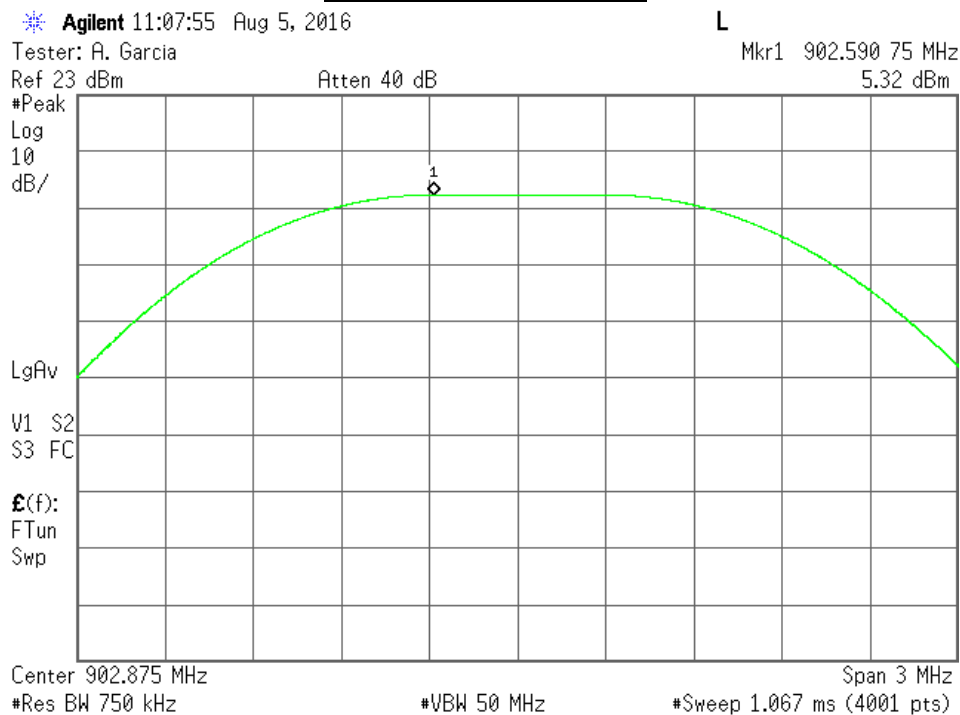
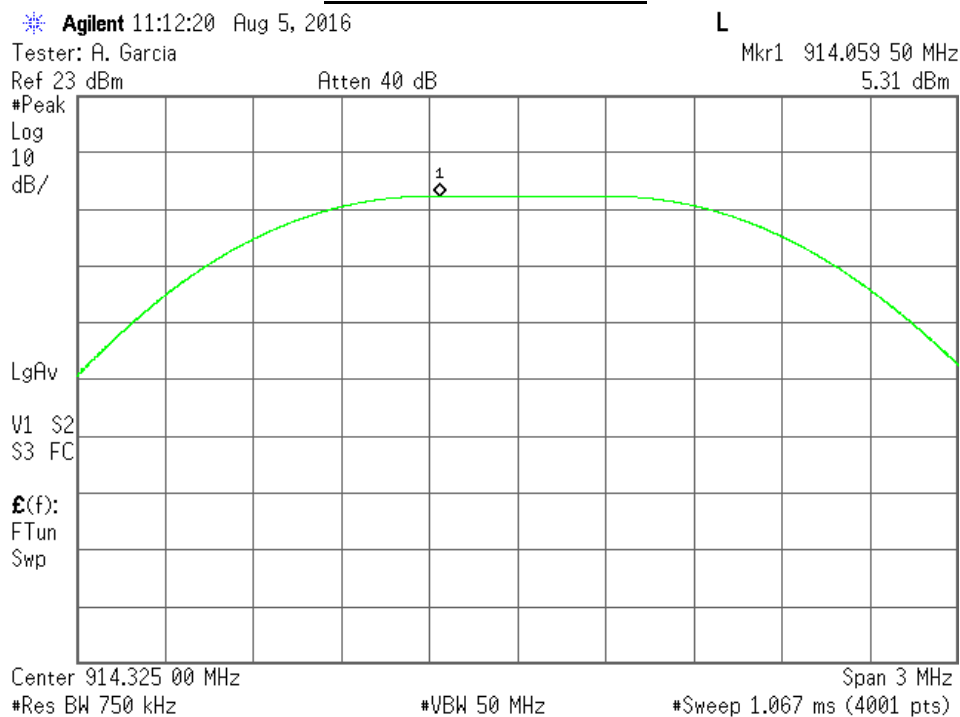


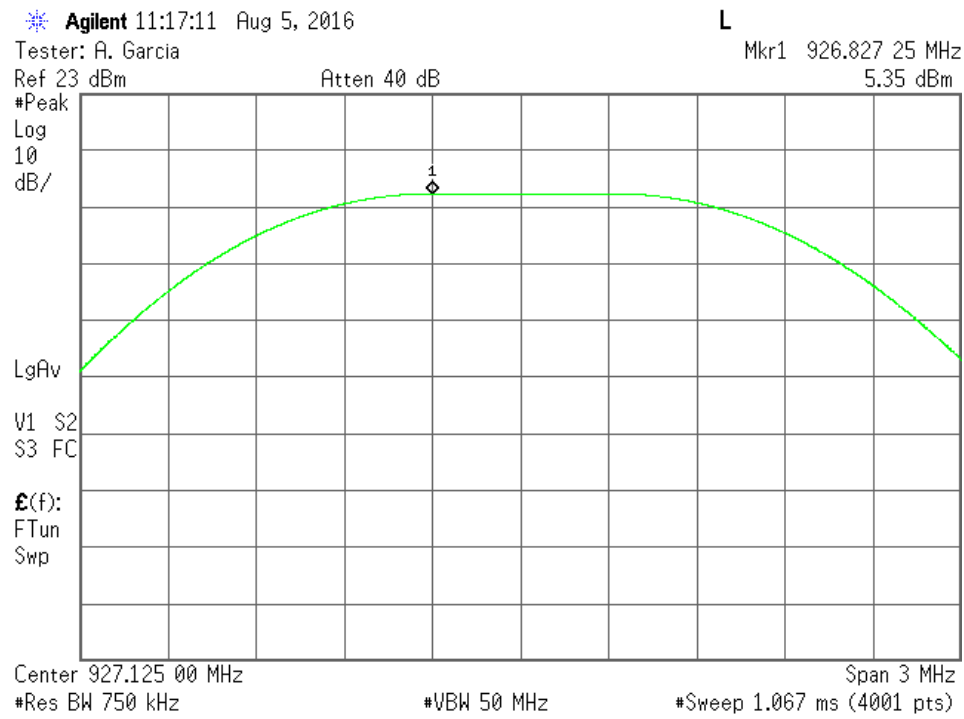
Antenna 3 Channel 1



Antenna 3 Channel 3



Antenna 3 Channel 6



TEST RESULT							
Antenna	Channel	Frequency	Measured Level	Cable + Attenuator	Corrected Reading	Limit	Result
#	#	MHz	dBm	dB	dBm	dBm	
1	1	902.875	5.47	6.5	11.97	≤30	Pass
1	3	914.325	5.44	6.5	11.94	≤30	Pass
1	6	927.125	5.42	6.5	11.92	≤30	Pass
2	1	902.875	5.20	6.5	11.52	≤30	Pass
2	3	914.325	5.01	6.5	11.51	≤30	Pass
2	6	927.125	4.76	6.5	11.26	≤30	Pass
3	1	902.875	5.32	6.5	11.82	≤30	Pass
3	3	914.325	5.31	6.5	11.81	≤30	Pass
3	6	927.125	5.35	6.5	11.85	≤30	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test Setup

3.3 MAXIMUM POWER SPECTRAL DENSITY

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2017-04-25	Temperature (°C)	23.6°C
Test End Date	2017-04-25	Humidity RH (%)	51.9%RH
Tested By	Michael Antola	Pressure (mbar)	NA
Input Voltage / Freq.	3.3 Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

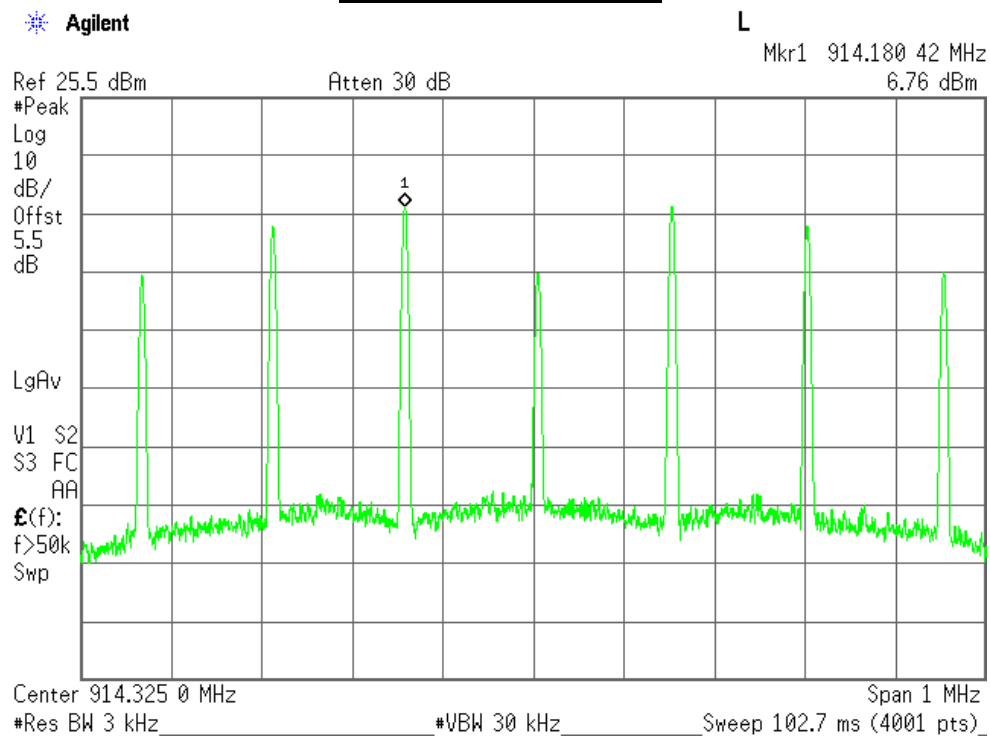
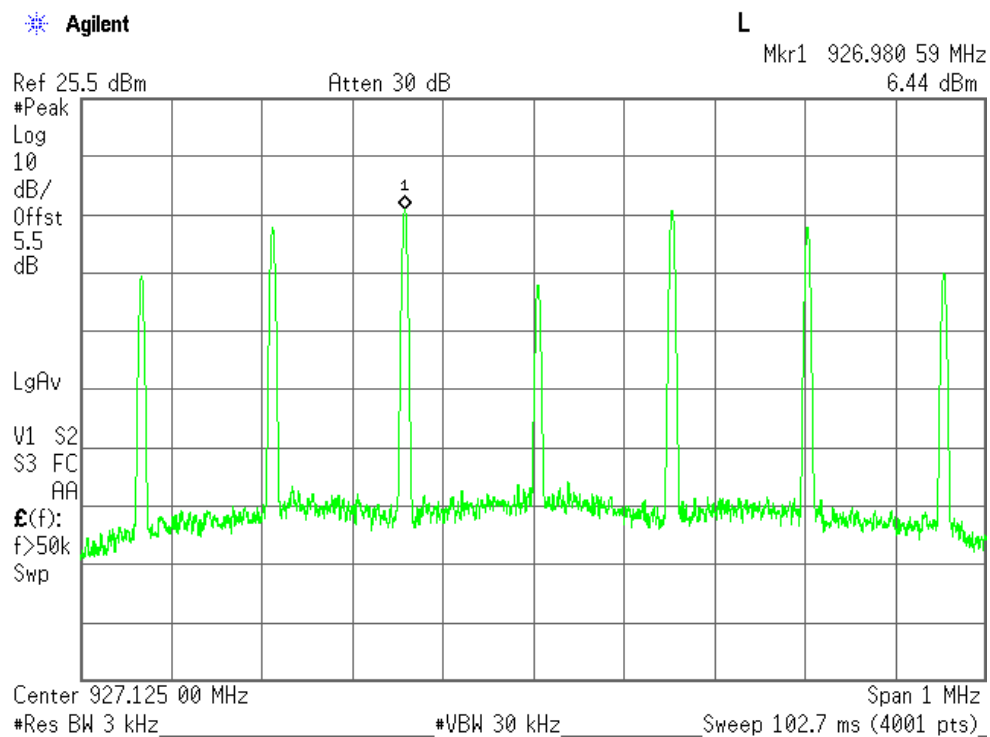
Method	Radiated ☐	Conducted ☒
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TEST PARAMETERS

Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	E4440A	MY41000078	2017-05-18
Y	RF Cable	Digikey	1	NA	NA

Antenna 2 Channel 3**Antenna 2 Channel 6**

TEST RESULT				
Channel	Freq	Measured Level	Limit	Result
#	MHz	dBm/3KHz	dBm/ 3KHz	
3	914.325	6.76	<8	Pass
6	927.125	6.44	<8	Pass
Note: RF Cable & Attenuator factor was added as an offset in the analyzer.				

