



FCC 47 CFR PART 15 SUBPART C
MANUFACTURER'S TEST REPORT
FOR
WIRELESS KEYPAD
MODEL NUMBER: LKP500

FCC ID: CFS8DLLKP500
REPORT NUMBER: R10806473-E1A
ISSUE DATE: 2015-10-12

Prepared for
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Revision History

Rev.	Issue Date	Revisions	Revised By
--	2015-06-23	Initial Issue	Jeff Moser
1	2015-06-25	Revised Duty Cycle statement regarding documentation on page 11.	Jeff Moser
2	2015-10-12	Added QP data for 240 MHz measurement, pg. 35.	Jeff Moser

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1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: WIRELESS KEYPAD

MODEL: LKP500

SERIAL NUMBER: LM15 (Unit #1)

DATE TESTED: June 03-09, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C (Radiated emissions only)	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:

Prepared By:



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2. TEST METHODOLOGY

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://ts.nist.gov/standards/scopes/2002460.htm>.

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:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

Test	Uncertainty
Radiated Emissions (30-1000 MHz)	+/- 6.04 dB (3m)
Radiated Emissions (1-6 GHz)	+/- 5.96 dB
Radiated Emissions (6-18 GHz)	+/- 6.10 dB
Radiated Emissions (18-26 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 keypad used in security systems. The device contains an 802.15.4 Zigbee transceiver.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a printed PCB F antenna and a printed PCB T antenna, connected one at a time, with a maximum gain of 3.6dBi each.

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 500-02374, rev. A..

The test utility software used during testing was RF6KP_JN5168.bin, rev. 0.5.8.

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 ANT1 and the Y orientation the worst-case for ANT2. Therefore, all final radiated testing was performed with the EUT in X orientation for ANT1 and the Y orientation for ANT2.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

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

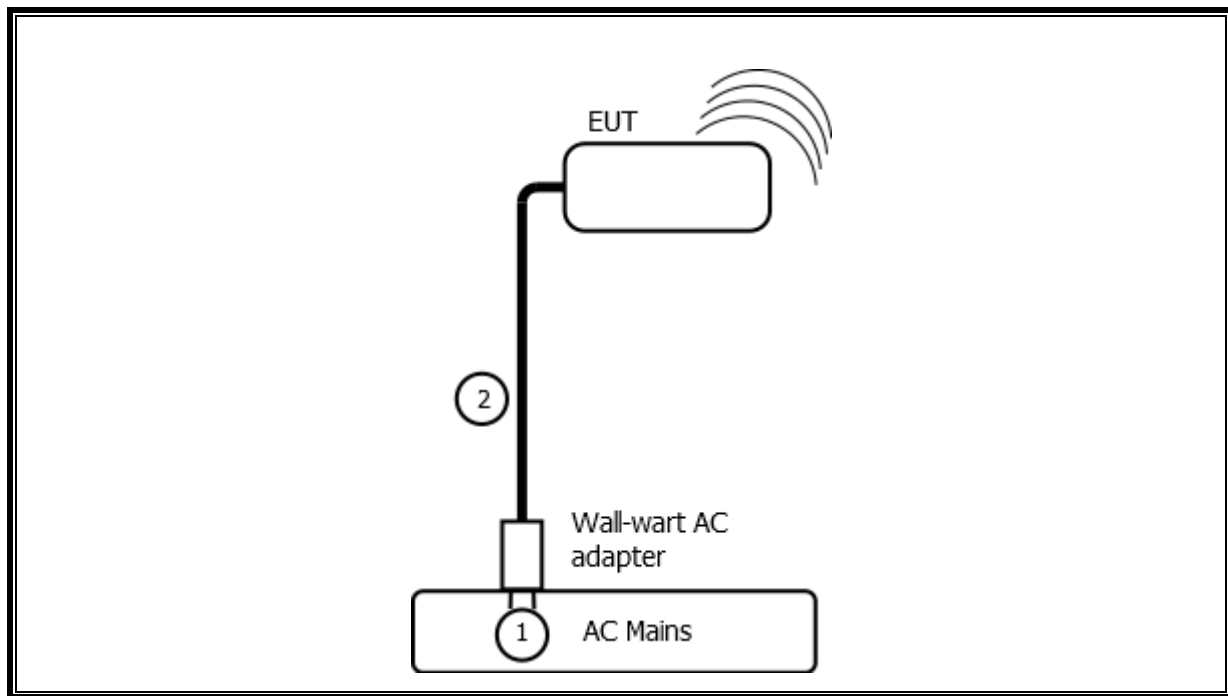
I/O CABLES

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 card.

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 Hybrid 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	2015-06-27

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 6.976%. 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:

$$\text{Average Value [dBuV/m]} = \text{Peak Value [dBuV/m]} + 20 \cdot \log(\text{DC}/100)$$

$$\text{Average Value [dBuV/m]} = \text{Peak Value [dBuV/m]} + 20 \cdot \log(6.976/100)$$

$$\text{Average Value [dBuV/m]} = \text{Peak Value [dBuV/m]} - 23.1\text{dB}$$

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.

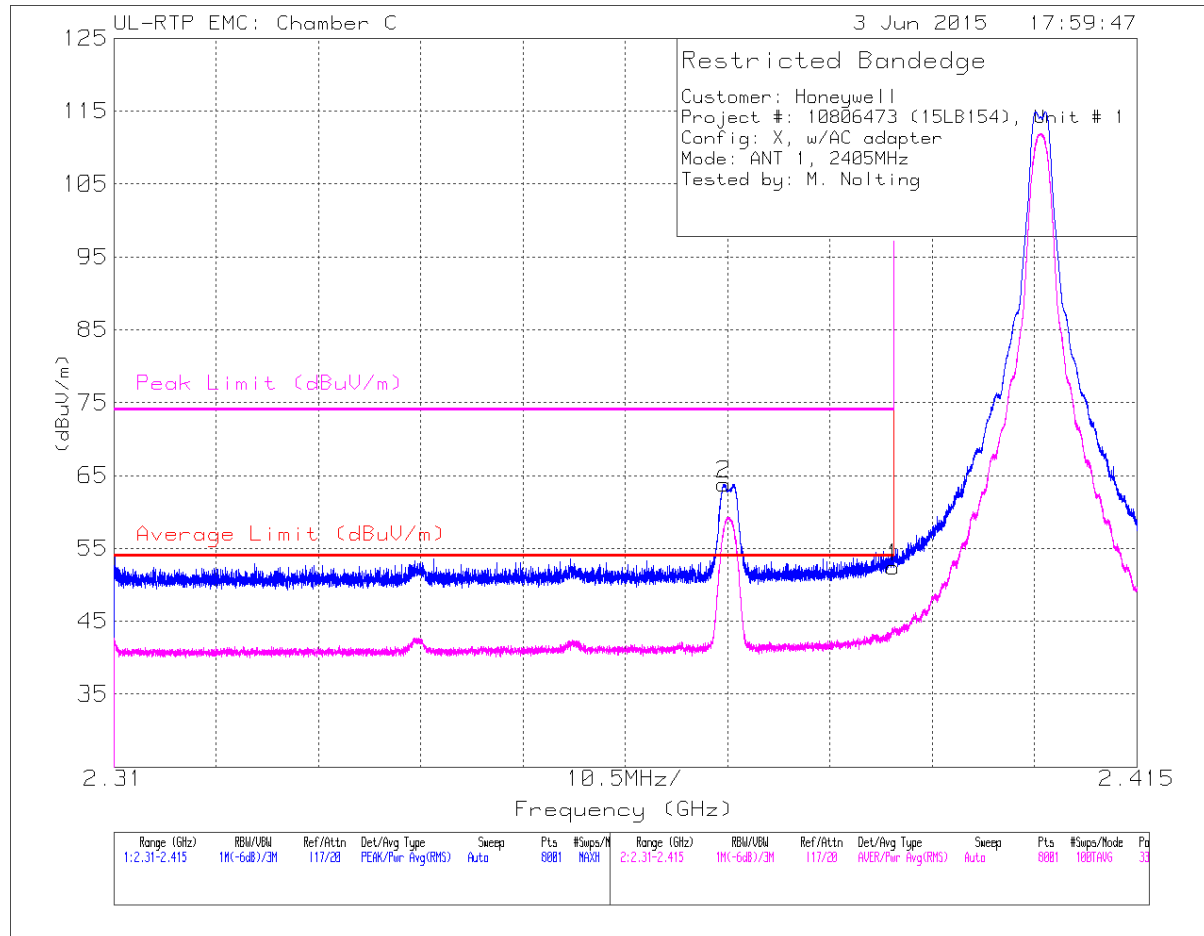
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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) – ANT1



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

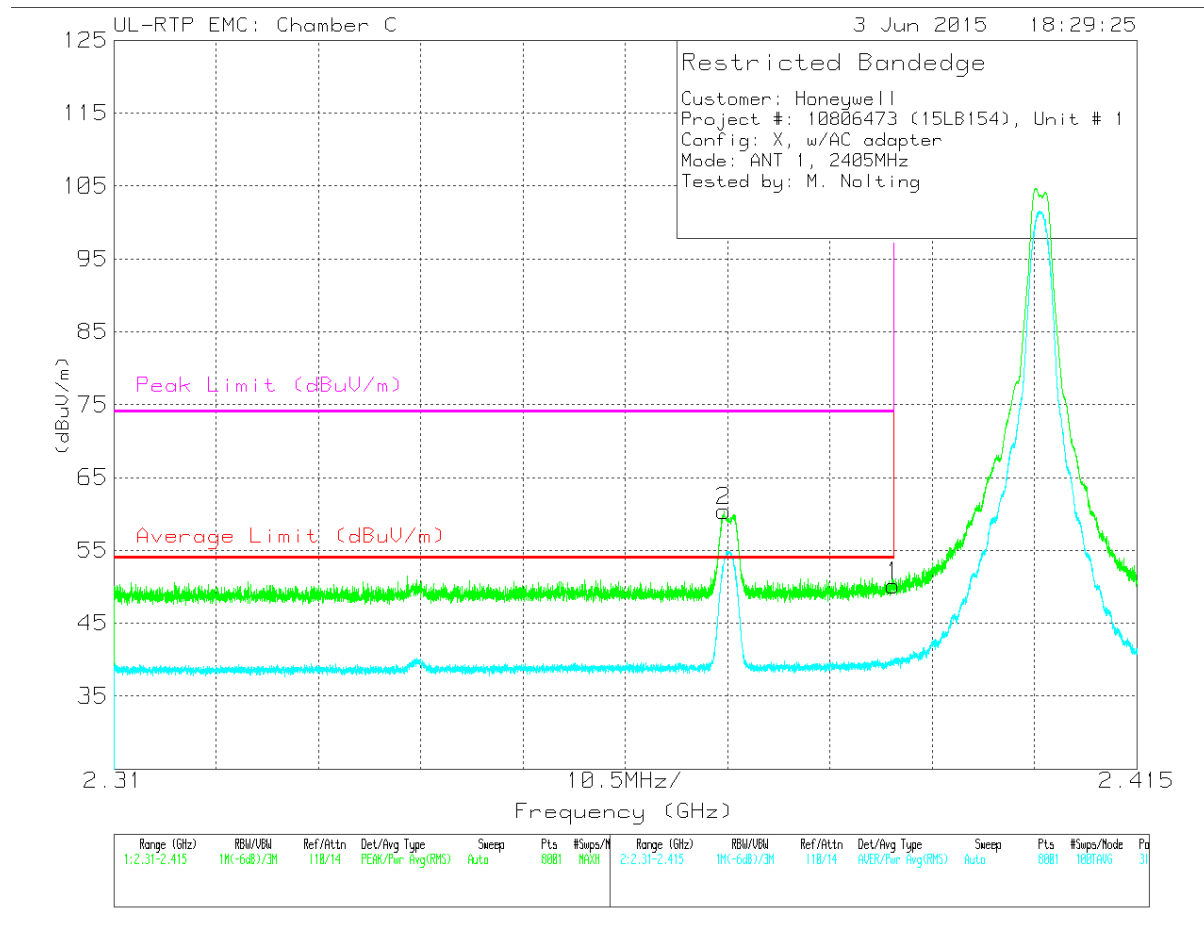
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/ Filt/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47.02	Pk	32.1	-26.7	0	52.42	-	-	74	-21.58	335	102	H
	* 2.39	47.02	AV	32.1	-26.7	-23.1	29.32	54	-24.68	-	-	335	102	H
2	* 2.373	58.52	Pk	32	-26.7	0	63.82	-	-	74	-10.18	335	102	H
	* 2.373	58.52	AV	32	-26.7	-23.1	40.72	54	-13.28	-	-	335	102	H

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL) – ANT1



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

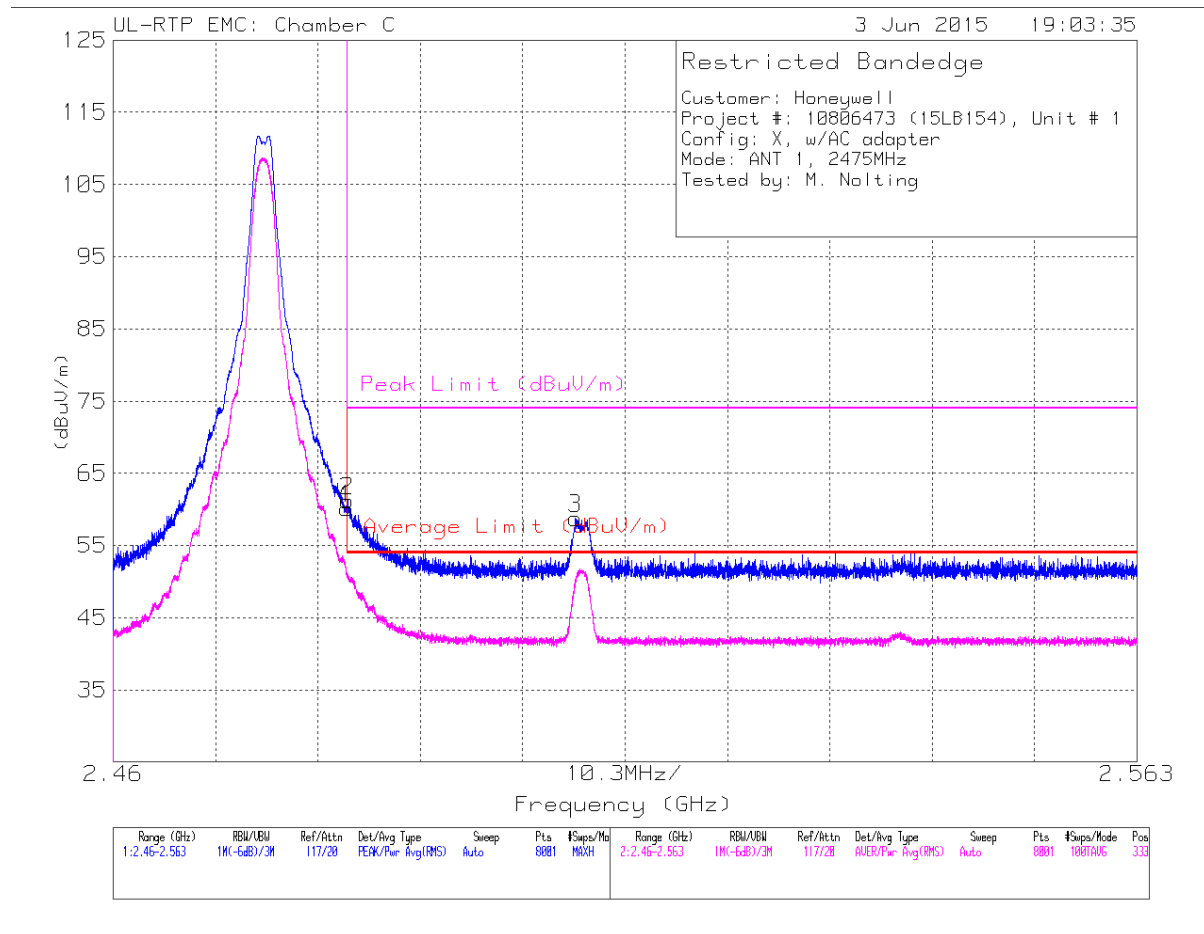
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/ Filt/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.74	Pk	32.1	-26.7	0	50.14	-	-	74	-23.86	315	396	V
	* 2.39	44.74	AV	32.1	-26.7	-23.1	27.04	54	-26.96	-	-	315	396	V
2	* 2.373	55.1	Pk	32	-26.7	0	60.4	-	-	74	-13.6	315	396	V
	* 2.373	55.1	AV	32	-26.7	-23.1	37.3	54	-16.7	-	-	315	396	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL) – ANT1



