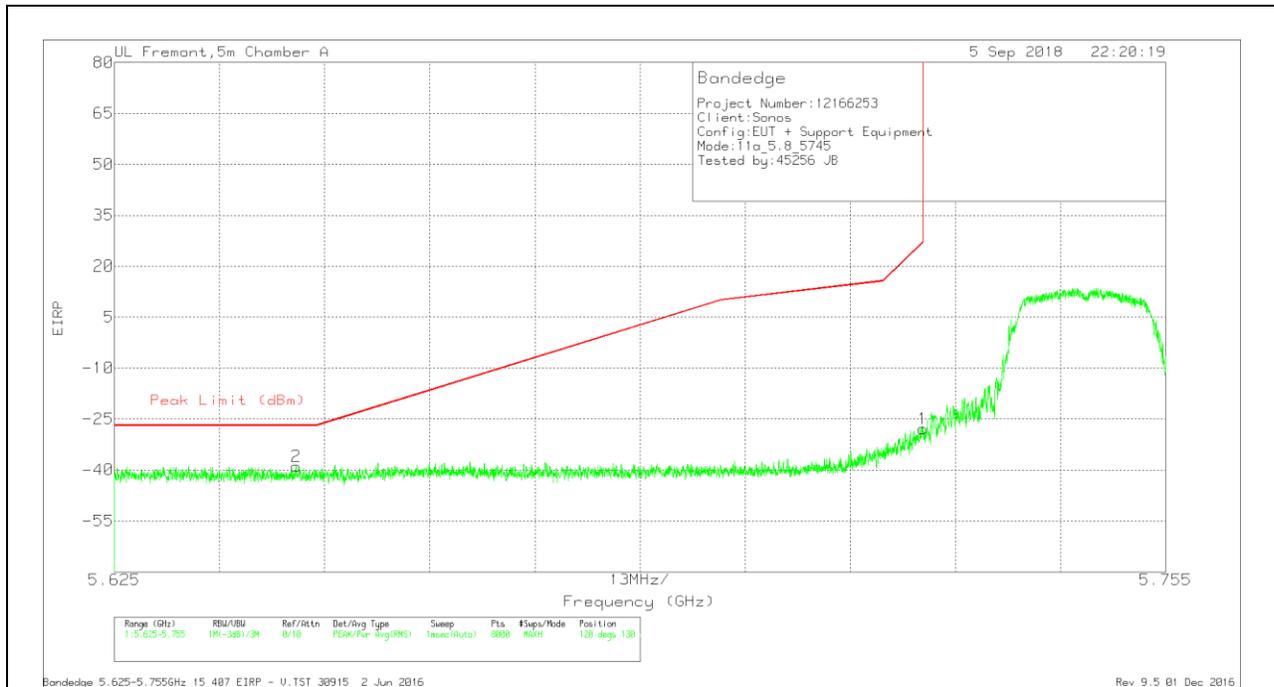


### VERTICAL RESULT

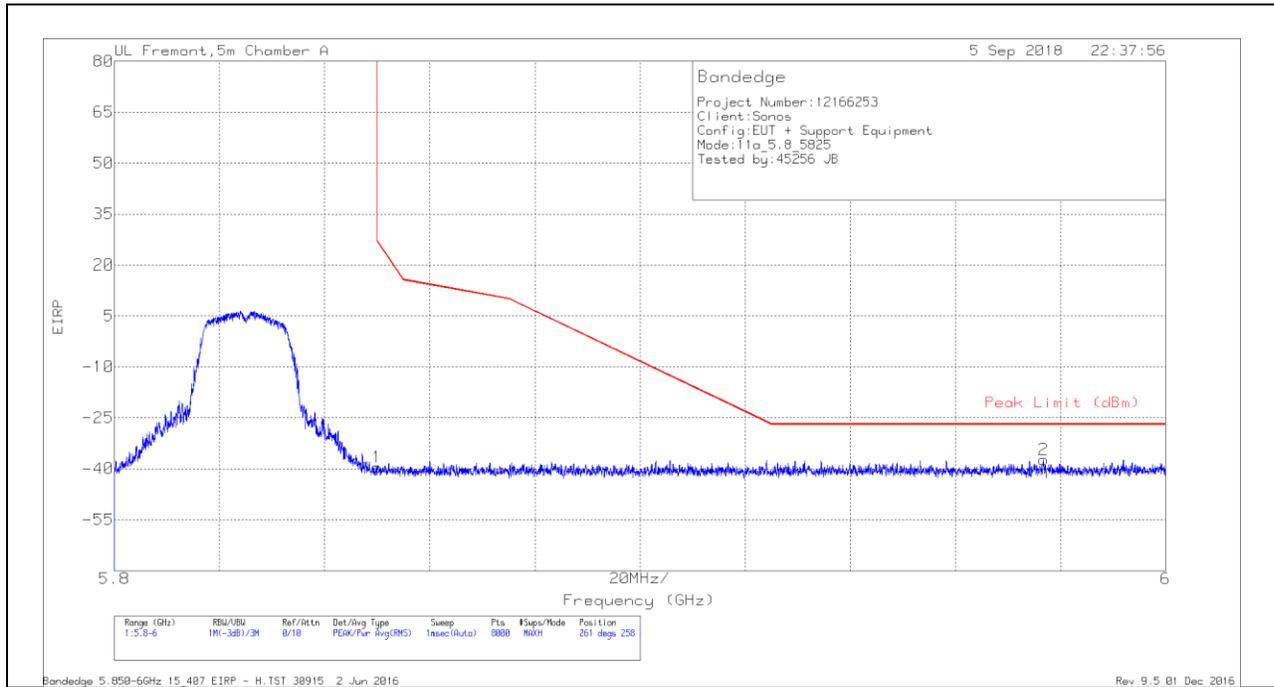


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cb/Filtr/ Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-67.91	Pk	35.1	-18	11.8	0	-39.01	-27	-12.01	120	130	V
1	5.725	-56.86	Pk	35	-17.9	11.8	0	-27.96	27	-54.96	120	130	V

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

### BANDEDGE (HIGH CHANNEL)

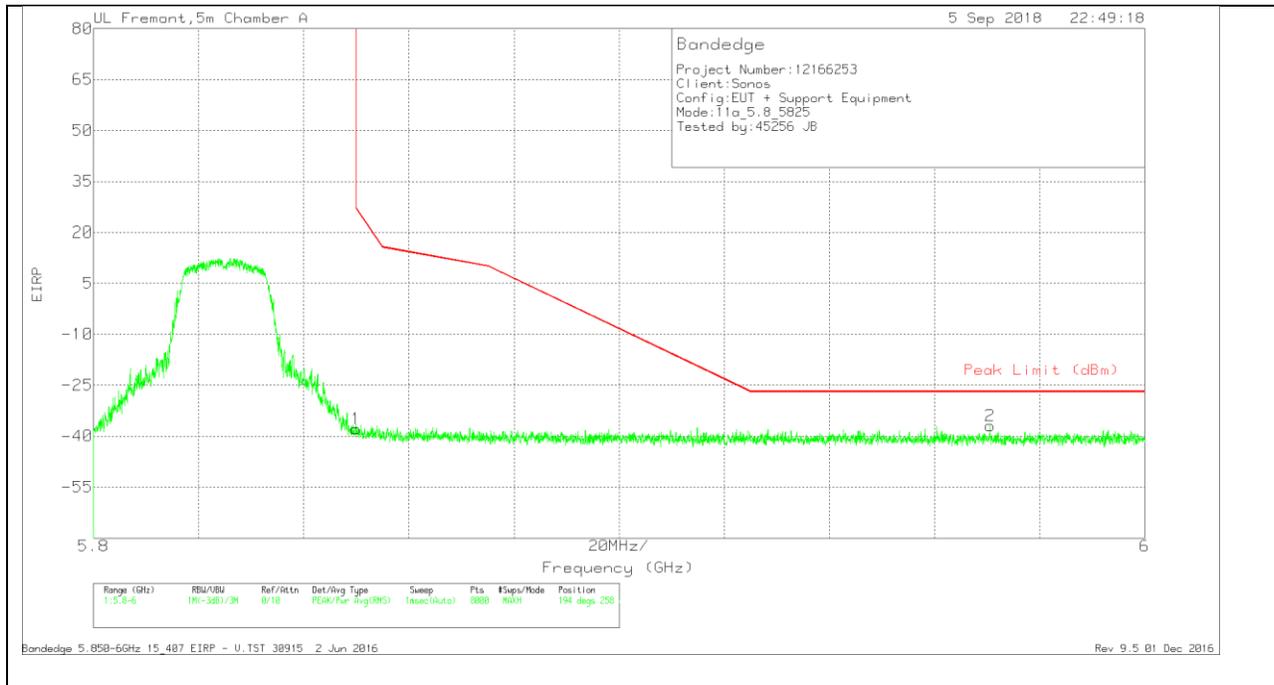
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.66	PK	35.1	-17.8	11.8	0	-39.56	26.99	-66.55	261	258	H
2	5.977	-67.03	PK	35.3	-17.4	11.8	0	-37.33	-27	-10.33	261	258	H

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

### VERTICAL RESULT

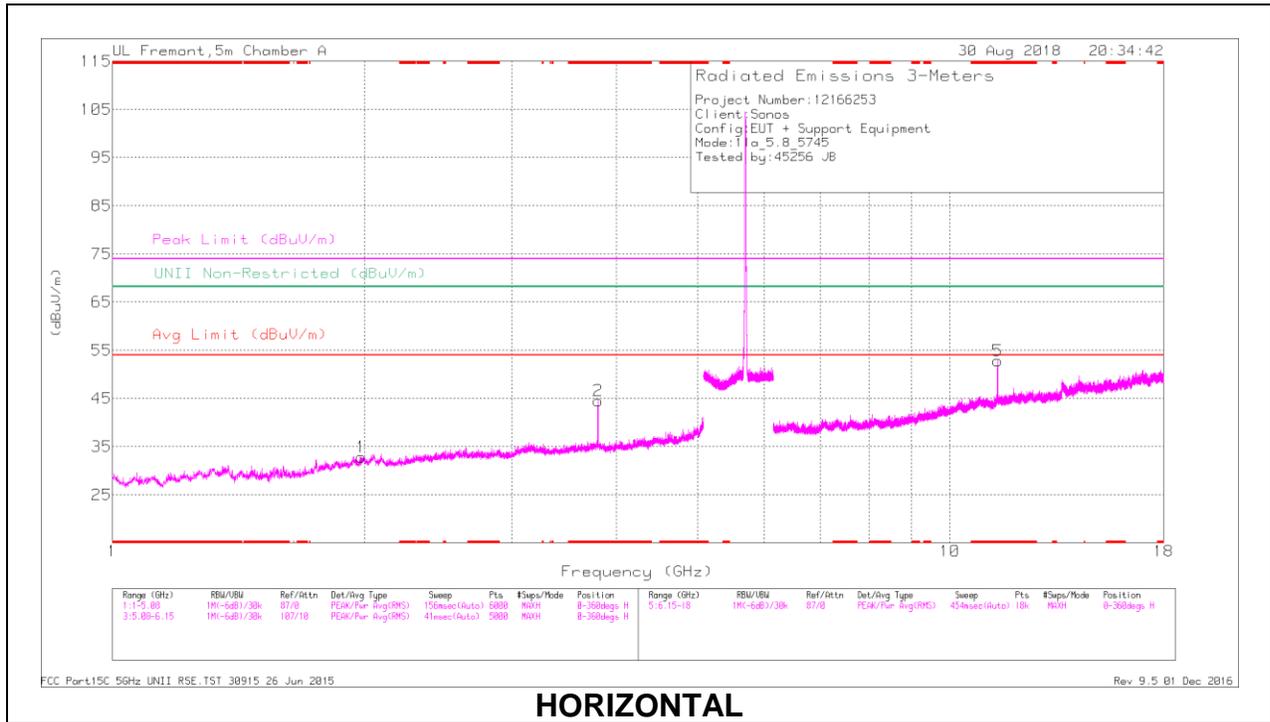


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.01	Pk	35.1	-17.8	11.8	0	-37.91	26.99	-64.9	194	258	V
2	5.971	-66.57	Pk	35.3	-17.4	11.8	0	-36.87	-27	-9.87	194	258	V

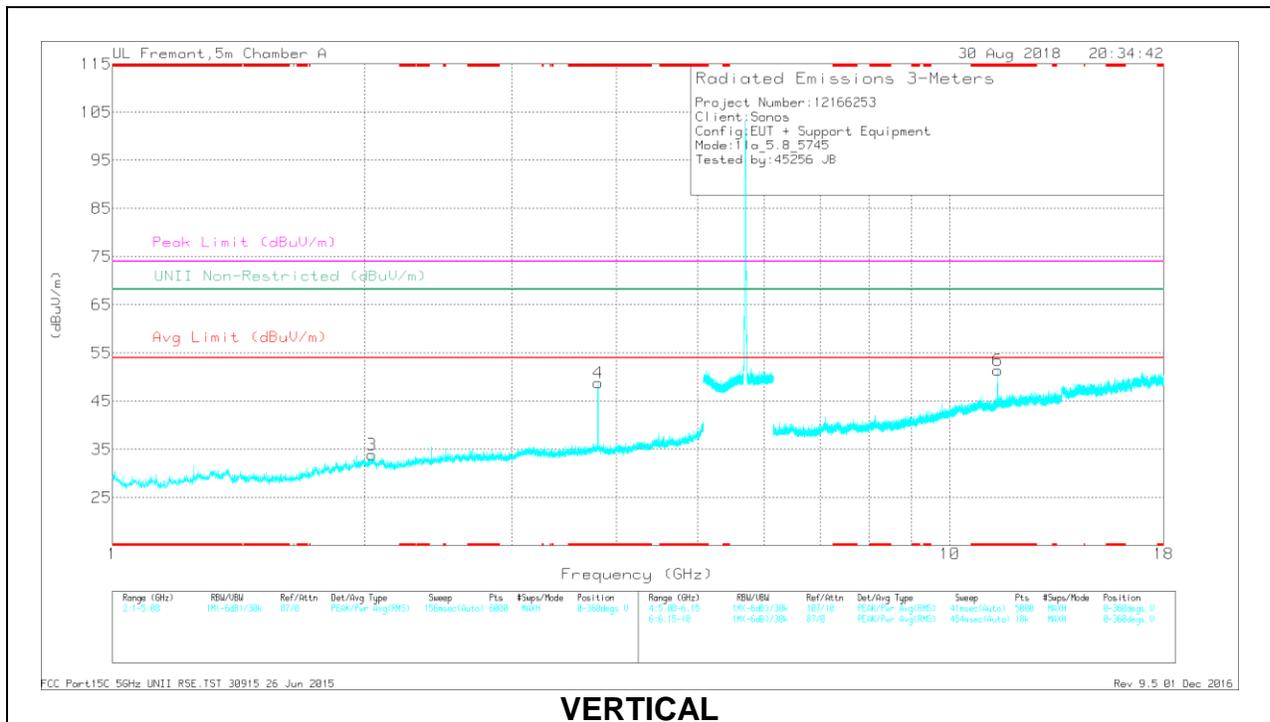
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



**HORIZONTAL**



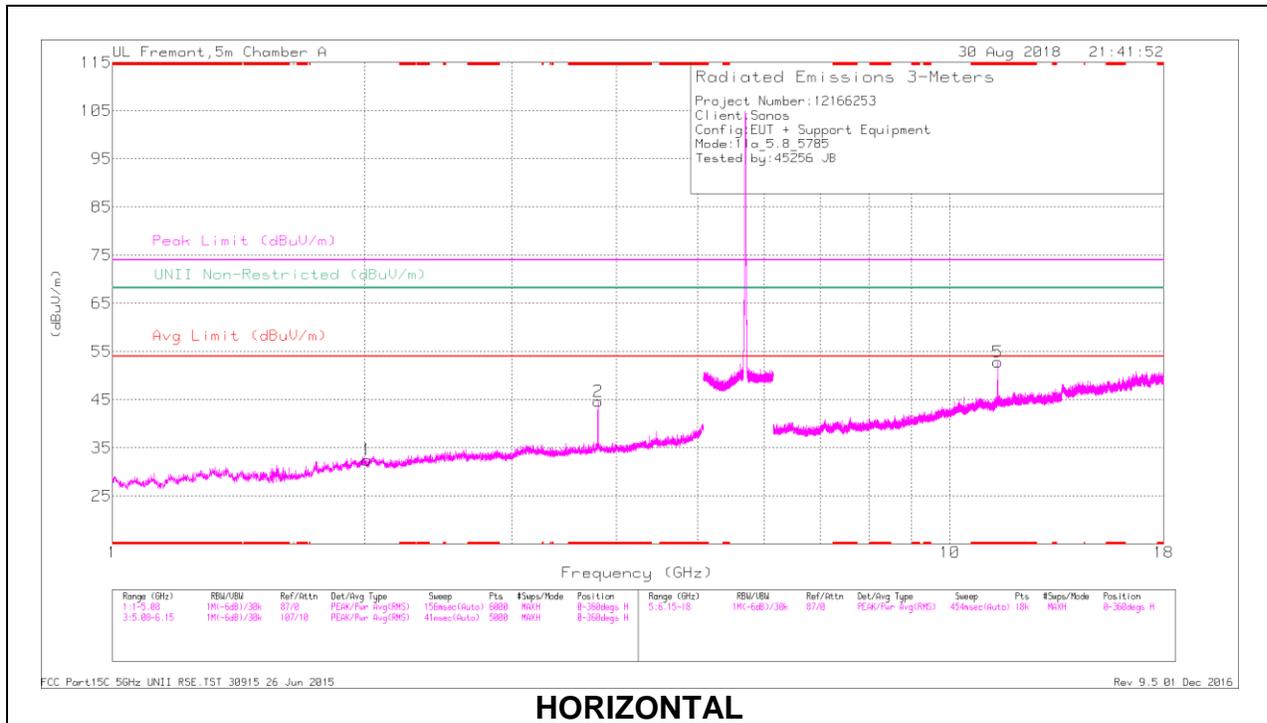
**VERTICAL**

**RADIATED EMISSIONS**

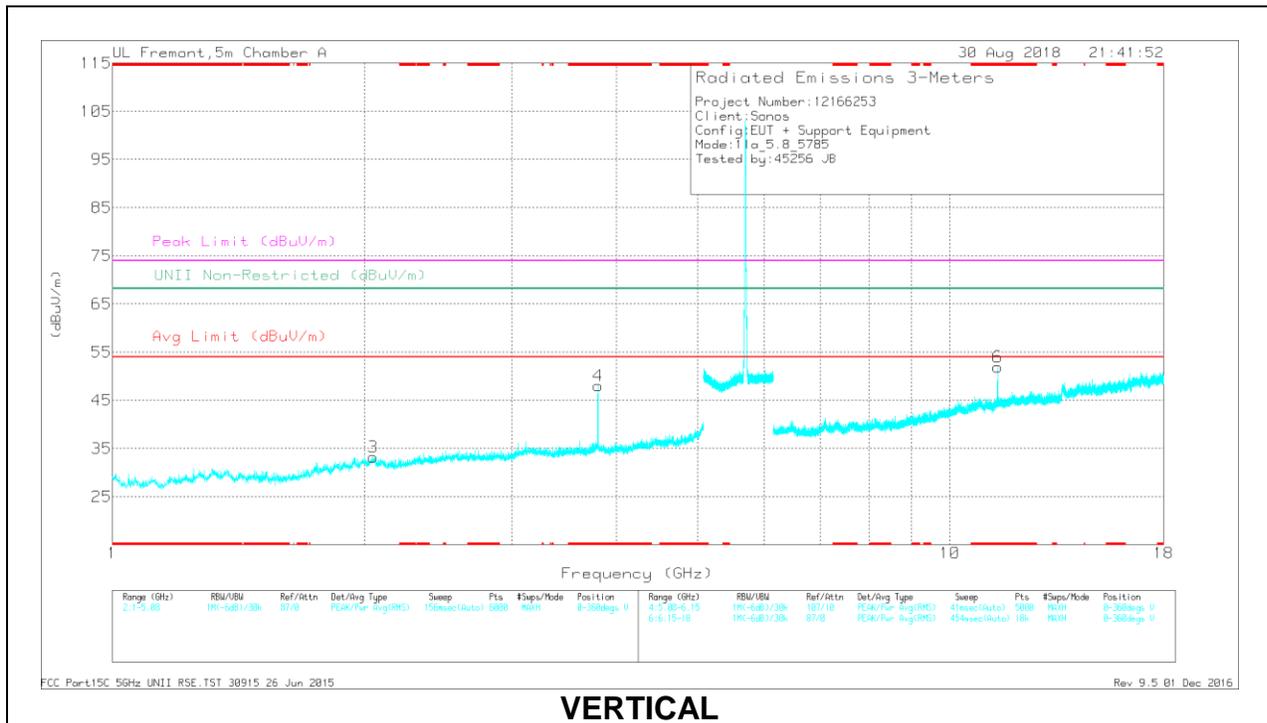
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T82 (dB/m)	AmpCbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	43.86	PK-U	33.2	-27.6	0	43.46	-	-	74	-24.54	-	-	65	227	H
* 3.8	39.74	ADR	33.2	-27.6	-.1	45.44	54	-8.56	-	-	-	-	65	227	H
* 3.8	45.8	PK-U	33.2	-27.6	0	51.4	-	-	74	-22.6	-	-	298	111	V
* 3.8	43.09	ADR	33.2	-27.6	-.1	48.79	54	-5.21	-	-	-	-	298	111	V
* 11.403	40.07	PK-U	38.2	-18.6	0	59.67	-	-	74	-14.33	-	-	4	103	H
* 11.403	28.39	ADR	38.2	-18.6	-.1	48.09	54	-5.91	-	-	-	-	4	103	H
* 11.403	40.21	PK-U	38.2	-18.6	0	53.81	-	-	74	-14.19	-	-	58	106	V
* 11.402	28.35	ADR	38.2	-18.6	-.1	48.05	54	-5.95	-	-	-	-	58	106	V
2.042	38.2	PK-U	31.4	-29.9	0	39.7	-	-	-	-	68.2	-28.5	59	269	V
3.018	38.3	PK-U	32.5	-29.7	0	41.1	-	-	-	-	68.2	-27.1	52	227	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

