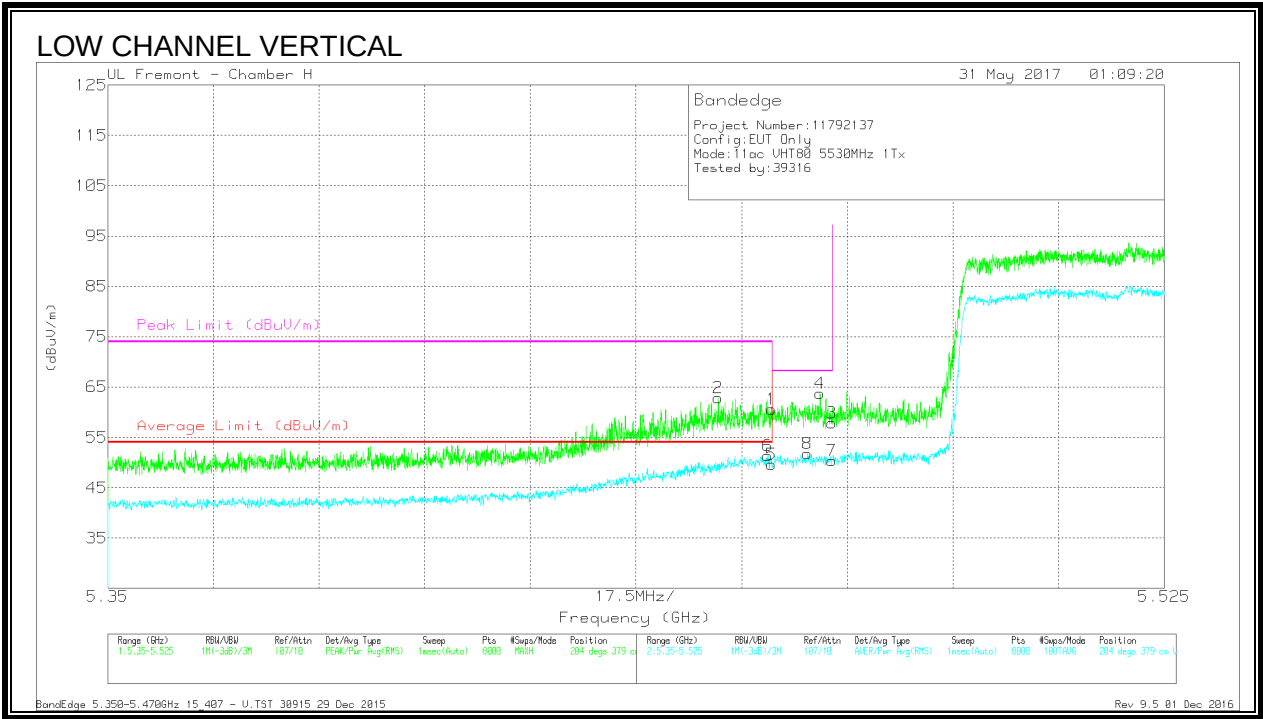




Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T344 (dB/m)	Amp/C bi/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 5.46	50.22	Pk	34.7	-24.3	60.62	-	-	74	-13.38	204	379	V
2	* 5.451	52.56	Pk	34.7	-24.4	62.86	-	-	74	-11.14	204	379	V
5	* 5.46	39.21	RMS	34.7	-24.3	49.61	54	-4.39	-	-	204	379	V
6	* 5.459	41	RMS	34.7	-24.3	51.4	54	-2.6	-	-	204	379	V
8	5.466	41.35	RMS	34.7	-24.3	51.75	-	-	-	-	204	379	V
4	5.468	53.33	Pk	34.7	-24.3	63.73	-	-	68.2	-4.47	204	379	V
3	5.47	47.44	Pk	34.7	-24.3	57.84	-	-	68.2	-10.36	204	379	V
7	5.47	39.95	RMS	34.7	-24.3	50.35	-	-	-	-	204	379	V

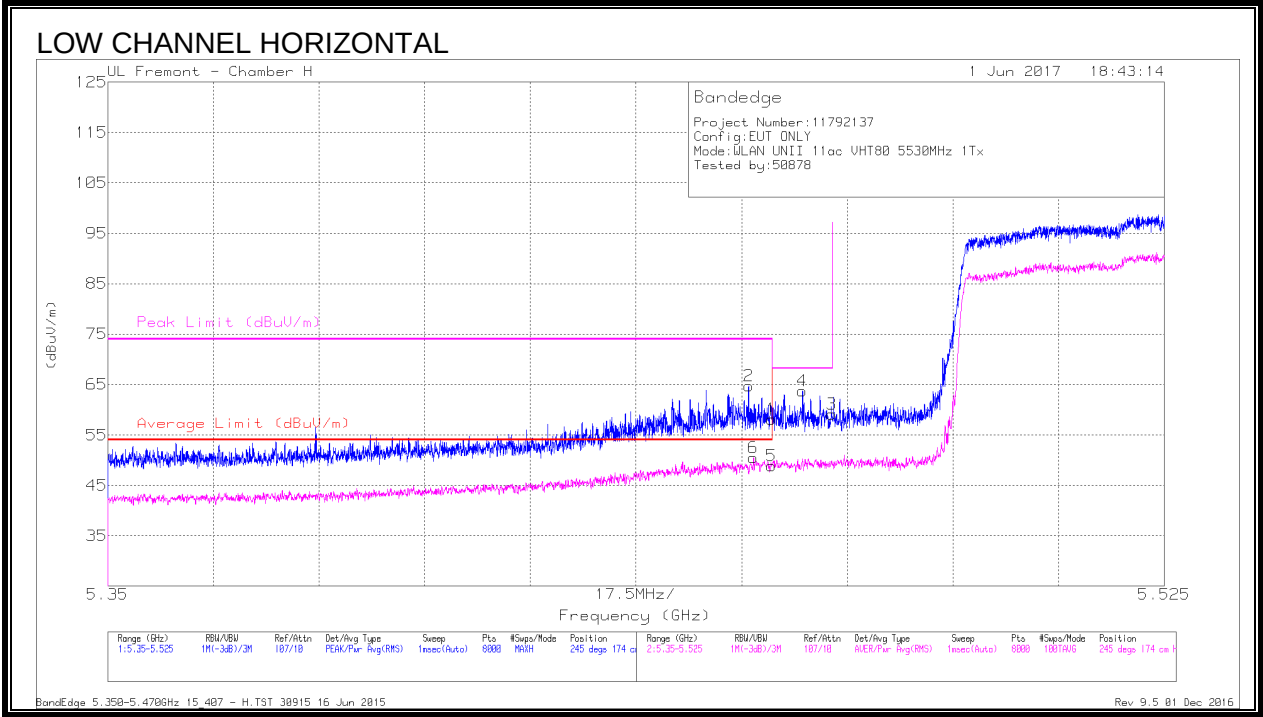
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

9.1.27. 11ac HT80 LAT 3 SISO MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

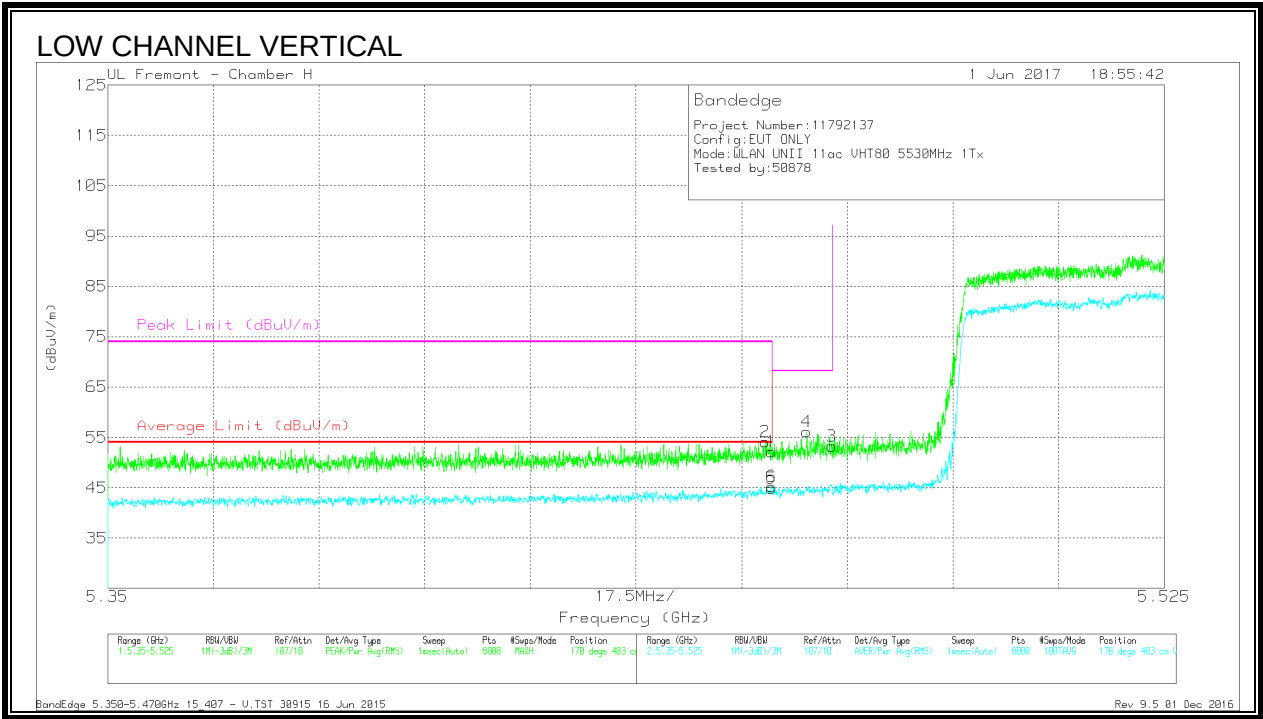


Marker	Frequency (GHz)	Measurement Reading (dBuV)	Detector	AF T344 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	47.22	Pk	34.7	-23.8	0	58.12	-	-	74	-15.88	245	174	H
2	* 5.456	53.85	Pk	34.7	-23.8	0	64.75	-	-	74	-9.25	245	174	H
3	5.47	48.24	Pk	34.7	-23.8	0	59.14	-	-	68.2	-9.06	245	174	H
4	5.465	52.85	Pk	34.7	-23.8	0	63.75	-	-	68.2	-4.45	245	174	H
5	* 5.46	37.81	RMS	34.7	-23.8	.19	48.9	54	-5.1	-	-	245	174	H
6	* 5.457	39.37	RMS	34.7	-23.8	.19	50.46	54	-3.54	-	-	245	174	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

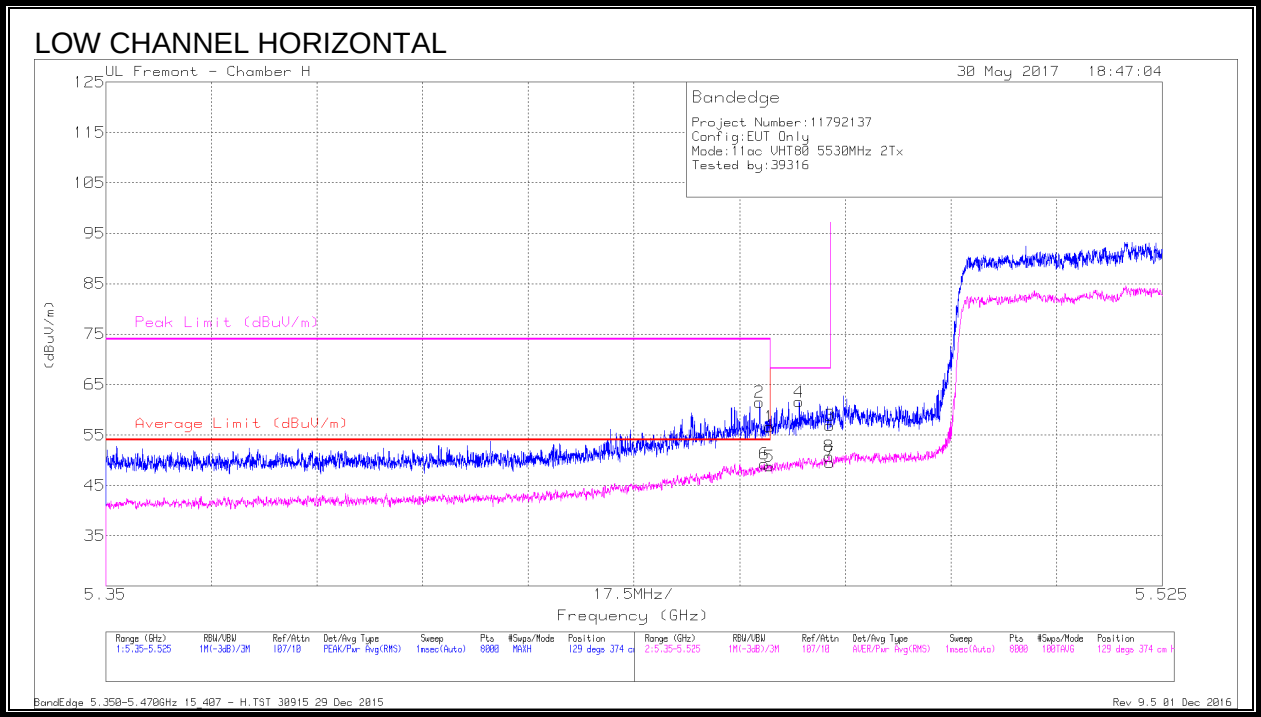


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.19	Pk	34.7	-23.8	0	52.09	-	-	74	-21.91	170	403	V
2	* 5.459	43.21	Pk	34.7	-23.8	0	54.11	-	-	74	-19.89	170	403	V
3	5.47	42.35	Pk	34.7	-23.8	0	53.25	-	-	68.2	-14.95	170	403	V
4	5.466	45.23	Pk	34.7	-23.8	0	56.13	-	-	68.2	-12.07	170	403	V
5	* 5.46	33.81	RMS	34.7	-23.8	.19	44.9	54	-9.1	-	-	170	403	V
6	* 5.46	34.15	RMS	34.7	-23.8	.19	45.24	54	-8.76	-	-	170	403	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

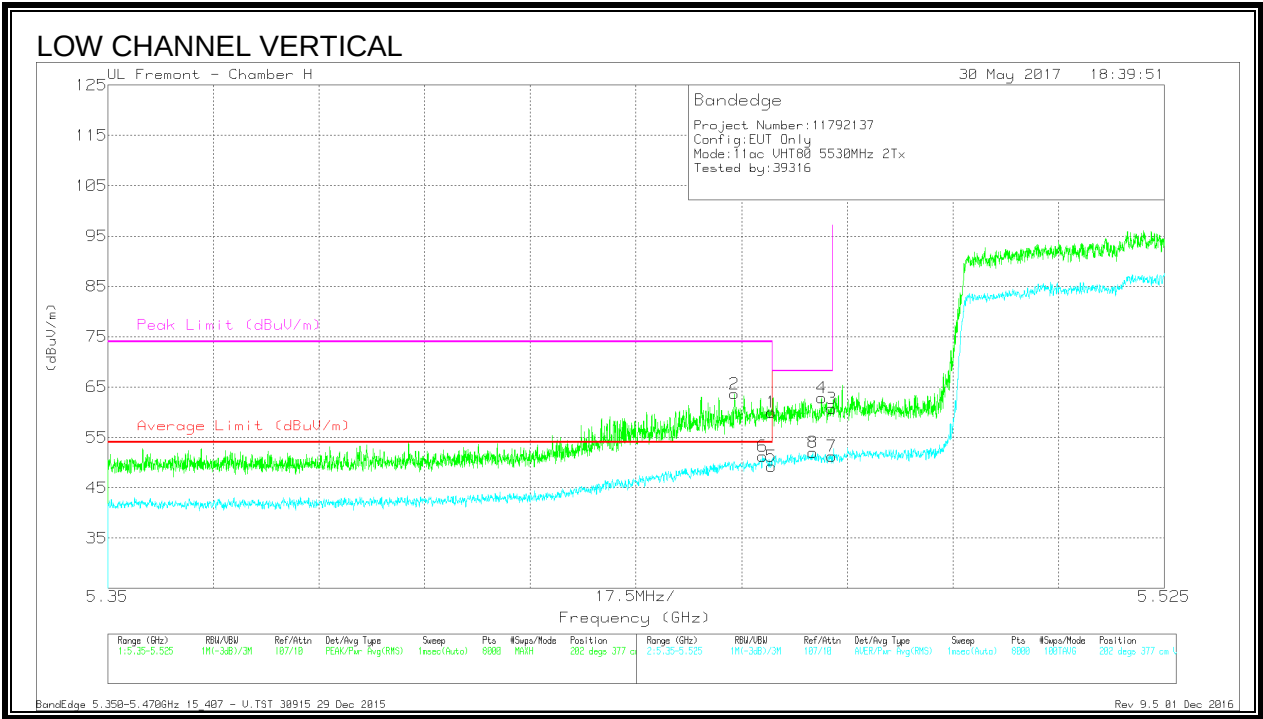
9.1.28. 11ac HT80 2TX CDD MIMO MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T344 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 5.46	46.21	Pk	34.7	-24.3	0	56.61	-	-	74	-17.39	129	374	H
2	* 5.458	51.14	Pk	34.7	-24.3	0	61.54	-	-	74	-12.46	129	374	H
5	* 5.46	38.43	RMS	34.7	-24.3	.19	49.02	54	-4.98	-	-	129	374	H
6	* 5.459	38.92	RMS	34.7	-24.3	.19	49.51	54	-4.49	-	-	129	374	H
4	5.465	51.16	Pk	34.7	-24.3	0	61.56	-	-	68.2	-6.64	129	374	H
3	5.47	46.49	Pk	34.7	-24.3	0	56.89	-	-	68.2	-11.31	129	374	H
7	5.47	39.13	RMS	34.7	-24.3	.19	49.72	-	-	-	-	129	374	H
8	5.47	40.4	RMS	34.7	-24.3	.19	50.99	-	-	-	-	129	374	H

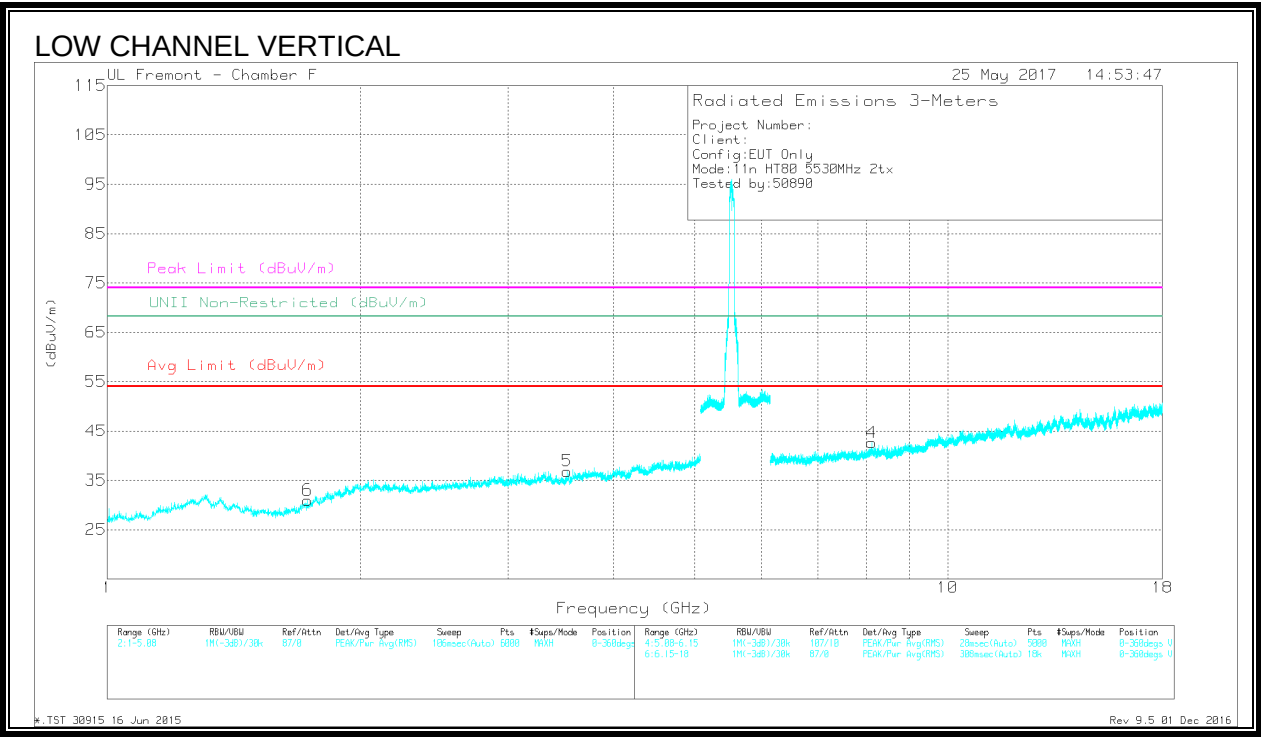
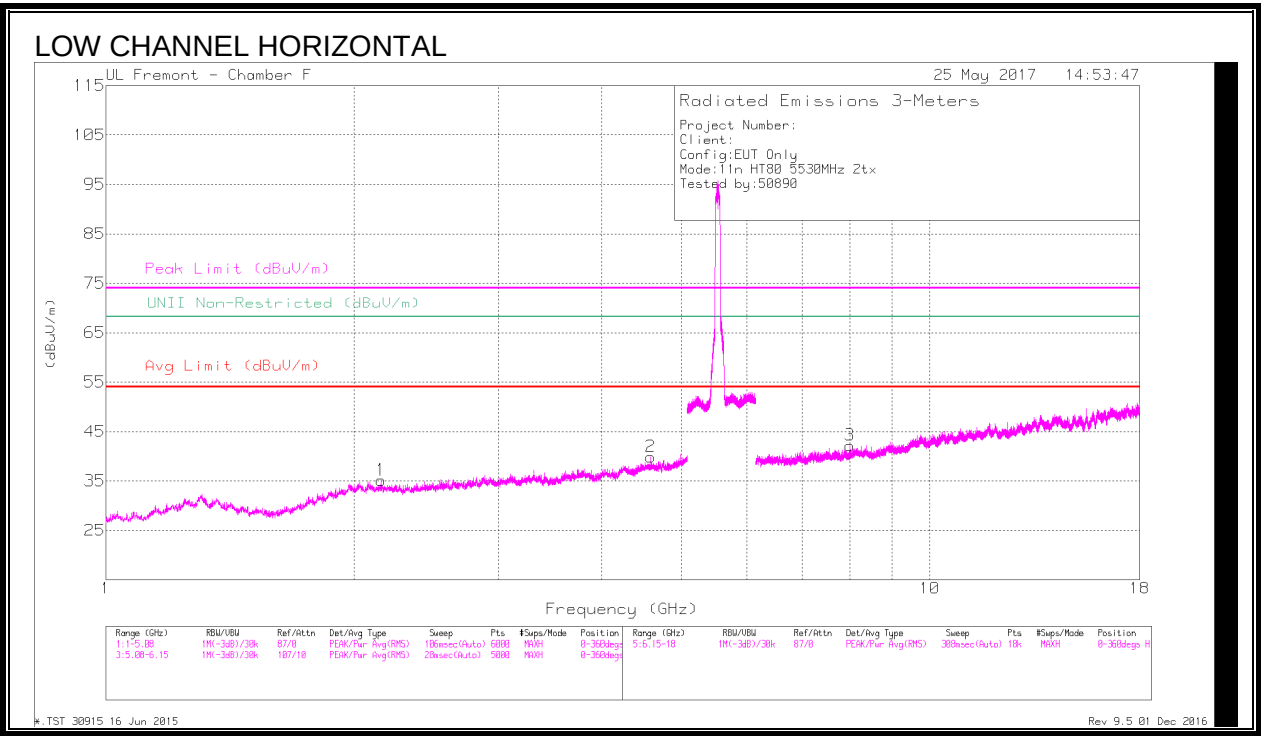
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection



Marker	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T344 (dB/m)	Amp/C bi/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
1	* 5.46	49.55	Pk	34.7	-24.3	59.95	-	-	74	-14.05	202	377	V
2	* 5.454	53.28	Pk	34.7	-24.3	63.68	-	-	74	-10.32	202	377	V
5	* 5.46	38.87	RMS	34.7	-24.3	49.27	54	-4.73	-	-	202	377	V
6	* 5.458	40.85	RMS	34.7	-24.3	51.25	54	-2.75	-	-	202	377	V
8	5.467	41.56	RMS	34.7	-24.3	51.96	-	-	-	-	202	377	V
4	5.468	52.52	Pk	34.7	-24.3	62.92	-	-	68.2	-5.28	202	377	V
3	5.47	50.35	Pk	34.7	-24.3	60.75	-	-	68.2	-7.45	202	377	V
7	5.47	40.83	RMS	34.7	-24.3	51.23	-	-	-	-	202	377	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



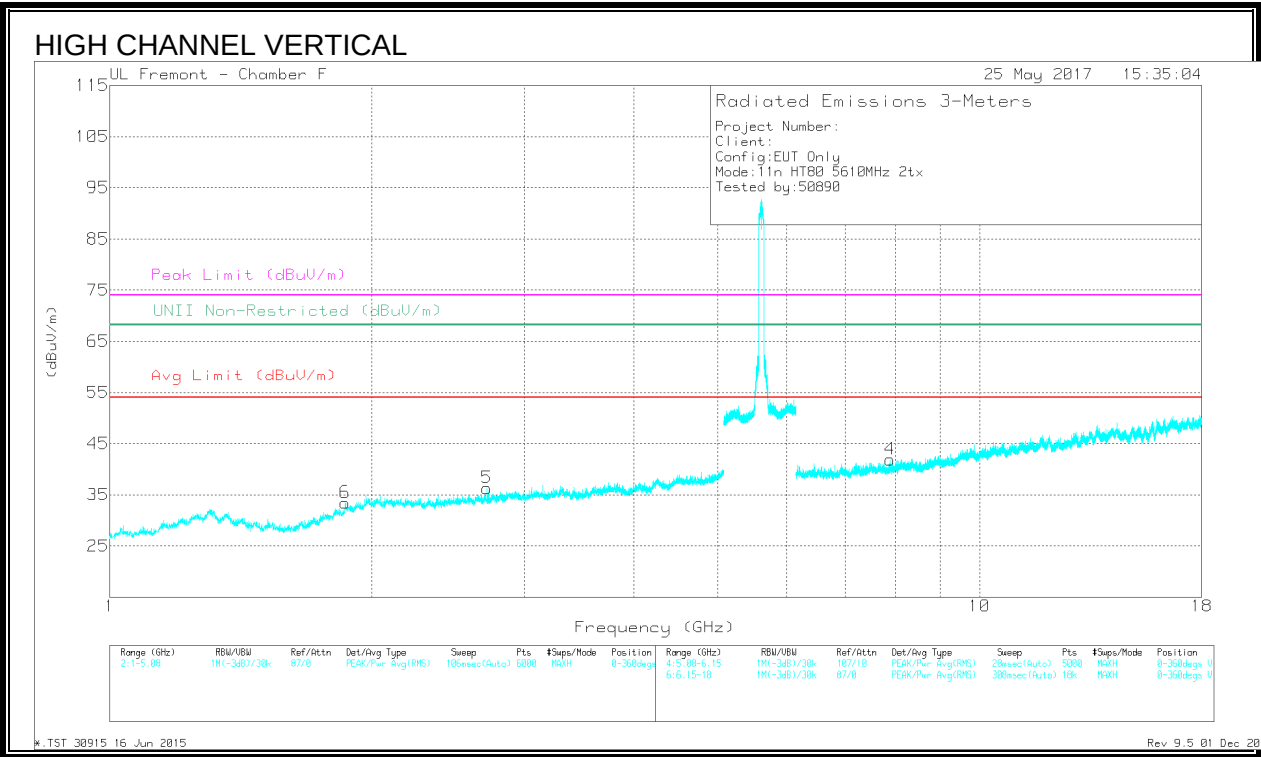
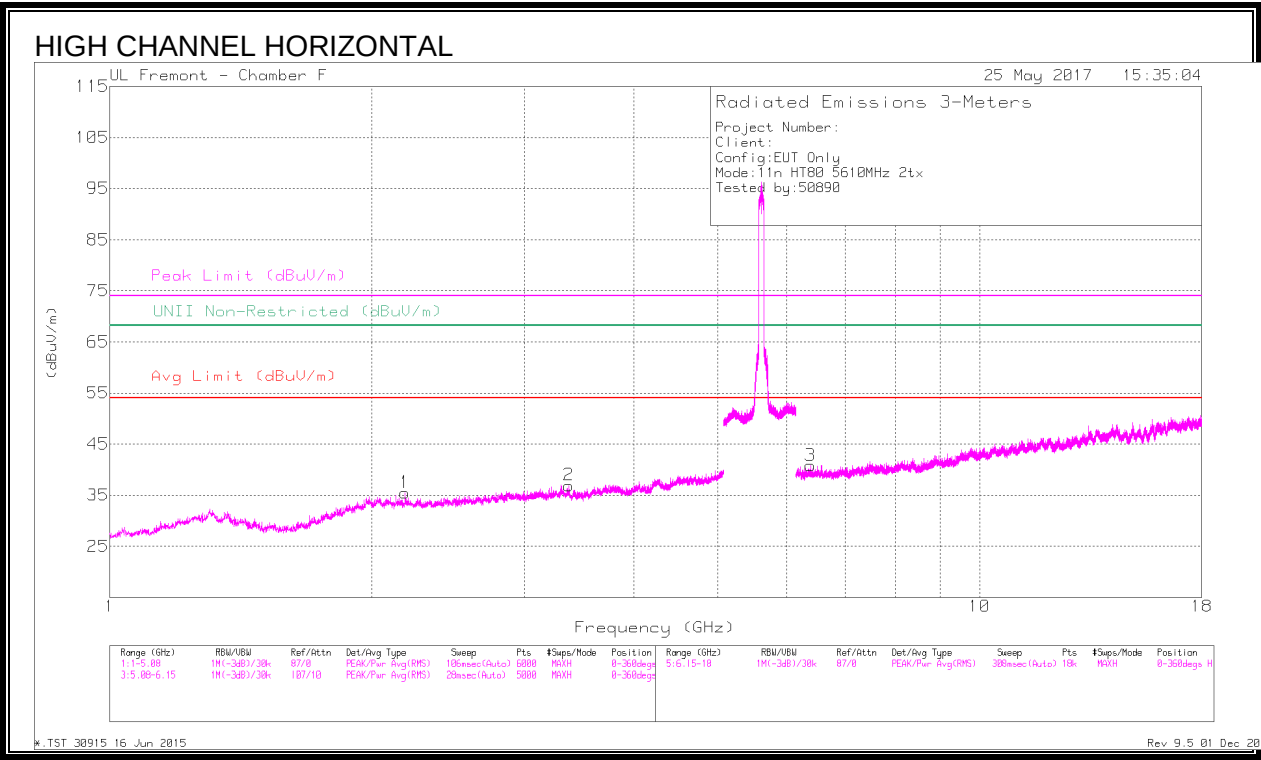
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Cor (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	2.155	40.2	PK-U	32.1	-30.9	0	41.4	-	-	-	-	68.2	-26.8	354	206	H
2	* 4.584	39.85	PK-U	34.1	-28.2	0	45.75	-	-	74	-28.25	-	-	245	187	H
	* 4.585	27.76	ADR	34.1	-28.2	.19	33.85	54	-20.15	-	-	-	-	245	187	H
5	* 3.526	40.34	PK-U	33	-29.4	0	43.94	-	-	74	-30.06	-	-	219	119	V
	* 3.528	27.61	ADR	33	-29.3	.19	31.5	54	-22.5	-	-	-	-	219	119	V
6	1.732	39.98	PK-U	28.8	-31.4	0	37.38	-	-	-	-	68.2	-30.82	76	311	V
3	8.001	37.18	PK-U	36	-24.8	0	48.38	-	-	-	-	68.2	-19.82	311	232	H
4	* 8.117	36.65	PK-U	36.1	-23.9	0	48.85	-	-	74	-25.15	-	-	191	354	V
	* 8.119	24.65	ADR	36.1	-23.9	.19	37.04	54	-16.96	-	-	-	-	191	354	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



DATA

marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb l/Ftr/P ad (dB)	DC Cor (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/ m)	PK Margin (dB)	Azimu t (Degs)	Height (cm)	Polarity
1	2.183	39.87	PK-U	32.1	-30.8	0	41.17	-	-	-	-	68.2	-27.03	16	231	H
2	3.37	40.03	PK-U	33.2	-29.2	0	44.03	-	-	-	-	68.2	-24.17	300	343	H
3	* 2.715	39.71	PK-U	32.6	-30.5	0	41.81	-	-	74	-32.19	-	-	35	240	V
	* 2.713	27.98	ADR	32.5	-30.5	.19	30.17	54	-23.83	-	-	-	-	35	240	V
6	1.863	40.52	PK-U	30.7	-31.1	0	40.12	-	-	-	-	68.2	-28.08	336	355	V
3	6.392	37.59	PK-U	35.7	-26.2	0	47.09	-	-	-	-	68.2	-21.11	154	299	H
4	7.892	36.55	PK-U	35.9	-24.3	0	48.15	-	-	-	-	68.2	-20.05	336	345	V

