

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	1.823	31.13	PK	30.4	-32.5	29.03	-	-	-	-	68.2	-39.17	0-360	200	H
2	2.063	31.2	PK	31.5	-31.9	30.8	-	-	-	-	68.2	-37.4	0-360	100	H
3	3.139	30.73	PK	32.7	-31.1	32.33	-	-	-	-	68.2	-35.87	0-360	100	H
4	4.413	32.42	PK	33.7	-29.9	36.22	-	-	-	-	68.2	-31.98	0-360	100	V
5	6.745	30.64	PK	35.6	-28.2	38.04	-	-	-	-	68.2	-30.16	0-360	100	V
6	10.588	26.4	PK	37.6	-22.8	41.2	-	-	-	-	68.2	-27	0-360	200	V

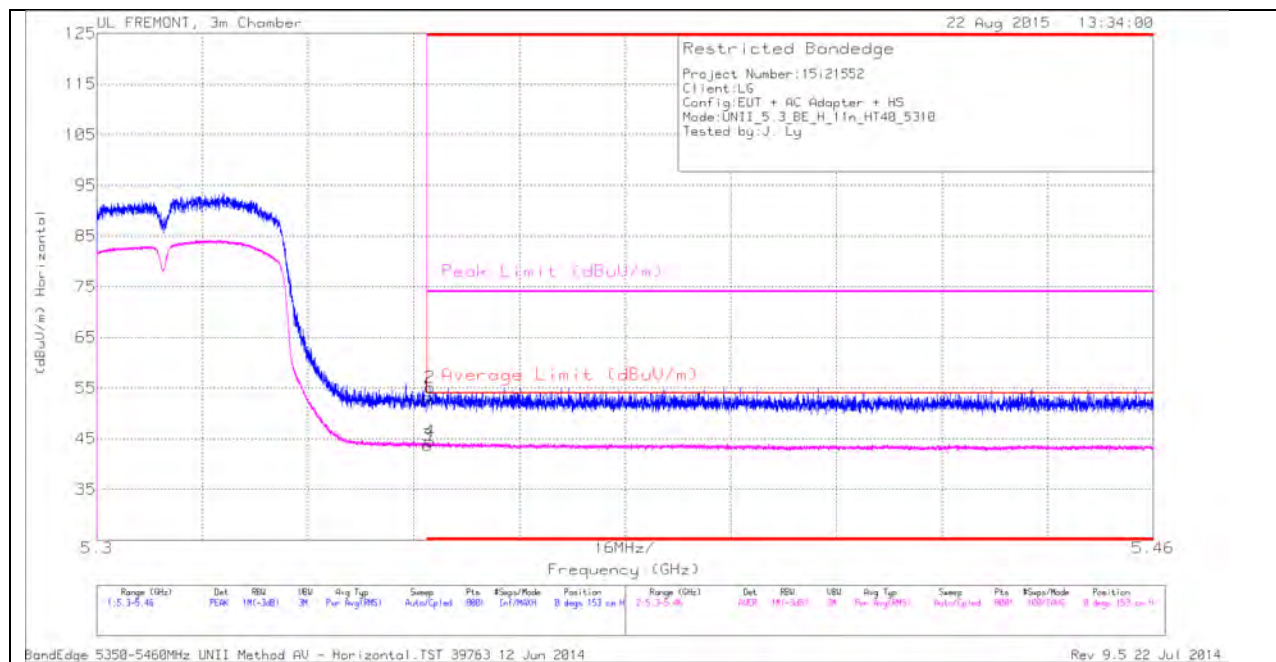
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
1.823	40.79	PK1	30.4	-32.5	38.69	-	-	-	-	68.2	-29.51	0	200	H
2.063	40.85	PK1	31.5	-31.9	40.45	-	-	-	-	68.2	-27.75	0	100	H
3.138	40.22	PK1	32.7	-31	41.92	-	-	-	-	68.2	-26.28	0	100	H
4.412	40.53	PK1	33.7	-29.9	44.33	-	-	-	-	68.2	-23.87	0	100	V
6.747	39.92	PK1	35.6	-28.2	47.32	-	-	-	-	68.2	-20.88	0	100	V
10.588	36.18	PK1	37.6	-22.8	50.98	-	-	-	-	68.2	-17.22	0	200	V

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

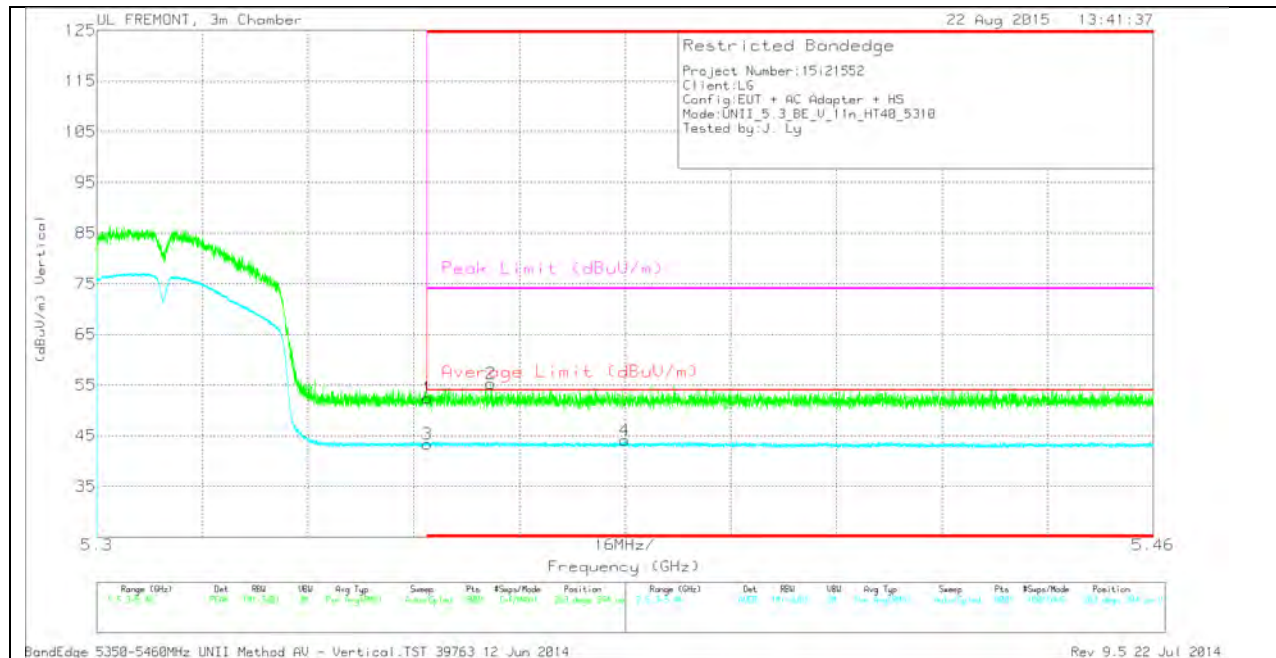
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (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	39.19	PK	34.5	-20.5	53.19	-	-	74	-20.81	0	153	H
2	* 5.35	41.18	PK	34.5	-20.5	55.18	-	-	74	-18.82	0	153	H
3	* 5.35	29.76	RMS	34.5	-20.5	43.76	54	-10.24	-	-	0	153	H
4	* 5.35	30.44	RMS	34.5	-20.5	44.44	54	-9.56	-	-	0	153	H

VERTICAL PEAK AND AVERAGE PLOT

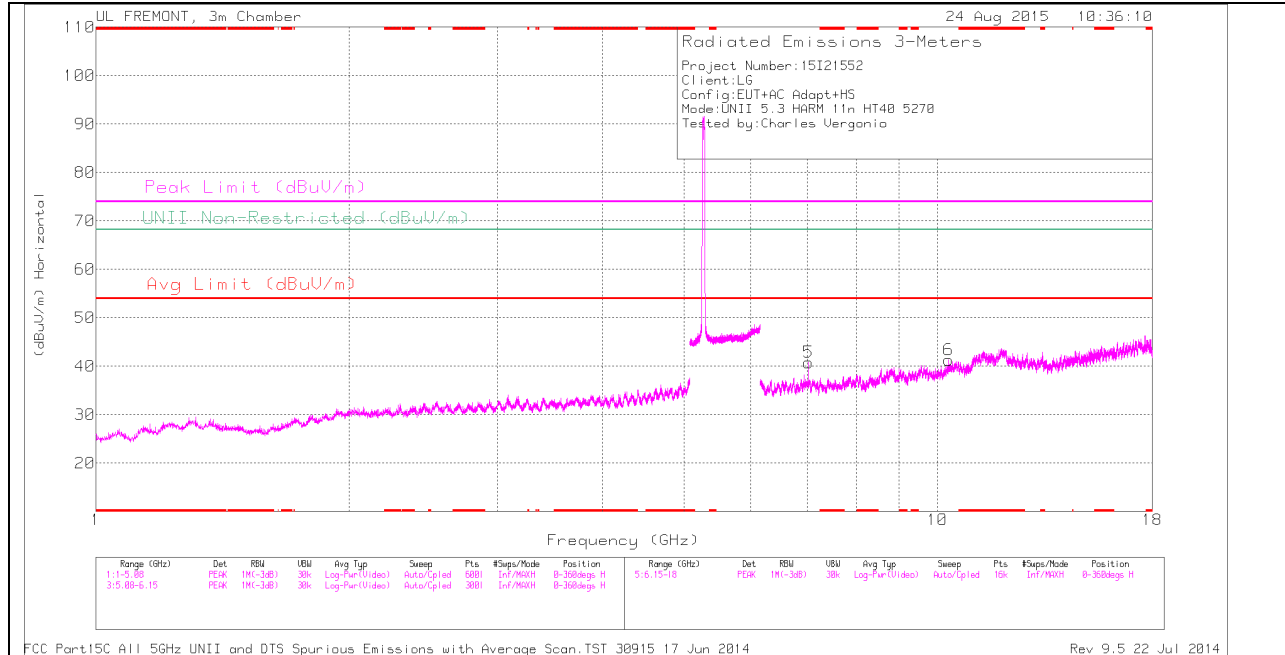


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (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	38.43	PK	34.5	-20.5	52.43	-	-	74	-21.57	263	394	V
2	* 5.36	41.21	PK	34.5	-20.5	55.21	-	-	74	-18.79	263	394	V
3	* 5.35	29.34	RMS	34.5	-20.5	43.34	54	-10.66	-	-	263	394	V
4	* 5.38	30.06	RMS	34.6	-20.6	44.06	54	-9.94	-	-	263	394	V

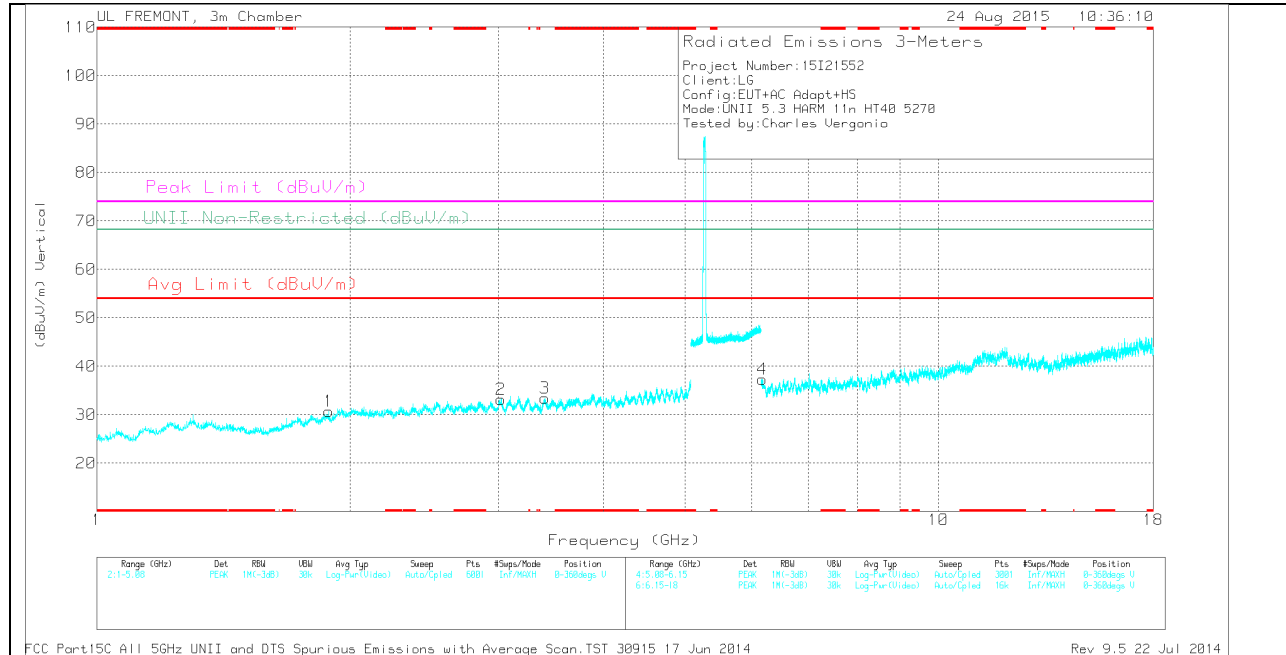
HARMONICS AND SPURIOUS EMISSIONS

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

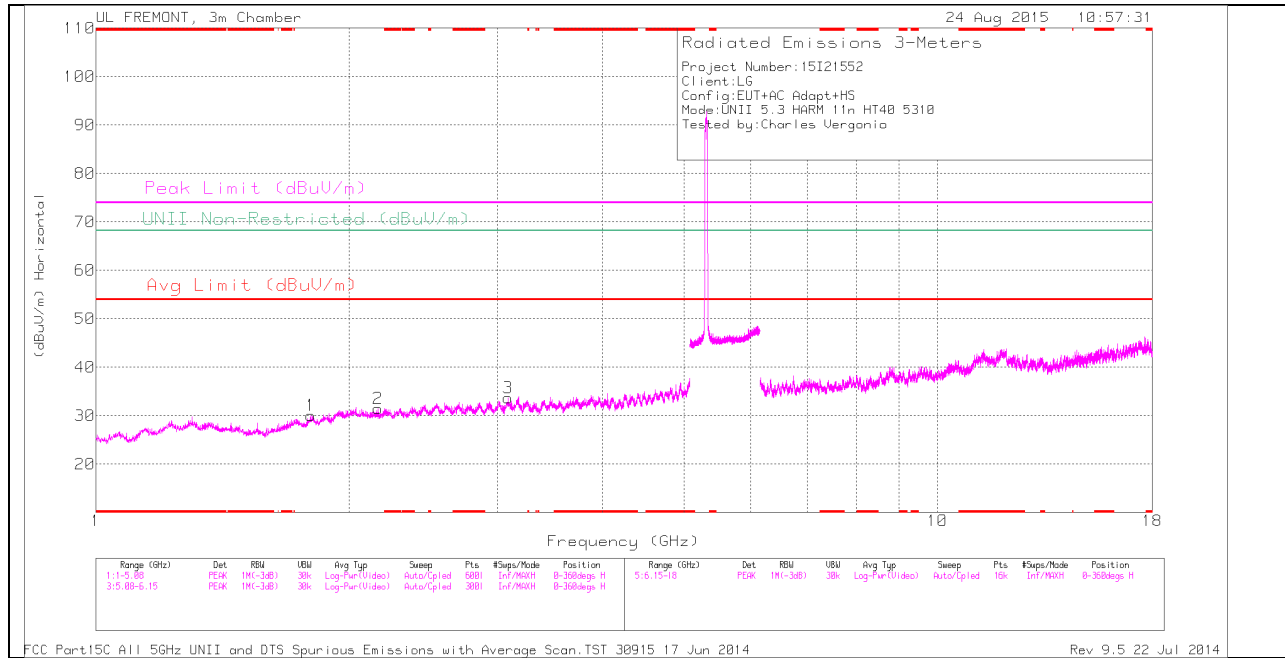
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.886	32.12	PK	31	-32.4	30.72	-	-	-	-	68.2	-37.48	0-360	100	V
2	3.019	31.49	PK	32.7	-31	33.19	-	-	-	-	68.2	-35.01	0-360	100	V
3	3.408	31.39	PK	32.7	-30.7	33.39	-	-	-	-	68.2	-34.81	0-360	200	V
4	6.171	30.18	PK	35.3	-28.2	37.28	-	-	-	-	68.2	-30.92	0-360	100	V
5	7.027	33.27	PK	35.6	-28.1	40.77	-	-	-	-	68.2	-27.43	0-360	100	H
6	10.311	27.39	PK	37.1	-23.2	41.29	-	-	-	-	68.2	-26.91	0-360	100	H

PK - Peak detector

RADIATED EMISSIONS

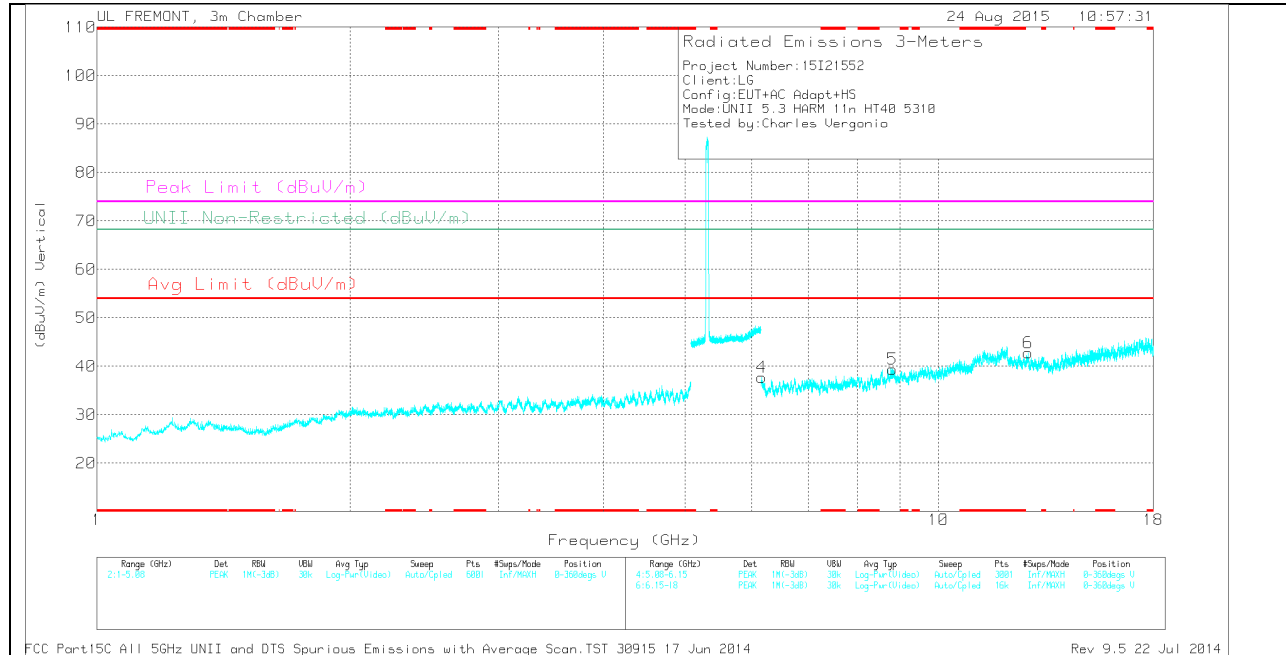
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.884	40.79	PK1	31	-32.3	39.49	-	-	-	-	68.2	-28.71	3	100	V
3.018	40.91	PK1	32.7	-31	42.61	-	-	-	-	68.2	-25.59	3	100	V
3.408	40.72	PK1	32.7	-30.7	42.72	-	-	-	-	68.2	-25.48	3	200	V
6.172	39.28	PK1	35.3	-28.3	46.28	-	-	-	-	68.2	-21.92	305	100	V
7.026	40.79	PK1	35.6	-28.1	48.29	-	-	-	-	68.2	-19.91	305	100	H
10.312	35.9	PK1	37.1	-23.2	49.8	-	-	-	-	68.2	-18.4	305	100	H

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 T119 (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	1.8	32.06	PK	30.2	-32.2	30.06	-	-	-	-	68.2	-38.14	0-360	100	H
2	2.163	31.93	PK	31.5	-32	31.43	-	-	-	-	68.2	-36.77	0-360	200	H
3	3.089	32.26	PK	32.8	-31.4	33.66	-	-	-	-	68.2	-34.54	0-360	200	H
4	6.169	30.52	PK	35.3	-28.1	37.72	-	-	-	-	68.2	-30.48	0-360	200	V
5	8.821	27.76	PK	35.9	-24.2	39.46	-	-	-	-	68.2	-28.74	0-360	200	V
6	12.783	28.63	PK	39.1	-24.9	42.83	-	-	-	-	68.2	-25.37	0-360	200	V

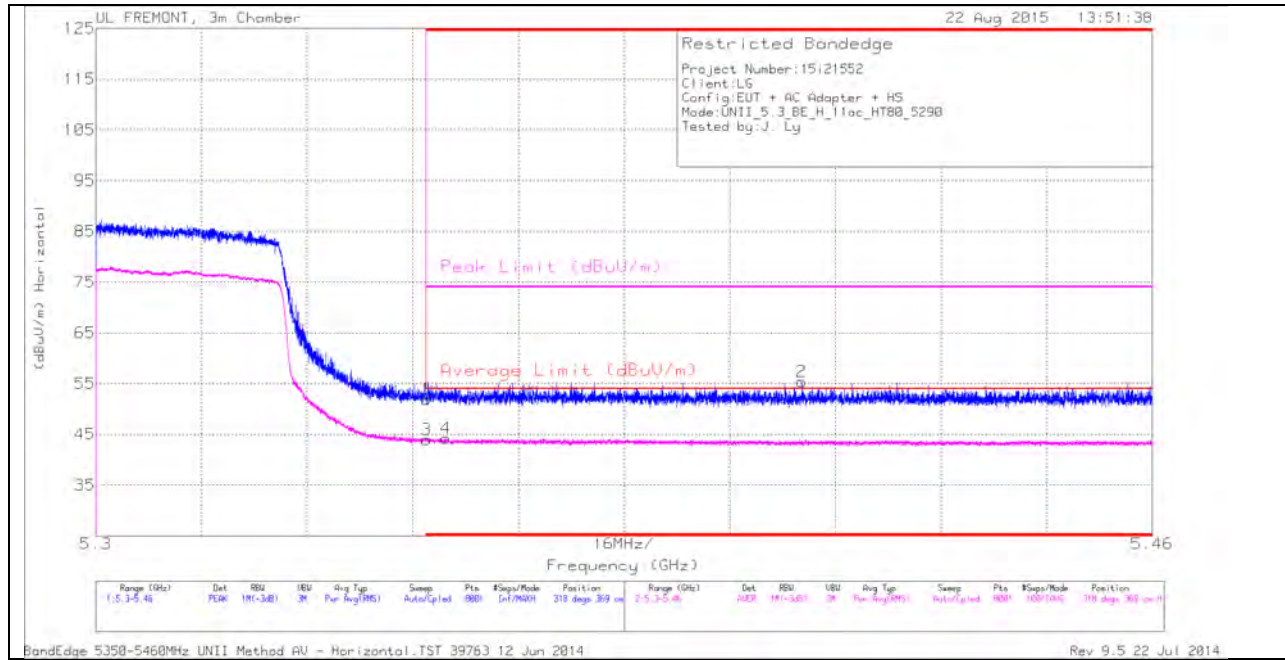
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
1.8	41.34	PK1	30.2	-32.2	39.34	-	-	-	-	68.2	-28.86	359	100	H
2.164	40.56	PK1	31.4	-32.1	39.86	-	-	-	-	68.2	-28.34	359	200	H
3.091	42.13	PK1	32.8	-31.4	43.53	-	-	-	-	68.2	-24.67	359	200	H
6.17	40.09	PK1	35.3	-28.2	47.19	-	-	-	-	68.2	-21.01	359	200	V
8.822	36.4	PK1	35.9	-24.2	48.1	-	-	-	-	68.2	-20.1	359	200	V
12.784	37.61	PK1	39.1	-24.9	51.81	-	-	-	-	68.2	-16.39	359	200	V

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

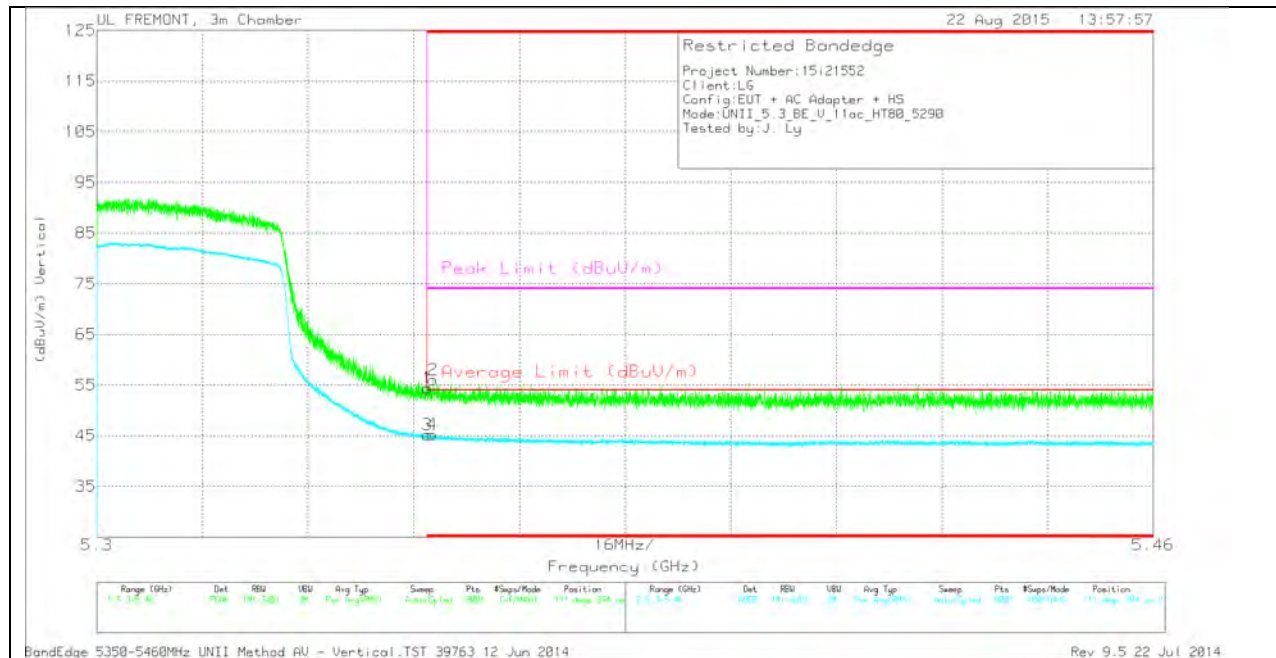
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Ftr/Pad (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	37.85	PK	34.5	-20.5	51.85	-	-	74	-22.15	318	369	H
2	* 5.407	41.37	PK	34.6	-20.6	55.37	-	-	74	-18.63	318	369	H
3	* 5.35	30	RMS	34.5	-20.5	44	54	-10	-	-	318	369	H
4	* 5.353	30.33	RMS	34.5	-20.6	44.23	54	-9.77	-	-	318	369	H

VERTICAL PEAK AND AVERAGE PLOT

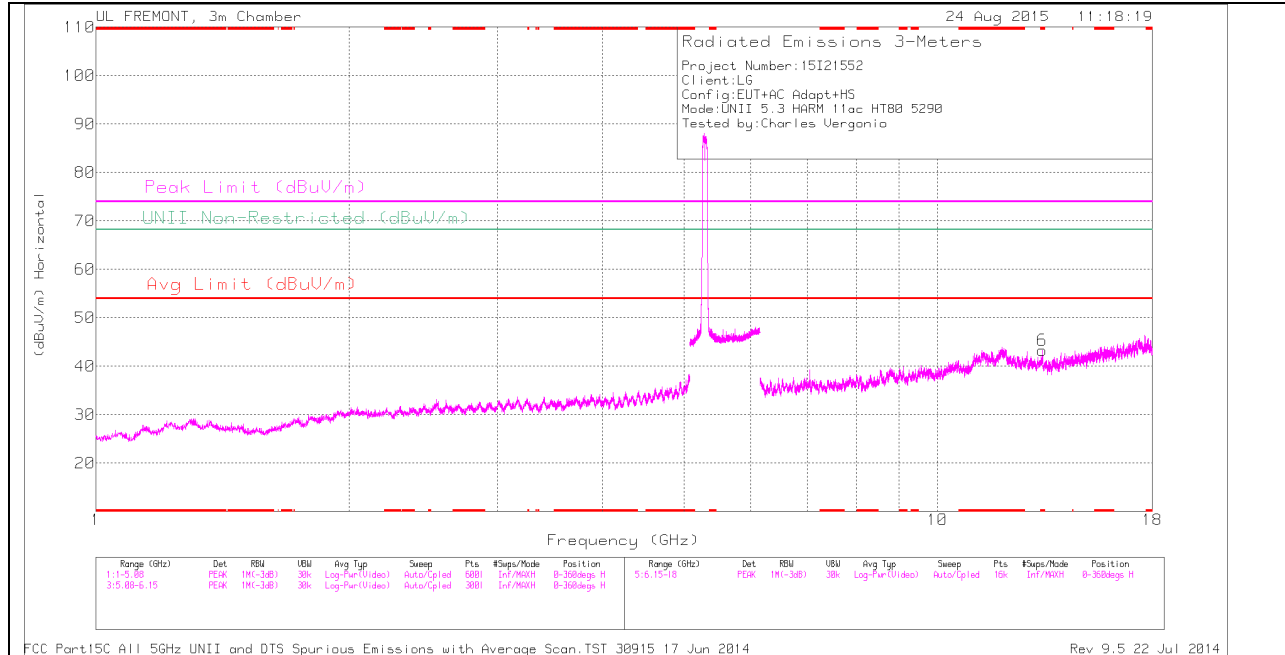


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/ Ftr/Pad (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	40.37	PK	34.5	-20.5	54.37	-	-	74	-19.63	111	394	V
2	* 5.351	41.99	PK	34.5	-20.5	55.99	-	-	74	-18.01	111	394	V
3	* 5.35	31.22	RMS	34.5	-20.5	45.22	54	-8.78	-	-	111	394	V
4	* 5.351	31.16	RMS	34.5	-20.5	45.16	54	-8.84	-	-	111	394	V

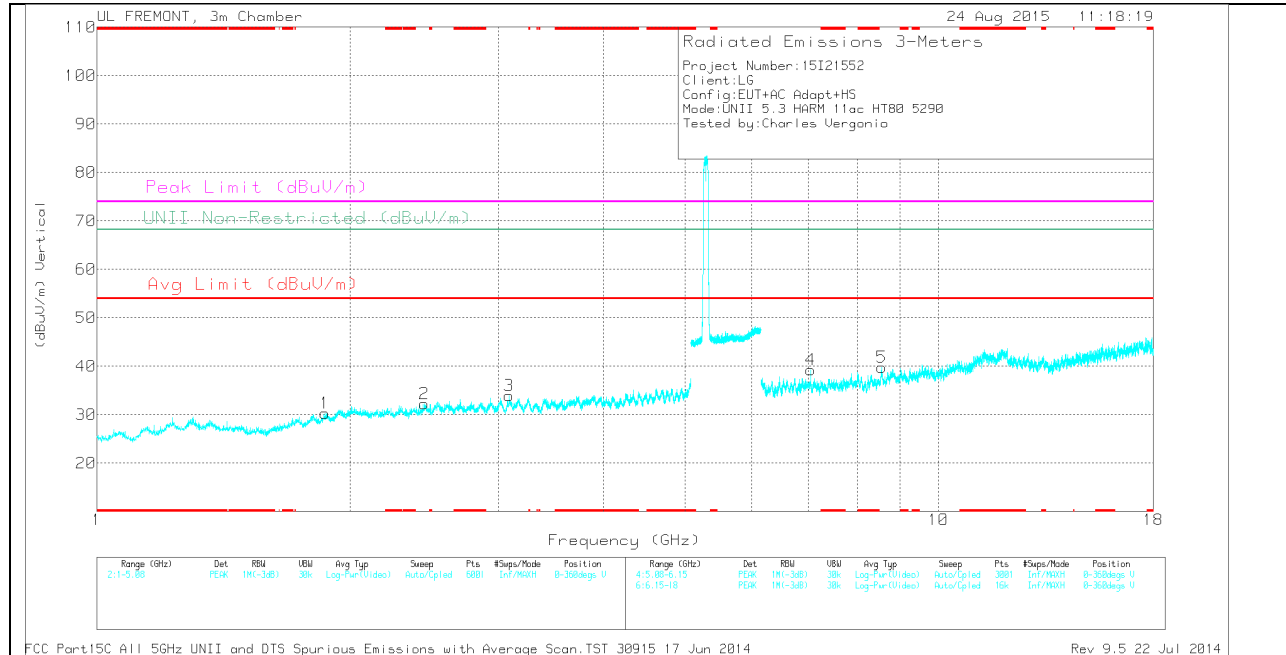
HARMONICS AND SPURIOUS EMISSIONS

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 T119 (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
6	* 13.323	30.33	PK	39	-26	0	43.33	-	-	74	-30.67	-	-	0-360	100	H
1	1.867	32.09	PK	30.8	-32.6	0	30.29	-	-	-	-	68.2	-37.91	0-360	200	V
2	2.45	31.97	PK	32.2	-31.9	0	32.27	-	-	-	-	68.2	-35.93	0-360	200	V
3	3.091	32.49	PK	32.8	-31.4	0	33.89	-	-	-	-	68.2	-34.31	0-360	100	V
4	7.054	31.58	PK	35.6	-27.9	0	39.28	-	-	-	-	68.2	-28.92	0-360	100	V
5	8.561	28.63	PK	35.8	-24.6	0	39.83	-	-	-	-	68.2	-28.37	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

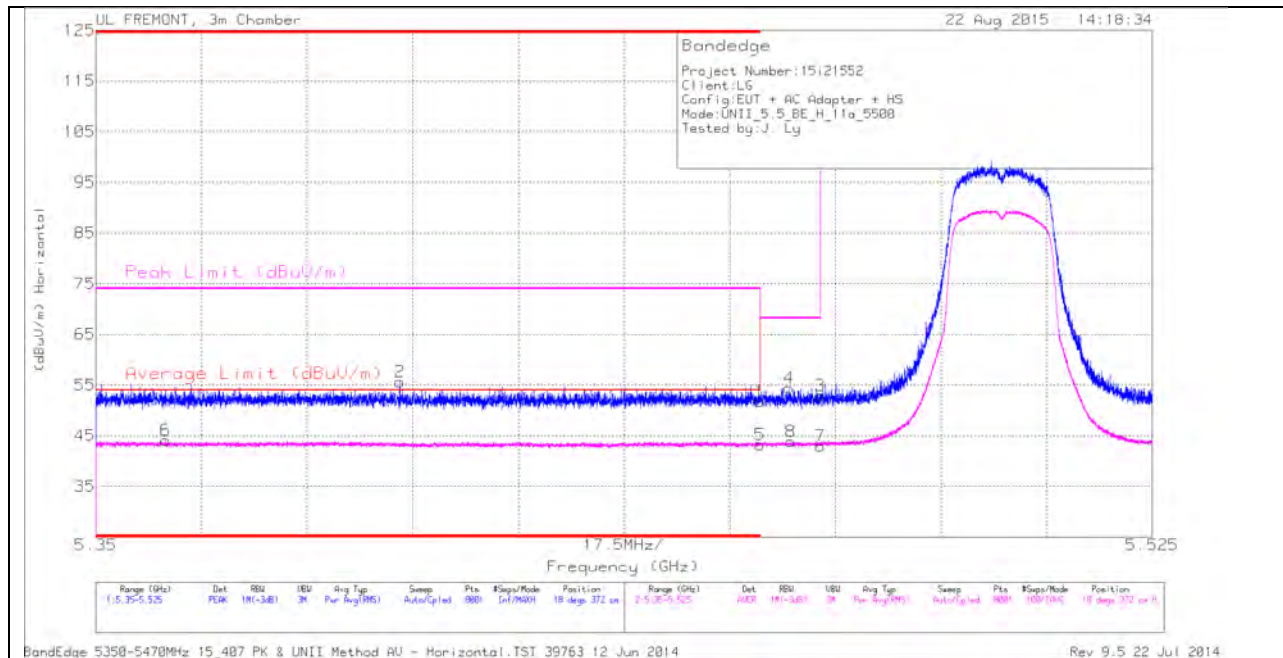
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 13.323	38.38	PK1	39	-26	0	51.38	-	-	74	-22.62	-	-	294	100	H
* 13.323	26.78	AD1	39	-26	.1	39.88	54	-14.12	-	-	-	-	294	100	H
1.866	41.25	PK1	30.8	-32.6	0	39.45	-	-	-	-	68.2	-28.75	359	200	V
2.451	41.5	PK1	32.2	-31.9	0	41.8	-	-	-	-	68.2	-26.4	359	200	V
3.093	41.52	PK1	32.8	-31.4	0	42.92	-	-	-	-	68.2	-25.28	359	100	V
7.053	38.57	PK1	35.6	-27.9	0	46.27	-	-	-	-	68.2	-21.93	294	100	V
8.561	37.5	PK1	35.8	-24.6	0	48.7	-	-	-	-	68.2	-19.5	294	100	V

10.2. 5.5-5.6 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

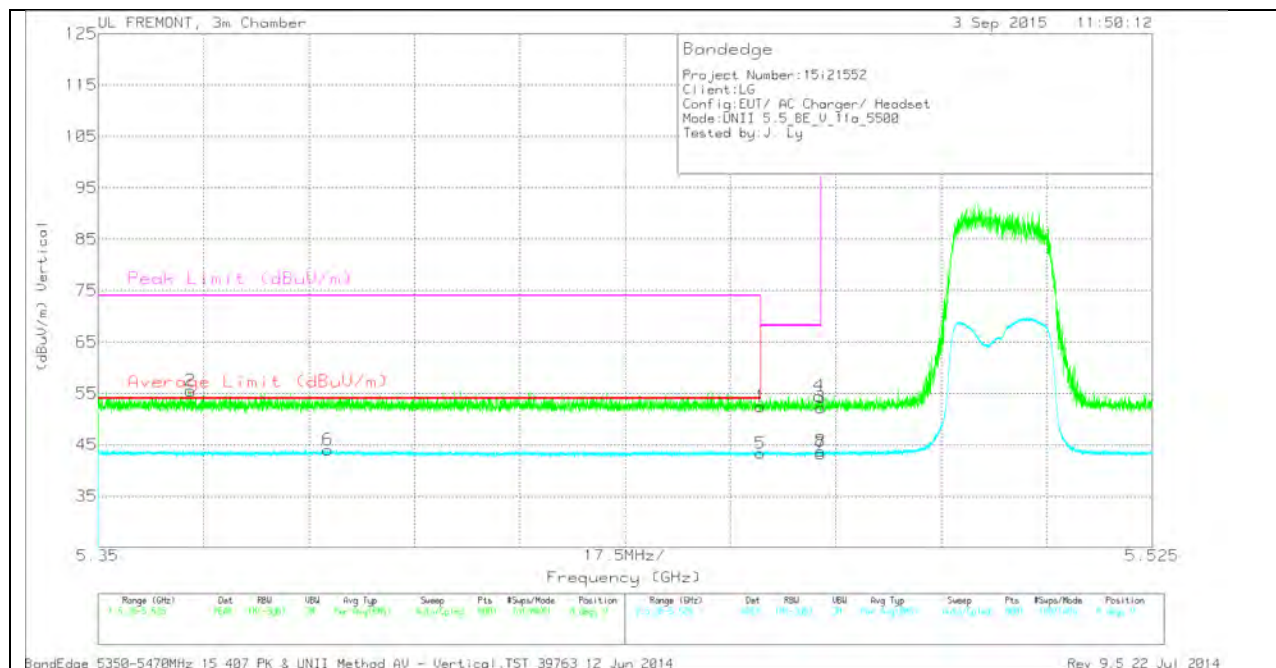
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Ftr/Pad (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	37.92	PK	34.6	-20.7	51.82	-	-	74	-22.18	18	372	H
2	* 5.4	41.61	PK	34.6	-20.6	55.61	-	-	74	-18.39	18	372	H
5	* 5.46	29.27	RMS	34.6	-20.7	43.17	54	-10.83	-	-	18	372	H
6	* 5.362	30.09	RMS	34.5	-20.5	44.09	54	-9.91	-	-	18	372	H
4	5.465	40.43	PK	34.6	-20.6	54.43	-	-	68.2	-13.77	18	372	H
8	5.465	29.85	RMS	34.6	-20.6	43.85	-	-	-	-	18	372	H
3	5.47	38.93	PK	34.6	-20.6	52.93	-	-	68.2	-15.27	18	372	H
7	5.47	28.97	RMS	34.6	-20.6	42.97	-	-	-	-	18	372	H

