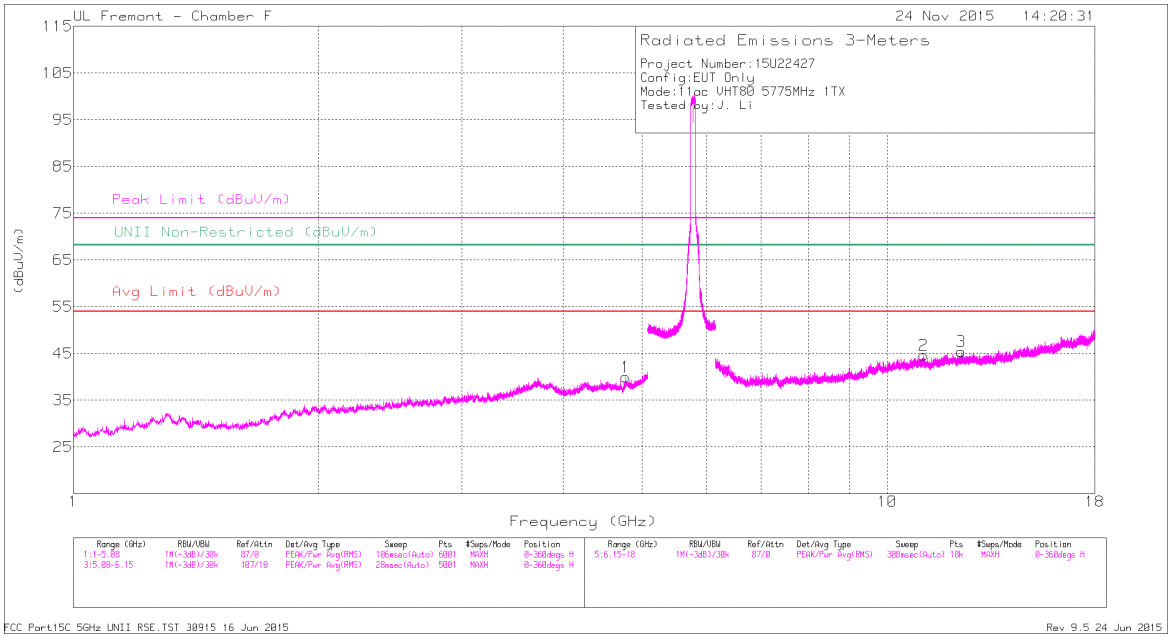
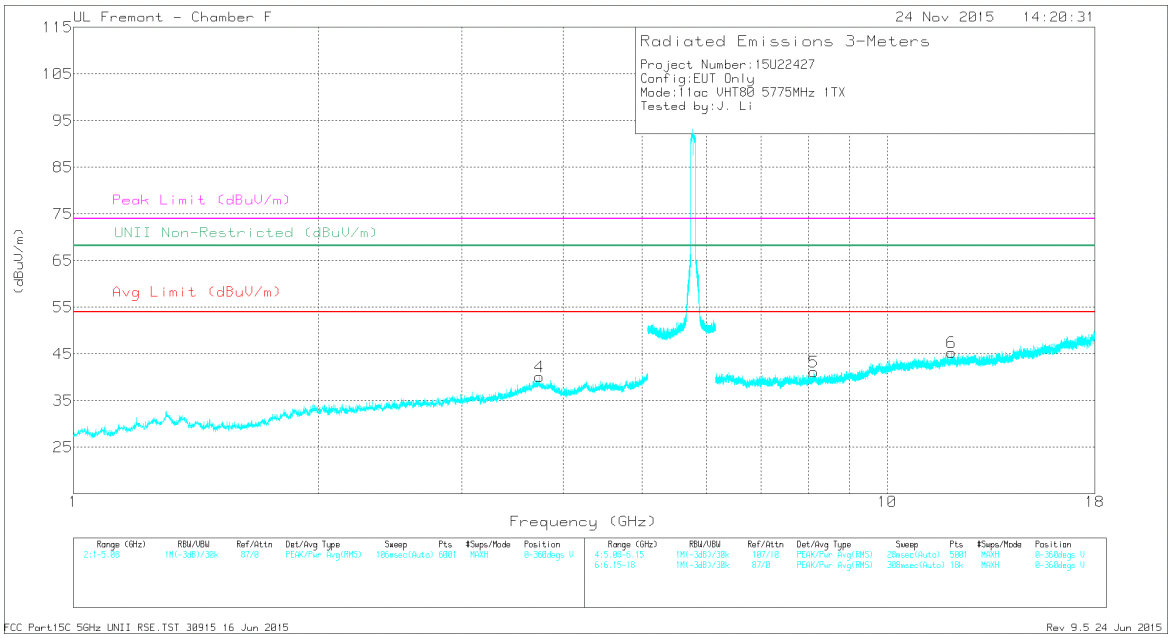
CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



DATA

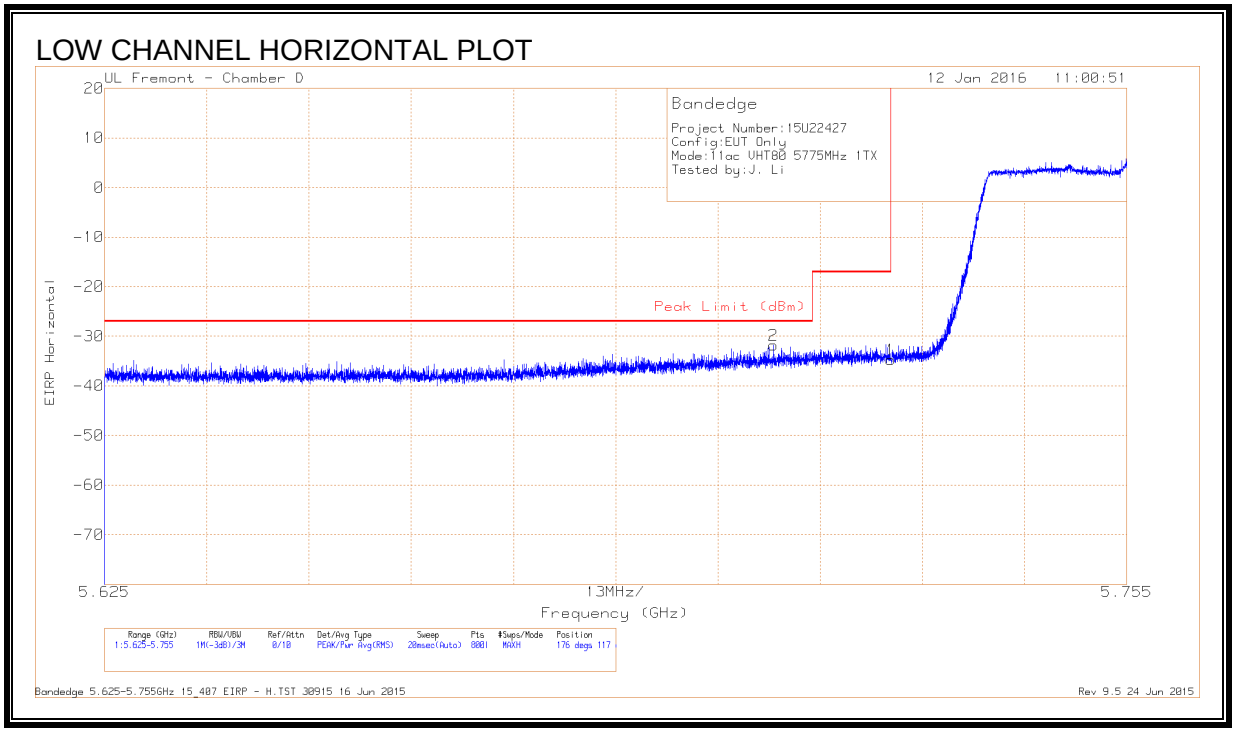
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.773	39.05	PK-U	34.1	-27.6	0	45.55	-	-	74	-28.45	-	-	215	147	H
	* 4.775	27.77	ADR	34.1	-27.6	.16	34.42	54	-19.58	-	-	-	-	215	147	H
4	* 3.739	38.62	PK-U	34.5	-29.2	0	43.92	-	-	74	-30.08	-	-	74	213	V
	* 3.741	27.6	ADR	34.5	-29.3	.16	32.95	54	-21.05	-	-	-	-	74	213	V
2	* 11.08	34.05	PK-U	38.1	-21.9	0	50.25	-	-	74	-23.75	-	-	329	187	H
	* 11.08	22.99	ADR	38.1	-21.9	.16	39.34	54	-14.66	-	-	-	-	329	187	H
3	* 12.338	34.61	PK-U	39	-22.9	0	50.71	-	-	74	-23.29	-	-	244	138	H
	* 12.337	23.86	ADR	39	-22.9	.16	40.11	54	-13.89	-	-	-	-	244	138	H
5	* 8.127	36.3	PK-U	35.8	-24.6	0	47.5	-	-	74	-26.5	-	-	52	243	V
	* 8.128	25.12	ADR	35.8	-24.6	.16	36.47	54	-17.53	-	-	-	-	52	243	V
6	* 12.004	34.82	PK-U	39.1	-23	0	50.92	-	-	74	-23.08	-	-	188	201	V
	* 12.003	23.72	ADR	39.1	-23	.16	39.97	54	-14.03	-	-	-	-	188	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

RESTRICTED BANDEDGE, ANTENNA - A (LOW CHANNEL)

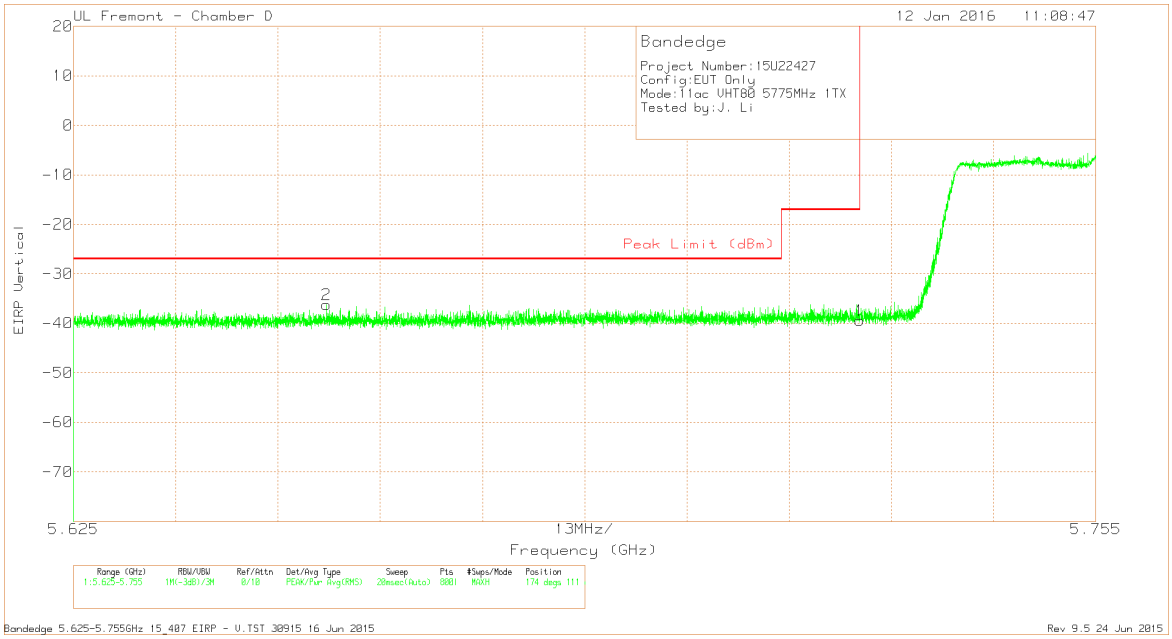


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.71	-60.61	Pk	34.5	-17.5	11.8	-31.81	-27	-4.81	176	117	H
1	5.725	-63.59	Pk	34.6	-17.6	11.8	-34.79	-17	-17.79	176	117	H

Pk - Peak detector

LOW CHANNEL VERTICAL PLOT



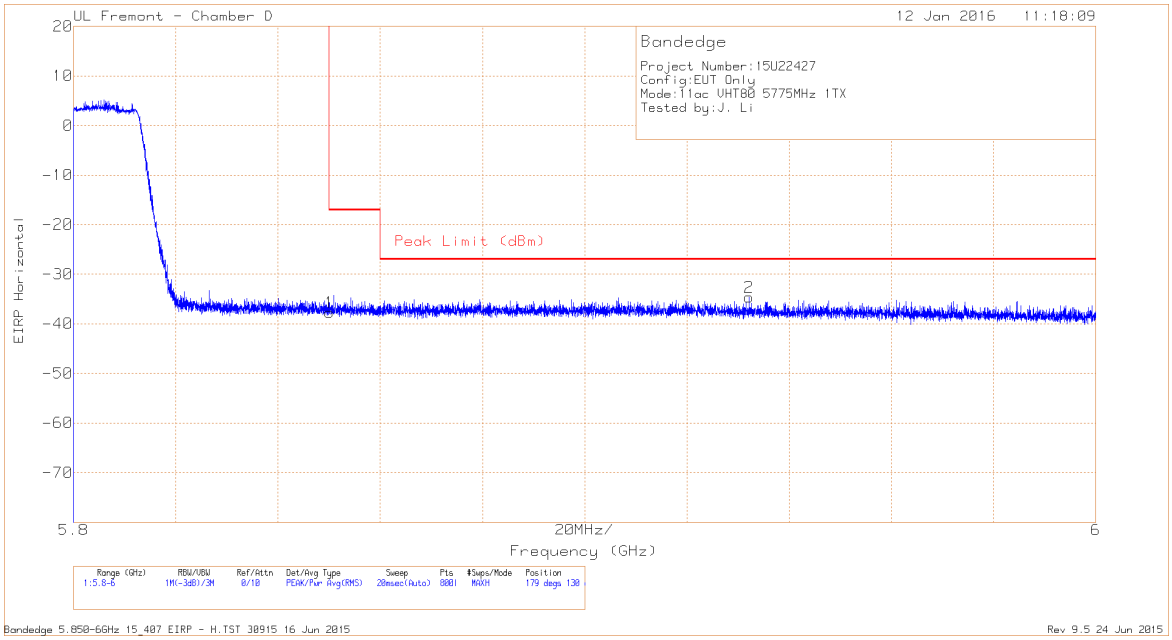
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.657	-65.02	Pk	34.5	-17.5	11.8	-36.22	-27	-9.22	174	111	V
1	5.725	-68.22	Pk	34.6	-17.6	11.8	-39.42	-17	-22.42	174	111	V

Pk - Peak detector

RESTRICTED BANDEDGE, ANTENNA - A (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT

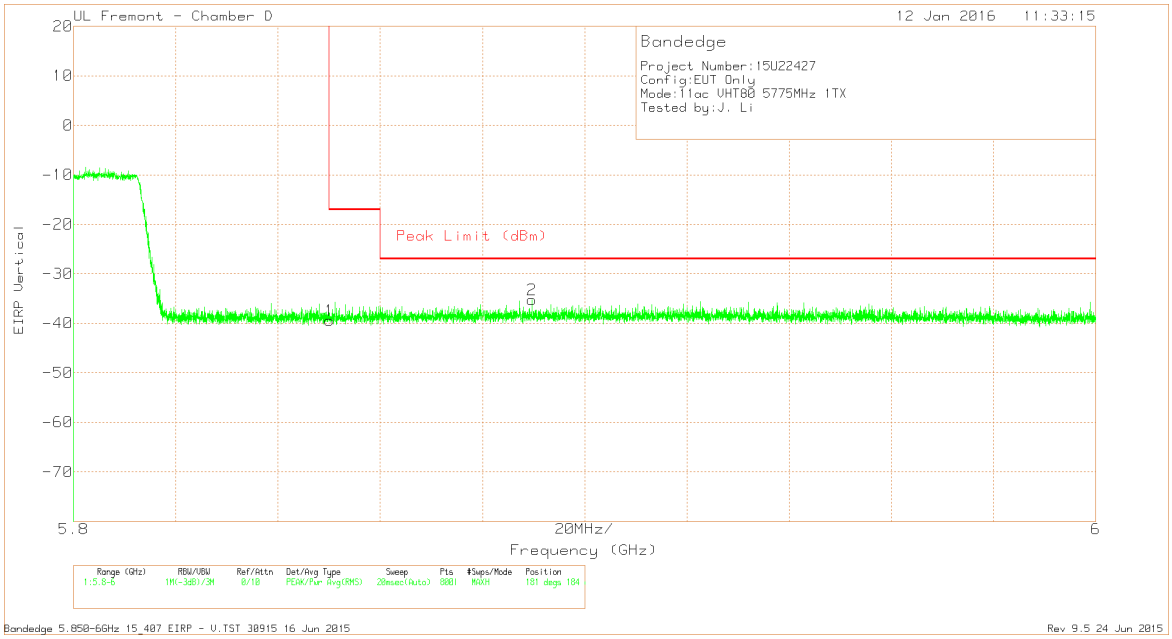


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-66.73	Pk	34.9	-17.7	11.8	-37.73	-17	-20.73	179	130	H
2	5.932	-64.27	Pk	35.2	-17.4	11.8	-34.67	-27	-7.67	179	130	H

Pk - Peak detector

HIGH CHANNEL VERTICAL PLOT



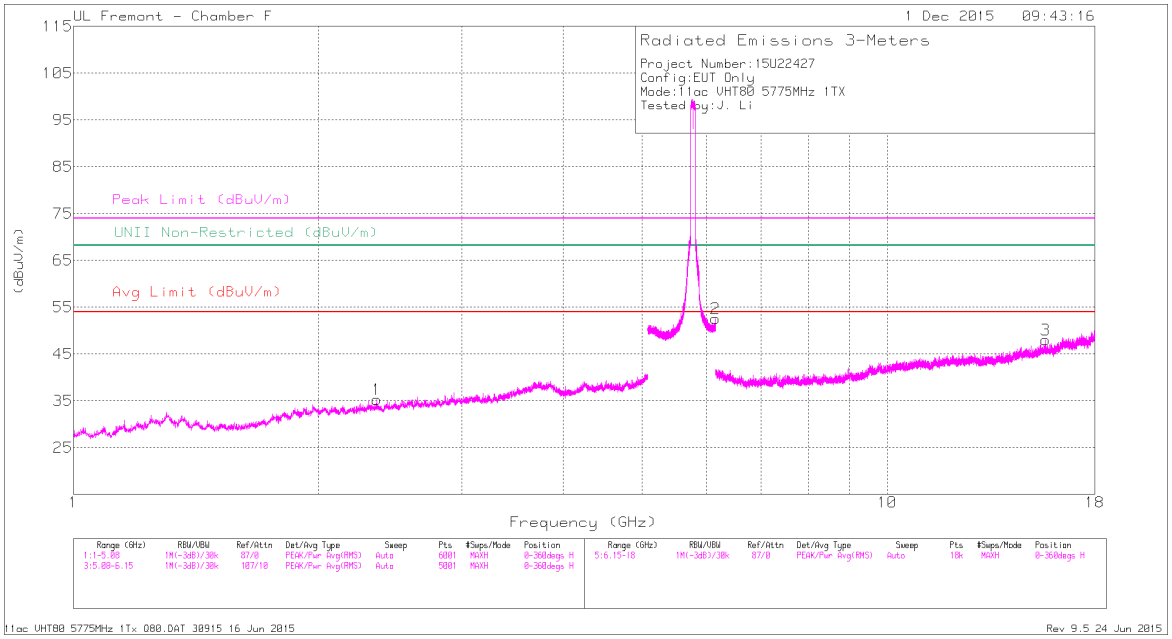
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-68.42	Pk	34.9	-17.7	11.8	-39.42	-17	-22.42	181	184	V
2	5.89	-64.68	Pk	35	-17.4	11.8	-35.28	-27	-8.28	181	184	V

