FCC 47 CFR PART 15 SUBPART C

MANUFACTURER'S TEST REPORT

FOR

TOUCHSCREEN CONTROLLER

MODEL NUMBER: LCP500-L

FCC ID: CFS8DL-LCP500L

REPORT NUMBER: R10842577-E1A

ISSUE DATE: 2015-11-24

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Revision History

Rev.	Issue Date	Revisions	Revised By
0	2015-08-28	Initial Issue	B. Kiewra
1a	2015-11-24	Revised duty cycle from 6.976% to 26.6%. Revised antenna gain from 4 dBi to 2.87 dBi on page 7.	J. Moser

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS 4

2. TEST METHODOLOGY 5

3. FACILITIES AND ACCREDITATION 5

4. CALIBRATION AND UNCERTAINTY 5

4.1. MEASURING INSTRUMENT CALIBRATION 5

4.2. SAMPLE CALCULATION 5

4.3. MEASUREMENT UNCERTAINTY 6

5. EQUIPMENT UNDER TEST 7

5.1. DESCRIPTION OF EUT 7

5.2. DESCRIPTION OF AVAILABLE ANTENNAS 7

5.3. SOFTWARE AND FIRMWARE 7

5.4. WORST-CASE CONFIGURATION AND MODE 7

5.5. DESCRIPTION OF TEST SETUP 8

6. TEST AND MEASUREMENT EQUIPMENT 10

7. ON TIME AND DUTY CYCLE RESULTS 11

8. RADIATED TEST RESULTS 12

8.1. LIMITS AND PROCEDURE 12

8.2. TRANSMITTER ABOVE 1 GHz 13

8.2.1. TX ABOVE 1 GHz FOR 802.15.4 MODE IN THE 2.4 GHz BAND 13

8.3. WORST-CASE BELOW 1 GHz 33

9. SETUP PHOTOS 35

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HONEYWELL SECURITY
2 CORPORATE CENTER DR
SUITE 100 PO BOX 9040
MELVILLE, NY, 11747, USA

EUT DESCRIPTION: Touchscreen Controller

MODEL: LCP500-L

SERIAL NUMBER: Non-Serialized (Identified as FCC#1)

DATE TESTED: June 25-29, 2015

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C (Radiated Emissions, per 15.205, 15.209, 15.247[d])	PASS

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL LLC By:	Reviewed By:	Prepared By:
Bob DeLisi	Jeff Moser	Brian Kiewra
EMC Certification Engineer	EMC Program Manager	EMC Engineer

UL – Consumer Technology Division

2. TEST METHODOLOGY

For FCC: The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2 and FCC CFR 47 Part 15. This report is a manufacturer's specification report that includes radiated emissions, only.

Note – Radiated testing above 1GHz was performed on a 1.5m table height, per ANSI C63.10: 2013. All other testing was performed per ANSI C63.10: 2009.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Dr., Research Triangle Park, NC 27709, USA.

12 Laboratory Dr., RTP, NC 27709
☐ Chamber A
☒ Chamber C

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0. The full scope of accreditation can be viewed at http://www.nist.gov/nvlap/.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test	Uncertainty
Radiated Disturbance (30 to 1000 MHz)	+/- 6.04 dB (3m)
Radiated Disturbance (1 to 6 GHz)	+/- 5.96 dB
Radiated Disturbance (6 to 18 GHz)	+/- 6.10 dB
Radiated Disturbance (18 to 26 GHz)	+/- 6.81 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a wireless touchscreen controller for security purposes. The device contains an 802.15.4 Zigbee transceiver. The device operates from 2405-2475 MHz.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two PIFA antennas, with a maximum gain of 2.87 dBi.

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 4799.

The test utility software used during testing was V0.02.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission was performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, for each antenna. It was determined that the X orientation was the worst-case orientation for ANT0 and the Y orientation the worst-case for ANT1. Therefore, all final radiated testing was performed with the EUT in X orientation for ANT0 and the Y orientation for ANT1.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number	FCC ID
EUT AC adapter	Honeywell	300-04705V1	886618145834	-

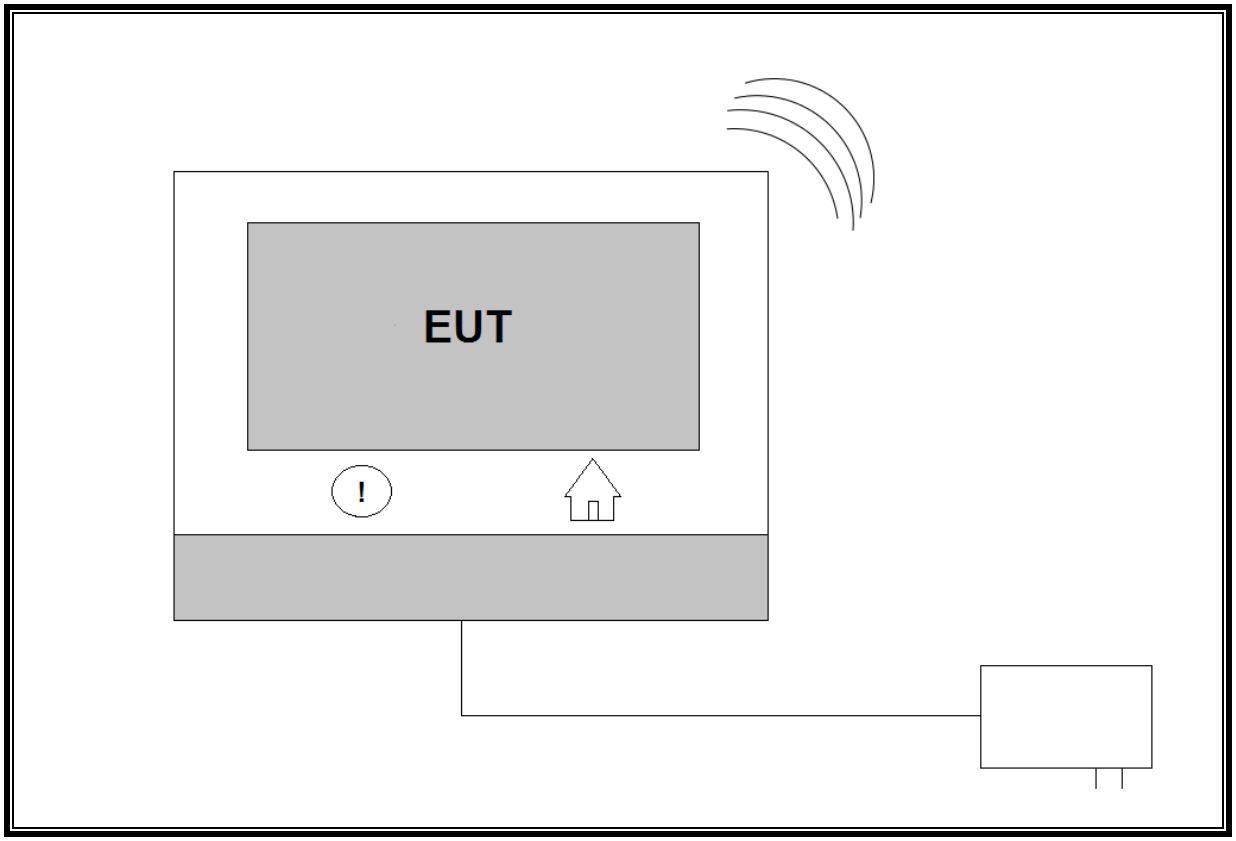
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	2C AC	N/A	0	Wall-wart AC adapter's AC input.
2	DC (9V)	1	Screw terminal	Unshielded	1.6	Wall-wart AC adapter DC output to EUT. Detachable.

TEST SETUP

The EUT is installed as a table top device. Test software exercised the radio part of the device.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Radiated Emission Measurement Equipment

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
AT0066	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB1	2014-07-10	2015-07-31
AT0062	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2014-07-22	2015-07-31
AT0063	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2014-07-23	2015-07-31
SAC_G (Hybrid)	Gain-Loss string for Hyrbid antenna at 3m	Various	Various	2015-02-01	2016-02-29
SAC_G (3117)	Gain-Loss string for 3117 antenna at 3m	Various	Various	2015-02-01	2016-02-29
AMP012	18-40GHz preamp	Miteq	JS44-18004000-33-8P	2014-07-18	2015-07-31
CBL252980-001	SF104A/11PC35/PC35/6706mm (22-ft.) DC-26.5GHz	Huber & Suhner	SUCOFLEX 104PEA	2014-07-21	2015-07-31
CBL252981-001	SF104A/11PC35/11PC35/1219mm (4-ft.) DC-26.5GHz	Huber & Suhner	SUCOFLEX 104PEA	2014-07-21	2015-07-31
SA0018	Spectrum Analyzer	Agilent	N9030A	2014-06-26	2015-06-30
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
HI0069	Temp/Humid/Pressure Meter	Cole-Parmer	99760-00	2014-06-27	2015-06-30

7. ON TIME AND DUTY CYCLE RESULTS

LIMITS

None; for reporting purposes only.

ON TIME AND DUTY CYCLE

The manufacturer stated that the device will be limited to a worst-case duty cycle (DC) of 26.6%. Hence a duty-cycle correction factor as described in FCC Part 15, Section 15.35(c) (RSS-Gen 6.10) was used to calculate an average value as follow:

Average Value [dBuV/m] = Peak Value [dBuV/m] + 20*log(DC/100)

Average Value [dBuV/m] = Peak Value [dBuV/m] + 20*log(26.6/100)

Average Value [dBuV/m] = Peak Value [dBuV/m] - 11.5dB

Justification for use of 15.35(c) and measurements of worst-case duty cycle to be supplied, in a separate document, by Honeywell.

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz measurements and 1.5 m above the ground plane for above 1GHz measurements. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

Signals that were pulsed and associated with the fundamental were averaged using the duty cycle correction, per 15.35(c). Signals that were not associated with the fundamental and not pulsed were averaged using KDB558074 Option 1 (Maximum RMS Average).

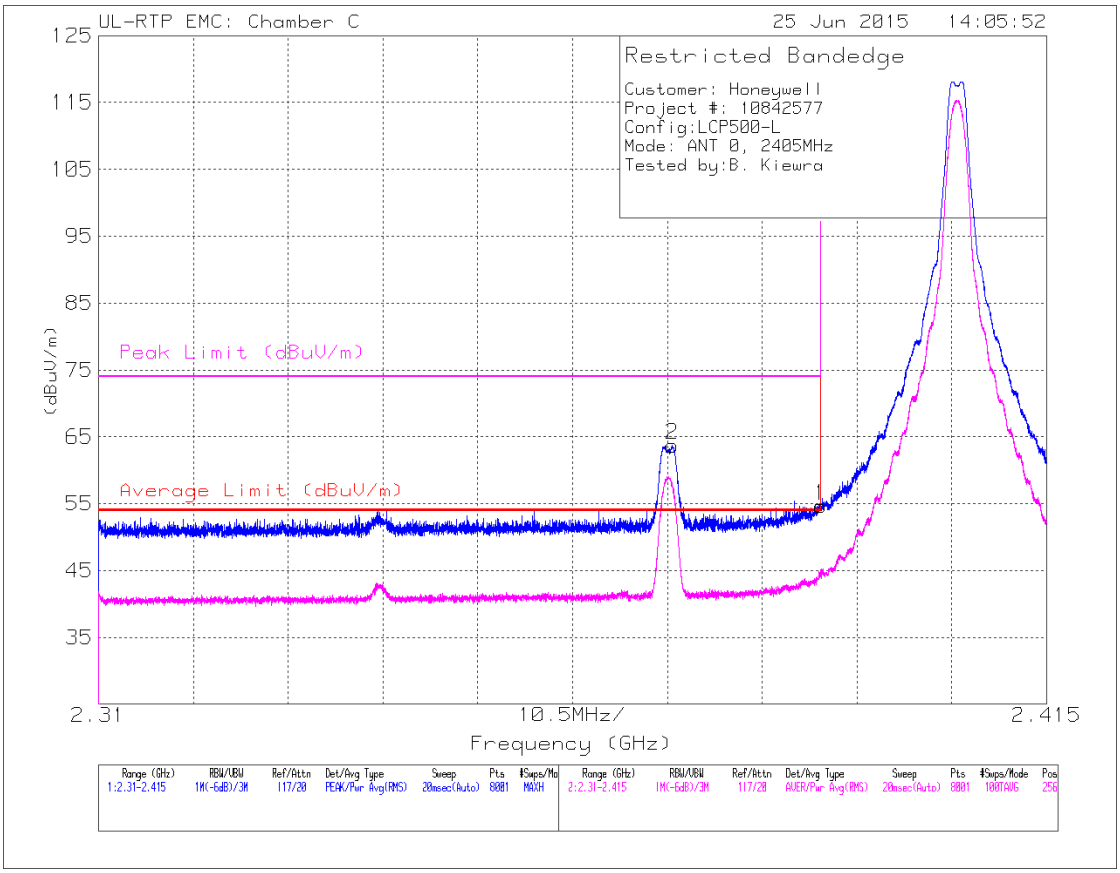
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. TX ABOVE 1 GHz FOR 802.15.4 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL) ANT0

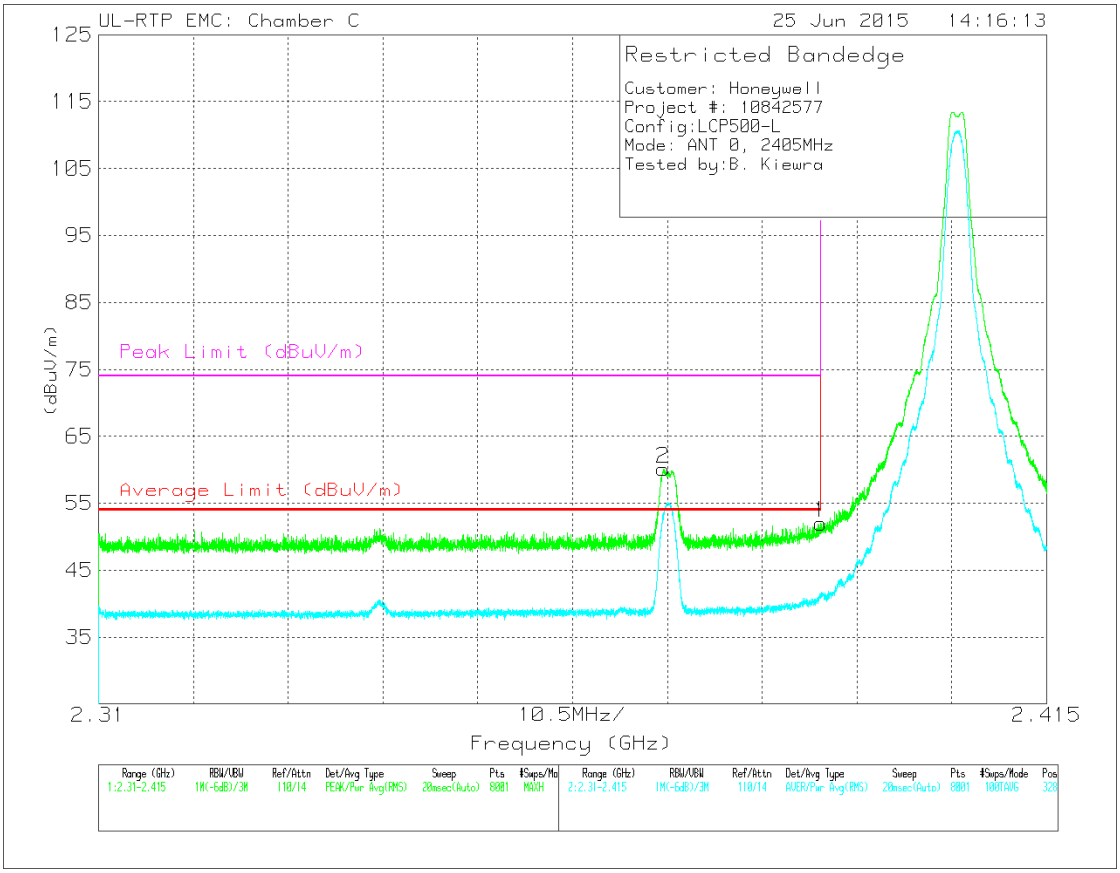


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	49.29	Pk	32.1	-26.7	-	54.7	-	-	74.0	-19.3	256	113	H
	* 2.39	49.29	AV	32.1	-26.7	-11.5	43.2	54.0	-10.8	-	-	256	113	H
2	* 2.374	58.45	Pk	32.0	-26.7	-	63.8	-	-	74.0	-10.2	256	113	H
	* 2.374	58.45	AV	32.0	-26.7	-11.5	52.3	54.0	-1.7	-	-	256	113	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL) ANT0

