FCC / IC Test Report

For

5800RP-AT

Report #: 727556

FCC ID: CFS8DL5800RP2
IC ID: 573F-5800RP2

Report Completion Date: 2017-10-23

Prepared by and for:
Honeywell International Inc.
2 Corporate Center Dr.
Suite 100 PO Box 9040
Melville, NY 11747

Testing
NVLAP Lab Code: 600110

Document Introduction

Honeywell tested the above equipment in accordance with the requirements set forth in the listed standards. All indications of Pass/Fail in the report are opinions expressed by Honeywell 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.

This document is a record of the FCC/IC Test Report for Honeywell products. It demonstrates the data required to be analyzed to certify a product according to the requirements of the FCC & IC.

The results in the report reflect only the model of the items under test unless noted otherwise. This document may not be altered or revised in any way unless done so my Honeywell and all revisions are duly noted in the revisions section. Any alterations of this document not carried out by Honeywell 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.

Test Report Revision History

Revision	Prepared By	Reviewed By	Revision Detail	Release Date
---	M. Antola	A. Roussin	Original Release	2017-10-23

Report Authorization

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Contents

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Applicable Test Standards

Test Standard	Result	Dates Tested
ANSI C63.10: 2013	Complaint	7/12/17-10/20/17
RSS-210, Issue 9	Complaint	7/12/17-10/20/17
RSS-GEN, Issue 4	Complaint	7/12/17-10/20/17
CFR 47 Part 15 Subpart C, Section 15.231	Complaint	7/12/17-10/20/17

Deviations from Test Methods

#	Deviation Description
	None

Facilities and Accreditation

The test site and measurement facility used to collect data are located at 2 Corporate Center Dr., Melville, NY 11747, USA. Honeywell International is accredited by NVLAP, Laboratory Code 600110-0. The full scope of accreditation can be viewed at the NVLAP website.

Test Item Description

The 5800RP-AT is a part of a wireless security system for burglary and fire alarm applications. The 5800RP-AT is mounted on a wall. The device operates on a single frequency for both transmitted and received messages. Any message originating from an authorized 5800 series security transmitter and received by the 5800RP-AT is then retransmitted immediately following completion of the originating message.

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Worse-Case Configuration & Mode
Radiated emissions was performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario. The EUT utilizes two (2) antennas and each was tested individually. See setup photos for details.

Test Sample Identification		
Sample ID Number	**Sample Serial Number**	**Date Received**
MEL-264	Non-serialized production unit	2017-05-17
MEL-362	Non-serialized production unit	2017-05-17

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Calibration & Measurement Uncertainty

- Measuring Instrument Calibration – The measuring equipment utilized to perform the tests documented in this report have been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

- 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)

  [i.e.] 37 dBuV/m = 30 dBuV + 18.5 dB/m + 0.5 dB – 12 dB

- Uncertainty - Figures are valid to a confidence level of 95%.

Test	Standard Uncertainty
Radiated Emissions (30-200MHz Horizontal)	+/- 5.05 dB
Radiated Emissions (30-200MHz Vertical)	+/- 5.28 dB
Radiated Emissions (200-1000MHz Horizontal)	+/- 10.21 dB
Radiated Emissions (200-1000MHz Vertical)	+/- 10.36 dB
Radiated Emissions (Above 1GHz)	+/- 9.70 dB

Opinions / Interpretations

None

Test Summary

All tests described below are required, unless otherwise noted. Notes should be described in detail in the "Additional notes" section.

#	Test Description	Status
1	Radiated Emissions (Intentional)	PASS

Radiated Emissions (Intentional Radiator)

Test Description

Intentional Radiator Radiated Emissions are a test of the emissions, and harmonics on the UUT. The UUT is positioned to get the maximum emissions after a series of prescan measurements.
The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz measurements and 1.5 m above the ground plane for above 1 GHz 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 the 10th harmonic of the fundamental is investigated with the transmitter set to the lowest, middle, and highest channels (where applicable) 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.

Test Criteria

Reference	Limit		
CFR 47 Subpart C, 15.231 RSS-210	**Fundamental Frequency (MHz)**	**Field strength of fundamental (uV/m) at 3M**	**Field strength of spurious emissions (uV/m) at 3M**
	40.66-40.70	2250	225
	70-130	1250	125
	130-174	[1]1250 to 3750	[1]125 to 375
	174-260	3750	375
	260-470	[1]3750 to 12500	[1]375 to 1250
	Above 470	12500	1250

[1]Linear interpolation

Reference	Limit		
CFR 47 Subpart C, 15.205 CFR 47 Subpart C, 15.209 RSS-GEN	**Frequency Range**	**Field Strength Limit (uV/m) at 3M**	**Field Strength Limit (dBuV/m) at 3M**
	30-88	100	40
	88-216	150	43.5
	216-960	200	46
	Above 960	500	54

Test Information

Tester	Test Location	Date	Temperature (°C)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL/JB	OATS	7/12/17, 8/10/17	21.7	67.0	1020	P
JB	OATS	10/20/17	16.7	52.0	1020	P

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Average correction factor calculation

An Average correction factor is calculated of -14.7dB (see calculations below).