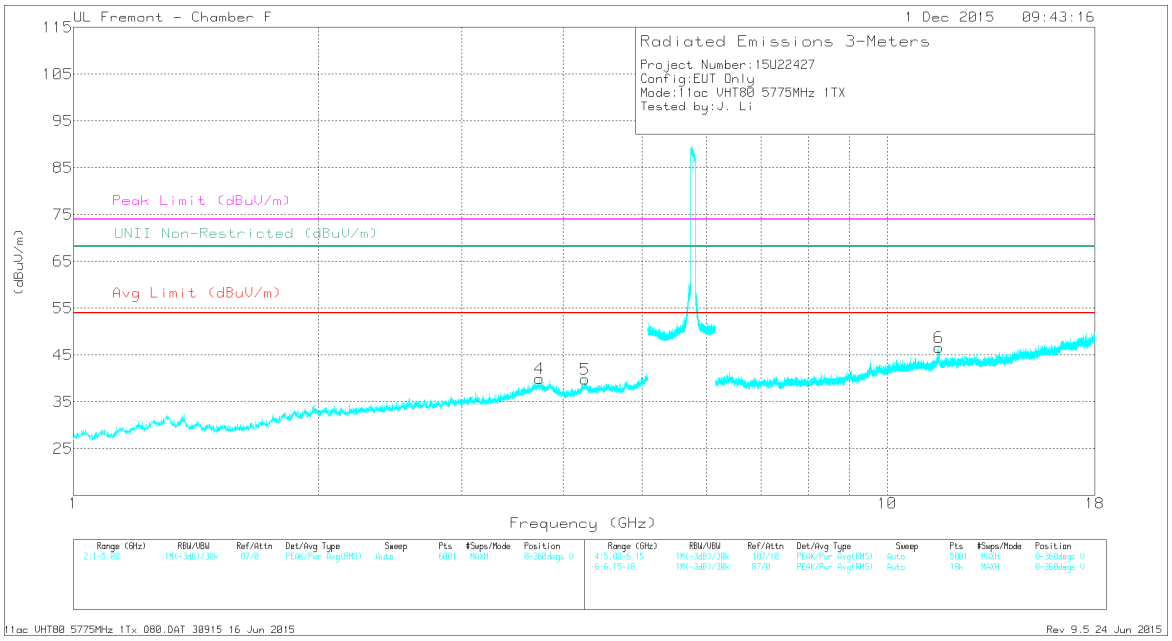
Pk - Peak detector

CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 2.359	40.37	PK-U	31.9	-30.6	0	41.67	-	-	74	-32.33	-	-	278	161	H
	* 2.359	28.89	ADR	31.9	-30.6	.16	30.35	54	-23.65	-	-	-	-	278	161	H
4	* 3.74	39.18	PK-U	34.5	-29.2	0	44.48	-	-	74	-29.52	-	-	340	134	V
	* 3.742	27.77	ADR	34.5	-29.3	.16	33.13	54	-20.87	-	-	-	-	340	134	V
5	* 4.249	37.64	PK-U	33.6	-26.6	0	44.64	-	-	74	-29.36	-	-	148	255	V
	* 4.25	26.39	ADR	33.6	-26.5	.16	33.65	54	-20.35	-	-	-	-	148	255	V
2	6.147	40.62	PK-U	35.6	-18	0	58.22	-	-	-	-	68.2	-9.98	37	229	H
3	* 15.65	35.61	PK-U	40.6	-22.5	0	53.71	-	-	74	-20.29	-	-	125	202	H
	* 15.65	24.33	ADR	40.6	-22.5	.16	42.59	54	-11.41	-	-	-	-	125	202	H
6	* 11.567	39.37	PK-U	38.6	-22.8	0	55.17	-	-	74	-18.83	-	-	127	194	V
	* 11.561	27.24	ADR	38.6	-22.8	.16	43.2	54	-10.8	-	-	-	-	127	194	V

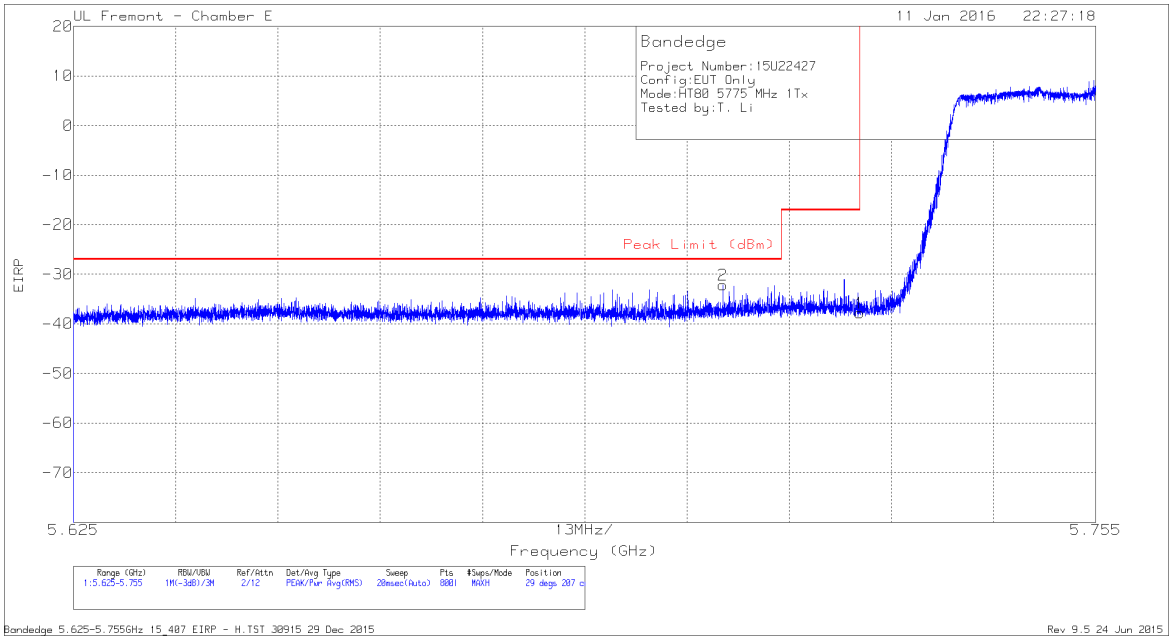
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

RESTRICTED BANDEDGE, ANTENNA - C (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT

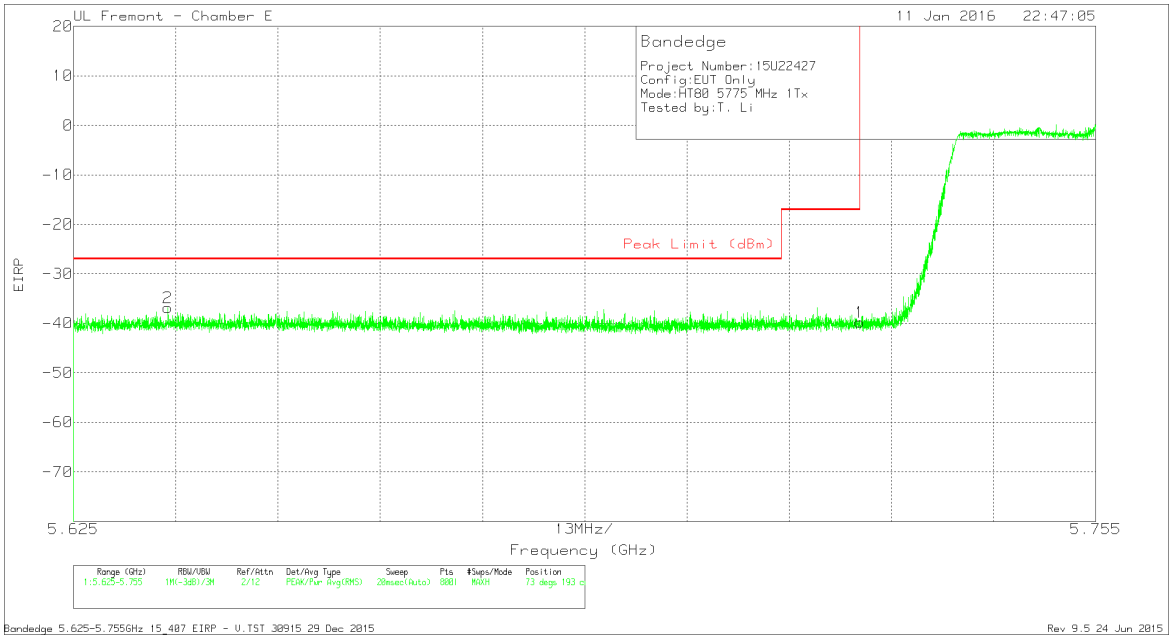


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.708	-58.78	Pk	34.7	-19.9	11.8	-32.18	-27	-5.18	29	207	H
1	5.725	-64.46	Pk	34.7	-19.8	11.8	-37.76	-17	-20.76	29	207	H

Pk - Peak detector

LOW CHANNEL VERTICAL PLOT



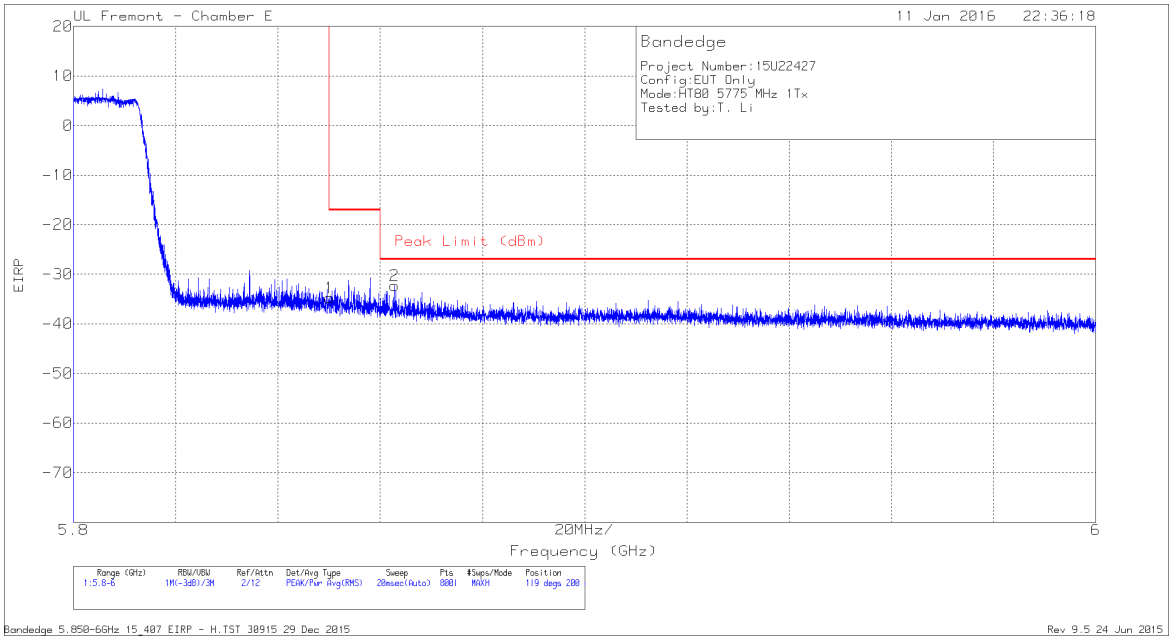
DATA

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
2	5.637	-63.5	Pk	34.6	-19.7	11.8	-36.8	-27	-9.8	73	193	V
1	5.725	-66.5	Pk	34.7	-19.8	11.8	-39.8	-17	-22.8	73	193	V

Pk - Peak detector

RESTRICTED BANDEDGE, ANTENNA - C (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT

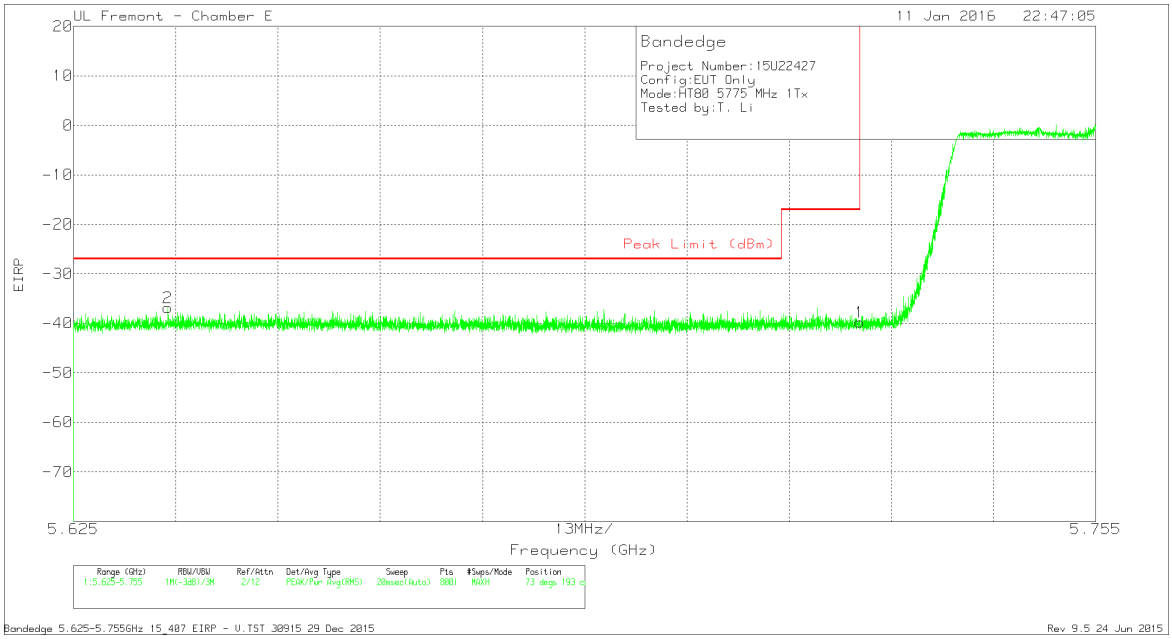


DATA

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	-61.44	Pk	34.9	-20	11.8	-34.74	-17	-17.74	119	200	H
2	5.863	-59.23	Pk	34.9	-19.8	11.8	-32.33	-27	-5.33	119	200	H

Pk - Peak detector

HIGH CHANNEL VERTICAL PLOT



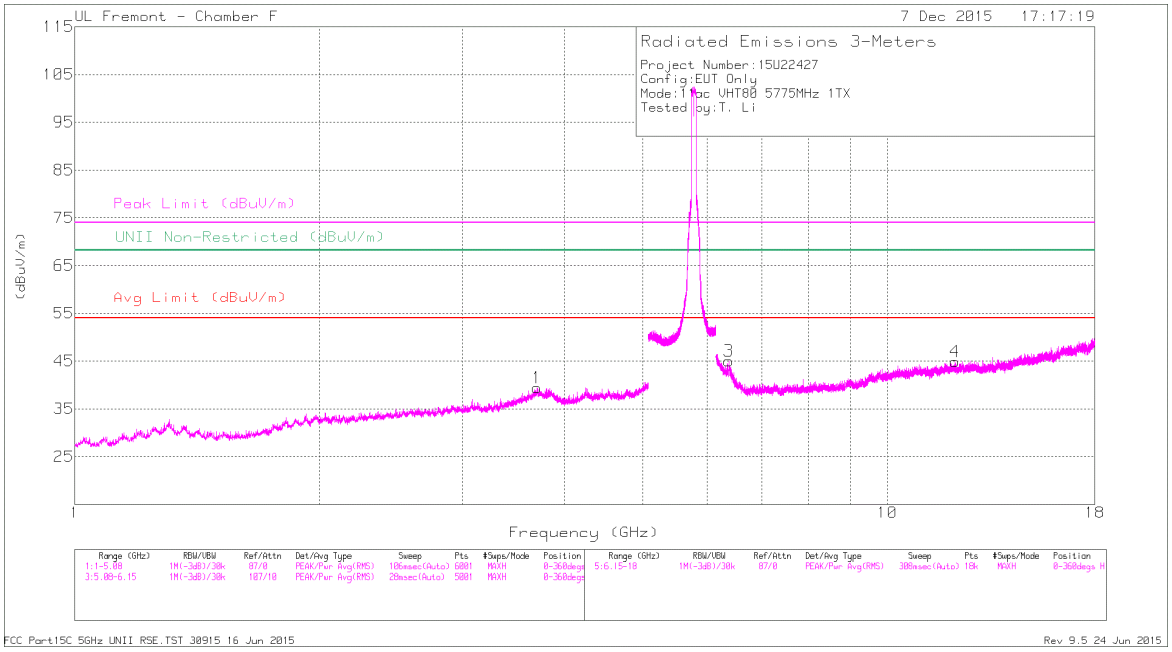
DATA

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
2	5.637	-63.5	Pk	34.6	-19.7	11.8	-36.8	-27	-9.8	73	193	V
1	5.725	-66.5	Pk	34.7	-19.8	11.8	-39.8	-17	-22.8	73	193	V

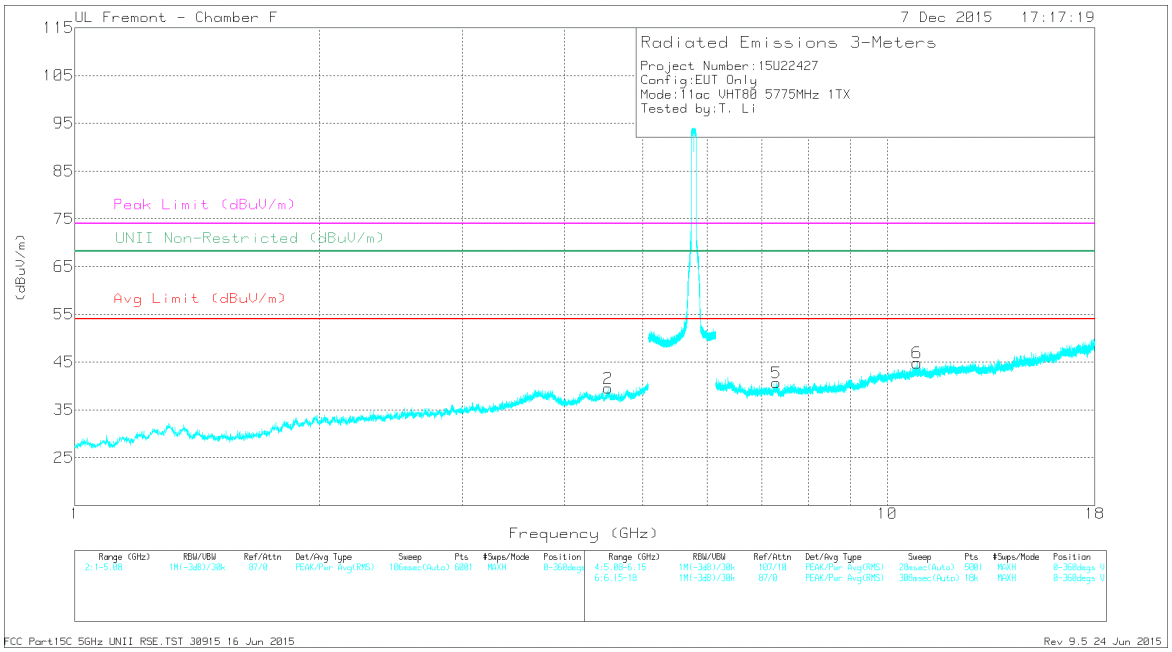
Pk - Peak detector

CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 3.704	38.85	PK-U	34.7	-29.1	0	44.45	-	-	74	-29.55	-	-	205	169	H
	* 3.706	27.41	ADR	34.7	-29.1	.16	33.17	54	-20.83	-	-	-	-	205	169	H
2	* 4.531	38.21	PK-U	33.9	-27.9	0	44.21	-	-	74	-29.79	-	-	78	341	V
	* 4.531	27.02	ADR	33.9	-27.9	.16	33.18	54	-20.82	-	-	-	-	78	341	V
3	6.379	39.97	PK-U	35.8	-26.6	0	49.17	-	-	-	-	68.2	-19.03	259	351	H
4	* 12.119	34.13	PK-U	39.1	-22.7	0	50.53	-	-	74	-23.47	-	-	213	227	H
	* 12.119	23.26	ADR	39.1	-22.7	.16	39.82	54	-14.18	-	-	-	-	213	227	H
5	* 7.306	37.26	PK-U	35.7	-25.3	0	47.66	-	-	74	-26.34	-	-	173	266	V
	* 7.306	25.82	ADR	35.7	-25.3	.16	36.38	54	-17.62	-	-	-	-	173	266	V
6	* 10.878	33.75	PK-U	38.1	-22.2	0	49.65	-	-	74	-24.35	-	-	209	365	V
	* 10.878	22.42	ADR	38.1	-22.2	.16	38.48	54	-15.52	-	-	-	-	209	365	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

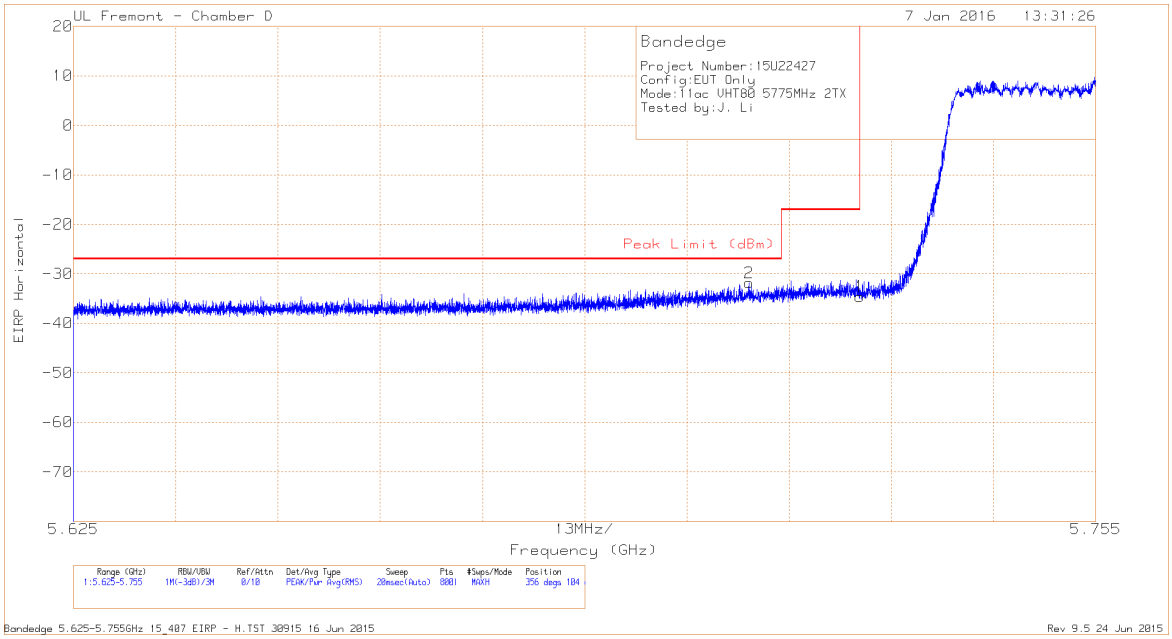
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.25. 802.11ac VHT80 2Tx CDD MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE, ANTENNA B+A (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT

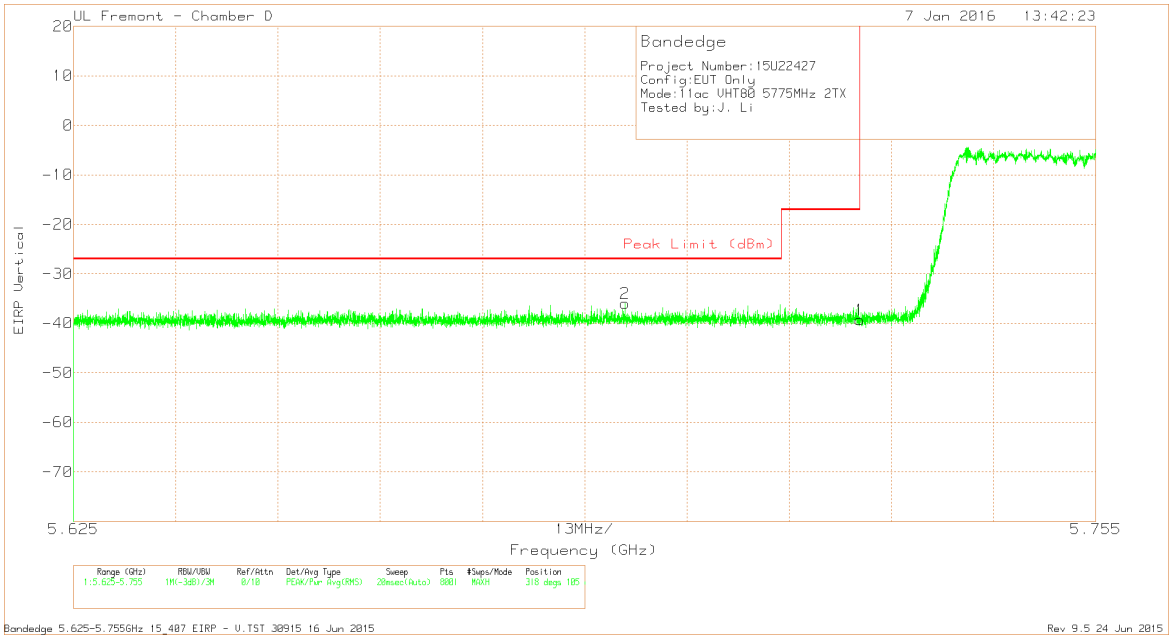


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-60.62	Pk	34.5	-17.5	11.8	-31.82	-27	-4.82	356	104	H
1	5.725	-63.36	Pk	34.6	-17.6	11.8	-34.56	-17	-17.56	356	104	H

Pk - Peak detector

LOW CHANNEL VERTICAL PLOT



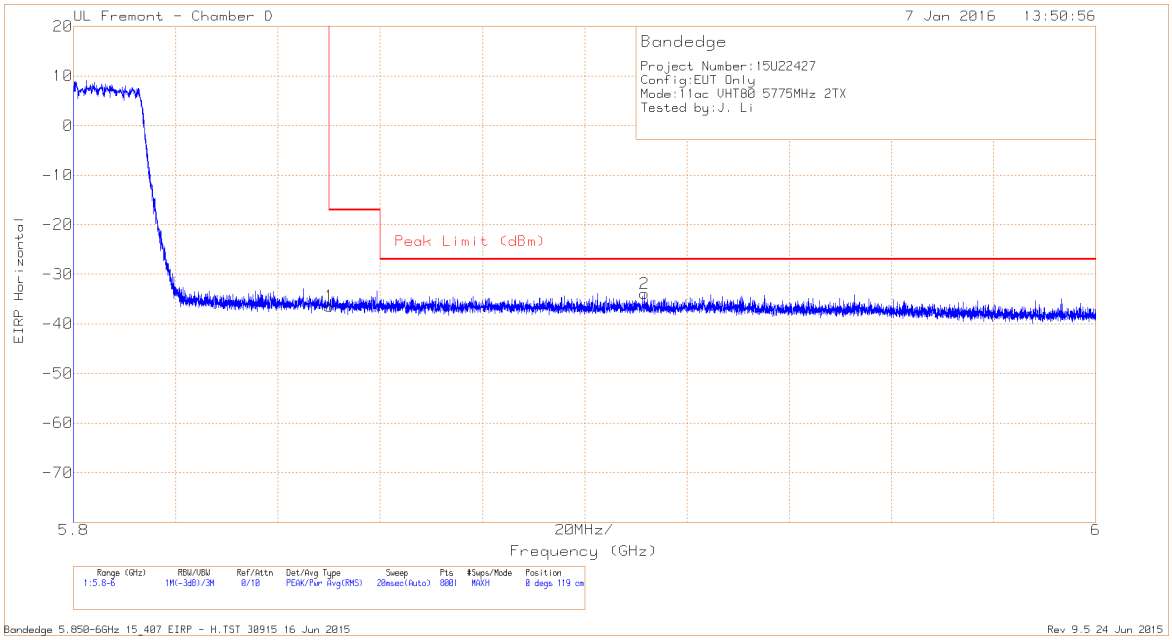
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.695	-64.93	Pk	34.5	-17.3	11.8	-35.93	-27	-8.93	318	105	V
1	5.725	-68.03	Pk	34.6	-17.6	11.8	-39.23	-17	-22.23	318	105	V

Pk - Peak detector

RESTRICTED BANDEDGE, ANTENNA B+A (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT

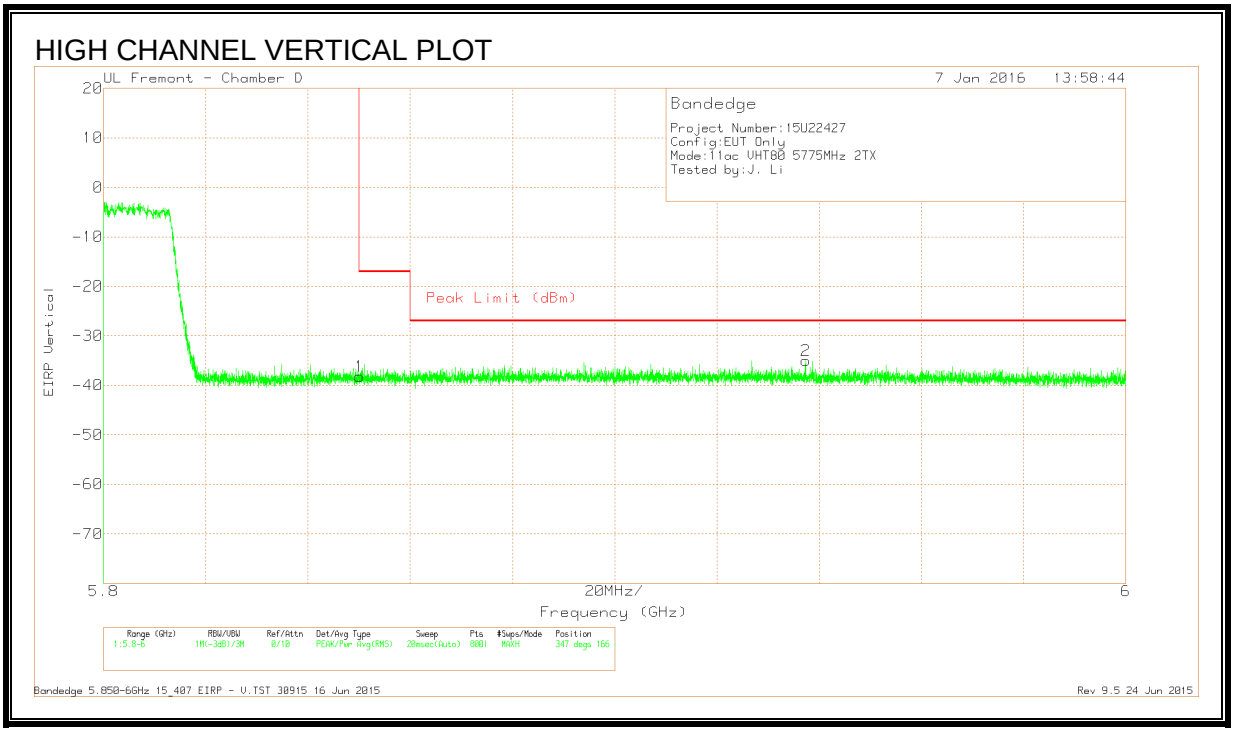


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-65.4	Pk	34.9	-17.7	11.8	-36.4	-17	-19.4	0	119	H
2	5.912	-63.25	Pk	35.1	-17.5	11.8	-33.85	-27	-6.85	0	119	H

Pk - Peak detector

HIGH CHANNEL VERTICAL PLOT



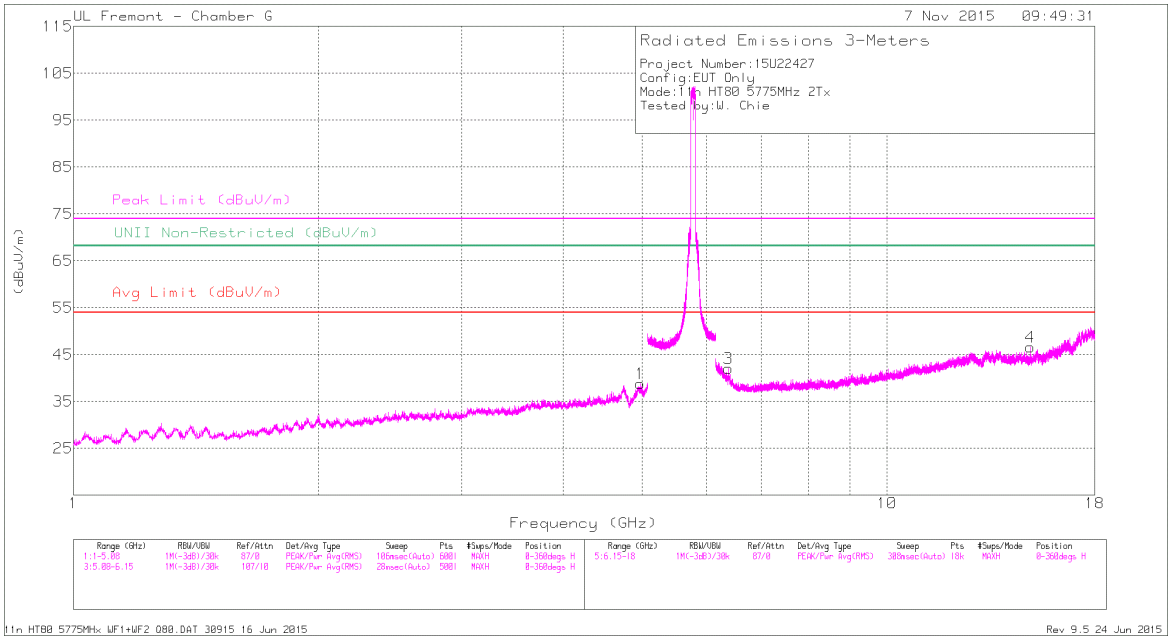
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-67.18	Pk	34.9	-17.7	11.8	-38.18	-17	-21.18	347	166	V
2	5.937	-64.62	Pk	35.2	-17.4	11.8	-35.02	-27	-8.02	347	166	V

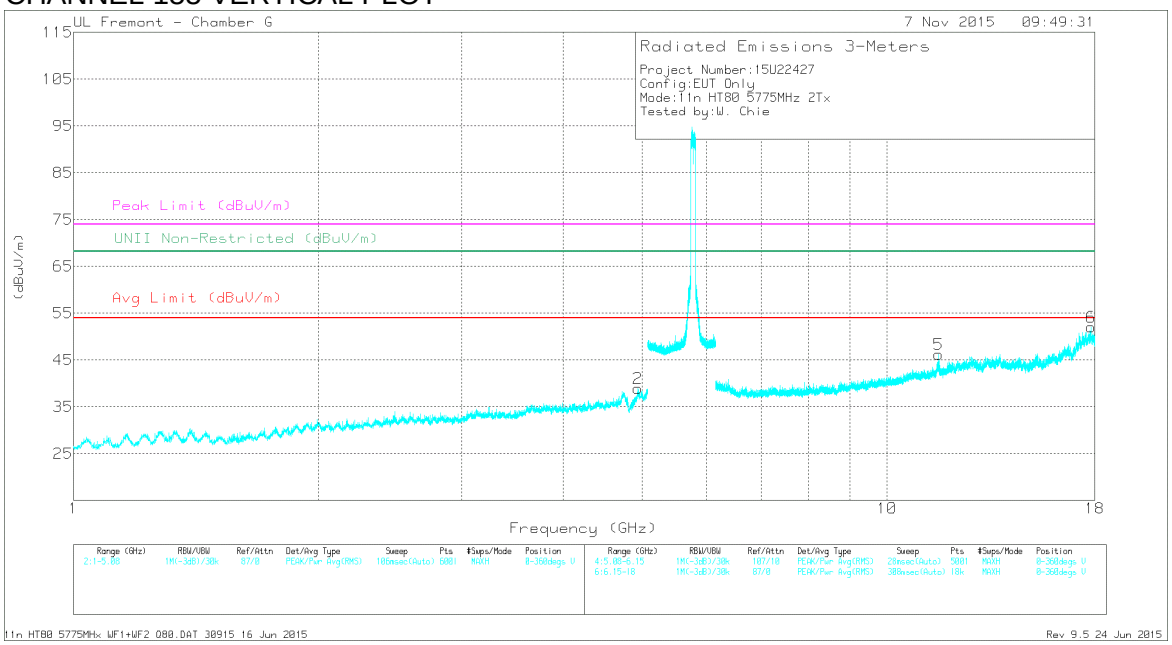
Pk - Peak detector

CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



DATA

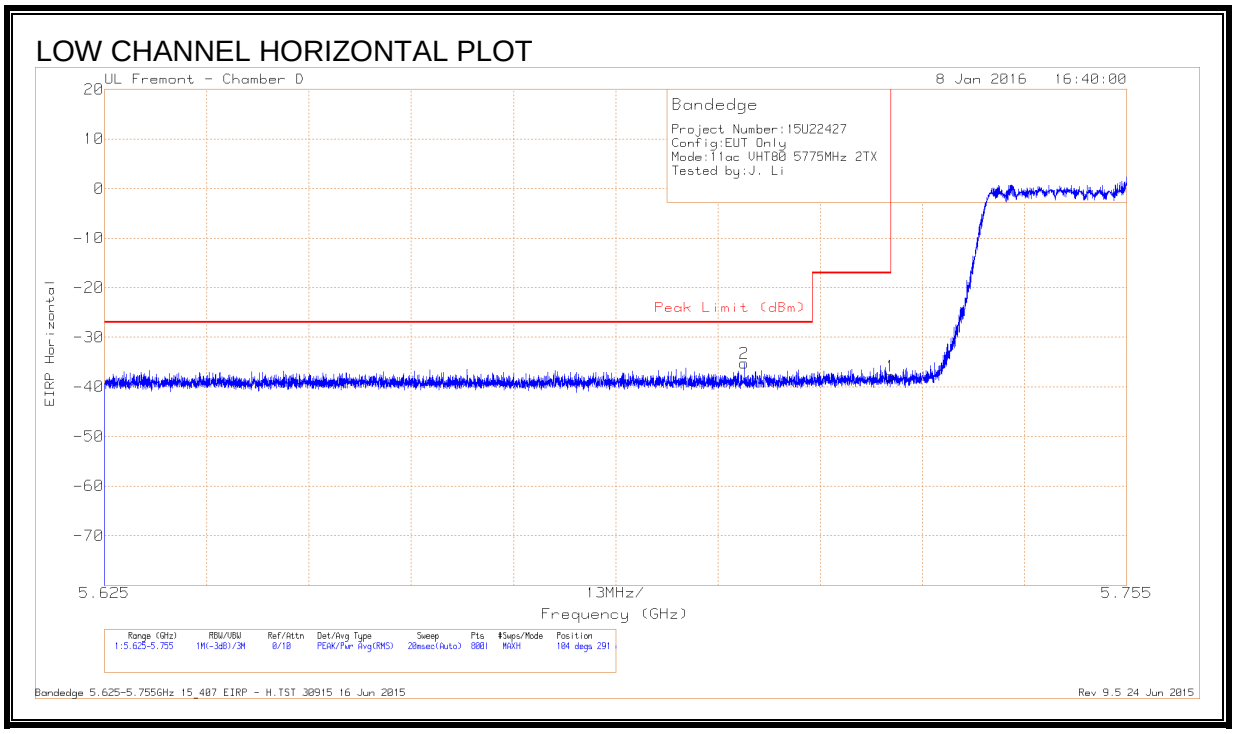
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.973	42.66	PK-U	34.2	-31.4	0	45.46	-	-	74	-28.54	-	-	5	148	H
	* 4.973	31.56	ADR	34.2	-31.4	.2	34.56	54	-19.44	-	-	-	-	5	148	H
2	* 4.941	42.91	PK-U	34.1	-31.2	0	45.81	-	-	74	-28.19	-	-	234	175	V
	* 4.94	30.88	ADR	34.1	-31.2	.2	33.98	54	-20.02	-	-	-	-	234	175	V
5	* 11.572	37.92	PK-U	38.3	-26.3	0	49.92	-	-	74	-24.08	-	-	320	172	V
	* 11.572	27.07	ADR	38.3	-26.2	.2	39.37	54	-14.63	-	-	-	-	320	172	V
6	* 17.815	36.3	PK-U	41.4	-19.6	0	58.1	-	-	74	-15.9	-	-	27	233	V
	* 17.813	24.47	ADR	41.4	-19.6	.2	46.47	54	-7.53	-	-	-	-	27	233	V
3	6.383	42.09	PK-U	35.8	-31.7	0	46.19	-	-	-	-	68.2	-22.01	266	136	H
4	14.989	38.31	PK-U	39.7	-26.3	0	51.71	-	-	-	-	68.2	-16.49	290	221	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

RESTRICTED BANDEDGE, ANTENNA A+C (LOW CHANNEL)

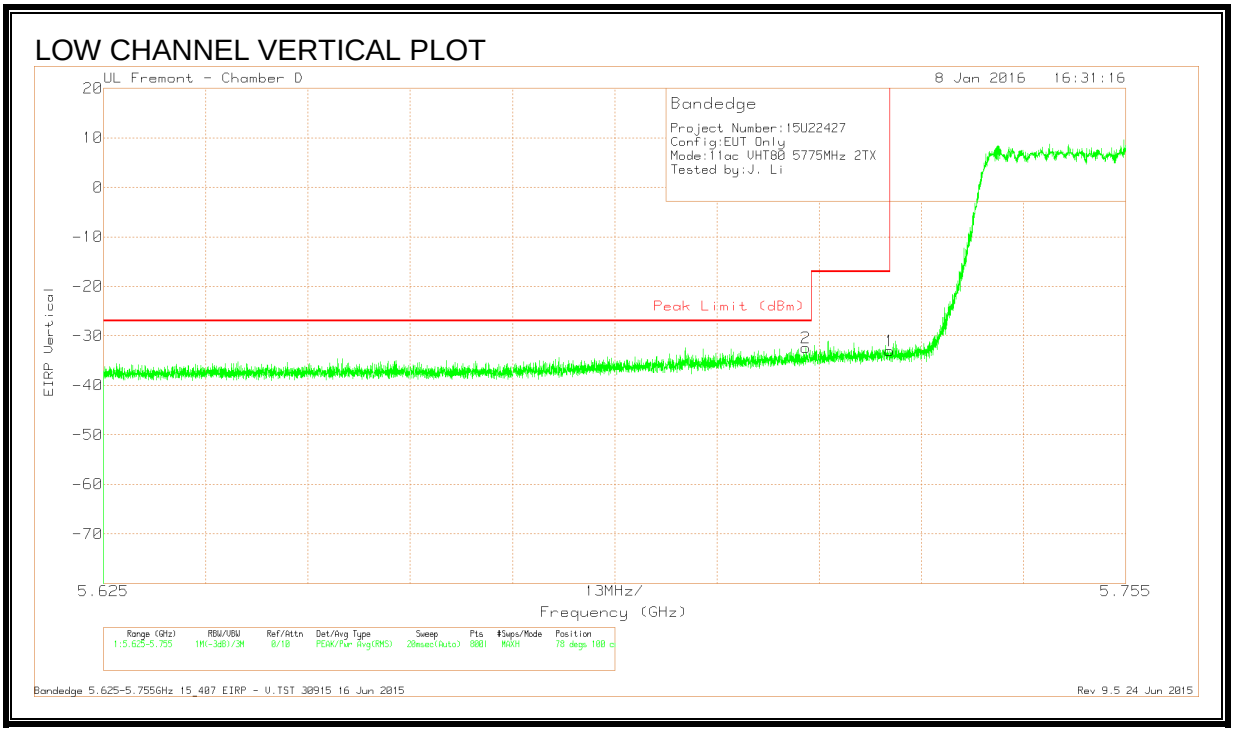


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.706	-64.08	Pk	34.5	-17.5	11.8	-35.28	-27	-8.28	104	291	H
1	5.725	-66.66	Pk	34.6	-17.6	11.8	-37.86	-17	-20.86	104	291	H

