

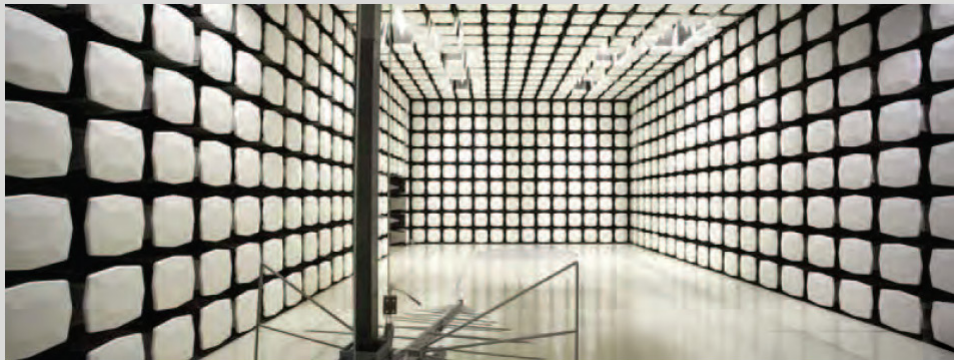


Handheld Group AB

Enzo (DP551)

FCC 15.247:2012

Report #: LNGE0001



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

Last Date of Test: September 27, 2012
Handheld Group AB
Model: Enzo (DP551)

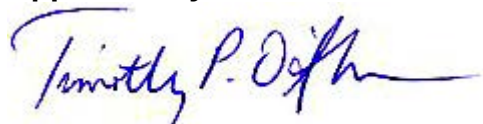
Emissions

Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247:2012	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200630-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834D-1).

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

United States

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

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

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

European Union

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

Australia/New Zealand

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

Korea

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

Japan

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

Taiwan

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

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

Singapore

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

Hong Kong

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

Vietnam

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

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

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

<http://www.nwemc.com/accreditations/>

Measurement Uncertainty

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

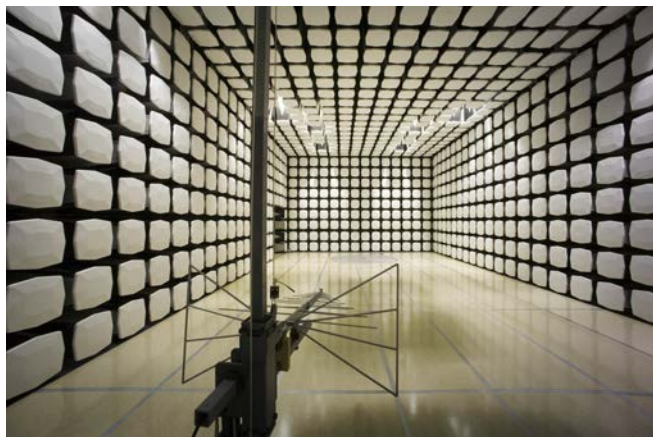
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

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

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70



Oregon Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs SU01-SU07 14128 339 th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1



Client and Equipment Under Test (EUT) Information

Company Name:	Handheld Group AB
Address:	Kinnegatan 17A SE-531 33 Lidköping
City, State, Zip:	Sweden
Test Requested By:	Myra Long
Model:	Enzo (DP551)
First Date of Test:	September 27, 2012
Last Date of Test:	September 27, 2012
Receipt Date of Samples:	September 20, 2012
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
One 802.11b/g radio module
Testing Objective:
Seeking Class 2 Permissive change under FCC 15.247 to add a new antenna.

Configuration LNGE0001- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wi-Fi Module on Developer Board	Qatech	Enzo (DP551)	Unknown

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
DC Power Supply	David Power	DP15-0503000A4	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	No	1.8m	PA	DC Power Supply	Wi-Fi Module on Developer Board
AC Power	No	1.8m	No	DC Power Supply	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	9/27/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

MODES OF OPERATION

Transmitting 802.11b/g, 100% duty cycle

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

LNGE0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26.5 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Cable	ESM Cable Corp.	KMKM-72	EVY	9/11/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/11/2012	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/28/2012	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	2/28/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/28/2012	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/27/2012	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/27/2012	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/26/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/26/2012	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	12 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