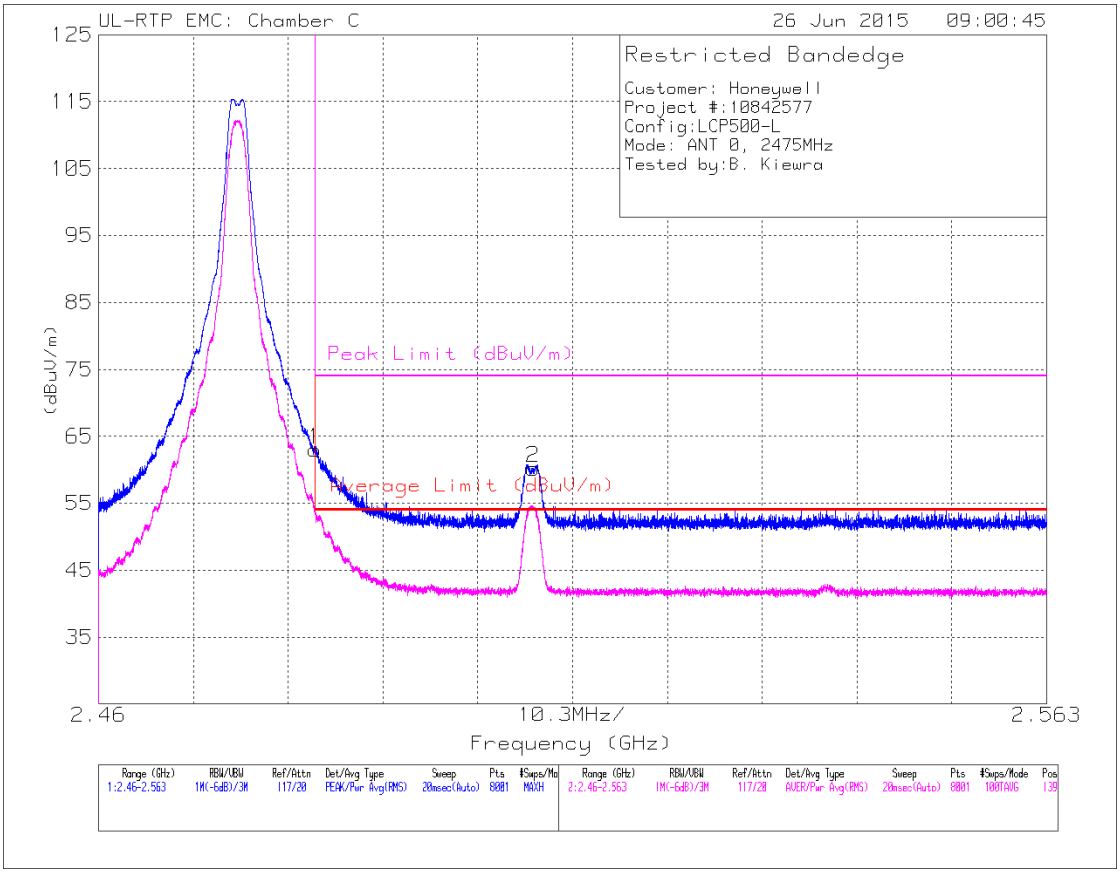


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.6	Pk	32.1	-26.7	-	52.0	-	-	74.0	-22.0	328	101	V
	* 2.39	46.6	AV	32.1	-26.7	-11.5	40.5	54.0	-13.5	-	-	328	101	V
2	* 2.373	54.9	Pk	32	-26.7	-	60.2	-	-	74.0	-13.8	328	101	V
	* 2.373	54.9	AV	32	-26.7	-11.5	48.7	54.0	-5.3	-	-	328	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL) ANT0

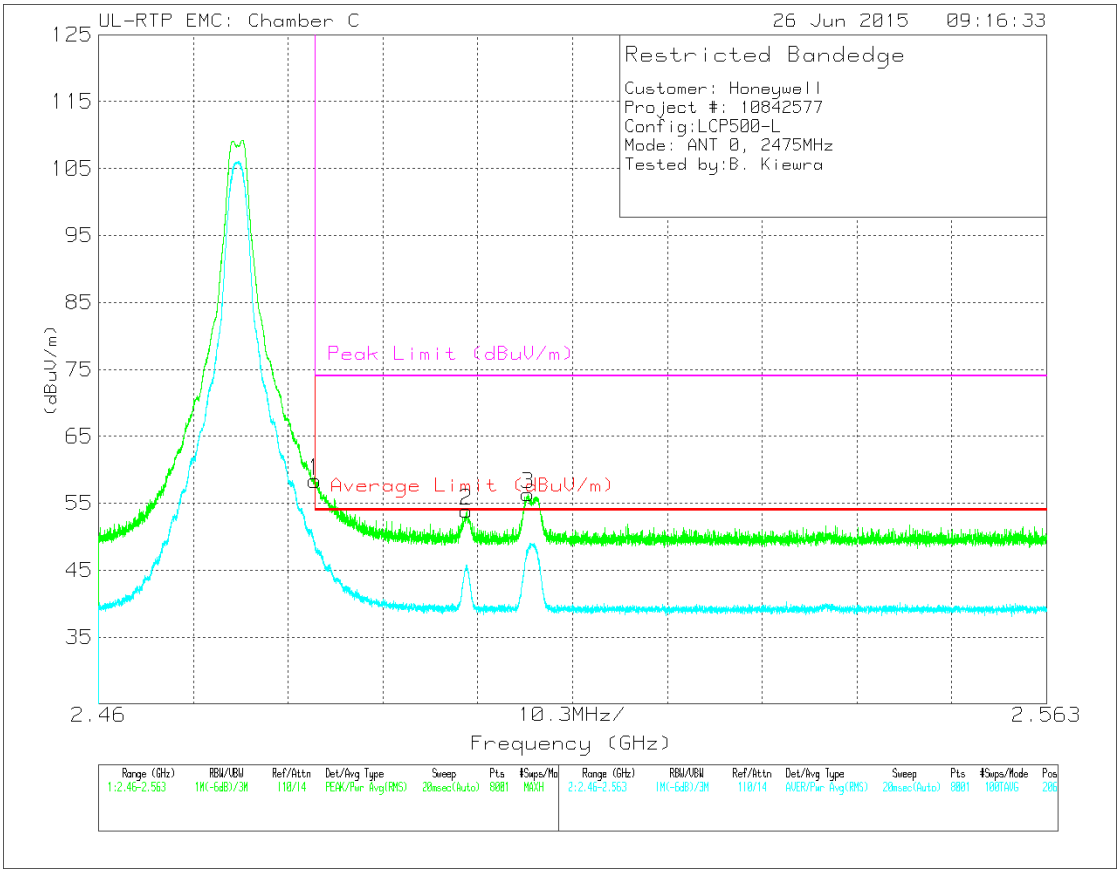


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	57.2	Pk	32.3	-26.5	-	63.0	-	-	74.0	-11.0	139	284	H
	* 2.484	57.2	AV	32.3	-26.5	-11.5	51.5	54.0	-2.5	-	-	139	284	H
2	2.507	54.3	Pk	32.4	-26.4	-	60.3	-	-	74.0	-13.8	139	284	H
	2.507	54.3	AV	32.4	-26.4	-11.5	48.8	54.0	-5.2	-	-	139	284	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) ANT0

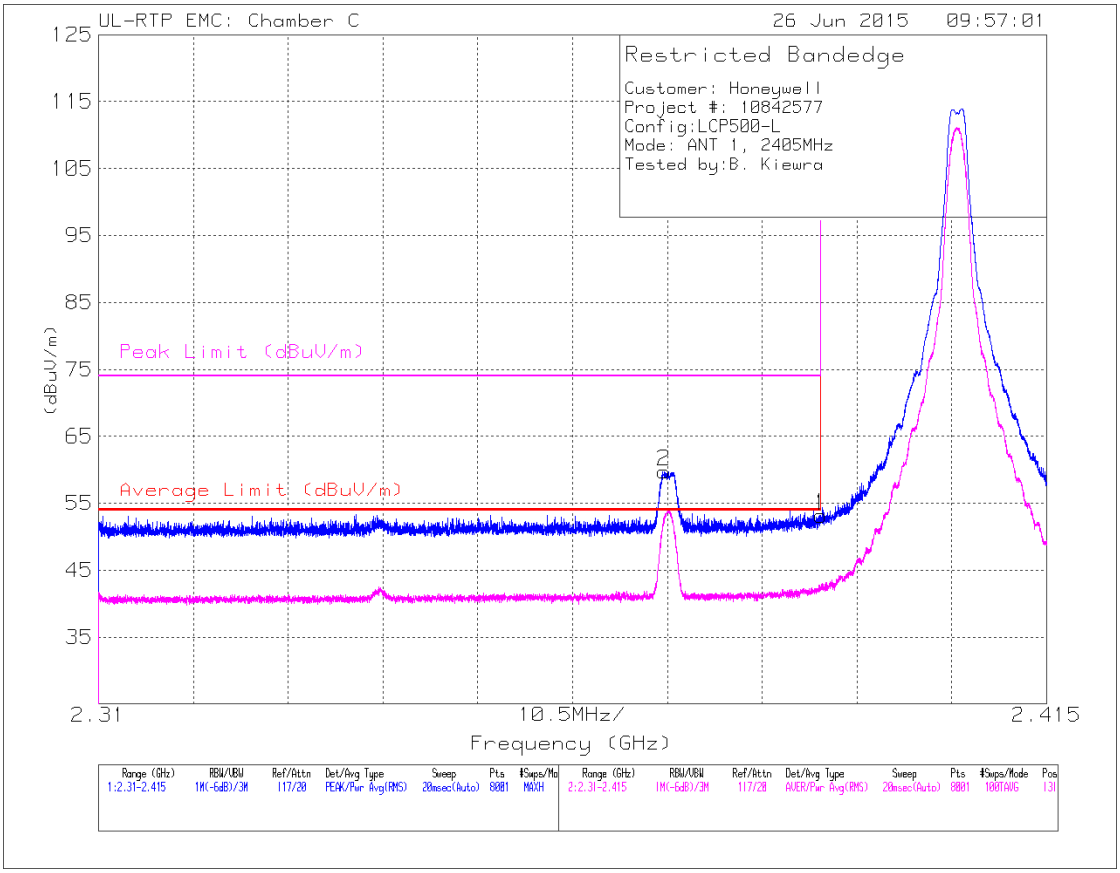


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.6	Pk	32.3	-26.5	-	58.4	-	-	74.0	-15.64	206	129	V
	* 2.484	52.6	AV	32.3	-26.5	-11.5	46.9	54.0	-7.1	-	-	206	129	V
2	* 2.500	47.9	Pk	32.4	-26.4	-	53.9	-	-	74.0	-20.13	206	129	V
	* 2.500	47.9	AV	32.4	-26.4	-11.5	42.4	54.0	-11.6	-	-	206	129	V
3	2.507	50.4	Pk	32.4	-26.4	-	56.4	-	-	74.0	-17.62	206	129	V
	2.507	50.4	AV	32.4	-26.4	-11.5	44.9	54.0	-9.1	-	-	206	129	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL) ANT1

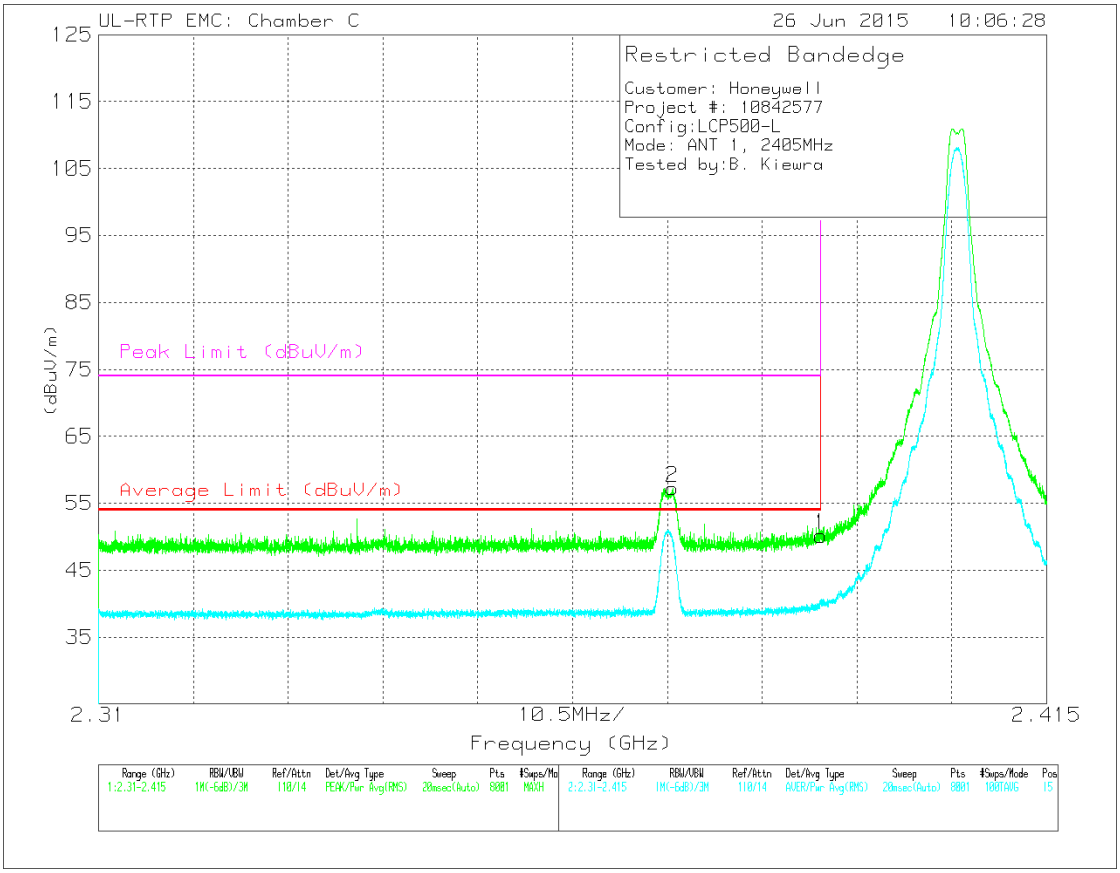


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.390	47.8	Pk	32.1	-26.7	-	53.2	-	-	74.0	-20.9	131	201	H
	* 2.390	47.8	AV	32.1	-26.7	-11.5	41.7	54.0	-12.3	-	-	131	201	H
2	* 2.373	54.5	Pk	32.0	-26.7	-	59.8	-	-	74.0	-14.2	131	201	H
	* 2.373	54.5	AV	32.0	-26.7	-11.5	48.3	54.0	-5.7	-	-	131	201	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL) ANT1