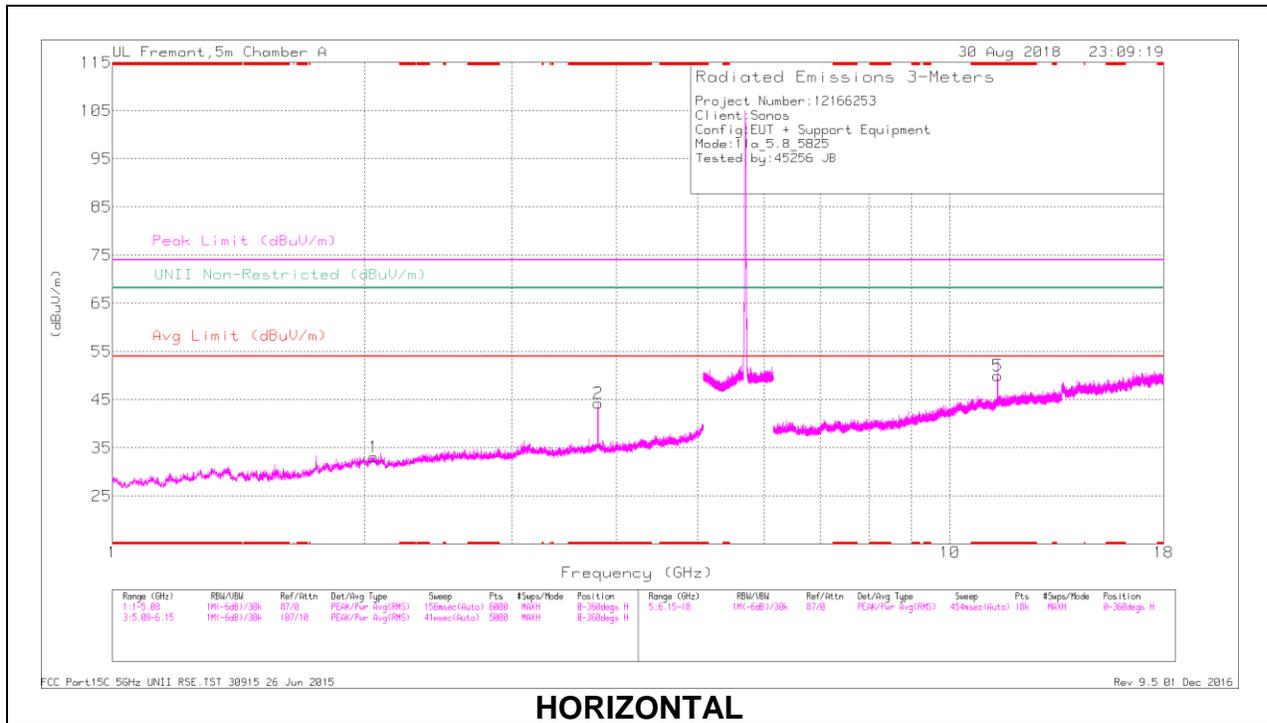
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T82 (dB/m)	AmpCbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	44.33	PK-U	33.2	-27.6	0	49.85	-	-	74	-24.07	-	-	168	166	H
* 3.8	40.59	ADR	33.2	-27.6	-.1	46.29	54	-7.71	-	-	-	-	168	166	H
* 3.8	45.94	PK-U	33.2	-27.6	0	51.54	-	-	74	-22.46	-	-	298	110	V
* 3.8	42.88	ADR	33.2	-27.6	-.1	48.58	54	-5.42	-	-	-	-	298	110	V
* 11.402	40.35	PK-U	38.2	-18.7	0	59.85	-	-	74	-14.15	-	-	3	101	H
* 11.402	28.53	ADR	38.2	-18.6	-.1	48.23	54	-5.77	-	-	-	-	3	101	H
* 11.405	38.19	PK-U	38.2	-18.6	0	57.79	-	-	74	-16.21	-	-	282	103	V
* 11.406	26.71	ADR	38.2	-18.6	-.1	46.41	54	-7.59	-	-	-	-	282	103	V
2.014	38.65	PK-U	31.4	-30.4	0	39.65	-	-	-	-	68.2	-28.55	250	251	H
2.05	38.35	PK-U	31.4	-30	0	39.75	-	-	-	-	68.2	-28.45	36	203	V

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

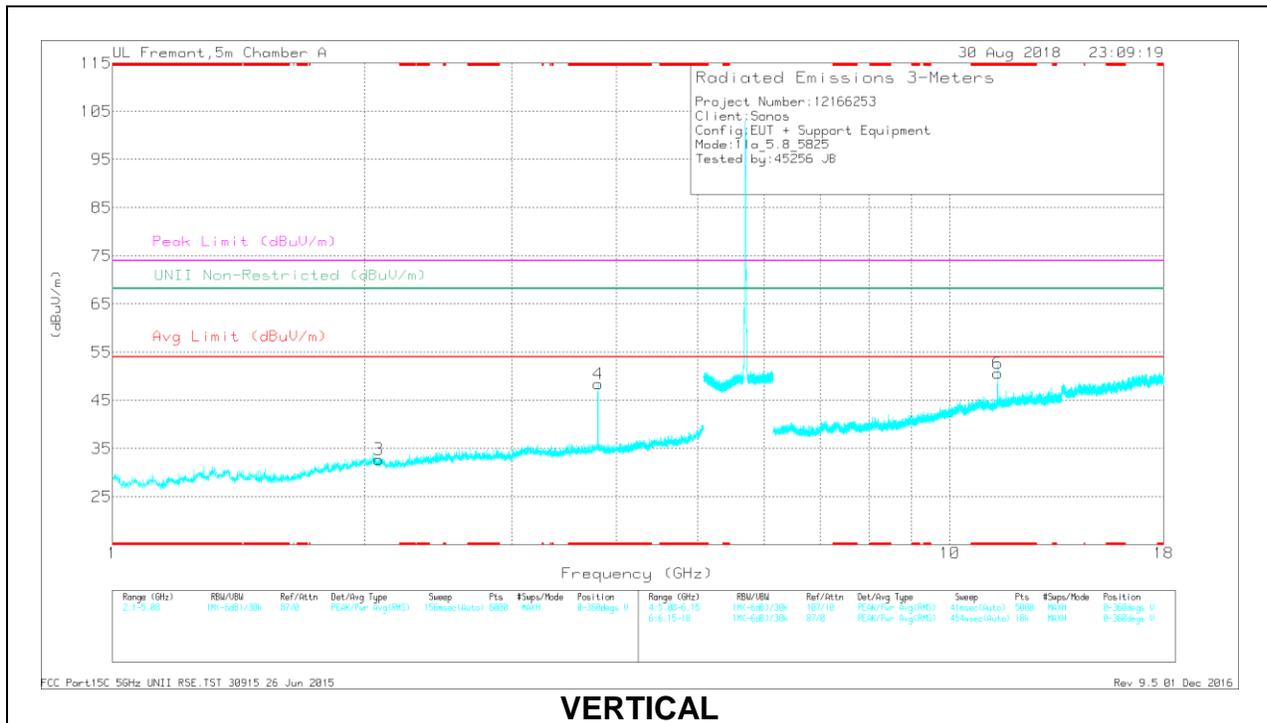
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

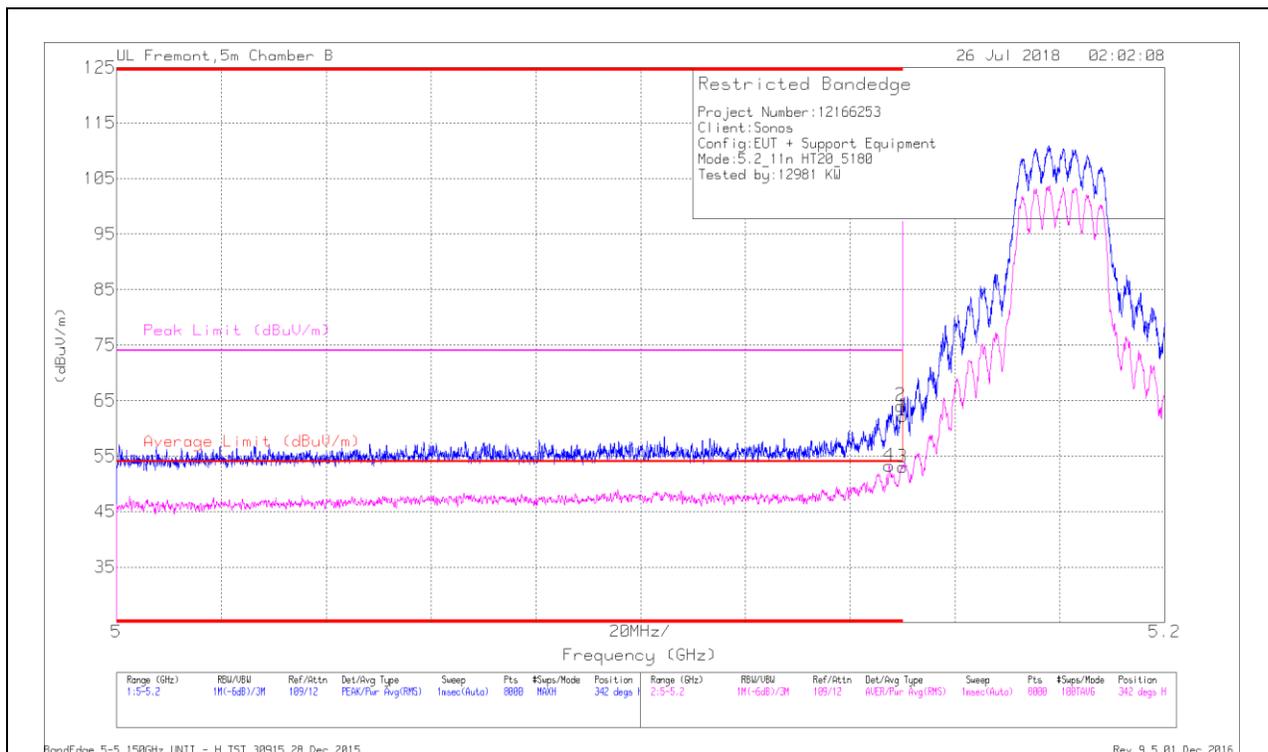
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T82 (dB/m)	AmpCsh/In/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	43.3	PK-U	33.2	-27.6	0	48.9	-	-	74	-25.1	-	-	63	226	H
* 3.8	39.22	ADR	33.2	-27.6	-.1	44.92	54	-9.08	-	-	-	-	63	226	H
* 3.8	45.76	PK-U	33.2	-27.6	0	51.36	-	-	74	-22.64	-	-	300	111	V
* 3.8	42.95	ADR	33.2	-27.6	-.1	48.65	54	-5.35	-	-	-	-	300	111	V
* 11.406	38.91	PK-U	38.2	-18.6	0	58.51	-	-	74	-15.49	-	-	360	110	H
* 11.406	27.28	ADR	38.2	-18.6	-.1	46.58	54	-7.02	-	-	-	-	360	110	H
* 11.406	40.79	PK-U	38.2	-18.6	0	63.39	-	-	74	-13.61	-	-	138	264	V
* 11.406	29.4	ADR	38.2	-18.6	-.1	49.1	54	-4.9	-	-	-	-	138	264	V
2.054	38.72	PK-U	31.4	-30.1	0	40.02	-	-	-	-	68.2	-28.18	267	115	H
2.081	38.12	PK-U	31.2	-30.1	0	39.22	-	-	-	-	68.2	-28.98	340	128	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### 9.1.5. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



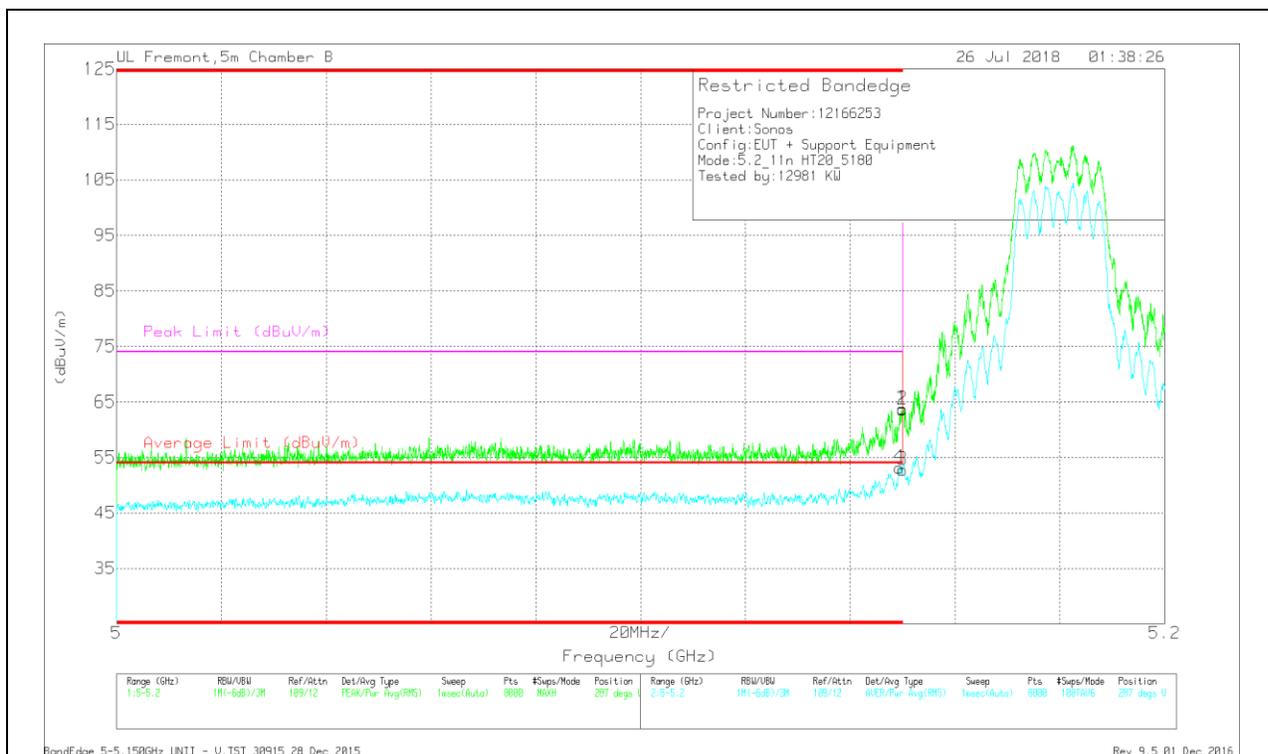
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cb1Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.06	Pk	34.6	-18.5	0	62.16	-	-	74	-11.84	342	192	H
2	* 5.15	47.95	Pk	34.6	-18.5	0	64.05	-	-	74	-9.95	342	192	H
3	* 5.15	36.55	RMS	34.6	-18.5	.32	52.97	54	-1.03	-	-	342	192	H
4	* 5.147	38.88	RMS	34.6	-18.6	.32	53.21	54	-1.79	-	-	342	192	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Chl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.72	Pk	34.6	-18.5	0	63.82	-	-	74	-10.18	287	174	V
2	* 5.15	47.58	Pk	34.6	-18.5	0	63.68	-	-	74	-10.32	287	174	V
3	* 5.15	36.38	RMS	34.6	-18.5	.32	52.8	54	-1.2	-	-	287	174	V
4	* 5.149	36.78	RMS	34.6	-18.5	.32	53.2	54	-8	-	-	287	174	V

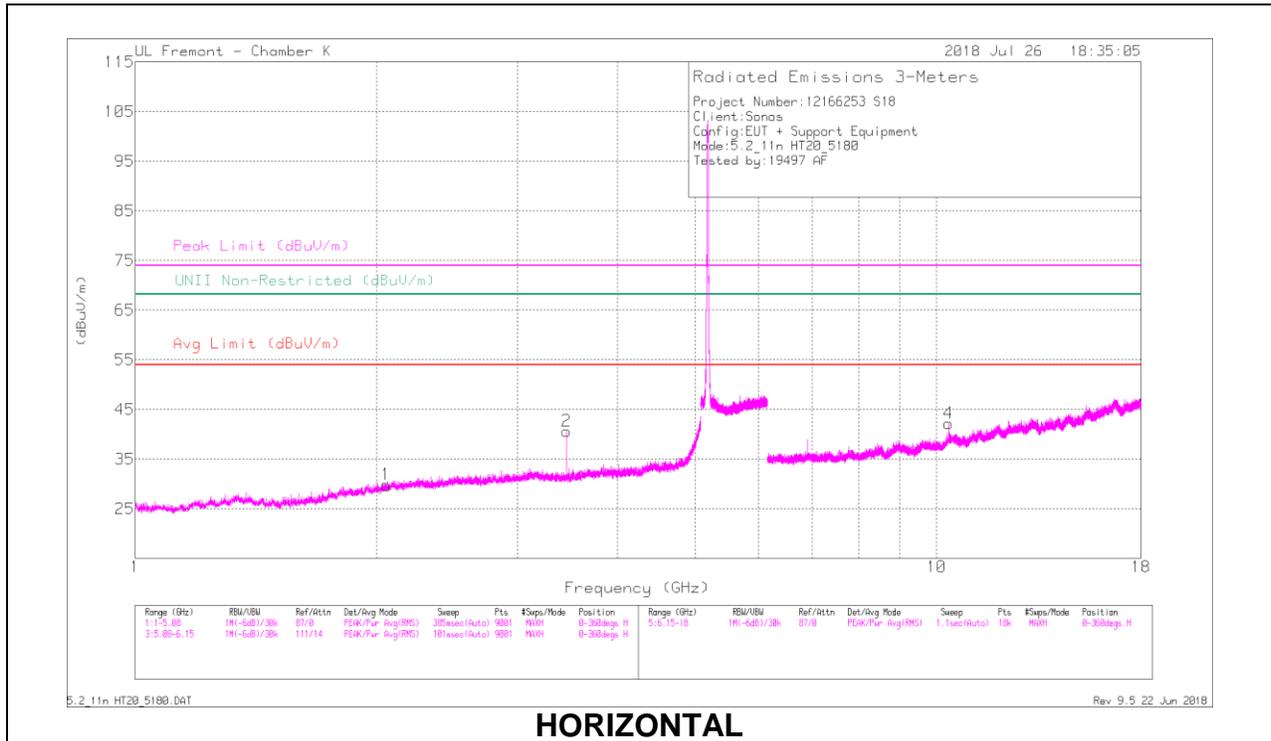
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