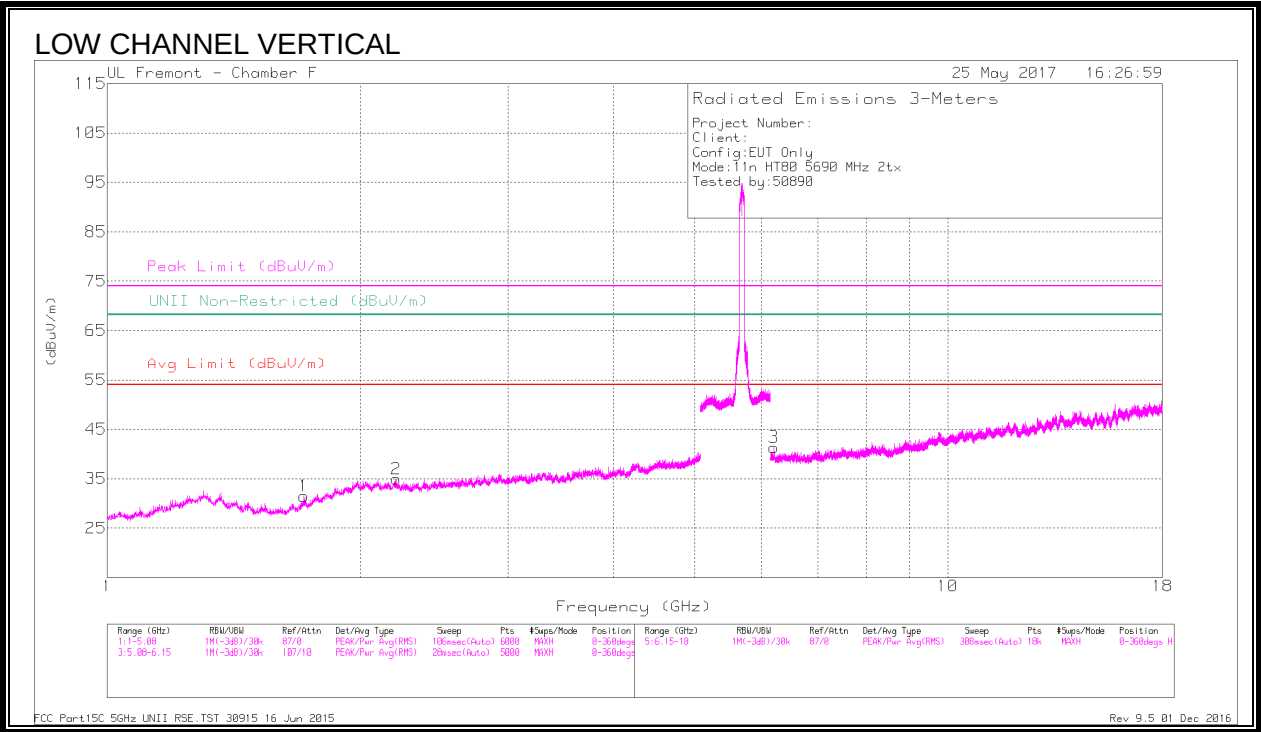
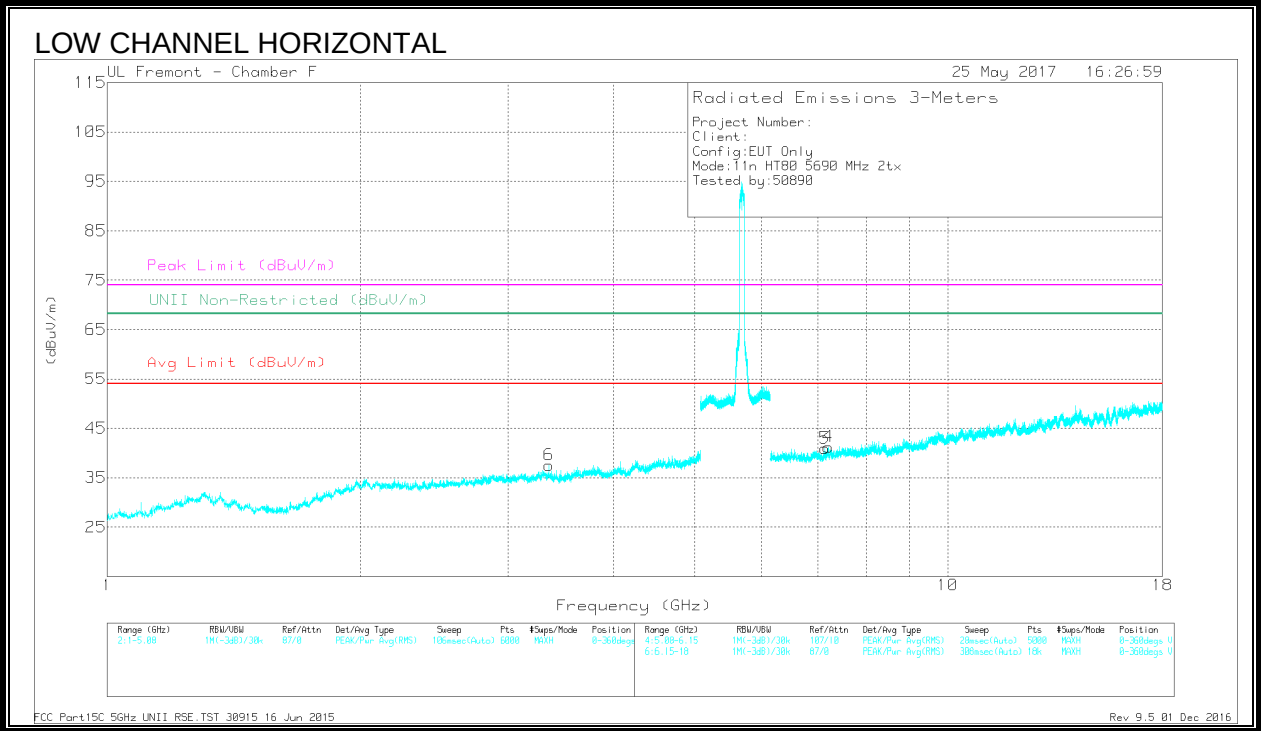
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.29. 11ac HT80 2TX CDD MIMO STRADDLE CHANNEL 138

HARMONICS AND SPURIOUS EMISSIONS



DATA

Marker s	Frequ ncy (GHz)	Meter Readin g (dBuV)	Det	AF T119 (dB/m)	Amp/C b/Fltr/ Pad (dB)	DC Corr (dB)	Correct ed Readin g (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	1.713	40.94	PK-U	28.6	-31.4	0	38.14	-	-	-	-	68.2	-30.06	255	102	H
2	* 2.208	40.3	PK-U	32	-30.5	0	41.8	-	-	74	-32.2	-	-	36	216	H
	* 2.207	28.27	ADR	32	-30.5	.19	29.96	54	-24.04	-	-	-	-	36	216	H
6	* 3.355	39.74	PK-U	33.3	-29.5	0	43.54	-	-	74	-30.46	-	-	35	339	V
	* 3.356	27.59	ADR	33.3	-29.5	.19	31.58	54	-22.42	-	-	-	-	35	339	V
3	6.209	37.94	PK-U	35.4	-26.2	0	47.14	-	-	-	-	68.2	-21.06	100	206	H
4	7.208	37.12	PK-U	35.9	-25.8	0	47.22	-	-	-	-	68.2	-20.98	186	277	V
5	7.142	37.89	PK-U	35.8	-26.2	0	47.49	-	-	-	-	68.2	-20.71	97	118	V

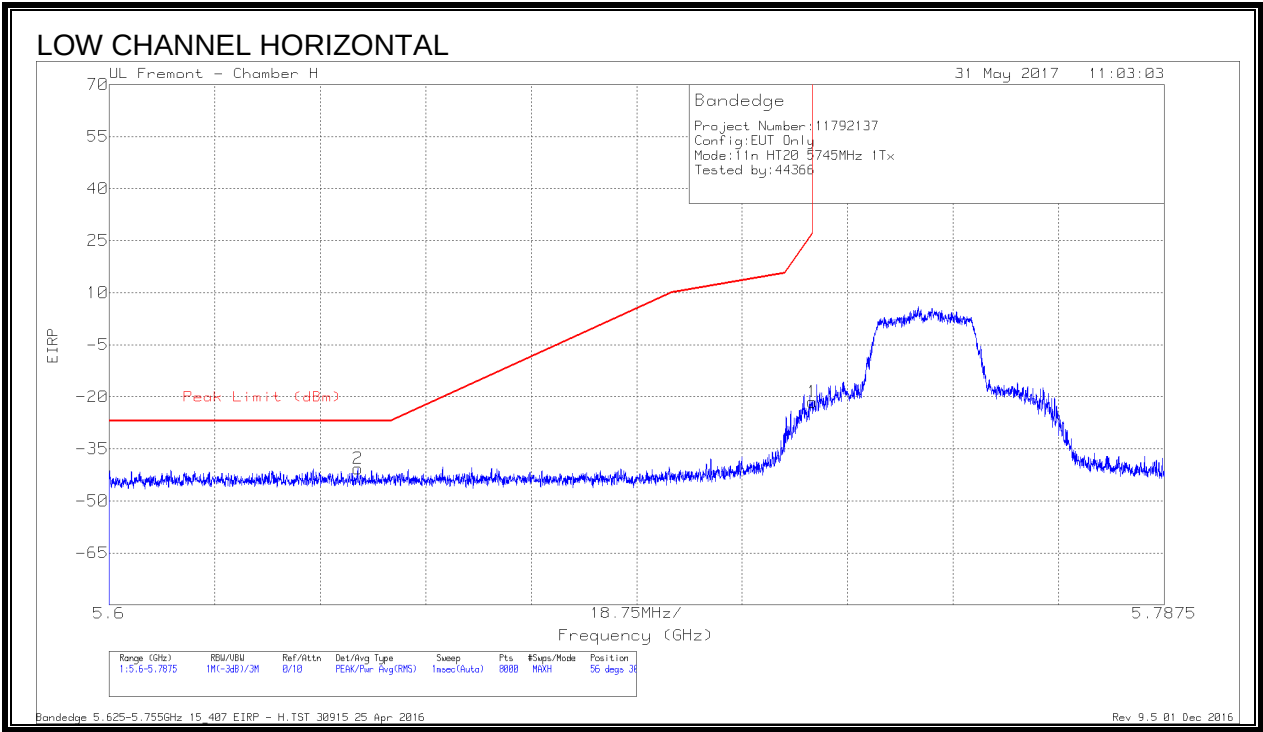
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

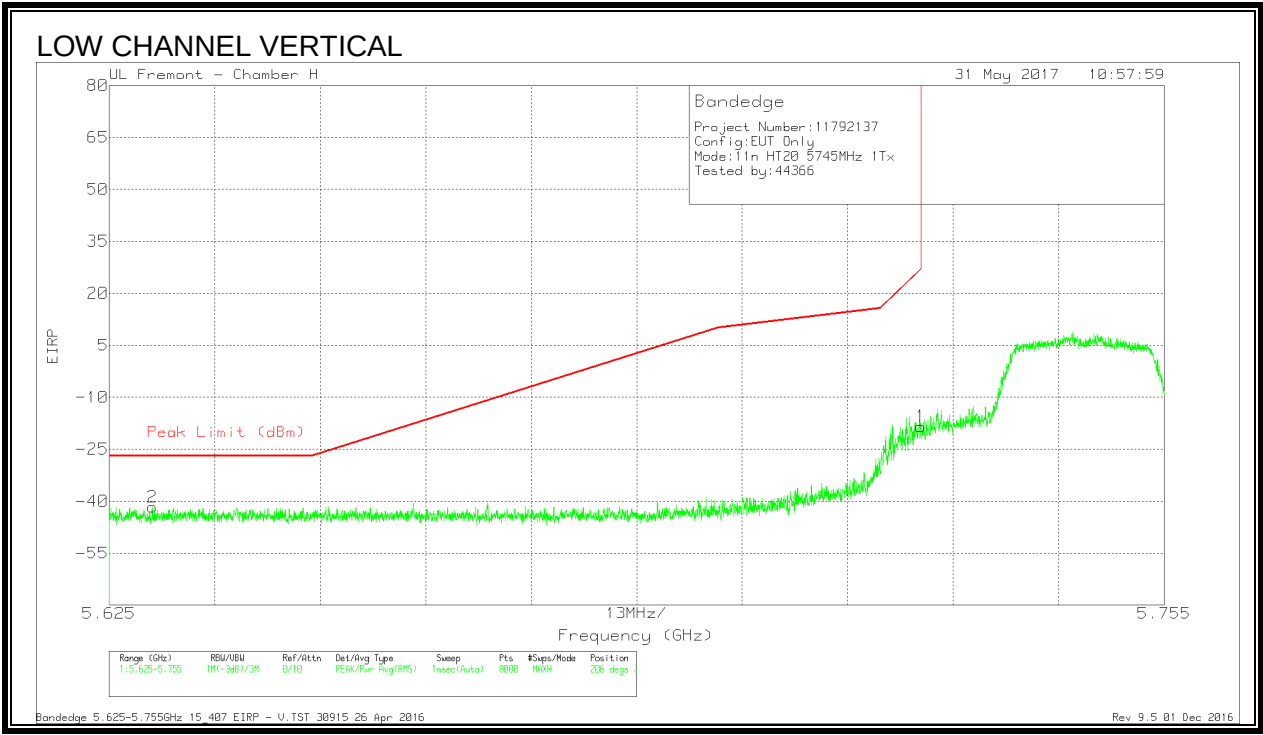
9.1.30. 11n HT20 UAT 2 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-63.79	Pk	34.9	-23.6	11.8	-40.69	-27	-13.69	56	302	H
1	5.725	-44.86	Pk	35.1	-23.5	11.8	-21.46	26.96	-48.42	56	302	H

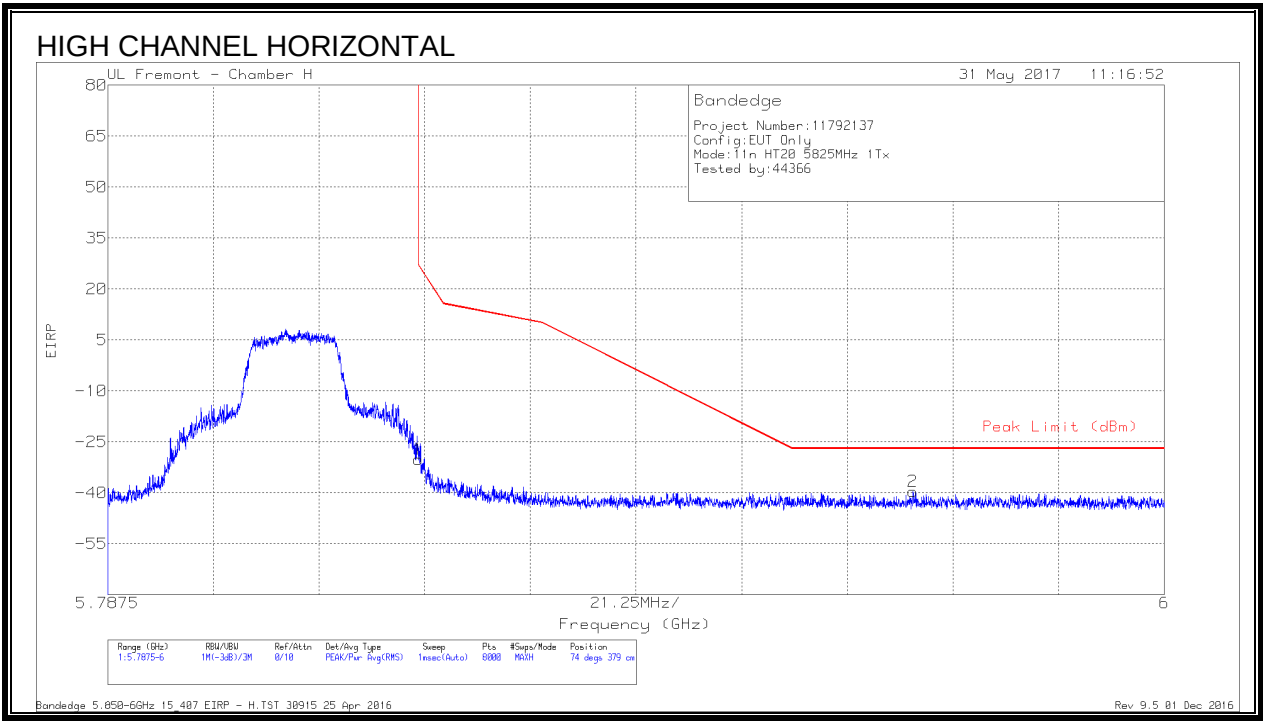
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63	-64.86	Pk	34.9	-23.5	11.8	-41.66	-27	-14.66	206	359	V
1	5.725	-41.82	Pk	35.1	-23.5	11.8	-18.42	27	-45.42	206	359	V

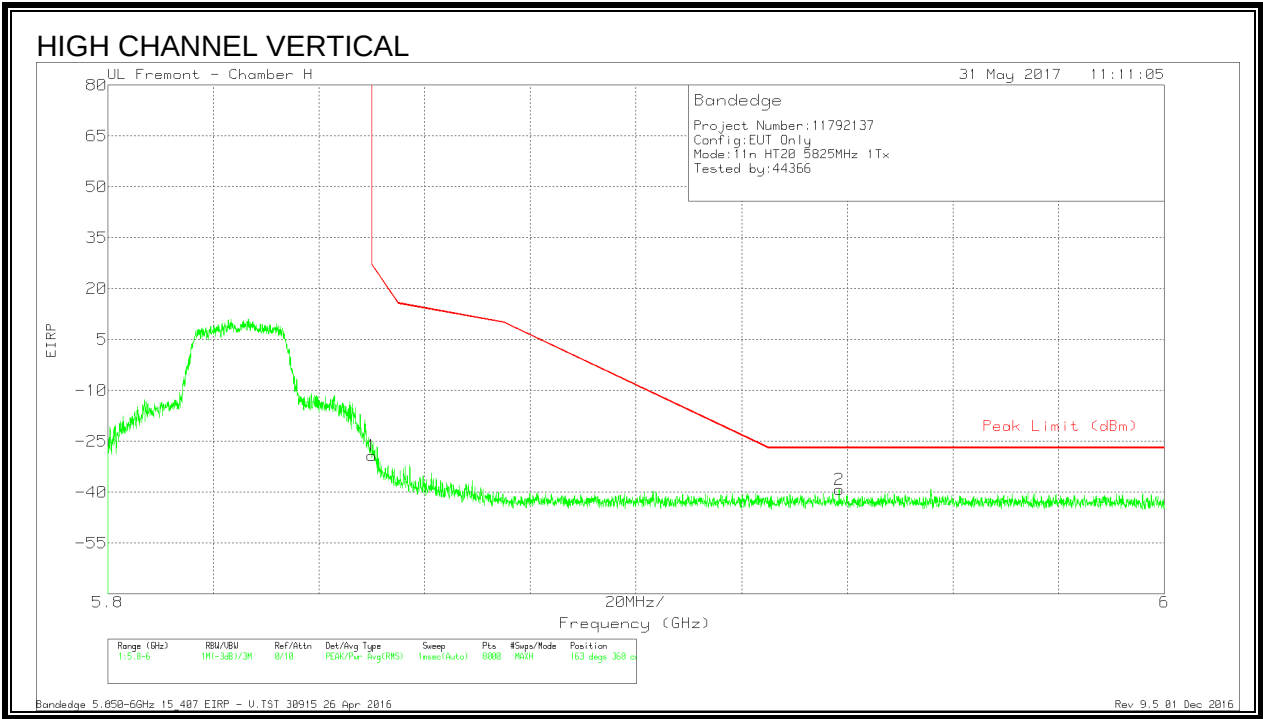
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AFT344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.98	Pk	35.4	-23.3	11.8	-30.08	26.98	-57.06	74	379	H
2	5.949	-63.71	Pk	35.5	-23.1	11.8	-39.51	-27	-12.51	74	379	H

Pk - Peak detector

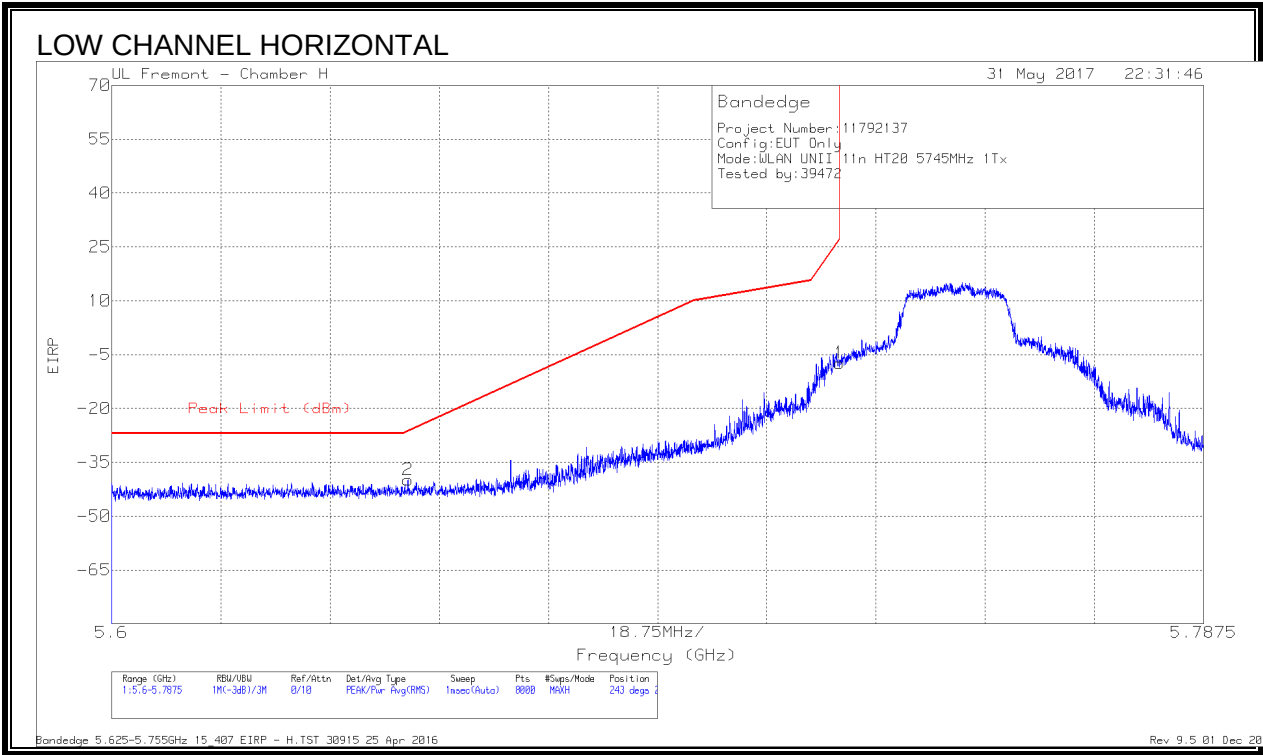


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.13	Pk	35.4	-23.3	11.8	-29.23	26.99	-56.22	163	368	V
2	5.938	-63.4	Pk	35.5	-23.1	11.8	-39.2	-27	-12.2	163	368	V

Pk - Peak detector

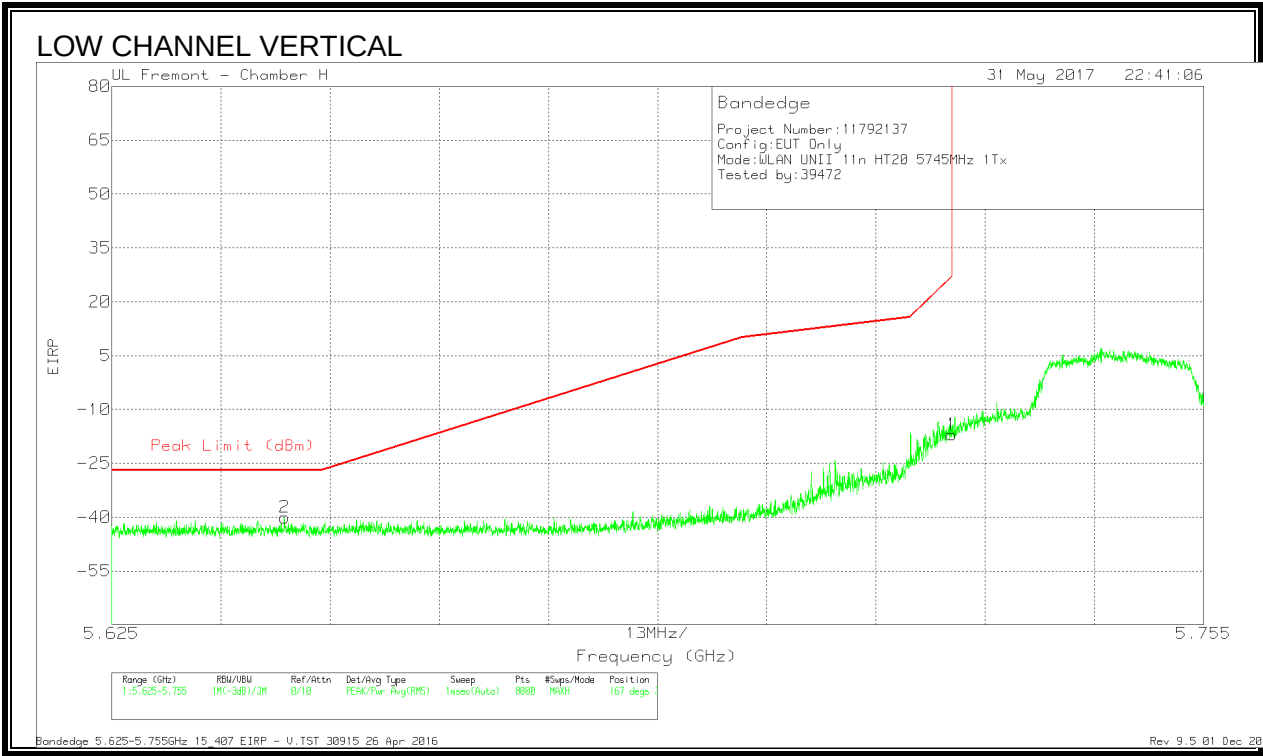
9.1.31. 11n HT20 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-30.82	Pk	35.1	-23.5	11.8	-7.42	26.96	-34.38	243	233	H
2	5.651	-63.04	Pk	34.9	-23.6	11.8	-39.94	-26.34	-13.6	243	233	H

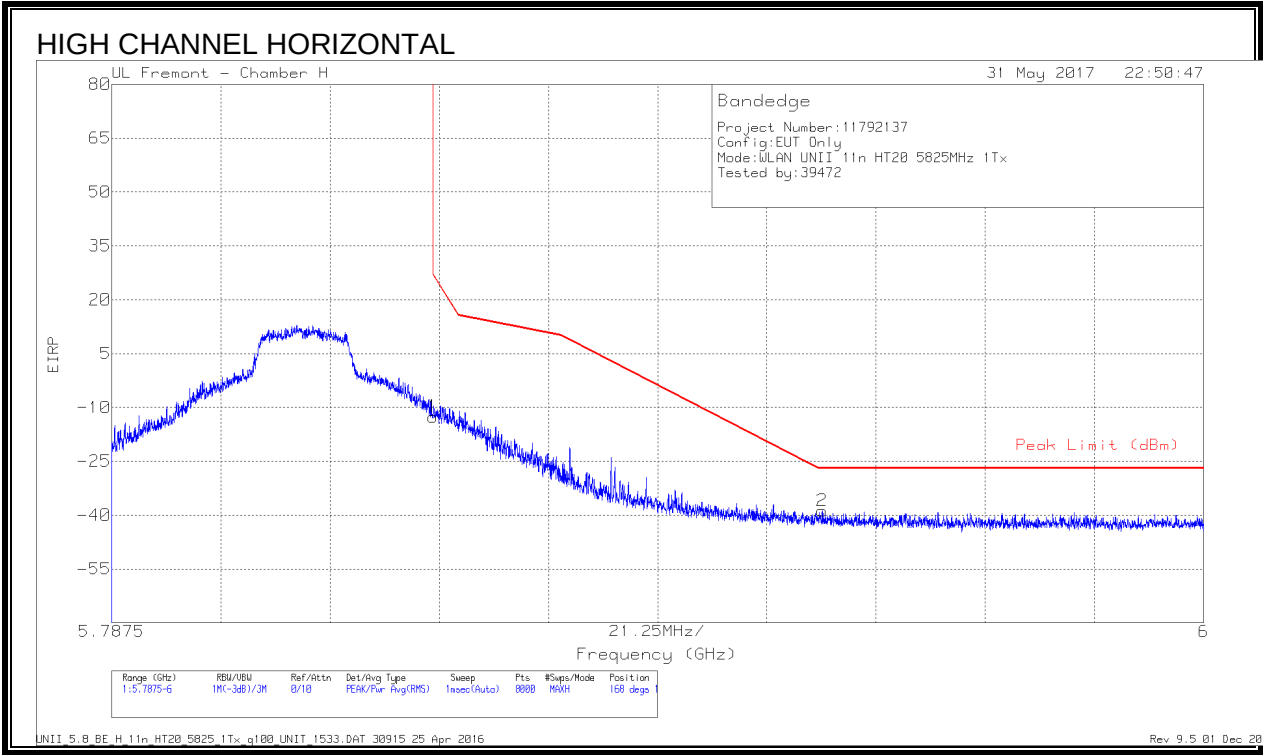
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-40.41	Pk	35.1	-23.5	11.8	-17.01	27	-44.01	167	383	V
2	5.646	-63.2	Pk	34.9	-23.6	11.8	-40.1	-27	-13.1	167	383	V

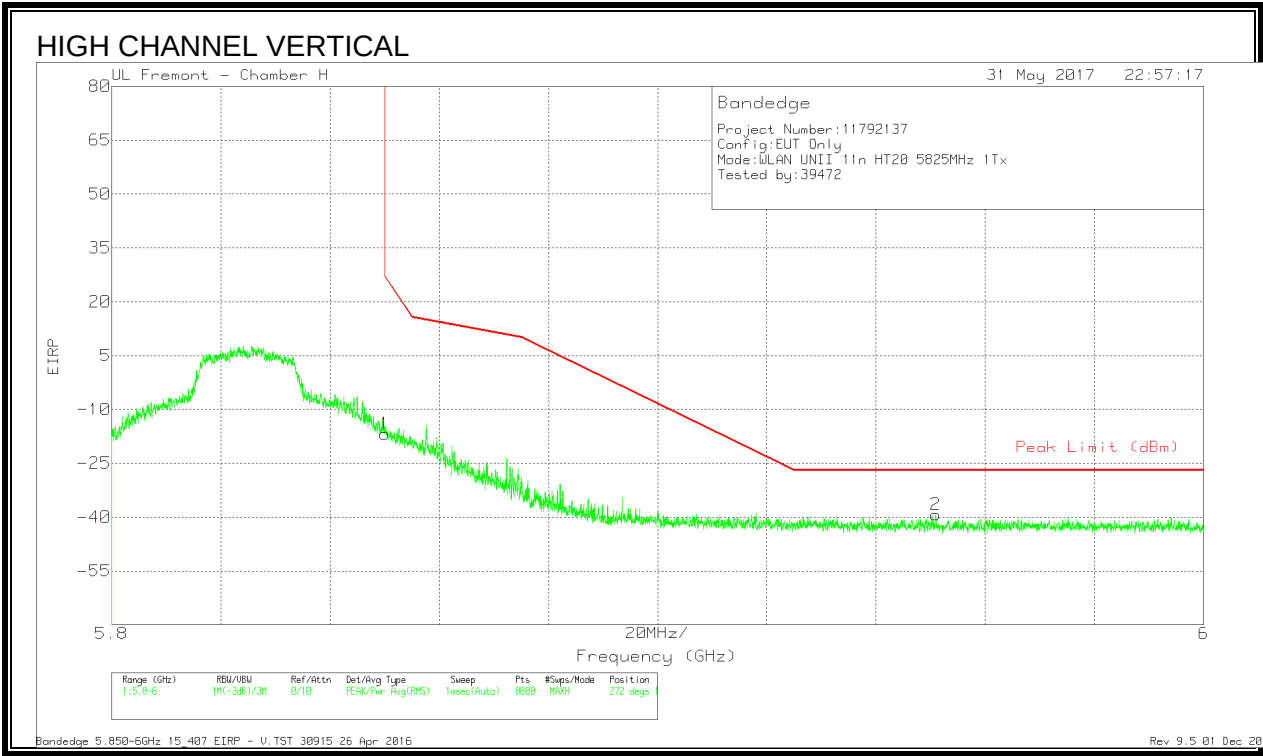
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-36.5	Pk	35.4	-23.3	11.8	-12.6	26.98	-39.58	168	104	H
2	5.926	-63.01	Pk	35.5	-23.1	11.8	-38.81	-27	-11.81	168	104	H

Pk - Peak detector

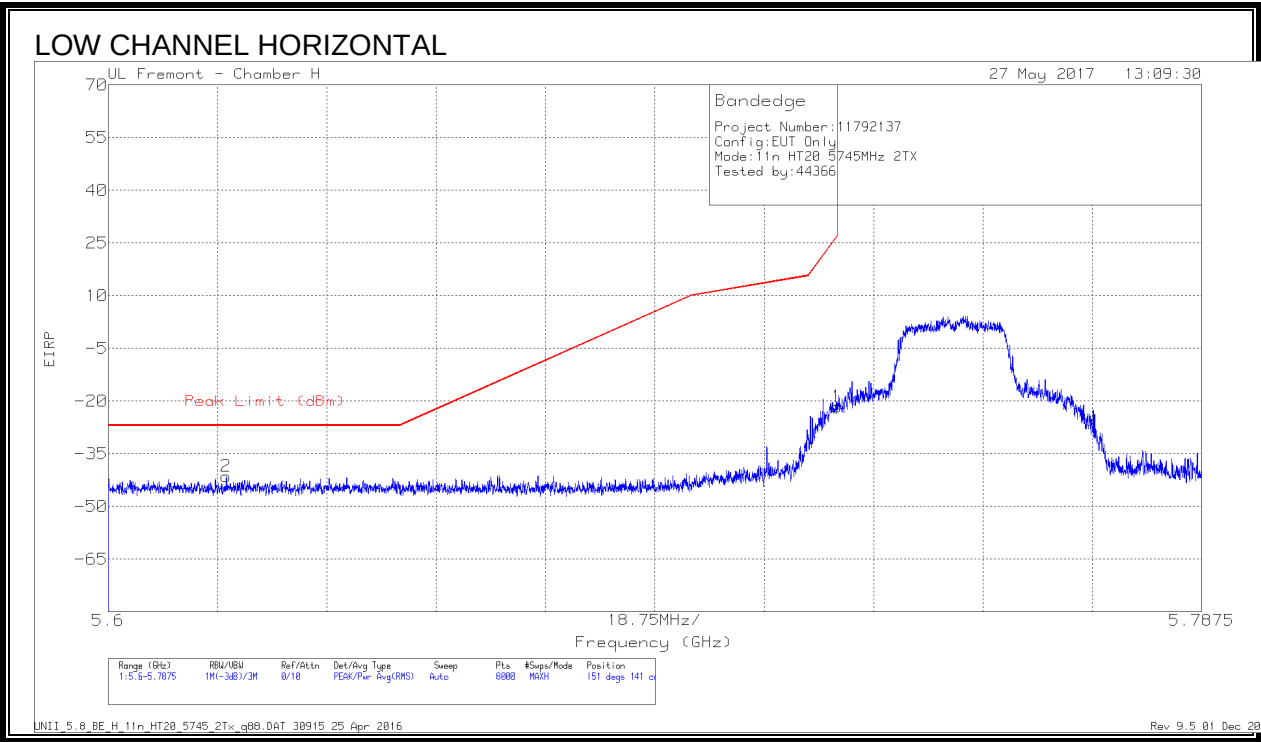


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-40.74	Pk	35.4	-23.3	11.8	-16.84	26.99	-43.83	272	111	V
2	5.951	-63.55	Pk	35.5	-23.1	11.8	-39.35	-27	-12.35	272	111	V

Pk - Peak detector

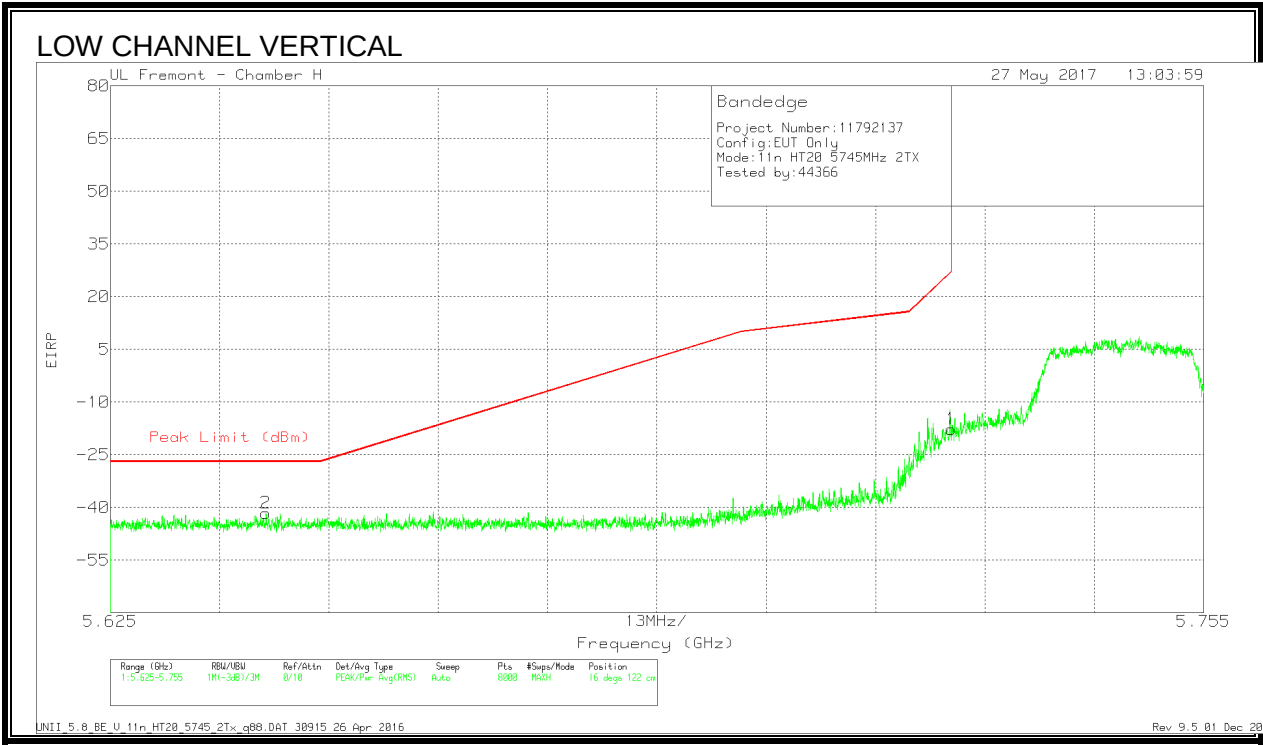
9.1.32. 11n HT20 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62	-64.15	Pk	34.9	-24	11.8	-41.45	-27	-14.45	151	141	H
1	5.725	-44.48	Pk	35.1	-24.1	11.8	-21.68	26.96	-48.64	151	141	H

