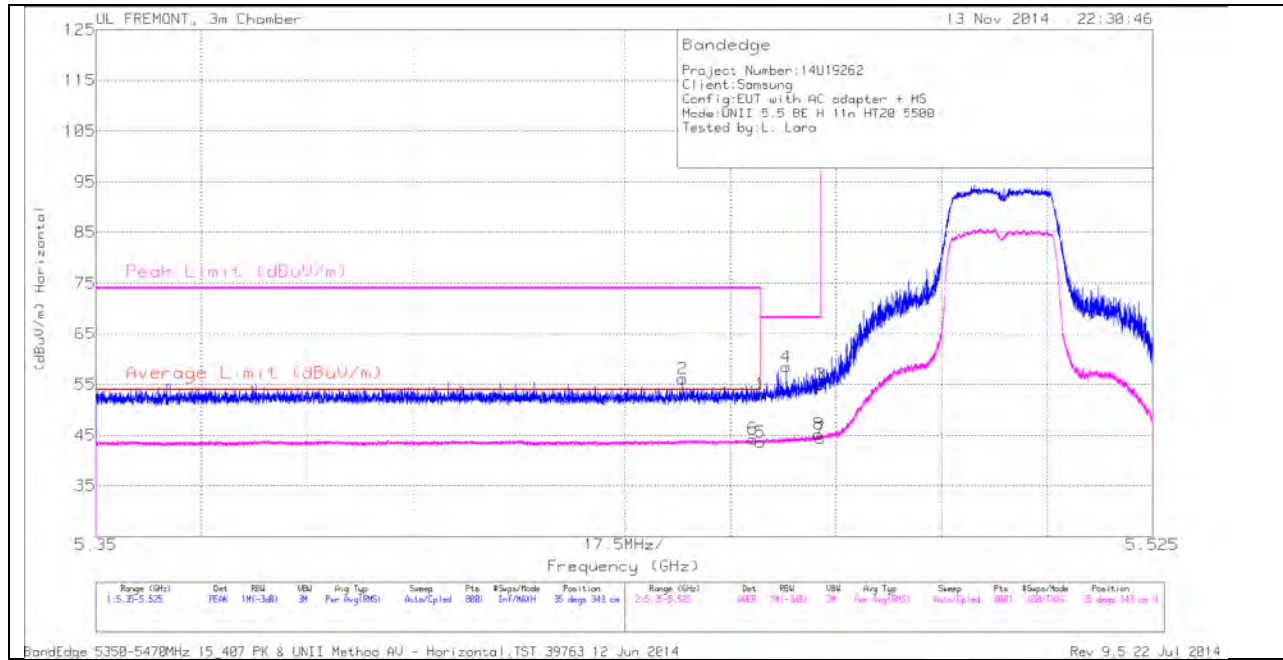


10.3.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

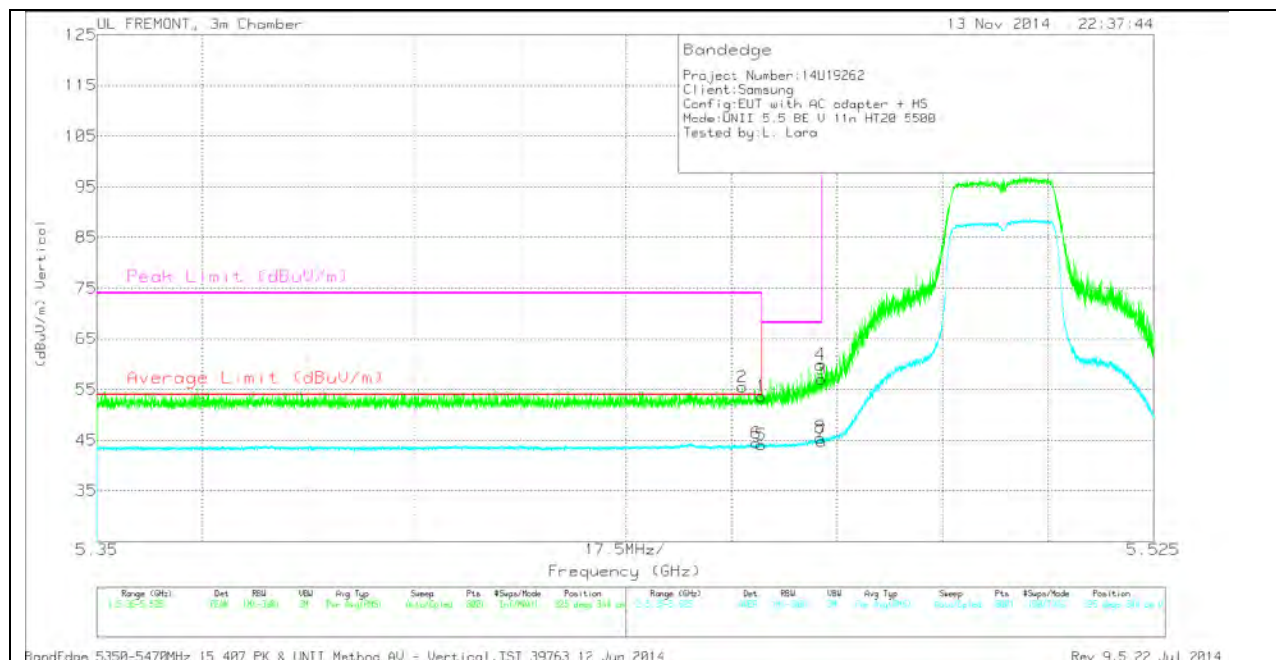
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.447	42.67	PK	34.8	-21.4	0	56.07	-	-	74	-17.93	35	343	H
6	5.459	30.53	RMS	34.8	-21.4	.34	44.27	54	-9.73	-	-	35	343	H
1	5.46	39.78	PK	34.8	-21.4	0	53.18	-	-	74	-20.82	35	343	H
5	5.46	29.86	RMS	34.8	-21.4	.34	43.6	54	-10.4	-	-	35	343	H
4	5.464	45.07	PK	34.8	-21.4	0	58.47	-	-	68.2	-9.73	35	343	H
3	5.47	41.46	PK	34.8	-21.3	0	54.96	-	-	68.2	-13.24	35	343	H
7	5.47	30.53	RMS	34.8	-21.3	.34	44.37	-	-	-	-	35	343	H
8	5.47	31.37	RMS	34.8	-21.3	.34	45.21	-	-	-	-	35	343	H

VERTICAL PEAK AND AVERAGE PLOT

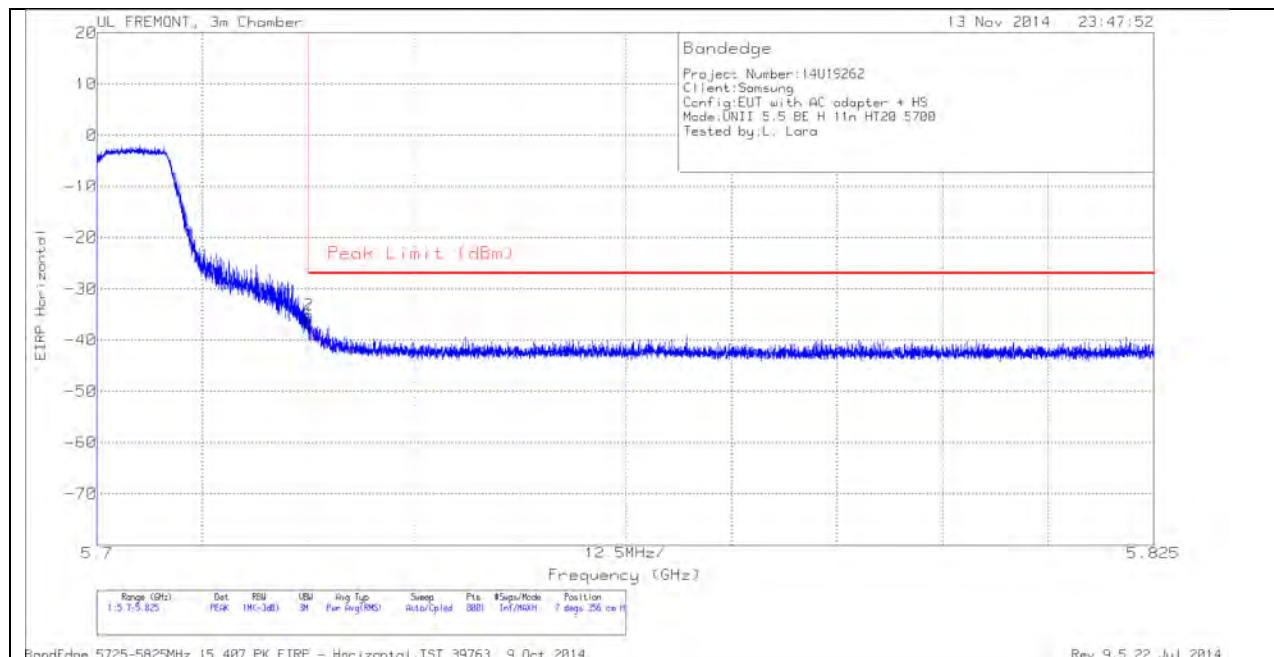


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.457	42.06	PK	34.8	-21.4	0	55.46	-	-	74	-18.54	325	344	V
6	5.459	30.76	RMS	34.8	-21.4	.34	44.5	54	-9.5	-	-	325	344	V
1	5.46	40.2	PK	34.8	-21.4	0	53.6	-	-	74	-20.4	325	344	V
5	5.46	30.29	RMS	34.8	-21.4	.34	44.03	54	-9.97	-	-	325	344	V
3	5.47	43.51	PK	34.8	-21.3	0	57.01	-	-	68.2	-11.19	325	344	V
4	5.47	46.41	PK	34.8	-21.3	0	59.91	-	-	68.2	-8.29	325	344	V
7	5.47	30.98	RMS	34.8	-21.3	.34	44.82	-	-	-	-	325	344	V
8	5.47	31.67	RMS	34.8	-21.3	.34	45.51	-	-	-	-	325	344	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

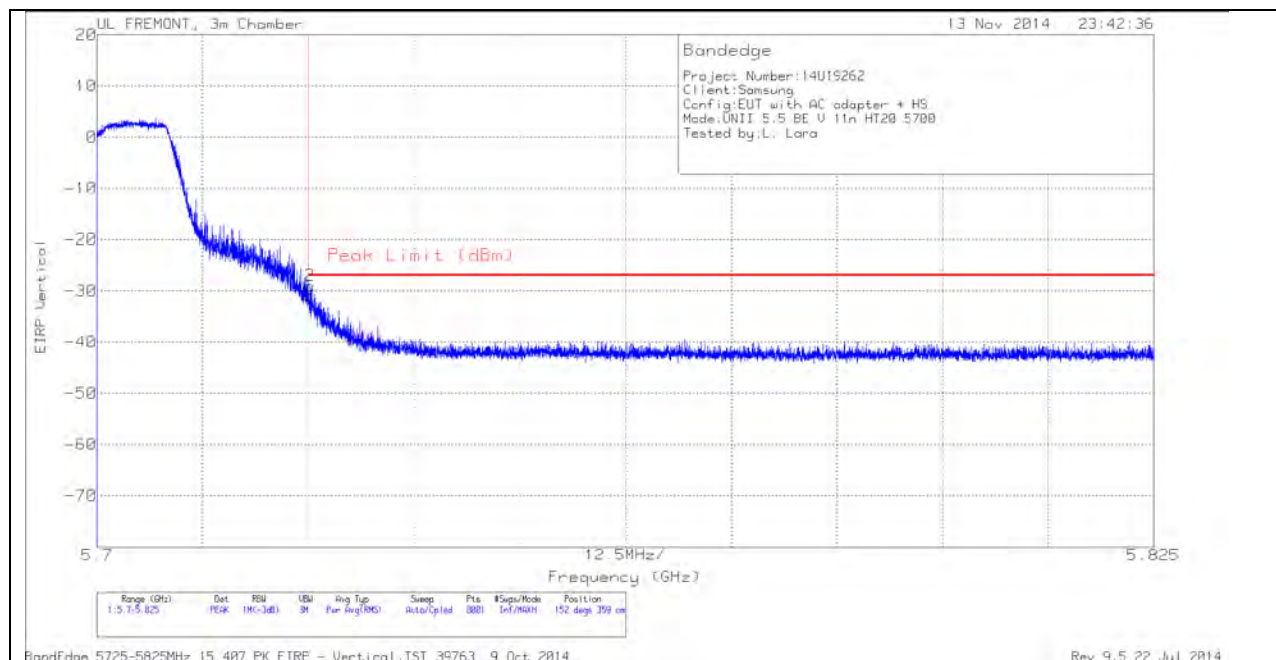
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-62.18	PK	34.8	-21.1	11.8	-36.68	-27	-9.68	7	356	H
2	5.725	-60.6	PK	34.8	-21.1	11.8	-35.1	-27	-8.1	7	356	H

VERTICAL PEAK AND AVERAGE PLOT

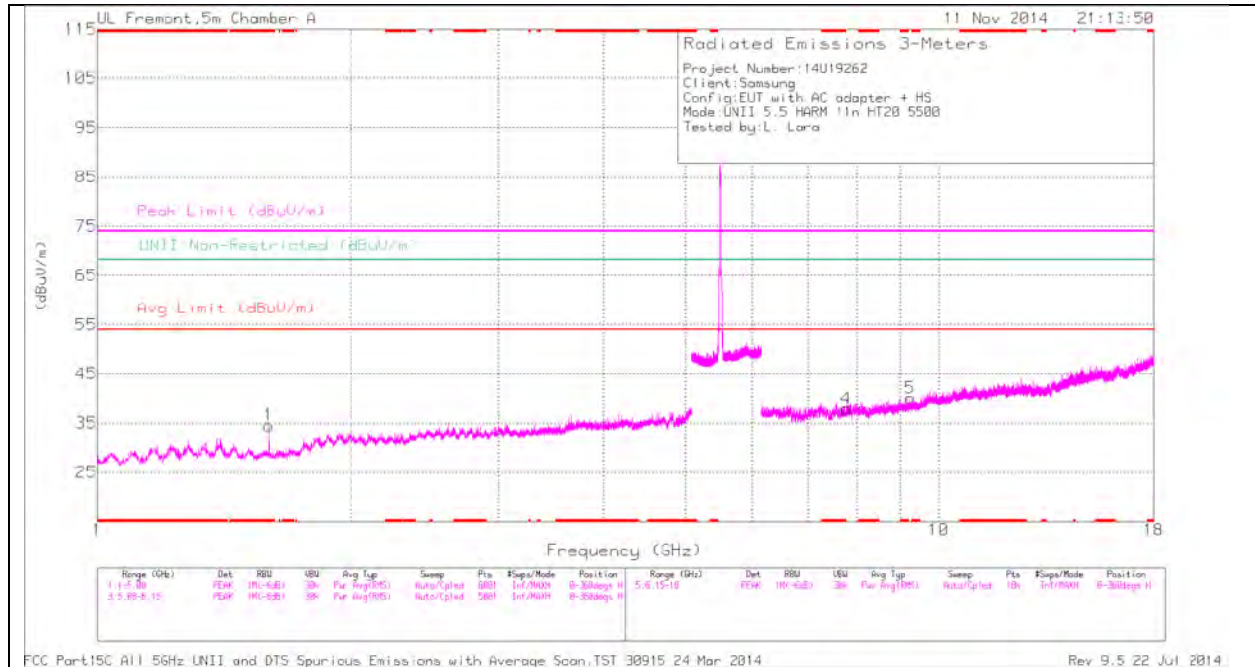


VERTICAL DATA

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	-56.38	PK	34.8	-21.1	11.8	-30.88	-27	-3.88	152	359	V
2	5.725	-54.51	PK	34.8	-21.1	11.8	-29.01	-27	-2.01	152	359	V

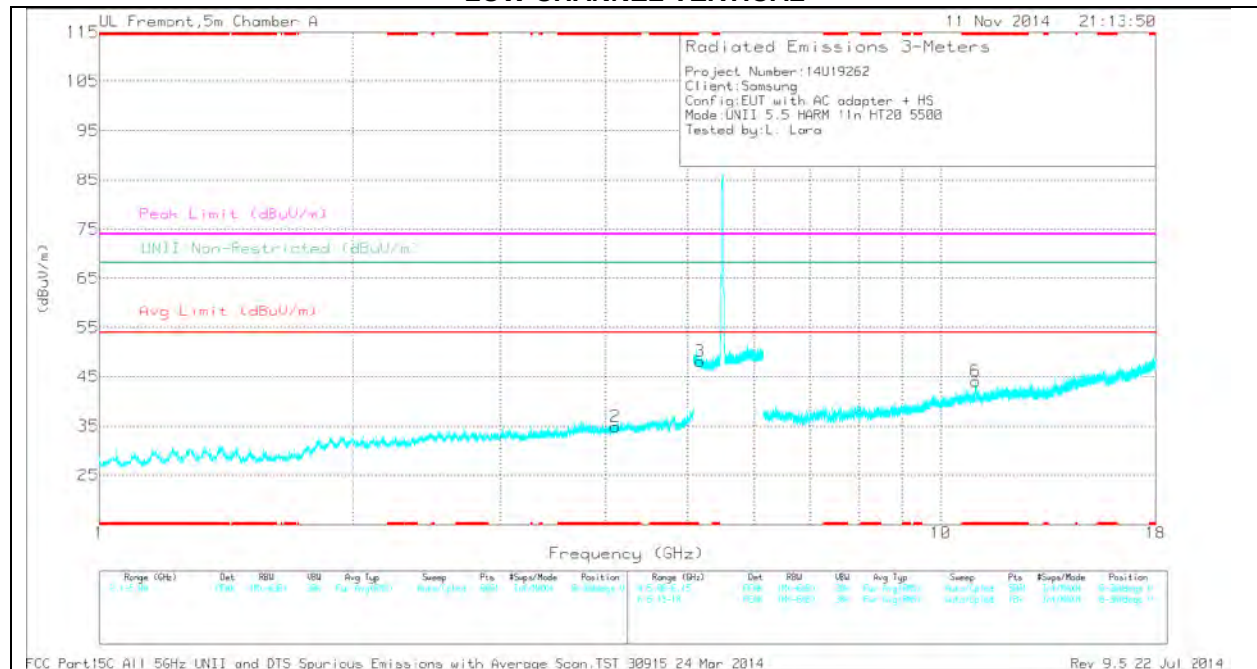
HARMONICS AND SPURIOUS EMISSIONS

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 T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.598	39.73	PK	28.8	-34	0	34.53	-	-	74	-39.47	-	-	0-360	100	H
2	* 4.101	31.65	PK	33.9	-30.7	0	34.85	-	-	74	-39.15	-	-	0-360	100	V
6	* 10.997	28.81	PK	37.7	-22.4	0	44.11	-	-	74	-29.89	-	-	0-360	201	V
3	5.177	34.63	PK	34.1	-20.6	0	48.13	-	-	-	-	68.2	-20.07	0-360	100	V
4	7.773	28.58	PK	35.4	-26.1	0	37.88	-	-	-	-	68.2	-30.32	0-360	201	H
5	9.241	28.26	PK	36.2	-24.4	0	40.06	-	-	-	-	68.2	-28.14	0-360	100	H

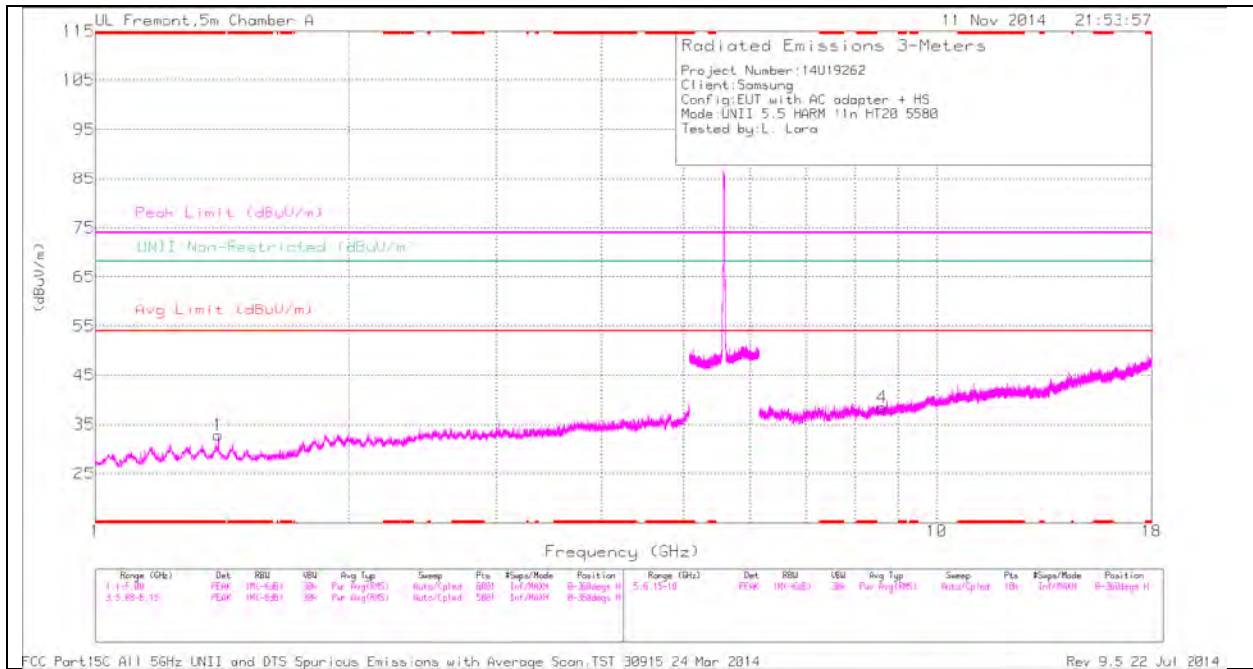
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.998	39.33	PK1	37.7	-22.4	0	54.63	-	-	74	-19.37	-	-	232	211	V
* 10.999	25.92	AD1	37.7	-22.4	-34	41.58	-54	-12.42	-	-	-	-	232	211	V

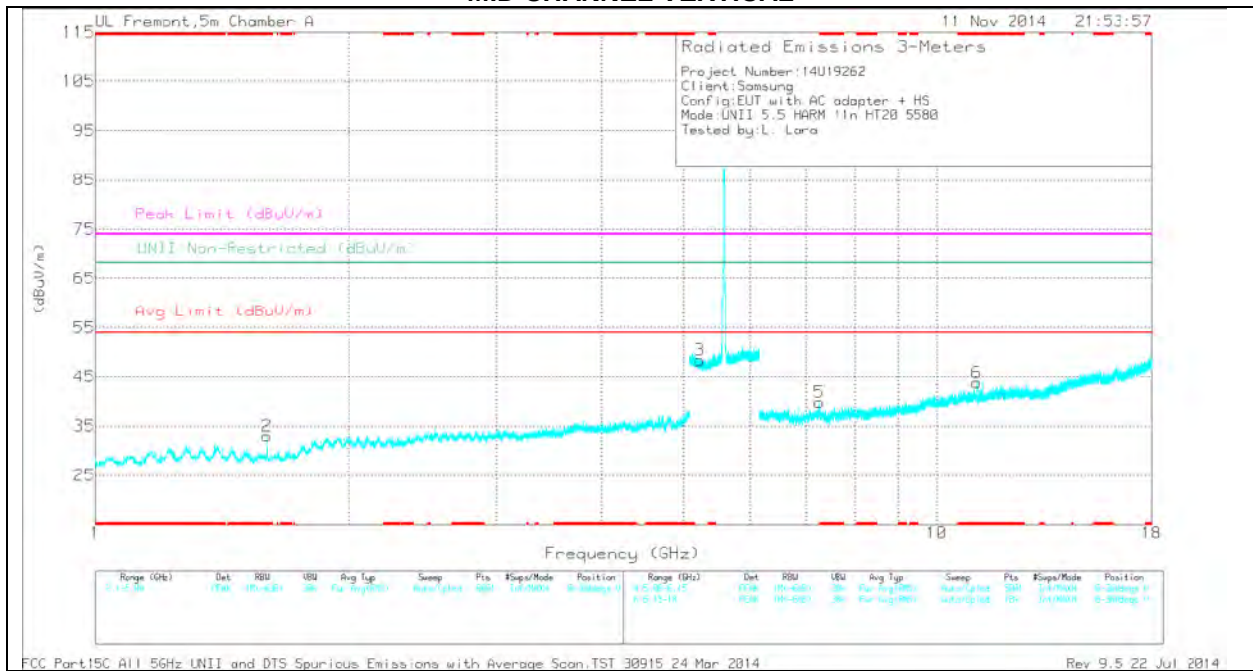
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MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fr Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	37.54	PK	29.8	-34.5	0	32.84	-	-	74	-41.16	-	-	0-360	100	H
2	* 1.598	38.12	PK	28.8	-34	0	32.92	-	-	74	-41.08	-	-	0-360	201	V
6	* 11.163	28.62	PK	37.8	-22.6	0	43.82	-	-	74	-30.18	-	-	0-360	201	V
3	5.231	34.66	PK	34.2	-20.5	0	48.36	-	-	-	-	68.2	-19.84	0-360	201	V
5	7.249	30	PK	35.2	-25.4	0	39.8	-	-	-	-	68.2	-28.4	0-360	201	V
4	8.618	28.16	PK	35.7	-25.4	0	38.46	-	-	-	-	68.2	-29.74	0-360	201	H

