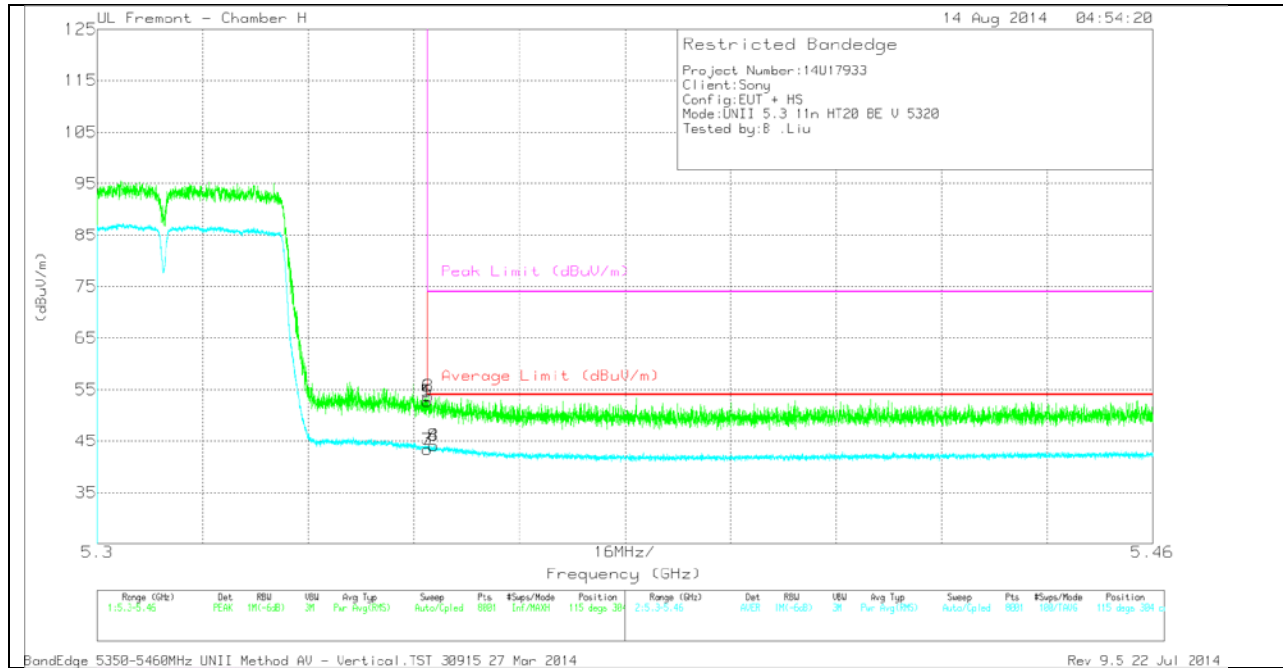


**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/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	40.5	PK	34.9	-22.7	0	52.7	-	-	74	-21.3	115	304	V
2	* 5.35	41.52	PK	34.9	-22.7	0	53.72	-	-	74	-20.28	115	304	V
5	* 5.35	40.5	PK	34.9	-22.7	0	52.7	-	-	74	-21.3	115	304	V
6	* 5.35	41.52	PK	34.9	-22.7	0	53.72	-	-	74	-20.28	115	304	V
3	* 5.35	30.93	RMS	34.9	-22.7	0	43.13	54	-10.87	-	-	115	304	V
4	* 5.351	31.69	RMS	34.9	-22.7	0	43.89	54	10.11	-	-	115	304	V

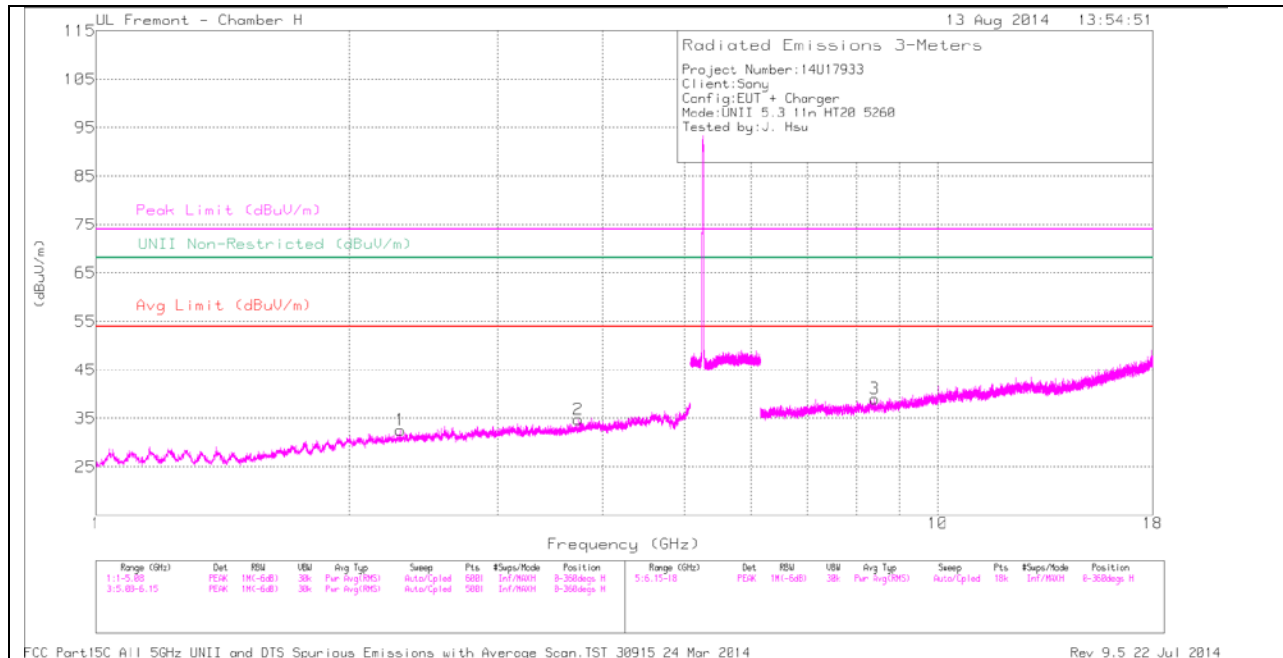
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

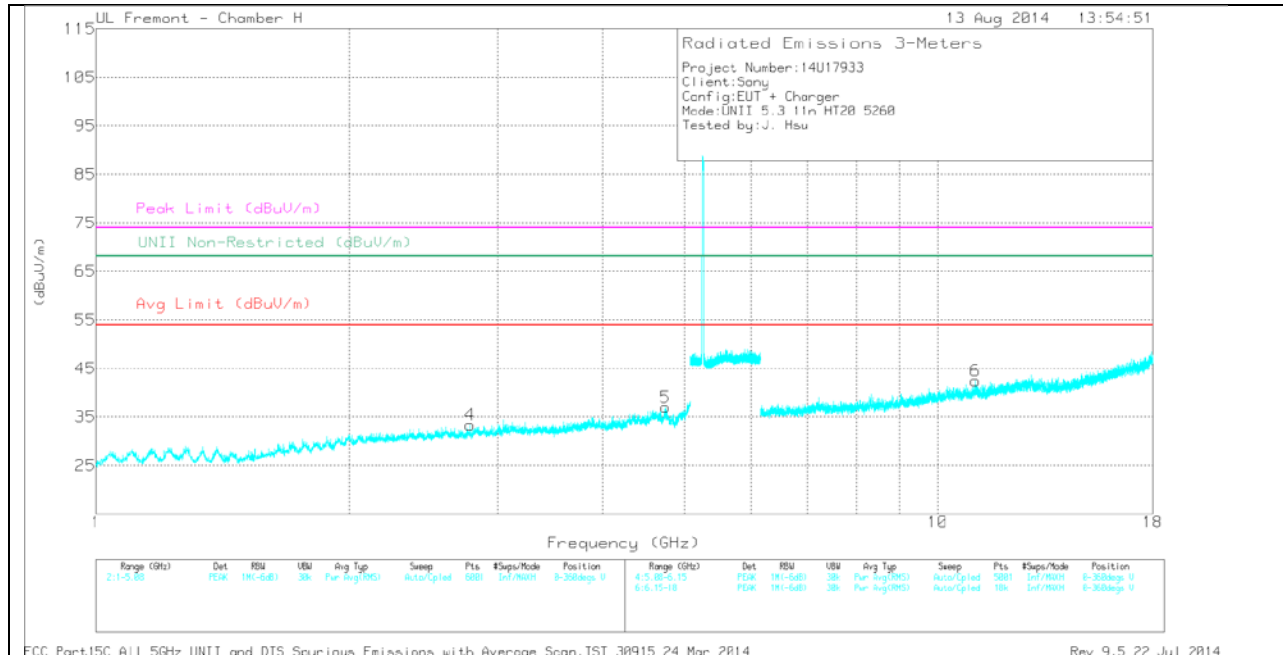
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr /Pad (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	* 2.297	34.78	PK	31.8	-34	32.58	-	-	74	-41.42	-	-	0-360	201	H
2	* 3.74	34.64	PK	33.2	-33.1	34.74	-	-	74	-39.26	-	-	0-360	201	H
4	* 2.782	34.72	PK	32.4	-33.7	33.42	-	-	74	-40.58	-	-	0-360	201	V
5	* 4.749	34.53	PK	34.3	-31.8	37.03	-	-	74	-36.97	-	-	0-360	100	V
3	* 8.411	31.91	PK	36.1	-28.9	39.11	-	-	74	-34.89	-	-	0-360	100	H
6	* 11.089	29.65	PK	37.8	-25	42.45	-	-	74	-31.55	-	-	0-360	201	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

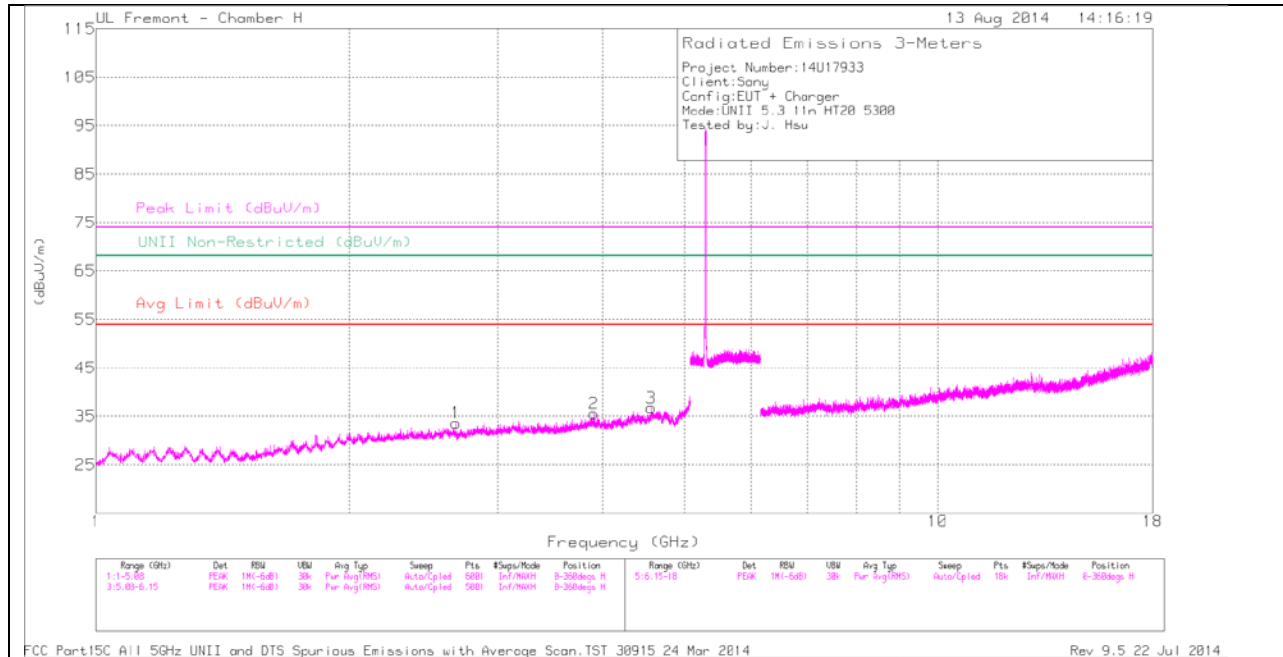
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.749	41.04	PK1	34.3	-31.8	43.54	-	-	74	-30.46	-	-	360	100	V
* 4.748	30.04	AD1	34.3	-31.8	32.54	54	-21.46	-	-	-	-	360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

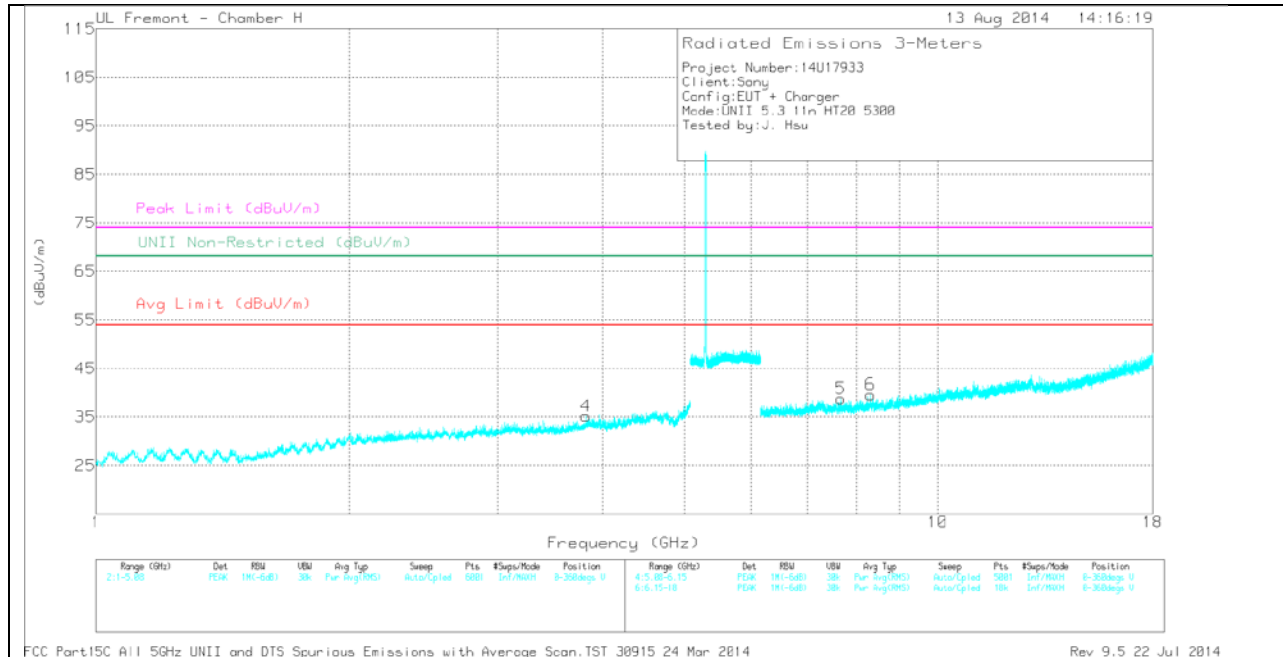
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr /Pad (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	* 2.676	35.47	PK	32.3	-34.1	33.67	-	-	74	-40.33	-	-	0-360	100	H
2	* 3.905	35.13	PK	33.4	-33	35.53	-	-	74	-38.47	-	-	0-360	201	H
3	* 4.565	34.36	PK	34.1	-31.7	36.76	-	-	74	-37.24	-	-	0-360	201	H
4	* 3.817	34.54	PK	33.3	-32.7	35.14	-	-	74	-38.86	-	-	0-360	201	V
5	* 7.667	32.31	PK	36.1	-29.6	38.81	-	-	74	-35.19	-	-	0-360	100	V
6	* 8.309	30.66	PK	36.1	-27.1	39.66	-	-	74	-34.34	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

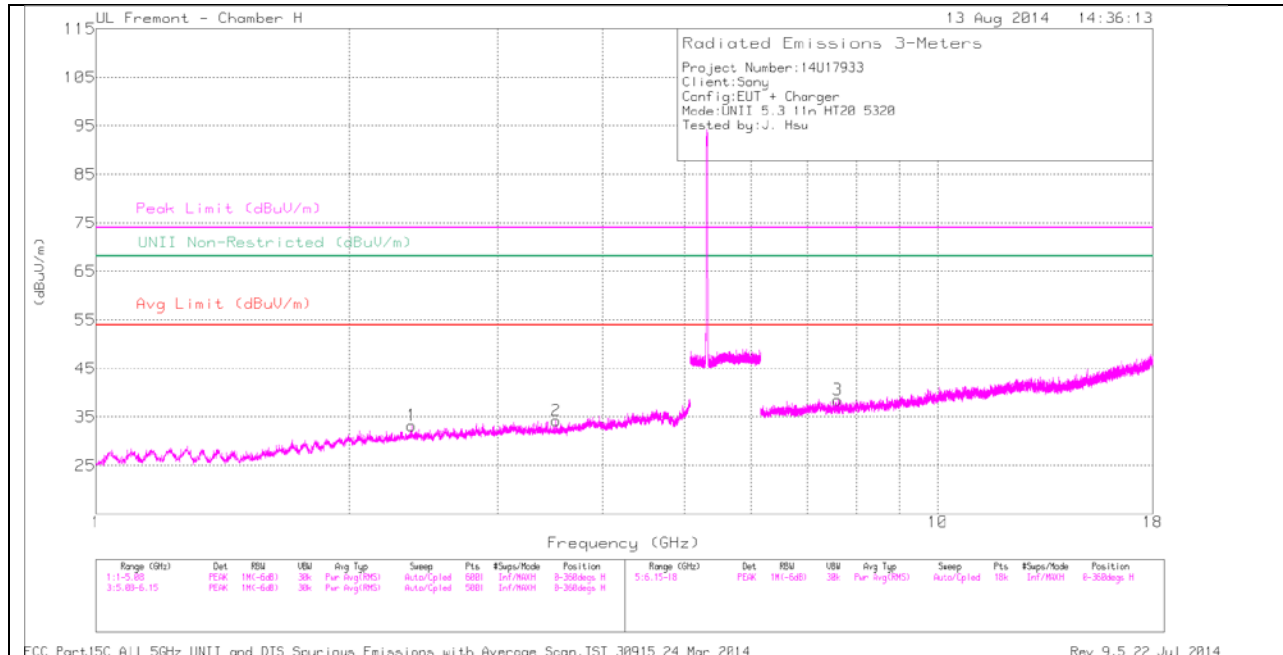
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 8.309	38.2	PK1	36.1	-27.1	47.2	-	-	74	-26.8	-	-	360	100	V
* 8.31	26.78	AD1	36.1	-27.1	35.78	54	-18.22	-	-	-	-	360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

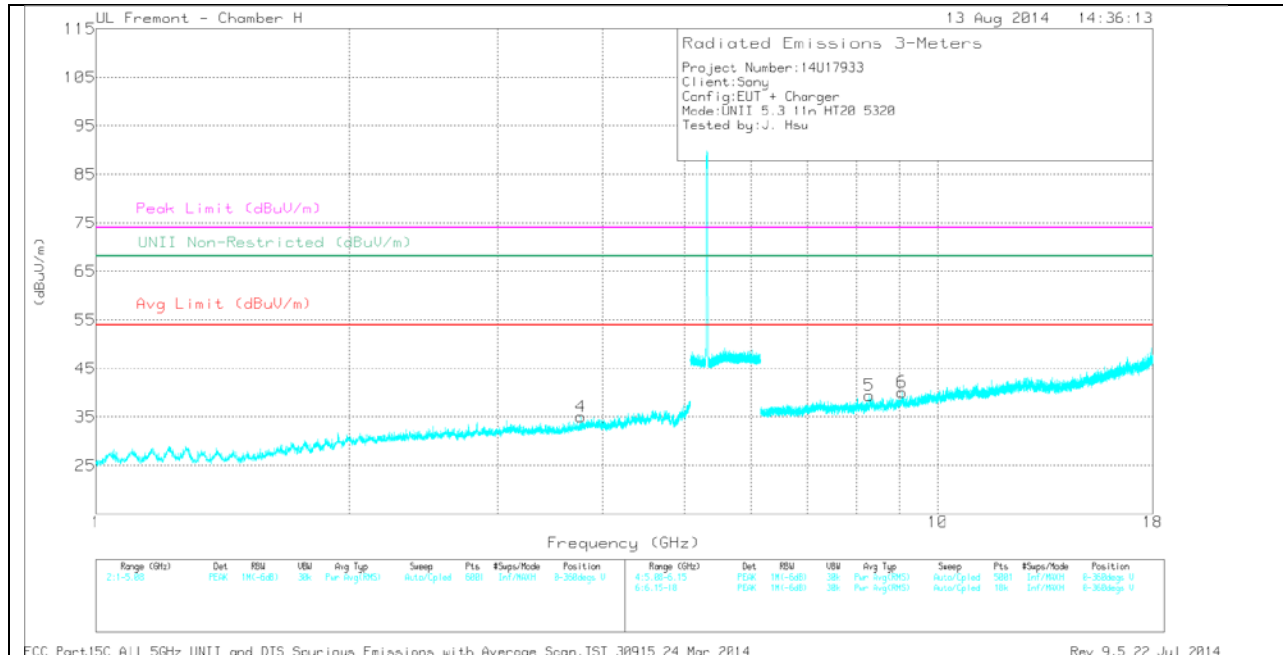
**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



**HIGH CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (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	* 2.368	35.18	PK	31.9	-33.9	33.18	-	-	74	-40.82	-	-	0-360	100	H
2	* 3.521	34.84	PK	32.8	-33.4	34.24	-	-	74	-39.76	-	-	0-360	100	H
4	* 3.764	34.98	PK	33.2	-33.1	35.08	-	-	74	-38.92	-	-	0-360	100	V
3	* 7.607	32	PK	36.1	-29.5	38.6	-	-	74	-35.4	-	-	0-360	100	H
5	* 8.293	30.9	PK	36.1	-27.5	39.5	-	-	74	-34.5	-	-	0-360	100	V
6	* 9.069	30.59	PK	36.5	-27	40.09	-	-	74	-33.91	-	-	0-360	201	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (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
* 3.764	42.41	PK1	33.2	-33.1	42.51	-	-	74	-31.49	-	-	360	100	V
* 3.764	31.11	AD1	33.2	-33.1	31.21	54	-22.79	-	-	-	-	360	100	V

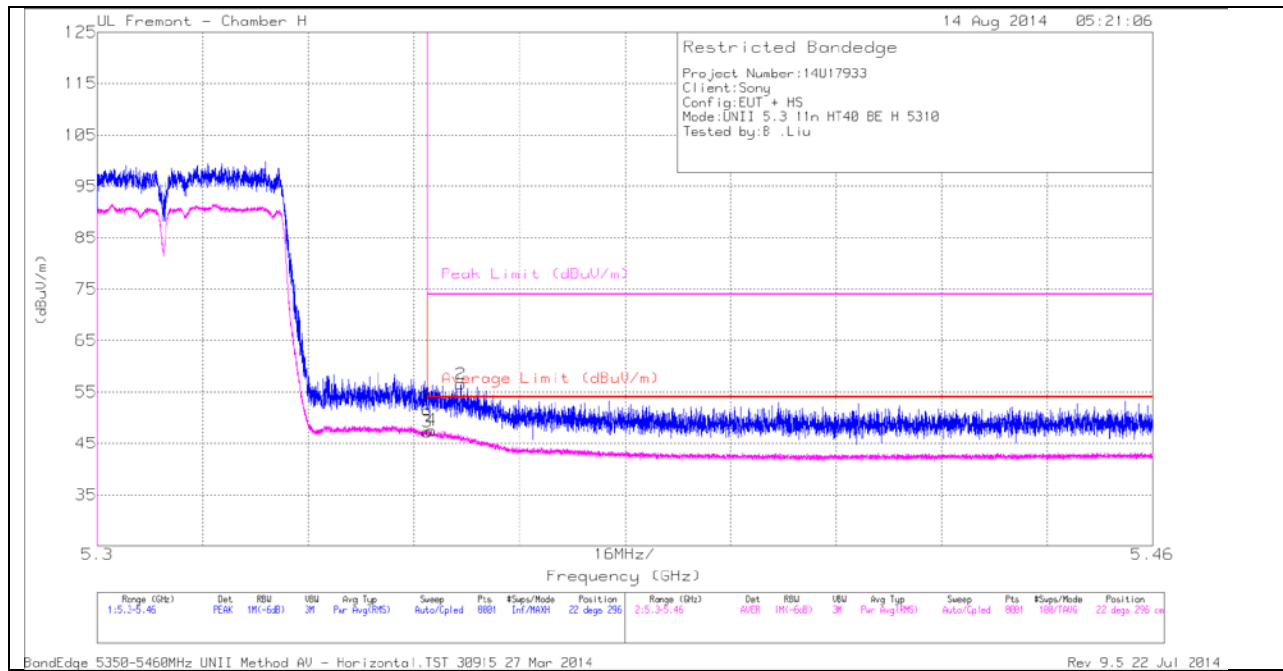
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 11.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

