

Walt Disney Parks and Resorts US, Inc.

TEST REPORT FOR

V1

Model: Radionode

Tested to The Following Standards:

FCC Part 15 Subpart C Section(s)

15.247

(DTS 2400-2483.5 MHz)

Report No.: 101978-15

Date of issue: January 23, 2019



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

Test Certificate # 803.02

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TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Report Authorization	3
Test Facility Information	4
Software Versions	4
Site Registration & Accreditation Information	4
Summary of Results	5
Modifications During Testing	5
Conditions During Testing	5
Equipment Under Test	6
General Product Information	6
FCC Part 15 Subpart C	7
15.247(d) Radiated Emissions & Band Edge	7
Supplemental Information	112
Measurement Uncertainty	112
Emissions Test Details	112

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

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REPORT PREPARED BY:

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Representative:
Synapse Product Development Inc. – Brian Piquette
Customer Reference Number: C-009498

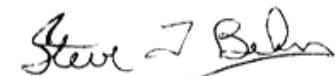
Project Number: 101978

DATE OF EQUIPMENT RECEIPT:
DATE(S) OF TESTING:

December 14, 2018
December 14-25, 2018 and January 1-3, 2019

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.11

Site Registration & Accreditation Information

Location	NIST CB #	TAIWAN	CANADA	FCC	JAPAN
Brea D, CA	US0060	SL2-IN-E-1146R	3082D-2	US1025	A-0147

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.247 (DTS)

Test Procedure	Description	Modifications	Results
15.247(a)(2)	6dB Bandwidth	NA	NP
15.247(b)(3)	Output Power	NA	NP
15.247(e)	Power Spectral Density	NA	NP
15.247(d)	RF Conducted Emissions & Band Edge	NA	NP
15.247(d)	Radiated Emissions & Band Edge	NA	Pass

NA = Not Applicable

NP = CKC Laboratories was not contracted to perform test.

ISO/IEC 17025 Decision Rule

The declaration of pass or fail herein is based upon assessment to the specification(s) listed above, including where applicable, assessment of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions

No modifications were made during testing.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions

None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
V1	Walt Disney Parks and Resorts US, Inc.	Radionode	E52

Support Equipment:

Device	Manufacturer	Model #	S/N
POE Power Supply	Netgear	UA3-8504240-011	NA
Gigabit Switch	Netgear	GS108PP	58617ADUA11A9
Laptop	HP	ProBook	SYNA0267

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Type of Wideband System:	BLE, DTS Proprietary
Operating Frequency Range:	2402-2480MHz, 2482MHz
Modulation Type(s):	BLE, DTS Proprietary
Maximum Duty Cycle:	98
Number of TX Chains:	2
Antenna Type(s) and Gain:	Antenna 1: PA2x2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz Antenna 2: MA510, 3.9dBi, integrated cable. Antenna 3: MA673, 4.1 dBi, integrated cable. Antenna 4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz
Beamforming Type:	NA
Antenna Connection Type:	External Connector
Nominal Input Voltage:	120/60 POE
Firmware / Software used for Test:	0.10.4-125

FCC Part 15 Subpart C

15.247(d) Radiated Emissions & Band Edge

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
 Customer: **Walt Disney Parks and Resorts US, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **101978** Date: 12/20/2018
 Test Type: **Radiated Scan** Time: 13:42:59
 Tested By: E. Wong Sequence#: 3
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.

FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: PA2x2

Frequency range of measurement = 9 kHz- 25 GHz.

9 kHz -150 kHz;RBW=200 Hz,VBW=200 Hz;150 kHz-30 MHz;RBW=9 kHz,VBW=9 kHz;30 MHz-1000 MHz;RBW=120 kHz,VBW=120 kHz,1000 MHz-25000MHz MHz;RBW=1 MHz,VBW=1 MHz.

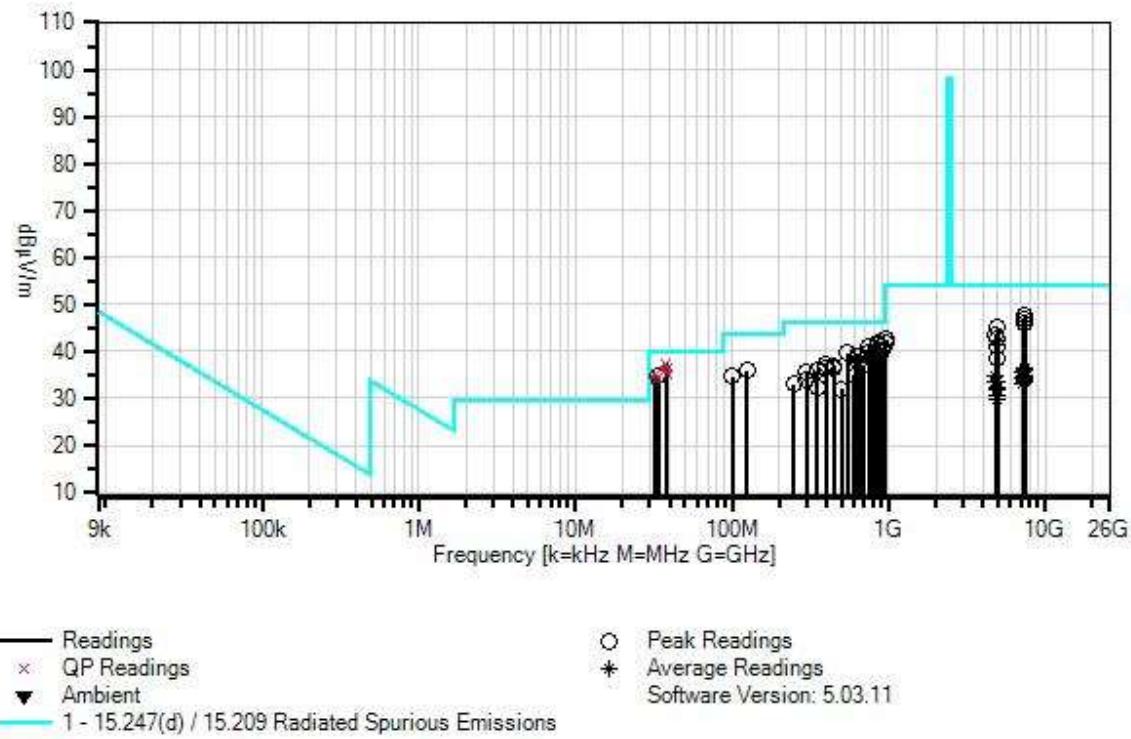
Test environment conditions:

Temperature: 17.3°C, Relative Humidity: 54%, Pressure: 100.8kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D
ANSI C63.10-2013

Walt Disney Parks and Resorts US, Inc. WO#: 101978 Sequence#: 3 Date: 12/20/2018
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T3	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T6	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T7	AN03385	High Pass Filter	11SH10- 3000/T10000- O/O	6/2/2017	6/2/2019
T8	AN01994	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T9	ANP05283	Attenuator	ATT-0218-06- NNN-02	4/5/2018	4/5/2020
T10	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/8/2018	1/8/2020
T11	AN00010	Preamp	8447D	2/19/2018	2/19/2020
T12	ANP06978	Cable	Sucoflex 104A	3/31/2018	3/31/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	AN01413	Horn Antenna-ANSI C63.5 (dB/m)	84125-80008	10/17/2018	10/17/2020
	AN03367	Horn Antenna-ANSI C63.5 Calibration	62-GH-62-25.	8/24/2017	8/24/2019

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11	T12					
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	38.075M	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	37.4	40.0	-2.6	Vert
	QP		+0.0	+0.6	+0.0	+14.2					R7_A1_PA2X2_BL
			+5.8	+0.6	-27.1	+0.0					E_LMH,R7_A1_P
											A2X2_DTS,
											R7_A1_PA2X2_BL
											E_L_L2
^	38.075M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	38.2	40.0	-1.8	Vert
			+0.0	+0.6	+0.0	+14.2					R7_A1_PA2X2_BL
			+5.8	+0.6	-27.1	+0.0					E_LMH,R7_A1_P
											A2X2_DTS,
											R7_A1_PA2X2_BL
											E_L_L2
3	950.012M	33.0	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	46.0	-3.5	Horiz
			+0.0	+3.4	+0.0	+24.0					R7_A1_PA2X2_BL
			+5.9	+3.3	-27.4	+0.3					E_LMH,R7_A1_P
											A2X2_DTS,
											R7_A1_PA2X2_BL
											E_L_L2

4	38.823M	42.7	+0.0	+0.0	+0.0	+0.0	+0.0	36.4	40.0	-3.6	Vert
	QP		+0.0	+0.6	+0.0	+13.8			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	38.823M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	36.9	40.0	-3.1	Vert
			+0.0	+0.6	+0.0	+13.8			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
6	37.820M	41.9	+0.0	+0.0	+0.0	+0.0	+0.0	36.1	40.0	-3.9	Vert
	QP		+0.0	+0.6	+0.0	+14.3			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	37.820M	42.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.7	40.0	-3.3	Vert
			+0.0	+0.6	+0.0	+14.3			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
8	850.004M	34.0	+0.0	+0.0	+0.0	+0.0	+0.0	41.8	46.0	-4.2	Horiz
			+0.0	+3.2	+0.0	+23.0			R7_A1_PA2X2_BL		
			+5.9	+3.0	-27.6	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
9	950.012M	32.2	+0.0	+0.0	+0.0	+0.0	+0.0	41.7	46.0	-4.3	Vert
			+0.0	+3.4	+0.0	+24.0			R7_A1_PA2X2_BL		
			+5.9	+3.3	-27.4	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
10	850.003M	33.7	+0.0	+0.0	+0.0	+0.0	+0.0	41.5	46.0	-4.5	Vert
			+0.0	+3.2	+0.0	+23.0			R7_A1_PA2X2_BL		
			+5.9	+3.0	-27.6	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
11	750.003M	35.5	+0.0	+0.0	+0.0	+0.0	+0.0	41.2	46.0	-4.8	Vert
			+0.0	+2.9	+0.0	+21.6			R7_A1_PA2X2_BL		
			+5.9	+2.8	-27.8	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		

12	38.565M	41.4	+0.0	+0.0	+0.0	+0.0	+0.0	35.2	40.0	-4.8	Vert
	QP		+0.0	+0.6	+0.0	+13.9			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	38.565M	42.9	+0.0	+0.0	+0.0	+0.0	+0.0	36.7	40.0	-3.3	Vert
			+0.0	+0.6	+0.0	+13.9			R7_A1_PA2X2_BL		
			+5.8	+0.6	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
14	32.306M	38.0	+0.0	+0.0	+0.0	+0.0	+0.0	35.0	40.0	-5.0	Vert
	QP		+0.0	+0.5	+0.0	+17.3			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	32.306M	38.4	+0.0	+0.0	+0.0	+0.0	+0.0	35.4	40.0	-4.6	Vert
			+0.0	+0.5	+0.0	+17.3			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
16	900.003M	32.6	+0.0	+0.0	+0.0	+0.0	+0.0	41.0	46.0	-5.0	Vert
			+0.0	+3.2	+0.0	+23.4			R7_A1_PA2X2_BL		
			+5.9	+3.1	-27.5	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
17	33.811M	38.7	+0.0	+0.0	+0.0	+0.0	+0.0	34.9	40.0	-5.1	Vert
			+0.0	+0.5	+0.0	+16.5			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
18	34.063M	38.2	+0.0	+0.0	+0.0	+0.0	+0.0	34.3	40.0	-5.7	Vert
	QP		+0.0	+0.5	+0.0	+16.4			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	34.063M	39.0	+0.0	+0.0	+0.0	+0.0	+0.0	35.1	40.0	-4.9	Vert
			+0.0	+0.5	+0.0	+16.4			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		

20	900.006M	31.6	+0.0	+0.0	+0.0	+0.0	+0.0	40.0	46.0	-6.0	Horiz
			+0.0	+3.2	+0.0	+23.4			R7_A1_PA2X2_BL		
			+5.9	+3.1	-27.5	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
21	750.003M	34.1	+0.0	+0.0	+0.0	+0.0	+0.0	39.8	46.0	-6.2	Horiz
			+0.0	+2.9	+0.0	+21.6			R7_A1_PA2X2_BL		
			+5.9	+2.8	-27.8	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
22	33.058M	37.2	+0.0	+0.0	+0.0	+0.0	+0.0	33.8	40.0	-6.2	Vert
QP			+0.0	+0.5	+0.0	+16.9			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
^	33.058M	38.1	+0.0	+0.0	+0.0	+0.0	+0.0	34.7	40.0	-5.3	Vert
			+0.0	+0.5	+0.0	+16.9			R7_A1_PA2X2_BL		
			+5.8	+0.5	-27.1	+0.0			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
24	800.000M	32.8	+0.0	+0.0	+0.0	+0.0	+0.0	39.7	46.0	-6.3	Horiz
			+0.0	+3.0	+0.0	+22.5			R7_A1_PA2X2_BL		
			+5.9	+2.9	-27.7	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
25	550.001M	37.5	+0.0	+0.0	+0.0	+0.0	+0.0	39.6	46.0	-6.4	Horiz
			+0.0	+2.5	+0.0	+19.2			R7_A1_PA2X2_BL		
			+5.8	+2.4	-28.0	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
26	7446.187M	31.6	+0.0	+36.4	+0.2	-39.7	+0.0	47.5	54.0	-6.5	Vert
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
27	624.999M	35.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.0	46.0	-7.0	Vert
			+0.0	+2.7	+0.0	+20.4			R7_A1_PA2X2_BL		
			+5.8	+2.5	-28.0	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
28	649.999M	35.1	+0.0	+0.0	+0.0	+0.0	+0.0	39.0	46.0	-7.0	Horiz
			+0.0	+2.7	+0.0	+20.5			R7_A1_PA2X2_BL		
			+5.8	+2.6	-28.0	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		

29	7320.575M	31.8	+0.0	+36.2	+0.1	-39.8	+0.0	46.9	54.0	-7.1	Vert
			+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_BLE_M_M		
30	124.999M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	43.5	-7.6	Vert
			+0.0	+1.1	+0.0	+11.6			R7_A1_PA2X2_BL		
			+5.8	+1.0	-26.9	+0.1			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
31	800.001M	31.4	+0.0	+0.0	+0.0	+0.0	+0.0	38.3	46.0	-7.7	Vert
			+0.0	+3.0	+0.0	+22.5			R7_A1_PA2X2_BL		
			+5.9	+2.9	-27.7	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
32	7320.765M	31.0	+0.0	+36.2	+0.1	-39.8	+0.0	46.1	54.0	-7.9	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_BLE_M_M		
33	7428.550M	30.1	+0.0	+36.4	+0.2	-39.7	+0.0	46.0	54.0	-8.0	Vert
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
34	650.004M	33.7	+0.0	+0.0	+0.0	+0.0	+0.0	37.6	46.0	-8.4	Vert
			+0.0	+2.7	+0.0	+20.5			R7_A1_PA2X2_BL		
			+5.8	+2.6	-28.0	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
35	400.003M	38.6	+0.0	+0.0	+0.0	+0.0	+0.0	37.4	46.0	-8.6	Vert
			+0.0	+2.1	+0.0	+16.0			R7_A1_PA2X2_BL		
			+5.8	+2.0	-27.3	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
36	100.001M	43.7	+0.0	+0.0	+0.0	+0.0	+0.0	34.6	43.5	-8.9	Vert
			+0.0	+1.0	+0.0	+10.1			R7_A1_PA2X2_BL		
			+5.8	+0.9	-27.0	+0.1			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
37	700.011M	32.6	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Horiz
			+0.0	+2.8	+0.0	+20.7			R7_A1_PA2X2_BL		
			+5.9	+2.7	-27.9	+0.3			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
38	4951.543M	35.9	+0.0	+33.5	+0.4	-39.6	+0.0	45.0	54.0	-9.0	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		

39	450.007M	37.1	+0.0	+0.0	+0.0	+0.0	+0.0	36.9	46.0	-9.1	Horiz
			+0.0	+2.2	+0.0	+17.1			R7_A1_PA2X2_BL		
			+5.8	+2.1	-27.6	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
40	449.993M	36.7	+0.0	+0.0	+0.0	+0.0	+0.0	36.5	46.0	-9.5	Vert
			+0.0	+2.2	+0.0	+17.1			R7_A1_PA2X2_BL		
			+5.8	+2.1	-27.6	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
41	400.003M	37.6	+0.0	+0.0	+0.0	+0.0	+0.0	36.4	46.0	-9.6	Horiz
			+0.0	+2.1	+0.0	+16.0			R7_A1_PA2X2_BL		
			+5.8	+2.0	-27.3	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
42	350.005M	38.2	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	46.0	-10.1	Horiz
			+0.0	+1.9	+0.0	+14.8			R7_A1_PA2X2_BL		
			+5.8	+1.8	-26.8	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
43	300.004M	39.5	+0.0	+0.0	+0.0	+0.0	+0.0	35.8	46.0	-10.2	Vert
			+0.0	+1.8	+0.0	+13.4			R7_A1_PA2X2_BL		
			+5.8	+1.6	-26.5	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
44	4803.600M	35.5	+0.0	+33.2	+0.4	-39.8	+0.0	43.7	54.0	-10.3	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
45	4952.557M	33.7	+0.0	+33.5	+0.4	-39.6	+0.0	42.8	54.0	-11.2	Vert
			+6.1	+8.4	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
46	600.006M	31.5	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	46.0	-11.2	Vert
			+0.0	+2.6	+0.0	+20.3			R7_A1_PA2X2_BL		
			+5.8	+2.4	-28.0	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
47	4880.566M	34.3	+0.0	+33.2	+0.4	-39.7	+0.0	42.8	54.0	-11.2	Vert
			+6.1	+8.2	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_BLE_M_M		
48	4964.293M	33.4	+0.0	+33.5	+0.4	-39.6	+0.0	42.5	54.0	-11.5	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		

49	300.002M	37.6	+0.0	+0.0	+0.0	+0.0	+0.0	33.9	46.0	-12.1	Horiz
			+0.0	+1.8	+0.0	+13.4			R7_A1_PA2X2_BL		
			+5.8	+1.6	-26.5	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
50	4959.483M	32.0	+0.0	+33.5	+0.4	-39.6	+0.0	41.1	54.0	-12.9	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
51	250.007M	38.2	+0.0	+0.0	+0.0	+0.0	+0.0	32.9	46.0	-13.1	Vert
			+0.0	+1.6	+0.0	+12.2			R7_A1_PA2X2_BL		
			+5.8	+1.5	-26.5	+0.1			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
52	350.008M	34.4	+0.0	+0.0	+0.0	+0.0	+0.0	32.1	46.0	-13.9	Vert
			+0.0	+1.9	+0.0	+14.8			R7_A1_PA2X2_BL		
			+5.8	+1.8	-26.8	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
53	500.002M	31.2	+0.0	+0.0	+0.0	+0.0	+0.0	31.9	46.0	-14.1	Vert
			+0.0	+2.4	+0.0	+18.0			R7_A1_PA2X2_BL		
			+5.8	+2.2	-27.9	+0.2			E_LMH,R7_A1_P		
									A2X2_DTS,		
									R7_A1_PA2X2_BL		
									E_L_L2		
54	4964.297M	29.5	+0.0	+33.5	+0.4	-39.6	+0.0	38.6	54.0	-15.4	Vert
			+6.1	+8.4	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
55	7320.467M	21.2	+0.0	+36.2	+0.1	-39.8	+0.0	36.3	54.0	-17.7	Horiz
Ave			+7.6	+10.8	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	7320.467M	35.1	+0.0	+36.2	+0.1	-39.8	+0.0	50.2	54.0	-3.8	Horiz
			+7.6	+10.8	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
57	7427.377M	20.4	+0.0	+36.4	+0.2	-39.7	+0.0	36.3	54.0	-17.7	Horiz
Ave			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
^	7427.377M	33.2	+0.0	+36.4	+0.2	-39.7	+0.0	49.1	54.0	-4.9	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
59	7446.000M	20.3	+0.0	+36.4	+0.2	-39.7	+0.0	36.2	54.0	-17.8	Horiz
Ave			+7.7	+11.1	+0.2	+0.0			R7_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS		
60	7440.000M	20.3	+0.0	+36.4	+0.2	-39.7	+0.0	36.2	54.0	-17.8	Horiz
Ave			+7.7	+11.1	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		

61	7445.227M	20.2	+0.0	+36.4	+0.2	-39.7	+0.0	36.1	54.0	-17.9	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS-X		
^	7445.227M	32.2	+0.0	+36.4	+0.2	-39.7	+0.0	48.1	54.0	-5.9	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS-X		
63	7206.917M	20.8	+0.0	+35.8	+0.1	-39.6	+0.0	35.5	54.0	-18.5	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
64	7439.350M	18.9	+0.0	+36.4	+0.2	-39.7	+0.0	34.8	54.0	-19.2	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	7439.350M	31.3	+0.0	+36.4	+0.2	-39.7	+0.0	47.2	54.0	-6.8	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
66	4804.617M	26.4	+0.0	+33.2	+0.4	-39.8	+0.0	34.6	54.0	-19.4	Horiz
	Ave		+6.1	+8.0	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
67	7440.550M	18.7	+0.0	+36.4	+0.2	-39.7	+0.0	34.6	54.0	-19.4	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	7440.550M	31.8	+0.0	+36.4	+0.2	-39.7	+0.0	47.7	54.0	-6.3	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
69	7445.600M	18.6	+0.0	+36.4	+0.2	-39.7	+0.0	34.5	54.0	-19.5	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	7445.600M	32.4	+0.0	+36.4	+0.2	-39.7	+0.0	48.3	54.0	-5.7	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	7445.517M	29.7	+0.0	+36.4	+0.2	-39.7	+0.0	45.6	54.0	-8.4	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_DTS_BLE_H		
									2		
72	7206.800M	19.8	+0.0	+35.8	+0.1	-39.6	+0.0	34.5	54.0	-19.5	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
73	7320.000M	19.4	+0.0	+36.2	+0.1	-39.8	+0.0	34.5	54.0	-19.5	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
74	7319.950M	19.1	+0.0	+36.2	+0.1	-39.8	+0.0	34.2	54.0	-19.8	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
75	7440.000M	18.3	+0.0	+36.4	+0.2	-39.7	+0.0	34.2	54.0	-19.8	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	7440.000M	32.1	+0.0	+36.4	+0.2	-39.7	+0.0	48.0	54.0	-6.0	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	7440.000M	31.3	+0.0	+36.4	+0.2	-39.7	+0.0	47.2	54.0	-6.8	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		

78	7206.850M	19.5	+0.0	+35.8	+0.1	-39.6	+0.0	34.2	54.0	-19.8	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	7206.917M	34.1	+0.0	+35.8	+0.1	-39.6	+0.0	48.8	54.0	-5.2	Horiz
			+7.5	+10.7	+0.2	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	7206.800M	33.0	+0.0	+35.8	+0.1	-39.6	+0.0	47.7	54.0	-6.3	Horiz
			+7.5	+10.7	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	7206.850M	32.8	+0.0	+35.8	+0.1	-39.6	+0.0	47.5	54.0	-6.5	Horiz
			+7.5	+10.7	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
82	7446.000M	18.2	+0.0	+36.4	+0.2	-39.7	+0.0	34.1	54.0	-19.9	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	7446.000M	34.4	+0.0	+36.4	+0.2	-39.7	+0.0	50.3	54.0	-3.7	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.000M	32.0	+0.0	+36.4	+0.2	-39.7	+0.0	47.9	54.0	-6.1	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
85	7320.000M	18.5	+0.0	+36.2	+0.1	-39.8	+0.0	33.6	54.0	-20.4	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	7320.000M	33.5	+0.0	+36.2	+0.1	-39.8	+0.0	48.6	54.0	-5.4	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	7319.950M	32.6	+0.0	+36.2	+0.1	-39.8	+0.0	47.7	54.0	-6.3	Horiz
			+7.6	+10.8	+0.2	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	7320.000M	32.5	+0.0	+36.2	+0.1	-39.8	+0.0	47.6	54.0	-6.4	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
89	4964.000M	24.5	+0.0	+33.5	+0.4	-39.6	+0.0	33.6	54.0	-20.4	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS-X		
^	4964.000M	37.0	+0.0	+33.5	+0.4	-39.6	+0.0	46.1	54.0	-7.9	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS-X		
^	4964.000M	34.8	+0.0	+33.5	+0.4	-39.6	+0.0	43.9	54.0	-10.1	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4964.000M	34.7	+0.0	+33.5	+0.4	-39.6	+0.0	43.8	54.0	-10.2	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		

93	4960.000M	24.3	+0.0	+33.5	+0.4	-39.6	+0.0	33.4	54.0	-20.6	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	4960.000M	37.6	+0.0	+33.5	+0.4	-39.6	+0.0	46.7	54.0	-7.3	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	4960.000M	33.9	+0.0	+33.5	+0.4	-39.6	+0.0	43.0	54.0	-11.0	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
96	4804.567M	25.2	+0.0	+33.2	+0.4	-39.8	+0.0	33.4	54.0	-20.6	Horiz
	Ave		+6.1	+8.0	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	4804.617M	40.0	+0.0	+33.2	+0.4	-39.8	+0.0	48.2	54.0	-5.8	Horiz
			+6.1	+8.0	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	4804.567M	38.5	+0.0	+33.2	+0.4	-39.8	+0.0	46.7	54.0	-7.3	Horiz
			+6.1	+8.0	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	4804.533M	34.6	+0.0	+33.2	+0.4	-39.8	+0.0	42.8	54.0	-11.2	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
100	7205.400M	18.6	+0.0	+35.8	+0.1	-39.6	+0.0	33.3	54.0	-20.7	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
^	7205.400M	32.1	+0.0	+35.8	+0.1	-39.6	+0.0	46.8	54.0	-7.2	Horiz
			+7.5	+10.7	+0.2	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_L		
102	4879.967M	23.8	+0.0	+33.2	+0.4	-39.7	+0.0	32.3	54.0	-21.7	Horiz
	Ave		+6.1	+8.2	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	4879.967M	36.0	+0.0	+33.2	+0.4	-39.7	+0.0	44.5	54.0	-9.5	Horiz
			+6.1	+8.2	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	4880.000M	35.1	+0.0	+33.2	+0.4	-39.7	+0.0	43.6	54.0	-10.4	Horiz
			+6.1	+8.2	+0.3	+0.0			R7_A1_PA2x2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	4880.000M	34.2	+0.0	+33.2	+0.4	-39.7	+0.0	42.7	54.0	-11.3	Horiz
			+6.1	+8.2	+0.3	+0.0			R7_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
106	4880.467M	23.5	+0.0	+33.2	+0.4	-39.7	+0.0	32.0	54.0	-22.0	Horiz
	Ave		+6.1	+8.2	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	4880.467M	36.9	+0.0	+33.2	+0.4	-39.7	+0.0	45.4	54.0	-8.6	Horiz
			+6.1	+8.2	+0.3	+0.0			R8_A2_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_M		
^	4880.553M	35.9	+0.0	+33.2	+0.4	-39.7	+0.0	44.4	54.0	-9.6	Horiz
			+6.1	+8.2	+0.3	+0.0			R7_A1_R8_A2_PA		
			+0.0	+0.0	+0.0	+0.0			2X2_BLE_M_M		

109	4960.367M	21.7	+0.0	+33.5	+0.4	-39.6	+0.0	30.8	54.0	-23.2	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
^	4960.367M	35.6	+0.0	+33.5	+0.4	-39.6	+0.0	44.7	54.0	-9.3	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A1_PA2X2_BL		
			+0.0	+0.0	+0.0	+0.0			E_H		
111	4963.733M	21.6	+0.0	+33.5	+0.4	-39.6	+0.0	30.7	54.0	-23.3	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	4963.733M	35.9	+0.0	+33.5	+0.4	-39.6	+0.0	45.0	54.0	-9.0	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A1_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
113	4963.733M	20.7	+0.0	+33.5	+0.4	-39.6	+0.0	29.8	54.0	-24.2	Vert
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	4963.733M	33.5	+0.0	+33.5	+0.4	-39.6	+0.0	42.6	54.0	-11.4	Vert
			+6.1	+8.4	+0.3	+0.0			R8_A2_PA2X2_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
Customer: **Walt Disney Parks and Resorts US, Inc.**
Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
Work Order #: **101978** Date: 12/14/2018
Test Type: **Radiated Scan** Time: 11:39:11
Tested By: E. Wong Sequence#: 2
Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: MA510

Frequency range of measurement = 9 kHz- 25 GHz.

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz MHz; RBW=1 MHz, VBW=1 MHz.

