9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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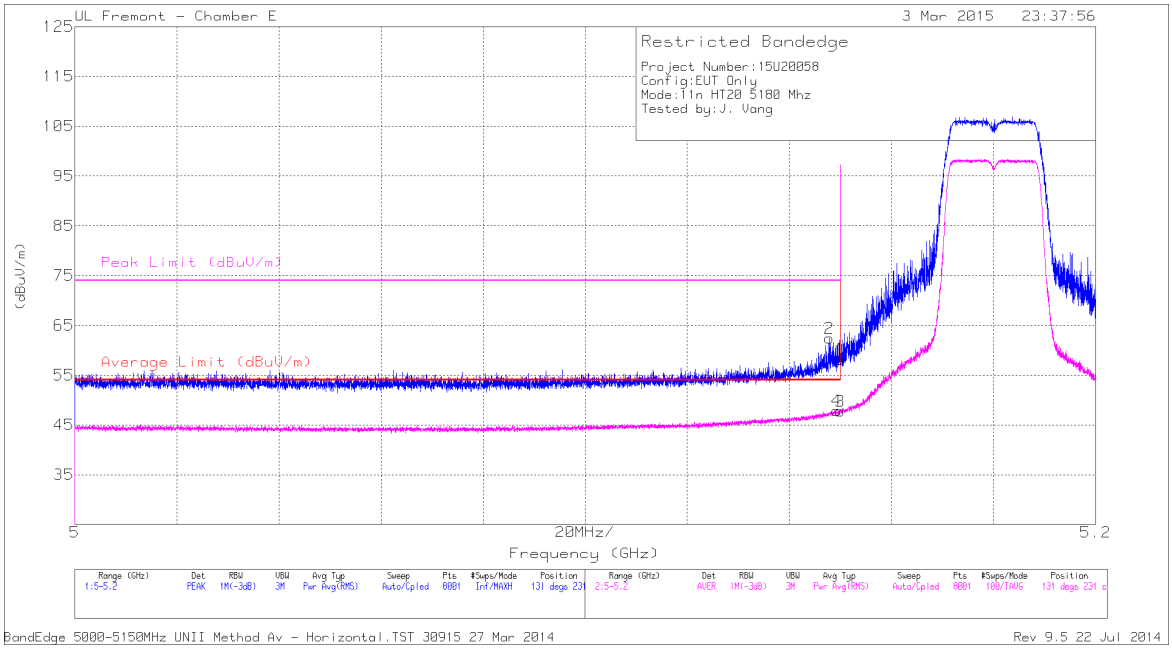
9.2. 802.11n HT20 SISO MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 5.148	49.6	PK	34.3	-21.5	62.4	-	-	74	-11.6	131	231	H
4	* 5.149	35.09	RMS	34.3	-21.5	47.89	54	-6.11	-	-	131	231	H
1	* 5.15	45.37	PK	34.3	-21.5	58.17	-	-	74	-15.83	131	231	H
3	* 5.15	34.95	RMS	34.3	-21.5	47.75	54	-6.25	-	-	131	231	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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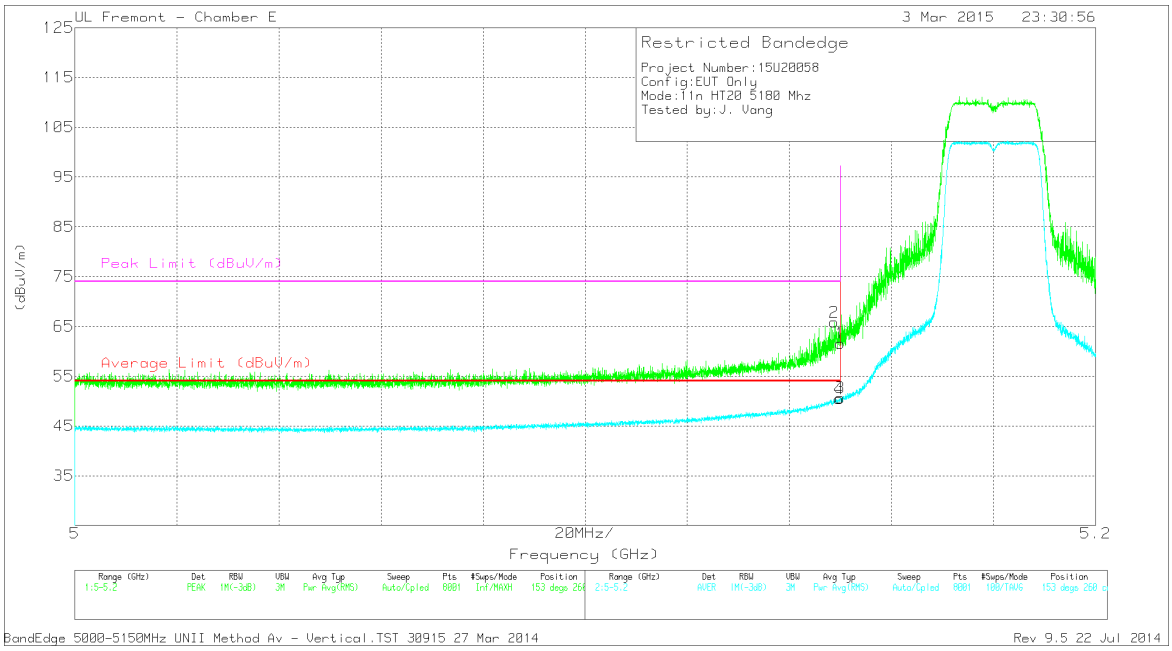
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	* 5.149	53.01	PK	34.3	-21.5	65.81	-	-	74	-8.19	153	260	V
1	* 5.15	48.82	PK	34.3	-21.5	61.62	-	-	74	-12.38	153	260	V
3	* 5.15	37.84	RMS	34.3	-21.5	50.64	54	-3.36	-	-	153	260	V
4	* 5.15	37.68	RMS	34.3	-21.5	50.48	54	-3.52	-	-	153	260	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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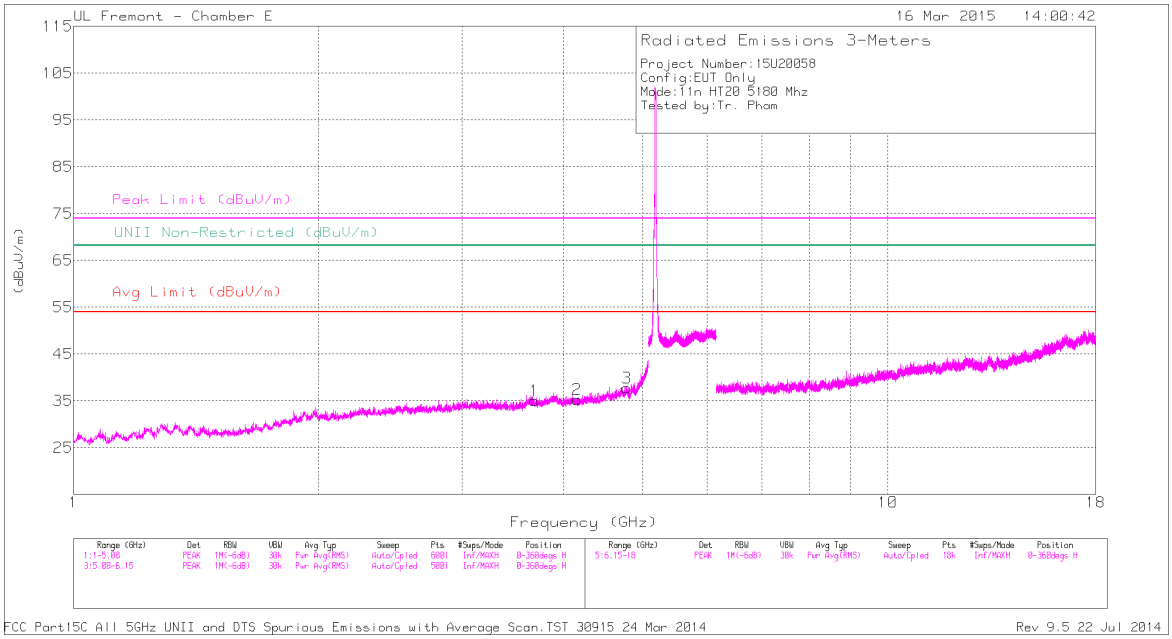
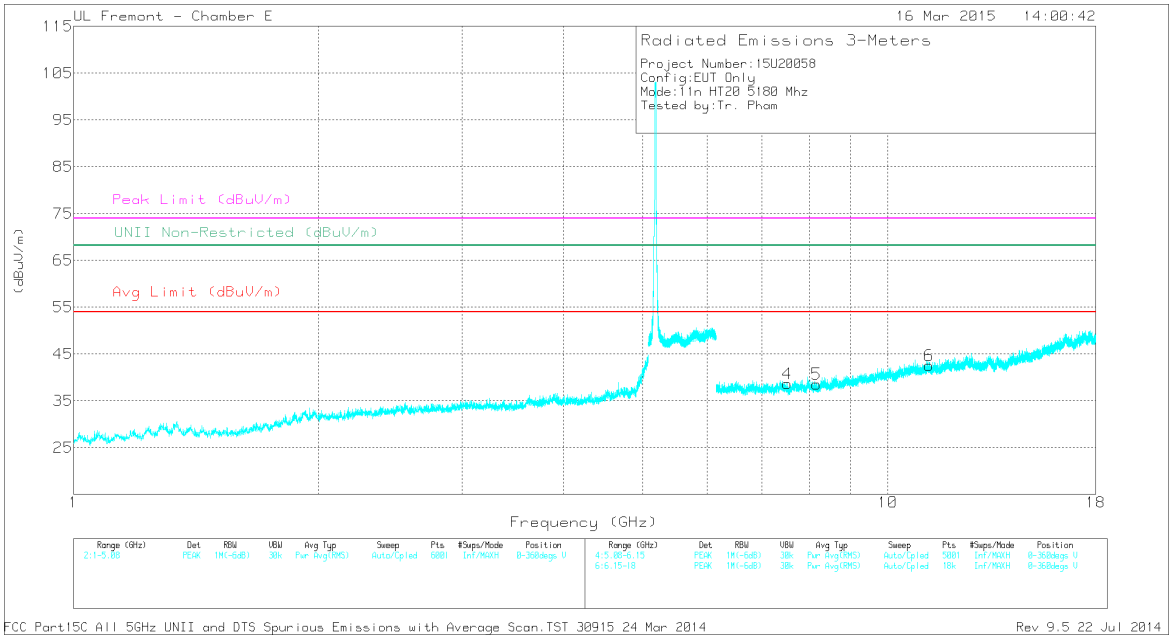
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.68	41.88	PK1	33.2	-31.3	43.78	-	-	74	-30.22	360	101	H
	* 3.679	29.97	AD1	33.2	-31.2	31.97	54	-22.03	-	-	360	101	H
2	* 4.149	42.32	PK1	33.4	-31.2	44.52	-	-	74	-29.48	360	101	H
	* 4.15	30.2	AD1	33.4	-31.2	32.4	54	-21.6	-	-	360	101	H
3	* 4.784	42.16	PK1	34.1	-30.2	46.06	-	-	74	-27.94	360	101	H
	* 4.784	30.9	AD1	34.1	-30.2	34.8	54	-19.2	-	-	360	101	H
4	* 7.525	39.27	PK1	35.7	-28.2	46.77	-	-	74	-27.23	360	101	V
	* 7.524	28.03	AD1	35.6	-28.2	35.43	54	-18.57	-	-	360	101	V
5	* 8.179	38.9	PK1	35.7	-28	46.6	-	-	74	-27.4	360	101	V
	* 8.178	28.11	AD1	35.7	-28	35.81	54	-18.19	-	-	360	101	V
6	* 11.227	37.77	PK1	37.9	-24.1	51.57	-	-	74	-22.43	360	101	V
	* 11.228	25.97	AD1	37.9	-24.1	39.77	54	-14.23	-	-	360	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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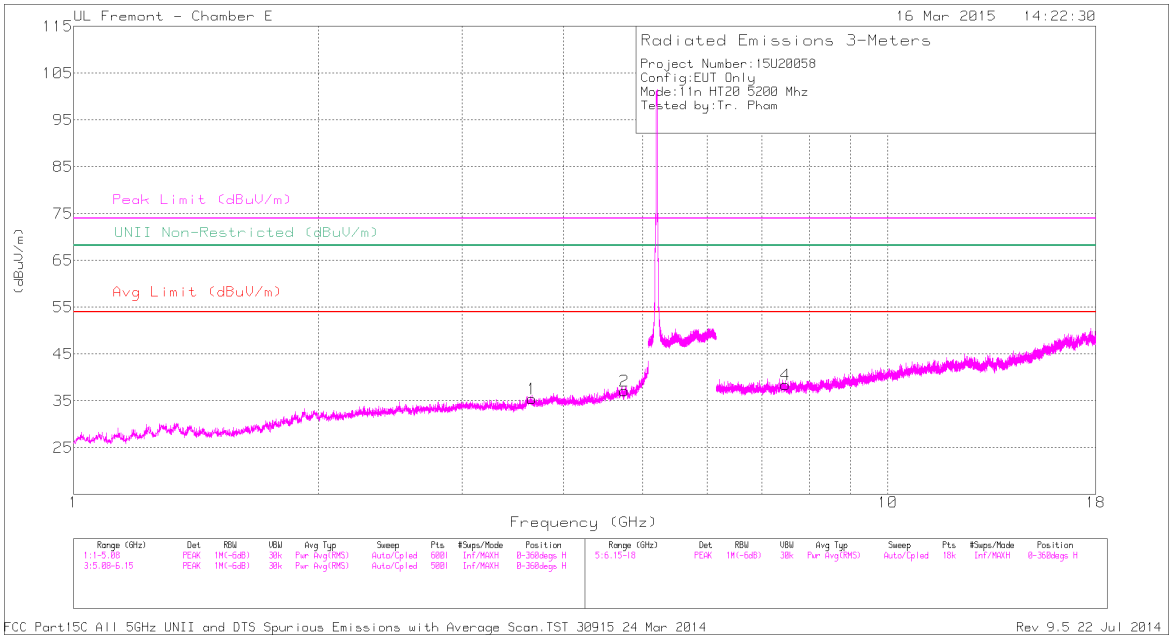
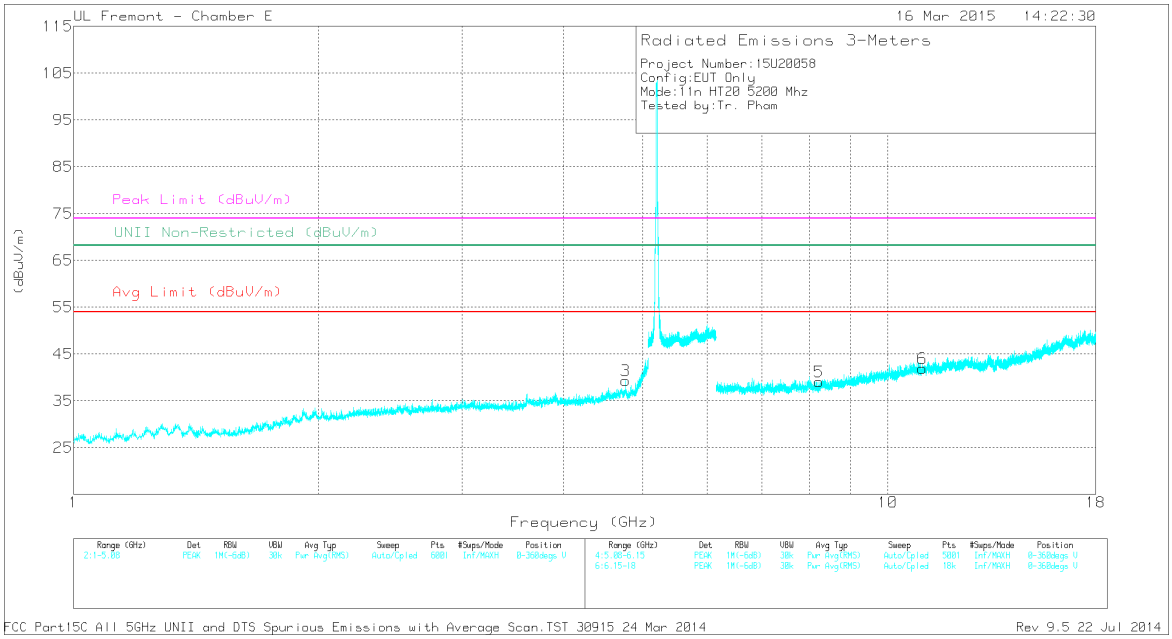
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.658	41.01	PK1	33.1	-31	43.11	-	-	74	-30.89	360	101	H
	* 3.657	30.01	AD1	33.1	-31	32.11	54	-21.89	-	-	360	101	H
2	* 4.752	43.04	PK1	34.1	-30.6	46.54	-	-	74	-27.46	360	101	H
	* 4.752	31.61	AD1	34.1	-30.6	35.11	54	-18.89	-	-	360	101	H
3	* 4.767	42.35	PK1	34.1	-30.5	45.95	-	-	74	-28.05	360	101	V
	* 4.768	30.8	AD1	34.1	-30.5	34.4	54	-19.6	-	-	360	101	V
4	* 7.491	39.7	PK1	35.6	-28.5	46.8	-	-	74	-27.2	360	101	H
	* 7.491	28.49	AD1	35.6	-28.5	35.59	54	-18.41	-	-	360	101	H
5	* 8.225	39.16	PK1	35.7	-27.8	47.06	-	-	74	-26.94	360	101	V
	* 8.226	27.57	AD1	35.7	-27.8	35.47	54	-18.53	-	-	360	101	V
6	* 11.016	37.04	PK1	37.9	-24	50.94	-	-	74	-23.06	360	101	V
	* 11.016	25.56	AD1	37.9	-24	39.46	54	-14.54	-	-	360	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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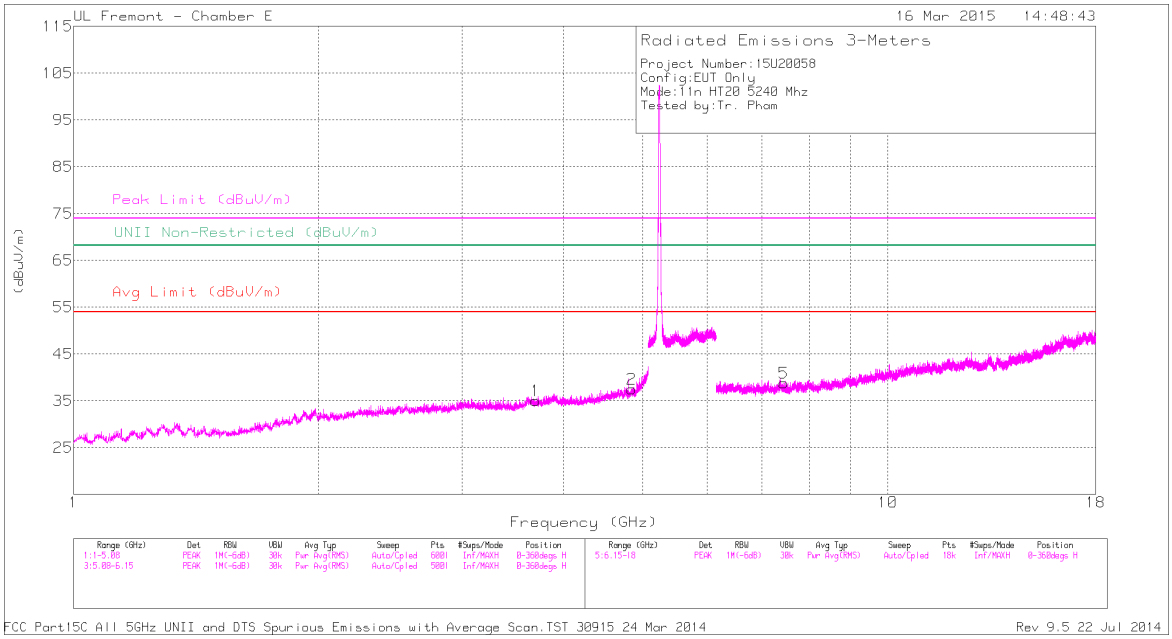
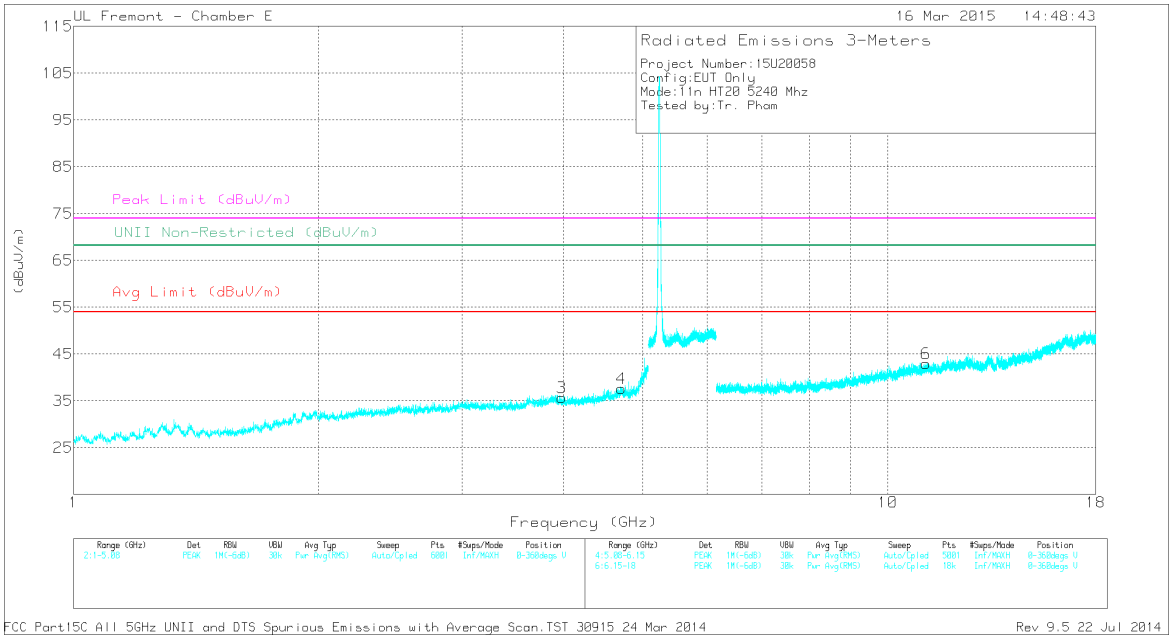
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.695	42.23	PK1	33.2	-31.5	43.93	-	-	74	-30.07	2	100	H
	* 3.696	30.57	AD1	33.2	-31.5	32.27	54	-21.73	-	-	2	100	H
2	* 4.843	42.02	PK1	34.1	-30.4	45.72	-	-	74	-28.28	2	100	H
	* 4.843	30.95	AD1	34.1	-30.4	34.65	54	-19.35	-	-	2	100	H
3	* 3.973	42.41	PK1	33.4	-31.7	44.11	-	-	74	-29.89	2	100	V
	* 3.975	30.79	AD1	33.4	-31.7	32.49	54	-21.51	-	-	2	100	V
4	* 4.71	42.25	PK1	34.2	-30.2	46.25	-	-	74	-27.75	2	100	V
	* 4.71	30.8	AD1	34.2	-30.2	34.8	54	-19.2	-	-	2	100	V
5	* 7.453	40.07	PK1	35.6	-28.7	46.97	-	-	74	-27.03	2	100	H
	* 7.455	28.39	AD1	35.6	-28.7	35.29	54	-18.71	-	-	2	100	H
6	* 11.14	38.44	PK1	37.8	-24	52.24	-	-	74	-21.76	2	100	V
	* 11.139	25.7	AD1	37.8	-24	39.5	54	-14.5	-	-	2	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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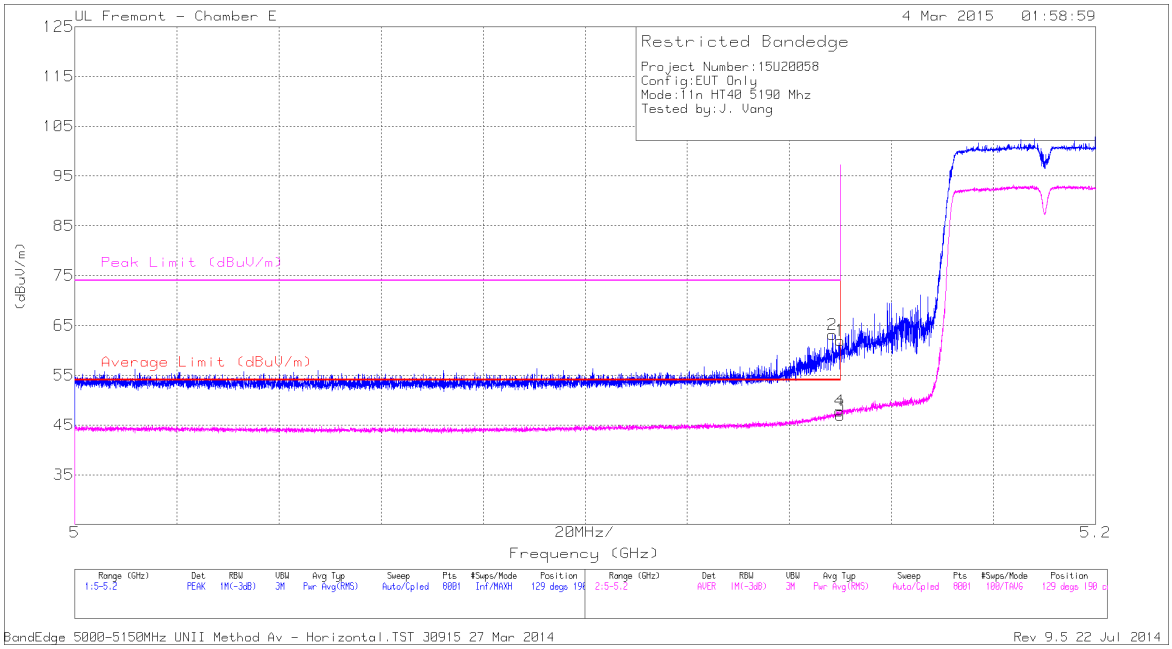
9.3. 802.11n HT40 SISO MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	50.32	PK	34.3	-21.5	0	63.12	-	-	74	-10.88	129	190	H
1	* 5.15	49.17	PK	34.3	-21.5	0	61.97	-	-	74	-12.03	129	190	H
3	* 5.15	34.14	RMS	34.3	-21.5	.09	46.94	54	-6.97	-	-	129	190	H
4	* 5.15	35.02	RMS	34.3	-21.5	.09	47.82	54	-6.09	-	-	129	190	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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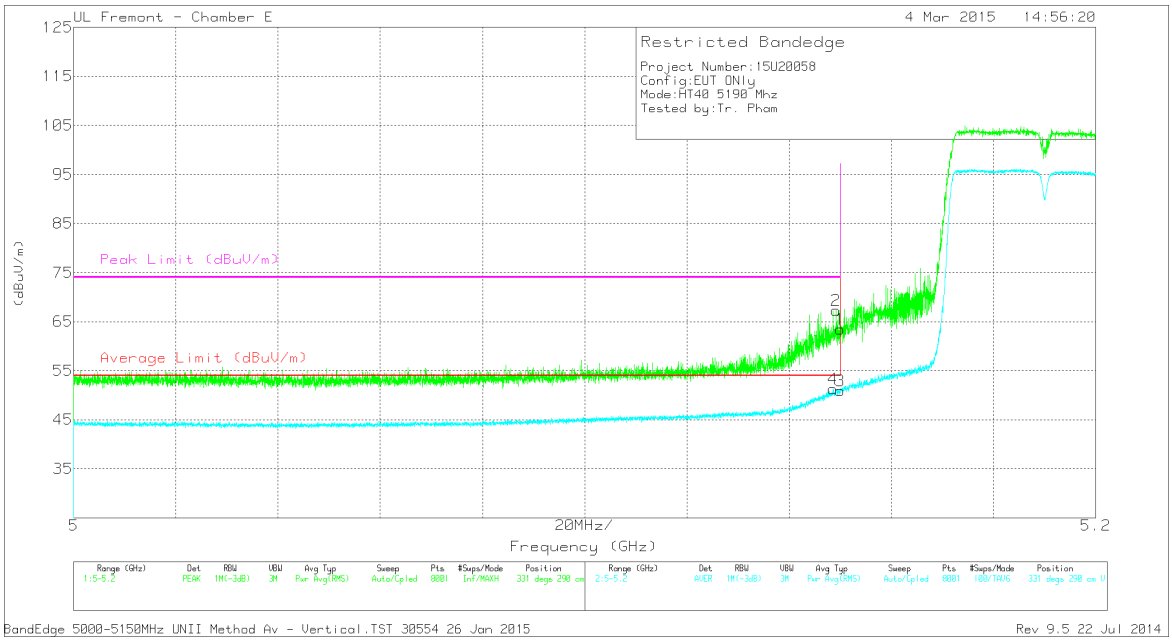
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	54.54	PK	34.3	-21.5	0	67.34	-	-	74	-6.66	331	290	V
4	* 5.149	38.44	RMS	34.3	-21.5	.09	51.33	54	-2.67	-	-	331	290	V
1	* 5.15	50.7	PK	34.3	-21.5	0	63.5	-	-	74	-10.5	331	290	V
3	* 5.15	38.16	RMS	34.3	-21.5	.09	51.05	54	-2.95	-	-	331	290	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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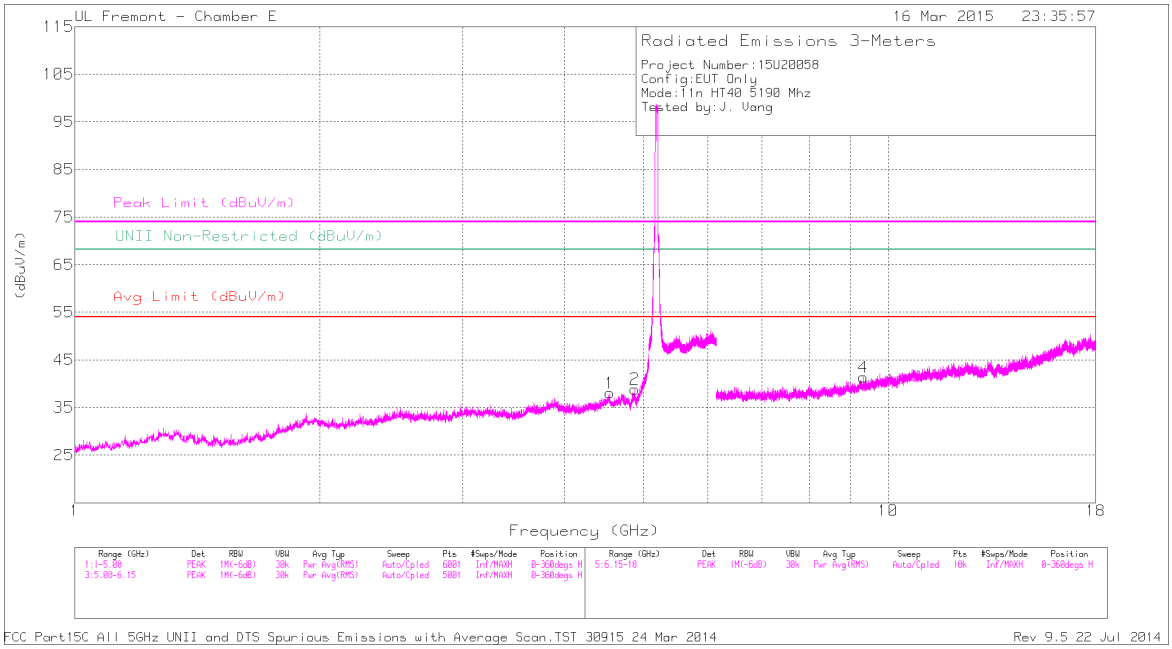
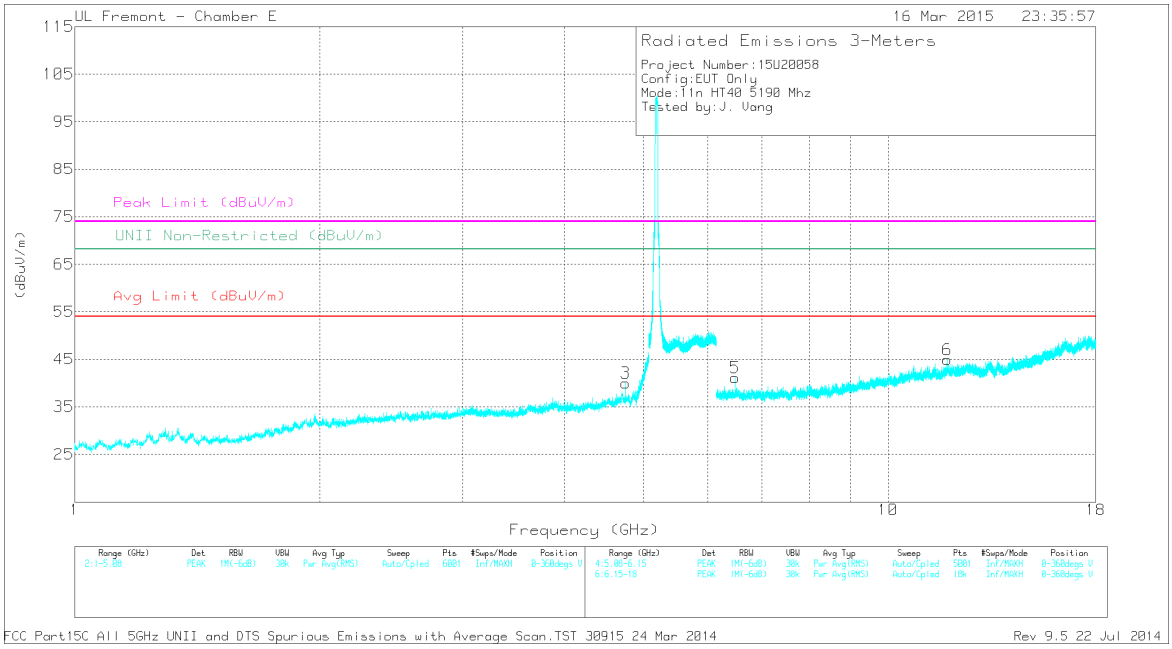
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 4.55	41.38	PK1	34	-30.5	0	44.88	-	-	74	-29.12	-	-	145	200	H
	* 4.547	29.86	AD1	34	-30.5	.09	33.45	54	-20.55	-	-	-	-	145	200	H
2	* 4.878	41.76	PK1	34.1	-30.2	0	45.66	-	-	74	-28.34	-	-	310	101	H
	* 4.88	30.51	AD1	34.1	-30.2	.09	34.5	54	-19.5	-	-	-	-	310	101	H
3	* 4.758	44.13	PK1	34.1	-30.6	0	47.63	-	-	74	-26.37	-	-	145	276	V
	* 4.757	34.73	AD1	34.1	-30.6	.09	38.32	54	-15.68	-	-	-	-	145	276	V
4	* 9.328	37.18	PK1	36.6	-25.3	0	48.48	-	-	74	-25.52	-	-	112	200	H
	* 9.33	25.48	AD1	36.6	-25.3	.09	36.87	54	-17.13	-	-	-	-	112	200	H
6	* 11.825	36.83	PK1	38.3	-23.2	0	51.93	-	-	74	-22.07	-	-	31	102	V
	* 11.824	25.08	AD1	38.3	-23.2	.09	40.27	54	-13.73	-	-	-	-	31	102	V
5	6.488	42.2	PK1	35.6	-28.5	0	49.3	-	-	-	-	68.2	-18.9	160	272	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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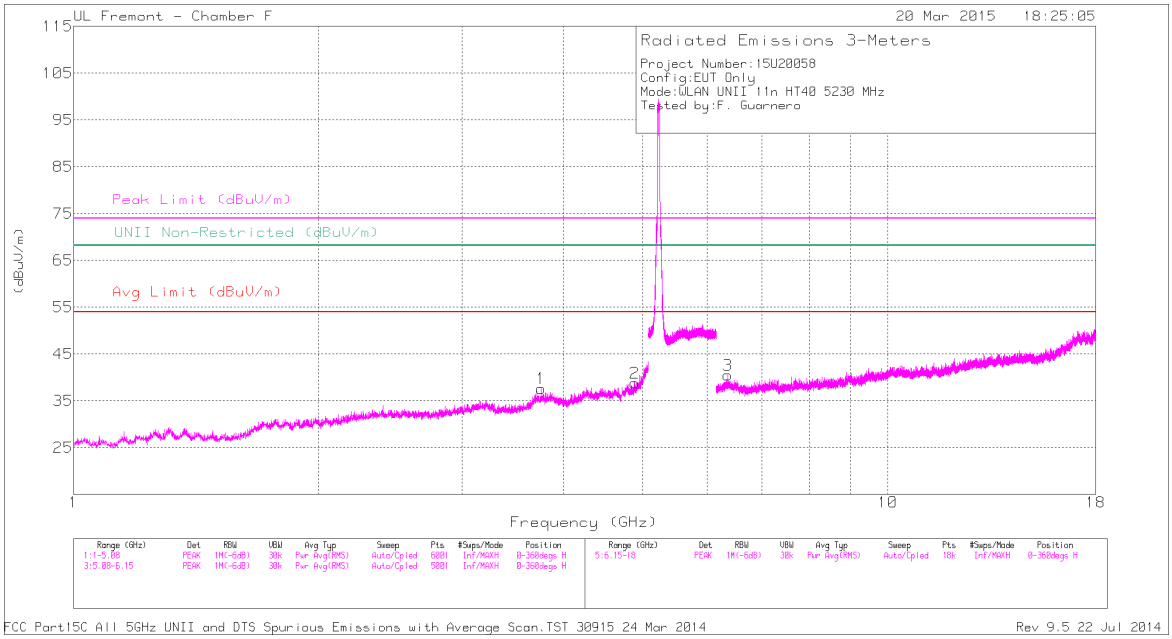
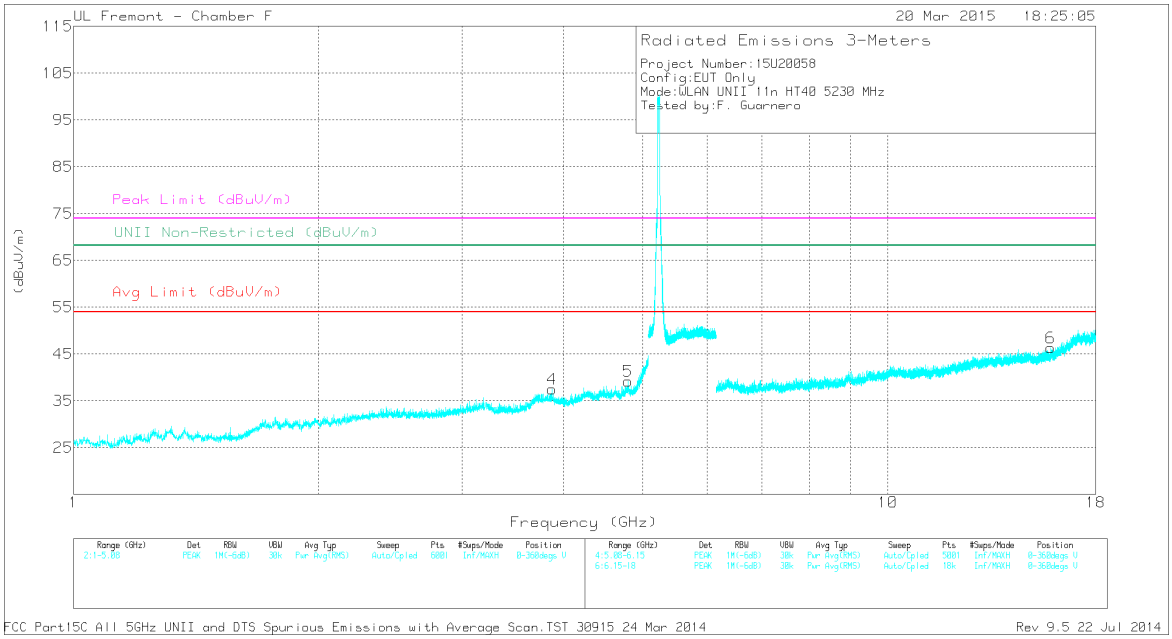
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

