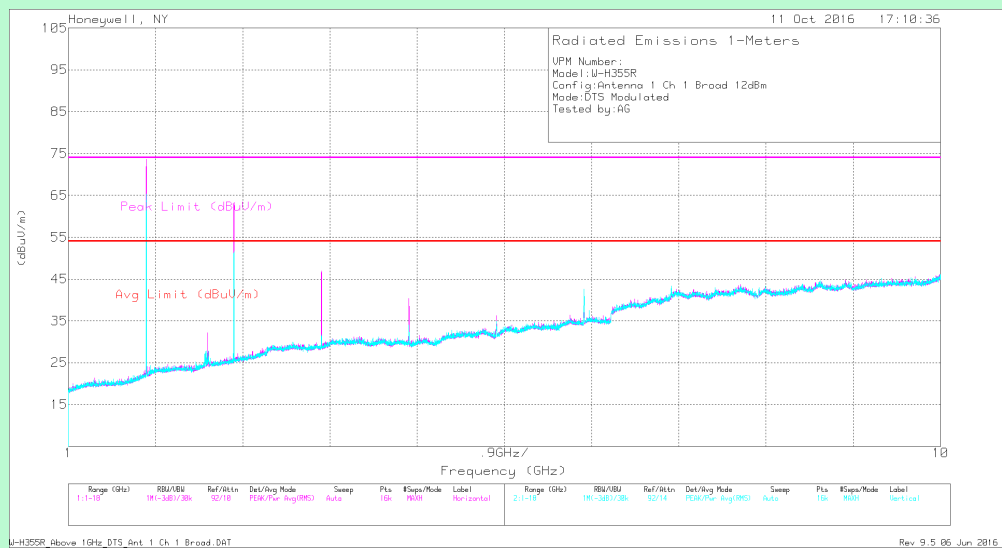
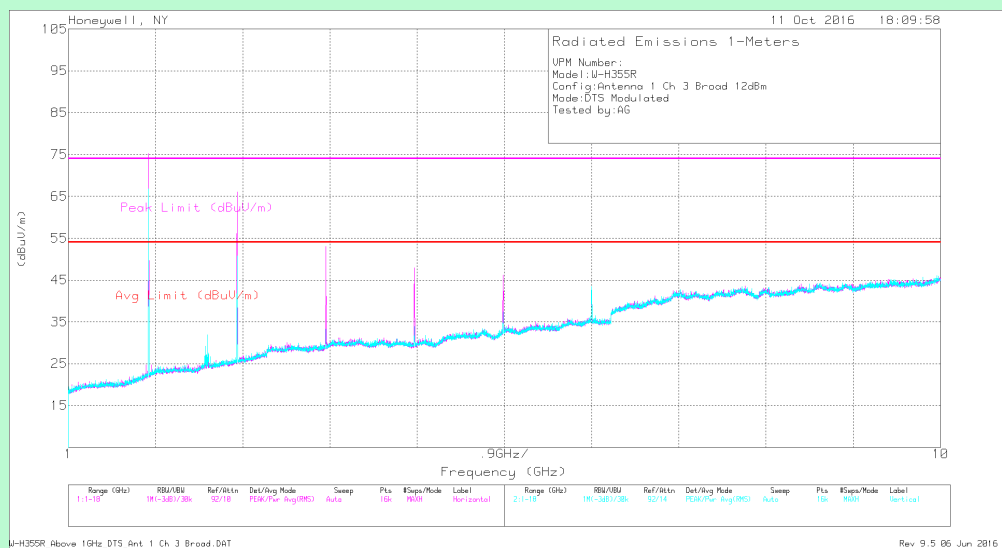


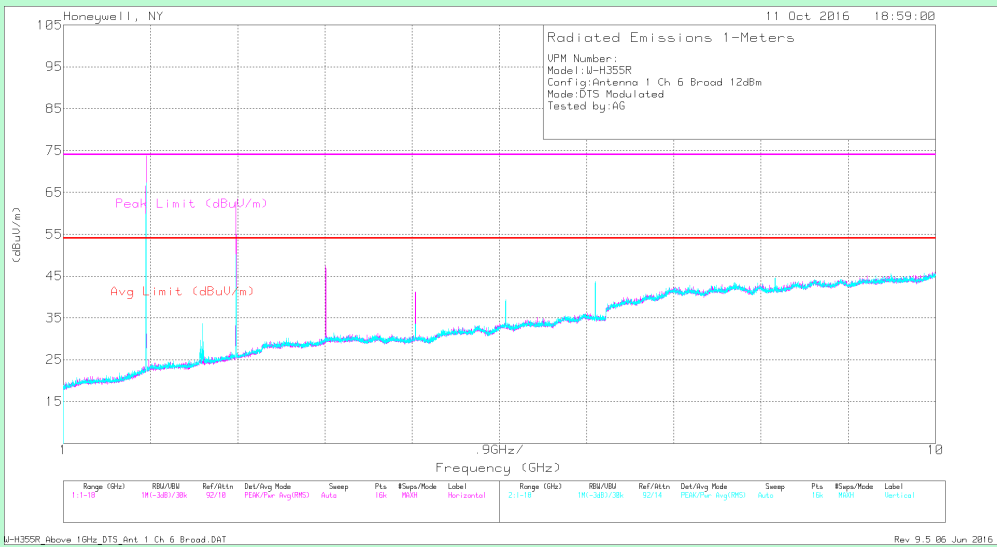
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 1)



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	40.15	PK2	29.3	-27.1	9	51.35	74	22.65	196	330	H
* 3.611	32.72	PK2	31.6	-26.8	10.4	47.92	74	26.08	54	329	H
* 4.516	33.09	PK2	32.2	-26.6	11.7	50.39	74	23.61	26	396	H
* 5.418	30.59	PK2	34.3	-26.7	12.9	51.09	74	22.91	2	185	H
* 8.126	30.83	PK2	37.1	-26.2	16	57.73	74	16.27	134	293	H
* 9.028	30.67	PK2	37.6	-25.9	16.9	59.27	74	14.73	52	232	H
* 2.708	44.94	PK2	29.3	-27.1	9	56.14	74	17.86	354	165	V
* 3.611	34.28	PK2	31.6	-26.8	10.4	49.48	74	24.52	303	367	V
* 4.513	33.18	PK2	32.2	-26.6	11.7	50.48	74	23.52	167	238	V
* 5.416	32.37	PK2	34.3	-26.7	12.9	52.87	74	21.13	328	291	V
* 8.125	31.59	PK2	37.1	-26.2	16	58.49	74	15.51	308	221	V
* 9.028	33.1	PK2	37.6	-25.9	16.9	61.7	74	12.3	95	371	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	52.3	PK2	27	-26.9	7.3	59.7	82	22.3	184	156	H
6.319	31.04	PK2	34.9	-26.4	14	53.54	82	28.46	310	241	H
7.223	32.91	PK2	36.3	-26.2	15	58.01	82	23.99	353	233	H
1.805	55.8	PK2	27	-26.9	7.3	63.2	82	18.8	316	125	V
6.319	32.78	PK2	34.9	-26.4	14	55.28	82	26.72	284	270	V
7.223	32.74	PK2	36.3	-26.2	15	57.84	82	24.16	92	243	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	32.8	MAv1	29.3	-27.1	9	44	54	10	196	330	H
* 3.612	23.31	MAv1	31.6	-26.8	10.4	38.51	54	15.49	54	329	H
* 4.516	23.69	MAv1	32.2	-26.6	11.7	40.99	54	13.01	26	396	H
* 5.418	19.65	MAv1	34.3	-26.7	12.9	40.15	54	13.85	2	185	H
* 8.127	21.37	MAv1	37.1	-26.2	16	48.27	54	5.73	134	293	H
* 9.028	22	MAv1	37.6	-25.9	16.9	50.6	54	3.4	52	232	H
* 2.709	39.27	MAv1	29.3	-27.1	9	50.47	54	3.53	354	165	V
* 3.611	24.75	MAv1	31.6	-26.8	10.4	39.95	54	14.05	303	367	V
* 4.515	23.95	MAv1	32.2	-26.6	11.7	41.25	54	12.75	167	238	V
* 5.416	22.38	MAv1	34.3	-26.7	12.9	42.88	54	11.12	328	291	V
* 8.125	21.58	MAv1	37.1	-26.2	16	48.48	54	5.52	308	221	V
* 9.03	21.77	MAv1	37.6	-25.9	16.9	50.37	54	3.63	95	371	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	34.51	PK2	29.4	-27	9	45.91	74	28.09	173	395	H
* 3.659	28.85	PK2	31.8	-26.9	10.4	44.15	74	29.85	213	383	H
* 4.573	31.84	PK2	32.2	-26.7	11.8	49.14	74	24.86	6	361	H
* 7.315	30.89	PK2	36.7	-26.2	15.1	56.49	74	17.51	290	376	H
* 8.229	30.43	PK2	37.1	-26.1	16.1	57.53	74	16.47	59	355	H
* 8.227	31.08	PK2	37.1	-26.1	16.1	58.18	74	15.82	59	355	H
* 9.144	29.82	PK2	37.6	-25.9	16.9	58.42	74	15.58	353	351	H
* 2.742	40.07	PK2	29.4	-27	9	51.47	74	22.53	261	319	V
* 3.656	30.03	PK2	31.8	-26.9	10.4	45.33	74	28.67	334	328	V
* 4.57	32.52	PK2	32.2	-26.7	11.8	49.82	74	24.18	334	328	V
* 4.573	31.31	PK2	32.2	-26.7	11.8	48.61	74	25.39	334	328	V
* 7.314	31.41	PK2	36.7	-26.2	15.1	57.01	74	16.99	132	272	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	47.53	PK2	27.3	-26.9	7.3	55.23	82.8	27.57	189	288	H
5.486	29.93	PK2	34.4	-26.6	13	50.73	82.8	32.07	306	392	H
6.402	31.57	PK2	34.8	-26.2	14.1	54.27	82.8	28.53	359	257	H
1.828	39.11	PK2	27.2	-26.9	7.3	46.71	82.8	36.09	143	292	V
5.488	29.89	PK2	34.4	-26.6	13	50.69	82.8	32.11	284	276	V
6.399	33.81	PK2	34.8	-26.2	14.1	56.51	82.8	26.29	275	294	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
* 2.742	26.82	MAv1	29.4	-27	9	38.22	54	15.78	173	395	H
* 3.656	19.38	MAv1	31.8	-26.9	10.4	34.68	54	19.32	213	383	H
* 4.57	22.57	MAv1	32.2	-26.7	11.8	39.87	54	14.13	6	361	H
* 7.317	21.45	MAv1	36.7	-26.2	15.1	47.05	54	6.95	290	376	H
* 8.228	20.46	MAv1	37.1	-26.1	16.1	47.56	54	6.44	59	355	H
* 8.23	19.88	MAv1	37.1	-26.1	16.1	46.98	54	7.02	59	355	H
* 9.141	20.95	MAv1	37.6	-25.9	16.9	49.55	54	4.45	353	351	H
* 2.744	31.63	MAv1	29.4	-27	9	43.03	54	10.97	261	319	V
* 3.655	20.15	MAv1	31.8	-26.9	10.4	35.45	54	18.55	334	328	V
* 4.572	21.53	MAv1	32.2	-26.7	11.8	38.83	54	15.17	334	328	V
* 4.573	21.93	MAv1	32.2	-26.7	11.8	39.23	54	14.77	334	328	V
* 7.314	22.05	MAv1	36.7	-26.2	15.1	47.65	54	6.35	132	272	V
* 8.227	20.63	MAv1	37.1	-26.1	16.1	47.73	54	6.27	139	194	V
* 9.144	20.86	MAv1	37.6	-25.9	16.9	49.46	54	4.54	140	236	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	35.72	PK2	29.5	-27.1	9.1	47.22	74	26.78	158	270	H
* 3.71	29.59	PK2	32	-26.9	10.6	45.29	74	28.71	43	270	H
* 4.637	31.12	PK2	32.4	-26.6	11.8	48.72	74	25.28	26	261	H
* 7.419	29.91	PK2	36.8	-26.2	15.2	55.71	74	18.29	123	274	H
* 8.344	29.91	PK2	37.3	-26.1	16.2	57.31	74	16.69	175	361	H
* 2.782	38.74	PK2	29.5	-27.1	9.1	50.24	74	23.76	331	161	V
* 3.707	29.26	PK2	32	-26.9	10.6	44.96	74	29.04	30	351	V
* 4.634	32.09	PK2	32.4	-26.6	11.8	49.69	74	24.31	358	358	V
* 7.415	31.08	PK2	36.8	-26.2	15.2	56.88	74	17.12	281	254	V
* 8.343	30.04	PK2	37.3	-26.1	16.2	57.44	74	16.56	139	181	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	44.16	PK2	27.5	-26.9	7.4	52.16	84.6	32.44	225	201	H
5.561	29.75	PK2	34.4	-26.4	13.1	50.85	84.6	33.75	268	328	H
6.488	31.84	PK2	34.8	-26.4	14.2	54.44	84.6	30.16	288	386	H
9.271	29.91	PK2	37.8	-26	17.1	58.81	84.6	25.79	353	374	H
1.852	52.68	PK2	27.5	-26.9	7.4	60.68	84.6	23.92	133	165	V
5.561	32.53	PK2	34.4	-26.4	13.1	53.63	84.6	30.97	335	278	V
6.488	34.15	PK2	34.8	-26.4	14.2	56.75	84.6	27.85	273	272	V
9.272	29.46	PK2	37.8	-26	17.1	58.36	84.6	26.24	195	157	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	27.21	MAv1	29.5	-27.1	9.1	38.71	54	15.29	158	270	H
* 3.709	20.32	MAv1	32	-26.9	10.6	36.02	54	17.98	43	270	H
* 4.637	22.57	MAv1	32.4	-26.6	11.8	40.17	54	13.83	26	261	H
* 7.417	20.71	MAv1	36.8	-26.2	15.2	46.51	54	7.49	123	274	H
* 8.345	21.56	MAv1	37.3	-26.1	16.2	48.96	54	5.04	175	361	H
* 2.781	30.17	MAv1	29.5	-27.1	9.1	41.67	54	12.33	331	161	V
* 3.708	20.38	MAv1	32	-26.9	10.6	36.08	54	17.92	30	351	V
* 4.637	22.53	MAv1	32.4	-26.6	11.8	40.13	54	13.87	358	358	V
* 7.415	21.16	MAv1	36.8	-26.2	15.2	46.96	54	7.04	281	254	V
* 8.345	20.73	MAv1	37.3	-26.1	16.2	48.13	54	5.87	139	181	V

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

** - indicates intended frequency

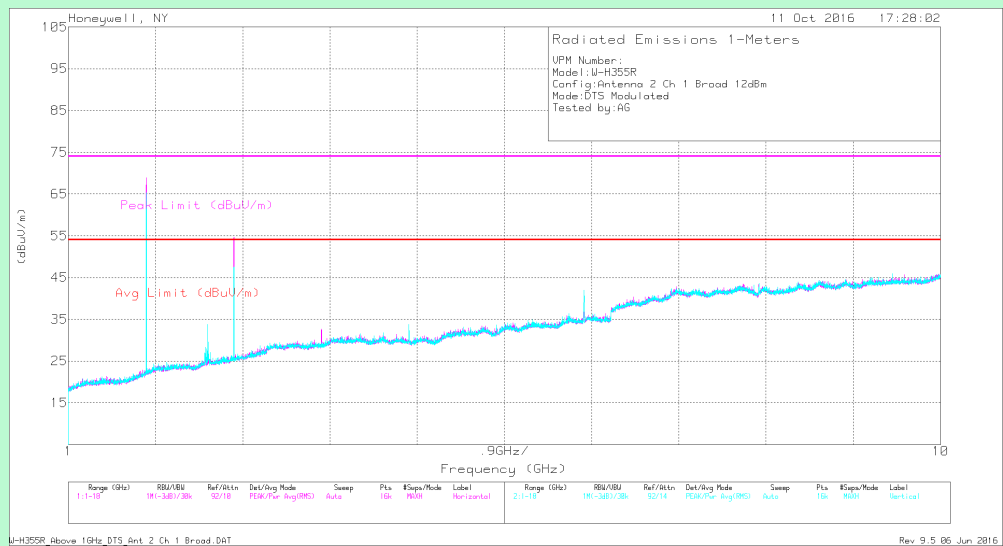
Pk - Peak detector

Qp - Quasi-Peak detector

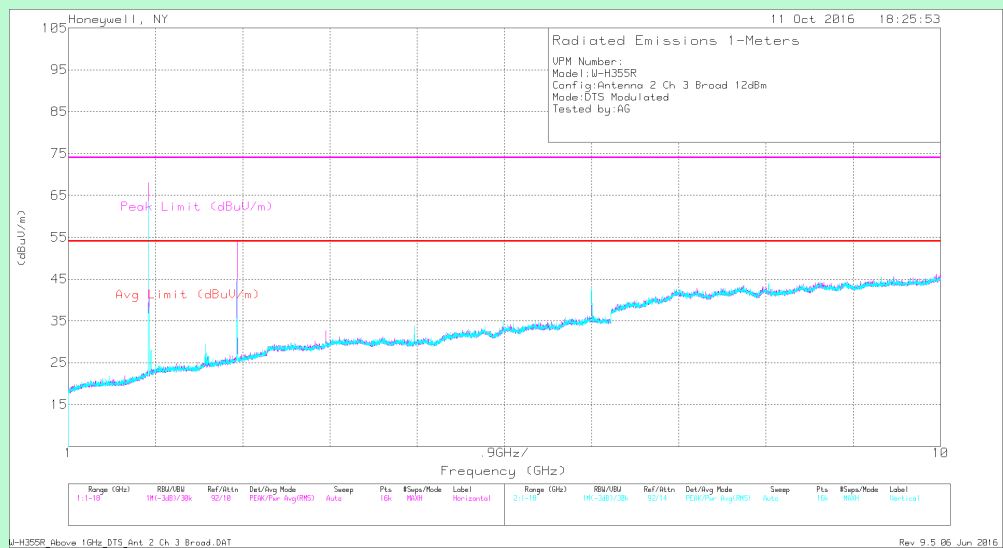
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

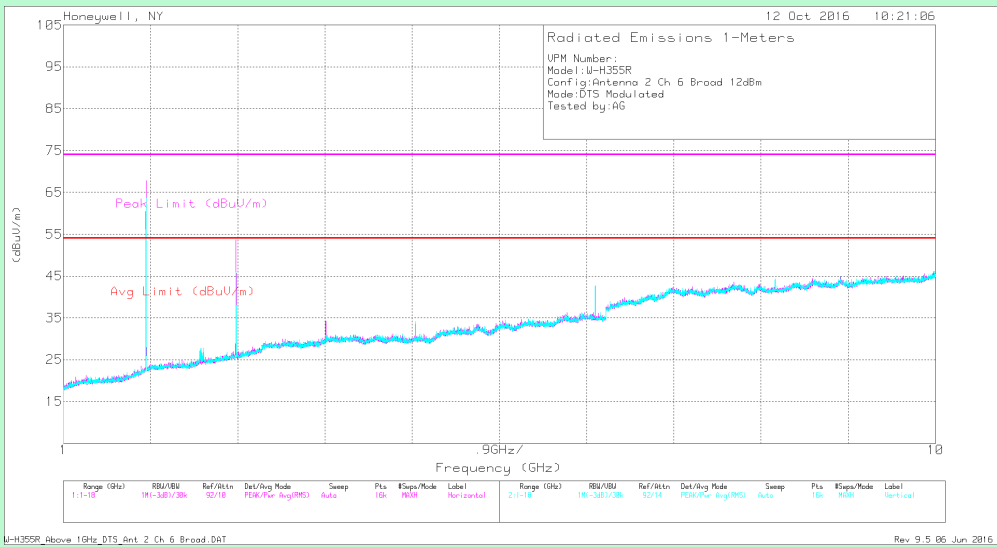
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 2)