Test environment conditions:

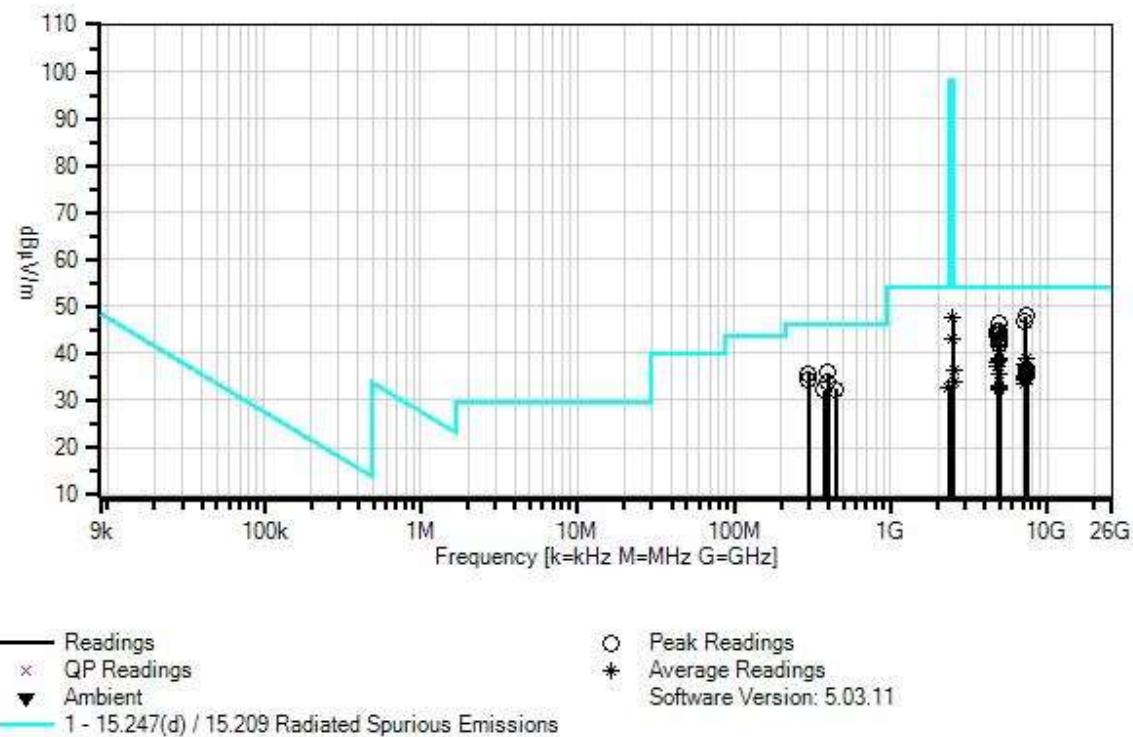
Temperature: 17.3°C, Relative Humidity: 54%, Pressure: 100.8kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Walt Disney Parks and Resorts US, Inc. WO#: 101978 Sequence#: 2 Date: 12/14/2018
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T3	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T6	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T7	AN03385	High Pass Filter	11SH10- 3000/T10000- O/O	6/2/2017	6/2/2019
T8	AN01994	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T9	ANP05283	Attenuator	ATT-0218-06- NNN-02	4/5/2018	4/5/2020
T10	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/8/2018	1/8/2020
T11	AN00010	Preamp	8447D	2/19/2018	2/19/2020
T12	ANP06978	Cable	Sucoflex 104A	3/31/2018	3/31/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	AN01413	Horn Antenna-ANSI C63.5 (dB/m)	84125-80008	10/17/2018	10/17/2020
	AN03367	Horn Antenna-ANSI C63.5 Calibration	62-GH-62-25.	8/24/2017	8/24/2019

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11	T12					
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	7320.033M	32.8	+0.0	+36.2	+0.1	-39.8	+0.0	47.9	54.0	-6.1	Vert
			+7.6	+10.8	+0.2	+0.0					R7_A1_MA510_B
			+0.0	+0.0	+0.0	+0.0					LE_M
2	2487.970M Ave	49.5	+0.0	+28.5	+0.3	-40.2	+0.0	47.7	54.0	-6.3	Horiz
			+4.1	+5.5	+0.0	+0.0					R7_A1_R8_A2_M
			+0.0	+0.0	+0.0	+0.0					A510_BLE_H2_DT S
3	7206.850M	32.3	+0.0	+35.8	+0.1	-39.6	+0.0	47.0	54.0	-7.0	Horiz
			+7.5	+10.7	+0.2	+0.0					R7_A1_MA510_B
			+0.0	+0.0	+0.0	+0.0					LE_L
4	4952.050M	37.4	+0.0	+33.5	+0.4	-39.6	+0.0	46.5	54.0	-7.5	Horiz
			+6.1	+8.4	+0.3	+0.0					R7_A1_R8_A2_M
			+0.0	+0.0	+0.0	+0.0					A510_DTS_BLE_H2
5	4952.000M	35.8	+0.0	+33.5	+0.4	-39.6	+0.0	44.9	54.0	-9.1	Horiz
			+6.1	+8.4	+0.3	+0.0					R7_A1_R8_A2_M
			+0.0	+0.0	+0.0	+0.0					A510_BLE_H2_DT S

6	4811.930M	36.4	+0.0	+33.2	+0.4	-39.8	+0.0	44.6	54.0	-9.4	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
7	4960.250M	34.9	+0.0	+33.5	+0.4	-39.6	+0.0	44.0	54.0	-10.0	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
8	4804.167M	35.7	+0.0	+33.2	+0.4	-39.8	+0.0	43.9	54.0	-10.1	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
9	400.000M	37.1	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	46.0	-10.1	Vert
			+0.0	+2.1	+0.0	+16.0			R8_A2_MA510_B		
			+5.8	+2.0	-27.3	+0.2			LE_H		
10	300.000M	39.4	+0.0	+0.0	+0.0	+0.0	+0.0	35.7	46.0	-10.3	Horiz
			+0.0	+1.8	+0.0	+13.4			R8_A2_MA510_B		
			+5.8	+1.6	-26.5	+0.2			LE_H		
11	2487.953M	45.0	+0.0	+28.5	+0.3	-40.2	+0.0	43.2	54.0	-10.8	Horiz
Ave			+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_H2		
^	2487.970M	65.5	+0.0	+28.5	+0.3	-40.2	+0.0	63.7	54.0	+9.7	Horiz
			+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H2_DT_S		
^	2487.953M	62.9	+0.0	+28.5	+0.3	-40.2	+0.0	61.1	54.0	+7.1	Horiz
			+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_H2		
14	4964.680M	34.0	+0.0	+33.5	+0.4	-39.6	+0.0	43.1	54.0	-10.9	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS		
15	4951.333M	33.7	+0.0	+33.5	+0.4	-39.6	+0.0	42.8	54.0	-11.2	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H_H2		
16	4964.000M	33.4	+0.0	+33.5	+0.4	-39.6	+0.0	42.5	54.0	-11.5	Horiz
Ave			+6.1	+8.4	+0.3	+0.0			R8_A1_MA510_DTS_X		
			+0.0	+0.0	+0.0	+0.0					
^	4964.000M	44.0	+0.0	+33.5	+0.4	-39.6	+0.0	53.1	54.0	-0.9	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A1_MA510_DTS_X		
			+0.0	+0.0	+0.0	+0.0					
18	300.003M	38.2	+0.0	+0.0	+0.0	+0.0	+0.0	34.5	46.0	-11.5	Vert
			+0.0	+1.8	+0.0	+13.4			R8_A2_MA510_B		
			+5.8	+1.6	-26.5	+0.2			LE_H		
19	399.920M	35.3	+0.0	+0.0	+0.0	+0.0	+0.0	34.1	46.0	-11.9	Horiz
			+0.0	+2.1	+0.0	+16.0			R8_A2_MA510_B		
			+5.8	+2.0	-27.3	+0.2			LE_H		
20	4879.983M	33.2	+0.0	+33.2	+0.4	-39.7	+0.0	41.7	54.0	-12.3	Vert
			+6.1	+8.2	+0.3	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
21	449.080M	32.6	+0.0	+0.0	+0.0	+0.0	+0.0	32.3	46.0	-13.7	Horiz
			+0.0	+2.2	+0.0	+17.0			R8_A2_MA510_B		
			+5.8	+2.1	-27.6	+0.2			LE_H		

22	374.970M	33.9	+0.0	+0.0	+0.0	+0.0	+0.0	32.1	46.0	-13.9	Vert
			+0.0	+2.0	+0.0	+15.4			R8_A2_MA510_B		
			+5.8	+1.9	-27.1	+0.2			LE_H		
23	4880.000M	30.6	+0.0	+33.2	+0.4	-39.7	+0.0	39.1	54.0	-14.9	Horiz
	Ave		+6.1	+8.2	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_M		
^	4880.000M	42.4	+0.0	+33.2	+0.4	-39.7	+0.0	50.9	54.0	-3.1	Horiz
			+6.1	+8.2	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_M		
^	4879.983M	35.4	+0.0	+33.2	+0.4	-39.7	+0.0	43.9	54.0	-10.1	Horiz
			+6.1	+8.2	+0.3	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4880.000M	35.1	+0.0	+33.2	+0.4	-39.7	+0.0	43.6	54.0	-10.4	Horiz
			+6.1	+8.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_M_M		
27	7445.333M	23.2	+0.0	+36.4	+0.2	-39.7	+0.0	39.1	54.0	-14.9	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H2_DT		
									S		
^	7445.333M	36.0	+0.0	+36.4	+0.2	-39.7	+0.0	51.9	54.0	-2.1	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H2_DT		
									S		
29	7319.600M	23.9	+0.0	+36.2	+0.1	-39.8	+0.0	39.0	54.0	-15.0	Vert
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_M_M		
^	7319.600M	35.5	+0.0	+36.2	+0.1	-39.8	+0.0	50.6	54.0	-3.4	Vert
			+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_M_M		
31	4959.483M	29.7	+0.0	+33.5	+0.4	-39.6	+0.0	38.8	54.0	-15.2	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.483M	43.6	+0.0	+33.5	+0.4	-39.6	+0.0	52.7	54.0	-1.3	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
33	7320.000M	23.7	+0.0	+36.2	+0.1	-39.8	+0.0	38.8	54.0	-15.2	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_M_M		
^	7320.000M	38.1	+0.0	+36.2	+0.1	-39.8	+0.0	53.2	54.0	-0.8	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_M_M		
35	4964.367M	29.4	+0.0	+33.5	+0.4	-39.6	+0.0	38.5	54.0	-15.5	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS X		

36	4803.700M	29.8	+0.0	+33.2	+0.4	-39.8	+0.0	38.0	54.0	-16.0	Horiz
	Ave		+6.1	+8.0	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.700M	42.4	+0.0	+33.2	+0.4	-39.8	+0.0	50.6	54.0	-3.4	Horiz
			+6.1	+8.0	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.770M	38.1	+0.0	+33.2	+0.4	-39.8	+0.0	46.3	54.0	-7.7	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
39	7218.500M	22.8	+0.0	+35.9	+0.1	-39.6	+0.0	37.6	54.0	-16.4	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
^	7218.500M	36.1	+0.0	+35.9	+0.1	-39.6	+0.0	50.9	54.0	-3.1	Horiz
			+7.5	+10.7	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
41	7439.717M	21.4	+0.0	+36.4	+0.2	-39.7	+0.0	37.3	54.0	-16.7	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.717M	34.9	+0.0	+36.4	+0.2	-39.7	+0.0	50.8	54.0	-3.2	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
43	4804.483M	28.9	+0.0	+33.2	+0.4	-39.8	+0.0	37.1	54.0	-16.9	Horiz
	Ave		+6.1	+8.0	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_L		
^	4804.483M	42.4	+0.0	+33.2	+0.4	-39.8	+0.0	50.6	54.0	-3.4	Horiz
			+6.1	+8.0	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_L		
^	4804.417M	34.7	+0.0	+33.2	+0.4	-39.8	+0.0	42.9	54.0	-11.1	Horiz
			+6.1	+8.0	+0.3	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
46	7319.300M	21.6	+0.0	+36.2	+0.1	-39.8	+0.0	36.7	54.0	-17.3	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_M		
^	7319.300M	36.2	+0.0	+36.2	+0.1	-39.8	+0.0	51.3	54.0	-2.7	Horiz
			+7.6	+10.8	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_M		
48	2520.620M	38.4	+0.0	+28.5	+0.3	-40.2	+0.0	36.6	54.0	-17.4	Horiz
	Ave		+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_		
									H2		
^	2520.620M	51.0	+0.0	+28.5	+0.3	-40.2	+0.0	49.2	54.0	-4.8	Horiz
			+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_		
									H2		
50	7320.600M	21.4	+0.0	+36.2	+0.1	-39.8	+0.0	36.5	54.0	-17.5	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.600M	34.9	+0.0	+36.2	+0.1	-39.8	+0.0	50.0	54.0	-4.0	Horiz
			+7.6	+10.8	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		

52	7446.550M	20.2	+0.0	+36.4	+0.2	-39.7	+0.0	36.1	54.0	-17.9	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
53	7446.000M	20.1	+0.0	+36.4	+0.2	-39.7	+0.0	36.0	54.0	-18.0	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			DTS_X		
^	7446.000M	34.6	+0.0	+36.4	+0.2	-39.7	+0.0	50.5	54.0	-3.5	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			DTS_X		
55	7439.500M	20.0	+0.0	+36.4	+0.2	-39.7	+0.0	35.9	54.0	-18.1	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.500M	33.2	+0.0	+36.4	+0.2	-39.7	+0.0	49.1	54.0	-4.9	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
57	7428.953M	20.0	+0.0	+36.4	+0.2	-39.7	+0.0	35.9	54.0	-18.1	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_		
									H2		
^	7428.953M	34.9	+0.0	+36.4	+0.2	-39.7	+0.0	50.8	54.0	-3.2	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_DTS_BLE_		
									H2		
59	7440.683M	20.0	+0.0	+36.4	+0.2	-39.7	+0.0	35.9	54.0	-18.1	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.683M	32.8	+0.0	+36.4	+0.2	-39.7	+0.0	48.7	54.0	-5.3	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
61	7320.250M	20.6	+0.0	+36.2	+0.1	-39.8	+0.0	35.7	54.0	-18.3	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.250M	34.4	+0.0	+36.2	+0.1	-39.8	+0.0	49.5	54.0	-4.5	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
63	4960.000M	26.5	+0.0	+33.5	+0.4	-39.6	+0.0	35.6	54.0	-18.4	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_H		
^	4960.000M	38.3	+0.0	+33.5	+0.4	-39.6	+0.0	47.4	54.0	-6.6	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_H		
65	7445.233M	19.6	+0.0	+36.4	+0.2	-39.7	+0.0	35.5	54.0	-18.5	Vert
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7445.233M	33.8	+0.0	+36.4	+0.2	-39.7	+0.0	49.7	54.0	-4.3	Vert
			+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
67	7440.000M	19.5	+0.0	+36.4	+0.2	-39.7	+0.0	35.4	54.0	-18.6	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_H		

68	7440.000M	19.3	+0.0	+36.4	+0.2	-39.7	+0.0	35.2	54.0	-18.8	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H_H2		
^	7440.000M	33.6	+0.0	+36.4	+0.2	-39.7	+0.0	49.5	54.0	-4.5	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_H		
^	7440.000M	33.1	+0.0	+36.4	+0.2	-39.7	+0.0	49.0	54.0	-5.0	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H_H2		
71	7206.500M	20.3	+0.0	+35.8	+0.1	-39.6	+0.0	35.0	54.0	-19.0	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
72	7206.500M	20.2	+0.0	+35.8	+0.1	-39.6	+0.0	34.9	54.0	-19.1	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
73	7446.550M	18.8	+0.0	+36.4	+0.2	-39.7	+0.0	34.7	54.0	-19.3	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	7446.550M	34.9	+0.0	+36.4	+0.2	-39.7	+0.0	50.8	54.0	-3.2	Horiz
			+7.7	+11.1	+0.2	+0.0			R8_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
^	7446.550M	32.3	+0.0	+36.4	+0.2	-39.7	+0.0	48.2	54.0	-5.8	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS_X		
76	7445.560M	18.8	+0.0	+36.4	+0.2	-39.7	+0.0	34.7	54.0	-19.3	Horiz
	Ave		+7.7	+11.1	+0.2	+0.0			R7_A1_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.560M	32.7	+0.0	+36.4	+0.2	-39.7	+0.0	48.6	54.0	-5.4	Horiz
			+7.7	+11.1	+0.2	+0.0			R7_A1_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS		
78	7319.667M	19.5	+0.0	+36.2	+0.1	-39.8	+0.0	34.6	54.0	-19.4	Horiz
	Ave		+7.6	+10.8	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.667M	34.0	+0.0	+36.2	+0.1	-39.8	+0.0	49.1	54.0	-4.9	Horiz
			+7.6	+10.8	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
80	7206.483M	19.5	+0.0	+35.8	+0.1	-39.6	+0.0	34.2	54.0	-19.8	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_L		
^	7206.500M	35.7	+0.0	+35.8	+0.1	-39.6	+0.0	50.4	54.0	-3.6	Horiz
			+7.5	+10.7	+0.2	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.500M	33.3	+0.0	+35.8	+0.1	-39.6	+0.0	48.0	54.0	-6.0	Horiz
			+7.5	+10.7	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
^	7206.483M	32.4	+0.0	+35.8	+0.1	-39.6	+0.0	47.1	54.0	-6.9	Horiz
			+7.5	+10.7	+0.2	+0.0			R8_A1_MA510_		
			+0.0	+0.0	+0.0	+0.0			BLE_L		

84	2517.800M	35.7	+0.0	+28.5	+0.3	-40.2	+0.0	33.9	54.0	-20.1	Horiz
	Ave		+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H_H2		
^	2517.800M	48.2	+0.0	+28.5	+0.3	-40.2	+0.0	46.4	54.0	-7.6	Horiz
			+4.1	+5.5	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_H_H2		
86	7206.950M	18.9	+0.0	+35.8	+0.1	-39.6	+0.0	33.6	54.0	-20.4	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
87	7206.250M	18.7	+0.0	+35.8	+0.1	-39.6	+0.0	33.4	54.0	-20.6	Horiz
	Ave		+7.5	+10.7	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.250M	32.4	+0.0	+35.8	+0.1	-39.6	+0.0	47.1	54.0	-6.9	Horiz
			+7.5	+10.7	+0.2	+0.0			R7_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
89	4879.633M	24.5	+0.0	+33.2	+0.4	-39.7	+0.0	33.0	54.0	-21.0	Horiz
	Ave		+6.1	+8.2	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4879.633M	38.4	+0.0	+33.2	+0.4	-39.7	+0.0	46.9	54.0	-7.1	Horiz
			+6.1	+8.2	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
91	4963.517M	23.4	+0.0	+33.5	+0.4	-39.6	+0.0	32.5	54.0	-21.5	Vert
	Ave		+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4963.517M	37.2	+0.0	+33.5	+0.4	-39.6	+0.0	46.3	54.0	-7.7	Vert
			+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
93	2364.400M	34.3	+0.0	+28.4	+0.3	-39.9	+0.0	32.5	54.0	-21.5	Horiz
	Ave		+4.0	+5.4	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
^	2364.400M	49.9	+0.0	+28.4	+0.3	-39.9	+0.0	48.1	54.0	-5.9	Horiz
			+4.0	+5.4	+0.0	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A510_BLE_L_L2		
95	4964.367M	23.3	+0.0	+33.5	+0.4	-39.6	+0.0	32.4	54.0	-21.6	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R7_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS X		
^	4964.367M	42.4	+0.0	+33.5	+0.4	-39.6	+0.0	51.5	54.0	-2.5	Horiz
			+6.1	+8.4	+0.3	+0.0			R8_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS X		
^	4964.367M	36.7	+0.0	+33.5	+0.4	-39.6	+0.0	45.8	54.0	-8.2	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A2_MA510_D		
			+0.0	+0.0	+0.0	+0.0			TS X		
98	4959.750M	23.1	+0.0	+33.5	+0.4	-39.6	+0.0	32.2	54.0	-21.8	Horiz
	Ave		+6.1	+8.4	+0.3	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.750M	36.6	+0.0	+33.5	+0.4	-39.6	+0.0	45.7	54.0	-8.3	Horiz
			+6.1	+8.4	+0.3	+0.0			R7_A1_MA510_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
Customer: **Walt Disney Parks and Resorts US, Inc.**
Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
Work Order #: **101978** Date: 12/20/2018
Test Type: **Radiated Scan** Time: 13:35:55
Tested By: S. Yamamoto Sequence#: 4
Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: MA673

Frequency range of measurement = 9 kHz- 25 GHz.

9 kHz -150 kHz;RBW=200 Hz,VBW=200 Hz;150 kHz-30 MHz;RBW=9 kHz,VBW=9 kHz;30 MHz-1000 MHz;RBW=120 kHz,VBW=120 kHz,1000 MHz-25000MHz MHz;RBW=1 MHz,VBW=1 MHz.

Test environment conditions:

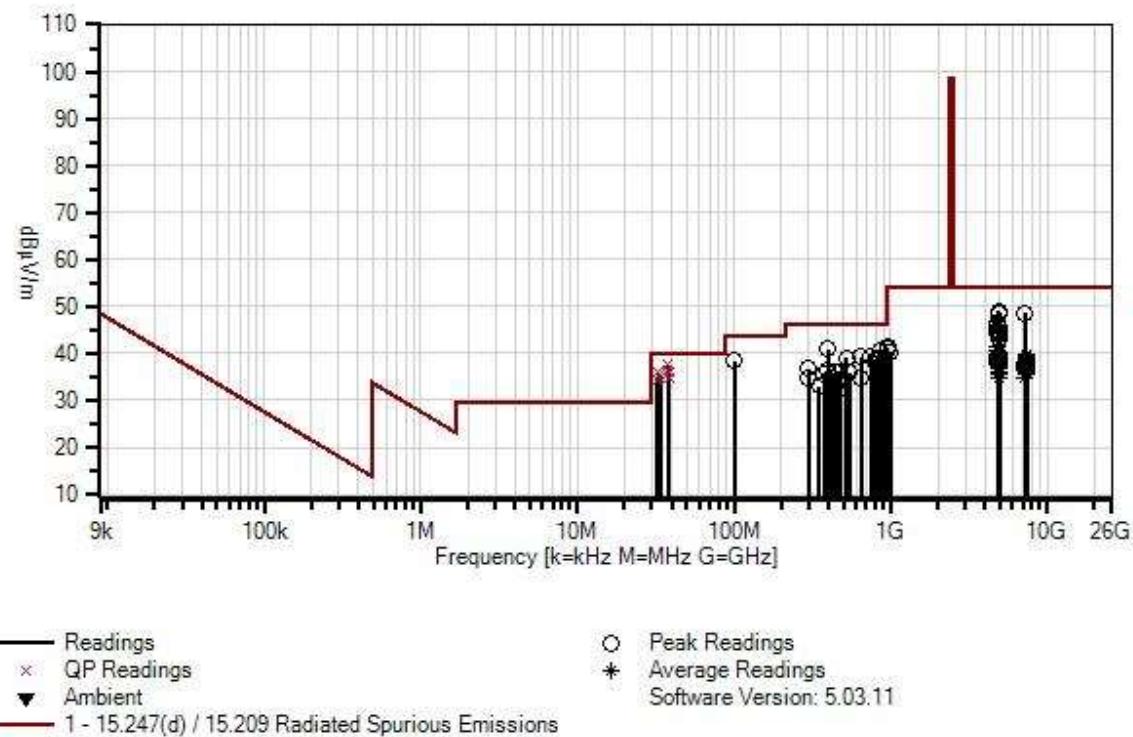
Temperature: 18°C, Relative Humidity: 55%, Pressure: 99kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Walt Disney Parks and Resorts US, Inc. WO#: 101978 Sequence#: 4 Date: 12/20/2018
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Vert



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T3	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T6	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T7	AN03385	High Pass Filter	11SH10- 3000/T10000- O/O	6/2/2017	6/2/2019
T8	AN01994	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T9	ANP05283	Attenuator	ATT-0218-06- NNN-02	4/5/2018	4/5/2020
T10	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/8/2018	1/8/2020
T11	AN00010	Preamp	8447D	2/19/2018	2/19/2020
T12	ANP06978	Cable	Sucoflex 104A	3/31/2018	3/31/2020
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	AN01413	Horn Antenna-ANSI C63.5 (dB/m)	84125-80008	10/17/2018	10/17/2020
	AN03367	Horn Antenna-ANSI C63.5 Calibration	62-GH-62-25.	8/24/2017	8/24/2019

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11	T12					
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	38.065M	43.4	+0.0	+0.6	+0.0	+0.0	+0.0	37.5	40.0	-2.5	Vert
	QP		+0.0	+0.0	+0.0	+14.2				R7_A1_MA673_B	
			+5.8	+0.6	-27.1	+0.0				LE_LMH,R7_A1_	
										MA673_DTS	
^	38.065M	44.1	+0.0	+0.6	+0.0	+0.0	+0.0	38.2	40.0	-1.8	Vert
			+0.0	+0.0	+0.0	+14.2				R7_A1_MA673_B	
			+5.8	+0.6	-27.1	+0.0				LE_LMH,R7_A1_	
										MA673_DTS	
3	37.808M	42.4	+0.0	+0.6	+0.0	+0.0	+0.0	36.6	40.0	-3.4	Vert
	QP		+0.0	+0.0	+0.0	+14.3				R7_A1_MA673_B	
			+5.8	+0.6	-27.1	+0.0				LE_LMH,R7_A1_	
										MA673_DTS	
^	37.808M	42.6	+0.0	+0.6	+0.0	+0.0	+0.0	36.8	40.0	-3.2	Vert
			+0.0	+0.0	+0.0	+14.3				R7_A1_MA673_B	
			+5.8	+0.6	-27.1	+0.0				LE_LMH,R7_A1_	
										MA673_DTS	

5	38.800M	42.5	+0.0	+0.6	+0.0	+0.0	+0.0	36.2	40.0	-3.8	Vert
	QP		+0.0	+0.0	+0.0	+13.8			R7_A1_MA673_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
^	38.800M	42.9	+0.0	+0.6	+0.0	+0.0	+0.0	36.6	40.0	-3.4	Vert
			+0.0	+0.0	+0.0	+13.8			R7_A1_MA673_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
7	33.052M	39.3	+0.0	+0.5	+0.0	+0.0	+0.0	35.9	40.0	-4.1	Vert
	QP		+0.0	+0.0	+0.0	+16.9			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
^	33.052M	40.3	+0.0	+0.5	+0.0	+0.0	+0.0	36.9	40.0	-3.1	Vert
			+0.0	+0.0	+0.0	+16.9			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
9	33.792M	39.2	+0.0	+0.5	+0.0	+0.0	+0.0	35.4	40.0	-4.6	Vert
	QP		+0.0	+0.0	+0.0	+16.5			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
10	33.792M	39.2	+0.0	+0.5	+0.0	+0.0	+0.0	35.4	40.0	-4.6	Vert
	QP		+0.0	+0.0	+0.0	+16.5			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
^	33.792M	40.3	+0.0	+0.5	+0.0	+0.0	+0.0	36.5	40.0	-3.5	Vert
			+0.0	+0.0	+0.0	+16.5			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
									MA673_DTS		
12	949.977M	31.8	+0.0	+3.4	+0.0	+0.0	+0.0	41.3	46.0	-4.7	Horiz
			+0.0	+0.0	+0.0	+24.0			R7_A1_MA673_B		
			+5.9	+3.3	-27.4	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
13	4879.610M	40.5	+0.0	+8.2	+6.1	-39.7	+0.0	49.0	54.0	-5.0	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
14	100.001M	47.6	+0.0	+1.0	+0.0	+0.0	+0.0	38.5	43.5	-5.0	Vert
			+0.0	+0.0	+0.0	+10.1			R7_A1_MA673_B		
			+5.8	+0.9	-27.0	+0.1			LE_LMH,R7_A1_		
									MA673_DTS		
15	400.003M	42.1	+0.0	+2.1	+0.0	+0.0	+0.0	40.9	46.0	-5.1	Horiz
			+0.0	+0.0	+0.0	+16.0			R7_A1_MA673_B		
			+5.8	+2.0	-27.3	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
16	4963.630M	39.7	+0.0	+8.4	+6.1	-39.6	+0.0	48.8	54.0	-5.2	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
17	950.015M	31.3	+0.0	+3.4	+0.0	+0.0	+0.0	40.8	46.0	-5.2	Vert
			+0.0	+0.0	+0.0	+24.0			R7_A1_MA673_B		
			+5.9	+3.3	-27.4	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		

18	38.554M	41.0	+0.0	+0.6	+0.0	+0.0	+0.0	34.8	40.0	-5.2	Vert
	QP		+0.0	+0.0	+0.0	+13.9			R7_A1_MA673_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
^	38.554M	41.8	+0.0	+0.6	+0.0	+0.0	+0.0	35.6	40.0	-4.4	Vert
			+0.0	+0.0	+0.0	+13.9			R7_A1_MA673_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
20	34.084M	38.7	+0.0	+0.5	+0.0	+0.0	+0.0	34.8	40.0	-5.2	Vert
	QP		+0.0	+0.0	+0.0	+16.4			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
^	34.084M	41.8	+0.0	+0.5	+0.0	+0.0	+0.0	37.9	40.0	-2.1	Vert
			+0.0	+0.0	+0.0	+16.4			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
22	850.012M	32.9	+0.0	+3.2	+0.0	+0.0	+0.0	40.7	46.0	-5.3	Vert
			+0.0	+0.0	+0.0	+23.0			R7_A1_MA673_B		
			+5.9	+3.0	-27.6	+0.3			LE_LMH,R7_A1_-		
									MA673_DTS		
23	7205.674M	33.9	+0.0	+10.7	+7.5	-39.6	+0.0	48.6	54.0	-5.4	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
24	32.296M	37.4	+0.0	+0.5	+0.0	+0.0	+0.0	34.4	40.0	-5.6	Vert
	QP		+0.0	+0.0	+0.0	+17.3			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
^	32.296M	38.0	+0.0	+0.5	+0.0	+0.0	+0.0	35.0	40.0	-5.0	Vert
			+0.0	+0.0	+0.0	+17.3			R7_A1_MA673_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_-		
									MA673_DTS		
26	4963.948M	39.2	+0.0	+8.4	+6.1	-39.6	+0.0	48.3	54.0	-5.7	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
27	750.004M	33.8	+0.0	+2.9	+0.0	+0.0	+0.0	39.5	46.0	-6.5	Vert
			+0.0	+0.0	+0.0	+21.6			R7_A1_MA673_B		
			+5.9	+2.8	-27.8	+0.3			LE_LMH,R7_A1_-		
									MA673_DTS		
28	650.000M	35.4	+0.0	+2.7	+0.0	+0.0	+0.0	39.3	46.0	-6.7	Horiz
			+0.0	+0.0	+0.0	+20.5			R7_A1_MA673_B		
			+5.8	+2.6	-28.0	+0.3			LE_LMH,R7_A1_-		
									MA673_DTS		
29	750.001M	33.6	+0.0	+2.9	+0.0	+0.0	+0.0	39.3	46.0	-6.7	Horiz
			+0.0	+0.0	+0.0	+21.6			R7_A1_MA673_B		
			+5.9	+2.8	-27.8	+0.3			LE_LMH,R7_A1_-		
									MA673_DTS		
30	525.001M	37.7	+0.0	+2.5	+0.0	+0.0	+0.0	39.1	46.0	-6.9	Vert
			+0.0	+0.0	+0.0	+18.6			R7_A1_MA673_B		
			+5.8	+2.3	-28.0	+0.2			LE_LMH,R7_A1_-		
									MA673_DTS		

31	849.998M	31.3	+0.0	+3.2	+0.0	+0.0	+0.0	39.1	46.0	-6.9	Horiz
			+0.0	+0.0	+0.0	+23.0			R7_A1_MA673_B		
			+5.9	+3.0	-27.6	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
32	900.025M	30.7	+0.0	+3.2	+0.0	+0.0	+0.0	39.1	46.0	-6.9	Vert
			+0.0	+0.0	+0.0	+23.4			R7_A1_MA673_B		
			+5.9	+3.1	-27.5	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
33	900.017M	30.4	+0.0	+3.2	+0.0	+0.0	+0.0	38.8	46.0	-7.2	Horiz
			+0.0	+0.0	+0.0	+23.4			R7_A1_MA673_B		
			+5.9	+3.1	-27.5	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
34	799.991M	31.8	+0.0	+3.0	+0.0	+0.0	+0.0	38.7	46.0	-7.3	Horiz
			+0.0	+0.0	+0.0	+22.5			R7_A1_MA673_B		
			+5.9	+2.9	-27.7	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
35	4804.415M	38.3	+0.0	+8.0	+6.1	-39.8	+0.0	46.5	54.0	-7.5	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
36	4804.108M	37.6	+0.0	+8.0	+6.1	-39.8	+0.0	45.8	54.0	-8.2	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
37	4952.691M	36.5	+0.0	+8.4	+6.1	-39.6	+0.0	45.6	54.0	-8.4	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
38	4960.400M	36.5	+0.0	+8.4	+6.1	-39.6	+0.0	45.6	54.0	-8.4	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
39	800.018M	30.7	+0.0	+3.0	+0.0	+0.0	+0.0	37.6	46.0	-8.4	Vert
			+0.0	+0.0	+0.0	+22.5			R7_A1_MA673_B		
			+5.9	+2.9	-27.7	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
40	4951.470M	35.8	+0.0	+8.4	+6.1	-39.6	+0.0	44.9	54.0	-9.1	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
41	300.004M	40.5	+0.0	+1.8	+0.0	+0.0	+0.0	36.8	46.0	-9.2	Horiz
			+0.0	+0.0	+0.0	+13.4			R7_A1_MA673_B		
			+5.8	+1.6	-26.5	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
42	4803.912M	36.5	+0.0	+8.0	+6.1	-39.8	+0.0	44.7	54.0	-9.3	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
43	4804.782M	36.5	+0.0	+8.0	+6.1	-39.8	+0.0	44.7	54.0	-9.3	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
44	399.991M	37.6	+0.0	+2.1	+0.0	+0.0	+0.0	36.4	46.0	-9.6	Vert
			+0.0	+0.0	+0.0	+16.0			R7_A1_MA673_B		
			+5.8	+2.0	-27.3	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		

45	4880.275M	35.8	+0.0	+8.2	+6.1	-39.7	+0.0	44.3	54.0	-9.7	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
46	4804.100M	36.0	+0.0	+8.0	+6.1	-39.8	+0.0	44.2	54.0	-9.8	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
47	4964.223M	35.1	+0.0	+8.4	+6.1	-39.6	+0.0	44.2	54.0	-9.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
48	4962.921M	35.1	+0.0	+8.4	+6.1	-39.6	+0.0	44.2	54.0	-9.8	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
49	4963.655M	35.0	+0.0	+8.4	+6.1	-39.6	+0.0	44.1	54.0	-9.9	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
50	475.002M	35.9	+0.0	+2.3	+0.0	+0.0	+0.0	36.1	46.0	-9.9	Vert
			+0.0	+0.0	+0.0	+17.5			R7_A1_MA673_B		
			+5.8	+2.2	-27.8	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
51	450.009M	36.2	+0.0	+2.2	+0.0	+0.0	+0.0	36.0	46.0	-10.0	Vert
			+0.0	+0.0	+0.0	+17.1			R7_A1_MA673_B		
			+5.8	+2.1	-27.6	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
52	550.011M	33.9	+0.0	+2.5	+0.0	+0.0	+0.0	36.0	46.0	-10.0	Horiz
			+0.0	+0.0	+0.0	+19.2			R7_A1_MA673_B		
			+5.8	+2.4	-28.0	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
53	375.008M	37.6	+0.0	+2.0	+0.0	+0.0	+0.0	35.8	46.0	-10.2	Vert
			+0.0	+0.0	+0.0	+15.4			R7_A1_MA673_B		
			+5.8	+1.9	-27.1	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
54	4962.939M	34.1	+0.0	+8.4	+6.1	-39.6	+0.0	43.2	54.0	-10.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
55	4880.723M	34.5	+0.0	+8.2	+6.1	-39.7	+0.0	43.0	54.0	-11.0	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
56	299.999M	38.4	+0.0	+1.8	+0.0	+0.0	+0.0	34.7	46.0	-11.3	Vert
			+0.0	+0.0	+0.0	+13.4			R7_A1_MA673_B		
			+5.8	+1.6	-26.5	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
57	650.003M	30.7	+0.0	+2.7	+0.0	+0.0	+0.0	34.6	46.0	-11.4	Vert
			+0.0	+0.0	+0.0	+20.5			R7_A1_MA673_B		
			+5.8	+2.6	-28.0	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
58	424.990M	35.3	+0.0	+2.2	+0.0	+0.0	+0.0	34.6	46.0	-11.4	Vert
			+0.0	+0.0	+0.0	+16.5			R7_A1_MA673_B		
			+5.8	+2.1	-27.5	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		