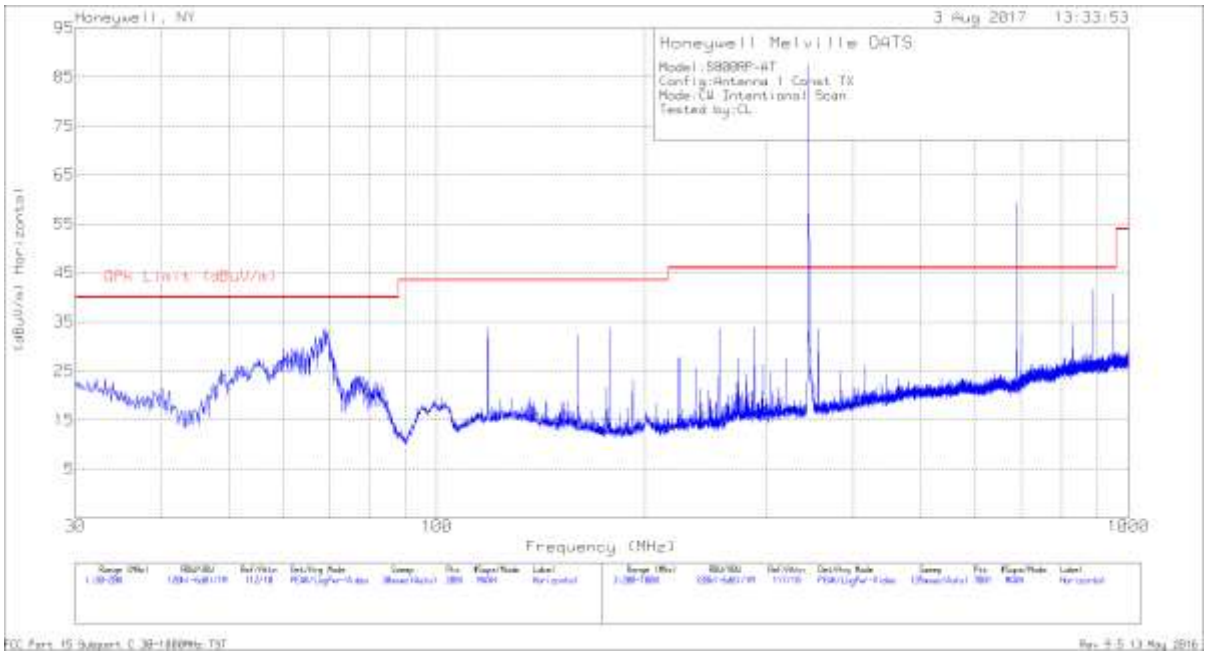
Data is Manchester-encoded and transmitted with a 272µs bit time.
The longest packet the device may transmit consists of: 13 ID/control bytes + 2 repeater bytes + 16 bit preamble = 136 bits
136 bits * 272 µs = 36.99 ms total transmission time for the message.
Multiplying this by 50% for Manchester yields 18.5ms on time.
Time between RF transmission packets is 100ms.
One RF transmission message consists of 6 identical packets back to back = 100ms * 6 = 600ms.
The worst case on time in 100ms window is thus 18.5ms.
This makes the average correction factor = 18.5ms/100ms = 18.5%, or -14.7dB.