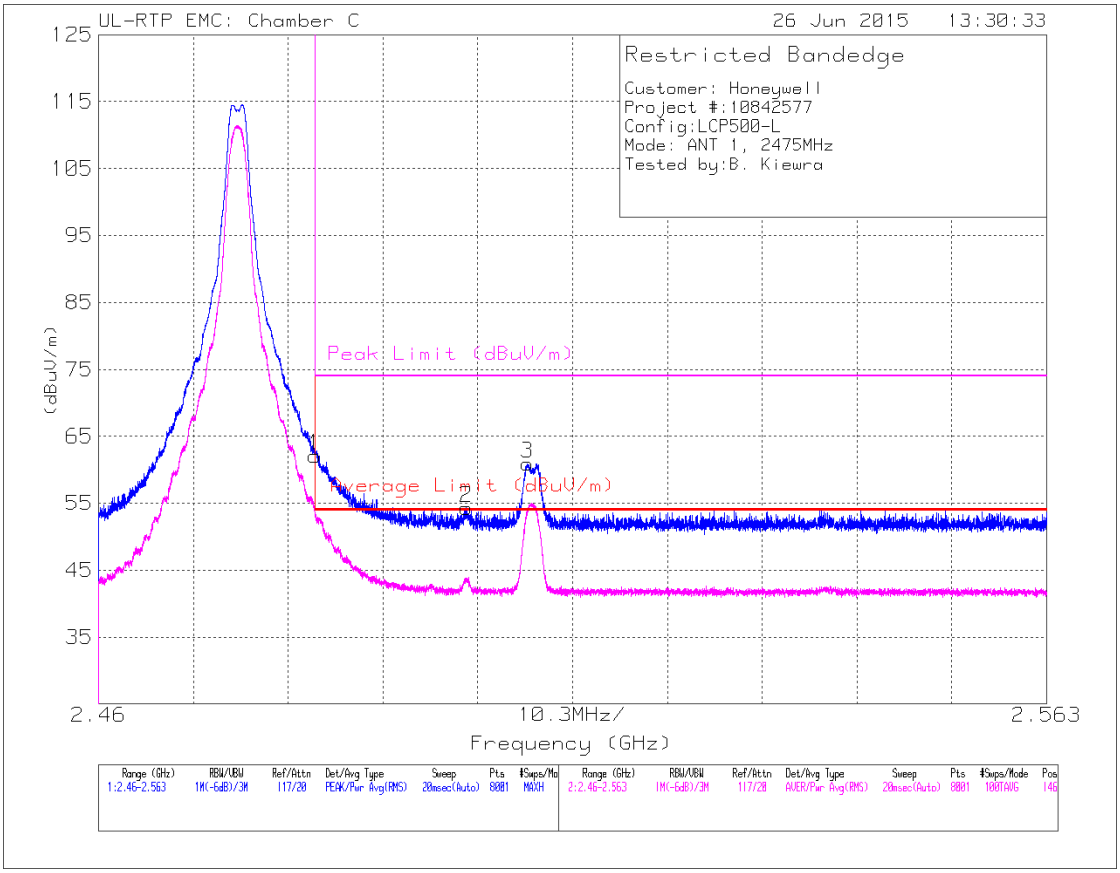


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.8	Pk	32.1	-26.7	-	50.2	-	-	74.0	-23.8	15	401	V
	* 2.39	44.8	AV	32.1	-26.7	-11.5	38.7	54.0	-15.3	-	-	15	401	V
2	* 2.374	52.0	Pk	32.0	-26.7	-	57.3	-	-	74.0	-16.7	15	401	V
	* 2.374	52.0	Av	32.0	-26.7	-11.5	45.8	54.0	-8.2	-	-	15	401	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL) ANT1

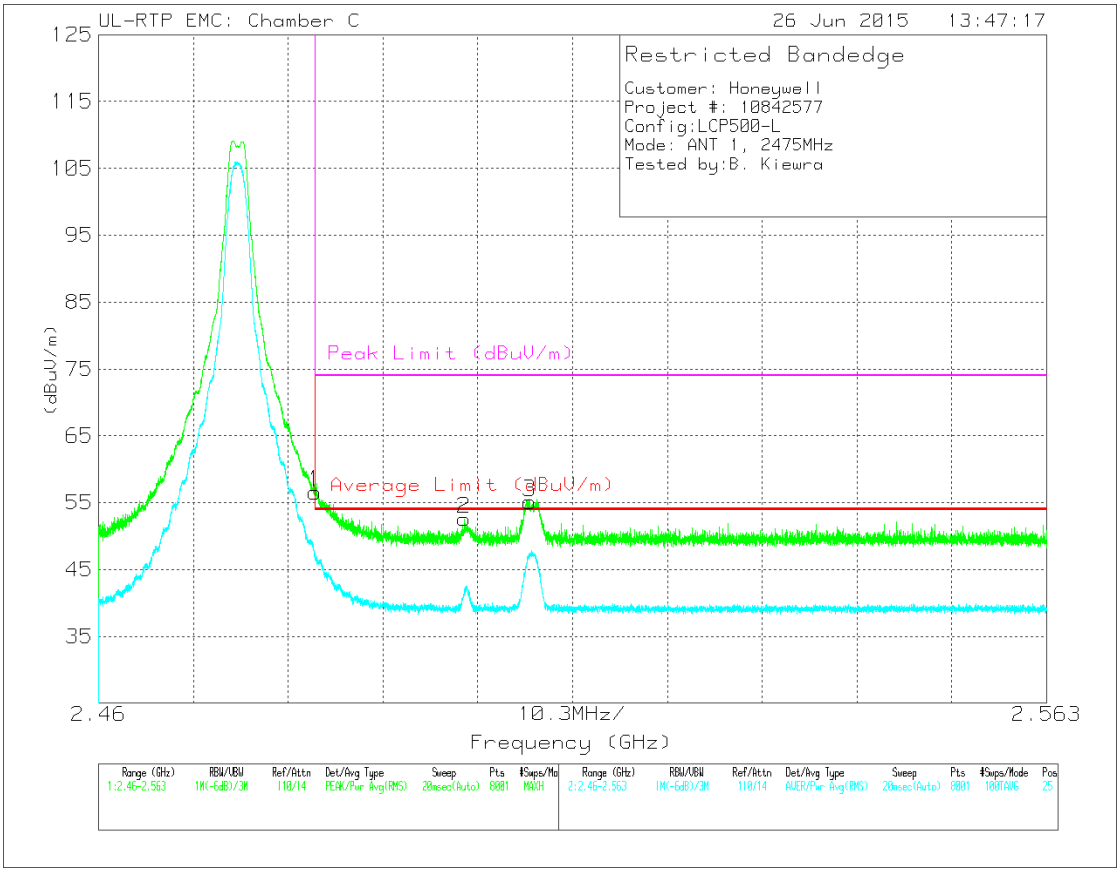


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	56.3	Pk	32.3	-26.5	-	62.1	-	-	74.0	-11.9	146	211	H
	* 2.484	56.3	AV	32.3	-26.5	-11.5	50.6	54.0	-3.4	-	-	146	211	H
2	* 2.500	48.3	Pk	32.4	-26.4	-	54.3	-	-	74.0	-19.7	146	211	H
	* 2.500	48.3	AV	32.4	-26.4	-11.5	42.8	54.0	-11.2	-	-	146	211	H
3	2.507	54.9	Pk	32.4	-26.4		60.9	-	-	74.0	-13.1	146	211	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) ANT1

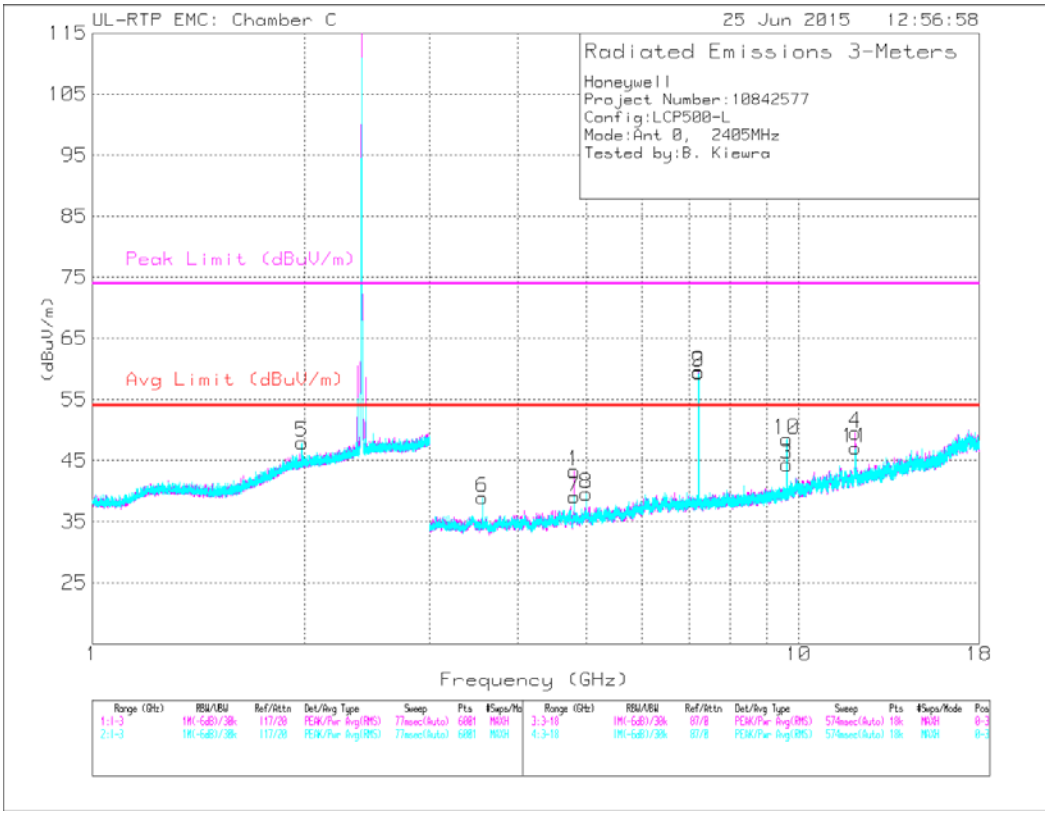


Note: An r.m.s. average trace was generated to show that there were no other emissions hidden within the peak noise floor.

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.8	Pk	32.3	-26.5	-	56.6	-	-	74.0	-17.4	25	150	V
	* 2.484	50.8	AV	32.3	-26.5	-11.5	45.1	54.0	-8.9	-	-	25	150	V
2	* 2.500	46.6	Pk	32.4	-26.4	-	52.6	-	-	740	-21.4	25	150	V
	* 2.500	46.6	AV	32.4	-26.4	-11.5	41.1	54.0	-12.9	-	-	25	150	V
3	2.507	49.1	Pk	32.4	-26.4	-	55.1	-	-	74.0	-18.9	25	150	V
	2.507	49.1	AV	32.4	-26.4	-11.5	43.6	54.0	-10.4	-	-	25	150	V

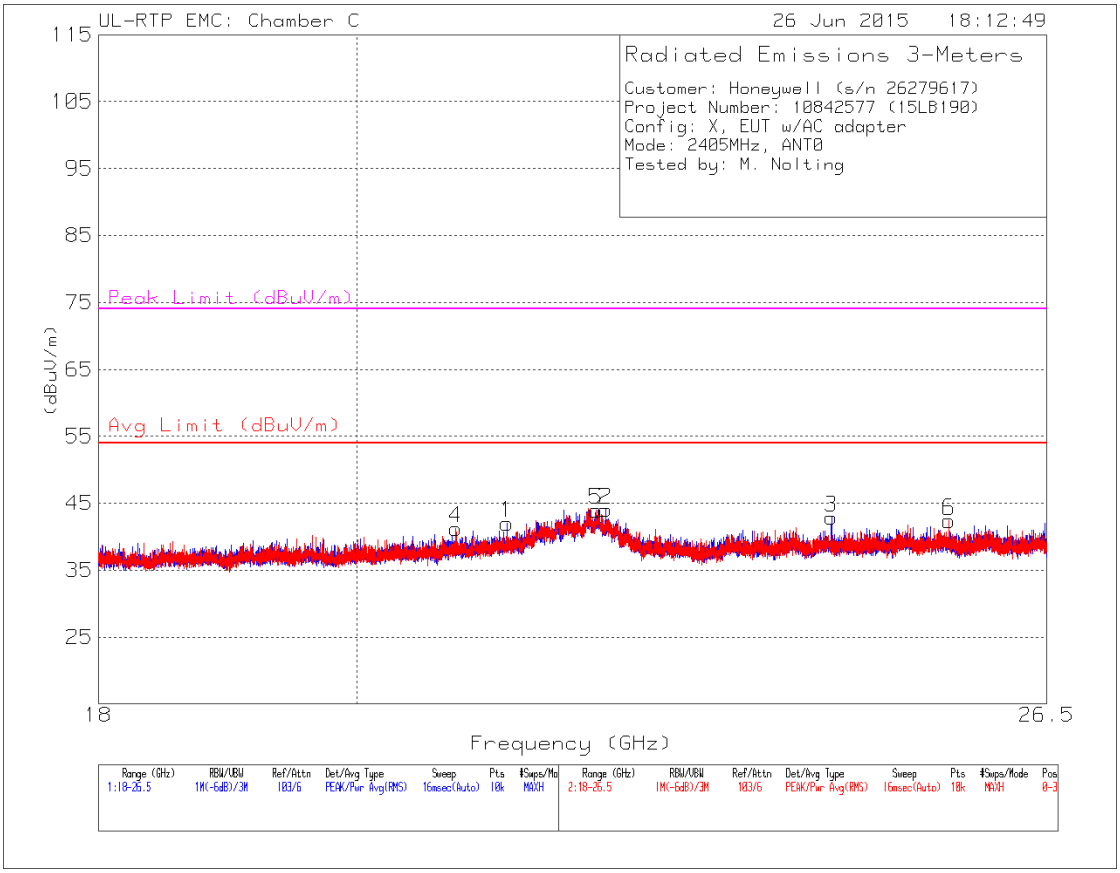
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

HARMONICS AND SPURIOUS EMISSIONS – LOW CHANNEL ANT0



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.811	48.8	PK2	34.1	-32.8	-	50.1	-	-	74.0	-24.0	138	237	H
	* 4.811	48.8	AV	34.1	-32.8	-11.5	38.6	54.0	-15.4	-	-	138	237	H
2	7.214	52.8	Pk	35.6	-28.8	-	59.6	-	-	74.0	-14.4	0-360	250	H
3	9.622	35.4	Pk	36.8	-27.8	-	44.4	-	-	74.0	-29.6	0-360	250	H
4	* 12.023	42.8	PK2	38.7	-25.0	-	56.5	-	-	74.0	-17.5	213	305	H
	* 12.023	42.8	AV	38.7	-25.0	-11.5	45.0	54.0	-9.0	-	-	213	305	H
5	1.981	44.3	Pk	31.5	-27.8	-	48.0	-	-	74.0	-26.0	0-360	250	V
6	* 3.564	50.4	PK2	33.0	-34.4	-	49.0	-	-	74.0	-25.0	6	206	V
	* 3.564	33.7	MAv1	33.0	-34.4	-	32.3	54.0	-21.7	-	-	6	206	V
7	* 4.811	45.1	PK2	34.1	-32.8	-	46.4	-	-	74.0	-27.6	23	111	V
	* 4.811	45.1	AV	34.1	-32.8	-11.5	34.9	54.0	-19.1	-	-	23	111	V
8	* 5.000	45.8	PK2	34.1	-31.9	-	48.0	-	-	74.0	-26.0	32	105	V
	* 5.000	37.5	MAv1	34.1	-31.9	-	39.7	54.0	-14.3	-	-	32	105	V
9	7.216	52.6	Pk	35.6	-28.8	-	59.4	-	-	74.0	-14.6	0-360	250	V
10	9.622	39.5	Pk	36.8	-27.8	-	48.5	-	-	74.0	-25.5	0-360	151	V
11	* 12.023	42.7	PK2	38.7	-25.0	-	56.4	-	-	74.0	-17.6	83	105	V
	* 12.023	42.7	AV	38.7	-25.0	-11.5	44.9	54.0	-9.1	-	-	83	105	V

