

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 2.744	42.25	PK-U	32.3	-32.2	0	42.35	-	-	74	-31.65	-	-	97	226	H
	* 2.746	30.51	ADR	32.3	-32.3	.2	30.71	54	-23.29	-	-	-	-	97	226	H
2	* 4.245	40.75	PK-U	33.5	-29.6	0	44.65	-	-	74	-29.35	-	-	294	316	H
	* 4.247	29.38	ADR	33.5	-29.6	.2	33.48	54	-20.52	-	-	-	-	294	316	H
5	* 10.759	36.66	PK-U	37.6	-24.1	0	50.16	-	-	74	-23.84	-	-	340	353	H
	* 10.757	24.98	ADR	37.6	-24.1	.2	38.68	54	-15.32	-	-	-	-	340	353	H
3	* 10.978	36.64	PK-U	37.6	-22	0	52.24	-	-	74	-21.76	-	-	216	191	V
	* 10.978	25.02	ADR	37.6	-22	.2	40.82	54	-13.18	-	-	-	-	216	191	V
6	3.038	41.73	PK-U	32.8	-30.7	0	43.83	-	-	-	-	68.2	-24.37	127	365	H
4	3.157	42.41	PK-U	33.2	-31.4	0	44.21	-	-	-	-	68.2	-23.99	175	196	V

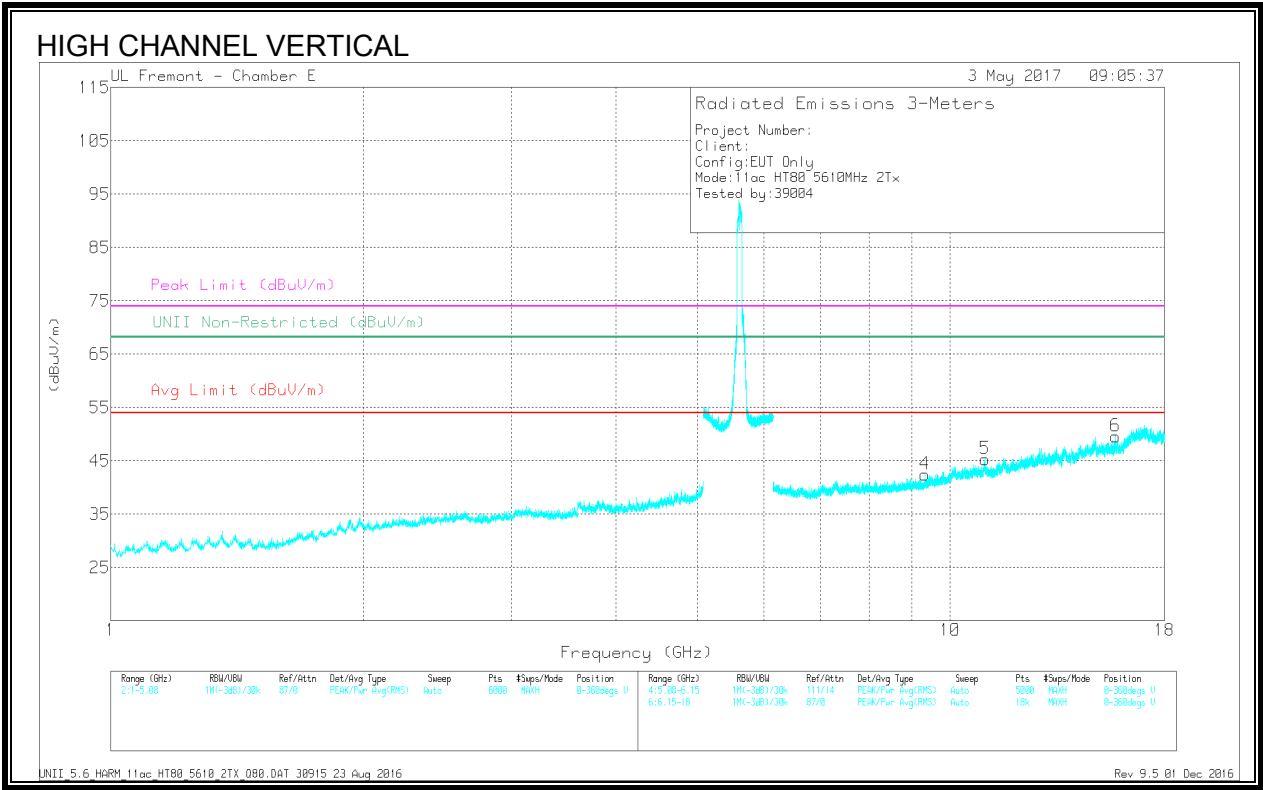
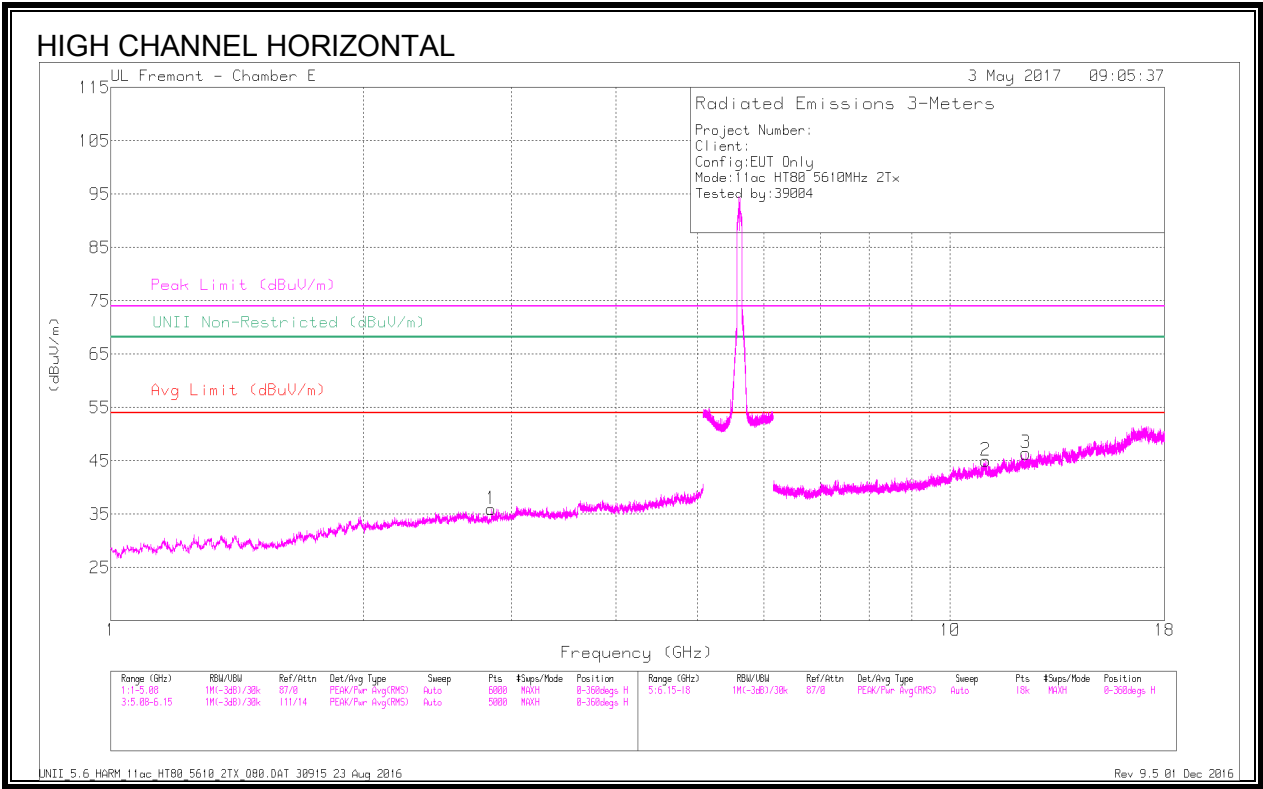
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 2.837	41.9	PK-U	32.3	-31.8	0	42.4	-	-	74	-31.6	-	-	147	301	H
	* 2.841	29.46	ADR	32.4	-31.8	.2	30.26	54	-23.74	-	-	-	-	147	301	H
2	* 11.031	36.07	PK-U	37.7	-23.1	0	50.67	-	-	74	-23.33	-	-	170	136	H
	* 11.034	25.39	ADR	37.7	-23.2	.2	40.09	54	-13.91	-	-	-	-	170	136	H
3	* 12.311	38.19	PK-U	39.2	-24.1	0	53.29	-	-	74	-20.71	-	-	199	145	H
	* 12.31	26.28	ADR	39.2	-24.1	.2	41.58	54	-12.42	-	-	-	-	199	145	H
4	* 9.338	37.79	PK-U	36.5	-25.9	0	48.39	-	-	74	-25.61	-	-	212	141	V
	* 9.339	26.68	ADR	36.5	-25.9	.2	37.48	54	-16.52	-	-	-	-	212	141	V
5	* 11.001	36.4	PK-U	37.7	-22.6	0	51.5	-	-	74	-22.5	-	-	162	155	V
	* 11.002	25.13	ADR	37.7	-22.7	.2	40.33	54	-13.67	-	-	-	-	162	155	V
6	* 15.762	37.9	PK-U	40.9	-23.3	0	55.5	-	-	74	-18.5	-	-	174	105	V
	* 15.765	26.37	ADR	40.9	-23.5	.2	43.97	54	-10.03	-	-	-	-	174	105	V

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

PK-U - U-NII: Maximum Peak

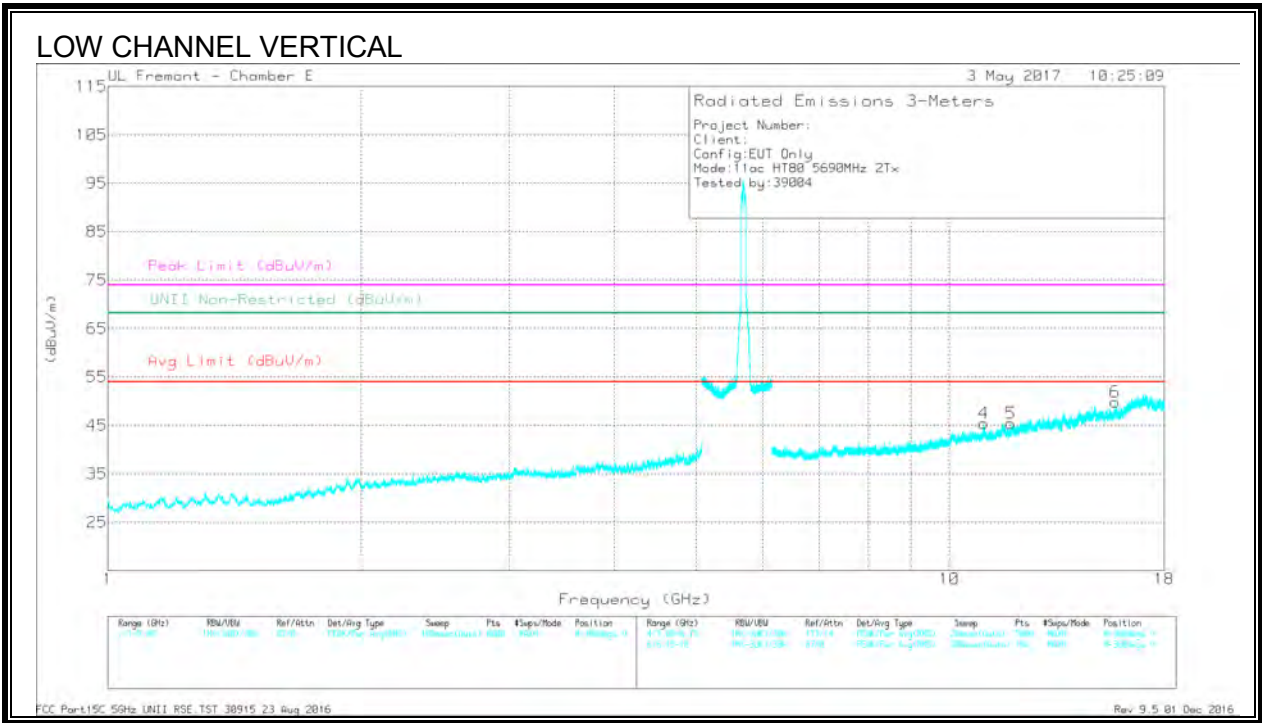
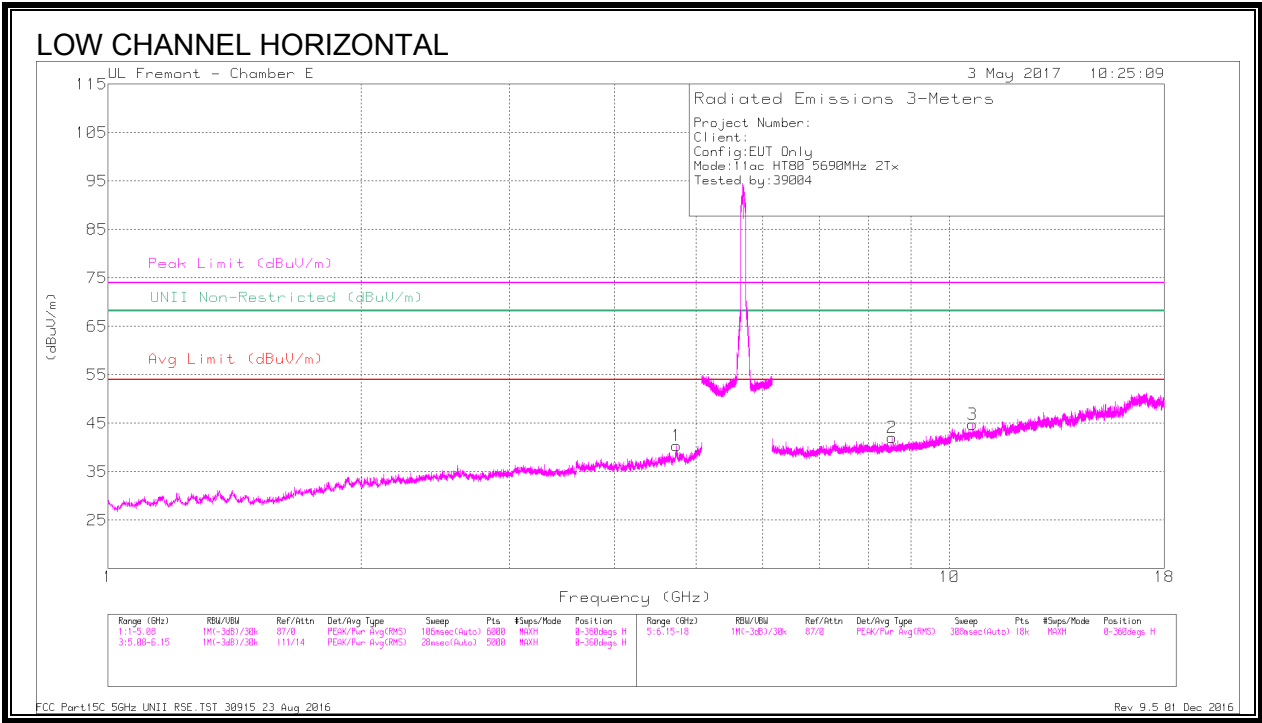
ADR - U-NII AD primary method, RMS average

UNII_5.6_HARM_11ac_HT80_5610_2TX_Q80.DAT 30915 23 Aug 2016

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9.1.30. 11ac HT80 2TX CDD MIMO STRADDLE CHANNEL 138

HARMONICS AND SPURIOUS EMISSIONS



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 4.744	40.87	PK-U	34.3	-29.1	0	46.07	-	-	74	-27.93	-	-	134	144	H
	* 4.744	29.38	ADR	34.3	-29.1	.2	34.78	54	-19.22	-	-	-	-	134	144	H
3	* 10.657	36.25	PK-U	37.6	-22.9	0	50.95	-	-	74	-23.05	-	-	191	254	H
	* 10.656	24.37	ADR	37.6	-23	.2	39.17	54	-14.83	-	-	-	-	191	254	H
4	* 10.994	36.28	PK-U	37.6	-22.3	0	51.58	-	-	74	-22.42	-	-	176	161	V
	* 10.994	24.45	ADR	37.6	-22.3	.2	39.95	54	-14.05	-	-	-	-	176	161	V
5	* 11.822	37.25	PK-U	38.6	-24.1	0	51.75	-	-	74	-22.25	-	-	342	134	V
	* 11.821	25.69	ADR	38.6	-24.1	.2	40.39	54	-13.61	-	-	-	-	342	134	V
6	* 15.736	37.26	PK-U	40.8	-21.8	0	56.26	-	-	74	-17.74	-	-	345	228	V
	* 15.737	25.72	ADR	40.8	-21.8	.2	44.92	54	-9.08	-	-	-	-	345	228	V
2	8.546	38.2	PK-U	36	-26.3	0	47.9	-	-	-	-	68.2	-20.3	215	112	H

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

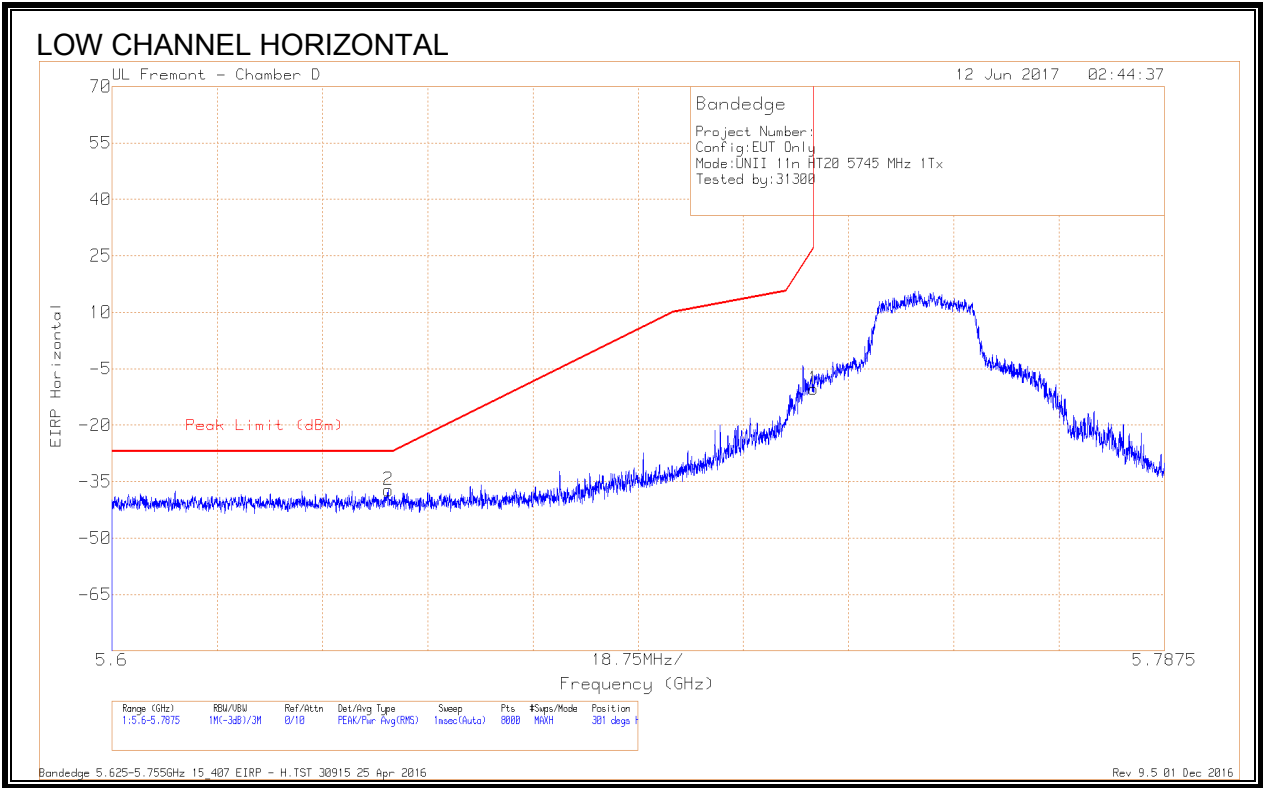
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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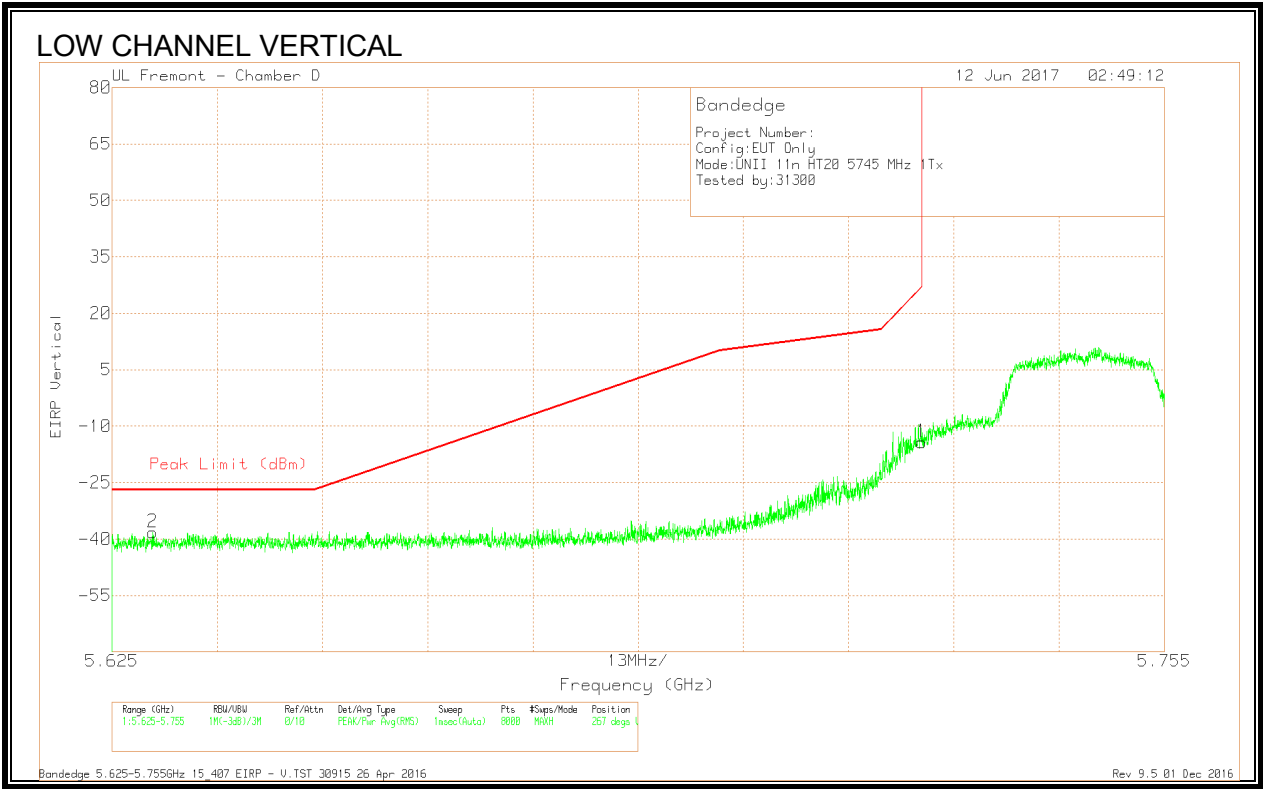
9.1.31. 11n HT20 UAT 2 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



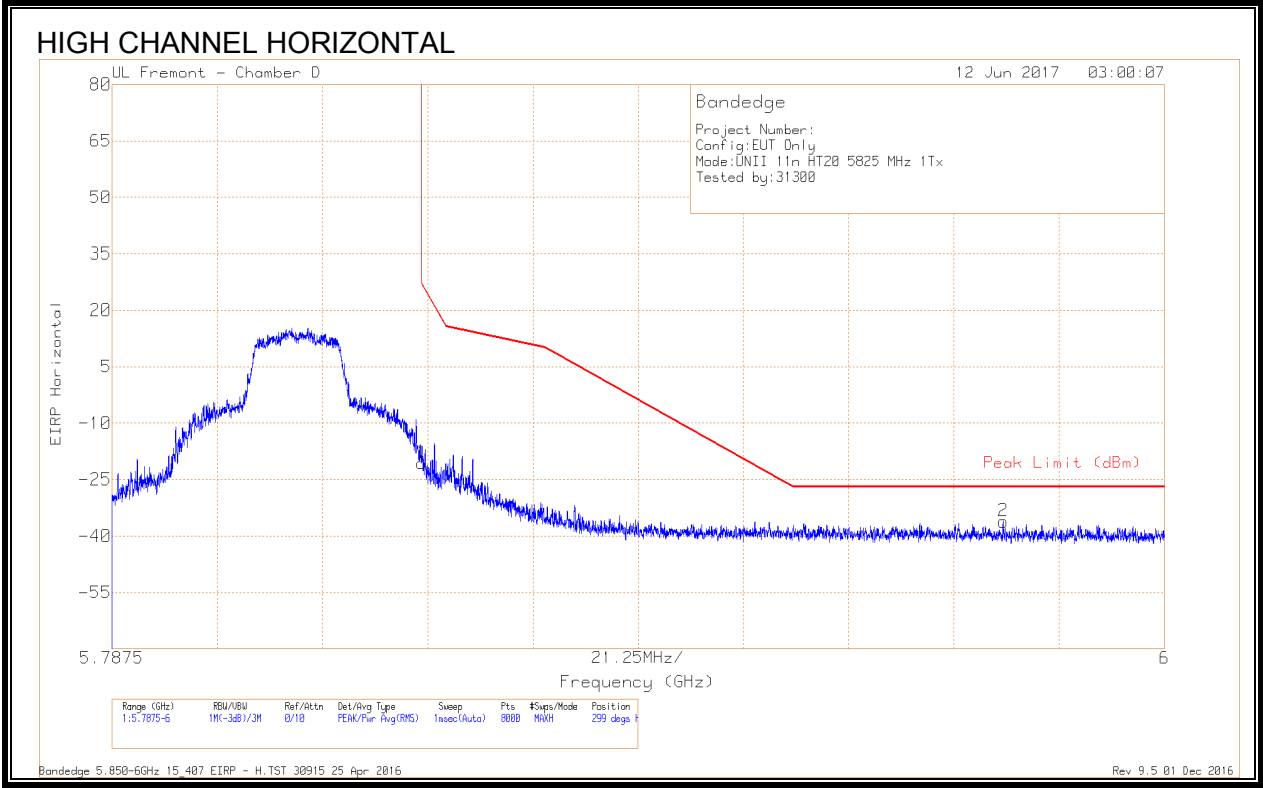
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Convers ion Factor (dB)	Correct ed Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-66.14	Pk	34.6	-17.5	11.8	-37.24	-27	-10.24	301	104	H
1	5.725	-39.27	Pk	34.6	-17.5	11.8	-10.37	26.96	-37.33	301	104	H

Pk - Peak detector



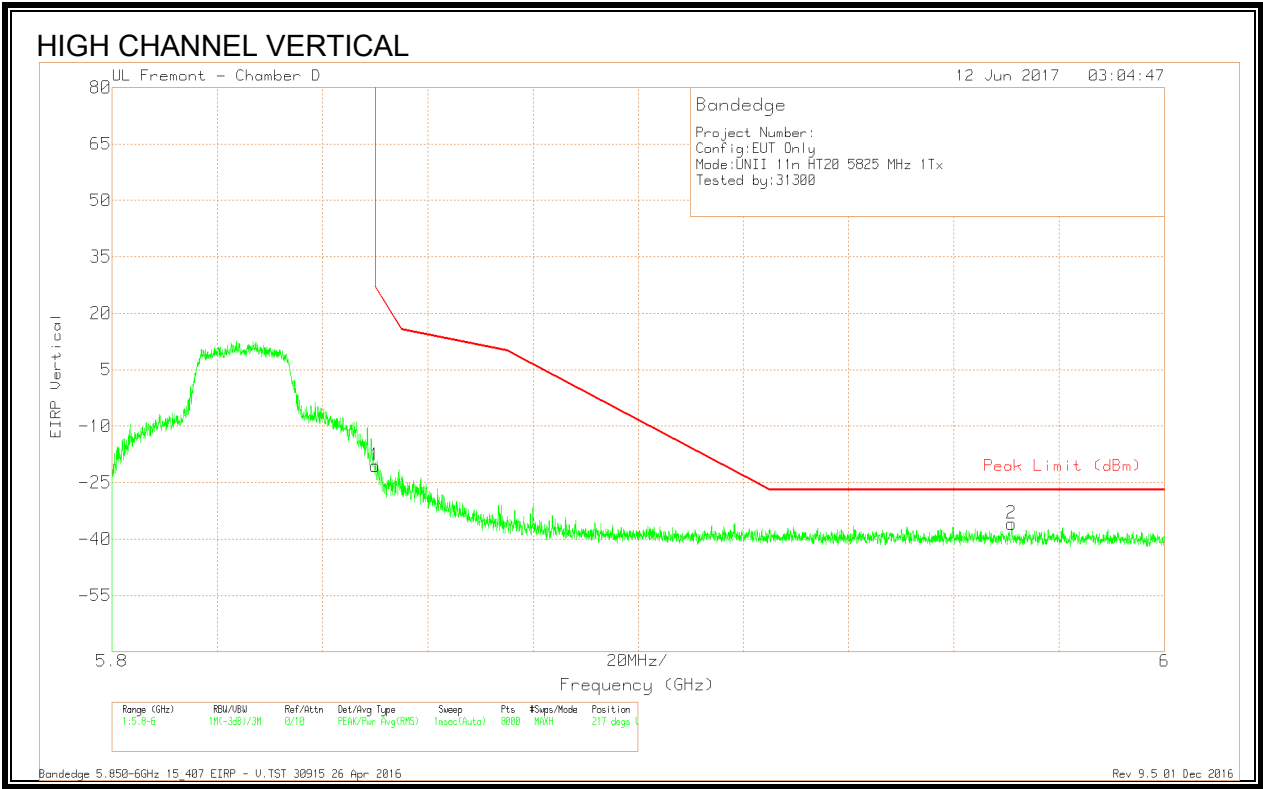
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Fltr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63	-66.99	Pk	34.6	-17.6	11.8	-38.19	-27	-11.19	267	144	V
1	5.725	-43.16	Pk	34.6	-17.5	11.8	-14.26	27	-41.26	267	144	V

Pk - Peak detector



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.9	Pk	35	-17.5	11.8	-20.6	26.98	-47.58	299	101	H
2	5.967	-65.61	Pk	35.1	-17.4	11.8	-36.11	-27	-9.11	299	101	H

Pk - Peak detector

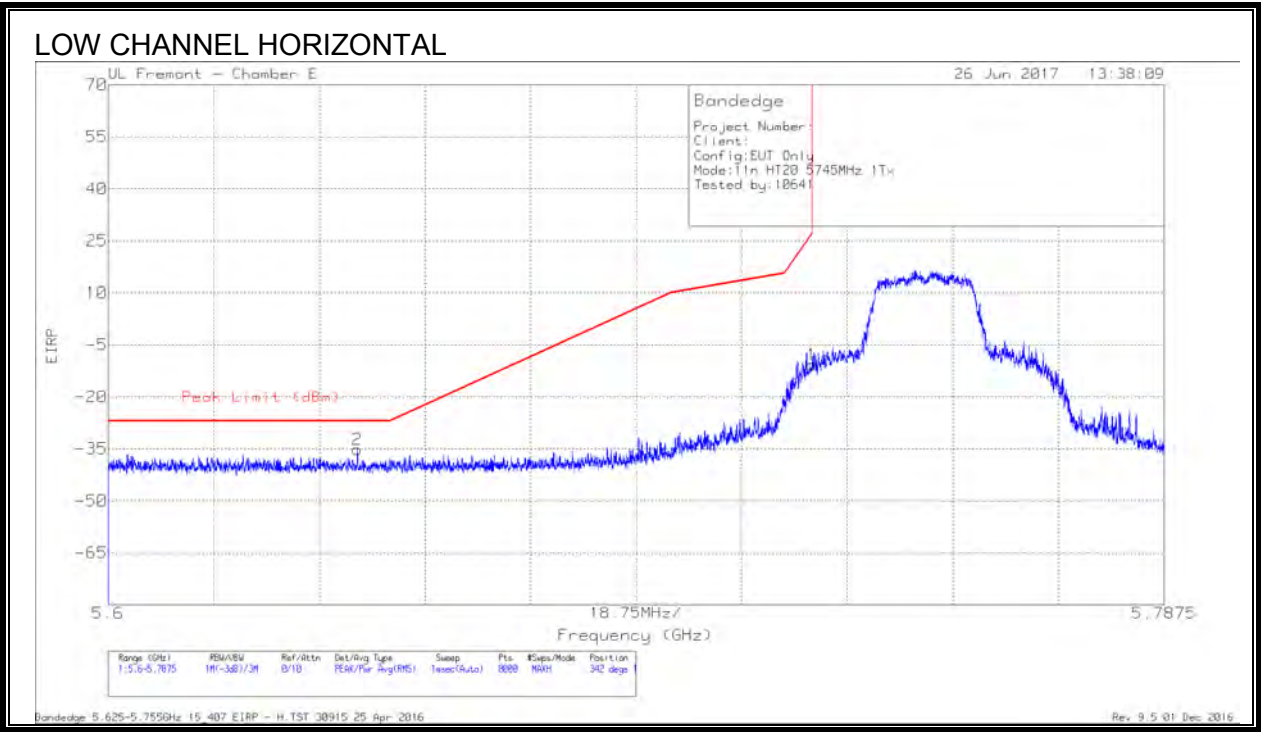


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.82	Pk	35	-17.5	11.8	-20.52	26.99	-47.51	217	101	V
2	5.971	-65.45	Pk	35.1	-17.4	11.8	-35.95	-27	-8.95	217	101	V

Pk - Peak detector

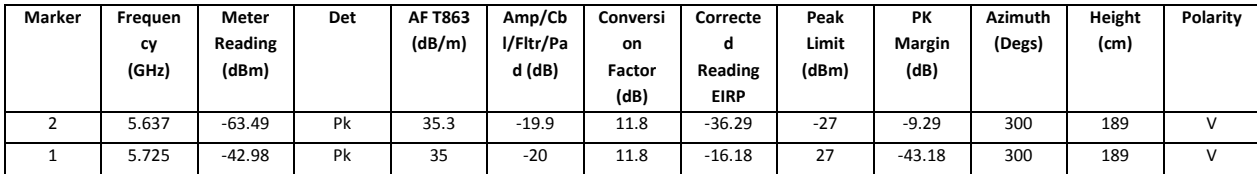
9.1.32. 11n HT20 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)

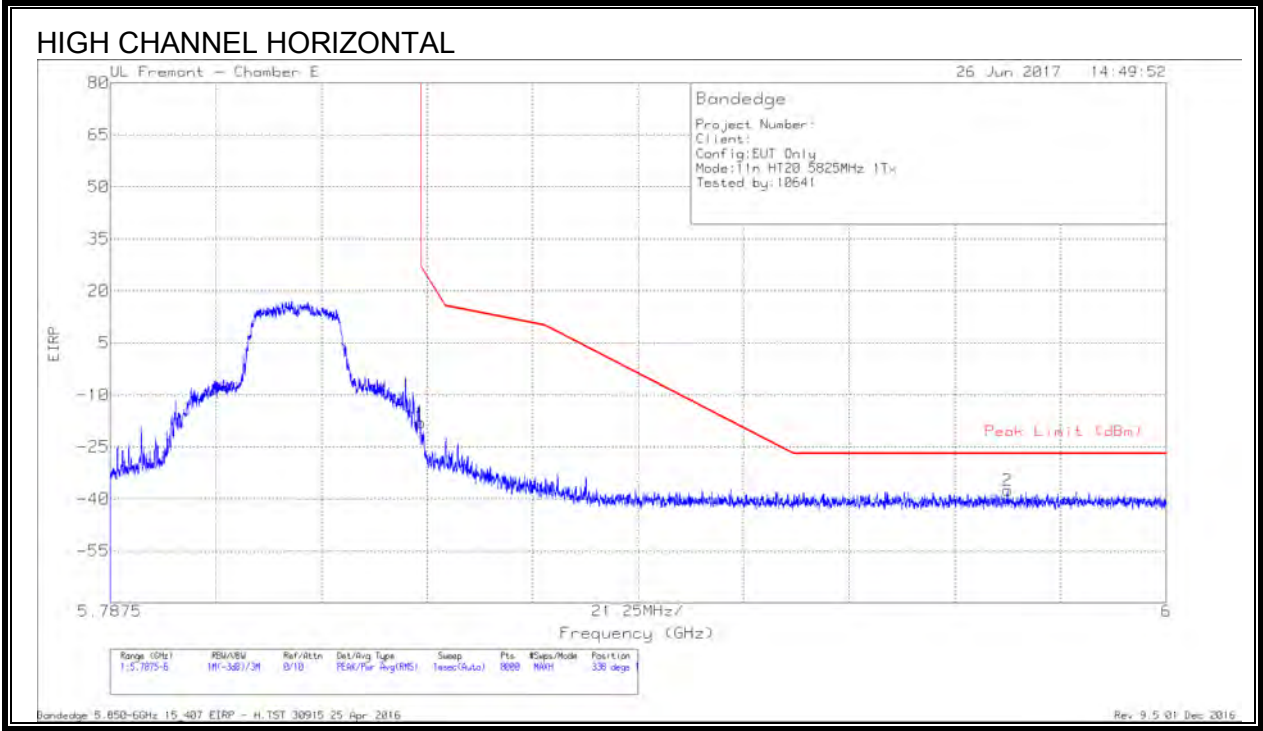


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-62.4	Pk	35.3	-19.9	11.8	-35.2	-27	-8.2	342	192	H
1	5.725	-37.5	Pk	35	-20	11.8	-10.7	26.96	-37.66	342	192	H

Pk - Peak detector
Bandedge 5.625-5.755GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
Rev 9.5 01 Dec 2016