VERTICAL PEAK AND AVERAGE PLOT

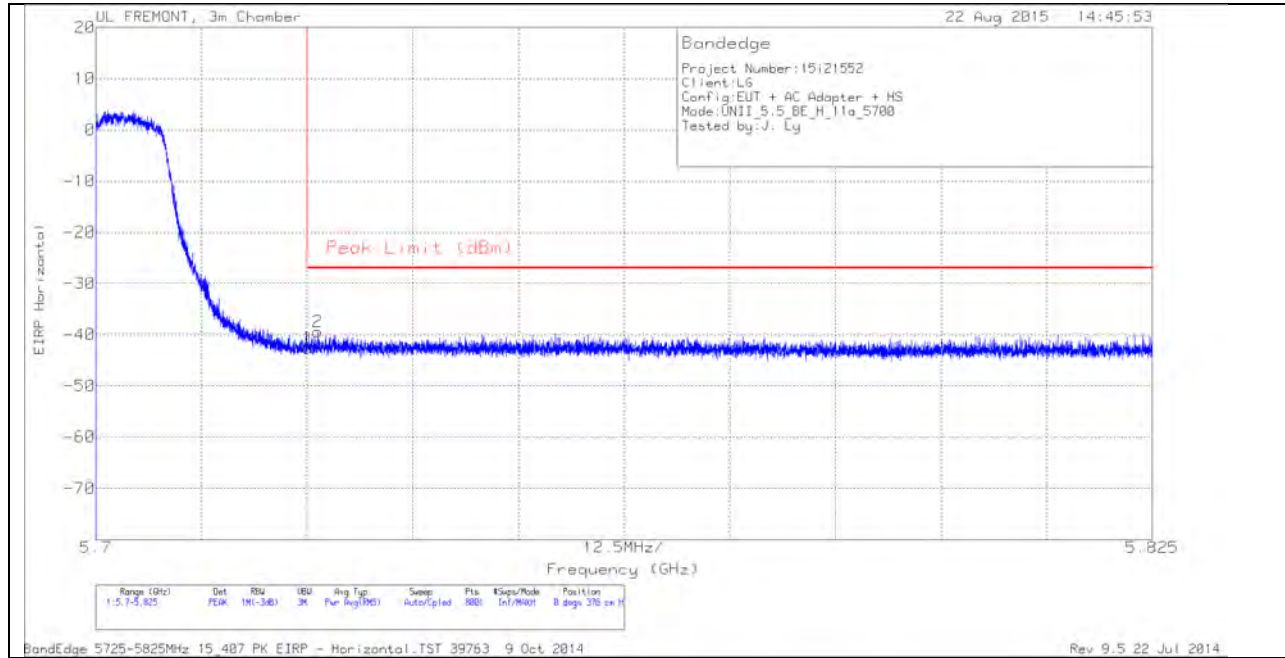


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/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	5.365	41.64	PK	34.5	-20.6	55.54	-	-	74	-18.46	8	238	V
6	5.388	30.02	RMS	34.6	-20.6	44.02	54	-9.98	-	-	8	238	V
1	5.46	38.55	PK	34.6	-20.7	52.45	-	-	74	-21.55	8	238	V
5	5.46	29.46	RMS	34.6	-20.7	43.36	54	-10.64	-	-	8	238	V
3	5.47	38.22	PK	34.6	-20.6	52.22	-	-	68.2	-15.98	8	238	V
4	5.47	40.52	PK	34.6	-20.6	54.52	-	-	68.2	-13.68	8	238	V
7	5.47	29.26	RMS	34.6	-20.6	43.26	-	-	-	-	8	238	V
8	5.47	29.76	RMS	34.6	-20.6	43.76	-	-	-	-	8	238	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

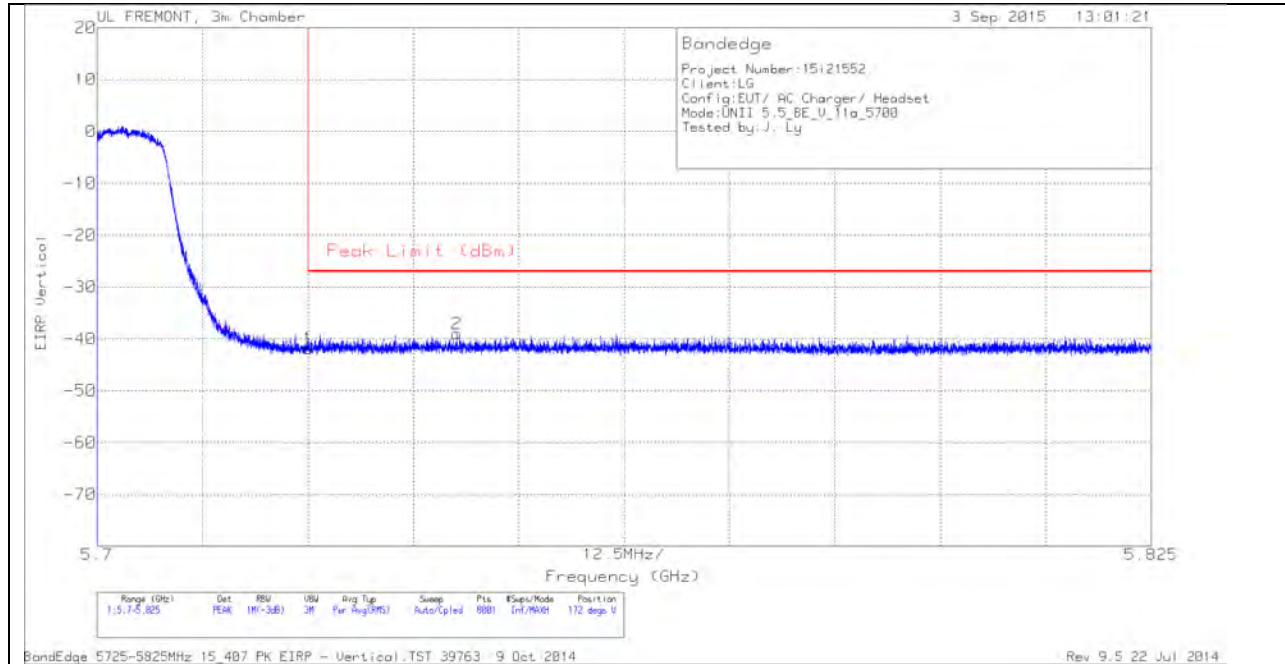


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	5.725	-68.85	PK	34.8	-20.3	11.8	-42.55	-27	-15.55	0	376	H
2	5.726	-65.7	PK	34.8	-20.3	11.8	-39.4	-27	-12.4	0	376	H

VERTICAL PEAK AND AVERAGE PLOT

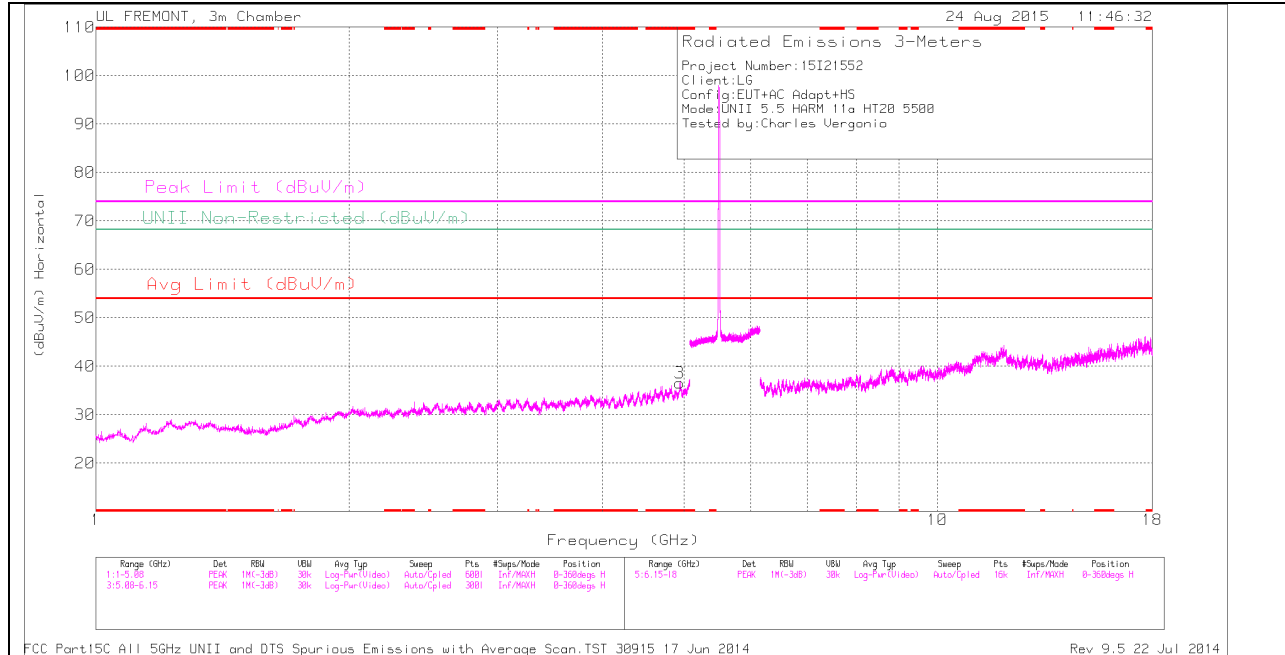


VERTICAL DATA

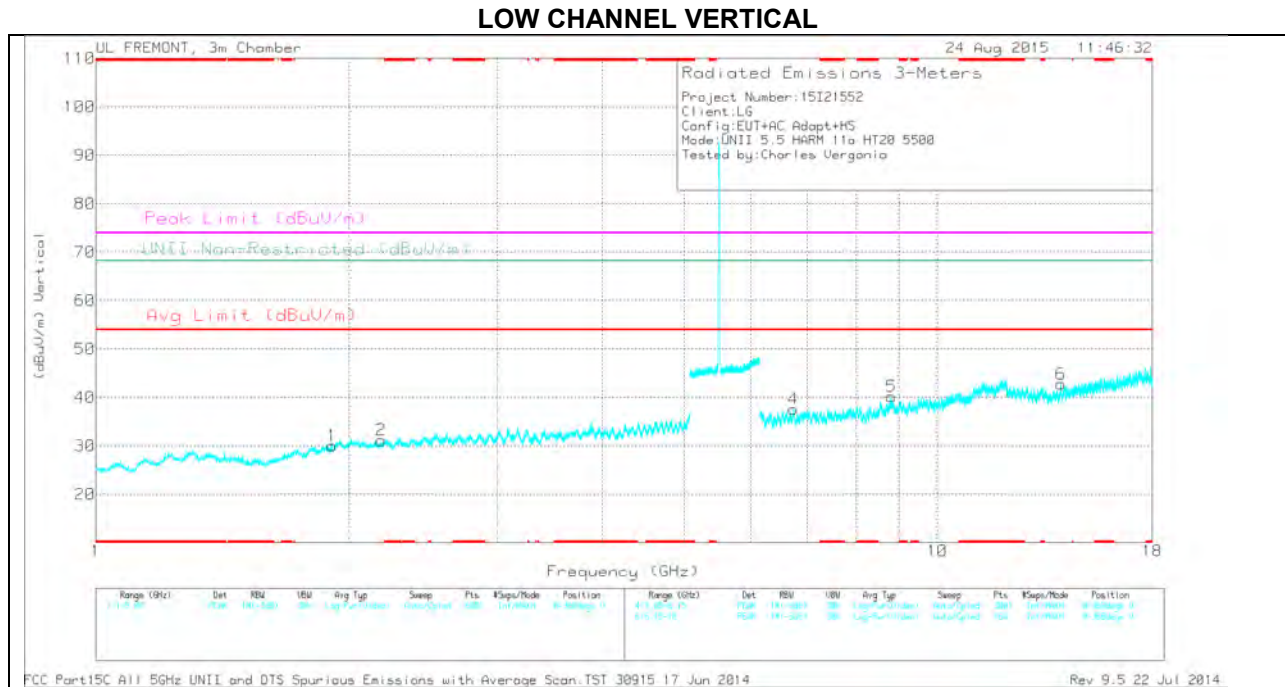
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1	5.725	-68.19	PK	34.8	-20.3	11.8	-41.89	-27	-14.89	172	259	V
2	5.743	-65.19	PK	34.8	-20.4	11.8	-38.99	-27	-11.99	172	259	V

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.



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LOW CHANNEL DATA

TRACE MARKERS

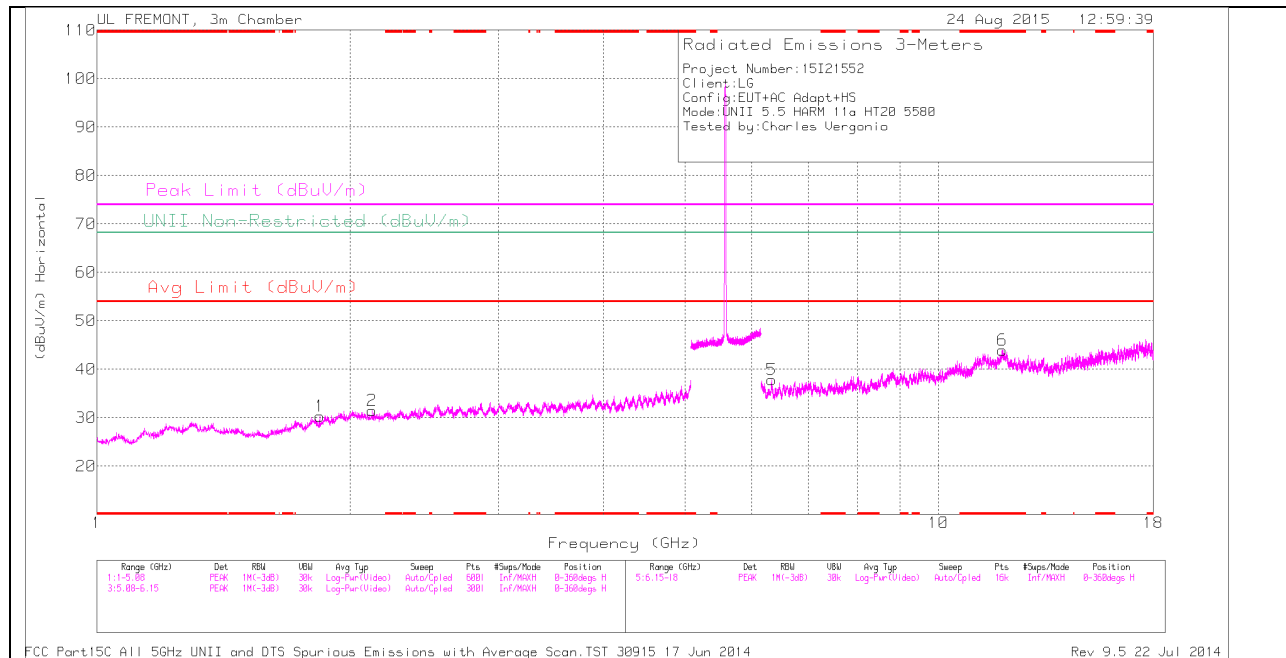
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.941	31.18	PK	34	-28.6	36.58	-	-	74	-37.42	-	-	0-360	100	H
1	1.907	30.94	PK	31.1	-32	30.04	-	-	-	-	68.2	-38.16	0-360	200	V
2	2.181	31.76	PK	31.4	-32	31.16	-	-	-	-	68.2	-37.04	0-360	100	V
4	6.74	30.21	PK	35.6	-28.2	37.61	-	-	-	-	68.2	-30.59	0-360	100	V
5	8.817	28.45	PK	35.9	-24.2	40.15	-	-	-	-	68.2	-28.05	0-360	200	V
6	14.014	30.99	PK	38.8	-27	42.79	-	-	-	-	68.2	-25.41	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

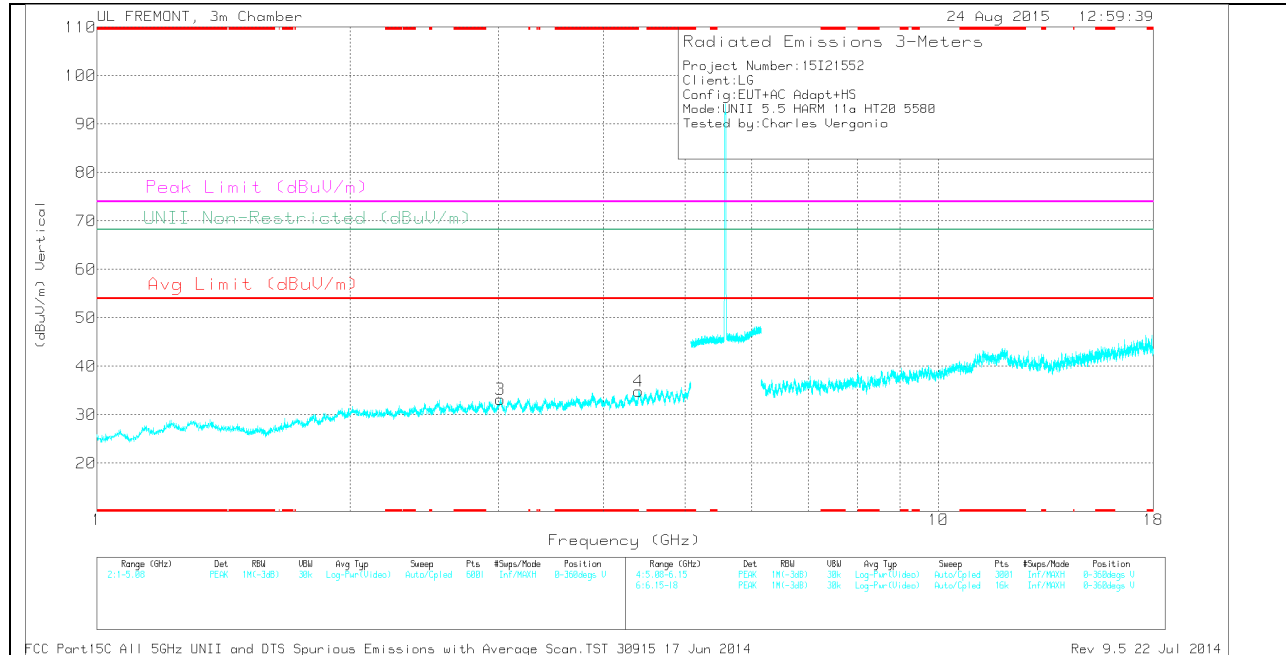
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.94	39.99	PK1	34	-28.6	45.39	-	-	74	-28.61	-	-	360	100	H
* 4.939	28.58	AD1	34	-28.6	33.98	54	-20.02	-	-	-	-	360	100	H
1.905	40.27	PK1	31.1	-32.1	39.27	-	-	-	-	68.2	-28.93	360	200	V
2.182	41.03	PK1	31.4	-32	40.43	-	-	-	-	68.2	-27.77	360	100	V
6.74	39.94	PK1	35.6	-28.2	47.34	-	-	-	-	68.2	-20.86	360	100	V
8.817	36.35	PK1	35.9	-24.2	48.05	-	-	-	-	68.2	-20.15	360	200	V
14.013	40.13	PK1	38.8	-27	51.93	-	-	-	-	68.2	-16.27	360	200	V

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 T119 (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
6	* 11.901	28.31	PK	39.1	-23.5	43.91	-	-	74	-30.09	-	-	0-360	100	H
1	1.84	32.33	PK	30.6	-32.6	30.33	-	-	-	-	68.2	-37.87	0-360	100	H
2	2.123	32.19	PK	31.5	-32.2	31.49	-	-	-	-	68.2	-36.71	0-360	100	H
3	3.017	31.52	PK	32.7	-31	33.22	-	-	-	-	68.2	-34.98	0-360	200	V
4	4.401	31.39	PK	33.6	-30.1	34.89	-	-	-	-	68.2	-33.31	0-360	200	V
5	6.335	31	PK	35.4	-28.5	37.9	-	-	-	-	68.2	-30.3	0-360	200	H

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

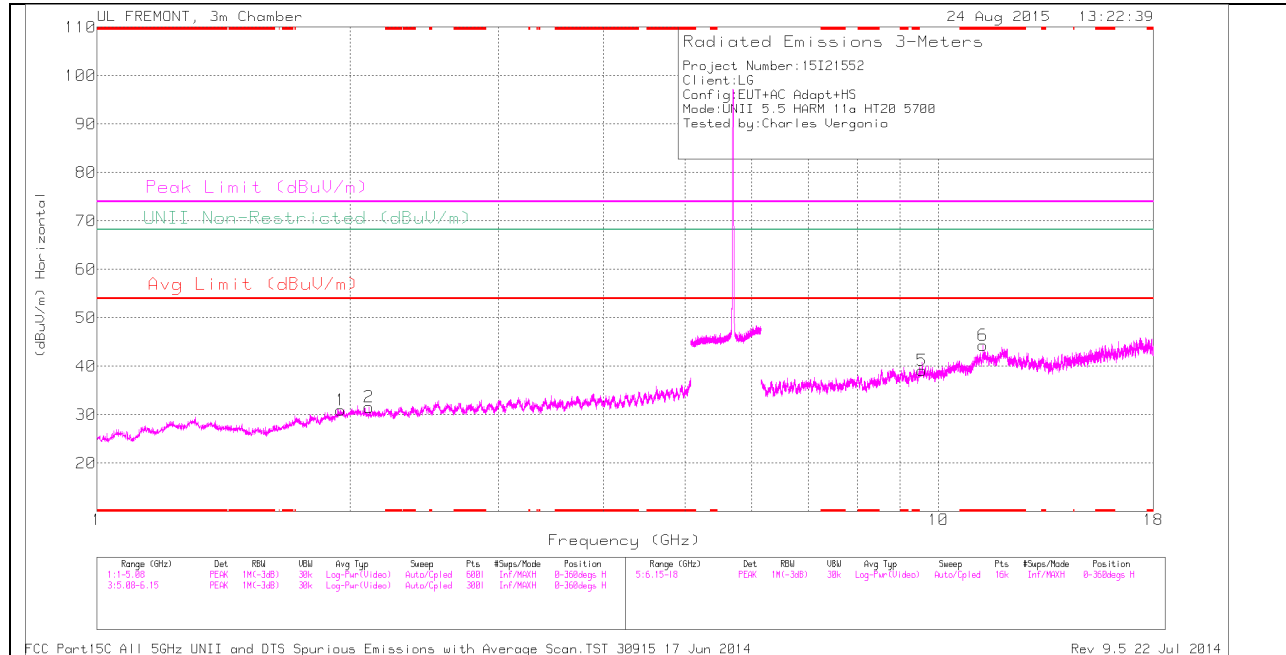
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 11.903	37.98	PK1	39.1	-23.5	53.58	-	-	74	-20.42	-	-	344	200	H
* 11.901	25.21	AD1	39.1	-23.5	40.81	54	-13.19	-	-	-	-	344	200	H
1.839	41.17	PK1	30.6	-32.6	39.17	-	-	-	-	68.2	-29.03	0	100	H
2.124	40.9	PK1	31.5	-32.1	40.3	-	-	-	-	68.2	-27.9	0	100	H
3.016	41.31	PK1	32.7	-31	43.01	-	-	-	-	68.2	-25.19	0	200	V
4.401	40.6	PK1	33.6	-30.1	44.1	-	-	-	-	68.2	-24.1	0	200	V
6.337	39.53	PK1	35.4	-28.5	46.43	-	-	-	-	68.2	-21.77	0	200	H

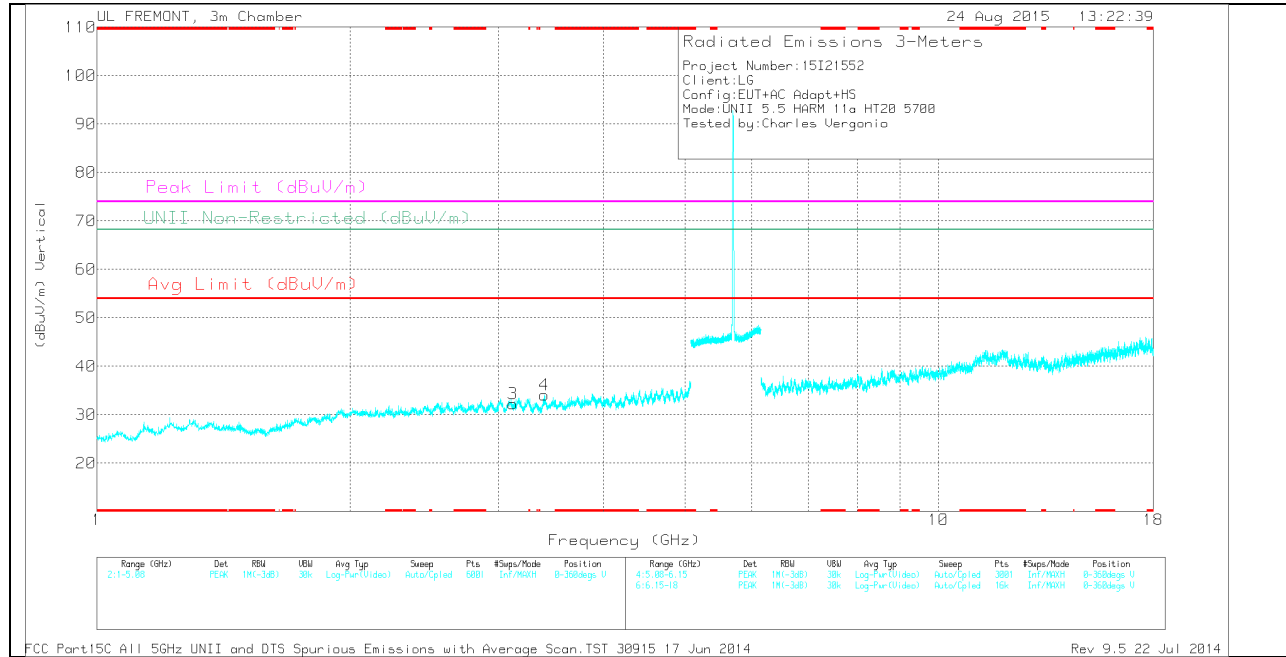
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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 T119 (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
6	* 11.299	28.91	PK	38.1	-22.7	44.31	-	-	74	-29.69	-	-	0-360	100	H
1	1.949	31.42	PK	31.3	-31.7	31.02	-	-	-	-	68.2	-37.18	0-360	100	H
2	2.105	32.25	PK	31.5	-32.2	31.55	-	-	-	-	68.2	-36.65	0-360	100	H
3	3.121	30.71	PK	32.7	-31.2	32.21	-	-	-	-	68.2	-35.99	0-360	100	V
4	3.403	32.23	PK	32.7	-30.8	34.13	-	-	-	-	68.2	-34.07	0-360	200	V
5	9.554	26.29	PK	36.6	-23.7	39.19	-	-	-	-	68.2	-29.01	0-360	200	H

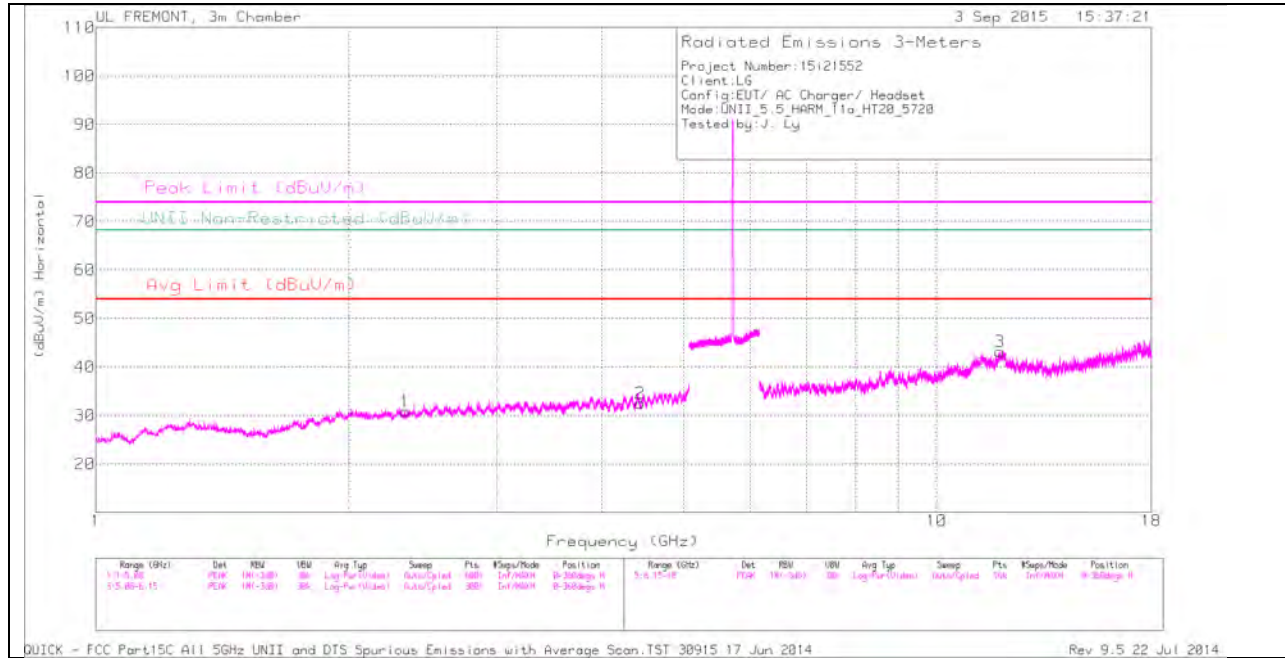
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RADIATED EMISSIONS

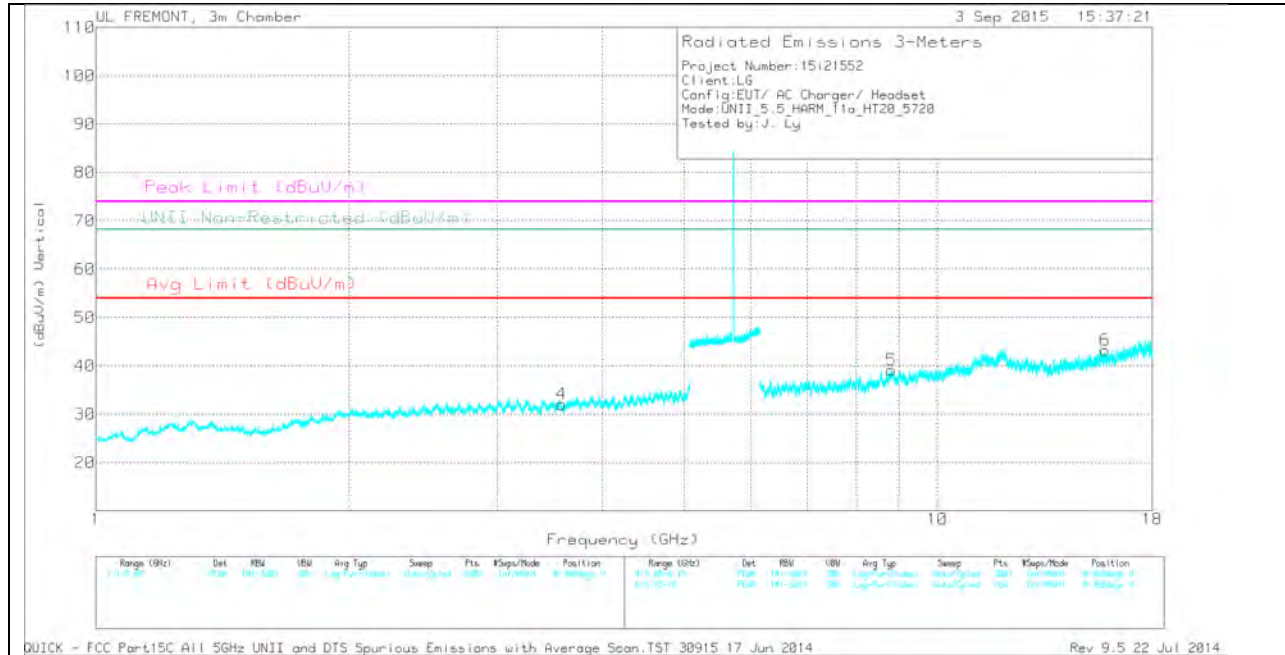
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.298	36.18	PK1	38.1	-22.7	51.58	-	-	74	-22.42	-	-	360	100	H
* 11.301	24.99	AD1	38.1	-22.8	40.29	54	-13.71	-	-	-	-	360	100	H
1.951	41.07	PK1	31.3	-31.7	40.67	-	-	-	-	68.2	-27.53	360	100	H
2.107	40.57	PK1	31.5	-32.2	39.87	-	-	-	-	68.2	-28.33	360	100	H
3.121	40.42	PK1	32.7	-31.2	41.92	-	-	-	-	68.2	-26.28	360	100	V
3.403	41.62	PK1	32.7	-30.8	43.52	-	-	-	-	68.2	-24.68	360	200	V
9.555	36.25	PK1	36.6	-23.7	49.15	-	-	-	-	68.2	-19.05	360	200	H

CHANNEL 144 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.

CHANNEL 144 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.

CHANNEL 144 DATA

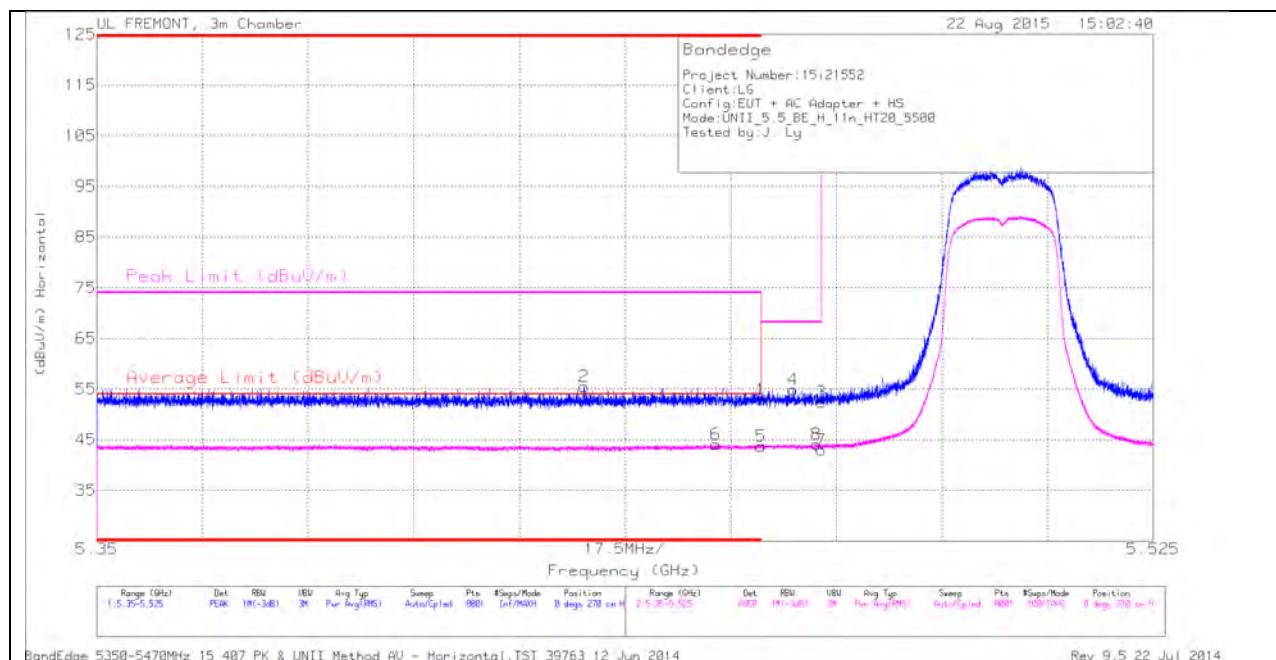
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	2.332	31.14	PK	31.7	-32	30.84	-	-	74	-43.16	-	-	0-360	100	H
4	3.572	30.37	PK	32.8	-31.1	32.07	-	-	74	-41.93	-	-	0-360	100	V
2	4.442	28.68	PK	33.7	-29.9	32.48	-	-	-	-	68.2	-35.72	0-360	100	H
5	8.819	27.43	PK	35.9	-24.2	39.13	-	-	-	-	68.2	-29.07	0-360	100	V
3	11.891	27.45	PK	39.1	-23.4	43.15	-	-	74	-30.85	-	-	0-360	100	H
6	15.809	28.35	PK	40.3	-25.4	43.25	-	-	74	-30.75	-	-	0-360	100	V

PK - Peak detector

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

HORIZONTAL PEAK AND AVERAGE PLOT



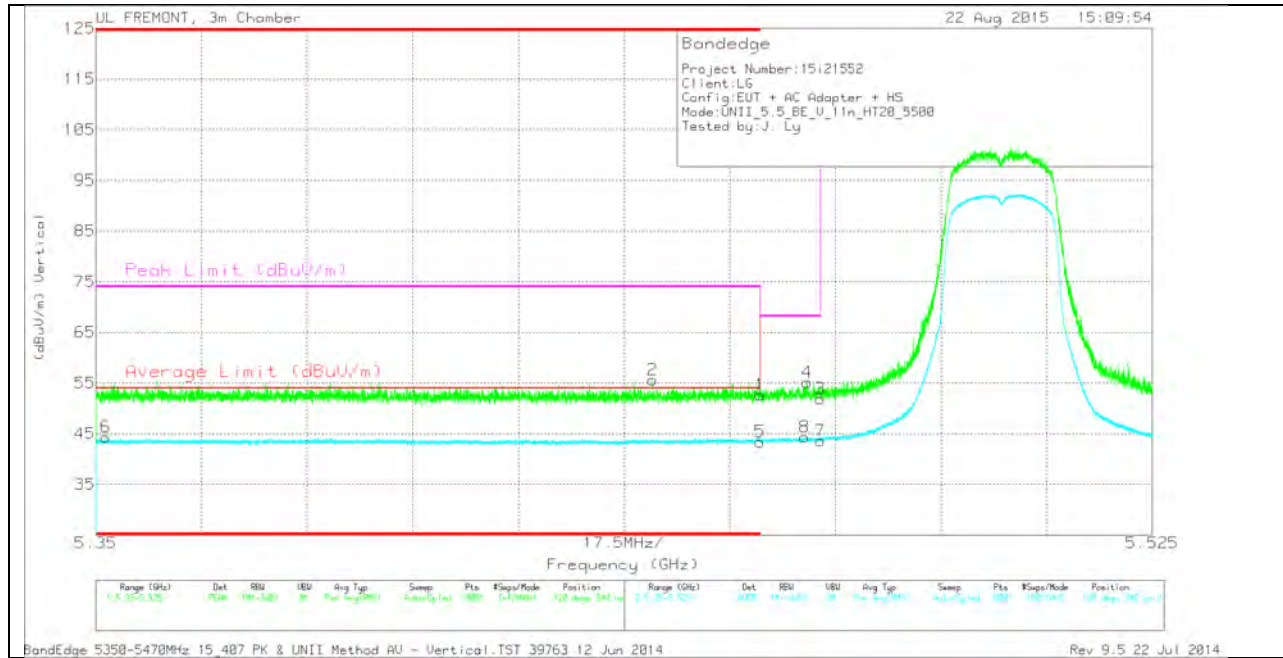
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (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	39.05	PK	34.6	-20.7	52.95	-	-	74	-21.05	0	270	H
2	* 5.431	41.66	PK	34.6	-20.7	55.56	-	-	74	-18.44	0	270	H
5	* 5.46	29.81	RMS	34.6	-20.7	43.71	54	-10.29	-	-	0	270	H
6	* 5.453	30.12	RMS	34.6	-20.6	44.12	54	-9.88	-	-	0	270	H
4	5.465	40.91	PK	34.6	-20.6	54.91	-	-	68.2	-13.29	0	270	H
8	5.469	30.13	RMS	34.6	-20.6	44.13	-	-	-	-	0	270	H
3	5.47	38.44	PK	34.6	-20.6	52.44	-	-	68.2	-15.76	0	270	H
7	5.47	28.97	RMS	34.6	-20.6	42.97	-	-	-	-	0	270	H

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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