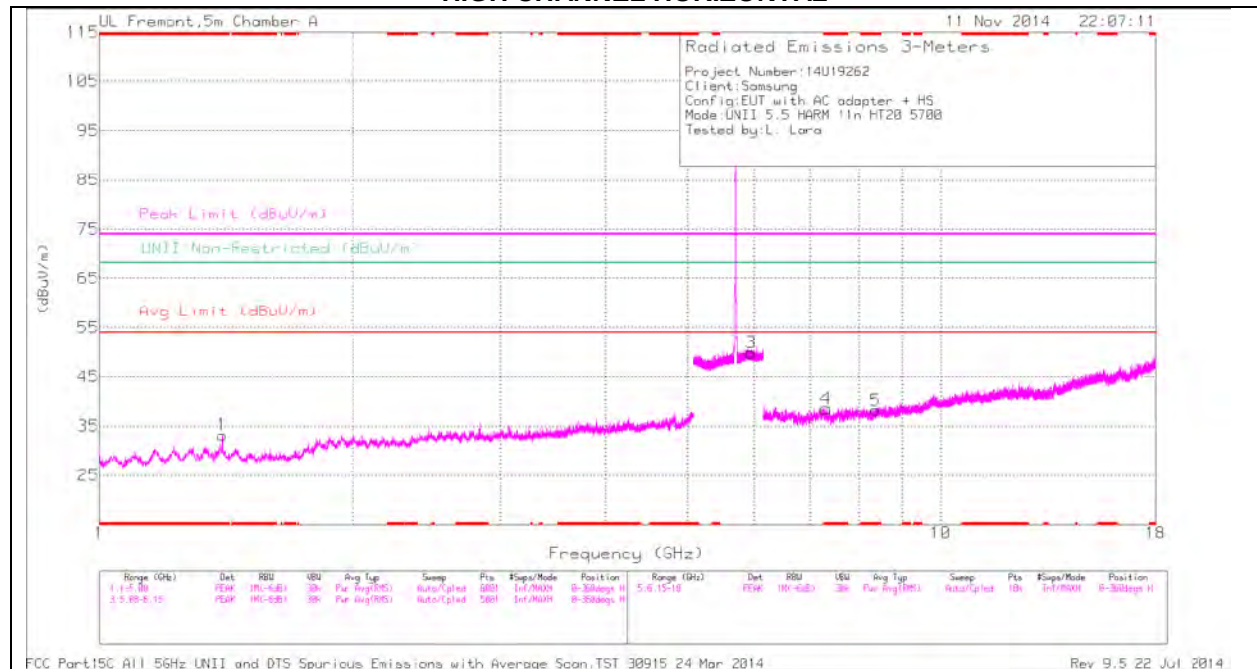
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fr tr/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
* 11.165	39.47	PK1	37.8	-22.6	0	54.67	-	-	74	-19.33	-	-	226	226	V
* 11.162	25.26	AD1	37.8	-22.6	.34	40.82	54	-13.18	-	-	-	-	226	226	V

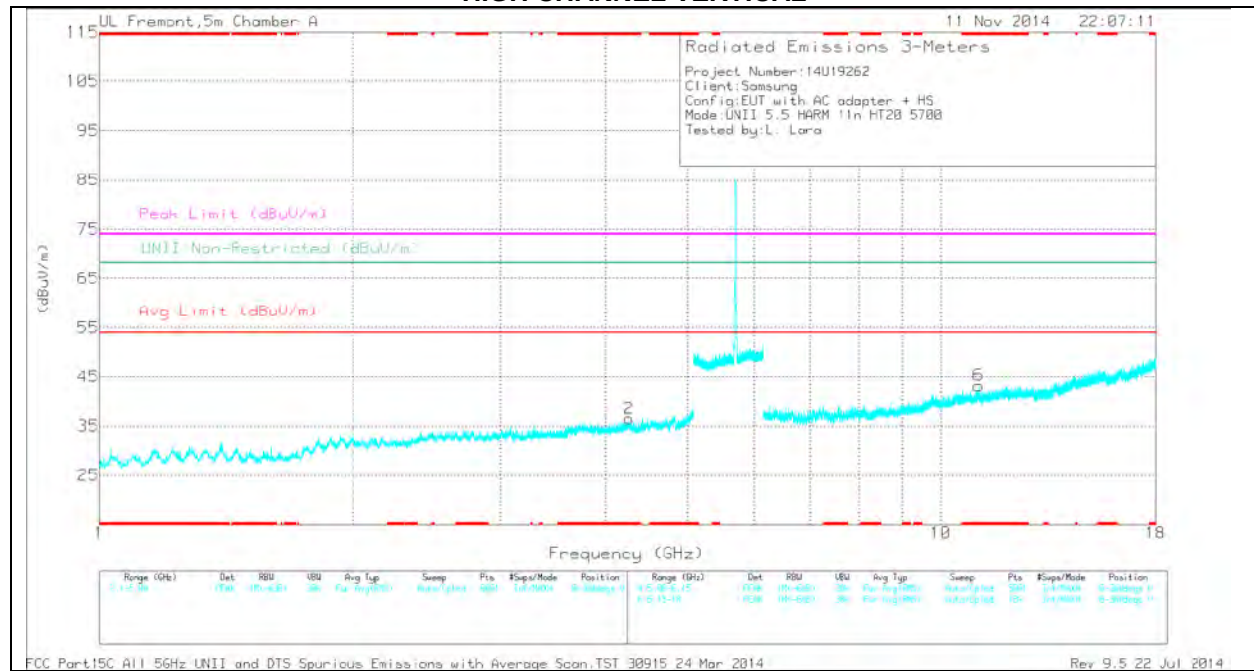
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	37.84	PK	29.8	-34.5	0	33.14	-	-	74	-40.86	-	-	0-360	100	H
2	* 4.262	31.64	PK	34	-29.1	0	36.54	-	-	74	-37.46	-	-	0-360	100	V
4	* 7.31	29.22	PK	35.2	-25.9	0	38.52	-	-	74	-35.48	-	-	0-360	100	H
5	* 8.366	28.06	PK	35.7	-25.6	0	38.16	-	-	74	-35.84	-	-	0-360	100	H
6	* 11.085	27.23	PK	37.7	-21.7	0	43.23	-	-	74	-30.77	-	-	0-360	201	V
3	5.951	34.09	PK	35.2	-19.4	0	49.89	-	-	-	-	68.2	-18.31	0-360	201	H

PK - Peak detector

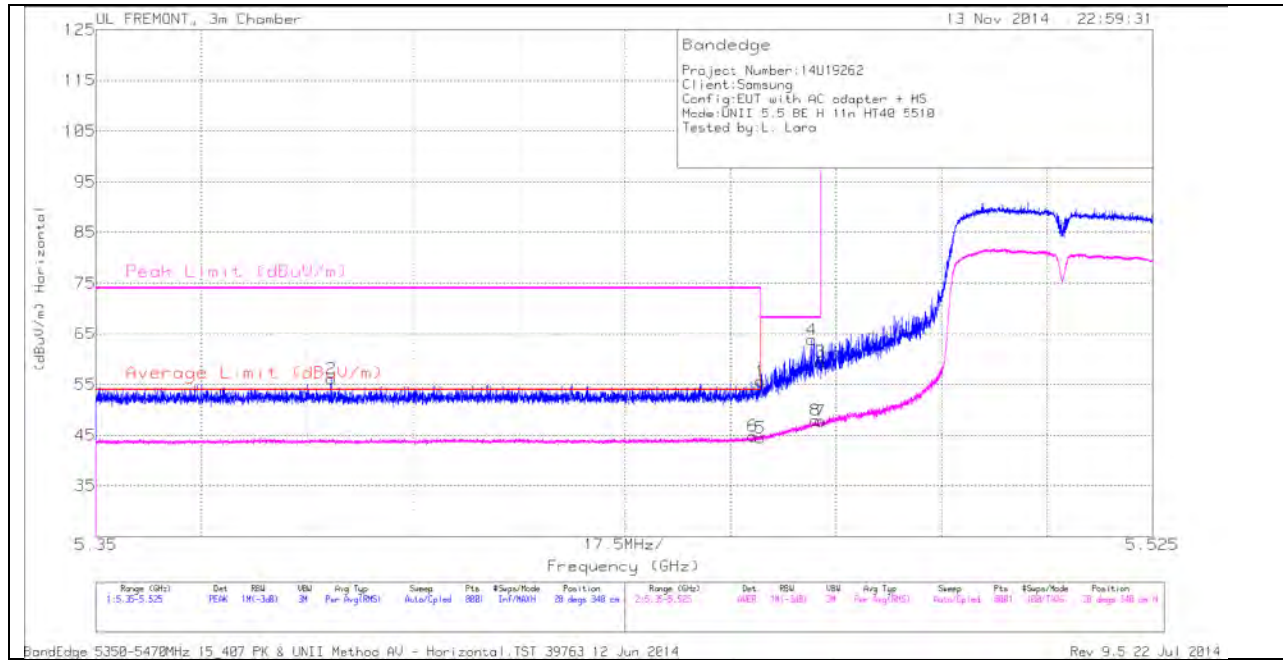
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fil tr/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
* 11.086	33.79	PK1	37.7	-21.7	0	49.79	-	-	74	-24.21	-	-	92	176	V
* 11.087	22.42	AD1	37.7	-21.8	.34	38.68	54	-15.32	-	-	-	-	92	176	V

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

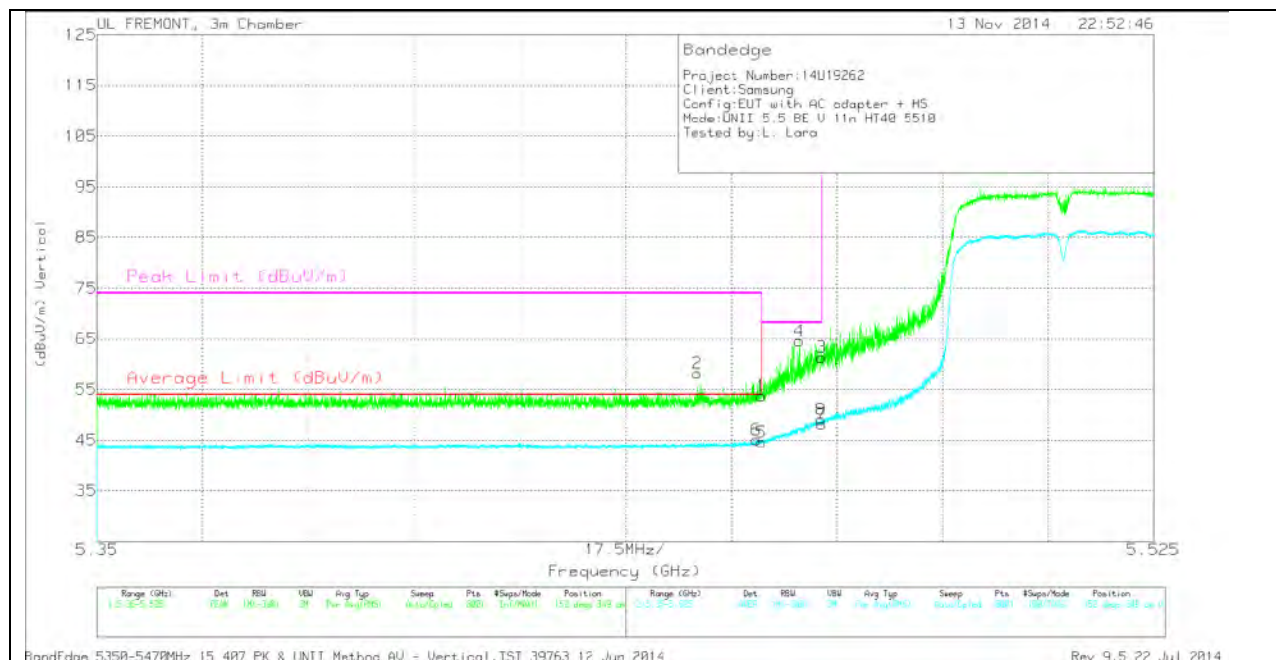
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.389	42.79	PK	34.7	-21.4	0	56.09	-	-	74	-17.91	28	348	H
6	5.459	30.72	RMS	34.8	-21.4	.66	44.78	54	-9.22	-	-	28	348	H
1	5.46	42.22	PK	34.8	-21.4	0	55.62	-	-	74	-18.38	28	348	H
5	5.46	30.4	RMS	34.8	-21.4	.66	44.46	54	-9.54	-	-	28	348	H
4	5.469	50.31	PK	34.8	-21.3	0	63.81	-	-	68.2	-4.39	28	348	H
8	5.469	33.79	RMS	34.8	-21.3	.66	47.95	-	-	-	-	28	348	H
3	5.47	45.97	PK	34.8	-21.3	0	59.47	-	-	68.2	-8.73	28	348	H
7	5.47	33.63	RMS	34.8	-21.3	.66	47.79	-	-	-	-	28	348	H

VERTICAL PEAK AND AVERAGE PLOT

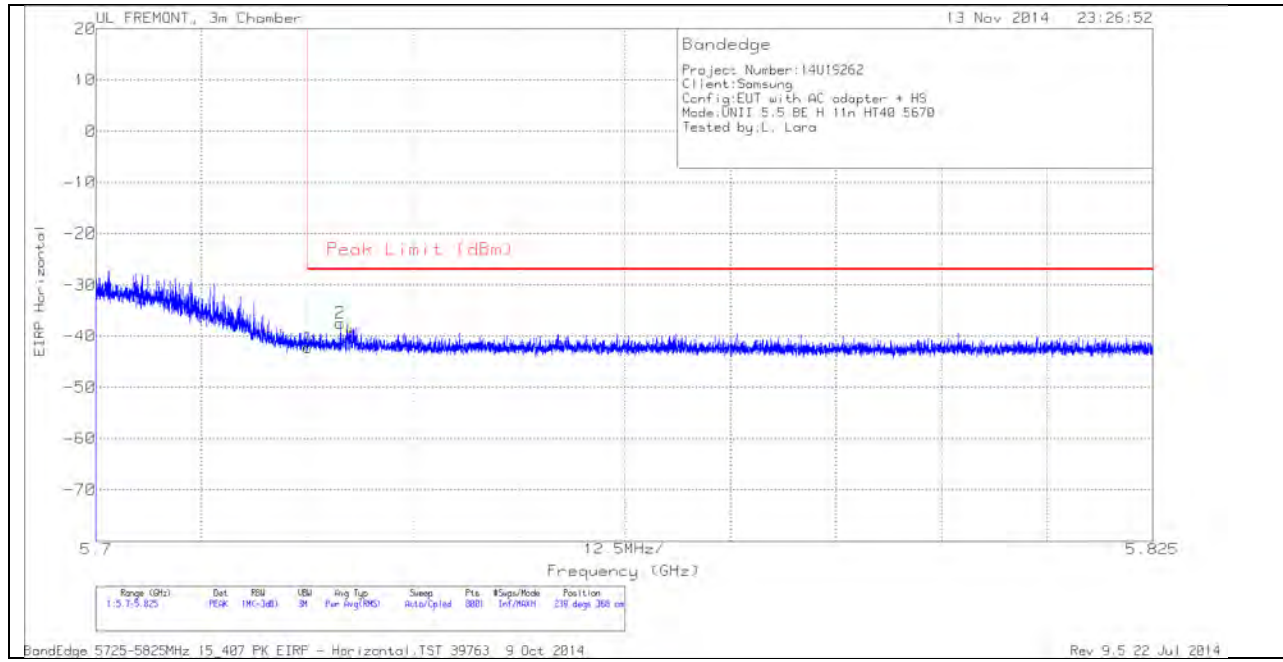


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.449	44.87	PK	34.8	-21.4	0	58.27	-	-	74	-15.73	152	349	V
6	5.459	30.98	RMS	34.8	-21.4	.66	45.04	54	-8.96	-	-	152	349	V
1	5.46	40.35	PK	34.8	-21.4	0	53.75	-	-	74	-20.25	152	349	V
5	5.46	30.57	RMS	34.8	-21.4	.66	44.63	54	-9.37	-	-	152	349	V
4	5.466	51.04	PK	34.8	-21.3	0	64.54	-	-	68.2	-3.66	152	349	V
3	5.47	47.83	PK	34.8	-21.3	0	61.33	-	-	68.2	-6.87	152	349	V
7	5.47	33.98	RMS	34.8	-21.3	.66	48.14	-	-	-	-	152	349	V
8	5.47	34.84	RMS	34.8	-21.3	.66	49	-	-	-	-	152	349	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

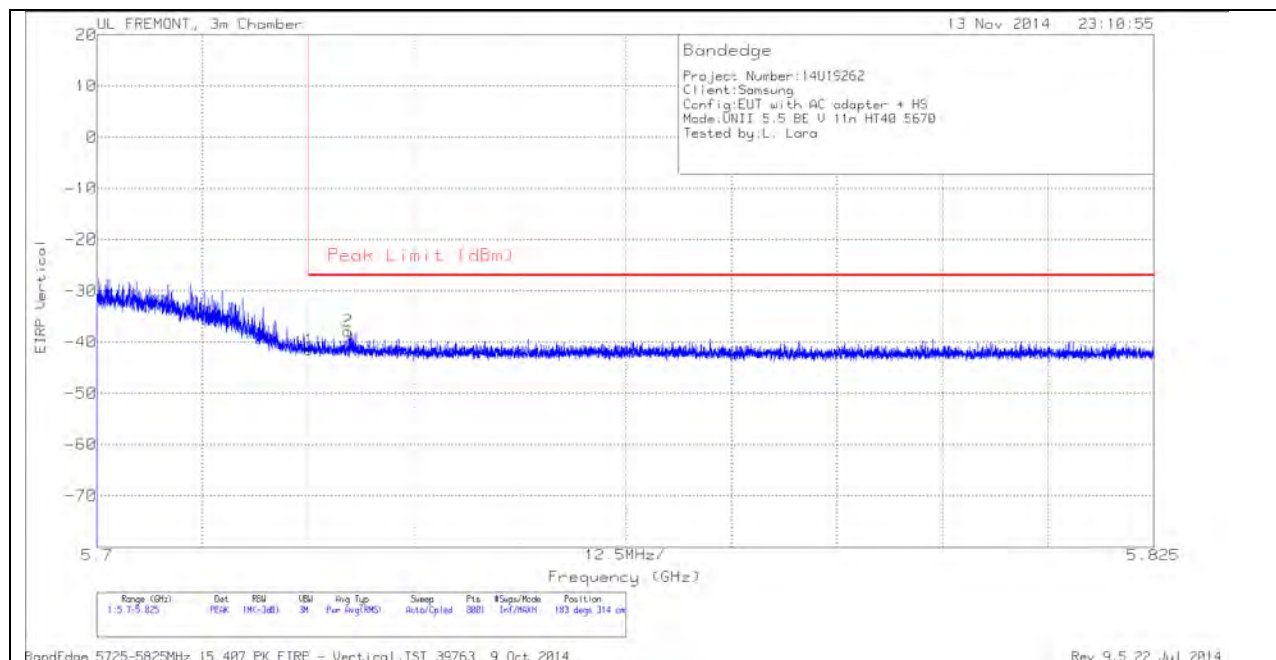
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-67.72	PK	34.8	-21.1	11.8	-42.22	-27	-15.22	239	368	H
2	5.729	-62.82	PK	34.8	-21.2	11.8	-37.42	-27	-10.42	239	368	H

VERTICAL PEAK AND AVERAGE PLOT

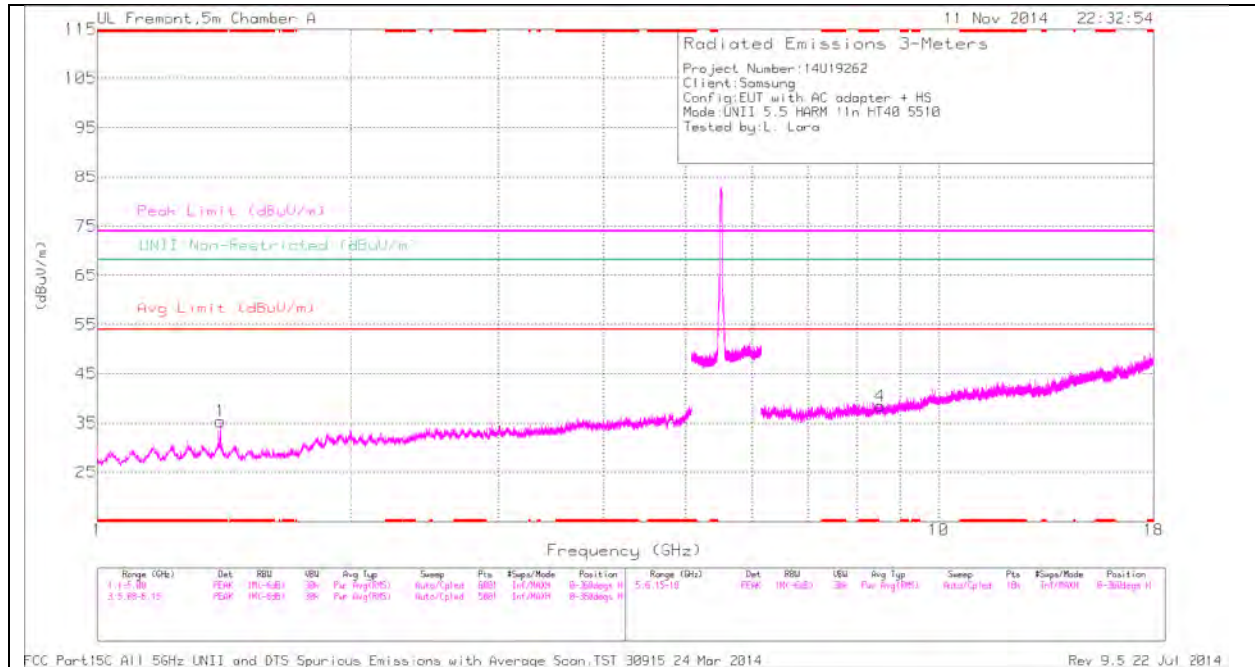


VERTICAL DATA

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	5.725	-67.05	PK	34.8	-21.1	11.8	0	-41.55	-27	-14.55	183	314	V
2	5.73	-63.27	PK	34.8	-21.1	11.8	0	-37.77	-27	-10.77	183	314	V

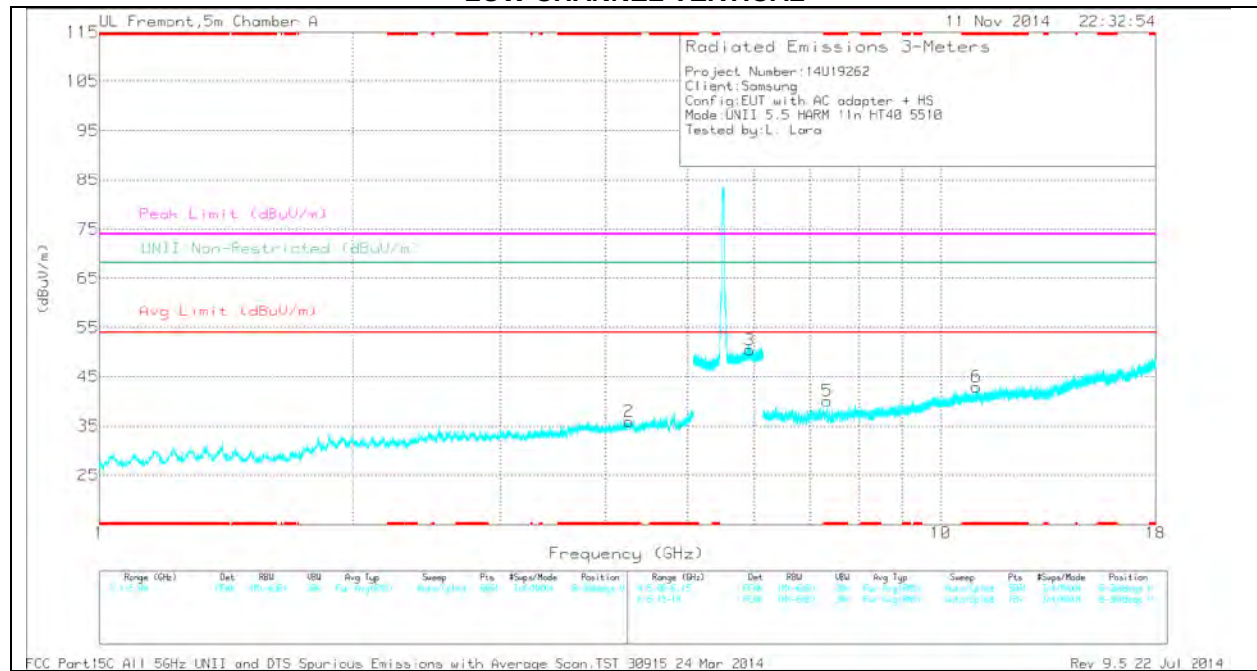
HARMONICS AND SPURIOUS EMISSIONS

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 T136 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.401	40.03	PK	29.8	-34.5	0	35.33	-	-	74	-38.67	-	-	0-360	100	H
2	* 4.261	31.04	PK	34	-29.1	0	35.94	-	-	74	-38.06	-	-	0-360	201	V
5	* 7.33	31.39	PK	35.2	-26.5	0	40.09	-	-	74	-33.91	-	-	0-360	201	V
6	* 11.019	27.36	PK	37.7	-22.1	0	42.96	-	-	74	-31.04	-	-	0-360	201	V
3	5.929	34.64	PK	35.1	-19.3	0	50.44	-	-	-	-	68.2	-17.76	0-360	100	V
4	8.521	28.45	PK	35.7	-25.7	0	38.45	-	-	-	-	68.2	-29.75	0-360	100	H