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RFTest Setup

3.4 BAND-EDGE MEASUREMENTS

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2016-08-25	Temperature (°C)	23.6°C
Test End Date	2016-09-01	Humidity RH (%)	51.9%RH
Tested By	Arnoldo Garcia	Pressure (mbar)	NA
Input Voltage / Freq.	3.3 Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

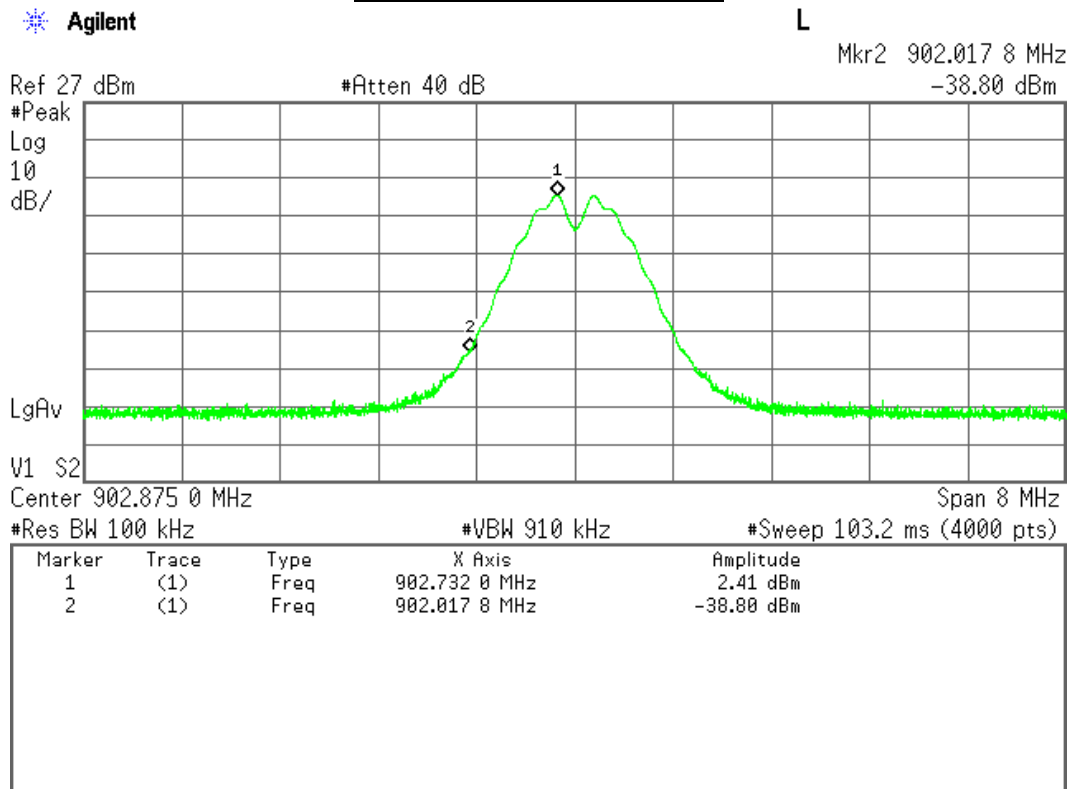
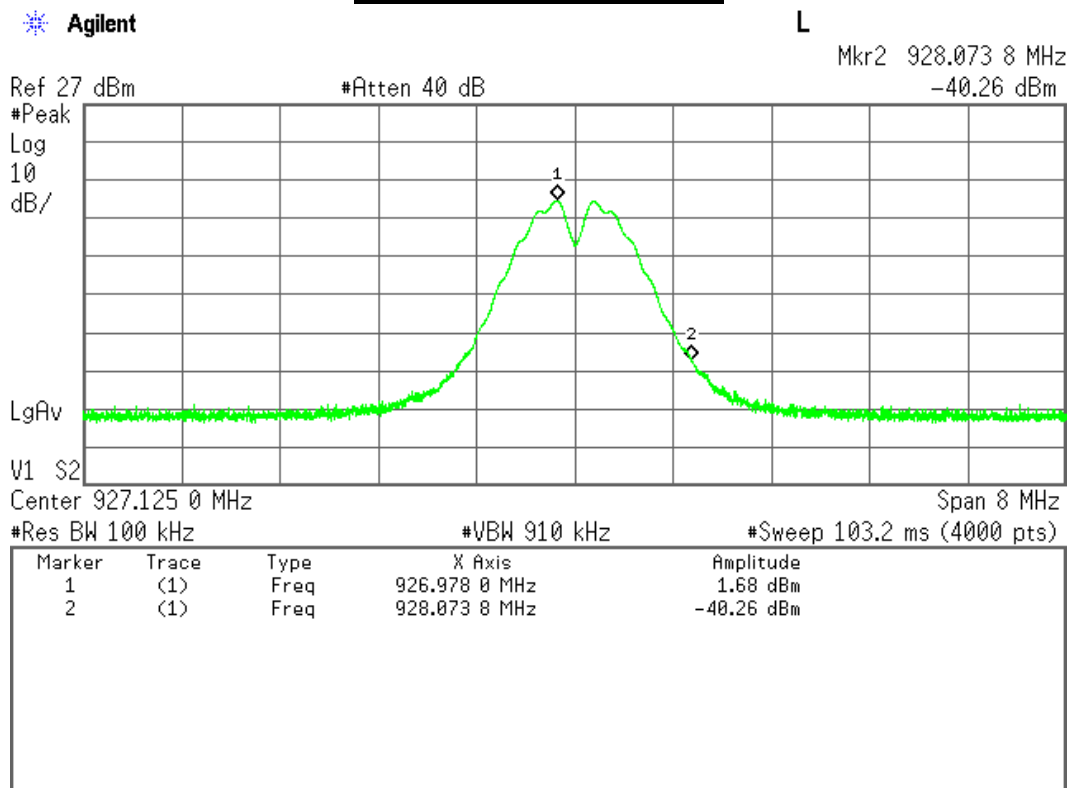
Method	Radiated ☐	Conducted ☒
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TEST PARAMETERS

Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	E4440A	MY41000078	2017-05-18
Y	RF Cable	Digikey	1	NA	NA

Antenna 2 Channel 1**Antenna 2 Channel 6**

TEST RESULT				
Channel	Frequency	Measured Level	Limit	Results
#	MHz	dB	dBc	
1	902.017	38.8	>20	Pass
6	928.073	40.26	>20	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test Setup

3.5 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2016-09-05	Temperature (°C)	0°C-35°C
Test End Date	2017-04-15	Humidity RH (%)	10%RH-90%RH
Tested By	Arnoldo Garcia/Jose Badia/Chris Locke	Pressure (mbar)	NR
Input Voltage / Freq.	3.3 Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.209:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

Method	Radiated ☒	Conducted ☐
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TEST PARAMETERS

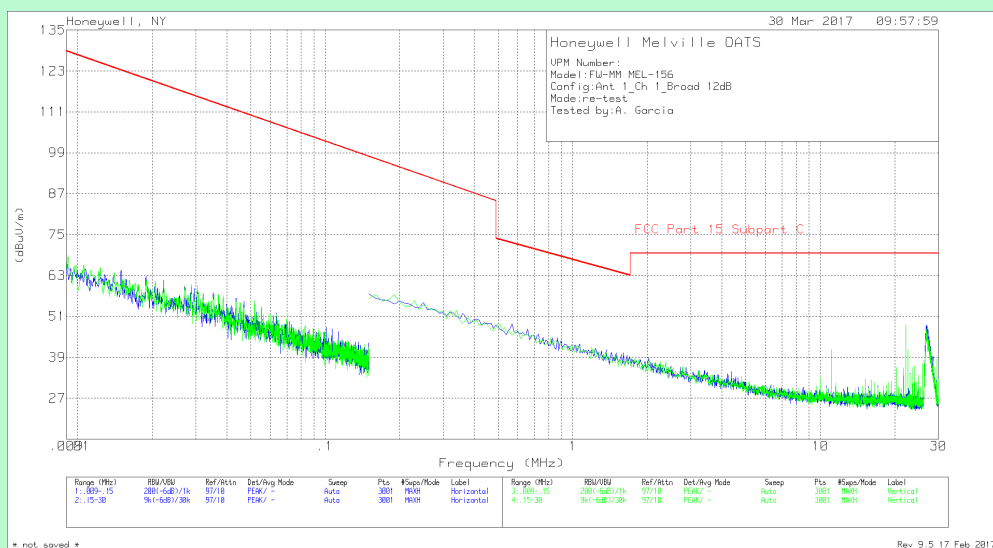
Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

TEST EQUIPMENT

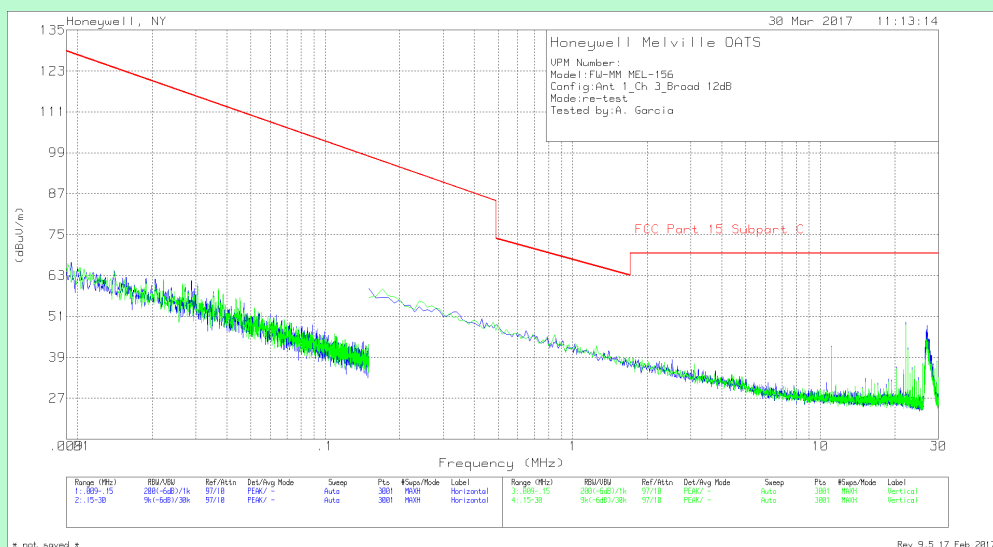
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Rohde & Schwarz	FSW26	103125	2018-02-14
Y	Spectrum Analyzer	Rohde & Schwarz	FSU26	100303	2017-03-31
Y	Bilog Antenna	Sunol	JB6	A012816	2018-03-09
Y	Bilog Antenna	Sunol	JB5	A022406	2017-12-18
Y	Horn Antenna	EMCO	RGA-60	3127	2017-02-03
Y	Preamplifier (Below 1GHz)	HP	8447D	2443AUF555	NA
Y	Preamplifier (Above 1GHz)	Amplicial	AMP1G18-35	160362	NA
Y	Active Loop Antenna	Com-Power	AL-130R	121080	2017-08-15

Note: Switch ON /OFF the Internal Preamplifier based on carrier level and or noise floor without overloading the receiver

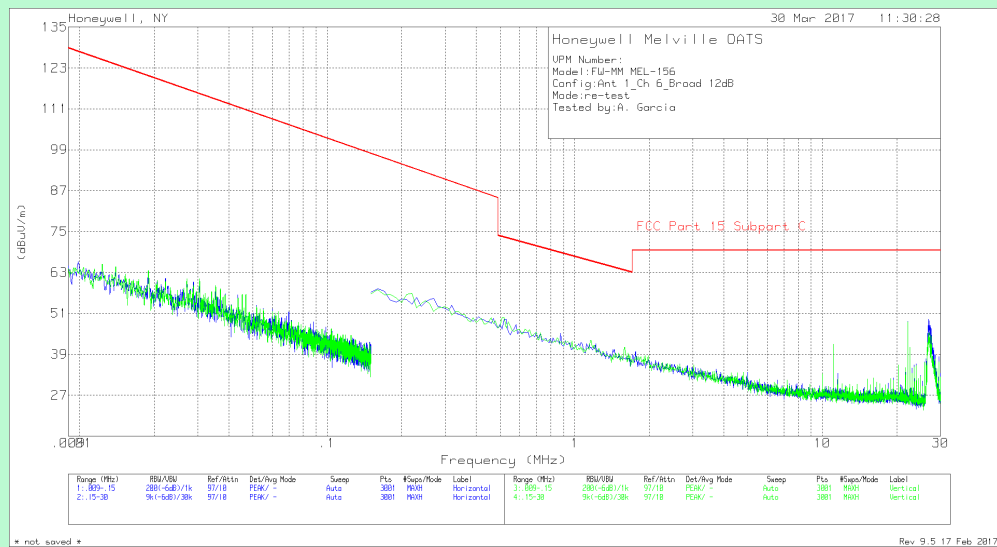
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 1)



Channel 1 (902.875 MHz) – Antenna 1



Channel 3 (914.325 MHz) – Antenna 1

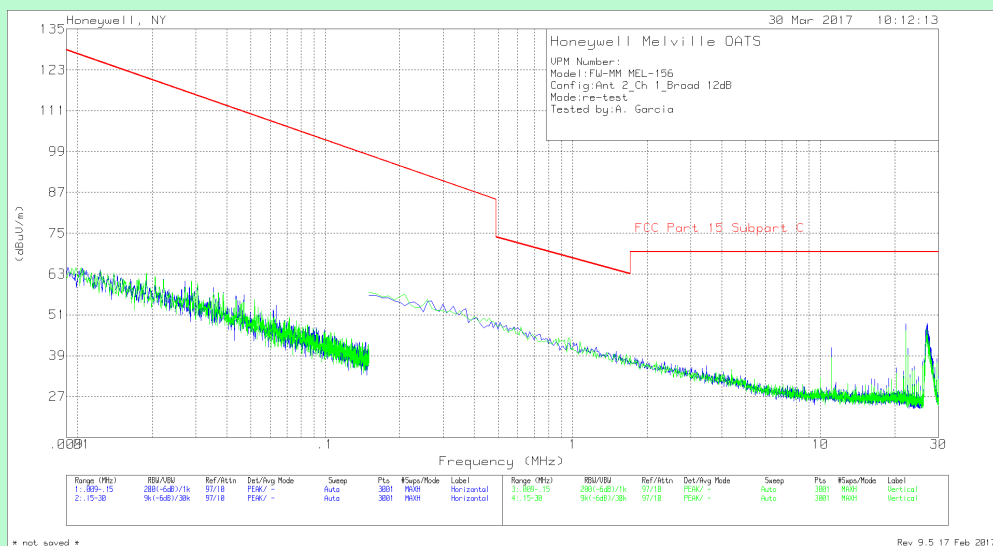


Channel 6 (927.125 MHz) – Antenna 1

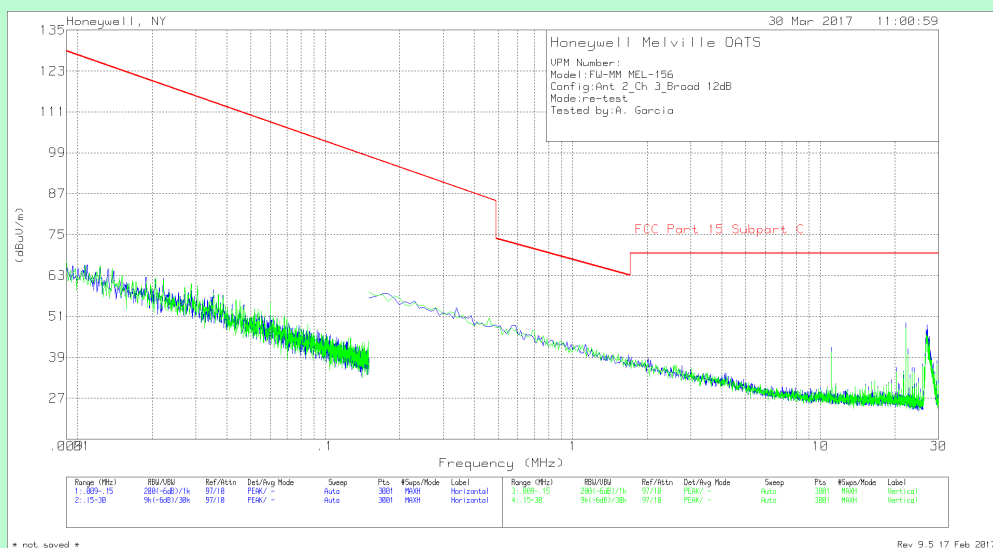
TEST RESULT – 9 KHz to 30 MHz

Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBμV/m	cm	Parallel / Perpendicular	deg	dB	dBμV/m	
No emissions detected that are a product of the transmitter. Emissions shown in the plot are related to the chamber ambient									
<u>Note :</u> Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

