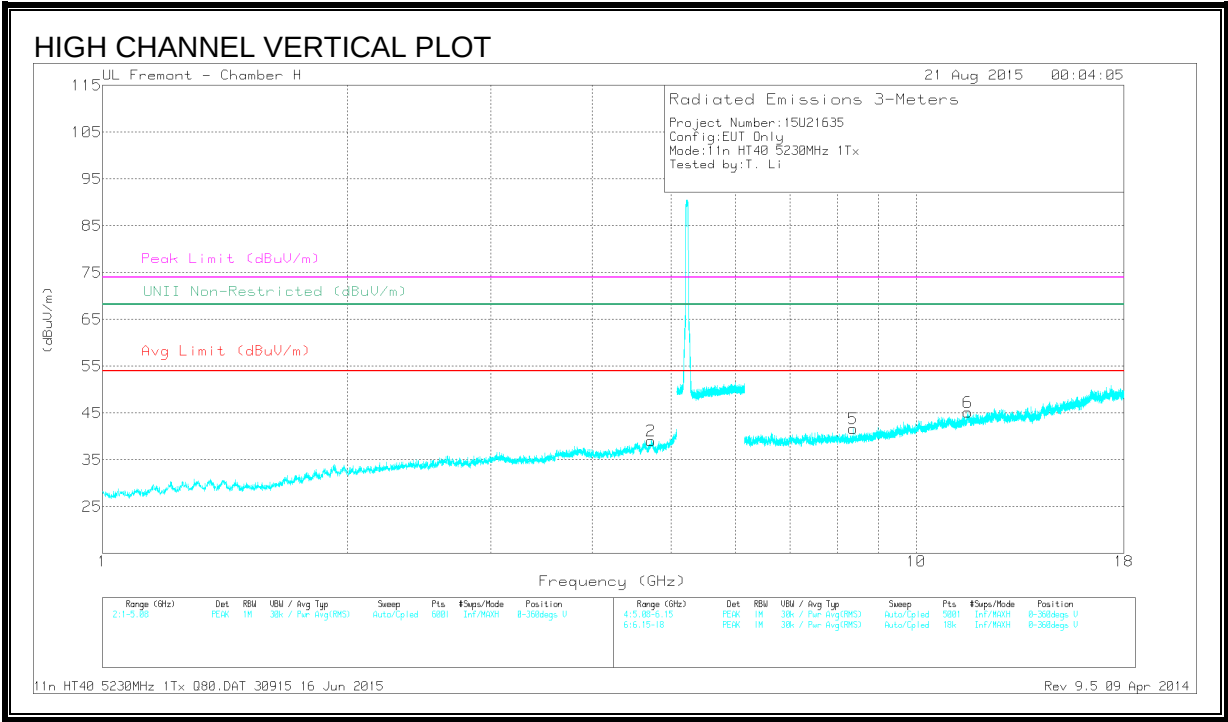
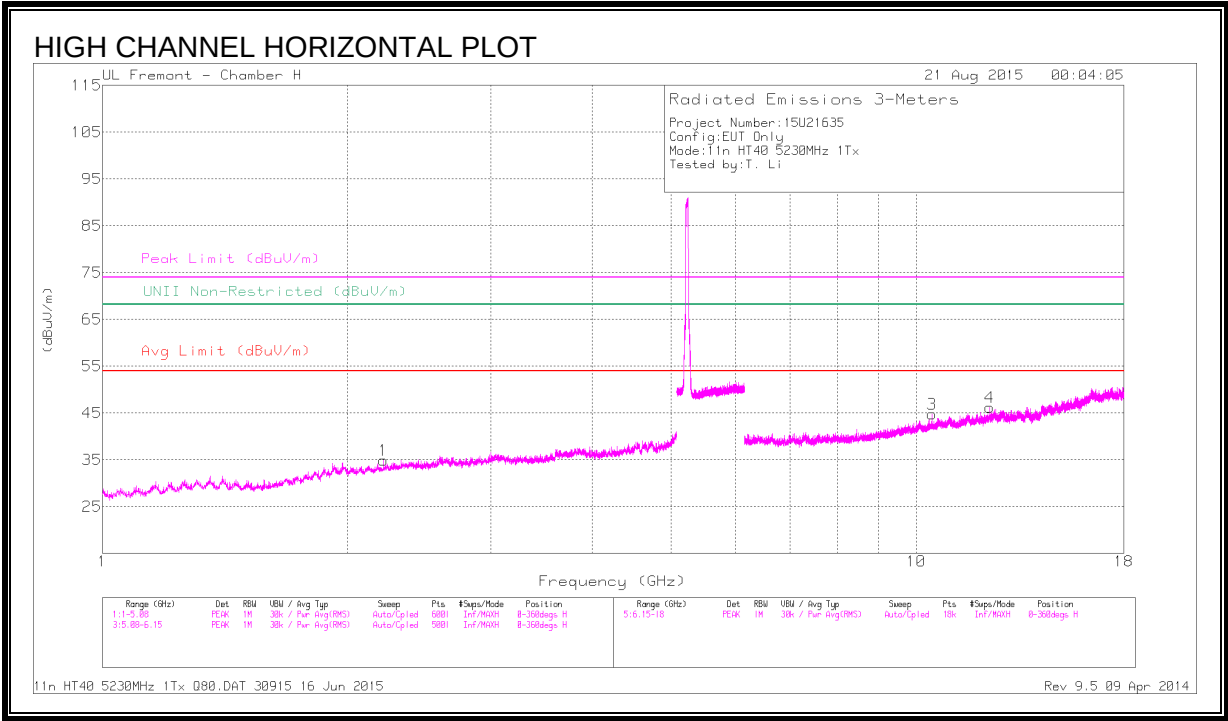


HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.214	42.34	PK-U	31.4	-32.5	41.24	-	-	74	-32.76	-	-	157	195	H
	* 2.214	30.88	ADR	31.4	-32.5	29.78	54	-24.22	-	-	-	-	157	195	H
2	* 4.723	40.61	PK-U	34.2	-28.9	45.91	-	-	74	-28.09	-	-	195	127	V
	* 4.726	29.32	ADR	34.2	-28.9	34.62	54	-19.38	-	-	-	-	195	127	V
4	* 12.318	37.67	PK-U	38.9	-24.2	52.37	-	-	74	-21.63	-	-	96	187	H
	* 12.315	26.16	ADR	38.9	-24.2	40.86	54	-13.14	-	-	-	-	96	187	H
5	* 8.365	38.2	PK-U	35.7	-26.8	47.1	-	-	74	-26.9	-	-	302	140	V
	* 8.364	27.42	ADR	35.7	-26.8	36.32	54	-17.68	-	-	-	-	302	140	V
6	* 11.578	35.78	PK-U	38.1	-22.2	51.68	-	-	74	-22.32	-	-	281	110	V
	* 11.581	24.77	ADR	38.1	-22.3	40.57	54	-13.43	-	-	-	-	281	110	V
3	10.466	36.83	PK-U	37.5	-24.4	49.93	-	-	-	-	68.2	-18.27	300	165	H

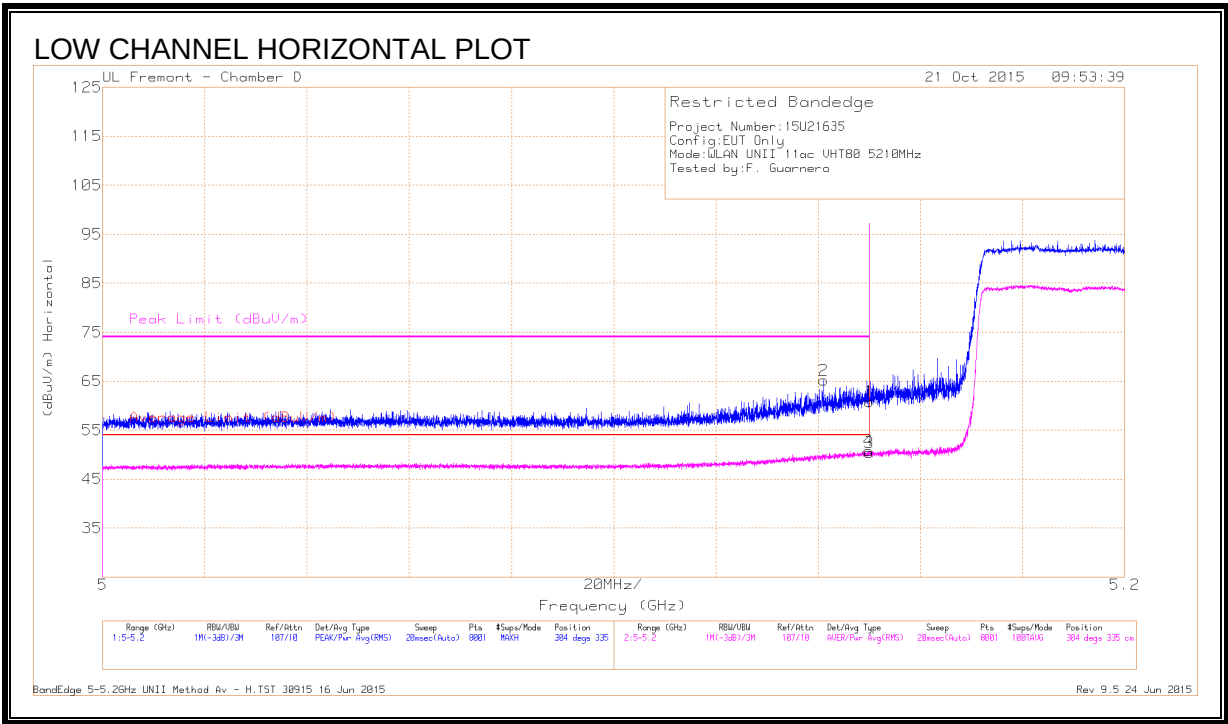
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.3. 802.11ac VHT80 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL, CH 42)



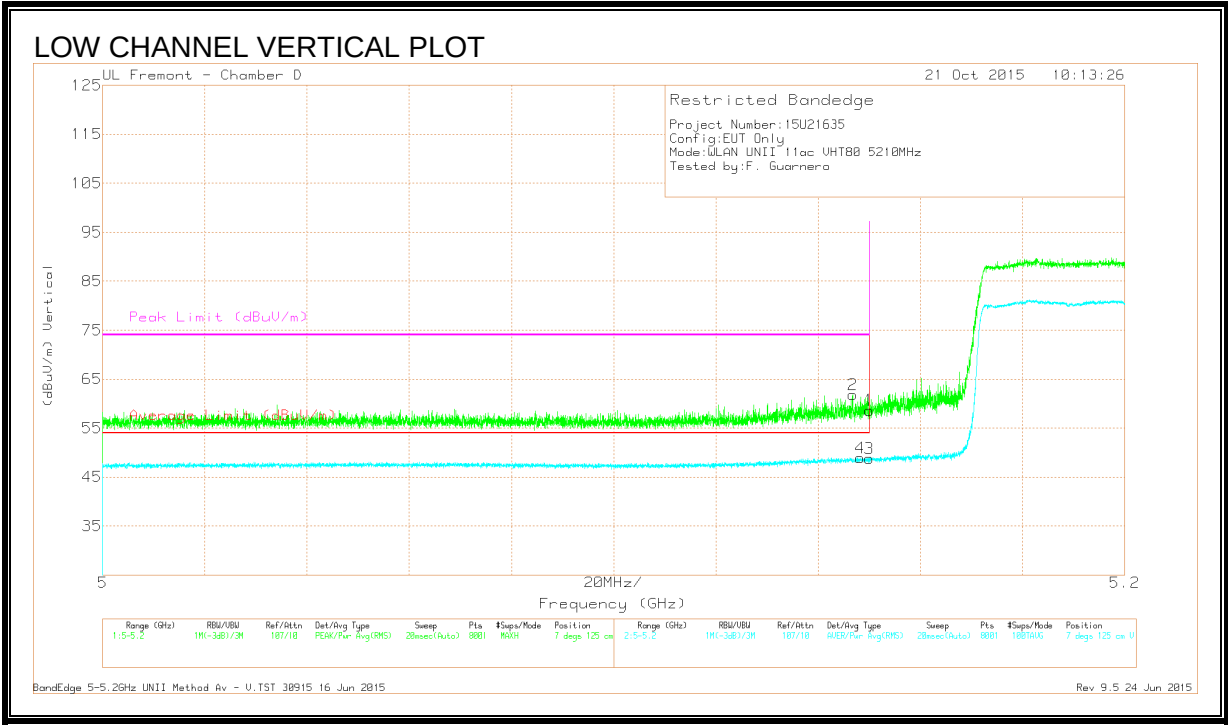
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45	Pk	34.3	-18.5	0	60.8	-	-	74	-13.2	304	335	H
2	* 5.141	49.39	Pk	34.3	-18.5	0	65.19	-	-	74	-8.81	304	335	H
3	* 5.15	34.42	RMS	34.3	-18.5	.16	50.38	54	-3.62	-	-	304	335	H
4	* 5.15	34.79	RMS	34.3	-18.5	.16	50.75	54	-3.25	-	-	304	335	H

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

Pk - Peak detector

RMS - RMS detection



DATA

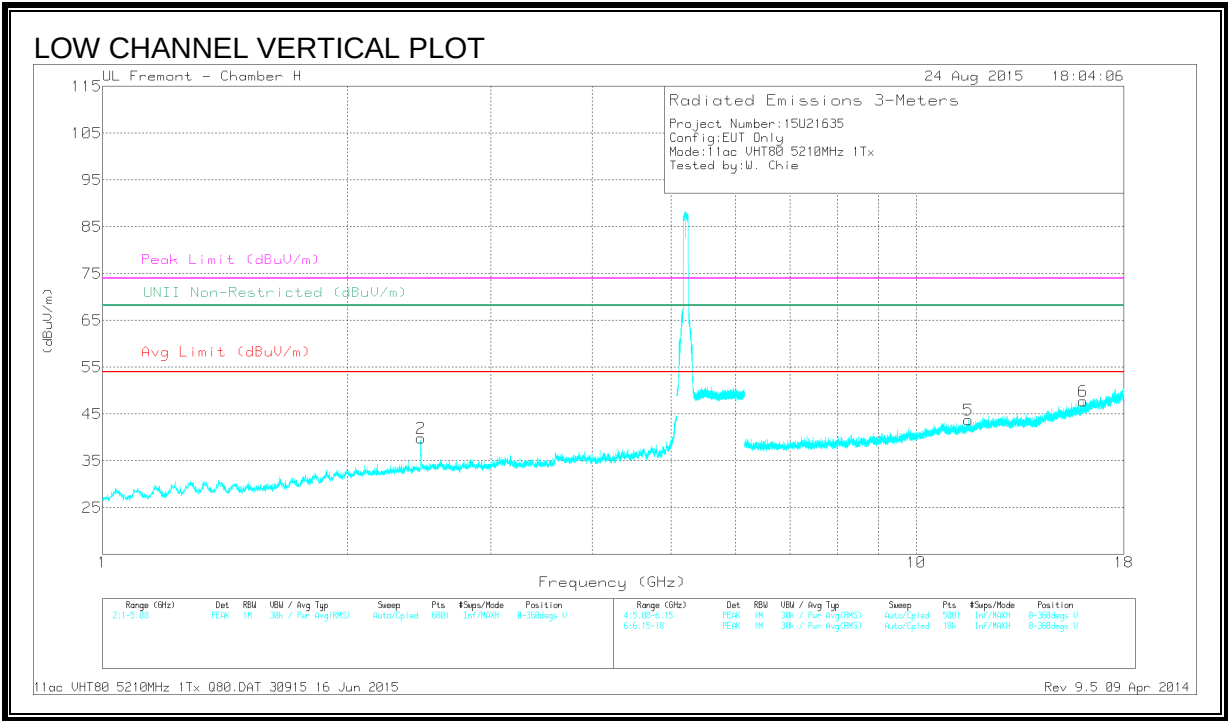
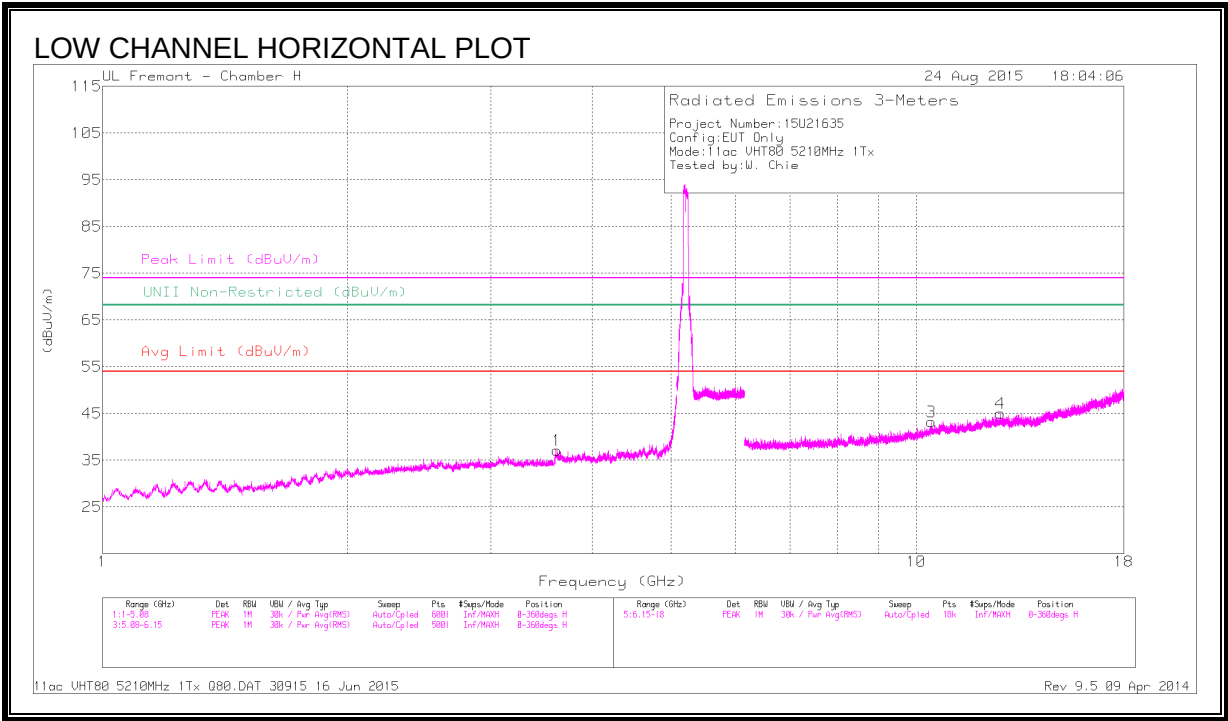
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Ftr r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.147	46.05	Pk	34.3	-18.5	0	61.85	-	-	74	-12.15	7	125	V
4	* 5.148	33	RMS	34.3	-18.5	.16	48.96	54	-5.04	-	-	7	125	V
1	* 5.15	42.87	Pk	34.3	-18.5	0	58.67	-	-	74	-15.33	7	125	V
3	* 5.15	32.8	RMS	34.3	-18.5	.16	48.76	54	-5.24	-	-	7	125	V

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

Pk - Peak detector

RMS - RMS detection

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.608	41.93	PK-U	33	-31.7	0	43.23	-	-	74	-30.77	-	-	232	303	H
	* 3.608	30.14	ADR	33	-31.7	.16	31.59	54	-22.41	-	-	-	-	232	303	H
4	* 12.689	36.79	PK-U	39.4	-24.5	0	51.69	-	-	74	-22.31	-	-	313	144	H
	* 12.688	24.58	ADR	39.4	-24.5	.16	39.63	54	-14.37	-	-	-	-	313	144	H
5	* 11.591	35.7	PK-U	38	-24	0	49.7	-	-	74	-24.3	-	-	104	294	V
	* 11.592	24.23	ADR	38	-24	.16	38.38	54	-15.62	-	-	-	-	104	294	V
6	* 16.053	35.74	PK-U	41.1	-22.7	0	54.14	-	-	74	-19.86	-	-	356	113	V
	* 16.053	23.49	ADR	41.1	-22.7	.16	42.04	54	-11.96	-	-	-	-	356	113	V
2	2.463	47.21	PK-U	32.3	-33.4	0	46.11	-	-	-	-	68.2	-22.09	263	183	V
3	10.44	36.67	PK-U	37.4	-25.5	0	48.57	-	-	-	-	68.2	-19.63	235	127	H

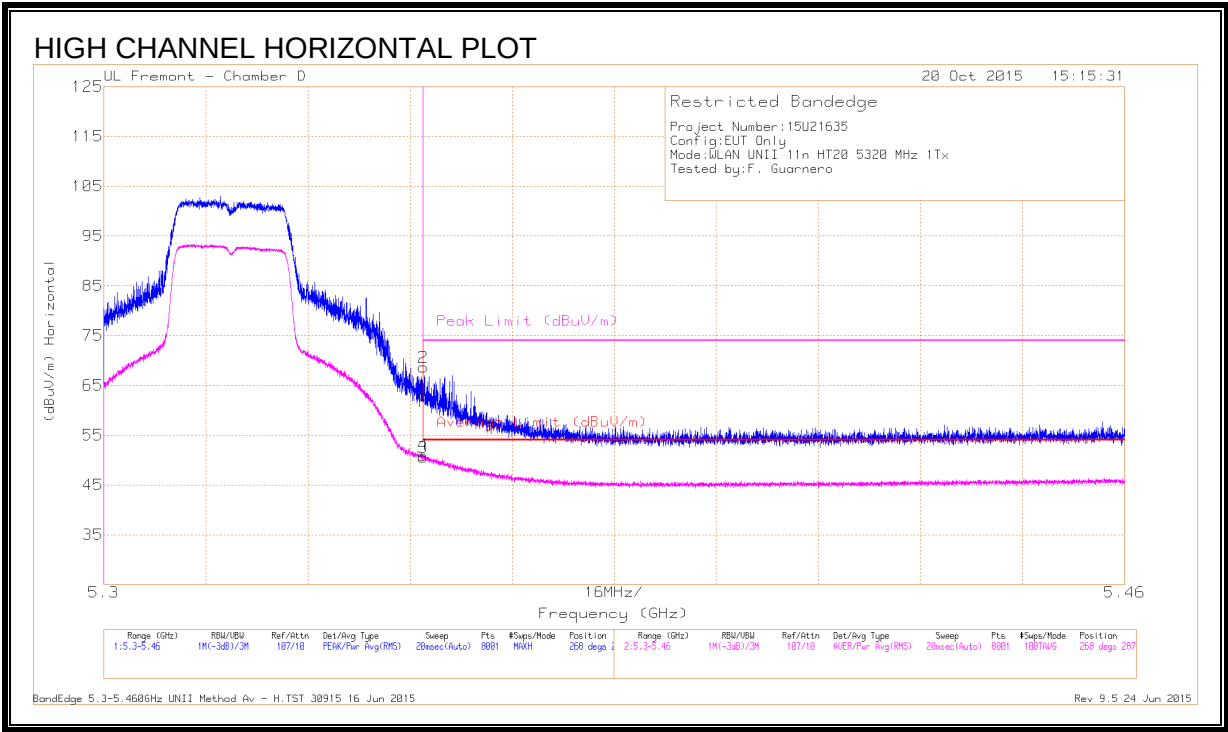
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.4. 802.11n HT20 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (HIGH CHANNEL)



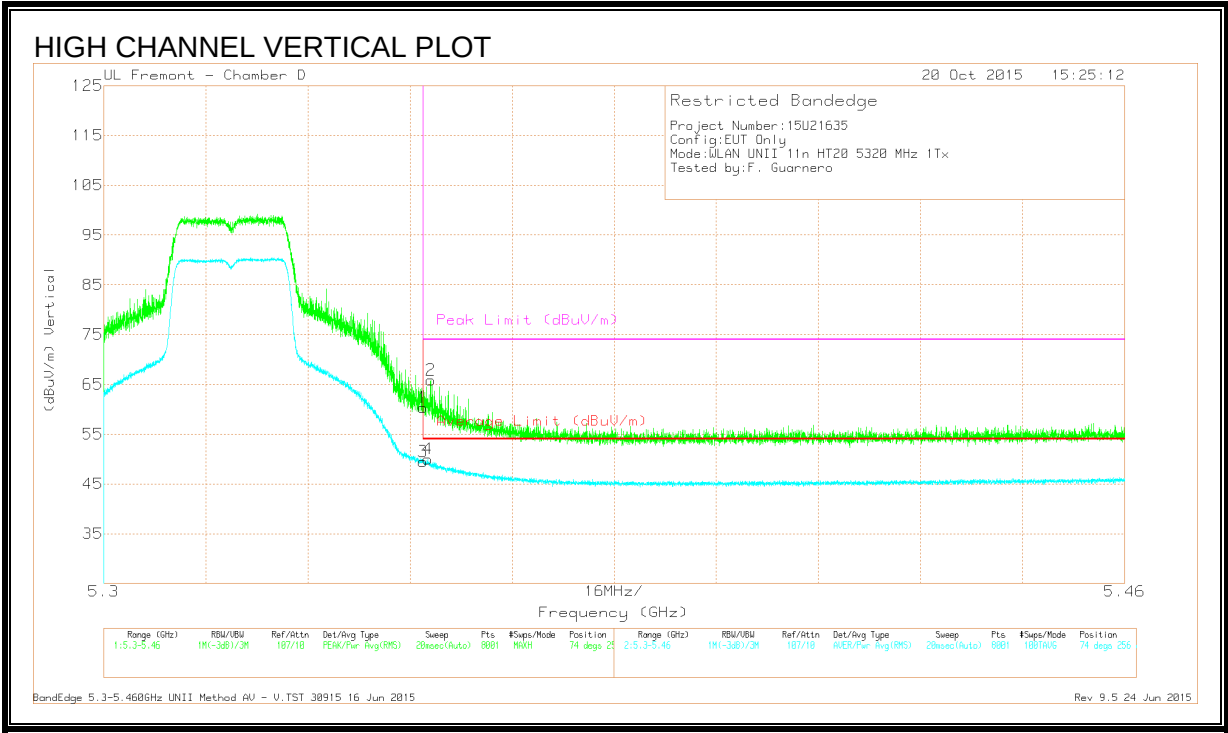
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	47.11	Pk	34.4	-18.5	63.01	-	-	74	-10.99	268	287	H
2	* 5.35	52.75	Pk	34.4	-18.5	68.65	-	-	74	-5.35	268	287	H
3	* 5.35	34.65	RMS	34.4	-18.5	50.55	54	-3.45	-	-	268	287	H
4	* 5.35	35.1	RMS	34.4	-18.5	51	54	-3	-	-	268	287	H

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

Pk - Peak detector

RMS - RMS detection



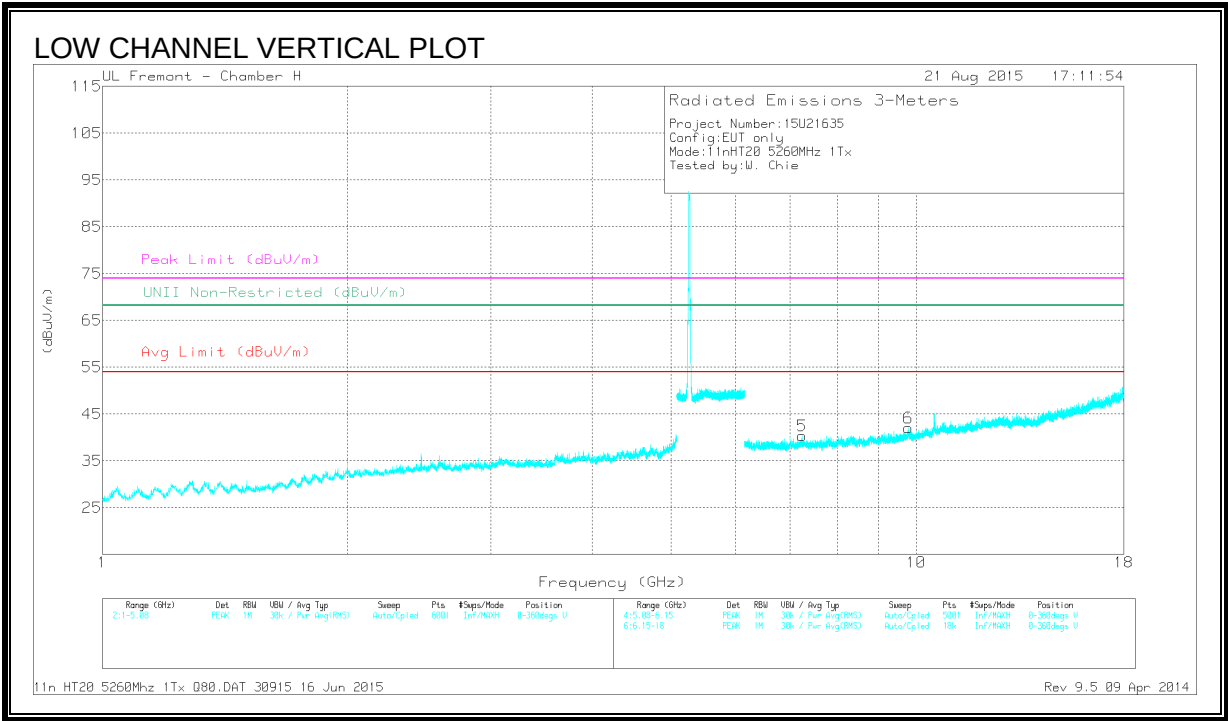
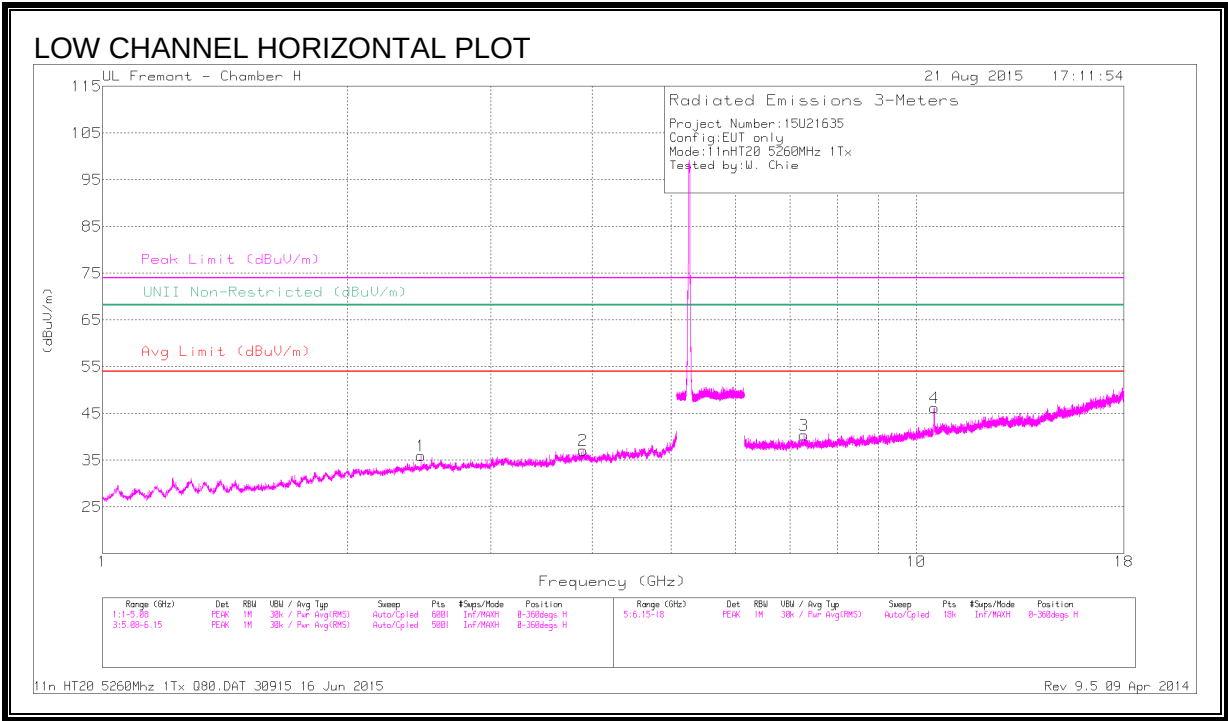
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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
1	* 5.35	44.47	Pk	34.4	-18.5	60.37	-	-	74	-13.63	74	256	V
3	* 5.35	33.61	RMS	34.4	-18.5	49.51	54	-4.49	-	-	74	256	V
2	* 5.351	49.98	Pk	34.4	-18.5	65.88	-	-	74	-8.12	74	256	V
4	* 5.351	34.12	RMS	34.4	-18.5	50.02	54	-3.98	-	-	74	256	V

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

Pk - Peak detector

RMS - RMS detection



DATA

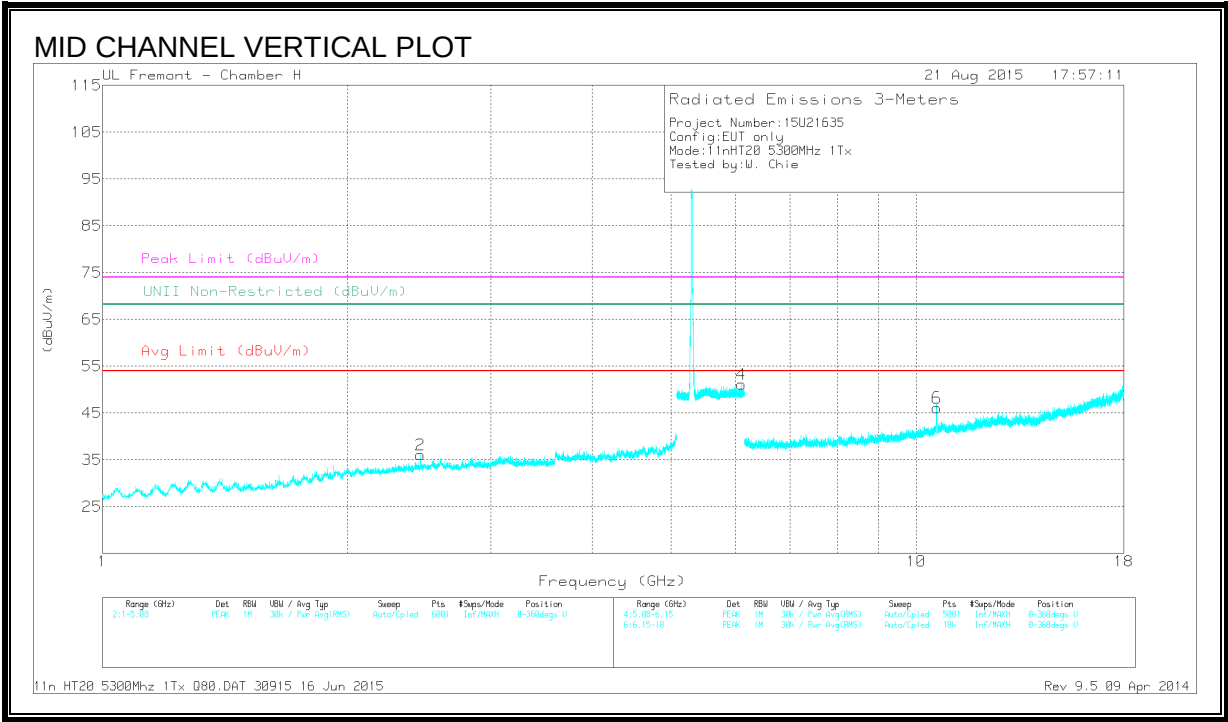
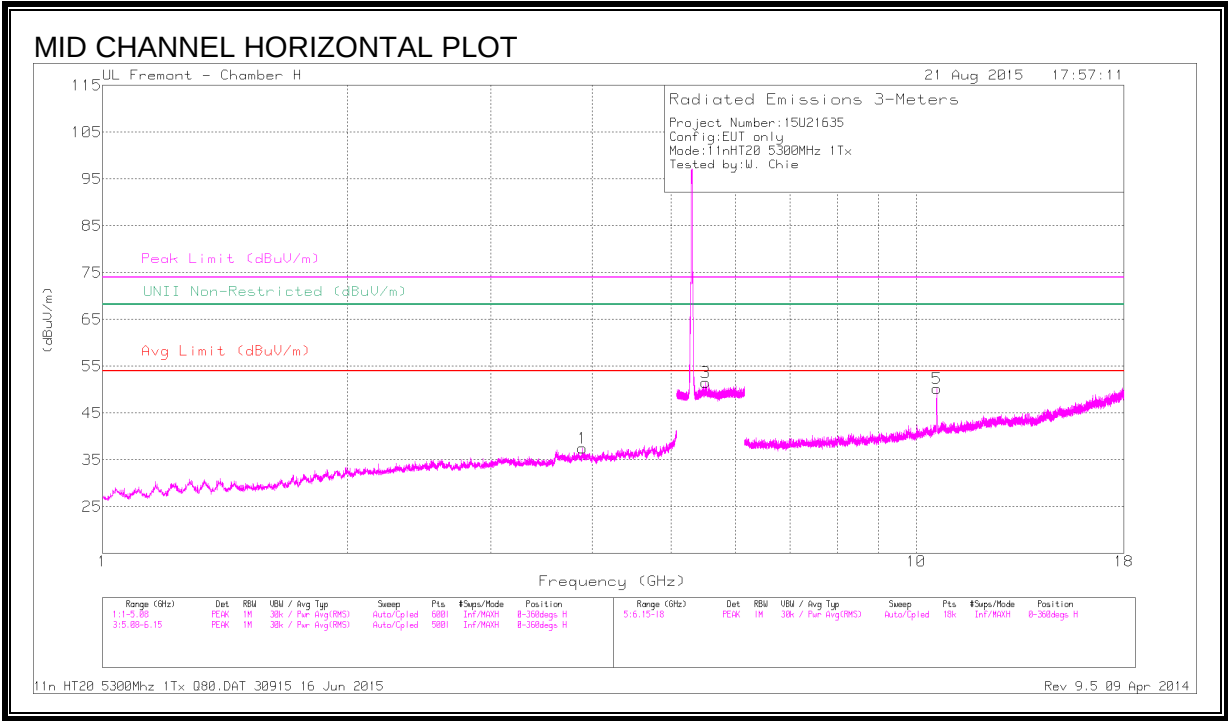
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.898	42.6	PK-U	33.6	-31.8	44.4	-	-	74	-29.6	-	-	68	200	H
	* 3.897	30.8	ADR	33.6	-31.8	32.6	54	-21.4	-	-	-	-	68	200	H
3	* 7.277	39.1	PK-U	35.9	-28.7	46.3	-	-	74	-27.7	-	-	180	177	H
	* 7.277	27.7	ADR	35.9	-28.7	34.9	54	-19.1	-	-	-	-	180	177	H
1	2.464	42.51	PK-U	32.3	-33.4	41.41	-	-	-	-	68.2	-26.79	291	111	H
5	7.242	38.95	PK-U	35.9	-28	46.85	-	-	-	-	68.2	-21.35	180	197	V
6	9.781	37.06	PK-U	36.8	-25.1	48.76	-	-	-	-	68.2	-19.44	156	225	V
4	10.53	35.93	PK-U	37.5	-24.6	48.83	-	-	-	-	68.2	-19.37	159	215	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

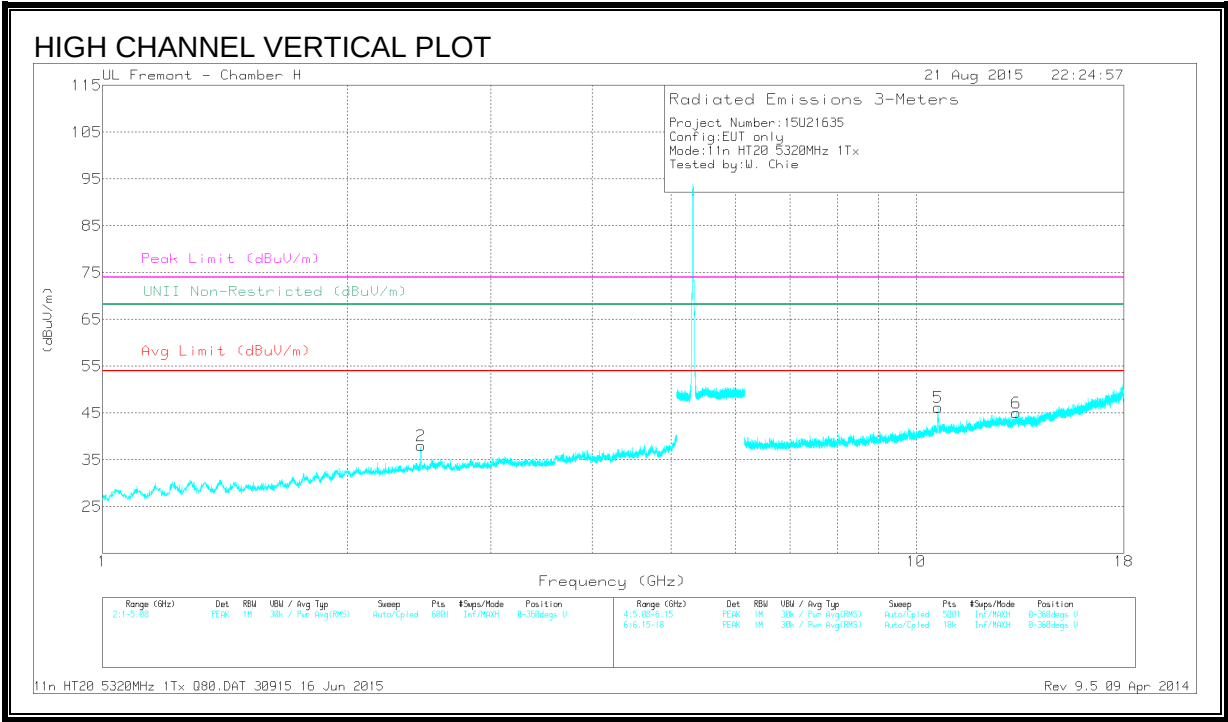
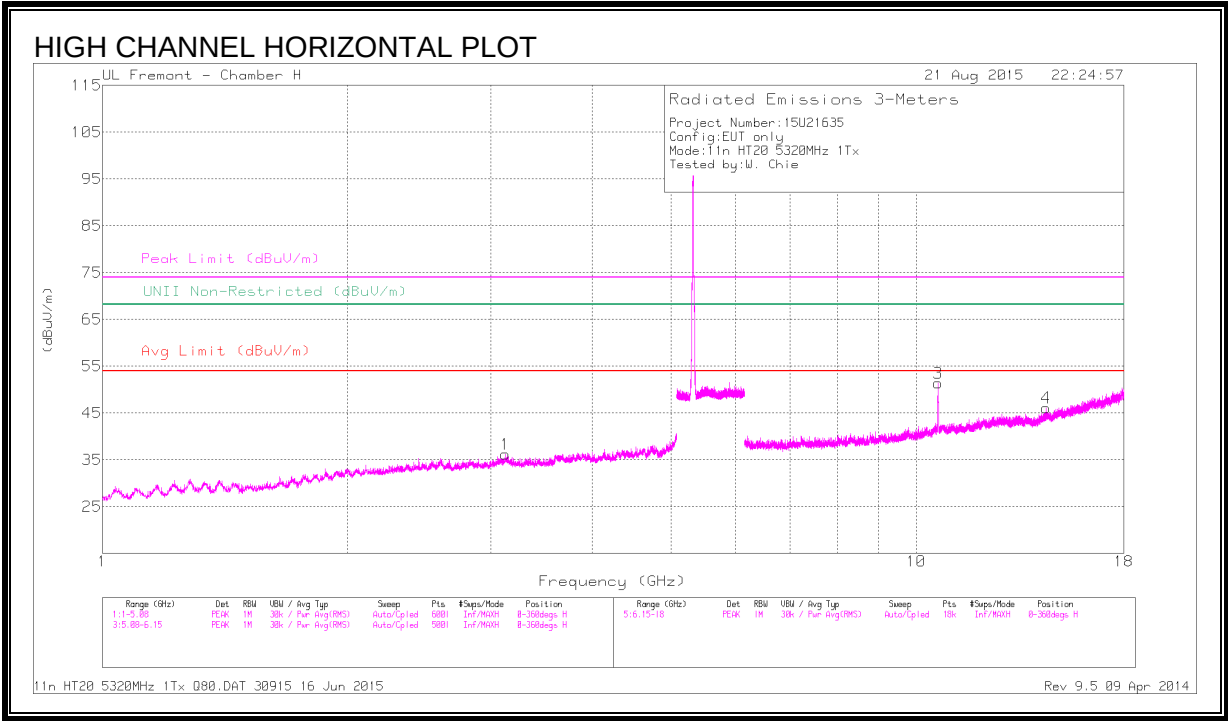
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.89	42.55	PK-U	33.6	-31.8	44.35	-	-	74	-29.65	-	-	189	352	H
	* 3.891	30.73	ADR	33.6	-31.8	32.53	54	-21.47	-	-	-	-	189	352	H
5	* 10.602	48.84	PK-U	37.7	-24.8	61.74	-	-	74	-12.26	-	-	121	101	H
	* 10.601	33.83	ADR	37.7	-24.7	46.83	54	-7.17	-	-	-	-	121	101	H
6	* 10.61	44.46	PK-U	37.7	-24.7	57.46	-	-	74	-16.54	-	-	11	101	V
	* 10.608	29.84	ADR	37.7	-24.8	42.74	54	-11.26	-	-	-	-	11	101	V
2	2.459	42.85	PK-U	32.3	-33.3	41.85	-	-	-	-	68.2	-26.35	222	309	V
3	5.51	43.58	PK-U	35.4	-21.3	57.68	-	-	-	-	68.2	-10.52	192	260	H
4	6.102	43.62	PK-U	35.4	-21	58.02	-	-	-	-	68.2	-10.18	213	234	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 10.642	48.51	PK-U	37.7	-25.2	61.01	-	-	74	-12.99	-	-	299	100	H
	* 10.642	34.38	ADR	37.7	-25.2	46.88	54	-7.12	-	-	-	-	299	100	H
5	* 10.64	44.83	PK-U	37.7	-25.2	57.33	-	-	74	-16.67	-	-	207	206	V
	* 10.64	31.27	ADR	37.7	-25.2	43.77	54	-10.23	-	-	-	-	207	206	V
6	* 13.28	36.38	PK-U	39.4	-24.8	50.98	-	-	74	-23.02	-	-	57	303	V
	* 13.278	24.94	ADR	39.4	-24.8	39.54	54	-14.46	-	-	-	-	57	303	V
2	2.465	43.93	PK-U	32.3	-33.4	42.83	-	-	-	-	68.2	-25.37	247	136	V
1	3.128	41.57	PK-U	32.9	-31.6	42.87	-	-	-	-	68.2	-25.33	275	114	H
4	14.447	37.12	PK-U	39.8	-24.9	52.02	-	-	-	-	68.2	-16.18	255	122	H

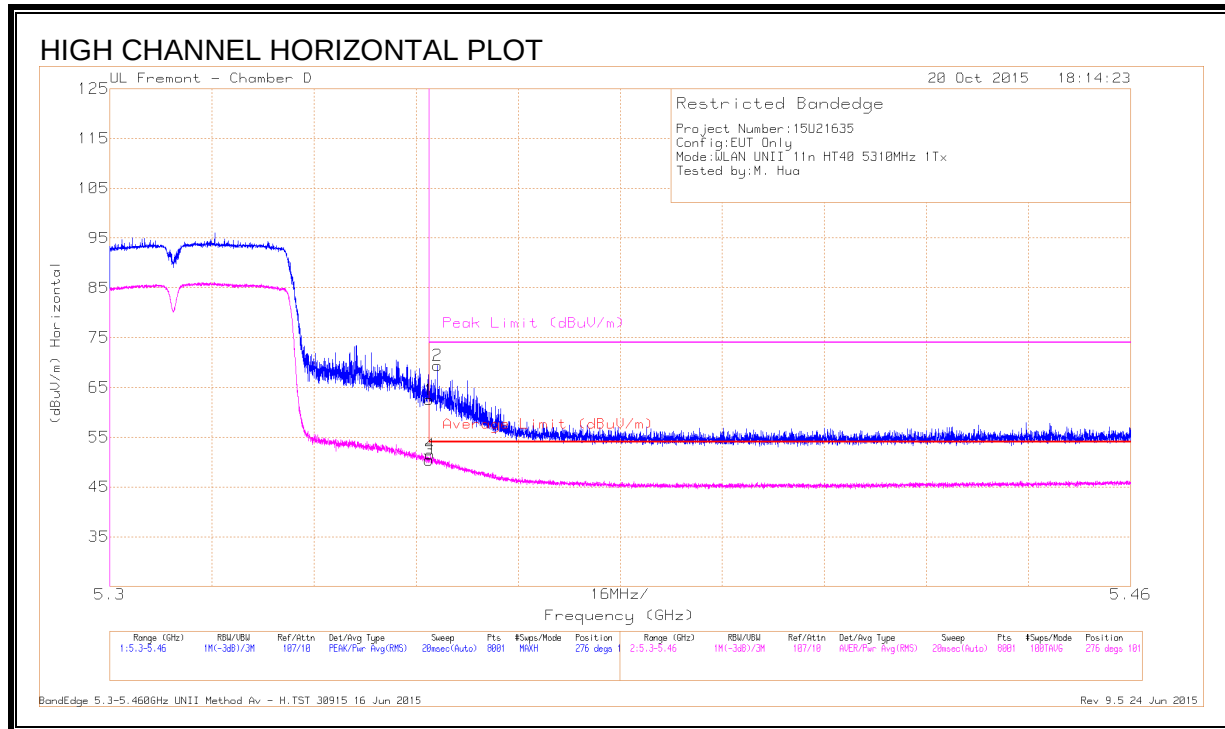
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.5. 802.11n HT40 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE.CHAIN 0 (HIGH CHANNEL)