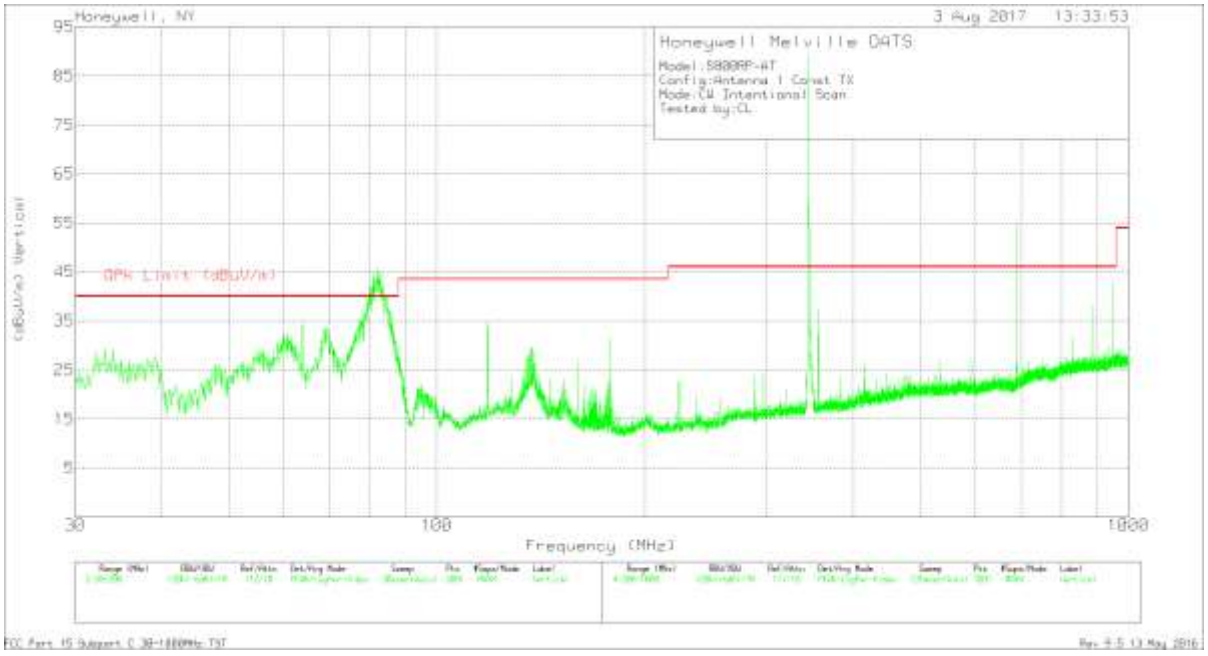
Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11545	103125	Rohde & Schwarz	FSW26	2017-02-14	2018-02-14
Bilog Antenna (30MHz-6GHz)	11534	A012816	Sunol	JB6	2017-03-09	2018-03-09
Horn Antenna (1-18GHz)	2973	3127	EMCO	RGA-60	2017-02-03	2018-02-03
Preamp (10-4200MHz)	11537	1603006	Mini Circuits	TVA-11-422	N/A	N/A
Preamp (100kHz-1.3GHz)	11540	2443AUF555	HP	8447D	N/A	N/A
Measurement Software	11543	Version 9.5	UL	UL EMC	N/A	N/A
Environmental Meter	11548	A078188	Extech Instruments	SD700	2017-04-24	2018-04-24

Test Results – Antenna 1

Below 1GHz - Plots





NOTE: Prescans performed in an anechoic chamber, final measurements performed on an OATS

Below 1GHz – Data

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	HP Preamp [dB]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
63.6613	32.77	Qp	12	-24.4	1.5	21.87	40	-18.13	287	115	V
82.0471	38.32	Qp	11.8	-24.4	1.7	27.42	40	-12.58	309	220	V
889.3876	22.1	Qp	26.9	-24.5	10.3	34.8	46.02	-11.22	236	368	H
948.5032	-11.67	Qp	27.4	-24.3	10.7	2.13	46.02	-43.89	338	134	H
948.5473	27.87	Qp	27.4	-24.3	10.7	41.67	46.02	-4.35	304	126	V

Qp - Quasi-Peak detector

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	HP Preamp [dB]	Cable 1 [dB]	DCF [dB]	Corrected Reading (dBuV/m)	15.231 Limit - Pk (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
344.938	63.21	Pk	19.2	-	3.7	-	86.11	97.3	-11.19	137	102	H
689.88	36.34	Pk	24.8	-	6.8	-	67.94	77.3	-9.36	307	116	H
344.938	68.61	Pk	19.2	-	3.7	-	91.51	97.3	-5.79	85	141	V
689.88	31.67	Pk	24.8	-	6.8	-	63.27	77.3	-14.03	286	101	V
Frequency (MHz)	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**HP Preamp [dB]**	**Cable 1 [dB]**	**DCF [dB]**	**Corrected Reading (dBuV/m)**	**15.231 Limit - Av (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
344.938	63.21	Pk	19.2	-	3.7	-14.7	71.41	77.3	-5.89	137	102	H
689.88	36.34	Pk	24.8	-	6.8	-14.7	53.24	57.3	-4.06	307	116	H
344.938	68.61	Pk	19.2	-	3.7	-14.7	76.81	77.3	-0.49	85	141	V
689.88	31.67	Pk	24.8	-	6.8	-14.7	48.57	57.3	-8.73	286	101	V

Pk - Peak detector

Average Reading = Pk + Duty Cycle Correction Factor (DCF)