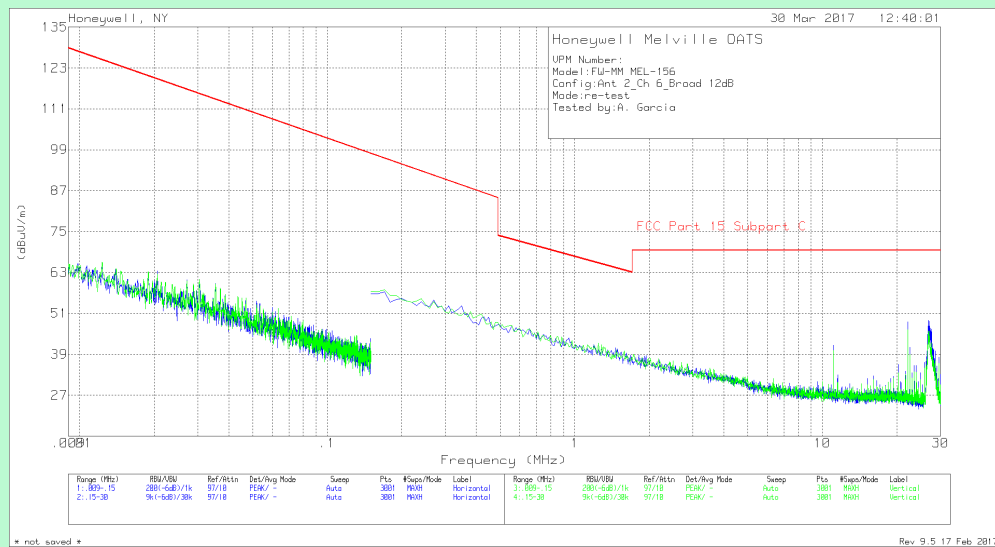
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 2)



Channel 1 (902.875 MHz) – Antenna 2



Channel 3 (914.325 MHz) – Antenna 2

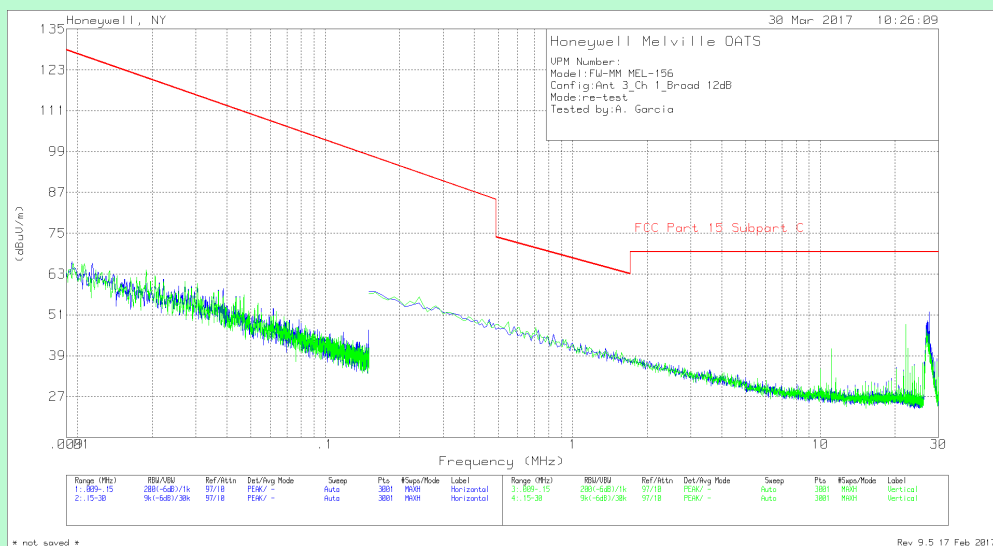


Channel 6 (927.125 MHz) – Antenna 2

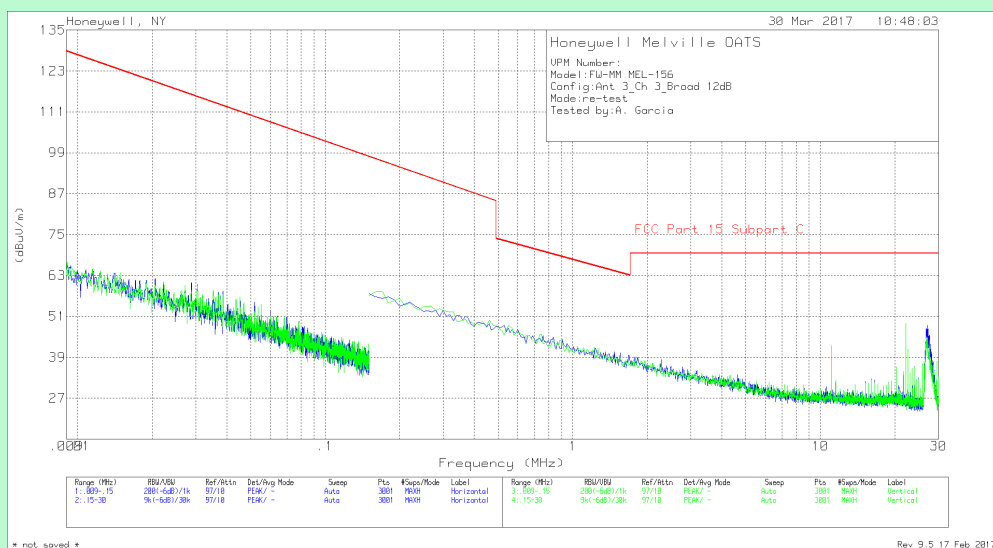
TEST RESULT – 9 KHz to 30 MHz

Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBμV/m	cm	Parallel / Perpendicular	deg	dB	dBμV/m	
No emissions detected that are a product of the transmitter. Emissions shown in the plot are related to the chamber ambient									
Note : Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

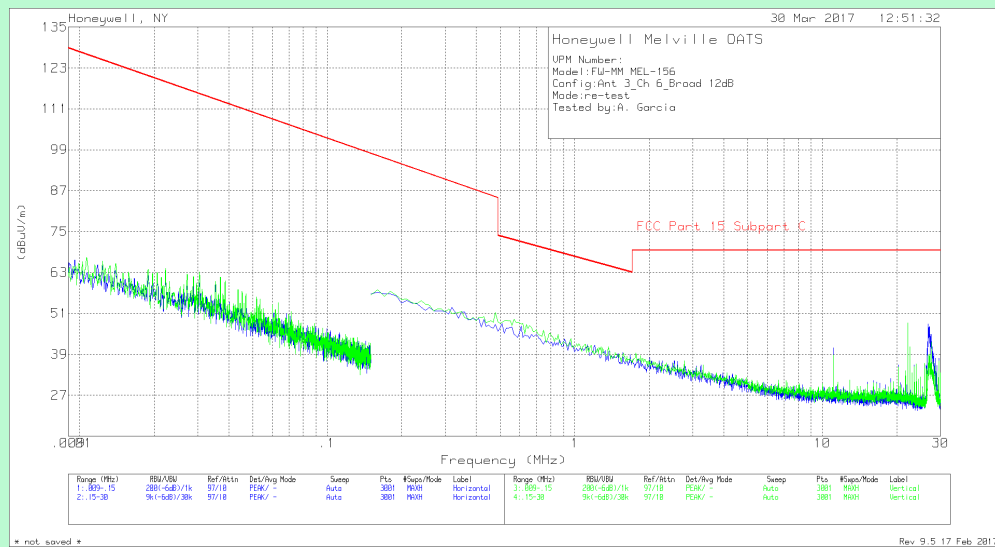
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 3)



Channel 1 (902.875 MHz) – Antenna 3



Channel 3 (914.325 MHz) – Antenna 3

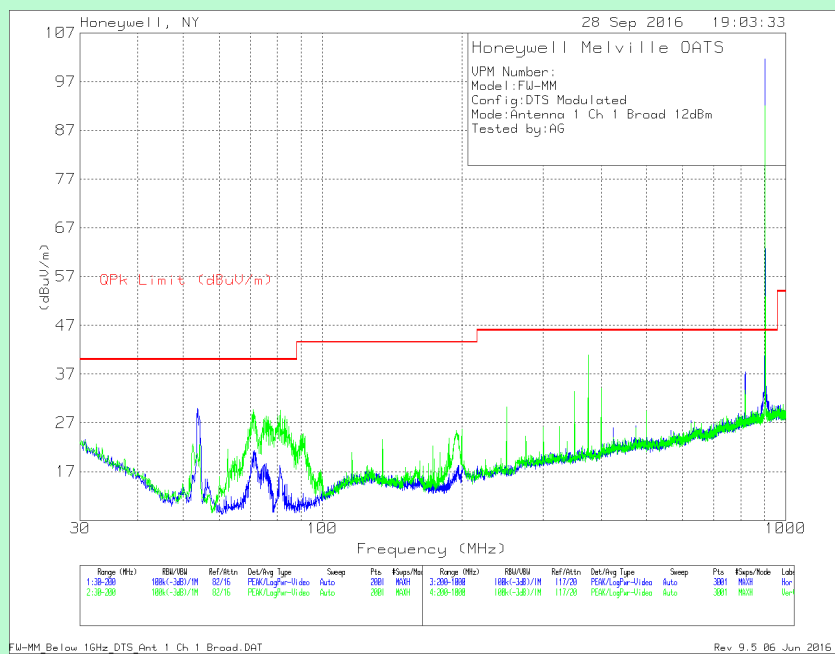


Channel 6 (927.125 MHz) – Antenna 3

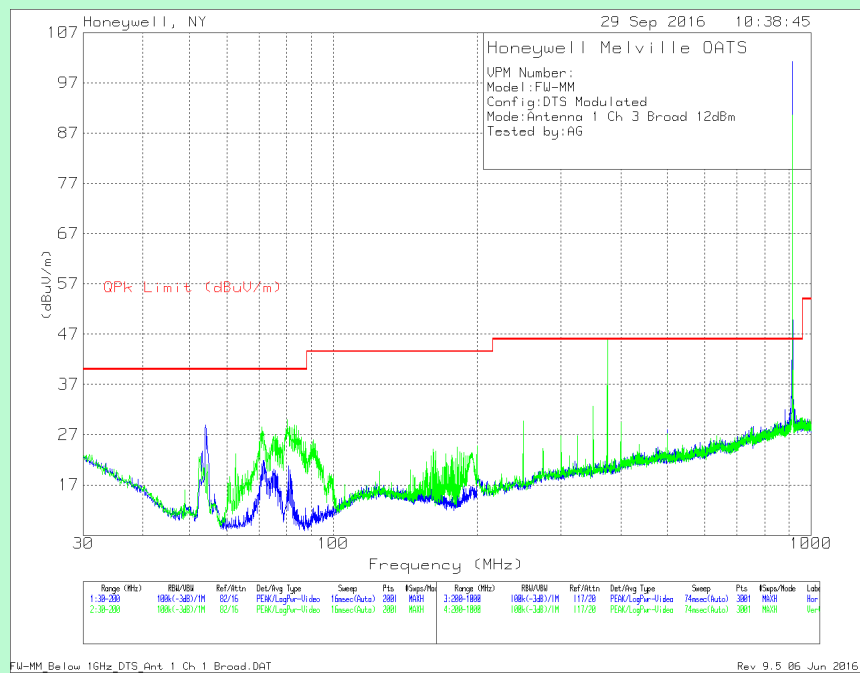
TEST RESULT – 9 KHz to 30 MHz

Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBμV/m	cm	Parallel / Perpendicular	deg	dB	dBμV/m	
No emissions detected that are a product of the transmitter. Emissions shown in the plot are related to the chamber ambient									
<u>Note :</u> Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