59	4804.553M	33.1	+0.0	+8.0	+6.1	-39.8	+0.0	41.3	54.0	-12.7	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4804.553M	45.6	+0.0	+8.0	+6.1	-39.8	+0.0	53.8	54.0	-0.2	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
61	350.002M	35.2	+0.0	+1.9	+0.0	+0.0	+0.0	32.9	46.0	-13.1	Horiz
			+0.0	+0.0	+0.0	+14.8			R7_A1_MA673_B		
			+5.8	+1.8	-26.8	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
62	450.011M	33.1	+0.0	+2.2	+0.0	+0.0	+0.0	32.9	46.0	-13.1	Horiz
			+0.0	+0.0	+0.0	+17.1			R7_A1_MA673_B		
			+5.8	+2.1	-27.6	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
63	4804.567M	32.5	+0.0	+8.0	+6.1	-39.8	+0.0	40.7	54.0	-13.3	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
64	999.998M	30.0	+0.0	+3.5	+0.0	+0.0	+0.0	40.3	54.0	-13.7	Vert
			+0.0	+0.0	+0.0	+24.5			R7_A1_MA673_B		
			+5.9	+3.4	-27.3	+0.3			LE_LMH,R7_A1_		
									MA673_DTS		
65	4879.837M	31.7	+0.0	+8.2	+6.1	-39.7	+0.0	40.2	54.0	-13.8	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	4879.837M	44.1	+0.0	+8.2	+6.1	-39.7	+0.0	52.6	54.0	-1.4	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	4879.887M	38.9	+0.0	+8.2	+6.1	-39.7	+0.0	47.4	54.0	-6.6	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
68	474.998M	31.9	+0.0	+2.3	+0.0	+0.0	+0.0	32.1	46.0	-13.9	Horiz
			+0.0	+0.0	+0.0	+17.5			R7_A1_MA673_B		
			+5.8	+2.2	-27.8	+0.2			LE_LMH,R7_A1_		
									MA673_DTS		
69	7440.690M	24.0	+0.0	+11.1	+7.7	-39.7	+0.0	39.9	54.0	-14.1	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.690M	37.4	+0.0	+11.1	+7.7	-39.7	+0.0	53.3	54.0	-0.7	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
71	7319.279M	24.7	+0.0	+10.8	+7.6	-39.8	+0.0	39.8	54.0	-14.2	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	7319.279M	38.6	+0.0	+10.8	+7.6	-39.8	+0.0	53.7	54.0	-0.3	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
73	7445.209M	23.8	+0.0	+11.1	+7.7	-39.7	+0.0	39.7	54.0	-14.3	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.209M	38.0	+0.0	+11.1	+7.7	-39.7	+0.0	53.9	54.0	-0.1	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

75	4880.314M	31.2	+0.0	+8.2	+6.1	-39.7	+0.0	39.7	54.0	-14.3	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4880.314M	43.6	+0.0	+8.2	+6.1	-39.7	+0.0	52.1	54.0	-1.9	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4880.233M	39.8	+0.0	+8.2	+6.1	-39.7	+0.0	48.3	54.0	-5.7	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
78	4811.500M	31.4	+0.0	+8.0	+6.1	-39.8	+0.0	39.6	54.0	-14.4	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	4811.500M	44.3	+0.0	+8.0	+6.1	-39.8	+0.0	52.5	54.0	-1.5	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
80	4803.547M	31.2	+0.0	+8.0	+6.1	-39.8	+0.0	39.4	54.0	-14.6	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.547M	44.0	+0.0	+8.0	+6.1	-39.8	+0.0	52.2	54.0	-1.8	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
82	7440.898M	23.4	+0.0	+11.1	+7.7	-39.7	+0.0	39.3	54.0	-14.7	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
83	4952.440M	30.1	+0.0	+8.4	+6.1	-39.6	+0.0	39.2	54.0	-14.8	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	4952.440M	42.4	+0.0	+8.4	+6.1	-39.6	+0.0	51.5	54.0	-2.5	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
85	7445.948M	23.1	+0.0	+11.1	+7.7	-39.7	+0.0	39.0	54.0	-15.0	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.948M	37.5	+0.0	+11.1	+7.7	-39.7	+0.0	53.4	54.0	-0.6	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
87	4804.556M	30.7	+0.0	+8.0	+6.1	-39.8	+0.0	38.9	54.0	-15.1	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4804.567M	44.5	+0.0	+8.0	+6.1	-39.8	+0.0	52.7	54.0	-1.3	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
89	4879.540M	30.4	+0.0	+8.2	+6.1	-39.7	+0.0	38.9	54.0	-15.1	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
90	7446.680M	22.8	+0.0	+11.1	+7.7	-39.7	+0.0	38.7	54.0	-15.3	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.680M	36.7	+0.0	+11.1	+7.7	-39.7	+0.0	52.6	54.0	-1.4	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

92	4951.743M	29.5	+0.0	+8.4	+6.1	-39.6	+0.0	38.6	54.0	-15.4	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	4951.743M	42.0	+0.0	+8.4	+6.1	-39.6	+0.0	51.1	54.0	-2.9	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
94	4811.501M	30.4	+0.0	+8.0	+6.1	-39.8	+0.0	38.6	54.0	-15.4	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	4811.501M	43.4	+0.0	+8.0	+6.1	-39.8	+0.0	51.6	54.0	-2.4	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
96	4804.458M	30.4	+0.0	+8.0	+6.1	-39.8	+0.0	38.6	54.0	-15.4	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4804.556M	43.8	+0.0	+8.0	+6.1	-39.8	+0.0	52.0	54.0	-2.0	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4804.458M	42.9	+0.0	+8.0	+6.1	-39.8	+0.0	51.1	54.0	-2.9	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
99	4880.487M	30.0	+0.0	+8.2	+6.1	-39.7	+0.0	38.5	54.0	-15.5	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	4880.487M	42.6	+0.0	+8.2	+6.1	-39.7	+0.0	51.1	54.0	-2.9	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	4880.542M	35.6	+0.0	+8.2	+6.1	-39.7	+0.0	44.1	54.0	-9.9	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
102	7319.420M	23.2	+0.0	+10.8	+7.6	-39.8	+0.0	38.3	54.0	-15.7	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
103	4879.837M	29.7	+0.0	+8.2	+6.1	-39.7	+0.0	38.2	54.0	-15.8	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4879.837M	41.6	+0.0	+8.2	+6.1	-39.7	+0.0	50.1	54.0	-3.9	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4879.792M	36.5	+0.0	+8.2	+6.1	-39.7	+0.0	45.0	54.0	-9.0	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
106	7320.802M	23.1	+0.0	+10.8	+7.6	-39.8	+0.0	38.2	54.0	-15.8	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
107	7445.288M	22.2	+0.0	+11.1	+7.7	-39.7	+0.0	38.1	54.0	-15.9	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

108	4803.703M	29.9	+0.0	+8.0	+6.1	-39.8	+0.0	38.1	54.0	-15.9	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.703M	42.8	+0.0	+8.0	+6.1	-39.8	+0.0	51.0	54.0	-3.0	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.750M	39.3	+0.0	+8.0	+6.1	-39.8	+0.0	47.5	54.0	-6.5	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
111	7446.780M	22.2	+0.0	+11.1	+7.7	-39.7	+0.0	38.1	54.0	-15.9	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
112	7427.467M	22.1	+0.0	+11.1	+7.7	-39.7	+0.0	38.0	54.0	-16.0	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	7427.467M	36.0	+0.0	+11.1	+7.7	-39.7	+0.0	51.9	54.0	-2.1	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
114	7445.316M	22.0	+0.0	+11.1	+7.7	-39.7	+0.0	37.9	54.0	-16.1	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.288M	35.6	+0.0	+11.1	+7.7	-39.7	+0.0	51.5	54.0	-2.5	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.316M	35.3	+0.0	+11.1	+7.7	-39.7	+0.0	51.2	54.0	-2.8	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
117	4959.888M	28.8	+0.0	+8.4	+6.1	-39.6	+0.0	37.9	54.0	-16.1	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.888M	40.7	+0.0	+8.4	+6.1	-39.6	+0.0	49.8	54.0	-4.2	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
119	7320.810M	22.8	+0.0	+10.8	+7.6	-39.8	+0.0	37.9	54.0	-16.1	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
120	7446.807M	22.0	+0.0	+11.1	+7.7	-39.7	+0.0	37.9	54.0	-16.1	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

121	7446.849M	22.0	+0.0	+11.1	+7.7	-39.7	+0.0	37.9	54.0	-16.1	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.807M	35.5	+0.0	+11.1	+7.7	-39.7	+0.0	51.4	54.0	-2.6	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.780M	35.2	+0.0	+11.1	+7.7	-39.7	+0.0	51.1	54.0	-2.9	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
^	7446.849M	34.4	+0.0	+11.1	+7.7	-39.7	+0.0	50.3	54.0	-3.7	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
125	7321.027M	22.8	+0.0	+10.8	+7.6	-39.8	+0.0	37.9	54.0	-16.1	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7321.027M	37.9	+0.0	+10.8	+7.6	-39.8	+0.0	53.0	54.0	-1.0	Horiz
			+0.1	+36.2	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
127	7319.500M	22.8	+0.0	+10.8	+7.6	-39.8	+0.0	37.9	54.0	-16.1	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.500M	36.9	+0.0	+10.8	+7.6	-39.8	+0.0	52.0	54.0	-2.0	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
129	7320.917M	22.8	+0.0	+10.8	+7.6	-39.8	+0.0	37.9	54.0	-16.1	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
^	7320.917M	38.4	+0.0	+10.8	+7.6	-39.8	+0.0	53.5	54.0	-0.5	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_M_M		
131	7206.845M	23.2	+0.0	+10.7	+7.5	-39.6	+0.0	37.9	54.0	-16.1	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
132	7445.399M	21.9	+0.0	+11.1	+7.7	-39.7	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.399M	35.9	+0.0	+11.1	+7.7	-39.7	+0.0	51.8	54.0	-2.2	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
134	4964.570M	28.7	+0.0	+8.4	+6.1	-39.6	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4964.570M	41.8	+0.0	+8.4	+6.1	-39.6	+0.0	50.9	54.0	-3.1	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

136	4964.417M	28.7	+0.0	+8.4	+6.1	-39.6	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
^	4964.417M	41.4	+0.0	+8.4	+6.1	-39.6	+0.0	50.5	54.0	-3.5	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
138	7428.370M	21.9	+0.0	+11.1	+7.7	-39.7	+0.0	37.8	54.0	-16.2	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	7428.370M	36.5	+0.0	+11.1	+7.7	-39.7	+0.0	52.4	54.0	-1.6	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
140	4879.547M	29.3	+0.0	+8.2	+6.1	-39.7	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4879.540M	43.5	+0.0	+8.2	+6.1	-39.7	+0.0	52.0	54.0	-2.0	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4879.547M	42.3	+0.0	+8.2	+6.1	-39.7	+0.0	50.8	54.0	-3.2	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
143	4959.535M	28.7	+0.0	+8.4	+6.1	-39.6	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.535M	41.9	+0.0	+8.4	+6.1	-39.6	+0.0	51.0	54.0	-3.0	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.595M	38.7	+0.0	+8.4	+6.1	-39.6	+0.0	47.8	54.0	-6.2	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.550M	38.5	+0.0	+8.4	+6.1	-39.6	+0.0	47.6	54.0	-6.4	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.569M	36.3	+0.0	+8.4	+6.1	-39.6	+0.0	45.4	54.0	-8.6	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.587M	35.8	+0.0	+8.4	+6.1	-39.6	+0.0	44.9	54.0	-9.1	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	4959.550M	35.3	+0.0	+8.4	+6.1	-39.6	+0.0	44.4	54.0	-9.6	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		

150	4803.543M	29.6	+0.0	+8.0	+6.1	-39.8	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.543M	43.6	+0.0	+8.0	+6.1	-39.8	+0.0	51.8	54.0	-2.2	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	4803.553M	39.1	+0.0	+8.0	+6.1	-39.8	+0.0	47.3	54.0	-6.7	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
153	4959.529M	28.6	+0.0	+8.4	+6.1	-39.6	+0.0	37.7	54.0	-16.3	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.529M	42.3	+0.0	+8.4	+6.1	-39.6	+0.0	51.4	54.0	-2.6	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4959.541M	39.6	+0.0	+8.4	+6.1	-39.6	+0.0	48.7	54.0	-5.3	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
156	7319.348M	22.6	+0.0	+10.8	+7.6	-39.8	+0.0	37.7	54.0	-16.3	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
157	7446.844M	21.8	+0.0	+11.1	+7.7	-39.7	+0.0	37.7	54.0	-16.3	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.844M	35.4	+0.0	+11.1	+7.7	-39.7	+0.0	51.3	54.0	-2.7	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.807M	33.9	+0.0	+11.1	+7.7	-39.7	+0.0	49.8	54.0	-4.2	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
160	7445.559M	21.8	+0.0	+11.1	+7.7	-39.7	+0.0	37.7	54.0	-16.3	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7445.559M	35.7	+0.0	+11.1	+7.7	-39.7	+0.0	51.6	54.0	-2.4	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
162	7320.900M	22.5	+0.0	+10.8	+7.6	-39.8	+0.0	37.6	54.0	-16.4	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.900M	36.2	+0.0	+10.8	+7.6	-39.8	+0.0	51.3	54.0	-2.7	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
164	4960.559M	28.5	+0.0	+8.4	+6.1	-39.6	+0.0	37.6	54.0	-16.4	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4960.559M	42.3	+0.0	+8.4	+6.1	-39.6	+0.0	51.4	54.0	-2.6	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
166	7440.835M	21.7	+0.0	+11.1	+7.7	-39.7	+0.0	37.6	54.0	-16.4	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		

167	7206.773M	22.9	+0.0	+10.7	+7.5	-39.6	+0.0	37.6	54.0	-16.4	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
168	7206.793M	22.8	+0.0	+10.7	+7.5	-39.6	+0.0	37.5	54.0	-16.5	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.793M	36.5	+0.0	+10.7	+7.5	-39.6	+0.0	51.2	54.0	-2.8	Vert
			+0.1	+35.8	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
170	7440.843M	21.6	+0.0	+11.1	+7.7	-39.7	+0.0	37.5	54.0	-16.5	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
171	7428.557M	21.6	+0.0	+11.1	+7.7	-39.7	+0.0	37.5	54.0	-16.5	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
^	7428.557M	36.0	+0.0	+11.1	+7.7	-39.7	+0.0	51.9	54.0	-2.1	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
173	7440.857M	21.5	+0.0	+11.1	+7.7	-39.7	+0.0	37.4	54.0	-16.6	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.898M	37.0	+0.0	+11.1	+7.7	-39.7	+0.0	52.9	54.0	-1.1	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.835M	36.1	+0.0	+11.1	+7.7	-39.7	+0.0	52.0	54.0	-2.0	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.857M	35.9	+0.0	+11.1	+7.7	-39.7	+0.0	51.8	54.0	-2.2	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
177	7440.867M	21.5	+0.0	+11.1	+7.7	-39.7	+0.0	37.4	54.0	-16.6	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
178	7218.782M	22.6	+0.0	+10.7	+7.5	-39.6	+0.0	37.4	54.0	-16.6	Vert
	Ave		+0.1	+35.9	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	7218.782M	36.3	+0.0	+10.7	+7.5	-39.6	+0.0	51.1	54.0	-2.9	Vert
			+0.1	+35.9	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
180	7440.713M	21.5	+0.0	+11.1	+7.7	-39.7	+0.0	37.4	54.0	-16.6	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.713M	35.7	+0.0	+11.1	+7.7	-39.7	+0.0	51.6	54.0	-2.4	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		

182	4963.540M	28.2	+0.0	+8.4	+6.1	-39.6	+0.0	37.3	54.0	-16.7	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4963.540M	40.9	+0.0	+8.4	+6.1	-39.6	+0.0	50.0	54.0	-4.0	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4963.607M	37.6	+0.0	+8.4	+6.1	-39.6	+0.0	46.7	54.0	-7.3	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
185	7446.318M	21.3	+0.0	+11.1	+7.7	-39.7	+0.0	37.2	54.0	-16.8	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	7446.318M	35.6	+0.0	+11.1	+7.7	-39.7	+0.0	51.5	54.0	-2.5	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
187	7320.742M	22.1	+0.0	+10.8	+7.6	-39.8	+0.0	37.2	54.0	-16.8	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
188	7440.913M	21.3	+0.0	+11.1	+7.7	-39.7	+0.0	37.2	54.0	-16.8	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.867M	36.2	+0.0	+11.1	+7.7	-39.7	+0.0	52.1	54.0	-1.9	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	7440.843M	36.2	+0.0	+11.1	+7.7	-39.7	+0.0	52.1	54.0	-1.9	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
191	7439.458M	21.2	+0.0	+11.1	+7.7	-39.7	+0.0	37.1	54.0	-16.9	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
192	7206.780M	22.4	+0.0	+10.7	+7.5	-39.6	+0.0	37.1	54.0	-16.9	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.845M	36.5	+0.0	+10.7	+7.5	-39.6	+0.0	51.2	54.0	-2.8	Horiz
			+0.1	+35.8	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
194	7439.317M	21.2	+0.0	+11.1	+7.7	-39.7	+0.0	37.1	54.0	-16.9	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.317M	35.3	+0.0	+11.1	+7.7	-39.7	+0.0	51.2	54.0	-2.8	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
196	7439.384M	21.1	+0.0	+11.1	+7.7	-39.7	+0.0	37.0	54.0	-17.0	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.458M	35.2	+0.0	+11.1	+7.7	-39.7	+0.0	51.1	54.0	-2.9	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.384M	35.0	+0.0	+11.1	+7.7	-39.7	+0.0	50.9	54.0	-3.1	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		

199	7205.445M	22.2	+0.0	+10.7	+7.5	-39.6	+0.0	36.9	54.0	-17.1	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7205.445M	35.5	+0.0	+10.7	+7.5	-39.6	+0.0	50.2	54.0	-3.8	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
201	7217.168M	22.1	+0.0	+10.7	+7.5	-39.6	+0.0	36.9	54.0	-17.1	Horiz
	Ave		+0.1	+35.9	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	7217.168M	36.8	+0.0	+10.7	+7.5	-39.6	+0.0	51.6	54.0	-2.4	Horiz
			+0.1	+35.9	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
203	7320.800M	21.7	+0.0	+10.8	+7.6	-39.8	+0.0	36.8	54.0	-17.2	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.800M	35.3	+0.0	+10.8	+7.6	-39.8	+0.0	50.4	54.0	-3.6	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
205	4964.574M	27.7	+0.0	+8.4	+6.1	-39.6	+0.0	36.8	54.0	-17.2	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
206	7439.451M	20.9	+0.0	+11.1	+7.7	-39.7	+0.0	36.8	54.0	-17.2	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7439.451M	34.9	+0.0	+11.1	+7.7	-39.7	+0.0	50.8	54.0	-3.2	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
208	7206.657M	22.0	+0.0	+10.7	+7.5	-39.6	+0.0	36.7	54.0	-17.3	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	7206.657M	36.3	+0.0	+10.7	+7.5	-39.6	+0.0	51.0	54.0	-3.0	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
210	7447.137M	20.8	+0.0	+11.1	+7.7	-39.7	+0.0	36.7	54.0	-17.3	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
^	7447.137M	35.3	+0.0	+11.1	+7.7	-39.7	+0.0	51.2	54.0	-2.8	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
212	7206.019M	22.0	+0.0	+10.7	+7.5	-39.6	+0.0	36.7	54.0	-17.3	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.019M	36.3	+0.0	+10.7	+7.5	-39.6	+0.0	51.0	54.0	-3.0	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		

214	7440.587M	20.8	+0.0	+11.1	+7.7	-39.7	+0.0	36.7	54.0	-17.3	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	7440.587M	34.6	+0.0	+11.1	+7.7	-39.7	+0.0	50.5	54.0	-3.5	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
216	7319.360M	21.5	+0.0	+10.8	+7.6	-39.8	+0.0	36.6	54.0	-17.4	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.420M	36.9	+0.0	+10.8	+7.6	-39.8	+0.0	52.0	54.0	-2.0	Horiz
			+0.1	+36.2	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.348M	36.8	+0.0	+10.8	+7.6	-39.8	+0.0	51.9	54.0	-2.1	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.360M	35.1	+0.0	+10.8	+7.6	-39.8	+0.0	50.2	54.0	-3.8	Horiz
			+0.1	+36.2	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
220	7428.992M	20.6	+0.0	+11.1	+7.7	-39.7	+0.0	36.5	54.0	-17.5	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
^	7428.992M	34.9	+0.0	+11.1	+7.7	-39.7	+0.0	50.8	54.0	-3.2	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
									S		
222	7205.593M	21.8	+0.0	+10.7	+7.5	-39.6	+0.0	36.5	54.0	-17.5	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
^	7205.593M	35.8	+0.0	+10.7	+7.5	-39.6	+0.0	50.5	54.0	-3.5	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_L_L2		
224	7206.265M	21.7	+0.0	+10.7	+7.5	-39.6	+0.0	36.4	54.0	-17.6	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
225	7205.158M	21.7	+0.0	+10.7	+7.5	-39.6	+0.0	36.4	54.0	-17.6	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7205.158M	35.7	+0.0	+10.7	+7.5	-39.6	+0.0	50.4	54.0	-3.6	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
227	7206.677M	21.6	+0.0	+10.7	+7.5	-39.6	+0.0	36.3	54.0	-17.7	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		

228	7206.687M	21.6	+0.0	+10.7	+7.5	-39.6	+0.0	36.3	54.0	-17.7	Horiz
	Ave		+0.1	+35.8	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.773M	37.5	+0.0	+10.7	+7.5	-39.6	+0.0	52.2	54.0	-1.8	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.780M	36.9	+0.0	+10.7	+7.5	-39.6	+0.0	51.6	54.0	-2.4	Horiz
			+0.1	+35.8	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.687M	36.6	+0.0	+10.7	+7.5	-39.6	+0.0	51.3	54.0	-2.7	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.677M	35.2	+0.0	+10.7	+7.5	-39.6	+0.0	49.9	54.0	-4.1	Horiz
			+0.1	+35.8	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
233	4964.567M	27.1	+0.0	+8.4	+6.1	-39.6	+0.0	36.2	54.0	-17.8	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
234	7320.795M	20.8	+0.0	+10.8	+7.6	-39.8	+0.0	35.9	54.0	-18.1	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.810M	37.0	+0.0	+10.8	+7.6	-39.8	+0.0	52.1	54.0	-1.9	Vert
			+0.1	+36.2	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.802M	36.7	+0.0	+10.8	+7.6	-39.8	+0.0	51.8	54.0	-2.2	Vert
			+0.1	+36.2	+0.2	+0.0			R8_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.742M	35.2	+0.0	+10.8	+7.6	-39.8	+0.0	50.3	54.0	-3.7	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7320.795M	34.7	+0.0	+10.8	+7.6	-39.8	+0.0	49.8	54.0	-4.2	Vert
			+0.1	+36.2	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
239	7441.000M	19.9	+0.0	+11.1	+7.7	-39.7	+0.0	35.8	54.0	-18.2	Vert
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7440.913M	35.2	+0.0	+11.1	+7.7	-39.7	+0.0	51.1	54.0	-2.9	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	7441.000M	34.7	+0.0	+11.1	+7.7	-39.7	+0.0	50.6	54.0	-3.4	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A2_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
242	7319.428M	20.6	+0.0	+10.8	+7.6	-39.8	+0.0	35.7	54.0	-18.3	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	7319.428M	34.9	+0.0	+10.8	+7.6	-39.8	+0.0	50.0	54.0	-4.0	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		

244	4880.594M	26.9	+0.0	+8.2	+6.1	-39.7	+0.0	35.4	54.0	-18.6	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
^	4880.594M	40.2	+0.0	+8.2	+6.1	-39.7	+0.0	48.7	54.0	-5.3	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
246	7206.314M	20.1	+0.0	+10.7	+7.5	-39.6	+0.0	34.8	54.0	-19.2	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.265M	35.9	+0.0	+10.7	+7.5	-39.6	+0.0	50.6	54.0	-3.4	Vert
			+0.1	+35.8	+0.2	+0.0			R8_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
^	7206.314M	34.6	+0.0	+10.7	+7.5	-39.6	+0.0	49.3	54.0	-4.7	Vert
			+0.1	+35.8	+0.2	+0.0			R8_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
249	4960.567M	25.7	+0.0	+8.4	+6.1	-39.6	+0.0	34.8	54.0	-19.2	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4960.567M	39.9	+0.0	+8.4	+6.1	-39.6	+0.0	49.0	54.0	-5.0	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
^	4960.507M	36.4	+0.0	+8.4	+6.1	-39.6	+0.0	45.5	54.0	-8.5	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H_H2		
^	4960.513M	35.1	+0.0	+8.4	+6.1	-39.6	+0.0	44.2	54.0	-9.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A3_MA673_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
253	4964.607M	25.6	+0.0	+8.4	+6.1	-39.6	+0.0	34.7	54.0	-19.3	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4964.574M	40.7	+0.0	+8.4	+6.1	-39.6	+0.0	49.8	54.0	-4.2	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4964.567M	40.5	+0.0	+8.4	+6.1	-39.6	+0.0	49.6	54.0	-4.4	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A2_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		
^	4964.513M	40.1	+0.0	+8.4	+6.1	-39.6	+0.0	49.2	54.0	-4.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_M		
			+0.0	+0.0	+0.0	+0.0			A673_BLE_H2_DT		
^	4964.607M	39.1	+0.0	+8.4	+6.1	-39.6	+0.0	48.2	54.0	-5.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_MA673_D		
			+0.0	+0.0	+0.0	+0.0			TS		

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
 Customer: **Walt Disney Parks and Resorts US, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **101978** Date: 12/25/2018
 Test Type: **Radiated Scan** Time: 13:30:23
 Tested By: S. Yamamoto Sequence#: 5
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
 FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: HG2458

Frequency range of measurement = 9 kHz- 25 GHz.

9 kHz -150 kHz;RBW=200 Hz,VBW=200 Hz;150 kHz-30 MHz;RBW=9 kHz,VBW=9 kHz;30 MHz-1000 MHz;RBW=120 kHz,VBW=120 kHz,1000 MHz-25000MHz MHz;RBW=1 MHz,VBW=1 MHz.

Test environment conditions:

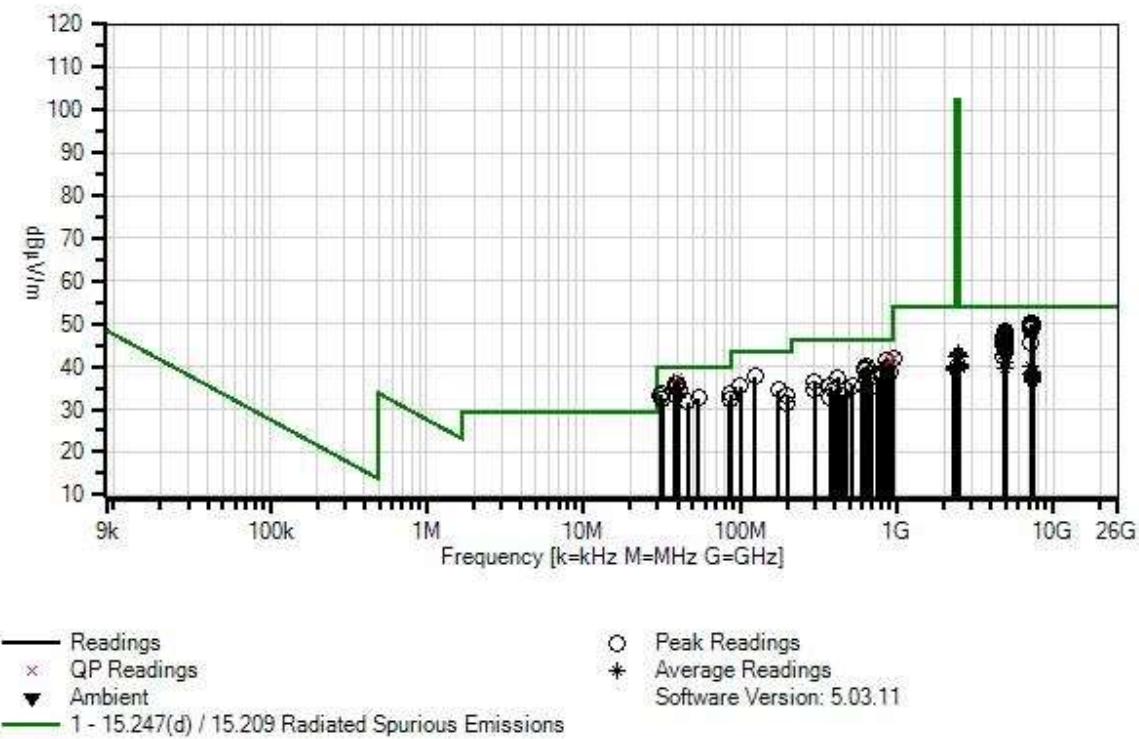
Temperature: 18°C, Relative Humidity: 53%, Pressure: 99kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Walt Disney Parks and Resorts US, Inc. WO#: 101978 Sequence#: 5 Date: 12/25/2018
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T3	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T6	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T7	AN03385	High Pass Filter	11SH10- 3000/T10000- O/O	6/2/2017	6/2/2019
T8	AN01994	Biconilog Antenna	CBL6111C	4/23/2018	4/23/2020
T9	ANP05283	Attenuator	ATT-0218-06- NNN-02	4/5/2018	4/5/2020
T10	ANP01911	Cable-Amplitude +15C to +45C (dB)	RG214/U	1/8/2018	1/8/2020
T11	AN00010	Preamp	8447D	2/19/2018	2/19/2020
T12	ANP06978	Cable	Sucoflex 104A	3/31/2018	3/31/2020
T13	AN03430	Attenuator	75A-10-12	12/19/2017	12/19/2019
	AN00314	Loop Antenna	6502	5/13/2018	5/13/2020
	AN01413	Horn Antenna-ANSI C63.5 (dB/m)	84125-80008	10/17/2018	10/17/2020
	AN03367	Horn Antenna-ANSI C63.5 Calibration	62-GH-62-25.	8/24/2017	8/24/2019

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11	T12					
			T13								
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	39.567M	43.9	+0.0	+0.6	+0.0	+0.0	+0.0	37.2	40.0	-2.8	Vert
	QP		+0.0	+0.0	+0.0	+13.4					R7_A1_HG2458_B
			+5.8	+0.6	-27.1	+0.0					LE_LMH,R7_A1_
			+0.0								HG2458_DTS
^	39.567M	44.5	+0.0	+0.6	+0.0	+0.0	+0.0	37.8	40.0	-2.2	Vert
			+0.0	+0.0	+0.0	+13.4					R7_A1_HG2458_B
			+5.8	+0.6	-27.1	+0.0					LE_LMH,R7_A1_
			+0.0								HG2458_DTS
3	7445.514M	34.1	+0.0	+11.1	+7.7	-39.7	+0.0	50.0	54.0	-4.0	Horiz
			+0.2	+36.4	+0.2	+0.0					R7_A2_HG2458_D
			+0.0	+0.0	+0.0	+0.0					TS
			+0.0								
4	950.004M	32.5	+0.0	+3.4	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Horiz
			+0.0	+0.0	+0.0	+24.0					R7_A1_HG2458_B
			+5.9	+3.3	-27.4	+0.3					LE_LMH,R7_A1_
			+0.0								HG2458_DTS