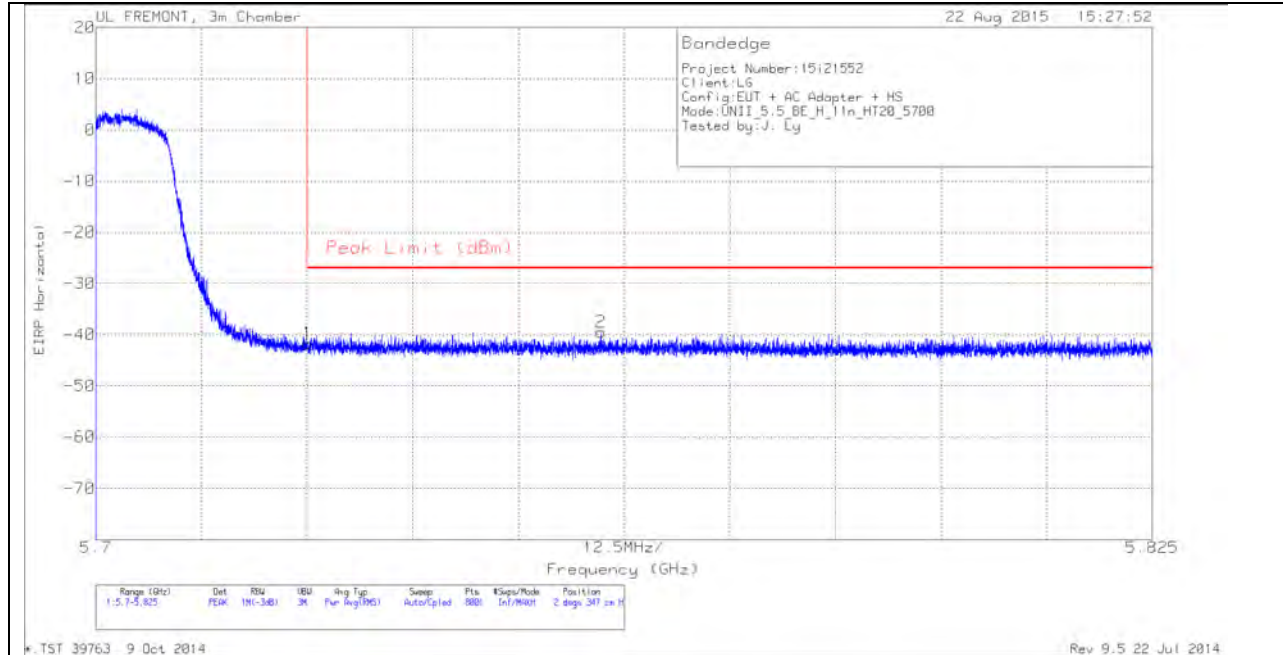
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (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	38.71	PK	34.6	-20.7	52.61	-	-	74	-21.39	120	349	V
2	* 5.442	41.6	PK	34.6	-20.6	55.6	-	-	74	-18.4	120	349	V
5	* 5.46	29.5	RMS	34.6	-20.7	43.4	54	-10.6	-	-	120	349	V
6	* 5.352	30.29	RMS	34.5	-20.5	44.29	54	-9.71	-	-	120	349	V
8	5.467	30.35	RMS	34.6	-20.6	44.35	-	-	-	-	120	349	V
4	5.468	41.04	PK	34.6	-20.5	55.14	-	-	68.2	-13.06	120	349	V
3	5.47	37.95	PK	34.6	-20.6	51.95	-	-	68.2	-16.25	120	349	V
7	5.47	29.63	RMS	34.6	-20.6	43.63	-	-	-	-	120	349	V

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

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



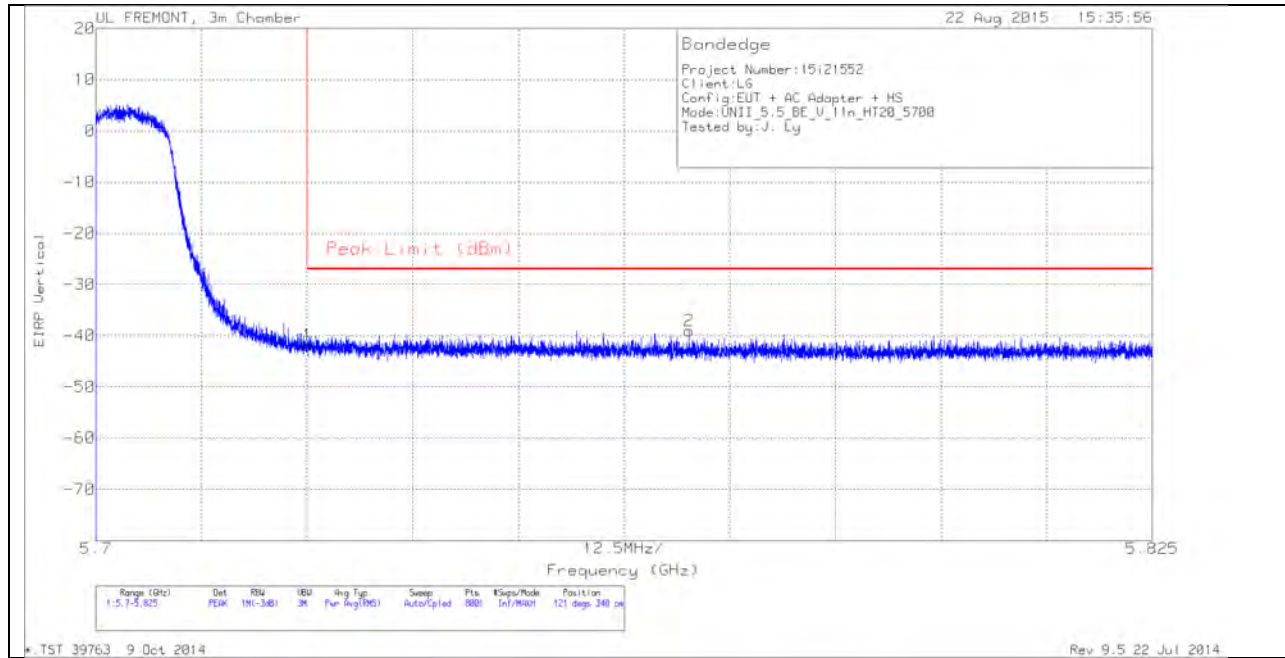
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	5.725	-67.98	PK	34.8	-20.3	11.8	-41.68	-27	-14.68	2	347	H
2	5.76	-65.57	PK	34.8	-20.5	11.8	-39.47	-27	-12.47	2	347	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

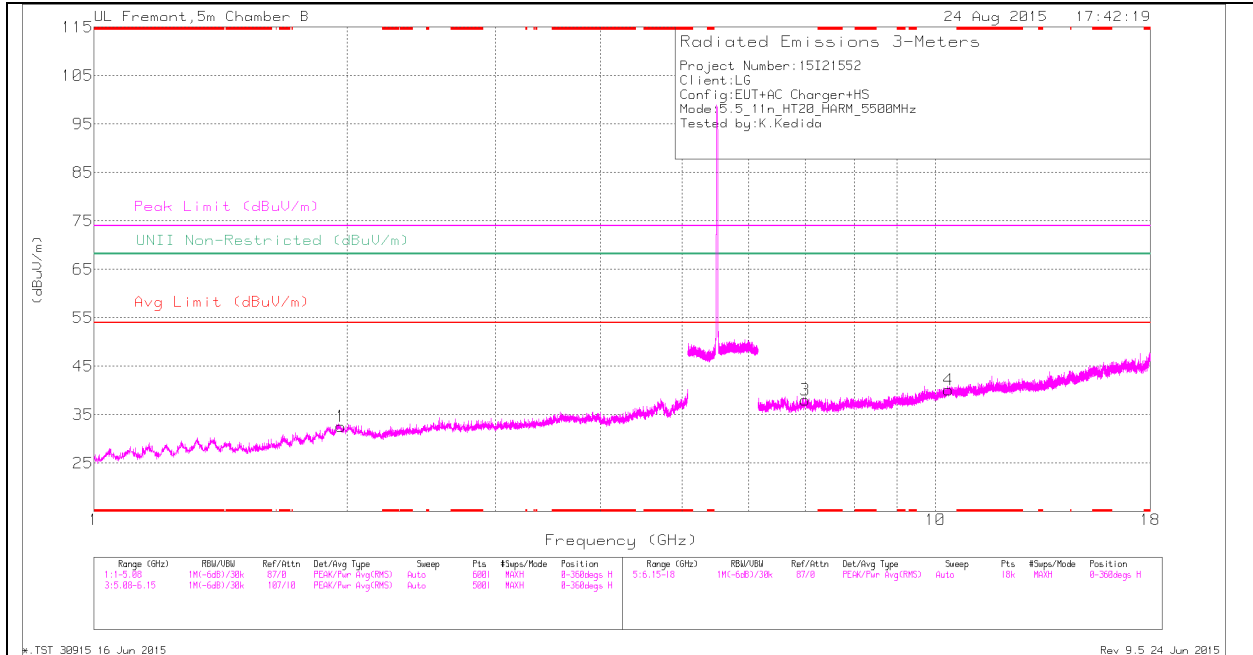
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	5.725	-68.13	PK	34.8	-20.3	11.8	-41.83	-27	-14.83	121	340	V
2	5.77	-65.11	PK	34.8	-20.5	11.8	-39.01	-27	-12.01	121	340	V

PK - Peak detector

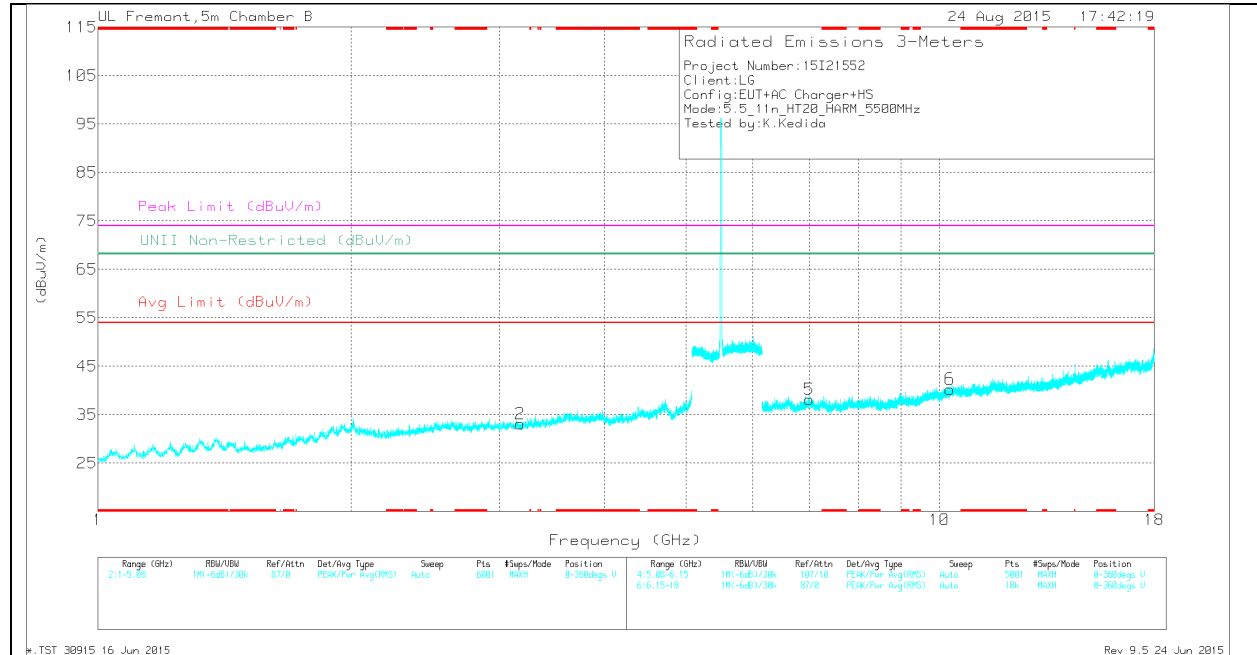
HARMONICS AND SPURIOUS EMISSIONS

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

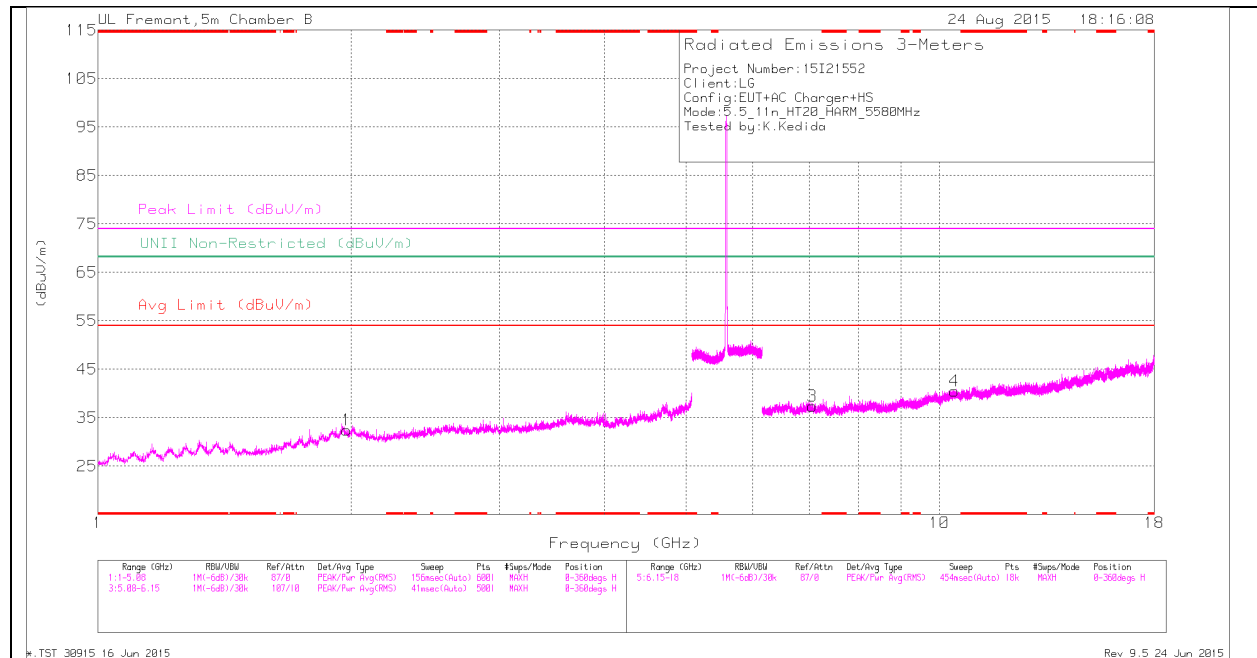
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.966	34	Pk	32.2	-33.6	32.6	-	-	-	-	68.2	-35.6	0-360	199	H
2	3.177	33.92	Pk	32.4	-33.2	33.12	-	-	-	-	68.2	-35.08	0-360	200	V
3	6.999	32.05	Pk	36	-30	38.05	-	-	-	-	68.2	-30.15	0-360	199	H
5	7.004	32.04	Pk	36	-29.9	38.14	-	-	-	-	68.2	-30.06	0-360	199	V
6	10.293	29.21	Pk	37.4	-26.3	40.31	-	-	-	-	68.2	-27.89	0-360	101	V
4	10.36	28.34	Pk	37.4	-25.6	40.14	-	-	-	-	68.2	-28.06	0-360	101	H

PK - Peak detector

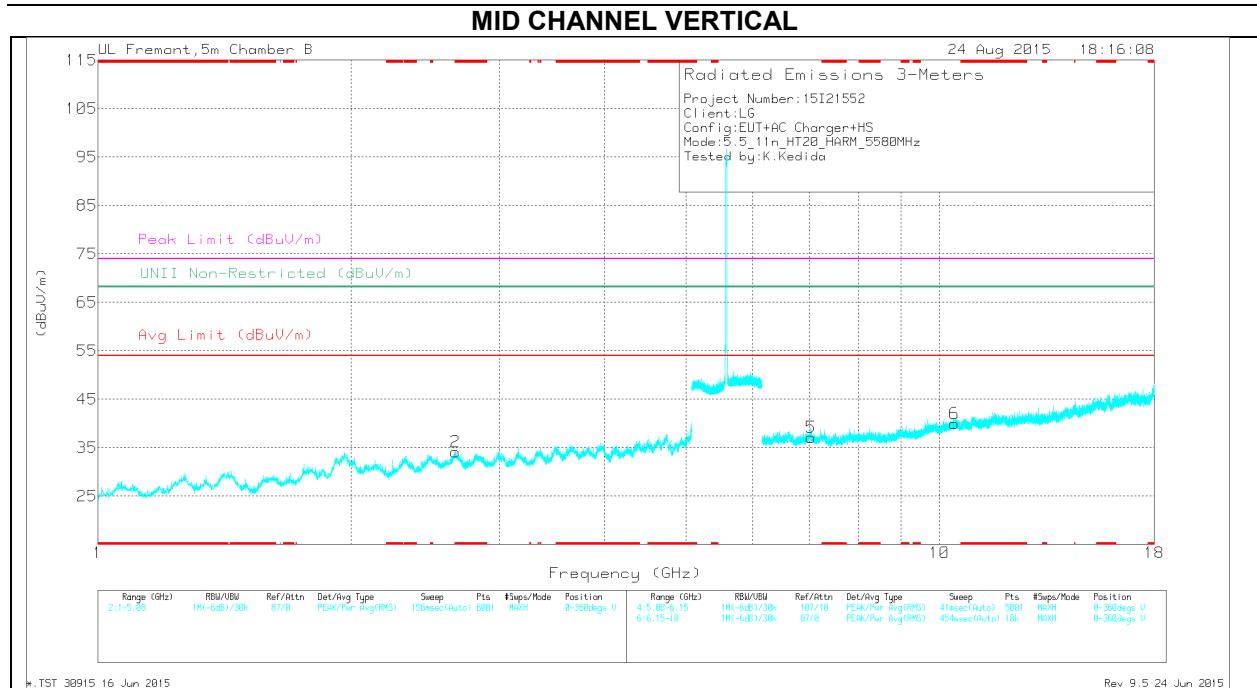
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
1.966	42.67	PK-U	32.2	-33.6	41.27	-	-	-	-	68.2	-26.93	1	199	H
3.177	42.61	PK-U	32.4	-33.1	41.91	-	-	-	-	68.2	-26.29	1	199	V
7.001	40.28	PK-U	36	-29.9	46.38	-	-	-	-	68.2	-21.82	1	199	H
7.005	40.02	PK-U	36	-29.8	46.22	-	-	-	-	68.2	-21.98	1	199	V
10.293	36.78	PK-U	37.4	-26.3	47.88	-	-	-	-	68.2	-20.32	1	102	V
10.359	36.47	PK-U	37.4	-25.6	48.27	-	-	-	-	68.2	-19.93	1	102	H

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.



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

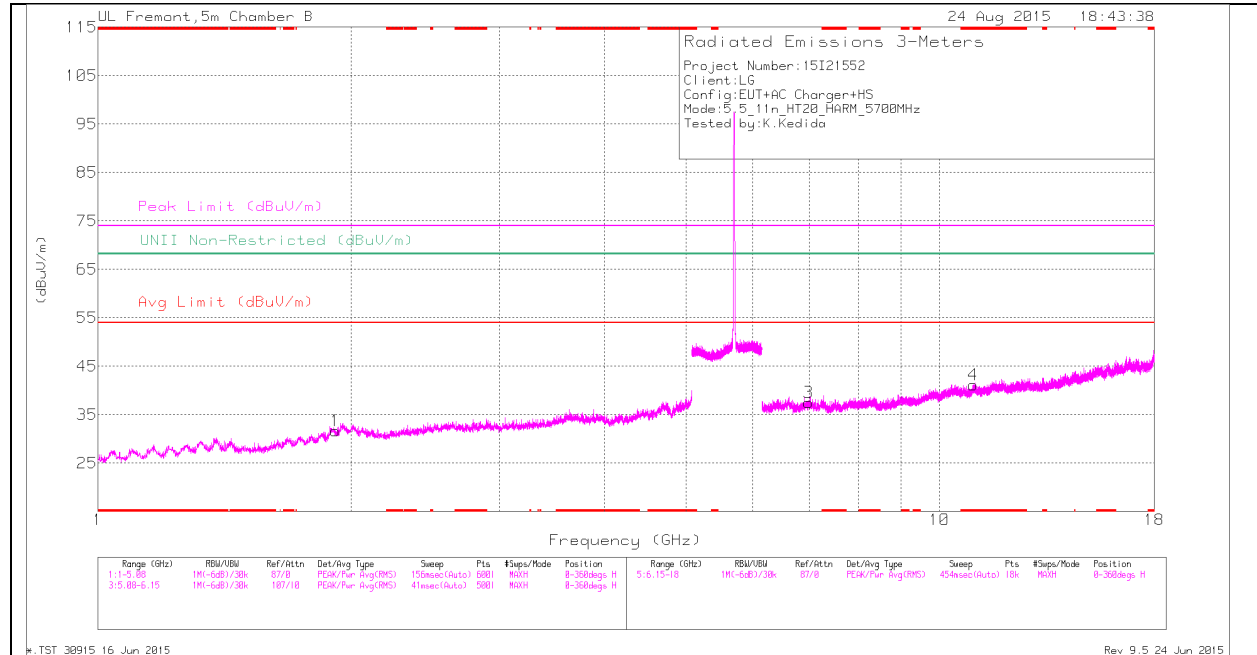
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.658	34.99	Pk	32.7	-33.6	34.09	-	-	74	-39.91	-	-	0-360	101	V
1	1.976	33.81	Pk	32.2	-33.6	32.41	-	-	-	-	68.2	-35.79	0-360	200	H
5	7.035	30.97	Pk	35.9	-29.7	37.17	-	-	-	-	68.2	-31.03	0-360	199	V
3	7.063	31.48	Pk	35.8	-29.9	37.38	-	-	-	-	68.2	-30.82	0-360	199	H
4	10.416	28.38	Pk	37.4	-25.3	40.48	-	-	-	-	68.2	-27.72	0-360	101	H
6	10.417	27.89	Pk	37.4	-25.3	39.99	-	-	-	-	68.2	-28.21	0-360	199	V

PK - Peak detector

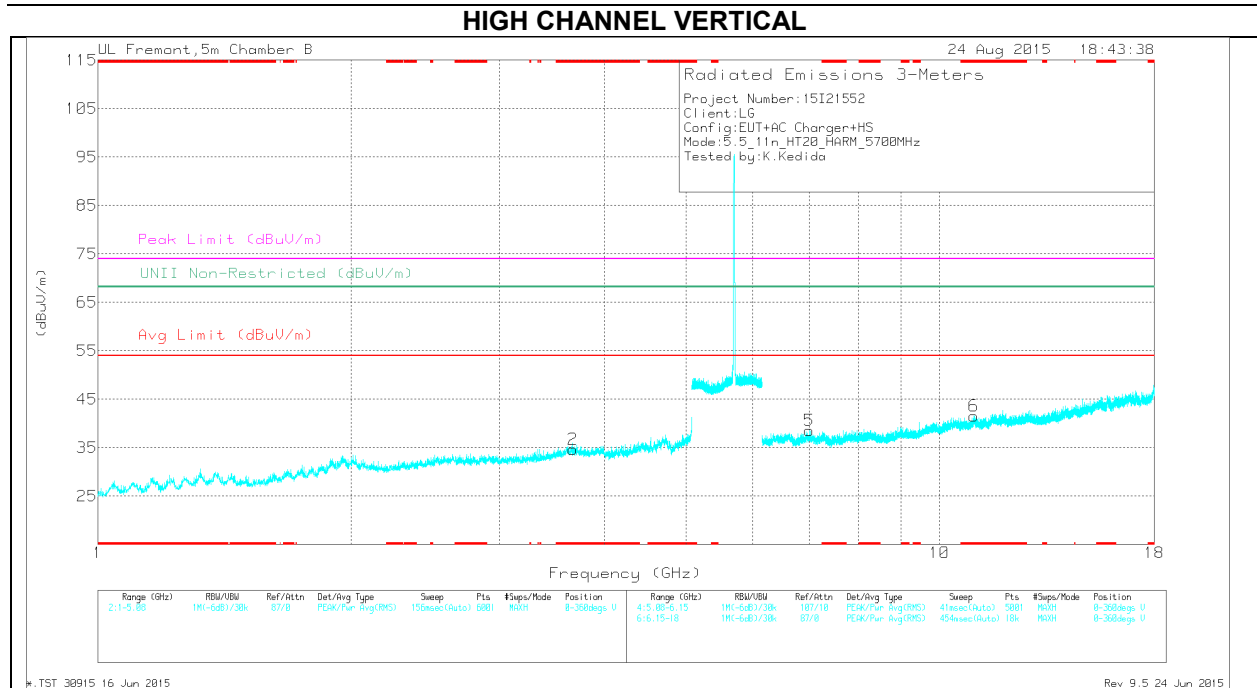
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 2.657	42.08	PK-U	32.7	-33.5	41.28	-	-	74	-32.72	-	-	1	102	V
* 2.66	30.57	ADR	32.7	-33.6	29.67	54	-24.33	-	-	-	-	1	102	V
1.977	42.18	PK-U	32.2	-33.6	40.78	-	-	-	-	68.2	-27.42	1	199	H
7.037	39.8	PK-U	35.9	-29.7	46	-	-	-	-	68.2	-22.2	1	198	V
7.062	40.23	PK-U	35.8	-29.9	46.13	-	-	-	-	68.2	-22.07	1	198	H
10.418	36.83	PK-U	37.4	-25.4	48.83	-	-	-	-	68.2	-19.37	1	102	H
10.419	36.19	PK-U	37.4	-25.4	48.19	-	-	-	-	68.2	-20.01	1	198	V

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.



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

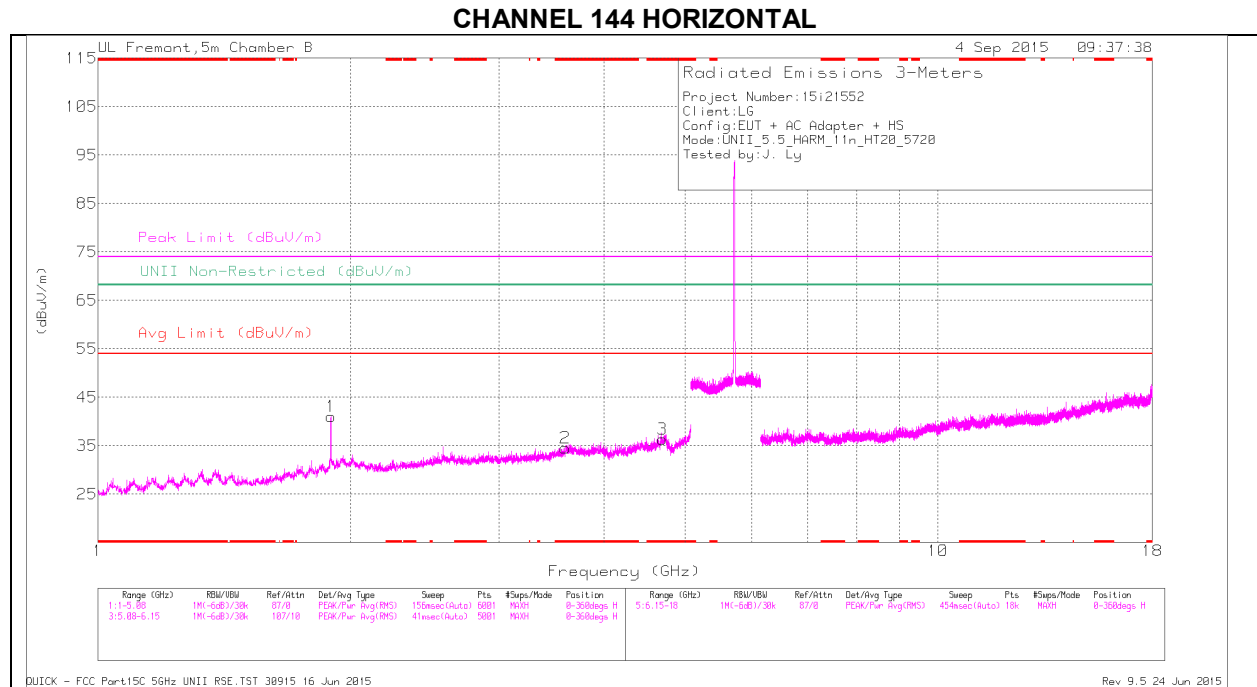
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
2	* 3.667	34.15	Pk	33.7	-33.2	34.65	-	-	74	-39.35	-	-	0-360	200	V
4	* 10.97	28.18	Pk	37.7	-24.7	41.18	-	-	74	-32.82	-	-	0-360	199	H
6	* 10.993	28.5	Pk	37.7	-24.6	41.6	-	-	74	-32.4	-	-	0-360	101	V
1	1.916	33.69	Pk	31.9	-33.9	31.69	-	-	-	-	68.2	-36.51	0-360	101	H
3	6.993	31.59	Pk	36	-30.1	37.49	-	-	-	-	68.2	-30.71	0-360	101	H
5	7.001	32.45	Pk	36	-29.9	38.55	-	-	-	-	68.2	-29.65	0-360	101	V

PK - Peak detector

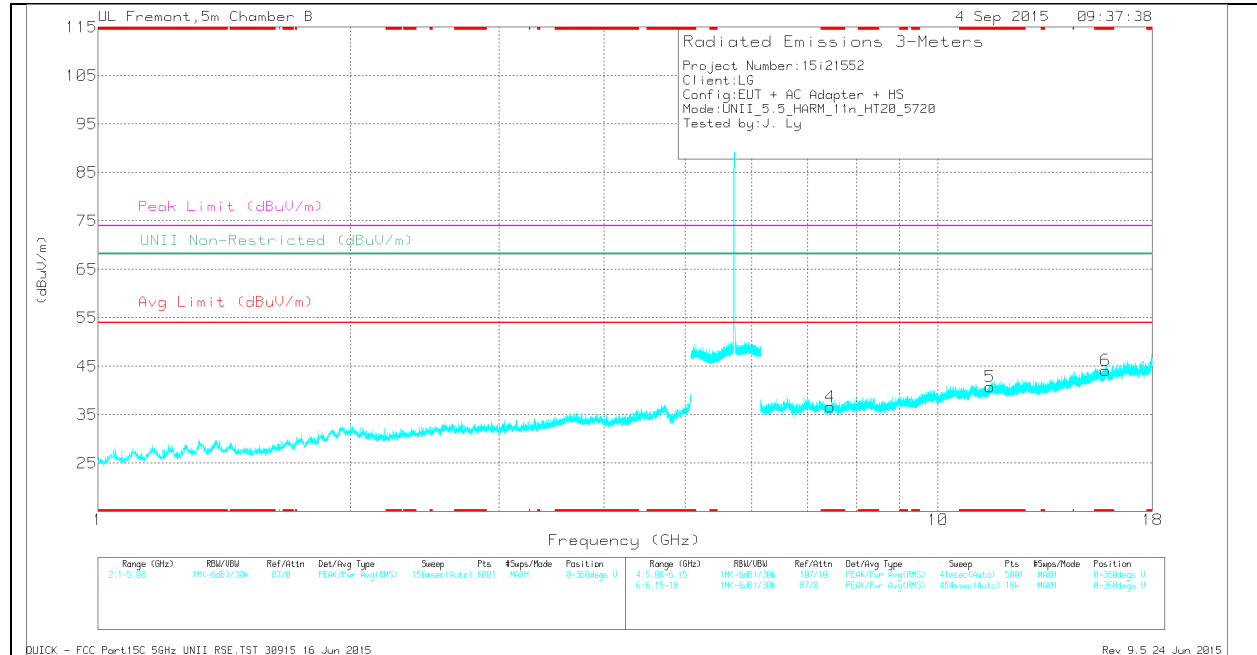
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.665	42.48	PK-U	33.7	-33.2	42.98	-	-	74	-31.02	-	-	1	199	V
* 3.666	30.97	ADR	33.7	-33.2	31.47	54	-22.53	-	-	-	-	1	199	V
* 10.969	36.21	PK-U	37.7	-24.8	49.11	-	-	74	-24.89	-	-	1	199	H
* 10.972	25.1	ADR	37.7	-24.7	38.1	54	-15.9	-	-	-	-	1	199	H
* 10.994	36.23	PK-U	37.7	-24.6	49.33	-	-	74	-24.67	-	-	1	102	V
* 10.994	25.09	ADR	37.7	-24.6	38.19	54	-15.81	-	-	-	-	1	102	V
1.915	43.06	PK-U	31.9	-33.9	41.06	-	-	-	-	68.2	-27.14	1	101	H
6.992	40.21	PK-U	36	-30.2	46.01	-	-	-	-	68.2	-22.19	1	102	H



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

CHANNEL 144 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.

CHANNEL 144 DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 3.6	33.76	Pk	33.8	-33	0	34.56	-	-	74	-39.44	-	-	0-360	100	H
3	* 4.701	33.51	Pk	34.2	-31.4	0	36.31	-	-	74	-37.69	-	-	0-360	100	H
4	* 7.446	31.25	Pk	35.3	-29.9	0	36.65	-	-	74	-37.35	-	-	0-360	100	V
5	* 11.533	27.55	Pk	38.3	-25.1	0	40.75	-	-	74	-33.25	-	-	0-360	100	V
6	* 15.831	24.9	Pk	40.6	-21.3	0	44.2	-	-	74	-29.8	-	-	0-360	100	V
1	1.894	43.71	Pk	31.7	-34.4	0	41.01	-	-	-	-	68.2	-27.19	0-360	100	H

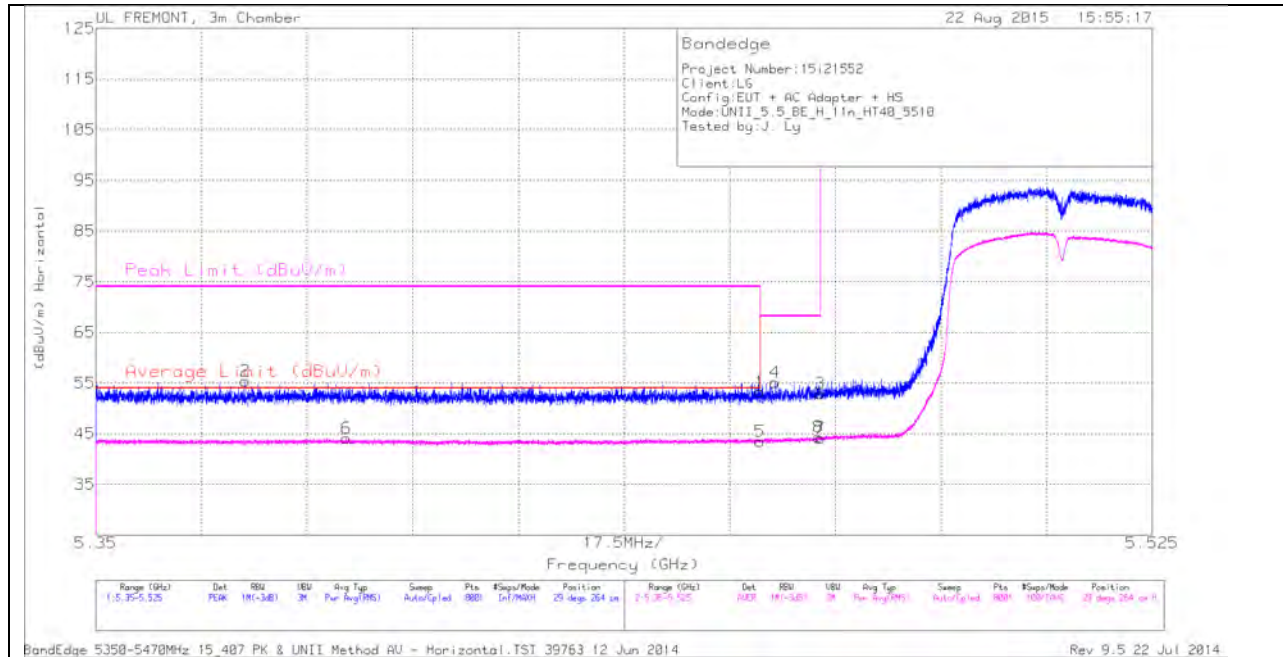
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.601	42.52	PK-U	33.8	-33	0	43.32	-	-	74	-30.68	-	-	1	100	H
* 3.602	30.95	ADR	33.8	-33	.09	31.84	54	-22.16	-	-	-	-	1	100	H
* 4.699	42.32	PK-U	34.2	-31.4	0	45.12	-	-	74	-28.88	-	-	1	100	H
* 4.701	31.22	ADR	34.2	-31.4	.09	34.11	54	-19.89	-	-	-	-	1	100	H
* 7.447	40.24	PK-U	35.3	-29.9	0	45.64	-	-	74	-28.36	-	-	1	100	V
* 7.448	28.79	ADR	35.3	-29.9	.09	34.28	54	-19.72	-	-	-	-	1	100	V
* 11.531	36.26	PK-U	38.3	-25.1	0	49.46	-	-	74	-24.54	-	-	1	100	V
* 11.532	24.85	ADR	38.3	-25.1	.09	38.14	54	-15.86	-	-	-	-	1	100	V
* 15.83	33.84	PK-U	40.6	-21.3	0	53.14	-	-	74	-20.86	-	-	1	100	V
* 15.831	22.39	ADR	40.6	-21.3	.09	41.78	54	-12.22	-	-	-	-	1	100	V
1.894	43.41	PK-U	31.7	-34.4	0	40.71	-	-	-	-	68.2	-27.49	1	100	H

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

HORIZONTAL PEAK AND AVERAGE PLOT

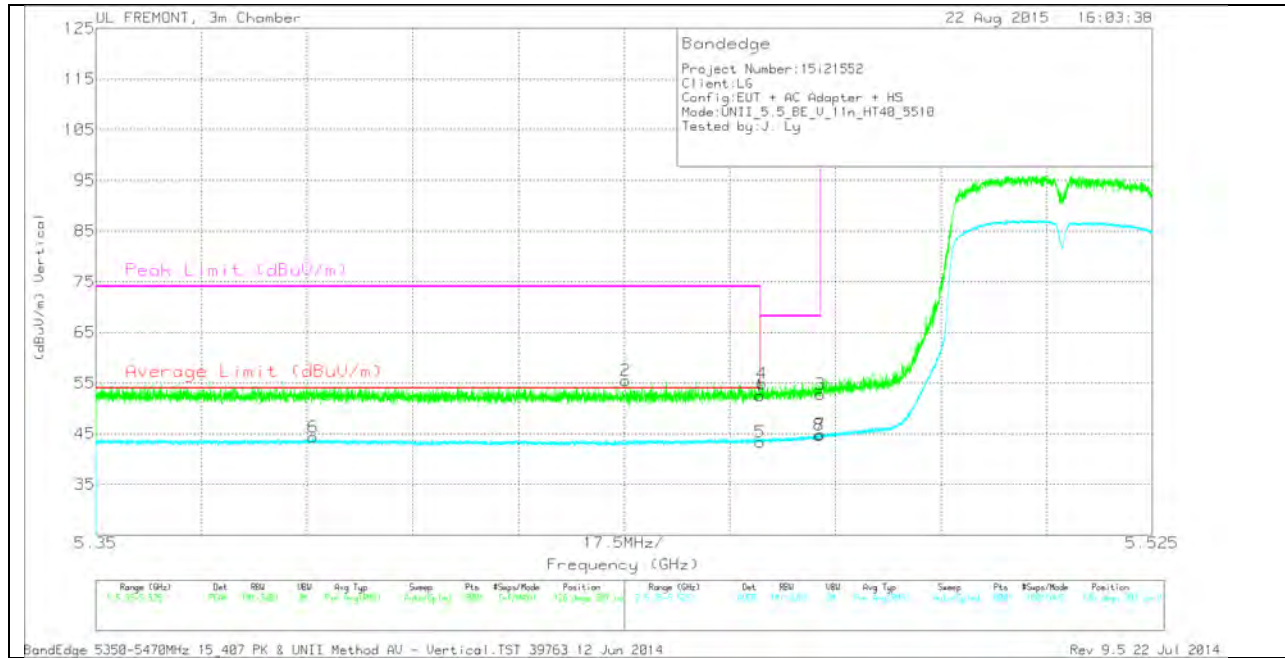


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/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	5.375	41.35	PK	34.6	-20.6	55.35	-	-	74	-18.65	29	264	H
6	5.392	30.12	RMS	34.6	-20.6	44.12	54	-9.88	-	-	29	264	H
1	5.46	39.33	PK	34.6	-20.7	53.23	-	-	74	-20.77	29	264	H
5	5.46	29.52	RMS	34.6	-20.7	43.42	54	-10.58	-	-	29	264	H
4	5.463	41.23	PK	34.6	-20.7	55.13	-	-	68.2	-13.07	29	264	H
3	5.47	38.95	PK	34.6	-20.6	52.95	-	-	68.2	-15.25	29	264	H
7	5.47	30.1	RMS	34.6	-20.6	44.1	-	-	-	-	29	264	H
8	5.47	30.36	RMS	34.6	-20.6	44.36	-	-	-	-	29	264	H