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

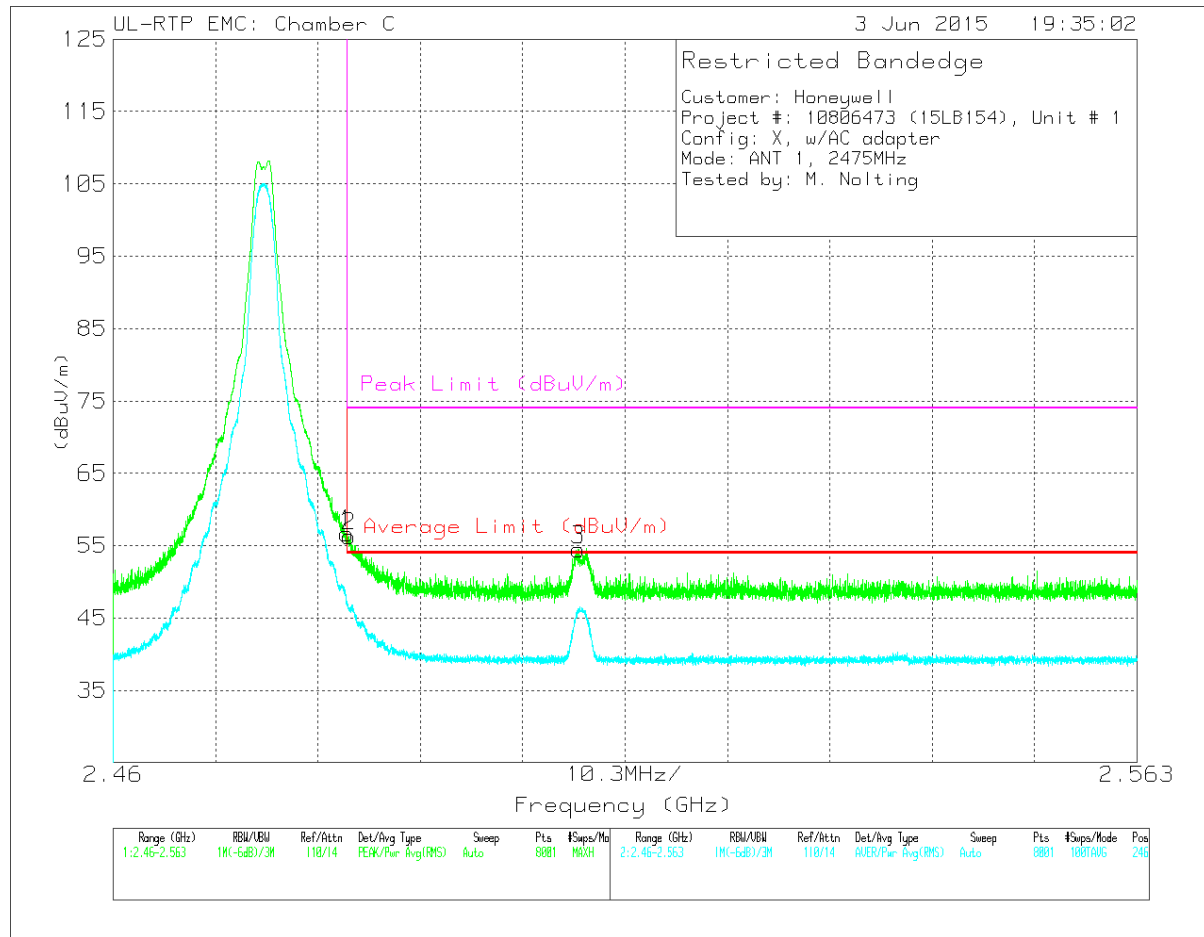
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.34	Pk	32.3	-26.5	0	60.14	-	-	74	-13.86	333	101	H
	* 2.484	54.34	AV	32.3	-26.5	-23.1	37.04	54	-16.96	-	-	333	101	H
2	* 2.484	55.41	Pk	32.3	-26.5	0	61.21	-	-	74	-12.79	333	101	H
	* 2.484	55.41	AV	32.3	-26.5	-23.1	38.11	54	-15.89	-	-	333	101	H
3	2.507	52.75	Pk	32.4	-26.4	0	58.75	-	-	74	-15.25	333	101	H

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) – ANT1



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

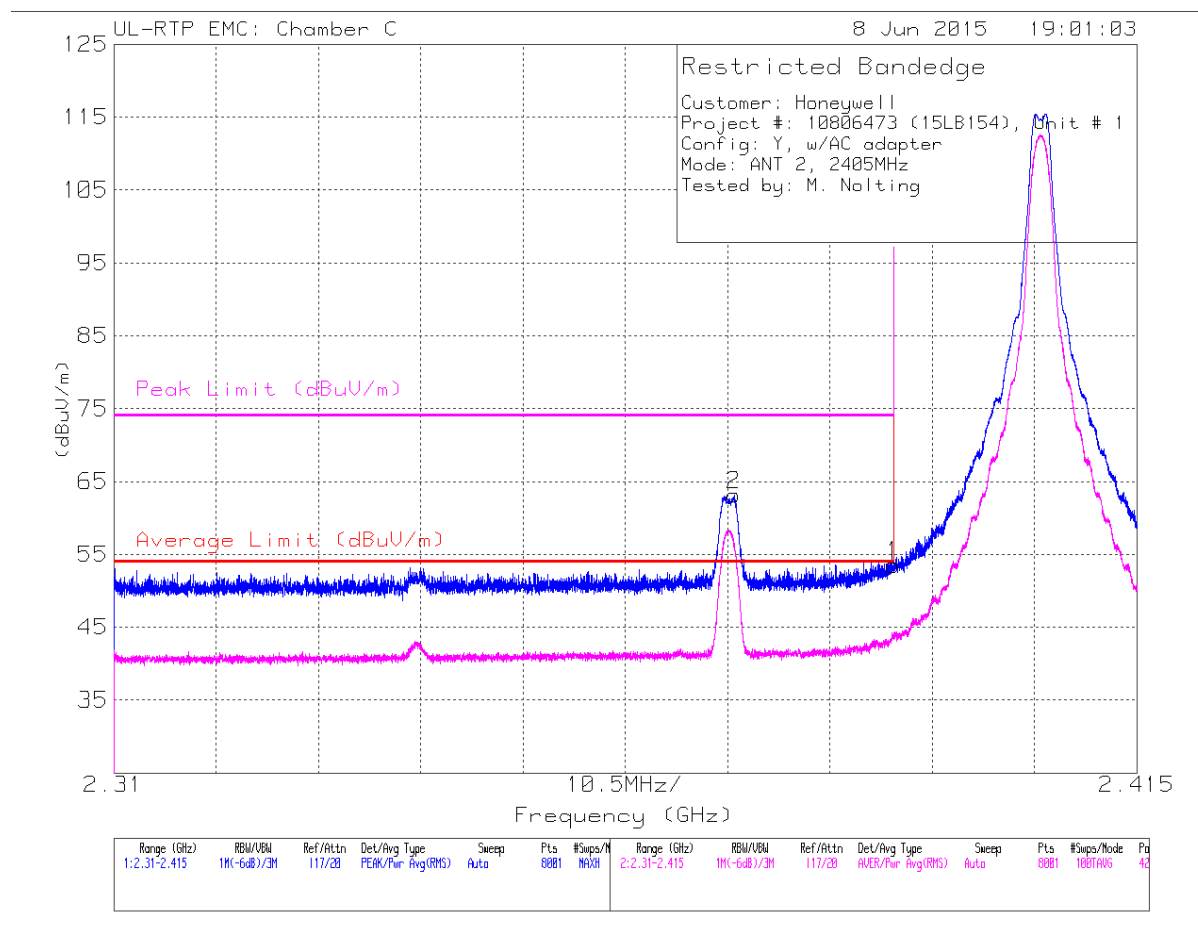
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.9	Pk	32.3	-26.5	0	56.7	-	-	74	-17.3	246	398	V
	* 2.484	50.9	AV	32.3	-26.5	-23.1	33.6	54	-20.4	-	-	246	398	V
2	* 2.484	50.53	Pk	32.3	-26.5	0	56.33	-	-	74	-17.67	246	398	V
	* 2.484	50.53	AV	32.3	-26.5	-23.1	33.23	54	-20.77	-	-	246	398	V
3	2.507	48.45	Pk	32.4	-26.4	0	54.45	-	-	74	-19.55	246	398	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL) – ANT2



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

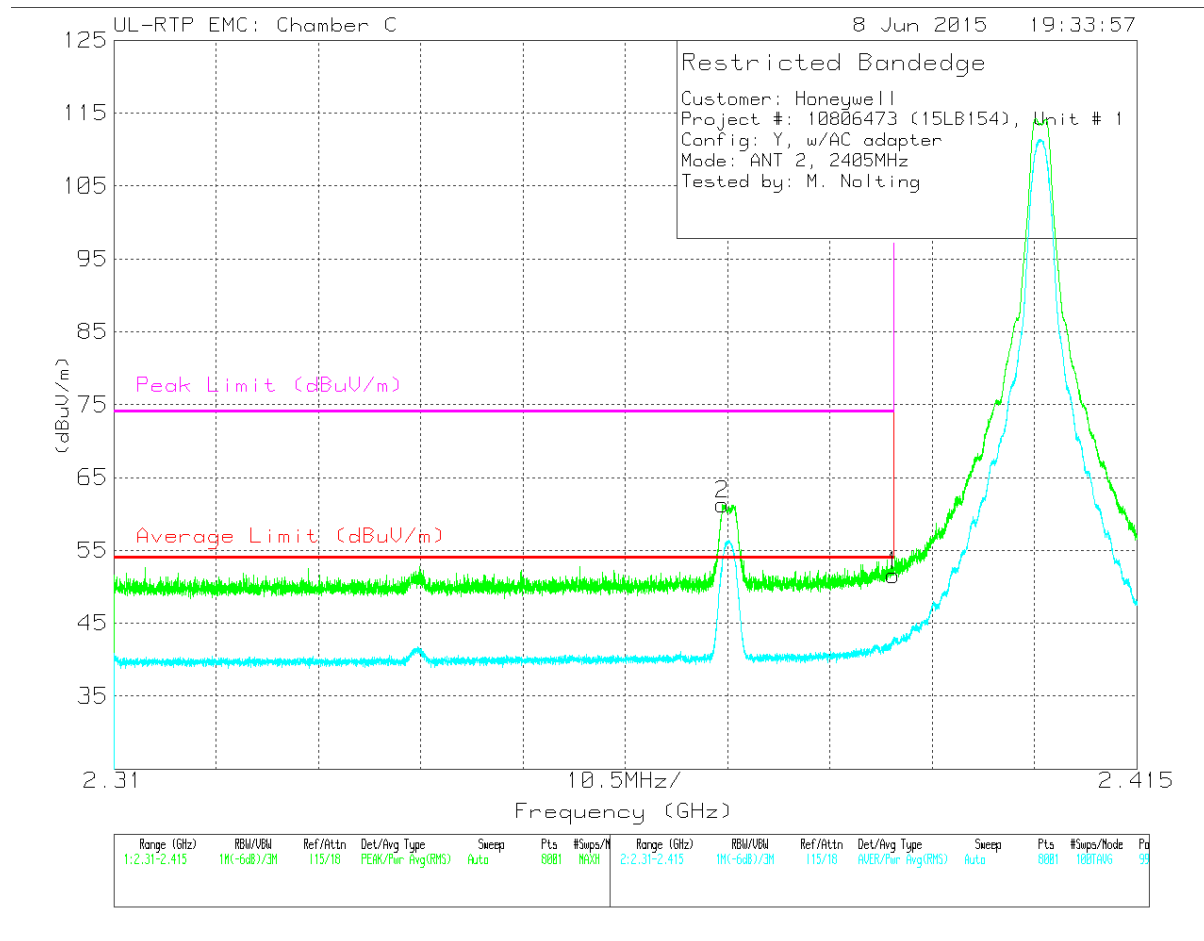
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.12	Pk	32.1	-26.7	0	53.52	-	-	74	-20.48	42	169	H
	* 2.39	48.12	AV	32.1	-26.7	-23.1	30.42	54	-23.58	-	-	-	169	H
2	* 2.374	57.87	Pk	32	-26.7	0	63.17	-	-	74	-10.83	42	169	H
	* 2.374	57.87	AV	32	-26.7	-23.1	40.07	54	-13.93	-	-	-	169	H

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL) – ANT2



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

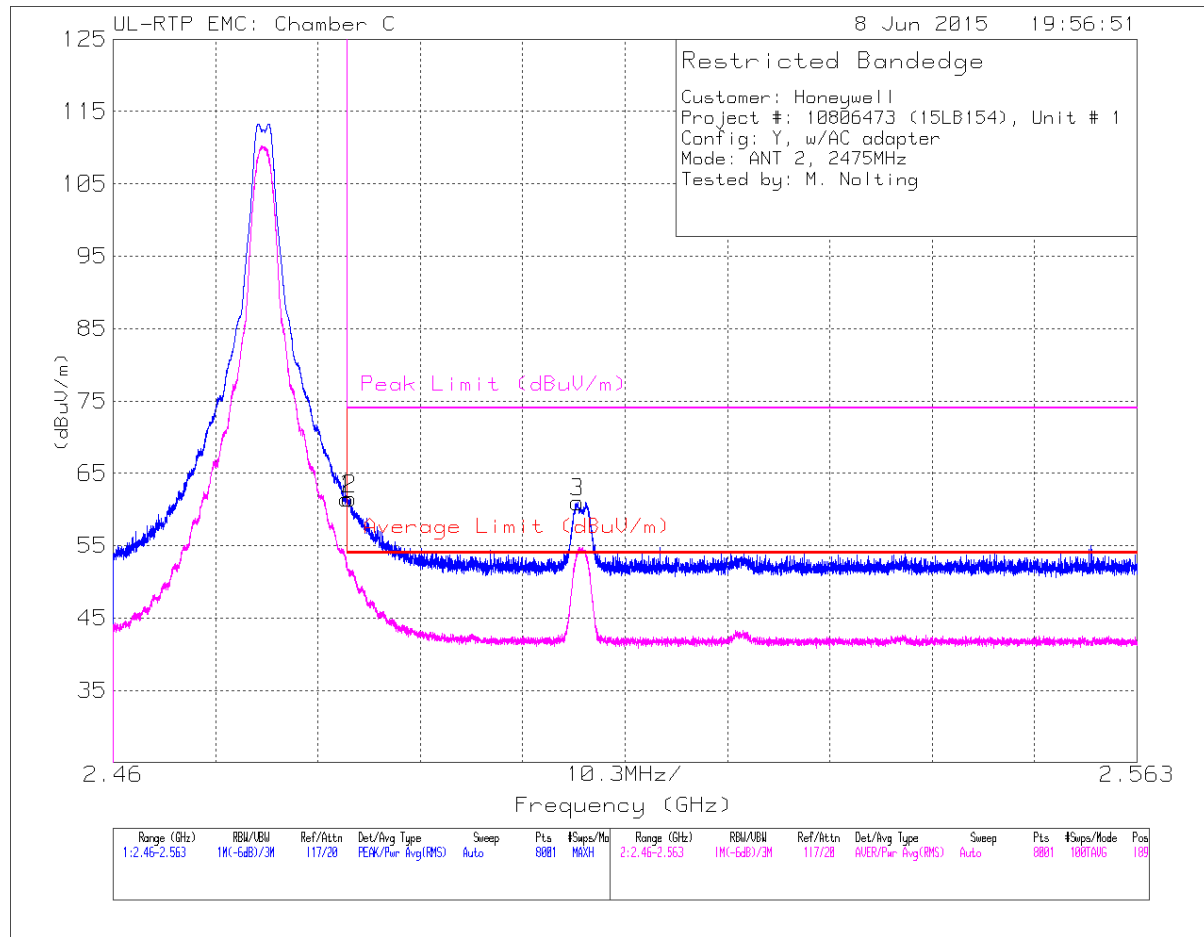
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad		Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.18	Pk	32.1	-26.7	0	51.58	-	-	74	-22.42	99	103	V
	* 2.39	46.18	AV	32.1	-26.7	-23.1	28.48	54	-25.52	-	-	99	103	V
2	* 2.372	56.01	Pk	32	-26.7	0	61.31	-	-	74	-12.69	99	103	V
	* 2.372	56.01	AV	32	-26.7	-23.1	38.21	54	-15.79	-	-	99	103	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL) – ANT2



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

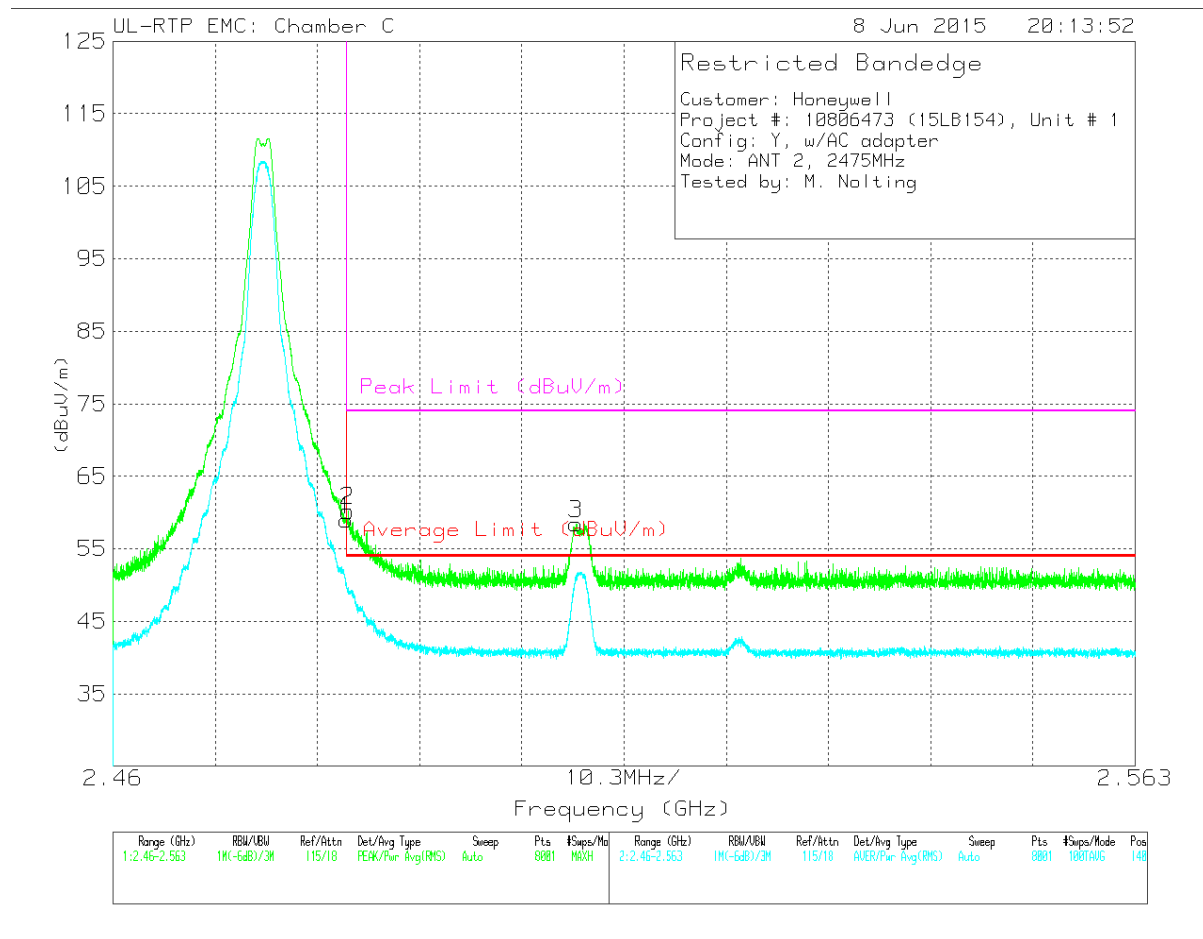
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.64	Pk	32.3	-26.5	0	61.44	-	-	74	-12.56	189	136	H
	* 2.484	55.64	AV	32.3	-26.5	-23.1	38.34	54	-15.66	-	-	189	136	H
2	* 2.484	55.69	Pk	32.3	-26.5	0	61.49	-	-	74	-12.51	189	136	H
	* 2.484	55.69	AV	32.3	-26.5	-23.1	38.39	54	-15.61	-	-	189	136	H
3	2.507	54.99	Pk	32.4	-26.4	0	60.99	-	-	74	-13.01	189	136	H

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) – ANT2



Note - Average measurements were made to show that there were no other emissions hidden in the peak noise floor.