5	40.319M	43.1	+0.0	+0.6	+0.0	+0.0	+0.0	36.0	40.0	-4.0	Vert
			+0.0	+0.0	+0.0	+13.0			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
6	7218.627M	35.2	+0.0	+10.7	+7.5	-39.6	+0.0	50.0	54.0	-4.0	Horiz
			+0.1	+35.9	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								
7	7440.758M	34.0	+0.0	+11.1	+7.7	-39.7	+0.0	49.9	54.0	-4.1	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
8	38.808M	42.2	+0.0	+0.6	+0.0	+0.0	+0.0	35.9	40.0	-4.1	Vert
			+0.0	+0.0	+0.0	+13.8			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
9	950.002M	32.3	+0.0	+3.4	+0.0	+0.0	+0.0	41.8	46.0	-4.2	Vert
QP			+0.0	+0.0	+0.0	+24.0			R7_A1_HG2458_B		
			+5.9	+3.3	-27.4	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
^	950.002M	33.0	+0.0	+3.4	+0.0	+0.0	+0.0	42.5	46.0	-3.5	Vert
			+0.0	+0.0	+0.0	+24.0			R7_A1_HG2458_B		
			+5.9	+3.3	-27.4	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
11	7445.433M	33.8	+0.0	+11.1	+7.7	-39.7	+0.0	49.7	54.0	-4.3	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A4_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
12	7320.653M	34.6	+0.0	+10.8	+7.6	-39.8	+0.0	49.7	54.0	-4.3	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
13	7440.275M	33.8	+0.0	+11.1	+7.7	-39.7	+0.0	49.7	54.0	-4.3	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+0.0								
14	7320.765M	34.5	+0.0	+10.8	+7.6	-39.8	+0.0	49.6	54.0	-4.4	Horiz
			+0.1	+36.2	+0.2	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
15	7441.000M	33.7	+0.0	+11.1	+7.7	-39.7	+0.0	49.6	54.0	-4.4	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
16	7446.193M	33.6	+0.0	+11.1	+7.7	-39.7	+0.0	49.5	54.0	-4.5	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		

17	900.015M	33.0	+0.0	+3.2	+0.0	+0.0	+0.0	41.4	46.0	-4.6	Vert
	QP		+0.0	+0.0	+0.0	+23.4			R7_A1_HG2458_B		
			+5.9	+3.1	-27.5	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
^	900.015M	34.7	+0.0	+3.2	+0.0	+0.0	+0.0	43.1	46.0	-2.9	Vert
			+0.0	+0.0	+0.0	+23.4			R7_A1_HG2458_B		
			+5.9	+3.1	-27.5	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
19	7440.969M	33.4	+0.0	+11.1	+7.7	-39.7	+0.0	49.3	54.0	-4.7	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
20	7445.530M	33.4	+0.0	+11.1	+7.7	-39.7	+0.0	49.3	54.0	-4.7	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A3_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
21	850.004M	33.5	+0.0	+3.2	+0.0	+0.0	+0.0	41.3	46.0	-4.7	Vert
			+0.0	+0.0	+0.0	+23.0			R7_A1_HG2458_B		
			+5.9	+3.0	-27.6	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
22	7207.021M	34.5	+0.0	+10.7	+7.5	-39.6	+0.0	49.2	54.0	-4.8	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
23	7206.603M	34.5	+0.0	+10.7	+7.5	-39.6	+0.0	49.2	54.0	-4.8	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								
24	7446.782M	33.3	+0.0	+11.1	+7.7	-39.7	+0.0	49.2	54.0	-4.8	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A2_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
25	7428.398M	33.2	+0.0	+11.1	+7.7	-39.7	+0.0	49.1	54.0	-4.9	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+0.0								
26	39.317M	41.7	+0.0	+0.6	+0.0	+0.0	+0.0	35.1	40.0	-4.9	Vert
			+0.0	+0.0	+0.0	+13.5			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
27	7439.435M	33.1	+0.0	+11.1	+7.7	-39.7	+0.0	49.0	54.0	-5.0	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
28	7446.560M	33.1	+0.0	+11.1	+7.7	-39.7	+0.0	49.0	54.0	-5.0	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A4_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
29	7445.305M	33.1	+0.0	+11.1	+7.7	-39.7	+0.0	49.0	54.0	-5.0	Vert
			+0.2	+36.4	+0.2	+0.0			R8_A3_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								

30	7206.883M	34.1	+0.0	+10.7	+7.5	-39.6	+0.0	48.8	54.0	-5.2	Horiz
			+0.1	+35.8	+0.2	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
31	41.043M	42.1	+0.0	+0.6	+0.0	+0.0	+0.0	34.7	40.0	-5.3	Vert
			+0.0	+0.0	+0.0	+12.7			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
32	7205.430M	34.0	+0.0	+10.7	+7.5	-39.6	+0.0	48.7	54.0	-5.3	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
33	4951.585M	39.2	+0.0	+8.4	+6.1	-39.6	+0.0	48.3	54.0	-5.7	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		
34	40.572M	41.4	+0.0	+0.6	+0.0	+0.0	+0.0	34.2	40.0	-5.8	Vert
			+0.0	+0.0	+0.0	+12.9			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
35	649.995M	36.3	+0.0	+2.7	+0.0	+0.0	+0.0	40.2	46.0	-5.8	Horiz
			+0.0	+0.0	+0.0	+20.5			R7_A1_HG2458_B		
			+5.8	+2.6	-28.0	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
36	125.001M	45.0	+0.0	+1.1	+0.0	+0.0	+0.0	37.7	43.5	-5.8	Vert
			+0.0	+0.0	+0.0	+11.6			R7_A1_HG2458_B		
			+5.8	+1.0	-26.9	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
37	4959.620M	38.8	+0.0	+8.4	+6.1	-39.6	+0.0	47.9	54.0	-6.1	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
38	625.008M	36.0	+0.0	+2.7	+0.0	+0.0	+0.0	39.7	46.0	-6.3	Horiz
			+0.0	+0.0	+0.0	+20.4			R7_A1_HG2458_B		
			+5.8	+2.5	-28.0	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
39	850.007M	31.8	+0.0	+3.2	+0.0	+0.0	+0.0	39.6	46.0	-6.4	Horiz
			+0.0	+0.0	+0.0	+23.0			R7_A1_HG2458_B		
			+5.9	+3.0	-27.6	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
40	87.487M	44.3	+0.0	+0.9	+0.0	+0.0	+0.0	33.5	40.0	-6.5	Vert
			+0.0	+0.0	+0.0	+8.5			R7_A1_HG2458_B		
			+5.8	+0.9	-27.0	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
41	31.550M	36.2	+0.0	+0.4	+0.0	+0.0	+0.0	33.5	40.0	-6.5	Vert
			+0.0	+0.0	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
42	4880.457M	39.0	+0.0	+8.2	+6.1	-39.7	+0.0	47.5	54.0	-6.5	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								

43	31.300M	35.9	+0.0	+0.4	+0.0	+0.0	+0.0	33.4	40.0	-6.6	Vert
			+0.0	+0.0	+0.0	+17.9			R7_A1_HG2458_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
44	38.583M	39.6	+0.0	+0.6	+0.0	+0.0	+0.0	33.4	40.0	-6.6	Vert
			+0.0	+0.0	+0.0	+13.9			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
45	4959.585M	38.2	+0.0	+8.4	+6.1	-39.6	+0.0	47.3	54.0	-6.7	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
46	4964.503M	38.2	+0.0	+8.4	+6.1	-39.6	+0.0	47.3	54.0	-6.7	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A4_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
47	4880.773M	38.6	+0.0	+8.2	+6.1	-39.7	+0.0	47.1	54.0	-6.9	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
48	4960.485M	37.9	+0.0	+8.4	+6.1	-39.6	+0.0	47.0	54.0	-7.0	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
49	625.002M	35.3	+0.0	+2.7	+0.0	+0.0	+0.0	39.0	46.0	-7.0	Vert
			+0.0	+0.0	+0.0	+20.4			R7_A1_HG2458_B		
			+5.8	+2.5	-28.0	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
50	4804.533M	38.8	+0.0	+8.0	+6.1	-39.8	+0.0	47.0	54.0	-7.0	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
51	900.012M	30.5	+0.0	+3.2	+0.0	+0.0	+0.0	38.9	46.0	-7.1	Horiz
			+0.0	+0.0	+0.0	+23.4			R7_A1_HG2458_B		
			+5.9	+3.1	-27.5	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
52	4963.485M	37.8	+0.0	+8.4	+6.1	-39.6	+0.0	46.9	54.0	-7.1	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A3_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
53	4963.547M	37.7	+0.0	+8.4	+6.1	-39.6	+0.0	46.8	54.0	-7.2	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
54	800.006M	31.9	+0.0	+3.0	+0.0	+0.0	+0.0	38.8	46.0	-7.2	Horiz
			+0.0	+0.0	+0.0	+22.5			R7_A1_HG2458_B		
			+5.9	+2.9	-27.7	+0.3			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
55	4959.613M	37.6	+0.0	+8.4	+6.1	-39.6	+0.0	46.7	54.0	-7.3	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								

56	4959.690M	37.5	+0.0	+8.4	+6.1	-39.6	+0.0	46.6	54.0	-7.4	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
57	54.255M	45.5	+0.0	+0.7	+0.0	+0.0	+0.0	32.6	40.0	-7.4	Vert
			+0.0	+0.0	+0.0	+7.1			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
58	31.800M	35.1	+0.0	+0.4	+0.0	+0.0	+0.0	32.3	40.0	-7.7	Vert
			+0.0	+0.0	+0.0	+17.6			R7_A1_HG2458_B		
			+5.8	+0.5	-27.1	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
59	4804.550M	38.0	+0.0	+8.0	+6.1	-39.8	+0.0	46.2	54.0	-7.8	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								
60	4804.605M	38.0	+0.0	+8.0	+6.1	-39.8	+0.0	46.2	54.0	-7.8	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
61	86.096M	43.2	+0.0	+0.9	+0.0	+0.0	+0.0	32.2	40.0	-7.8	Vert
			+0.0	+0.0	+0.0	+8.3			R7_A1_HG2458_B		
			+5.8	+0.9	-27.0	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
62	4879.551M	37.6	+0.0	+8.2	+6.1	-39.7	+0.0	46.1	54.0	-7.9	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
63	4811.838M	37.8	+0.0	+8.0	+6.1	-39.8	+0.0	46.0	54.0	-8.0	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								
64	4803.621M	37.8	+0.0	+8.0	+6.1	-39.8	+0.0	46.0	54.0	-8.0	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
65	800.004M	31.0	+0.0	+3.0	+0.0	+0.0	+0.0	37.9	46.0	-8.1	Vert
			+0.0	+0.0	+0.0	+22.5			R7_A1_HG2458_B		
			+5.9	+2.9	-27.7	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
66	100.001M	44.5	+0.0	+1.0	+0.0	+0.0	+0.0	35.4	43.5	-8.1	Vert
			+0.0	+0.0	+0.0	+10.1			R7_A1_HG2458_B		
			+5.8	+0.9	-27.0	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
67	46.593M	41.9	+0.0	+0.7	+0.0	+0.0	+0.0	31.8	40.0	-8.2	Vert
			+0.0	+0.0	+0.0	+9.9			R7_A1_HG2458_B		
			+5.8	+0.6	-27.1	+0.0			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
68	4803.377M	37.5	+0.0	+8.0	+6.1	-39.8	+0.0	45.7	54.0	-8.3	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								

69	750.005M	32.0	+0.0	+2.9	+0.0	+0.0	+0.0	37.7	46.0	-8.3	Horiz
			+0.0	+0.0	+0.0	+21.6			R7_A1_HG2458_B		
			+5.9	+2.8	-27.8	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
70	4963.712M	36.6	+0.0	+8.4	+6.1	-39.6	+0.0	45.7	54.0	-8.3	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A2_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
71	750.004M	31.9	+0.0	+2.9	+0.0	+0.0	+0.0	37.6	46.0	-8.4	Vert
			+0.0	+0.0	+0.0	+21.6			R7_A1_HG2458_B		
			+5.9	+2.8	-27.8	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
72	4804.000M	37.3	+0.0	+8.0	+6.1	-39.8	+0.0	45.5	54.0	-8.5	Vert
Ave			+0.4	+33.2	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
73	424.995M	38.2	+0.0	+2.2	+0.0	+0.0	+0.0	37.5	46.0	-8.5	Vert
			+0.0	+0.0	+0.0	+16.5			R7_A1_HG2458_B		
			+5.8	+2.1	-27.5	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
74	4804.605M	37.2	+0.0	+8.0	+6.1	-39.8	+0.0	45.4	54.0	-8.6	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
75	7206.005M	30.7	+0.0	+10.7	+7.5	-39.6	+0.0	45.4	54.0	-8.6	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
76	4804.000M	37.2	+0.0	+8.0	+6.1	-39.8	+0.0	45.4	54.0	-8.6	Vert
Ave			+0.4	+33.2	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	4804.000M	47.8	+0.0	+8.0	+6.1	-39.8	+0.0	56.0	54.0	+2.0	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	4804.000M	47.6	+0.0	+8.0	+6.1	-39.8	+0.0	55.8	54.0	+1.8	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
79	4951.993M	36.0	+0.0	+8.4	+6.1	-39.6	+0.0	45.1	54.0	-8.9	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+0.0								
80	650.002M	33.2	+0.0	+2.7	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Vert
			+0.0	+0.0	+0.0	+20.5			R7_A1_HG2458_B		
			+5.8	+2.6	-28.0	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
81	4879.404M	36.6	+0.0	+8.2	+6.1	-39.7	+0.0	45.1	54.0	-8.9	Vert
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+0.0								

82	4960.000M	35.9	+0.0	+8.4	+6.1	-39.6	+0.0	45.0	54.0	-9.0	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
83	175.008M	43.4	+0.0	+1.3	+0.0	+0.0	+0.0	34.4	43.5	-9.1	Vert
			+0.0	+0.0	+0.0	+9.3			R7_A1_HG2458_B		
			+5.8	+1.2	-26.7	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
84	4804.000M	36.7	+0.0	+8.0	+6.1	-39.8	+0.0	44.9	54.0	-9.1	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
85	4804.000M	36.6	+0.0	+8.0	+6.1	-39.8	+0.0	44.8	54.0	-9.2	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	4804.000M	46.7	+0.0	+8.0	+6.1	-39.8	+0.0	54.9	54.0	+0.9	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	4804.000M	46.3	+0.0	+8.0	+6.1	-39.8	+0.0	54.5	54.0	+0.5	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	4803.978M	38.4	+0.0	+8.0	+6.1	-39.8	+0.0	46.6	54.0	-7.4	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
89	4960.000M	35.5	+0.0	+8.4	+6.1	-39.6	+0.0	44.6	54.0	-9.4	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
90	4960.000M	35.3	+0.0	+8.4	+6.1	-39.6	+0.0	44.4	54.0	-9.6	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	4960.000M	46.4	+0.0	+8.4	+6.1	-39.6	+0.0	55.5	54.0	+1.5	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	4960.000M	46.2	+0.0	+8.4	+6.1	-39.6	+0.0	55.3	54.0	+1.3	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
93	4880.000M	35.8	+0.0	+8.2	+6.1	-39.7	+0.0	44.3	54.0	-9.7	Vert
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
94	300.001M	39.9	+0.0	+1.8	+0.0	+0.0	+0.0	36.2	46.0	-9.8	Horiz
			+0.0	+0.0	+0.0	+13.4			R7_A1_HG2458_B		
			+5.8	+1.6	-26.5	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		

95	4964.000M	34.9	+0.0	+8.4	+6.1	-39.6	+0.0	44.0	54.0	-10.0	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
96	200.008M	42.3	+0.0	+1.4	+0.0	+0.0	+0.0	33.3	43.5	-10.2	Vert
			+0.0	+0.0	+0.0	+9.0			R7_A1_HG2458_B		
			+5.8	+1.3	-26.6	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
97	699.973M	31.1	+0.0	+2.8	+0.0	+0.0	+0.0	35.6	46.0	-10.4	Horiz
			+0.0	+0.0	+0.0	+20.7			R7_A1_HG2458_B		
			+5.9	+2.7	-27.9	+0.3			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
98	4964.000M	34.5	+0.0	+8.4	+6.1	-39.6	+0.0	43.6	54.0	-10.4	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A3_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
99	525.000M	34.1	+0.0	+2.5	+0.0	+0.0	+0.0	35.5	46.0	-10.5	Vert
			+0.0	+0.0	+0.0	+18.6			R7_A1_HG2458_B		
			+5.8	+2.3	-28.0	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
100	4880.000M	35.0	+0.0	+8.2	+6.1	-39.7	+0.0	43.5	54.0	-10.5	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
101	4960.000M	34.3	+0.0	+8.4	+6.1	-39.6	+0.0	43.4	54.0	-10.6	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	4960.000M	46.2	+0.0	+8.4	+6.1	-39.6	+0.0	55.3	54.0	+1.3	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	4960.000M	45.3	+0.0	+8.4	+6.1	-39.6	+0.0	54.4	54.0	+0.4	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
104	4964.000M	34.2	+0.0	+8.4	+6.1	-39.6	+0.0	43.3	54.0	-10.7	Vert
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A4_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	4964.000M	45.1	+0.0	+8.4	+6.1	-39.6	+0.0	54.2	54.0	+0.2	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A3_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	4964.000M	44.8	+0.0	+8.4	+6.1	-39.6	+0.0	53.9	54.0	-0.1	Vert
			+0.4	+33.5	+0.3	+0.0			R8_A4_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	4964.002M	36.1	+0.0	+8.4	+6.1	-39.6	+0.0	45.2	54.0	-8.8	Vert
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		

108	599.999M	32.0	+0.0	+2.6	+0.0	+0.0	+0.0	35.3	46.0	-10.7	Horiz
			+0.0	+0.0	+0.0	+20.3			R7_A1_HG2458_B		
			+5.8	+2.4	-28.0	+0.2			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
109	375.006M	37.1	+0.0	+2.0	+0.0	+0.0	+0.0	35.3	46.0	-10.7	Vert
			+0.0	+0.0	+0.0	+15.4			R7_A1_HG2458_B		
			+5.8	+1.9	-27.1	+0.2			LE_LMH,R7_A1_-		
			+0.0						HG2458_DTS		
110	2484.910M	34.9	+0.0	+5.5	+4.1	-40.2	+0.0	43.3	54.0	-10.7	Horiz
Ave			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.2								
^	2484.910M	45.1	+0.0	+5.5	+4.1	-40.2	+0.0	53.5	54.0	-0.5	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.2								
112	4880.090M	34.7	+0.0	+8.2	+6.1	-39.7	+0.0	43.2	54.0	-10.8	Vert
Ave			+0.4	+33.2	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	4880.000M	45.9	+0.0	+8.2	+6.1	-39.7	+0.0	54.4	54.0	+0.4	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	4880.090M	45.2	+0.0	+8.2	+6.1	-39.7	+0.0	53.7	54.0	-0.3	Vert
			+0.4	+33.2	+0.3	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
115	4879.700M	34.5	+0.0	+8.2	+6.1	-39.7	+0.0	43.0	54.0	-11.0	Horiz
Ave			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+0.0								
^	4879.700M	47.5	+0.0	+8.2	+6.1	-39.7	+0.0	56.0	54.0	+2.0	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+0.0								
117	2504.017M	34.6	+0.0	+5.5	+4.1	-40.2	+0.0	43.0	54.0	-11.0	Horiz
Ave			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.2								
^	2504.017M	45.4	+0.0	+5.5	+4.1	-40.2	+0.0	53.8	54.0	-0.2	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.2								
119	4811.546M	34.7	+0.0	+8.0	+6.1	-39.8	+0.0	42.9	54.0	-11.1	Horiz
Ave			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								
^	4811.546M	47.0	+0.0	+8.0	+6.1	-39.8	+0.0	55.2	54.0	+1.2	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+0.0								

121	4964.000M	33.7	+0.0	+8.4	+6.1	-39.6	+0.0	42.8	54.0	-11.2	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R8_A2_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	4964.000M	45.5	+0.0	+8.4	+6.1	-39.6	+0.0	54.6	54.0	+0.6	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	4964.000M	44.6	+0.0	+8.4	+6.1	-39.6	+0.0	53.7	54.0	-0.3	Horiz
			+0.4	+33.5	+0.3	+0.0			R8_A2_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
124	474.992M	34.5	+0.0	+2.3	+0.0	+0.0	+0.0	34.7	46.0	-11.3	Vert
			+0.0	+0.0	+0.0	+17.5			R7_A1_HG2458_B		
			+5.8	+2.2	-27.8	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
125	4880.000M	34.1	+0.0	+8.2	+6.1	-39.7	+0.0	42.6	54.0	-11.4	Horiz
	Ave		+0.4	+33.2	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	4880.000M	45.4	+0.0	+8.2	+6.1	-39.7	+0.0	53.9	54.0	-0.1	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	4880.000M	42.9	+0.0	+8.2	+6.1	-39.7	+0.0	51.4	54.0	-2.6	Horiz
			+0.4	+33.2	+0.3	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	4880.059M	37.8	+0.0	+8.2	+6.1	-39.7	+0.0	46.3	54.0	-7.7	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
129	300.005M	38.2	+0.0	+1.8	+0.0	+0.0	+0.0	34.5	46.0	-11.5	Vert
			+0.0	+0.0	+0.0	+13.4			R7_A1_HG2458_B		
			+5.8	+1.6	-26.5	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
130	400.005M	35.6	+0.0	+2.1	+0.0	+0.0	+0.0	34.4	46.0	-11.6	Horiz
			+0.0	+0.0	+0.0	+16.0			R7_A1_HG2458_B		
			+5.8	+2.0	-27.3	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
131	2520.877M	33.9	+0.0	+5.5	+4.1	-40.2	+0.0	42.3	54.0	-11.7	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
^	2520.877M	45.3	+0.0	+5.5	+4.1	-40.2	+0.0	53.7	54.0	-0.3	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
133	4803.870M	34.1	+0.0	+8.0	+6.1	-39.8	+0.0	42.3	54.0	-11.7	Horiz
			+0.4	+33.2	+0.3	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								

134	2376.102M	34.1	+0.0	+5.4	+4.0	-39.9	+0.0	42.3	54.0	-11.7	Horiz
	Ave		+0.3	+28.3	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.1								
135	200.010M	40.5	+0.0	+1.4	+0.0	+0.0	+0.0	31.5	43.5	-12.0	Horiz
			+0.0	+0.0	+0.0	+9.0			R7_A1_HG2458_B		
			+5.8	+1.3	-26.6	+0.1			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
136	450.006M	33.5	+0.0	+2.2	+0.0	+0.0	+0.0	33.3	46.0	-12.7	Horiz
			+0.0	+0.0	+0.0	+17.1			R7_A1_HG2458_B		
			+5.8	+2.1	-27.6	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
137	4963.440M	32.0	+0.0	+8.4	+6.1	-39.6	+0.0	41.1	54.0	-12.9	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		
^	4963.440M	45.2	+0.0	+8.4	+6.1	-39.6	+0.0	54.3	54.0	+0.3	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		
139	375.003M	34.5	+0.0	+2.0	+0.0	+0.0	+0.0	32.7	46.0	-13.3	Horiz
			+0.0	+0.0	+0.0	+15.4			R7_A1_HG2458_B		
			+5.8	+1.9	-27.1	+0.2			LE_LMH,R7_A1_		
			+0.0						HG2458_DTS		
140	2524.913M	31.9	+0.0	+5.5	+4.1	-40.2	+0.0	40.4	54.0	-13.6	Horiz
	Ave		+0.3	+28.6	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+10.2								
^	2524.913M	44.2	+0.0	+5.5	+4.1	-40.2	+0.0	52.7	54.0	-1.3	Horiz
			+0.3	+28.6	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+10.2								
142	2520.419M	32.0	+0.0	+5.5	+4.1	-40.2	+0.0	40.4	54.0	-13.6	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+10.2								
^	2520.419M	44.8	+0.0	+5.5	+4.1	-40.2	+0.0	53.2	54.0	-0.8	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+10.2								
144	2526.730M	31.7	+0.0	+5.5	+4.1	-40.2	+0.0	40.2	54.0	-13.8	Horiz
	Ave		+0.3	+28.6	+0.0	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+10.2								
^	2526.730M	42.8	+0.0	+5.5	+4.1	-40.2	+0.0	51.3	54.0	-2.7	Horiz
			+0.3	+28.6	+0.0	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+10.2								

146	2366.906M	31.8	+0.0	+5.4	+4.0	-39.9	+0.0	40.1	54.0	-13.9	Horiz
	Ave		+0.3	+28.4	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+10.1								
^	2366.906M	45.2	+0.0	+5.4	+4.0	-39.9	+0.0	53.5	54.0	-0.5	Horiz
			+0.3	+28.4	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+10.1								
148	7205.295M	25.3	+0.0	+10.7	+7.5	-39.6	+0.0	40.0	54.0	-14.0	Vert
	Ave		+0.1	+35.8	+0.2	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	7205.295M	38.0	+0.0	+10.7	+7.5	-39.6	+0.0	52.7	54.0	-1.3	Vert
			+0.1	+35.8	+0.2	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
150	2515.032M	31.5	+0.0	+5.5	+4.1	-40.2	+0.0	39.9	54.0	-14.1	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
^	2515.032M	44.4	+0.0	+5.5	+4.1	-40.2	+0.0	52.8	54.0	-1.2	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
152	2363.717M	31.5	+0.0	+5.4	+4.0	-39.9	+0.0	39.8	54.0	-14.2	Horiz
	Ave		+0.3	+28.4	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+10.1								
^	2363.717M	44.5	+0.0	+5.4	+4.0	-39.9	+0.0	52.8	54.0	-1.2	Horiz
			+0.3	+28.4	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+10.1								
154	2518.728M	31.4	+0.0	+5.5	+4.1	-40.2	+0.0	39.8	54.0	-14.2	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+10.2								
^	2518.728M	44.5	+0.0	+5.5	+4.1	-40.2	+0.0	52.9	54.0	-1.1	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+10.2								
156	2342.200M	31.7	+0.0	+5.3	+3.9	-39.9	+0.0	39.8	54.0	-14.2	Horiz
	Ave		+0.3	+28.4	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+10.1								
^	2342.200M	44.2	+0.0	+5.3	+3.9	-39.9	+0.0	52.3	54.0	-1.7	Horiz
			+0.3	+28.4	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_L_L2		
			+10.1								

158	2518.870M	31.3	+0.0	+5.5	+4.1	-40.2	+0.0	39.7	54.0	-14.3	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+10.2								
^	2518.870M	44.5	+0.0	+5.5	+4.1	-40.2	+0.0	52.9	54.0	-1.1	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+10.2								
160	2540.000M	31.2	+0.0	+5.5	+4.1	-40.2	+0.0	39.7	54.0	-14.3	Horiz
	Ave		+0.3	+28.6	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
^	2540.000M	43.5	+0.0	+5.5	+4.1	-40.2	+0.0	52.0	54.0	-2.0	Horiz
			+0.3	+28.6	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+10.2						TS		
162	2515.314M	31.3	+0.0	+5.5	+4.1	-40.2	+0.0	39.7	54.0	-14.3	Horiz
	Ave		+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+10.2								
^	2515.314M	45.0	+0.0	+5.5	+4.1	-40.2	+0.0	53.4	54.0	-0.6	Horiz
			+0.3	+28.5	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+10.2								
164	4951.387M	30.3	+0.0	+8.4	+6.1	-39.6	+0.0	39.4	54.0	-14.6	Horiz
	Ave		+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+0.0								
^	4951.387M	44.0	+0.0	+8.4	+6.1	-39.6	+0.0	53.1	54.0	-0.9	Horiz
			+0.4	+33.5	+0.3	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H_H2		
			+0.0								
166	2338.025M	31.3	+0.0	+5.3	+3.9	-39.9	+0.0	39.3	54.0	-14.7	Horiz
	Ave		+0.3	+28.3	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+10.1								
^	2338.025M	45.4	+0.0	+5.3	+3.9	-39.9	+0.0	53.4	54.0	-0.6	Horiz
			+0.3	+28.3	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+10.1								
168	2376.066M	31.0	+0.0	+5.4	+4.0	-39.9	+0.0	39.2	54.0	-14.8	Horiz
	Ave		+0.3	+28.3	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+10.1								
^	2376.102M	45.4	+0.0	+5.4	+4.0	-39.9	+0.0	53.6	54.0	-0.4	Horiz
			+0.3	+28.3	+0.0	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+10.1								
^	2376.066M	44.8	+0.0	+5.4	+4.0	-39.9	+0.0	53.0	54.0	-1.0	Horiz
			+0.3	+28.3	+0.0	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+10.1								

171	7319.487M	23.4	+0.0	+10.8	+7.6	-39.8	+0.0	38.5	54.0	-15.5	Horiz
Ave			+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+0.0								
^	7319.487M	37.3	+0.0	+10.8	+7.6	-39.8	+0.0	52.4	54.0	-1.6	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_M_M		
			+0.0								
173	7206.790M	23.6	+0.0	+10.7	+7.5	-39.6	+0.0	38.3	54.0	-15.7	Vert
Ave			+0.1	+35.8	+0.2	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	7206.790M	36.6	+0.0	+10.7	+7.5	-39.6	+0.0	51.3	54.0	-2.7	Vert
			+0.1	+35.8	+0.2	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	7206.872M	34.6	+0.0	+10.7	+7.5	-39.6	+0.0	49.3	54.0	-4.7	Vert
			+0.1	+35.8	+0.2	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
176	7319.353M	23.2	+0.0	+10.8	+7.6	-39.8	+0.0	38.3	54.0	-15.7	Vert
Ave			+0.1	+36.2	+0.2	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
177	7205.453M	23.5	+0.0	+10.7	+7.5	-39.6	+0.0	38.2	54.0	-15.8	Horiz
Ave			+0.1	+35.8	+0.2	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	7205.453M	35.9	+0.0	+10.7	+7.5	-39.6	+0.0	50.6	54.0	-3.4	Horiz
			+0.1	+35.8	+0.2	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
^	7205.410M	34.4	+0.0	+10.7	+7.5	-39.6	+0.0	49.1	54.0	-4.9	Horiz
			+0.1	+35.8	+0.2	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_L		
			+0.0								
180	7440.650M	21.8	+0.0	+11.1	+7.7	-39.7	+0.0	37.7	54.0	-16.3	Vert
Ave			+0.2	+36.4	+0.2	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	7440.650M	34.2	+0.0	+11.1	+7.7	-39.7	+0.0	50.1	54.0	-3.9	Vert
			+0.2	+36.4	+0.2	+0.0			R7_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								

182	7319.335M	22.6	+0.0	+10.8	+7.6	-39.8	+0.0	37.7	54.0	-16.3	Vert
	Ave		+0.1	+36.2	+0.2	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7319.353M	36.2	+0.0	+10.8	+7.6	-39.8	+0.0	51.3	54.0	-2.7	Vert
			+0.1	+36.2	+0.2	+0.0			R7_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7319.335M	35.5	+0.0	+10.8	+7.6	-39.8	+0.0	50.6	54.0	-3.4	Vert
			+0.1	+36.2	+0.2	+0.0			R8_A3_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
185	7440.816M	21.5	+0.0	+11.1	+7.7	-39.7	+0.0	37.4	54.0	-16.6	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	7440.816M	35.7	+0.0	+11.1	+7.7	-39.7	+0.0	51.6	54.0	-2.4	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	7440.735M	33.6	+0.0	+11.1	+7.7	-39.7	+0.0	49.5	54.0	-4.5	Horiz
			+0.2	+36.4	+0.2	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
188	7319.283M	22.2	+0.0	+10.8	+7.6	-39.8	+0.0	37.3	54.0	-16.7	Horiz
	Ave		+0.1	+36.2	+0.2	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
189	7440.593M	21.4	+0.0	+11.1	+7.7	-39.7	+0.0	37.3	54.0	-16.7	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
^	7440.593M	34.7	+0.0	+11.1	+7.7	-39.7	+0.0	50.6	54.0	-3.4	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_H		
			+0.0								
191	7446.592M	21.3	+0.0	+11.1	+7.7	-39.7	+0.0	37.2	54.0	-16.8	Horiz
	Ave		+0.2	+36.4	+0.2	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								
^	7446.592M	34.3	+0.0	+11.1	+7.7	-39.7	+0.0	50.2	54.0	-3.8	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_HG2458_D		
			+0.0	+0.0	+0.0	+0.0			TS		
			+0.0								