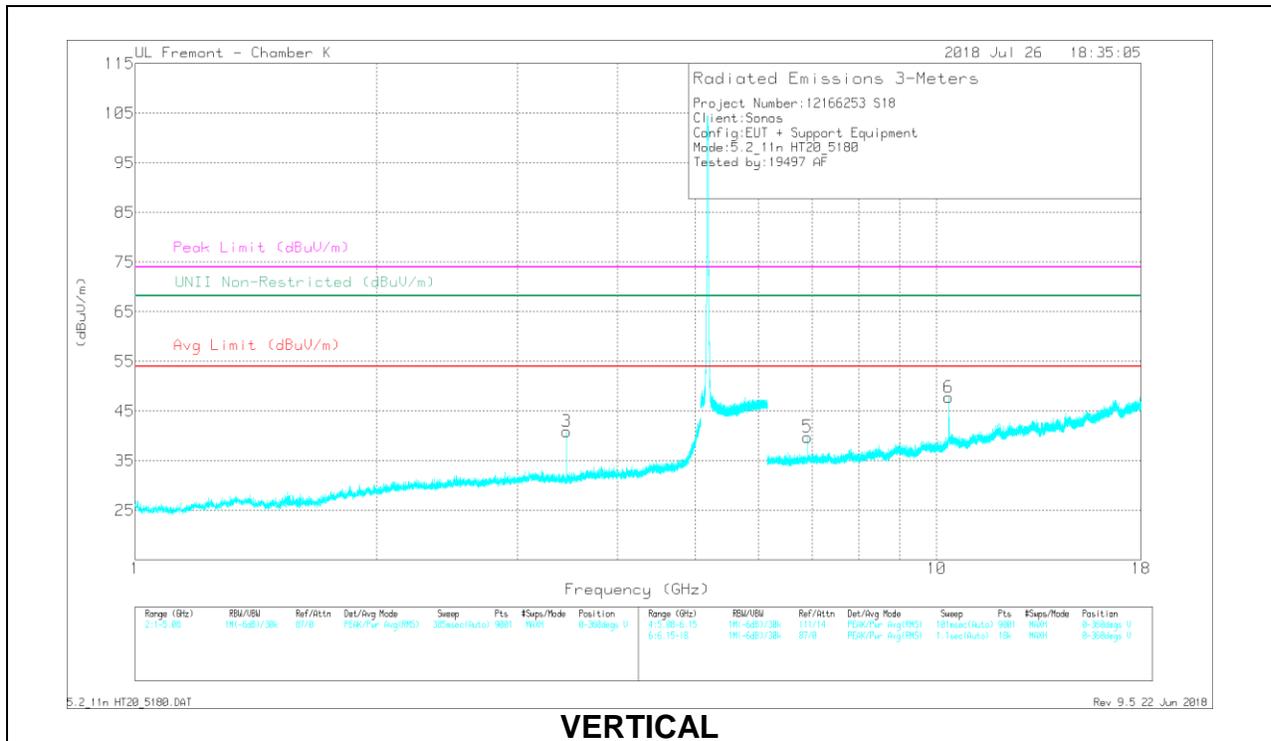
RMS - RMS detection

### HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

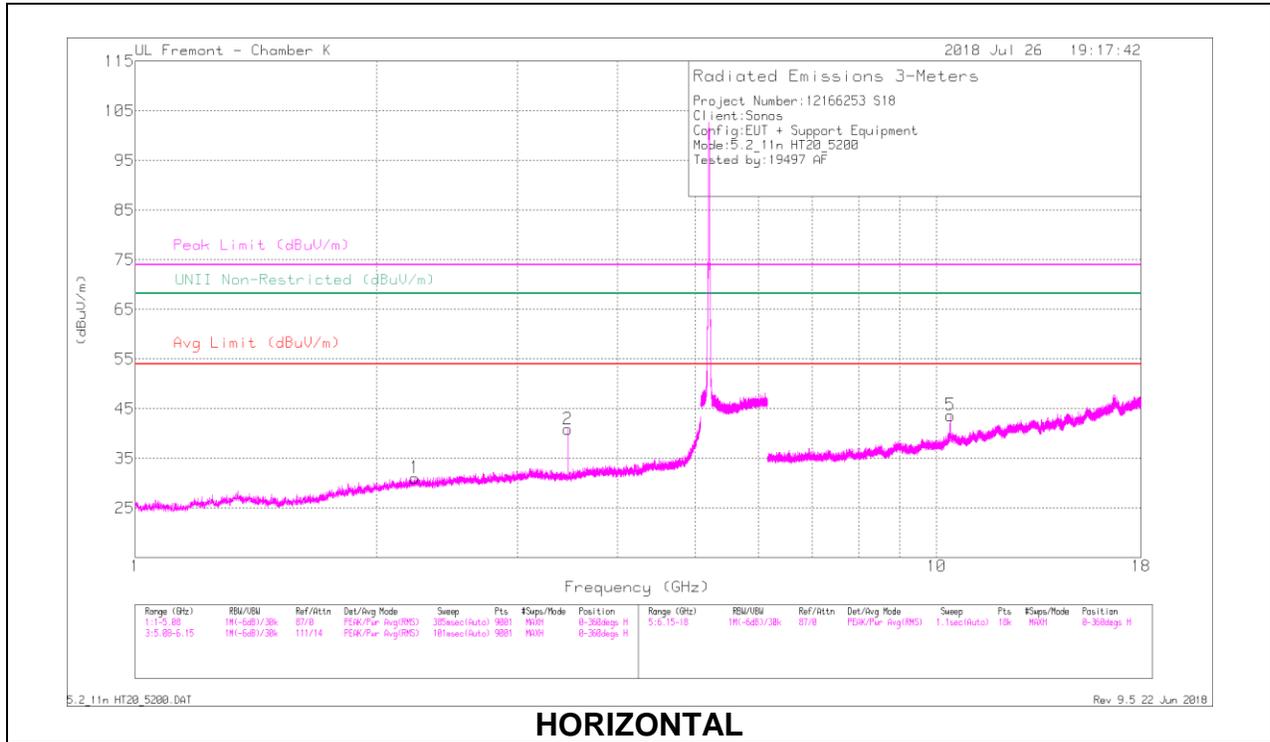
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cou/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.059	41.71	PK-U	31.3	-35.2	0	37.81	-	-	-	-	68.2	-30.39	153	117	H
3.453	42.65	PK-U	32.6	-32.9	0	42.35	-	-	-	-	68.2	-25.85	263	297	H
3.453	44.73	PK-U	32.6	-32.9	0	44.43	-	-	-	-	68.2	-23.77	301	102	V
10.362	34.47	PK-U	37.4	-23.1	0	48.77	-	-	-	-	68.2	-19.43	248	266	H
6.907	36.84	PK-U	35.5	-26.6	0	45.74	-	-	-	-	68.2	-22.46	37	188	V
10.36	32.33	PK-U	37.4	-23	0	46.73	-	-	-	-	68.2	-21.47	89	176	V

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

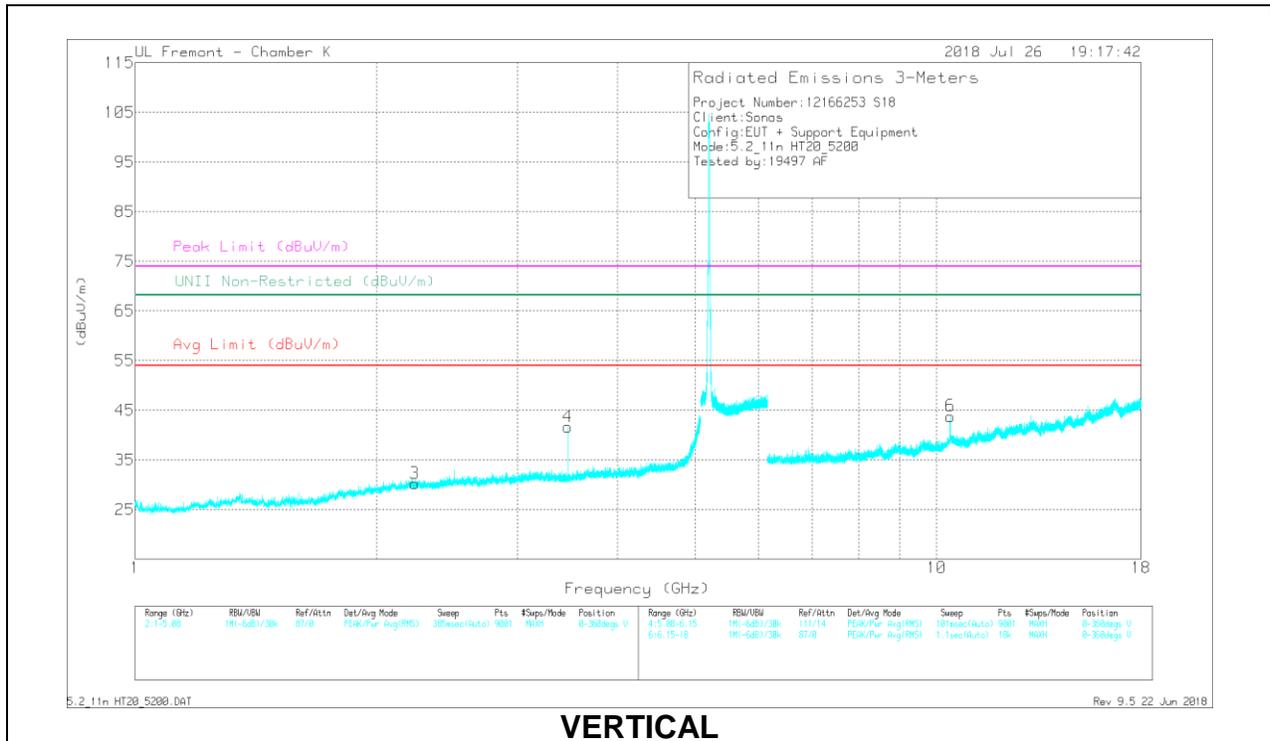
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

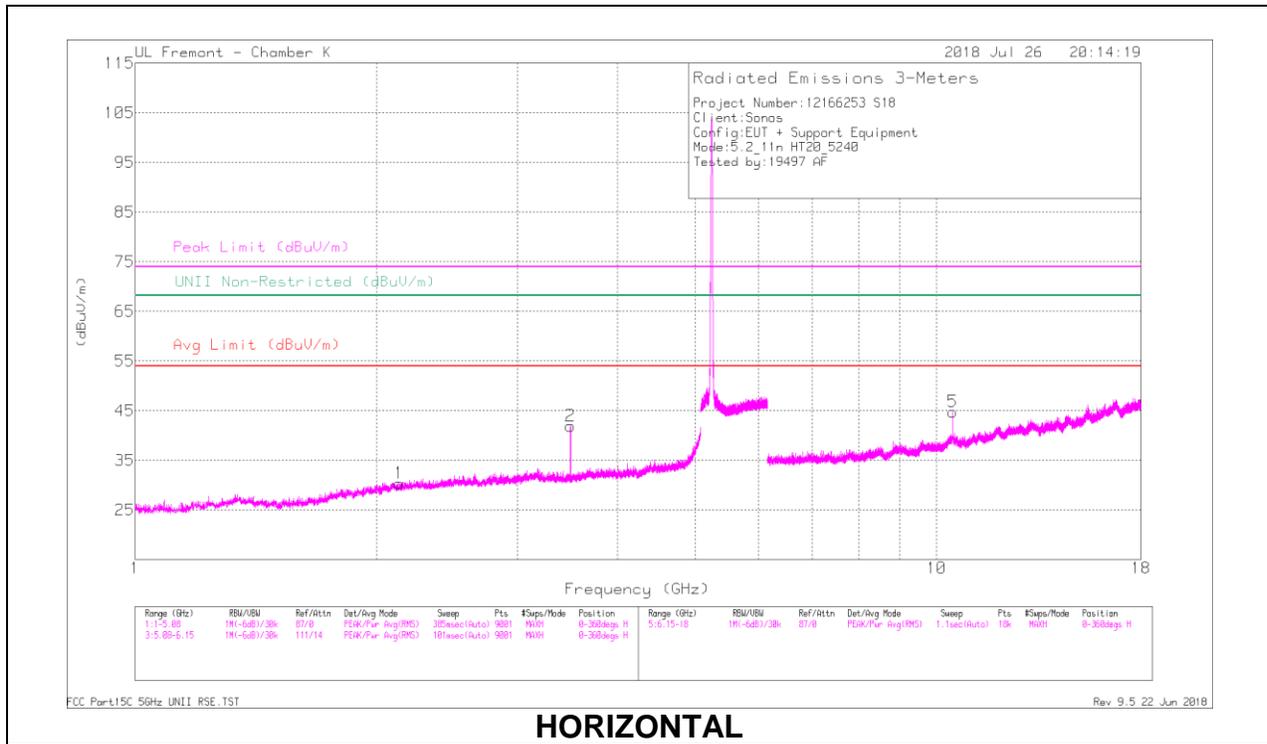
Frequency (MHz)	Meter Reading (dBuV)	Det	AF T344 (dBm)	Ampl/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.236	40.95	PK-U	31.9	-35.2	0	37.65	-	-	74	-36.35	-	-	254	149	H
2.235	31.63	ADR	31.9	-35.2	.32	28.65	54	-25.35	-	-	-	-	254	149	H
3.467	43.55	PK-U	32.6	-32.9	0	43.25	-	-	-	-	68.2	-24.95	257	207	H
* 2.236	41.78	PK-U	31.9	-35.2	0	38.48	-	-	74	-35.52	-	-	342	179	V
* 2.233	31.83	ADR	31.9	-35.2	.32	28.85	54	-25.15	-	-	-	-	342	179	V
3.467	43.42	PK-U	32.6	-32.9	0	43.12	-	-	-	-	68.2	-25.08	188	198	V
10.399	35	PK-U	37.4	-22.9	0	49.5	-	-	-	-	68.2	-18.7	145	102	H
10.401	36.93	PK-U	37.4	-22.8	0	51.53	-	-	-	-	68.2	-16.67	137	102	V

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

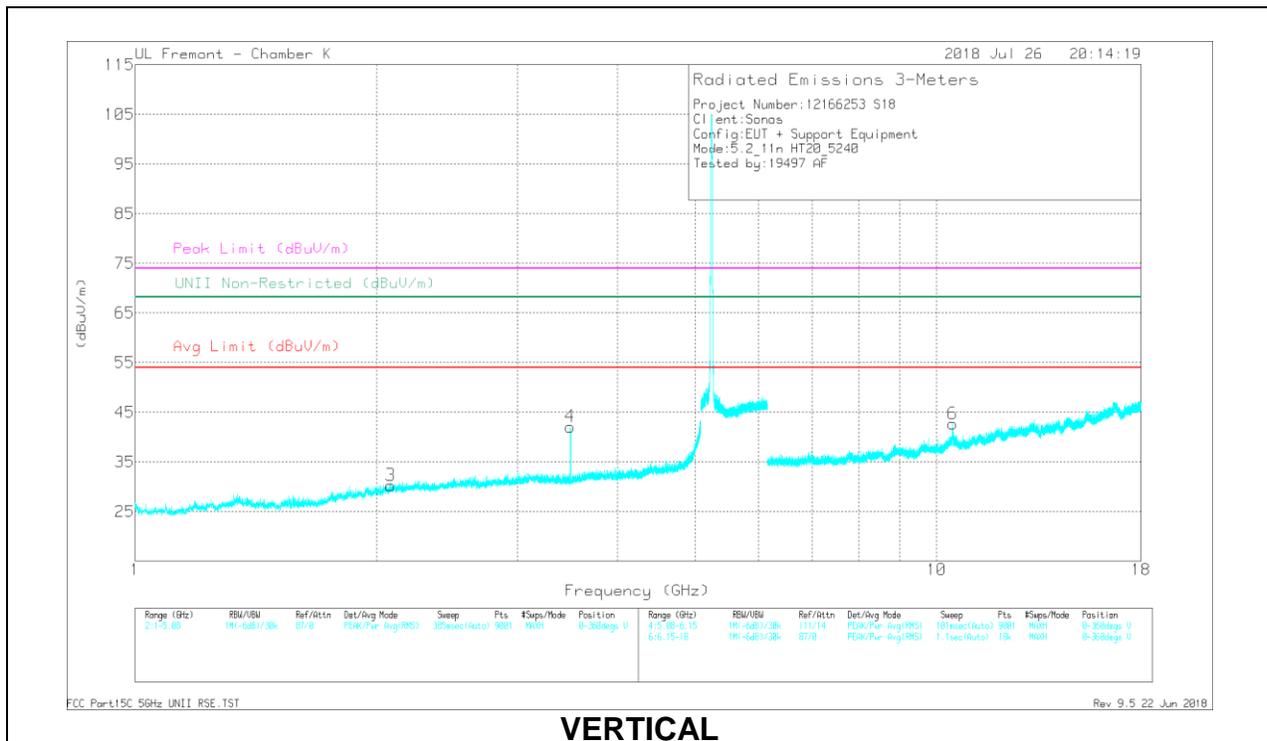
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

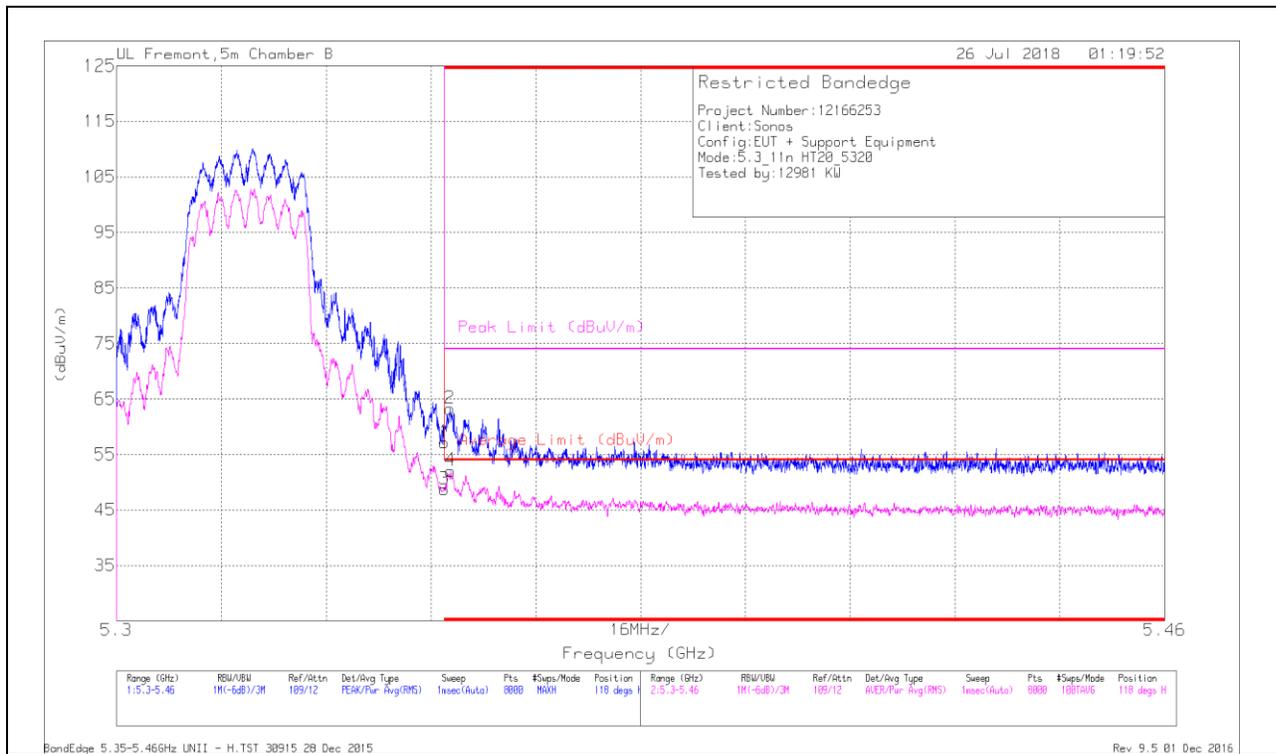
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dBm)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.134	40.84	PK-U	31.6	-35.1	0	37.34	-	-	-	-	68.2	-30.86	54	284	H
3.493	43.16	PK-U	32.6	-32.7	0	43.06	-	-	-	-	68.2	-25.14	263	313	H
2.082	40.7	PK-U	31.5	-35.2	0	37	-	-	-	-	68.2	-31.2	109	274	V
3.493	44.76	PK-U	32.6	-32.7	0	44.66	-	-	-	-	68.2	-23.54	308	222	V
10.481	35.9	PK-U	37.6	-22.9	0	50.6	-	-	-	-	68.2	-17.6	33	160	H
10.476	37.28	PK-U	37.5	-22.9	0	51.88	-	-	-	-	68.2	-16.32	301	206	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**9.1.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



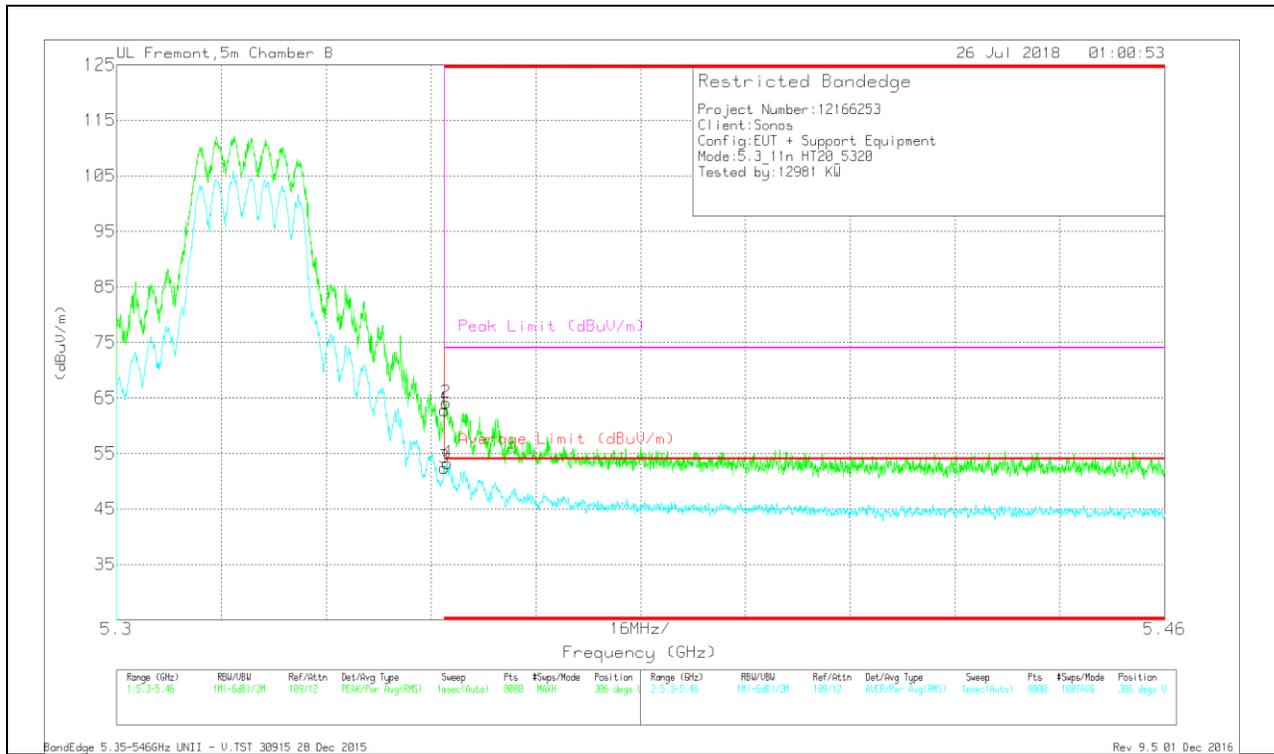
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.27	Pk	35	-19.1	0	57.17	-	-	74	-16.83	118	175	H
2	* 5.351	47.23	Pk	35	-19	0	63.23	-	-	74	-10.77	118	175	H
3	* 5.35	32.53	RMS	35	-19.1	.32	48.75	54	-5.25	-	-	118	175	H
4	* 5.351	35.75	RMS	35	-19	.32	52.07	54	-1.93	-	-	118	175	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