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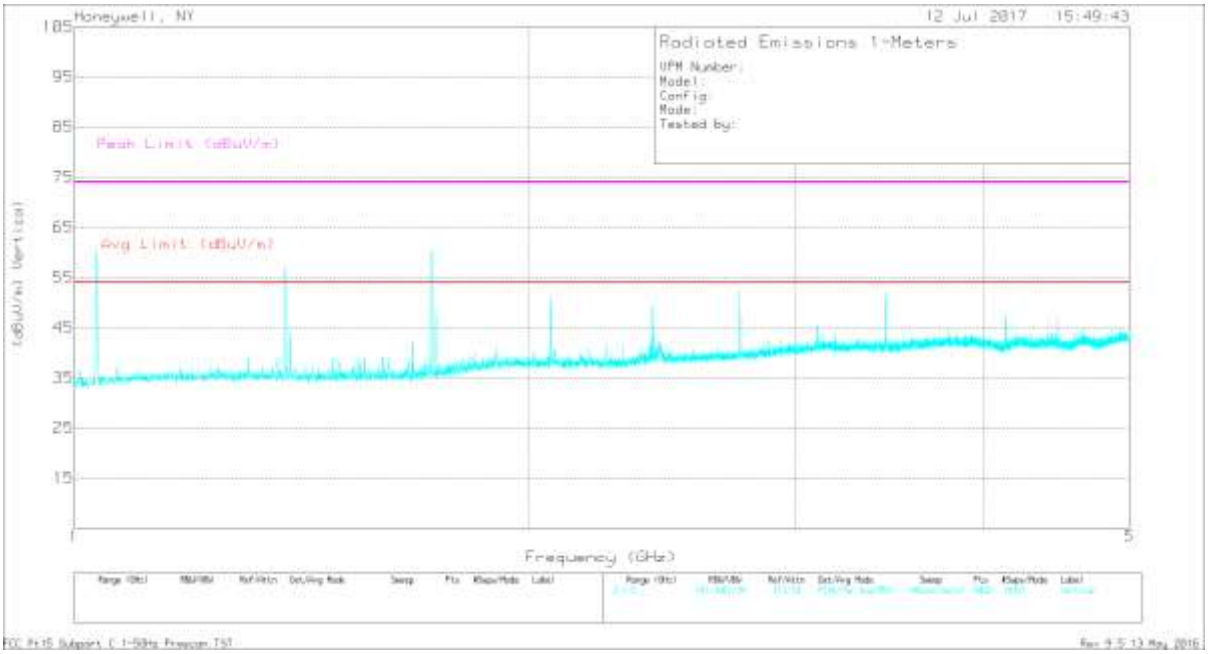
Above 1GHz - Plots



NOTE: Prescans performed in an anechoic chamber, final measurements performed on an OATS

Above 1GHz – Peak Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Preamp (dB)	SMA7 (dB)	SMA6 (dB)	Corrected Reading (dBuV/m)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.035	49.24	Pk	24.1	-26.7	1.7	0.8	49.14	74	-24.86	229	217	H
* 1.38	44.91	Pk	25.2	-26.7	2	0.9	46.31	74	-27.69	213	113	H
1.725	37.38	Pk	26.5	-26.8	2.2	1	40.28	77.3	-37.02	168	232	H
2.069	37	Pk	28	-27	2.4	1.1	41.5	77.3	-35.8	160	109	H
2.416	35.09	Pk	28.6	-27	2.6	1.1	40.39	77.3	-36.91	163	366	H
* 2.759	38.32	Pk	29.4	-27	2.8	1.2	44.72	74	-29.28	155	120	H
3.104	34.93	Pk	30.7	-27	3	1.3	42.93	77.3	-34.37	266	335	H
3.449	38.12	Pk	31.2	-27	3.1	1.4	46.82	77.3	-30.48	157	213	H
* 1.035	47.52	Pk	24.1	-26.7	1.7	0.8	47.42	74	-26.58	324	139	V
* 1.38	46.98	Pk	25.2	-26.7	2	0.9	48.38	74	-25.62	359	128	V
1.725	42.95	Pk	26.5	-26.8	2.2	1	45.85	77.3	-31.45	229	264	V
2.069	40.93	Pk	28	-27	2.4	1.1	45.43	77.3	-31.87	41	202	V
2.415	40.3	Pk	28.6	-27	2.6	1.1	45.6	77.3	-31.7	336	272	V
* 2.759	37.92	Pk	29.4	-27	2.8	1.2	44.32	74	-29.68	349	348	V
3.105	34.45	Pk	30.8	-27	3	1.3	42.55	77.3	-34.75	317	289	V
3.449	33.52	Pk	31.2	-27	3.1	1.4	42.22	77.3	-35.08	102	302	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

NOTE: 15.231 limit applied to all non-restricted band harmonics, 15.209 limit applied to all restricted band harmonics.