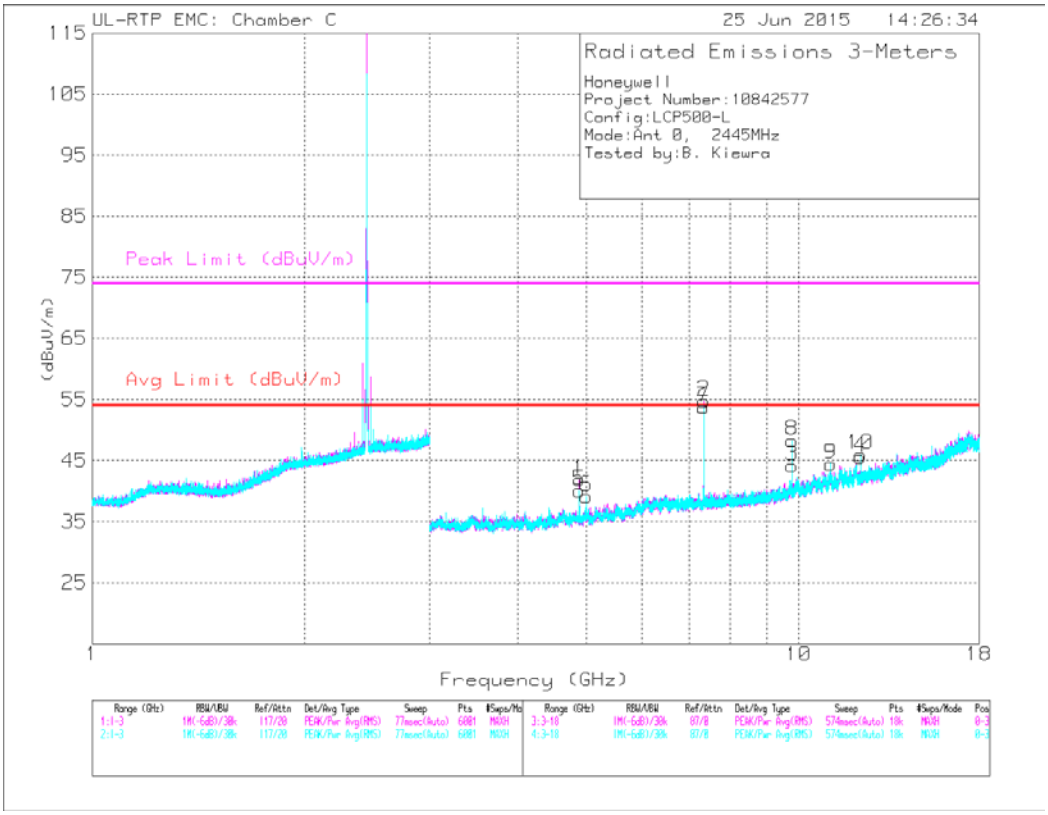
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 21.265	53.91	Pk	33.9	-45.8	42.01	54	-11.99	74	-31.99	0-360	150	H
2	* 22.143	55.03	Pk	36.6	-45.9	45.73	-	-	74	-28.27	10	227	H
	* 22.144	43.65	Av	36.6	-45.9	34.35	54	-19.65	-	-	10	227	H
4	* 20.826	53.93	Pk	33.3	-46	41.23	54	-12.77	74	-32.77	0-360	175	V
5	* 22.048	55.03	Pk	36.9	-45.9	46.03	-	-	74	-27.97	350	200	V
	* 22.054	43.7	Av	36.9	-45.9	34.7	54	-19.3	-	-	350	200	V
3	24.273	54.48	Pk	33.6	-45.2	42.88	54	-11.12	74	-31.12	0-360	175	H
6	25.466	52.48	Pk	33.9	-44	42.38	54	-11.62	74	-31.62	0-360	225	V

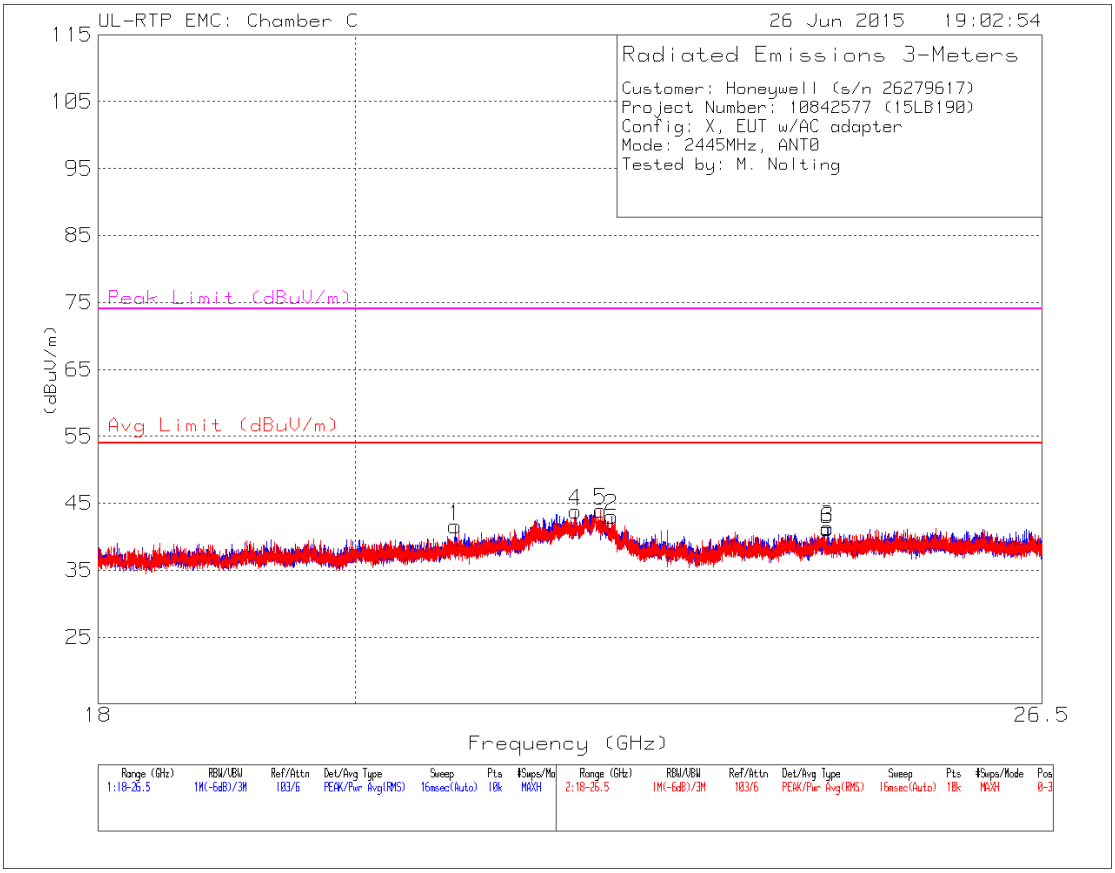
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Av - Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS – MID CHANNEL ANT0



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.891	48.2	PK2	34.0	-33.0	-	49.2	-	-	74.0	-24.8	131	220	H
	* 4.891	48.2	AV	34.0	-33.0	-11.5	37.7	54.0	-16.3	-	-	131	220	H
2	* 7.334	53.0	PK2	35.7	-28.9	-	59.8	-	-	74.0	-14.2	186	252	H
	* 7.334	53.0	AV	35.7	-28.9	-11.5	48.3	54.0	-5.7	-	-	186	252	H
3	9.782	34.1	Pk	37.0	-26.9	-	44.2	-	-	74.0	-29.8	0-360	250	H
4	* 12.228	41.4	PK2	38.9	-26.8	-	53.5	-	-	74.0	-20.5	207	266	H
	* 12.228	41.4	AV	38.9	-26.8	-11.5	42.0	54.0	-12.0	-	-	207	266	H
5	* 4.889	48.0	PK2	34.0	-33.0	-	49.0	-	-	74.0	-25.0	176	108	V
	* 4.889	48.0	AV	34.0	-33.0	-11.5	37.5	54.0	-16.5	-	-	176	108	V
6	* 5.000	45.6	PK2	34.1	-31.9	-	47.8	-	-	74.0	-26.3	41	113	V
	* 5.000	37.6	MAv1	34.1	-31.9	-	39.8	54.0	-14.2	-	-	41	113	V
7	* 7.334	52.4	PK2	35.7	-28.9	-	59.2	-	-	74.0	-14.8	277	249	V
	* 7.334	52.4	AV	35.7	-28.9	-11.5	47.7	54.0	-6.3	-	-	277	249	V
8	9.782	38.2	Pk	37.0	-26.9	-	48.3	-	-	74.0	-25.7	0-360	151	V
9	* 11.097	37.0	PK2	37.7	-24.1	-	50.6	-	-	74.0	-23.4	277	152	V
	* 11.097	26.3	MAv1	37.7	-24.1	-	39.9	54.0	-14.1	-	-	277	152	V
10	* 12.223	41.6	PK2	38.9	-26.7	-	53.8	-	-	74.0	-20.2	70	227	V
	* 12.223	41.6	AV	38.9	-26.8	-11.5	42.2	54.0	-11.8	-	-	70	227	V

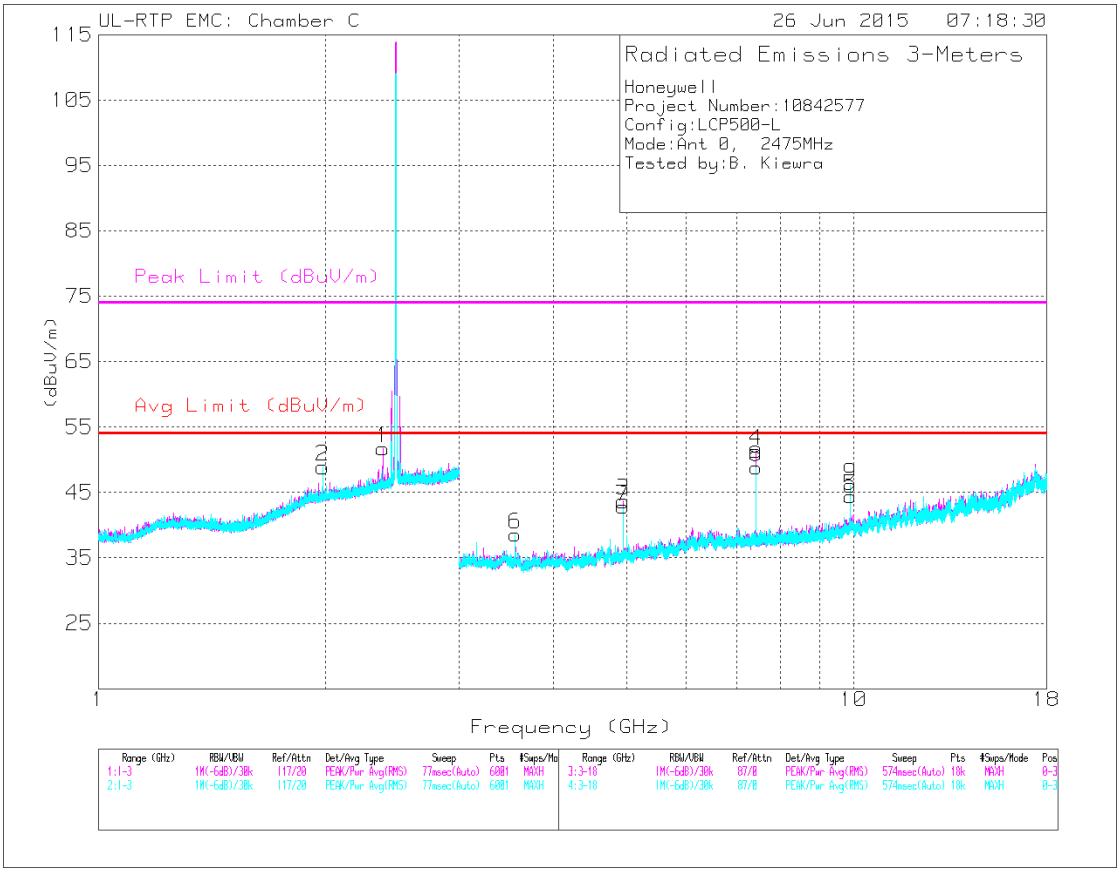
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.837	54.18	Pk	33.3	-45.9	41.58	54	-12.42	74	-32.42	0-360	200	H
2	* 22.215	52.75	Pk	36.1	-45.8	43.05	54	-10.95	74	-30.95	0-360	151	H
5	* 22.118	53.04	Pk	36.7	-45.8	43.94	54	-10.06	74	-30.06	0-360	200	V
4	21.891	52.91	Pk	36.7	-45.8	43.81	54	-10.19	74	-30.19	0-360	200	V
6	24.271	52.78	Pk	33.6	-45.2	41.18	54	-12.82	74	-32.82	0-360	175	V
3	24.273	52.99	Pk	33.6	-45.2	41.39	54	-12.61	74	-32.61	0-360	151	H

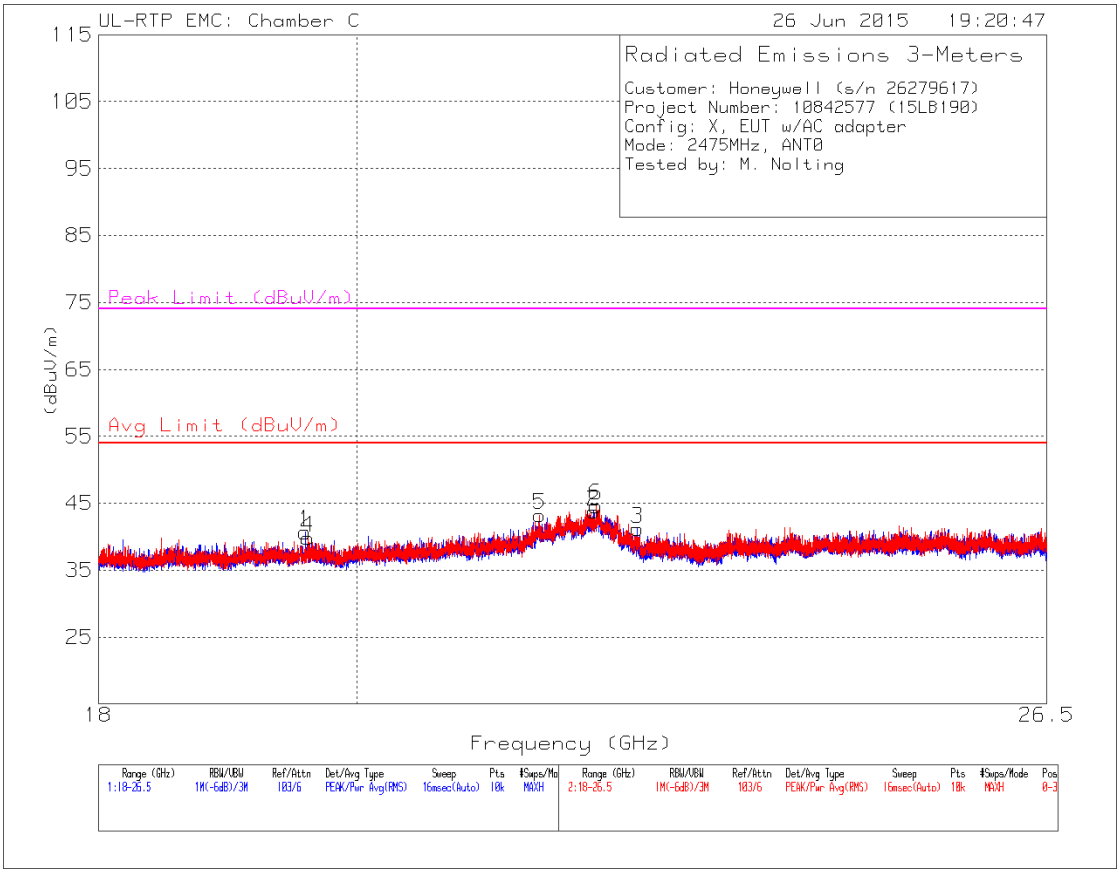
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS – HIGH CHANNEL ANT0