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	28.02	MAv1	29.3	-27.1	9	39.22	54	14.78	334	157	H
* 3.611	19.53	MAv1	31.6	-26.8	10.4	34.73	54	19.27	140	179	H
* 4.513	22.36	MAv1	32.2	-26.6	11.7	39.66	54	14.34	62	312	H
* 5.419	19.6	MAv1	34.3	-26.7	12.9	40.1	54	13.9	155	348	H
* 5.417	19.21	MAv1	34.3	-26.7	12.9	39.71	54	14.29	155	348	H
* 8.127	20.84	MAv1	37.1	-26.2	16	47.74	54	6.26	337	376	H
* 9.027	20.99	MAv1	37.6	-25.9	16.9	49.59	54	4.41	173	211	H
* 2.709	32.94	MAv1	29.3	-27.1	9	44.14	54	9.86	296	394	V
* 3.611	19.43	MAv1	31.6	-26.8	10.4	34.63	54	19.37	57	273	V
* 4.516	23.23	MAv1	32.2	-26.6	11.7	40.53	54	13.47	326	322	V
* 5.417	19.29	MAv1	34.3	-26.7	12.9	39.79	54	14.21	56	118	V
* 8.125	21.09	MAv1	37.1	-26.2	16	47.99	54	6.01	121	353	V
* 9.027	20.8	MAv1	37.6	-25.9	16.9	49.4	54	4.6	215	116	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	54.06	PK2	27	-26.9	7.3	61.46	87.9	26.44	346	163	H
6.319	31.04	PK2	34.9	-26.4	14	53.54	87.9	34.36	338	371	H
7.221	30.99	PK2	36.3	-26.2	15	56.09	87.9	31.81	162	365	H
1.805	33.29	PK2	27	-26.9	7.3	40.69	87.9	47.21	161	211	V
6.318	32.12	PK2	34.9	-26.4	14	54.62	87.9	33.28	258	282	V
7.224	31.34	PK2	36.3	-26.2	15	56.44	87.9	31.46	74	397	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	37.1	PK2	29.3	-27.1	9	48.3	74	25.7	334	157	H
* 3.612	28.5	PK2	31.6	-26.8	10.4	43.7	74	30.3	140	179	H
* 4.513	31.01	PK2	32.2	-26.6	11.7	48.31	74	25.69	62	312	H
* 5.418	29.25	PK2	34.3	-26.7	12.9	49.75	74	24.25	155	348	H
* 5.415	28.29	PK2	34.3	-26.7	12.9	48.79	74	25.21	155	348	H
* 8.124	29.95	PK2	37.1	-26.2	16	56.85	74	17.15	337	376	H
* 9.03	30.89	PK2	37.6	-25.9	16.9	59.49	74	14.51	173	211	H
* 2.709	41.3	PK2	29.3	-27.1	9	52.5	74	21.5	296	394	V
* 3.61	28.85	PK2	31.6	-26.8	10.4	44.05	74	29.95	57	273	V
* 4.514	32.04	PK2	32.2	-26.6	11.7	49.34	74	24.66	326	322	V
* 5.416	28.34	PK2	34.3	-26.7	12.9	48.84	74	25.16	56	118	V
* 8.127	30.53	PK2	37.1	-26.2	16	57.43	74	16.57	121	353	V
* 9.03	29.65	PK2	37.6	-25.9	16.9	58.25	74	15.75	215	116	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	38.6	PK2	29.4	-27	9	50	74	24	38	367	H
* 3.658	30.05	PK2	31.8	-26.9	10.4	45.35	74	28.65	273	114	H
* 4.572	31.11	PK2	32.2	-26.7	11.8	48.41	74	25.59	191	369	H
* 7.314	31.3	PK2	36.7	-26.2	15.1	56.9	74	17.1	10	385	H
* 8.23	30.98	PK2	37.1	-26.1	16.1	58.08	74	15.92	353	352	H
* 9.144	30.96	PK2	37.6	-25.9	16.9	59.56	74	14.44	216	131	H
* 2.742	42.77	PK2	29.4	-27	9	54.17	74	19.83	285	351	V
* 3.656	30.79	PK2	31.8	-26.9	10.4	46.09	74	27.91	62	229	V
* 4.57	32.86	PK2	32.2	-26.7	11.8	50.16	74	23.84	130	342	V
* 7.314	32.81	PK2	36.7	-26.2	15.1	58.41	74	15.59	130	350	V
* 8.229	30.96	PK2	37.1	-26.1	16.1	58.06	74	15.94	76	352	V
* 9.143	30.97	PK2	37.6	-25.9	16.9	59.57	74	14.43	317	231	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	53.18	PK2	27.2	-26.9	7.3	60.78	86.1	25.32	337	105	H
5.485	28.91	PK2	34.4	-26.6	13	49.71	86.1	36.39	141	295	H
6.399	32.4	PK2	34.8	-26.2	14.1	55.1	86.1	31	348	285	H
1.829	46.68	PK2	27.3	-26.9	7.3	54.38	86.1	31.72	42	358	V
5.484	32.06	PK2	34.4	-26.6	13	52.86	86.1	33.24	337	316	V
6.399	33.58	PK2	34.8	-26.2	14.1	56.28	86.1	29.82	288	295	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	31.28	MAv1	29.4	-27	9	42.68	54	11.32	38	367	H
* 3.659	19.29	MAv1	31.8	-26.9	10.4	34.59	54	19.41	273	114	H
* 4.57	21.13	MAv1	32.2	-26.7	11.8	38.43	54	15.57	191	369	H
* 7.314	21.27	MAv1	36.7	-26.2	15.1	46.87	54	7.13	10	385	H
* 8.23	20.66	MAv1	37.1	-26.1	16.1	47.76	54	6.24	353	352	H
* 9.143	20.36	MAv1	37.6	-25.9	16.9	48.96	54	5.04	216	131	H
* 2.744	36.64	MAv1	29.4	-27	9	48.04	54	5.96	285	351	V
* 3.656	20.54	MAv1	31.8	-26.9	10.4	35.84	54	18.16	62	229	V
* 4.572	22.84	MAv1	32.2	-26.7	11.8	40.14	54	13.86	130	342	V
* 7.315	23.03	MAv1	36.7	-26.2	15.1	48.63	54	5.37	130	350	V
* 8.229	21.34	MAv1	37.1	-26.1	16.1	48.44	54	5.56	76	352	V
* 9.144	20.94	MAv1	37.6	-25.9	16.9	49.54	54	4.46	317	231	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	35.45	PK2	29.5	-27.1	9.1	46.95	74	27.05	143	134	H
* 3.708	31.19	PK2	32	-26.9	10.6	46.89	74	27.11	139	400	H
* 4.634	34.64	PK2	32.4	-26.6	11.8	52.24	74	21.76	16	322	H
* 7.417	32.44	PK2	36.8	-26.2	15.2	58.24	74	15.76	174	318	H
* 8.345	32.42	PK2	37.3	-26.1	16.2	59.82	74	14.18	1	385	H
* 2.781	41.64	PK2	29.5	-27.1	9.1	53.14	74	20.86	267	347	V
* 3.709	30.88	PK2	32	-26.9	10.6	46.58	74	27.42	33	343	V
* 4.637	33.79	PK2	32.4	-26.6	11.8	51.39	74	22.61	134	346	V
* 7.418	32.13	PK2	36.8	-26.2	15.2	57.93	74	16.07	156	319	V
* 8.344	31.91	PK2	37.3	-26.1	16.2	59.31	74	14.69	99	386	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	29.75	PK2	27.5	-26.4	3.4	51.15	86.1	-34.95	0	152	H
** 1.854	35.92	PK2	27.5	-26.4	3.4	57.32	86.1	-28.78	271	152	V
5.563	30.98	PK2	34.4	-26.4	13.1	52.08	86.1	34.02	315	187	H
6.489	34.24	PK2	34.8	-26.4	14.2	56.84	86.1	29.26	346	281	H
9.271	30.62	PK2	37.8	-26	17.1	59.52	86.1	26.58	108	384	H
5.563	30.2	PK2	34.4	-26.4	13.1	51.3	86.1	34.8	235	184	V
6.49	34.05	PK2	34.8	-26.4	14.2	56.65	86.1	29.45	235	182	V
9.271	30.33	PK2	37.8	-26	17.1	59.23	86.1	26.87	229	151	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
* 2.782	26.5	MAv1	29.5	-27.1	9.1	38	54	16	143	134	H
* 3.709	20.43	MAv1	32	-26.9	10.6	36.13	54	17.87	139	400	H
* 4.634	23.84	MAv1	32.4	-26.6	11.8	41.44	54	12.56	16	322	H
* 7.418	21.91	MAv1	36.8	-26.2	15.2	47.71	54	6.29	174	318	H
* 8.343	21.91	MAv1	37.3	-26.1	16.2	49.31	54	4.69	1	385	H
* 2.781	35.74	MAv1	29.5	-27.1	9.1	47.24	54	6.76	267	347	V
* 3.71	20.6	MAv1	32	-26.9	10.6	36.3	54	17.7	33	343	V
* 4.637	23.31	MAv1	32.4	-26.6	11.8	40.91	54	13.09	134	346	V
* 7.418	22.2	MAv1	36.8	-26.2	15.2	48	54	6	156	319	V
* 8.344	21.45	MAv1	37.3	-26.1	16.2	48.85	54	5.15	99	386	V

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

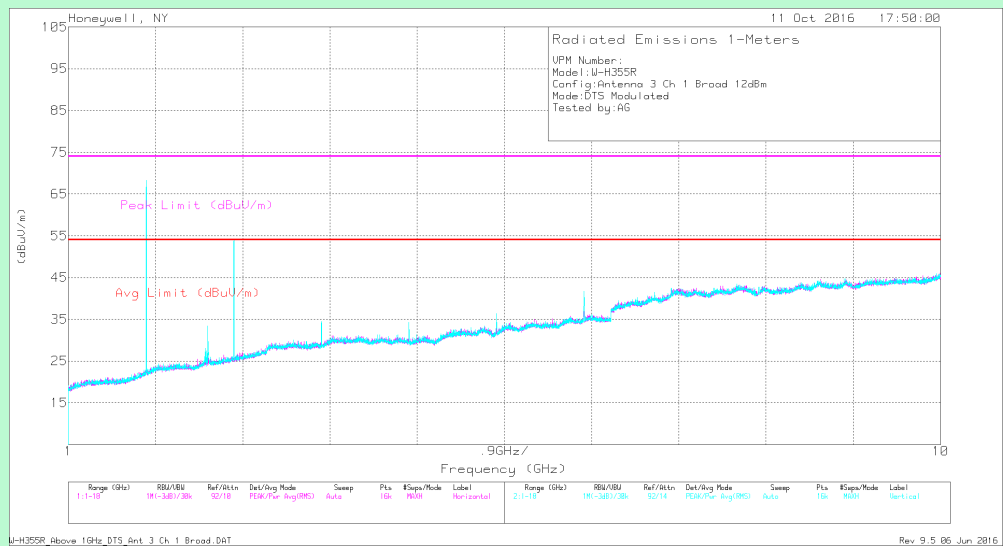
Pk - Peak detector

Qp - Quasi-Peak detector

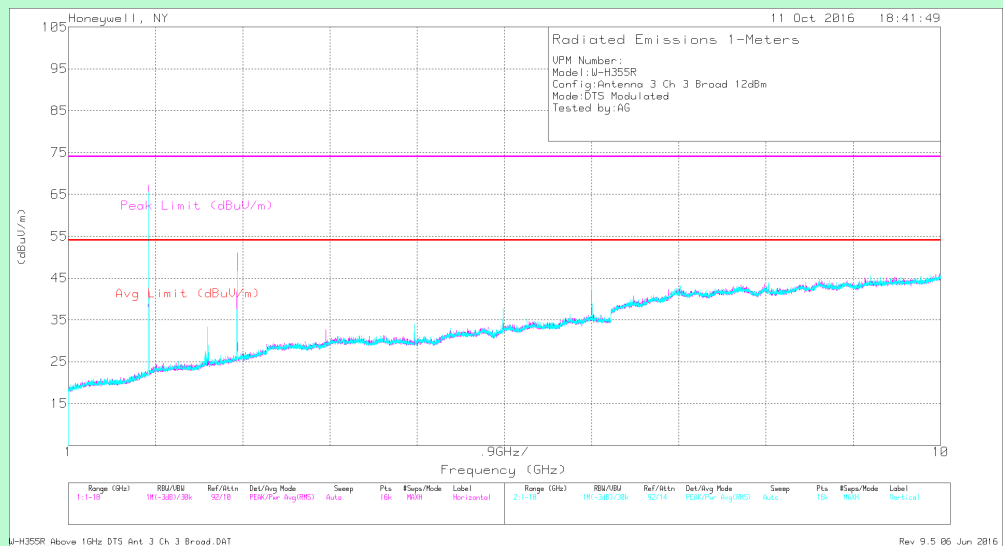
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

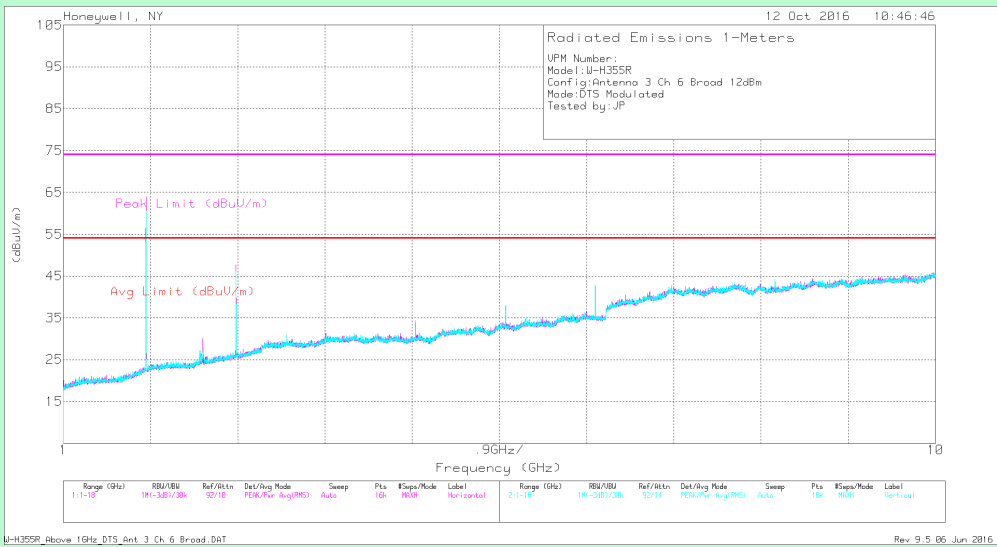
TEST GRAPHS – 1GHz to 10GHz (ANTENNA 3)



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	43.11	PK2	29.3	-27.1	9	54.31	74	19.69	290	178	H
* 3.611	35.08	PK2	31.6	-26.8	10.4	50.28	74	23.72	279	108	H
* 4.514	33.82	PK2	32.2	-26.6	11.7	51.12	74	22.88	229	291	H
* 5.416	30.27	PK2	34.3	-26.7	12.9	50.77	74	23.23	282	120	H
* 8.124	31.08	PK2	37.1	-26.2	16	57.98	74	16.02	30	262	H
* 9.027	31.72	PK2	37.6	-25.9	16.9	60.32	74	13.68	288	378	H
* 2.71	45.52	PK2	29.3	-27.1	9	56.72	74	17.28	315	103	V
* 3.613	34.61	PK2	31.6	-26.8	10.4	49.81	74	24.19	184	130	V
* 4.515	34.31	PK2	32.2	-26.6	11.7	51.61	74	22.39	307	144	V
* 5.418	29.49	PK2	34.3	-26.7	12.9	49.99	74	24.01	210	313	V
* 8.125	31.25	PK2	37.1	-26.2	16	58.15	74	15.85	124	378	V
* 9.031	32.72	PK2	37.6	-25.9	16.9	61.32	74	12.68	277	374	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	59.71	PK2	27	-26.9	7.3	67.11	82.6	15.49	181	159	H
6.32	31.95	PK2	34.9	-26.4	14	54.45	82.6	28.15	348	276	H
7.222	32.03	PK2	36.3	-26.2	15	57.13	82.6	25.47	356	263	H
1.805	61.58	PK2	27	-26.9	7.3	68.98	82.6	13.62	100	135	V
6.322	33.24	PK2	34.9	-26.4	14	55.74	82.6	26.86	226	305	V
7.224	32.1	PK2	36.3	-26.2	15	57.2	82.6	25.4	163	191	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	34.74	MAv1	29.3	-27.1	9	45.94	54	8.06	290	178	H
* 3.611	26.25	MAv1	31.6	-26.8	10.4	41.45	54	12.55	279	108	H
* 4.514	23.92	MAv1	32.2	-26.6	11.7	41.22	54	12.78	229	291	H
* 5.417	20.32	MAv1	34.3	-26.7	12.9	40.82	54	13.18	282	120	H
* 8.128	21.46	MAv1	37.1	-26.2	16	48.36	54	5.64	30	262	H
* 9.029	21.46	MAv1	37.6	-25.9	16.9	50.06	54	3.94	288	378	H
* 2.708	36.95	MAv1	29.3	-27.1	9	48.15	54	5.85	315	103	V
* 3.611	25.7	MAv1	31.6	-26.8	10.4	40.9	54	13.1	184	130	V
* 4.516	25.82	MAv1	32.2	-26.6	11.7	43.12	54	10.88	307	144	V
* 5.418	21.21	MAv1	34.3	-26.7	12.9	41.71	54	12.29	210	313	V
* 8.126	21.17	MAv1	37.1	-26.2	16	48.07	54	5.93	124	378	V
* 9.027	21.93	MAv1	37.6	-25.9	16.9	50.53	54	3.47	277	374	V

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

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	44.15	PK2	29.4	-27	9	55.55	74	18.45	87	100	H
* 3.657	33.79	PK2	31.8	-26.9	10.4	49.09	74	24.91	279	317	H
* 4.571	31.98	PK2	32.2	-26.7	11.8	49.28	74	24.72	22	289	H
* 7.313	31.39	PK2	36.7	-26.2	15.1	56.99	74	17.01	257	197	H
* 8.229	30.03	PK2	37.1	-26.1	16.1	57.13	74	16.87	23	350	H
* 9.142	30.42	PK2	37.6	-25.9	16.9	59.02	74	14.98	231	301	H
* 2.742	49.13	PK2	29.4	-27	9	60.53	74	13.47	0	137	V
* 3.658	34.03	PK2	31.8	-26.9	10.4	49.33	74	24.67	276	133	V
* 4.573	33.06	PK2	32.2	-26.7	11.8	50.36	74	23.64	276	133	V
* 7.316	32.01	PK2	36.7	-26.2	15.1	57.61	74	16.39	314	242	V
* 8.227	31.99	PK2	37.1	-26.1	16.1	59.09	74	14.91	178	116	V
* 9.142	31.03	PK2	37.6	-25.9	16.9	59.63	74	14.37	166	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
1.828	58.95	PK2	27.2	-26.9	7.3	66.55	80.8	14.25	190	156	H
5.485	30.67	PK2	34.4	-26.6	13	51.47	80.8	29.33	84	264	H
6.402	33.47	PK2	34.8	-26.2	14.1	56.17	80.8	24.63	354	283	H
1.828	60.46	PK2	27.2	-26.9	7.3	68.06	80.8	12.74	352	153	V
5.488	29.92	PK2	34.4	-26.6	13	50.72	80.8	30.08	179	160	V
6.402	32.81	PK2	34.8	-26.2	14.1	55.51	80.8	25.29	238	279	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
* 2.742	36.46	MAv1	29.4	-27	9	47.86	54	6.14	87	100	H
* 3.656	25.8	MAv1	31.8	-26.9	10.4	41.1	54	12.9	279	317	H
* 4.571	23.73	MAv1	32.2	-26.7	11.8	41.03	54	12.97	22	289	H
* 7.313	22.04	MAv1	36.7	-26.2	15.1	47.64	54	6.36	257	197	H
* 8.23	21.11	MAv1	37.1	-26.1	16.1	48.21	54	5.79	23	350	H
* 9.142	21.64	MAv1	37.6	-25.9	16.9	50.24	54	3.76	231	301	H
* 2.742	41.65	MAv1	29.4	-27	9	53.05	54	0.95	0	137	V
* 3.656	24.77	MAv1	31.8	-26.9	10.4	40.07	54	13.93	276	133	V
* 4.572	21.81	MAv1	32.2	-26.7	11.8	39.11	54	14.89	276	133	V
* 7.313	22.86	MAv1	36.7	-26.2	15.1	48.46	54	5.54	314	242	V
* 8.23	21.35	MAv1	37.1	-26.1	16.1	48.45	54	5.55	178	116	V
* 9.141	20.96	MAv1	37.6	-25.9	16.9	49.56	54	4.44	166	311	V

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

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
* 2.78	39.54	PK2	29.5	-27.1	9.1	51.04	74	22.96	156	369	H
* 3.708	32	PK2	32	-26.9	10.6	47.7	74	26.3	28	311	H
* 3.708	31.96	PK2	32	-26.9	10.6	47.66	74	26.34	28	311	H
* 4.634	31.84	PK2	32.4	-26.6	11.8	49.44	74	24.56	231	307	H
* 7.415	30.95	PK2	36.8	-26.2	15.2	56.75	74	17.25	243	209	H
* 8.343	30.28	PK2	37.3	-26.1	16.2	57.68	74	16.32	256	252	H
* 2.781	42.09	PK2	29.5	-27.1	9.1	53.59	74	20.41	83	368	V
* 3.707	32.17	PK2	32	-26.9	10.6	47.87	74	26.13	131	371	V
* 4.637	33.44	PK2	32.4	-26.6	11.8	51.04	74	22.96	327	339	V
* 7.417	30.98	PK2	36.8	-26.2	15.2	56.78	74	17.22	306	167	V
* 8.346	31.49	PK2	37.3	-26.1	16.2	58.89	74	15.11	355	369	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	48.94	PK2	27.5	-26.9	7.4	56.94	81.4	24.46	10	379	H
5.563	30.19	PK2	34.4	-26.4	13.1	51.29	81.4	30.11	258	272	H
6.488	32.78	PK2	34.8	-26.4	14.2	55.38	81.4	26.02	169	267	H
9.27	30.43	PK2	37.8	-26	17.1	59.33	81.4	22.07	207	189	H
1.854	51.23	PK2	27.5	-26.9	7.4	59.23	81.4	22.17	141	254	V
5.565	31.26	PK2	34.4	-26.4	13.1	52.36	81.4	29.04	113	296	V
6.488	32.87	PK2	34.8	-26.4	14.2	55.47	81.4	25.93	91	329	V
9.272	30.34	PK2	37.8	-26	17.1	59.24	81.4	22.16	53	189	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	31.03	MAv1	29.5	-27.1	9.1	42.53	54	11.47	156	369	H
* 3.71	22.36	MAv1	32	-26.9	10.6	38.06	54	15.94	28	311	H
* 3.71	22.45	MAv1	32	-26.9	10.6	38.15	54	15.85	28	311	H
* 4.634	22.96	MAv1	32.4	-26.6	11.8	40.56	54	13.44	231	307	H
* 7.416	21.65	MAv1	36.8	-26.2	15.2	47.45	54	6.55	243	209	H
* 8.346	21.55	MAv1	37.3	-26.1	16.2	48.95	54	5.05	256	252	H
* 2.781	34.83	MAv1	29.5	-27.1	9.1	46.33	54	7.67	83	368	V
* 3.71	23.82	MAv1	32	-26.9	10.6	39.52	54	14.48	131	371	V
* 4.635	23.85	MAv1	32.4	-26.6	11.8	41.45	54	12.55	327	339	V
* 7.416	21.6	MAv1	36.8	-26.2	15.2	47.4	54	6.6	306	167	V
* 8.346	21.86	MAv1	37.3	-26.1	16.2	49.26	54	4.74	355	369	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

5.3 Effective Isotropic Radiated Power

EUT Nomenclature	Wireless Smoke Detector	Test Request No.	20295-1
Model No.	FWH-200FIX135	Serial No.	MEL-153
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		
Comment	NA		

MAXIMUM OPERATING FREQUENCY

902 MHz to 928 MHz

TEST PARAMETERS

Antenna Height	1m to 4m	Turntable Rotation	NA
Applicable Standard	RSS 210 Issue 8 RSS Gen Issue 8	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	97.1	5.2	10.6
1	902.875	V	86.44	-4.8	0.6
1	914.325	H	97.43	6.6	12
1	914.325	V	87.54	-2.85	2.55
1	927.125	H	99.08	9.4	14.8
1	927.125	V	78.15	-10.8	-5.4
2	902.875	H	102.98	11.1	16.5
2	902.875	V	92.41	1.2	6.6
2	914.325	H	100.73	9.9	15.3
2	914.325	V	88.52	-1.9	3.5
2	927.125	H	100.63	11	16.4
2	927.125	V	80.29	-8.7	-3.3
3	902.875	H	97.71	5.8	11.2
3	902.875	V	88.39	-2.85	2.55
3	914.325	H	94.19	3.4	8.8
3	914.325	V	73.95	-16.5	-11.1
3	927.125	H	95.86	6.15	11.55
3	927.125	V	75.01	-14	-8.6

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

Wireless Photo Detector

6 FHSS CHANNELS

6.1 PEAK OUTPUT POWER

EUT Nomenclature	Wireless Photo Detector	Test Request No.	20295-1
Model No.	FWD-200P	Serial No.	MEL-147
Test Start Date	2016-08-03	Temperature (°C)	25°C
Test End Date	2016-08-05	Humidity RH (%)	50%
Tested By	Arnoldo Garcia	Pressure (mbar)	NR
Input Voltage / Freq.	3.5 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

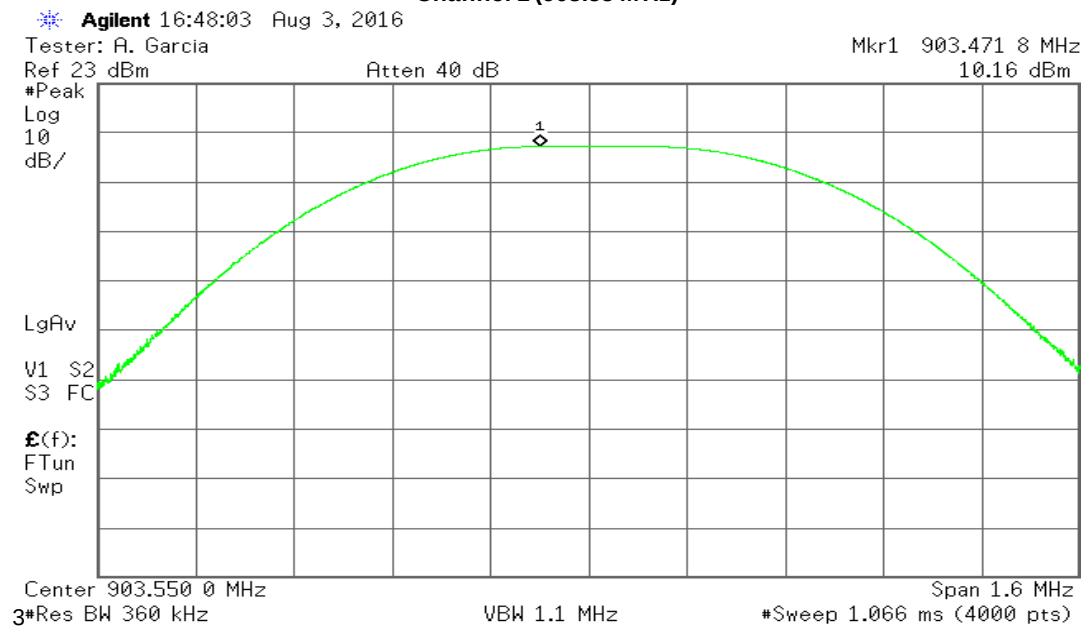
Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