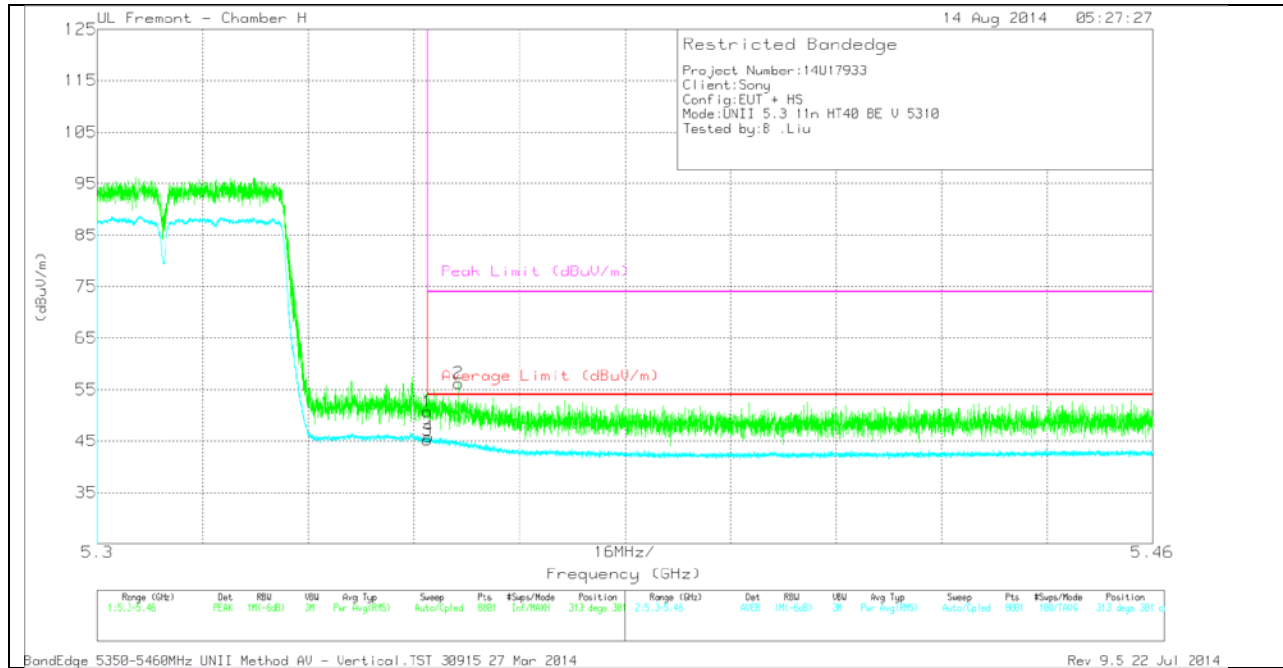
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.24	PK	34.9	-22.7	0	51.44	-	-	74	-22.56	22	296	H
3	* 5.35	34.61	RMS	34.9	-22.7	.13	46.94	54	-7.06	-	-	22	296	H
4	* 5.351	34.84	RMS	34.9	-22.7	.13	47.17	54	-6.83	-	-	22	296	H
2	* 5.355	44.36	PK	34.9	-22.7	0	56.56	-	-	74	-17.44	22	296	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/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	38.51	PK	34.9	-22.7	0	50.71	-	-	74	-23.29	313	301	V
3	* 5.35	32.5	RMS	34.9	-22.7	.13	44.83	54	-9.17	-	-	313	301	V
4	* 5.35	33.11	RMS	34.9	-22.7	.13	45.44	54	-8.56	-	-	313	301	V
2	* 5.355	44.04	PK	34.9	-22.7	0	56.24	-	-	74	-17.76	313	301	V

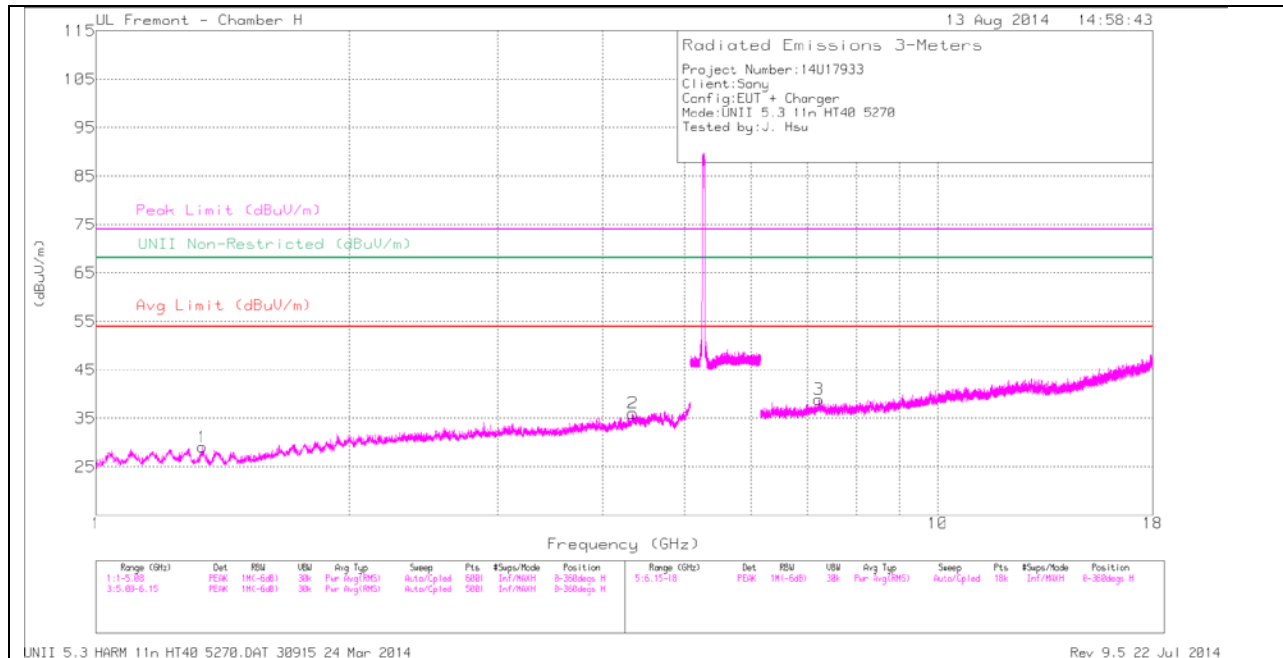
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

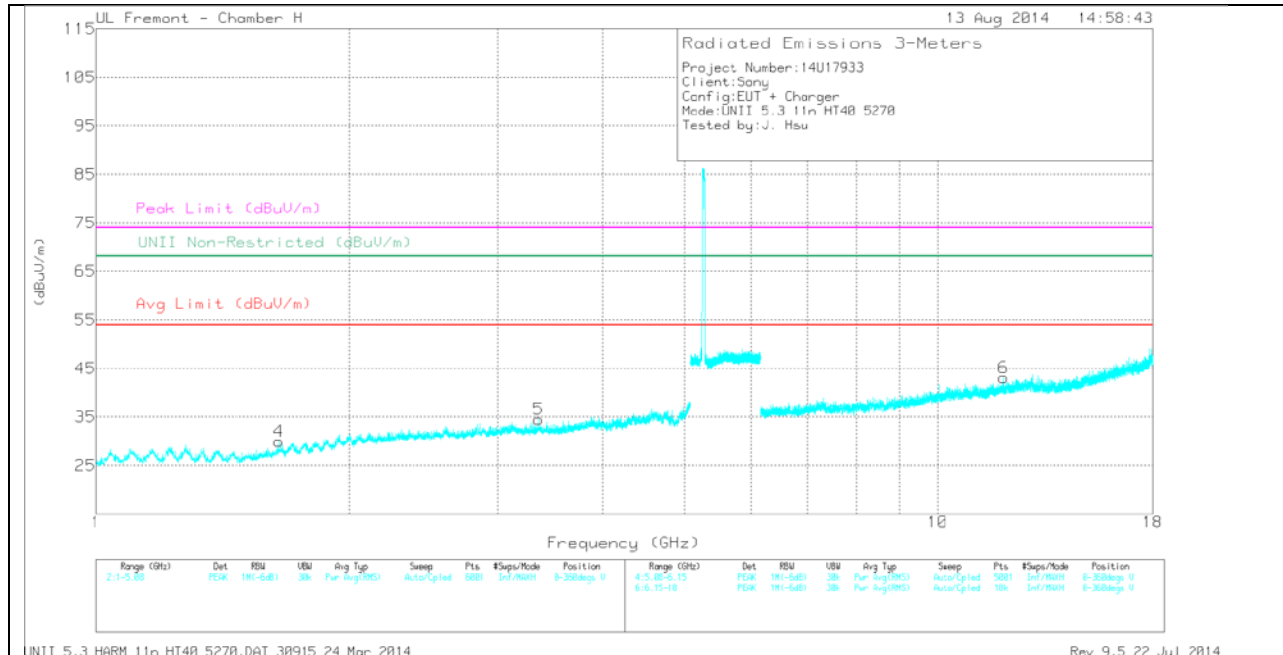
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (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	* 1.337	36.16	PK	28.5	-35.6	29.06	-	-	74	-44.94	-	-	0-360	201	H
2	* 4.345	33.63	PK	33.7	-31.3	36.03	-	-	74	-37.97	-	-	0-360	100	H
5	* 3.352	34.31	PK	32.9	-32.7	34.51	-	-	74	-39.49	-	-	0-360	201	V
6	* 11.973	30.16	PK	38.8	-25.9	43.06	-	-	74	-30.94	-	-	0-360	201	V
4	1.649	35.57	PK	28.9	-34.5	29.97	-	-	-	-	68.2	-38.23	0-360	100	V
3	7.222	31.8	PK	36.2	-29.1	38.9	-	-	-	-	68.2	-29.3	0-360	201	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

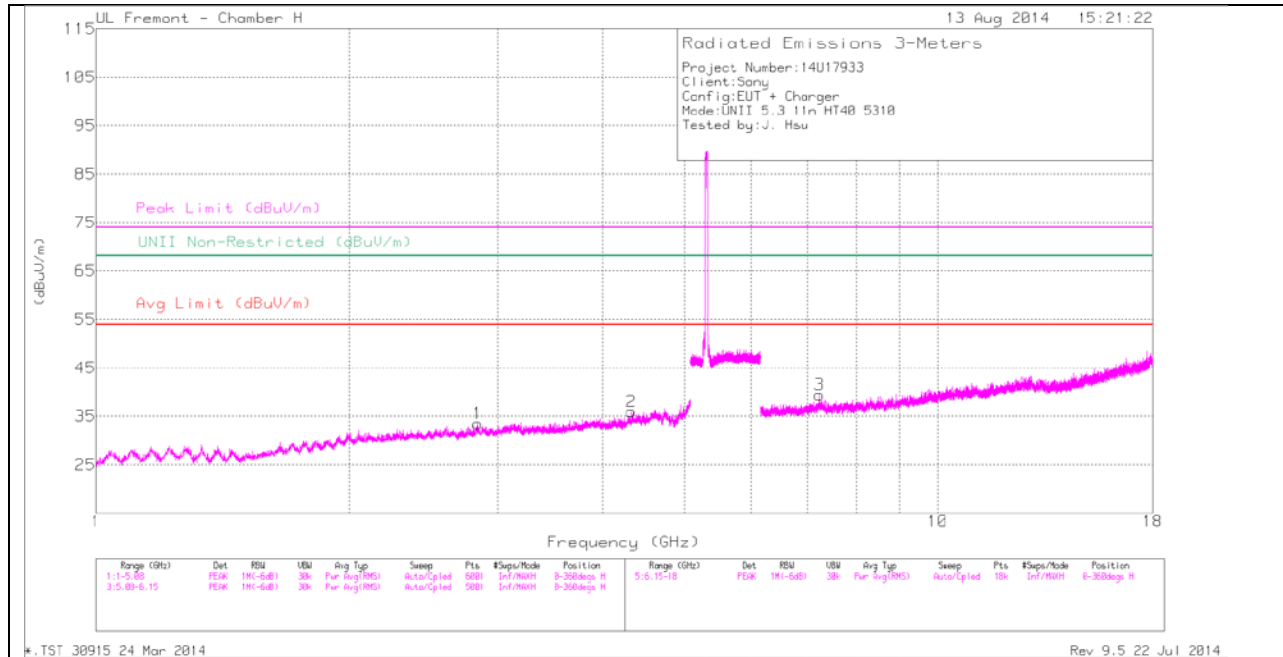
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.973	36.95	PK1	38.8	-25.9	49.85	-	-	74	-24.15	-	-	360	100	V
* 11.973	25.41	AD1	38.8	-25.8	38.41	54	-15.59	-	-	-	-	360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

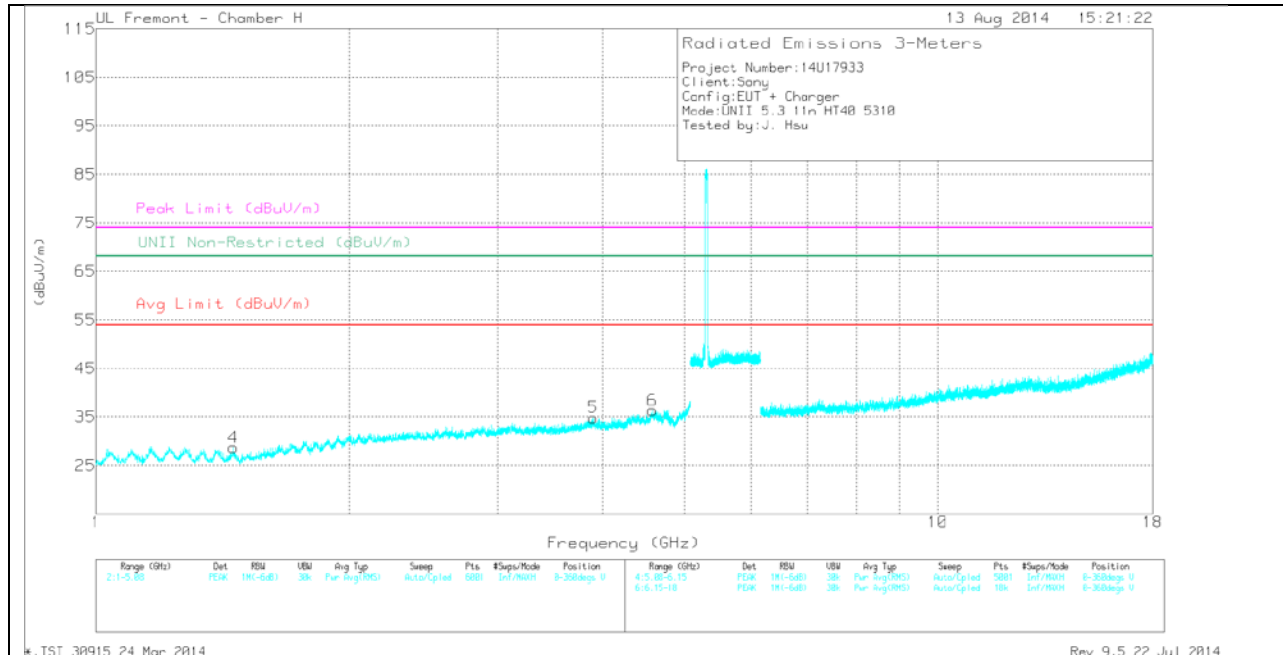
**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



**HIGH CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Fltr /Pad (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	* 2.839	34.04	PK	32.5	-33.1	33.44	-	-	74	-40.56	-	-	0-360	201	H
2	* 4.324	33.85	PK	33.6	-31.5	35.95	-	-	74	-38.05	-	-	0-360	100	H
4	* 1.454	35.69	PK	27.9	-34.9	28.69	-	-	74	-45.31	-	-	0-360	201	V
5	* 3.895	34.36	PK	33.4	-32.9	34.86	-	-	74	-39.14	-	-	0-360	201	V
6	* 4.58	34.2	PK	34.1	-31.9	36.4	-	-	74	-37.6	-	-	0-360	201	V
3	7.228	32.23	PK	36.2	-29	39.43	-	-	-	-	68.2	-28.77	0-360	100	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Fltr /Pad (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
* 4.581	41.57	PK1	34.1	-31.9	43.77	-	-	74	-30.23	-	-	360	100	V
* 4.579	30.64	AD1	34.1	-31.9	32.84	54	-21.16	-	-	-	-	360	100	V

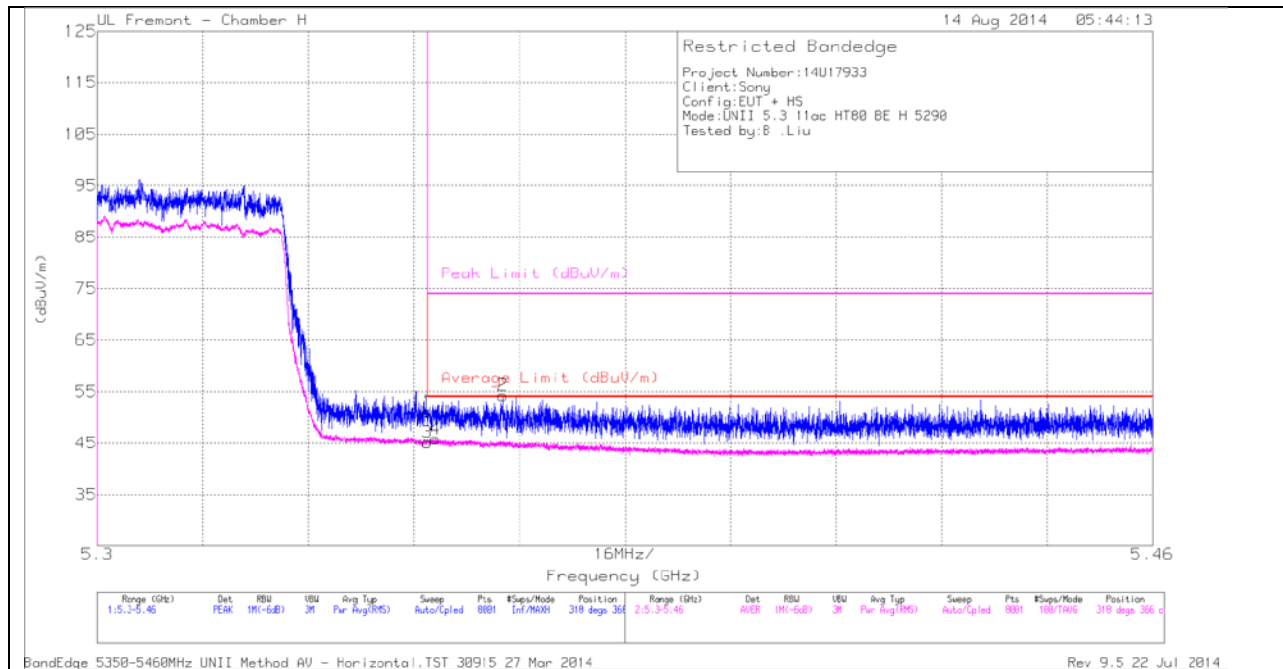
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 11.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

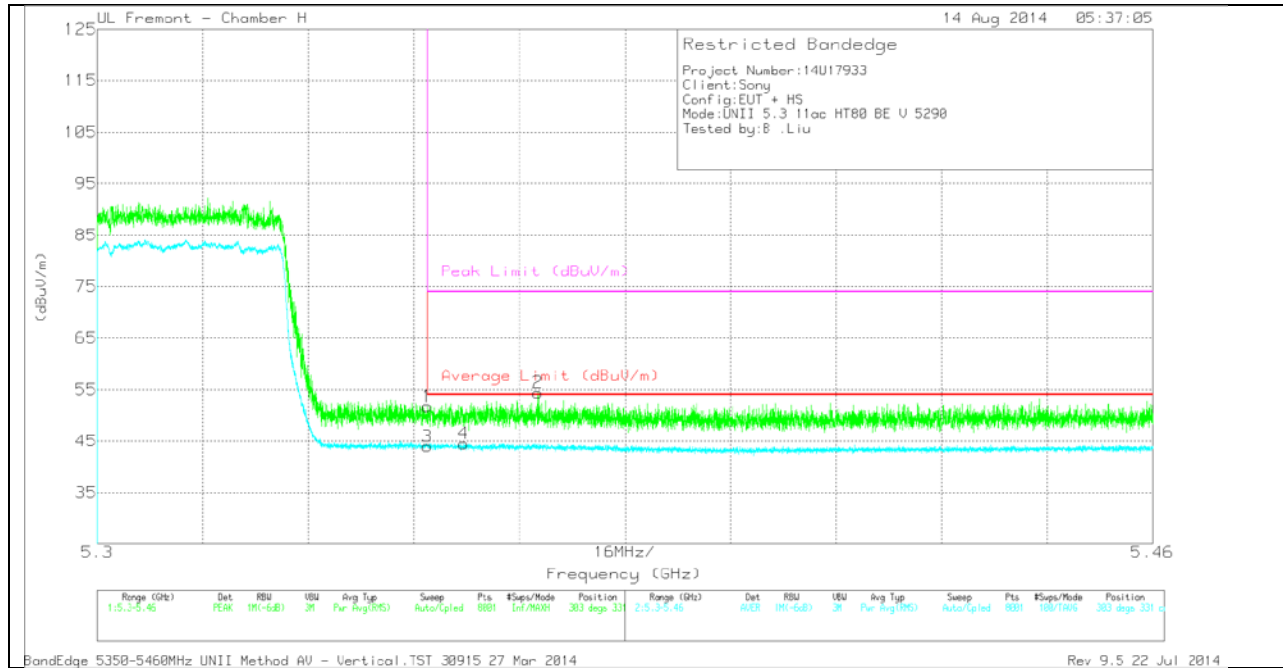
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.89	PK	34.9	-22.7	0	51.09	-	-	74	-22.91	318	366	H
3	* 5.35	31.45	RMS	34.9	-22.7	.24	43.89	54	-10.11	-	-	318	366	H
4	* 5.351	32.11	RMS	34.9	-22.7	.24	44.55	54	-9.45	-	-	318	366	H
2	* 5.361	42.08	PK	34.9	-22.7	0	54.28	-	-	74	-19.72	318	366	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filter/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	39.52	PK	34.9	-22.7	0	51.72	-	-	74	-22.28	303	331	V
3	* 5.35	30.25	RMS	34.9	-22.7	.24	42.69	54	-11.31	-	-	303	331	V
4	* 5.356	30.82	RMS	34.9	-22.7	.24	43.26	54	-10.74	-	-	303	331	V
2	* 5.367	42.21	PK	34.9	-22.7	0	54.41	-	-	74	-19.59	303	331	V

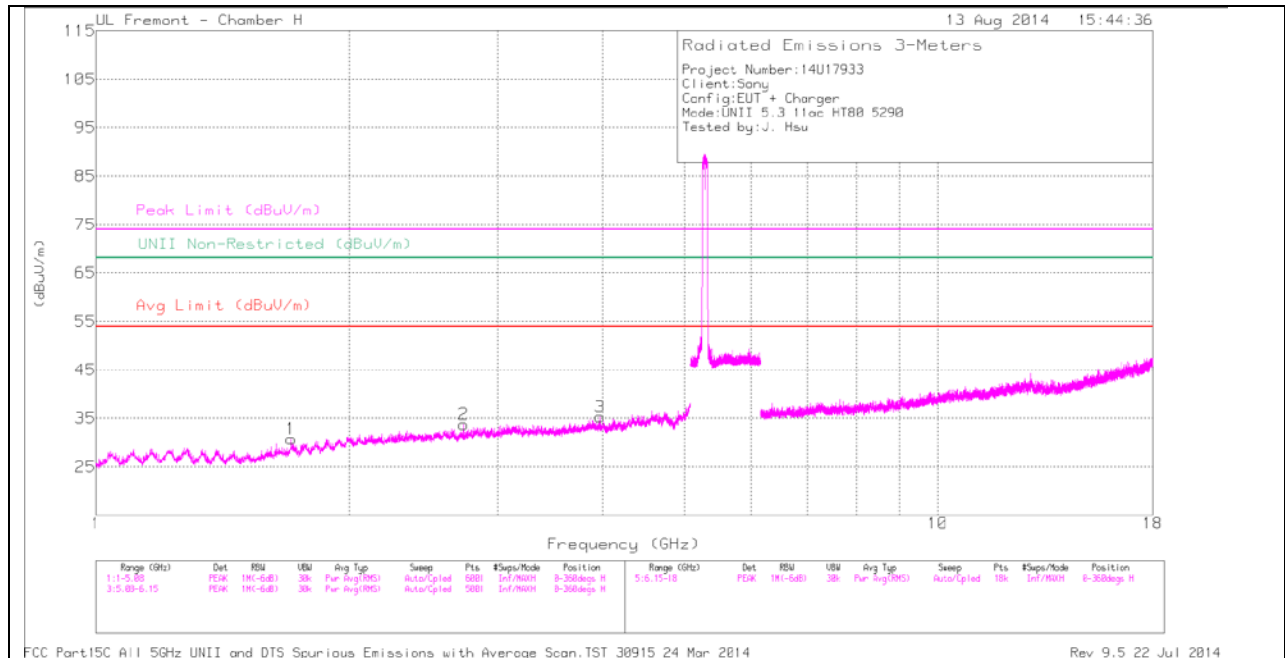
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