VERTICAL PEAK AND AVERAGE PLOT



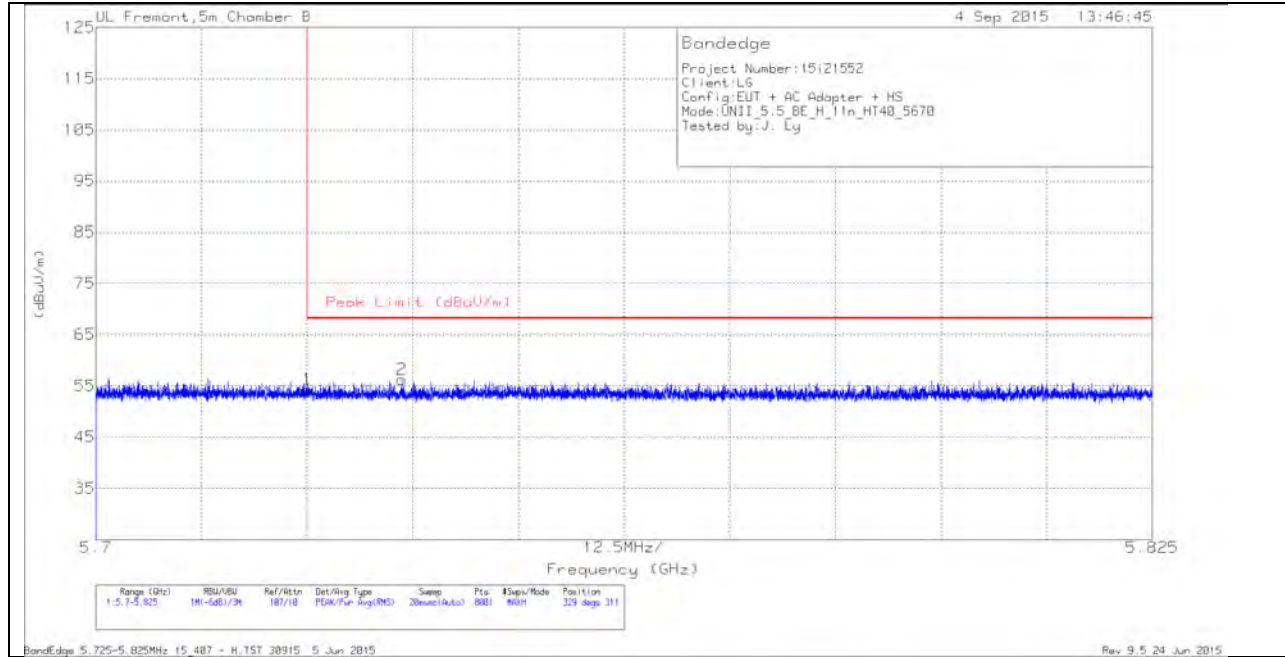
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	5.386	30.29	RMS	34.6	-20.6	44.29	54	-9.71	-	-	126	387	V
2	5.438	41.51	PK	34.6	-20.6	55.51	-	-	74	-18.49	126	387	V
1	5.46	38.57	PK	34.6	-20.7	52.47	-	-	74	-21.53	126	387	V
4	5.46	41.02	PK	34.6	-20.7	54.92	-	-	68.2	-13.28	126	387	V
5	5.46	29.47	RMS	34.6	-20.7	43.37	54	-10.63	-	-	126	387	V
3	5.47	38.79	PK	34.6	-20.6	52.79	-	-	68.2	-15.41	126	387	V
7	5.47	30.87	RMS	34.6	-20.6	44.87	-	-	-	-	126	387	V
8	5.47	30.72	RMS	34.6	-20.6	44.72	-	-	-	-	126	387	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

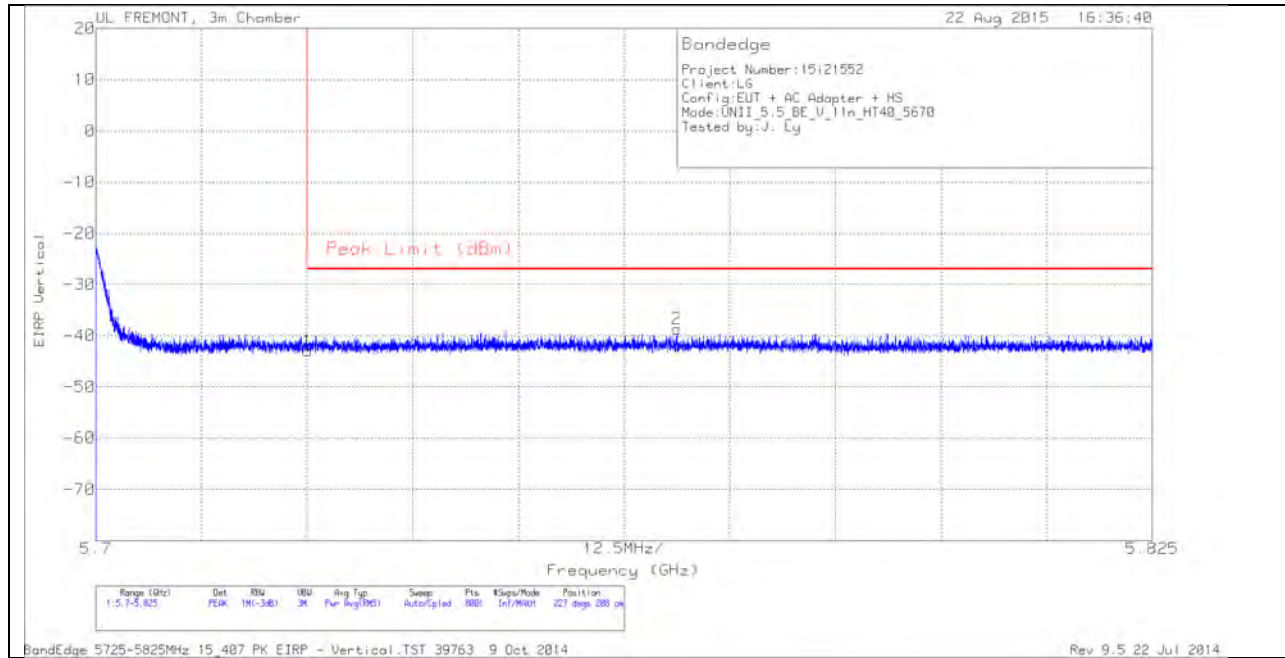


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.96	Pk	35	-21.7	54.26	68.2	-13.94	329	311	H
2	5.736	42.99	Pk	35	-21.7	56.29	68.2	-11.91	329	311	H

VERTICAL PEAK AND AVERAGE PLOT



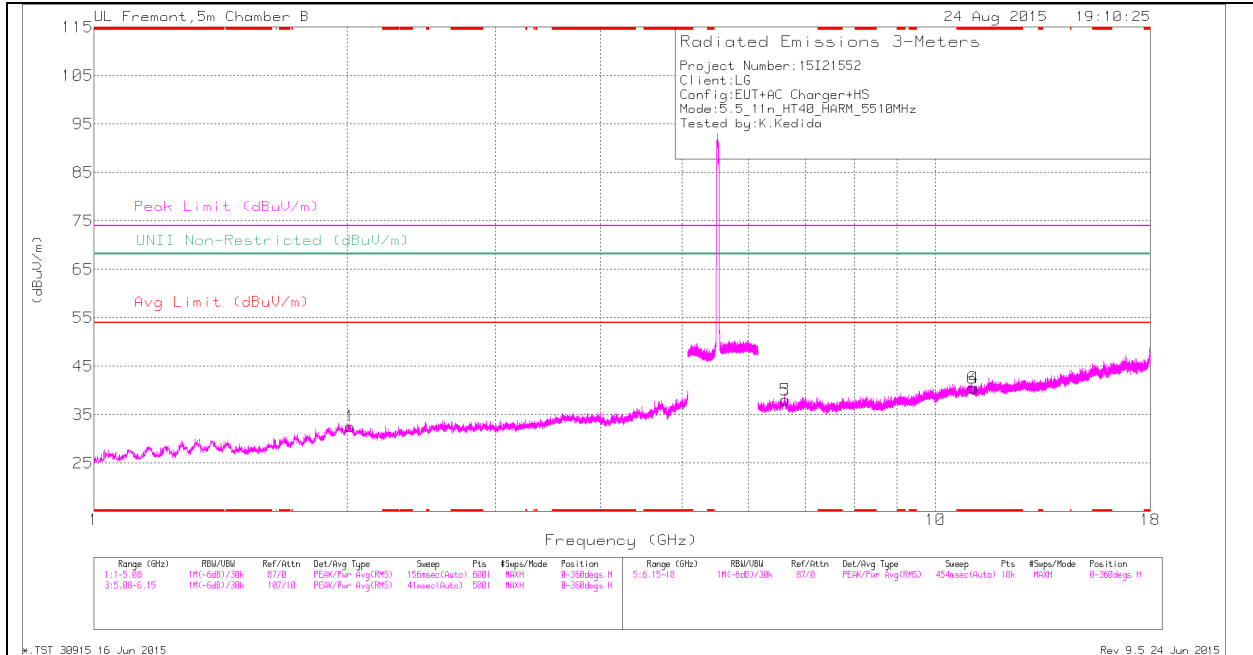
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	5.725	-69.29	PK	34.8	-20.3	11.8	-42.99	-27	-15.99	227	208	V
2	5.769	-64.84	PK	34.8	-20.4	11.8	-38.64	-27	-11.64	227	208	V

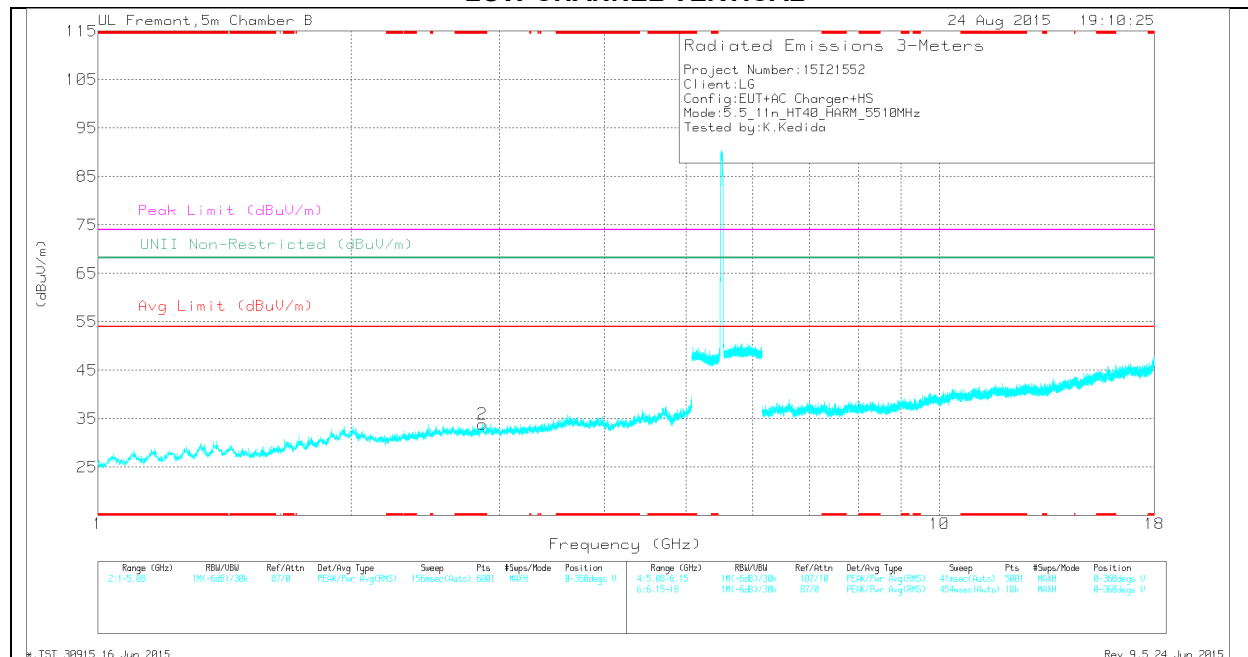
HARMONICS AND SPURIOUS EMISSIONS

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

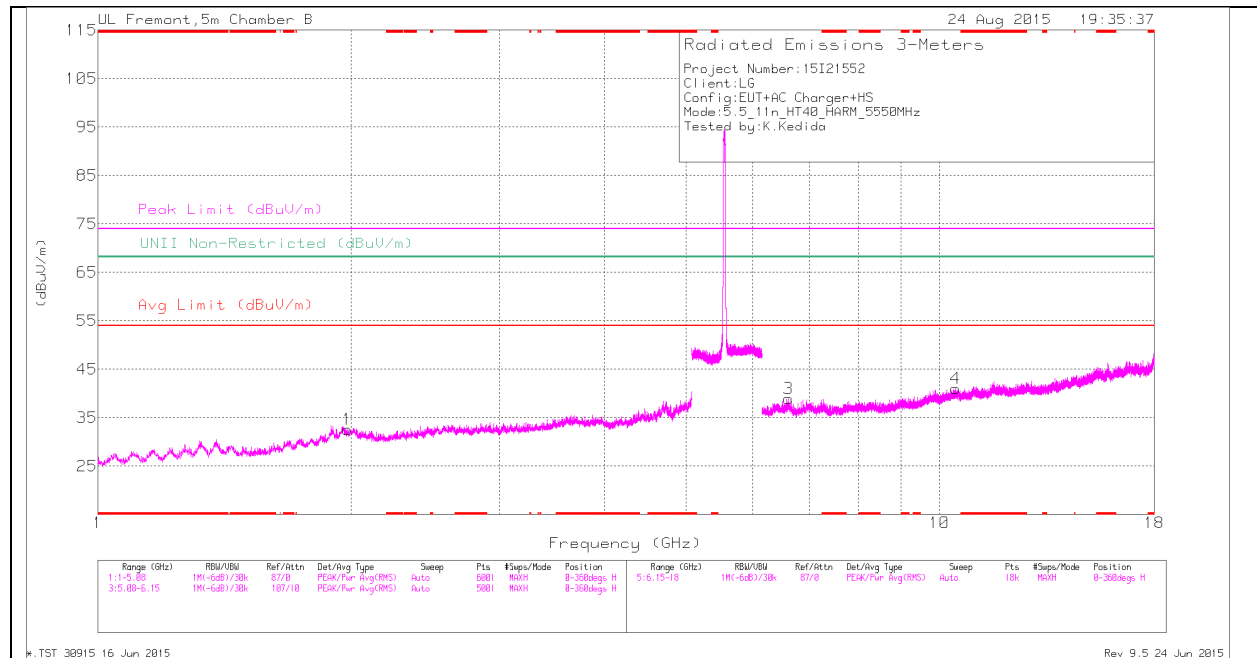
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.865	34.68	Pk	32.6	-33.4	33.88	-	-	74	-40.12	-	-	0-360	101	V
4	* 11.119	28.23	Pk	37.8	-25.5	40.53	-	-	74	-33.47	-	-	0-360	101	H
6	* 11.063	27.95	Pk	37.8	-25.3	40.45	-	-	74	-33.55	-	-	0-360	101	H
1	2.017	34.24	Pk	32.3	-34	32.54	-	-	-	-	68.2	-35.66	0-360	199	H
3	6.626	31.71	Pk	35.9	-29.6	38.01	-	-	-	-	68.2	-30.19	0-360	101	H
5	6.626	31.71	Pk	35.9	-29.6	38.01	-	-	-	-	68.2	-30.19	0-360	101	H

PK - Peak detector

RADIATED EMISSIONS

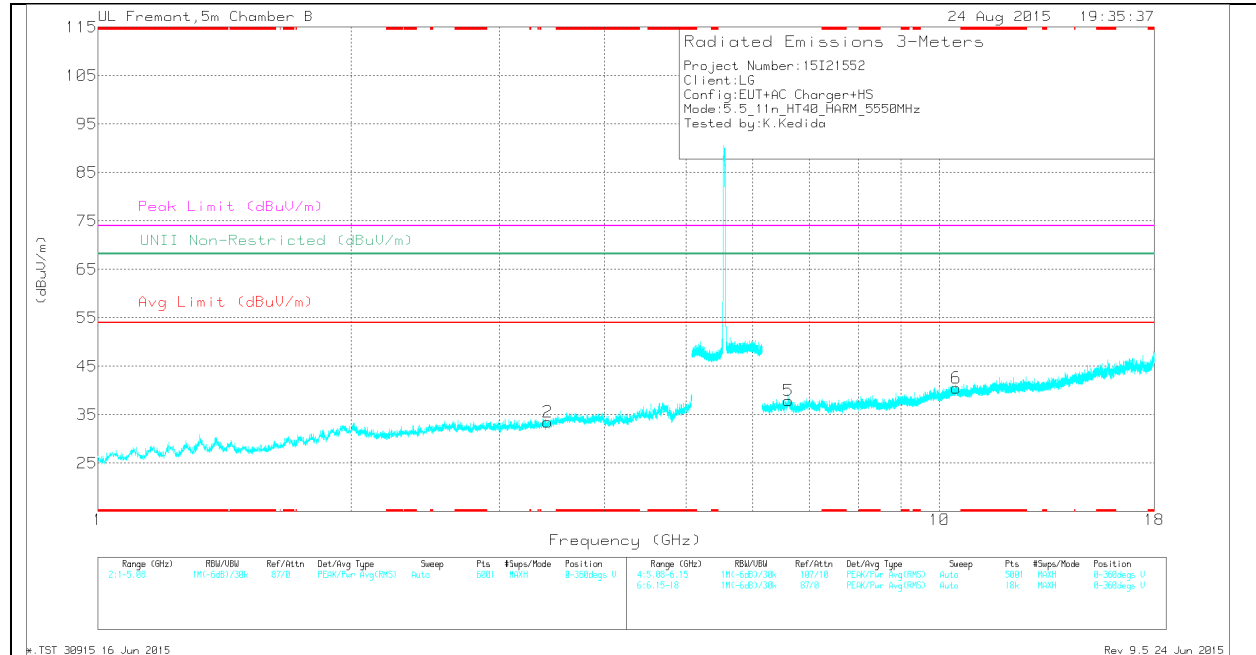
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.863	42.6	PK-U	32.6	-33.5	41.7	-	-	74	-32.3	-	-	0	102	V
* 2.864	30.8	ADR	32.6	-33.4	30	54	-24	-	-	-	-	0	102	V
* 11.12	36.5	PK-U	37.8	-25.5	48.8	-	-	74	-25.2	-	-	0	102	H
* 11.118	25.35	ADR	37.8	-25.5	37.65	54	-16.35	-	-	-	-	0	102	H
* 11.065	36.64	PK-U	37.8	-25.3	49.14	-	-	74	-24.86	-	-	0	102	H
* 11.064	25.3	ADR	37.8	-25.3	37.8	54	-16.2	-	-	-	-	0	102	H
2.015	43.18	PK-U	32.3	-34	41.48	-	-	-	-	68.2	-26.72	0	199	H
6.624	40.18	PK-U	35.9	-29.6	46.48	-	-	-	-	68.2	-21.72	0	102	H

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

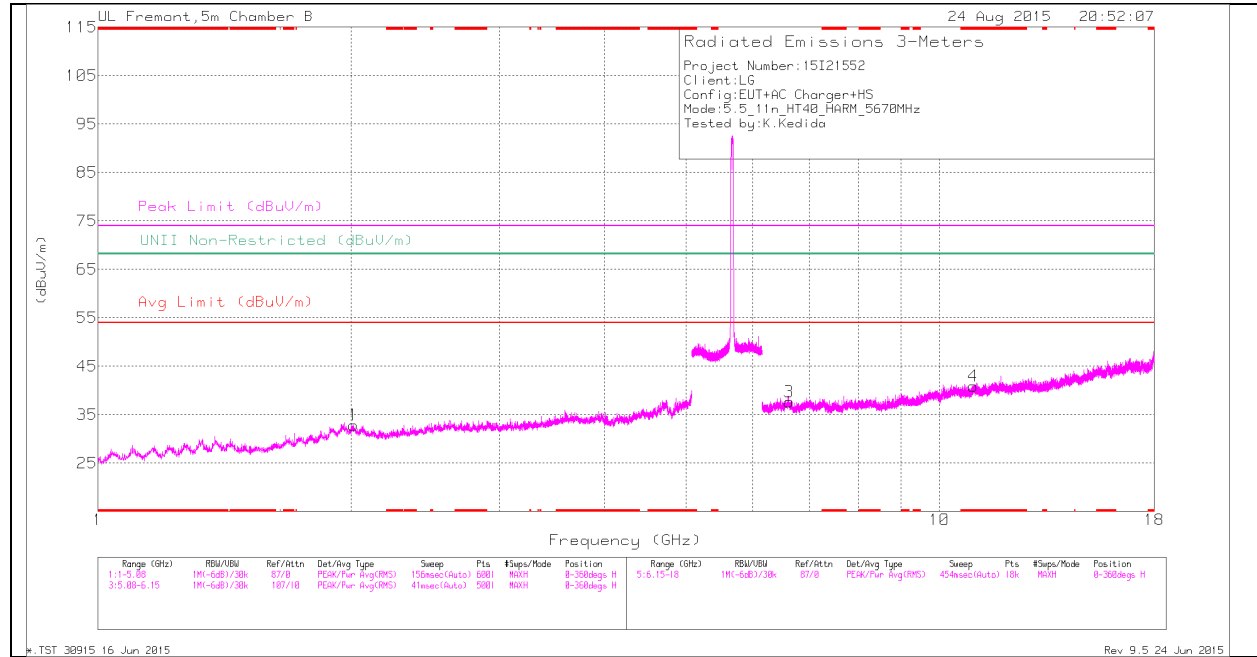
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.979	33.97	Pk	32.2	-33.6	32.57	-	-	-	-	68.2	-35.63	0-360	102	H
2	3.421	33.84	Pk	33.1	-33.5	33.44	-	-	-	-	68.2	-34.76	0-360	199	V
3	6.611	32.79	Pk	36	-29.9	38.89	-	-	-	-	68.2	-29.31	0-360	101	H
5	6.615	31.72	Pk	36	-29.8	37.92	-	-	-	-	68.2	-30.28	0-360	199	V
4	10.451	28.79	Pk	37.4	-25.2	40.99	-	-	-	-	68.2	-27.21	0-360	199	H
6	10.469	28.26	Pk	37.4	-25.2	40.46	-	-	-	-	68.2	-27.74	0-360	101	V

PK - Peak detector

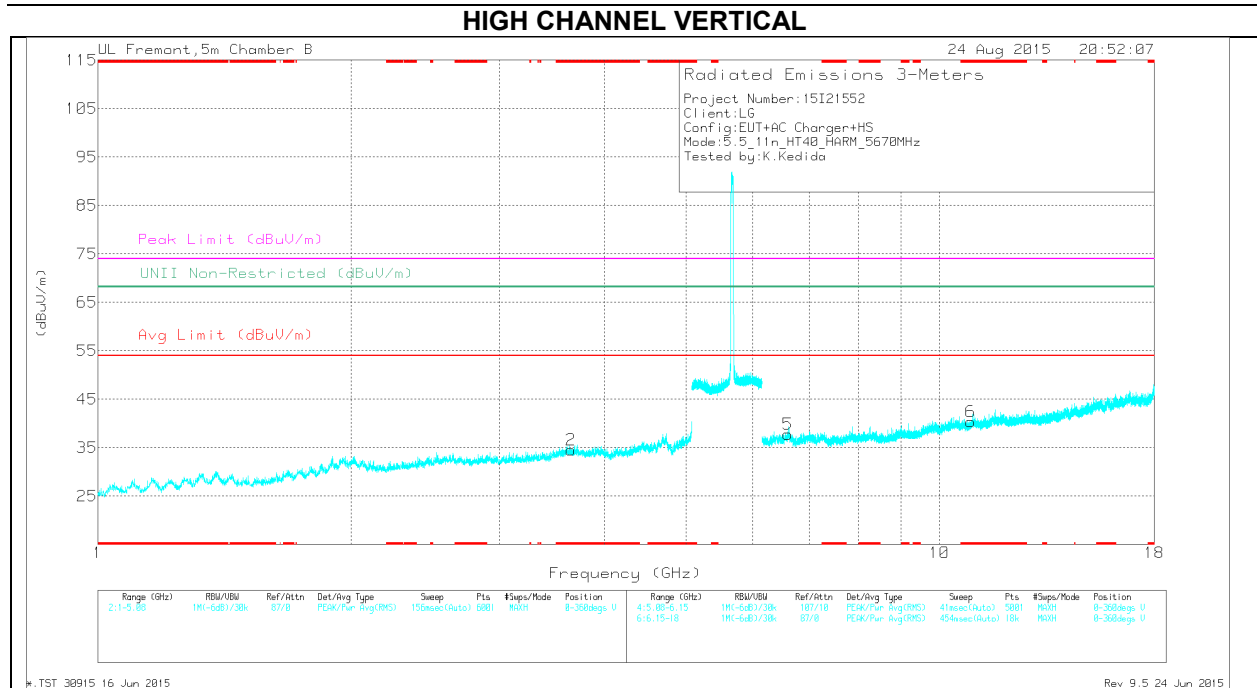
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
1.977	41.59	PK-U	32.2	-33.6	40.19	-	-	-	-	68.2	-28.01	1	101	H
3.422	42.64	PK-U	33.1	-33.5	42.24	-	-	-	-	68.2	-25.96	1	198	V
6.612	40.64	PK-U	36	-29.9	46.74	-	-	-	-	68.2	-21.46	1	102	H
6.617	40.38	PK-U	35.9	-29.8	46.48	-	-	-	-	68.2	-21.72	1	198	V
10.47	35.99	PK-U	37.4	-25.2	48.19	-	-	-	-	68.2	-20.01	1	102	V

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.



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

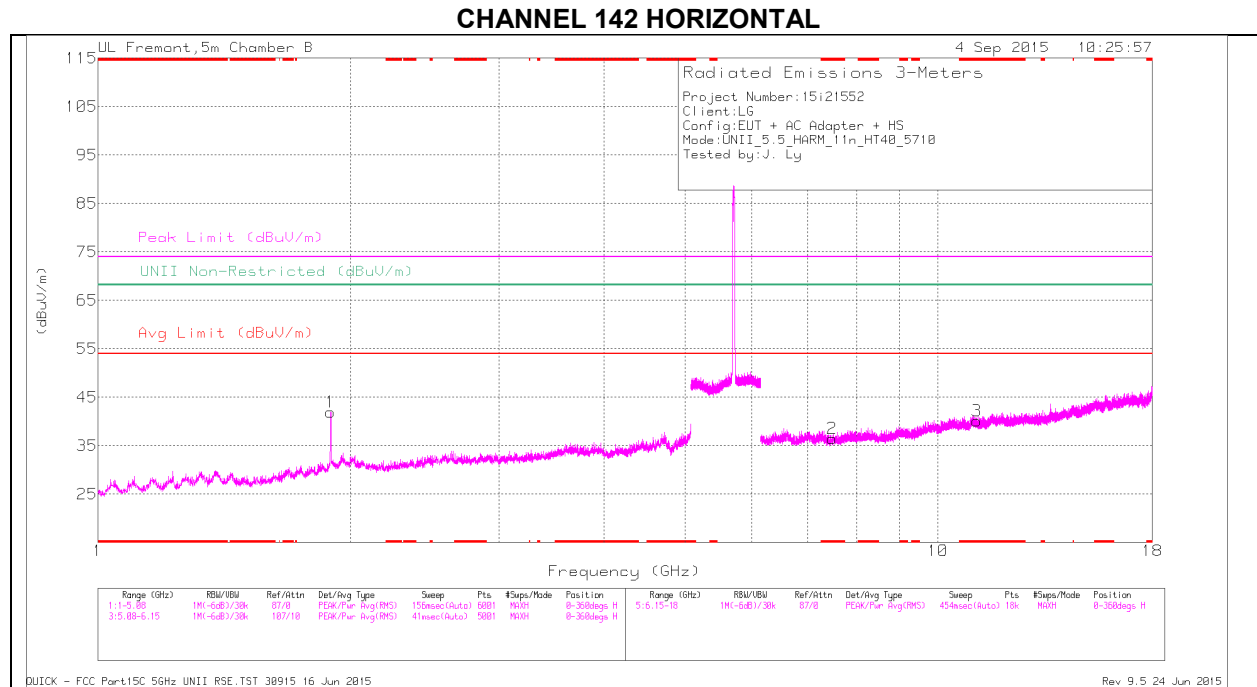
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
2	* 3.651	34.06	Pk	33.7	-33.2	34.56	-	-	74	-39.44	-	-	0-360	199	V
4	* 10.969	27.93	Pk	37.7	-24.7	40.93	-	-	74	-33.07	-	-	0-360	101	H
6	* 10.896	28.54	Pk	37.6	-25.8	40.34	-	-	74	-33.66	-	-	0-360	101	V
1	2.013	34.59	Pk	32.3	-34.1	32.79	-	-	-	-	68.2	-35.41	0-360	199	H
5	6.608	31.83	Pk	36	-30	37.83	-	-	-	-	68.2	-30.37	0-360	101	V
3	6.625	31.3	Pk	35.9	-29.6	37.6	-	-	-	-	68.2	-30.6	0-360	199	H

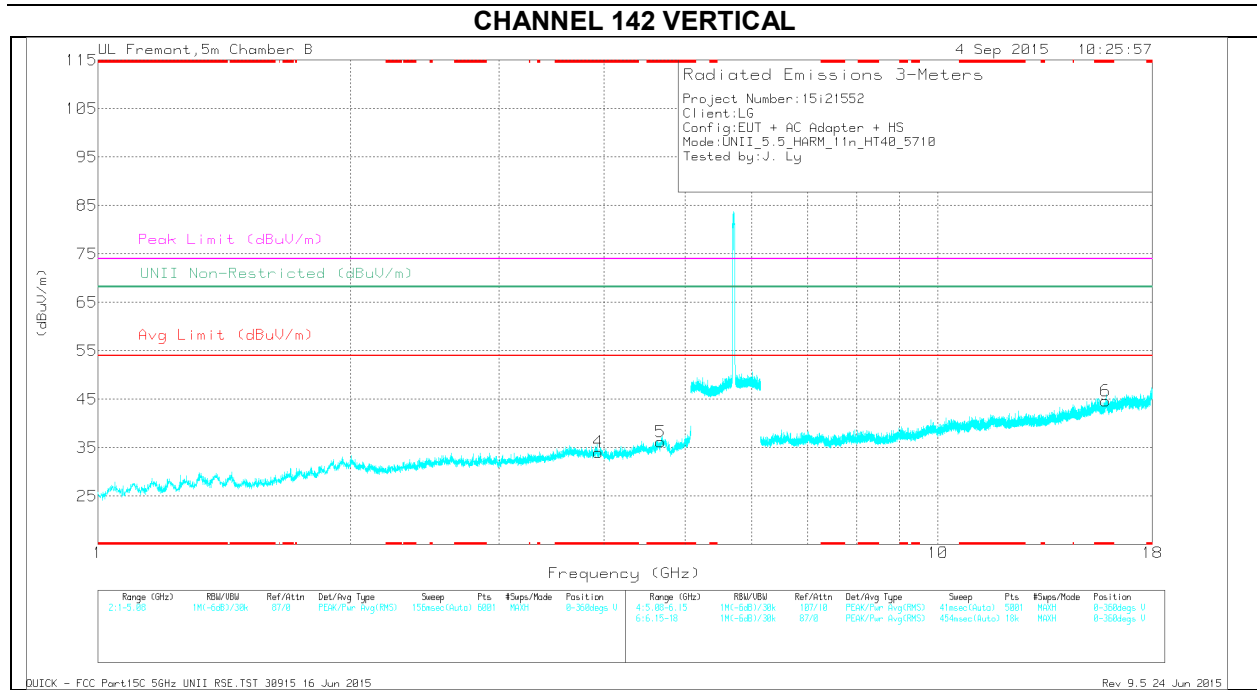
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.65	43.05	PK-U	33.7	-33.2	43.55	-	-	74	-30.45	-	-	0	199	V
* 3.651	30.99	ADR	33.7	-33.2	31.49	54	-22.51	-	-	-	-	0	199	V
* 10.969	36.22	PK-U	37.7	-24.8	49.12	-	-	74	-24.88	-	-	0	102	H
* 10.969	25.05	ADR	37.7	-24.8	37.95	54	-16.05	-	-	-	-	0	102	H
* 10.894	36.44	PK-U	37.6	-25.8	48.24	-	-	74	-25.76	-	-	0	102	V
* 10.898	25.23	ADR	37.6	-25.8	37.03	54	-16.97	-	-	-	-	0	102	V
6.607	40.37	PK-U	36	-30.1	46.27	-	-	-	-	68.2	-21.93	0	102	V
6.623	40.16	PK-U	35.9	-29.7	46.36	-	-	-	-	68.2	-21.84	0	199	H



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



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

CHANNEL 142 DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
4	* 3.94	32.48	Pk	33.4	-31.8	0	34.08	-	-	74	-39.92	-	-	0-360	100	V
5	* 4.677	33.08	Pk	34.2	-31	0	36.28	-	-	74	-37.72	-	-	0-360	100	V
2	* 7.484	30.45	Pk	35.3	-29.3	0	36.45	-	-	74	-37.55	-	-	0-360	100	H
3	* 11.122	27.85	Pk	37.8	-25.5	0	40.15	-	-	74	-33.85	-	-	0-360	100	H
6	* 15.834	25.26	Pk	40.6	-21.2	0	44.66	-	-	74	-29.34	-	-	0-360	100	V
1	1.892	44.67	Pk	31.7	-34.4	0	41.97	-	-	-	-	68.2	-26.23	0-360	100	H

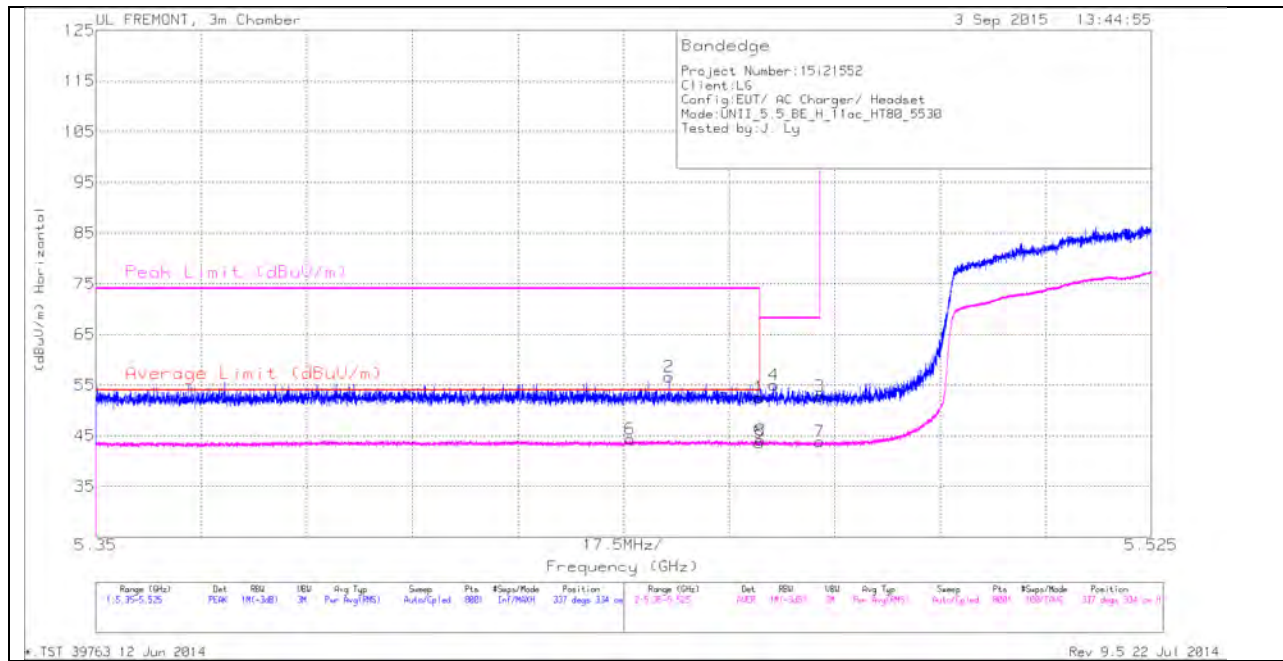
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.939	42.69	PK-U	33.4	-31.8	0	44.29	-	-	74	-29.71	-	-	1	100	V
* 3.942	30.48	ADR	33.4	-31.8	0	32.17	54	-21.83	-	-	-	-	1	100	V
* 4.678	41.93	PK-U	34.2	-31	0	45.13	-	-	74	-28.87	-	-	1	100	V
* 4.676	30.49	ADR	34.2	-31	0	33.78	54	-20.22	-	-	-	-	1	100	V
* 7.484	40.13	PK-U	35.3	-29.3	0	46.13	-	-	74	-27.87	-	-	1	100	H
* 7.482	28.17	ADR	35.3	-29.3	0	34.26	54	-19.74	-	-	-	-	1	100	H
* 11.122	36.31	PK-U	37.8	-25.5	0	48.61	-	-	74	-25.39	-	-	1	100	H
* 11.12	25.24	ADR	37.8	-25.5	0	37.63	54	-16.37	-	-	-	-	1	100	H
1.89	44.05	PK-U	31.7	-34.5	0	41.25	-	-	-	-	68.2	-26.95	1	100	H

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

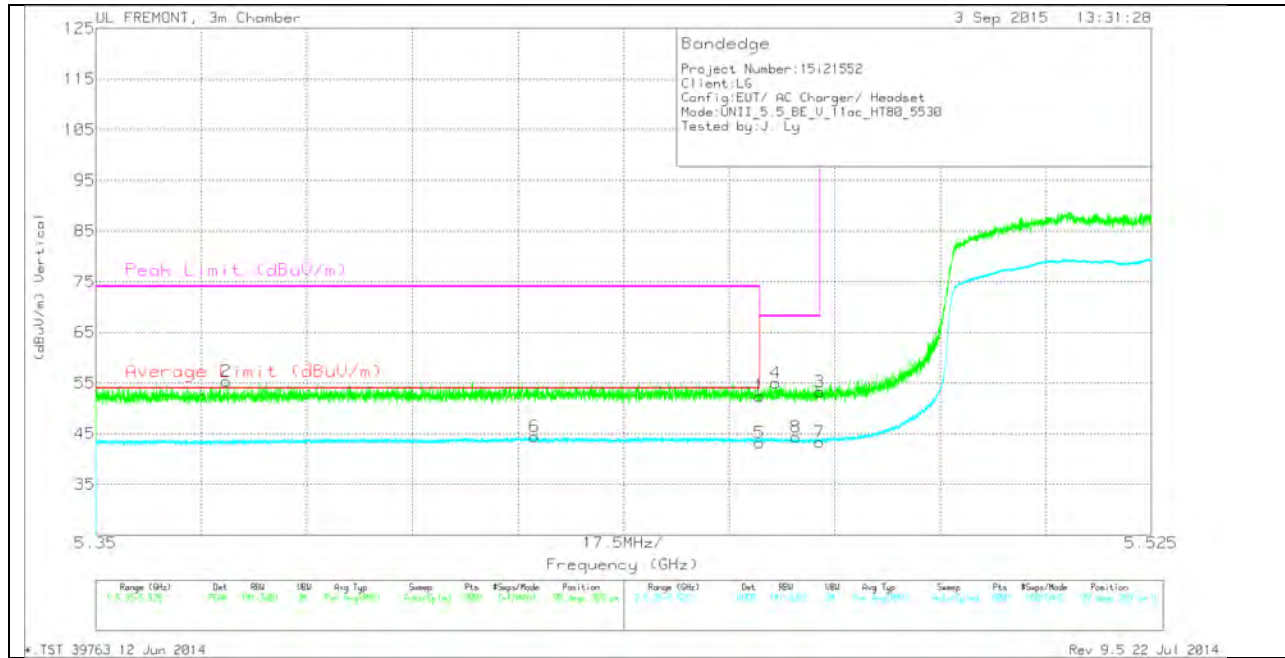
LOWER EDGE, HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	5.439	30.29	RMS	34.6	-20.6	44.29	54	-9.71	-	-	337	334	H
2	5.445	42.61	PK	34.6	-20.6	56.61	-	-	74	-17.39	337	334	H
1	5.46	38.62	PK	34.6	-20.7	52.52	-	-	74	-21.48	337	334	H
5	5.46	29.73	RMS	34.6	-20.7	43.63	54	-10.37	-	-	337	334	H
8	5.46	30.19	RMS	34.6	-20.7	44.09	-	-	-	-	337	334	H
4	5.462	41.1	PK	34.6	-20.7	55	-	-	68.2	-13.2	337	334	H
3	5.47	38.75	PK	34.6	-20.6	52.75	-	-	68.2	-15.45	337	334	H
7	5.47	29.8	RMS	34.6	-20.6	43.8	-	-	-	-	337	334	H