6	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 3.752	39.37	PK1	33.1	-29.5	0	42.97	-	-	74	-31.03	-	-	76	225	H
	* 3.751	27.37	AD1	33.1	-29.5	.09	31.06	54	-22.94	-	-	-	-	76	225	H
2	* 4.885	39.1	PK1	33.8	-27.3	0	45.6	-	-	74	-28.4	-	-	66	145	H
	* 4.884	27.44	AD1	33.8	-27.3	.09	34.03	54	-19.97	-	-	-	-	66	145	H
3	6.353	37.1	PK1	35.3	-26.2	0	46.2	-	-	-	-	68.2	-22	48	240	H
4	* 3.867	39.06	PK1	33.1	-28.9	0	43.26	-	-	74	-30.74	-	-	267	212	V
	* 3.866	27.49	AD1	33.1	-28.9	.09	31.78	54	-22.22	-	-	-	-	267	212	V
5	* 4.799	38.21	PK1	33.9	-27.6	0	44.51	-	-	74	-29.49	-	-	107	225	V
	* 4.802	27.32	AD1	33.9	-27.6	.09	33.71	54	-20.29	-	-	-	-	107	225	V
6	* 15.851	35.78	PK1	40.3	-22.4	0	53.68	-	-	74	-20.32	-	-	217	323	V
	* 15.854	24.21	AD1	40.3	-22.4	.09	42.2	54	-11.8	-	-	-	-	217	323	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701J
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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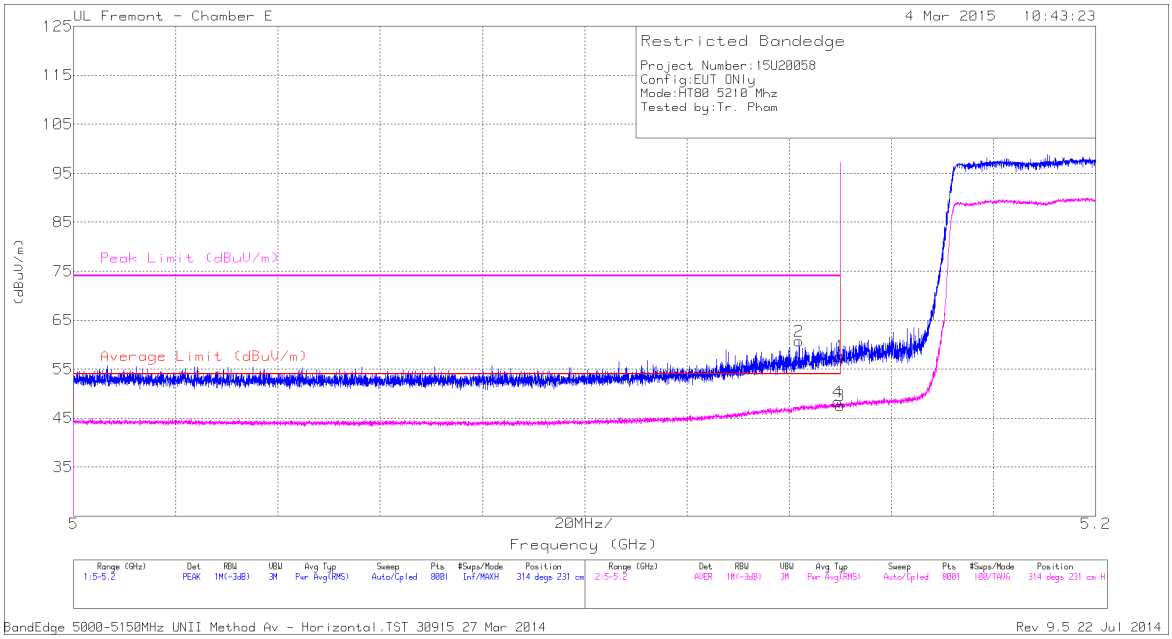
9.4. 802.11ac 80MHz 1TX SISO MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, CH 42)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.88	PK	34.3	-21.5	0	57.68	-	-	74	-16.32	314	231	H
2	* 5.142	48.06	PK	34.3	-21.6	0	60.76	-	-	74	-13.24	314	231	H
3	* 5.15	34.76	RMS	34.3	-21.5	0.2	47.76	54	-6.24	-	-	314	231	H
4	* 5.15	35.48	RMS	34.3	-21.5	0.2	48.48	54	-5.52	-	-	314	231	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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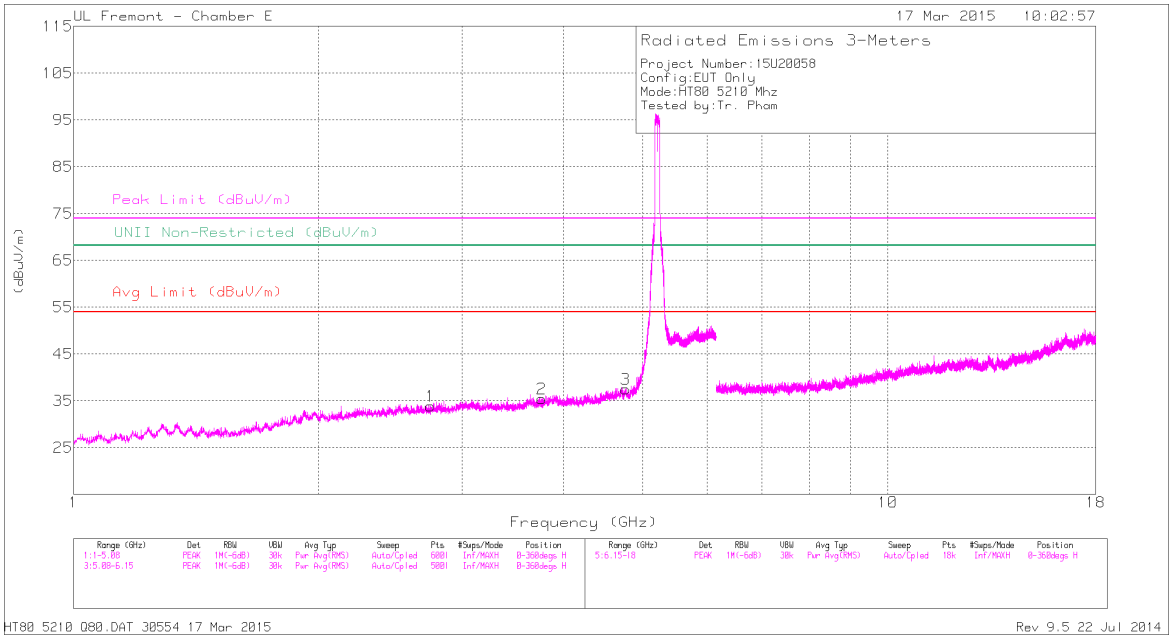
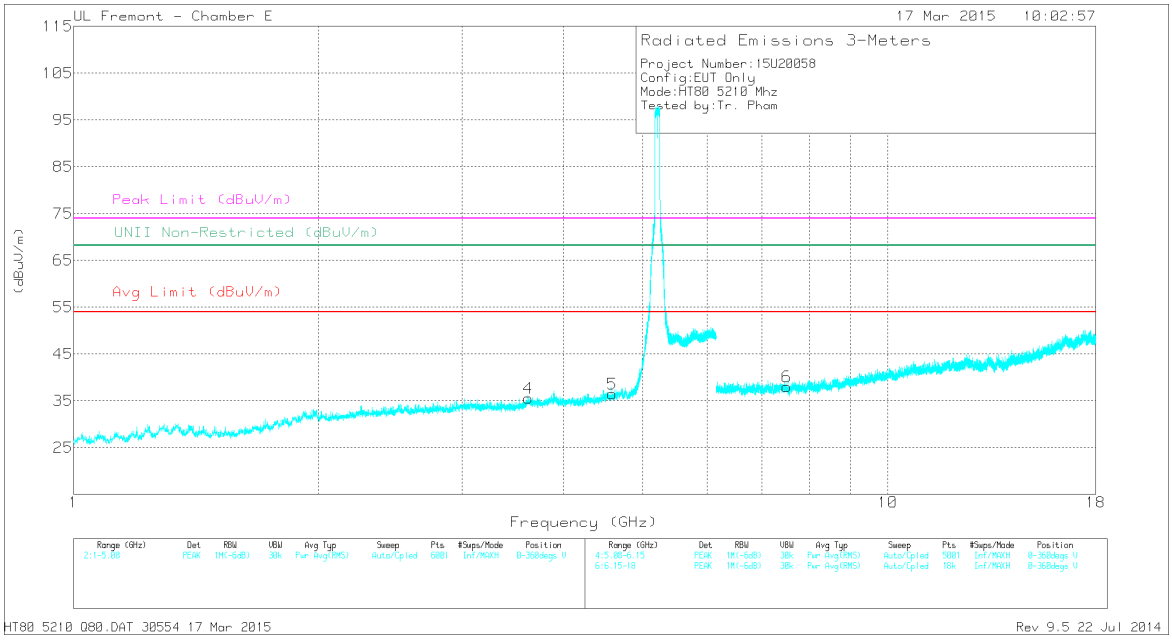
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.743	41.4	PK1	32.4	-32.1	0	41.7	-	-	74	-32.3	360	100	H
	* 2.742	30.44	AD1	32.4	-32.1	.2	30.94	54	-23.06	-	-	360	100	H
2	* 3.759	42.08	PK1	33.4	-32.1	0	43.38	-	-	74	-30.62	360	100	H
	* 3.76	30.56	AD1	33.4	-32.1	.2	32.06	54	-21.94	-	-	360	100	H
3	* 4.768	42.46	PK1	34.1	-30.5	0	46.06	-	-	74	-27.94	360	100	H
	* 4.768	31.22	AD1	34.1	-30.5	.2	35.02	54	-18.98	-	-	360	100	H
4	* 3.62	42.11	PK1	33.1	-31	0	44.21	-	-	74	-29.79	360	100	V
	* 3.621	30.13	AD1	33.1	-31	.2	32.43	54	-21.57	-	-	360	100	V
5	* 4.586	42.13	PK1	34.1	-30.9	0	45.33	-	-	74	-28.67	360	100	V
	* 4.586	30.35	AD1	34.1	-30.9	.2	33.75	54	-20.25	-	-	360	100	V
6	* 7.518	39.3	PK1	35.6	-28.2	0	46.7	-	-	74	-27.3	360	100	V
	* 7.518	27.9	AD1	35.6	-28.2	.2	35.5	54	-18.5	-	-	360	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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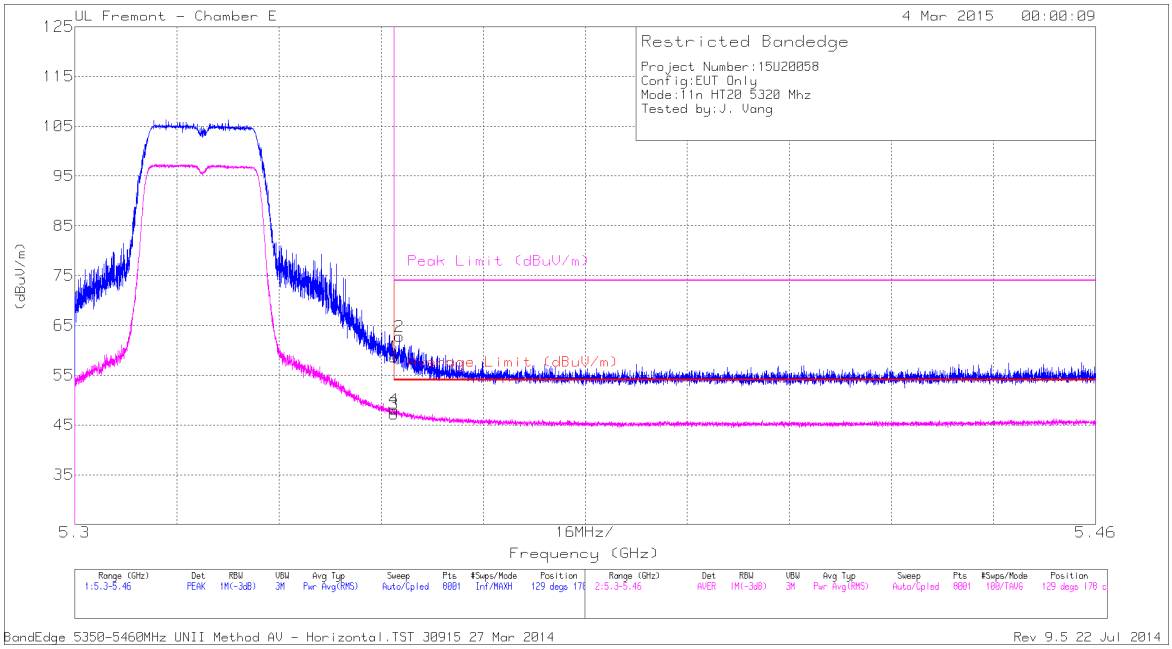
9.5. 802.11n HT20 SISO MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	45.59	PK	34.5	-21.4	58.69	-	-	74	-15.31	129	178	H
3	* 5.35	34.1	RMS	34.5	-21.4	47.2	54	-6.8	-	-	129	178	H
4	* 5.35	35.03	RMS	34.5	-21.4	48.13	54	-5.87	-	-	129	178	H
2	* 5.351	49.69	PK	34.5	-21.4	62.79	-	-	74	-11.21	129	178	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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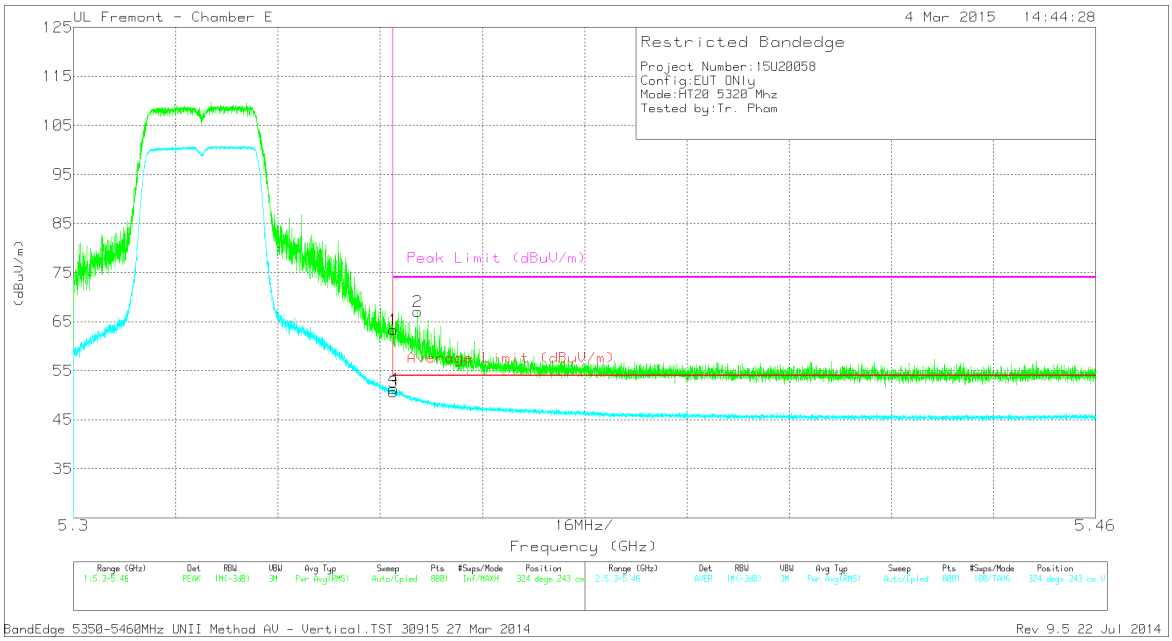
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	50.28	PK	34.5	-21.4	63.38	-	-	74	-10.62	324	243	V
3	* 5.35	37.53	RMS	34.5	-21.4	50.63	54	-3.37	-	-	324	243	V
4	* 5.35	38.17	RMS	34.5	-21.4	51.27	54	-2.73	-	-	324	243	V
2	* 5.354	53.97	PK	34.5	-21.4	67.07	-	-	74	-6.93	324	243	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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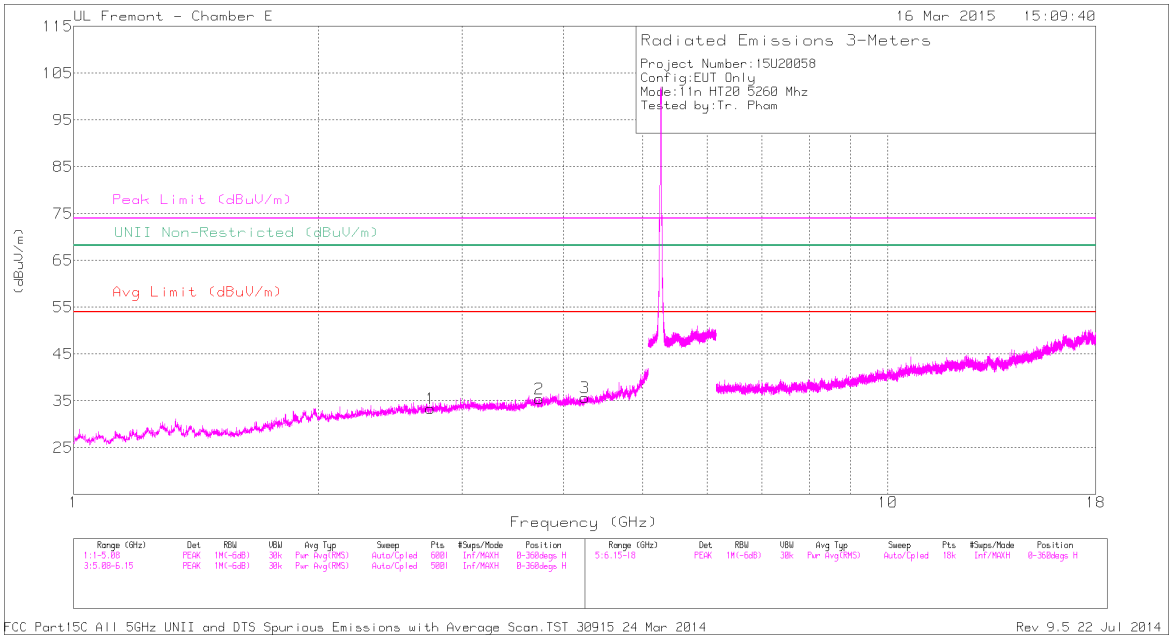
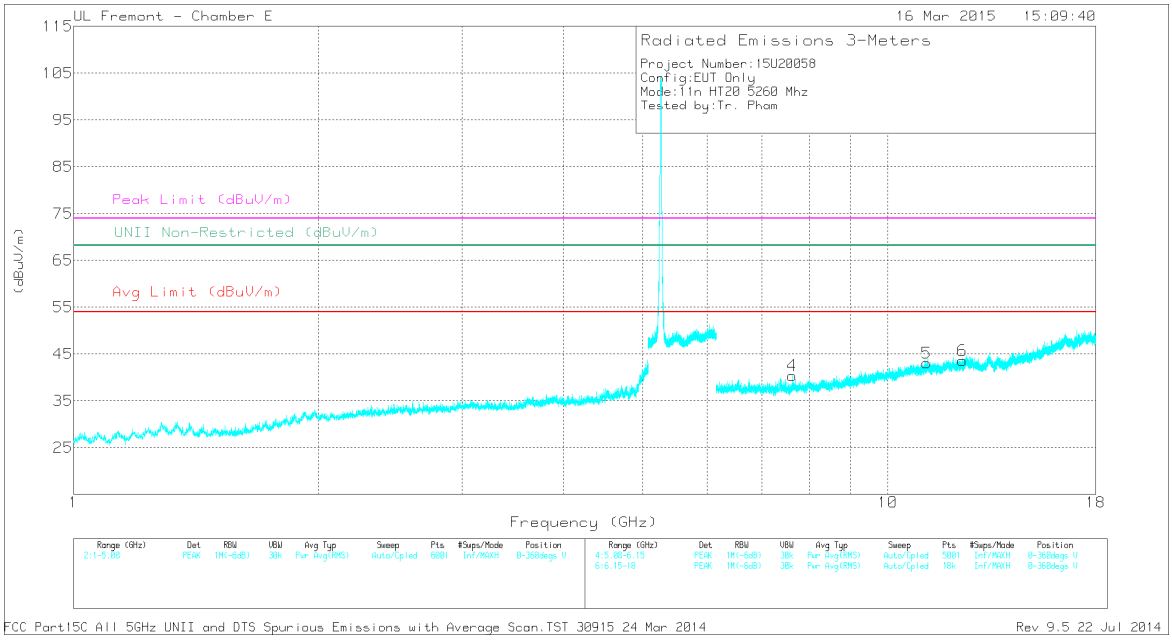
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.743	42.12	PK1	32.4	-32.1	42.42	-	-	74	-31.58	2	101	H
	* 2.744	30.57	AD1	32.4	-32.1	30.87	54	-23.13	-	-	2	101	H
2	* 3.729	42.28	PK1	33.3	-31.8	43.78	-	-	74	-30.22	2	101	H
	* 3.729	30.76	AD1	33.3	-31.8	32.26	54	-21.74	-	-	2	101	H
3	* 4.248	42.07	PK1	33.5	-30.8	44.77	-	-	74	-29.23	2	101	H
	* 4.248	30.26	AD1	33.5	-30.8	32.96	54	-21.04	-	-	2	101	H
4	* 7.633	39.03	PK1	35.7	-27.5	47.23	-	-	74	-26.77	2	101	V
	* 7.632	27.64	AD1	35.7	-27.6	35.74	54	-18.26	-	-	2	101	V
5	* 11.164	36.82	PK1	37.8	-23.9	50.72	-	-	74	-23.28	2	101	V
	* 11.165	25.57	AD1	37.8	-23.8	39.57	54	-14.43	-	-	2	101	V
6	* 12.341	37.47	PK1	38.9	-24.7	51.67	-	-	74	-22.33	2	101	V
	* 12.341	26.43	AD1	38.9	-24.7	40.63	54	-13.37	-	-	2	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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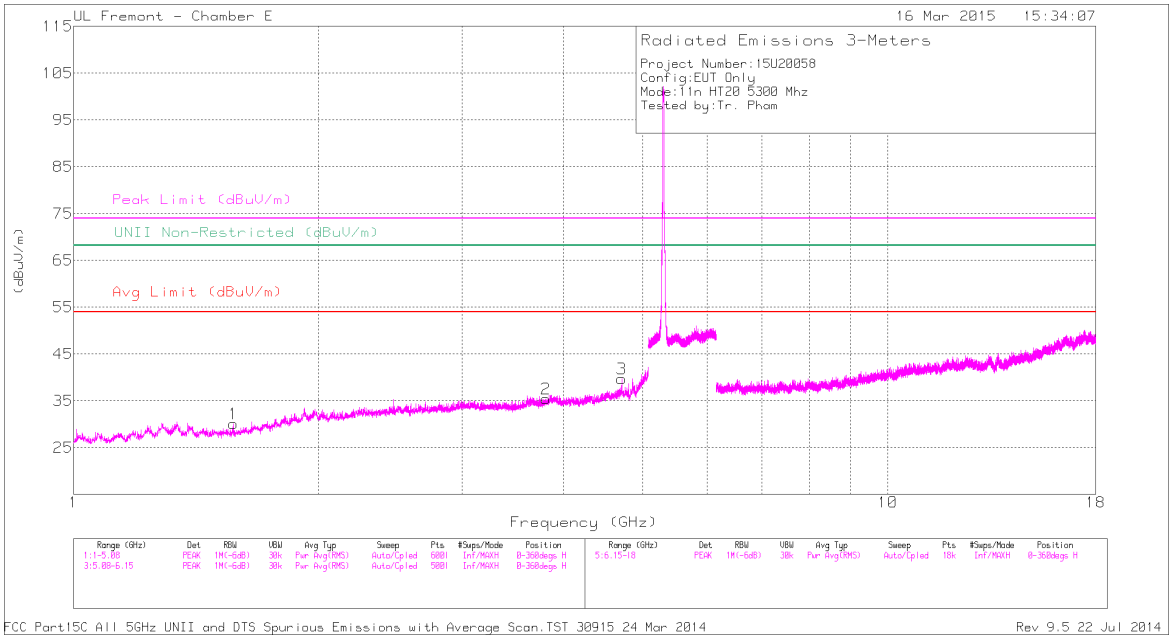
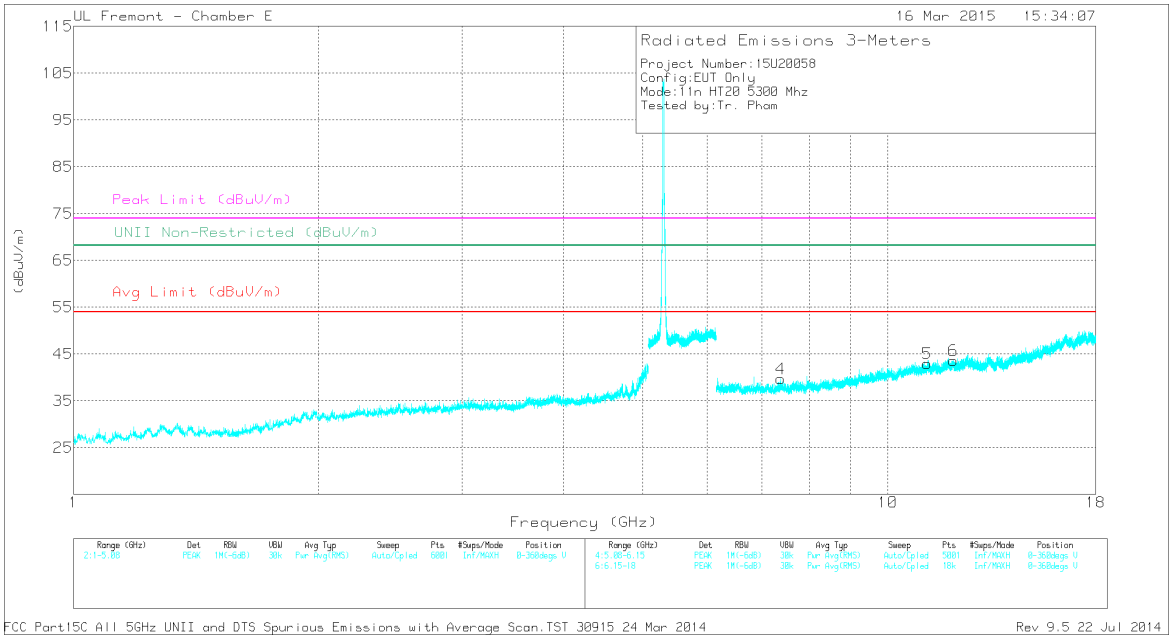
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.571	43.2	PK1	28	-34.2	37	-	-	74	-37	2	101	H
	* 1.57	31.87	AD1	28	-34.2	25.67	54	-28.33	-	-	2	101	H
2	* 3.801	42.64	PK1	33.5	-32	44.14	-	-	74	-29.86	2	101	H
	* 3.801	30.94	AD1	33.5	-32	32.44	54	-21.56	-	-	2	101	H
3	* 4.711	44.1	PK1	34.2	-30.3	48	-	-	74	-26	2	309	H
	* 4.711	33.33	AD1	34.2	-30.3	37.23	54	-16.77	-	-	2	309	H
4	* 7.386	39.63	PK1	35.5	-27.1	48.03	-	-	74	-25.97	2	309	V
	* 7.387	27.43	AD1	35.5	-27.2	35.73	54	-18.27	-	-	2	309	V
5	* 11.18	36.84	PK1	37.8	-23.5	51.14	-	-	74	-22.86	2	309	V
	* 11.18	25.73	AD1	37.8	-23.5	40.03	54	-13.97	-	-	2	309	V
6	* 12.043	37.7	PK1	38.6	-24	52.3	-	-	74	-21.7	2	309	V
	* 12.042	25.89	AD1	38.6	-24	40.49	54	-13.51	-	-	2	309	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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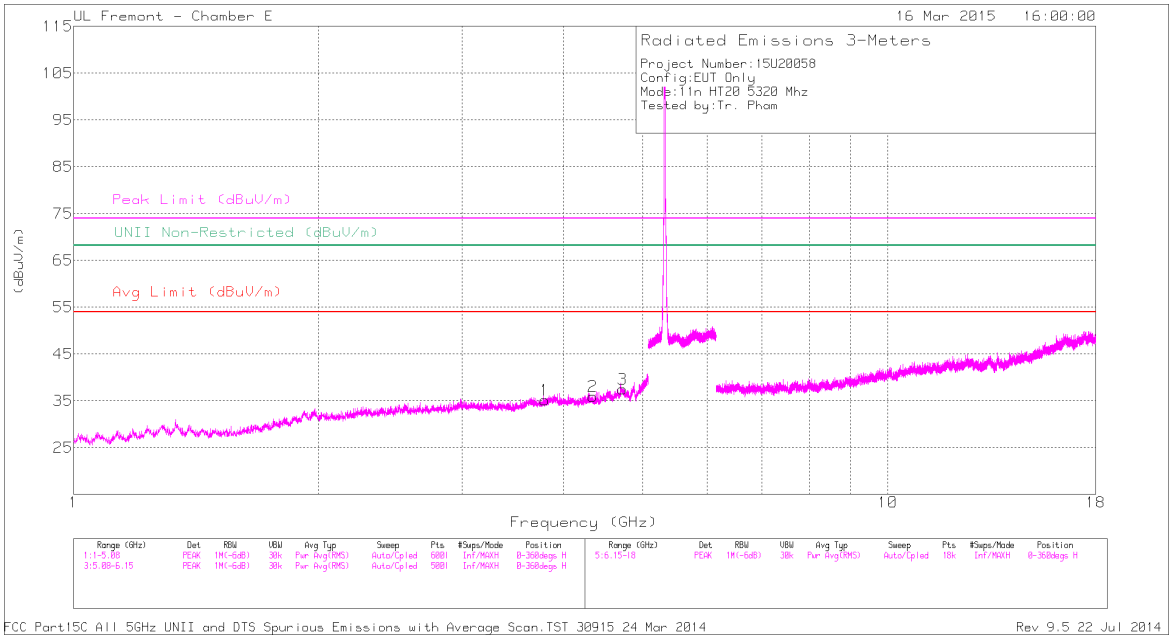
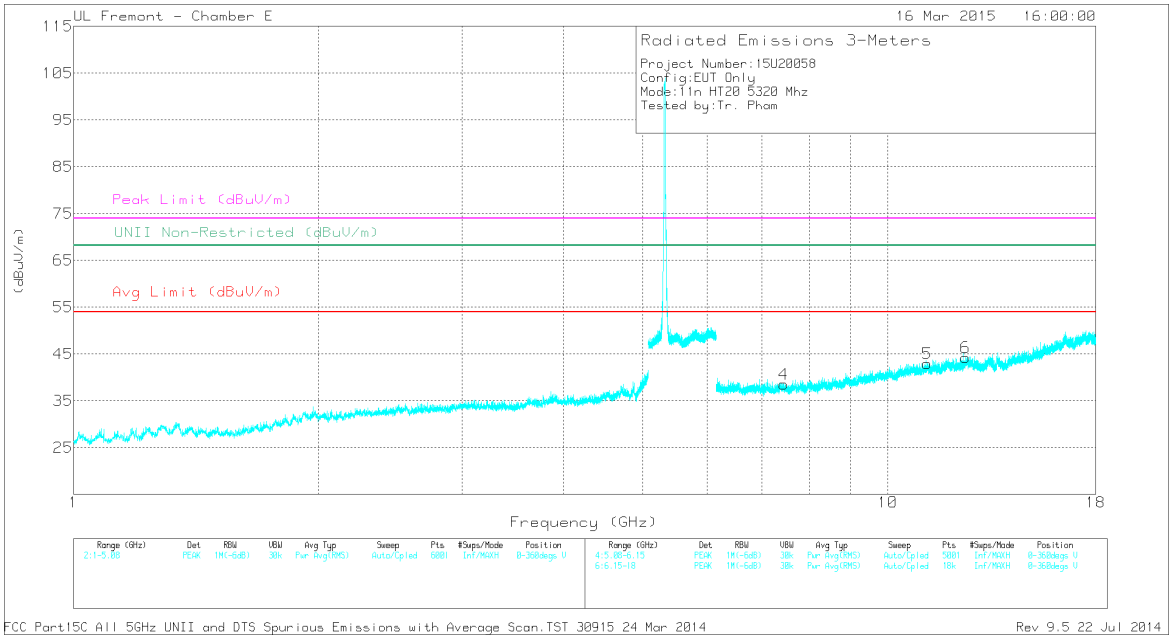
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.791	43.15	PK1	33.5	-32.1	44.55	-	-	74	-29.45	2	100	H
	* 3.793	30.81	AD1	33.5	-32.1	32.21	54	-21.79	-	-	2	100	H
2	* 4.341	42.07	PK1	33.6	-30.9	44.77	-	-	74	-29.23	2	100	H
	* 4.339	30.04	AD1	33.6	-30.9	32.74	54	-21.26	-	-	2	100	H
3	* 4.721	42.89	PK1	34.2	-30.5	46.59	-	-	74	-27.41	2	100	H
	* 4.72	31.26	AD1	34.2	-30.5	34.96	54	-19.04	-	-	2	100	H
4	* 7.453	40.38	PK1	35.6	-28.7	47.28	-	-	74	-26.72	2	100	V
	* 7.453	28.57	AD1	35.6	-28.7	35.47	54	-18.53	-	-	2	100	V
5	* 11.181	36.52	PK1	37.8	-23.5	50.82	-	-	74	-23.18	2	100	V
	* 11.182	25.61	AD1	37.8	-23.4	40.01	54	-13.99	-	-	2	100	V
6	* 12.461	37.79	PK1	38.9	-23.6	53.09	-	-	74	-20.91	2	100	V
	* 12.46	25.8	AD1	38.9	-23.6	41.1	54	-12.9	-	-	2	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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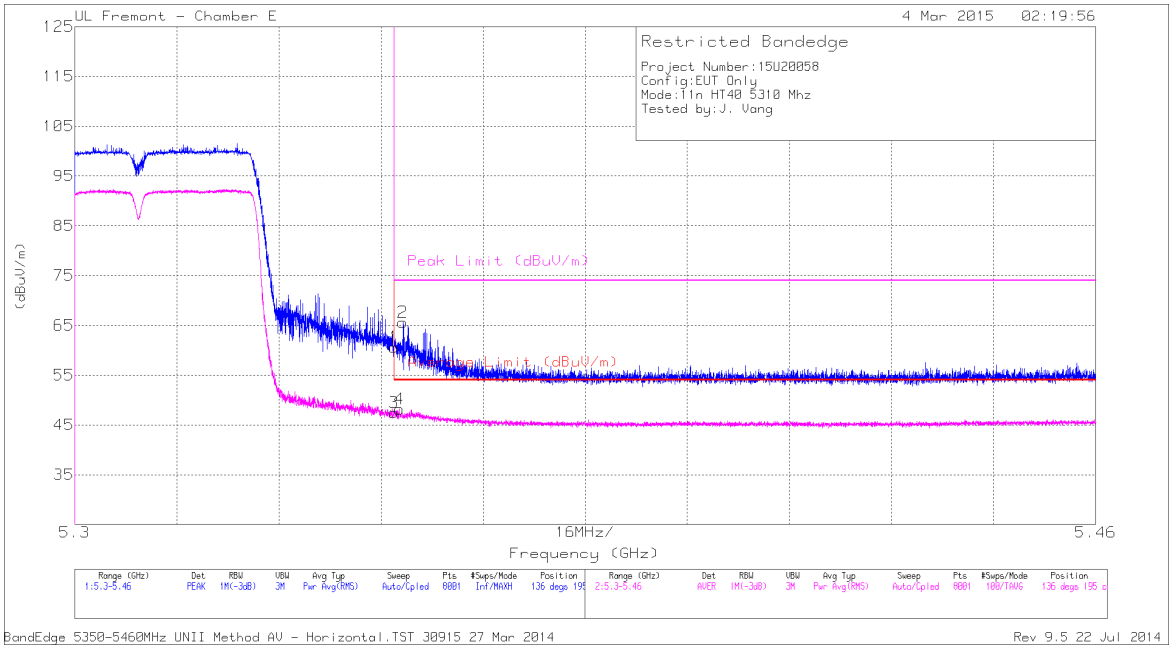
9.6. 802.11n HT40 SISO MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	47.54	PK	34.5	-21.4	0	60.64	-	-	74	-13.36	136	195	H
3	* 5.35	34.31	RMS	34.5	-21.4	.09	47.5	54	-6.5	-	-	136	195	H
2	* 5.351	52.52	PK	34.5	-21.4	0	65.62	-	-	74	-8.38	136	195	H
4	* 5.351	35.02	RMS	34.5	-21.4	.09	48.21	54	-5.79	-	-	136	195	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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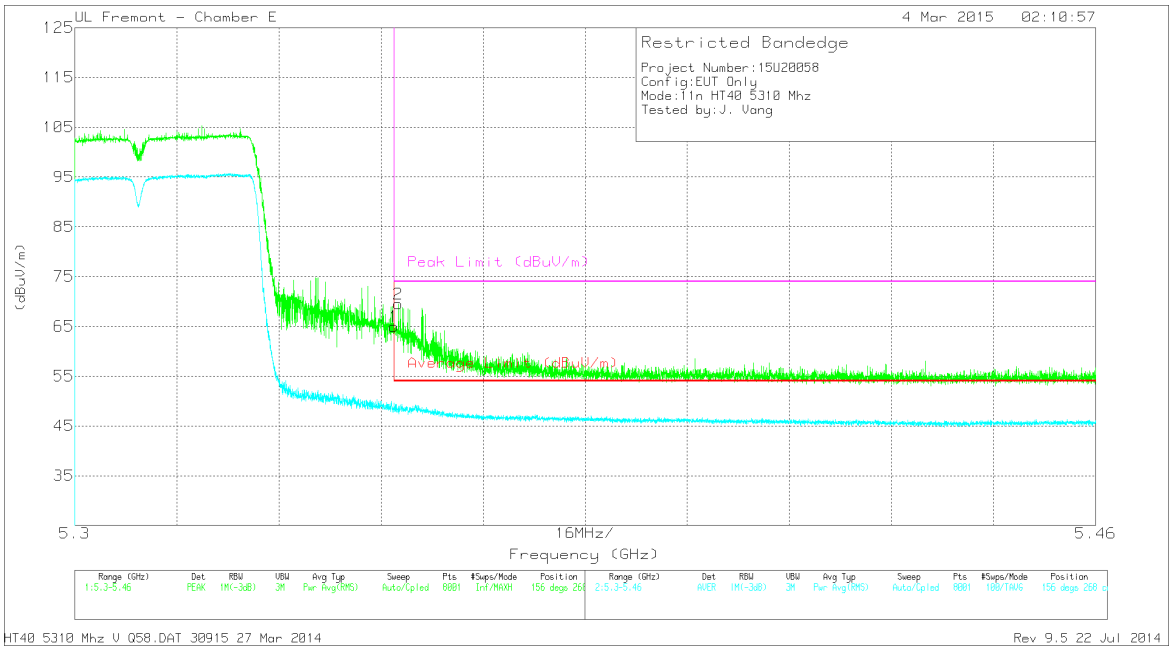
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	51.86	PK	34.5	-21.4	0	64.96	-	-	74	-9.04	156	268	V
3	* 5.35	36.39	RMS	34.5	-21.4	.09	49.58	54	-4.42	-	-	156	268	V
2	* 5.351	56.41	PK	34.5	-21.4	0	69.51	-	-	74	-4.49	156	268	V
4	* 5.351	36.22	RMS	34.5	-21.4	.09	49.41	54	-4.59	-	-	156	268	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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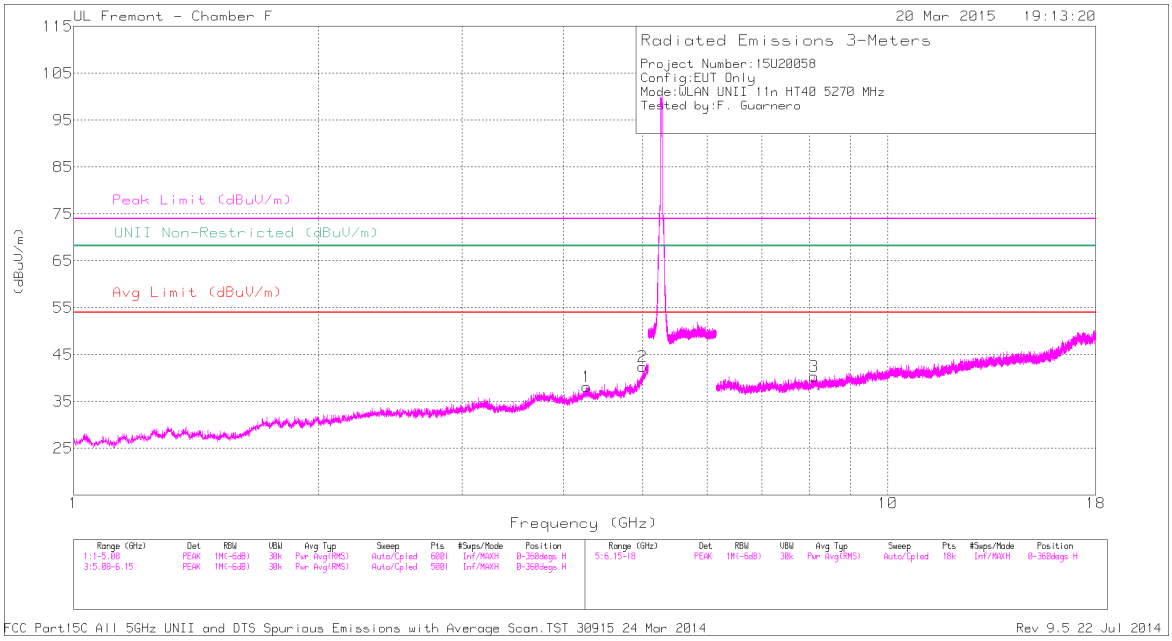
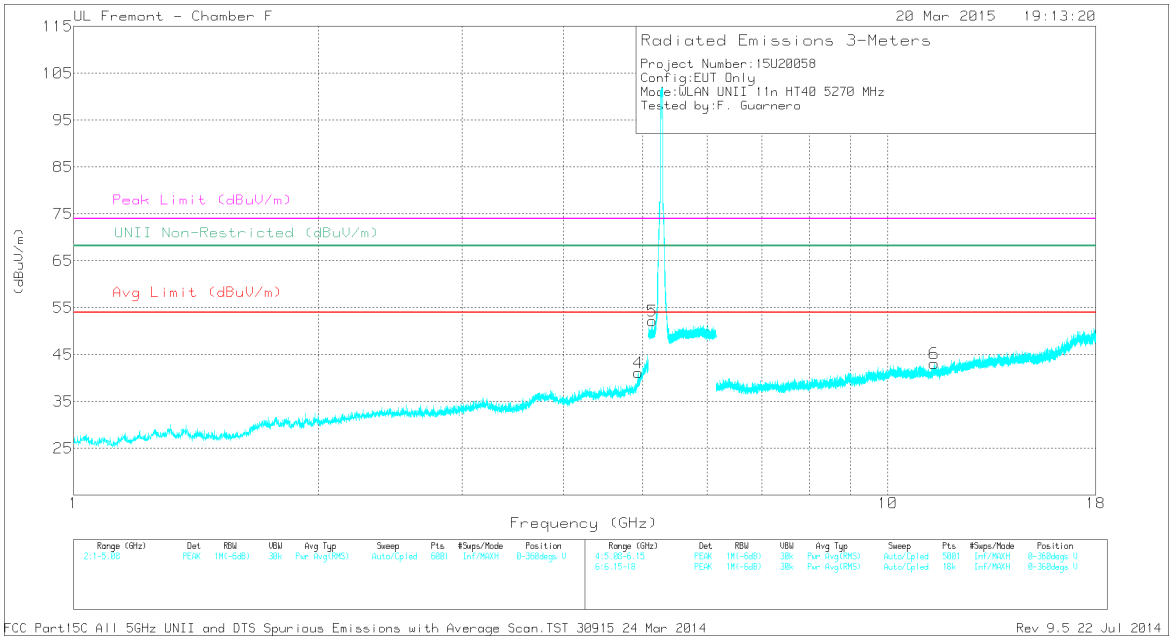
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.265	38.26	PK1	33.4	-26.7	0	44.96	-	-	74	-29.04	-	-	322	167	H
	* 4.266	26.02	AD1	33.4	-26.7	.09	32.81	54	-21.19	-	-	-	-	322	167	H
2	* 4.997	37.8	PK1	33.9	-26.7	0	45	-	-	74	-29	-	-	334	125	H
	* 4.999	26.71	AD1	33.9	-26.7	.09	34	54	-20	-	-	-	-	334	125	H
3	* 8.117	36.25	PK1	35.8	-24.8	0	47.25	-	-	74	-26.75	-	-	138	262	H
	* 8.115	24.88	AD1	35.8	-24.8	.09	35.97	54	-18.03	-	-	-	-	138	262	H
4	* 4.937	37.87	PK1	33.9	-27.1	0	44.67	-	-	74	-29.33	-	-	239	154	V
	* 4.935	26.48	AD1	33.9	-27.1	.09	33.37	54	-20.63	-	-	-	-	239	154	V
5	* 5.14	41.88	PK1	34	-18.6	0	57.28	-	-	74	-16.72	-	-	68	259	V
	* 5.141	30.49	AD1	34	-18.6	.09	45.98	54	-8.02	-	-	-	-	68	259	V
6	* 11.401	34.06	PK1	37.5	-21.4	0	50.16	-	-	74	-23.84	-	-	54	204	V
	* 11.401	22.48	AD1	37.5	-21.4	.09	38.67	54	-15.33	-	-	-	-	54	204	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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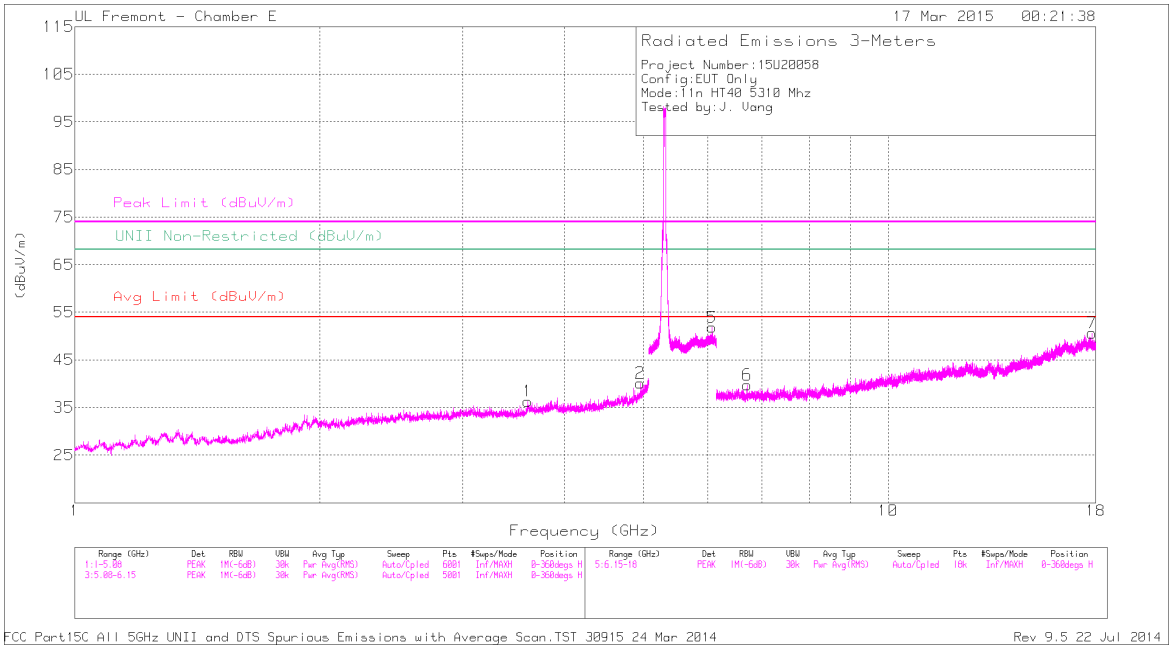
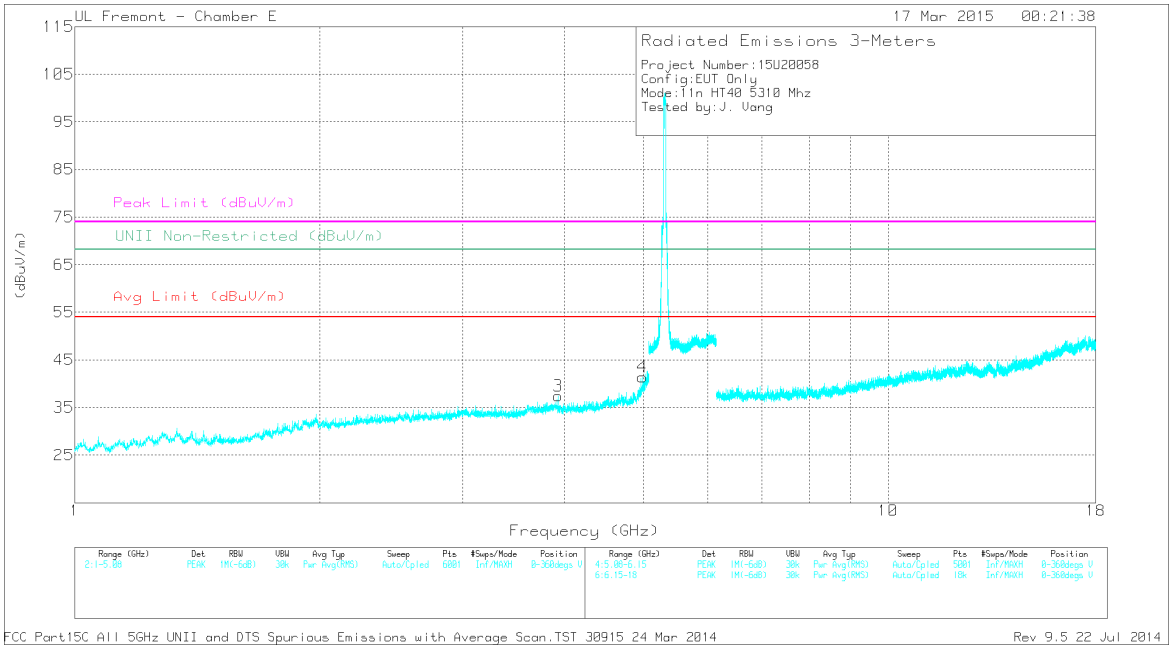
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 3.604	41.89	PK1	33	-31.1	0	43.79	-	-	74	-30.21	-	-	101	333	H
	* 3.604	29.85	AD1	33	-31.1	.09	31.84	54	-22.16	-	-	-	-	101	333	H
2	* 4.954	42.54	PK1	34.1	-29.7	0	46.94	-	-	74	-27.06	-	-	127	203	H
	* 4.954	31.17	AD1	34.1	-29.7	.09	35.66	54	-18.34	-	-	-	-	127	203	H
3	* 3.931	41.32	PK1	33.5	-30.8	0	44.02	-	-	74	-29.98	-	-	106	392	V
	* 3.929	29.3	AD1	33.5	-30.7	.09	32.19	54	-21.81	-	-	-	-	106	392	V
4	* 4.987	44.17	PK1	34.2	-29.2	0	49.17	-	-	74	-24.83	-	-	148	231	V
	* 4.987	32.64	AD1	34.2	-29.2	.09	37.73	54	-16.27	-	-	-	-	148	231	V
7	* 17.817	37.58	PK1	41.1	-20.2	0	58.48	-	-	74	-15.52	-	-	295	214	H
	* 17.818	24.58	AD1	41.1	-20.1	.09	45.67	54	-8.33	-	-	-	-	295	214	H
5	6.073	42.95	PK1	35.2	-20.2	0	57.95	-	-	-	-	68.2	-10.25	65	133	H
6	6.711	39.25	PK1	35.6	-29.2	0	45.65	-	-	-	-	68.2	-22.55	200	101	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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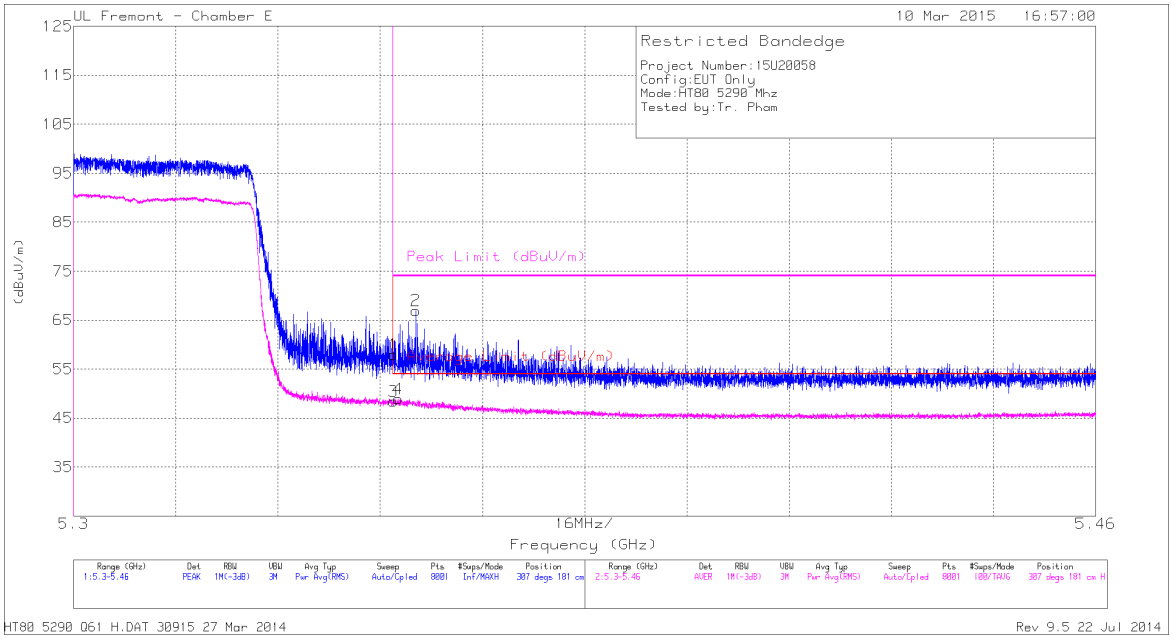
9.7. 802.11ac 80MHz 1TX SISO MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL, CH 58)