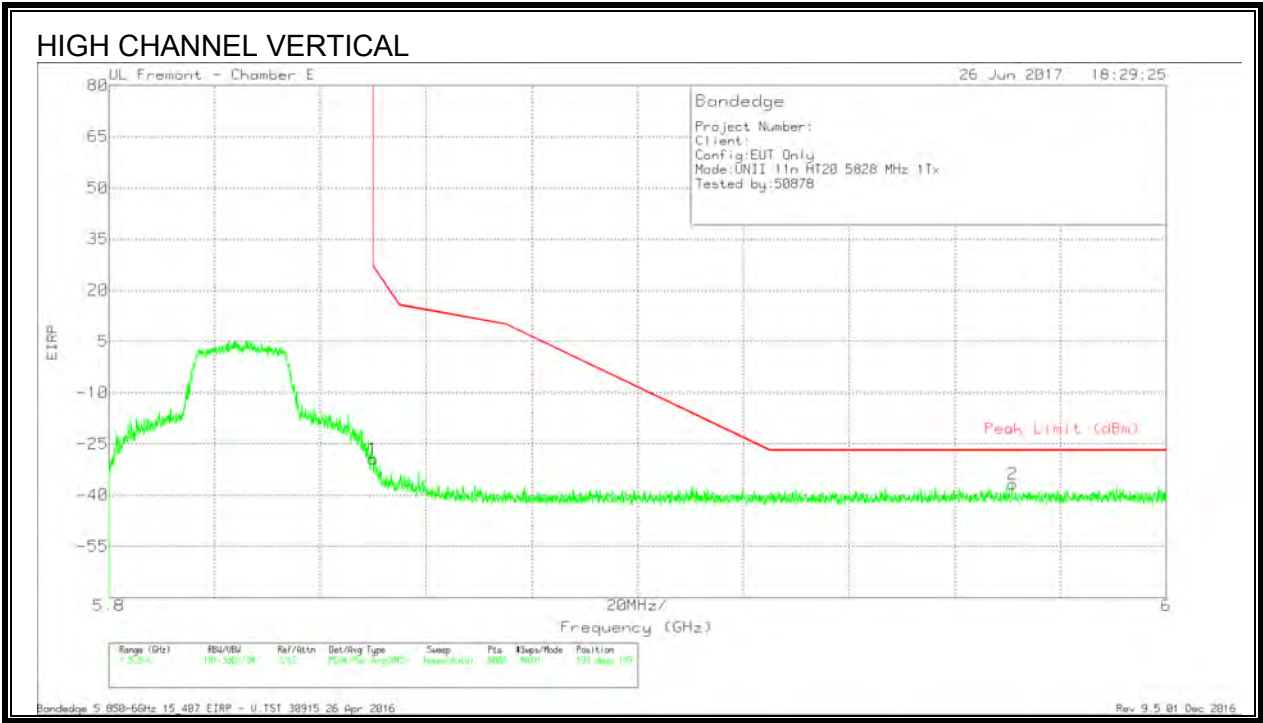


Bandedge 5.625-5.755GHz 15_407 EIRP - V.TST 30915 26 Apr 2016
Rev 9.5 01 Dec 2016



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T863 (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	-44.58	Pk	35.1	-20.3	11.8	-17.98	26.98	-44.96	338	127	H
2	5.968	-64.69	Pk	35.3	-19.9	11.8	-37.49	-27	-10.49	338	127	H

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
Rev 9.5 01 Dec 2016

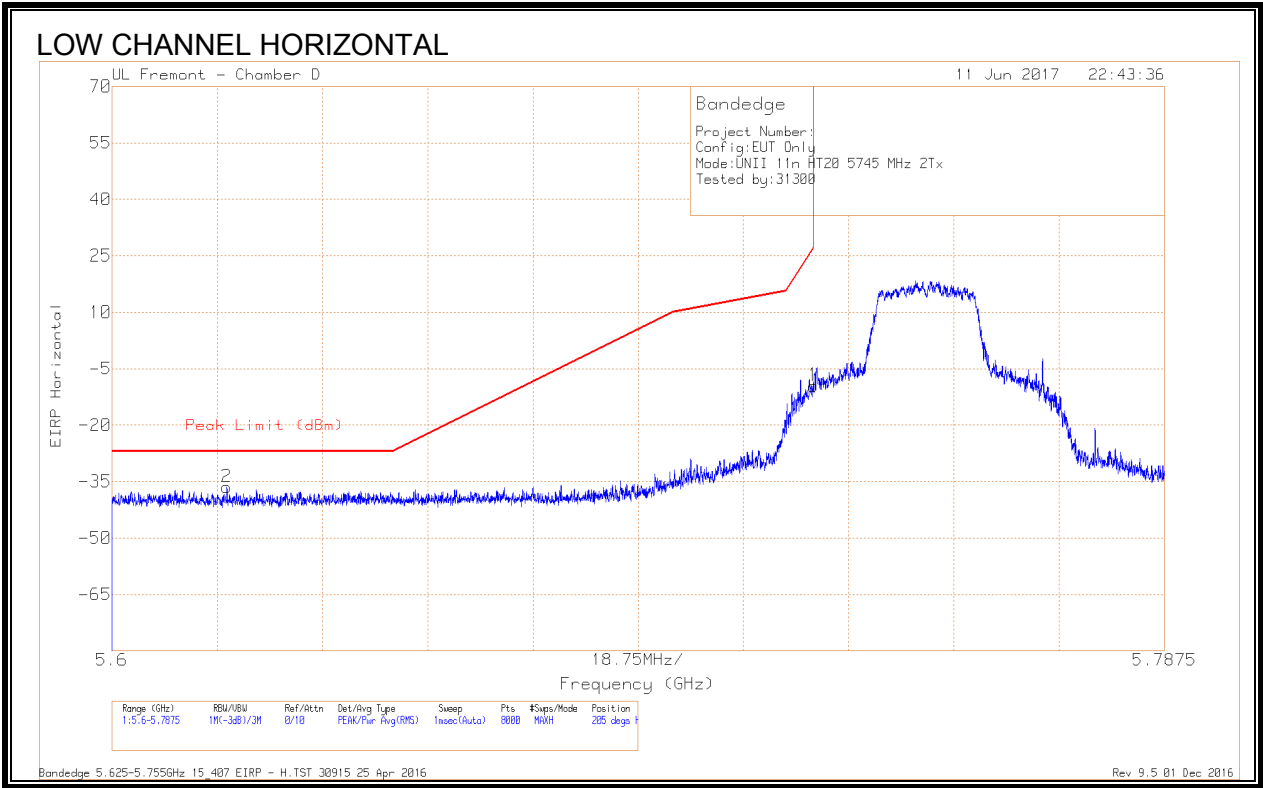


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-56.81	Pk	35.1	-19.5	11.8	-29.41	26.99	-56.4	193	189	V
2	5.971	-64.98	Pk	35.3	-18.9	11.8	-36.78	-27	-9.78	193	189	V

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

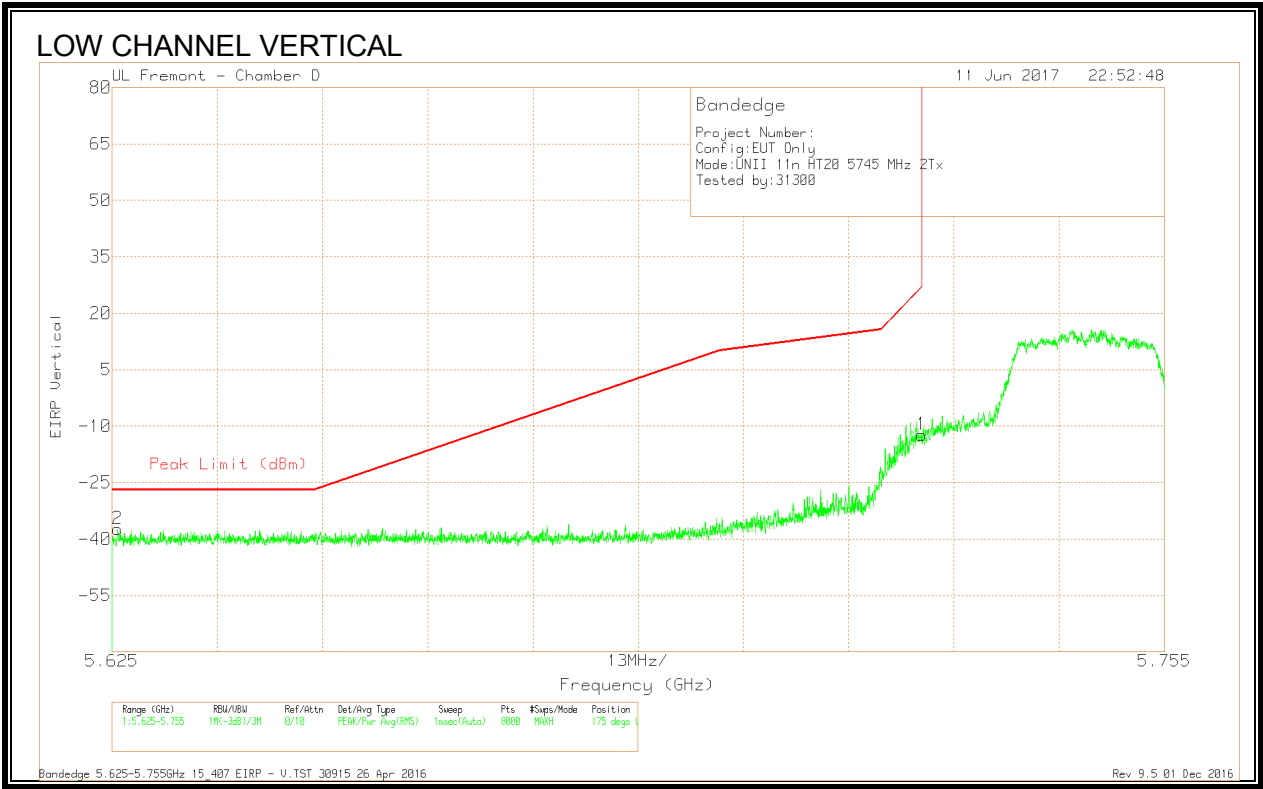
9.1.33. 11n HT20 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



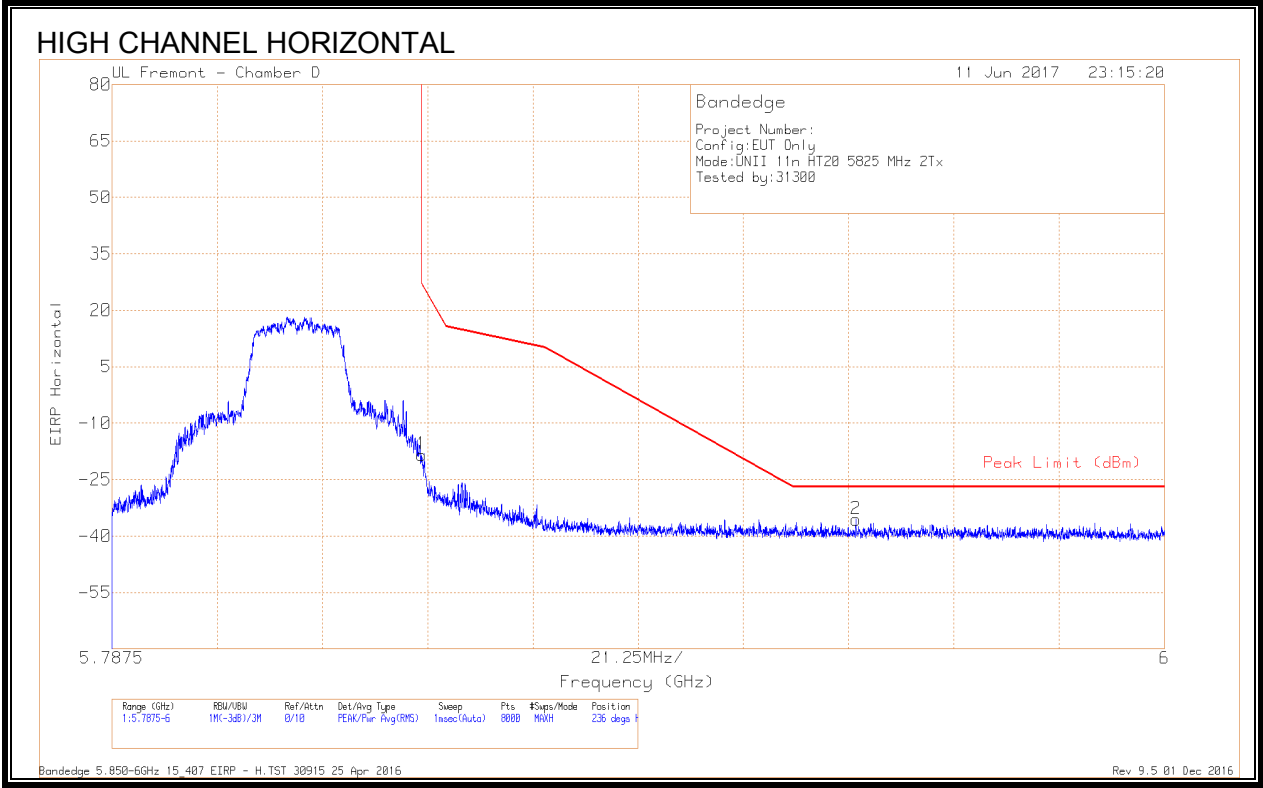
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62	-65.07	Pk	34.6	-17.8	11.8	-36.47	-27	-9.47	205	257	H
1	5.725	-38.47	Pk	34.6	-17.5	11.8	-9.57	26.96	-36.53	205	257	H

Pk - Peak detector



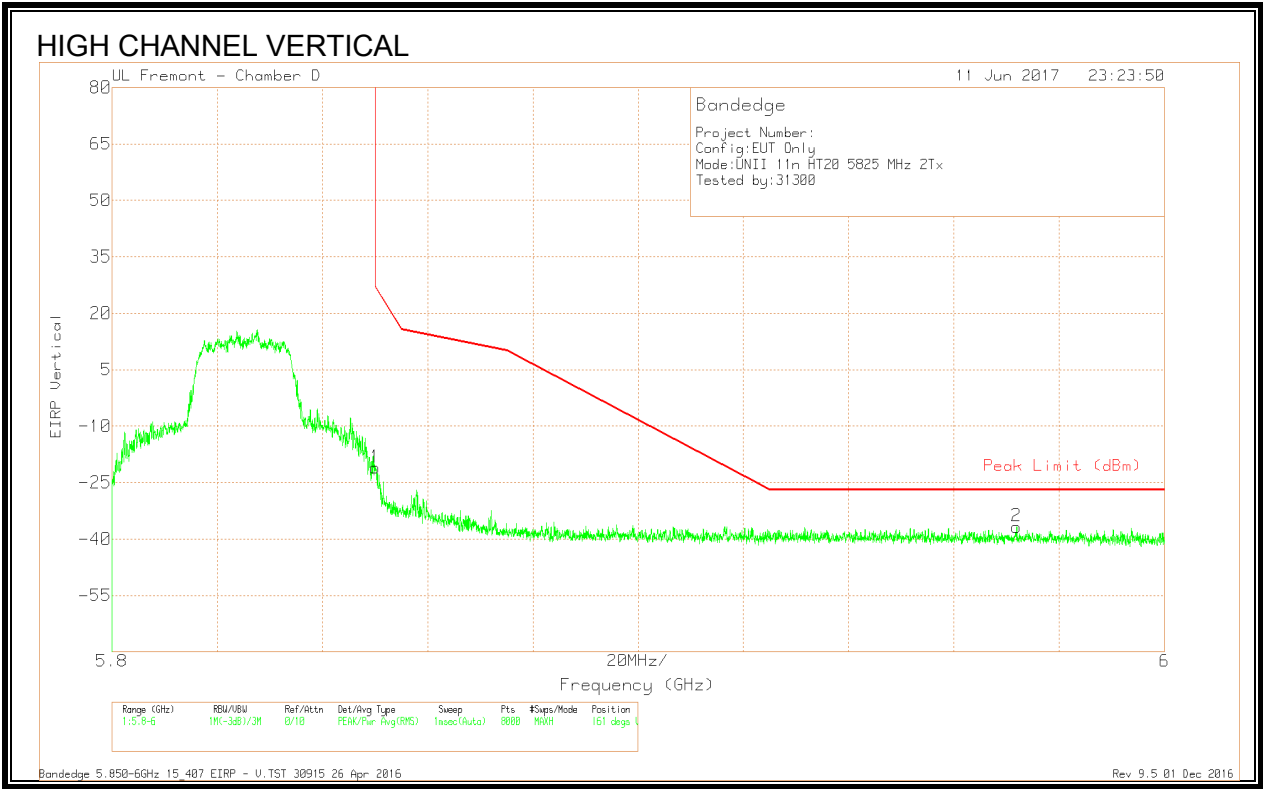
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Fltr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626	-66.04	Pk	34.6	-17.7	11.8	-37.34	-27	-10.34	175	318	V
1	5.725	-41.24	Pk	34.6	-17.5	11.8	-12.34	27	-39.34	175	318	V

Pk - Peak detector



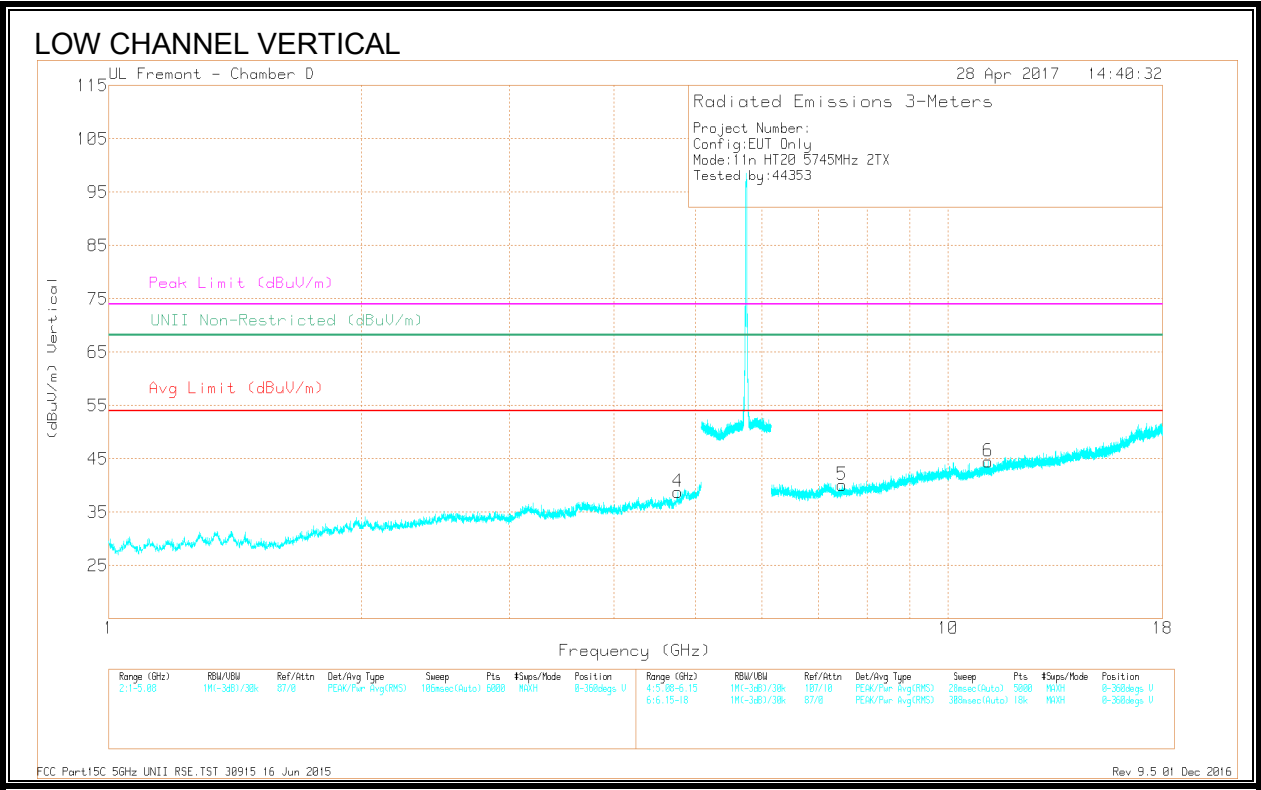
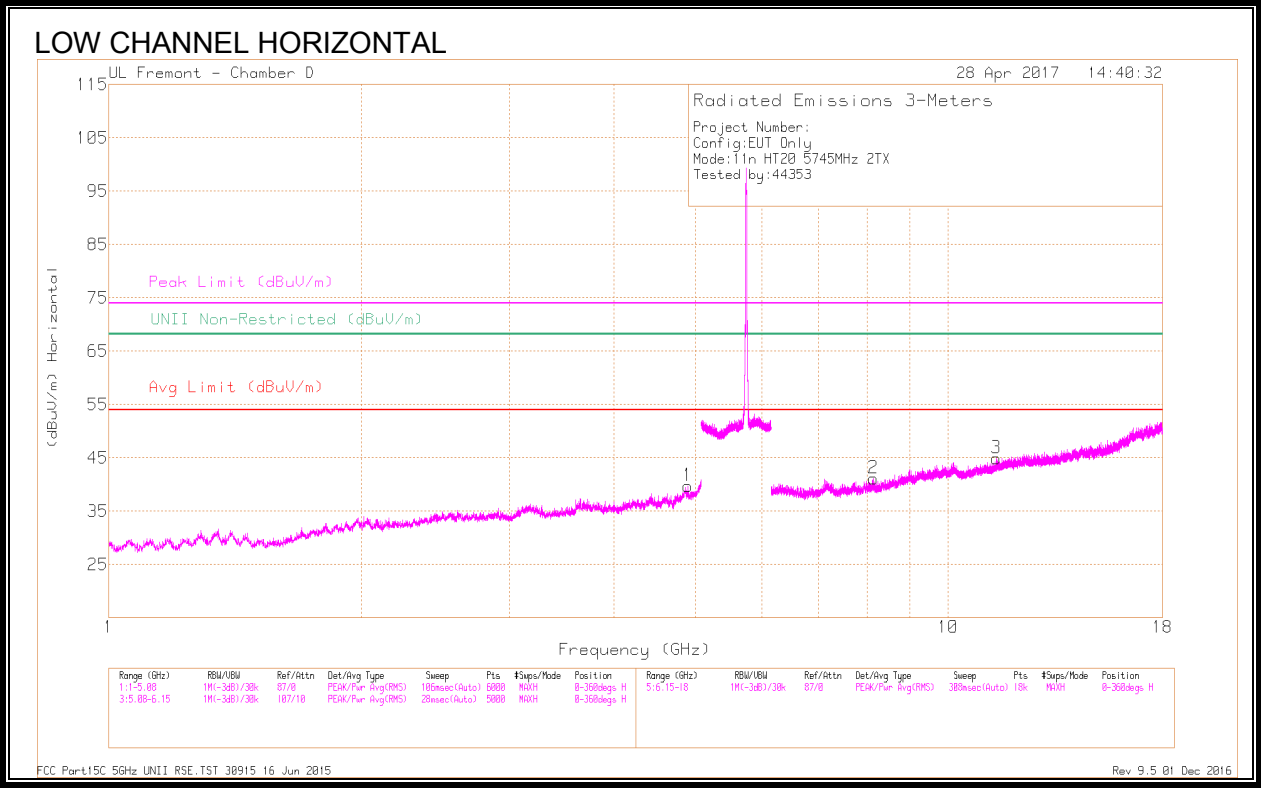
Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-47.68	Pk	35	-17.5	11.8	-18.38	26.98	-45.36	236	259	H
2	5.938	-64.97	Pk	35	-17.4	11.8	-35.57	-27	-8.57	236	259	H

Pk - Peak detector



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-50.3	Pk	35	-17.5	11.8	-21	26.99	-47.99	161	323	V
2	5.972	-66.19	Pk	35.1	-17.4	11.8	-36.69	-27	-9.69	161	323	V

Pk - Peak detector



Marker	Frequenc y (GHz)	Mete r Readi ng (dBu V)	Det	AF T862 (dB/m)	Amp/C bl/Fitr/ 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)	Polarit y
1	* 4.895	36.93	PK-U	34.2	-25.4	0	45.73	-	-	74	-28.27	-	-	165	200	H
	* 4.894	25.55	ADR	34.1	-25.4	1.74	35.99	54	-18.01	-	-	-	-	165	200	H
4	* 4.763	38.93	PK-U	34	-27.3	0	45.63	-	-	74	-28.37	-	-	267	305	V
	* 4.76	27.4	ADR	34	-27.3	1.74	35.84	54	-18.16	-	-	-	-	267	305	V
2	* 8.145	35.14	PK-U	35.9	-23.9	0	47.14	-	-	74	-26.86	-	-	110	144	H
	* 8.146	24.21	ADR	35.9	-23.9	1.74	37.95	54	-16.05	-	-	-	-	110	144	H
3	* 11.421	34.37	PK-U	38.2	-21.3	0	51.27	-	-	74	-22.73	-	-	38	121	H
	* 11.417	23.03	ADR	38.2	-21.2	1.74	41.77	54	-12.23	-	-	-	-	38	121	H
5	* 7.474	35.71	PK-U	35.7	-24.6	0	46.81	-	-	74	-27.19	-	-	154	283	V
	* 7.478	24.32	ADR	35.7	-24.6	1.74	37.16	54	-16.84	-	-	-	-	154	283	V
6	* 11.153	34.49	PK-U	37.8	-21.5	0	50.79	-	-	74	-23.21	-	-	66	128	V
	* 11.154	23.11	ADR	37.8	-21.5	1.74	41.15	54	-12.85	-	-	-	-	66	128	V

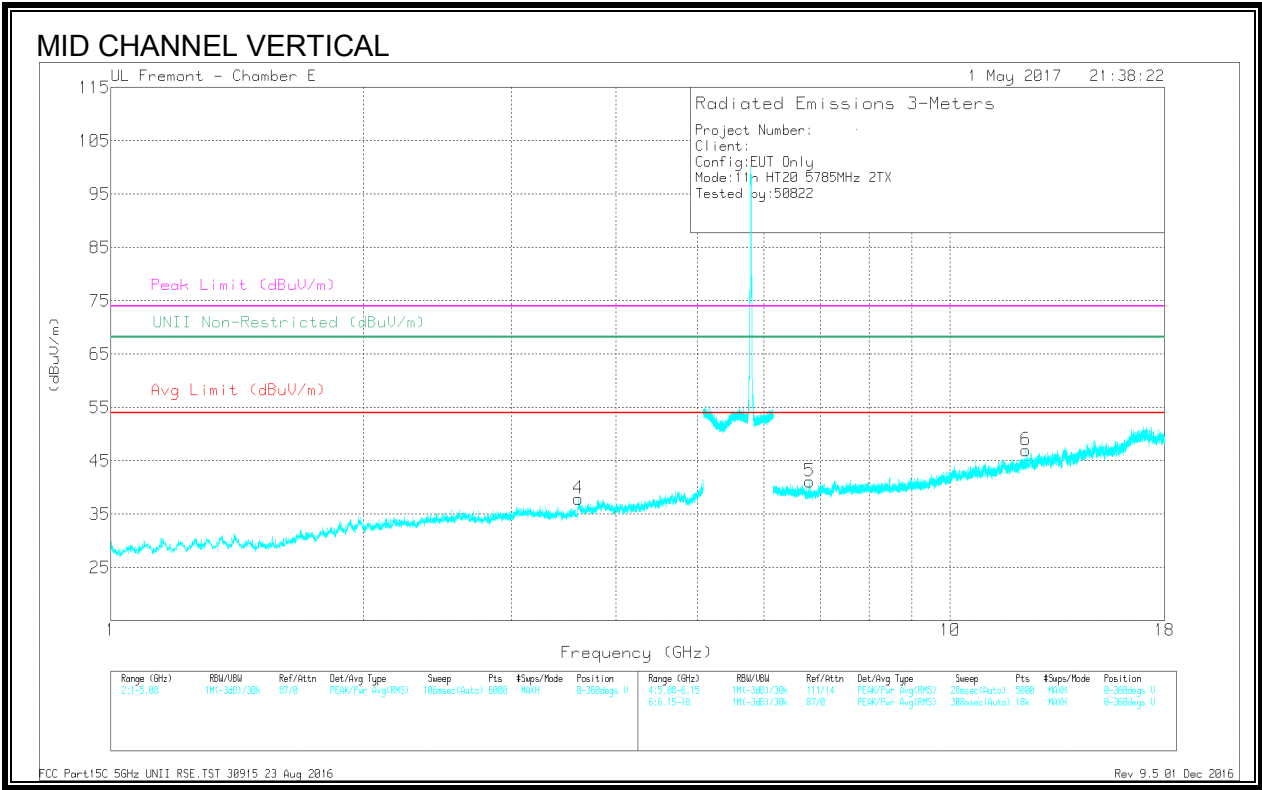
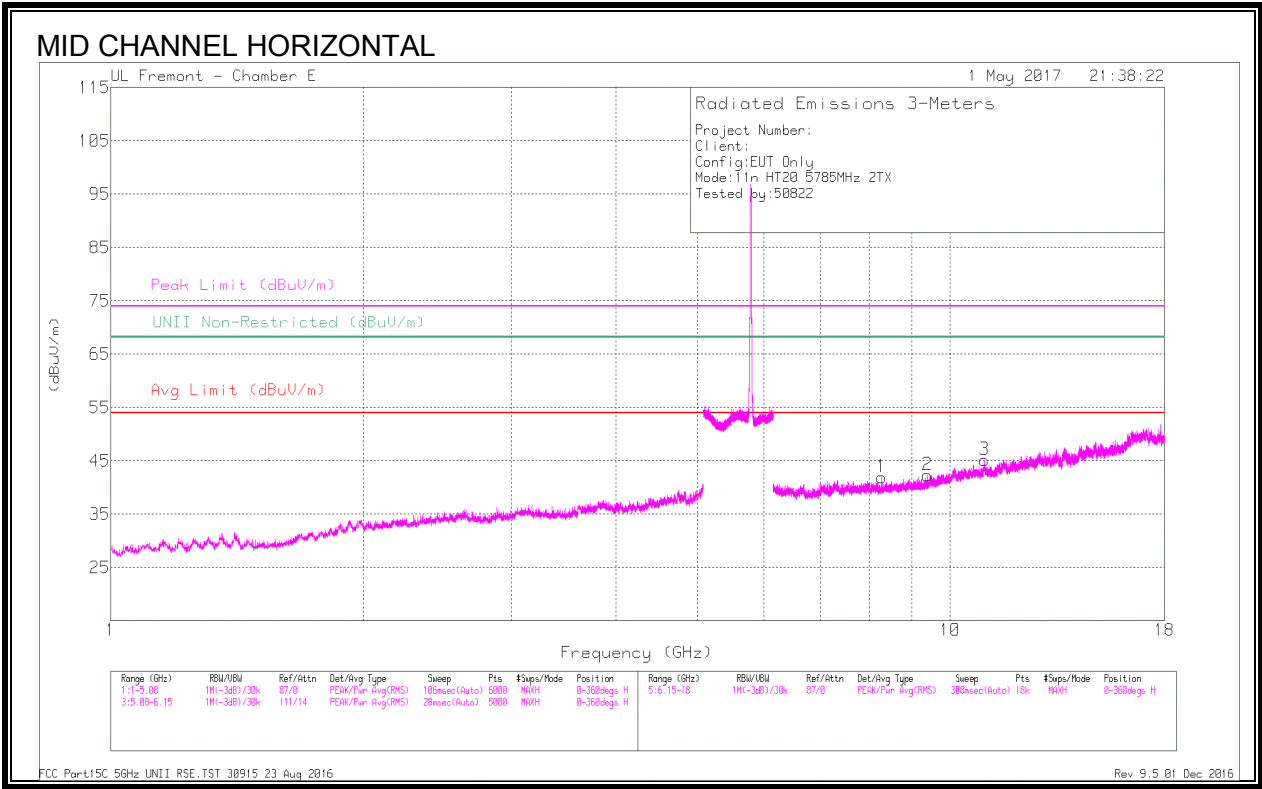
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 16 Jun 2015

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Marker	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (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)	Azimet h (Degs)	Height (cm)	Polarity
4	* 3.606	41.69	PK-U	32.9	-30.5	44.09	-	-	74	-29.91	-	-	129	253	V
	* 3.606	29.84	ADR	32.9	-30.6	32.14	54	-21.86	-	-	-	-	129	253	V
1	* 8.289	39.54	PK-U	36.1	-27	48.64	-	-	74	-25.36	-	-	7	244	H
	* 8.291	27.01	ADR	36.1	-27.1	36.01	54	-17.99	-	-	-	-	7	244	H
2	* 9.389	38.29	PK-U	36.5	-26.2	48.59	-	-	74	-25.41	-	-	125	138	H
	* 9.388	26.24	ADR	36.5	-26.2	36.54	54	-17.46	-	-	-	-	125	138	H
3	* 10.989	37.02	PK-U	37.6	-22.1	52.52	-	-	74	-21.48	-	-	142	399	H
	* 10.989	24.51	ADR	37.6	-22.1	40.01	54	-13.99	-	-	-	-	142	399	H
6	* 12.312	37.11	PK-U	39.2	-24	52.31	-	-	74	-21.69	-	-	36	333	V
	* 12.314	25.52	ADR	39.2	-24	40.72	54	-13.28	-	-	-	-	36	333	V
5	6.794	27.59	ADR	35.6	-28.3	34.89	-	-	-	-	-	-	18	276	V
	6.795	39.39	PK-U	35.6	-28.3	46.69	-	-	-	-	68.2	-21.51	18	276	V

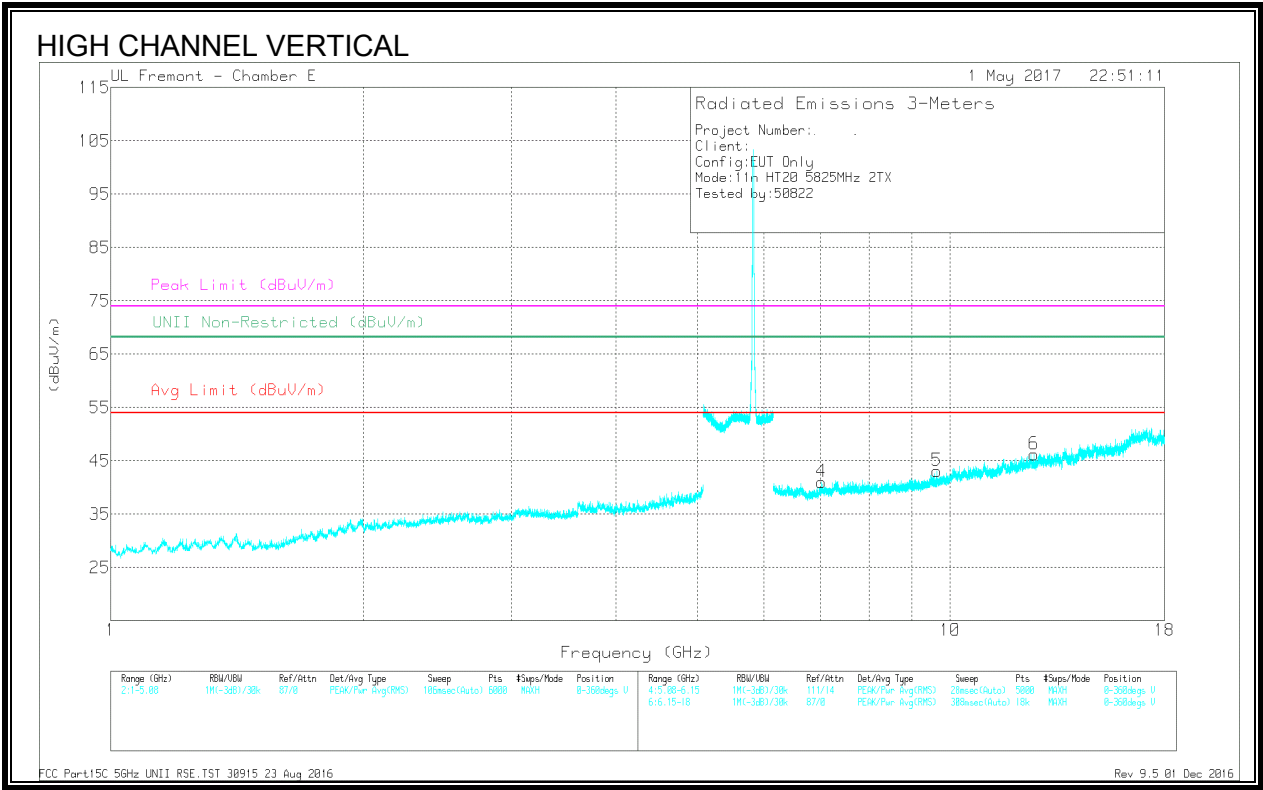
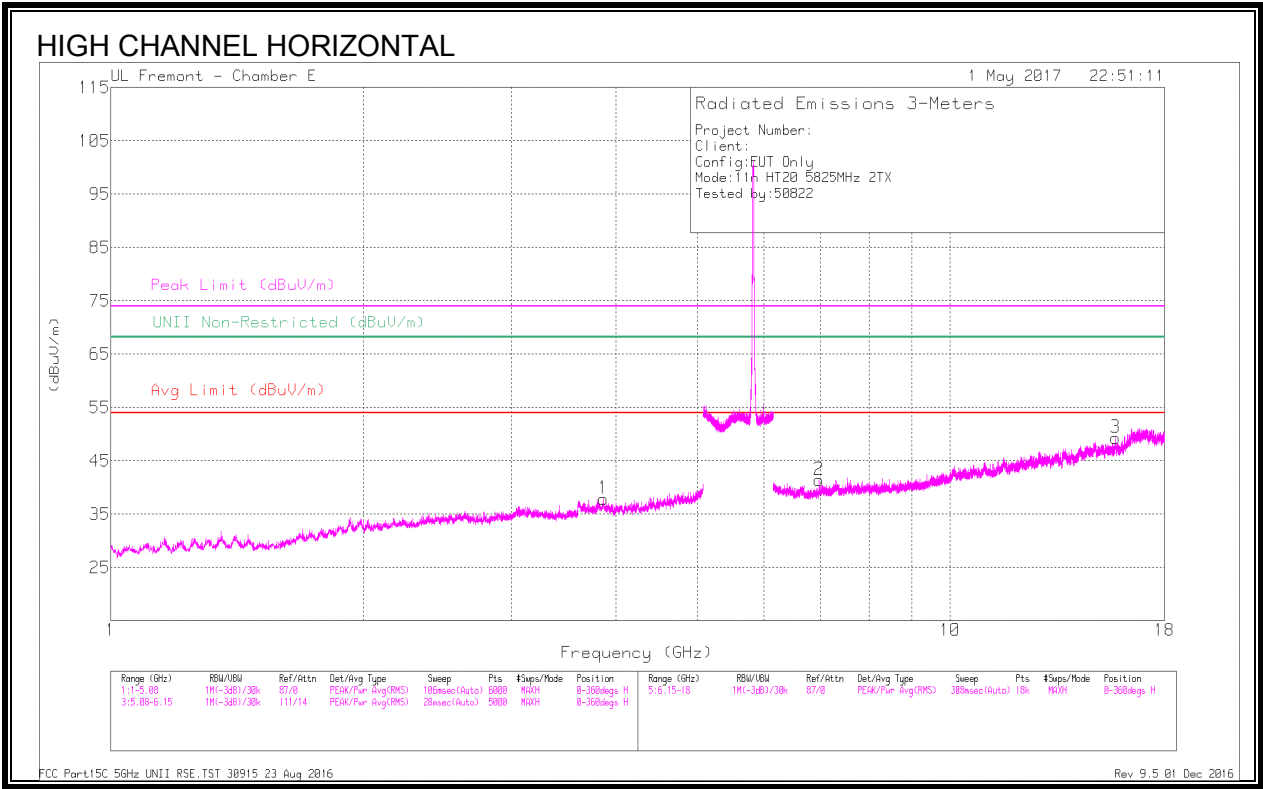
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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Marker	Frequen cy (GHz)	Meter Readi ng (dBuV)	Det	AF T863 (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)	Azimut h (Degs)	Height (cm)	Polarit y
1	* 3.866	41.65	PK-U	33.4	-29.7	45.35	-	-	74	-28.65	-	-	111	332	H
	* 3.866	29.92	ADR	33.4	-29.7	33.62	54	-20.38	-	-	-	-	111	332	H
3	* 15.73	36.51	PK-U	40.8	-21.7	55.61	-	-	74	-18.39	-	-	2	137	H
	* 15.731	24.83	ADR	40.8	-21.6	44.03	54	-9.97	-	-	-	-	2	137	H
6	* 12.589	37.94	PK-U	39.6	-25.2	52.34	-	-	74	-21.66	-	-	183	171	V
	* 12.588	26.27	ADR	39.5	-25.2	40.57	54	-13.43	-	-	-	-	183	171	V
2	6.974	39.67	PK-U	35.7	-27.7	47.67	-	-	-	-	68.2	-20.53	135	317	H
	6.976	27.67	ADR	35.7	-27.6	35.77	-	-	-	-	-	-	135	317	H
4	7.032	38.71	PK-U	35.7	-27	47.41	-	-	-	-	68.2	-20.79	7	289	V
	7.033	27.34	ADR	35.7	-27	36.04	-	-	-	-	-	-	7	289	V
5	9.646	25.64	ADR	36.7	-25	37.34	-	-	-	-	-	-	293	234	V
	9.648	37.59	PK-U	36.7	-25	49.29	-	-	-	-	68.2	-18.91	293	234	V