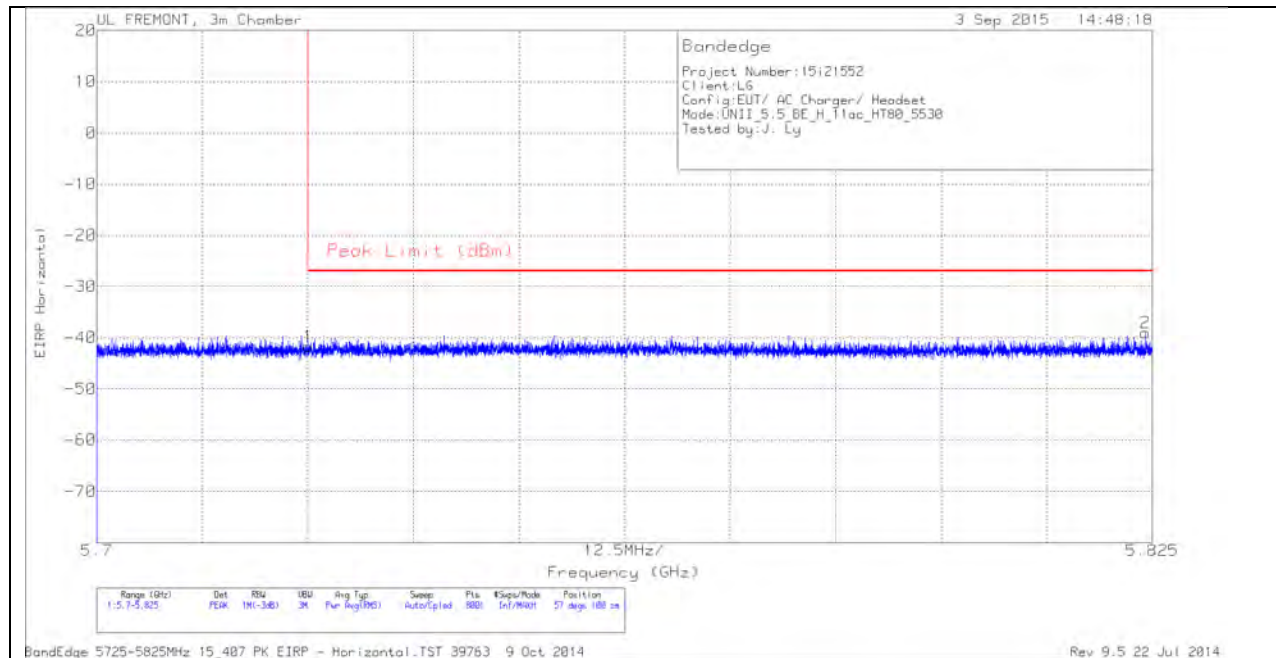
LOWER EDGE, VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/ Filtr/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	5.372	41.48	PK	34.6	-20.7	55.38	-	-	74	-18.62	99	369	V
6	5.423	30.51	RMS	34.6	-20.6	44.51	54	-9.49	-	-	99	369	V
1	5.46	38.56	PK	34.6	-20.7	52.46	-	-	74	-21.54	99	369	V
5	5.46	29.32	RMS	34.6	-20.7	43.22	54	-10.78	-	-	99	369	V
4	5.463	41.08	PK	34.6	-20.7	54.98	-	-	68.2	-13.22	99	369	V
8	5.466	30.3	RMS	34.6	-20.6	44.3	-	-	-	-	99	369	V
3	5.47	39.28	PK	34.6	-20.6	53.28	-	-	68.2	-14.92	99	369	V
7	5.47	29.34	RMS	34.6	-20.6	43.34	-	-	-	-	99	369	V

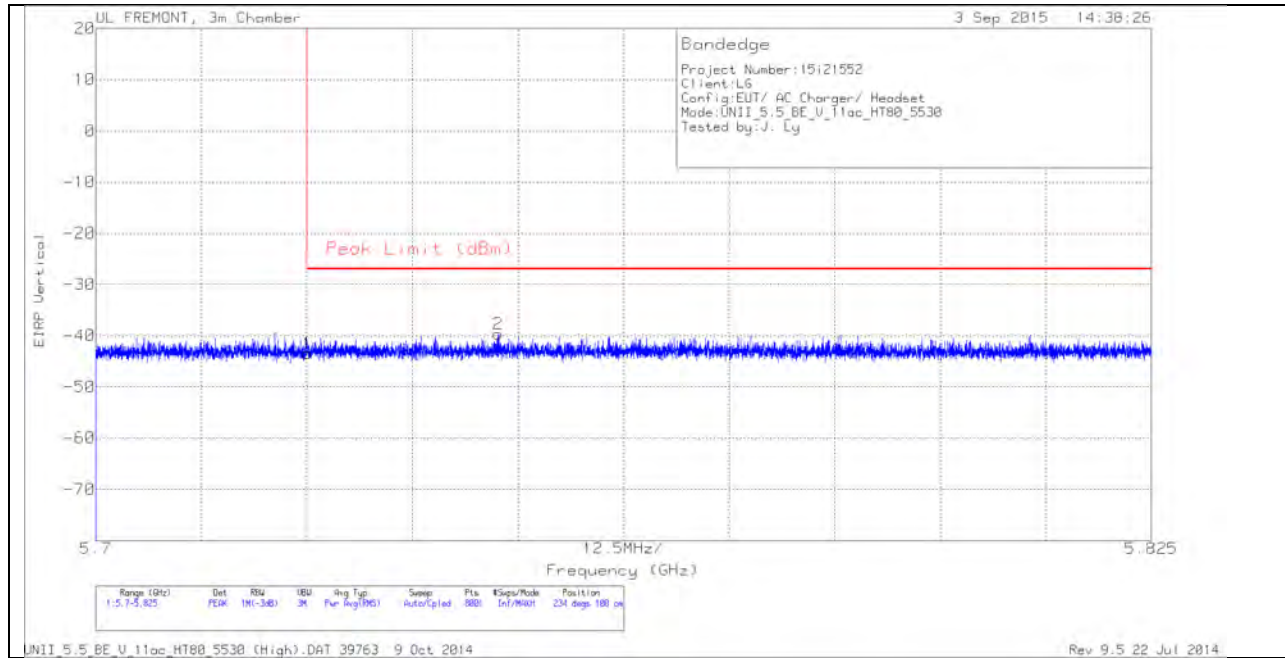
HIGHER EDGE, HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	5.725	-68.06	PK	34.8	-20.3	11.8	-41.76	-27	-14.76	57	100	H
2	5.824	-65.24	PK	34.9	-20.5	11.8	-39.04	-27	-12.04	57	100	H

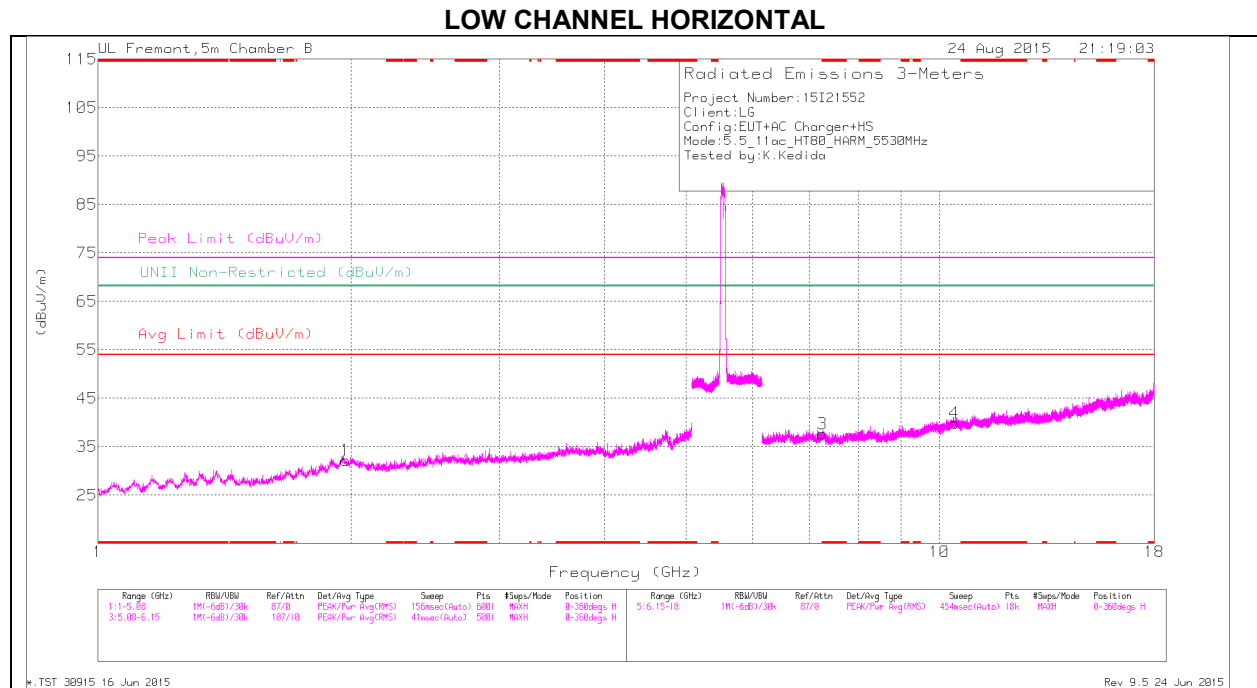
HIGHER EDGE, VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

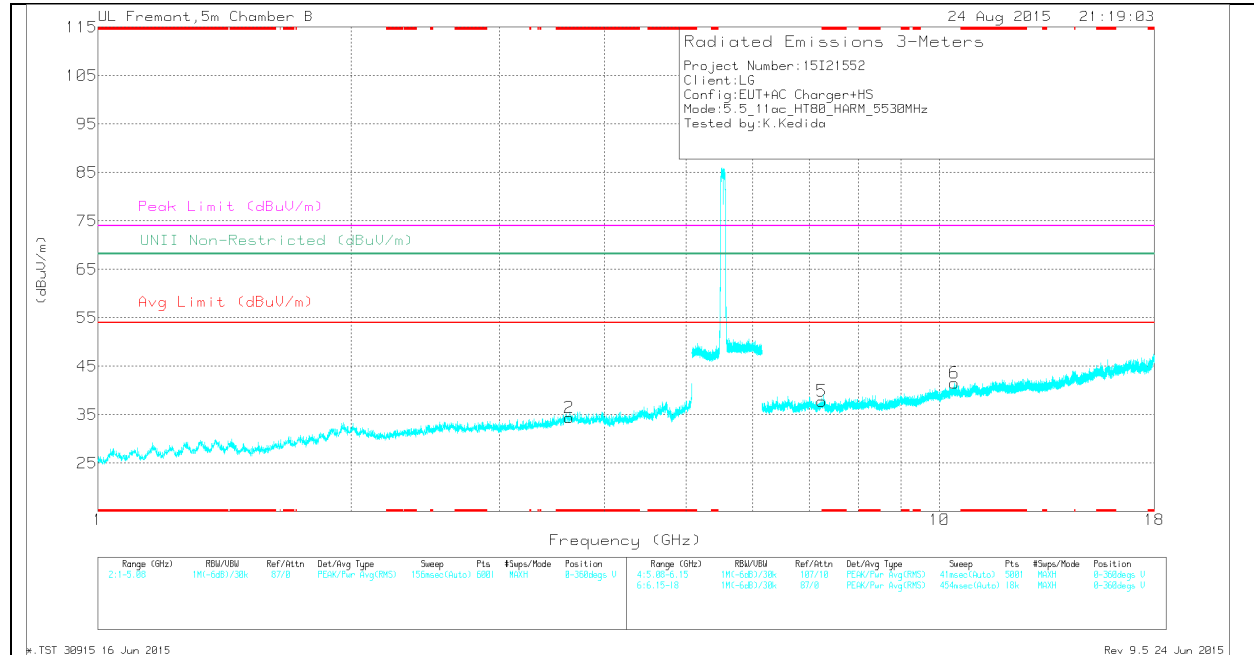
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-69.75	PK	34.8	-20.3	11.8	-43.45	-27	-16.45	234	100	V
2	5.748	-65.87	PK	34.8	-20.4	11.8	-39.67	-27	-12.67	234	100	V

HARMONICS AND SPURIOUS EMISSIONS



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

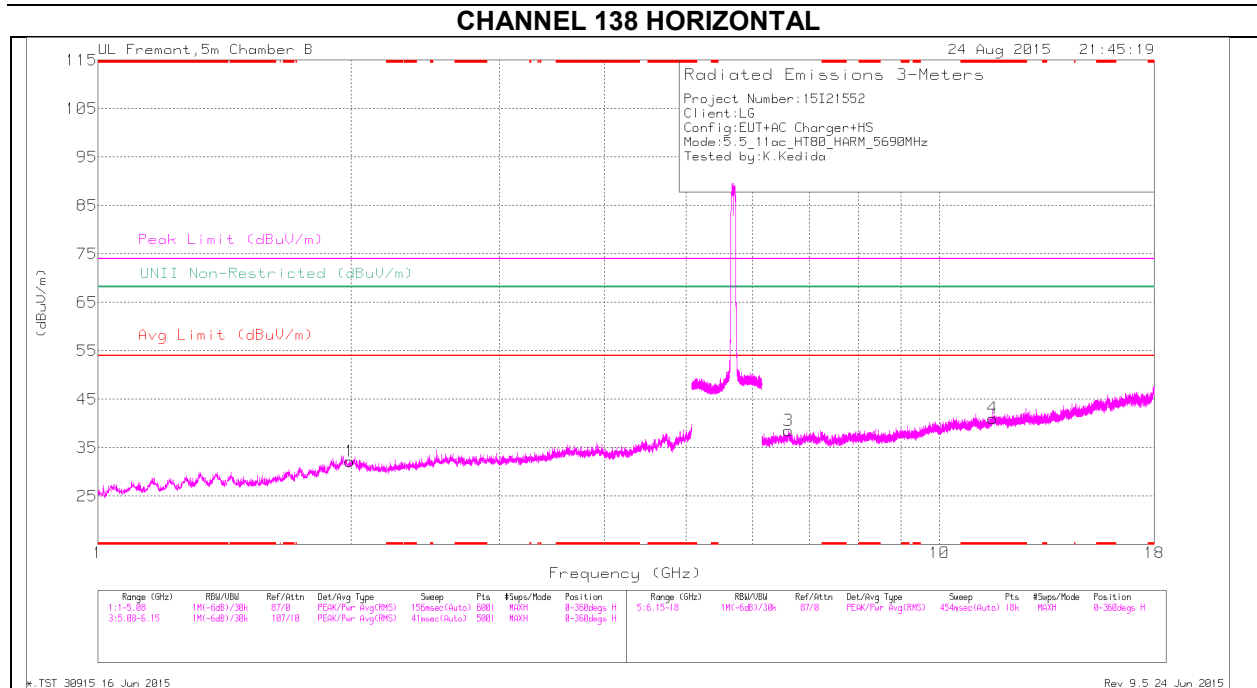
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
2	* 3.628	33.88	Pk	33.8	-33.3	34.38	-	-	74	-39.62	-	-	0-360	101	V
3	* 7.261	30.51	Pk	35.3	-28.2	37.61	-	-	74	-36.39	-	-	0-360	199	H
1	1.969	33.56	Pk	32.2	-33.6	32.16	-	-	-	-	68.2	-36.04	0-360	199	H
5	7.243	30.84	Pk	35.3	-28.3	37.84	-	-	-	-	68.2	-30.36	0-360	199	V
4	10.414	27.78	Pk	37.4	-25.3	39.88	-	-	-	-	68.2	-28.32	0-360	199	H
6	10.415	29.46	Pk	37.4	-25.3	41.56	-	-	-	-	68.2	-26.64	0-360	199	V

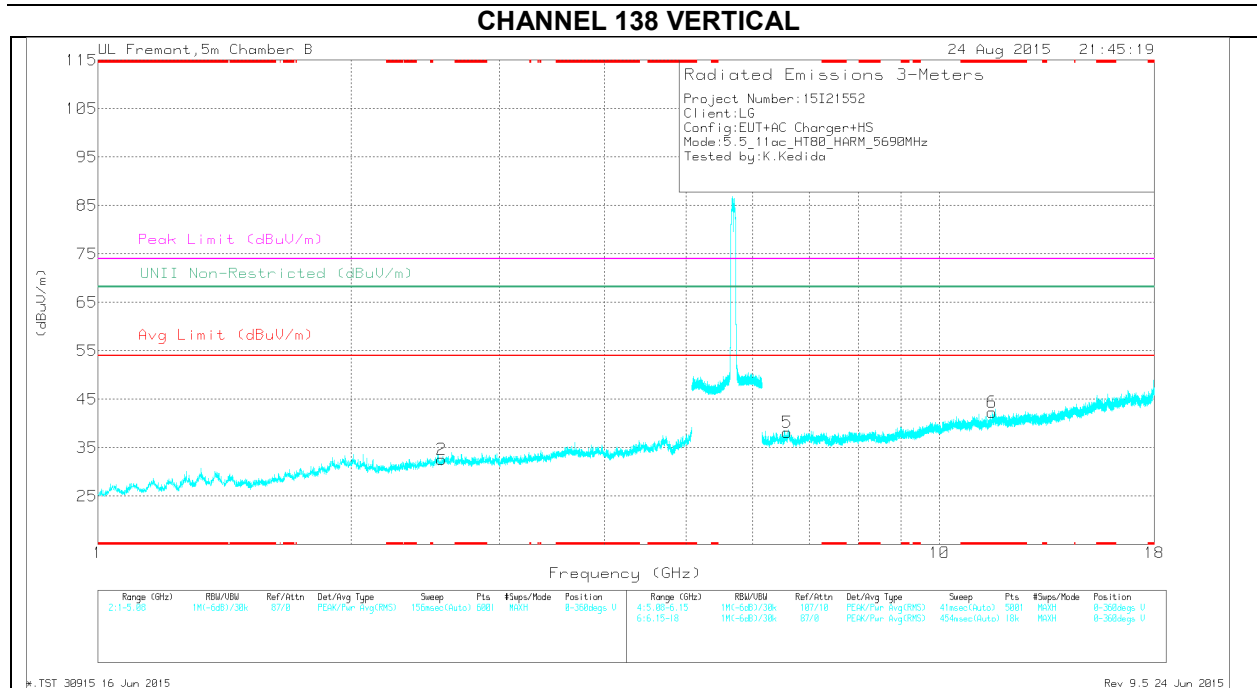
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.626	42.29	PK-U	33.8	-33.3	42.79	-	-	74	-31.21	-	-	1	102	V
* 3.629	30.99	ADR	33.8	-33.4	31.39	54	-22.61	-	-	-	-	1	102	V
* 7.261	39.63	PK-U	35.3	-28.1	46.83	-	-	74	-27.17	-	-	1	198	H
* 7.263	27.65	ADR	35.3	-28.2	34.75	54	-19.25	-	-	-	-	1	198	H
7.243	38.83	PK-U	35.3	-28.3	45.83	-	-	-	-	68.2	-22.37	1	198	V
10.414	36.4	PK-U	37.4	-25.3	48.5	-	-	-	-	68.2	-19.7	1	198	H
10.417	36.37	PK-U	37.4	-25.3	48.47	-	-	-	-	68.2	-19.73	1	198	V



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



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

CHANNEL 138 DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
4	* 11.57	27.29	Pk	38.4	-24.6	41.09	-	-	74	-32.91	-	-	0-360	101	H
6	* 11.549	28.72	Pk	38.3	-24.7	42.32	-	-	74	-31.68	-	-	0-360	101	V
1	1.991	33.77	Pk	32.3	-33.9	32.17	-	-	-	-	68.2	-36.03	0-360	199	H
2	2.56	33.63	Pk	32.7	-33.8	32.53	-	-	-	-	68.2	-35.67	0-360	101	V
5	6.596	32.55	Pk	36	-30.4	38.15	-	-	-	-	68.2	-30.05	0-360	200	V
3	6.618	32.38	Pk	35.9	-29.7	38.58	-	-	-	-	68.2	-29.62	0-360	101	H

PK - Peak detector

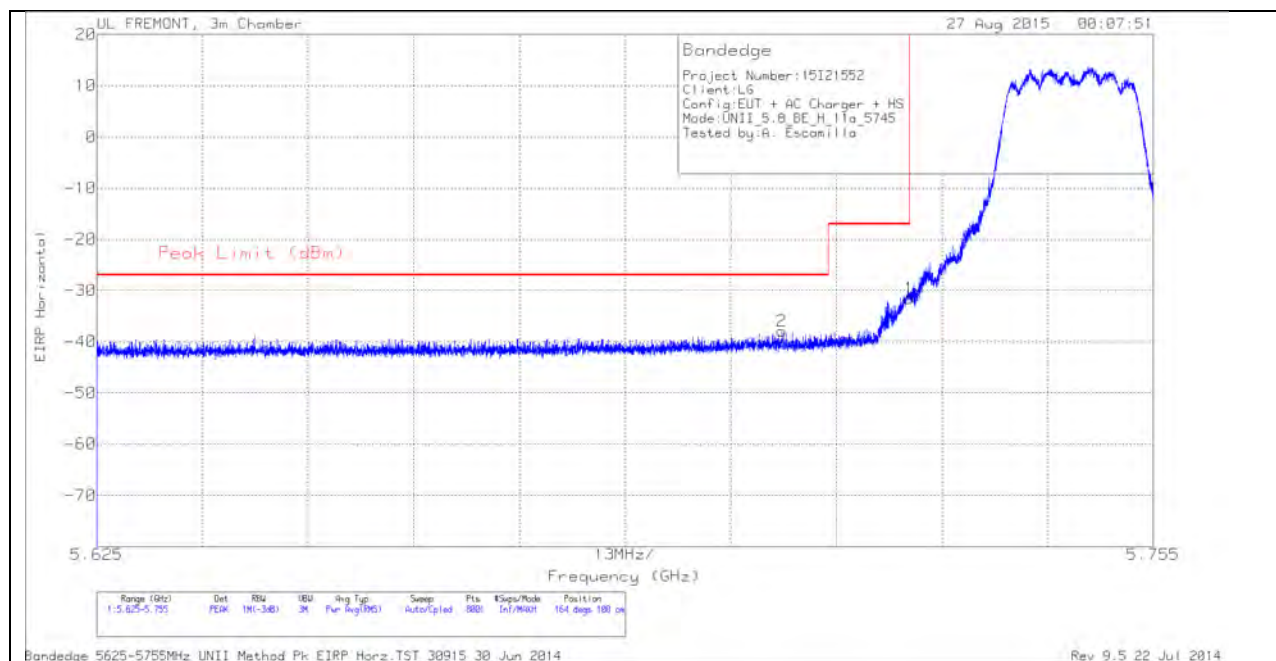
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 11.57	35.54	PK-U	38.4	-24.6	49.34	-	-	74	-24.66	-	-	1	102	H
* 11.569	24.68	ADR	38.4	-24.6	38.48	54	-15.52	-	-	-	-	1	102	H
* 11.548	36.22	PK-U	38.3	-24.7	49.82	-	-	74	-24.18	-	-	1	102	V
* 11.551	24.76	ADR	38.3	-24.7	38.36	54	-15.64	-	-	-	-	1	102	V
1.99	42.62	PK-U	32.3	-33.9	41.02	-	-	-	-	68.2	-27.18	1	198	H
2.561	41.85	PK-U	32.7	-33.8	40.75	-	-	-	-	68.2	-27.45	1	102	V
6.598	40.91	PK-U	36	-30.4	46.51	-	-	-	-	68.2	-21.69	1	199	V

10.3. 5.8 GHz

10.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

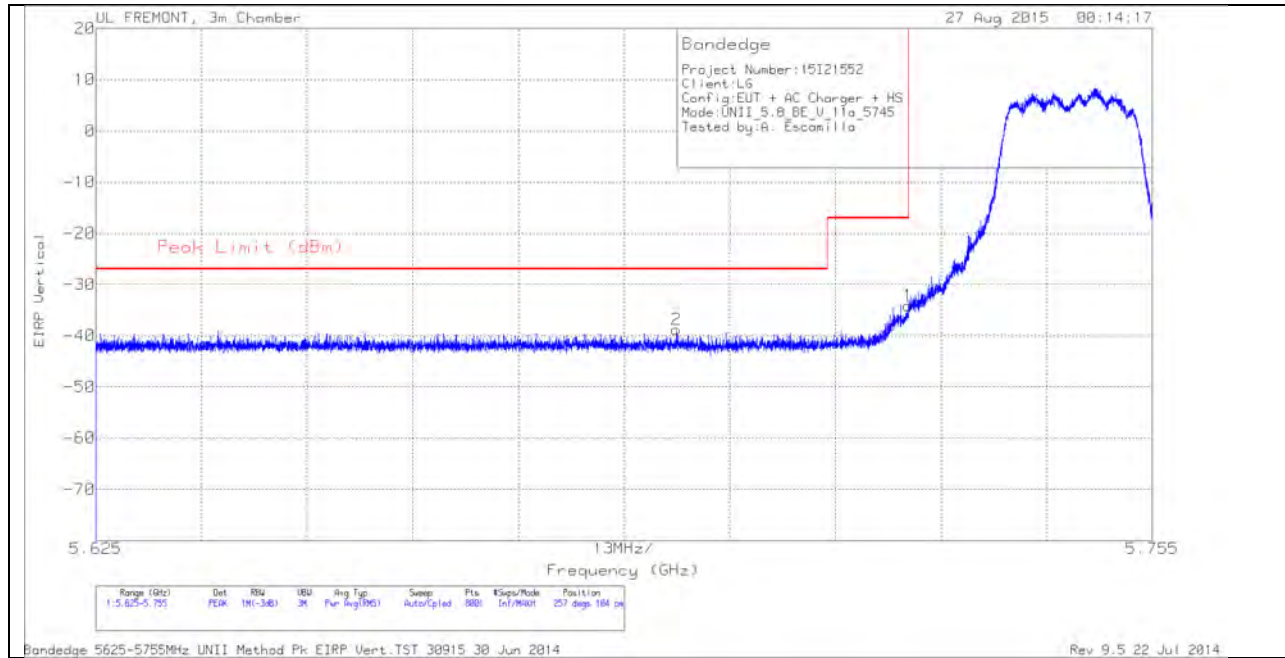


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.709	-64.13	PK	34.7	-20.3	11.8	0	-37.93	-27	-10.93	164	100	H
1	5.725	-57.82	PK	34.8	-20.3	11.8	0	-31.52	-17	-14.52	164	100	H

VERTICAL PEAK AND AVERAGE PLOT



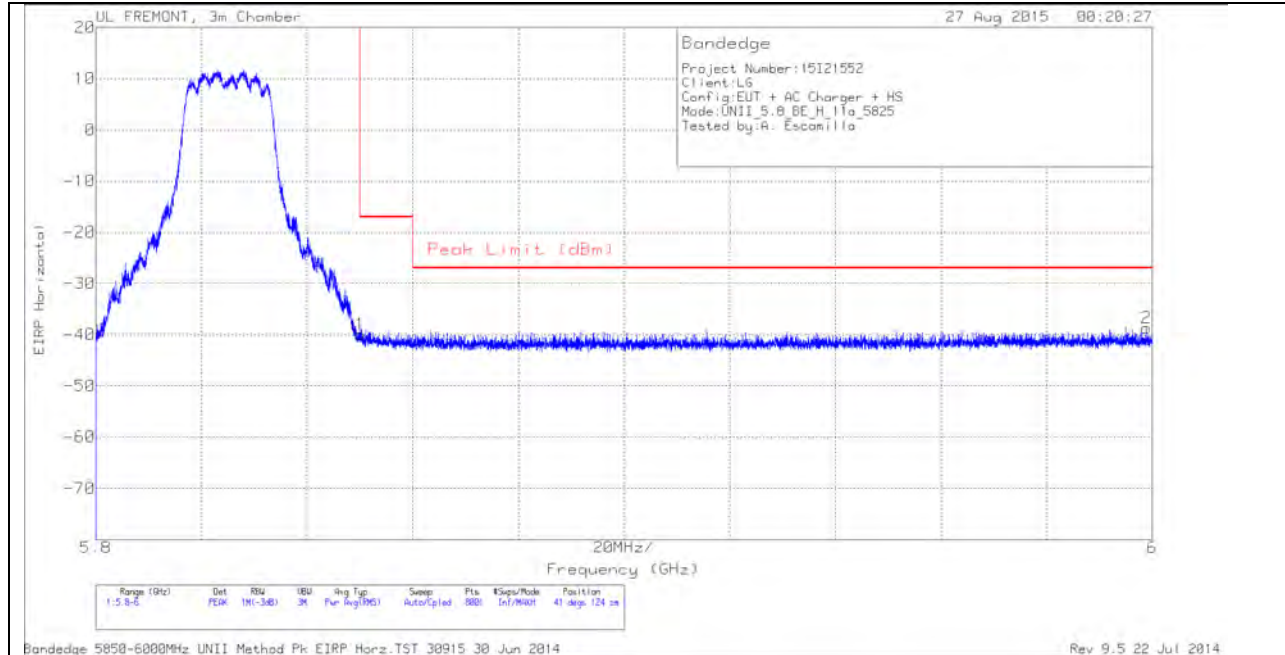
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.696	-65	PK	34.7	-20.3	11.8	0	-38.8	-27	-11.8	257	104	V
1	5.725	-60.44	PK	34.8	-20.3	11.8	0	-34.14	-17	-17.14	257	104	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

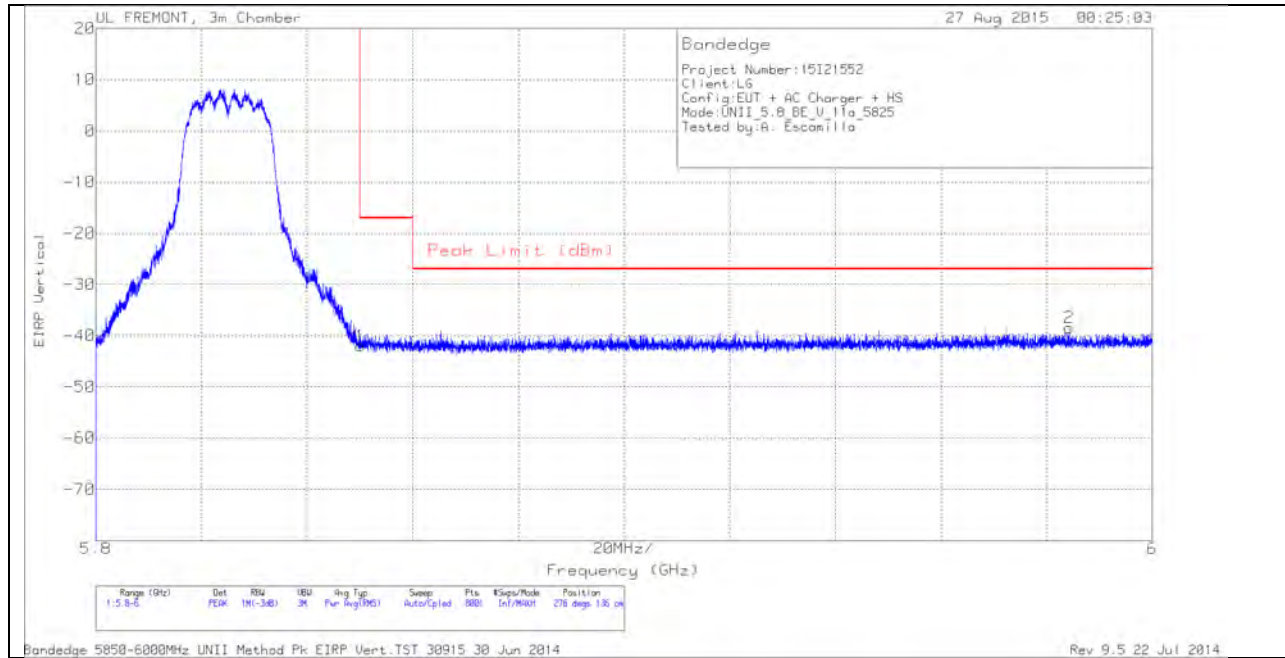


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (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	-66.01	PK	34.9	-20.6	11.8	0	-39.91	-17	-22.91	41	124	H
2	5.999	-65.52	PK	35.2	-20.1	11.8	0	-38.62	-27	-11.62	41	124	H

VERTICAL PEAK AND AVERAGE PLOT



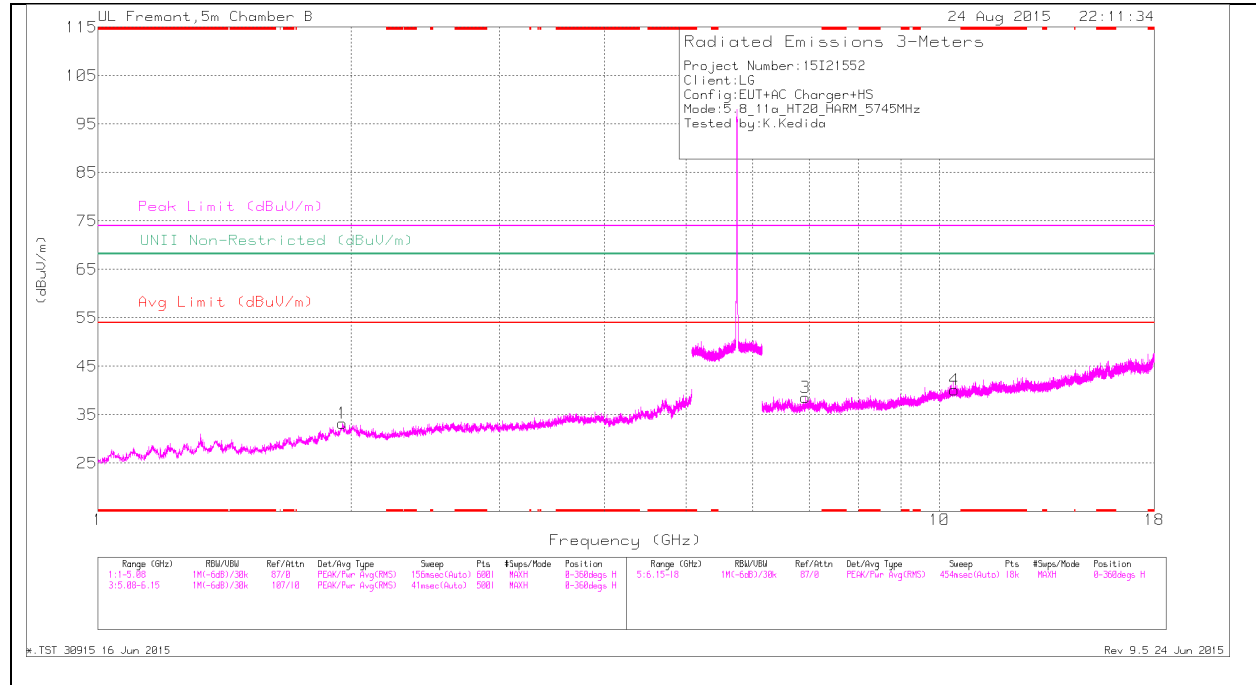
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/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	-68.13	PK	34.9	-20.6	11.8	0	-42.03	-17	-25.03	276	136	V
2	5.984	-65.47	PK	35.2	-20	11.8	0	-38.47	-27	-11.47	276	136	V

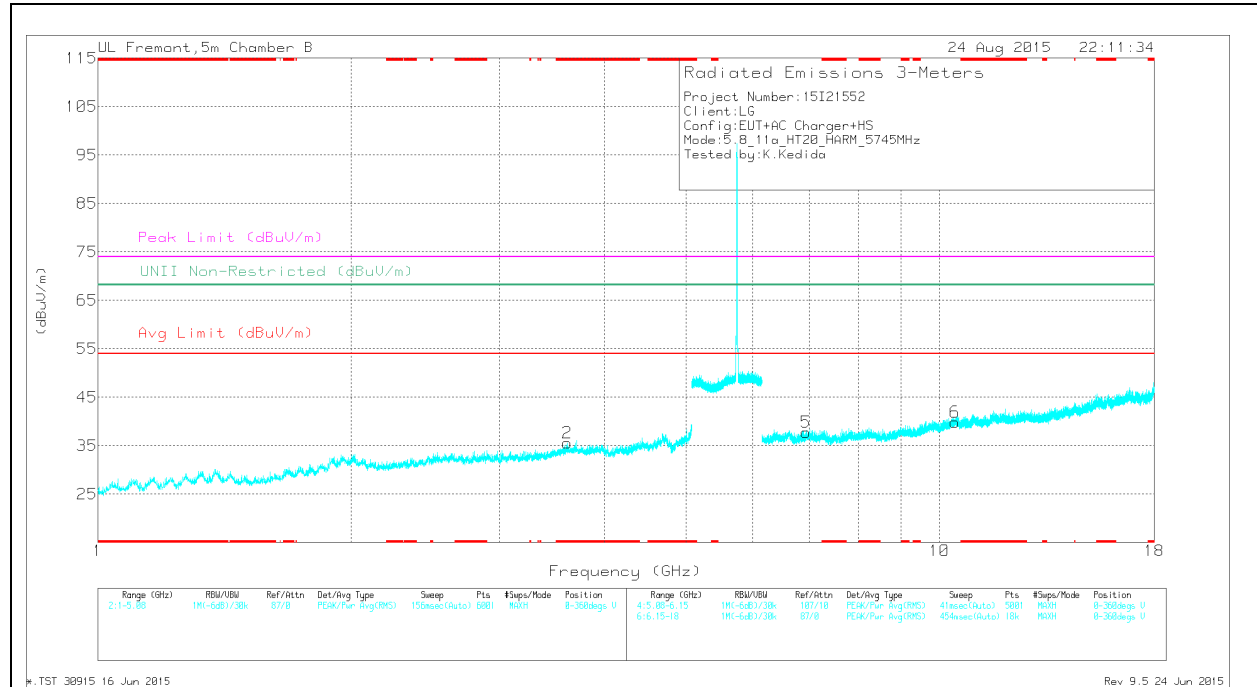
HARMONICS AND SPURIOUS EMISSIONS

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

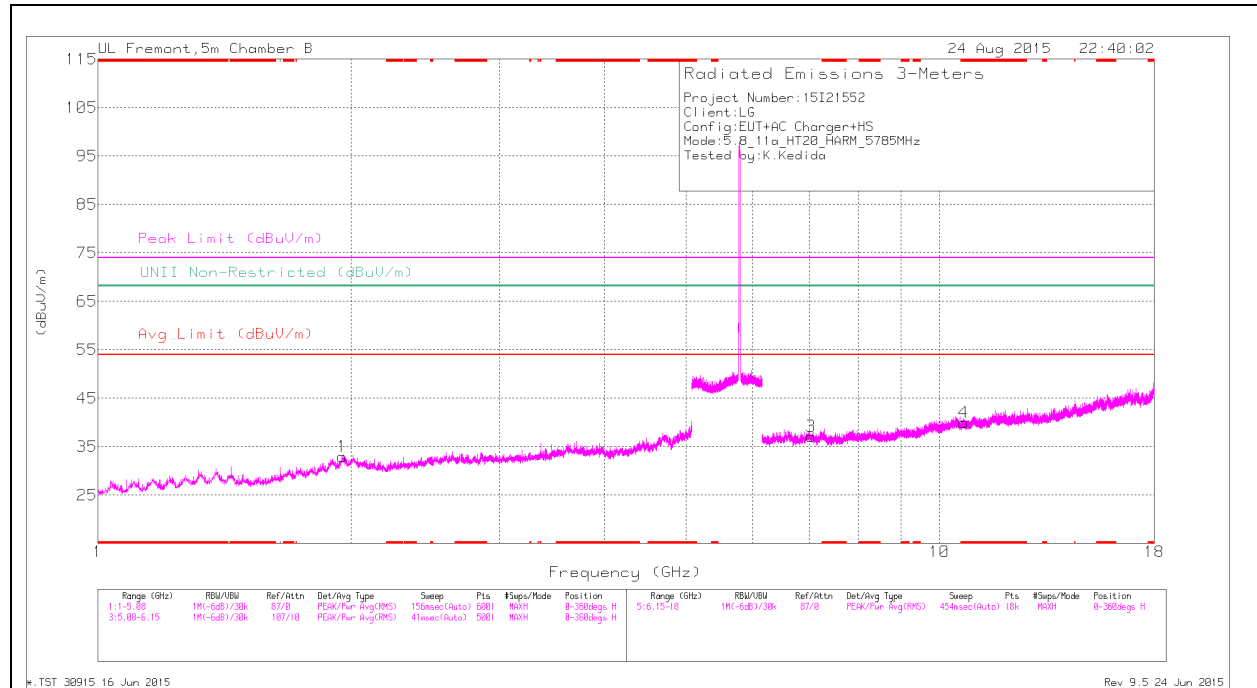
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.612	34.83	Pk	33.8	-33.1	35.53	-	-	74	-38.47	-	-	0-360	101	V
1	1.953	34.9	Pk	32.1	-33.8	33.2	-	-	-	-	68.2	-35	0-360	200	H
3	6.932	33.11	Pk	36.1	-30.7	38.51	-	-	-	-	68.2	-29.69	0-360	200	H
5	6.942	32.2	Pk	36.1	-30.5	37.8	-	-	-	-	68.2	-30.4	0-360	101	V
4	10.416	27.96	Pk	37.4	-25.3	40.06	-	-	-	-	68.2	-28.14	0-360	200	H
6	10.435	27.82	Pk	37.4	-25.4	39.82	-	-	-	-	68.2	-28.38	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