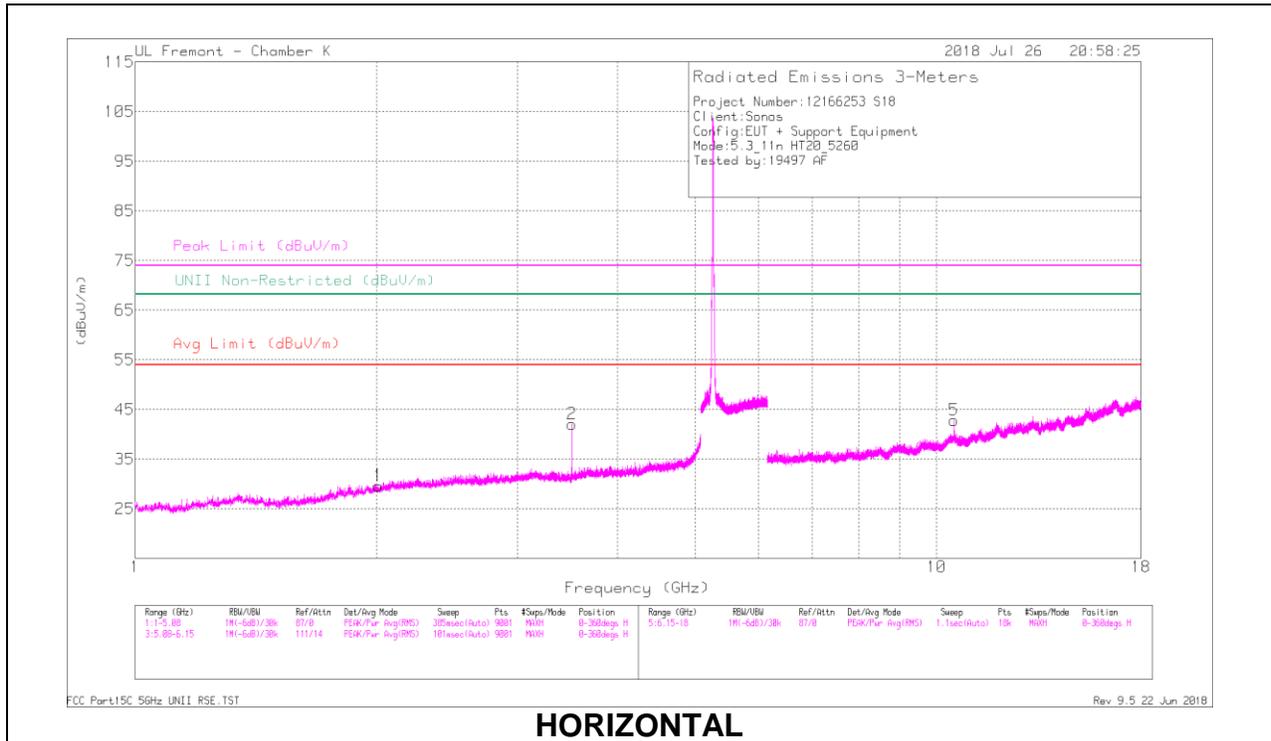


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cou/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	46.93	Pk	35	-19.1	0	62.83	-	-	74	-11.17	306	121	V
2	* 5.35	48.21	Pk	35	-19.1	0	64.11	-	-	74	-9.89	306	121	V
3	* 5.35	36.21	RMS	35	-19.1	32	52.43	54	-1.57	-	-	306	121	V
4	* 5.35	36.93	RMS	35	-19	32	53.25	54	-.75	-	-	306	121	V

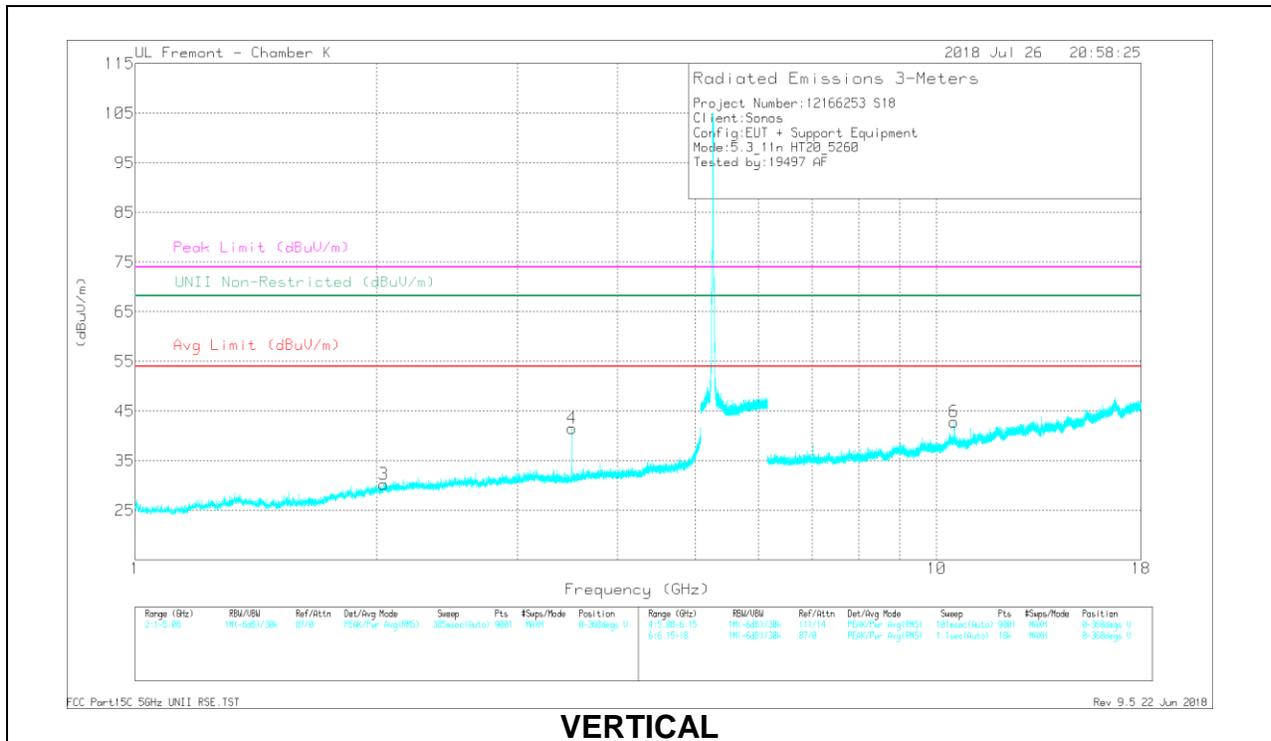
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

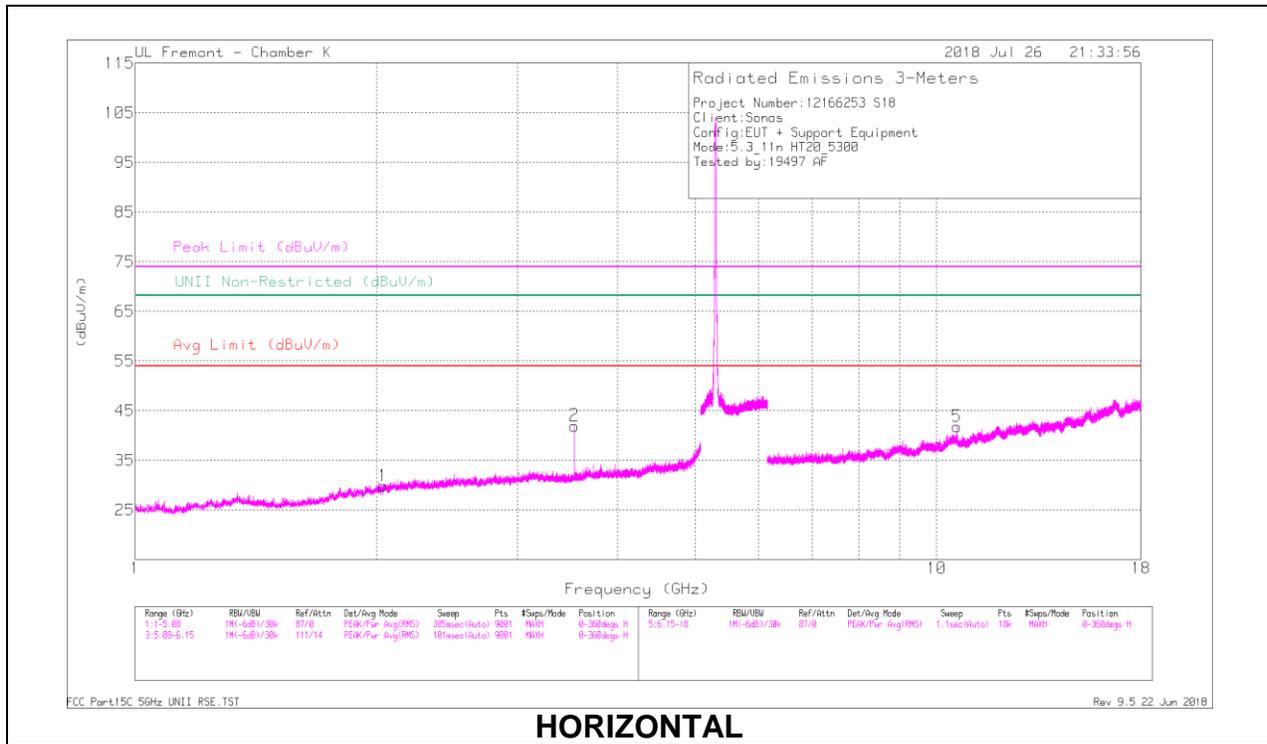
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dBm)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.012	41.37	PK-U	31.1	-35.2	0	37.27	-	-	-	-	68.2	-30.93	226	254	H
* 3.507	44.53	PK-U	32.7	-32.8	0	44.43	-	-	74	-29.57	-	-	254	171	H
* 3.507	40.87	ADR	32.7	-32.8	.32	41.09	54	-12.91	-	-	-	-	254	171	H
2.041	40.53	PK-U	31.2	-35.1	0	36.63	-	-	-	-	68.2	-31.57	160	178	V
* 3.507	45.17	PK-U	32.7	-32.8	0	45.07	-	-	74	-28.93	-	-	305	217	V
* 3.507	41.19	ADR	32.7	-32.8	.32	41.41	54	-12.59	-	-	-	-	305	217	V
10.517	34.85	PK-U	37.6	-22.5	0	49.95	-	-	-	-	68.2	-18.25	23	274	H
10.519	38.38	PK-U	37.6	-22.5	0	53.49	-	-	-	-	68.2	-14.71	296	165	V

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

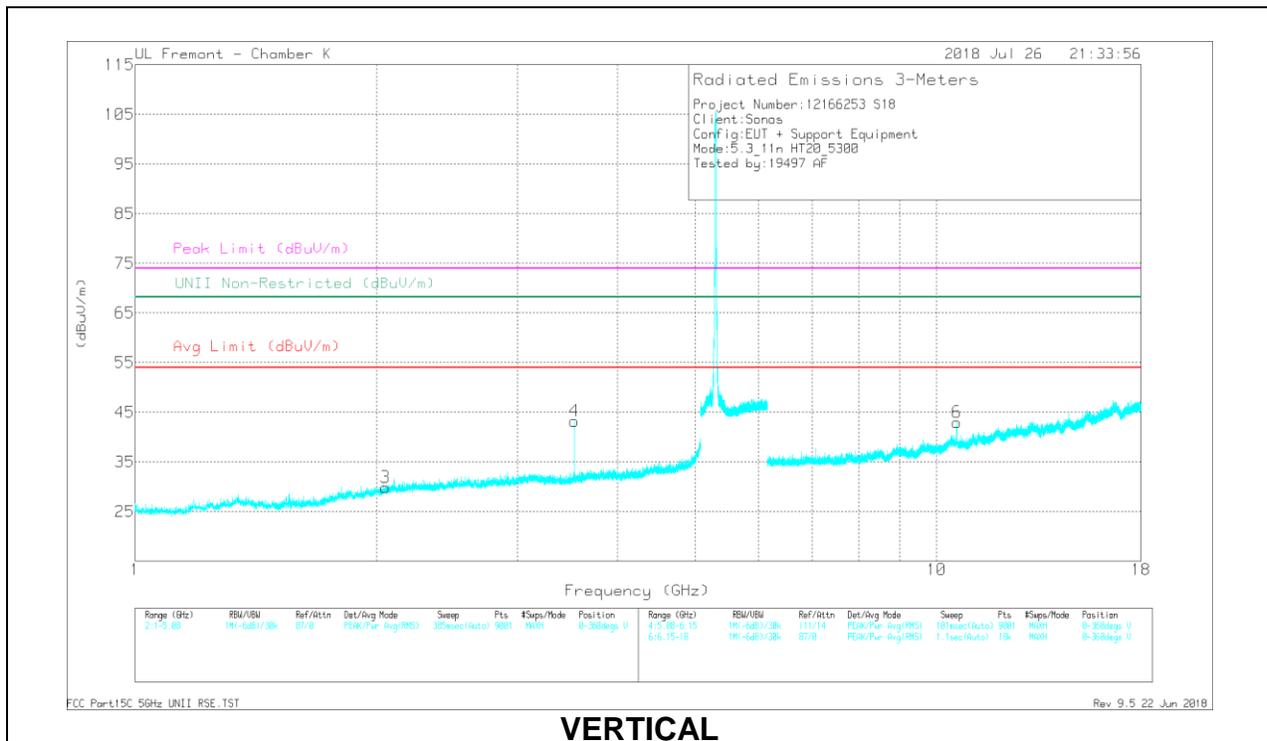
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



### HORIZONTAL



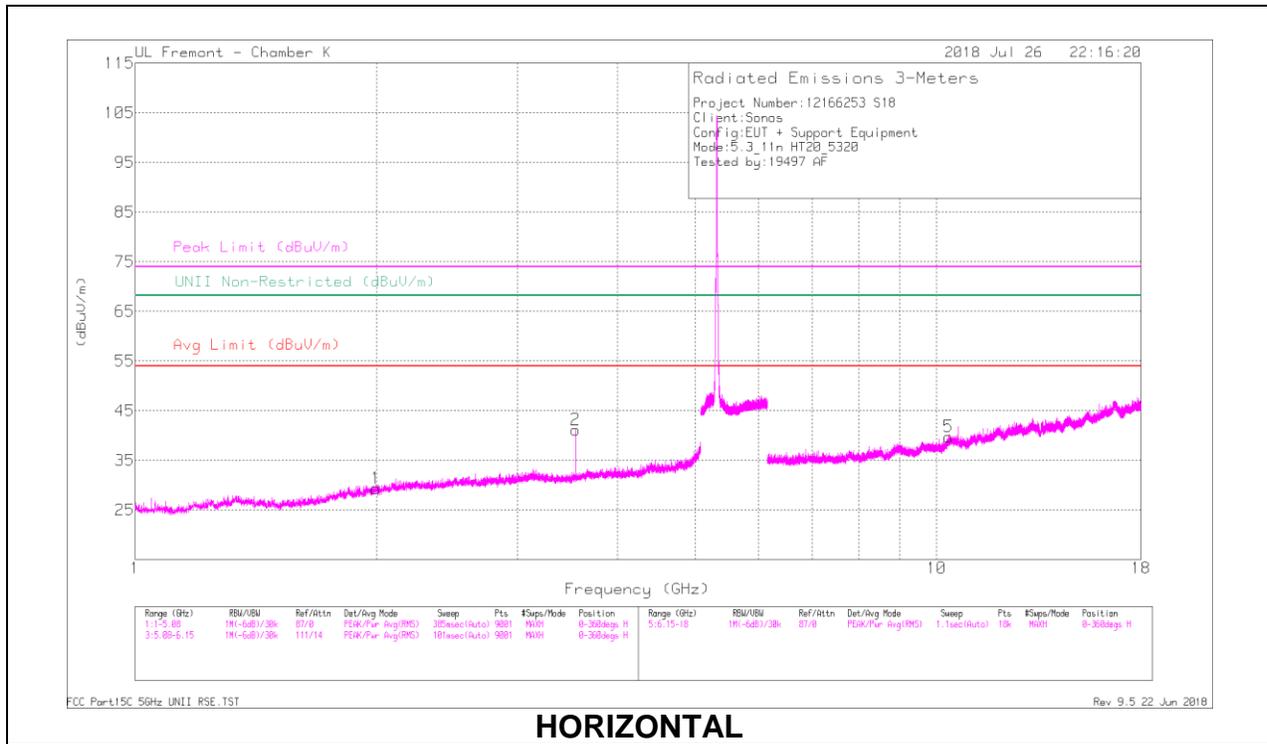
### VERTICAL

**RADIATED EMISSIONS**

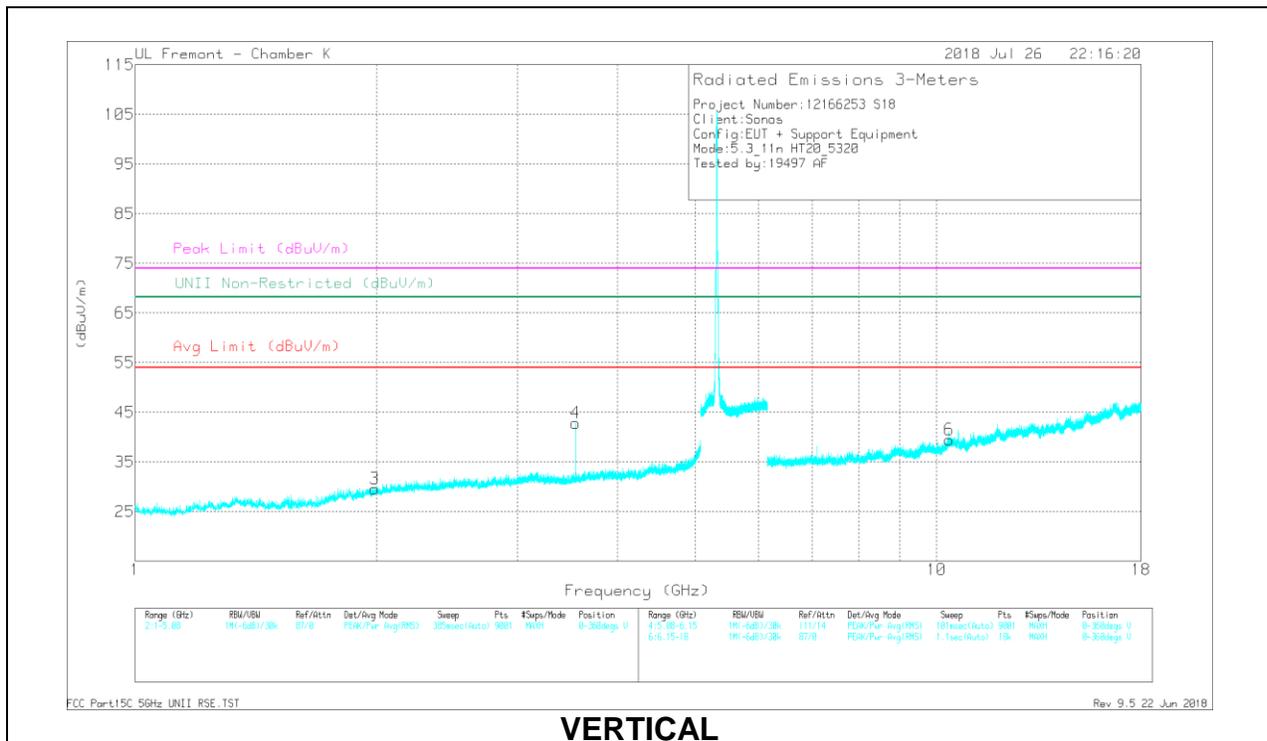
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	AmpCblFilt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.037	40.95	PK-U	31.2	-35.1	0	37.05	-	-	-	-	68.2	-31.15	93	264	H
* 3.533	44.5	PK-U	32.8	-32.6	0	44.7	-	-	74	-29.3	-	-	257	168	H
* 3.533	40.47	ADR	32.8	-32.6	.32	40.99	54	-13.01	-	-	-	-	257	168	H
2.05	40.69	PK-U	31.2	-35.1	0	36.79	-	-	-	-	68.2	-31.41	98	172	V
* 3.533	44.54	PK-U	32.8	-32.6	0	44.74	-	-	74	-29.26	-	-	312	231	V
* 3.533	40.81	ADR	32.8	-32.6	.32	41.33	54	-12.67	-	-	-	-	312	231	V
* 11.808	32.15	PK-U	38.4	-20.9	0	43.65	-	-	74	-24.35	-	-	179	101	H
* 11.817	21.15	ADR	38.4	-20.8	.32	39.07	54	-14.93	-	-	-	-	179	101	H
* 11.814	32.82	PK-U	38.4	-20.8	0	50.42	-	-	74	-23.58	-	-	324	102	V
* 11.781	21.57	ADR	38.3	-20.8	.32	39.39	54	-14.61	-	-	-	-	324	102	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