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

PK-U - U-NII: Maximum Peak

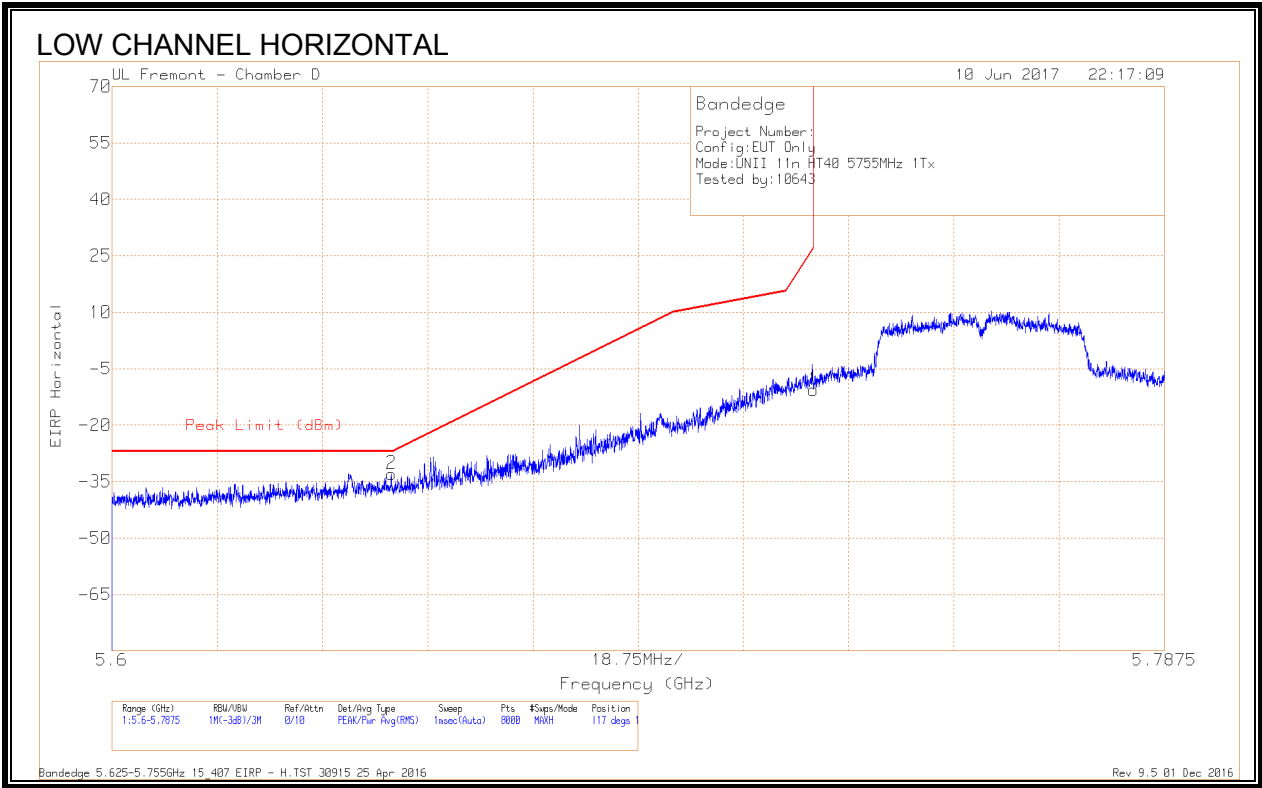
ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 23 Aug 2016

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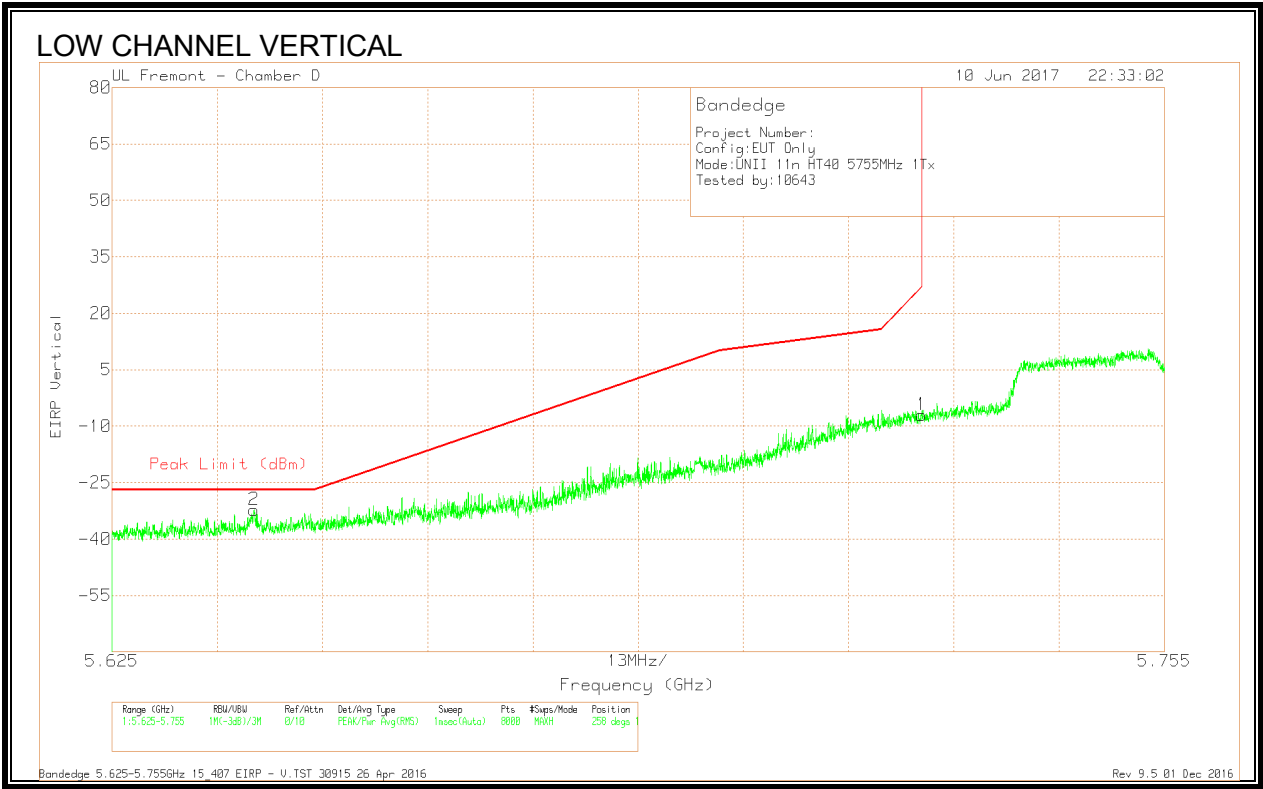
9.1.34. 11n HT40 UAT 2 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



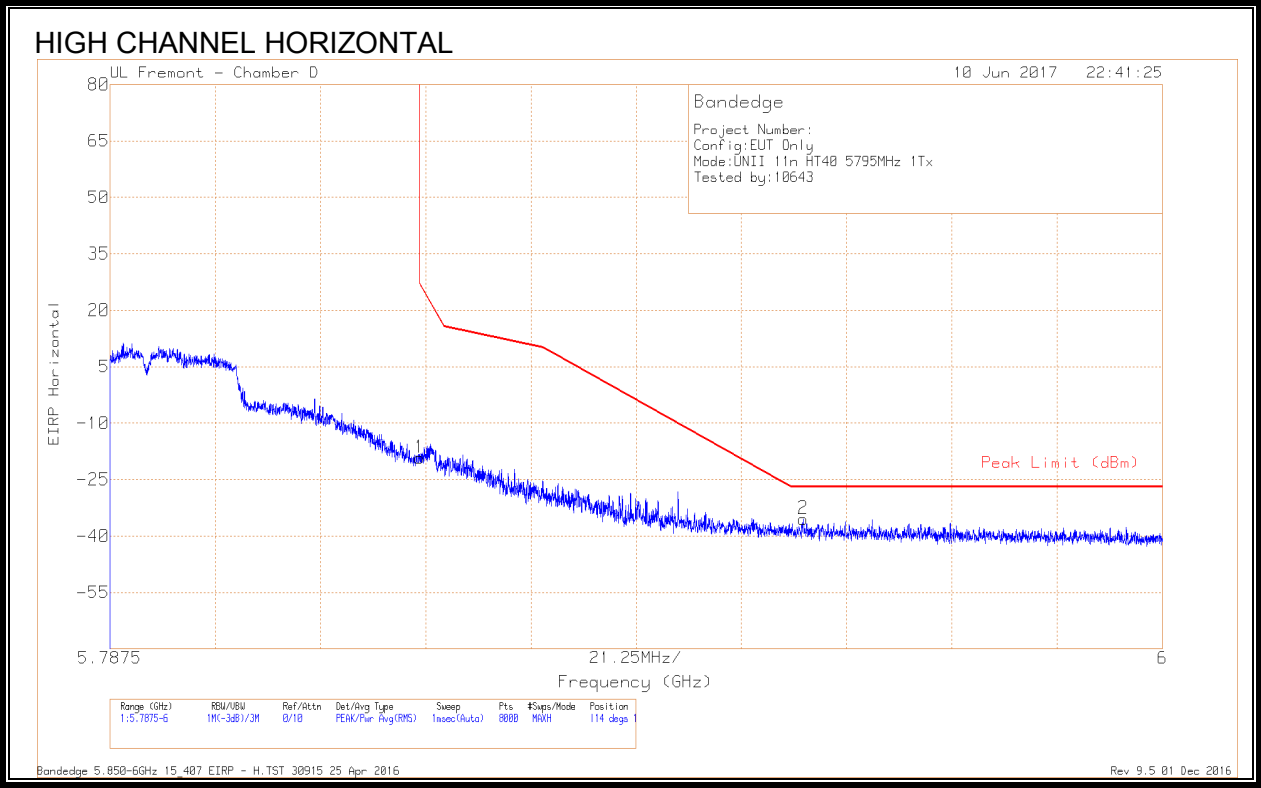
Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-61.85	Pk	34.6	-17.5	11.8	-32.95	-27	-5.95	117	105	H
1	5.725	-39.5	Pk	34.6	-17.5	11.8	-10.6	26.96	-37.56	117	105	H

Pk - Peak detector



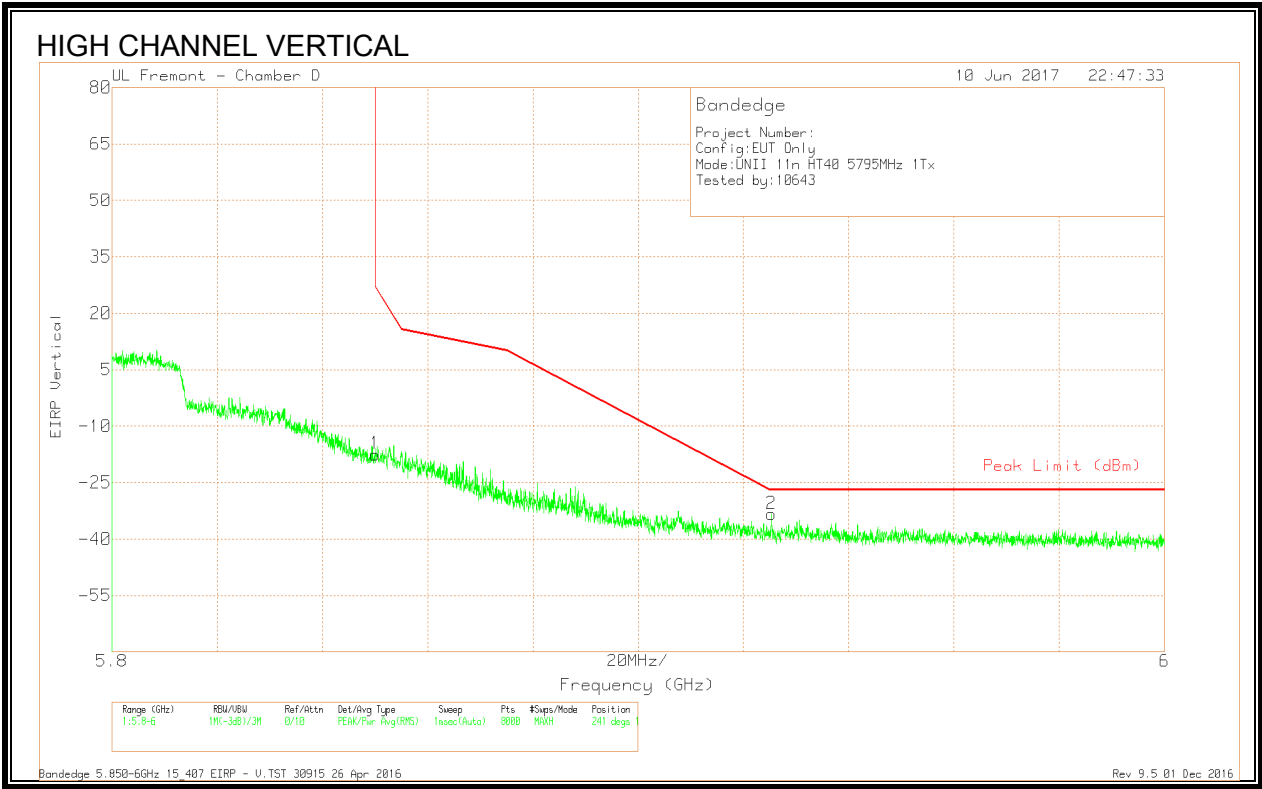
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.643	-61.04	Pk	34.6	-17.6	11.8	-32.24	-27	-5.24	258	112	V
1	5.725	-35.98	Pk	34.6	-17.5	11.8	-7.08	27	-34.08	258	112	V

Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (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	-48.53	Pk	35	-17.5	11.8	-19.23	26.98	-46.21	114	110	H
2	5.927	-64.95	Pk	35	-17.3	11.8	-35.45	-27	-8.45	114	110	H

Pk - Peak detector

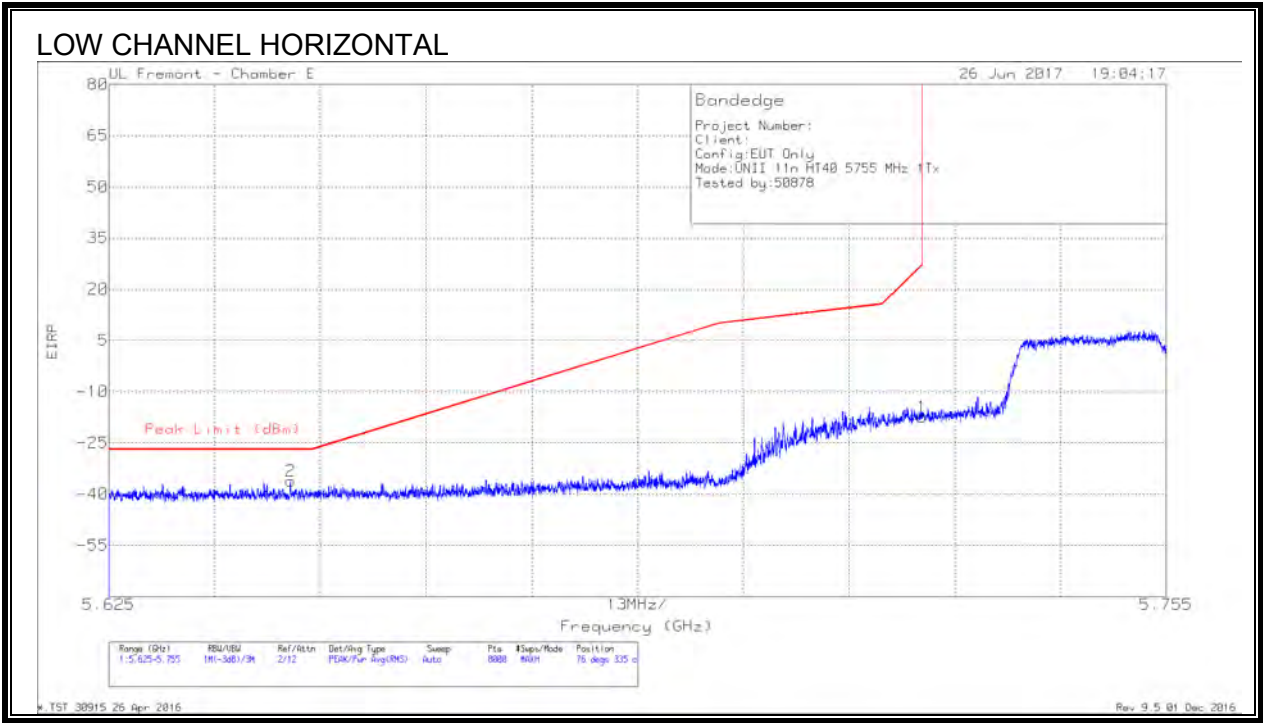


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-46.77	Pk	35	-17.5	11.8	-17.47	26.99	-44.46	241	101	V
2	5.925	-62.73	Pk	35	-17.4	11.8	-33.33	-27	-6.33	241	101	V

Pk - Peak detector

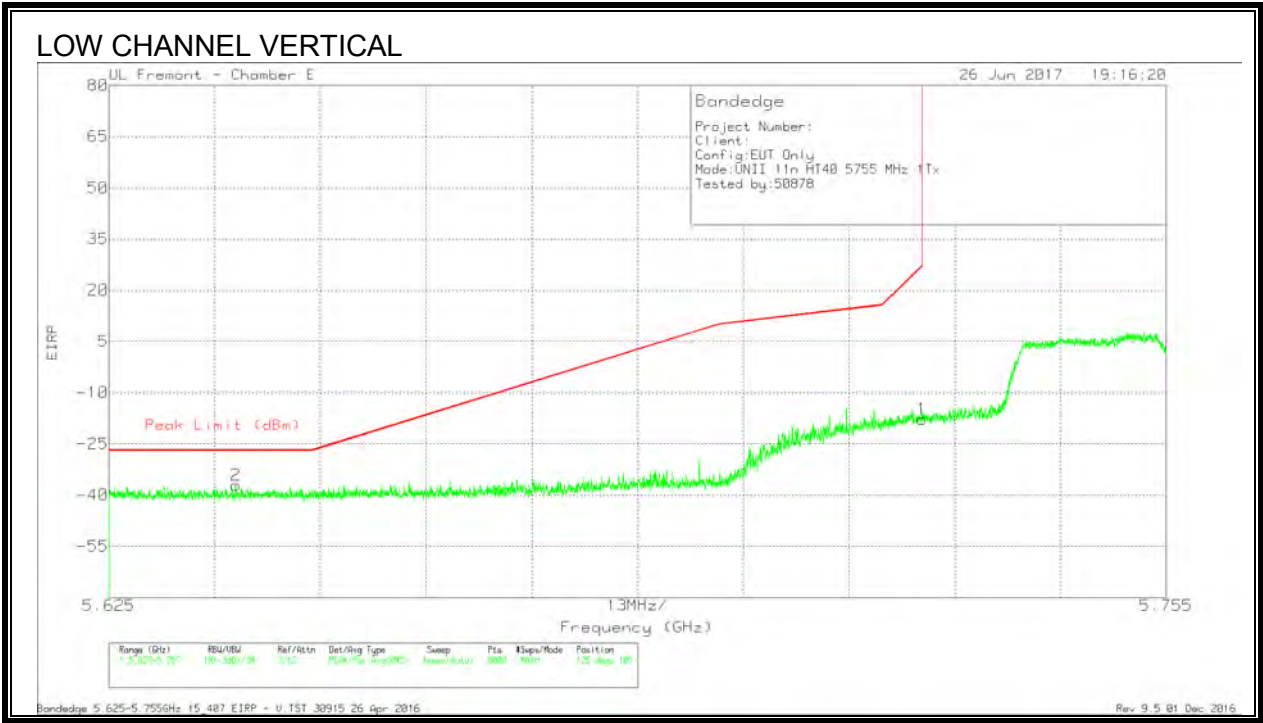
9.1.35. 11n HT40 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



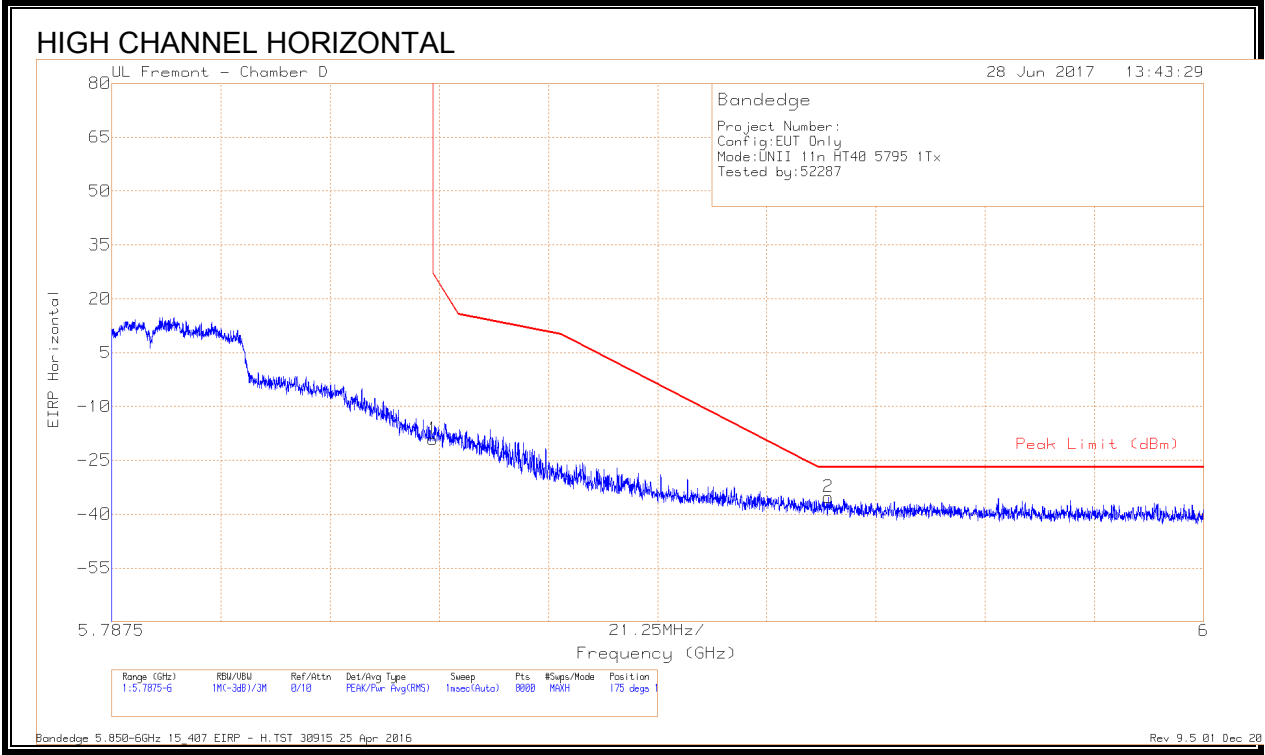
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-63.73	Pk	35.3	-19.5	11.8	-36.13	-27	-9.13	76	335	H
1	5.725	-44.54	Pk	35	-19.6	11.8	-17.34	27	-44.34	76	335	H

Pk - Peak detector
*.TST 30915 26 Apr 2016
Rev 9.5 01 Dec 2016



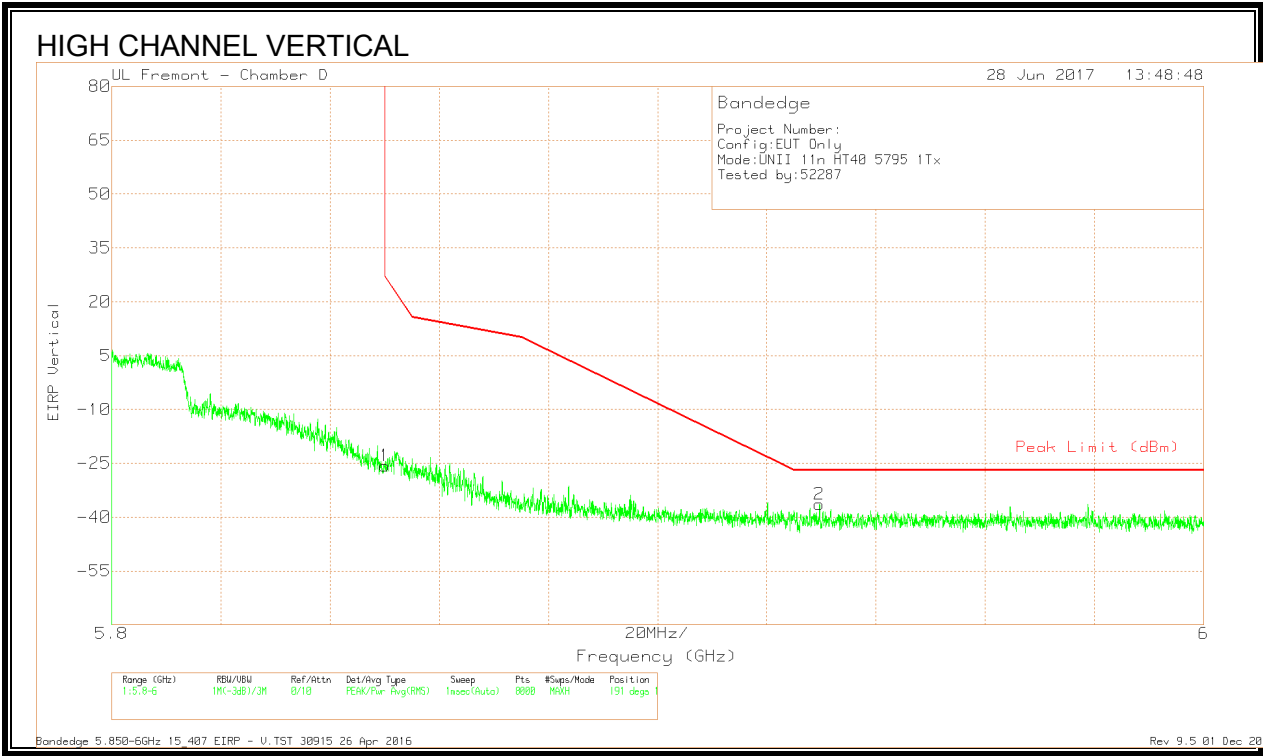
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.641	-64.72	Pk	35.3	-19.5	11.8	-37.12	-27	-10.12	125	105	V
1	5.725	-44.91	Pk	35	-19.6	11.8	-17.71	27	-44.71	125	105	V

Pk - Peak detector
Bandedge 5.625-5.755GHz 15_407 EIRP - V.TST 30915 26 Apr 2016
Rev 9.5 01 Dec 2016



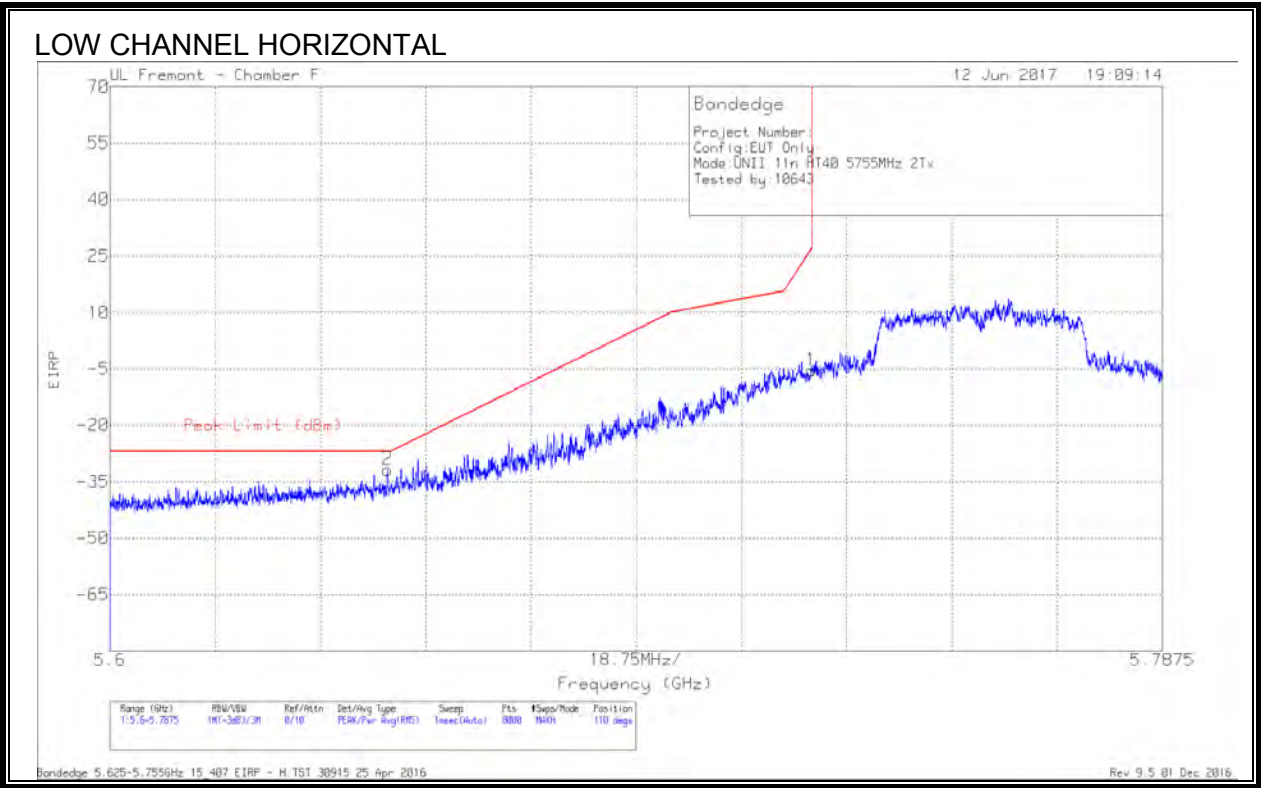
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-48.21	Pk	34.8	-17.5	11.8	-19.11	26.98	-46.09	175	113	H
2	5.927	-64.63	Pk	35	-17.4	11.8	-35.23	-27	-8.23	175	113	H

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
Rev 9.5 01 Dec 2016



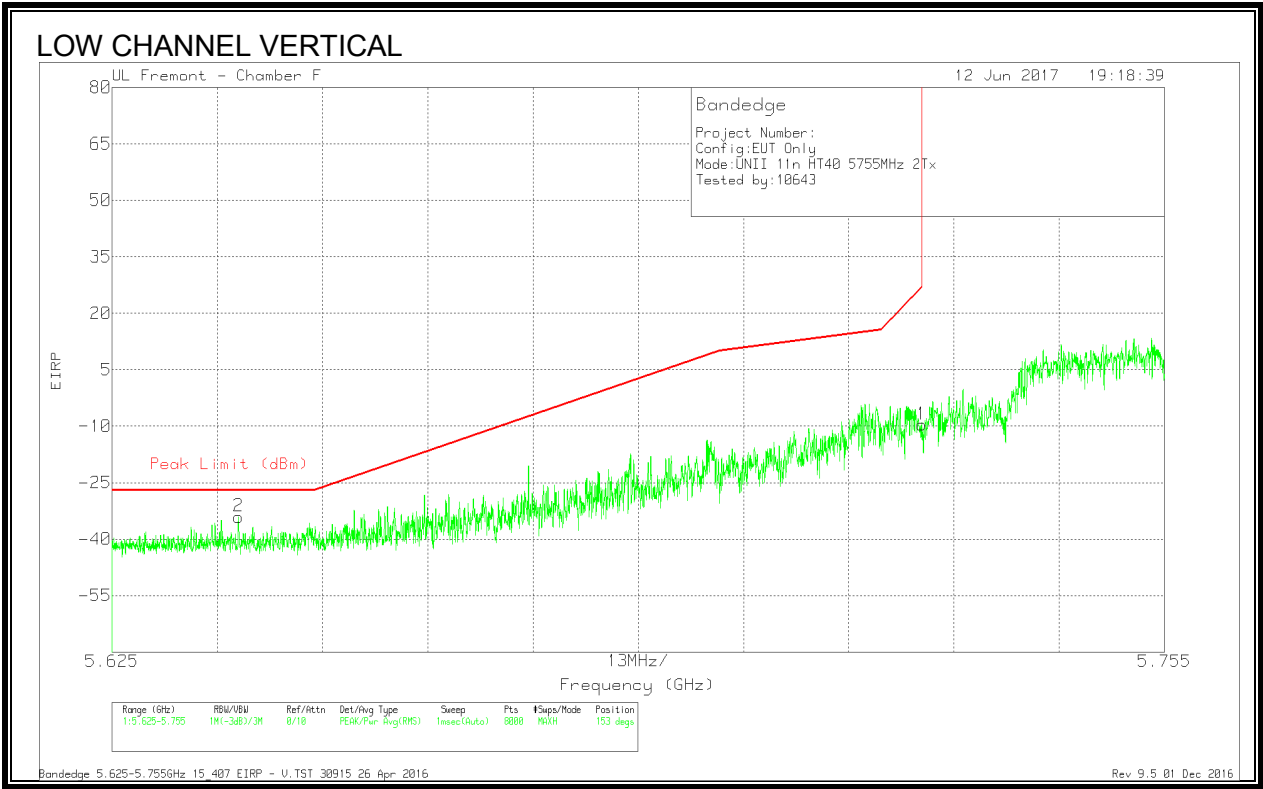
9.1.36. 11n HT40 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



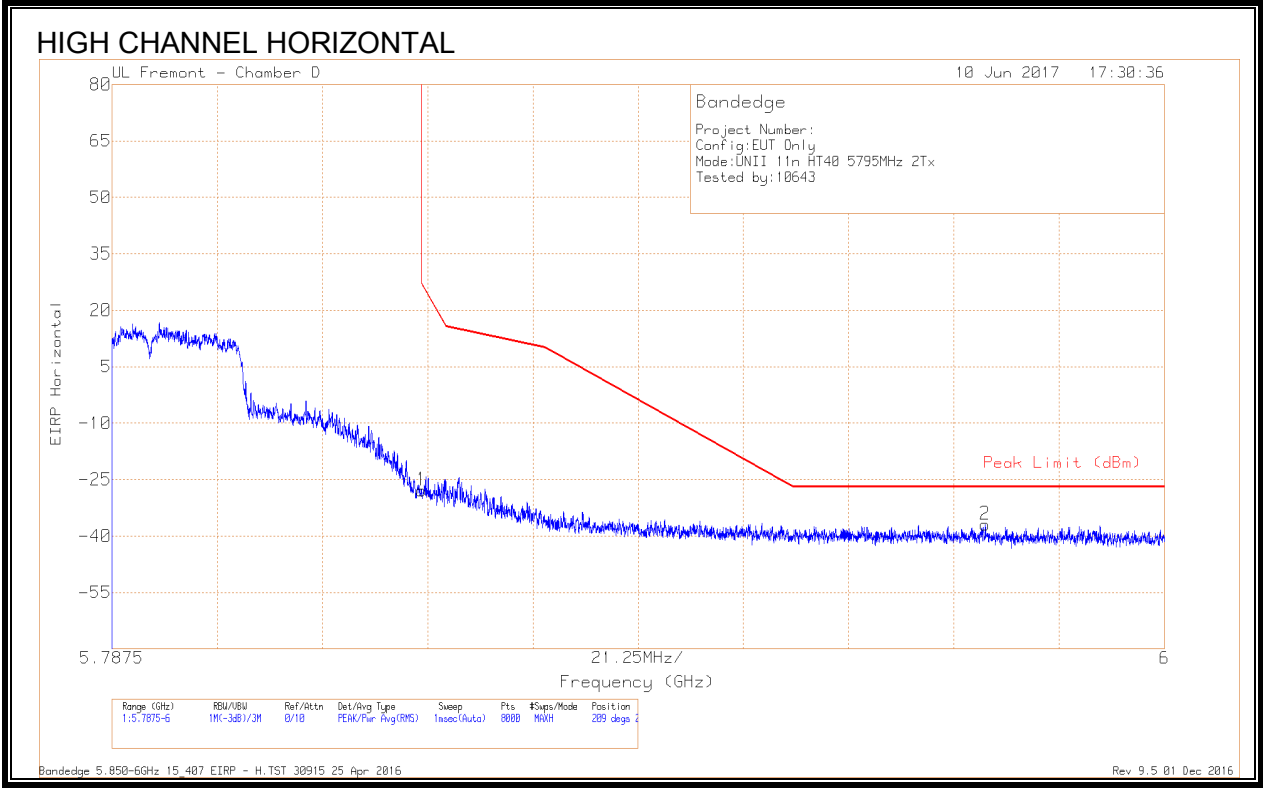
Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-34.23	Pk	35	-18	11.8	-5.43	26.96	-32.39	110	107	H
2	5.649	-60.43	Pk	34.9	-18.1	11.8	-31.83	-27	-4.83	110	107	H