193	7319.323M	22.0	+0.0	+10.8	+7.6	-39.8	+0.0	37.1	54.0	-16.9	Horiz
Ave			+0.1	+36.2	+0.2	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7319.323M	35.0	+0.0	+10.8	+7.6	-39.8	+0.0	50.1	54.0	-3.9	Horiz
			+0.1	+36.2	+0.2	+0.0			R8_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7319.283M	34.9	+0.0	+10.8	+7.6	-39.8	+0.0	50.0	54.0	-4.0	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A1_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7319.412M	34.2	+0.0	+10.8	+7.6	-39.8	+0.0	49.3	54.0	-4.7	Horiz
			+0.1	+36.2	+0.2	+0.0			R7_A2_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
197	7321.035M	21.7	+0.0	+10.8	+7.6	-39.8	+0.0	36.8	54.0	-17.2	Vert
Ave			+0.1	+36.2	+0.2	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
^	7321.035M	35.3	+0.0	+10.8	+7.6	-39.8	+0.0	50.4	54.0	-3.6	Vert
			+0.1	+36.2	+0.2	+0.0			R8_A4_HG2458_B		
			+0.0	+0.0	+0.0	+0.0			LE_M		
			+0.0								
199	7427.835M	20.5	+0.0	+11.1	+7.7	-39.7	+0.0	36.4	54.0	-17.6	Horiz
Ave			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		
^	7427.835M	35.0	+0.0	+11.1	+7.7	-39.7	+0.0	50.9	54.0	-3.1	Horiz
			+0.2	+36.4	+0.2	+0.0			R7_A1_R8_A2_H		
			+0.0	+0.0	+0.0	+0.0			G2458_BLE_H2_D		
			+0.0						TS		

Band Edge

Band Edge Summary – Antenna 1

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
2390.0	BLE	PA2x2	38.1 pk	<54	Pass
2400.0	BLE	PA2x2	64.6 pk	<76.8	Pass
2483.5	BLE	PA2x2	31.5 ave	<54	Pass
2483.5	DTS	PA2x2	51.3 Pk*	<74	Pass
2483.5	DTS	PA2x2	45.3 ave	<54	Pass
2390	BLE + BLE (L, L+2)	PA2x2	43.0 pk	<54	Pass
2400	BLE + BLE (L, L+2)	PA2x2	64.2 pk	<76.8	Pass
2483.5	BLE+BLE (H, H-2)	PA2x2	36.2 ave	<54	Pass
2483.5	BLE(H-2) + DTS	PA2x2	52.3 pk *	<74	Pass
2483.5	BLE(H-2) + DTS	PA2x2	49.3 ave	<54	Pass

*delta marker corrected

Band Edge Summary – Antenna 2

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
2390.0	BLE	MA510 R7	43.2 pk	<54	Pass
2400.0	BLE	MA510 R7	68.5 pk	<76.8	Pass
2483.5	BLE	MA510 R7	32.1 ave	<54	Pass
2483.5	DTS	MA510 R7	52.9 pk*	<74	Pass
2483.5	DTS	MA510 R7	46.6 ave	<54	Pass
2390.0	BLE + BLE (L, L+2)	MA510 R7 R8	44.8 pk	<54	Pass
2400.0	BLE + BLE (L, L+2)	MA510 R7 R8	66.5 pk	<76.8	Pass
2483.5	BLE+BLE (H, H-2)	MA510 R7 R8	41.7 ave	<54	Pass
2483.5	BLE(H-2) + DTS	MA510 R7 R8	50.2 pk*	<74	Pass
2483.5	BLE(H-2) + DTS	MA510 R7 R8	48.5 ave	<54	Pass

*delta marker corrected (100kHz)

Band Edge Summary – Antenna 3

Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
2390.0	BLE	MA673 R7A1	42.5pk	<54	Pass
2400.0	BLE	MA673 R7A1	69.1pk	<78.5	Pass
2483.5	BLE	MA673 R7A1	33.1ave	<54	Pass
2483.5	BLE	MA673 R7A1	58.6pk	<74	Pass
2483.5	DTS	MA673 R7A1	47.5ave	<54	Pass
2483.5	DTS	MA673 R7A1	51.1pk*	<74	Pass
<hr/>					
2390.0	BLE + BLE (L, L+2)	MA673 R7A1R8A2	50.3pk	<54	Pass
2400.0	BLE + BLE (L, L+2)	MA673 R7A1R8A2	68.3pk	<78.5	Pass
2483.5	BLE+BLE (H, H-2)	MA673 R7A1R8A2	34.5ave	<54	Pass
<hr/>					
2483.5	BLE(H-2) + DTS	MA673 R7A1R8A2	49.7pk*	<74	Pass
2483.5	BLE(H-2) + DTS	MA673 R7A1R8A2	47.5 ave	<54	Pass

*delta marker corrected

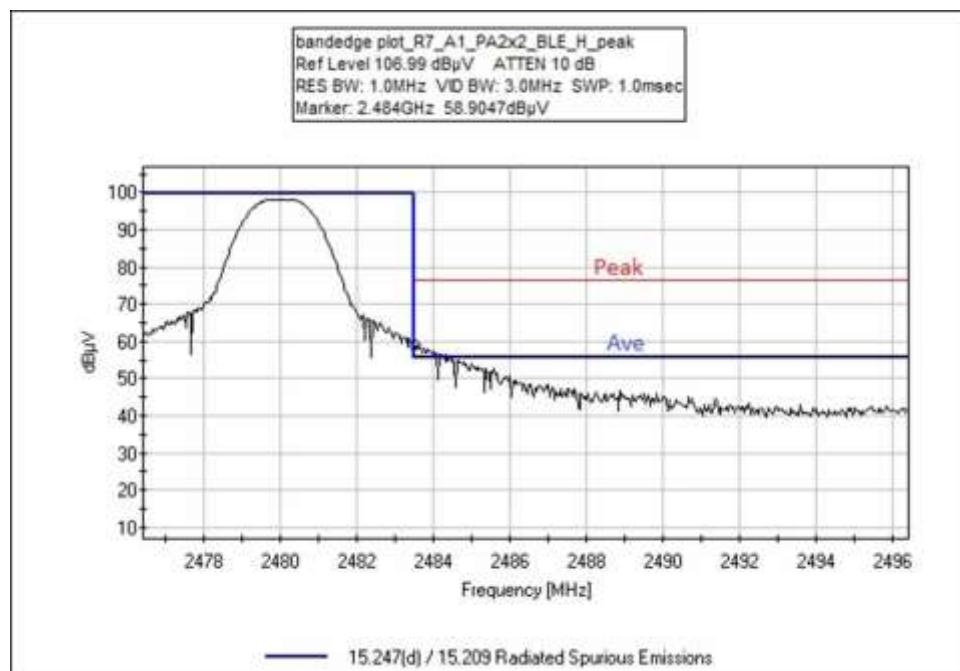
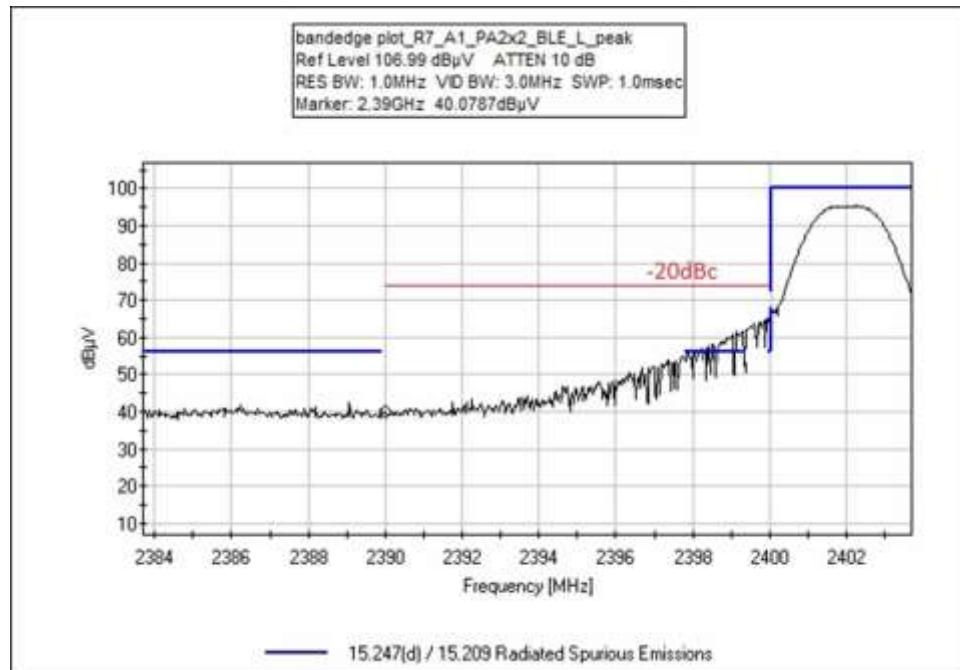
Band Edge Summary – Antenna 4

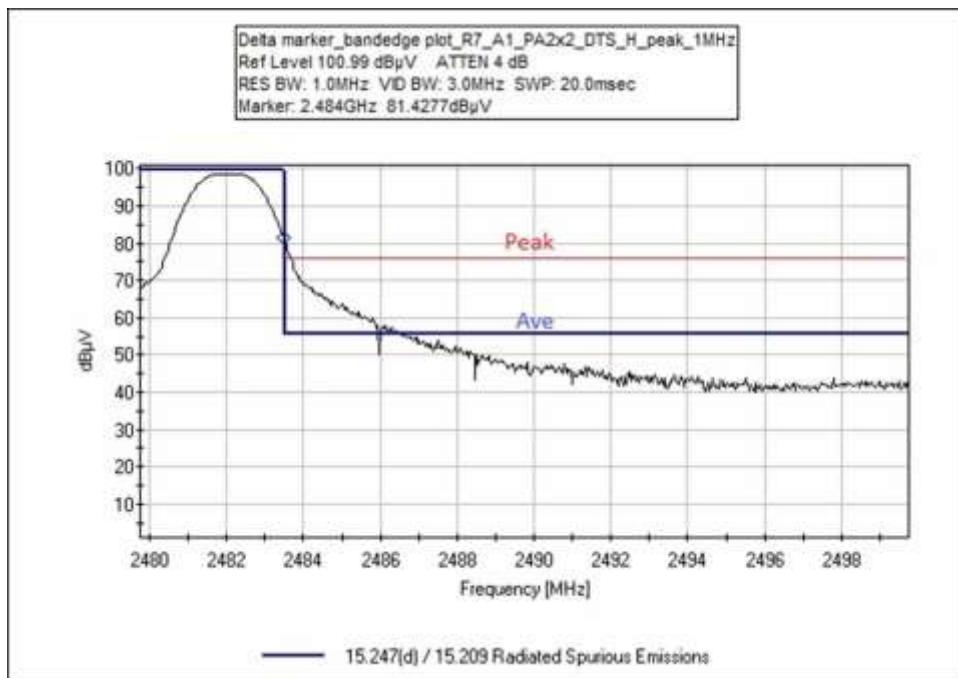
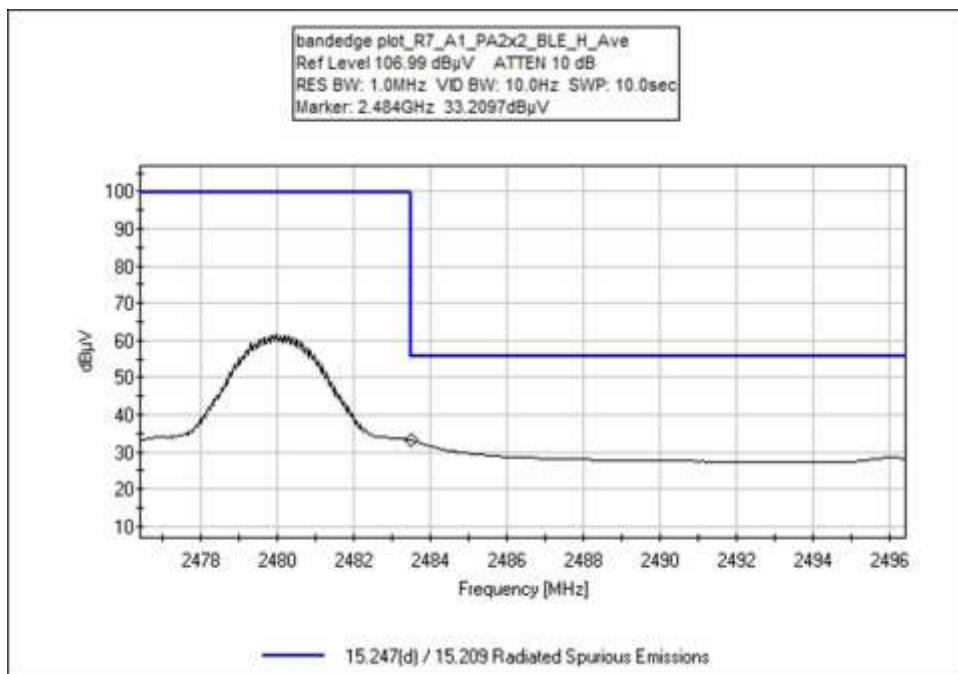
Frequency (MHz)	Modulation	Ant. Type	Field Strength (dBuV/m @3m)	Limit (dBuV/m @3m)	Results
2390.0	BLE	HG2458 R7A1	45.6pk	<54	Pass
2400.0	BLE	HG2458 R7A1	72.4pk	<82.9	Pass
2483.5	BLE	HG2458 R7A1	35.6ave	<54	Pass
2483.5	BLE	HG2458 R7A1	63.5pk	<74	Pass
2483.5	DTS	HG2458 R7A1	50.1ave	<54	Pass
2483.5	DTS	HG2458 R7A1	50.8pk*	<74	Pass
<hr/>					
2390.0	BLE + BLE (L, L+2)	HG2458 R7A1R8A2	46.1 pk	<54	Pass
2400.0	BLE + BLE (L, L+2)	HG2458 R7A1R8A2	72.1 pk	<82.9	Pass
2483.5	BLE+BLE (H, H-2)	HG2458 R7A1R8A2	37.8 ave	<54	Pass
<hr/>					
2483.5	BLE(H-2) + DTS	HG2458 R7A1R8A2	52.1pk*	<74	Pass
2483.5	BLE(H-2) + DTS	HG2458 R7A1R8A2	52.2ave	<54	Pass

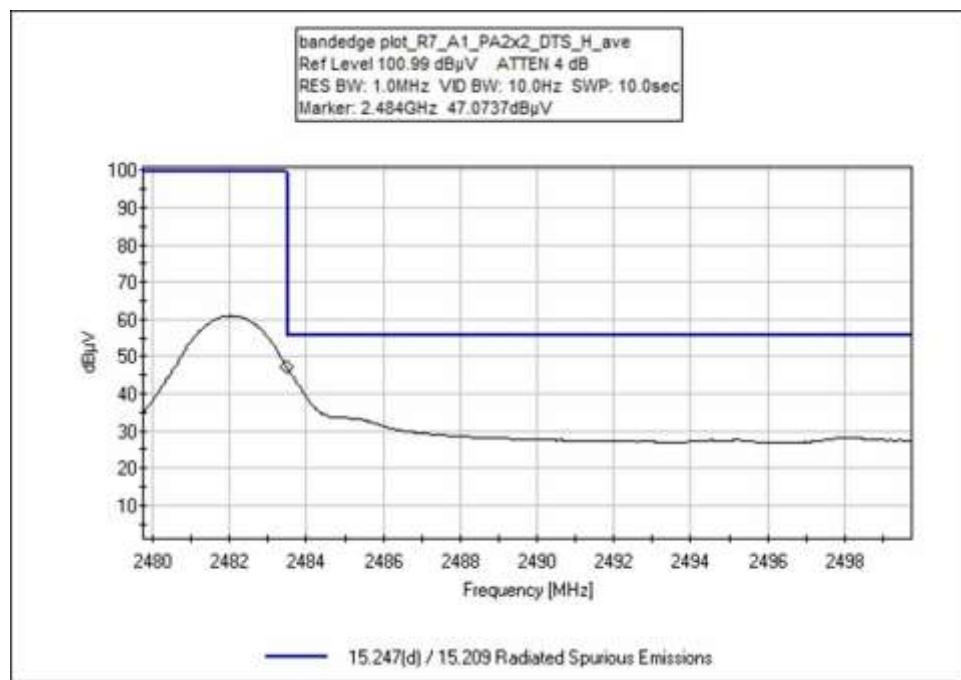
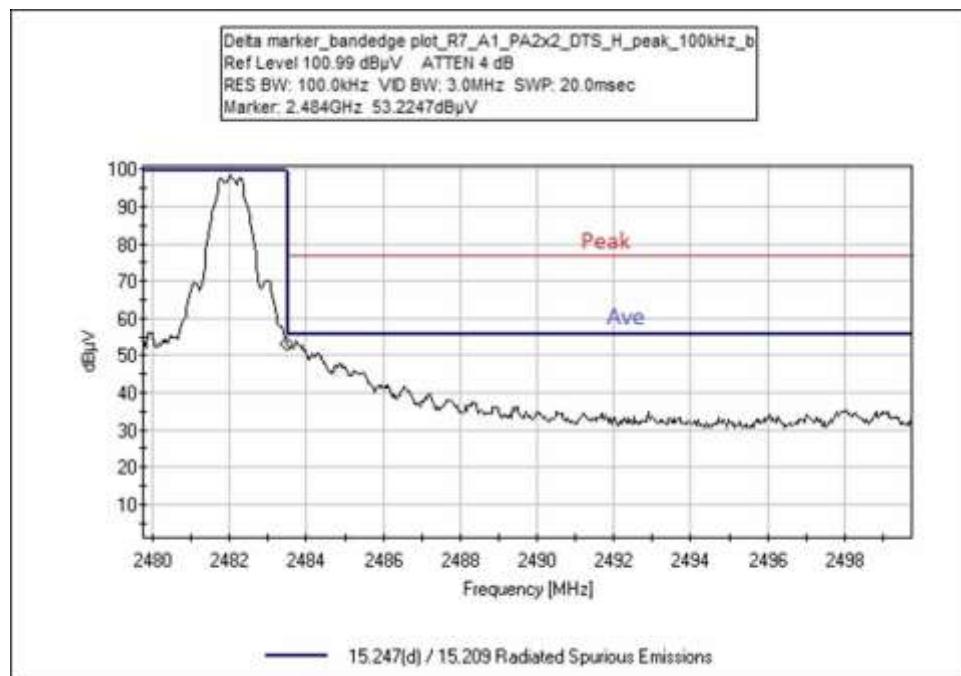
*delta marker corrected

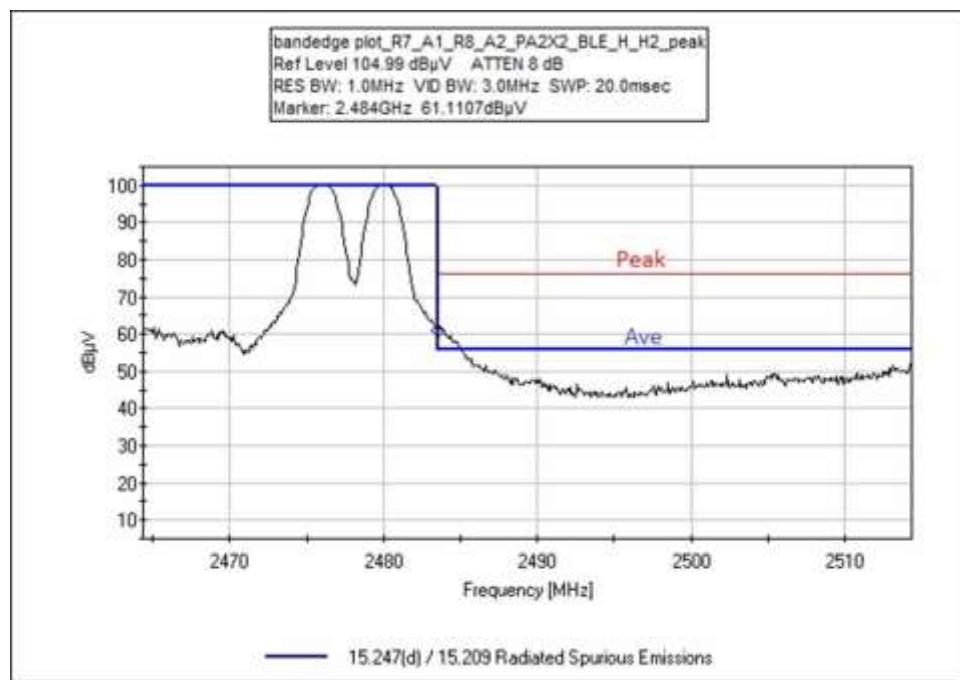
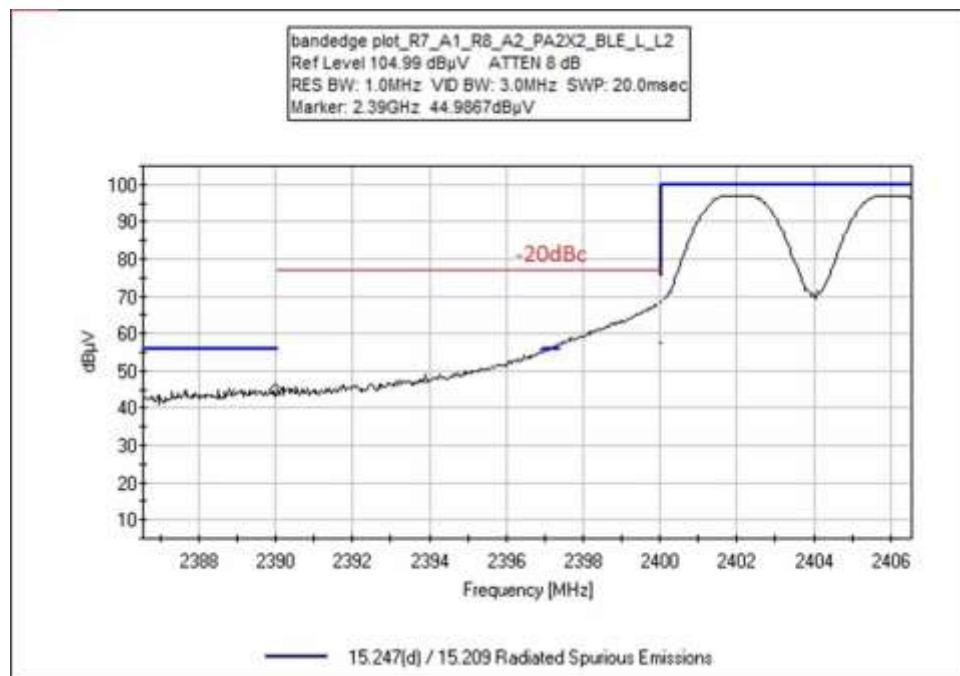
Band Edge Plots

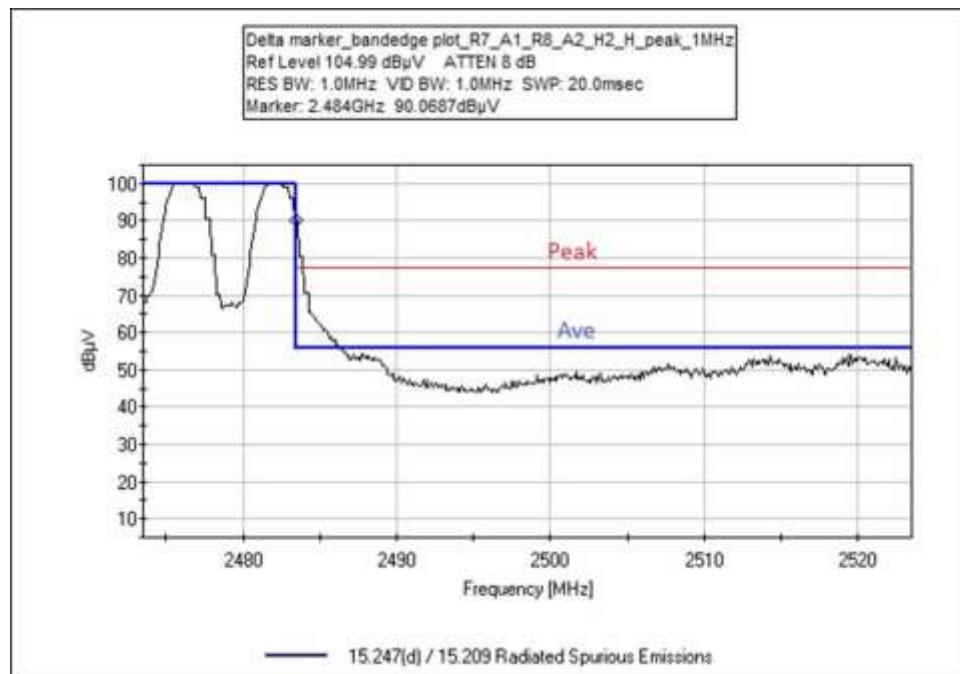
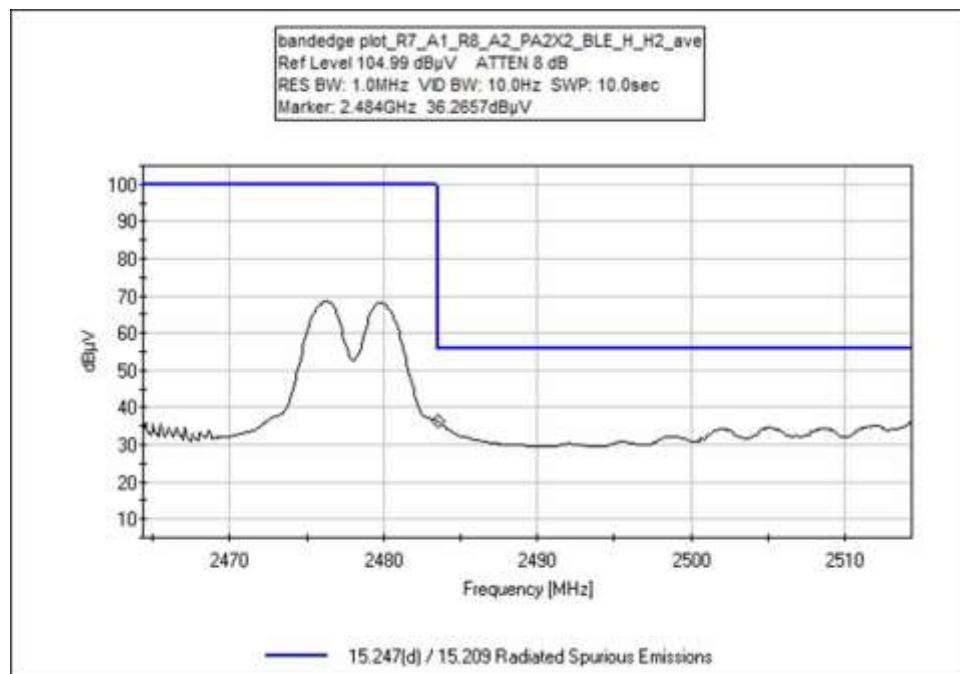
Antenna 1

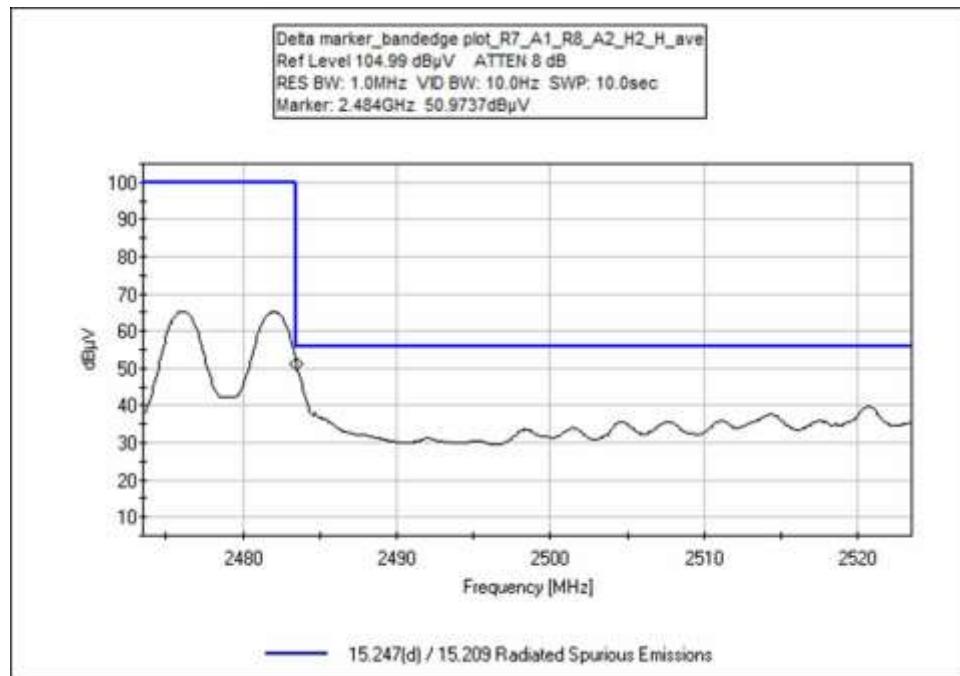
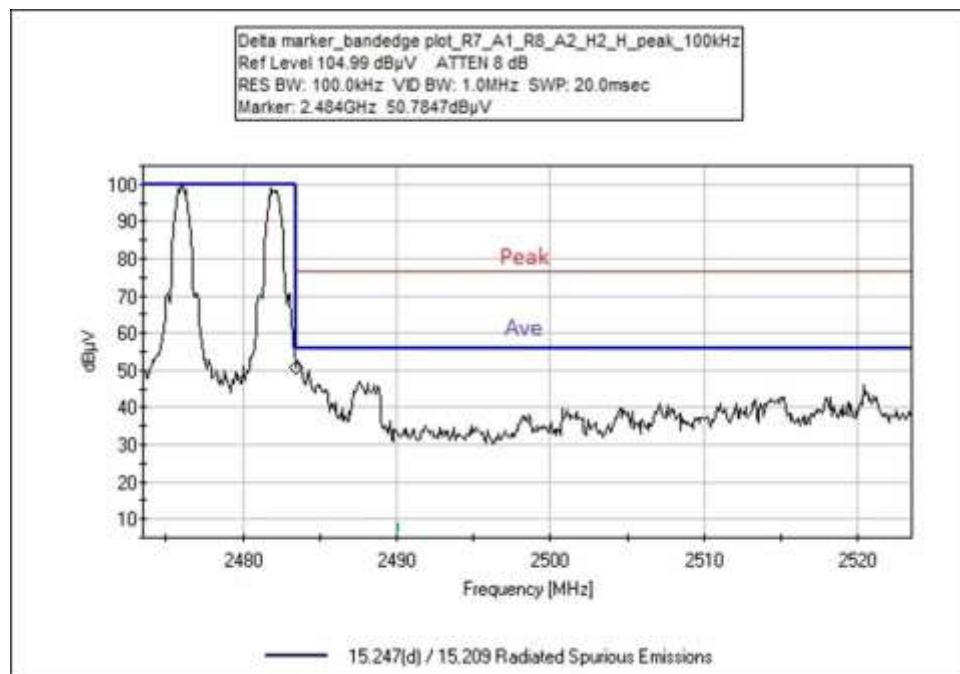