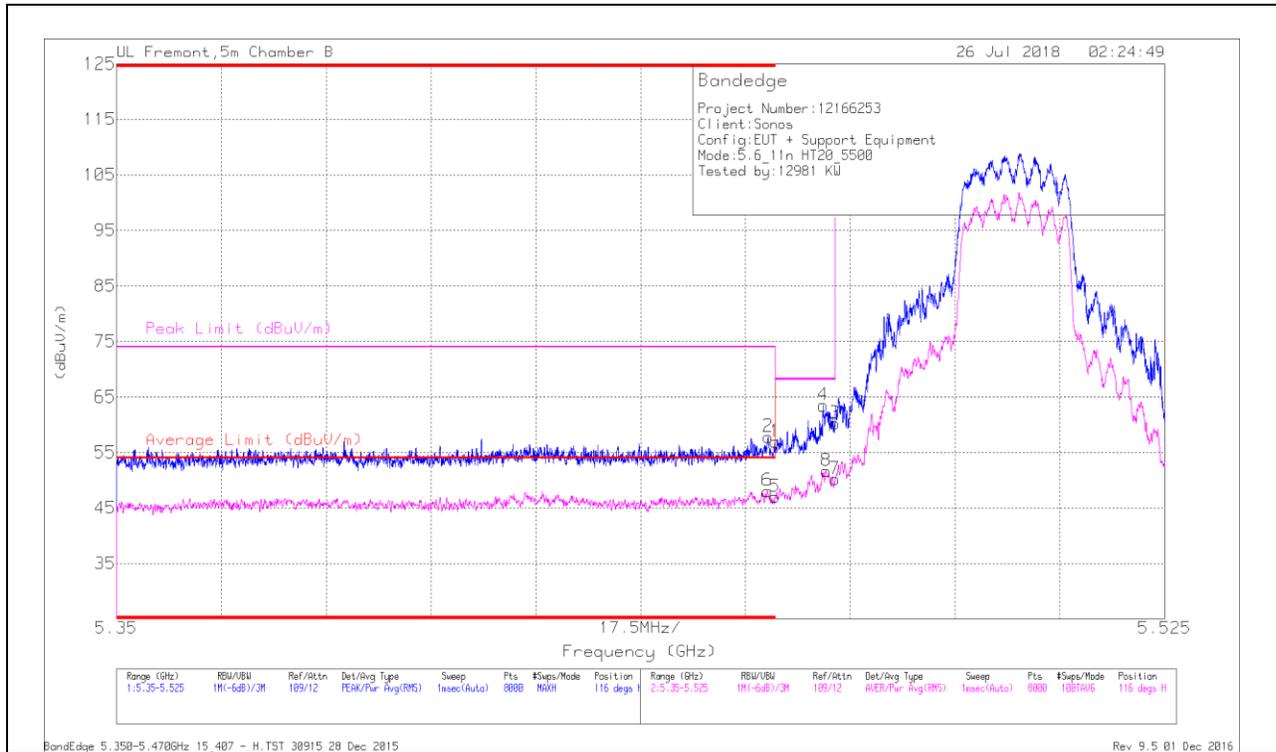
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dBm)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.989	41.07	PK-U	31	-35.2	0	35.87	-	-	-	-	68.2	-31.33	101	327	H
* 3.547	44.86	PK-U	32.9	-32.5	0	45.26	-	-	74	-28.74	-	-	249	157	H
* 3.547	40.64	ADR	32.9	-32.5	.32	41.36	54	-12.64	-	-	-	-	249	157	H
1.989	41.29	PK-U	31	-35.2	0	37.09	-	-	-	-	68.2	-31.11	199	241	V
* 3.547	44.88	PK-U	32.9	-32.5	0	45.28	-	-	74	-28.72	-	-	307	231	V
* 3.547	40.83	ADR	32.9	-32.5	.32	41.55	54	-12.45	-	-	-	-	307	231	V
10.349	32.28	PK-U	37.4	-23.1	0	45.58	-	-	-	-	68.2	-21.82	309	320	H
10.376	32.01	PK-U	37.4	-23.1	0	46.31	-	-	-	-	68.2	-21.89	306	314	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**9.1.7. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



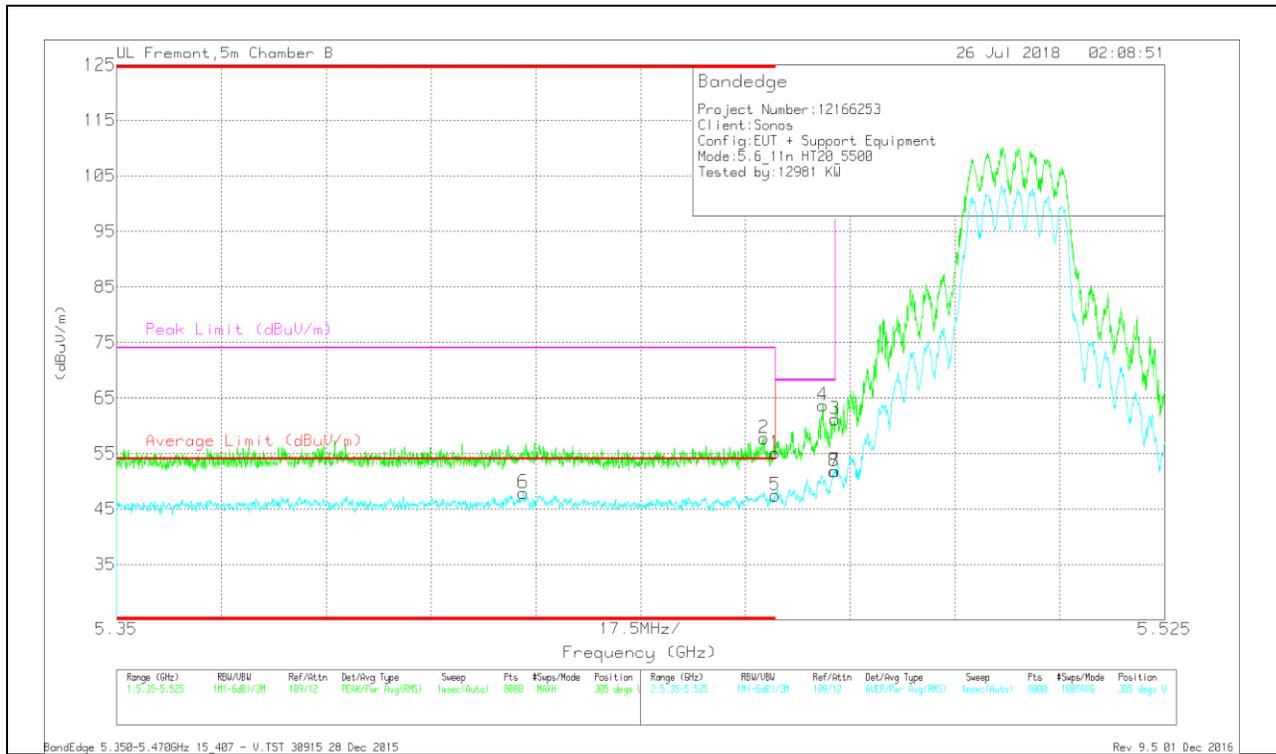
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.459	42.11	Pk	35.3	-19.6	0	57.81	-	-	74	-16.19	116	186	H
6	* 5.459	32.05	RMS	35.3	-19.6	.32	48.07	54	-5.93	-	-	116	186	H
1	* 5.46	41.19	Pk	35.3	-19.6	0	56.89	-	-	74	-17.11	116	186	H
5	* 5.46	31.02	RMS	35.3	-19.6	.32	47.04	54	-6.96	-	-	116	186	H
4	5.468	47.78	Pk	35.3	-19.6	0	63.48	-	-	68.2	-4.72	116	186	H
8	5.468	35.65	RMS	35.3	-19.6	.32	51.67	-	-	-	-	116	186	H
3	5.47	44.49	Pk	35.3	-19.6	0	60.19	-	-	68.2	-8.01	116	186	H
7	5.47	34.16	RMS	35.3	-19.6	.32	50.18	-	-	-	-	116	186	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

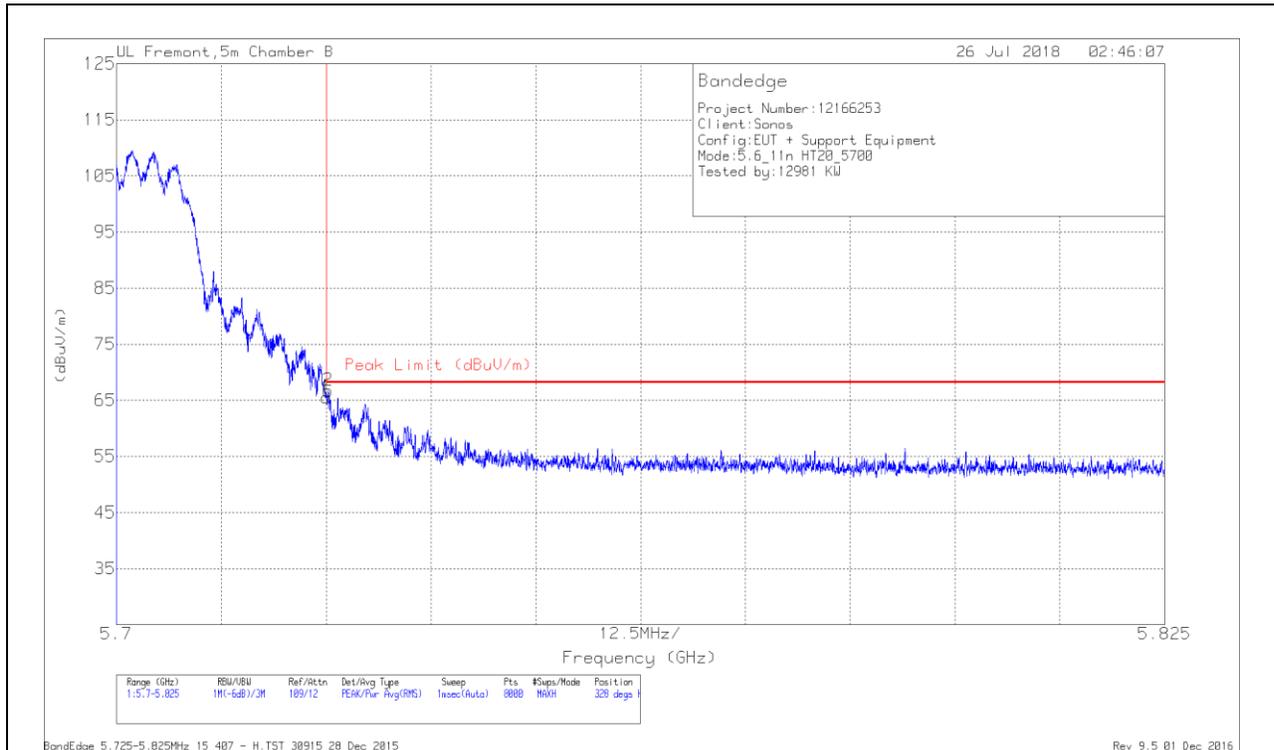


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cable/Fit/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.4	Pk	35.3	-19.6	0	35.1	-	-	74	-18.9	305	201	V
2	* 5.458	42.04	Pk	35.3	-19.6	0	57.74	-	-	74	-16.26	305	201	V
5	* 5.46	31.44	RMS	35.3	-19.6	.32	47.46	54	-6.54	-	-	305	201	V
6	* 5.418	31.8	RMS	35.2	-19.4	.32	47.92	54	-6.08	-	-	305	201	V
4	5.468	47.96	Pk	35.3	-19.6	0	63.66	-	-	68.2	-4.54	305	201	V
3	5.47	45.45	Pk	35.3	-19.6	0	61.15	-	-	68.2	-7.05	305	201	V
7	5.47	35.82	RMS	35.3	-19.6	.32	51.84	-	-	-	-	305	201	V
8	5.47	35.85	RMS	35.3	-19.7	.32	51.77	-	-	-	-	305	201	V

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

**BANDEDGE (HIGH CHANNEL)**

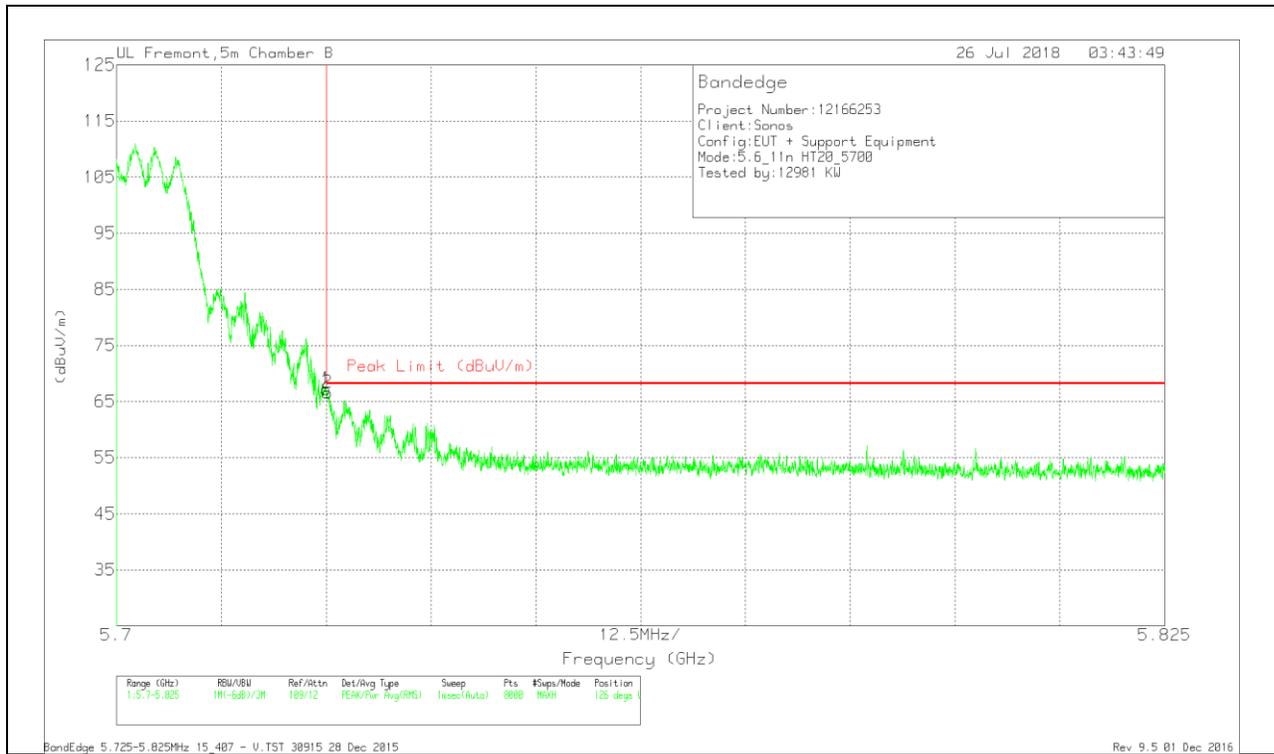
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	50.06	Pk	35.5	-20	65.56	68.2	-2.64	328	158	H
2	5.725	51.21	Pk	35.5	-20	66.71	68.2	-1.49	328	158	H

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

### VERTICAL RESULT



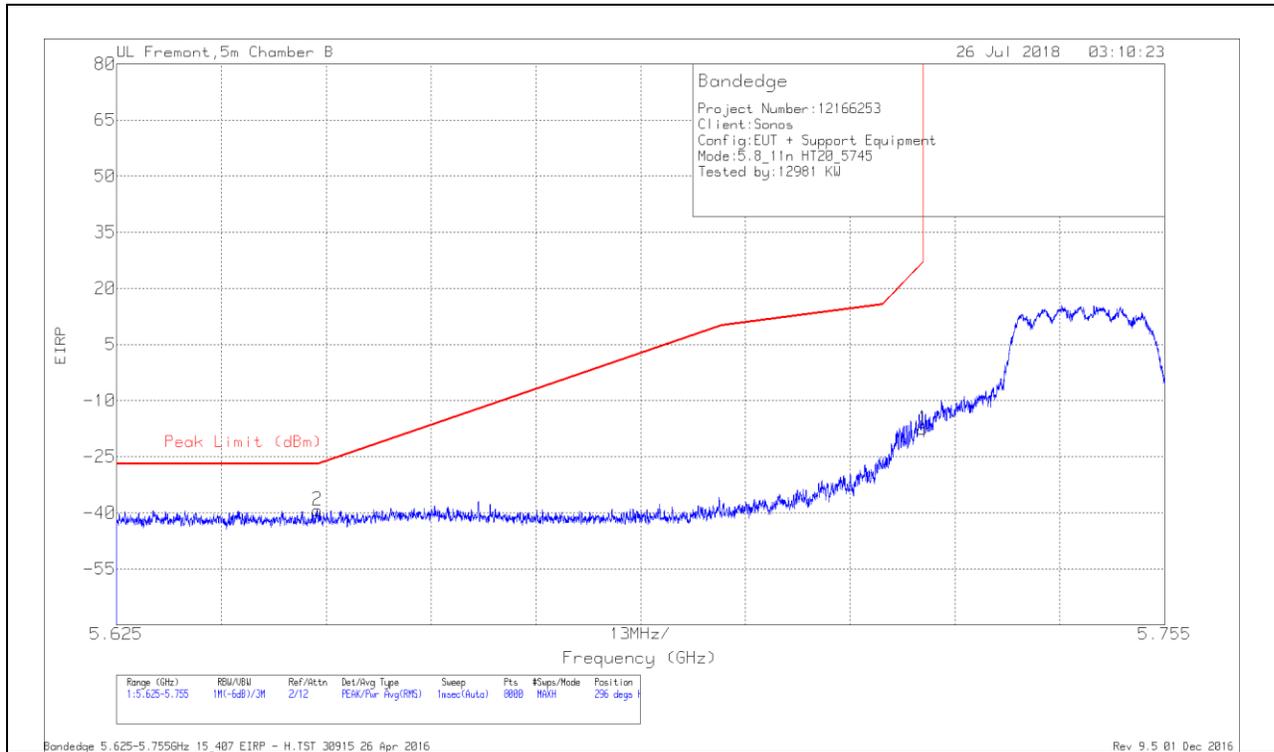
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	51.7	Pk	35.5	-20	67.2	68.2	-1	126	188	V
2	5.725	51.1	Pk	35.5	-20	66.6	68.2	-1.6	126	188	V

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

**9.1.8. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

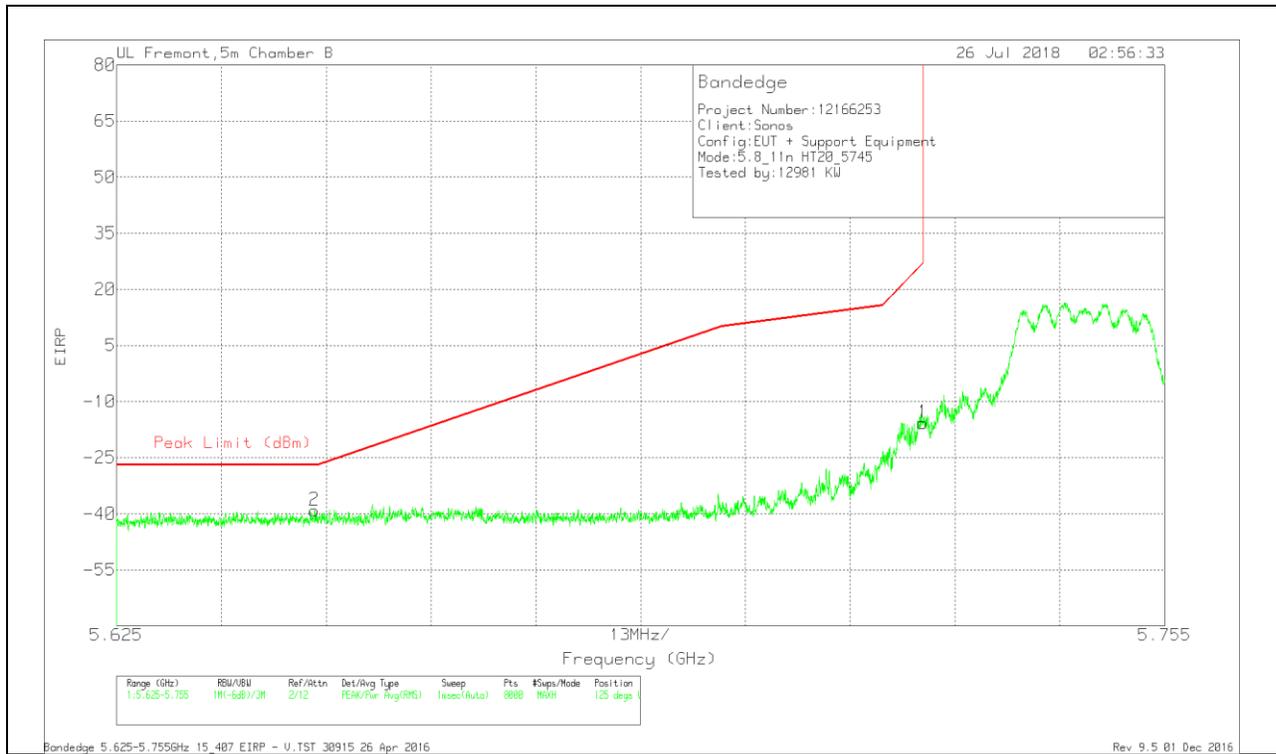


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-66.56	Pk	35.5	-20	11.8	-39.26	-27	-12.26	296	149	H
1	5.725	-44.79	Pk	35.5	-20	11.8	-17.49	27	-44.49	296	149	H