Pk - Peak detector



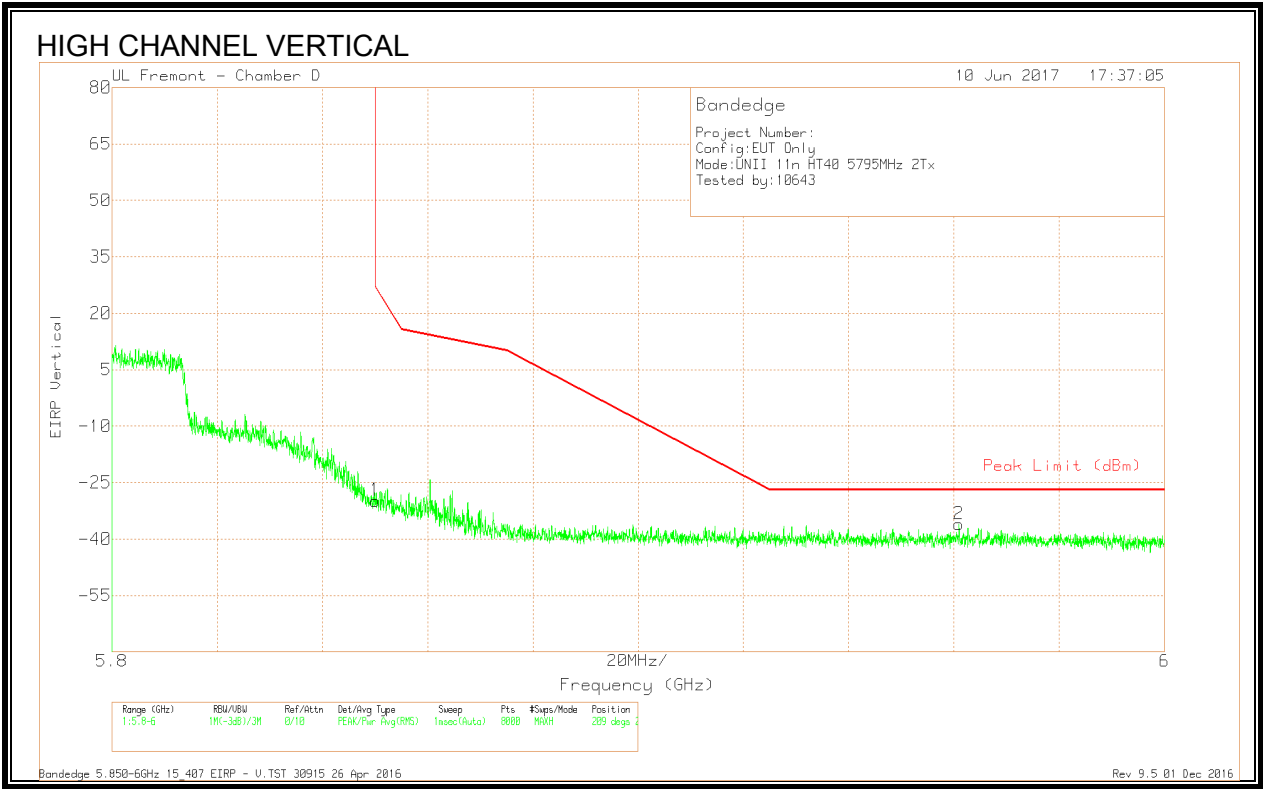
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T119 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.4	Pk	35	-18	11.8	-9.6	27	-36.6	153	290	V
2	5.641	-62.53	Pk	34.9	-18.2	11.8	-34.03	-27	-7.03	153	290	V

Pk - Peak detector



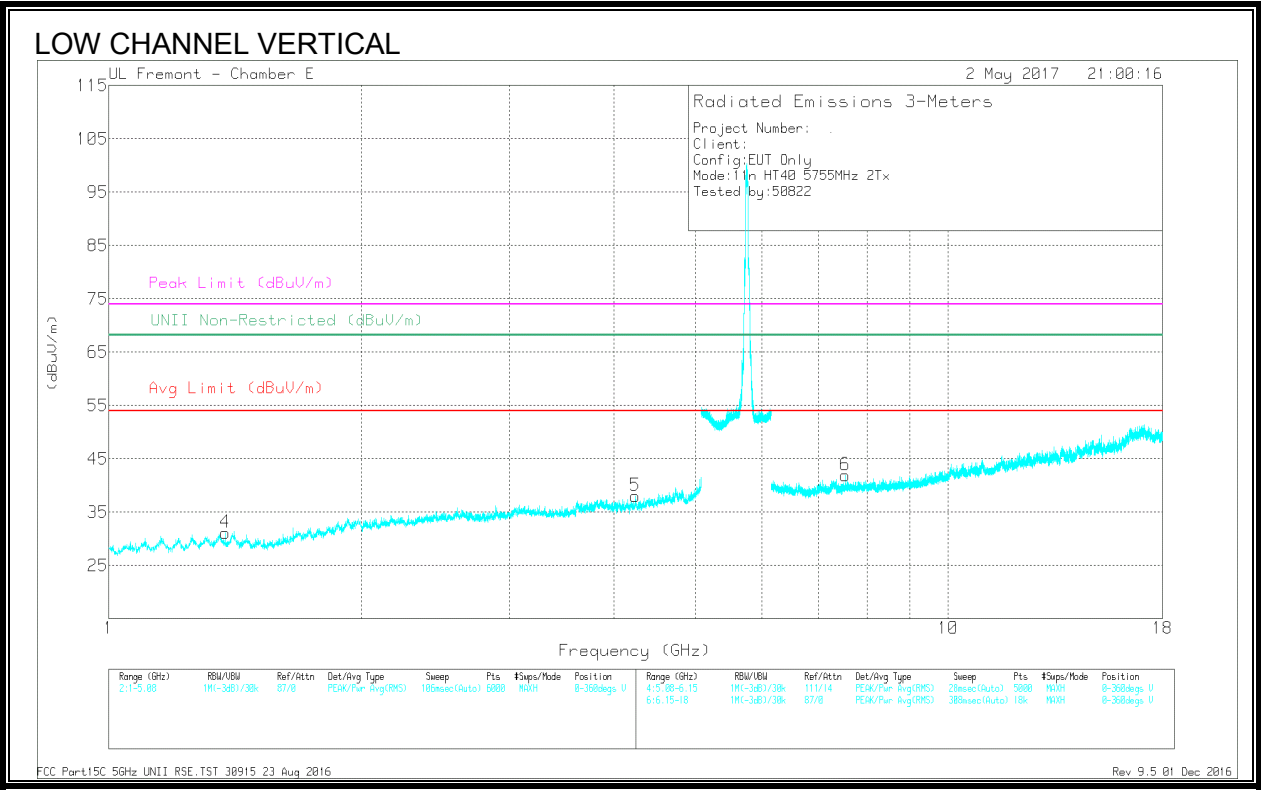
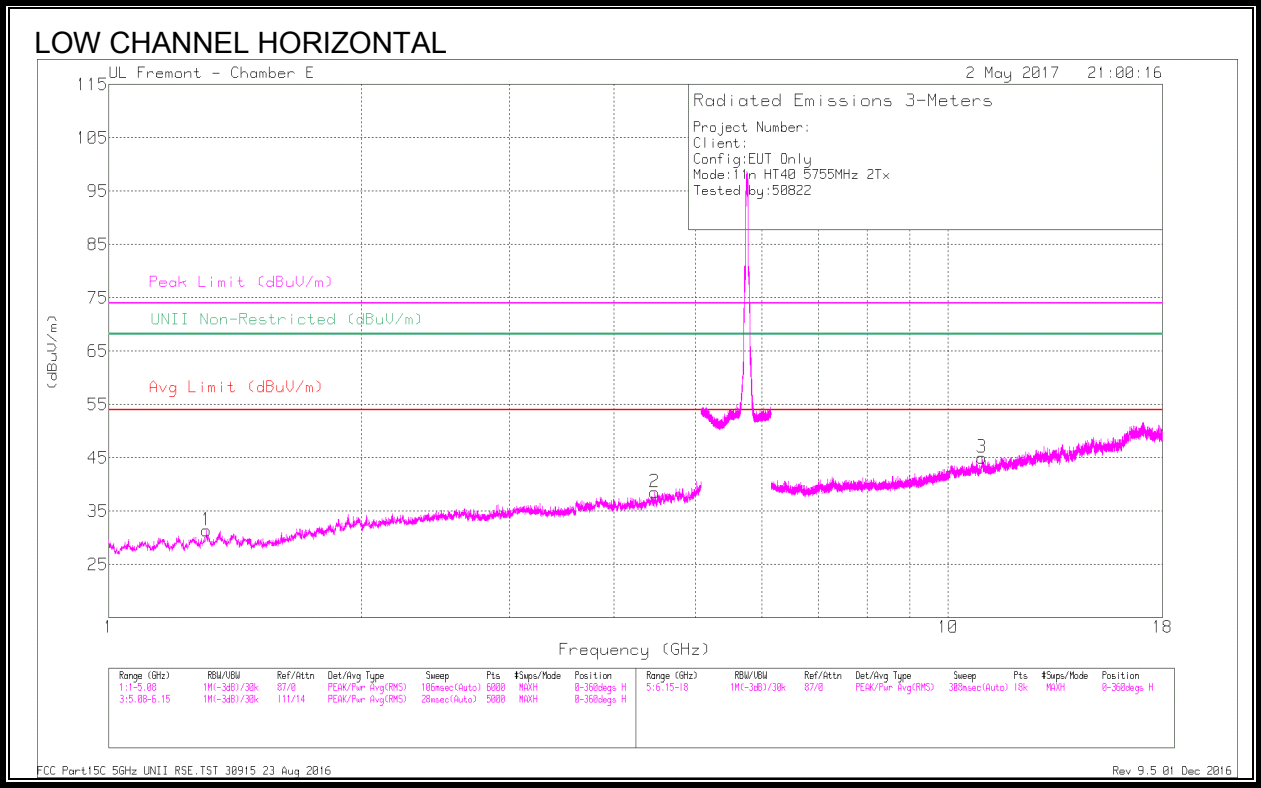
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.16	Pk	35	-17.5	11.8	-27.86	26.98	-54.84	209	237	H
2	5.964	-66.43	Pk	35.1	-17.4	11.8	-36.93	-27	-9.93	209	237	H

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



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.12	Pk	35	-17.5	11.8	-29.82	26.99	-56.81	209	237	V
2	5.961	-65.69	Pk	35.1	-17.3	11.8	-36.09	-27	-9.09	209	237	V

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



Marker	Frequen cy (GHz)	Meter Readin g (dBuV)	Det	AF T863 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.307	45.05	PK-U	28.8	-35.4	0	38.45	-	-	74	-35.55	-	-	0	172	H
	* 1.307	32.71	ADR	28.8	-35.4	.1	26.21	54	-27.79	-	-	-	-	0	172	H
4	* 1.376	43.3	PK-U	28.7	-34.9	0	37.1	-	-	74	-36.9	-	-	107	126	V
	* 1.377	31.34	ADR	28.7	-34.9	.1	25.24	54	-28.76	-	-	-	-	107	126	V
5	* 4.239	40.91	PK-U	33.5	-29.8	0	44.61	-	-	74	-29.39	-	-	148	239	V
	* 4.241	29.34	ADR	33.5	-29.7	.1	33.24	54	-20.76	-	-	-	-	148	239	V
3	* 10.966	36.09	PK-U	37.6	-22.5	0	51.19	-	-	74	-22.81	-	-	91	368	H
	* 10.965	24.54	ADR	37.6	-22.5	.1	39.74	54	-14.26	-	-	-	-	91	368	H
6	* 7.535	38.52	PK-U	36.1	-26.6	0	48.02	-	-	74	-25.98	-	-	9	338	V
	* 7.536	26.42	ADR	36.1	-26.6	.1	36.02	54	-17.98	-	-	-	-	9	338	V
2	4.472	41.73	PK-U	33.9	-30.6	0	45.03	-	-	-	-	68.2	-23.17	145	307	H

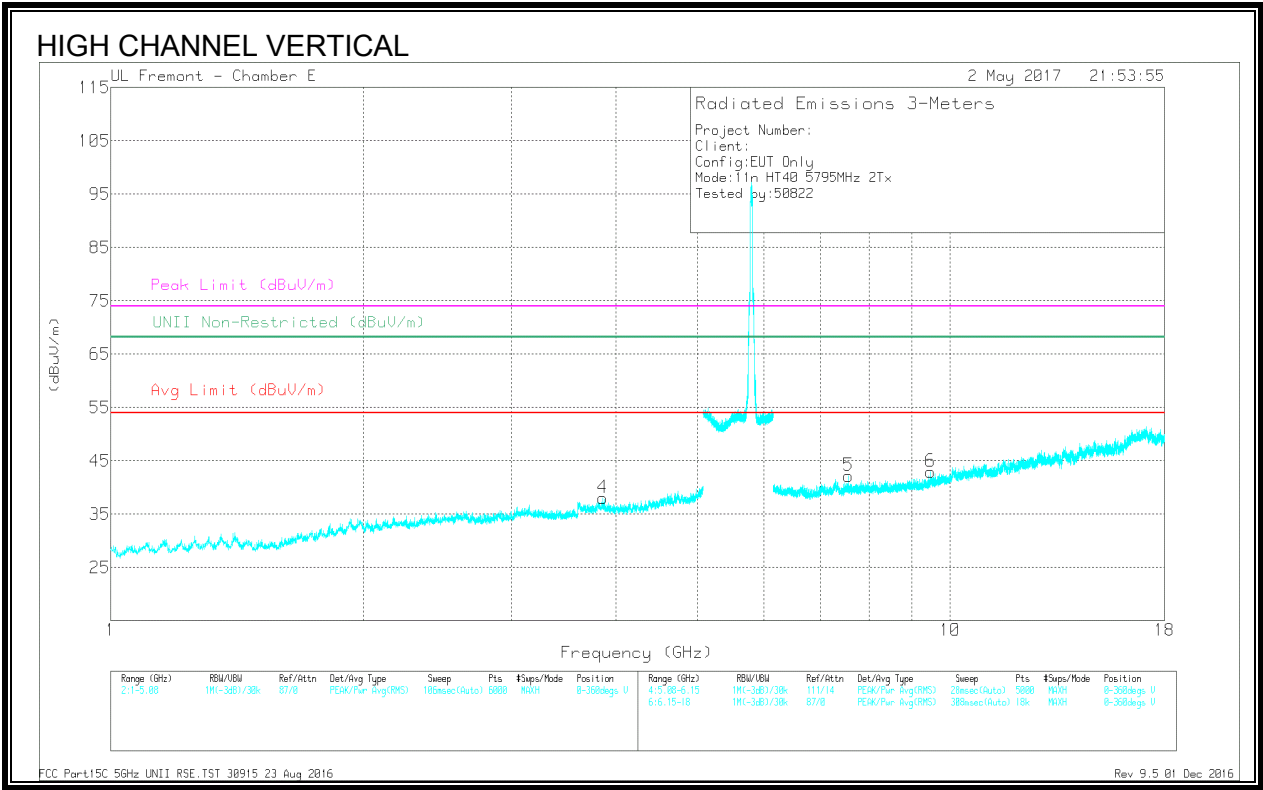
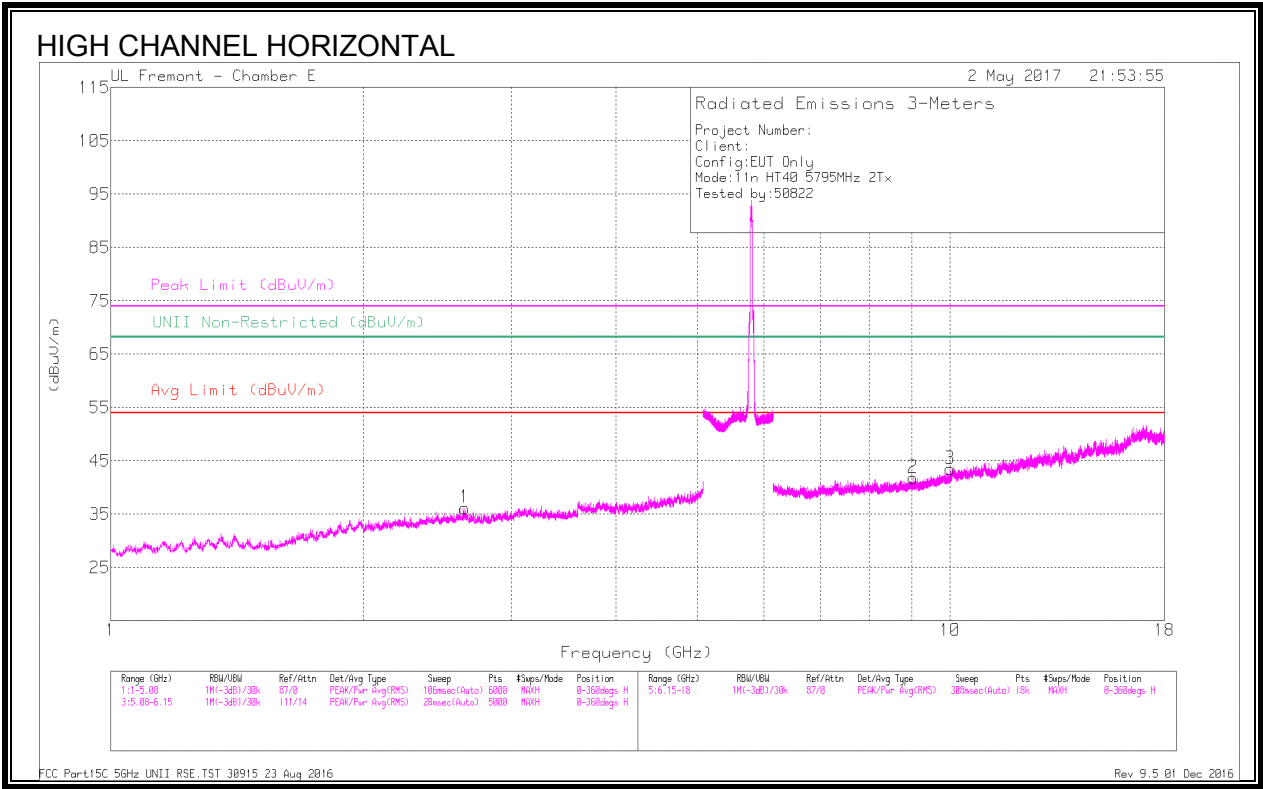
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 23 Aug 2016

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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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
4	* 3.856	41.51	PK-U	33.4	-29.7	0	45.21	-	-	74	-28.79	-	-	104	400	V
	* 3.857	29.89	ADR	33.4	-29.7	.1	33.69	54	-20.31	-	-	-	-	104	400	V
2	* 9.034	37.96	PK-U	36.3	-26.3	0	47.96	-	-	74	-26.04	-	-	284	345	H
	* 9.034	26.55	ADR	36.3	-26.3	.1	36.65	54	-17.35	-	-	-	-	284	345	H
5	* 7.567	38.43	PK-U	36.1	-26.6	0	47.93	-	-	74	-26.07	-	-	88	334	V
	* 7.567	26.27	ADR	36.1	-26.6	.1	35.87	54	-18.13	-	-	-	-	88	334	V
6	* 9.481	36.84	PK-U	36.6	-24.7	0	48.74	-	-	74	-25.26	-	-	32	211	V
	* 9.479	25.29	ADR	36.6	-24.7	.1	37.29	54	-16.71	-	-	-	-	32	211	V
1	2.638	41.27	PK-U	32.4	-31	0	42.67	-	-	-	-	68.2	-25.53	132	127	H
3	9.994	37.39	PK-U	37.1	-25.1	0	49.39	-	-	-	-	68.2	-18.81	30	392	H

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

PK-U - U-NII: Maximum Peak

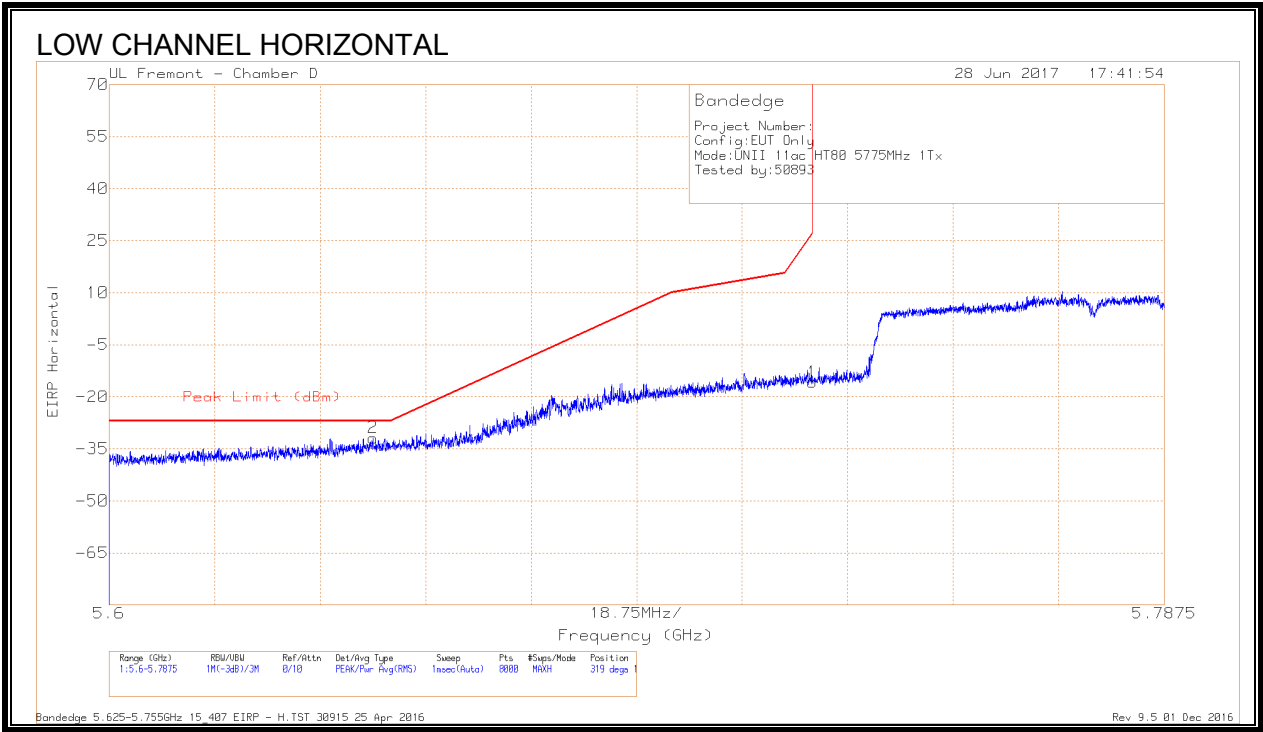
ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 23 Aug 2016

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9.1.37. 11ac HT80 UAT 2 SISO MODE IN THE 5.8GHz BAND

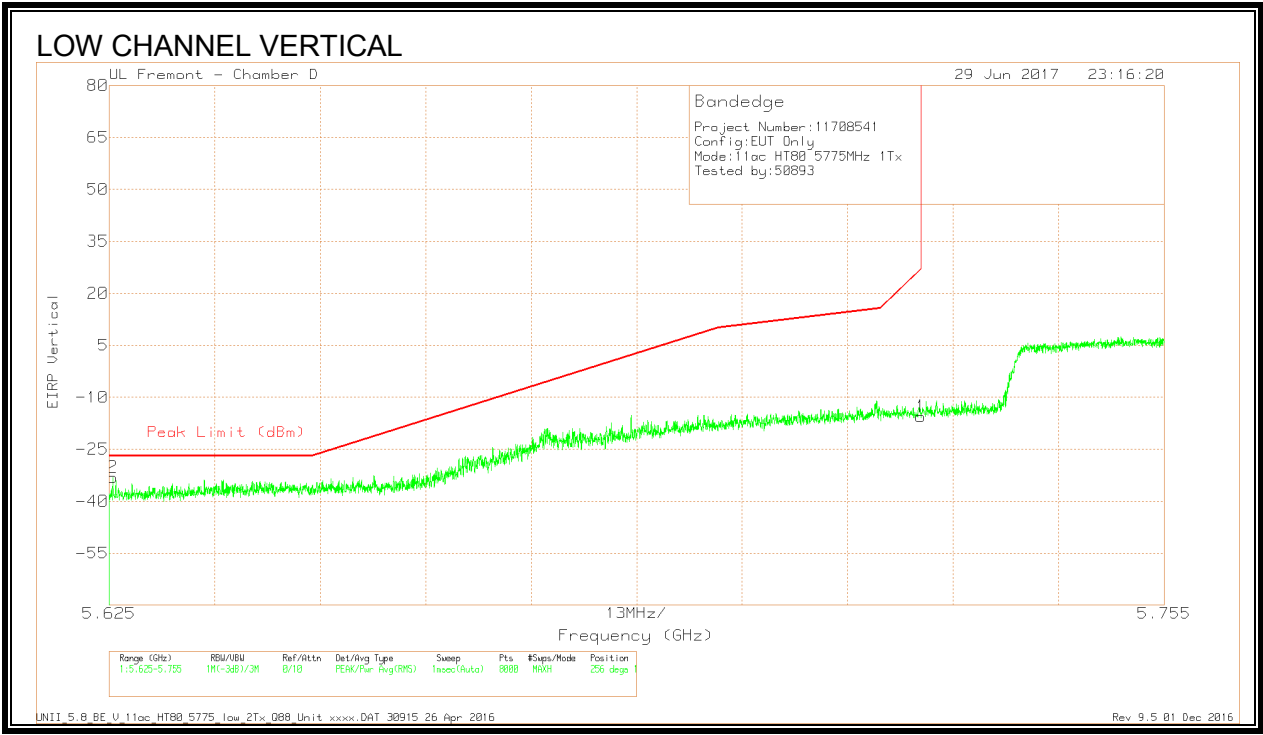
RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl /Fitr/Pa d (dB)	Conversi on Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-60.83	Pk	34.7	-17.5	11.8	0	-31.83	-27	-4.83	319	171	H
1	5.725	-44.91	Pk	34.8	-17.5	11.8	0	-15.81	26.96	-42.77	319	171	H

Pk - Peak detector

Bandedge 5.625-5.755GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
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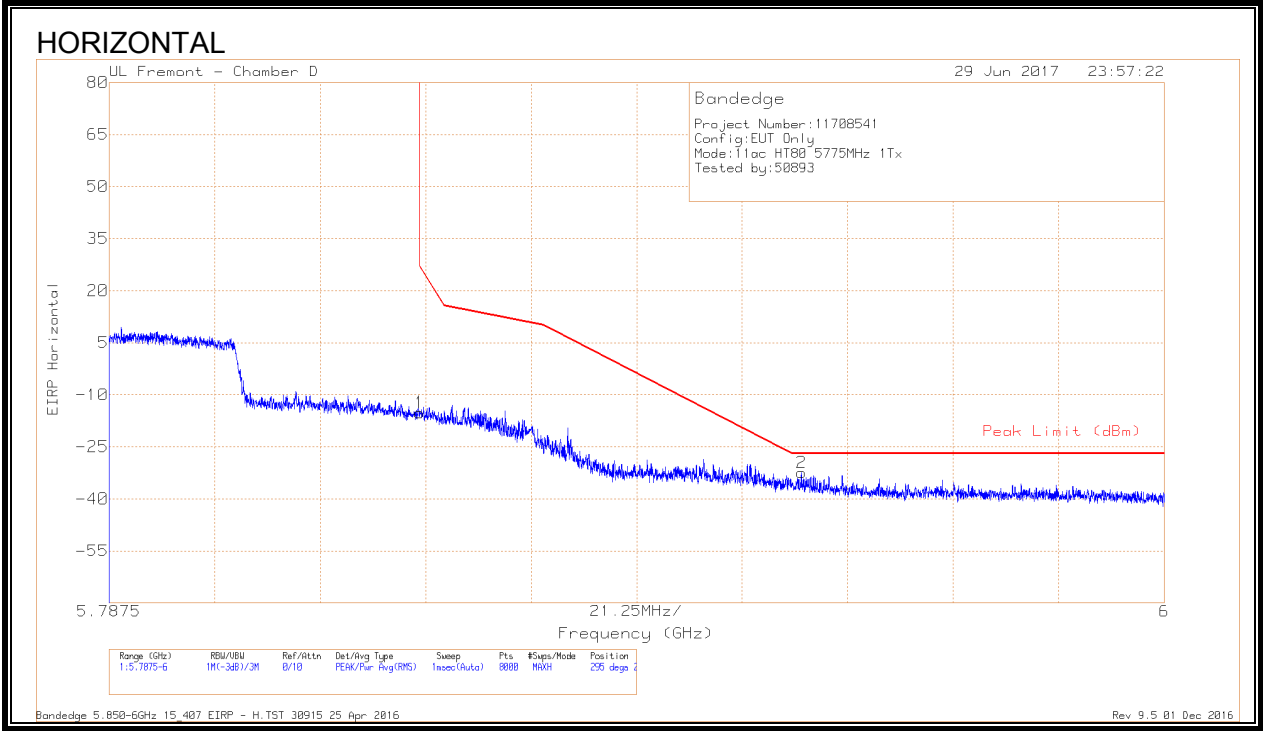


Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.625	-61.89	Pk	34.7	-17.7	11.8	0	-33.09	-27	-6.09	256	108	V
1	5.725	-44.64	Pk	34.8	-17.5	11.8	0	-15.54	27	-42.54	256	108	V

Pk - Peak detector

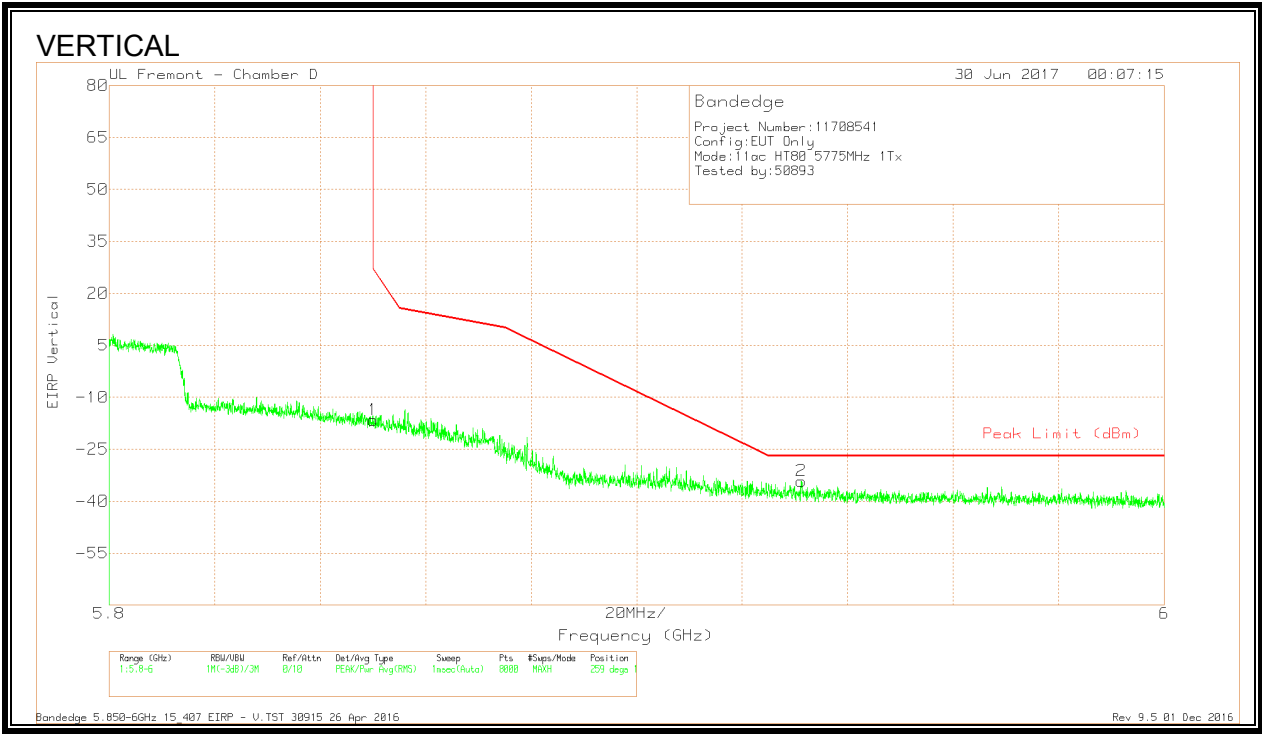
UNII_5.8_BE_V_11ac_HT80_5775_low_2Tx_Q88_Unit xxxx.DAT 30915 26 Apr 2016

Rev 9.5 01 Dec 2016



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Conversio n Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-44.28	Pk	34.8	-17.5	11.8	-15.18	26.98	-42.16	295	244	H
2	5.927	-61.86	Pk	35	-17.4	11.8	-32.46	-27	-5.46	295	244	H

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
Rev 9.5 01 Dec 2016

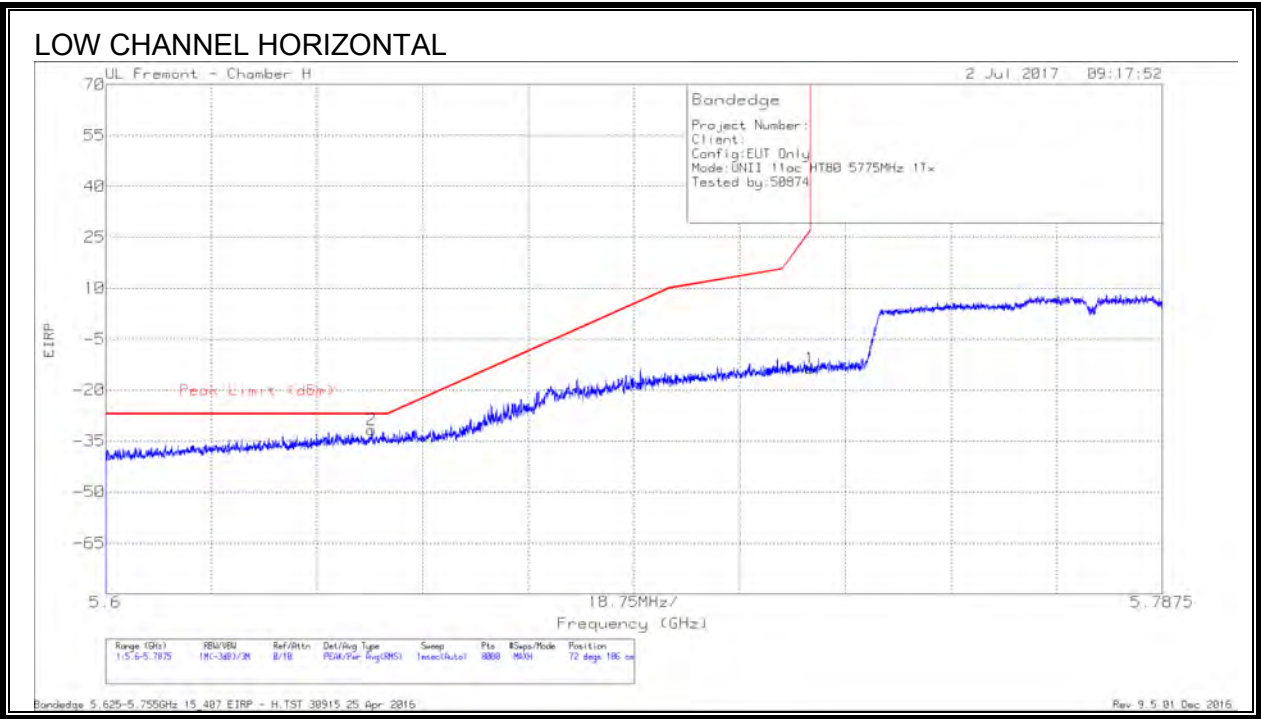


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Conversio n Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.65	Pk	34.8	-17.5	11.8	-16.55	26.99	-43.54	259	193	V
2	5.931	-63.65	Pk	35	-17.3	11.8	-34.15	-27	-7.15	259	193	V

