

2.5 BAND-EDGE COMPLIANCE

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	2016-09-06	Humidity RH (%)	51.9%RH
Tested By	Arnoldo Garcia	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 15.247:2010		
Test Method	DA 00-705		
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	192484	2017-05-18
Y	RF Cable	Digikey	1	NA	NA

Channel 1 CW:

 Agilent

L

Ref 27 dBm

#Atten 40 dB

Mkr2 902.785 5 MHz
-46.60 dBm#Peak
Log
10
dB/

LgAv

V1 S2

Start 900.000 0 MHz

Stop 904.500 0 MHz

#Res BW 100 kHz

#VBW 1 MHz

#Sweep 1.08 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	903.607 5 MHz	10.69 dBm
2	(1)	Freq	902.785 5 MHz	-46.60 dBm

Channel 1 Freq. Hop.:

 Agilent

L

Ref 27 dBm

Atten 40 dB

Mkr3 902.531 8 MHz
-42.84 dBm#Peak
Log
10
dB/

LgAv

V1 S2

Start 900.000 0 MHz

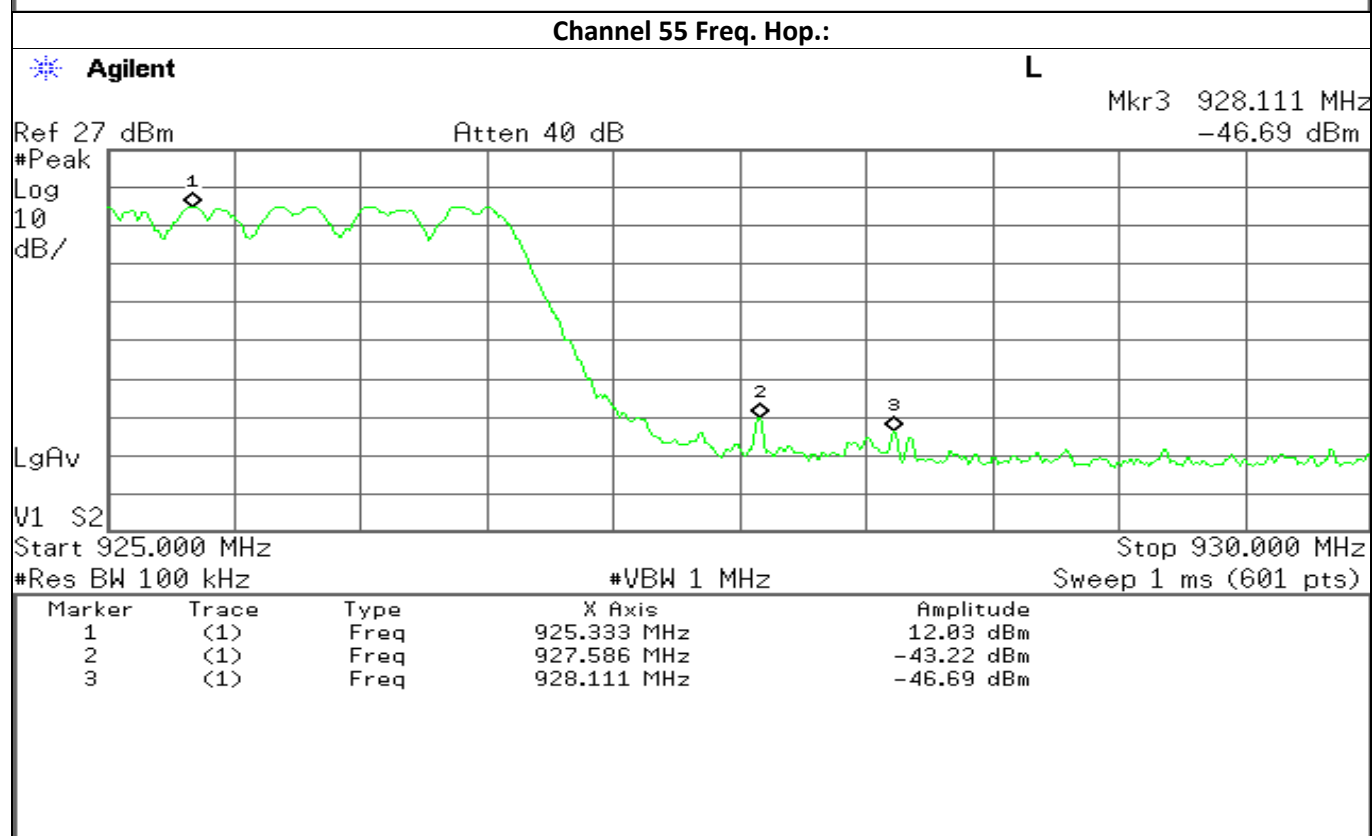
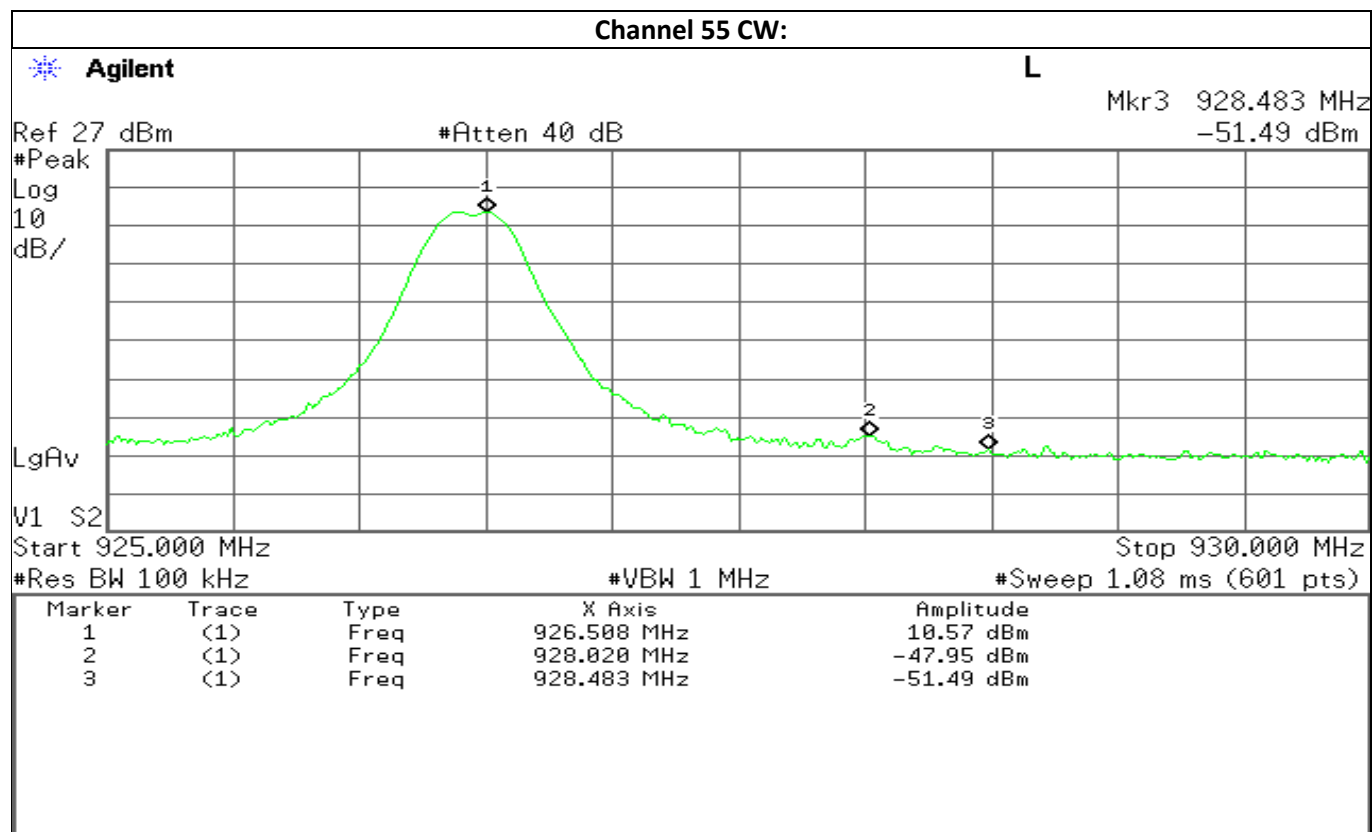
Stop 904.500 0 MHz

#Res BW 100 kHz

#VBW 1 MHz

Sweep 20 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	903.847 5 MHz	11.46 dBm
2	(1)	Freq	902.842 5 MHz	-40.25 dBm
3	(1)	Freq	902.531 8 MHz	-42.84 dBm



TEST RESULT

Channel	Frequency	Measured difference		Limit	Test Results
#	MHz	SINGLE CHANNEL	FHSS ENABLED	dBc	
1	903.355	57.29	51.71	>20	Pass
55	926.45	58.52	55.25	>20	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

2.6 TIME OF OCCUPANCY (DWELL TIME)

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2016-08-22	Temperature (°C)	23.6°C
Test End Date	2016-09-07	Humidity RH (%)	51.9%RH
Tested By	Arnoldo Garcia	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 15.247:2010		
Test Method	DA 00-705		
Comment	NA		

TEST DETAILS

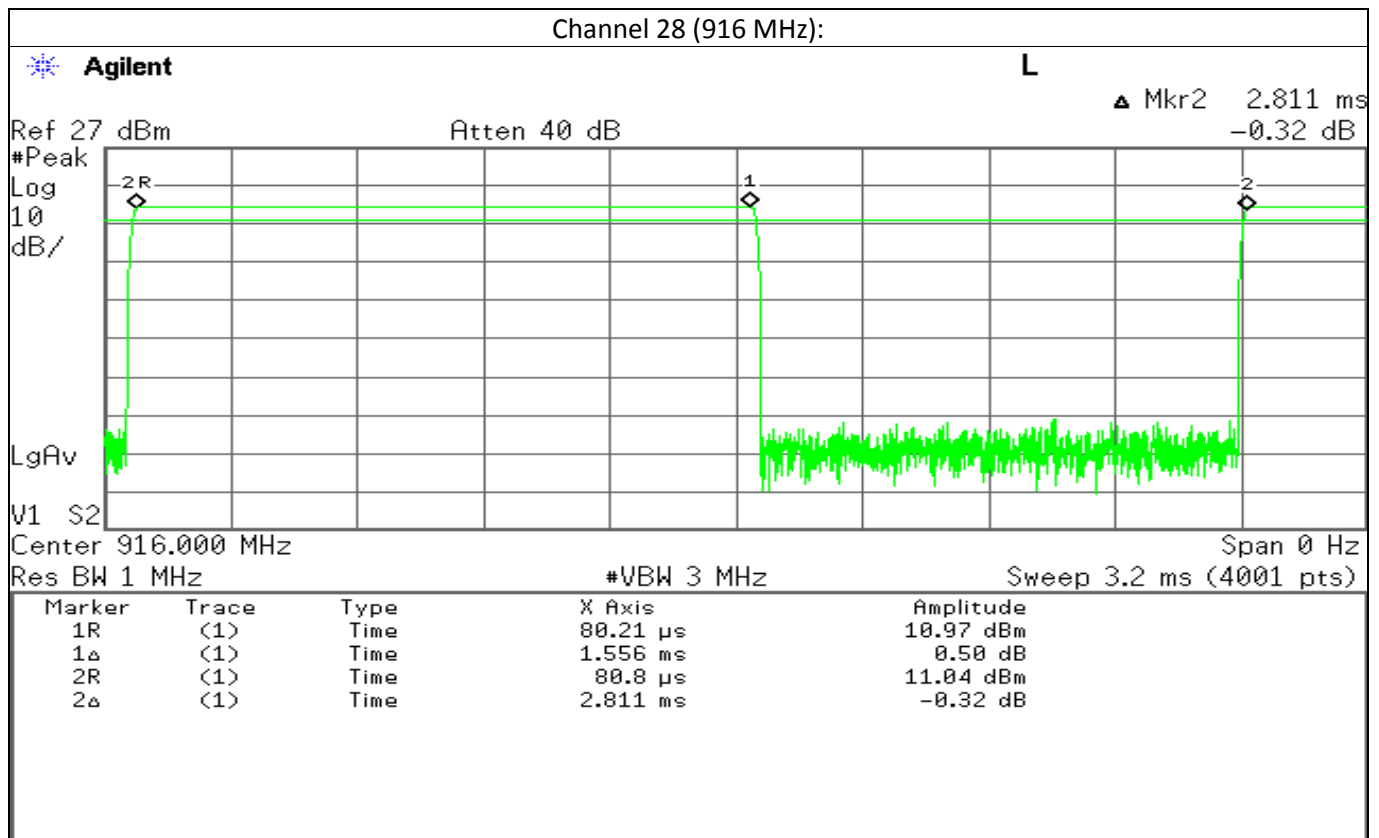
Method	Radiated ☐	Conducted ☒
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TEST PARAMETERS

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	192484	2017-05-18
Y	RF Cable	Digikey	1	NA	NA



TEST RESULT

Channel	Channel Frequency	Measured Dwell Time	No. of Bursts	Average Time of Occupancy in 10sec	Limit in 10s period	Results
#	MHz	ms	#	ms	ms	
28	916	1.556	15	23.34	≤ 400	PASS

TEST SETUP PHOTOGRAPHS

Refer Annexure -1

Conducted RFT test setup

2.7 SPURIOUS RF CONDUCTED EMISSIONS

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2017-04-18	Temperature (°C)	23.6°C
Test End Date	2017-04-18	Humidity RH (%)	51.9%RH
Tested By	Jose Badia	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 15.247:2010		
Test Method	DA 00-705		
Comment	NA		

TEST DETAILS

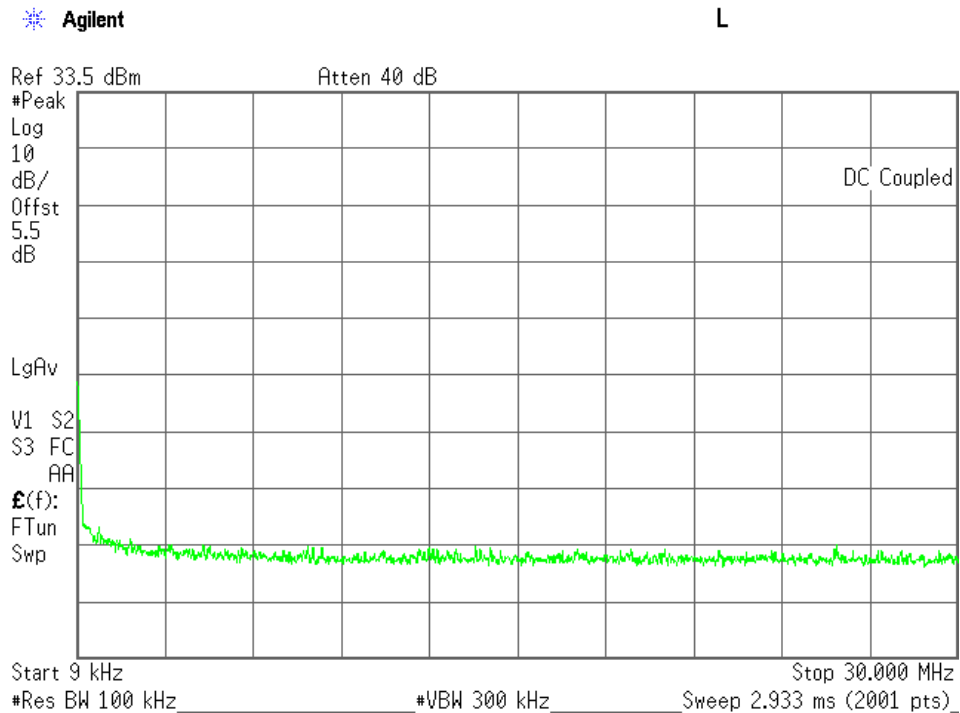
Method	Radiated ☐	Conducted ☒
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TEST PARAMETERS