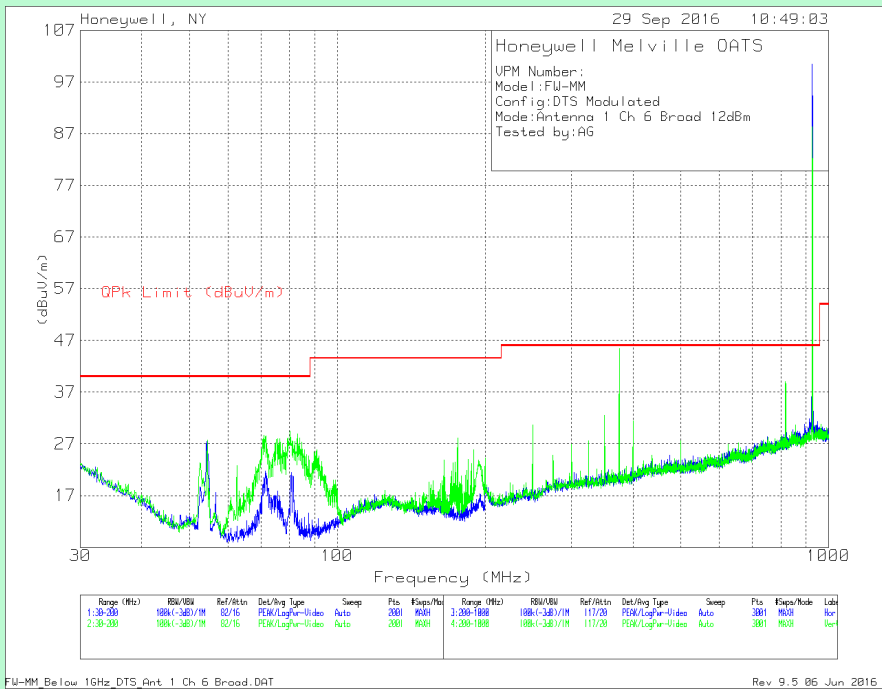
TEST GRAPHS – 30 MHz to 1GHz (ANTENNA 1)



Channel 1 (902.875 MHz) – Antenna 1



Channel 3 (914.325 MHz) – Antenna 1



Channel 6 (927.125 MHz) – Antenna 1

TEST RESULT – 30 MHz to 1 GHz

Channel 1											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
53.8552	36.52	Qp	12	-29	1.1	20.62	40	19.38	32	382	H
70.8244	41.08	Qp	12.2	-28.9	1.2	25.58	40	14.42	32	101	V
** 902.731	101.9	Pk	27	-27.6	5.5	106.8	-	-	38	100	H
374.8505	29.5	Qp	19.7	-28	3.1	24.3	46.02	21.72	131	271	H
818.1341	29.49	Qp	26.3	-27.9	5.2	33.09	46.02	12.93	296	209	H
** 902.727	93.05	Pk	27	-27.6	5.5	97.95	-	-	309	110	V
* 250.1334	30.06	Qp	16.3	-28	2.4	20.76	46.02	25.26	20	106	V
374.9336	29.7	Qp	19.7	-28	3.1	24.5	46.02	21.52	112	147	V
Channel 3											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.14	37.22	Qp	12	-29	1.1	21.32	40	18.68	168	366	H
70.97	40.48	Qp	12.2	-28.9	1.2	24.98	40	15.02	209	187	V
80.15	39.02	Qp	11.9	-28.9	1.3	23.32	40	16.68	339	232	V
** 914.181	99.49	Pk	27.3	-27.5	5.6	104.89	-	-	50	100	H
374.9336	29.62	Qp	19.7	-28	3.1	24.42	46.02	21.6	282	146	H
** 914.181	90.76	Pk	27.3	-27.5	5.6	96.16	-	-	261	110	V
350.1335	29.58	Qp	19.4	-27.9	2.9	23.98	46.02	22.04	278	142	V
374.9336	29.88	Qp	19.7	-28	3.1	24.68	46.02	21.34	165	167	V
Channel 6											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m] JB6 w/4dB pad	Pre Amp #1	RDE #1	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.225	38.39	Qp	12	-29	1.1	22.49	40	17.51	125	400	H
54.395	43.61	Qp	12	-29	1.1	27.71	40	12.29	65	283	V
80.15	39.52	Qp	11.9	-28.9	1.3	23.82	40	16.18	162	250	V
** 926.985	96.62	Pk	27.3	-27.5	5.7	102.12	-	-	40	100	H
374.9336	29.77	Qp	19.7	-28	3.1	24.57	46.02	21.45	104	126	H
** 926.985	89.5	Pk	27.3	-27.5	5.7	95	-	-	271	110	V
374.9336	29.94	Qp	19.7	-28	3.1	24.74	46.02	21.28	165	187	V
817.8674	31.09	Qp	26.3	-27.9	5.2	34.69	46.02	11.33	191	351	V

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

** - indicates intended frequency

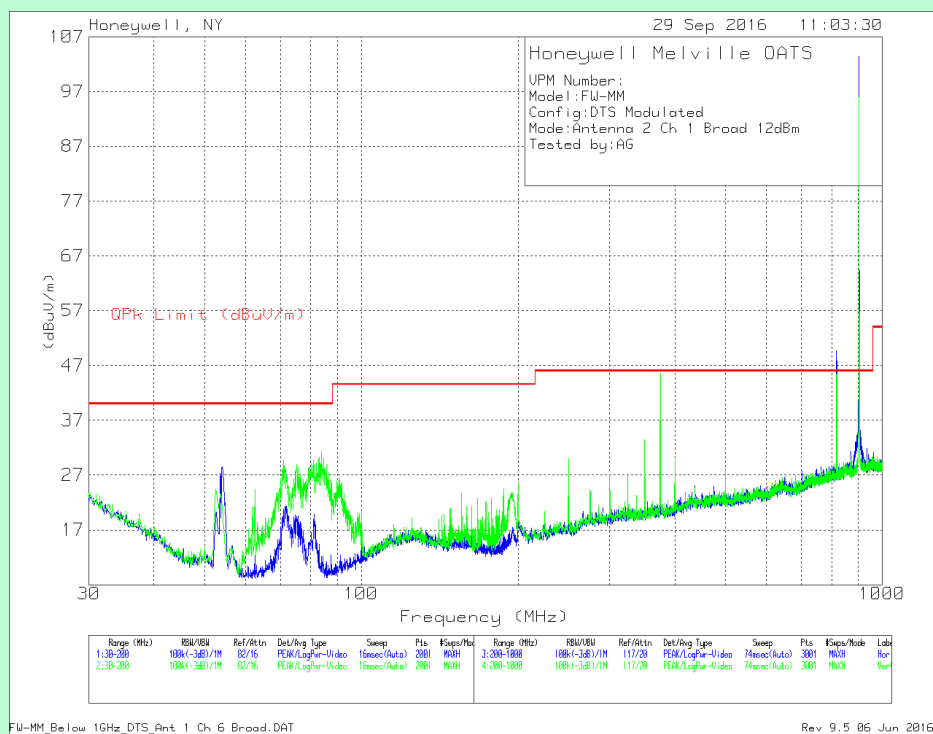
Pk - Peak detector

Qp - Quasi-Peak detector

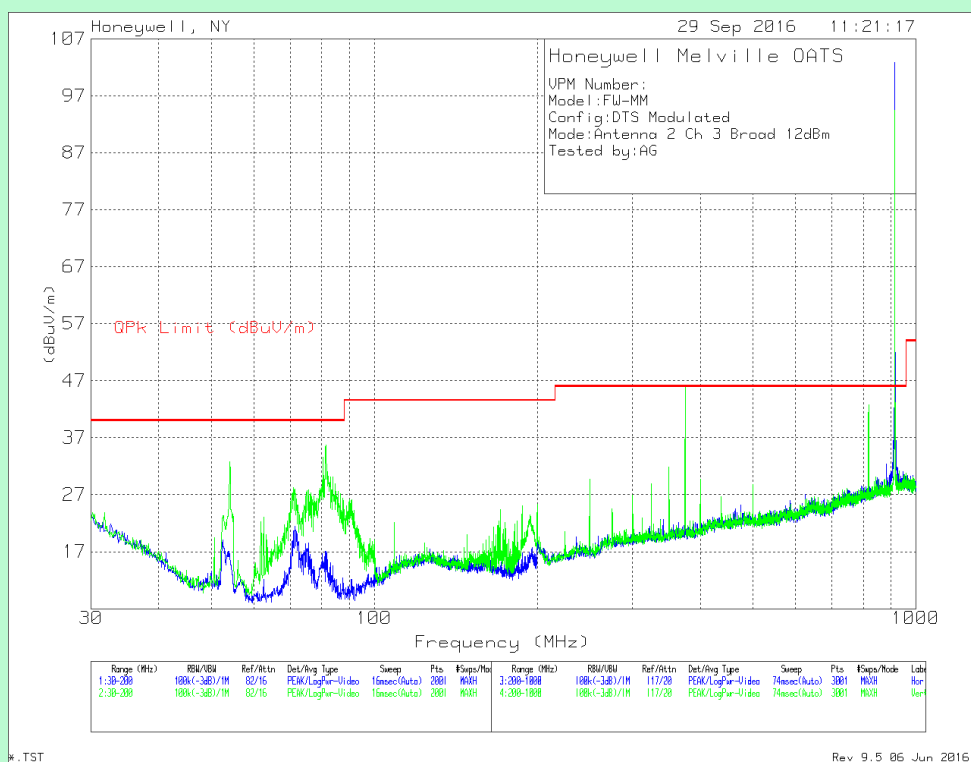
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

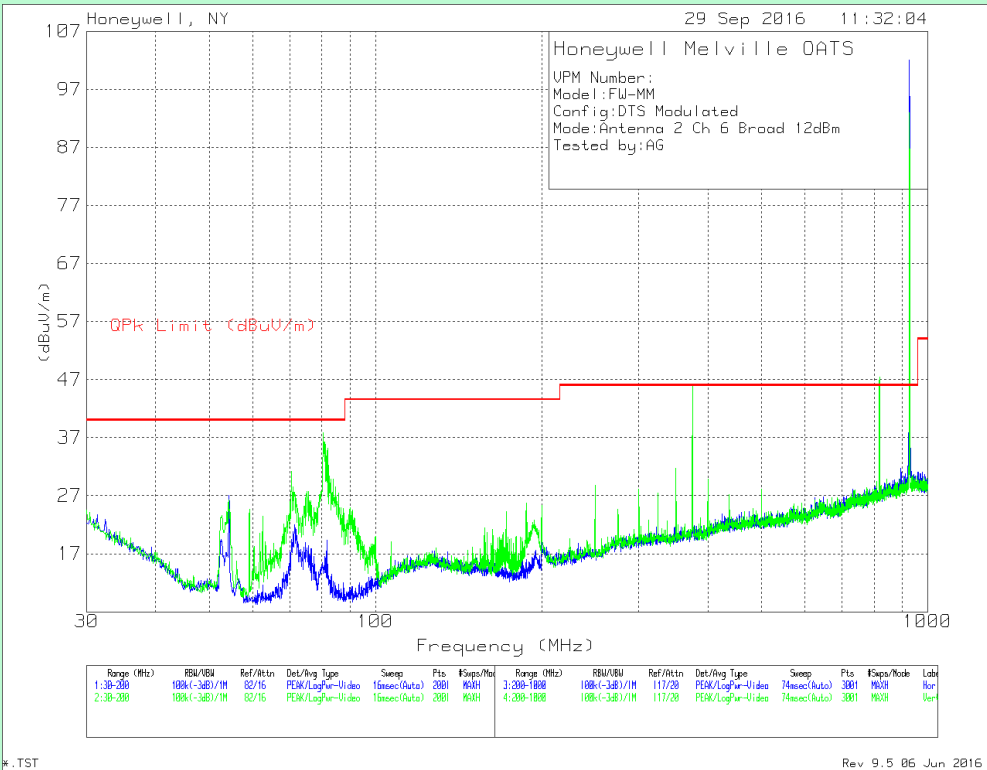
TEST GRAPHS – 30 MHz to 1GHz (ANTENNA 2)



Channel 1 (902.875 MHz) – Antenna 2



Channel 3 (914.325 MHz) – Antenna 2



Channel 6 (927.125 MHz) – Antenna 2

TEST RESULT – 30 MHz to 1 GHz

Channel 1											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.3161	45.89	Qp	12	-29	1.1	29.99	40	10.01	95	385	H
70.8238	40.31	Qp	12.2	-28.9	1.2	24.81	40	15.19	150	344	V
84.0167	38.88	Qp	11.7	-28.9	1.3	22.98	40	17.02	155	323	V
** 902.731	99.84	Pk	27	-27.6	5.5	104.74	-	-	192	157	H
374.9336	29.6	Qp	19.7	-28	3.1	24.4	46.02	21.62	236	274	H
817.6008	29.56	Qp	26.3	-27.9	5.2	33.16	46.02	12.86	138	297	H
** 902.7336	90.98	Pk	27	-27.6	5.5	95.88	-	-	282	152	V
374.9336	29.72	Qp	19.7	-28	3.1	24.52	46.02	21.5	285	344	V
817.8674	30.52	Qp	26.3	-27.9	5.2	34.12	46.02	11.9	194	238	V
Channel 3											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.14	44.67	Qp	12	-29	1.1	28.77	40	11.23	299	202	V
81.51	39.73	Qp	11.8	-28.9	1.3	23.93	40	16.07	339	148	V
** 914.181	100.25	Pk	27.3	-27.5	5.6	105.65	-	-	191	100	H
374.9336	29.68	Qp	19.7	-28	3.1	24.48	46.02	21.54	7	360	H
818.1341	29.93	Qp	26.3	-27.9	5.2	33.53	46.02	12.49	193	275	H
** 914.181	86.56	Pk	27.3	-27.5	5.6	91.96	-	-	107	161	V
374.9336	29.89	Qp	19.7	-28	3.1	24.69	46.02	21.33	55	164	V
818.1341	30.09	Qp	26.3	-27.9	5.2	33.69	46.02	12.33	86	316	V
Channel 6											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.31	45.04	Qp	12	-29	1.1	29.14	40	10.86	19	352	H
70.46	40.98	Qp	12.2	-28.9	1.2	25.48	40	14.52	240	113	V
80.405	39.66	Qp	11.9	-28.9	1.3	23.96	40	16.04	268	137	V
** 926.981	99.93	Pk	27.3	-27.5	5.7	105.43	-	-	201	100	H
374.9336	29.84	Qp	19.7	-28	3.1	24.64	46.02	21.38	85	273	H
818.1341	30.01	Qp	26.3	-27.9	5.2	33.61	46.02	12.41	25	183	H
** 926.985	88.77	Pk	27.3	-27.5	5.7	94.27	-	-	292	150	V
374.9336	29.89	Qp	19.7	-28	3.1	24.69	46.02	21.33	251	114	V
818.1341	30.82	Qp	26.3	-27.9	5.2	34.42	46.02	11.6	84	240	V