Pk - Peak detector

LOW CHANNEL VERTICAL PLOT



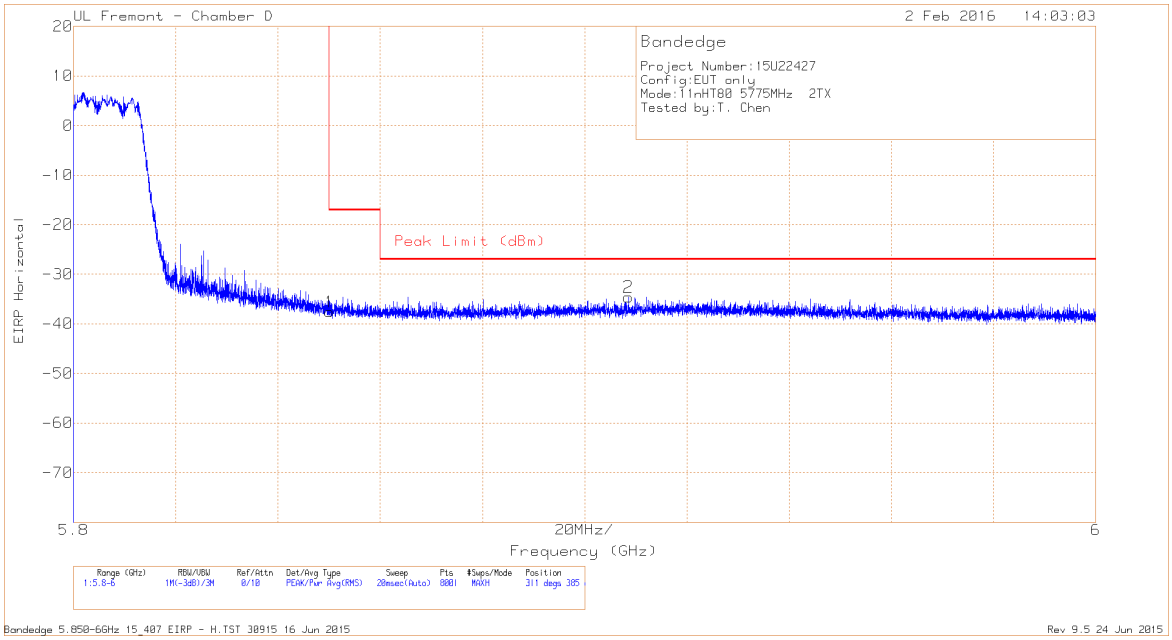
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-61.28	Pk	34.6	-17.5	11.8	-32.38	-27	-5.38	78	100	V
1	5.725	-61.79	Pk	34.6	-17.6	11.8	-32.99	-17	-15.99	78	100	V

Pk - Peak detector

RESTRICTED BANDEDGE, ANTENNA A+C (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT

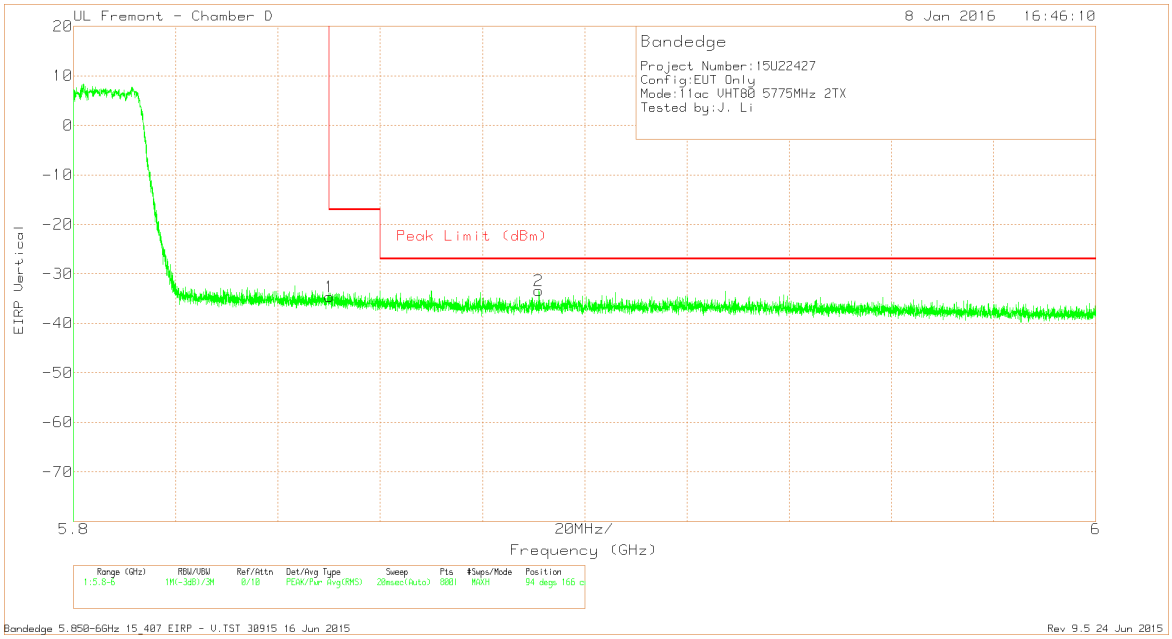


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-67	Pk	34.9	-17.3	11.8	-37.6	-17	-20.6	311	385	H
2	5.909	-64.26	Pk	35.1	-17.2	11.8	-34.56	-27	-7.56	311	385	H

Pk - Peak detector

HIGH CHANNEL VERTICAL PLOT



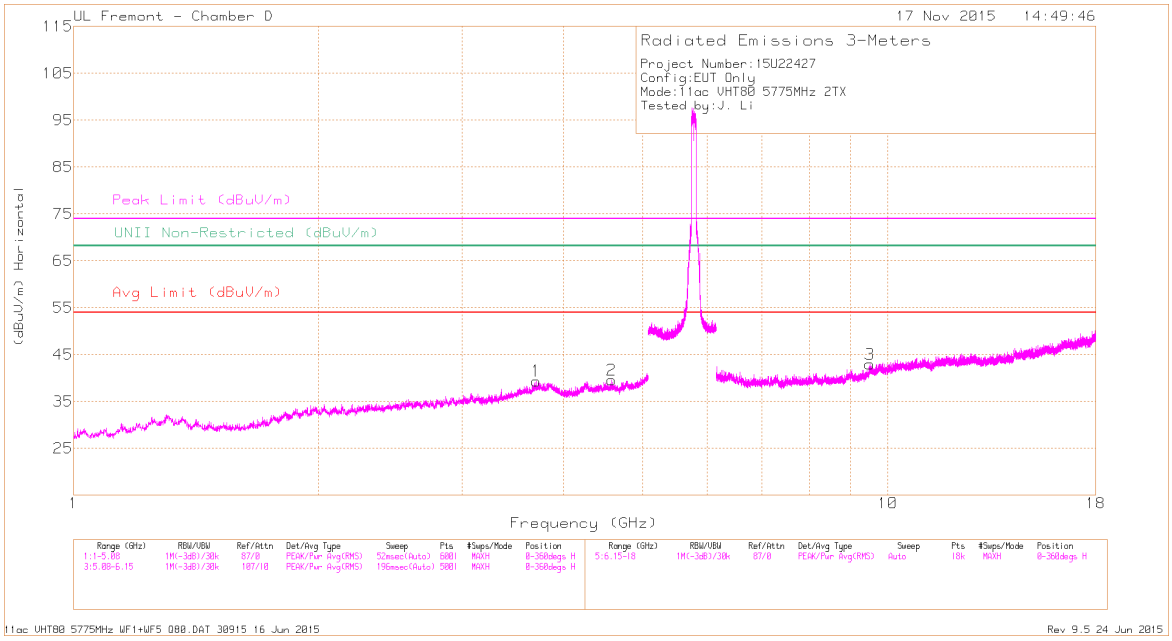
DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (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	-63.62	Pk	34.9	-17.7	11.8	-34.62	-17	-17.62	94	166	V
2	5.891	-62.78	Pk	35	-17.4	11.8	-33.38	-27	-6.38	94	166	V

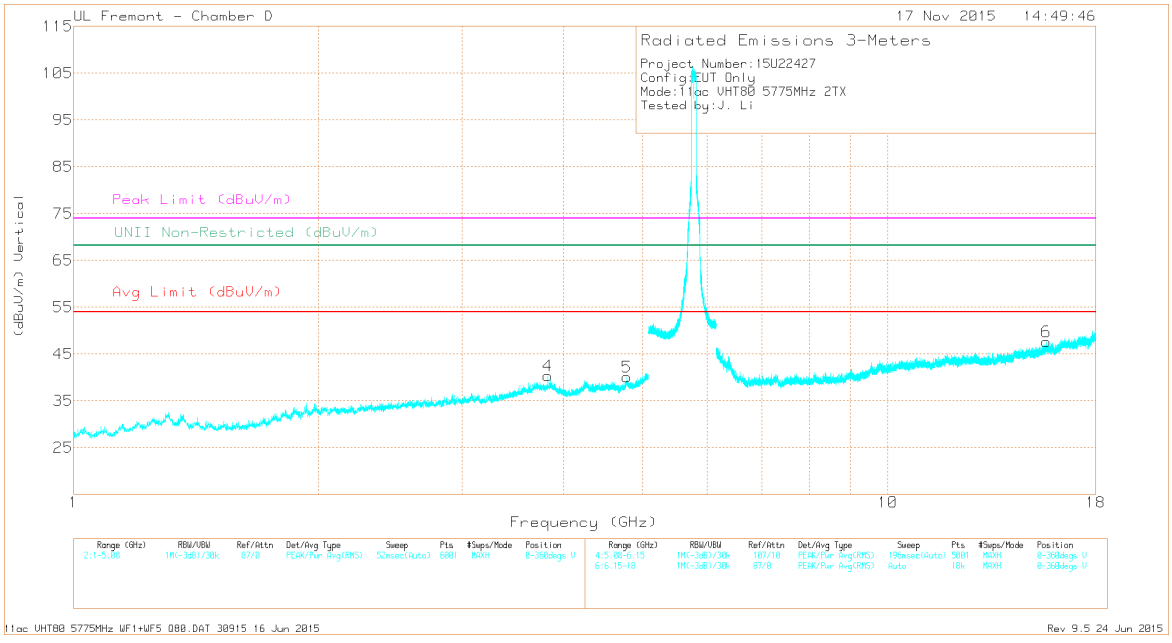
Pk - Peak detector

CHANNEL 155 HARMONICS AND SPURIOUS EMISSIONS

CHANNEL 155 HORIZONTAL PLOT



CHANNEL 155 VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 3.698	38.66	PK-U	34.7	-29.1	0	44.26	-	-	74	-29.74	-	-	271	164	H
	* 3.697	27.67	ADR	34.7	-29.1	.2	33.47	54	-20.53	-	-	-	-	271	164	H
2	* 4.579	39.07	PK-U	34	-28.4	0	44.67	-	-	74	-29.33	-	-	190	122	H
	* 4.58	27.9	ADR	34	-28.3	.2	33.8	54	-20.2	-	-	-	-	190	122	H
4	* 3.82	39.12	PK-U	34.1	-29	0	44.22	-	-	74	-29.78	-	-	166	201	V
	* 3.817	27.21	ADR	34.1	-29.1	.2	32.41	54	-21.59	-	-	-	-	166	201	V
5	* 4.778	39.23	PK-U	34.1	-27.5	0	45.83	-	-	74	-28.17	-	-	48	273	V
	* 4.778	27.91	ADR	34.1	-27.5	.2	34.71	54	-19.29	-	-	-	-	48	273	V
6	* 15.652	35.82	PK-U	40.6	-22.5	0	53.92	-	-	74	-20.08	-	-	179	143	V
	* 15.655	24.29	ADR	40.6	-22.6	.2	42.49	54	-11.51	-	-	-	-	179	143	V
3	9.501	34.4	PK-U	36.7	-22	0	49.1	-	-	-	-	68.2	-19.1	322	256	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

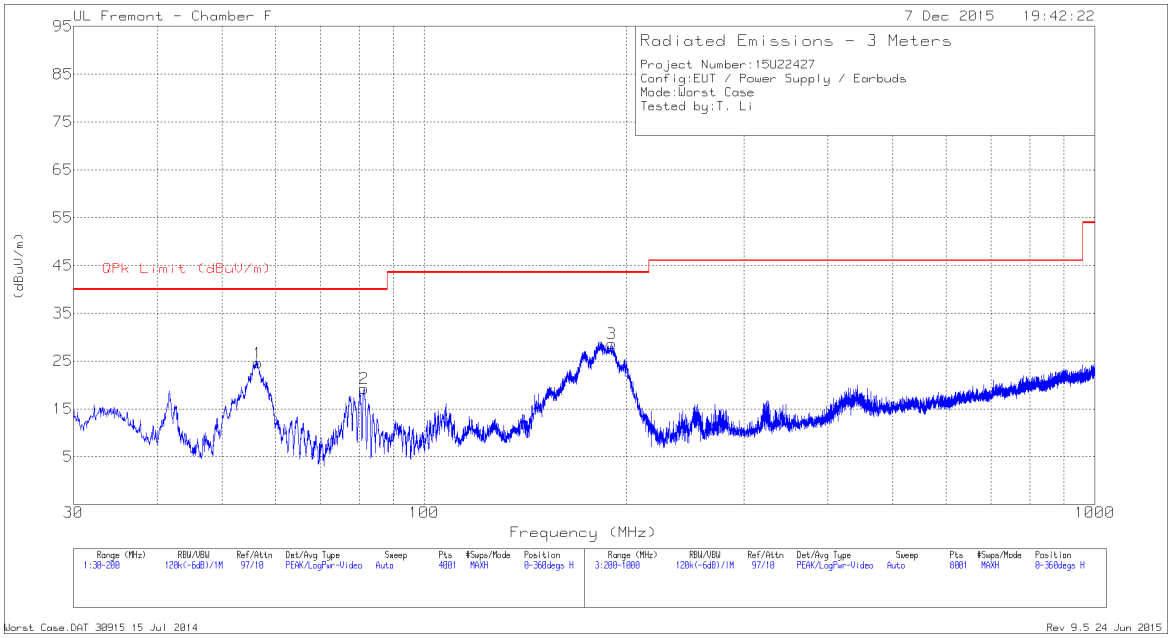
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

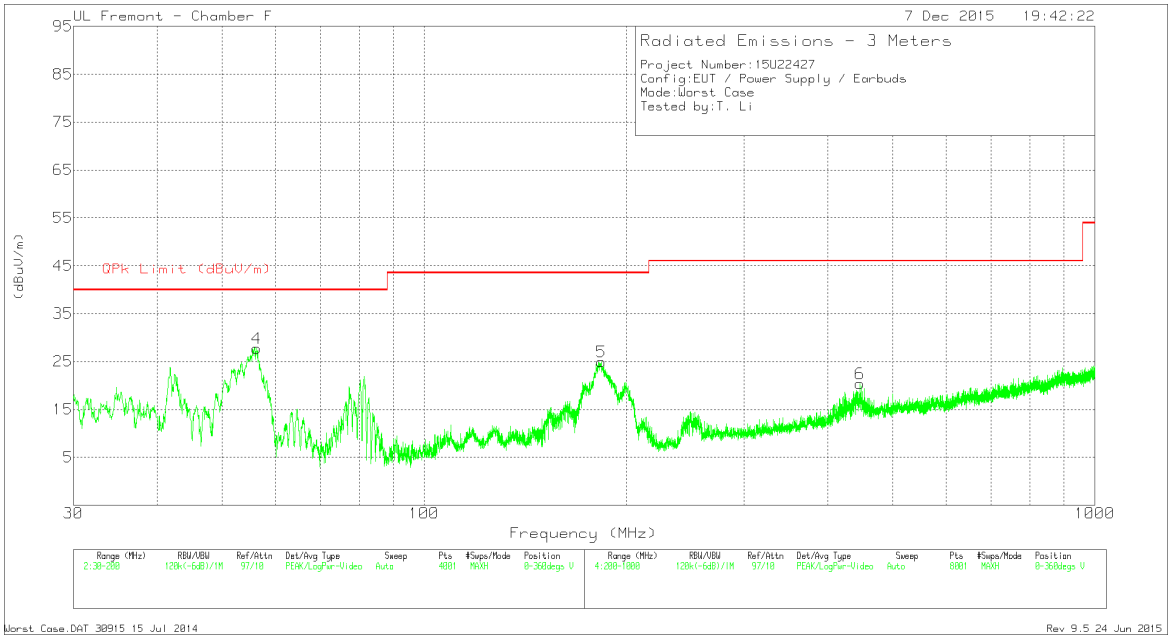
9.26. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



DATA

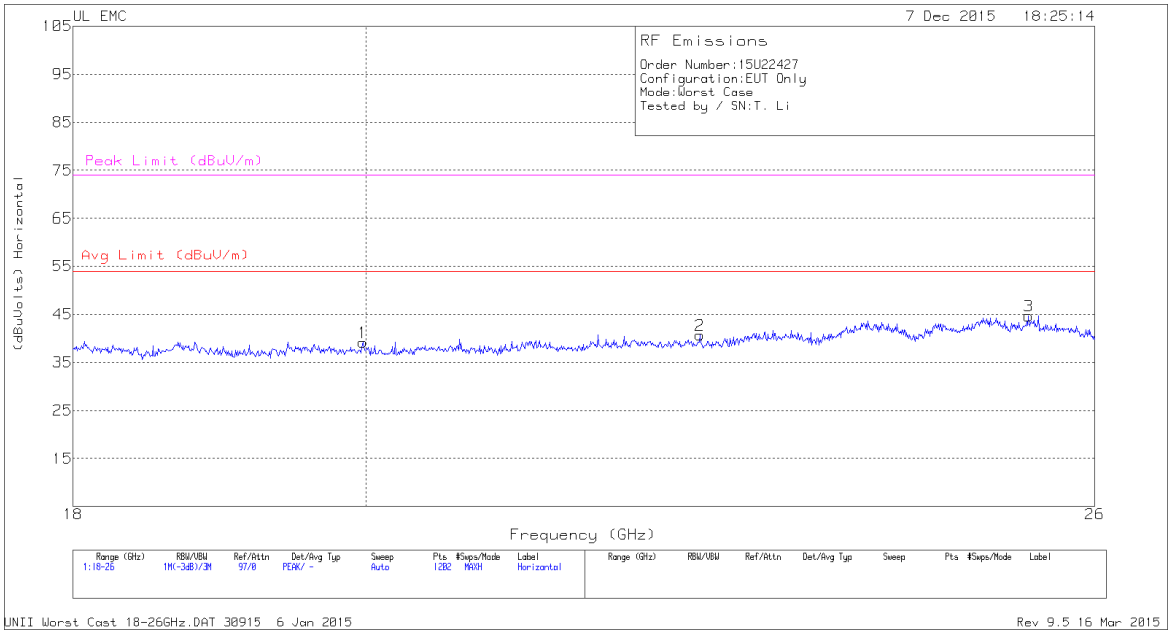
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.4775	48.9	Pk	7.3	-31.6	24.6	40	-15.4	0-360	400	H
2	81.3825	42.76	Pk	7.9	-31.4	19.26	40	-20.74	0-360	201	H
3	190.5225	47.8	Pk	11.4	-30.6	28.6	43.52	-14.92	0-360	103	H
4	56.2225	52.09	Pk	7.3	-31.6	27.79	40	-12.21	0-360	100	V
5	183.6375	44.48	Pk	11.2	-30.7	24.98	43.52	-18.54	0-360	100	V
6	446.4	32.9	Pk	16.9	-29.4	20.4	46.02	-25.62	0-360	100	V

Pk - Peak detector

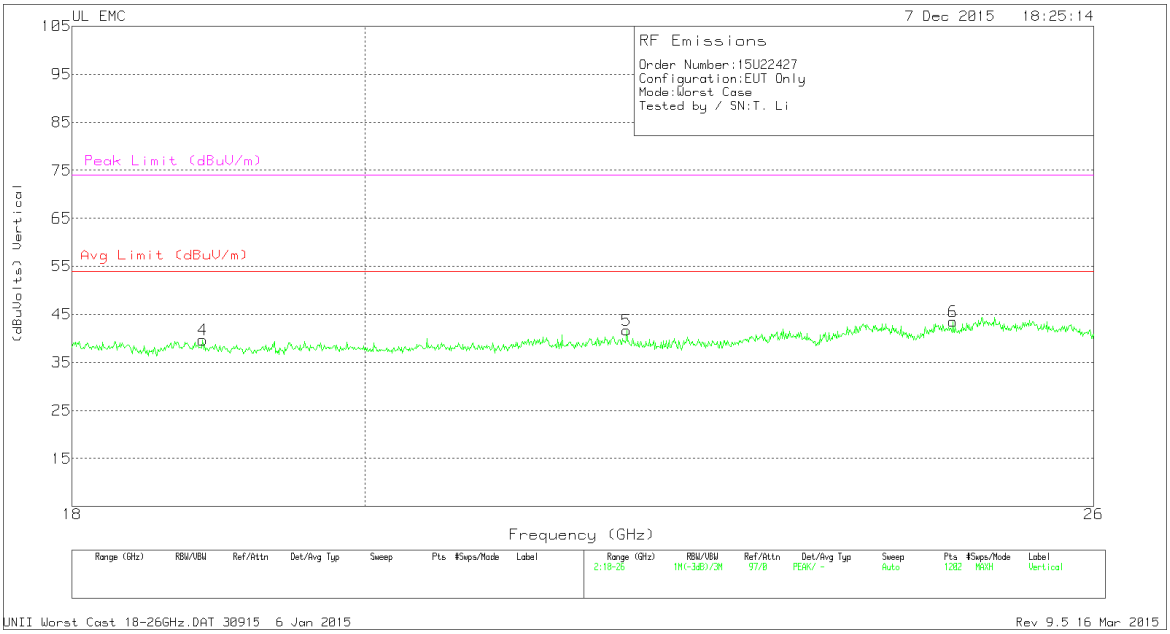
9.27. WORST-CASE ABOVE 18 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION)