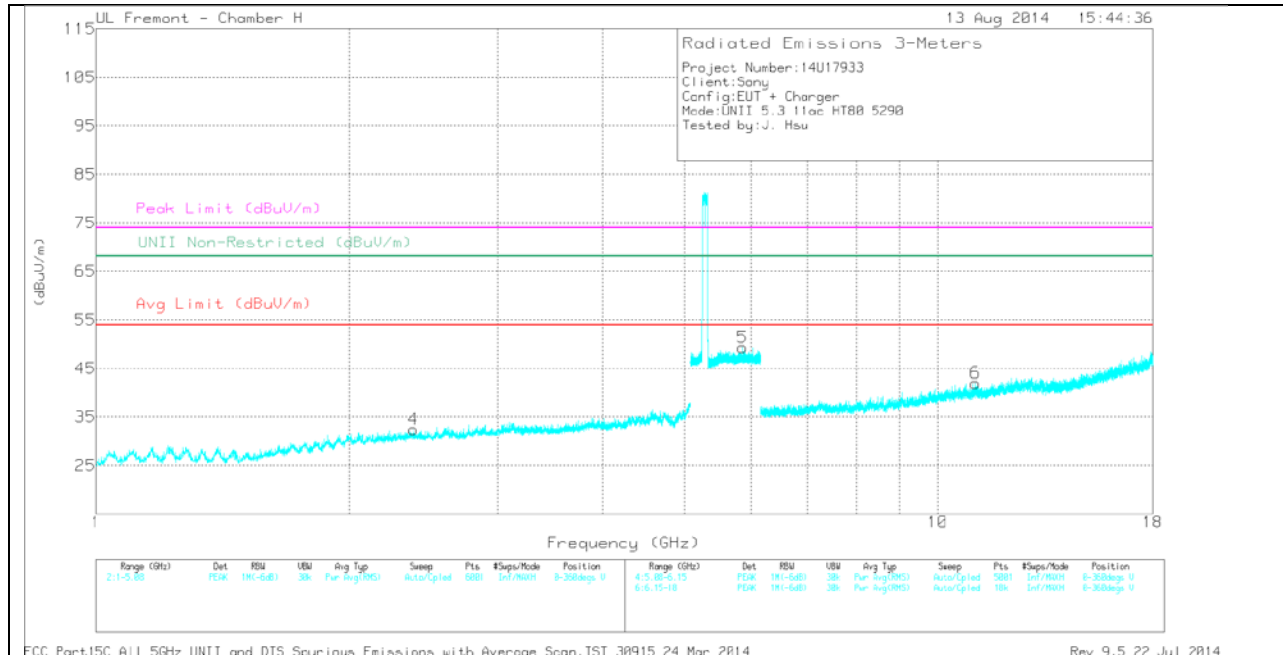
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr /Pad (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	* 1.705	35.71	PK	29.3	-34.3	30.71	-	-	74	-43.29	-	-	0-360	100	H
2	* 2.732	35.87	PK	32.3	-34.4	33.77	-	-	74	-40.23	-	-	0-360	100	H
3	* 3.968	34.87	PK	33.5	-33	35.37	-	-	74	-38.63	-	-	0-360	100	H
4	* 2.383	34.51	PK	32	-34	32.51	-	-	74	-41.49	-	-	0-360	100	V
6	* 11.09	29.2	PK	37.8	-25	42	-	-	74	-32	-	-	0-360	201	V
5	5.864	36.45	PK	35.1	-22.2	49.35	-	-	-	-	68.2	-18.85	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr /Pad (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
* 11.089	37.15	PK1	37.8	-25	49.95	-	-	74	-24.05	-	-	360	100	V
* 11.09	25.3	AD1	37.8	-25	38.1	54	-15.9	-	-	-	-	360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

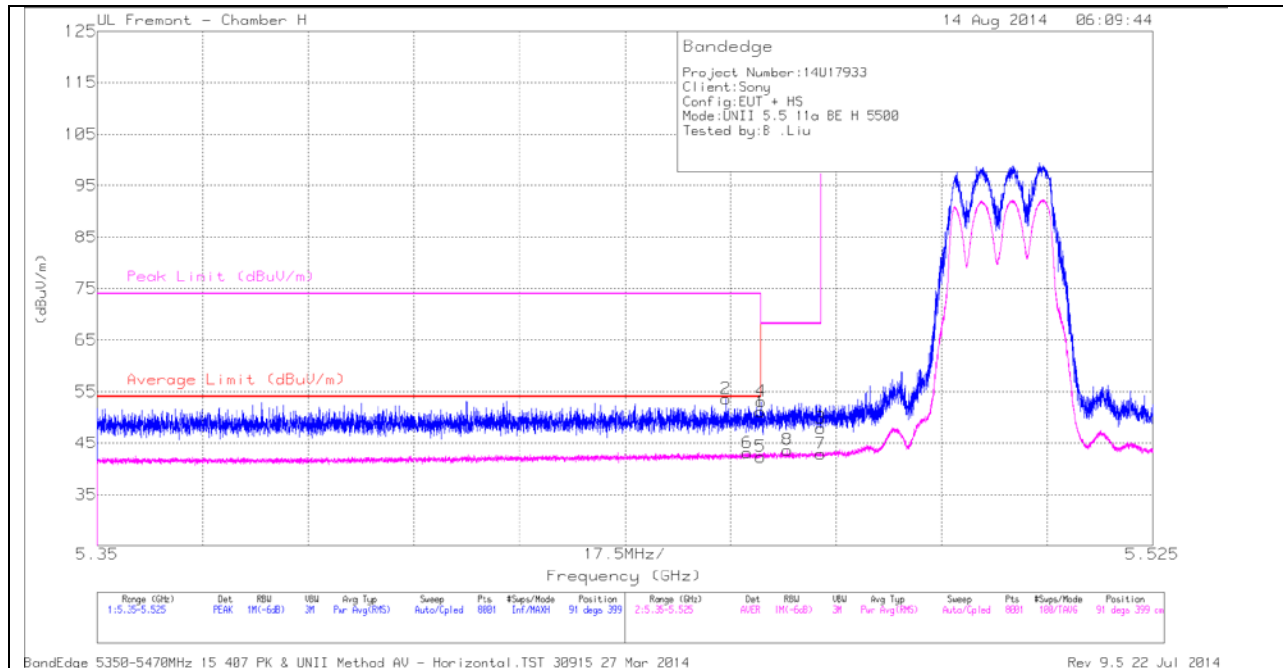
AD1 - KDB789033 Method: AD Primary Power Average

## 11.2. 5.5-5.6 GHz

### 11.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND

#### RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.454	41.13	PK	35	-22.5	53.63	-	-	74	-20.37	91	399	H
6	* 5.458	30.38	RMS	35	-22.5	43.1	54	-10.9	-	-	91	399	H
1	* 5.46	38.55	PK	35	-22.5	51.05	-	-	74	-22.95	91	399	H
5	* 5.46	29.61	RMS	35	-22.5	42.33	54	-11.67	-	-	91	399	H
4	5.46	40.58	PK	35	-22.5	53.08	-	-	68.2	-15.12	91	399	H
8	5.464	30.84	RMS	35	-22.4	43.66	-	-	-	-	91	399	H
3	5.47	35.16	PK	35.1	-22.4	47.86	-	-	68.2	-20.34	91	399	H
7	5.47	30.01	RMS	35.1	-22.4	42.93	-	-	-	-	91	399	H

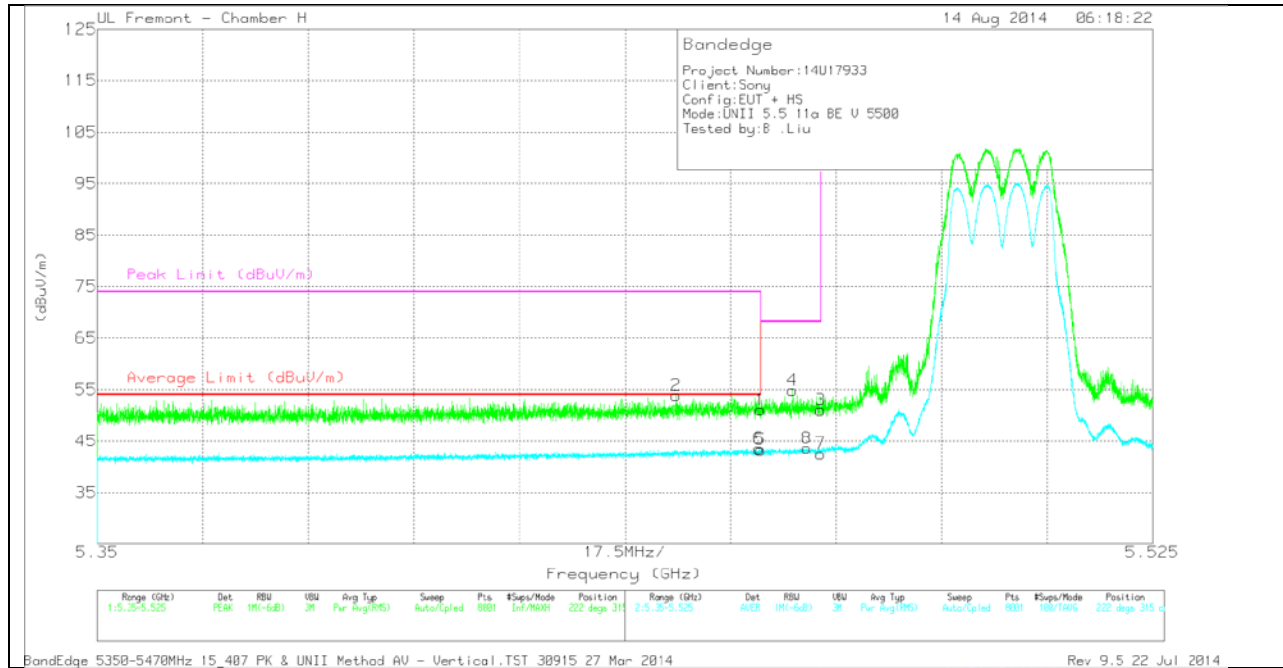
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.446	41.37	PK	35	-22.5	53.87	-	-	74	-20.13	222	315	V
1	* 5.46	38.53	PK	35	-22.5	51.03	-	-	74	-22.97	222	315	V
5	* 5.46	30.59	RMS	35	-22.5	43.31	54	-10.69	-	-	222	315	V
6	* 5.46	30.82	RMS	35	-22.5	43.54	54	-10.46	-	-	222	315	V
4	5.465	42.22	PK	35	-22.4	54.82	-	-	68.2	-13.38	222	315	V
8	5.468	30.78	RMS	35	-22.4	43.6	-	-	-	-	222	315	V
3	5.47	38.32	PK	35.1	-22.4	51.02	-	-	68.2	-17.18	222	315	V
7	5.47	29.61	RMS	35.1	-22.4	42.53	-	-	-	-	222	315	V

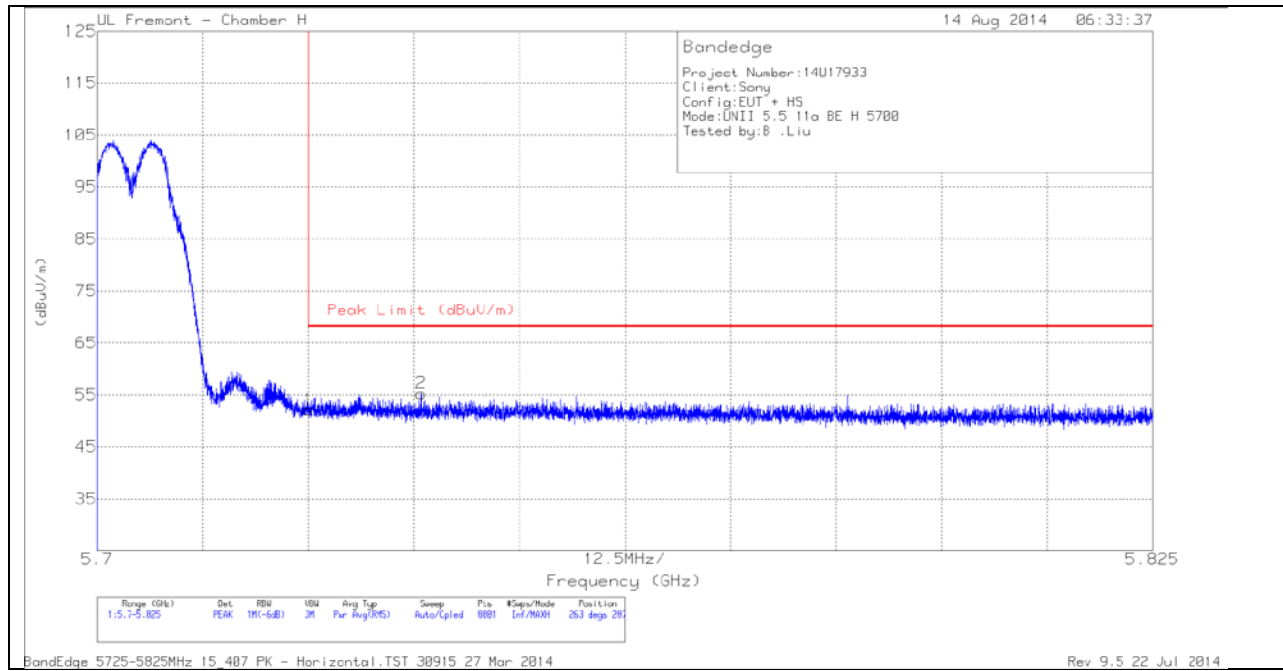
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**

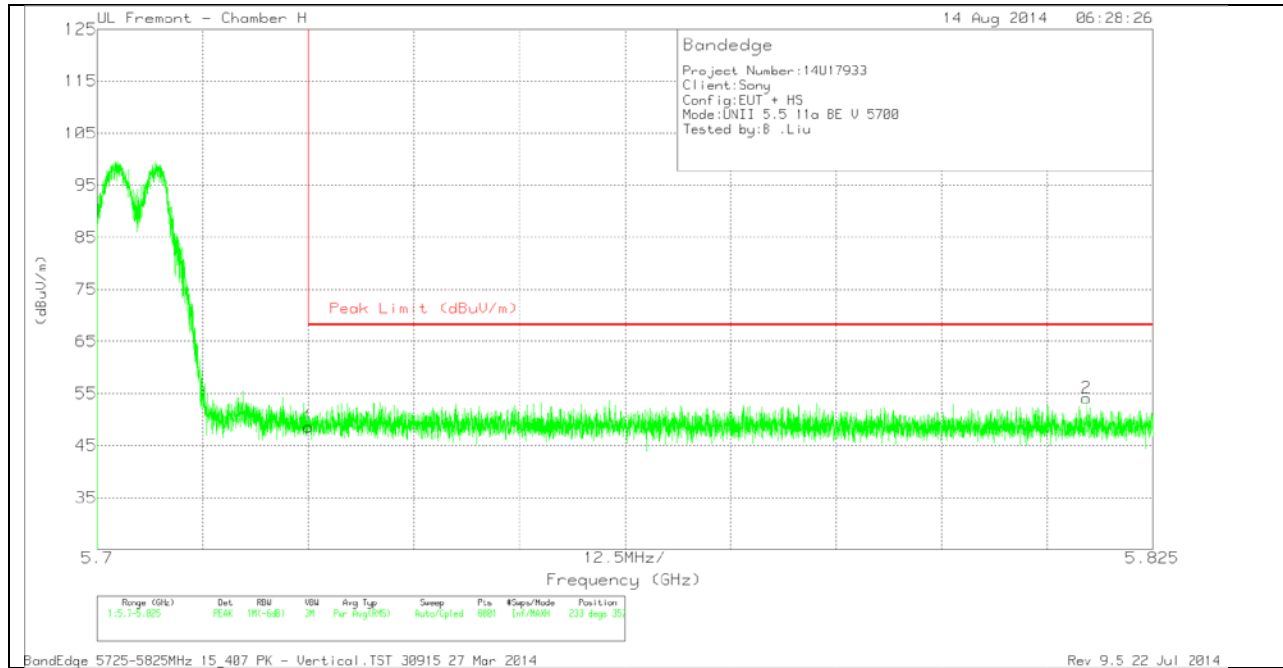


**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.56	PK	35	-22.4	0	52.16	68.2	-16.04	263	287	H
2	5.738	42.6	PK	35	-22.3	0	55.3	68.2	-12.9	263	287	H

PK - Peak detector

**VERTICAL PEAK AND AVERAGE PLOT**



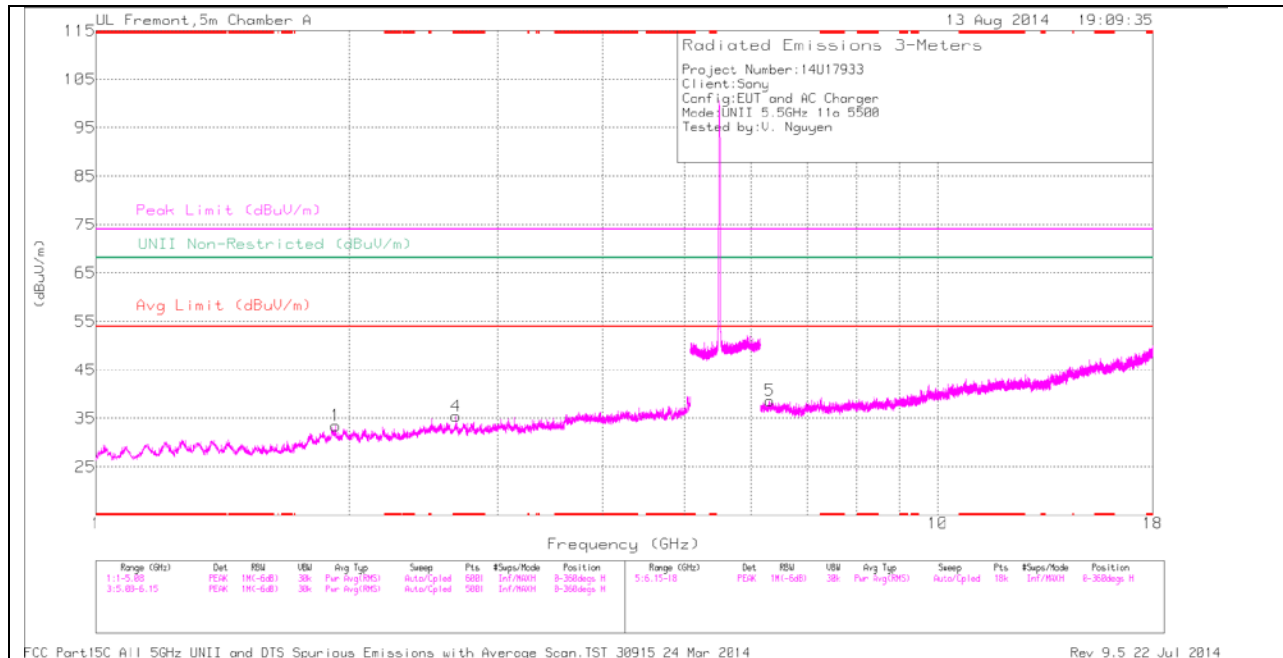
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.03	PK	35	-22.4	0	48.63	68.2	-19.57	233	352	V
2	5.817	41.31	PK	35.1	-22.3	0	54.11	68.2	-14.09	233	352	V

PK - Peak detector

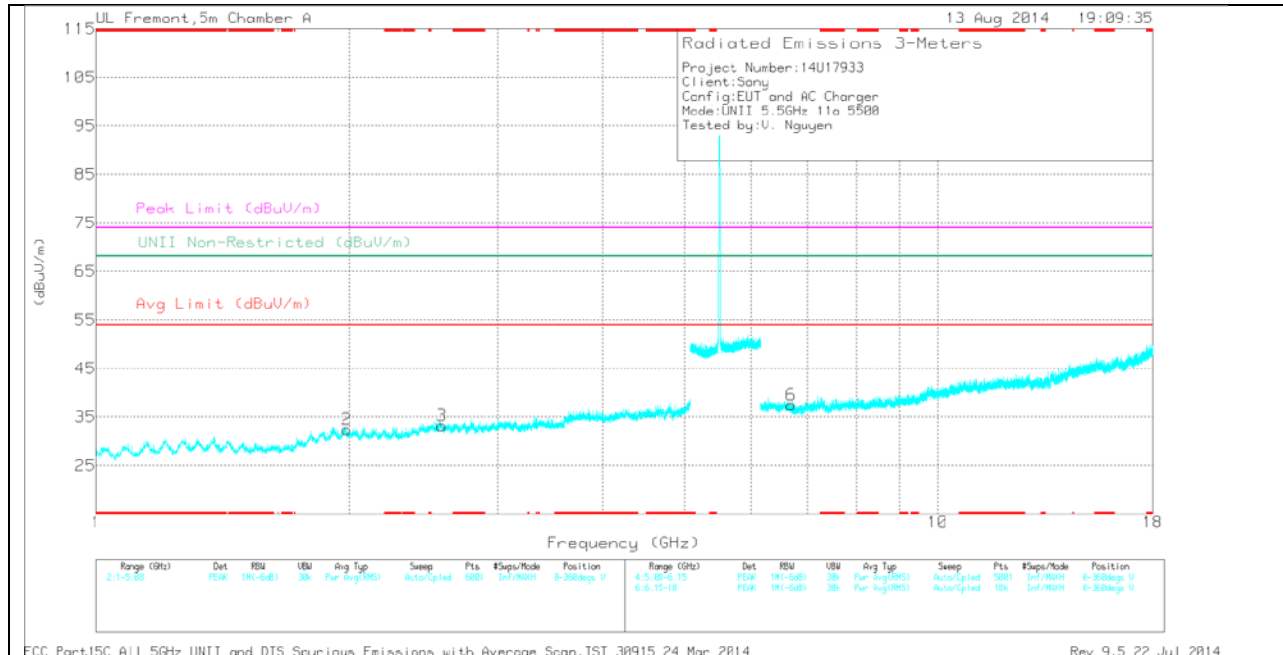
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filr/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
4	* 2.68	34.91	PK	32.8	-32.3	0	35.41	-	-	74	-38.59	-	-	0-360	100	H
1	1.923	35.04	PK	31.7	-33.2	0	33.54	-	-	-	-	68.2	-34.66	0-360	201	H
2	1.985	34.12	PK	32	-33.7	0	32.42	-	-	-	-	68.2	-35.78	0-360	201	V
3	2.572	32.85	PK	32.9	-32.5	0	33.25	-	-	-	-	68.2	-34.95	0-360	201	V
5	6.315	30.12	PK	35.5	-26.9	0	38.72	-	-	-	-	68.2	-29.48	0-360	100	H
6	6.698	29.47	PK	35.4	-27.4	0	37.47	-	-	-	-	68.2	-30.73	0-360	201	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