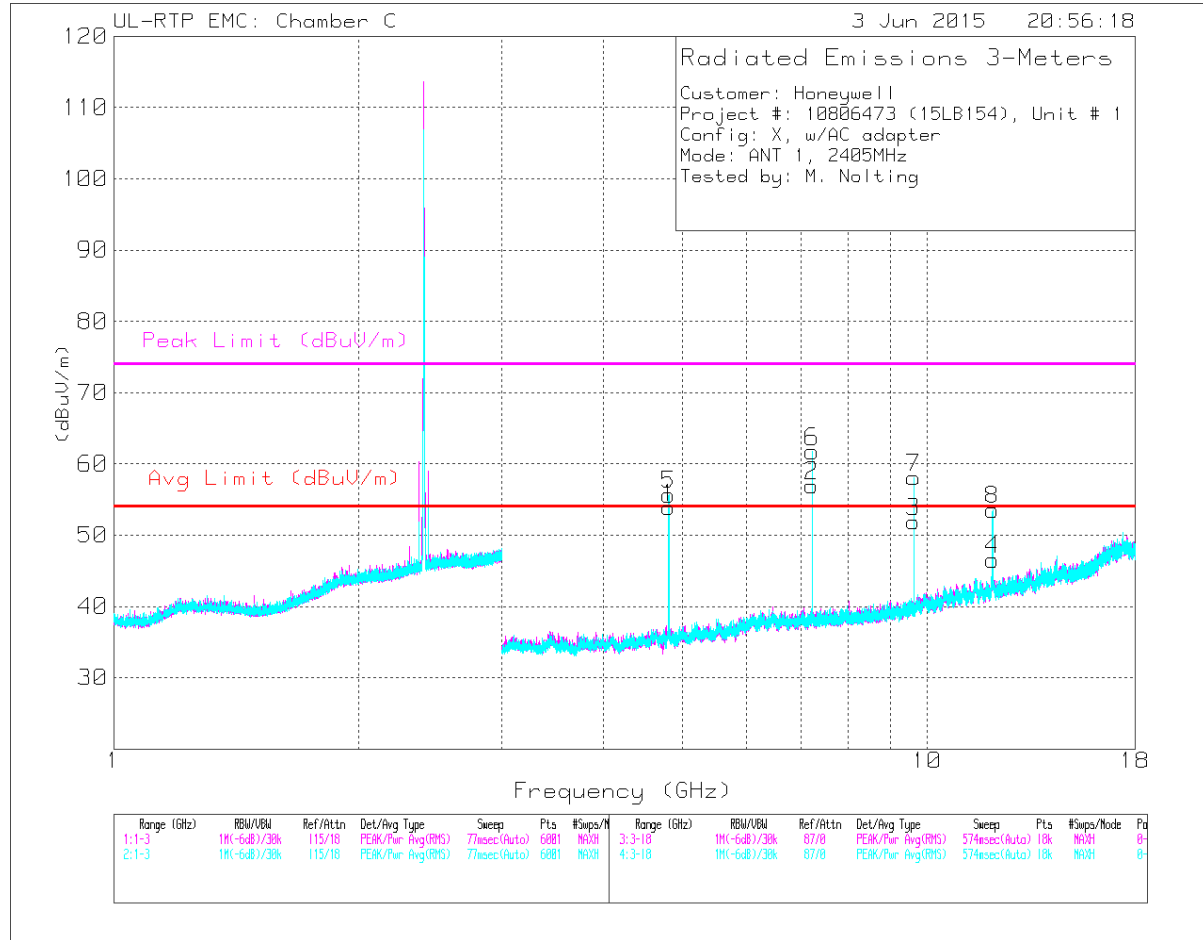
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad		Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	53.19	Pk	32.3	-26.5	0	58.99	-	-	74	-15.01	140	111	V
	* 2.484	53.19	AV	32.3	-26.5	-23.1	35.89	54	-18.11	-	-	140	111	V
2	* 2.484	54.41	Pk	32.3	-26.5	0	60.21	-	-	74	-13.79	140	111	V
	* 2.484	54.41	AV	32.3	-26.5	-23.1	37.11	54	-16.89	-	-	140	111	V
3	2.507	52.44	Pk	32.4	-26.4	0	58.44	-	-	74	-15.56	140	111	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

HARMONICS AND SPURIOUS EMISSIONS - LOW CHANNEL (ANT1)

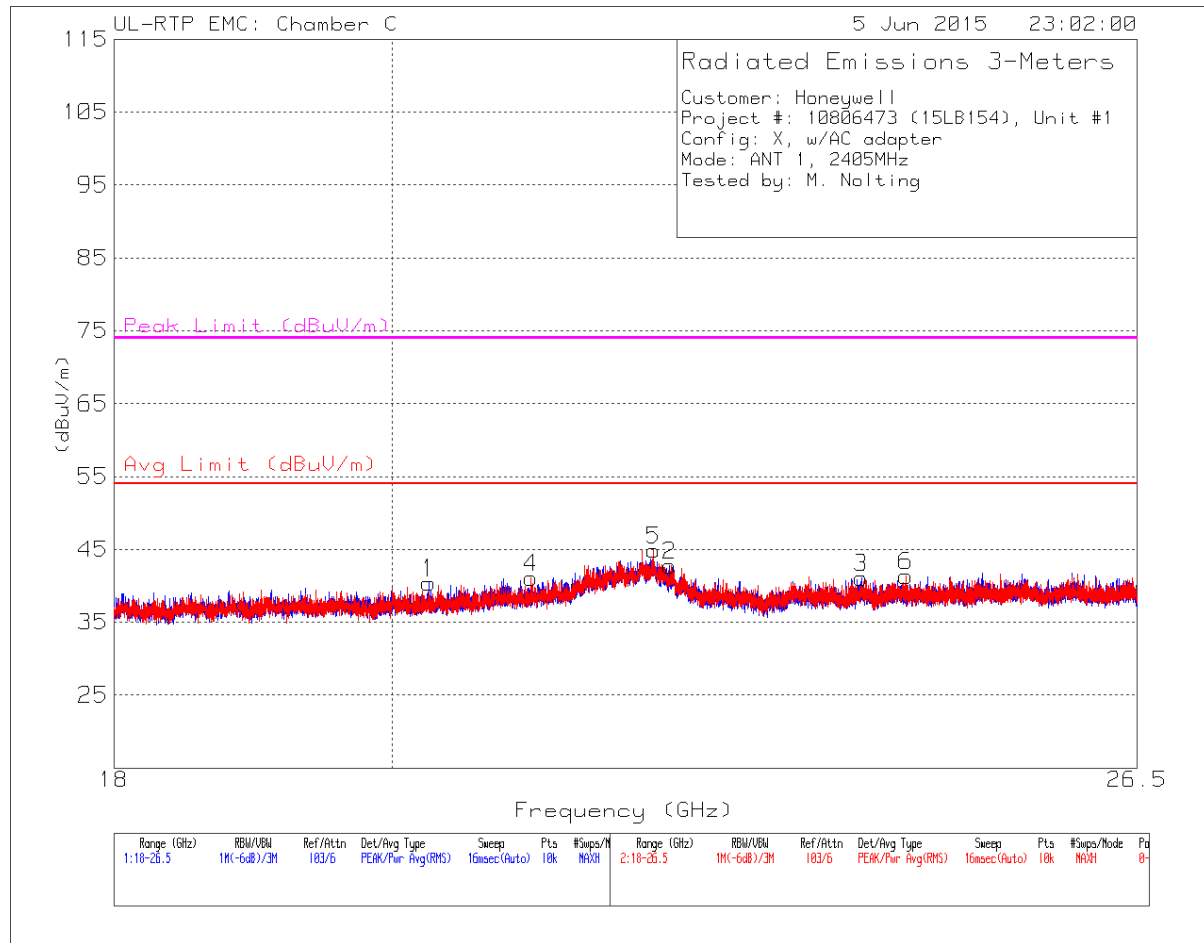


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.809	57.78	Pk	34.1	-32.8	0	59.08	-	-	74	-14.92	66	104	H
	* 4.809	57.78	AV	34.1	-32.8	-23.1	35.98	54	-18.02	-	-	66	104	H
4	* 12.023	42.06	Pk	38.7	-25	0	55.76	-	-	74	-18.24	348	268	H
	* 12.023	42.06	AV	38.7	-25	-23.1	32.66	54	-21.34	-	-	348	268	H
5	* 4.809	60.52	Pk	34.1	-32.8	0	61.82	-	-	74	-12.18	263	101	V
	* 4.809	60.52	AV	34.1	-32.8	-23.1	38.72	54	-15.28	-	-	263	101	V
8	* 12.028	47.44	Pk	38.7	-24.9	0	61.24	-	-	74	-12.76	240	108	V
	* 12.028	47.44	AV	38.7	-24.9	-23.1	38.14	54	-15.86	-	-	240	108	V
2	7.214	50.14	Pk	35.6	-28.8	0	56.94	-	-	74	-17.06	0-360	151	H
6	7.216	54.93	Pk	35.6	-28.8	0	61.73	-	-	74	-12.27	0-360	151	V
3	9.618	42.9	Pk	36.8	-27.8	0	51.9	-	-	74	-22.1	0-360	151	H
7	9.622	49.09	Pk	36.8	-27.8	0	58.09	-	-	74	-15.91	0-360	250	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

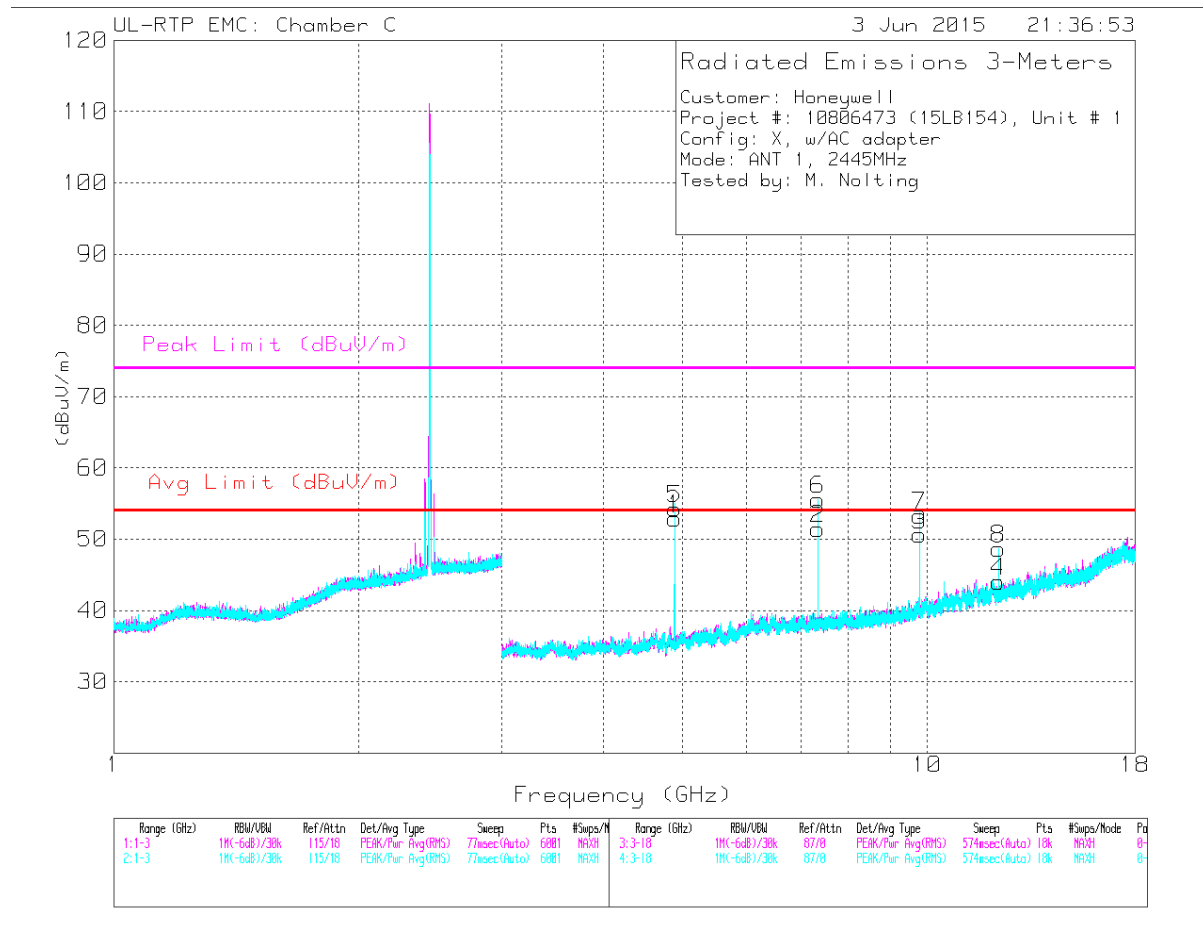


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.279	53.78	Pk	32.8	-46.2	40.38	54	-13.62	74	-33.62	0-360	200	H
2	* 22.21	52.38	Pk	36.2	-45.8	42.78	54	-11.22	74	-31.22	0-360	200	H
3	* 23.878	53	Pk	33.7	-45.6	41.1	54	-12.9	74	-32.9	0-360	200	H
4	* 21.076	53.47	Pk	33.5	-45.9	41.07	54	-12.93	74	-32.93	0-360	225	V
5	* 22.076	53.78	Pk	36.9	-45.8	44.88	54	-9.12	74	-29.12	0-360	175	V
6	24.283	52.97	Pk	33.6	-45.2	41.37	-	-	74	-32.63	0-360	151	V

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS - MID CHANNEL (ANT1)

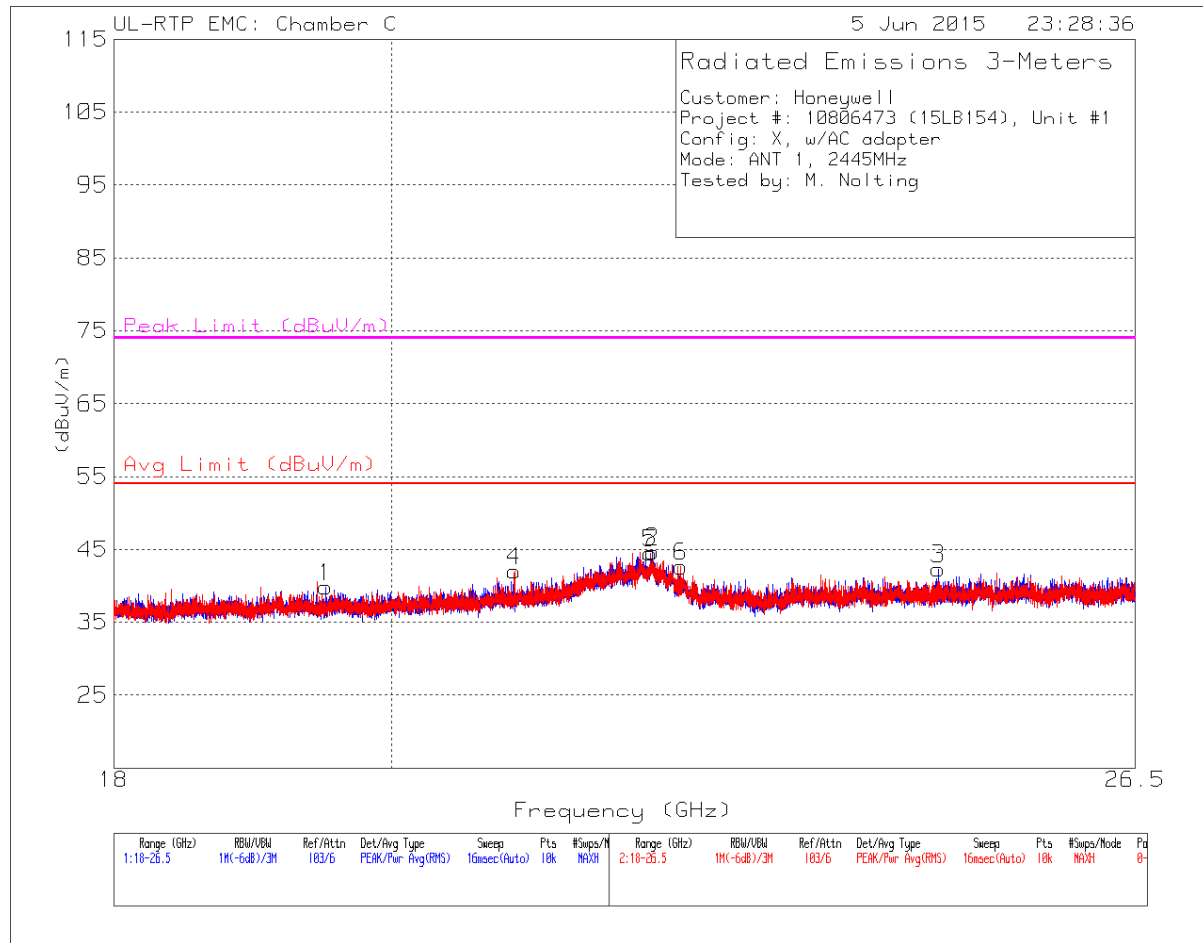


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9	* 2.349	51.24	Pk	32	-26.7	0	56.54	-	-	74	-17.46	333	117	H
	* 2.349	51.24	AV	32	-26.7	-23.1	33.44	54	-20.56	-	-	333	117	H
10	* 2.381	50.38	Pk	32.1	-26.7	0	55.78	-	-	74	-18.22	334	140	H
	* 2.381	50.38	AV	32.1	-26.7	-23.1	32.68	54	-21.32	-	-	334	140	H
1	* 4.889	58.03	Pk	34	-33	0	59.03	-	-	74	-14.97	64	101	H
	* 4.889	58.03	AV	34	-33	-23.1	35.93	54	-18.07	-	-	64	101	H
2	* 7.334	52.4	Pk	35.7	-28.9	0	59.2	-	-	74	-14.8	278	101	H
	* 7.334	52.4	AV	35.7	-28.9	-23.1	36.1	54	-17.9	-	-	278	101	H
4	* 12.223	41.46	Pk	38.9	-26.7	0	53.66	-	-	74	-20.34	149	292	H
	* 12.223	41.46	AV	38.9	-26.7	-23.1	30.56	54	-23.44	-	-	149	292	H
5	* 4.889	59.65	Pk	34	-33	0	60.65	-	-	74	-13.35	263	101	V
	* 4.889	59.65	AV	34	-33	-23.1	37.55	54	-16.45	-	-	263	101	V
6	* 7.334	54.65	Pk	35.7	-28.9	0	61.45	-	-	74	-12.55	103	113	V
	* 7.334	54.65	AV	35.7	-28.9	-23.1	38.35	54	-15.65	-	-	103	113	V
8	* 12.228	44.66	Pk	38.9	-26.8	0	56.76	-	-	74	-17.24	231	235	V
	* 12.228	44.66	Pk	38.9	-26.8	-23.1	33.66	54	-20.34	-	-	231	235	V
3	9.782	40.52	Pk	37	-26.9	0	50.62	-	-	74	-23.38	0-360	151	H
7	9.782	43.18	Pk	37	-26.9	0	53.28	-	-	74	-20.72	0-360	250	V