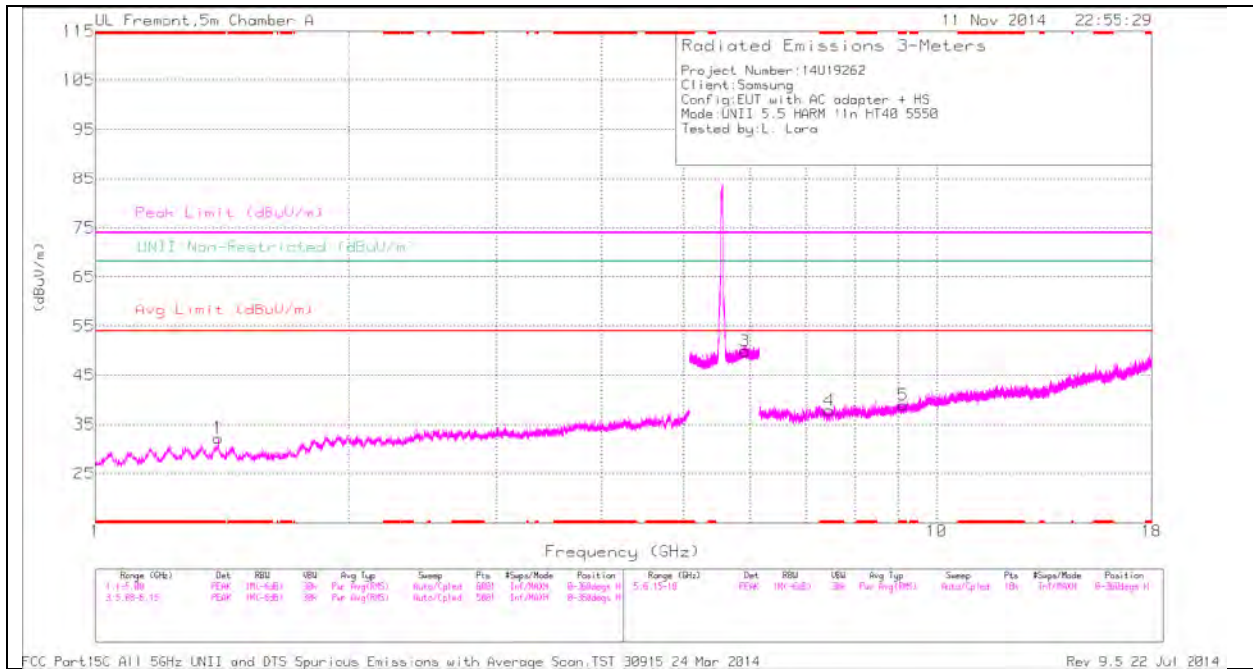
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.021	35.07	PK1	37.7	-22.1	0	50.67	-	-	74	-23.33	-	-	1	202	V
* 11.02	23.64	AD1	37.7	-22.1	.66	40.01	54	-13.99	-	-	-	-	1	202	V

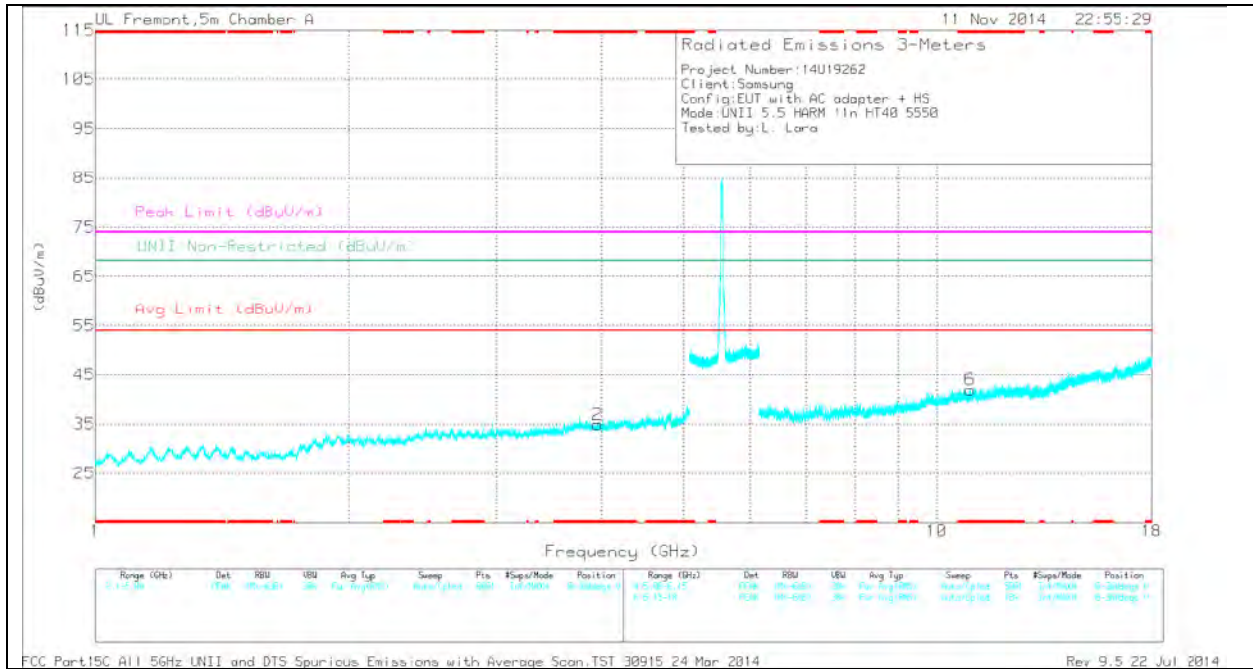
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MID CHANNEL HORIZONTAL



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

MID CHANNEL VERTICAL



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

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fr Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	36.92	PK	29.8	-34.5	0	32.22	-	-	74	-41.78	-	-	0-360	100	H
2	* 3.954	31.55	PK	33.7	-30.4	0	34.85	-	-	74	-39.15	-	-	0-360	201	V
4	* 7.448	29.19	PK	35.3	-26.7	0	37.79	-	-	74	-36.21	-	-	0-360	100	H
5	* 9.119	27.95	PK	36	-25	0	38.95	-	-	74	-35.05	-	-	0-360	201	H
6	* 10.954	26.55	PK	37.8	-22.4	0	41.95	-	-	74	-32.05	-	-	0-360	100	V
3	5.919	34.09	PK	35.1	-19.3	0	49.89	-	-	-	-	68.2	-18.31	0-360	201	H

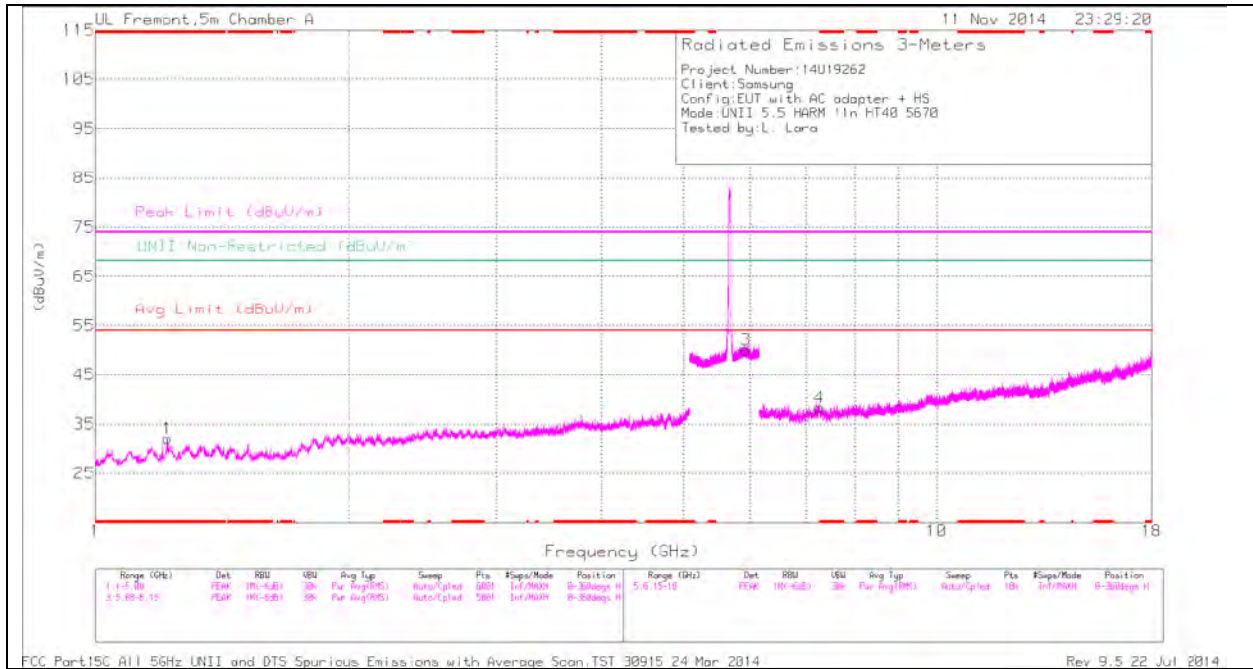
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fr tr/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
* 10.954	33.73	PK1	37.8	-22.4	0	49.13	-	-	74	-24.87	-	-	1	100	V
* 10.955	23	AD1	37.8	-22.4	.66	39.17	54	-14.83	-	-	-	-	1	100	V

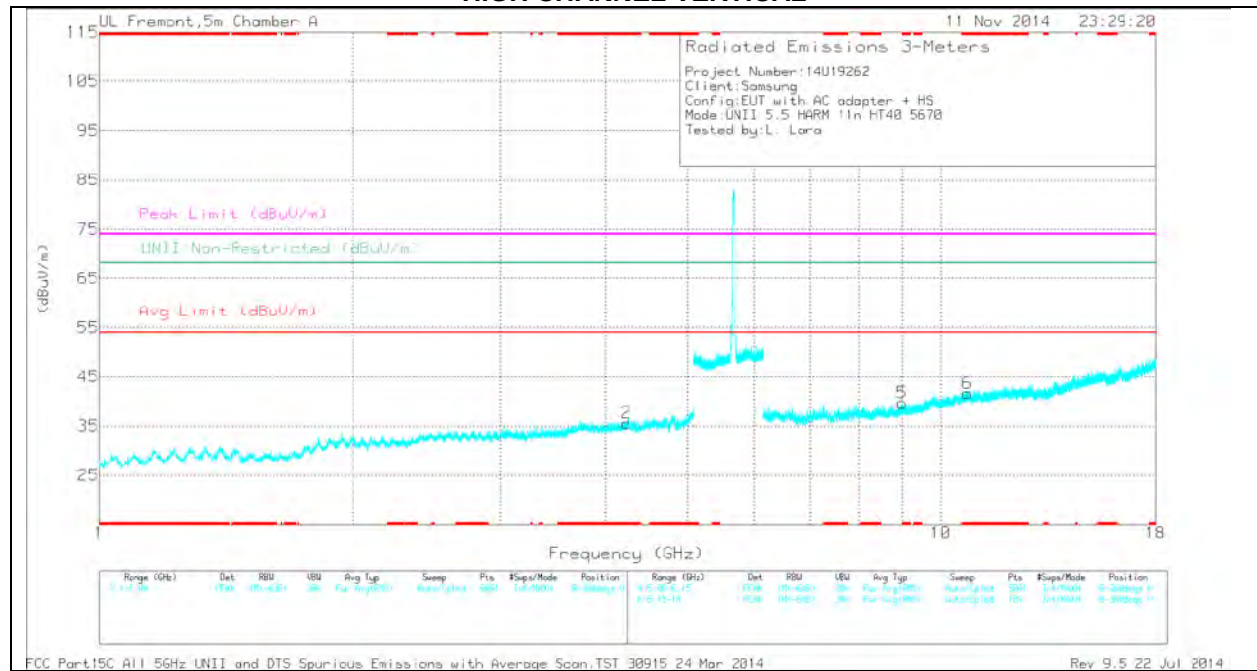
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



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

HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.22	37.12	PK	29.5	-34.6	0	32.02	-	-	74	-41.98	-	-	0-360	201	H
2	* 4.229	30.87	PK	33.9	-29.2	0	35.57	-	-	74	-38.43	-	-	0-360	201	V
4	* 7.255	28.49	PK	35.2	-25.4	0	38.29	-	-	74	-35.71	-	-	0-360	201	H
6	* 10.759	26.01	PK	37.9	-22.3	0	41.61	-	-	74	-32.39	-	-	0-360	100	V
3	5.929	34.25	PK	35.1	-19.3	0	50.05	-	-	-	-	68.2	-18.15	0-360	201	H
5	8.998	28.58	PK	35.9	-24.8	0	39.68	-	-	-	-	68.2	-28.52	0-360	201	V

PK - Peak detector

RADIATED EMISSIONS

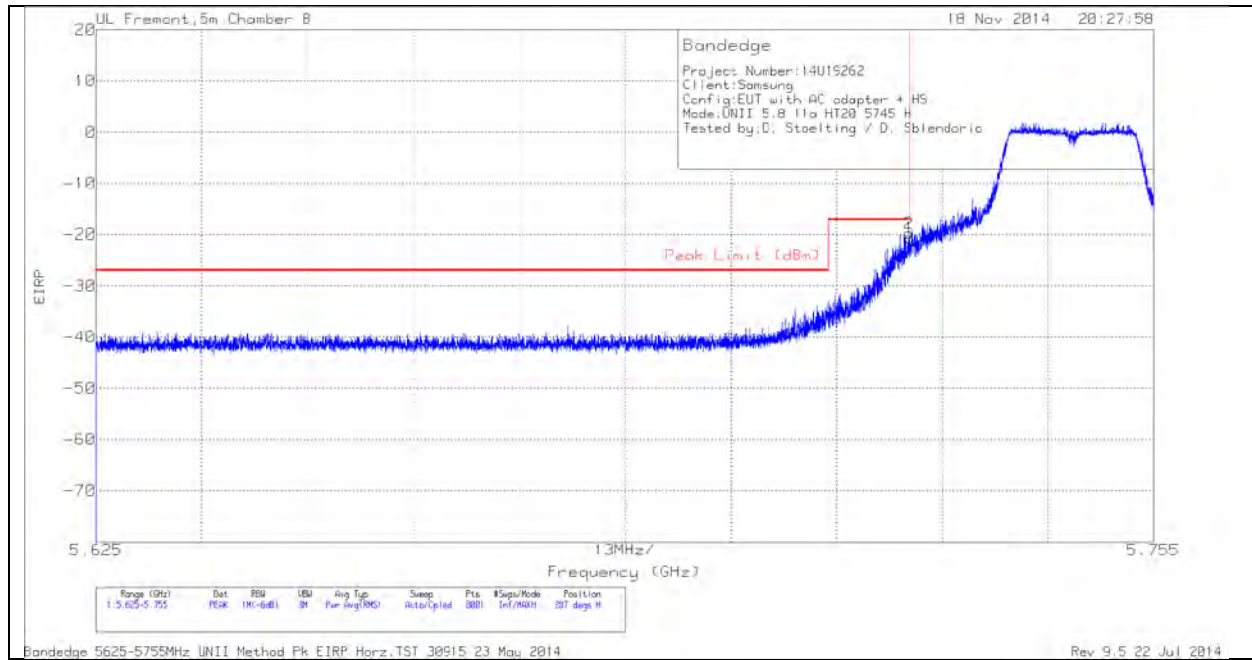
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.761	34.18	PK1	37.9	-22.3	0	49.78	-	-	74	-24.22	-	-	1	100	V
* 10.759	22.78	AD1	37.9	-22.3	.66	39.15	54	-14.85	-	-	-	-	1	100	V

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

10.4. 5.8 GHz

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

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (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	5.725	-46.91	PK	34.6	-20.1	11.8	0	-20.61	-17	-3.61	287	309	H
2	5.725	-46.09	PK	34.6	-20.1	11.8	0	-19.79	-17	-2.79	287	309	H

UL Fremont, 5m Chamber B

VERTICAL EART TEST

18 Nov 2014 20:35:29

Bandedge
Project Number: 14U19262
Client: Samsung
Config: EUT with AC adapter + HS
Mode: UNII 5.8 11a HT20 5745 U
Tested by: D. Stoelting / D. Splendorio

Peak Limit (dBm)

EIRP

Frequency (GHz)

Range (GHz) Det Res BW Ref Typ Sweep Pts #Seps/Mode Position
5.625-5.755 (Peak) 100 (4000) 00 Full Auto (7000) 1000 100 (4000000) (47 steps)

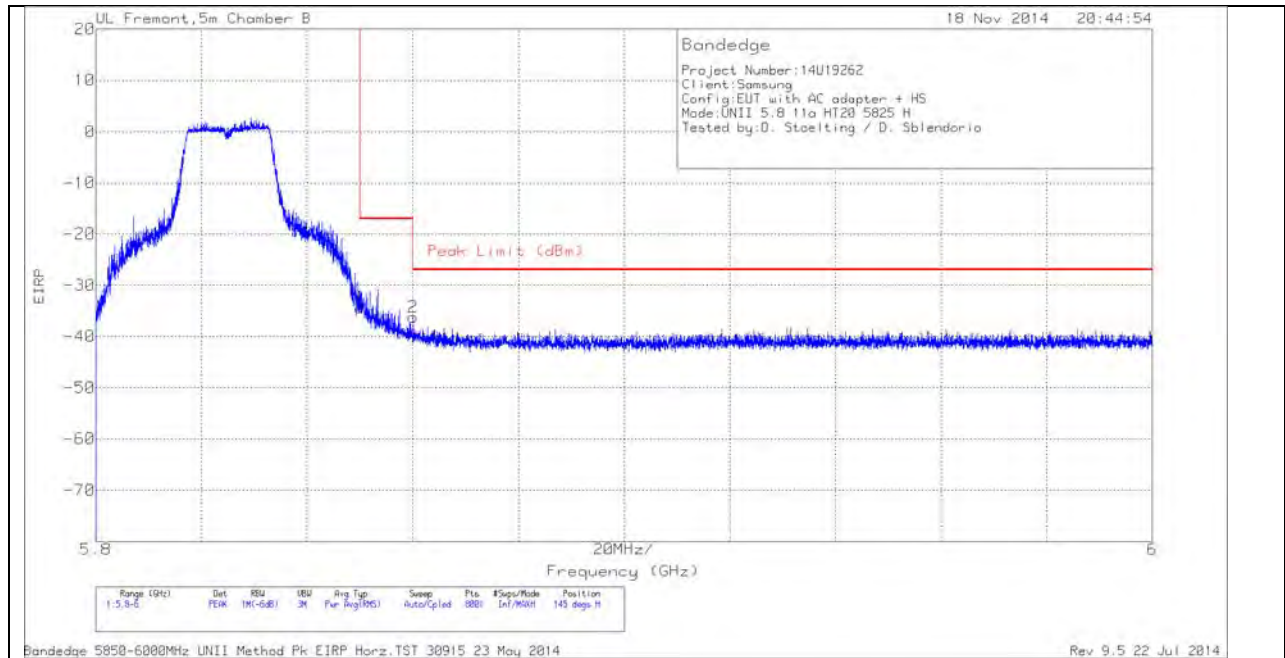
Bandedge 5625-5755MHz UNII Method Pk EIRP Unit: dBm 15:23:23 23 Mar 2014

Rev 9.5 22 Jul 2014

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-47.28	PK	34.6	-20.1	11.8	0	-20.98	-17	-3.98	247	256	V
2	5.725	-44.12	PK	34.6	-20.1	11.8	0	-17.82	-17	-.82	247	256	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

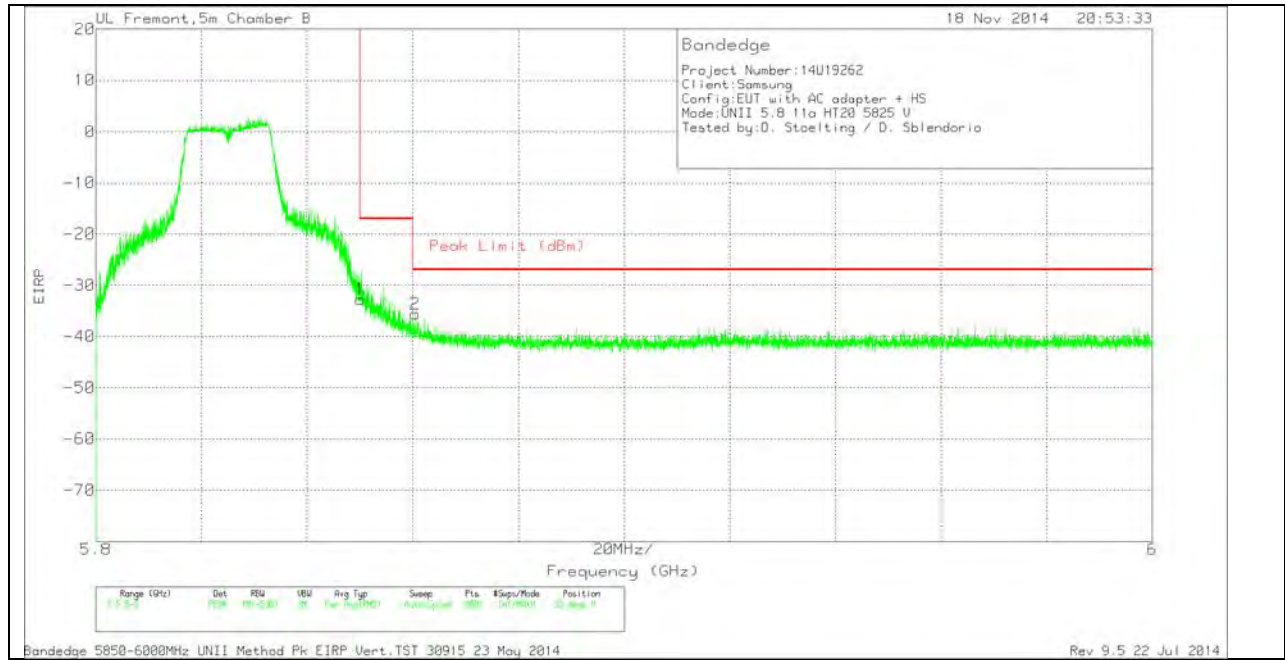
HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (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	-61.08	PK	34.8	-19.9	11.8	0	-34.38	-27	-7.38	145	258	H
2	5.86	-62.94	PK	34.8	-19.9	11.8	0	-36.24	-27	-9.24	145	258	H