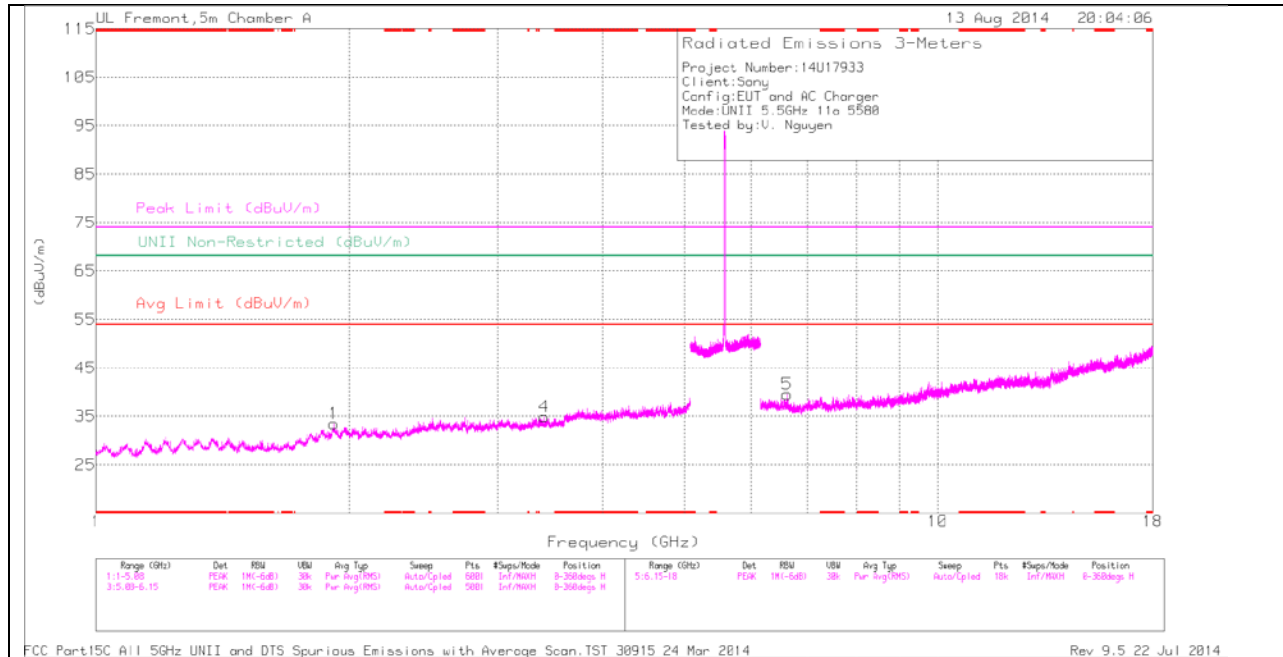
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.682	41.71	PK1	32.8	-32.3	0	42.21	-	-	74	-31.79	-	-	9	153	H
* 2.68	29.67	AD1	32.8	-32.3	0	30.17	54	-23.83	-	-	-	-	9	153	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

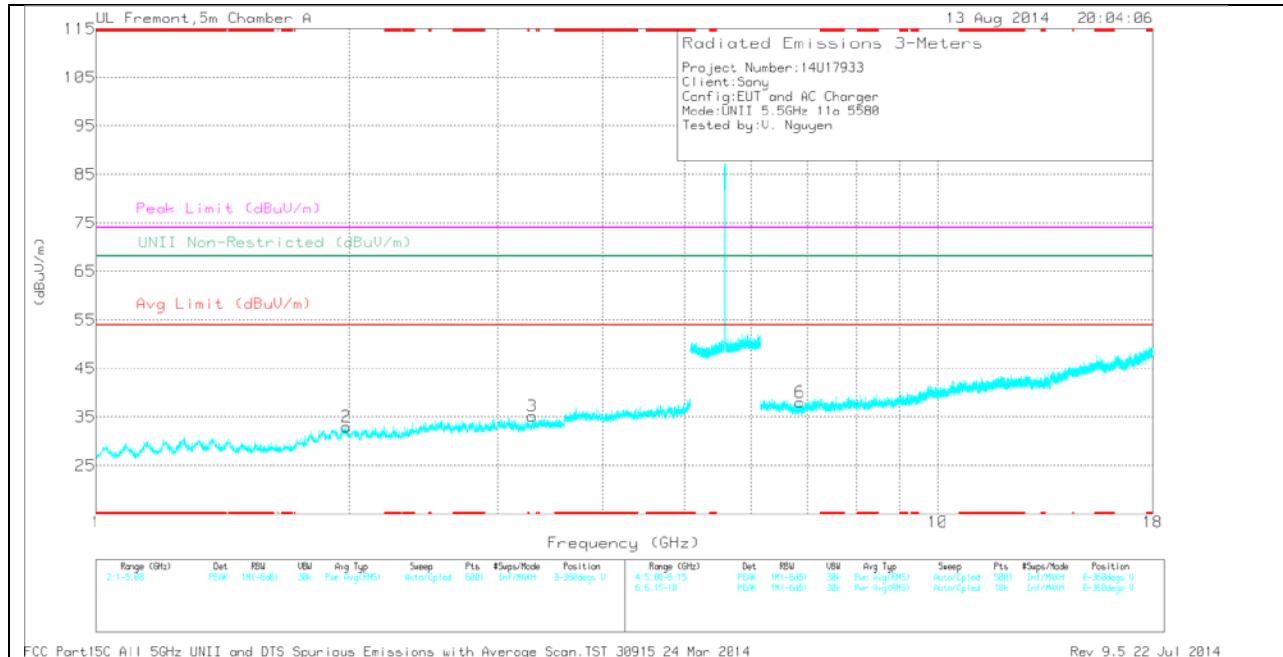
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



**MID CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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	1.915	35.14	PK	31.7	-33.3	0	33.54	-	-	-	-	68.2	-34.66	0-360	100	H
2	1.983	34.7	PK	32	-33.7	0	33	-	-	-	-	68.2	-35.2	0-360	201	V
3	3.299	33.51	PK	32.9	-31.2	0	35.21	-	-	-	-	68.2	-32.99	0-360	100	V
4	3.407	32.44	PK	33	-30.5	0	34.94	-	-	-	-	68.2	-33.26	0-360	100	H
5	6.621	30.43	PK	35.5	-26.3	0	39.63	-	-	-	-	68.2	-28.57	0-360	201	H
6	6.864	29.7	PK	35.3	-27	0	38	-	-	-	-	68.2	-30.2	0-360	201	V

PK - Peak detector

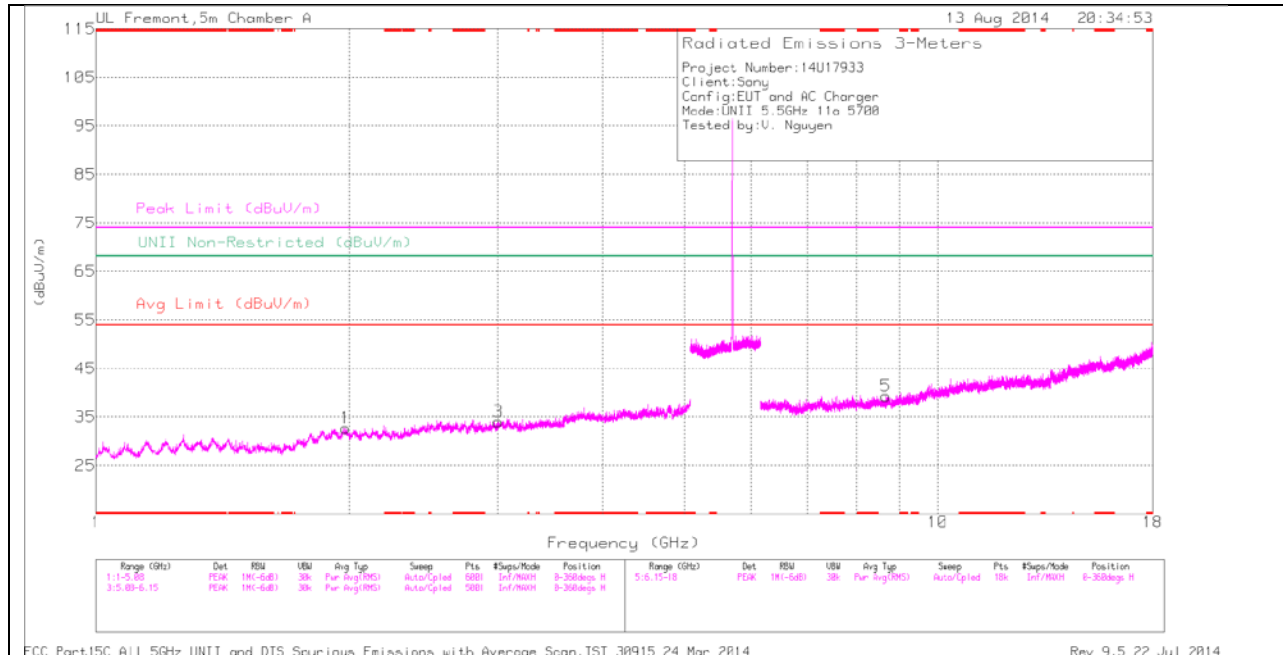
**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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
6.621	36.9	PK1	35.5	-26.3	0	46.1	-	-	-	-	68.2	-22.1	335	387	H
6.621	25.52	AD1	35.5	-26.3	0	34.72	-	-	-	-	-	-	335	387	H

PK1 - KDB789033 Method: Peak

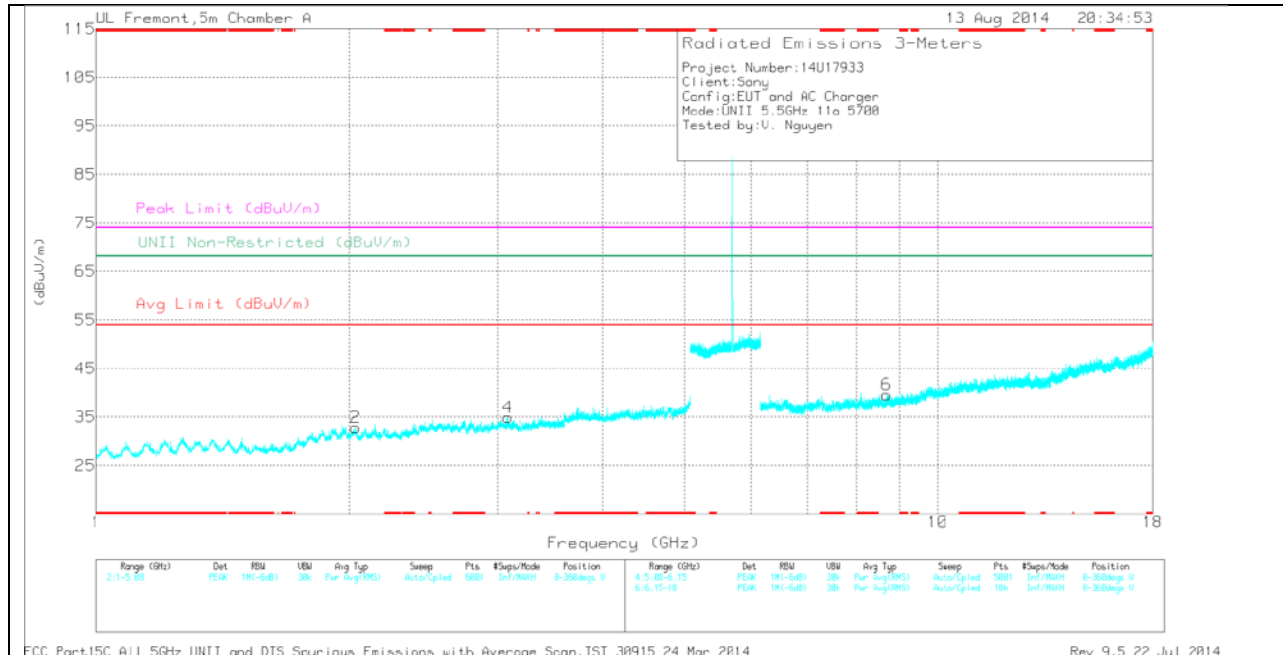
AD1 - KDB789033 Method: AD Primary Power Average

**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
1	1.978	34.46	PK	32	-33.7	0	32.76	-	-	-	-	68.2	-35.44	0-360	201	H
2	2.034	34.77	PK	32	-33.9	0	32.87	-	-	-	-	68.2	-35.33	0-360	201	V
3	3.005	32.49	PK	32.8	-31.3	0	33.99	-	-	-	-	68.2	-34.21	0-360	201	H
4	3.085	32.97	PK	32.8	-30.8	0	34.97	-	-	-	-	68.2	-33.23	0-360	201	V
5	8.676	28.37	PK	35.8	-24.8	0	39.37	-	-	-	-	68.2	-28.83	0-360	201	H
6	8.689	28.84	PK	35.8	-25	0	39.64	-	-	-	-	68.2	-28.56	0-360	201	V

PK - Peak detector

**Radiated Emissions**

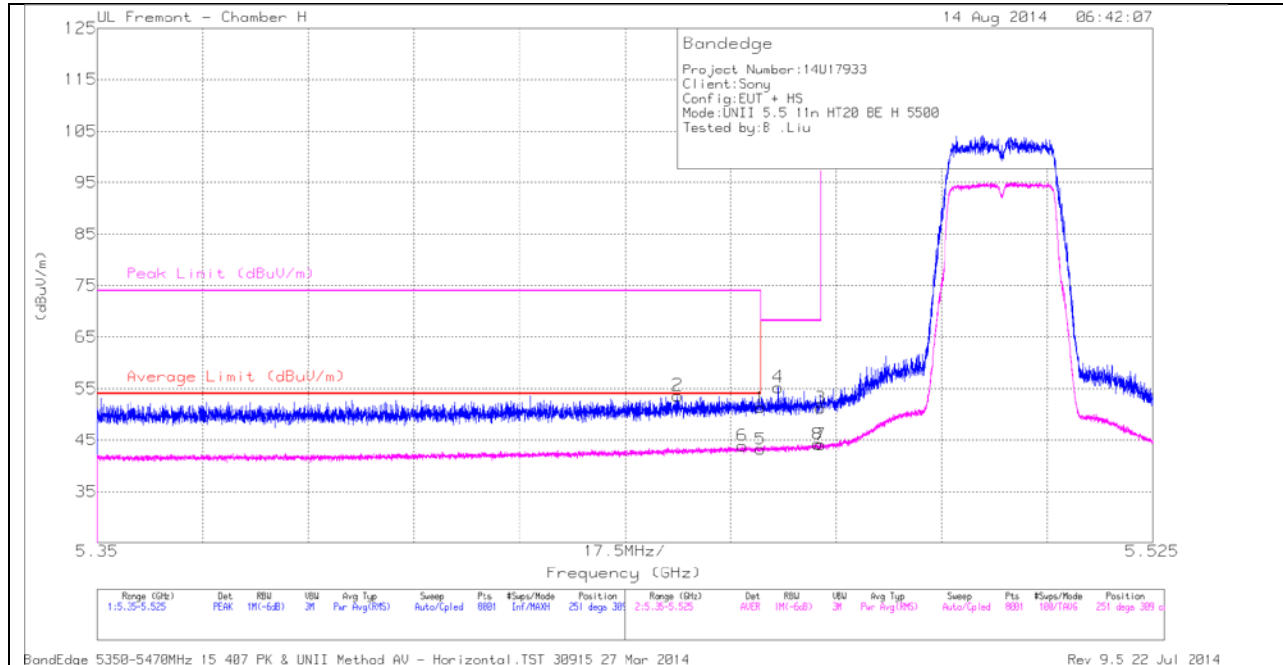
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.691	35.41	PK1	35.8	-25.1	0	46.11	-	-	-	-	68.2	-22.09	250	203	V
8.691	24	AD1	35.8	-25.1	0	34.7	-	-	-	-	-	-	250	203	V

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

## 11.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

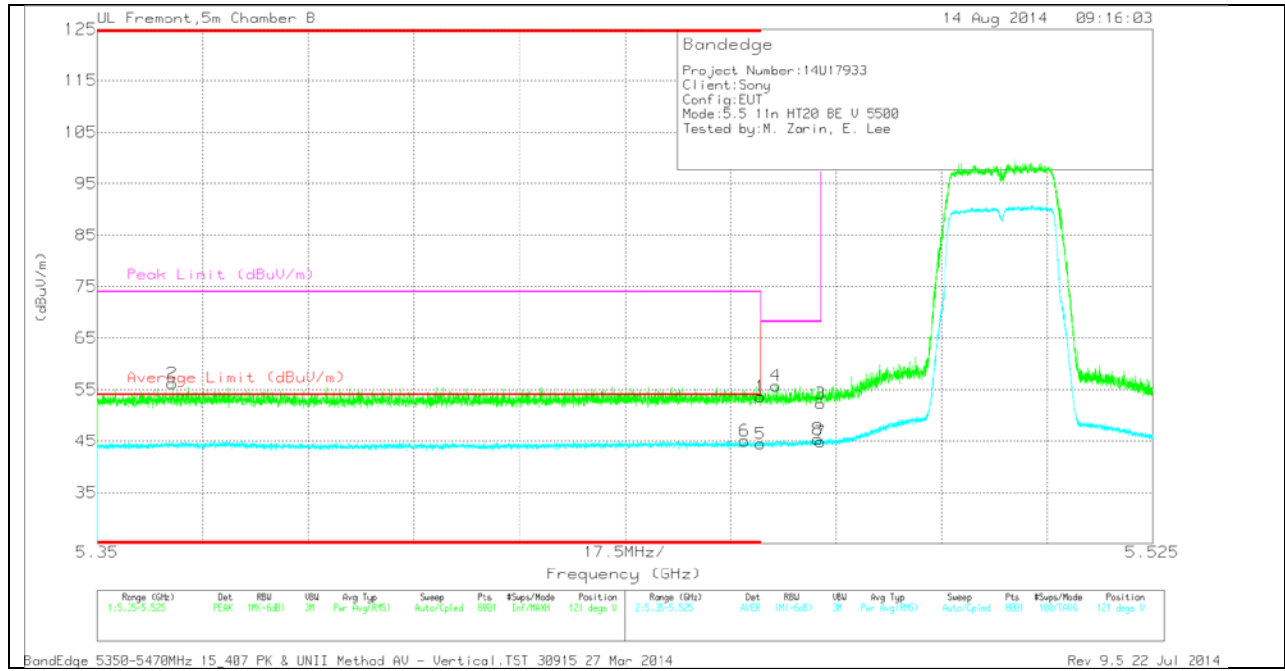
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.446	41.17	PK	35	-22.5	0	53.67	-	-	74	-20.33	251	309	H
6	* 5.457	31.17	RMS	35	-22.5	0	43.67	54	-10.33	-	-	251	309	H
1	* 5.46	38.79	PK	35	-22.5	0	51.29	-	-	74	-22.71	251	309	H
5	* 5.46	30.49	RMS	35	-22.5	0	42.99	54	-11.01	-	-	251	309	H
4	5.463	42.63	PK	35	-22.4	0	55.23	-	-	68.2	-12.97	251	309	H
8	5.469	31.27	RMS	35.1	-22.4	0	44.21	-	-	-	-	251	309	H
3	5.47	38.52	PK	35.1	-22.4	0	51.22	-	-	68.2	-16.98	251	309	H
7	5.47	31.17	RMS	35.1	-22.4	0	44.11	-	-	-	-	251	309	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	39.12	PK	34.5	-20	0	53.62	-	-	74	-20.38	121	249	V
2	* 5.362	41	PK	34.5	-19.3	0	56.2	-	-	74	-17.8	121	249	V
5	* 5.46	29.71	RMS	34.5	-20	0	44.21	54	-9.79	-	-	121	249	V
6	* 5.457	30.28	RMS	34.5	-20	0	44.78	54	-9.22	-	-	121	249	V
4	5.463	41.15	PK	34.5	-19.9	0	55.75	-	-	68.2	-12.45	121	249	V
3	5.47	37.66	PK	34.5	-19.9	0	52.26	-	-	68.2	-15.94	121	249	V
7	5.47	29.96	RMS	34.5	-19.9	0	44.8	-	-	-	-	121	249	V
8	5.47	30.5	RMS	34.5	-19.9	0	45.34	-	-	-	-	121	249	V

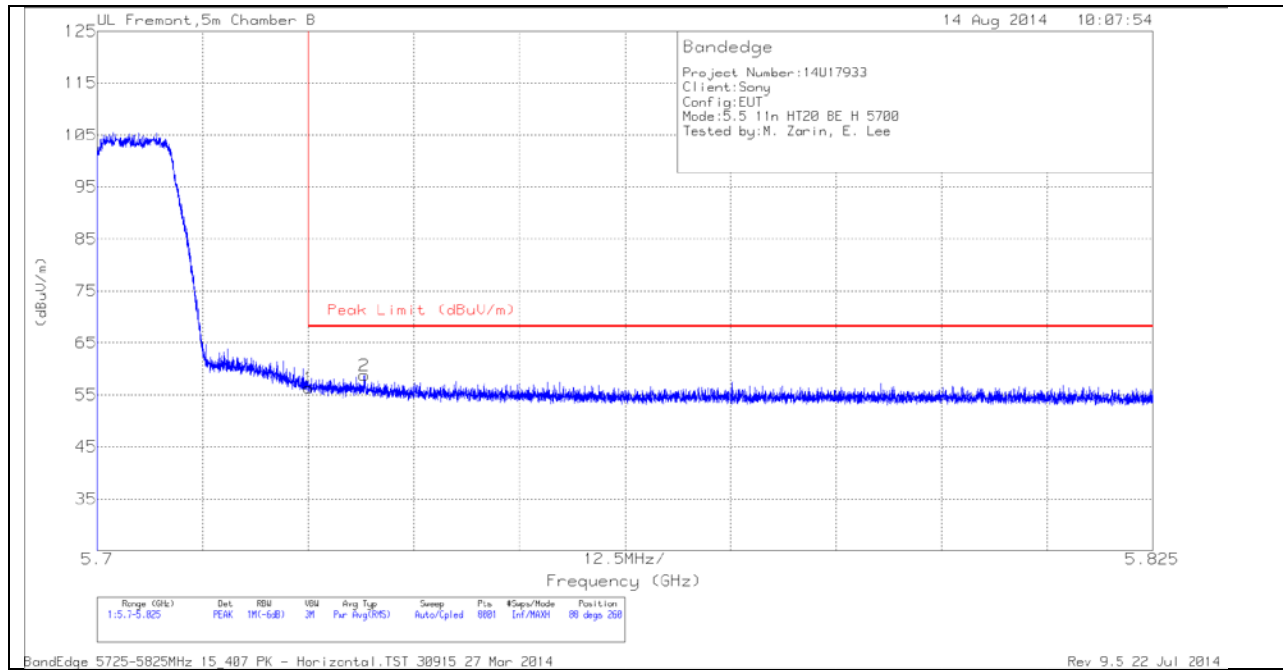
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**

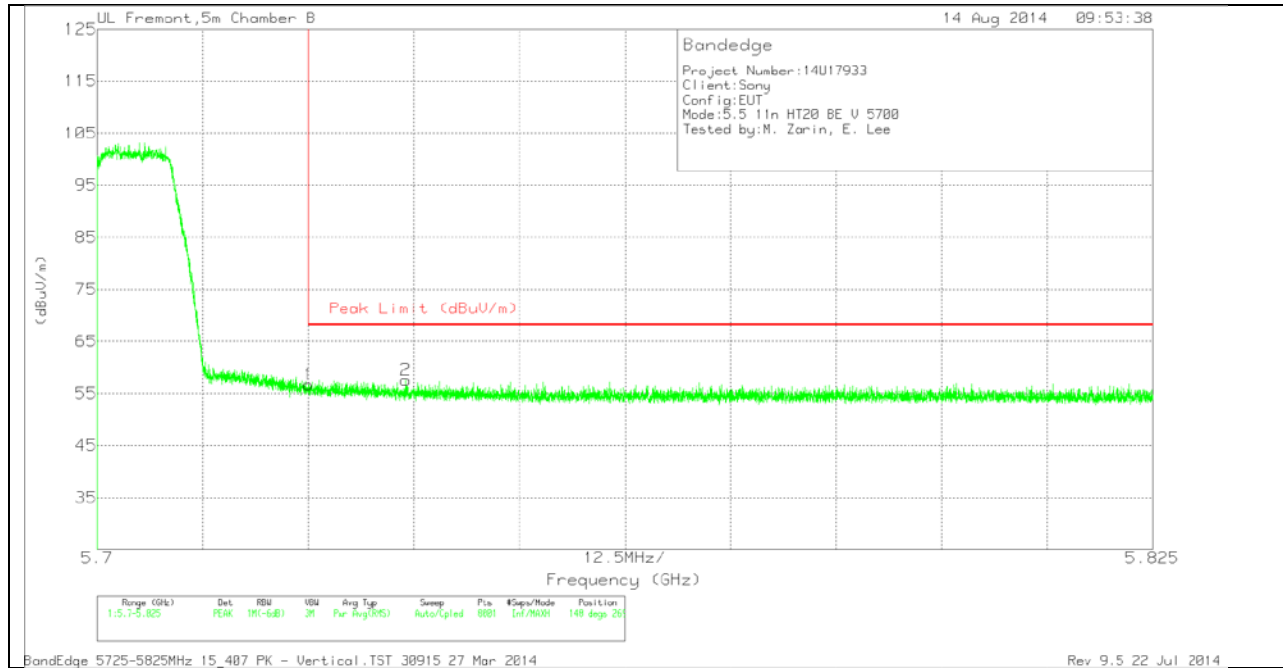


**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	41.32	PK	34.6	-19.6	0	56.32	68.2	-11.88	88	260	H
2	5.732	43.62	PK	34.6	-19.5	0	58.72	68.2	-9.48	88	260	H