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.380	53.1	PK2	32.1	-26.7	-	58.5	-	-	74.0	-15.5	63	119	H
	* 2.379	45.2	MAv1	32.1	-26.7	-	50.6	54.0	-3.4	-	-	63	119	H
3	* 4.949	50.3	PK2	34.1	-32.8	-	51.6	-	-	74.0	-22.4	212	246	H
	* 4.949	50.3	AV	34.1	-32.8	-11.5	40.1	54.0	-13.9	-	-	212	246	H
4	* 7.424	47.4	PK2	35.7	-28.6	-	54.5	-	-	74.0	-19.6	182	332	H
	* 7.424	47.4	AV	35.7	-28.6	-11.5	43.0	54.0	-11.0	-	-	182	332	H
5	9.902	33.6	Pk	37.1	-26.3	-	44.4	-	-	74.0	-29.6	0-360	250	H
2	1.980	45.2	Pk	31.5	-27.8	-	48.9	-	-	74.0	-25.1	0-360	151	V
6	* 3.564	51.6	PK2	33.0	-34.4	-	50.2	-	-	74.0	-23.8	123	134	V
	* 3.564	34.4	MAv1	33.0	-34.4	-	33.0	54.0	-21.0	-	-	123	134	V
7	* 4.951	47.7	PK2	34.1	-32.8	-	49.0	-	-	74.0	-25.0	68	195	V
	* 4.951	47.7	AV	34.1	-32.8	-11.5	37.5	54.0	-16.5	-	-	68	195	V
8	* 7.427	47.0	PK2	35.7	-28.6	-	54.1	-	-	74.0	-19.9	277	233	V
	* 7.424	47.0	AV	35.7	-28.6	-11.5	42.6	54.0	-11.4	-	-	277	233	V
9	9.902	35.3	Pk	37.1	-26.3	-	46.1	-	-	74.0	-27.9	0-360	250	V

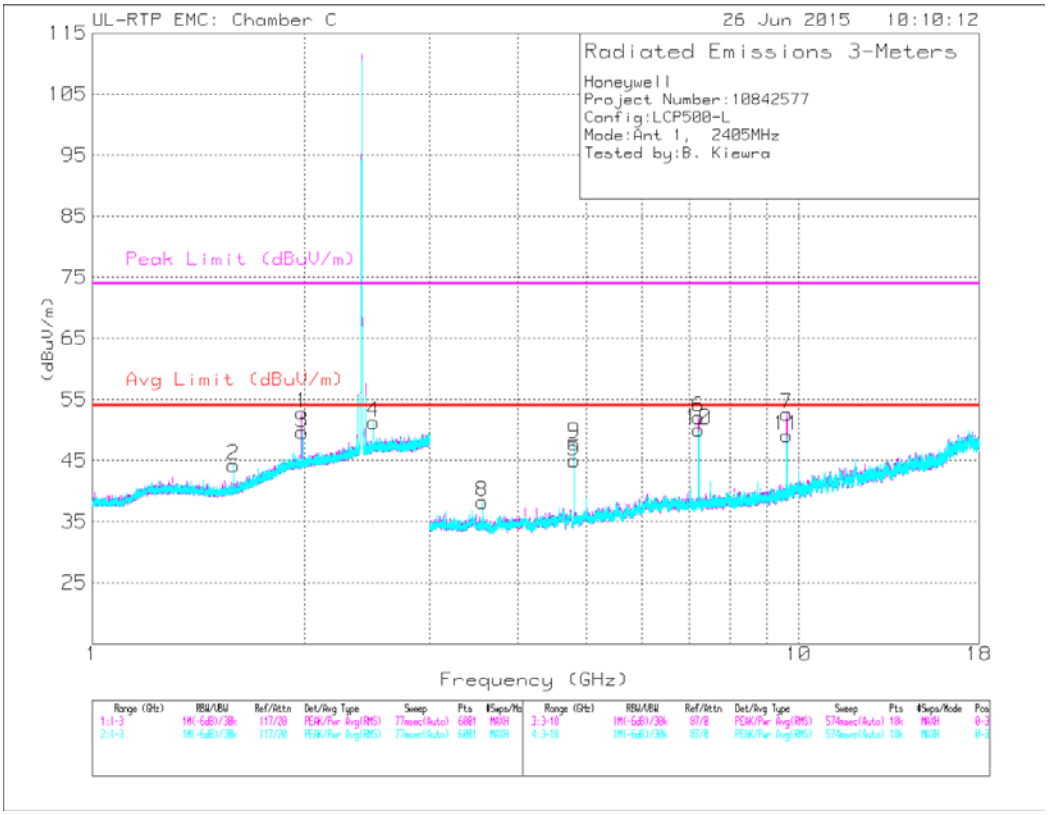
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.583	54.38	Pk	32.6	-46.3	40.68	54	-13.32	74	-33.32	0-360	225	H
2	* 22.031	52.69	Pk	36.9	-45.8	43.79	54	-10.21	74	-30.21	0-360	225	H
3	* 22.427	51.98	Pk	35.1	-45.9	41.18	54	-12.82	74	-32.82	0-360	175	H
4	* 19.605	53.44	Pk	32.7	-46.3	39.84	54	-14.16	74	-34.16	0-360	200	V
6	* 22.049	55.68	Pk	36.9	-45.9	46.68	-	-	74	-27.32	157	152	V
	* 22.053	44.02	Av	36.9	-45.9	35.02	54	-18.98	-	-	157	152	V
5	21.55	53.75	Pk	35.3	-45.8	43.25	54	-10.75	74	-30.75	0-360	225	V

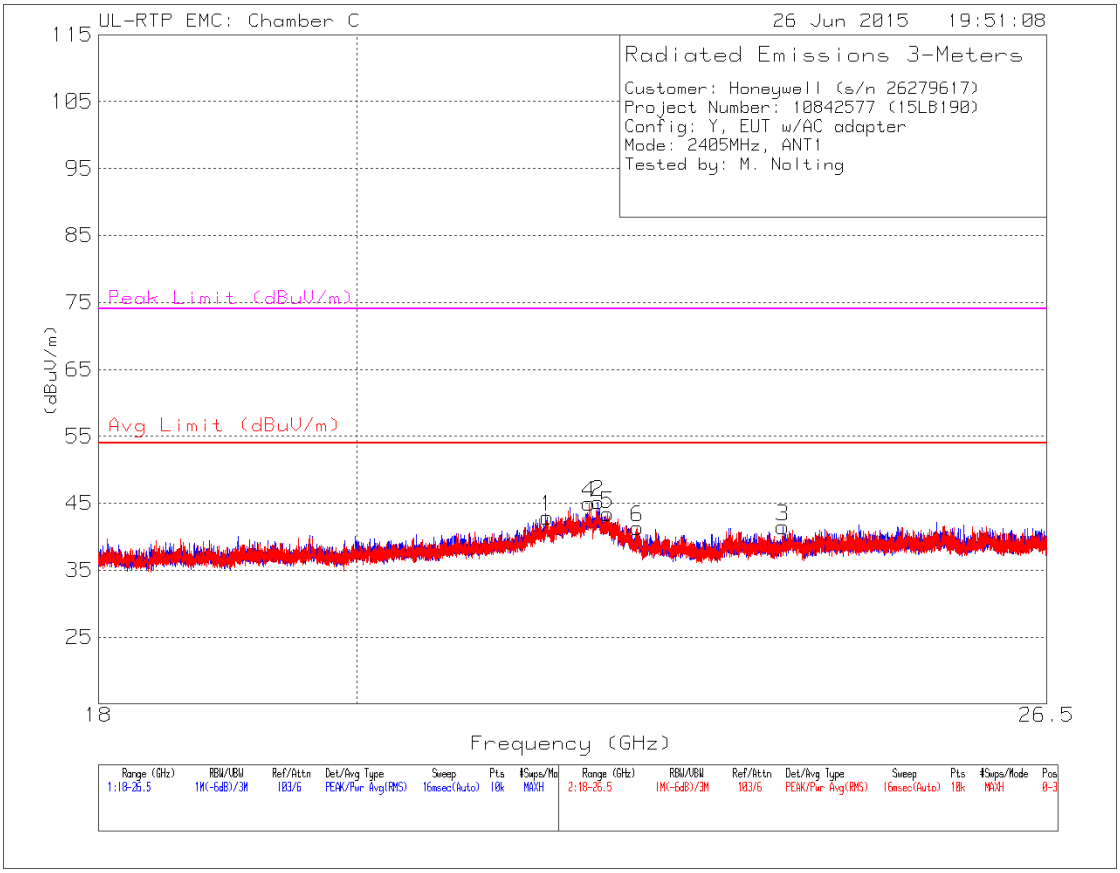
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Av - Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS – LOW CHANNEL ANT1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.979	49.1	Pk	31.5	-27.8	-	52.8	-	-	74.0	-21.2	0-360	250	H
5	* 4.811	48.3	PK2	34.1	-32.8	-	49.6	-	-	74.0	-24.4	83	223	H
	* 4.811	48.3	AV	34.1	-32.8	-11.5	38.1	54.0	-15.9	-	-	83	223	H
6	7.213	45.3	Pk	35.6	-28.8	-	52.1	-	-	74.0	-21.9	0-360	250	H
7	9.622	43.6	Pk	36.8	-27.8	-	52.6	-	-	74.0	-21.4	0-360	151	H
2	* 1.584	52.1	PK2	28.1	-28.6	-	51.6	-	-	74.0	-22.4	207	137	V
	* 1.584	42.0	MAv1	28.1	-28.6	-	41.5	54.0	-12.5	-	-	207	137	V
3	1.980	46.0	Pk	31.5	-27.8	-	49.7	-	-	74.0	-24.3	0-360	250	V
4	* 2.500	51.8	PK2	32.4	-26.4	-	57.8	-	-	74.0	-16.2	187	304	V
	* 2.500	43.4	MAv1	32.4	-26.4	-	49.4	54.0	-4.6	-	-	187	304	V
8	* 3.564	53.6	PK2	33.0	-34.4	-	52.2	-	-	74.0	-21.8	209	354	V
	* 3.564	35.0	MAv1	33.0	-34.4	-	33.6	54.0	-20.4	-	-	209	354	V
9	* 4.811	50.9	PK2	34.1	-32.8	-	52.2	-	-	74.0	-21.8	272	208	V
	* 4.811	50.9	AV	34.1	-32.8	-11.5	40.7	54.0	-13.3	-	-	272	208	V
10	7.216	43.3	Pk	35.6	-28.8	-	50.1	-	-	74.0	-23.9	0-360	151	V
11	9.618	40.1	Pk	36.8	-27.8	-	49.1	-	-	74.0	-24.9	0-360	151	V

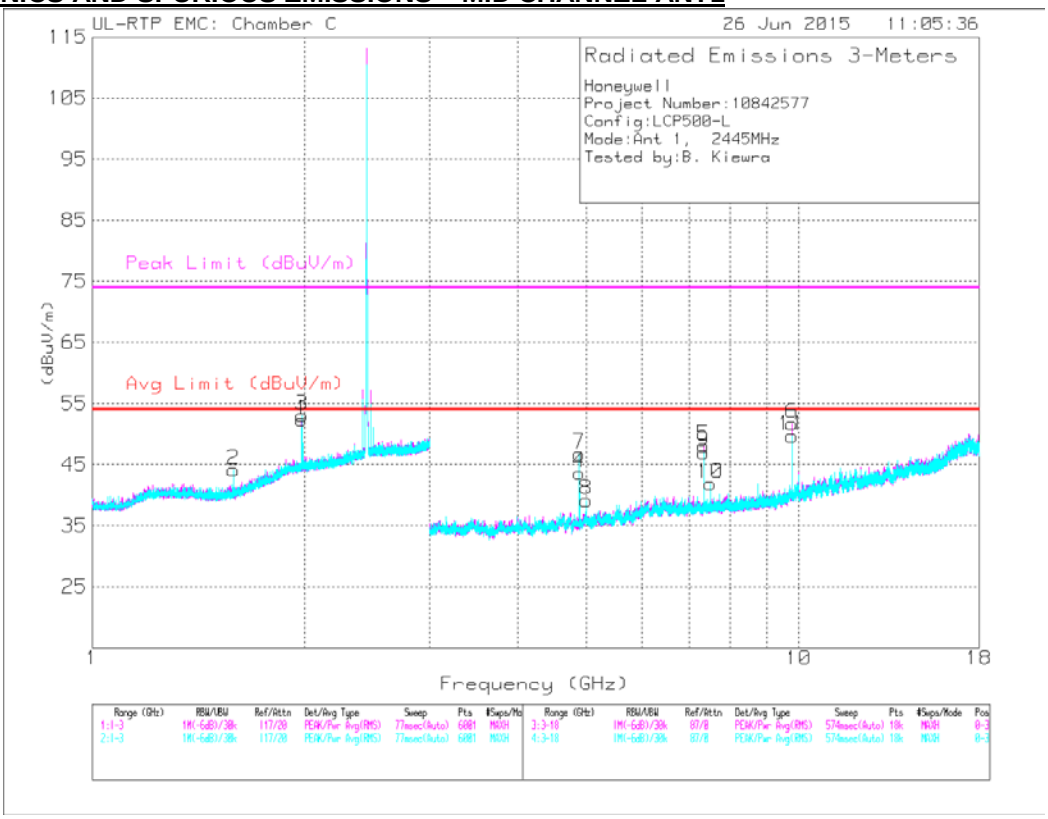
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 22.068	55.61	Pk	36.9	-45.8	46.71	-	-	74	-27.29	39	153	H
	* 22.069	44.07	Av	36.9	-45.8	35.17	54	-18.83	-	-	39	153	H
3	* 23.796	53.69	Pk	33.5	-45.7	41.49	54	-12.51	74	-32.51	0-360	175	H
5	* 22.157	52.81	Pk	36.5	-45.9	43.41	54	-10.59	74	-30.59	0-360	200	V
6	* 22.426	52.17	Pk	35.1	-45.9	41.37	54	-12.63	74	-32.63	0-360	225	V
1	21.617	52.92	Pk	35.8	-45.8	42.92	54	-11.08	74	-31.08	0-360	175	H
4	21.987	53.91	Pk	36.9	-45.8	45.01	54	-8.99	74	-28.99	0-360	151	V