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

Pk - Peak detector

AV - Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

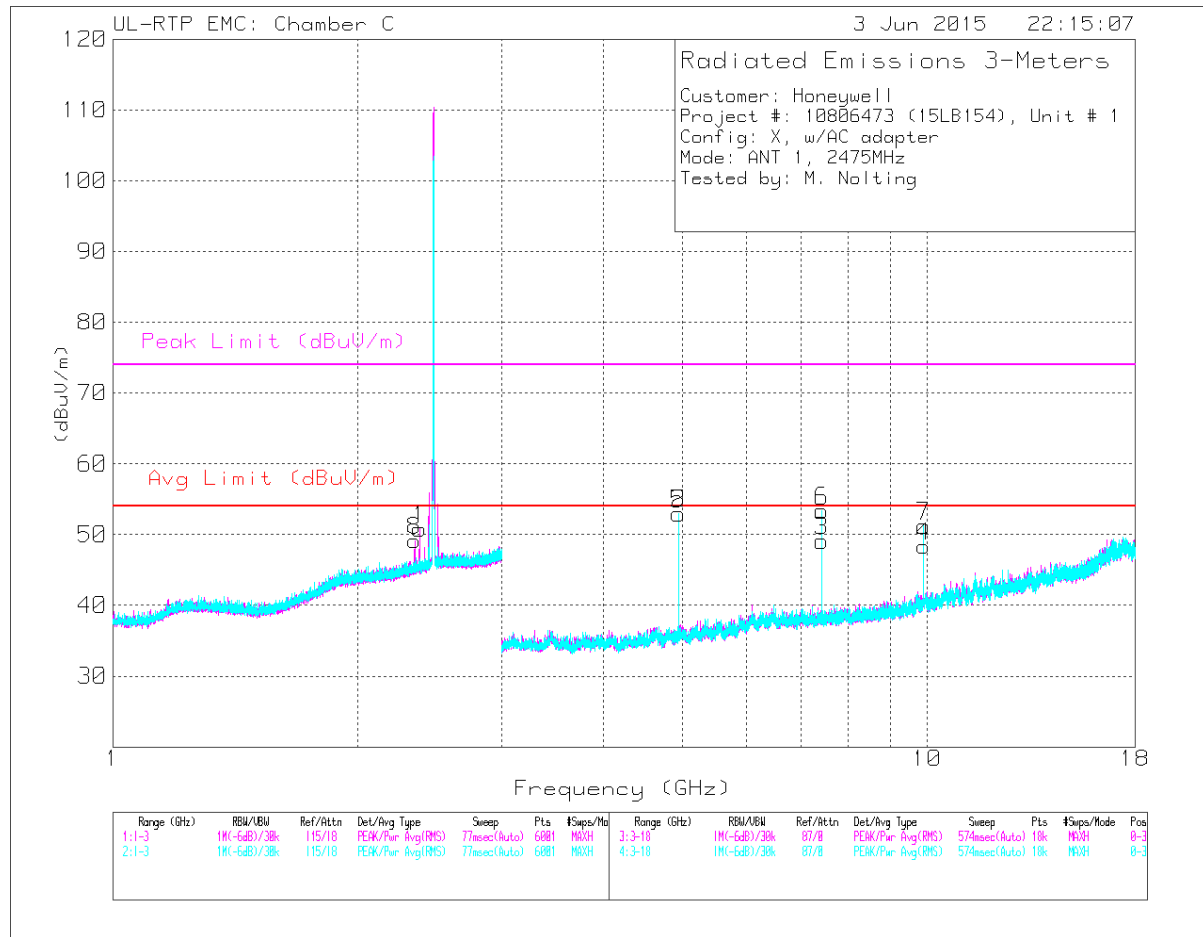


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.505	53.54	Pk	32.6	-46.3	39.84	54	-14.16	74	-34.16	0-360	175	H
4	* 20.95	54.43	Pk	33.5	-45.9	42.03	54	-11.97	74	-31.97	0-360	151	V
5	* 22.057	53.49	Pk	36.9	-45.9	44.49	54	-9.51	74	-29.51	0-360	175	V
2	* 22.075	53.55	Pk	36.9	-45.8	44.65	54	-9.35	74	-29.35	0-360	175	H
6	* 22.312	52.85	Pk	35.7	-45.9	42.65	54	-11.35	74	-31.35	0-360	225	V
3	24.6	53.32	Pk	33.8	-44.8	42.32	-	-	74	-31.68	0-360	225	H

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS - HIGH CHANNEL (ANT1)

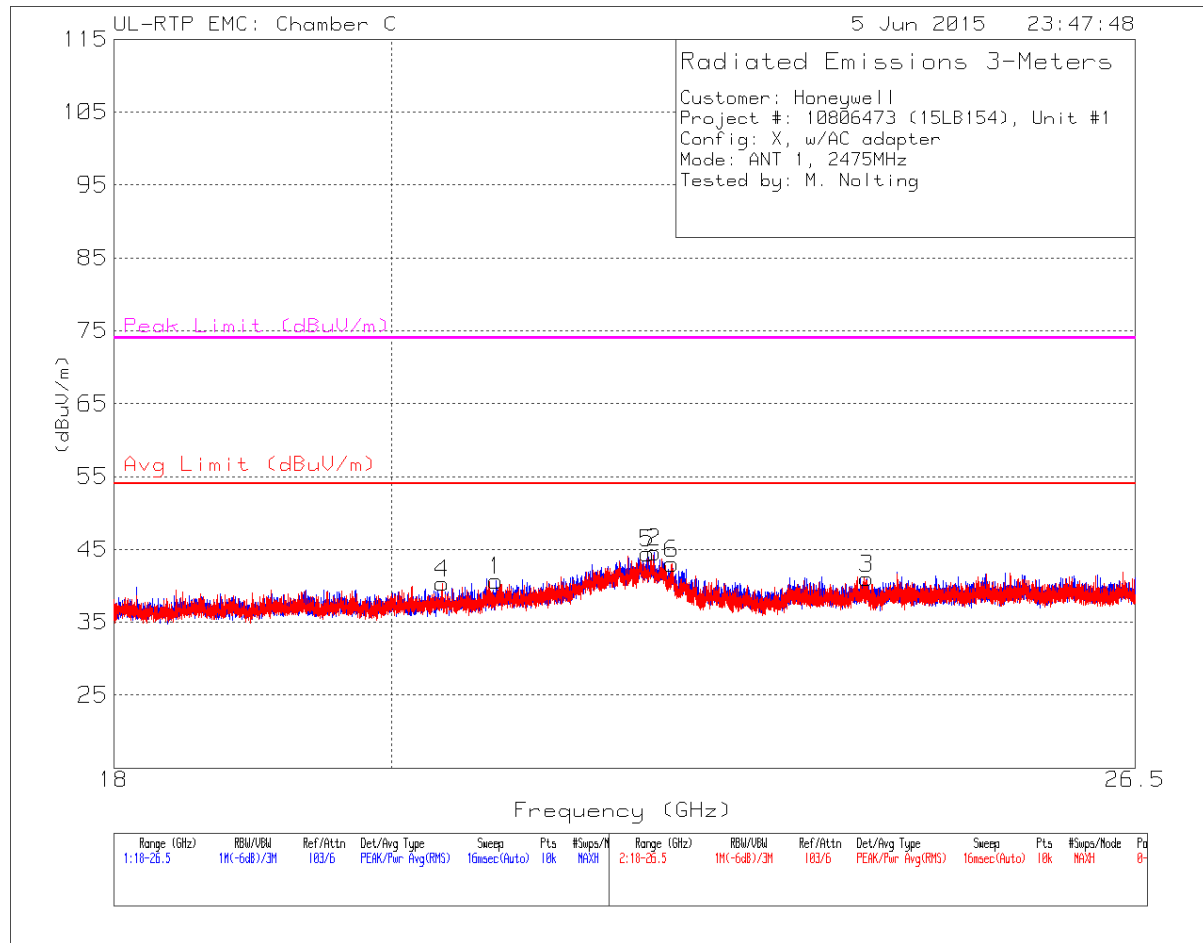


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38	52.41	Pk	32.1	-26.7	0	57.81	-	-	74	-16.19	333	101	H
	* 2.38	52.41	AV	32.1	-26.7	-23.1	34.71	54	-19.29	-	-	333	101	H
8	* 2.346	51.16	Pk	32	-26.8	0	56.36	-	-	74	-17.64	337	117	H
	* 2.346	51.16	AV	32	-26.8	-23.1	33.26	54	-20.74	-	-	337	117	H
2	* 4.951	57.91	Pk	34.1	-32.8	0	59.21	-	-	74	-14.79	64	116	H
	* 4.951	57.91	AV	34.1	-32.8	-23.1	36.11	54	-17.89	-	-	64	116	H
3	* 7.424	49.34	Pk	35.7	-28.6	0	56.44	-	-	74	-17.56	279	109	H
	* 7.424	49.34	AV	35.7	-28.6	-23.1	33.34	54	-20.66	-	-	279	109	H
5	* 4.949	56.75	Pk	34.1	-32.8	0	58.05	-	-	74	-15.95	261	106	V
	* 4.949	56.75	AV	34.1	-32.8	-23.1	34.95	54	-19.05	-	-	261	106	V
6	* 7.427	52.14	Pk	35.7	-28.6	0	59.24	-	-	74	-14.76	110	102	V
	* 7.427	52.14	AV	35.7	-28.6	-23.1	36.14	54	-17.86	-	-	110	102	V
4	9.898	37.56	Pk	37.1	-26.3	0	48.36	-	-	74	-25.64	0-360	151	H
7	9.902	40.41	Pk	37.1	-26.3	0	51.21	-	-	74	-22.79	0-360	250	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

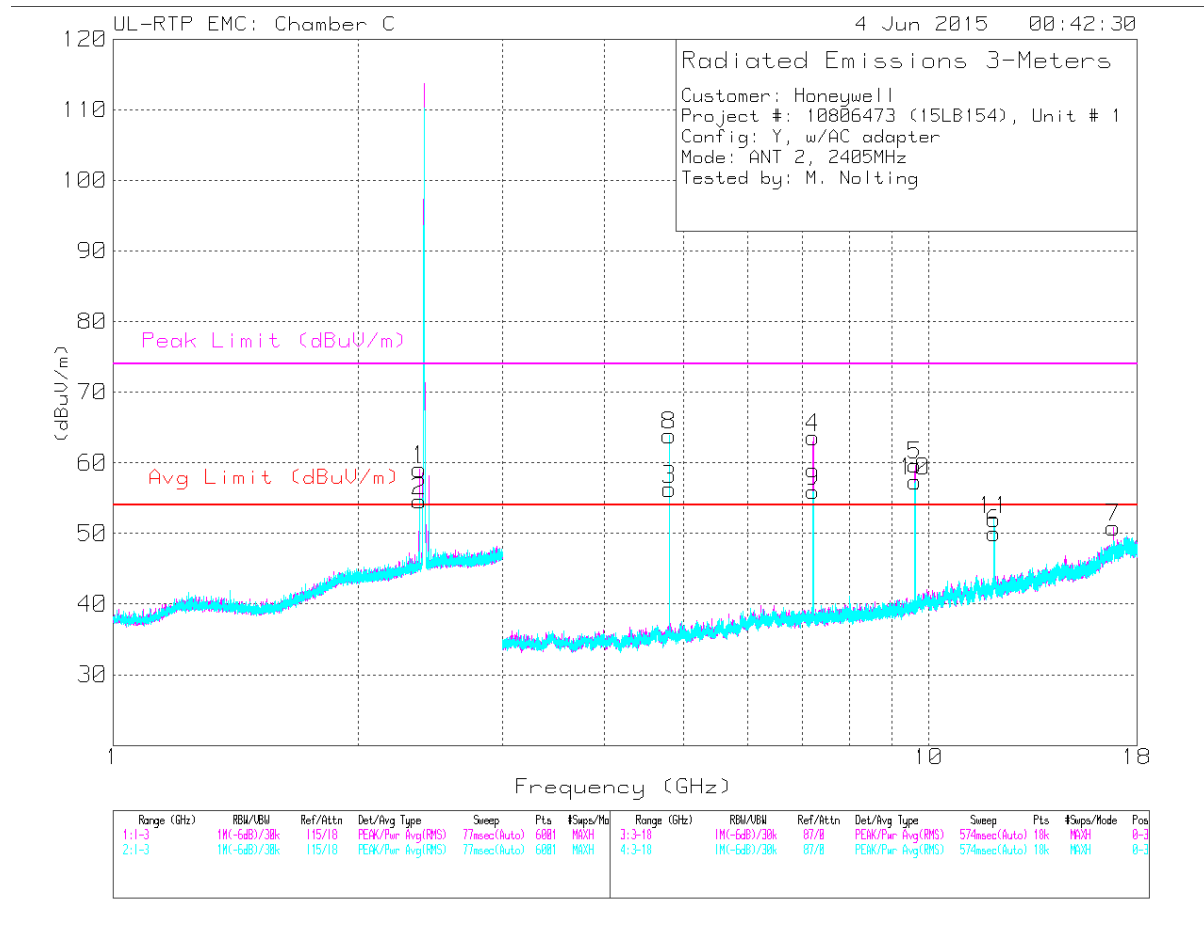


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 20.387	53.35	Pk	33.1	-46.1	40.35	54	-13.65	74	-33.65	0-360	175	V
1	* 20.804	53.52	Pk	33.2	-46	40.72	54	-13.28	74	-33.28	0-360	225	H
5	* 22.032	53.37	Pk	36.9	-45.8	44.47	54	-9.53	74	-29.53	0-360	151	V
2	* 22.091	53.61	Pk	36.8	-45.8	44.61	54	-9.39	74	-29.39	0-360	200	H
6	* 22.237	52.83	Pk	36	-45.8	43.03	54	-10.97	74	-30.97	0-360	200	V
3	* 23.939	52.81	Pk	33.7	-45.5	41.01	54	-12.99	74	-32.99	0-360	175	H

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS - LOW CHANNEL (ANT2)