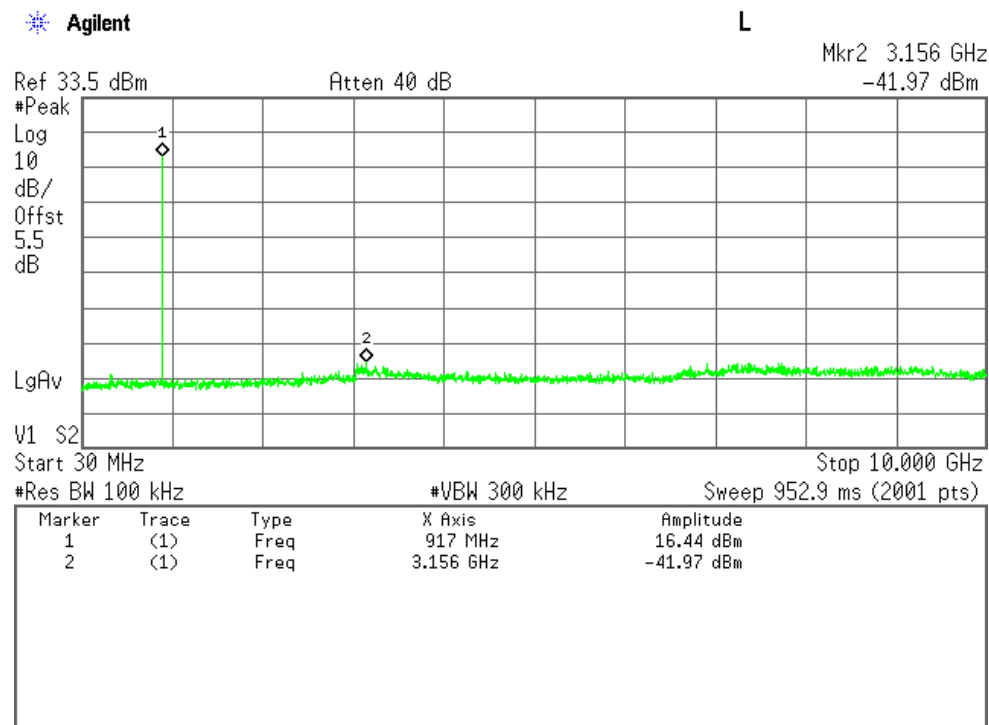
Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

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



Channel 28 (916MHz) – 9kHz to 30MHz



Channel 28 (916MHz) – 30MHz to 10GHz

TEST RESULT					
Channel	Channel Frequency	Measured Parameters		Limit	Result
#	MHz	Frequency (GHz)	Level (dBm)	dBc	
28	916	3.156	-41.97	>20	PASS

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

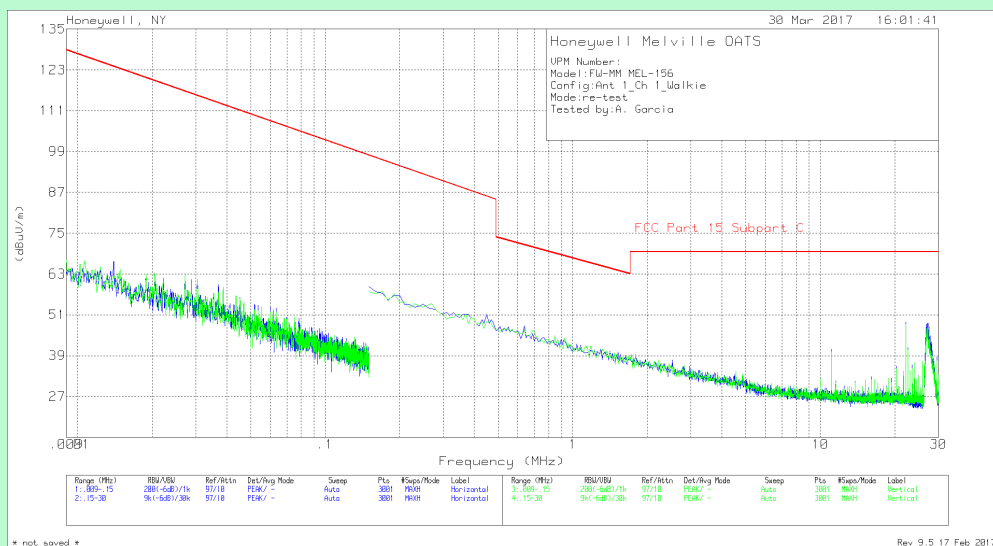
2.8 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2016-09-29	Temperature (°C)	0°C-35°C
Test End Date	2017-04-13	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 15.247 & 15.209		
Test Method	ANSI C63.10 - 2013		
Comment	NA		
TEST DETAILS			
Method	Radiated ☒	Conducted ☐	
TEST PARAMETERS			
Antenna Height	1m to 4m	Turntable Rotation	0° to 360°
Equipment Class	NA	Measurement Distance	3m

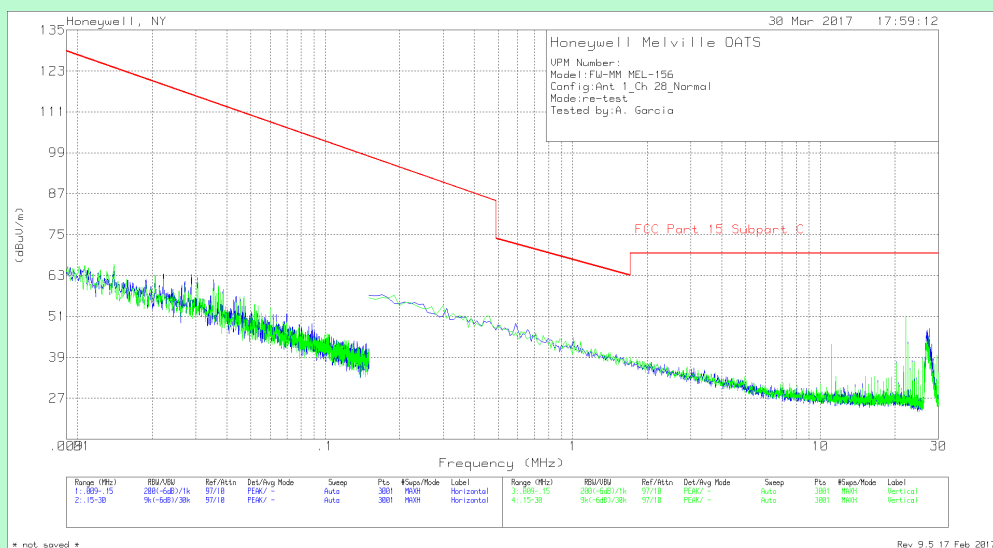
TEST EQUIPMENT					
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Rohde & Schwarz	FSW26	103125	2018-02-14
Y	Spectrum Analyzer	Rohde & Schwarz	FSU26	100303	2017-03-31
Y	Bilog Antenna	Sunol	JB6	A012816	2018-03-09
Y	Bilog Antenna	Sunol	JB5	A022406	2017-12-18
Y	Horn Antenna	EMCO	RGA-60	3127	2017-02-03
Y	Preamplifier (Below 1GHz)	HP	8447D	2443AUF555	NA
Y	Preamplifier (Above 1GHz)	Ampical	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

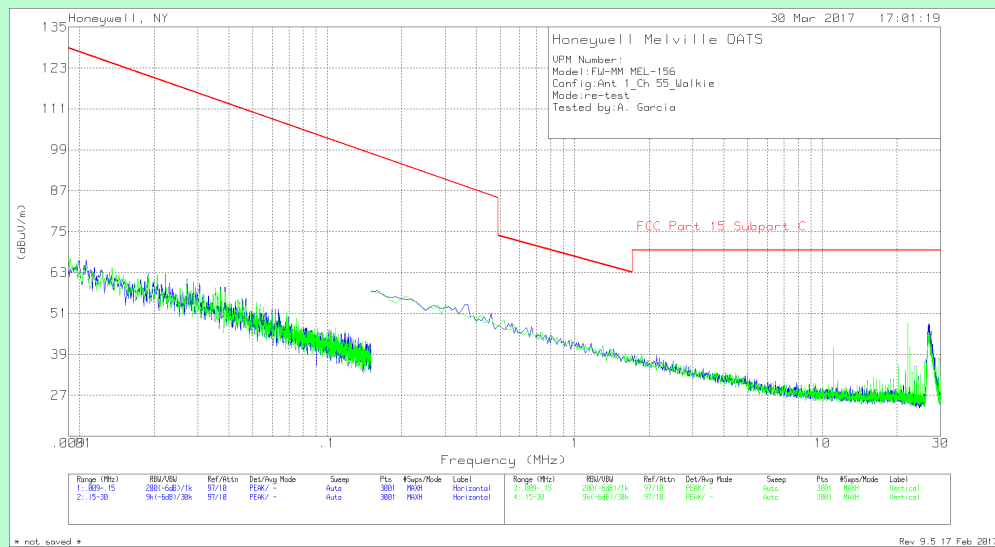
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916.00 MHz) – Antenna 1

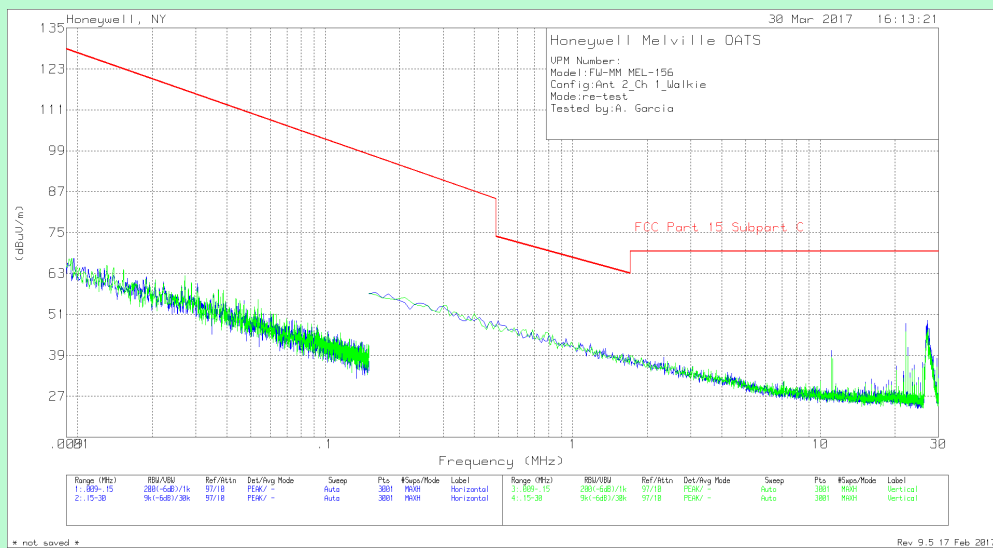


Channel 55 (926.45 MHz) – Antenna 1

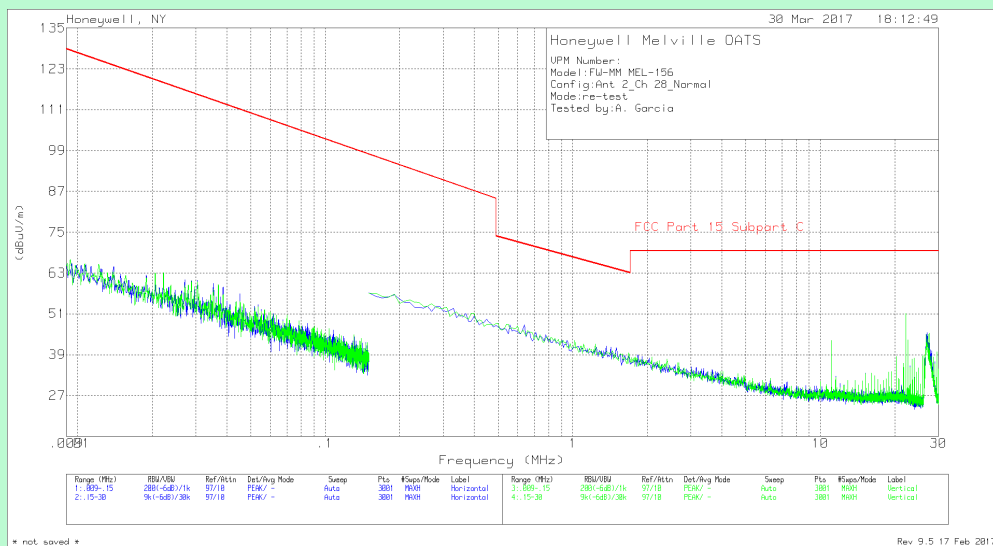
TEST RESULT – 9 KHz to 30 MHz

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									
Note : Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

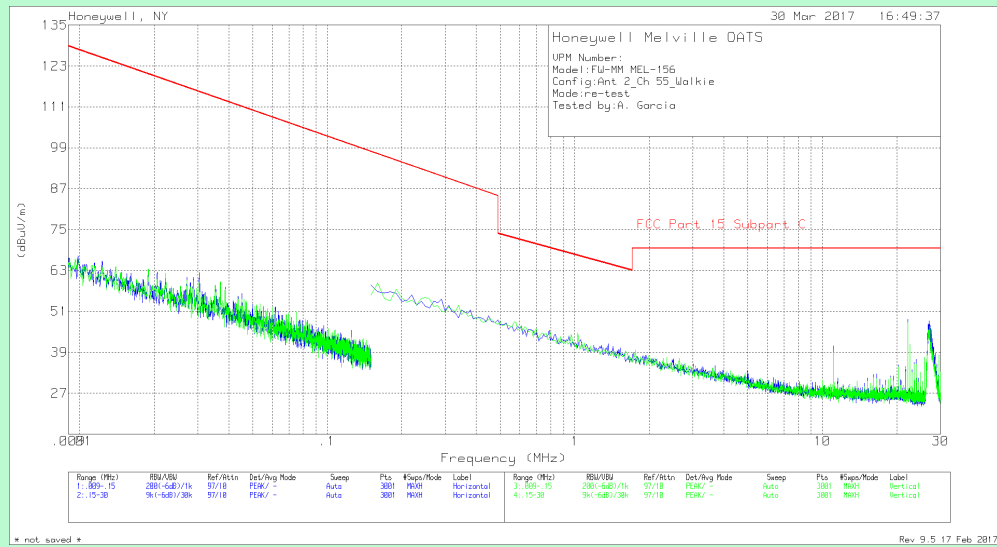
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916.00 MHz) – Antenna 2