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - V.TST 30915 26 Apr 2016
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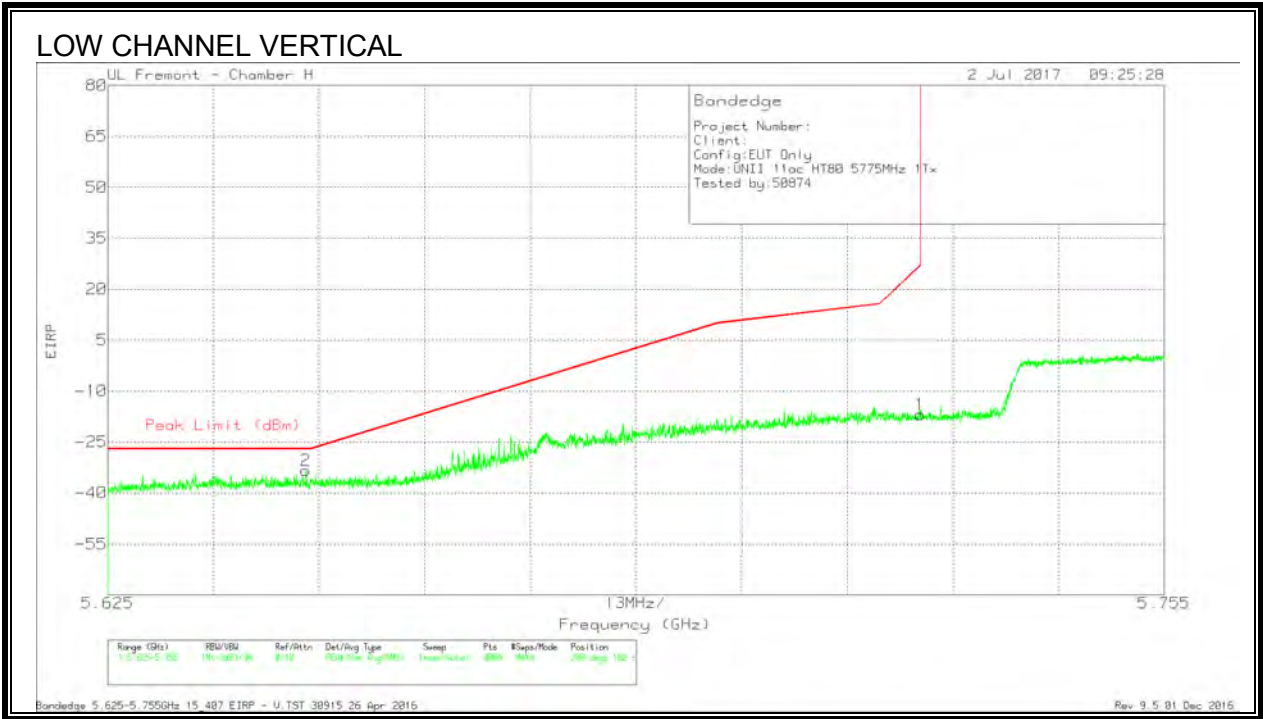
9.1.38. 11ac HT80 LAT 3 SISO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



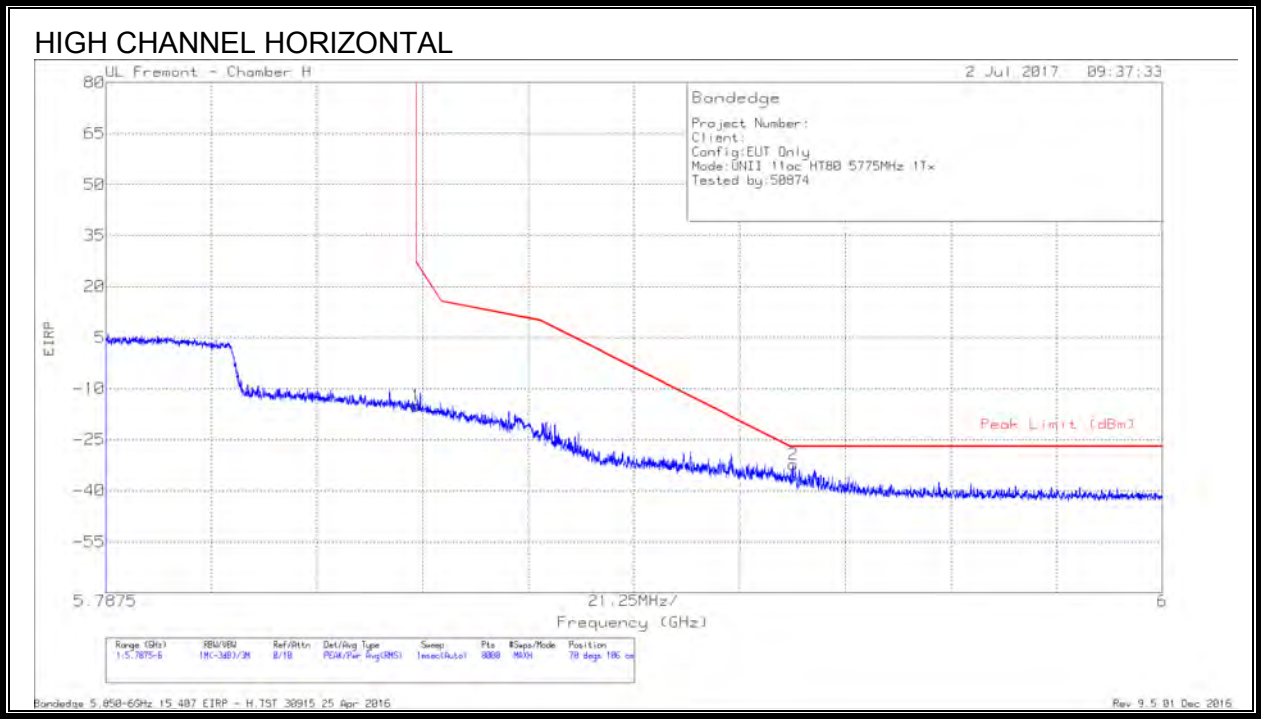
Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Conversio n Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-54.85	Pk	34.9	-23.6	11.8	-31.75	-27	-4.75	72	106	H
1	5.725	-36.99	Pk	35.1	-23.5	11.8	-13.59	26.96	-40.55	72	106	H

Pk - Peak detector
Bandedge 5.625-5.755GHz 15_407 EIRP - H.TST 30915 25 Apr 2016
Rev 9.5 01 Dec 2016



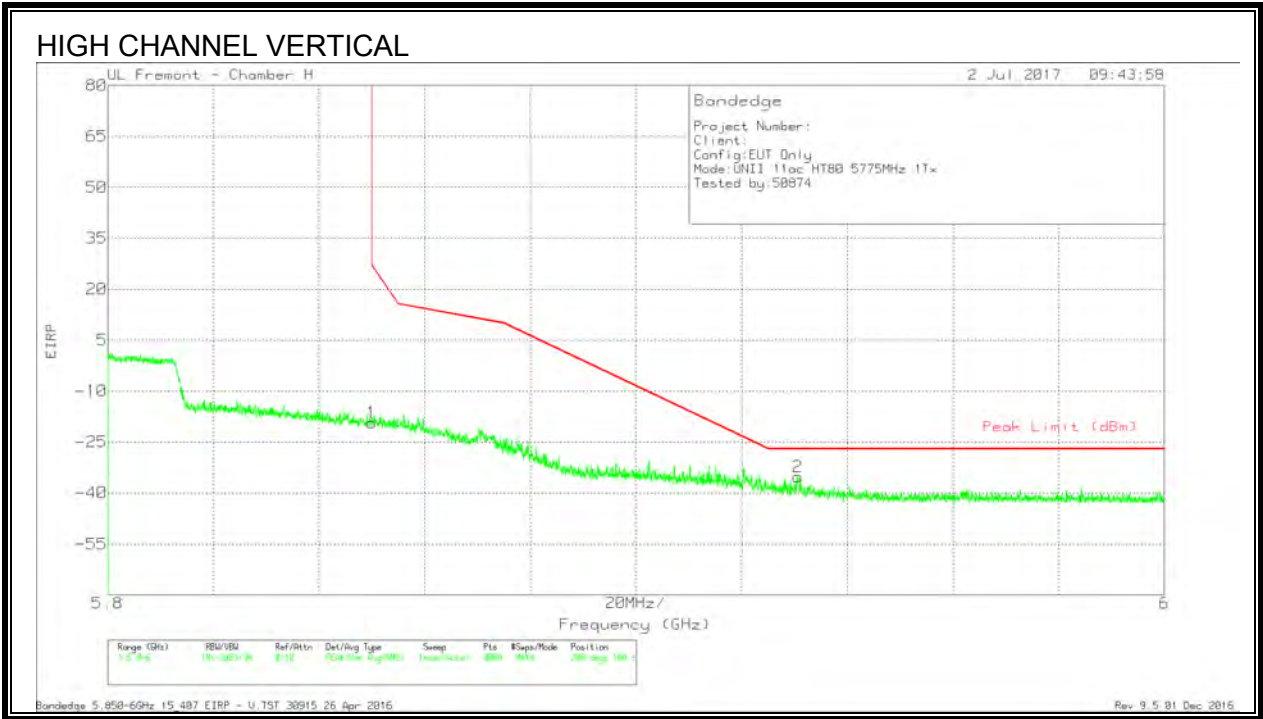
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-56.53	Pk	34.9	-23.6	11.8	-33.43	-27	-6.43	289	102	V
1	5.725	-40.33	Pk	35.1	-23.5	11.8	-16.93	27	-43.93	289	102	V

Pk - Peak detector
Bandedge 5.625-5.755GHz 15_407 EIRP - V.TST 30915 26 Apr 2016
Rev 9.5 01 Dec 2016



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Conversio n Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-38.89	Pk	35.4	-23.3	11.8	-14.99	26.98	-41.97	70	106	H
2	5.926	-56.46	Pk	35.5	-23.1	11.8	-32.26	-27	-5.26	70	106	H

Pk - Peak detector
Bandedge 5.850-6GHz 15_407 EIRP - H.TST 30915 25 Apr 2016

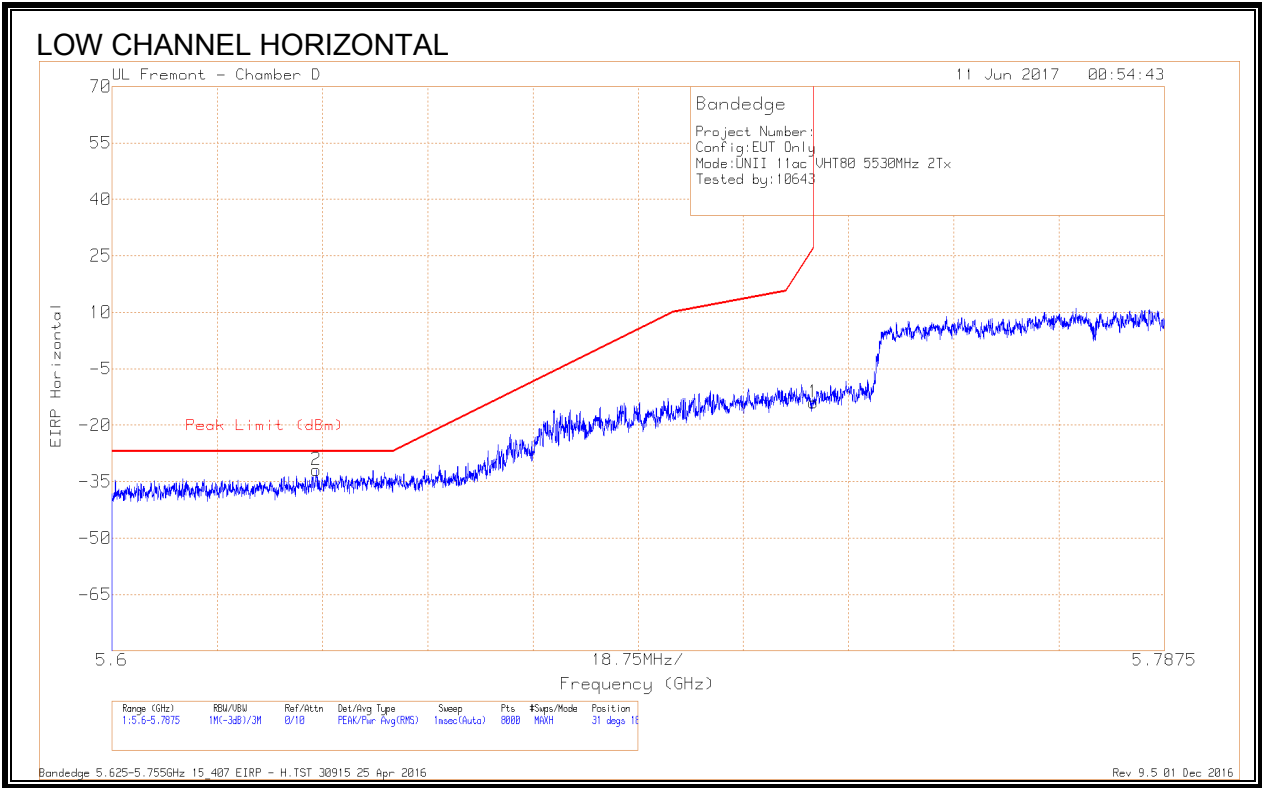


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Conversio n Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.26	Pk	35.4	-23.3	11.8	-19.36	26.99	-46.35	280	100	V
2	5.931	-59.33	Pk	35.5	-23.1	11.8	-35.13	-27	-8.13	280	100	V

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

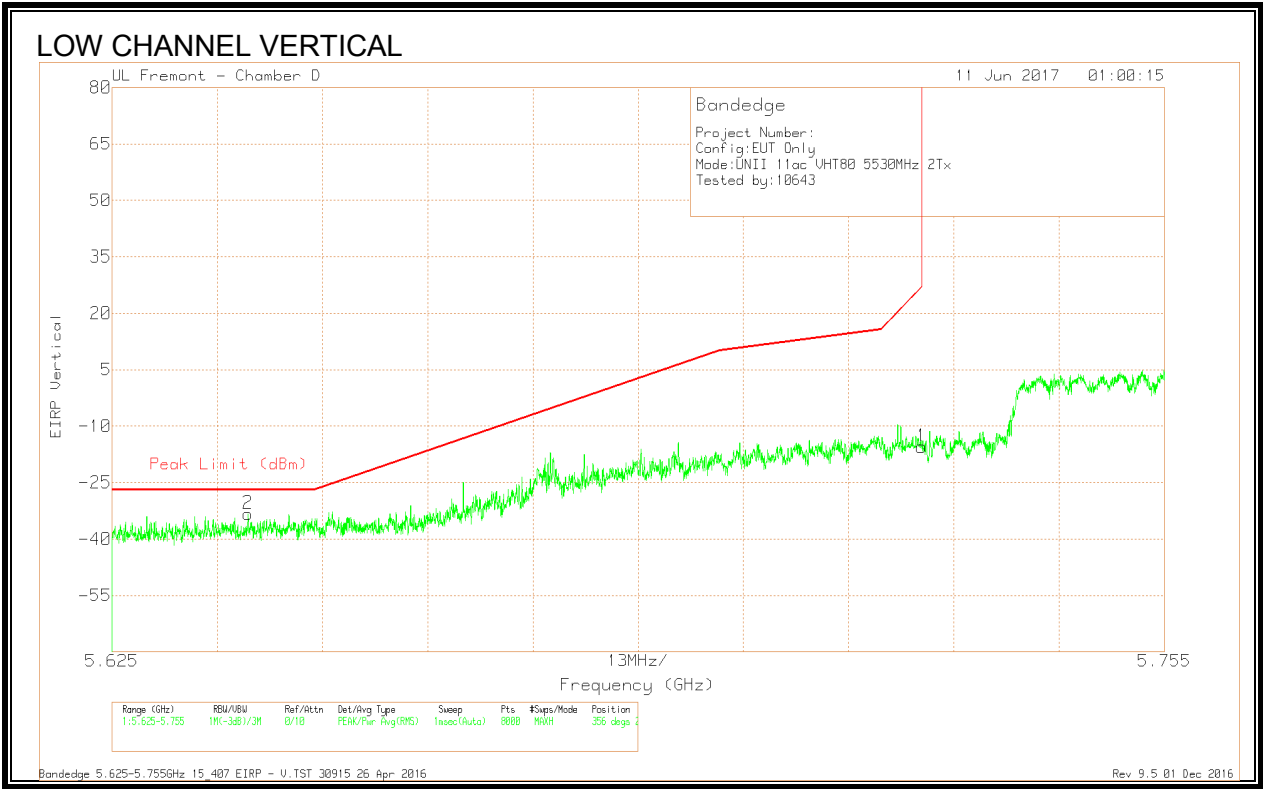
9.1.39. 11ac HT80 2TX CDD MIMO MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



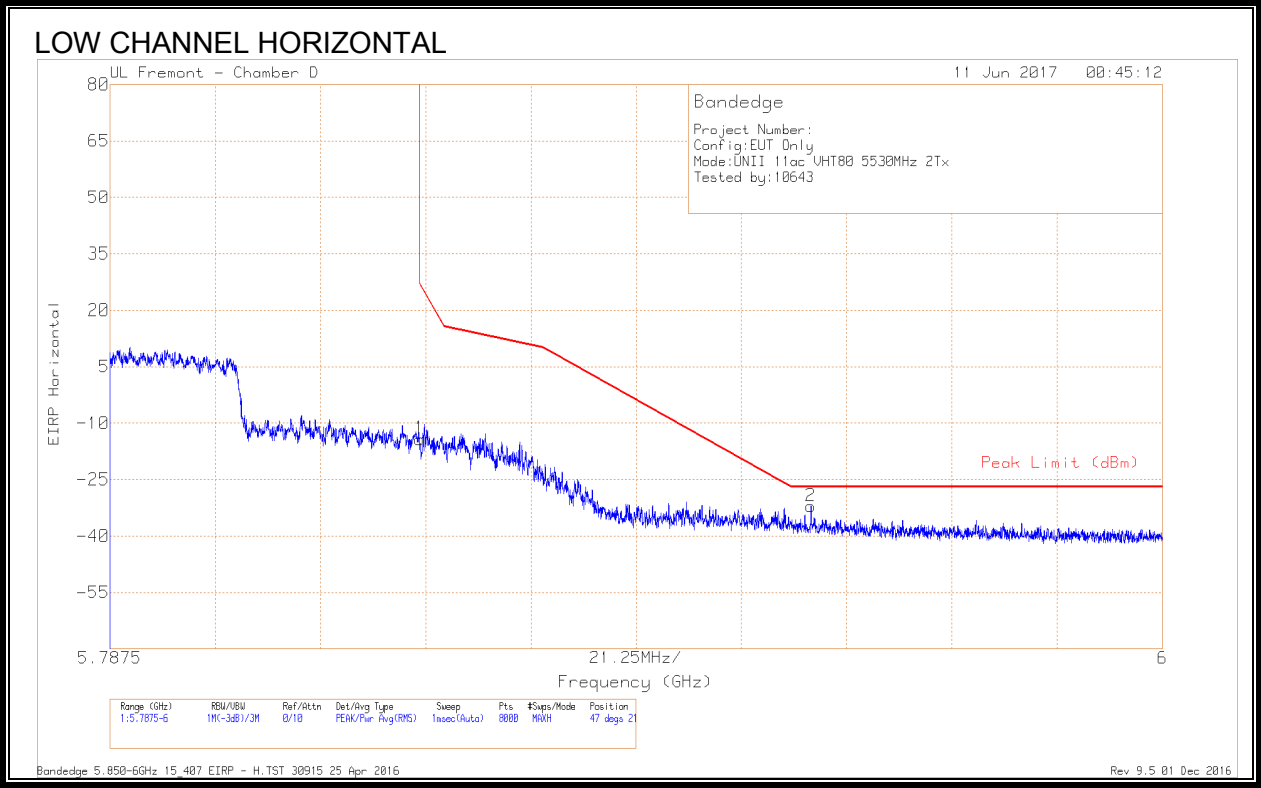
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.636	-60.85	Pk	34.6	-17.5	11.8	-31.95	-27	-4.95	31	183	H
1	5.725	-42.91	Pk	34.6	-17.5	11.8	-14.01	26.96	-40.97	31	183	H

Pk - Peak detector



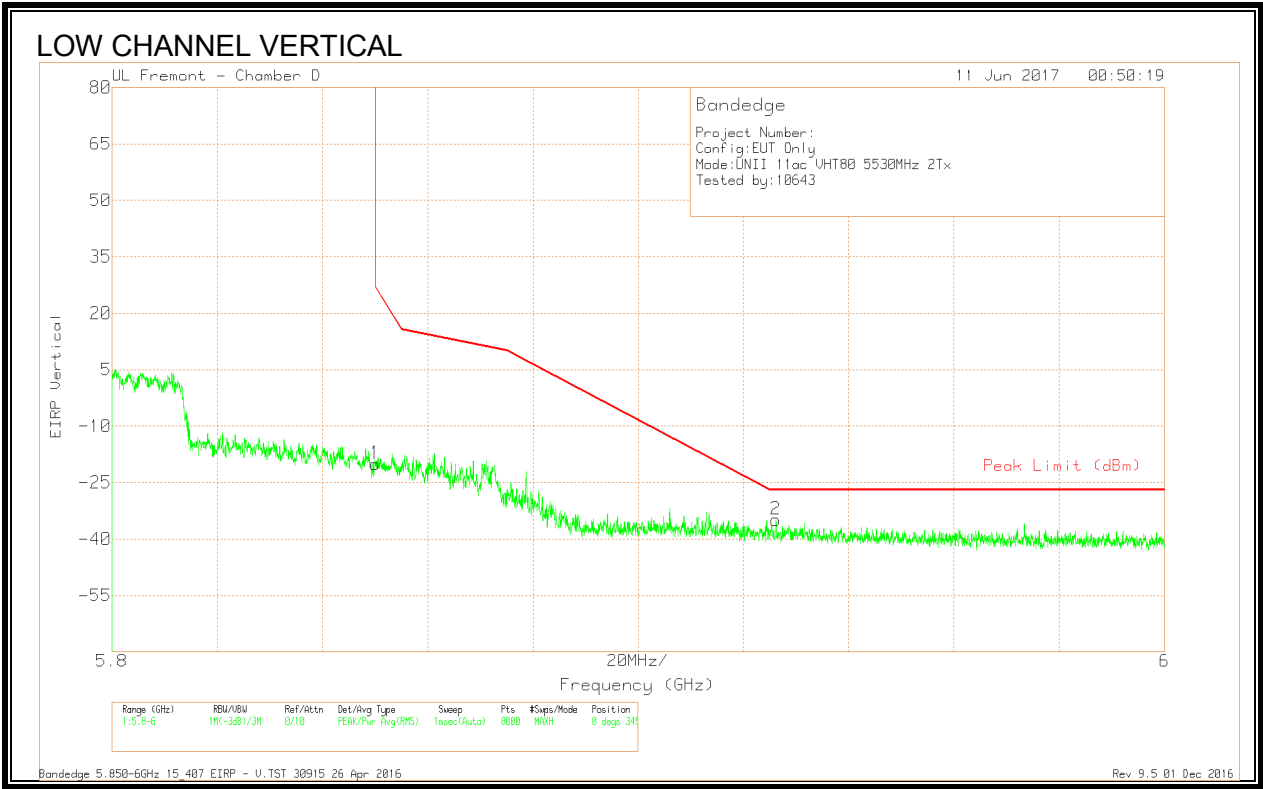
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.642	-62.07	Pk	34.6	-17.6	11.8	-33.27	-27	-6.27	356	222	V
1	5.725	-44.36	Pk	34.6	-17.5	11.8	-15.46	27	-42.46	356	222	V

Pk - Peak detector



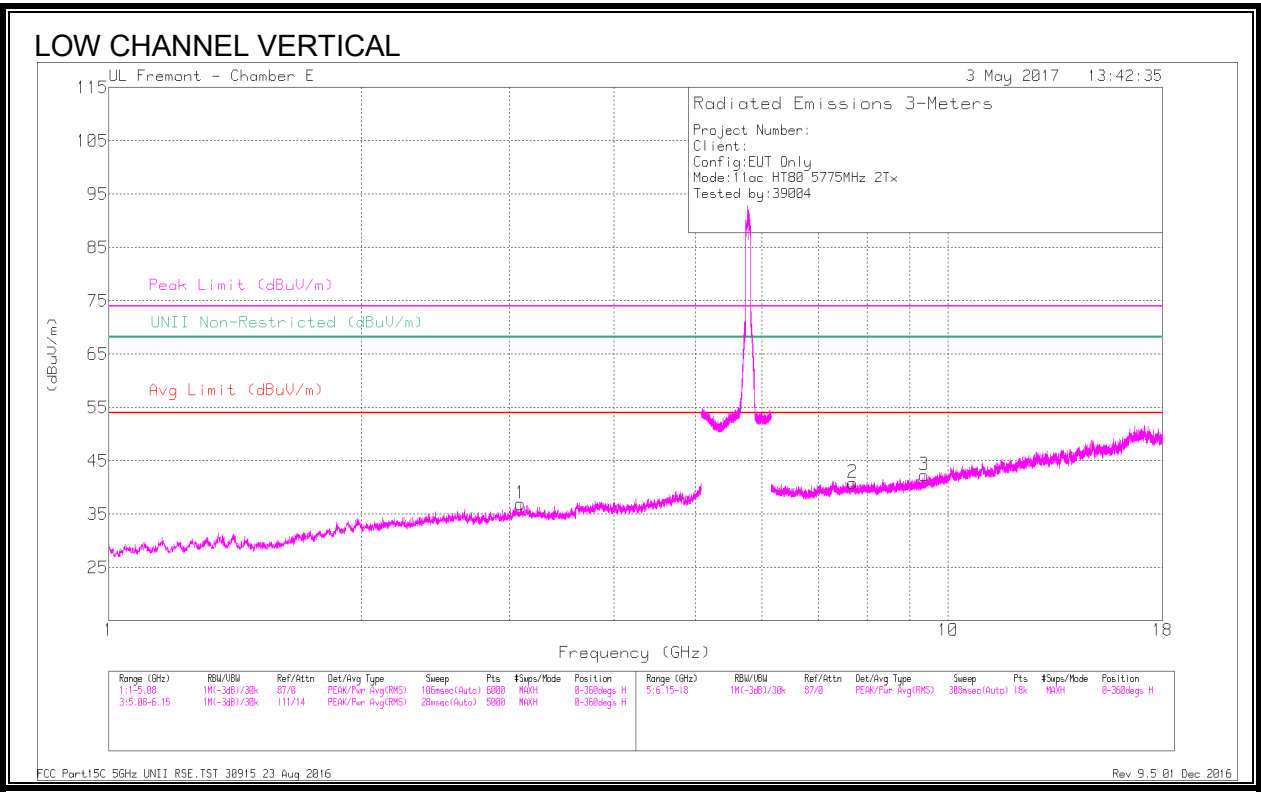
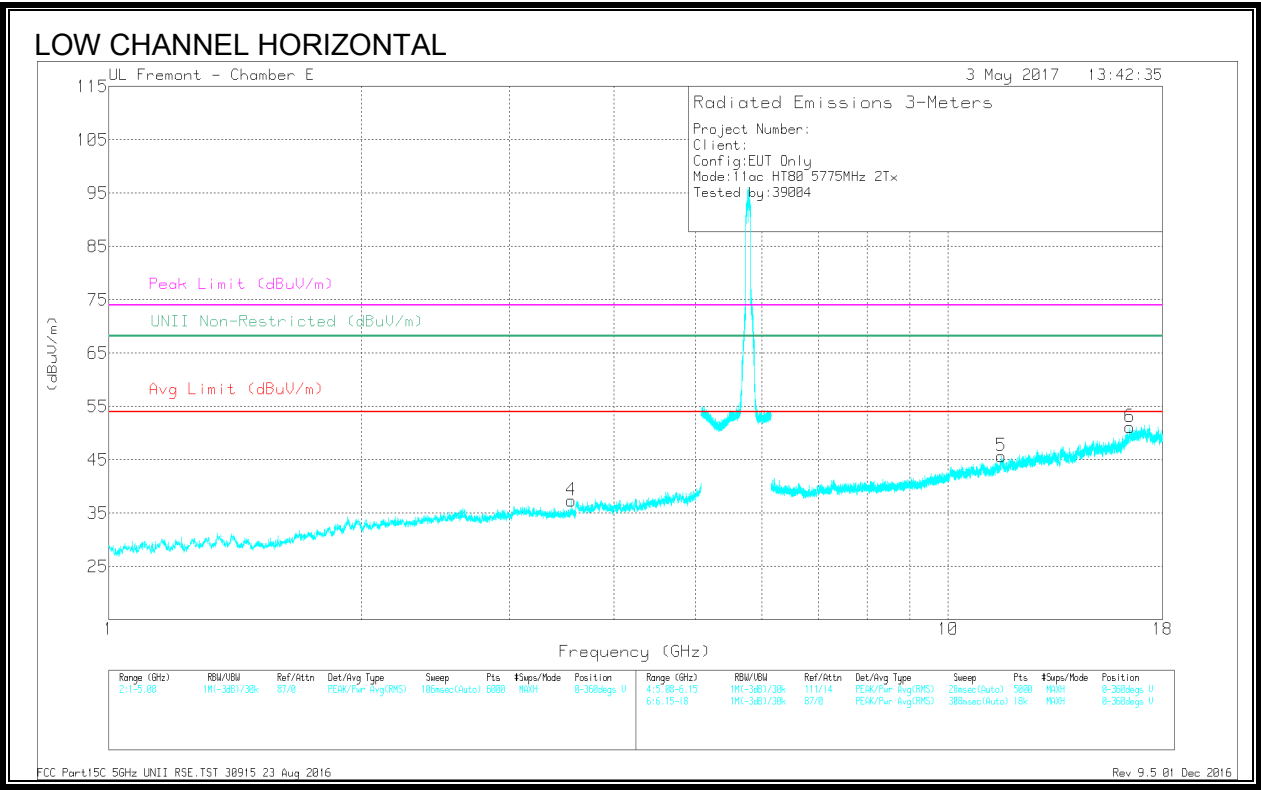
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl /Filtr/Pa d (dB)	Conversi on Factor (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.57	Pk	35	-17.5	11.8	-14.27	26.98	-41.25	47	219	H
2	5.929	-61.59	Pk	35	-17.3	11.8	-32.09	-27	-5.09	47	219	H

Pk - Peak detector



Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T120 (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	-49.34	Pk	35	-17.5	11.8	-20.04	26.99	-47.03	0	345	V
2	5.926	-64.27	Pk	35	-17.4	11.8	-34.87	-27	-7.87	0	345	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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
4	* 3.556	40.96	PK-U	32.8	-30.3	0	43.46	-	-	74	-30.54	-	-	114	116	V
	* 3.557	28.78	ADR	32.8	-30.3	.2	31.48	54	-22.52	-	-	-	-	114	116	V
2	* 7.703	39.5	PK-U	36.1	-27	0	48.6	-	-	74	-25.4	-	-	213	127	H
	* 7.703	27.01	ADR	36.1	-27	.2	36.31	54	-17.69	-	-	-	-	213	127	H
3	* 9.368	37.47	PK-U	36.5	-26.1	0	47.87	-	-	74	-26.13	-	-	25	313	H
	* 9.368	26.1	ADR	36.5	-26.1	.2	36.7	54	-17.3	-	-	-	-	25	313	H
5	* 11.567	36.02	PK-U	38.1	-21.9	0	52.22	-	-	74	-21.78	-	-	290	135	V
	* 11.567	24.48	ADR	38.1	-21.9	.2	40.88	54	-13.12	-	-	-	-	290	135	V
1	3.095	41.68	PK-U	33.1	-30.8	0	43.98	-	-	-	-	68.2	-24.22	128	300	H
6	16.448	37.53	PK-U	41.8	-21.1	0	58.23	-	-	-	-	68.2	-9.97	69	176	V

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

PK-U - U-NII: Maximum Peak

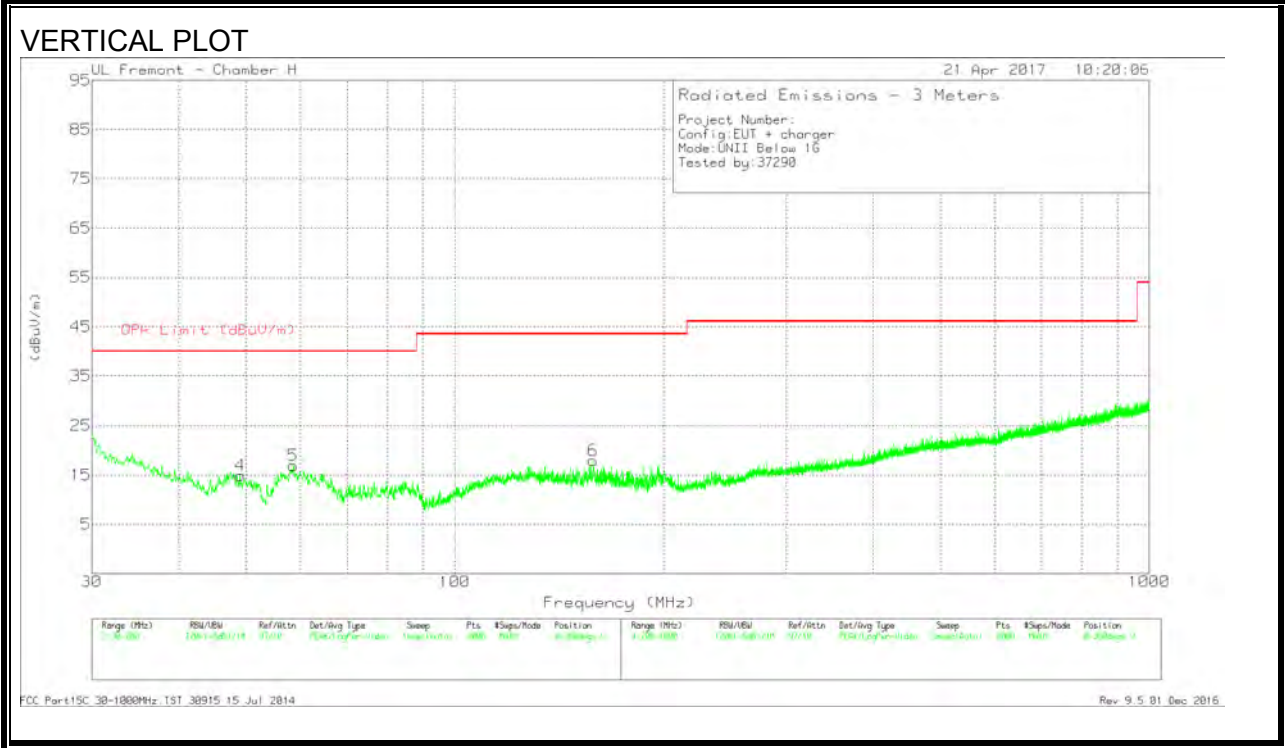
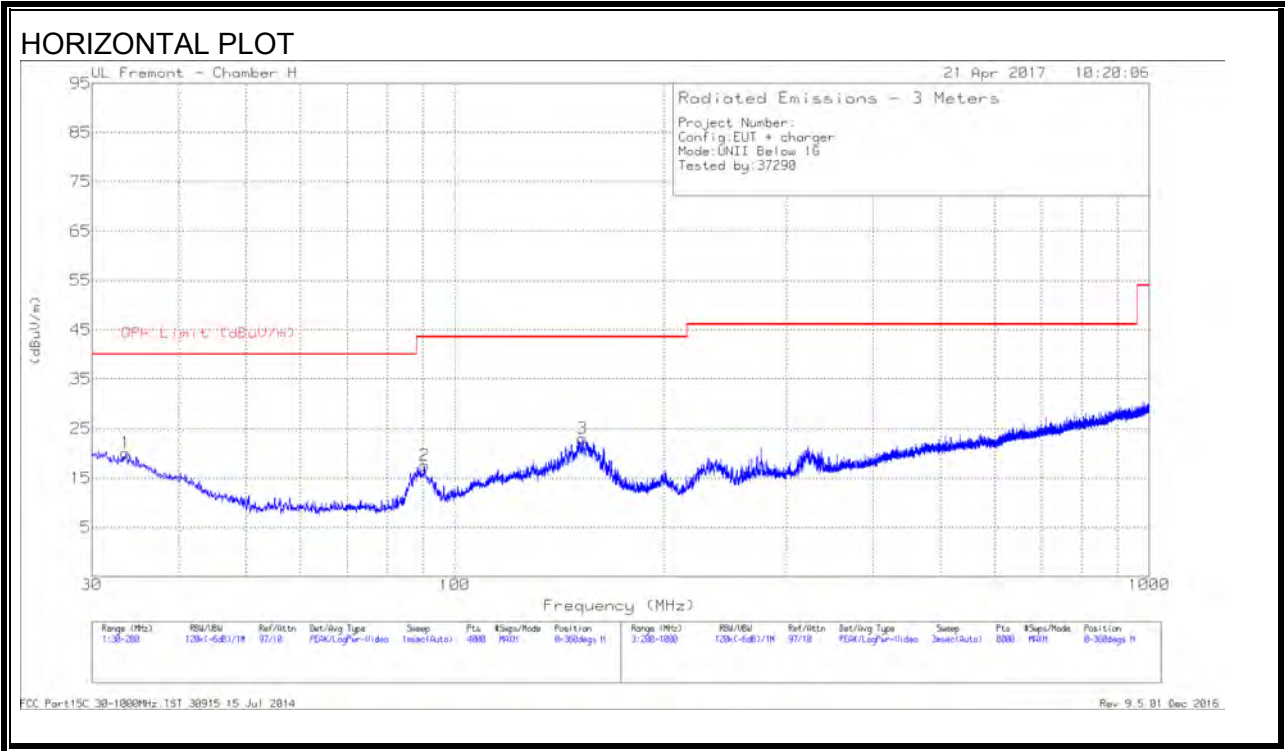
ADR - U-NII AD primary method, RMS average

FCC Part15C 5GHz UNII RSE.TST 30915 23 Aug 2016

Rev 9.5 01 Dec 2016

9.2. WORST-CASE BELOW 1 GHz

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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT185 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.6134	29.77	Pk	21.6	-31.3	20.07	40	-19.93	0-360	399	H
4	49.0874	33.63	Pk	12.4	-31.1	14.93	40	-25.07	0-360	100	V
5	58.5674	36.48	Pk	11.4	-30.9	16.98	40	-23.02	0-360	100	V
2	90.4294	36.45	Pk	11.7	-30.6	17.55	43.52	-25.97	0-360	199	H
3	152.8143	36.97	Pk	16.2	-30.1	23.07	43.52	-20.45	0-360	199	H
6	158.2132	31.98	Pk	16	-30	17.98	43.52	-25.54	0-360	100	V