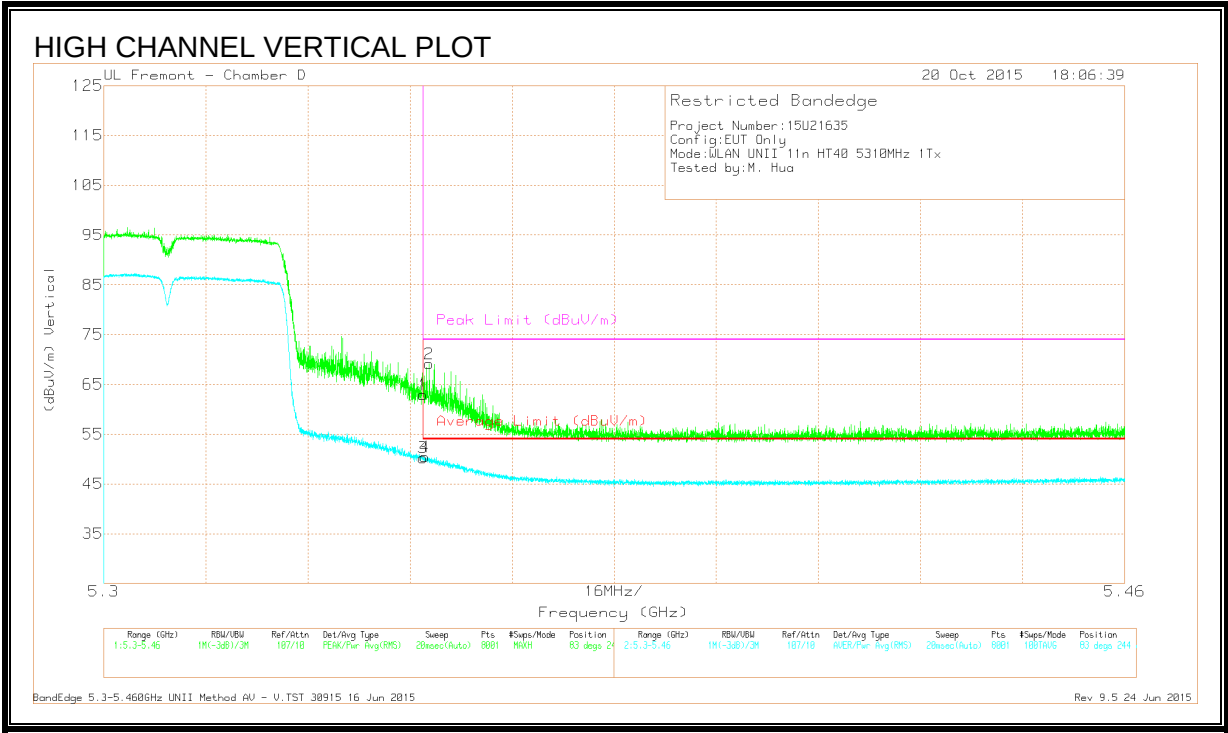
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	46.62	Pk	34.4	-18.5	0	62.52	-	-	74	-11.48	276	101	H
3	* 5.35	34.51	RMS	34.4	-18.5	0	50.41	54	-3.59	-	-	276	101	H
4	* 5.35	35.63	RMS	34.4	-18.5	0	51.53	54	-2.47	-	-	276	101	H
2	* 5.351	53.53	Pk	34.4	-18.5	0	69.43	-	-	74	-4.57	276	101	H

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

Pk - Peak detector

RMS - RMS detection



DATA

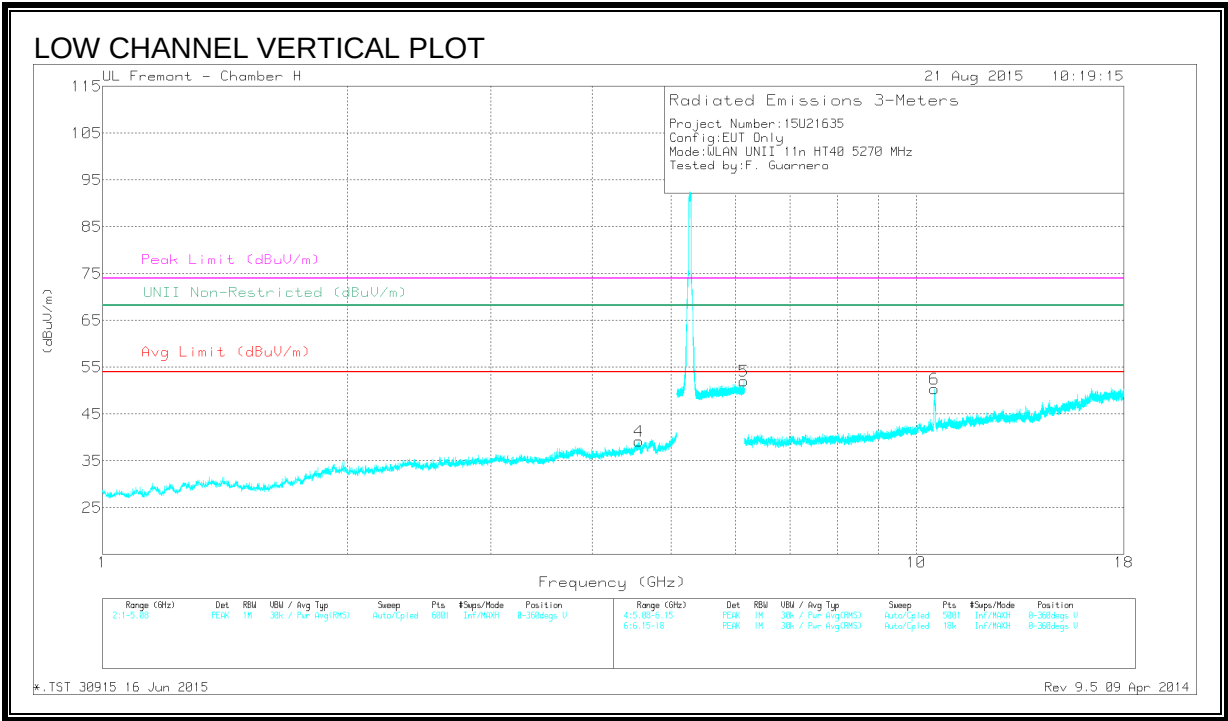
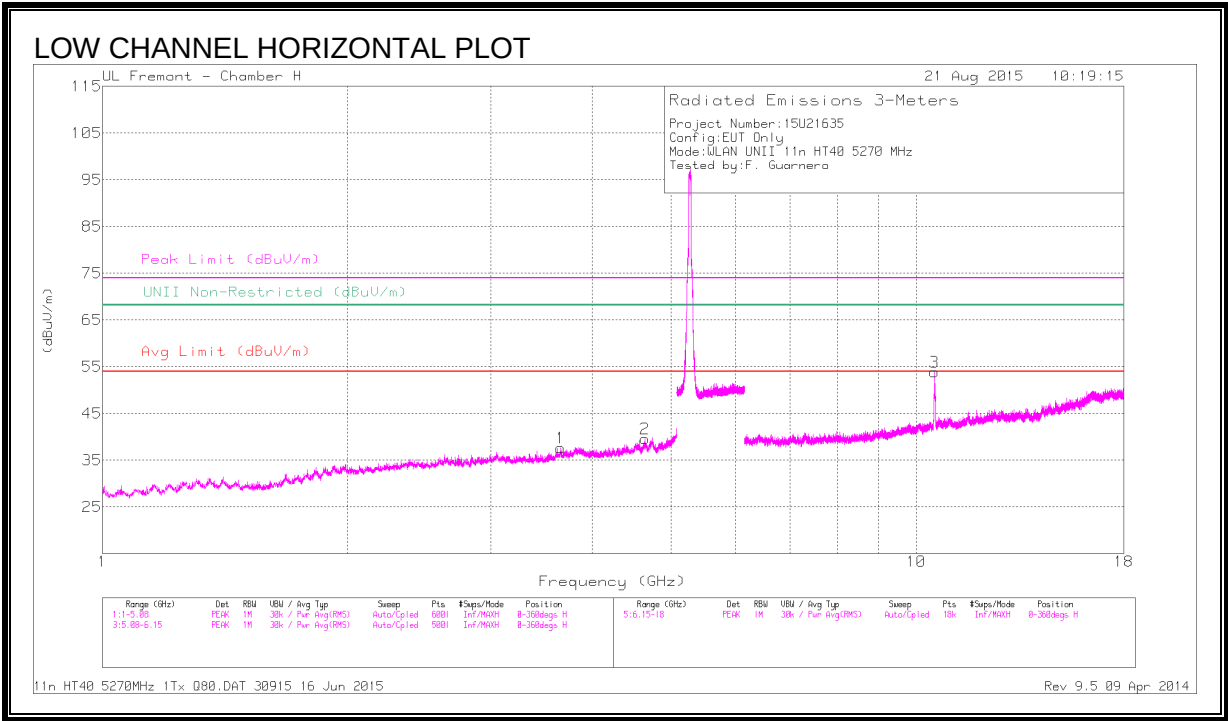
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	47.03	Pk	34.4	-18.5	0	62.93	-	-	74	-11.07	83	244	V
3	* 5.35	34.36	RMS	34.4	-18.5	0	50.26	54	-3.74	-	-	83	244	V
4	* 5.35	34.56	RMS	34.4	-18.5	0	50.46	54	-3.54	-	-	83	244	V
2	* 5.351	53.25	Pk	34.4	-18.5	0	69.15	-	-	74	-4.85	83	244	V

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

Pk - Peak detector

RMS - RMS detection

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

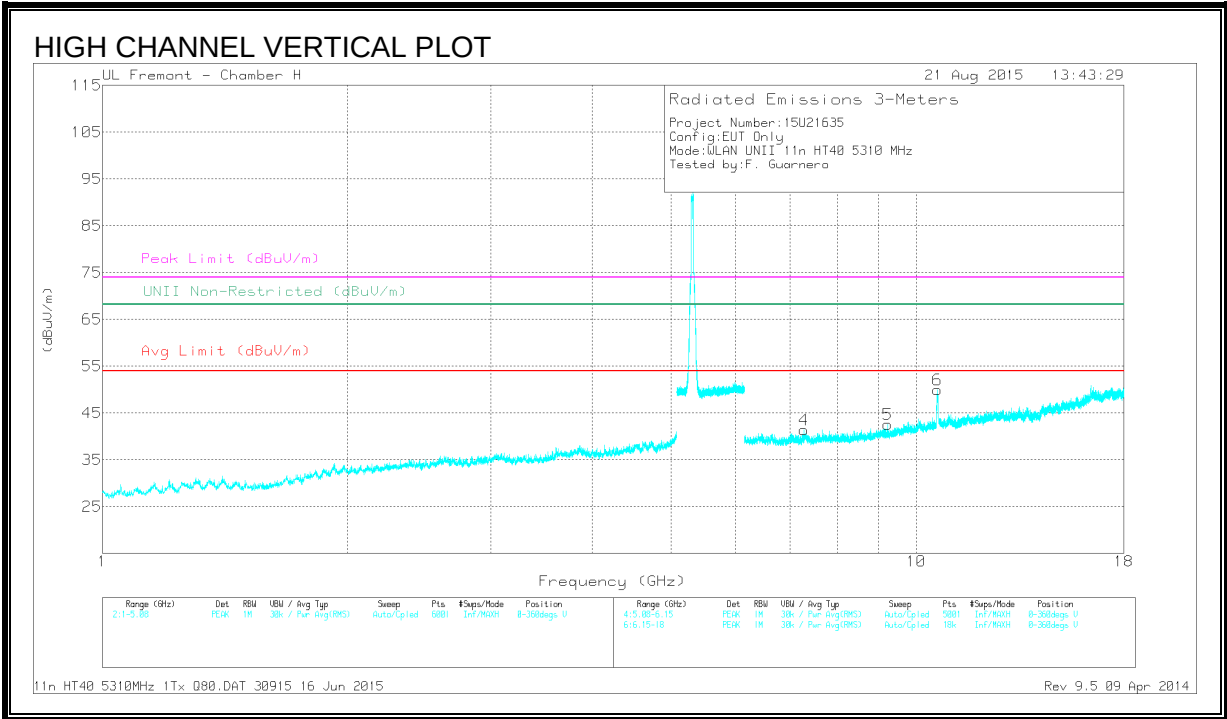
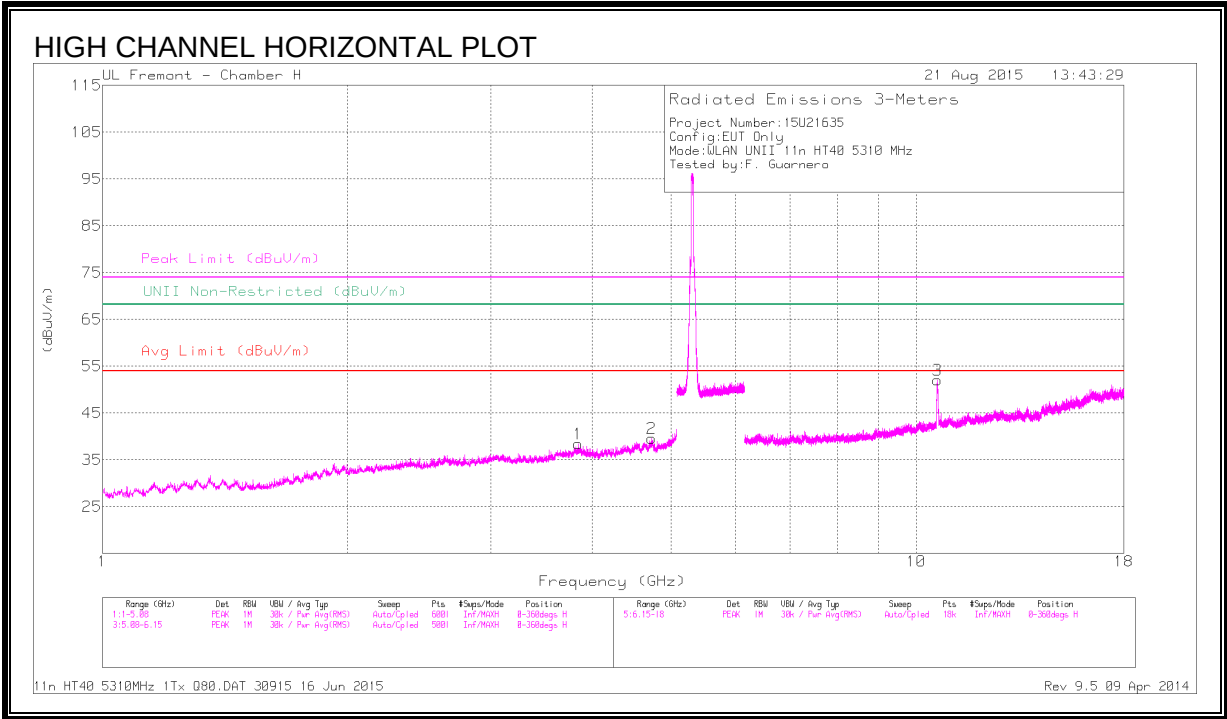
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.658	41.72	PK-U	33.1	-30.6	44.22	-	-	74	-29.78	-	-	112	194	H
	* 3.658	29.72	ADR	33.1	-30.6	32.22	54	-21.78	-	-	-	-	112	194	H
2	* 4.642	41.8	PK-U	34.1	-29.9	46	-	-	74	-28	-	-	68	371	H
	* 4.641	30.15	ADR	34.1	-29.9	34.35	54	-19.65	-	-	-	-	68	371	H
3	10.541	46.01	PK-U	37.6	-24.3	59.31	-	-	-	-	68.2	-8.89	220	103	H
4	* 4.556	41.43	PK-U	34.1	-29.3	46.23	-	-	74	-27.77	-	-	68	282	V
	* 4.556	29.61	ADR	34.1	-29.3	34.41	54	-19.59	-	-	-	-	68	282	V
5	6.14	42.51	PK-U	35.3	-19.5	58.31	-	-	-	-	68.2	-9.89	136	135	V
6	10.534	47.94	PK-U	37.6	-24.2	61.34	-	-	-	-	68.2	-6.86	4	397	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.845	40.96	PK-U	33.5	-29.9	44.56	-	-	74	-29.44	-	-	132	192	H
	* 3.847	29.56	ADR	33.5	-29.8	33.26	54	-20.74	-	-	-	-	132	192	H
2	* 4.734	40.59	PK-U	34.2	-28.9	45.89	-	-	74	-28.11	-	-	44	102	H
	* 4.734	29.09	ADR	34.2	-28.9	34.39	54	-19.61	-	-	-	-	44	102	H
3	* 10.623	46.76	PK-U	37.7	-24.4	60.06	-	-	74	-13.94	-	-	226	101	H
	* 10.619	34.82	ADR	37.7	-24.5	48.02	54	-5.98	-	-	-	-	226	101	H
4	* 7.281	38.58	PK-U	35.5	-26.6	47.48	-	-	74	-26.52	-	-	139	299	V
	* 7.279	26.66	ADR	35.5	-26.6	35.56	54	-18.44	-	-	-	-	139	299	V
5	9.234	37.62	PK-U	36.5	-25.9	48.22	-	-	-	-	68.2	-19.98	225	321	V
6	* 10.625	46.17	PK-U	37.7	-24.4	59.47	-	-	74	-14.53	-	-	49	100	V
	* 10.619	33.73	ADR	37.7	-24.5	46.93	54	-7.07	-	-	-	-	49	100	V

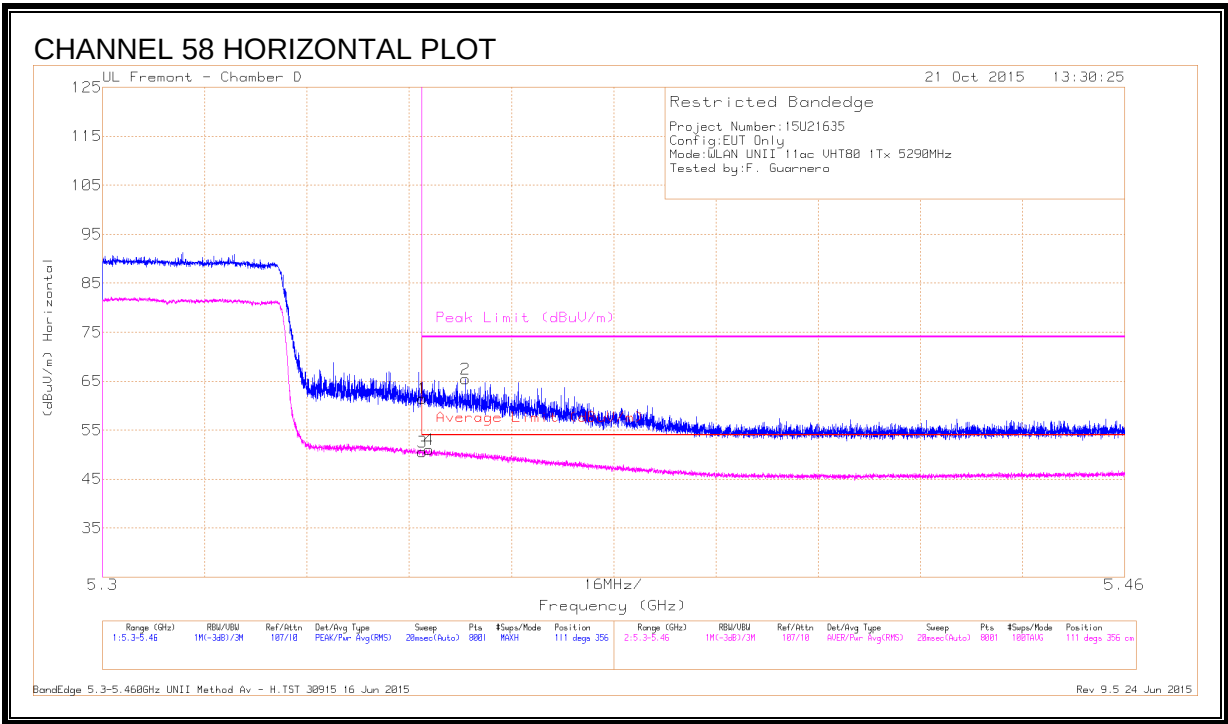
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.6. 802.11ac VHT80 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (HIGH CHANNEL, CH 58)



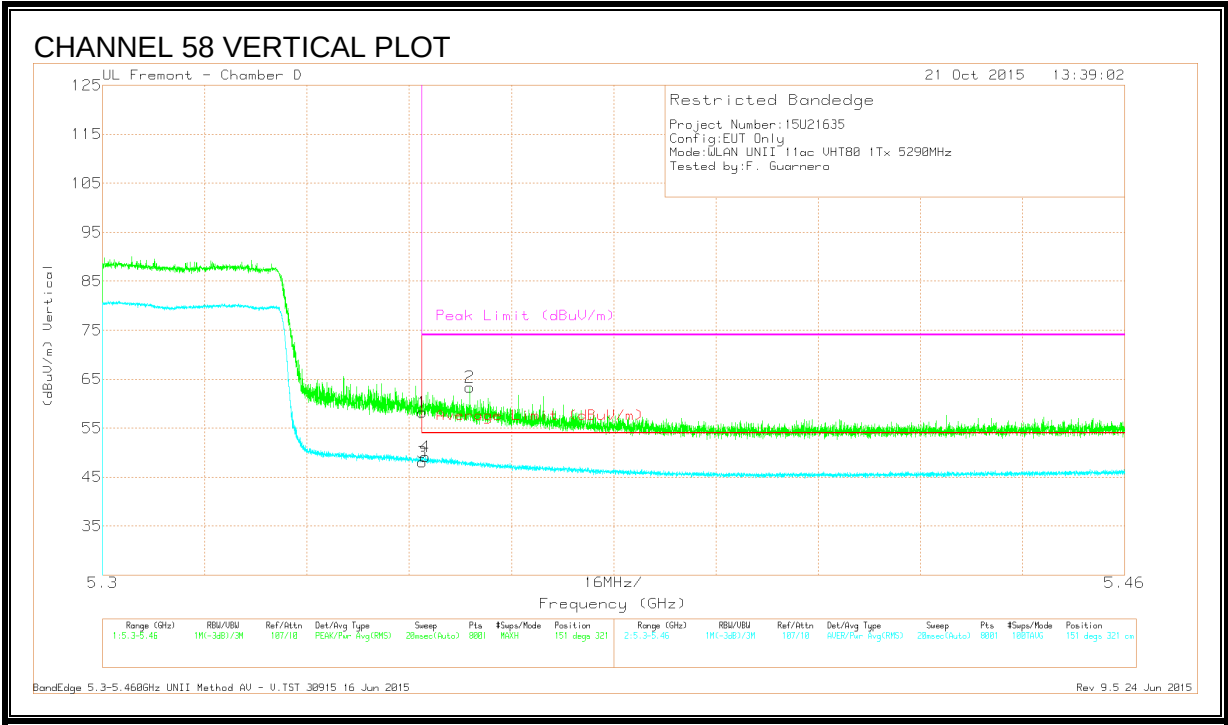
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	45.57	Pk	34.4	-18.5	0	61.47	-	-	74	-12.53	111	356	H
3	* 5.35	34.52	RMS	34.4	-18.5	.16	50.58	54	-3.42	-	-	111	356	H
4	* 5.351	35	RMS	34.4	-18.5	.16	51.06	54	-2.94	-	-	111	356	H
2	* 5.357	49.58	Pk	34.4	-18.5	0	65.48	-	-	74	-8.52	111	356	H

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

Pk - Peak detector

RMS - RMS detection



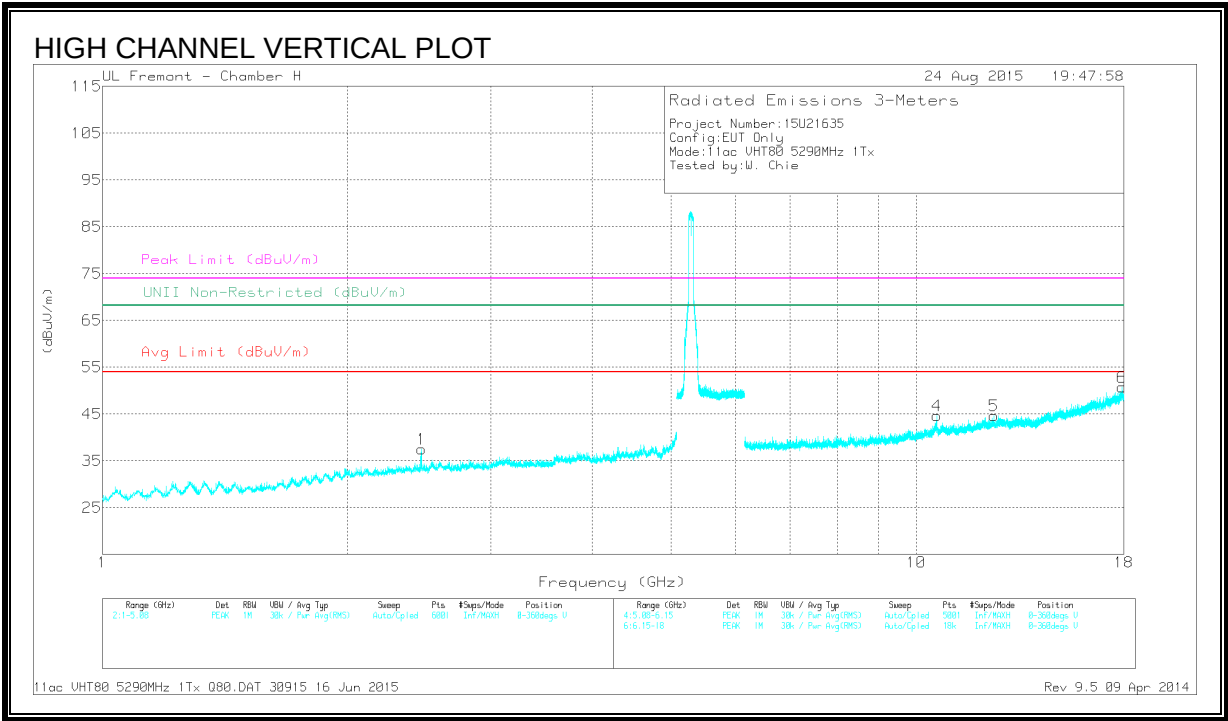
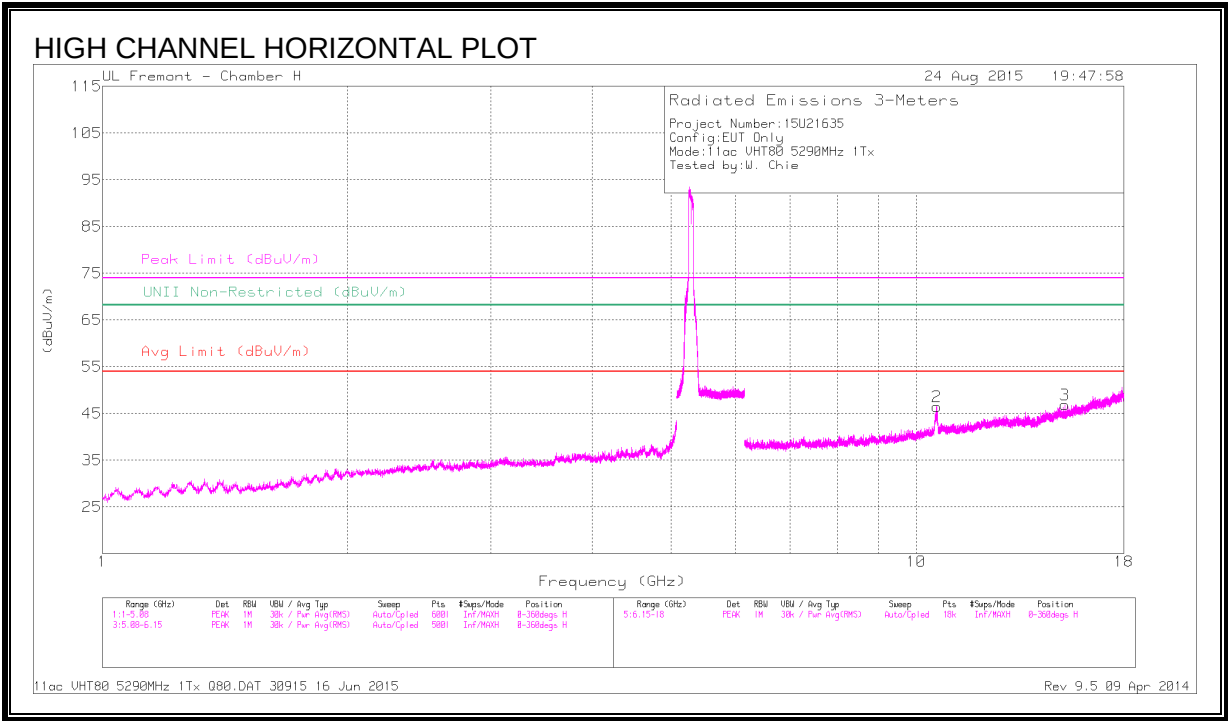
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Ftr r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	42.33	Pk	34.4	-18.5	0	58.23	-	-	74	-15.77	151	321	V
3	* 5.35	32	RMS	34.4	-18.5	.16	48.06	54	-5.94	-	-	151	321	V
4	* 5.351	33.06	RMS	34.4	-18.5	.16	49.12	54	-4.88	-	-	151	321	V
2	* 5.357	47.49	Pk	34.4	-18.5	0	63.39	-	-	74	-10.61	151	321	V

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

Pk - Peak detector

RMS - RMS detection



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 10.6	41.06	PK-U	37.6	-24.7	0	53.96	-	-	74	-20.04	-	-	321	109	H
	* 10.601	28.7	ADR	37.7	-24.7	.16	41.85	54	-12.15	-	-	-	-	321	109	H
4	* 10.609	37.96	PK-U	37.7	-24.8	0	50.86	-	-	74	-23.14	-	-	190	386	V
	* 10.606	25.95	ADR	37.7	-24.8	.16	39	54	-15	-	-	-	-	190	386	V
5	* 12.458	36.57	PK-U	39.2	-24.8	0	50.97	-	-	74	-23.03	-	-	73	341	V
	* 12.458	24.79	ADR	39.2	-24.8	.16	39.34	54	-14.66	-	-	-	-	73	341	V
6	* 17.916	33.82	PK-U	41.8	-18.3	0	57.32	-	-	74	-16.68	-	-	183	114	V
	* 17.915	22.07	ADR	41.8	-18.3	.16	45.72	54	-8.28	-	-	-	-	183	114	V
1	2.464	44.2	PK-U	32.3	-33.4	0	43.1	-	-	-	-	68.2	-25.1	311	125	V
3	15.235	37.18	PK-U	40.6	-24.5	0	53.28	-	-	-	-	68.2	-14.92	291	117	H

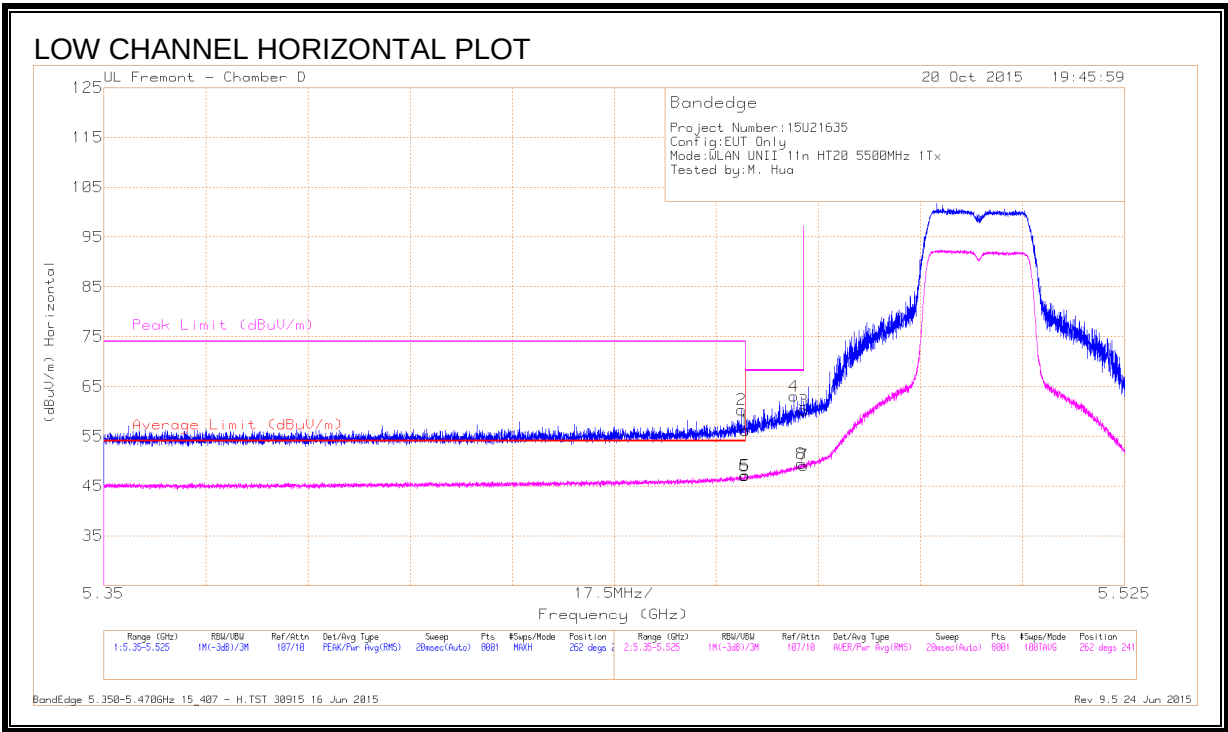
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.7. 802.11n HT20 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



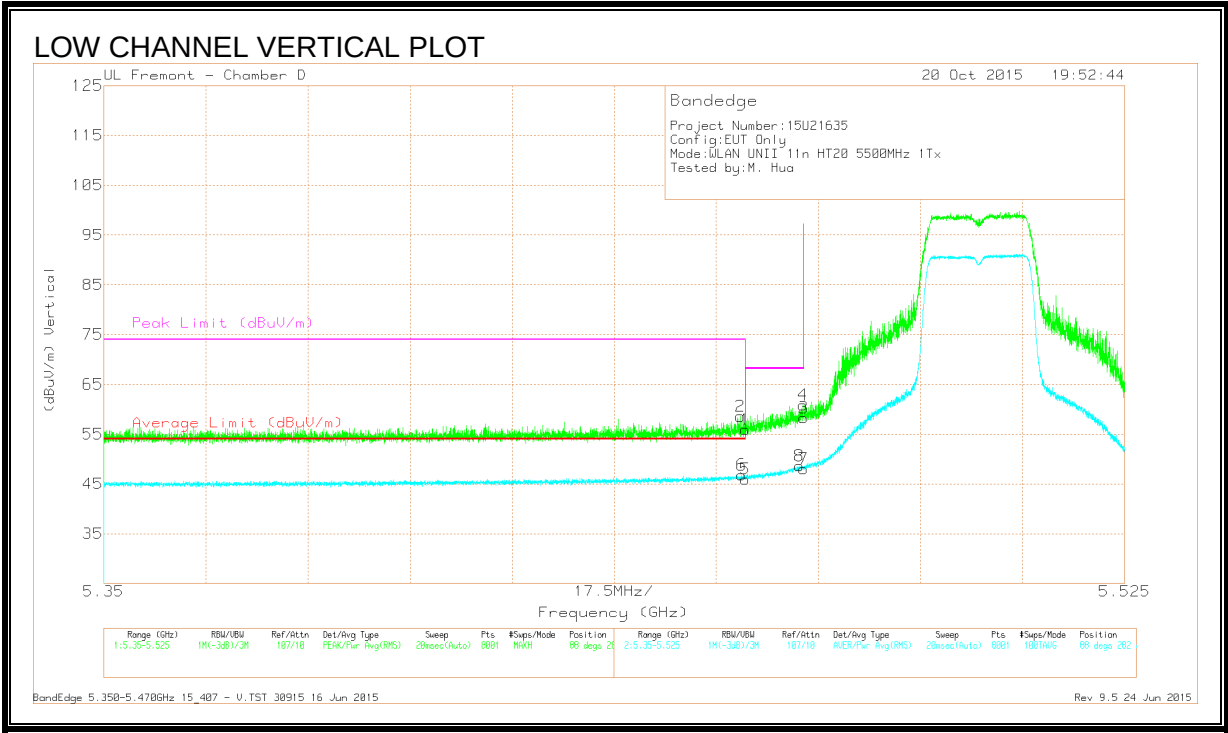
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.74	Pk	34.4	-18	0	56.14	-	-	74	-17.86	262	241	H
2	* 5.459	43.9	Pk	34.4	-18	0	60.3	-	-	74	-13.7	262	241	H
5	* 5.46	30.76	RMS	34.4	-18	0	47.16	54	-6.84	-	-	262	241	H
6	* 5.46	30.64	RMS	34.4	-18	0	47.04	54	-6.96	-	-	262	241	H
4	5.468	46.61	Pk	34.4	-18	0	63.01	-	-	68.2	-5.19	262	241	H
3	5.47	43.82	Pk	34.4	-18	0	60.22	-	-	68.2	-7.98	262	241	H

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

Pk - Peak detector

RMS - RMS detection



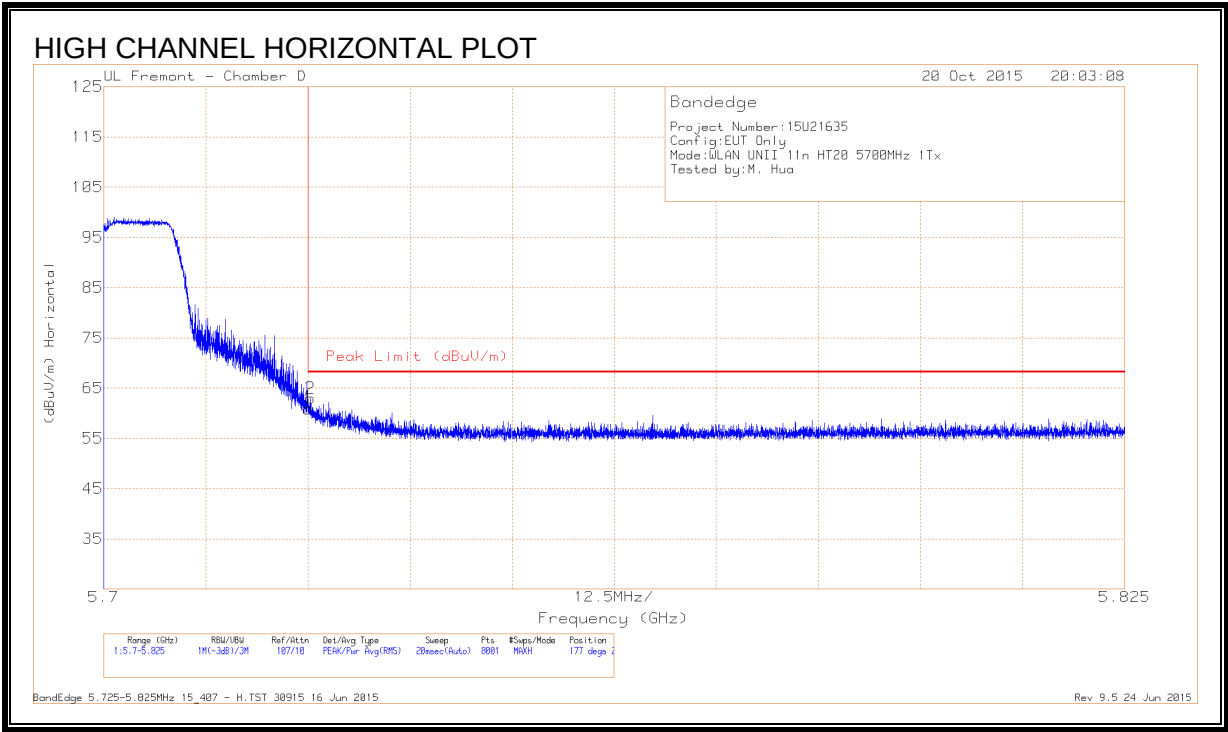
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Ftr r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.55	Pk	34.4	-18	0	55.95	-	-	74	-18.05	88	282	V
2	* 5.459	42.19	Pk	34.4	-18	0	58.59	-	-	74	-15.41	88	282	V
5	* 5.46	29.59	RMS	34.4	-18	0	45.99	54	-8.01	-	-	88	282	V
6	* 5.459	30.42	RMS	34.4	-18	0	46.82	54	-7.18	-	-	88	282	V
3	5.47	41.91	Pk	34.4	-18	0	58.31	-	-	68.2	-9.89	88	282	V
4	5.47	44.48	Pk	34.4	-18	0	60.88	-	-	68.2	-7.32	88	282	V

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

Pk - Peak detector

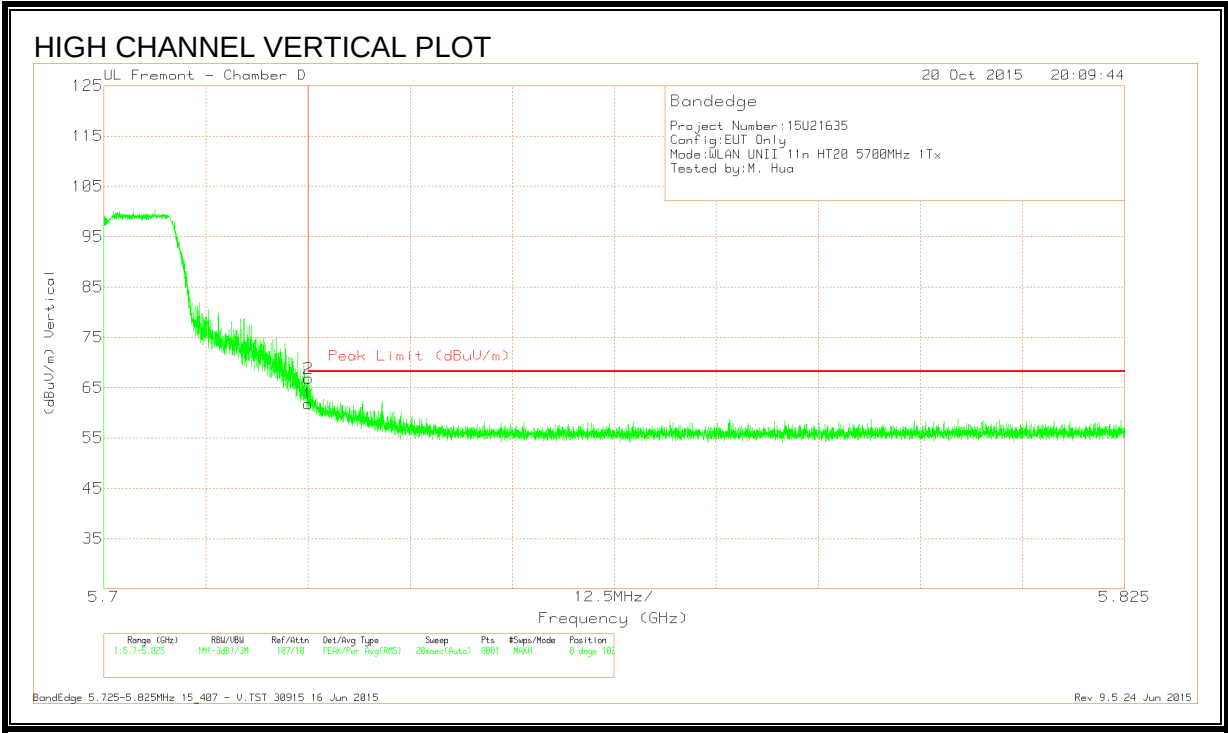
RMS - RMS detection



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.87	Pk	34.6	-17.6	0	60.87	68.2	-7.33	177	262	H
2	5.725	46	Pk	34.6	-17.6	0	63	68.2	-5.2	177	262	H

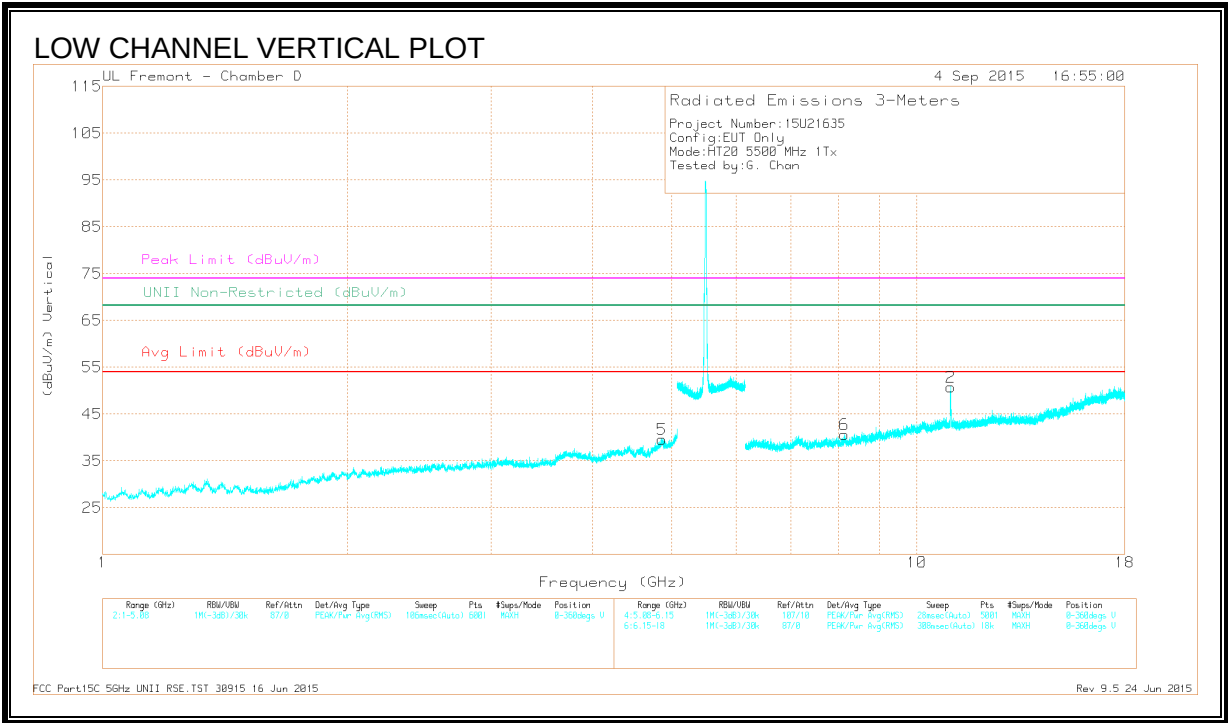
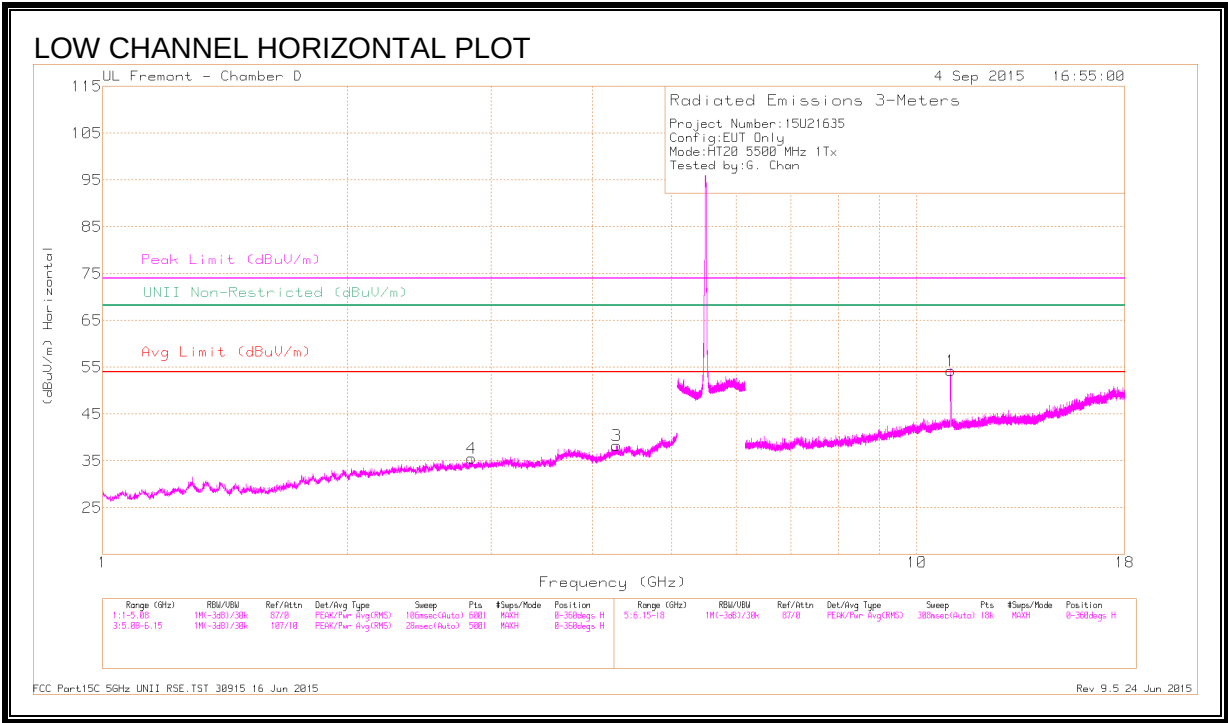
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	44.75	Pk	34.6	-17.6	0	61.75	68.2	-6.45	0	102	V
2	5.725	49.85	Pk	34.6	-17.6	0	66.85	68.2	-1.35	0	102	V