CHANNEL 58 HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.9	PK	34.5	-21.4	0	58	-	-	74	-16	307	181	H
2	* 5.354	53.89	PK	34.5	-21.4	0	66.99	-	-	74	-7.01	307	181	H
3	* 5.35	35.38	RMS	34.5	-21.4	.2	48.67	54	-5.34	-	-	307	181	H
4	* 5.351	35.85	RMS	34.5	-21.4	.2	49.15	54	-4.85	-	-	307	181	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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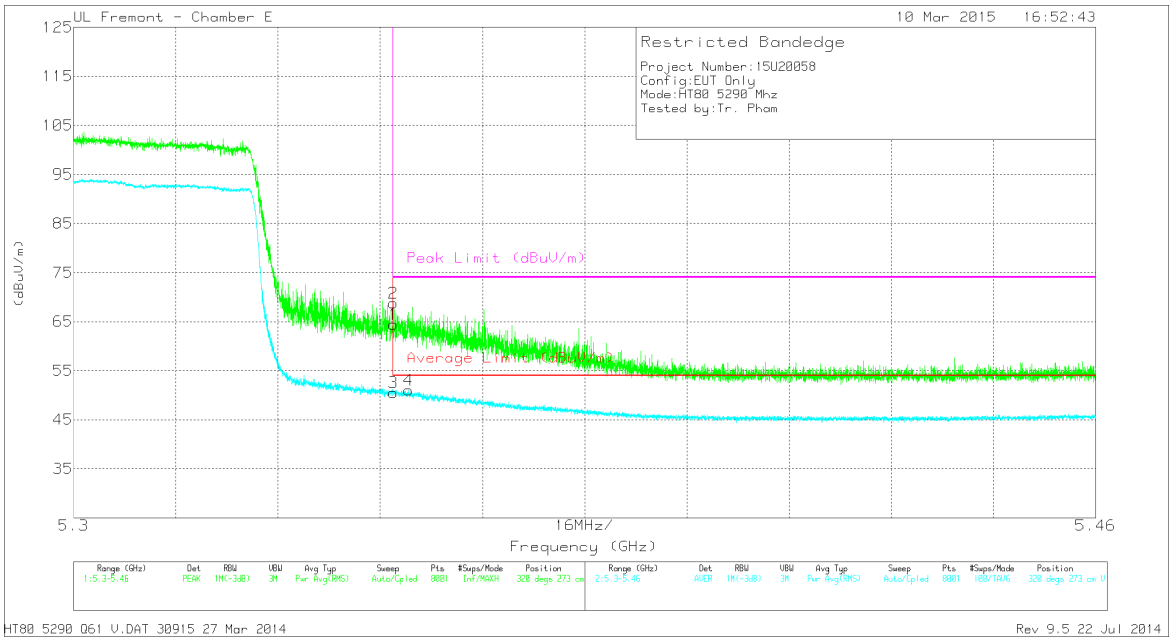
CHANNEL 58 VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	51.36	PK	34.5	-21.4	0	64.46	-	-	74	-9.54	320	273	V
2	* 5.35	55.7	PK	34.5	-21.4	0	68.8	-	-	74	-5.2	320	273	V
3	* 5.35	37.49	RMS	34.5	-21.4	.2	50.79	54	-3.21	-	-	320	273	V
4	* 5.352	37.97	RMS	34.5	-21.4	.2	51.27	54	-2.73	-	-	320	273	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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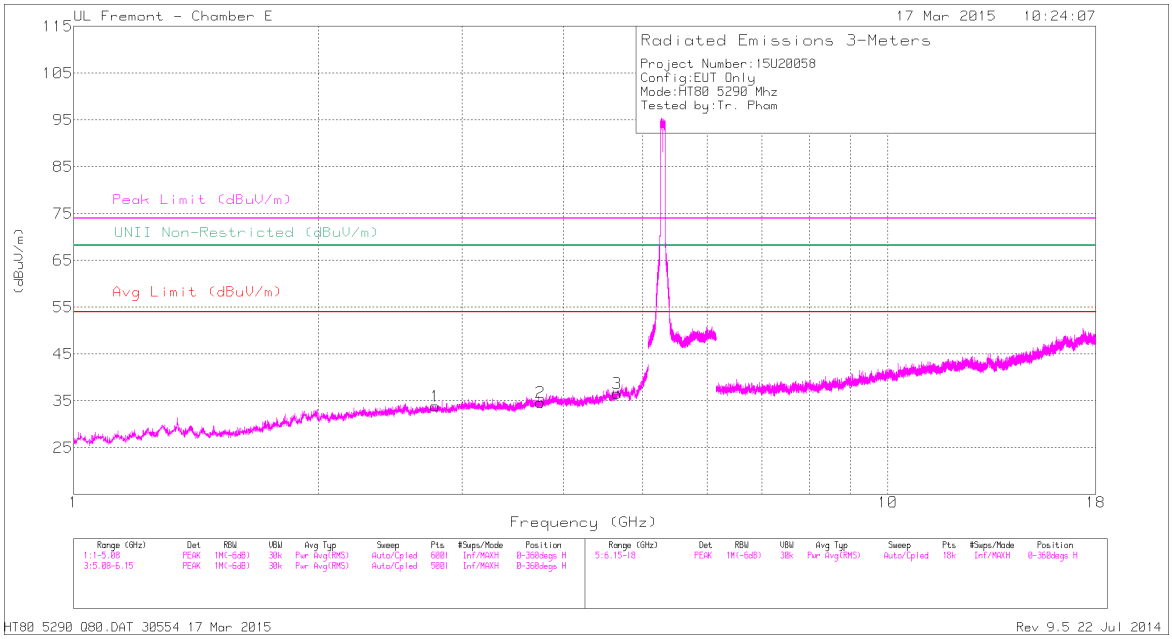
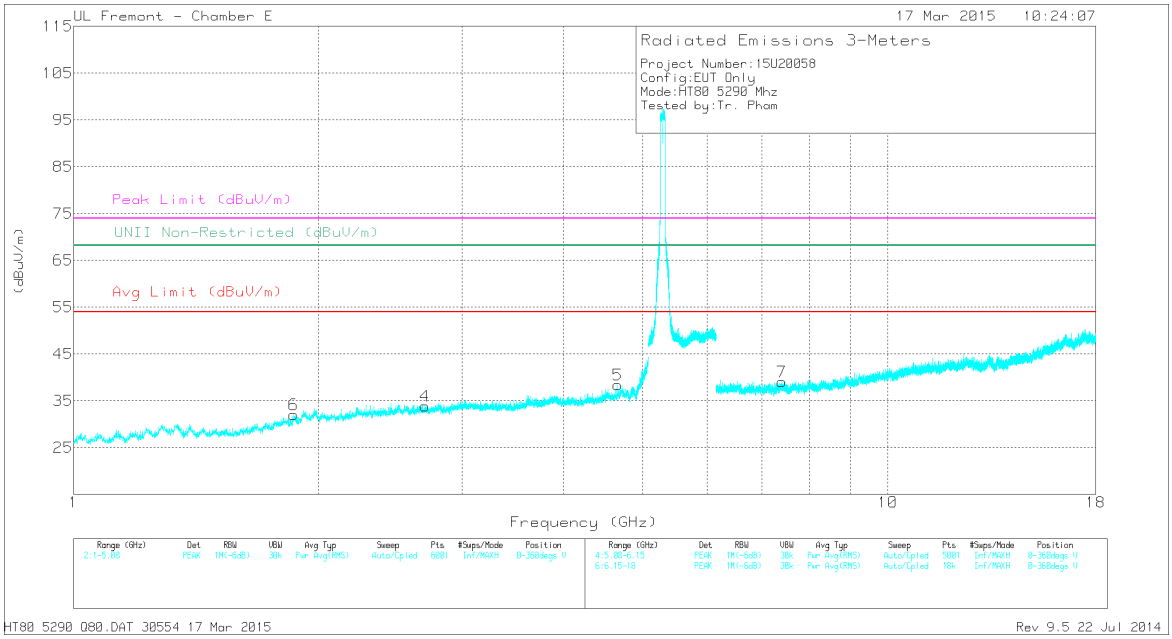
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.783	42.17	PK1	32.4	-32	0	42.57	-	-	74	-31.43	-	-	360	101	H
	* 2.781	30.38	AD1	32.4	-32	.2	30.98	54	-23.02	-	-	-	-	360	101	H
2	* 3.744	42.19	PK1	33.3	-32	0	43.49	-	-	74	-30.51	-	-	360	101	H
	* 3.744	30.63	AD1	33.3	-32	.2	32.13	54	-21.87	-	-	-	-	360	101	H
3	* 4.647	40.87	PK1	34.1	-29.8	0	45.17	-	-	74	-28.83	-	-	360	101	H
	* 4.647	29.36	AD1	34.1	-29.8	.2	33.86	54	-20.14	-	-	-	-	360	101	H
4	* 2.704	42.34	PK1	32.4	-32.4	0	42.34	-	-	74	-31.66	-	-	360	101	V
	* 2.703	30.92	AD1	32.4	-32.4	.2	31.12	54	-22.88	-	-	-	-	360	101	V
5	* 4.656	41.35	PK1	34.1	-29.7	0	45.75	-	-	74	-28.25	-	-	360	101	V
	* 4.657	29.5	AD1	34.1	-29.7	.2	34.1	54	-19.9	-	-	-	-	360	101	V
7	* 7.405	38.75	PK1	35.5	-27.6	0	46.65	-	-	74	-27.35	-	-	360	101	V
	* 7.405	27.63	AD1	35.5	-27.6	.2	35.73	54	-18.27	-	-	-	-	360	101	V
6	1.862	43.51	PK1	30.6	-33.7	0	40.41	-	-	-	-	68.2	-27.79	360	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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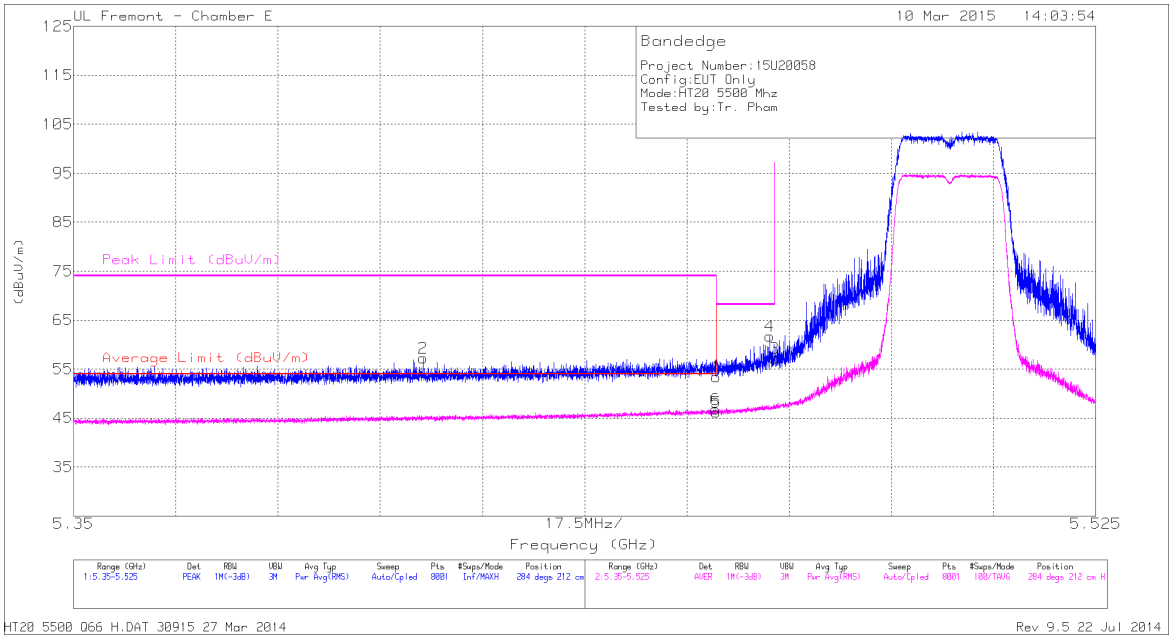
9.8. 802.11n HT20 SISO MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/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	39.6	PK	34.6	-20.8	53.4	-	-	74	-20.6	284	212	H
2	* 5.41	43.73	PK	34.6	-21.1	57.23	-	-	74	-16.77	284	212	H
5	* 5.46	32.38	RMS	34.6	-20.8	46.18	54	-7.82	-	-	284	212	H
6	* 5.46	32.96	RMS	34.6	-20.8	46.76	54	-7.24	-	-	284	212	H
4	5.469	47.97	PK	34.6	-20.8	61.77	-	-	68.2	-6.43	284	212	H
3	5.47	43.48	PK	34.6	-20.8	57.28	-	-	68.2	-10.92	284	212	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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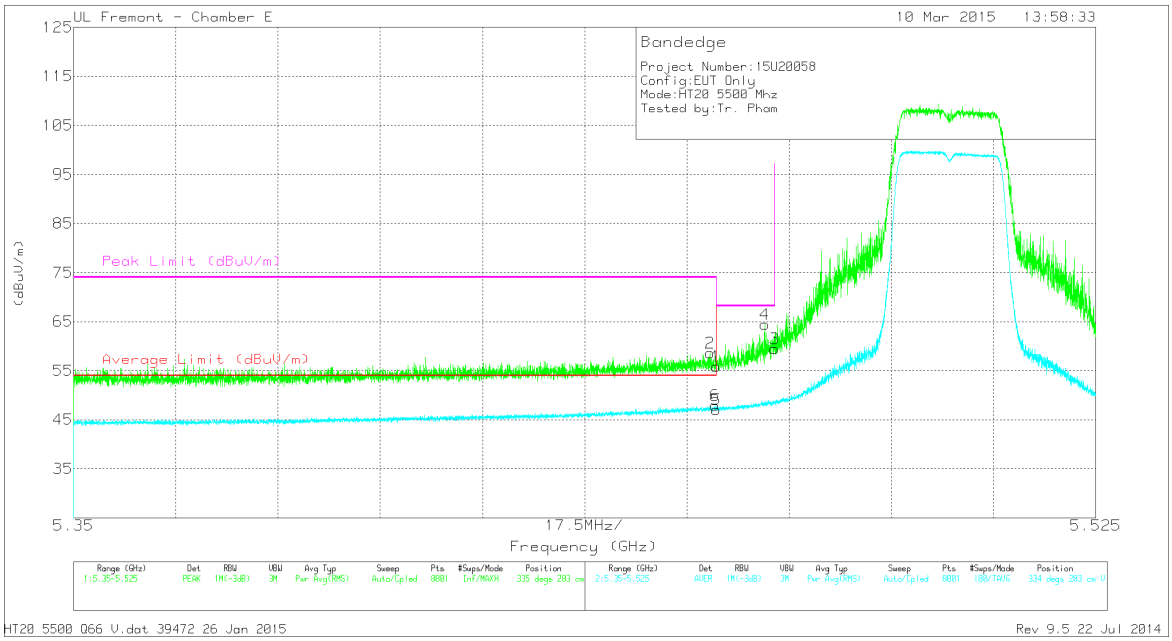
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/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	42.12	PK	34.6	-20.8	55.92	-	-	74	-18.08	335	283	V
2	* 5.459	44.85	PK	34.6	-20.8	58.65	-	-	74	-15.35	335	283	V
5	* 5.46	33.21	RMS	34.6	-20.8	47.01	54	-6.99	-	-	334	283	V
6	* 5.46	34.12	RMS	34.6	-20.8	47.92	54	-6.08	-	-	334	283	V
4	5.468	50.65	PK	34.6	-20.8	64.45	-	-	68.2	-3.75	335	283	V
3	5.47	45.65	PK	34.6	-20.8	59.45	-	-	68.2	-8.75	335	283	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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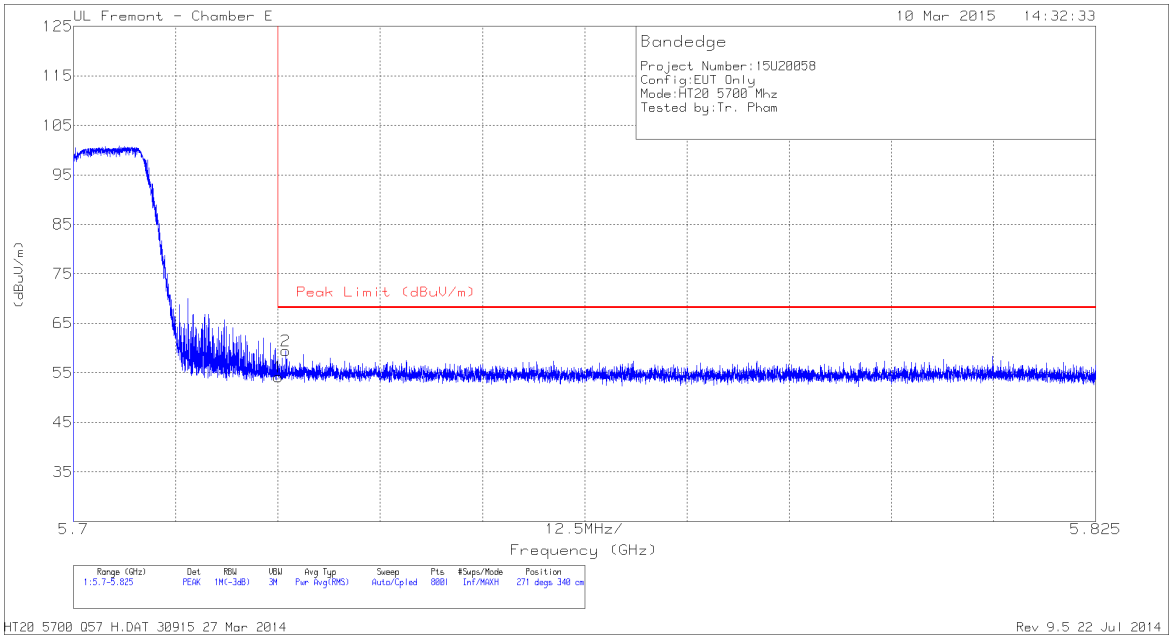
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	40.3	PK	34.7	-20.8	54.2	68.2	-14	271	340	H
2	5.726	45.51	PK	34.7	-20.8	59.41	68.2	-8.79	271	340	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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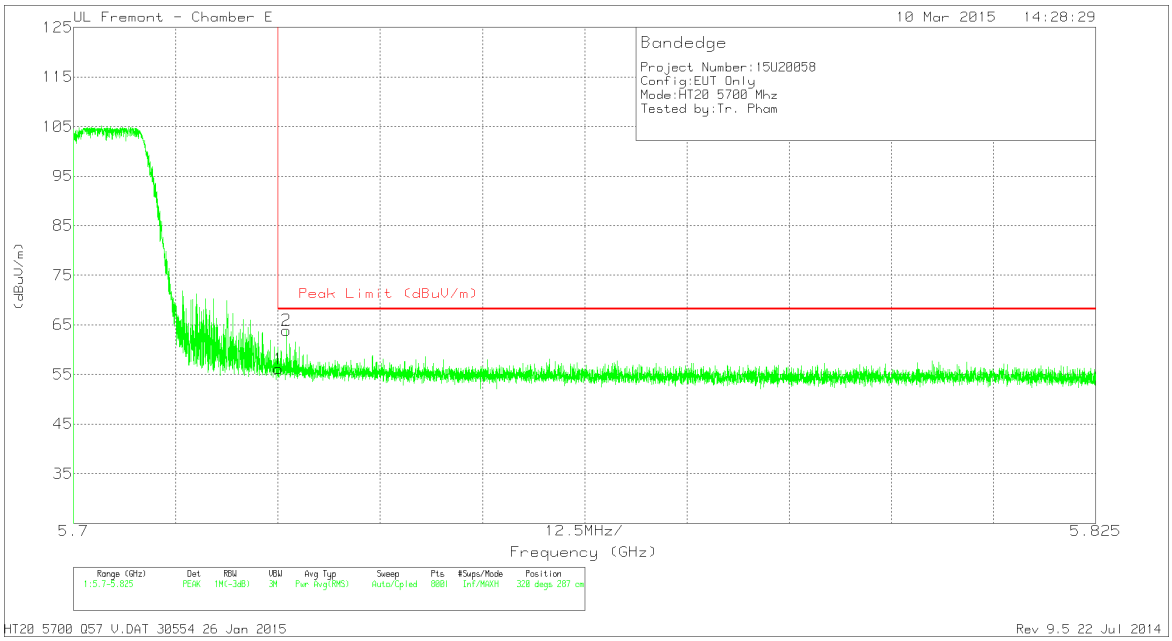
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	42.23	PK	34.7	-20.8	56.13	68.2	-12.07	320	287	V
2	5.726	50.03	PK	34.7	-20.8	63.93	68.2	-4.27	320	287	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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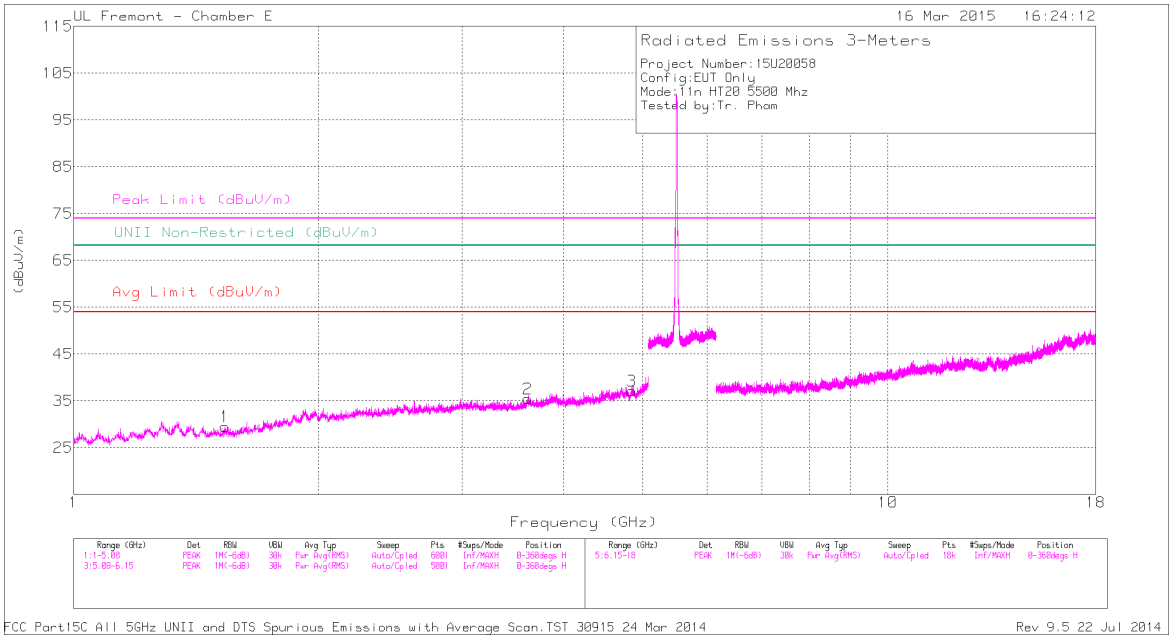
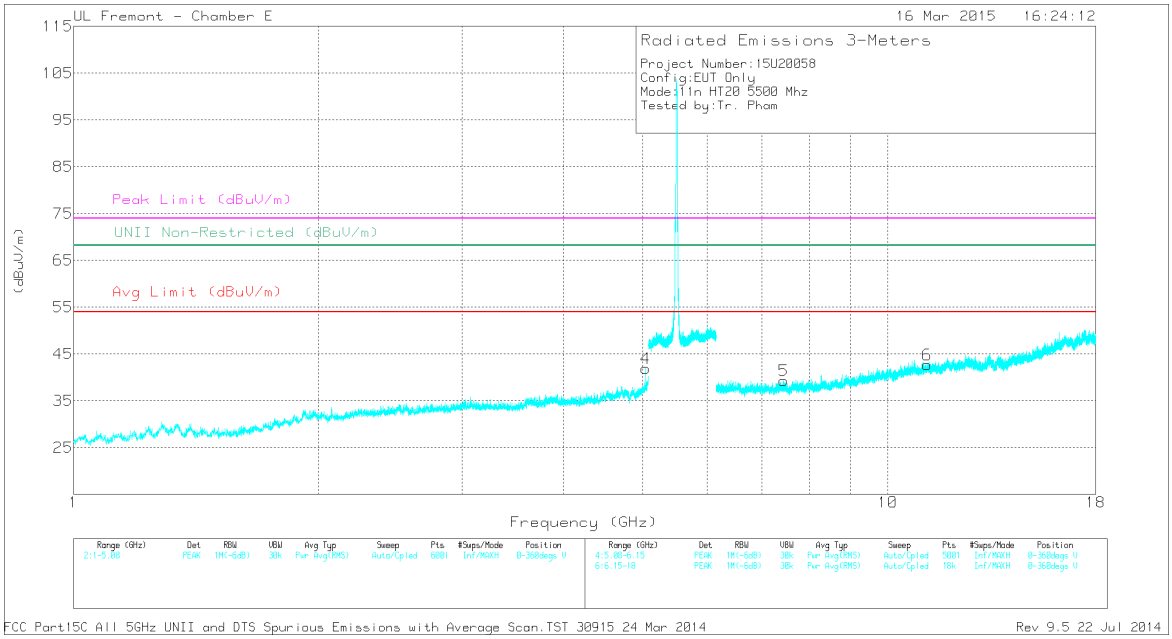
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.534	43.78	PK1	28.1	-34.5	37.38	-	-	74	-36.62	2	101	H
	* 1.534	32.35	AD1	28.1	-34.5	25.95	54	-28.05	-	-	2	101	H
2	* 3.613	41.41	PK1	33.1	-30.9	43.61	-	-	74	-30.39	2	101	H
	* 3.615	30.17	AD1	33.1	-30.9	32.37	54	-21.63	-	-	2	101	H
3	* 4.847	41.27	PK1	34.1	-30.4	44.97	-	-	74	-29.03	2	101	H
	* 4.846	30.15	AD1	34.1	-30.4	33.85	54	-20.15	-	-	2	101	H
4	* 5.041	46.2	PK1	34.2	-28.8	51.6	-	-	74	-22.4	145	268	V
	* 5.042	35.17	AD1	34.2	-28.8	40.57	54	-13.43	-	-	145	268	V
5	* 7.445	39.84	PK1	35.6	-28.6	46.84	-	-	74	-27.16	145	268	V
	* 7.444	28.53	AD1	35.6	-28.6	35.53	54	-18.47	-	-	145	268	V
6	* 11.184	37.4	PK1	37.8	-23.4	51.8	-	-	74	-22.2	145	268	V
	* 11.185	25.7	AD1	37.8	-23.4	40.1	54	-13.9	-	-	145	268	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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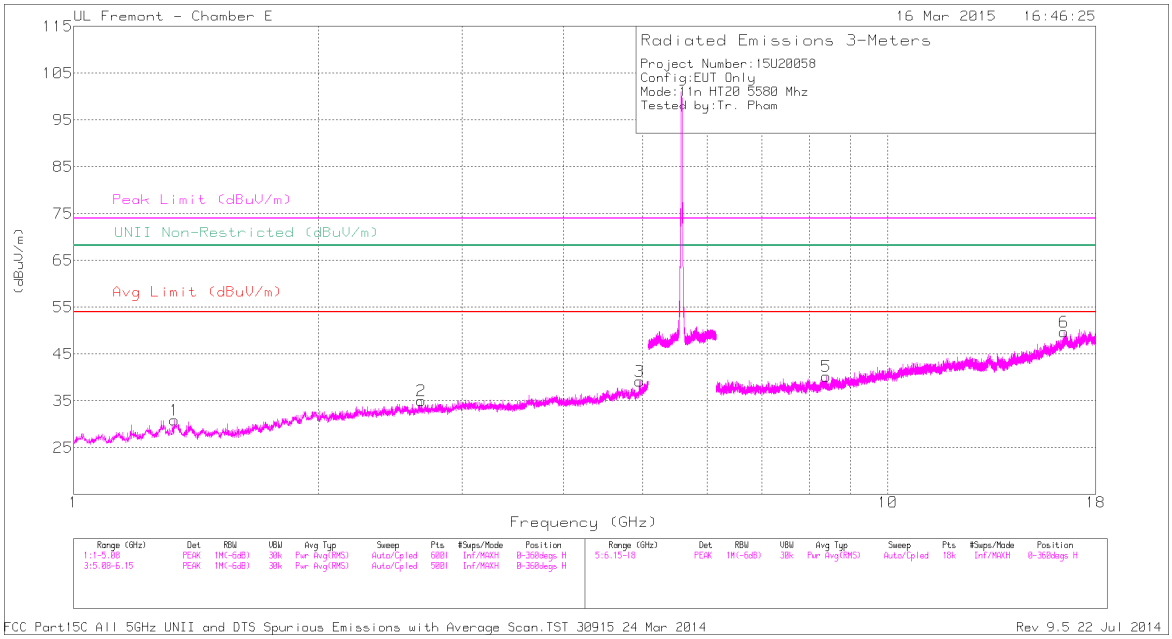
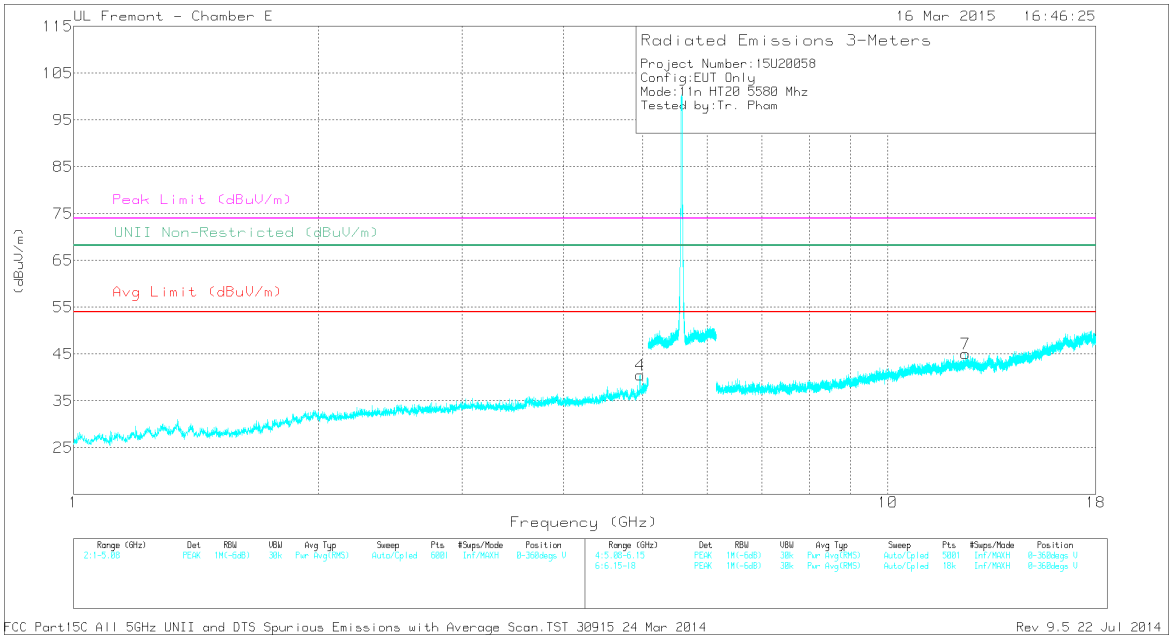
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.329	43.16	PK1	28.9	-34	38.06	-	-	74	-35.94	-	-	161	200	H
	* 1.332	31.6	AD1	28.9	-34	26.5	54	-27.5	-	-	-	-	161	200	H
2	* 2.673	41.64	PK1	32.4	-32.4	41.64	-	-	74	-32.36	-	-	28	112	H
	* 2.673	30.26	AD1	32.4	-32.4	30.26	54	-23.74	-	-	-	-	28	112	H
3	* 4.96	41.48	PK1	34.1	-29.7	45.88	-	-	74	-28.12	-	-	169	114	H
	* 4.96	31.79	AD1	34.1	-29.7	36.19	54	-17.81	-	-	-	-	169	114	H
4	* 4.96	44.24	PK1	34.1	-29.7	48.64	-	-	74	-25.36	-	-	149	255	V
	* 4.96	35.36	AD1	34.1	-29.7	39.76	54	-14.24	-	-	-	-	149	255	V
5	* 8.409	38.09	PK1	35.8	-26.9	46.99	-	-	74	-27.01	-	-	49	200	H
	* 8.409	26.57	AD1	35.8	-26.9	35.47	54	-18.53	-	-	-	-	49	200	H
7	* 12.451	37.25	PK1	38.9	-23.7	52.45	-	-	74	-21.55	-	-	115	200	V
	* 12.451	25.11	AD1	38.9	-23.6	40.41	54	-13.59	-	-	-	-	115	200	V
6	16.459	36.25	PK1	41.2	-20.9	56.55	-	-	-	-	68.2	-11.65	73	102	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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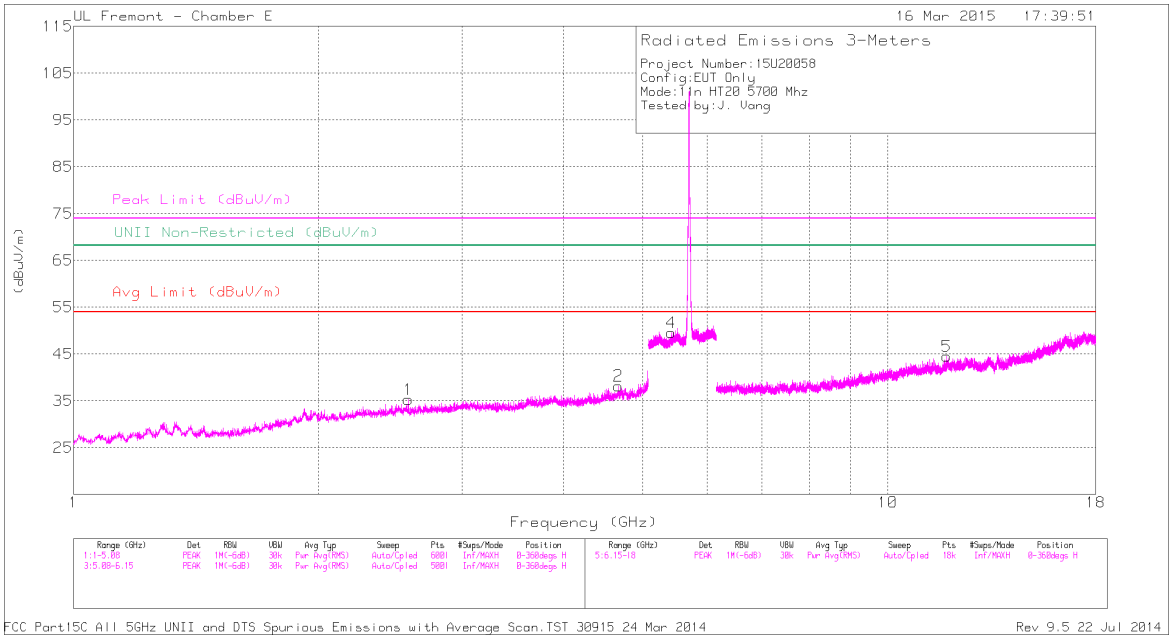
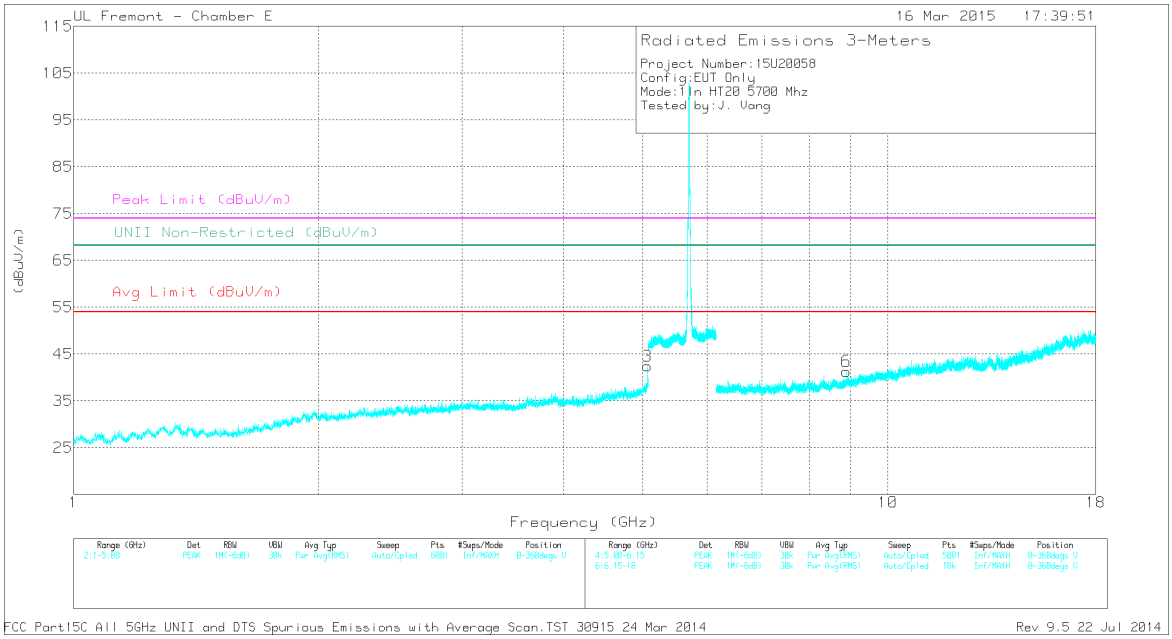
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.664	40.87	PK1	34.1	-29.7	45.27	-	-	74	-28.73	-	-	12	287	H
	* 4.667	29.21	AD1	34.1	-29.7	33.61	54	-20.39	-	-	-	-	12	287	H
3	* 5.067	40.95	PK1	34.2	-28.1	47.05	-	-	74	-26.95	-	-	336	235	V
	* 5.065	29.16	AD1	34.2	-28.2	35.16	54	-18.84	-	-	-	-	336	235	V
4	* 5.425	42.67	PK1	34.6	-21.1	56.17	-	-	74	-17.83	-	-	29	194	H
	* 5.424	31.44	AD1	34.6	-21.1	44.94	54	-9.06	-	-	-	-	29	194	H
5	* 11.801	36.71	PK1	38.3	-23.7	51.31	-	-	74	-22.69	-	-	230	101	H
	* 11.798	24.95	AD1	38.3	-23.7	39.55	54	-14.45	-	-	-	-	230	101	H
1	2.575	42.44	PK1	32.3	-32.9	41.84	-	-	-	-	68.2	-26.36	360	101	H
6	8.89	37.5	PK1	36.2	-26.1	47.6	-	-	-	-	68.2	-20.6	322	200	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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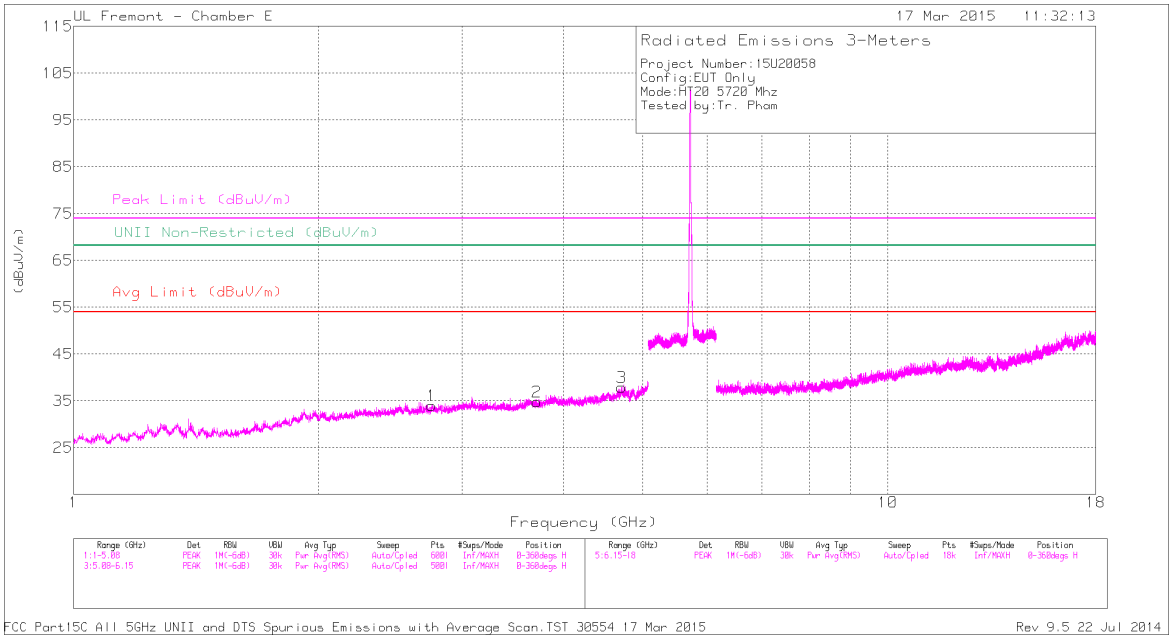
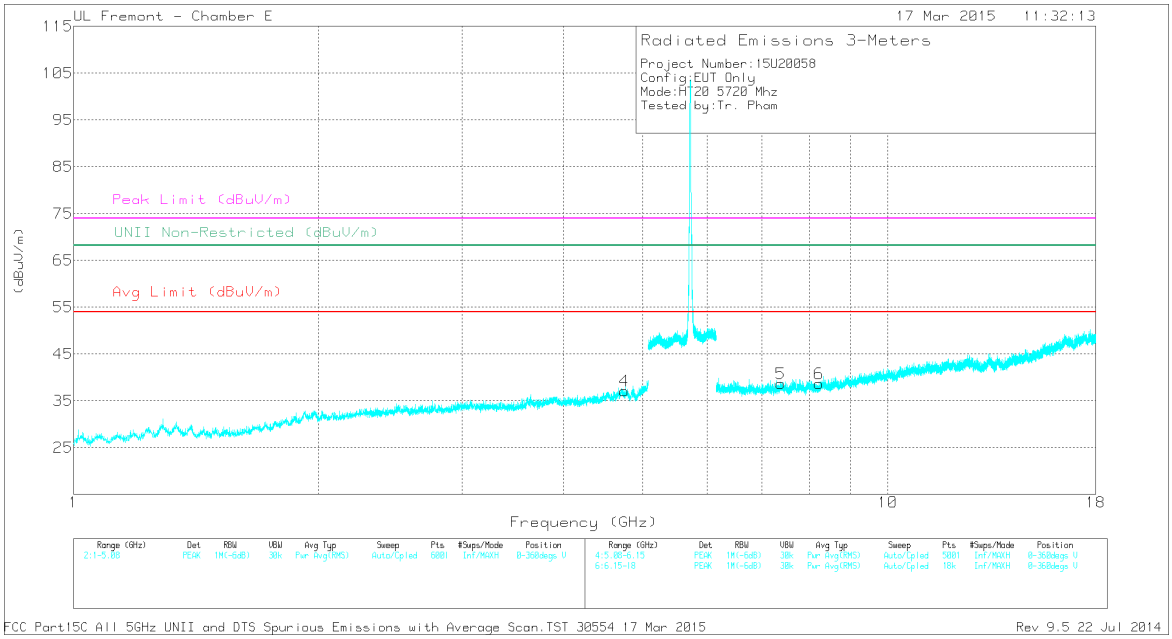
CHANNEL 144 HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.751	41.83	PK1	32.4	-32.2	42.03	-	-	74	-31.97	2	100	H
	* 2.741	30.36	AD1	32.4	-32.2	30.56	54	-23.44			2	100	H
2	* 3.704	41.96	PK1	33.2	-31.7	43.46	-	-	74	-30.54	2	100	H
	* 3.791	31.35	AD1	33.2	-31.7	32.85	54	-21.15			2	100	H
3	* 4.711	42.6	PK1	34.2	-30.3	46.5	-	-	74	-27.5	2	100	H
	* 4.677	31.69	AD1	34.2	-30.3	35.59	54	18.41			2	100	H
4	* 4.743	42.73	PK1	34.1	-30.6	46.23	-	-	74	-27.77	2	100	V
	* 4.625	30.61	AD1	34.1	-30.6	34.11	54	-19.89			2	100	V
5	* 7.384	39.66	PK1	35.5	-27.1	48.06	-	-	74	-25.94	2	100	V
	* 7.492	30.85	AD1	35.5	-27.1	39.25	54	-14.75			2	100	V
6	* 8.235	38.55	PK1	35.7	-27.5	46.75	-	-	74	-27.25	2	100	V
	* 8.095	26.96	AD1	35.7	-27.5	35.16	54	-18.84			2	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