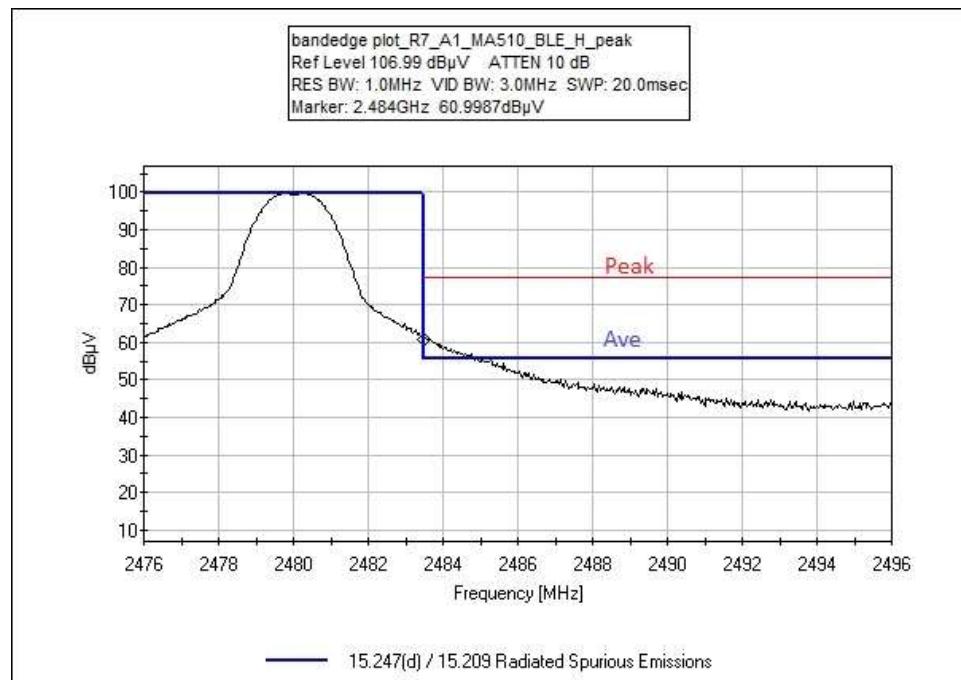
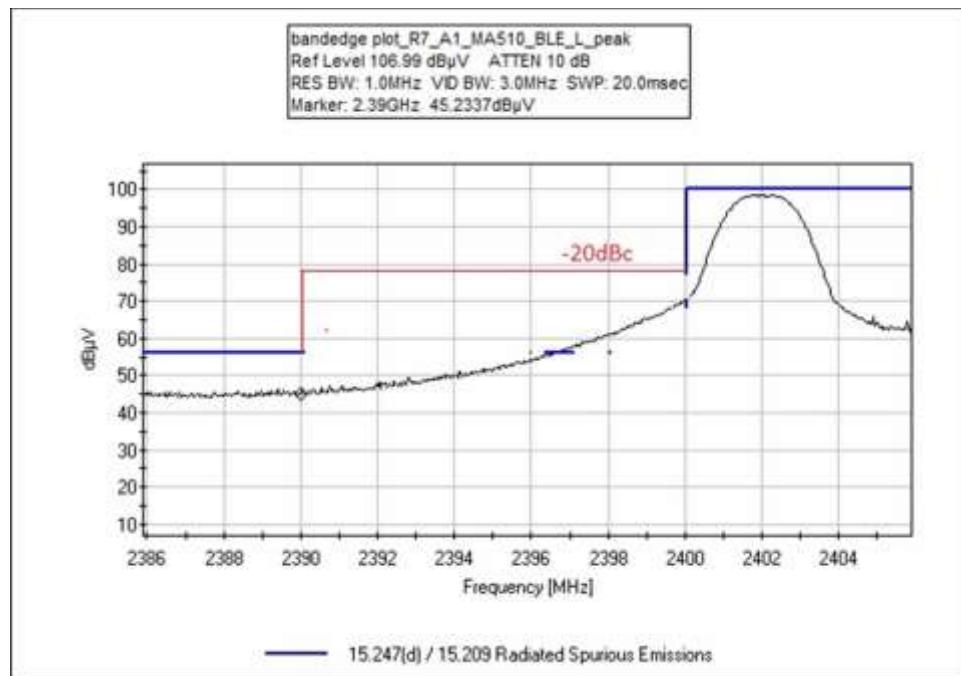


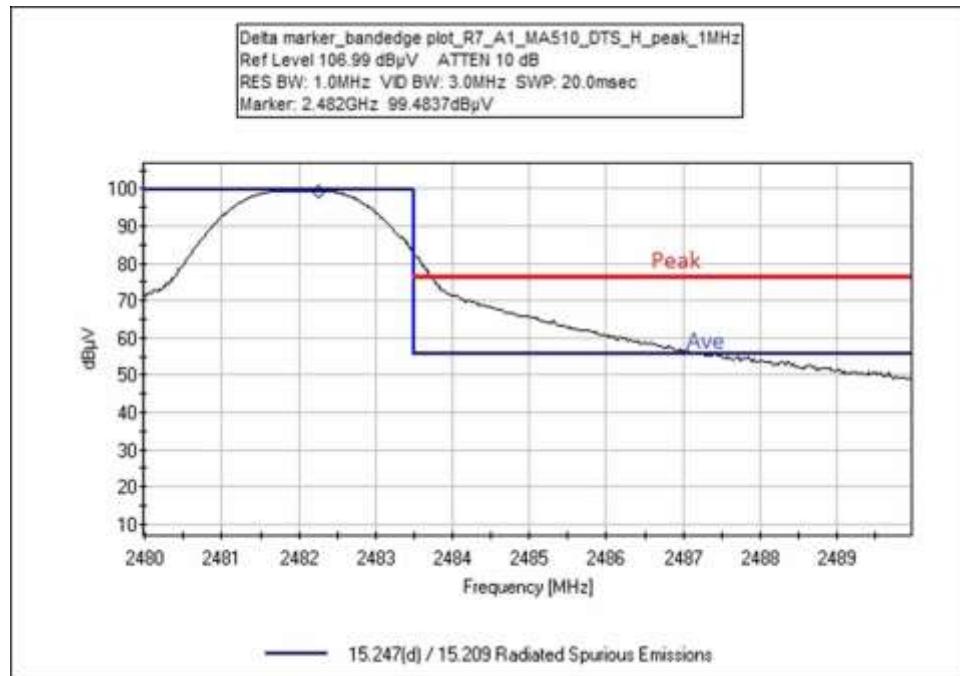
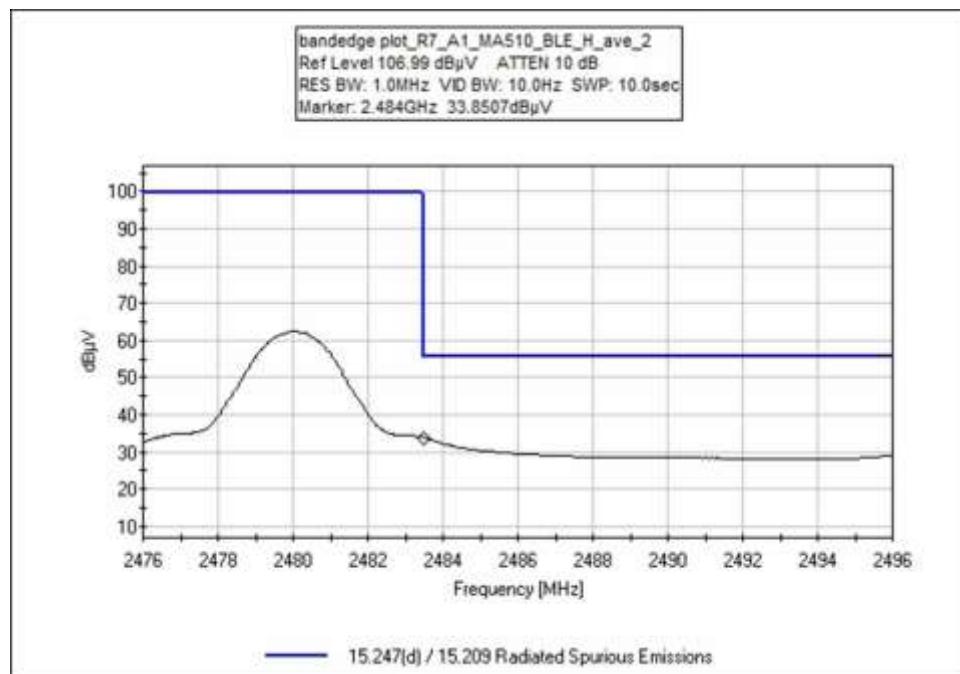


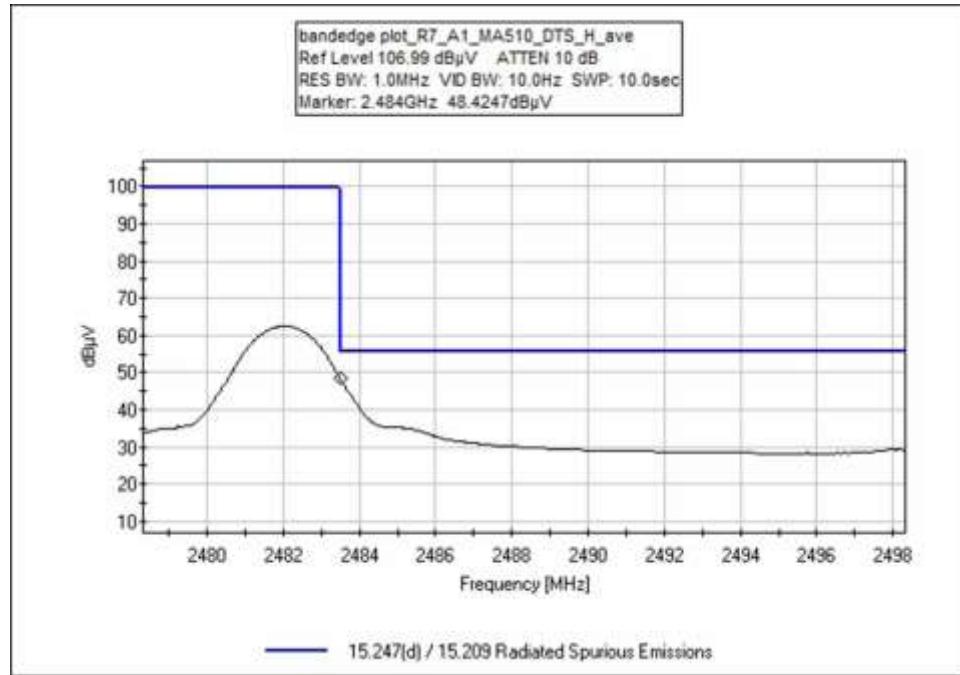
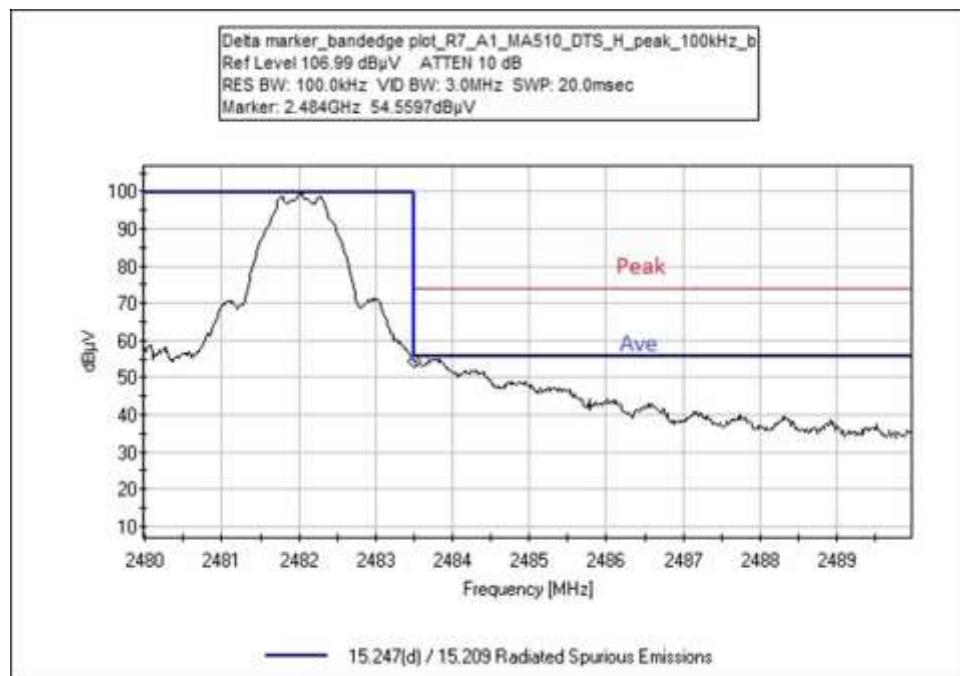


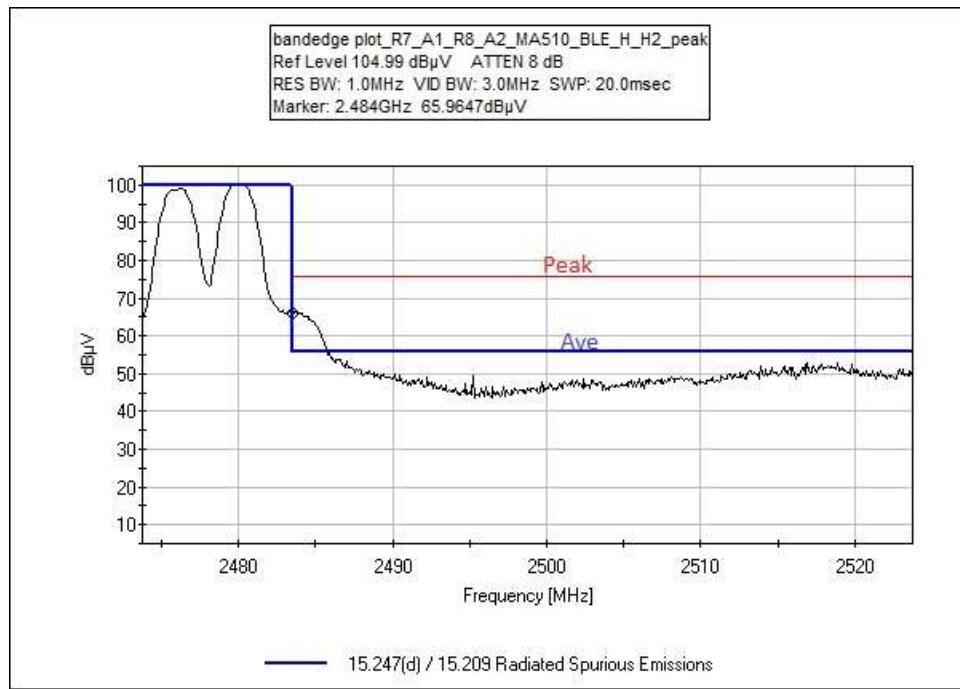
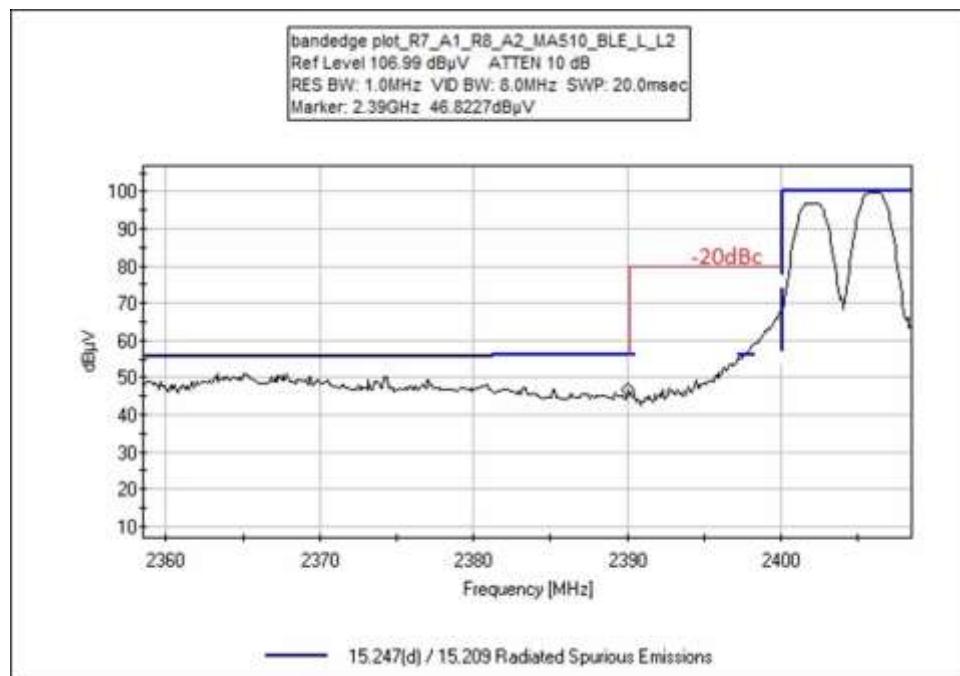


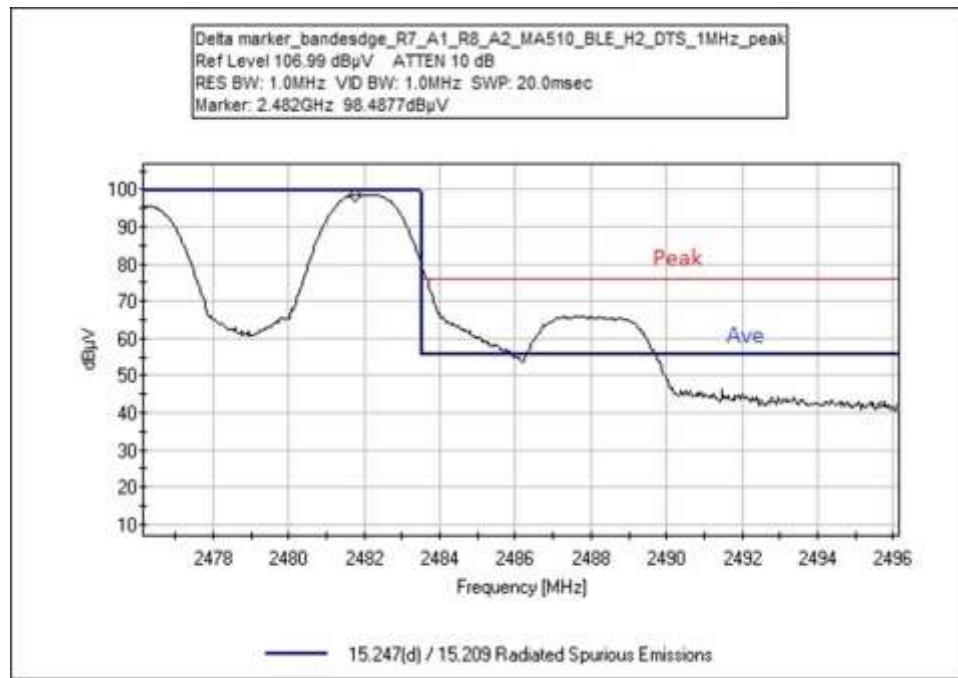
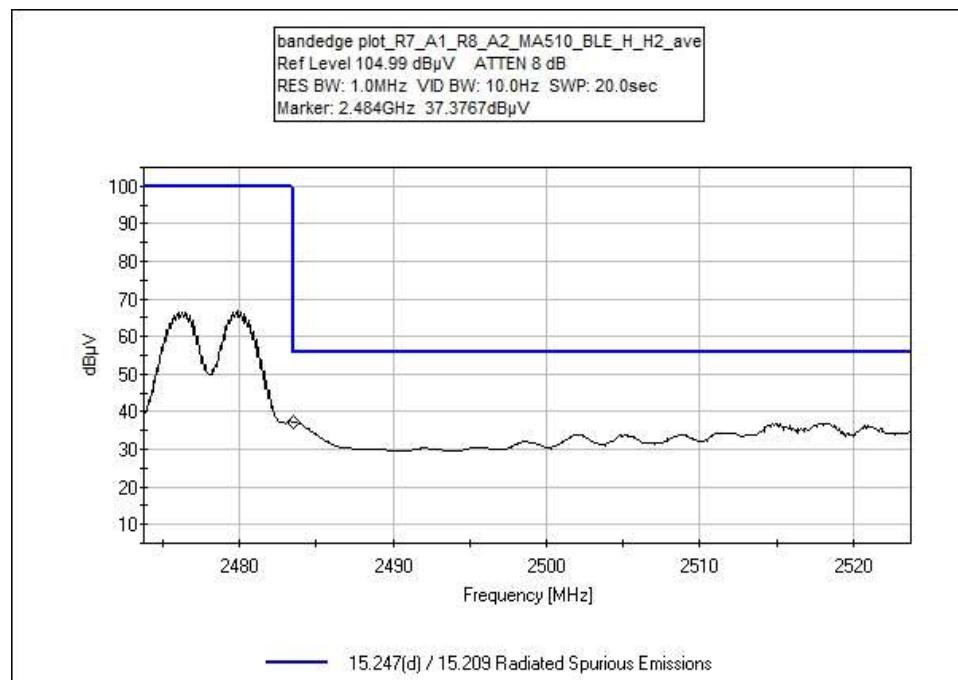
Antenna 2

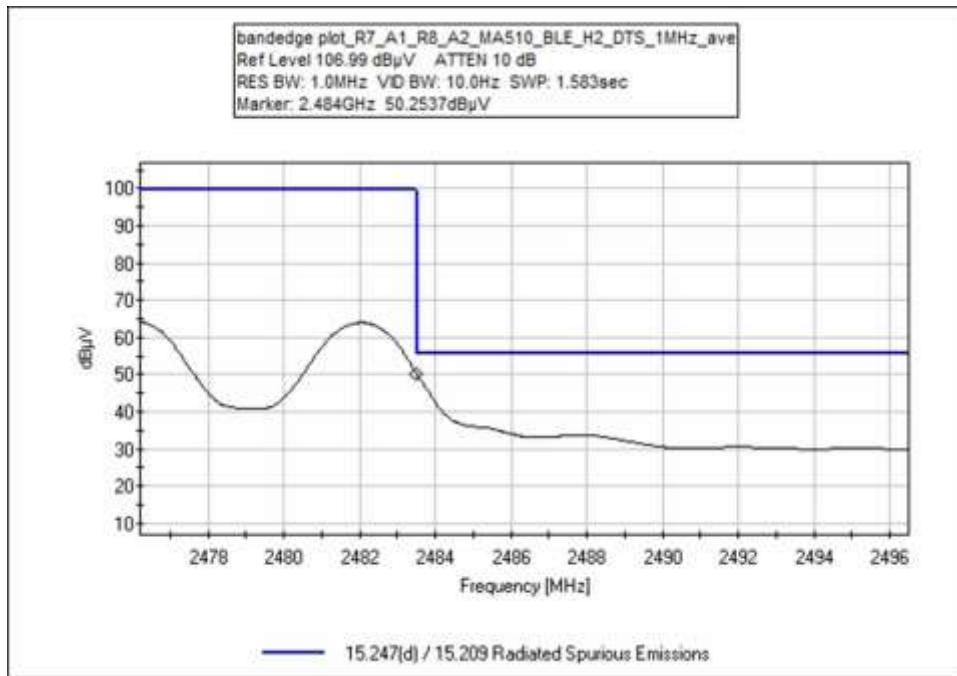
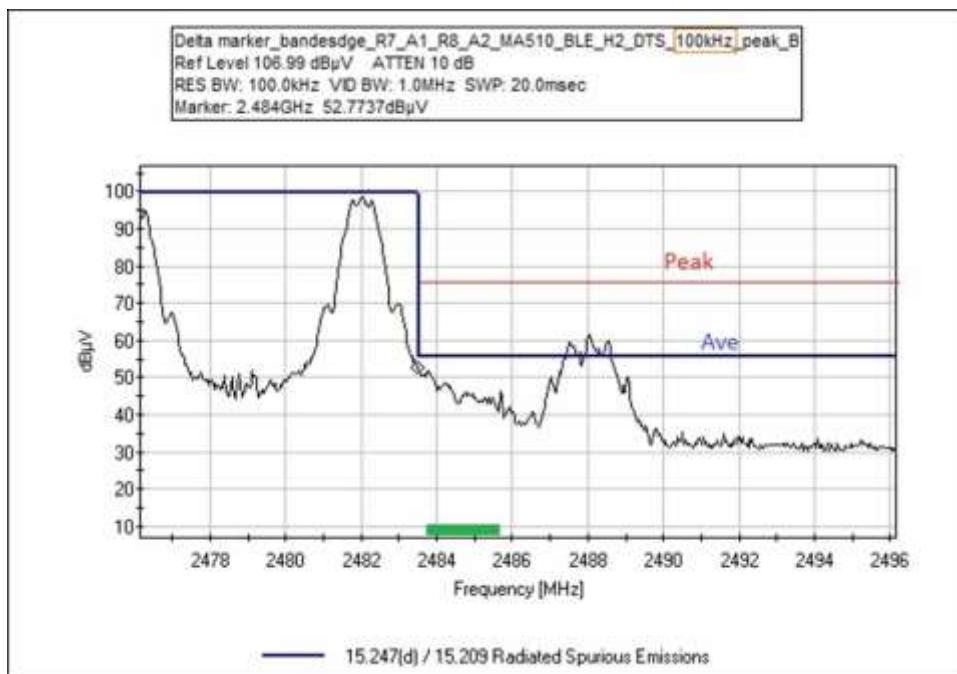




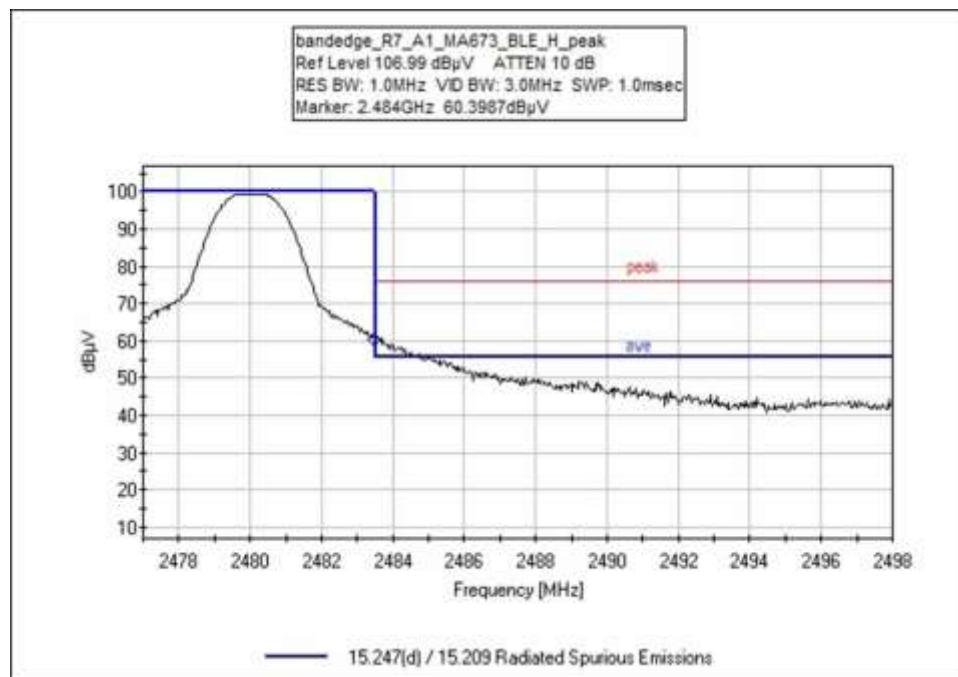
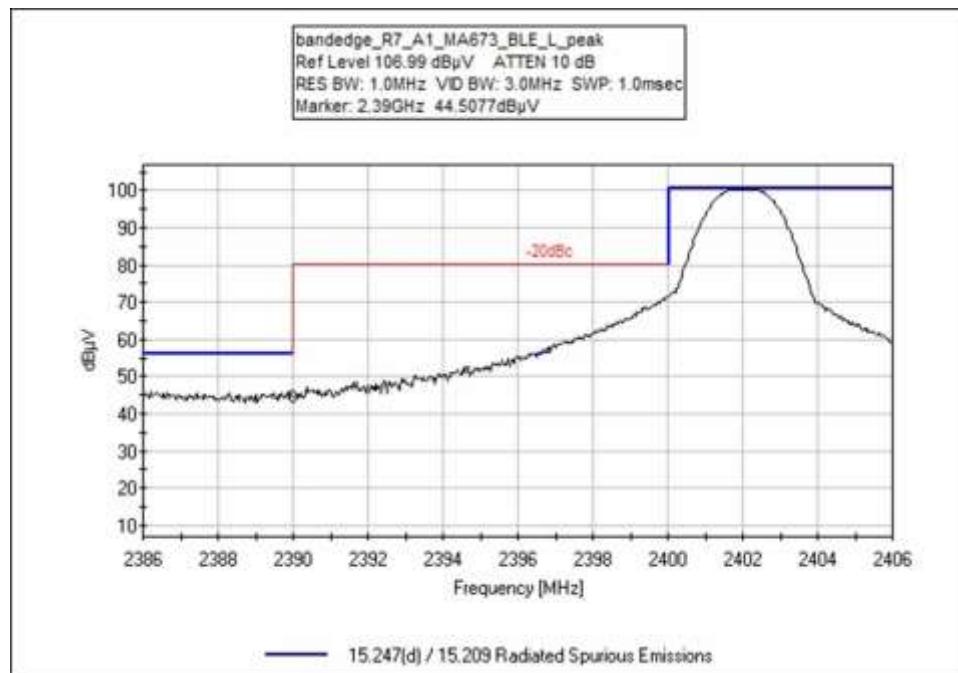


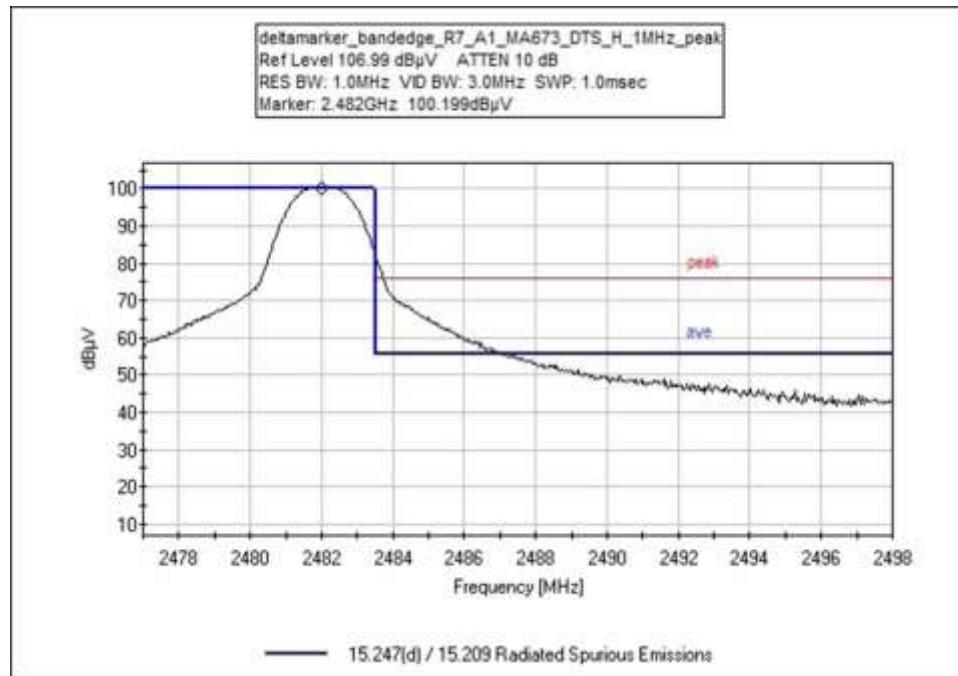
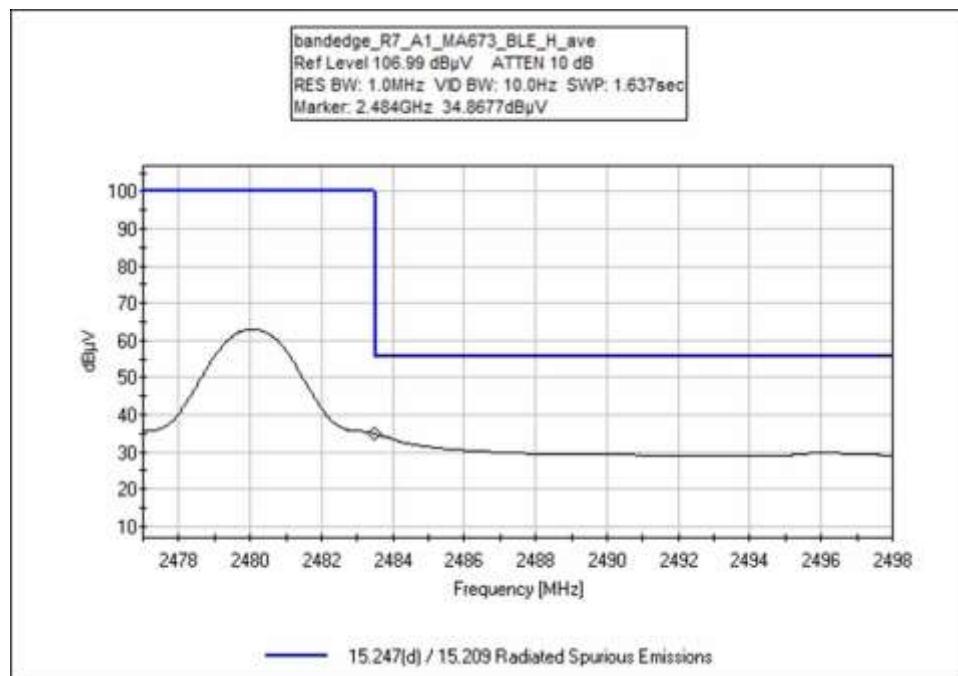