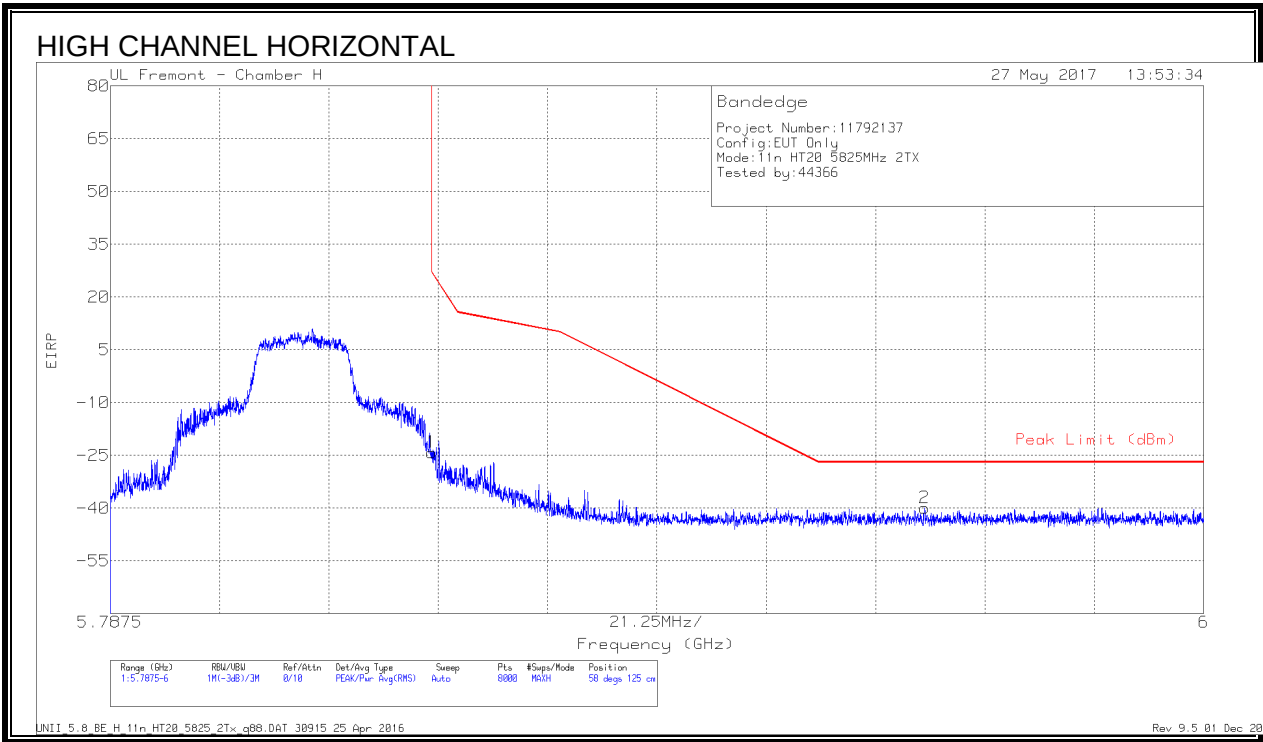
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-64.2	Pk	34.9	-24.1	11.8	-41.6	-27	-14.6	16	122	V
1	5.725	-40.62	Pk	35.1	-24.1	11.8	-17.82	27	-44.82	16	122	V

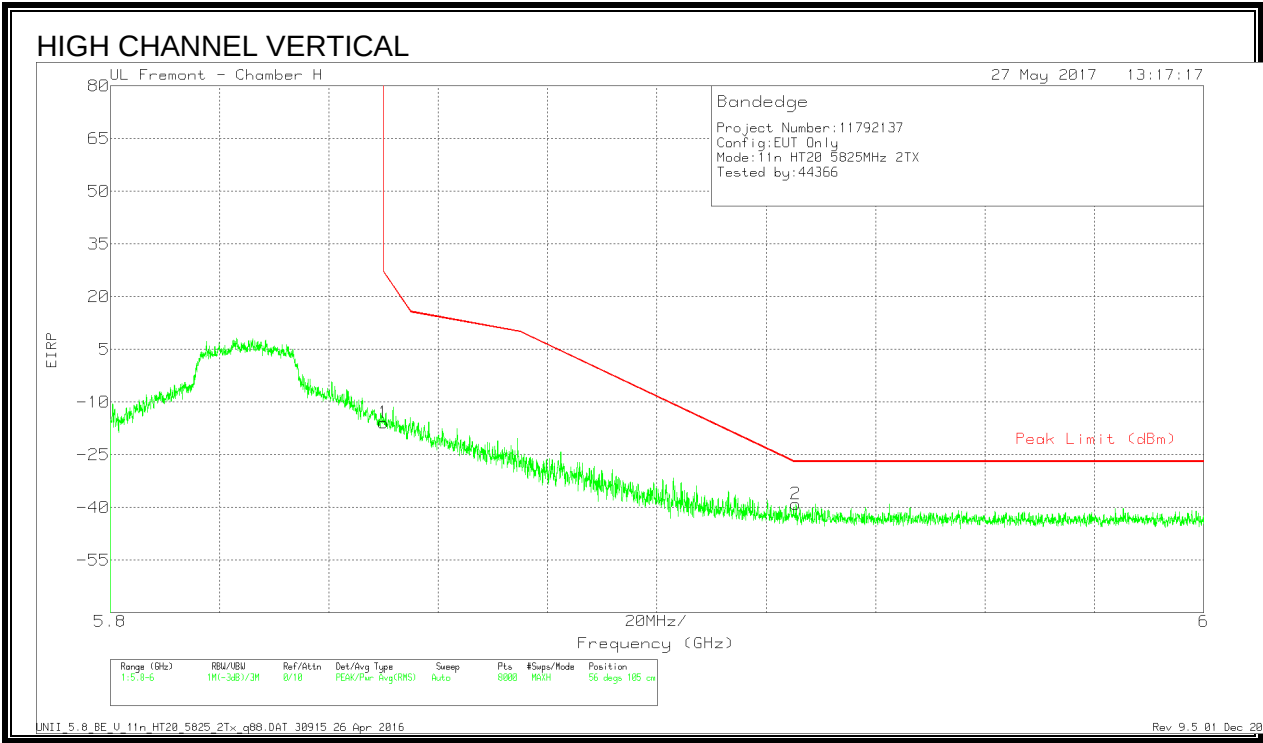
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



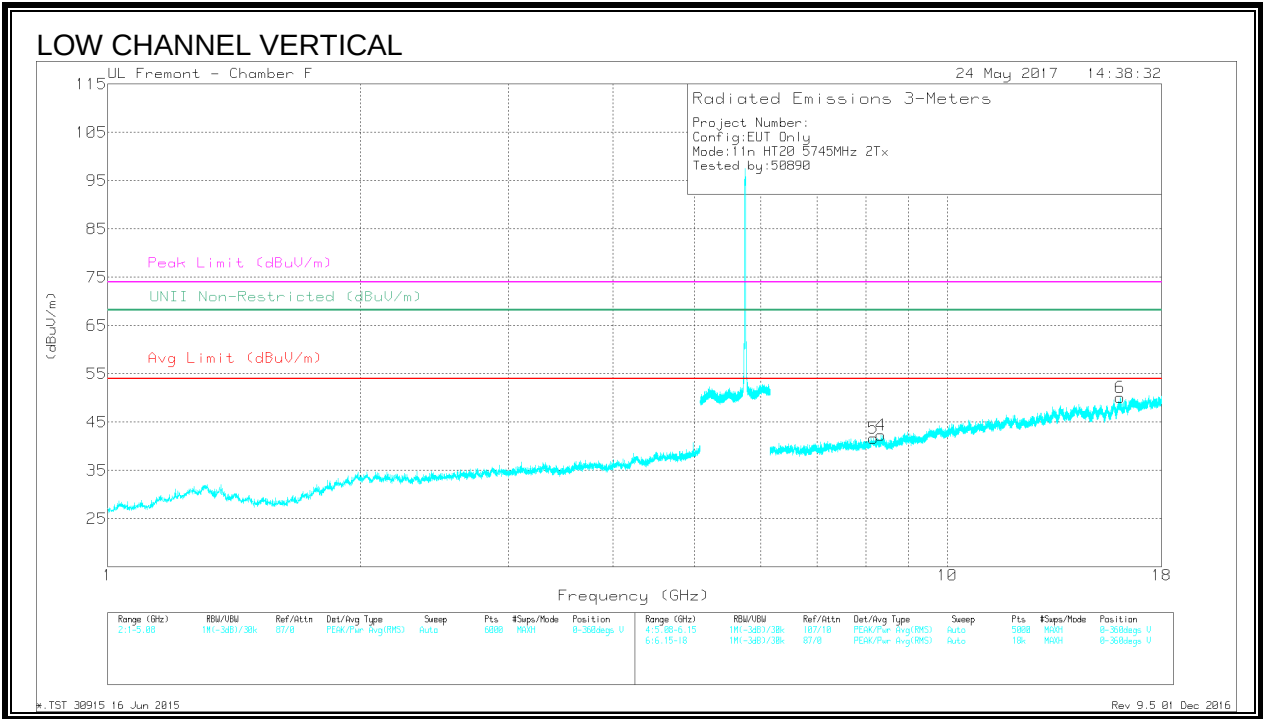
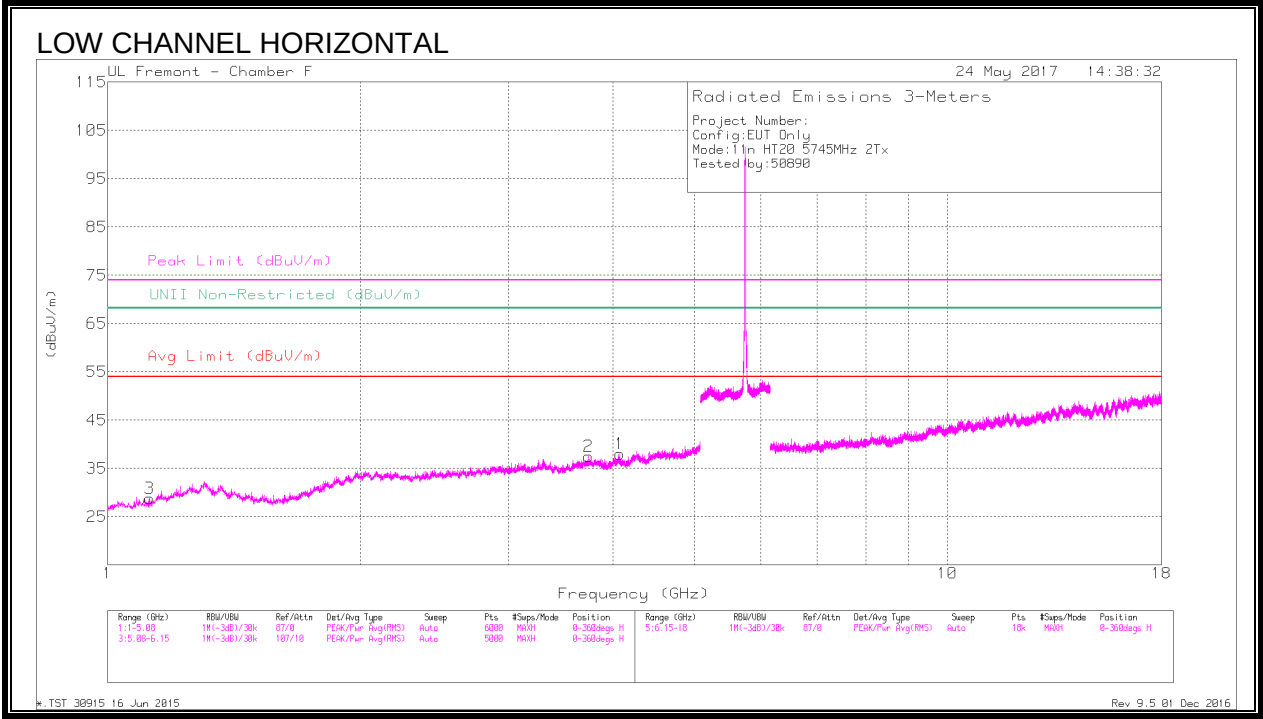
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-47.52	Pk	35.4	-23.9	11.8	-24.22	26.98	-51.2	58	125	H
2	5.946	-63.48	Pk	35.5	-23.7	11.8	-39.88	-27	-12.88	58	125	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Fltr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-39.24	Pk	35.4	-23.9	11.8	-15.94	26.99	-42.93	56	105	V
2	5.925	-62.59	Pk	35.5	-23.7	11.8	-38.99	-27	-11.99	56	105	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



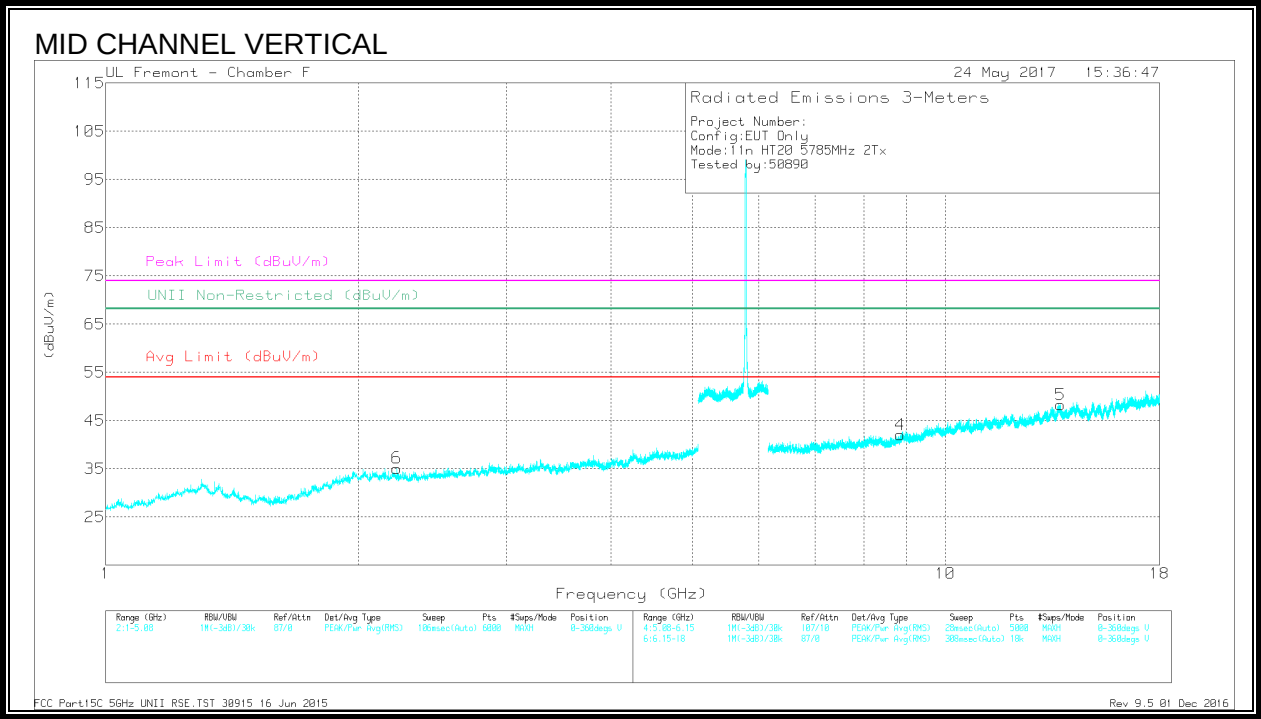
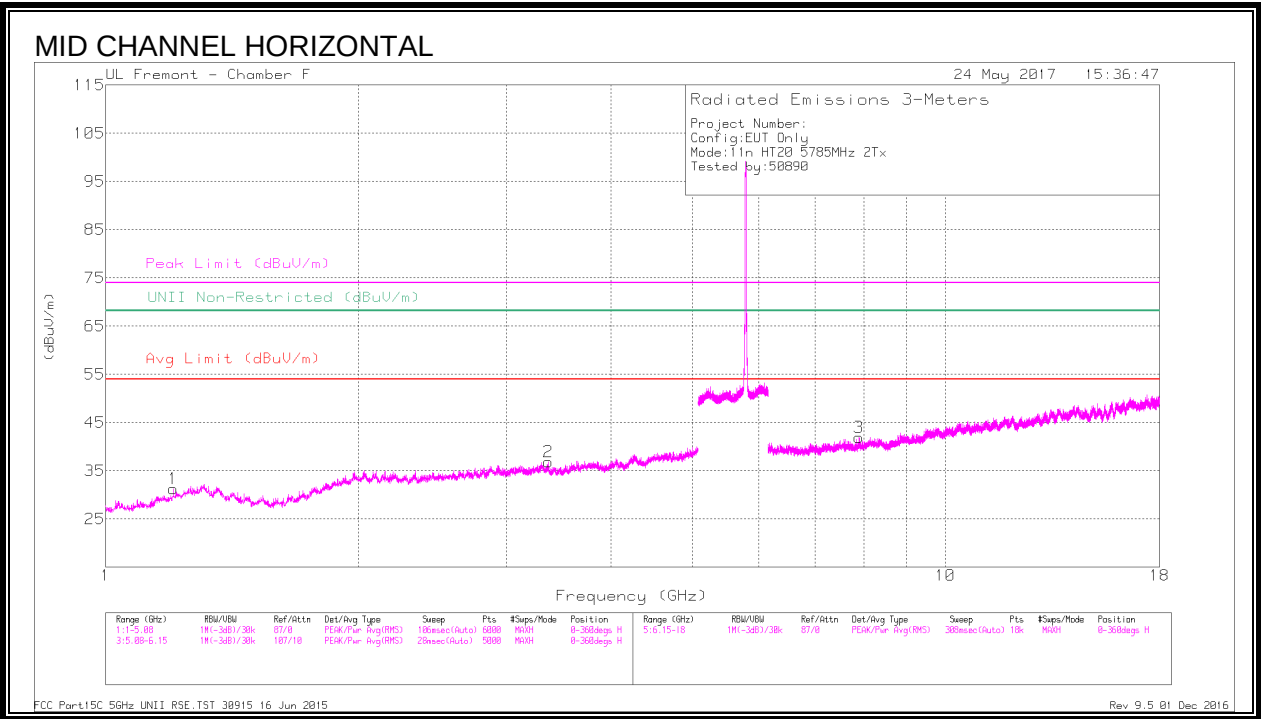
Data

Marker	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T119 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	Correct ed Readin g (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.072	39.41	PK-U	33.4	-28.4	44.41	-	-	74	-29.59	-	-	60	309	H
	* 4.07	27.64	ADR	33.4	-28.4	32.64	54	-21.36	-	-	-	-	60	309	H
2	* 3.741	39.22	PK-U	33.3	-29.2	43.32	-	-	74	-30.68	-	-	231	231	H
	* 3.741	27.62	ADR	33.3	-29.2	31.72	54	-22.28	-	-	-	-	231	231	H
3	* 1.122	40.46	PK-U	27.3	-32.3	35.46	-	-	74	-38.54	-	-	30	163	H
	* 1.122	28.69	ADR	27.3	-32.3	23.69	54	-30.31	-	-	-	-	30	163	H
4	* 8.345	36.77	PK-U	36	-24.4	48.37	-	-	74	-25.63	-	-	266	353	V
	* 8.342	25.23	ADR	36	-24.5	36.73	54	-17.27	-	-	-	-	266	353	V
5	* 8.174	35.85	PK-U	36.1	-23.9	48.05	-	-	74	-25.95	-	-	237	151	V
	* 8.174	24.45	ADR	36.1	-23.9	36.65	54	-17.35	-	-	-	-	237	151	V
6	* 16.067	36.37	PK-U	41.5	-21.9	55.97	-	-	74	-18.03	-	-	110	333	V
	* 16.066	24.7	ADR	41.5	-21.9	44.3	54	-9.7	-	-	-	-	110	333	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

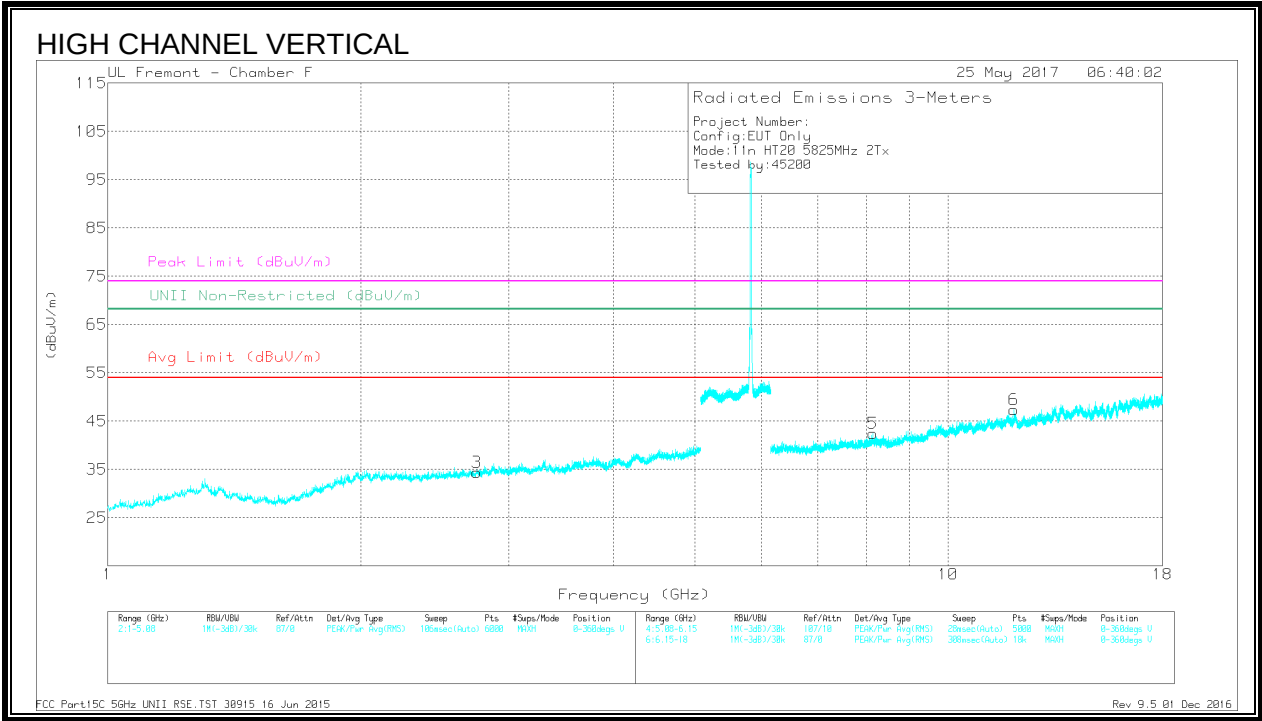
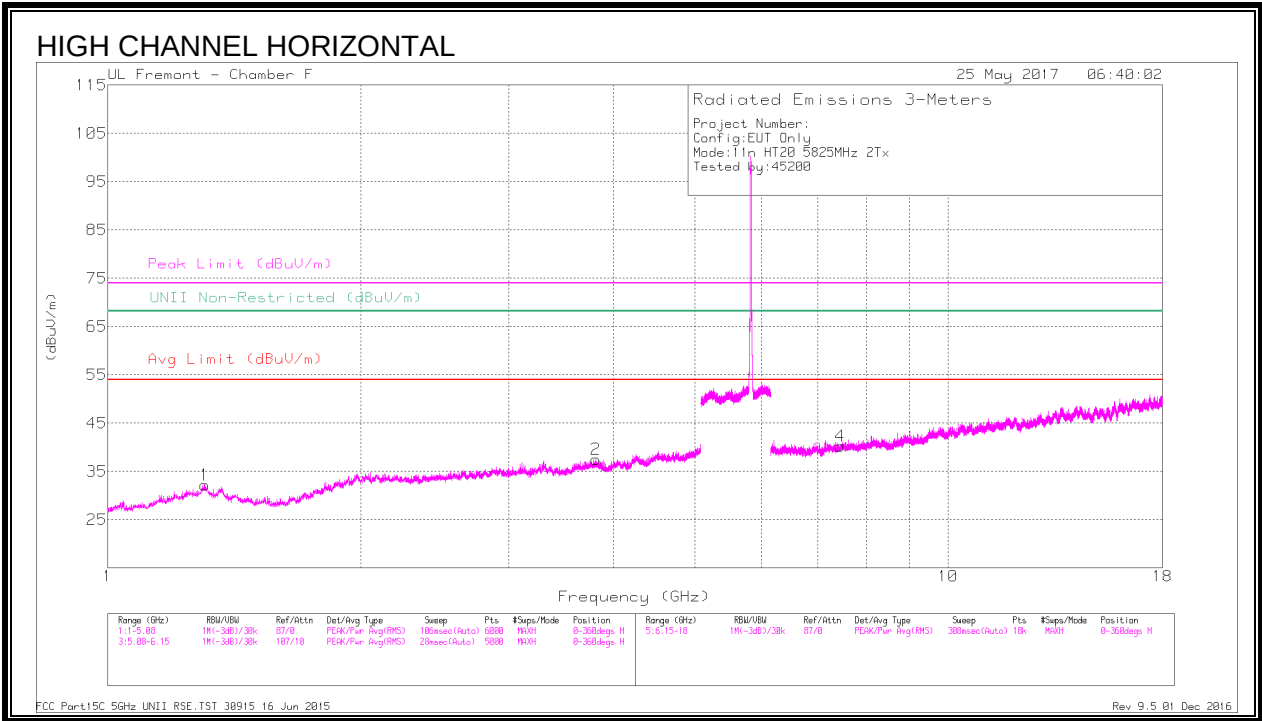


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	41.29	PK-U	28.9	-32.3	37.89	-	-	74	-36.11	-	-	340	176	H
	* 1.205	29.28	ADR	28.9	-32.3	25.88	54	-28.12	-	-	-	-	340	176	H
2	3.366	39.78	PK-U	33.2	-29.3	43.68	-	-	-	-	68.2	-24.52	44	356	H
6	* 2.224	40.7	PK-U	31.9	-30.5	42.1	-	-	74	-31.9	-	-	349	260	V
	* 2.223	27.96	ADR	31.9	-30.5	29.36	54	-24.64	-	-	-	-	349	260	V
3	7.89	36.54	PK-U	35.9	-24.4	48.04	-	-	-	-	68.2	-20.16	236	166	H
4	8.845	35.91	PK-U	36.5	-23.8	48.61	-	-	-	-	68.2	-19.59	150	163	V
5	13.72	37.21	PK-U	39.1	-21.8	54.51	-	-	-	-	68.2	-13.69	295	381	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.304	41.97	PK-U	30.1	-31.5	40.57	-	-	74	-33.43	223	136	H
	* 1.303	29.19	ADR	30.1	-31.5	27.79	54	-26.21	-	-	223	136	H
2	* 3.811	39.48	PK-U	33.3	-28.9	43.88	-	-	74	-30.12	142	399	H
	* 3.808	27.78	ADR	33.3	-29	32.08	54	-21.92	-	-	142	399	H
3	* 2.749	40.08	PK-U	32.6	-30.4	42.28	-	-	74	-31.72	72	332	V
	* 2.747	28.02	ADR	32.6	-30.4	30.22	54	-23.78	-	-	72	332	V
4	* 7.444	38.15	PK-U	36	-25.7	48.45	-	-	74	-25.55	102	288	H
	* 7.446	25.78	ADR	36	-25.7	36.08	54	-17.92	-	-	102	288	H
5	* 8.139	36.51	PK-U	36.1	-23.6	49.01	-	-	74	-24.99	184	397	V
	* 8.141	24.6	ADR	36.1	-23.7	37	54	-17	-	-	184	397	V
6	* 11.981	36.32	PK-U	39.2	-22.3	53.22	-	-	74	-20.78	77	137	V
	* 11.983	24.16	ADR	39.2	-22.3	41.06	54	-12.94	-	-	77	137	V

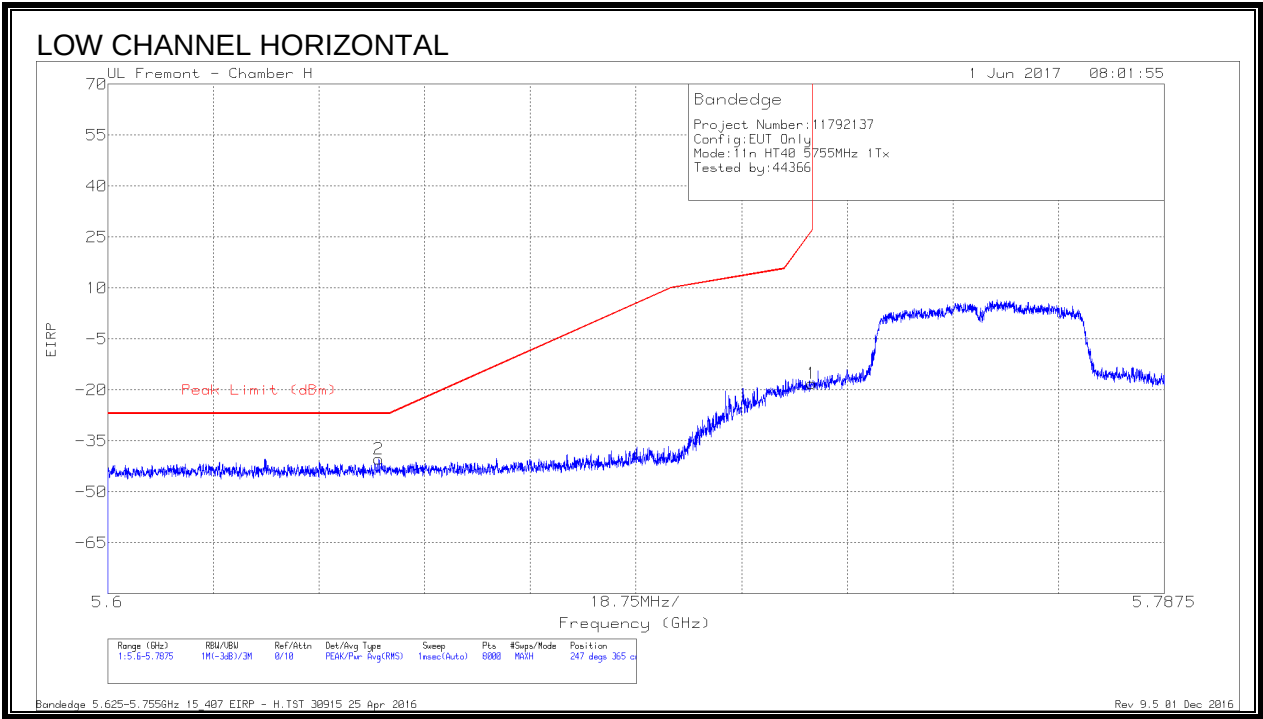
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

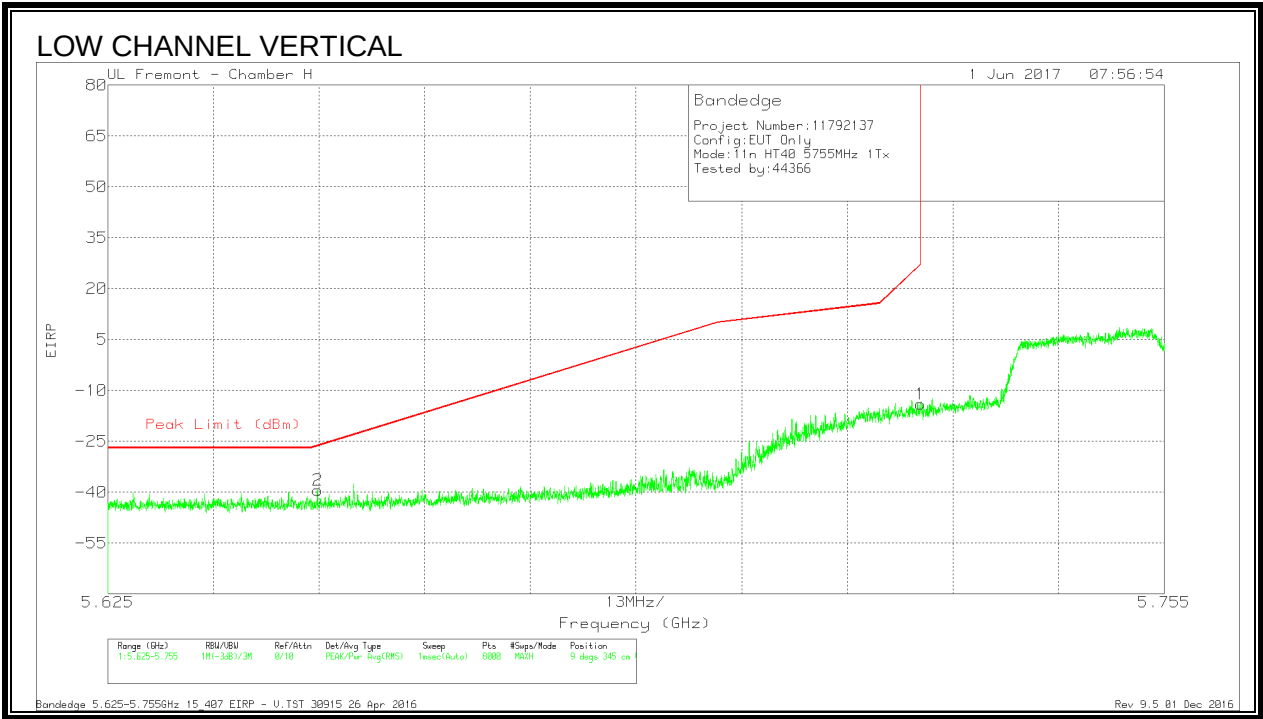
9.1.33. 11n HT40 UAT 2 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.648	-63.43	Pk	34.9	-23.6	11.8	-40.33	-27	-13.33	247	365	H
1	5.725	-41.58	Pk	35.1	-23.5	11.8	-18.18	26.96	-45.14	247	365	H