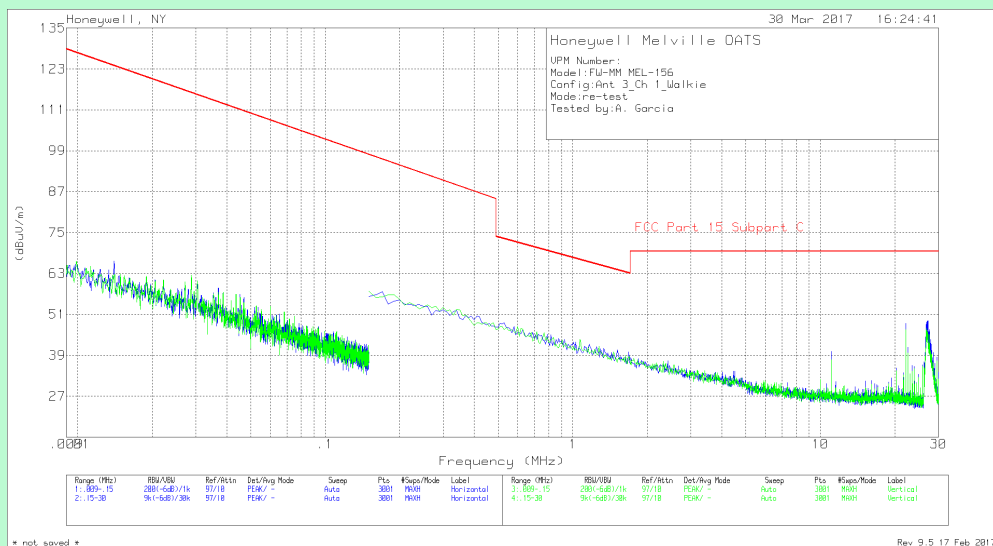


Channel 55 (926.45 MHz) – Antenna 2

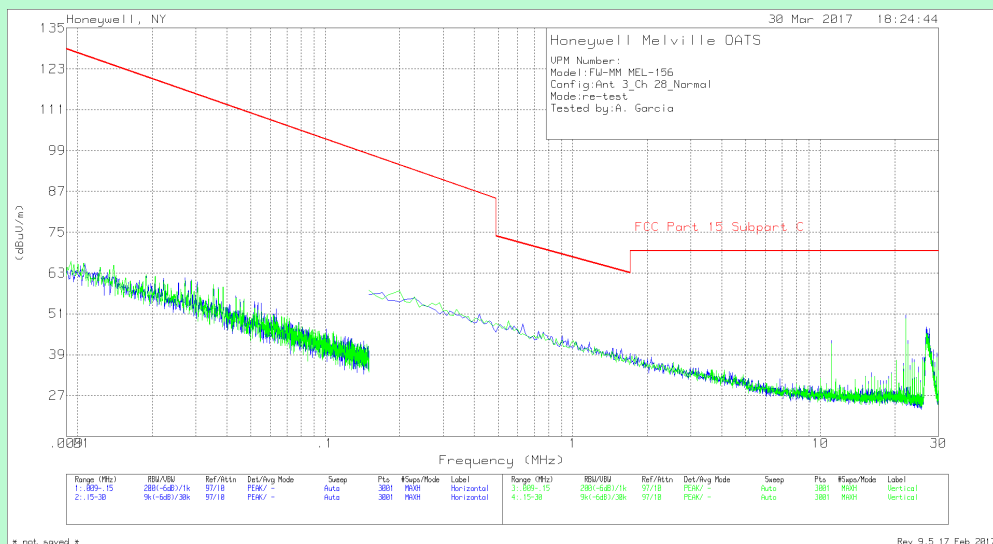
TEST RESULT – 9 KHz to 30 MHz

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									
<u>Note</u> : Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

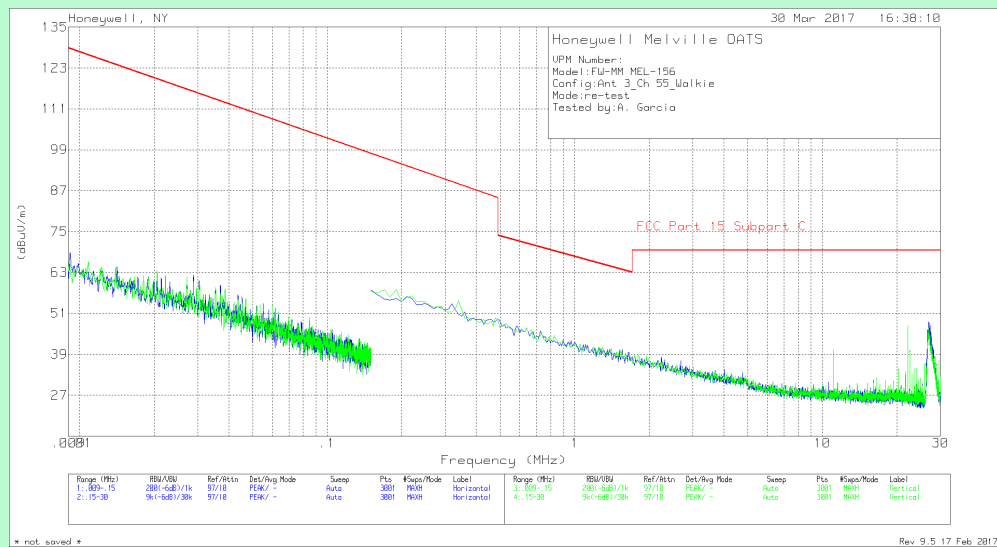
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916.00 MHz) – Antenna 3

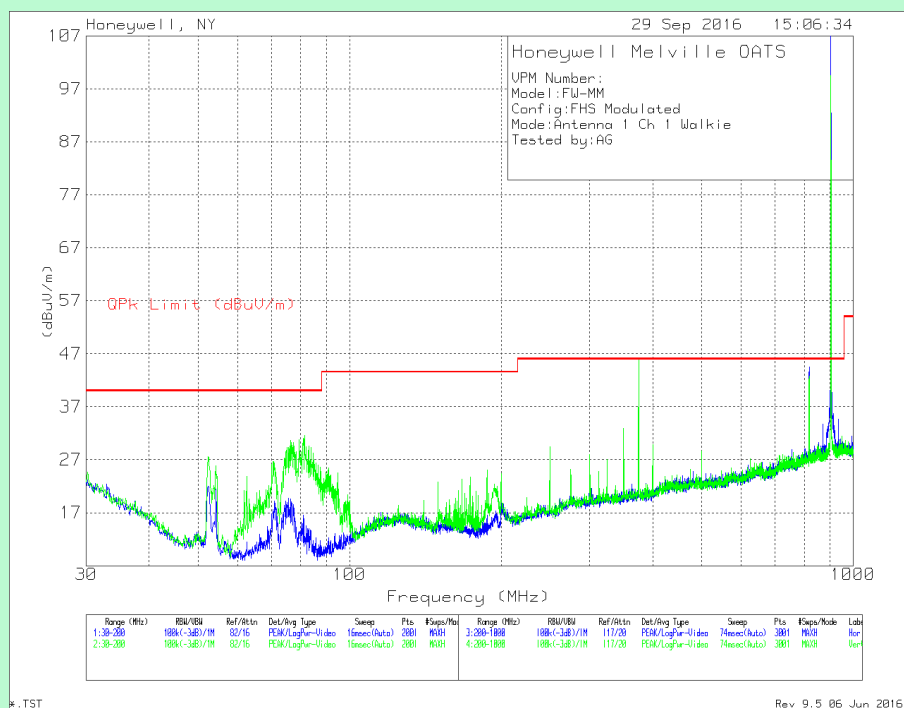


Channel 55 (926.45 MHz) – Antenna 3

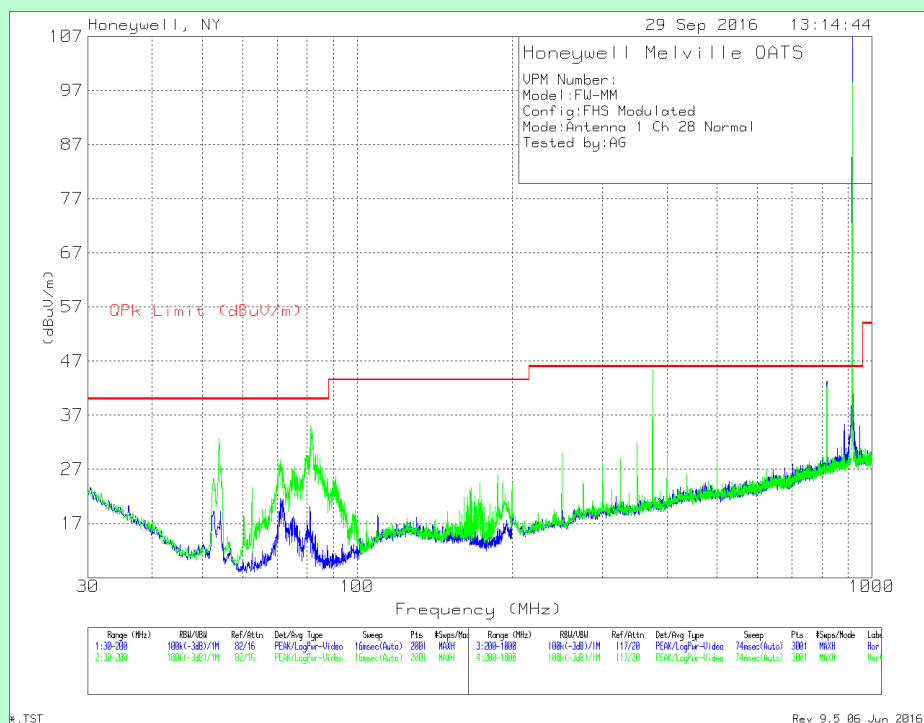
TEST RESULT – 9 KHz to 30 MHz

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									
Note : Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

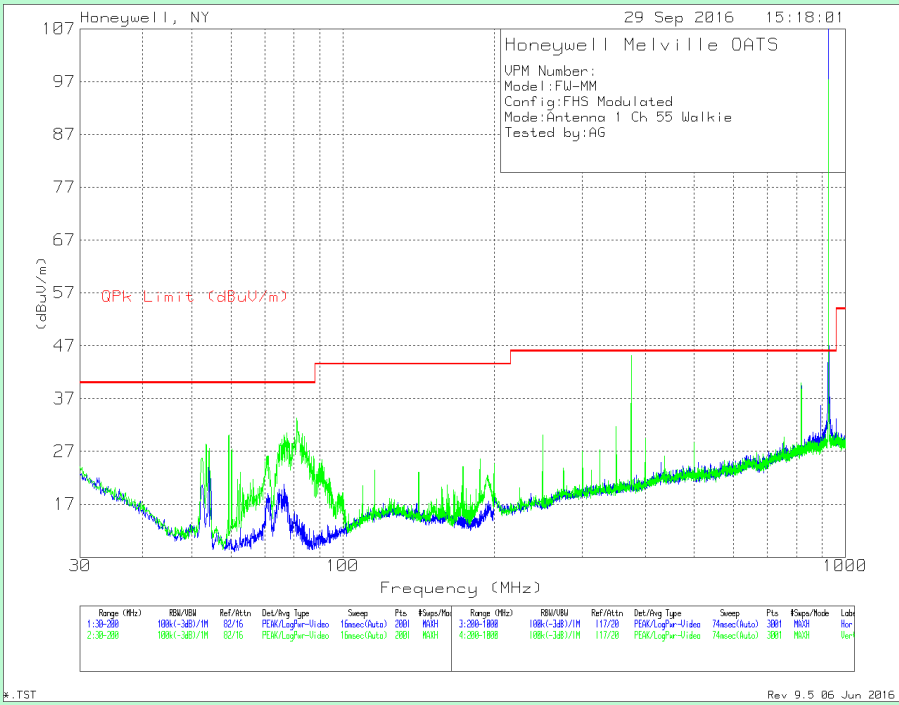
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916.0 MHz) – Antenna 1

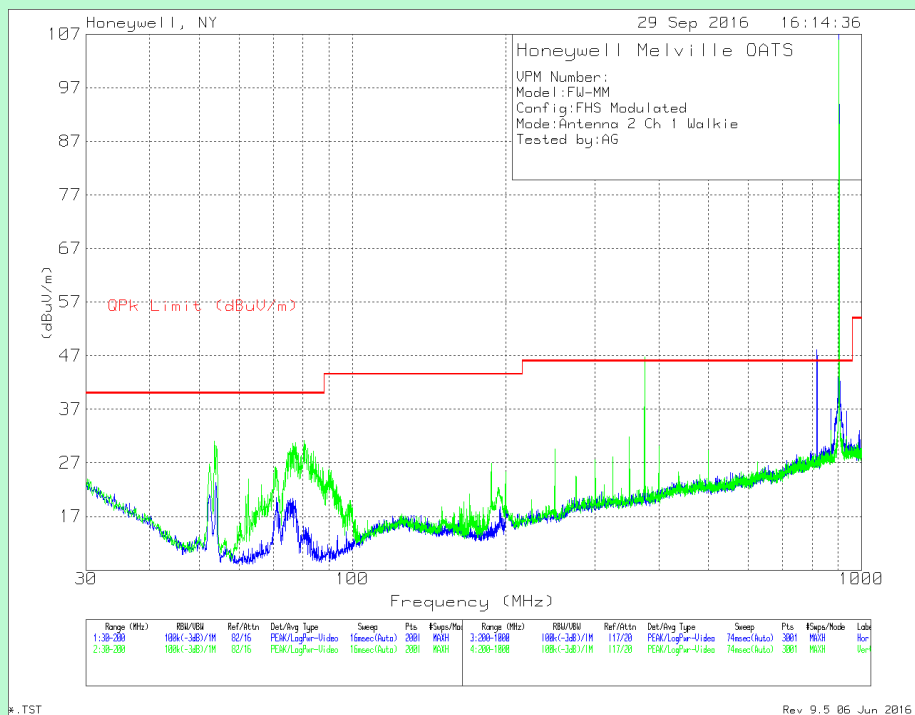


Channel 55 (926.45 MHz) – Antenna 1

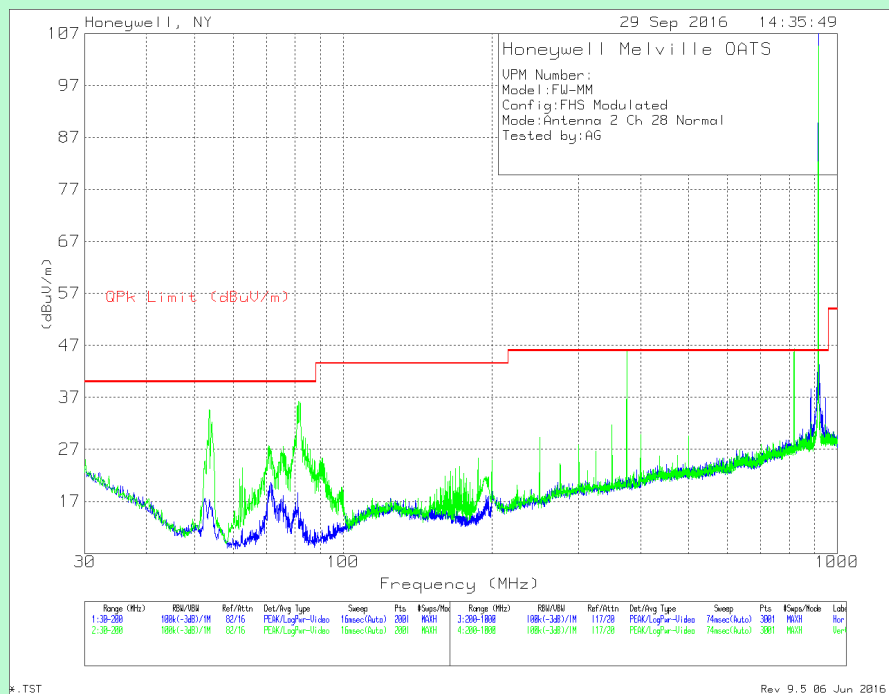
TEST RESULT – 30 MHz to 1 GHz

Channel 1											
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
52.2276	50.11	Qp	12.2	-29	1	34.31	40	5.69	328	170	V
81.2095	42.2	Qp	11.8	-28.9	1.3	26.4	40	13.6	300	118	V
** 903.594	107.17	Pk	27	-27.6	5.5	112.07	-	-	35	101	H
374.9336	29.74	Qp	19.7	-28	3.1	24.54	46.02	21.48	4	234	H
818.1341	29.8	Qp	26.3	-27.9	5.2	33.4	46.02	12.62	324	207	H
** 903.51	98.5	Pk	27	-27.6	5.5	103.4	-	-	255	111	V
374.9336	32.43	Qp	19.7	-28	3.1	27.23	46.02	18.79	324	101	V
Channel 28											
53.885	45.49	Qp	12	-29	1.1	29.59	40	10.41	295	149	V
81.34	39.91	Qp	11.8	-28.9	1.3	24.11	40	15.89	226	214	V
** 915.964	104.89	Pk	27.3	-27.5	5.6	110.29	-	-	69	100	H
374.9336	29.7	Qp	19.7	-28	3.1	24.5	46.02	21.52	356	147	H
818.1341	29.81	Qp	26.3	-27.9	5.2	33.41	46.02	12.61	236	283	H
** 915.956	96.96	Pk	27.3	-27.5	5.6	102.36	-	-	261	109	V
374.9336	29.84	Qp	19.7	-28	3.1	24.64	46.02	21.38	13	339	V
818.1341	41.28	Qp	26.3	-27.9	5.2	44.88	46.02	1.14	352	235	V
Channel 55											
59.325	45.62	Qp	11.9	-29	1.1	29.62	40	10.38	25	156	V
81	38.51	Qp	11.8	-28.9	1.3	22.71	40	17.29	17	299	V
** 926.414	104.26	Pk	27.3	-27.5	5.7	109.76	-	-	20	146	H
374.9336	29.68	Qp	19.7	-28	3.1	24.48	46.02	21.54	332	301	H
817.8674	29.96	Qp	26.3	-27.9	5.2	33.56	46.02	12.46	149	320	H
894.4009	33	Qp	27.1	-27.8	5.5	37.8	46.02	8.22	34	170	H
** 926.498	96.58	Pk	27.3	-27.5	5.7	102.08	-	-	140	145	V
Note * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band ** - indicates intended frequency Pk - Peak detector Qp - Quasi-Peak detector NOTE: Measured Field Strength –dBuV/m (9 KHz to 1GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) - Preamp gain (dB) Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS. Emissions shown in the plot are related to the chamber ambient											