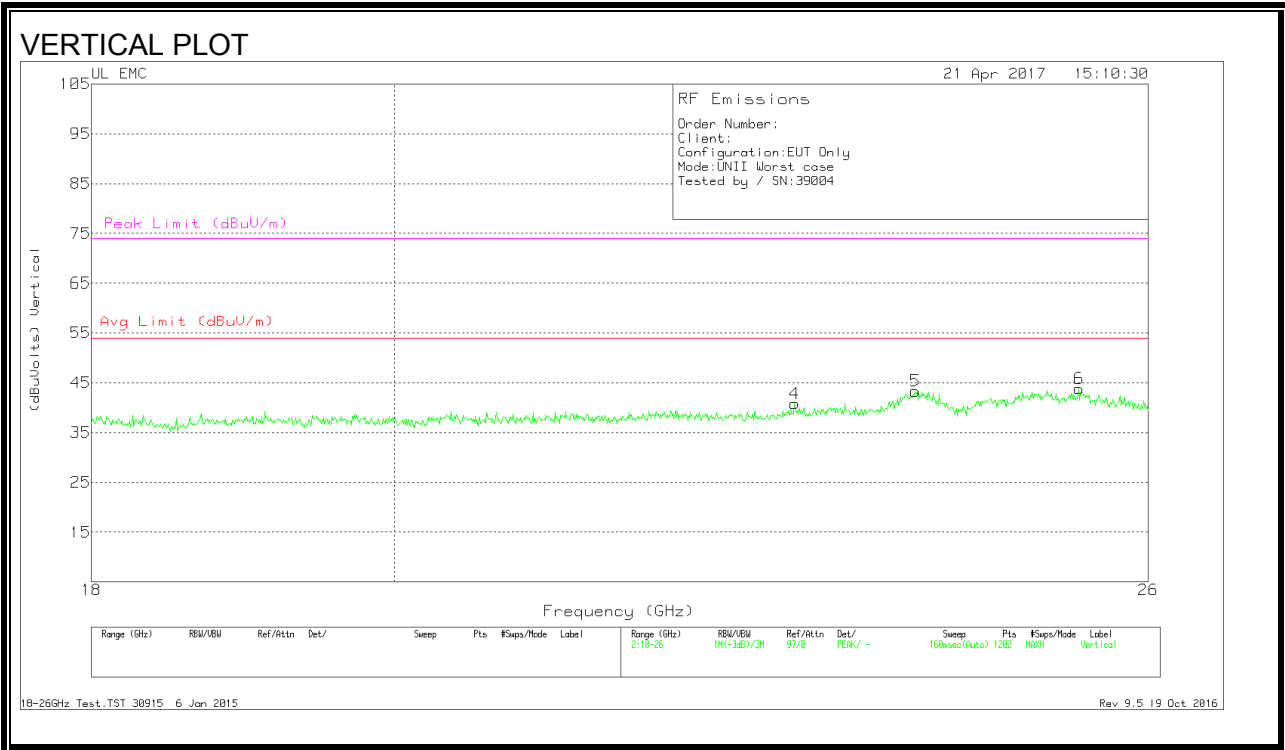
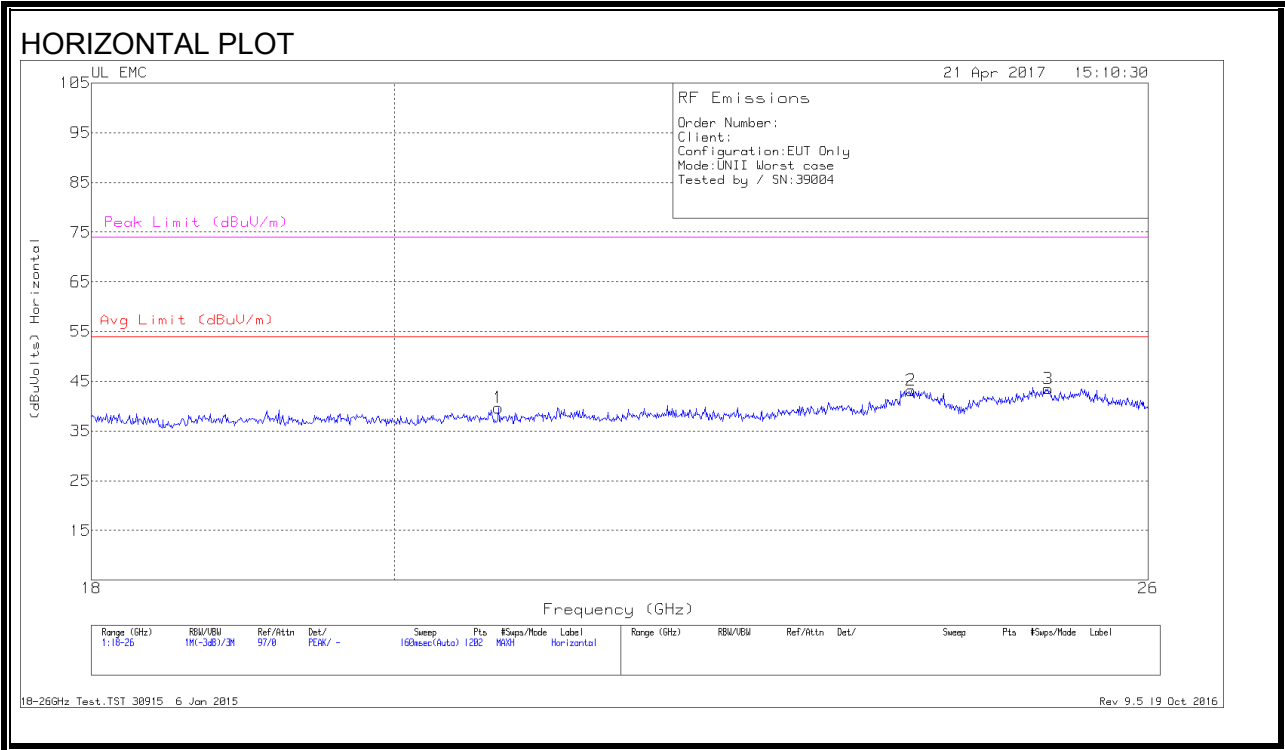
Pk - Peak detector

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

Rev 9.5 01 Dec 2016

9.3. WORST-CASE 18 to 26 GHz

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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (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	20.738	41.27	Pk	33	-25.1	-9.5	39.66	54	-14.33	74	-34.33
2	23.942	42.87	Pk	34	-24.2	-9.5	43.16	54	-10.83	74	-30.83
3	25.107	43.2	Pk	34.3	-24.5	-9.5	43.5	54	-10.5	74	-30.5
4	22.989	41.83	Pk	33.4	-24.9	-9.5	40.83	54	-13.16	74	-33.16
5	23.975	43.03	Pk	34	-24.2	-9.5	43.33	54	-10.66	74	-30.66
6	25.381	43.53	Pk	34.3	-24.5	-9.5	43.83	54	-10.16	74	-30.16

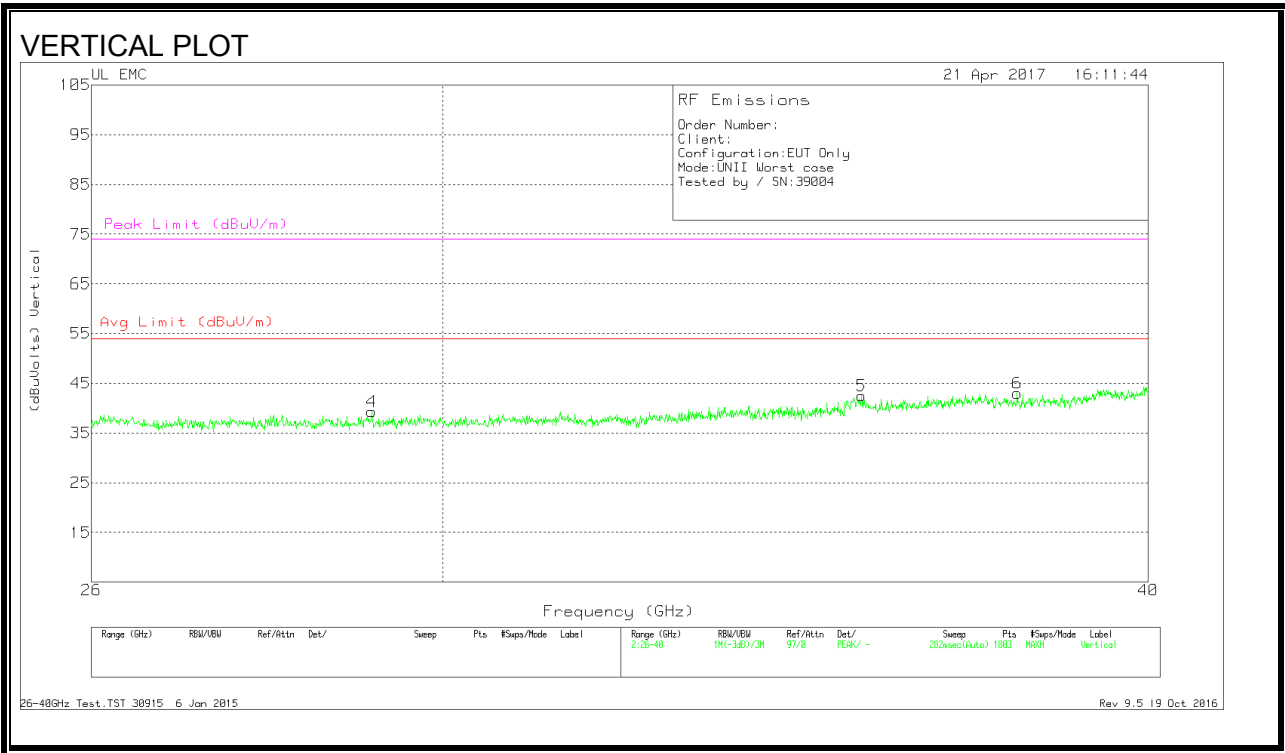
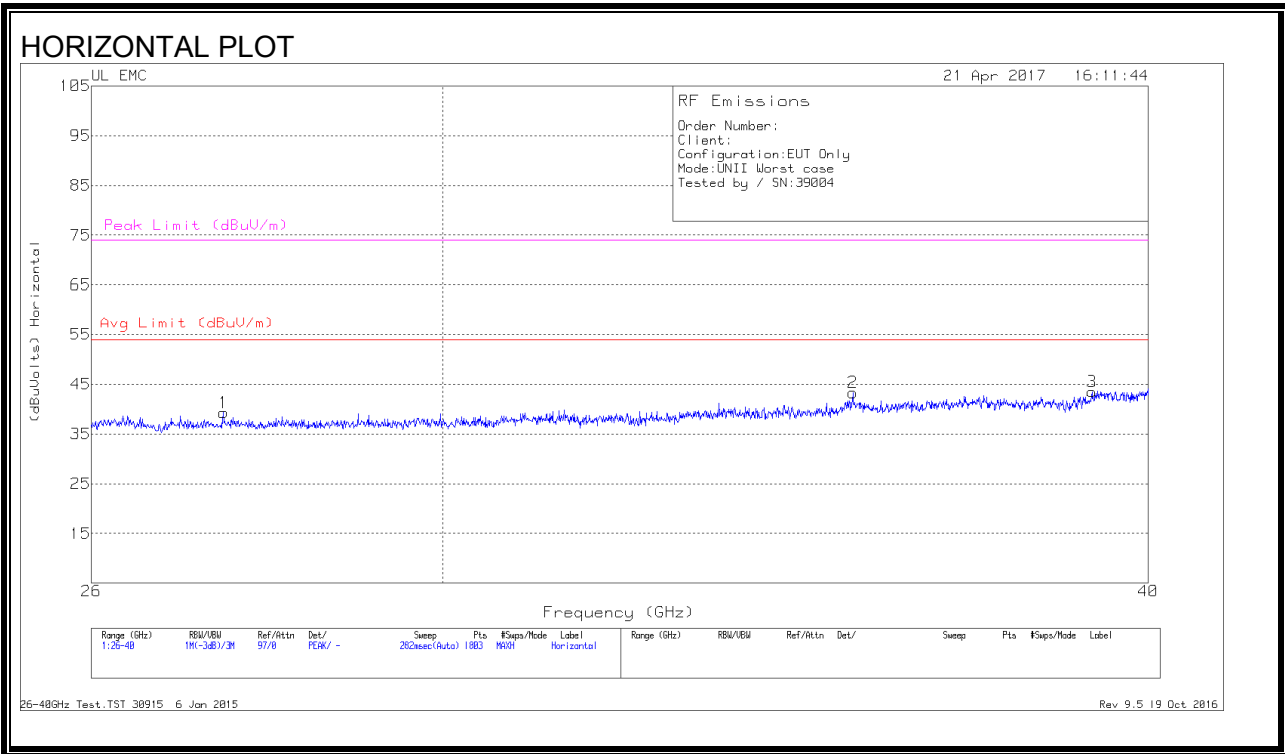
Pk - Peak detector

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	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.437	44.93	Pk	35.7	-31.8	-9.5	39.33	54	-14.66	74	-34.66
2	35.463	48.93	Pk	37.9	-34	-9.5	43.33	54	-10.66	74	-30.66
3	39.091	48	Pk	37.7	-32.7	-9.5	43.5	54	-10.5	74	-30.5
4	29.147	45.63	Pk	35.9	-32.7	-9.5	39.33	54	-14.66	74	-34.66
5	35.587	48.6	Pk	37.7	-34.3	-9.5	42.5	54	-11.5	74	-31.5
6	37.918	49.2	Pk	37.2	-33.9	-9.5	43	54	-11	74	-31

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.

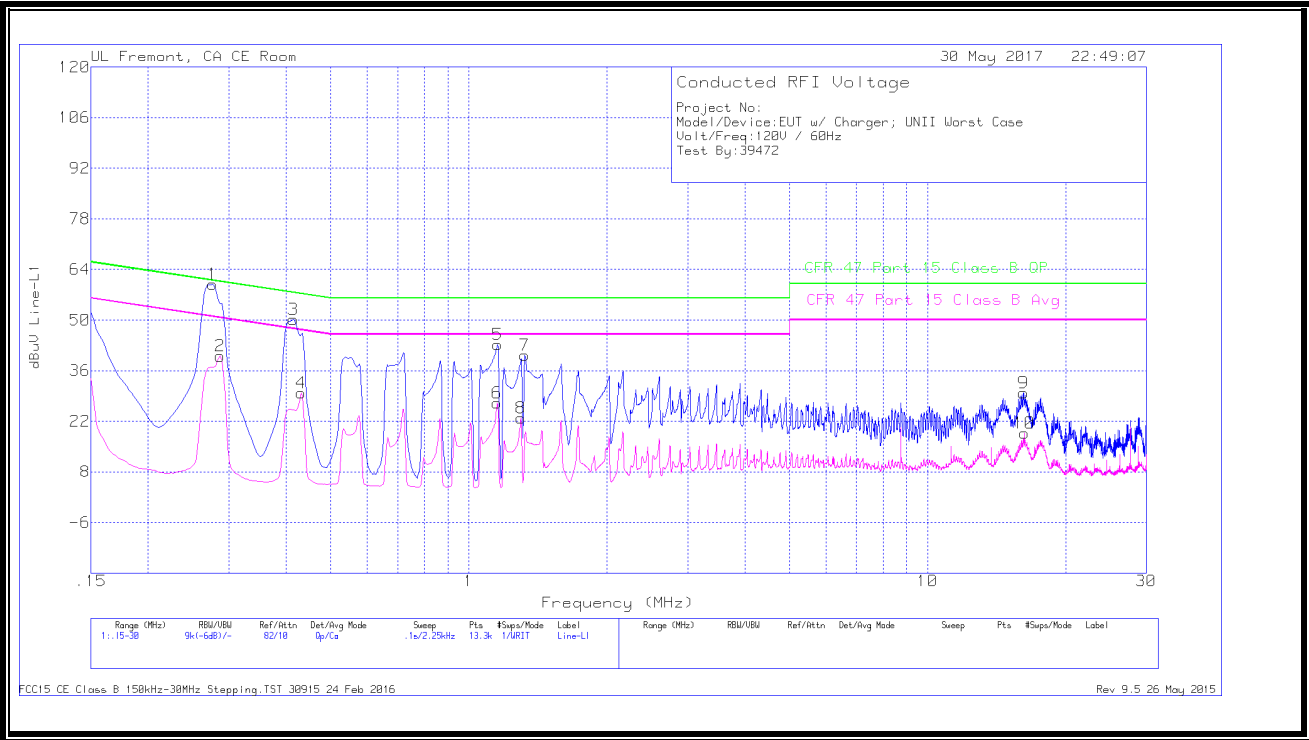
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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



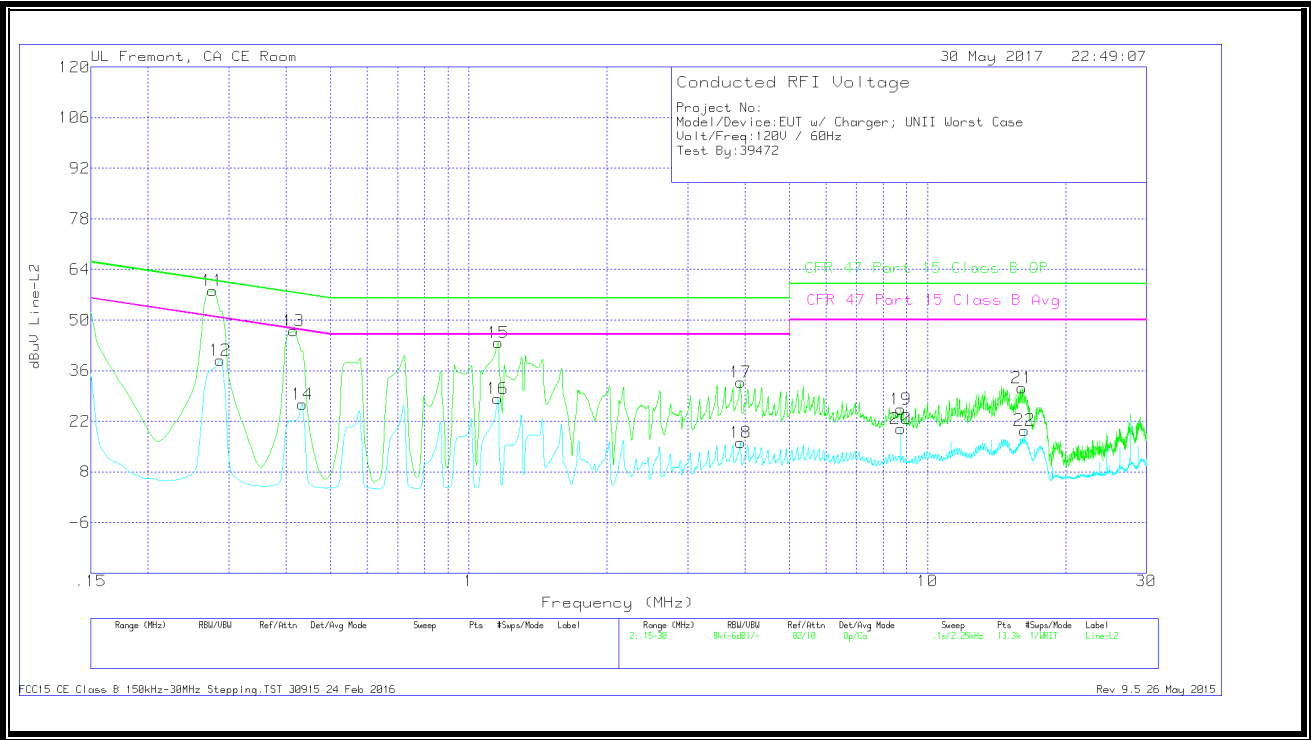
WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN 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	.276	49.73	Qp	0	.1	10.1	59.93	60.94	-1.01	-	-
2	.28725	29.81	Ca	0	.1	10.1	40.01	-	-	50.6	-10.59
3	.41437	39.9	Qp	0	.1	10.1	50.1	57.56	-7.46	-	-
4	.43125	19.59	Ca	0	.1	10.1	29.79	-	-	47.23	-17.44
5	1.15575	33.08	Qp	0	.1	10.1	43.28	56	-12.72	-	-
6	1.1535	16.88	Ca	0	.1	10.1	27.08	-	-	46	-18.92
7	1.3245	30.08	Qp	0	.1	10.1	40.28	56	-15.72	-	-
8	1.2975	12.65	Ca	0	.1	10.1	22.85	-	-	46	-23.15
9	16.1925	19.3	Qp	0	.2	10.3	29.8	60	-30.2	-	-
10	16.251	8.27	Ca	0	.2	10.3	18.77	-	-	50	-31.23

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

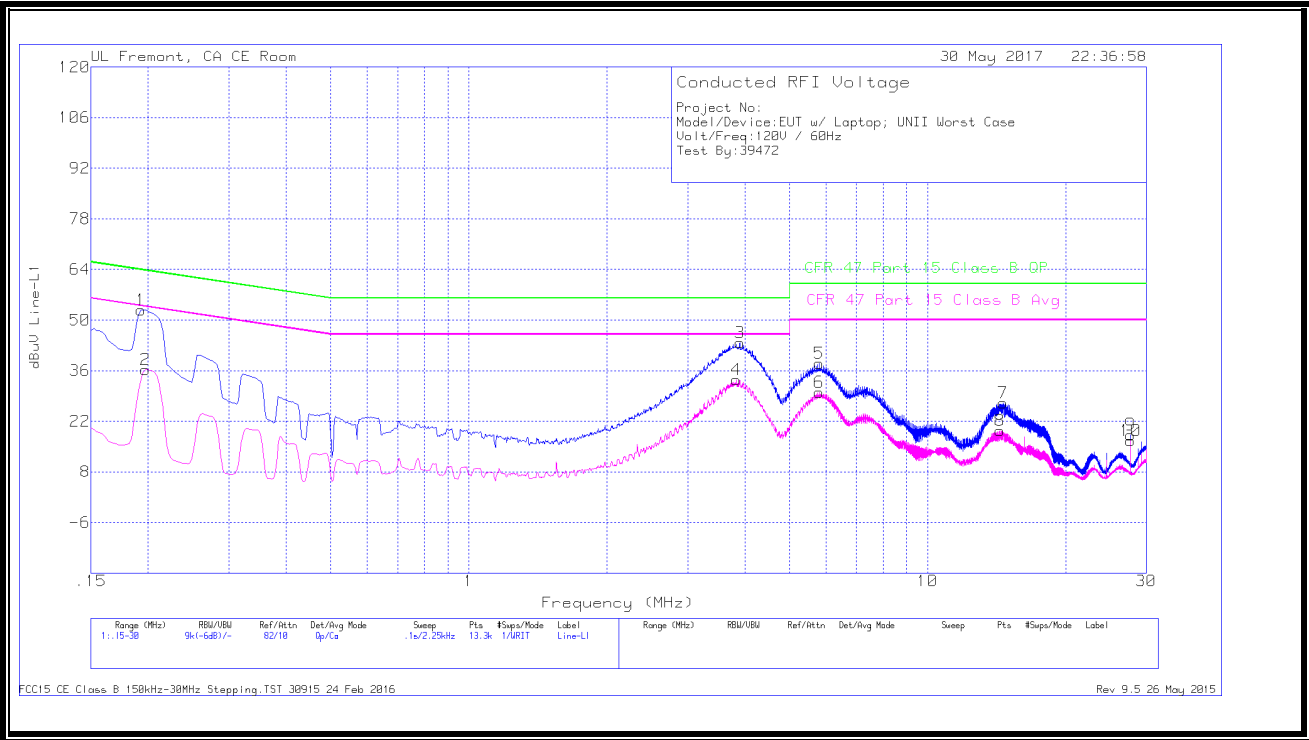
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
11	.276	48	Qp	0	0	10.1	58.1	60.94	-2.84	-	-
12	.28725	28.75	Ca	0	.1	10.1	38.95	-	-	50.6	-11.65
13	.4155	36.81	Qp	0	.1	10.1	47.01	57.54	-10.53	-	-
14	.4335	16.57	Ca	0	.1	10.1	26.77	-	-	47.19	-20.42
15	1.158	33.52	Qp	0	.1	10.1	43.72	56	-12.28	-	-
16	1.15575	18	Ca	0	.1	10.1	28.2	-	-	46	-17.8
17	3.912	22.58	Qp	0	.1	10.1	32.78	56	-23.22	-	-
18	3.90975	5.86	Ca	0	.1	10.1	16.06	-	-	46	-29.94
19	8.7495	14.91	Qp	0	.2	10.2	25.31	60	-34.69	-	-
20	8.7495	9.47	Ca	0	.2	10.2	19.87	-	-	50	-30.13
21	16.0868	20.74	Qp	0	.2	10.3	31.24	60	-28.76	-	-
22	16.251	8.99	Ca	0	.2	10.3	19.49	-	-	50	-30.51

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS



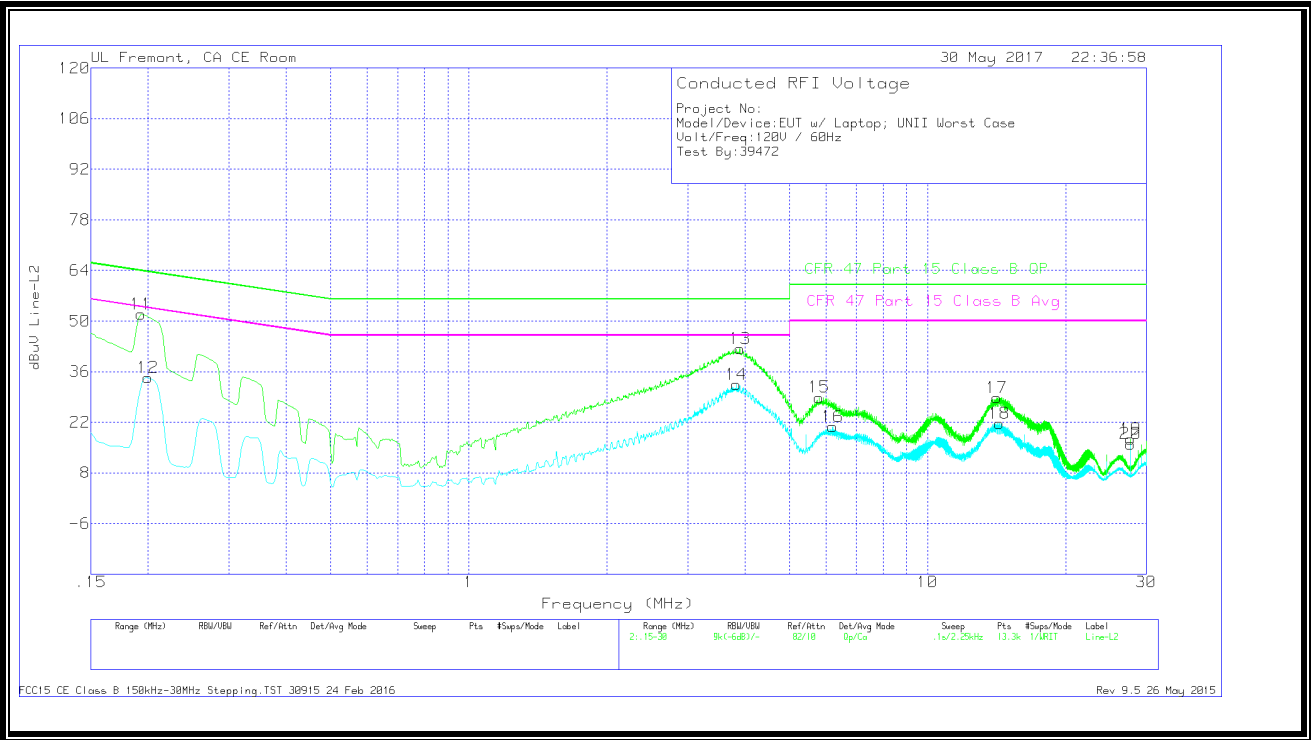
WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN 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	.19275	42.63	Qp	0	.1	10.1	52.83	63.92	-11.09	-	-
2	.19725	26.12	Ca	0	.1	10.1	36.32	-	-	53.73	-17.41
3	3.89625	33.62	Qp	0	.1	10.1	43.82	56	-12.18	-	-
4	3.82875	23.32	Ca	0	.1	10.1	33.52	-	-	46	-12.48
5	5.811	27.67	Qp	0	.1	10.2	37.97	60	-22.03	-	-
6	5.811	19.68	Ca	0	.1	10.2	29.98	-	-	50	-20.02
7	14.6198	16.61	Qp	0	.2	10.2	27.01	60	-32.99	-	-
8	14.3948	8.93	Ca	0	.2	10.2	19.33	-	-	50	-30.67
9	27.6923	7.37	Qp	.1	.3	10.5	18.27	60	-41.73	-	-
10	27.6923	5.74	Ca	.1	.3	10.5	16.64	-	-	50	-33.36

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN 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)
11	.19275	41.77	Qp	0	.1	10.1	51.97	63.92	-11.95	-	-
12	.1995	24.13	Ca	0	.1	10.1	34.33	-	-	53.63	-19.3
13	3.89625	32.2	Qp	0	.1	10.1	42.4	56	-13.6	-	-
14	3.82875	22.25	Ca	0	.1	10.1	32.45	-	-	46	-13.55
15	5.80875	18.58	Qp	0	.1	10.2	28.88	60	-31.12	-	-
16	6.2115	10.42	Ca	0	.2	10.2	20.82	-	-	50	-29.18
17	14.1698	18.36	Qp	.1	.2	10.2	28.86	60	-31.14	-	-
18	14.325	11.21	Ca	.1	.2	10.2	21.71	-	-	50	-28.29
19	27.6923	6.47	Qp	.1	.3	10.5	17.37	60	-42.63	-	-
20	27.6923	5.12	Ca	.1	.3	10.5	16.02	-	-	50	-33.98

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

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
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	25.8 °C
Humidity	27 %

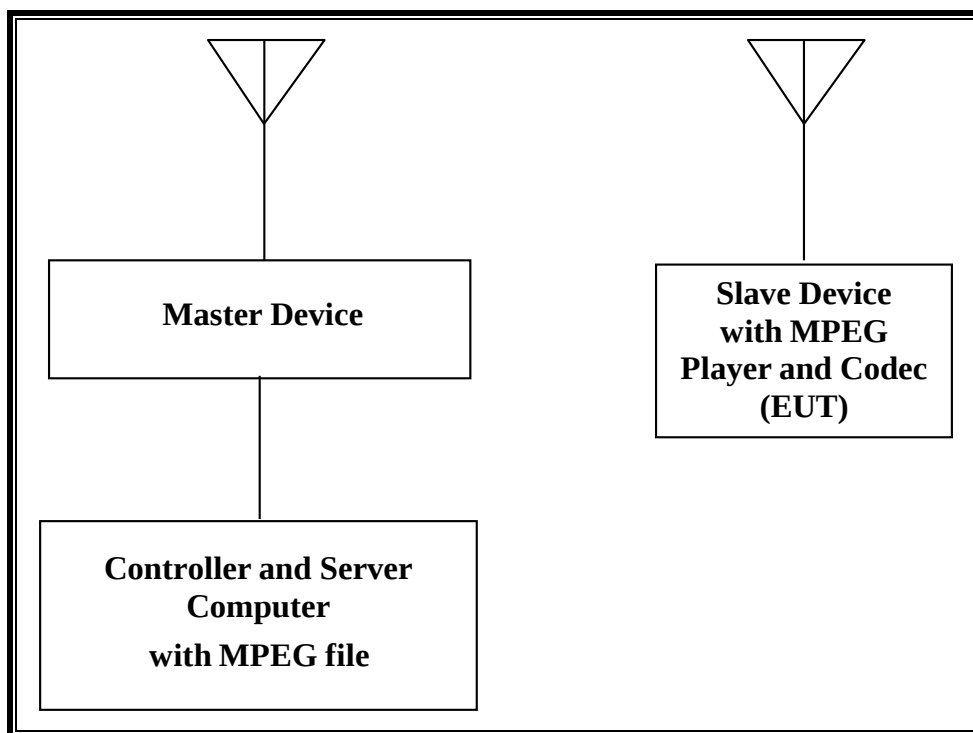
11.1.4. TEST AND MEASUREMENT SOFTWARE

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



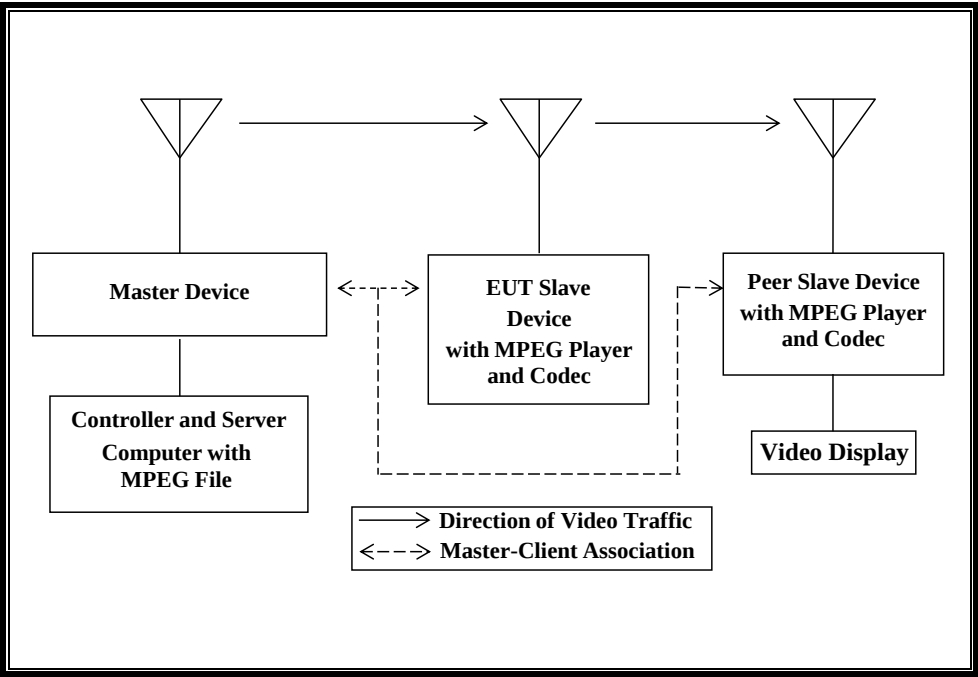
SUPPORT EQUIPMENT

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



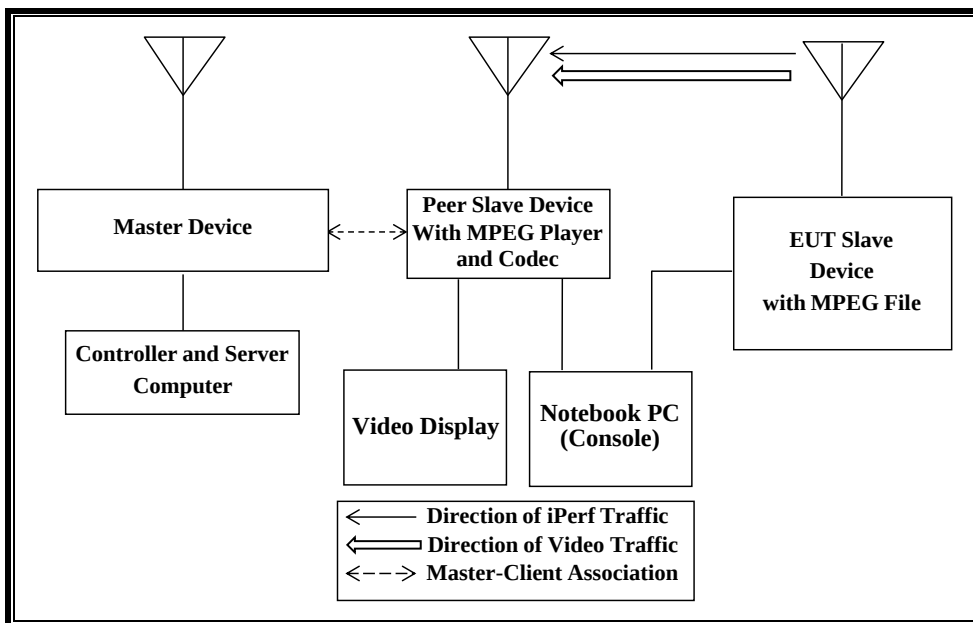
SUPPORT EQUIPMENT

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

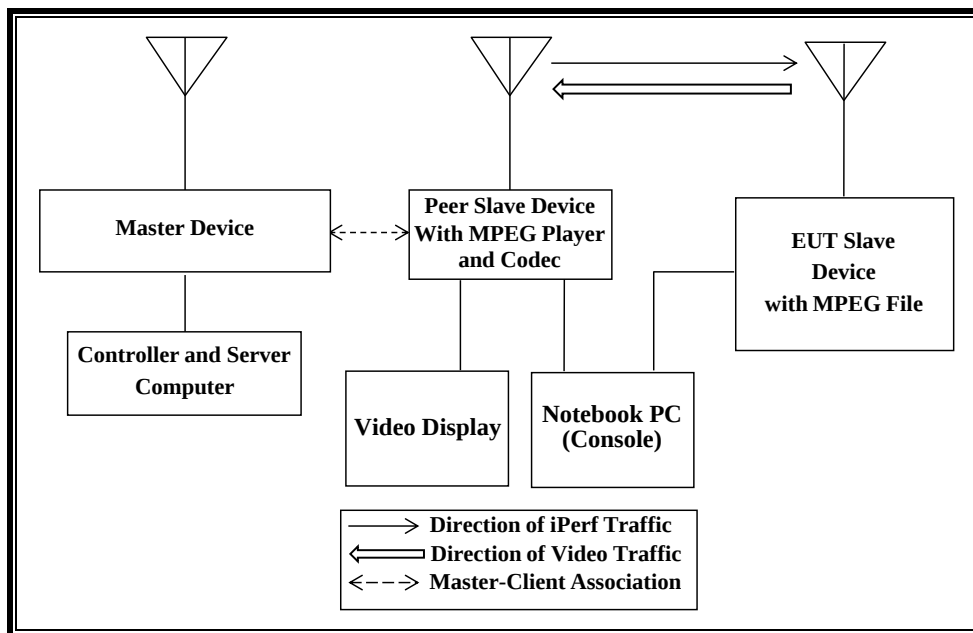
PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
802.11a/b/g/n/ac Wireless Router (Master Device)	Apple	A1521	C86LCE5GFJ1R	BCGA1521
Notebook PC (Controller/Server)	Apple	A1181	4H629022WLV	DoC
AC Adapter (Notebook PC)	Apple	A1343	C0424760BMPF1Y7AB	DoC
Peer Slave 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 21.97 dBm EIRP in the 5250-5350 MHz band and 22.90 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of -2.84 dBi and -0.46 dBi on UAT 2 and LAT 3 respectively in the 5250-5350 MHz band and -2.25 dBi and -0.41 dBi on UAT 2 and LAT 3 respectively 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 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 (15A284).