TEST EQUIPMENT

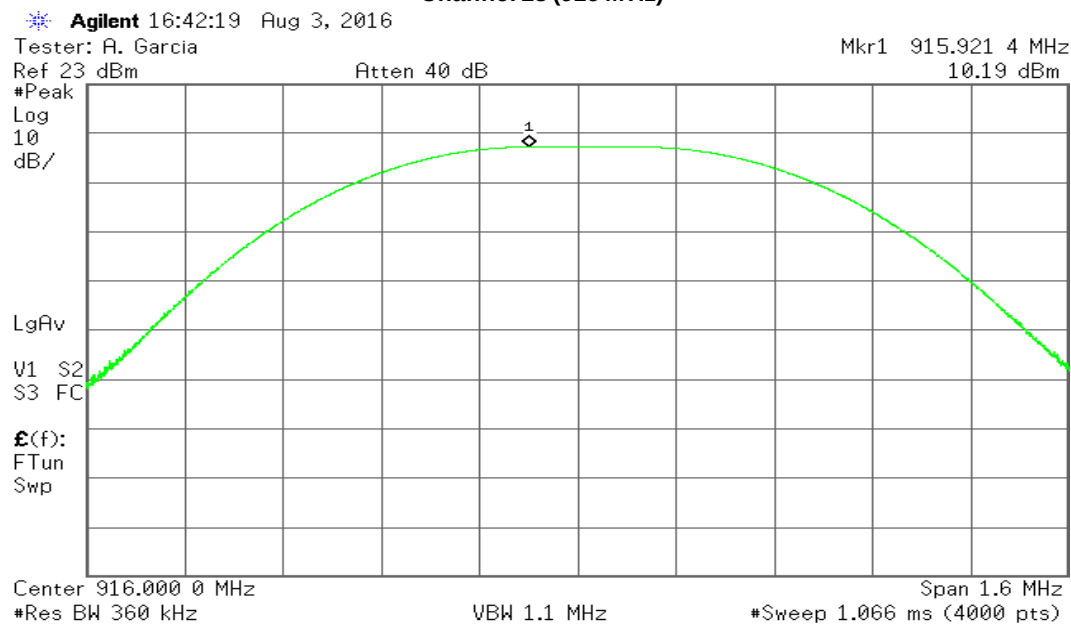
Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Keysight	PSA E4440	192484	2017-05-18
Y	RF Cable	Digikey	1	NA	NA

ANTENNA 1 TEST GRAPHS

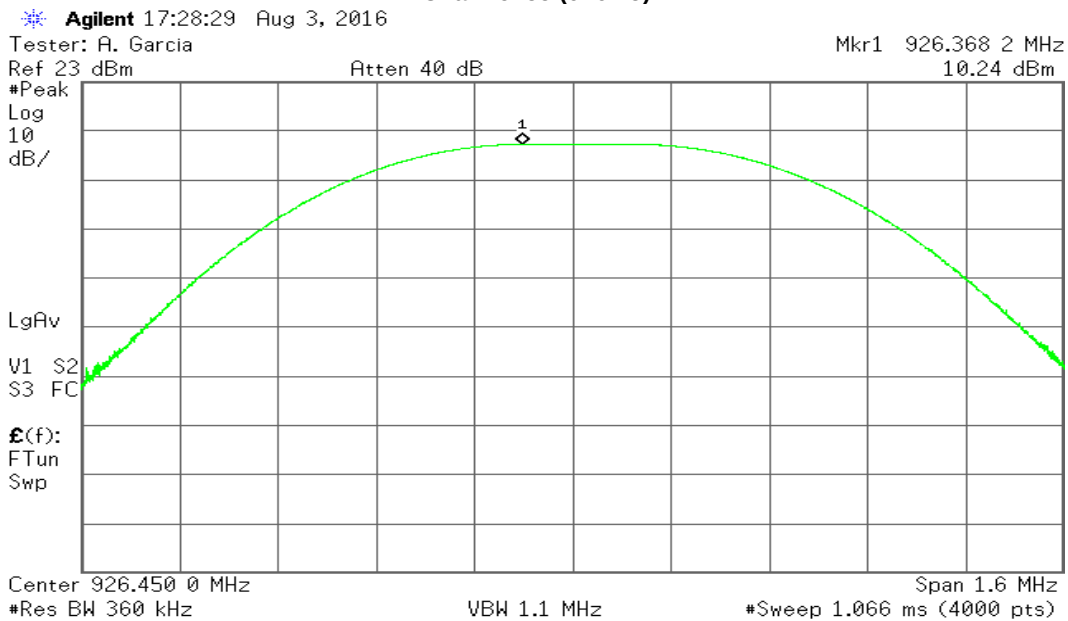
Channel 1 (903.55 MHz)



Channel 28 (916 MHz)

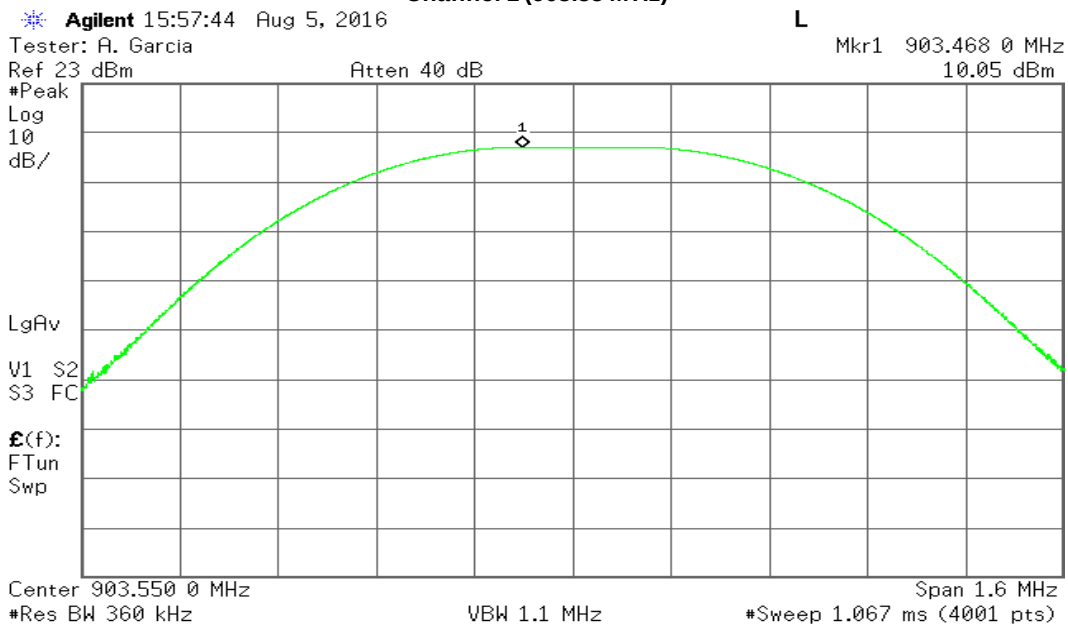


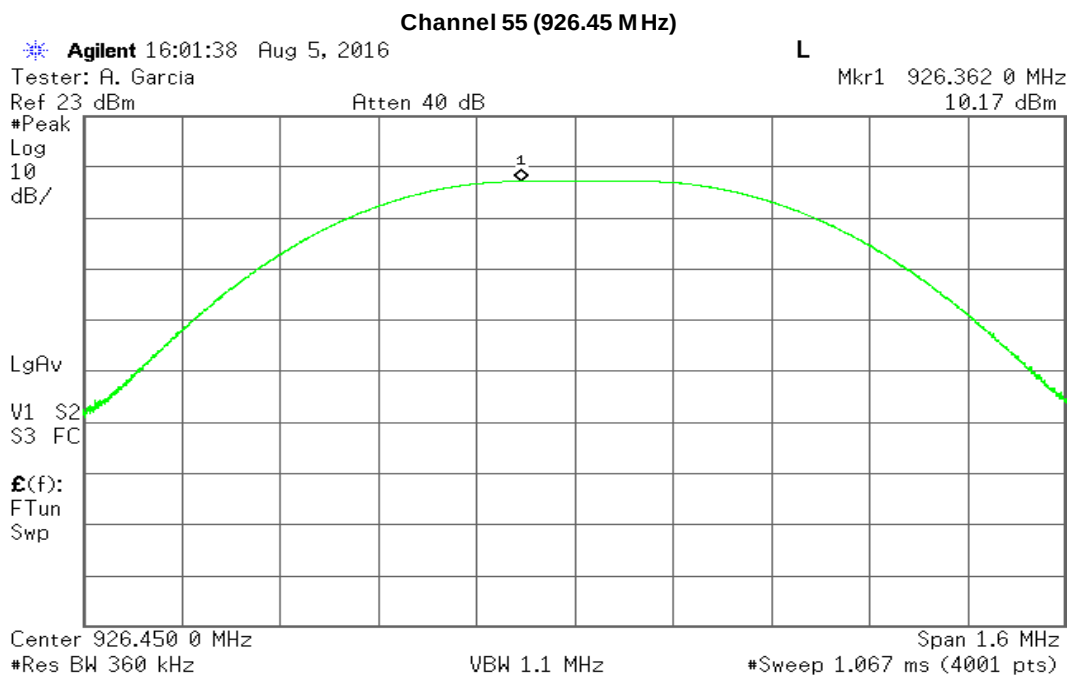
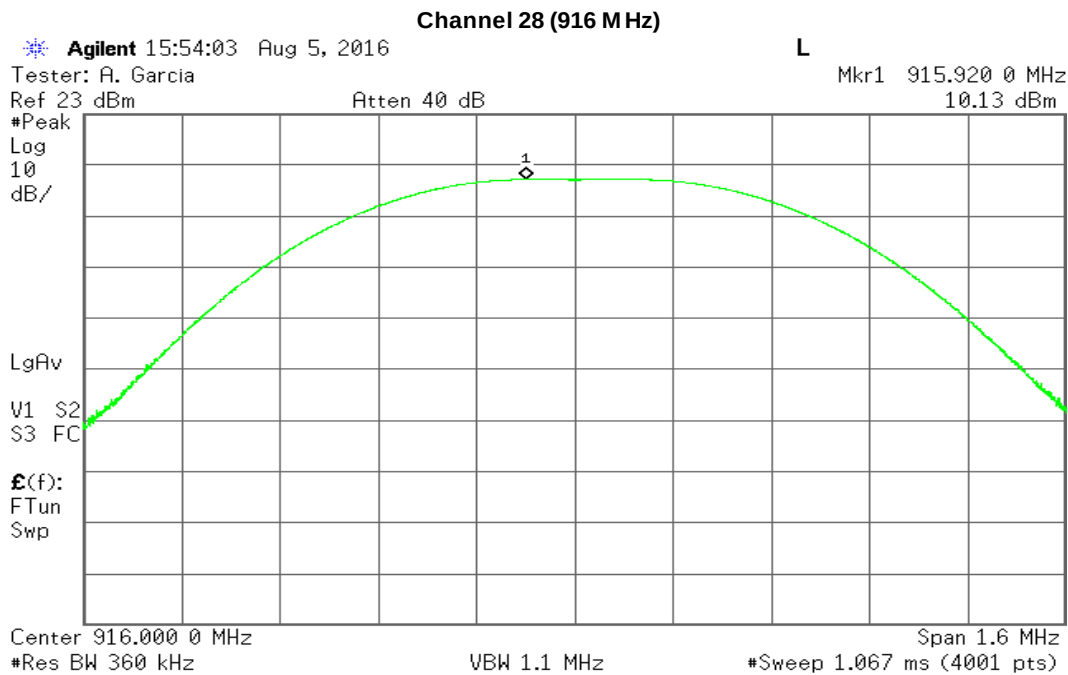
Channel 55 (926.45)



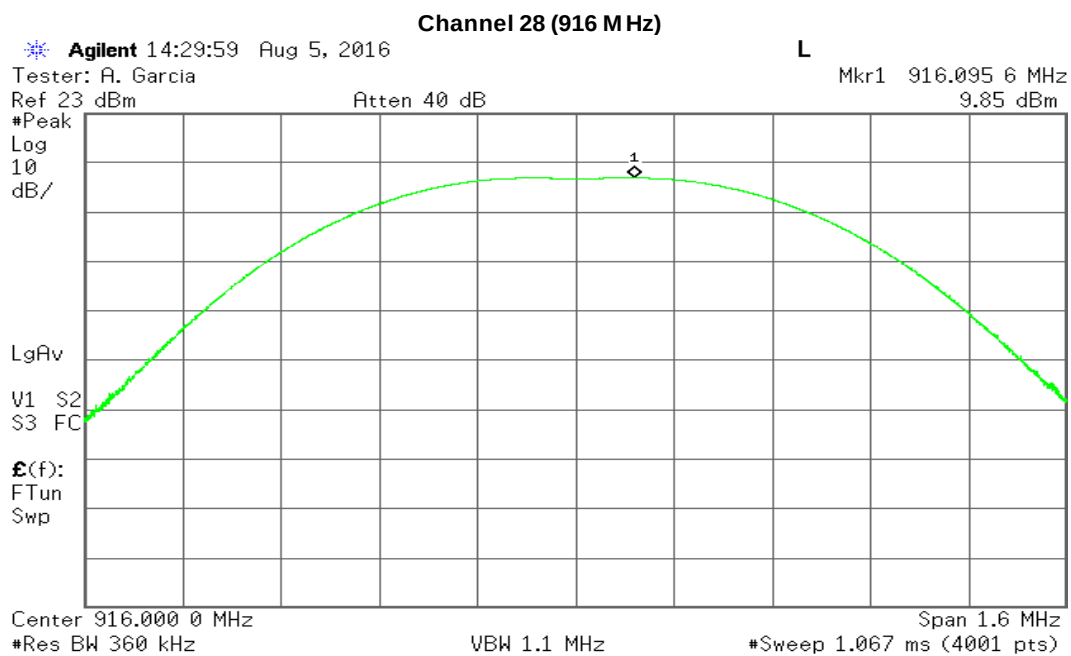
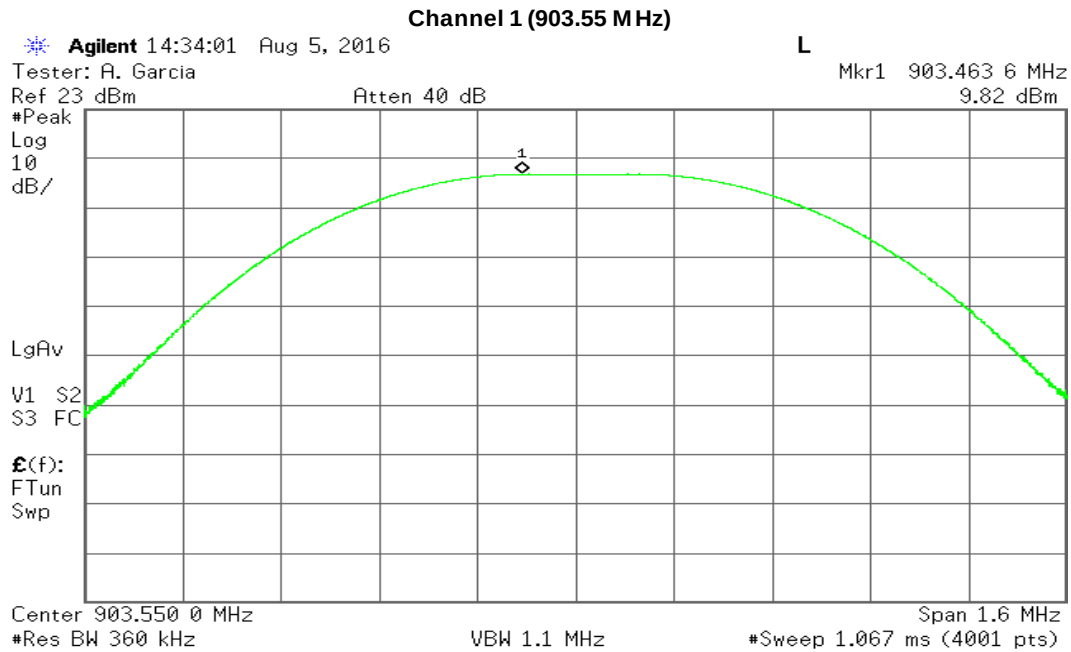
ANTENNA 2 TEST GRAPHS

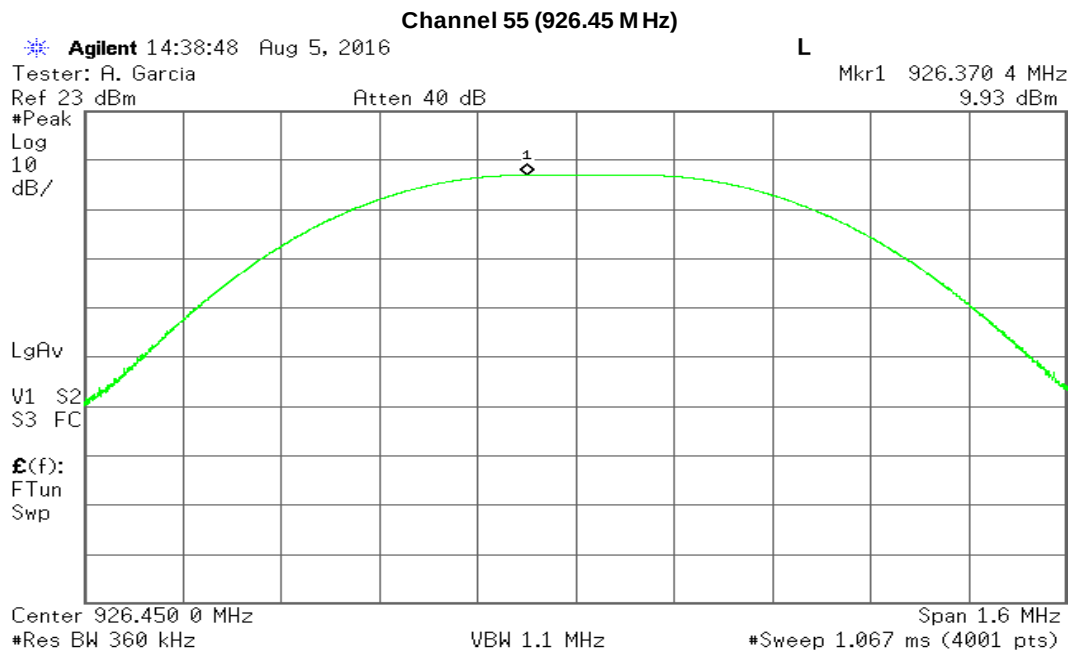
Channel 1 (903.55 MHz)





ANTENNA 3 TEST GRAPHS





TEST RESULT

Antenna	Channel	Frequency	Measured Power Level	Cable Loss+ Attenuator	Transmitter Power Level	Limit	Result
#	#	MHz	dBm	dB	dBm	dBm	
1	1	903.55	10.16	6.5	16.66	≤23.979	PASS
	28	916	10.19	6.5	16.69	≤23.979	PASS
	55	926.45	10.24	6.5	16.74	≤23.979	PASS
2	1	903.55	10.05	6.5	16.55	≤23.979	PASS
	28	916	10.13	6.5	16.63	≤23.979	PASS
	55	926.45	10.17	6.5	16.67	≤23.979	PASS
3	1	903.55	9.82	6.5	16.32	≤23.979	PASS
	28	916	9.85	6.5	16.35	≤23.979	PASS
	55	926.45	9.93	6.5	16.43	≤23.979	PASS

Note: Transmitter Output Power = Measured Level (dBm) + Cable Loss (dB) + Attenuator (dB)

TEST SETUP PHOTOGRAPH

Refer Annexure – 1

Conducted RF Test Setup

6.2 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Photo Detector	Test Request No.	20295-1
Model No.	FWD-200P	Serial No.	MEL-147
Test Start Date	2016-09-29	Temperature (°C)	-10 to 35 °C
Test End Date	2017-03-28	Humidity RH (%)	35 to 90 %RH
Tested By	Arnoldo Garcia / 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

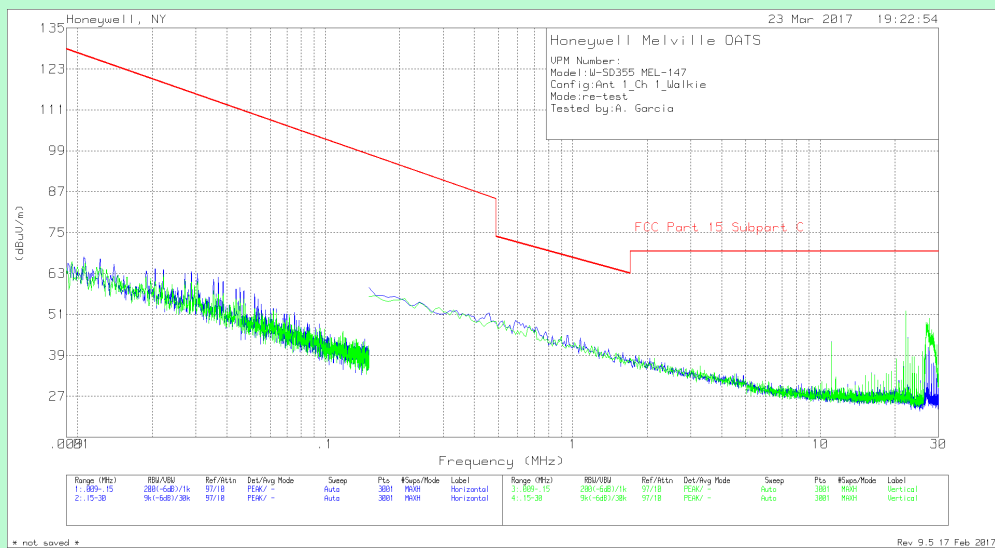
Antenna Height	1m to 4m	Turntable Rotation	0° to 360°
Equipment Class	NA	Measurement Distance	3m