HORIZONTAL PLOT



VERTICAL PLOT



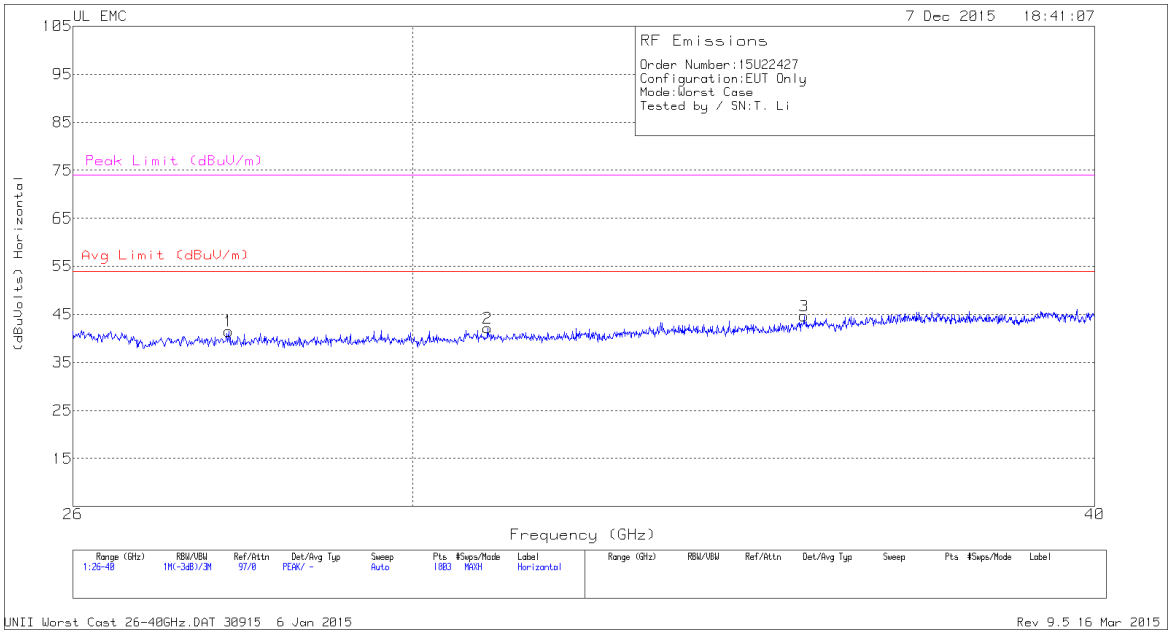
DATA

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	19.978	40.77	Pk	33	-25.1	-9.5	39. 7	54	-14.83	74	-34.83
2	22.556	41.77	Pk	33.3	-24.9	-9.5	40.67	54	-13.33	74	-33.33
3	25.387	44.77	Pk	33.7	-24.3	-9.5	44.67	54	-9.33	74	-29.33
4	18.866	41.97	Pk	32.4	-25.2	-9.5	39.67	54	-14.33	74	-34.33
5	21.977	43.07	Pk	33.2	-25.1	-9.5	41.67	54	-12.33	74	-32.33
6	24.714	43.9	Pk	33.8	-24.7	-9.5	43.5	54	-10.5	74	-30.5

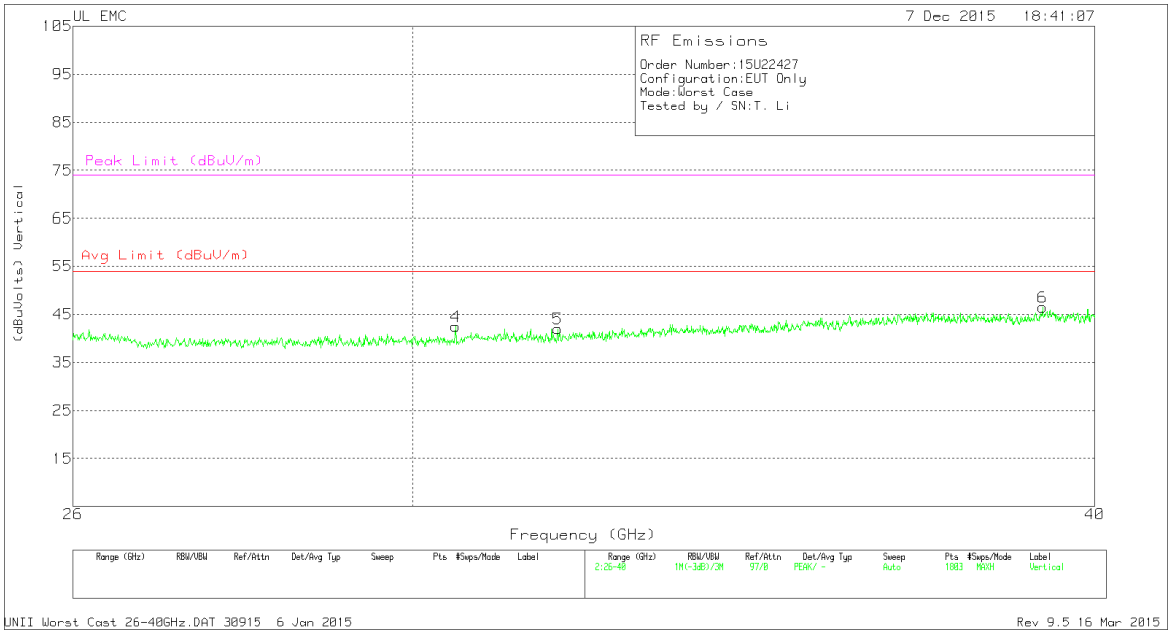
Pk - Peak detector

SPURIOUS EMISSIONS 26000 TO 40000 MHz (WORST-CASE CONFIGURATION)

HORIZONTAL PLOT



VERTICAL PLOT



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	27.764	46.4	Pk	35.8	-31.2	-9.5	41.5	54	-12.5	74	-32.5
2	30.964	48.47	Pk	35.9	-32.7	-9.5	42.17	54	-11.83	74	-31.83
3	35.385	49.67	Pk	37.8	-33.3	-9.5	44.67	54	-9.33	74	-29.33
4	30.553	48.5	Pk	36	-32.5	-9.5	42.5	54	-11.5	74	-31.5
5	31.897	47.9	Pk	36.3	-32.7	-9.5	42	54	-12	74	-32
6	39.13	50.1	Pk	37.9	-32	-9.5	46.5	54	-7.5	74	-27.5

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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.

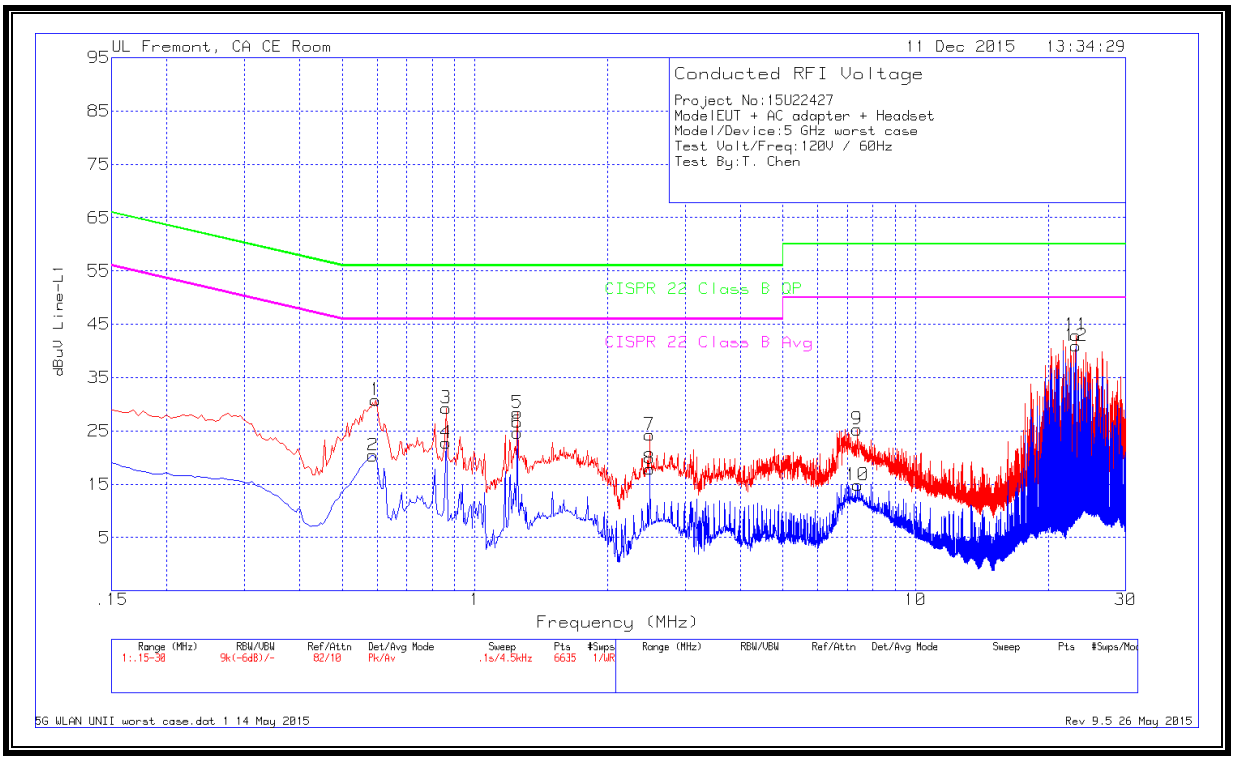
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. EUT POWERED BY AC ADAPTER

LINE 1 RESULTS

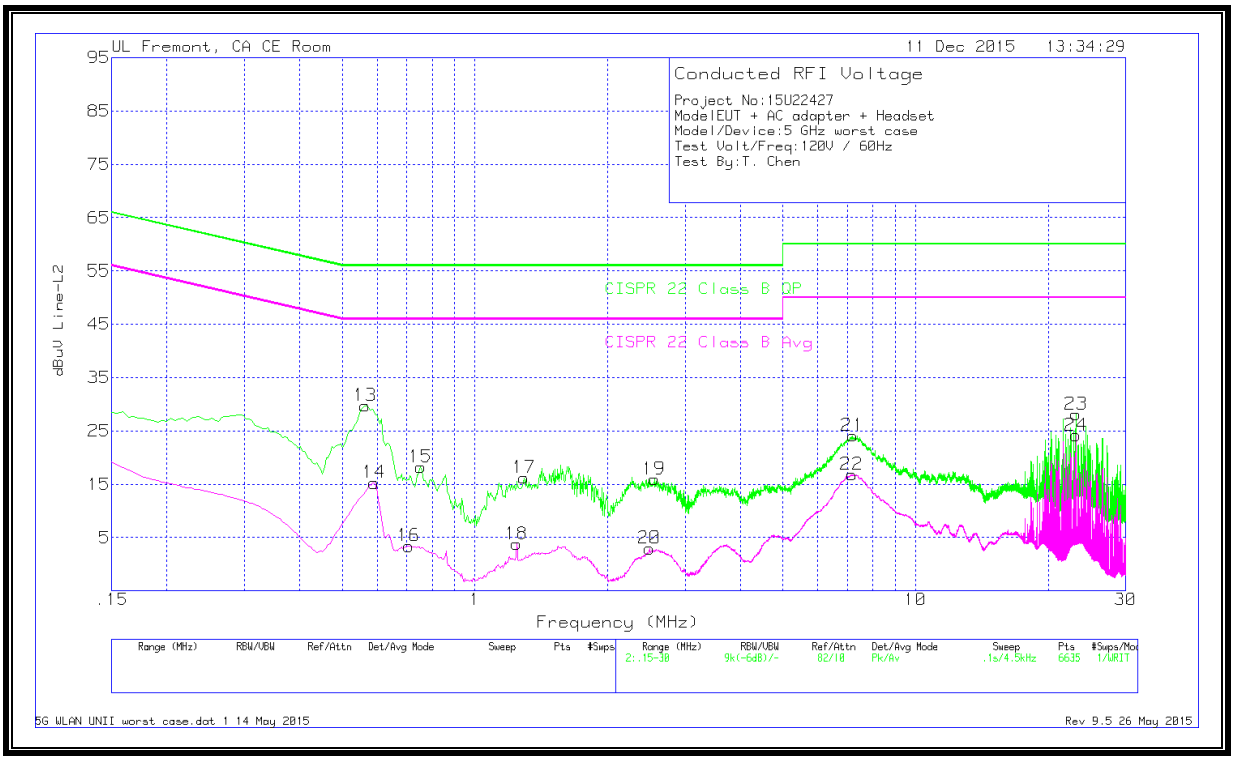


WORST EMISSIONS

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	.5955	30.5	Pk	.3	0	30.8	56	-25.2	-	-
2	.5865	20.09	Av	.3	0	20.39	-	-	46	-25.61
3	.861	28.96	Pk	.3	0	29.26	56	-26.74	-	-
4	.861	22.5	Av	.3	0	22.8	-	-	46	-23.2
5	1.248	28.2	Pk	.2	0	28.4	56	-27.6	-	-
6	1.248	24.47	Av	.2	0	24.67	-	-	46	-21.33
7	2.4945	23.92	Pk	.2	.1	24.22	56	-31.78	-	-
8	2.4945	17.58	Av	.2	.1	17.88	-	-	46	-28.12
9	7.3725	24.98	Pk	.2	.1	25.28	60	-34.72	-	-
10	7.395	14.52	Av	.2	.1	14.82	-	-	50	-35.18
11	23.127	42.44	Pk	.3	.2	42.94	60	-17.06	-	-
12	23.127	40.48	Av	.3	.2	40.98	-	-	50	-9.02

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



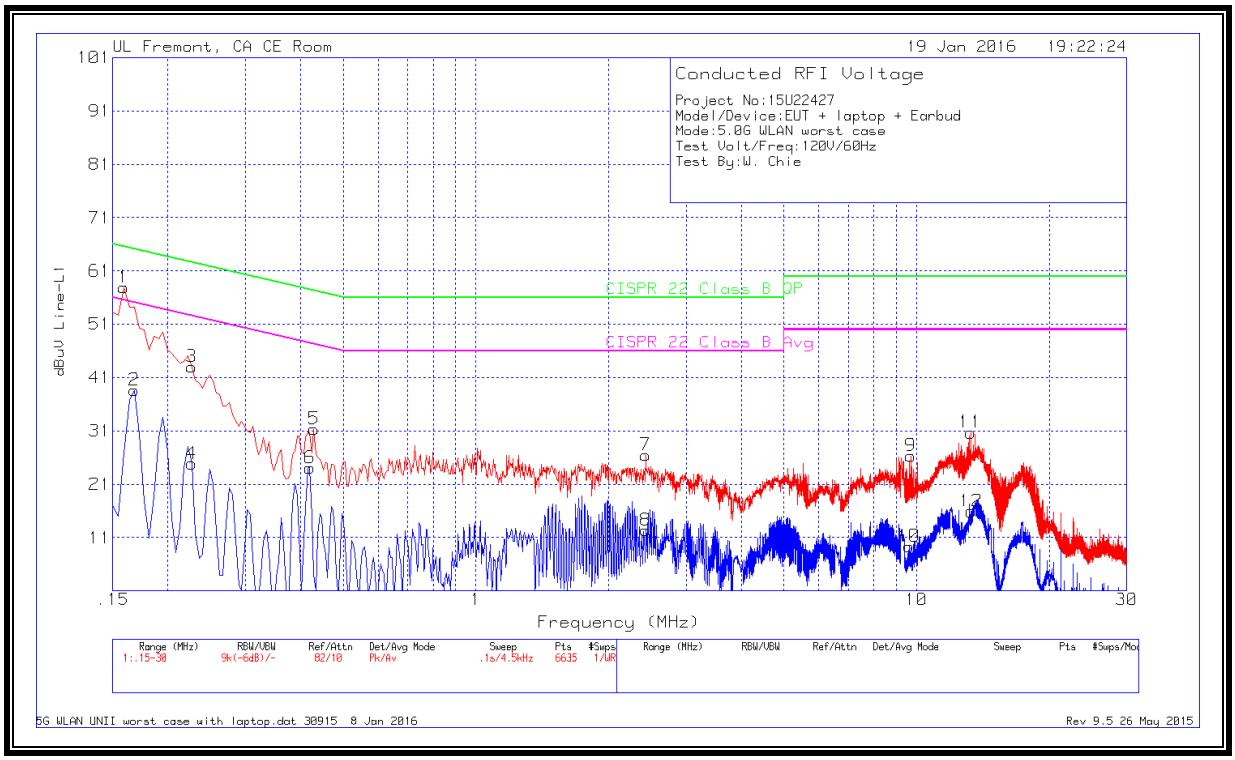
WORST EMISSIONS

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)
13	.564	29.39	Pk	.3	0	29.69	56	-26.31	-	-
14	.591	14.94	Av	.3	0	15.24	-	-	46	-30.76
15	.753	17.95	Pk	.3	0	18.25	56	-37.75	-	-
16	.708	3.08	Av	.3	0	3.38	-	-	46	-42.62
17	1.293	15.87	Pk	.2	.1	16.17	56	-39.83	-	-
18	1.2435	3.48	Av	.2	.1	3.78	-	-	46	-42.22
19	2.553	15.67	Pk	.2	.1	15.97	56	-40.03	-	-
20	2.49	2.64	Av	.2	.1	2.94	-	-	46	-43.06
21	7.206	23.79	Pk	.2	.1	24.09	60	-35.91	-	-
22	7.17	16.5	Av	.2	.1	16.8	-	-	50	-33.2
23	23.127	27.6	Pk	.3	.2	28.1	60	-31.9	-	-
24	23.127	23.68	Av	.3	.2	24.18	-	-	50	-25.82

Pk - Peak detector
Av - Average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

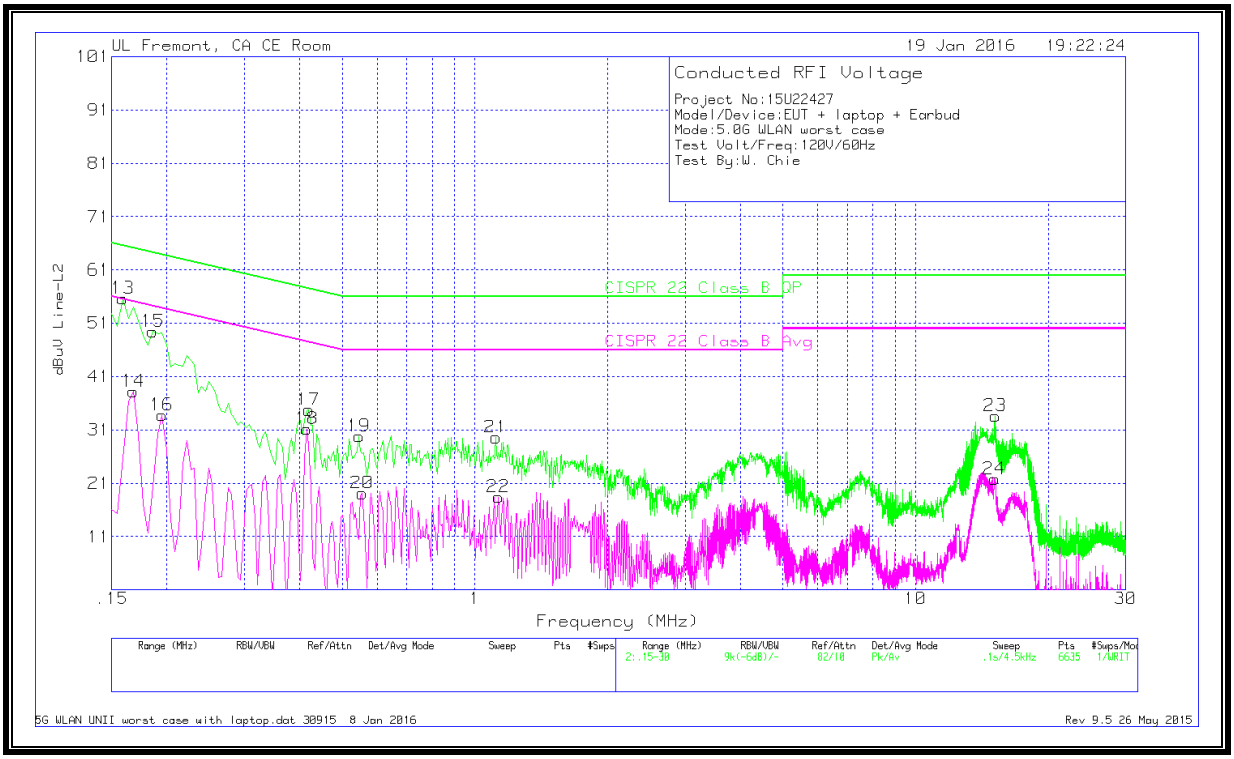


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T1310 IL L1	LC Cables 1&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
1	.159	57.88	Pk	0	0	57.88	65.52	-7.64	-	-
2	.168	38.63	Av	0	0	38.63	-	-	55.06	-16.43
3	.2265	42.99	Pk	0	0	42.99	62.58	-19.59	-	-
4	.2265	24.86	Av	0	0	24.86	-	-	52.58	-27.72
5	.429	31.31	Pk	0	0	31.31	57.27	-25.96	-	-
6	.42	24.05	Av	0	0	24.05	-	-	47.45	-23.4
7	2.427	26.33	Pk	0	.1	26.43	56	-29.57	-	-
8	2.427	12.26	Av	0	.1	12.36	-	-	46	-33.64
9	9.7125	26.09	Pk	0	.2	26.29	60	-33.71	-	-
10	9.618	9.14	Av	0	.2	9.34	-	-	50	-40.66
11	13.263	30.36	Pk	.1	.2	30.66	60	-29.34	-	-
12	13.308	15.6	Av	.1	.2	15.9	-	-	50	-34.1

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T1310 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
13	.159	55.6	Pk	0	0	55.6	65.52	-9.92	-	-
14	.168	38.19	Av	0	0	38.19	-	-	55.06	-16.87
15	.186	49.46	Pk	0	0	49.46	64.21	-14.75	-	
16	.195	33.73	Av	0	0	33.73	-	-	53.82	-20.09
17	.42	34.74	Pk	0	0	34.74	57.45	-22.71	-	-
18	.4155	31.17	Av	0	0	31.17	-	-	47.54	-16.37
19	.546	29.78	Pk	0	0	29.78	56	-26.22	-	-
20	.555	19.1	Av	0	0	19.1	-	-	46	-26.9
21	1.1175	29.58	Pk	0	0	29.58	56	-26.42	-	-
22	1.131	18.31	Av	0	.1	18.41	-	-	46	-27.59
23	15.18	33.41	Pk	0	.2	33.61	60	-26.39	-	-
24	15.1035	21.58	Av	0	.2	21.78	-	-	50	-28.22

Pk - Peak detector
Av - Average detection

11. DYNAMIC FREQUENCY SELECTION

11.1. OVERVIEW

11.1.1. LIMITS

FCC

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
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.		