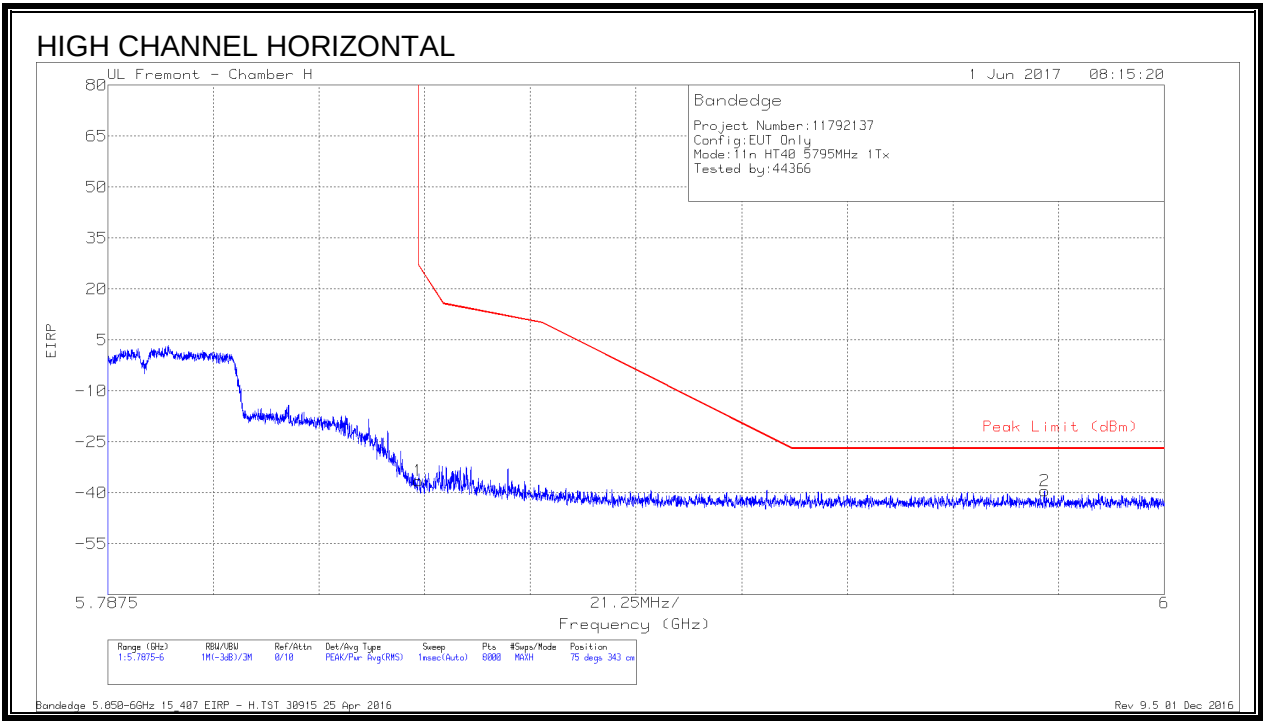
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.651	-62.47	Pk	34.9	-23.6	11.8	-39.37	-26.39	-12.98	9	345	V
1	5.725	-37.5	Pk	35.1	-23.5	11.8	-14.1	27	-41.1	9	345	V

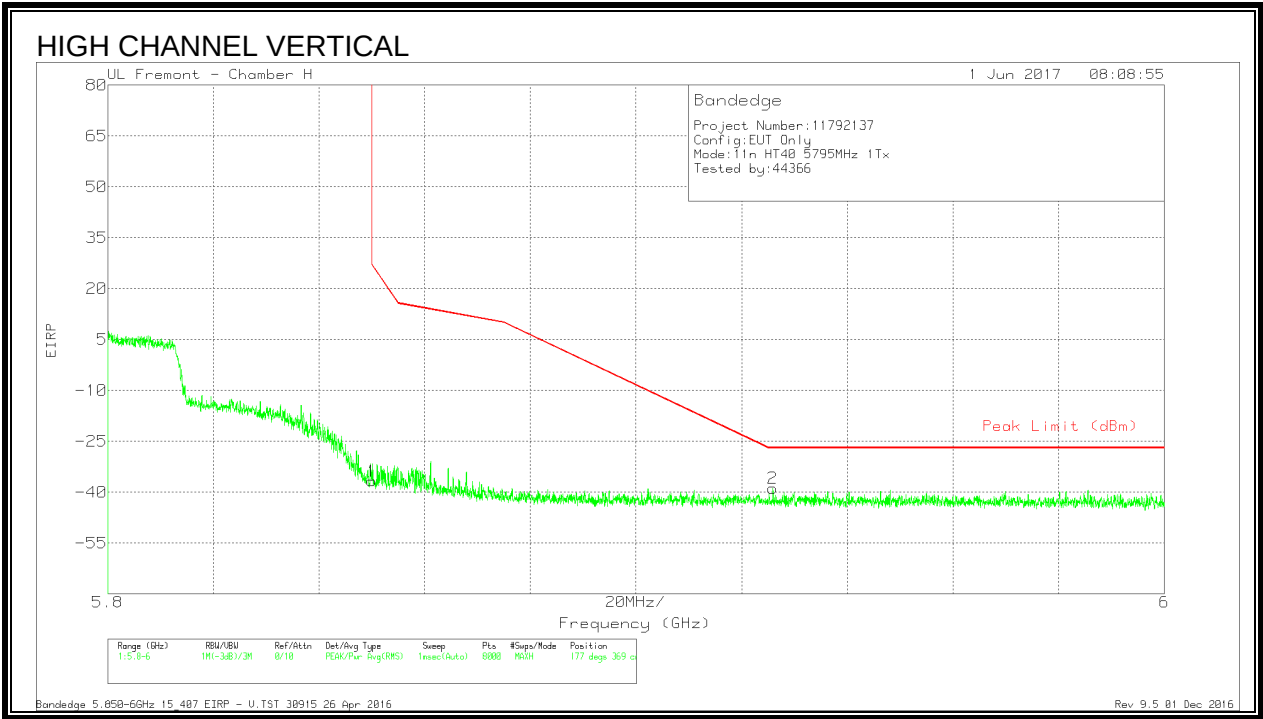
Pk - Peak detector
Rev 9.5 01 Dec 2016

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.42	Pk	35.4	-23.3	11.8	-36.52	26.98	-63.5	75	343	H
2	5.976	-63.74	Pk	35.5	-23	11.8	-39.44	-27	-12.44	75	343	H

Pk - Peak detector

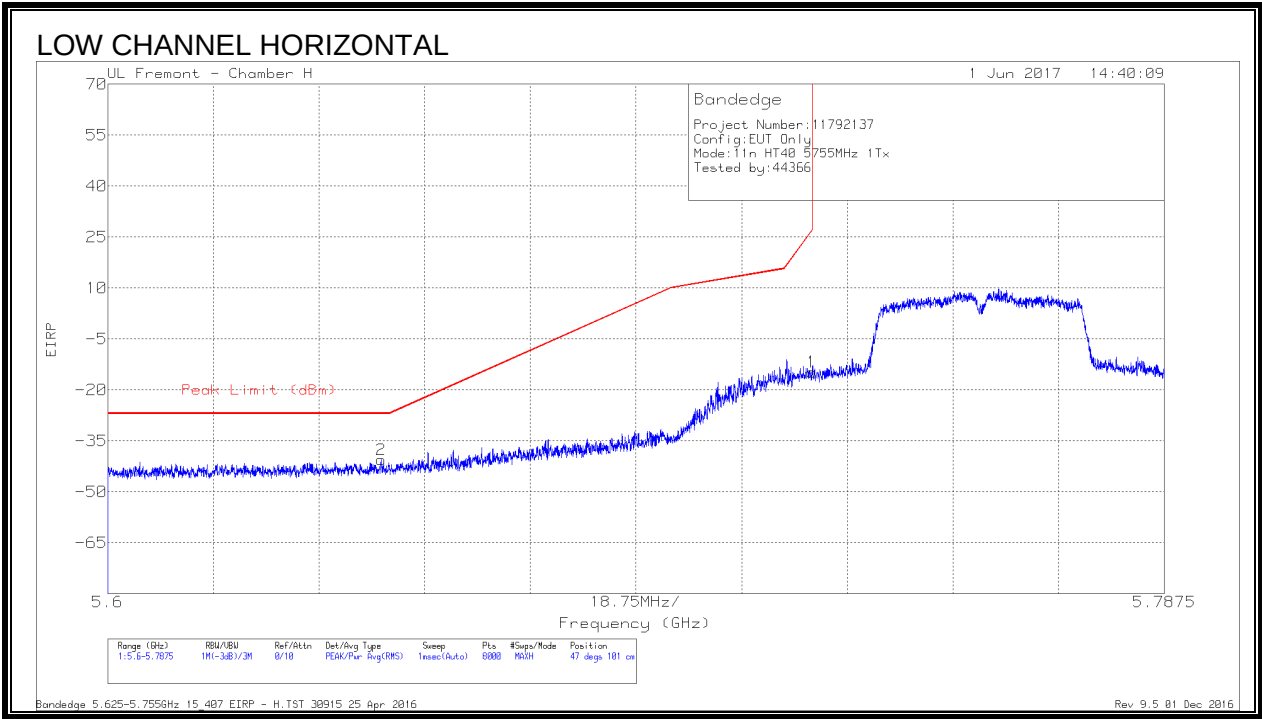


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.62	Pk	35.4	-23.3	11.8	-36.72	26.99	-63.71	177	369	V
2	5.926	-63.04	Pk	35.5	-23.1	11.8	-38.84	-27	-11.84	177	369	V

Pk - Peak detector

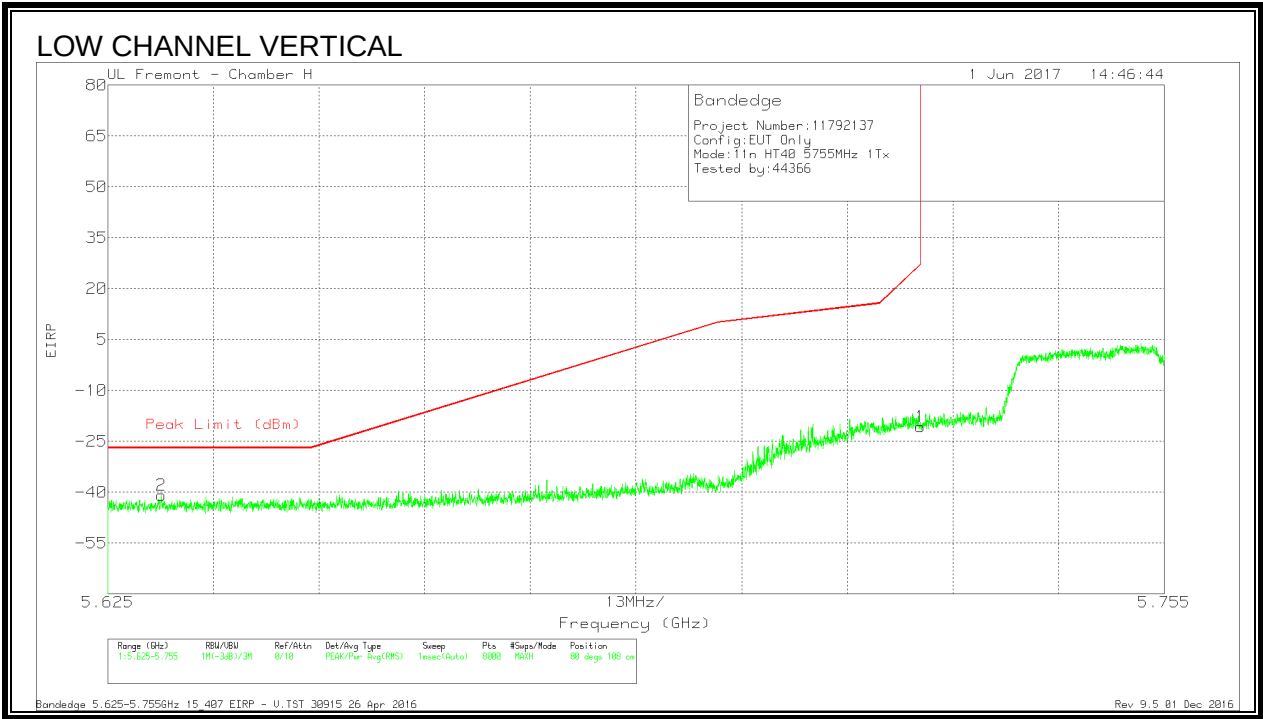
9.1.34. 11n HT40 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-63.7	Pk	34.9	-23.6	11.8	-40.6	-27	-13.6	47	101	H
1	5.725	-38.23	Pk	35.1	-23.5	11.8	-14.83	26.96	-41.79	47	101	H

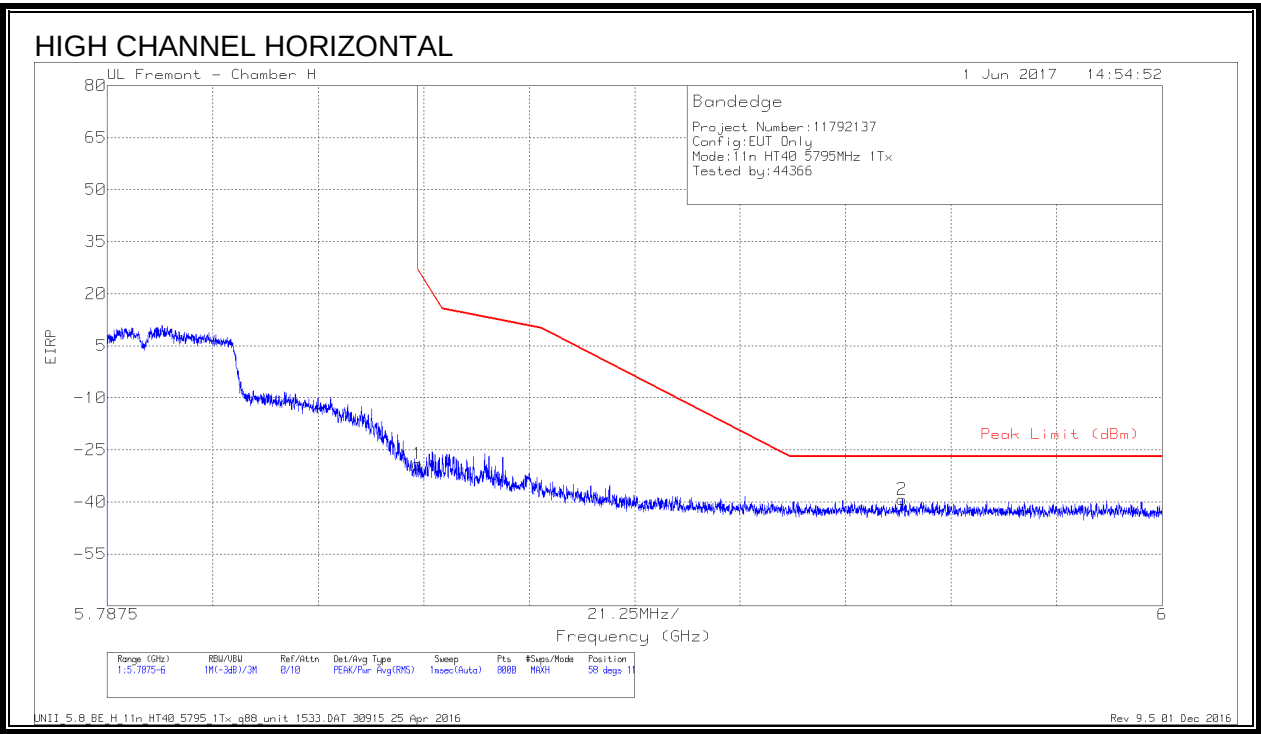
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb I/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.632	-64.13	Pk	34.9	-23.5	11.8	-40.93	-27	-13.93	80	108	V
1	5.725	-44.16	Pk	35.1	-23.5	11.8	-20.76	27	-47.76	80	108	V

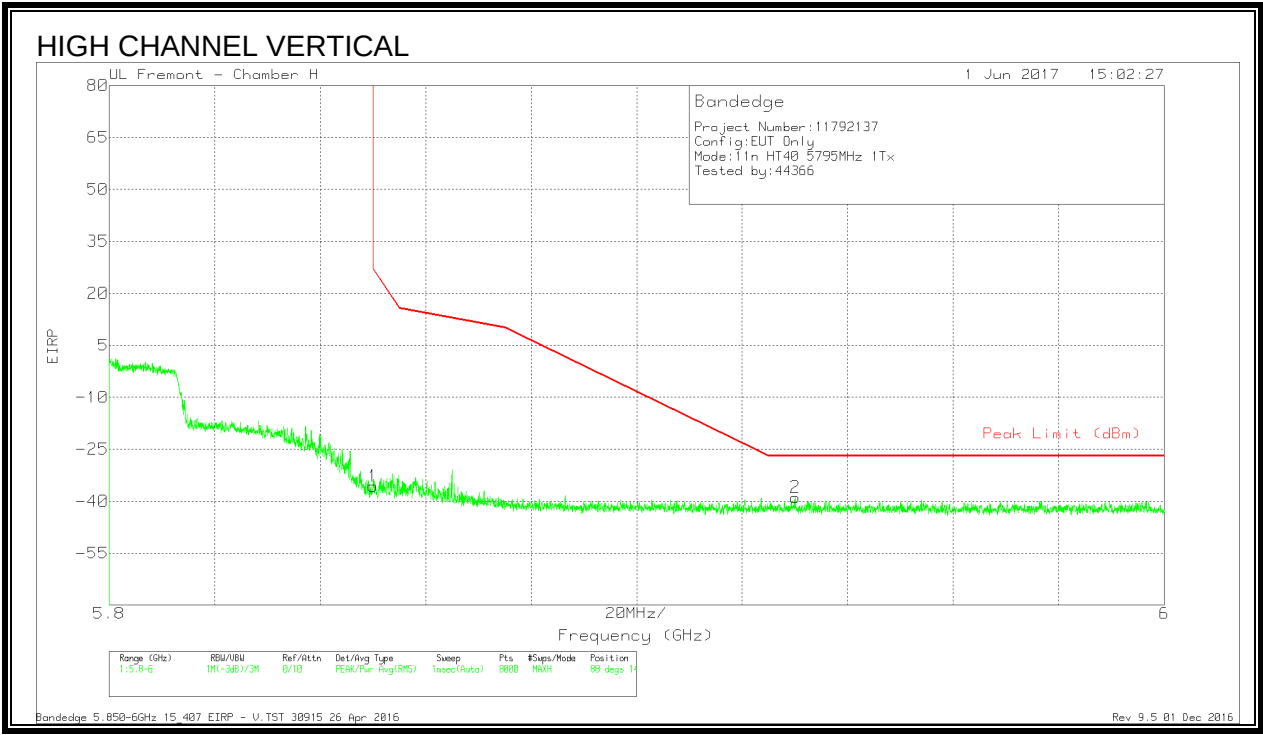
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.95	Pk	35.4	-23.3	11.8	-29.05	26.98	-56.03	58	118	H
2	5.948	-63.46	Pk	35.5	-23.1	11.8	-39.26	-27	-12.26	58	118	H

Pk - Peak detector

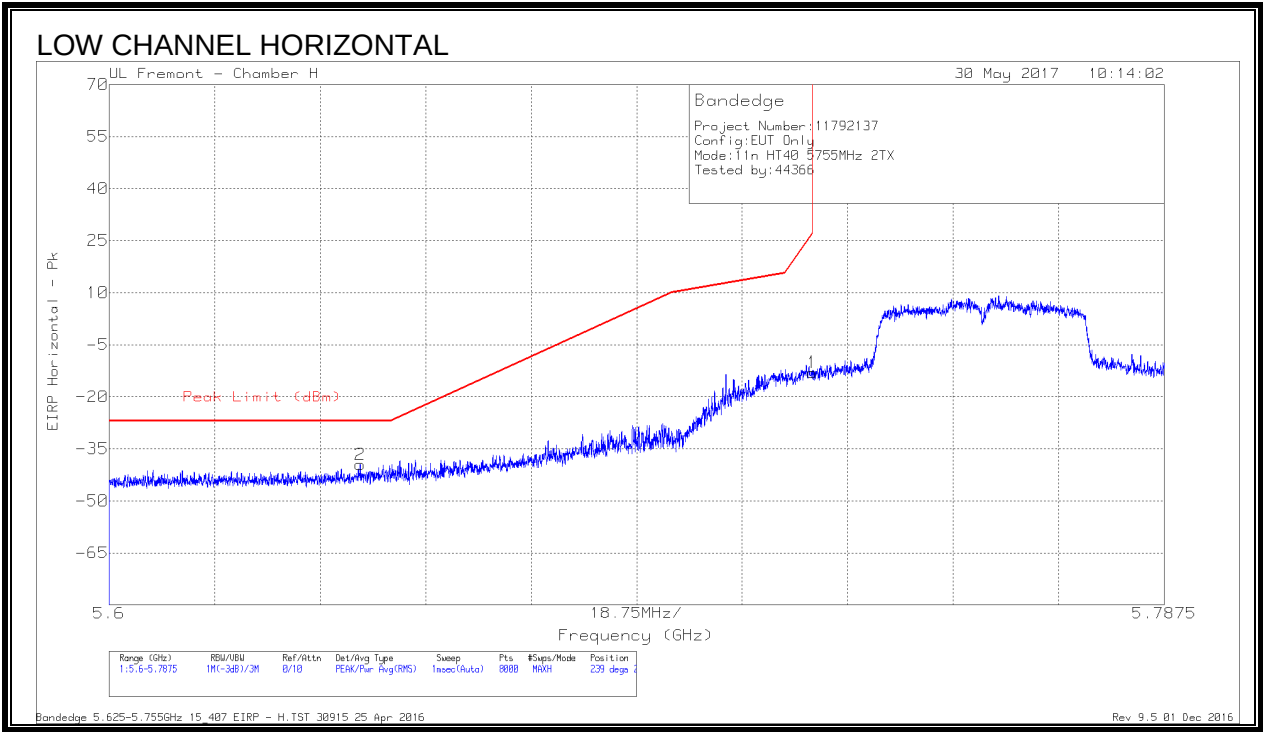


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.57	Pk	35.4	-23.3	11.8	-35.67	26.99	-62.66	88	144	V
2	5.93	-63.1	Pk	35.5	-23.1	11.8	-38.9	-27	-11.9	88	144	V

Pk - Peak detector

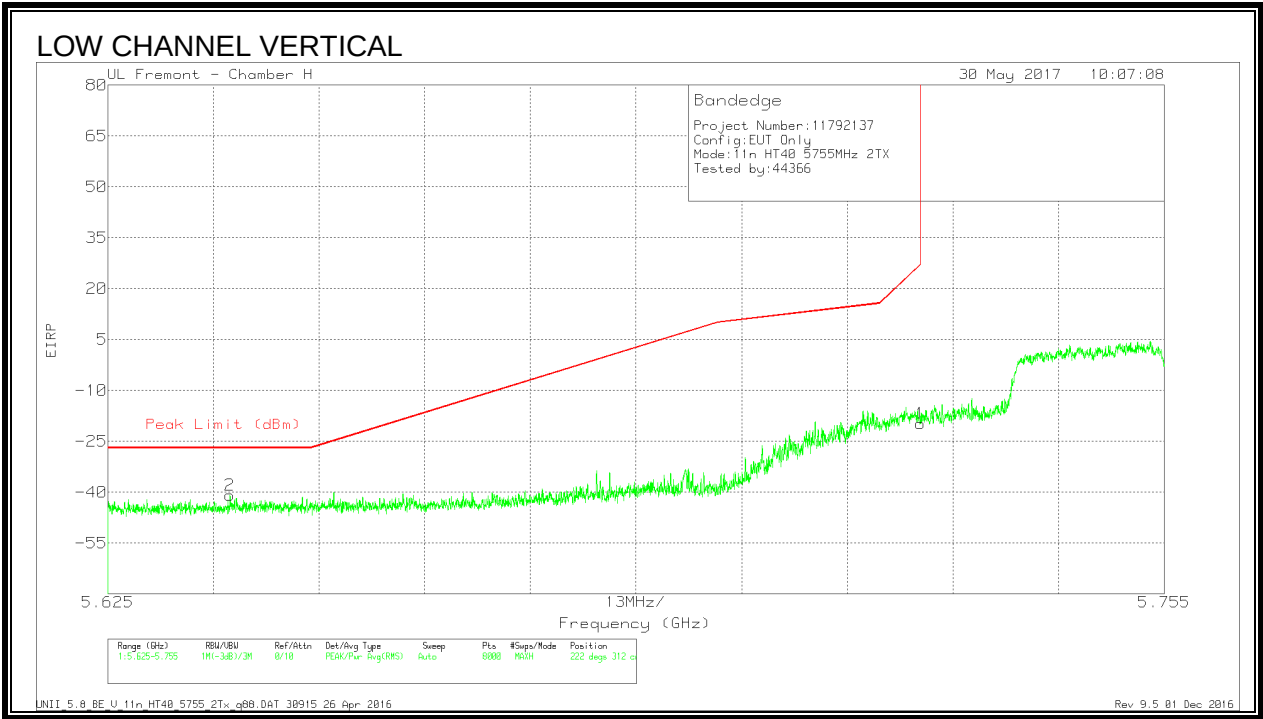
9.1.35. 11n HT40 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.645	-62.13	Pk	34.9	-24.1	11.8	-39.53	-27	-12.53	239	224	H
1	5.725	-35.84	Pk	35.1	-24.1	11.8	-13.04	26.96	-40	239	224	H

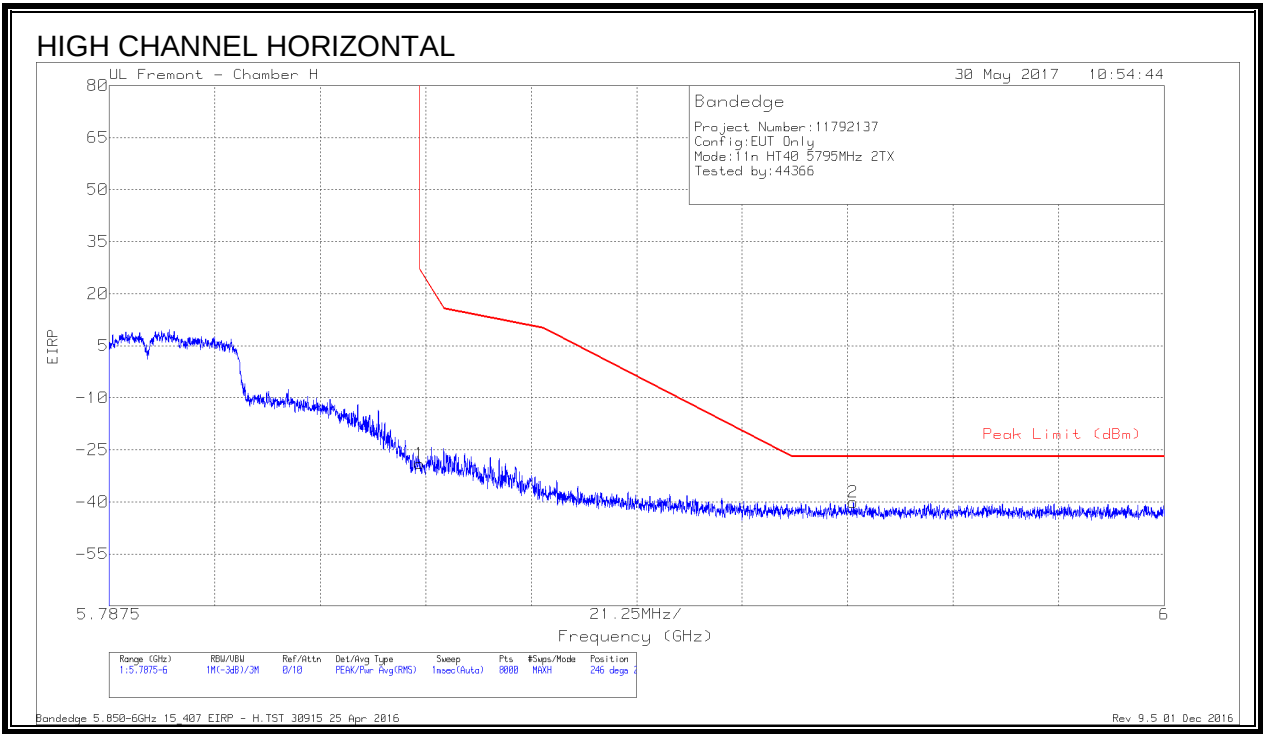
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64	-63.56	Pk	34.9	-24.1	11.8	-40.96	-27	-13.96	222	312	V
1	5.725	-42.54	Pk	35.1	-24.1	11.8	-19.74	27	-46.74	222	312	V

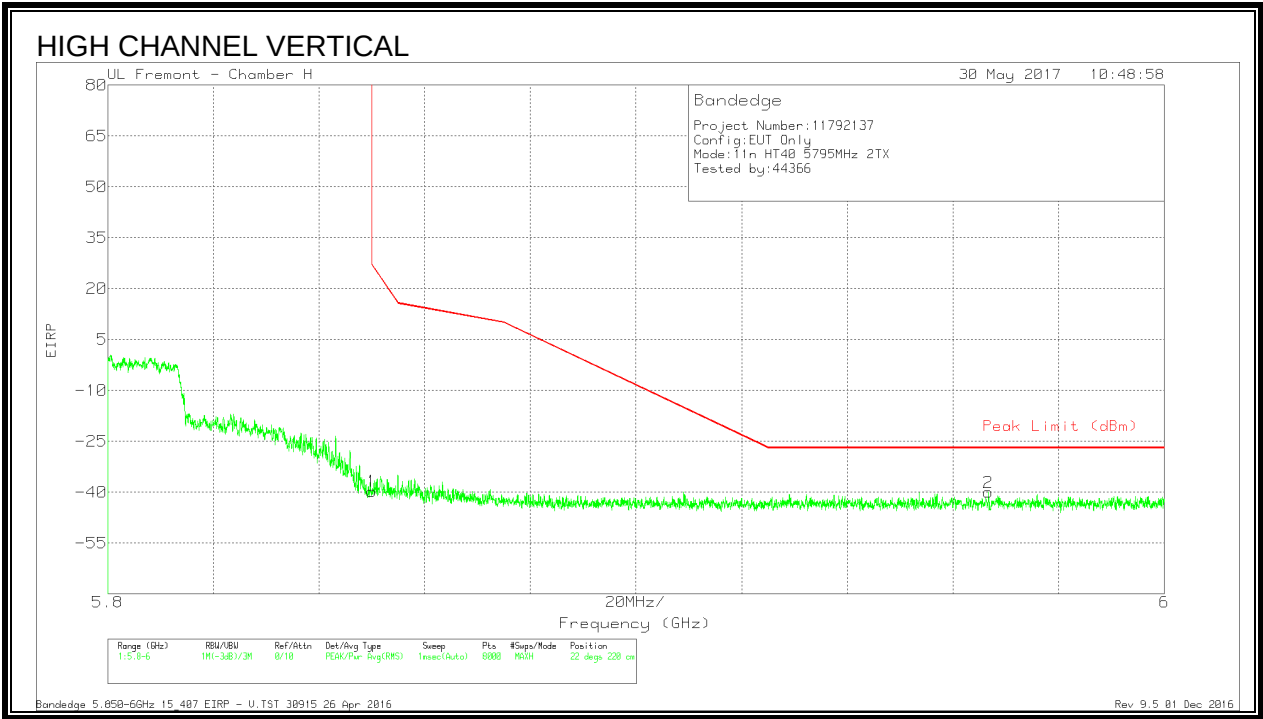
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL) FCC



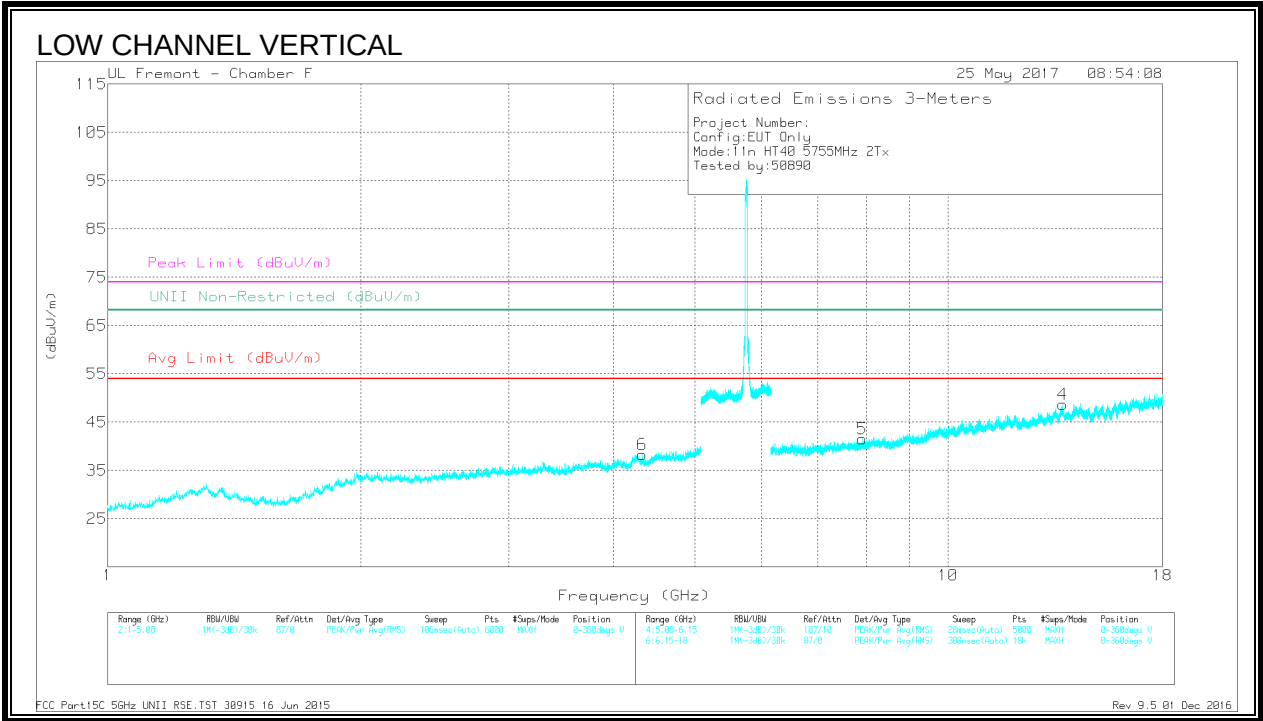
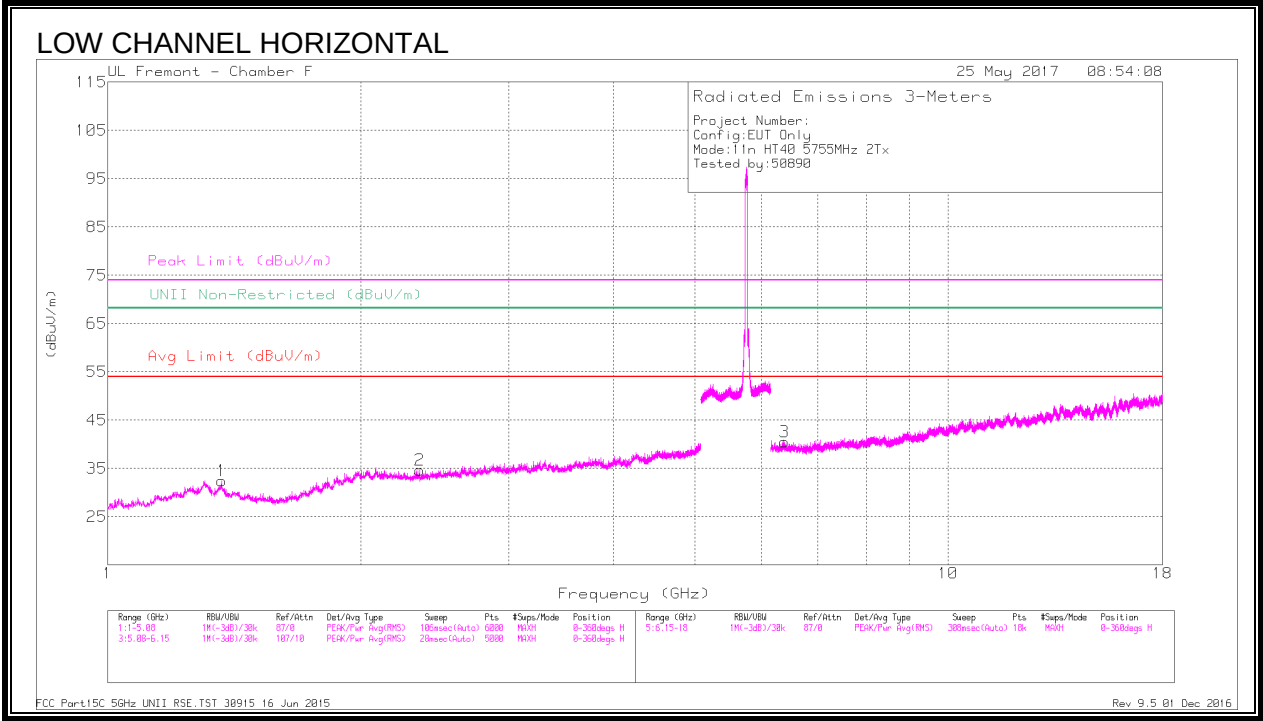
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.27	Pk	35.4	-23.9	11.8	-28.97	26.98	-55.95	246	237	H
2	5.937	-63.72	Pk	35.5	-23.7	11.8	-40.12	-27	-13.12	246	237	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-63.08	Pk	35.4	-23.9	11.8	-39.78	26.99	-66.77	22	220	V
2	5.967	-63.75	Pk	35.5	-23.6	11.8	-40.05	-27	-13.05	22	220	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