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Above 1GHz – Average Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Preamp (dB)	SMA7 (dB)	SMA6 (dB)	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
* 1.035	49.24	Pk	24.1	-26.7	1.7	0.8	-14.7	34.44	54	-19.56	229	217	H
* 1.38	44.91	Pk	25.2	-26.7	2	0.9	-14.7	31.61	54	-22.39	213	113	H
1.725	37.38	Pk	26.5	-26.8	2.2	1	-14.7	25.58	57.3	-31.72	168	232	H
2.069	37	Pk	28	-27	2.4	1.1	-14.7	26.8	57.3	-30.5	160	109	H
2.416	35.09	Pk	28.6	-27	2.6	1.1	-14.7	25.69	57.3	-31.61	163	366	H
* 2.759	38.32	Pk	29.4	-27	2.8	1.2	-14.7	30.02	54	-23.98	155	120	H
3.104	34.93	Pk	30.7	-27	3	1.3	-14.7	28.23	57.3	-29.07	266	335	H
3.449	38.12	Pk	31.2	-27	3.1	1.4	-14.7	32.12	57.3	-25.18	157	213	H
* 1.035	47.52	Pk	24.1	-26.7	1.7	0.8	-14.7	32.72	54	-21.28	324	139	V
* 1.38	46.98	Pk	25.2	-26.7	2	0.9	-14.7	33.68	54	-20.32	359	128	V
1.725	42.95	Pk	26.5	-26.8	2.2	1	-14.7	31.15	57.3	-26.15	229	264	V
2.069	40.93	Pk	28	-27	2.4	1.1	-14.7	30.73	57.3	-26.57	41	202	V
2.415	40.3	Pk	28.6	-27	2.6	1.1	-14.7	30.9	57.3	-26.4	336	272	V
* 2.759	37.92	Pk	29.4	-27	2.8	1.2	-14.7	29.62	54	-24.38	349	348	V
3.105	34.45	Pk	30.8	-27	3	1.3	-14.7	27.85	57.3	-29.45	317	289	V
3.449	33.52	Pk	31.2	-27	3.1	1.4	-14.7	27.52	57.3	-29.78	102	302	V

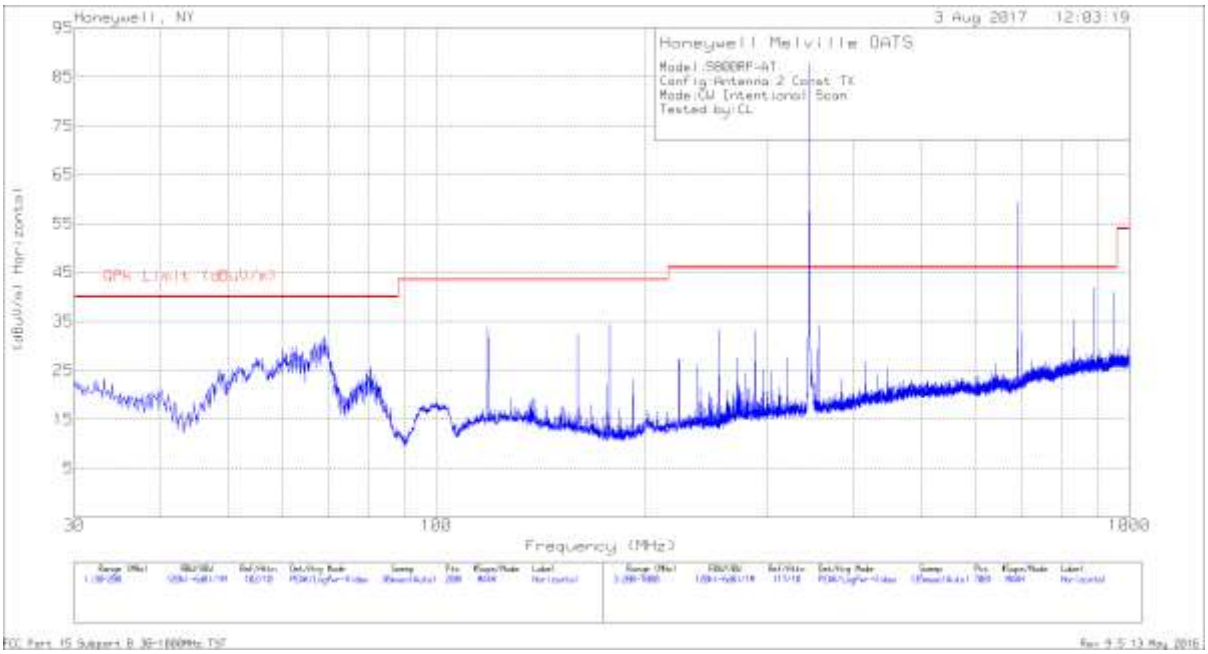
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