VERTICAL PEAK PLOT

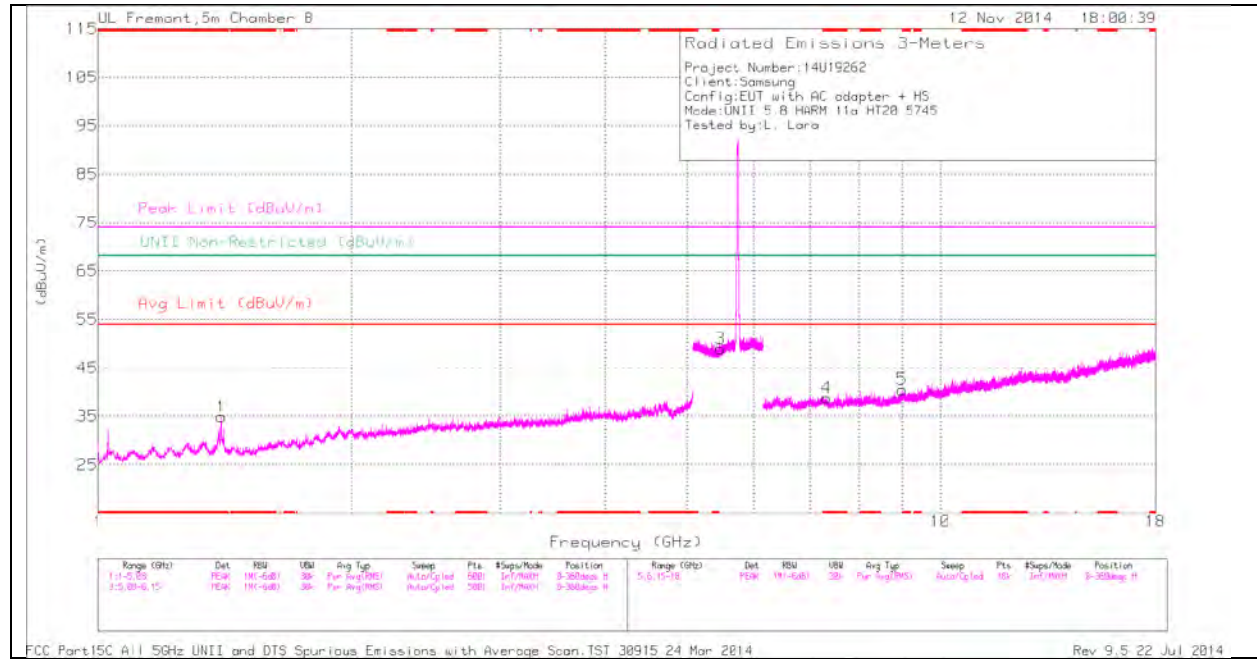


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/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	-59.53	PK	34.8	-19.9	11.8	0	-32.83	-27	-5.83	33	257	V
2	5.86	-62.3	PK	34.8	-19.9	11.8	0	-35.6	-27	-8.6	33	257	V

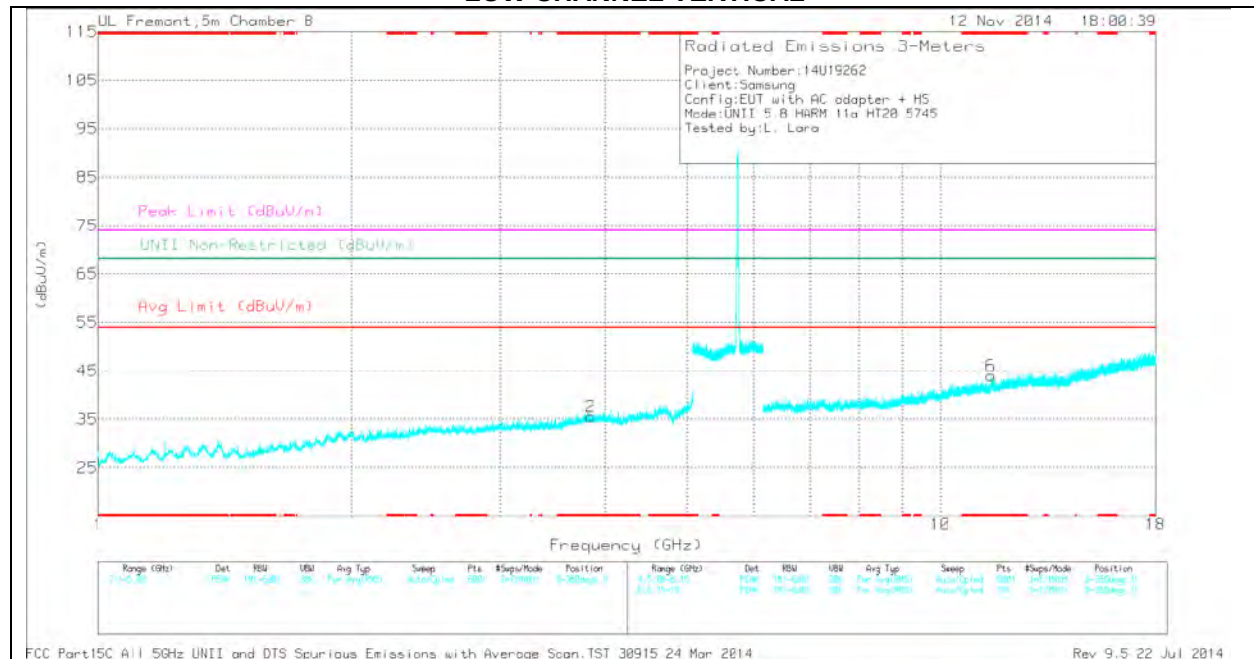
HARMONICS AND SPURIOUS EMISSIONS

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 T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.401	40.28	PK	28.5	-33.8	0	34.98	-	-	74	-39.02	-	-	0-360	100	H
2	* 3.845	33.28	PK	33.7	-31.4	0	35.58	-	-	74	-38.42	-	-	0-360	200	V
4	* 7.319	31.57	PK	35.6	-28.3	0	38.87	-	-	74	-35.13	-	-	0-360	101	H
5	* 9.005	29.77	PK	36.2	-25.4	0	40.57	-	-	74	-33.43	-	-	0-360	101	H
6	* 11.484	28.92	PK	38	-22.9	0	44.02	-	-	74	-29.98	-	-	0-360	199	V
3	5.475	34.79	PK	34.5	-20.3	0	48.99	-	-	-	-	68.2	-19.21	0-360	199	H

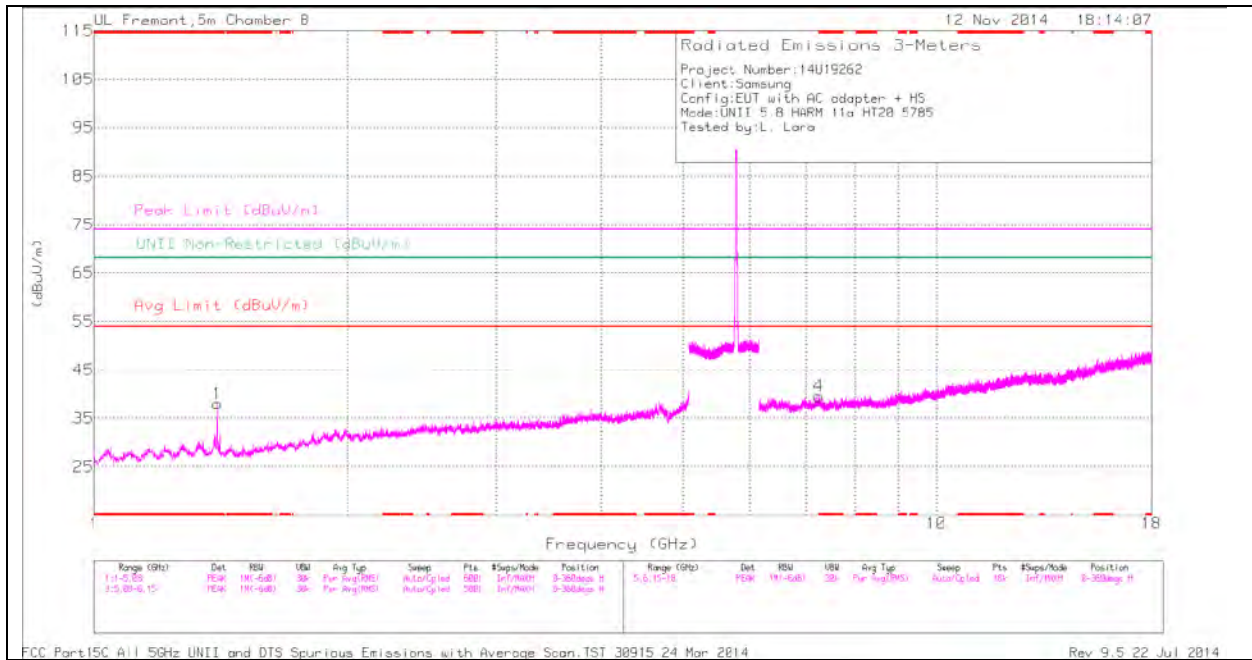
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.399	46.42	PK1	28.5	-33.8	0	41.12	-	-	74	-32.88	-	-	360	101	H
* 1.4	32.02	AD1	28.5	-33.8	.31	27.03	54	-26.97	-	-	-	-	360	101	H
* 11.482	36.62	PK1	38	-23	0	51.62	-	-	74	-22.38	-	-	360	199	V
* 11.486	24.83	AD1	38	-22.9	.31	40.24	54	-13.76	-	-	-	-	360	199	V

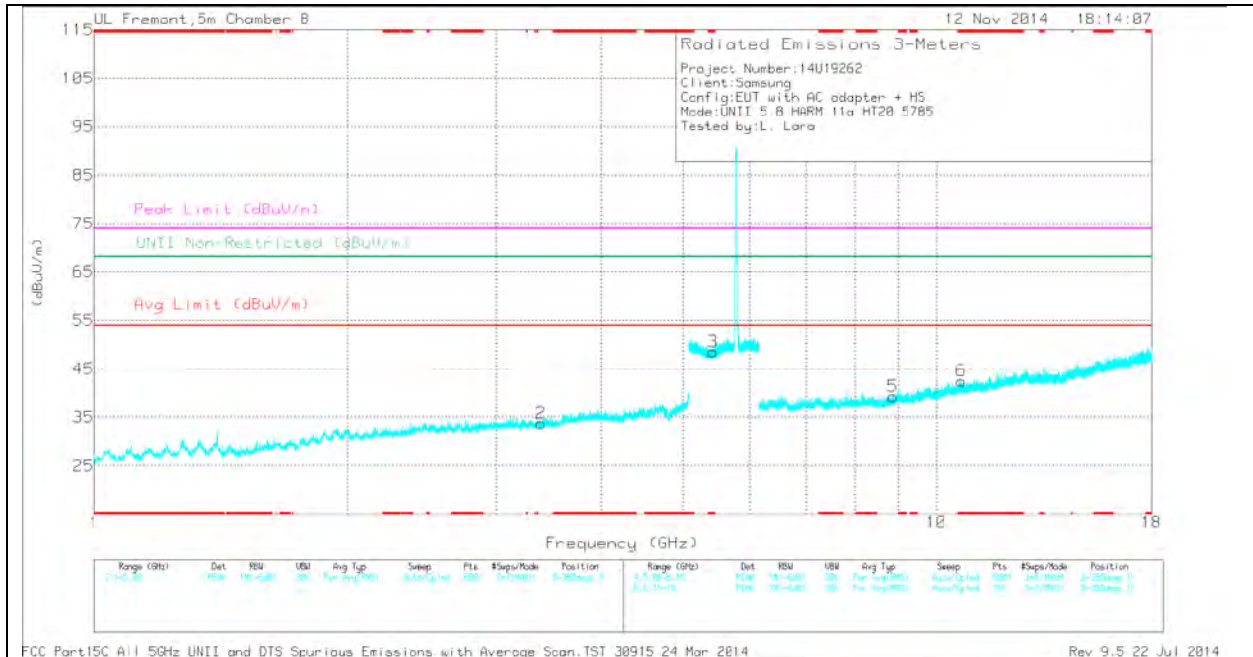
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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/Fr Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.401	43.33	PK	28.5	-33.8	0	38.03	-	-	74	-35.97	-	-	0-360	101	H
3	* 5.428	34.3	PK	34.5	-20.3	0	48.5	-	-	74	-25.5	-	-	0-360	101	V
6	* 10.701	27.92	PK	37.8	-23.2	0	42.52	-	-	74	-31.48	-	-	0-360	200	V
2	3.39	32.42	PK	32.8	-31.5	0	33.72	-	-	-	-	68.2	-34.48	0-360	200	V
4	7.244	30.44	PK	35.6	-26.4	0	39.64	-	-	-	-	68.2	-28.56	0-360	101	H
5	8.875	29.12	PK	36.1	-25.9	0	39.32	-	-	-	-	68.2	-28.88	0-360	101	V

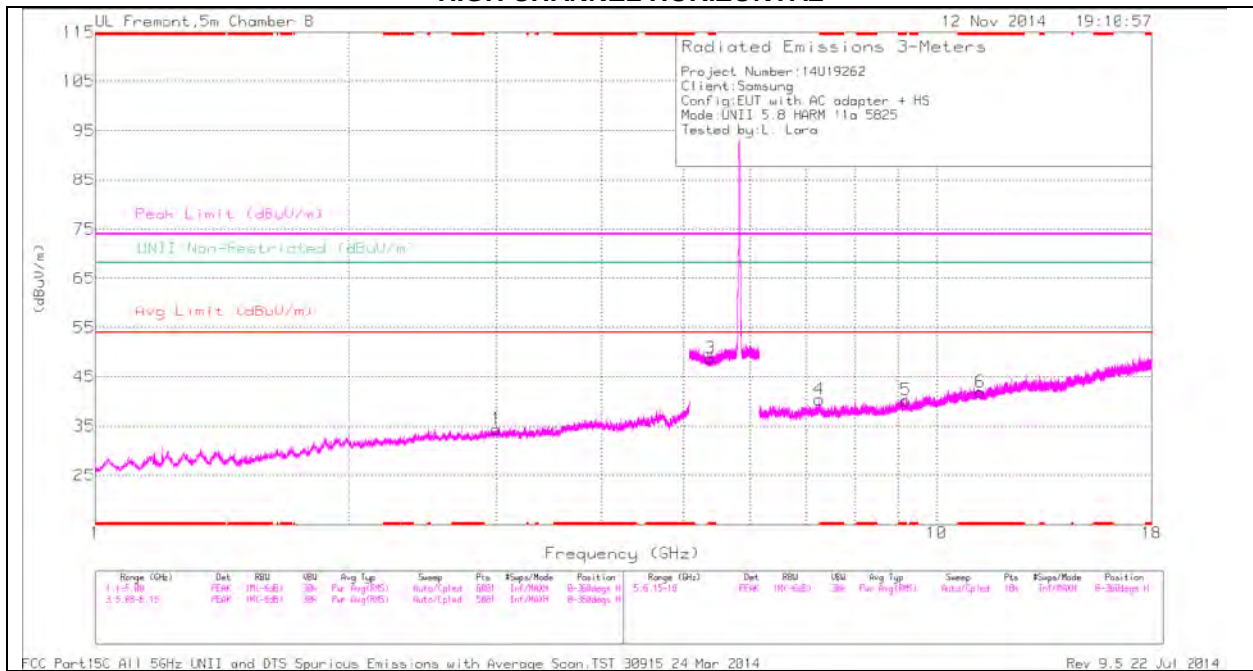
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fr tr/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	45.45	PK1	28.5	-33.8	0	40.15	-	-	74	-33.85	-	-	360	101	H
* 1.4	31.78	AD1	28.5	-33.8	.32	26.79	54	-27.21	-	-	-	-	360	101	H
* 10.701	34.71	PK1	37.8	-23.2	0	49.31	-	-	74	-24.69	-	-	360	200	V
* 10.702	23.85	AD1	37.8	-23.2	.32	38.76	54	-15.24	-	-	-	-	360	200	V

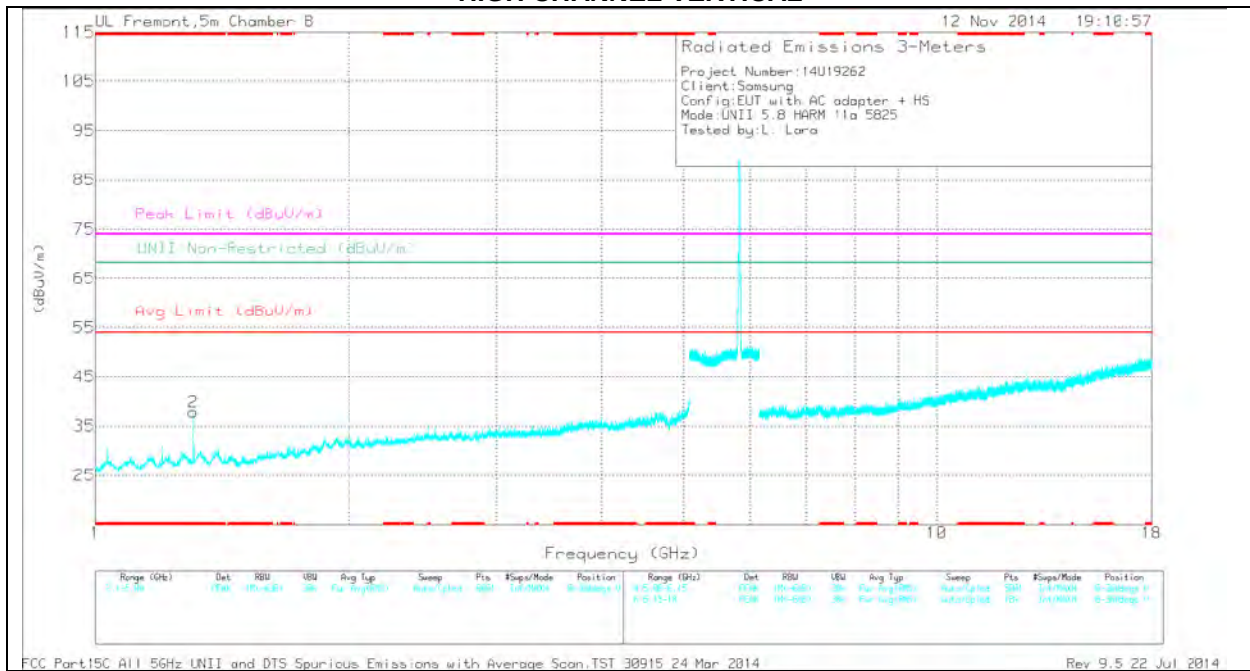
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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 T34S (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	* 1.306	43.11	PK	28.8	-34.1	0	37.81	-	-	74	-36.19	-	-	0-360	199	V
3	* 5.386	34.48	PK	34.5	-20.2	0	48.78	-	-	74	-25.22	-	-	0-360	199	H
5	* 9.191	29	PK	36.3	-25	0	40.3	-	-	74	-33.7	-	-	0-360	199	H
6	* 11.27	26.71	PK	38	-22.8	0	41.91	-	-	74	-32.09	-	-	0-360	199	H
1	2.998	33.58	PK	32.8	-32	0	34.38	-	-	-	-	68.2	-33.82	0-360	199	H
4	7.249	31.34	PK	35.6	-26.5	0	40.44	-	-	-	-	68.2	-27.76	0-360	101	H

PK - Peak detector

RADIATED EMISSIONS

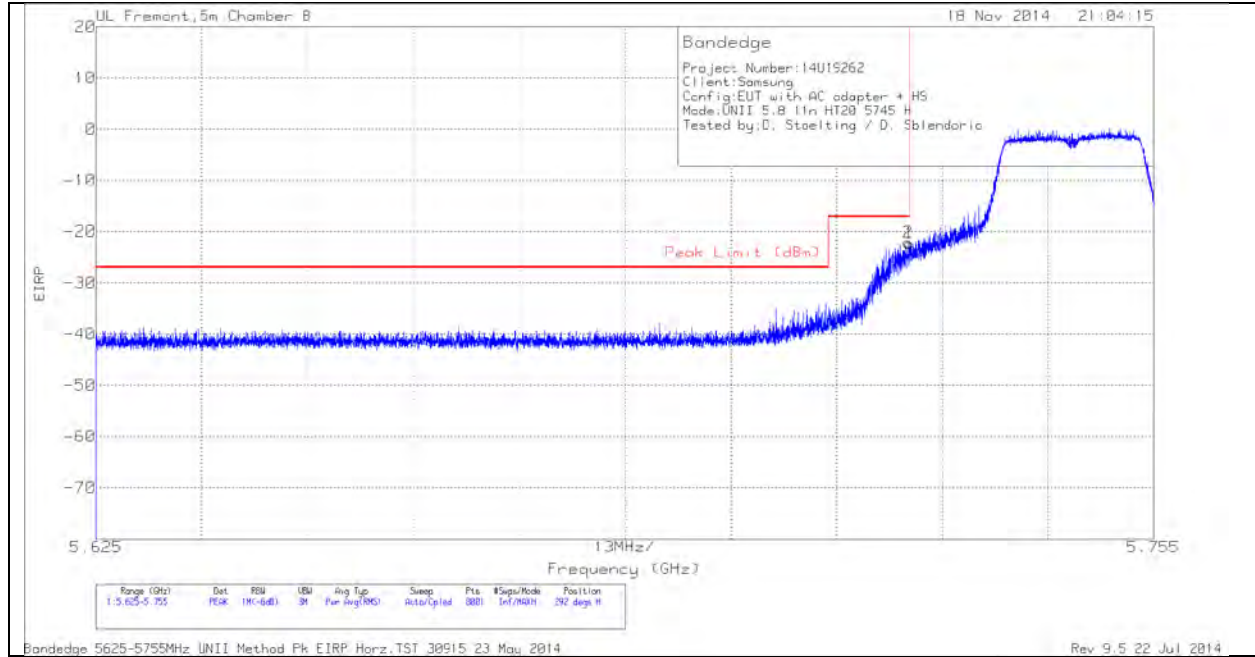
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.305	41.9	PK1	28.8	-34.1	0	36.6	-	-	74	-37.4	-	-	360	199	V
* 1.308	30.27	AD1	28.8	-34.1	.32	25.28	54	-28.72	-	-	-	-	360	199	V
* 11.27	34.53	PK1	38	-22.8	0	49.73	-	-	74	-24.27	-	-	360	199	H
* 11.27	23.93	AD1	38	-22.8	.32	39.44	54	-14.56	-	-	-	-	360	199	H

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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

RESTRICTED BANDEDGE (LOW CHANNEL)

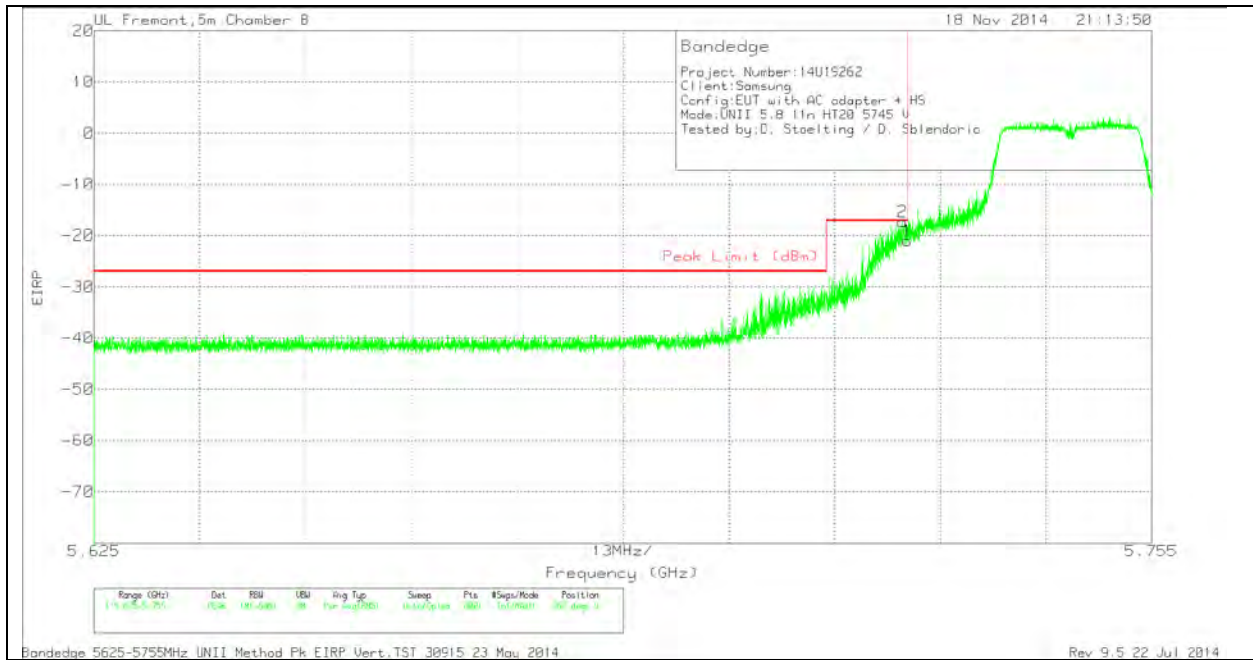
HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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	5.725	-48.59	PK	34.6	-20.1	11.8	0	-22.29	-17	-5.29	292	255	H
2	5.725	-48.38	PK	34.6	-20.1	11.8	0	-22.08	-17	-5.08	292	255	H