PK - Peak detector

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

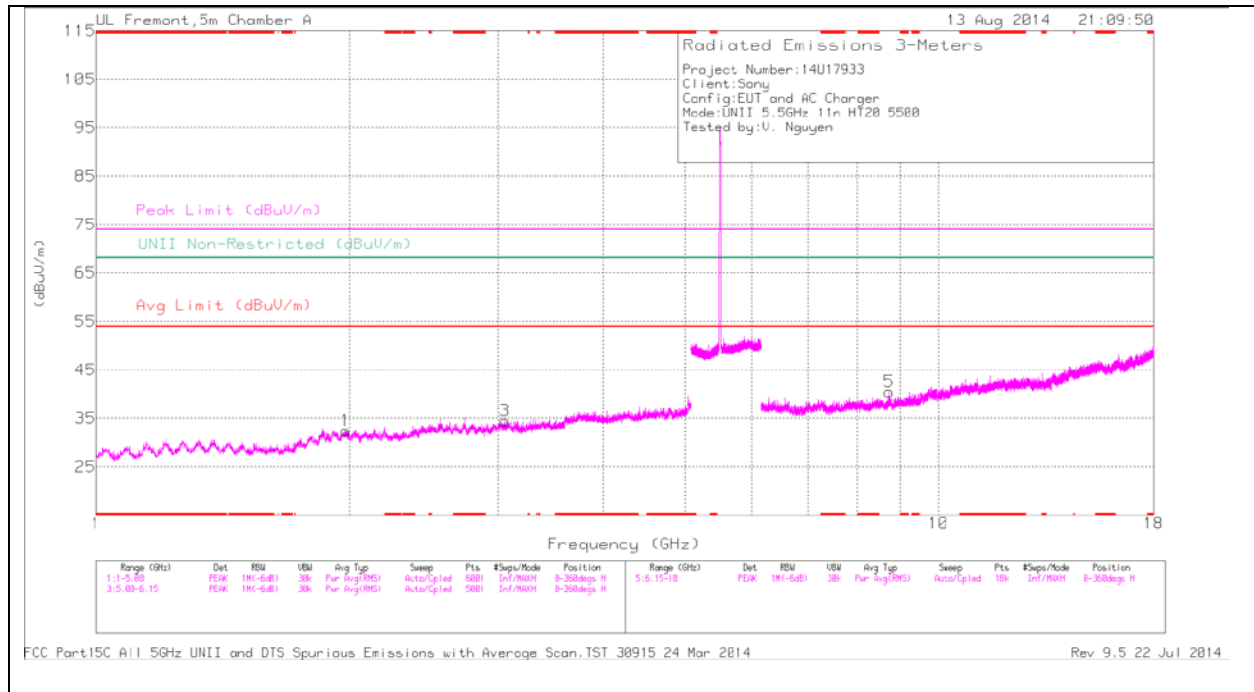
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	41.71	PK	34.6	-19.6	0	56.71	68.2	-11.49	148	269	V
2	5.737	42.49	PK	34.6	-19.5	0	57.59	68.2	-10.61	148	269	V

PK - Peak detector



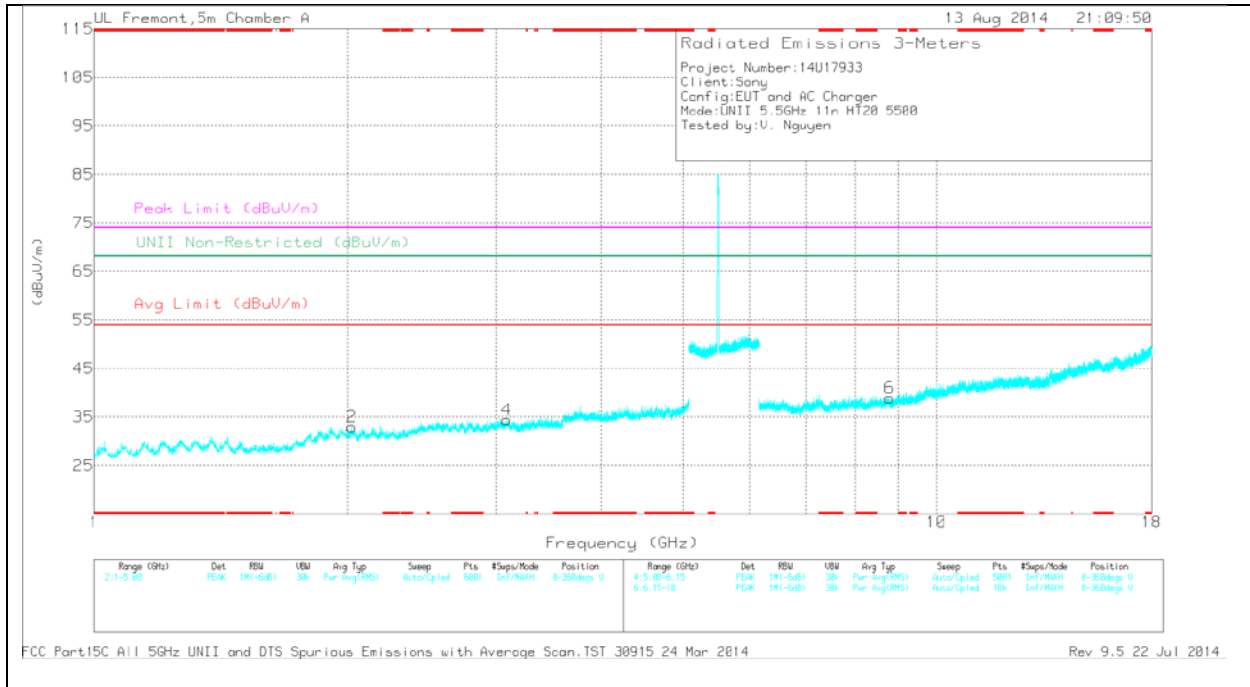
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
1	1.977	34.16	PK	32	-33.7	0	32.46	-	-	-	-	68.2	-35.74	0-360	201	H
2	2.022	34.81	PK	32	-33.8	0	33.01	-	-	-	-	68.2	-35.19	0-360	100	V
3	3.055	32.64	PK	32.8	-30.9	0	34.54	-	-	-	-	68.2	-33.66	0-360	100	H
4	3.09	32.5	PK	32.8	-30.9	0	34.4	-	-	-	-	68.2	-33.8	0-360	100	V
5	8.736	28.88	PK	35.8	-24.2	0	40.48	-	-	-	-	68.2	-27.72	0-360	100	H
6	8.808	28.27	PK	35.8	-25.1	0	38.97	-	-	-	-	68.2	-29.23	0-360	100	V

PK - Peak detector

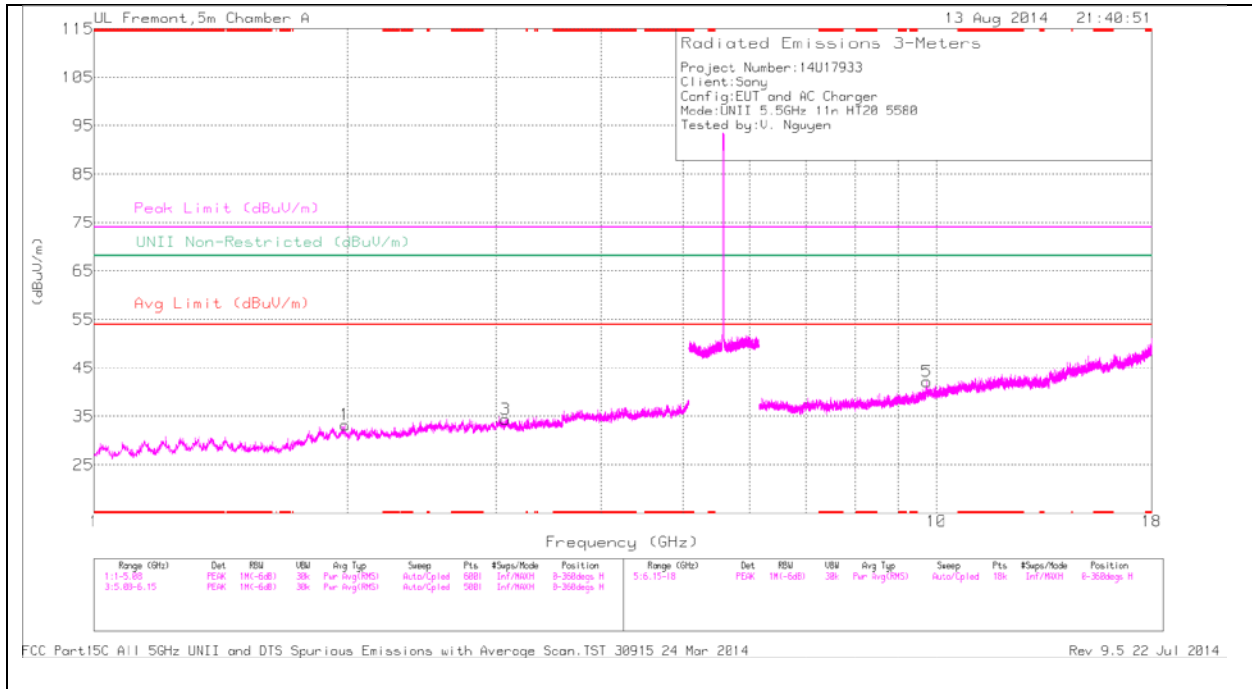
**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
8.734	23.79	AD1	35.8	-24.1	0	35.55	-	-	-	-	-	-	231	131	H
8.737	35.65	PK1	35.8	-24.2	0	47.25	-	-	-	-	68.2	-20.95	231	131	H

PK1 - KDB789033 Method: Peak

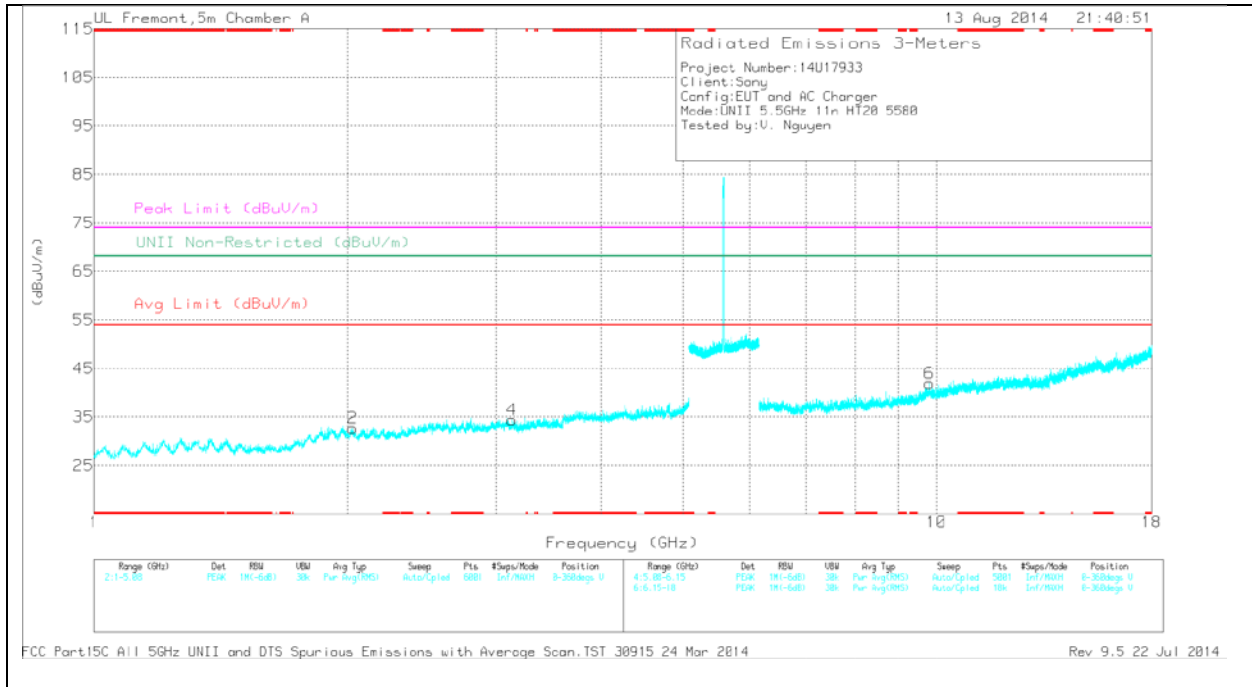
AD1 - KDB789033 Method: AD Primary Power Average

**MID CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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	1.986	34.96	PK	32	-33.7	0	33.26	-	-	-	-	68.2	-34.94	0-360	100	H
2	2.025	34.47	PK	32	-33.8	0	32.67	-	-	-	-	68.2	-35.53	0-360	201	V
3	3.079	32.36	PK	32.8	-30.7	0	34.46	-	-	-	-	68.2	-33.74	0-360	201	H
4	3.13	33.36	PK	32.7	-31.6	0	34.46	-	-	-	-	68.2	-33.74	0-360	100	V
5	9.736	28.15	PK	36.9	-22.9	0	42.15	-	-	-	-	68.2	-26.05	0-360	100	H
6	9.802	27.77	PK	36.9	-22.7	0	41.97	-	-	-	-	68.2	-26.23	0-360	201	V

PK - Peak detector

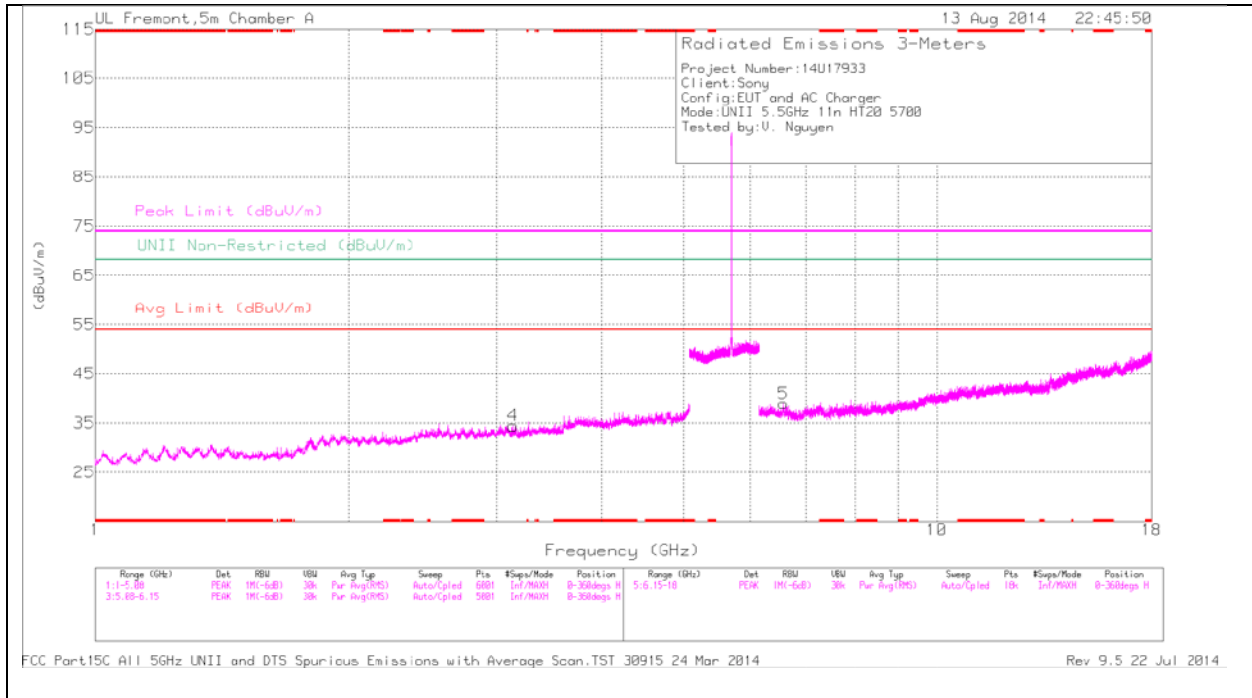
**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/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
9.734	34.92	PK1	36.9	-22.9	0	48.92	-	-	-	-	68.2	-19.28	148	339	H
9.737	23.38	AD1	36.9	-22.8	0	37.54	-	-	-	-	-	-	148	339	H

PK1 - KDB789033 Method: Peak

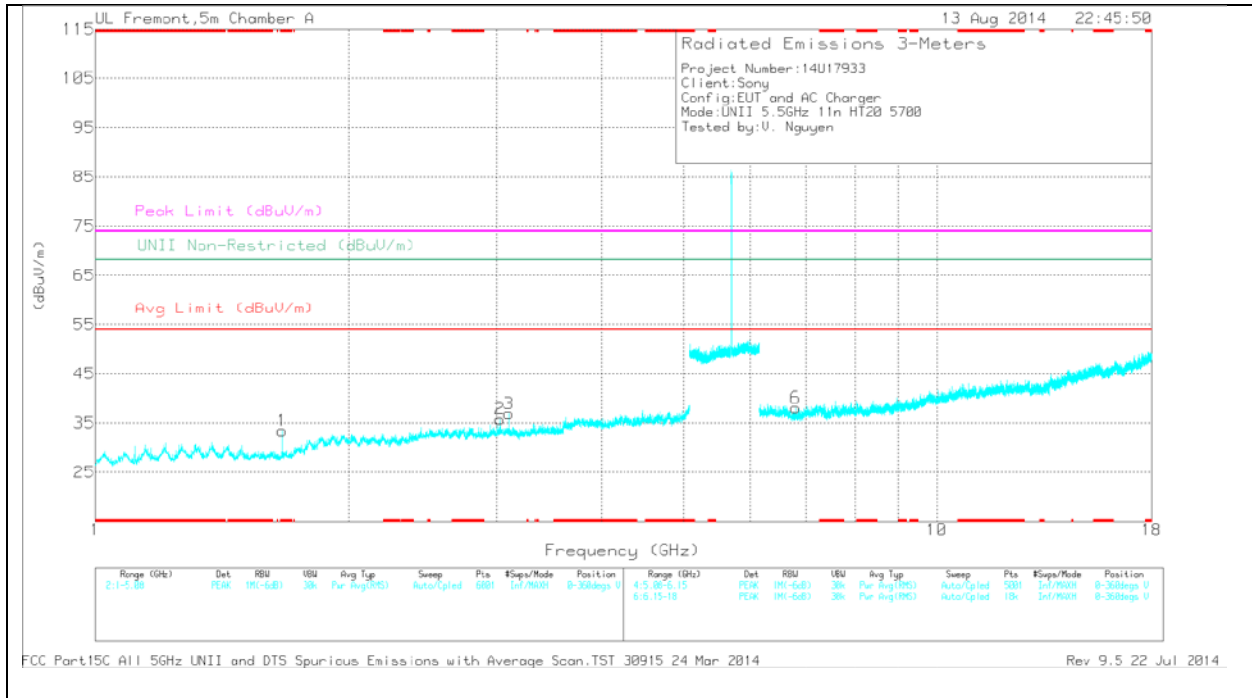
AD1 - KDB789033 Method: AD Primary Power Average

**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



**HIGH CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
1	* 1.667	38.94	PK	29	-34.5	0	33.44	-	-	74	-40.56	-	-	0-360	100	V
2	3.024	33.82	PK	32.8	-30.8	0	35.82	-	-	-	-	68.2	-32.38	0-360	201	V
3	3.101	35.12	PK	32.8	-31	0	36.92	-	-	-	-	68.2	-31.28	0-360	100	V
4	3.134	33.34	PK	32.7	-31.6	0	34.44	-	-	-	-	68.2	-33.76	0-360	201	H
5	6.574	29.72	PK	35.5	-26.3	0	38.92	-	-	-	-	68.2	-29.28	0-360	100	H
6	6.794	30.08	PK	35.3	-27.3	0	38.08	-	-	-	-	68.2	-30.12	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
* 1.668	42.66	PK1	29	-34.5	0	37.16	-	-	74	-36.84	-	-	297	224	V
* 1.669	30.89	AD1	29	-34.5	0	25.45	54	-28.55	-	-	-	-	297	224	V

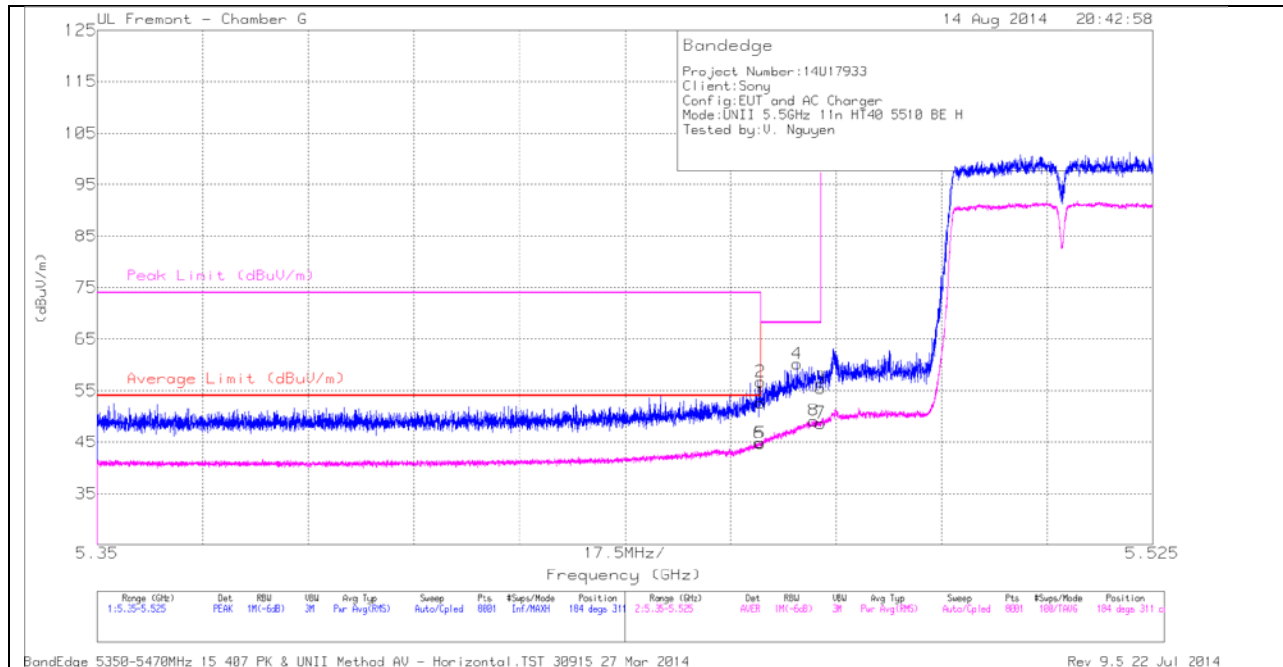
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 11.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

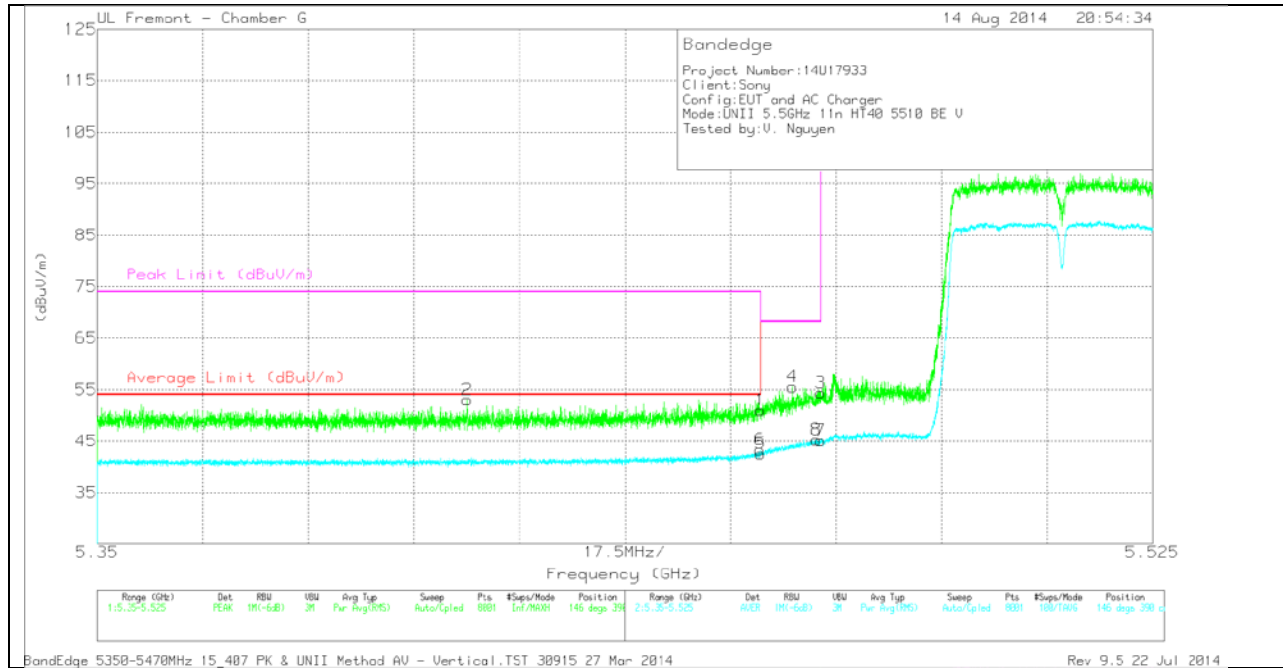
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.51	PK	34.7	-23.6	0	52.61	-	-	74	-21.39	184	311	H
2	* 5.46	45.6	PK	34.7	-23.6	0	56.7	-	-	74	-17.3	184	311	H
5	* 5.46	33.57	RMS	34.7	-23.6	.13	44.79	54	-9.21	-	-	184	311	H
6	* 5.46	33.62	RMS	34.7	-23.6	.13	44.84	54	-9.16	-	-	184	311	H
4	5.466	49.1	PK	34.7	-23.6	0	60.2	-	-	68.2	-8	184	311	H
8	5.469	37.95	RMS	34.7	-23.6	.13	49.17	-	-	-	-	184	311	H
3	5.47	44.38	PK	34.7	-23.6	0	55.48	-	-	68.2	-12.72	184	311	H
7	5.47	37.43	RMS	34.7	-23.6	.13	48.65	-	-	-	-	184	311	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/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	* 5.411	42.01	PK	34.6	-23.6	0	53.01	-	-	74	-20.99	146	390	V
1	* 5.46	39.89	PK	34.7	-23.6	0	50.99	-	-	74	-23.01	146	390	V
5	* 5.46	31.35	RMS	34.7	-23.6	.13	42.57	54	-11.43	-	-	146	390	V
6	* 5.46	32.09	RMS	34.7	-23.6	.13	43.31	54	-10.69	-	-	146	390	V
4	5.465	44.43	PK	34.7	-23.6	0	55.53	-	-	68.2	-12.67	146	390	V
8	5.469	34.02	RMS	34.7	-23.6	.13	45.24	-	-	-	-	146	390	V
3	5.47	43.24	PK	34.7	-23.6	0	54.34	-	-	68.2	-13.86	146	390	V
7	5.47	33.87	RMS	34.7	-23.6	.13	45.09	-	-	-	-	146	390	V