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

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

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

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

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

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

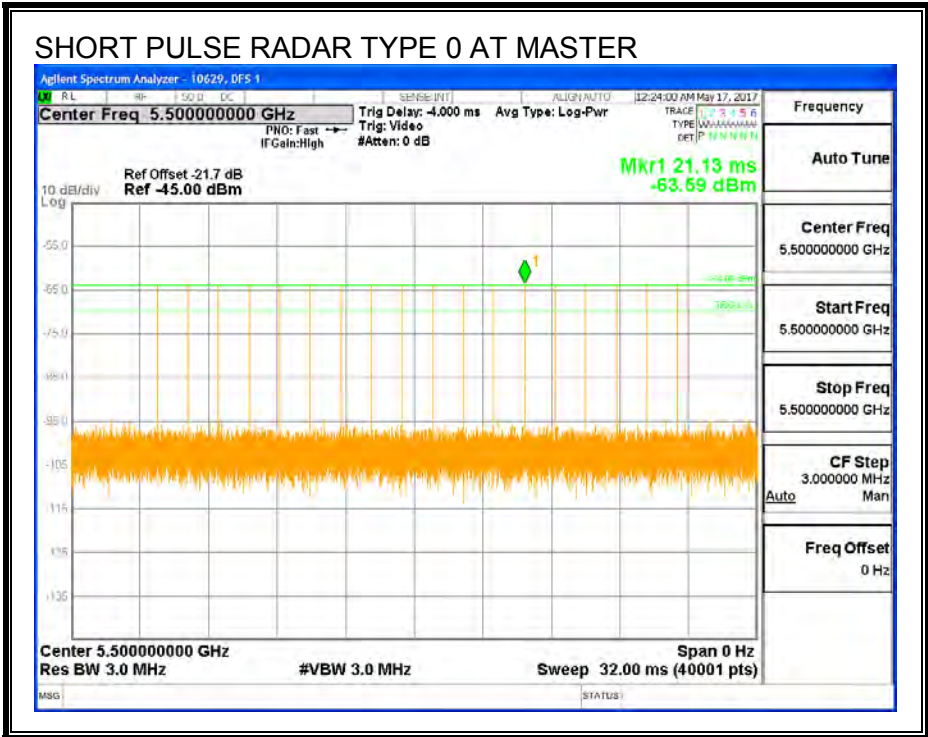
11.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

11.2.1. TEST CHANNEL

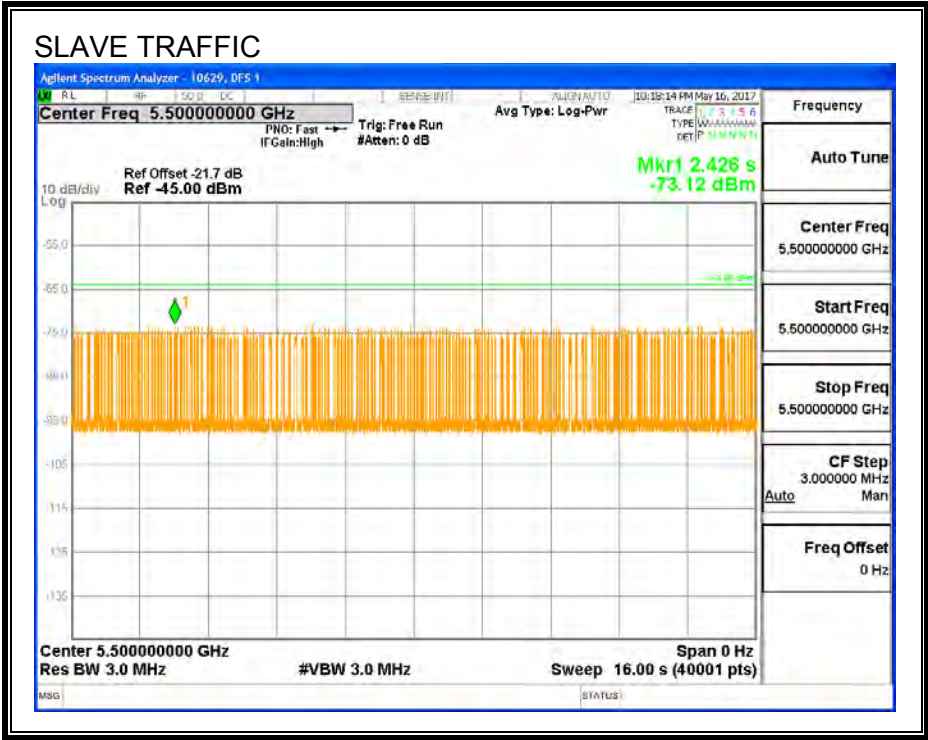
All tests were performed at a channel center frequency of 5500 MHz.

11.2.2. RADAR WAVEFORM AND TRAFFIC

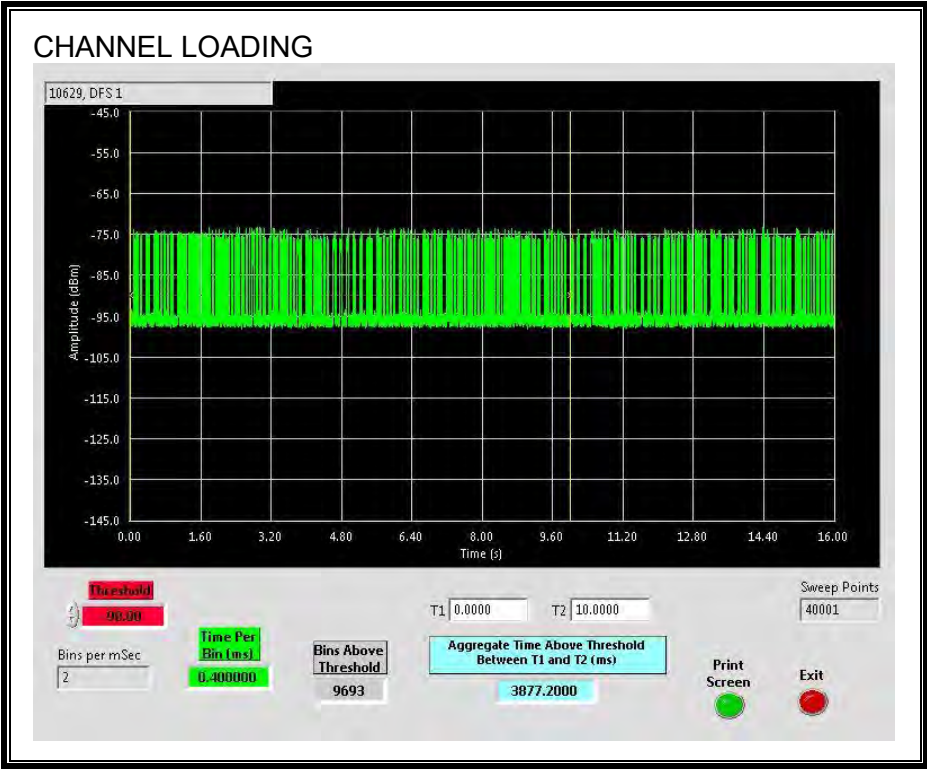
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 38.77%

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)

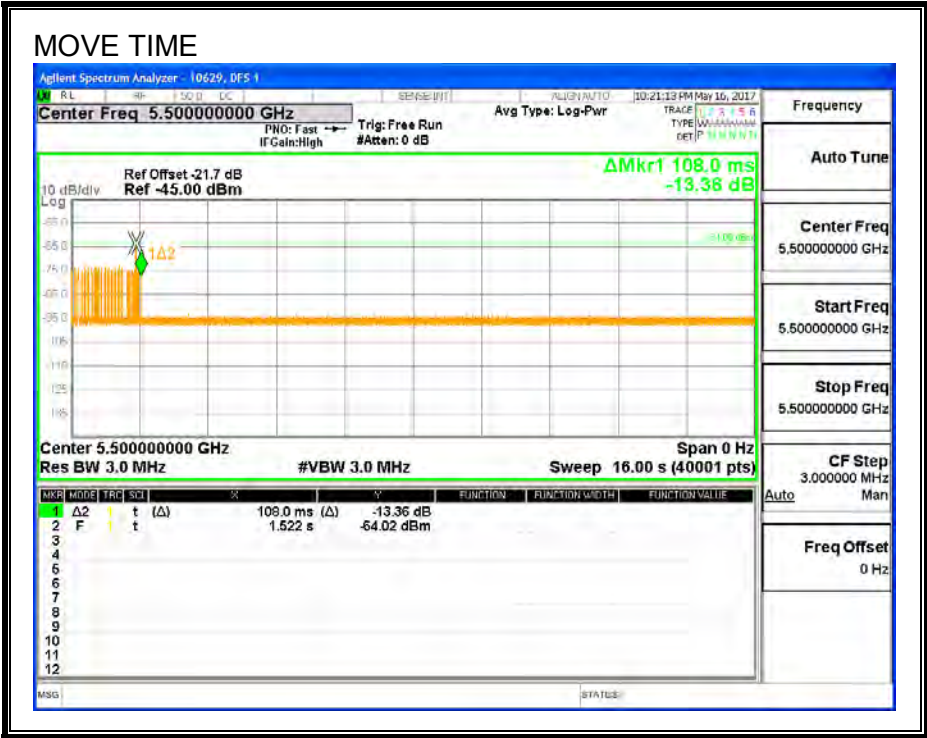
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

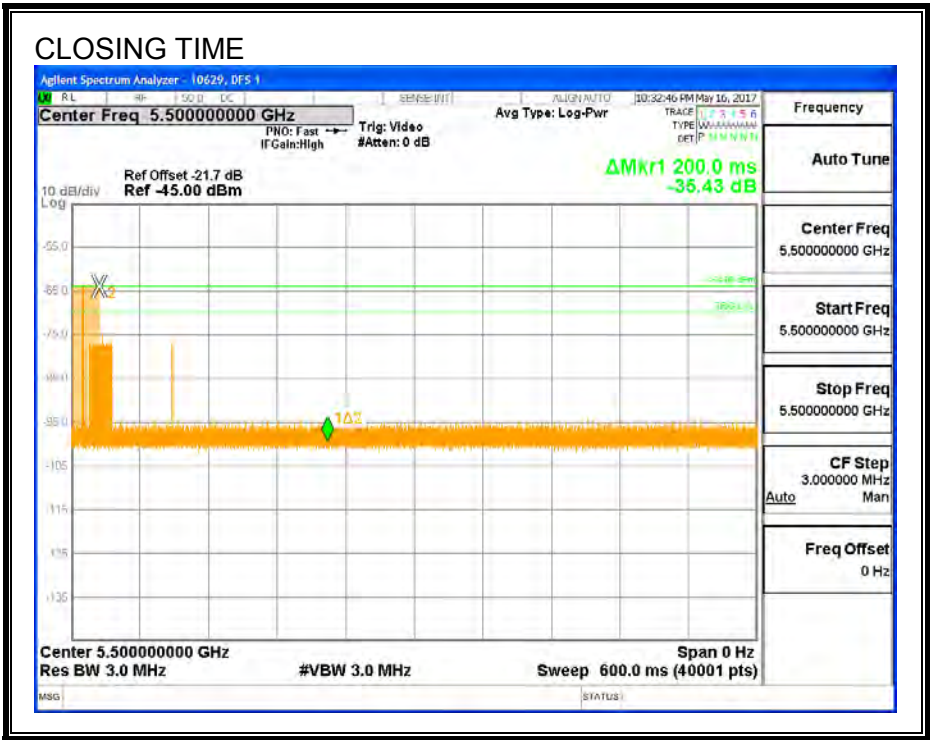
Channel Move Time (sec)	Limit (sec)
0.108	10

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

MOVE TIME

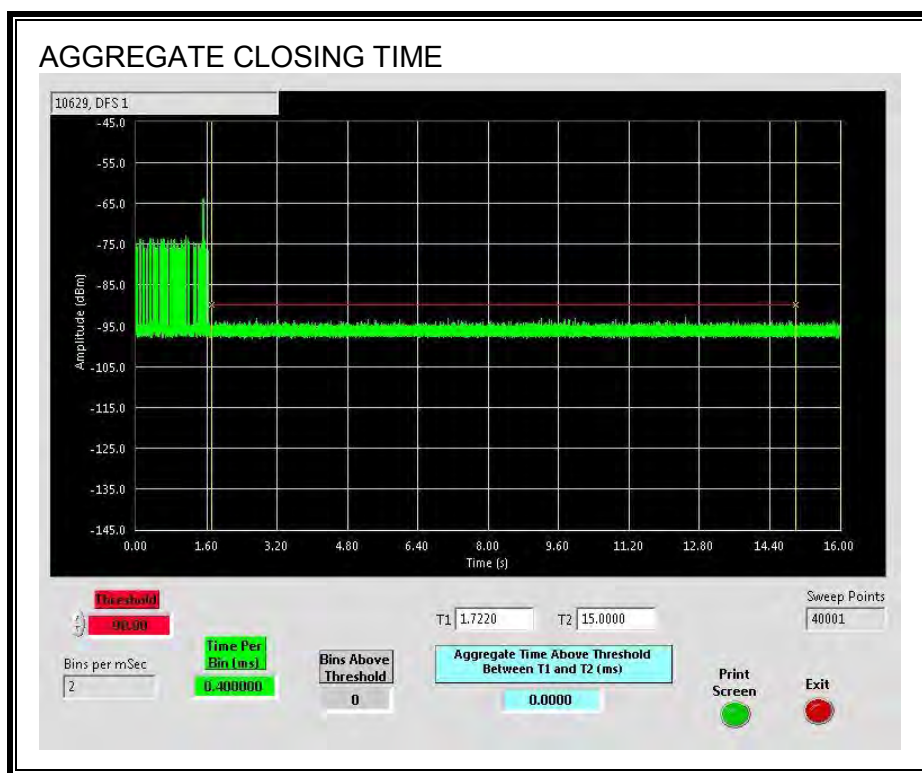


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



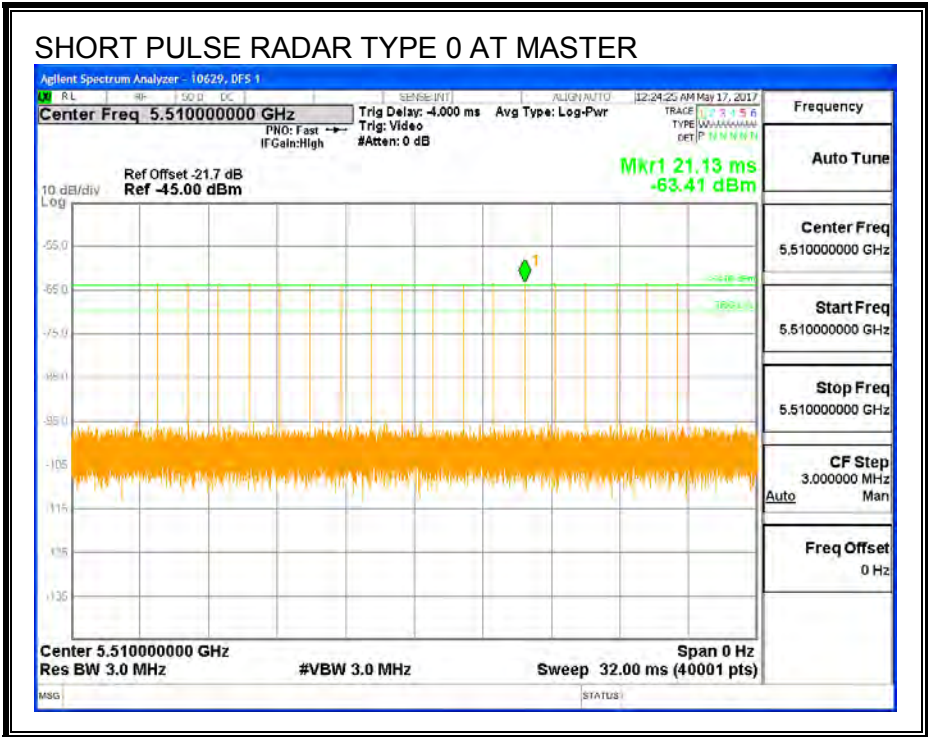
11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

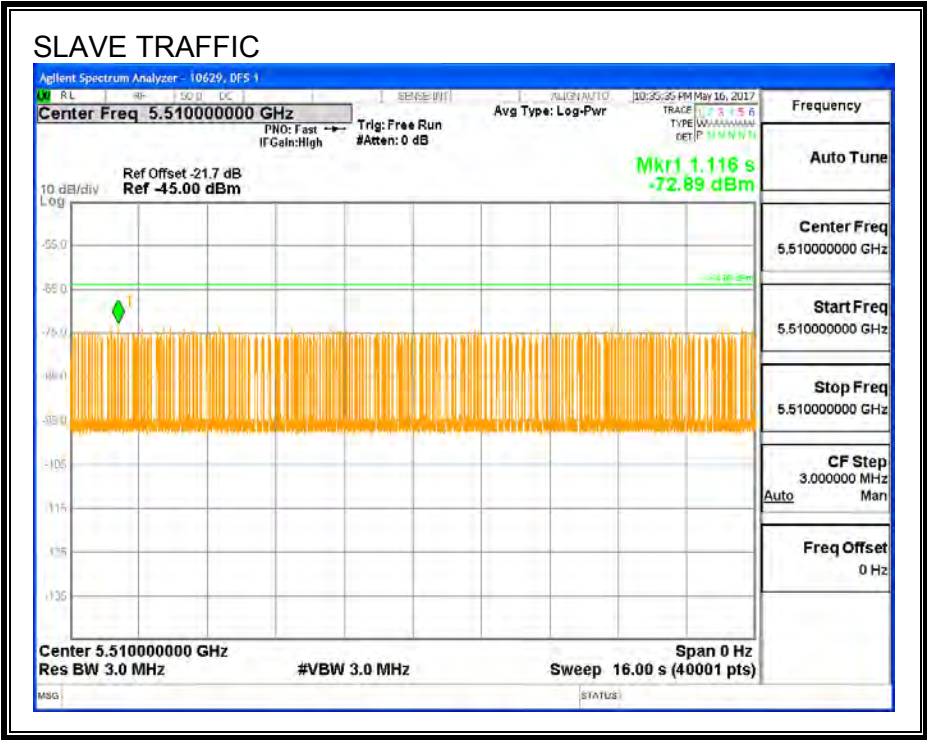
All tests were performed at a channel center frequency of 5510 MHz.

11.3.2. RADAR WAVEFORM AND TRAFFIC

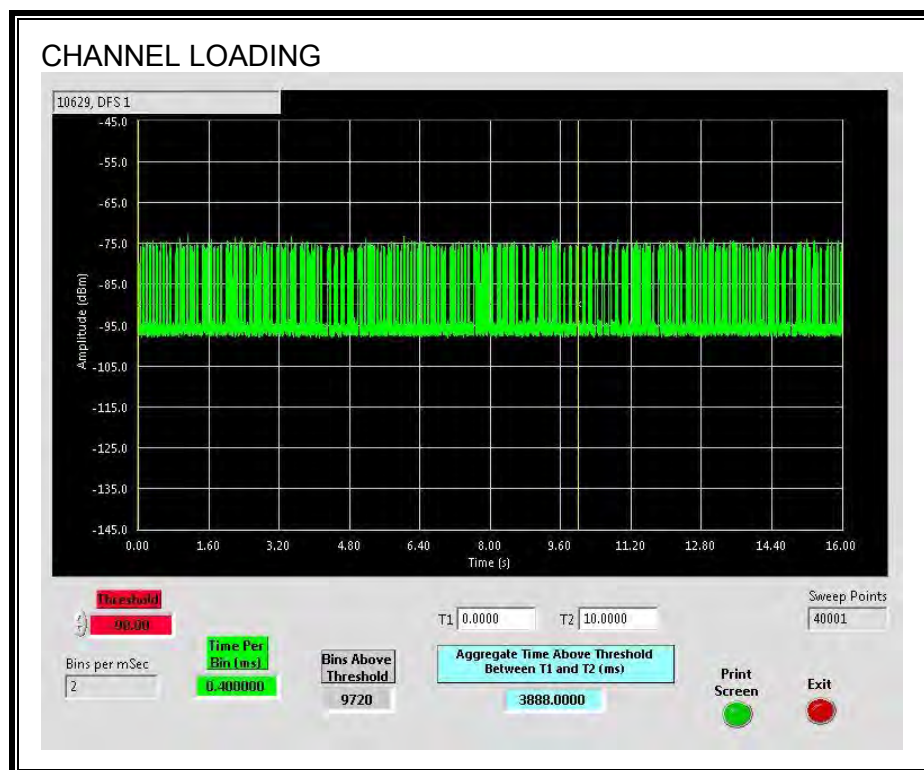
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 38.88%

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)

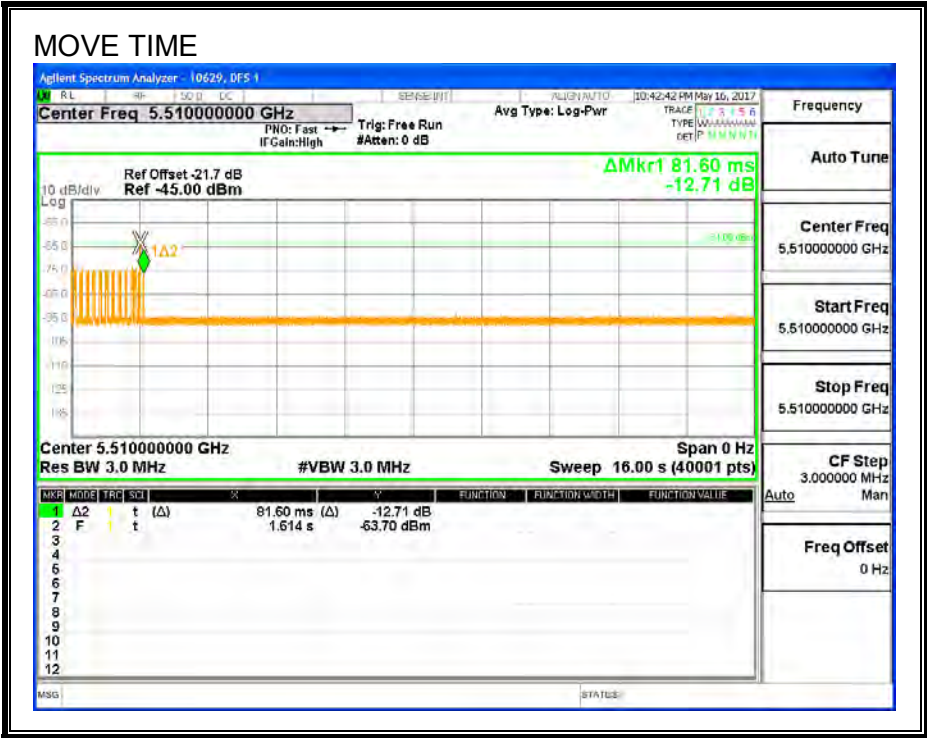
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

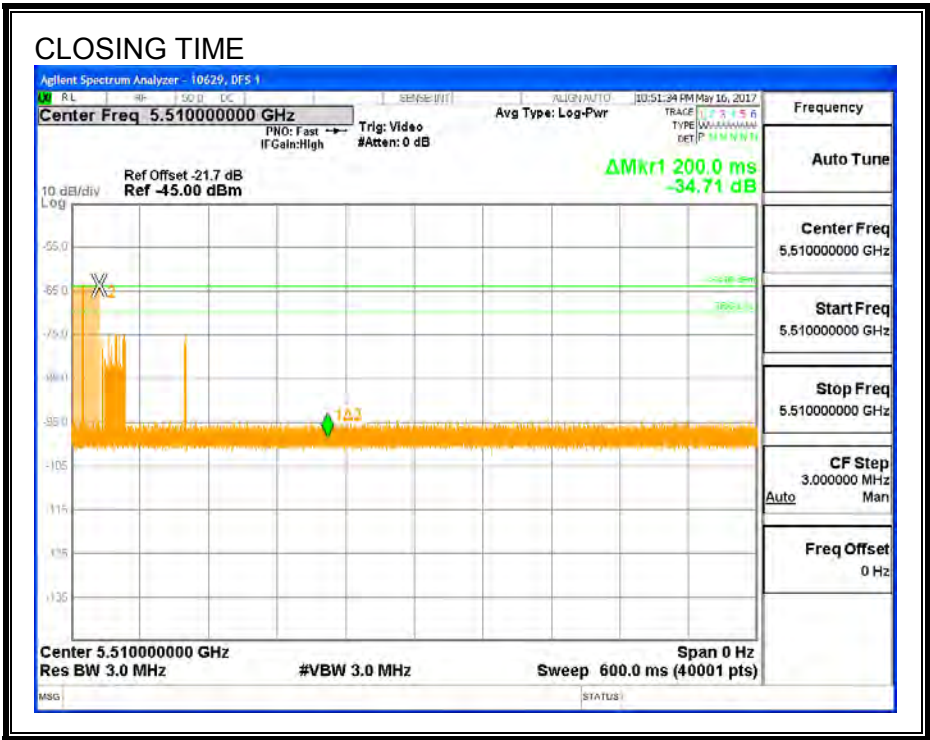
Channel Move Time (sec)	Limit (sec)
0.082	10

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

MOVE TIME

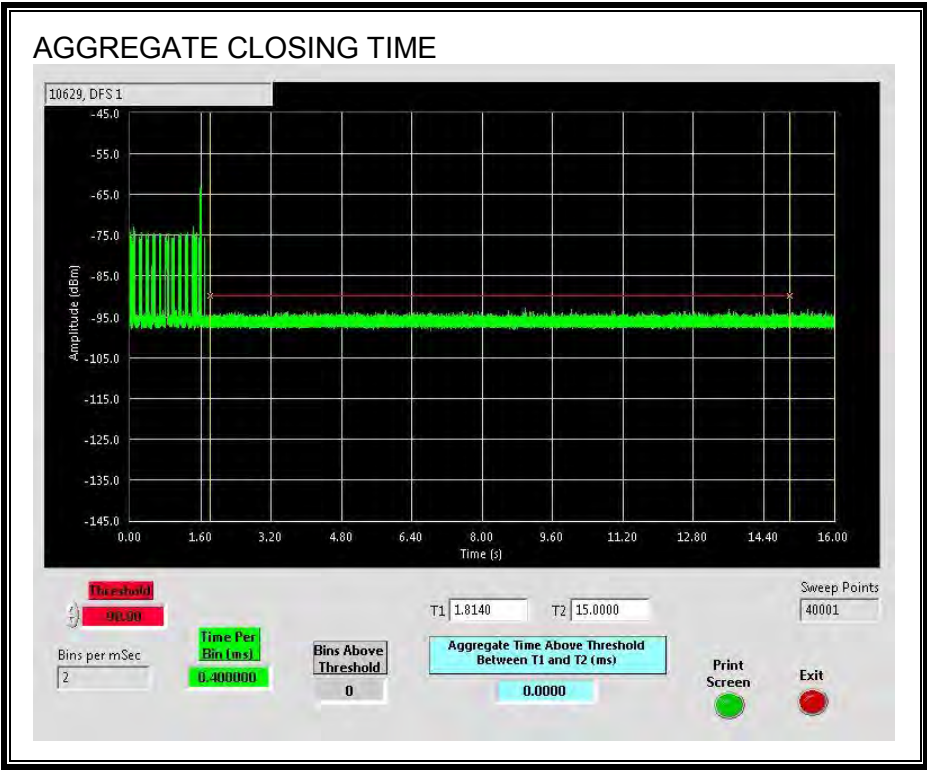


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



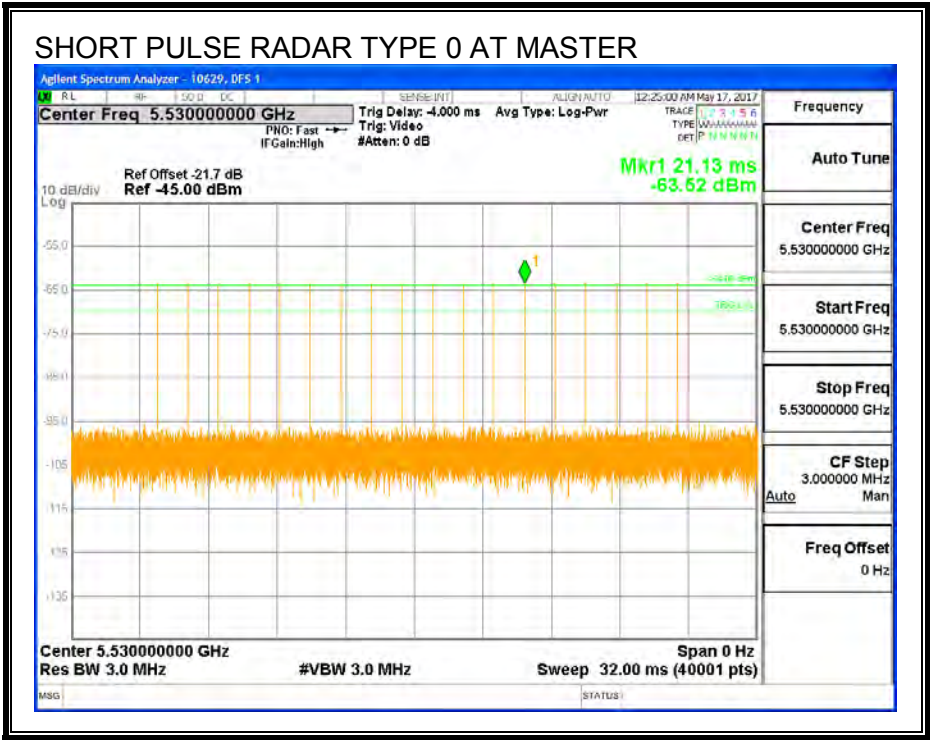
11.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

11.4.1. TEST CHANNEL

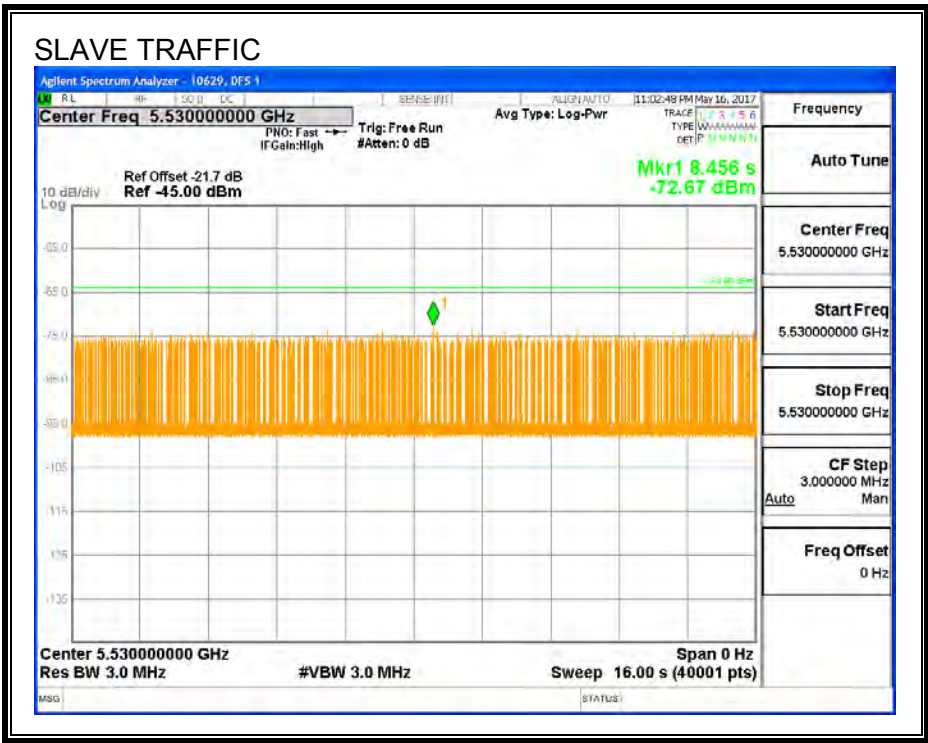
All tests were performed at a channel center frequency of 5530 MHz.