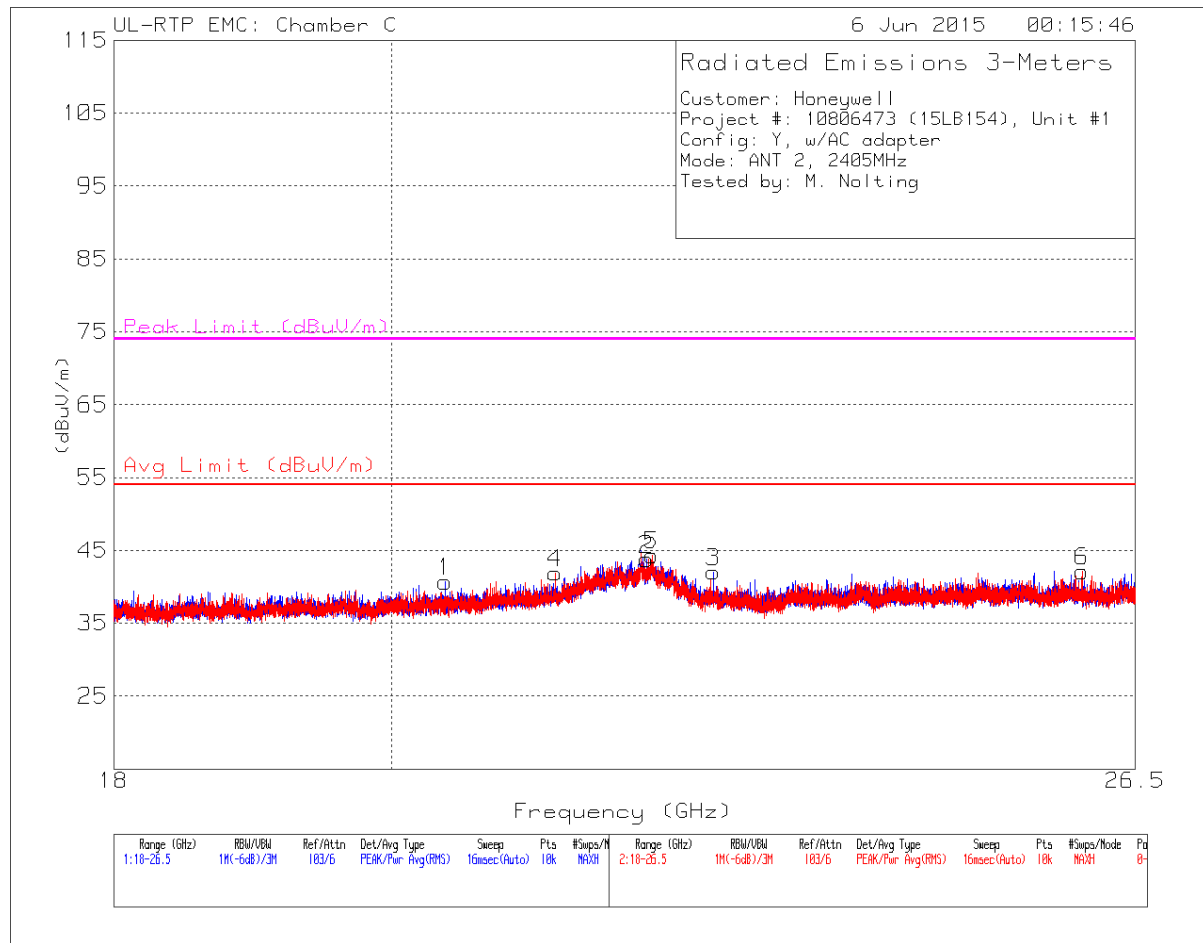


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/ Filt/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.374	57.87	Pk	32	-26.7	0	63.17	-	-	74	-10.83	42	169	H
	* 2.374	57.87	AV	32	-26.7	-23.1	40.07	54	-13.93	-	-	42	169	H
2	* 2.372	56.01	Pk	32	-26.7	0	61.31	-	-	74	-12.69	99	103	V
	* 2.372	56.01	AV	32	-26.7	-23.1	38.21	54	-15.79	-	-	99	103	V
3	* 4.809	58.12	Pk	34.1	-32.8	0	59.42	-	-	74	-14.58	222	235	H
	* 4.809	58.12	AV	34.1	-32.8	-23.1	36.32	54	-17.68	-	-	222	235	H
6	* 12.023	44.82	Pk	38.7	-25	0	58.52	-	-	74	-15.48	177	238	H
	* 12.023	44.82	AV	38.7	-25	-23.1	35.42	54	-18.58	-	-	177	238	H
8	* 4.809	65.81	Pk	34.1	-32.8	0	67.11	-	-	74	-6.89	200	122	V
	* 4.809	65.81	AV	34.1	-32.8	-23.1	44.01	54	-9.99	-	-	200	122	V
11	* 12.028	47.5	Pk	38.7	-24.9	0	61.3	-	-	74	-12.7	200	311	V
	* 12.028	47.5	AV	38.7	-24.9	-23.1	38.2	54	-15.8	-	-	200	311	V
4	7.216	56.79	Pk	35.6	-28.8	0	63.59	-	-	74	-10.41	0-360	250	H
9	7.216	49.17	Pk	35.6	-28.8	0	55.97	-	-	74	-18.03	0-360	151	V
5	9.622	50.66	Pk	36.8	-27.8	0	59.66	-	-	74	-14.34	0-360	250	H
10	9.622	48.36	Pk	36.8	-27.8	0	57.36	-	-	74	-16.64	0-360	250	V
7	16.839	29.94	Pk	41.6	-20.7	0	50.84	-	-	74	-23.16	0-360	250	H

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

Pk - Peak detector

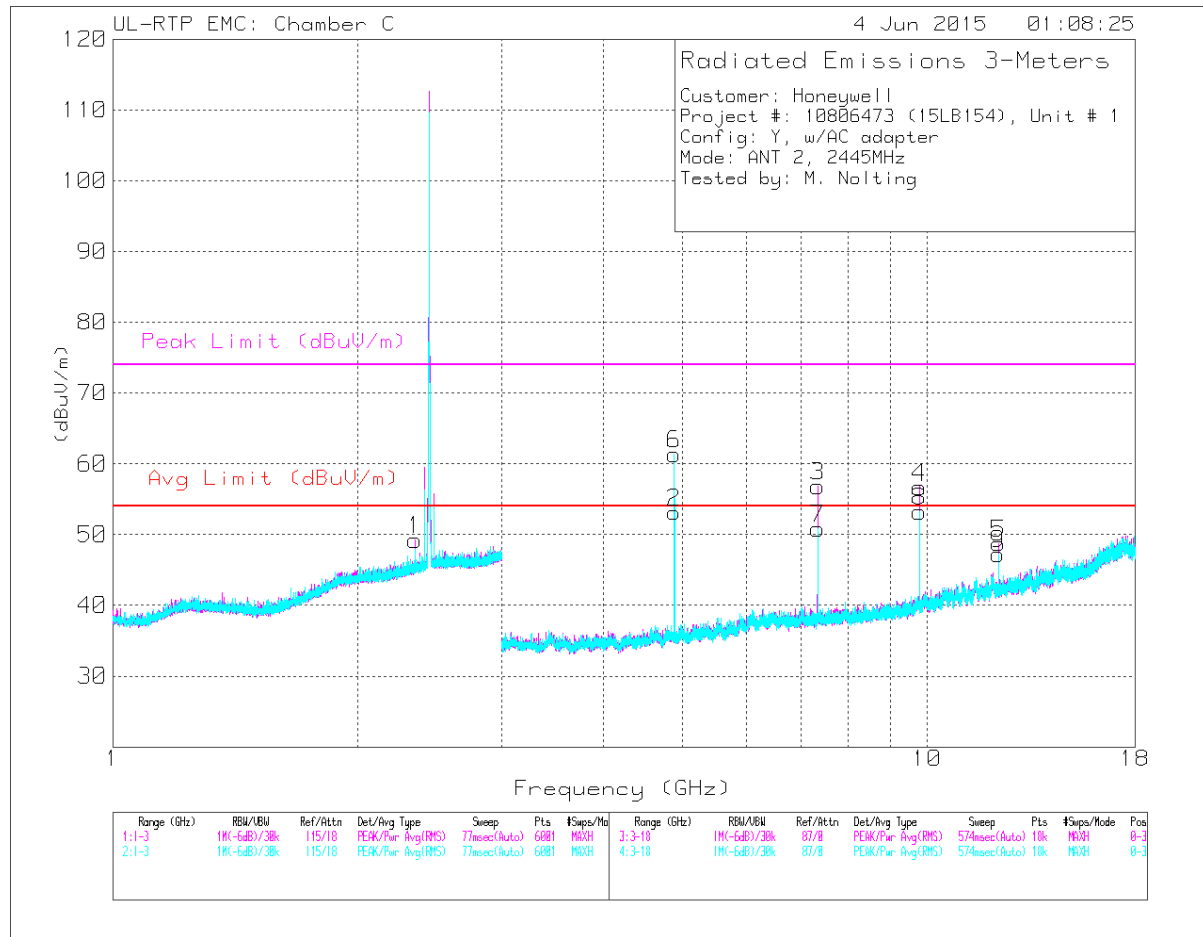
AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.



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	* 20.409	53.59	Pk	33.2	-46.1	40.69	54	-13.31	74	-33.31	0-360	175	H
4	* 21.278	53.8	Pk	33.9	-45.8	41.9	54	-12.1	74	-32.1	0-360	200	V
2	* 22.027	52.66	Pk	36.9	-45.8	43.76	54	-10.24	74	-30.24	0-360	175	H
5	* 22.069	53.22	Pk	36.9	-45.8	44.32	54	-9.68	74	-29.68	0-360	175	V
3	* 22.591	53.74	Pk	34.2	-45.9	42.04	54	-11.96	74	-31.96	0-360	200	H
6	25.973	51.94	Pk	34	-43.8	42.14	-	-	74	-31.86	0-360	175	V

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

HARMONICS AND SPURIOUS EMISSIONS - MID CHANNEL (ANT2)

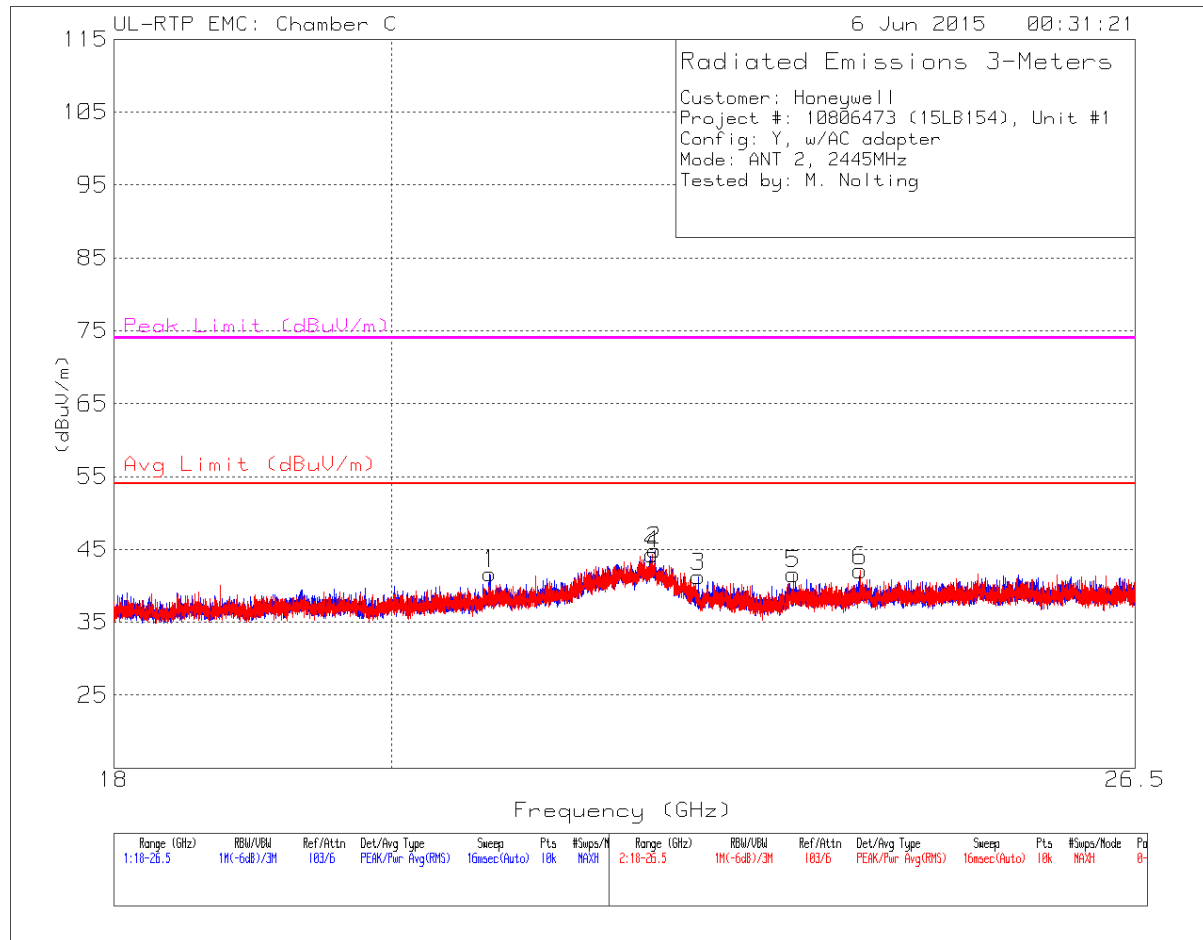


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F ltr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.349	51.44	Pk	32	-26.7	0	56.74	-	-	74	-17.26	39	149	H
	* 2.349	51.44	AV	32	-26.7	-23.1	33.64	54	-20.36	-	-	39	149	H
2	* 4.891	59.03	Pk	34	-33	0	60.03	-	-	74	-13.97	262	195	H
	* 4.891	59.03	AV	34	-33	-23.1	36.93	54	-17.07	-	-	262	195	H
3	* 7.334	55.61	Pk	35.7	-28.9	0	62.41	-	-	74	-11.59	233	235	H
	* 7.334	55.61	AV	35.7	-28.9	-23.1	39.31	54	-14.69	-	-	233	235	H
5	* 12.223	44.73	Pk	38.9	-26.7	0	56.93	-	-	74	-17.07	178	277	H
	* 12.223	44.73	AV	38.9	-26.7	-23.1	33.83	54	-20.17	-	-	178	277	H
6	* 4.889	64.25	Pk	34	-33	0	65.25	-	-	74	-8.75	198	124	V
	* 4.889	64.25	AV	34	-33	-23.1	42.15	54	-11.85	-	-	198	124	V
7	* 7.334	50.94	Pk	35.7	-28.9	0	57.74	-	-	74	-16.26	68	141	V
	* 7.334	50.94	AV	35.7	-28.9	-23.1	34.64	54	-19.36	-	-	68	141	V
9	* 12.223	43.76	Pk	38.9	-26.7	0	55.96	-	-	74	-18.04	171	238	V
	* 12.223	43.76	AV	38.9	-26.7	-23.1	32.86	54	-21.14	-	-	171	238	V
8	9.778	43.16	Pk	37	-26.9	0	53.26	-	-	74	-20.74	0-360	250	V
4	9.782	46.57	Pk	37	-26.9	0	56.67	-	-	74	-17.33	0-360	250	H

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

Pk - Peak detector

AV - Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.

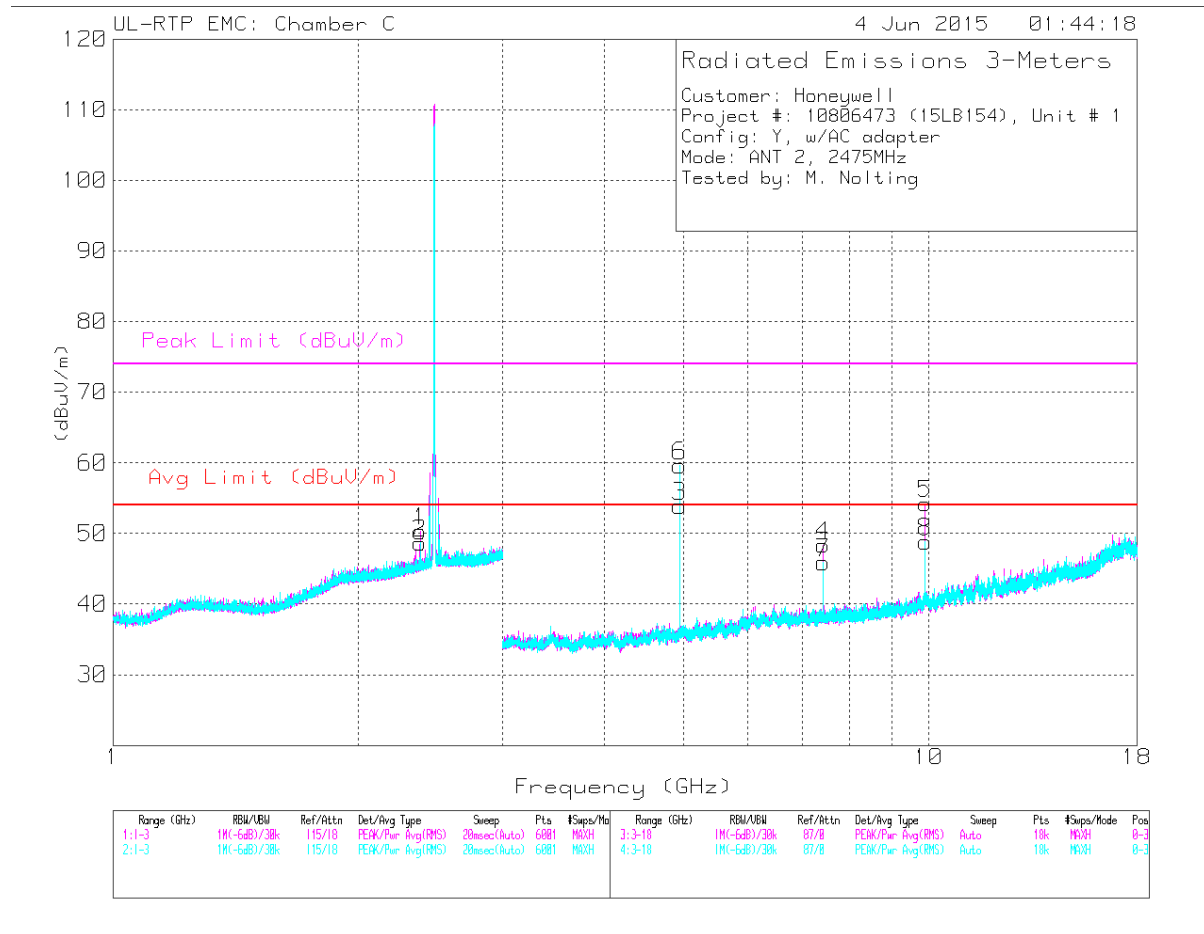


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.756	54.57	Pk	33.1	-46	41.67	54	-12.33	74	-32.33	0-360	225	H
4	* 22.069	53.25	Pk	36.9	-45.8	44.35	54	-9.65	74	-29.65	0-360	200	V
2	* 22.093	53.89	Pk	36.8	-45.8	44.89	54	-9.11	74	-29.11	0-360	175	H
3	* 22.46	52.37	Pk	34.8	-45.9	41.27	54	-12.73	74	-32.73	0-360	225	H
6	* 23.88	53.98	Pk	33.7	-45.6	42.08	54	-11.92	74	-31.92	0-360	225	V
5	23.282	54.02	Pk	33.5	-45.9	41.62	-	-	74	-32.38	0-360	225	V

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS - HIGH CHANNEL (ANT2)