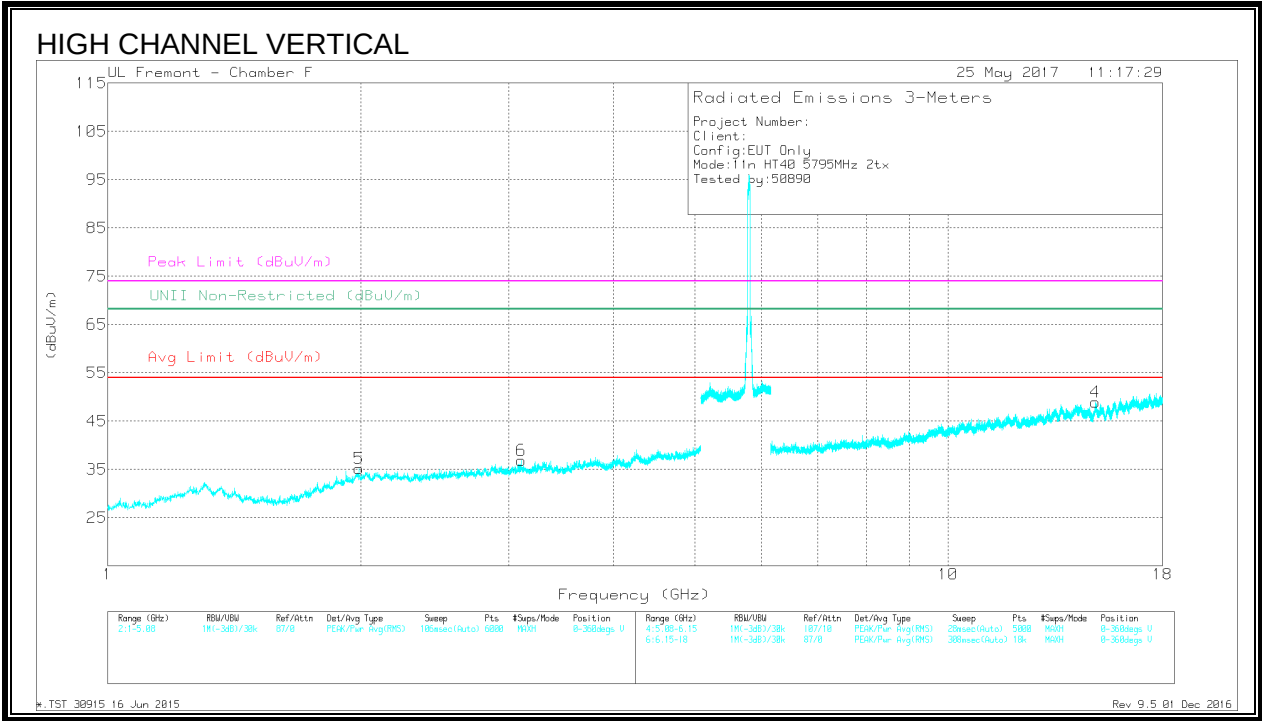
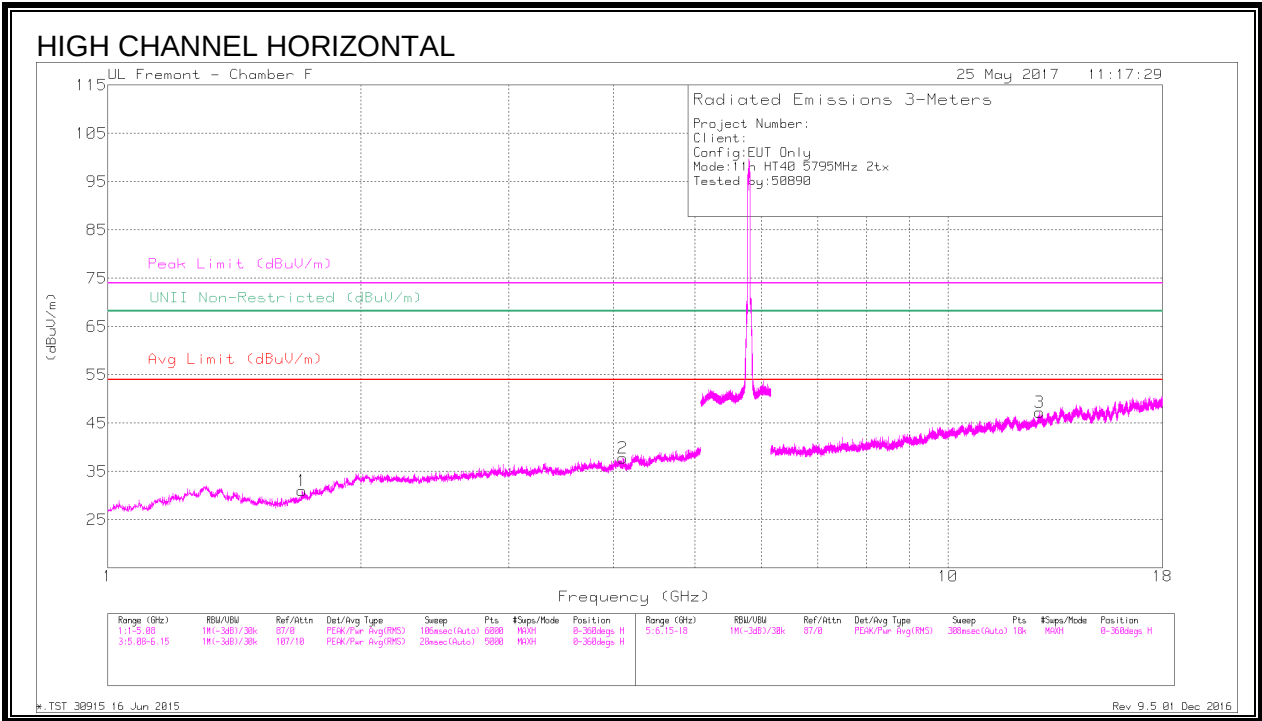
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.366	41.39	PK-U	29.4	-31.4	0	39.39	-	-	74	-34.61	-	-	149	287	H
	* 1.365	29.08	ADR	29.4	-31.4	.1	27.18	54	-26.82	-	-	-	-	149	287	H
2	* 2.35	39.85	PK-U	31.7	-30.5	0	41.05	-	-	74	-32.95	-	-	350	203	H
	* 2.35	27.65	ADR	31.7	-30.5	.1	28.95	54	-25.05	-	-	-	-	350	203	H
6	* 4.328	39.51	PK-U	33.7	-28.2	0	45.01	-	-	74	-28.99	-	-	199	310	V
	* 4.327	27.41	ADR	33.7	-28.2	.1	33.01	54	-20.99	-	-	-	-	199	310	V
3	6.386	37.3	PK-U	35.7	-26.3	0	46.7	-	-	-	-	68.2	-21.5	13	230	H
4	13.706	37.43	PK-U	39.2	-21.6	0	55.03	-	-	-	-	68.2	-13.17	24	246	V
5	7.91	36.69	PK-U	35.9	-24.3	0	48.29	-	-	-	-	68.2	-19.91	80	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Cor (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.703	40.72	PK-U	28.4	-31.5	0	37.62	-	-	74	-36.38	-	-	79	197	H
	* 1.702	28.73	ADR	28.4	-31.5	.19	25.82	54	-28.18	-	-	-	-	79	197	H
2	* 4.105	39.45	PK-U	33.4	-28.5	0	44.35	-	-	74	-29.65	-	-	83	378	H
	* 4.106	27.55	ADR	33.4	-28.5	.19	32.64	54	-21.36	-	-	-	-	83	378	H
5	1.989	40.46	PK-U	32.2	-30.8	0	41.86	-	-	-	-	68.2	-26.34	101	320	V
6	3.107	39.15	PK-U	33	-29.2	0	42.95	-	-	-	-	68.2	-25.25	305	184	V
3	12.847	36.62	PK-U	39.1	-21.9	0	53.82	-	-	-	-	68.2	-14.38	206	256	H
4	14.987	37.31	PK-U	41.1	-22.8	0	55.61	-	-	-	-	68.2	-12.59	271	319	V

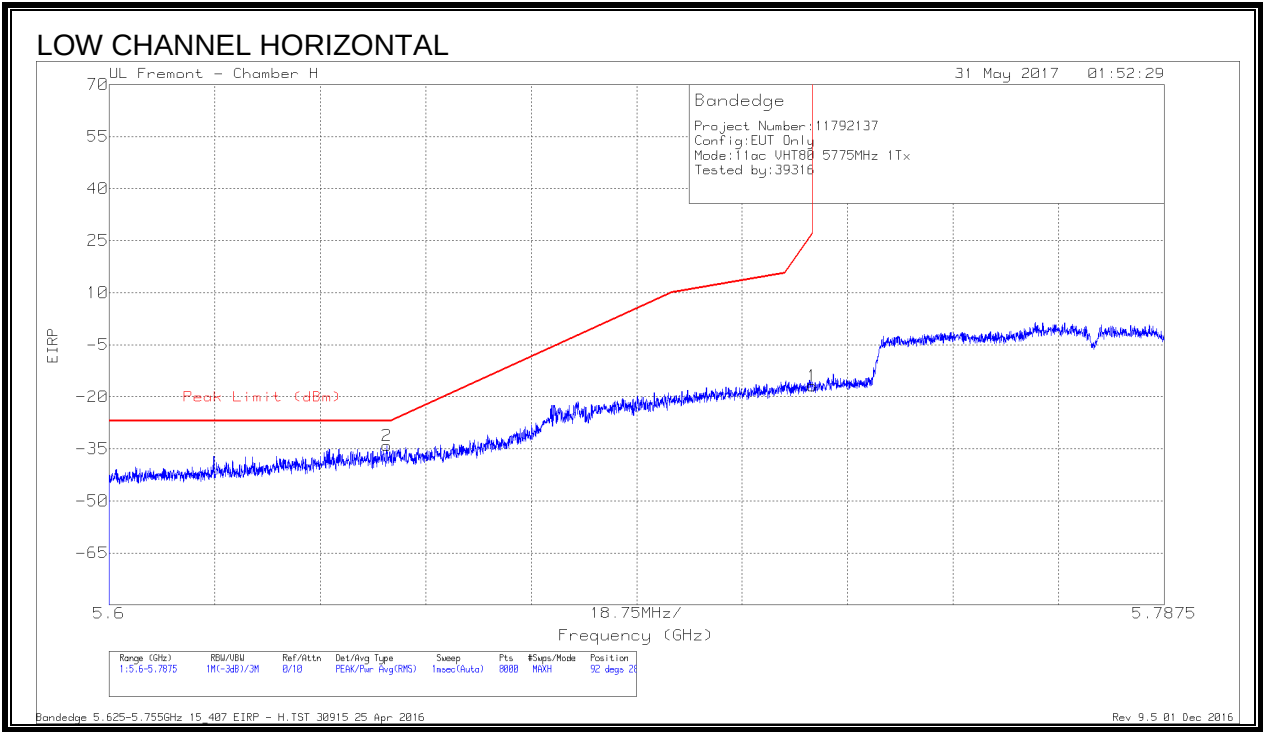
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

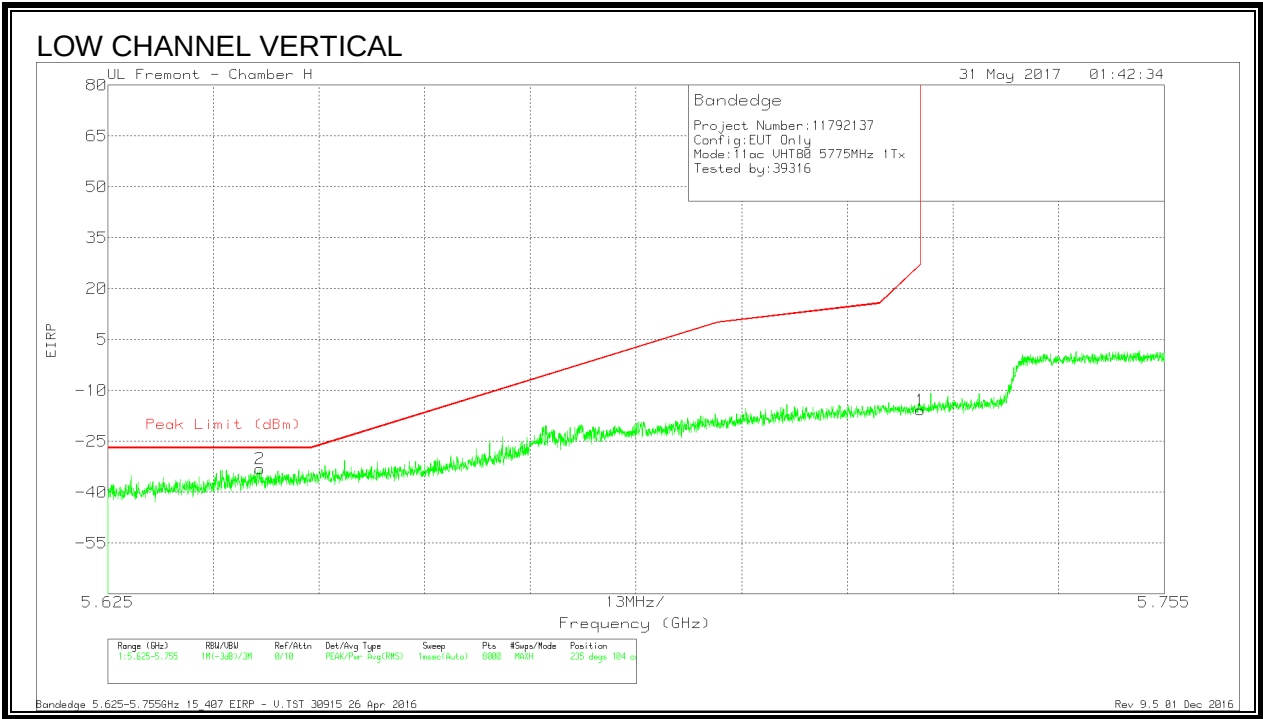
9.1.36. 11ac HT80 UAT 2 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb I/Fitr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-56.59	Pk	34.9	-24.2	11.8	-34.09	-27	-7.09	92	284	H
1	5.725	-39.66	Pk	35.1	-24.1	11.8	-16.86	26.96	-43.82	92	284	H

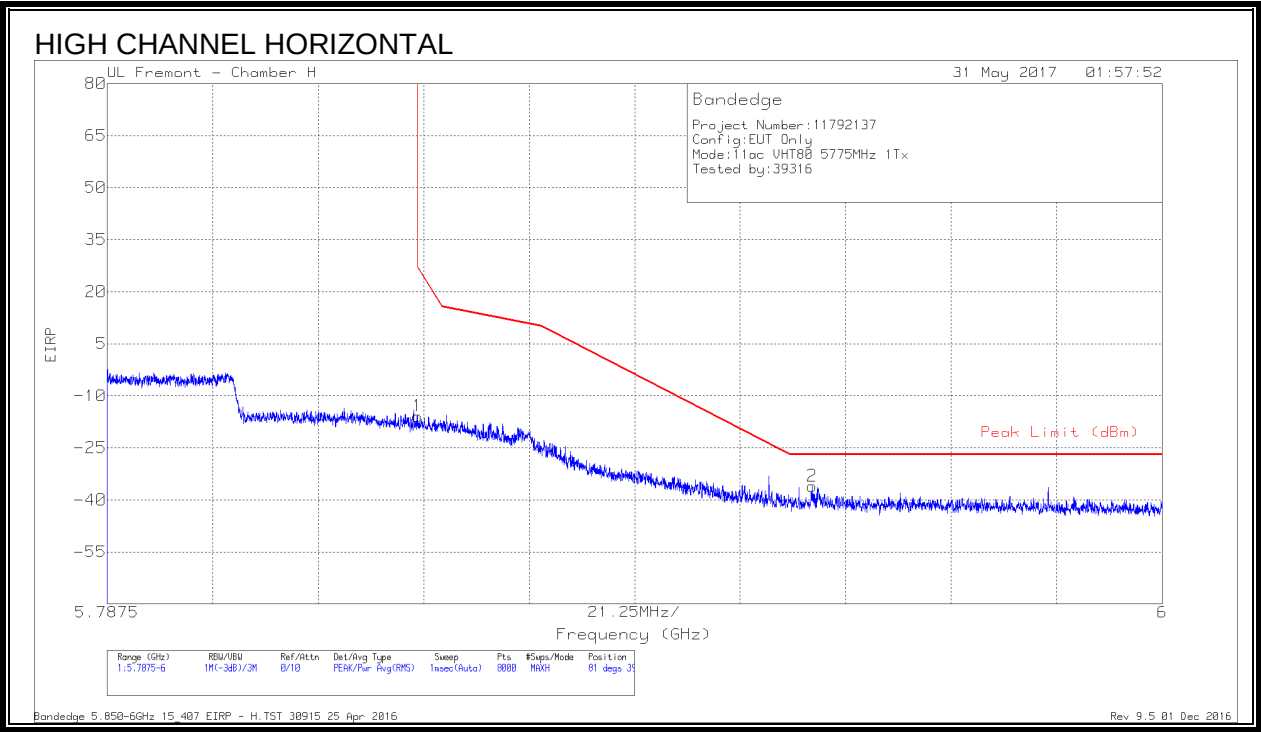
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-55.63	Pk	34.9	-24.1	11.8	-33.03	-27	-6.03	235	104	V
1	5.725	-38.6	Pk	35.1	-24.1	11.8	-15.8	27	-42.8	235	104	V

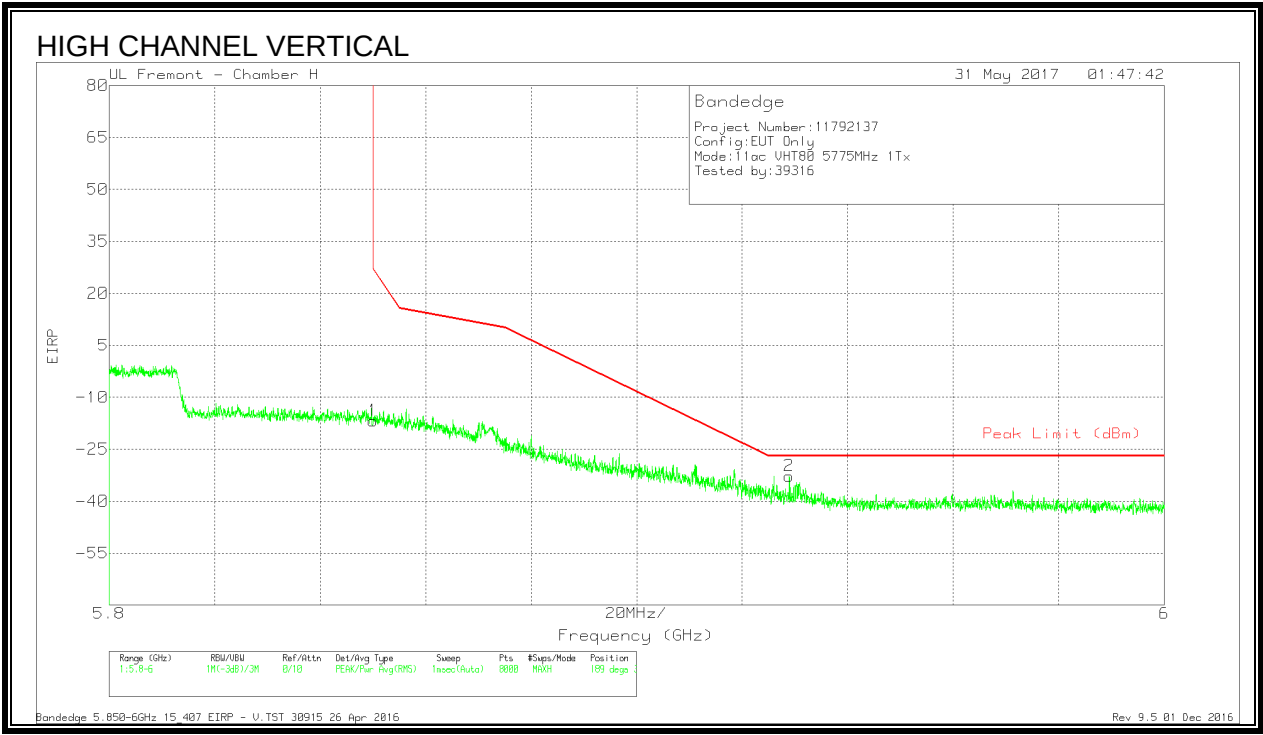
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-39.14	Pk	35.4	-23.9	11.8	-15.84	26.98	-42.82	81	398	H
2	5.93	-59.62	Pk	35.5	-23.7	11.8	-36.02	-27	-9.02	81	398	H

Pk - Peak detector

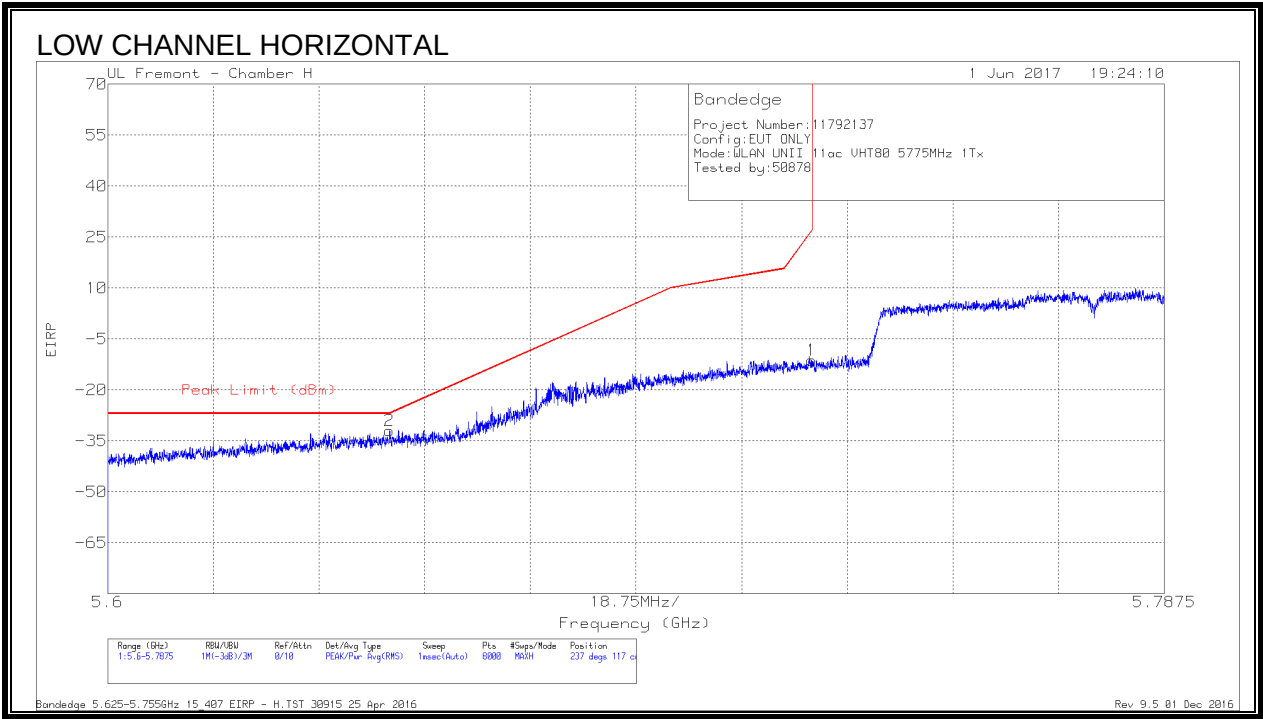


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-40.05	Pk	35.4	-23.9	11.8	-16.75	26.99	-43.74	189	382	V
2	5.929	-56.3	Pk	35.5	-23.7	11.8	-32.7	-27	-5.7	189	382	V

Pk - Peak detector

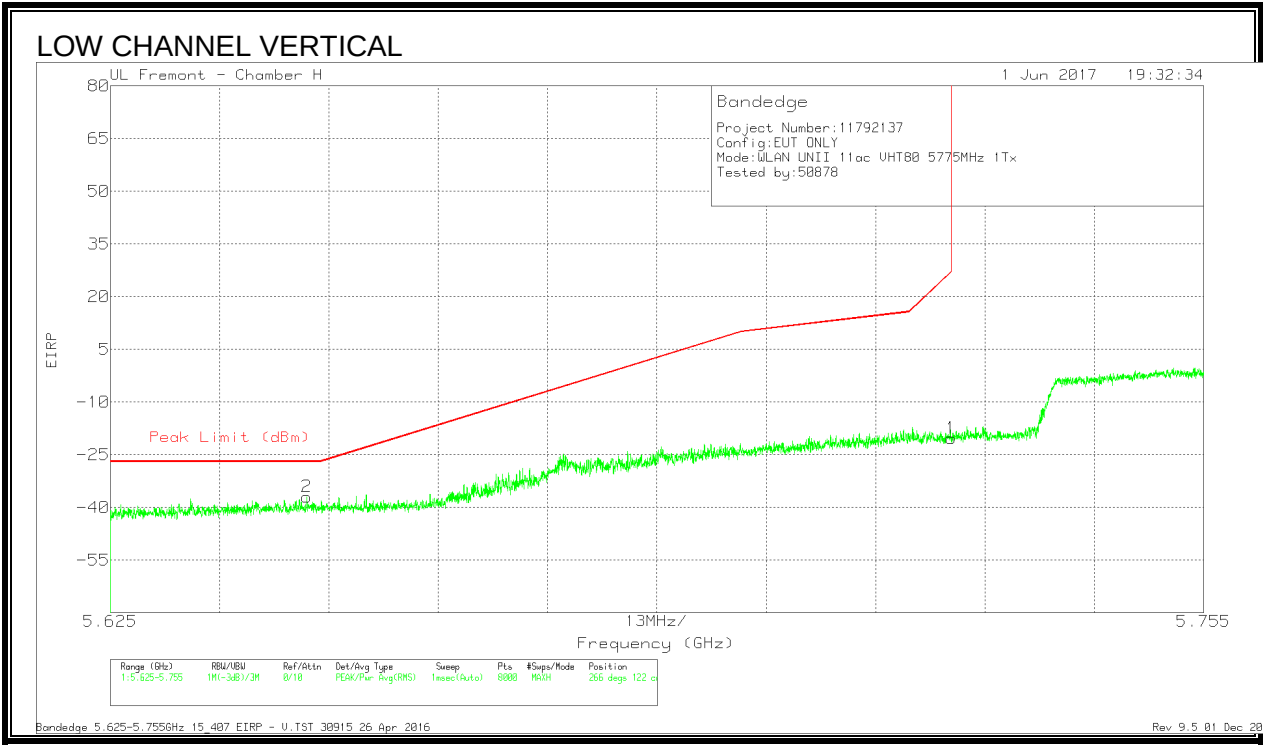
9.1.37. 11ac HT80 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-55.09	Pk	34.9	-23.6	11.8	-31.99	-26.97	-5.02	237	117	H
1	5.725	-34.74	Pk	35.1	-23.5	11.8	-11.34	26.96	-38.3	237	117	H

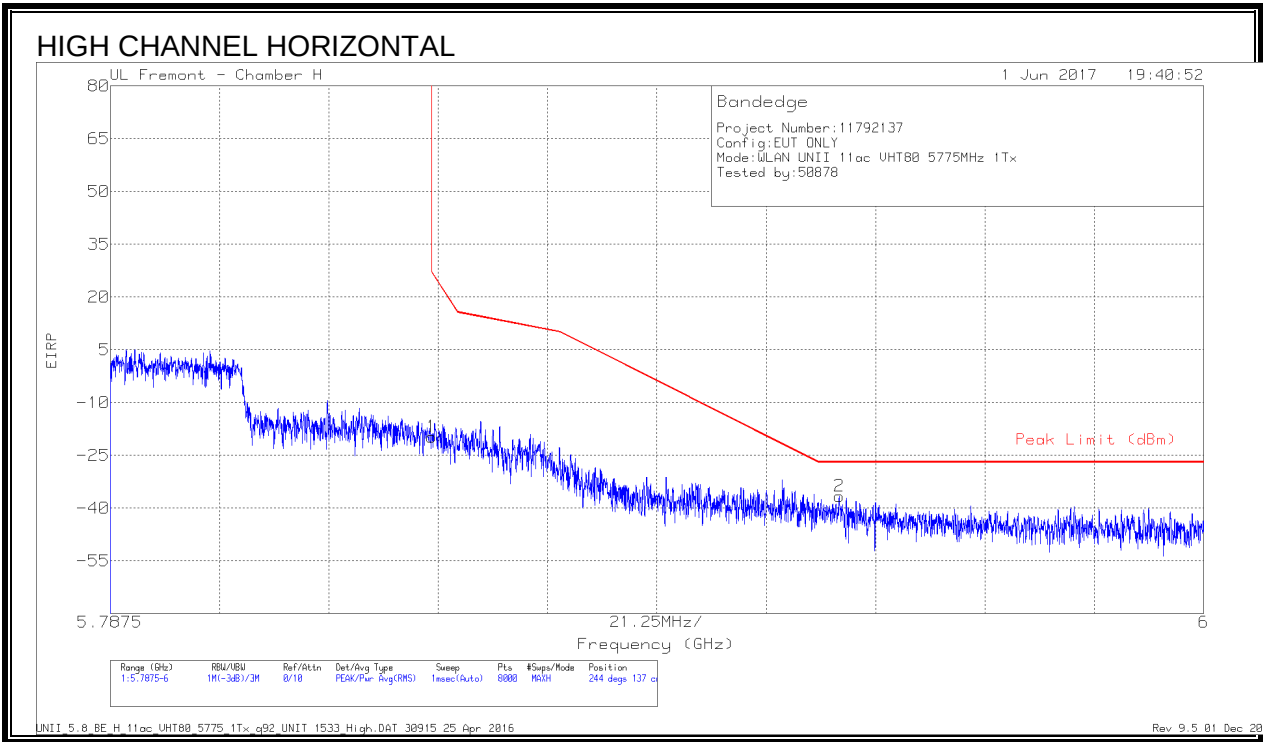
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Fitr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-43.75	Pk	35.1	-23.5	11.8	-20.35	27	-47.35	266	122	V
2	5.648	-60.11	Pk	34.9	-23.6	11.8	-37.01	-27	-10.01	266	122	V

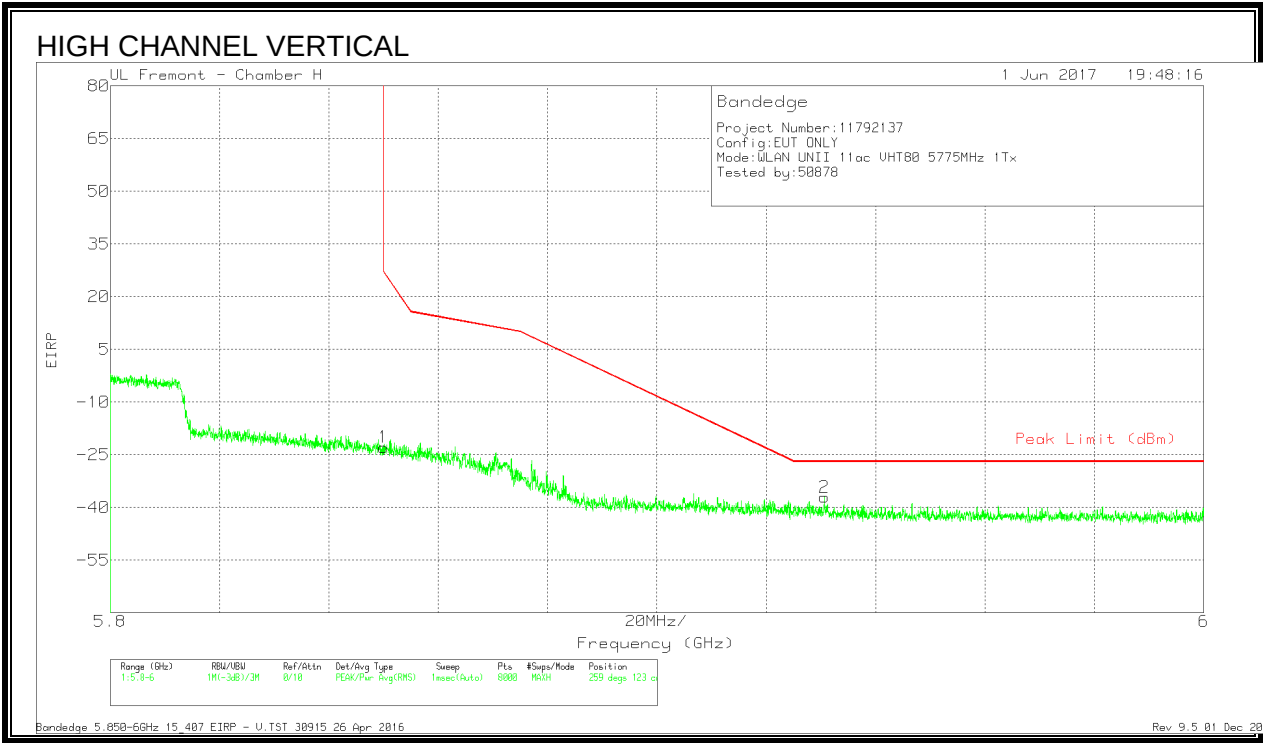
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.6	Pk	35.4	-23.3	11.8	-19.7	26.98	-46.68	244	137	H
2	5.929	-60.88	Pk	35.5	-23.1	11.8	-36.68	-27	-9.68	244	137	H