Pk - Peak detector



DATA

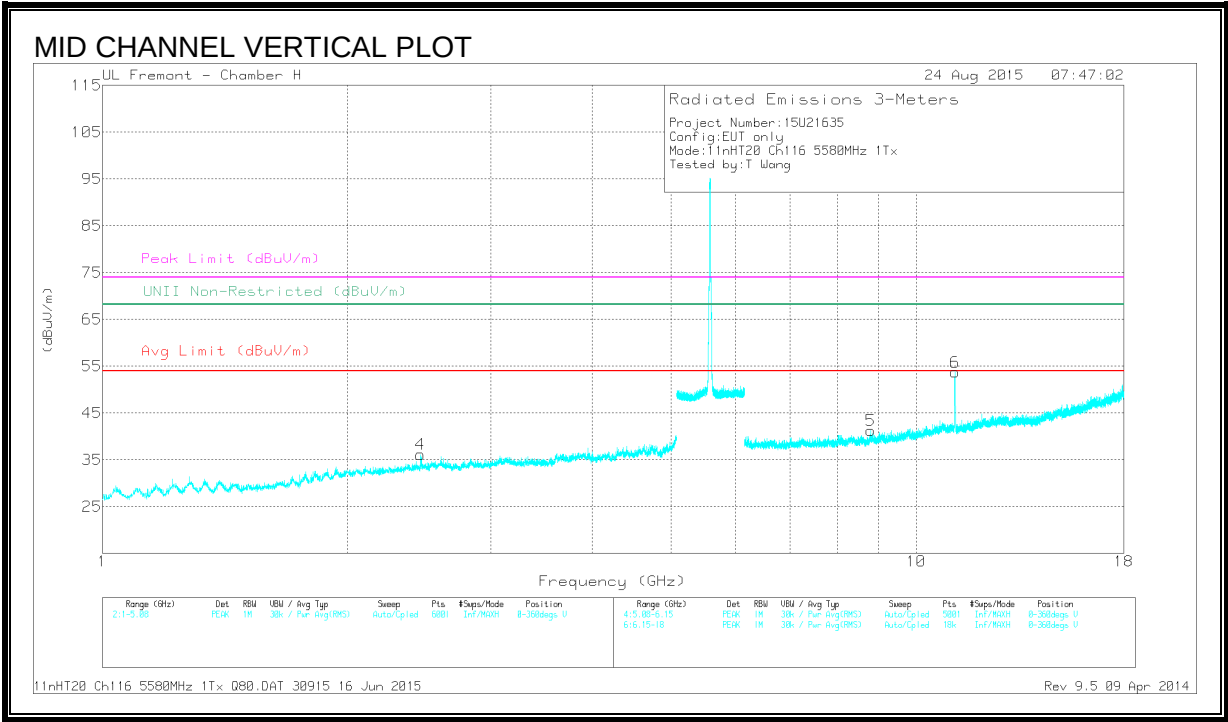
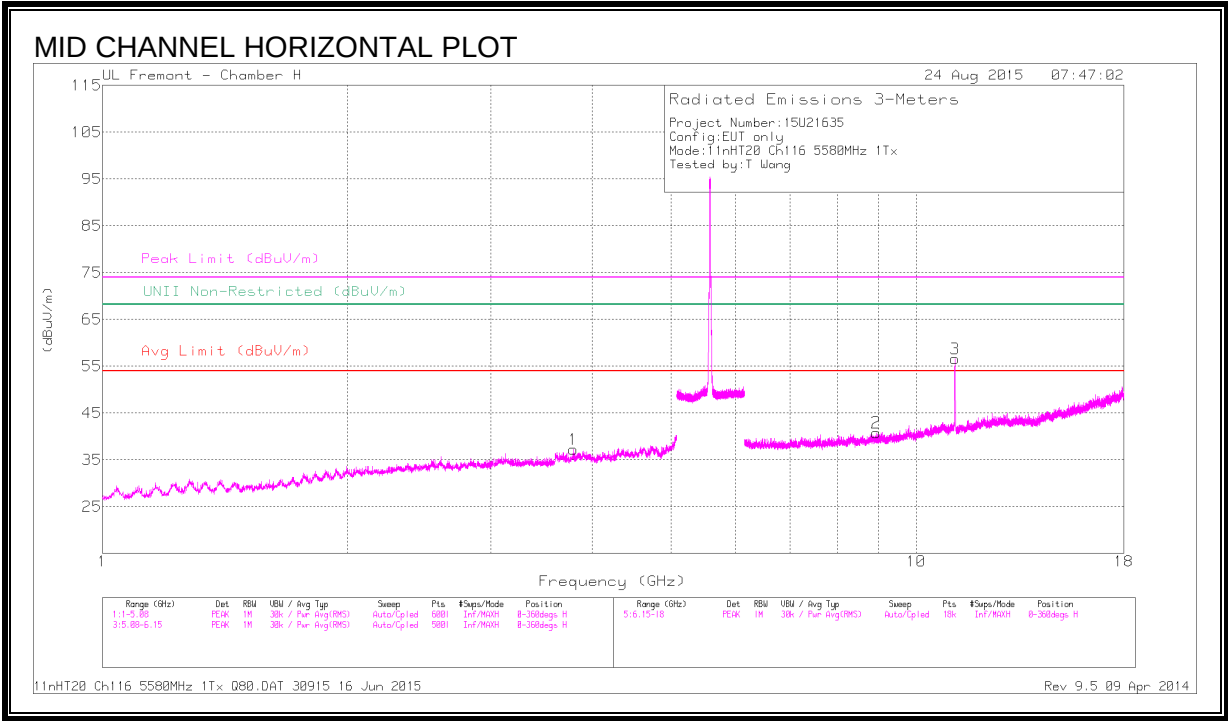
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.278	38.48	PK-U	33.6	-27.9	44.18	-	-	74	-29.82	-	-	301	192	H
	* 4.28	26.39	ADR	33.6	-27.9	32.09	54	-21.91	-	-	-	-	301	192	H
4	* 2.837	38.97	PK-U	32.5	-29.4	42.07	-	-	74	-31.93	-	-	227	111	H
	* 2.837	27.22	ADR	32.5	-29.4	30.32	54	-23.68	-	-	-	-	227	111	H
5	* 4.862	38.01	PK-U	34.1	-25.4	46.71	-	-	74	-27.29	-	-	89	115	V
	* 4.863	25.4	ADR	34.1	-25.4	34.1	54	-19.9	-	-	-	-	89	115	V
1	* 11.001	46.29	PK-U	38.1	-21.6	62.79	-	-	74	-11.21	-	-	113	382	H
	* 11.001	33.07	ADR	38.1	-21.6	49.57	54	-4.43	-	-	-	-	113	382	H
2	* 10.999	44.28	PK-U	38.1	-21.7	60.68	-	-	74	-13.32	-	-	309	107	V
	* 11.001	31.61	ADR	38.1	-21.6	48.11	54	-5.89	-	-	-	-	309	107	V
6	* 8.152	35.7	PK-U	35.6	-23.8	47.5	-	-	74	-26.5	-	-	91	162	V
	* 8.151	23.73	ADR	35.6	-23.8	35.53	54	-18.47	-	-	-	-	91	162	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

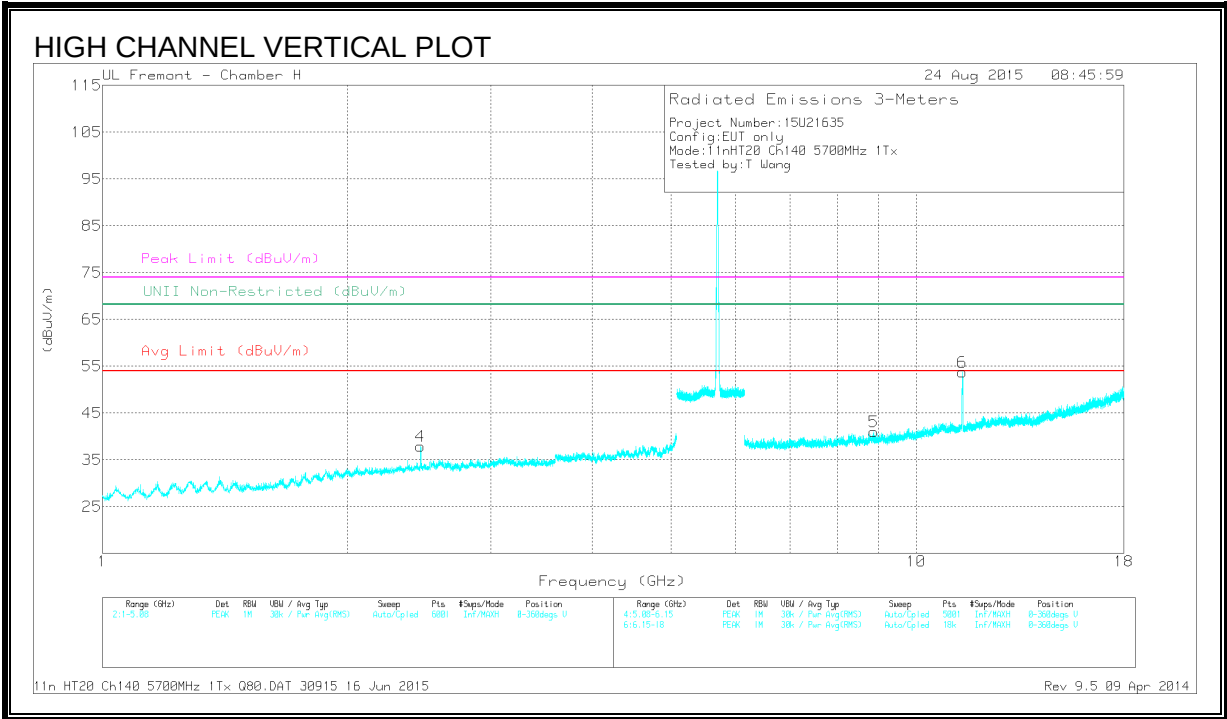
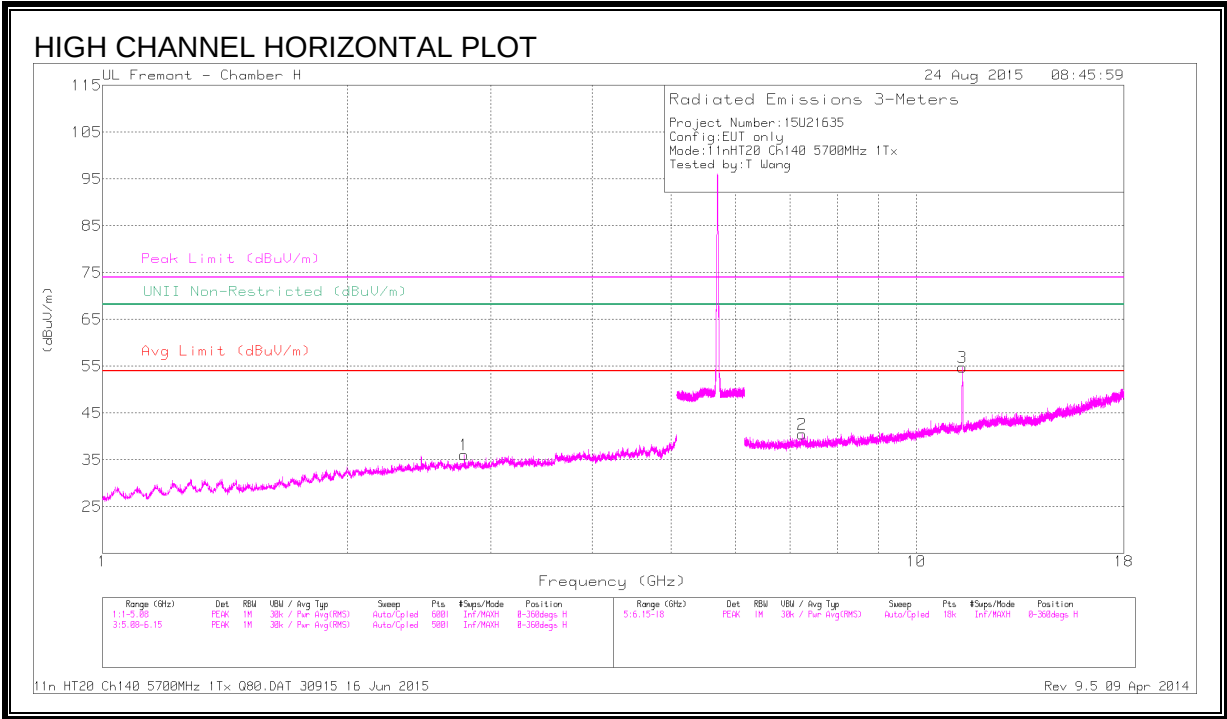
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.791	42.58	PK-U	33.4	-31.8	44.18	-	-	74	-29.82	-	-	165	323	H
	* 3.793	30.8	ADR	33.4	-31.8	32.55	54	-21.45	-	-	-	-	165	323	H
3	* 11.158	51.21	PK-U	37.8	-24.9	64.11	-	-	74	-9.89	-	-	0	103	H
	* 11.16	37.67	ADR	37.8	-24.9	50.72	54	-3.28	-	-	-	-	0	103	H
6	* 11.155	48.71	PK-U	37.8	-24.8	61.71	-	-	74	-12.29	-	-	3	116	V
	* 11.159	35.1	ADR	37.8	-24.9	48.15	54	-5.85	-	-	-	-	3	116	V
4	2.461	43.15	PK-U	32.3	-33.4	42.05	-	-	-	-	68.2	-26.15	16	108	V
5	8.796	37.46	PK-U	36.1	-26.3	47.26	-	-	-	-	68.2	-20.94	11	122	V
2	8.925	38.18	PK-U	36.2	-27.4	46.98	-	-	-	-	68.2	-21.22	36	108	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

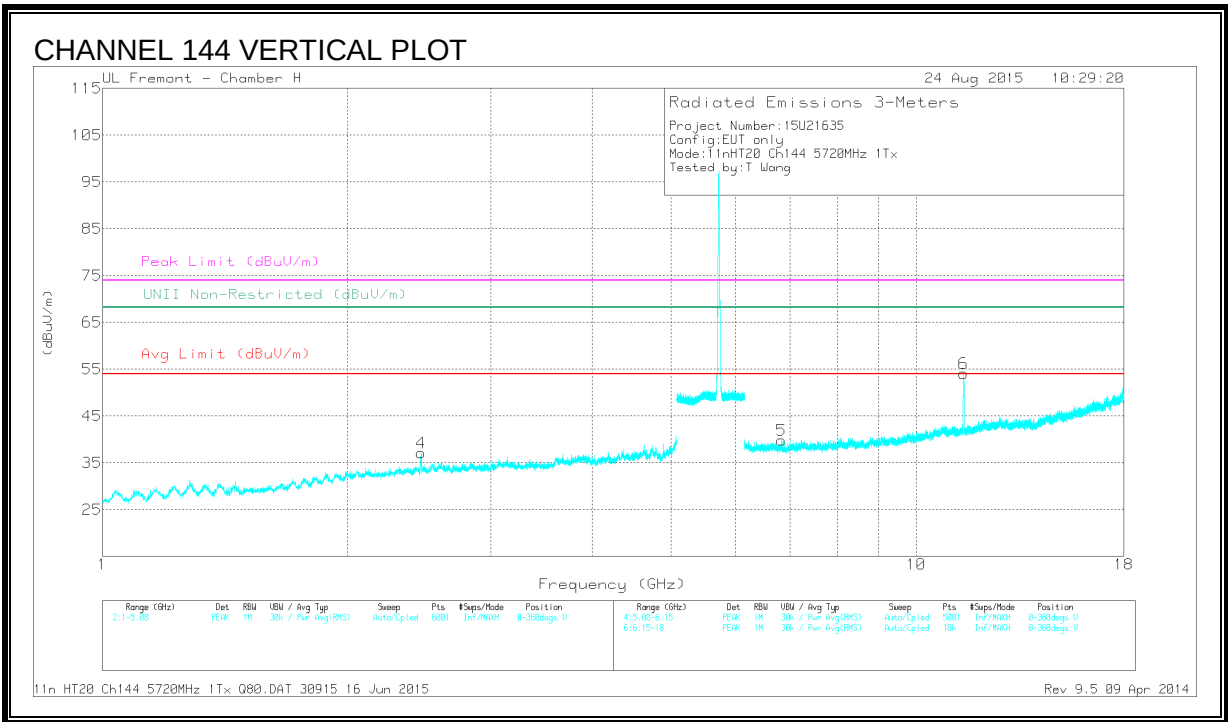
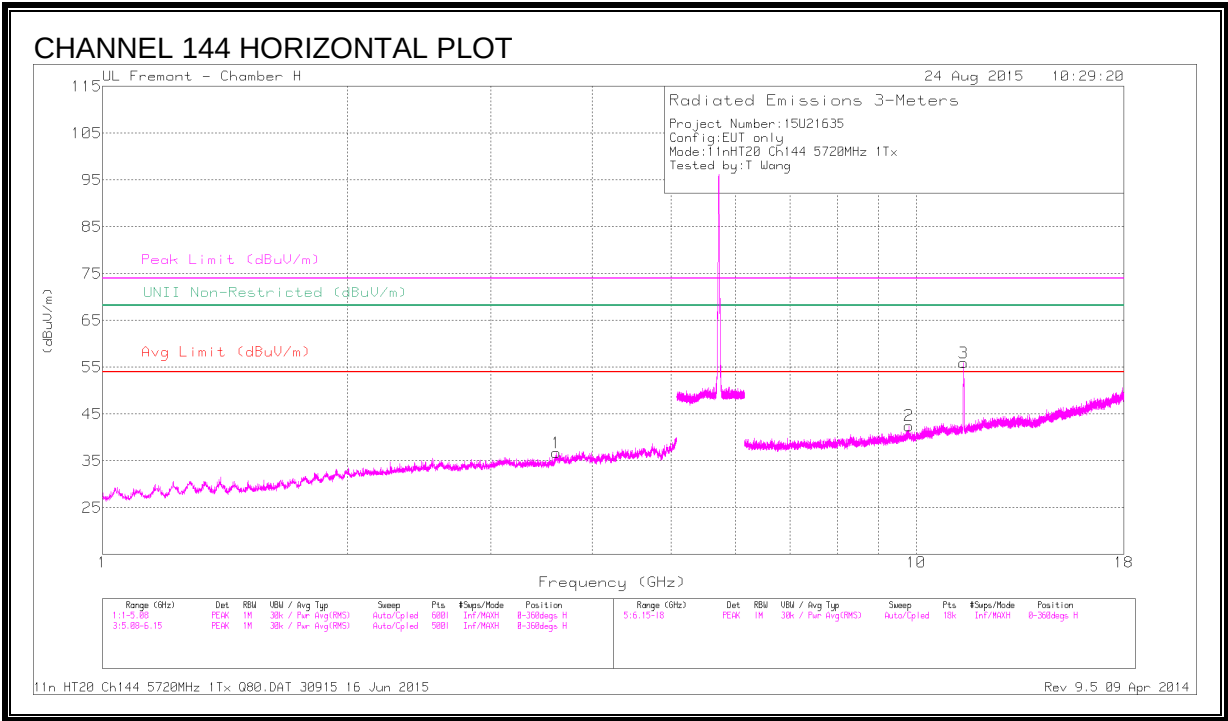
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.782	42.07	PK-U	32.4	-32.5	41.97	-	-	74	-32.03	-	-	151	109	H
	* 2.784	30.42	ADR	32.4	-32.5	30.47	54	-23.53	-	-	-	-	151	109	H
3	* 11.402	51.22	PK-U	37.9	-24.4	64.72	-	-	74	-9.28	-	-	146	101	H
	* 11.401	37.15	ADR	37.9	-24.4	50.80	54	-3.20	-	-	-	-	146	101	H
6	* 11.392	48.73	PK-U	37.9	-24.4	62.23	-	-	74	-11.77	-	-	39	100	V
	* 11.394	34.51	ADR	37.9	-24.4	48.16	54	-5.84	-	-	-	-	39	100	V
4	2.462	45.22	PK-U	32.3	-33.4	44.12	-	-	-	-	68.2	-24.08	52	113	V
2	7.239	39.18	PK-U	35.9	-28	47.08	-	-	-	-	68.2	-21.12	148	105	H
5	8.874	37.71	PK-U	36.2	-27	46.91	-	-	-	-	68.2	-21.29	41	104	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.8. 802.11ac VHT20 CHANNEL 144 HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.612	41.71	PK-U	33.1	-31.6	43.21	-	-	74	-30.79	-	-	155	107	H
	* 3.612	30.48	ADR	33.1	-31.6	32.13	54	-21.87	-	-	-	-	155	107	H
3	* 11.442	50.35	PK-U	37.9	-24.7	63.55	-	-	74	-10.45	-	-	167	100	H
	* 11.44	36.12	ADR	37.9	-24.7	49.47	54	-4.53	-	-	-	-	167	100	H
6	* 11.438	49.74	PK-U	37.9	-24.7	62.94	-	-	74	-11.06	-	-	0	106	V
	* 11.439	35.96	ADR	37.9	-24.7	49.31	54	-4.69	-	-	-	-	0	106	V
4	2.462	42.41	PK-U	32.3	-33.4	41.31	-	-	-	-	68.2	-26.89	33	115	V
5	6.832	40.55	PK-U	35.8	-29.7	46.65	-	-	-	-	68.2	-21.55	25	109	V
2	9.795	36.96	PK-U	36.8	-25.2	48.56	-	-	-	-	68.2	-19.64	162	103	H

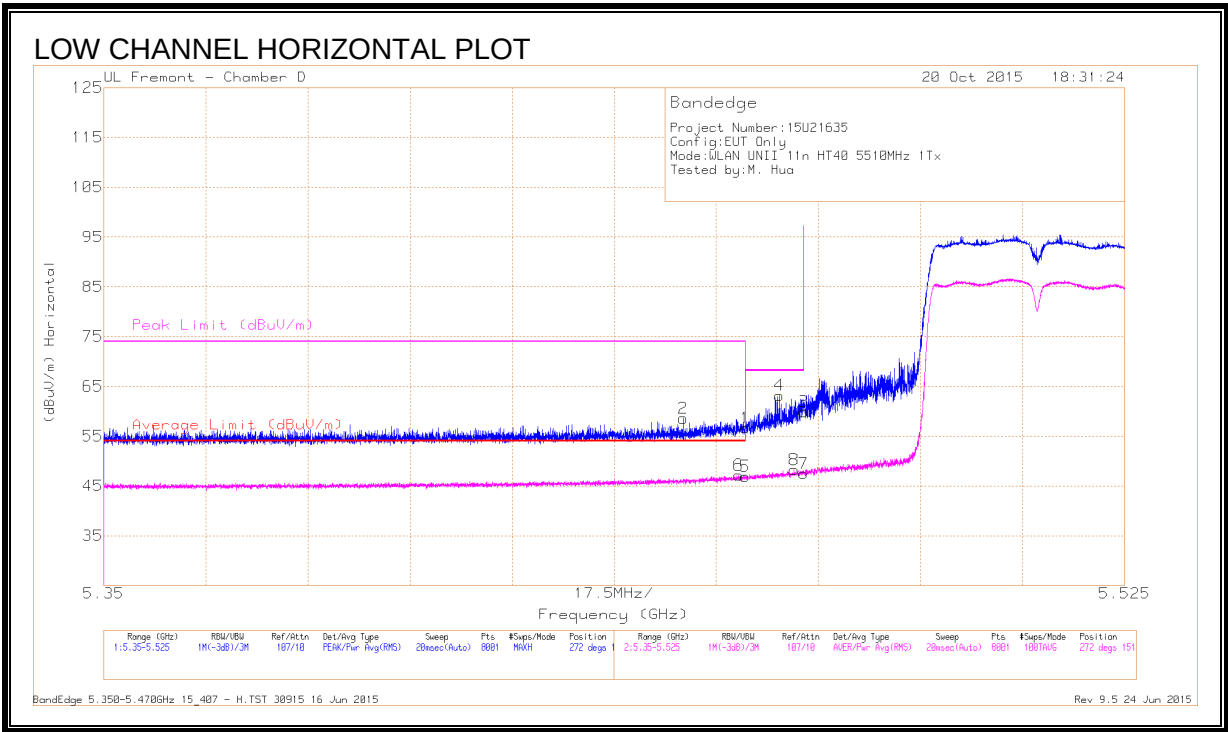
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.9. 802.11n HT40 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



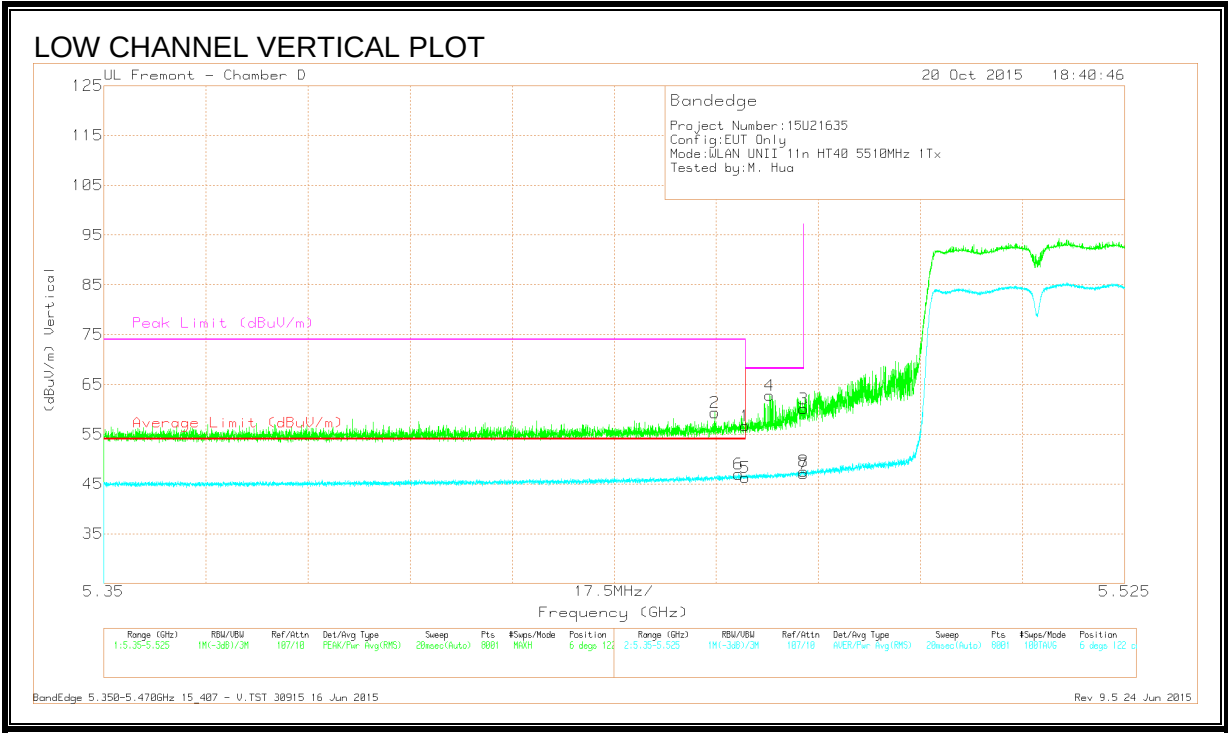
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	40.25	Pk	34.4	-18	0	56.65	-	-	74	-17.35	272	151	H
2	* 5.449	42.39	Pk	34.4	-18.2	0	58.59	-	-	74	-15.41	272	151	H
5	* 5.46	30.52	RMS	34.4	-18	0	46.92	54	-7.08	-	-	272	151	H
6	* 5.459	30.79	RMS	34.4	-18	0	47.19	54	-6.81	-	-	272	151	H
4	5.466	46.82	Pk	34.4	-18	0	63.22	-	-	68.2	-4.98	272	151	H
3	5.47	43.53	Pk	34.4	-18	0	59.93	-	-	68.2	-8.27	272	151	H

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

Pk - Peak detector

RMS - RMS detection



DATA

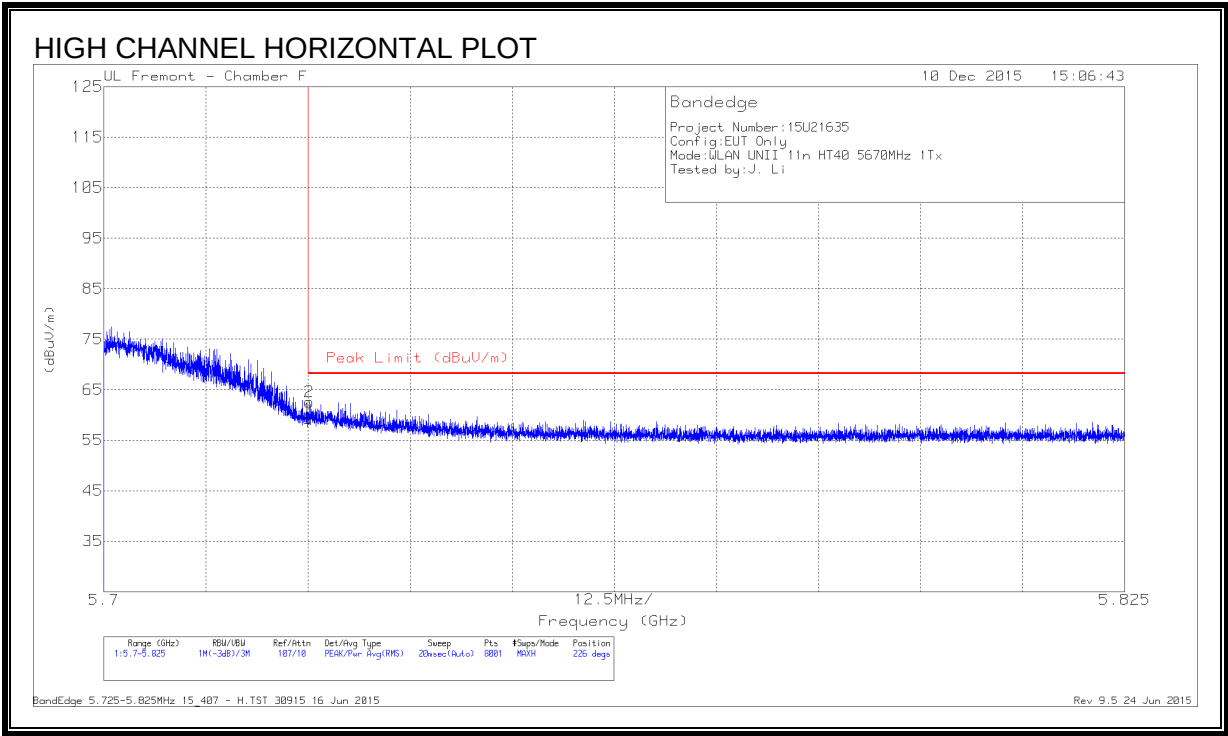
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Ftr r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	40.25	Pk	34.4	-18	0	56.65	-	-	74	-17.35	6	122	V
2	* 5.455	43.03	Pk	34.4	-18.1	0	59.33	-	-	74	-14.67	6	122	V
5	* 5.46	29.88	RMS	34.4	-18	0	46.28	54	-7.72	-	-	6	122	V
6	* 5.459	30.58	RMS	34.4	-18	0	46.98	54	-7.02	-	-	6	122	V
4	5.464	46.37	Pk	34.4	-18	0	62.77	-	-	68.2	-5.43	6	122	V
3	5.47	43.68	Pk	34.4	-18	0	60.08	-	-	68.2	-8.12	6	122	V

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

Pk - Peak detector

RMS - RMS detection

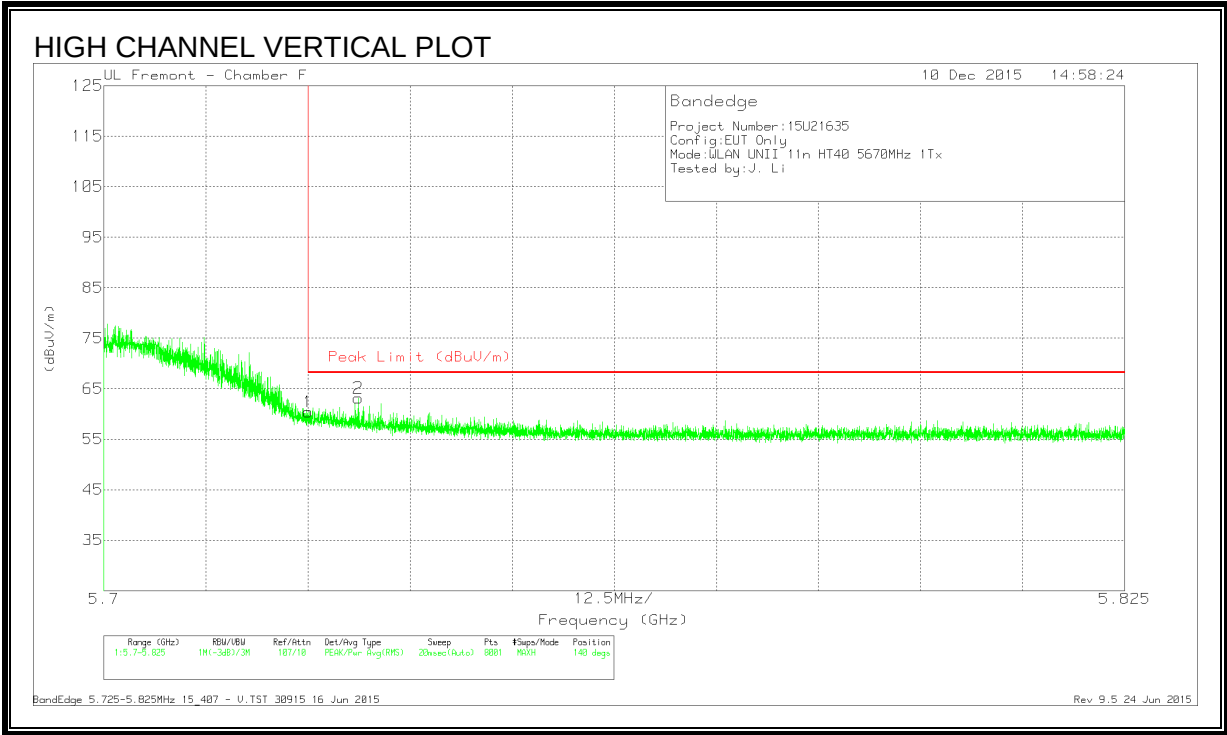
RESTRICTED BANDEDGE, CHAIN 0 (HIGH CHANNEL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.76	Pk	34.9	-18.4	59.26	68.2	-8.94	226	147	H
2	5.725	46.09	Pk	34.9	-18.4	62.59	68.2	-5.61	226	147	H

Pk - Peak detector

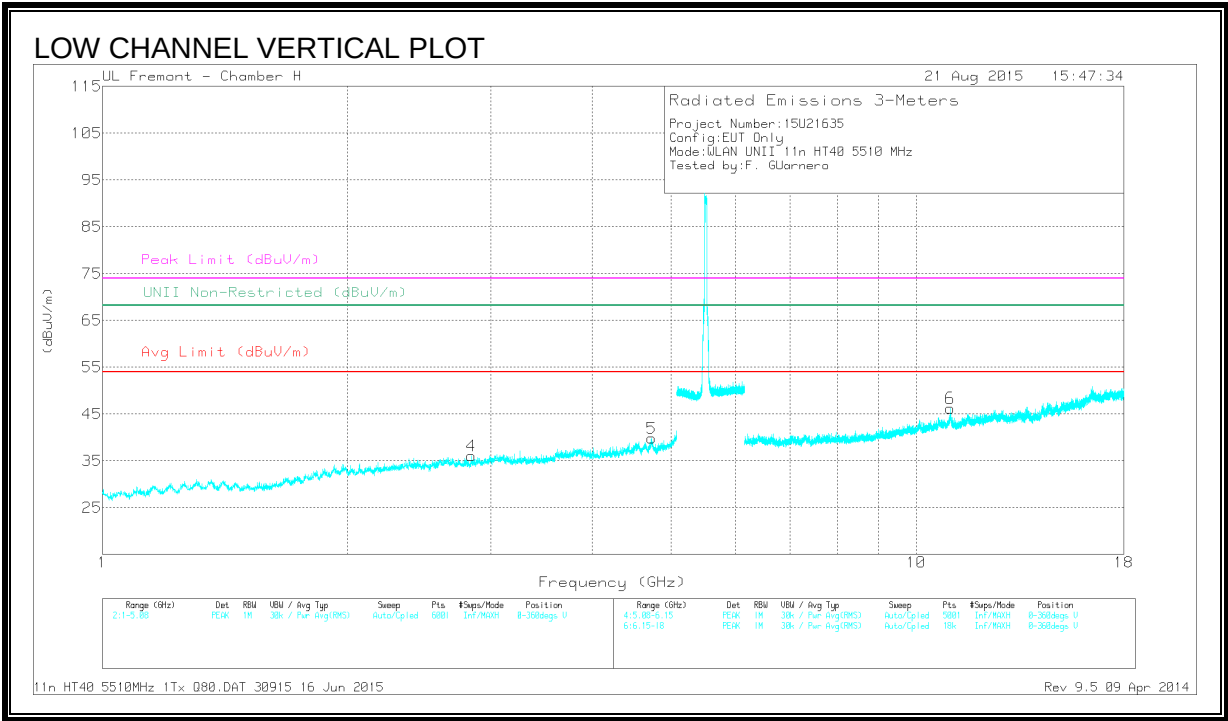
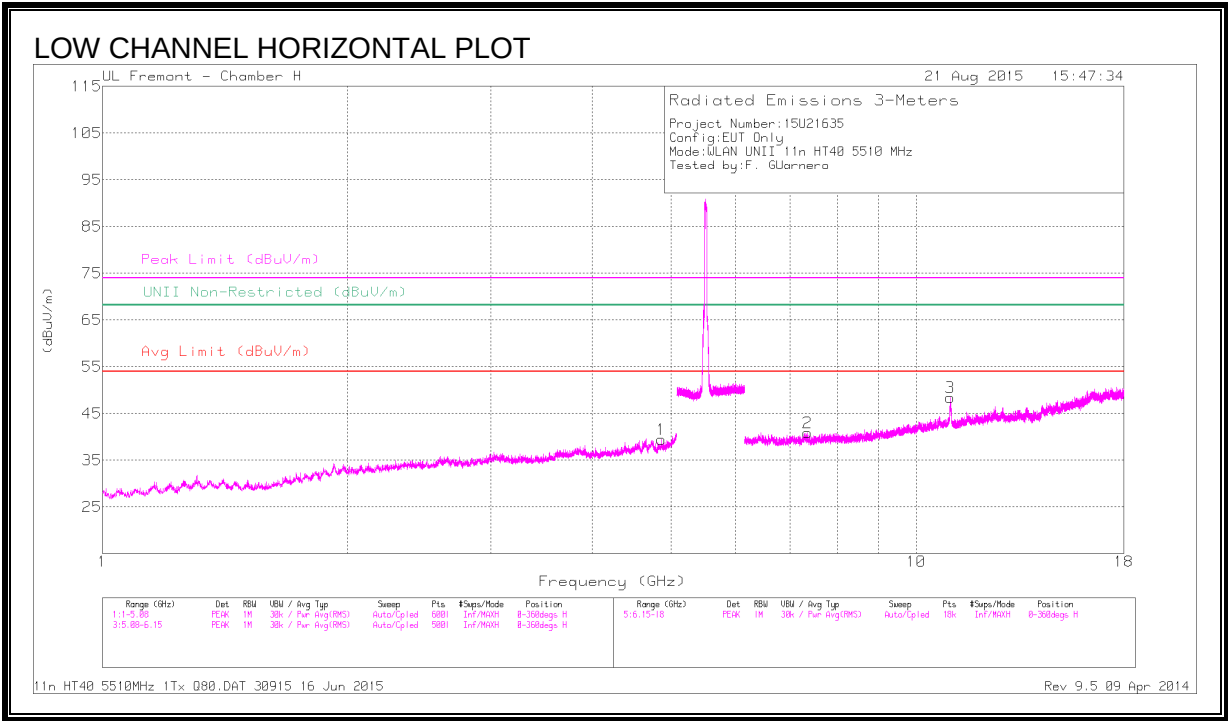


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.92	Pk	34.9	-18.4	60.42	68.2	-7.78	140	183	V
2	5.731	46.64	Pk	34.9	-18.4	63.14	68.2	-5.06	140	183	V

Pk - Peak detector

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

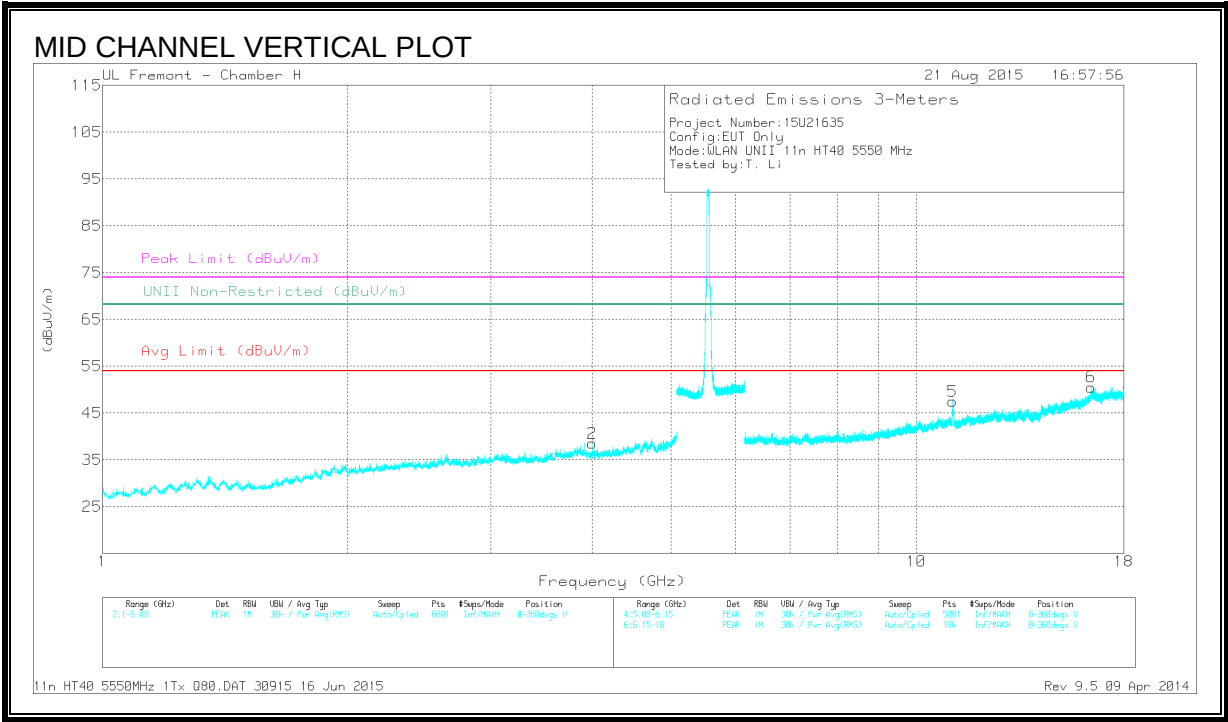
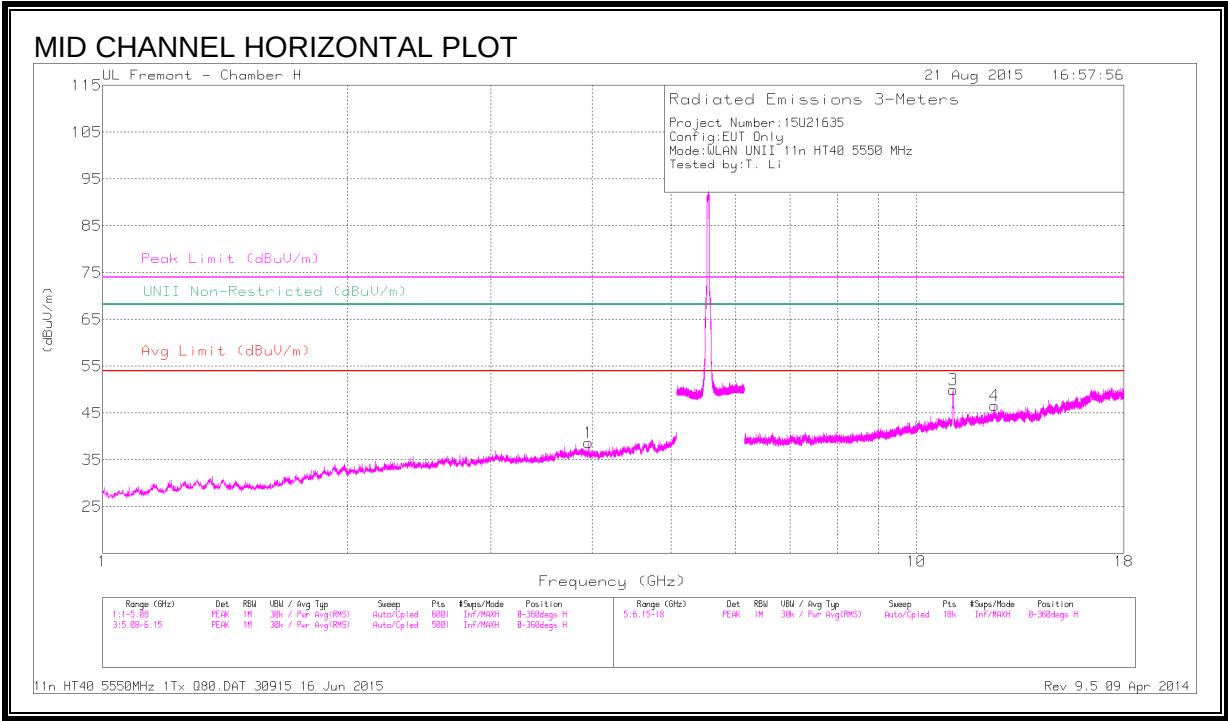
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.861	41.13	PK-U	34.1	-29.2	46.03	-	-	74	-27.97	-	-	11	264	H
	* 4.861	28.59	ADR	34.1	-29.2	33.49	54	-20.51	-	-	-	-	11	264	H
2	* 7.353	39.49	PK-U	35.5	-27.3	47.69	-	-	74	-26.31	-	-	89	253	H
	* 7.355	27.16	ADR	35.5	-27.4	35.26	54	-18.74	-	-	-	-	89	253	H
3	* 11.019	42.85	PK-U	37.9	-23.2	57.55	-	-	74	-16.45	-	-	312	230	H
	* 11.02	30.12	ADR	37.9	-23.2	44.82	54	-9.18	-	-	-	-	312	230	H
4	* 2.839	42.19	PK-U	32.4	-31.9	42.69	-	-	74	-31.31	-	-	205	243	V
	* 2.841	30.16	ADR	32.4	-31.9	30.66	54	-23.34	-	-	-	-	205	243	V
5	* 4.732	41.27	PK-U	34.2	-28.9	46.57	-	-	74	-27.43	-	-	241	263	V
	* 4.731	29.59	ADR	34.2	-28.9	34.89	54	-19.11	-	-	-	-	241	263	V
6	* 11.021	39.6	PK-U	37.9	-23.3	54.2	-	-	74	-19.8	-	-	202	101	V
	* 11.02	26.74	ADR	37.9	-23.2	41.44	54	-12.56	-	-	-	-	202	101	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