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



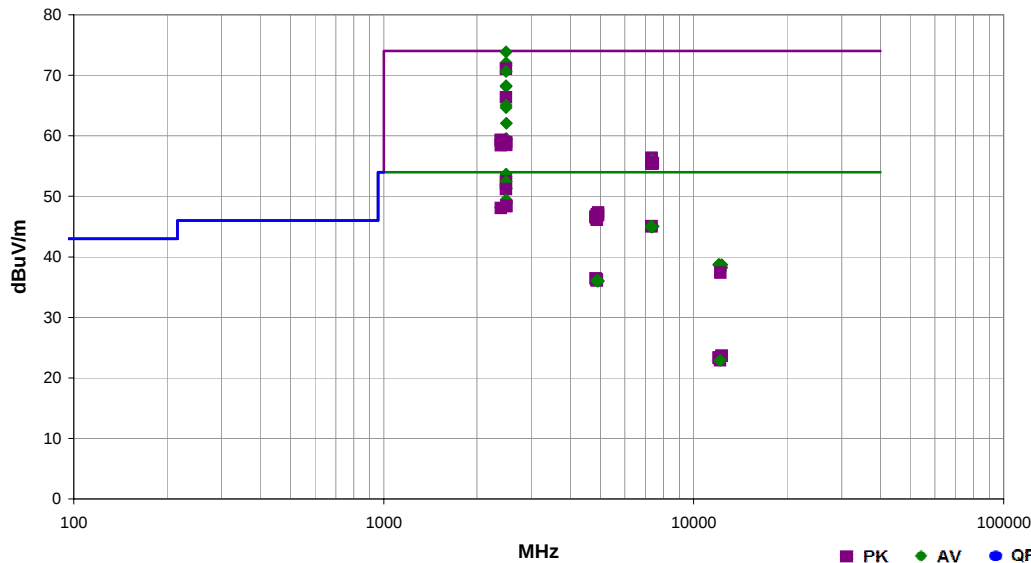
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2012.09.10
PSA-ESCI Version 2011.12.21

Work Order:	LNGE0001	Date:	09/27/12	
Project:	None	Temperature:	23.6 °C	
Job Site:	EV01	Humidity:	41% RH	
Serial Number:	Unknown	Barometric Pres.:	1018.9 mbar	
EUT:	Enzo (DP551)			
Configuration:	1			
Customer:	Handheld Group AB			
Attendees:	Mike Zelman, Scott Nelson			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11b/g, 100% duty cycle			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2012	ANSI C63.10:2009