Pk - Peak detector

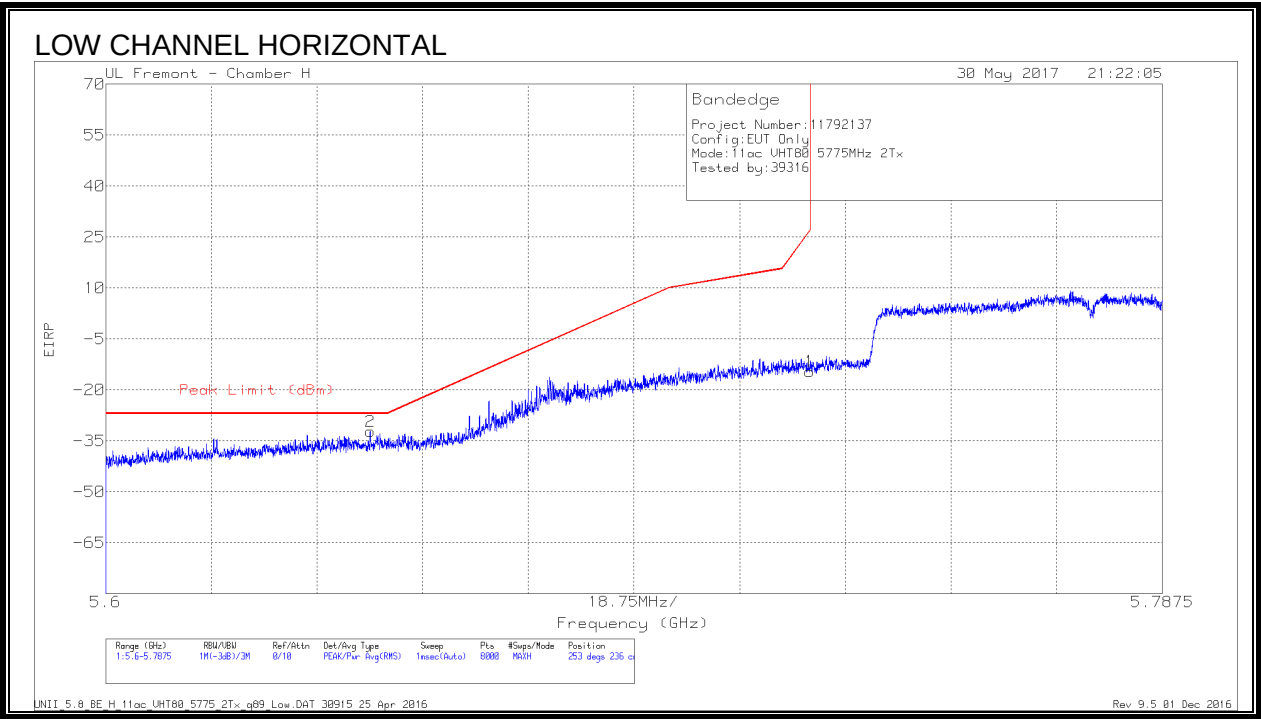


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-46.84	Pk	35.4	-23.3	11.8	-22.94	26.99	-49.93	259	123	V
2	5.931	-61.29	Pk	35.5	-23.1	11.8	-37.09	-27	-10.09	259	123	V

Pk - Peak detector

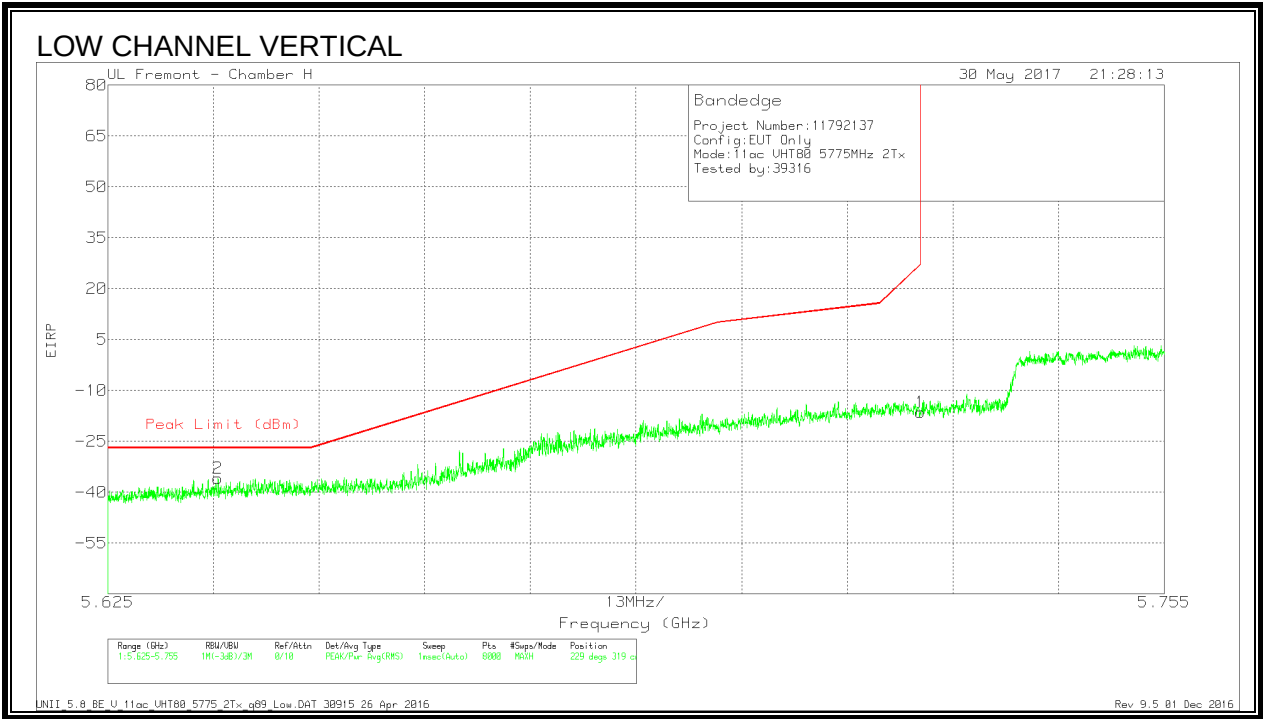
9.1.38. 11ac HT80 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-54.77	Pk	34.9	-24.2	11.8	-32.27	-27	-5.27	253	236	H
1	5.725	-37.42	Pk	35.1	-24.1	11.8	-14.62	26.96	-41.58	253	236	H

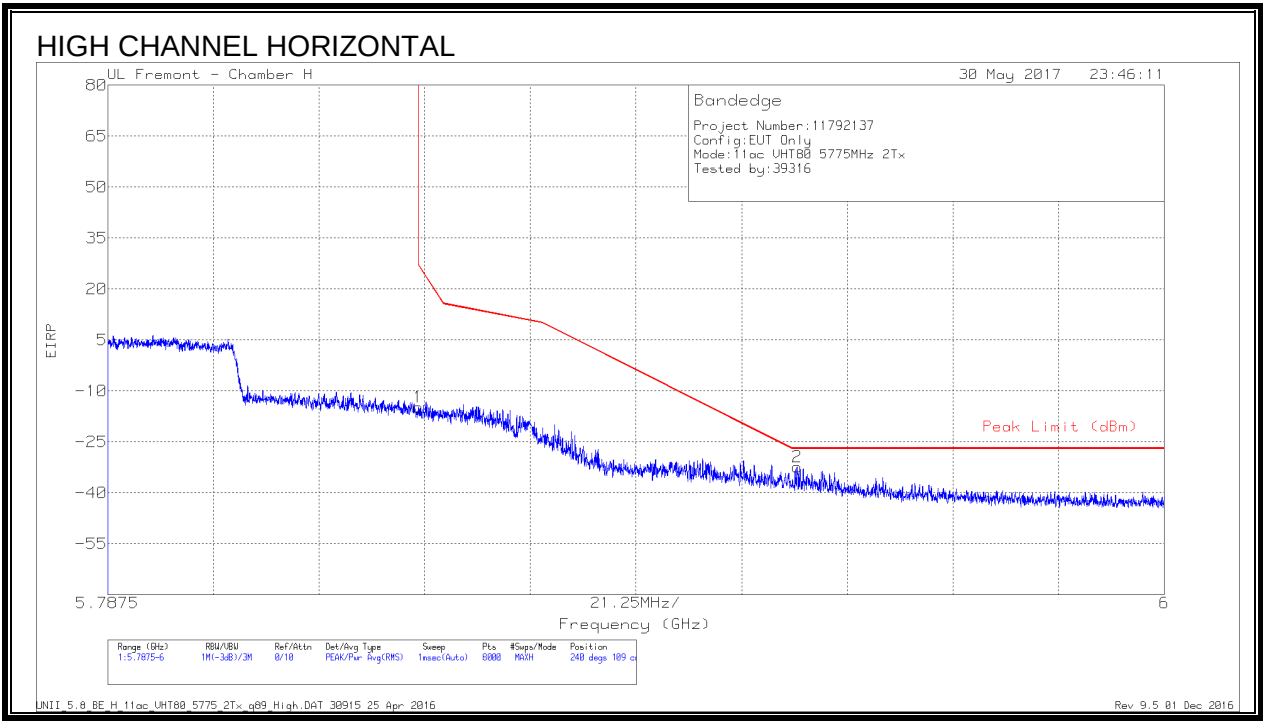
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.639	-58.39	Pk	34.9	-24.2	11.8	-35.89	-27	-8.89	229	319	V
1	5.725	-39.28	Pk	35.1	-24.1	11.8	-16.48	27	-43.48	229	319	V

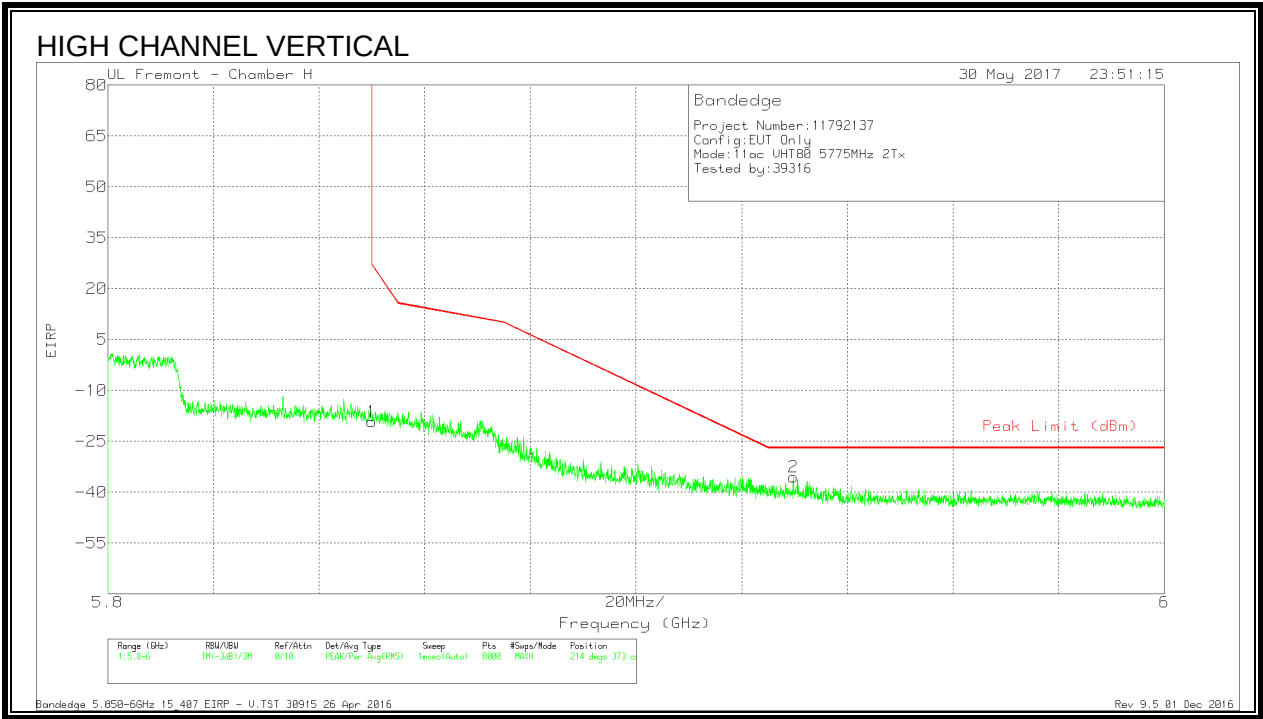
Pk - Peak detector

RESTRICTED BANDEDGE (HIGH CHANNEL) FCC



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-38.16	Pk	35.4	-23.9	11.8	-14.86	26.98	-41.84	240	109	H
2	5.926	-56.05	Pk	35.5	-23.7	11.8	-32.45	-27	-5.45	240	109	H

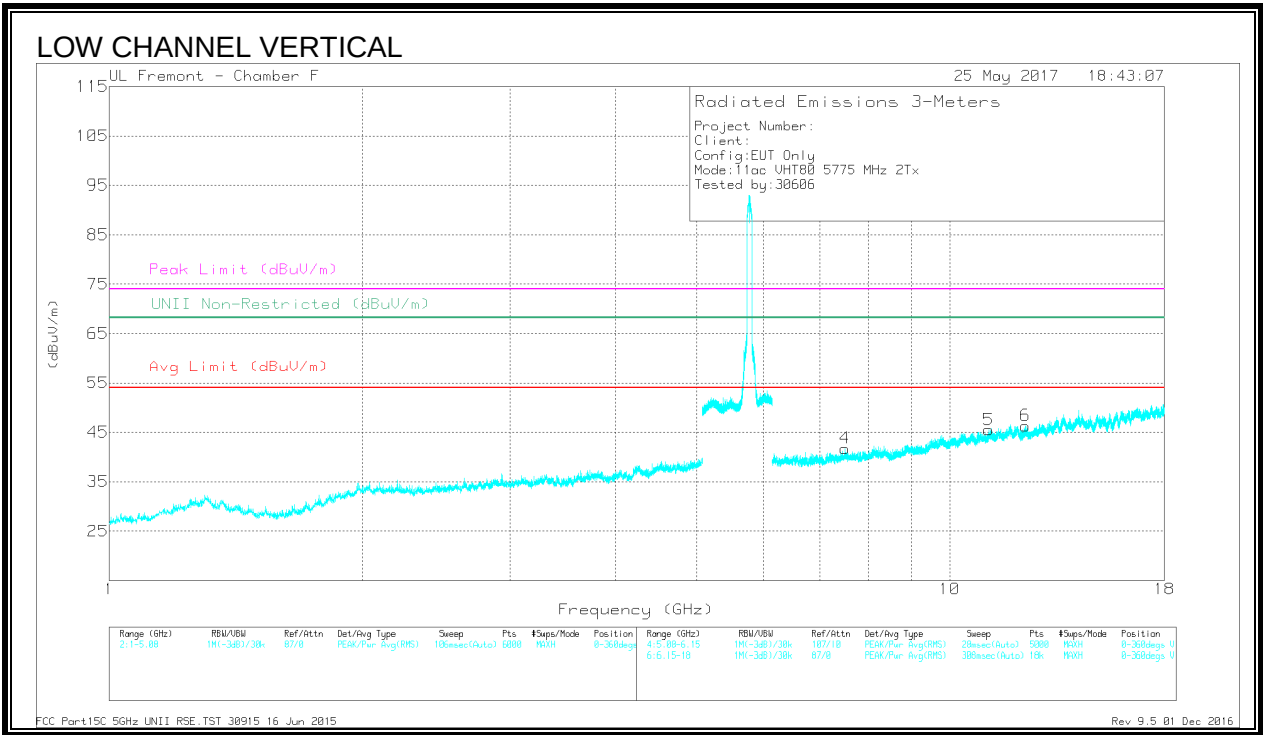
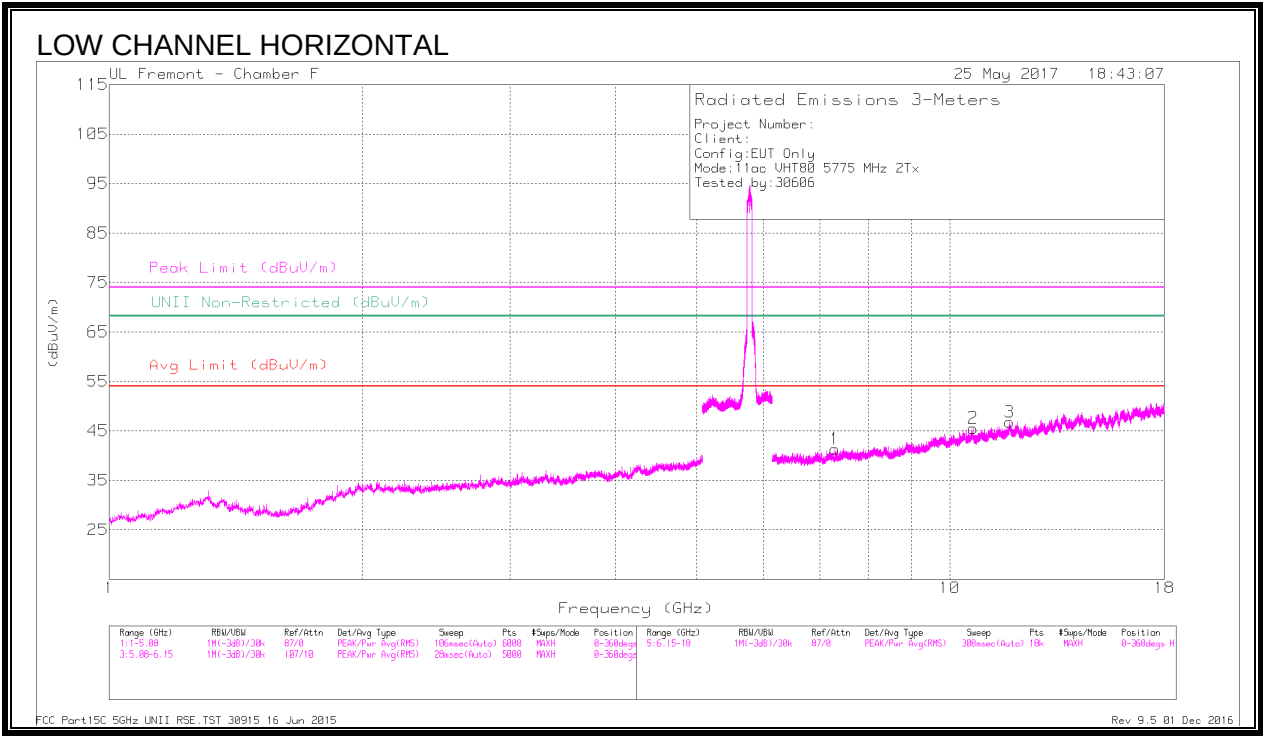
Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-42.49	Pk	35.4	-23.9	11.8	-19.19	26.99	-46.18	214	373	V
2	5.93	-59.04	Pk	35.5	-23.7	11.8	-35.44	-27	-8.44	214	373	V

Pk - Peak detector

Bandedge 5.850-6GHz 15_407 EIRP - V.TST 30915 26 Apr 2016
Rev 9.5 01 Dec 2016



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl /Filtr/Power (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.299	36.89	PK-U	35.9	-25.3	0	47.49	-	-	74	-26.51	324	136	H
	* 7.298	24.9	ADR	35.9	-25.3	.19	35.69	54	-18.31	-	-	324	136	H
2	* 10.665	35.41	PK-U	37.6	-21.3	0	51.71	-	-	74	-22.29	162	289	H
	* 10.662	23.66	ADR	37.6	-21.3	.19	40.15	54	-13.85	-	-	162	289	H
3	* 11.781	36.03	PK-U	39	-21.4	0	53.63	-	-	74	-20.37	27	251	H
	* 11.78	23.93	ADR	39	-21.4	.19	41.72	54	-12.28	-	-	27	251	H
4	* 7.5	37.07	PK-U	36.1	-24.9	0	48.27	-	-	74	-25.73	237	177	V
	* 7.501	25.31	ADR	36.1	-24.9	.19	36.7	54	-17.3	-	-	237	177	V
5	* 11.123	35.31	PK-U	38.1	-21.6	0	51.81	-	-	74	-22.19	167	381	V
	* 11.125	23.8	ADR	38.1	-21.6	.19	40.49	54	-13.51	-	-	167	381	V
6	* 12.303	35.84	PK-U	38.7	-21.9	0	52.64	-	-	74	-21.36	115	272	V
	* 12.305	24.15	ADR	38.7	-21.8	.19	41.24	54	-12.76	-	-	115	272	V

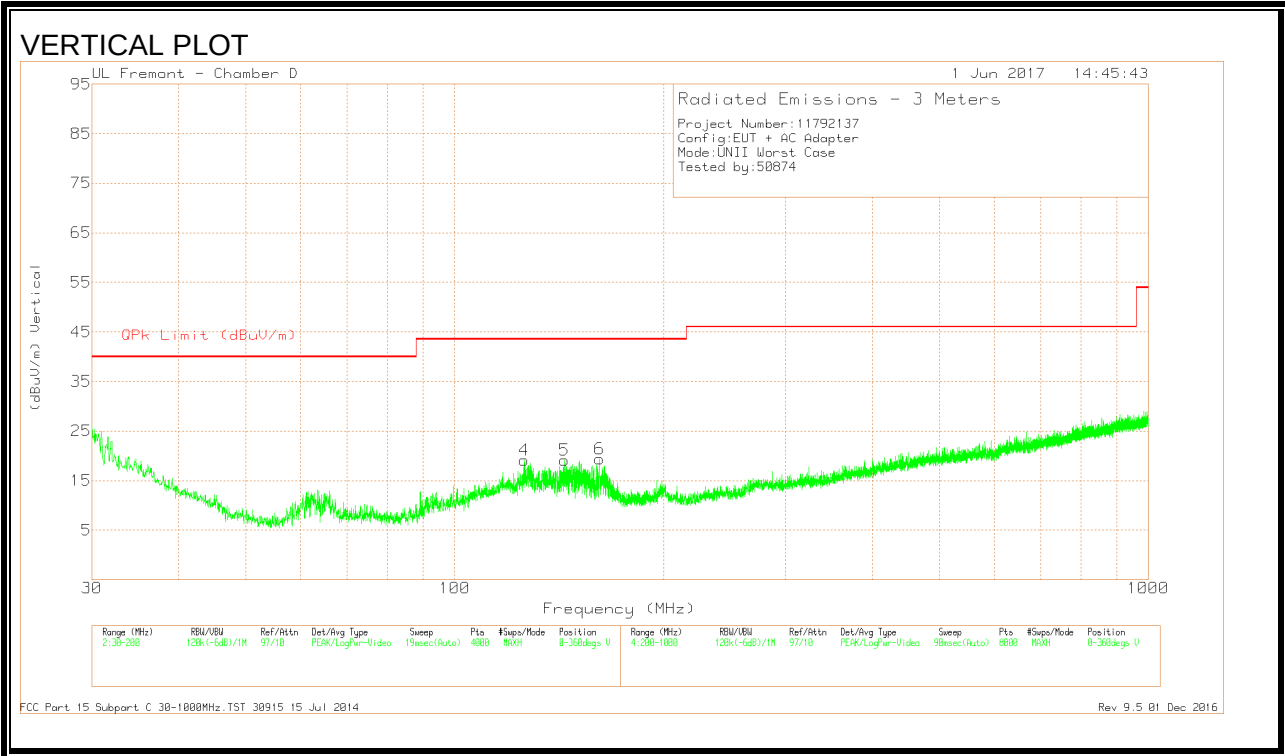
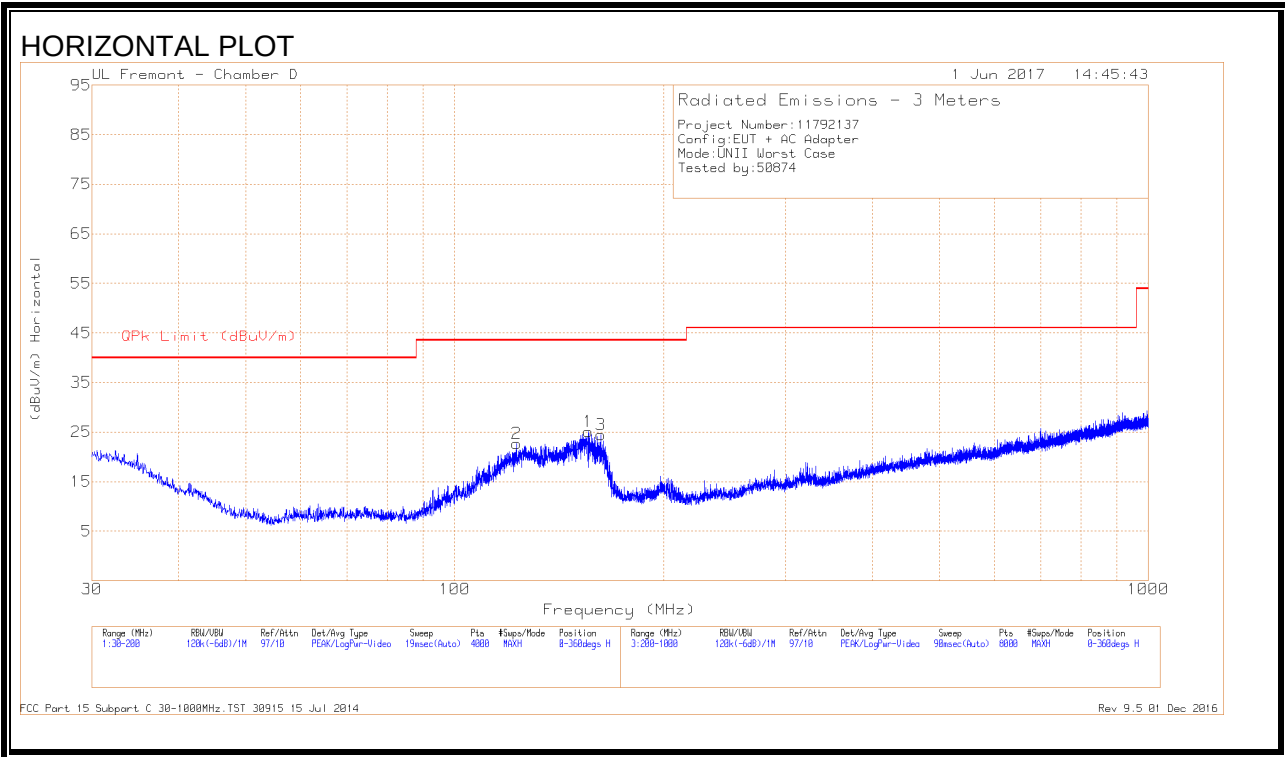
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 122.759	35.73	Pk	18.1	-31.2	22.63	43.52	-20.89	0-360	199	H
3	* 162.4218	39.31	Pk	16.1	-31	24.41	43.52	-19.11	0-360	98	H
4	* 125.8623	32.28	Pk	18.1	-31.2	19.18	43.52	-24.34	0-360	100	V
5	144.057	33.53	Pk	16.7	-31.1	19.13	43.52	-24.39	0-360	100	V
1	155.8326	39.79	Pk	16.3	-31	25.09	43.52	-18.43	0-360	199	H
6	161.8266	34.26	Pk	16.1	-31	19.36	43.52	-24.16	0-360	100	V

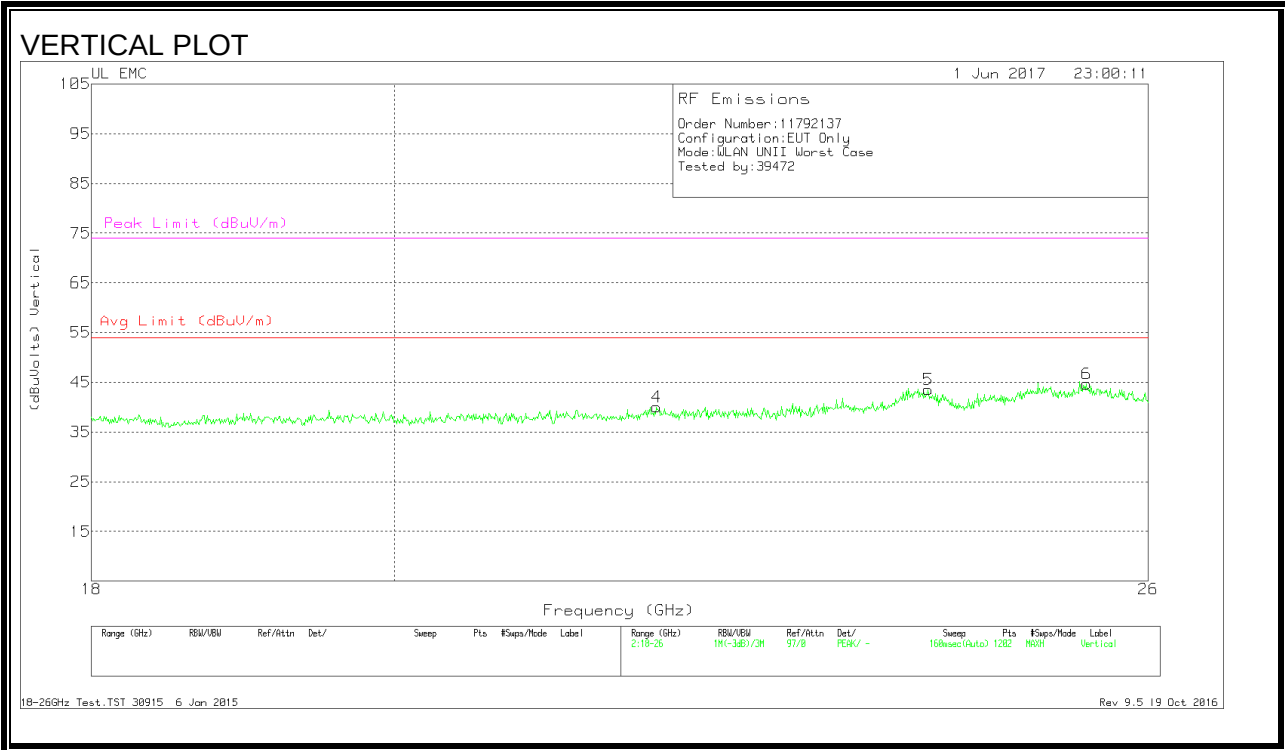
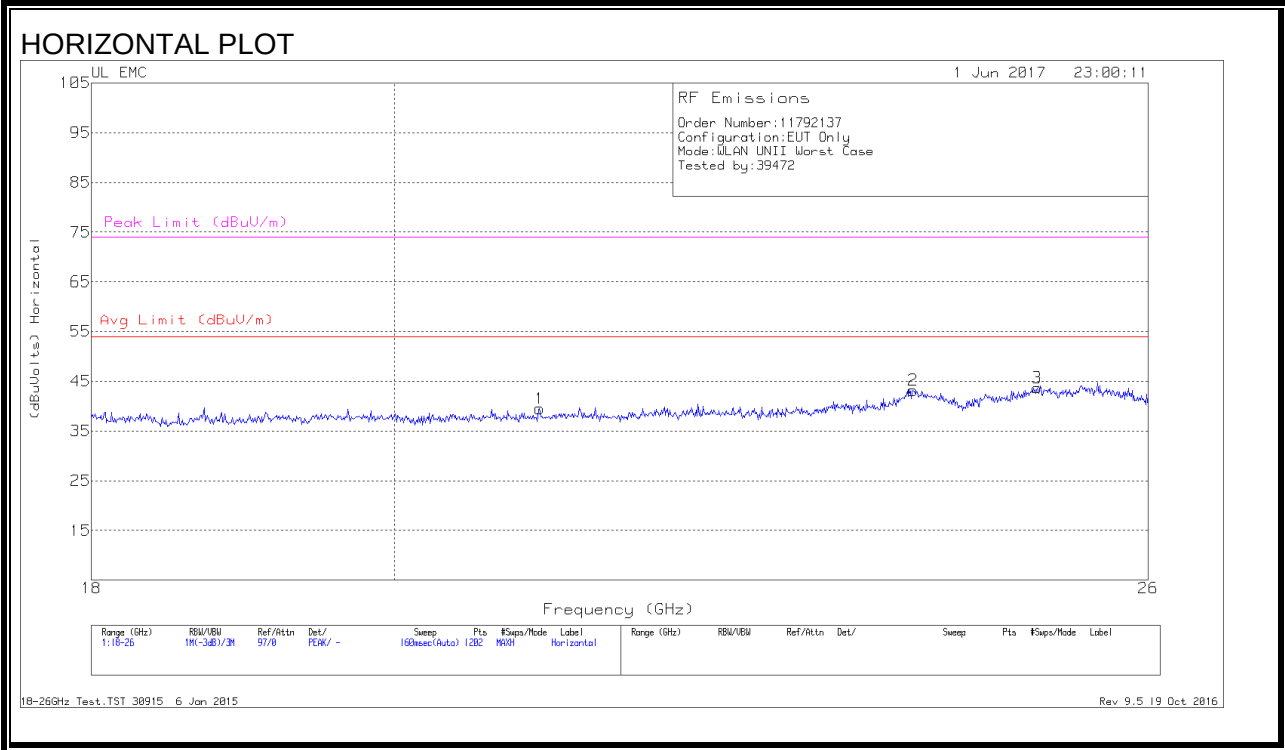
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014

9.3. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Correcte d Reading (dBuV s)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	21.037	41	Pk	33.2	-25.2	-9.5	39.5	54	-14.5	74	-34.5
2	23.955	42.77	Pk	34.2	-24.3	-9.5	43.17	54	-10.83	74	-30.83
3	25.014	43.27	Pk	34.4	-24.5	-9.5	43.67	54	-10.33	74	-30.33
4	21.91	41.5	Pk	33.2	-25.2	-9.5	40	54	-14	74	-34
5	24.082	43.2	Pk	34.1	-24.3	-9.5	43.5	54	-10.5	74	-30.5
6	25.447	43.67	Pk	34.9	-24.4	-9.5	44.67	54	-9.33	74	-29.33

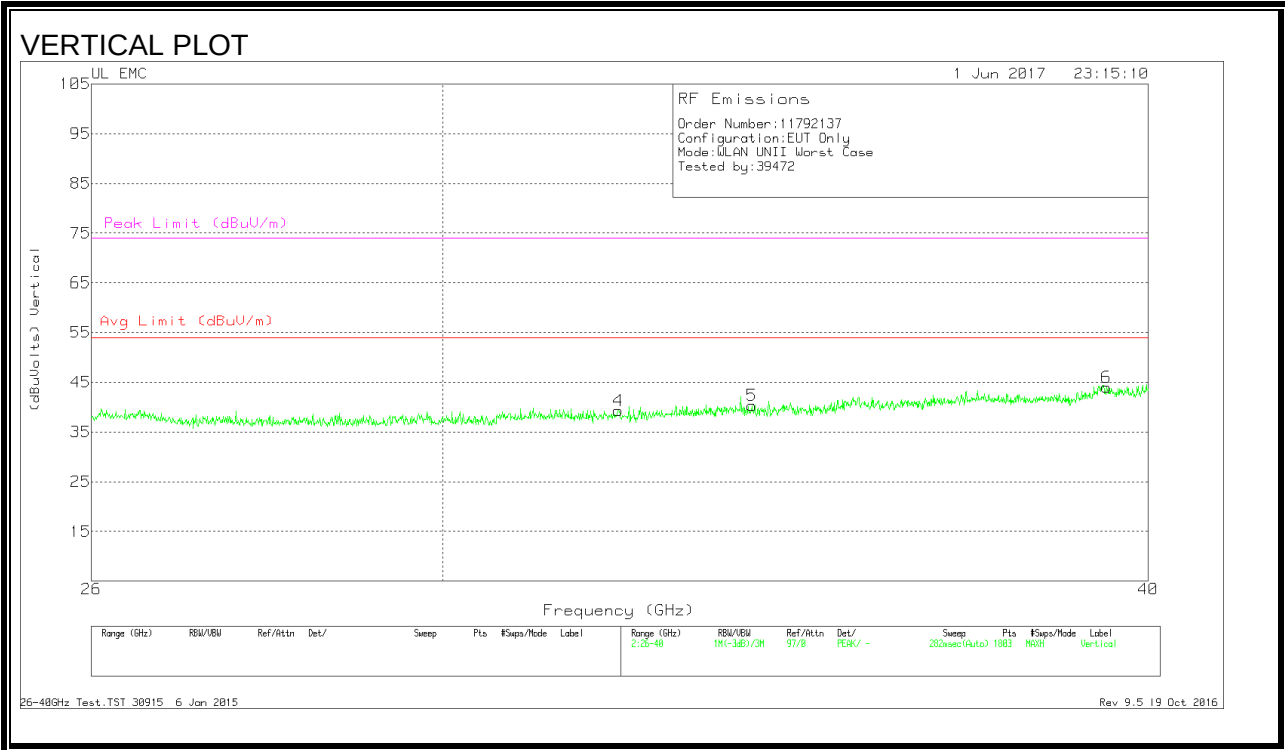
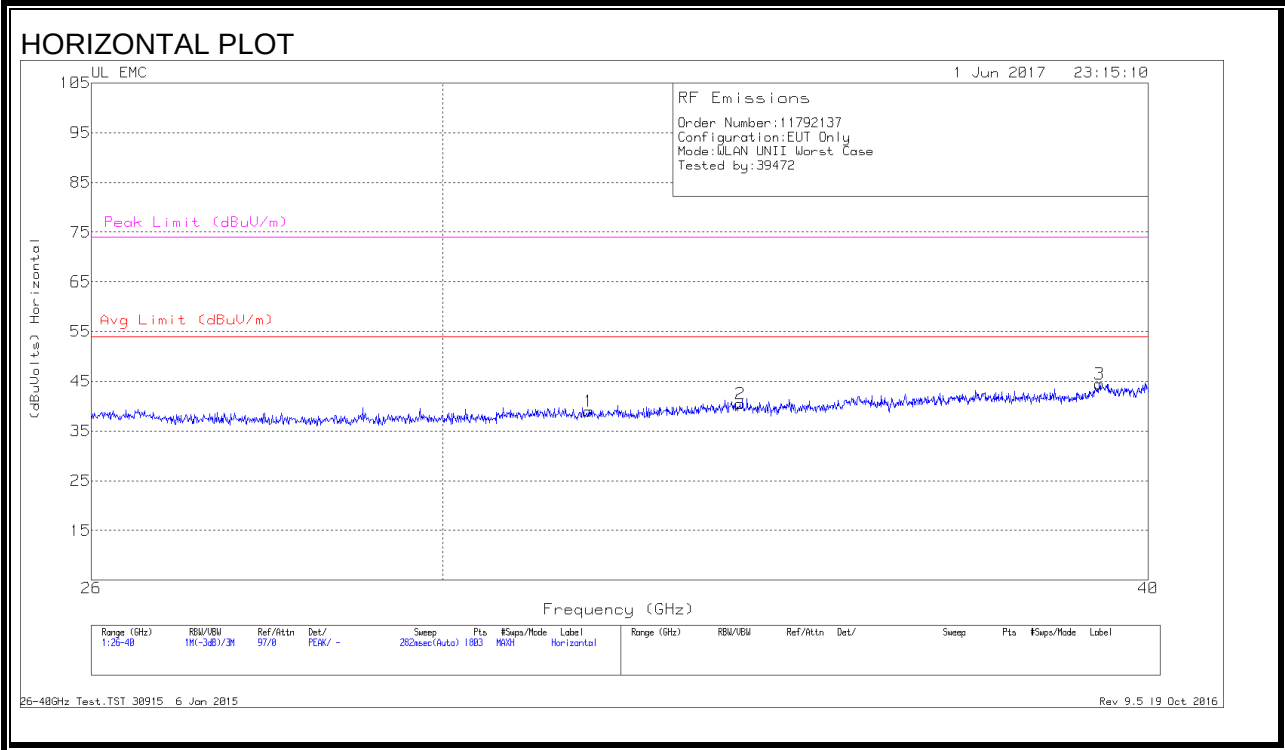
Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