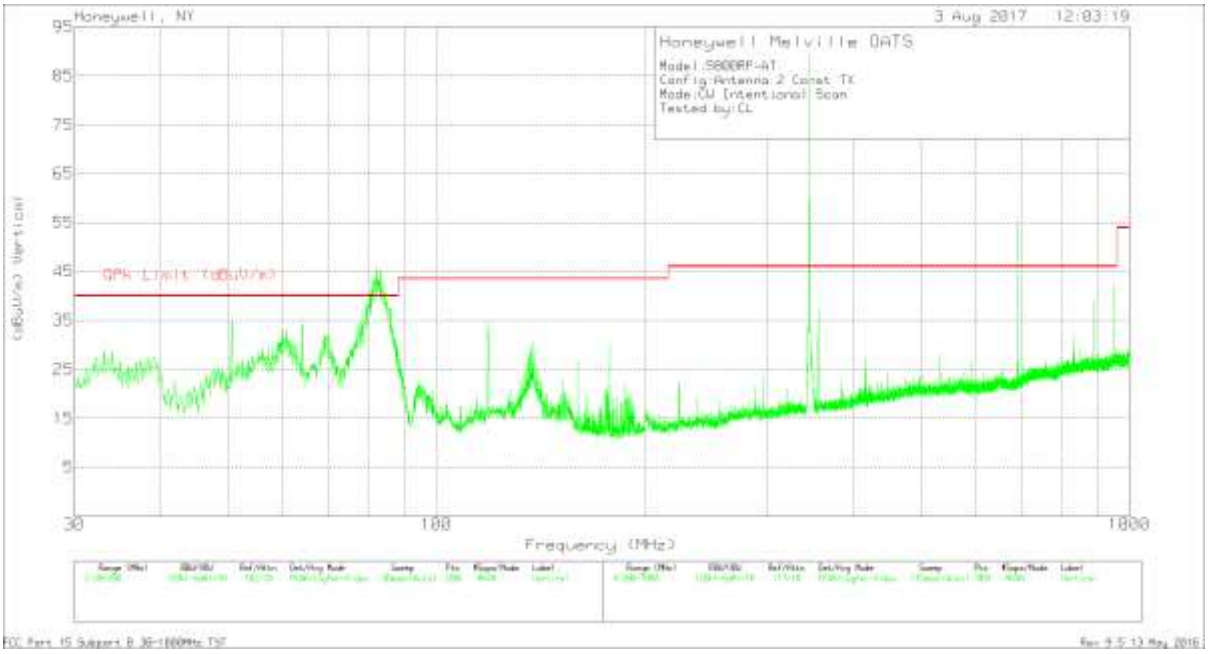
Average Reading = Pk + Duty Cycle Correction Factor (DCF)

NOTE: 15.231 limit applied to all non-restricted band harmonics, 15.209 limit applied to all restricted band harmonics.

Test Results – Antenna 2

Below 1GHz - Plots





NOTE: Prescans performed in an anechoic chamber, final measurements performed on an OATS

Below 1GHz – Data

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	HP Preamp [dB]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
67.1876	36.91	Qp	12.2	-24.4	1.6	26.31	40	-13.69	117	379	H
178.0037	21.41	Qp	15.8	-24.1	2.6	15.71	43.52	-27.81	16	326	H
50.6187	48.33	Qp	12.6	-24.4	1.4	37.93	40	-2.07	329	372	V
60.7442	29.68	Qp	11.9	-24.4	1.5	18.68	40	-21.32	74	160	V
63.904	32.04	Qp	12	-24.4	1.5	21.14	40	-18.86	80	112	V
68.7742	30.1	Qp	12.1	-24.4	1.6	19.4	40	-20.6	176	144	V
81.9095	39.2	Qp	11.8	-24.4	1.7	28.3	40	-11.7	140	175	V
* 118.5715	44.1	Qp	17.5	-24.3	2.1	39.4	43.52	-4.12	41	235	V
889.2008	20.6	Qp	26.9	-24.5	10.3	33.3	46.02	-12.72	340	357	H
948.5044	7.89	Qp	27.4	-24.3	10.7	21.69	46.02	-24.33	327	137	H
355.7043	42.66	Qp	19.5	-24.1	4.6	42.66	46.02	-3.36	33	134	V
889.4122	24.61	Qp	26.9	-24.5	10.2	37.21	46.02	-8.81	143	339	V
948.5493	31.84	Qp	27.4	-24.3	10.7	45.64	46.02	-.38	74	218	V