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

** - indicates intended frequency

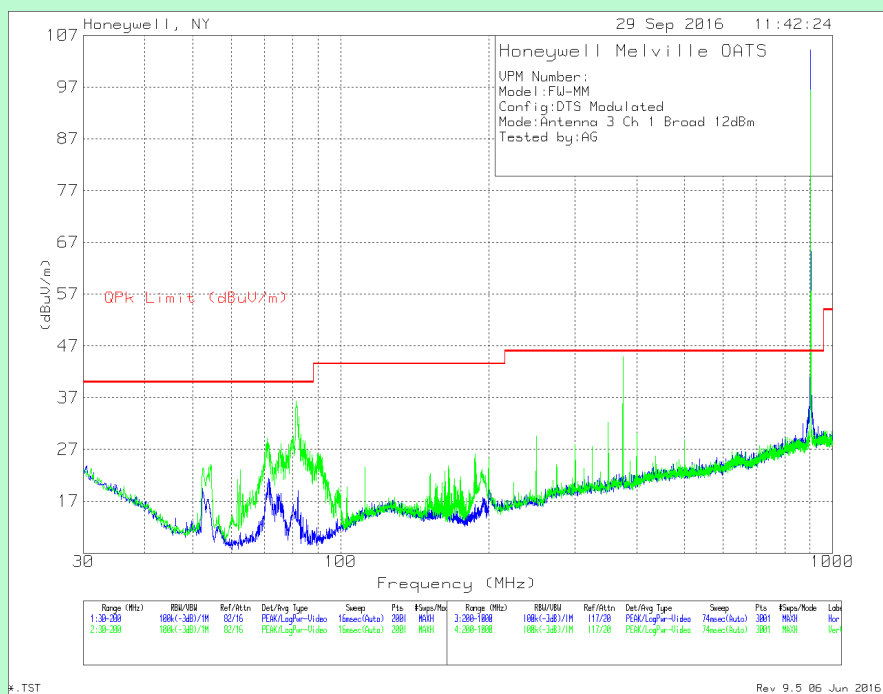
Pk - Peak detector

Qp - Quasi-Peak detector

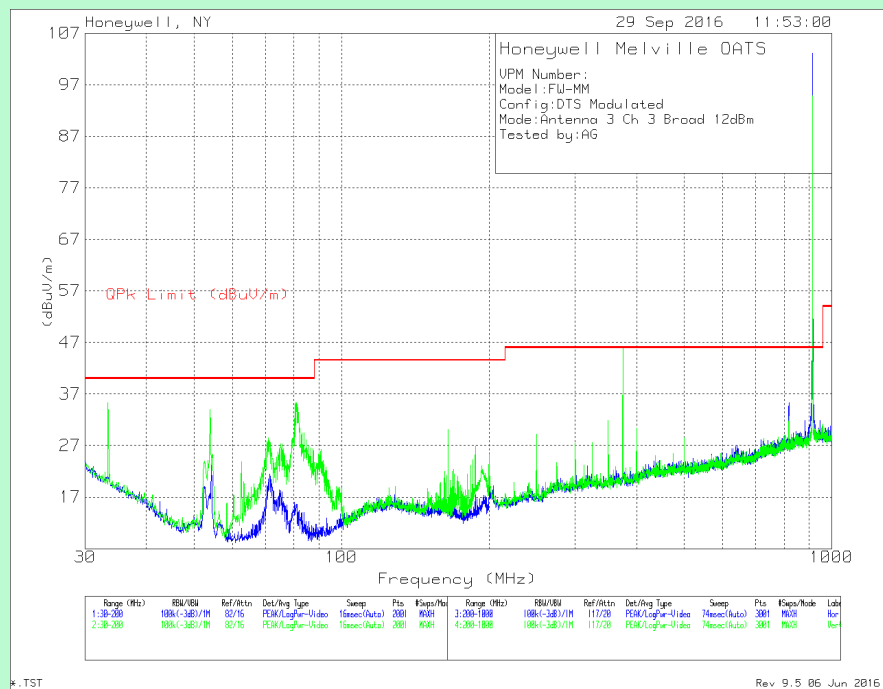
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

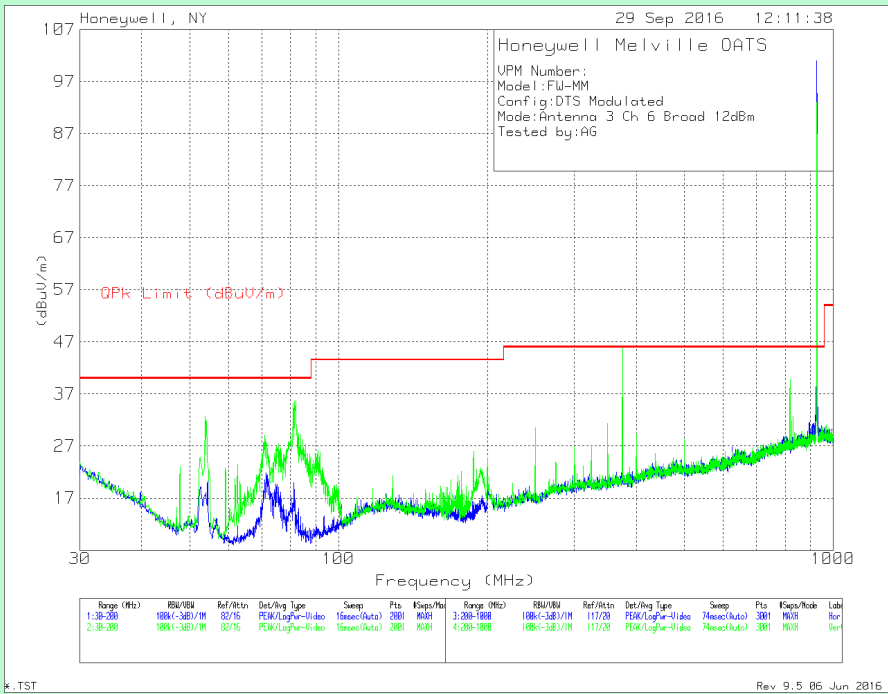
TEST GRAPHS – 30 MHz to 1GHz (ANTENNA 3)



Channel 1 (902.875 MHz) – Antenna 3



Channel 3 (914.325 MHz) – Antenna 3



Channel 6 (927.125 MHz) – Antenna 3

TEST RESULT – 30 MHz to 1 GHz

Channel 1											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
70.97	40.09	Qp	12.2	-28.9	1.2	24.59	40	15.41	130	341	V
81.255	40.72	Qp	11.8	-28.9	1.3	24.92	40	15.08	119	177	V
** 902.731	101.36	Pk	27	-27.6	5.5	106.26	-	-	163	100	H
374.9336	29.54	Qp	19.7	-28	3.1	24.34	46.02	21.68	18	308	H
** 902.731	89.4	Pk	27	-27.6	5.5	94.3	-	-	306	109	V
* 250.1334	30.43	Qp	16.3	-28	2.4	21.13	46.02	24.89	229	380	V
350.1335	29.52	Qp	19.4	-27.9	2.9	23.92	46.02	22.1	306	236	V
374.9336	29.59	Qp	19.7	-28	3.1	24.39	46.02	21.63	215	219	V
Channel 3											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
33.4	31.43	Qp	23.4	-29.1	.8	26.53	40	13.47	18	149	V
53.885	47.01	Qp	12	-29	1.1	31.11	40	8.89	154	400	V
80.83	38.64	Qp	11.8	-28.9	1.3	22.84	40	17.16	314	249	V
** 914.181	100.73	Pk	27.3	-27.5	5.6	106.13	-	-	31	101	H
374.9336	29.81	Qp	19.7	-28	3.1	24.61	46.02	21.41	125	285	H
818.1341	30.04	Qp	26.3	-27.9	5.2	33.64	46.02	12.38	343	253	H
** 914.181	89.96	Pk	27.3	-27.5	5.6	95.36	-	-	296	109	V
374.9336	29.88	Qp	19.7	-28	3.1	24.68	46.02	21.34	28	238	V
Channel 6											
Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Pre Amp #1 [dB]	RDE #1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
53.715	43.25	Qp	12	-29	1.1	27.35	40	12.65	200	170	V
70.97	39.57	Qp	12.2	-28.9	1.2	24.07	40	15.93	14	369	V
82.02	39.95	Qp	11.8	-28.9	1.3	24.15	40	15.85	223	117	V
** 926.981	99.36	Pk	27.3	-27.5	5.7	104.86	-	-	157	100	H
374.9336	29.9	Qp	19.7	-28	3.1	24.7	46.02	21.32	0	278	H
** 926.981	89.72	Pk	27.3	-27.5	5.7	95.22	-	-	291	110	V
374.9336	29.97	Qp	19.7	-28	3.1	24.77	46.02	21.25	56	115	V
818.4008	29.96	Qp	26.3	-27.9	5.2	33.56	46.02	12.46	165	362	V

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

** - indicates intended frequency

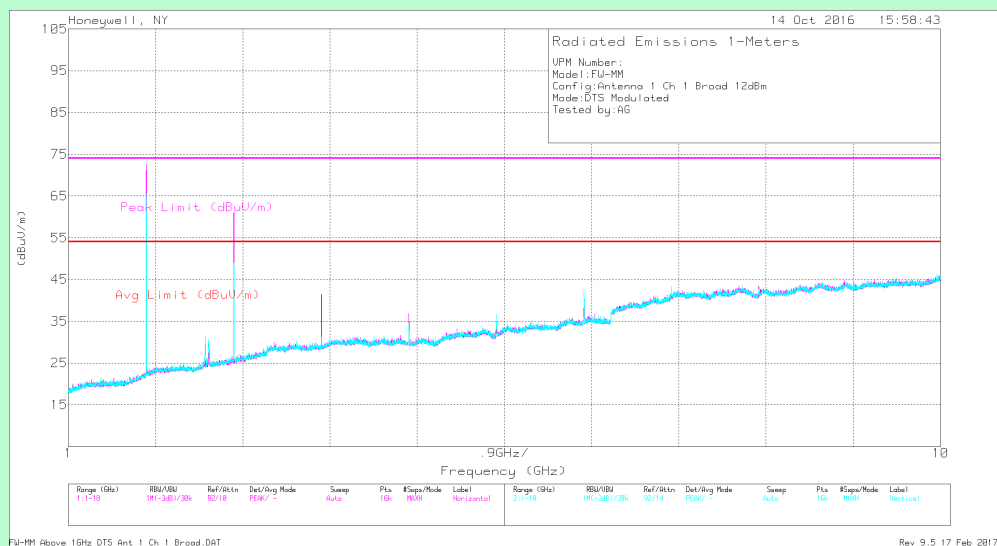
Pk - Peak detector

Qp - Quasi-Peak detector

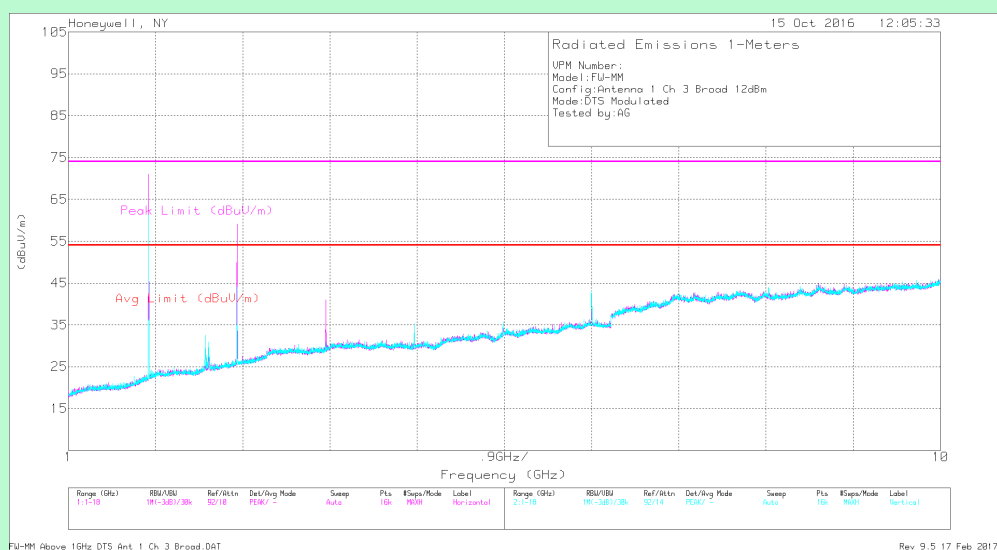
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

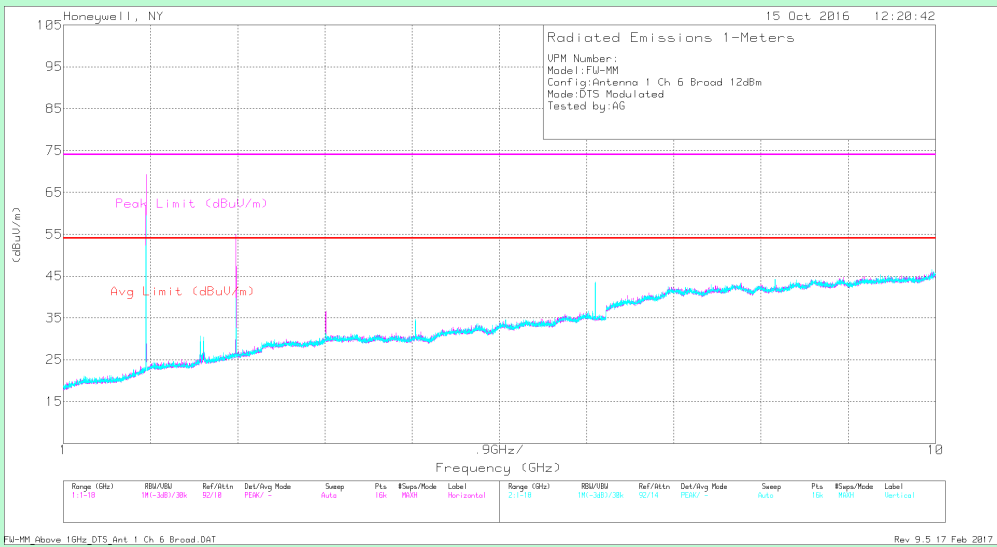
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 1)