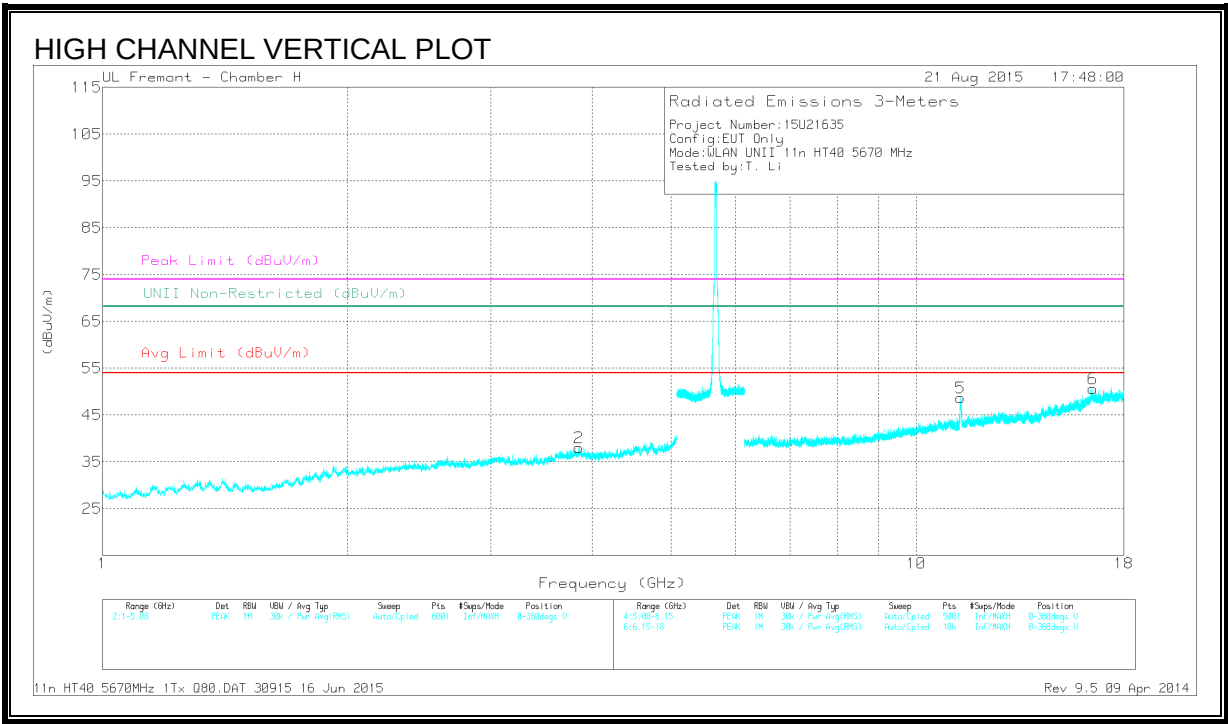
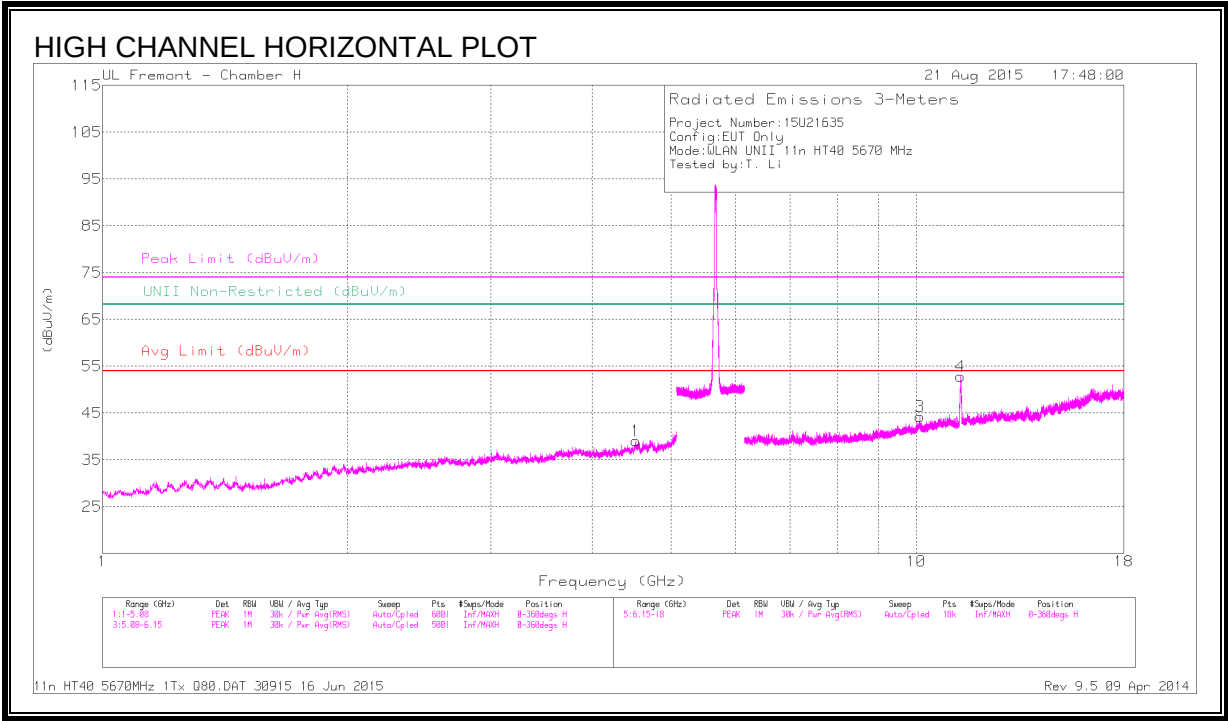
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.957	42.58	PK-U	33.4	-31.1	44.88	-	-	74	-29.12	-	-	258	176	H
	* 3.955	30.17	ADR	33.4	-31.1	32.47	54	-21.53	-	-	-	-	258	176	H
2	* 4	41.01	PK-U	33.4	-30	44.41	-	-	74	-29.59	-	-	288	396	V
	* 3.998	29.31	ADR	33.4	-30.1	32.61	54	-21.39	-	-	-	-	288	396	V
3	* 11.094	47.2	PK-U	37.9	-24.2	60.9	-	-	74	-13.1	-	-	40	292	H
	* 11.101	35.39	ADR	37.9	-24.2	49.09	54	-4.91	-	-	-	-	40	292	H
4	* 12.479	37.31	PK-U	38.9	-23.4	52.81	-	-	74	-21.19	-	-	249	183	H
	* 12.478	25.27	ADR	38.9	-23.3	40.87	54	-13.13	-	-	-	-	249	183	H
5	* 11.107	43.25	PK-U	37.9	-24.2	56.95	-	-	74	-17.05	-	-	225	101	V
	* 11.101	31.48	ADR	37.9	-24.2	45.18	54	-8.82	-	-	-	-	225	101	V
6	16.406	37.31	PK-U	41.1	-21.4	57.01	-	-	-	-	68.2	-11.19	350	206	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

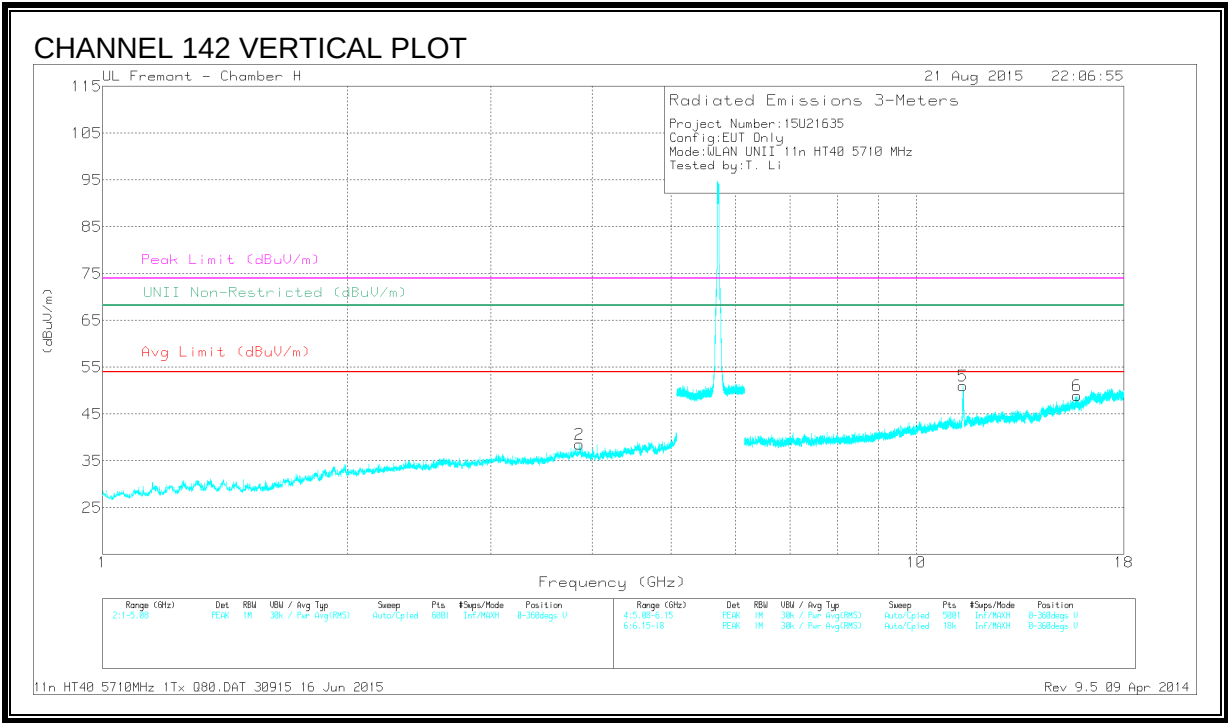
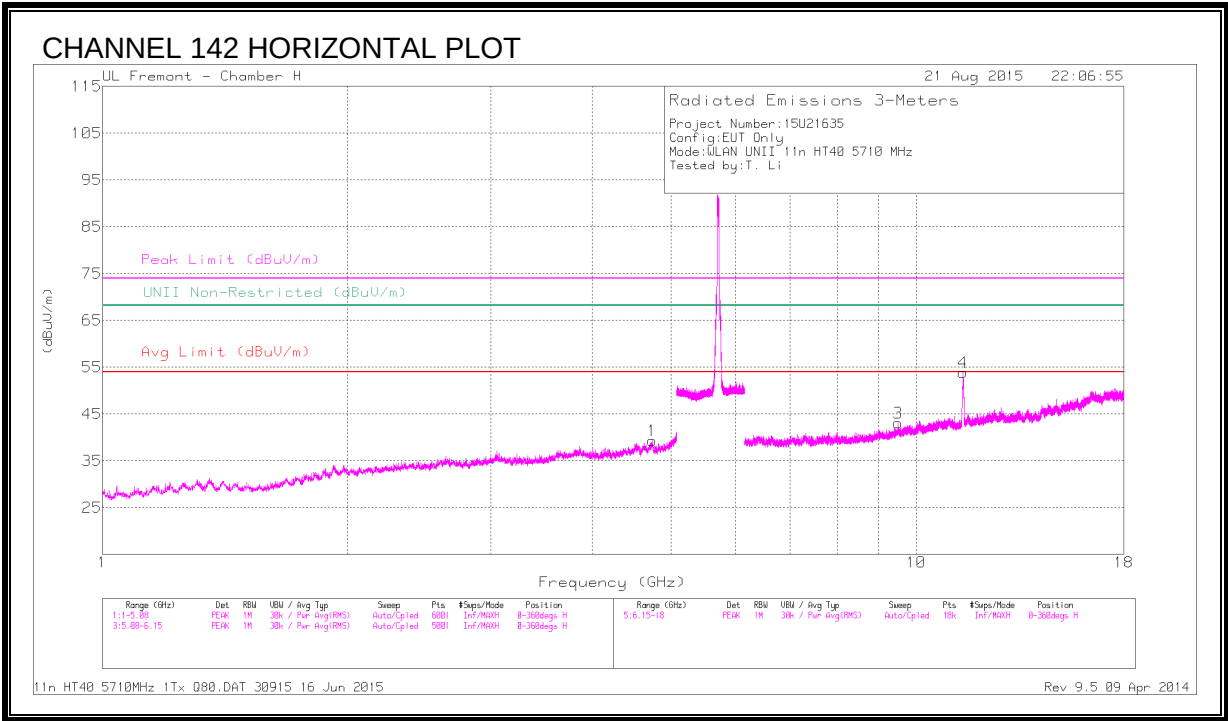
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.522	41.83	PK-U	34	-29.7	46.13	-	-	74	-27.87	-	-	102	182	H
	* 4.519	29.72	ADR	34	-29.7	34.02	54	-19.98	-	-	-	-	102	182	H
2	* 3.852	41.43	PK-U	33.5	-29.8	45.13	-	-	74	-28.87	-	-	230	152	V
	* 3.851	29.61	ADR	33.5	-29.8	33.31	54	-20.69	-	-	-	-	230	152	V
4	* 11.341	48.83	PK-U	38	-24.5	62.33	-	-	74	-11.67	-	-	257	333	H
	* 11.339	36.21	ADR	38	-24.4	49.81	54	-4.19	-	-	-	-	257	333	H
5	* 11.343	44.65	PK-U	38	-24.5	58.15	-	-	74	-15.85	-	-	42	105	V
	* 11.341	32.16	ADR	38	-24.5	45.66	54	-8.34	-	-	-	-	42	105	V
3	10.102	35.88	PK-U	37.1	-23.2	49.78	-	-	-	-	68.2	-18.42	258	235	H
6	16.5	36.63	PK-U	41.2	-20.9	56.93	-	-	-	-	68.2	-11.27	84	184	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.10. 802.11ac VHT40 CHANNEL 142 HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.739	40.9	PK-U	34.1	-29	46	-	-	74	-28	-	-	135	299	H
	* 4.739	29.02	ADR	34.1	-29	34.12	54	-19.88	-	-	-	-	135	299	H
2	* 3.859	41.37	PK-U	33.5	-29.9	44.97	-	-	74	-29.03	-	-	136	195	V
	* 3.858	29.69	ADR	33.5	-29.9	33.29	54	-20.71	-	-	-	-	136	195	V
4	* 11.417	48.55	PK-U	38	-23.3	63.25	-	-	74	-10.75	-	-	87	343	H
	* 11.419	36.72	ADR	38	-23.3	51.42	54	-2.58	-	-	-	-	87	343	H
5	* 11.424	45.24	PK-U	38	-23.4	59.84	-	-	74	-14.16	-	-	224	101	V
	* 11.421	32.83	ADR	38	-23.3	47.53	54	-6.47	-	-	-	-	224	101	V
6	* 15.775	37.46	PK-U	40.4	-22.6	55.26	-	-	74	-18.74	-	-	266	142	V
	* 15.775	25.71	ADR	40.4	-22.6	43.51	54	-10.49	-	-	-	-	266	142	V
3	9.5	38.01	PK-U	36.8	-24.6	50.21	-	-	-	-	68.2	-17.99	158	206	H

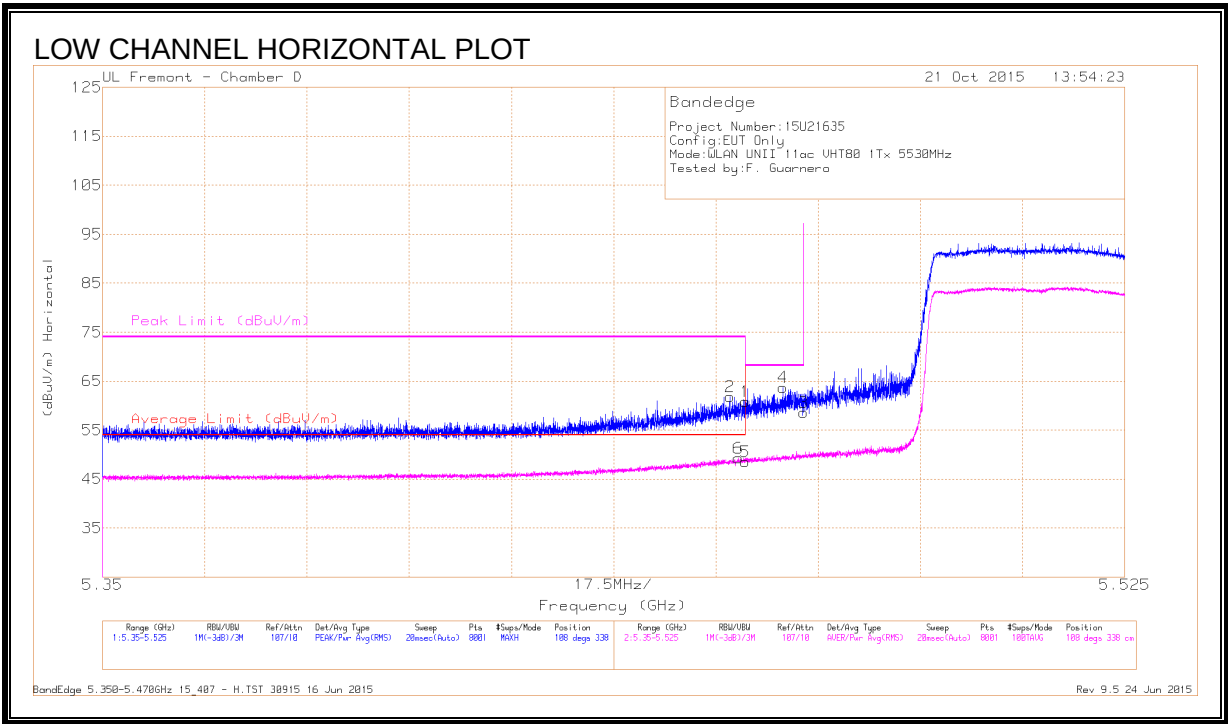
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.11. 802.11ac VHT80 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



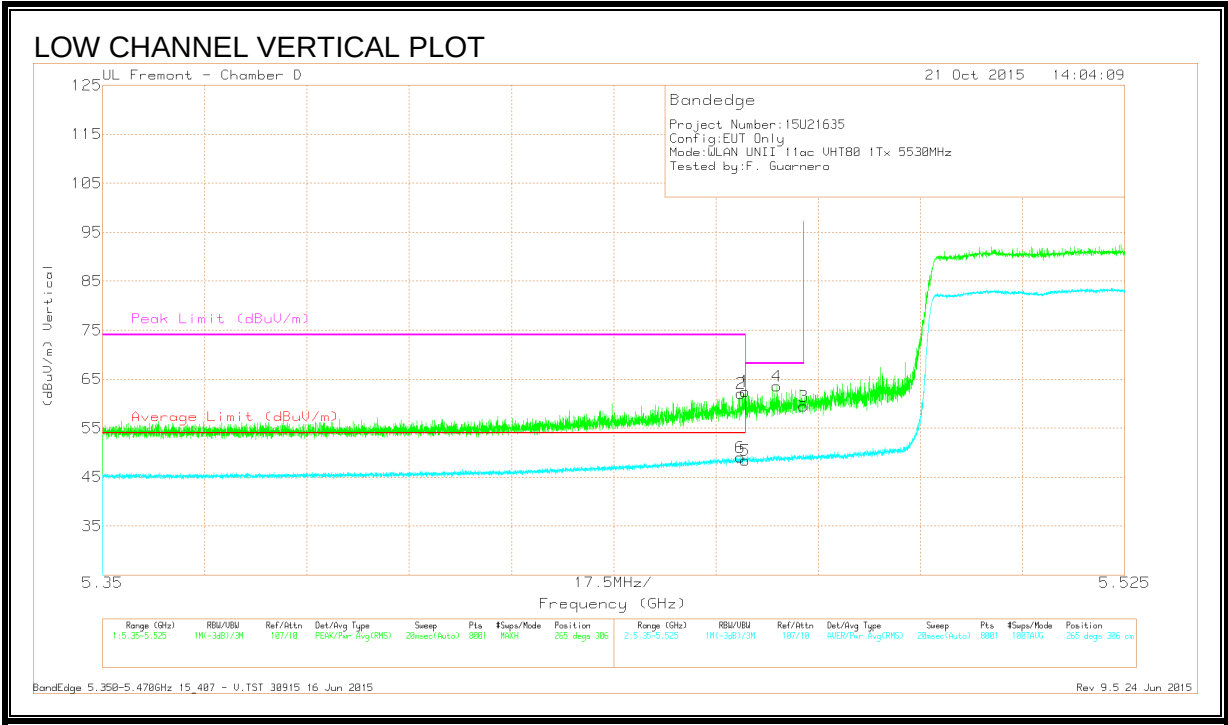
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.457	45.46	Pk	34.4	-18	0	61.86	-	-	74	-12.14	108	338	H
6	* 5.459	32.79	RMS	34.4	-18	.16	49.35	54	-4.65	-	-	108	338	H
1	* 5.46	44.5	Pk	34.4	-18	0	60.9	-	-	74	-13.1	108	338	H
5	* 5.46	31.99	RMS	34.4	-18	.16	48.55	54	-5.45	-	-	108	338	H
4	5.466	47.36	Pk	34.4	-18	0	63.76	-	-	68.2	-4.44	108	338	H
3	5.47	42.22	Pk	34.4	-18	0	58.62	-	-	68.2	-9.58	108	338	H

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

Pk - Peak detector

RMS - RMS detection



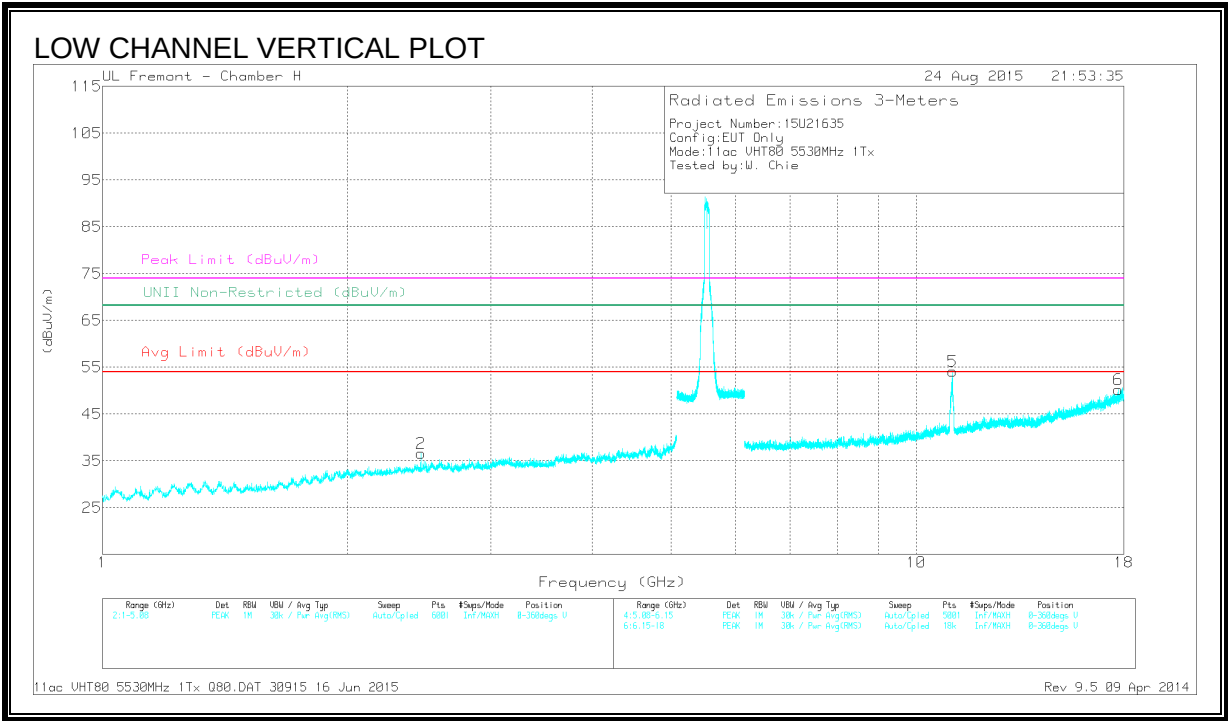
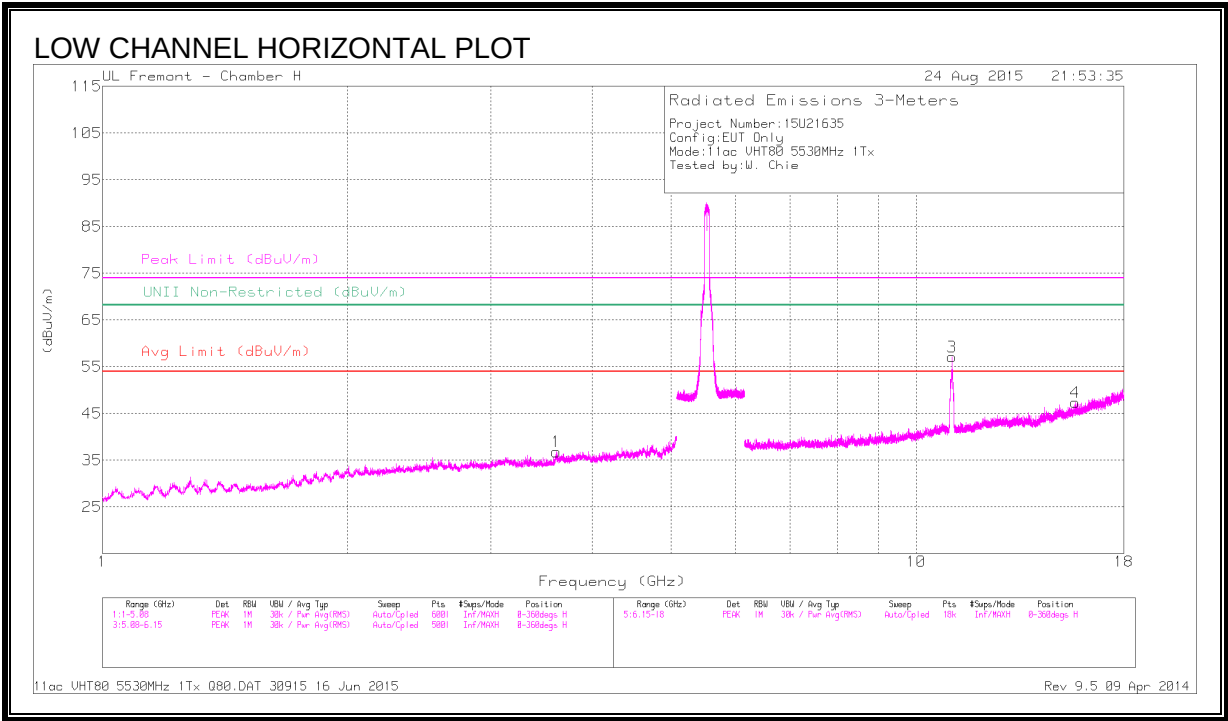
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Ftr r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.459	45.67	Pk	34.4	-18	0	62.07	-	-	74	-11.93	265	306	V
6	* 5.459	32.45	RMS	34.4	-18	.16	49.01	54	-4.99	-	-	265	306	V
1	* 5.46	46.12	Pk	34.4	-18	0	62.52	-	-	74	-11.48	265	306	V
5	* 5.46	31.85	RMS	34.4	-18	.16	48.41	54	-5.59	-	-	265	306	V
4	5.465	47.15	Pk	34.4	-18	0	63.55	-	-	68.2	-4.65	265	306	V
3	5.47	43.08	Pk	34.4	-18	0	59.48	-	-	68.2	-8.72	265	306	V

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

Pk - Peak detector

RMS - RMS detection



DATA

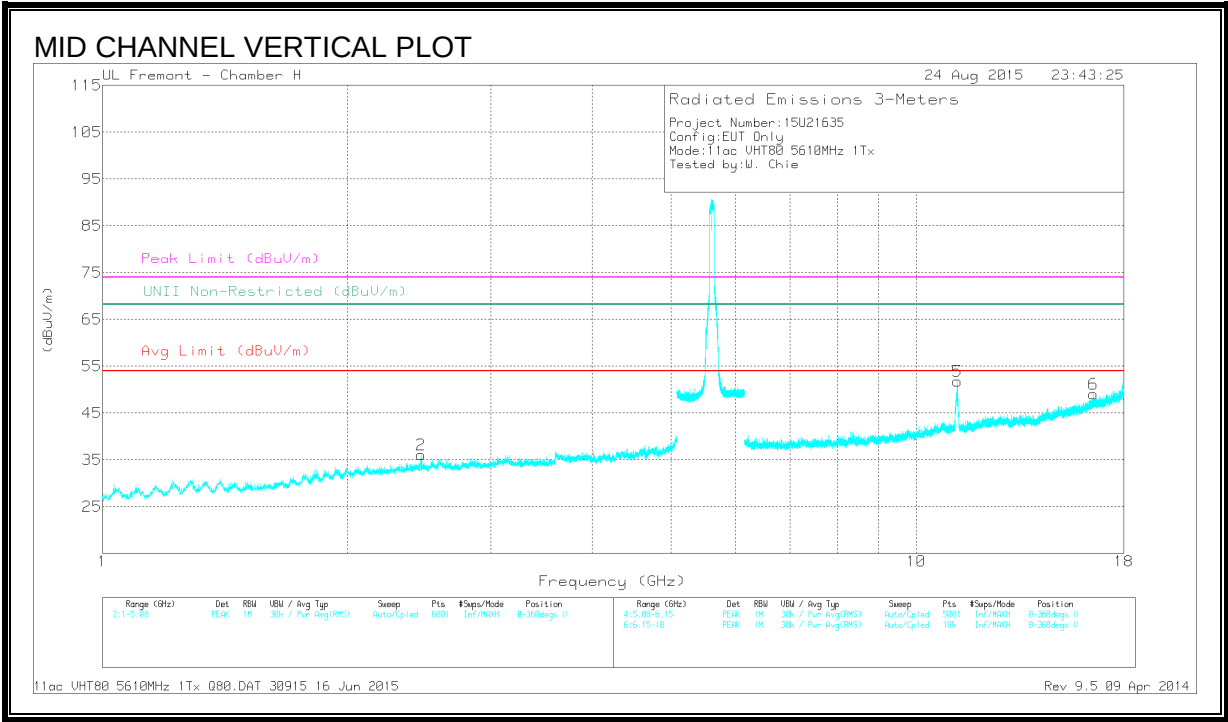
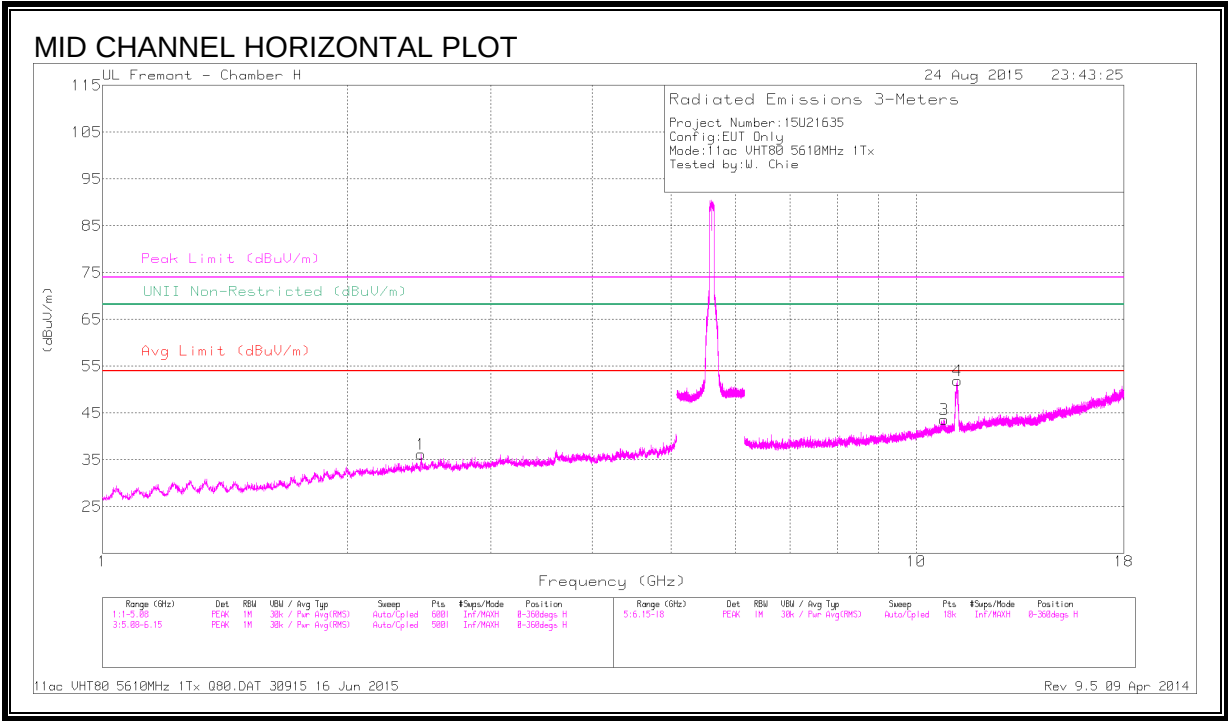
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.611	42.05	PK-U	33	-31.6	0	43.45	-	-	74	-30.55	-	-	144	379	H
	* 3.61	30.09	ADR	33	-31.6	.16	31.64	54	-22.36	-	-	-	-	144	379	H
3	* 11.077	49.13	PK-U	37.7	-24.5	0	62.33	-	-	74	-11.67	-	-	4	100	H
	* 11.079	36.5	ADR	37.7	-24.5	.16	49.85	54	-4.15	-	-	-	-	4	100	H
4	* 15.688	35.52	PK-U	40.9	-23.4	0	53.02	-	-	74	-20.98	-	-	69	148	H
	* 15.69	23.97	ADR	40.9	-23.4	.16	41.62	54	-12.38	-	-	-	-	69	148	H
5	* 11.08	44.75	PK-U	37.7	-24.4	0	58.05	-	-	74	-15.95	-	-	3	117	V
	* 11.079	32.89	ADR	37.7	-24.5	.16	46.24	54	-7.76	-	-	-	-	3	117	V
6	* 17.708	34.45	PK-U	42	-20.5	0	55.95	-	-	74	-18.05	-	-	26	158	V
	* 17.71	23.17	ADR	42	-20.5	.16	44.82	54	-9.18	-	-	-	-	26	158	V
2	2.465	45.21	PK-U	32.3	-33.4	0	44.11	-	-	-	-	68.2	-24.09	128	177	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

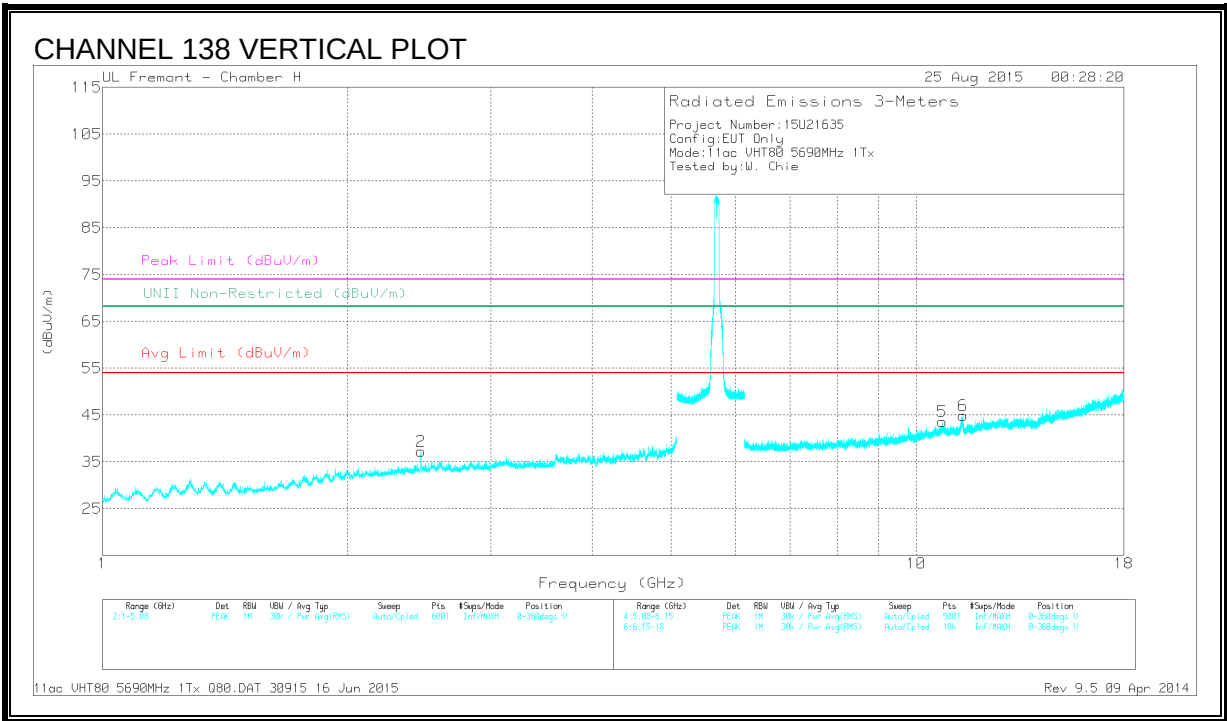
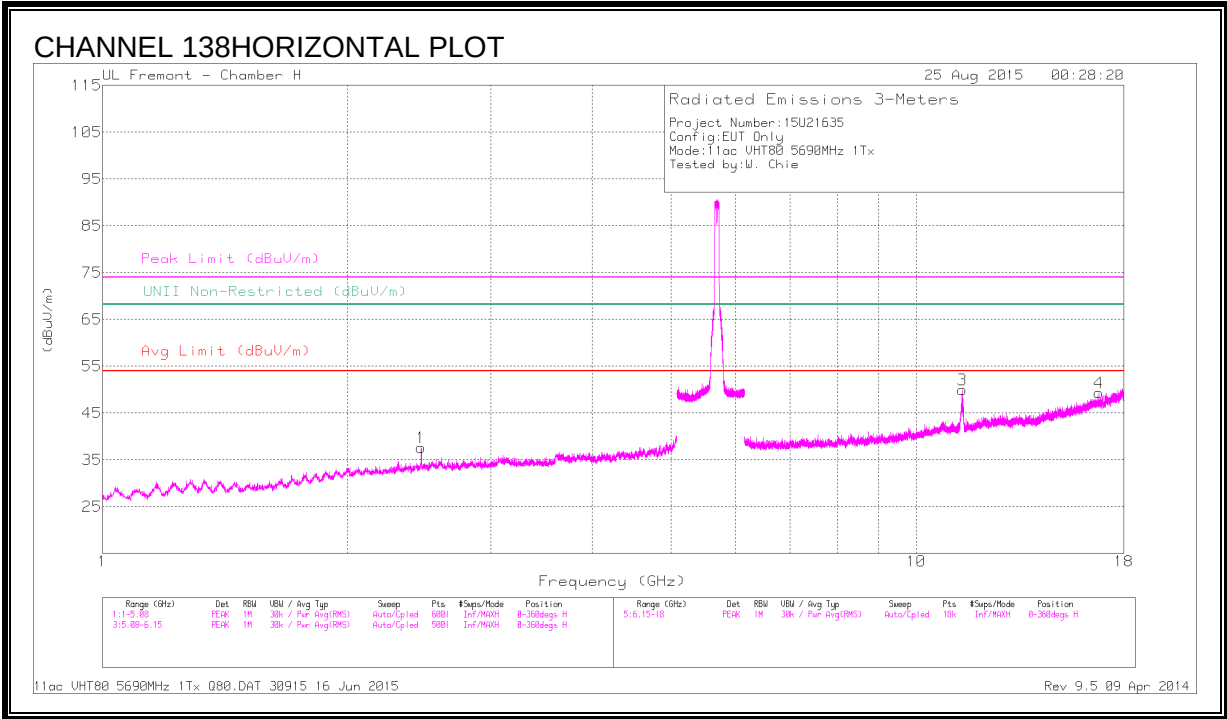
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 10.832	35.87	PK-U	37.9	-24.4	0	49.37	-	-	74	-24.63	-	-	310	375	H
	* 10.832	24.33	ADR	37.9	-24.4	.16	37.98	54	-16.02	-	-	-	-	310	375	H
4	* 11.236	45.54	PK-U	37.8	-24.9	0	58.44	-	-	74	-15.56	-	-	311	112	H
	* 11.234	32.65	ADR	37.8	-24.9	.16	45.7	54	-8.3	-	-	-	-	311	112	H
5	* 11.236	44.48	PK-U	37.8	-24.9	0	57.38	-	-	74	-16.62	-	-	174	101	V
	* 11.234	31.72	ADR	37.8	-24.9	.16	44.77	54	-9.23	-	-	-	-	174	101	V
1	2.465	44.31	PK-U	32.3	-33.4	0	43.21	-	-	-	-	68.2	-24.99	37	231	H
2	2.466	42.91	PK-U	32.3	-33.4	0	41.81	-	-	-	-	68.2	-26.39	56	211	V
6	16.515	35.17	PK-U	41.9	-22.4	0	54.67	-	-	-	-	68.2	-13.53	198	170	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

CHANNEL 138 HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.516	42.21	PK-U	33.9	-31.4	0	44.71	-	-	74	-29.29	-	-	142	215	H
	* 4.517	30.44	ADR	33.9	-31.4	.16	33.12	54	-20.88	-	-	-	-	142	215	H
5	* 8.352	37.86	PK-U	35.9	-26.9	0	46.86	-	-	74	-27.14	-	-	59	343	V
	* 8.354	26.24	ADR	35.9	-27	.16	35.32	54	-18.68	-	-	-	-	59	343	V
6	* 10.647	36.4	PK-U	37.7	-25.3	0	48.8	-	-	74	-25.2	-	-	291	205	V
	* 10.647	24.59	ADR	37.7	-25.3	.16	37.17	54	-16.83	-	-	-	-	291	205	V
4	2.462	45.48	PK-U	32.3	-33.4	0	44.38	-	-	-	-	68.2	-23.82	167	291	V
2	7.781	39.26	PK-U	35.9	-28.4	0	46.76	-	-	-	-	68.2	-21.44	146	111	H
3	10.363	40.8	PK-U	37.2	-25.1	0	52.9	-	-	-	-	68.2	-15.3	146	111	H

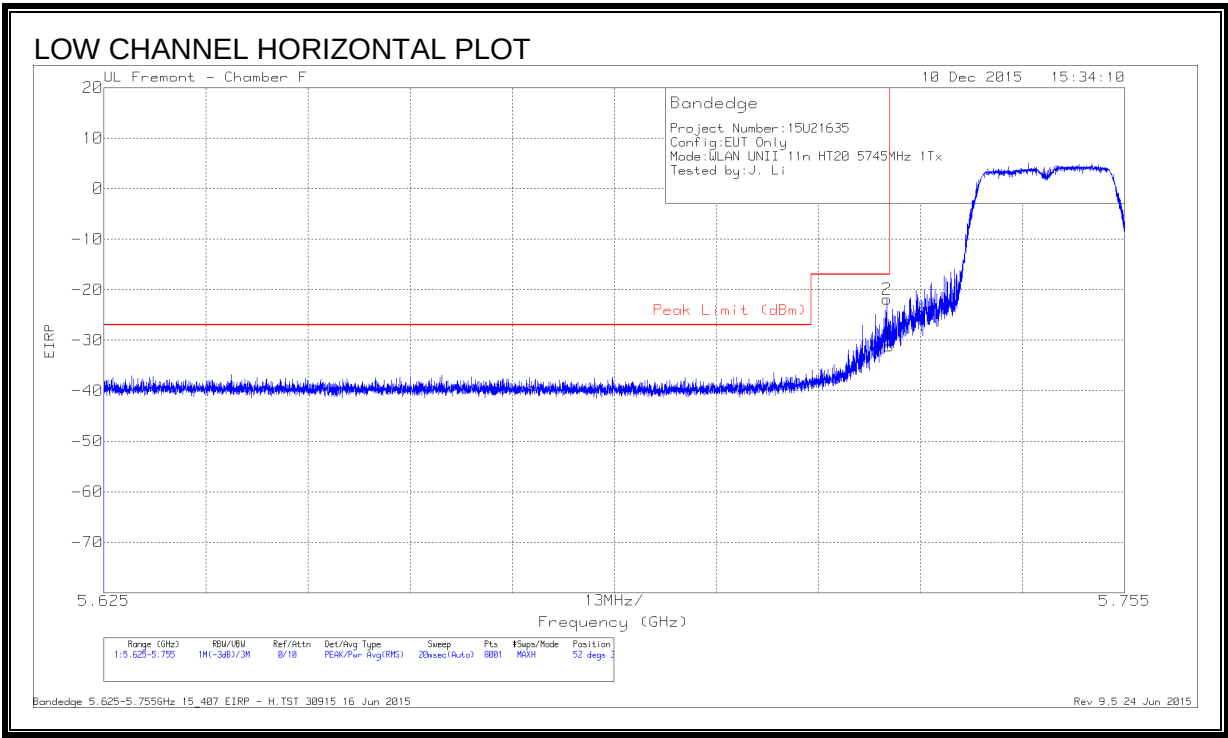
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.12. 802.11n HT20 1Tx MODE IN THE 5.8 GHz BAND

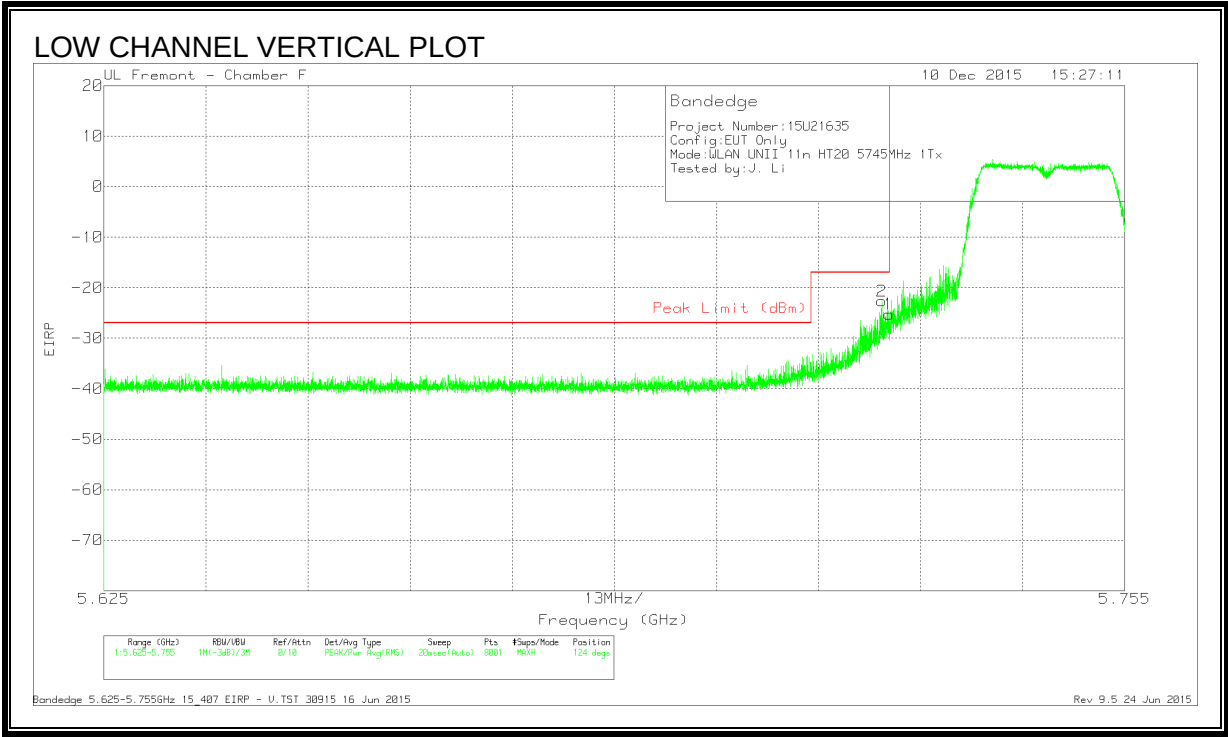
RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-59.49	Pk	34.9	-18.4	11.8	0	-31.19	-17	-14.19	52	399	H
2	5.725	-50.15	Pk	34.9	-18.4	11.8	0	-21.85	-17	-4.85	52	399	H

Pk - Peak detector

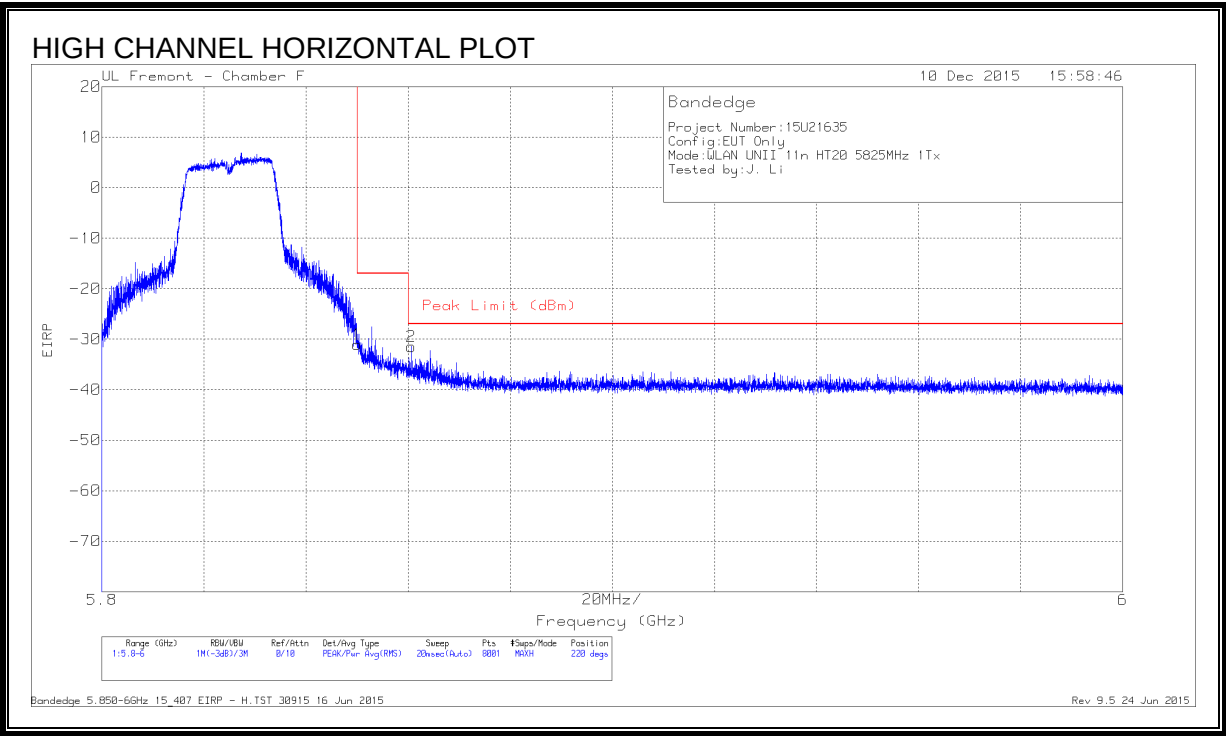


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-53.51	Pk	34.9	-18.4	11.8	0	-25.21	-17	-8.21	124	248	V
2	5.724	-50.93	Pk	34.9	-18.4	11.8	0	-22.63	-17	-5.63	124	248	V