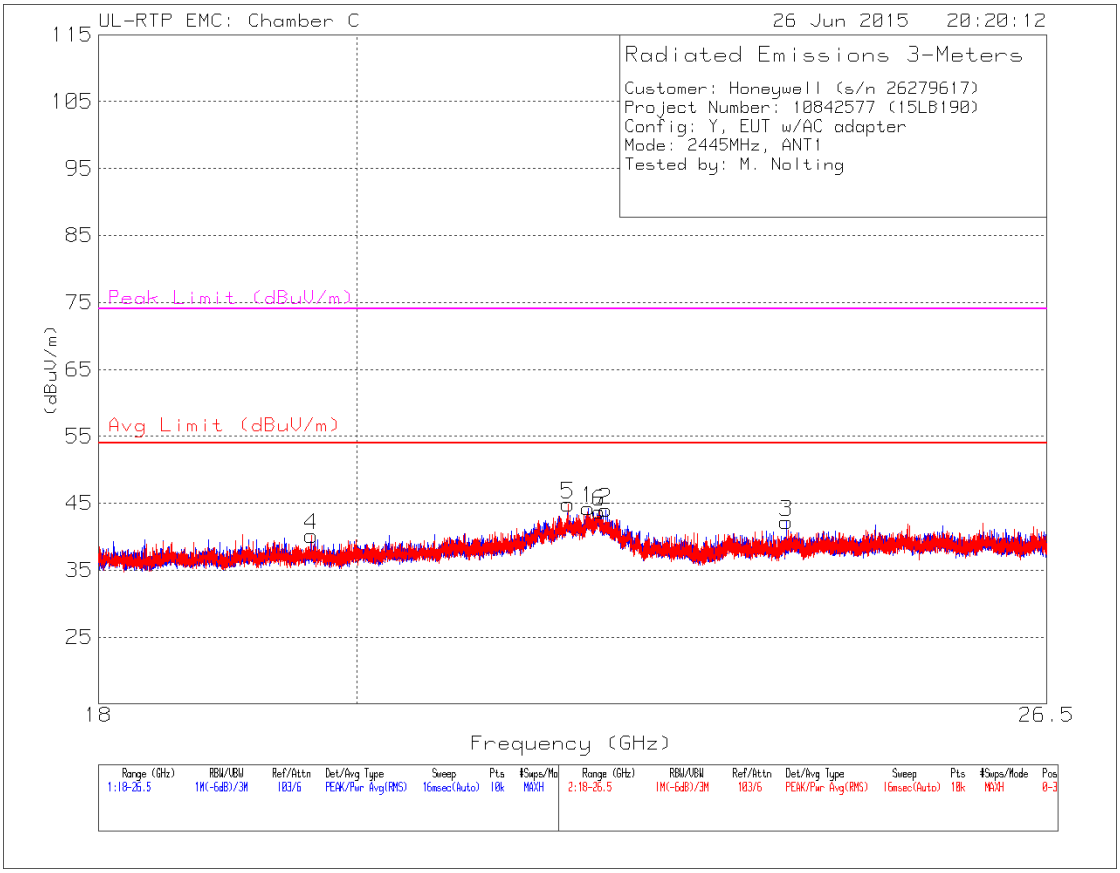
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Av - Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS – MID CHANNEL ANT1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.979	48.6	Pk	31.5	-27.8	-	52.3	-	-	74.0	-21.7	0-360	250	H
4	* 4.889	48.7	PK2	34.0	-33.0	-	49.7	-	-	74.0	-24.3	49	273	H
	* 4.891	48.7	AV	34.0	-33.0	-11.5	38.2	54.0	-15.8	-	-	49	273	H
5	* 7.334	47.7	PK2	35.7	-28.9	-	54.5	-	-	74.0	-19.5	164	159	H
	* 7.334	47.7	AV	35.7	-28.9	-11.5	43.0	54.0	-11.0	-	-	164	159	H
6	9.782	41.6	Pk	37.0	-26.9	-	51.7	-	-	74.0	-22.3	0-360	151	H
2	* 1.584	52.6	PK2	28.1	-28.6	-	52.1	-	-	74.0	-21.9	186	142	V
	* 1.584	42.1	MAv1	28.1	-28.6	-	41.6	54.0	-12.4	-	-	186	142	V
3	1.982	49.4	Pk	31.5	-27.8	-	53.1	-	-	74.0	-20.9	0-360	250	V
7	* 4.889	51.3	PK2	34.0	-33.0	-	52.3	-	-	74.0	-21.7	266	203	V
	* 4.891	51.3	AV	34.0	-33.0	-11.5	40.8	54.0	-13.2	-	-	266	203	V
8	* 5.000	44.9	PK2	34.1	-31.9	-	47.1	-	-	74.0	-26.9	237	177	V
	* 5.000	37.0	MAv1	34.1	-31.9	-	39.2	54.0	-14.8	-	-	237	177	V
9	* 7.334	46.0	PK2	35.7	-28.9	-	52.8	-	-	74.0	-21.2	155	160	V
	* 7.334	46.0	AV	35.7	-28.9	-11.5	41.3	54.0	-12.7	-	-	155	160	V
10	* 7.500	42.5	PK2	35.7	-28.7	-	49.5	-	-	74.0	-24.5	209	185	V
	* 7.500	33.7	MAv1	35.7	-28.7	-	40.7	54.0	-13.3	-	-	209	185	V
11	9.778	39.6	Pk	37.0	-26.9	-	49.7	-	-	74.0	-24.3	0-360	250	V

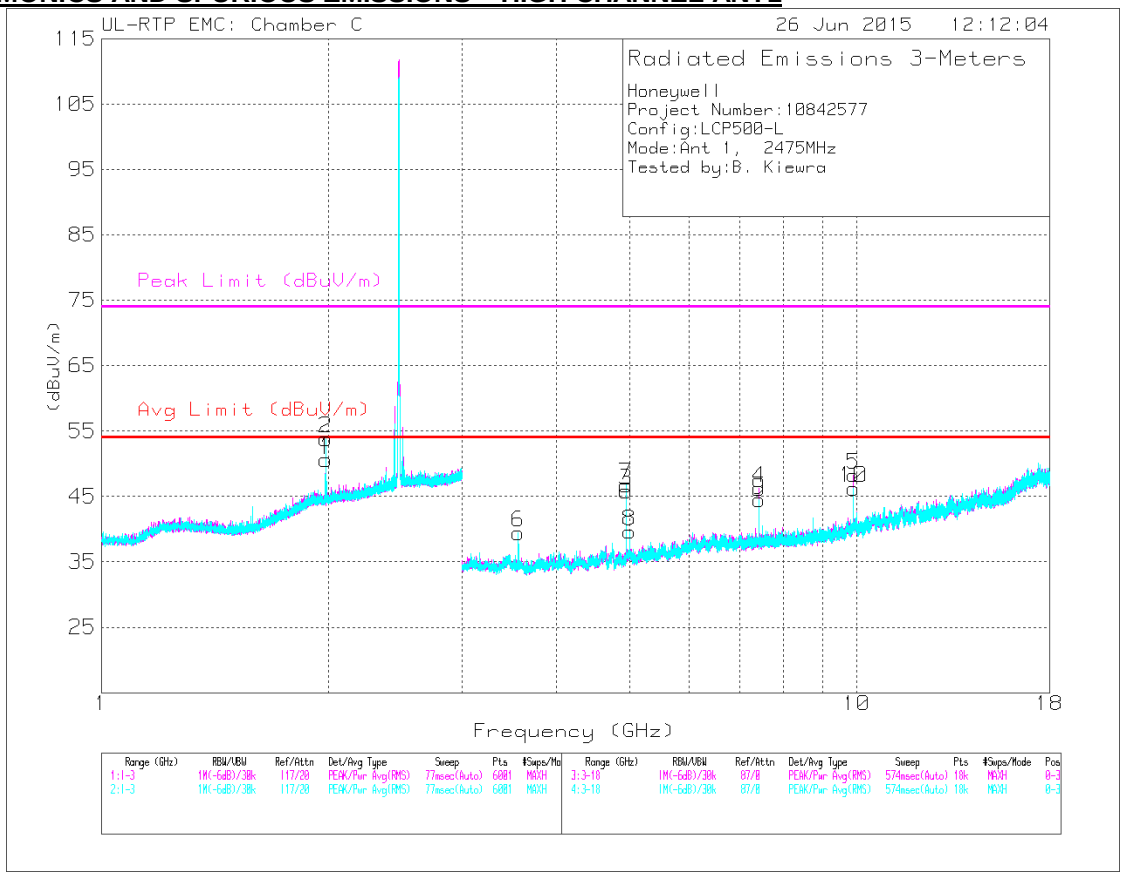
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 22.137	53.21	Pk	36.6	-45.8	44.01	54	-9.99	74	-29.99	0-360	175	H
3	* 23.83	54.33	Pk	33.6	-45.7	42.23	54	-11.77	74	-31.77	0-360	151	H
4	* 19.634	53.88	Pk	32.6	-46.3	40.18	54	-13.82	74	-33.82	0-360	225	V
6	* 22.08	52.75	Pk	36.8	-45.8	43.75	54	-10.25	74	-30.25	0-360	200	V
5	21.802	54.25	Pk	36.4	-45.8	44.85	54	-9.15	74	-29.15	0-360	175	V
1	21.979	53.16	Pk	36.9	-45.8	44.26	54	-9.74	74	-29.74	0-360	175	H

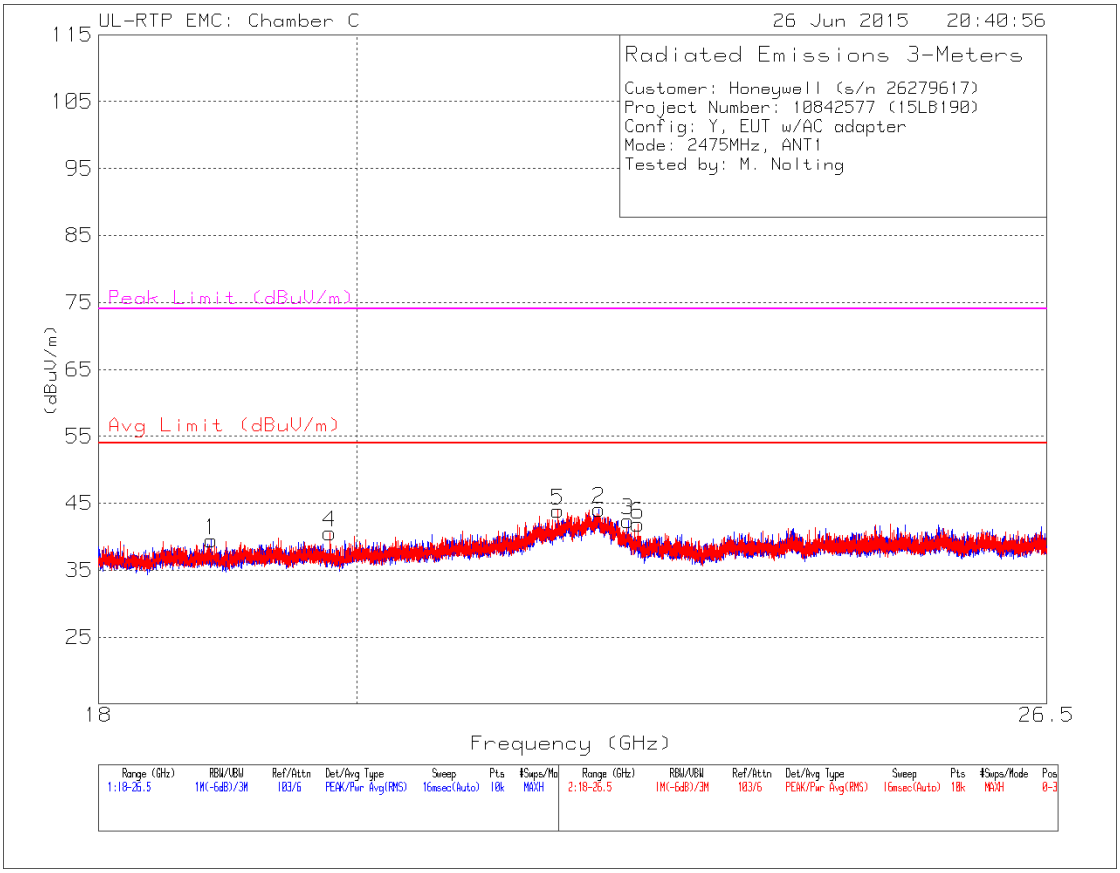
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS – HIGH CHANNEL ANT1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fltr/Pad	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.980	46.9	Pk	31.5	-27.8	-	50.6	-	-	74.0	-23.4	0-360	150	H
3	* 4.951	50.7	PK2	34.1	-32.8	-	52.0	-	-	74.0	-22.0	44	291	H
	* 4.949	50.7	AV	34.1	-32.8	-11.5	40.5	54.0	-13.5	-	-	44	291	H
4	* 7.427	45.6	PK2	35.7	-28.6	-	52.7	-	-	74.0	-21.3	167	209	H
	* 7.424	45.6	AV	35.7	-28.6	-11.5	41.2	54.0	-12.8	-	-	167	209	H
5	9.902	37.5	Pk	37.1	-26.3	-	48.3	-	-	74.0	-25.7	0-360	151	H
2	1.980	50.1	Pk	31.5	-27.8	-	53.8	-	-	74.0	-20.2	0-360	151	V
6	* 3.564	52.2	PK2	33.0	-34.4	-	50.8	-	-	74.0	-23.2	145	243	V
	* 3.564	34.6	MAv1	33.0	-34.4	-	33.2	54.0	-20.8	-	-	145	243	V
7	* 4.949	50.9	PK2	34.1	-32.8	-	52.2	-	-	74.0	-21.8	248	236	V
	* 4.951	50.9	AV	34.1	-32.8	-11.5	40.7	54.0	-13.3	-	-	248	236	V
8	* 5.000	45.1	PK2	34.1	-31.9	-	47.3	-	-	74.0	-26.7	238	169	V
	* 5.000	36.7	MAv1	34.1	-31.9	-	38.9	54.0	-15.1	-	-	238	169	V
9	* 7.427	44.4	PK2	35.7	-28.6	-	51.5	-	-	74.0	-22.5	5	144	V
	* 7.427	44.4	AV	35.7	-28.6	-11.5	40.0	54.0	-14.0	-	-	5	144	V
10	9.898	35.4	Pk	37.1	-26.3	-	46.2	-	-	74.0	-27.8	0-360	151	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
AV – Average measurement calculated using AV = PK + 20Log(DC). Where DC = 0.266.

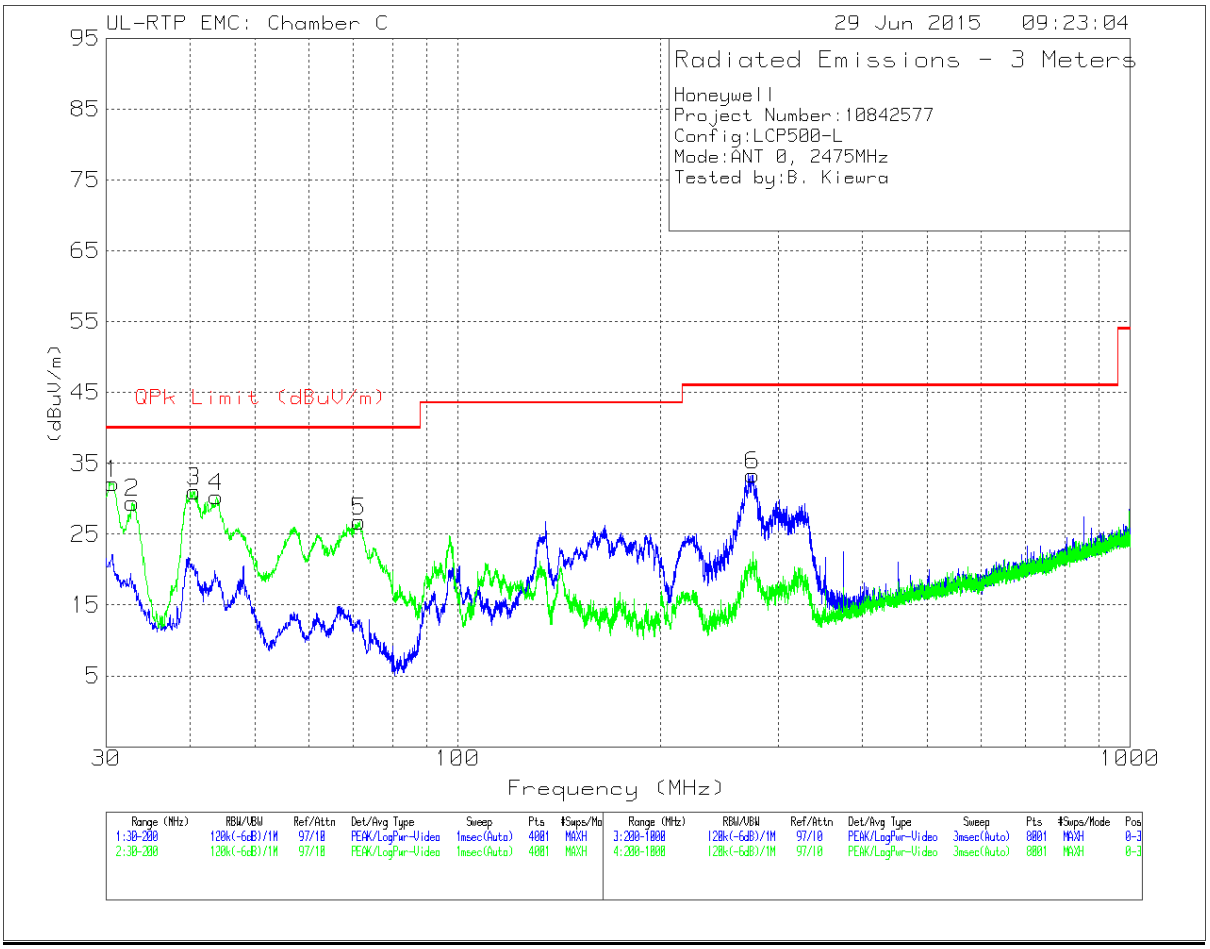


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.847	53.29	Pk	32.4	-46.2	39.49	54	-14.51	74	-34.51	0-360	200	H
2	* 22.077	55.25	Pk	36.8	-45.8	46.25	-	-	74	-27.75	11	152	H
	* 22.072	44.07	Av	36.9	-45.8	35.17	54	-18.83	-	-	11	152	H
3	* 22.341	52.8	Pk	35.5	-45.9	42.4	54	-11.6	74	-31.6	0-360	225	H
4	* 19.781	54.31	Pk	32.6	-46.3	40.61	54	-13.39	74	-33.39	0-360	151	V
6	* 22.431	52.77	Pk	35	-45.9	41.87	54	-12.13	74	-32.13	0-360	225	V
5	21.71	53.52	Pk	36.2	-45.8	43.92	54	-10.08	74	-30.08	0-360	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Av - Maximum RMS Average