Run #	15	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2484.087	52.0	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	73.9	74.0	-0.1	High CH (2462MHz), 6Mbps, EUT On Side
2483.530	31.8	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	53.7	54.0	-0.3	10 Hz, High CH (2462MHz), 6Mbps, EUT On Side
2483.590	31.4	1.9	1.0	313.0	3.0	20.0	Vert	AV	0.0	53.3	54.0	-0.7	High CH (2462MHz), 6Mbps, EUT Vertical
2483.500	31.0	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	52.9	54.0	-1.1	10Hz, High CH (2462MHz), 11Mbps, EUT On Side
2483.537	30.6	1.9	1.0	53.0	3.0	20.0	Horz	AV	0.0	52.5	54.0	-1.5	High CH (2462MHz), 6Mbps, EUT Horizontal
2483.503	30.6	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	52.5	54.0	-1.5	10Hz, High CH (2462MHz), 36Mbps, EUT On Side
2483.510	30.6	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	52.5	54.0	-1.5	10 Hz, High CH (2462MHz), 54Mbps, EUT On Side
2483.730	50.2	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	72.1	74.0	-1.9	High CH (2462MHz), 11Mbps, EUT On Side
2484.263	49.8	1.9	1.9	321.0	3.0	20.0	Horz	PK	0.0	71.7	74.0	-2.3	High CH (2462MHz), 6Mbps, EUT Vertical
2484.123	29.5	1.9	1.0	37.0	3.0	20.0	Vert	AV	0.0	51.4	54.0	-2.6	High CH (2462MHz), 6Mbps, EUT On Side
2483.577	29.5	1.9	1.0	311.0	3.0	20.0	Vert	AV	0.0	51.4	54.0	-2.6	High CH (2462MHz), 36Mbps, EUT Vertical
2483.587	29.4	1.9	1.9	321.0	3.0	20.0	Horz	AV	0.0	51.3	54.0	-2.7	10Hz, High CH (2462MHz), 6Mbps, EUT Vertical
2483.567	29.3	1.9	1.0	313.0	3.0	20.0	Vert	AV	0.0	51.2	54.0	-2.8	High CH (2462MHz), 54Mbps, EUT Vertical
2483.563	49.2	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	71.1	74.0	-2.9	High CH (2462MHz), 36Mbps, EUT On Side
2483.520	48.8	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	70.7	74.0	-3.3	High CH (2462MHz), 54Mbps, EUT On Side
2483.793	27.6	1.9	3.2	259.0	3.0	20.0	Vert	AV	0.0	49.5	54.0	-4.5	High CH (2462MHz), 6Mbps, EUT Horizontal
2484.500	27.3	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	49.2	54.0	-4.8	High CH (2462MHz), 1Mbps, EUT On Side
2485.007	27.1	1.9	1.1	318.0	3.0	20.0	Horz	AV	0.0	49.0	54.0	-5.0	High CH (2462MHz), 11Mbps, EUT On Side
2485.487	26.5	1.9	1.0	313.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High CH (2462MHz), 1Mbps, EUT Vertical
2484.963	26.5	1.9	1.0	311.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High CH (2462MHz), 11Mbps, EUT Vertical
2483.507	46.4	1.9	1.0	313.0	3.0	20.0	Vert	PK	0.0	68.3	74.0	-5.7	High CH (2462MHz), 6Mbps, EUT Vertical
2484.013	46.3	1.9	1.0	53.0	3.0	20.0	Horz	PK	0.0	68.2	74.0	-5.8	High CH (2462MHz), 6Mbps, EUT Horiz
2389.393	26.6	1.5	1.0	62.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	Low CH (2412MHz), 6Mbps, EUT Vertical
2389.563	26.6	1.5	1.0	244.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-5.9	Low CH (2412MHz), 11Mbps, EUT On Side
2389.507	26.6	1.5	1.0	244.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-5.9	Low CH (2412MHz), 6Mbps, EUT On Side
2388.640	26.5	1.6	1.0	62.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	Low CH (2412MHz), 11Mbps, EUT Vertical
2483.570	44.5	1.9	1.0	37.0	3.0	20.0	Vert	PK	0.0	66.4	74.0	-7.6	High CH (2462MHz), 6Mbps, EUT On Side
7384.627	25.8	19.3	1.0	325.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	High CH (2462MHz), 11Mbps, EUT Horiz
7384.313	25.8	19.3	1.0	158.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	High CH (2462MHz), 11Mbps, EUT Horiz
7311.507	26.1	19.0	2.2	30.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 36Mbps, EUT Horiz
2483.563	43.2	1.9	1.0	311.0	3.0	20.0	Vert	PK	0.0	65.1	74.0	-8.9	High CH (2462MHz), 36Mbps, EUT Vertical
7310.293	26.1	19.0	2.2	30.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 11Mbps, EUT Horiz
7310.133	26.1	19.0	1.0	274.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 54Mbps, EUT Horiz
7310.027	26.1	19.0	2.2	30.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 54Mbps, EUT Horiz