Pk - Peak detector

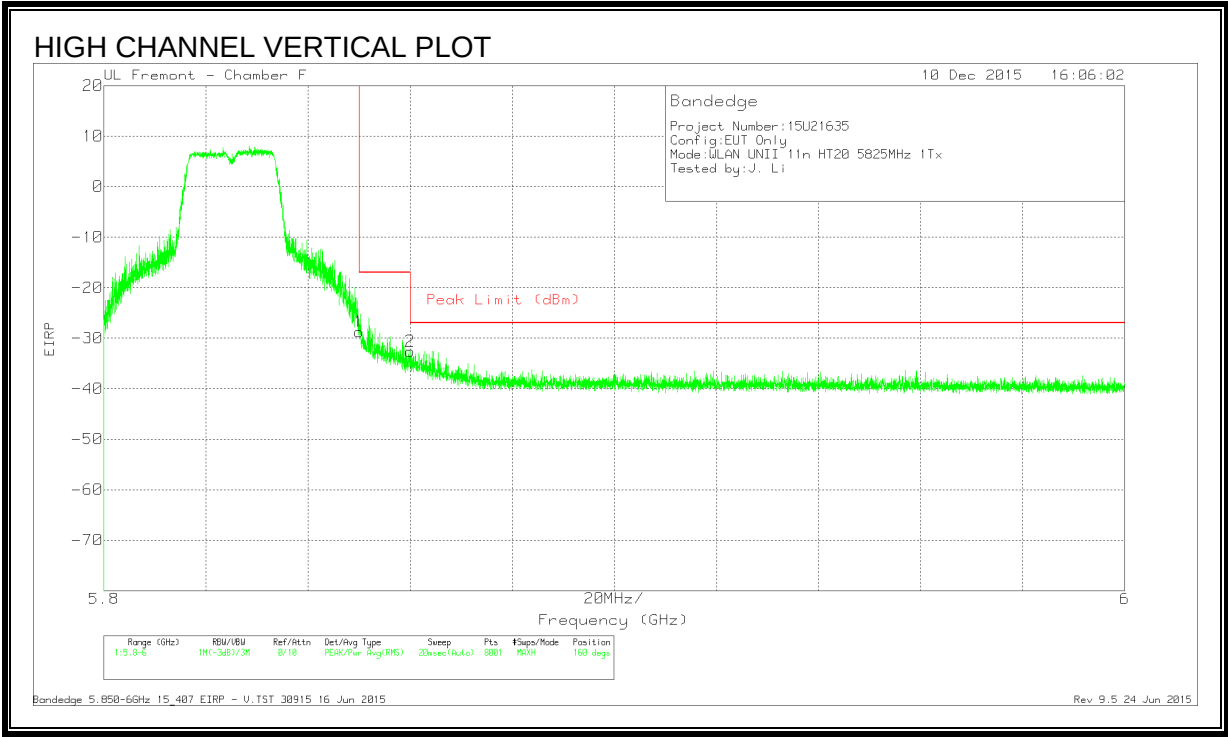
RESTRICTED BANDEDGE, CHAIN 0 (HIGH CHANNEL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.34	Pk	35.1	-18.6	11.8	0	-31.04	-17	-14.04	220	147	H
2	5.861	-59.65	Pk	35.1	-18.7	11.8	0	-31.45	-27	-4.45	220	147	H

Pk - Peak detector

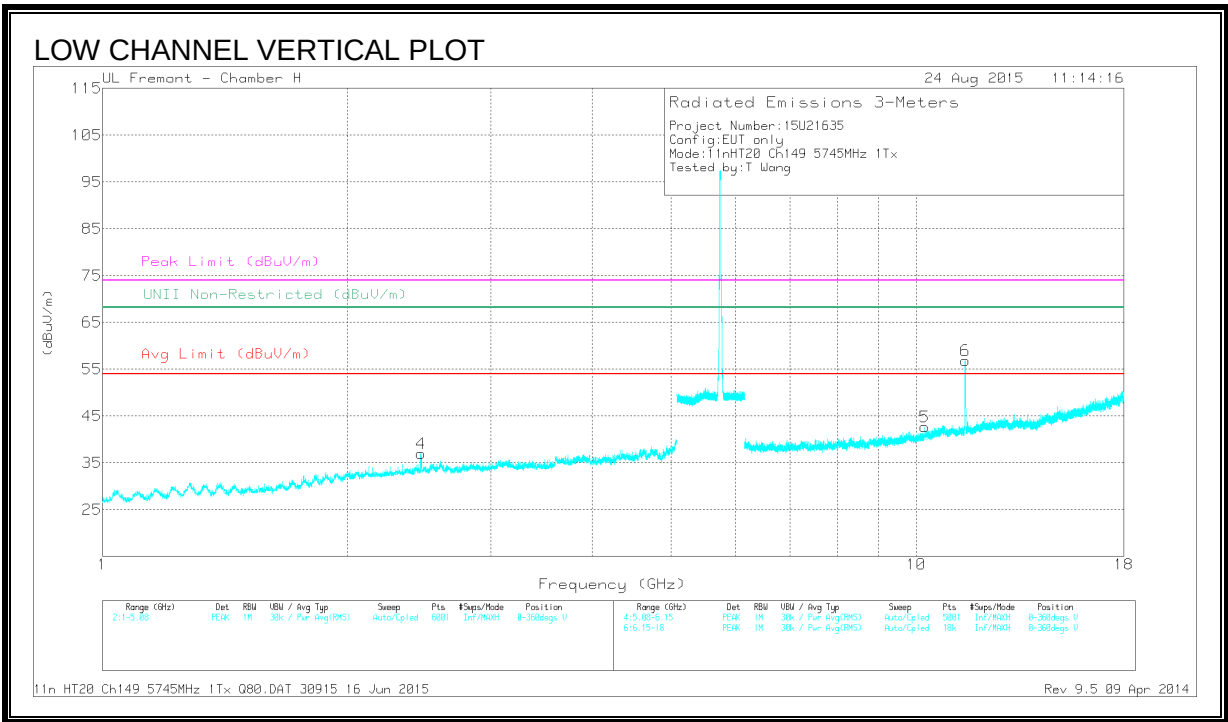
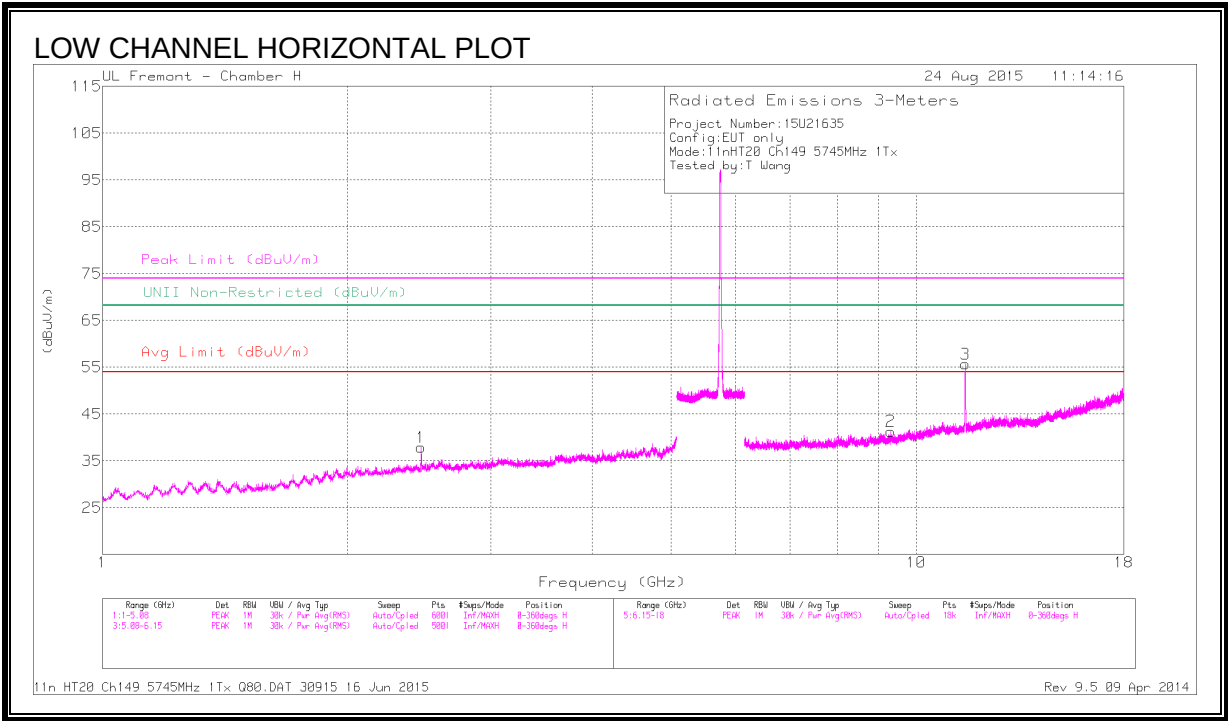


DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.01	Pk	35.1	-18.6	11.8	0	-28.71	-17	-11.71	160	204	V
2	5.86	-60.78	Pk	35.1	-18.7	11.8	0	-32.58	-27	-5.58	160	204	V

Pk - Peak detector

LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

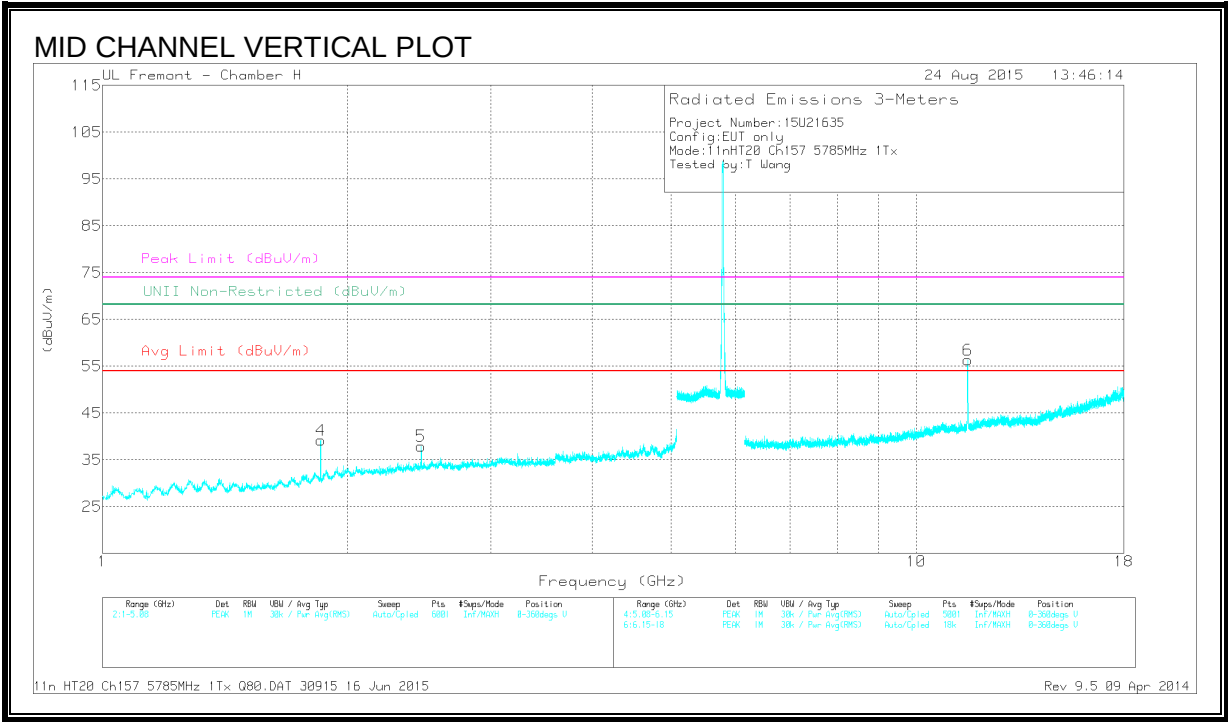
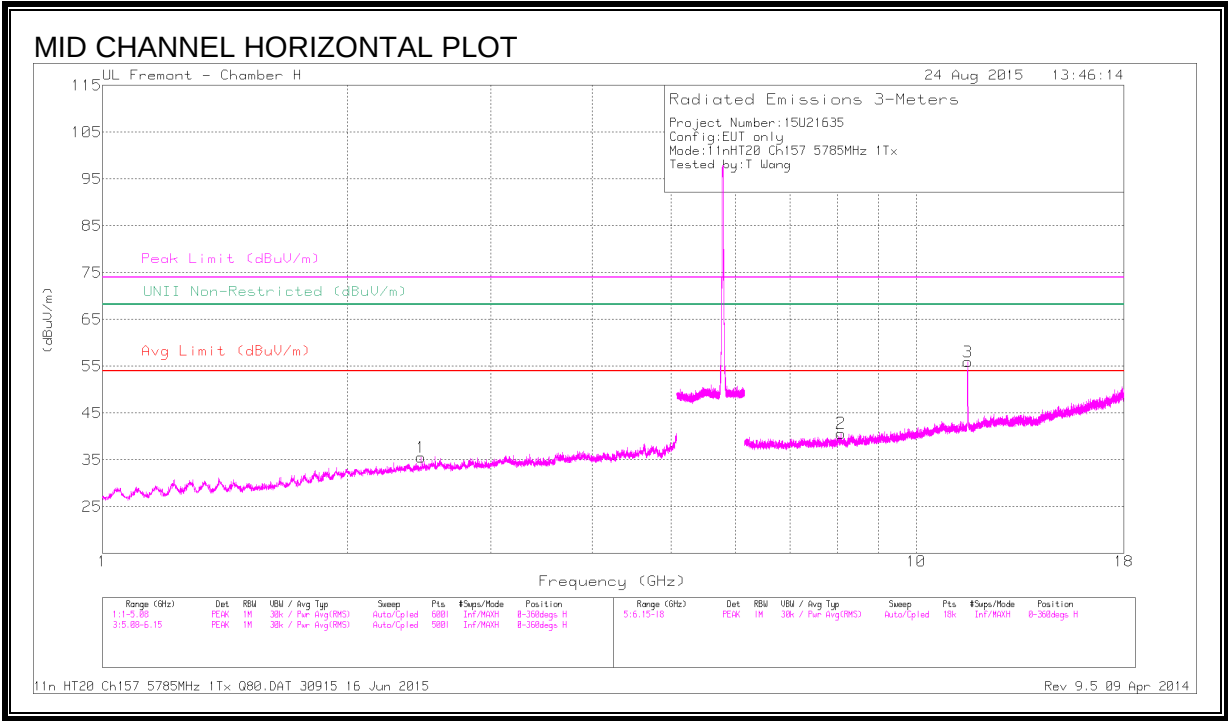
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11.492	53.58	PK-U	38	-25	66.58	-	-	74	-7.42	-	-	305	221	H
	* 11.49	39.65	ADR	38	-25	52.80	54	-1.20	-	-	-	-	305	221	H
3	* 9.305	37	PK-U	36.4	-26	47.4	-	-	74	-26.6	-	-	301	217	H
	* 9.303	26.01	ADR	36.4	-26	36.55	54	-17.44	-	-	-	-	301	217	H
6	* 11.489	52.05	PK-U	38	-25	65.05	-	-	74	-8.95	-	-	4	117	V
	* 11.49	38.73	ADR	38	-25	51.88	54	-2.12	-	-	-	-	4	117	V
1	2.465	42.66	PK-U	32.3	-33.4	41.56	-	-	-	-	68.2	-26.64	279	213	H
4	2.466	42.74	PK-U	32.3	-33.4	41.64	-	-	-	-	68.2	-26.56	24	105	V
5	10.257	36.77	PK-U	37.1	-24.8	49.07	-	-	-	-	68.2	-19.13	11	121	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

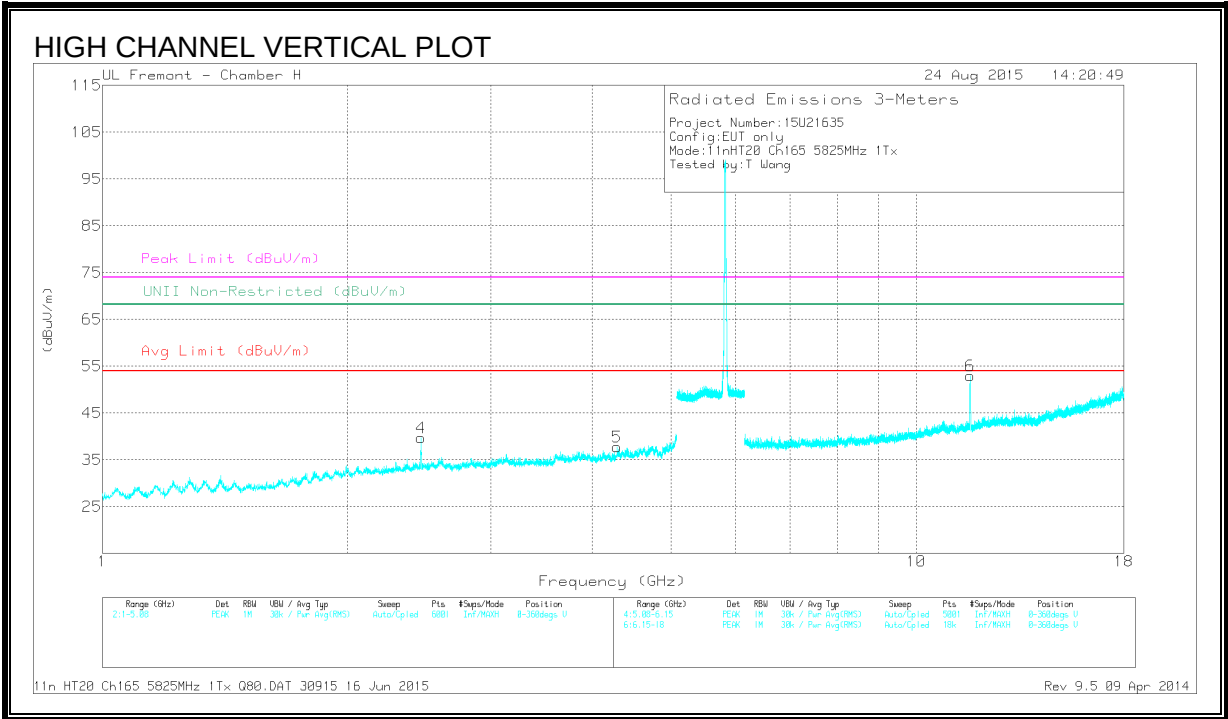
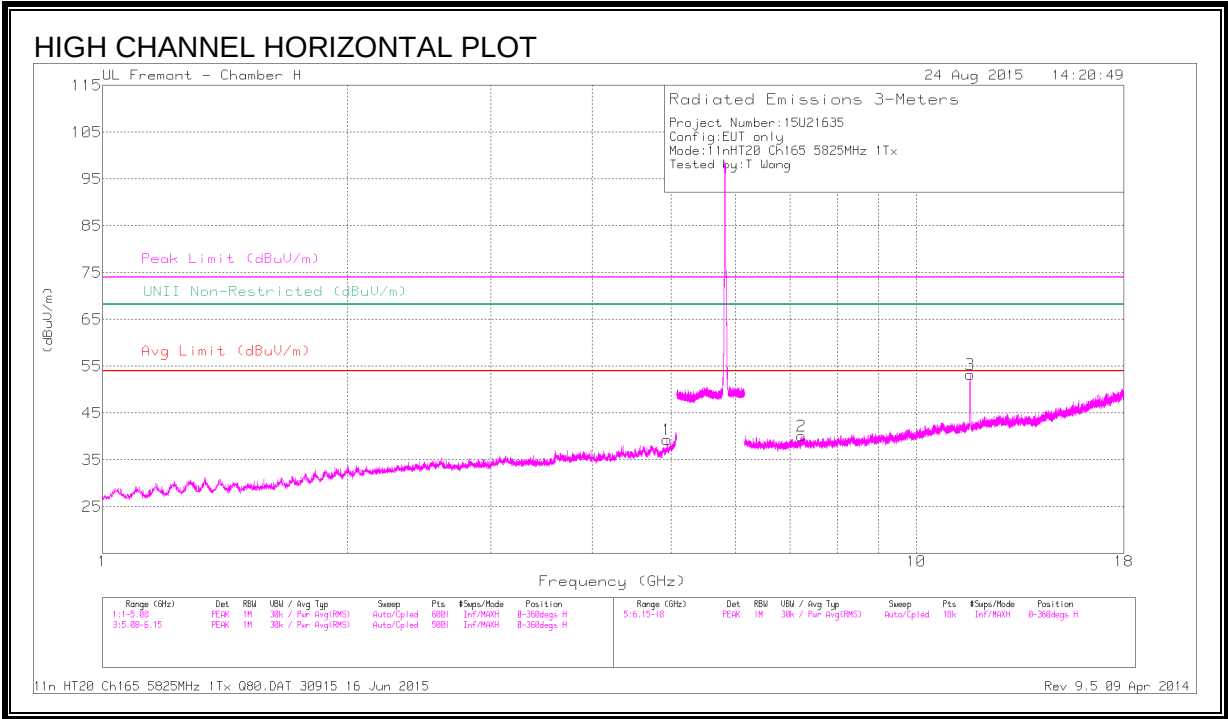
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11.569	51.61	PK-U	38	-24	65.61	-	-	74	-8.39	-	-	300	210	H
	* 11.569	38.24	ADR	38	-24	52.39	54	-1.61	-	-	-	-	300	210	H
3	* 8.085	38.06	PK-U	35.9	-27.3	46.66	-	-	74	-27.34	-	-	303	204	H
	* 8.084	27.29	ADR	35.9	-27.3	36.04	54	-17.96	-	-	-	-	303	204	H
6	* 11.569	51.19	PK-U	38	-24	65.19	-	-	74	-8.81	-	-	28	110	V
	* 11.57	37.93	ADR	38	-24	52.08	54	-1.92	-	-	-	-	28	110	V
4	1.854	42.31	PK-U	30.5	-34	38.81	-	-	-	-	68.2	-29.39	63	156	V
1	2.463	42.82	PK-U	32.3	-33.4	41.72	-	-	-	-	68.2	-26.48	248	166	H
5	2.464	43.24	PK-U	32.3	-33.4	42.14	-	-	-	-	68.2	-26.06	66	122	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.943	41.01	PK-U	34.2	-29.8	45.41	-	-	74	-28.59	-	-	327	177	H
	* 4.943	29.09	ADR	34.2	-29.8	33.49	54	-20.51	-	-	-	-	327	177	H
5	* 4.287	41.61	PK-U	33.6	-30.7	44.51	-	-	74	-29.49	-	-	194	147	V
	* 4.291	29.97	ADR	33.6	-30.7	32.87	54	-21.13	-	-	-	-	194	147	V
3	* 11.649	49.5	PK-U	38.1	-24.4	63.2	-	-	74	-10.8	-	-	323	219	H
	* 11.649	35.86	ADR	38.1	-24.4	49.56	54	-4.44	-	-	-	-	323	219	H
6	* 11.648	48.8	PK-U	38.1	-24.4	62.5	-	-	74	-11.5	-	-	30	100	V
	* 11.649	35.41	ADR	38.1	-24.4	49.11	54	-4.89	-	-	-	-	30	100	V
4	2.465	44.38	PK-U	32.3	-33.4	43.28	-	-	-	-	68.2	-24.92	211	152	V
2	7.228	38.96	PK-U	35.9	-28.2	46.66	-	-	-	-	68.2	-21.54	303	204	H

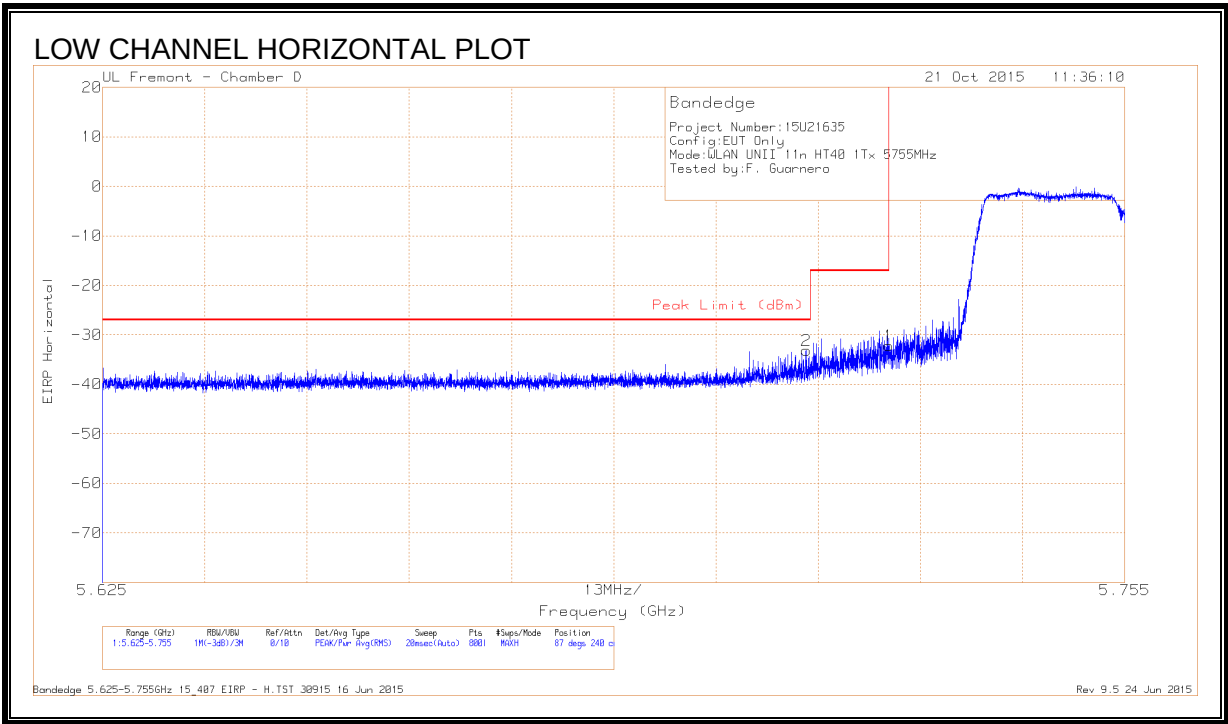
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.13. 802.11n HT40 1Tx MODE IN THE 5.8 GHz BAND

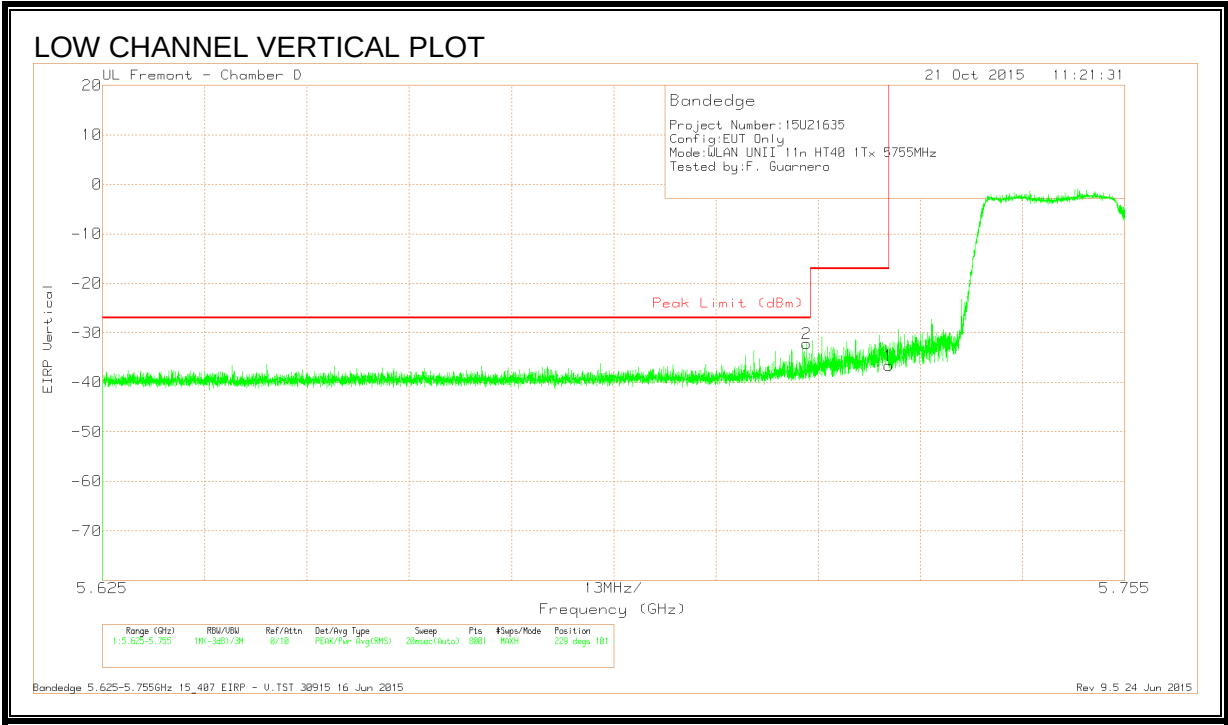
RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-62.08	Pk	34.6	-17.5	11.8	-33.18	-27	-6.18	87	240	H
1	5.725	-60.94	Pk	34.6	-17.6	11.8	-32.14	-17	-15.14	87	240	H

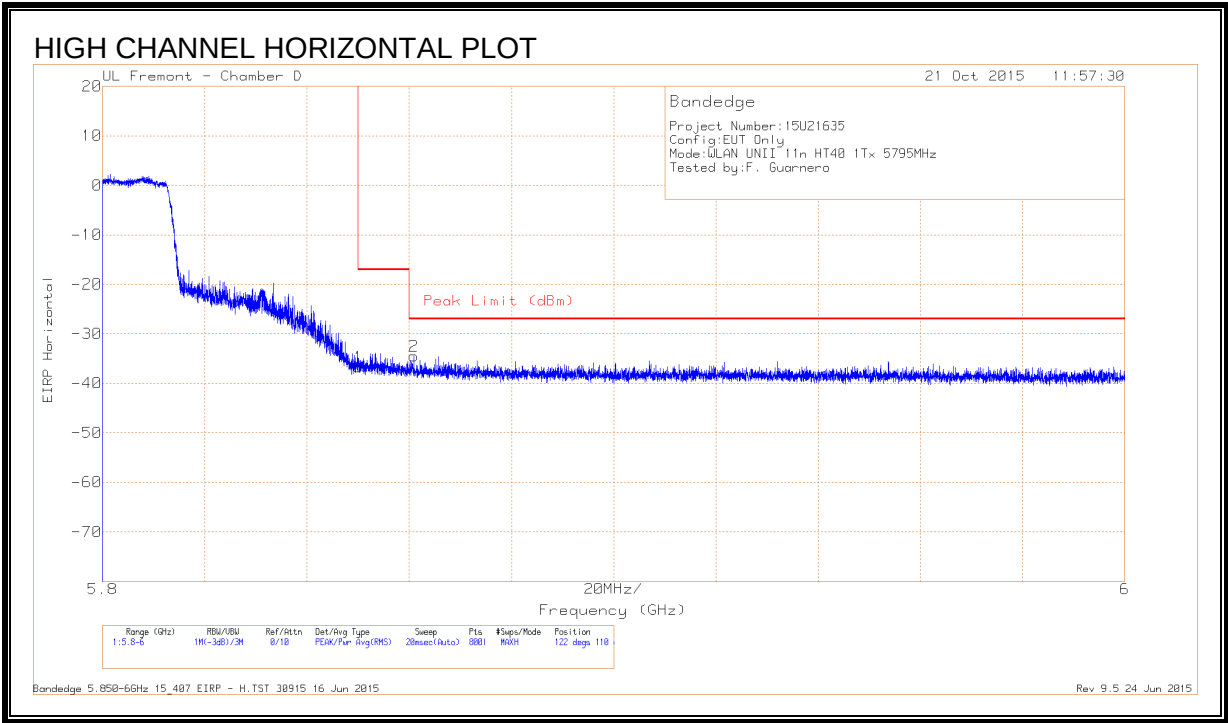
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-61.11	Pk	34.6	-17.5	11.8	-32.21	-27	-5.21	229	101	V
1	5.725	-65.34	Pk	34.6	-17.6	11.8	-36.54	-17	-19.54	229	101	V

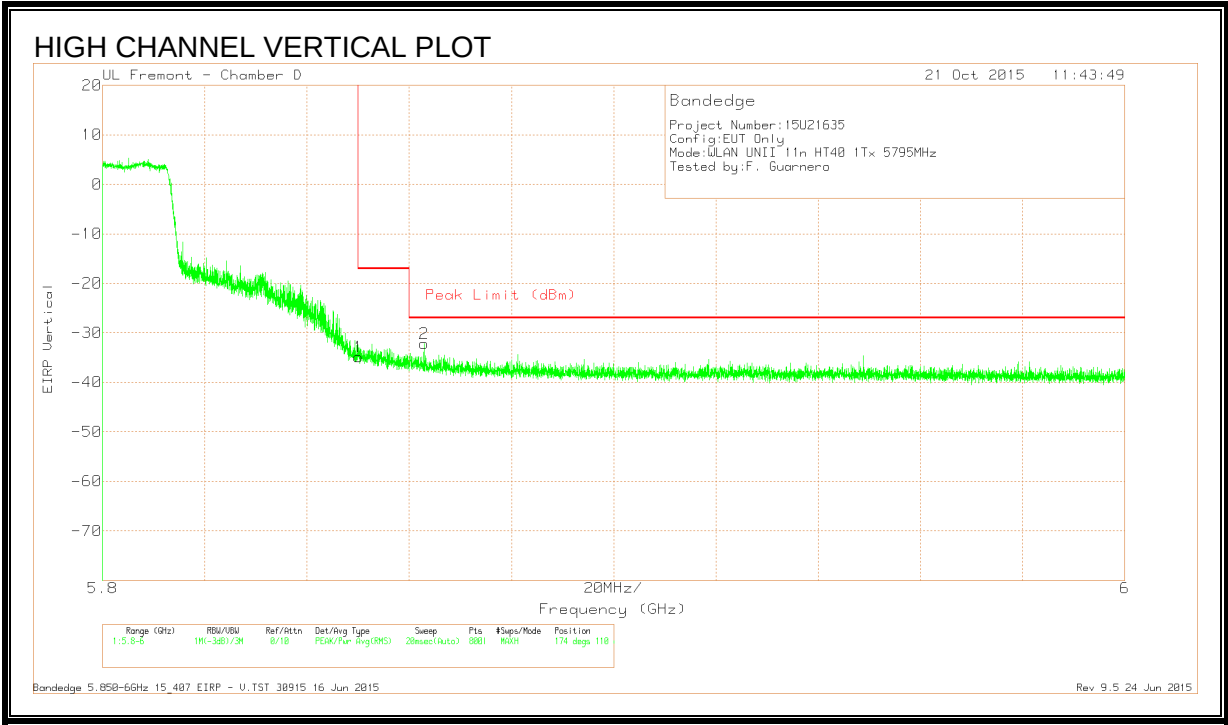
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.66	Pk	34.9	-17.7	11.8	-36.66	-17	-19.66	122	110	H
2	5.861	-63.72	Pk	35	-17.6	11.8	-34.52	-27	-7.52	122	110	H

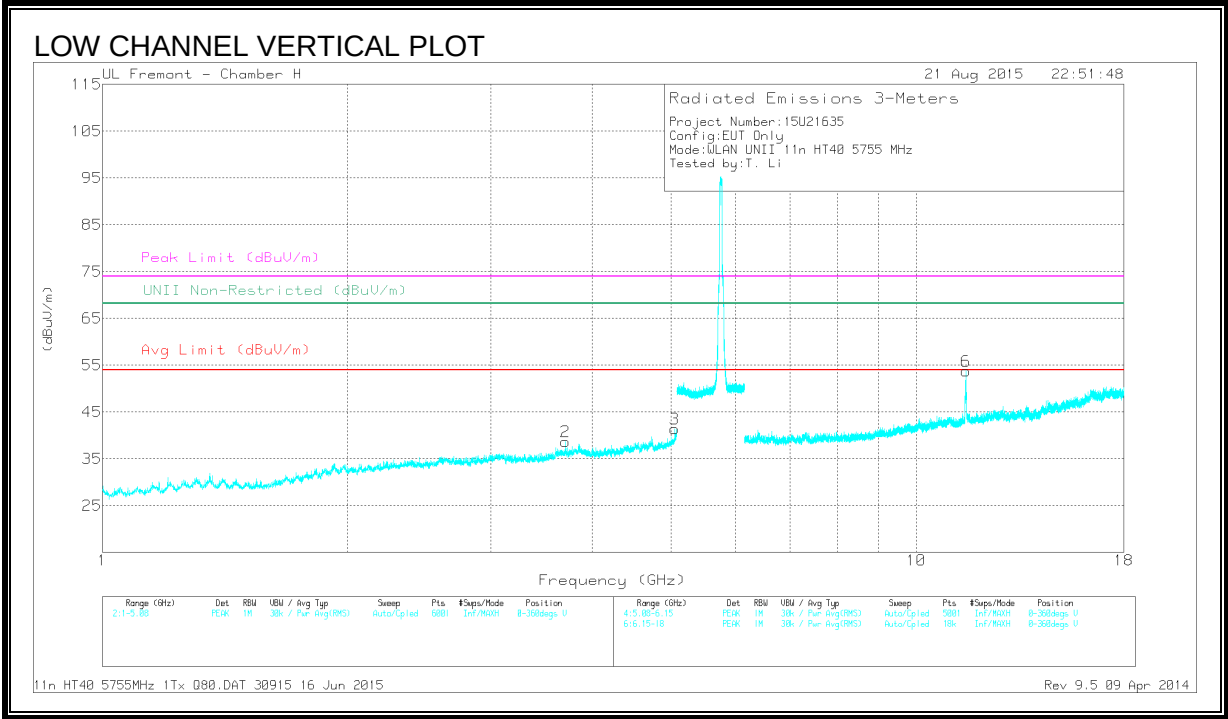
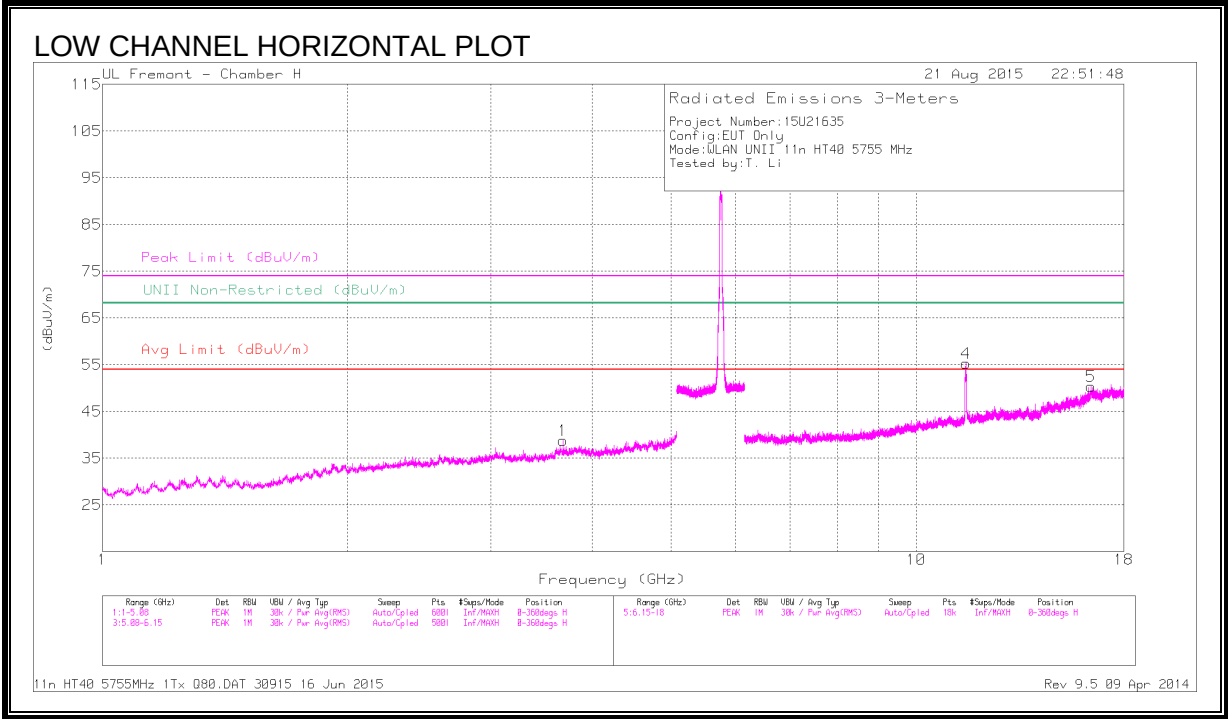
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-63.86	Pk	34.9	-17.7	11.8	-34.86	-17	-17.86	174	110	V
2	5.863	-61.4	Pk	35	-17.6	11.8	-32.2	-27	-5.2	174	110	V

Pk - Peak detector



DATA

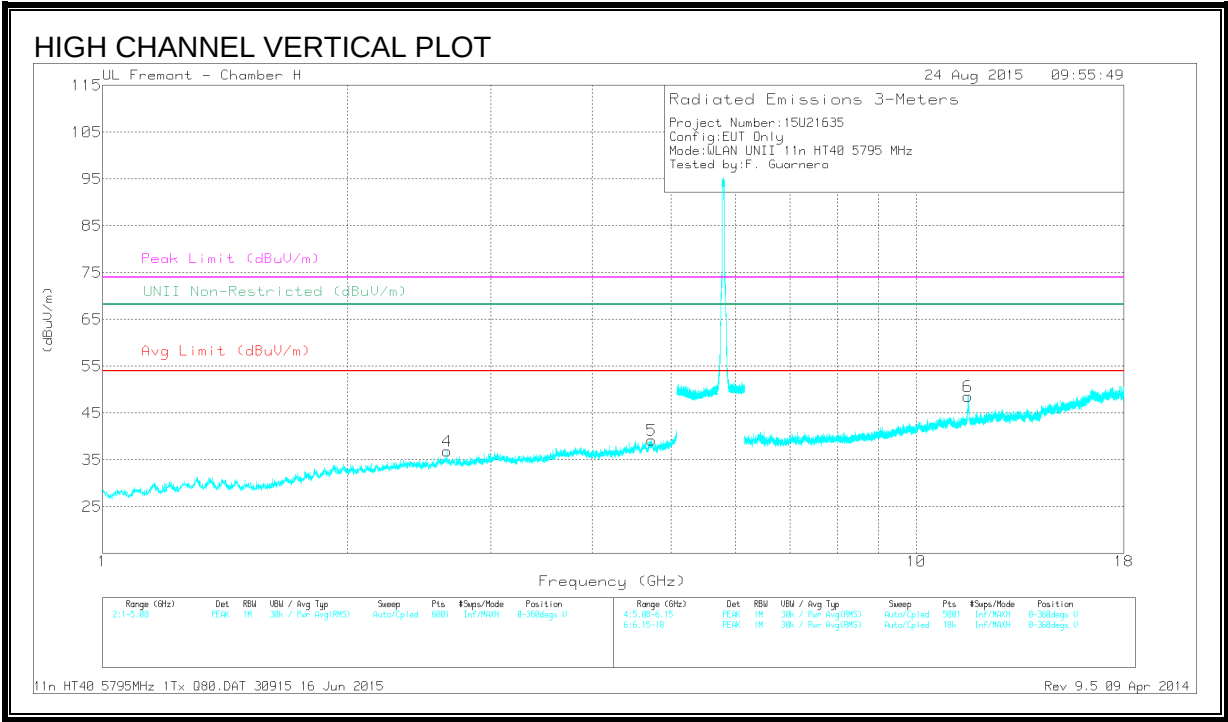
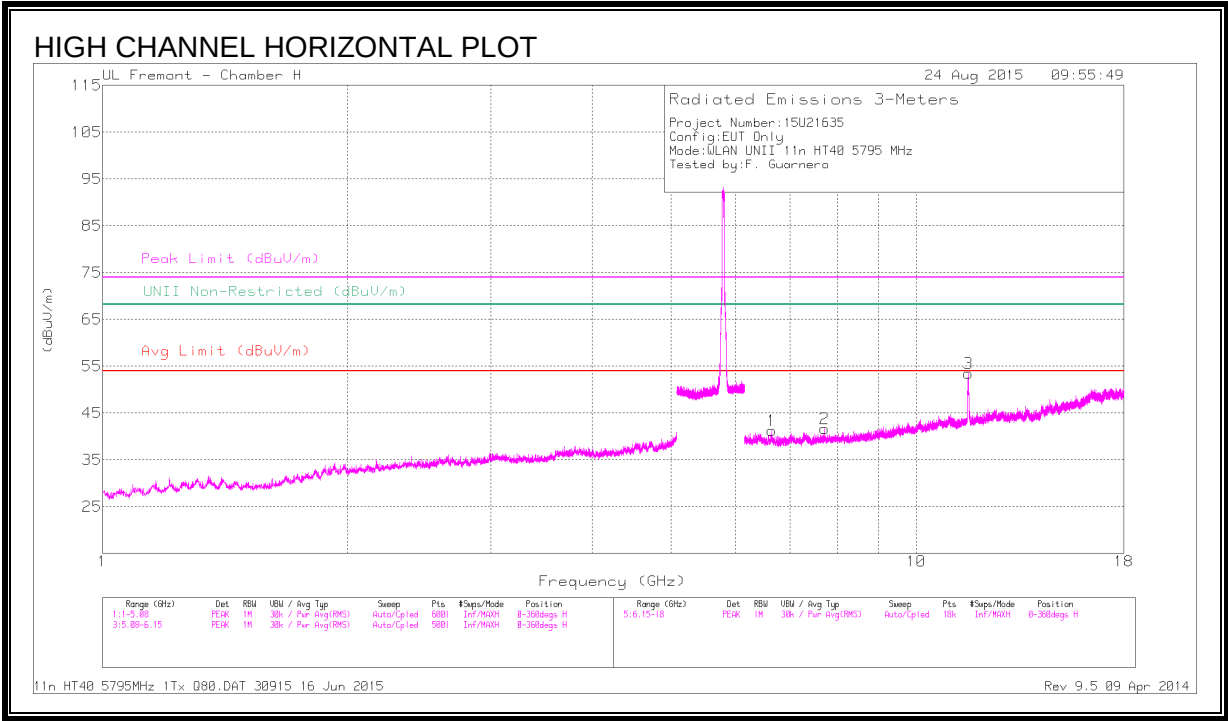
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.678	40.66	PK-U	33.2	-30.7	43.16	-	-	74	-30.84	-	-	48	189	H
	* 3.68	29.31	ADR	33.2	-30.7	31.81	54	-22.19	-	-	-	-	48	189	H
2	* 3.705	41.52	PK-U	33.2	-30.9	43.82	-	-	74	-30.18	-	-	132	209	V
	* 3.705	29.77	ADR	33.2	-30.9	32.07	54	-21.93	-	-	-	-	132	209	V
3	* 5.051	40.99	PK-U	34.2	-28.2	46.99	-	-	74	-27.01	-	-	195	294	V
	* 5.05	29.94	ADR	34.2	-28.2	35.94	54	-18.06	-	-	-	-	195	294	V
4	* 11.508	51.12	PK-U	38.1	-24	65.22	-	-	74	-8.78	-	-	262	355	H
	* 11.509	38.54	ADR	38.1	-24	52.64	54	-1.36	-	-	-	-	262	355	H
6	* 11.511	46.58	PK-U	38.1	-23.9	60.78	-	-	74	-13.22	-	-	40	104	V
	* 11.509	34.61	ADR	38.1	-24	48.71	54	-5.29	-	-	-	-	40	104	V
5	16.409	37.39	PK-U	41.1	-21.3	57.19	-	-	-	-	68.2	-11.01	282	190	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.644	38.7	PK-U	35.6	-26.7	47.6	-	-	-	-	68.2	-20.6	63	356	H
2	* 7.714	38.64	PK-U	35.8	-27	47.44	-	-	74	-26.56	-	-	275	312	H
	* 7.714	26.97	ADR	35.8	-27	35.77	54	-18.23	-	-	-	-	275	312	H
3	* 11.588	46.35	PK-U	38.1	-22.5	61.95	-	-	74	-12.05	-	-	135	335	H
	* 11.591	33.88	ADR	38.1	-22.5	49.48	54	-4.52	-	-	-	-	135	335	H
4	2.652	42.31	PK-U	32.4	-31.4	43.31	-	-	-	-	68.2	-24.89	213	364	V
5	* 4.732	40.83	PK-U	34.2	-28.9	46.13	-	-	74	-27.87	-	-	97	169	V
	* 4.732	29.06	ADR	34.2	-28.9	34.36	54	-19.64	-	-	-	-	97	169	V
6	* 11.584	43.43	PK-U	38.1	-22.4	59.13	-	-	74	-14.87	-	-	22	133	V
	* 11.591	31.33	ADR	38.1	-22.6	46.83	54	-7.17	-	-	-	-	22	133	V