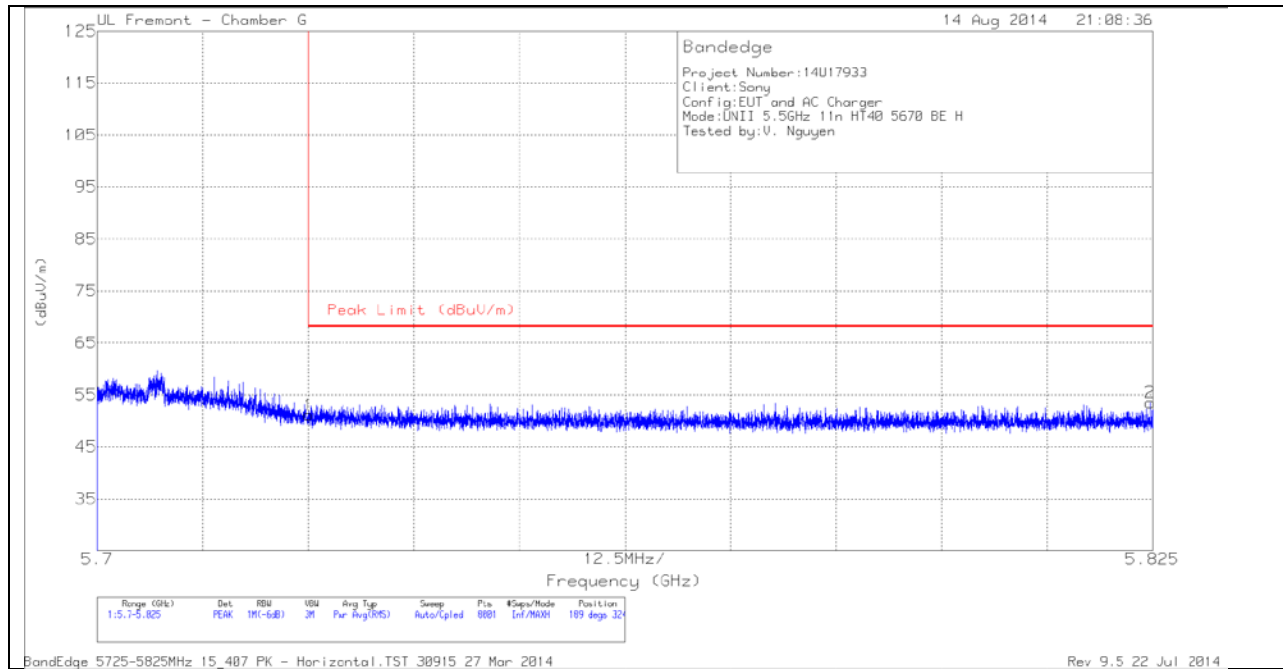
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT

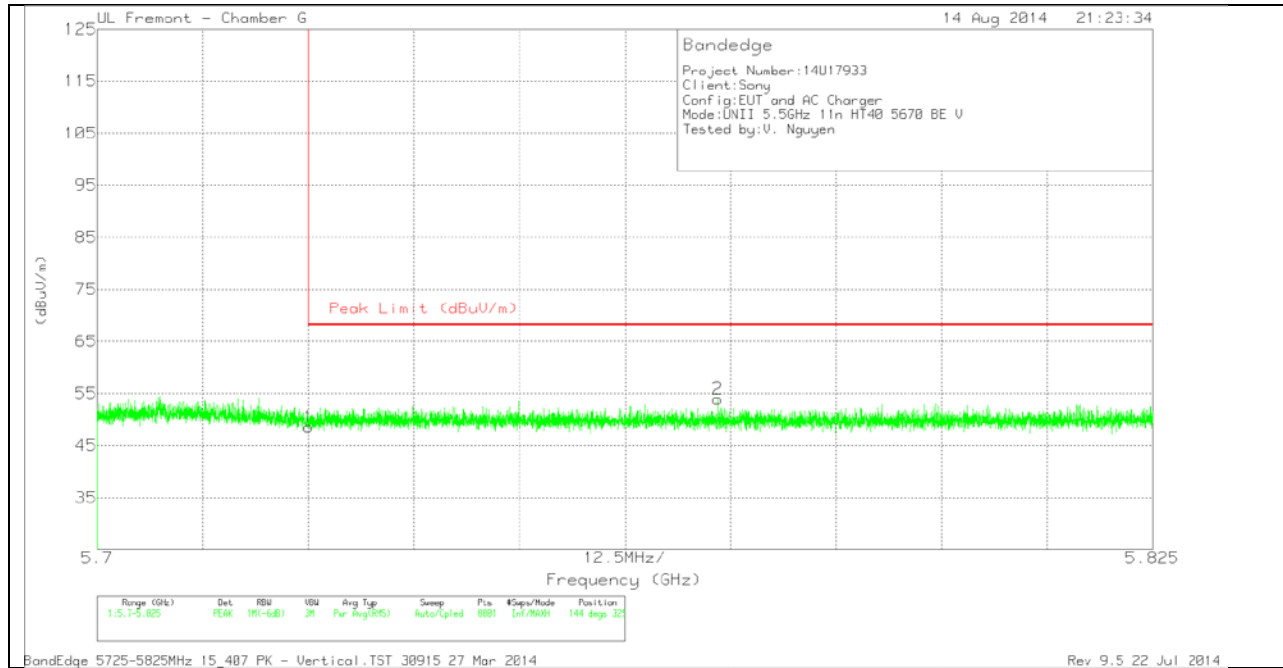


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.82	PK	34.8	-23.5	0	51.12	68.2	-17.08	189	324	H
2	5.825	42.21	PK	34.9	-23.6	0	53.51	68.2	-14.69	189	324	H

PK - Peak detector

**VERTICAL PEAK AND AVERAGE PLOT**



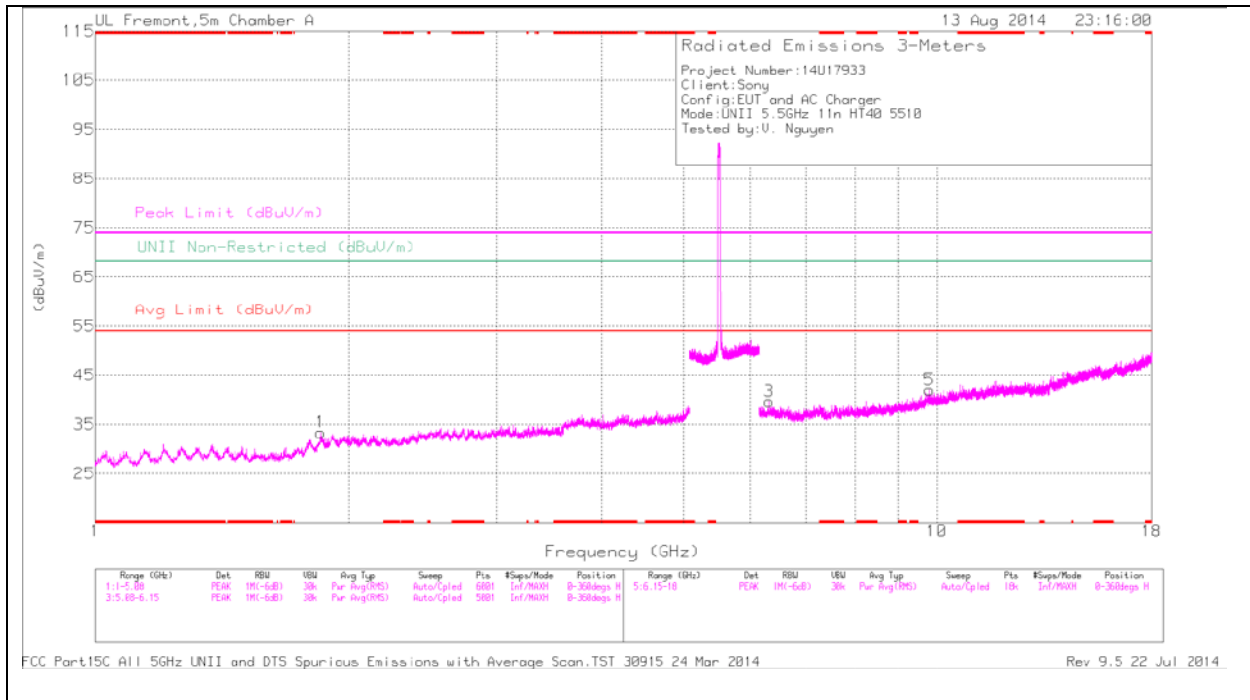
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.27	PK	34.8	-23.5	0	48.57	68.2	-19.63	144	325	V
2	5.773	42.64	PK	34.8	-23.5	0	53.94	68.2	-14.26	144	325	V

PK - Peak detector

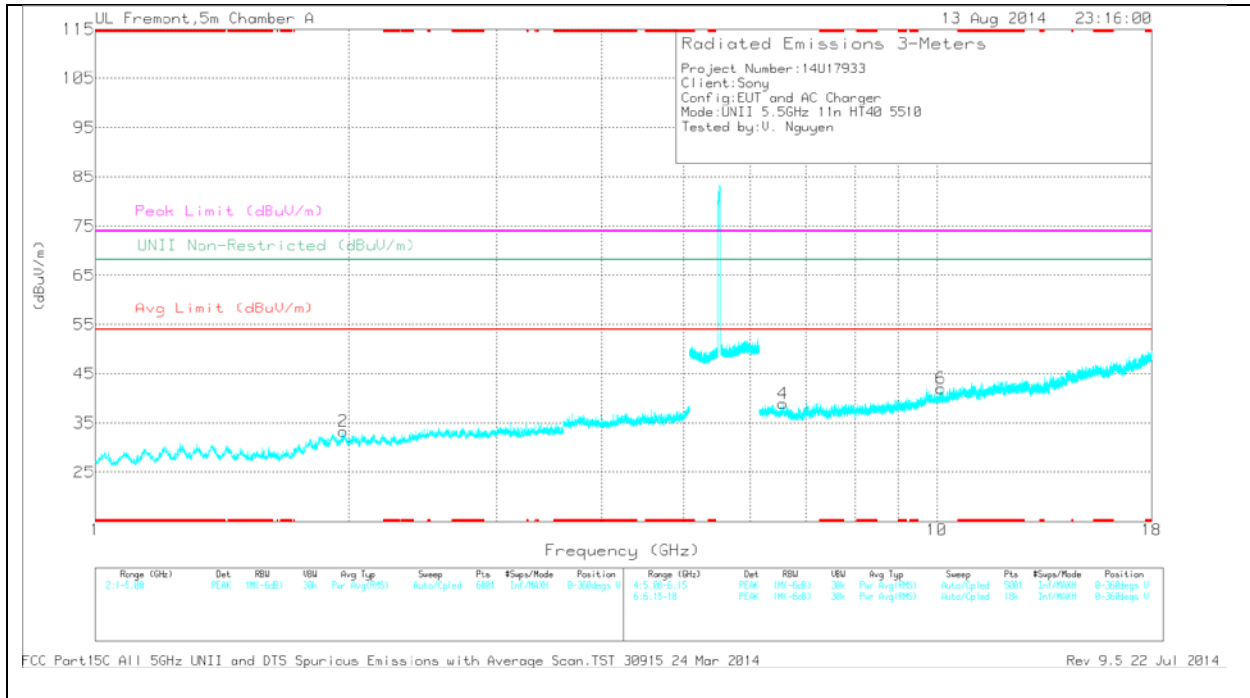
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/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
1	1.852	35.29	PK	31.1	-33	0	33.39	-	-	-	-	68.2	-34.81	0-360	100	H
2	1.97	34.94	PK	32	-33.6	0	33.34	-	-	-	-	68.2	-34.86	0-360	201	V
3	6.319	30.68	PK	35.5	-26.5	0	39.68	-	-	-	-	68.2	-28.52	0-360	100	H
4	6.568	29.72	PK	35.5	-26.3	0	38.92	-	-	-	-	68.2	-29.28	0-360	100	V
5	9.804	27.83	PK	36.9	-22.7	0	42.03	-	-	-	-	68.2	-26.17	0-360	201	H
6	10.112	27.23	PK	37.1	-22.3	0	42.03	-	-	-	-	68.2	-26.17	0-360	100	V

PK - Peak detector

**Radiated Emissions**

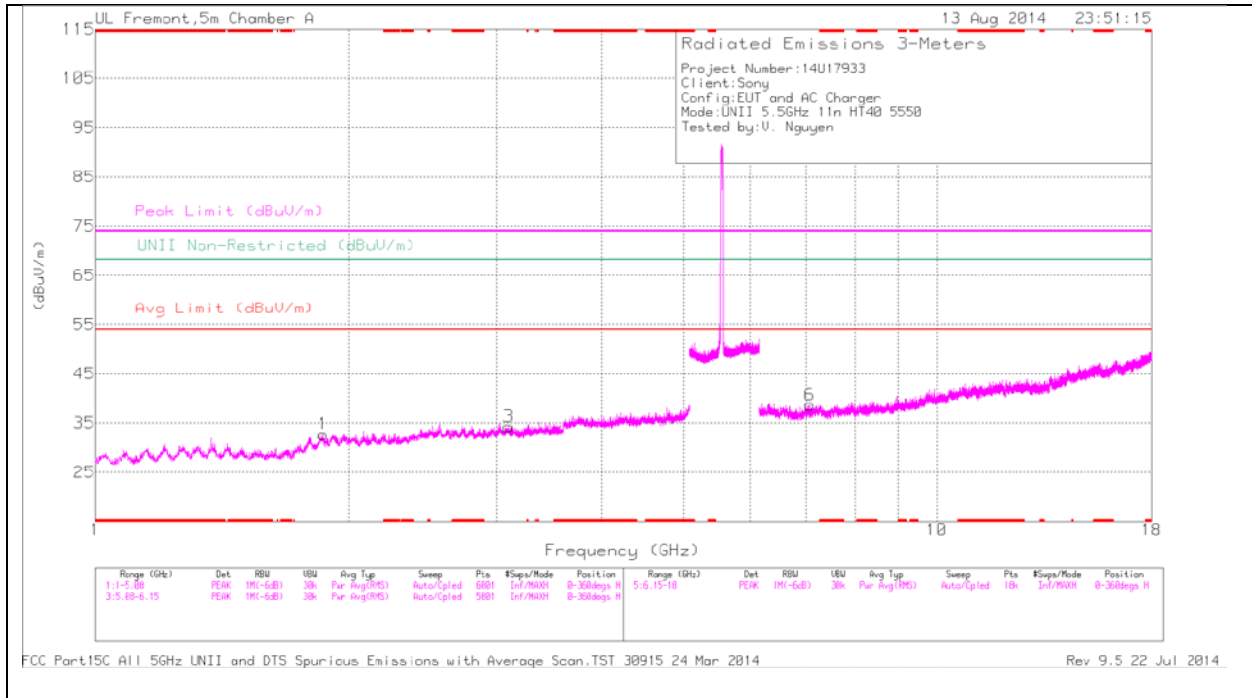
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.802	23.24	AD1	36.9	-22.7	.13	37.56	-	-	-	-	-	-	100	389	H
9.803	34.61	PK1	36.9	-22.7	0	48.81	-	-	-	-	68.2	-19.39	100	389	H

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

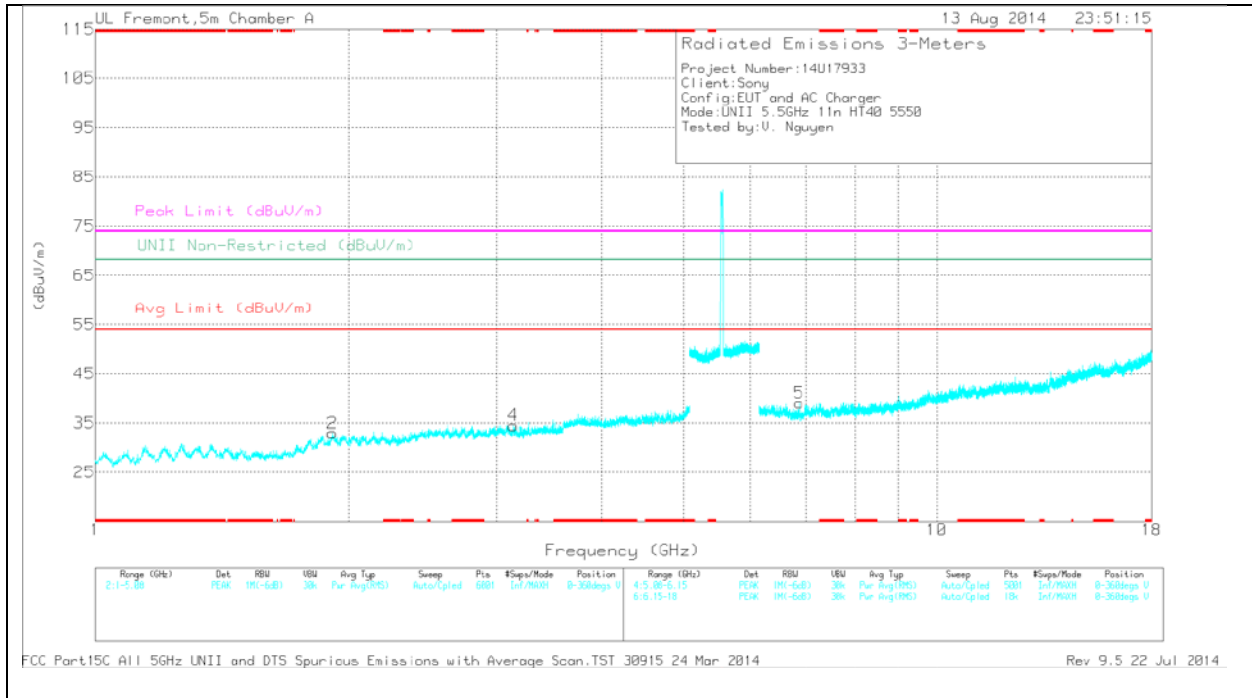


**MID CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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	1.864	34.36	PK	31.3	-32.9	0	32.76	-	-	-	-	68.2	-35.44	0-360	201	H
2	1.913	34.43	PK	31.7	-33.2	0	32.93	-	-	-	-	68.2	-35.27	0-360	201	V
3	3.096	32.37	PK	32.8	-30.9	0	34.27	-	-	-	-	68.2	-33.93	0-360	201	H
4	3.137	33.3	PK	32.7	-31.5	0	34.5	-	-	-	-	68.2	-33.7	0-360	100	V
5	6.868	30.95	PK	35.3	-27.2	0	39.05	-	-	-	-	68.2	-29.15	0-360	201	V
6	7.068	30.36	PK	35.3	-27	0	38.66	-	-	-	-	68.2	-29.54	0-360	201	H

PK - Peak detector

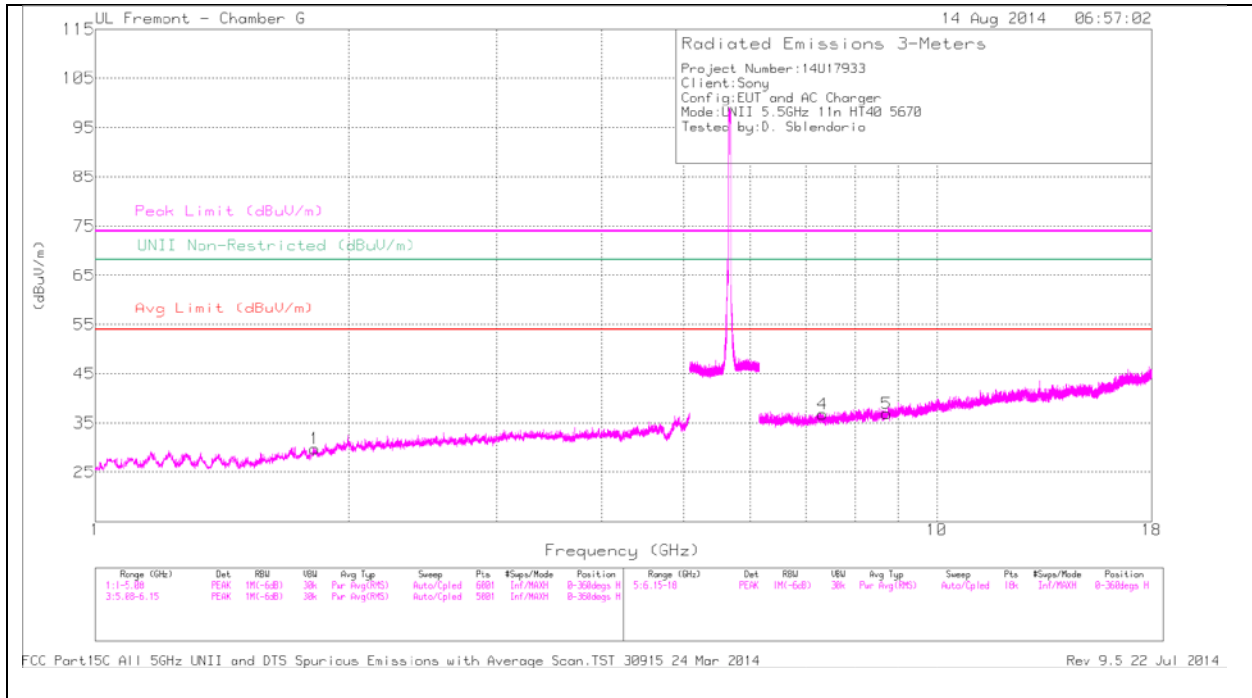
**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/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
6.866	36.68	PK1	35.3	-27.1	0	44.88	-	-	-	-	68.2	-23.32	87	298	V
6.87	25.52	AD1	35.3	-27.4	.13	33.54	-	-	-	-	-	-	87	298	V