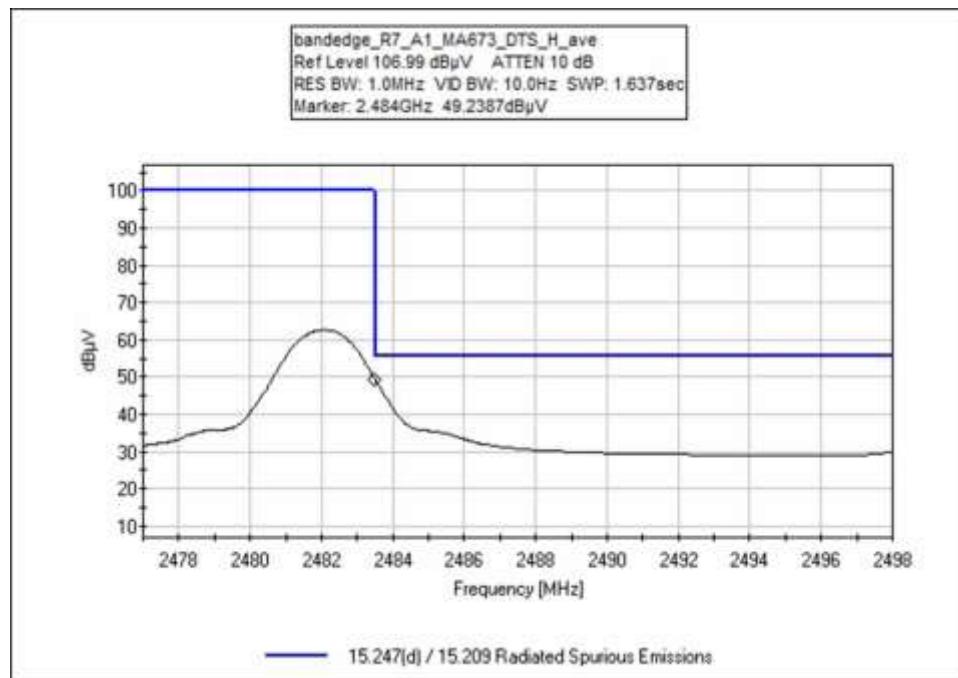
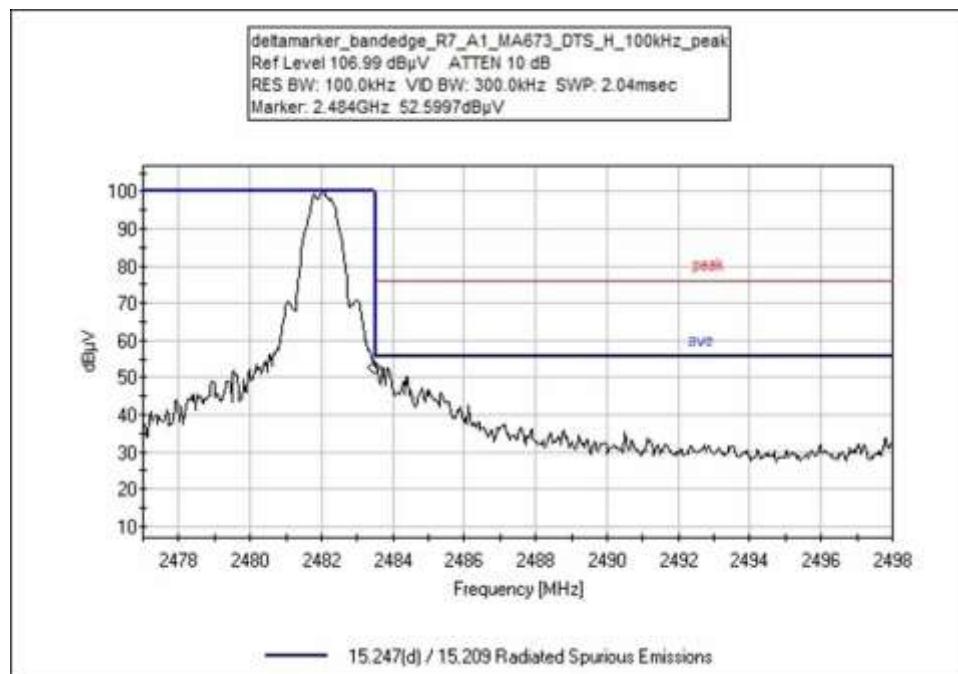


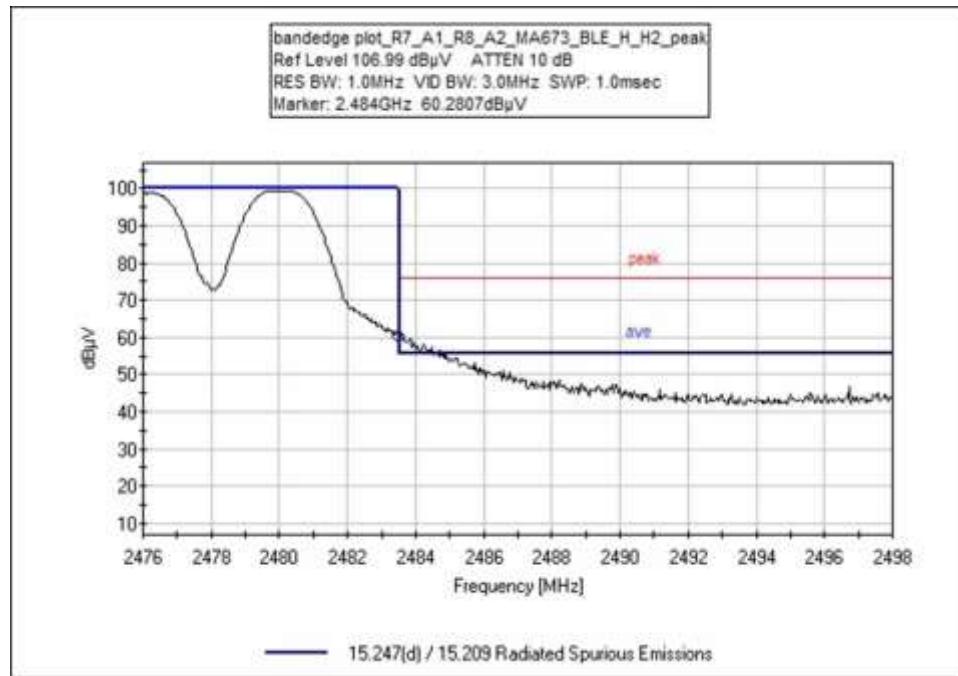
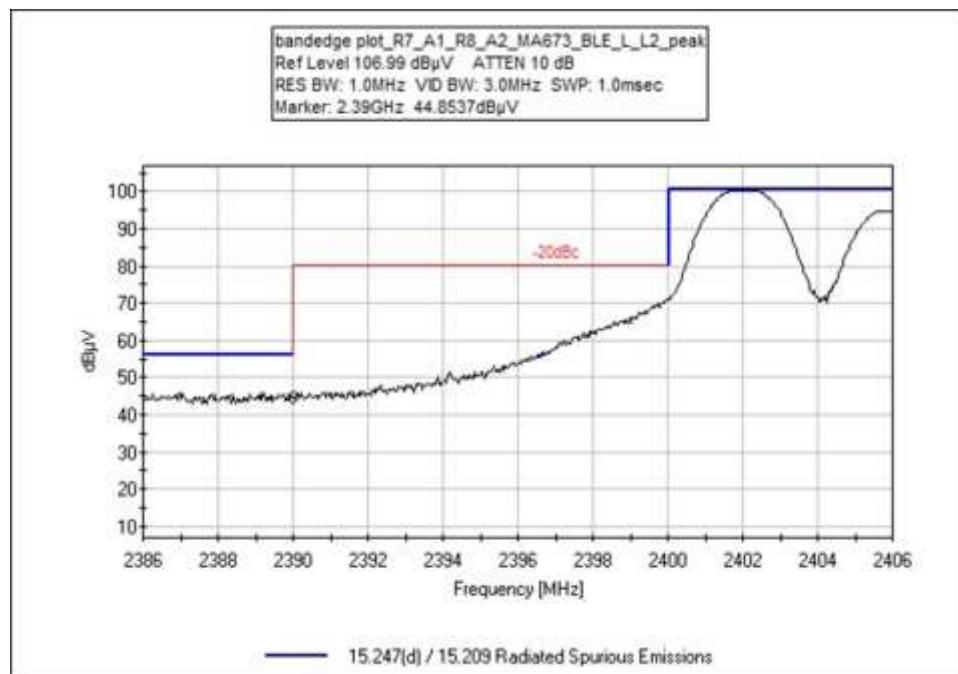


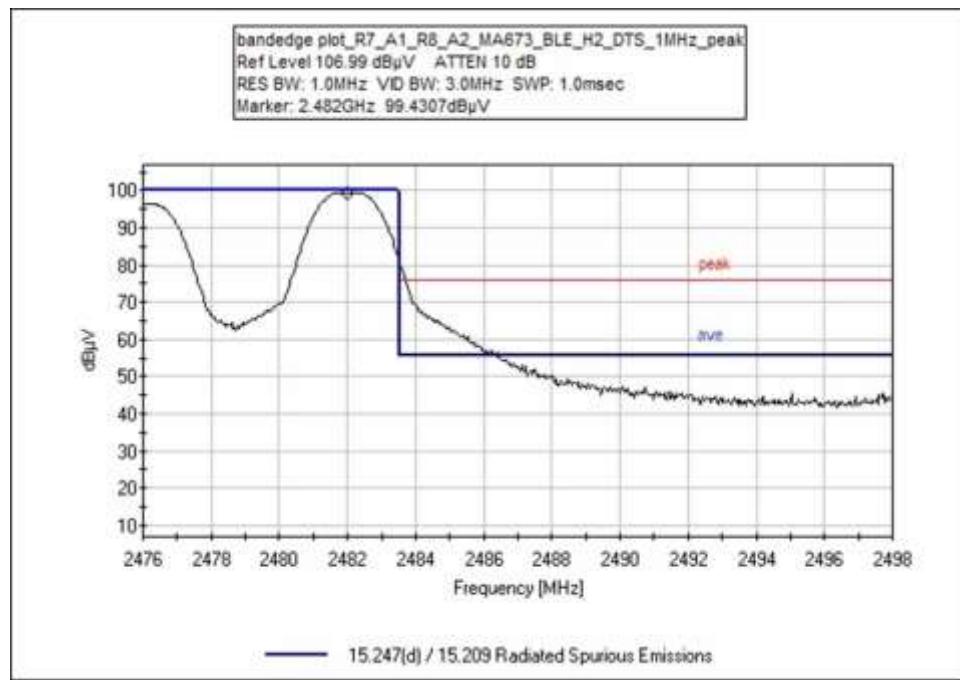
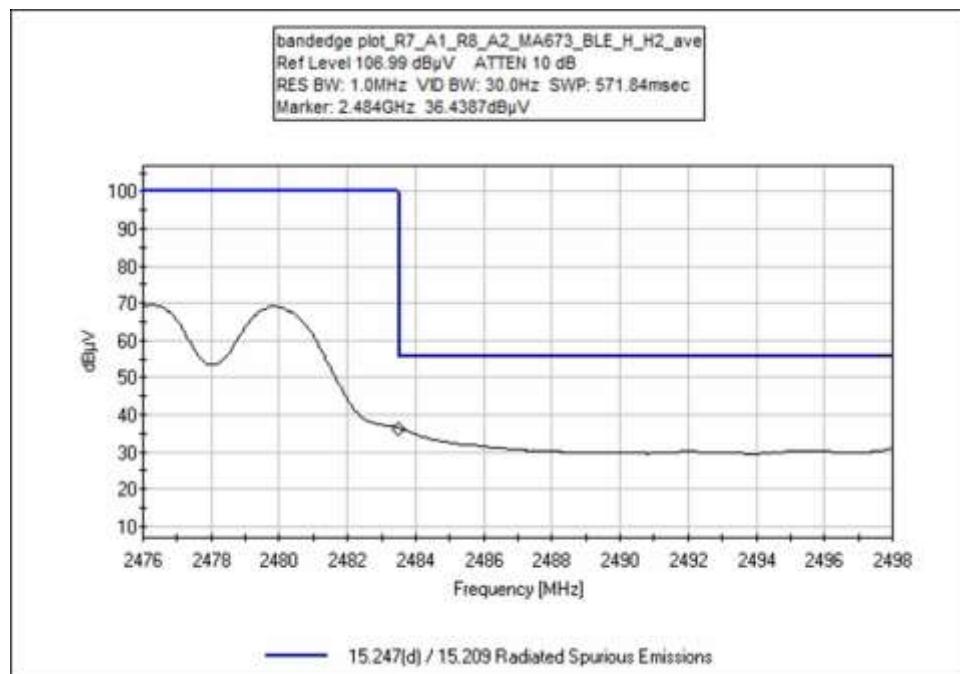
Antenna 3

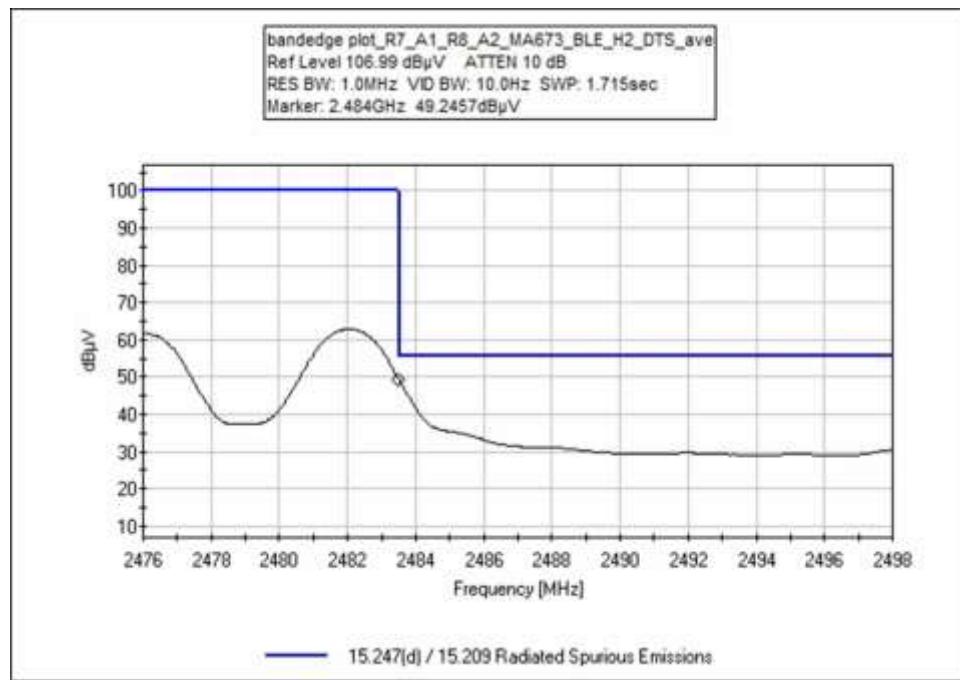
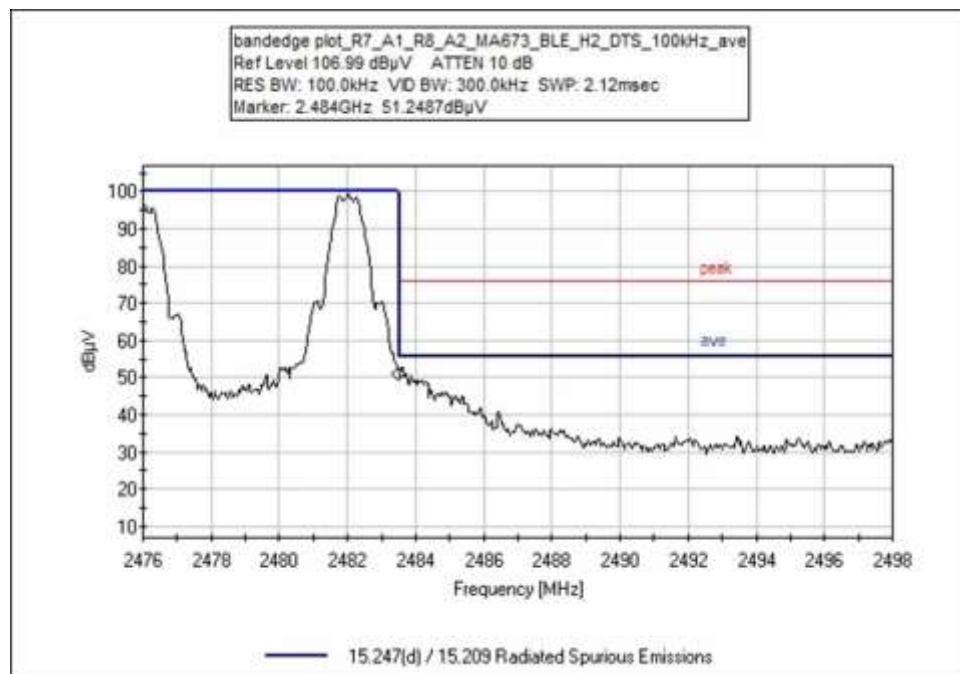




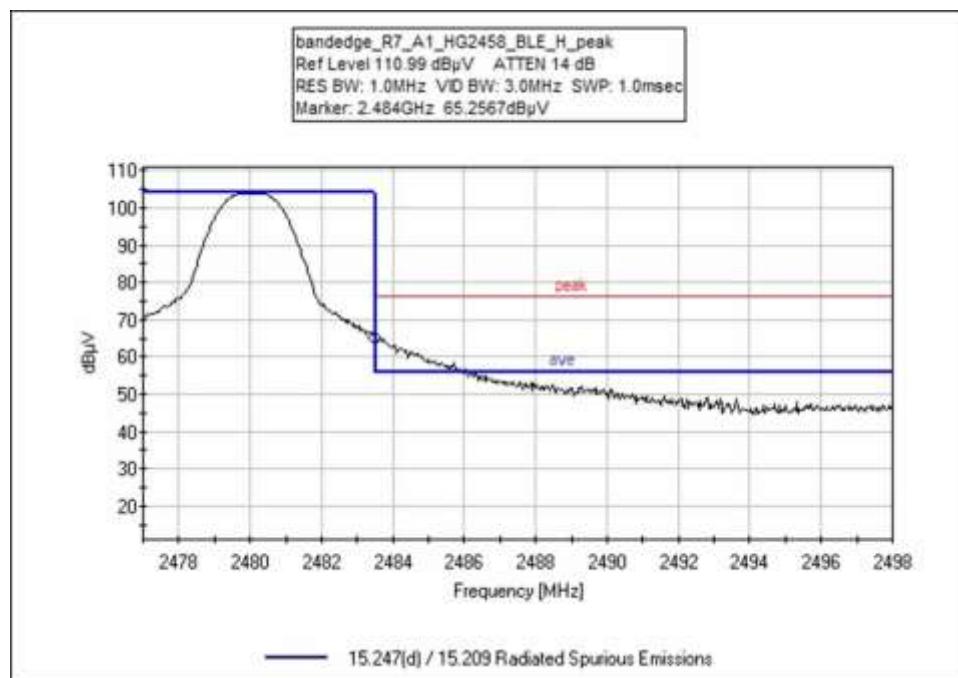
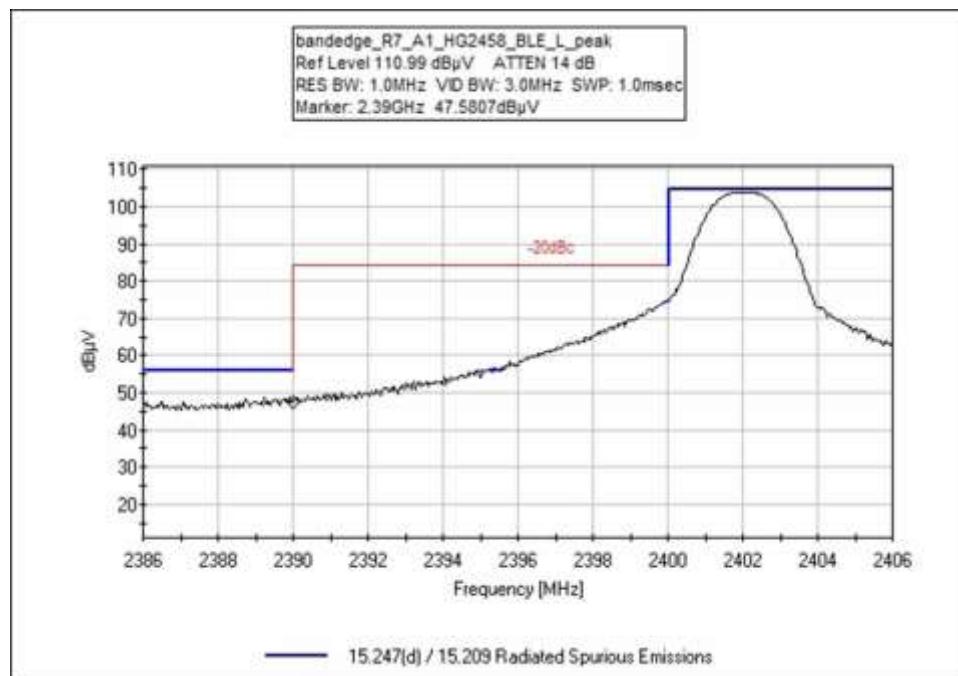


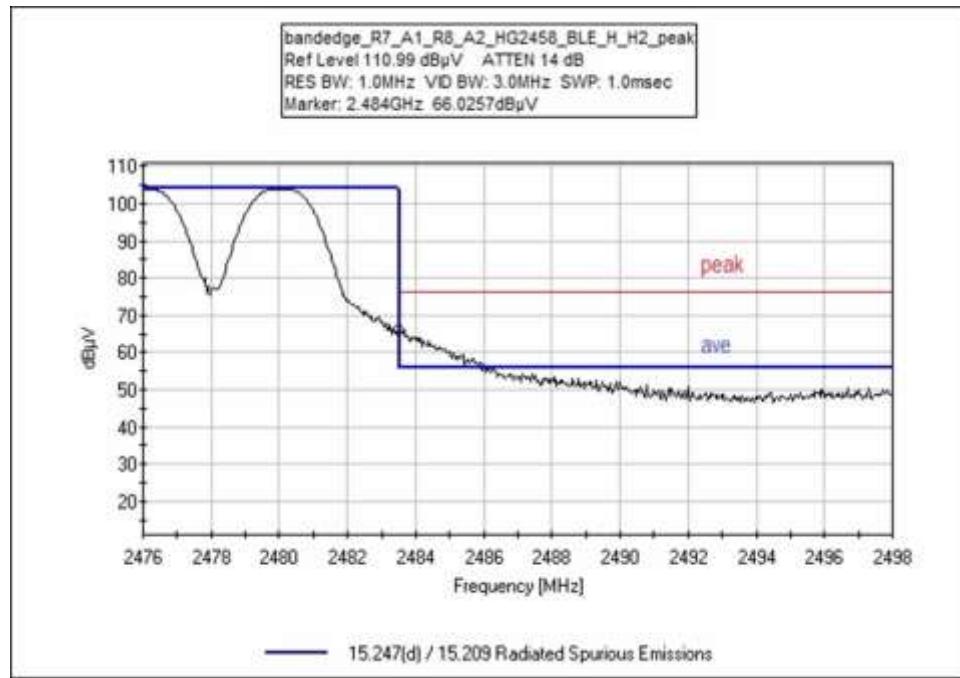
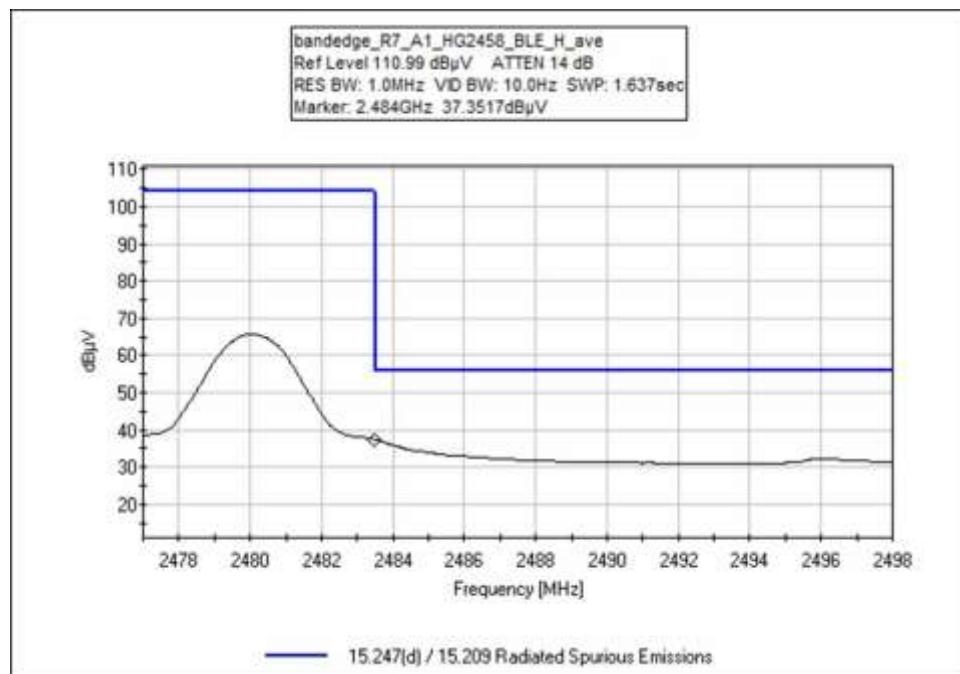


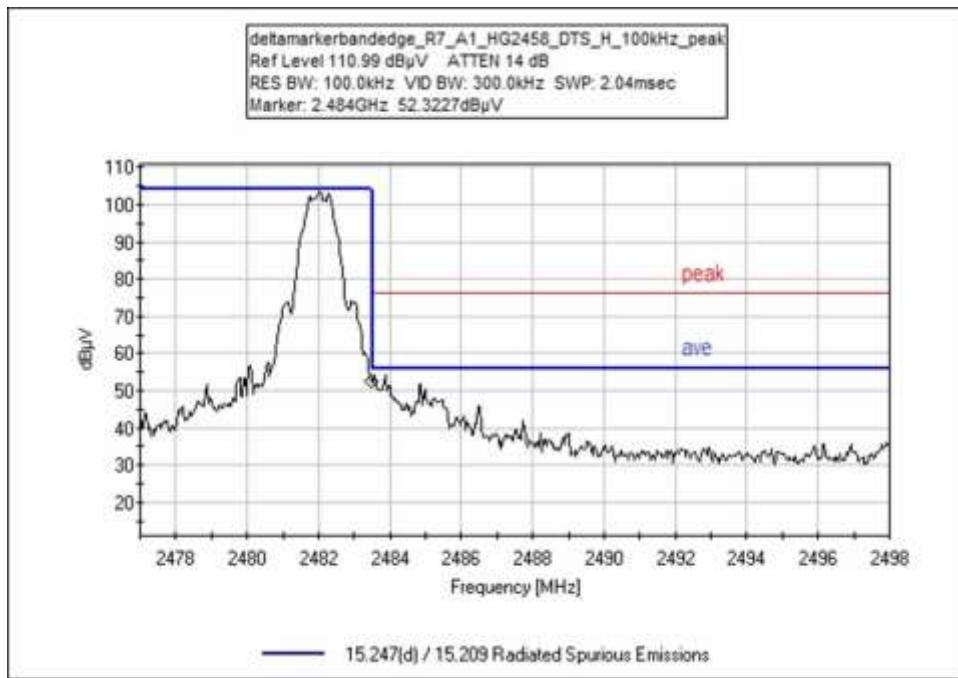
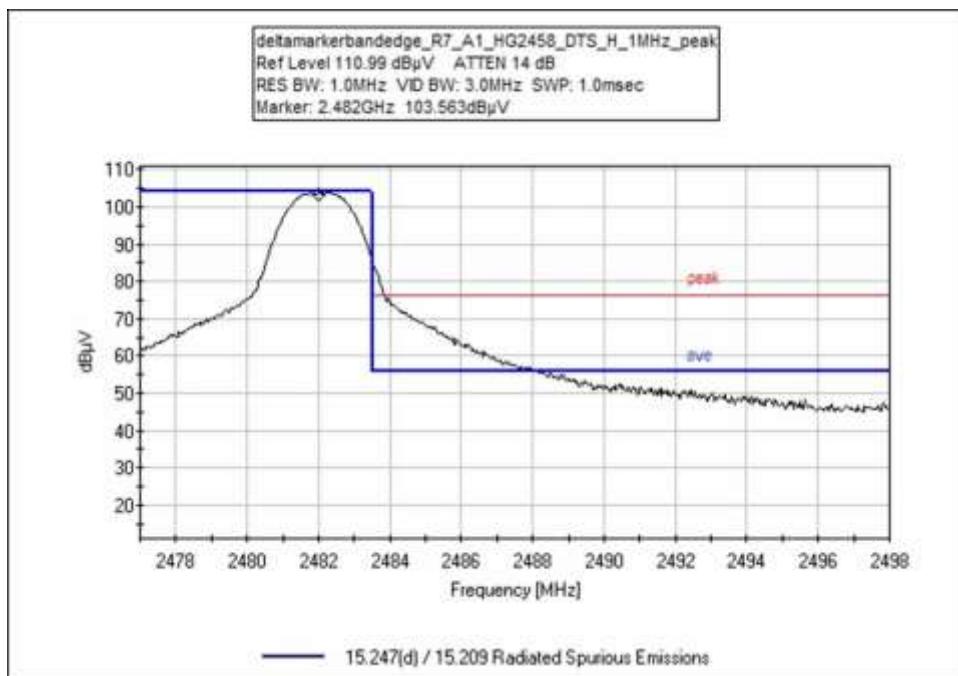