9.4. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION)



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Correcte d Reading (dBuVOLT s)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	31.842	45.5	Pk	36.3	-33.3	-9.5	39	54	-15	74	-35
2	33.87	46.7	Pk	36.9	-33.6	-9.5	40.5	54	-13.5	74	-33.5
3	39.208	48.2	Pk	38.4	-32.6	-9.5	44.5	54	-9.5	74	-29.5
4	32.231	45.93	Pk	36.4	-33.5	-9.5	39.33	54	-14.67	74	-34.67
5	34.033	46.63	Pk	36.9	-33.7	-9.5	40.33	54	-13.67	74	-33.67
6	39.324	47.6	Pk	38.2	-32.3	-9.5	44	54	-10	74	-30

Pk - Peak detector

26-40GHz Test.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

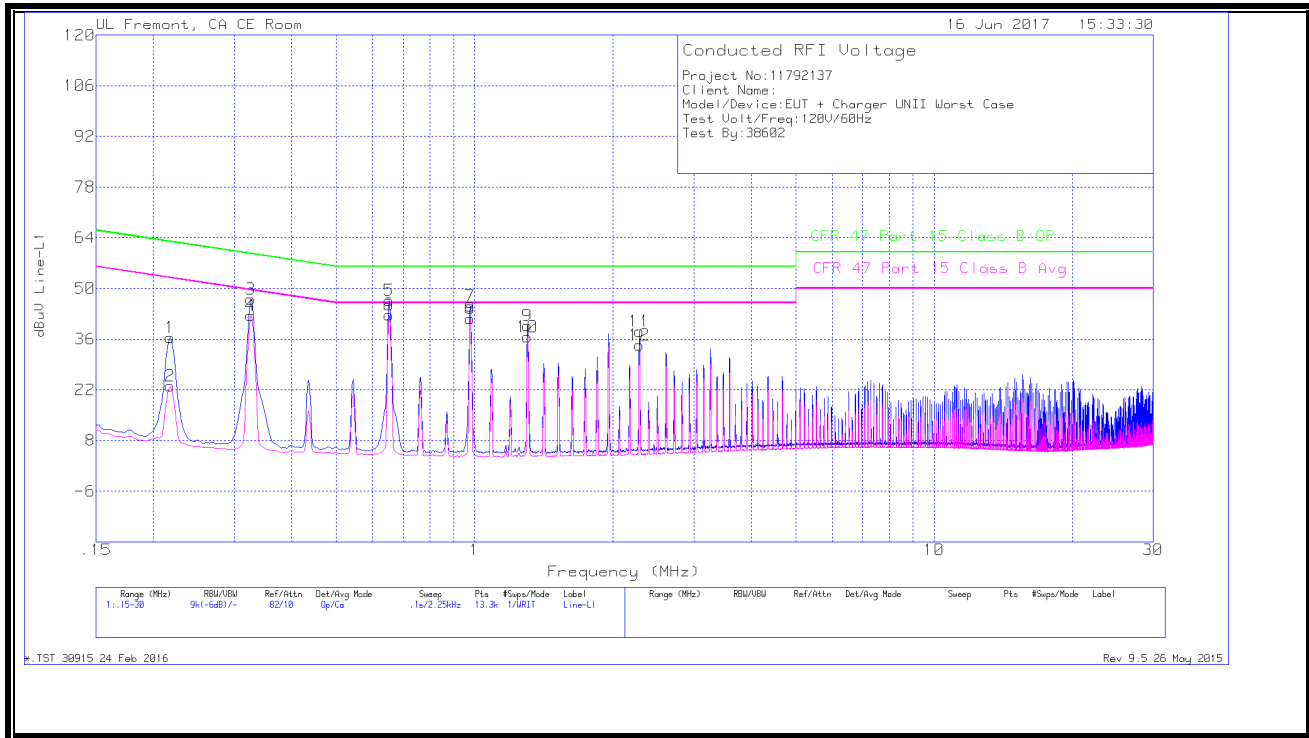
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. EUT POWERED BY AC/DC ADAPTER VIA USB CABLE

LINE 1 RESULTS



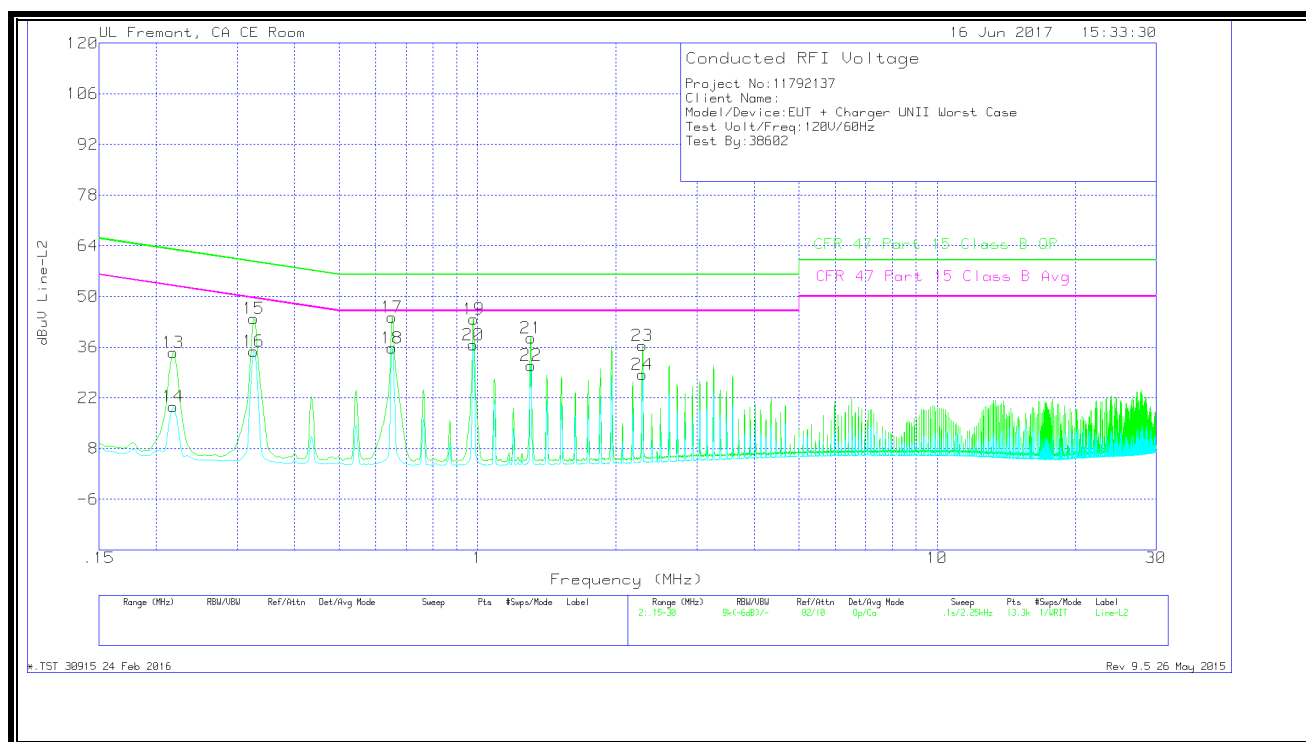
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.2175	25.54	Qp	.8	0	10.1	36.44	62.91	-26.47	-	-
2	.2175	12.19	Ca	.8	0	10.1	23.09	-	-	52.91	-29.82
3	.3255	36.27	Qp	.5	.1	10.1	46.97	59.57	-12.6	-	-
4	.3255	31.82	Ca	.5	.1	10.1	42.52	-	-	49.57	-7.05
5	.65175	36.21	Qp	.3	.1	10.1	46.71	56	-9.29	-	-
6	.65175	32.28	Ca	.3	.1	10.1	42.78	-	-	46	-3.22
7	.978	34.79	Qp	.2	.1	10.1	45.19	56	-10.81	-	-
8	.978	31.23	Ca	.2	.1	10.1	41.63	-	-	46	-4.37
9	1.30425	29.3	Qp	.2	.1	10.1	39.7	56	-16.3	-	-
10	1.30425	26.15	Ca	.2	.1	10.1	36.55	-	-	46	-9.45
11	2.283	27.72	Qp	.2	.1	10.1	38.12	56	-17.88	-	-
12	2.283	23.97	Ca	.2	.1	10.1	34.37	-	-	46	-11.63

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

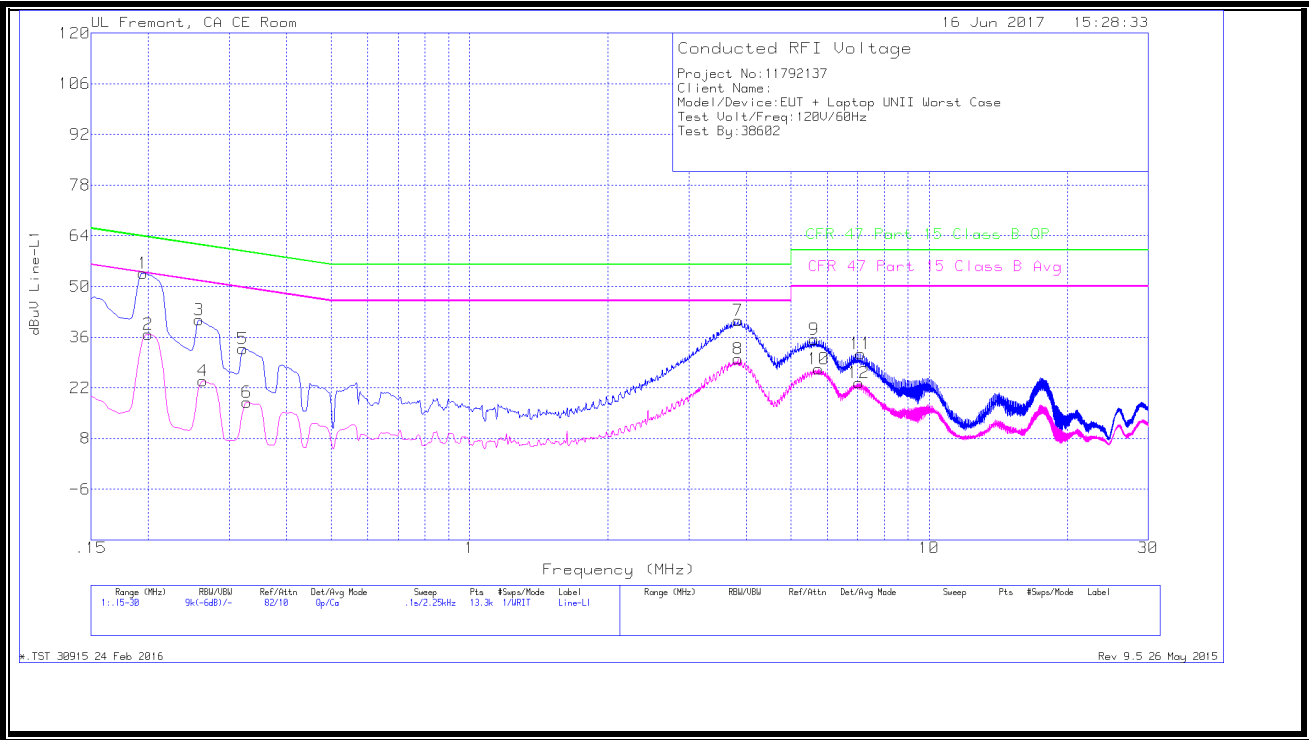
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.2175	23.48	Qp	.9	0	10.1	34.48	62.91	-28.43	-	-
14	.2175	8.55	Ca	.9	0	10.1	19.55	-	-	52.91	-33.36
15	.3255	33.26	Qp	.5	.1	10.1	43.96	59.57	-15.61	-	-
16	.3255	24.25	Ca	.5	.1	10.1	34.95	-	-	49.57	-14.62
17	.65175	33.79	Qp	.3	.1	10.1	44.29	56	-11.71	-	-
18	.65175	25.17	Ca	.3	.1	10.1	35.67	-	-	46	-10.33
19	.98025	33.28	Qp	.3	.1	10.1	43.78	56	-12.22	-	-
20	.978	26.07	Ca	.3	.1	10.1	36.57	-	-	46	-9.43
21	1.3065	28.15	Qp	.2	.1	10.1	38.55	56	-17.45	-	-
22	1.3065	20.56	Ca	.2	.1	10.1	30.96	-	-	46	-15.04
23	2.28525	25.98	Qp	.2	.1	10.1	36.38	56	-19.62	-	-
24	2.28525	17.98	Ca	.2	.1	10.1	28.38	-	-	46	-17.62

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

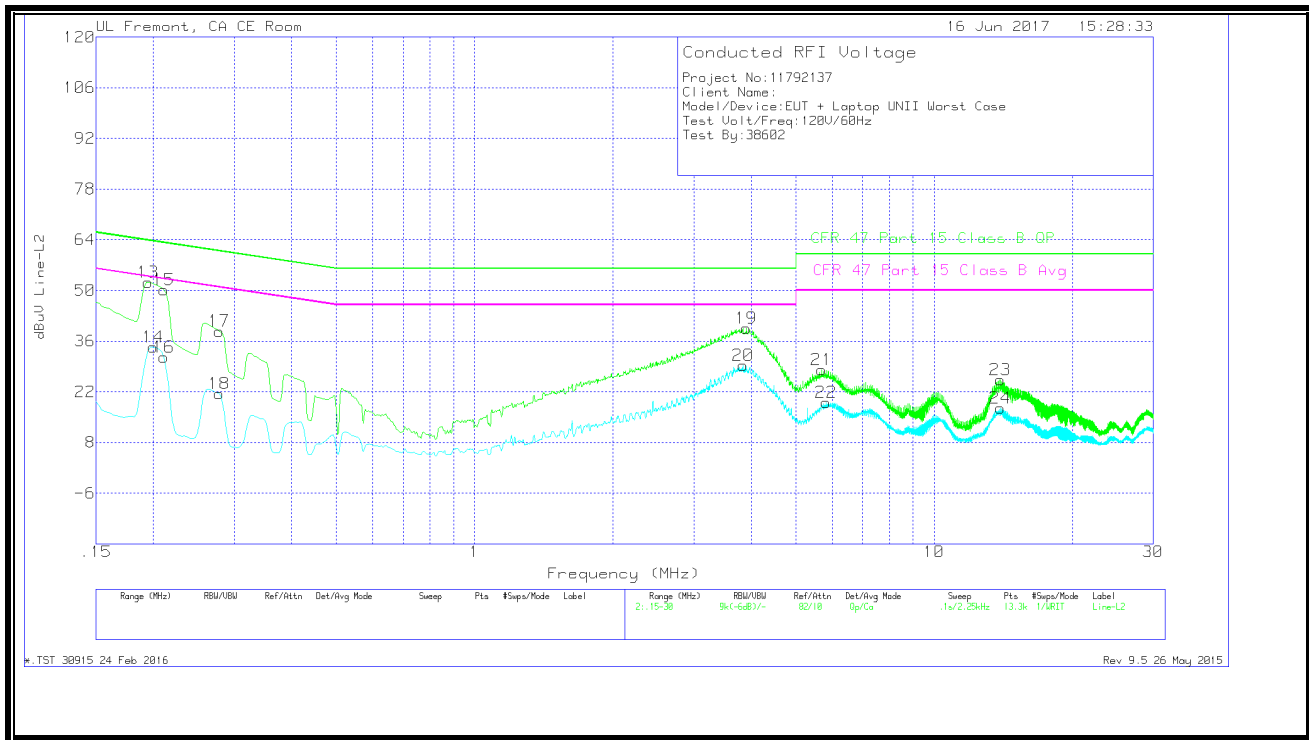


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.195	42.51	Qp	.9	.1	10.1	53.61	63.82	-10.21	-	-
2	.1995	25.68	Ca	.9	.1	10.1	36.78	-	-	53.63	-16.85
3	.258	29.99	Qp	.6	.1	10.1	40.79	61.5	-20.71	-	-
4	.2625	13.1	Ca	.6	.1	10.1	23.9	-	-	51.35	-27.45
5	.321	22.15	Qp	.5	.1	10.1	32.85	59.68	-26.83	-	-
6	.32775	7.34	Ca	.5	.1	10.1	18.04	-	-	49.51	-31.47
7	3.84	30.26	Qp	.2	.1	10.1	40.66	56	-15.34	-	-
8	3.83775	19.61	Ca	.2	.1	10.1	30.01	-	-	46	-15.99
9	5.631	24.94	Qp	.2	.1	10.1	35.34	60	-24.66	-	-
10	5.757	16.69	Ca	.2	.1	10.2	27.19	-	-	50	-22.81
11	7.1025	20.88	Qp	.2	.2	10.2	31.48	60	-28.52	-	-
12	7.04175	12.8	Ca	.2	.2	10.2	23.4	-	-	50	-26.6

Qp - Quasi-Peak detector
Ca - CISPR 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 C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.195	41.07	Qp	1	.1	10.1	52.27	63.82	-11.55	-	-
14	.1995	23.22	Ca	1	.1	10.1	34.42	-	-	53.63	-19.21
15	.21075	39.24	Qp	.9	0	10.1	50.24	63.18	-12.94	-	-
16	.21075	20.52	Ca	.9	0	10.1	31.52	-	-	53.18	-21.66
17	.27825	27.88	Qp	.7	.1	10.1	38.78	60.87	-22.09	-	-
18	.27825	10.54	Ca	.7	.1	10.1	21.44	-	-	50.87	-29.43
19	3.90413	29.24	Qp	.2	.1	10.1	39.64	56	-16.36	-	-
20	3.83775	18.93	Ca	.2	.1	10.1	29.33	-	-	46	-16.67
21	5.694	17.63	Qp	.2	.1	10.1	28.03	60	-31.97	-	-
22	5.82225	8.6	Ca	.2	.1	10.2	19.1	-	-	50	-30.9
23	13.947	14.58	Qp	.3	.2	10.2	25.28	60	-34.72	-	-
24	13.947	6.74	Ca	.3	.2	10.2	17.44	-	-	50	-32.56

Qp - Quasi-Peak detector
Ca - CISPR 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

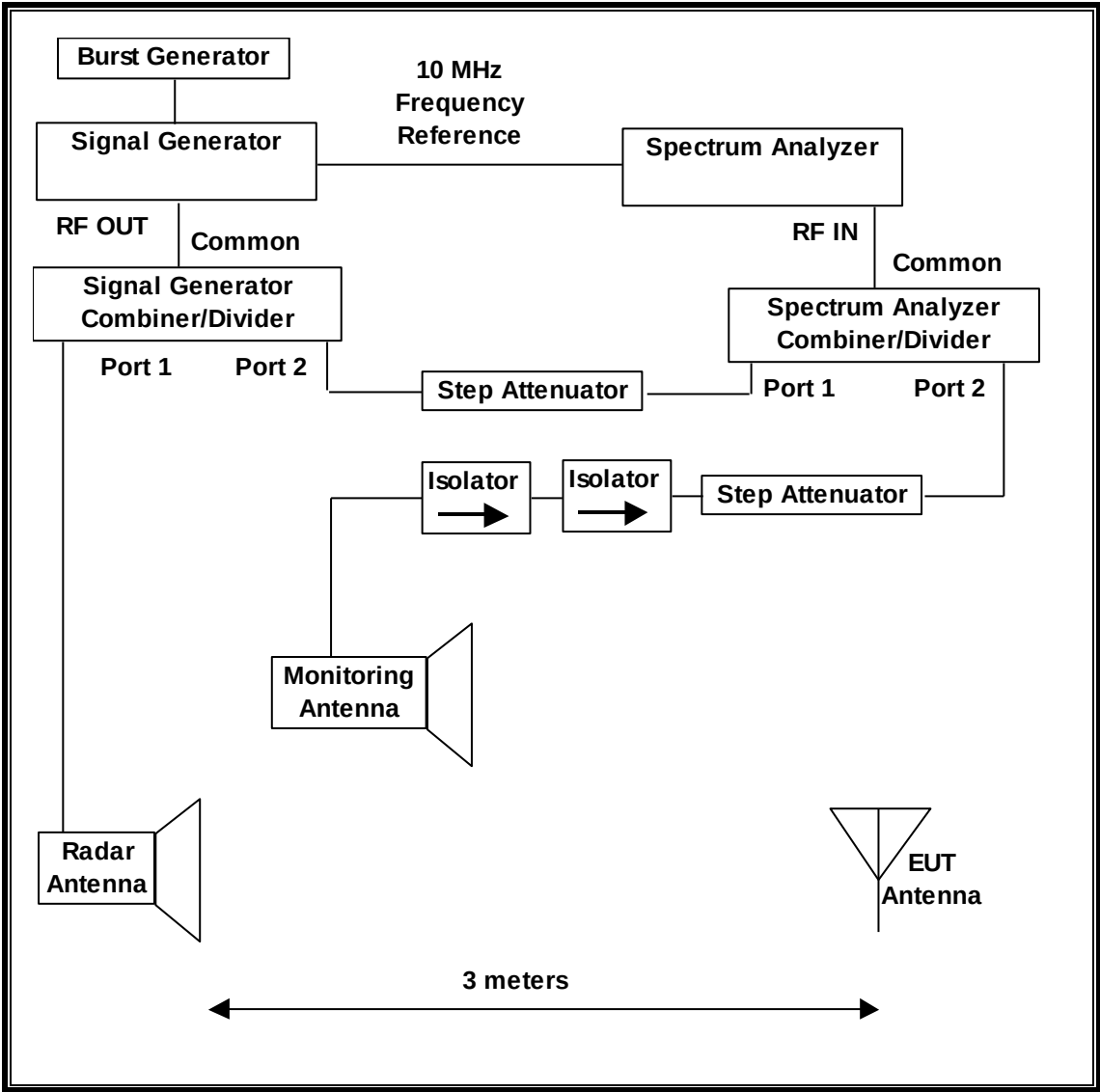
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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	06/13/17
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	MY55410147	12/15/17
Signal Generator, MXG X-Series RF Vector	Agilent	N5182B	MY51350337	04/21/18

11.1.3. TEST ROOM ENVIRONMENT

The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

ENVIRONMENT CONDITION

Parameter	Value
Temperature	25.7, 27.0 and 25.9 °C
Humidity	29, 29 and 29 %

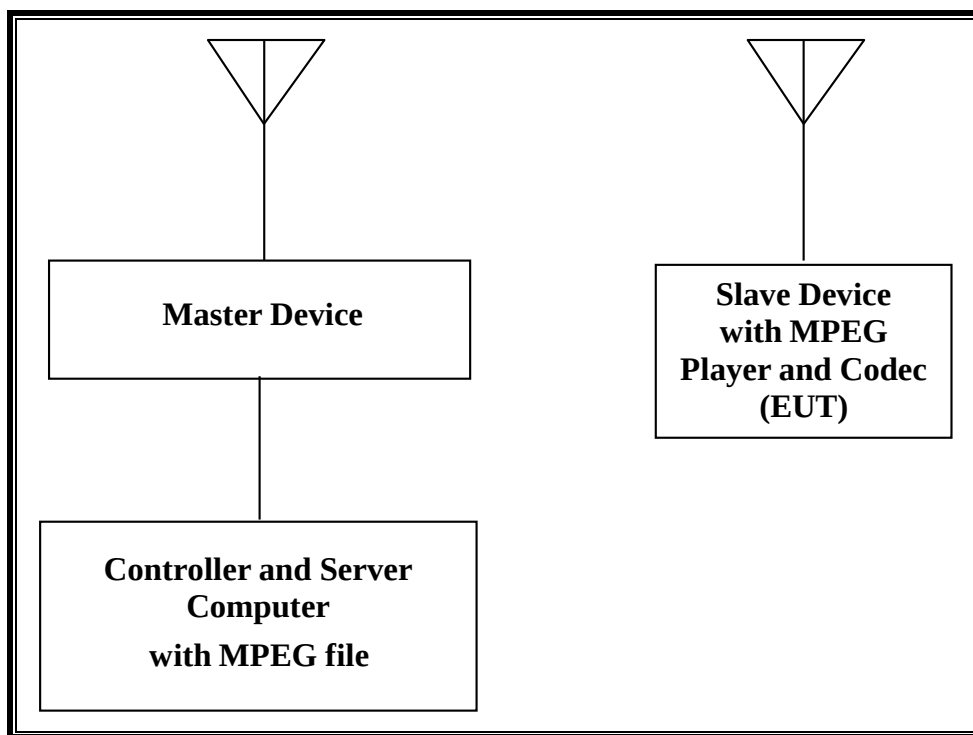
11.1.4. TEST AND MEASUREMENT SOFTWARE

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

TEST SOFTWARE LIST		
Name	Version	Test / Function
Aggregate Time-PXA	3.0	Channel Loading and Aggregate Closing Time
PXA Read	3.0.0.9	Signal Generator Screen Capture
SGXProject.exe	1.7	Radar Waveform Generation and Download

11.1.5. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



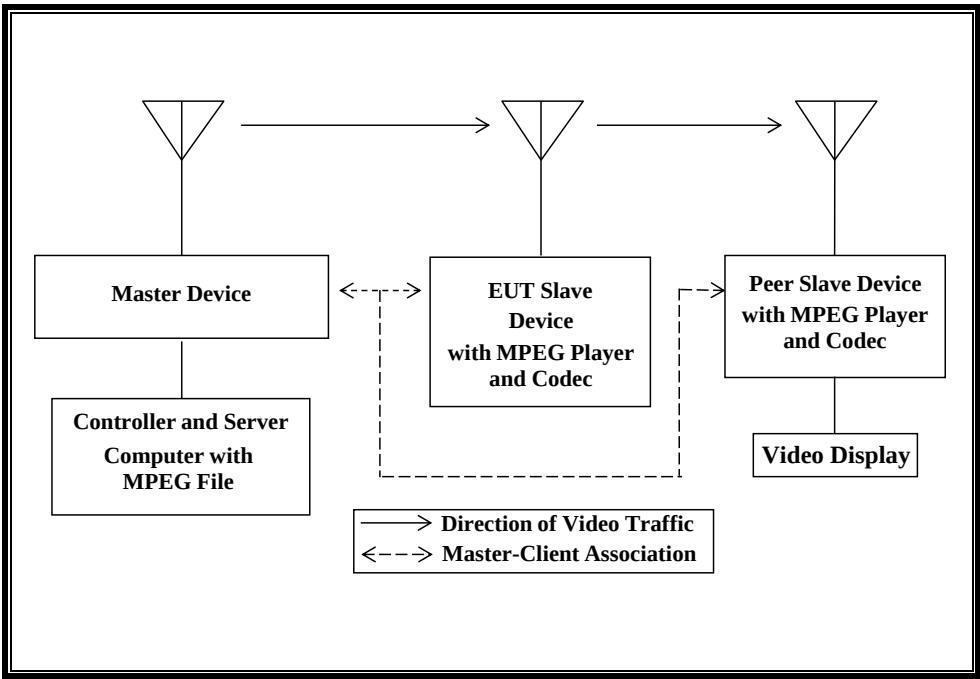
SUPPORT EQUIPMENT

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 Router (Master Device)	Apple	A1521	C86LCE5GFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1181	4H629022WLV	DoC
AC Adapter (Notebook PC)	Apple	A1343	C0424760BMPF1Y7AB	DoC

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

RADIATED METHOD EUT TEST SETUP



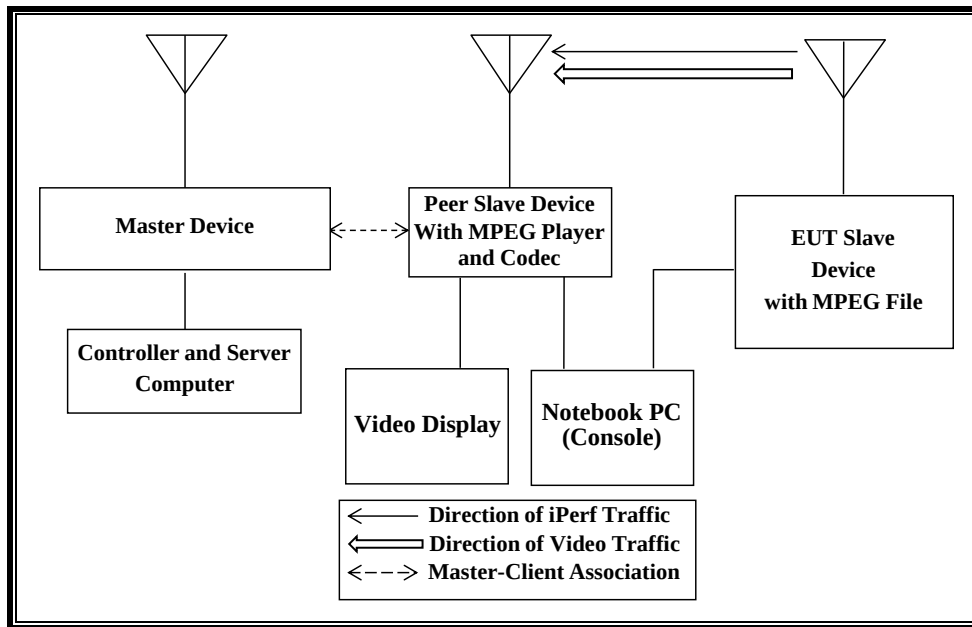
SUPPORT EQUIPMENT

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

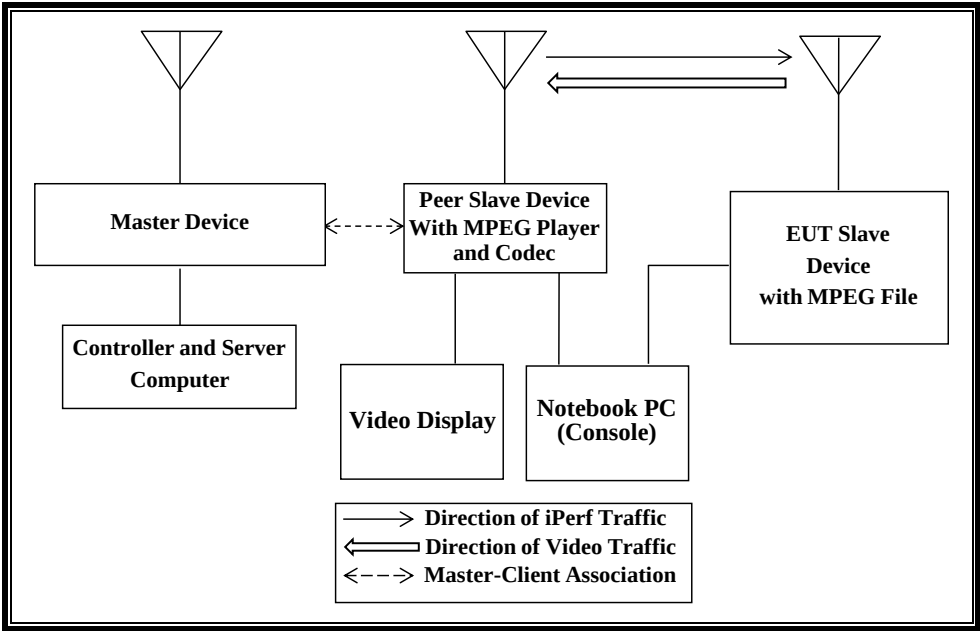
PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
802.11a/b/g/n/ac Wireless Router (Master Device)	Apple	A1521	C86LCE5GFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1181	4H629022WLV	DoC
AC Adapter (Notebook PC)	Apple	A1343	C0424760BMPF1Y7AB	DoC
Peer Slave Device	Apple	A1625	C07S4033HHFP	BCGA1625
15" LCD TV (Video Display)	Polaroid	TLX-01511C	02006	DoC

11.1.7. SETUP OF EUT (PEER TO PEER MODE)

RADIATED METHOD EUT TEST SETUP WHEN MONITORING THE EUT



RADIATED METHOD EUT TEST SETUP WHEN MONITORING THE PEER SLAVE DEVICE)



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 Router (Master Device)	Apple	A1521	C86LCE5GFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1181	4H629022WLV	DoC
AC Adapter (Notebook PC)	Apple	A1343	C0424760BMPF1Y7AB	DoC
Apple TV (Peer Slave Device)	Apple	A1625	C07S4033HHFP	BCGA1625
Notebook PC (Peer Console)	Apple	A1466	C2QLN093FKYR	DoC
AC Adapter (Console PC)	Apple	A1424	C06520721HYG6P4AH	DoC
15" LCD TV (Video Display)	Polaroid	TLX-01511C	02006	DoC

11.1.8. 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 19.15 dBm EIRP in the 5250-5350 MHz band and 19.57 dBm EIRP in the 5470-5725 MHz band.

Only UAT 2 and LAT 3 antennas assembly utilized with the EUT has a gain of -3.11 dBi and -6.98 dBi in the 5250-5350 MHz band and -2.77 dBi and -6.89 dBi in the 5470-5725 MHz band.

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

In **Standard Client mode** WLAN traffic that meets or exceeds the minimum required loading was generated by streaming the compressed version of the video test file "6 ½ Magic Hours" from the Master to the Slave.