8.3. WORST-CASE BELOW 1 GHz

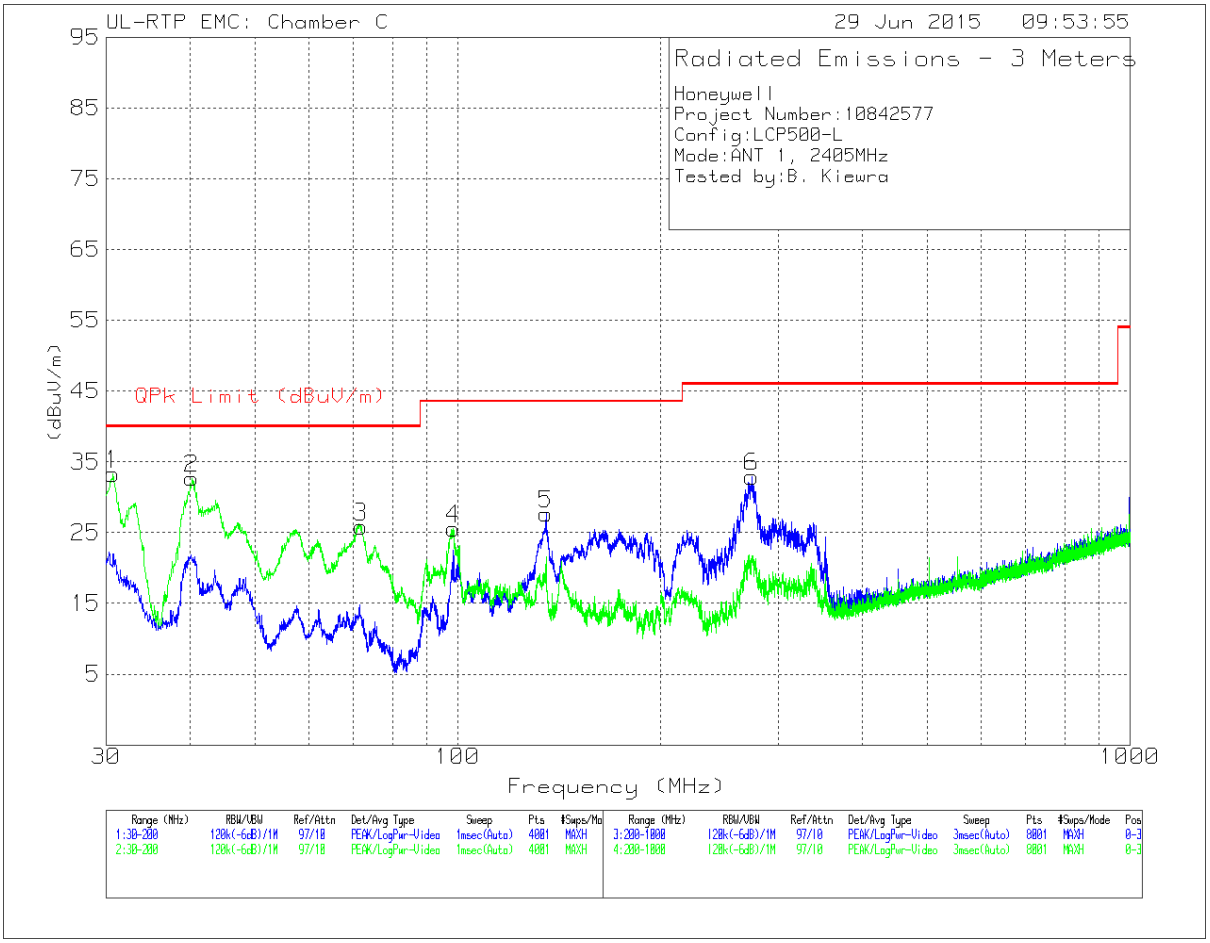
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, ANT0)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 274.520	47.5	Qp	13.4	-29.9	31.0	46.02	-15.1	188	108	H
1	30.680	42.5	Pk	21.3	-31.6	32.2	40.0	-7.8	0-360	100	V
2	32.805	41.3	Pk	19.7	-31.6	29.4	40.0	-10.6	0-360	100	V
3	40.583	48.5	Pk	14.0	-31.5	31.0	40.0	-9.0	0-360	100	V
4	43.770	50.1	Pk	11.6	-31.4	30.3	40.0	-9.7	0-360	100	V
5	71.416	49.6	Pk	8.3	-31.1	26.8	40.0	-13.2	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, ANT1)



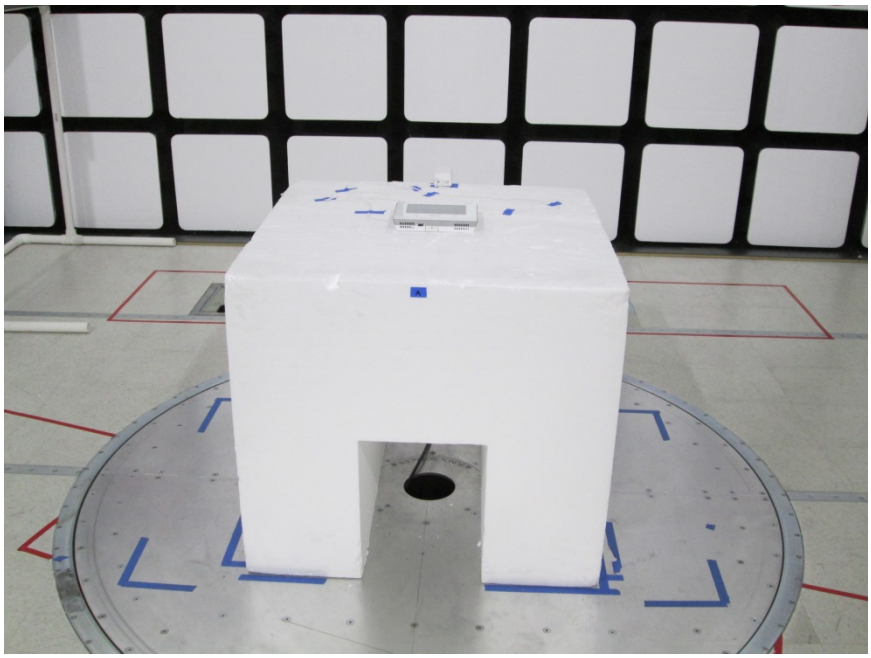
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 135.498	38.2	Qp	13.6	-30.6	21.2	43.5	-22.3	19	196	H
6	* 274.844	45.9	Qp	13.4	-29.9	29.4	46.0	-16.6	182	106	H
1	30.680	43.6	Pk	21.3	-31.6	33.3	40.0	-6.7	0-360	100	V
2	40.243	49.9	Pk	14.3	-31.5	32.7	40.0	-7.3	0-360	100	V
3	71.841	48.7	Pk	8.2	-31.1	25.8	40.0	-14.2	0-360	100	V
4	98.553	46.6	Pk	9.9	-31.0	25.5	43.5	-18.0	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
Qp - Quasi-Peak detector

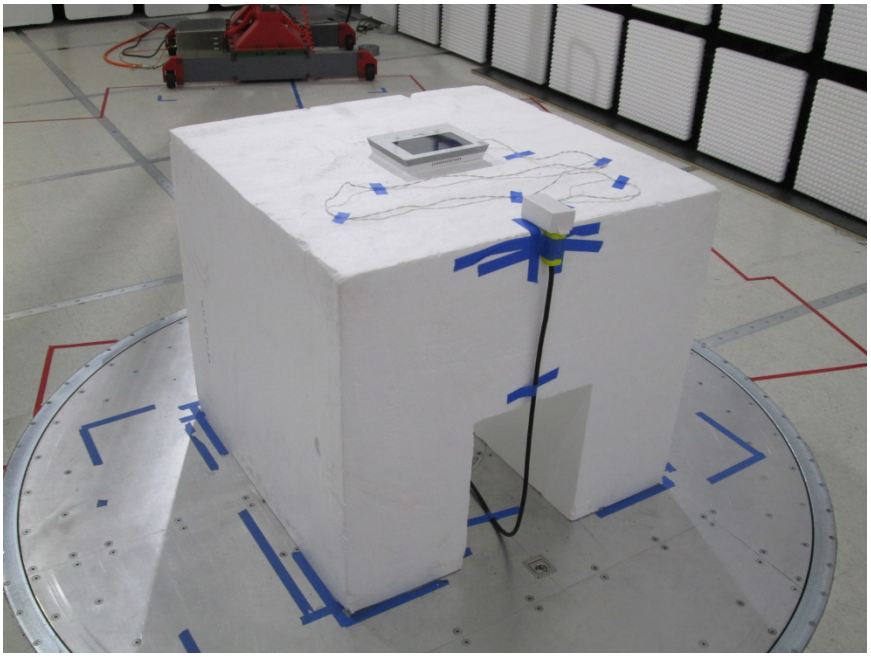
9. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP (BELOW 1 GHz

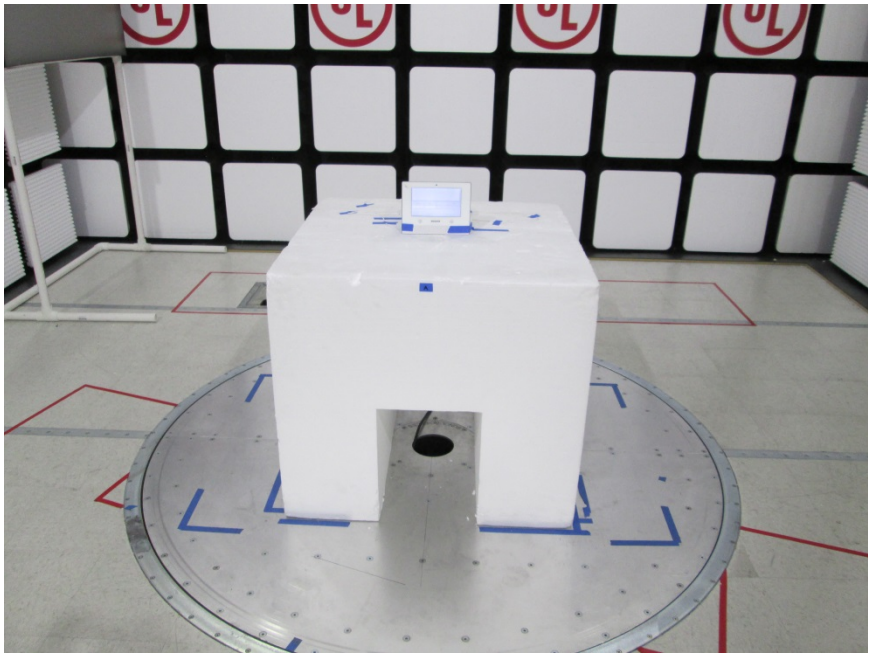
RADIATED FRONT PHOTO (BELOW 1 GHz) ANT0



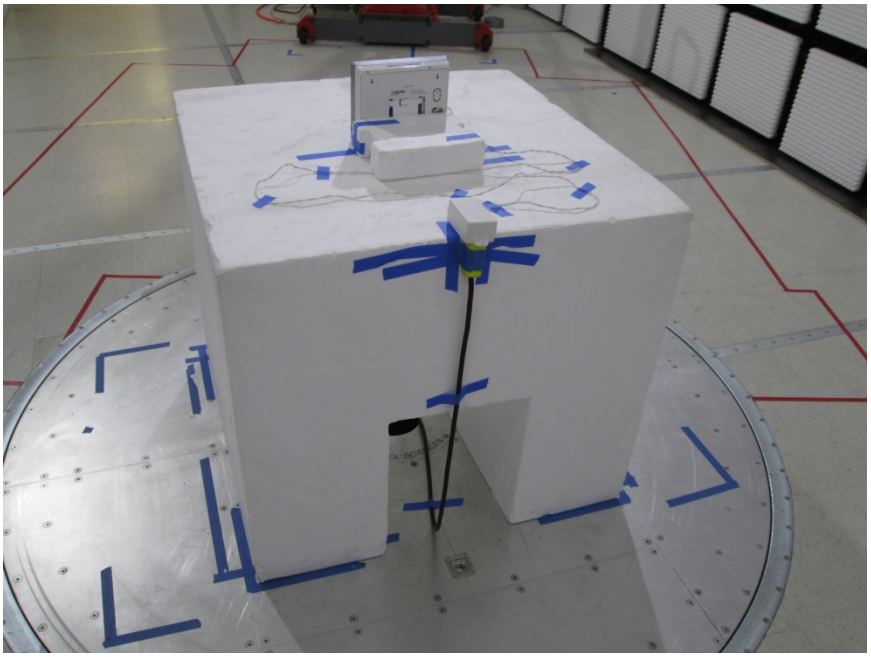
RADIATED BACK PHOTO (BELOW 1 GHz)ANT0



RADIATED FRONT PHOTO (BELOW 1 GHz) ANT1

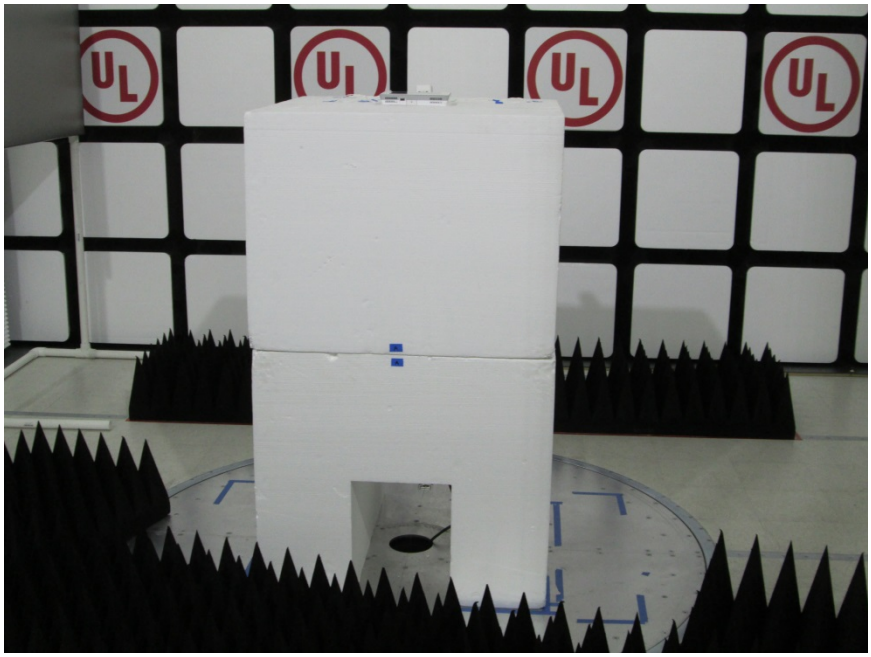


RADIATED BACK PHOTO (BELOW 1 GHz) ANT1

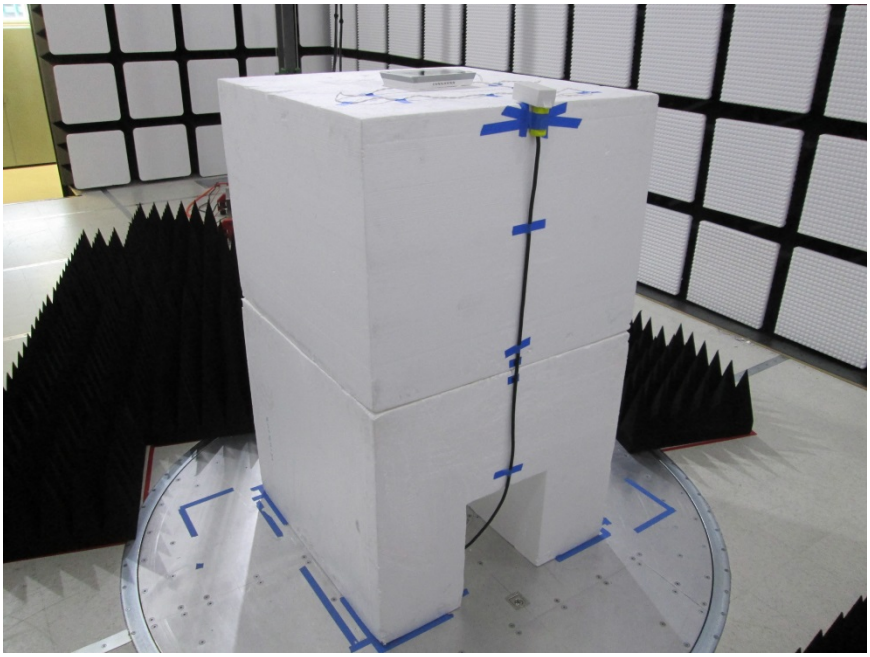


RADIATED RF MEASUREMENT SETUP (ABOVE 1 GHz)