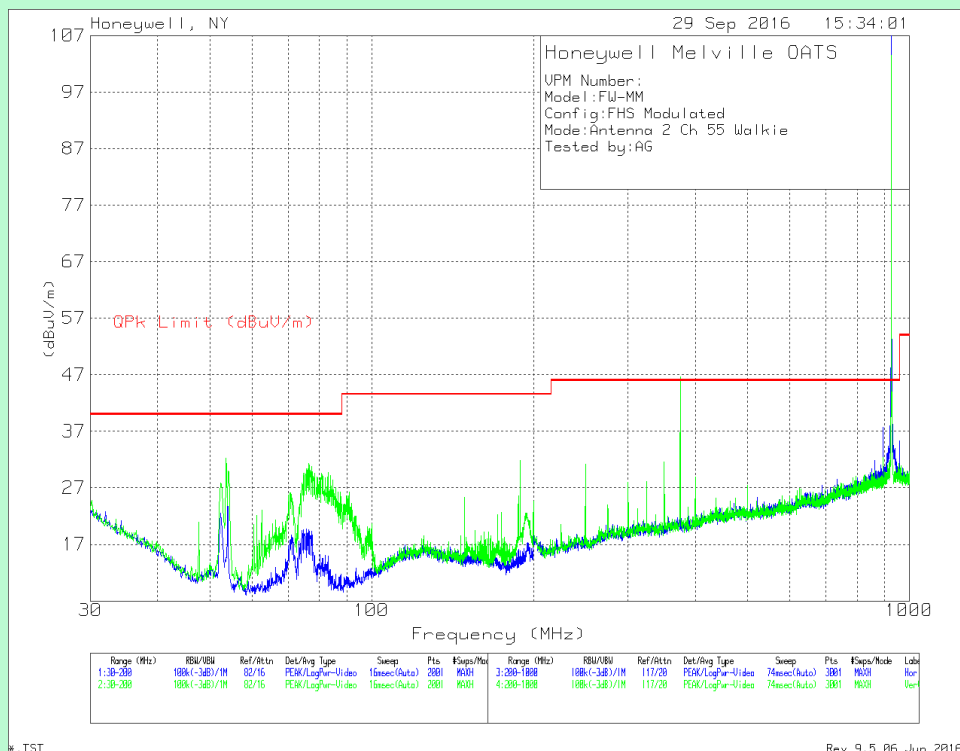
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916.0 MHz) – Antenna 2

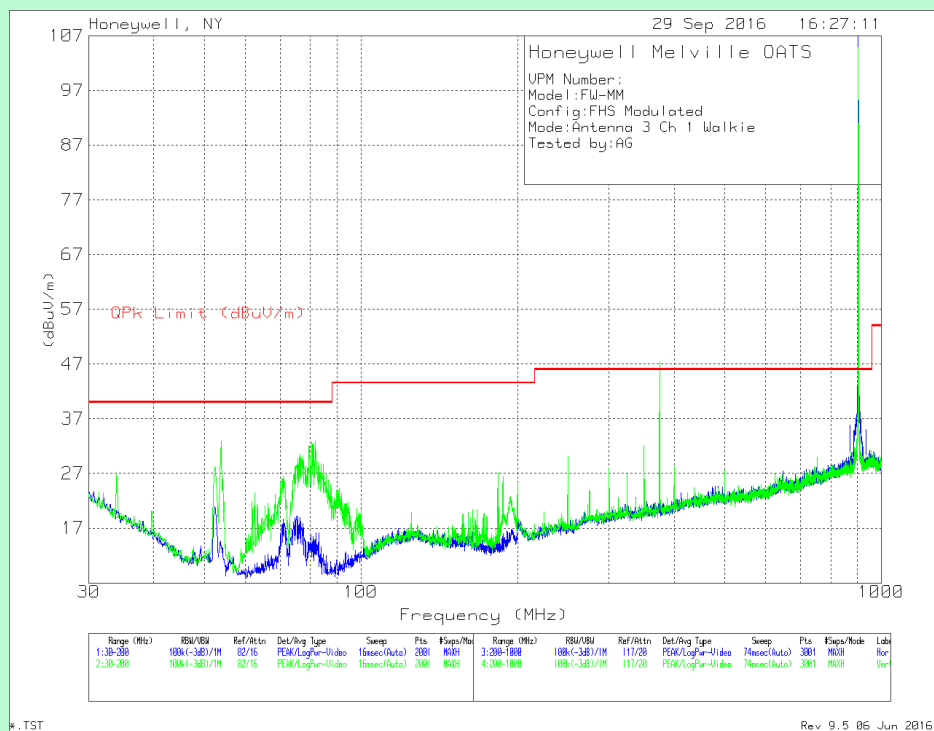


Channel 55 (926.45 MHz) – Antenna 2

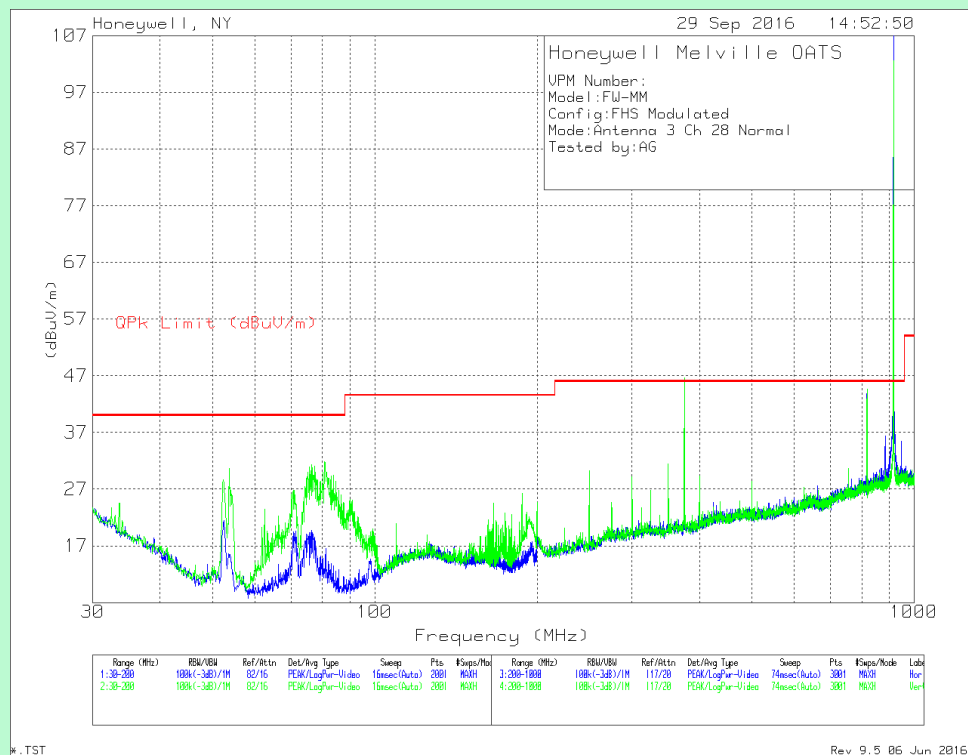
TEST RESULT – 30 MHz to 1 GHz

Channel 1											
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
53.63	45.09	Qp	12	-29	1.1	29.19	40	10.81	349	360	V
80.32	38.33	Qp	11.9	-28.9	1.3	22.63	40	17.37	95	361	V
** 903.61	106.88	Pk	27	-27.6	5.5	111.78	-	-	172	100	H
374.9336	29.78	Qp	19.7	-28	3.1	24.58	46.02	21.44	27	138	H
817.8674	30.64	Qp	26.3	-27.9	5.2	34.24	46.02	11.78	19	365	H
871.4675	25.08	Qp	26.8	-27.9	5.4	29.38	46.02	16.64	103	328	H
** 903.606	98.1	Pk	27	-27.6	5.5	103	-	-	282	150	V
374.9336	29.8	Qp	19.7	-28	3.1	24.6	46.02	21.42	243	359	V
Channel 28											
53.63	44.84	Qp	12	-29	1.1	28.94	40	11.06	222	112	V
81.255	39.4	Qp	11.8	-28.9	1.3	23.6	40	16.4	119	264	V
** 916.06	108.69	Pk	27.3	-27.5	5.6	114.09	-	-	195	100	H
374.9336	29.83	Qp	19.7	-28	3.1	24.63	46.02	21.39	76	226	H
817.6008	29.84	Qp	26.3	-27.9	5.2	33.44	46.02	12.58	78	366	H
** 916.06	97.47	Pk	27.3	-27.5	5.6	102.87	-	-	262	150	V
374.9336	29.88	Qp	19.7	-28	3.1	24.68	46.02	21.34	250	234	V
818.1341	30.27	Qp	26.3	-27.9	5.2	33.87	46.02	12.15	177	308	V
Channel 55											
53.97	33.41	Qp	12	-29	1.1	17.51	40	22.49	167	373	H
53.63	46.53	Qp	12	-29	1.1	30.63	40	9.37	196	166	V
76.495	41.85	Qp	12.1	-28.9	1.3	26.35	40	13.65	37	212	V
189.205	30.84	Qp	15.9	-28.4	2	20.34	43.52	23.18	31	190	V
** 926.498	107.3	Pk	27.3	-27.5	5.7	112.8	-	-	2	147	H
374.9336	29.57	Qp	19.7	-28	3.1	24.37	46.02	21.65	161	212	H
** 926.41	93.39	Pk	27.3	-27.5	5.7	98.89	-	-	263	354	V
374.9336	29.75	Qp	19.7	-28	3.1	24.55	46.02	21.47	293	307	V
Note: * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band ** - indicates intended frequency Pk - Peak detector Qp - Quasi-Peak detector NOTE: Measured Field Strength –dBuV/m (9 KHz to 1GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) - Preamp gain (dB) Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS. Emissions shown in the plot are related to the chamber ambient											

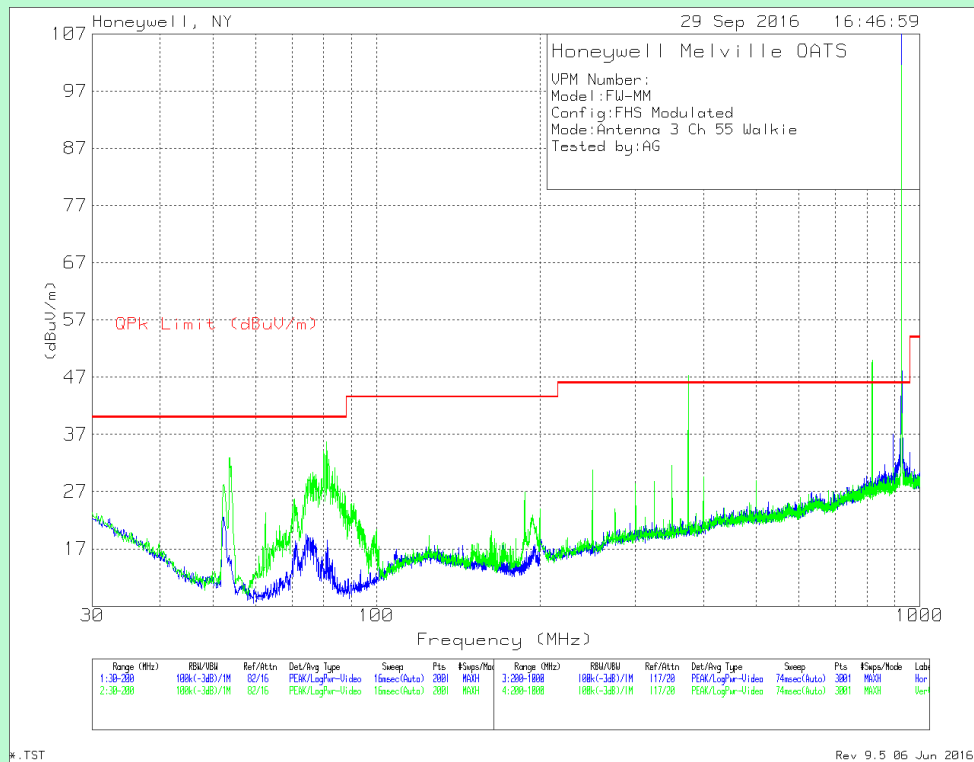
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916.0 MHz) – Antenna 3



Channel 55 (926.45 MHz) – Antenna 3

TEST RESULT – 30 MHz to 1 GHz

Channel 1

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
53.885	45.87	Qp	12	-29	1.1	29.97	40	10.03	210	378	V
80.915	41.6	Qp	11.8	-28.9	1.3	25.8	40	14.2	268	110	V
** 903.606	107.85	Pk	27	-27.6	5.5	112.75	-	-	167	100	H
374.9336	29.82	Qp	19.7	-28	3.1	24.62	46.02	21.4	173	304	H
871.4672	22.36	Qp	26.8	-27.9	5.4	26.66	46.02	19.36	23	101	H
** 903.606	99.11	Pk	27	-27.6	5.5	104.01	-	-	106	228	V
350.1335	29.7	Qp	19.4	-27.9	2.9	24.1	46.02	21.92	219	101	V
374.9336	29.88	Qp	19.7	-28	3.1	24.68	46.02	21.34	138	388	V

Channel 28

53.6718	46.18	Qp	12	-29	1.1	30.28	40	9.72	234	125	V
80.66	41.62	Qp	11.8	-28.9	1.3	25.82	40	14.18	124	184	V
** 916.048	109.39	Pk	27.3	-27.5	5.6	114.79	-	-	163	100	H
374.9336	29.58	Qp	19.7	-28	3.1	24.38	46.02	21.64	261	199	H
817.6008	31.36	Qp	26.3	-27.9	5.2	34.96	46.02	11.06	153	332	H
** 916.052	99.56	Pk	27.3	-27.5	5.6	104.96	-	-	237	109	V
374.9336	29.77	Qp	19.7	-28	3.1	24.57	46.02	21.45	191	169	V
818.1341	31.23	Qp	26.3	-27.9	5.2	34.83	46.02	11.19	285	266	V

Channel 55

53.715	44.29	Qp	12	-29	1.1	28.39	40	11.61	227	400	V
81.085	42.9	Qp	11.8	-28.9	1.3	27.1	40	12.9	112	121	V
** 926.502	108.62	Pk	27.3	-27.5	5.7	114.12	-	-	0	144	H
374.9336	29.6	Qp	19.7	-28	3.1	24.4	46.02	21.62	104	308	H
894.4009	32.78	Qp	27.1	-27.8	5.5	37.58	46.02	8.44	157	114	H
** 926.414	93.22	Pk	27.3	-27.5	5.7	98.72	-	-	118	260	V
374.9336	29.63	Qp	19.7	-28	3.1	24.43	46.02	21.59	2	229	V
818.4008	30.6	Qp	26.3	-27.9	5.2	34.2	46.02	11.82	80	264	V

Note:

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

** - indicates intended frequency

Pk - Peak detector

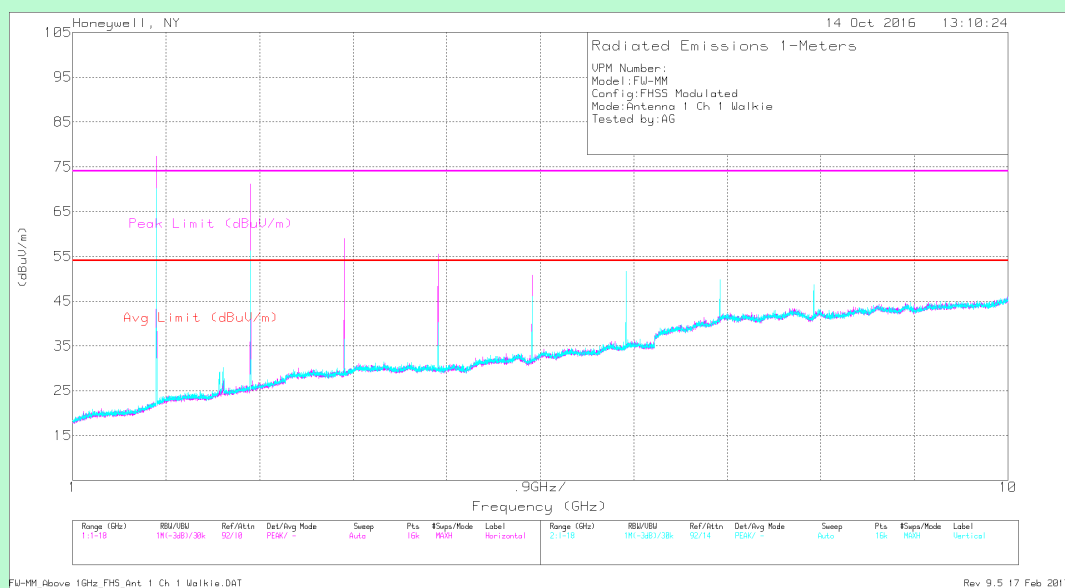
Qp - Quasi-Peak detector

NOTE: Measured Field Strength –dBuV/m (9 KHz to 1GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) - Preamp gain (dB)

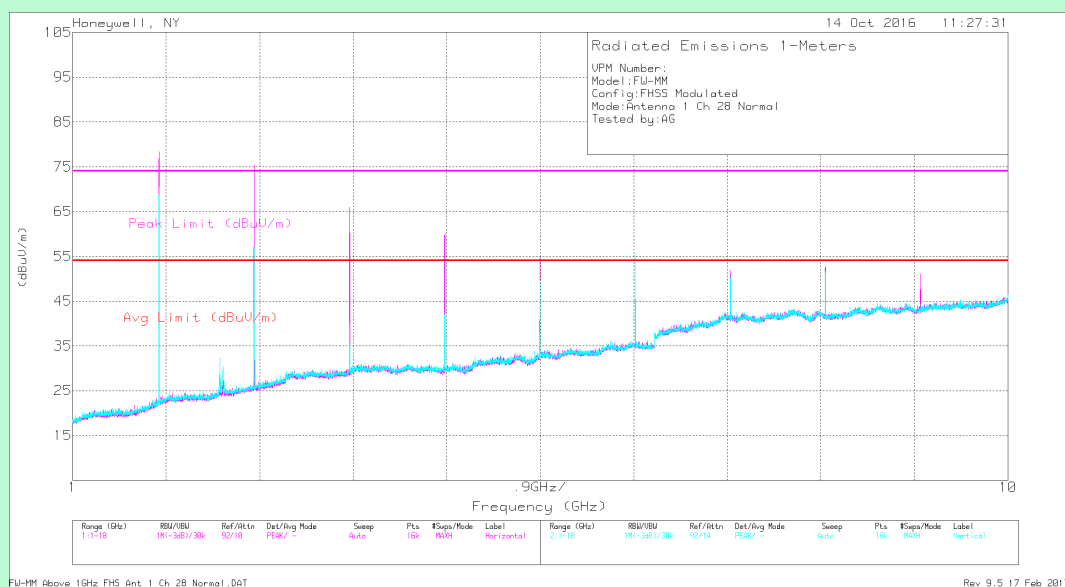
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

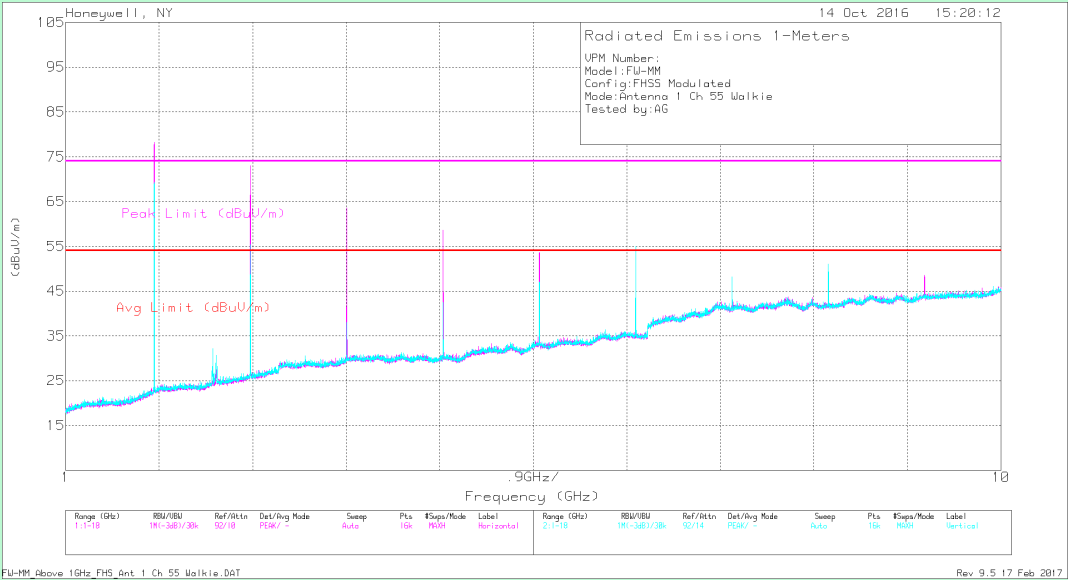
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916.0 MHz) – Antenna 1



Channel 55 (926.45 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
* 2.711	32.8	PKFH	29.3	-27.1	9	44	74	30	271	115	H
* 3.615	31.05	PKFH	31.6	-26.8	10.4	46.25	74	27.75	158	125	H
* 4.519	33.55	PKFH	32.2	-26.6	11.7	50.85	74	23.15	226	247	H
* 5.422	34.52	PKFH	34.3	-26.7	12.9	55.02	74	18.98	183	391	H
* 8.131	34.14	PKFH	37.1	-26.2	16	61.04	74	12.96	321	265	H
* 9.036	33.3	PKFH	37.6	-25.9	16.9	61.9	74	12.1	280	267	H
* 2.711	32.7	PKFH	29.3	-27.1	9	43.9	74	30.1	40	363	V
* 3.615	31.15	PKFH	31.6	-26.8	10.4	46.35	74	27.65	232	132	V
* 4.516	34.1	PKFH	32.2	-26.6	11.7	51.4	74	22.6	301	314	V
* 5.422	33.38	PKFH	34.3	-26.7	12.9	53.88	74	20.12	315	129	V
* 8.132	34.5	PKFH	37.1	-26.2	16	61.4	74	12.6	67	251	V
* 9.034	33.05	PKFH	37.6	-25.9	16.9	61.65	74	12.35	258	107	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
1.807	43.25	PKFH	27.1	-26.9	7.3	50.75	92.1	41.35	236	107	H
6.325	33.52	PKFH	34.9	-26.4	14	56.02	92.1	36.08	156	374	H
7.228	33.38	PKFH	36.3	-26.2	15	58.48	92.1	33.62	315	250	H
1.807	36.82	PKFH	27.1	-26.9	7.3	44.32	92.1	47.78	342	367	V
6.325	36.03	PKFH	34.9	-26.4	14	58.53	92.1	33.57	342	367	V
7.228	36.06	PKFH	36.3	-26.2	15	61.16	92.1	30.94	342	367	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Note:

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \times \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor = $20 \log(1.554 \times 8 / 100) = -18.10\text{dB}$

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.711	20.71	VA1T	29.3	-27.1	9	-	31.91	54	22.09	271	115	H
* 3.614	18.13	VA1T	31.6	-26.8	10.4	-	33.33	54	20.67	158	125	H
* 4.518	20.08	VA1T	32.2	-26.6	11.7	-	37.38	54	16.62	226	247	H
* 5.421	23.29	VA1T	34.3	-26.7	12.9	-	43.79	54	10.21	183	391	H
* 8.133	21.73	VA1T	37.1	-26.2	16	-	48.63	54	5.37	321	265	H
* 9.036	19.47	VA1T	37.6	-25.9	16.9	-	48.07	54	5.93	280	267	H
* 2.711	21.02	VA1T	29.3	-27.1	9	-	32.22	54	21.78	40	363	V
* 3.614	18.07	VA1T	31.6	-26.8	10.4	-	33.27	54	20.73	232	132	V
* 4.518	20.43	VA1T	32.2	-26.6	11.7	-	37.73	54	16.27	301	314	V
* 5.421	21.75	VA1T	34.3	-26.7	12.9	-	42.25	54	11.75	315	129	V
* 8.133	21.84	VA1T	37.1	-26.2	16	-	48.74	54	5.26	67	251	V
* 9.037	19.43	VA1T	37.6	-25.9	16.9	-	48.03	54	5.97	258	107	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor = $20 \log(1.554 \times 8 / 100) = -18.10\text{dB}$

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 28

PEAK DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamplifier [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.748	32.76	PKFH	29.4	-27	9	44.16	74	29.84	270	168	H
* 3.665	30.99	PKFH	31.8	-26.9	10.4	46.29	74	27.71	42	308	H
* 4.581	33.25	PKFH	32.2	-26.7	11.8	50.55	74	23.45	26	212	H
* 7.329	32.68	PKFH	36.7	-26.2	15.1	58.28	74	15.72	209	123	H
* 8.245	32.45	PKFH	37.1	-26.1	16.2	59.65	74	14.35	1	319	H
* 9.162	32.16	PKFH	37.6	-25.9	17	60.86	74	13.14	220	385	H
* 2.748	33.99	PKFH	29.4	-27	9	45.39	74	28.61	236	358	V
* 3.665	31.46	PKFH	31.8	-26.9	10.4	46.76	74	27.24	89	338	V
* 4.578	34.03	PKFH	32.2	-26.7	11.8	51.33	74	22.67	181	204	V
* 7.328	34.51	PKFH	36.7	-26.2	15.1	60.11	74	13.89	254	268	V
* 8.244	32.94	PKFH	37.1	-26.1	16.2	60.14	74	13.86	299	373	V
* 9.161	32.54	PKFH	37.6	-25.9	17	61.24	74	12.76	161	139	V

PEAK DATA – NON RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamplifier [dB]	SMA1 [dB]	Corrected Reading (dBuV/m)	Peak Limit [Fundamental-20dBc] (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.832	39.52	PKFH	27.3	-26.9	7.3	47.22	90.3	43.08	348	273	H
5.497	32.64	PKFH	34.4	-26.6	13	53.44	90.3	36.86	174	389	H
6.413	36.46	PKFH	34.8	-26.3	14.1	59.06	90.3	31.24	99	273	H
1.832	34.54	PKFH	27.3	-26.9	7.3	42.24	90.3	48.06	166	355	V
5.495	31	PKFH	34.4	-26.6	13	51.8	90.3	38.5	175	354	V
6.412	35.27	PKFH	34.8	-26.3	14.1	57.87	90.3	32.43	195	397	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamplifier [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.748	21.15	VA1T	29.4	-27	9	-	32.55	54	21.45	270	168	H
* 3.664	18.31	VA1T	31.8	-26.9	10.4	-	33.61	54	20.39	42	308	H
* 4.58	19.42	VA1T	32.2	-26.7	11.8	-	36.72	54	17.28	26	212	H
* 7.329	19.92	VA1T	36.7	-26.2	15.1	-	45.52	54	8.48	209	123	H
* 8.245	20	VA1T	37.1	-26.1	16.2	-	47.2	54	6.8	1	319	H
* 9.161	19.18	VA1T	37.6	-25.9	17	-	47.88	54	6.12	220	385	H
* 2.748	22.27	VA1T	29.4	-27	9	-	33.67	54	20.33	236	358	V
* 3.664	18.49	VA1T	31.8	-26.9	10.4	-	33.79	54	20.21	89	338	V
* 4.58	19.81	VA1T	32.2	-26.7	11.8	-	37.11	54	16.89	181	204	V
* 7.329	21.74	VA1T	36.7	-26.2	15.1	-	47.34	54	6.66	254	268	V
* 8.245	19.89	VA1T	37.1	-26.1	16.2	-	47.09	54	6.91	299	373	V
* 9.162	19.2	VA1T	37.6	-25.9	17	-	47.9	54	6.1	161	139	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band

PKFH - FHSS: RB=1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec

Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 55

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
* 2.779	32.79	PKFH	29.5	-27.1	9.1	44.29	74	29.71	197	236	H
* 3.706	32.03	PKFH	32	-26.9	10.6	47.73	74	26.27	142	389	H
* 4.634	34.06	PKFH	32.4	-26.6	11.8	51.66	74	22.34	110	307	H
* 7.411	33.58	PKFH	36.8	-26.2	15.2	59.38	74	14.62	304	275	H
* 8.339	33.31	PKFH	37.3	-26.1	16.2	60.71	74	13.29	12	252	H
* 2.779	32.57	PKFH	29.5	-27.1	9.1	44.07	74	29.93	90	162	V
* 3.708	31.66	PKFH	32	-26.9	10.6	47.36	74	26.64	231	387	V
* 4.631	33.88	PKFH	32.3	-26.6	11.8	51.38	74	22.62	144	251	V
* 7.412	32.43	PKFH	36.8	-26.2	15.2	58.23	74	15.77	186	328	V
* 8.34	32.71	PKFH	37.3	-26.1	16.2	60.11	74	13.89	227	367	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	39.1	PKFH	27.5	-26.9	7.4	47.1	89.8	42.7	69	152	H
5.56	31.87	PKFH	34.4	-26.4	13.1	52.97	89.8	36.83	23	190	H
6.486	35.05	PKFH	34.8	-26.4	14.2	57.65	89.8	32.15	113	272	H
9.265	32.49	PKFH	37.8	-26	17.1	61.39	89.8	28.41	160	286	H
1.853	33.44	PKFH	27.5	-26.9	7.4	41.44	89.8	48.36	183	128	V
5.56	31.78	PKFH	34.4	-26.4	13.1	52.88	89.8	36.92	52	193	V
6.485	35.32	PKFH	34.8	-26.4	14.2	57.92	89.8	31.88	146	384	V
9.263	32	PKFH	37.8	-26	17.1	60.9	89.8	28.9	172	146	V

AVERAGE DATA- RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.779	20.44	VA1T	29.5	-27.1	9.1	-	31.94	54	22.06	197	236	H
* 3.706	19.24	VA1T	32	-26.9	10.6	-	34.94	54	19.06	142	389	H
* 4.633	19.8	VA1T	32.4	-26.6	11.8	-	37.4	54	16.6	110	307	H
* 7.411	20.55	VA1T	36.8	-26.2	15.2	-	46.35	54	7.65	304	275	H
* 8.339	20.29	VA1T	37.3	-26.1	16.2	-	47.69	54	6.31	12	252	H
* 2.779	20.05	VA1T	29.5	-27.1	9.1	-	31.55	54	22.45	90	162	V
* 3.706	18.96	VA1T	32	-26.9	10.6	-	34.66	54	19.34	231	387	V
* 4.633	19.9	VA1T	32.4	-26.6	11.8	-	37.5	54	16.5	144	251	V
* 7.411	19.7	VA1T	36.8	-26.2	15.2	-	45.5	54	8.5	186	328	V
* 8.339	19.26	VA1T	37.3	-26.1	16.2	-	46.66	54	7.34	227	367	V
9.266	19.04	VA1T	37.8	-26	17.1	-	47.94	54	6.06	172	146	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