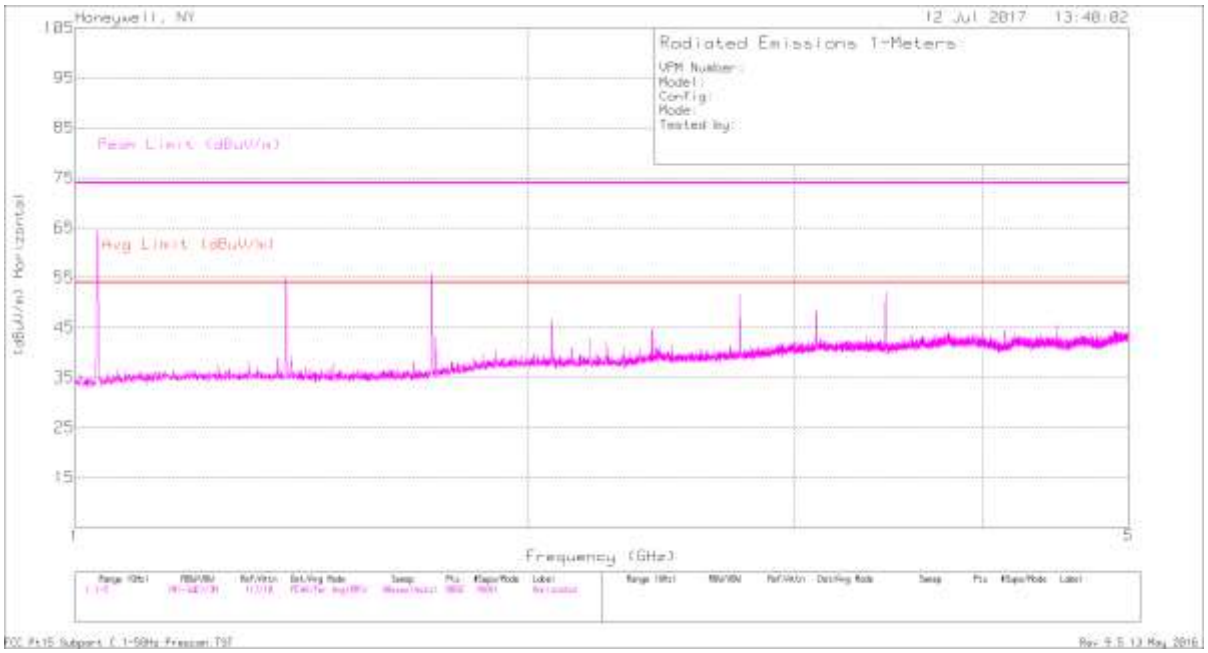
Qp – Quasi-Peak detector

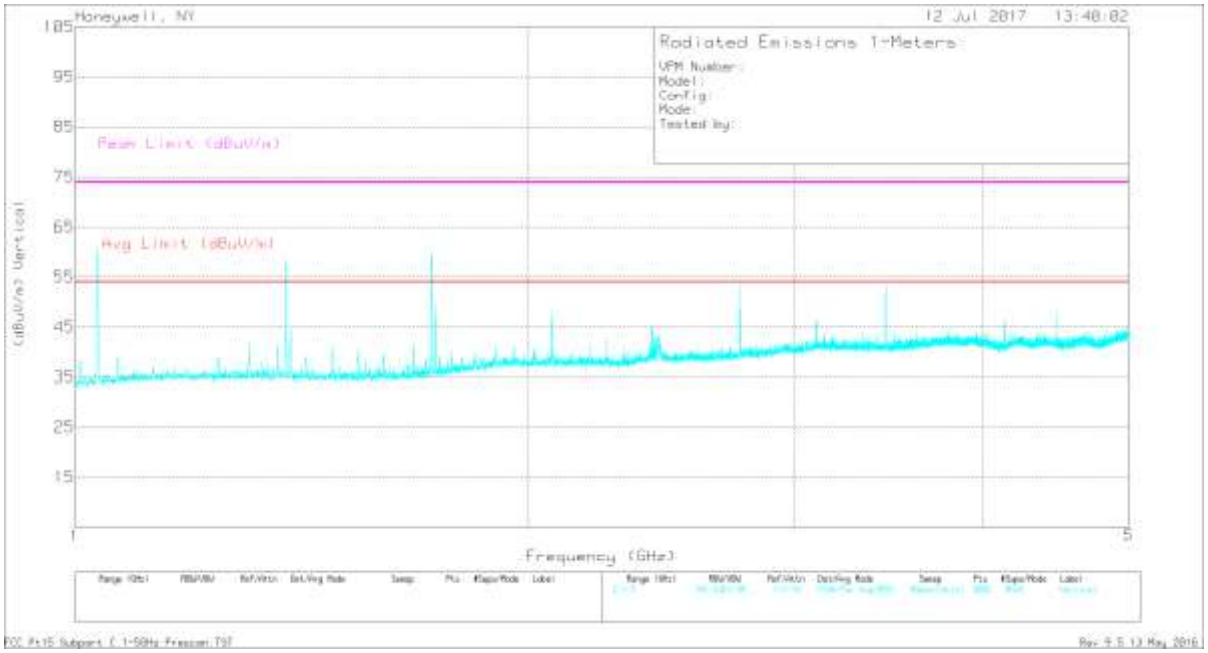
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	HP Preamp [dB]	Cable 1 [dB]	DCF [dB]	Corrected Reading (dBuV/m)	15.231 Limit - Pk (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
344.928	61.49	Pk	19.2	-	3.7	-	84.39	97.3	-12.91	40	102	H
689.86	35.67	Pk	24.8	-	6.8	-	67.27	77.3	-10.03	306	109	H
344.926	68.64	Pk	19.2	-	3.7	-	91.54	97.3	-5.76	226	132	V
689.854	31.66	Pk	24.8	-	6.8	-	63.26	77.3	-14.04	172	146	V
Frequency (MHz)	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**HP Preamp [dB]**	**Cable 1 [dB]**	**DCF [dB]**	**Corrected Reading (dBuV/m)**	**15.231 Limit - Av (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
344.938	61.49	Pk	19.2	-	3.7	-14.7	69.69	77.3	-7.61	40	102	H
689.88	35.67	Pk	24.8	-	6.8	-14.7	52.57	57.3	-4.73	306	109	H
344.938	68.64	Pk	19.2	-	3.7	-14.7	76.84	77.3	-0.46	226	132	V
689.88	31.66	Pk	24.8	-	6.8	-14.7	48.56	57.3	-8.74	172	146	V