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7309.747	26.1	19.0	2.2	30.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 6Mbps, EUT Horiz
7309.573	26.1	19.0	1.0	274.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	Mid CH (2437MHz), 11Mbps, EUT Horiz
7309.320	26.1	18.9	2.2	30.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Mid CH (2437MHz), 1Mbps, EUT Horiz
7309.267	26.1	18.9	1.0	274.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	Mid CH (2437MHz), 36Mbps, EUT Horiz
7311.267	26.0	19.0	1.0	274.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	Mid CH (2437MHz), 1Mbps, EUT Horiz
7309.573	26.0	19.0	1.0	274.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	Mid CH (2437MHz), 6Mbps, EUT Horiz
2483.773	42.8	1.9	1.0	313.0	3.0	20.0	Vert	PK	0.0	64.7	74.0	-9.3	High CH (2462MHz), 54Mbps, EUT Vertical
2484.640	40.2	1.9	3.2	259.0	3.0	20.0	Vert	PK	0.0	62.1	74.0	-11.9	High CH (2462MHz), 6Mbps, EUT Horizontal
2484.210	37.7	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	59.6	74.0	-14.4	High CH (2462MHz), 11Mbps, EUT On Side
2485.297	37.6	1.9	1.1	318.0	3.0	20.0	Horz	PK	0.0	59.5	74.0	-14.5	High CH (2462MHz), 1Mbps, EUT On Side
2389.417	37.8	1.5	1.0	62.0	3.0	20.0	Vert	PK	0.0	59.3	74.0	-14.7	Low CH (2412MHz), 11Mbps, EUT Vertical
2389.373	37.8	1.5	1.0	244.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	Low CH (2412MHz), 6Mbps, EUT On Side
2388.030	37.6	1.6	1.0	244.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	Low CH (2412MHz), 11Mbps, EUT On Side
2484.663	37.1	1.9	1.0	311.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	High CH (2462MHz), 11Mbps, EUT Vertical
2485.220	36.6	1.9	1.0	313.0	3.0	20.0	Vert	PK	0.0	58.5	74.0	-15.5	High CH (2462MHz), 1Mbps, EUT Vertical
2388.117	36.9	1.6	1.0	62.0	3.0	20.0	Vert	PK	0.0	58.5	74.0	-15.5	Low CH (2412MHz), 6Mbps, EUT Vertical
4823.733	26.2	10.2	1.0	134.0	3.0	0.0	Horz	AV	0.0	36.4	54.0	-17.6	Low CH (2412MHz), 11Mbps, EUT Horiz
7310.647	37.4	19.0	2.2	30.0	3.0	0.0	Vert	PK	0.0	56.4	74.0	-17.6	Mid CH (2437MHz), 1Mbps, EUT Horiz
7312.060	37.3	19.0	1.0	274.0	3.0	0.0	Horz	PK	0.0	56.3	74.0	-17.7	Mid CH (2437MHz), 11Mbps, EUT Horiz
4873.633	25.8	10.4	1.0	98.0	3.0	0.0	Horz	AV	0.0	36.2	54.0	-17.8	Mid CH (2437MHz), 11Mbps, EUT On Side
4872.933	25.8	10.4	2.1	257.0	3.0	0.0	Vert	AV	0.0	36.2	54.0	-17.8	Mid CH (2437MHz), 11Mbps, EUT Horiz
4822.980	25.9	10.2	1.0	206.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Low CH (2412MHz), 11Mbps, EUT Horiz
4873.707	25.7	10.4	1.0	344.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Mid CH (2437MHz), 11Mbps, EUT On Side
4872.167	25.7	10.4	1.0	340.0	3.0	0.0	Horz	AV	0.0	36.1	54.0	-17.9	Mid CH (2437MHz), 11Mbps, EUT Horiz
4872.000	25.7	10.4	1.0	95.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Mid CH (2437MHz), 11Mbps, EUT Vertical
4872.187	25.6	10.4	1.0	148.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	Mid CH (2437MHz), 11Mbps, EUT Vertical
4923.713	25.4	10.6	1.0	259.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	High CH (2462MHz), 11Mbps, EUT Horiz
4922.833	25.4	10.6	1.0	325.0	3.0	0.0	Vert	AV	0.0	36.0	54.0	-18.0	High CH (2462MHz), 11Mbps, EUT Horiz
7310.967	37.0	19.0	1.0	274.0	3.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	Mid CH (2437MHz), 36Mbps, EUT Horiz
7309.493	36.9	18.9	2.2	30.0	3.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	Mid CH (2437MHz), 54Mbps, EUT Horiz