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.

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

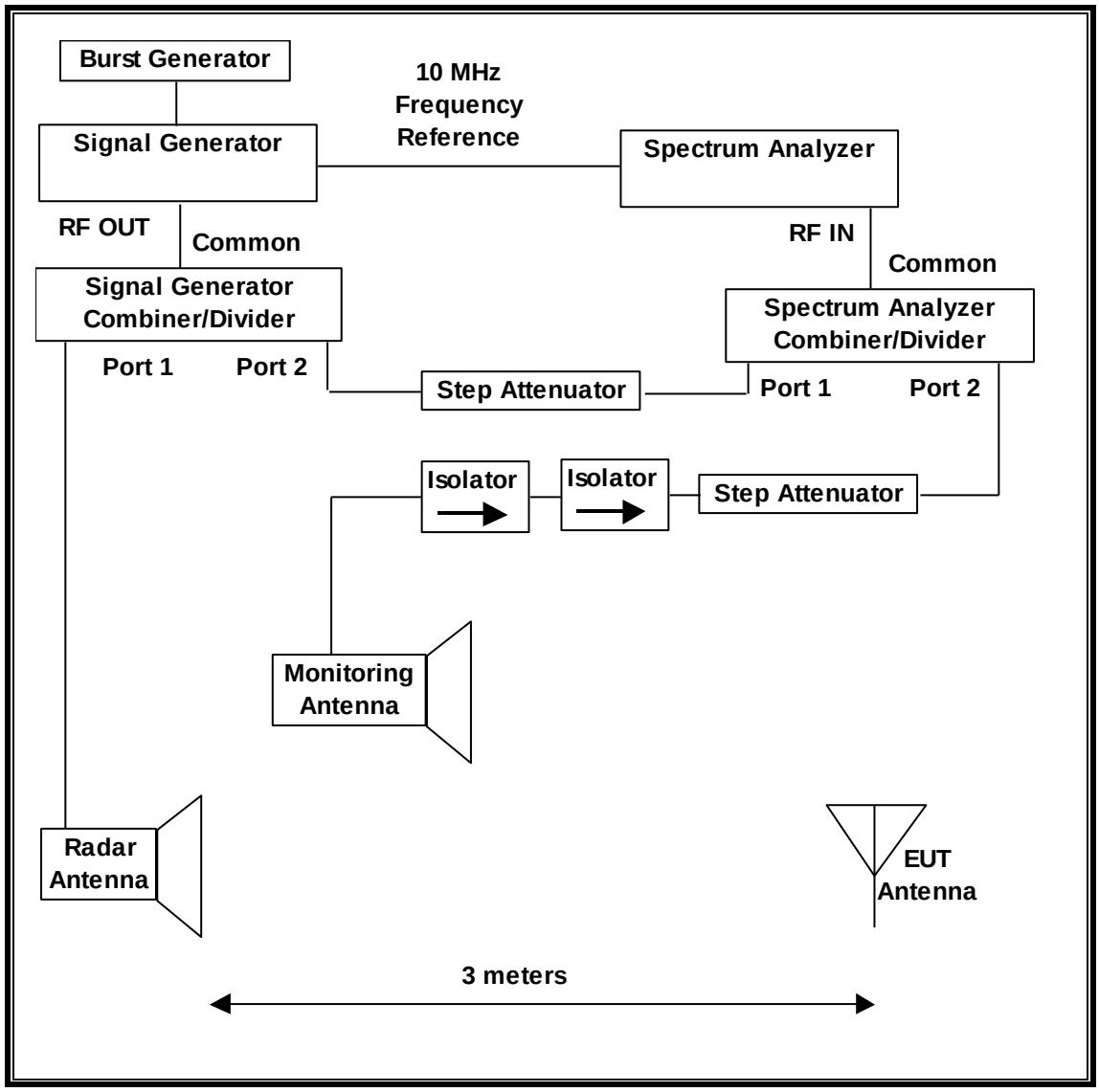
Radar Waveform Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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

11.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

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

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

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

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

SYSTEM CALIBRATION

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

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

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

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

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

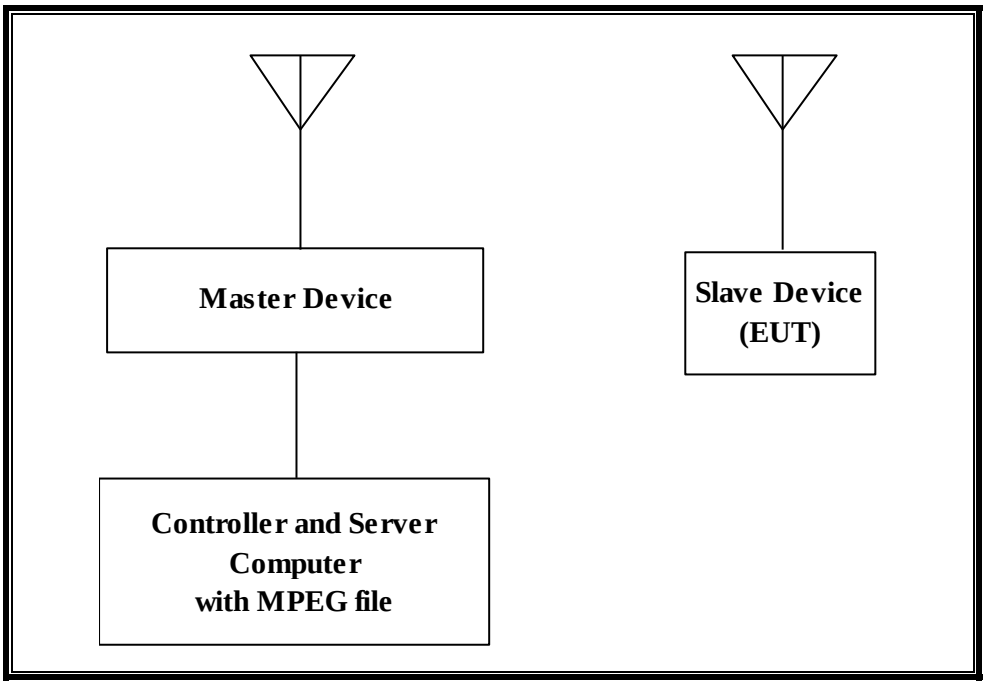
TEST AND MEASUREMENT EQUIPMENT

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

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

11.1.3. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



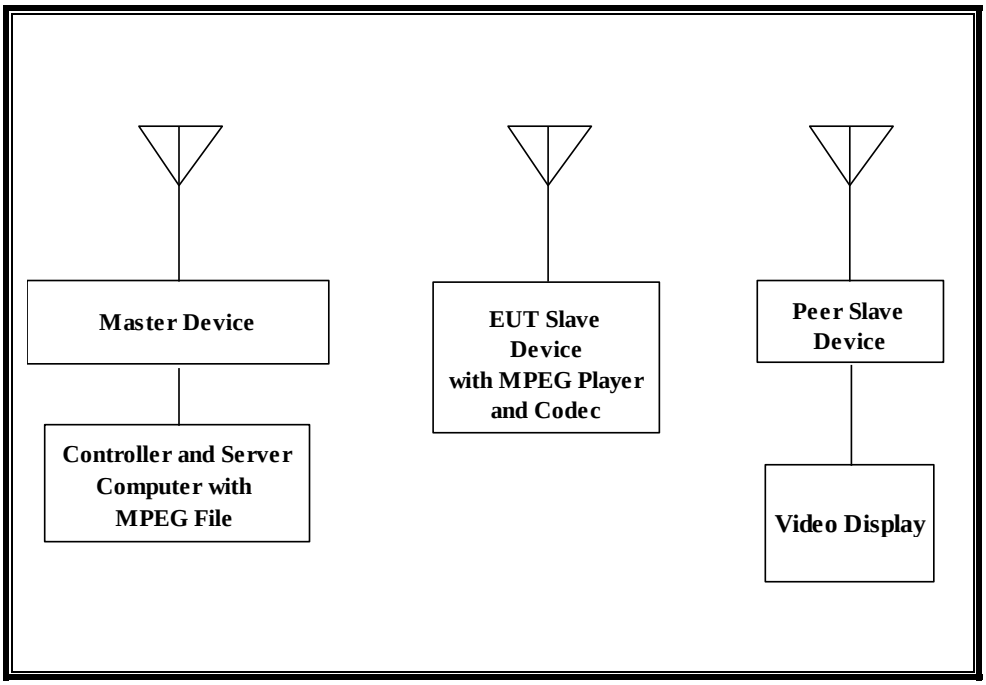
SUPPORT EQUIPMENT

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**
3x3 MIMO Base Station (Master Device)	Apple	A1521	C86PJ60JFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1278	C02HJ0A7DTY4	DoC
AC Adapter (Controller/Server PC)	Dongguan Samsung Electro Mechanics	A1344	RR008012YAL3A	DoC

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**
3x3 MIMO Base Station (Master Device)	Apple	A1521	C86PJ60JFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1278	C02HJ0A7DTY4	DoC
AC Adapter (Controller/Server PC)	Dongguan Samsung Electro Mechanics	A1344	RR008012YAL3A	DoC
Apple TV (Peer Slave Device)	Apple	A1469	C07K202CFFF1	BCGA1469
Video Display	Polaroid	TLX-01511C	02006	DoC

11.1.5. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 22.64 dBm EIRP in the 5250-5350 MHz band and 22.72 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly consists of 3 antennas with individual gains of 3.02 dBi, 2.12 dBi and 2.23 dBi in the 5250-5350 MHz band and 2.83 dBi, 4.16 dBi and 4.03 dBi in the 5470-5725 MHz band.

Two identical antennas are utilized to meet the diversity and MIMO operational requirements.

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

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

The EUT uses two transmitter/receiver chains connected to an antenna to perform radiated tests.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using OPlayer HD Lite media player.

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

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz. However, pursuant to FCC KDB Publication 848637, “Client devices with 80 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode”. Therefore, 80MHz BW DFS testing was not performed and has been excluded from this report.

The software installed in the EUT is 13E172.

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

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 7.7.4 f0 dev.

11.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

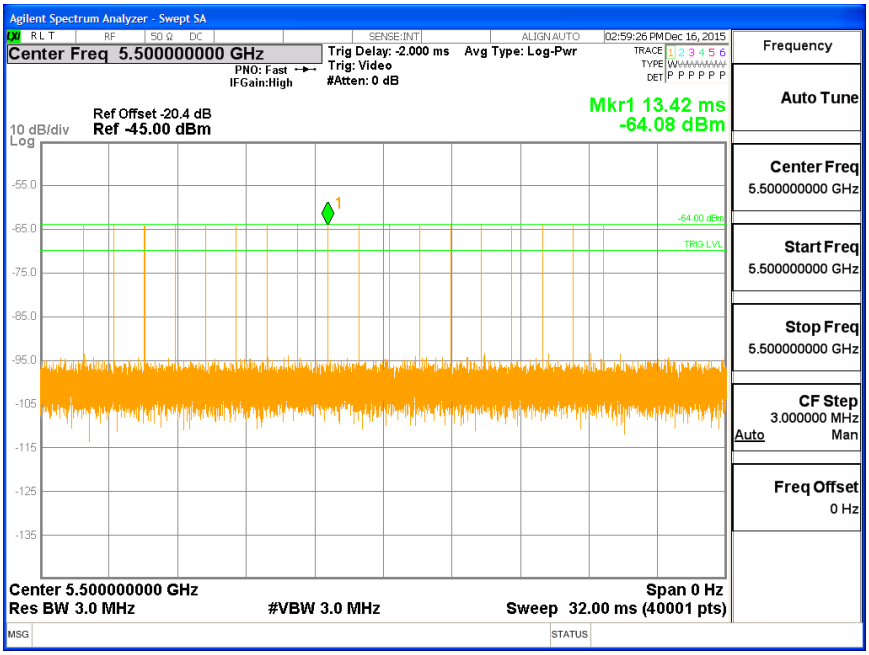
11.2.1. TEST CHANNEL

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

11.2.2. RADAR WAVEFORM AND TRAFFIC

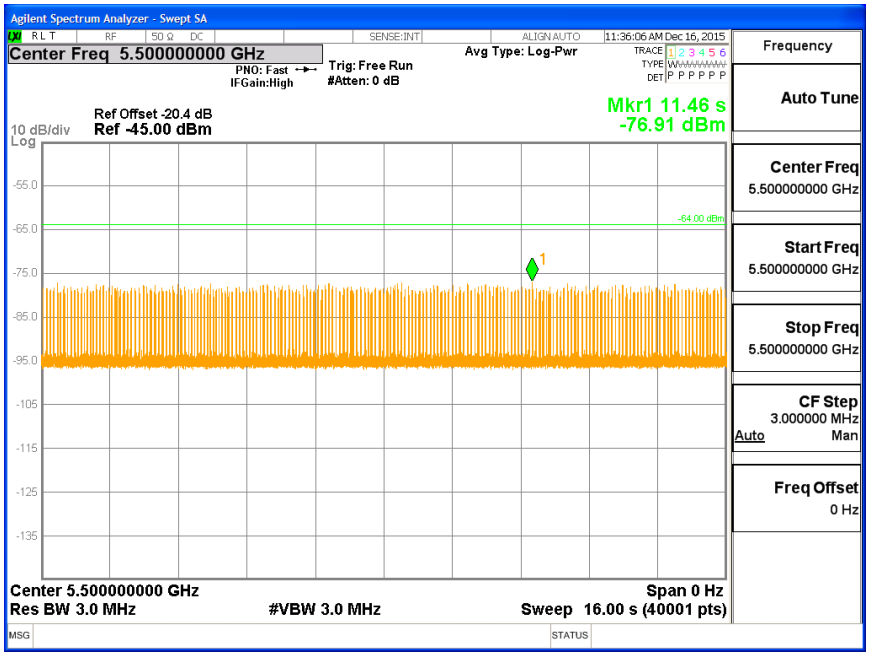
RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER

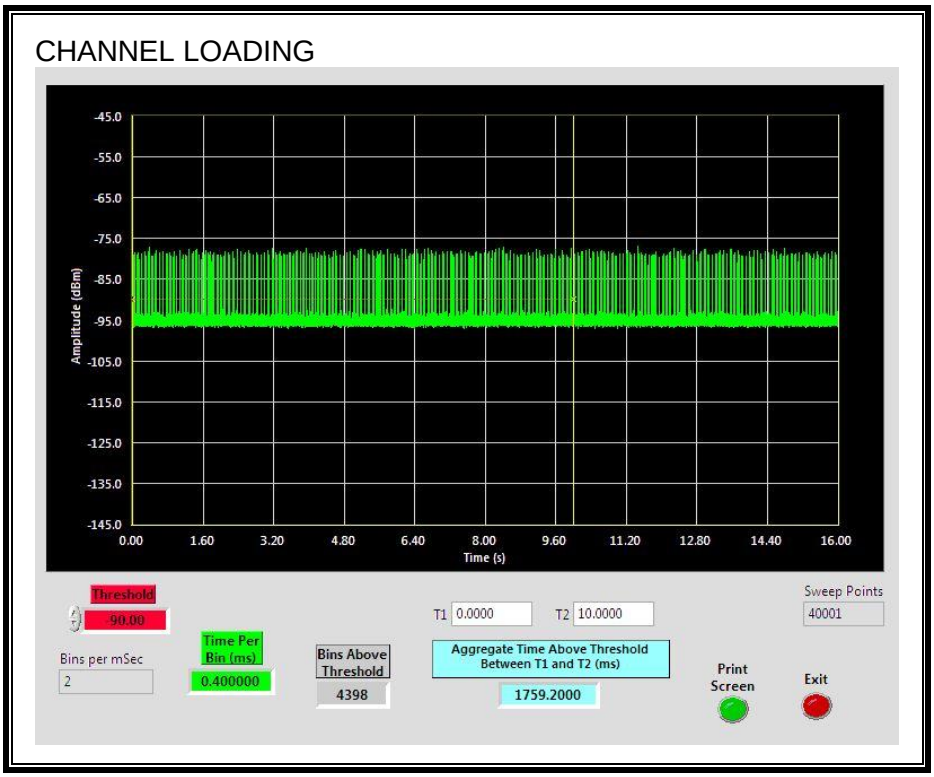


TRAFFIC

SLAVE TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.59%

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).