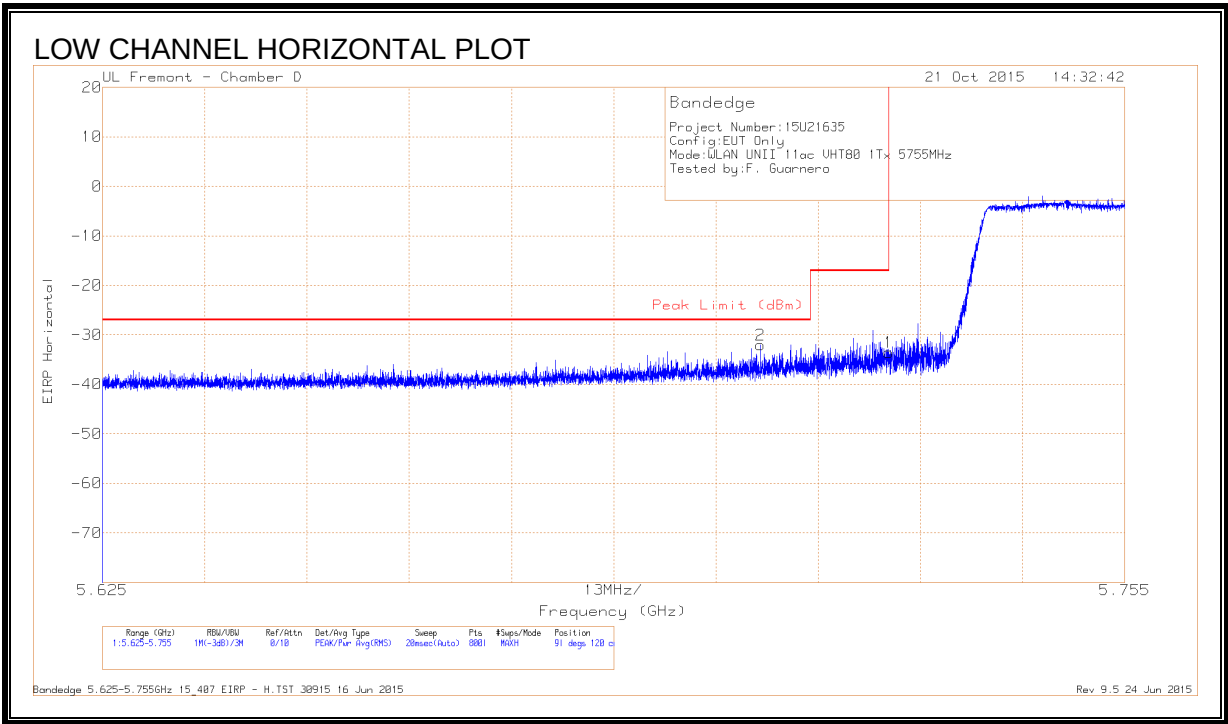
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.14. 802.11ac VHT80 1Tx MODE IN THE 5.8 GHz BAND

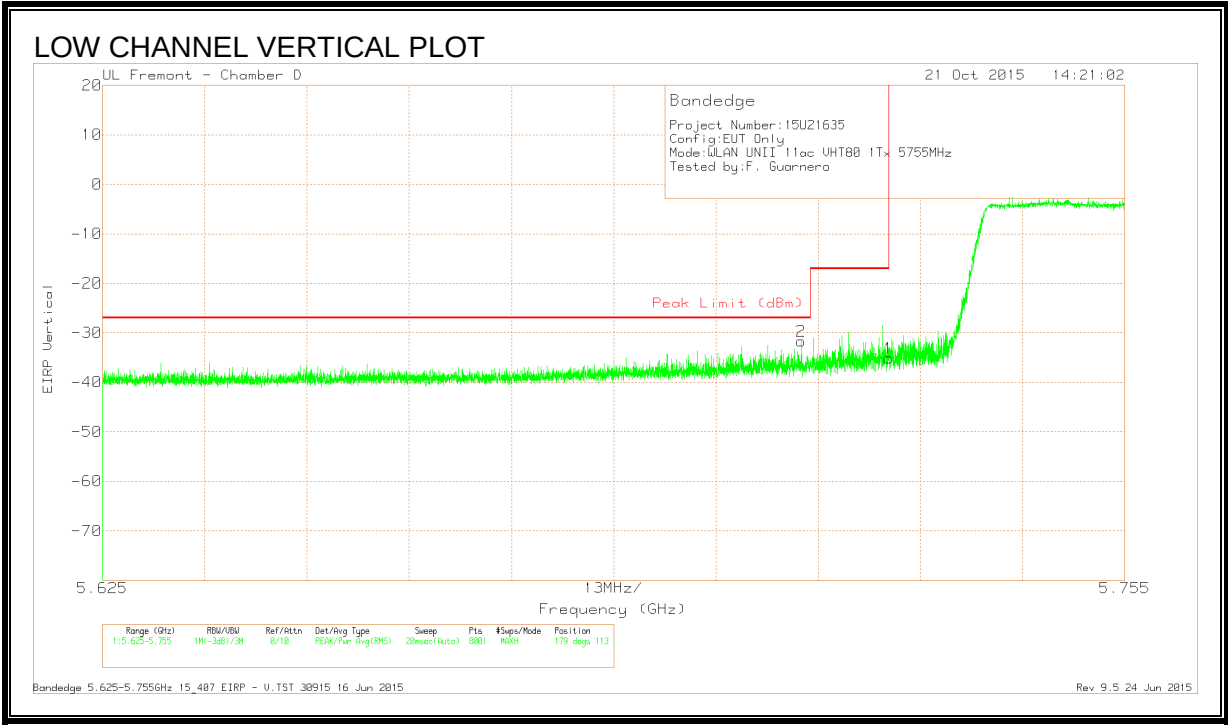
RESTRICTED BANDEDGE, CHAIN 0 (LOW)



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.709	-60.82	Pk	34.5	-17.5	11.8	-32.02	-27	-5.02	91	120	H
1	5.725	-62.37	Pk	34.6	-17.6	11.8	-33.57	-17	-16.57	91	120	H

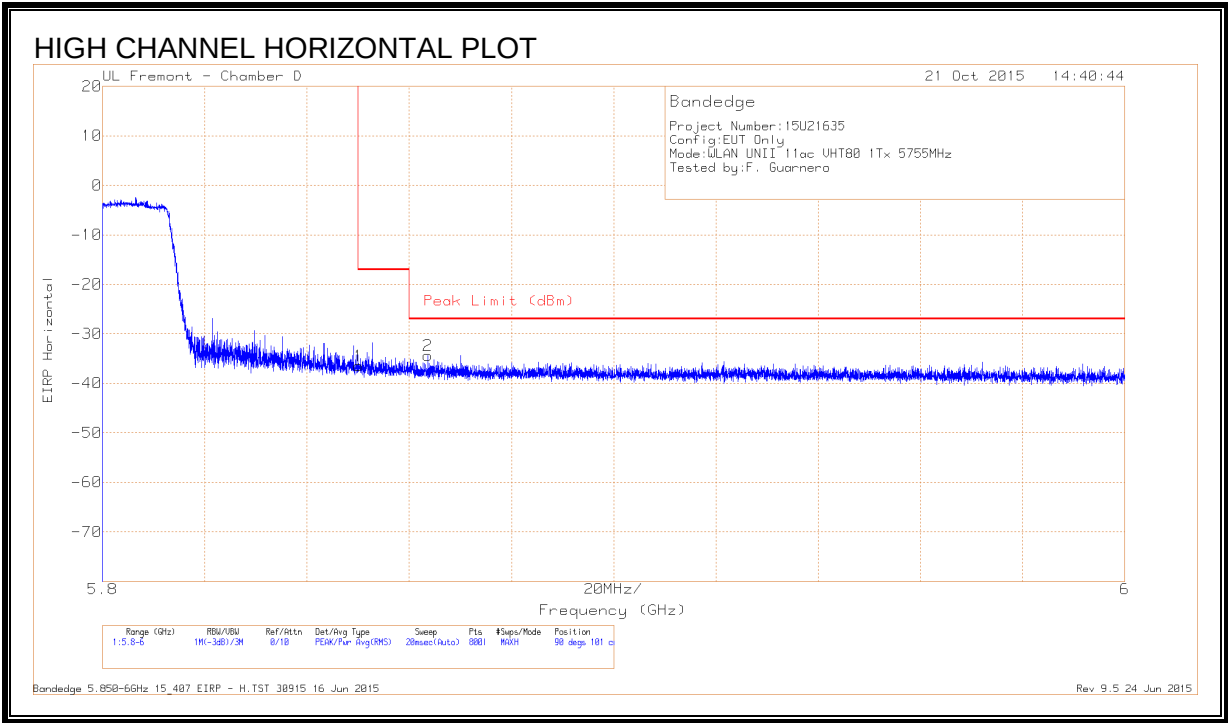
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-60.6	Pk	34.6	-17.5	11.8	-31.7	-27	-4.7	179	113	V
1	5.725	-63.87	Pk	34.6	-17.6	11.8	-35.07	-17	-18.07	179	113	V

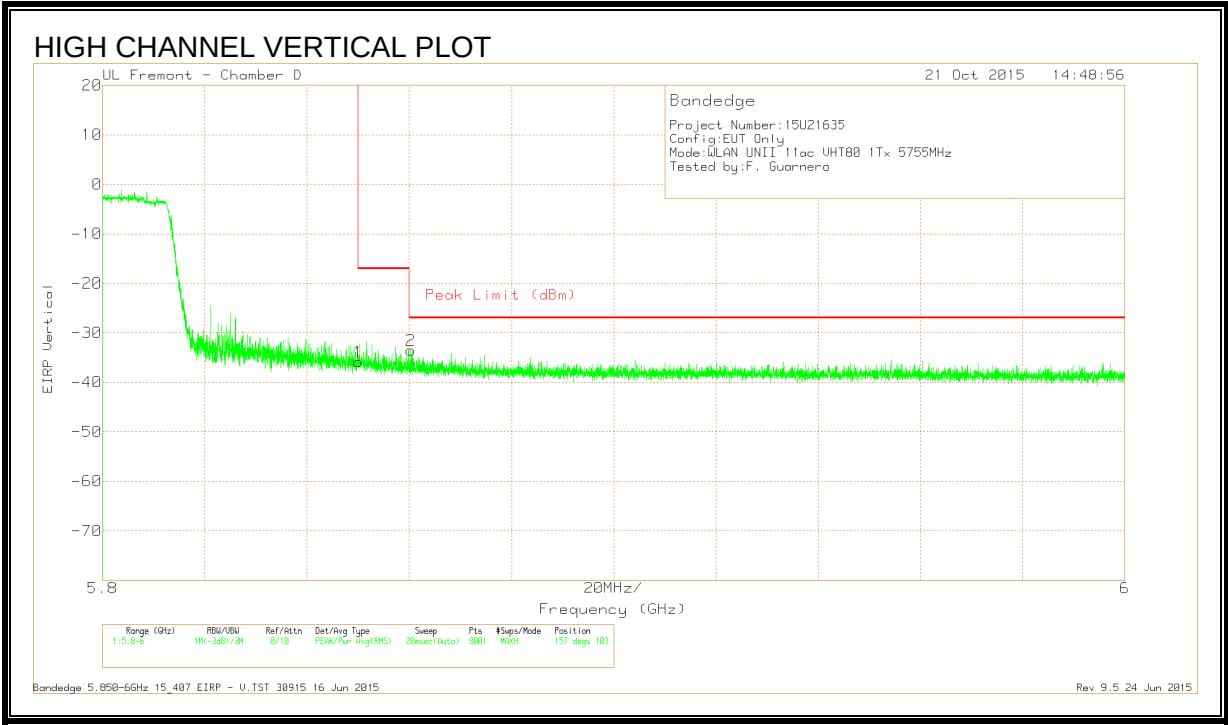
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.47	Pk	34.9	-17.7	11.8	-36.47	-17	-19.47	90	101	H
2	5.864	-63.59	Pk	35	-17.6	11.8	-34.39	-27	-7.39	90	101	H

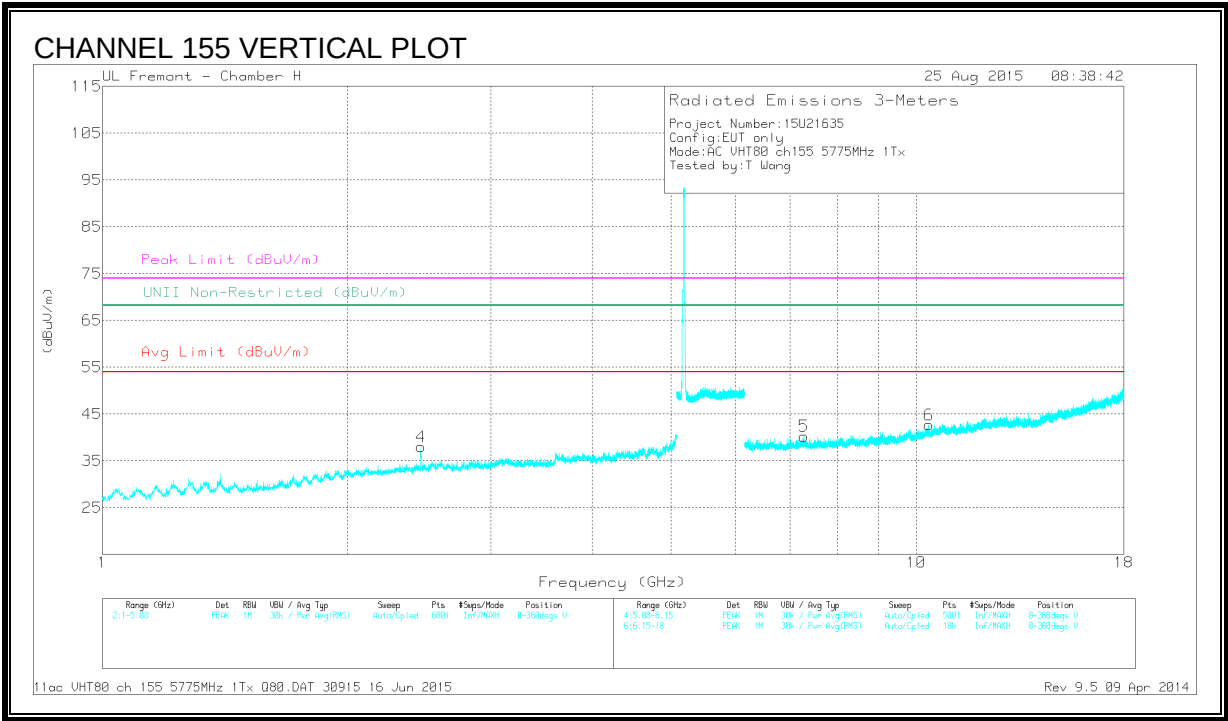
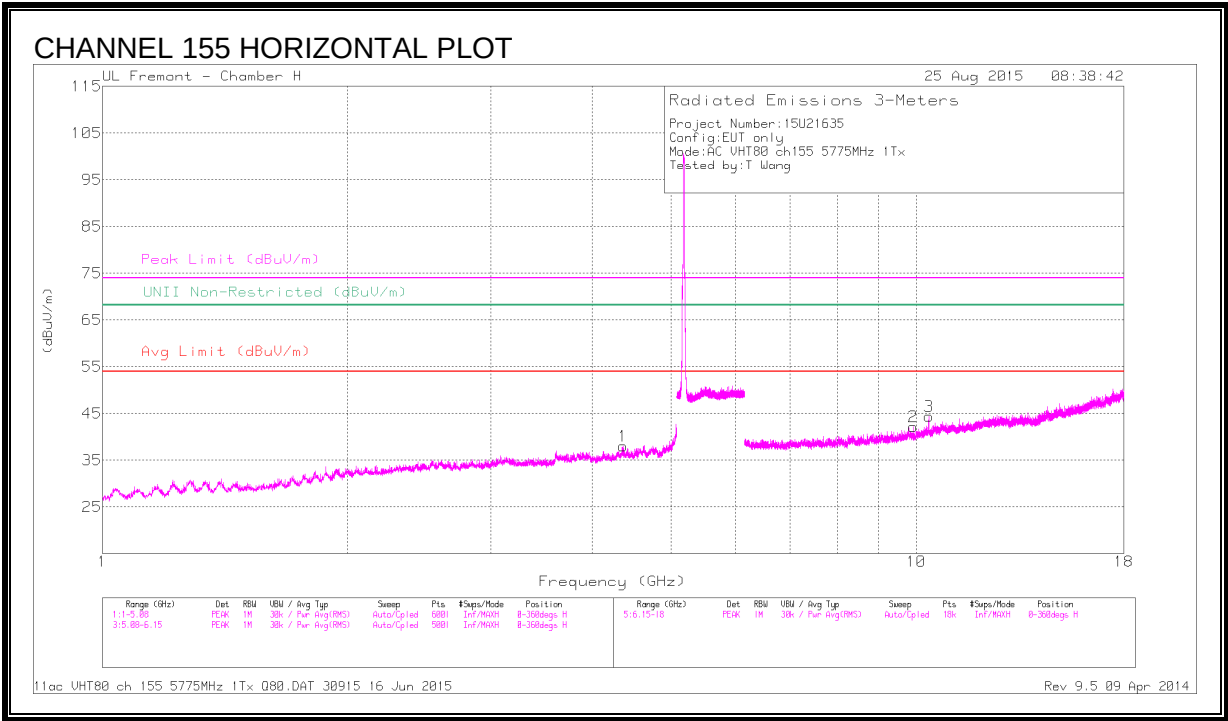
Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT344 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-64.85	Pk	34.9	-17.7	11.8	-35.85	-17	-18.85	157	103	V
2	5.86	-62.68	Pk	35	-17.6	11.8	-33.48	-27	-6.48	157	103	V

Pk - Peak detector



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fr tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.359	42.11	PK-U	33.6	-30.3	0	45.41	-	-	74	-28.59	-	-	175	254	H
	* 4.36	29.95	ADR	33.6	-30.2	.16	33.53	54	-20.47	-	-	-	-	175	254	H
5	* 7.284	39.93	PK-U	35.9	-28.8	0	47.03	-	-	74	-26.97	-	-	43	110	V
	* 7.284	27.89	ADR	35.9	-28.8	.16	35.17	54	-18.83	-	-	-	-	43	110	V
4	2.463	45.68	PK-U	32.3	-33.4	0	44.58	-	-	-	-	68.2	-23.62	68	128	V
2	9.913	37.19	PK-U	36.9	-25.8	0	48.29	-	-	-	-	68.2	-19.91	130	229	H
3	10.362	37.37	PK-U	37.2	-25.1	0	49.47	-	-	-	-	68.2	-18.73	136	224	H
6	10.369	36.73	PK-U	37.2	-25.1	0	48.83	-	-	-	-	68.2	-19.37	74	122	V

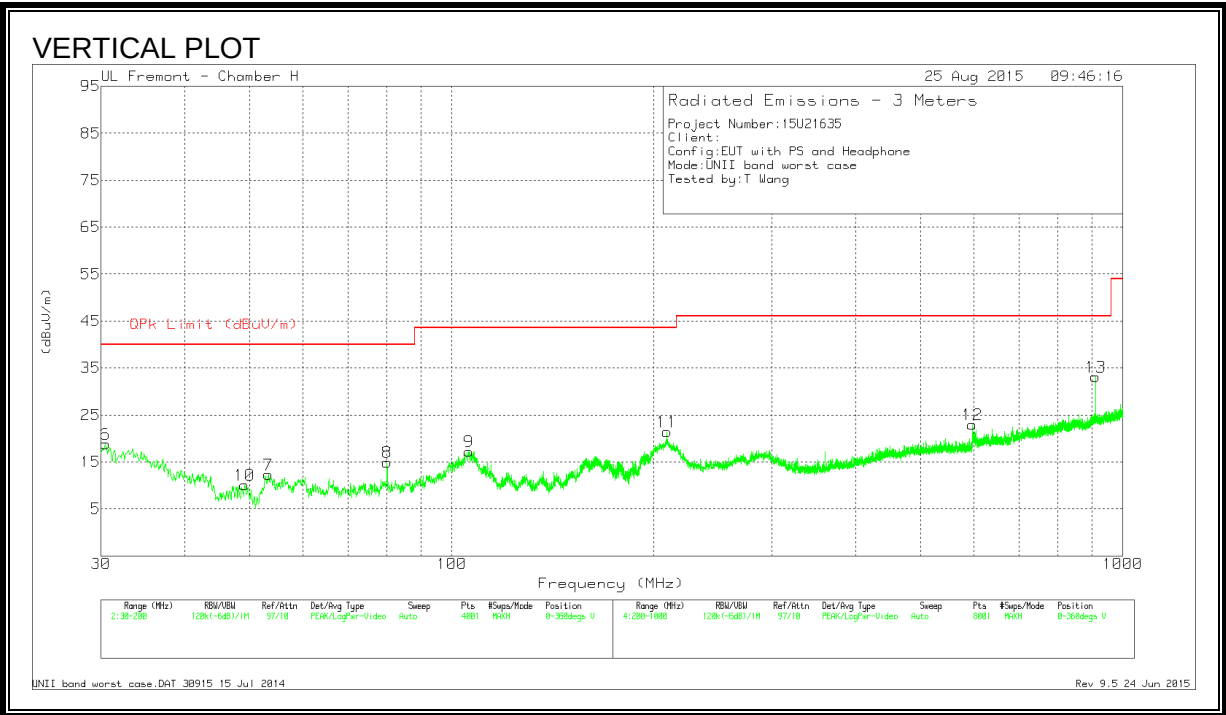
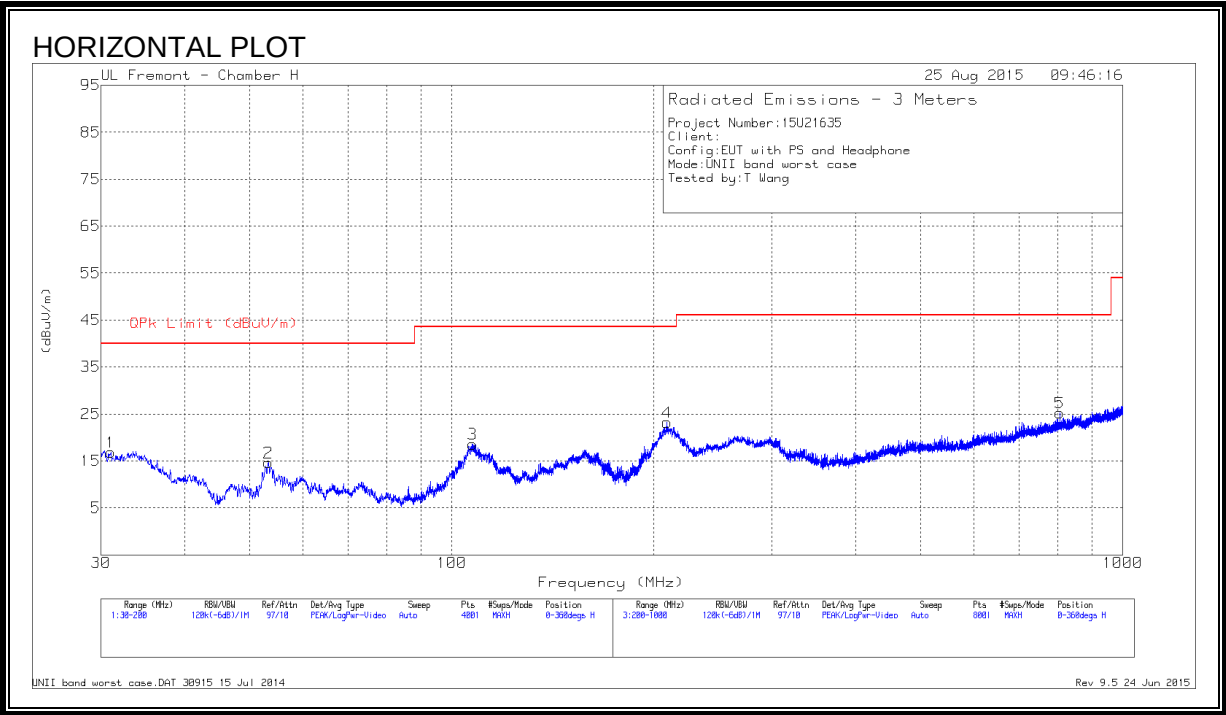
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.2. WORST-CASE BELOW 1 GHz

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



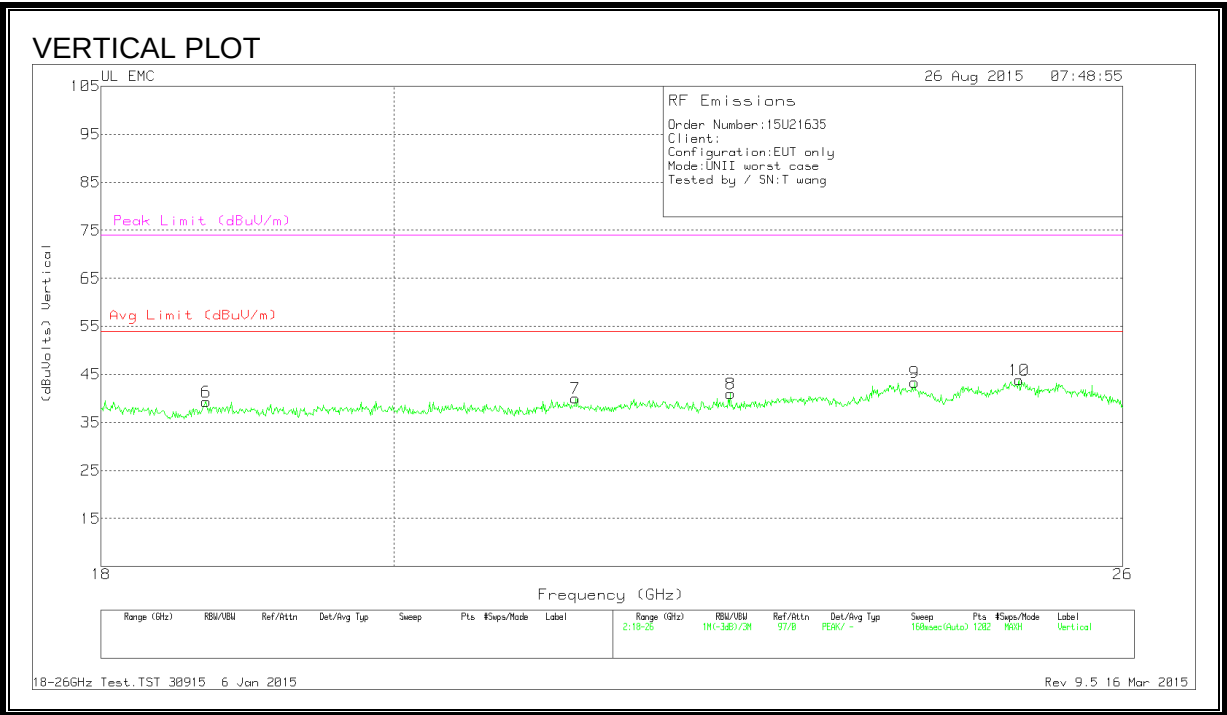
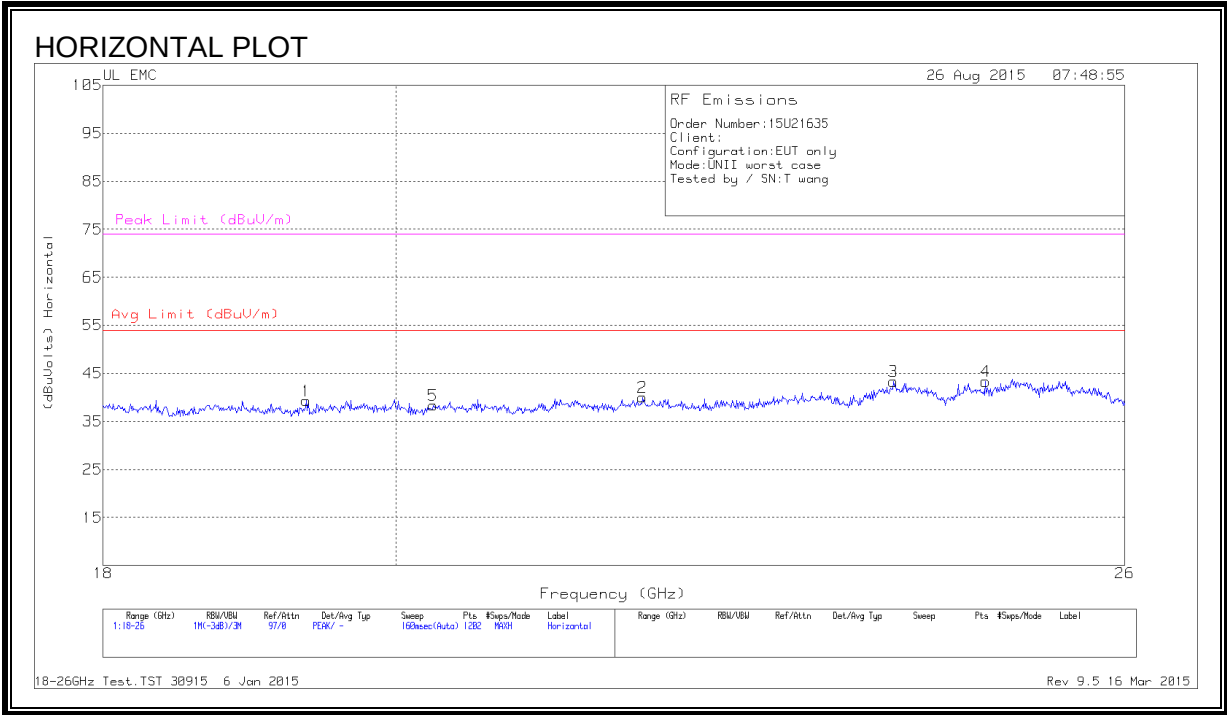
HORIZONTAL AND VERTICAL DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	30.4675	28.71	Pk	21.4	-31.3	18.81	40	-21.19	0-360	100	V
1	31.02	27.13	Pk	21	-31.3	16.83	40	-23.17	0-360	301	H
10	49.0825	32.86	Pk	8.3	-31.1	10.06	40	-29.94	0-360	100	V
2	53.2475	38.43	Pk	7.2	-31	14.63	40	-25.37	0-360	401	H
7	53.2475	36.07	Pk	7.2	-31	12.27	40	-27.73	0-360	100	V
8	80.0225	37.83	Pk	7.8	-30.7	14.93	40	-25.07	0-360	100	V
9	105.9688	36.13	Pk	11.6	-30.5	17.23	43.52	-26.29	0-360	100	V
3	107.3075	37.07	Pk	11.9	-30.4	18.57	43.52	-24.95	0-360	201	H
4	209.2	42.5	Pk	10.4	-29.7	23.2	43.52	-20.32	0-360	100	H
11	209.2	40.73	Pk	10.4	-29.7	21.43	43.52	-22.09	0-360	99	V
12	596.3	32.45	Pk	18.6	-28.1	22.95	46.02	-23.07	0-360	99	V
5	804.9	30.93	Pk	21.5	-27.2	25.23	46.02	-20.79	0-360	201	H
13	910.4	37.12	Pk	22.4	-26.4	33.12	46.02	-12.9	0-360	201	V

Pk - Peak detector

9.3. WORST-CASE ABOVE 18 GHz

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

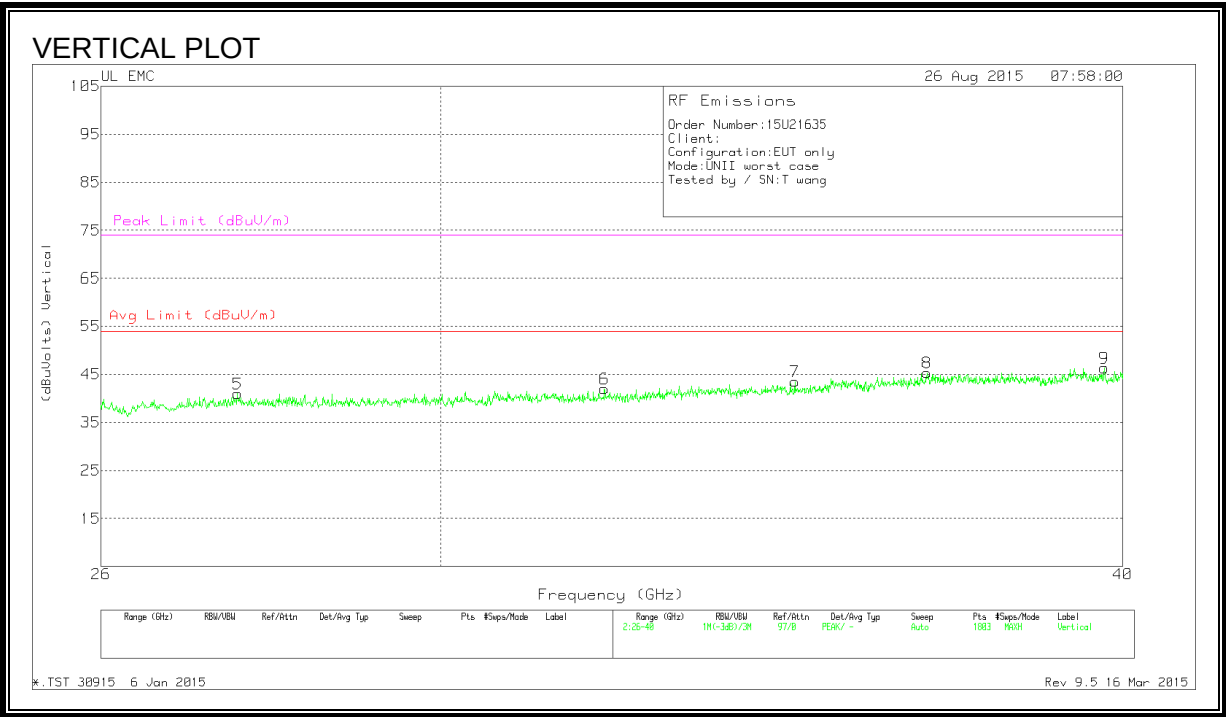
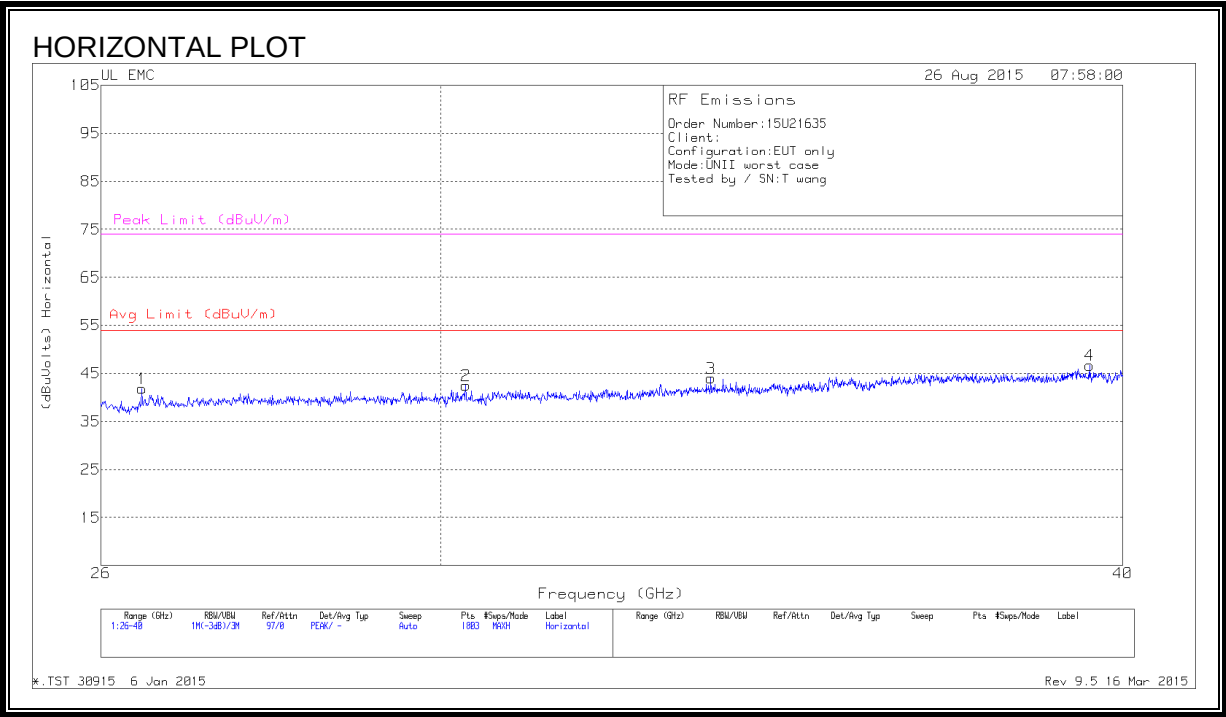


HORIZONTAL AND VERTICAL DATA

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	19.366	41.53	Pk	32.4	-25.1	-9.5	39.33	54	-14.66	74	-34.66
2	21.857	40.8	Pk	33.3	-24.6	-9.5	40	54	-14	74	-34
3	23.922	43.33	Pk	33.4	-23.9	-9.5	43.33	54	-10.66	74	-30.66
4	24.728	43.63	Pk	33.8	-24.6	-9.5	43.33	54	-10.66	74	-30.66
5	20.271	40.53	Pk	32.5	-25.2	-9.5	38.33	54	-15.66	74	-35.66
6	18.693	40.53	Pk	32.5	-24.2	-9.5	39.33	54	-14.66	74	-34.66
7	21.351	41.9	Pk	33.1	-25.5	-9.5	40	54	-14	74	-34
8	22.576	42.5	Pk	33.3	-25.3	-9.5	41	54	-13	74	-33
9	24.122	43.73	Pk	33.4	-24.3	-9.5	43.33	54	-10.66	74	-30.66
10	25.047	43.93	Pk	34.1	-24.7	-9.5	43.83	54	-10.16	74	-30.16

Pk - Peak detector

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



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	26.451	46.63	Pk	35.5	-30.8	-9.5	41.83	54	-12.16	74	-32.16
2	30.32	48.7	Pk	35.9	-32.6	-9.5	42.5	54	-11.5	74	-31.5
3	33.622	49.2	Pk	37	-32.7	-9.5	44	54	-10	74	-30
4	39.441	50.27	Pk	37.6	-31.7	-9.5	46.66	54	-7.33	74	-27.33
5	27.538	46.3	Pk	35.7	-31.5	-9.5	41	54	-13	74	-33
6	32.145	48	Pk	36.4	-32.9	-9.5	42	54	-12	74	-32
7	34.834	49	Pk	37.2	-33.2	-9.5	43.5	54	-10.5	74	-30.5
8	36.83	50.63	Pk	37.1	-32.9	-9.5	45.33	54	-8.66	74	-28.66
9	39.689	50.13	Pk	37.2	-31.5	-9.5	46.33	54	-7.66	74	-27.66

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.

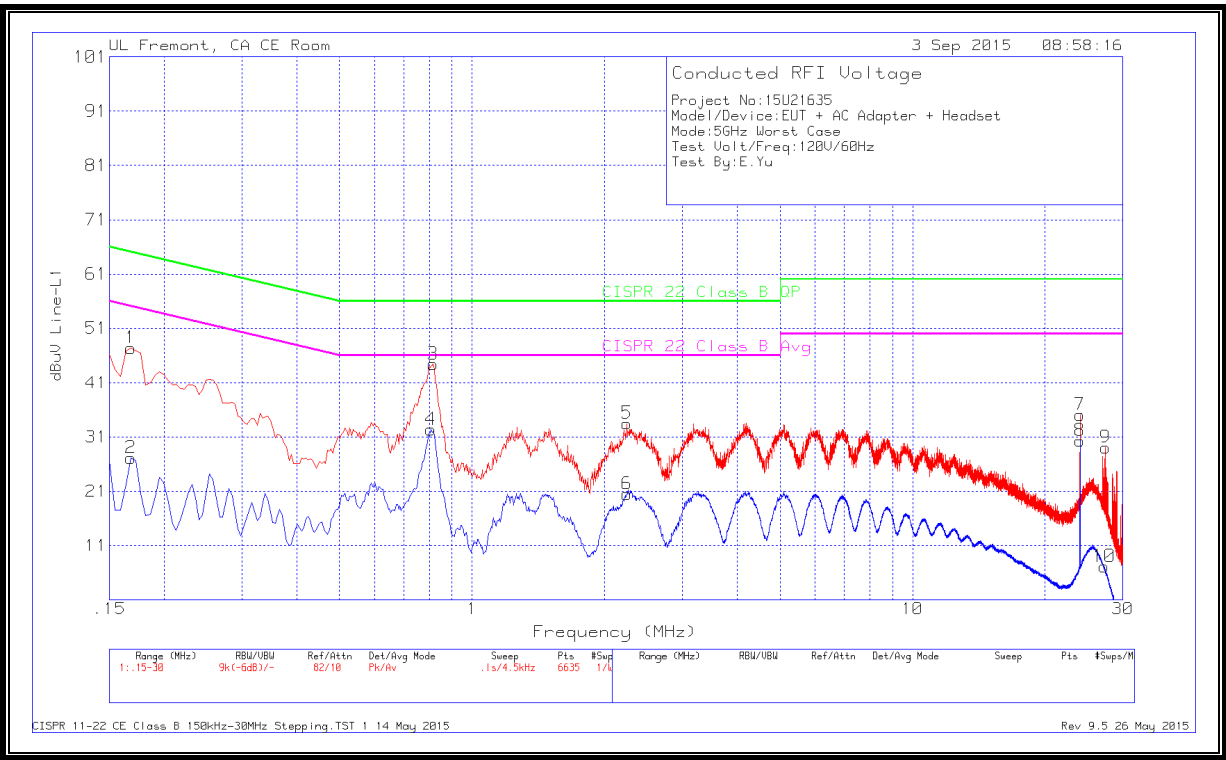
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. EUT POWERED BY AC ADAPTER

LINE 1 RESULTS



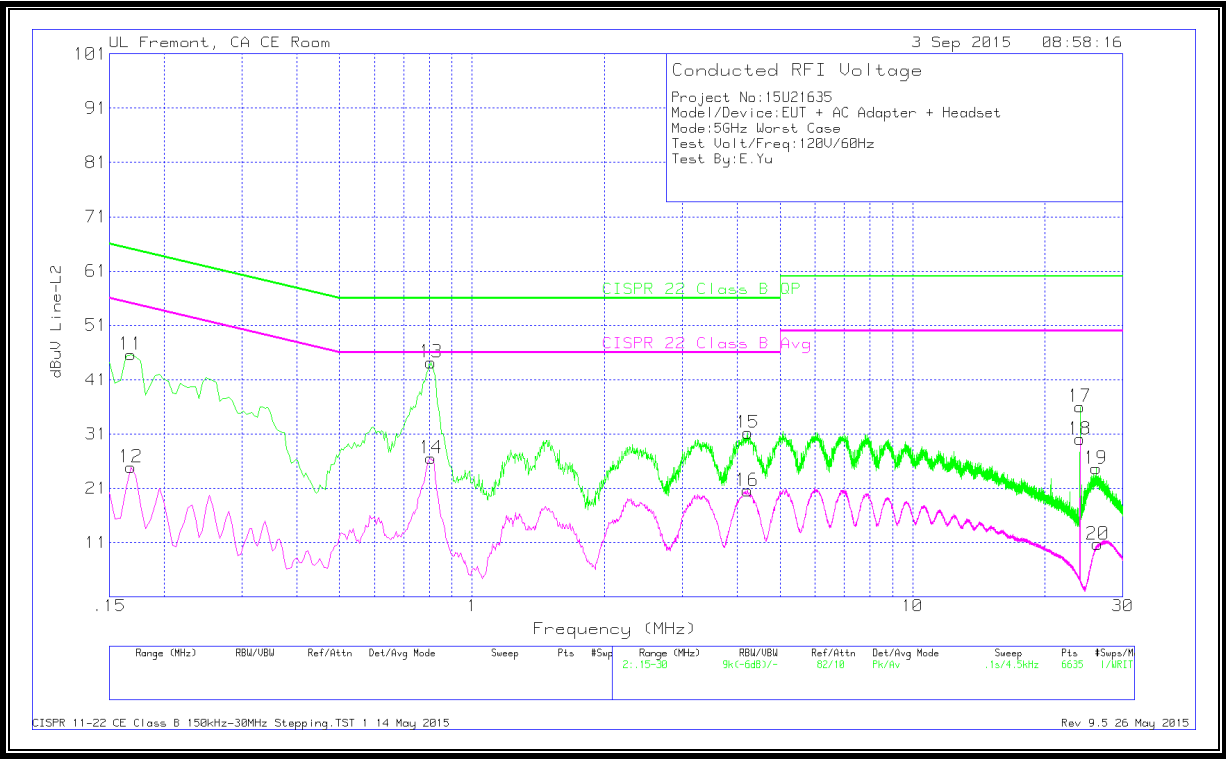
WORST EMISSIONS

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	.168	46.18	Pk	1.2	0	47.38	65.06	-17.68	-	-
2	.168	25.93	Av	1.2	0	27.13	-	-	55.06	-27.93
3	.816	44.09	Pk	.3	0	44.39	56	-11.61	-	-
4	.807	32.04	Av	.3	0	32.34	-	-	46	-13.66
5	2.247	33.17	Pk	.2	.1	33.47	56	-22.53	-	-
6	2.247	20.17	Av	.2	.1	20.47	-	-	46	-25.53
7	23.9955	34.55	Pk	.3	.2	35.05	60	-24.95	-	-
8	23.9955	29.78	Av	.3	.2	30.28	-	-	50	-19.72
9	27.4335	28.44	Pk	.3	.3	29.04	60	-30.96	-	-
10	27.2265	6.51	Av	.3	.3	7.11	-	-	50	-42.89

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



WORST EMISSIONS

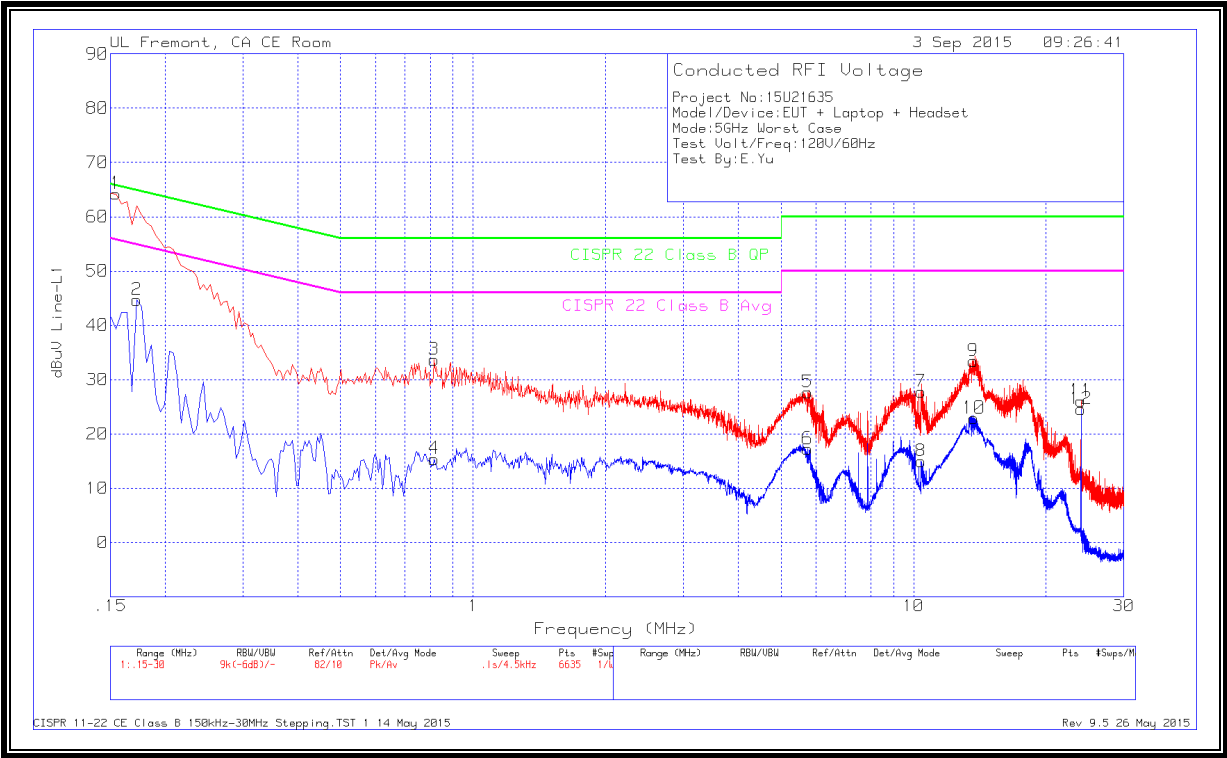
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CISPR 22 Class B QP	Margin (dB)	CISPR 22 Class B Avg	Margin (dB)
11	.168	44.34	Pk	1.3	0	45.64	65.06	-19.42	-	-
12	.168	23.6	Av	1.3	0	24.9	-	-	55.06	-30.16
13	.807	43.91	Pk	.3	0	44.21	56	-11.79	-	-
14	.807	26.25	Av	.3	0	26.55	-	-	46	-19.45
15	4.227	30.92	Pk	.2	.1	31.22	56	-24.78	-	-
16	4.218	20.26	Av	.2	.1	20.56	-	-	46	-25.44
17	23.9955	35.52	Pk	.3	.2	36.02	60	-23.98	-	-
18	23.9955	29.55	Av	.3	.2	30.05	-	-	50	-19.95
19	26.088	24.05	Pk	.3	.3	24.65	60	-35.35	-	-
20	26.3355	10.1	Av	.3	.3	10.7	-	-	50	-39.3

Pk - Peak detector

Av - Average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



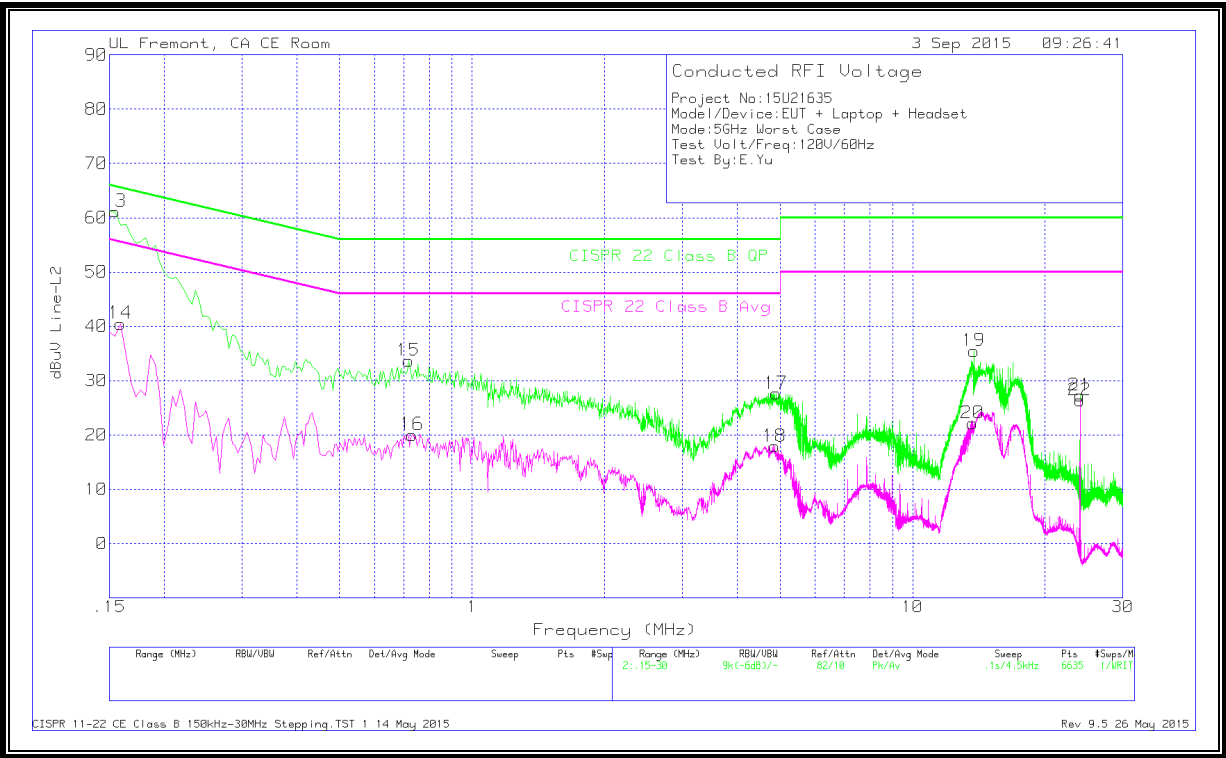
WORST EMISSIONS

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	.1545	62.91	Pk	1.3	0	64.21	65.75	-1.54	-	-
2	.1725	43.59	Av	1.1	0	44.69	-	-	54.84	-10.15
3	.816	33.4	Pk	.3	0	33.7	56	-22.3	-	-
4	.816	15.11	Av	.3	0	15.41	-	-	46	-30.59
5	5.748	27.38	Pk	.2	.1	27.68	60	-32.32	-	-
6	5.7435	16.95	Av	.2	.1	17.25	-	-	50	-32.75
7	10.401	27.37	Pk	.2	.2	27.77	60	-32.23	-	-
8	10.401	14.56	Av	.2	.2	14.96	-	-	50	-35.04
9	13.668	33.01	Pk	.2	.2	33.41	60	-26.59	-	-
10	13.7085	22.48	Av	.2	.2	22.88	-	-	50	-27.12
11	23.9955	25.57	Pk	.3	.2	26.07	60	-33.93	-	-
12	23.9955	24.11	Av	.3	.2	24.61	-	-	50	-25.39

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



WORST EMISSIONS

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	.1545	59.73	Pk	1.4	0	61.13	65.75	-4.62	-	-
14	.159	39.1	Av	1.4	0	40.5	-	-	55.52	-15.02
15	.717	33.38	Pk	.3	0	33.68	56	-22.32	-	-
16	.7305	19.71	Av	.3	0	20.01	-	-	46	-25.99
17	4.902	27.32	Pk	.2	.1	27.62	56	-28.38	-	-
18	4.8615	17.59	Av	.2	.1	17.89	-	-	46	-28.11
19	13.776	35.1	Pk	.2	.2	35.5	60	-24.5	-	-
20	13.6905	21.74	Av	.2	.2	22.14	-	-	50	-27.86
21	23.9955	26.78	Pk	.3	.2	27.28	60	-32.72	-	-
22	23.9955	25.9	Av	.3	.2	26.4	-	-	50	-23.6

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

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.