TEST EQUIPMENT

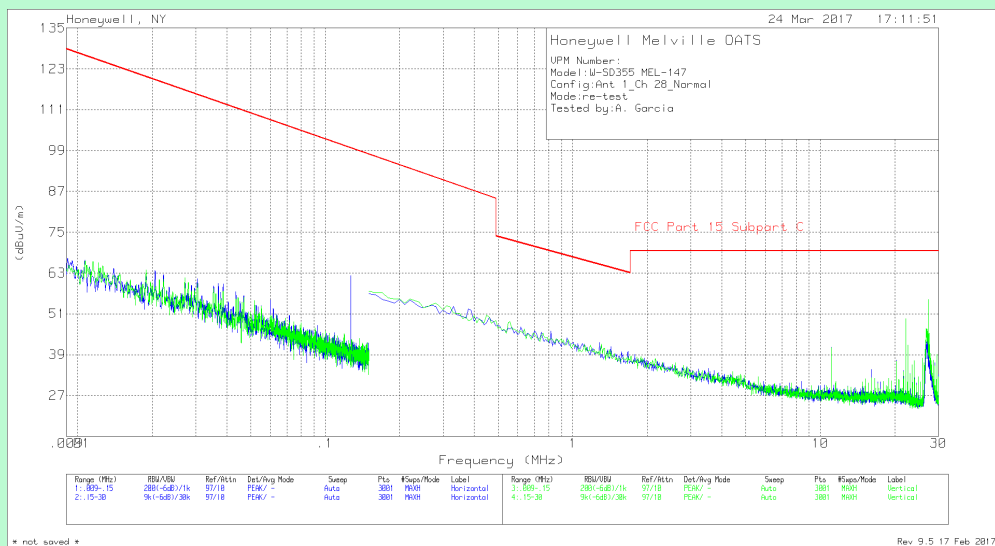
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Rohde & Schwarz	FSW26	103125	2018-02-14
Y	Spectrum Analyzer	Rohde & Schwarz	FSU26	100303	2017-03-31
Y	Bilog Antenna	Sunol	JB6	A012816	2018-03-09
Y	Bilog Antenna	Sunol	JB5	A022406	2017-12-18
Y	Horn Antenna	EMCO	RGA-60	3127	2017-02-03
Y	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

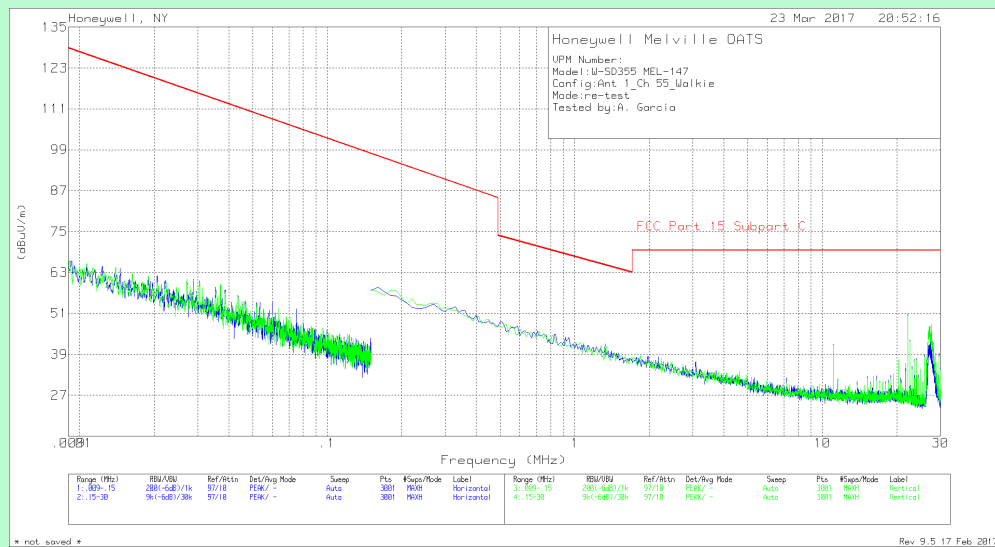
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916 MHz) – Antenna 1

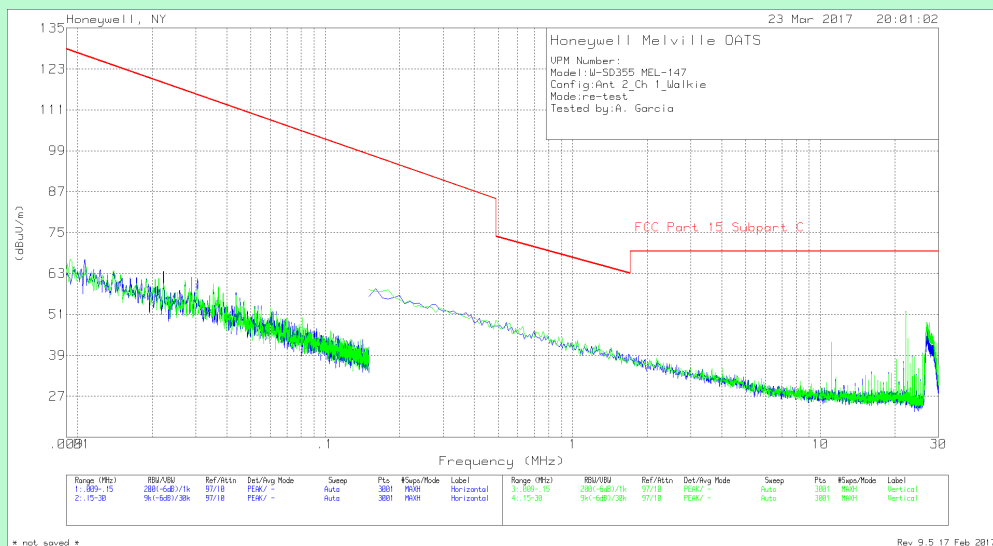


Channel 55 (926.45 MHz) – Antenna 1

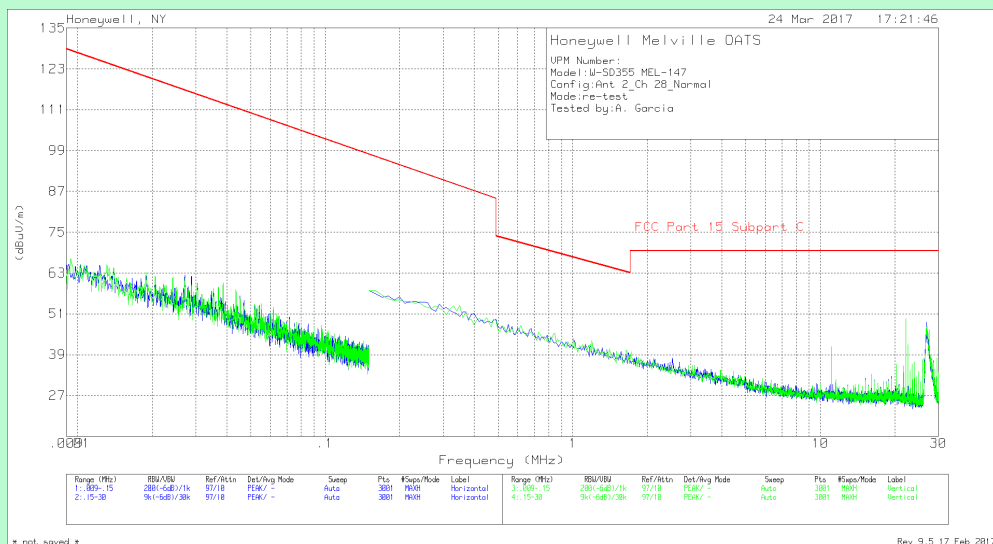
TEST RESULT – 9 KHz to 30 MHz

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)									

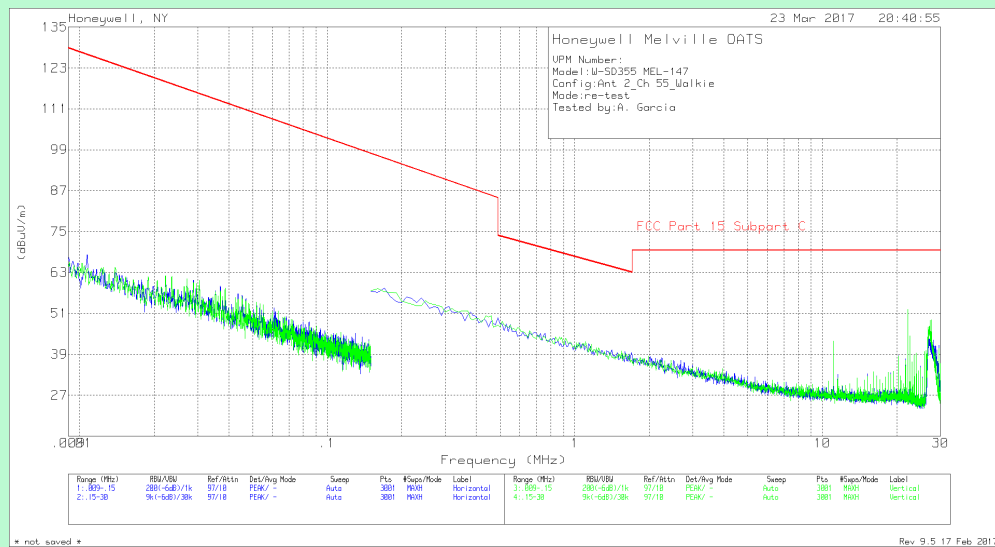
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916 MHz) – Antenna 2

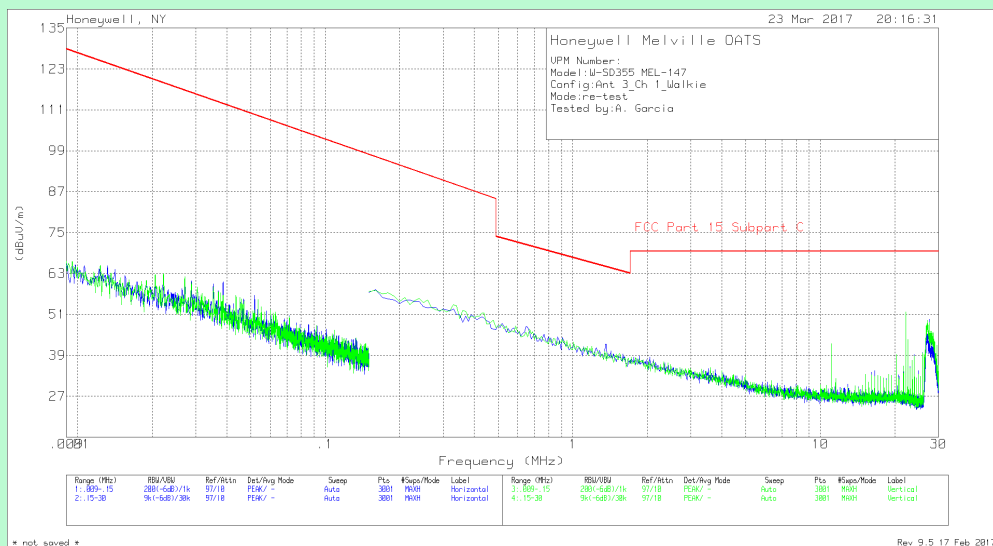


Channel 55 (926.45 MHz) – Antenna 2

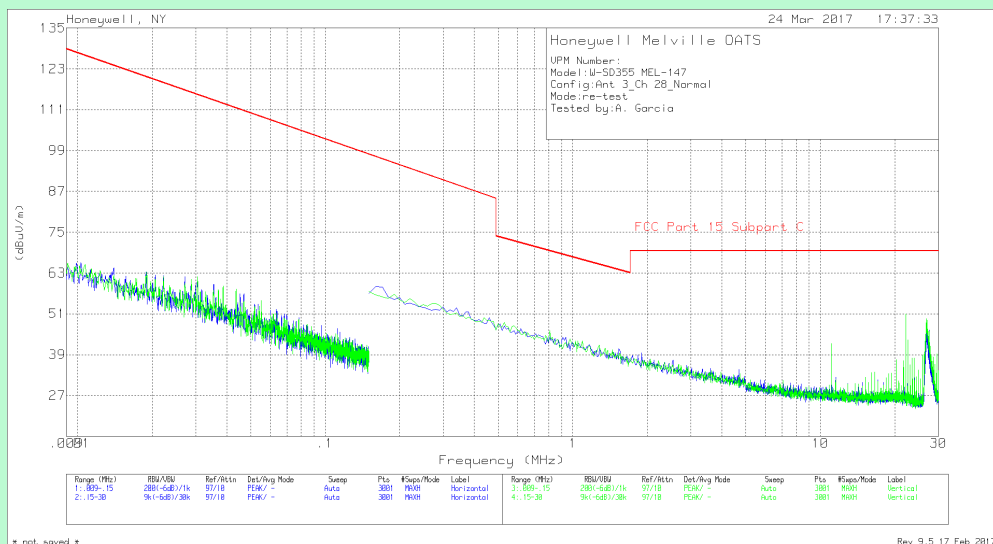
TEST RESULT – 9 KHz to 30 MHz

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)									

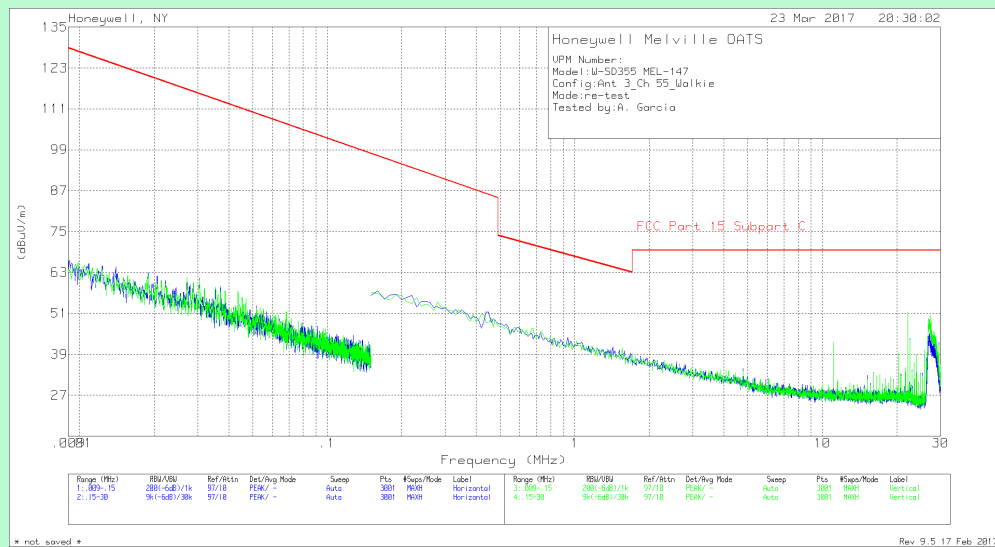
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916 MHz) – Antenna 3

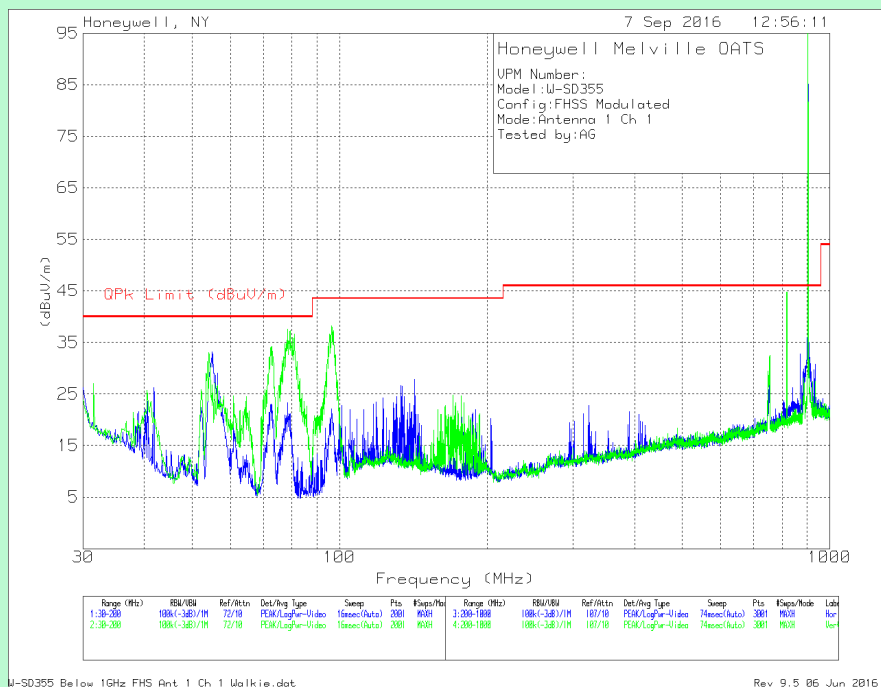


Channel 55 (926.45 MHz) – Antenna 3

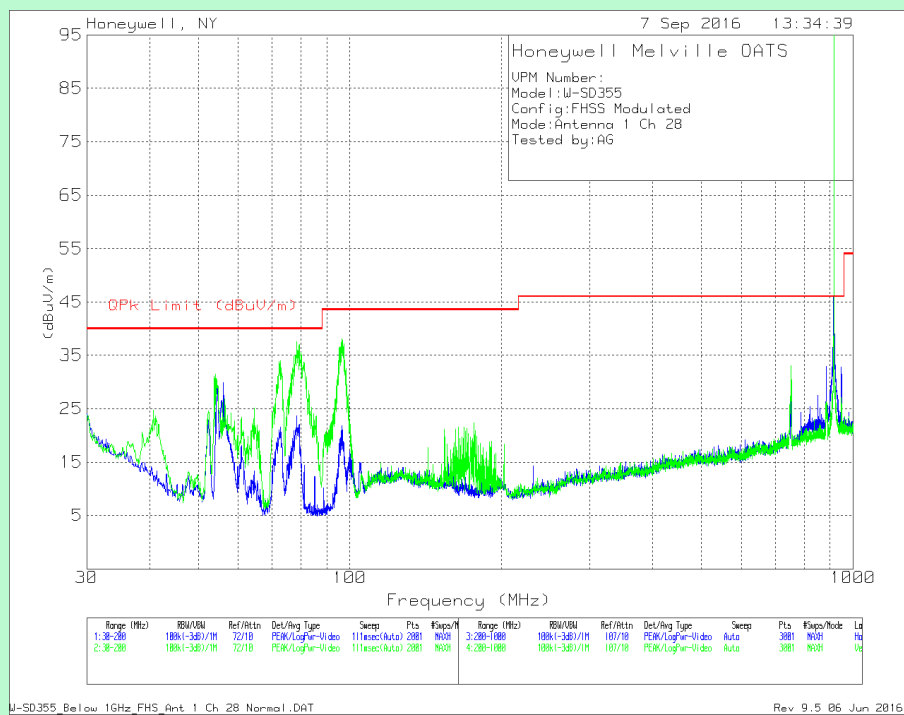
TEST RESULT – 9 KHz to 30 MHz

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)									

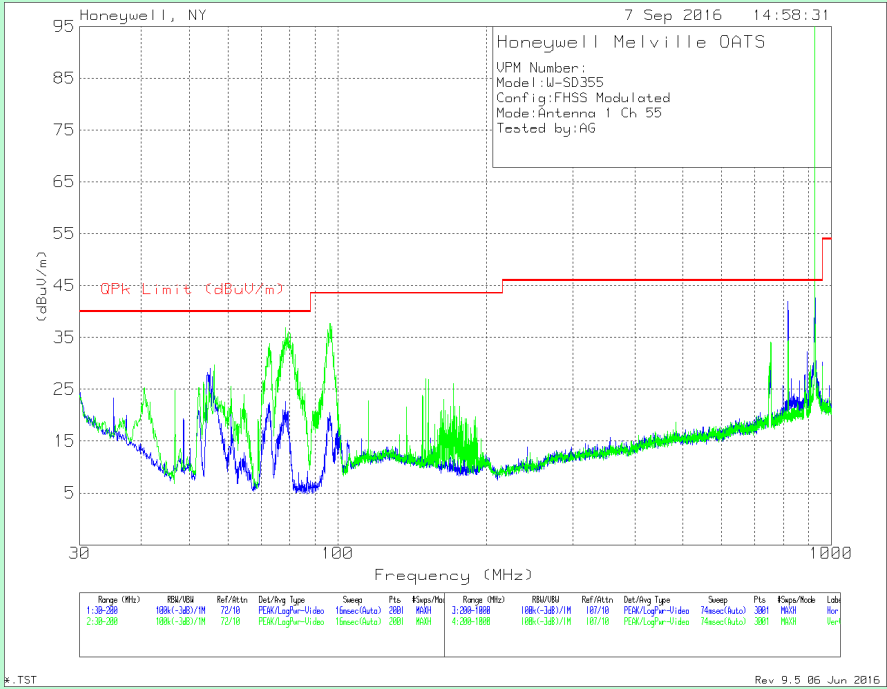
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916 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
54.494	44.97	Qp	12	-29	1.1	29.07	40	10.93	148	400	H
72.6427	41.23	Qp	12.2	-28.9	1.2	25.73	40	14.27	53	221	V
78.2407	41.37	Qp	12	-28.9	1.3	25.77	40	14.23	347	237	V
96.3305	42.47	Qp	13.4	-28.8	1.4	28.47	43.52	15.05	51	123	V
** 903.614	104.26	Pk	27	-27.6	5.5	109.16	-	-	0	142	H
817.8674	21.22	Qp	26.3	-27.9	5.2	24.82	46.02	21.2	70	343	H
** 903.61	95.93	Pk	27	-27.6	5.5	100.83	-	-	59	138	V
818.0008	33.5	Qp	26.3	-27.9	5.2	37.1	46.02	8.92	353	388	V
Channel 28											
55.928	44.08	Qp	11.9	-29	1.1	28.08	40	11.92	234	400	H
54.3193	49.42	Qp	12	-29	1.1	33.52	40	6.48	121	116	V
72.9149	39.86	Qp	12.2	-28.9	1.2	24.36	40	15.64	65	232	V
78.5412	42.19	Qp	12	-28.9	1.3	26.59	40	13.41	296	233	V
97.0466	51.34	Qp	13.5	-28.8	1.4	37.44	43.52	6.08	335	169	V
** 916.064	105.01	Pk	27.3	-27.5	5.6	110.41	-	-	344	143	H
753.8674	12.91	Qp	25.7	-	5	43.61	46.02	2.41	250	141	H
** 915.972	95.95	Pk	27.3	-27.5	5.6	101.35	-	-	187	138	V
753.378	12.44	Qp	25.6	-	5	43.04	46.02	2.98	109	321	V
Channel 55											
55.214	44.76	Qp	11.9	-29	1.1	28.76	40	11.24	126	391	H
56.1956	51.47	Qp	11.9	-29	1.1	35.47	40	4.53	45	212	V
72.755	42.86	Qp	12.2	-28.9	1.2	27.36	40	12.64	209	364	V
79.3	40.23	Qp	12	-28.9	1.3	24.63	40	15.37	41	253	V
97.15	49.66	Qp	13.5	-28.8	1.4	35.76	43.52	7.76	277	111	V
** 926.414	105.51	Pk	27.3	-27.5	5.7	111.01	-	-	6	138	H
817.8674	21.34	Qp	26.3	-27.9	5.2	24.94	46.02	21.08	233	181	H
** 926.418	97.32	Pk	27.3	-27.5	5.7	102.82	-	-	216	130	V

Note :