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

Pk - Peak detector

### VERTICAL RESULT

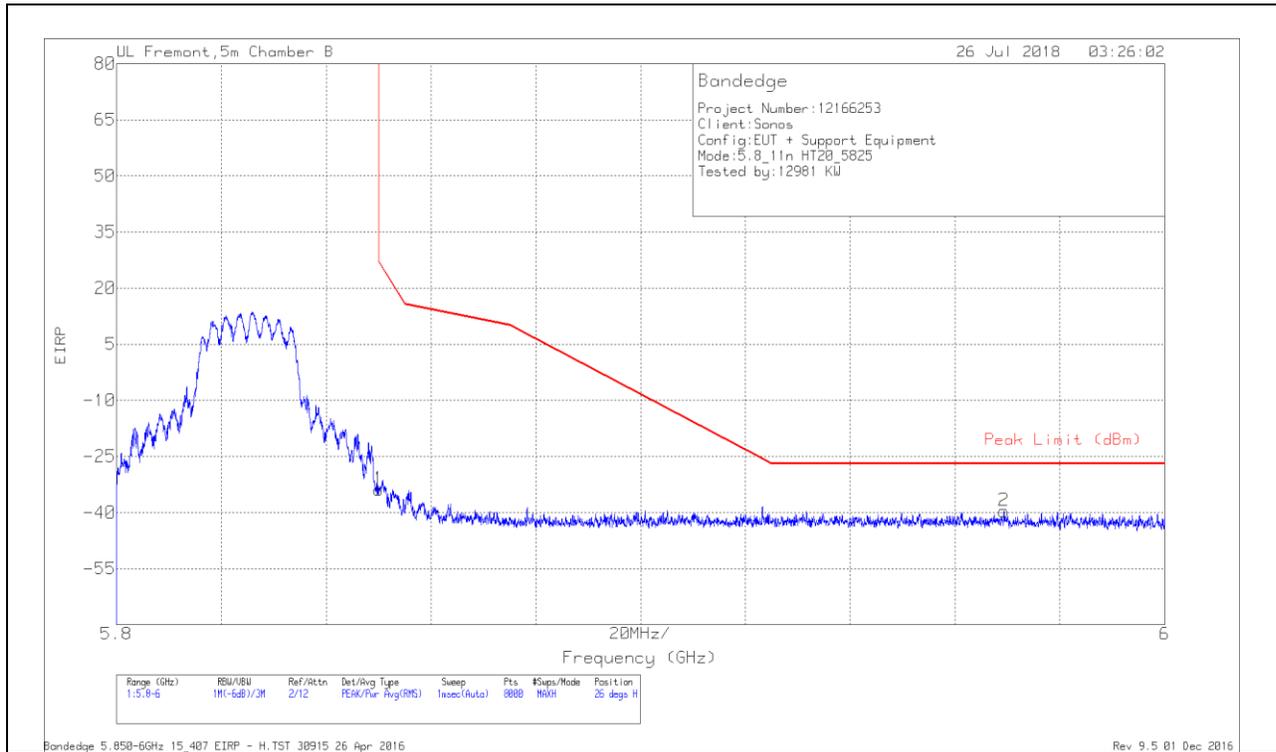


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-66.27	Pk	35.5	-20.1	11.8	-39.07	-27	-12.07	125	266	V
1	5.725	-43	PK	35.5	-20	11.8	-15.7	27	-42.7	125	266	V

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

### BANDEDGE (HIGH CHANNEL)

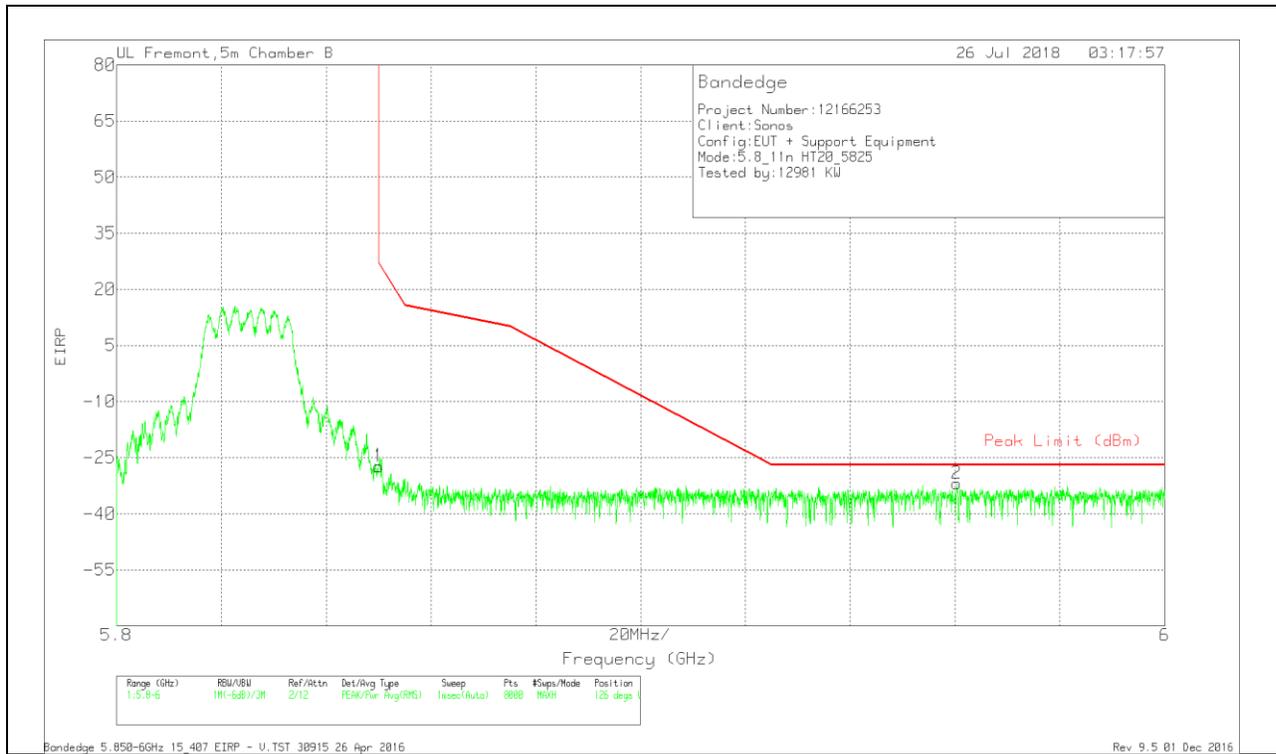
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-61.03	PK	35.4	-20	11.8	-33.83	26.99	-60.82	26	270	H
2	5.969	-67.18	PK	35.4	-19.6	11.8	-39.58	-27	-12.58	26	270	H

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

### VERTICAL RESULT

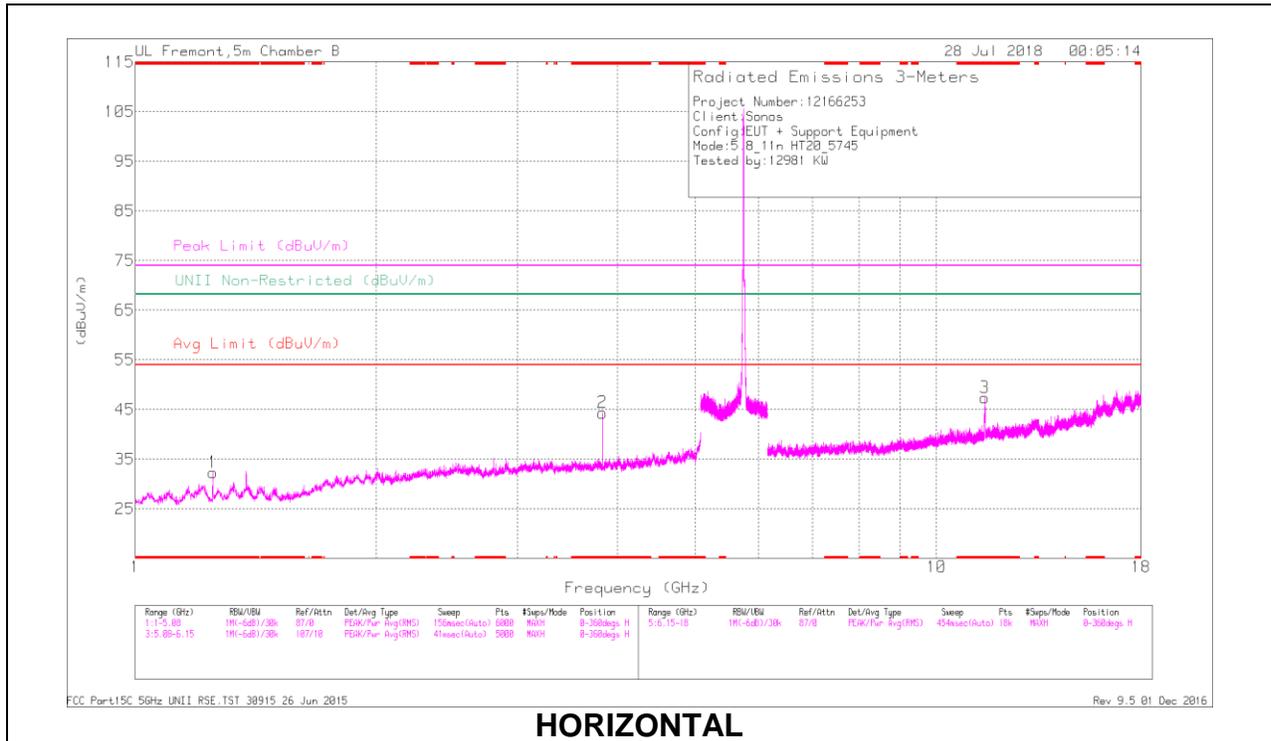


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-54.53	Pk	35.4	-20	11.8	-27.33	26.99	-54.32	126	251	V
2	5.96	-59.52	PK	35.4	-19.6	11.8	-31.92	-27	-4.92	126	251	V

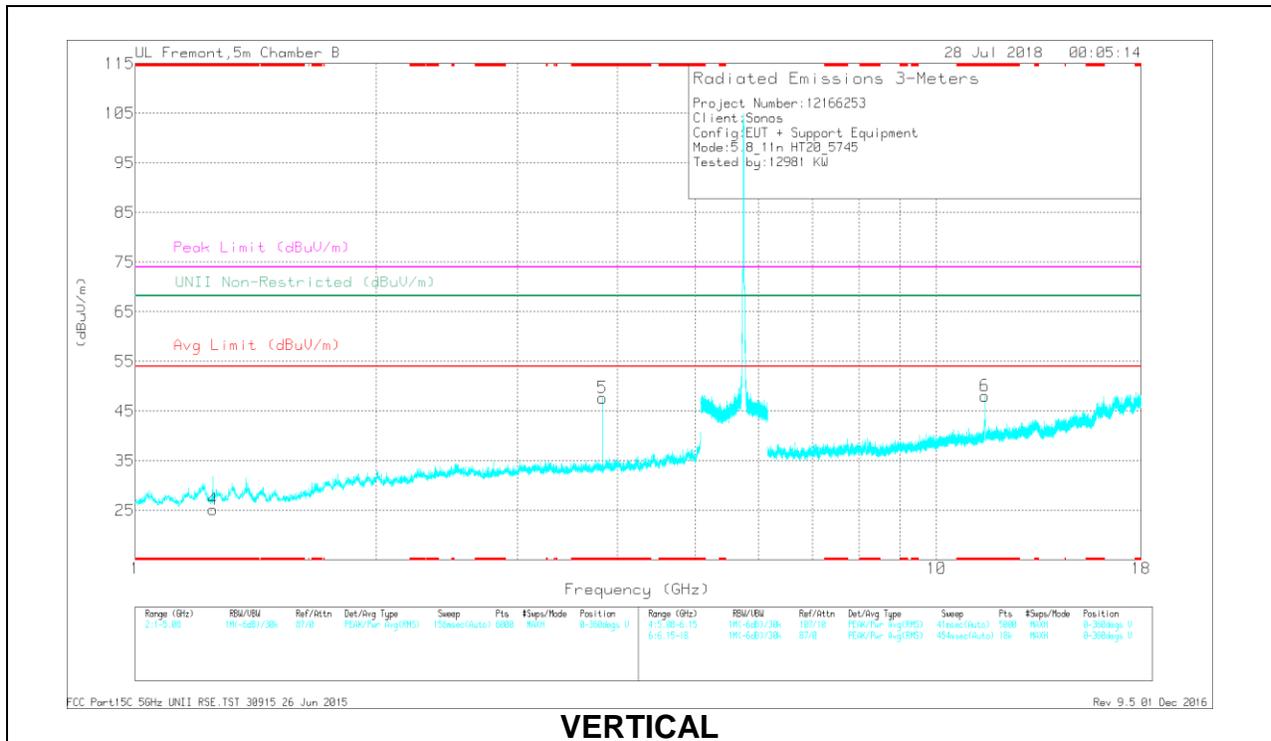
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

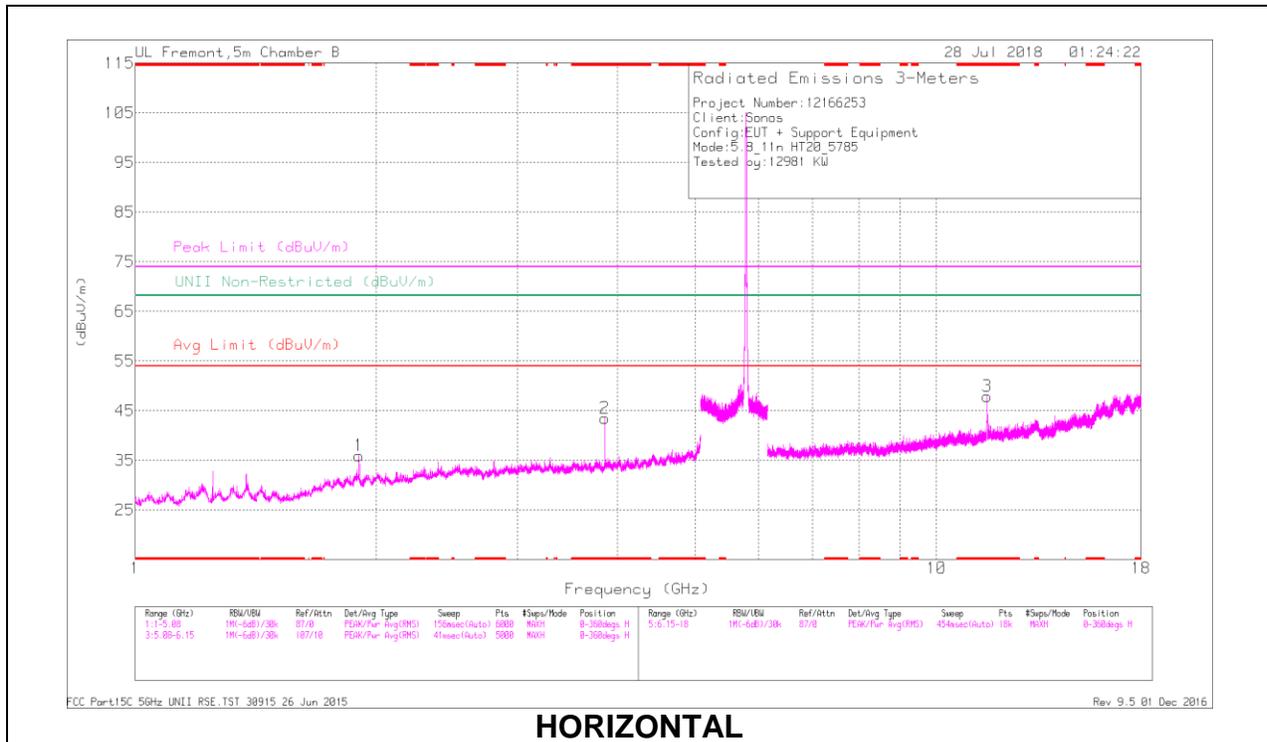
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	AmpCblFtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.25	42.1	PK-U	28.3	-34.9	0	35.5	-	-	74	-38.5	-	-	286	128	H
* 1.25	32.1	ADR	28.3	-35	.32	25.72	54	-28.28	-	-	-	-	286	128	H
* 3.83	40.58	PK-U	33.4	-32	0	41.98	-	-	74	-32.02	-	-	264	156	H
* 3.83	31.17	ADR	33.4	-32	.32	32.89	54	-21.11	-	-	-	-	264	156	H
* 1.25	42.87	PK-U	28.3	-35	0	36.17	-	-	74	-37.83	-	-	250	141	V
* 1.25	33.73	ADR	28.3	-34.9	.32	27.45	54	-26.55	-	-	-	-	250	141	V
* 3.83	41.61	PK-U	33.4	-32	0	43.01	-	-	74	-30.99	-	-	104	265	V
* 3.83	33.78	ADR	33.4	-32	.32	35.5	54	-18.5	-	-	-	-	104	265	V
* 11.492	33.44	PK-U	38.4	-24.6	0	47.24	-	-	74	-26.76	-	-	21	137	H
* 11.49	20.93	ADR	38.4	-24.6	.32	35.05	54	-18.95	-	-	-	-	21	137	H
* 11.489	33.2	PK-U	38.4	-24.6	0	47	-	-	74	-27	-	-	49	171	V
* 11.488	20.79	ADR	38.4	-24.6	.32	34.91	54	-19.09	-	-	-	-	49	171	V

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

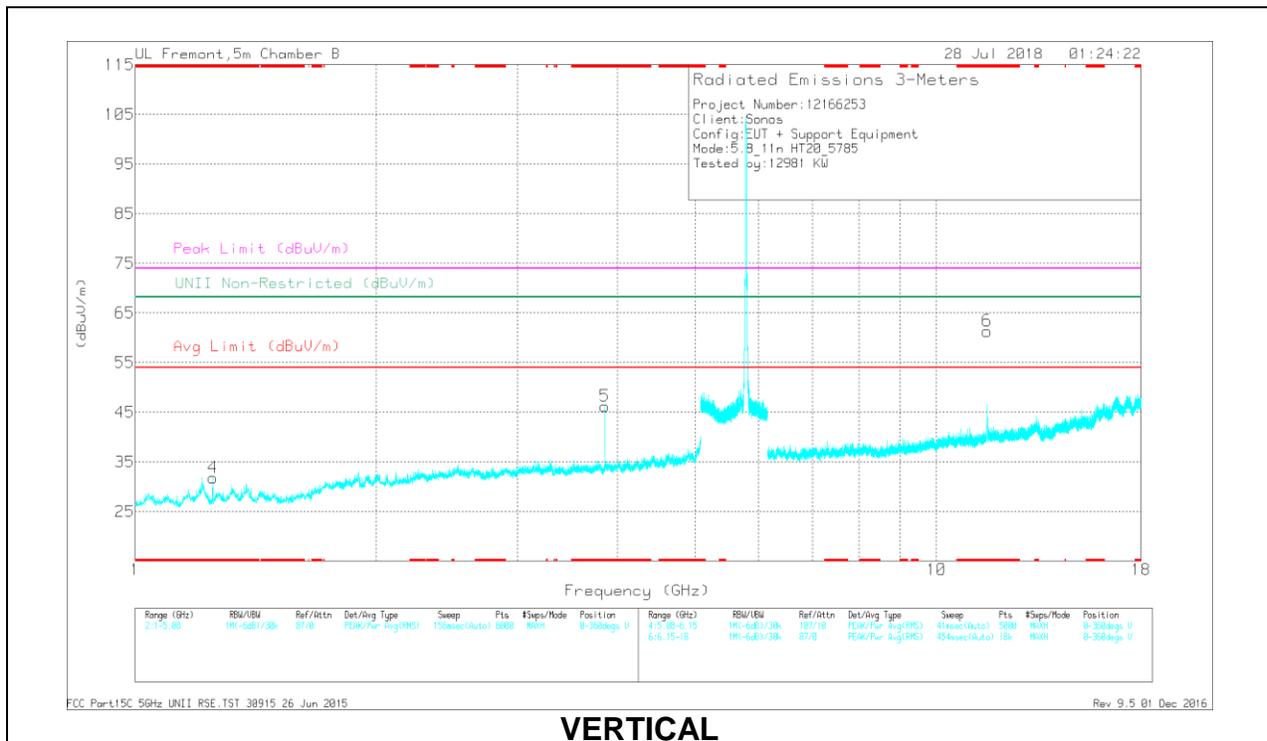
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