Channel 1 (902.875 MHz) – Antenna 1



Channel 3 (914.325 MHz) – Antenna 1



Channel 6 (927.125 MHz) – Antenna 1

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 1

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.708	38.92	PK2	29.3	-27.1	9	50.12	74	23.88	45	183	H
* 3.612	31.32	PK2	31.6	-26.8	10.4	46.52	74	27.48	120	364	H
* 4.515	34.79	PK2	32.2	-26.6	11.7	52.09	74	21.91	335	363	H
* 4.516	35.1	PK2	32.2	-26.6	11.7	52.4	74	21.6	335	363	H
* 5.419	34.89	PK2	34.3	-26.7	12.9	55.39	74	18.61	354	304	H
* 8.126	31.99	PK2	37.1	-26.2	16	58.89	74	15.11	338	222	H
* 9.03	32.45	PK2	37.6	-25.9	16.9	61.05	74	12.95	336	321	H
* 2.708	40.99	PK2	29.3	-27.1	9	52.19	74	21.81	215	302	V
* 3.611	32.37	PK2	31.6	-26.8	10.4	47.57	74	26.43	259	342	V
* 4.515	33.74	PK2	32.2	-26.6	11.7	51.04	74	22.96	297	136	V
* 5.419	32.5	PK2	34.3	-26.7	12.9	53	74	21	8	113	V
* 8.125	30.78	PK2	37.1	-26.2	16	57.68	74	16.32	323	303	V
* 9.03	32.53	PK2	37.6	-25.9	16.9	61.13	74	12.87	220	311	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.805	58.67	PK2	27	-26.9	7.3	66.07	86.8	20.73	25	185	H
6.318	34.41	PK2	34.9	-26.4	14	56.91	86.8	29.89	110	251	H
7.221	33.42	PK2	36.3	-26.2	15	58.52	86.8	28.28	304	236	H
1.806	47.05	PK2	27.1	-26.9	7.3	54.55	86.8	32.25	136	318	V
6.318	35.16	PK2	34.9	-26.4	14	57.66	86.8	29.14	8	268	V
7.225	34.24	PK2	36.3	-26.2	15	59.34	86.8	27.46	251	265	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.709	30.58	MAv1	29.3	-27.1	9	41.78	54	12.22	45	183	H
* 3.61	22.53	MAv1	31.6	-26.8	10.4	37.73	54	16.27	120	364	H
* 4.513	26.05	MAv1	32.2	-26.6	11.7	43.35	54	10.65	335	363	H
* 4.513	25.83	MAv1	32.2	-26.6	11.7	43.13	54	10.87	335	363	H
* 5.416	25.06	MAv1	34.3	-26.7	12.9	45.56	54	8.44	354	304	H
* 8.124	22.26	MAv1	37.1	-26.2	16	49.16	54	4.84	338	222	H
* 9.028	22.1	MAv1	37.6	-25.9	16.9	50.7	54	3.3	336	321	H
* 2.708	32.96	MAv1	29.3	-27.1	9	44.16	54	9.84	215	302	V
* 3.613	22.51	MAv1	31.6	-26.8	10.4	37.71	54	16.29	259	342	V
* 4.513	25.39	MAv1	32.2	-26.6	11.7	42.69	54	11.31	297	136	V
* 5.416	23.99	MAv1	34.3	-26.7	12.9	44.49	54	9.51	8	113	V
* 8.126	21.56	MAv1	37.1	-26.2	16	48.46	54	5.54	323	303	V
* 9.03	22.14	MAv1	37.6	-25.9	16.9	50.74	54	3.26	220	311	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 3

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.744	30.84	PK2	29.4	-27	9	42.24	74	31.76	327	362	H
* 3.658	29.63	PK2	31.8	-26.9	10.4	44.93	74	29.07	134	156	H
* 4.571	31.14	PK2	32.2	-26.7	11.8	48.44	74	25.56	69	358	H
* 7.316	31.97	PK2	36.7	-26.2	15.1	57.57	74	16.43	93	204	H
* 8.228	30.06	PK2	37.1	-26.1	16.1	57.16	74	16.84	70	340	H
* 9.143	31.66	PK2	37.6	-25.9	16.9	60.26	74	13.74	150	106	H
* 2.742	30.87	PK2	29.4	-27	9	42.27	74	31.73	244	211	V
* 3.656	29.4	PK2	31.8	-26.9	10.4	44.7	74	29.3	238	225	V
* 4.574	31.37	PK2	32.2	-26.7	11.8	48.67	74	25.33	288	178	V
* 7.314	32.03	PK2	36.7	-26.2	15.1	57.63	74	16.37	172	275	V
* 8.231	30.33	PK2	37.1	-26.1	16.1	57.43	74	16.57	141	300	V
* 9.141	31.35	PK2	37.6	-25.9	16.9	59.95	74	14.05	40	331	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.829	39.22	PK2	27.3	-26.9	7.3	46.92	84.9	37.98	68	133	H
5.487	30.15	PK2	34.4	-26.6	13	50.95	84.9	33.95	350	376	H
6.399	31.98	PK2	34.8	-26.2	14.1	54.68	84.9	30.22	166	378	H
1.829	34.12	PK2	27.3	-26.9	7.3	41.82	84.9	43.08	324	107	V
5.486	29.86	PK2	34.4	-26.6	13	50.66	84.9	34.24	181	168	V
6.399	32.34	PK2	34.8	-26.2	14.1	55.04	84.9	29.86	78	329	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.744	21.87	MAv1	29.4	-27	9	33.27	54	20.73	327	362	H
* 3.659	19.71	MAv1	31.8	-26.9	10.4	35.01	54	18.99	134	156	H
* 4.571	21.82	MAv1	32.2	-26.7	11.8	39.12	54	14.88	69	358	H
* 7.313	22.66	MAv1	36.7	-26.2	15.1	48.26	54	5.74	93	204	H
* 8.229	20.67	MAv1	37.1	-26.1	16.1	47.77	54	6.23	70	340	H
* 9.144	21.42	MAv1	37.6	-25.9	16.9	50.02	54	3.98	150	106	H
* 2.743	22.09	MAv1	29.4	-27	9	33.49	54	20.51	244	211	V
* 3.658	20.26	MAv1	31.8	-26.9	10.4	35.56	54	18.44	238	225	V
* 4.573	21.74	MAv1	32.2	-26.7	11.8	39.04	54	14.96	288	178	V
* 7.313	22.74	MAv1	36.7	-26.2	15.1	48.34	54	5.66	172	275	V
* 8.227	20.86	MAv1	37.1	-26.1	16.1	47.96	54	6.04	141	300	V
* 9.145	21.7	MAv1	37.6	-25.9	16.9	50.3	54	3.7	40	331	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 6

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.782	31.63	PK2	29.5	-27.1	9.1	43.13	74	30.87	271	184	H
* 3.71	29.93	PK2	32	-26.9	10.6	45.63	74	28.37	170	332	H
* 4.634	31.73	PK2	32.4	-26.6	11.8	49.33	74	24.67	94	344	H
* 7.418	31.5	PK2	36.8	-26.2	15.2	57.3	74	16.7	114	208	H
* 8.343	30.77	PK2	37.3	-26.1	16.2	58.17	74	15.83	351	353	H
* 2.78	31.59	PK2	29.5	-27.1	9.1	43.09	74	30.91	241	355	V
* 3.707	30.07	PK2	32	-26.9	10.6	45.77	74	28.23	141	201	V
* 4.637	30.64	PK2	32.4	-26.6	11.8	48.24	74	25.76	19	211	V
* 7.418	30.75	PK2	36.8	-26.2	15.2	56.55	74	17.45	98	335	V
* 8.346	30.21	PK2	37.3	-26.1	16.2	57.61	74	16.39	22	276	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.854	36.25	PK2	27.5	-26.9	7.4	44.25	82.1	37.85	68	131	H
5.561	30.05	PK2	34.4	-26.4	13.1	51.15	82.1	30.95	21	217	H
6.492	31.26	PK2	34.8	-26.4	14.2	53.86	82.1	28.24	349	268	H
9.273	30.56	PK2	37.8	-26	17.1	59.46	82.1	22.64	209	194	H
1.855	30.68	PK2	27.5	-26.9	7.4	38.68	82.1	43.42	91	326	V
5.565	29.54	PK2	34.4	-26.4	13.1	50.64	82.1	31.46	142	359	V
6.49	31.87	PK2	34.8	-26.4	14.2	54.47	82.1	27.63	204	299	V
9.27	30.51	PK2	37.8	-26	17.1	59.41	82.1	22.69	140	363	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.781	23.21	MAv1	29.5	-27.1	9.1	34.71	54	19.29	271	184	H
* 3.71	20.42	MAv1	32	-26.9	10.6	36.12	54	17.88	170	332	H
* 4.634	22.24	MAv1	32.4	-26.6	11.8	39.84	54	14.16	94	344	H
* 7.416	21.96	MAv1	36.8	-26.2	15.2	47.76	54	6.24	114	208	H
* 8.346	21.33	MAv1	37.3	-26.1	16.2	48.73	54	5.27	351	353	H
* 2.781	22.1	MAv1	29.5	-27.1	9.1	33.6	54	20.4	241	355	V
* 3.707	20.56	MAv1	32	-26.9	10.6	36.26	54	17.74	141	201	V
* 4.636	22.14	MAv1	32.4	-26.6	11.8	39.74	54	14.26	19	211	V
* 7.419	21.58	MAv1	36.8	-26.2	15.2	47.38	54	6.62	98	335	V
* 8.345	21.31	MAv1	37.3	-26.1	16.2	48.71	54	5.29	22	276	V

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

** - indicates intended frequency

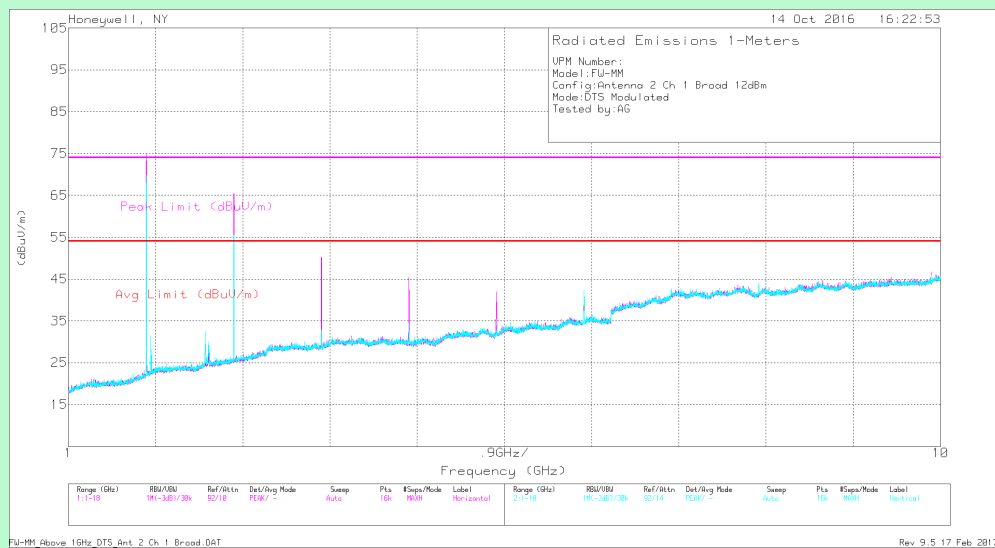
Pk - Peak detector

Qp - Quasi-Peak detector

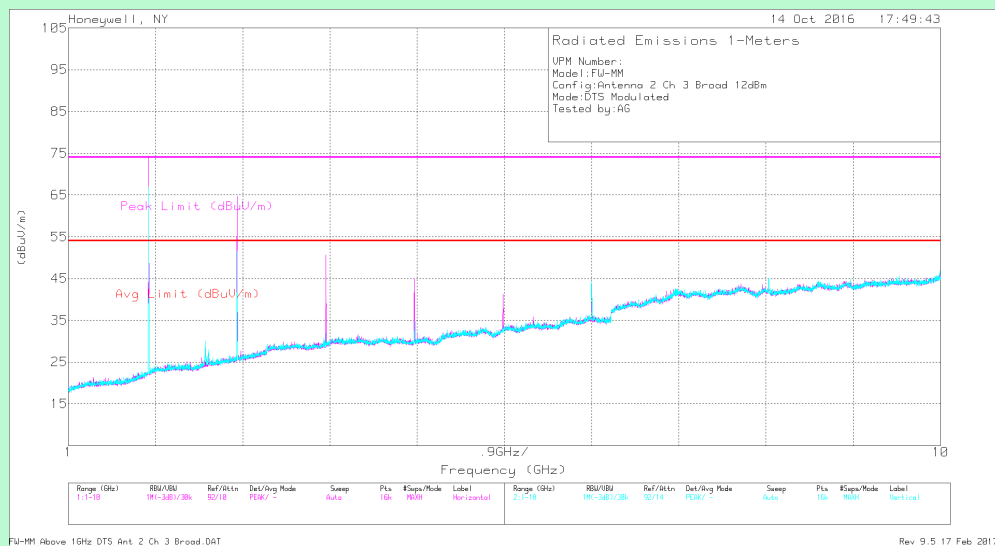
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