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

** - indicates intended frequency

Pk - Peak detector

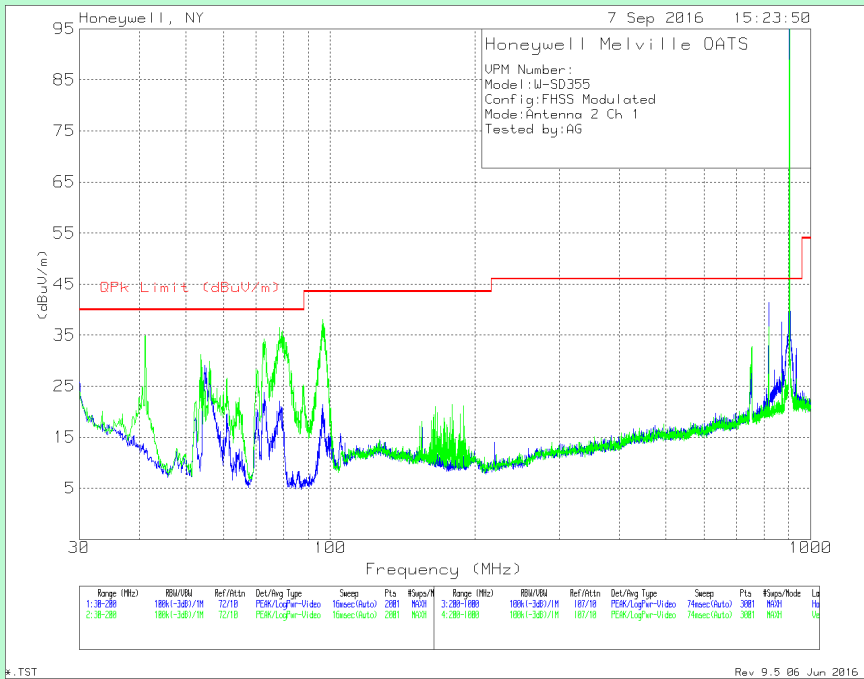
Qp - Quasi-Peak detector

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

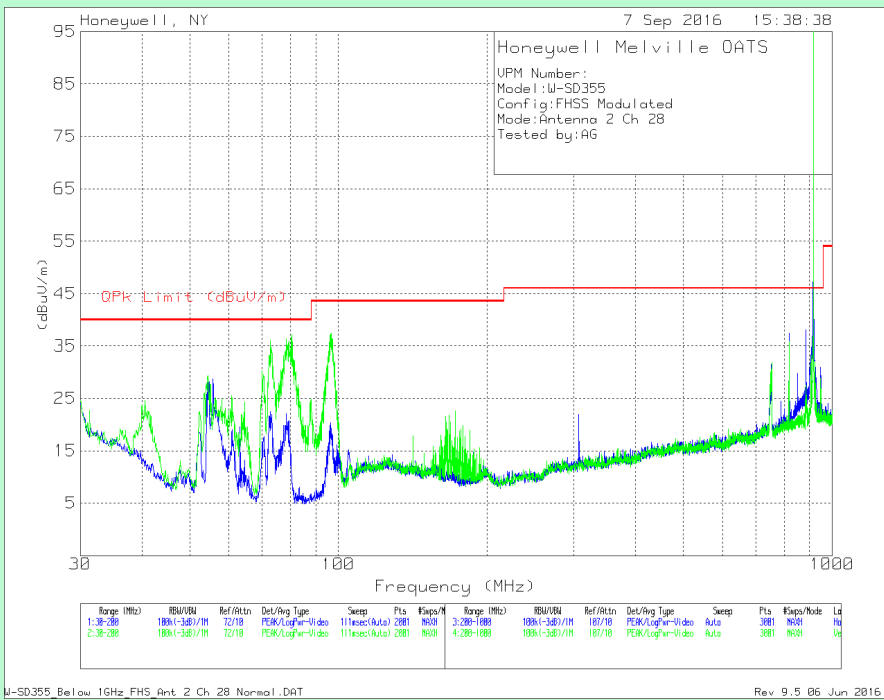
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

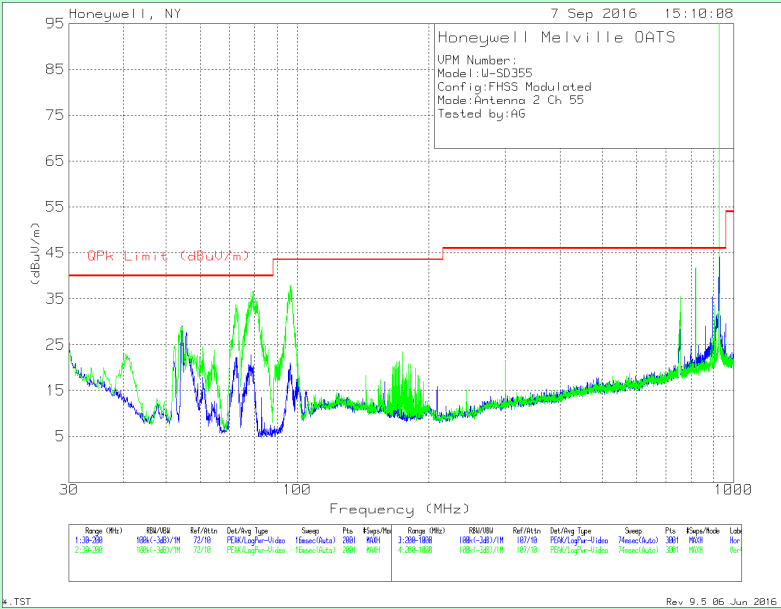
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916 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
54.82	42.56	Qp	11.9	-29	1.1	26.56	40	13.44	145	361	H
41.22	43.87	Qp	17.6	-29	.9	33.37	40	6.63	239	196	V
53.8	43.49	Qp	12	-29	1.1	27.59	40	12.41	302	386	V
72.7975	42.35	Qp	12.2	-28.9	1.2	26.85	40	13.15	177	377	V
78.365	41.87	Qp	12	-28.9	1.3	26.27	40	13.73	286	294	V
96.385	34.24	Qp	13.4	-28.8	1.4	20.24	43.52	23.28	43	125	V
** 903.622	107.22	Pk	27	-27.6	5.5	112.12	-	-	1	153	H
566.9338	42.76	Qp	23.1	-29	4.1	40.96	46.02	5.06	227	137	H
817.6008	22.47	Qp	26.3	-27.9	5.2	26.07	46.02	19.95	126	371	H
** 903.51	100.11	Pk	27	-27.6	5.5	105.01	-	-	64	143	V
Channel 28											
55.67	39.52	Qp	11.9	-29	1.1	23.52	40	16.48	9	186	H
72.84	43.24	Qp	12.2	-28.9	1.2	27.74	40	12.26	267	384	V
80.405	45.45	Qp	11.9	-28.9	1.3	29.75	40	10.25	136	163	V
96.81	13.88	Qp	13.5	-28.8	1.4	-.02	43.52	43.54	233	155	V
** 915.964	105.76	Pk	27.3	-27.5	5.6	111.16	-	-	193	149	H
818.1341	26.5	Qp	26.3	-27.9	5.2	30.1	46.02	15.92	160	147	H
** 916.072	99.18	Pk	27.3	-27.5	5.6	104.58	-	-	258	139	V
818.1341	24.13	Qp	26.3	-27.9	5.2	27.73	46.02	18.29	357	261	V
Channel 55											
54.565	44.35	Qp	11.9	-29	1.1	28.35	40	11.65	174	391	H
54.225	47.96	Qp	12	-29	1.1	32.06	40	7.94	167	152	V
72.7975	43.08	Qp	12.2	-28.9	1.2	27.58	40	12.42	241	380	V
79.215	39.12	Qp	12	-28.9	1.3	23.52	40	16.48	148	315	V
96.2477	47.77	Qp	13.3	-28.8	1.4	33.67	43.52	9.85	77	116	V
** 926.414	104.56	Pk	27.3	-27.5	5.7	110.06	-	-	171	149	H
818.1341	38.61	Qp	26.3	-27.9	5.2	42.21	46.02	3.81	169	146	H
** 926.414	98.29	Pk	27.3	-27.5	5.7	103.79	-	-	252	138	V

Note:

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

** - indicates intended frequency

Pk - Peak detector

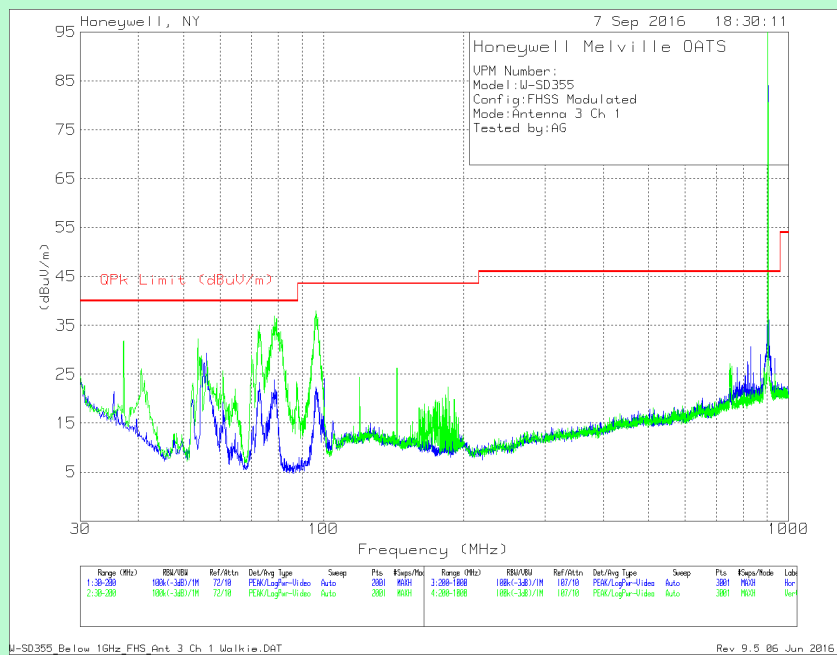
Qp - Quasi-Peak detector

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

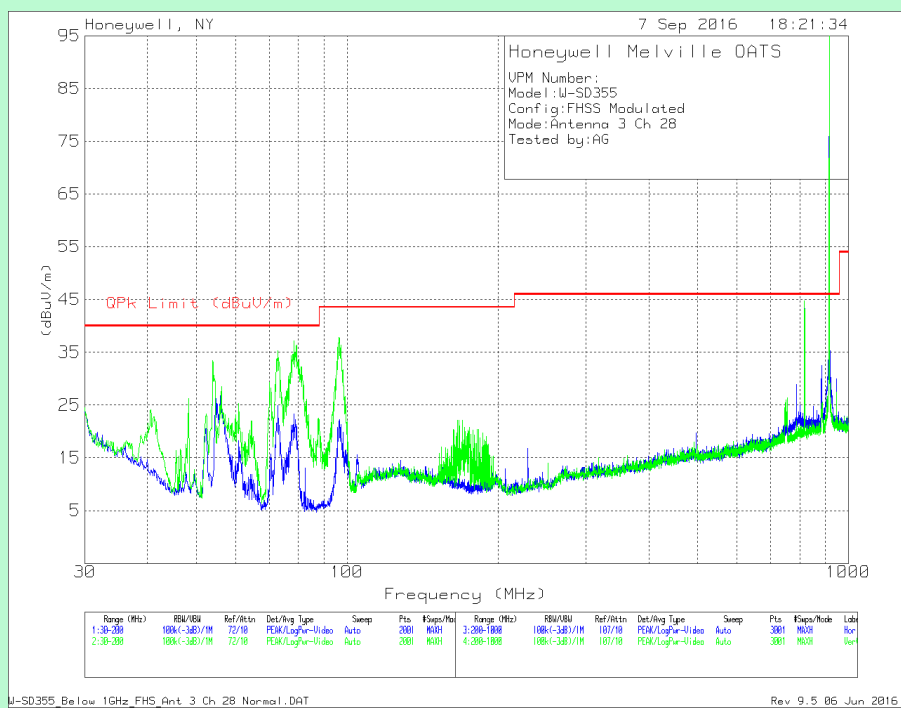
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

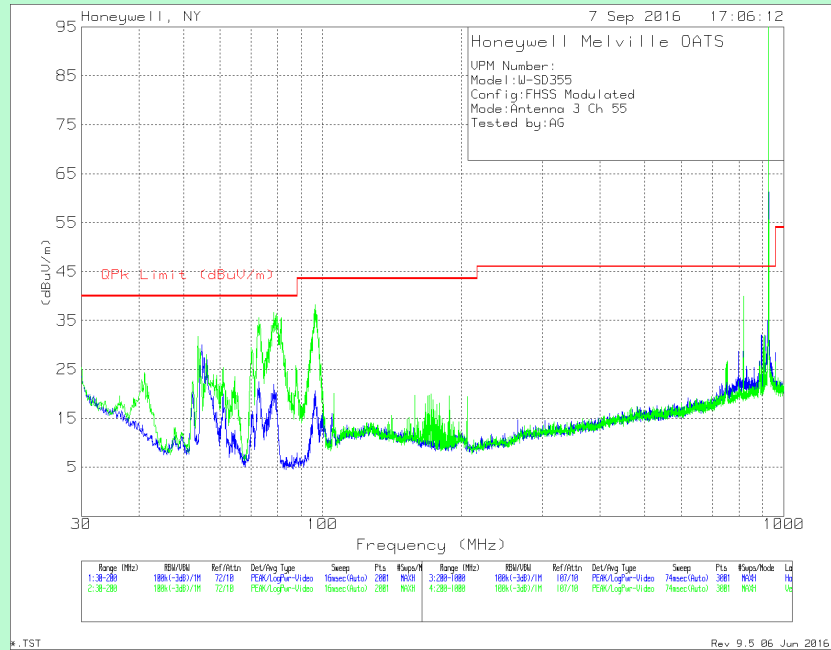
TEST GRAPHS –30 MHz to 1 GHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916 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
56.01	42.21	Qp	11.9	-29	1.1	26.21	40	13.79	30	319	H
37.225	9.76	Qp	20.7	-	.9	31.36	40	8.64	249	260	V
53.4966	48.84	Qp	12.1	-29	1.1	33.04	40	6.96	153	305	V
72.5465	41.13	Qp	12.2	-28.9	1.2	25.63	40	14.37	16	109	V
79.419	43.65	Qp	12	-28.9	1.3	28.05	40	11.95	76	134	V
96.2651	39.15	Qp	13.4	-28.8	1.4	25.15	43.52	18.37	235	142	V
** 903.51	103.5	Pk	27	-27.6	5.5	108.4	-	-	148	154	H
** 903.614	95.8	Pk	27	-27.6	5.5	100.7	-	-	92	160	V
Channel 28											
53.97	47.91	Qp	12	-29	1.1	32.01	40	7.99	22	102	V
72.84	42.99	Qp	12.2	-28.9	1.2	27.49	40	12.51	49	370	V
78.365	41.42	Qp	12	-28.9	1.3	25.82	40	14.18	49	102	V
96.3	46.4	Qp	13.4	-28.8	1.4	32.4	43.52	11.12	214	374	V
** 916.056	104.14	Pk	27.3	-27.5	5.6	109.54	-	-	168	100	H
818.4008	24.22	Qp	26.3	-27.9	5.2	27.82	46.02	18.2	222	236	H
** 915.968	95.52	Pk	27.3	-27.5	5.6	100.92	-	-	117	159	V
817.6008	28.43	Qp	26.3	-27.9	5.2	32.03	46.02	13.99	121	253	V
Channel 55											
54.82	43.52	Qp	11.9	-29	1.1	27.52	40	12.48	164	397	H
53.715	50.54	Qp	12	-29	1.1	34.64	40	5.36	13	193	V
72.84	41.67	Qp	12.2	-28.9	1.2	26.17	40	13.83	289	125	V
78.365	39.47	Qp	12	-28.9	1.3	23.87	40	16.13	307	264	V
96.385	39.23	Qp	13.4	-28.8	1.4	25.23	43.52	18.29	338	388	V
** 926.422	103.76	Pk	27.3	-27.5	5.7	109.26	-	-	144	149	H
817.8674	21.53	Qp	26.3	-27.9	5.2	25.13	46.02	20.89	337	133	H
** 926.422	96.15	Pk	27.3	-27.5	5.7	101.65	-	-	79	152	V
818.1341	25.23	Qp	26.3	-27.9	5.2	28.83	46.02	17.19	270	258	V

Note:

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

** - indicates intended frequency

Pk - Peak detector

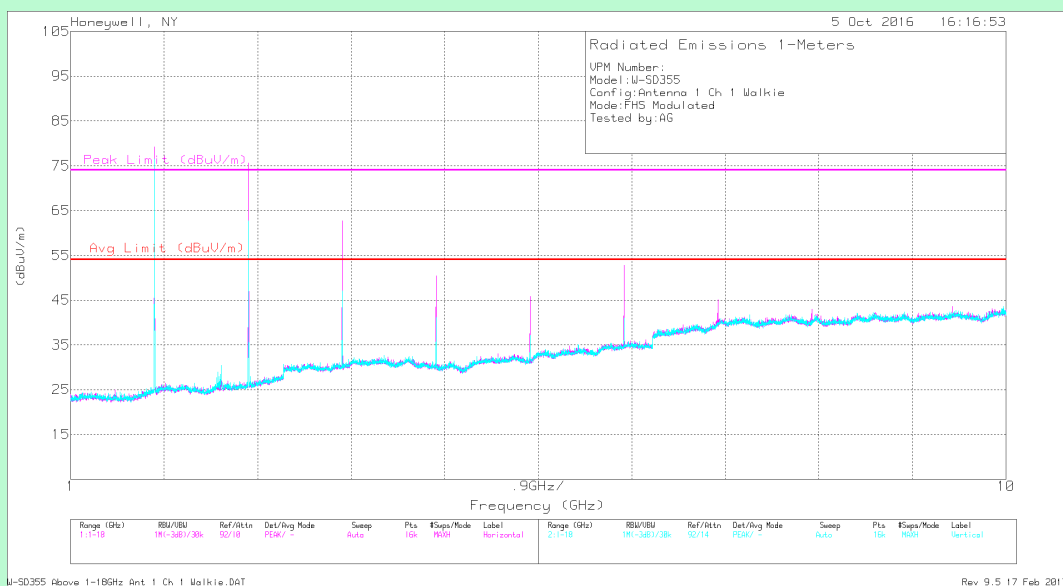
Qp - Quasi-Peak detector

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

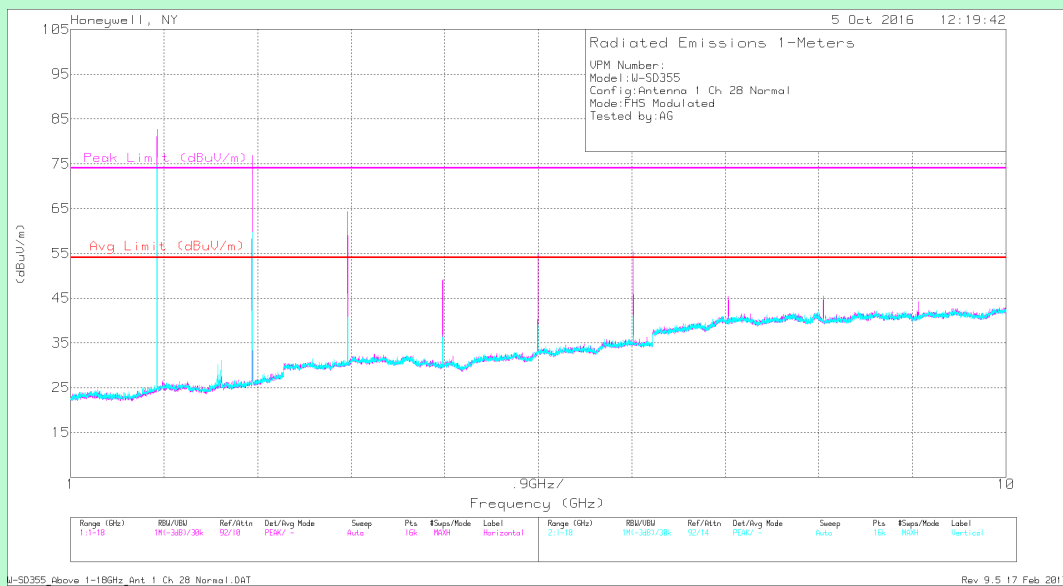
Prescans performed in a pre-compliance chamber. Final measurements performed on an OATS.

Emissions shown in the plot are related to the chamber ambient

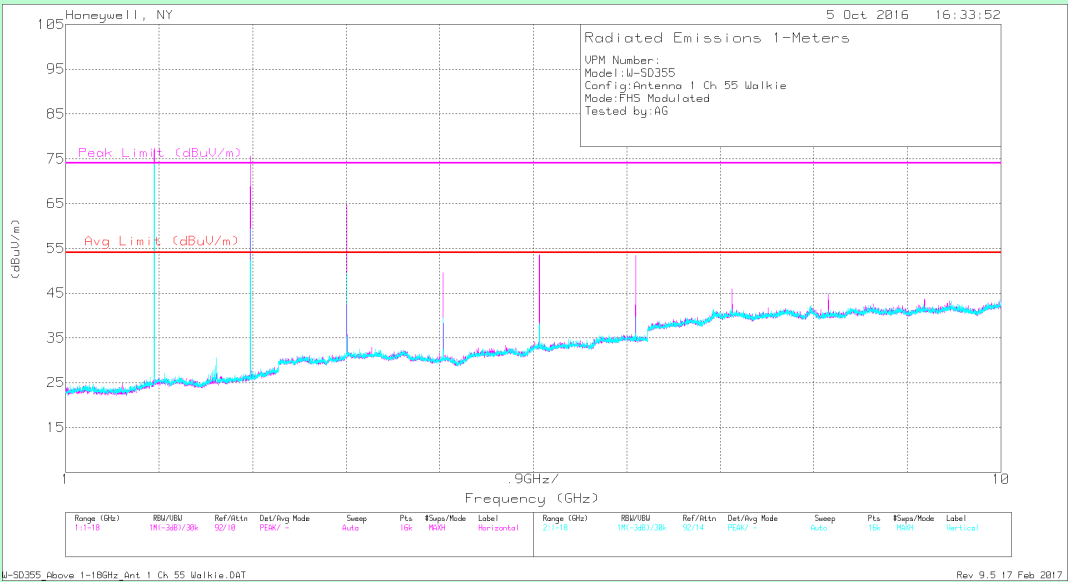
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 1)