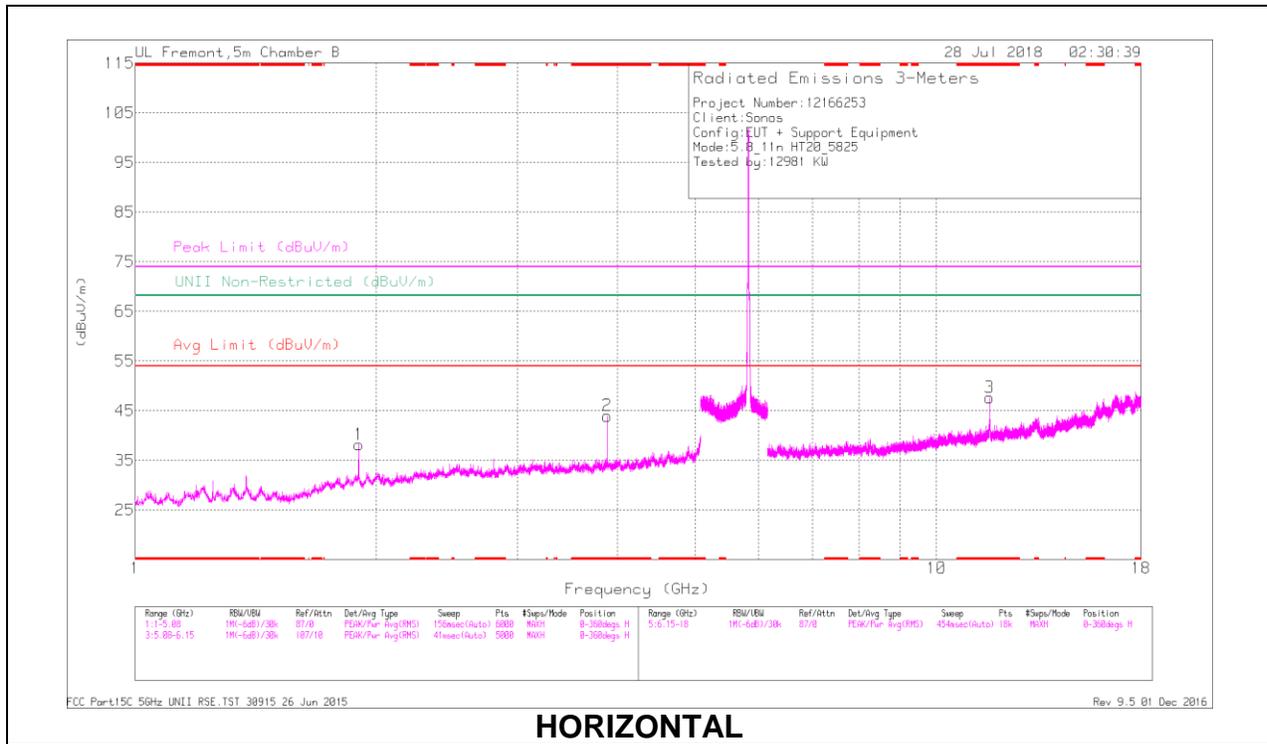
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	AmpCblFtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.857	46.75	PK-U	33.4	-31.8	0	48.35	-	-	74	-25.65	-	-	27	205	H
* 3.857	42.48	ADR	33.4	-31.8	.32	44.4	54	-9.6	-	-	-	-	27	205	H
* 3.857	49.04	PK-U	33.4	-31.8	0	50.64	-	-	74	-23.36	-	-	200	227	V
* 3.857	46.04	ADR	33.4	-31.8	.32	47.96	54	-6.04	-	-	-	-	200	227	V
* 1.251	41.1	PK-U	28.3	-34.9	0	34.5	-	-	74	-39.5	-	-	53	148	V
* 1.25	30.41	ADR	28.3	-34.9	.32	24.13	54	-29.67	-	-	-	-	53	148	V
* 11.571	40.66	PK-U	38.6	-23.9	0	55.36	-	-	74	-18.64	-	-	66	124	H
* 11.571	29.42	ADR	38.6	-23.9	.32	44.44	54	-9.56	-	-	-	-	66	124	H
* 11.571	40.19	PK-U	38.6	-23.9	0	54.89	-	-	74	-19.11	-	-	18	140	V
* 11.571	30.18	ADR	38.6	-23.9	.32	45.2	54	-8.8	-	-	-	-	18	140	V
1.901	45.65	PK-U	31.1	-33.2	0	43.55	-	-	-	-	68.2	-24.65	104	164	H

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

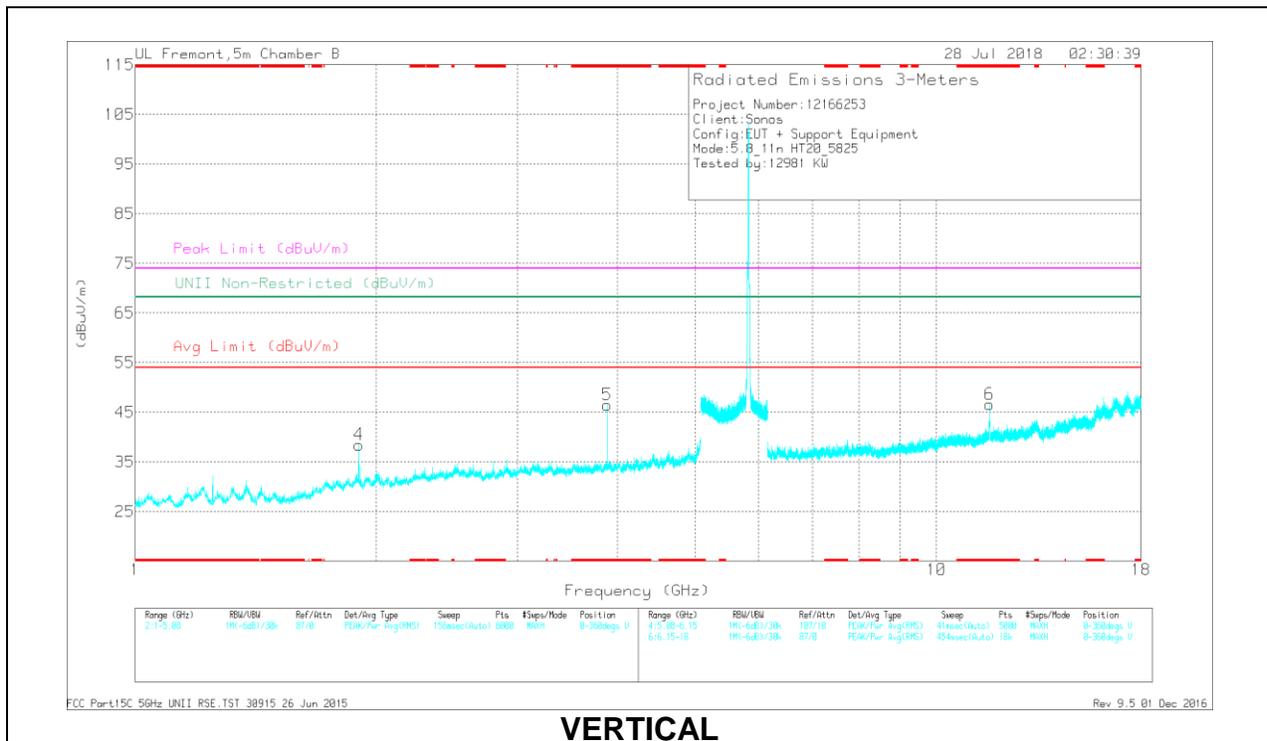
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	AmpCblFilt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.883	41.4	PK-U	33.4	-31.4	0	43.4	-	-	74	-30.6	-	-	211	109	H
* 3.883	32.85	ADR	33.4	-31.4	.32	35.17	54	-18.83	-	-	-	-	211	109	H
* 3.883	42.24	PK-U	33.4	-31.4	0	44.24	-	-	74	-29.76	-	-	104	272	V
* 3.883	35.12	ADR	33.4	-31.4	.32	37.44	54	-16.56	-	-	-	-	104	272	V
* 11.65	32.23	PK-U	38.8	-23.9	0	47.13	-	-	74	-26.87	-	-	122	175	H
* 11.651	19.86	ADR	38.8	-23.9	.32	35.08	54	-18.92	-	-	-	-	122	175	H
* 11.65	32.37	PK-U	38.8	-23.9	0	47.27	-	-	74	-26.73	-	-	145	192	V
* 11.653	20.73	ADR	38.8	-24	.32	35.85	54	-18.15	-	-	-	-	145	192	V
1.9	40.83	PK-U	31.1	-33.3	0	38.63	-	-	-	-	68.2	-29.57	111	305	H
1.901	41.02	PK-U	31.1	-33.2	0	38.92	-	-	-	-	68.2	-29.28	18	266	V

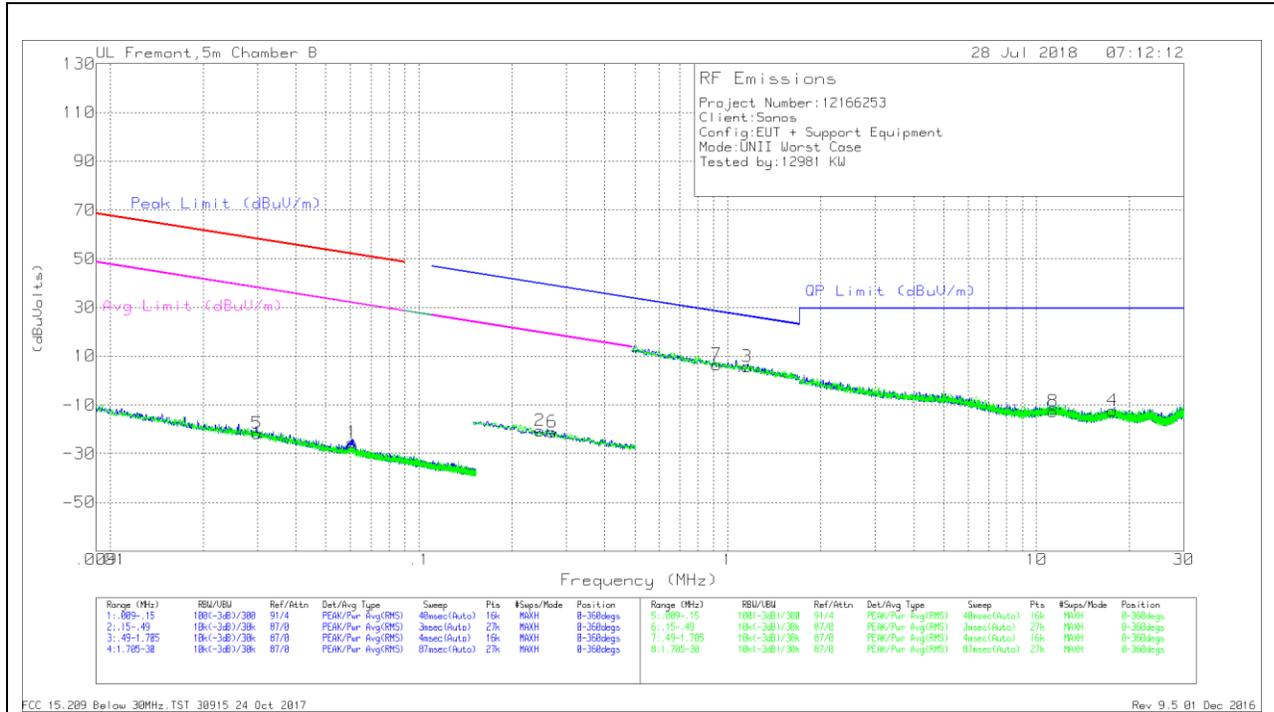
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.2. Worst Case Below 30 MHz

### SPURIOUS EMISSIONS 9 kHz TO 30 MHz (WORST-CASE CONFIGURATION)



NOTE: KDB 414788 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

### Below 30 MHz Data

#### Trace Markers

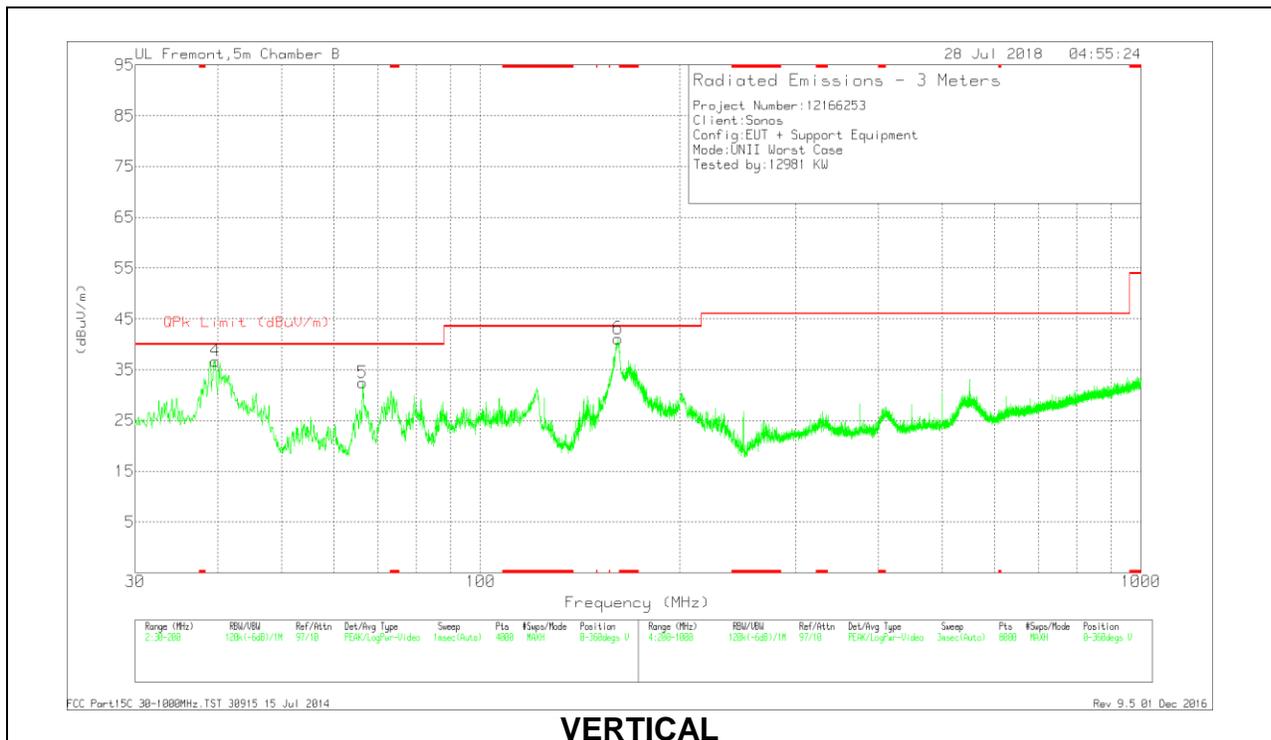
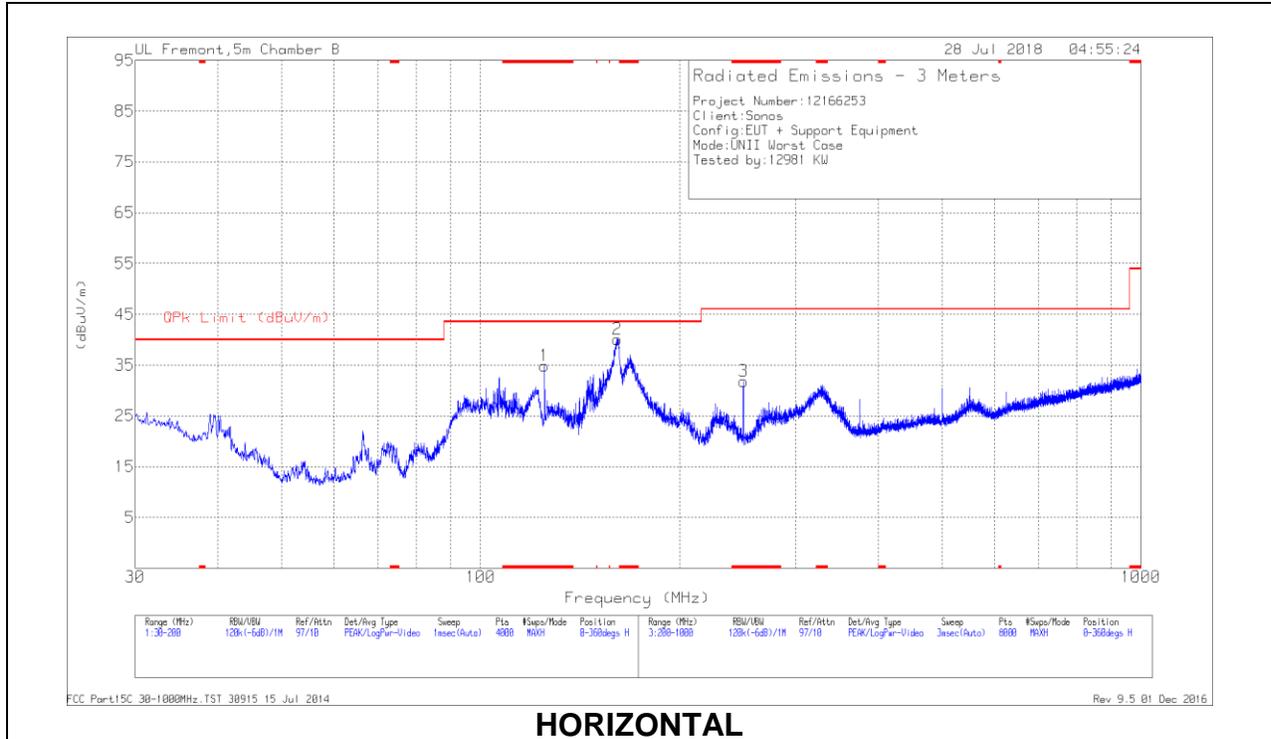
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.02987	41.54	Pk	15.5	1.4	-80	-21.56	58.08	-79.64	38.08	-59.64	0-360
1	.06085	38.58	Pk	14.5	1.4	-80	-25.52	51.9	-77.42	31.9	-57.42	0-360
2	.24634	43.93	Pk	13.9	1.5	-80	-20.67	39.78	-60.45	19.78	-40.45	0-360
6	.27001	43.48	Pk	13.8	1.5	-80	-21.22	38.99	-60.21	18.99	-40.21	0-360

#### Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	.91951	30.86	Pk	14.1	1.5	-40	6.46	28.35	-21.89	0-360
3	1.15447	29.85	Pk	14.3	1.5	-40	5.65	26.38	-20.73	0-360
8	11.3073	11.12	Pk	14.7	1.6	-40	-12.58	29.5	-42.08	0-360
4	17.63041	11.44	Pk	14.6	1.6	-40	-12.36	29.5	-41.86	0-360