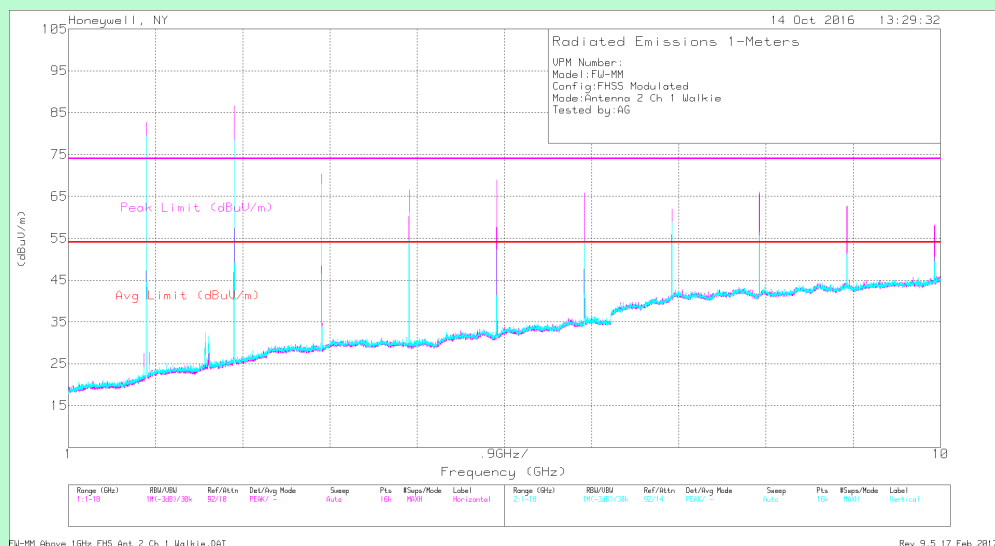
Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

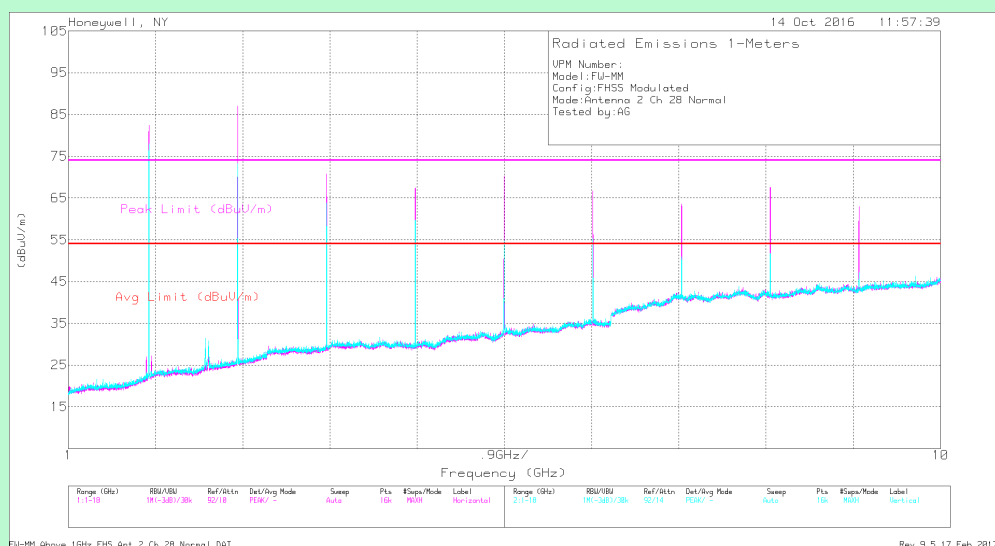
Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \times \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor = $20 \log(1.554 \times 8 / 100) = -18.10\text{dB}$

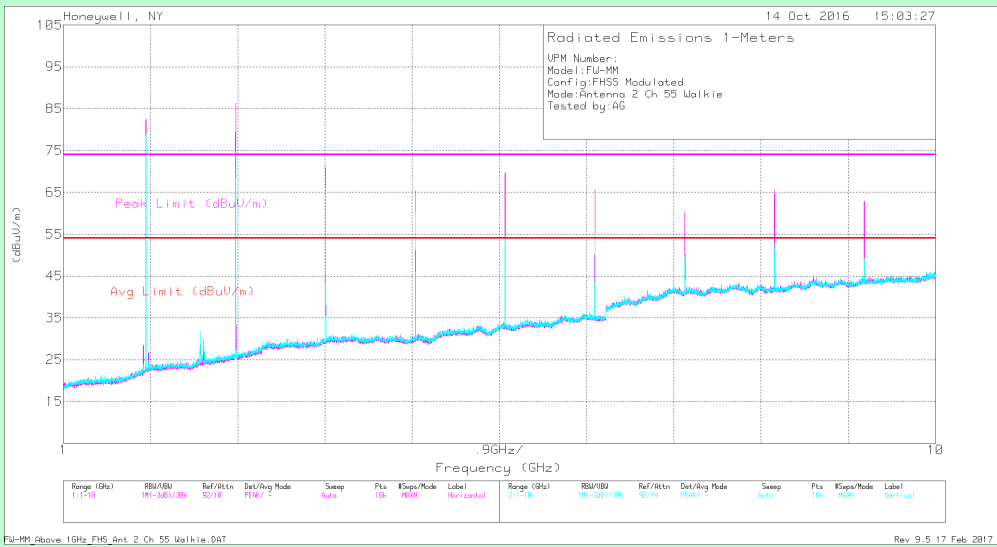
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916.0 MHz) – Antenna 2



Channel 55 (926.45 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
* 2.71	39.62	PKFH	29.3	-27.1	9	50.82	74	23.18	88	144	H
* 3.615	30.7	PKFH	31.6	-26.8	10.4	45.9	74	28.1	52	287	H
* 4.519	32.43	PKFH	32.2	-26.6	11.7	49.73	74	24.27	60	330	H
* 5.421	32.04	PKFH	34.3	-26.7	12.9	52.54	74	21.46	351	256	H
* 8.132	33.41	PKFH	37.1	-26.2	16	60.31	74	13.69	336	253	H
* 9.035	33.17	PKFH	37.6	-25.9	16.9	61.77	74	12.23	300	100	H
* 2.711	36.66	PKFH	29.3	-27.1	9	47.86	74	26.14	326	132	V
* 3.614	31.49	PKFH	31.6	-26.8	10.4	46.69	74	27.31	120	133	V
* 4.518	33.3	PKFH	32.2	-26.6	11.7	50.6	74	23.4	83	278	V
* 5.421	31.89	PKFH	34.3	-26.7	12.9	52.39	74	21.61	130	270	V
* 8.132	32.12	PKFH	37.1	-26.2	16	59.02	74	14.98	177	156	V
* 9.037	32.79	PKFH	37.6	-25.9	16.9	61.39	74	12.61	237	357	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
1.807	47.68	PKFH	27.1	-26.9	7.3	55.18	91.8	36.62	5	145	H
6.325	33.73	PKFH	34.9	-26.4	14	56.23	91.8	35.57	313	260	H
7.229	33.1	PKFH	36.3	-26.2	15	58.2	91.8	33.6	327	266	H
1.807	43.83	PKFH	27.1	-26.9	7.3	51.33	91.8	40.47	217	131	V
6.324	34.7	PKFH	34.9	-26.4	14	57.2	91.8	34.6	28	109	V
7.227	32.55	PKFH	36.3	-26.2	15	57.65	91.8	34.15	296	233	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.711	35.24	VA1T	29.3	-27.1	9	-	46.44	54	7.56	88	144	H
* 3.614	18.39	VA1T	31.6	-26.8	10.4	-	33.59	54	20.41	52	287	H
* 4.518	20.36	VA1T	32.2	-26.6	11.7	-	37.66	54	16.34	60	330	H
* 5.421	19.83	VA1T	34.3	-26.7	12.9	-	40.33	54	13.67	351	256	H
* 8.133	20.44	VA1T	37.1	-26.2	16	-	47.34	54	6.66	336	253	H
* 9.037	19.52	VA1T	37.6	-25.9	16.9	-	48.12	54	5.88	300	100	H
* 2.711	29.93	VA1T	29.3	-27.1	9	-	41.13	54	12.87	326	132	V
* 3.614	17.91	VA1T	31.6	-26.8	10.4	-	33.11	54	20.89	120	133	V
* 4.518	20.17	VA1T	32.2	-26.6	11.7	-	37.47	54	16.53	83	278	V
* 5.422	19.09	VA1T	34.3	-26.7	12.9	-	39.59	54	14.41	130	270	V
* 8.134	18.98	VA1T	37.1	-26.2	16	-	45.88	54	8.12	177	156	V
* 9.037	19.53	VA1T	37.6	-25.9	16.9	-	48.13	54	5.87	237	357	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 28

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
* 2.748	41.59	PKFH	29.4	-27	9	52.99	74	21.01	89	105	H
* 3.662	30.85	PKFH	31.8	-26.9	10.4	46.15	74	27.85	243	377	H
* 4.58	32.88	PKFH	32.2	-26.7	11.8	50.18	74	23.82	289	155	H
* 8.243	32.04	PKFH	37.1	-26.1	16.2	59.24	74	14.76	272	336	H
* 9.159	32.57	PKFH	37.6	-25.9	17	61.27	74	12.73	168	221	H
* 2.748	36.82	PKFH	29.4	-27	9	48.22	74	25.78	89	104	V
* 3.664	32.15	PKFH	31.8	-26.9	10.4	47.45	74	26.55	100	325	V
* 4.579	33.26	PKFH	32.2	-26.7	11.8	50.56	74	23.44	244	214	V
* 7.328	33.27	PKFH	36.7	-26.2	15.1	58.87	74	15.13	329	245	V
* 8.244	33.47	PKFH	37.1	-26.1	16.2	60.67	74	13.33	10	266	V
* 9.159	32.19	PKFH	37.6	-25.9	17	60.89	74	13.11	30	361	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
1.832	48.73	PKFH	27.3	-26.9	7.3	56.43	94.1	37.67	194	108	H
5.497	32.07	PKFH	34.4	-26.6	13	52.87	94.1	41.23	226	263	H
6.413	34.91	PKFH	34.8	-26.3	14.1	57.51	94.1	36.59	100	298	H
7.24	32.75	PKFH	36.4	-26.2	15	57.95	94.1	36.15	110	391	H
1.832	43.31	PKFH	27.3	-26.9	7.3	51.01	94.1	43.09	219	104	V
5.497	32.07	PKFH	34.4	-26.6	13	52.87	94.1	41.23	284	354	V
6.411	32.5	PKFH	34.8	-26.3	14.1	55.1	94.1	39	198	257	V

AVERAGE DATA – RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.748	37.52	VA1T	29.4	-27	9	-	48.92	54	5.08	89	105	H
* 3.664	18.58	VA1T	31.8	-26.9	10.4	-	33.88	54	20.12	243	377	H
* 4.58	19.55	VA1T	32.2	-26.7	11.8	-	36.85	54	17.15	289	155	H
* 8.245	18.76	VA1T	37.1	-26.1	16.2	-	45.96	54	8.04	272	336	H
* 9.162	19.18	VA1T	37.6	-25.9	17	-	47.88	54	6.12	168	221	H
* 2.748	30.26	VA1T	29.4	-27	9	-	41.66	54	12.34	89	104	V
* 3.664	18.67	VA1T	31.8	-26.9	10.4	-	33.97	54	20.03	100	325	V
* 4.58	19.63	VA1T	32.2	-26.7	11.8	-	36.93	54	17.07	244	214	V
* 7.328	20.14	VA1T	36.7	-26.2	15.1	-	45.74	54	8.26	329	245	V
* 8.245	20.31	VA1T	37.1	-26.1	16.2	-	47.51	54	6.49	10	266	V
* 9.162	19.21	VA1T	37.6	-25.9	17	-	47.91	54	6.09	30	361	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 55

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
* 2.779	41.33	PKFH	29.5	-27.1	9.1	52.83	74	21.17	84	138	H
* 3.705	31.86	PKFH	32	-26.9	10.6	47.56	74	26.44	287	200	H
* 4.634	32.99	PKFH	32.4	-26.6	11.8	50.59	74	23.41	148	138	H
* 7.413	33.03	PKFH	36.8	-26.2	15.2	58.83	74	15.17	232	342	H
* 8.338	32.68	PKFH	37.3	-26.1	16.2	60.08	74	13.92	352	275	H
* 2.779	37.86	PKFH	29.5	-27.1	9.1	49.36	74	24.64	282	194	V
* 3.707	31.96	PKFH	32	-26.9	10.6	47.66	74	26.34	171	240	V
* 4.633	33.45	PKFH	32.4	-26.6	11.8	51.05	74	22.95	13	125	V
* 7.412	32.54	PKFH	36.8	-26.2	15.2	58.34	74	15.66	240	310	V
* 8.34	32.58	PKFH	37.3	-26.1	16.2	59.98	74	14.02	246	102	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	46.45	PKFH	27.5	-26.9	7.4	54.45	92.8	38.35	179	177	H
5.558	32.17	PKFH	34.4	-26.4	13.1	53.27	92.8	39.53	323	268	H
6.486	34.22	PKFH	34.8	-26.4	14.2	56.82	92.8	35.98	316	270	H
9.266	31.74	PKFH	37.8	-26	17.1	60.64	92.8	32.16	144	246	H
1.853	42.22	PKFH	27.5	-26.9	7.4	50.22	92.8	42.58	208	130	V
5.559	31.08	PKFH	34.4	-26.4	13.1	52.18	92.8	40.62	143	376	V
6.485	35.18	PKFH	34.8	-26.4	14.2	57.78	92.8	35.02	159	303	V
9.265	31.79	PKFH	37.8	-26	17.1	60.69	92.8	32.11	43	279	V

AVERAGE DATA-RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.779	37.4	VA1T	29.5	-27.1	9.1	-	48.9	54	5.1	84	138	H
* 3.706	18.42	VA1T	32	-26.9	10.6	-	34.12	54	19.88	287	200	H
* 4.633	19.77	VA1T	32.4	-26.6	11.8	-	37.37	54	16.63	148	138	H
* 7.414	19.25	VA1T	36.8	-26.2	15.2	-	45.05	54	8.95	232	342	H
* 8.339	19.47	VA1T	37.3	-26.1	16.2	-	46.87	54	7.13	352	275	H
* 2.779	33.03	VA1T	29.5	-27.1	9.1	-	44.53	54	9.47	282	194	V
* 3.706	18.44	VA1T	32	-26.9	10.6	-	34.14	54	19.86	171	240	V
* 4.632	19.84	VA1T	32.4	-26.6	11.8	-	37.44	54	16.56	13	125	V
* 7.411	19.59	VA1T	36.8	-26.2	15.2	-	45.39	54	8.61	240	310	V
* 8.339	19.57	VA1T	37.3	-26.1	16.2	-	46.97	54	7.03	246	102	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band

PKFH - FHSS: RB=1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

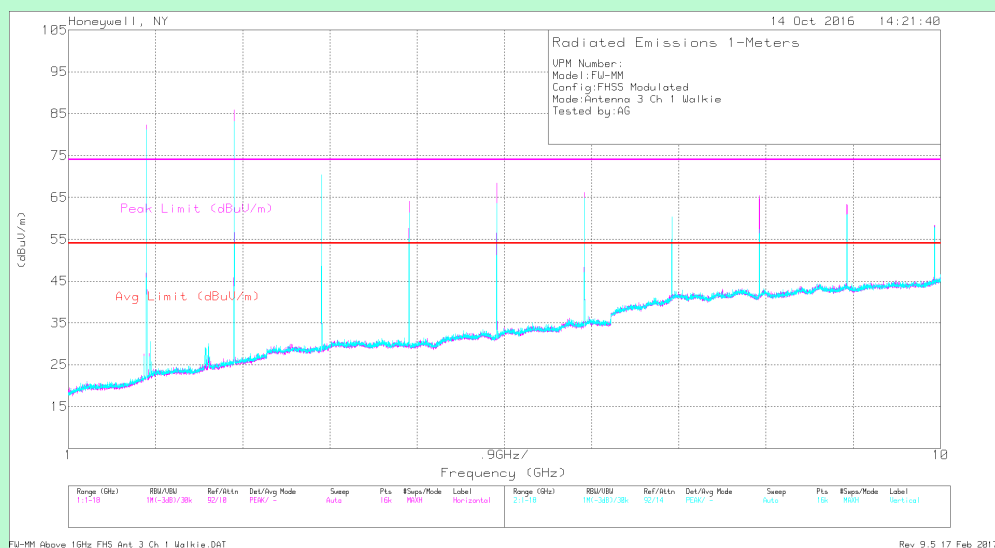
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