Channel 1 (903.55 MHz) – Antenna 1



Channel 28 (916 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	46.14	PKFH	29.3	-27.1	5	53.34	74	20.66	301	317	H
* 3.614	43.65	PKFH	31.6	-26.8	5.4	53.85	74	20.15	93	103	H
* 4.518	41.86	PKFH	32.2	-26.6	6	53.46	74	20.54	195	360	H
* 5.421	43.1	PKFH	34.3	-26.7	6.4	57.1	74	16.9	349	332	H
* 8.131	41.85	PKFH	37.1	-26.2	7.5	60.25	74	13.75	168	367	H
* 9.036	42.5	PKFH	37.6	-25.9	7.3	61.5	74	12.5	62	378	H
* 2.711	46.77	PKFH	29.3	-27.1	5	53.97	74	20.03	275	330	V
* 3.615	43.47	PKFH	31.6	-26.8	5.4	53.67	74	20.33	151	355	V
* 4.517	42.02	PKFH	32.2	-26.6	6	53.62	74	20.38	28	307	V
* 5.422	46.07	PKFH	34.3	-26.7	6.4	60.07	74	13.93	50	262	V
* 8.133	42.77	PKFH	37.1	-26.2	7.5	61.17	74	12.83	130	328	V
* 9.035	41.78	PKFH	37.6	-25.9	7.3	60.78	74	13.22	13	231	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	56.97	PKFH	27.1	-26.9	4.2	61.37	89.2	27.83	264	148	H
6.326	43.71	PKFH	34.9	-26.4	7.1	59.31	89.2	29.89	157	366	H
7.228	43.02	PKFH	36.3	-26.2	6.8	59.92	89.2	29.28	147	393	H
1.807	55.6	PKFH	27.1	-26.9	4.2	60	89.2	29.2	194	254	V
6.324	44.22	PKFH	34.9	-26.4	7.1	59.82	89.2	29.38	80	248	V
7.229	44.15	PKFH	36.3	-26.2	6.8	61.05	89.2	28.15	320	260	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	41.08	VA1T	29.3	-27.1	5	-12.6	35.68	54	18.32	301	317	H
* 3.614	34.61	VA1T	31.6	-26.8	5.4	-12.6	32.21	54	21.79	93	103	H
* 4.518	30.57	VA1T	32.2	-26.6	6	-12.6	29.57	54	24.43	195	360	H
* 5.421	33.75	VA1T	34.3	-26.7	6.4	-12.6	35.15	54	18.85	349	332	H
* 8.133	30.85	VA1T	37.1	-26.2	7.5	-12.6	36.65	54	17.35	168	367	H
* 9.036	29.88	VA1T	37.6	-25.9	7.3	-12.6	36.28	54	17.72	62	378	H
* 2.711	41.95	VA1T	29.3	-27.1	5	-12.6	36.55	54	17.45	275	330	V
* 3.614	34	VA1T	31.6	-26.8	5.4	-12.6	31.6	54	22.4	151	355	V
* 4.518	31.13	VA1T	32.2	-26.6	6	-12.6	30.13	54	23.87	28	307	V
* 5.421	39.35	VA1T	34.3	-26.7	6.4	-12.6	40.75	54	13.25	50	262	V
* 8.133	32.32	VA1T	37.1	-26.2	7.5	-12.6	38.12	54	15.88	130	328	V
* 9.036	30.06	VA1T	37.6	-25.9	7.3	-12.6	36.46	54	17.54	13	231	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: 1.572 msec

Duty Cycle correction Factor = $20 \log(1.572 \times 8 / 100) = -18\text{dB}$

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
* 2.746	55.21	PKFH	29.4	-27	4.9	62.51	74	11.49	346	131	H
* 3.664	44.23	PKFH	31.8	-26.9	5.4	54.53	74	19.47	214	387	H
* 4.581	42.24	PKFH	32.2	-26.7	6	53.74	74	20.26	199	362	H
* 7.329	42.28	PKFH	36.7	-26.2	6.4	59.18	74	14.82	130	383	H
* 8.244	42.31	PKFH	37.1	-26.1	7.3	60.61	74	13.39	158	396	H
* 9.158	41.75	PKFH	37.6	-25.9	7.5	60.95	74	13.05	189	317	H
* 2.746	54.35	PKFH	29.4	-27	4.9	61.65	74	12.35	8	127	V
* 3.664	42.46	PKFH	31.8	-26.9	5.4	52.76	74	21.24	348	320	V
* 4.581	43.17	PKFH	32.2	-26.7	6	54.67	74	19.33	322	282	V
* 7.327	42.15	PKFH	36.7	-26.2	6.3	58.95	74	15.05	298	259	V
* 8.245	42.88	PKFH	37.1	-26.1	7.3	61.18	74	12.82	120	245	V
* 9.16	42.21	PKFH	37.6	-25.9	7.5	61.41	74	12.59	67	232	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	61.68	PKFH	27.3	-26.9	4.2	66.28	90.4	24.12	276	130	H
5.496	42.82	PKFH	34.4	-26.6	6.7	57.32	90.4	33.08	212	383	H
6.413	44.19	PKFH	34.8	-26.3	7.1	59.79	90.4	30.61	136	385	H
1.832	57.22	PKFH	27.3	-26.9	4.2	61.82	90.4	28.58	77	160	V
5.496	45.93	PKFH	34.4	-26.6	6.7	60.43	90.4	29.97	30	270	V
6.413	45.42	PKFH	34.8	-26.3	7.1	61.02	90.4	29.38	68	254	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	46.07	VA1T	29.4	-27	4.8	-12.6	40.67	54	13.33	346	131	H
* 3.664	36.3	VA1T	31.8	-26.9	5.4	-12.6	34	54	20	214	387	H
* 4.58	32.23	VA1T	32.2	-26.7	6	-12.6	31.13	54	22.87	199	362	H
* 7.328	31.46	VA1T	36.7	-26.2	6.4	-12.6	35.76	54	18.24	130	383	H
* 8.245	31.51	VA1T	37.1	-26.1	7.3	-12.6	37.21	54	16.79	158	396	H
* 9.159	29.31	VA1T	37.6	-25.9	7.5	-12.6	35.91	54	18.09	189	317	H
* 2.748	40.91	VA1T	29.4	-27	4.8	-12.6	35.51	54	18.49	8	127	V
* 3.664	32.29	VA1T	31.8	-26.9	5.4	-12.6	29.99	54	24.01	348	320	V
* 4.58	33.7	VA1T	32.2	-26.7	6	-12.6	32.6	54	21.4	322	282	V
* 7.328	31.67	VA1T	36.7	-26.2	6.4	-12.6	35.97	54	18.03	298	259	V
* 8.245	33.08	VA1T	37.1	-26.1	7.3	-12.6	38.78	54	15.22	120	245	V
* 9.161	30.94	VA1T	37.6	-25.9	7.5	-12.6	37.54	54	16.46	67	232	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 = $20 \cdot \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.572 msec
 Duty Cycle correction Factor = $20 \log(1.572 \cdot 8 / 100) = -18\text{dB}$

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	49.14	PK2	29.5	-27.1	4.8	56.34	74	17.66	348	239	H
* 3.706	44.3	PK2	32	-26.9	5.6	55	74	19	193	400	H
* 4.632	41.55	PK2	32.3	-26.6	6.1	53.35	74	20.65	192	350	H
* 7.411	41.86	PK2	36.8	-26.2	7.1	59.56	74	14.44	135	387	H
* 8.338	42.29	PK2	37.3	-26.1	7.6	61.09	74	12.91	154	372	H
* 2.779	45.62	PK2	29.5	-27.1	4.8	52.82	74	21.18	239	267	V
* 3.706	43.73	PK2	32	-26.9	5.6	54.43	74	19.57	45	304	V
* 4.632	43.04	PK2	32.3	-26.6	6.1	54.84	74	19.16	309	291	V
* 7.411	42.36	PK2	36.8	-26.2	7.1	60.06	74	13.94	304	251	V
* 8.338	45.1	PK2	37.3	-26.1	7.6	63.9	74	10.1	121	241	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	71.25	PK2	27.5	-26.9	4.2	76.05	91	14.95	340	238	H
5.558	42.91	PK2	34.4	-26.4	6.7	57.61	91	33.39	22	289	H
6.486	45.1	PK2	34.8	-26.4	7.2	60.7	91	30.3	132	394	H
9.265	41.99	PK2	37.8	-26	7.5	61.29	91	29.71	130	253	H
1.853	64.44	PK2	27.5	-26.9	4.2	69.24	91	21.76	239	267	V
5.558	44.62	PK2	34.4	-26.4	6.7	59.32	91	31.68	21	264	V
6.485	43.74	PK2	34.8	-26.4	7.2	59.34	91	31.66	79	239	V
9.266	41.61	PK2	37.8	-26	7.5	60.91	91	30.09	71	211	V

AVERAGE DATA

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	45.8	VA1T	29.5	-27.1	4.8	-12.6	40.4	54	13.6	348	239	H
* 3.706	35.93	VA1T	32	-26.9	5.6	-12.6	34.03	54	19.97	193	400	H
* 4.632	30.9	VA1T	32.4	-26.6	6.1	-12.6	30.2	54	23.8	192	350	H
* 7.412	31.23	VA1T	36.8	-26.2	7.1	-12.6	36.33	54	17.67	135	387	H
* 8.339	31.56	VA1T	37.3	-26.1	7.6	-12.6	37.76	54	16.24	154	372	H
* 2.779	40.77	VA1T	29.5	-27.1	4.8	-12.6	35.37	54	18.63	239	267	V
* 3.706	33.86	VA1T	32	-26.9	5.6	-12.6	31.96	54	22.04	45	304	V
* 4.632	33.25	VA1T	32.3	-26.6	6.1	-12.6	32.45	54	21.55	309	291	V
* 7.411	31.89	VA1T	36.8	-26.2	7.1	-12.6	36.99	54	17.01	304	251	V
* 8.339	36.14	VA1T	37.3	-26.1	7.6	-12.6	42.34	54	11.66	121	241	V
* 2.779	45.8	VA1T	29.5	-27.1	4.8	-12.6	40.4	54	13.6	348	239	H

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

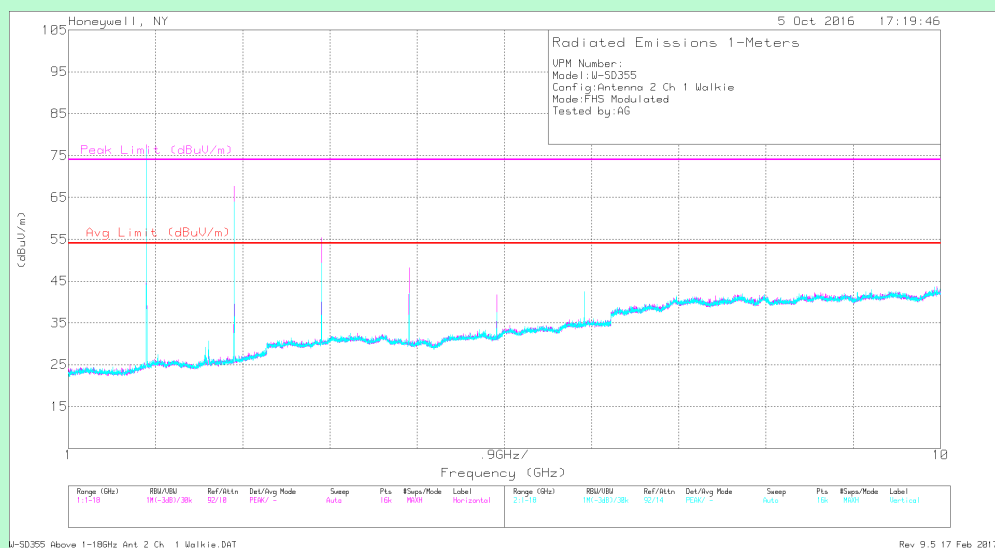
Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

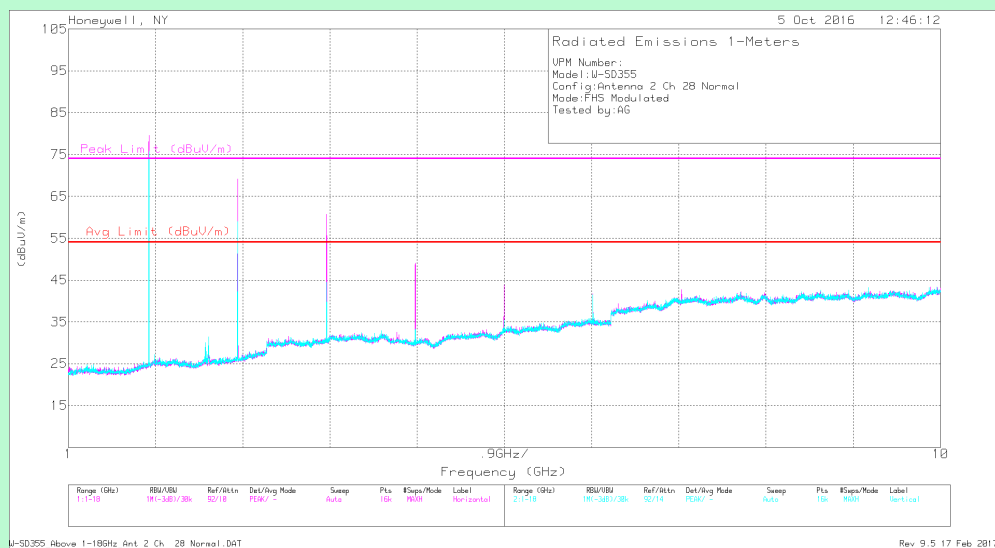
Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \times \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.572 msec
 Duty Cycle correction Factor = $20 \log(1.572 \times 8 / 100) = -18\text{dB}$

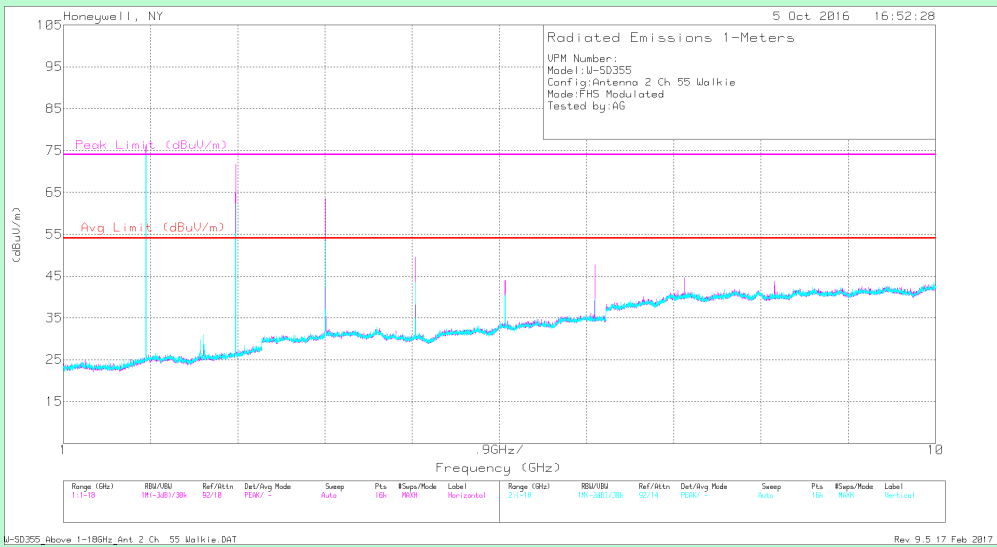
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 2)



Channel 1 (903.55 MHz) – Antenna 2



Channel 28 (916 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
* 2.711	52.67	PKFH	29.3	-27.1	5	59.87	74	14.13	264	203	H
* 3.614	47.4	PKFH	31.6	-26.8	5.4	57.6	74	16.4	336	254	H
* 4.518	43.2	PKFH	32.2	-26.6	6	54.8	74	19.2	228	348	H
* 5.421	43.81	PKFH	34.3	-26.7	6.4	57.81	74	16.19	313	265	H
* 8.132	42.59	PKFH	37.1	-26.2	7.5	60.99	74	13.01	162	333	H
* 9.035	41.45	PKFH	37.6	-25.9	7.3	60.45	74	13.55	65	311	H
* 2.711	52.45	PKFH	29.3	-27.1	5	59.65	74	14.35	294	126	V
* 3.615	48.04	PKFH	31.6	-26.8	5.4	58.24	74	15.76	213	116	V
* 4.518	43.49	PKFH	32.2	-26.6	6	55.09	74	18.91	278	106	V
* 5.421	45.87	PKFH	34.3	-26.7	6.4	59.87	74	14.13	78	270	V
* 8.133	43.96	PKFH	37.1	-26.2	7.5	62.36	74	11.64	142	387	V
* 9.035	41.48	PKFH	37.6	-25.9	7.3	60.48	74	13.52	9	225	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	70.38	PKFH	27.1	-26.9	4.2	74.78	92.1	17.32	339	135	H
6.325	44.8	PKFH	34.9	-26.4	7.1	60.4	92.1	31.7	150	392	H
7.228	42.96	PKFH	36.3	-26.2	6.8	59.86	92.1	32.24	141	393	H
1.807	62.47	PKFH	27.1	-26.9	4.2	66.87	92.1	25.23	289	239	V
6.325	46.14	PKFH	34.9	-26.4	7.1	61.74	92.1	30.36	70	245	V
7.229	44.45	PKFH	36.3	-26.2	6.8	61.35	92.1	30.75	279	391	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	50.58	VA1T	29.3	-27.1	5	-12.6	45.18	54	8.82	264	203	H
* 3.614	42.03	VA1T	31.6	-26.8	5.4	-12.6	39.63	54	14.37	336	254	H
* 4.518	33.78	VA1T	32.2	-26.6	6	-12.6	32.78	54	21.22	228	348	H
* 5.421	34.89	VA1T	34.3	-26.7	6.4	-12.6	36.29	54	17.71	313	265	H
* 8.133	31.66	VA1T	37.1	-26.2	7.5	-12.6	37.46	54	16.54	162	333	H
* 9.035	29.73	VA1T	37.6	-25.9	7.3	-12.6	36.13	54	7.87	65	311	H
* 2.711	50.06	VA1T	29.3	-27.1	5	-12.6	44.66	54	9.34	294	126	V
* 3.614	42.74	VA1T	31.6	-26.8	5.4	-12.6	40.34	54	13.66	213	116	V
* 4.518	33.88	VA1T	32.2	-26.6	6	-12.6	32.88	54	21.12	278	106	V
* 5.421	38.95	VA1T	34.3	-26.7	6.4	-12.6	40.35	54	13.65	78	270	V
* 8.133	33.59	VA1T	37.1	-26.2	7.5	-12.6	39.39	54	14.61	142	387	V
* 9.035	29.58	VA1T	37.6	-25.9	7.3	-12.6	35.98	54	18.02	9	225	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 = $20 \cdot \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.572 msec

Duty Cycle correction Factor = $20 \log(1.572 \cdot 8 / 100) = -18\text{dB}$

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	56.34	PKFH	29.4	-27	4.8	63.54	74	10.46	257	192	H
* 3.664	46.58	PKFH	31.8	-26.9	5.4	56.88	74	17.12	186	130	H
* 4.58	43.77	PKFH	32.2	-26.7	6	55.27	74	18.73	189	373	H
* 7.326	39.74	PKFH	36.4	-26.2	6.8	56.74	74	17.26	6	183	H
* 8.245	41.83	PKFH	37.1	-26.1	7.3	60.13	74	13.87	23	234	H
* 9.16	41.65	PKFH	37.6	-25.9	7.5	60.85	74	13.15	38	262	H
* 2.748	53.13	PKFH	29.4	-27	4.8	60.33	74	13.67	243	323	V
* 3.663	42.9	PKFH	31.8	-26.9	5.4	53.2	74	20.8	354	178	V
* 4.579	44.3	PKFH	32.2	-26.7	6	55.8	74	18.2	77	295	V
* 7.329	40.57	PKFH	36.7	-26.2	6.4	57.47	74	16.53	297	241	V
* 8.245	43.5	PKFH	37.1	-26.1	7.3	61.8	74	12.2	116	244	V
* 9.161	41.67	PKFH	37.6	-25.9	7.5	60.87	74	13.13	71	241	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	69.65	PKFH	27.3	-26.9	4.2	74.25	91.2	16.95	315	129	H
5.497	41.5	PKFH	34.4	-26.6	6.7	56	91.2	35.2	352	255	H
6.412	43.26	PKFH	34.8	-26.3	7.1	58.86	91.2	32.34	344	264	H
1.832	58.35	PKFH	27.3	-26.9	4.2	62.95	91.2	28.25	25	248	V
5.497	44.86	PKFH	34.4	-26.6	6.7	59.36	91.2	31.84	29	260	V
6.412	43.88	PKFH	34.8	-26.3	7.1	59.48	91.2	31.72	69	254	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	54.63	VA1T	29.4	-27	4.8	-12.6	49.23	54	4.77	257	192	H
* 3.664	40.63	VA1T	31.8	-26.9	5.4	-12.6	38.33	54	15.67	186	130	H
* 4.58	34.32	VA1T	32.2	-26.7	6	-12.6	33.22	54	20.78	189	373	H
* 7.329	27.59	VA1T	36.4	-26.2	6.8	-12.6	31.99	54	22.01	6	183	H
* 8.245	30.78	VA1T	37.1	-26.1	7.3	-12.6	36.48	54	17.52	23	234	H
* 9.16	28.84	VA1T	37.6	-25.9	7.5	-12.6	35.44	54	18.56	38	262	H
* 2.748	50.94	VA1T	29.4	-27	4.8	-12.6	45.54	54	8.46	243	323	V
* 3.664	33.51	VA1T	31.8	-26.9	5.4	-12.6	31.21	54	22.79	354	178	V
* 4.58	37.13	VA1T	32.2	-26.7	6	-12.6	36.03	54	17.97	77	295	V
* 7.329	28.99	VA1T	36.7	-26.2	6.4	-12.6	33.29	54	20.71	297	241	V
* 8.245	33.34	VA1T	37.1	-26.1	7.3	-12.6	39.04	54	14.96	116	244	V
* 9.161	29.3	VA1T	37.6	-25.9	7.5	-12.6	35.9	54	18.1	71	241	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: 1.572 msec

Duty Cycle correction Factor = $20 \log(1.572 \times 8 / 100) = -18\text{dB}$

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	53.53	PKFH	29.5	-27.1	4.8	60.73	74	13.27	268	136	H
* 3.706	46.16	PKFH	32	-26.9	5.6	56.86	74	17.14	203	375	H
* 4.633	44.68	PKFH	32.4	-26.6	6.1	56.58	74	17.42	208	370	H
* 7.414	41.42	PKFH	36.8	-26.2	7.1	59.12	74	14.88	136	372	H
* 8.338	42.13	PKFH	37.3	-26.1	7.6	60.93	74	13.07	159	382	H
* 2.78	51.88	PKFH	29.5	-27.1	4.8	59.08	74	14.92	90	388	V
* 3.706	46.52	PKFH	32	-26.9	5.6	57.22	74	16.78	66	360	V
* 4.632	42.87	PKFH	32.3	-26.6	6.1	54.67	74	19.33	360	281	V
* 7.411	41.41	PKFH	36.8	-26.2	7.1	59.11	74	14.89	309	393	V
* 8.337	43.61	PKFH	37.3	-26.1	7.6	62.41	74	11.59	114	237	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	70.08	PKFH	27.5	-26.9	4.2	74.88	90.1	15.22	323	127	H
5.559	41.34	PKFH	34.4	-26.4	6.7	56.04	90.1	34.06	156	369	H
6.486	42.91	PKFH	34.8	-26.4	7.2	58.51	90.1	31.59	146	372	H
9.263	41.01	PKFH	37.8	-26	7.5	60.31	90.1	29.79	321	297	H
1.853	63.88	PKFH	27.5	-26.9	4.2	68.68	90.1	21.42	271	384	V
5.559	43.74	PKFH	34.4	-26.4	6.7	58.44	90.1	31.66	97	278	V
6.485	44.56	PKFH	34.8	-26.4	7.2	60.16	90.1	29.94	62	268	V
9.264	41.48	PKFH	37.8	-26	7.5	60.78	90.1	29.32	360	221	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	51.58	VA1T	29.5	-27.1	4.8	-12.6	46.18	54	7.82	268	136	H
* 3.706	40.19	VA1T	32	-26.9	5.6	-12.6	38.29	54	15.71	203	375	H
* 4.632	37.55	VA1T	32.4	-26.6	6.1	-12.6	36.85	54	17.15	208	370	H
* 7.411	28.88	VA1T	36.8	-26.2	7.1	-12.6	33.98	54	20.02	136	372	H
* 8.339	30.62	VA1T	37.3	-26.1	7.6	-12.6	36.82	54	17.18	159	382	H
* 2.779	49.31	VA1T	29.5	-27.1	4.8	-12.6	43.91	54	10.09	90	388	V
* 3.706	40.18	VA1T	32	-26.9	5.6	-12.6	38.28	54	15.72	66	360	V
* 4.632	33.19	VA1T	32.4	-26.6	6.1	-12.6	32.49	54	21.51	360	281	V
* 7.412	30.27	VA1T	36.8	-26.2	7.1	-12.6	35.37	54	18.63	309	393	V
* 8.339	33.47	VA1T	37.3	-26.1	7.6	-12.6	39.67	54	14.33	114	237	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