PK1 - KDB789033 Method: Peak

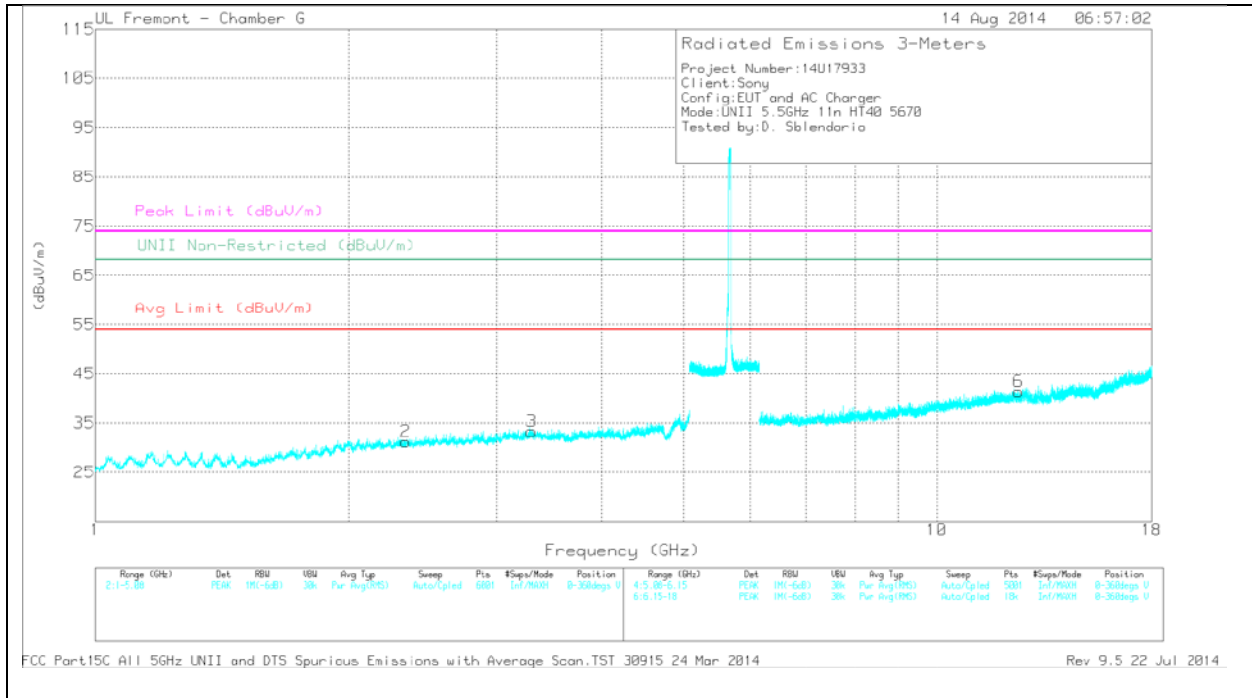
AD1 - KDB789033 Method: AD Primary Power Average

**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
2	* 2.337	34.02	PK	31.7	-34.5	0	31.22	-	-	74	-42.78	-	-	0-360	101	V
4	* 7.315	32.89	PK	35.6	-31.7	0	36.79	-	-	74	-37.21	-	-	0-360	201	H
6	* 12.505	28.99	PK	39	-26.6	0	41.39	-	-	74	-32.61	-	-	0-360	201	V
1	1.824	35.07	PK	30.1	-35.4	0	29.77	-	-	-	-	68.2	-38.43	0-360	201	H
3	3.3	33.78	PK	33	-33.5	0	33.28	-	-	-	-	68.2	-34.92	0-360	101	V
5	8.716	30.79	PK	36	-29.9	0	36.89	-	-	-	-	68.2	-31.31	0-360	201	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
* 2.336	42.85	PK1	31.7	-34.5	0	40.05	-	-	74	-33.95	-	-	0	101	V
* 2.338	31.1	AD1	31.7	-34.5	.13	28.42	54	-25.58	-	-	-	-	0	101	V

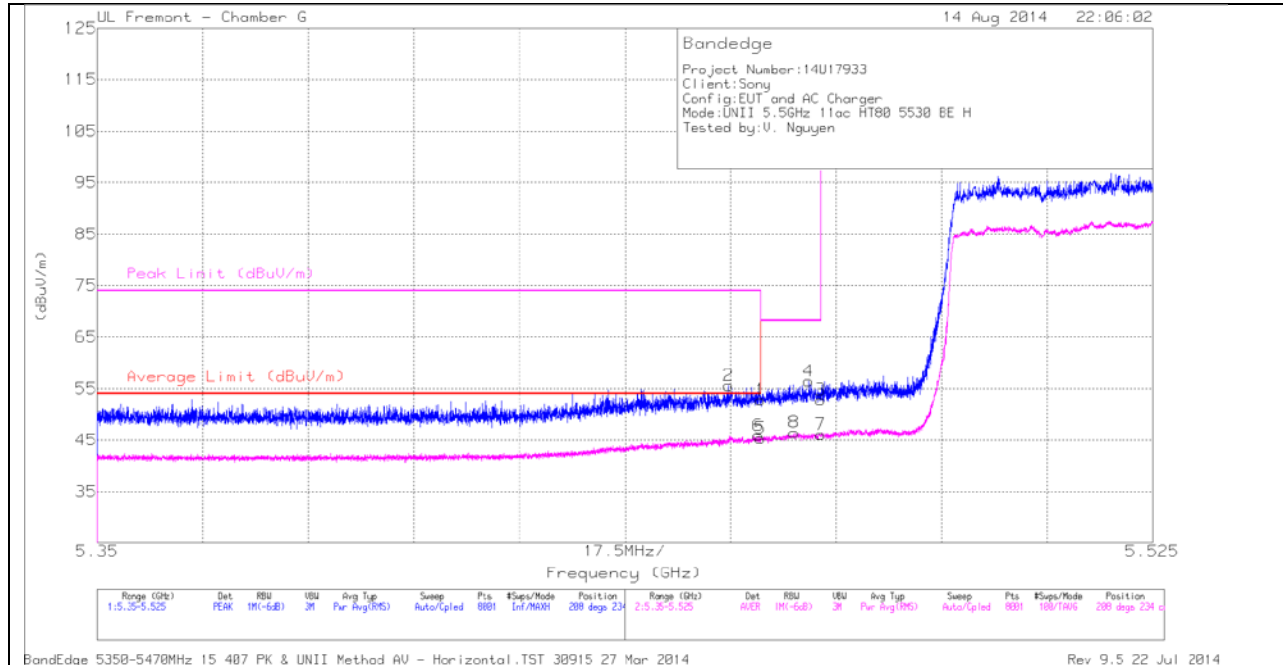
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 11.2.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

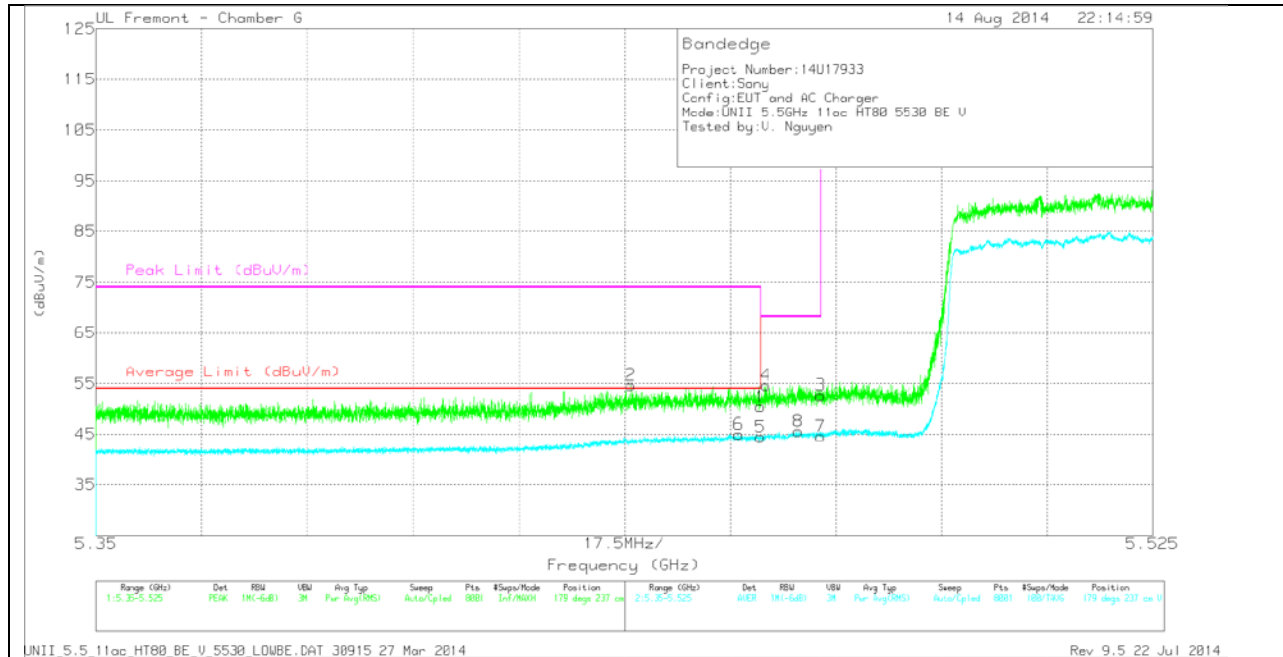
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.69	PK	34.7	-23.6	0	52.79	-	-	74	-21.21	208	234	H
2	* 5.455	44.47	PK	34.7	-23.6	0	55.57	-	-	74	-18.43	208	234	H
5	* 5.46	33.44	RMS	34.7	-23.6	.24	44.78	54	-9.22	-	-	208	234	H
4	5.468	45.32	PK	34.7	-23.6	0	56.42	-	-	68.2	-11.78	208	234	H
3	5.47	41.69	PK	34.7	-23.6	0	52.79	-	-	68.2	-15.41	208	234	H
7	5.47	34.15	RMS	34.7	-23.6	.24	46.07	-	-	-	-	208	234	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitter/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	39.28	PK	34.7	-23.6	0	50.38	-	-	74	-23.62	179	237	V
2	* 5.439	43.54	PK	34.7	-23.6	0	54.64	-	-	74	-19.36	179	237	V
5	* 5.46	32.58	RMS	34.7	-23.6	.24	43.92	54	-10.08	-	-	179	237	V
6	* 5.456	33.09	RMS	34.7	-23.6	.24	44.43	54	-9.57	-	-	179	237	V
4	5.461	43.54	PK	34.7	-23.6	0	54.64	-	-	68.2	-13.56	179	237	V
8	5.466	33.63	RMS	34.7	-23.6	.24	44.97	-	-	-	-	179	237	V
3	5.47	41.61	PK	34.7	-23.6	0	52.71	-	-	68.2	-15.49	179	237	V
7	5.47	32.67	RMS	34.7	-23.6	.24	44.01	-	-	-	-	179	237	V

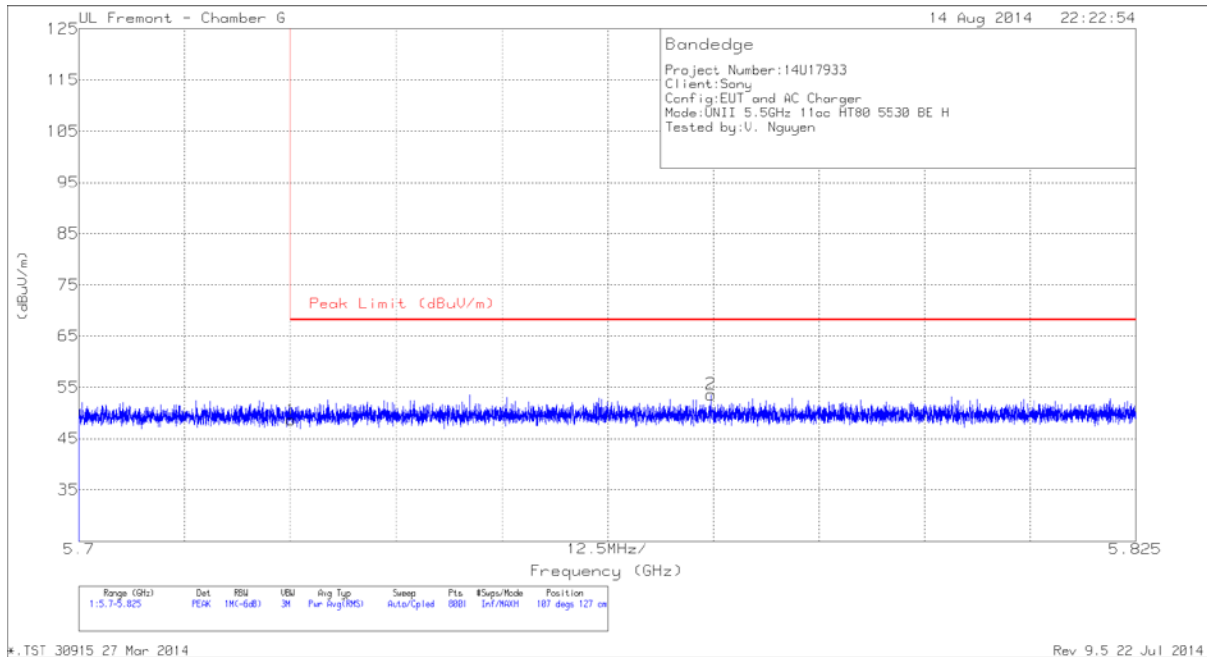
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



**HORIZONTAL PEAK PLOT**

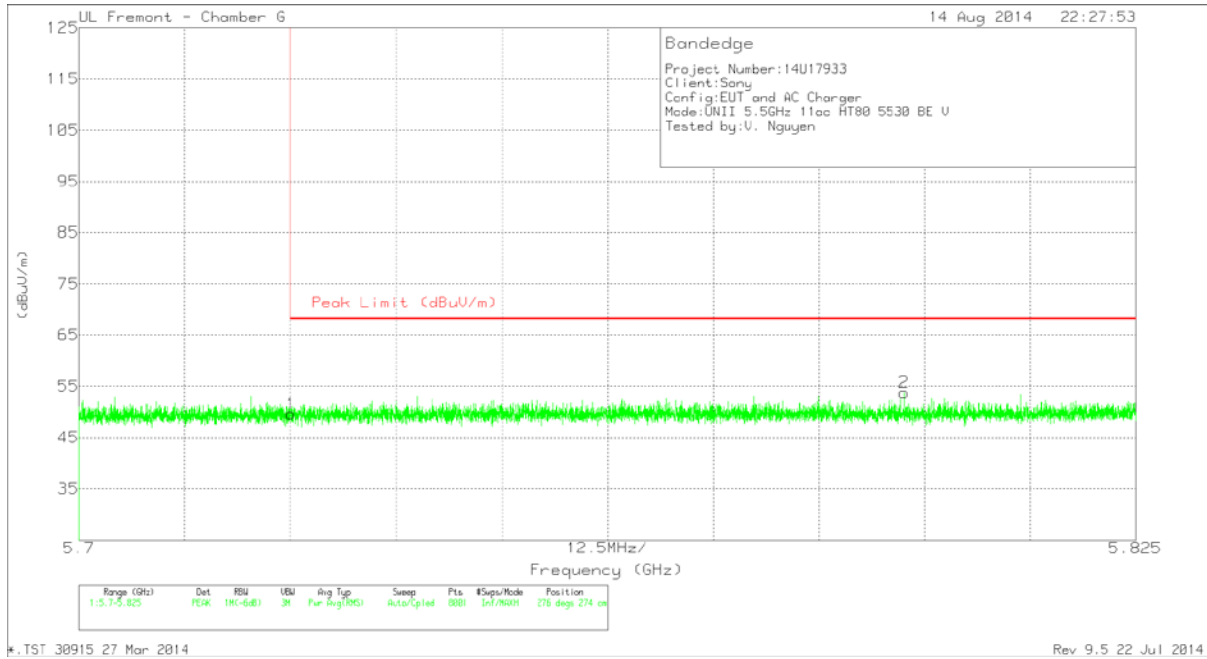


**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.31	PK	34.8	-23.5	0	48.61	68.2	-19.59	107	127	H
2	5.775	42.32	PK	34.8	-23.5	0	53.62	68.2	-14.58	107	127	H

PK - Peak detector

**VERTICAL PEAK PLOT**



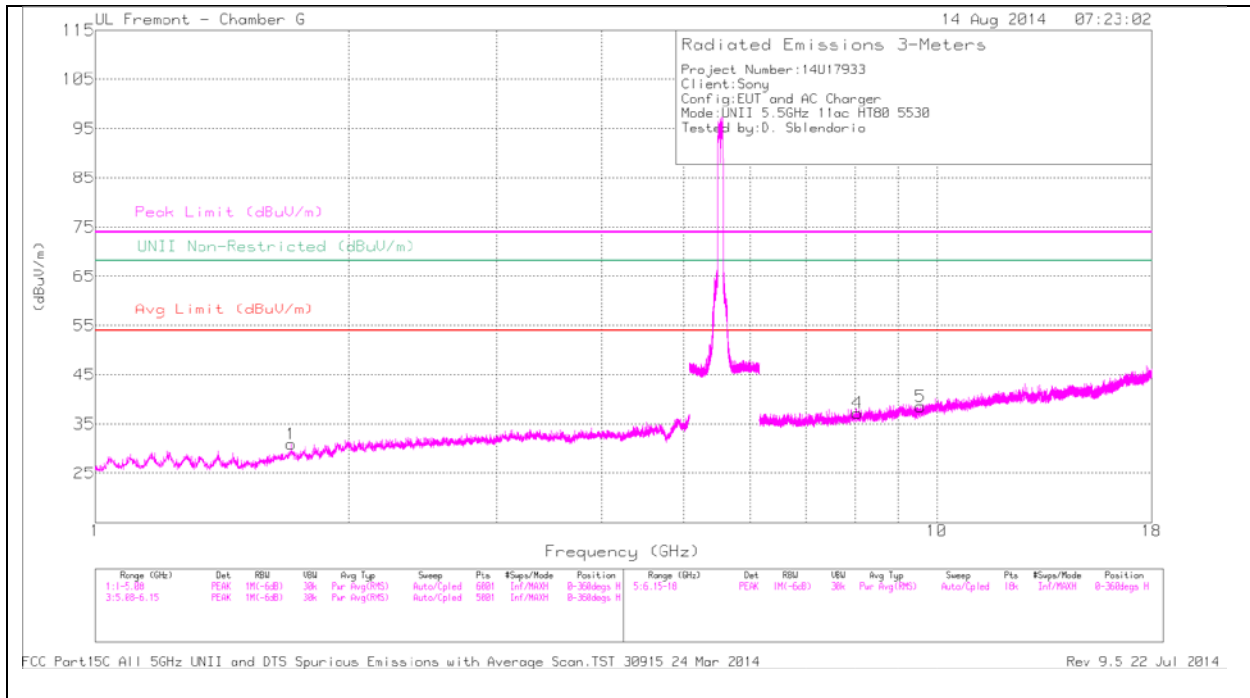
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.3	PK	34.8	-23.5	0	49.6	68.2	-18.6	276	274	V
2	5.798	42.45	PK	34.9	-23.6	0	53.75	68.2	-14.45	276	274	V

PK - Peak detector

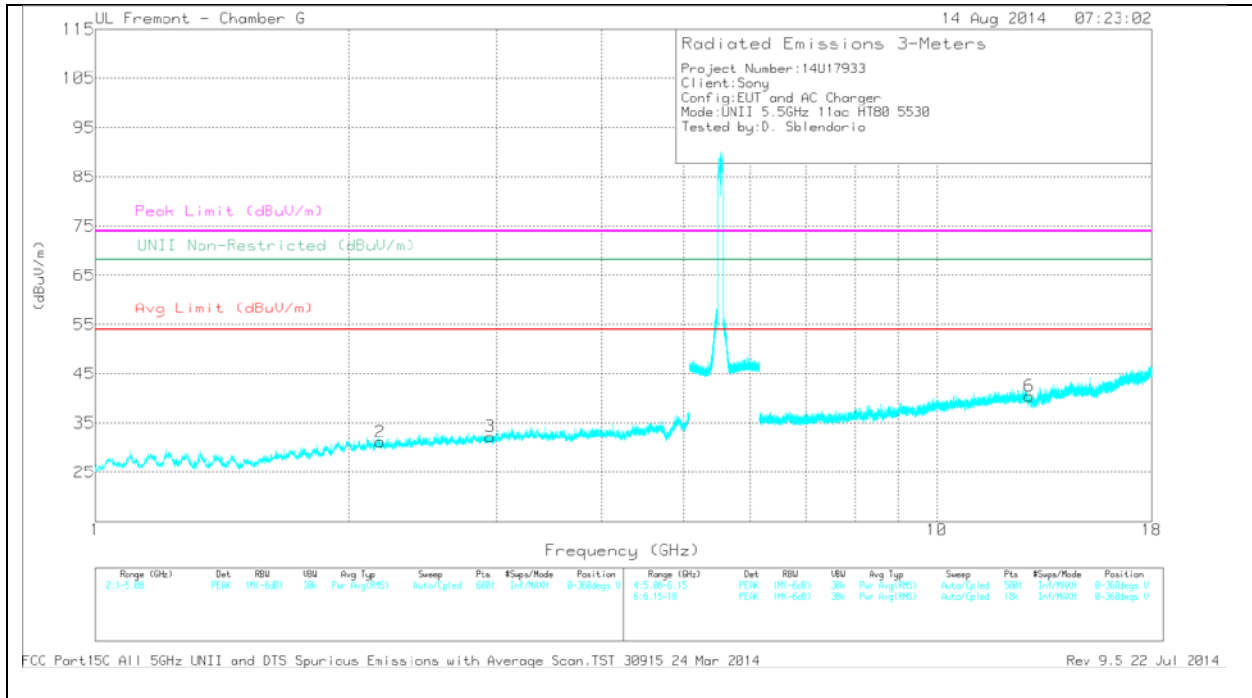
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
1	* 1.709	35.99	PK	29.3	-34.4	0	30.89	-	-	74	-43.11	-	-	0-360	201	H
4	* 8.05	31.32	PK	35.8	-29.9	0	37.22	-	-	74	-36.78	-	-	0-360	201	H
2	2.18	34.35	PK	31.4	-34.6	0	31.15	-	-	-	-	68.2	-37.05	0-360	101	V
3	2.949	34.34	PK	32.4	-34.5	0	32.24	-	-	-	-	68.2	-35.96	0-360	201	V
5	9.571	29.82	PK	36.8	-28.1	0	38.52	-	-	-	-	68.2	-29.68	0-360	201	H
6	12.896	28.37	PK	39	-26.9	0	40.47	-	-	-	-	68.2	-27.73	0-360	201	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
* 1.708	42.82	PK1	29.3	-34.4	0	37.72	-	-	74	-36.28	-	-	0	202	H
* 1.709	31.72	AD1	29.3	-34.4	.24	26.86	54	-27.14	-	-	-	-	0	202	H

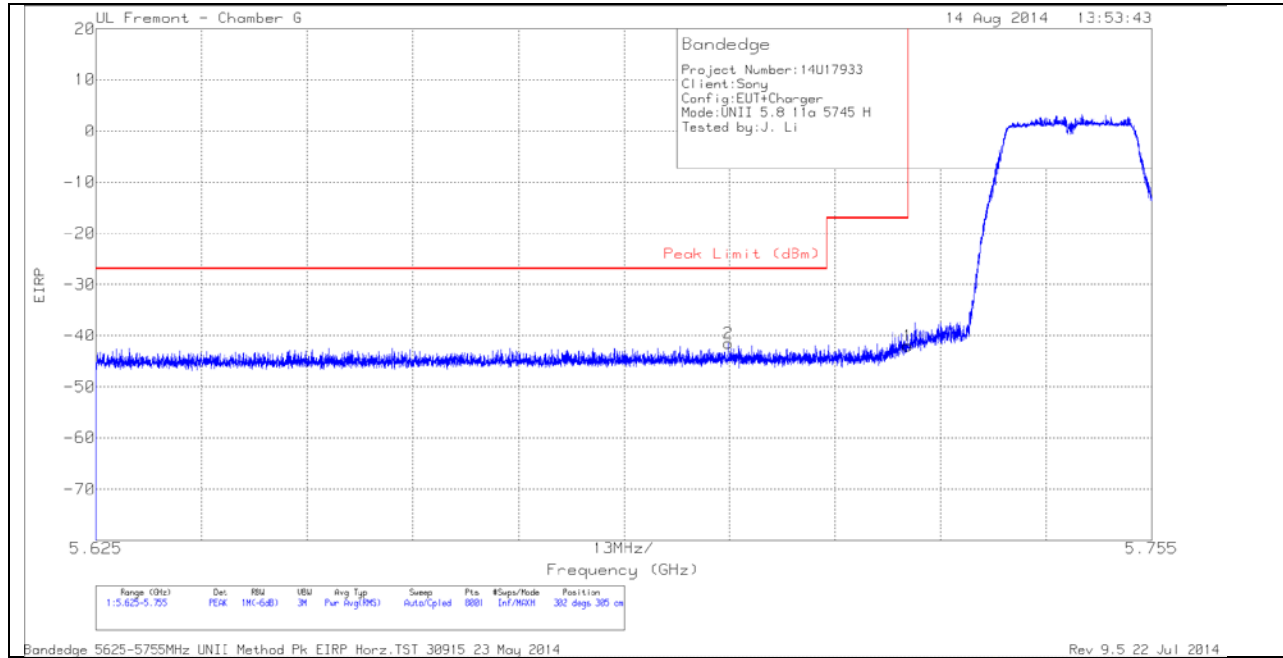
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 11.3. 5.8 GHz