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

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

Table 5 – Short Pulse Radar Test Waveforms

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

Table 6 – Long Pulse Radar Test Signal

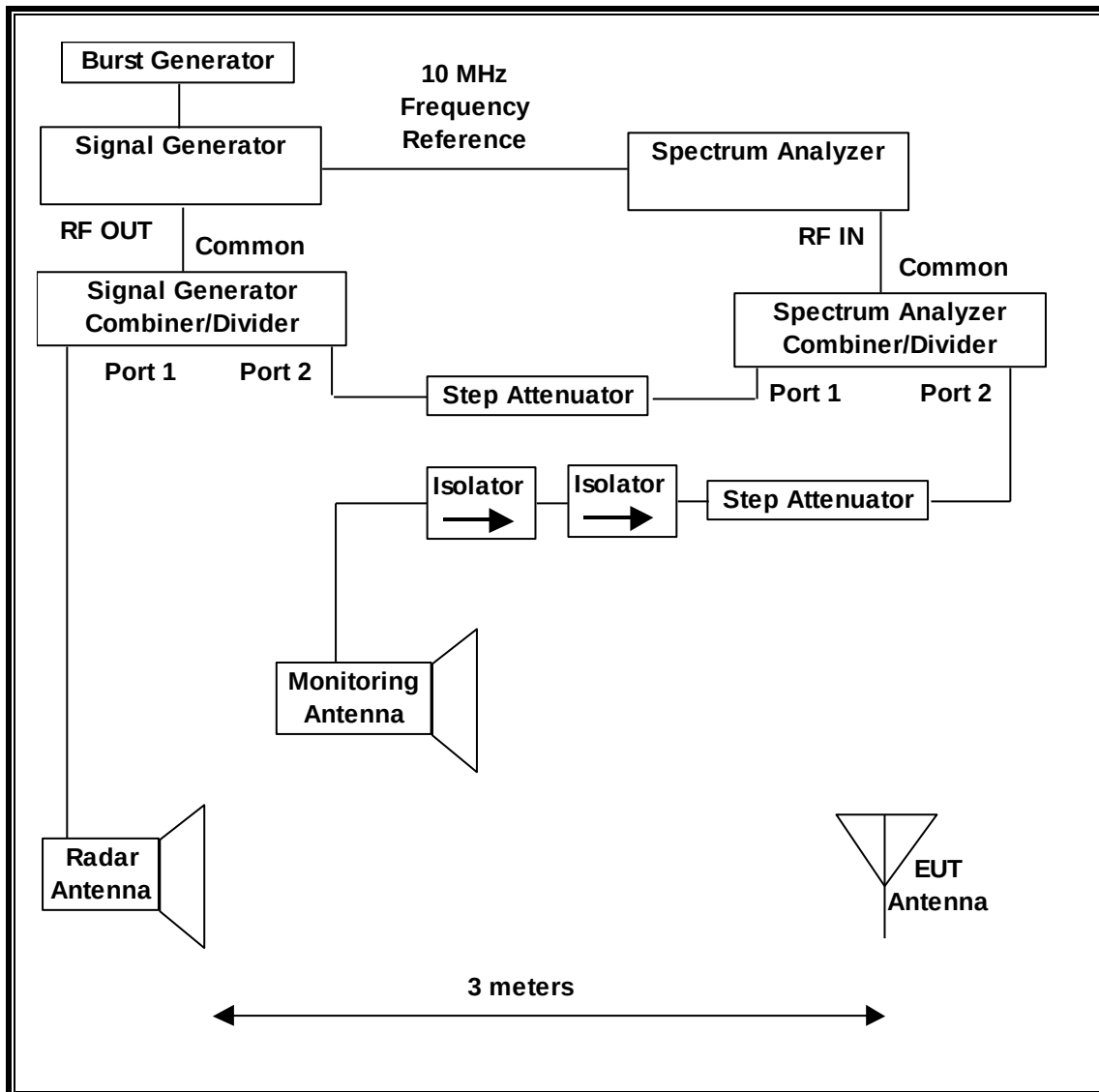
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

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

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.

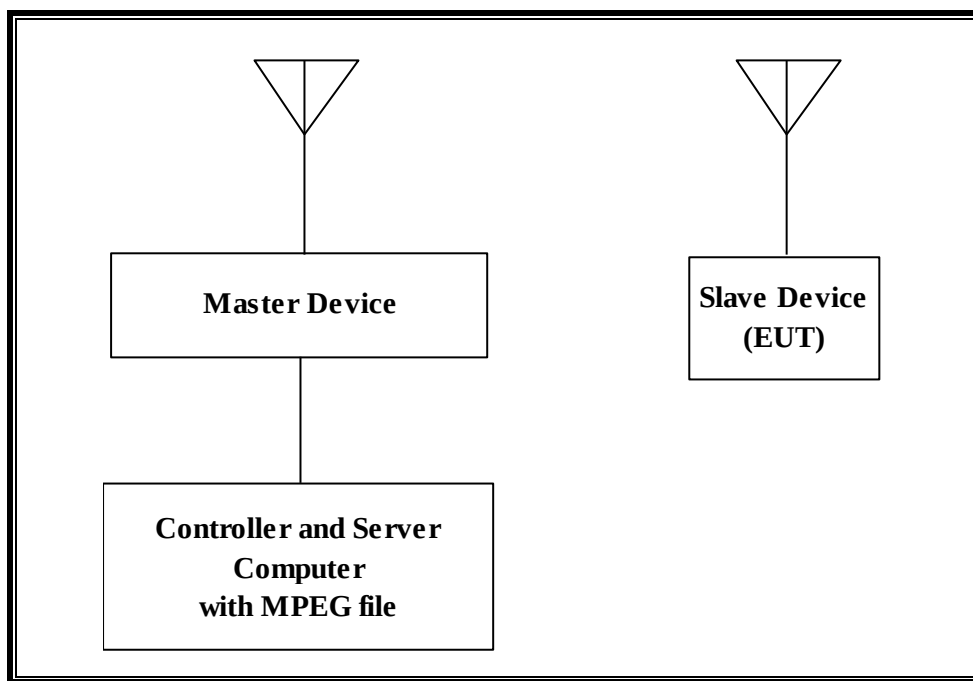
TEST AND MEASUREMENT EQUIPMENT

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

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

11.1.3. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



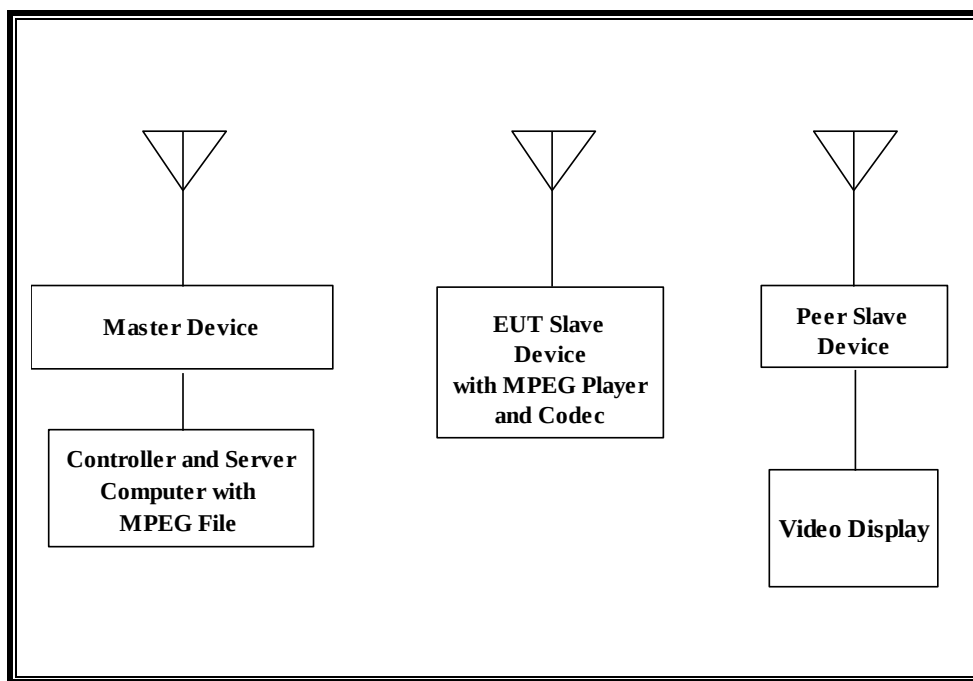
SUPPORT EQUIPMENT

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 (Master Device)	Apple	A1392	C86LCE5GFJ1R	BCGA1470
Notebook PC (Controller/Server)	Apple	A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1143	C0420640G9KDJ92 BD	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
802.11a/b/g/n/ac Wireless Access (Master Device)	Apple	A1392	C86LCE5GFJ1R	BCGA1470
Notebook PC (Controller/Server)	Apple	A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1143	C0420640G9KDJ92 BD	DoC
Apple TV (Peer Slave Device)	Apple	A1469	4/11/1914	BCGA1469
Video Display	Dell	U2410f	CN-0FJ525N-72872-1B5-AGAL	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 12.28 dBm EIRP in the 5250-5350 MHz band and 11.71 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of -5.22 dBi in the 5250-5350 MHz band and -5.27 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 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 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.

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 13E91

The software installed in the access point is AP3G2-K9W7-M Version 7.7D3.

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: BCGA1470. The minimum antenna gain for the Master Device is 1.4 dBi.

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

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

The software installed in the access point is AP3G2-K9W7-M Version 7.7D3.

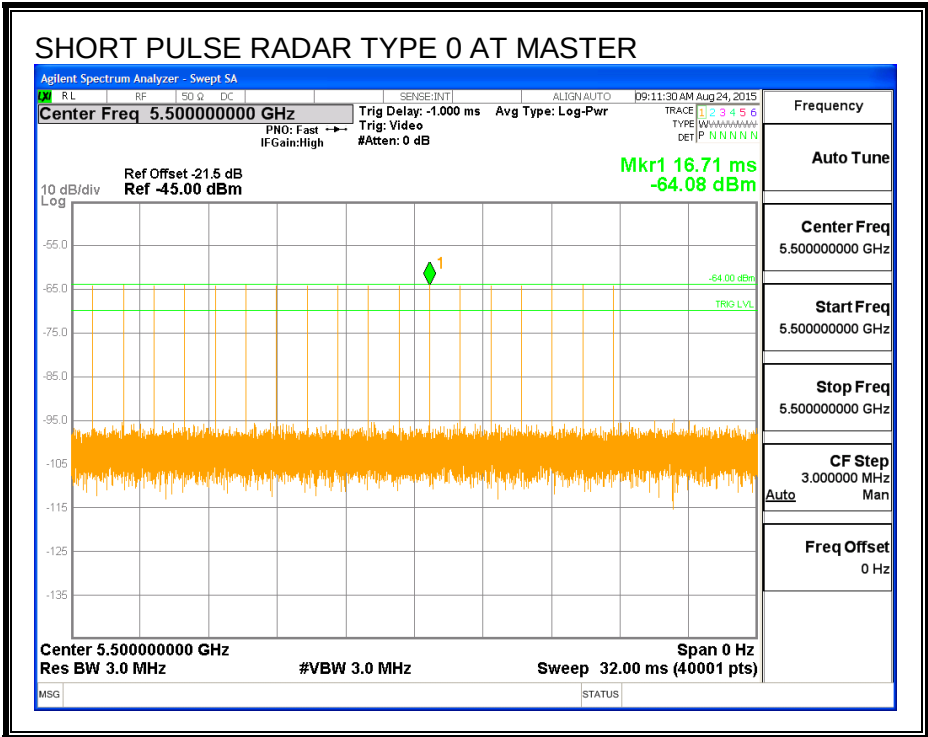
11.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

11.2.1. TEST CHANNEL

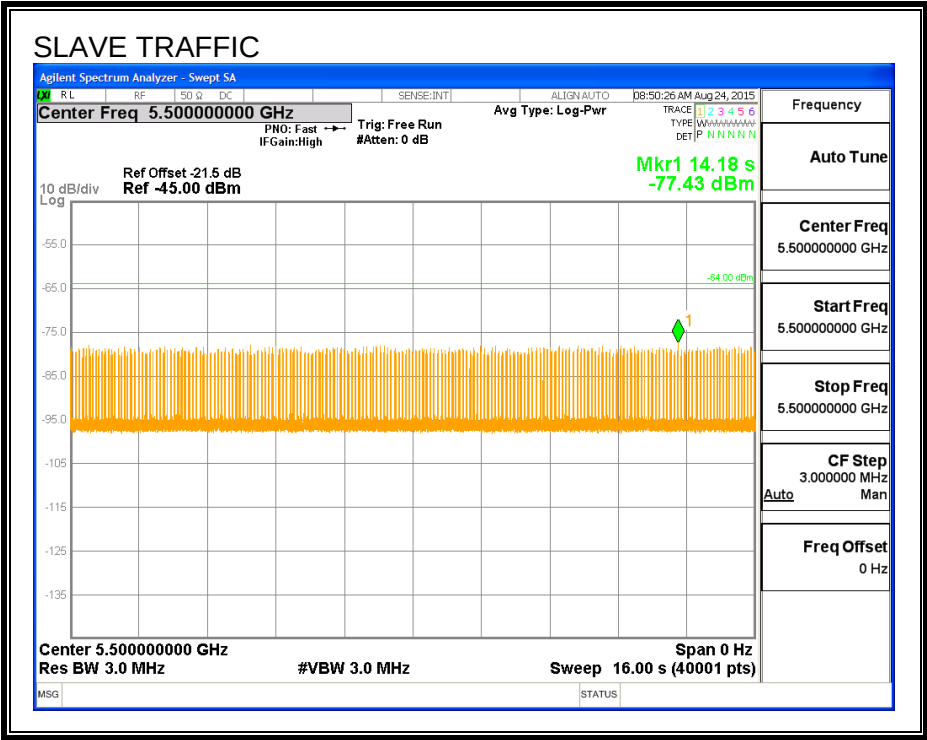
All tests were performed at a channel center frequency of 5500 MHz.

11.2.2. RADAR WAVEFORM AND TRAFFIC

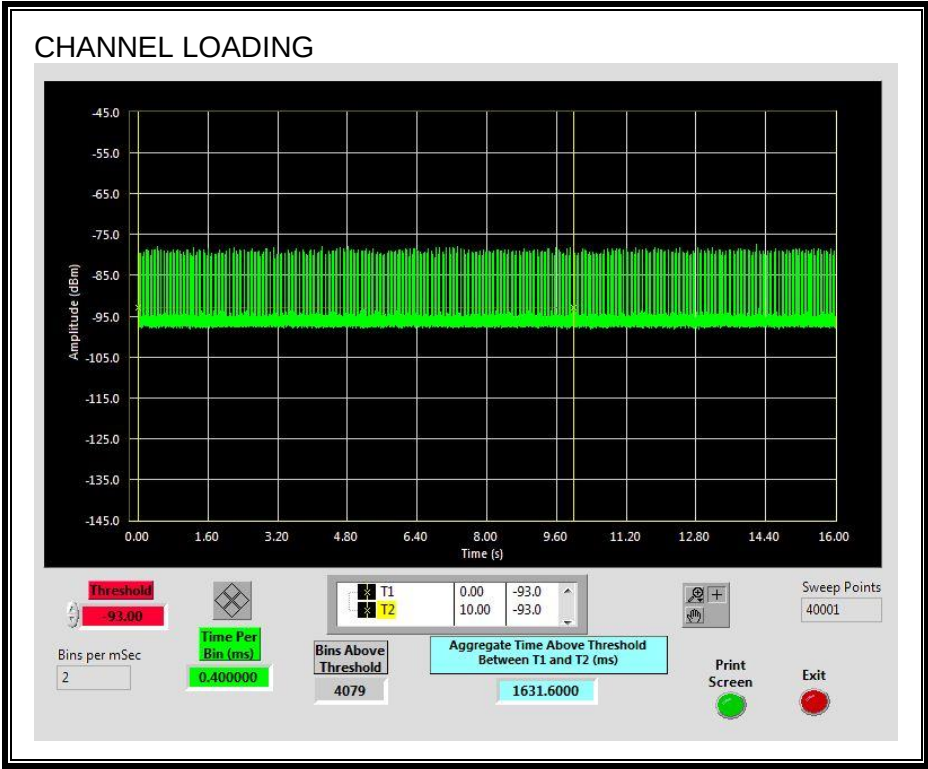
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 16.31%

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)

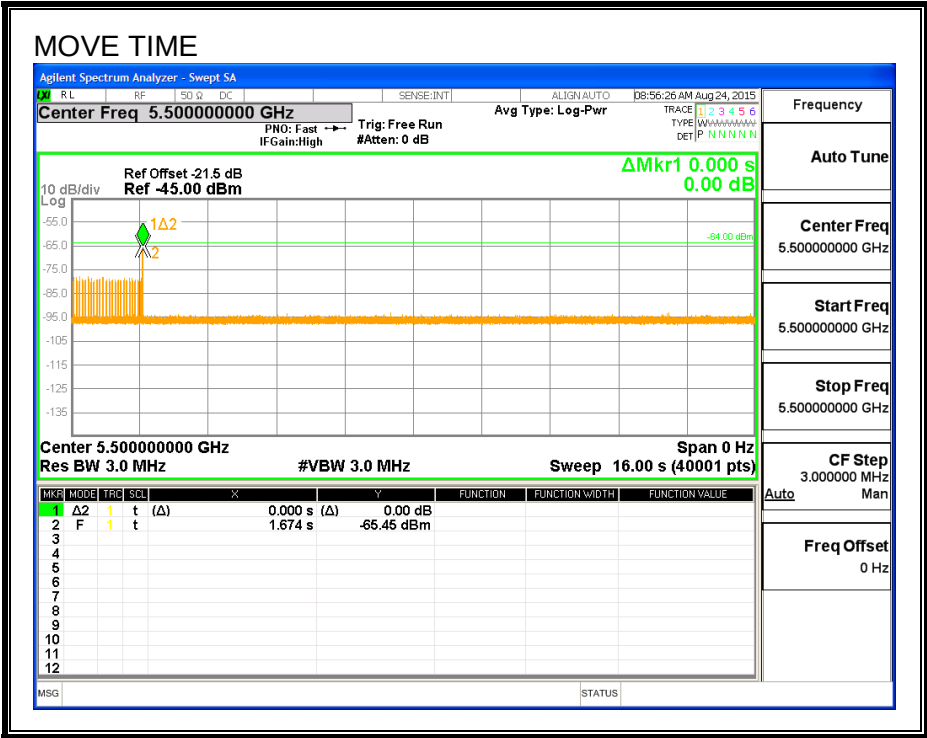
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

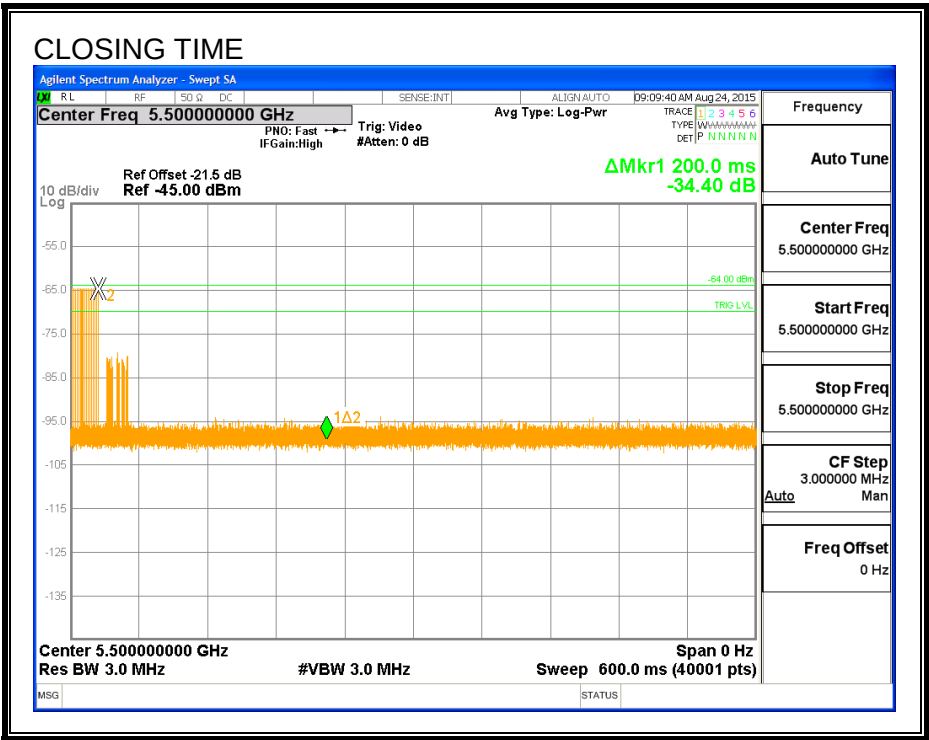
Channel Move Time (sec)	Limit (sec)
0.000	10

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

MOVE TIME

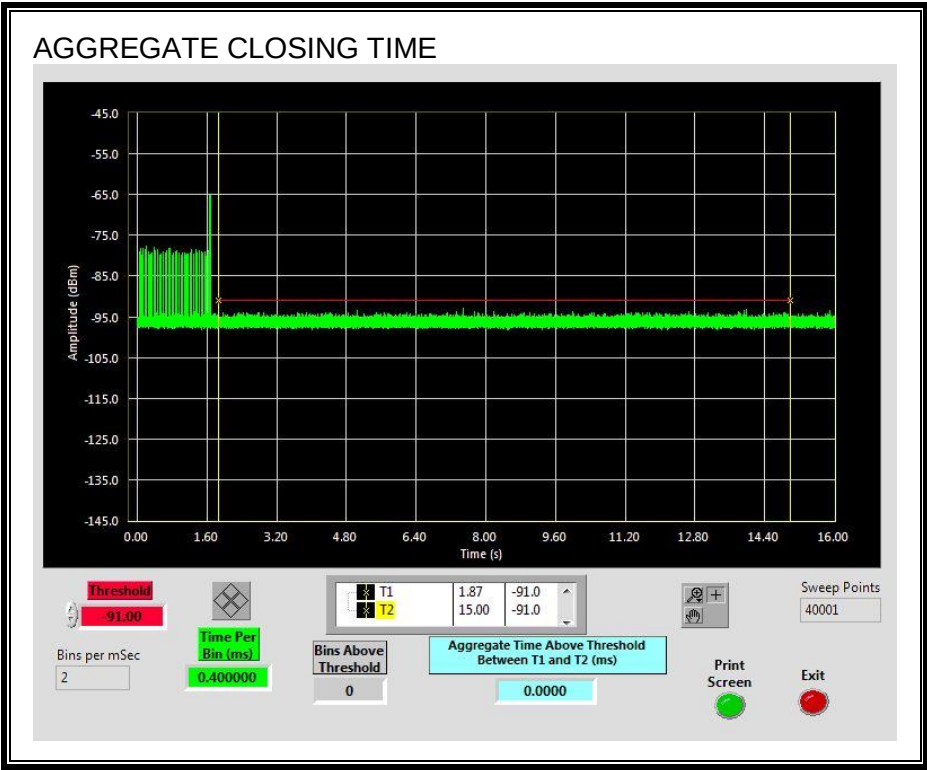


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



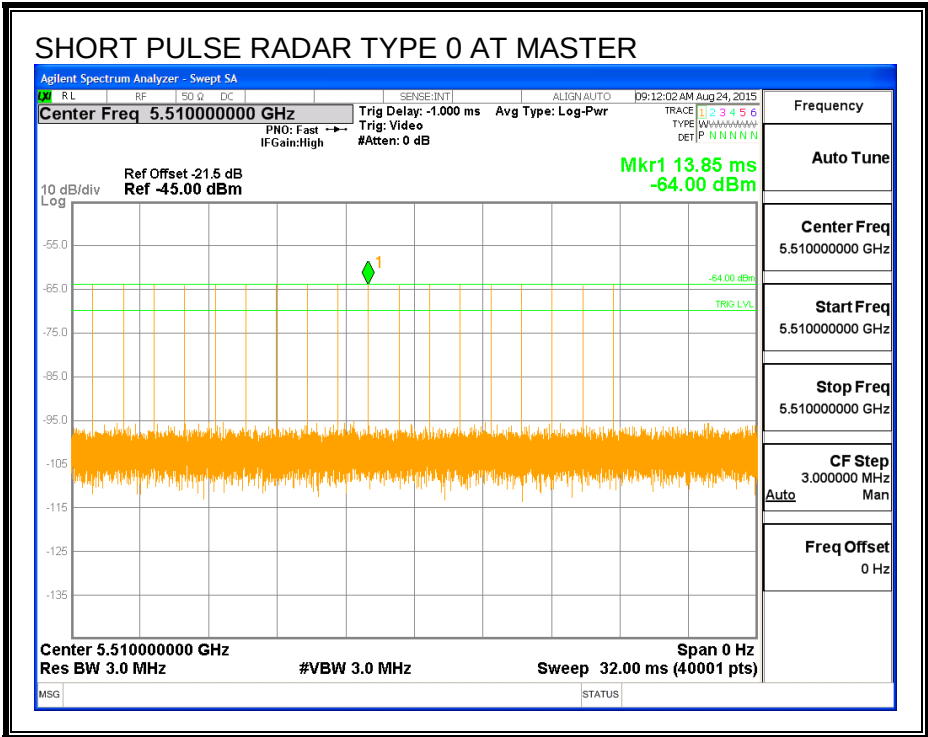
11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

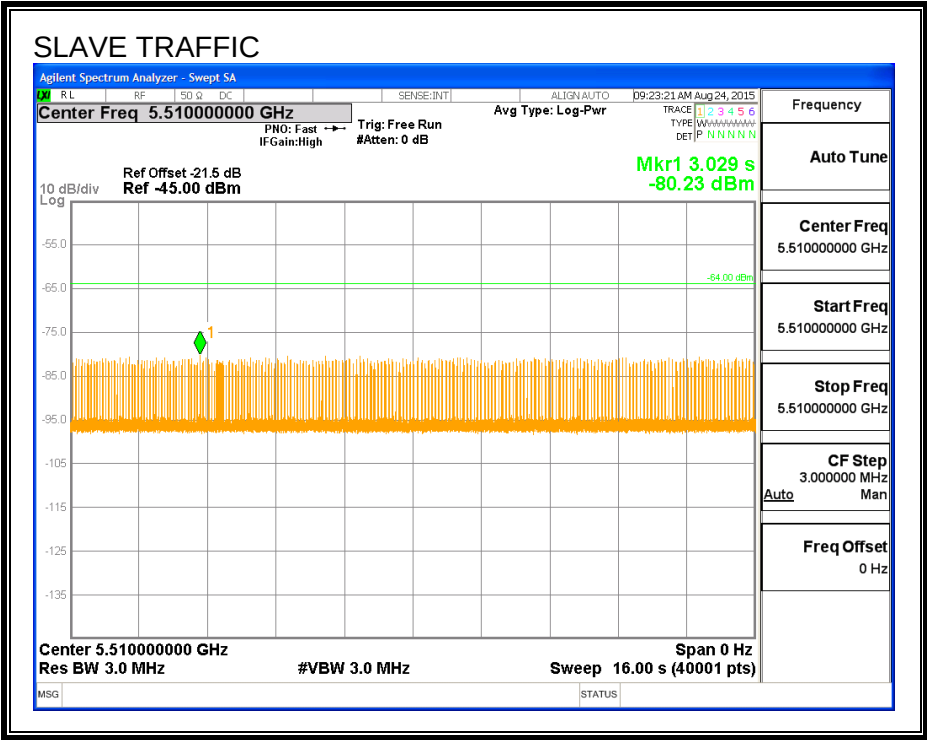
All tests were performed at a channel center frequency of 5510 MHz.

11.3.2. RADAR WAVEFORM AND TRAFFIC

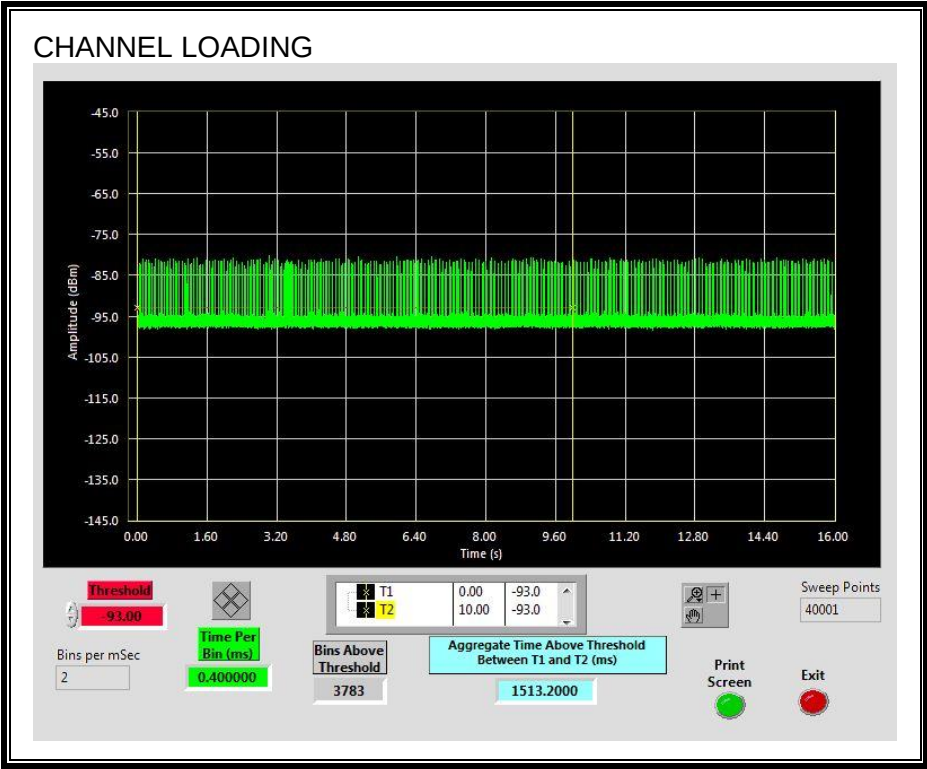
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 15.13%

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)

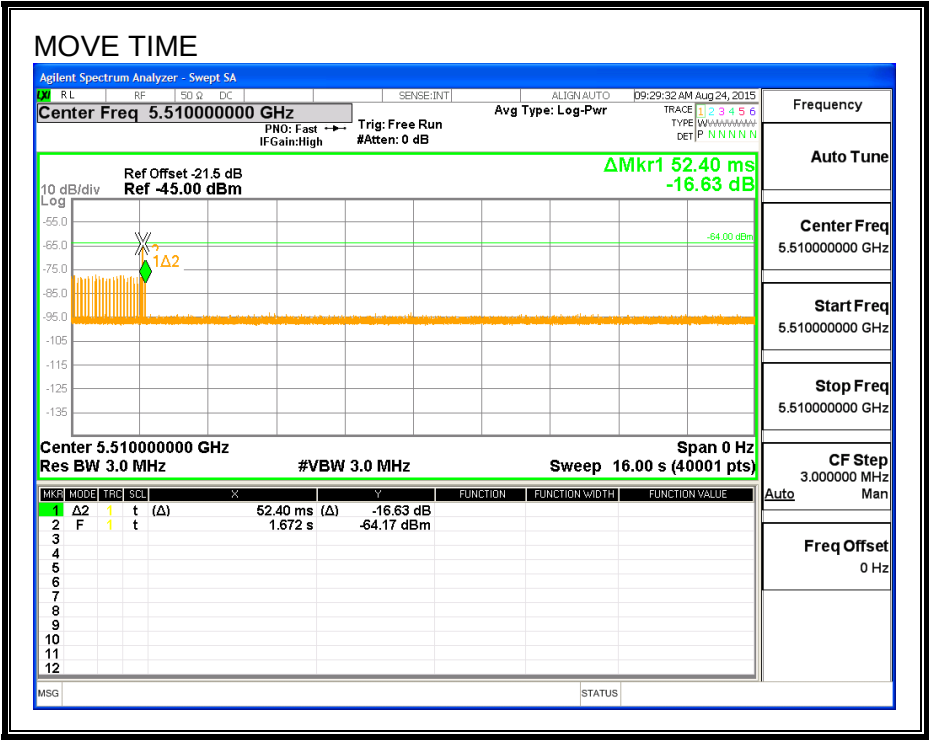
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

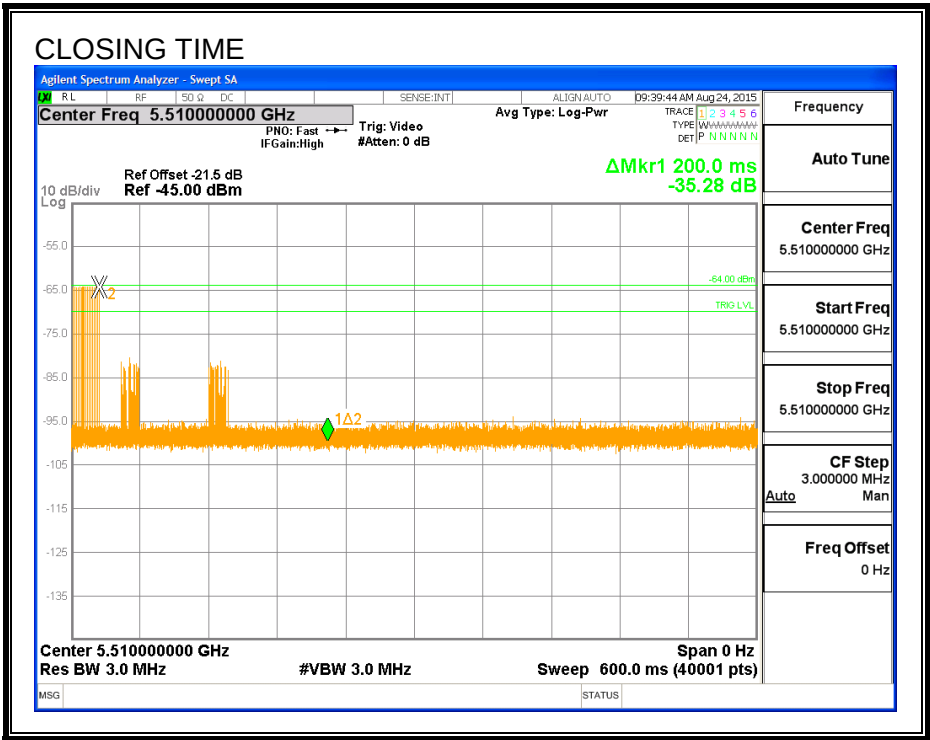
Channel Move Time (sec)	Limit (sec)
0.0524	10

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

MOVE TIME

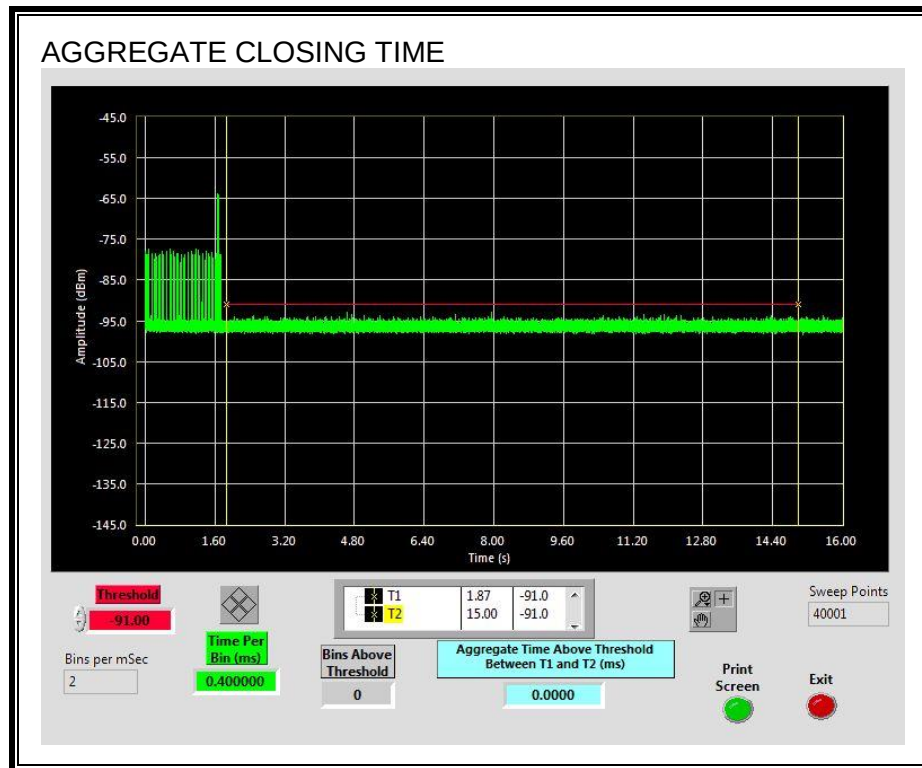


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



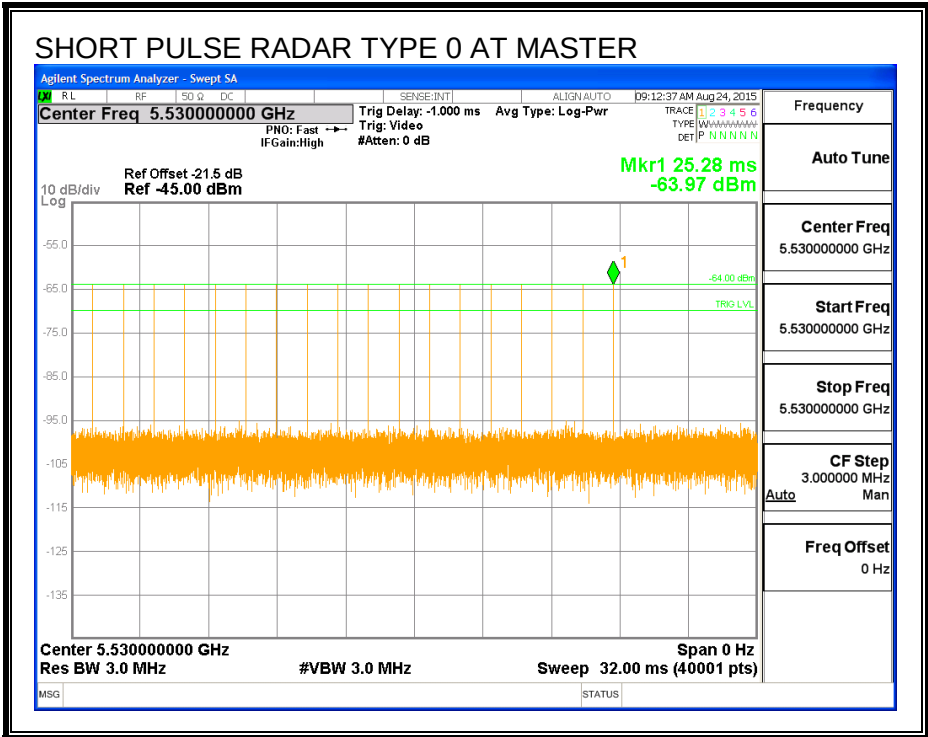
11.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

11.4.1. TEST CHANNEL

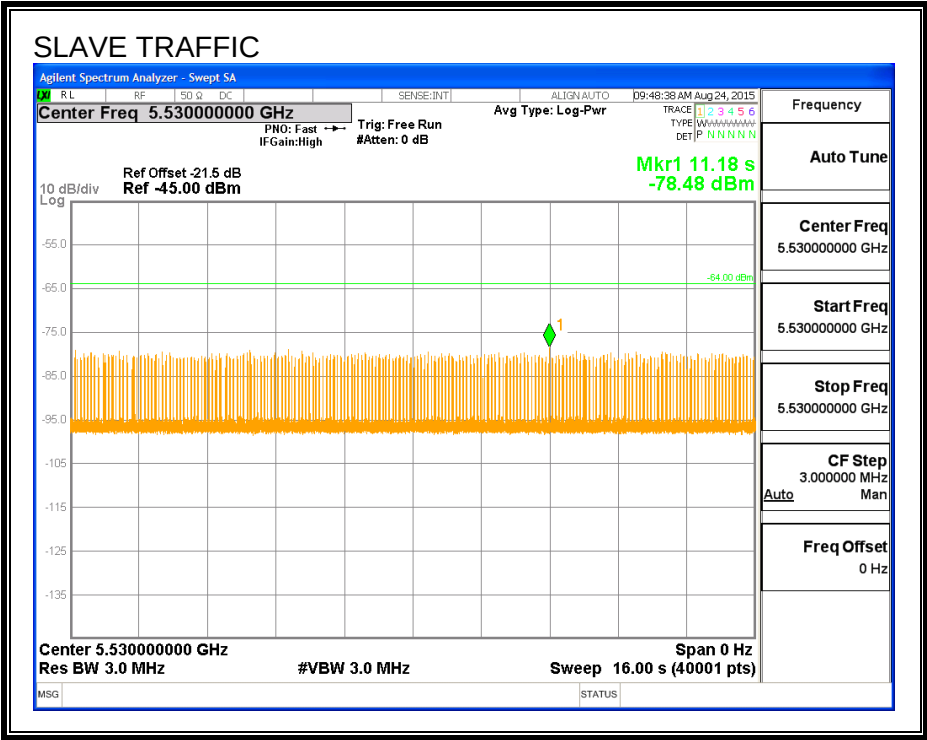
All tests were performed at a channel center frequency of 5530 MHz.