7311.580	36.8	19.0	1.0	274.0	3.0	0.0	Horz	PK	0.0	55.8	74.0	-18.2	Mid CH (2437MHz), 54Mbps, EUT Horiz
7309.620	36.7	19.0	2.2	30.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	Mid CH (2437MHz), 11Mbps, EUT Horiz
7312.500	36.6	19.0	1.0	274.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Mid CH (2437MHz), 6Mbps, EUT Horiz
7310.633	36.6	19.0	2.2	30.0	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	Mid CH (2437MHz), 36Mbps, EUT Horiz
7388.000	36.2	19.3	1.0	325.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	High CH (2462MHz), 11Mbps, EUT Horiz
7387.020	36.2	19.3	1.0	158.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	High CH (2462MHz), 11Mbps, EUT Horiz
7310.707	36.5	19.0	2.2	30.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	Mid CH (2437MHz), 6Mbps, EUT Horiz
7310.533	36.4	19.0	1.0	274.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Mid CH (2437MHz), 1Mbps, EUT Horiz
4924.387	36.7	10.6	1.0	325.0	3.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	High CH (2462MHz), 11Mbps, EUT Horiz
4874.633	36.6	10.4	1.0	95.0	3.0	0.0	Vert	PK	0.0	47.0	74.0	-27.0	Mid CH (2437MHz), 11Mbps, EUT Vertical
4925.973	36.3	10.6	1.0	259.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	High CH (2462MHz), 11Mbps, EUT Horiz
4872.820	36.4	10.4	1.0	98.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	Mid CH (2437MHz), 11Mbps, EUT On Side
4824.707	36.4	10.3	1.0	134.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	Low CH (2412MHz), 11Mbps, EUT Horiz
4825.540	36.3	10.3	1.0	206.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Low CH (2412MHz), 11Mbps, EUT Horiz
4872.920	36.1	10.4	2.1	257.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	Mid CH (2437MHz), 11Mbps, EUT Horiz
4873.913	36.0	10.4	1.0	344.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	Mid CH (2437MHz), 11Mbps, EUT On Side
4873.640	35.8	10.4	1.0	148.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	Mid CH (2437MHz), 11Mbps, EUT Vertical
4872.240	35.7	10.4	1.0	340.0	3.0	0.0	Horz	PK	0.0	46.1	74.0	-27.9	Mid CH (2437MHz), 11Mbps, EUT Horiz
12308.000	27.1	-3.5	1.0	81.0	3.0	0.0	Vert	AV	0.0	23.6	54.0	-30.4	High CH (2462MHz), 11Mbps, EUT Horiz
12308.000	27.1	-3.5	1.0	330.0	3.0	0.0	Horz	AV	0.0	23.6	54.0	-30.4	High CH (2462MHz), 11Mbps, EUT Horiz
12060.570	28.5	-5.1	1.0	208.0	3.0	0.0	Vert	AV	0.0	23.4	54.0	-30.6	Low CH (2412MHz), 11Mbps, EUT Horiz
12060.990	28.4	-5.1	1.7	78.0	3.0	0.0	Horz	AV	0.0	23.3	54.0	-30.7	Low CH (2412MHz), 11Mbps, EUT Horiz
12183.050	27.2	-4.3	1.0	218.0	3.0	0.0	Horz	AV	0.0	22.9	54.0	-31.1	Mid CH (2437MHz), 11Mbps, EUT Horiz
12183.040	27.2	-4.3	1.0	137.0	3.0	0.0	Vert	AV	0.0	22.9	54.0	-31.1	Mid CH (2437MHz), 11Mbps, EUT Horiz
12059.600	43.9	-5.1	1.7	78.0	3.0	0.0	Horz	PK	0.0	38.8	74.0	-35.2	Low CH (2412MHz), 11Mbps, EUT Horiz
12309.490	42.2	-3.5	1.0	81.0	3.0	0.0	Vert	PK	0.0	38.7	74.0	-35.3	High CH (2462MHz), 11Mbps, EUT Horiz
12059.950	43.8	-5.1	1.0	208.0	3.0	0.0	Vert	PK	0.0	38.7	74.0	-35.3	Low CH (2412MHz), 11Mbps, EUT Horiz
12309.080	41.7	-3.5	1.0	330.0	3.0	0.0	Horz	PK	0.0	38.2	74.0	-35.8	High CH (2462MHz), 11Mbps, EUT Horiz
12186.810	42.0	-4.3	1.0	218.0	3.0	0.0	Horz	PK	0.0	37.7	74.0	-36.3	Mid CH (2437MHz), 11Mbps, EUT Horiz
12186.450	41.7	-4.3	1.0	137.0	3.0	0.0	Vert	PK	0.0	37.4	74.0	-36.6	Mid CH (2437MHz), 11Mbps, EUT Horiz