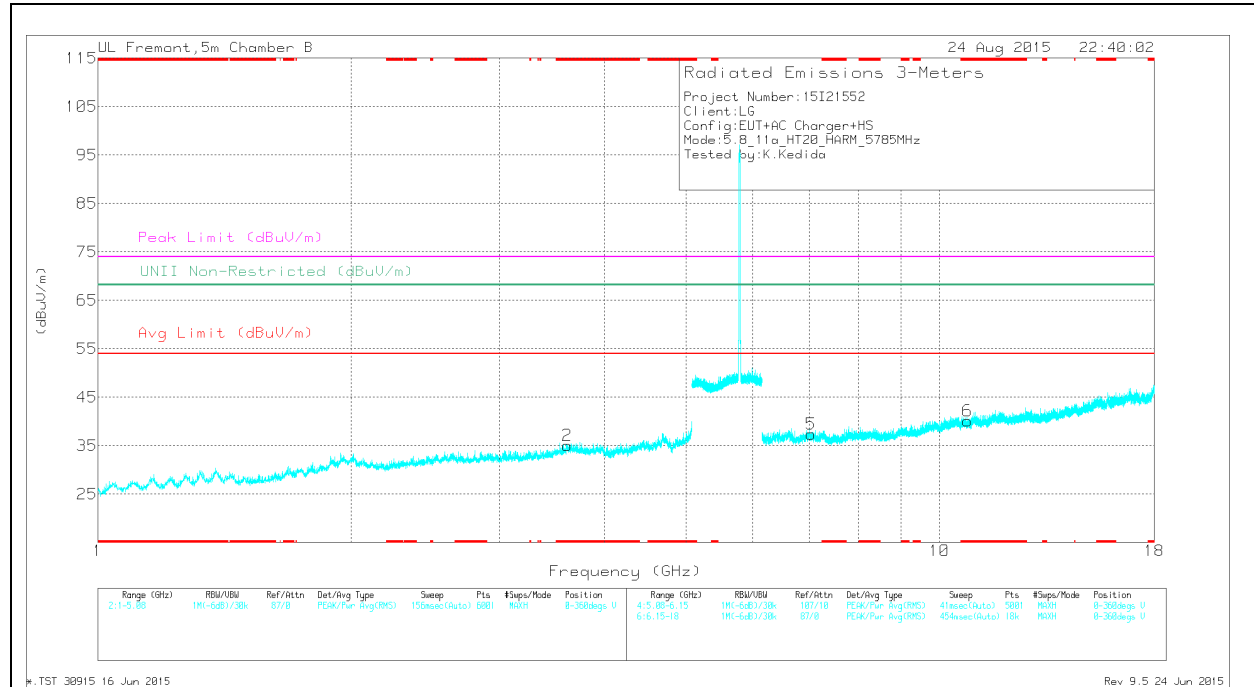
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.613	41.98	PK-U	33.8	-33.1	42.68	-	-	74	-31.32	-	-	1	102	V
* 3.614	30.67	ADR	33.8	-33.1	31.37	54	-22.63	-	-	-	-	1	102	V
1.952	43.33	PK-U	32.1	-33.8	41.63	-	-	-	-	68.2	-26.57	1	200	H
6.932	40.48	PK-U	36.1	-30.7	45.88	-	-	-	-	68.2	-22.32	1	200	H
6.941	40.36	PK-U	36.1	-30.6	45.86	-	-	-	-	68.2	-22.34	1	102	V
10.415	36.68	PK-U	37.4	-25.3	48.78	-	-	-	-	68.2	-19.42	1	200	H
10.434	36.69	PK-U	37.4	-25.4	48.69	-	-	-	-	68.2	-19.51	1	200	V

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

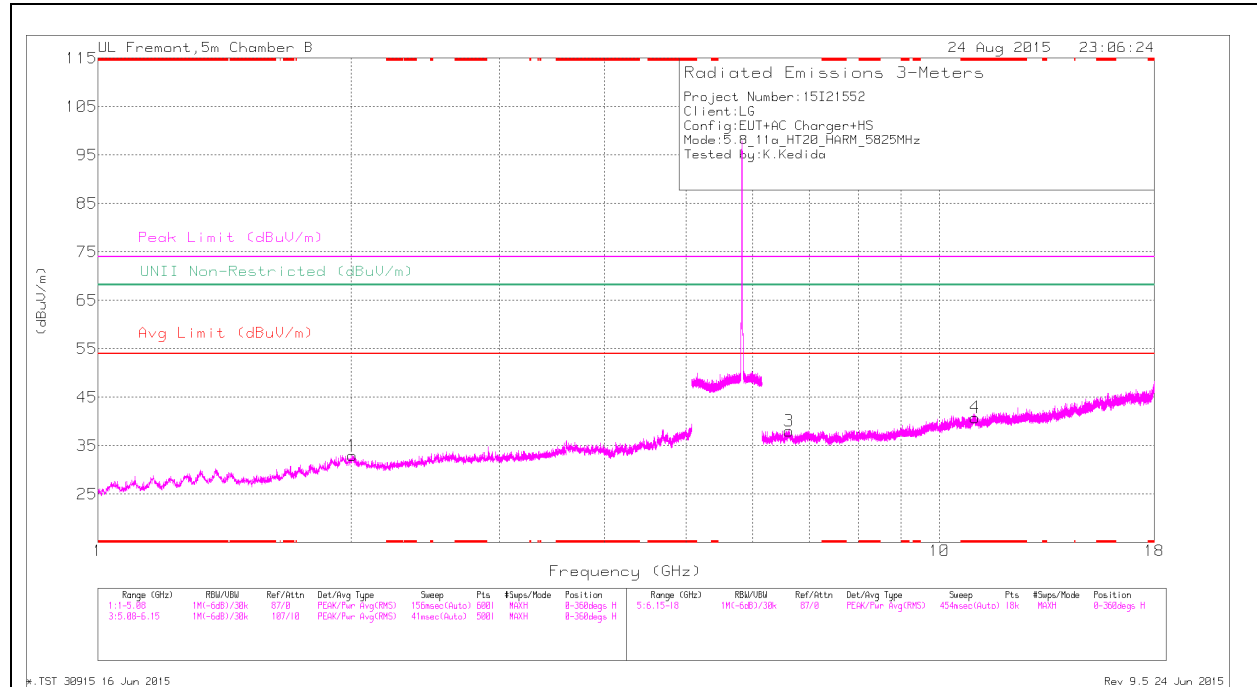
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.611	34.33	Pk	33.8	-33.1	35.03	-	-	74	-38.97	-	-	0-360	199	V
4	* 10.69	27.23	Pk	37.7	-24.9	40.03	-	-	74	-33.97	-	-	0-360	199	H
6	* 10.801	28	Pk	37.7	-25.6	40.1	-	-	74	-33.9	-	-	0-360	101	V
1	1.951	34.72	Pk	32.1	-33.8	33.02	-	-	-	-	68.2	-35.18	0-360	199	H
3	7.036	30.96	Pk	35.9	-29.7	37.16	-	-	-	-	68.2	-31.04	0-360	199	H
5	7.038	31.26	Pk	35.9	-29.8	37.36	-	-	-	-	68.2	-30.84	0-360	101	V

PK - Peak detector

RADIATED EMISSIONS

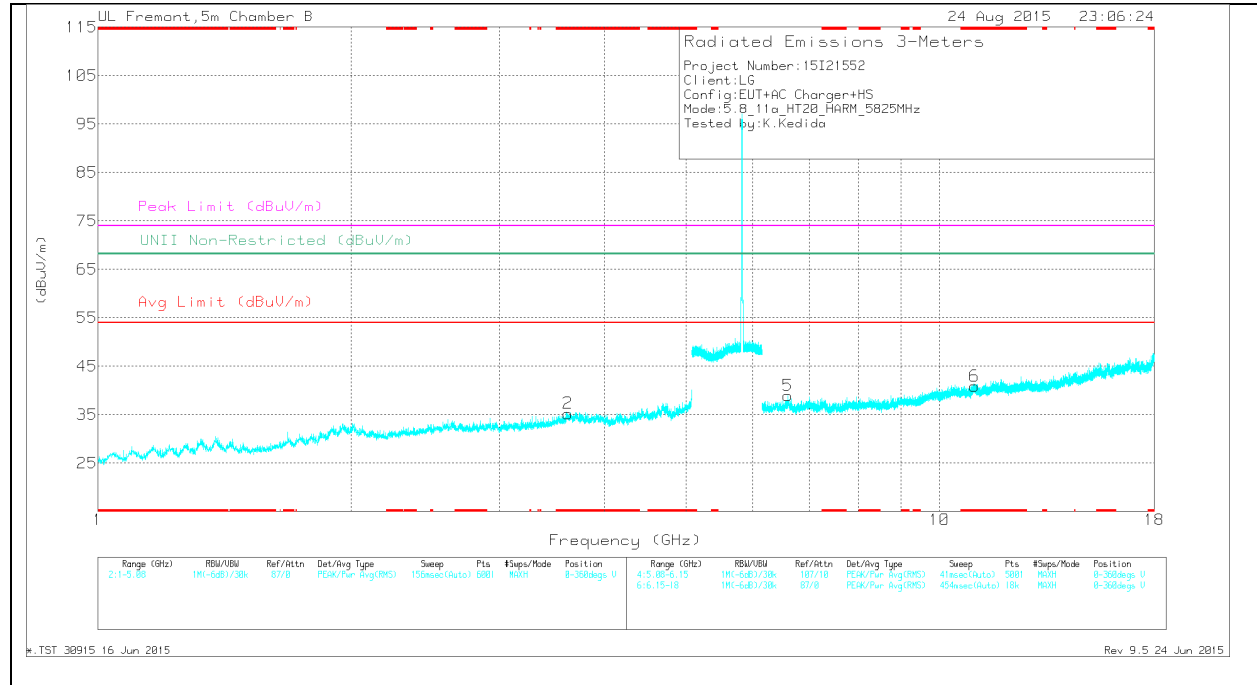
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.61	41.81	PK-U	33.8	-33.1	42.51	-	-	74	-31.49	-	-	1	198	V
* 3.61	30.6	ADR	33.8	-33.1	31.3	54	-22.7	-	-	-	-	1	198	V
* 10.689	36.2	PK-U	37.7	-25	48.9	-	-	74	-25.1	-	-	1	198	H
* 10.69	24.79	ADR	37.7	-24.9	37.59	54	-16.41	-	-	-	-	1	198	H
* 10.802	36.79	PK-U	37.7	-25.6	48.89	-	-	74	-25.11	-	-	1	102	V
* 10.8	25.11	ADR	37.7	-25.6	37.21	54	-16.79	-	-	-	-	1	102	V
1.951	43.31	PK-U	32.1	-33.8	41.61	-	-	-	-	68.2	-26.59	1	198	H
7.035	39.57	PK-U	35.9	-29.7	45.77	-	-	-	-	68.2	-22.43	1	198	H
7.04	39.84	PK-U	35.9	-29.8	45.94	-	-	-	-	68.2	-22.26	1	102	V

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 T345 (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
2	* 3.619	34.65	Pk	33.8	-33.2	35.25	-	-	74	-38.75	-	-	0-360	199	V
4	* 11.022	27.93	Pk	37.7	-24.8	40.83	-	-	74	-33.17	-	-	0-360	101	H
6	* 11.002	27.84	Pk	37.7	-24.6	40.94	-	-	74	-33.06	-	-	0-360	199	V
1	2.006	34.76	Pk	32.3	-34.1	32.96	-	-	-	-	68.2	-35.24	0-360	102	H
5	6.606	33.04	Pk	36	-30.1	38.94	-	-	-	-	68.2	-29.26	0-360	101	V
3	6.628	31.71	Pk	35.9	-29.6	38.01	-	-	-	-	68.2	-30.19	0-360	101	H

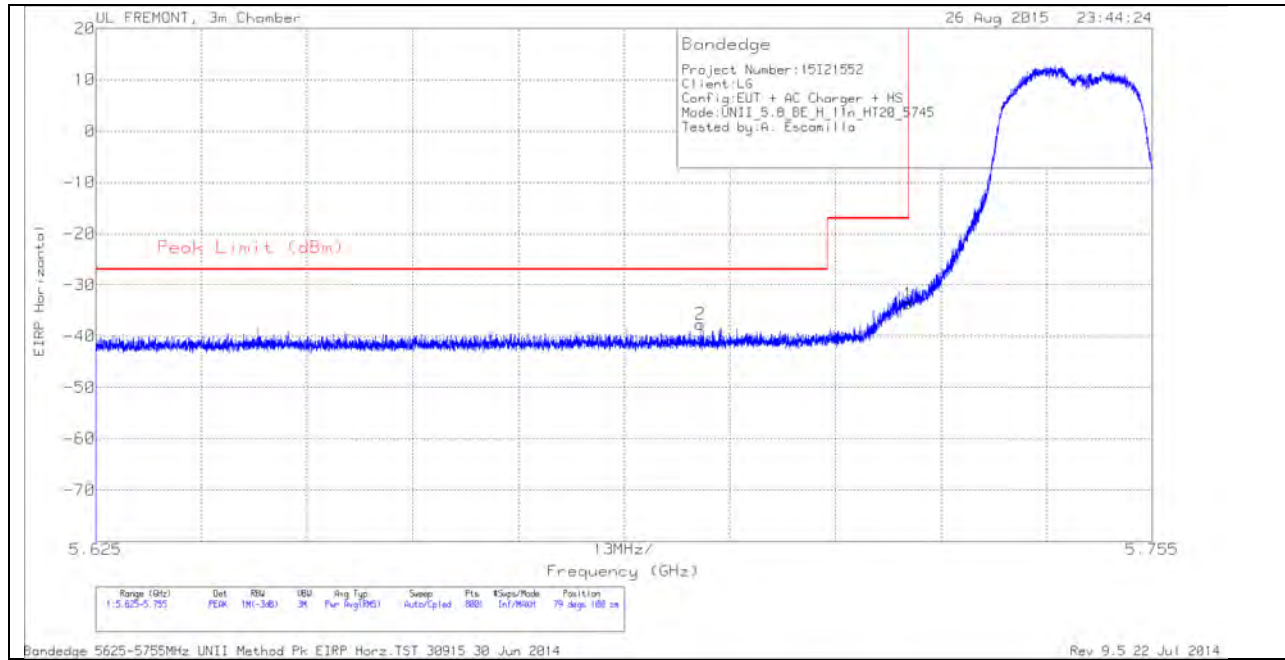
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 3.618	42.4	PK-U	33.8	-33.2	43	-	-	74	-31	-	-	1	198	V
* 3.621	30.66	ADR	33.8	-33.2	31.26	54	-22.74	-	-	-	-	1	198	V
* 11.021	35.48	PK-U	37.7	-24.8	48.38	-	-	74	-25.62	-	-	1	102	H
* 11.021	24.84	ADR	37.7	-24.8	37.74	54	-16.26	-	-	-	-	1	102	H
* 11.002	35.63	PK-U	37.7	-24.6	48.73	-	-	74	-25.27	-	-	1	199	V
* 11.002	24.9	ADR	37.7	-24.6	38	54	-16	-	-	-	-	1	199	V
2.005	42.91	PK-U	32.3	-34.1	41.11	-	-	-	-	68.2	-27.09	1	101	H
6.607	40.11	PK-U	36	-30.1	46.01	-	-	-	-	68.2	-22.19	1	102	V
6.63	39.62	PK-U	35.9	-29.6	45.92	-	-	-	-	68.2	-22.28	1	102	H

10.3.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

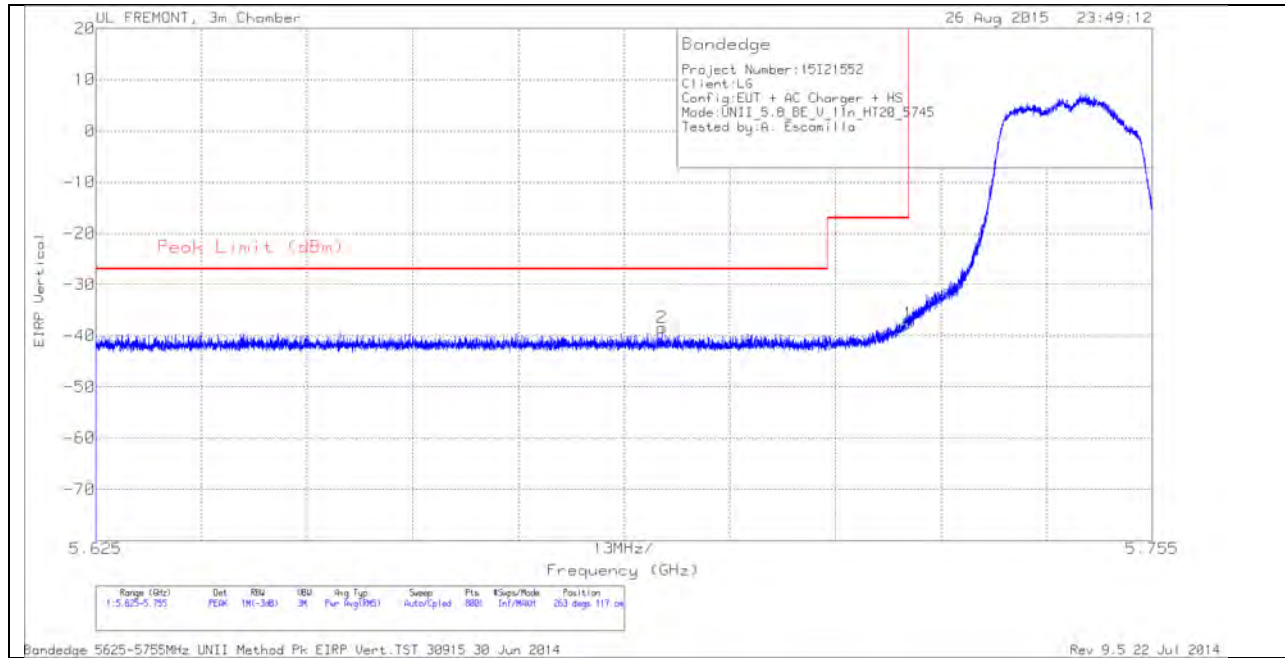


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.699	-63.83	PK	34.7	-20.3	11.8	0	-37.63	-27	-10.63	79	100	H
1	5.725	-59.94	PK	34.8	-20.3	11.8	0	-33.64	-17	-16.64	79	100	H

VERTICAL PEAK AND AVERAGE PLOT



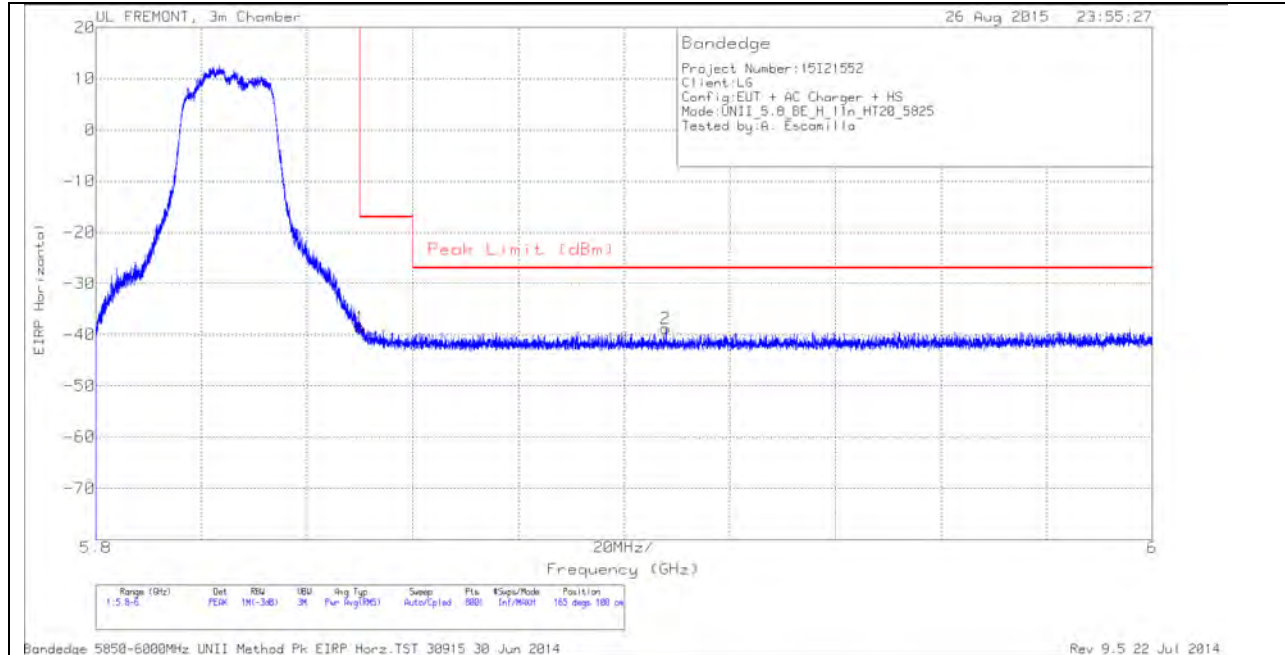
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.695	-64.68	PK	34.7	-20.3	11.8	0	-38.48	-27	-11.48	263	117	V
1	5.725	-63.88	PK	34.8	-20.3	11.8	0	-37.58	-17	-20.58	263	117	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

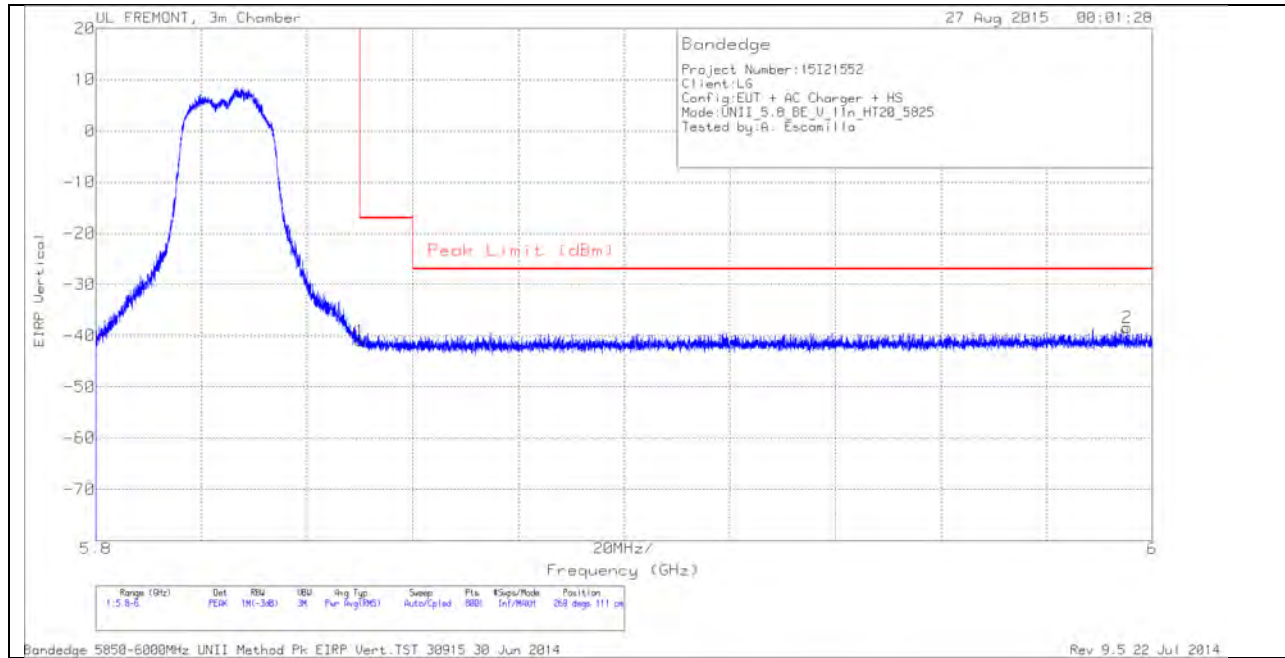


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/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	-64.69	PK	34.9	-20.6	11.8	0	-38.59	-17	-21.59	165	100	H
2	5.908	-65.29	PK	35	-20.3	11.8	0	-38.79	-27	-11.79	165	100	H

VERTICAL PEAK AND AVERAGE PLOT

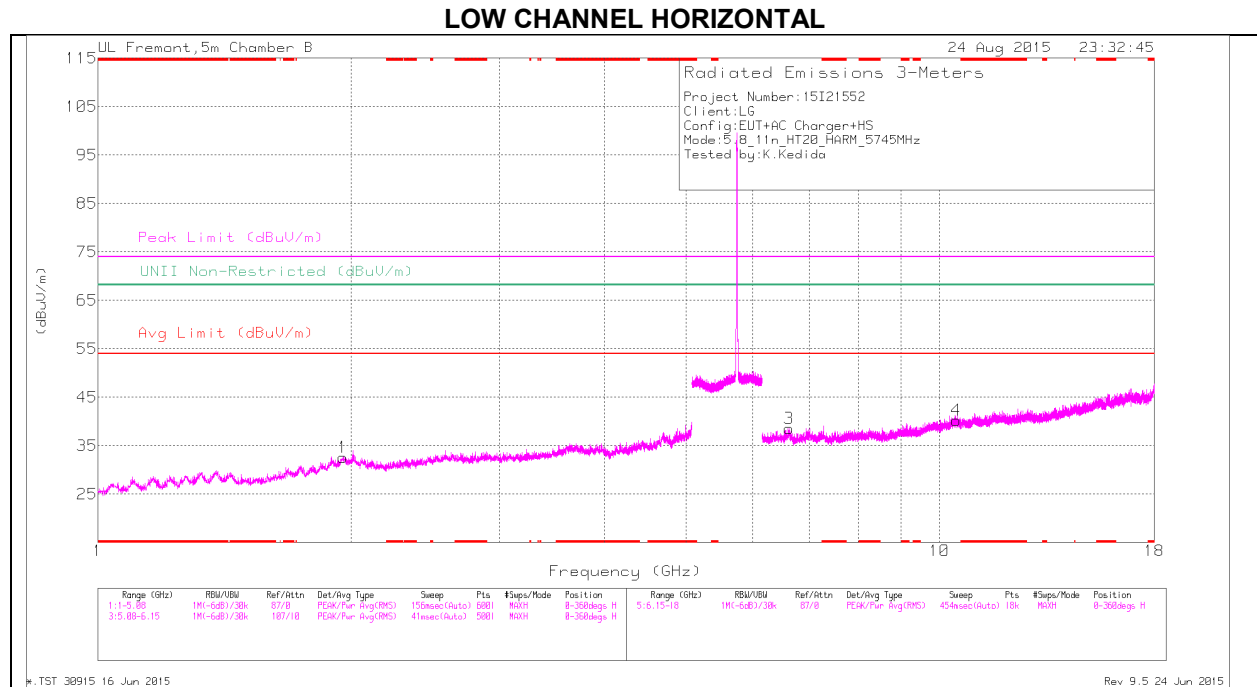


VERTICAL DATA

Trace Markers

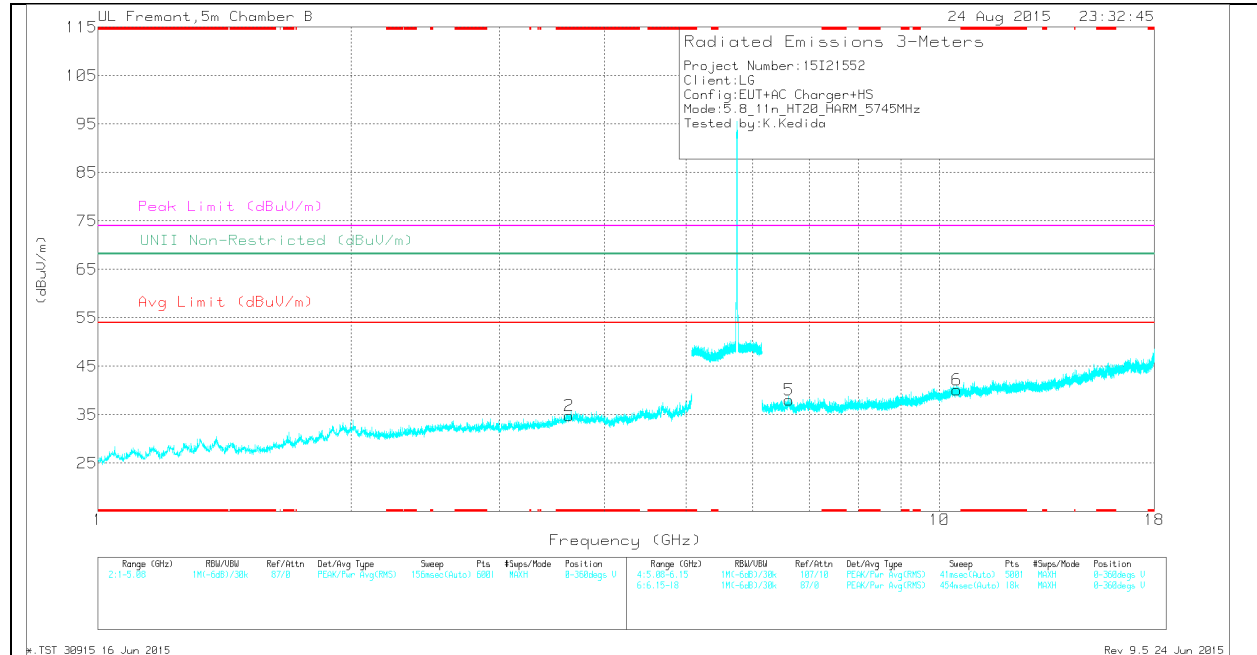
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.14	PK	34.9	-20.6	11.8	0	-41.04	-17	-24.04	269	111	V
2	5.995	-65.28	PK	35.2	-20.1	11.8	0	-38.38	-27	-11.38	269	111	V

HARMONICS AND SPURIOUS EMISSIONS



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

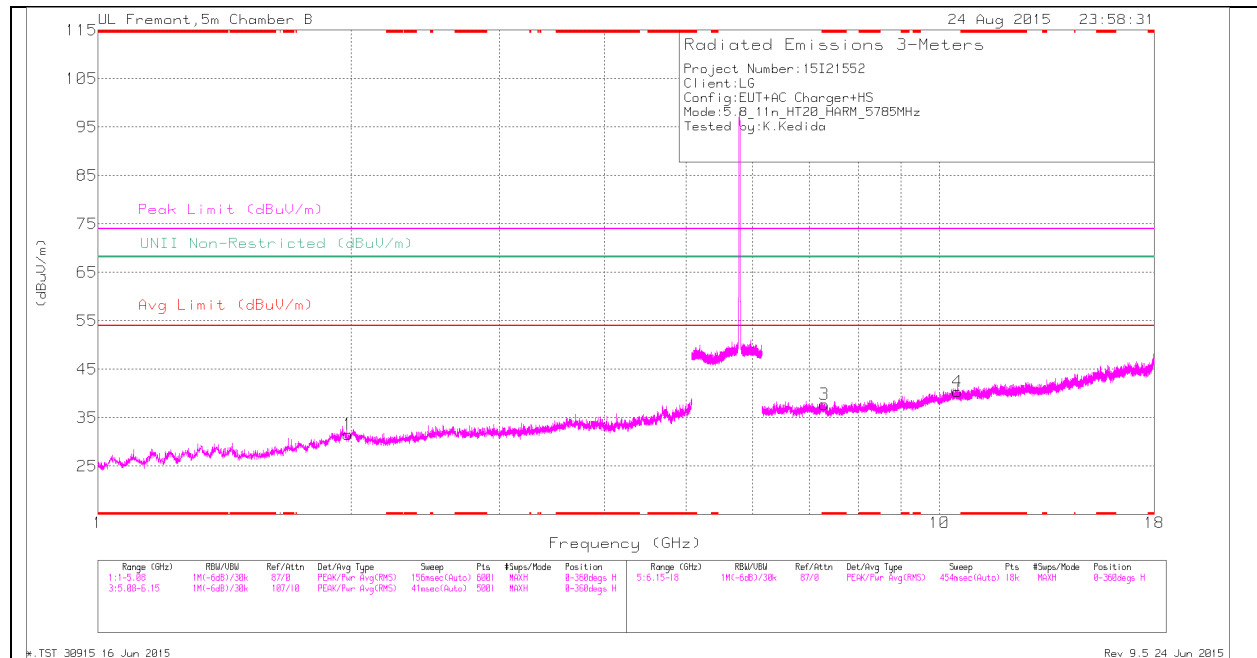
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.63	34.45	Pk	33.8	-33.4	34.85	-	-	74	-39.15	-	-	0-360	101	V
1	1.955	34.16	Pk	32.1	-33.7	32.56	-	-	-	-	68.2	-35.64	0-360	101	H
3	6.625	32.26	Pk	35.9	-29.6	38.56	-	-	-	-	68.2	-29.64	0-360	199	H
5	6.625	31.69	Pk	35.9	-29.6	37.99	-	-	-	-	68.2	-30.21	0-360	200	V
4	10.468	28.03	Pk	37.4	-25.2	40.23	-	-	-	-	68.2	-27.97	0-360	101	H
6	10.487	28.14	Pk	37.4	-25.4	40.14	-	-	-	-	68.2	-28.06	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

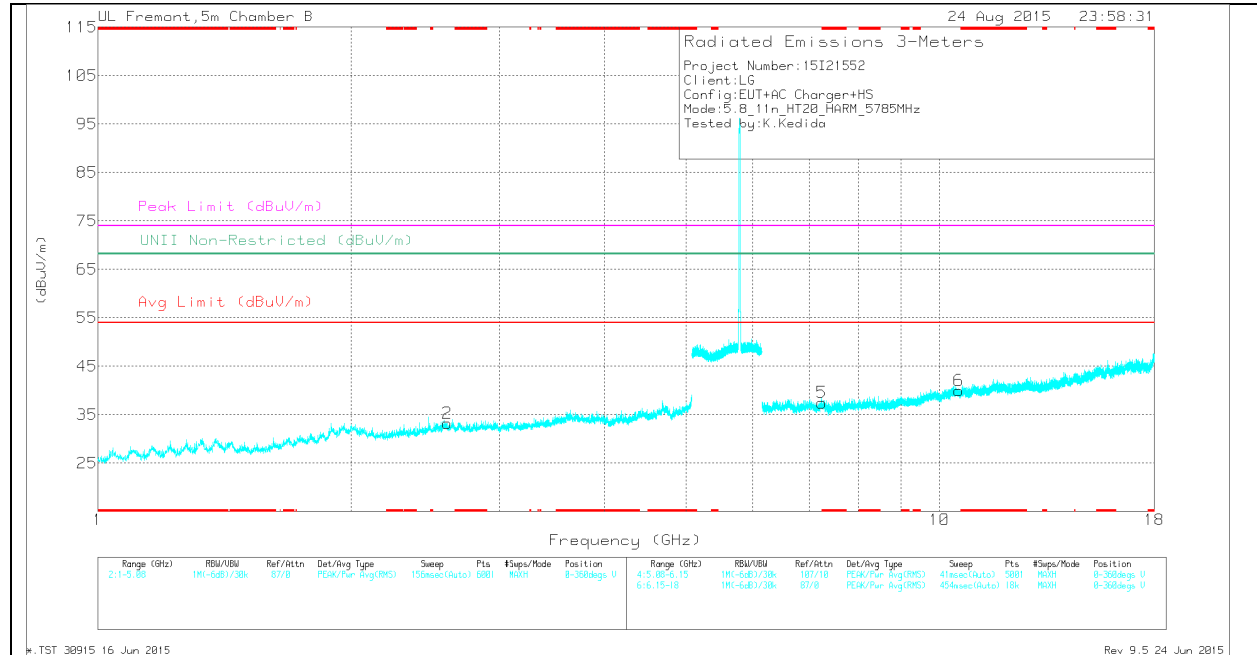
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.628	42.49	PK-U	33.8	-33.3	42.99	-	-	74	-31.01	-	-	1	101	V
* 3.629	30.76	ADR	33.8	-33.3	31.26	54	-22.74	-	-	-	-	1	101	V
1.957	43.09	PK-U	32.1	-33.7	41.49	-	-	-	-	68.2	-26.71	1	101	H
6.625	39.88	PK-U	35.9	-29.6	46.18	-	-	-	-	68.2	-22.02	1	199	H
6.626	39.96	PK-U	35.9	-29.6	46.26	-	-	-	-	68.2	-21.94	1	199	V
10.47	36.16	PK-U	37.4	-25.2	48.36	-	-	-	-	68.2	-19.84	1	102	H
10.487	36.5	PK-U	37.4	-25.4	48.5	-	-	-	-	68.2	-19.7	1	199	V

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

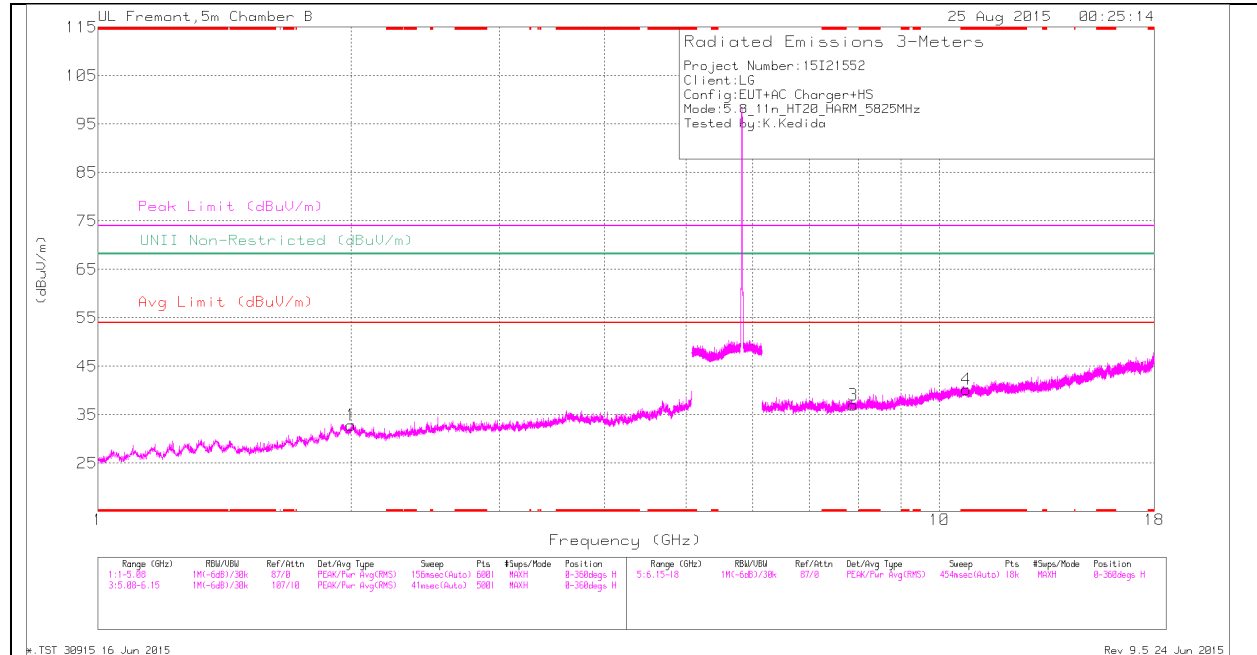
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.294	31.07	Pk	35.3	-28.6	37.77	-	-	74	-36.23	-	-	0-360	101	H
1	1.983	32.96	Pk	32.3	-33.7	31.56	-	-	-	-	68.2	-36.64	0-360	101	H
2	2.599	33.97	Pk	32.8	-33.5	33.27	-	-	-	-	68.2	-34.93	0-360	199	V
5	7.244	30.46	Pk	35.3	-28.3	37.46	-	-	-	-	68.2	-30.74	0-360	200	V
4	10.505	28.37	Pk	37.5	-25.5	40.37	-	-	-	-	68.2	-27.83	0-360	200	H
6	10.54	28.22	Pk	37.5	-25.7	40.02	-	-	-	-	68.2	-28.18	0-360	101	V

PK - Peak detector

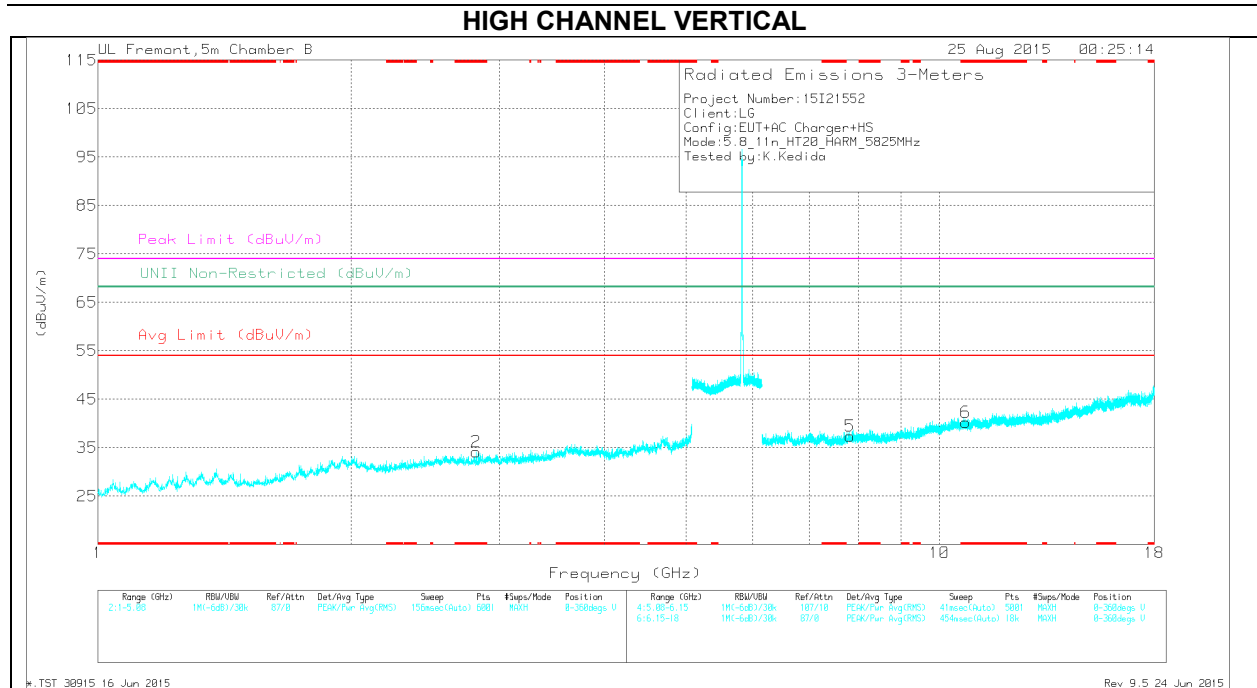
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 7.295	40.49	PK-U	35.3	-28.6	47.19	-	-	74	-26.81	-	-	1	102	H
* 7.296	28.28	ADR	35.3	-28.6	34.98	54	-19.02	-	-	-	-	1	102	H
1.985	41.71	PK-U	32.3	-33.7	40.31	-	-	-	-	68.2	-27.89	1	101	H
2.598	42.48	PK-U	32.8	-33.5	41.78	-	-	-	-	68.2	-26.42	1	199	V
7.245	39.37	PK-U	35.3	-28.2	46.47	-	-	-	-	68.2	-21.73	1	200	V
10.505	36.45	PK-U	37.5	-25.5	48.45	-	-	-	-	68.2	-19.75	1	200	H
10.539	36.36	PK-U	37.5	-25.6	48.26	-	-	-	-	68.2	-19.94	1	102	V

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.