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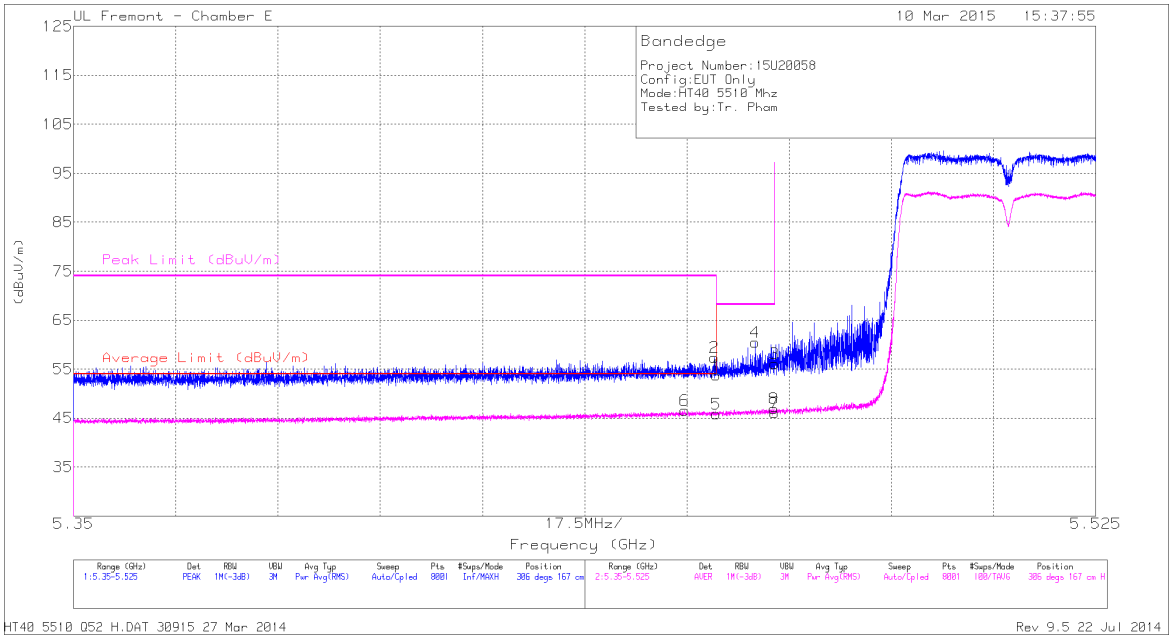
9.9. 802.11n HT40 SISO MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.92	PK	34.6	-20.8	0	53.72	-	-	74	-20.28	306	167	H
2	* 5.46	43.55	PK	34.6	-20.8	0	57.35	-	-	74	-16.65	306	167	H
5	* 5.46	32	RMS	34.6	-20.8	.09	45.89	54	-8.11	-	-	306	167	H
6	* 5.455	32.72	RMS	34.6	-20.8	.09	46.61	54	-7.39	-	-	306	167	H
4	5.467	46.63	PK	34.6	-20.8	0	60.43	-	-	68.2	-7.77	306	167	H
3	5.47	42.34	PK	34.6	-20.8	0	56.14	-	-	68.2	-12.06	306	167	H
7	5.47	32.32	RMS	34.6	-20.8	0	46.12	-	-	-	-	306	167	H
8	5.47	33.18	RMS	34.6	-20.8	0	46.98	-	-	-	-	306	167	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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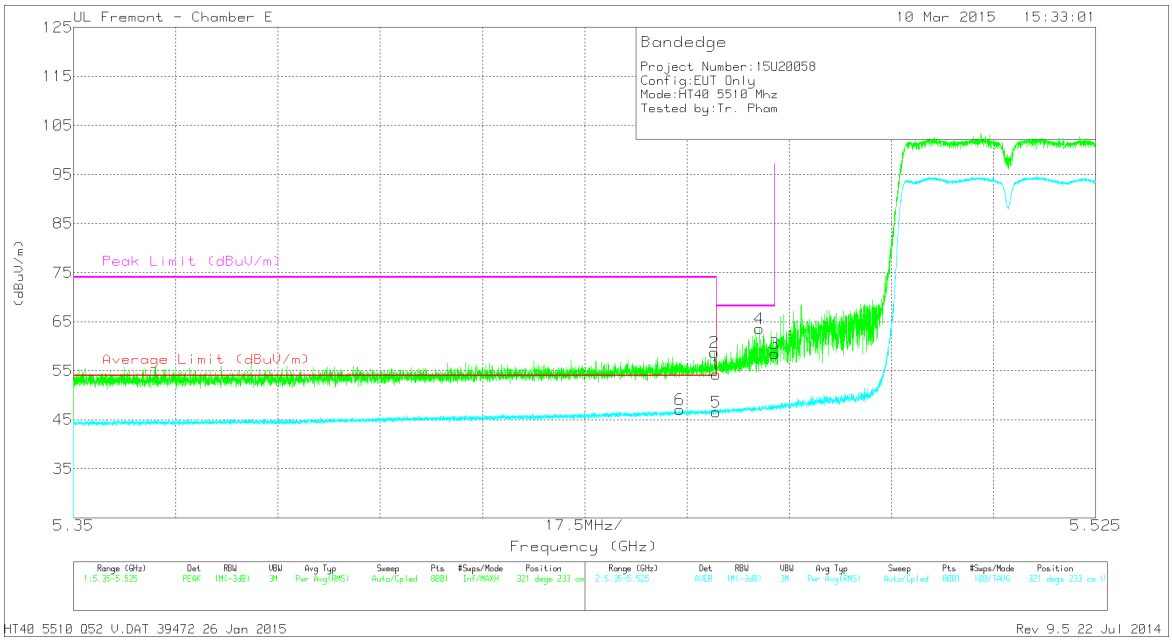
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	40.49	PK	34.6	-20.8	0	54.29	-	-	74	-19.71	321	233	V
2	* 5.46	44.92	PK	34.6	-20.8	0	58.72	-	-	74	-15.28	321	233	V
5	* 5.46	32.79	RMS	34.6	-20.8	.09	46.68	54	-7.32	-	-	321	233	V
6	* 5.454	33.29	RMS	34.6	-20.8	.09	47.18	54	-6.82	-	-	321	233	V
4	5.467	49.77	PK	34.6	-20.8		63.57	-	-	68.2	-4.63	321	233	V
3	5.47	44.67	PK	34.6	-20.8		58.47	-	-	68.2	-9.73	321	233	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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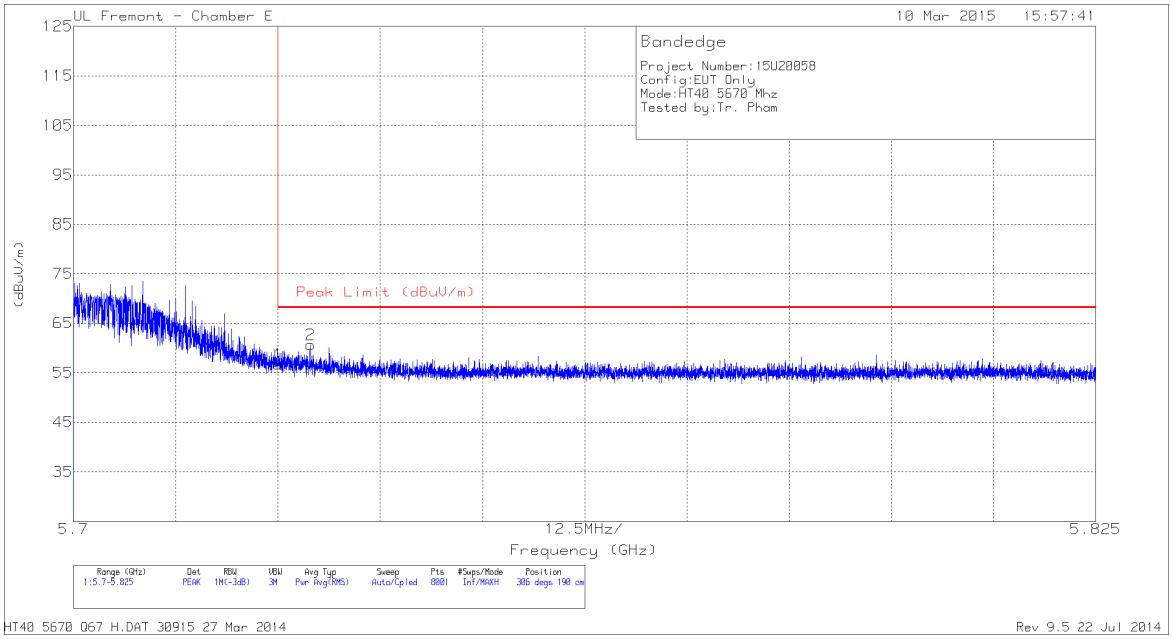
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.9	PK	34.7	-20.8	56.8	68.2	-11.4	306	190	H
2	5.729	46.72	PK	34.7	-20.7	60.72	68.2	-7.48	306	190	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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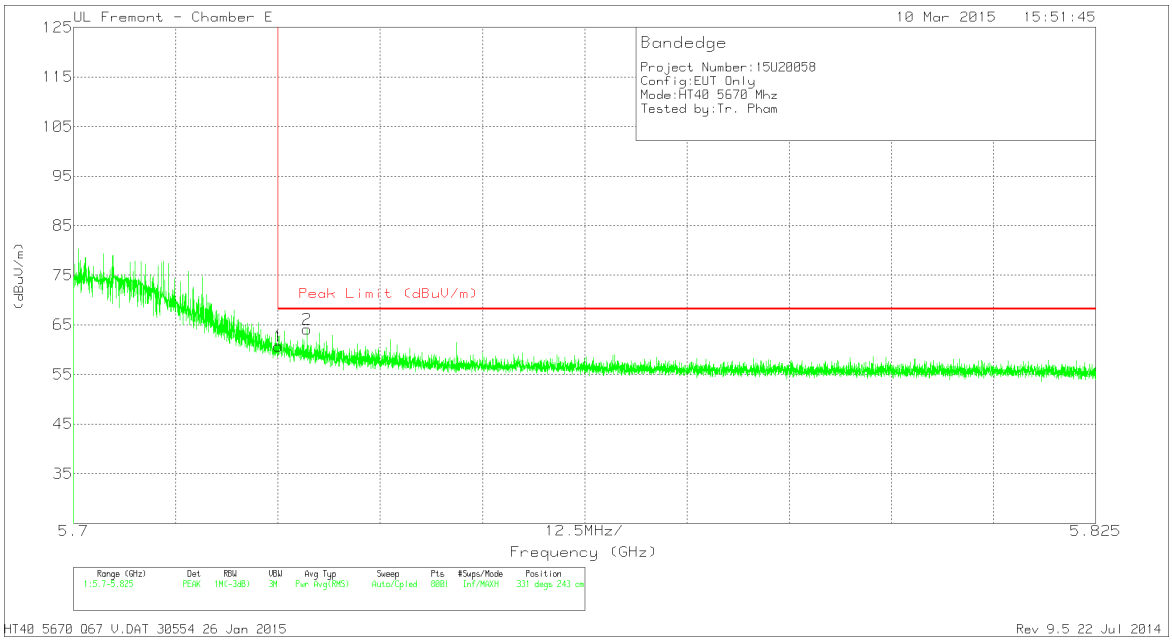
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.78	PK	34.7	-20.8	60.68	68.2	-7.52	331	243	V
2	5.729	50.11	PK	34.7	-20.7	64.11	68.2	-4.09	331	243	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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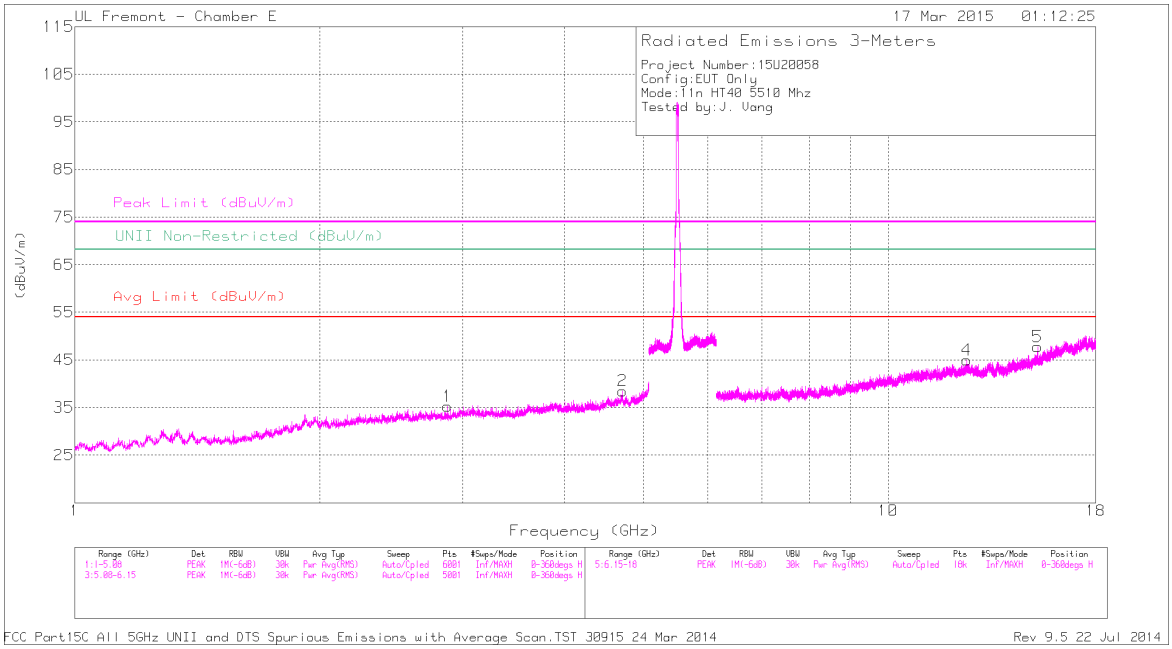
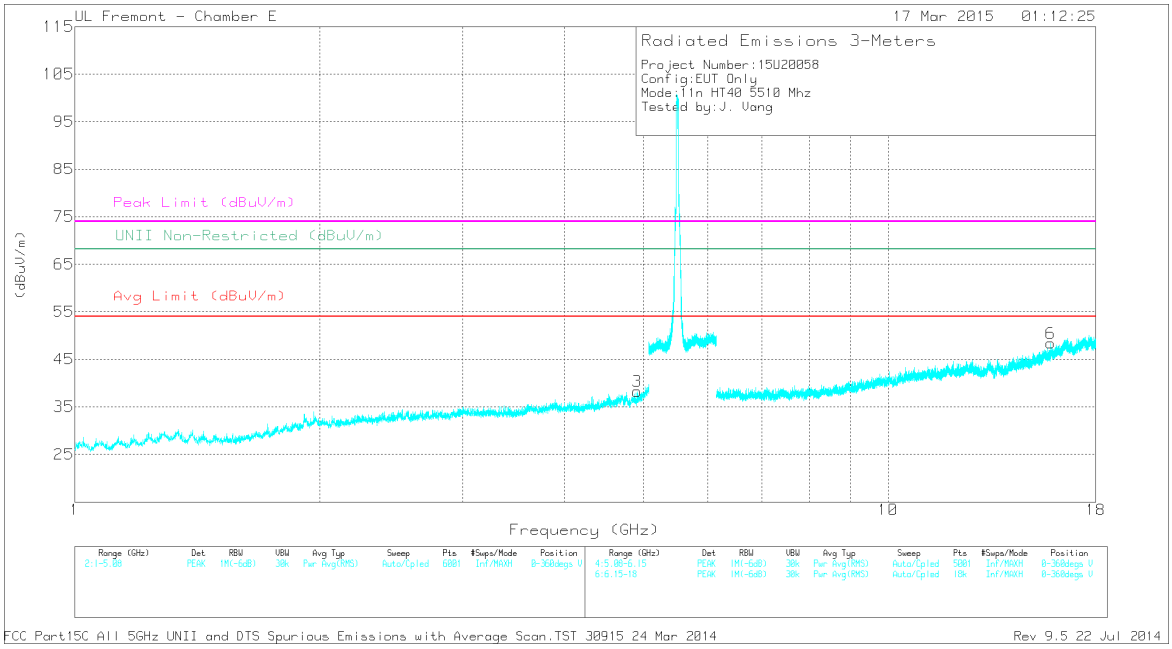
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.875	42.35	PK1	32.5	-32.9	0	41.95	-	-	74	-32.05	-	-	126	397	H
	* 2.873	30.83	AD1	32.5	-32.9	.09	30.52	54	-23.48	-	-	-	-	126	397	H
2	* 4.714	41.88	PK1	34.2	-30.3	0	45.78	-	-	74	-28.22	-	-	72	175	H
	* 4.712	30.69	AD1	34.2	-30.3	.09	34.68	54	-19.32	-	-	-	-	72	175	H
3	* 4.914	42.45	PK1	34.1	-29.7	0	46.85	-	-	74	-27.15	-	-	155	206	V
	* 4.915	30.34	AD1	34.1	-29.7	.09	34.83	54	-19.17	-	-	-	-	155	206	V
4	* 12.5	37	PK1	39	-23.7	0	52.3	-	-	74	-21.7	-	-	320	201	H
	* 12.5	25.17	AD1	39	-23.7	.09	40.56	54	-13.44	-	-	-	-	320	201	H
6	* 15.852	37.66	PK1	40.5	-23	0	55.16	-	-	74	-18.84	-	-	313	101	V
	* 15.852	25.7	AD1	40.5	-23	.09	43.29	54	-10.71	-	-	-	-	313	101	V
5	15.269	37.54	PK1	39.9	-23.3	0	54.14	-	-	-	-	68.2	-14.06	60	101	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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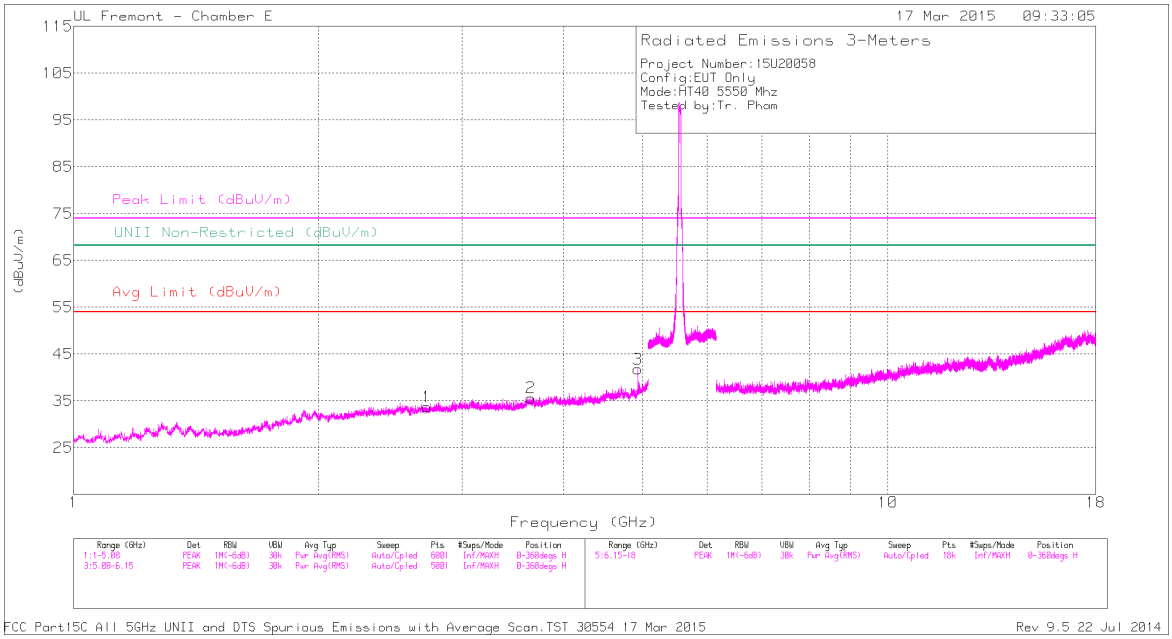
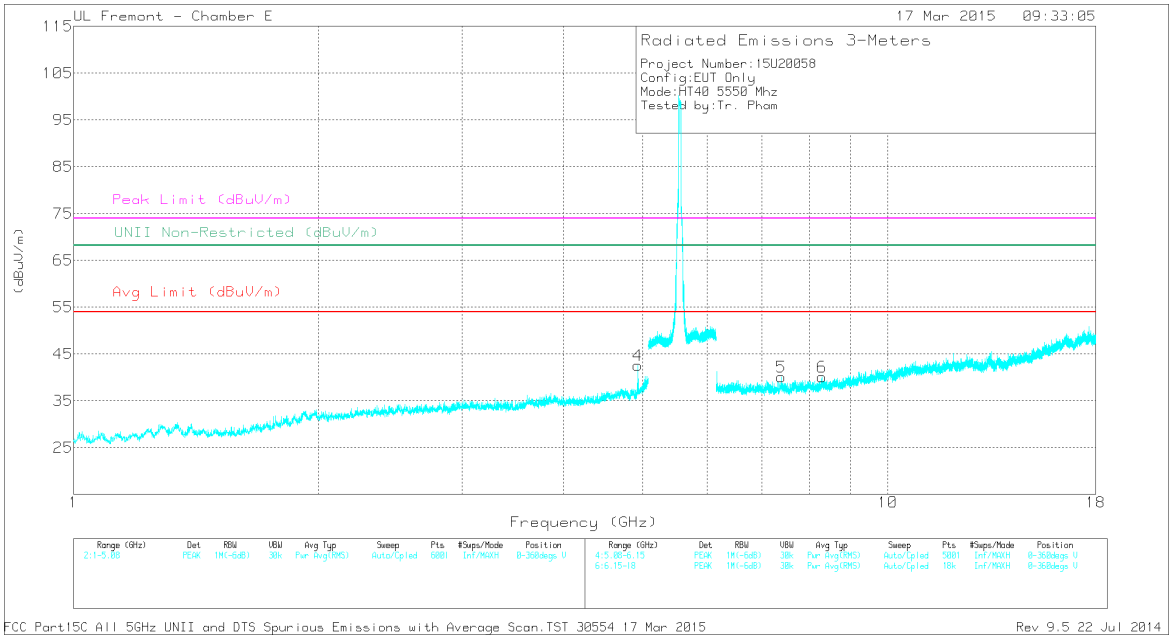
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.716	42.14	PK1	32.4	-32.3	0	42.24	-	-	74	-31.76	360	100	H
	* 2.716	30.77	AD1	32.4	-32.3	.09	30.96	54	-23.04	-	-	360	100	H
2	* 3.641	42.12	PK1	33.1	-30.8	0	44.42	-	-	74	-29.58	360	100	H
	* 3.642	30.27	AD1	33.1	-30.9	.09	32.56	54	-21.44	-	-	360	100	H
3	* 4.933	43.76	PK1	34.1	-29.7	0	48.16	-	-	74	-25.84	4	152	H
	* 4.933	33.47	AD1	34.1	-29.7	.09	37.96	54	-16.04	-	-	4	152	H
4	* 4.933	46.06	PK1	34.1	-29.7	0	50.46	-	-	74	-23.54	340	253	V
	* 4.933	37.43	AD1	34.1	-29.7	.09	41.92	54	-12.08	-	-	340	253	V
5	* 7.394	39.21	PK1	35.5	-27.2	0	47.51	-	-	74	-26.49	340	253	V
	* 7.393	27.4	AD1	35.5	-27.2	.09	35.79	54	-18.21	-	-	340	253	V
6	* 8.296	38.5	PK1	35.7	-26.9	0	47.3	-	-	74	-26.7	340	253	V
	* 8.295	27.37	AD1	35.7	-26.9	.09	36.26	54	-17.74	-	-	340	253	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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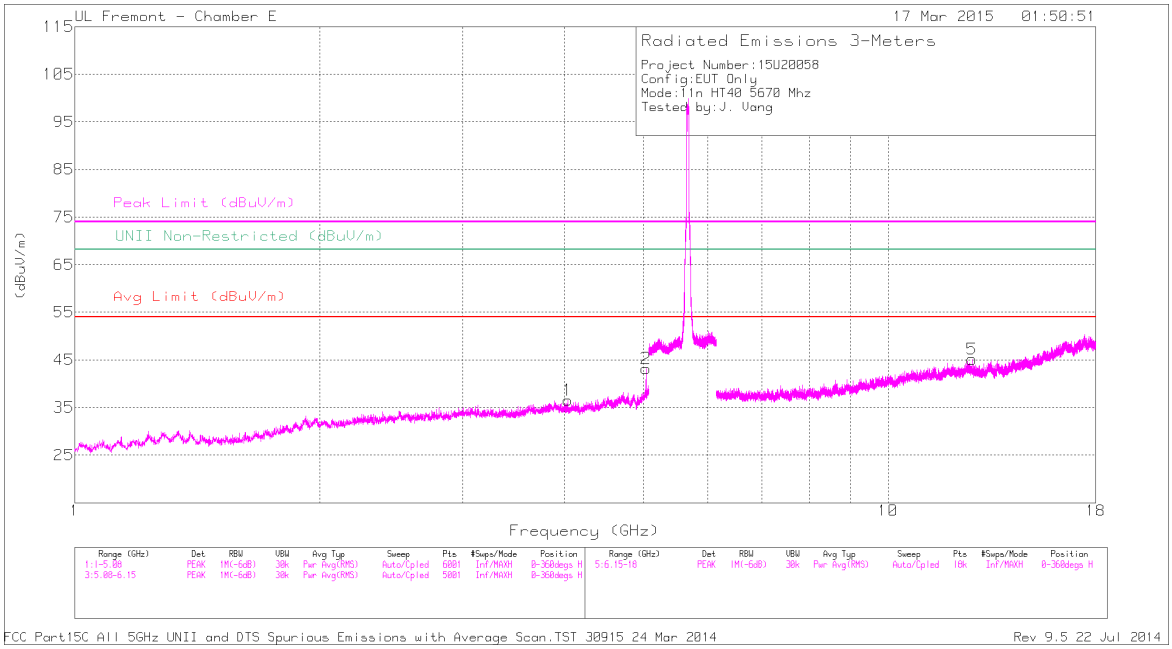
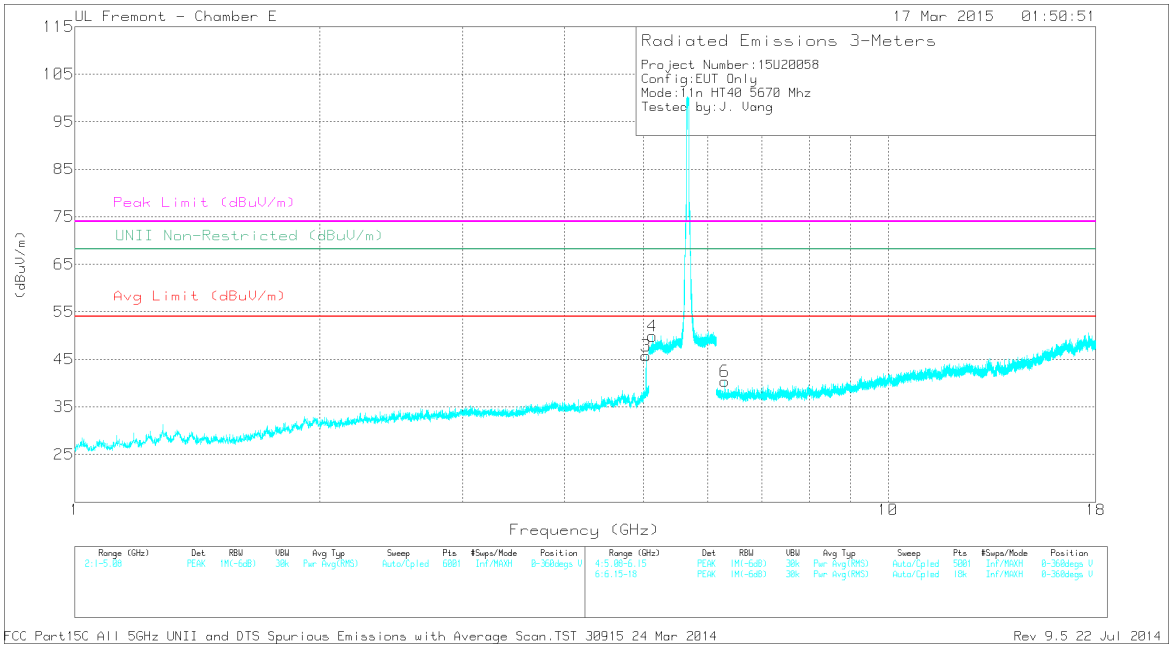
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 4.042	41.05	PK1	33.4	-31.4	0	43.05	-	-	74	-30.95	-	-	341	200	H
	* 4.039	29.3	AD1	33.4	-31.4	.09	31.39	54	-22.61	-	-	-	-	341	200	H
2	* 5.04	44.31	PK1	34.2	-28.9	0	49.61	-	-	74	-24.39	-	-	122	177	H
	* 5.04	35.88	AD1	34.2	-28.9	.09	41.27	54	-12.73	-	-	-	-	122	177	H
3	* 5.04	46.61	PK1	34.2	-28.9	0	51.91	-	-	74	-22.09	-	-	149	273	V
	* 5.04	39.07	AD1	34.2	-28.9	.09	44.46	54	-9.54	-	-	-	-	149	273	V
4	* 5.13	43.01	PK1	34.3	-21.6	0	55.71	-	-	74	-18.29	-	-	2	200	V
	* 5.127	31.55	AD1	34.3	-21.7	.09	44.24	54	-9.76	-	-	-	-	2	200	V
5	* 12.679	36.98	PK1	39.1	-24.3	0	51.78	-	-	74	-22.22	-	-	175	200	H
	* 12.681	25.78	AD1	39.1	-24.3	.09	40.67	54	-13.33	-	-	-	-	175	200	H
6	6.3	33.88	PK	35.4	-28.9	0	40.38	-	-	-	-	68.2	-27.82	311	200	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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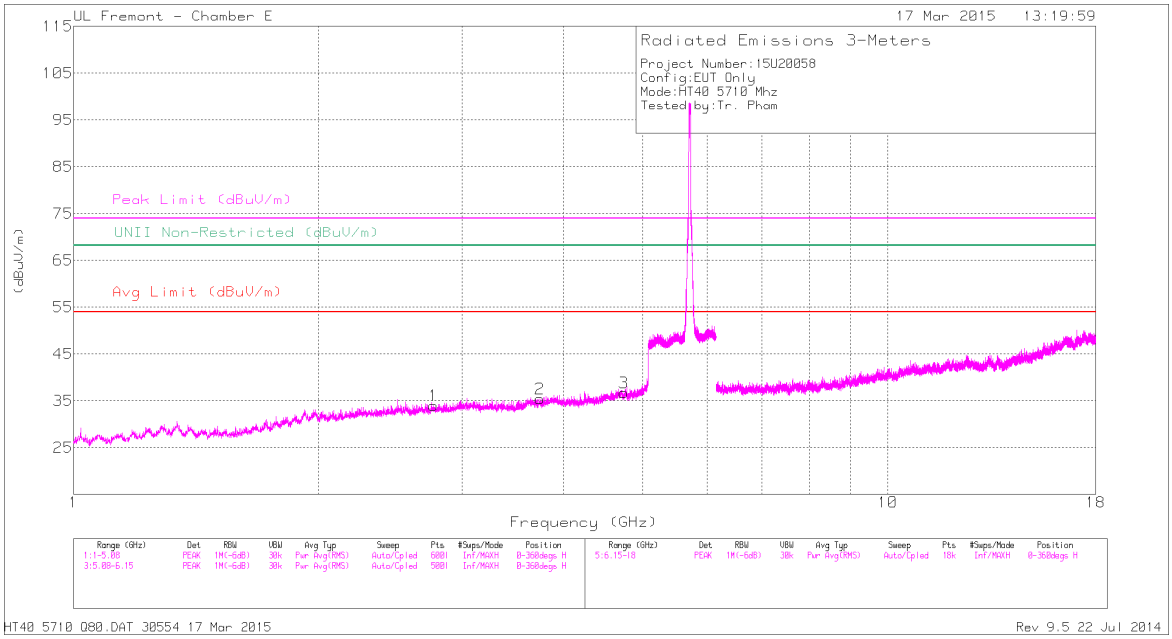
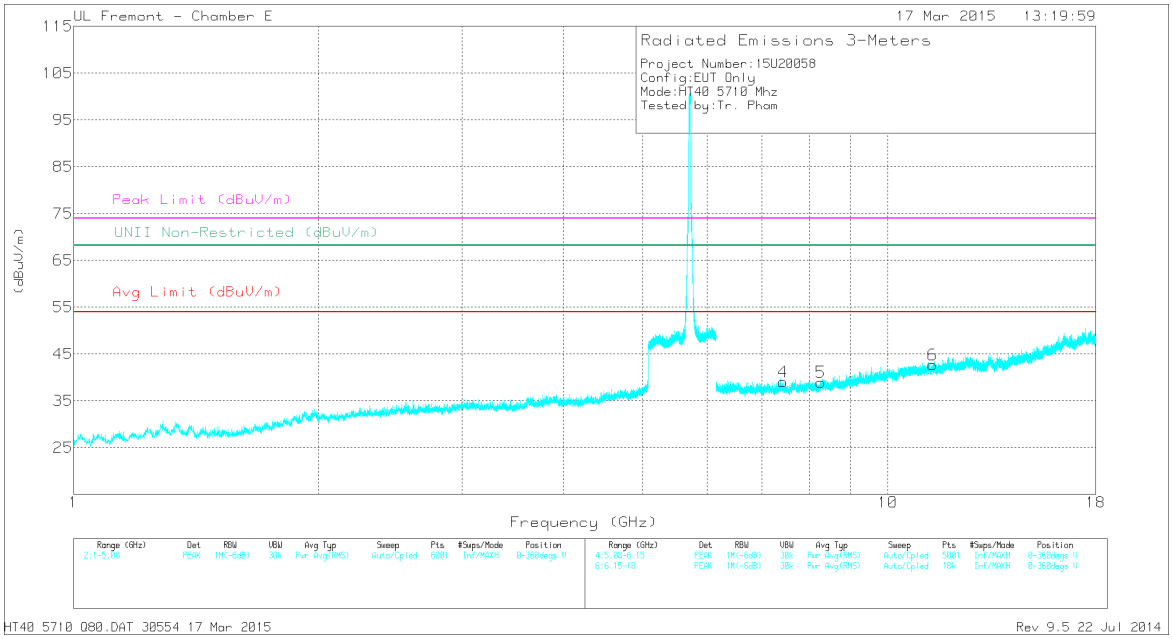
CHANNEL 142 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 142 HORIZONTAL PLOT



CHANNEL 142 VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.765	42.94	PK1	32.4	-32.3	0	43.04	-	-	74	-30.96	2	100	H
	* 2.765	30.61	AD1	32.4	-32.3	.09	30.8	54	-23.2	-	-	2	100	H
2	* 3.736	42.22	PK1	33.3	-31.9	0	43.62	-	-	74	-30.38	2	100	H
	* 3.737	30.58	AD1	33.3	-31.9	.09	32.07	54	-21.93	-	-	2	100	H
3	* 4.741	42.51	PK1	34.1	-30.6	0	46.01	-	-	74	-27.99	2	100	H
	* 4.741	31.06	AD1	34.1	-30.6	.09	34.65	54	-19.35	-	-	2	100	H
4	* 7.433	39.73	PK1	35.6	-28.3	0	47.03	-	-	74	-26.97	2	100	V
	* 7.433	28.39	AD1	35.6	-28.3	.09	35.78	54	-18.22	-	-	2	100	V
5	* 8.277	39.19	PK1	35.7	-27	0	47.89	-	-	74	-26.11	2	100	V
	* 8.279	27.39	AD1	35.7	-27	.09	36.18	54	-17.82	-	-	2	100	V
6	* 11.357	36.55	PK1	38	-23.5	0	51.05	-	-	74	-22.95	2	100	V
	* 11.357	25.42	AD1	38	-23.5	.09	40.01	54	-13.99	-	-	2	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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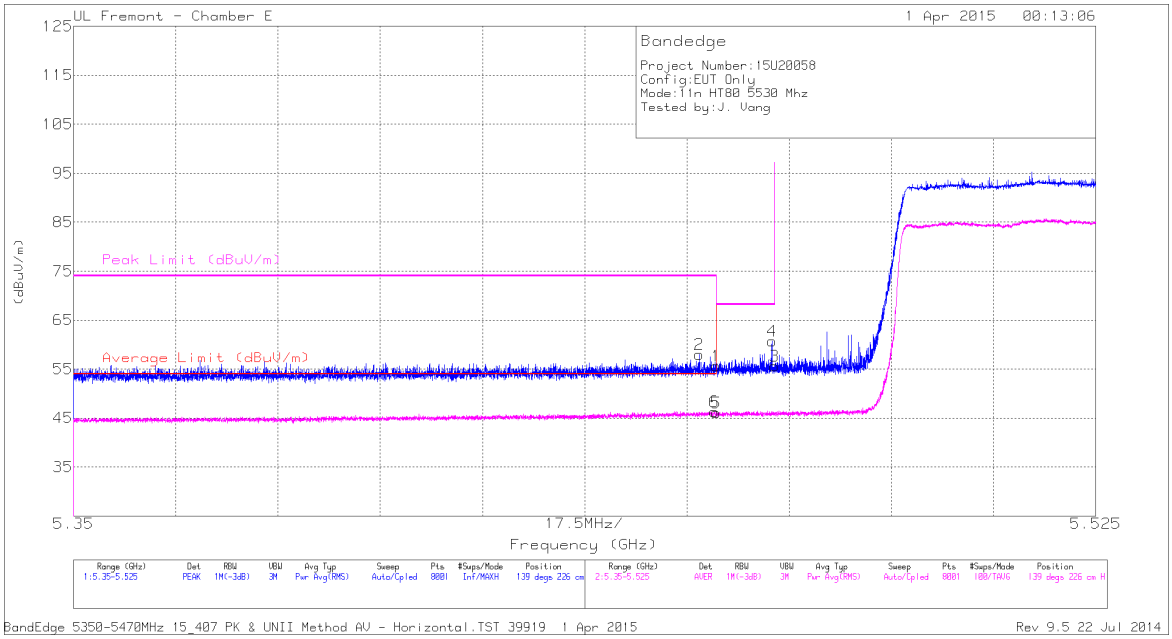
9.10. 802.11ac 80MHz 1TX SISO MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, CH 106)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.86	PK	34.6	-20.8	0	55.66	-	-	74	-18.34	139	226	H
2	* 5.457	44.23	PK	34.6	-20.8	0	58.03	-	-	74	-15.97	139	226	H
5	* 5.46	32.07	RMS	34.6	-20.8	.2	46.07	54	-7.93	-	-	139	226	H
6	* 5.46	32.34	RMS	34.6	-20.8	.2	46.34	54	-7.66	-	-	139	226	H
3	5.47	41.83	PK	34.6	-20.8	0	55.63	-	-	68.2	-12.57	139	226	H
4	5.47	46.92	PK	34.6	-20.8	0	60.72	-	-	68.2	-7.48	139	226	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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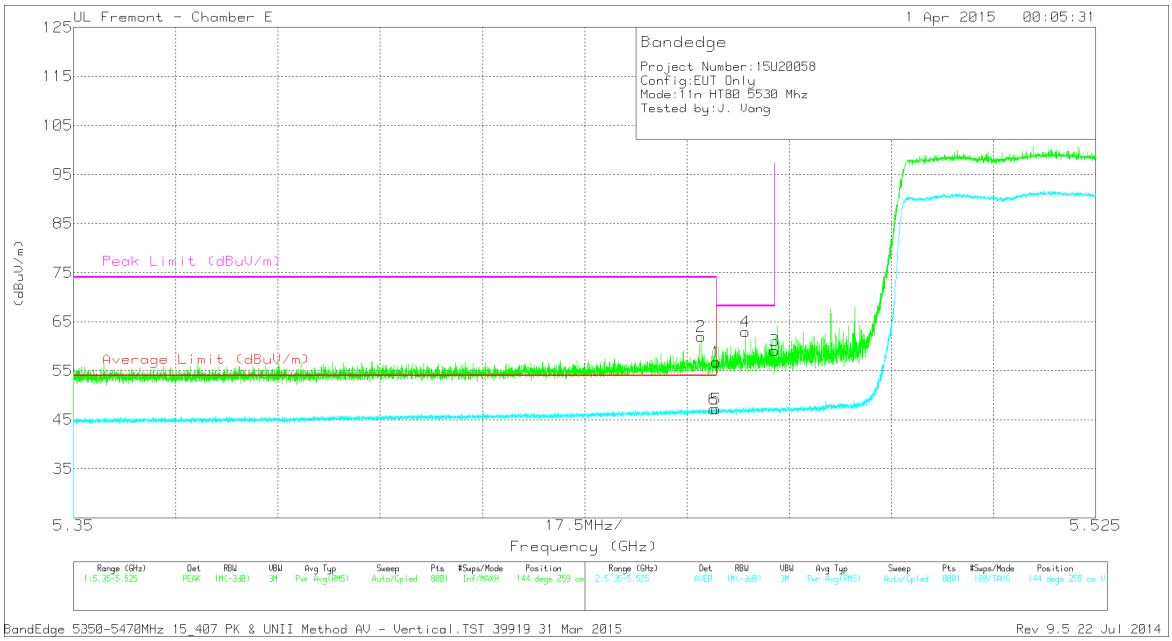
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	42.94	PK	34.6	-20.8	0	56.74	-	-	74	-17.26	144	259	V
2	* 5.457	48.21	PK	34.6	-20.8	0	62.01	-	-	74	-11.99	144	259	V
5	* 5.46	33.23	RMS	34.6	-20.8	.2	47.23	54	-6.77	-	-	144	259	V
6	* 5.46	33.2	RMS	34.6	-20.8	.2	47.2	54	-6.8	-	-	144	259	V
4	5.465	49.16	PK	34.6	-20.8	0	62.96	-	-	68.2	-5.24	144	259	V
3	5.47	45.34	PK	34.6	-20.8	0	59.14	-	-	68.2	-9.06	144	259	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