11.4.2. RADAR WAVEFORM AND TRAFFIC

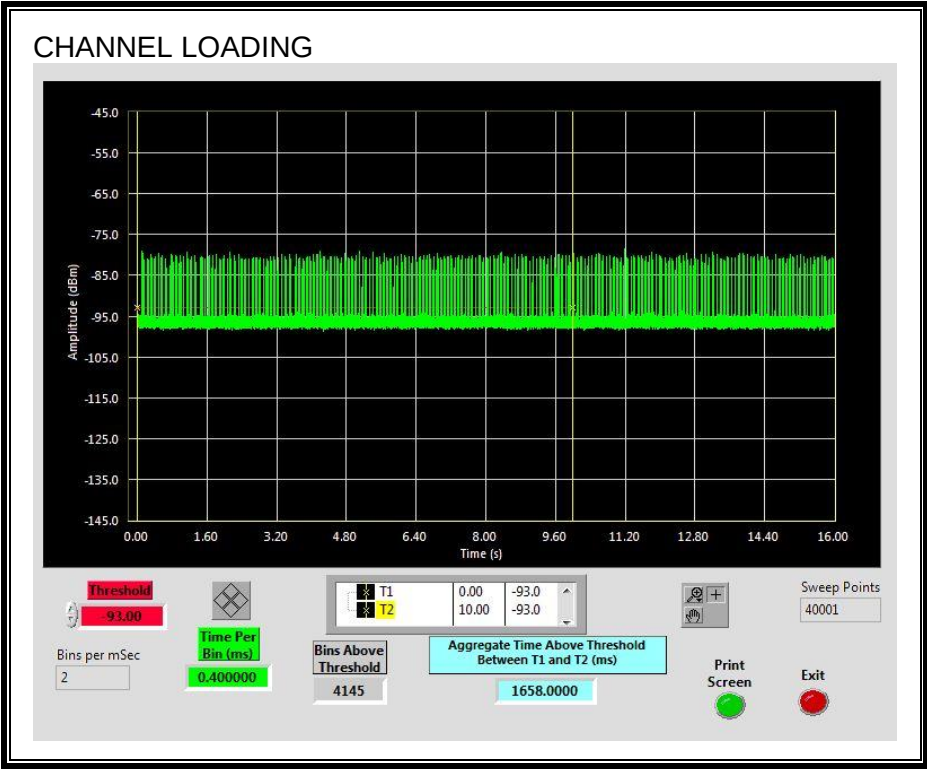
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 16.58%

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)

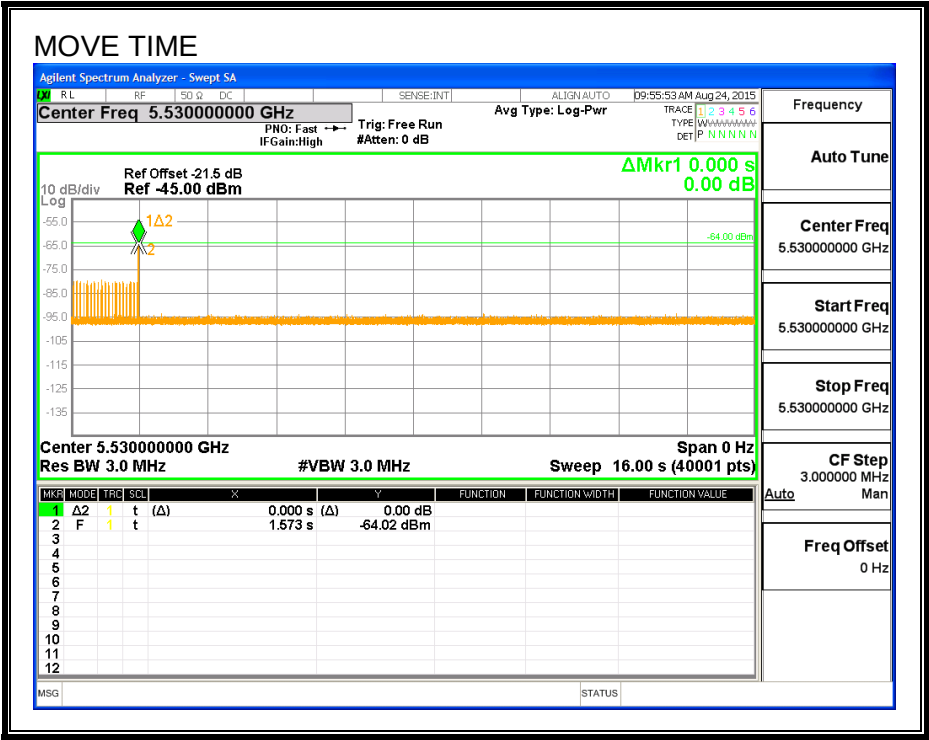
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

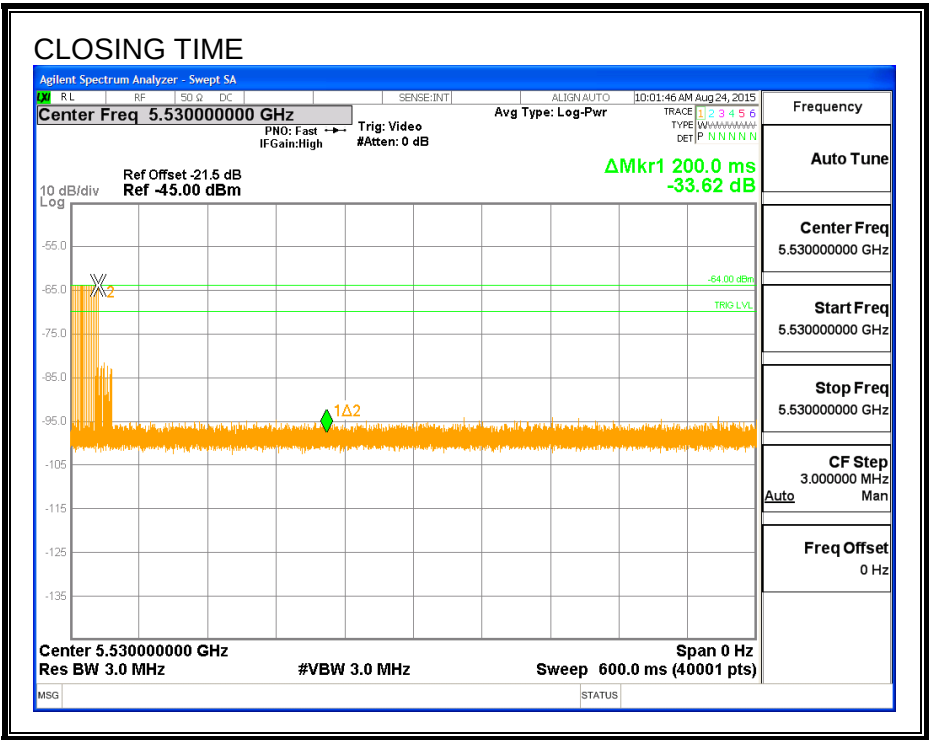
Channel Move Time (sec)	Limit (sec)
0.0000	10

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

MOVE TIME

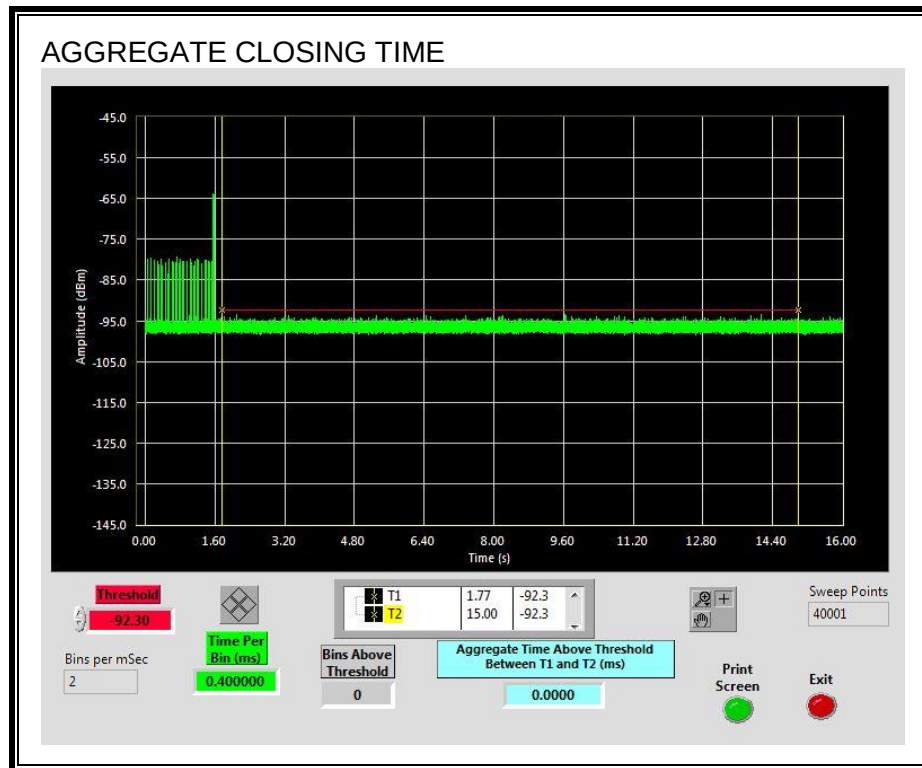


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

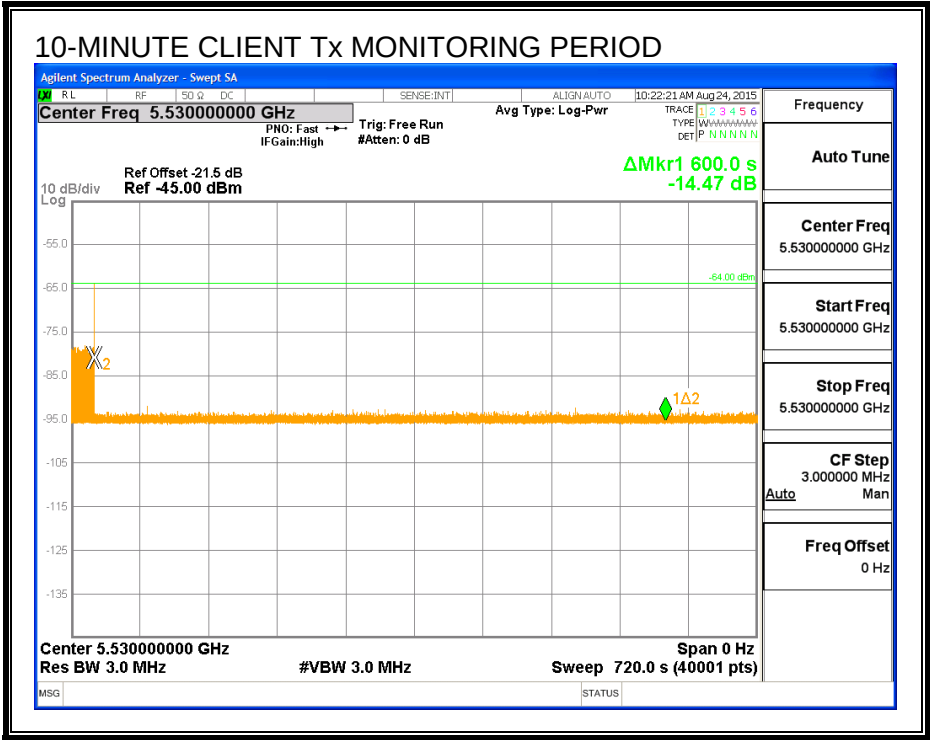
No transmissions are observed during the aggregate monitoring period.



11.4.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

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



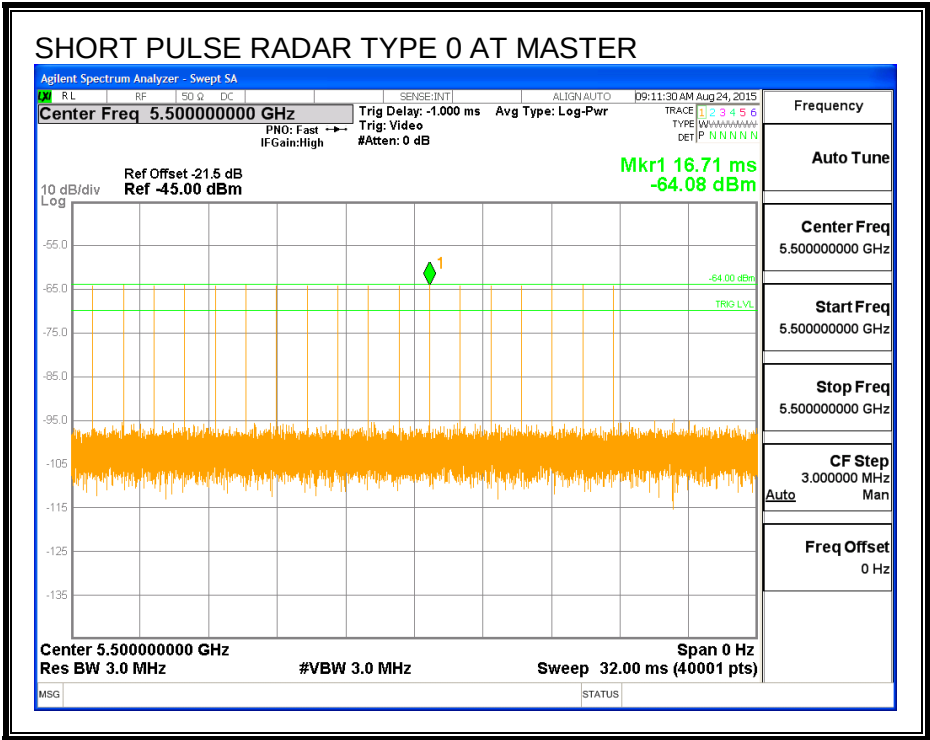
11.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

11.5.1. TEST CHANNEL

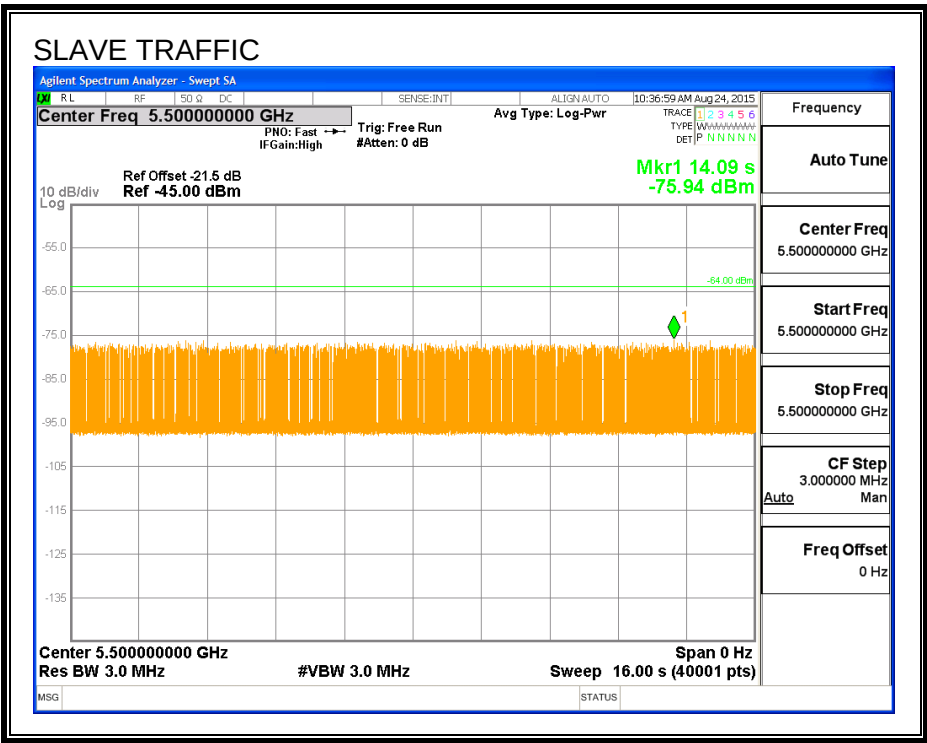
All tests were performed at a channel center frequency of 5500 MHz.

11.5.2. RADAR WAVEFORM AND TRAFFIC

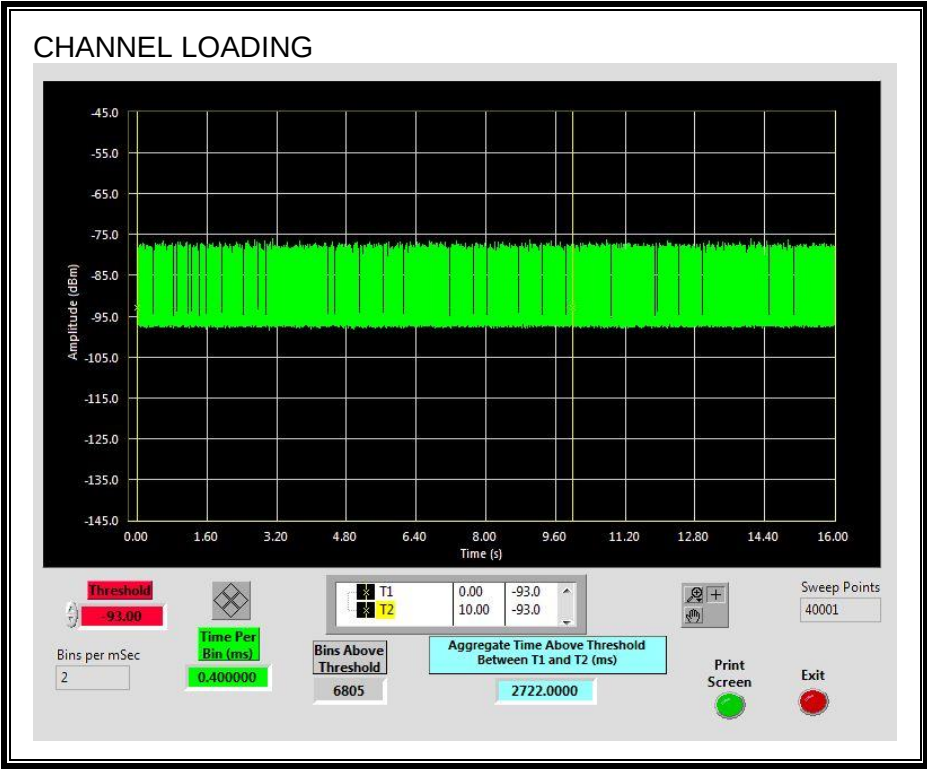
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 27.22%

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)

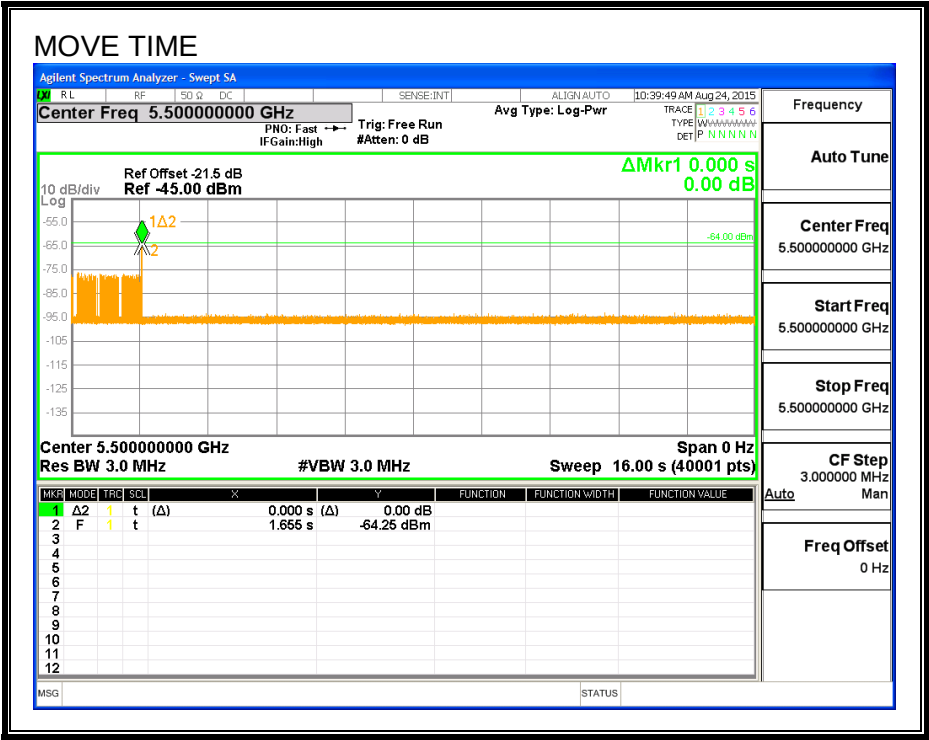
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

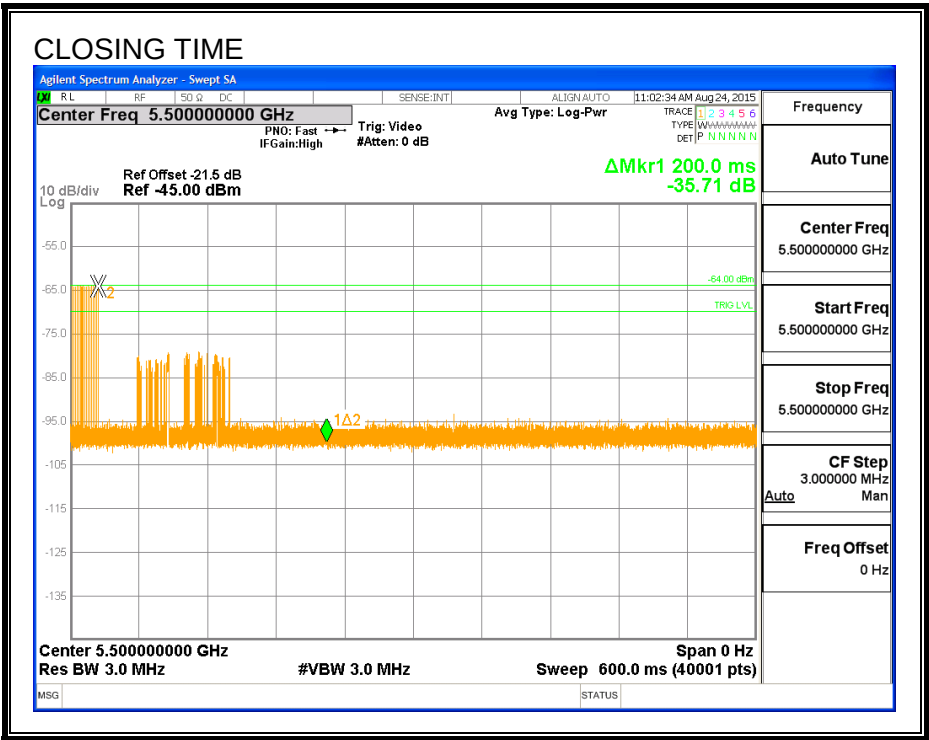
Channel Move Time (sec)	Limit (sec)
0.000	10

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

MOVE TIME

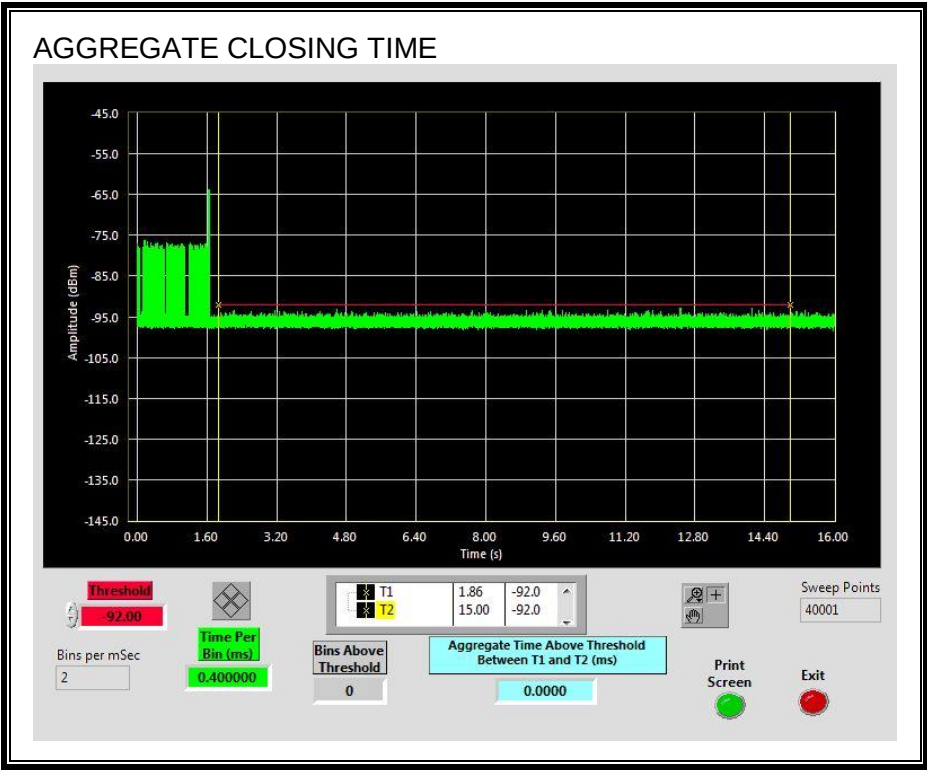


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



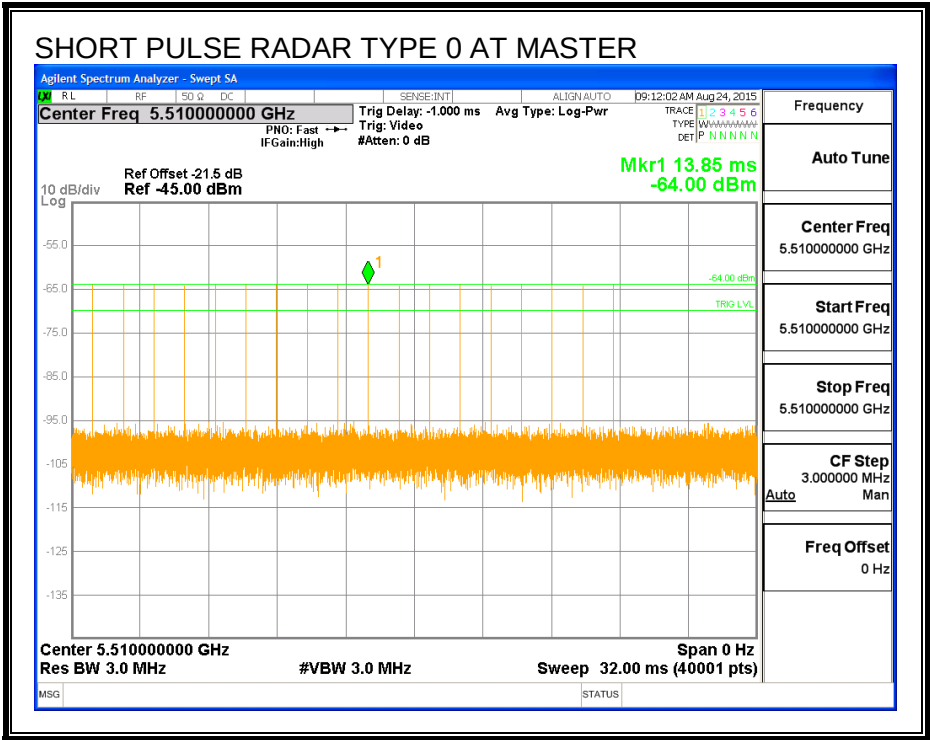
11.6. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

11.6.1. TEST CHANNEL

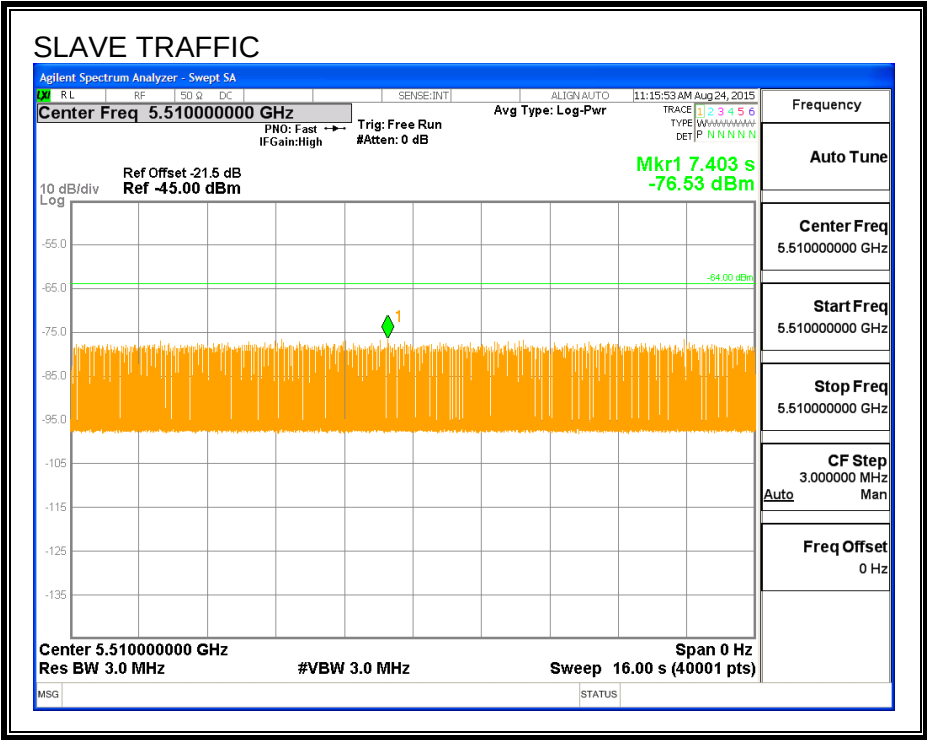
All tests were performed at a channel center frequency of 5510 MHz.

11.6.2. RADAR WAVEFORM AND TRAFFIC

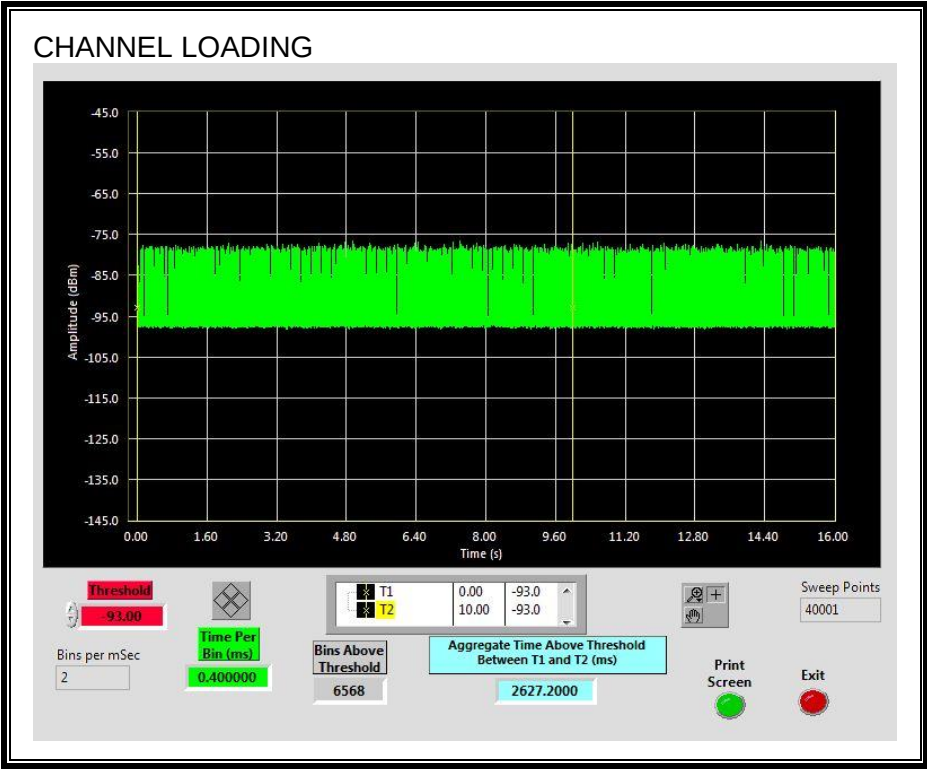
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 26.27%

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)

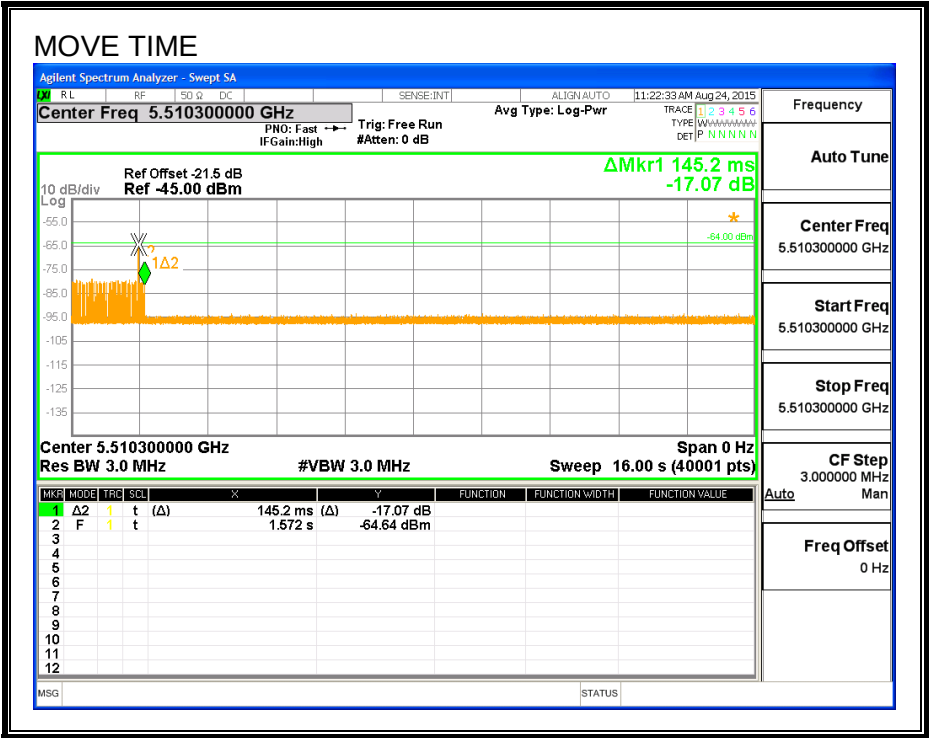
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

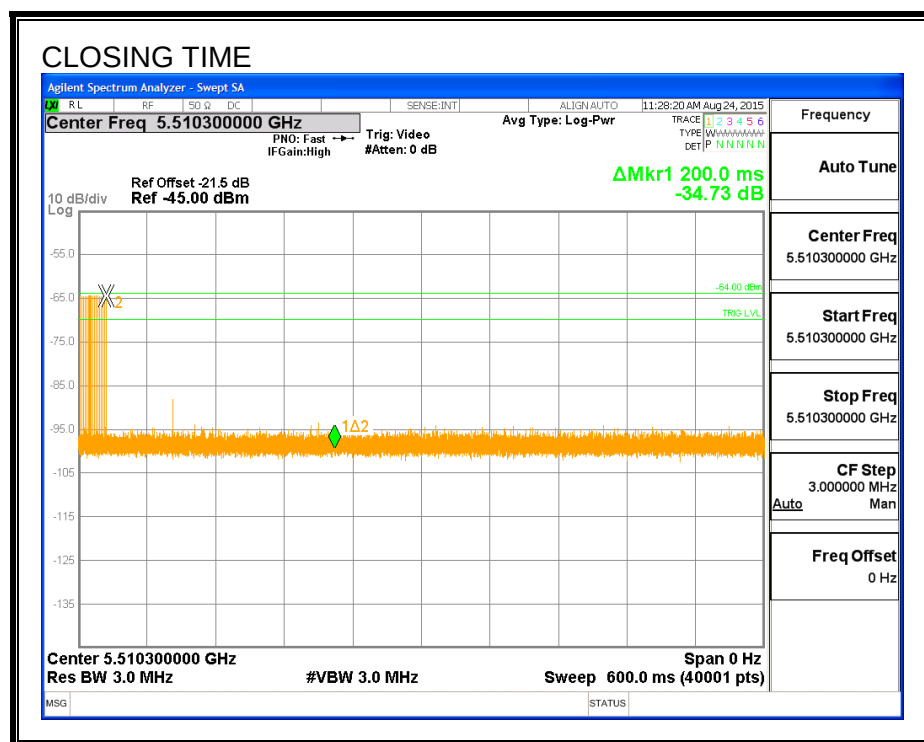
RESULTS

Channel Move Time (sec)	Limit (sec)
0.1452	10

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

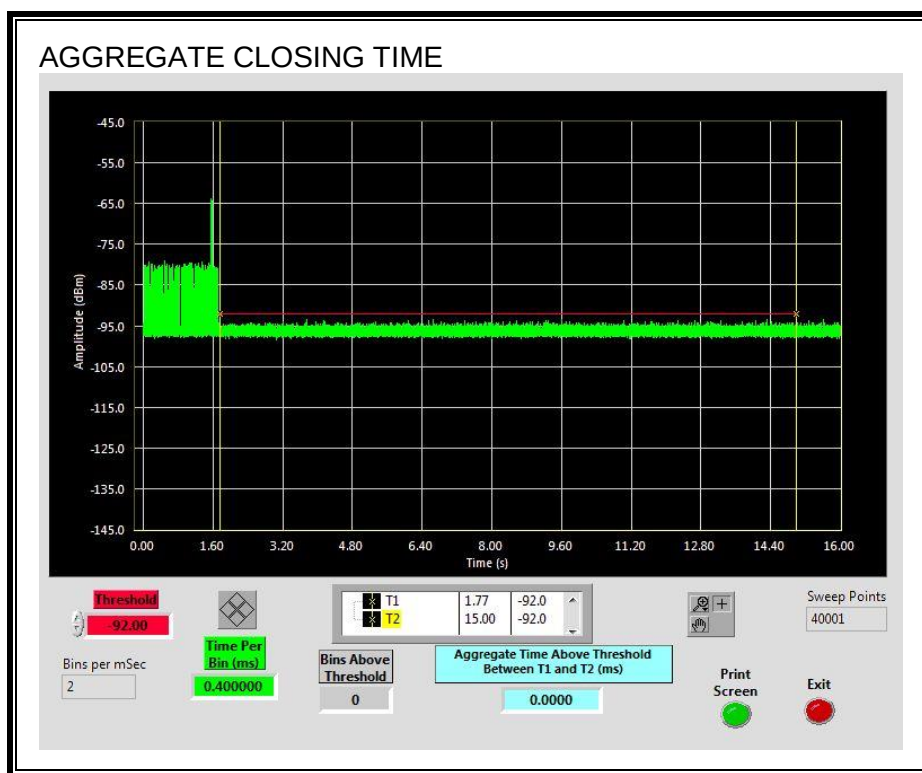
MOVE TIME





AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



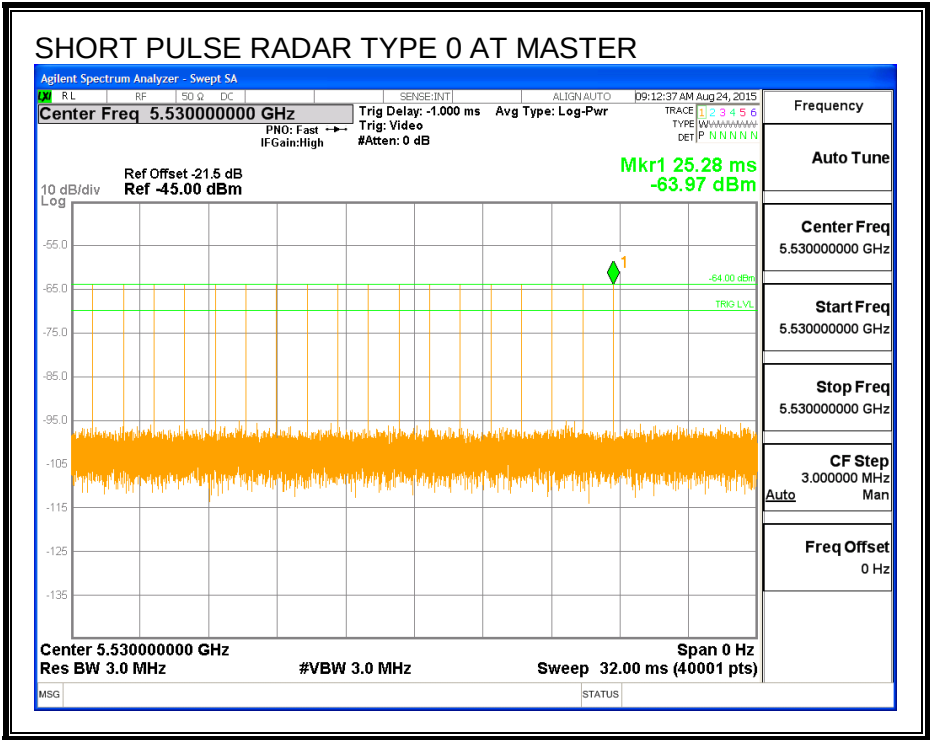
11.7. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 MHz BANDWIDTH

11.7.1. TEST CHANNEL

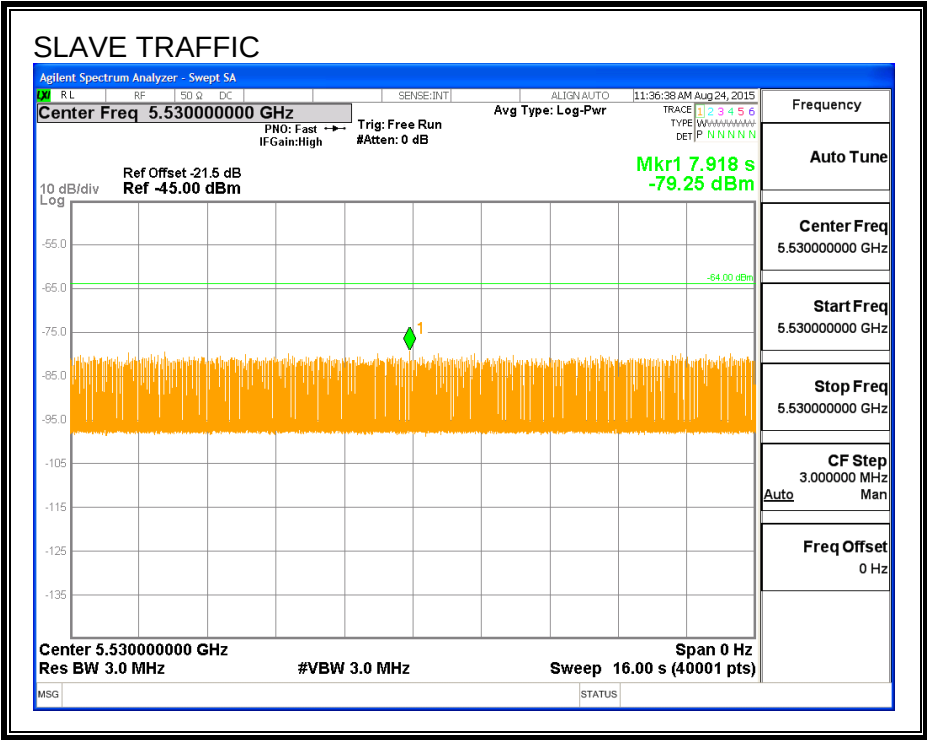
All tests were performed at a channel center frequency of 5530 MHz.

11.7.2. RADAR WAVEFORM AND TRAFFIC

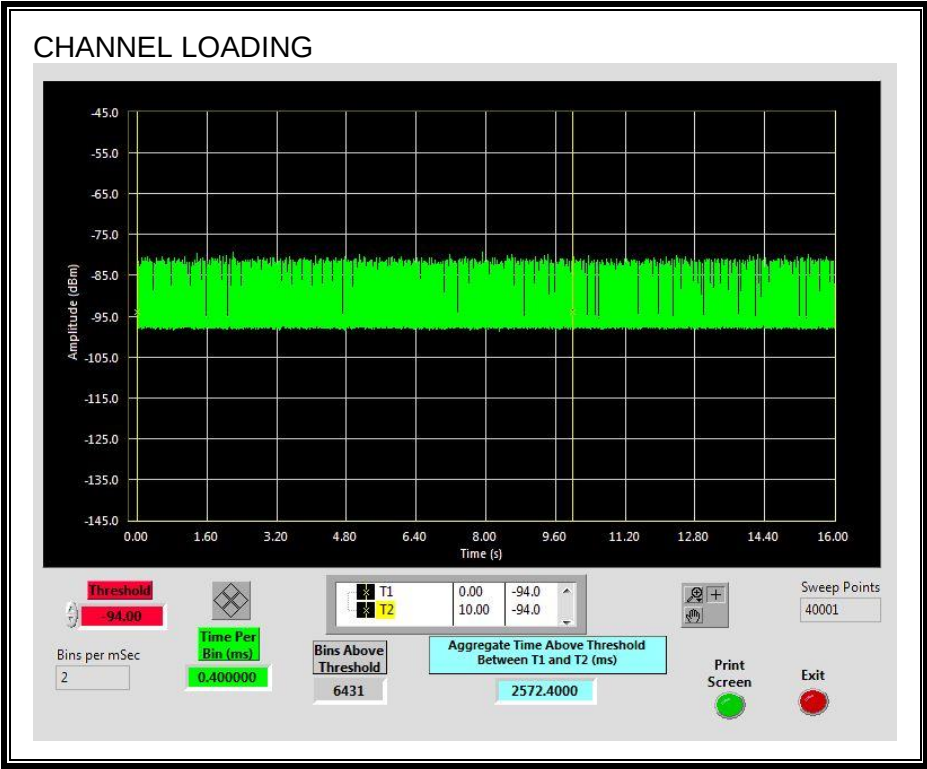
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 25.72%

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)

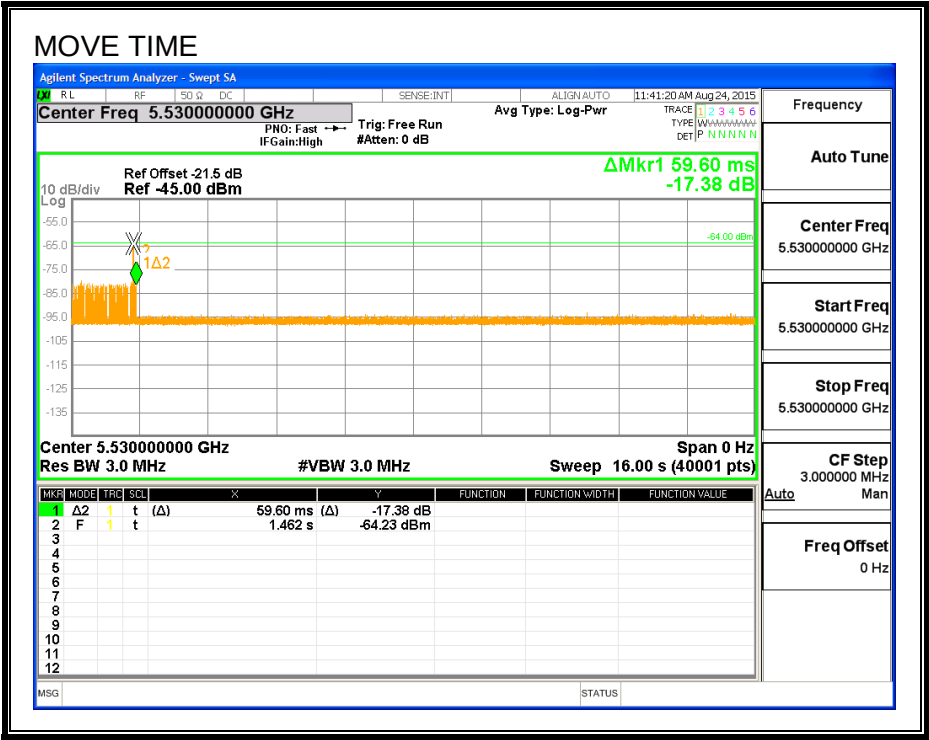
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

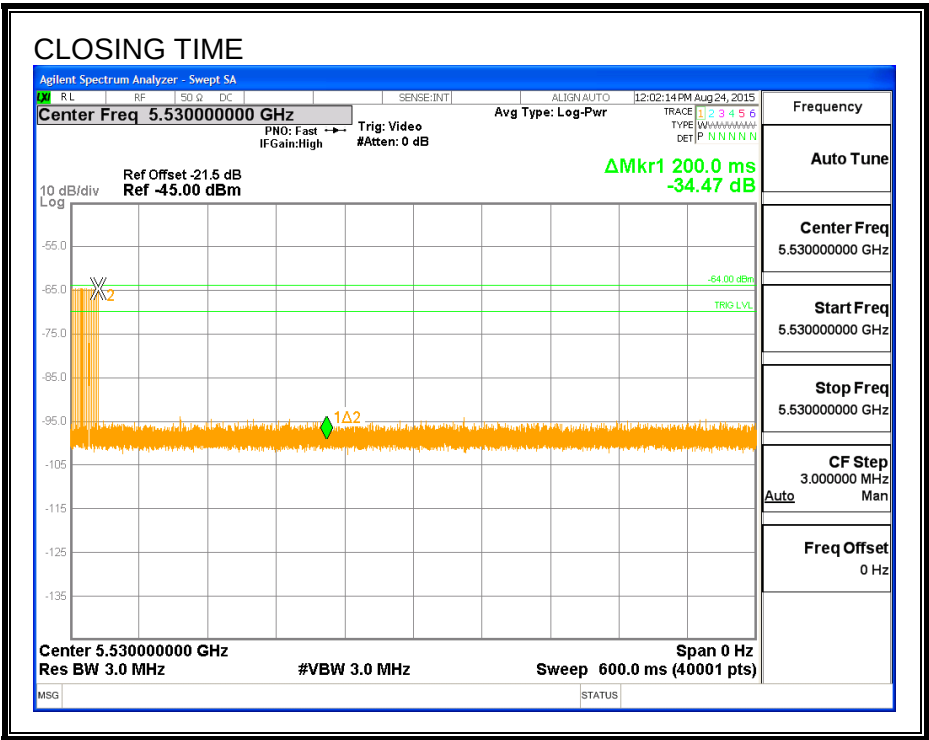
Channel Move Time (sec)	Limit (sec)
0.0596	10

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

MOVE TIME

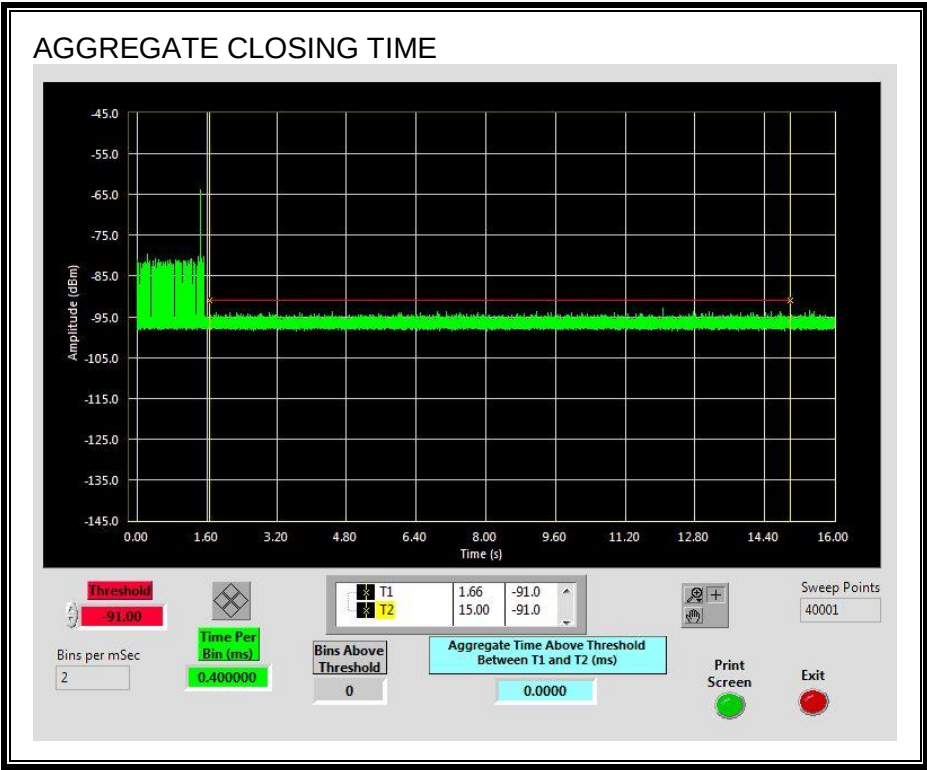


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



11.7.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

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