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 T345 (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
2	* 2.817	35.49	Pk	32.6	-33.9	34.19	-	-	74	-39.81	-	-	0-360	101	V
4	* 10.762	27.94	Pk	37.7	-25.4	40.24	-	-	74	-33.76	-	-	0-360	101	H
6	* 10.744	28.01	Pk	37.7	-25.5	40.21	-	-	74	-33.79	-	-	0-360	101	V
1	2	34.63	Pk	32.3	-34.1	32.83	-	-	-	-	68.2	-35.37	0-360	200	H
5	7.833	30.57	Pk	35.5	-28.7	37.37	-	-	-	-	68.2	-30.83	0-360	101	V
3	7.896	30.63	Pk	35.6	-29.2	37.03	-	-	-	-	68.2	-31.17	0-360	199	H

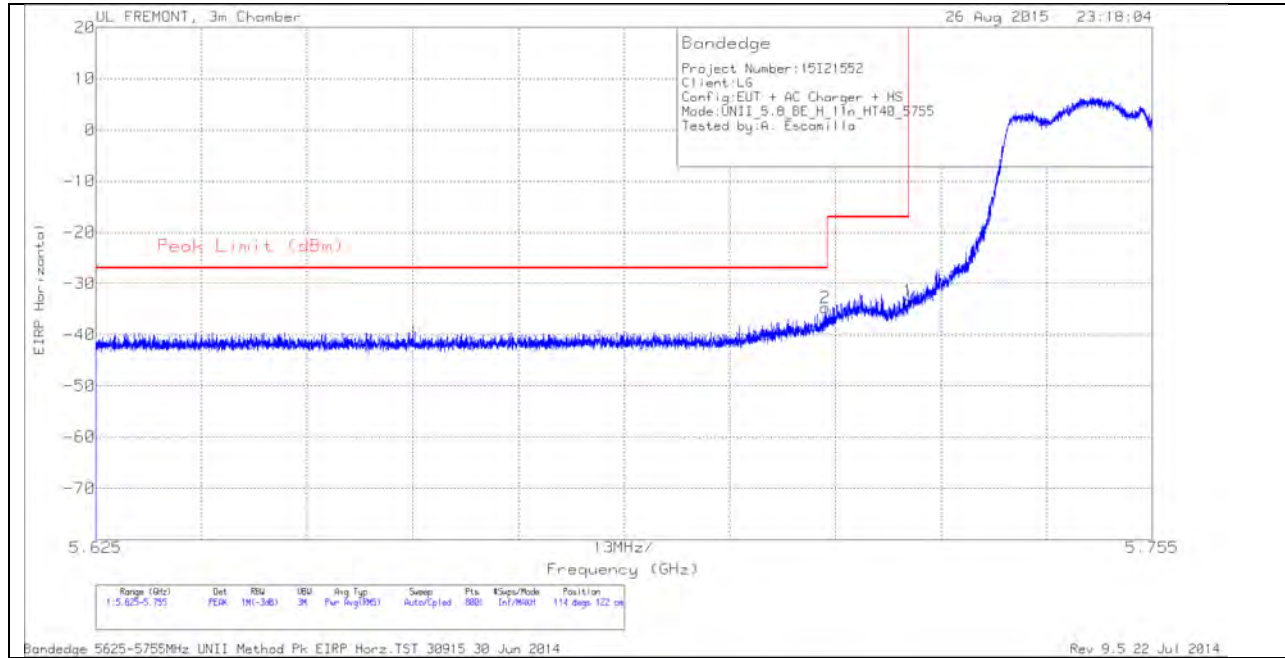
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 2.817	42.13	PK-U	32.6	-33.9	40.83	-	-	74	-33.17	-	-	1	101	V
* 2.819	30.79	ADR	32.6	-33.9	29.49	54	-24.51	-	-	-	-	1	101	V
* 10.76	35.68	PK-U	37.7	-25.4	47.98	-	-	74	-26.02	-	-	1	102	H
* 10.763	24.8	ADR	37.7	-25.5	37	54	-17	-	-	-	-	1	102	H
* 10.745	35.61	PK-U	37.7	-25.5	47.81	-	-	74	-26.19	-	-	1	102	V
* 10.744	24.92	ADR	37.7	-25.5	37.12	54	-16.88	-	-	-	-	1	102	V
7.831	38.84	PK-U	35.5	-28.7	45.64	-	-	-	-	68.2	-22.56	1	102	V
7.898	39.46	PK-U	35.6	-29.3	45.76	-	-	-	-	68.2	-22.44	1	198	H

10.3.3. **TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND
RESTRICTED BANDEDGE (LOW CHANNEL)**

HORIZONTAL PEAK AND AVERAGE PLOT

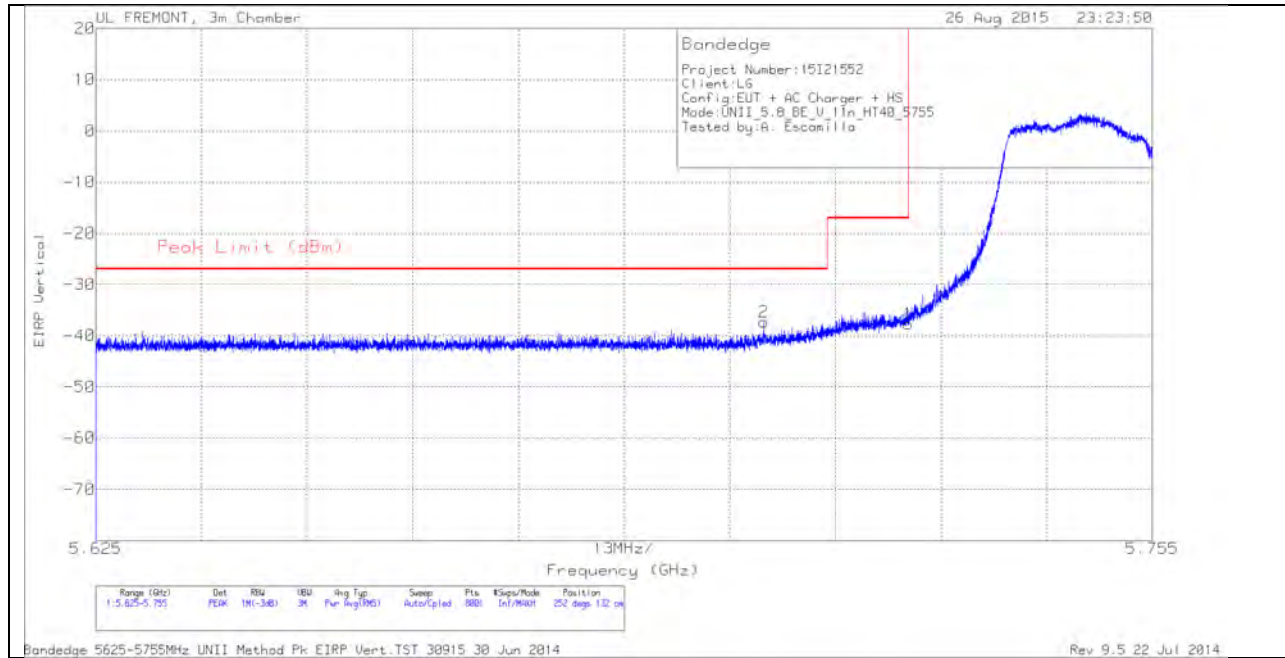


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-61.06	PK	34.8	-20.3	11.8	0	-34.76	-27	-7.76	114	122	H
1	5.725	-59.75	PK	34.8	-20.3	11.8	0	-33.45	-17	-16.45	114	122	H

VERTICAL PEAK AND AVERAGE PLOT



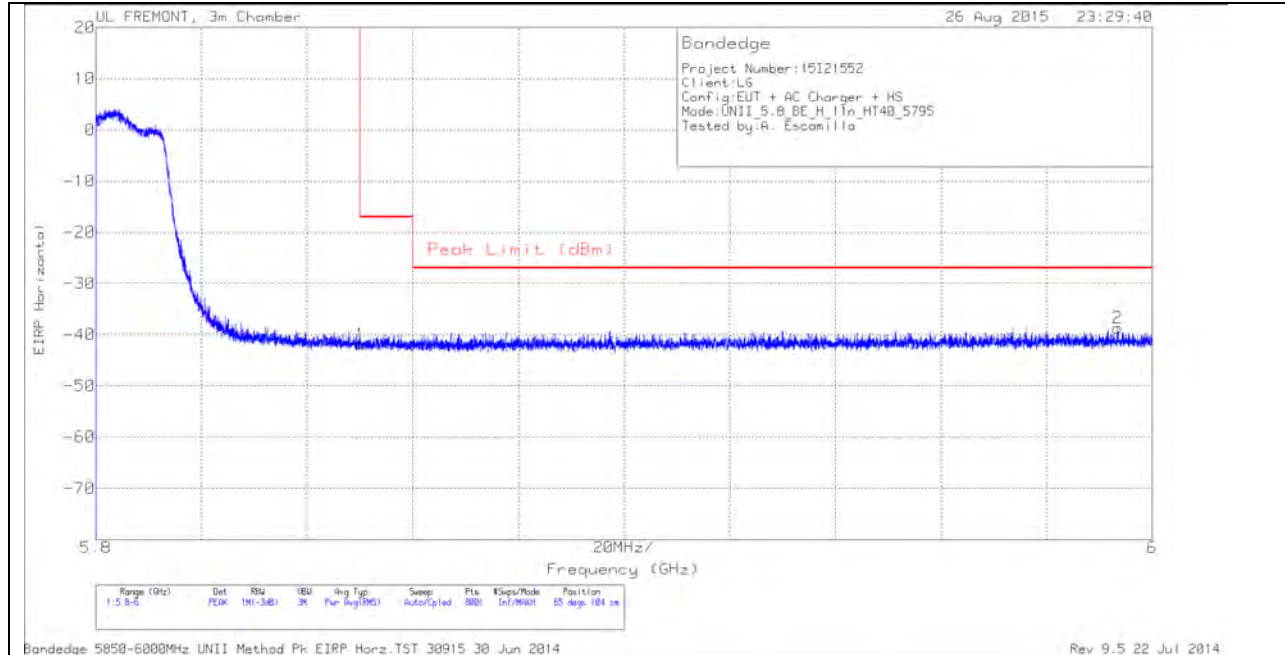
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.707	-63.53	PK	34.7	-20.3	11.8	0	-37.33	-27	-10.33	252	132	V
1	5.725	-63.95	PK	34.8	-20.3	11.8	0	-37.65	-17	-20.65	252	132	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

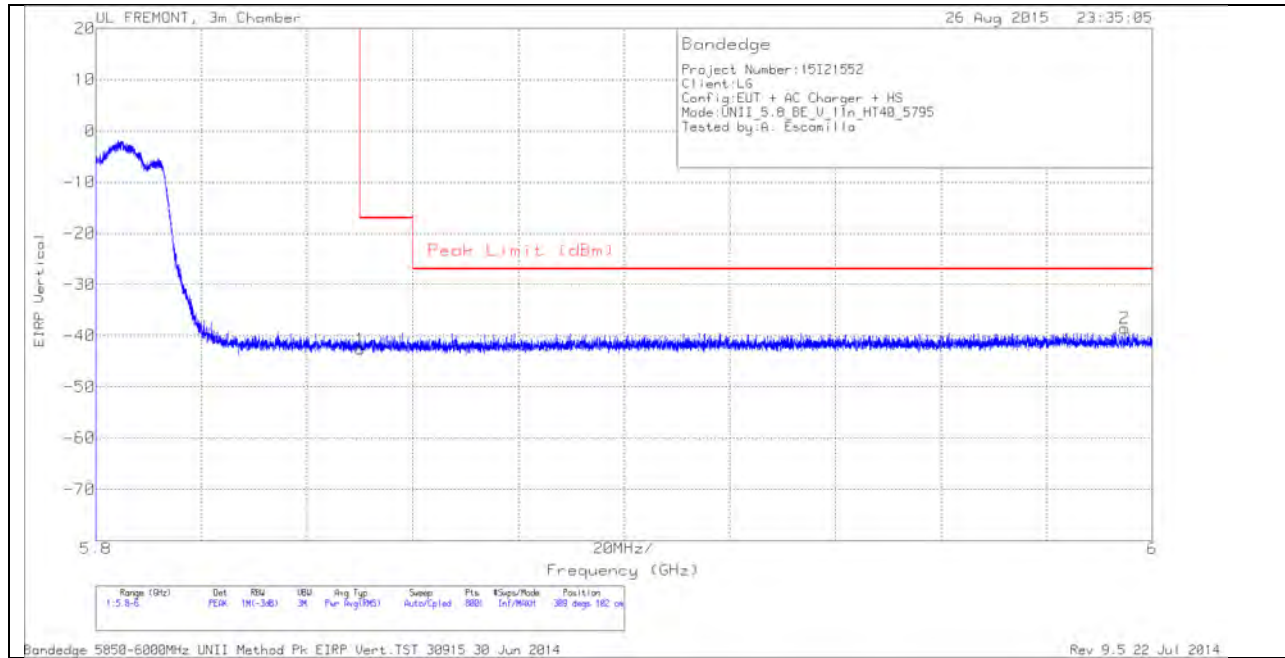


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/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	-67.92	PK	34.9	-20.6	11.8	0	-41.82	-17	-24.82	65	104	H
2	5.993	-65.56	PK	35.2	-20.1	11.8	0	-38.66	-27	-11.66	65	104	H

VERTICAL PEAK AND AVERAGE PLOT

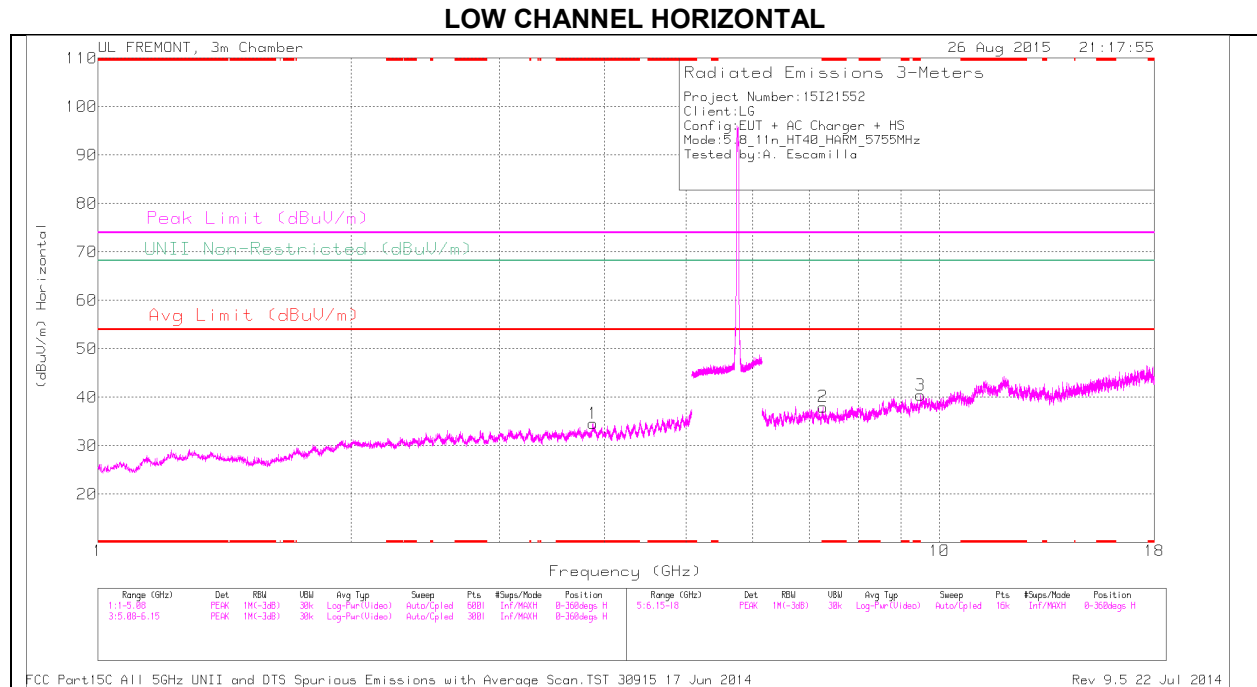


VERTICAL DATA

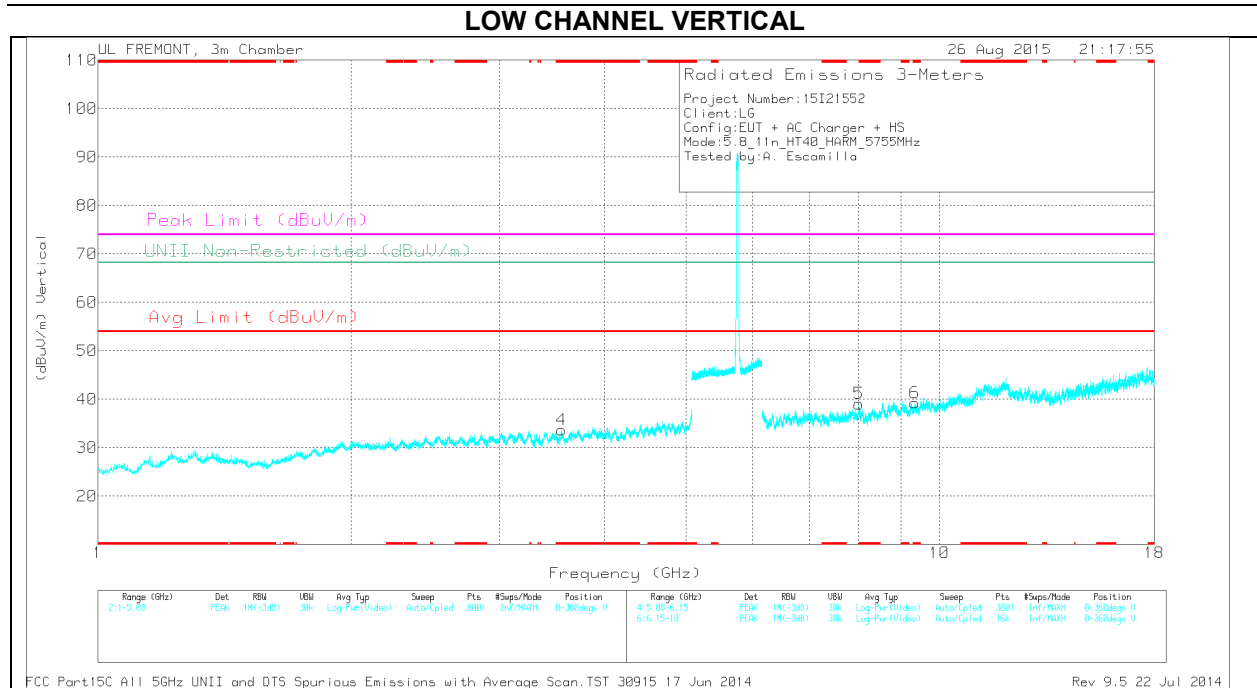
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/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	-68.67	PK	34.9	-20.6	11.8	0	-42.57	-17	-25.57	309	102	V
2	5.995	-65.48	PK	35.2	-20.1	11.8	0	-38.58	-27	-11.58	309	102	V

HARMONICS AND SPURIOUS EMISSIONS



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



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

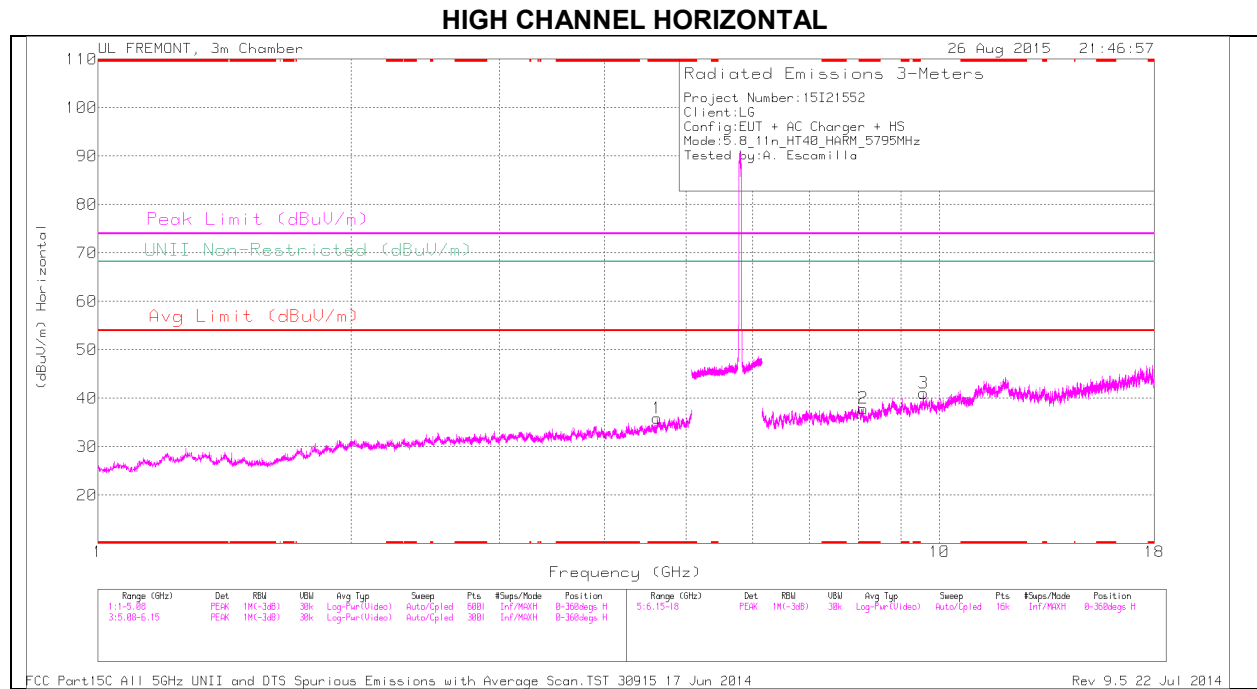
TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	* 3.876	31.57	PK	33.2	-30.2	0	34.57	-	-	74	-39.43	-	-	0-360	200	H
4	* 3.556	32.14	PK	32.8	-31.2	0	33.74	-	-	74	-40.26	-	-	0-360	100	V
2	* 7.271	30.84	PK	35.6	-28.4	0	38.04	-	-	74	-35.96	-	-	0-360	200	H
3	* 9.496	28.1	PK	36.5	-24.2	0	40.4	-	-	74	-33.6	-	-	0-360	200	H
6	* 9.353	27.1	PK	36.4	-24.2	0	39.3	-	-	74	-34.7	-	-	0-360	100	V
5	8.015	30.18	PK	35.8	-26.9	0	39.08	-	-	-	-	68.2	-29.12	0-360	200	V

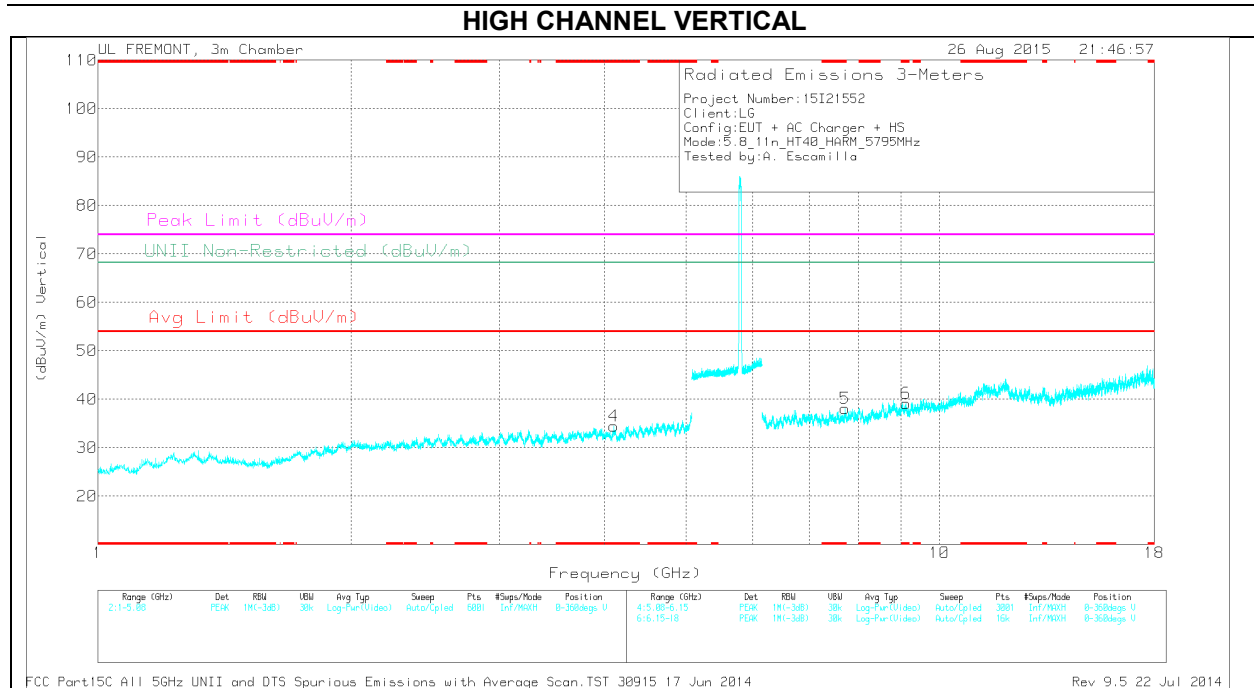
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 3.876	41.48	PK1	33.2	-30.2	0	44.48	-	-	74	-29.52	-	-	14	206	H
* 3.876	28.98	AD1	33.2	-30.1	0	32.08	54	-21.92	-	-	-	-	14	206	H
* 3.554	41.14	PK1	32.8	-31.1	0	42.84	-	-	74	-31.16	-	-	52	187	V
* 3.555	29	AD1	32.8	-31.2	0	30.6	54	-23.4	-	-	-	-	52	187	V
* 7.271	39.52	PK1	35.6	-28.4	0	46.72	-	-	74	-27.28	-	-	37	200	H
* 7.272	27.4	AD1	35.6	-28.5	0	34.5	54	-19.5	-	-	-	-	37	200	H
* 9.494	36.01	PK1	36.5	-24.3	0	48.21	-	-	74	-25.79	-	-	178	219	H
* 9.498	24.75	AD1	36.5	-24.2	0	37.05	54	-16.95	-	-	-	-	178	219	H
* 9.353	36.07	PK1	36.4	-24.2	0	48.27	-	-	74	-25.73	-	-	189	109	V
* 9.354	24.88	AD1	36.4	-24.2	0	37.08	54	-16.92	-	-	-	-	189	109	V
8.015	38.32	PK1	35.8	-26.9	0	47.22	-	-	-	-	68.2	-20.98	178	173	V



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



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 T119 (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	* 4.616	31.6	PK	33.9	-29.6	0	35.9	-	-	74	-38.1	-	-	0-360	100	H
4	* 4.101	31.33	PK	33.3	-30.2	0	34.43	-	-	74	-39.57	-	-	0-360	200	V
2	* 8.114	28.81	PK	35.7	-26.6	0	37.91	-	-	74	-36.09	-	-	0-360	200	H
5	* 7.727	30.19	PK	35.8	-27.9	0	38.09	-	-	74	-35.91	-	-	0-360	100	V
6	* 9.13	28.13	PK	36.1	-25.1	0	39.13	-	-	74	-34.87	-	-	0-360	200	V
3	9.569	27.93	PK	36.7	-23.6	0	41.03	-	-	-	-	68.2	-27.17	0-360	100	H

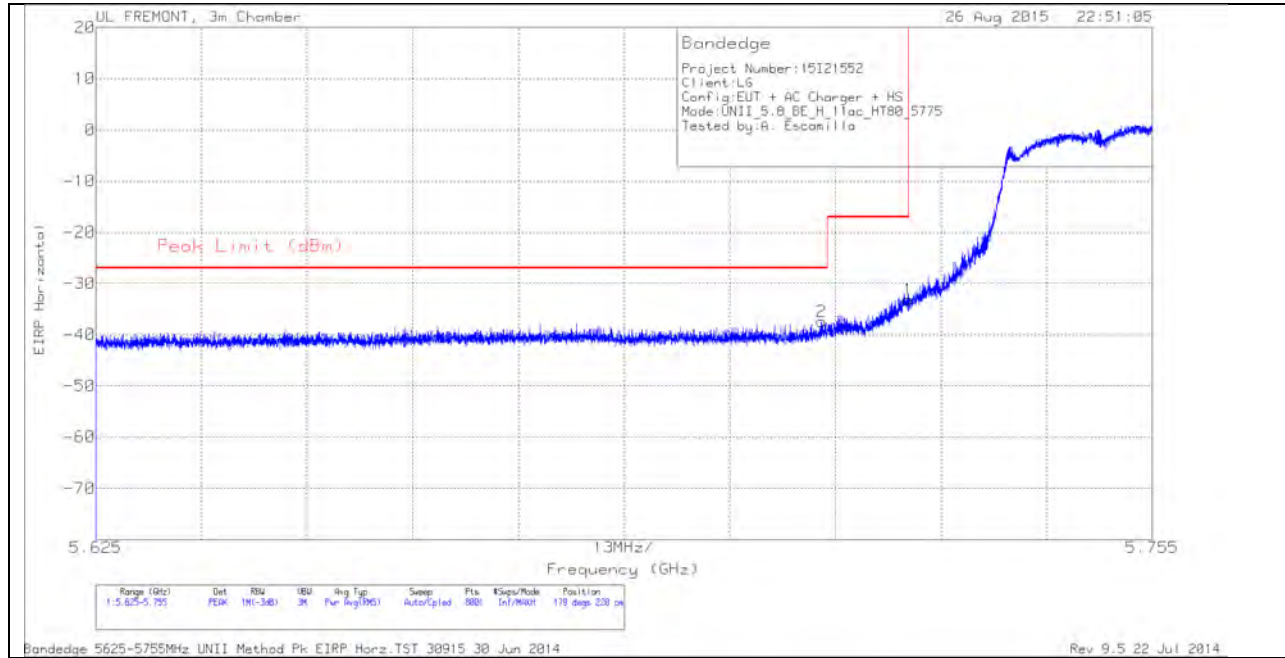
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 4.618	40.78	PK1	33.9	-29.6	0	45.08	-	-	74	-28.92	-	-	357	152	H
* 4.615	28.81	AD1	33.9	-29.6	0	33.11	54	-20.89	-	-	-	-	357	152	H
* 4.1	40.04	PK1	33.3	-30.2	0	43.14	-	-	74	-30.86	-	-	211	192	V
* 4.101	29.01	AD1	33.3	-30.2	0	32.11	54	-21.89	-	-	-	-	211	192	V
* 8.116	36.74	PK1	35.7	-26.6	0	45.84	-	-	74	-28.16	-	-	175	200	H
* 8.116	25.6	AD1	35.7	-26.6	0	34.7	54	-19.3	-	-	-	-	175	200	H
* 7.727	38.91	PK1	35.8	-27.9	0	46.81	-	-	74	-27.19	-	-	74	175	V
* 7.727	28.04	AD1	35.8	-27.9	0	35.94	54	-18.06	-	-	-	-	74	175	V
* 9.129	37.62	PK1	36.1	-25.1	0	48.62	-	-	74	-25.38	-	-	9	154	V
* 9.129	25.91	AD1	36.1	-25.1	0	36.91	54	-17.09	-	-	-	-	9	154	V
9.567	35.85	PK1	36.7	-23.5	0	49.05	-	-	-	-	68.2	-19.15	186	181	H

10.3.4. **TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND
RESTRICTED BANDEDGE (LOWER EDGE)**

HORIZONTAL PEAK AND AVERAGE PLOT

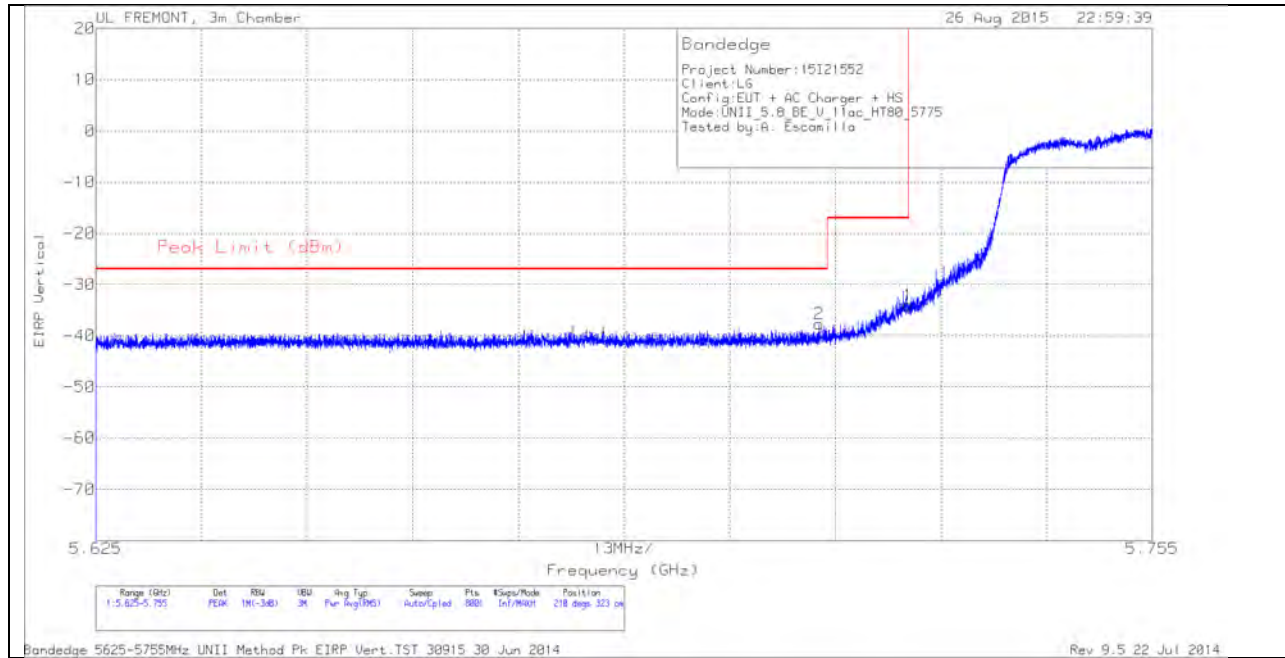


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-63.68	PK	34.8	-20.4	11.8	0	-37.48	-27	-10.48	179	220	H
1	5.725	-59.47	PK	34.8	-20.3	11.8	0	-33.17	-17	-16.17	179	220	H

VERTICAL PEAK AND AVERAGE PLOT



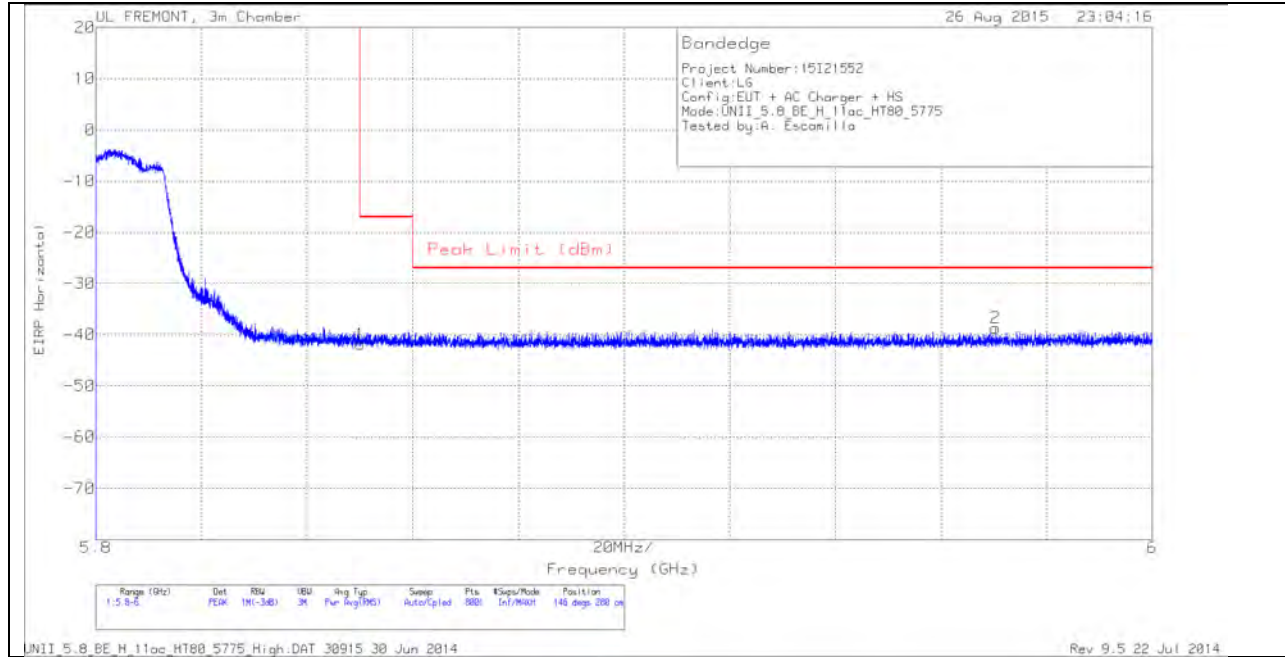
VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-63.86	PK	34.8	-20.4	11.8	0	-37.66	-27	-10.66	210	323	V
1	5.725	-60.25	PK	34.8	-20.3	11.8	0	-33.95	-17	-16.95	210	323	V

AUTHORIZED BANDEGE (HIGHER EDGE)

HORIZONTAL PEAK AND AVERAGE PLOT

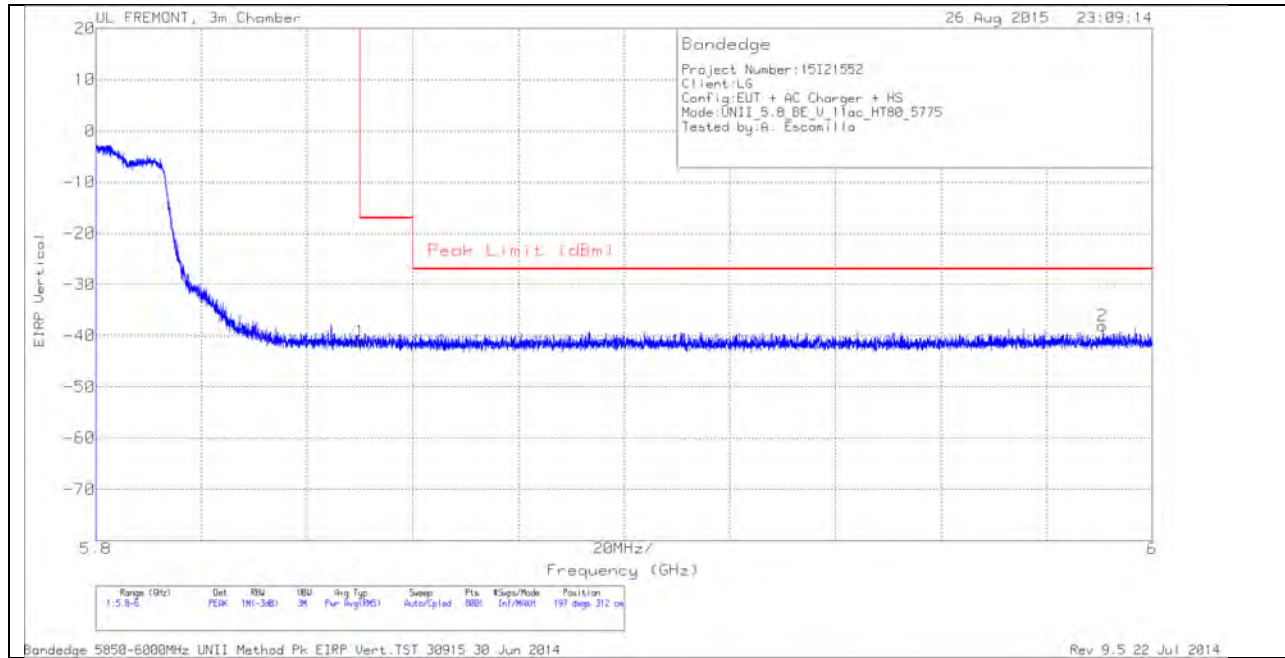


HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl/ Fitr/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	-67.96	PK	34.9	-20.6	11.8	0	-41.86	-17	-24.86	146	280	H
2	5.97	-65.49	PK	35.1	-20.1	11.8	0	-38.69	-27	-11.69	146	280	H