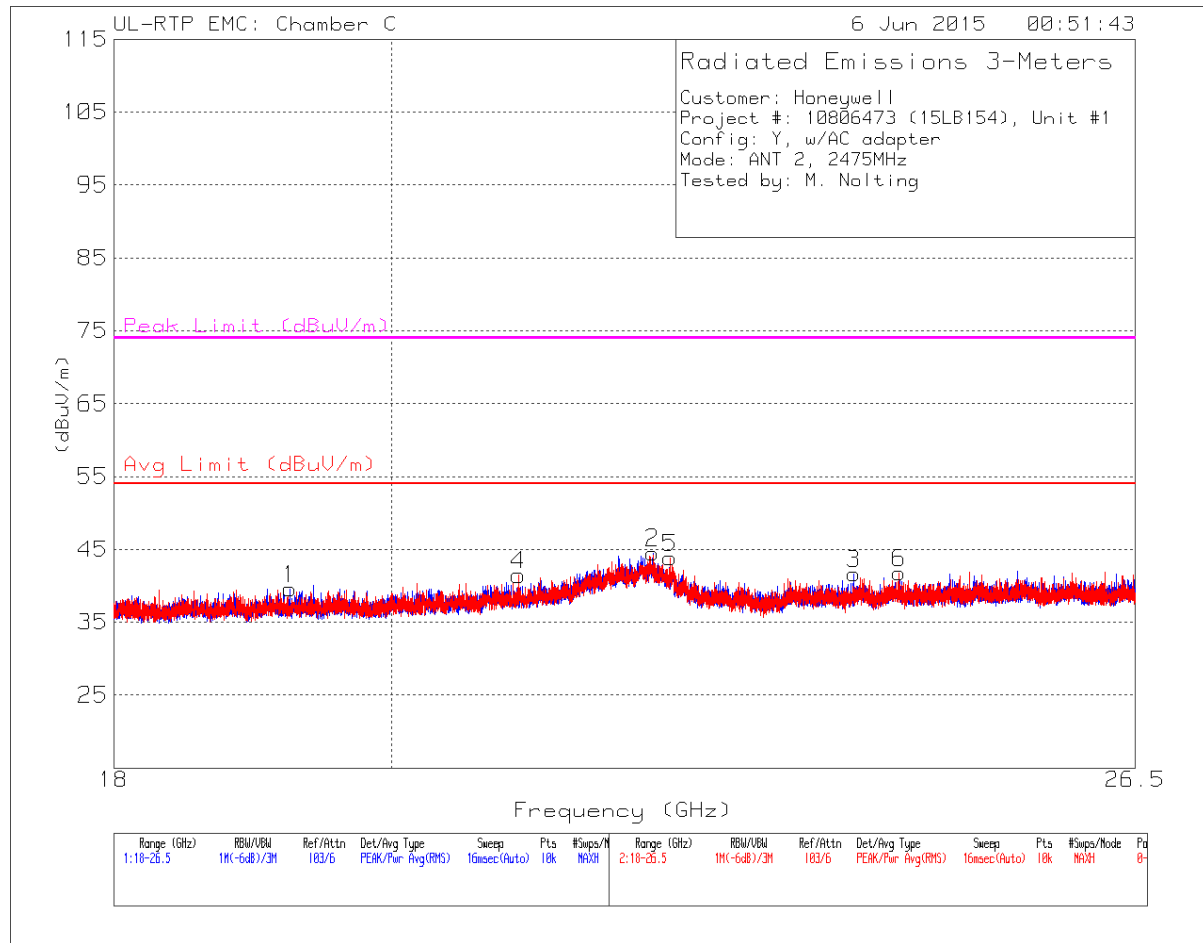


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/F Itr/Pad	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38	52.23	PK2	32.1	-26.7	0	57.63	-	-	74	-16.37	48	173	H
	* 2.38	52.23	AV	32.1	-26.7	-23.1	34.53	54	-19.47	-	-	48	173	H
2	* 2.379	51.8	PK2	32.1	-26.7	0	57.2	-	-	74	-16.8	99	132	V
	* 2.379	51.8	AV	32.1	-26.7	-23.1	34.1	54	-19.9	-	-	99	132	V
3	* 4.949	60.35	PK2	34.1	-32.8	0	61.65	-	-	74	-12.35	261	191	H
	* 4.949	60.35	AV	34.1	-32.8	-23.1	38.55	54	-15.45	-	-	261	191	H
4	* 7.424	51.76	PK2	35.7	-28.6	0	58.86	-	-	74	-15.14	233	220	H
	* 7.424	51.76	AV	35.7	-28.6	-23.1	35.76	54	-18.24	-	-	233	220	H
6	* 4.949	62.87	PK2	34.1	-32.8	0	64.17	-	-	74	-9.83	199	132	V
	* 4.949	62.87	AV	34.1	-32.8	-23.1	41.07	54	-12.93	-	-	198	132	V
7	* 7.424	45.86	PK2	35.7	-28.6	0	52.96	-	-	74	-21.04	64	145	V
	* 7.424	45.86	AV	35.7	-28.6	-23.1	29.86	54	-24.14	-	-	64	145	V
5	9.902	43.44	Pk	37.1	-26.3	0	54.24	-	-	74	-19.76	0-360	151	H
8	9.902	38	Pk	37.1	-26.3	0	48.8	-	-	74	-25.2	0-360	151	V

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

Pk - Peak detector

AV – Average calculated using $AV = PK + 20\log(DC)$. Where $DC = 0.06976$.



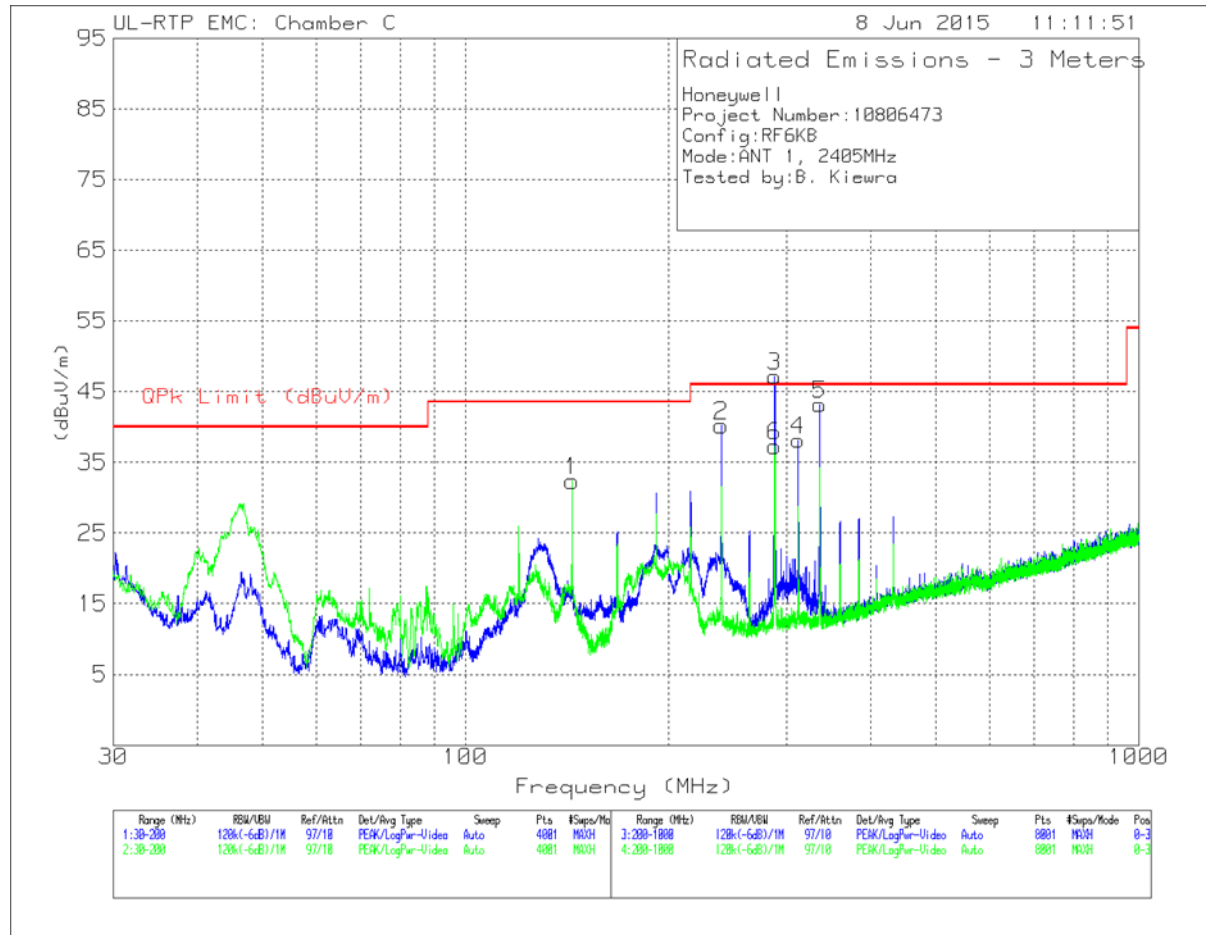
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn AT0063 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.244	53.18	Pk	32.6	-46.2	39.58	54	-14.42	74	-34.42	0-360	200	H
4	* 20.982	53.88	Pk	33.5	-45.9	41.48	54	-12.52	74	-32.52	0-360	175	V
2	* 22.077	53.52	Pk	36.8	-45.8	44.52	54	-9.48	74	-29.48	0-360	225	H
5	* 22.22	53.55	Pk	36.1	-45.8	43.85	54	-10.15	74	-30.15	0-360	200	V
3	* 23.825	53.75	Pk	33.6	-45.7	41.65	54	-12.35	74	-32.35	0-360	149	H
6	24.236	53.49	Pk	33.5	-45.2	41.79	-	-	74	-32.21	0-360	151	V

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

Pk - Peak detector

8.3. TX SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT1, LOW CHANNEL)



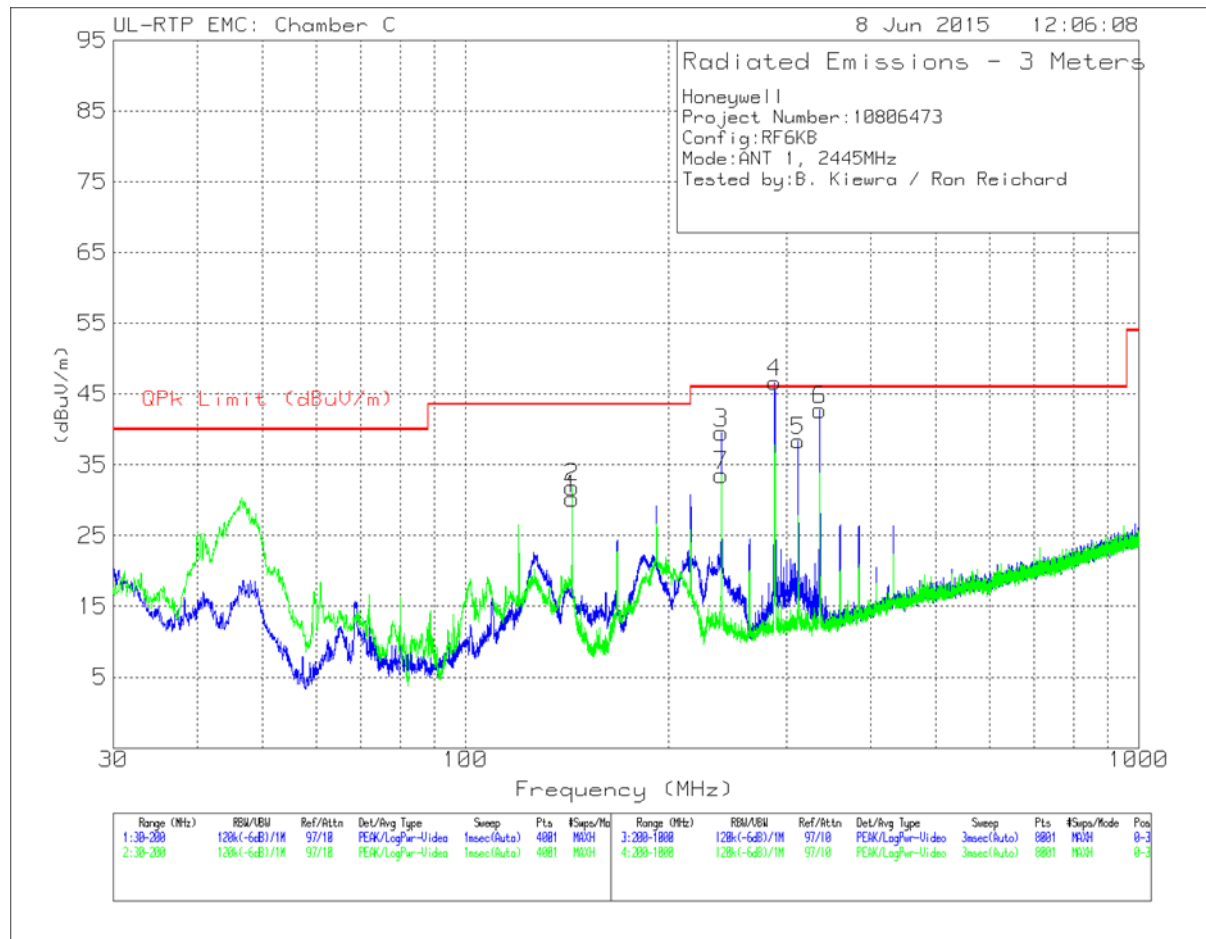
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*240	58.62	Qp	11.5	-30	40.12	46.02	-5.9	27	129	H
1	143.985	49.77	Pk	13.1	-30.5	32.37	43.52	-11.15	0-360	100	V
3	288	63.78	Pk	13.3	-29.9	47.18	-	-	0-360	100	H
6	288	53.9	Pk	13.3	-29.9	37.3	-	-	0-360	200	V
4	312	54.05	Pk	13.8	-29.7	38.15	-	-	0-360	100	H
5	336	58.98	Pk	13.9	-29.7	43.18	-	-	0-360	100	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT1, MID CHANNEL)



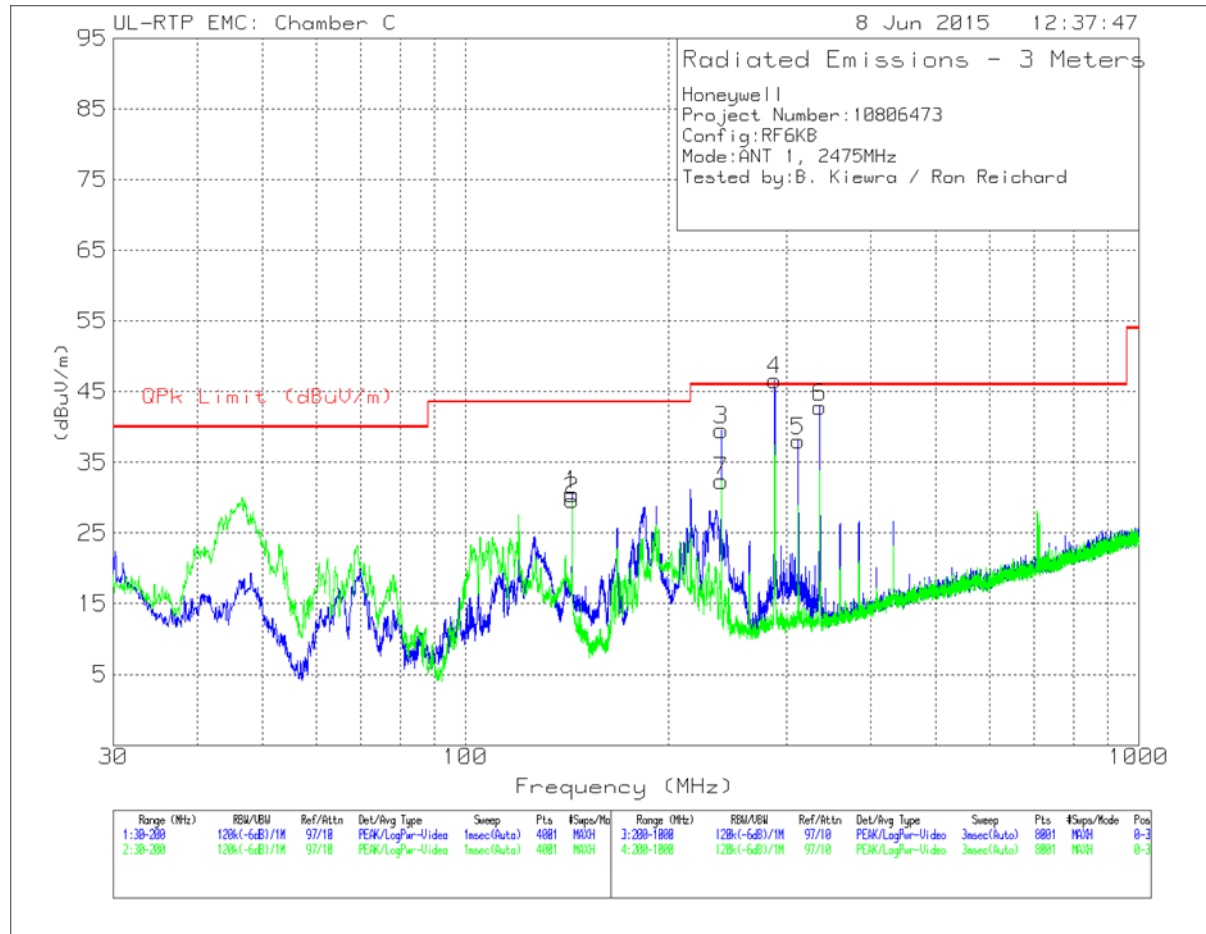
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*240	51.64	Qp	11.5	-30	33.14	46.02	-12.88	243	170	V
7	*240	58.48	Qp	11.5	-30	39.98	46.02	-6.04	19	128	H
1	143.985	47.61	Pk	13.1	-30.5	30.21	-	-	0-360	200	H
2	143.985	49.26	Pk	13.1	-30.5	31.86	-	-	0-360	101	V
4	288	63.28	Pk	13.3	-29.9	46.68	-	-	0-360	101	H
5	312	54.29	Pk	13.8	-29.7	38.39	-	-	0-360	101	H
6	336	58.54	Pk	13.9	-29.7	42.74	-	-	0-360	101	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT1, HIGH CHANNEL)