Pk - Peak detector

Average Reading = Pk + Duty Cycle Correction Factor (DCF)

Above 1GHz - Plots





NOTE: Prescans performed in an anechoic chamber, final measurements performed on an OATS

Above 1GHz – Peak Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Preamp (dB)	SMA7 (dB)	SMA6 (dB)	Corrected Reading (dBuV/m)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.035	43.17	Pk	24.1	-26.7	1.7	0.8	43.07	74	-30.93	3	148	H
* 1.38	39.26	Pk	25.2	-26.7	2	0.9	40.66	74	-33.34	197	144	H
1.725	40.99	Pk	26.5	-26.8	2.2	1	43.89	77.3	-33.41	16	136	H
2.07	37.05	Pk	28	-27	2.4	1.1	41.55	77.3	-35.75	41	128	H
2.413	36.29	Pk	28.6	-27	2.6	1.1	41.59	77.3	-35.71	80	147	H
* 2.759	38.2	Pk	29.4	-27	2.8	1.2	44.6	74	-29.4	167	137	H
3.104	35.35	Pk	30.7	-27	3	1.3	43.35	77.3	-33.95	317	102	H
3.449	36.39	Pk	31.2	-27	3.1	1.4	45.09	77.3	-32.21	50	109	H
* 1.035	39.76	Pk	24.1	-26.7	1.7	0.8	39.66	74	-34.34	20	381	V
* 1.38	45.92	Pk	25.2	-26.7	2	0.9	47.32	74	-26.68	342	214	V
1.725	47.04	Pk	26.5	-26.8	2.2	1	49.94	77.3	-27.36	175	309	V
2.07	38.56	Pk	28	-27	2.4	1.1	43.06	77.3	-34.24	345	308	V
2.416	29.5	Pk	28.6	-27	2.6	1.1	34.8	77.3	-42.5	312	292	V
* 2.759	38.81	Pk	29.4	-27	2.8	1.2	45.21	74	-28.79	173	146	V
3.104	35.42	Pk	30.7	-27	3	1.3	43.42	77.3	-33.88	93	131	V
3.449	36.56	Pk	31.2	-27	3.1	1.4	45.26	77.3	-32.04	224	117	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

NOTE: 15.231 limit applied to all non-restricted band harmonics, 15.209 limit applied to all restricted band harmonics.

Above 1GHz – Average Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Preamp (dB)	SMA7 (dB)	SMA6 (dB)	DCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
* 1.035	43.17	Pk	24.1	-26.7	1.7	0.8	-14.7	28.37	54	-25.63	3	148	H
* 1.38	39.26	Pk	25.2	-26.7	2	0.9	-14.7	25.96	54	-28.04	197	144	H
1.725	40.99	Pk	26.5	-26.8	2.2	1	-14.7	29.19	57.3	-28.11	16	136	H
2.07	37.05	Pk	28	-27	2.4	1.1	-14.7	26.85	57.3	-30.45	41	128	H
2.413	36.29	Pk	28.6	-27	2.6	1.1	-14.7	26.89	57.3	-30.41	80	147	H
* 2.759	38.2	Pk	29.4	-27	2.8	1.2	-14.7	29.9	54	-24.1	167	137	H
3.104	35.35	Pk	30.7	-27	3	1.3	-14.7	28.65	57.3	-28.65	317	102	H
3.449	36.39	Pk	31.2	-27	3.1	1.4	-14.7	30.39	57.3	-26.91	50	109	H
* 1.035	39.76	Pk	24.1	-26.7	1.7	0.8	-14.7	24.96	54	-29.04	20	381	V
* 1.38	45.92	Pk	25.2	-26.7	2	0.9	-14.7	32.62	54	-21.38	342	214	V
1.725	47.04	Pk	26.5	-26.8	2.2	1	-14.7	35.24	57.3	-22.06	175	309	V
2.07	38.56	Pk	28	-27	2.4	1.1	-14.7	28.36	57.3	-28.94	345	308	V
2.416	29.5	Pk	28.6	-27	2.6	1.1	-14.7	20.1	57.3	-37.2	312	292	V
* 2.759	38.81	Pk	29.4	-27	2.8	1.2	-14.7	30.51	54	-23.49	173	146	V
3.104	35.42	Pk	30.7	-27	3	1.3	-14.7	28.72	57.3	-28.58	93	131	V
3.449	36.56	Pk	31.2	-27	3.1	1.4	-14.7	30.56	57.3	-26.74	224	117	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

Average Reading = Pk + Duty Cycle Correction Factor (DCF)

NOTE: 15.231 limit applied to all non-restricted band harmonics, 15.209 limit applied to all restricted band harmonics.

Setup Photos

Test Setup Photos – Radiated Emissions below 1GHz

Test Setup Photos – Radiated Emissions above 1GHz

END OF REPORT

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