In **Client to Client mode** WLAN traffic is generated by streaming the compressed version of the video test file "6 ½ Magic Hours" from the Master to the Slave and then on to the peer slave device in full motion video mode using QuickTime media player and embedded proprietary AirPlay software.

In **Peer to Peer mode while monitoring the EUT**, WLAN traffic is generated with the combination of streaming the compressed version of the video test file "6 ½ Magic Hours" from the EUT to the Peer Slave Device in full motion video mode using QuickTime media player and embedded proprietary AirPlay software and Iperf from the EUT to the Peer Slave Device.

In **Peer to Peer mode while monitoring the Peer Slave Device**, WLAN traffic is generated with the combination of streaming the compressed version of the video test file "6 ½ Magic Hours" from the EUT to the Peer Slave Device in full motion video mode using QuickTime media player and embedded proprietary AirPlay software and Iperf from the Peer Slave Device to the EUT.

While performing Peer to Peer Mode testing only the Peer Slave Device is associated to the Master Device.

The Peer to Peer mode has been reviewed and approved as compliant with the DFS requirements for client devices by the FCC via KDB enquiry. The enquiry confirmed that the test cases used adequately demonstrate compliance with DFS requirements for client devices.

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

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

The software installed in the access point is revision 7.7.4 f0 dev.

The software installed in the EUT is 11.0 (15A282).

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 $> 23\text{dBm}$ (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 revision 7.7.4 f0 dev.

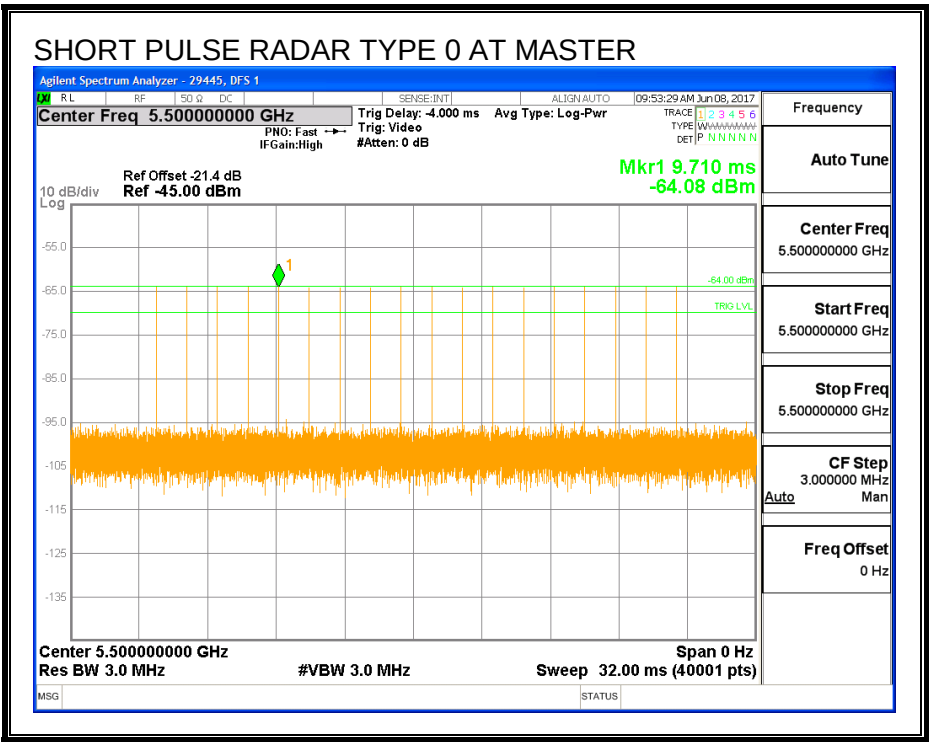
11.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

11.2.1. TEST CHANNEL

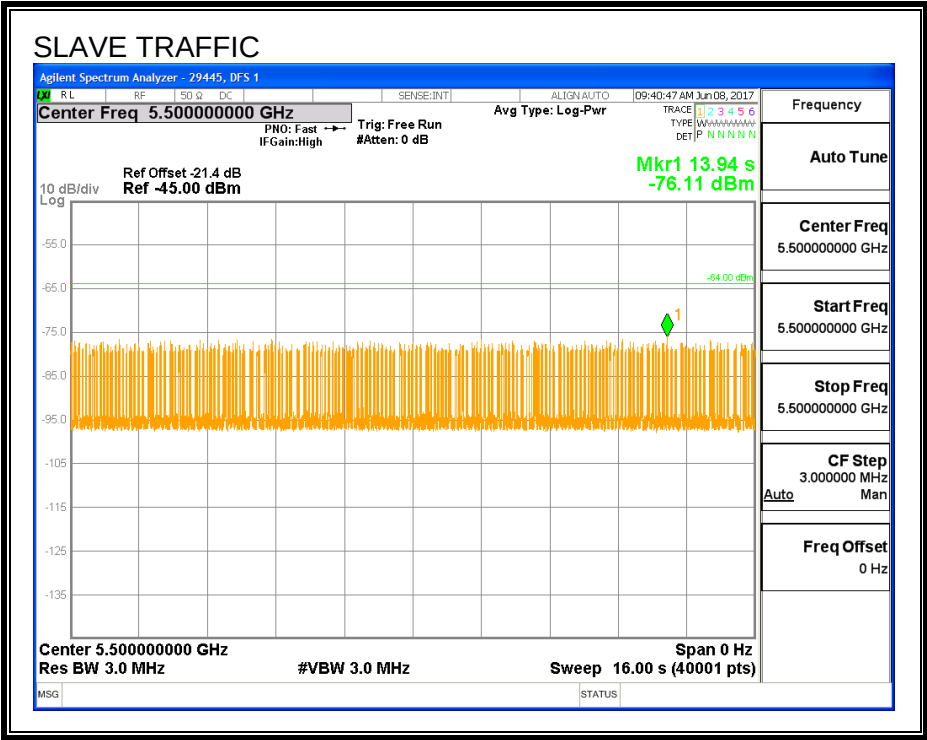
All tests were performed at a channel center frequency of 5500 MHz.

11.2.2. RADAR WAVEFORM AND TRAFFIC

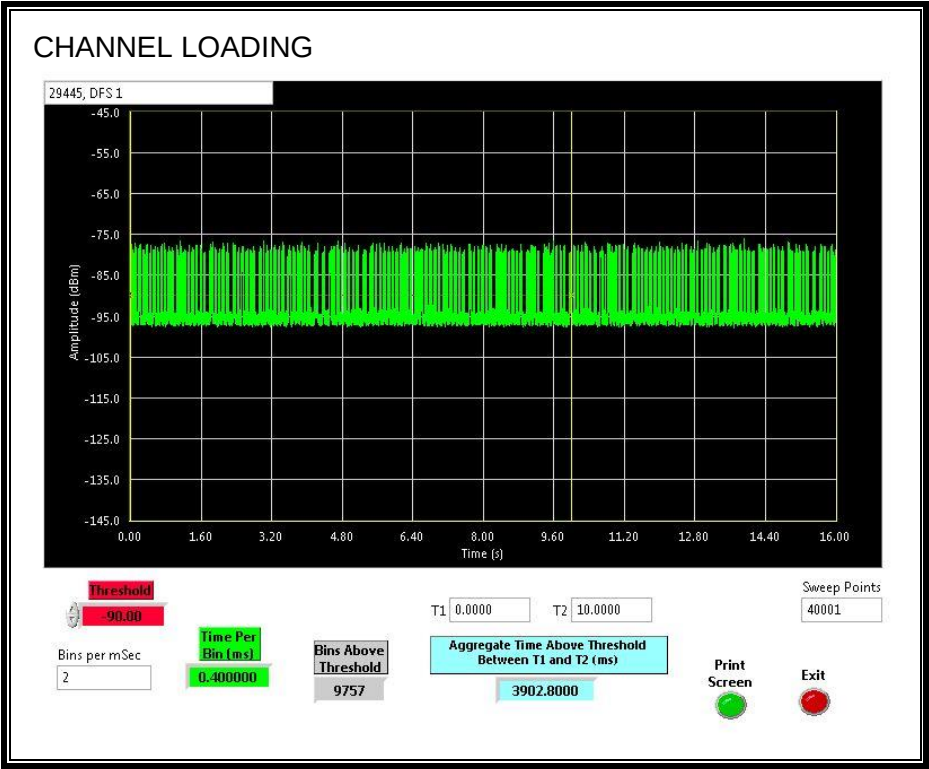
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 39.02%

11.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

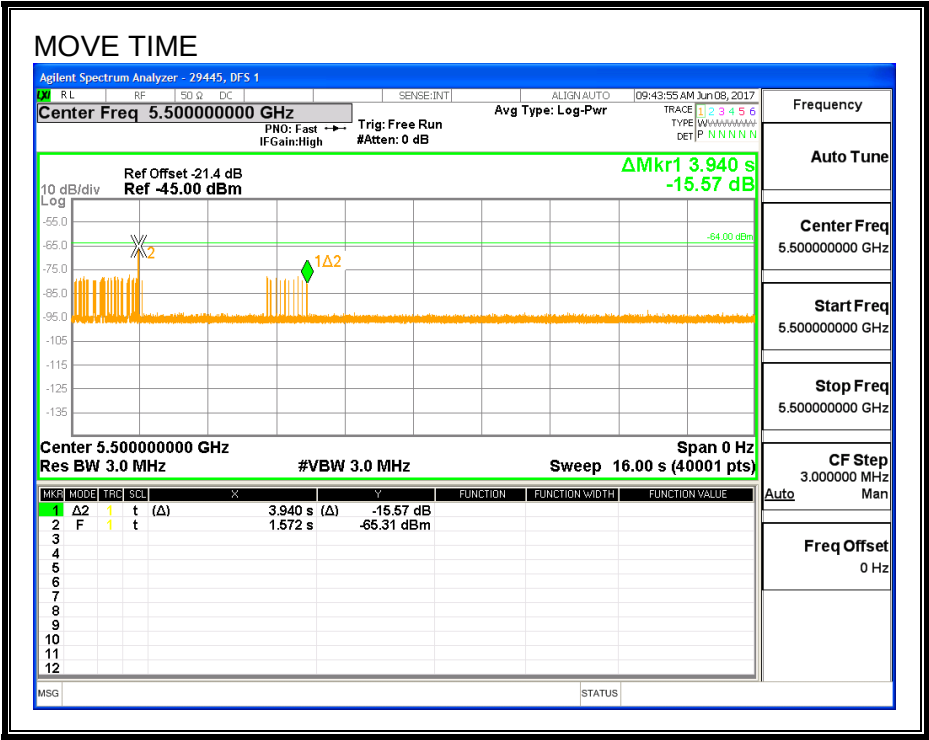
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

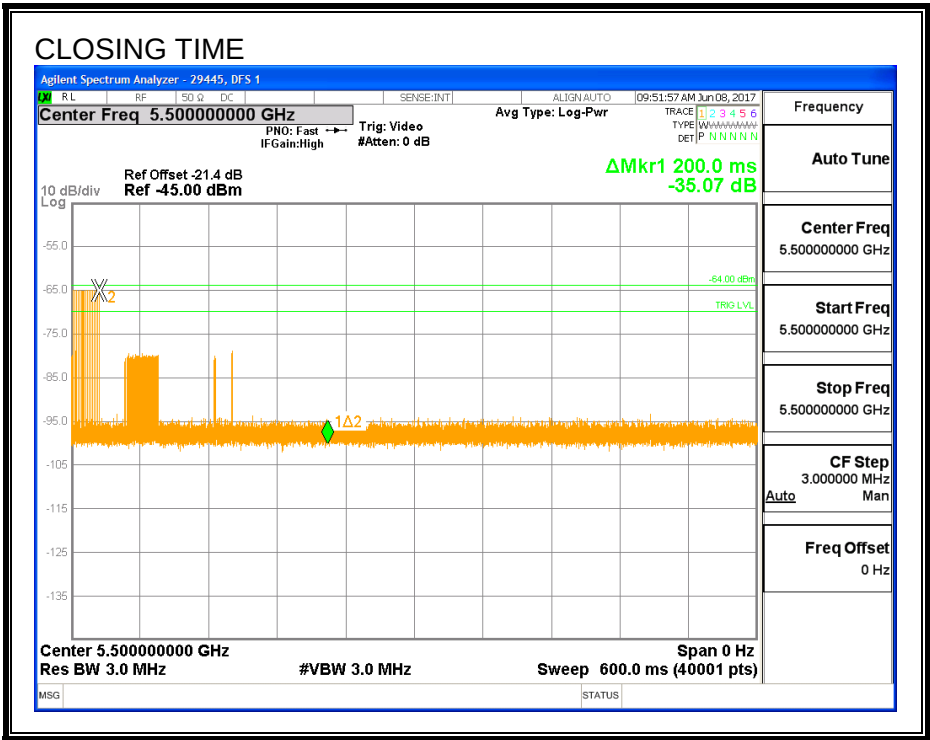
Channel Move Time (sec)	Limit (sec)
3.940	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
41.6	60

MOVE TIME

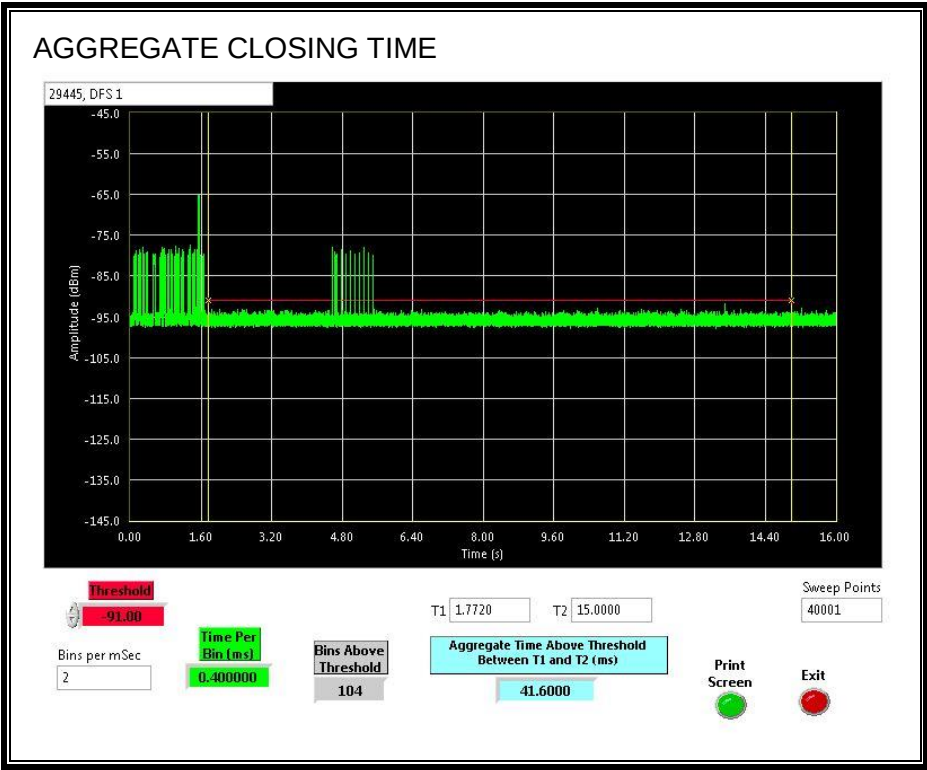


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



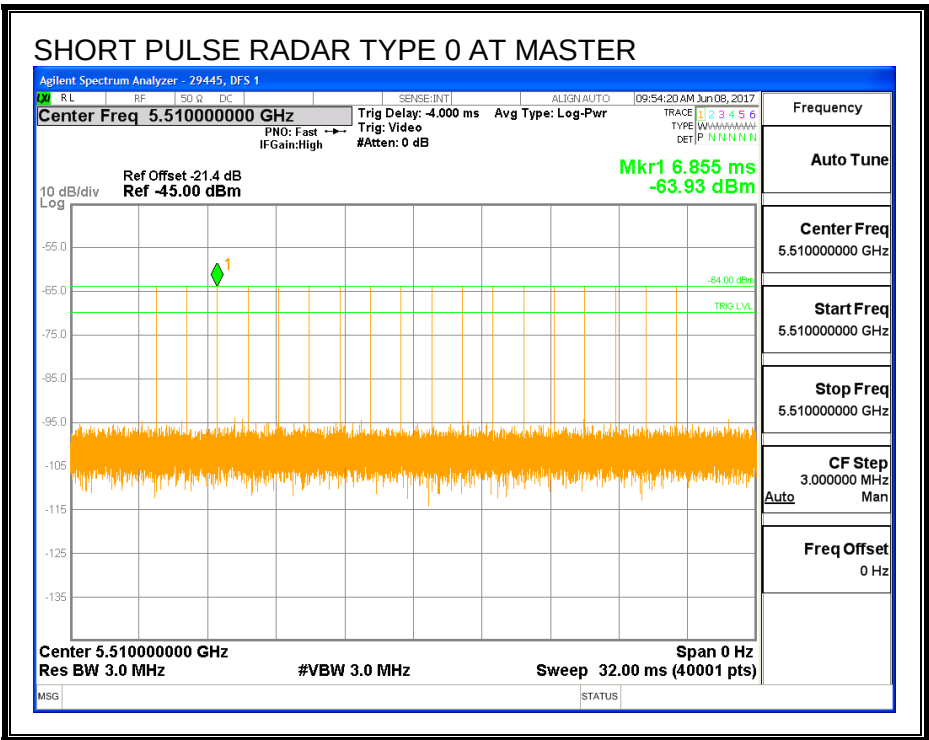
11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

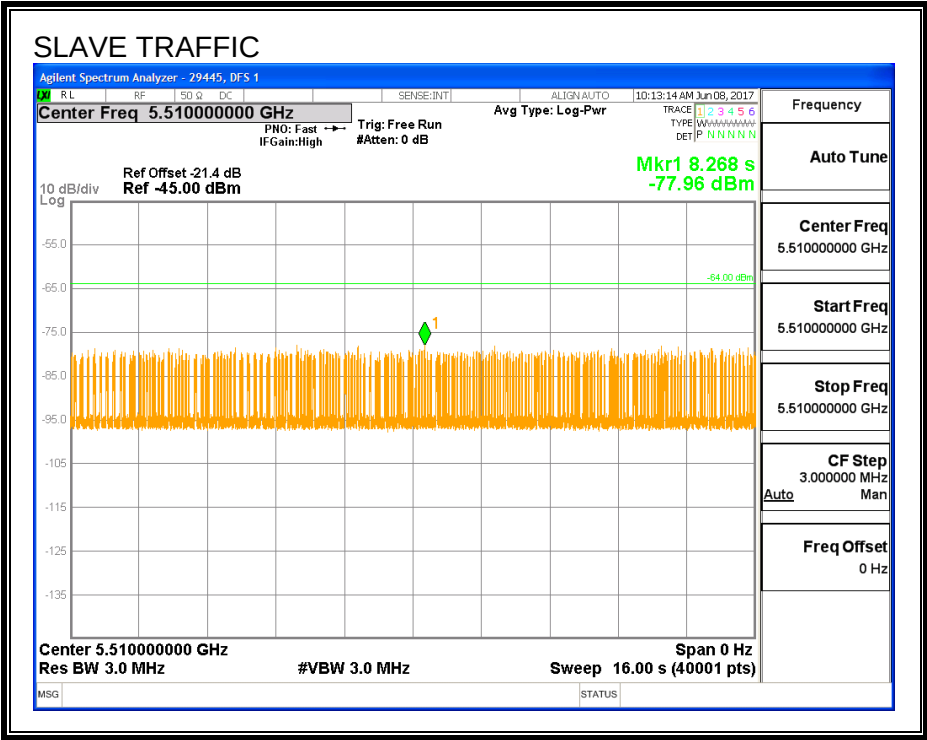
All tests were performed at a channel center frequency of 5510 MHz.

11.3.2. RADAR WAVEFORM AND TRAFFIC

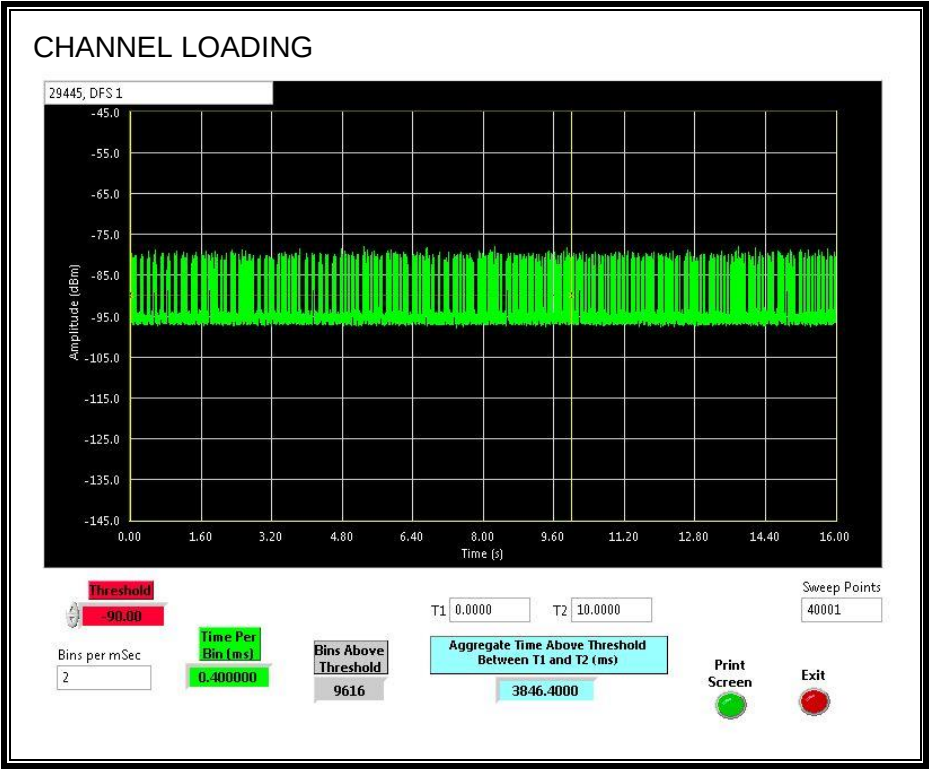
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 38.46%

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)

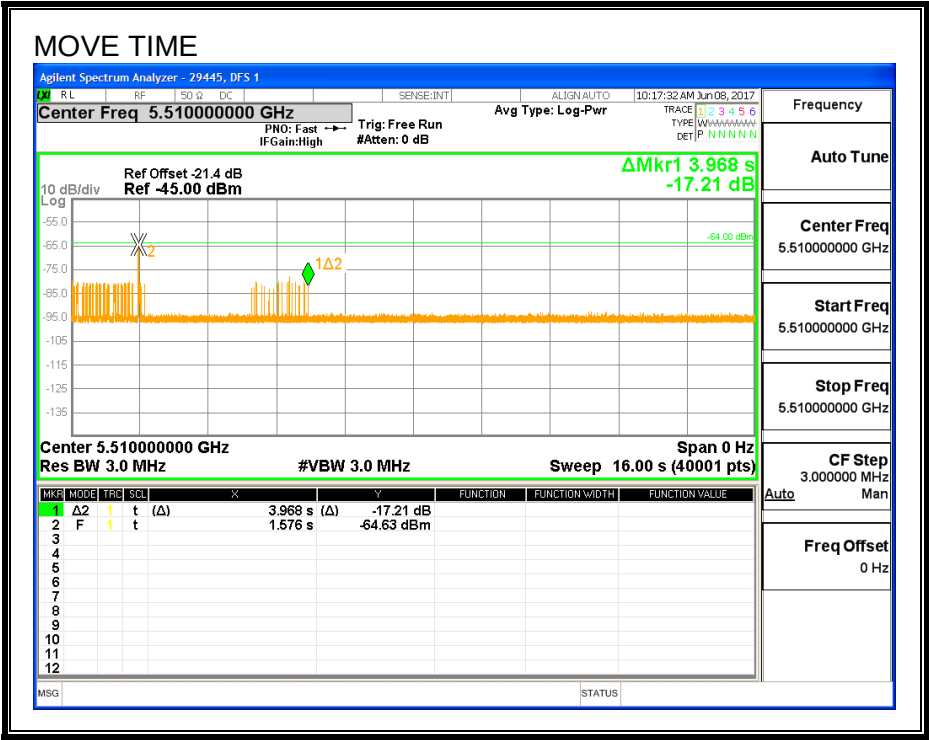
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

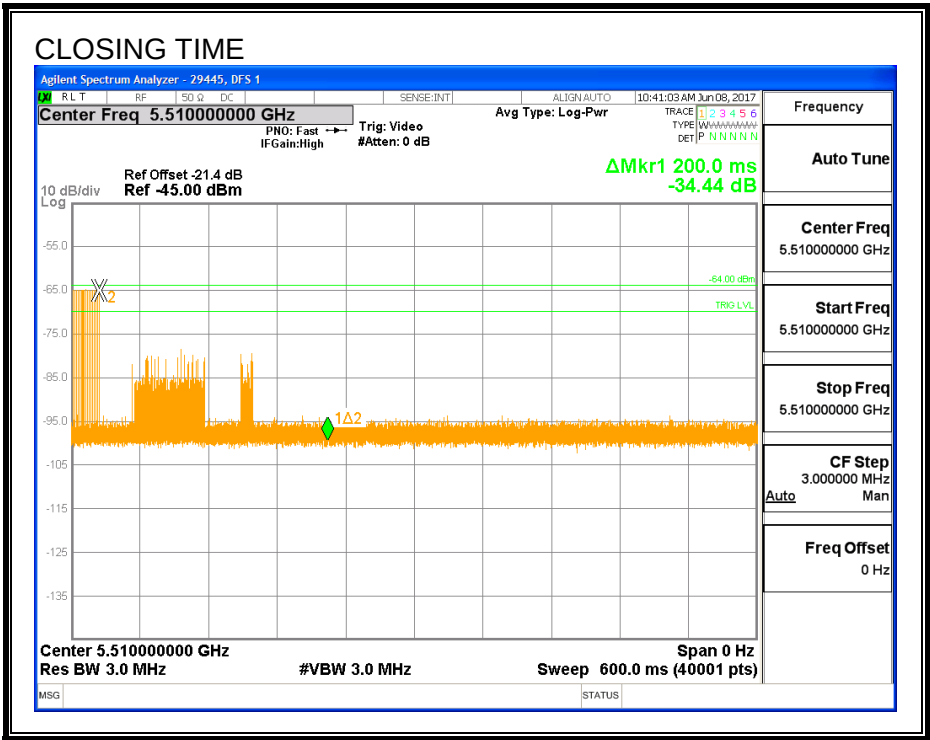
Channel Move Time (sec)	Limit (sec)
1.576	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
56.8	60

MOVE TIME

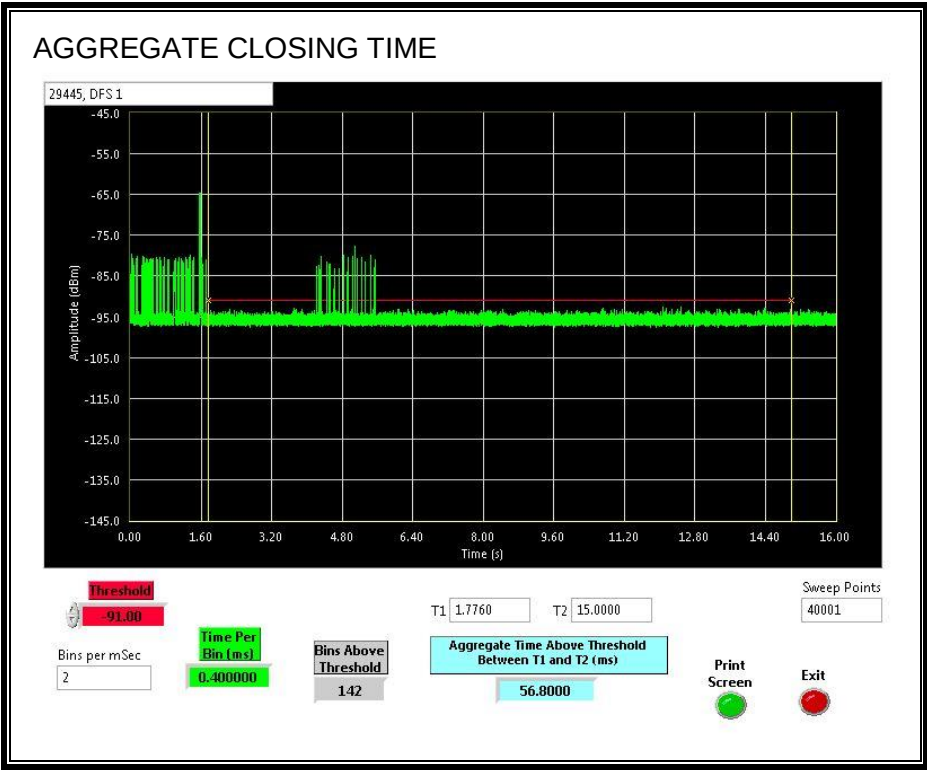


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



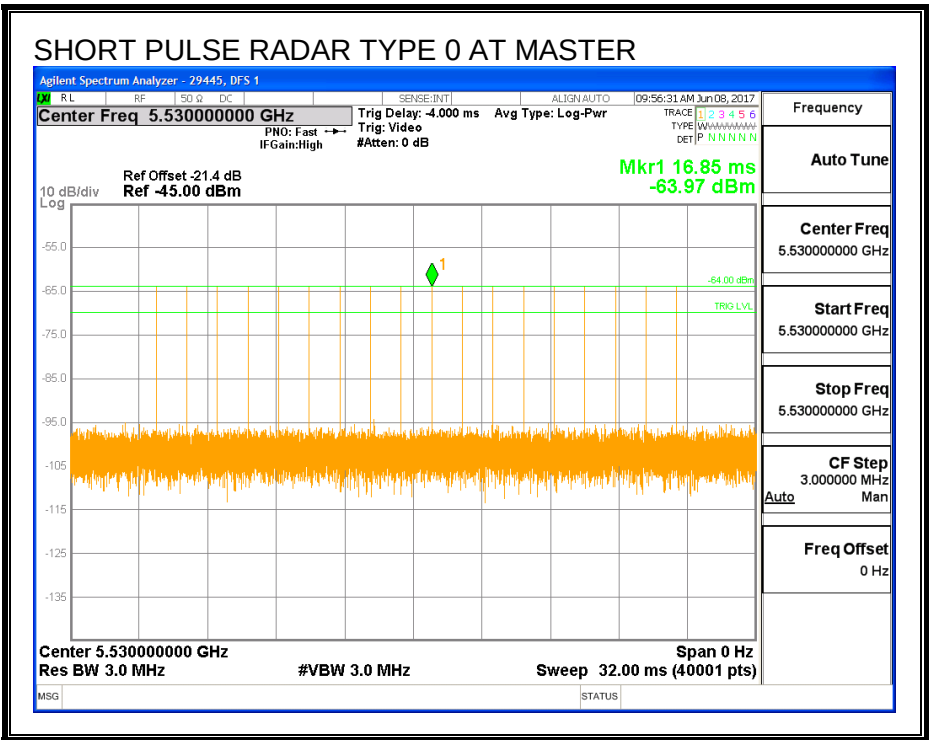
11.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

11.4.1. TEST CHANNEL

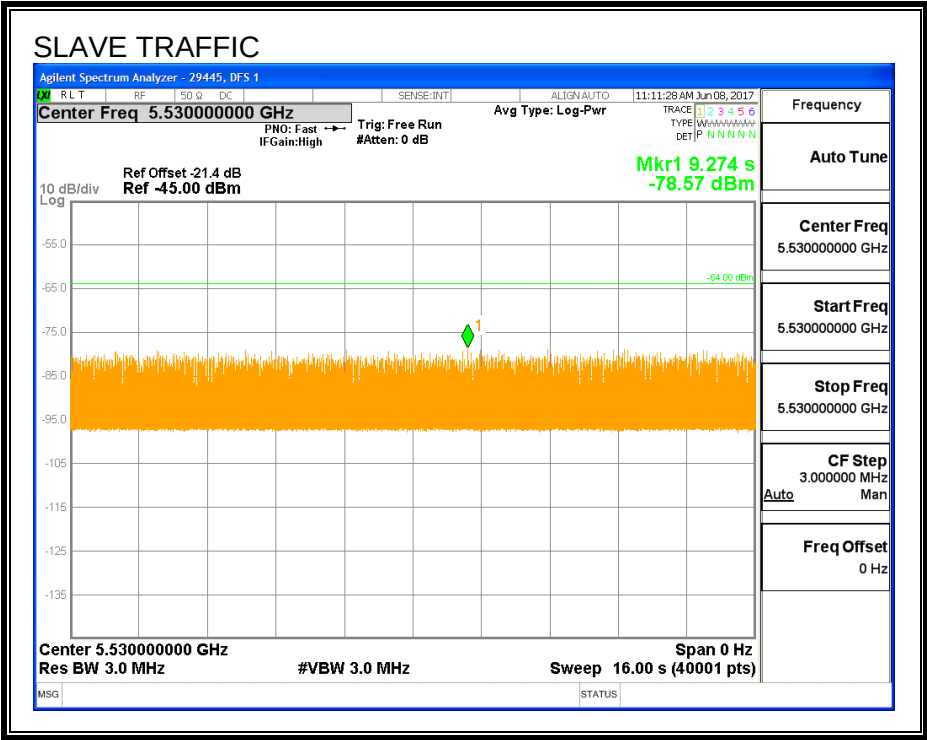
All tests were performed at a channel center frequency of 5530 MHz.

11.4.2. RADAR WAVEFORM AND TRAFFIC

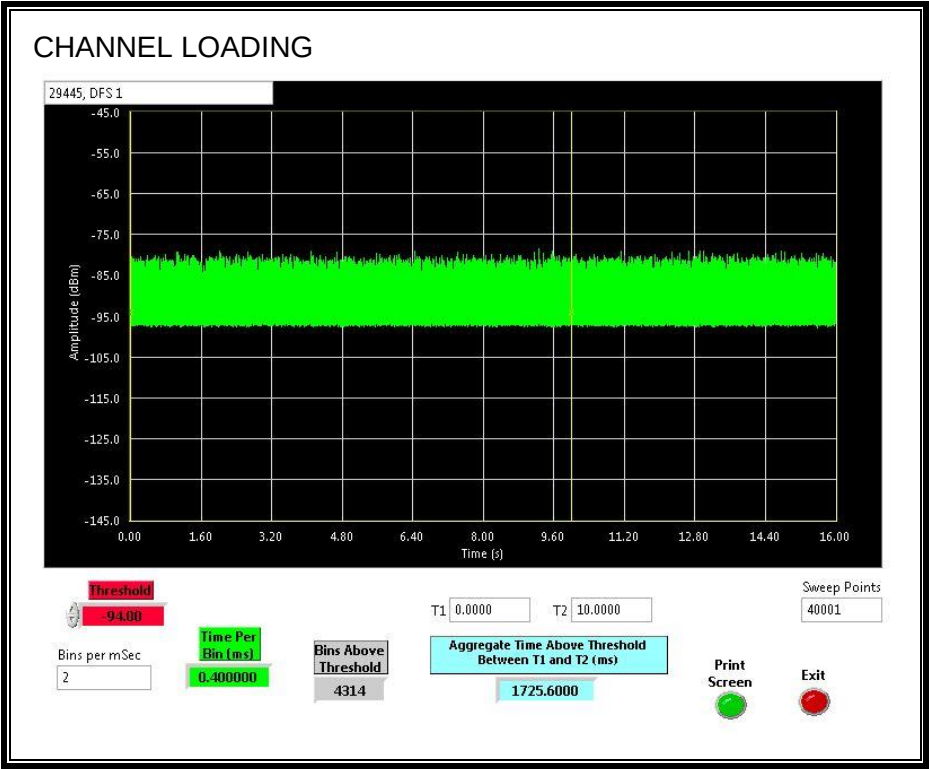
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.25%