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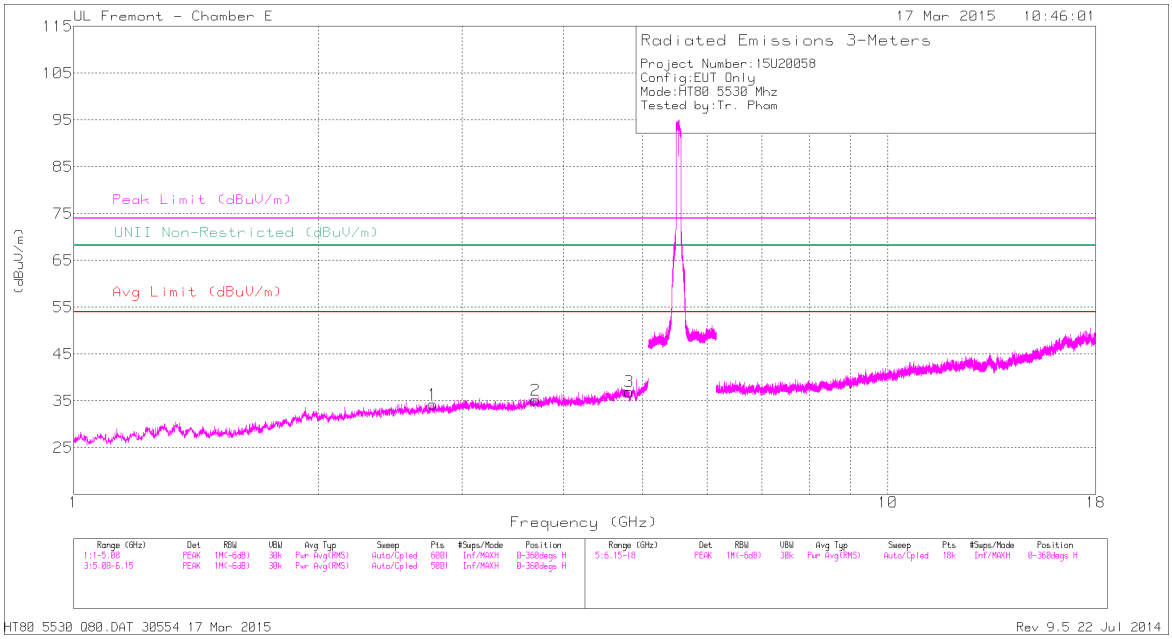
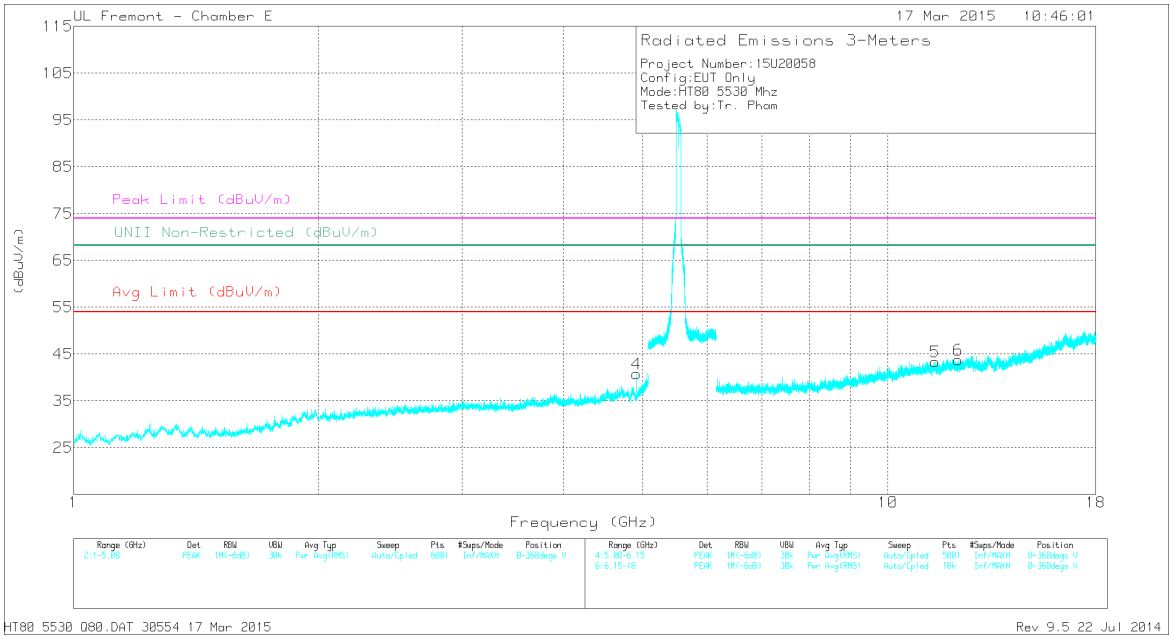
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.765	42.09	PK1	32.4	-32.3	0	42.19	-	-	74	-31.81	360	101	H
	* 2.763	30.85	AD1	32.4	-32.3	.2	31.15	54	-22.85	-	-	360	101	H
2	* 3.696	42.22	PK1	33.2	-31.5	0	43.92	-	-	74	-30.08	360	101	H
	* 3.696	30.47	AD1	33.2	-31.5	.2	32.37	54	-21.63	-	-	360	101	H
3	* 4.814	41.27	PK1	34.1	-30.3	0	45.07	-	-	74	-28.93	360	101	H
	* 4.815	29.8	AD1	34.1	-30.3	.2	33.8	54	-20.2	-	-	360	101	H
4	* 4.916	44.8	PK1	34.1	-29.7	0	49.2	-	-	74	-24.8	151	256	V
	* 4.916	37.16	AD1	34.1	-29.7	.2	41.76	54	-12.24	-	-	151	256	V
5	* 11.419	37.15	PK1	38	-24	0	51.15	-	-	74	-22.85	151	256	V
	* 11.42	25.83	AD1	38	-24	.2	40.03	54	-13.97	-	-	151	256	V
6	* 12.197	37.15	PK1	38.8	-24.2	0	51.75	-	-	74	-22.25	151	256	V
	* 12.197	25.78	AD1	38.8	-24.2	.2	40.58	54	-13.42	-	-	151	256	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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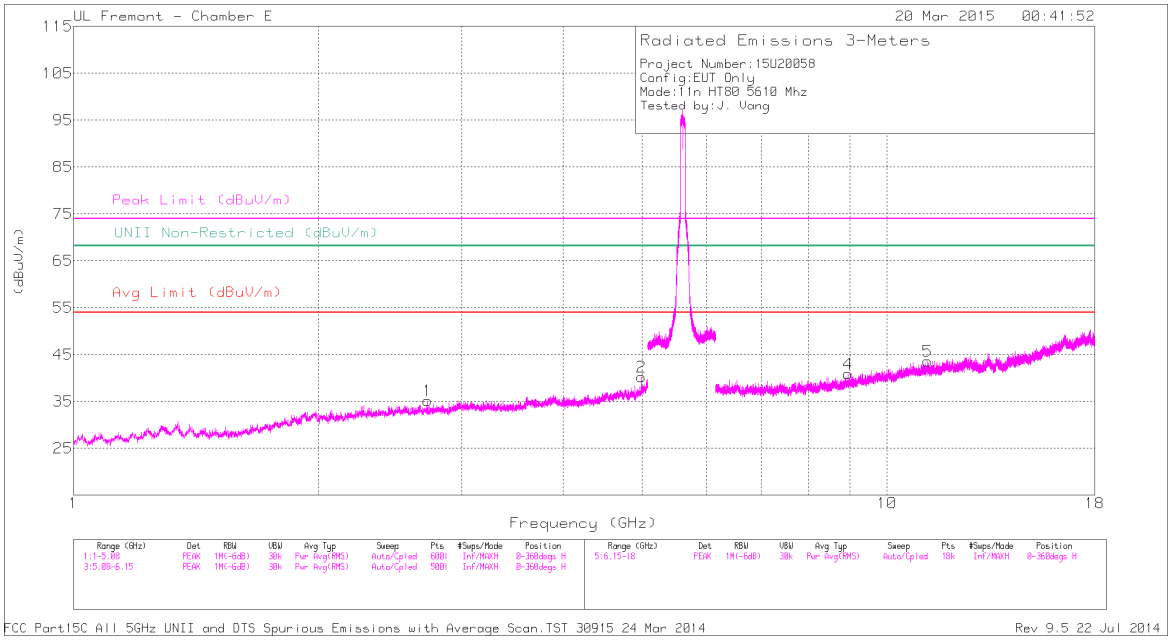
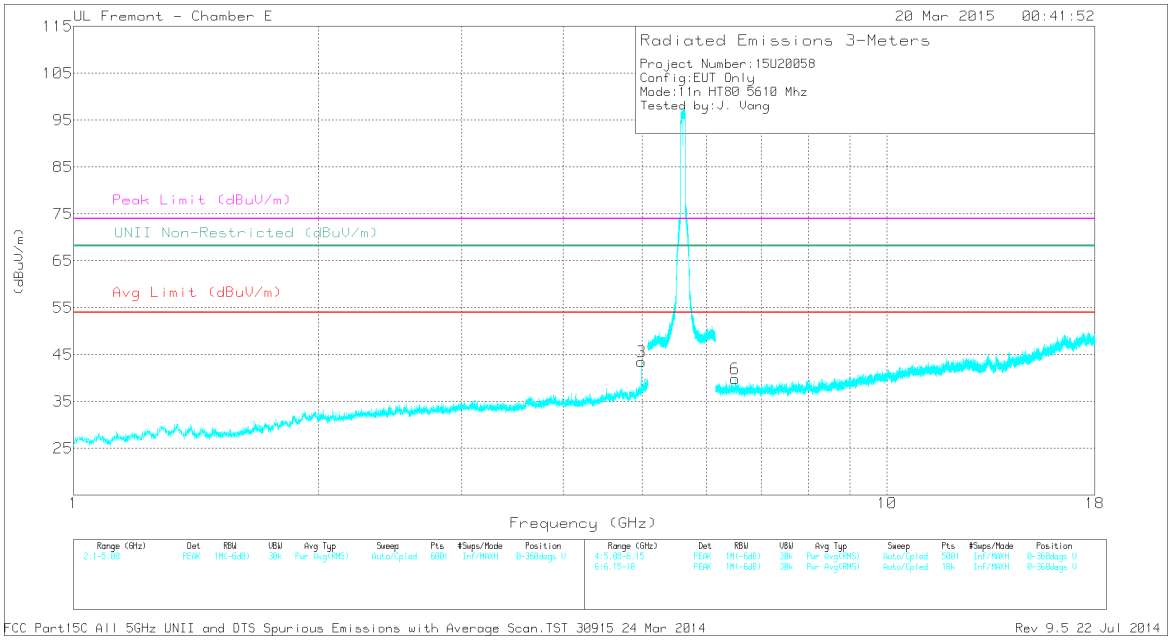
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.728	41.8	PK1	32.4	-32.4	0	41.8	-	-	74	-32.2	-	-	226	200	H
	* 2.726	30.06	AD1	32.4	-32.4	.2	30.26	54	-23.74	-	-	-	-	226	200	H
2	* 4.987	42.4	PK1	34.2	-29.2	0	47.4	-	-	74	-26.6	-	-	136	111	H
	* 4.987	33.11	AD1	34.2	-29.2	.2	38.31	54	-15.69	-	-	-	-	136	111	H
3	* 4.987	44.18	PK1	34.2	-29.2	0	49.18	-	-	74	-24.82	-	-	147	276	V
	* 4.987	36.36	AD1	34.2	-29.2	.2	41.56	54	-12.44	-	-	-	-	147	276	V
5	* 11.207	36.45	PK1	37.8	-23.7	0	50.55	-	-	74	-23.45	-	-	324	100	H
	* 11.209	24.95	AD1	37.9	-23.8	.2	39.25	54	-14.75	-	-	-	-	324	100	H
6	6.507	38.76	PK1	35.6	-27.9	0	46.46	-	-	-	-	68.2	-21.74	337	200	V
4	8.956	37.3	PK1	36.2	-26.1	0	47.4	-	-	-	-	68.2	-20.8	283	200	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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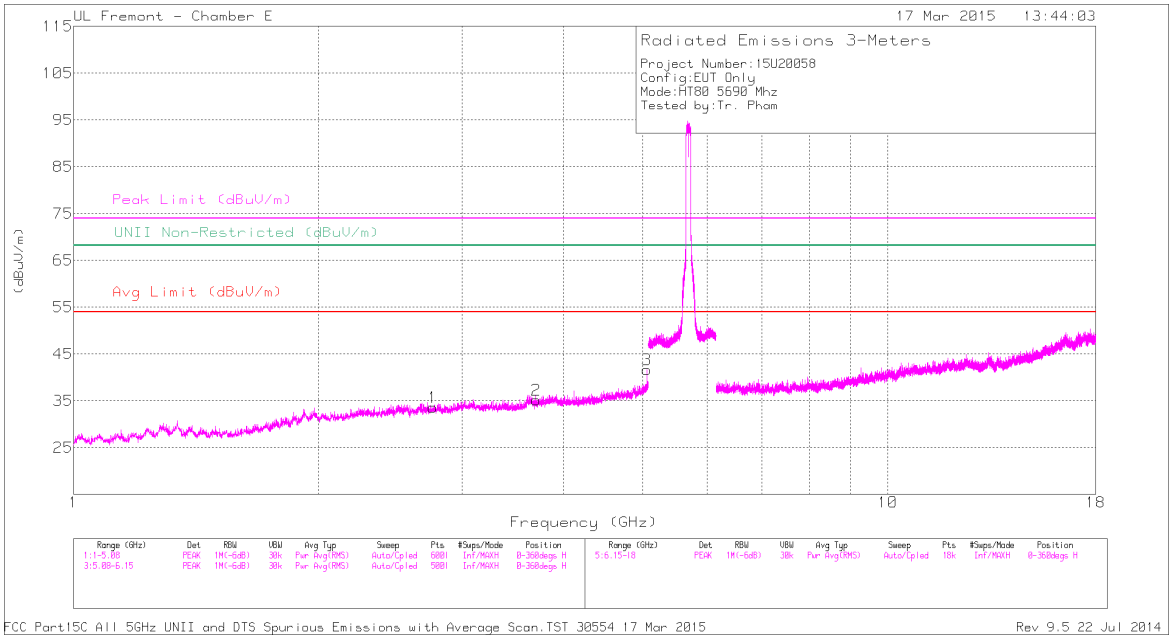
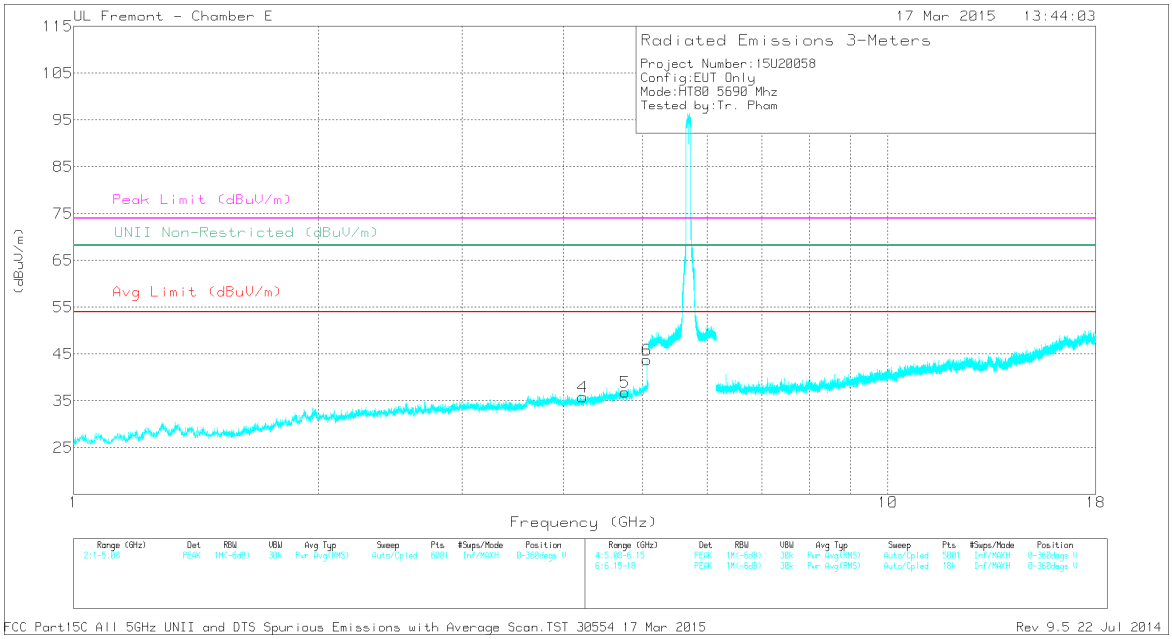
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.765	41.81	PK1	32.4	-32.3	0	41.91	-	-	74	-32.09	0	100	H
	* 2.764	30.72	AD1	32.4	-32.3	.2	31.02	54	-22.98	-	-	0	100	H
2	* 3.697	42.16	PK1	33.2	-31.5	0	43.86	-	-	74	-30.14	0	100	H
	* 3.697	30.39	AD1	33.2	-31.5	.2	32.29	54	-21.71	-	-	0	100	H
3	* 5.058	43.61	PK1	34.2	-28.3	0	49.51	-	-	74	-24.49	130	200	H
	* 5.058	34.54	AD1	34.2	-28.3	.2	40.64	54	-13.36	-	-	130	200	H
4	* 4.219	41.71	PK1	33.5	-31.4	0	43.81	-	-	74	-30.19	130	200	V
	* 4.219	30.3	AD1	33.5	-31.4	.2	32.6	54	-21.4	-	-	130	200	V
5	* 4.756	42.32	PK1	34.1	-30.6	0	45.82	-	-	74	-28.18	130	200	V
	* 4.757	31.01	AD1	34.1	-30.6	.2	34.71	54	-19.29	-	-	130	200	V
6	* 5.058	45.75	PK1	34.2	-28.3	0	51.65	-	-	74	-22.35	147	242	V
	* 5.058	37.19	AD1	34.2	-28.3	.2	43.29	54	-10.71	-	-	147	242	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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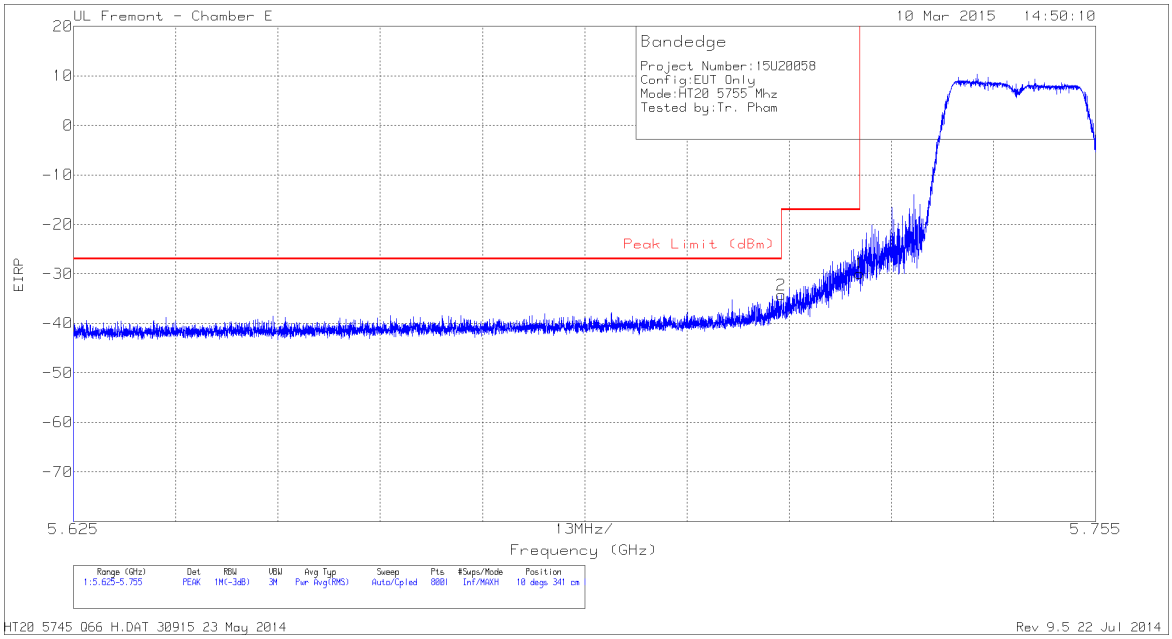
9.11. 802.11n HT20 SISO MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-59.79	PK	34.7	-21	11.8	-34.29	-27	-7.29	10	341	H
1	5.725	-55.68	PK	34.7	-20.8	11.8	-29.98	-17	-12.98	10	341	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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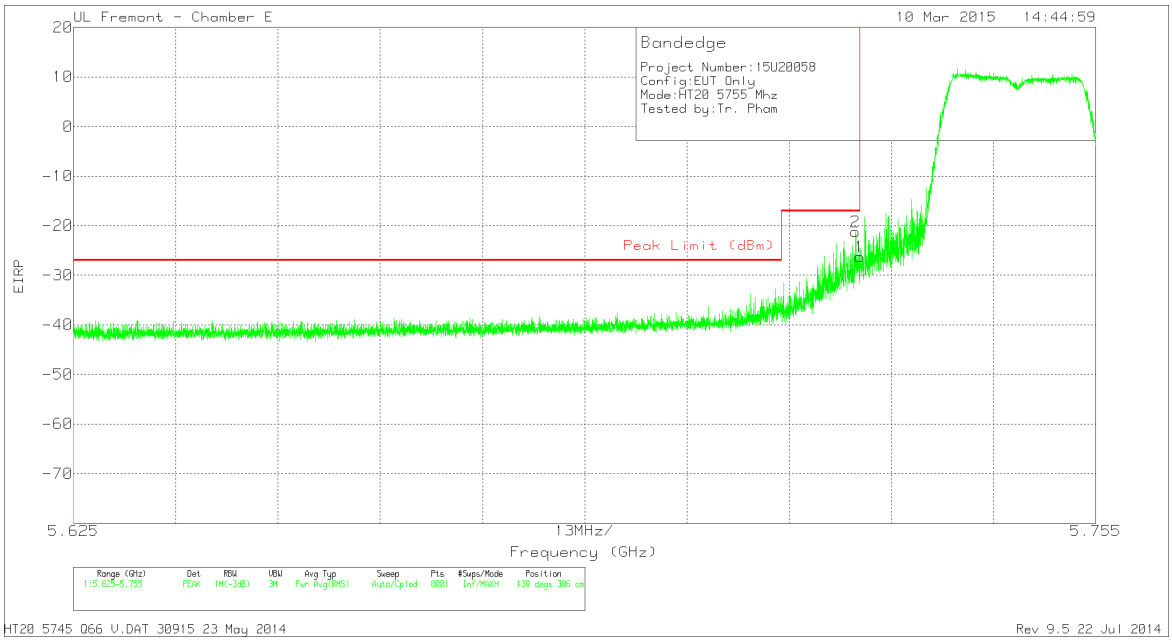
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.724	-46.98	PK	34.7	-20.8	11.8	-21.28	-17	-4.28	139	306	V
1	5.725	-51.92	PK	34.7	-20.8	11.8	-26.22	-17	-9.22	139	306	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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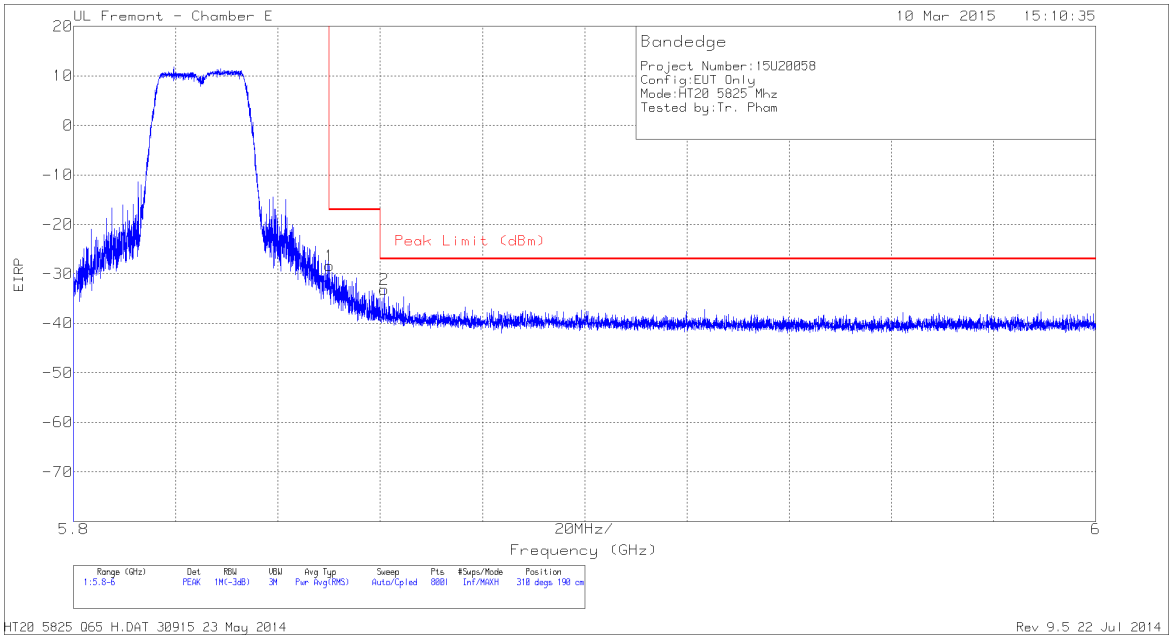
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-54.81	PK	34.9	-20.3	11.8	-28.41	-17	-11.41	310	190	H
2	5.861	-59.58	PK	34.9	-20.3	11.8	-33.18	-27	-6.18	310	190	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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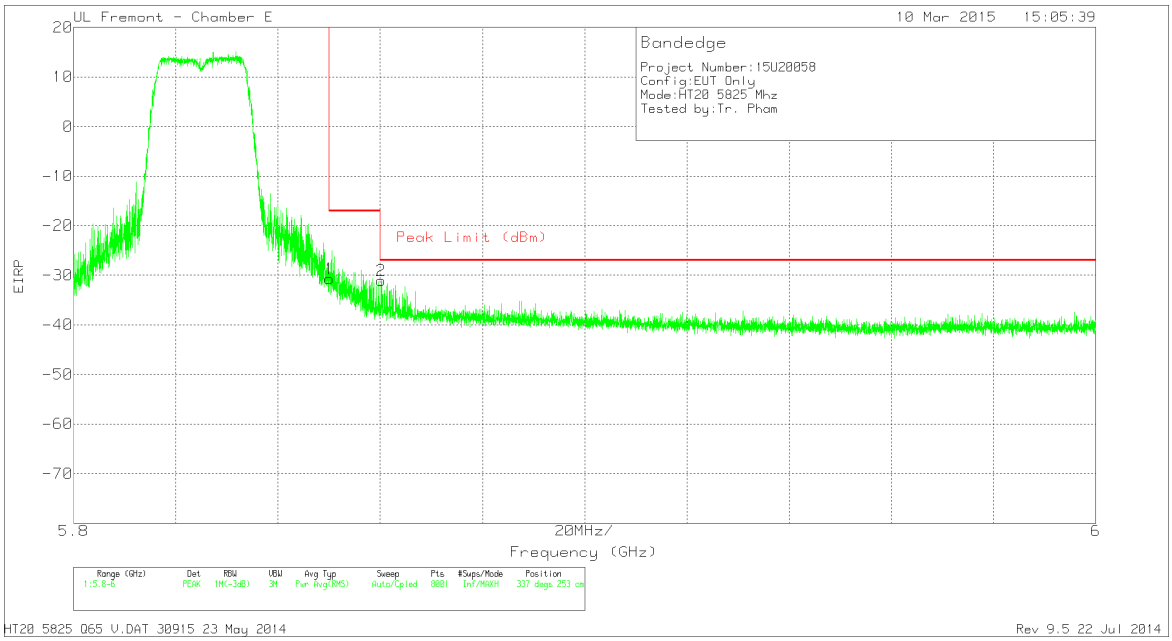
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.09	PK	34.9	-20.3	11.8	-30.69	-17	-13.69	337	253	V
2	5.86	-57.5	PK	34.9	-20.3	11.8	-31.1	-27	-4.1	337	253	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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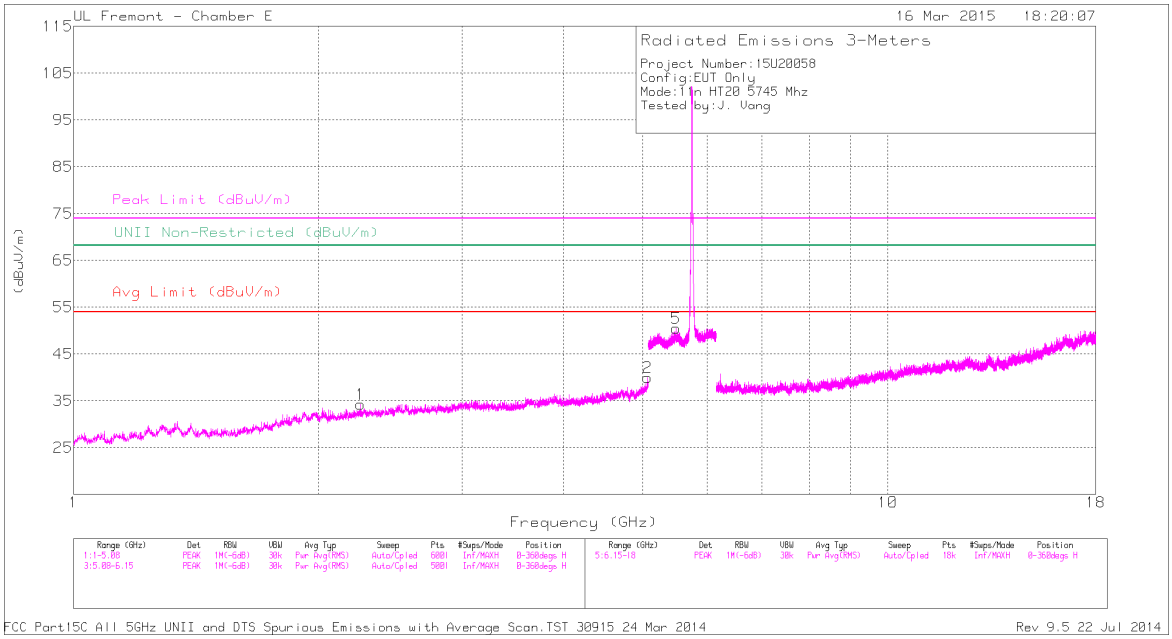
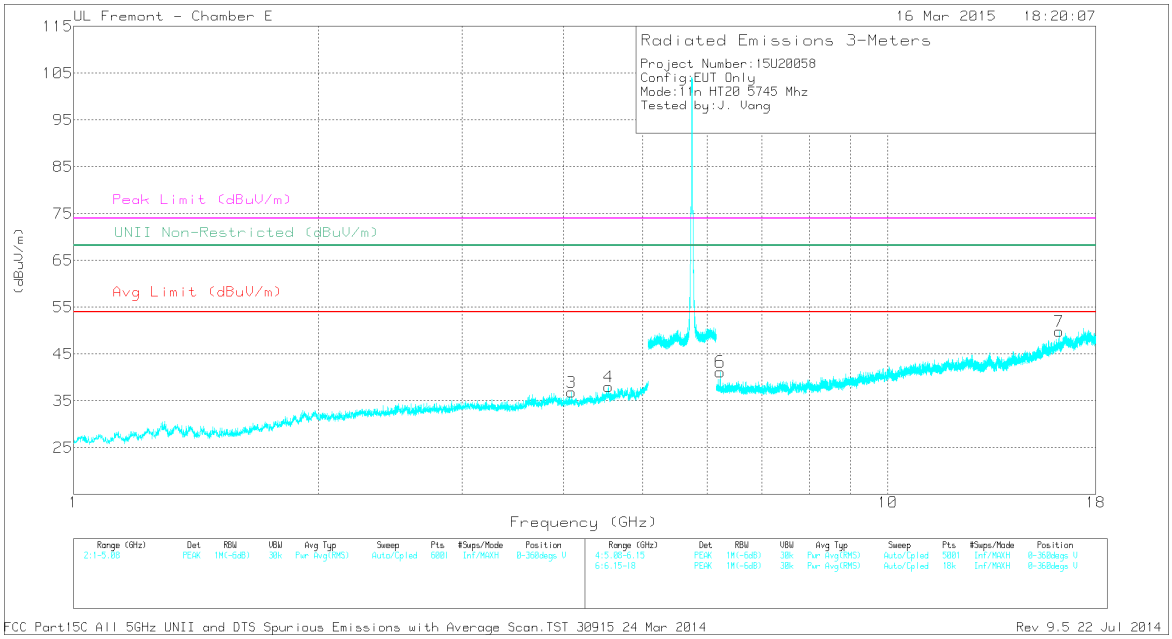
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.249	42.12	PK1	31.6	-32.4	41.32	-	-	74	-32.68	-	-	40	101	H
	* 2.249	30.38	AD1	31.6	-32.4	29.58	54	-24.42	-	-	-	-	40	101	H
2	* 5.07	40.78	PK1	34.2	-28	46.98	-	-	74	-27.02	-	-	208	264	H
	* 5.071	29.49	AD1	34.2	-27.9	35.79	54	-18.21	-	-	-	-	208	264	H
3	* 4.086	41.4	PK1	33.4	-31.2	43.6	-	-	74	-30.4	-	-	152	219	V
	* 4.085	29.9	AD1	33.4	-31.2	32.1	54	-21.9	-	-	-	-	152	219	V
4	* 4.538	41.37	PK1	34	-30.6	44.77	-	-	74	-29.23	-	-	266	264	V
	* 4.541	30.01	AD1	34	-30.6	33.41	54	-20.59	-	-	-	-	266	264	V
5	5.495	43.27	PK1	34.6	-20.7	57.17	-	-	-	-	68.2	-11.03	117	201	H
6	6.224	44.57	PK1	35.4	-29.5	50.47	-	-	-	-	68.2	-17.73	152	296	V
7	16.22	35.52	PK1	40.9	-21.3	55.12	-	-	-	-	68.2	-13.08	175	200	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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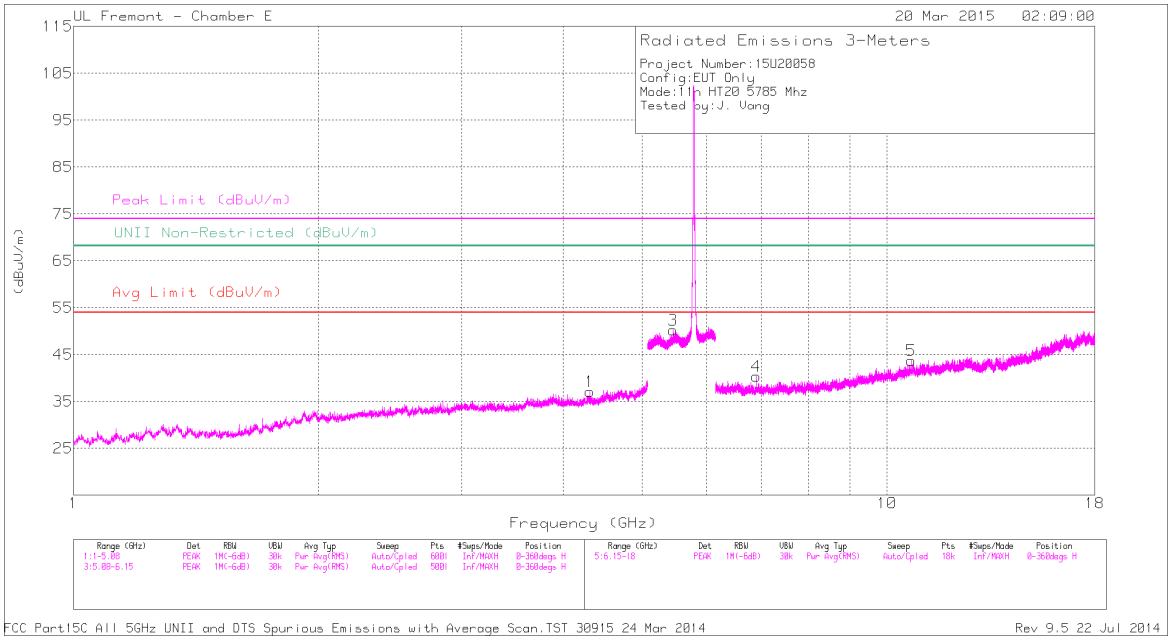
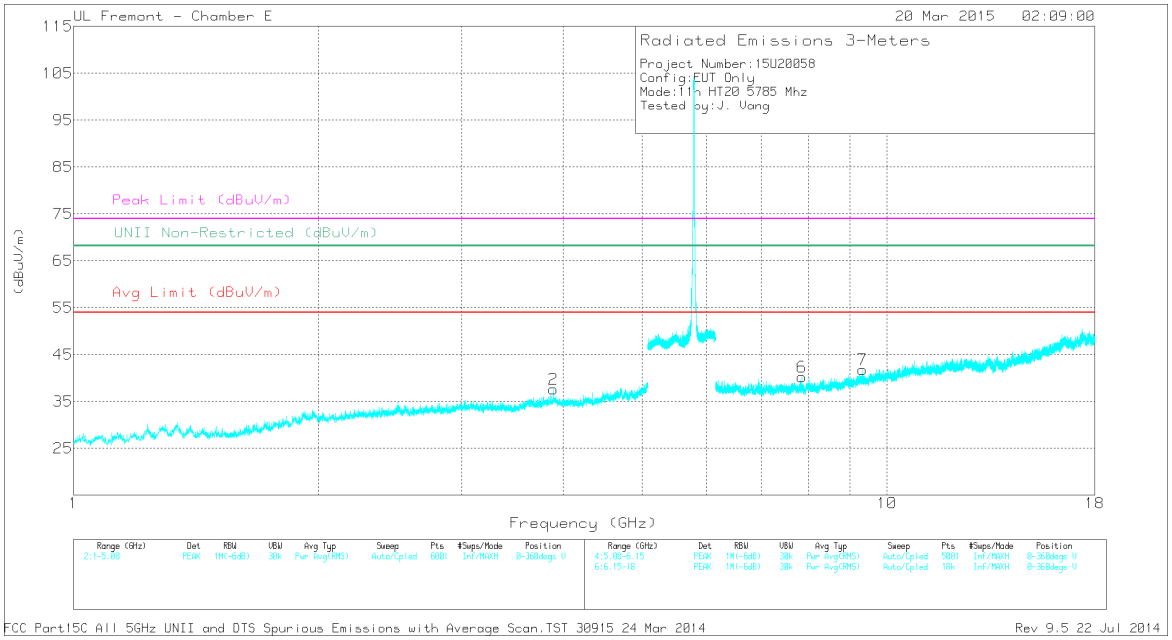
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.317	40.56	PK1	33.5	-30.5	43.56	-	-	74	-30.44	-	-	179	391	H
	* 4.316	29.29	AD1	33.5	-30.5	32.29	54	-21.71	-	-	-	-	179	391	H
2	* 3.893	40.71	PK1	33.5	-30.4	43.81	-	-	74	-30.19	-	-	182	231	V
	* 3.89	29.42	AD1	33.5	-30.4	32.52	54	-21.48	-	-	-	-	182	231	V
3	* 5.459	43.74	PK1	34.6	-20.8	57.54	-	-	74	-16.46	-	-	241	340	H
	* 5.46	31.81	AD1	34.6	-20.8	45.61	54	-8.39	-	-	-	-	241	340	H
5	* 10.705	36.09	PK1	37.9	-23.8	50.19	-	-	74	-23.81	-	-	296	201	H
	* 10.704	24.88	AD1	37.9	-23.8	38.98	54	-15.02	-	-	-	-	296	201	H
7	* 9.327	37.02	PK1	36.6	-25.3	48.32	-	-	74	-25.68	-	-	193	205	V
	* 9.324	25.62	AD1	36.6	-25.3	36.92	54	-17.08	-	-	-	-	193	205	V
4	6.907	39.44	PK1	35.6	-28.8	46.24	-	-	-	-	68.2	-21.96	311	194	H
6	7.863	38.48	PK1	35.8	-27.9	46.38	-	-	-	-	68.2	-21.82	14	182	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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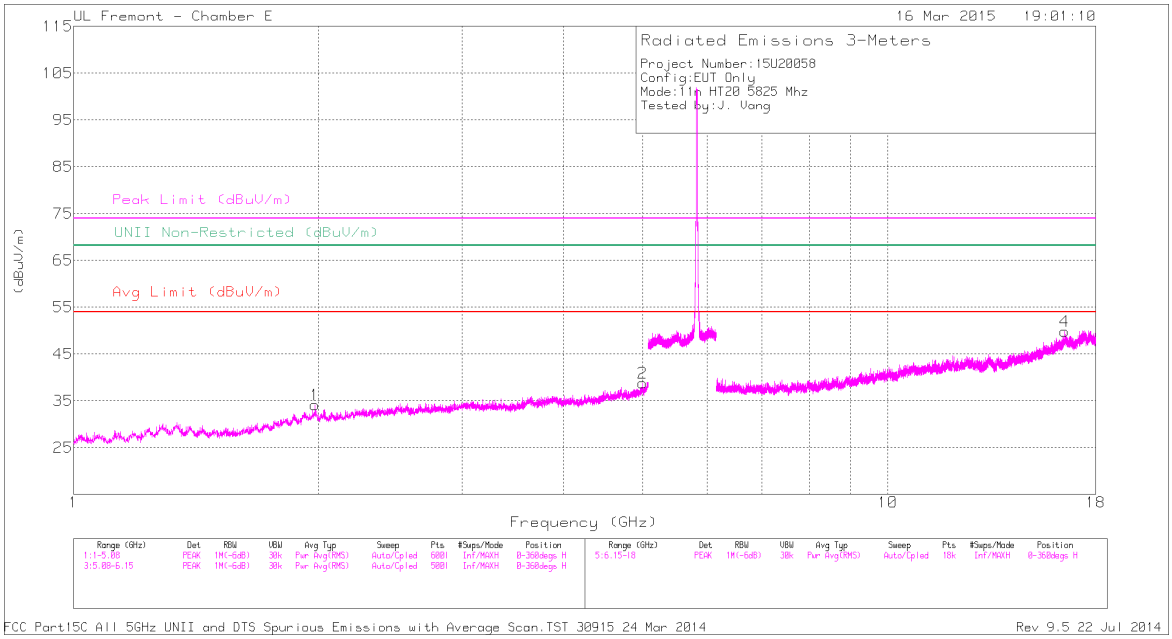
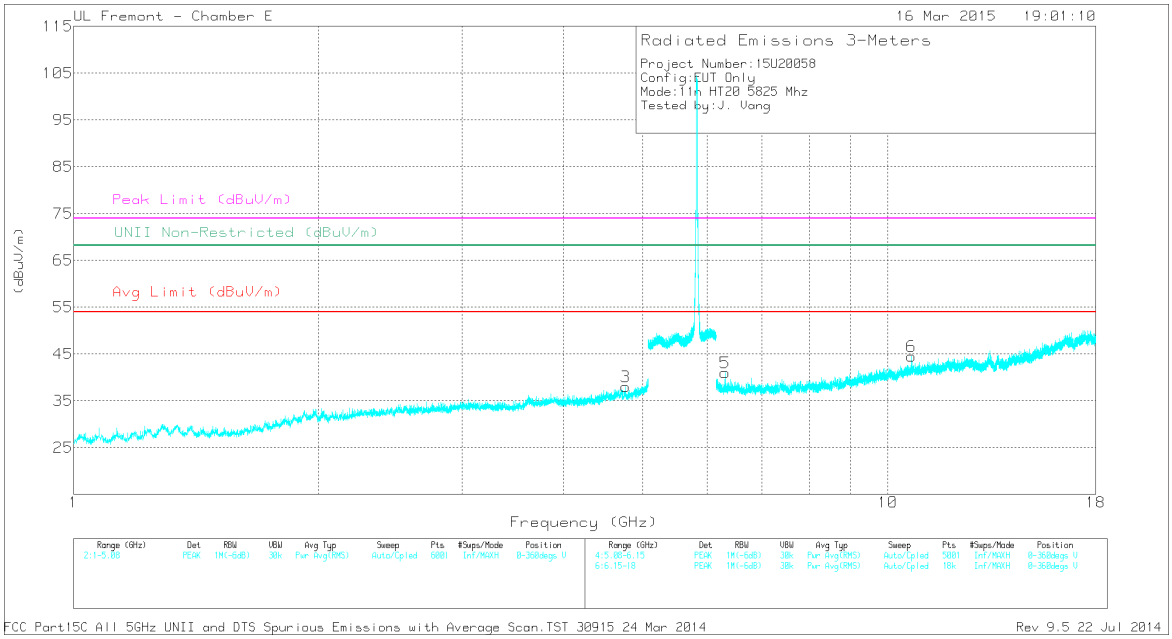
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.001	40.08	PK1	34.2	-29.1	45.18	-	-	74	-28.82	-	-	65	352	H
	* 4.997	29.15	AD1	34.2	-29.1	34.25	54	-19.75	-	-	-	-	65	352	H
3	* 4.762	42.15	PK1	34.1	-30.6	45.65	-	-	74	-28.35	-	-	292	321	V
	* 4.762	31.17	AD1	34.1	-30.6	34.67	54	-19.33	-	-	-	-	292	321	V
6	* 10.697	36.17	PK1	37.9	-23.7	50.37	-	-	74	-23.63	-	-	134	396	V
	* 10.697	24.99	AD1	37.9	-23.7	39.19	54	-14.81	-	-	-	-	134	396	V
1	1.978	42.57	PK1	31.2	-32.6	41.17	-	-	-	-	68.2	-27.03	257	200	H
5	6.31	42.82	PK1	35.4	-28.8	49.42	-	-	-	-	68.2	-18.78	144	289	V
4	16.496	35.75	PK1	41.2	-20.6	56.35	-	-	-	-	68.2	-11.85	18	200	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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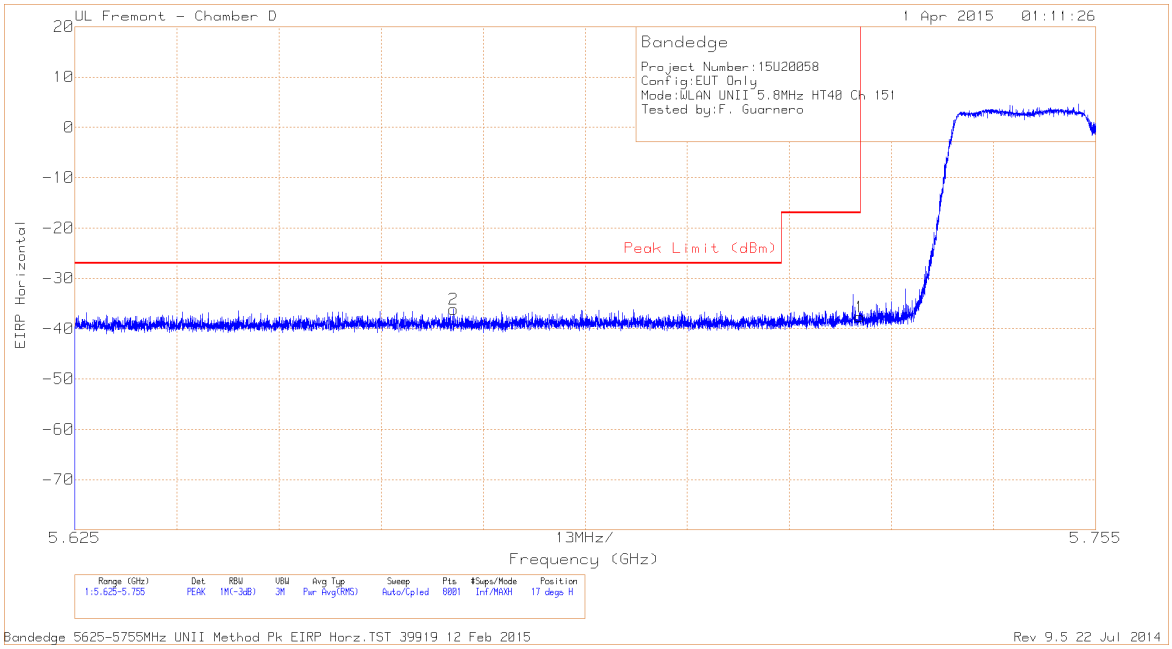
9.12. 802.11n HT40 SISO MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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
2	5.673	-64.95	PK	34.5	-17.5	11.8	0	-36.15	-27	-9.15	17	180	H
1	5.725	-66.47	PK	34.6	-17.6	11.8	0	-37.67	-17	-20.67	17	180	H

PK - Peak detector

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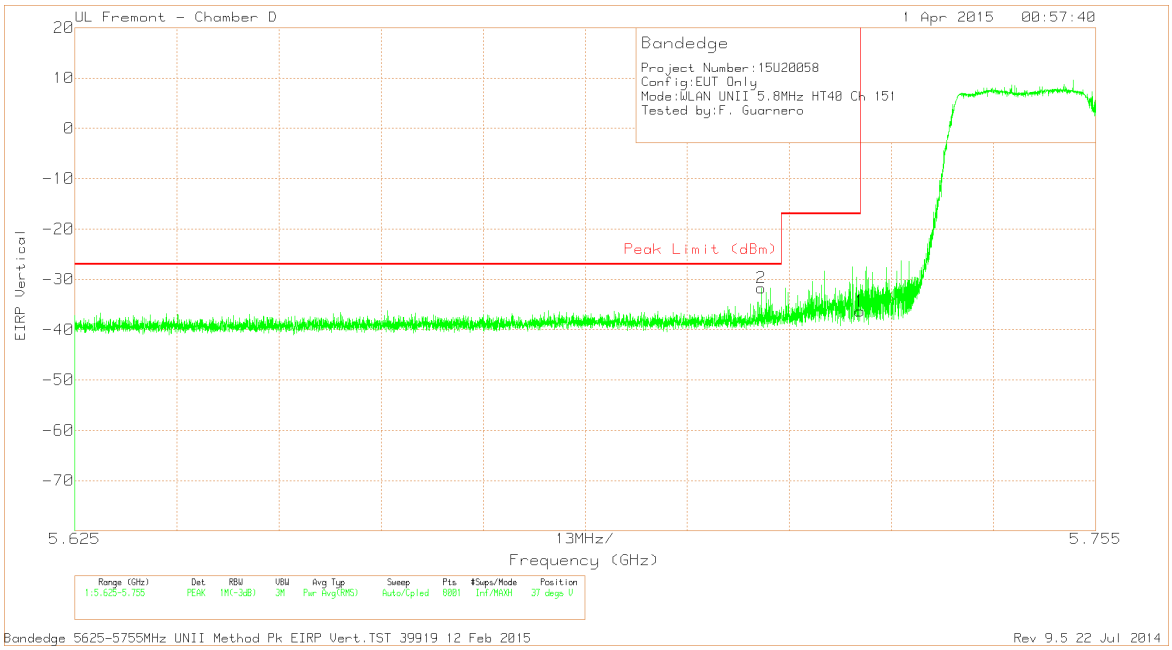
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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
2	5.712	-60.59	PK	34.6	-17.5	11.8	0	-31.69	-27	-4.69	37	263	V
1	5.725	-65.11	PK	34.6	-17.6	11.8	0	-36.31	-17	-19.31	37	263	V

PK - Peak detector

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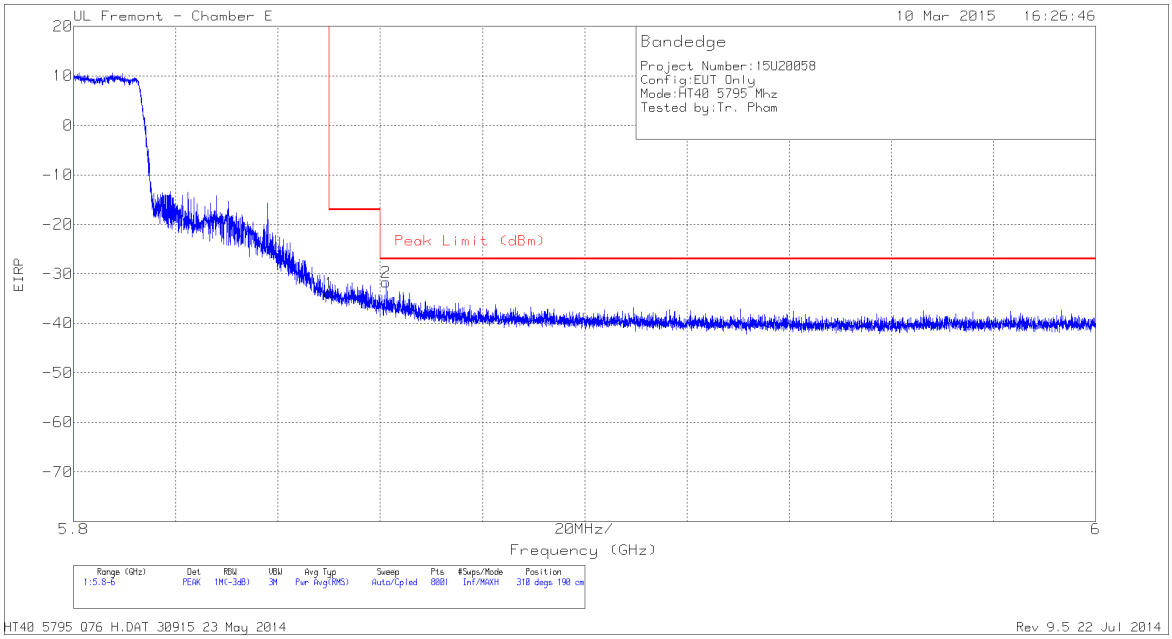
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.26	PK	34.9	-20.3	11.8	-33.86	-17	-16.86	310	190	H
2	5.861	-57.98	PK	34.9	-20.4	11.8	-31.68	-27	-4.68	310	190	H

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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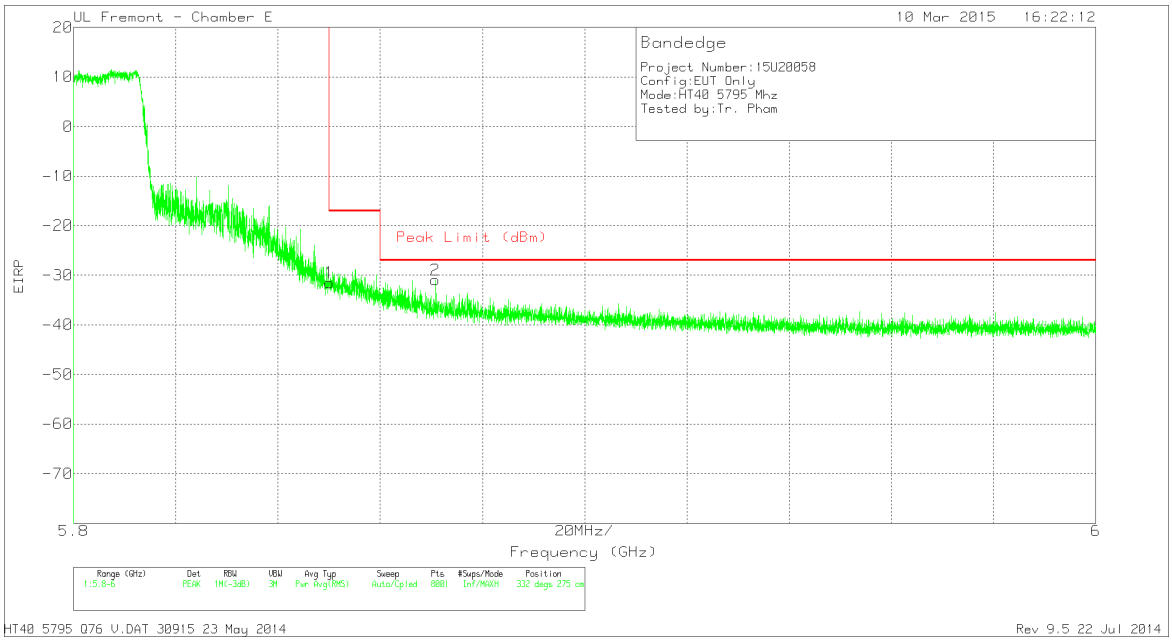
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.89	PK	34.9	-20.3	11.8	-31.49	-17	-14.49	332	275	V
2	5.871	-57.14	PK	34.9	-20.5	11.8	-30.94	-27	-3.94	332	275	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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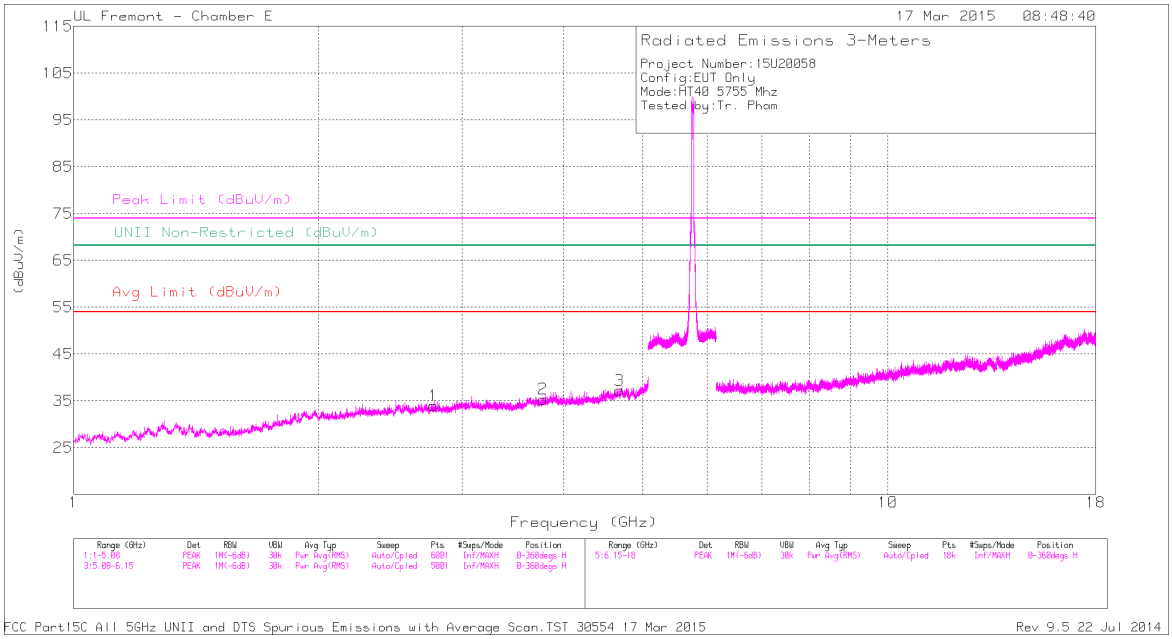
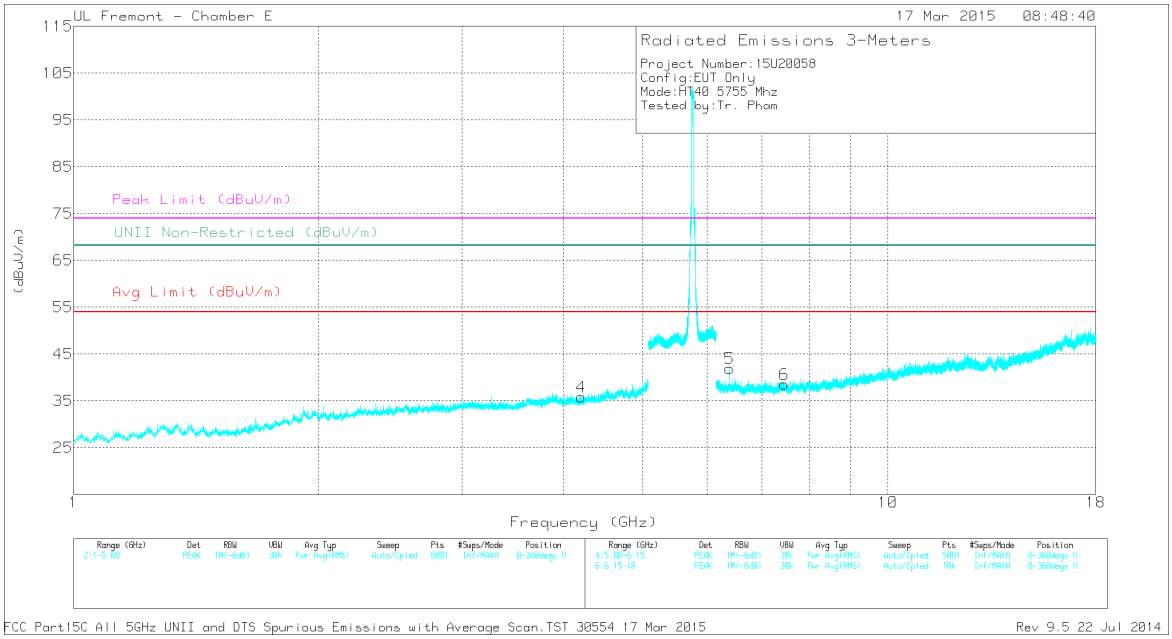
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.766	42.04	PK1	32.4	-32.2	0	42.24	-	-	74	-31.76	-	-	2	101	H
	* 2.765	30.94	AD1	32.4	-32.2	.09	31.23	54	-22.77	-	-	-	-	2	101	H
2	* 3.773	42.69	PK1	33.4	-31.8	0	44.29	-	-	74	-29.71	-	-	2	101	H
	* 3.772	30.76	AD1	33.4	-31.8	.09	32.45	54	-21.55	-	-	-	-	2	101	H
3	* 4.68	41.35	PK1	34.2	-29.8	0	45.75	-	-	74	-28.25	-	-	2	101	H
	* 4.68	29.55	AD1	34.2	-29.8	.09	34.04	54	-19.96	-	-	-	-	2	101	H
4	* 4.205	42.25	PK1	33.5	-31.6	0	44.15	-	-	74	-29.85	-	-	2	101	V
	* 4.206	30.62	AD1	33.5	-31.6	.09	32.61	54	-21.39	-	-	-	-	2	101	V
6	* 7.465	39.01	PK1	35.6	-28.8	0	45.81	-	-	74	-28.19	-	-	2	101	V
	* 7.466	28.91	AD1	35.6	-28.8	.09	35.8	54	-18.2	-	-	-	-	2	101	V
5	6.395	39.74	PK1	35.5	-29	0	46.24	-	-	-	-	68.2	-21.96	2	101	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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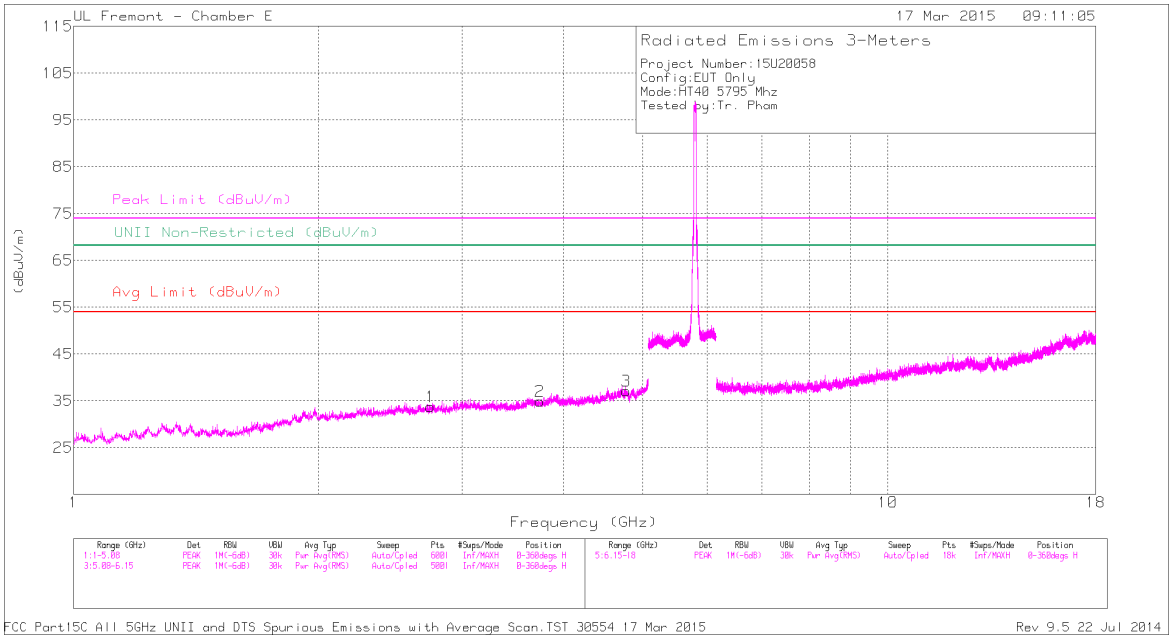
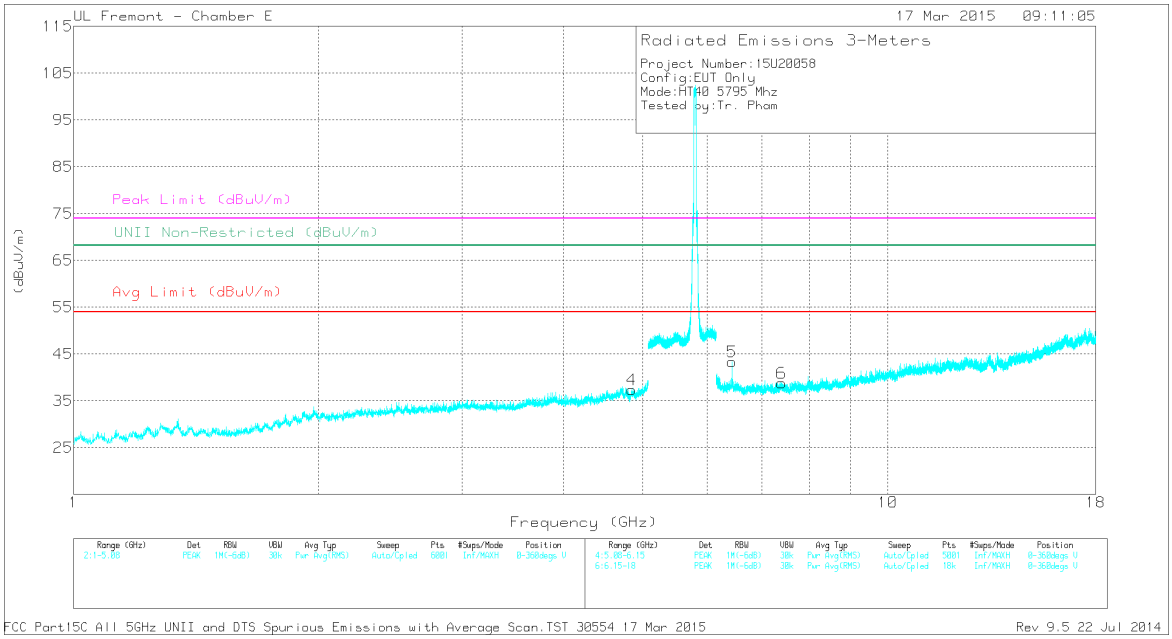
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.744	42.59	PK1	32.4	-32.1	0	42.89	-	-	74	-31.11	-	-	1	100	H
	* 2.745	30.52	AD1	32.4	-32.2	.09	30.81	54	-23.19	-	-	-	-	1	100	H
2	* 3.736	41.96	PK1	33.3	-31.9	0	43.36	-	-	74	-30.64	-	-	1	100	H
	* 3.736	30.63	AD1	33.3	-31.9	.09	32.12	54	-21.88	-	-	-	-	1	100	H
3	* 4.773	41.91	PK1	34.1	-30.4	0	45.61	-	-	74	-28.39	-	-	1	100	H
	* 4.774	30.49	AD1	34.1	-30.4	.09	34.28	54	-19.72	-	-	-	-	1	100	H
4	* 4.849	41.57	PK1	34.1	-30.4	0	45.27	-	-	74	-28.73	-	-	1	100	V
	* 4.848	30.17	AD1	34.1	-30.4	.09	33.96	54	-20.04	-	-	-	-	1	100	V
6	* 7.404	39.55	PK1	35.5	-27.6	0	47.45	-	-	74	-26.55	-	-	334	233	V
	* 7.404	27.63	AD1	35.5	-27.6	.09	35.62	54	-18.38	-	-	-	-	334	233	V
5	6.439	45.37	PK1	35.5	-29.3	0	51.57	-	-	-	-	68.2	-16.63	334	233	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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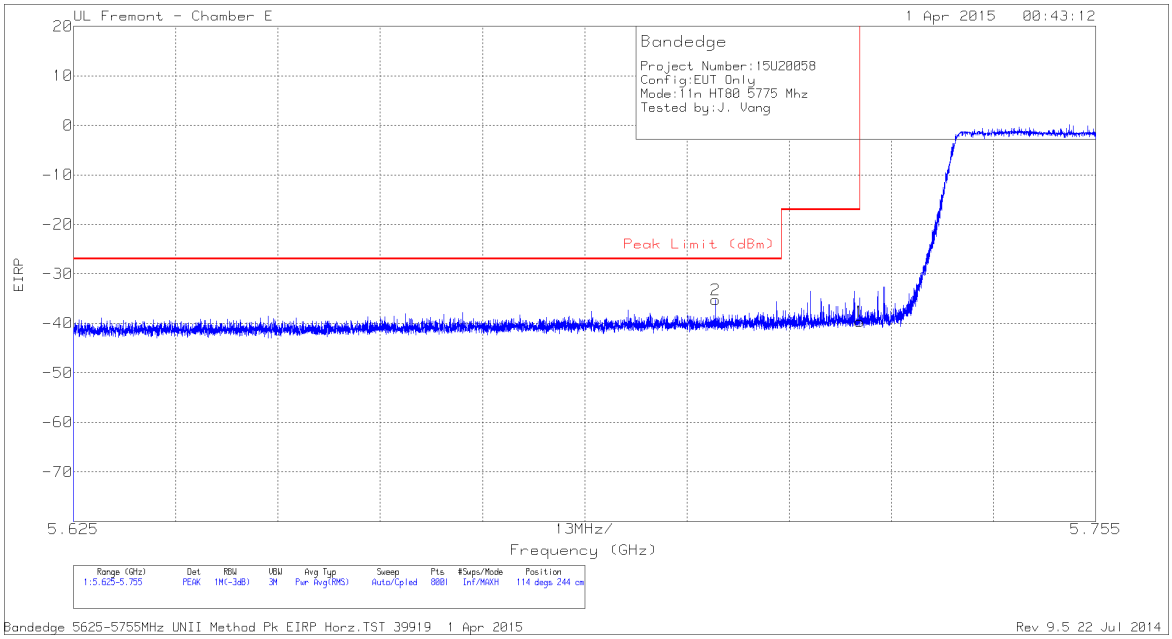
9.13. 802.11ac 80Mhz SISO MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (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
2	5.707	-60.74	PK	34.7	-21	11.8	0	-35.24	-27	-8.24	114	244	H
1	5.725	-65.34	PK	34.7	-20.8	11.8	0	-39.64	-17	-22.64	114	244	H

PK - Peak detector

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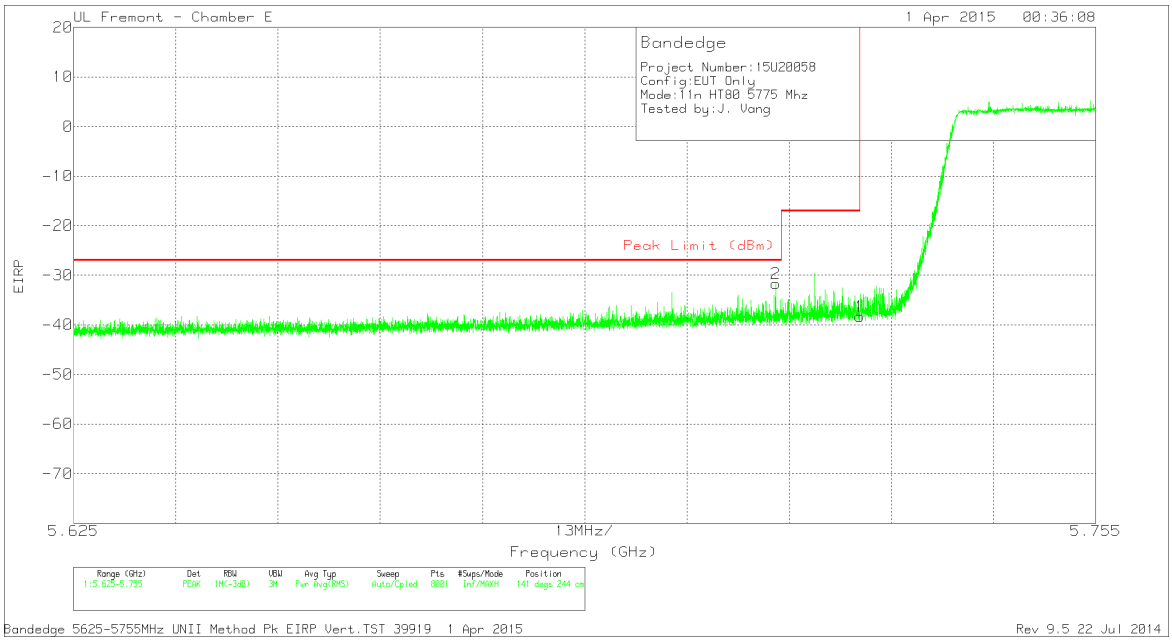
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (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
2	5.714	-57.21	PK	34.7	-21	11.8	0	-31.71	-27	-4.71	141	244	V
1	5.725	-63.99	PK	34.7	-20.8	11.8	0	-38.29	-17	-21.29	141	244	V