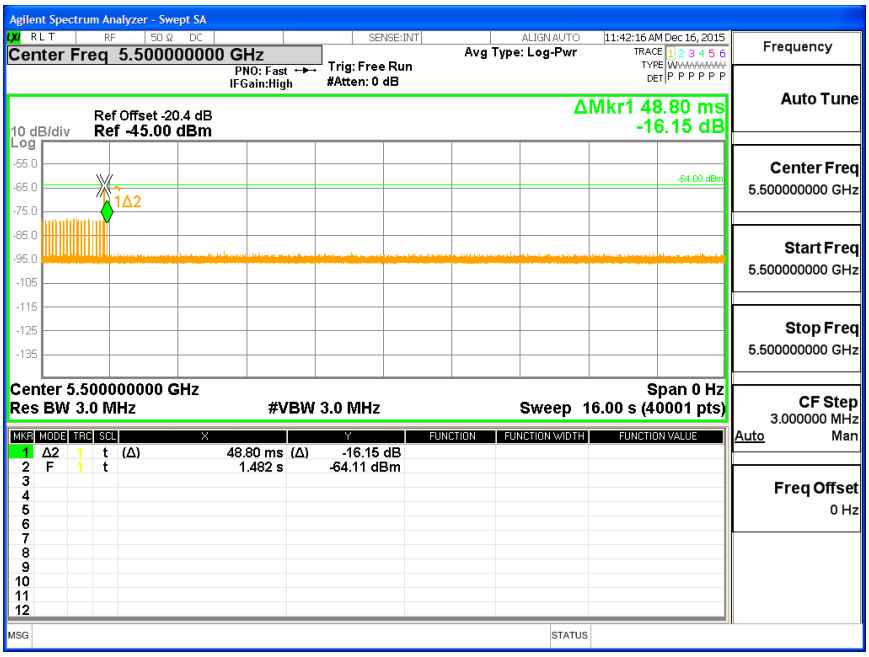
RESULTS

Channel Move Time (sec)	Limit (sec)
0.0488	10

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

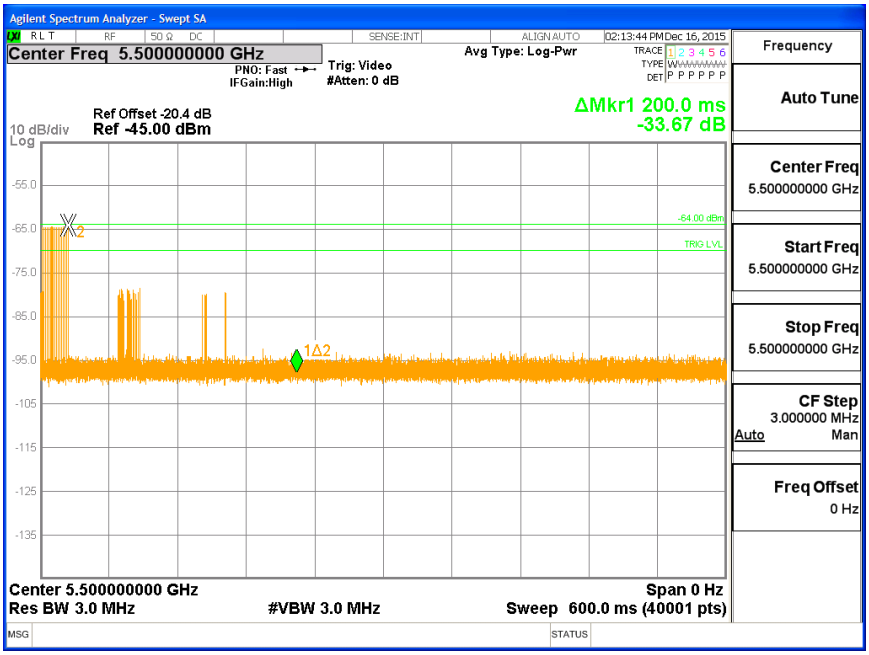
MOVE TIME

MOVE TIME



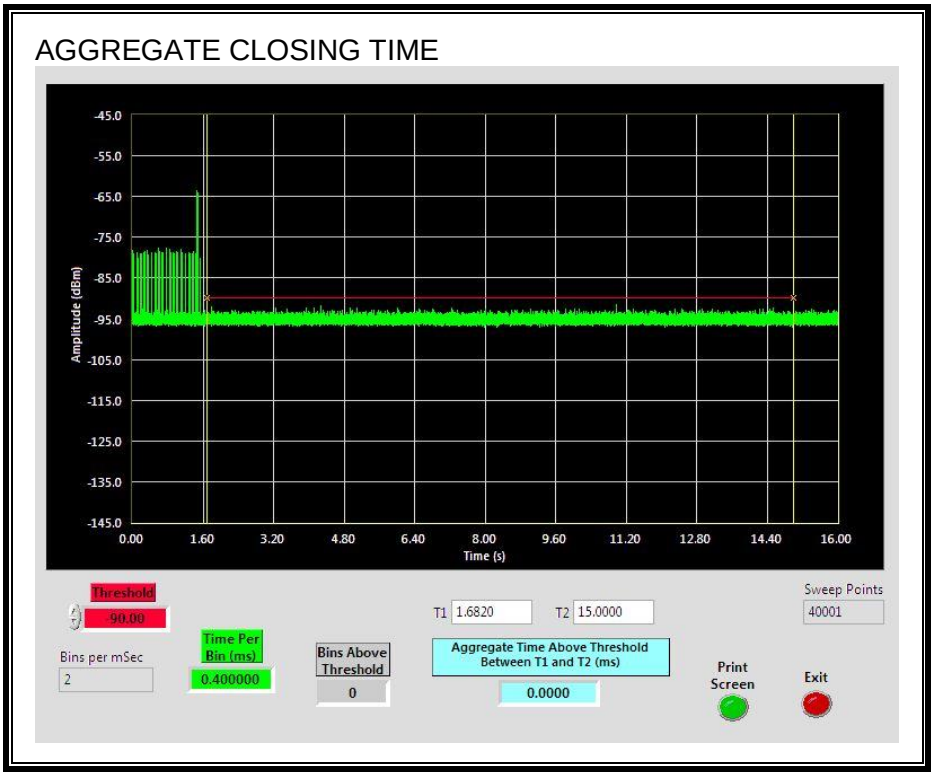
CHANNEL CLOSING TIME

CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

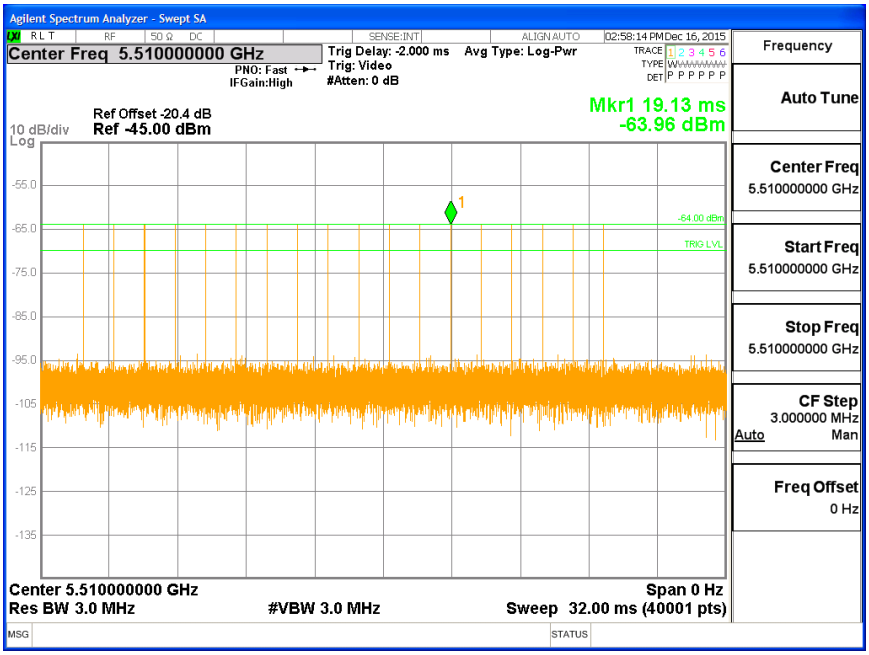
11.3.1. TEST CHANNEL

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

11.3.2. RADAR WAVEFORM AND TRAFFIC

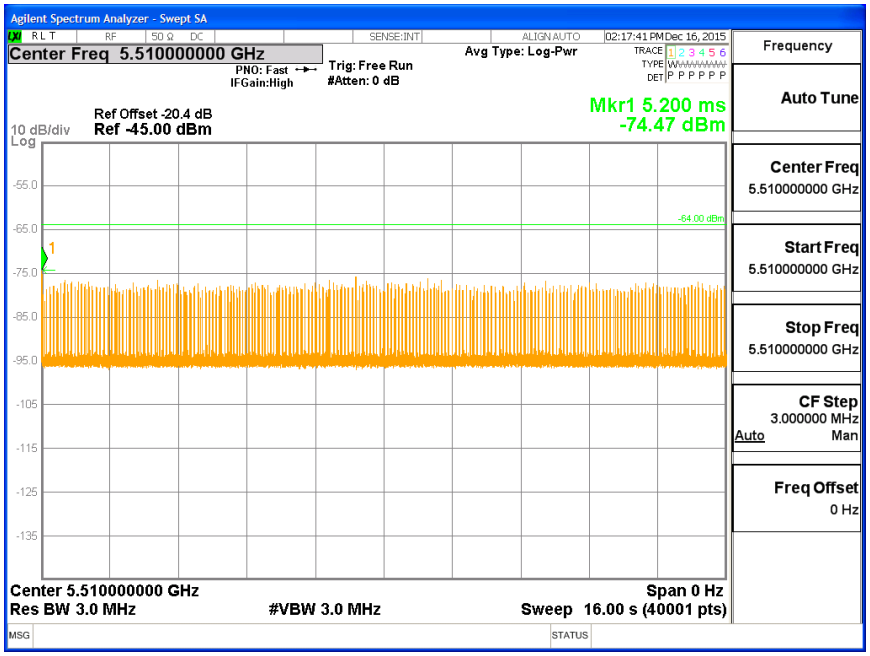
RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER

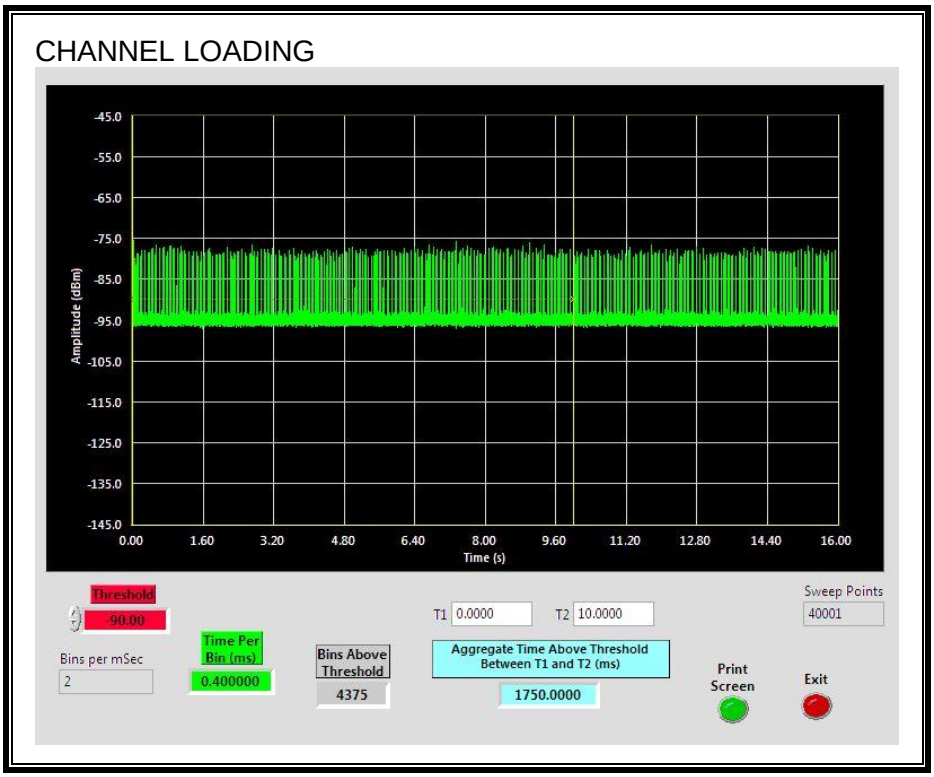


TRAFFIC

SLAVE TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.5%

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).

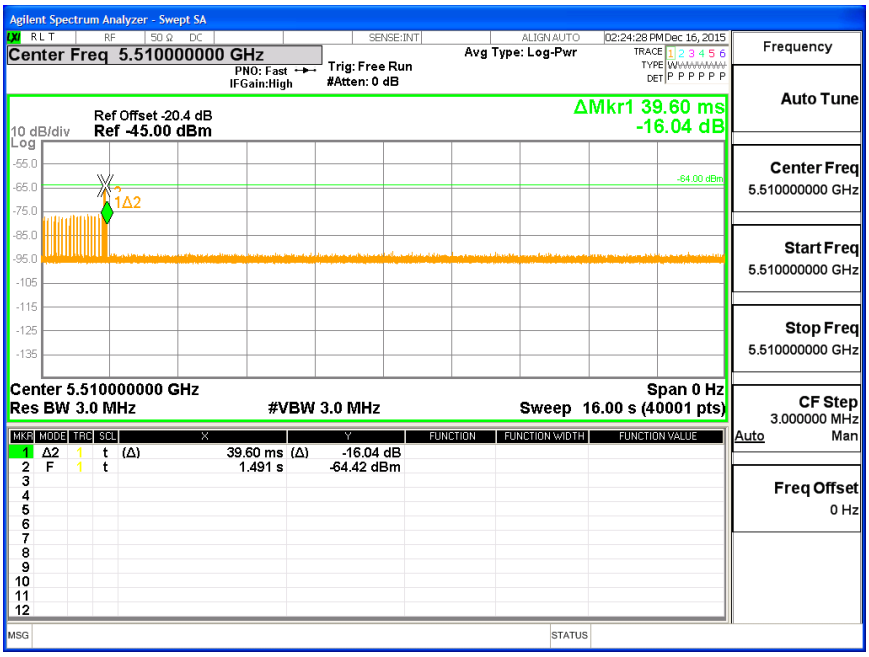
RESULTS

Channel Move Time (sec)	Limit (sec)
0.0396	10

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

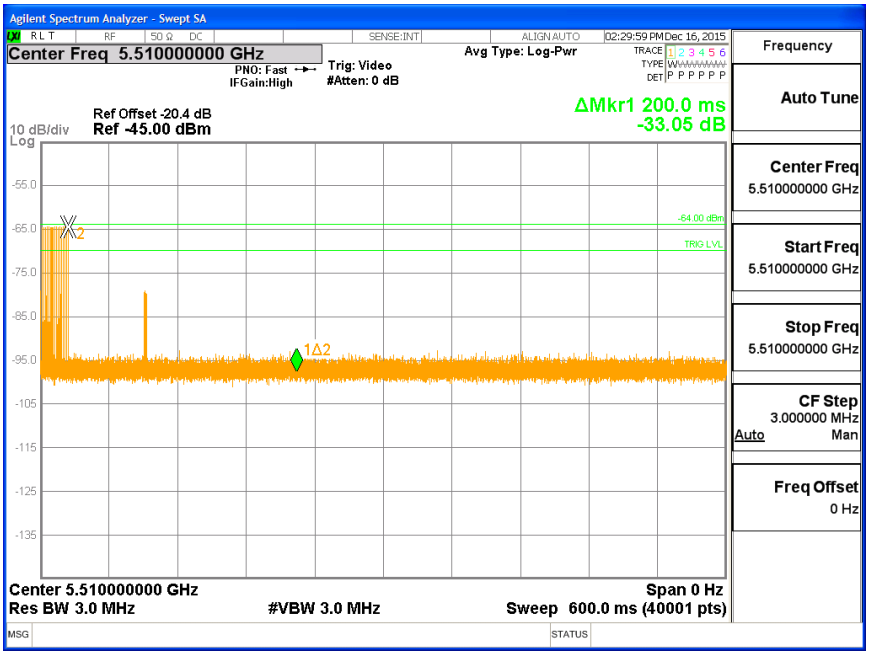
MOVE TIME

MOVE TIME



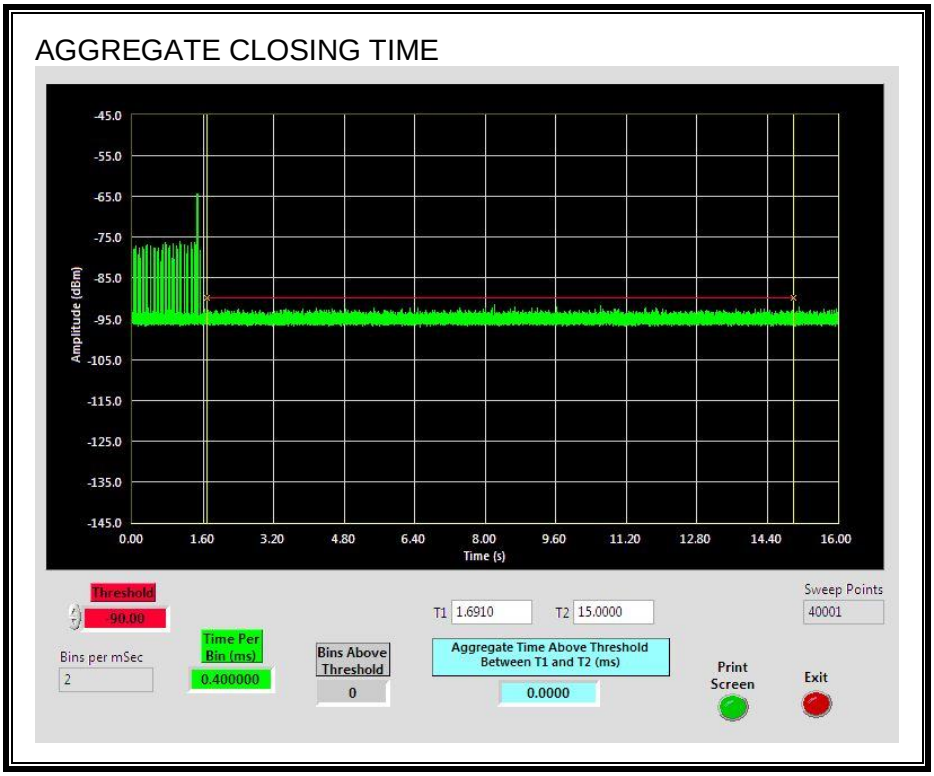
CHANNEL CLOSING TIME

CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.

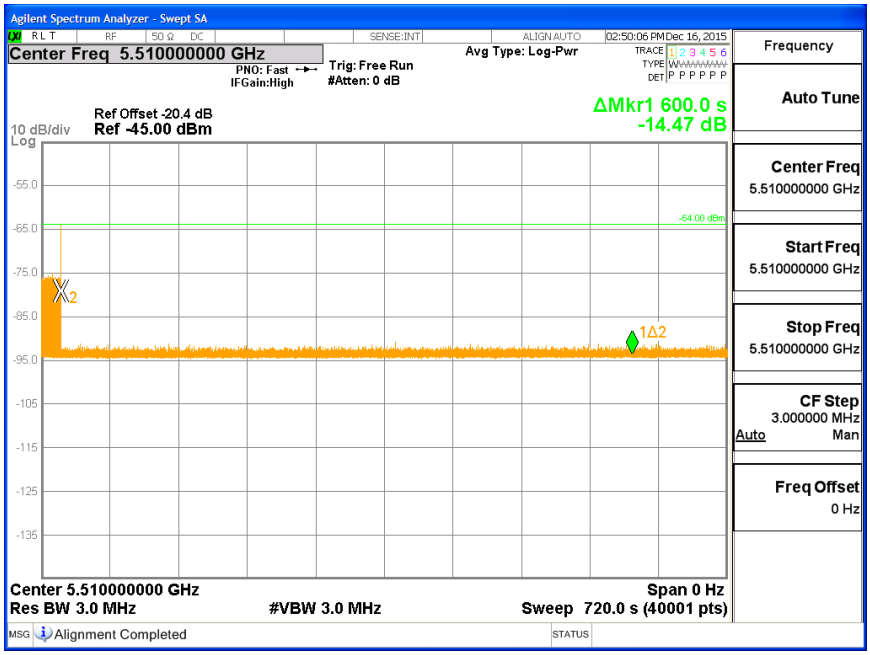


11.3.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

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

10-MINUTE CLIENT Tx MONITORING PERIOD



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

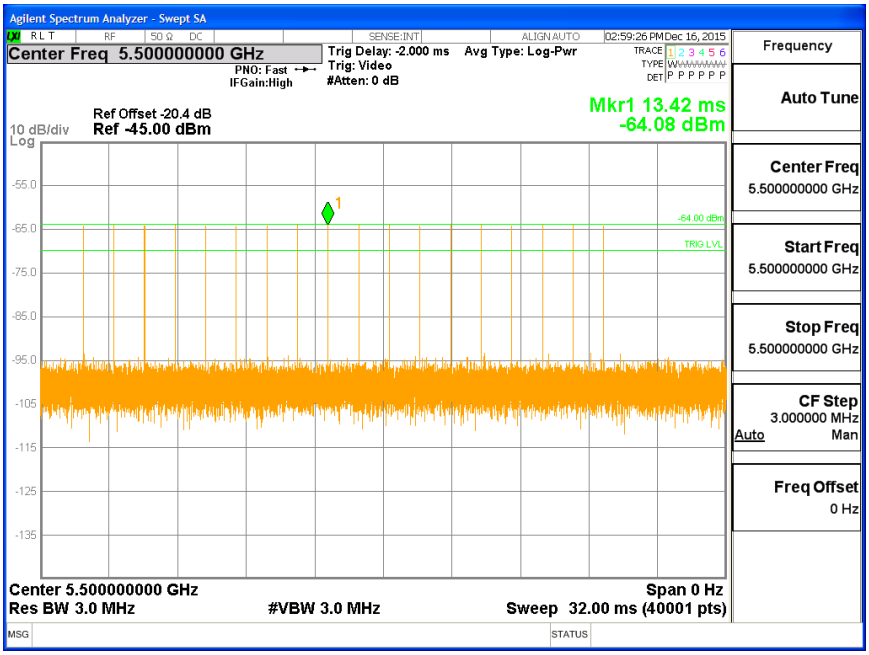
11.4.1. TEST CHANNEL

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

11.4.2. RADAR WAVEFORM AND TRAFFIC

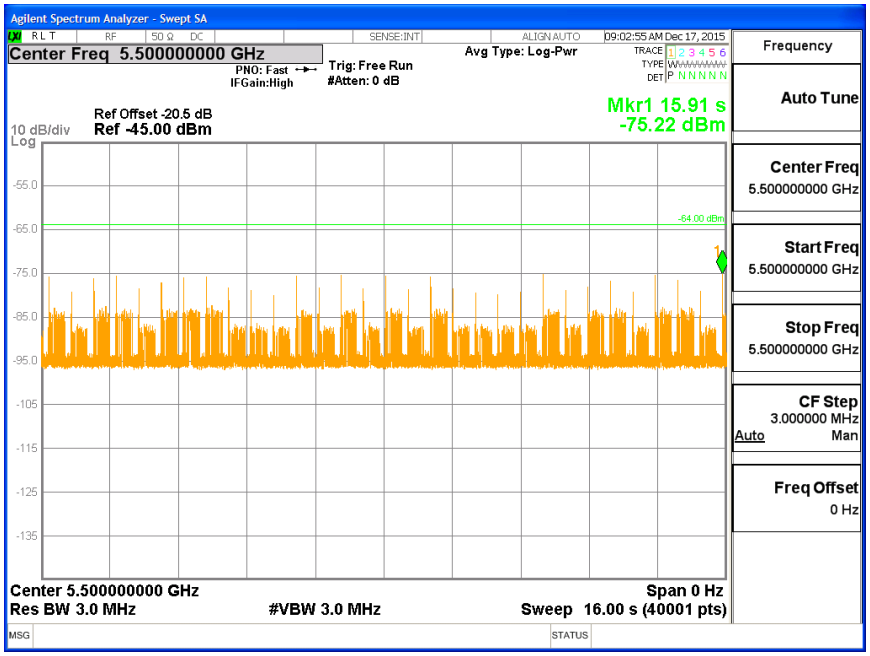
RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER

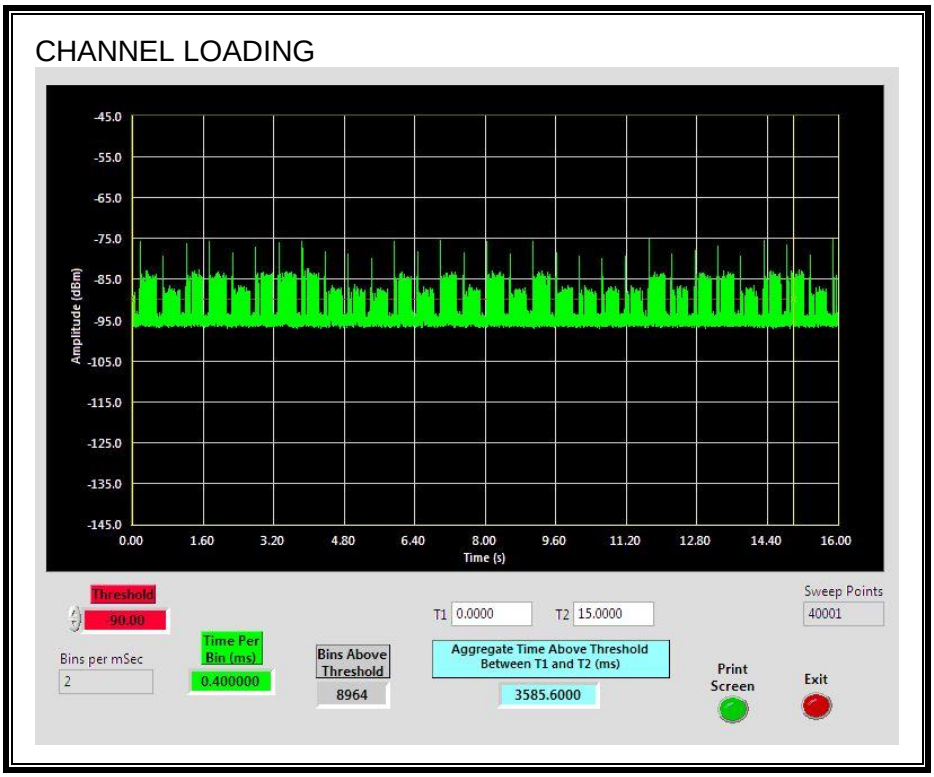


TRAFFIC

SLAVE TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 35.85%

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).