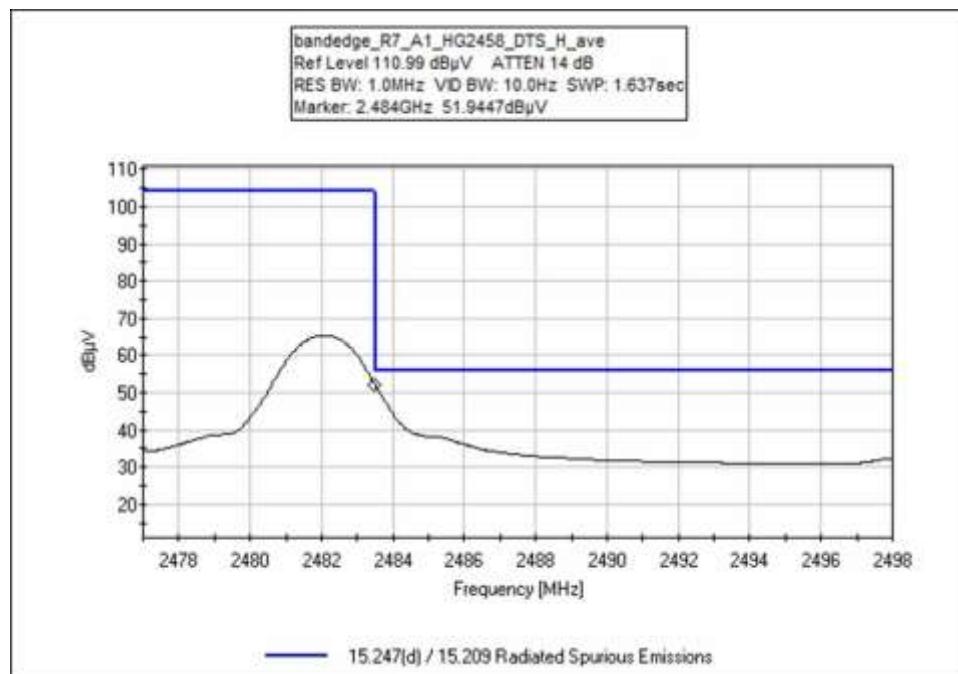


Antenna 4

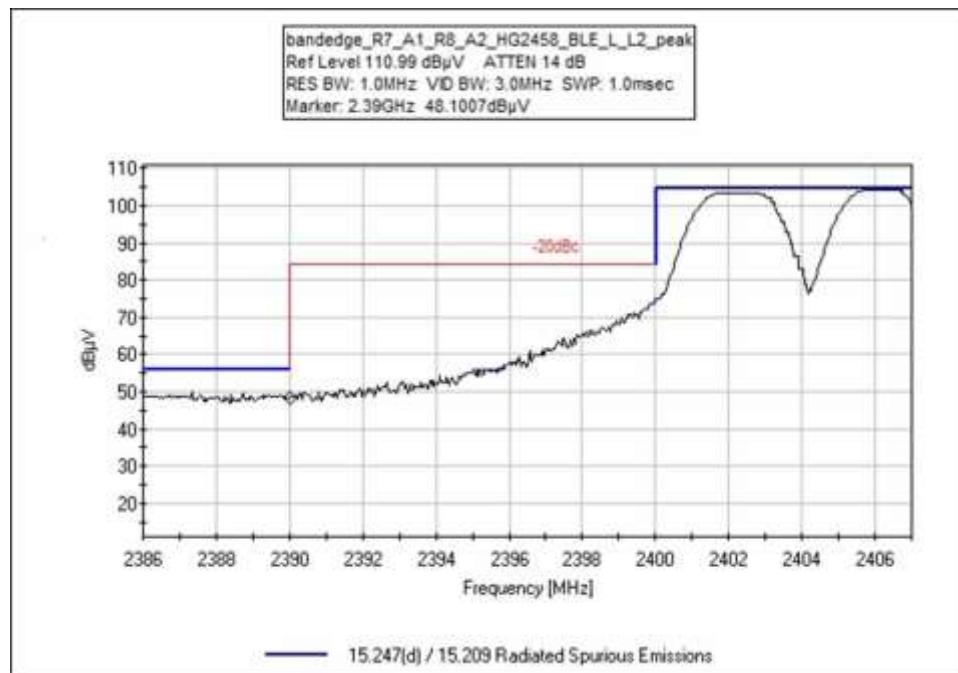


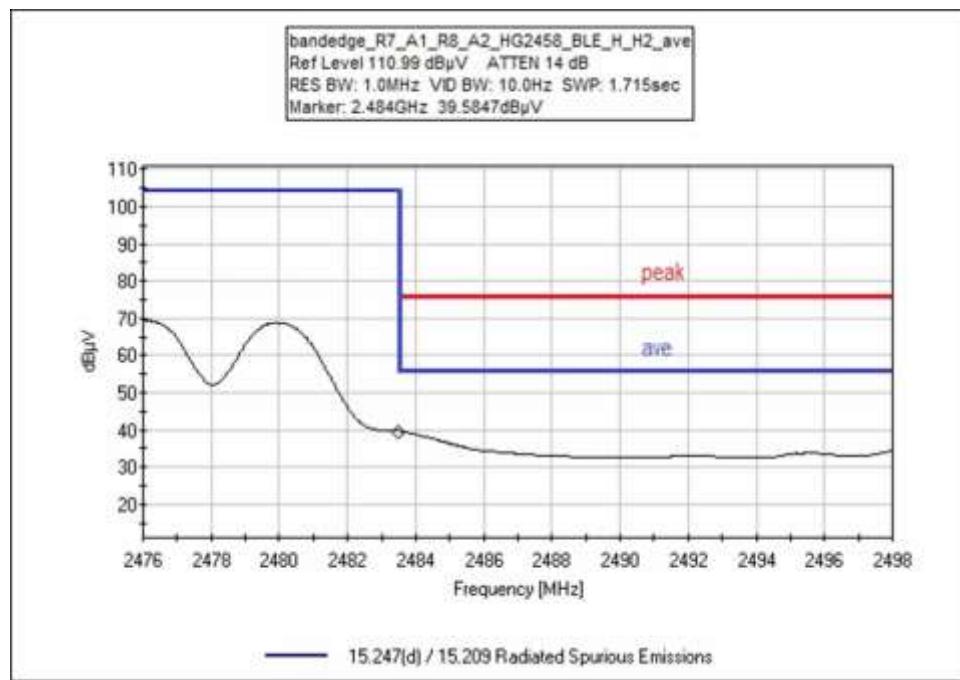
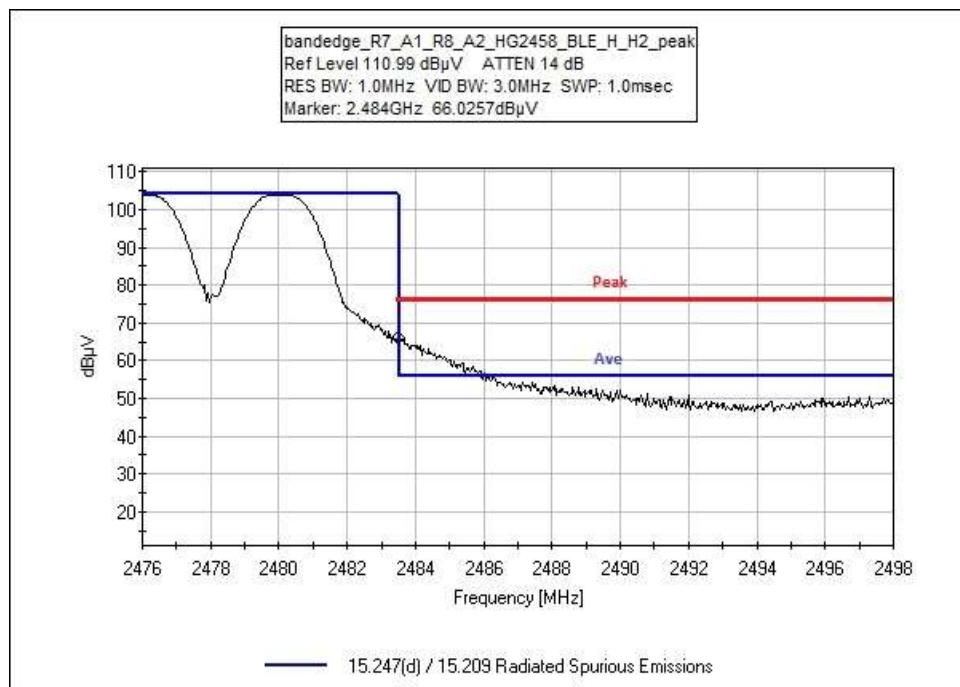


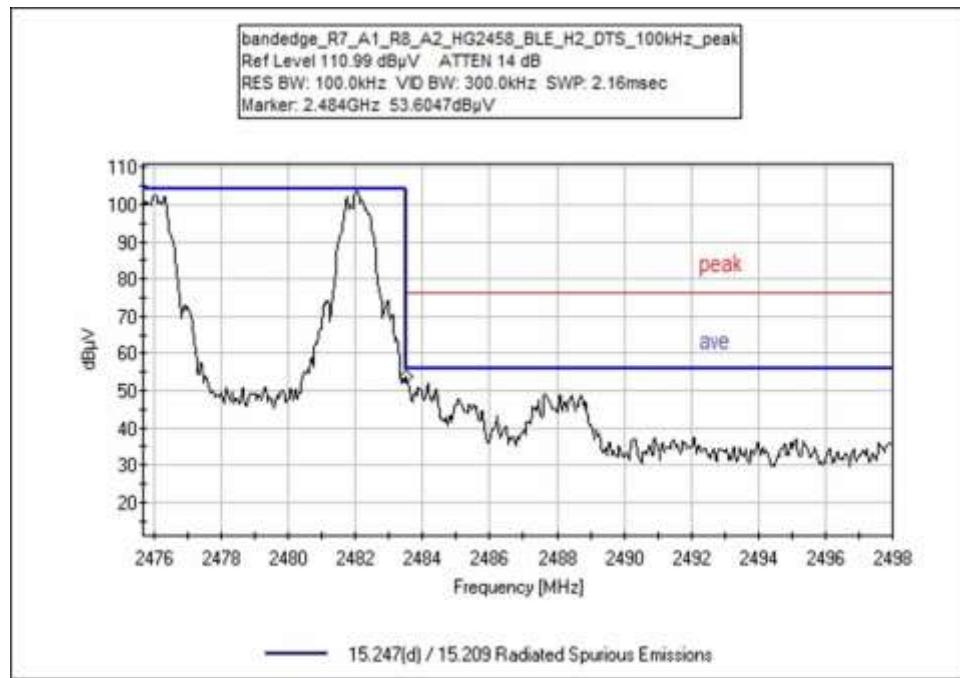
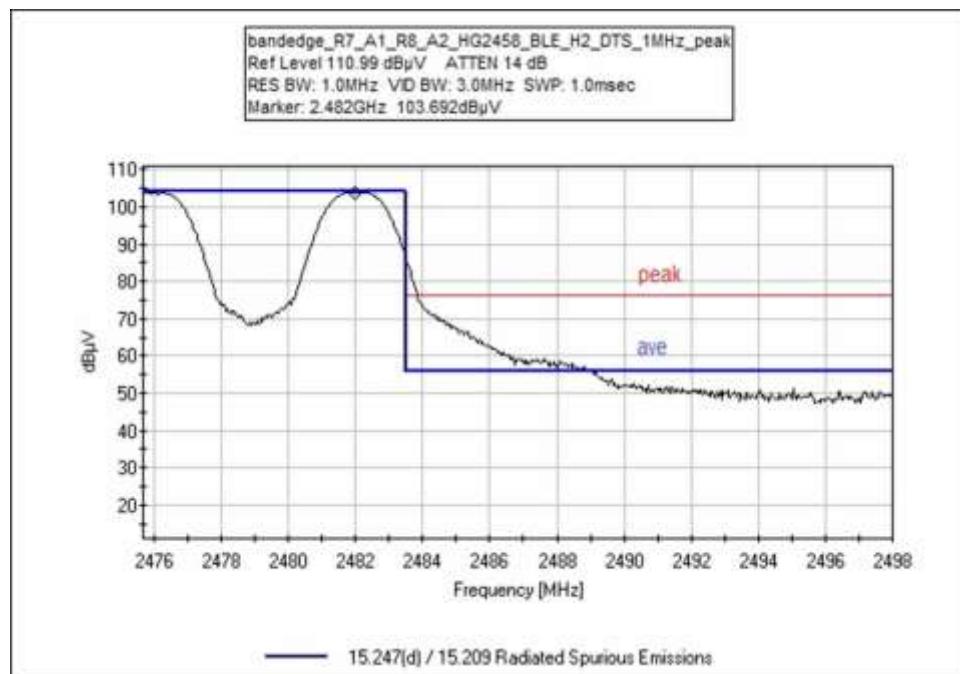


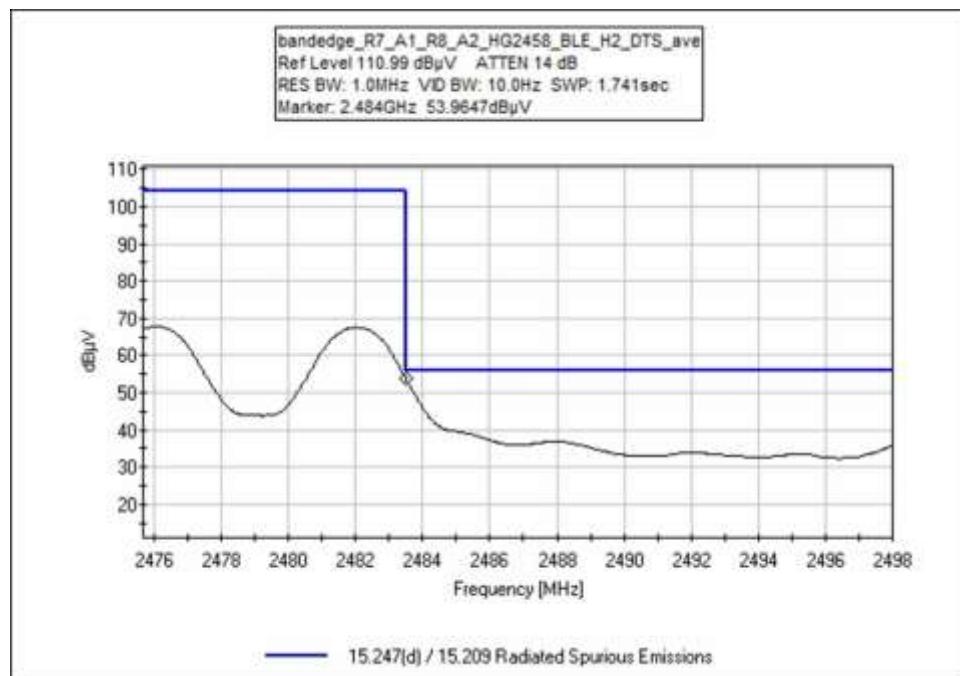


Intermod









Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993-6112
 Customer: **Walt Disney Parks and Resorts US, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **101978** Date: 1/2/2019
 Test Type: **Radiated Scan** Time: 15:46:54
 Tested By: E. Wong Sequence#: 3
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
 FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: PA2x2

Frequency range of measurement = 2.39-2.4835 GHz. RBW=1 MHz, VBW=1 MHz unless otherwise noted.

Test environment conditions:

Temperature: 17.3°C, Relative Humidity: 54%, Pressure: 100.8kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T3	ANP07247	Cable	32022-29094K-29094K-24TC	7/5/2018	7/5/2020
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07138	Cable	ANDL1-PNMNM-60	3/1/2017	3/1/2019
T6	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6			Table	dB μ V/m	dB μ V/m		
			MHz	dB μ V	dB	dB					Ant
1	2483.500M	51.1	+0.0	+28.5	+0.3	-40.2	+0.0	49.3	54.0	-4.7	Horiz
	Ave		+4.1	+5.5							bandedge
											plot_R7_A1_R8_A
											2_H2_X_ave
2	2483.500M	47.1	+0.0	+28.5	+0.3	-40.2	+0.0	45.3	54.0	-8.7	Horiz
	Ave		+4.1	+5.5							bandedge
											plot_R7_A1_PA2x
											2_DTS_H_peak
3	2483.500M	47.1	+0.0	+28.5	+0.3	-40.2	+0.0	45.3	54.0	-8.7	Horiz
	Ave		+4.1	+5.5							bandedge
											plot_R7_A1_PA2x
											2_DTS
4	2390.000M	45.0	+0.0	+28.3	+0.3	-40.0	+0.0	43.0	54.0	-11.0	Horiz
			+4.0	+5.4							bandedge_R7_A1_
											R8_A2_PA2X2_L_
											L2
5	2400.000M	66.6	+0.0	+28.3	+0.3	-40.0	+0.0	64.6	76.8	-12.2	Horiz
			+4.0	+5.4							bandedge
											plot_R7_A1_PA2x
											2_BLE
6	2400.000M	66.2	+0.0	+28.3	+0.3	-40.0	+0.0	64.2	76.8	-12.6	Horiz
			+4.0	+5.4							bandedge_R7_A1_
											R8_A2_PA2X2_L_
											L2
7	2390.000M	40.1	+0.0	+28.3	+0.3	-40.0	+0.0	38.1	54.0	-15.9	Horiz
			+4.0	+5.4							bandedge_R7_A1_
											PA2X2_BLE_L
8	2483.500M	38.0	+0.0	+28.5	+0.3	-40.2	+0.0	36.2	54.0	-17.8	Horiz
	Ave		+4.1	+5.5							bandedge
											plot_R7_A1_R8_A
											2_PA2X2_BLE_H_
											H2

9	2483.500M	33.3	+0.0	+28.5	+0.3	-40.2	+0.0	31.5	54.0	-22.5	Horiz
	Ave		+4.1	+5.5							bandedge plot_R7_A1_PA2x 2_BLE
^	2483.500M	60.7	+0.0	+28.5	+0.3	-40.2	+0.0	58.9	74.0	-15.1	Horiz
			+4.1	+5.5							bandedge plot_R7_A1_PA2x 2_BLE
^	2483.500M	53.1	+0.0	+28.5	+0.3	-40.2	+0.0	51.3	74.0	-22.7	Horiz
			+4.1	+5.5							Delta marker_R7_A1_PA 2X2_DTS_X_corre cted 0.1dB
^	2483.500M	51.1	+0.0	+28.5	+0.3	-40.2	+0.0	49.3	74.0	-24.7	Horiz
			+4.1	+5.5							Delta marker_bandedge plot_R7_A1_R8_A 2_H2_X_peak_100 kHz_corrected 0.3dB

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
 Customer: **Walt Disney Parks and Resorts US, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **101978** Date: 12/14/2018
 Test Type: **Radiated Scan** Time: 11:39:11
 Tested By: E. Wong Sequence#: 2
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
 FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dBi

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: MA510

Frequency range of measurement = 2.39-2.4835 GHz. RBW=1 MHz, VBW=1 MHz unless otherwise noted.

Test environment conditions:

Temperature: 17.3°C, Relative Humidity: 54%, Pressure: 100.8kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020
T3	ANP07247	Cable	32022-29094K-29094K-24TC	7/5/2018	7/5/2020
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07138	Cable	ANDL1-PNMNM-60	3/1/2017	3/1/2019
T6	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6			Table	dB μ V/m	dB μ V/m		
			MHz	dB μ V	dB	dB	dB				Ant
1	2483.500M	48.4	+0.0	+28.5	+0.3	-40.2	+0.0	46.6	54.0	-7.4	Horiz
	Ave		+4.1	+5.5							Bandedge_R7_A1_MA510_DTS
2	2400.000M	70.5	+0.0	+28.3	+0.3	-40.0	+0.0	68.5	76.8	-8.3	Horiz
			+4.0	+5.4							R7_A1_MA510_B LE
3	2390.000M	46.8	+0.0	+28.3	+0.3	-40.0	+0.0	44.8	54.0	-9.2	Horiz
			+4.0	+5.4							R7_A1_R8_A2_M5 10_BLE_L_L2
4	2400.000M	68.5	+0.0	+28.3	+0.3	-40.0	+0.0	66.5	76.8	-10.3	Horiz
			+4.0	+5.4							R7_A1_R8_A2_M5 10_BLE_L_L2
5	2390.000M	45.2	+0.0	+28.3	+0.3	-40.0	+0.0	43.2	54.0	-10.8	Horiz
			+4.0	+5.4							R7_A1_MA510_B LE
6	2483.500M	43.5	+0.0	+28.5	+0.3	-40.2	+0.0	41.7	54.0	-12.3	Horiz
	Ave		+4.1	+5.5							R7_A1_R8_A2_M A510_BLE_H_H2
7	2483.500M	33.9	+0.0	+28.5	+0.3	-40.2	+0.0	32.1	54.0	-21.9	Horiz
	Ave		+4.1	+5.5							Bandedge_R7_A1_MA510_BLE

8	2483.500M	53.4	+0.0	+28.5	+0.3	-40.2	+0.0	51.6	74.0	-22.4	Horiz
	Ave		+4.1	+5.5							
^	2483.500M	52.0	+0.0	+28.5	+0.3	-40.2	+0.0	50.2	54.0	-3.8	Horiz
			+4.1	+5.5							
^	2483.500M	50.3	+0.0	+28.5	+0.3	-40.2	+0.0	48.5	54.0	-5.5	Horiz
			+4.1	+5.5							
^	2483.500M	61.4	+0.0	+28.5	+0.3	-40.2	+0.0	59.6	74.0	-14.4	Horiz
			+4.1	+5.5							
^	2483.500M	54.7	+0.0	+28.5	+0.3	-40.2	+0.0	52.9	74.0	-21.1	Horiz
			+4.1	+5.5							

Bandedge_R7_A1_
 R8_A2_MA510_B
 LE_H2_DTS

bandesdge_R7_A1_
 R8_A2_MA510_B
 LE_H2_DTS_100k
 Hz_Deltam marker
 corrected 0.5

bandedge
 plot_R7_A1_R8_A
 2_MA510_BLE_H
 2_DTS_1MHz_ave

Bandedge_R7_A1_
 MA510_BLE

Bandedge_R7_A1_
 MA510_DTS_100k
 Hz_Delta marker
 0.1dB added



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
Customer: **Walt Disney Parks and Resorts US, Inc.**
Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
Work Order #: **101978** Date: 1/3/2019
Test Type: **Radiated Scan** Time: 14:32:00
Tested By: S. Yamamoto Sequence#: 4
Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dB

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: MA673

Frequency range of measurement = 2.39-2.4835 GHz. RBW=1 MHz, VBW=1 MHz unless otherwise noted.

Test environment conditions:

Temperature: 18°C, Relative Humidity: 53%, Pressure: 99kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T3	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T6	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6			Table	dB μ V/m	dB μ V/m		
			MHz	dB μ V	dB	dB	dB				Ant
1	2390.000M	44.9	+0.0	+5.4	+0.0	+0.0	+0.0	50.3	54.0	-3.7	Vert
			+0.0	+0.0					bandedge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_L_		
									L2_peak		
2	2483.500M	49.3	+0.0	+5.5	+4.1	-40.2	+0.0	47.5	54.0	-6.5	Vert
Ave			+0.3	+28.5					bandedge_R7_A1_		
									MA673_DTS_H_av		
3	2483.500M	49.3	+0.0	+5.5	+4.1	-40.2	+0.0	47.5	54.0	-6.5	Vert
Ave			+0.3	+28.5					bandedge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_H		
									2_DTS_ave		
4	2400.000M	71.1	+0.0	+5.4	+4.0	-40.0	+0.0	69.1	78.5	-9.4	Vert
			+0.3	+28.3					bandedge_R7_A1_		
									MA673_BLE_L_pe		
									ak		
5	2400.000M	70.3	+0.0	+5.4	+4.0	-40.0	+0.0	68.3	78.5	-10.2	Vert
			+0.3	+28.3					bandedge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_L_		
									L2_peak		
6	2390.000M	44.5	+0.0	+5.4	+4.0	-40.0	+0.0	42.5	54.0	-11.5	Vert
Ave			+0.3	+28.3					bandedge_R7_A1_		
									MA673_BLE_L_pe		
									ak		
7	2483.500M	36.3	+0.0	+5.5	+4.1	-40.2	+0.0	34.5	54.0	-19.5	Vert
Ave			+0.3	+28.5					bandedge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_H		
									_H2_ave		

8	2483.500M	34.9	+0.0	+5.5	+4.1	-40.2	+0.0	33.1	54.0	-20.9	Vert
	Ave		+0.3	+28.5					bandedge_R7_A1_		
									MA673_BLE_H_av		e
^	2483.500M	52.9	+0.0	+5.5	+4.1	-40.2	+0.0	51.1	54.0	-2.9	Vert
			+0.3	+28.5					deltamarker_banded		
									ge_R7_A1_MA673		
									_DTS_H_100kHz_		
									peak corrected		
									0.3dB		
^	2483.500M	51.5	+0.0	+5.5	+4.1	-40.2	+0.0	49.7	54.0	-4.3	Vert
			+0.3	+28.5					deltamarker_banded		
									ge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_H		
									2_DTS_100kHz_pe		
									ak_corrected 0.3dB		
^	2483.500M	60.4	+0.0	+5.5	+4.1	-40.2	+0.0	58.6	74.0	-15.4	Vert
			+0.3	+28.5					bandedge_R7_A1_		
									MA673_BLE_H_pe		
									ak		
^	2483.500M	60.3	+0.0	+5.5	+4.1	-40.2	+0.0	58.5	74.0	-15.5	Vert
			+0.3	+28.5					bandedge		
									plot_R7_A1_R8_A		
									2_MA673_BLE_H		
									_H2_peak		

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714 993- 6112
 Customer: **Walt Disney Parks and Resorts US, Inc.**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **101978** Date: 12/25/2018
 Test Type: **Radiated Scan** Time: 13:30:23
 Tested By: S. Yamamoto Sequence#: 5
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

The EUT is placed on the Styrofoam block. ETHO is connected to remotely located support POE, Switch and laptop. ETH1 is connected to a section of UTP, USB ports are connected to section of USB cable, GPIO ports are terminated to simulated loads. RX port connects to a Dipole antenna. Micro USB Service port left unpopulated

Remote laptop runs test software to set the EUT into test mode.

Evaluation for Permissive Change II equipment authorization process with various antenna type and configurations.
 FCCID: 2AJS4-RN-R1G1

Radio port 7 and radio port 8 are connected to the antenna in accordance with available configuration.

Protocol:

BLE, 2402MHz, 2440MHz, 2480MHz

DTS (proprietary): 2482MHz single channel

Ant1: PA2X2, 8dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Ant2: MA510, 3.9dBi

Ant3:MA673, 4.1 dB

Ant4: HG2458, 13dBi + 2 x 10ft Pasternack RG223/ U 2 with 6dB loss at 2440MHz

Firmware power setting 0 dBm

Antenna under investigation: HG2458

Frequency range of measurement = 2.39-2.4835 GHz. RBW=1 MHz, VBW=1 MHz unless otherwise noted.

Test environment conditions:

Temperature: 18°C, Relative Humidity: 53%, Pressure: 99kPa

Test method in accordance with FCC document: 558074 558074 D01 15.247 Meas Guidance v05. Investigation in all orientation, worst case orientation presented.

Site D

ANSI C63.10-2013

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02869	Spectrum Analyzer	E4440A	8/10/2018	8/10/2019
T2	ANP04382	Cable	LDF-50	6/2/2018	6/2/2020
T3	ANP07138	Cable	ANDL1- PNMNM-60	3/1/2017	3/1/2019
T4	AN00787	Preamp	83017A	6/9/2017	6/9/2019
T5	ANP07247	Cable	32022-29094K- 29094K-24TC	7/5/2018	7/5/2020
T6	AN01646	Horn Antenna	3115	3/14/2018	3/14/2020

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6			Table	dB μ V/m	dB μ V/m		
			MHz	dB μ V	dB	dB	dB				Ant
1	2483.500M	54.0	+0.0	+5.5	+4.1	-40.2	+0.0	52.2	54.0	-1.8	Horiz
	Ave		+0.3	+28.5							bandedge_R7_A1_
											R8_A2_HG2458_B
											LE_H2_DTS_ave
2	2483.500M	51.9	+0.0	+5.5	+4.1	-40.2	+0.0	50.1	54.0	-3.9	Horiz
	Ave		+0.3	+28.5							bandedge_R7_A1_
											HG2458_DTS_H_a
											ve
3	2390.000M	48.1	+0.0	+5.4	+4.0	-40.0	+0.0	46.1	54.0	-7.9	Horiz
			+0.3	+28.3							bandedge_R7_A1_
											R8_A2_HG2458_B
											LE_L_L2_peak
4	2390.000M	47.6	+0.0	+5.4	+4.0	-40.0	+0.0	45.6	54.0	-8.4	Horiz
			+0.3	+28.3							bandedge_R7_A1_
											HG2458_BLE_L_p
											peak
5	2400.000M	74.4	+0.0	+5.4	+4.0	-40.0	+0.0	72.4	82.9	-10.5	Horiz
			+0.3	+28.3							bandedge_R7_A1_
											HG2458_BLE_L_p
											peak
6	2400.000M	74.1	+0.0	+5.4	+4.0	-40.0	+0.0	72.1	82.9	-10.8	Horiz
			+0.3	+28.3							bandedge_R7_A1_
											R8_A2_HG2458_B
											LE_L_L2_peak
7	2483.500M	39.6	+0.0	+5.5	+4.1	-40.2	+0.0	37.8	54.0	-16.2	Horiz
	Ave		+0.3	+28.5							bandedge_R7_A1_
											R8_A2_HG2458_B
											LE_H_H2_ave

8	2483.500M	37.4	+0.0	+5.5	+4.1	-40.2	+0.0	35.6	54.0	-18.4	Horiz
	Ave		+0.3	+28.5					bandedge_R7_A1_		
									HG2458_BLE_H_a		
									ve		
^	2483.500M	65.3	+0.0	+5.5	+4.1	-40.2	+0.0	63.5	74.0	-10.5	Horiz
			+0.3	+28.5					bandedge_R7_A1_		
									HG2458_BLE_H_p		
^	2483.500M	53.9	+0.0	+5.5	+4.1	-40.2	+0.0	52.1	74.0	-21.9	Horiz
			+0.3	+28.5					deltamarker_banded		
									ge_R7_A1_R8_A2		
									_HG2458_BLE_H2		
									_DTS_100kHz_pea		
									k_corrected0.3dB		
^	2483.500M	52.6	+0.0	+5.5	+4.1	-40.2	+0.0	50.8	74.0	-23.2	Horiz
			+0.3	+28.5					deltamarkerbandedg		
									e_R7_A1_HG2458		
									_DTS_H_100kHz_		
									peak_corrected0.3d		
									B		

Test Setup Photo(s)



Antenna 1



Antenna 1



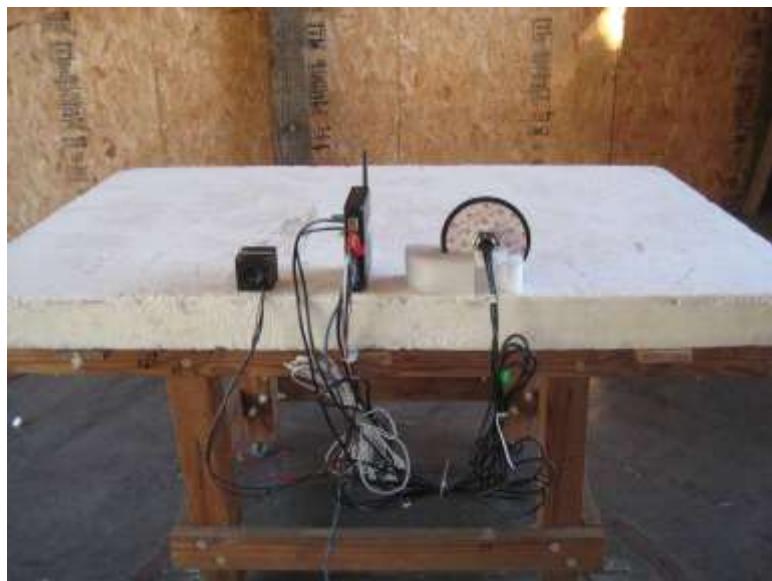
Antenna 2



Antenna 2



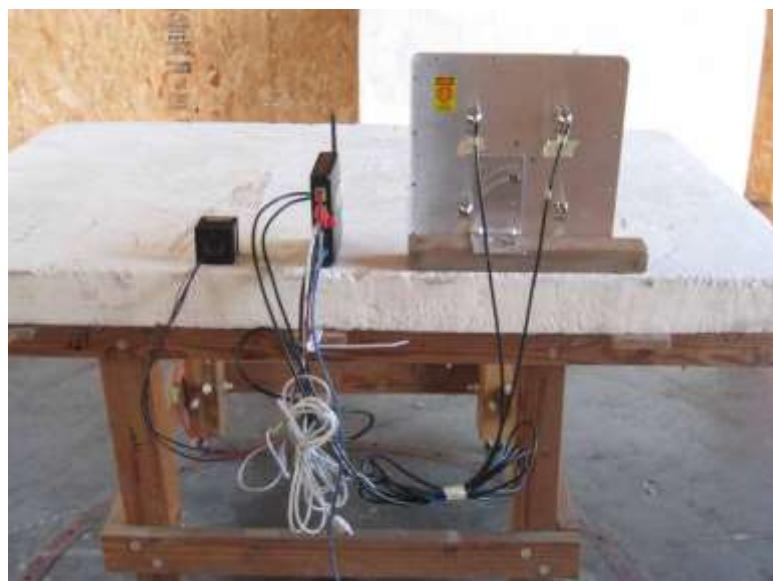
Antenna 3



Antenna 3



Antenna 4



Antenna 4



Above 1GHz, Cone placement



Above 1GHz, Cone placement

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Uncertainties reported are worst case for all CKC Laboratories' sites and represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS	
Meter reading	(dB μ V)
+ Antenna Factor	(dB/m)
+ Cable Loss	(dB)
- Distance Correction	(dB)
- Preamplifier Gain	(dB)
= Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point, the measuring device is set into the linear mode and the scan time is reduced.