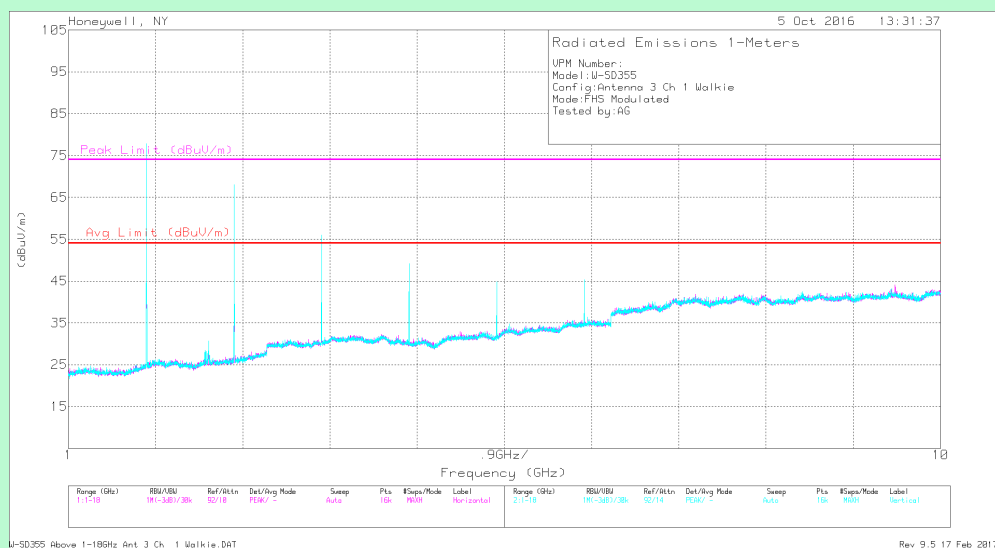
Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Preamplifier Gain (dB)

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

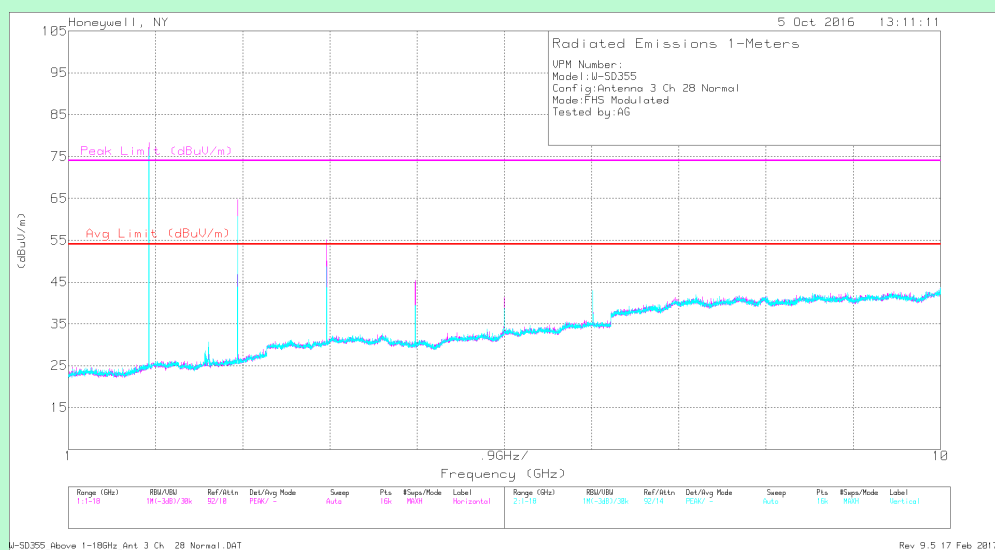
Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00 -705

Duty Cycle Factor = $20 \times \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.572 msec
 Duty Cycle correction Factor = $20 \log(1.572 \times 8 / 100) = -18\text{dB}$

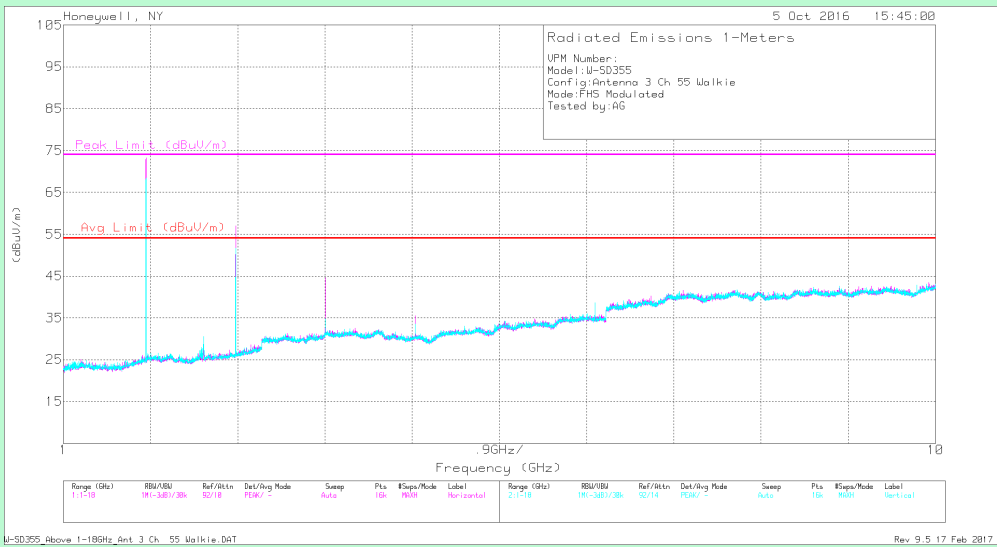
TEST GRAPHS –1 GHz to 10 GHz (ANTENNA 3)



Channel 1 (903.55 MHz) – Antenna 3



Channel 28 (916 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
* 2.712	40.06	PKFH	29.3	-27.1	5	47.26	74	26.74	252	245	H
* 3.614	41.68	PKFH	31.6	-26.8	5.4	51.88	74	22.12	341	161	H
* 4.517	41.09	PKFH	32.2	-26.6	6	52.69	74	21.31	317	306	H
* 5.42	40.64	PKFH	34.3	-26.7	6.4	54.64	74	19.36	317	306	H
* 8.133	40.98	PKFH	37.1	-26.2	7.5	59.38	74	14.62	212	151	H
* 9.035	42.25	PKFH	37.6	-25.9	7.3	61.25	74	12.75	268	151	H
* 2.711	59.27	PKFH	29.3	-27.1	5	66.47	74	7.53	333	363	V
* 3.614	50.41	PKFH	31.6	-26.8	5.4	60.61	74	13.39	128	330	V
* 4.518	46.9	PKFH	32.2	-26.6	6	58.5	74	15.5	324	289	V
* 5.421	46.76	PKFH	34.3	-26.7	6.4	60.76	74	13.24	31	266	V
* 8.132	43.88	PKFH	37.1	-26.2	7.5	62.28	74	11.72	119	392	V
* 9.035	42.16	PKFH	37.6	-25.9	7.3	61.16	74	12.84	128	222	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	43.08	PKFH	27.1	-26.9	4.2	47.48	88.4	40.92	123	214	H
6.325	39.7	PKFH	34.9	-26.4	7.1	55.3	88.4	33.1	158	125	H
7.228	41.22	PKFH	36.3	-26.2	6.8	58.12	88.4	30.28	309	184	H
1.807	77.16	PKFH	27.1	-26.9	4.2	81.56	88.4	6.84	239	291	V
6.324	46.94	PKFH	34.9	-26.4	7.1	62.54	88.4	25.86	69	242	V
7.228	44.91	PKFH	36.3	-26.2	6.8	61.81	88.4	26.59	264	399	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	28.06	VA1T	29.3	-27.1	5	-12.6	22.66	54	31.34	252	245	H
* 3.613	29.25	VA1T	31.6	-26.8	5.4	-12.6	26.85	54	27.15	341	161	H
* 4.518	28.6	VA1T	32.2	-26.6	6	-12.6	27.6	54	26.4	317	306	H
* 5.42	28.24	VA1T	34.3	-26.7	6.4	-12.6	29.64	54	24.36	317	306	H
* 8.131	28.35	VA1T	37.1	-26.2	7.5	-12.6	34.15	54	19.85	212	151	H
* 9.037	28.91	VA1T	37.6	-25.9	7.3	-12.6	35.31	54	18.69	268	151	H
* 2.711	57.93	VA1T	29.3	-27.1	5	-12.6	52.53	54	1.47	333	363	V
* 3.614	46.67	VA1T	31.6	-26.8	5.4	-12.6	44.27	54	9.73	128	330	V
* 4.518	41.23	VA1T	32.2	-26.6	6	-12.6	40.23	54	13.77	324	289	V
* 5.421	40.99	VA1T	34.3	-26.7	6.4	-12.6	42.39	54	11.61	31	266	V
* 8.133	34.9	VA1T	37.1	-26.2	7.5	-12.6	40.7	54	13.3	119	392	V
* 9.036	30.46	VA1T	37.6	-25.9	7.3	-12.6	36.86	54	17.14	128	222	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 = $20 \cdot \log(\text{Dwell time} / 100\text{msec})$, Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.572 msec
 Duty Cycle correction Factor = $20 \log(1.572 \cdot 8 / 100) = -18\text{dB}$

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	58.24	PKFH	29.4	-27	4.8	65.44	74	8.56	96	176	H
* 3.664	48.75	PKFH	31.8	-26.9	5.4	59.05	74	14.95	73	192	H
* 4.581	47.01	PKFH	32.2	-26.7	6	58.51	74	15.49	74	220	H
* 7.329	41.39	PKFH	36.7	-26.2	6.4	58.29	74	15.71	329	375	H
* 8.243	42.01	PKFH	37.1	-26.1	7.3	60.31	74	13.69	356	245	H
* 9.162	41.14	PKFH	37.6	-25.9	7.5	60.34	74	13.66	93	150	H
* 2.748	56.48	PKFH	29.4	-27	4.8	63.68	74	10.32	277	358	V
* 3.664	48.69	PKFH	31.8	-26.9	5.4	58.99	74	15.01	312	333	V
* 4.581	47.68	PKFH	32.2	-26.7	6	59.18	74	14.82	302	289	V
* 7.328	42.2	PKFH	36.7	-26.2	6.3	59	74	15	117	332	V
* 8.243	43.77	PKFH	37.1	-26.1	7.3	62.07	74	11.93	109	252	V
* 9.16	41.37	PKFH	37.6	-25.9	7.5	60.57	74	13.43	56	241	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	76.55	PKFH	27.3	-26.9	4.2	81.15	89.5	8.35	26	179	H
5.496	43.25	PKFH	34.4	-26.6	6.7	57.75	89.5	31.75	151	277	H
6.412	44.36	PKFH	34.8	-26.3	7.1	59.96	89.5	29.54	341	392	H
1.832	73.59	PKFH	27.3	-26.9	4.2	78.19	89.5	11.31	11	109	V
5.496	45.75	PKFH	34.4	-26.6	6.7	60.25	89.5	29.25	22	269	V
6.413	46.65	PKFH	34.8	-26.3	7.1	62.25	89.5	27.25	54	255	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	56.79	VA1T	29.4	-27	4.8	-12.6	51.39	54	2.61	96	176	H
* 3.664	44.31	VA1T	31.8	-26.9	5.4	-12.6	42.01	54	11.99	73	192	H
* 4.58	41.33	VA1T	32.2	-26.7	6	-12.6	40.23	54	13.77	74	220	H
* 7.328	29.42	VA1T	36.7	-26.2	6.3	-12.6	33.62	54	20.38	329	375	H
* 8.245	30.61	VA1T	37.1	-26.1	7.3	-12.6	36.31	54	17.69	356	245	H
* 9.16	28.75	VA1T	37.6	-25.9	7.5	-12.6	35.35	54	18.65	93	150	H
* 2.748	54.86	VA1T	29.4	-27	4.8	-12.6	49.46	54	4.54	277	358	V
* 3.664	44.11	VA1T	31.8	-26.9	5.4	-12.6	41.81	54	12.19	312	333	V
* 4.58	42.4	VA1T	32.2	-26.7	6	-12.6	41.3	54	12.7	302	289	V
* 7.328	32.03	VA1T	36.7	-26.2	6.4	-12.6	36.33	54	17.67	117	332	V
* 8.245	33.95	VA1T	37.1	-26.1	7.3	-12.6	39.65	54	14.35	109	252	V
* 9.161	29.48	VA1T	37.6	-25.9	7.5	-12.6	36.08	54	17.92	56	241	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: 1.572 msec

Duty Cycle correction Factor = $20 \log(1.572 \times 8/100) = -18\text{dB}$

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
* 2.78	59.68	PKFH	29.5	-27.1	4.8	66.88	74	7.12	112	123	H
* 3.706	45.56	PKFH	32	-26.9	5.6	56.26	74	17.74	84	220	H
* 4.632	46.91	PKFH	32.4	-26.6	6.1	58.81	74	15.19	108	338	H
* 7.411	41.67	PKFH	36.8	-26.2	7.1	59.37	74	14.63	89	377	H
* 8.338	42.99	PKFH	37.3	-26.1	7.6	61.79	74	12.21	13	250	H
* 2.78	54.26	PKFH	29.5	-27.1	4.8	61.46	74	12.54	301	349	V
* 3.706	46.97	PKFH	32	-26.9	5.6	57.67	74	16.33	115	365	V
* 4.633	46.25	PKFH	32.4	-26.6	6.1	58.15	74	15.85	185	317	V
* 7.413	40.06	PKFH	36.8	-26.2	7.1	57.76	74	16.24	37	258	V
* 8.339	44.35	PKFH	37.3	-26.1	7.6	63.15	74	10.85	103	235	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	77.49	PKFH	27.5	-26.9	4.2	82.29	89.3	7.01	335	126	H
5.56	41.97	PKFH	34.4	-26.4	6.7	56.67	89.3	32.63	166	375	H
6.485	44.67	PKFH	34.8	-26.4	7.2	60.27	89.3	29.03	82	379	H
9.264	41.9	PKFH	37.8	-26	7.5	61.2	89.3	28.1	234	310	H
1.853	79.15	PKFH	27.5	-26.9	4.2	83.95	89.3	5.35	45	106	V
5.559	45.67	PKFH	34.4	-26.4	6.7	60.37	89.3	28.93	80	281	V
6.486	45.76	PKFH	34.8	-26.4	7.2	61.36	89.3	27.94	37	258	V
9.264	41.24	PKFH	37.8	-26	7.5	60.54	89.3	28.76	334	154	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	58.39	VA1T	29.5	-27.1	4.8	-12.6	52.99	54	1.01	112	123	H
* 3.706	38.06	VA1T	32	-26.9	5.6	-12.6	36.16	54	17.84	84	220	H
* 4.632	41.51	VA1T	32.4	-26.6	6.1	-12.6	40.81	54	13.19	108	338	H
* 7.412	30.46	VA1T	36.8	-26.2	7.1	-12.6	35.56	54	18.44	89	377	H
* 8.339	32.74	VA1T	37.3	-26.1	7.6	-12.6	38.94	54	15.06	13	250	H
* 2.779	52.32	VA1T	29.5	-27.1	4.8	-12.6	46.92	54	7.08	301	349	V
* 3.706	41.16	VA1T	32	-26.9	5.6	-12.6	39.26	54	14.74	115	365	V
* 4.632	40.44	VA1T	32.4	-26.6	6.1	-12.6	39.74	54	14.26	185	317	V
* 7.412	28.34	VA1T	36.8	-26.2	7.1	-12.6	33.44	54	20.56	37	258	V
* 8.339	34.75	VA1T	37.3	-26.1	7.6	-12.6	40.95	54	13.05	103	235	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: 1.572 msec

Duty Cycle correction Factor = $20 \log(1.572 \times 8/100) = -18\text{dB}$

6.3 Effective Isotropic Radiated Power

EUT Nomenclature	Wireless Photo Detector	Test Request No.	20295-1
Model No.	FWD-200P	Serial No.	MEL-147
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		
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)	MT50140667	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	104.26	12.8	13.6
1	903.55	V	95.93	5.2	6
1	916	H	105.01	14.2	15
1	916	V	95.95	5.7	6.5
1	926.45	H	105.51	16.1	16.9
1	926.45	V	97.32	8.6	9.4
2	903.55	H	107.22	15.8	16.6
2	903.55	V	100.51	9.8	10.6
2	916	H	105.76	15	15.8
2	916	V	99.18	8.9	9.7
2	926.45	H	104.56	15.1	15.9
2	926.45	V	98.29	9.55	10.35
3	903.55	H	103.5	12.1	12.9
3	903.55	V	95.8	5.1	5.9
3	916	H	104.114	13.3	14.1
3	916	V	95.52	5.25	6.05
3	926.45	H	103.76	14.3	15.1
3	926.45	V	96.15	7.4	8.2

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

7 DTS CHANNELS

7.1 MAXIMUM PEAK CONDUCTED OUTPUT POWER

EUT Nomenclature	Wireless Photo Detector	Test Request No.	20295-1
Model No.	FWD-200P	Serial No.	MEL-147
Test Start Date	2016-08-03	Temperature (°C)	22.3°C
Test End Date	2016-08-05	Humidity RH (%)	50%
Tested By	Arnoldo Garcia	Pressure (mbar)	NR
Input Voltage / Freq.	3.3Vdc		
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

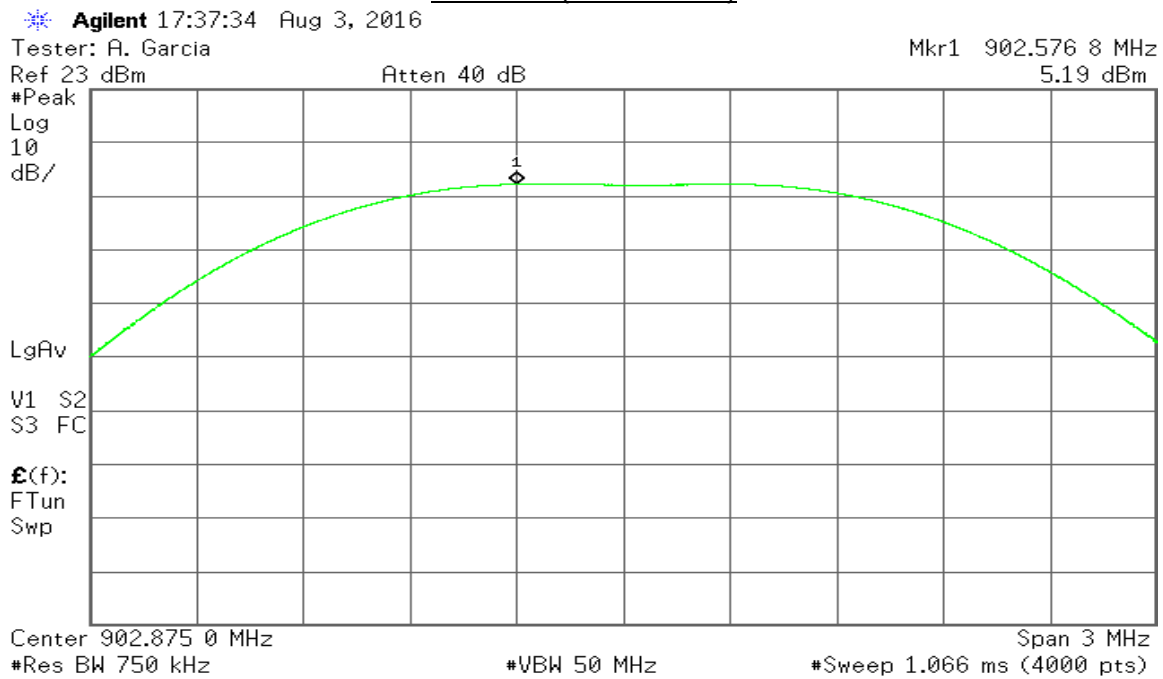
Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

TEST EQUIPMENT

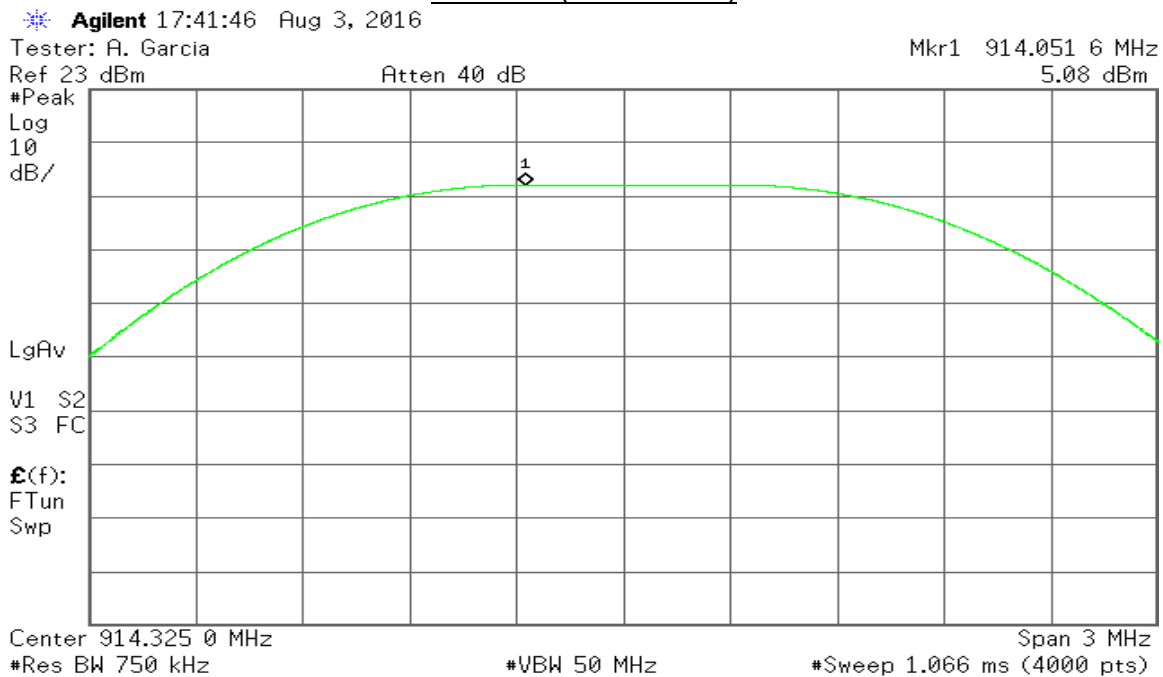
Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Keysight	PSA E4440	192484	2017-05-18
Y	RF Cable	Digikey	1	NA	NA

Antenna 1 Test Graphs

Channel 1 (902.875 MHz)



Channel 3 (914.325 MHz)



Channel 6 (927.125 MHz)

Agilent 17:45:37 Aug 3, 2016

Tester: A. Garcia

Ref 23 dBm

Atten 40 dB

Mkr1 926.839 6 MHz

4.99 dBm

#Peak
Log
10
dB/

LgAv

V1 S2
S3 FC£(f):
FTun
Swp

Center 927.125 0 MHz

#Res BW 750 kHz

#VBW 50 MHz

Span 3 MHz
#Sweep 1.066 ms (4000 pts)