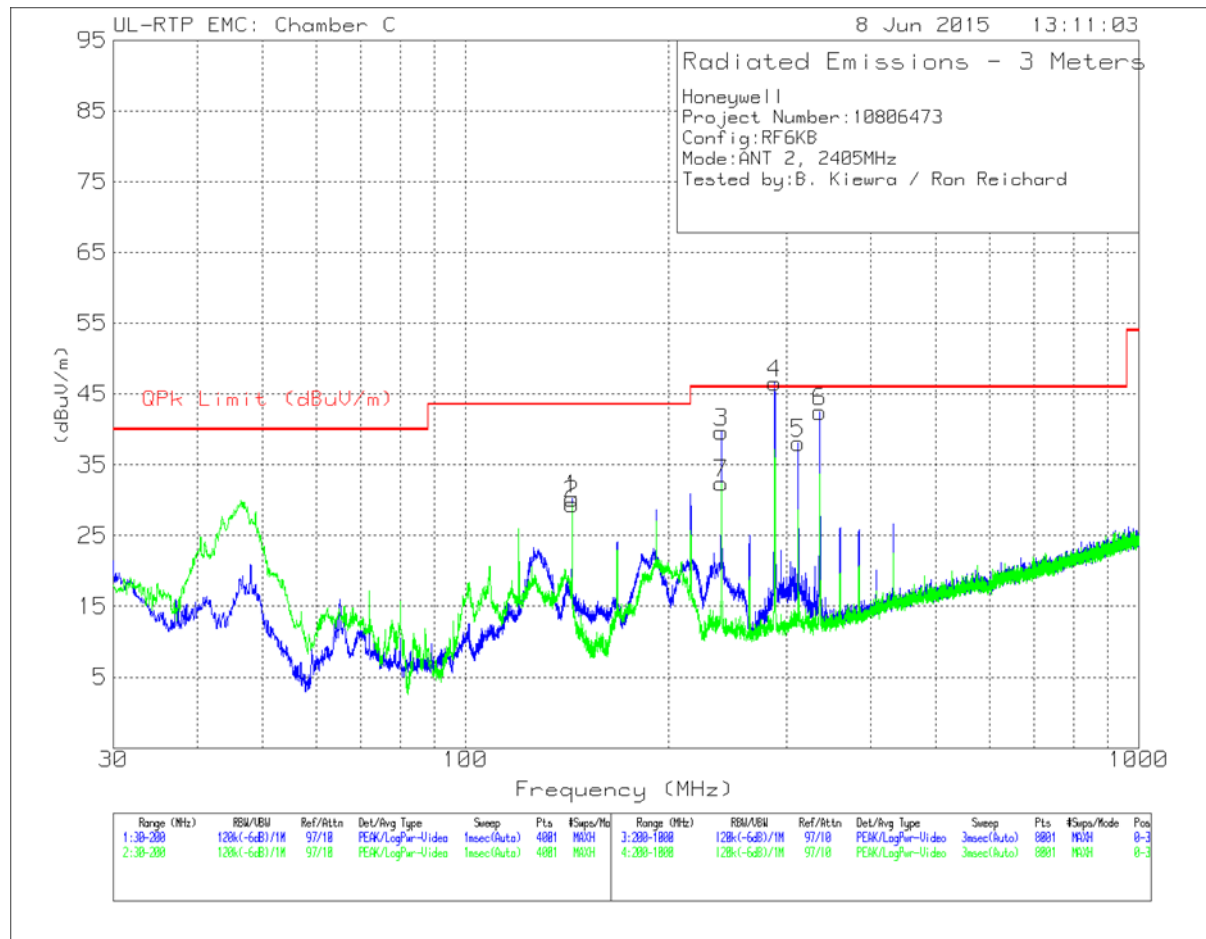
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 240.005	52.41	Qp	11.5	-30	33.91	46.02	-12.11	237	159	V
7	* 240	58.37	Qp	11.5	-30	39.87	46.02	-6.15	357	129	H
1	143.985	47.86	Pk	13.1	-30.5	30.46	-	-	0-360	200	H
2	143.985	47.02	Pk	13.1	-30.5	29.62	-	-	0-360	100	V
4	288	63.21	Pk	13.3	-29.9	46.61	-	-	0-360	100	H
5	312	53.94	Pk	13.8	-29.7	38.04	-	-	0-360	100	H
6	336	58.63	Pk	13.9	-29.7	42.83	-	-	0-360	100	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT2, LOW CHANNEL)



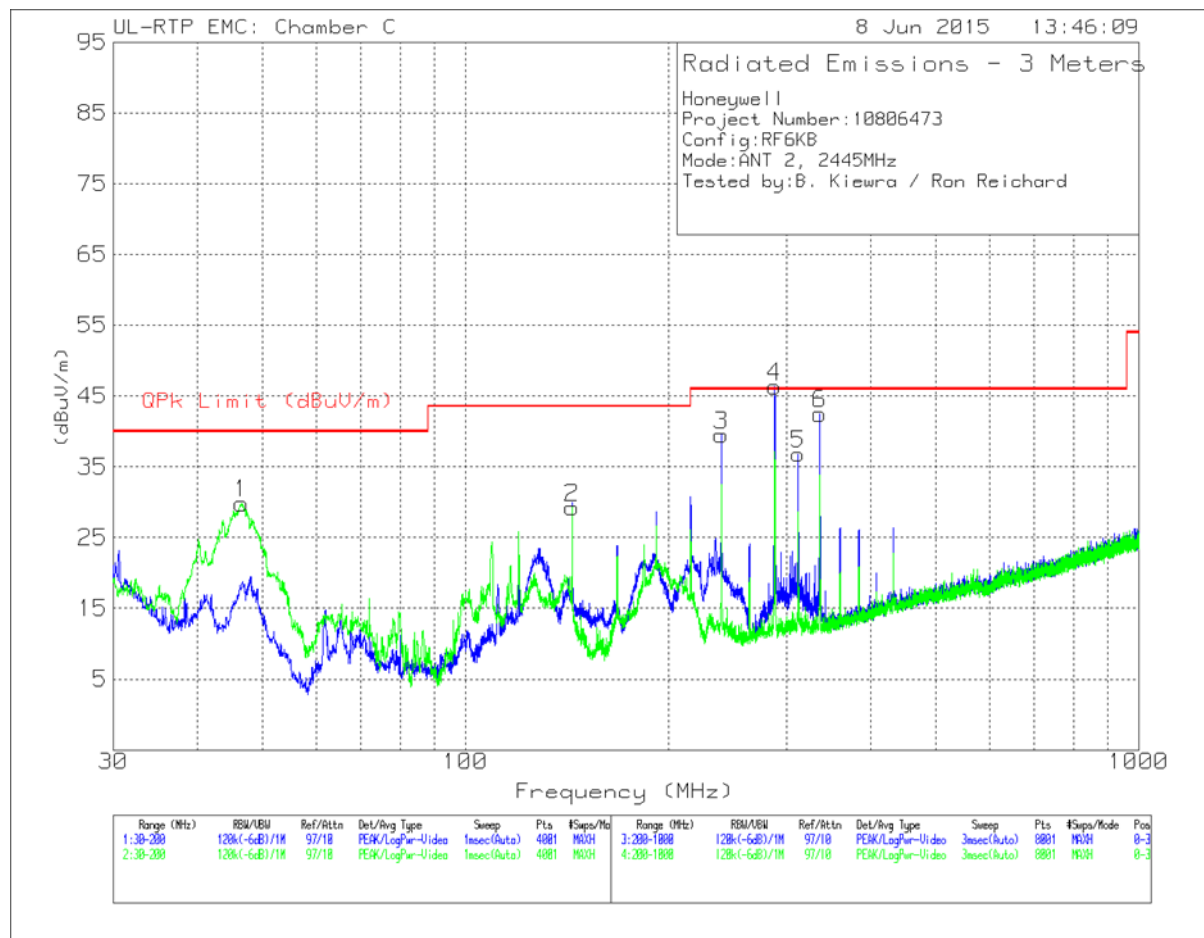
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*240	58.12	Qp	11.5	-30	39.62	46.02	-6.4	359	117	H
7	*240	52.44	Qp	11.5	-30	33.94	46.02	-12.08	239	180	V
1	143.985	47.6	Pk	13.1	-30.5	30.2	-	-	0-360	200	H
2	143.985	46.84	Pk	13.1	-30.5	29.44	-	-	0-360	100	V
4	288	63.16	Pk	13.3	-29.9	46.56	-	-	0-360	100	H
5	312	53.97	Pk	13.8	-29.7	38.07	-	-	0-360	100	H
6	336	58.3	Pk	13.9	-29.7	42.5	-	-	0-360	100	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT2, MID CHANNEL)



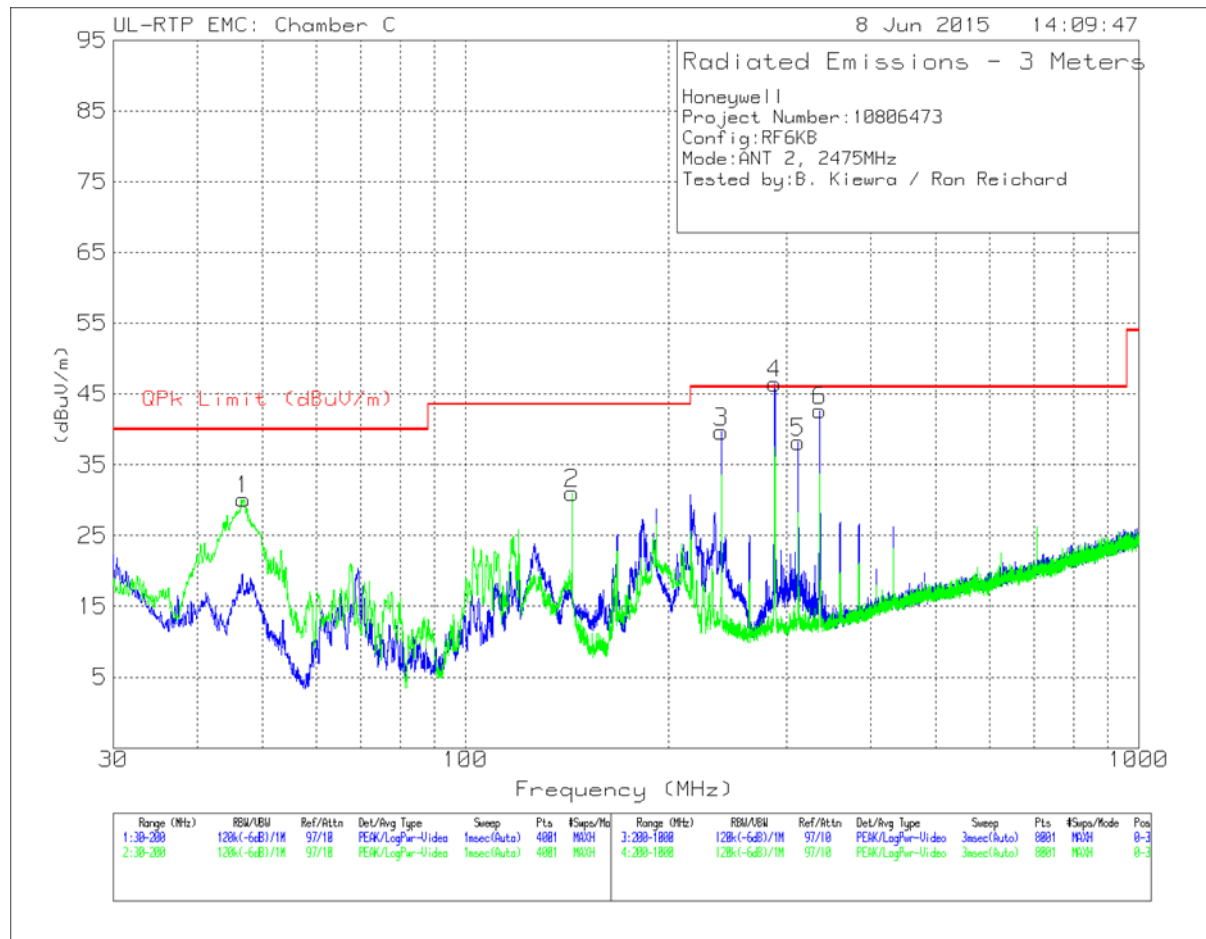
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0066 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*240	58.5	Qp	11.5	-30	40	46.02	-6.02	18	128	H
1	46.49	51.56	Pk	9.7	-31.4	29.86	-	-	0-360	101	V
2	143.985	46.65	Pk	13.1	-30.5	29.25	-	-	0-360	101	V
4	288	62.92	Pk	13.3	-29.9	46.32	-	-	0-360	101	H
5	312	52.71	Pk	13.8	-29.7	36.81	-	-	0-360	101	H
6	336	58.29	Pk	13.9	-29.7	42.49	-	-	0-360	101	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (ANT2, HIGH CHANNEL)



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
3	*240	58.35	Qp	11.5	-30	39.85	46.02	-6.17	8	127	H
1	46.83	52.14	Pk	9.4	-31.4	30.14	-	-	0-360	101	V
2	143.985	48.41	Pk	13.1	-30.5	31.01	-	-	0-360	101	V
4	288	63.07	Pk	13.3	-29.9	46.47	-	-	0-360	101	H
5	312	54.09	Pk	13.8	-29.7	38.19	-	-	0-360	101	H
6	336	58.49	Pk	13.9	-29.7	42.69	-	-	0-360	101	H

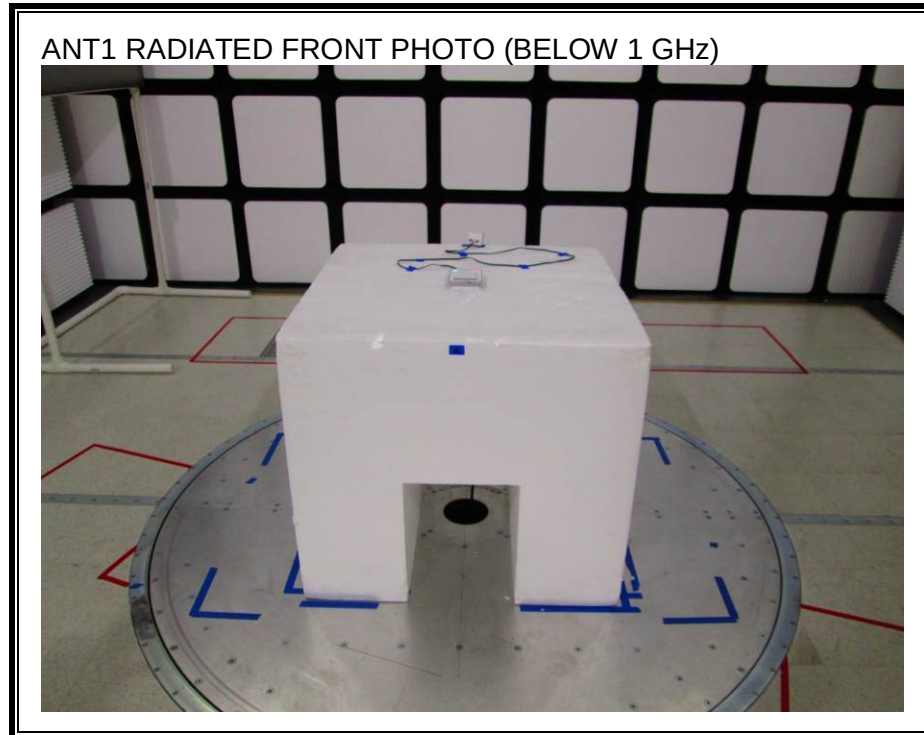
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