VERTICAL PEAK PLOT

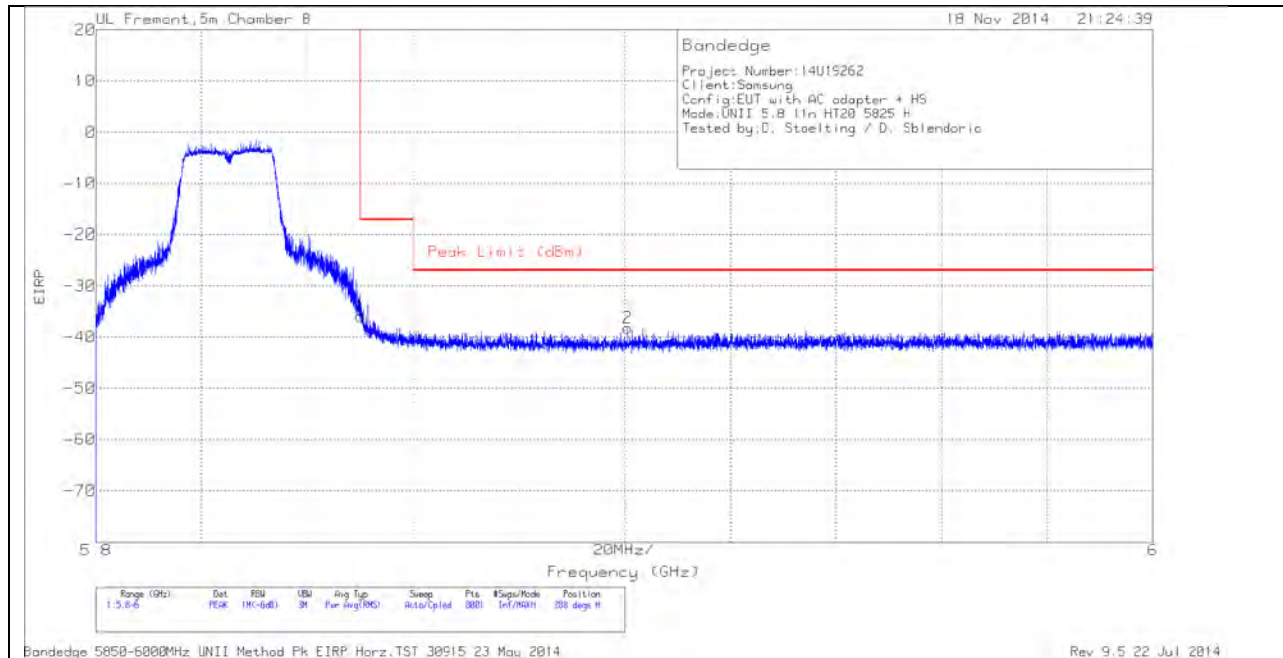


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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
2	5.724	-43.65	PK	34.6	-20.1	11.8	0	-17.35	-17	-35	262	306	V
1	5.725	-47.24	PK	34.6	-20.1	11.8	0	-20.94	-17	-3.94	262	306	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

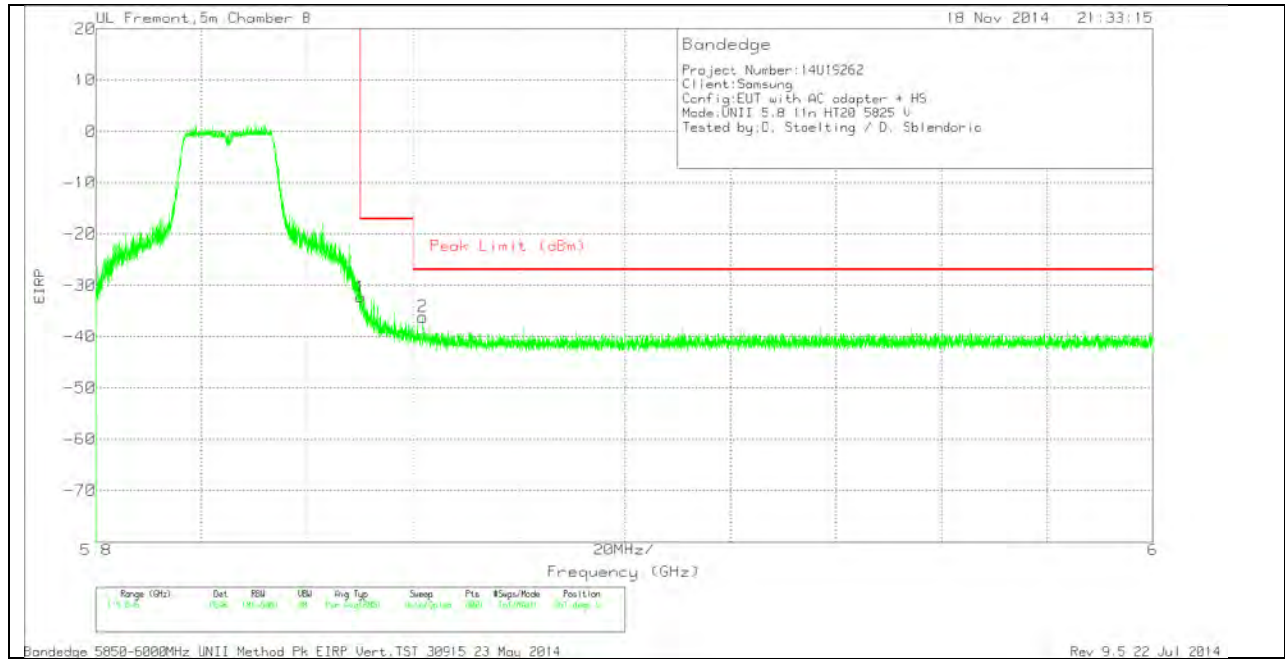
HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (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	-62.55	PK	34.8	-19.9	11.8	0	-35.85	-27	-8.85	288	249	H
2	5.901	-65.04	PK	34.9	-19.8	11.8	0	-38.14	-27	-11.14	288	249	H

VERTICAL PEAK PLOT

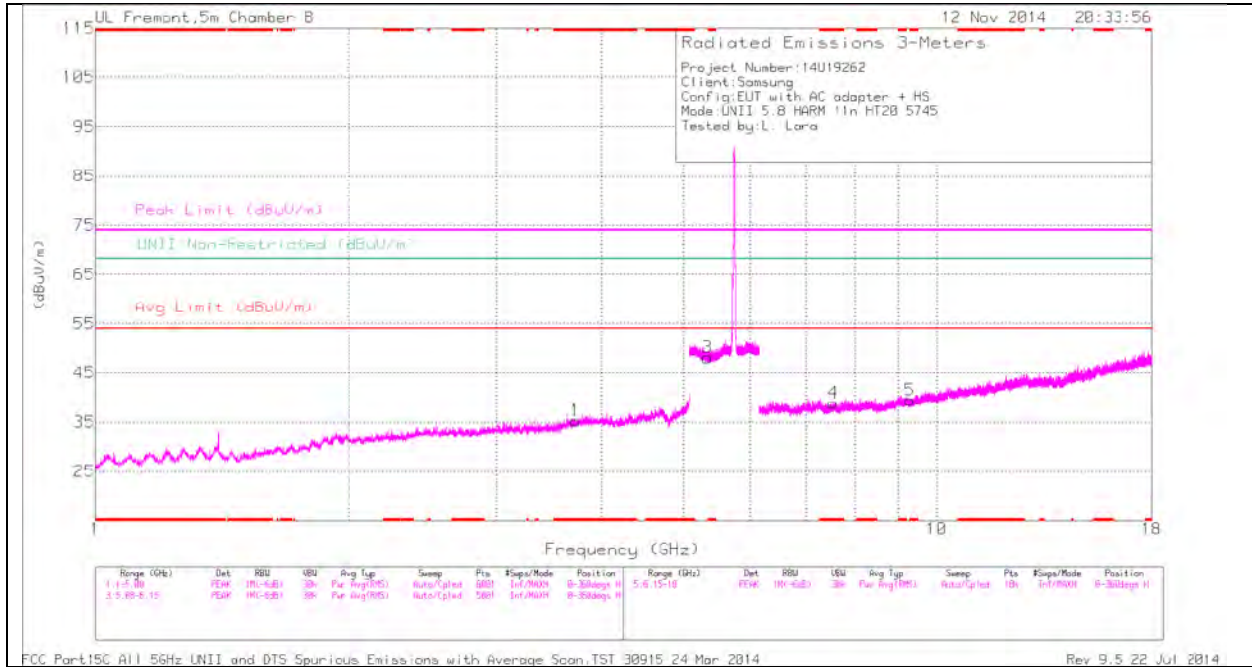


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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
1	5.85	-59	PK	34.8	-19.9	11.8	0	-32.3	-27	-5.3	261	269	V
2	5.862	-62.85	PK	34.8	-19.9	11.8	0	-36.15	-27	-9.15	261	269	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.

UL Fremont, 5m Chamber B

12 Nov 2014 20:33:56

Radiated Emissions 3-Meters

Project Number: 14U19262
 Client: Samsung
 Config: EUT with AC adapter + HS
 Mode: UNII 5.8 HARM 11n HT20 5745
 Tested by: L. Lara

Peak Limit (dBuV/m)

UNII Non-Restricted (dBuV/m)

Avg Limit (dBuV/m)

(dBuV/m)

Frequency (GHz)

Range (GHz)	Det	RBW	VBW	Avg Type	Sweep	PLS	#Seps/Mode	Position	Range (GHz)	Det	RBW	VBW	Avg Type	Sweep	PLS	#Seps/Mode	Position
5.0-5.8	Peak	100kHz	300	Pk-Avg(ENF)	Auto (1/2)	50dB	10-300kHz	W-300kHz	5.0-5.8	Peak	100kHz	300	Pk-Avg(ENF)	Auto (1/2)	50dB	10-300kHz	W-300kHz
5.8-13.8	Peak	100kHz	300	Pk-Avg(ENF)	Auto (1/2)	50dB	10-300kHz	W-300kHz	5.8-13.8	Peak	100kHz	300	Pk-Avg(ENF)	Auto (1/2)	50dB	10-300kHz	W-300kHz

FCC Part 15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 24 Mar 2014

Rev 9.5 22 Jul 2014

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 T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.719	33.29	PK	33.4	-31.4	0	35.29	-	-	74	-38.71	-	-	0-360	200	H
2	* 1.401	38.49	PK	28.5	-33.8	0	33.19	-	-	74	-40.81	-	-	0-360	200	V
4	* 7.538	29.97	PK	35.6	-26.7	0	38.87	-	-	74	-35.13	-	-	0-360	200	H
6	* 11.501	29.15	PK	38	-22.8	0	44.35	-	-	74	-29.65	-	-	0-360	200	V
3	5.338	33.81	PK	34.5	-20.2	0	48.11	-	-	-	-	68.2	-20.09	0-360	101	H
5	9.297	28.57	PK	36.4	-25.5	0	39.47	-	-	-	-	68.2	-28.73	0-360	101	H

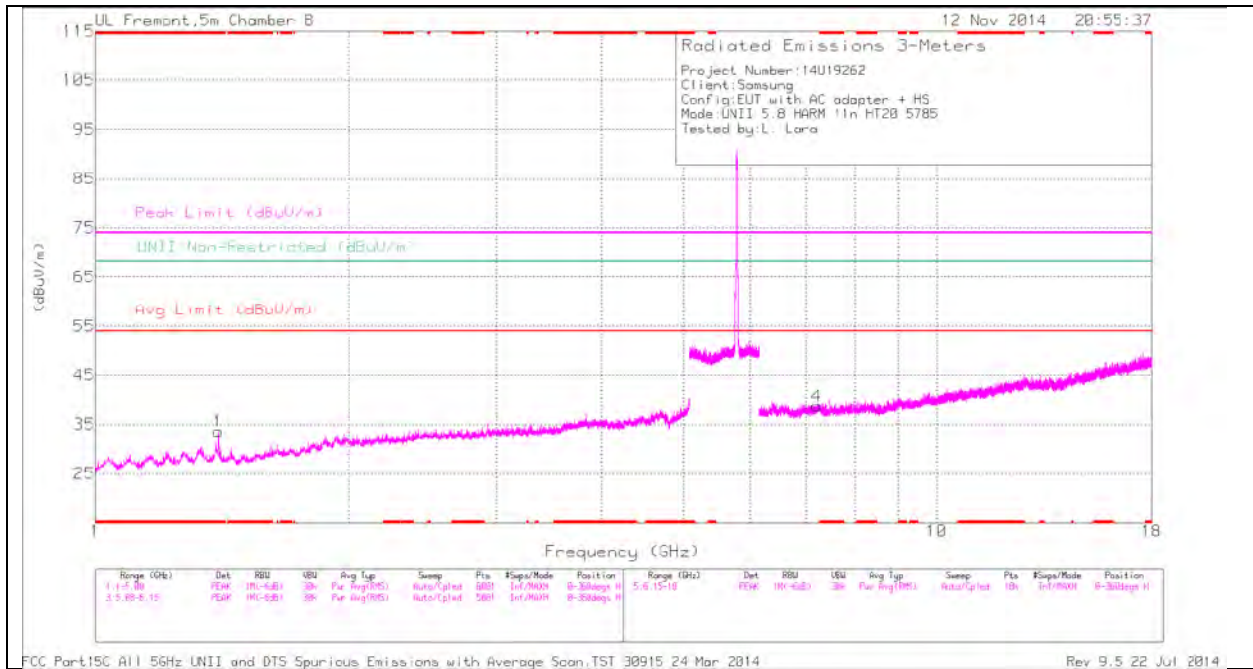
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.4	43.79	PK1	28.5	-33.8	0	38.49	-	-	74	-35.51	-	-	360	199	V
* 1.399	31.59	AD1	28.5	-33.8	.34	26.62	54	-27.38	-	-	-	-	360	199	V
* 11.5	38.22	PK1	38	-22.9	0	53.32	-	-	74	-20.68	-	-	360	199	V
* 11.499	24.82	AD1	38	-22.9	.34	40.25	54	-13.75	-	-	-	-	360	199	V

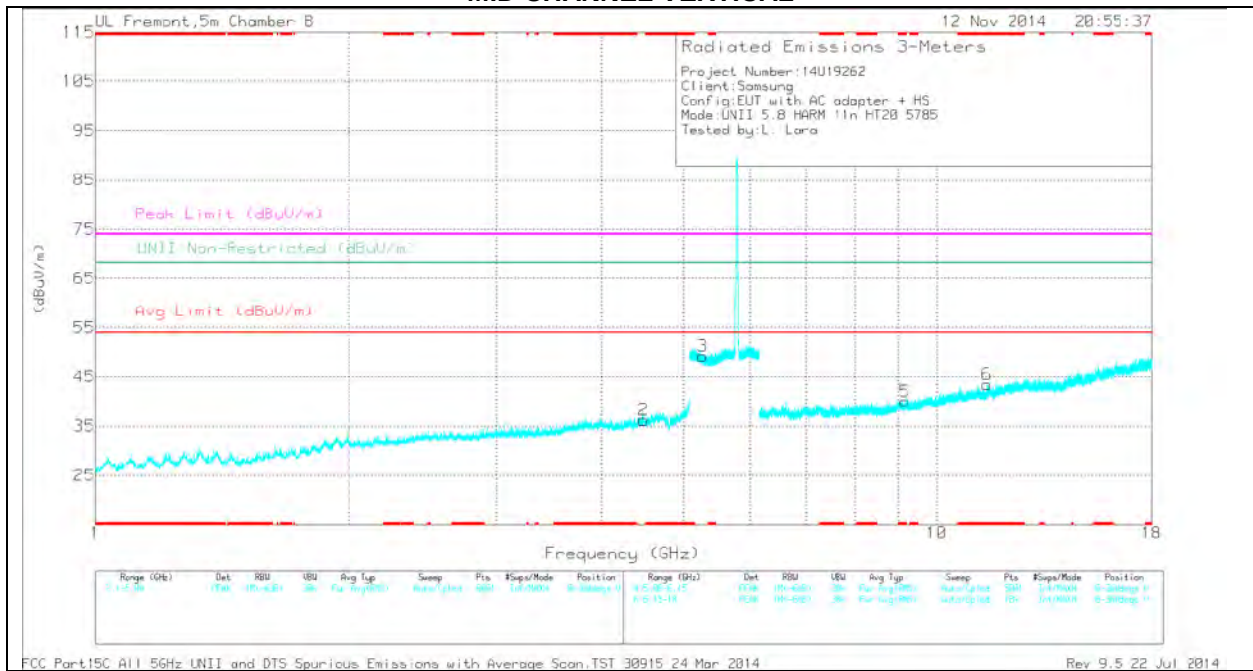
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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/Fr Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	38.87	PK	28.5	-33.8	0	33.57	-	-	74	-40.43	-	-	0-360	200	H
5	* 9.162	28.98	PK	36.3	-25.3	0	39.98	-	-	74	-34.02	-	-	0-360	101	V
6	* 11.482	28.45	PK	38	-23	0	43.45	-	-	74	-30.55	-	-	0-360	101	V
2	4.483	32.13	PK	34	-29.9	0	36.23	-	-	-	-	68.2	-31.97	0-360	101	V
3	5.276	35.1	PK	34.4	-20.3	0	49.2	-	-	-	-	68.2	-19	0-360	199	V
4	7.208	29.88	PK	35.5	-26.7	0	38.68	-	-	-	-	68.2	-29.52	0-360	101	H

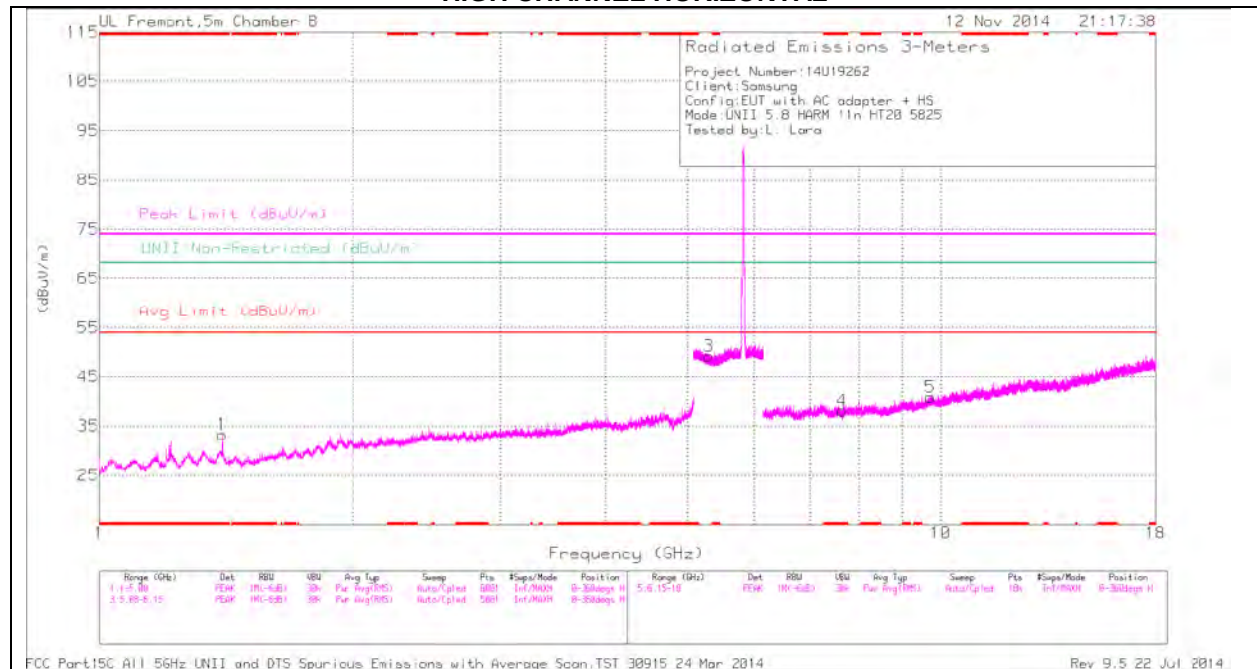
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fr tr/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	45.77	PK1	28.5	-33.8	0	40.47	-	-	74	-33.53	-	-	359	200	H
* 1.398	31.75	AD1	28.5	-33.8	.34	26.78	54	-27.22	-	-	-	-	359	200	H
* 11.483	35.74	PK1	38	-23	0	50.74	-	-	74	-23.26	-	-	359	102	V
* 11.481	24.13	AD1	38	-23	.34	39.46	54	-14.54	-	-	-	-	359	102	V

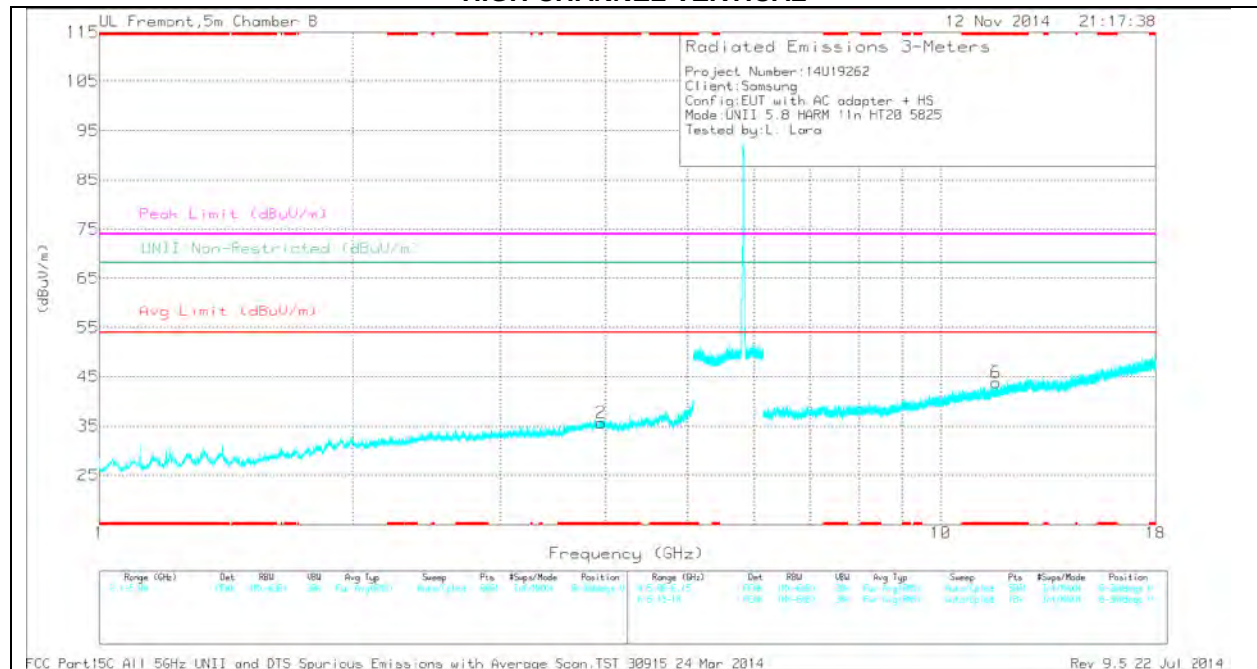
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

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 T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	38.53	PK	28.5	-33.8	0	33.23	-	-	74	-40.77	-	-	0-360	102	H
2	* 3.952	32.53	PK	33.7	-30.6	0	35.63	-	-	74	-38.37	-	-	0-360	200	V
4	* 7.632	30.1	PK	35.7	-27.7	0	38.1	-	-	74	-35.9	-	-	0-360	200	H
6	* 11.65	28.73	PK	38.1	-23	0	43.83	-	-	74	-30.17	-	-	0-360	200	V
3	5.303	35.01	PK	34.4	-20.2	0	49.21	-	-	-	-	68.2	-18.99	0-360	200	H
5	9.715	28.46	PK	36.9	-24.5	0	40.86	-	-	-	-	68.2	-27.34	0-360	101	H