Antenna 2 Test Graphs

Channel 1 (902.875 MHz)

Agilent 17:11:34 Aug 5, 2016

Tester: A. Garcia

Ref 23 dBm

Atten 40 dB

L

Mkr1 902.595 75 MHz

4.93 dBm

#Peak
Log
10
dB/

LgAv

V1 S2
S3 FC£(f):
FTun
Swp

Center 902.875 50 MHz

#Res BW 750 kHz

#VBW 50 MHz

Span 3 MHz
#Sweep 1.067 ms (4001 pts)

Channel 3 (914.325 MHz)

* Agilent 17:15:47 Aug 5, 2016

Tester: A. Garcia

Ref 23 dBm

Atten 40 dB

L

Mkr1 914.042 25 MHz

4.77 dBm

#Peak

Log

10

dB/

LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Center 914.325 00 MHz

#VBW 50 MHz

#Sweep 1.067 ms (4001 pts)

Span 3 MHz

#Res BW 750 kHz

Channel 6 (927.125 MHz)

* Agilent 17:18:31 Aug 5, 2016

Tester: A. Garcia

Ref 23 dBm

Atten 40 dB

L

Mkr1 926.837 75 MHz

4.65 dBm

#Peak

Log

10

dB/

LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Center 927.125 00 MHz

#VBW 50 MHz

#Sweep 1.067 ms (4001 pts)

Span 3 MHz

#Res BW 750 kHz

Antenna 3 Test Graphs

Channel 1 (902.875 MHz)

Agilent 14:44:58 Aug 5, 2016

L

Tester: R. Garcia

Mkr1 902.593 00 MHz

Ref 23 dBm

Atten 40 dB

5.51 dBm

#Peak

Log

10

dB/

LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Center 902.875 00 MHz

Span 3 MHz

#Res BW 750 kHz

#VBW 50 MHz

#Sweep 1.067 ms (4001 pts)

Channel 3 (914.325 MHz)

Agilent 14:48:49 Aug 5, 2016

L

Tester: R. Garcia

Mkr1 914.028 00 MHz

Ref 23 dBm

Atten 40 dB

5.43 dBm

#Peak

Log

10

dB/

LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

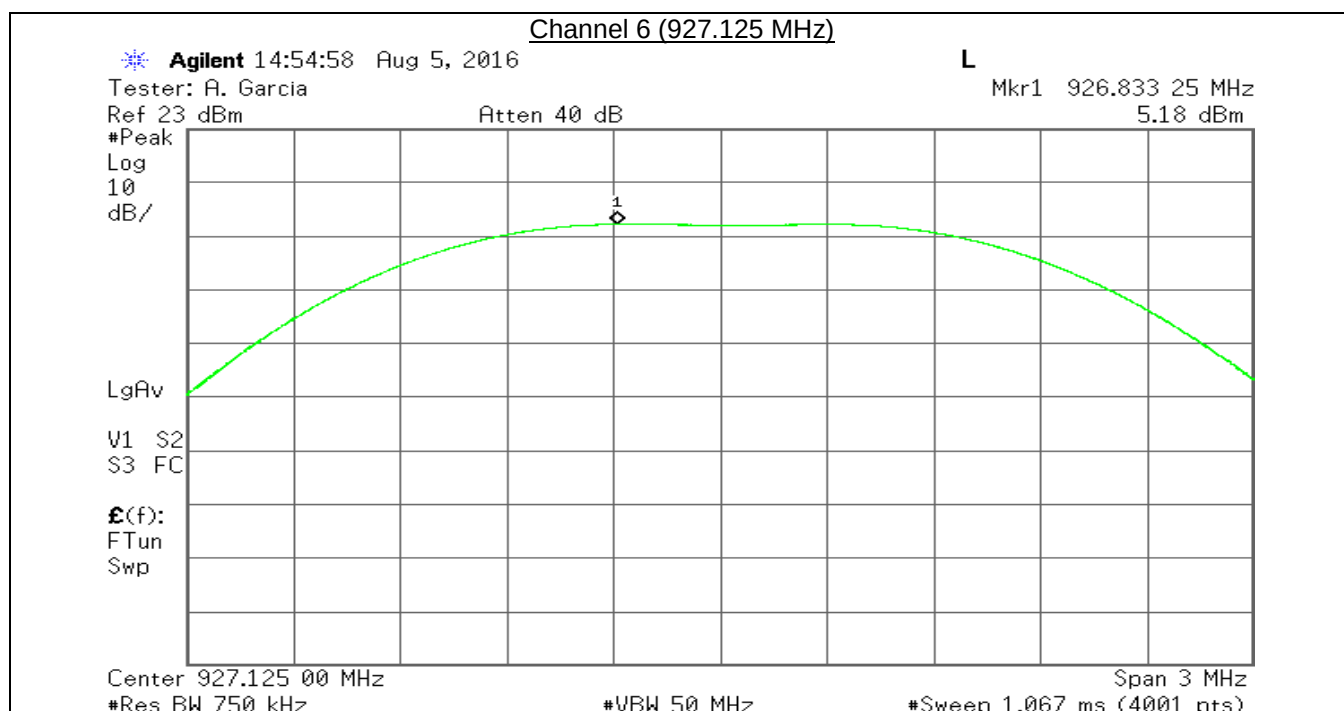
Center 914.325 00 MHz

Span 3 MHz

#Res BW 750 kHz

#VBW 50 MHz

#Sweep 1.067 ms (4001 pts)



TEST RESULT							
Antenna	Channel	Frequency	Measured Level	Cable Loss + Attenuator	Measured Level	Limit	Result
#	#	MHz	dBm	dB	dBm	dBm	
1	1	902.875	5.19	6.5	11.69	≤30	Pass
	3	914.325	5.08	6.5	11.58	≤30	Pass
	6	927.125	4.99	6.5	11.49	≤30	Pass
2	1	902.875	4.93	6.5	11.43	≤30	Pass
	3	914.325	4.77	6.5	11.27	≤30	Pass
	6	927.125	4.65	6.5	11.15	≤30	Pass
3	1	902.875	5.51	6.5	12.01	≤30	Pass
	3	914.325	5.43	6.5	11.93	≤30	Pass
	6	927.125	5.18	6.5	11.68	≤30	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test Setup

7.2 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Photo Detector	Test Request No.	20295-1
Model No.	FWD-200P	Serial No.	MEL-147
Test Start Date	2016-09-29	Temperature (°C)	-10 to 35 °C
Test End Date	2017-03-28	Humidity RH (%)	35 to 90 %RH
Tested By	Arnoldo Garcia/Jose Badia/Chris Locke	Pressure (mbar)	NR
Input Voltage / Freq.	3.5 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

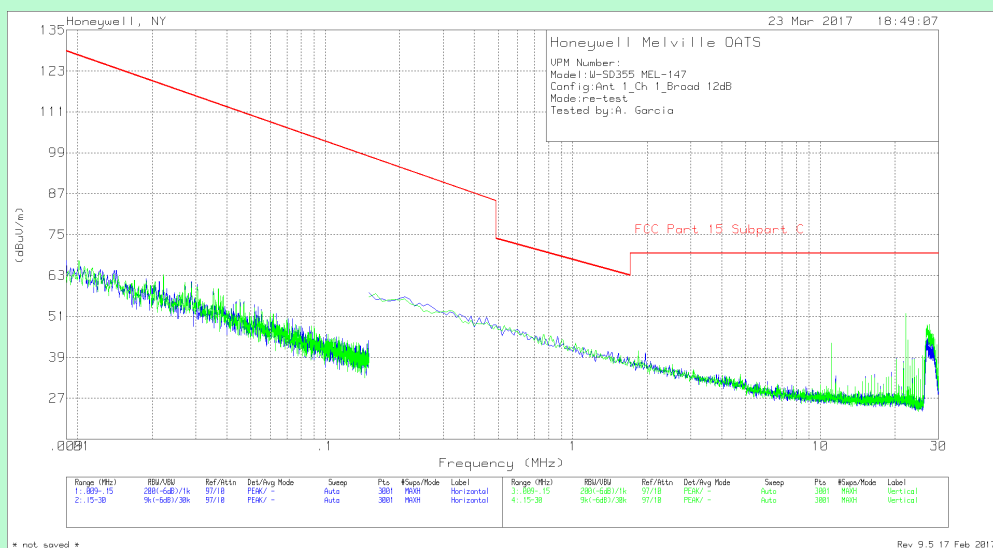
Antenna Height	1m to 4m	Turntable Rotation	0° to 360°
Equipment Class	NA	Measurement Distance	3m

TEST EQUIPMENT

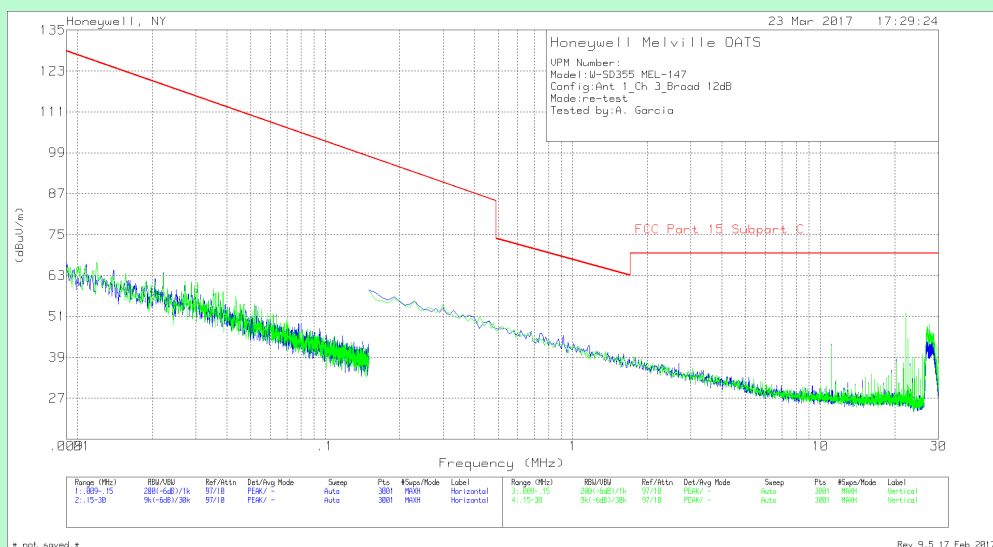
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Rohde & Schwarz	FSW26	103125	2018-02-14
Y	Spectrum Analyzer	Rohde & Schwarz	FSU26	100303	2017-03-31
Y	Bilog Antenna	Sunol	JB6	A012816	2018-03-09
Y	Bilog Antenna	Sunol	JB5	A022406	2017-12-18
Y	Horn Antenna	EMCO	RGA-60	3127	2017-02-03
Y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

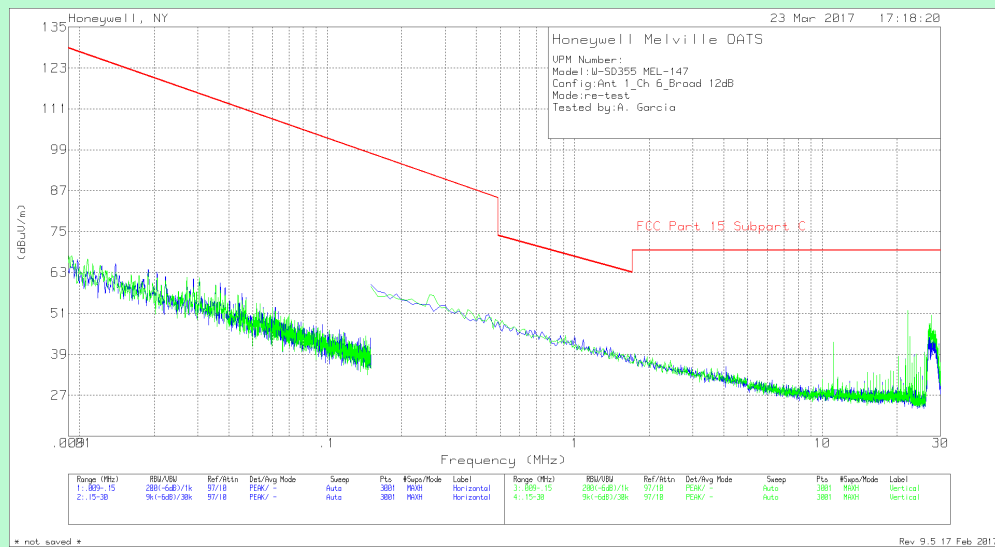
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 1)



Channel 1 (902.875 MHz) – Antenna 1



Channel 3 (914.325 MHz) – Antenna 1

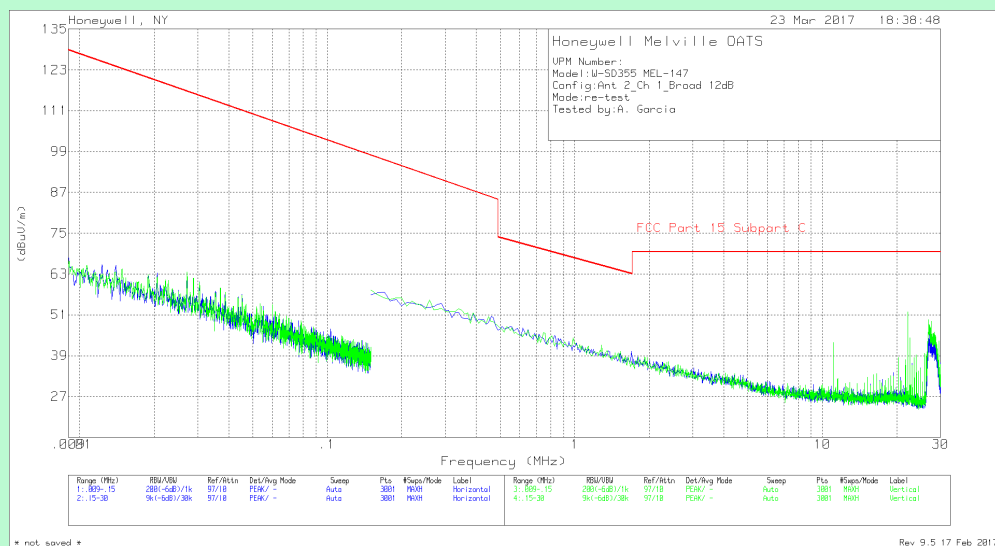


Channel 6 (927.125 MHz) – Antenna 1

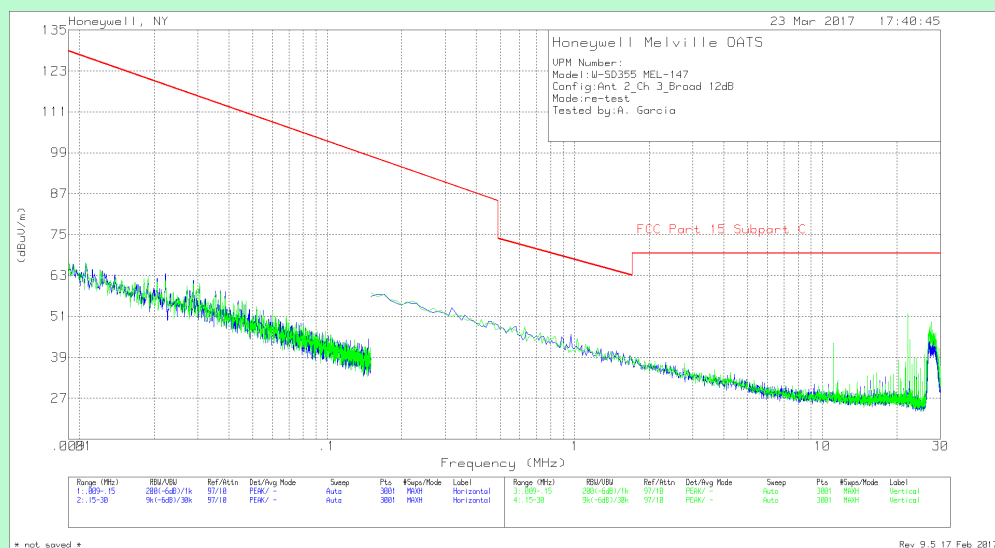
TEST RESULT – 9 KHz to 30 MHz

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)									

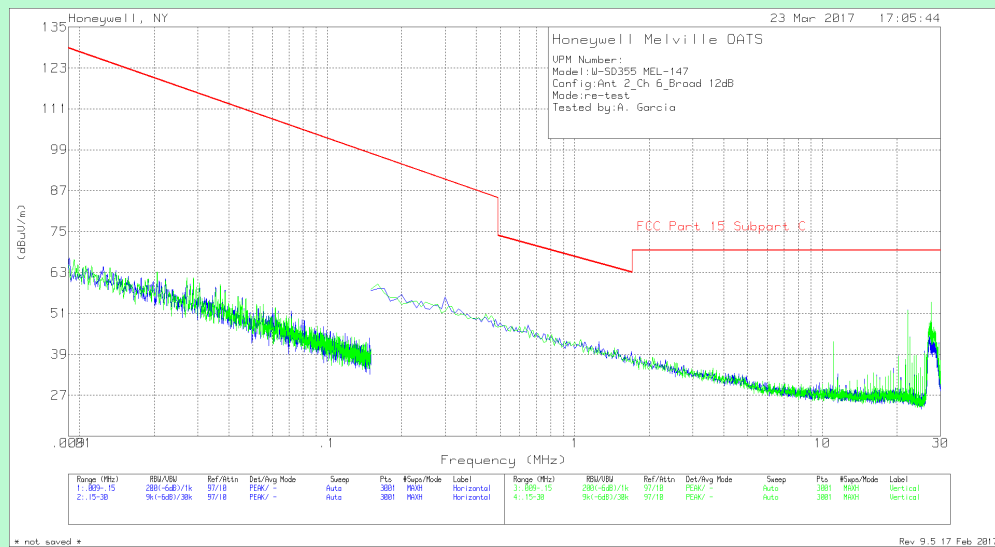
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 2)



Channel 1 (902.875 MHz) – Antenna 2



Channel 3 (914.325 MHz) – Antenna 2

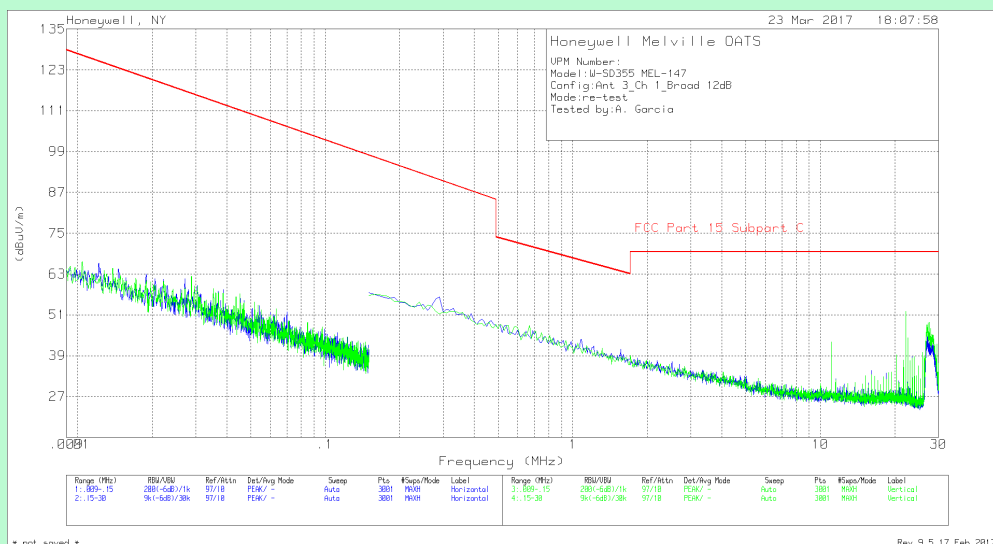


Channel 6 (927.125 MHz) – Antenna 2

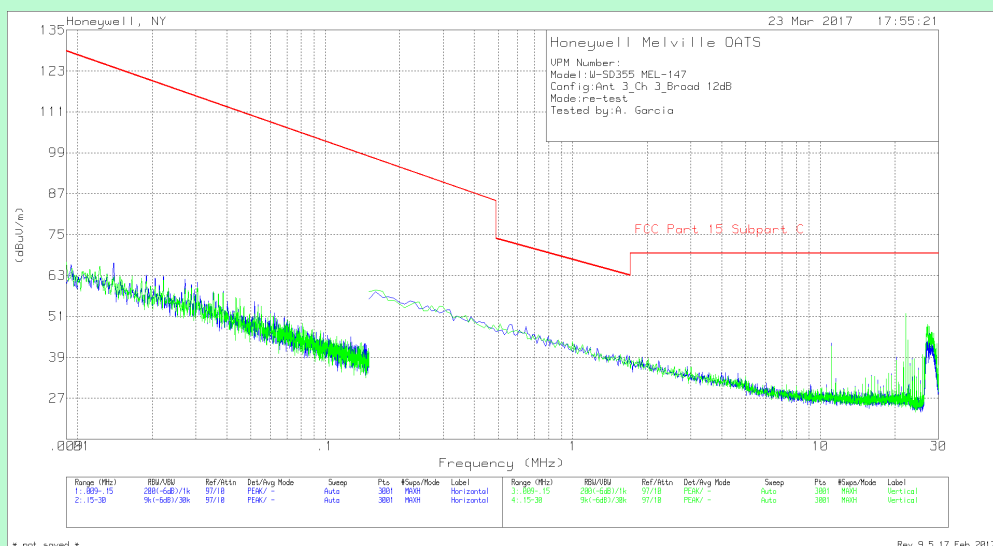
TEST RESULT – 9 KHz to 30 MHz

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)									

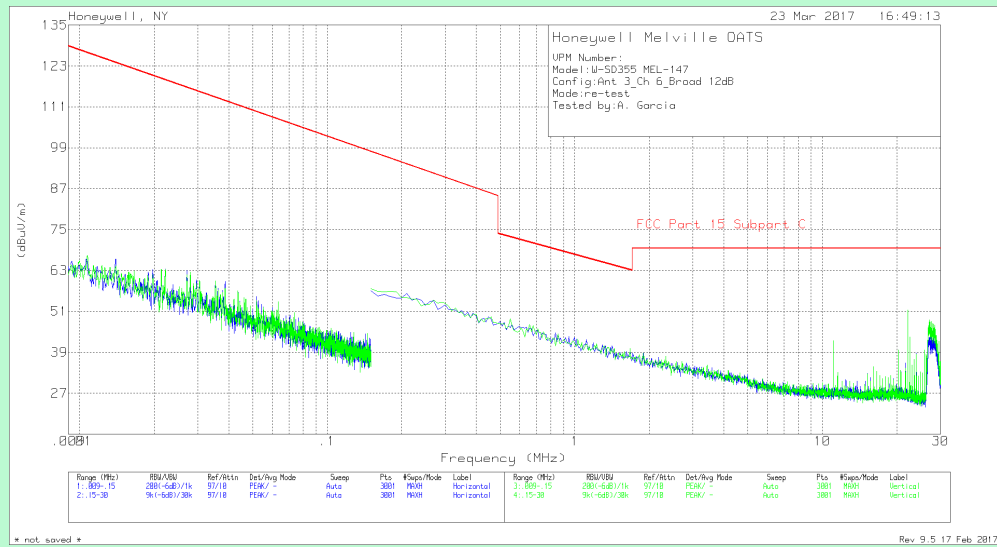
TEST GRAPHS – 9 KHz to 30 MHz (ANTENNA 3)



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)									