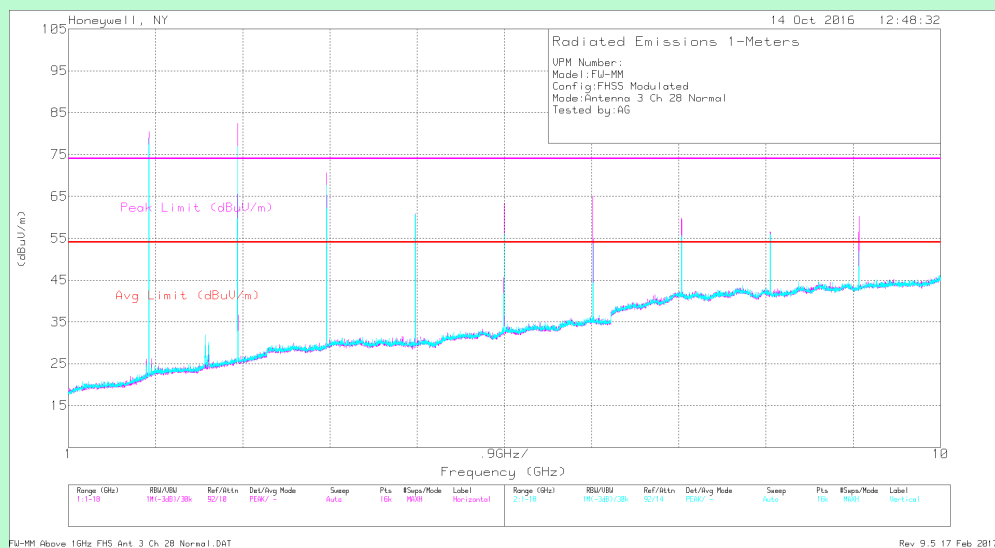
Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec

Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

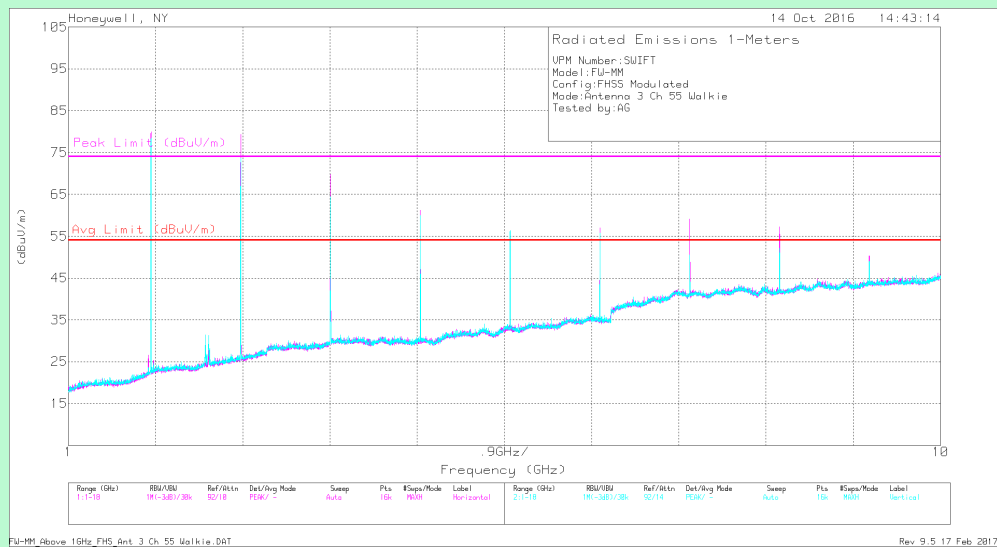
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916.0 MHz) – Antenna 3



Channel 55 (926.45 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
* 2.711	34.78	PKFH	29.3	-27.1	9	45.98	74	28.02	101	130	H
* 3.614	32	PKFH	31.6	-26.8	10.4	47.2	74	26.8	280	293	H
* 4.519	33.58	PKFH	32.2	-26.6	11.7	50.88	74	23.12	313	180	H
* 5.421	31.77	PKFH	34.3	-26.7	12.9	52.27	74	21.73	234	316	H
* 8.132	32.51	PKFH	37.1	-26.2	16	59.41	74	14.59	360	264	H
* 9.034	32.6	PKFH	37.6	-25.9	16.9	61.2	74	12.8	253	182	H
* 2.711	34.31	PKFH	29.3	-27.1	9	45.51	74	28.49	47	166	V
* 3.616	31.82	PKFH	31.6	-26.8	10.4	47.02	74	26.98	6	151	V
* 4.518	32.05	PKFH	32.2	-26.6	11.7	49.35	74	24.65	45	277	V
* 5.421	32.22	PKFH	34.3	-26.7	12.9	52.72	74	21.28	323	294	V
* 8.131	31.66	PKFH	37.1	-26.2	16	58.56	74	15.44	151	269	V
* 9.037	32.69	PKFH	37.6	-25.9	16.9	61.29	74	12.71	10	175	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
1.807	44.13	PKFH	27.1	-26.9	7.3	51.63	92.8	41.17	159	111	H
6.324	33.21	PKFH	34.9	-26.4	14	55.71	92.8	37.09	136	365	H
7.228	33.28	PKFH	36.3	-26.2	15	58.38	92.8	34.42	139	264	H
1.807	37.49	PKFH	27.1	-26.9	7.3	44.99	92.8	47.81	247	135	V
6.324	33.49	PKFH	34.9	-26.4	14	55.99	92.8	36.81	34	282	V
7.228	34.3	PKFH	36.3	-26.2	15	59.4	92.8	33.4	256	233	V

AVERAGE DATA-RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.711	26.66	VA1T	29.3	-27.1	9	-	37.86	54	16.14	101	130	H
* 3.614	18.04	VA1T	31.6	-26.8	10.4	-	33.24	54	20.76	280	293	H
* 4.52	20.13	VA1T	32.2	-26.6	11.7	-	37.43	54	16.57	313	180	H
* 5.422	18.65	VA1T	34.3	-26.7	12.9	-	39.15	54	14.85	234	316	H
* 8.133	20.14	VA1T	37.1	-26.2	16	-	47.04	54	6.96	360	264	H
* 9.037	19.45	VA1T	37.6	-25.9	16.9	-	48.05	54	5.95	253	182	H
* 2.711	21.87	VA1T	29.3	-27.1	9	-	33.07	54	20.93	47	166	V
* 3.614	17.86	VA1T	31.6	-26.8	10.4	-	33.06	54	20.94	6	151	V
* 4.52	20.09	VA1T	32.2	-26.6	11.7	-	37.39	54	16.61	45	277	V
* 5.422	19.29	VA1T	34.3	-26.7	12.9	-	39.79	54	14.21	323	294	V
* 8.133	19.08	VA1T	37.1	-26.2	16	-	45.98	54	8.02	151	269	V
* 9.037	19.5	VA1T	37.6	-25.9	16.9	-	48.1	54	5.9	10	175	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band

PKFH - FHSS: RB=1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec

Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 28

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
* 2.748	36.96	PKFH	29.4	-27	9	48.36	74	25.64	88	105	H
* 3.663	31.75	PKFH	31.8	-26.9	10.4	47.05	74	26.95	5	389	H
* 4.581	32.33	PKFH	32.2	-26.7	11.8	49.63	74	24.37	47	368	H
* 7.328	33.58	PKFH	36.7	-26.2	15.1	59.18	74	14.82	164	280	H
* 8.246	32.93	PKFH	37.1	-26.1	16.2	60.13	74	13.87	127	188	H
* 9.16	32.09	PKFH	37.6	-25.9	17	60.79	74	13.21	267	359	H
* 2.748	35.71	PKFH	29.4	-27	9	47.11	74	26.89	190	262	V
* 3.664	30.78	PKFH	31.8	-26.9	10.4	46.08	74	27.92	79	109	V
* 4.579	32.62	PKFH	32.2	-26.7	11.8	49.92	74	24.08	1	298	V
* 7.328	32.83	PKFH	36.7	-26.2	15.1	58.43	74	15.57	291	119	V
* 8.244	32.38	PKFH	37.1	-26.1	16.2	59.58	74	14.42	210	106	V
* 9.162	32.34	PKFH	37.6	-25.9	17	61.04	74	12.96	32	380	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
1.832	43.73	PKFH	27.3	-26.9	7.3	51.43	94.8	43.37	154	104	H
5.497	31.04	PKFH	34.4	-26.6	13	51.84	94.8	42.96	2	150	H
6.411	33.13	PKFH	34.8	-26.3	14.1	55.73	94.8	39.07	358	120	H
1.832	38.83	PKFH	27.3	-26.9	7.3	46.53	94.8	48.27	28	249	V
5.496	32.4	PKFH	34.4	-26.6	13	53.2	94.8	41.6	50	345	V
6.413	34.08	PKFH	34.8	-26.3	14.1	56.68	94.8	38.12	15	274	V

AVERAGE DATA-RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.748	31.19	VA1T	29.4	-27	9	-	42.59	54	11.41	88	105	H
* 3.664	18.22	VA1T	31.8	-26.9	10.4	-	33.52	54	20.48	5	389	H
* 4.582	19.33	VA1T	32.2	-26.7	11.8	-	36.63	54	17.37	47	368	H
* 7.329	19.93	VA1T	36.7	-26.2	15.1	-	45.53	54	8.47	164	280	H
* 8.245	18.79	VA1T	37.1	-26.1	16.2	-	45.99	54	8.01	127	188	H
* 9.162	19.19	VA1T	37.6	-25.9	17	-	47.89	54	6.11	267	359	H
* 2.748	27.03	VA1T	29.4	-27	9	-	38.43	54	15.57	190	262	V
* 3.664	18.19	VA1T	31.8	-26.9	10.4	-	33.49	54	20.51	79	109	V
* 4.58	19.38	VA1T	32.2	-26.7	11.8	-	36.68	54	17.32	1	298	V
* 7.328	20.12	VA1T	36.7	-26.2	15.1	-	45.72	54	8.28	291	119	V
* 8.245	19.05	VA1T	37.1	-26.1	16.2	-	46.25	54	7.75	210	106	V
* 9.162	19.2	VA1T	37.6	-25.9	17	-	47.9	54	6.1	32	380	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor =20*log (Dwell time /100msec), Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor =20 log (1.554*8/100) = -18.10dB

TEST RESULT – 1 GHz to 10 GHz – CHANNEL 55

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
* 2.779	37.26	PKFH	29.5	-27.1	9.1	48.76	74	25.24	90	116	H
* 3.708	31.17	PKFH	32	-26.9	10.6	46.87	74	27.13	311	114	H
* 4.632	33.12	PKFH	32.3	-26.6	11.8	50.62	74	23.38	50	199	H
* 7.411	32.11	PKFH	36.8	-26.2	15.2	57.91	74	16.09	301	397	H
* 8.338	32.18	PKFH	37.3	-26.1	16.2	59.58	74	14.42	345	266	H
* 2.779	33.48	PKFH	29.5	-27.1	9.1	44.98	74	29.02	121	329	V
* 3.707	31.18	PKFH	32	-26.9	10.6	46.88	74	27.12	335	202	V
* 4.634	32.97	PKFH	32.4	-26.6	11.8	50.57	74	23.43	202	340	V
* 7.412	32.94	PKFH	36.8	-26.2	15.2	58.74	74	15.26	189	268	V
* 8.339	31.95	PKFH	37.3	-26.1	16.2	59.35	74	14.65	161	321	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	43	PKFH	27.5	-26.9	7.4	51	94.1	43.1	150	101	H
5.558	31.74	PKFH	34.4	-26.4	13.1	52.84	94.1	41.26	19	368	H
6.484	33.58	PKFH	34.8	-26.4	14.2	56.18	94.1	37.92	285	264	H
9.266	32.5	PKFH	37.8	-26	17.1	61.4	94.1	32.7	256	351	H
1.853	38.77	PKFH	27.5	-26.9	7.4	46.77	94.1	47.33	54	341	V
5.559	31.14	PKFH	34.4	-26.4	13.1	52.24	94.1	41.86	286	331	V
6.484	32.75	PKFH	34.8	-26.4	14.2	55.35	94.1	38.75	319	120	V
9.266	31.97	PKFH	37.8	-26	17.1	60.87	94.1	33.23	32	215	V

AVERAGE DATA-RESTRICTED BAND

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Preamp [dB]	SMA1 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.779	31.39	VA1T	29.5	-27.1	9.1	-	42.89	54	11.11	90	116	H
* 3.708	18.37	VA1T	32	-26.9	10.6	-	34.07	54	19.93	311	114	H
* 4.634	19.73	VA1T	32.4	-26.6	11.8	-	37.33	54	16.67	50	199	H
* 7.412	19.28	VA1T	36.8	-26.2	15.2	-	45.08	54	8.92	301	397	H
* 8.339	19.36	VA1T	37.3	-26.1	16.2	-	46.76	54	7.24	345	266	H
* 2.779	23.77	VA1T	29.5	-27.1	9.1	-	35.27	54	18.73	121	329	V
* 3.706	18.37	VA1T	32	-26.9	10.6	-	34.07	54	19.93	335	202	V
* 4.632	19.79	VA1T	32.3	-26.6	11.8	-	37.29	54	16.71	202	340	V
* 7.411	19.39	VA1T	36.8	-26.2	15.2	-	45.19	54	8.81	189	268	V

Note:

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PKFH - FHSS: RB=1MHz VB=3 x RB, Peak
 VA1T - FHSS: Linear Voltage Average RB=1MHz VB=10Hz

Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \times \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.554 msec
 Duty Cycle correction Factor = $20 \log(1.554 \times 8 / 100) = -18.10\text{dB}$

2.9 Effective Isotropic Radiated Power

EUT Nomenclature	Wireless Monitor 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 C63.10 - 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	903.55	H	107.1	15.8	16.6
1	903.55	V	98.5	7.8	8.6
1	916	H	104.89	14.1	14.9
1	916	V	96.96	6.6	7.4
1	926.45	H	104.26	14.8	15.6
1	926.45	V	96.58	7.8	8.6
2	903.55	H	106.88	15.5	16.3
2	903.55	V	98.1	7.35	8.15
2	916	H	108.69	17.9	18.7
2	916	V	97.47	7.15	7.95
2	926.45	H	107.3	17.9	18.7
2	926.45	V	93.39	4.6	5.4
3	903.55	H	107.85	16.5	17.3
3	903.55	V	99.11	8.4	9.2
3	916	H	109.39	18.7	19.5
3	916	V	99.56	9.25	10.05
3	926.45	H	108.62	19.3	20.1
3	926.45	V	93.22	4.5	5.3

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

3 DTS CHANNELS

3.1 DTS 6dB BANDWIDTH

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)	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 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