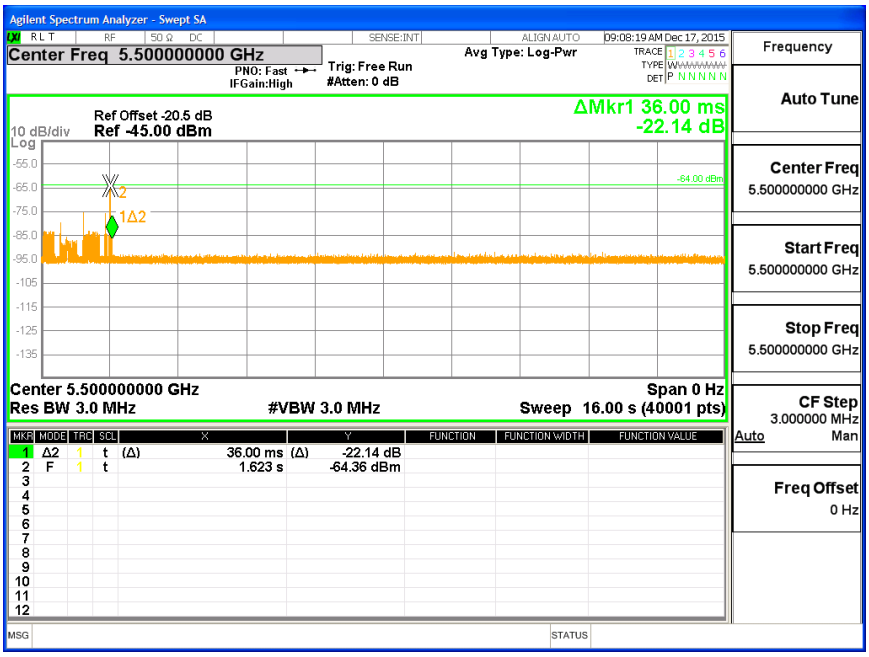
RESULTS

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

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

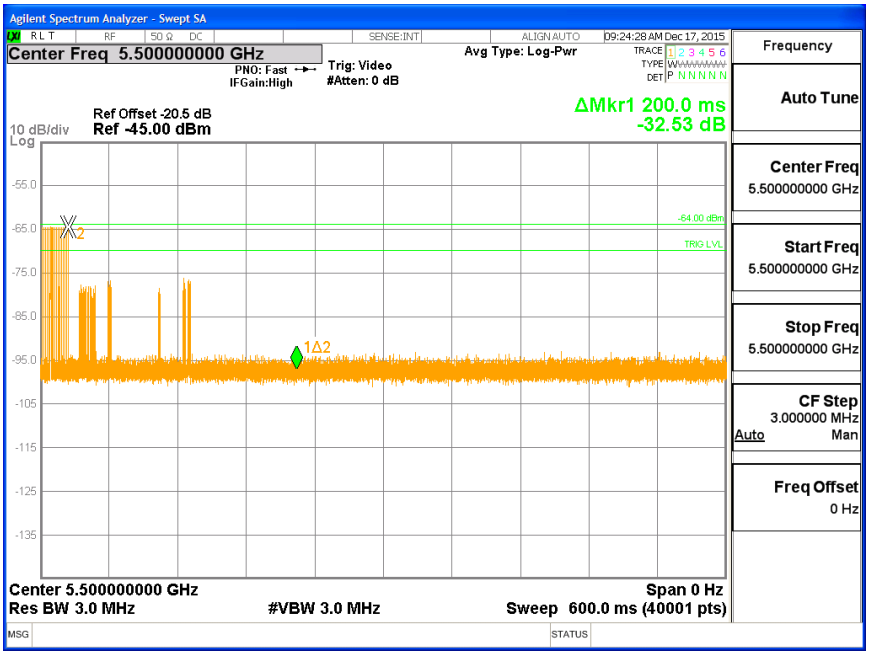
MOVE TIME

MOVE TIME



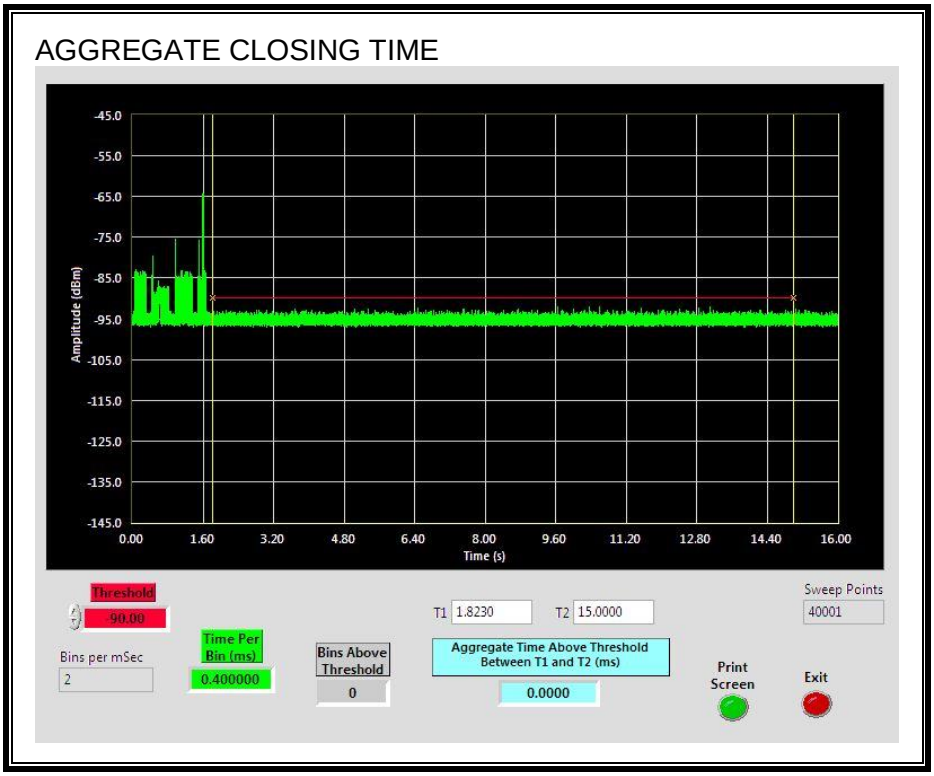
CHANNEL CLOSING TIME

CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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

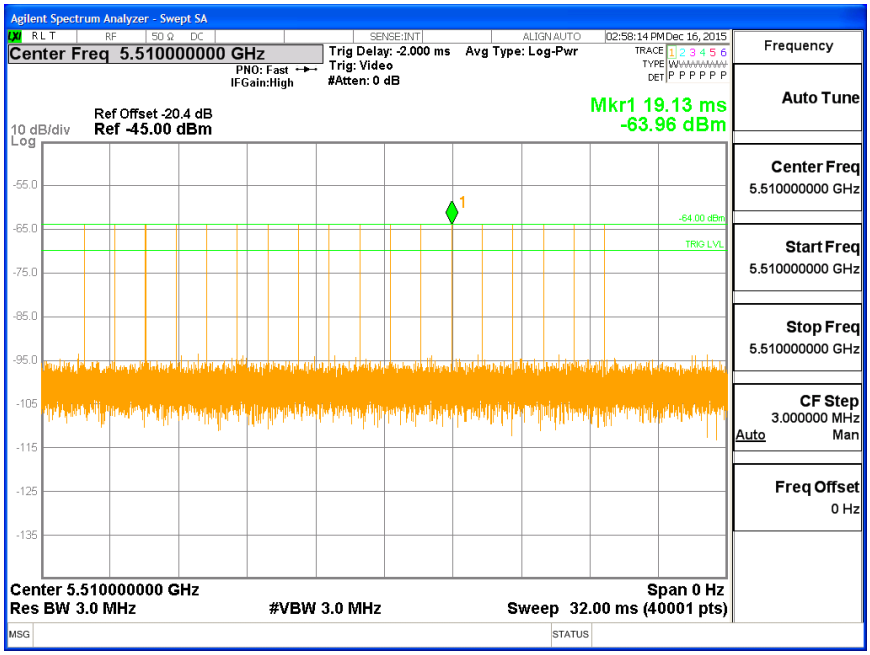
11.5.1. TEST CHANNEL

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

11.5.2. RADAR WAVEFORM AND TRAFFIC

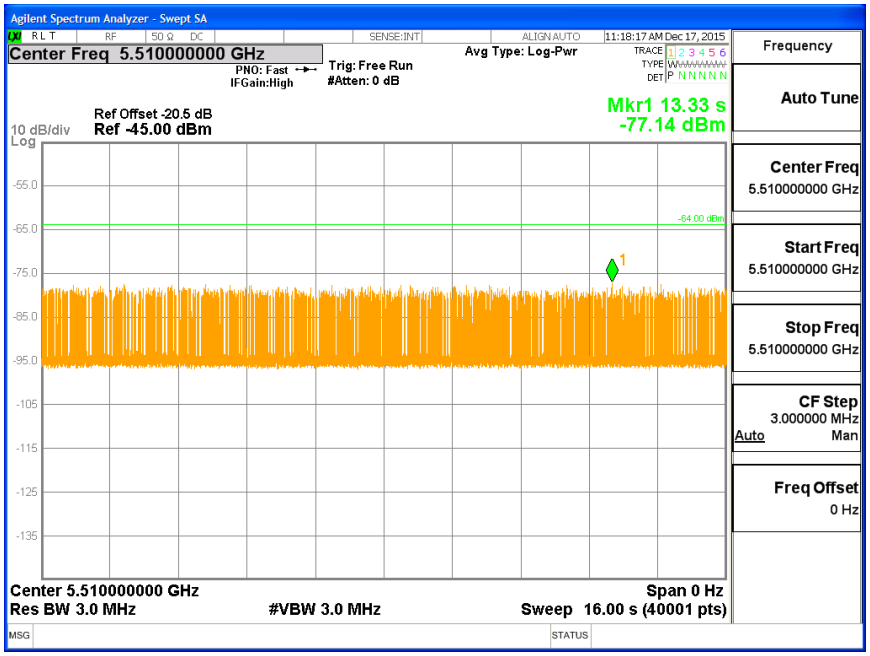
RADAR WAVEFORM

SHORT PULSE RADAR TYPE 0 AT MASTER

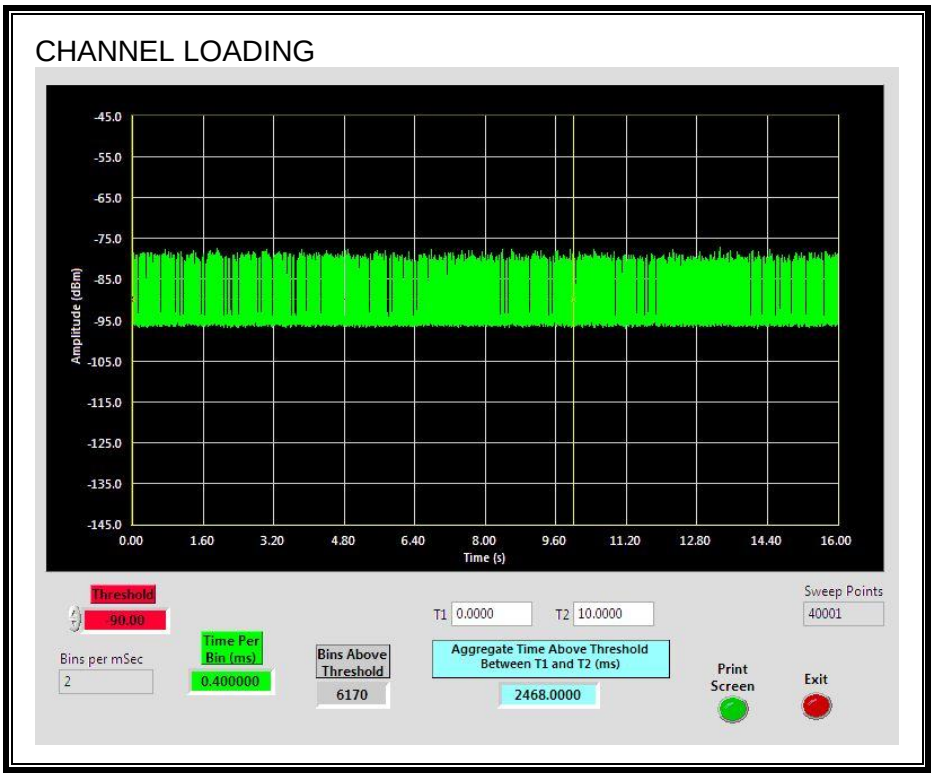


TRAFFIC

SLAVE TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.68%

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).

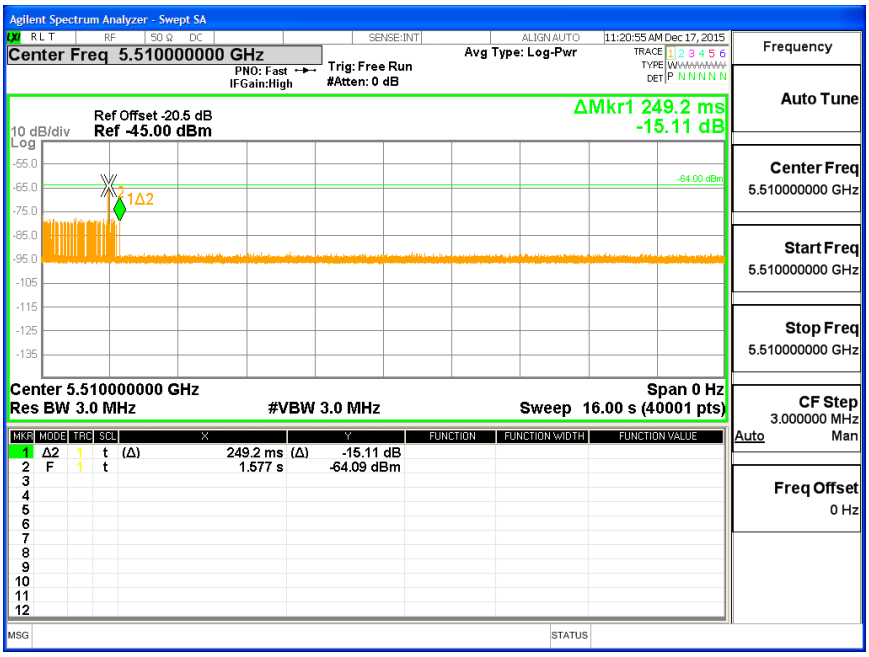
RESULTS

Channel Move Time (sec)	Limit (sec)
0.2492	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
1.6	60

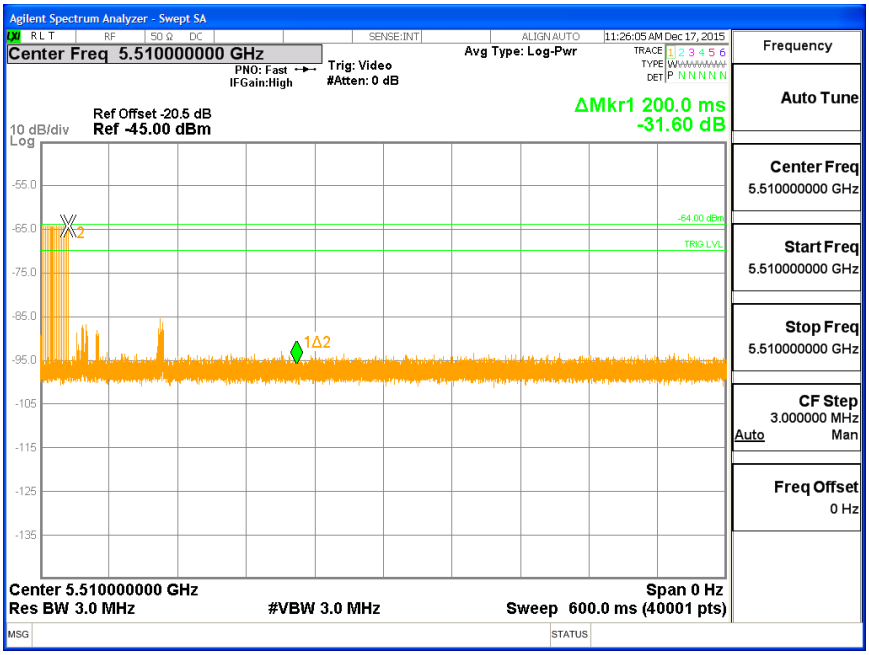
MOVE TIME

MOVE TIME



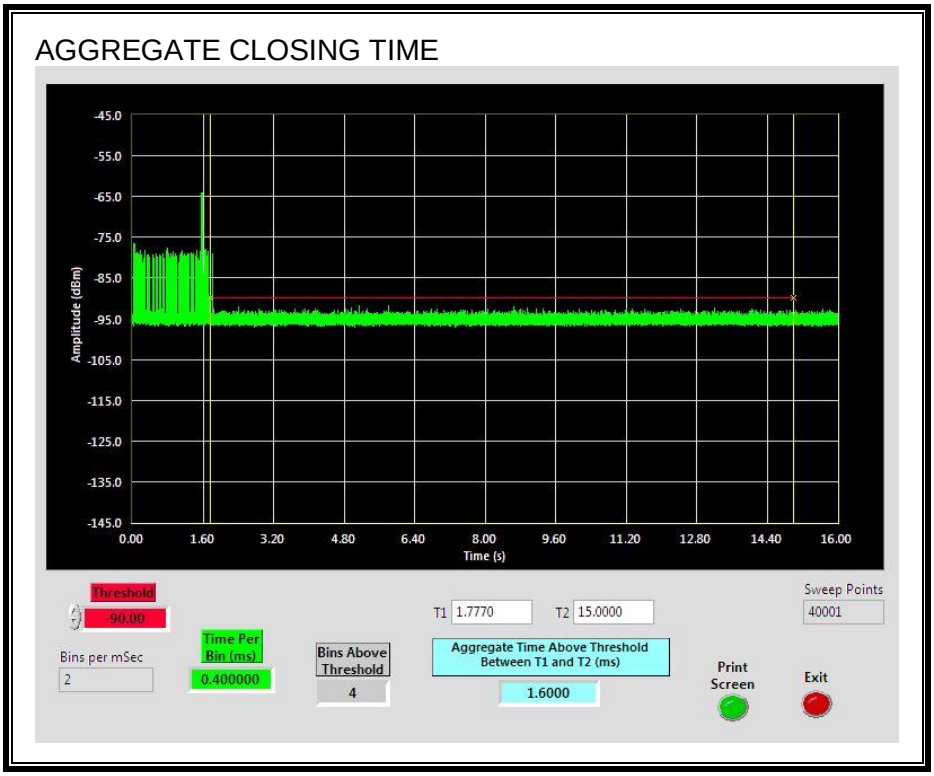
CHANNEL CLOSING TIME

CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



11.5.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

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

10-MINUTE CLIENT Tx MONITORING PERIOD