#### 11.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS HORIZONTAL PEAK PLOT

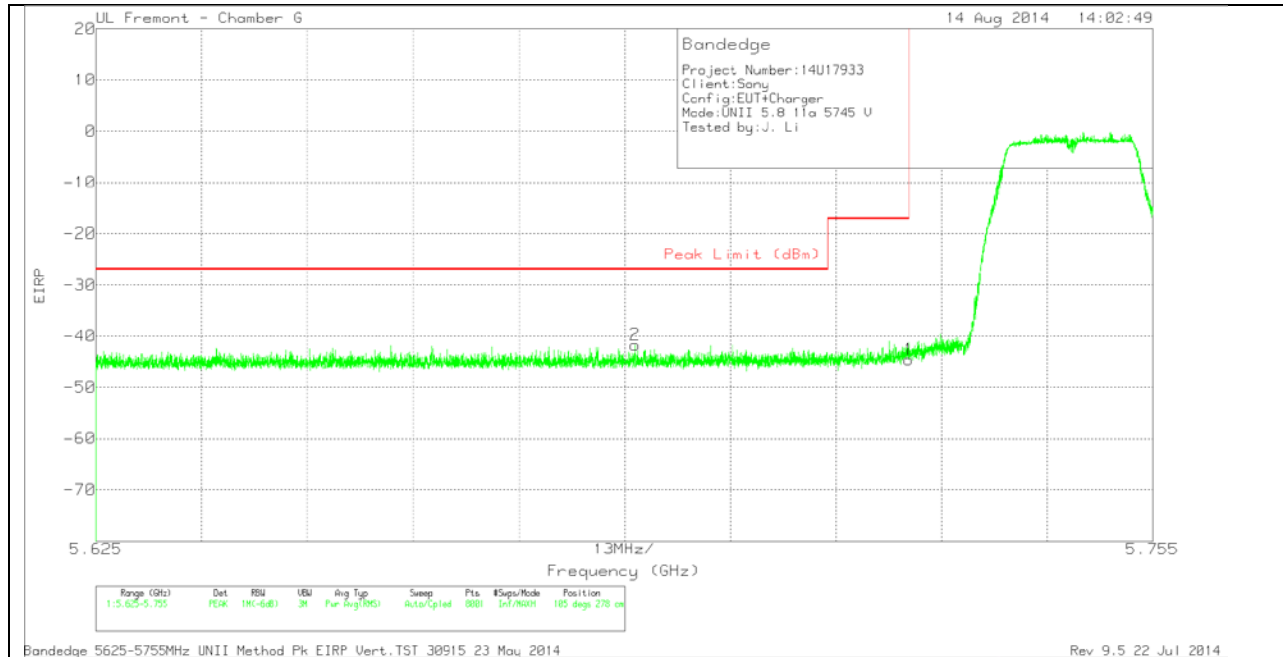


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.703	-64.44	PK	34.8	-23.6	11.8	-41.44	-27	-14.44	302	305	H
1	5.725	-65.13	PK	34.8	-23.5	11.8	-42.03	-17	-25.03	302	305	H

PK - Peak detector

**VERTICAL PEAK PLOT**



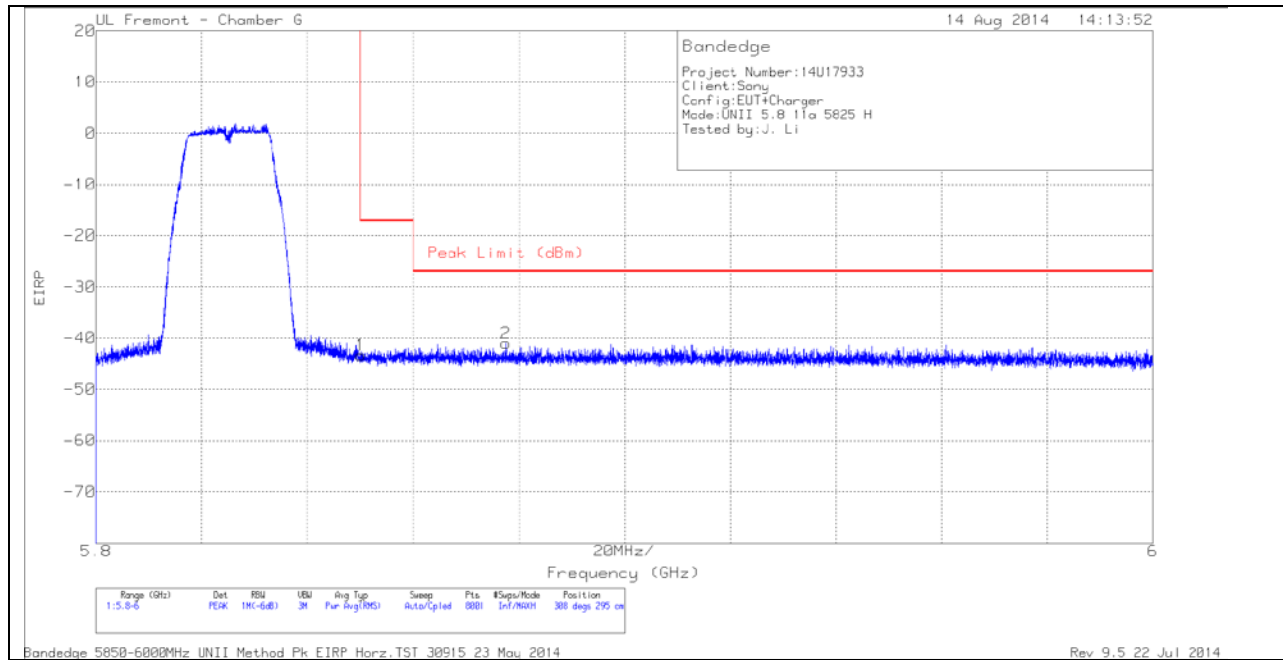
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.691	-64.78	PK	34.8	-23.5	11.8	-41.68	-27	-14.68	105	278	V
1	5.725	-67.72	PK	34.8	-23.5	11.8	-44.62	-17	-27.62	105	278	V

PK - Peak detector

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT



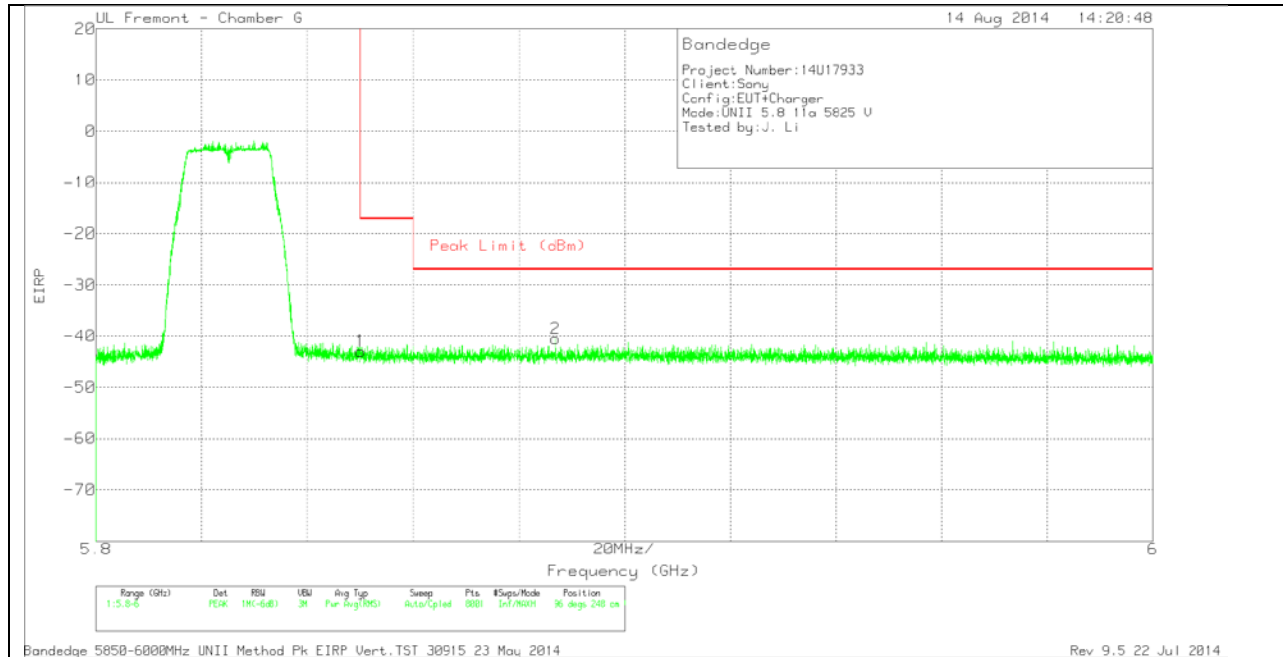
#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.59	PK	35	-23.6	11.8	-43.39	-17	-26.39	308	295	H
2	5.878	-64.2	PK	35	-23.6	11.8	-41	-27	-14	308	295	H

PK - Peak detector



**VERTICAL PEAK PLOT**

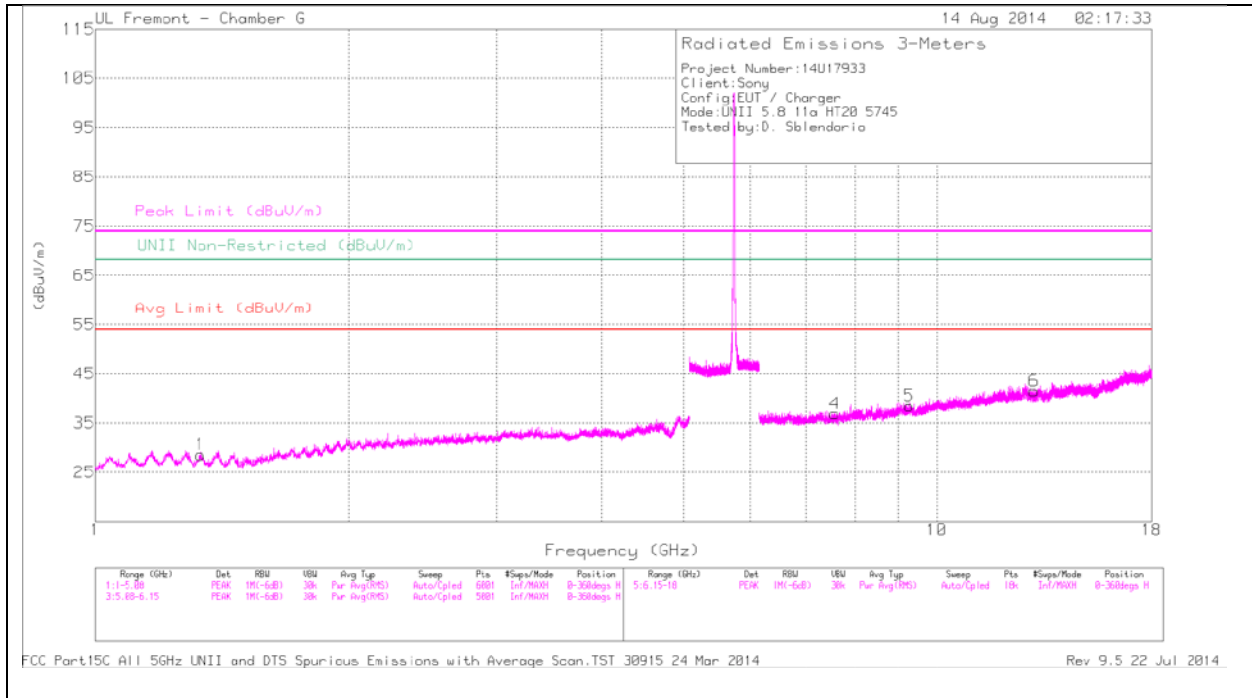


**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.15	PK	35	-23.6	11.8	-42.95	-17	-25.95	96	248	V
2	5.887	-63.69	PK	35	-23.6	11.8	-40.49	-27	-13.49	96	248	V

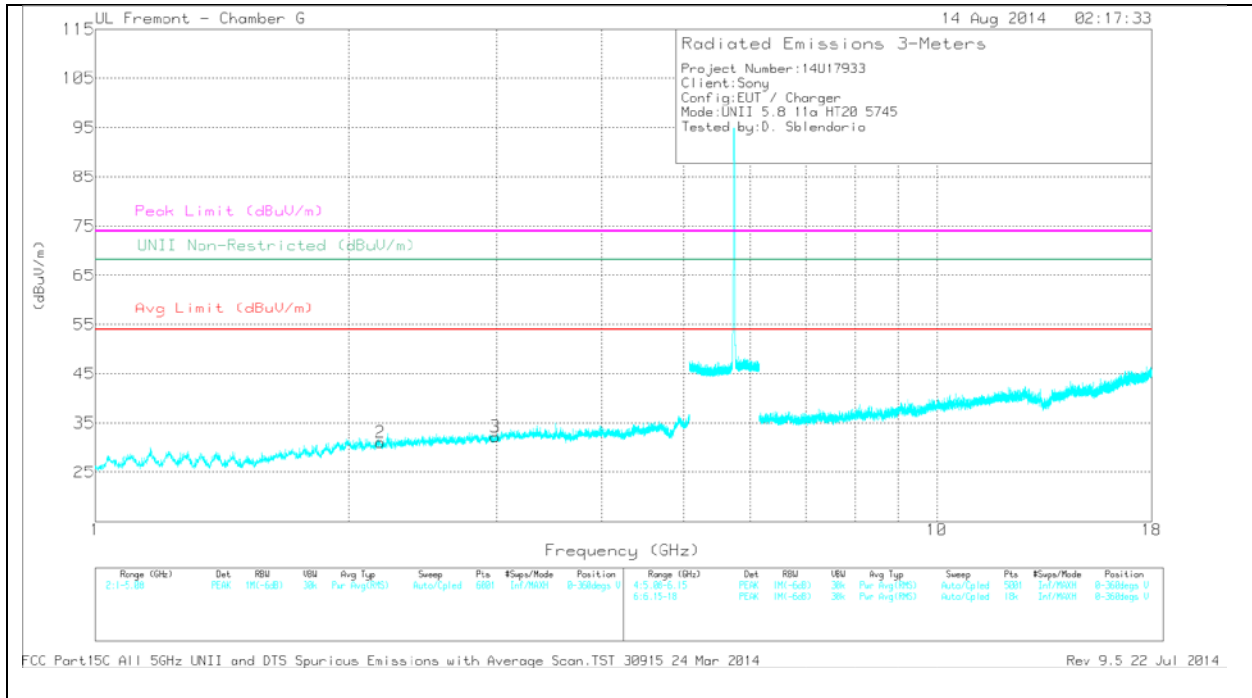
PK - Peak detector

**LOW CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (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	* 1.333	35.55	PK	28.8	-35.8	28.55	-	-	74	-45.45	-	-	0-360	201	H
4	* 7.565	32.2	PK	35.6	-30.9	36.9	-	-	74	-37.1	-	-	0-360	101	H
2	2.183	34.25	PK	31.4	-34.6	31.05	-	-	-	-	68.2	-37.15	0-360	101	V
3	2.989	34.2	PK	32.4	-34.4	32.2	-	-	-	-	68.2	-36	0-360	201	V
5	9.273	30.68	PK	36.5	-28.7	38.48	-	-	-	-	68.2	-29.72	0-360	201	H
6	13.053	30.02	PK	39	-27.5	41.52	-	-	-	-	68.2	-26.68	0-360	101	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

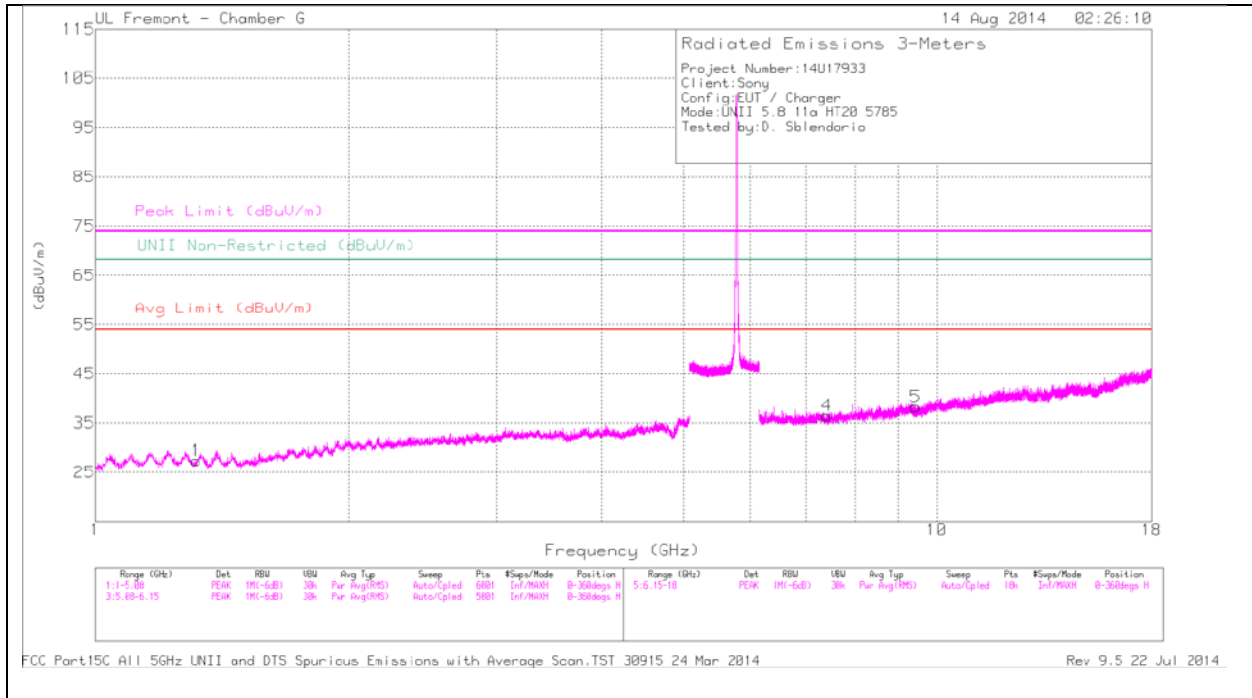
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.332	43.69	PK1	28.8	-35.8	36.69	-	-	74	-37.31	-	-	360	201	H
* 1.333	32.67	AD1	28.8	-35.8	25.67	54	-28.33	-	-	-	-	360	201	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

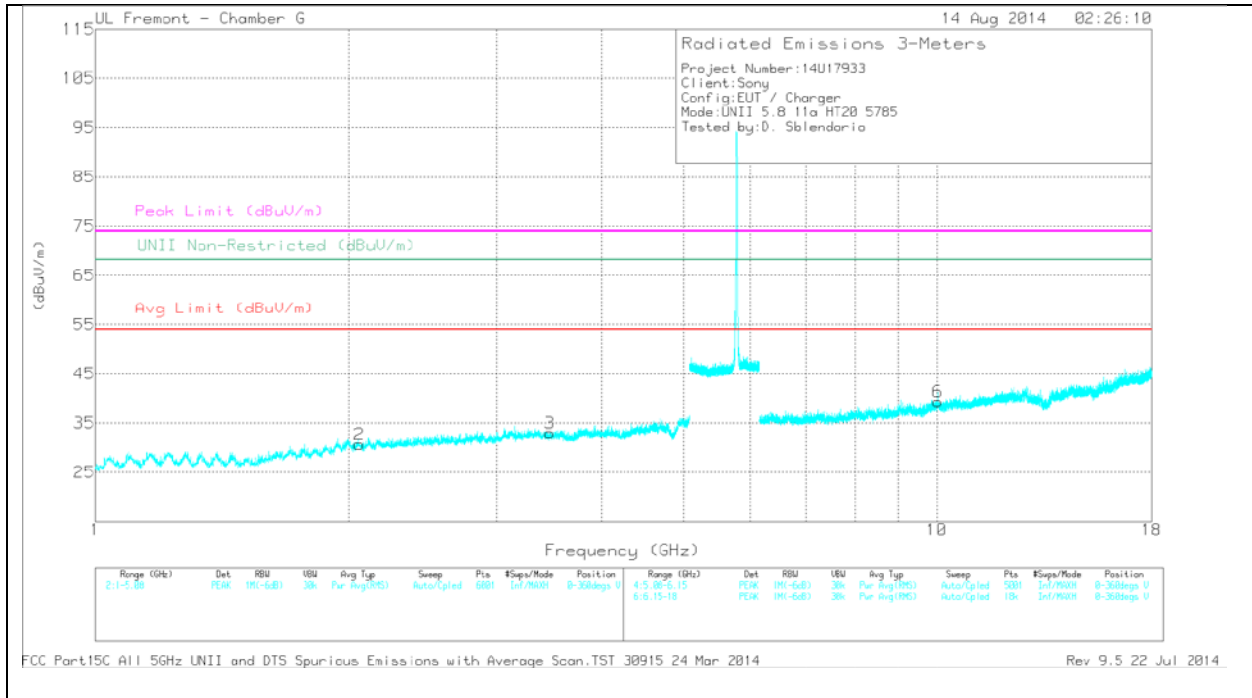
AD1 - KDB789033 Method: AD Primary Power Average

**MID CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL DATA**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr /Pad (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	* 1.317	34.35	PK	28.9	-35.9	27.35	-	-	74	-46.65	-	-	0-360	100	H
4	* 7.403	32.22	PK	35.6	-31.3	36.52	-	-	74	-37.48	-	-	0-360	201	H
5	* 9.445	30.71	PK	36.7	-29.1	38.31	-	-	74	-35.69	-	-	0-360	101	H
2	2.059	34.22	PK	31.3	-34.9	30.62	-	-	-	-	68.2	-37.58	0-360	101	V
3	3.465	34.25	PK	32.8	-34.1	32.95	-	-	-	-	68.2	-35.25	0-360	101	V
6	10.028	29.34	PK	37.4	-27.4	39.34	-	-	-	-	68.2	-28.86	0-360	101	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

**Radiated Emissions**

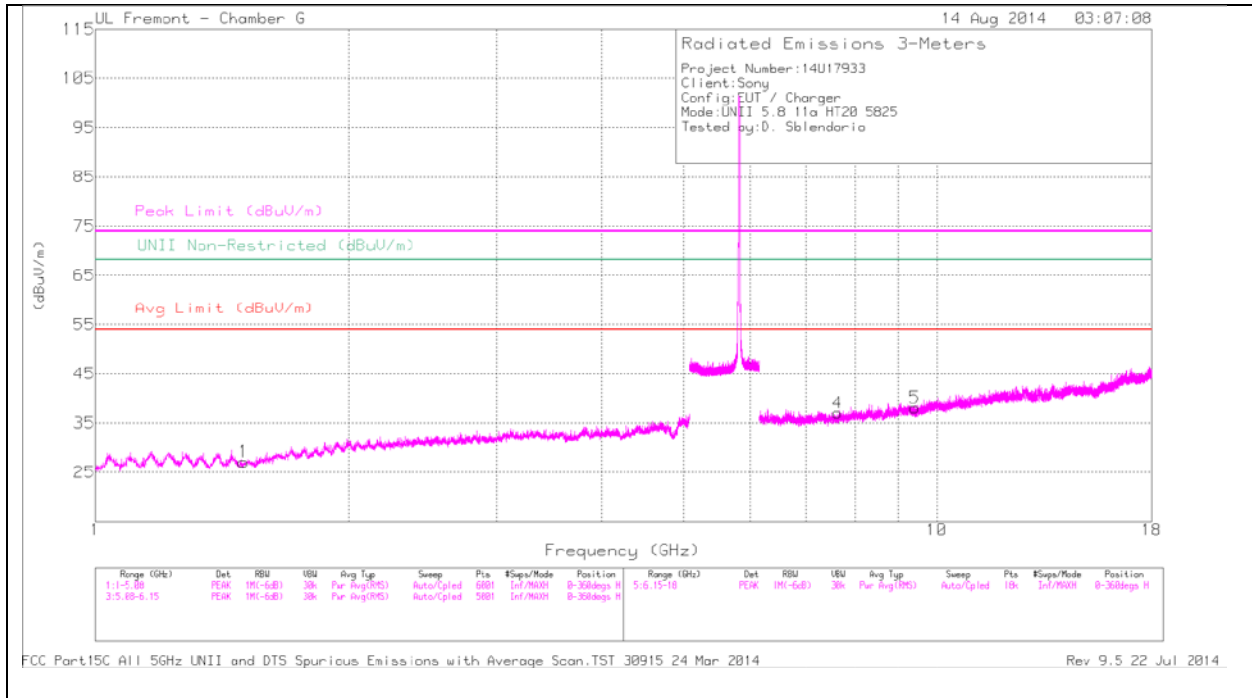
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.318	43.06	PK1	28.8	-35.9	35.96	-	-	74	-38.04	-	-	360	101	H
* 1.319	31.36	AD1	28.8	-35.9	24.26	54	-29.74	-	-	-	-	360	101	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HIGH CHANNEL HORIZONTAL**



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.