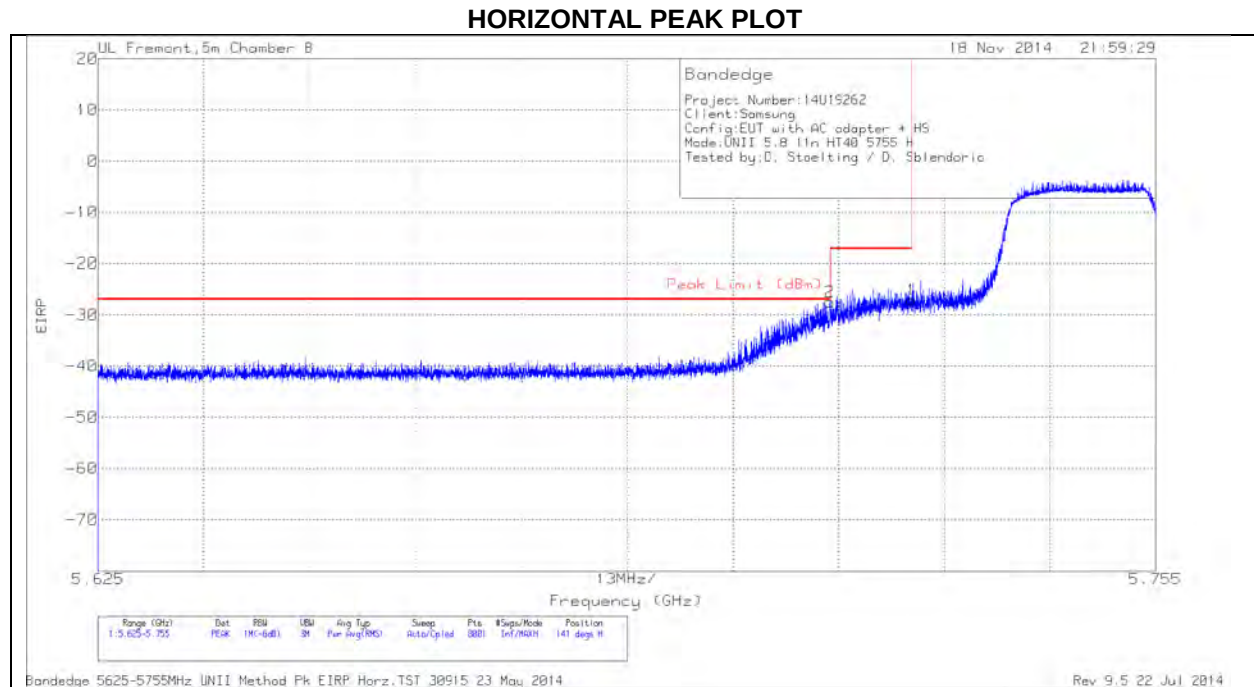
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.4	45.61	PK1	28.5	-33.8	0	40.31	-	-	74	-33.69	-	-	359	101	H
* 1.4	31.74	AD1	28.5	-33.8	.34	26.77	54	-27.23	-	-	-	-	359	101	H
* 11.651	35.55	PK1	38.2	-23.1	0	50.65	-	-	74	-23.35	-	-	359	200	V
* 11.65	24.78	AD1	38.1	-23	.34	40.21	54	-13.79	-	-	-	-	359	200	V

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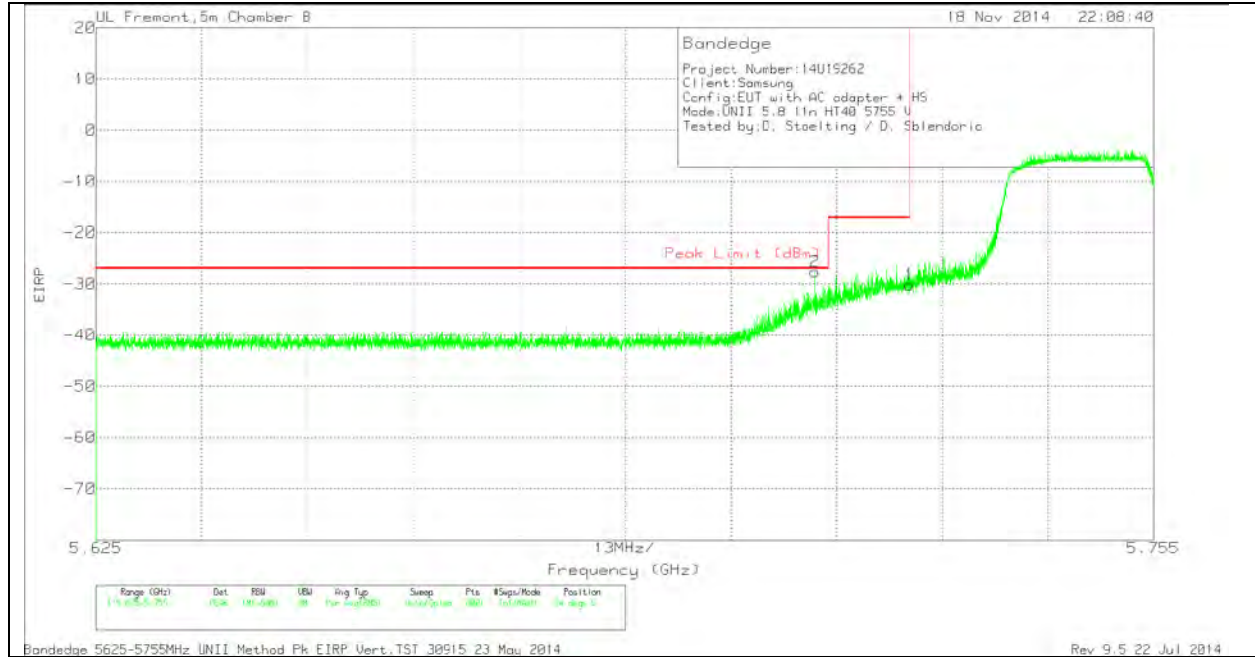
10.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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
2	5.715	-53.75	PK	34.5	-20.1	11.8	0	-27.55	-27	-5.5	141	392	H
1	5.725	-53.4	PK	34.6	-20.1	11.8	0	-27.1	-17	-10.1	141	392	H

VERTICAL PEAK PLOT

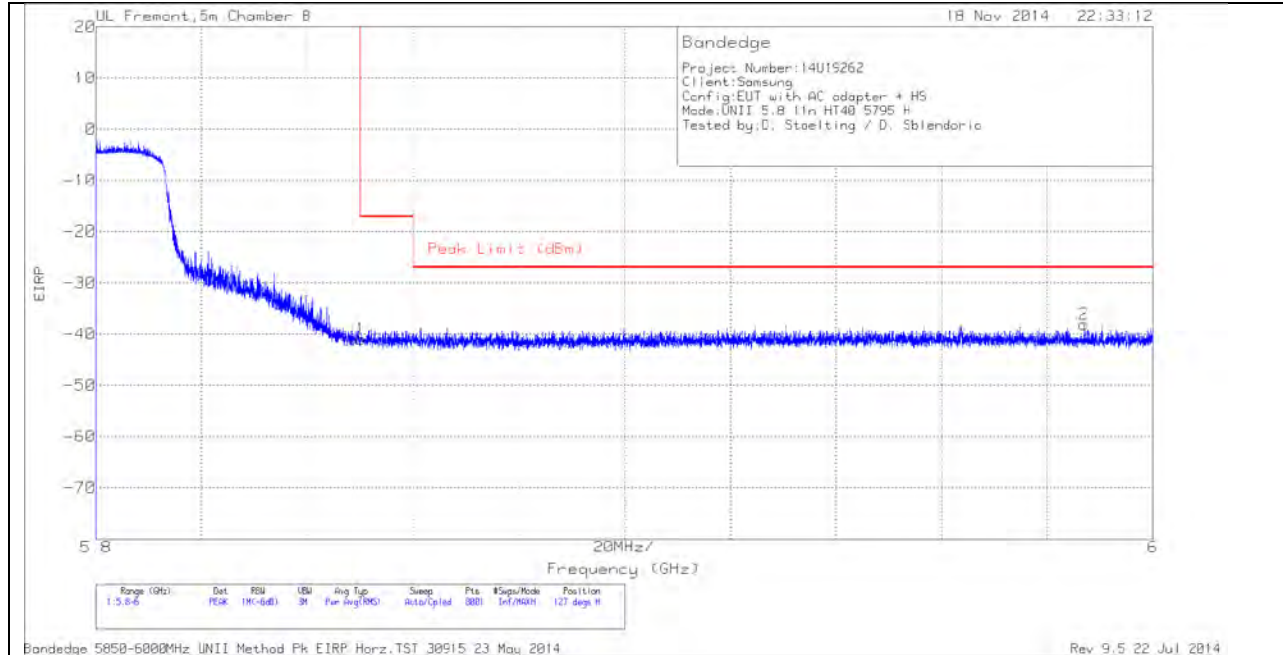


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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	5.713	-53.77	PK	34.5	-20.1	11.8	0	-27.57	-27	-.57	24	220	V
1	5.725	-56.51	PK	34.6	-20.1	11.8	0	-30.21	-17	-13.21	24	220	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

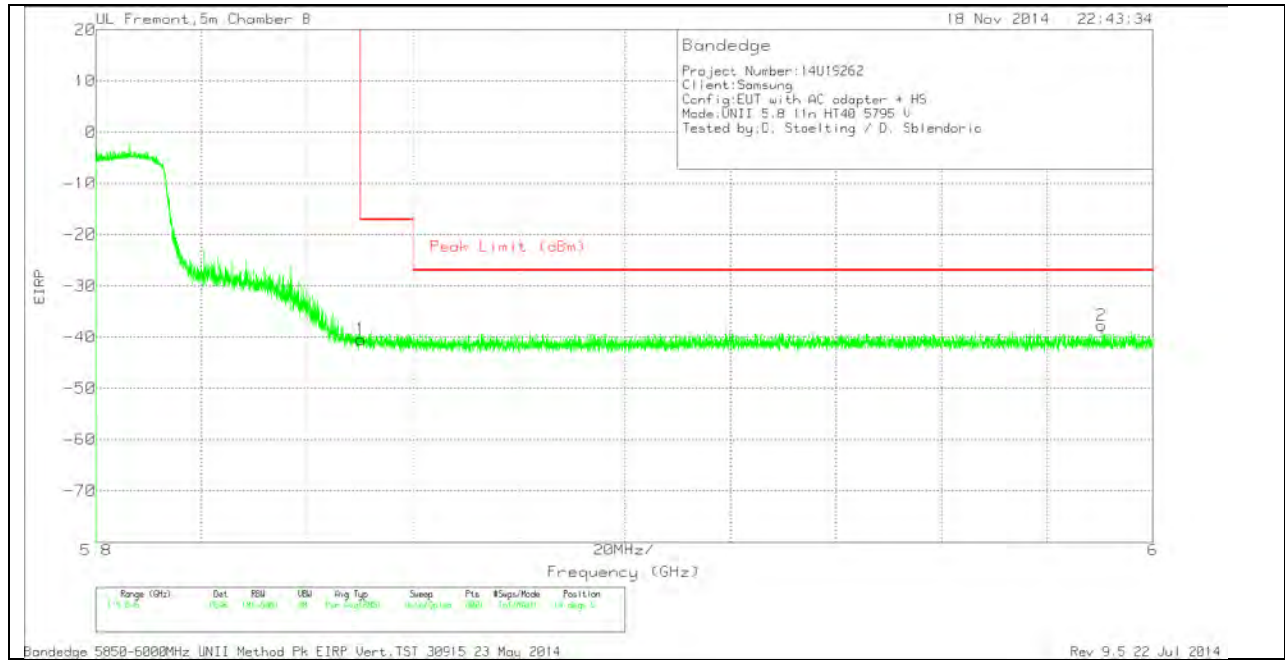
HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (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	-67.74	PK	34.8	-19.9	11.8	0	-41.04	-27	-14.04	127	225	H
2	5.987	-65.44	PK	35.2	-19.6	11.8	0	-38.04	-27	-11.04	127	225	H

VERTICAL PEAK PLOT

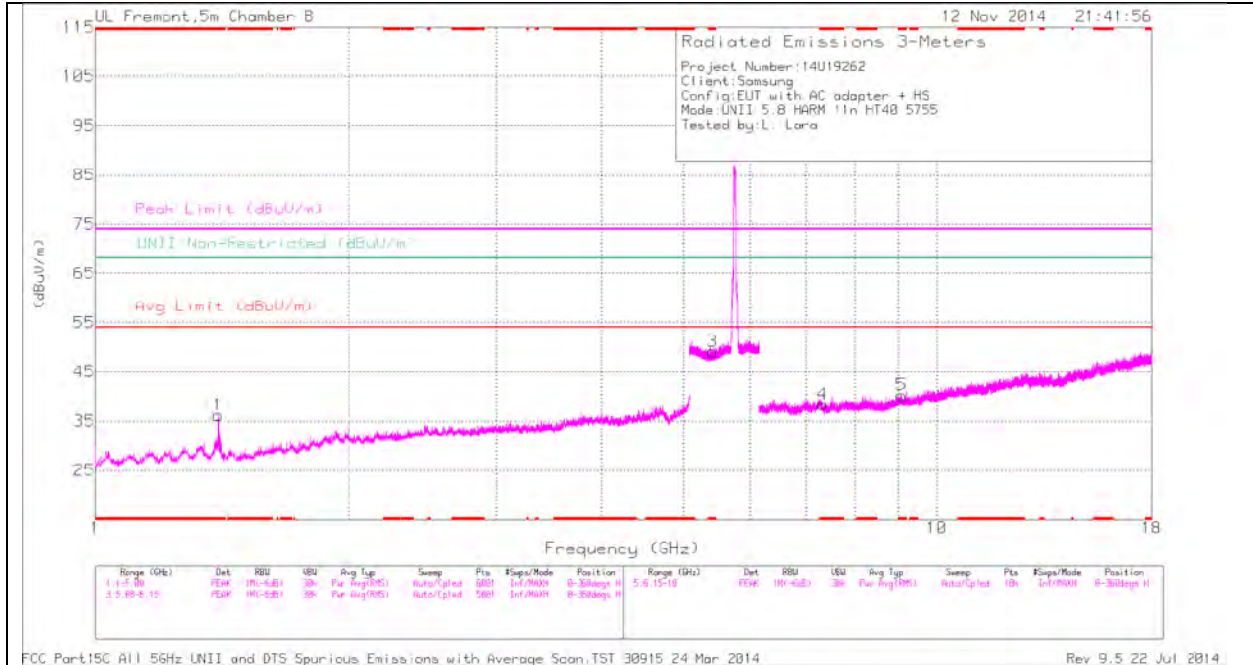


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (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	-67.15	PK	34.8	-19.9	11.8	0	-40.45	-27	-13.45	14	321	V
2	5.99	-65.04	PK	35.2	-19.6	11.8	0	-37.64	-27	-10.64	14	321	V

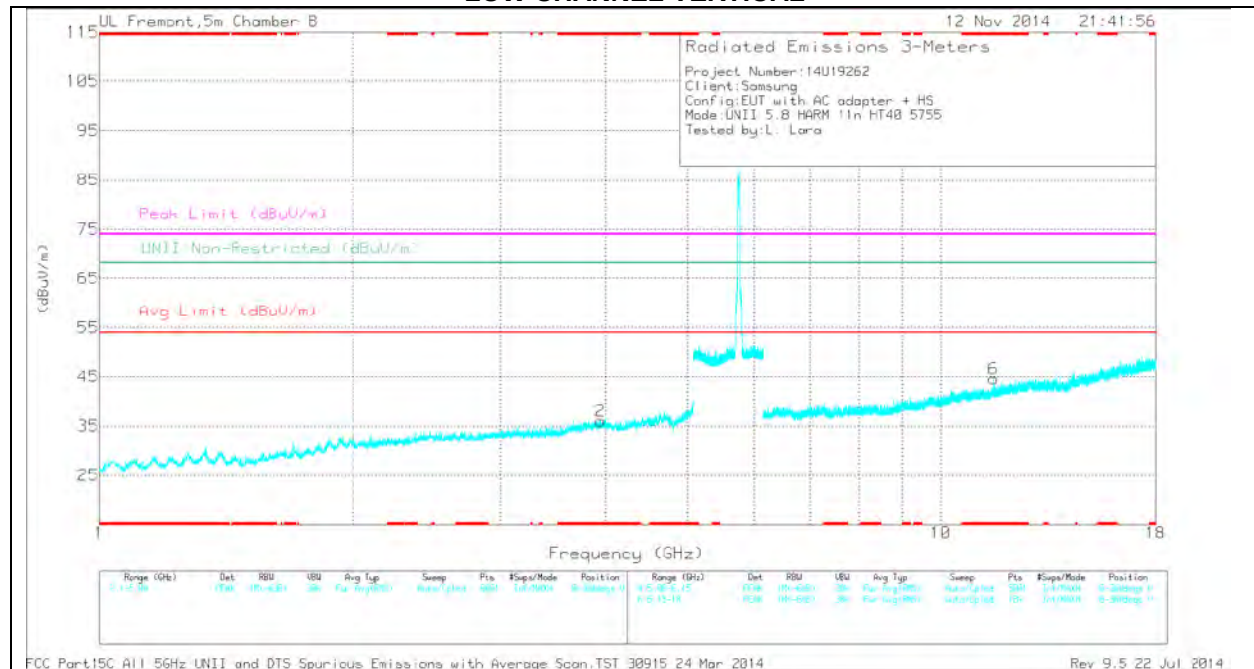
HARMONICS AND SPURIOUS EMISSIONS

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 T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.4	41.52	PK	28.5	-33.8	0	36.22	-	-	74	-37.78	-	-	0-360	199	H
2	* 3.942	33.22	PK	33.7	-30.9	0	36.02	-	-	74	-37.98	-	-	0-360	199	V
3	* 5.411	34.83	PK	34.5	-20.2	0	49.13	-	-	74	-24.87	-	-	0-360	200	H
4	* 7.315	30.97	PK	35.6	-28.2	0	38.37	-	-	74	-35.63	-	-	0-360	101	H
5	* 9.079	29.49	PK	36.3	-25.5	0	40.29	-	-	74	-33.71	-	-	0-360	199	H
6	* 11.558	28.76	PK	38.1	-22.3	0	44.56	-	-	74	-29.44	-	-	0-360	199	V

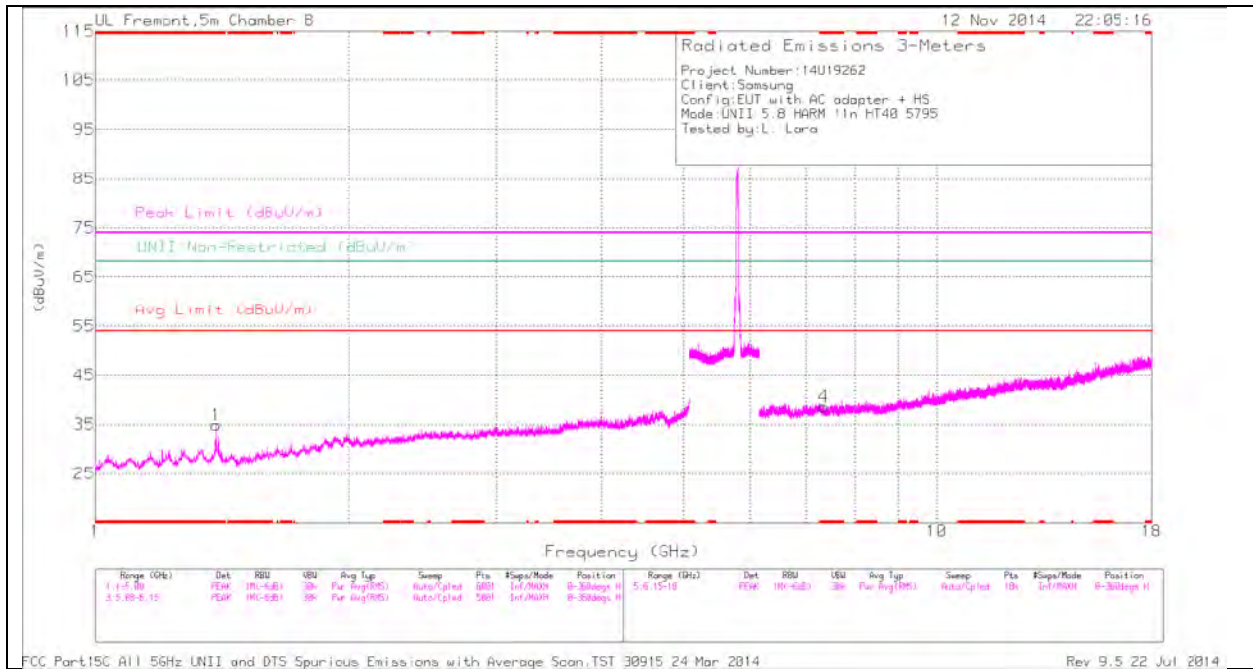
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.4	46.83	PK1	28.5	-33.8	0	41.53	-	-	74	-32.47	-	-	360	199	H
* 1.4	31.67	AD1	28.5	-33.8	.66	27.07	54	-26.93	-	-	-	-	360	199	H
* 11.558	34.74	PK1	38.1	-22.3	0	50.54	-	-	74	-23.46	-	-	360	199	V
* 11.556	23.85	AD1	38.1	-22.4	.66	40.25	54	-13.75	-	-	-	-	360	199	V

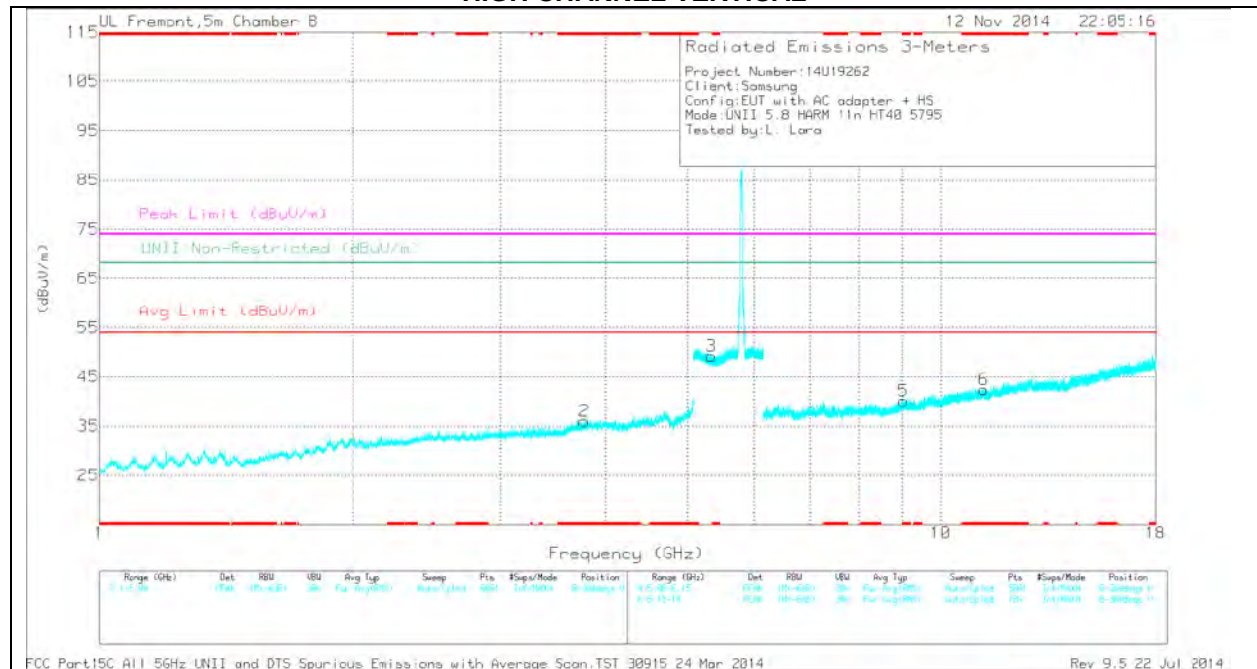
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HIGH CHANNEL HORIZONTAL



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 T34S (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.392	40.04	PK	28.5	-33.7	0	34.84	-	-	74	-39.16	-	-	0-360	101	H
2	* 3.768	33.53	PK	33.5	-31	0	36.03	-	-	74	-37.97	-	-	0-360	101	V
4	* 7.338	31.61	PK	35.6	-28.6	0	38.61	-	-	74	-35.39	-	-	0-360	199	H
5	* 9.024	29.29	PK	36.2	-25.4	0	40.09	-	-	74	-33.91	-	-	0-360	200	V
6	* 11.252	26.97	PK	37.9	-22.5	0	42.37	-	-	74	-31.63	-	-	0-360	200	V
3	5.338	34.9	PK	34.5	-20.2	0	49.2	-	-	-	-	68.2	-19	0-360	101	V