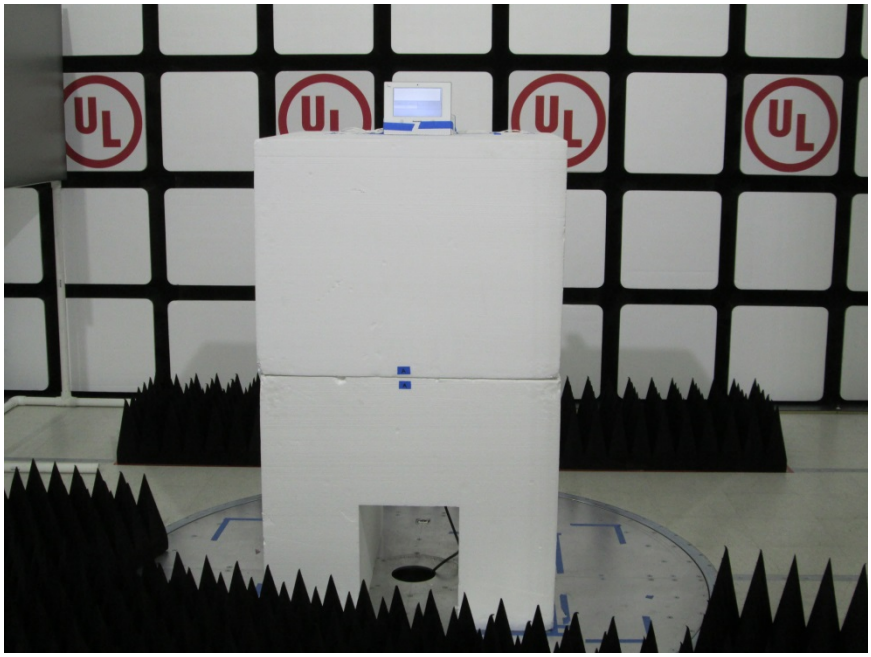
RADIATED FRONT PHOTO (ABOVE 1 GHz) ANT0



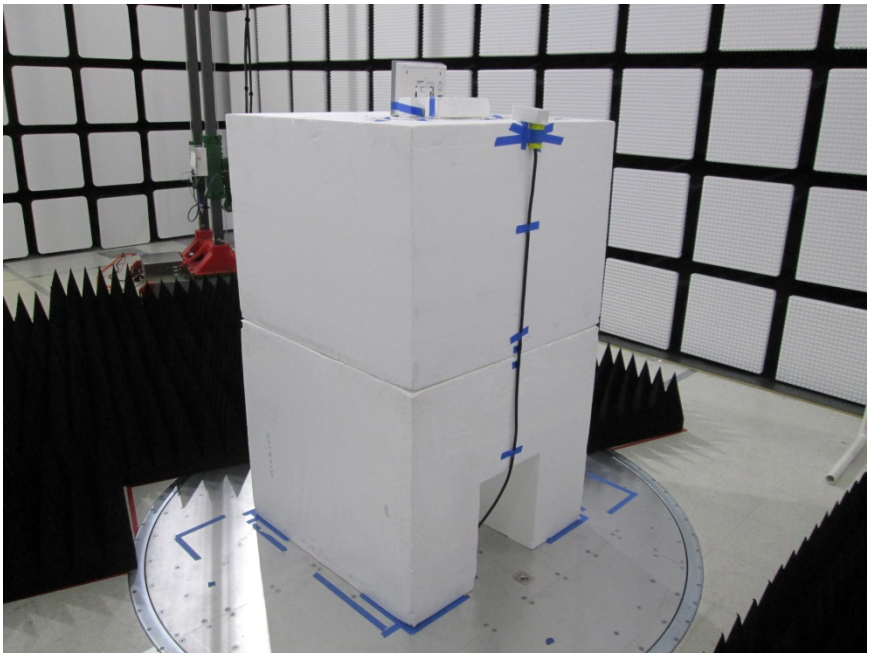
RADIATED BACK PHOTO (ABOVE 1 GHz) ANT0



RADIATED FRONT PHOTO (ABOVE 1 GHz) ANT1

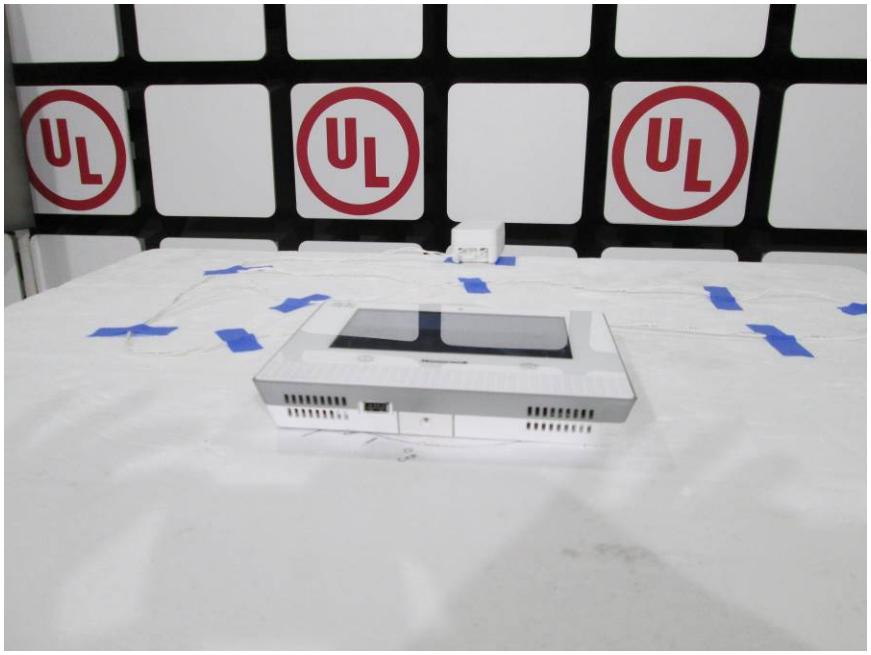


RADIATED BACK PHOTO (ABOVE 1 GHz) ANT1

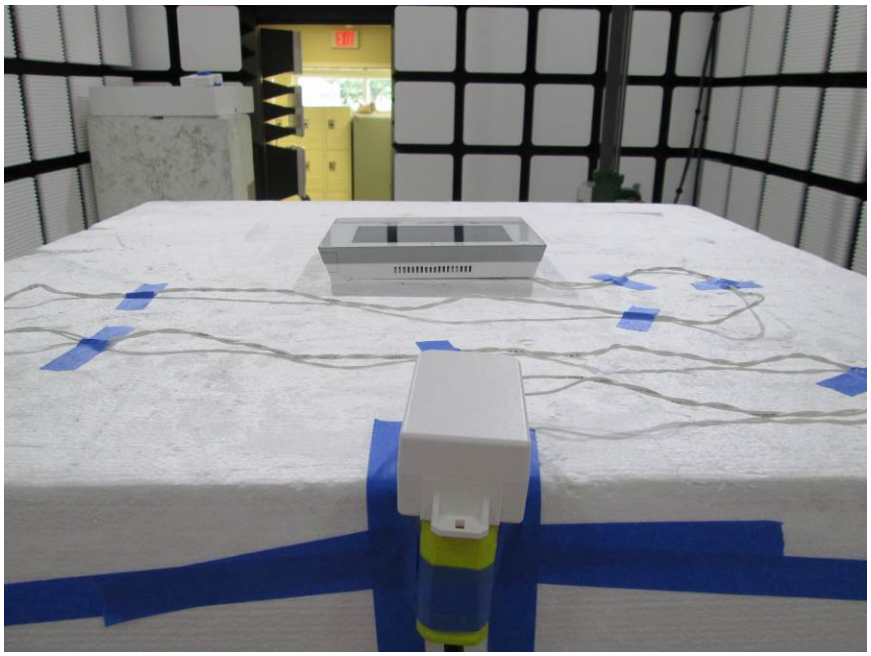


RADIATED RF MEASUREMENT SETUP FOR PORTABLE CONFIGURATION

X-AXIS FRONT PHOTO

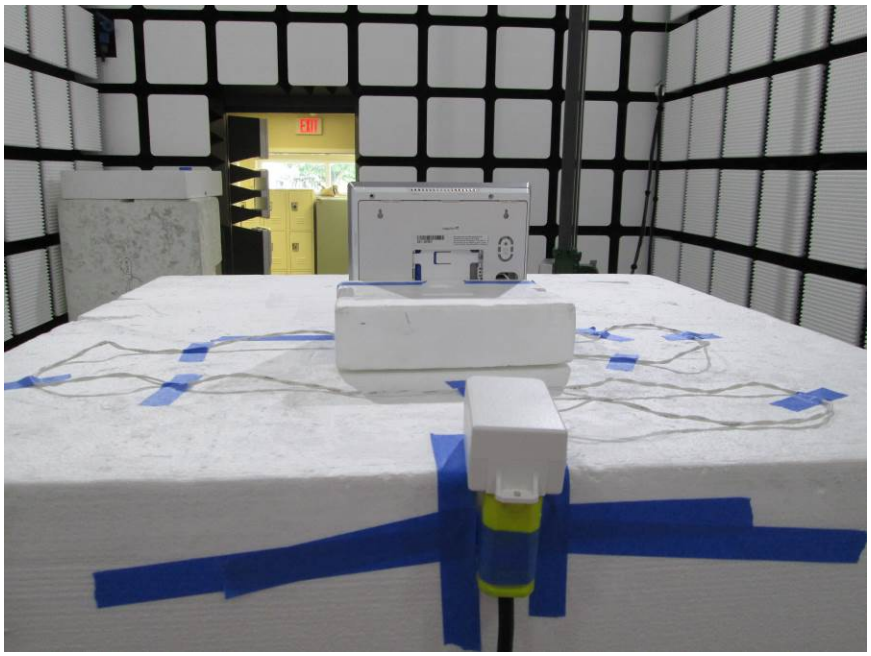


X-AXIS BACK PHOTO

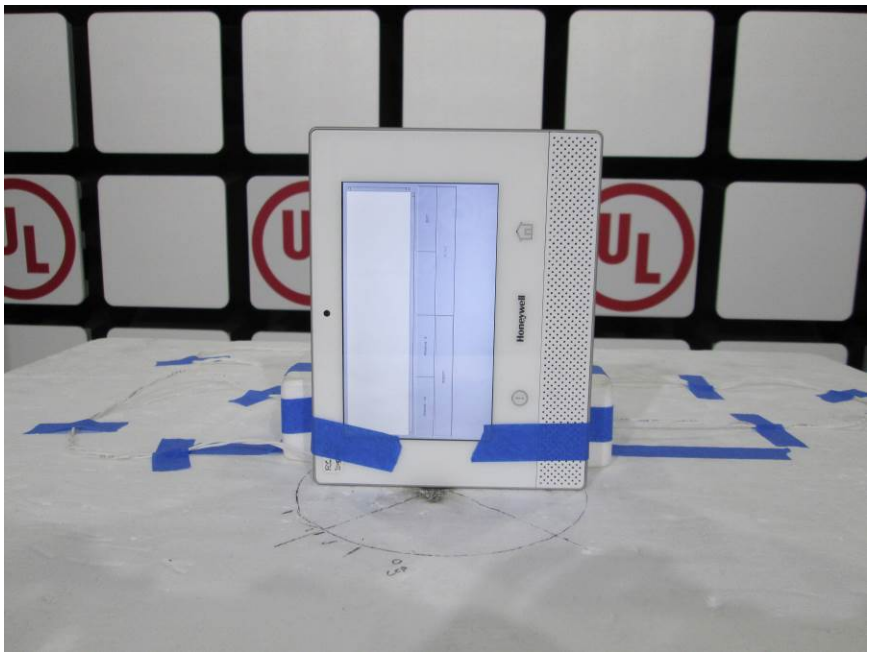


Y-AXIS FRONT PHOTO

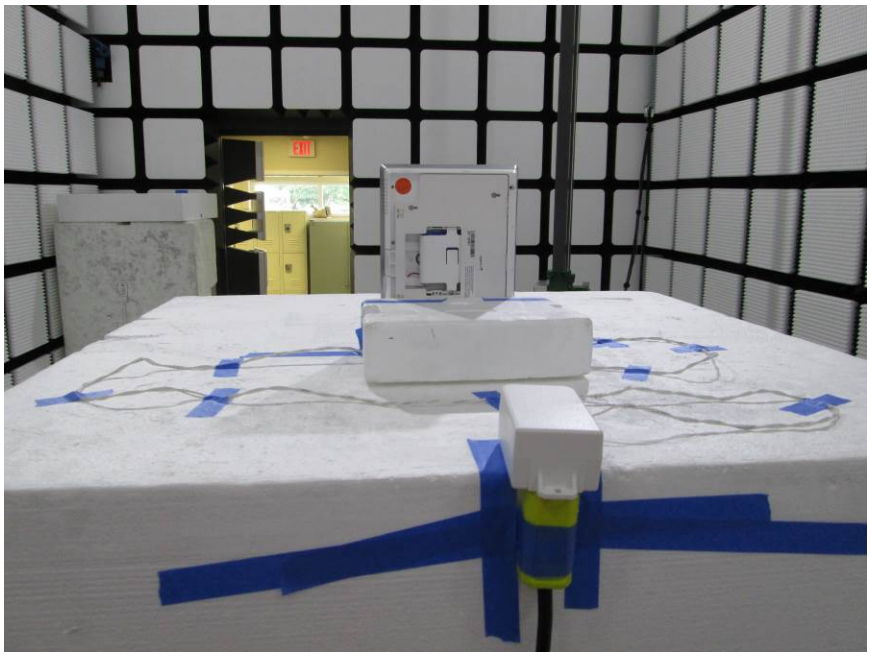
Y-AXIS BACK PHOTO



Z-AXIS FRONT PHOTO



Z-AXIS BACK PHOTO



END OF REPORT