PK - Peak detector

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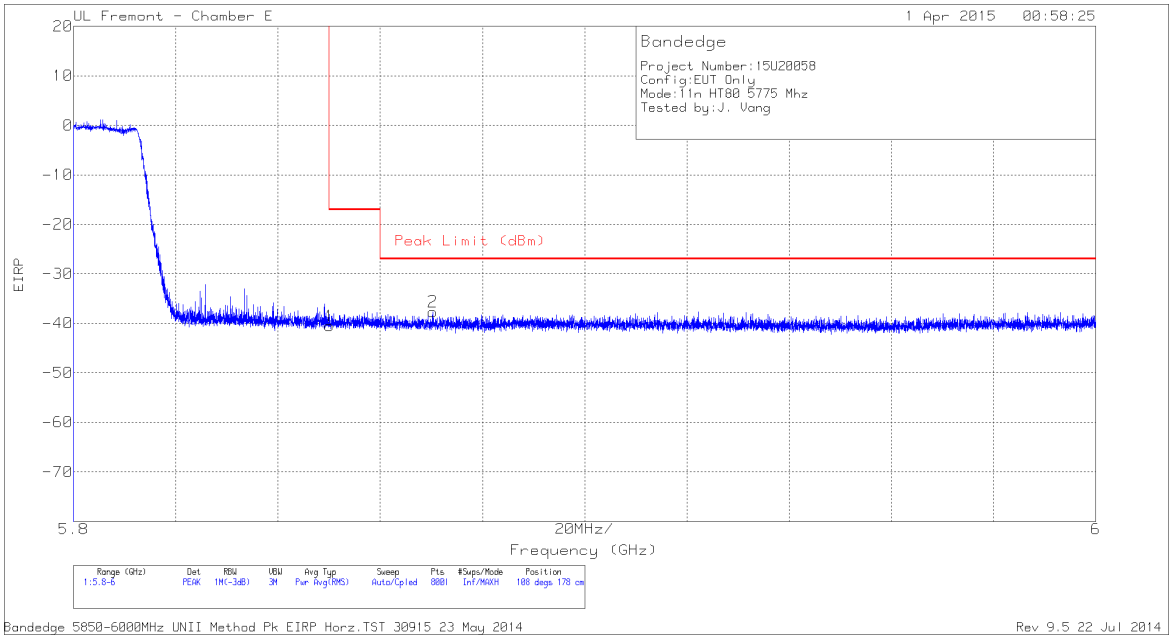
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.93	PK	34.9	-20.3	11.8	-40.53	-17	-23.53	108	178	H
2	5.87	-63.83	PK	34.9	-20.5	11.8	-37.63	-27	-10.63	108	178	H

PK - Peak detector

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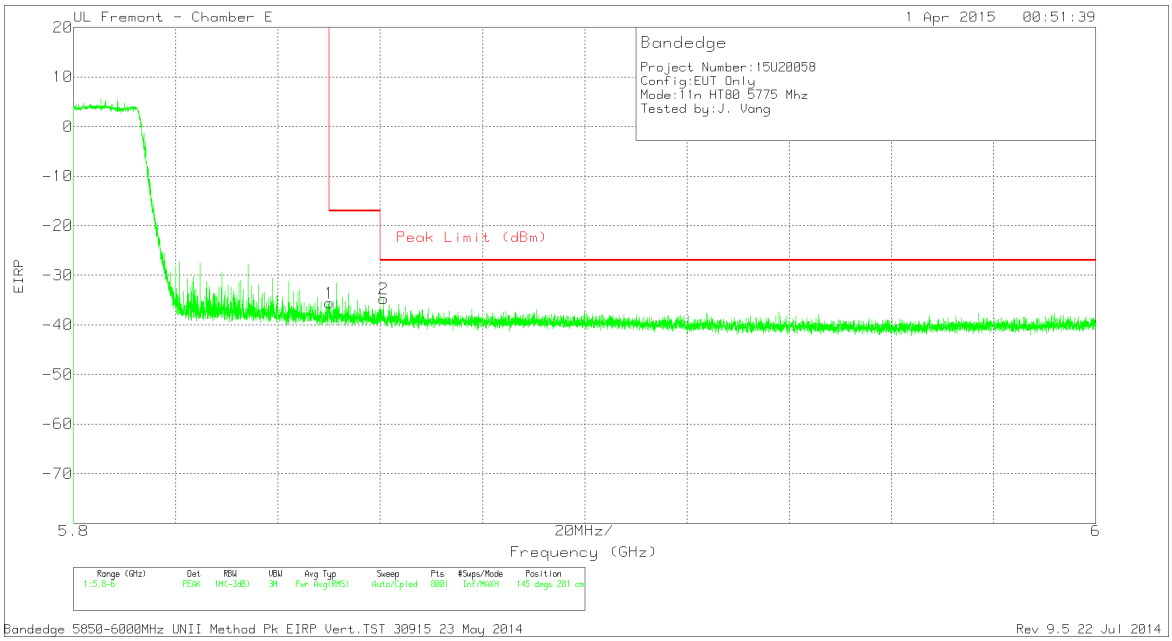
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-62.01	PK	34.9	-20.3	11.8	-35.61	-17	-18.61	145	281	V
2	5.861	-61.14	PK	34.9	-20.3	11.8	-34.74	-27	-7.74	145	281	V

PK - Peak detector

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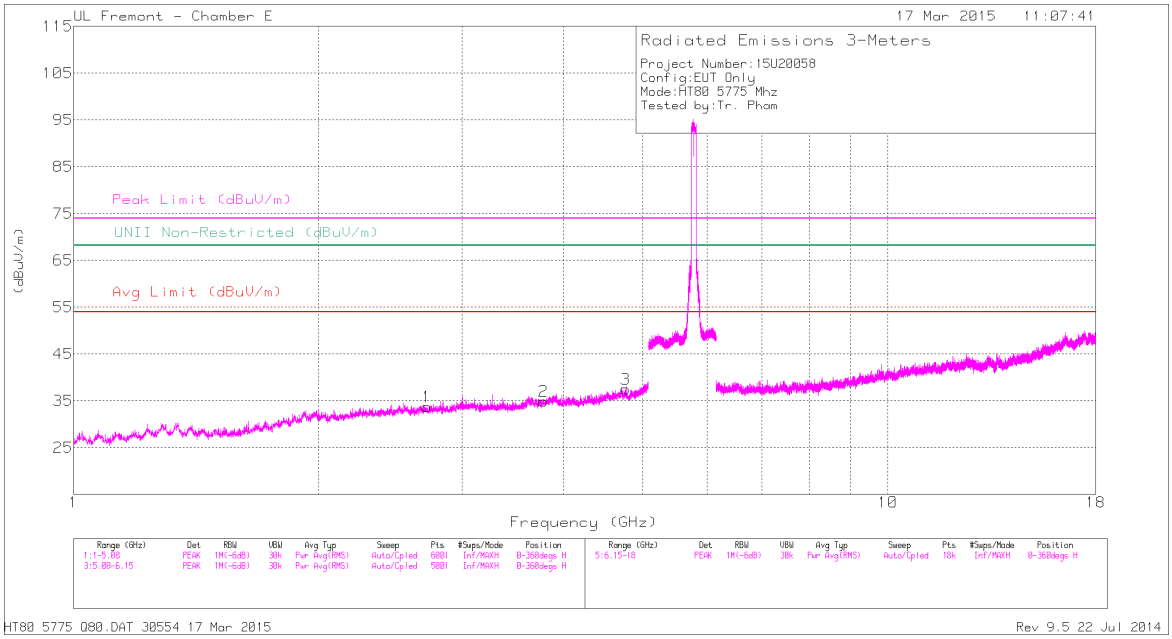
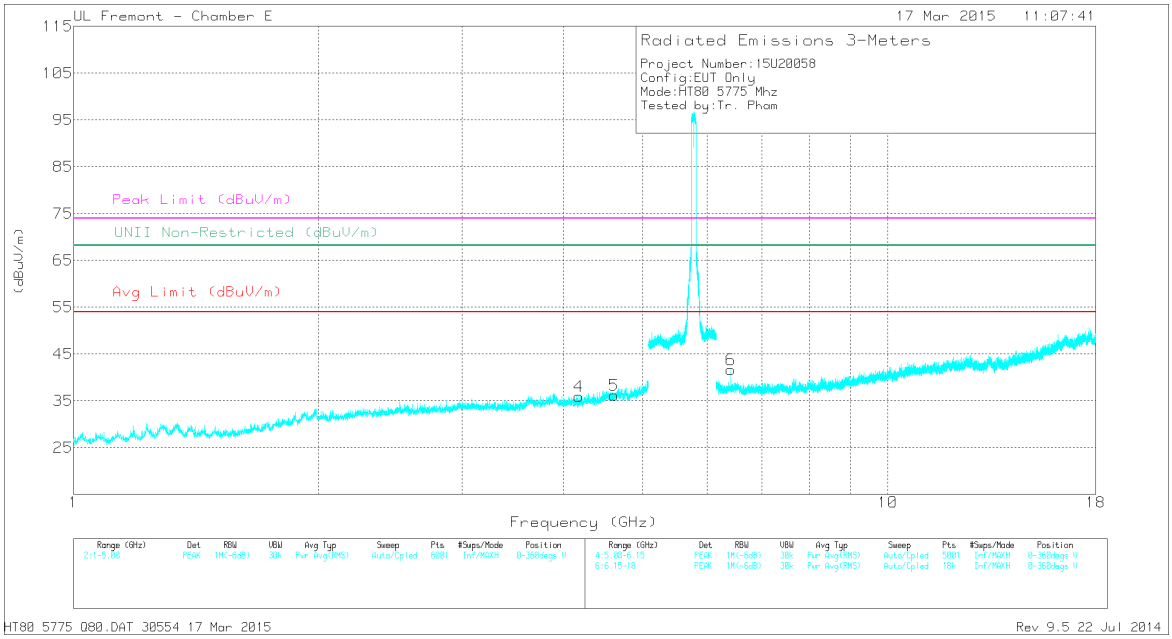
CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.714	42.74	PK1	32.4	-32.3	0	42.84	-	-	74	-31.16	-	-	2	101	H
	* 2.714	30.7	AD1	32.4	-32.3	.2	31	54	-23	-	-	-	-	2	101	H
2	* 3.78	42.29	PK1	33.4	-31.9	0	43.79	-	-	74	-30.21	-	-	2	101	H
	* 3.78	30.6	AD1	33.4	-31.9	.2	32.3	54	-21.7	-	-	-	-	2	101	H
3	* 4.768	42.85	PK1	34.1	-30.5	0	46.45	-	-	74	-27.55	-	-	2	101	H
	* 4.768	31.22	AD1	34.1	-30.5	.2	35.02	54	-18.98	-	-	-	-	2	101	H
4	* 4.175	41.17	PK1	33.4	-31.4	0	43.17	-	-	74	-30.83	-	-	2	101	V
	* 4.176	29.96	AD1	33.4	-31.4	.2	32.16	54	-21.84	-	-	-	-	2	101	V
5	* 4.614	40.87	PK1	34.1	-30.6	0	44.37	-	-	74	-29.63	-	-	2	101	V
	* 4.613	29.67	AD1	34.1	-30.6	.2	33.37	54	-20.63	-	-	-	-	2	101	V
6	6.416	43.38	PK1	35.5	-29.1	0	49.78	-	-	-	-	68.2	-18.42	153	274	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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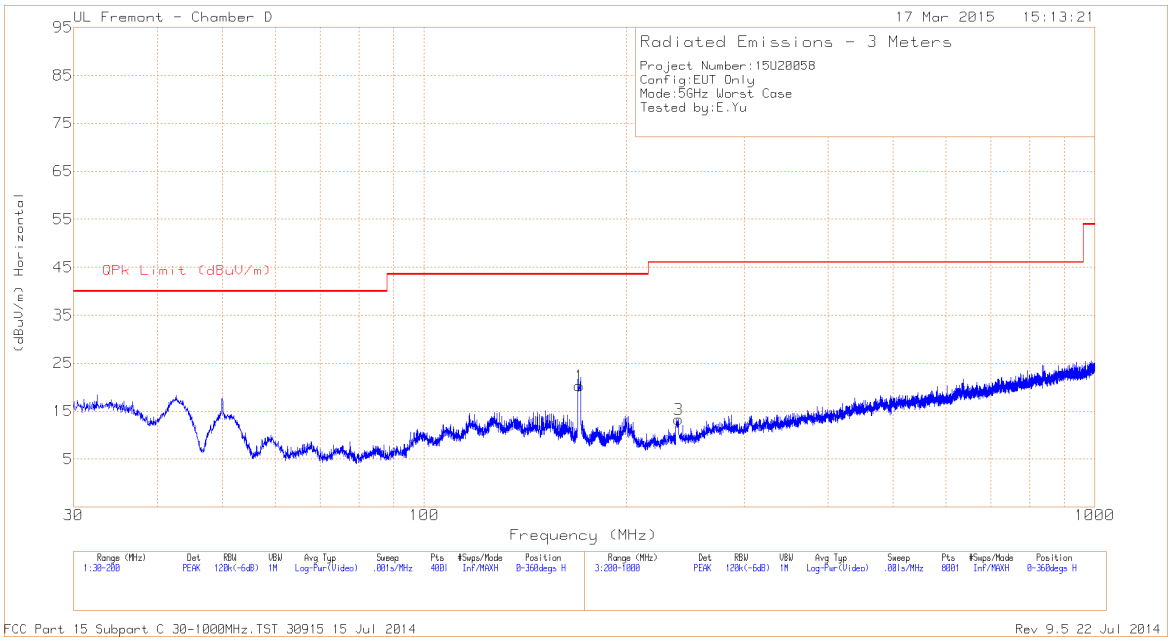
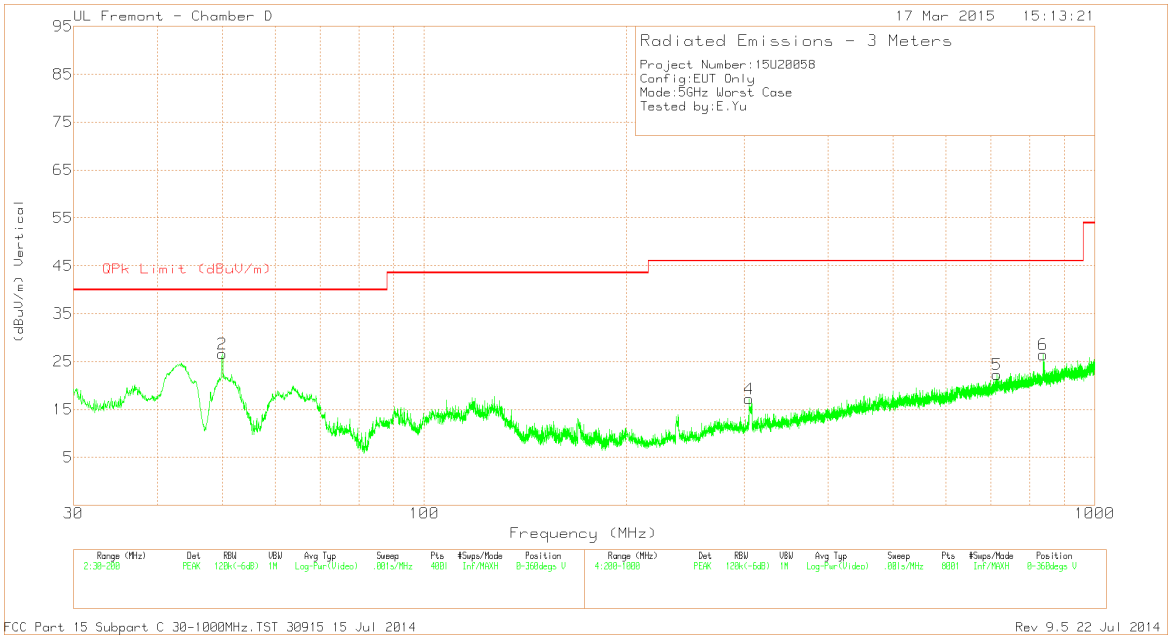
9.14. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



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HORIZONTAL AND VERTICAL DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 170.2925	39.67	PK	11.6	-31	20.27	43.52	-23.25	0-360	98	H
3	239.5	32.54	PK	11.4	-30.6	13.34	46.02	-32.68	0-360	401	H
4	305.2	34.31	PK	13.3	-30.4	17.21	46.02	-28.81	0-360	301	V
2	49.975	50.18	PK	8.1	-31.7	26.58	40	-13.42	0-360	100	V
5	714.7	31.32	PK	20.3	-29.3	22.32	46.02	-23.7	0-360	100	V
6	836.8	33.93	PK	21.3	-28.8	26.43	46.02	-19.59	0-360	100	V

* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

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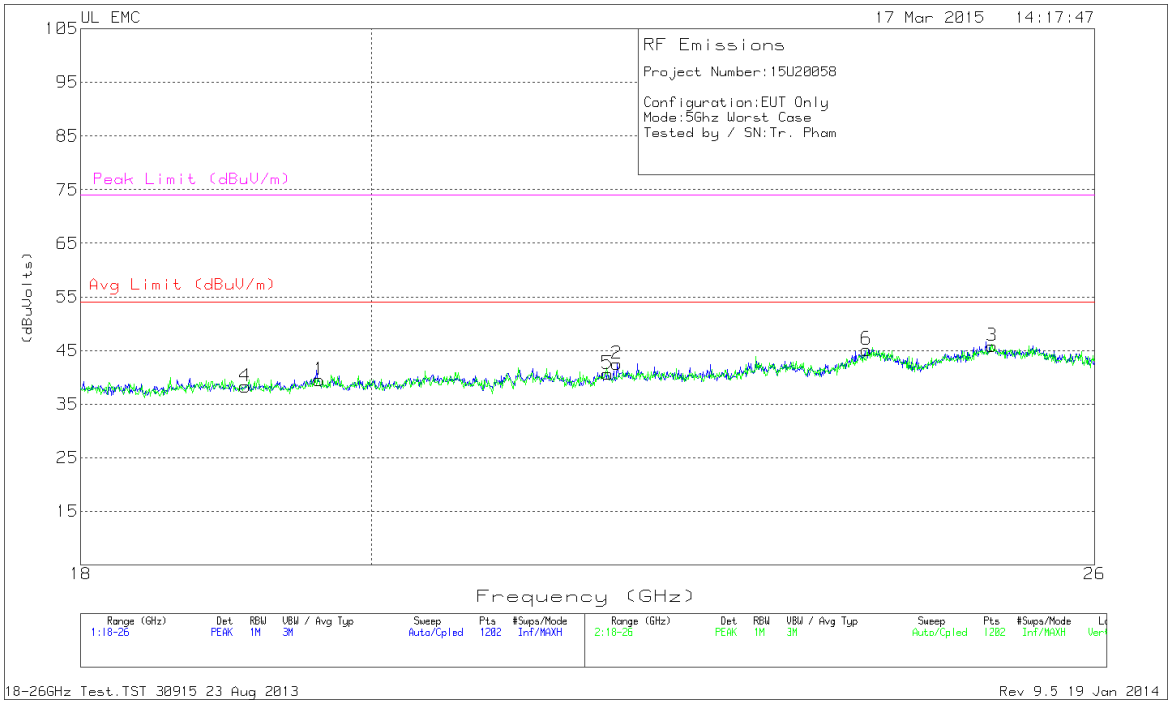
9.15. WORST-CASE ABOVE 18 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

HORIZONTAL AND VERTICAL PLOT



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HORIZONTAL AND VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.625	40.2	PK	32.9	-24.1	-9.5	39.5	54	-14.5	74	-34.5
2	21.863	42	PK	33.7	-23.7	-9.5	42.5	54	-11.5	74	-31.5
3	25.051	43.33	PK	34.5	-22.5	-9.5	45.83	54	-8.166	74	-28.167
4	19.106	38.93	PK	32.9	-24	-9.5	38.33	54	-15.66	74	-35.67
5	21.79	39.67	PK	33.7	-23.2	-9.5	40.67	54	-13.33	74	-33.33
6	23.935	43.27	PK	34.2	-22.8	-9.5	45.16	54	-8.83	74	-28.83

PK - Peak detector

18-26GHz Test.TST 30915 23 Aug 2013 Rev 9.5 19 Jan 2014

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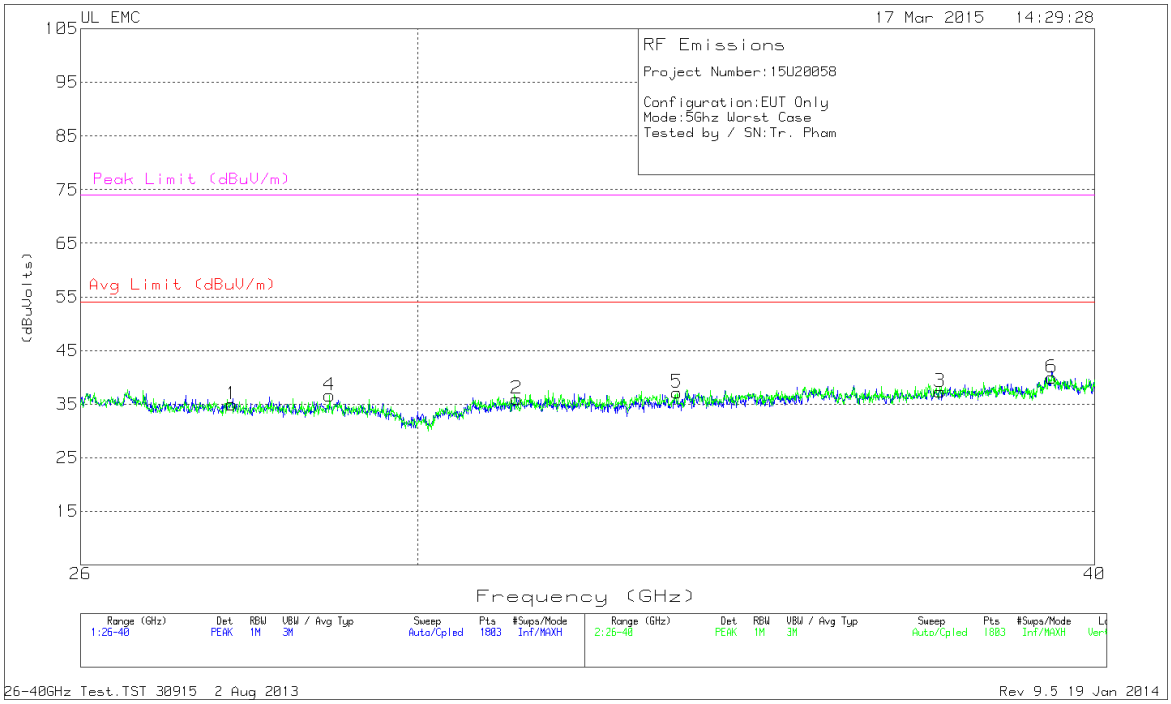
SPURIOUS EMISSIONS 26000 TO 40000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

HORIZONTAL AND VERTICAL PLOT



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HORIZONTAL AND VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.721	43.3	PK	35.8	-34.6	-9.5	35	54	-19	74	-39
2	31.291	46.5	PK	36	-37	-9.5	36	54	-18	74	-38
3	37.452	48.83	PK	37.3	-39.3	-9.5	37.33	54	-16.66	74	-36.67
4	28.898	46.17	PK	35.8	-35.8	-9.5	36.67	54	-17.33	74	-37.33
5	33.497	46.67	PK	37.1	-37.1	-9.5	37.167	54	-16.83	74	-36.83
6	39.277	47.8	PK	38.5	-36.8	-9.5	40	54	-14	74	-34

PK - Peak detector

26-40GHz Test.TST 30915 2 Aug 2013 Rev 9.5 19 Jan 2014

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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

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

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

RESULTS

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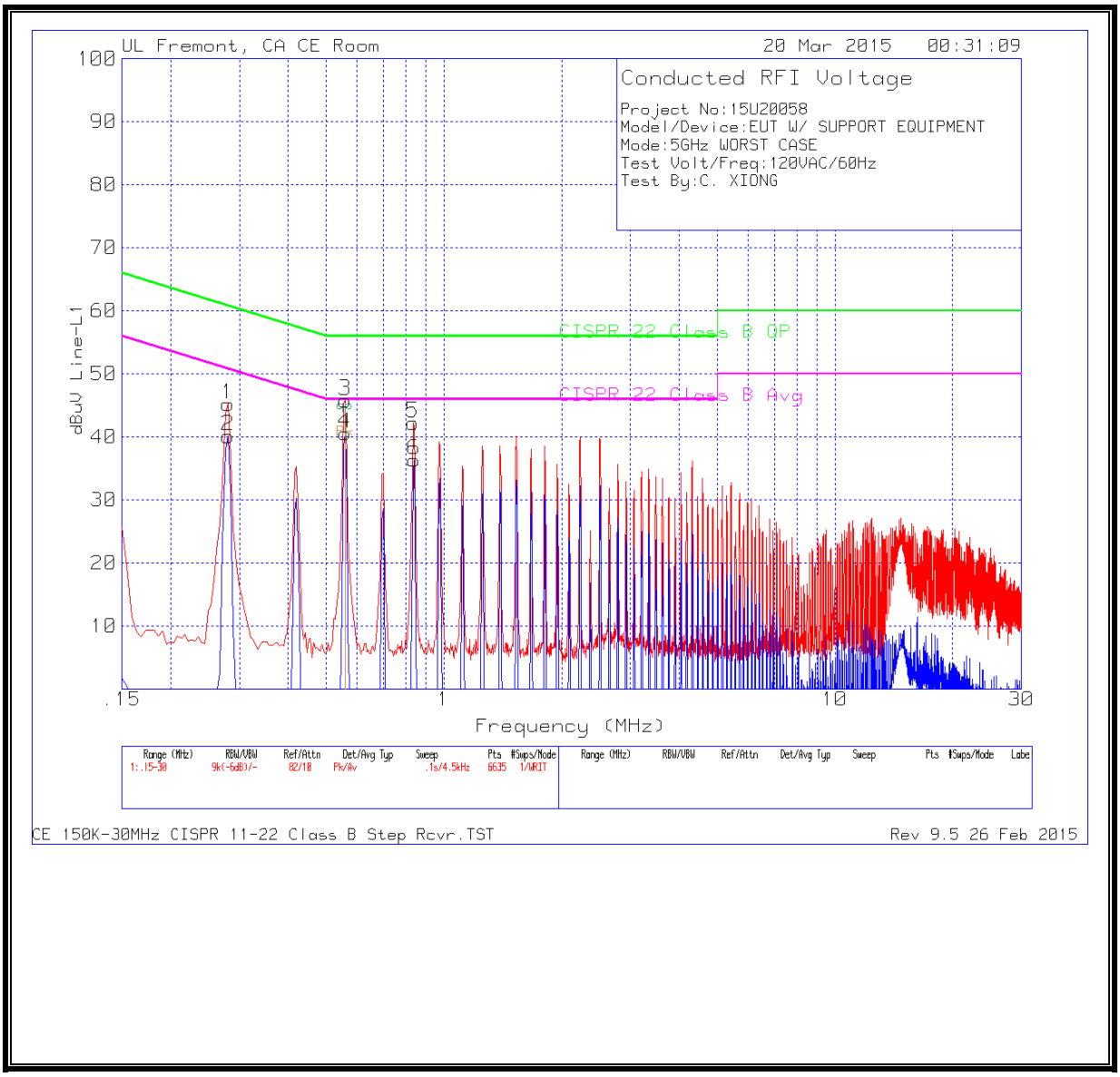
LINE 1 RESULTS



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WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.2805	44.62	Pk	.6	0	45.22	60.8	-15.58	-	-
2	.2805	39.55	Av	.6	0	40.15	-	-	50.8	-10.65
3	.5595	45.49	Pk	.3	0	45.79	56	-10.21	-	-
4	.5595	40.3	Av	.3	0	40.6	-	-	46	-5.4
5	.834	41.94	Pk	.3	0	42.24	56	-13.76	-	-
6	.8385	36.05	Av	.3	0	36.35	-	-	46	-9.65

Pk - Peak detector

Av - Average detection

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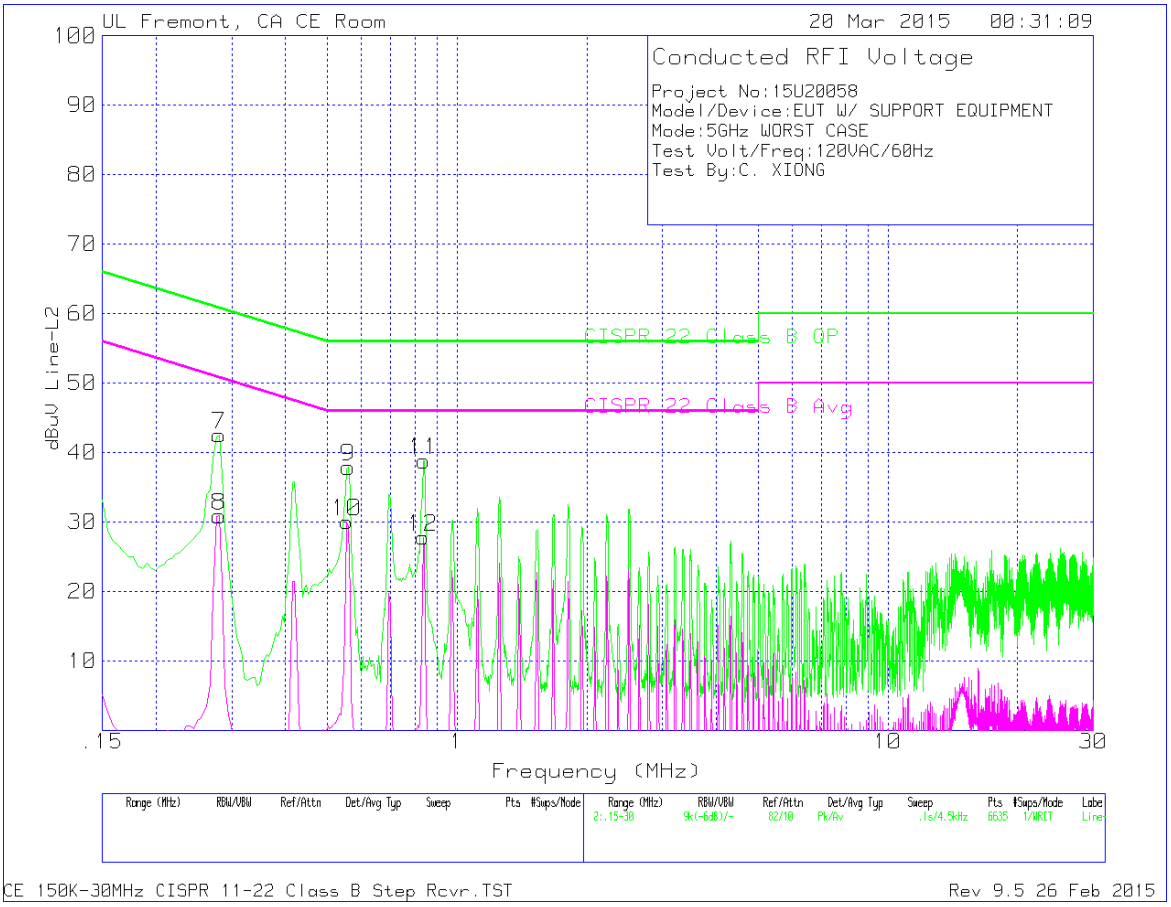
LINE 2 RESULTS



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WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
7	.2805	41.94	Pk	.6	0	42.54	60.8	-18.26	-	-
8	.2805	30.3	Av	.6	0	30.9	-	-	50.8	-19.9
9	.5595	37.61	Pk	.3	0	37.91	56	-18.09	-	-
10	.555	29.76	Av	.3	0	30.06	-	-	46	-15.94
11	.83625	38.53	Pk	.3	0	38.83	56	-17.17	-	-
12	.834	27.51	Av	.3	0	27.81	-	-	46	-18.19

Pk - Peak detector

Av - Average detection

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11. DYNAMIC FREQUENCY SELECTION

11.1. OVERVIEW

11.1.1. LIMITS

INDUSTRY CANADA

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

RSS-210 Issue 8

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”.

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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)
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	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.		

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

Maximum Transmit Power	Value (see notes)
E.I.R.P. ≥ 200 milliwatt	-64 dBm
E.I.R.P. < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
E.I.R.P. < 200 milliwatt 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
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3)

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: 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 a *Channel* 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 *U-NII Detection Bandwidth* 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.

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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) x (19 x 10^6 PRI_{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 *Detection Bandwidth* test, *Channel Move Time*, and *Channel Closing Time* 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

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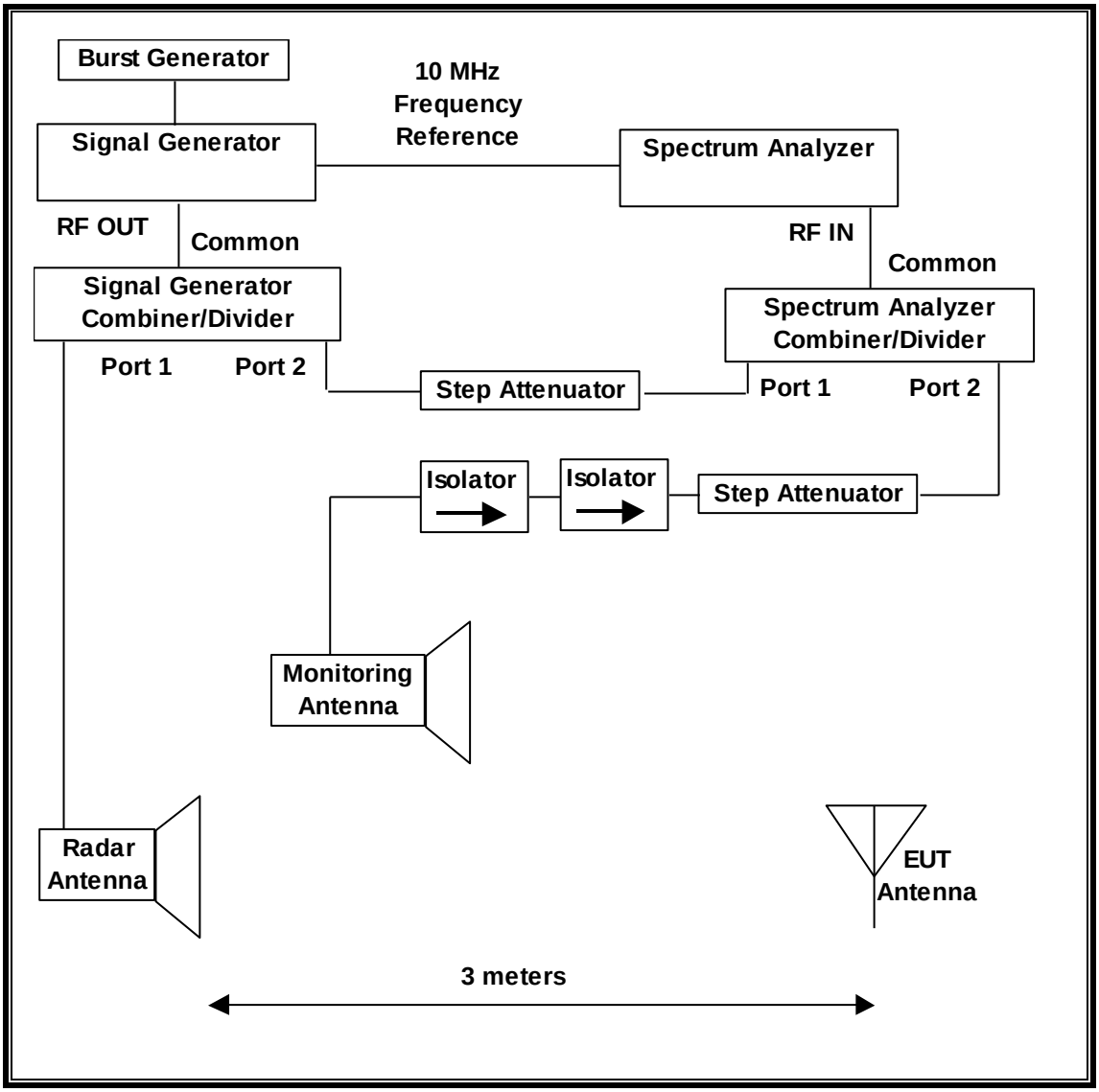
11.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



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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 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.

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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

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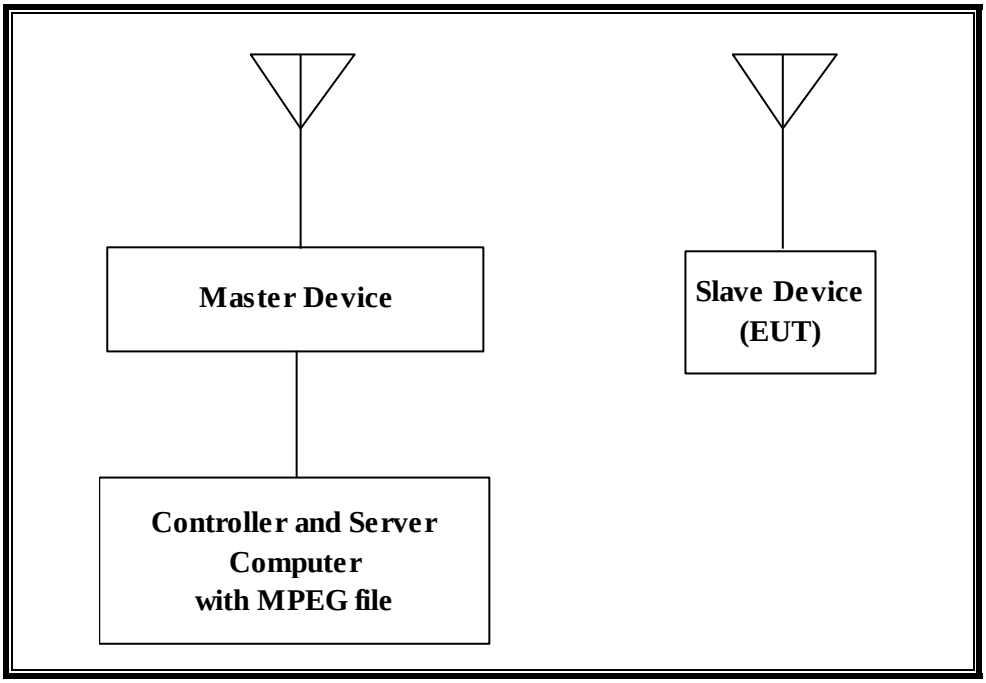
11.1.3. SETUP OF EUT (CLIENT MODE)

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**
802.11a/b/g/n/ac Wireless Access Point (Master Device)	Apple	A1521	CB6KX6B5FJIR	BCGA1521
Personal Computer (Controller/Server)	Apple	A1347	DZHJV02WDTCL	DoC
Monitor (Controller/Server)	Samsung	LN19B360C5D	AZA134NS302514T	DoC
Keyboard (Controller/Server)	Apple	A1243	CC232520MQQDPQ	DoC
Mouse (Controller/Server)	Apple	A1152	CC2251307MQDNY	DoC

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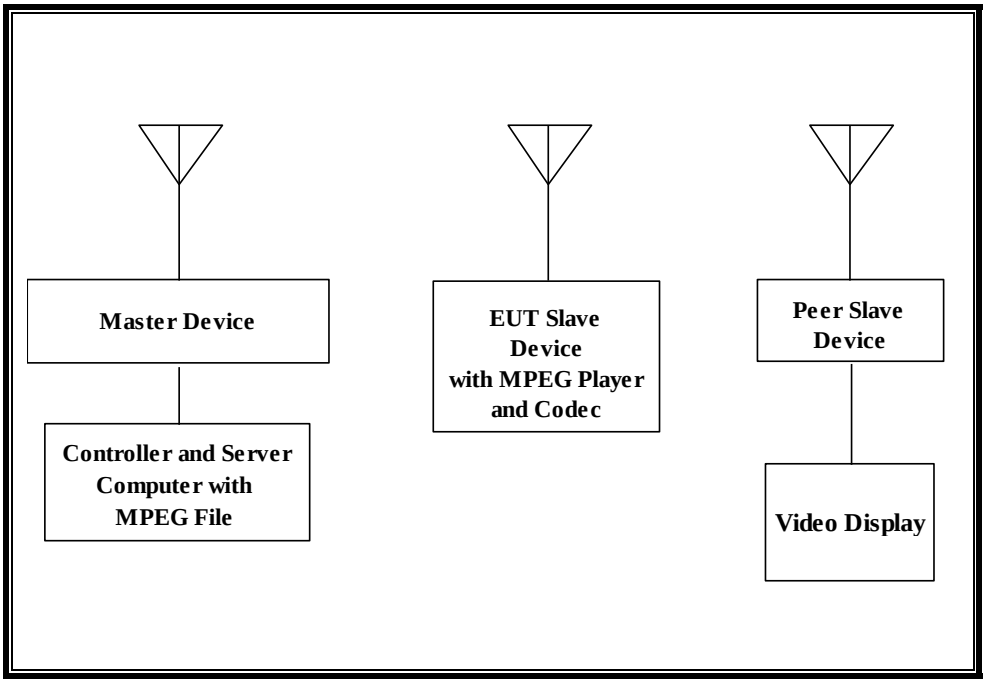
11.1.4. SETUP OF EUT (CLIENT-TO-CLIENT COMMUNICATIONS MODE)

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**
802.11a/b/g/n/ac Wireless Access Point (Master Device)	Apple	A1521	CB6KX6B5FJIR	BCGA1521
Personal Computer (Controller/Server)	Apple	A1347	DZHJV02WDTCL	DoC
Monitor (Controller/Server)	Samsung	LN19B360C5D	AZA134NS302514T	DoC
Keyboard (Controller/Server)	Apple	A1243	CC232520MQQDPQVAL	DoC
Mouse (Controller/Server)	Apple	A1152	CC2251307MQDNYA3	DoC
Apple TV (Peer Slave	Apple	A1469	C07JV1Z7FF54	BCGA1469
Video Display	Dell	U2410f	CN-0FJ525N-72872-1B5-AGAL	DoC

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11.1.5. 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 16.699 dBm EIRP in the 5250-5350 MHz band and 16.242dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of 3.129 dBi in the 5250-5350 MHz band and 3.042 dBi 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 con video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using OPlayer Lite ver. 2.1.01 media player.

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

In Client-to-Client Communications Mode the EUT utilizes the 802.11ac architecture between the EUT and the Master Device 2 where three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz. However, 802.11a/n architecture is utilized between the EUT and the Peer Slave Device in Client-to Client Communications Mode where only two nominal channel bandwidths are implemented: 20 MHz and 40 MHz.

The software installed in the EUT is 12H47.

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

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

The Master Device is an Apple, Inc. Access Point, FCC ID: BCGA1521. The minimum antenna gain for the Master Device is 1.4 dBi.

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 software installed in the access point is 7.7.2d0 Dev.