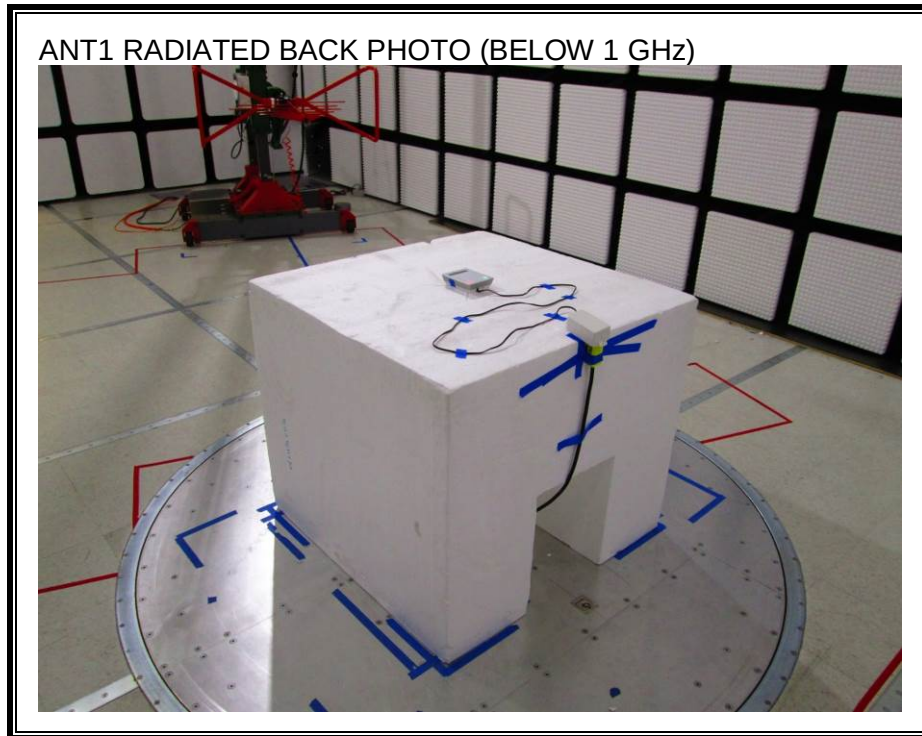
Pk - Peak detector

Qp - Quasi-Peak detector

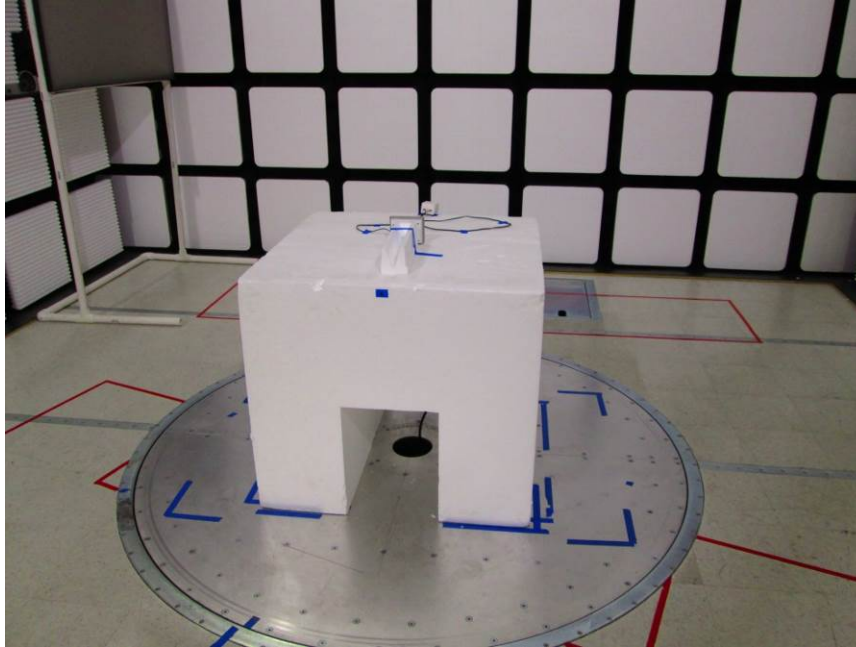
9. SETUP PHOTOS

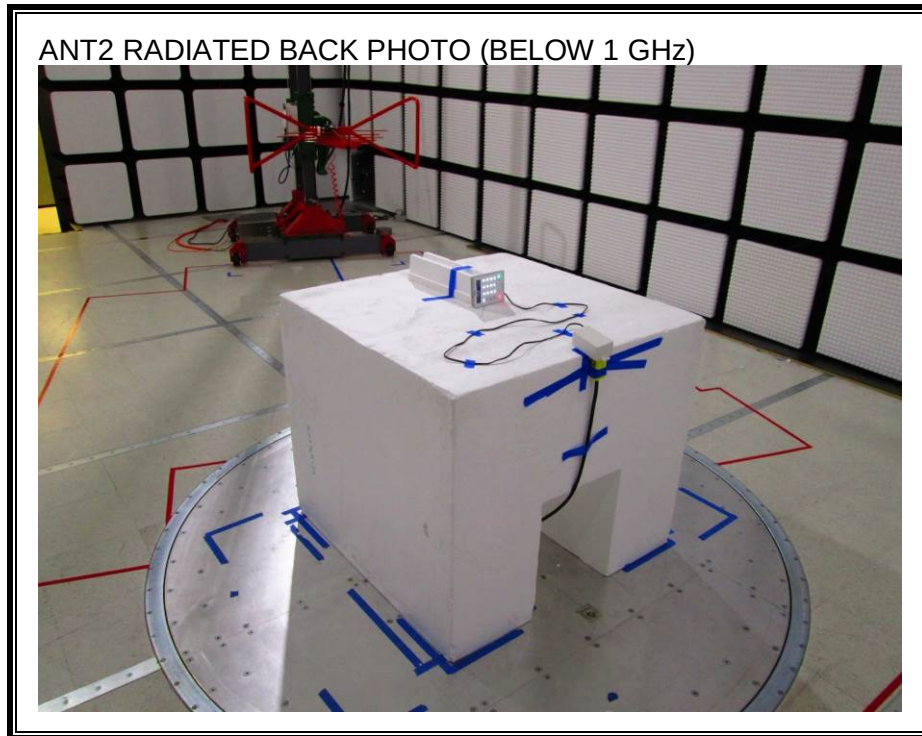
RADIATED RF MEASUREMENT SETUP (BELOW 1 GHz)





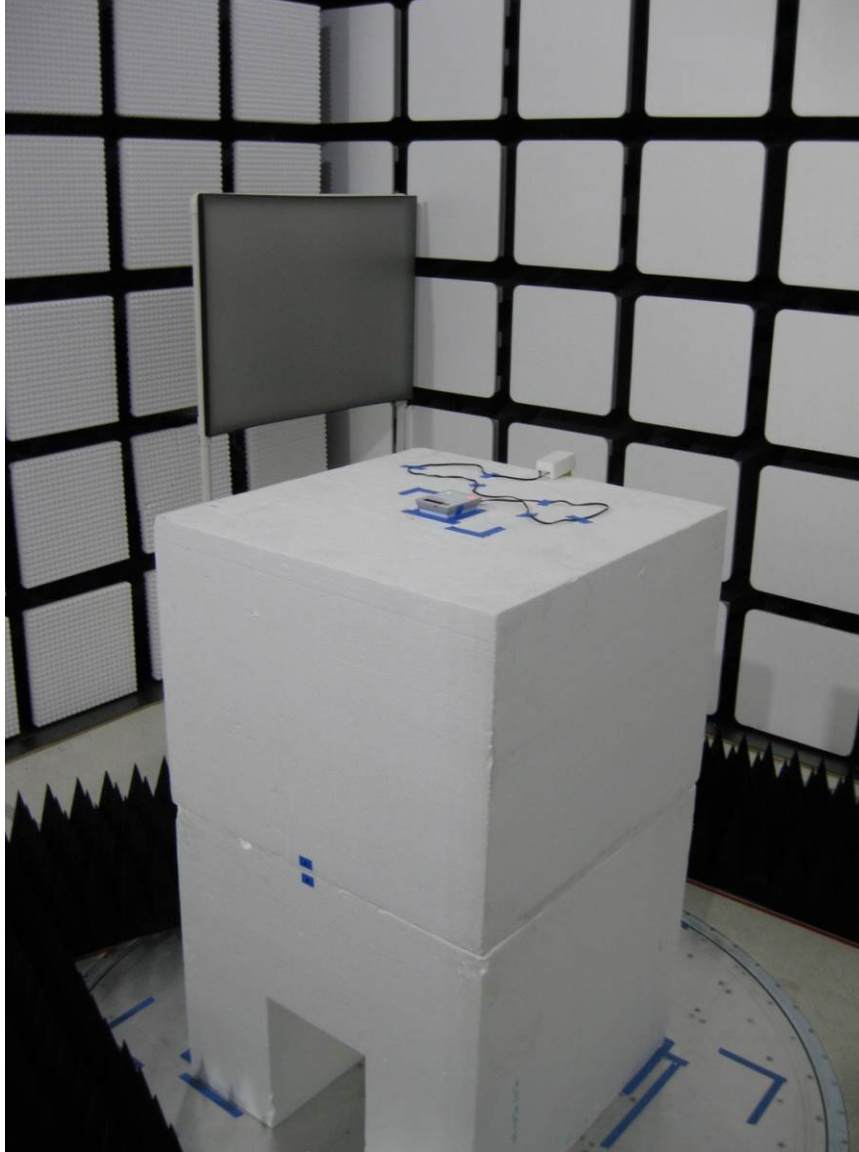
ANT2 RADIATED FRONT PHOTO (BELOW 1 GHz)

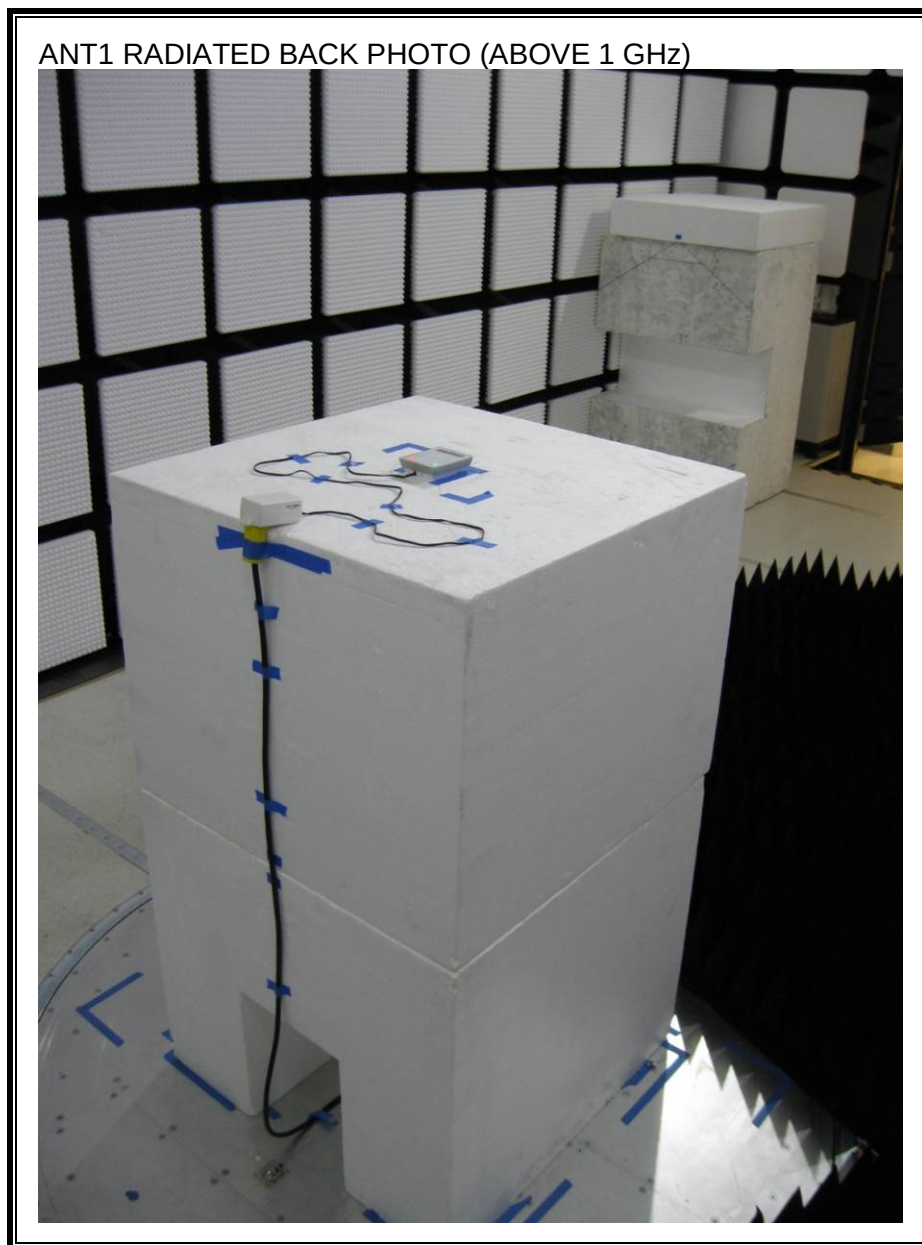




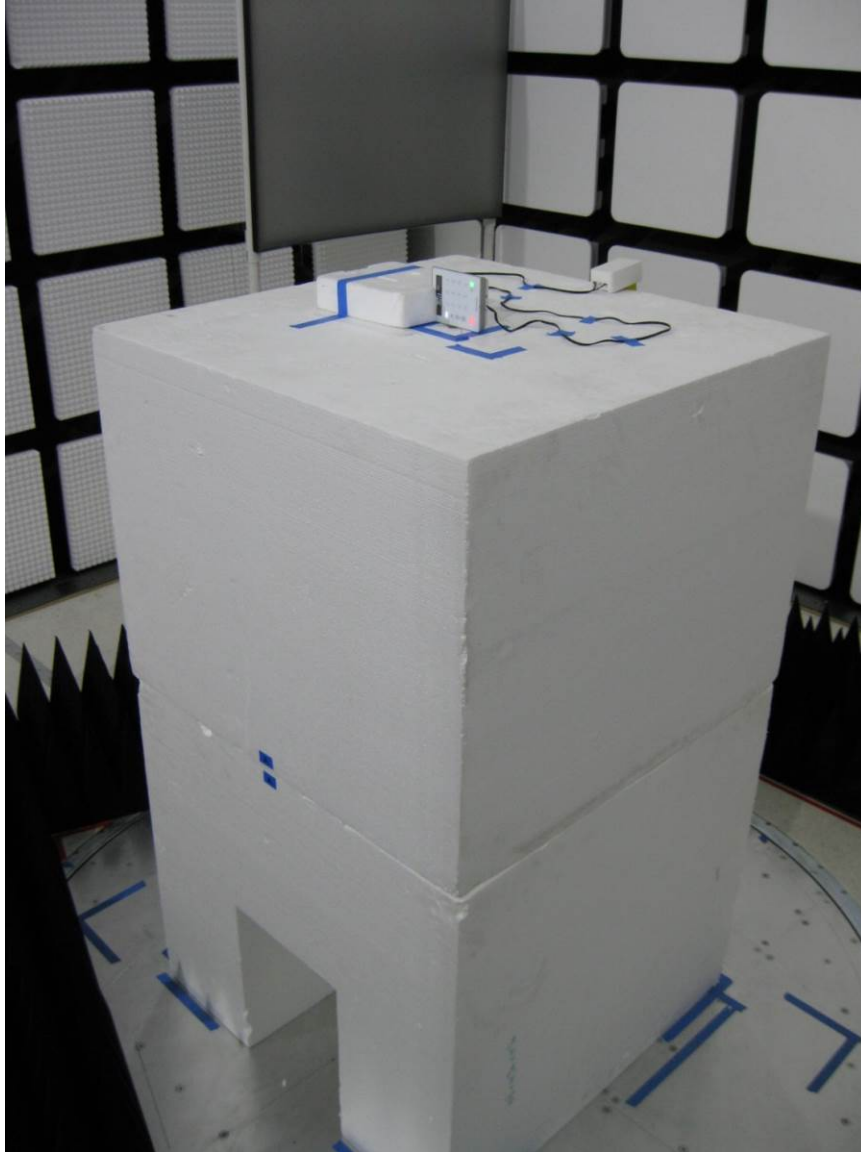
RADIATED RF MEASUREMENT SETUP (ABOVE 1 GHz)

ANT1 RADIATED FRONT PHOTO (ABOVE 1 GHz)



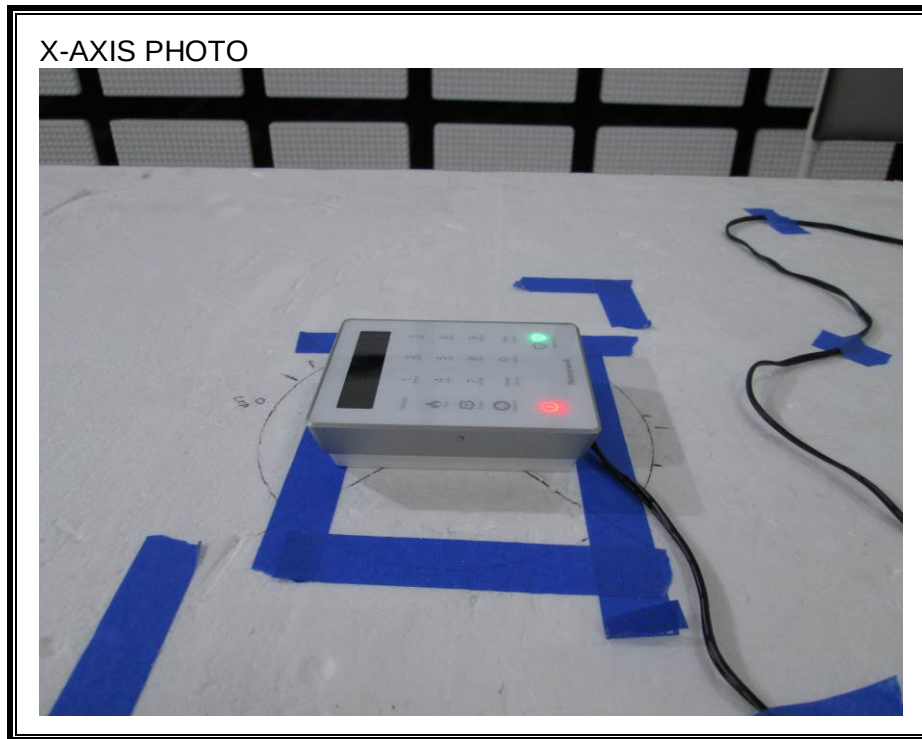


ANT2 RADIATED FRONT PHOTO (ABOVE 1 GHz)

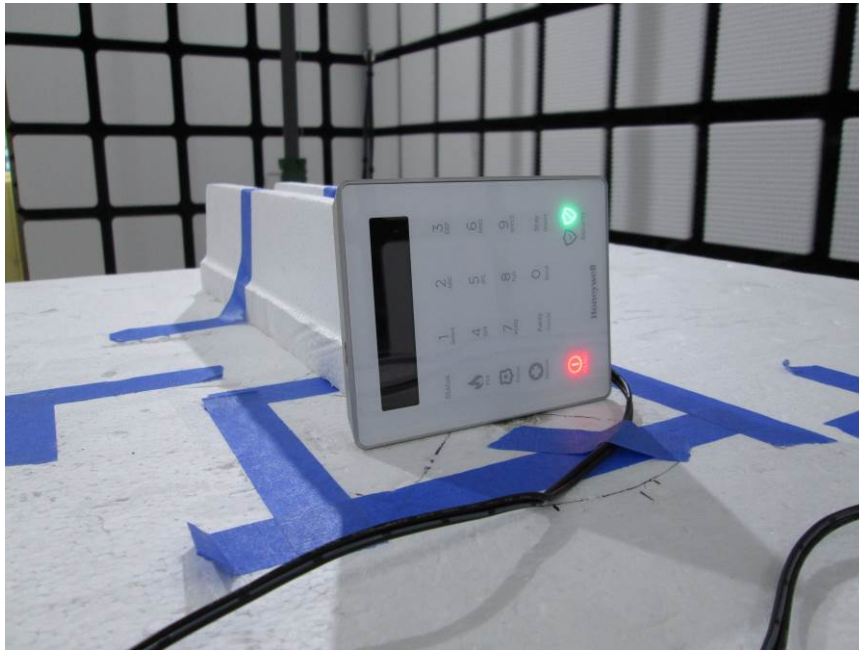




X,Y,Z ORIENTATION SETUP



Y-AXIS PHOTO



Z-AXIS PHOTO



END OF REPORT