PK - Peak detector

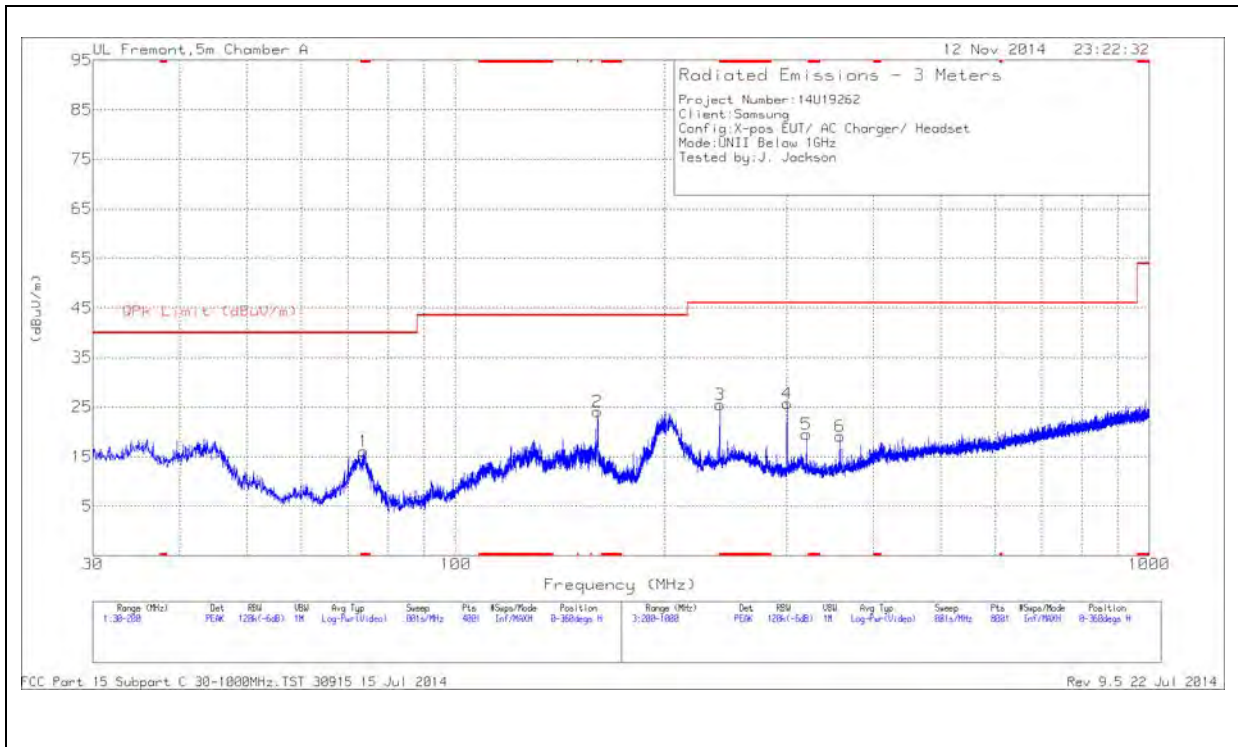
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Fil tr/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
* 1.391	43.53	PK1	28.5	-33.7	0	38.33	-	-	74	-35.67	-	-	360	101	H
* 1.393	31.75	AD1	28.5	-33.7	.66	27.25	54	-26.75	-	-	-	-	360	101	H
* 11.253	34.58	PK1	37.9	-22.5	0	49.98	-	-	74	-24.02	-	-	360	200	V
* 11.253	23.67	AD1	37.9	-22.5	.66	39.77	54	-14.23	-	-	-	-	360	200	V

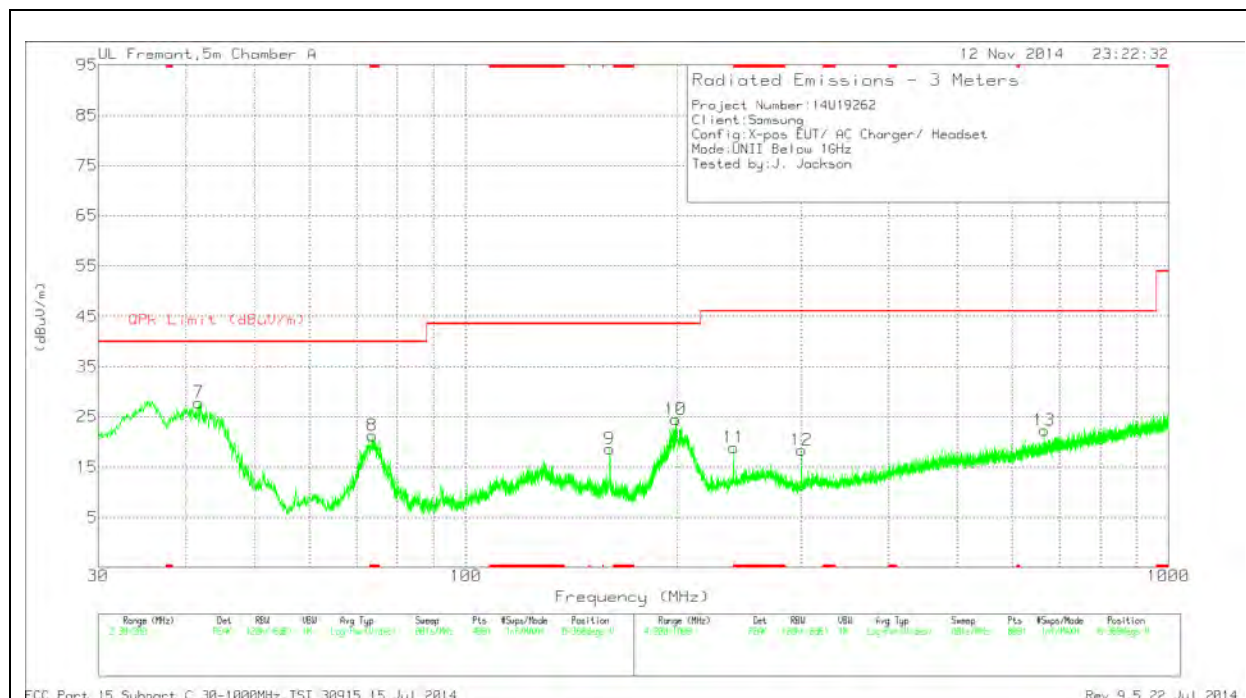
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11. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

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



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



BELOW 1 GHz TABLE

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 73.6475	39.31	PK	7.8	-31	16.11	40	-23.89	0-360	400	H
8	* 73.605	44.36	PK	7.9	-31	21.26	40	-18.74	0-360	101	V
3	* 240.3	43.58	PK	11.5	-29.6	25.48	46.02	-20.54	0-360	200	H
11	* 240.3	37.01	PK	11.5	-29.6	18.91	46.02	-27.11	0-360	101	V
7	41.73	45.82	PK	12.9	-30.9	27.82	40	-12.18	0-360	101	V
9	160.1775	36.76	PK	12	-30.1	18.66	43.52	-24.86	0-360	101	V
2	160.22	42.16	PK	12	-30.1	24.06	43.52	-19.46	0-360	200	H
10	199.065	41.89	PK	12.5	-29.9	24.49	43.52	-19.03	0-360	101	V
4	300.4	41.57	PK	13.4	-29.2	25.77	46.02	-20.25	0-360	101	H
12	300.4	34.13	PK	13.4	-29.2	18.33	46.02	-27.69	0-360	101	V
5	320.4	34.71	PK	14	-29.2	19.51	46.02	-26.51	0-360	101	H
6	357.9	33.49	PK	14.5	-28.9	19.09	46.02	-26.93	0-360	101	H
13	665.8	30.83	PK	19.7	-28.2	22.33	46.02	-23.69	0-360	300	V

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

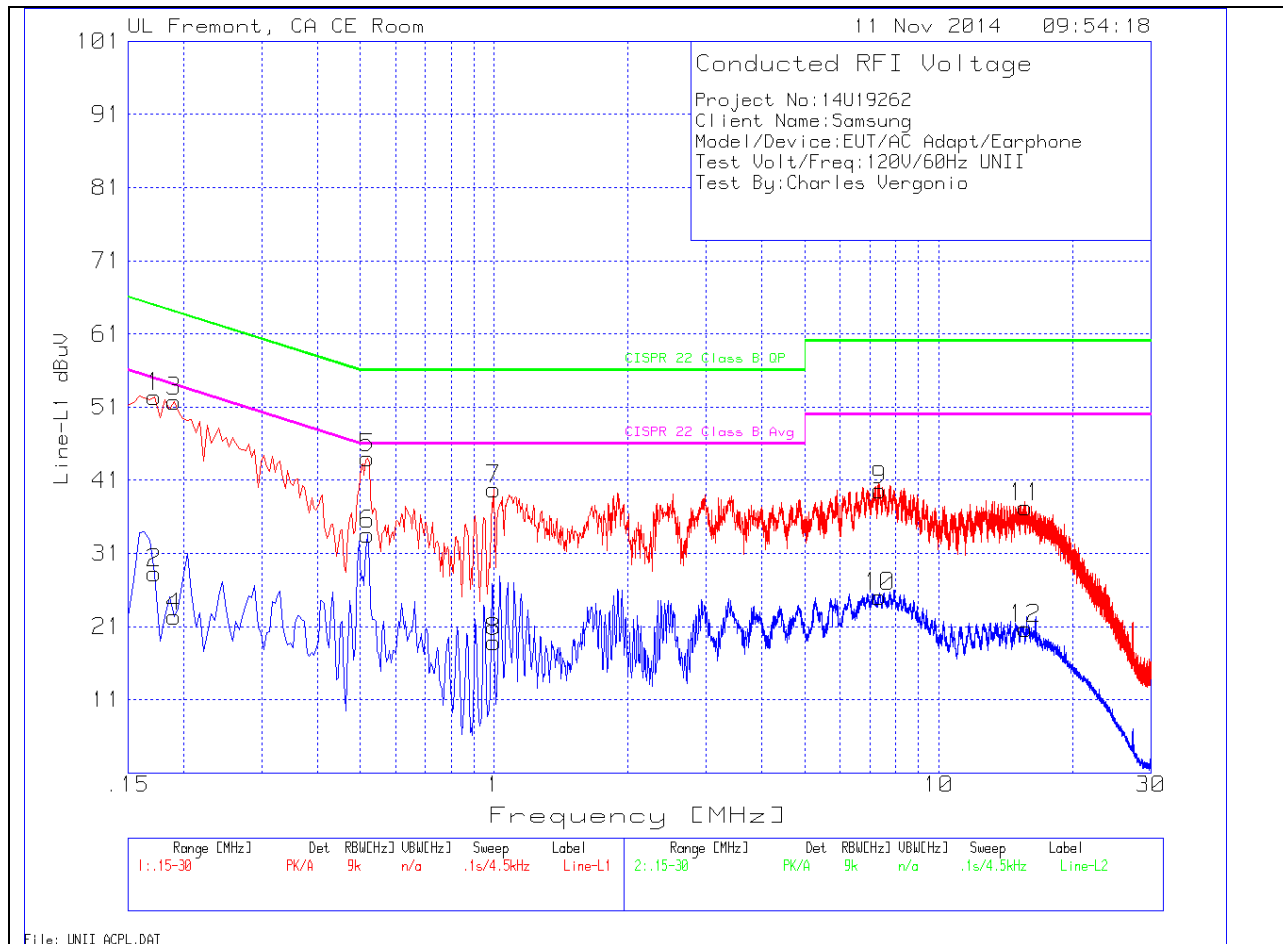
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT

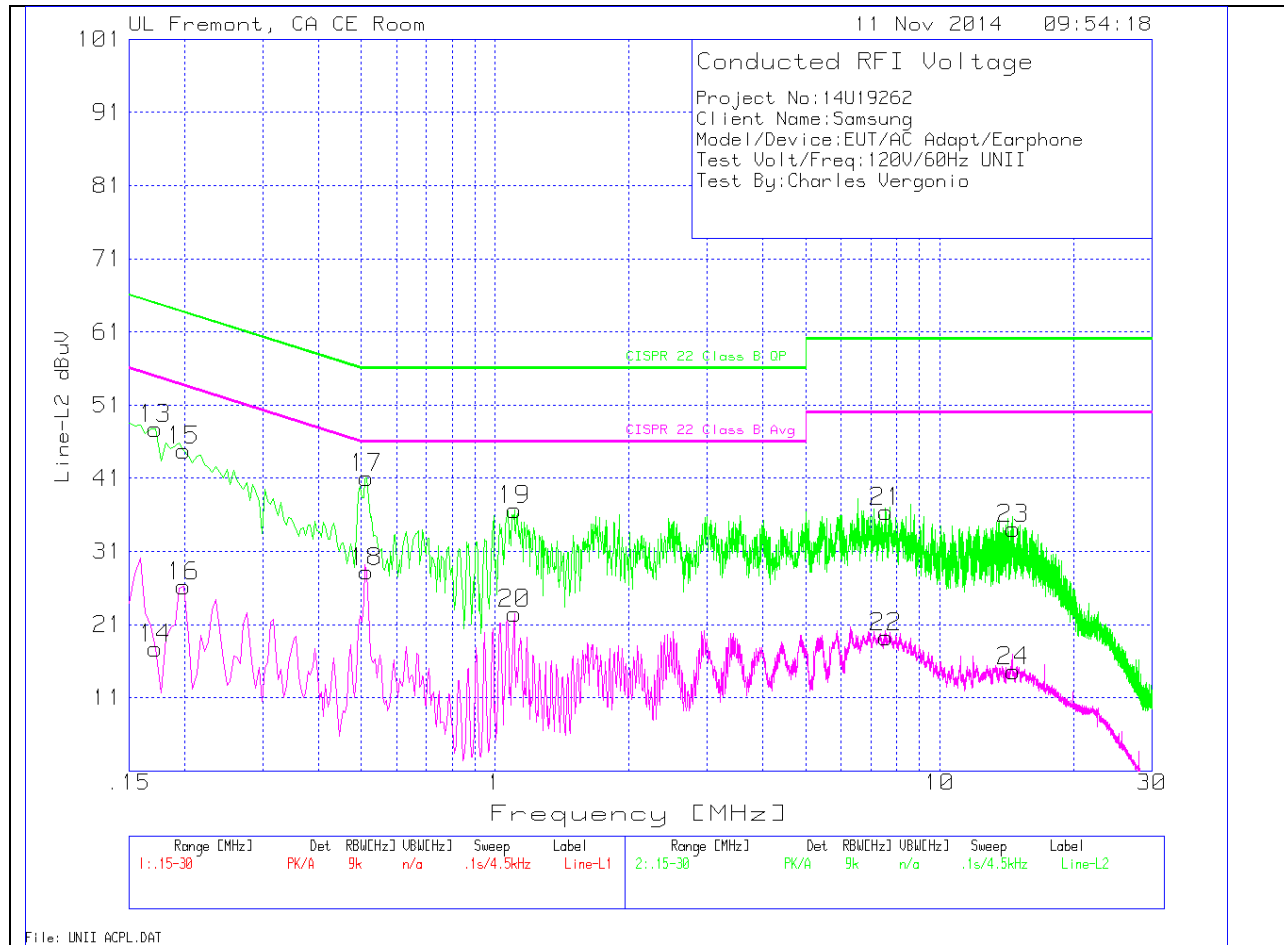


LINE 1 RESULTS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1725	51.2	PK	1.2	0	52.4	64.8	-12.4	-	-
2	.1725	27.1	Av	1.2	0	28.3	-	-	54.8	-26.5
3	.1905	50.79	PK	1	0	51.79	64	-12.21	-	-
4	.1905	21.3	Av	1	0	22.3	-	-	54	-31.7
5	.519	43.77	PK	.3	0	44.07	56	-11.93	-	-
6	.519	33.23	Av	.3	0	33.53	-	-	46	-12.47
7	1.0005	39.55	PK	.2	0	39.75	56	-16.25	-	-
8	1.0005	18.73	Av	.2	0	18.93	-	-	46	-27.07
9	7.3725	39.28	PK	.2	.1	39.58	60	-20.42	-	-
10	7.3725	24.81	Av	.2	.1	25.11	-	-	50	-24.89
11	15.711	36.86	PK	.3	.2	37.36	60	-22.64	-	-
12	15.711	20.16	Av	.3	.2	20.66	-	-	50	-29.34

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
13	.1725	46.58	PK	1.2	0	47.78	64.8	-17.02	-	-
14	.1725	16.51	Av	1.2	0	17.71	-	-	54.8	-37.09
15	.1995	43.74	PK	1	0	44.74	63.6	-18.86	-	-
16	.1995	25.2	Av	1	0	26.2	-	-	53.6	-27.4
17	.5145	40.61	PK	.4	0	41.01	56	-14.99	-	-
18	.5145	27.82	Av	.4	0	28.22	-	-	46	-17.78
19	1.104	36.25	PK	.3	.1	36.65	56	-19.35	-	-
20	1.104	22.08	Av	.3	.1	22.48	-	-	46	-23.52
21	7.5705	36.08	PK	.2	.1	36.38	60	-23.62	-	-
22	7.5705	18.95	Av	.2	.1	19.25	-	-	50	-30.75
23	14.6625	33.63	PK	.3	.2	34.13	60	-25.87	-	-
24	14.6625	14.1	Av	.3	.2	14.6	-	-	50	-35.4

13. DYNAMIC FREQUENCY SELECTION

13.1. OVERVIEW

13.1.1. LIMITS

INDUSTRY CANADA

IC RSS-210 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-210 Issue 7 A9.4 (b) (ii) **Channel Availability Check Time:**

Additional requirements for the band 5600-5650 MHz: Until further notice, devices subject to this Section shall not be capable of transmitting in the band 5600-5650 MHz, so that Environment Canada weather radars operating in this band are protected.

FCC

§15.407 (h) and FCC 06-96 APPENDIX "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVCIES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION".

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
Uniform Spreading	Yes	Not required	Not required

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

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

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.	

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
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period
The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: For the Short pulse radar Test Signals this instant is the end of the <i>Burst</i>. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12-second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10-second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
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

Table 6 – Long Pulse Radar Test Signal

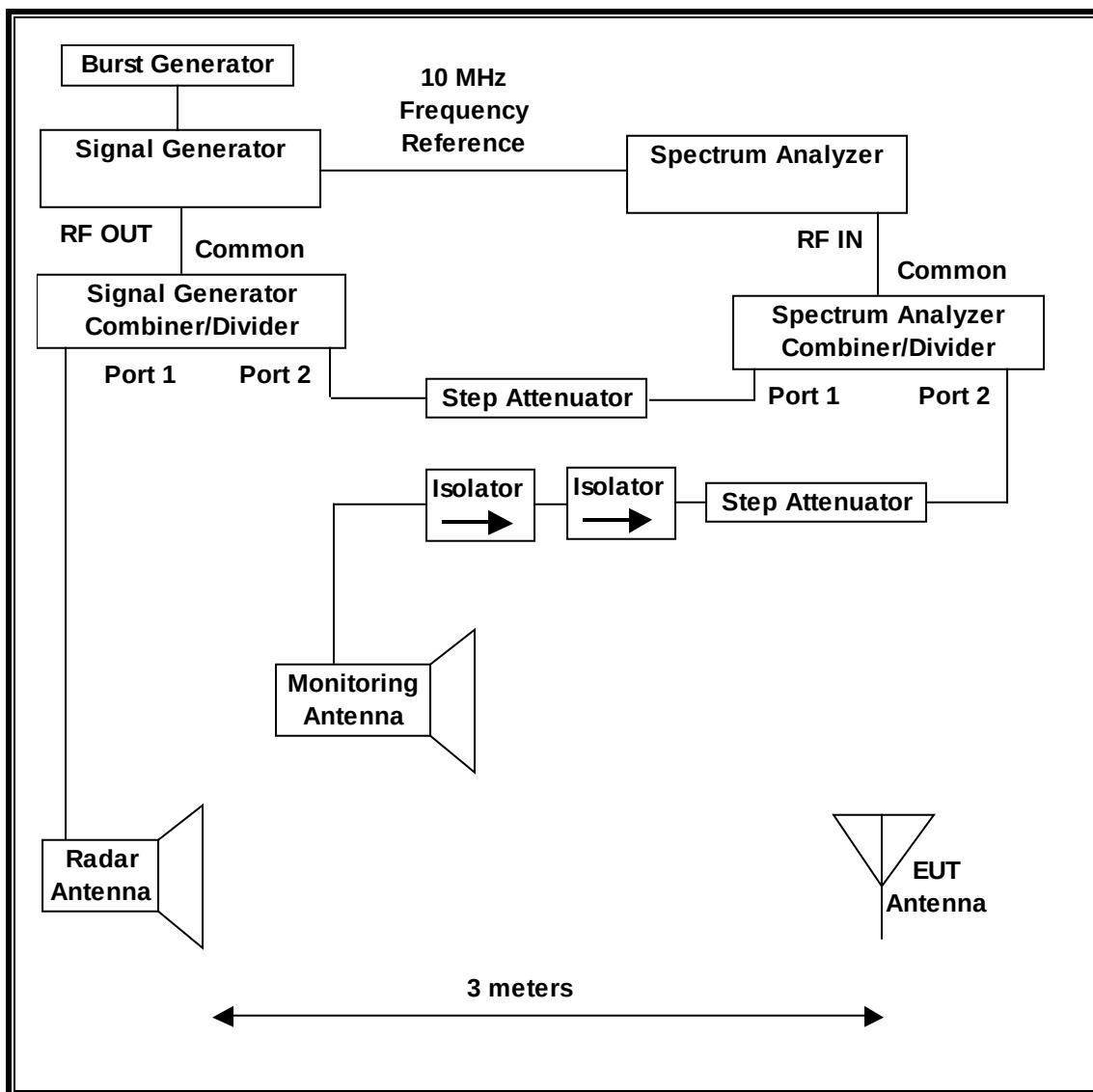
Radar Waveform	Bursts	Pulses per Burst	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

Table 7 – Frequency Hopping Radar Test Signal

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

13.1.2. 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 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 FCC 06-96 APPENDIX. 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.

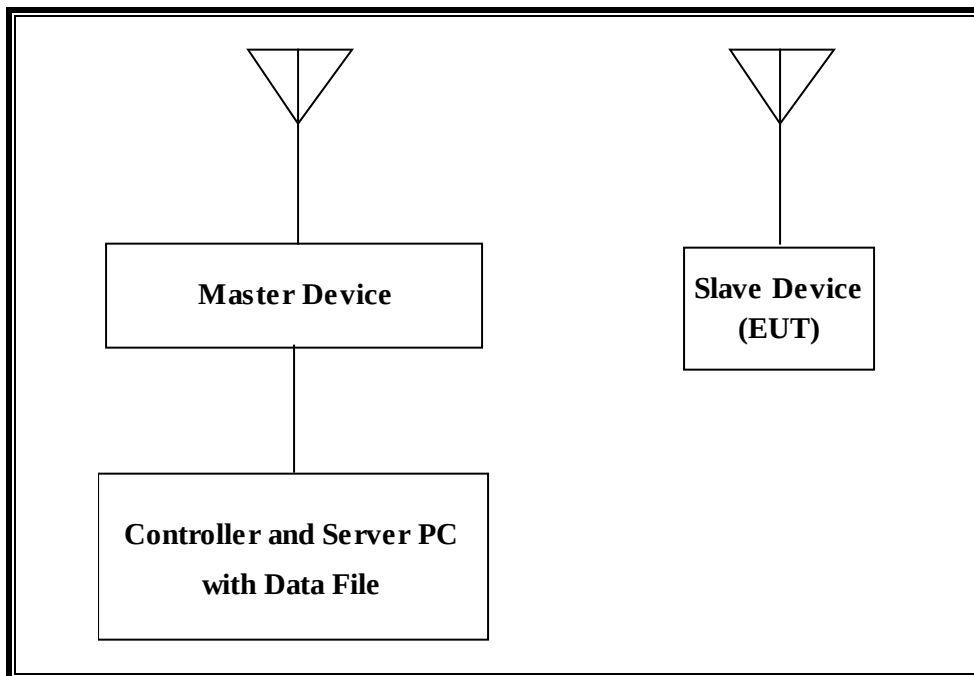
TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset Number	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	09/05/15
Vector Signal Generator, 20GHz	Agilent / HP	E8267C	C01066	09/03/15

13.1.3. 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
AC Adapter (EUT)	Samsung	EP-TA50EWE	1989214	DoC
802.11ac Access Point (Master Device)	Cisco	AIR-CAP3702E-A-K9	FTX181570A6	LDK102087
P.O.E. Injector (Access Point)	Phihong	POE30U-560(G)	PHI170102N2	DoC
Notebook PC (Controller/Server)	Dell	PP18L	10657517725	DoC
AC Adapter (Controller/Server PC)	Dell	LA65SN0-00	CN-ODF263-71615-6AU-1019	DoC

13.1.4. DESCRIPTION OF EUT

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

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

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 13.7 dBm EIRP in the 5250-5350 MHz band and 14.7 dBm EIRP in the 5470-5725 MHz band.

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 one transmitter/receiver chain connected to an antenna to perform radiated tests.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using version 2.0.6 ESMedia Player.

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

The EUT utilizes the 802.11a/n architecture. Two nominal channel bandwidths are implemented: 20 MHz and 40 MHz.

The software installed in the access point is revision 15.2(4)JB4.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio 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.