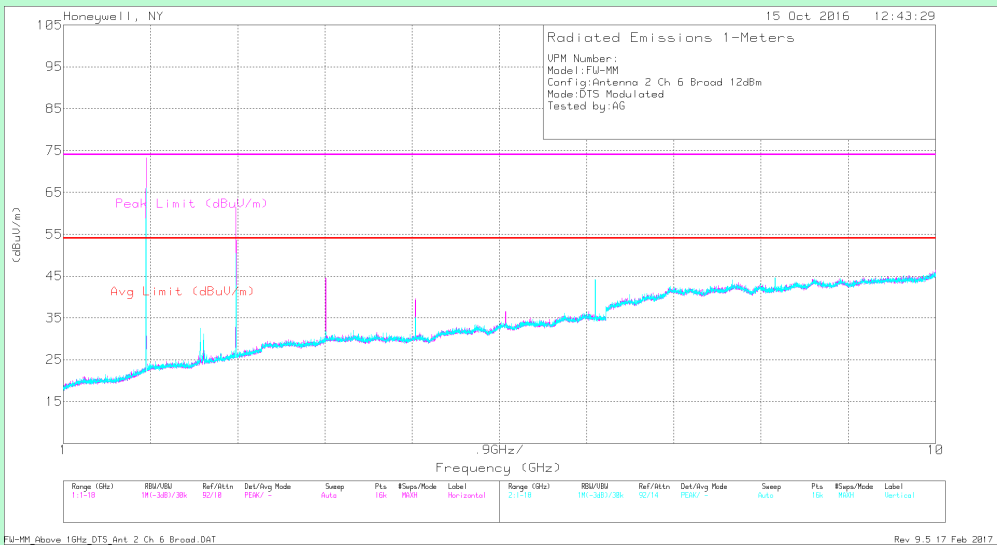
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 2)



Channel 1 (902.875 MHz) – Antenna 2



Channel 3 (914.325 MHz) – Antenna 2



Channel 6 (927.125 MHz) – Antenna 2

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 1

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.708	42.49	PK2	29.3	-27.1	9	53.69	74	20.31	29	105	H
* 3.61	30.63	PK2	31.6	-26.8	10.4	45.83	74	28.17	236	176	H
* 4.516	32.54	PK2	32.2	-26.6	11.7	49.84	74	24.16	73	276	H
* 5.416	30.47	PK2	34.3	-26.7	12.9	50.97	74	23.03	34	388	H
* 8.126	32.29	PK2	37.1	-26.2	16	59.19	74	14.81	328	259	H
* 9.03	31.41	PK2	37.6	-25.9	16.9	60.01	74	13.99	149	134	H
* 2.708	43.93	PK2	29.3	-27.1	9	55.13	74	18.87	324	131	V
* 3.61	30.49	PK2	31.6	-26.8	10.4	45.69	74	28.31	11	146	V
* 4.514	33.62	PK2	32.2	-26.6	11.7	50.92	74	23.08	303	123	V
* 5.416	31.39	PK2	34.3	-26.7	12.9	51.89	74	22.11	41	288	V
* 8.126	31.08	PK2	37.1	-26.2	16	57.98	74	16.02	102	284	V
* 9.029	32.01	PK2	37.6	-25.9	16.9	60.61	74	13.39	228	258	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.805	57.43	PK2	27	-26.9	7.3	64.83	84.7	19.87	177	107	H
6.322	32.29	PK2	34.9	-26.4	14	54.79	84.7	29.91	164	203	H
7.222	31.39	PK2	36.3	-26.2	15	56.49	84.7	28.21	4	223	H
1.806	51.32	PK2	27.1	-26.9	7.3	58.82	84.7	25.88	195	172	V
6.322	35.4	PK2	34.9	-26.4	14	57.9	84.7	26.8	360	270	V
7.223	32.63	PK2	36.3	-26.2	15	57.73	84.7	26.97	272	271	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.708	34.3	MAv1	29.3	-27.1	9	45.5	54	8.5	29	105	H
* 3.61	21.42	MAv1	31.6	-26.8	10.4	36.62	54	17.38	236	176	H
* 4.516	23.12	MAv1	32.2	-26.6	11.7	40.42	54	13.58	73	276	H
* 5.415	21.01	MAv1	34.3	-26.7	12.9	41.51	54	12.49	34	388	H
* 8.128	23.75	MAv1	37.1	-26.2	16	50.65	54	3.35	328	259	H
* 9.03	22	MAv1	37.6	-25.9	16.9	50.6	54	3.4	149	134	H
* 2.709	35.81	MAv1	29.3	-27.1	9	47.01	54	6.99	324	131	V
* 3.612	21.22	MAv1	31.6	-26.8	10.4	36.42	54	17.58	11	146	V
* 4.514	24.53	MAv1	32.2	-26.6	11.7	41.83	54	12.17	303	123	V
* 5.419	21.56	MAv1	34.3	-26.7	12.9	42.06	54	11.94	41	288	V
* 8.127	21.15	MAv1	37.1	-26.2	16	48.05	54	5.95	102	284	V
* 9.027	21.68	MAv1	37.6	-25.9	16.9	50.28	54	3.72	228	258	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 3

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.742	37.49	PK2	29.4	-27	9	48.89	74	25.11	89	163	H
* 3.655	29.91	PK2	31.8	-26.9	10.4	45.21	74	28.79	210	368	H
* 4.573	31.53	PK2	32.2	-26.7	11.8	48.83	74	25.17	258	352	H
* 7.313	31.4	PK2	36.7	-26.2	15.1	57	74	17	172	111	H
* 8.229	29.89	PK2	37.1	-26.1	16.1	56.99	74	17.01	66	157	H
* 9.144	31.04	PK2	37.6	-25.9	16.9	59.64	74	14.36	146	289	H
* 2.742	33.45	PK2	29.4	-27	9	44.85	74	29.15	298	181	V
* 3.656	29.51	PK2	31.8	-26.9	10.4	44.81	74	29.19	235	183	V
* 4.573	30.71	PK2	32.2	-26.7	11.8	48.01	74	25.99	70	343	V
* 7.314	31.73	PK2	36.7	-26.2	15.1	57.33	74	16.67	168	284	V
* 8.228	29.37	PK2	37.1	-26.1	16.1	56.47	74	17.53	241	395	V
* 9.141	31.34	PK2	37.6	-25.9	16.9	59.94	74	14.06	231	287	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.828	42.87	PK2	27.2	-26.9	7.3	50.47	85.7	35.23	215	102	H
5.486	29.71	PK2	34.4	-26.6	13	50.51	85.7	35.19	319	232	H
6.398	32.32	PK2	34.8	-26.2	14.1	55.02	85.7	30.68	108	300	H
1.829	35.85	PK2	27.3	-26.9	7.3	43.55	85.7	42.15	183	170	V
5.486	29.72	PK2	34.4	-26.6	13	50.52	85.7	35.18	305	111	V
6.402	32.78	PK2	34.8	-26.2	14.1	55.48	85.7	30.22	273	128	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.744	29.19	MAv1	29.4	-27	9	40.59	54	13.41	89	163	H
* 3.659	20.38	MAv1	31.8	-26.9	10.4	35.68	54	18.32	210	368	H
* 4.57	21.84	MAv1	32.2	-26.7	11.8	39.14	54	14.86	258	352	H
* 7.315	22.49	MAv1	36.7	-26.2	15.1	48.09	54	5.91	172	111	H
* 8.228	20.51	MAv1	37.1	-26.1	16.1	47.61	54	6.39	66	157	H
* 9.145	21.6	MAv1	37.6	-25.9	16.9	50.2	54	3.8	146	289	H
* 2.743	25.05	MAv1	29.4	-27	9	36.45	54	17.55	298	181	V
* 3.658	20.3	MAv1	31.8	-26.9	10.4	35.6	54	18.4	235	183	V
* 4.57	21.95	MAv1	32.2	-26.7	11.8	39.25	54	14.75	70	343	V
* 7.314	22.38	MAv1	36.7	-26.2	15.1	47.98	54	6.02	168	284	V
* 8.228	21.09	MAv1	37.1	-26.1	16.1	48.19	54	5.81	241	395	V
* 9.144	22.06	MAv1	37.6	-25.9	16.9	50.66	54	3.34	231	287	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 6

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.781	33.84	PK2	29.5	-27.1	9.1	45.34	74	28.66	240	162	H
* 3.709	29.77	PK2	32	-26.9	10.6	45.47	74	28.53	299	266	H
* 4.636	31.38	PK2	32.4	-26.6	11.8	48.98	74	25.02	67	141	H
* 8.343	31.05	PK2	37.3	-26.1	16.2	58.45	74	15.55	89	175	H
* 7.416	30.18	PK2	36.8	-26.2	15.2	55.98	74	18.02	185	201	H
* 2.78	31.63	PK2	29.5	-27.1	9.1	43.13	74	30.87	282	289	V
* 3.71	29.96	PK2	32	-26.9	10.6	45.66	74	28.34	66	219	V
* 4.635	32.36	PK2	32.4	-26.6	11.8	49.96	74	24.04	247	186	V
* 7.416	30.61	PK2	36.8	-26.2	15.2	56.41	74	17.59	102	400	V
* 8.343	31.1	PK2	37.3	-26.1	16.2	58.5	74	15.5	111	327	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.853	36.2	PK2	27.5	-26.9	7.4	44.2	85.4	41.2	37	283	H
5.564	30.47	PK2	34.4	-26.4	13.1	51.57	85.4	33.83	10	120	H
6.49	31.28	PK2	34.8	-26.4	14.2	53.88	85.4	31.52	10	120	H
9.272	30.21	PK2	37.8	-26	17.1	59.11	85.4	26.29	141	119	H
1.854	35.73	PK2	27.5	-26.9	7.4	43.73	85.4	41.67	226	348	V
5.564	30.51	PK2	34.4	-26.4	13.1	51.61	85.4	33.79	238	272	V
6.491	31.98	PK2	34.8	-26.4	14.2	54.58	85.4	30.82	317	115	V
9.272	30.02	PK2	37.8	-26	17.1	58.92	85.4	26.48	9	202	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.781	23.41	MAv1	29.5	-27.1	9.1	34.91	54	19.09	240	162	H
* 3.707	20.12	MAv1	32	-26.9	10.6	35.82	54	18.18	299	266	H
* 4.635	22.48	MAv1	32.4	-26.6	11.8	40.08	54	13.92	67	141	H
* 8.343	21.3	MAv1	37.3	-26.1	16.2	48.7	54	5.3	89	175	H
* 7.416	21.52	MAv1	36.8	-26.2	15.2	47.32	54	6.68	185	201	H
* 2.781	23.03	MAv1	29.5	-27.1	9.1	34.53	54	19.47	282	289	V
* 3.71	20.26	MAv1	32	-26.9	10.6	35.96	54	18.04	66	219	V
* 4.634	22.1	MAv1	32.4	-26.6	11.8	39.7	54	14.3	247	186	V
* 7.416	22.2	MAv1	36.8	-26.2	15.2	48	54	6	102	400	V
* 8.345	21.02	MAv1	37.3	-26.1	16.2	48.42	54	5.58	111	327	V

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

** - indicates intended frequency

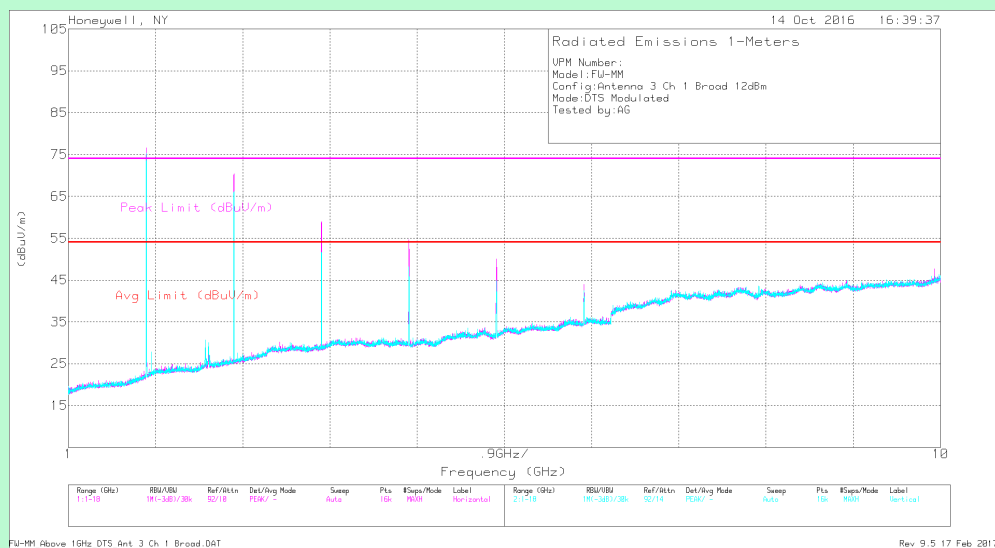
Pk - Peak detector

Qp - Quasi-Peak detector

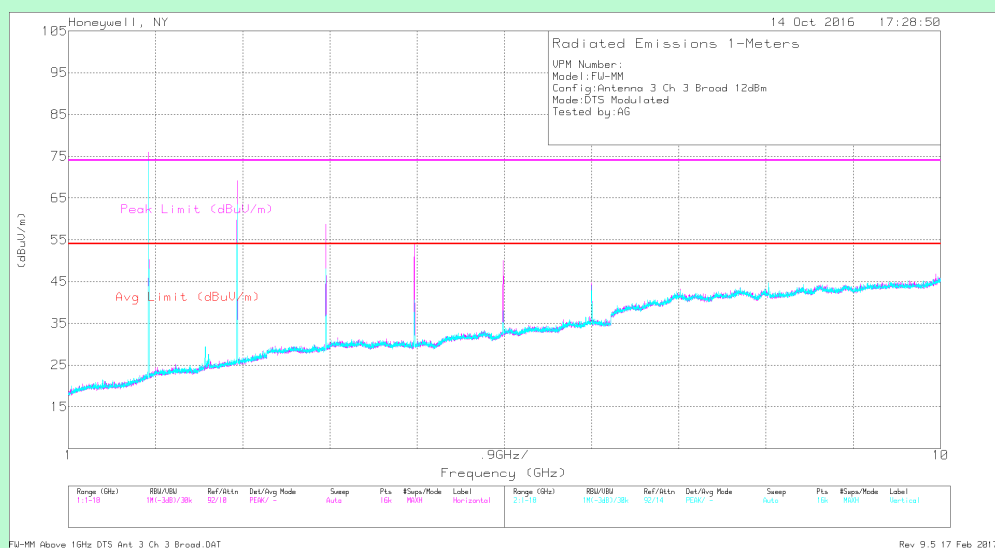
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