VERTICAL PEAK AND AVERAGE PLOT

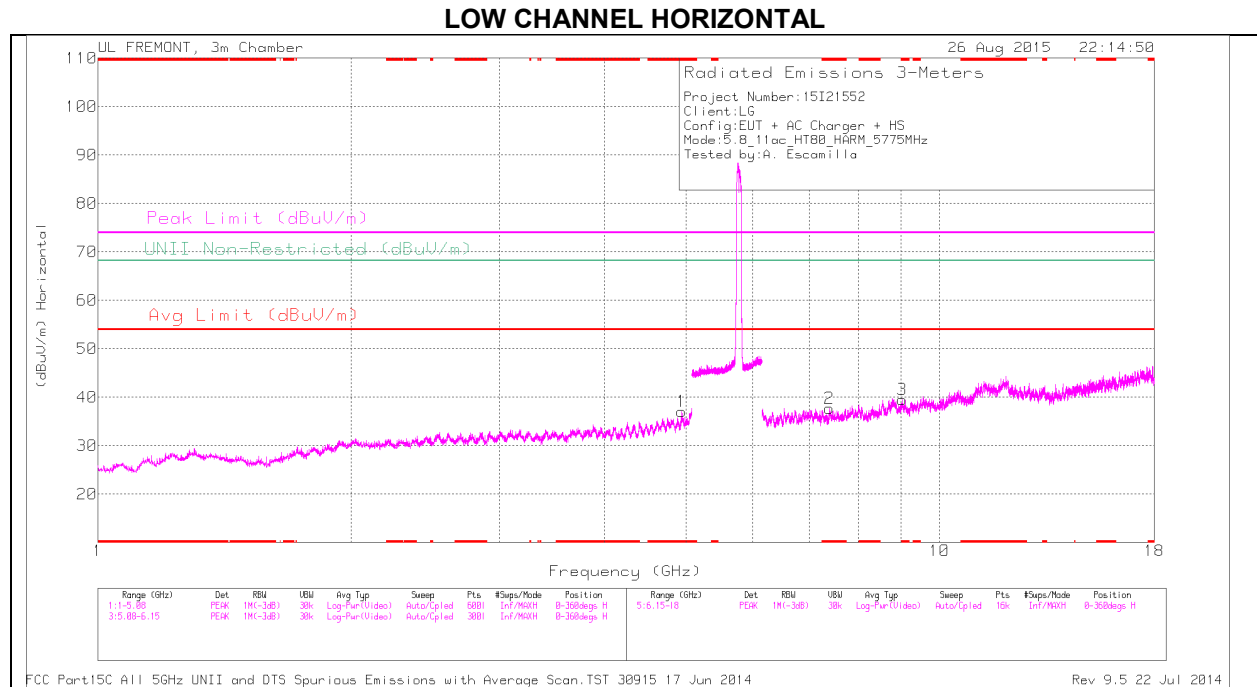


VERTICAL DATA

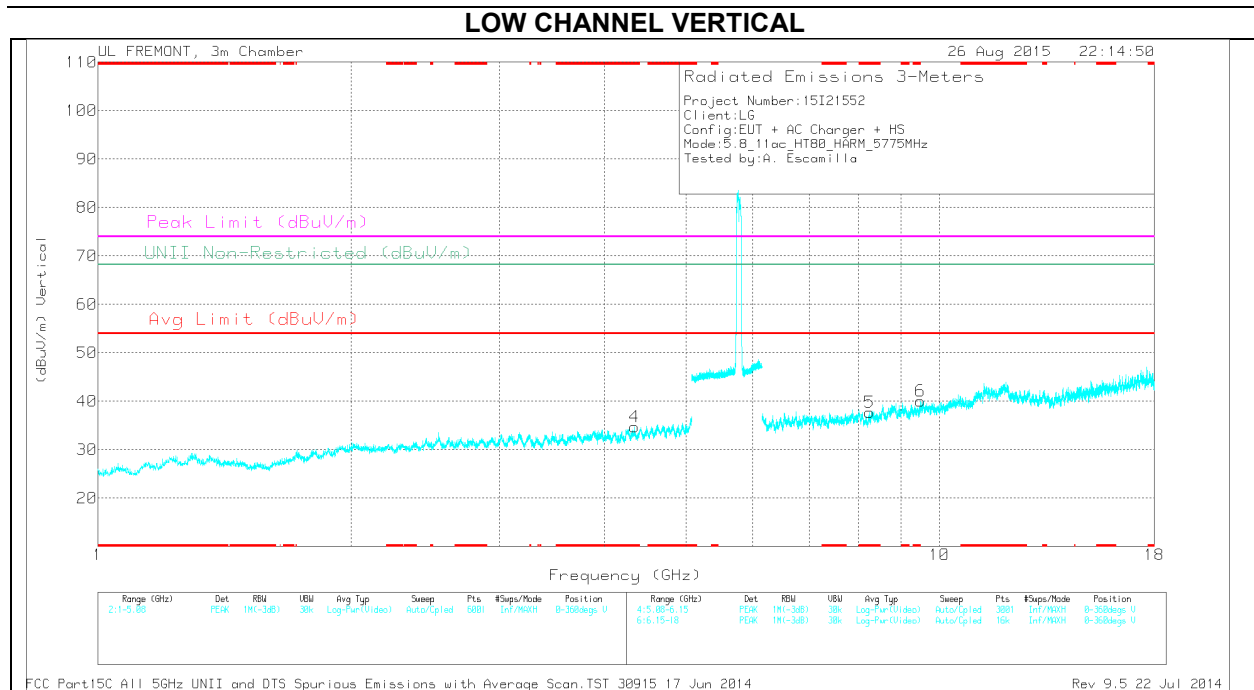
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT119 (dB/m)	Amp/Cbl/ Fitr/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	-67.18	PK	34.9	-20.6	11.8	0	-41.08	-17	-24.08	197	312	V
2	5.991	-64.9	PK	35.2	-20.2	11.8	0	-38.1	-27	-11.1	197	312	V

HARMONICS AND SPURIOUS EMISSIONS



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



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

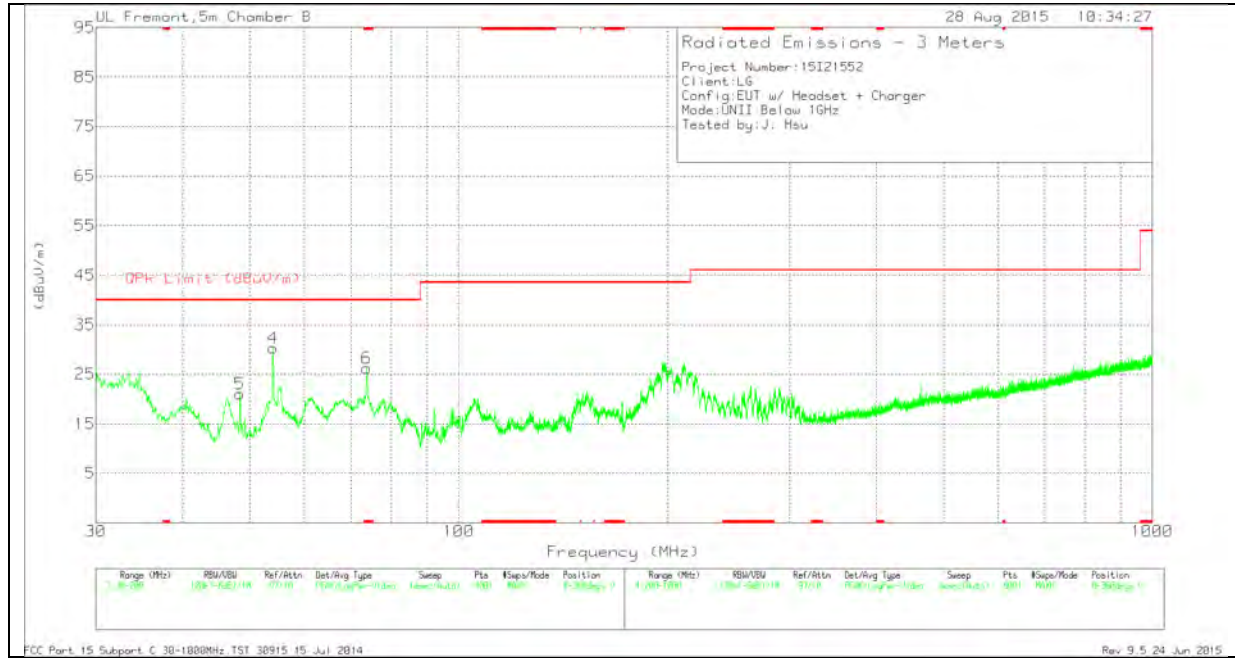
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.939	31.74	PK	34	-28.7	0	37.04	-	-	74	-36.96	-	-	0-360	200	H
4	* 4.341	30.93	PK	33.6	-29.8	0	34.73	-	-	74	-39.27	-	-	0-360	100	V
2	* 7.401	29.67	PK	35.6	-27.6	0	37.67	-	-	74	-36.33	-	-	0-360	100	H
3	* 9.033	27.13	PK	36.1	-23.7	0	39.53	-	-	74	-34.47	-	-	0-360	200	H
5	* 8.253	29.06	PK	35.8	-27.1	0	37.76	-	-	74	-36.24	-	-	0-360	100	V
6	* 9.498	27.68	PK	36.6	-24.2	0	40.08	-	-	74	-33.92	-	-	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
* 4.939	40.61	PK1	34	-28.6	0	46.01	-	-	74	-27.99	-	-	11	151	H
* 4.939	28.7	AD1	34	-28.6	0	34.1	54	-19.9	-	-	-	-	11	151	H
* 4.342	39.92	PK1	33.6	-29.8	0	43.72	-	-	74	-30.28	-	-	49	132	V
* 4.341	28.46	AD1	33.6	-29.8	0	32.26	54	-21.74	-	-	-	-	49	132	V
* 7.402	38.61	PK1	35.6	-27.6	0	46.61	-	-	74	-27.39	-	-	36	181	H
* 7.402	27.02	AD1	35.6	-27.6	0	35.02	54	-18.98	-	-	-	-	36	181	H
* 9.031	36.66	PK1	36.1	-23.8	0	48.96	-	-	74	-25.04	-	-	129	199	H
* 9.032	25.07	AD1	36.1	-23.8	0	37.37	54	-16.63	-	-	-	-	129	199	H
* 8.254	38.1	PK1	35.8	-27.1	0	46.8	-	-	74	-27.2	-	-	187	137	V
* 8.252	26.81	AD1	35.8	-27.1	0	35.51	54	-18.49	-	-	-	-	187	137	V
* 9.497	35.92	PK1	36.5	-24.2	0	48.22	-	-	74	-25.78	-	-	183	155	V
* 9.499	24.49	AD1	36.6	-24.2	0	36.89	54	-17.11	-	-	-	-	183	155	V

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 120.355	36.49	Pk	14.1	-27.8	22.79	43.52	-20.73	0-360	399	H
6	* 73.7325	46.51	Pk	8	-28.3	26.21	40	-13.79	0-360	101	V
5	48.4025	40.89	Pk	8.8	-28.7	20.99	40	-19.01	0-360	101	V
4	54.0125	51.45	Pk	7.4	-28.5	30.35	40	-9.65	0-360	101	V
2	150.5725	41.4	Pk	12.5	-27.6	26.3	43.52	-17.22	0-360	199	H
3	211.4	49.19	Pk	10.5	-26.9	32.79	43.52	-10.73	0-360	101	H

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

Pk - Peak detector

FCC Part 15 Subpart C 30-1000MHz.TST 30915 15 Jul 2014

12. DYNAMIC FREQUENCY SELECTION

12.1. OVERVIEW

12.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 1

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” and KDB 905462 D03 “U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY”.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.		

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see notes)
E.I.R.P. $\geq$ 200 mill watt	-64 dBm
E.I.R.P. $<$ 200 mill watt and power spectral density $<$ 10 dBm/MHz	-62 dBm
E.I.R.P. $<$ 200 mill watt that do not meet power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds (See Note 1)
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3)
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in table 5a	Roundup: $\{(1/360) \times (19 \times 10^6 \text{ PRI}_{\text{usec}})\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel Move Time</i> , and <i>Channel Closing Time</i> tests.					

Table 6 – Long Pulse Radar Test Signal

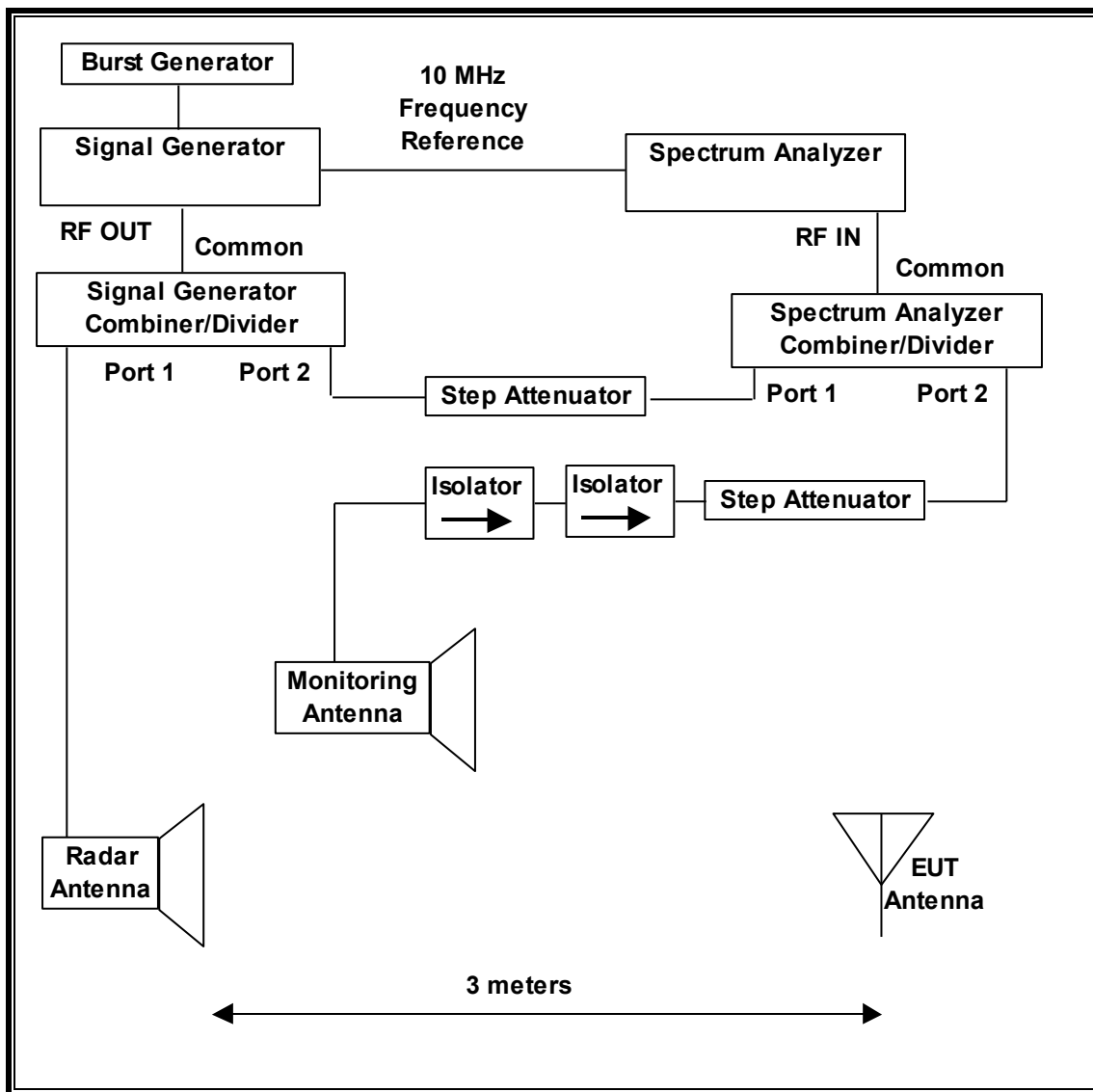
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

12.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

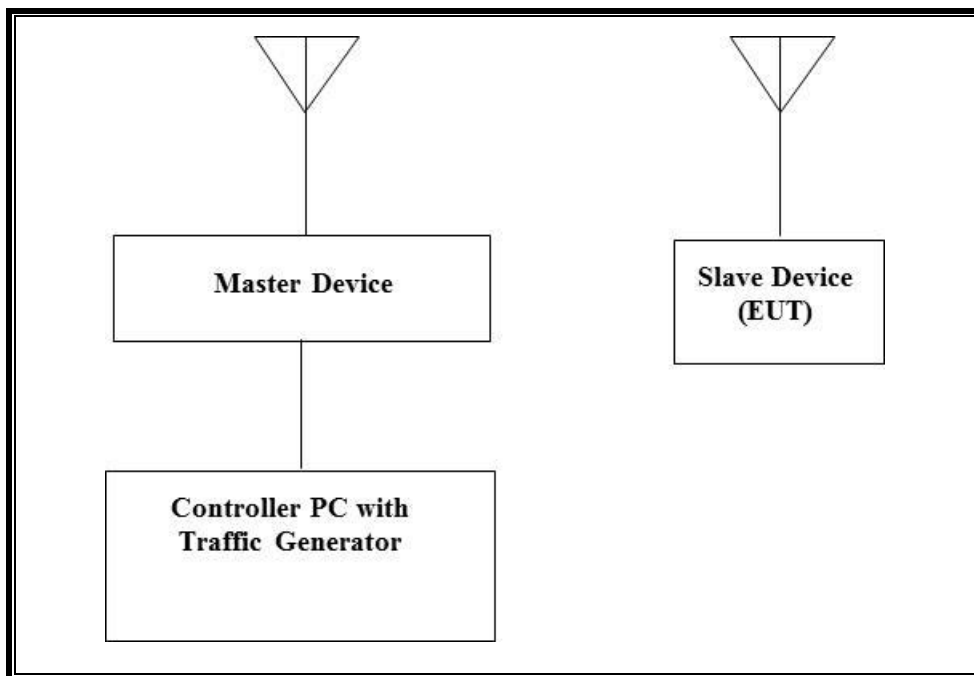
TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	US51350187	06/01/16
Signal Generator, MXG X-Series RF Vector	Agilent	N5172B	MY51350337	02/17/16

12.1.3. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
802.11ac Dual Band Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX181570A6	LDK102087
P.O.E. Injector	Phihong	POE30U-560(G)	PHI170102N2	DoC
Notebook PC (Controller/Server)	Lenovo	Type 4236-B92	PB-HEX04 12/05	DoC
AC Adapter (Controller/Server PC)	Lenovo	42T4418	11S42T4418Z1ZGWG08 R90M	DoC

12.1.4. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 17.83 dBm EIRP in the 5250-5350 MHz band and 17.90 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of chain 0: 0.18dBi and chain 1:0.03dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chains and two receive only chain, each connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the controller/server PC to the EUT using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is Android Version M, Build number PTCRB_150728

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

This is requirement not applicable to Slave Devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is $> 23\text{dBm}$ (EIRP). Therefore the required interference threshold level is -64 dBm . After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63\text{ dBm}$.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm . The tested level is lower than the required level hence it provides a margin to the limit.

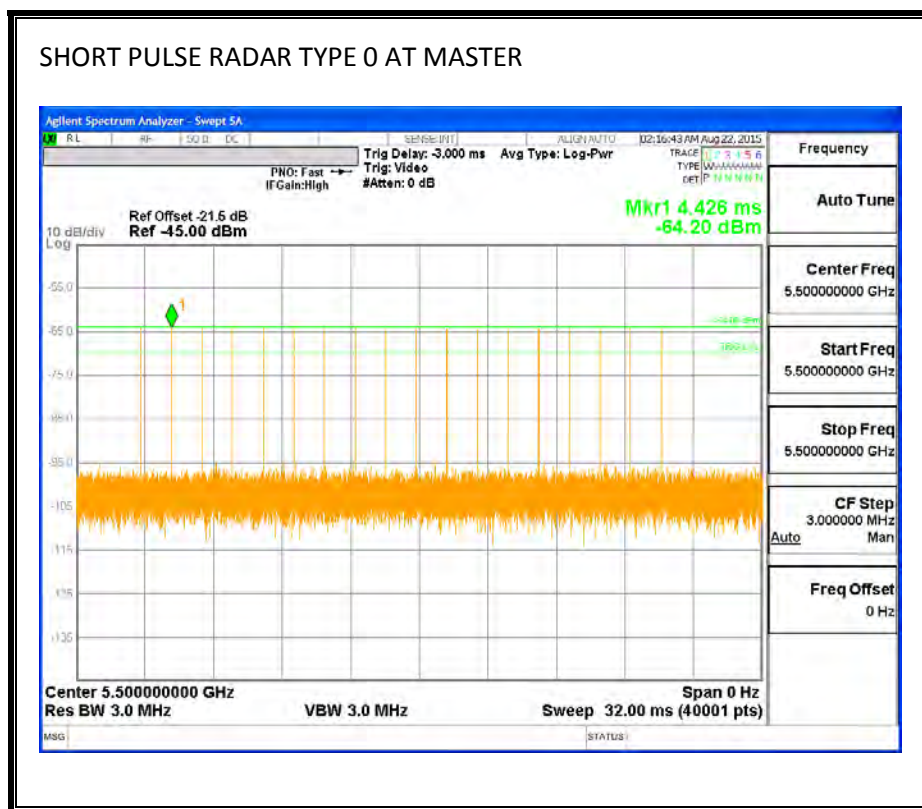
12.2. RESULTS FOR 20 MHz BANDWIDTH

12.2.1. TEST CHANNEL

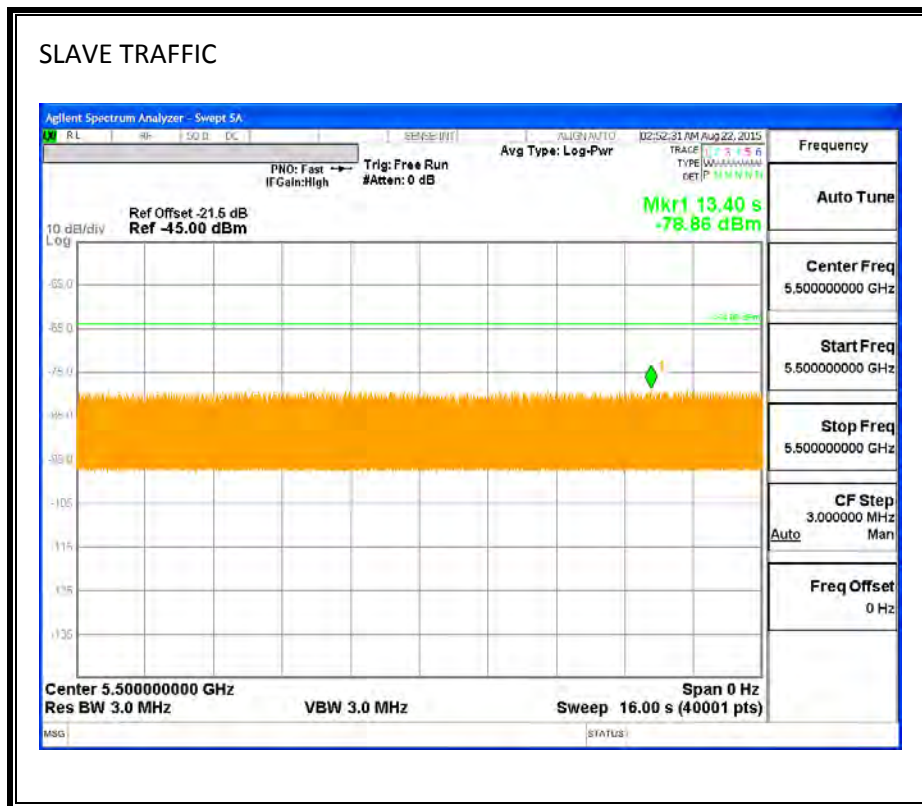
All tests were performed at a channel center frequency of 5500 MHz.

12.2.2. RADAR WAVEFORM AND TRAFFIC

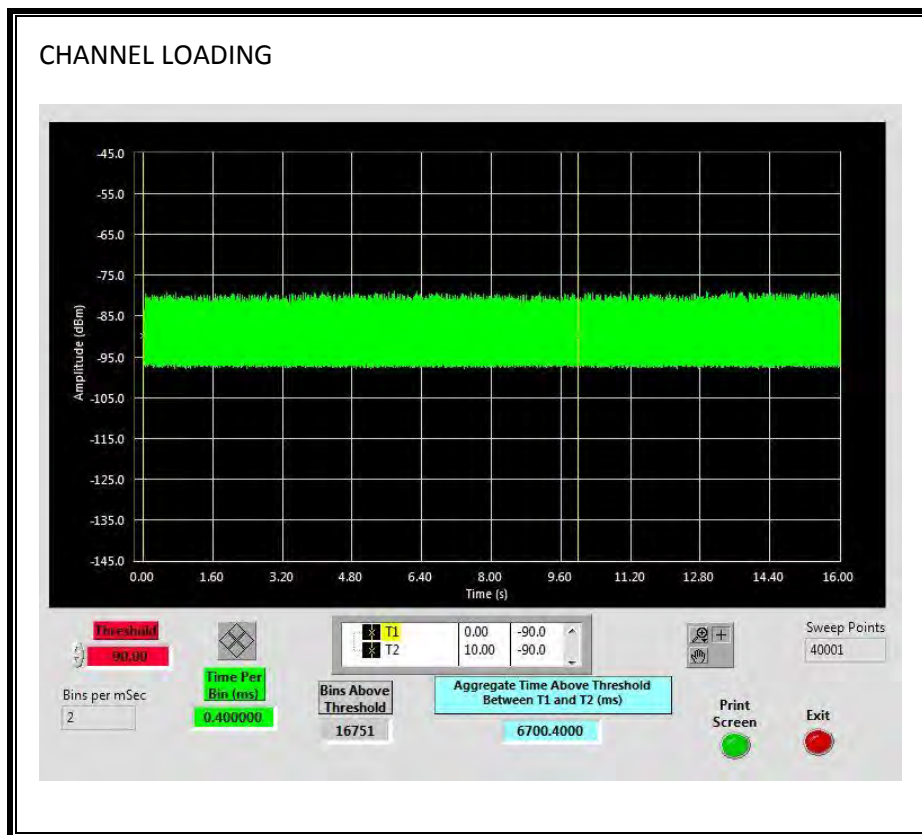
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 67.004%

12.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

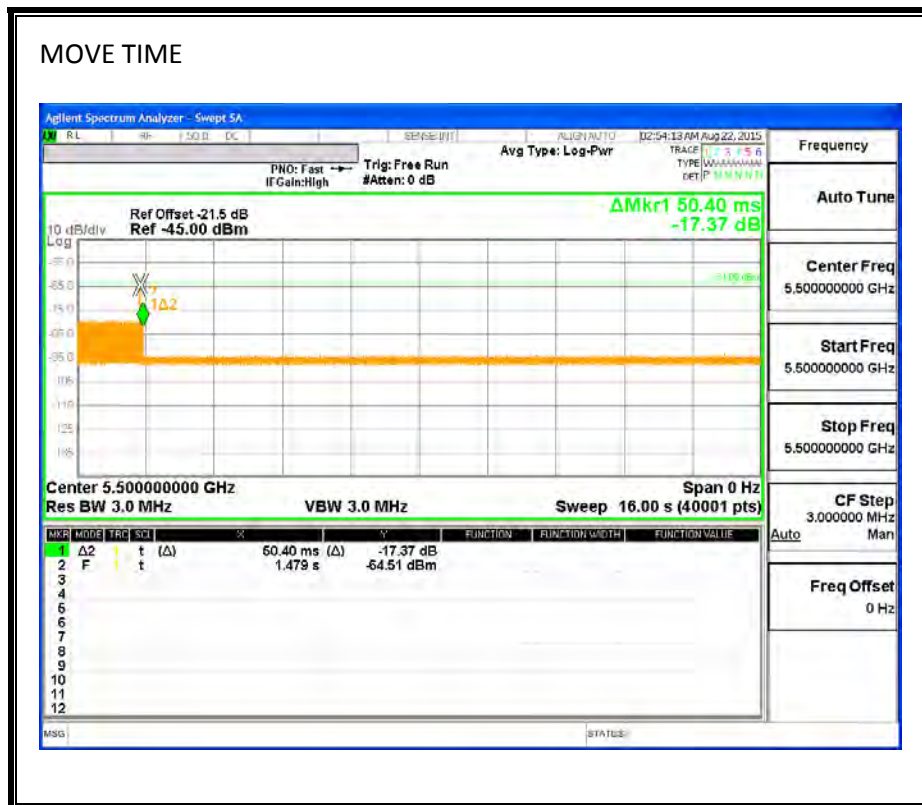
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

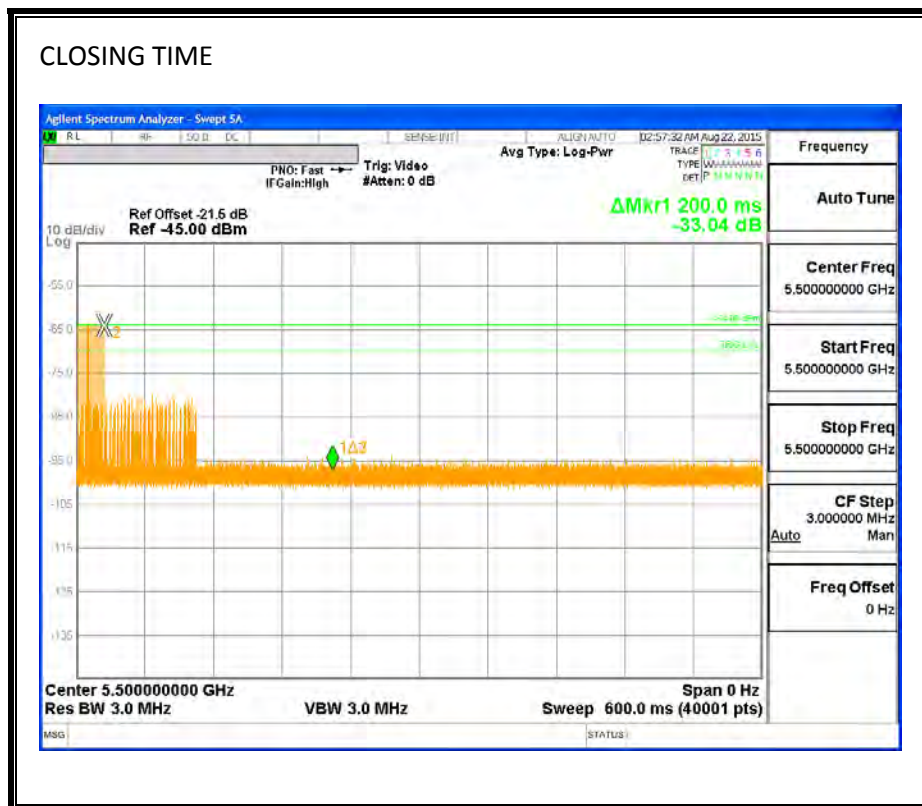
Channel Move Time (sec)	Limit (sec)
0.050	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

MOVE TIME

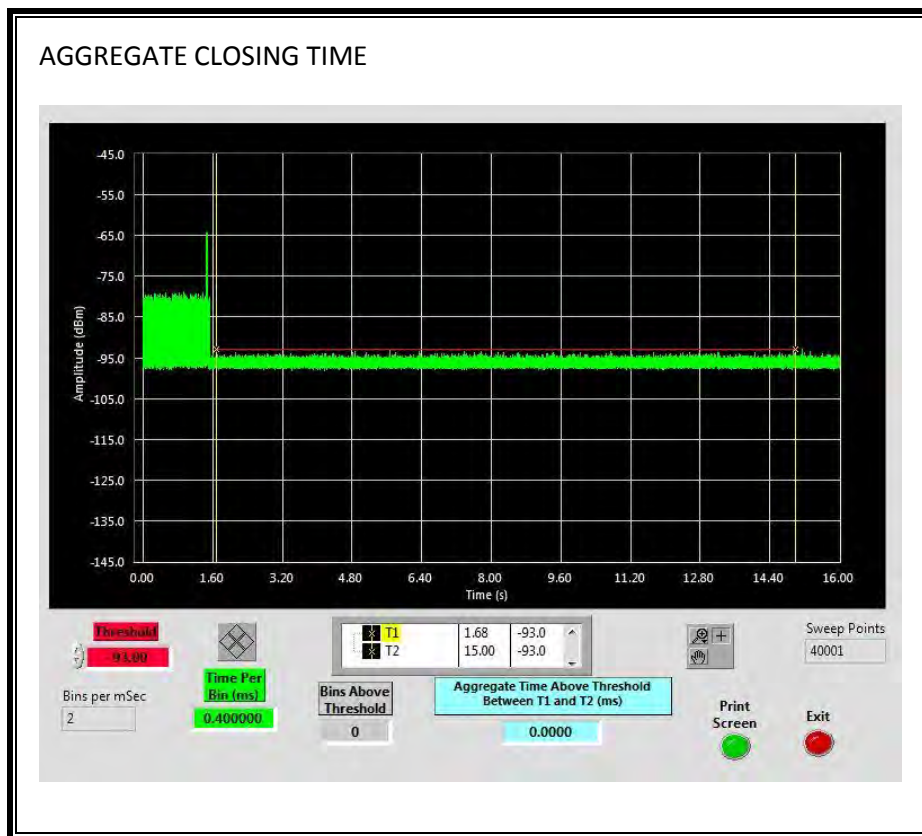


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



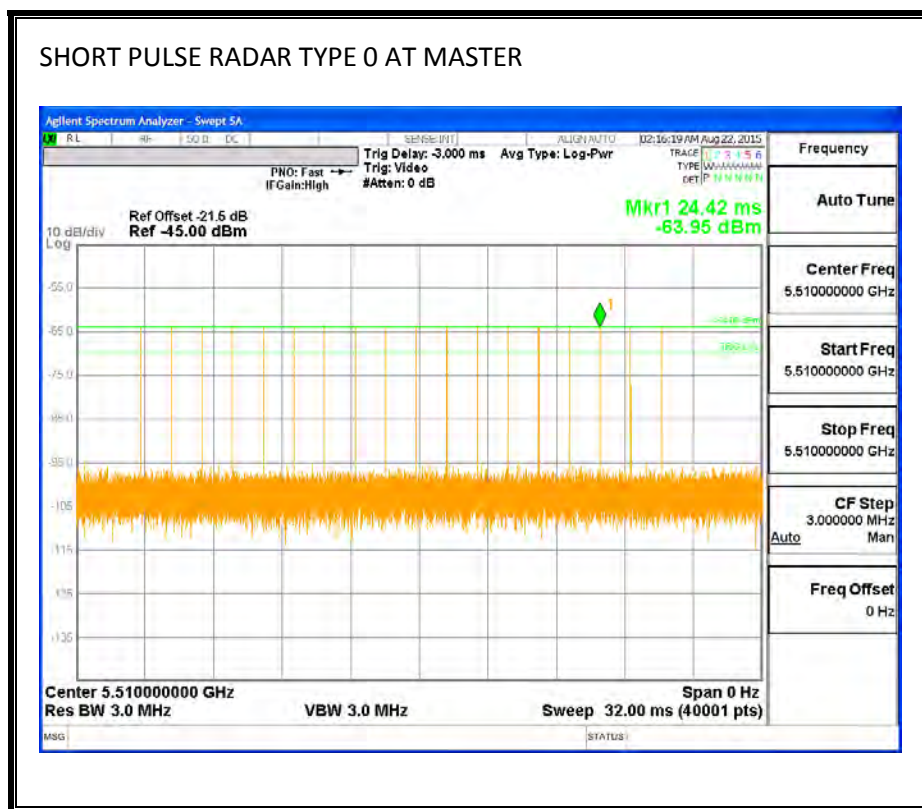
12.3. RESULTS FOR 40 MHz BANDWIDTH

12.3.1. TEST CHANNEL

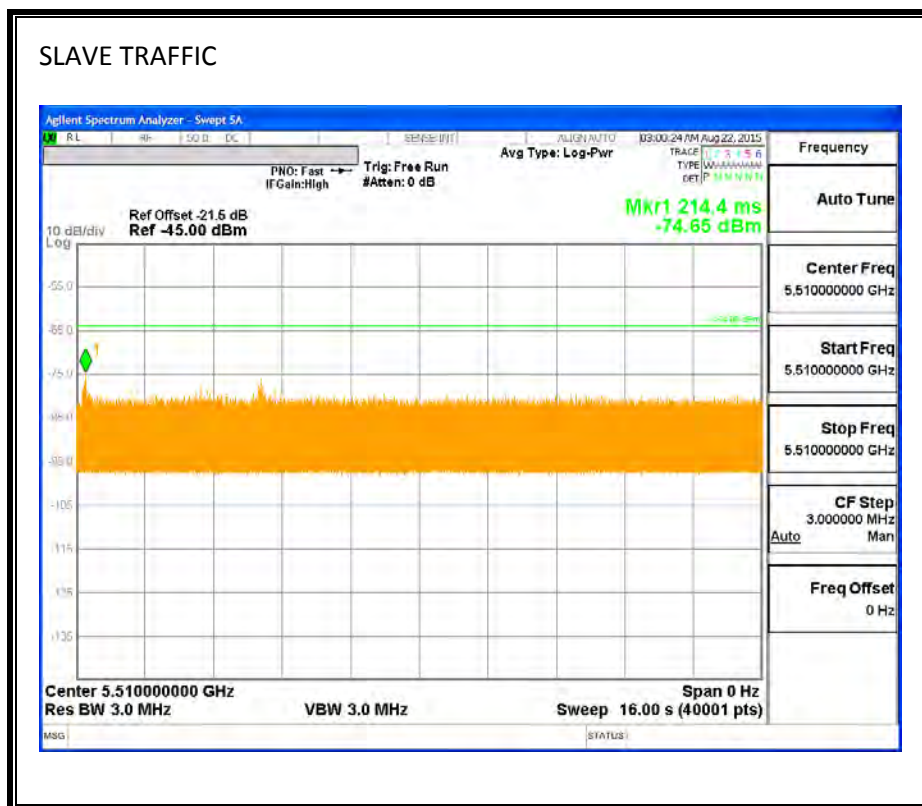
All tests were performed at a channel center frequency of 5510 MHz.

12.3.2. RADAR WAVEFORM AND TRAFFIC

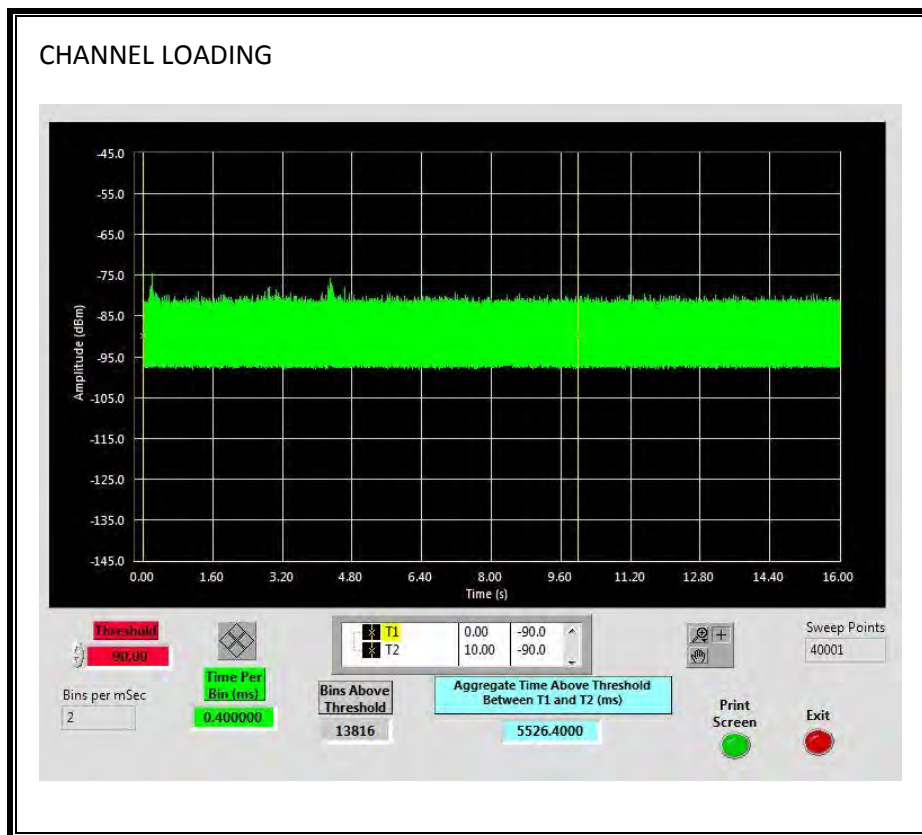
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 55.264%

12.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time (sec)	Limit (sec)
0.061	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60