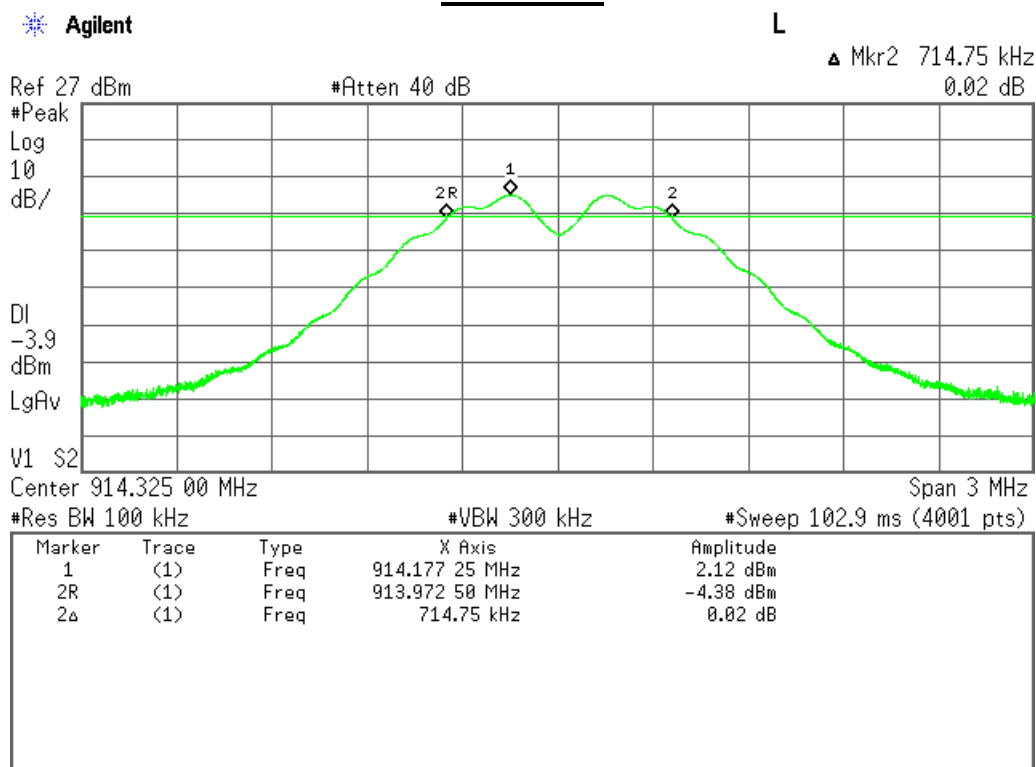
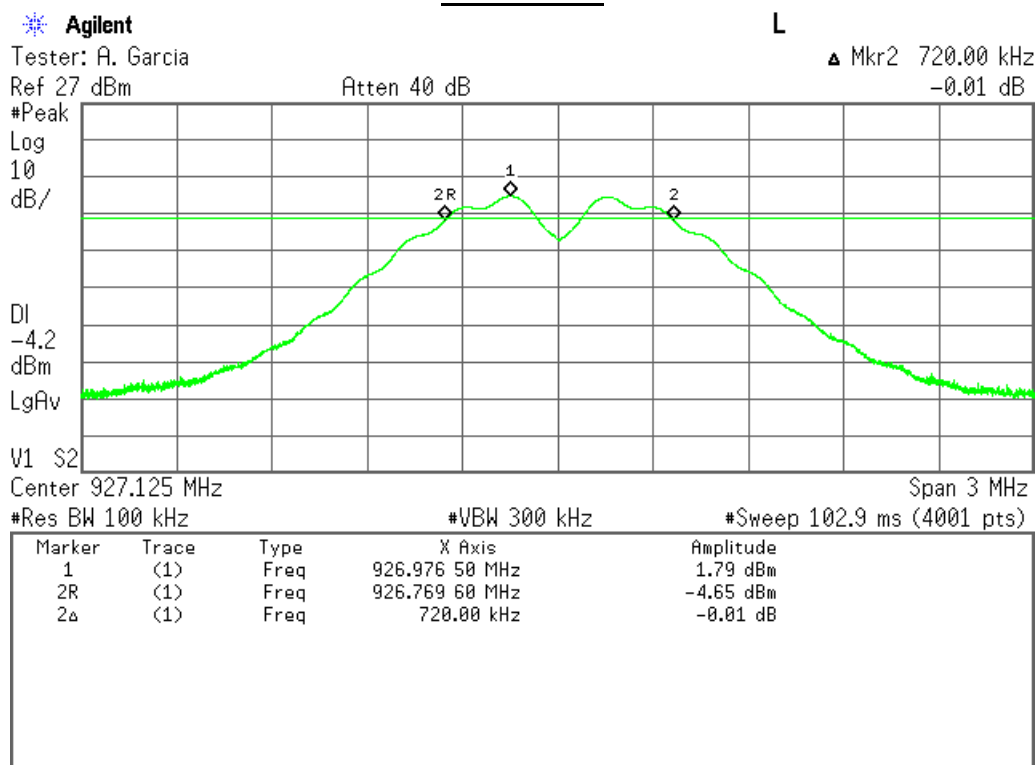
Method	Radiated ☐	Conducted ☒
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TEST PARAMETERS

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

Channel 3**Channel 6**

TEST RESULT				
Channel	Frequency	Measured Value	Limit	Result
#	MHz	KHz	KHz	
3	914.325	714.75	>500	Pass
6	927.125	720	>500	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test Setup

3.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

EUT Nomenclature	Wireless Monitor Module	Test Request No.	20293-1
Model No.	FW-MM	Serial No.	MEL-156
Test Start Date	2016-08-04	Temperature (°C)	23.6°C
Test End Date	2016-08-05	Humidity RH (%)	51.9%RH
Tested By	Arnoldo Garcia	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 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

Method	Radiated ☐	Conducted ☒
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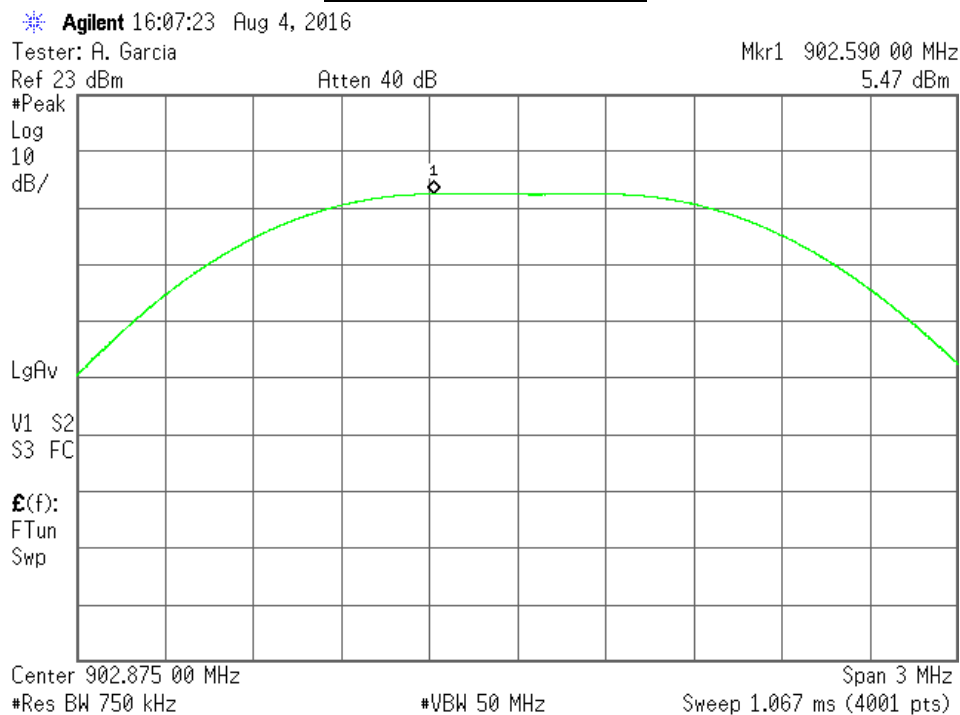
TEST PARAMETERS

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

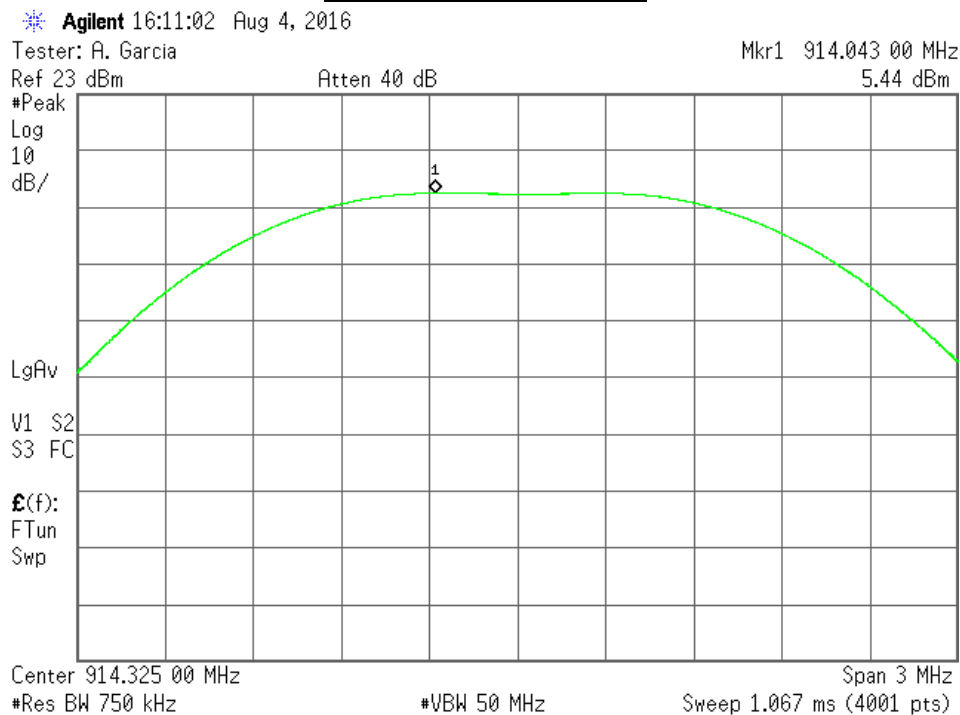
TEST EQUIPMENT

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

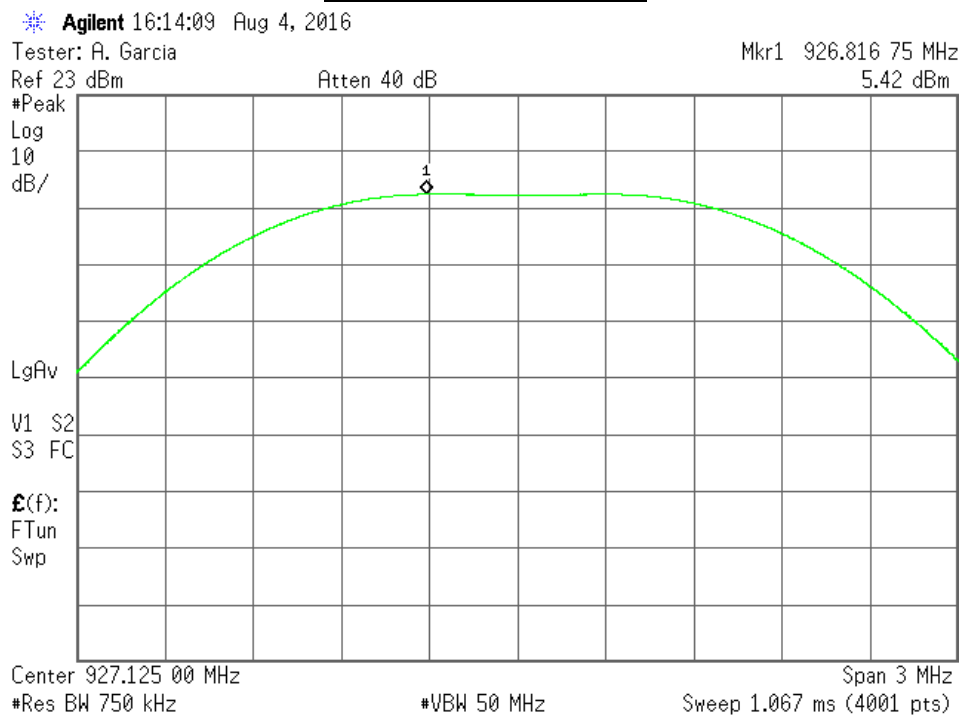
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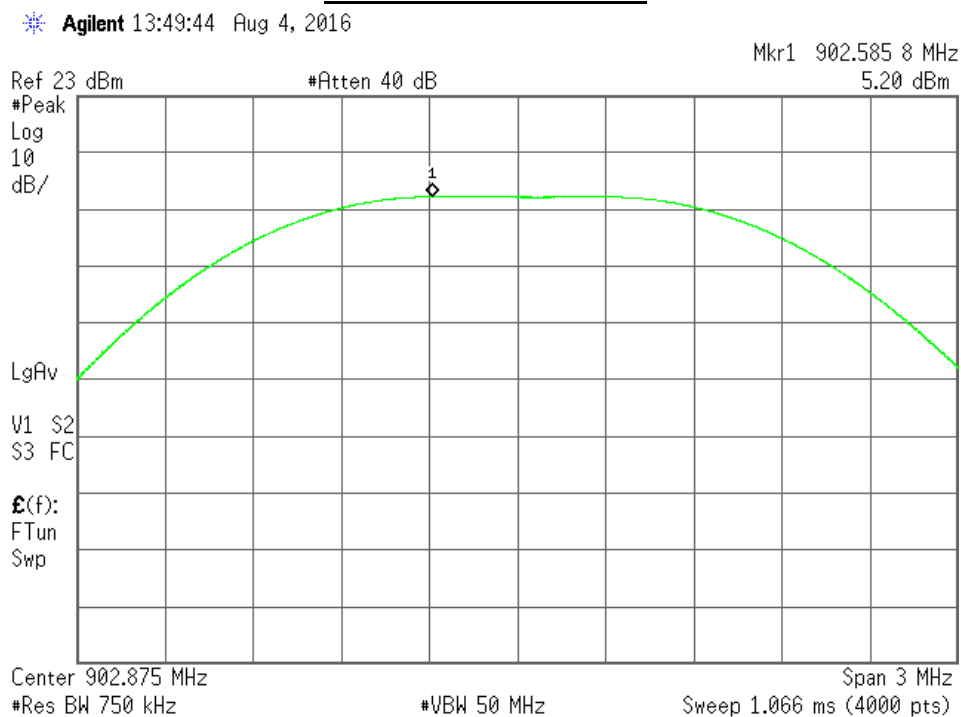
Antenna 1 Channel 3



Antenna 1 Channel 6

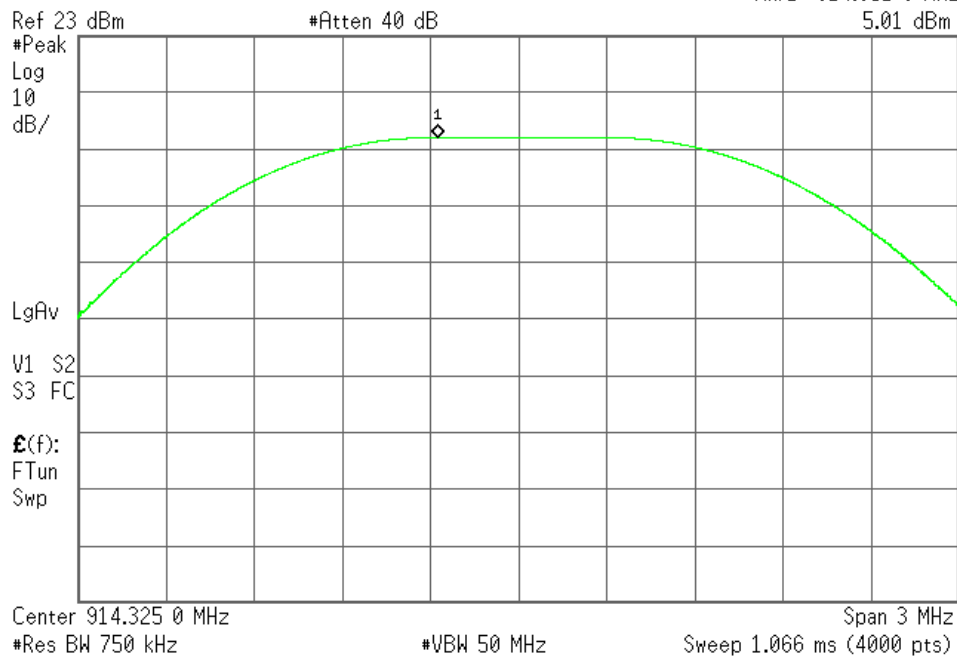


Antenna 2 Channel 1



Antenna 2 Channel 3

* Agilent 14:46:29 Aug 4, 2016

Mkr1 914.051 6 MHz
5.01 dBm

Antenna 2 Channel 6

* Agilent 14:56:34 Aug 4, 2016

Mkr1 926.830 6 MHz
4.76 dBm