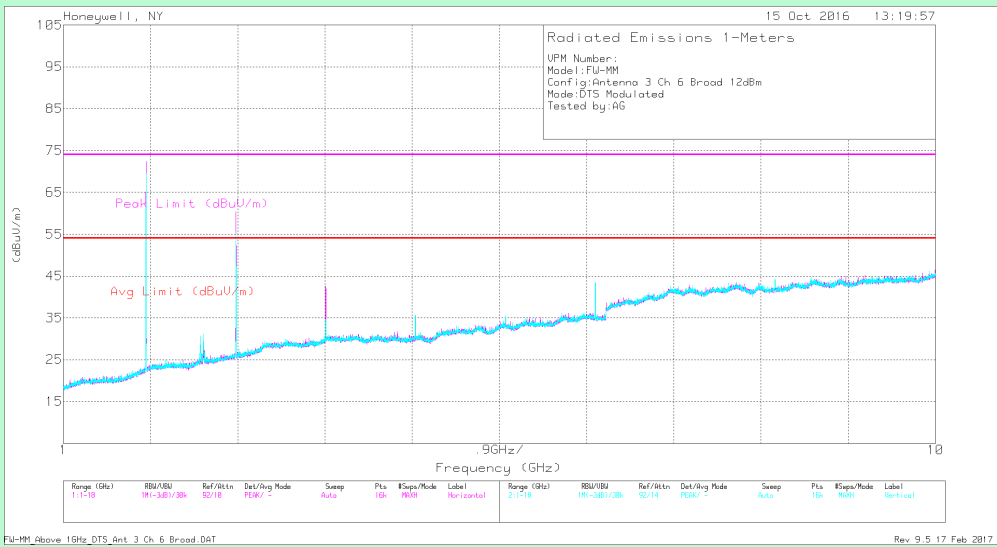
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 3)



Channel 1 (902.875 MHz) – Antenna 3



Channel 3 (914.325 MHz) – Antenna 3



Channel 6 (927.125 MHz) – Antenna 3

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 1

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.708	33.48	PK2	29.3	-27.1	9	44.68	74	29.32	262	191	H
* 3.612	29.02	PK2	31.6	-26.8	10.4	44.22	74	29.78	185	331	H
* 4.516	31.37	PK2	32.2	-26.6	11.7	48.67	74	25.33	299	263	H
* 5.418	29.21	PK2	34.3	-26.7	12.9	49.71	74	24.29	286	349	H
* 8.125	30.35	PK2	37.1	-26.2	16	57.25	74	16.75	8	316	H
* 9.027	30.5	PK2	37.6	-25.9	16.9	59.1	74	14.9	314	198	H
* 2.708	30.36	PK2	29.3	-27.1	9	41.56	74	32.44	53	229	V
* 3.61	28.79	PK2	31.6	-26.8	10.4	43.99	74	30.01	134	339	V
* 4.512	31.6	PK2	32.2	-26.6	11.7	48.9	74	25.1	35	314	V
* 5.415	30.91	PK2	34.3	-26.7	12.9	51.41	74	22.59	234	270	V
* 8.128	30.11	PK2	37.1	-26.2	16	57.01	74	16.99	52	372	V
* 9.028	31.4	PK2	37.6	-25.9	16.9	60	74	14	309	378	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.806	39.74	PK2	27.1	-26.9	7.3	47.24	86.3	39.06	204	115	H
6.32	30.61	PK2	34.9	-26.4	14	53.11	86.3	33.19	241	354	H
7.224	31.43	PK2	36.3	-26.2	15	56.53	86.3	29.77	128	190	H
1.806	32.46	PK2	27.1	-26.9	7.3	39.96	86.3	46.34	87	346	V
6.321	30.37	PK2	34.9	-26.4	14	52.87	86.3	33.43	287	313	V
7.223	30.88	PK2	36.3	-26.2	15	55.98	86.3	30.32	94	162	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.708	23.32	MAv1	29.3	-27.1	9	34.52	54	19.48	262	191	H
* 3.61	20.19	MAv1	31.6	-26.8	10.4	35.39	54	18.61	185	331	H
* 4.516	22.23	MAv1	32.2	-26.6	11.7	39.53	54	14.47	299	263	H
* 5.418	19.86	MAv1	34.3	-26.7	12.9	40.36	54	13.64	286	349	H
* 8.127	20.55	MAv1	37.1	-26.2	16	47.45	54	6.55	8	316	H
* 9.028	21.83	MAv1	37.6	-25.9	16.9	50.43	54	3.57	314	198	H
* 2.709	21.46	MAv1	29.3	-27.1	9	32.66	54	21.34	53	229	V
* 3.611	19.48	MAv1	31.6	-26.8	10.4	34.68	54	19.32	134	339	V
* 4.513	22.61	MAv1	32.2	-26.6	11.7	39.91	54	14.09	35	314	V
* 5.417	19.74	MAv1	34.3	-26.7	12.9	40.24	54	13.76	234	270	V
* 8.127	20.91	MAv1	37.1	-26.2	16	47.81	54	6.19	52	372	V
* 9.029	21.33	MAv1	37.6	-25.9	16.9	49.93	54	4.07	309	378	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 3

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.744	35.36	PK2	29.4	-27	9	46.76	74	27.24	86	137	H
* 3.658	31.2	PK2	31.8	-26.9	10.4	46.5	74	27.5	68	101	H
* 4.573	31.19	PK2	32.2	-26.7	11.8	48.49	74	25.51	128	286	H
* 7.313	32.11	PK2	36.7	-26.2	15.1	57.71	74	16.29	27	291	H
* 8.228	30.69	PK2	37.1	-26.1	16.1	57.79	74	16.21	22	124	H
* 9.144	36.55	PK2	37.6	-25.9	16.9	65.15	74	8.85	39	195	H
* 2.742	32.84	PK2	29.4	-27	9	44.24	74	29.76	331	124	V
* 3.658	30.89	PK2	31.8	-26.9	10.4	46.19	74	27.81	173	228	V
* 4.572	31.36	PK2	32.2	-26.7	11.8	48.66	74	25.34	185	386	V
* 7.314	32.03	PK2	36.7	-26.2	15.1	57.63	74	16.37	74	320	V
* 8.23	31.71	PK2	37.1	-26.1	16.1	58.81	74	15.19	333	314	V
* 9.144	31.3	PK2	37.6	-25.9	16.9	59.9	74	14.1	191	315	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.829	40.1	PK2	27.3	-26.9	7.3	47.8	86.1	38.3	162	163	H
5.486	30.03	PK2	34.4	-26.6	13	50.83	86.1	35.27	224	109	H
6.401	32.12	PK2	34.8	-26.2	14.1	54.82	86.1	31.28	115	378	H
1.829	32.93	PK2	27.3	-26.9	7.3	40.63	86.1	45.47	333	132	V
5.487	30.01	PK2	34.4	-26.6	13	50.81	86.1	35.29	212	392	V
6.4	31.88	PK2	34.8	-26.2	14.1	54.58	86.1	31.52	41	177	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.744	26.31	MAv1	29.4	-27	9	37.71	54	16.29	86	137	H
* 3.658	20.19	MAv1	31.8	-26.9	10.4	35.49	54	18.51	68	101	H
* 4.57	21.29	MAv1	32.2	-26.7	11.8	38.59	54	15.41	128	286	H
* 7.313	22.3	MAv1	36.7	-26.2	15.1	47.9	54	6.1	27	291	H
* 8.228	20.51	MAv1	37.1	-26.1	16.1	47.61	54	6.39	22	124	H
* 9.143	-2.32	MAv1	37.6	-	7.7	42.98	54	11.02	174	154	H
* 2.744	22.59	MAv1	29.4	-27	9	33.99	54	20.01	331	124	V
* 3.656	20.21	MAv1	31.8	-26.9	10.4	35.51	54	18.49	173	228	V
* 4.573	21.29	MAv1	32.2	-26.7	11.8	38.59	54	15.41	185	386	V
* 7.314	22.08	MAv1	36.7	-26.2	15.1	47.68	54	6.32	74	320	V
* 8.229	20.66	MAv1	37.1	-26.1	16.1	47.76	54	6.24	333	314	V
* 9.145	21.22	MAv1	37.6	-25.9	16.9	49.82	54	4.18	191	315	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 6

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.782	38.16	PK2	29.5	-27.1	9.1	49.66	74	24.34	85	140	H
* 3.709	29.55	PK2	32	-26.9	10.6	45.25	74	28.75	95	359	H
* 4.635	32.72	PK2	32.4	-26.6	11.8	50.32	74	23.68	155	279	H
* 7.418	31.32	PK2	36.8	-26.2	15.2	57.12	74	16.88	254	313	H
* 8.344	31.42	PK2	37.3	-26.1	16.2	58.82	74	15.18	138	220	H
* 2.781	34.96	PK2	29.5	-27.1	9.1	46.46	74	27.54	322	131	V
* 3.709	30.36	PK2	32	-26.9	10.6	46.06	74	27.94	198	123	V
* 4.635	31.54	PK2	32.4	-26.6	11.8	49.14	74	24.86	200	112	V
* 7.416	31.49	PK2	36.8	-26.2	15.2	57.29	74	16.71	260	122	V
* 8.343	31.57	PK2	37.3	-26.1	16.2	58.97	74	15.03	149	135	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.855	57.46	PK2	27.5	-26.9	7.4	65.46	84.9	19.44	105	164	H
5.564	30.93	PK2	34.4	-26.4	13.1	52.03	84.9	32.87	163	395	H
6.49	31.28	PK2	34.8	-26.4	14.2	53.88	84.9	31.02	39	140	H
9.272	31.96	PK2	37.8	-26	17.1	60.86	84.9	24.04	42	185	H
1.854	36.73	PK2	27.5	-26.9	7.4	44.73	84.9	40.17	211	195	V
5.563	29.84	PK2	34.4	-26.4	13.1	50.94	84.9	33.96	189	265	V
6.49	31.83	PK2	34.8	-26.4	14.2	54.43	84.9	30.47	137	349	V
9.272	31.32	PK2	37.8	-26	17.1	60.22	84.9	24.68	129	165	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.781	29.59	MAv1	29.5	-27.1	9.1	41.09	54	12.91	85	140	H
* 3.708	19.98	MAv1	32	-26.9	10.6	35.68	54	18.32	95	359	H
* 4.635	21.68	MAv1	32.4	-26.6	11.8	39.28	54	14.72	155	279	H
* 7.417	21.46	MAv1	36.8	-26.2	15.2	47.26	54	6.74	254	313	H
* 8.343	21.49	MAv1	37.3	-26.1	16.2	48.89	54	5.11	138	220	H
* 2.782	26.16	MAv1	29.5	-27.1	9.1	37.66	54	16.34	322	131	V
* 3.709	20.46	MAv1	32	-26.9	10.6	36.16	54	17.84	198	123	V
* 4.635	21.91	MAv1	32.4	-26.6	11.8	39.51	54	14.49	200	112	V
* 7.416	21.93	MAv1	36.8	-26.2	15.2	47.73	54	6.27	260	122	V
* 8.345	21.51	MAv1	37.3	-26.1	16.2	48.91	54	5.09	149	135	V

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

** - indicates intended frequency

Pk - Peak detector

Qp - Quasi-Peak detector

Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

3.6 Effective Isotropic Radiated Power (EIRP)			
EUT Nomenclature	Wireless Relay Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2017-05-30	Temperature (°C)	0°C-35°C
Test End Date	2017-05-30	Humidity RH (%)	10%RH-90%RH
Tested By	Chris Locke	Pressure (mbar)	NR
Input Voltage / Freq.	3.3 Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	ANSI 63.10 - 2013		
Test Method	KDB 412172 v01r01		
Comment	NA		
MAXIMUM OPERATING FREQUENCY			
902 MHz to 928 MHz			
TEST PARAMETERS			
Antenna Height	1m to 4m	Turntable Rotation	NA
Applicable Standard	ANSI C63.10 - 2013	Test Method	KDB 412172 v01r01
Equipment Class	NA	Measurement Distance	3m

TEST EQUIPMENT					
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Rohde & Schwarz	FSW26	103125	2018-02-14
Y	Bilog Antenna	Sunol	JB6	A012816	2018-03-09
Y	Log Periodic Antenna	A.H.Systems	SAS-200	365TX	2018-02-02
Y	Preamplifier (Below 1GHz)	HP	8447D	2443AUF555	NA
Y	Signal Generator	Agilent	N5183A (MXG)	MY50140667	2018-06-02
Note: Switch ON /OFF the Internal Preamplifier based on carrier level and or noise floor without overloading the receiver					

TEST RESULT – EIRP

ANTENNA	Frequency (MHz)	Polarity	Fundamental Target (dBuV/m)	Signal Generator Level (dBm)	EIRP (dBm)
1	902.875	H	101.9	10	10.8
1	902.875	V	93.05	1.9	2.7
1	914.325	H	99.49	8.7	9.5
1	914.325	V	90.76	0.4	1.2
1	927.125	H	96.62	9.4	10.2
1	927.125	V	89.5	0.5	1.3
2	902.875	H	99.84	7.9	8.7
2	902.875	V	90.98	-0.2	0.6
2	914.325	H	100.25	9.5	10.3
2	914.325	V	86.56	-3.8	-3
2	927.125	H	99.93	10.3	11.1
2	927.125	V	88.77	-0.3	0.5
3	902.875	H	101.36	9.5	10.3
3	902.875	V	89.4	-1.8	-1
3	914.325	H	100.73	10	10.8
3	914.325	V	89.96	-0.4	0.4
3	927.125	H	99.36	9.7	10.5
3	927.125	V	89.72	-7.5	-6.7

Note: EIRP=Signal Generator Level (dBm)+ Substitute Antenna Gain(dBi)+Cable loss(dB)
Substitute Antenna Gain =5.4dBi
Cable Loss =4.6dB

TEST SETUP PHOTOGRAPH

Refer Annexure -1

EIRP Test Setup

Annexure - 1