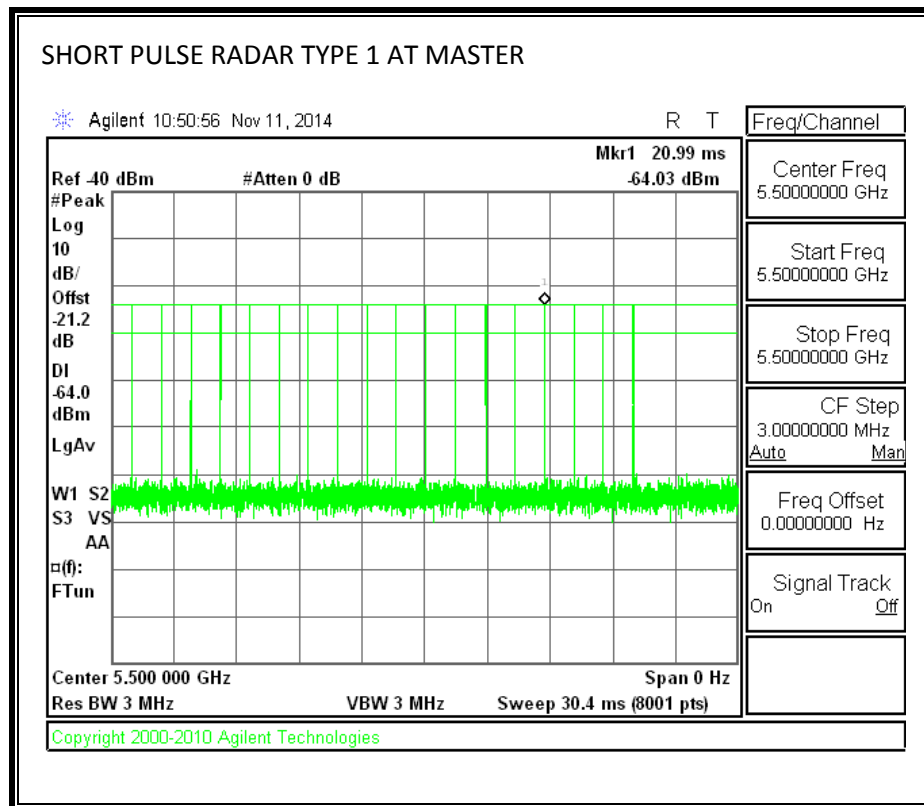
13.2. RESULTS FOR 20 MHz BANDWIDTH

13.2.1. TEST CHANNEL

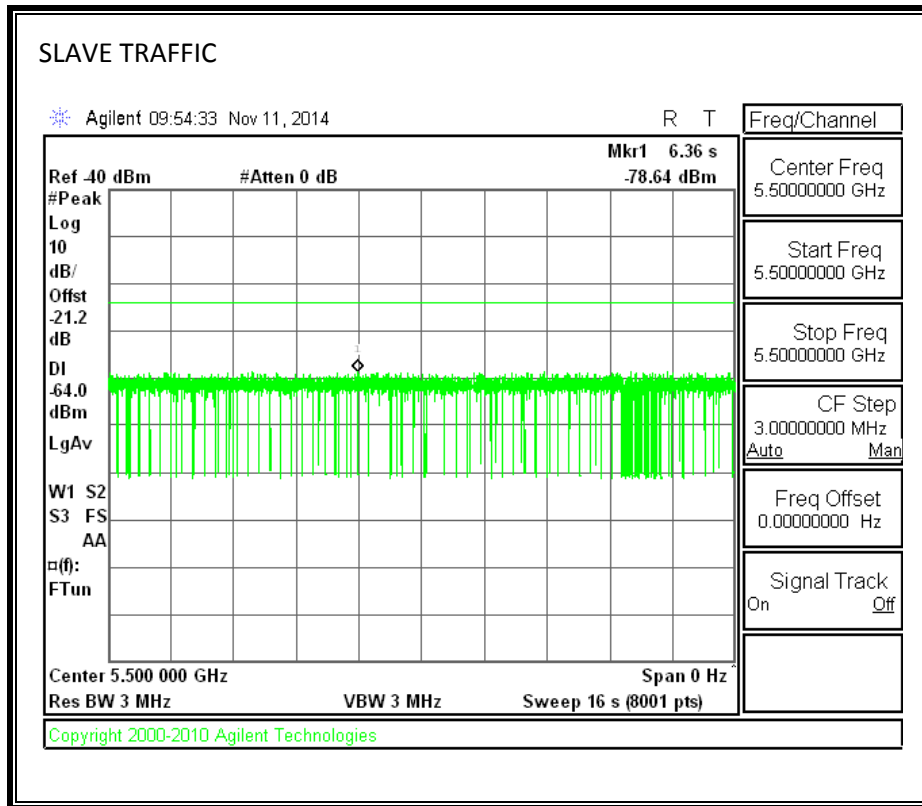
All tests were performed at a channel center frequency of 5500 MHz.

13.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



13.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

13.2.4. 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)

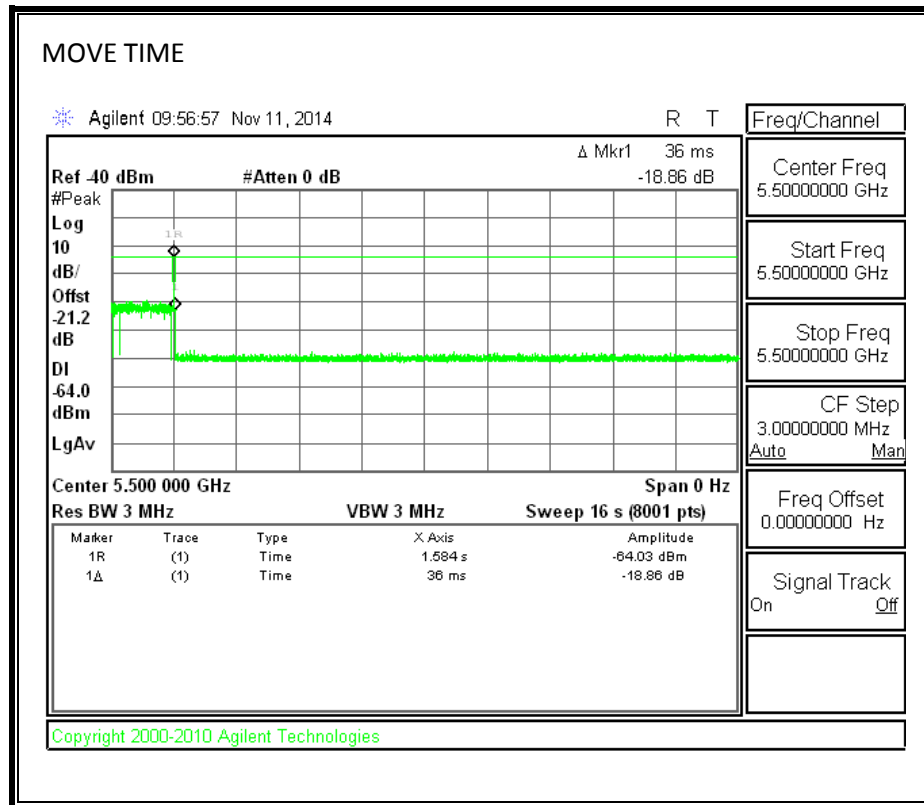
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

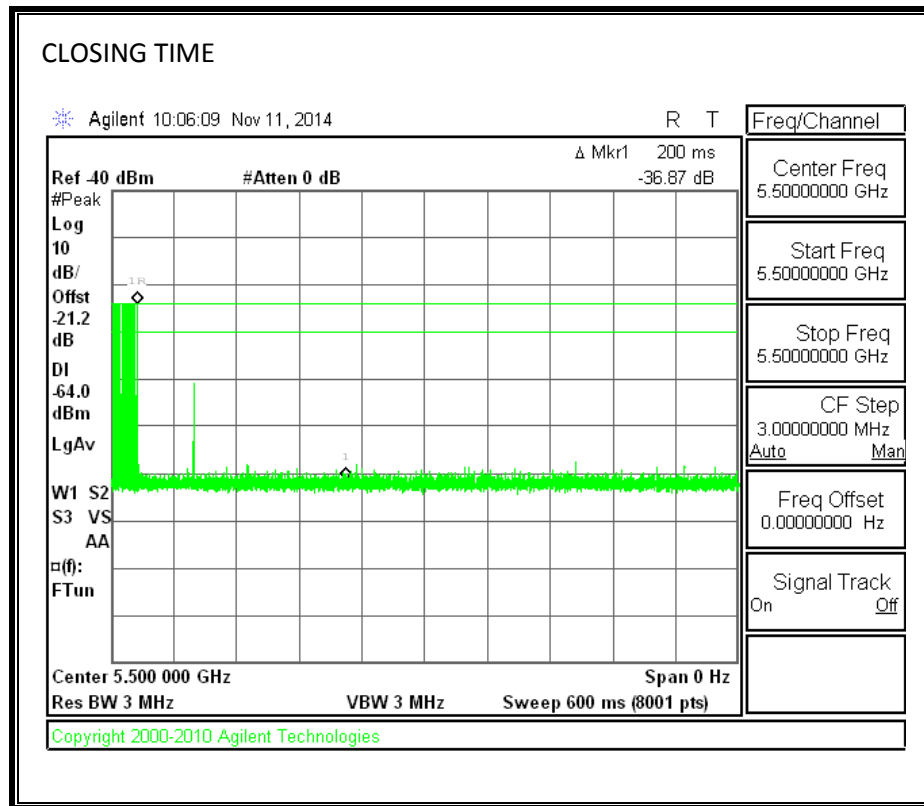
Channel Move Time (sec)	Limit (sec)
0.036	10

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

MOVE TIME

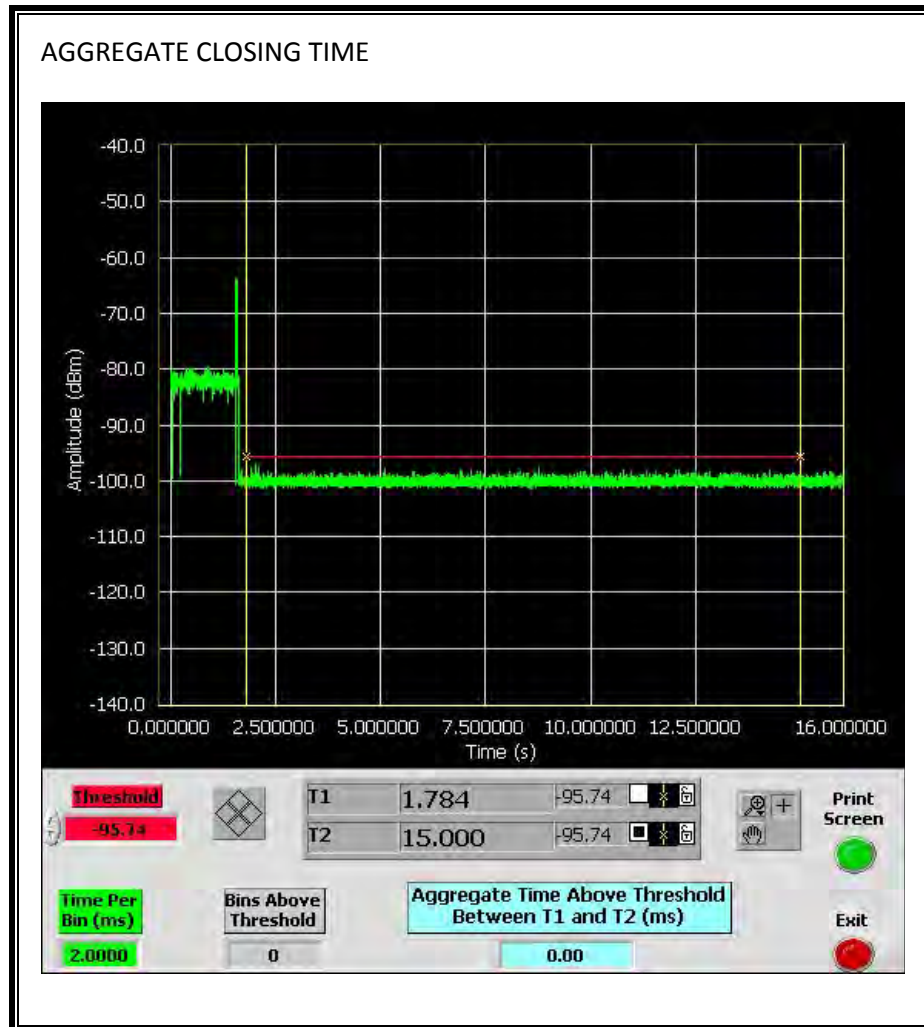


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



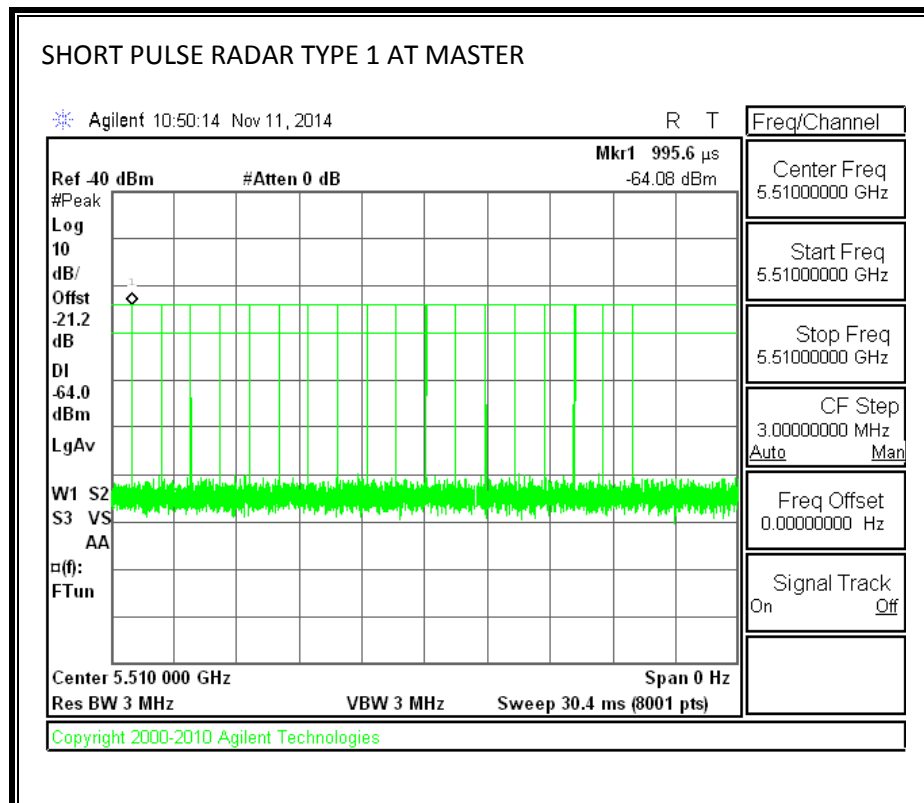
13.3. RESULTS FOR 40 MHz BANDWIDTH

13.3.1. TEST CHANNEL

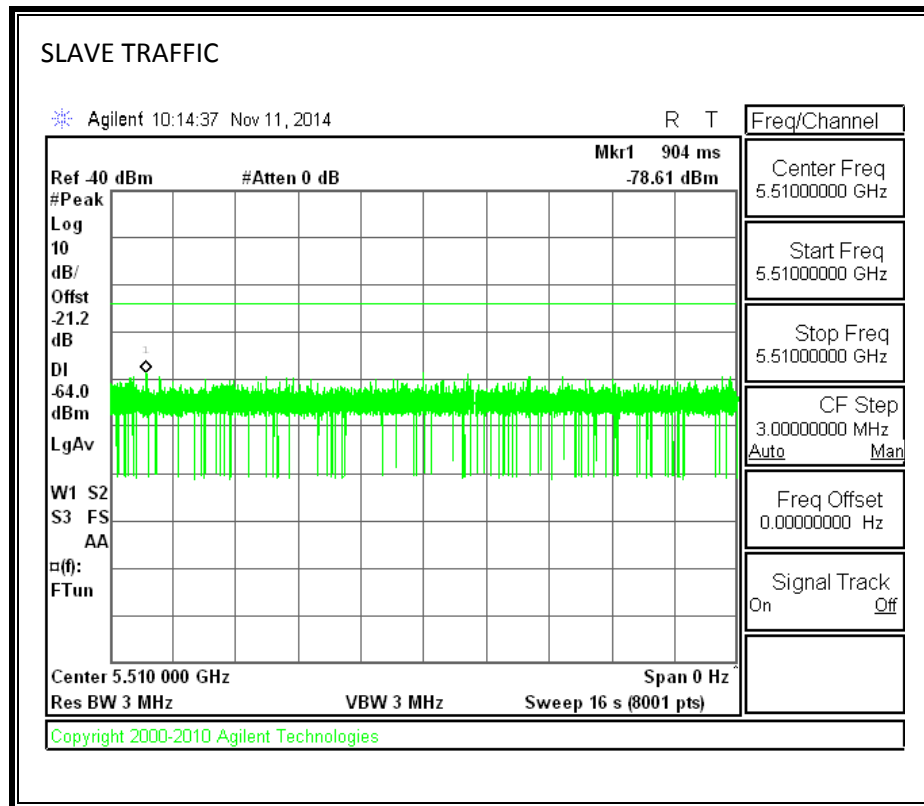
All tests were performed at a channel center frequency of 5510 MHz.

13.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



13.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

13.3.4. 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)

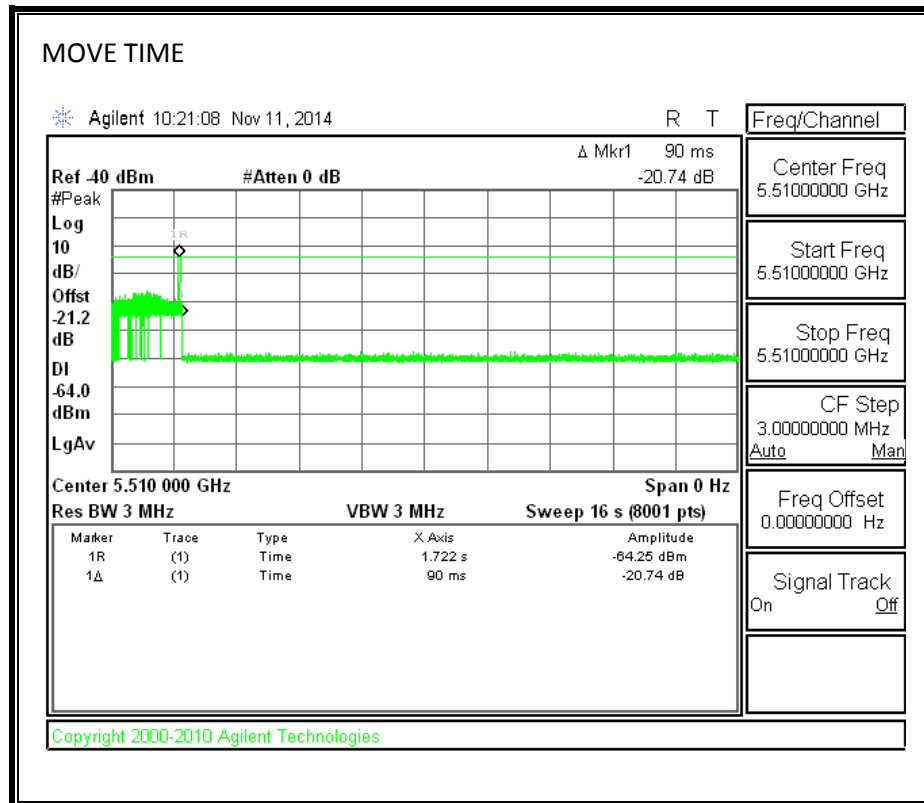
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

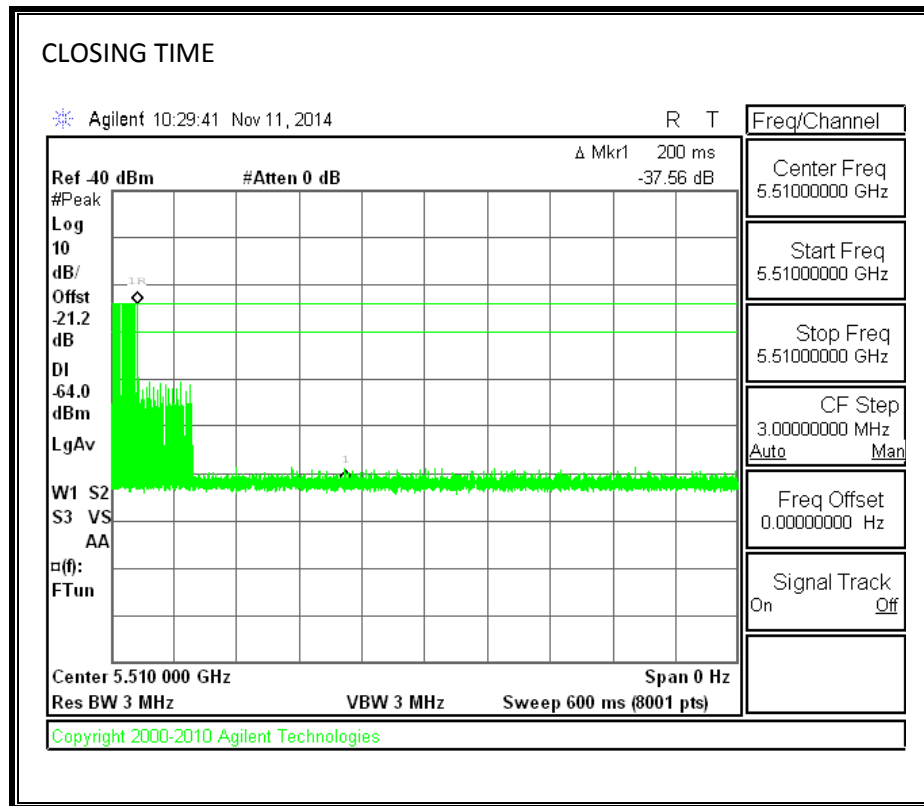
Channel Move Time (sec)	Limit (sec)
0.090	10

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

MOVE TIME

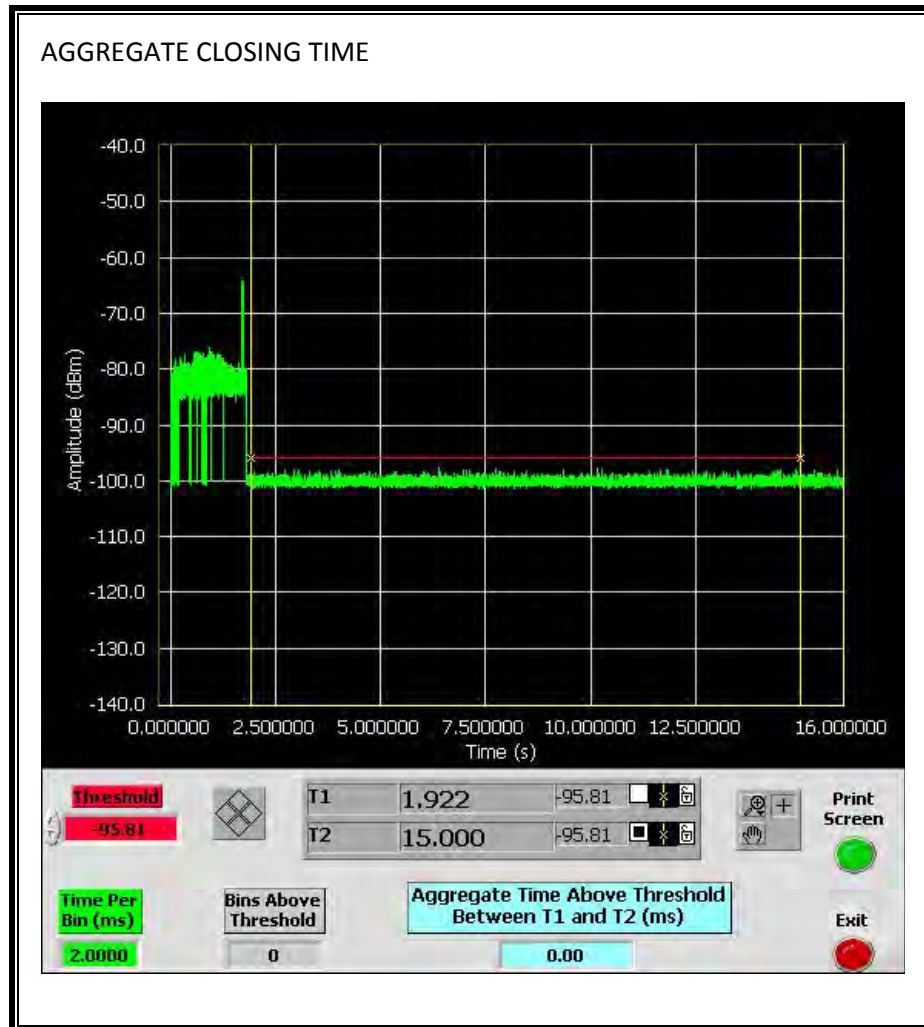


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



13.3.5. 10-MINUTE BEACON MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.