#### Pk - Peak detector

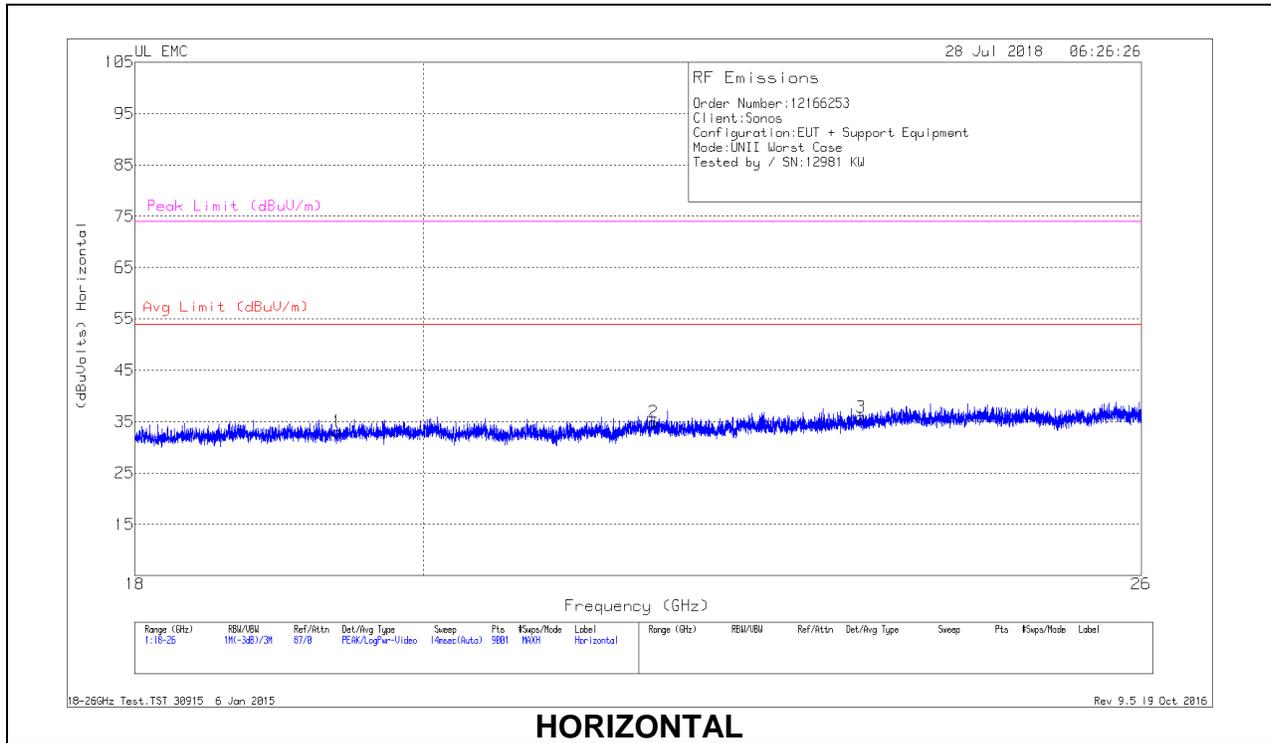
### 9.3. Worst Case Below 1 GHz



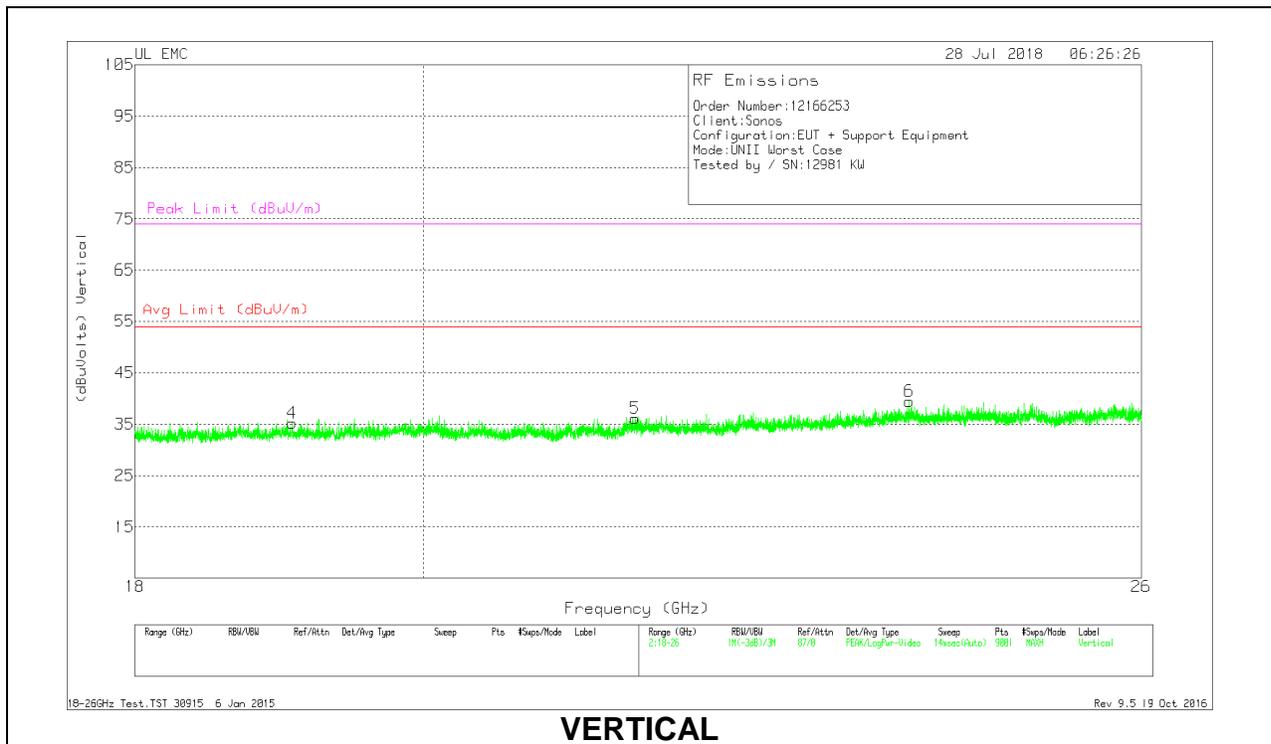
**Below 1GHz DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 125.0121	44.69	Pk	17.9	-27.7	34.89	43.52	-8.63	0-360	200	H
3	* 250.0065	42.63	Pk	15.5	-26.3	31.83	46.02	-14.19	0-360	100	H
4	39.65	47.21	Pk	18.2	-28.7	36.71	40	-3.29	0-360	100	V
5	66.3044	48.62	Pk	12.1	-28.3	32.42	40	-7.58	0-360	100	V
2	161.2315	51.12	Pk	16.2	-27.2	40.12	43.52	-3.4	0-360	200	H
6	161.4865	52.15	Pk	16.2	-27.2	41.15	43.52	-2.37	0-360	100	V

### 9.4. Worst Case 18-26 GHz



**HORIZONTAL**

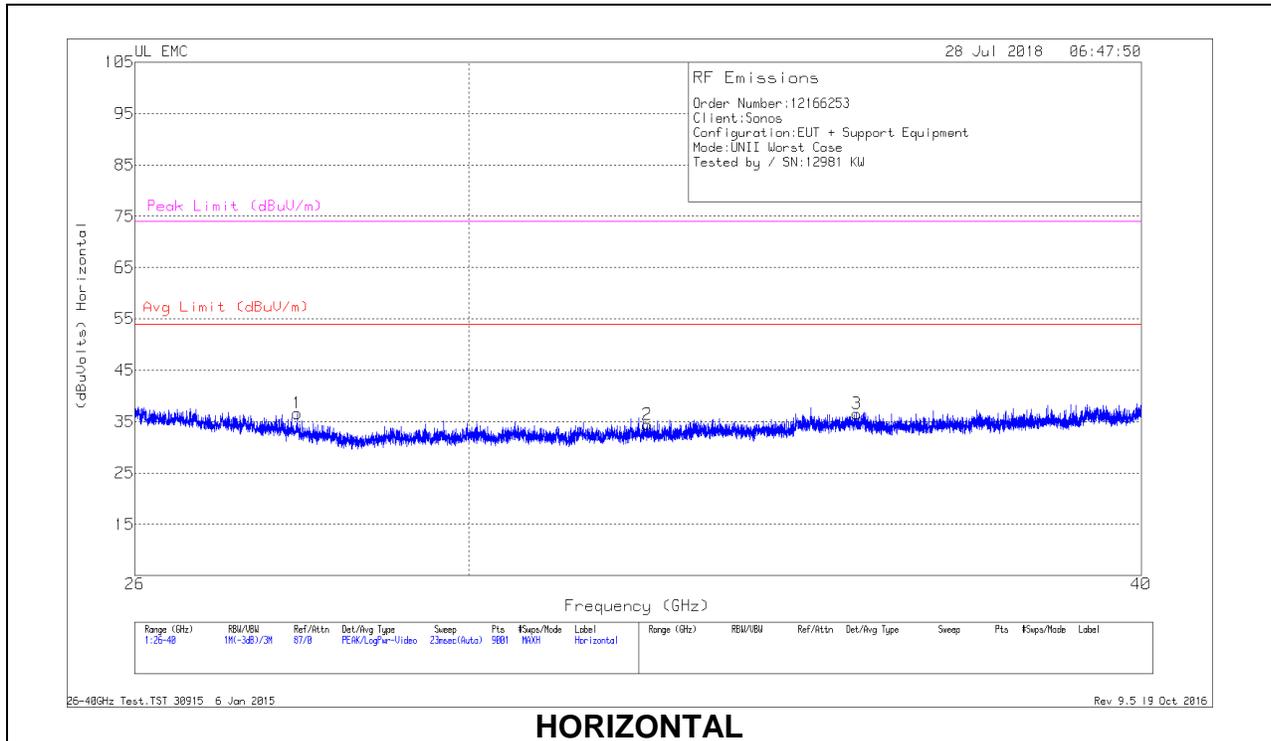


**VERTICAL**

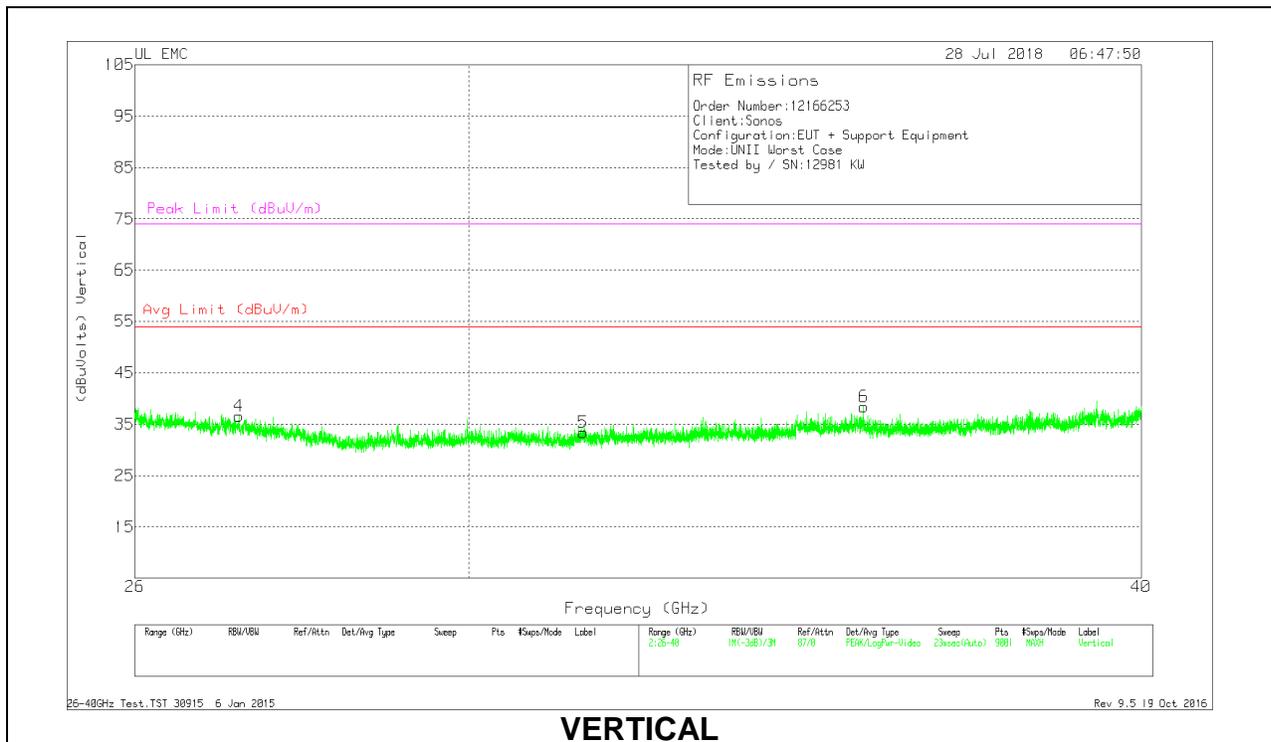
**18 – 26GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.38	35.25	Pk	32.4	-25.1	-9.5	33.05	54	-20.95	74	-40.95
2	21.756	36.07	Pk	33.3	-25	-9.5	34.87	54	-19.13	74	-39.13
3	23.469	36.65	Pk	33.2	-24.5	-9.5	35.85	54	-18.15	74	-38.15
4	19.065	37.49	Pk	32.2	-25	-9.5	35.19	54	-18.81	74	-38.81
5	21.61	37.82	Pk	33.1	-25.3	-9.5	36.12	54	-17.88	74	-37.88
6	23.886	39.57	Pk	33.5	-24.1	-9.5	39.47	54	-14.53	74	-34.53

### 9.5. Worst Case 26-40 GHz



**HORIZONTAL**



**VERTICAL**

**26 – 40GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.87	41.72	Pk	35.8	-31.4	-9.5	36.62	54	-17.38	74	-37.38
2	32.378	40.3	Pk	36.3	-32.7	-9.5	34.4	54	-19.6	74	-39.6
3	35.413	41.52	Pk	37.8	-33.3	-9.5	36.52	54	-17.48	74	-37.48
4	27.182	41.26	Pk	35.6	-30.8	-9.5	36.56	54	-17.44	74	-37.44
5	31.496	39.67	Pk	36.2	-33	-9.5	33.37	54	-20.63	74	-40.63
6	35.52	43.38	Pk	37.9	-33.4	-9.5	38.38	54	-15.62	74	-35.62

## 10. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

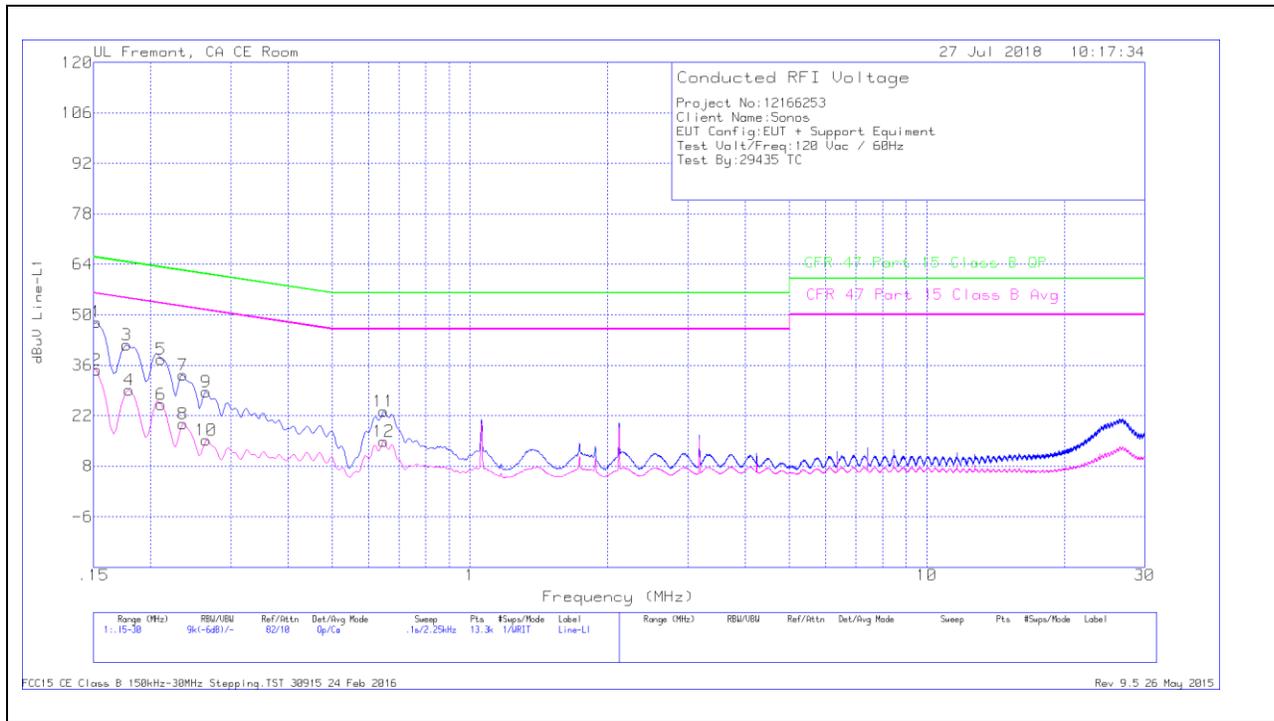
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

### LINE 1 RESULTS

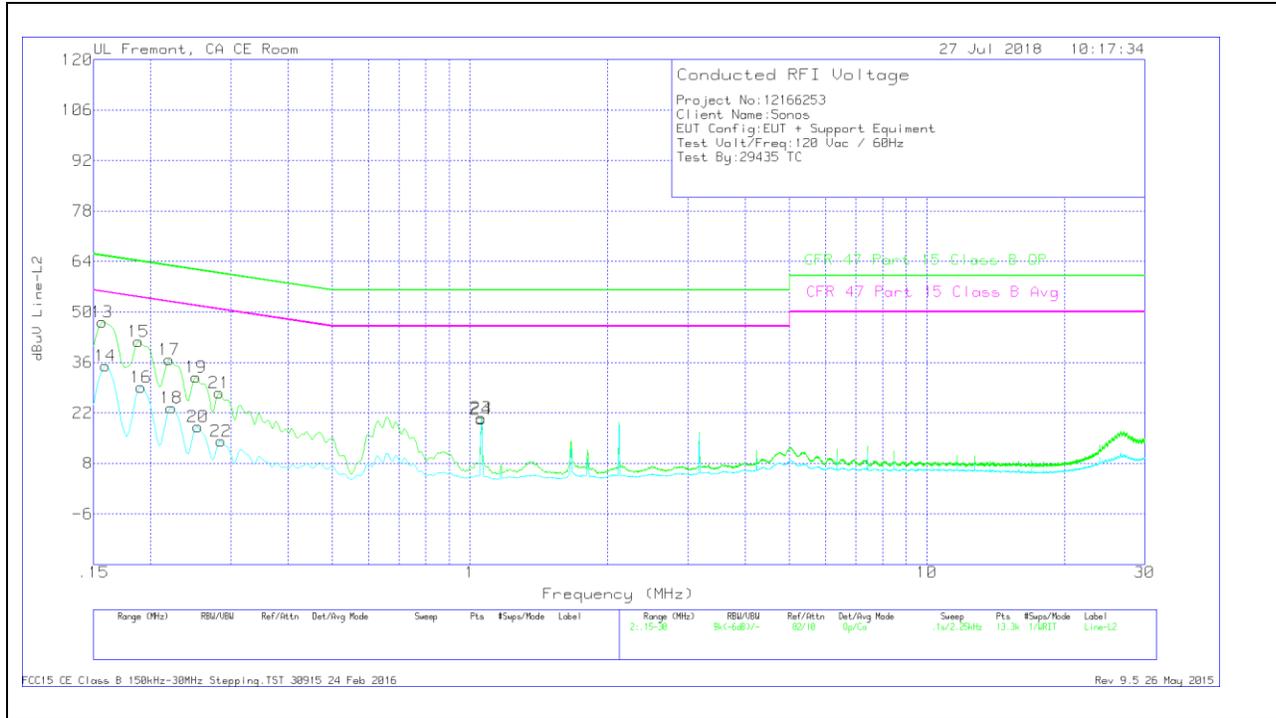


### Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15225	37.8	Qp	.1	0	10.1	48	65.88	-17.88	-	-
2	.15225	24.54	Ca	.1	0	10.1	34.74	-	-	55.88	-21.14
3	.177	31.49	Qp	0	0	10.1	41.59	64.63	-23.04	-	-
4	.17925	19.05	Ca	0	0	10.1	29.15	-	-	54.52	-25.37
5	.21075	27.61	Qp	0	0	10.1	37.71	63.18	-25.47	-	-
6	.21075	15.04	Ca	0	0	10.1	25.14	-	-	53.18	-28.04
7	.2355	23.22	Qp	0	0	10.1	33.32	62.25	-28.93	-	-
8	.2355	9.6	Ca	0	0	10.1	19.7	-	-	52.25	-32.55
9	.26475	18.51	Qp	0	0	10.1	28.61	61.28	-32.67	-	-
10	.26475	5.08	Ca	0	0	10.1	15.18	-	-	51.28	-36.1
11	.64725	13.09	Qp	0	0	10.1	23.19	56	-32.81	-	-
12	.64725	4.85	Ca	0	0	10.1	14.95	-	-	46	-31.05

Qp - Quasi-Peak detector  
 Ca - CISPR average detection

**LINE 2 RESULTS**



**Trace Markers**

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15675	37.08	Qp	.1	0	10.1	47.28	65.63	-18.35	-	-
14	.159	24.83	Ca	.1	0	10.1	35.03	-	-	55.52	-20.49
15	.18825	31.75	Qp	0	0	10.1	41.85	64.11	-22.26	-	-
16	.1905	19.04	Ca	0	0	10.1	29.14	-	-	54.01	-24.87
17	.21975	26.63	Qp	0	0	10.1	36.73	62.83	-26.1	-	-
18	.222	13.29	Ca	0	0	10.1	23.39	-	-	52.74	-29.35
19	.25125	21.86	Qp	0	0	10.1	31.96	61.72	-29.76	-	-
20	.2535	8.03	Ca	0	0	10.1	18.13	-	-	51.64	-33.51
21	.28275	17.41	Qp	0	0	10.1	27.51	60.73	-33.22	-	-
22	.285	4.1	Ca	0	0	10.1	14.2	-	-	50.67	-36.47
23	1.059	10.47	Qp	0	.1	10.1	20.67	56	-35.33	-	-
24	1.059	10.06	Ca	0	.1	10.1	20.26	-	-	46	-25.74

Qp - Quasi-Peak detector  
 Ca - CISPR average detection