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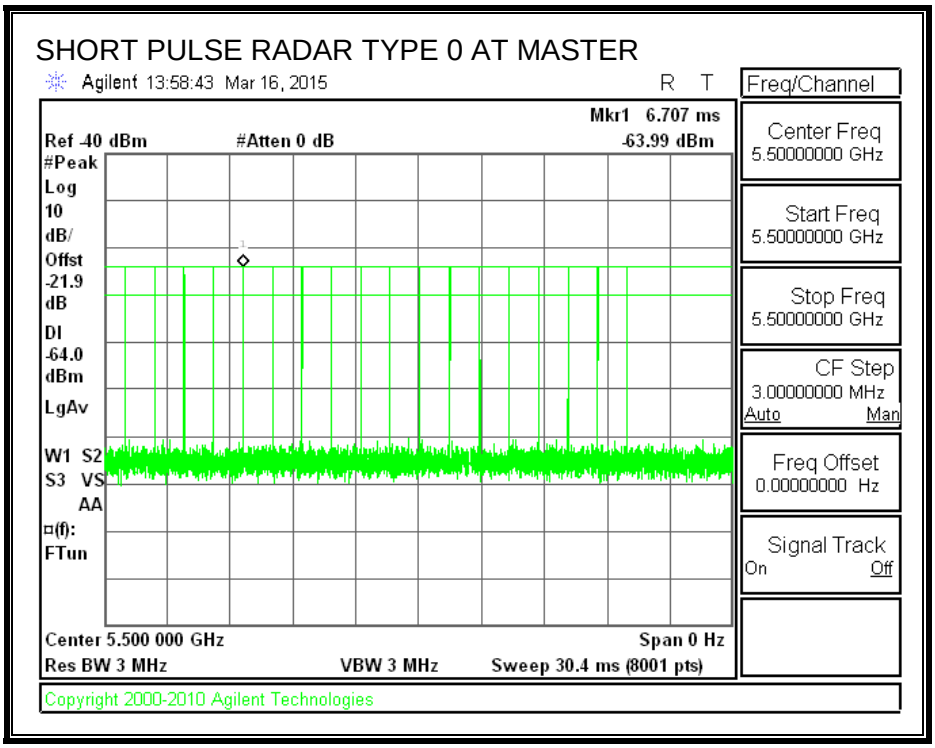
11.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

11.2.1. TEST CHANNEL

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

11.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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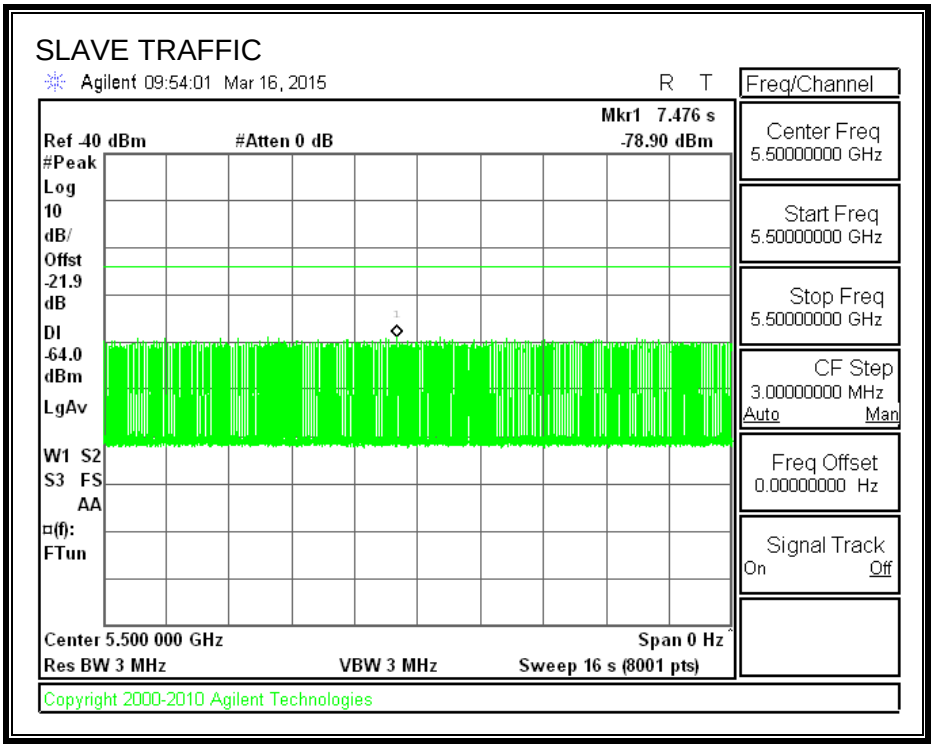
TRAFFIC



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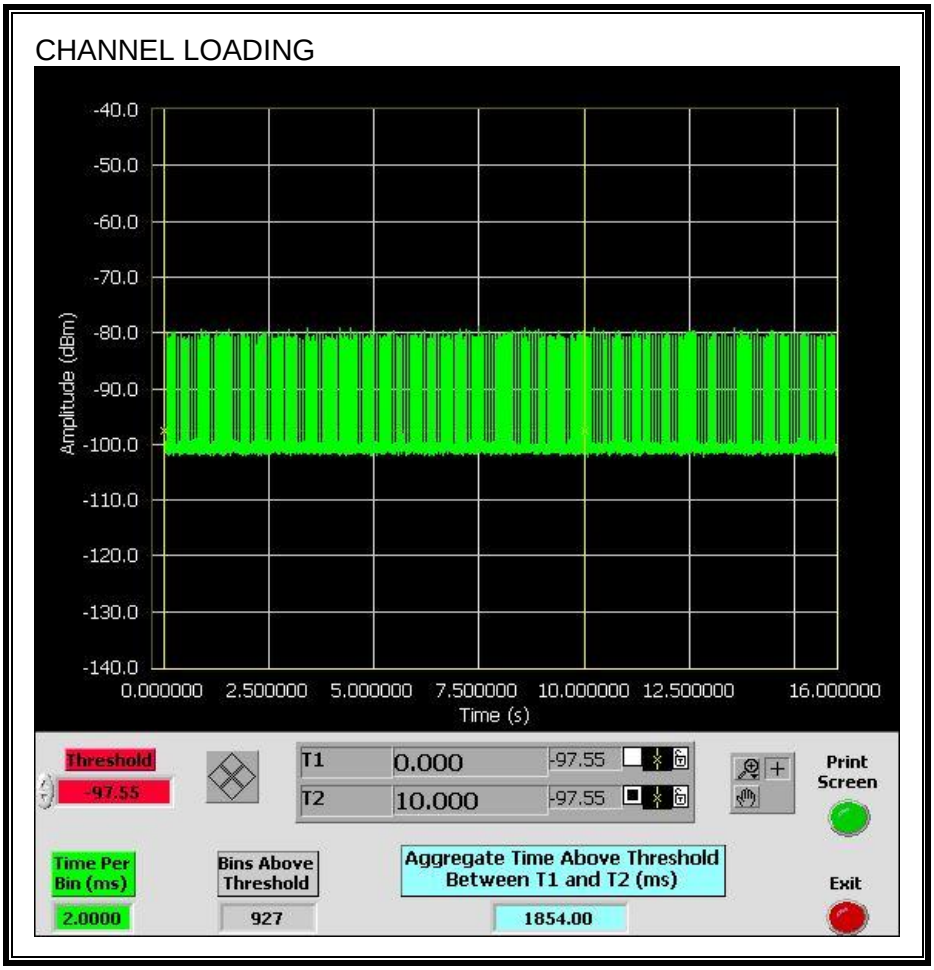
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 18.54%

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11.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.2.4. 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)
3.971	**10**

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
21.0	**60**

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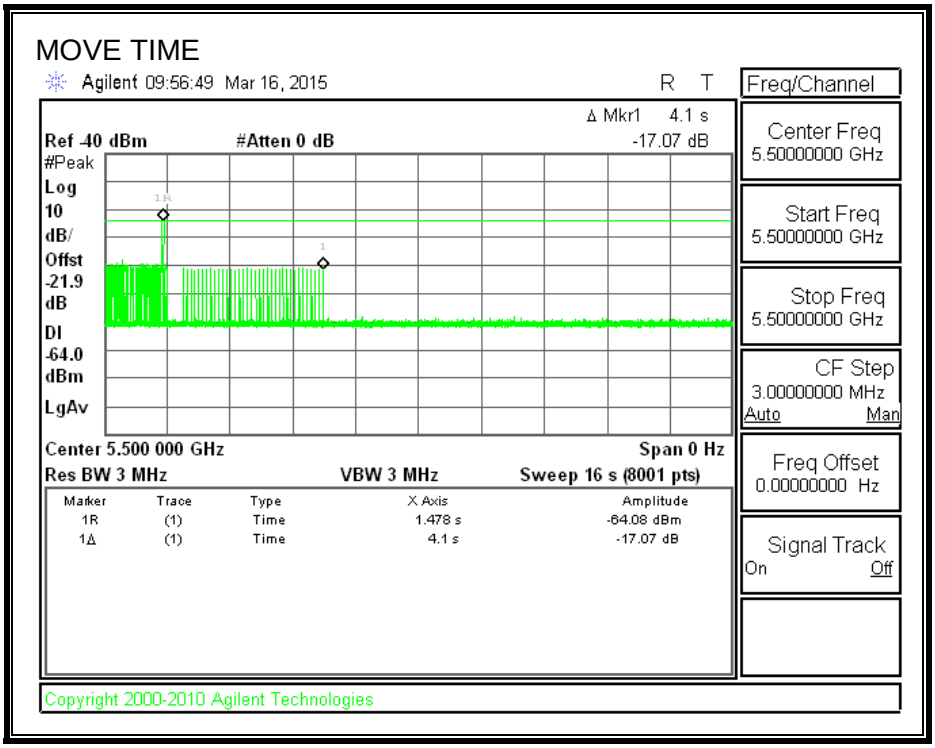
MOVE TIME

16 SECOND SWEEP:



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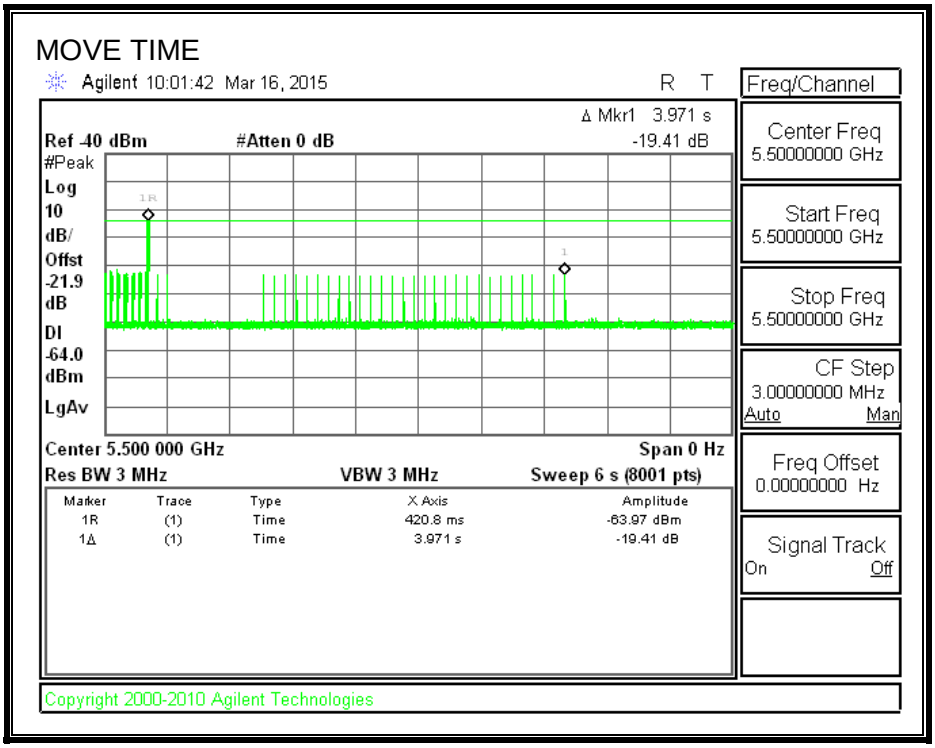
6 SECOND SWEEP:



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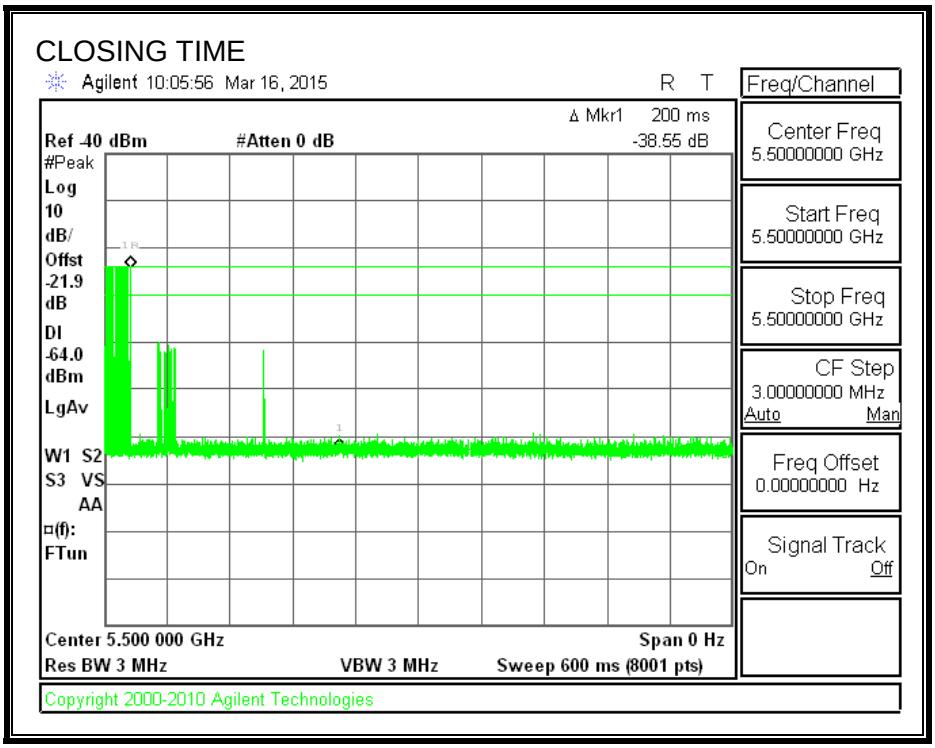
CHANNEL CLOSING TIME



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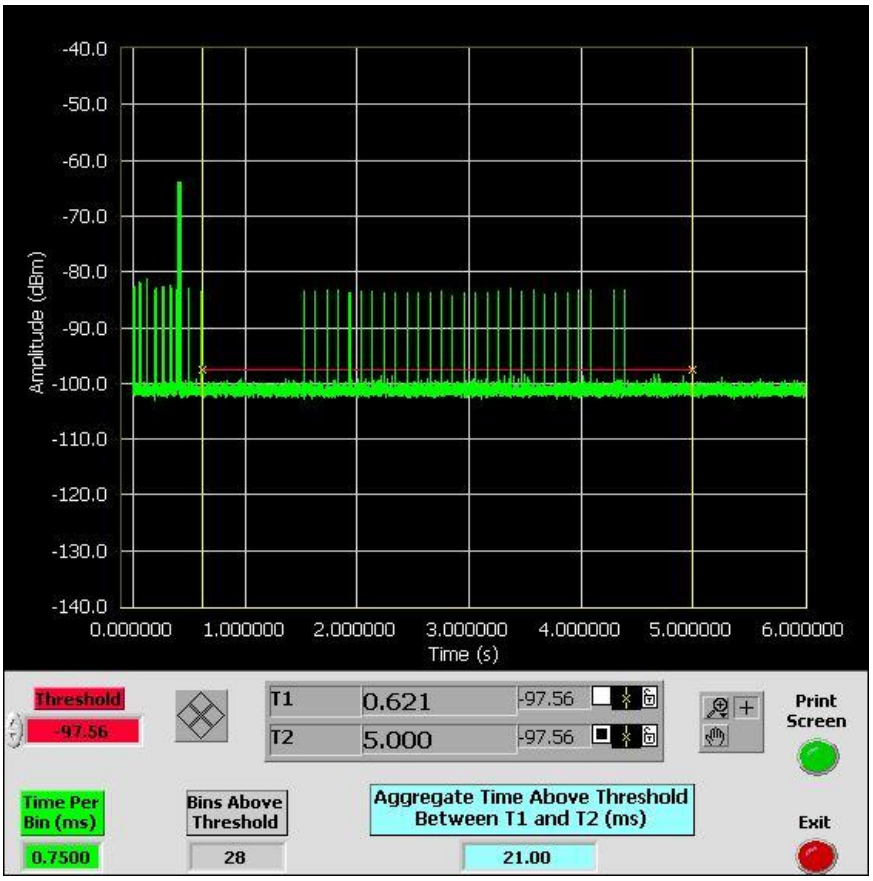
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



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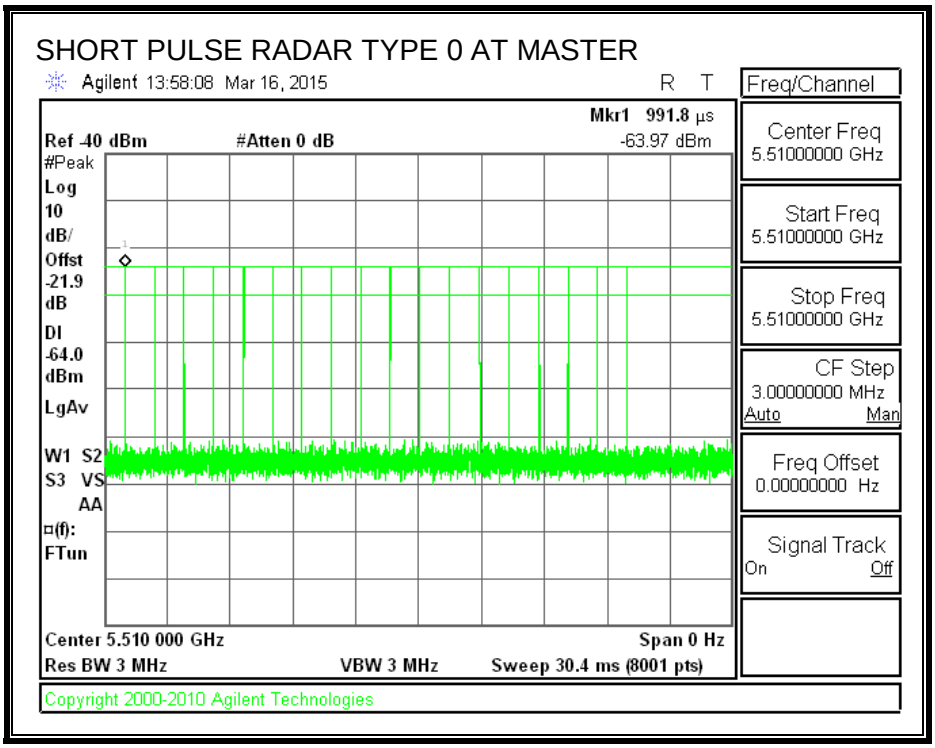
11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

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

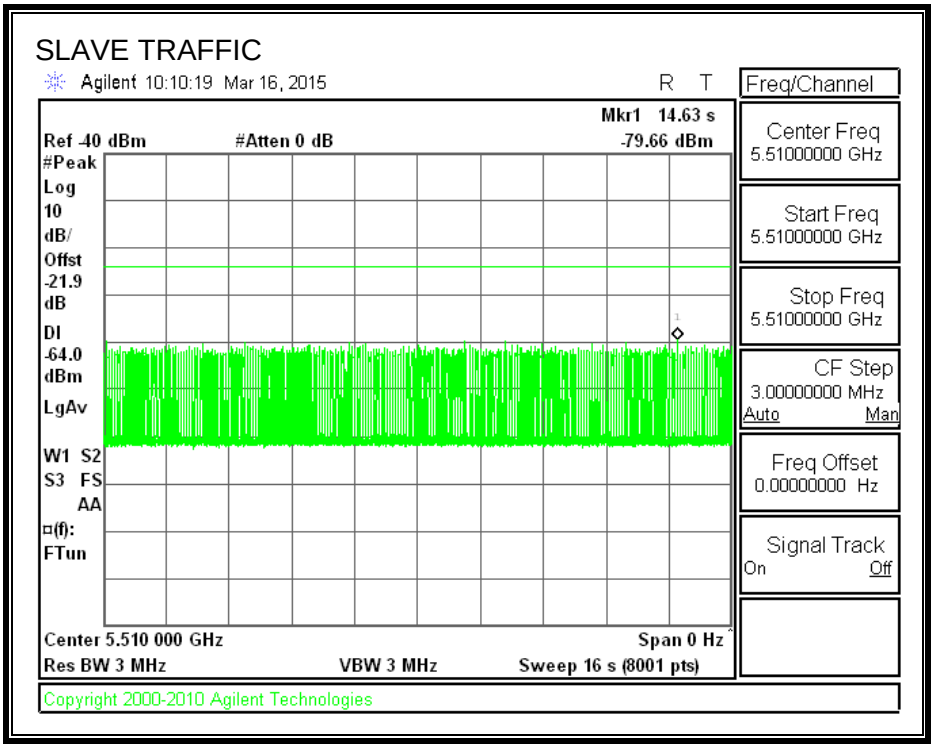
11.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



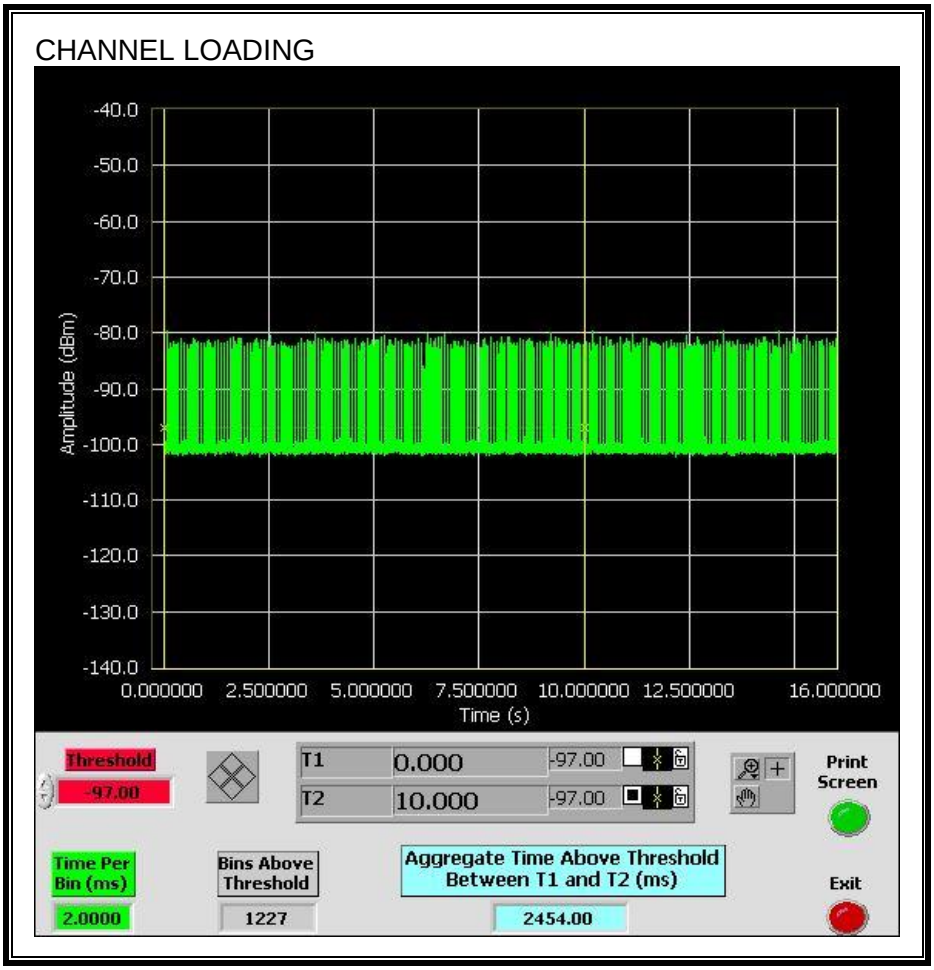
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

TRAFFIC



This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.54%

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11.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.3.4. 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)
4.106	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
21.0	60

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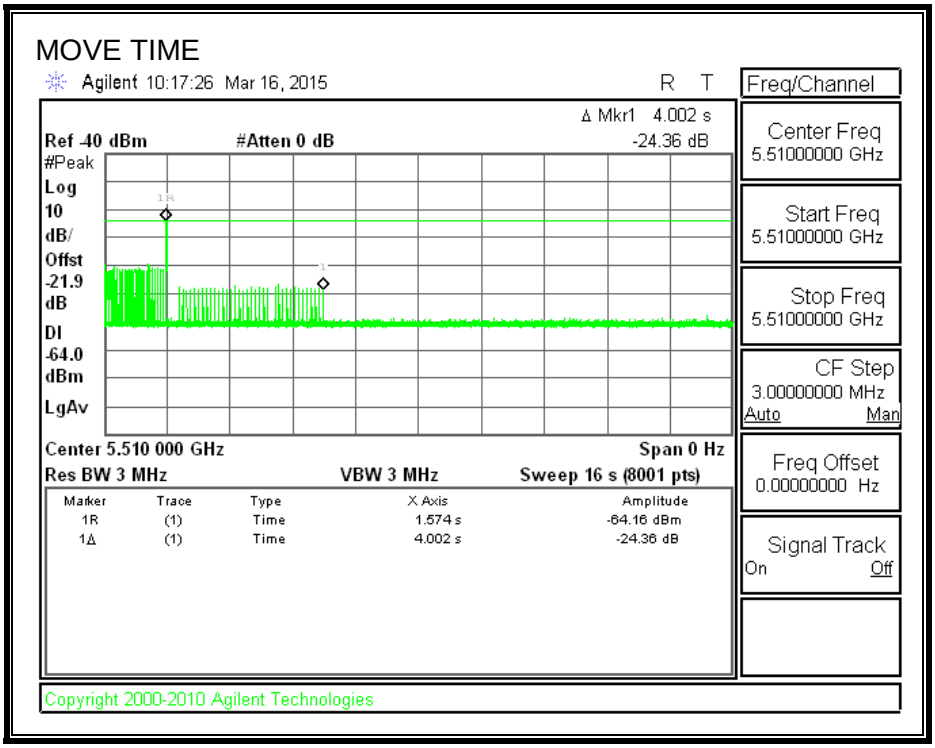
MOVE TIME

16 SECOND SWEEP:



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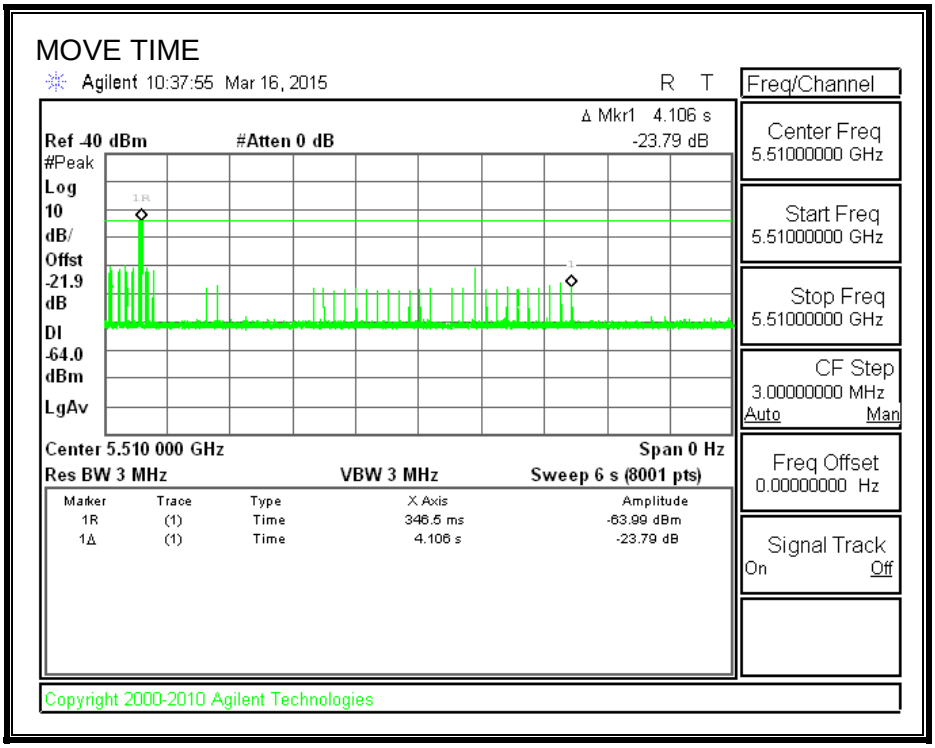
6 SECOND SWEEP:



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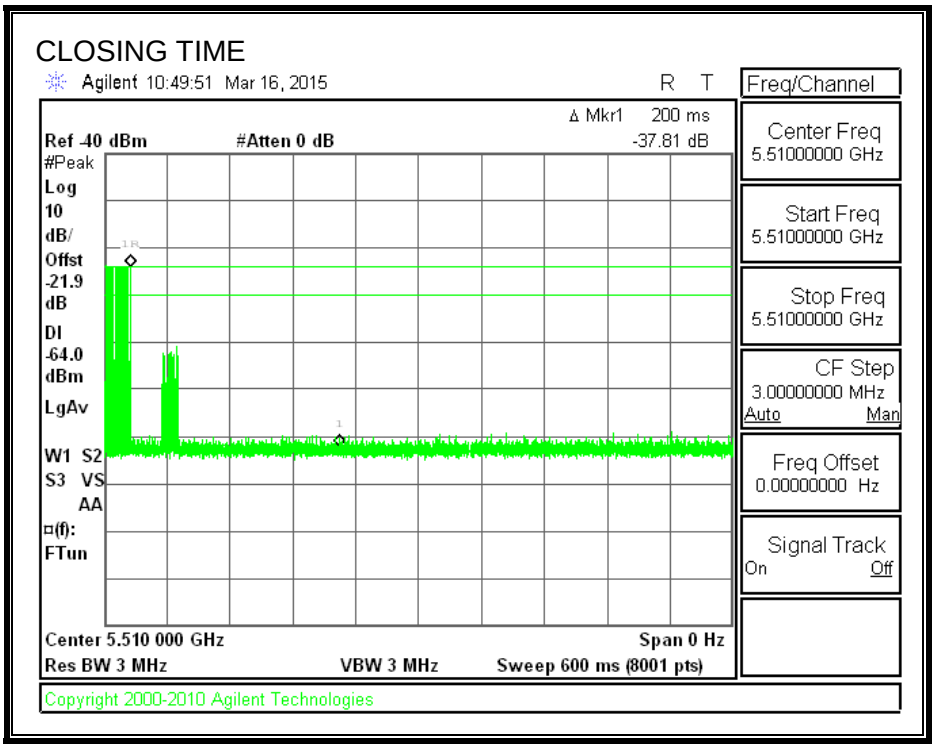
CHANNEL CLOSING TIME



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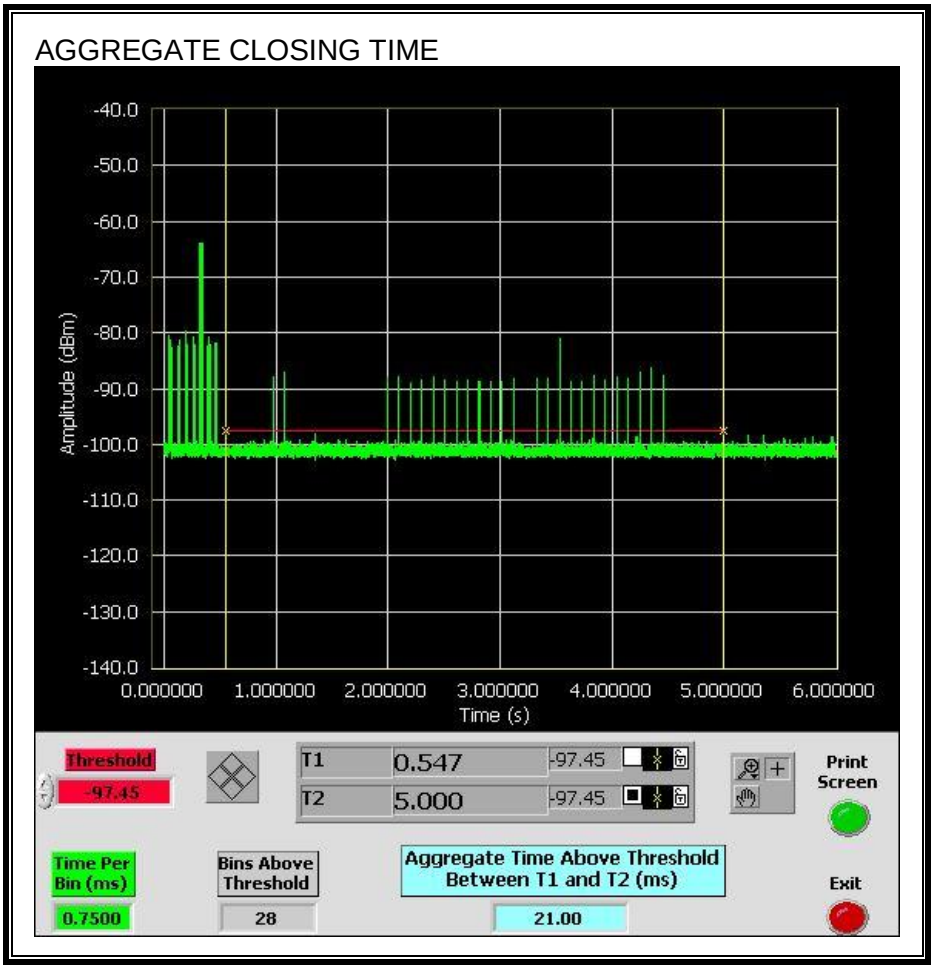
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



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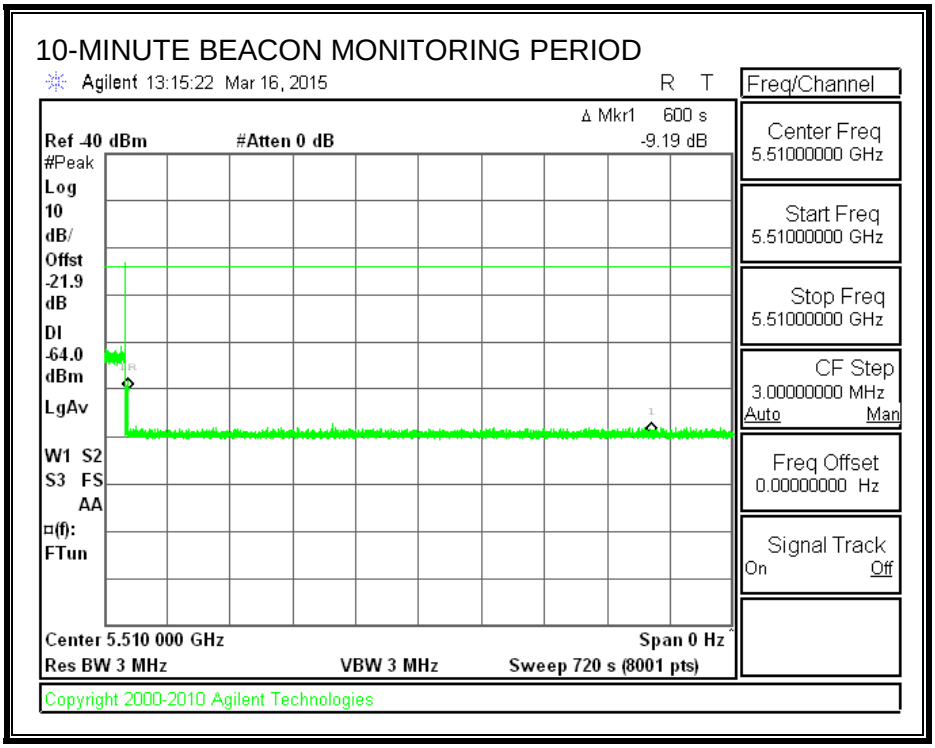
11.3.5. 10-MINUTE BEACON MONITORING PERIOD

RESULTS

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



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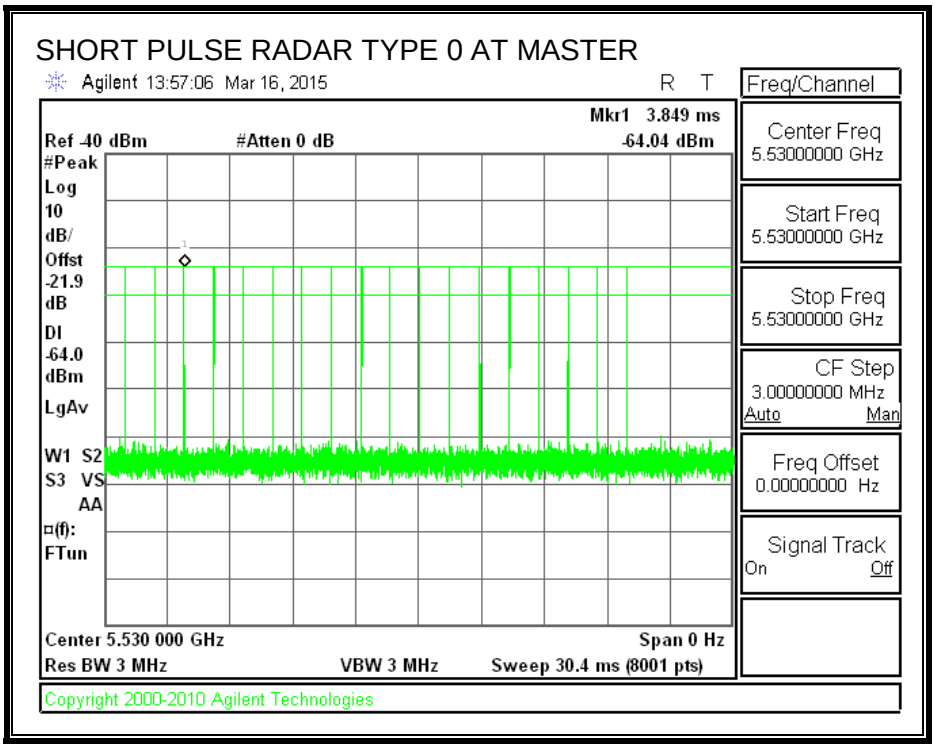
11.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

11.4.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

11.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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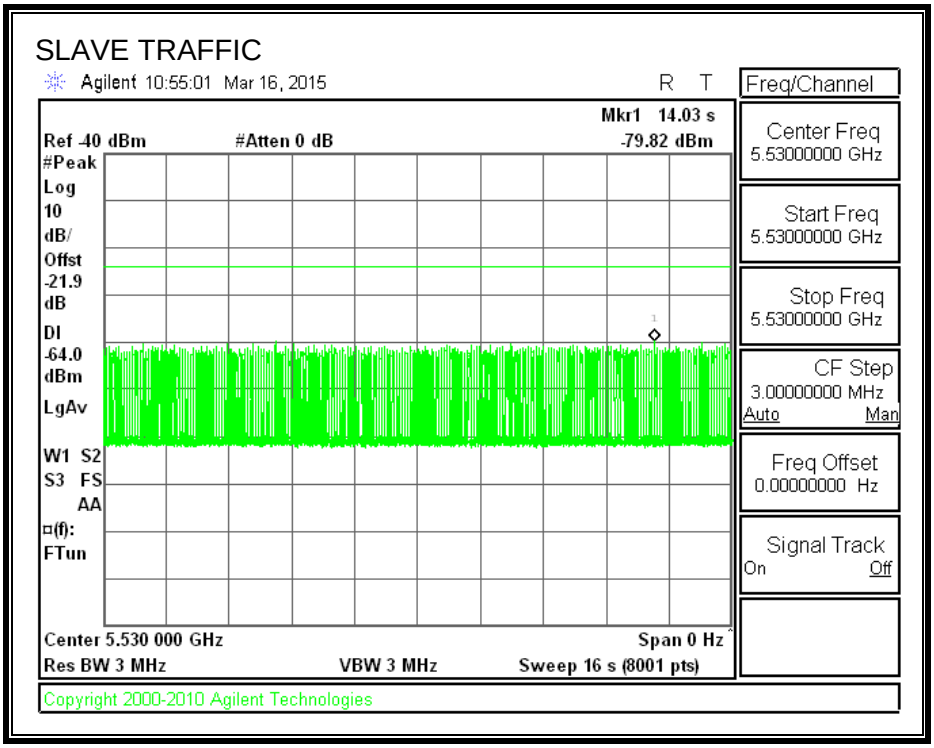
TRAFFIC



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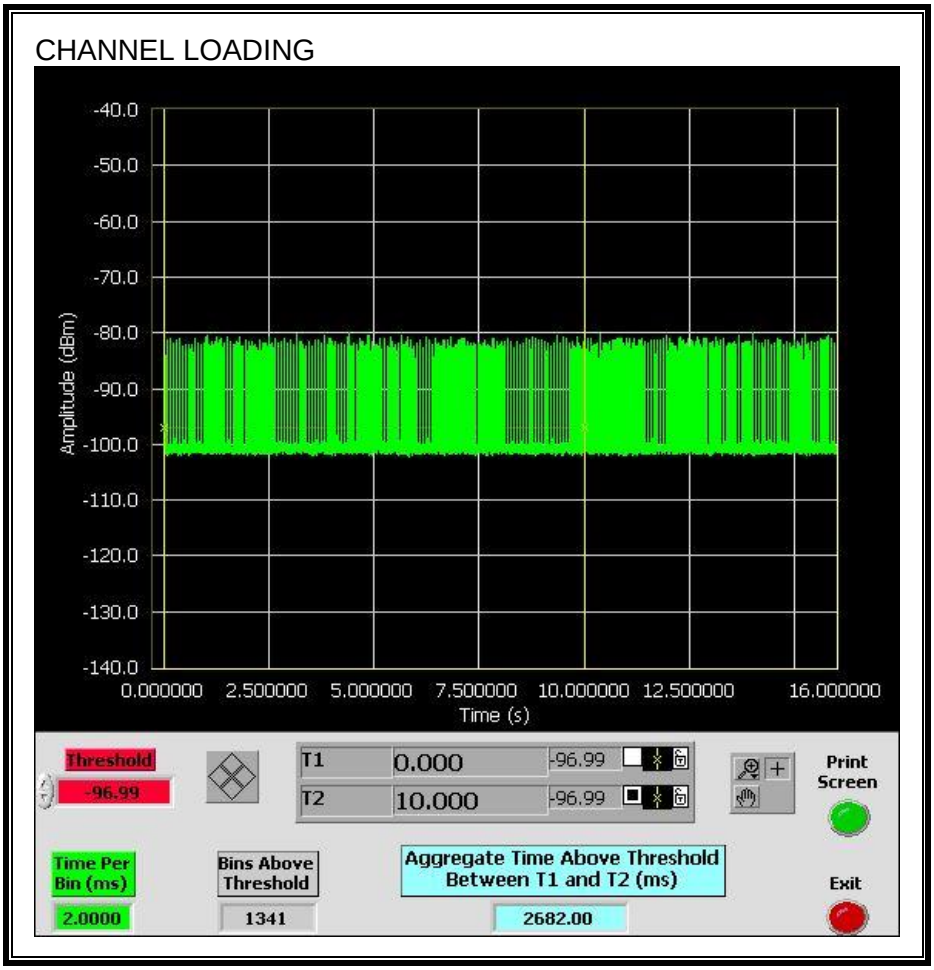
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 26.82%

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11.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.4.4. 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)
3.964	**10**

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
21.0	**60**

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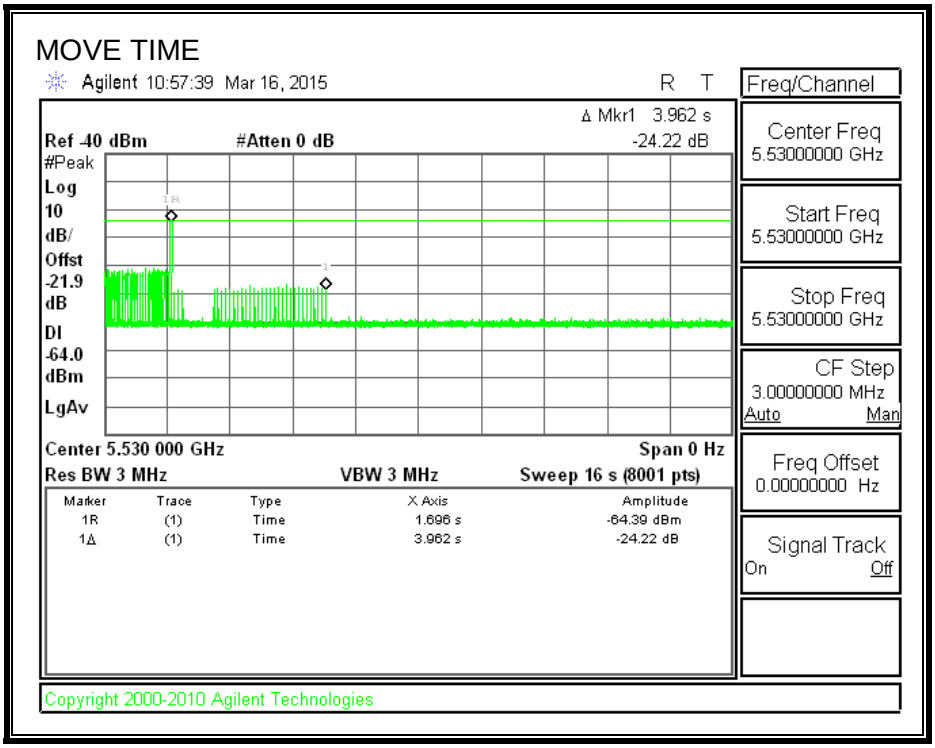
MOVE TIME

16 SECOND SWEEP:



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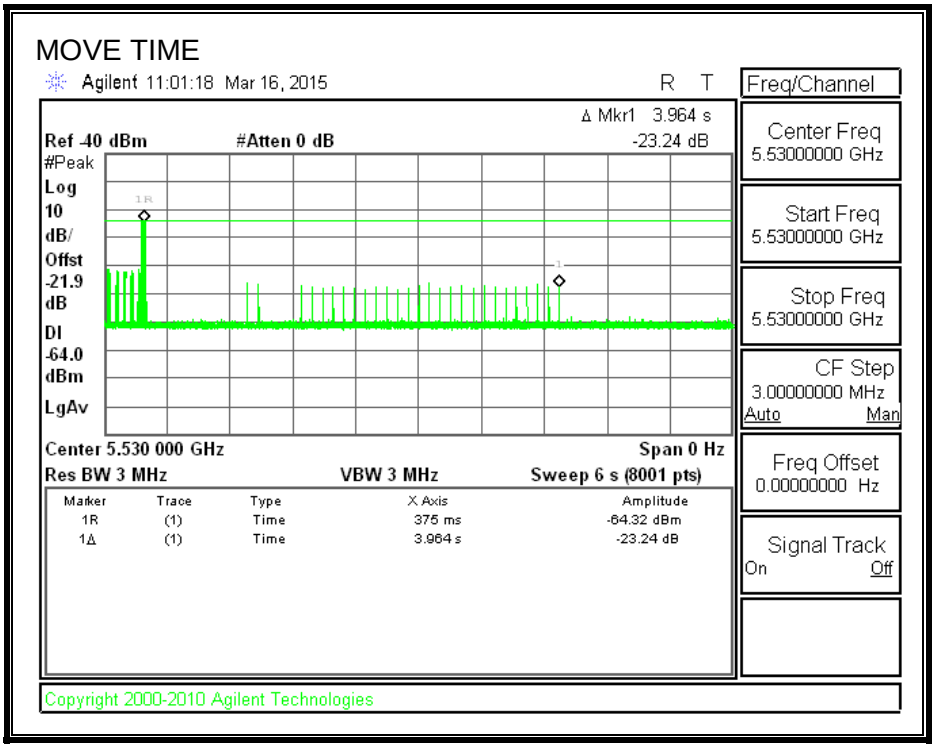
6 SECOND SWEEP:



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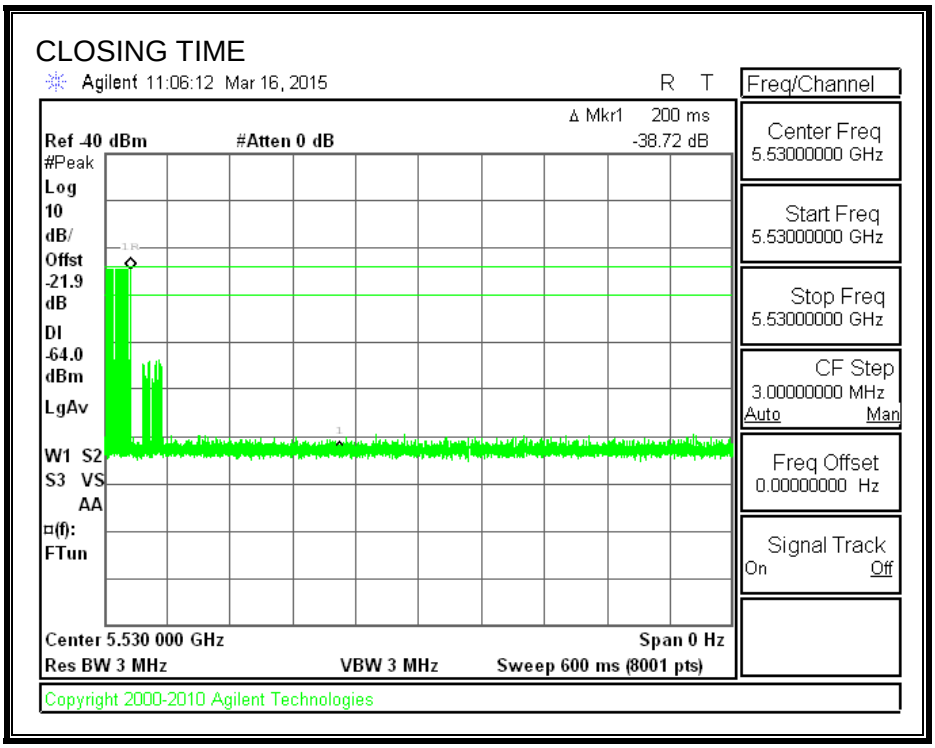
CHANNEL CLOSING TIME



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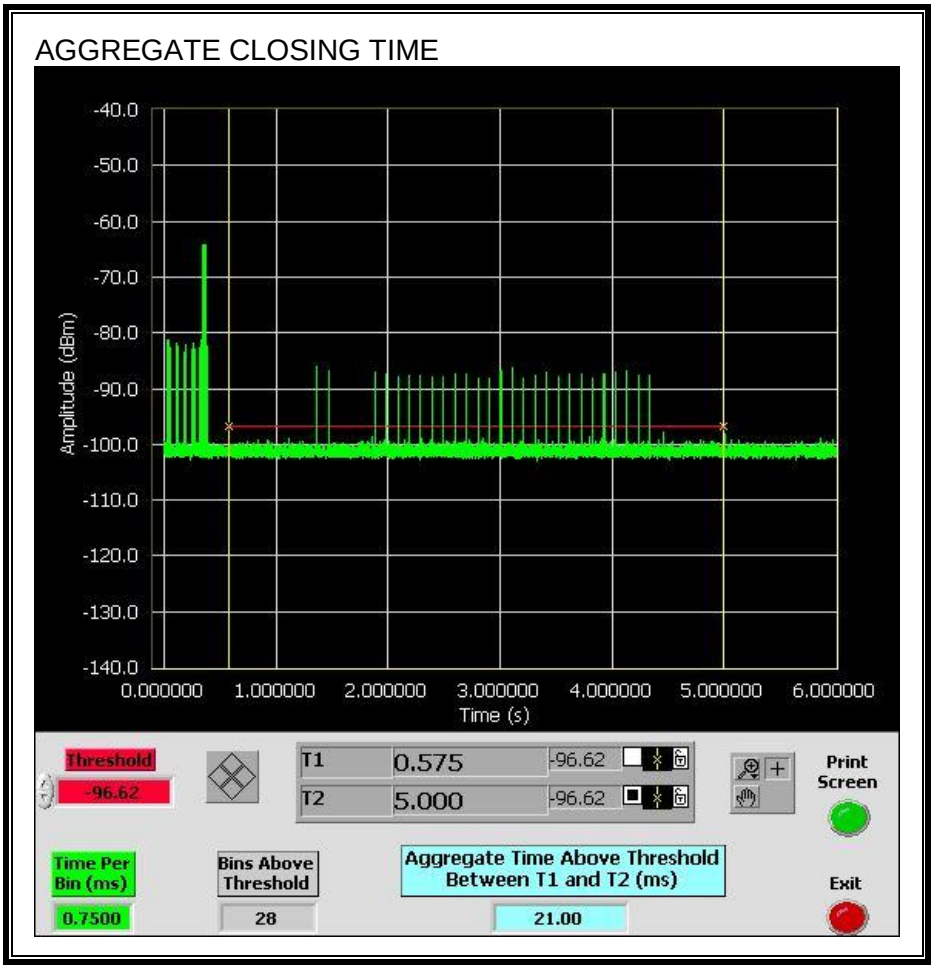
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



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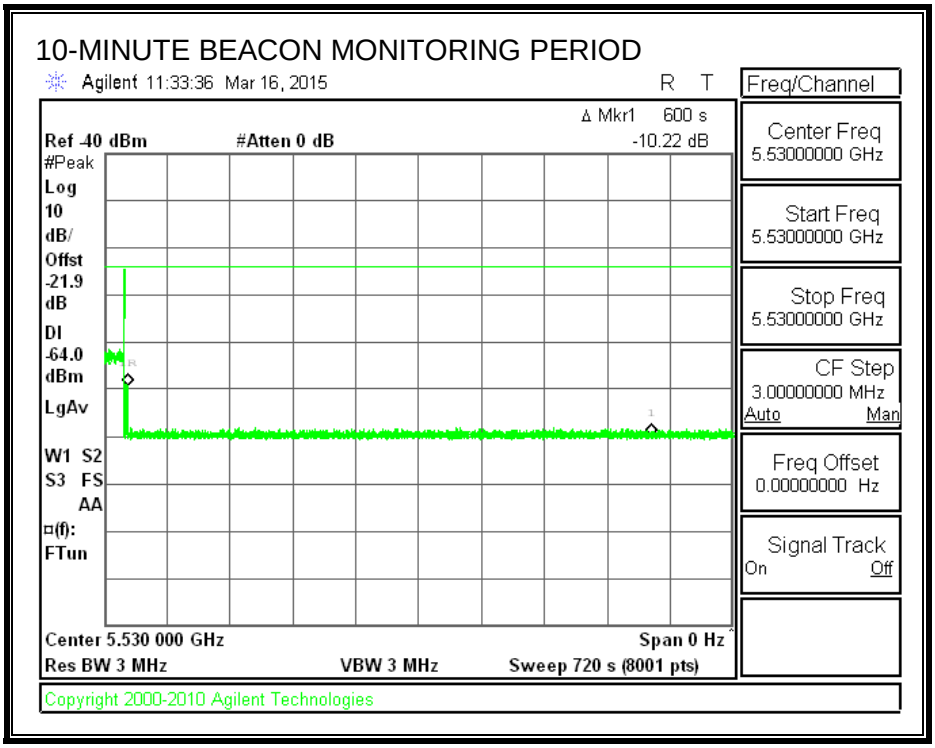
11.4.5. 10-MINUTE BEACON MONITORING PERIOD

RESULTS

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



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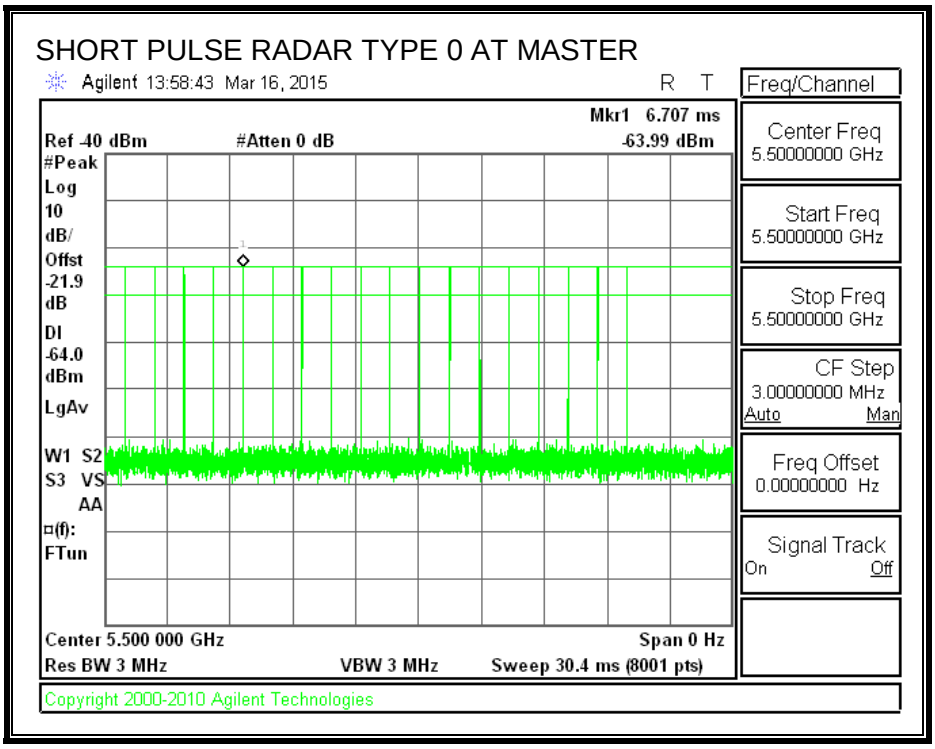
11.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

11.5.1. TEST CHANNEL

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

11.5.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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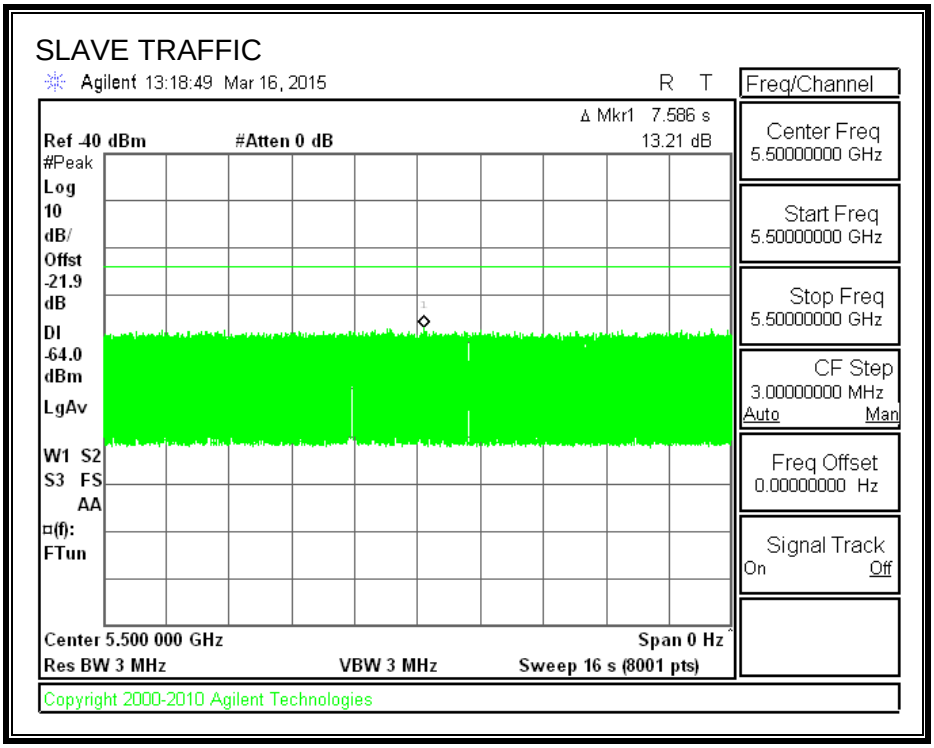
TRAFFIC



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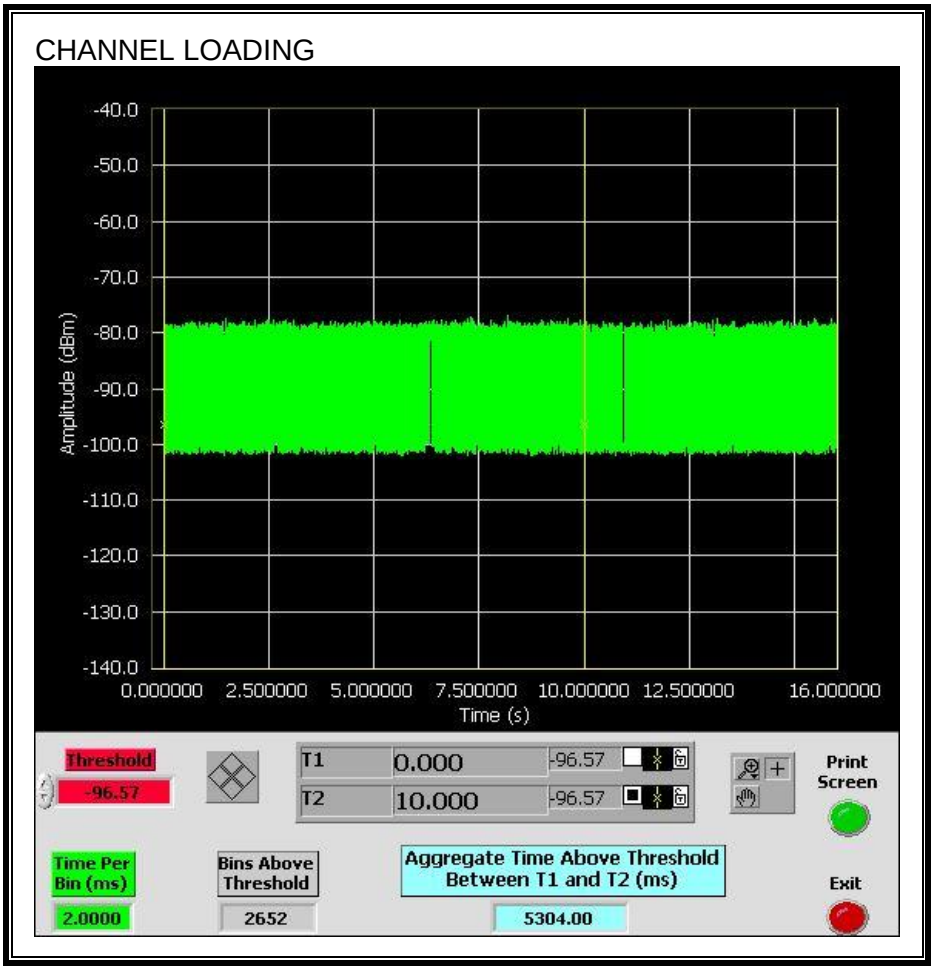
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 53.04%

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11.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.5.4. 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)
3.909	**10**

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
24.75	**60**

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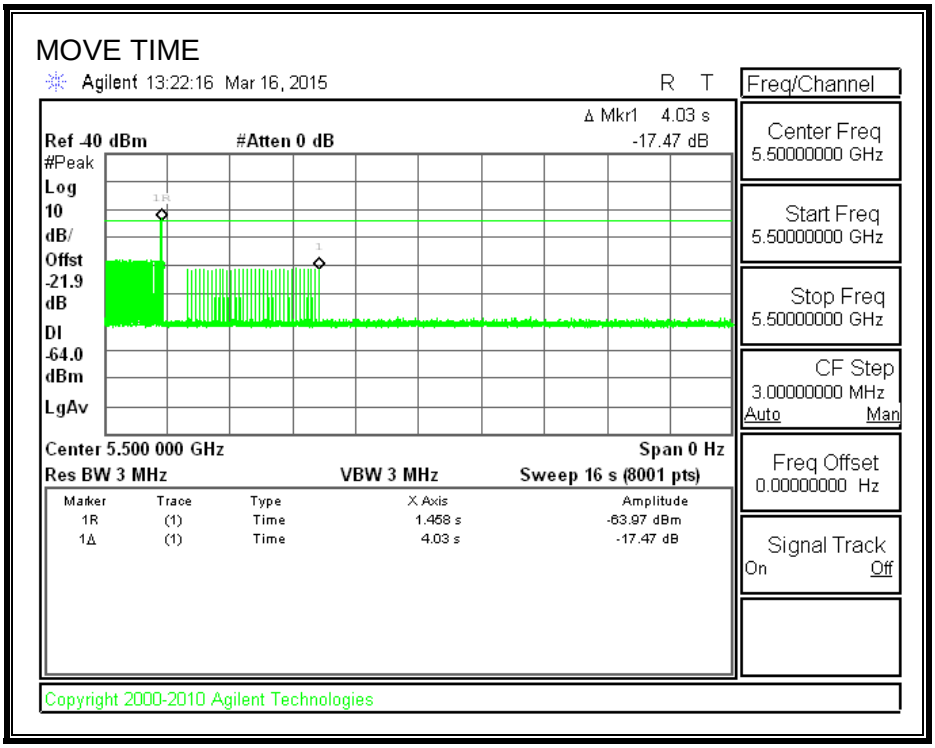
MOVE TIME

16 SECOND SWEEP:



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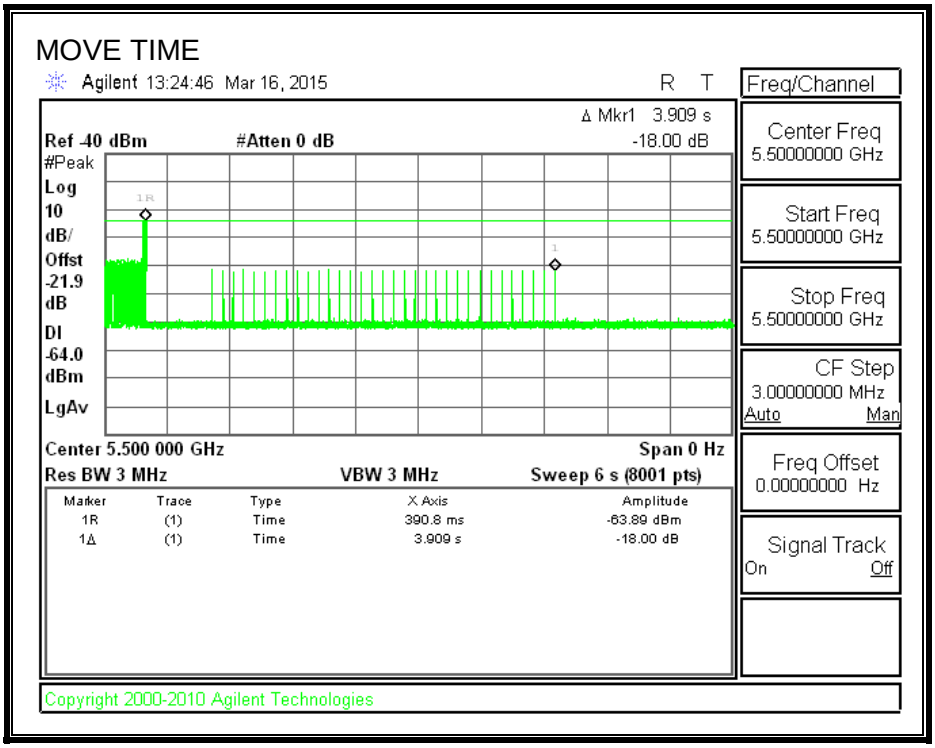
6 SECOND SWEEP:



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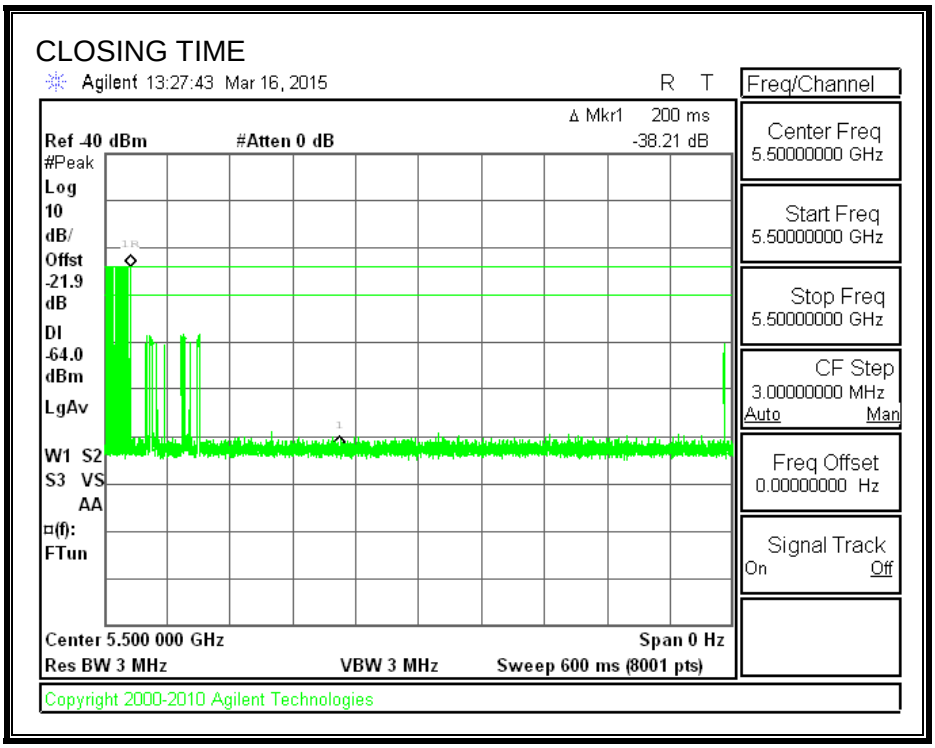
CHANNEL CLOSING TIME



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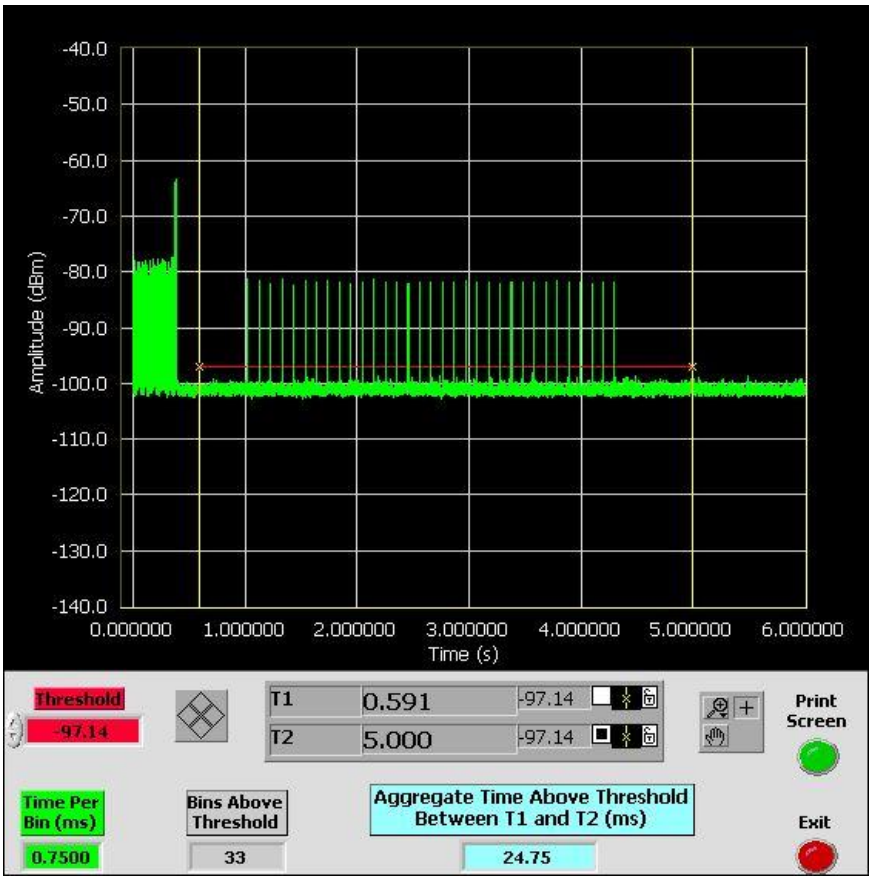
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



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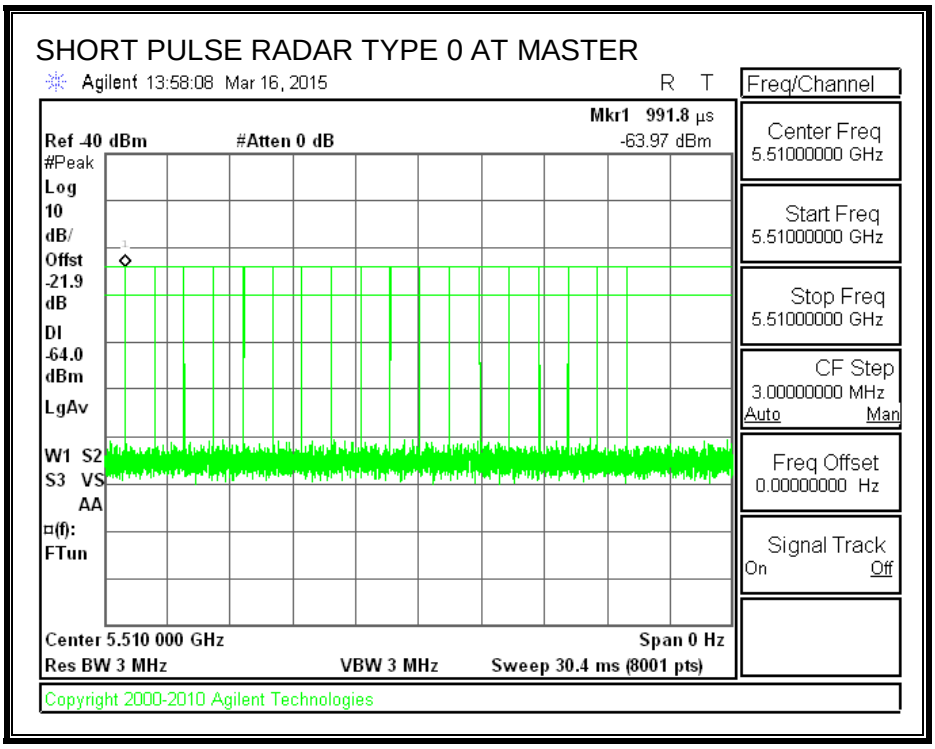
11.6. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

11.6.1. TEST CHANNEL

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

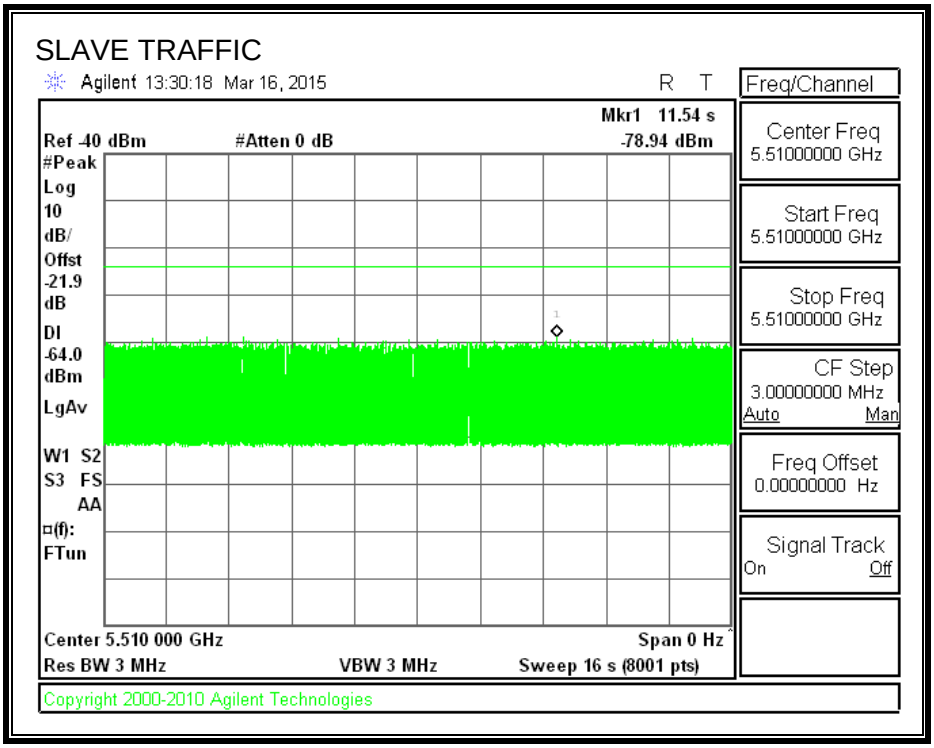
11.6.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

TRAFFIC



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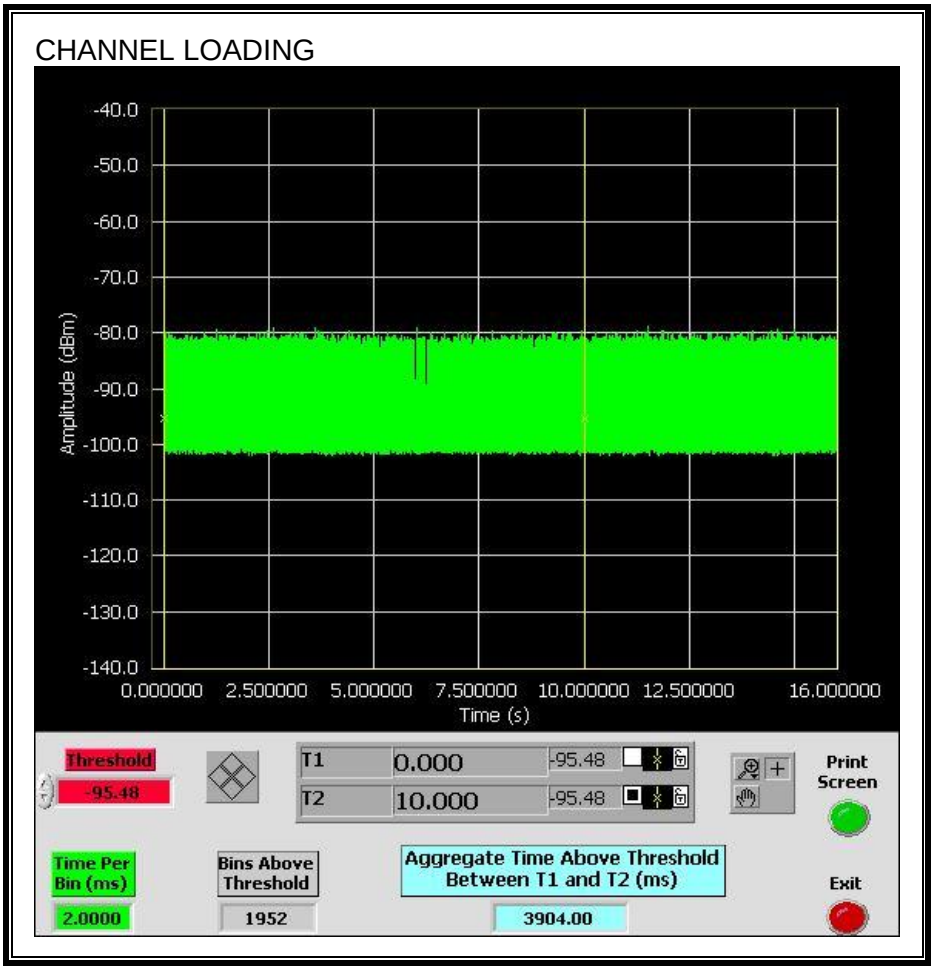
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 39.04%

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11.6.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.6.4. 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)
3.955	**10**

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
28.5	**60**

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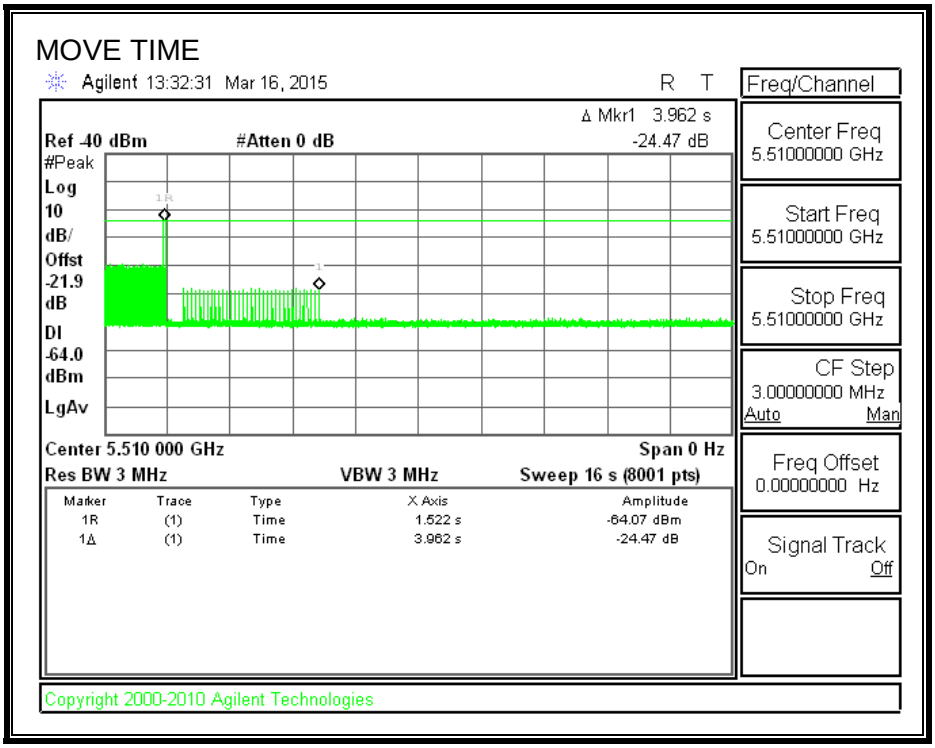
MOVE TIME

16 SECOND SWEEP:



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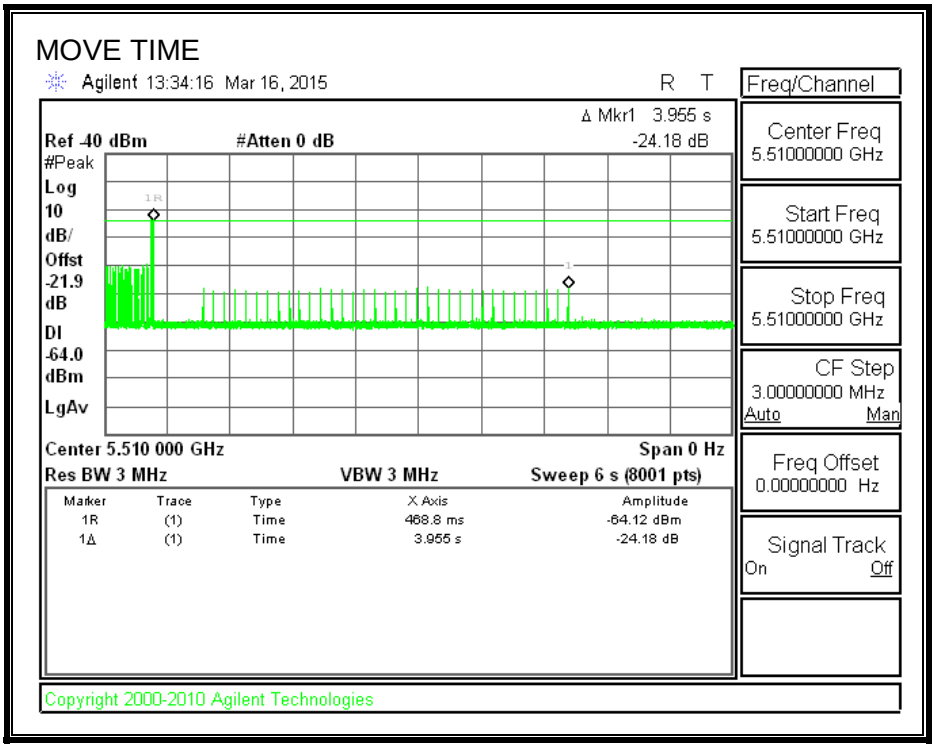
6 SECOND SWEEP:



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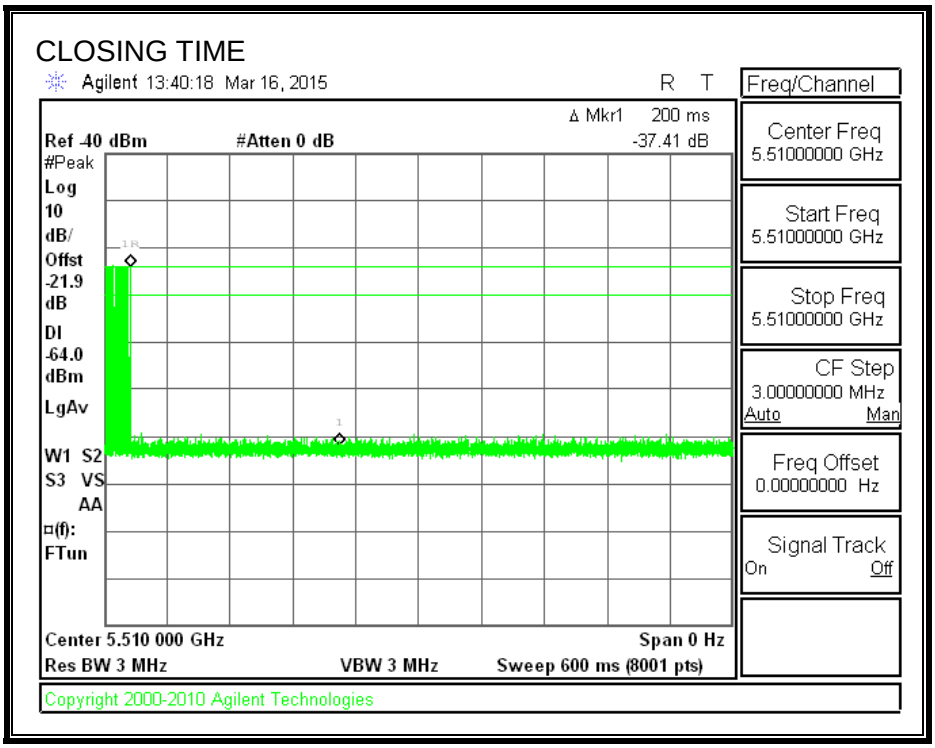
CHANNEL CLOSING TIME



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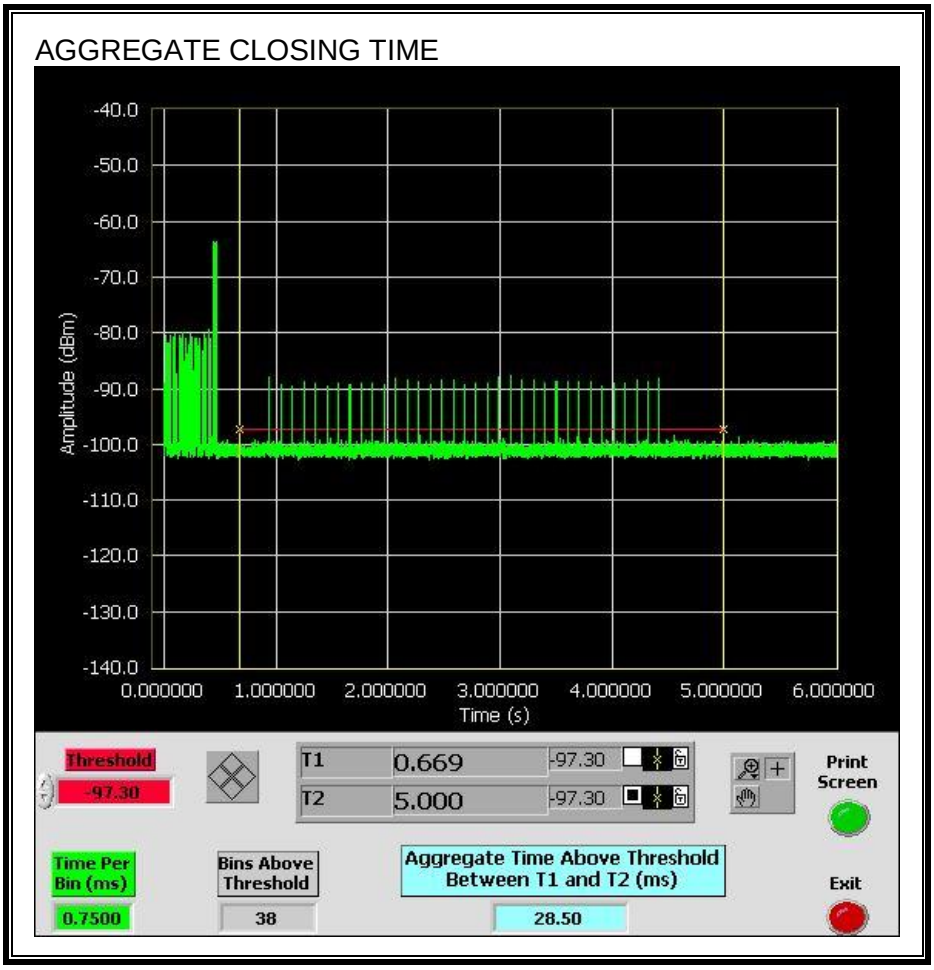
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



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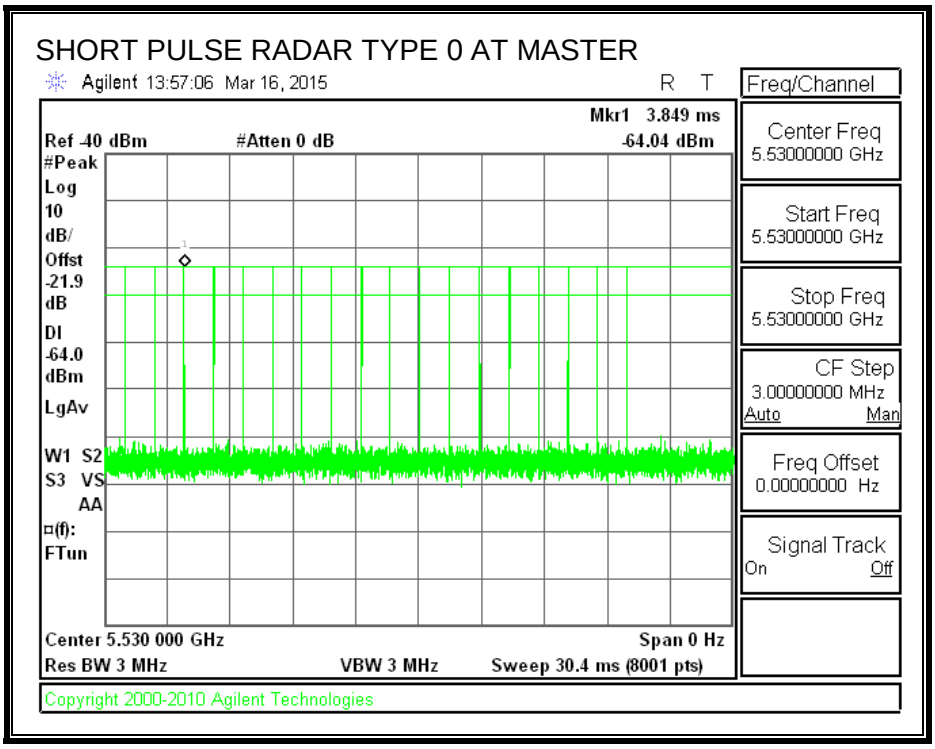
11.7. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 MHz BANDWIDTH

11.7.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

11.7.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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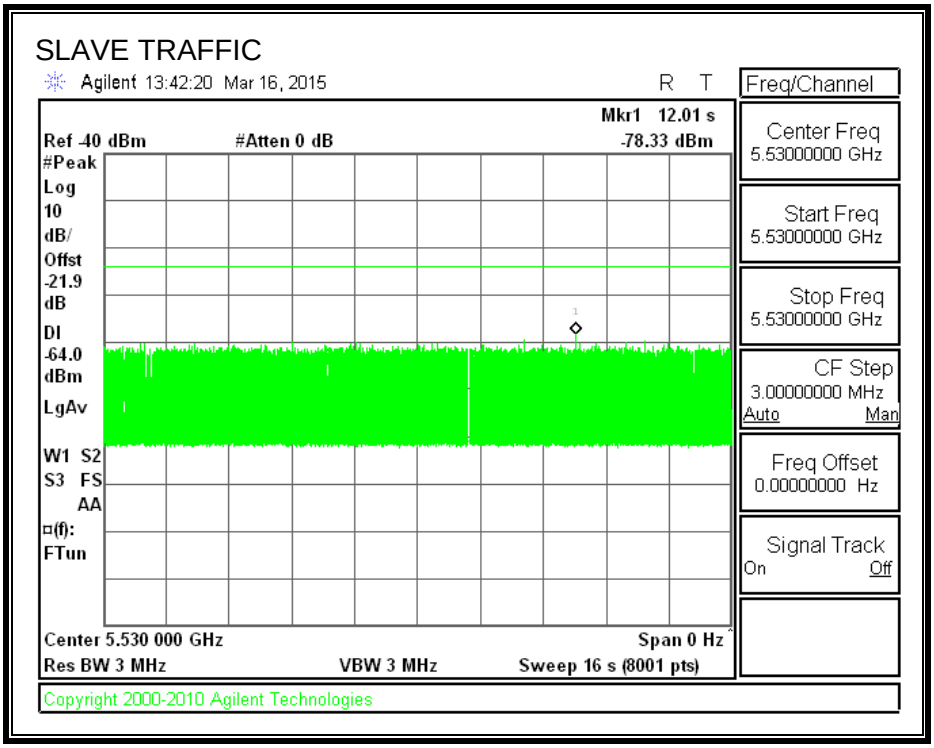
TRAFFIC



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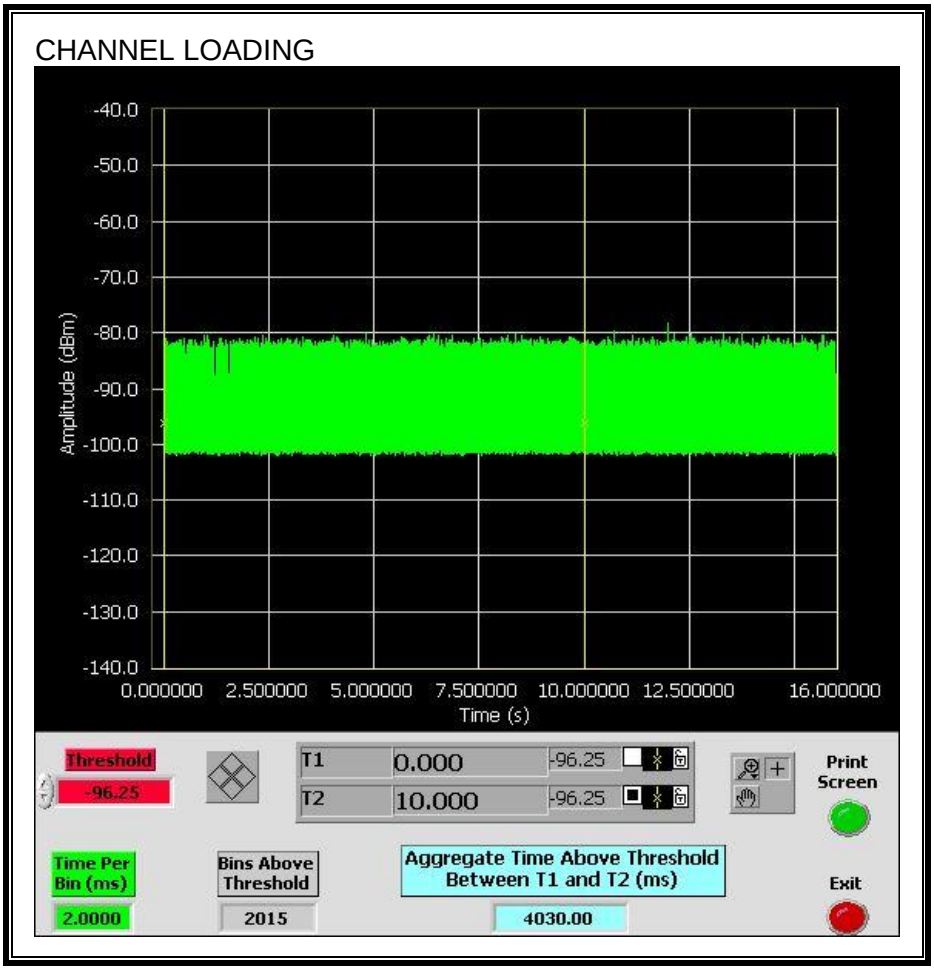
CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 40.3%

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11.7.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.7.4. 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)
0.585	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.75	60

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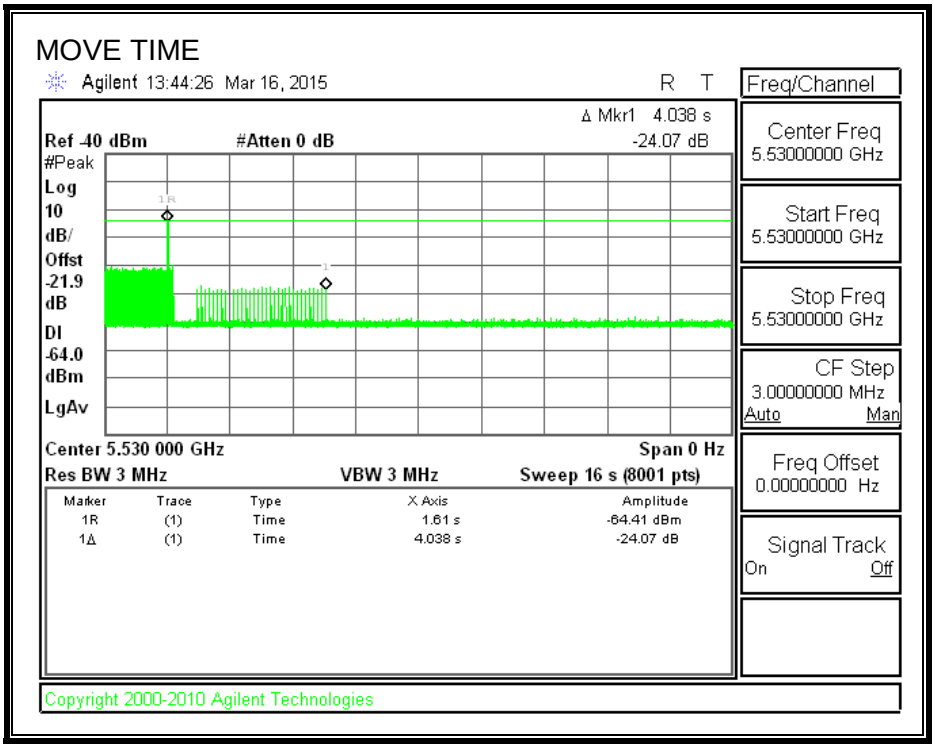
MOVE TIME

16 SECOND SWEEP:



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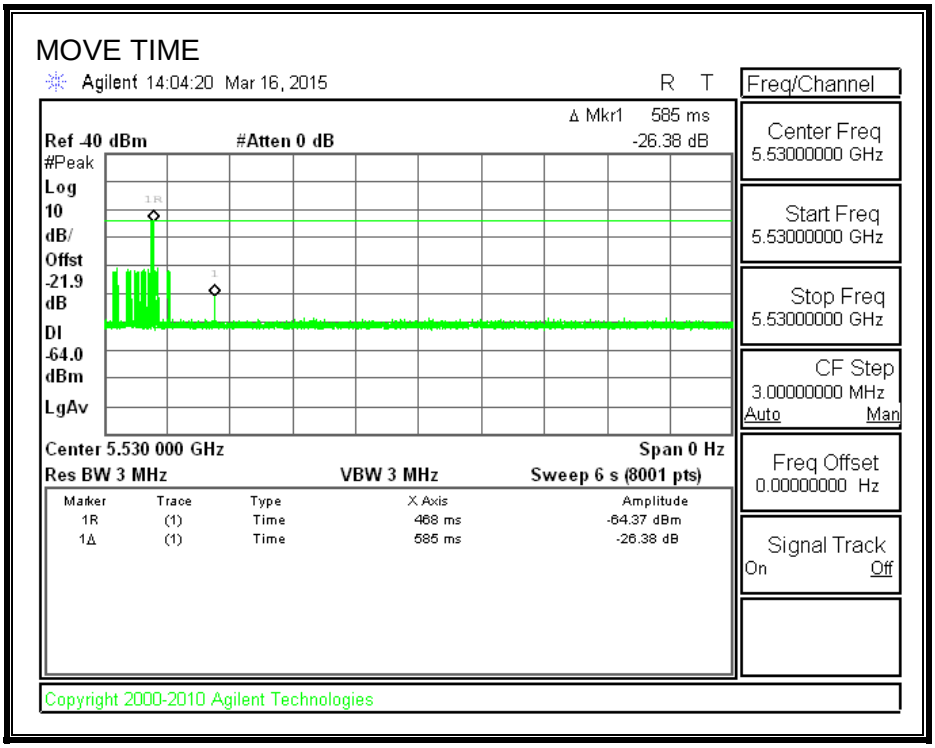
6 SECOND SWEEP:



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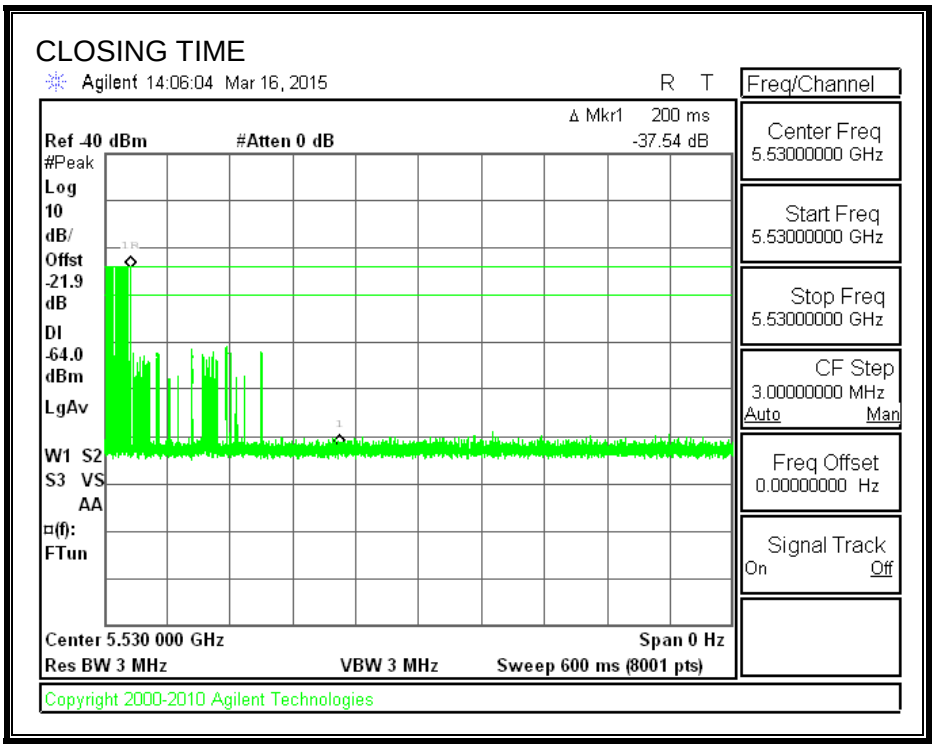
CHANNEL CLOSING TIME



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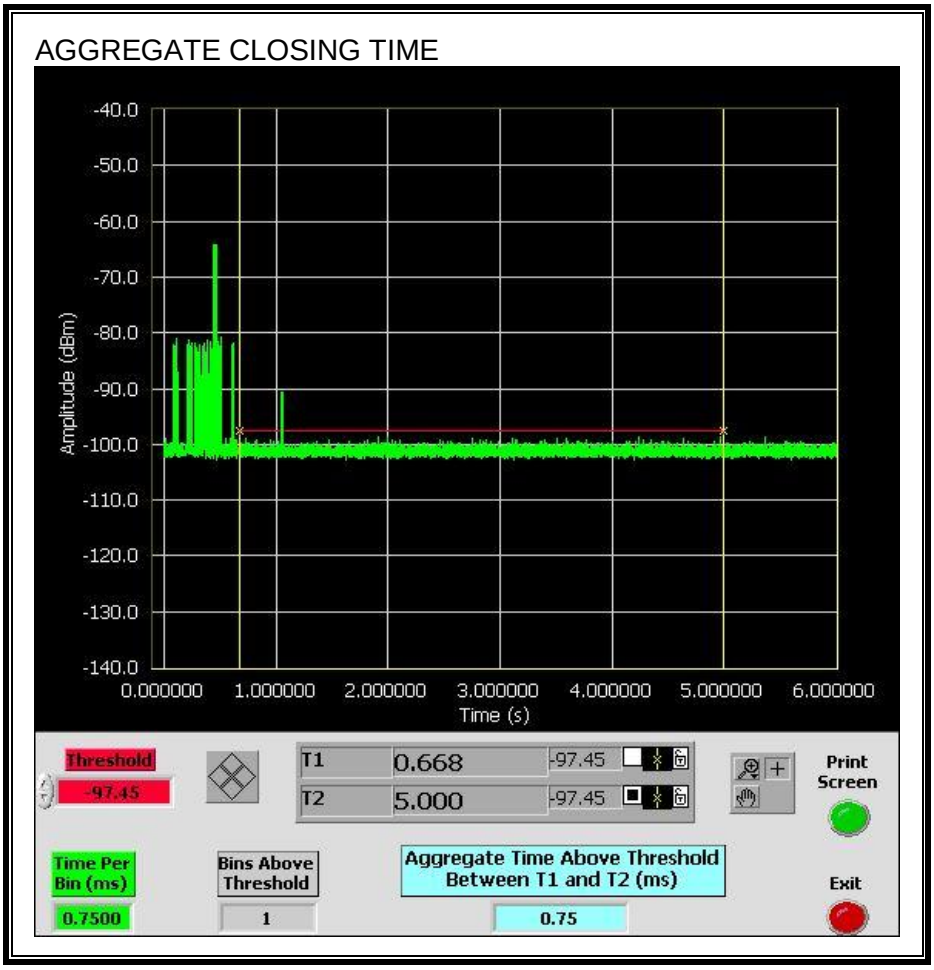
AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



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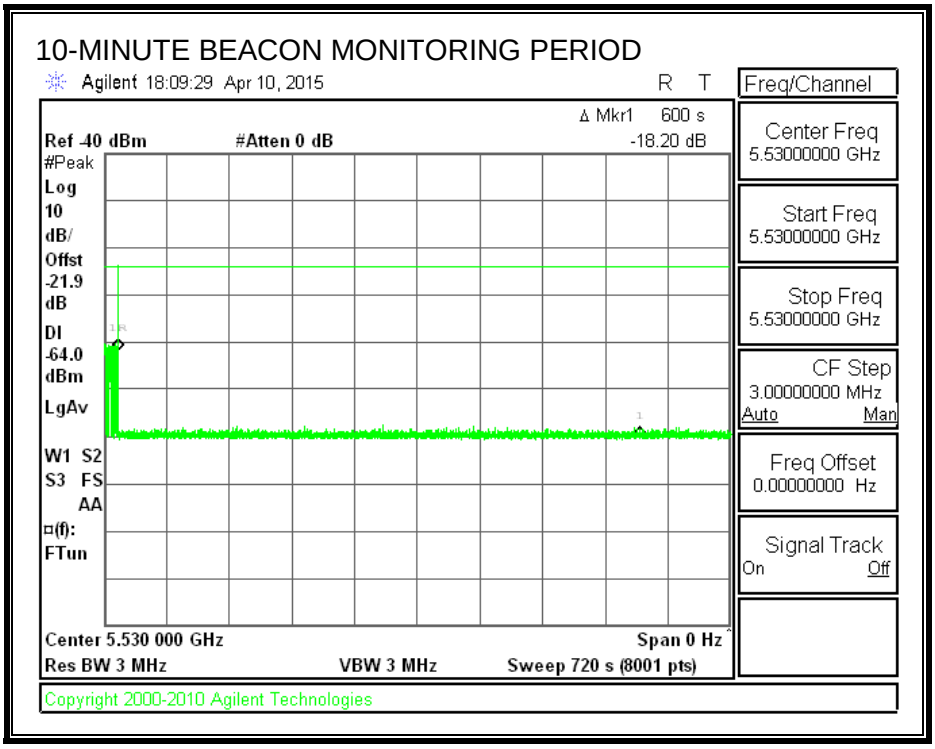
11.7.5. 10-MINUTE BEACON MONITORING PERIOD

RESULTS

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



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