11.4.2. RADAR WAVEFORM AND TRAFFIC

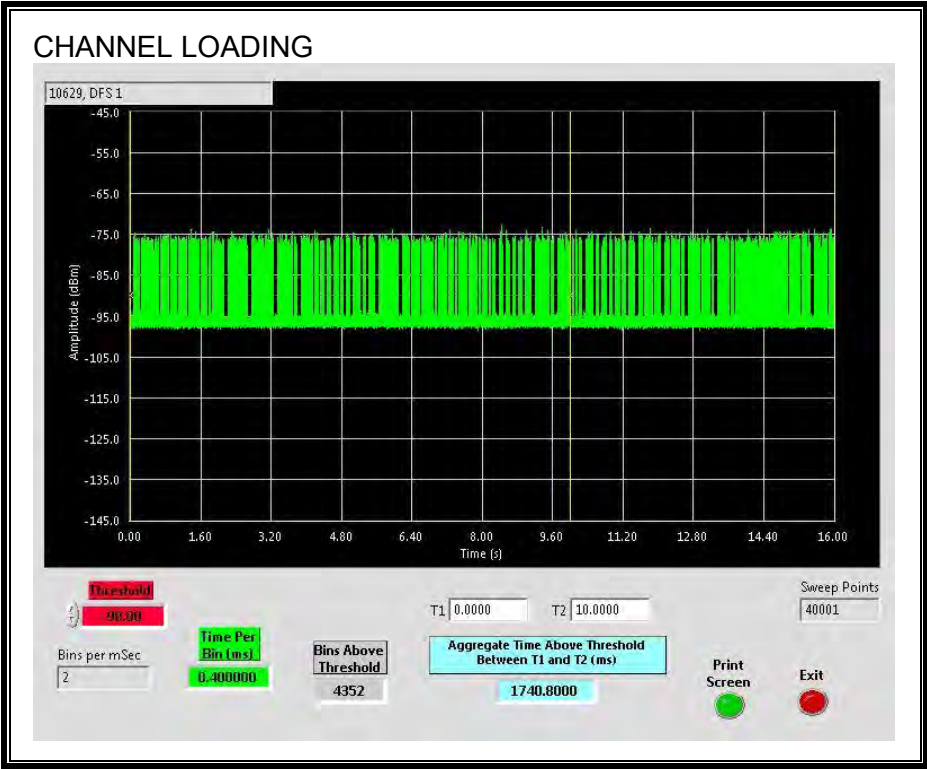
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.41%

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)

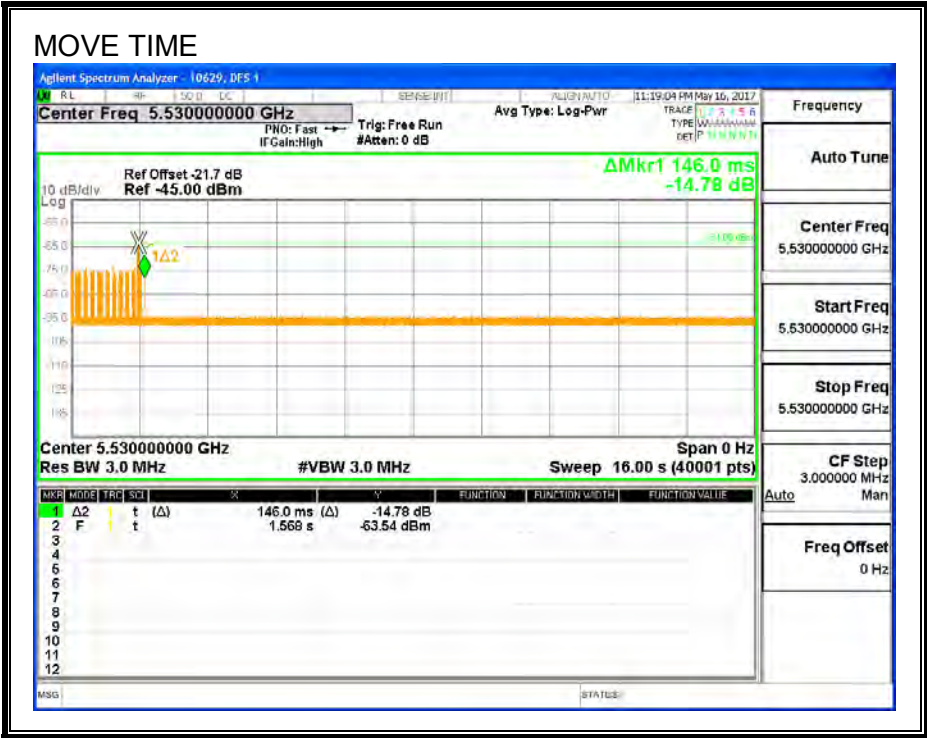
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

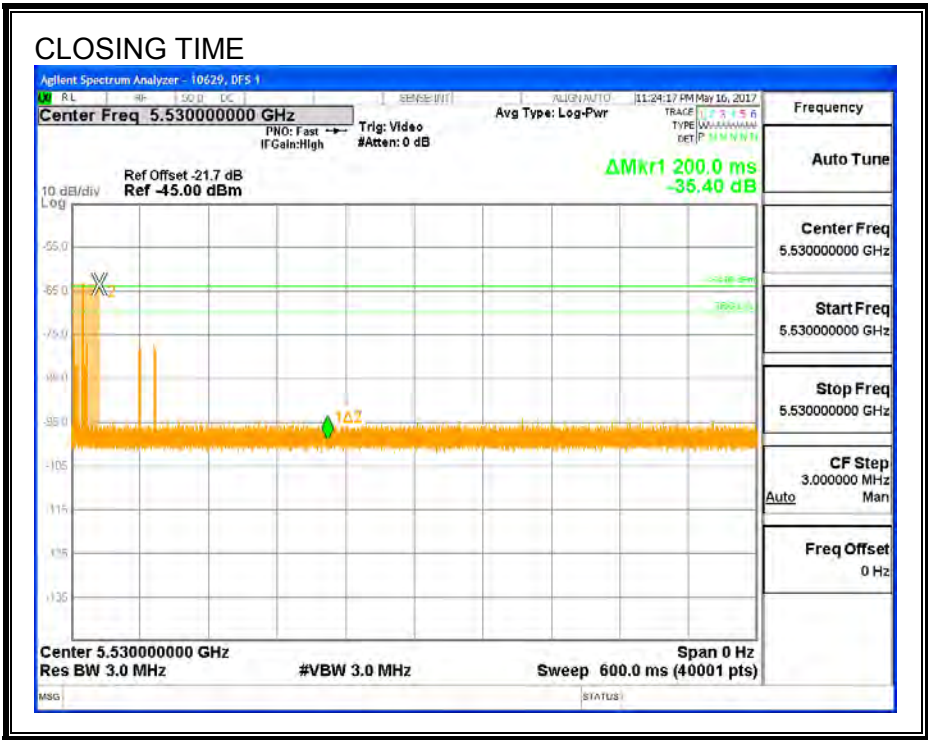
Channel Move Time (sec)	Limit (sec)
0.146	10

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

MOVE TIME

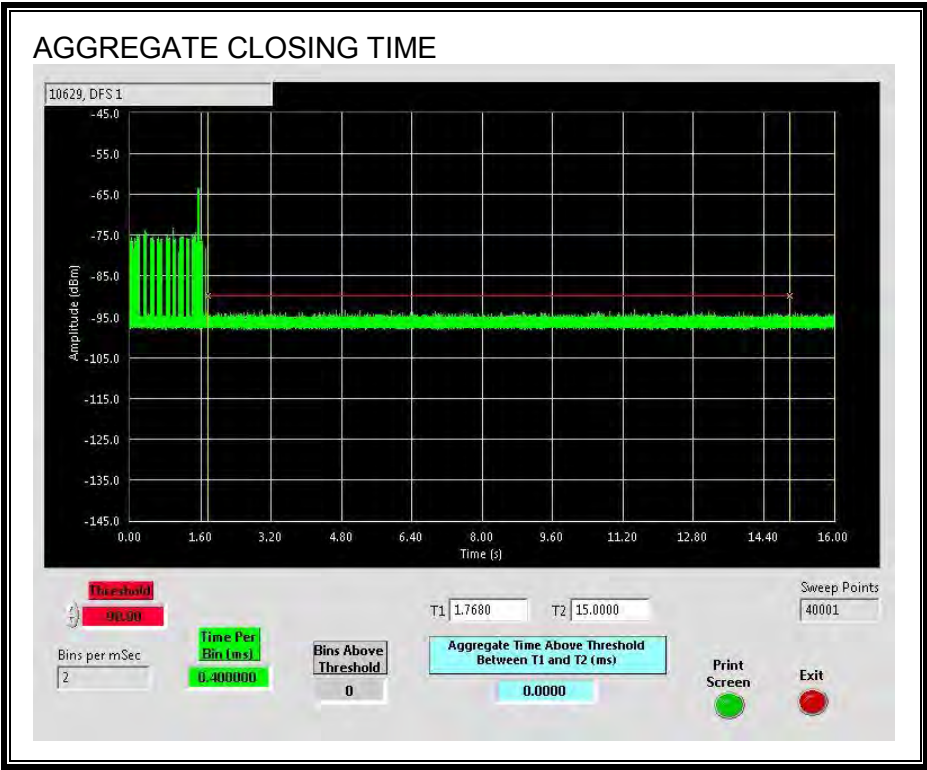


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

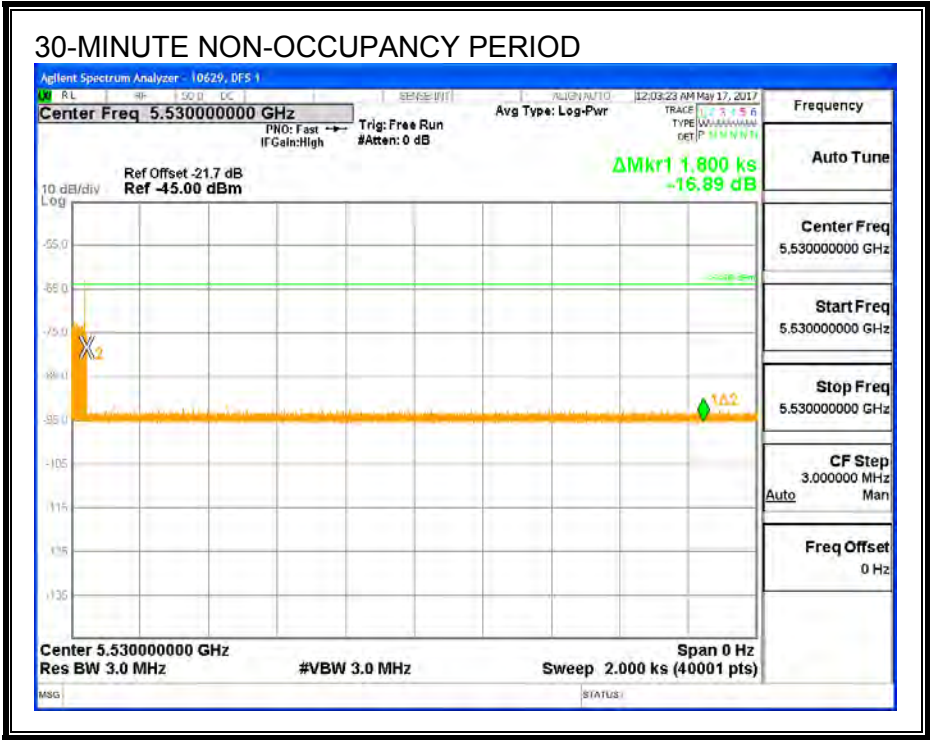
No transmissions are observed during the aggregate monitoring period.



11.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



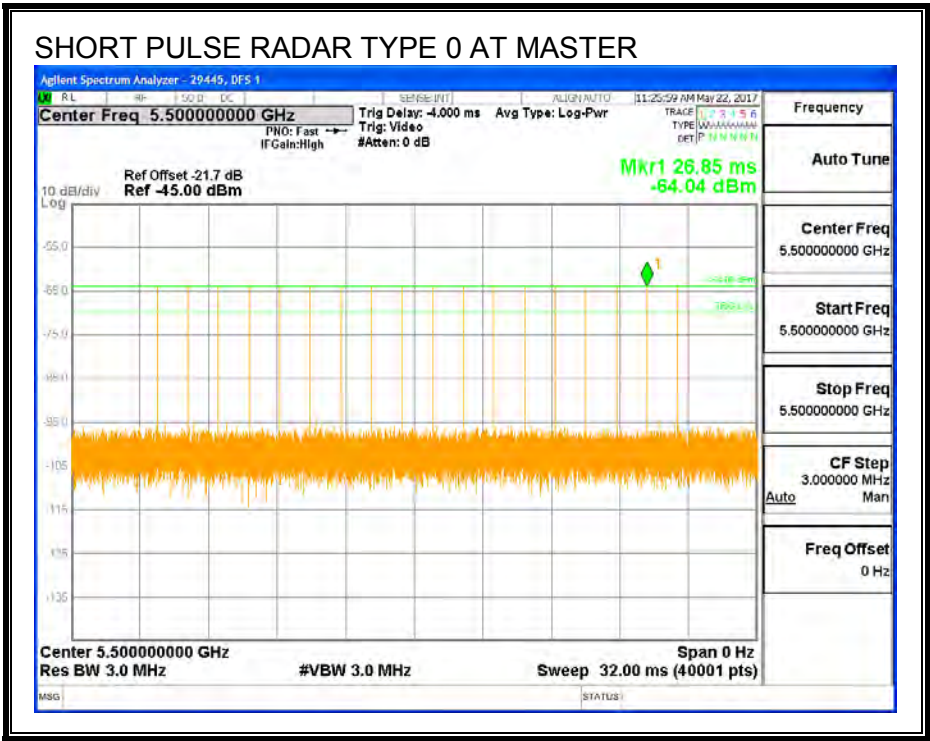
11.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

11.5.1. TEST CHANNEL

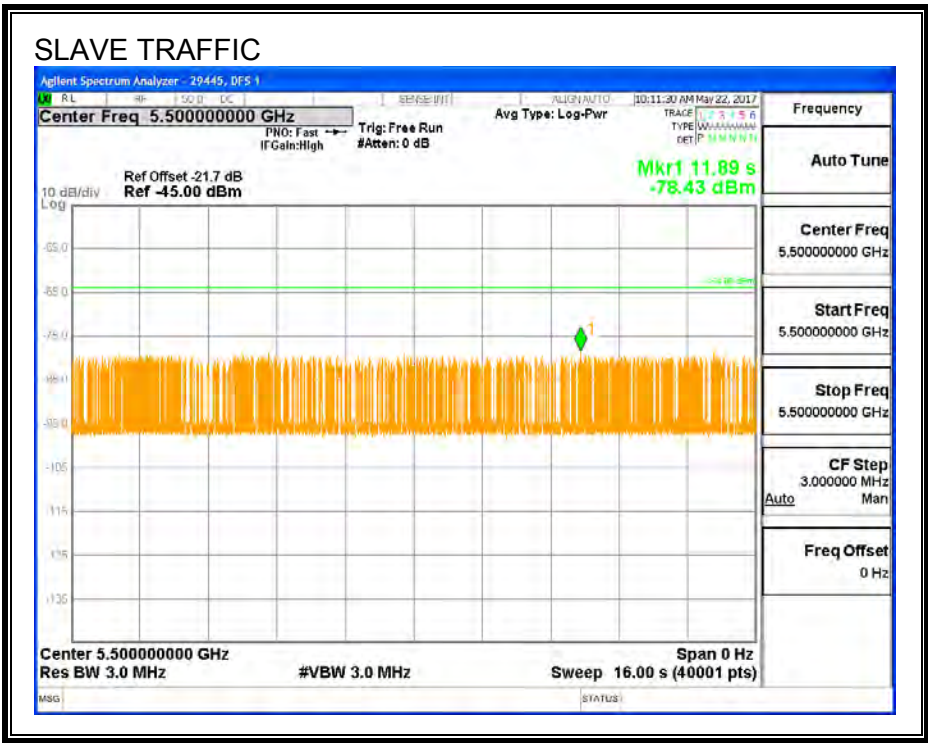
All tests were performed at a channel center frequency of 5500 MHz.

11.5.2. RADAR WAVEFORM AND TRAFFIC

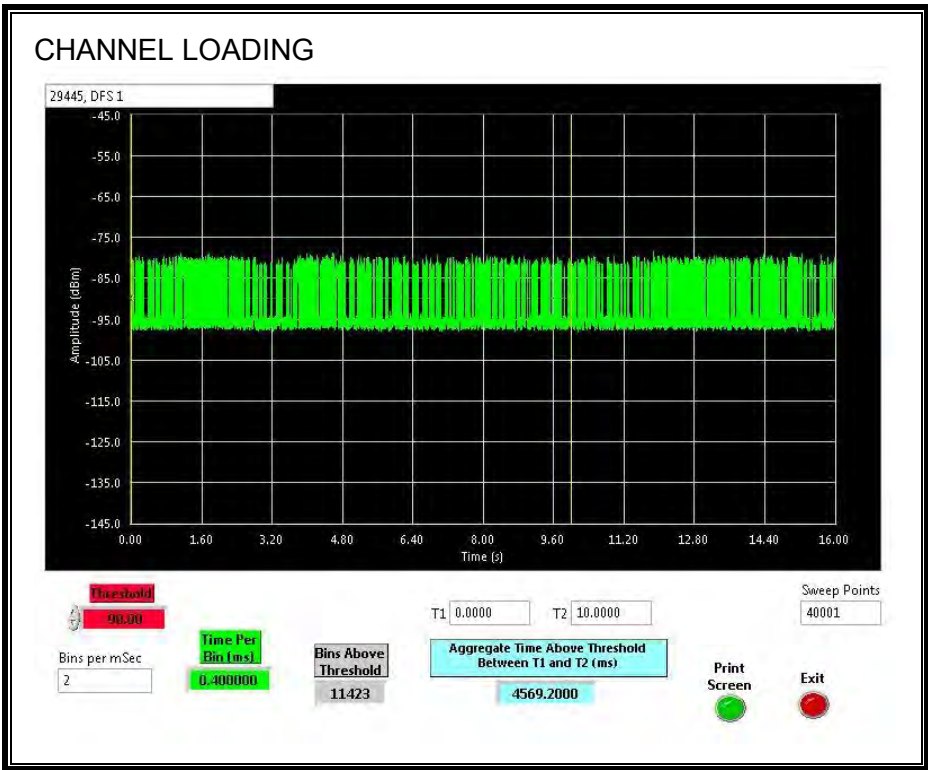
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 45.69%.

11.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.5.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

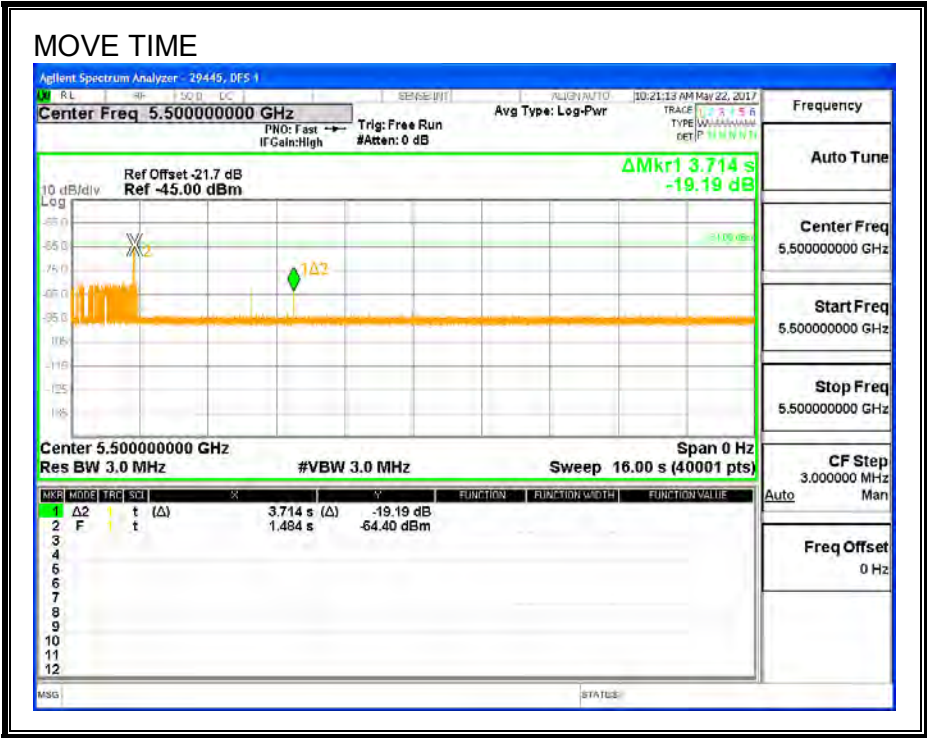
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

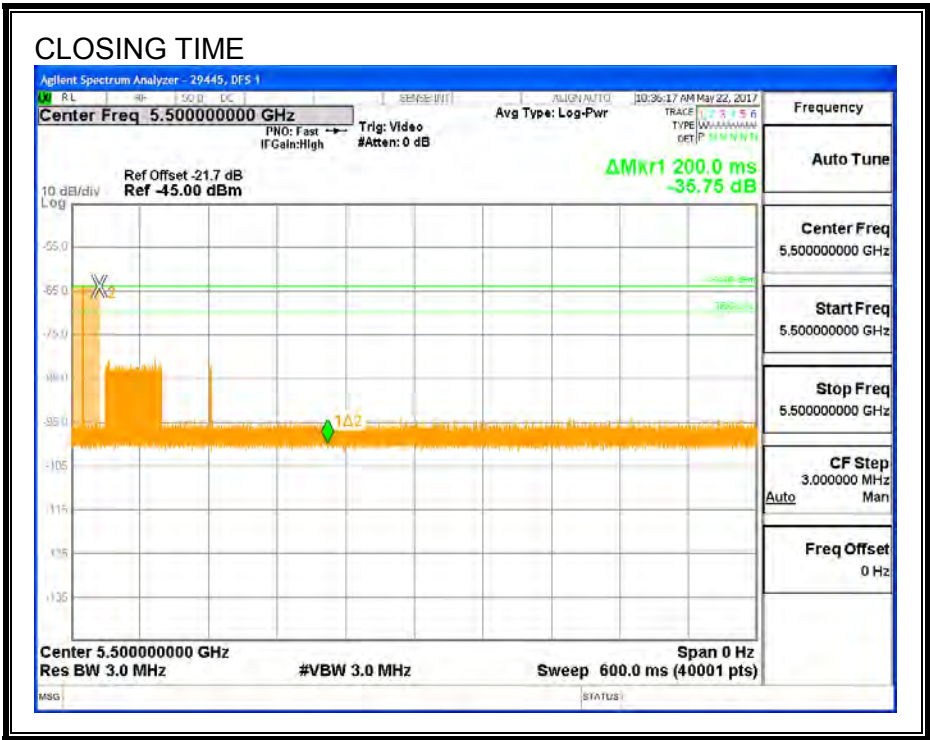
Channel Move Time (sec)	Limit (sec)
3.7140	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
6.0	60

MOVE TIME

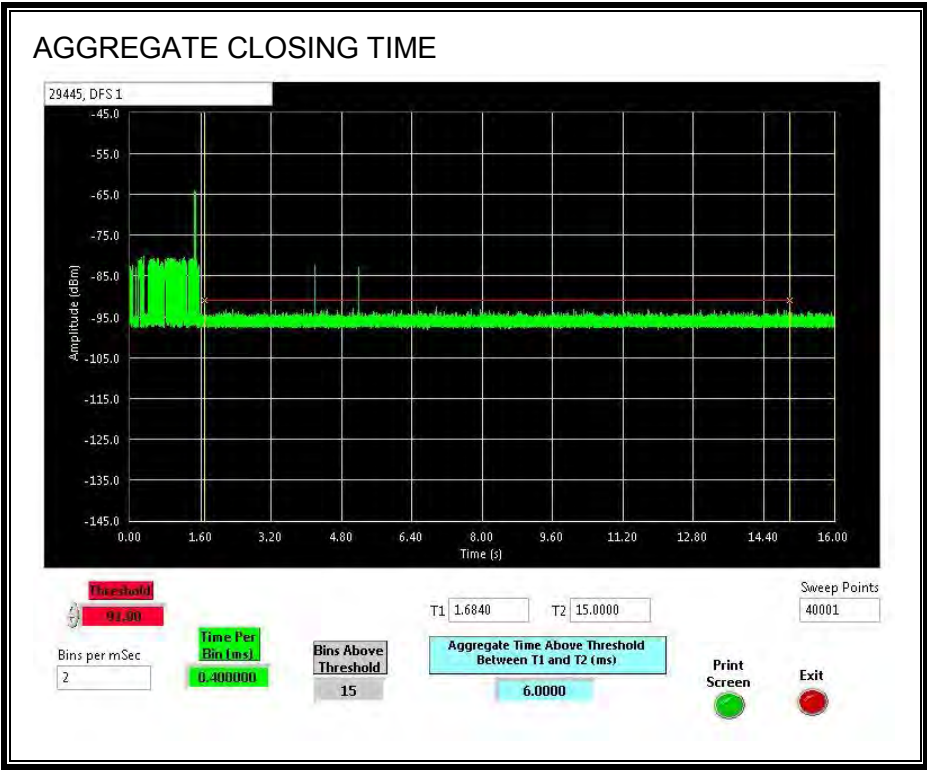


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



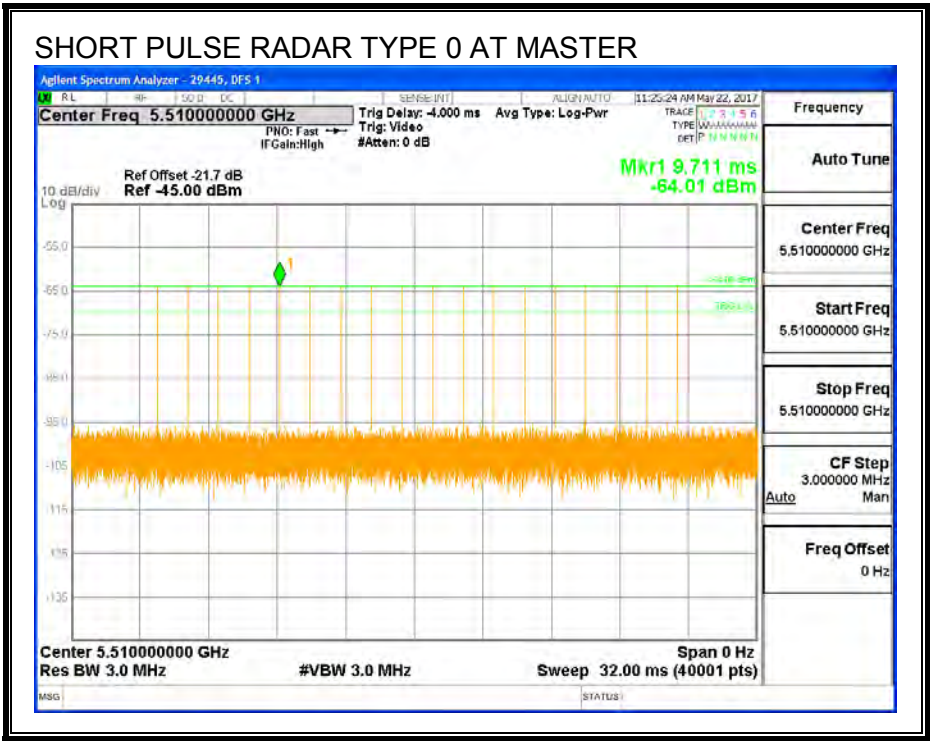
11.6. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

11.6.1. TEST CHANNEL

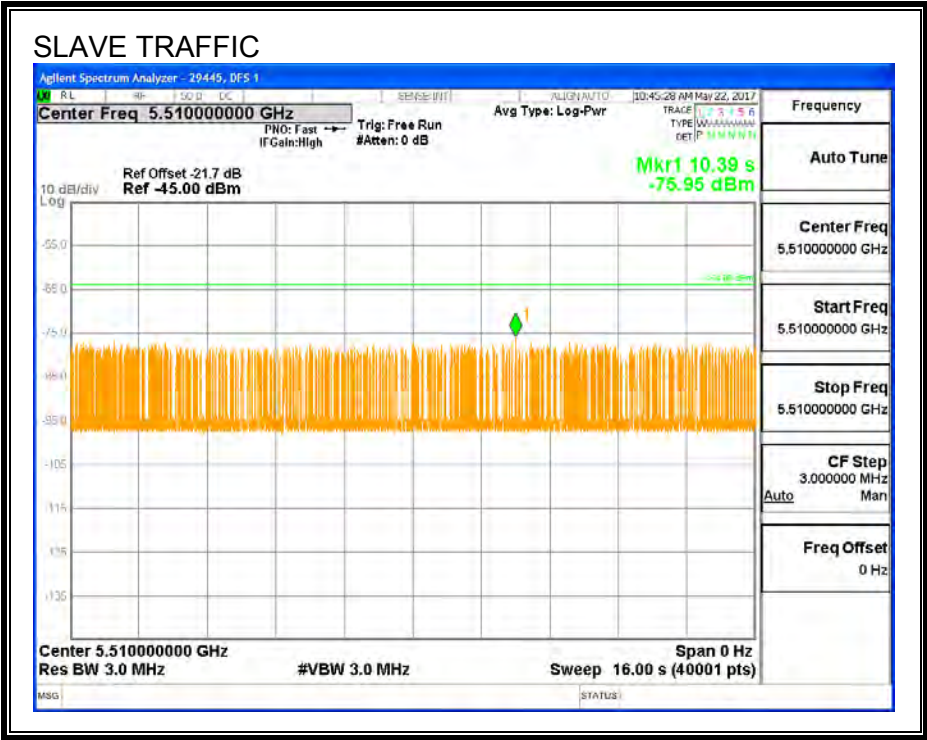
All tests were performed at a channel center frequency of 5510 MHz.

11.6.2. RADAR WAVEFORM AND TRAFFIC

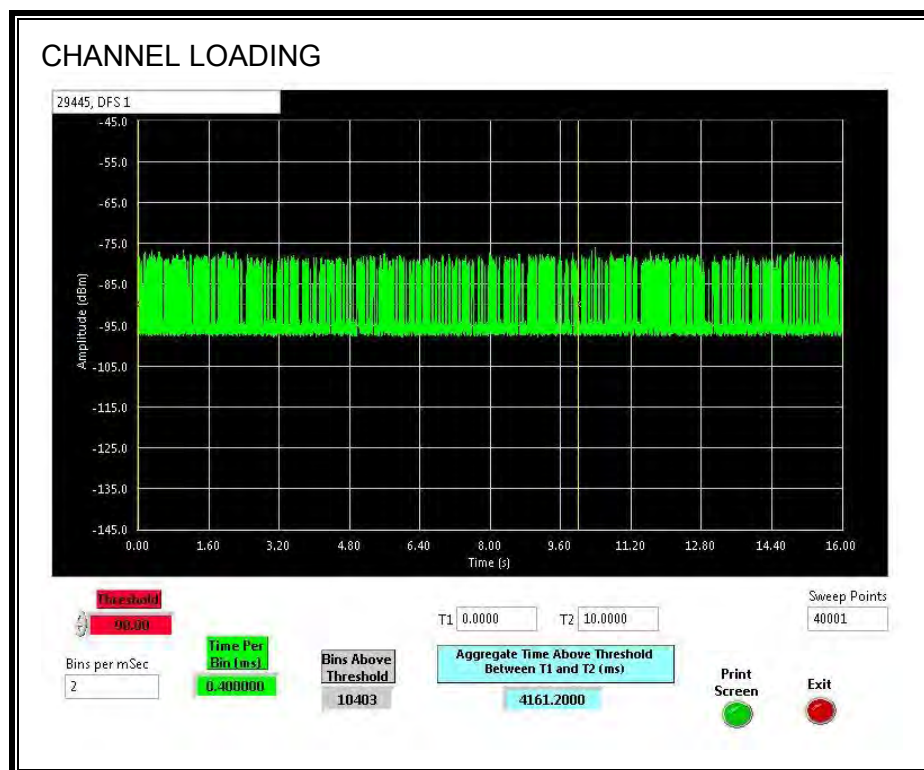
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 41.61%.

11.6.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.6.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

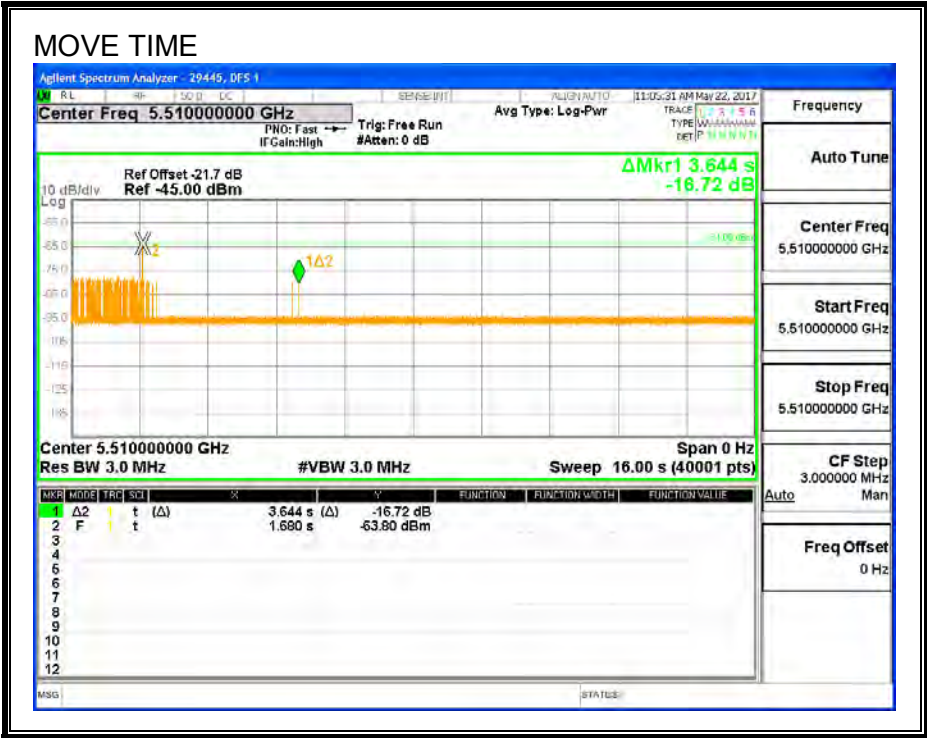
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

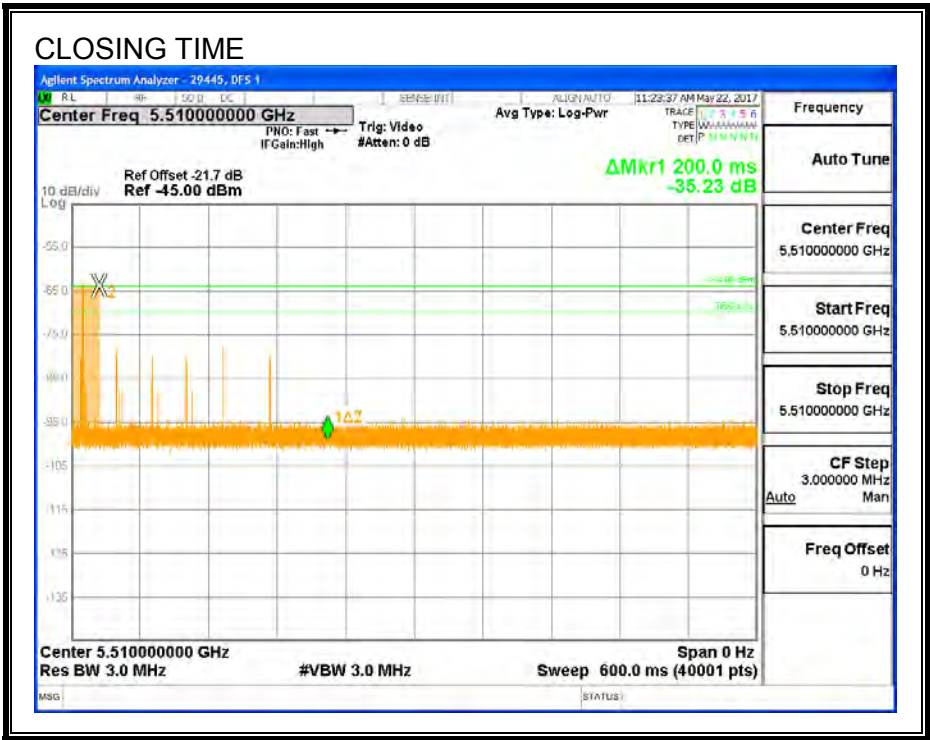
Channel Move Time (sec)	Limit (sec)
3.644	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
8.0	60

MOVE TIME

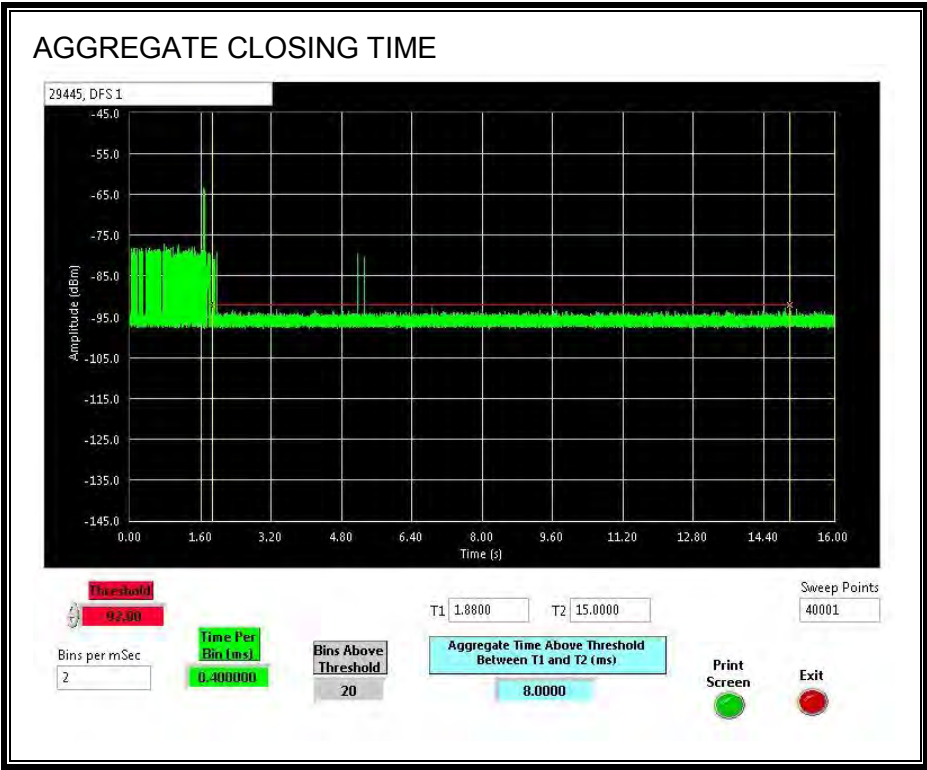


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



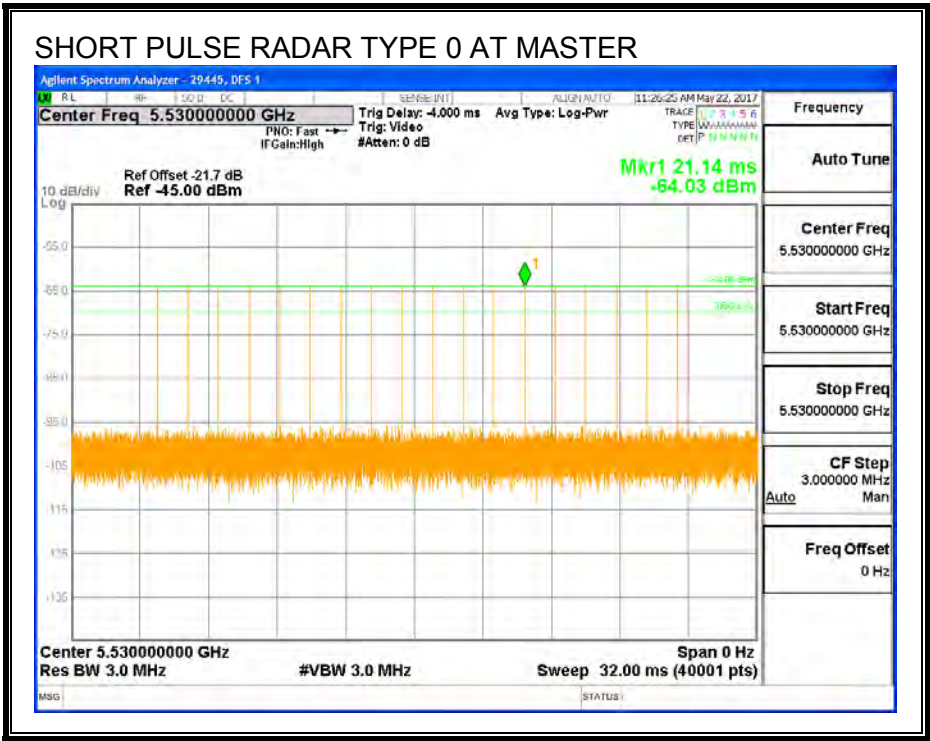
11.7. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 MHz BANDWIDTH

11.7.1. TEST CHANNEL

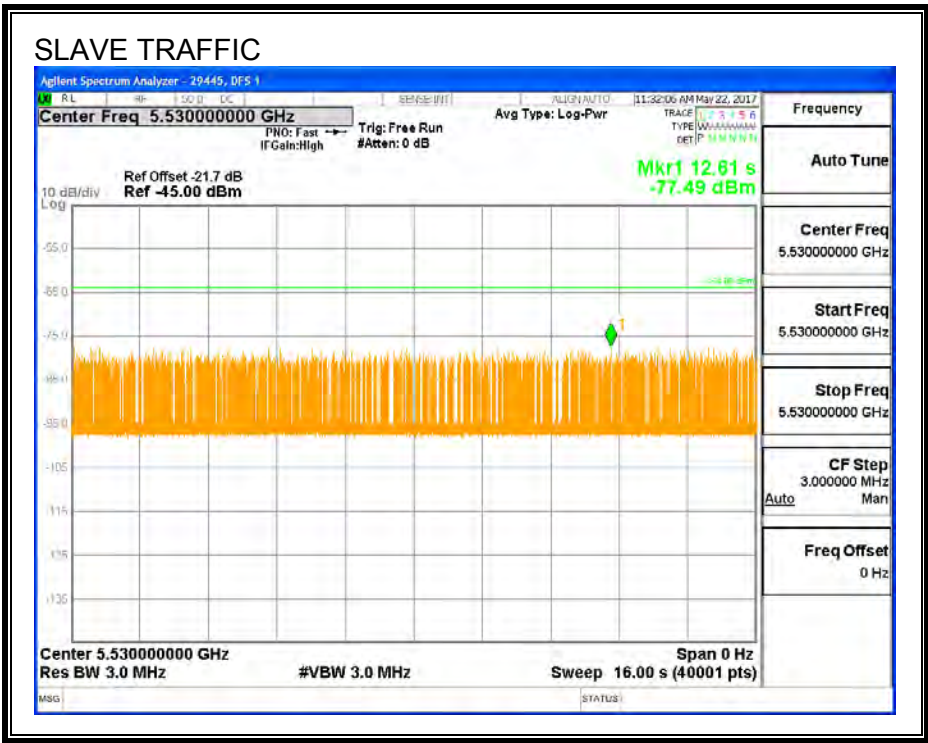
All tests were performed at a channel center frequency of 5530 MHz.

11.7.2. RADAR WAVEFORM AND TRAFFIC

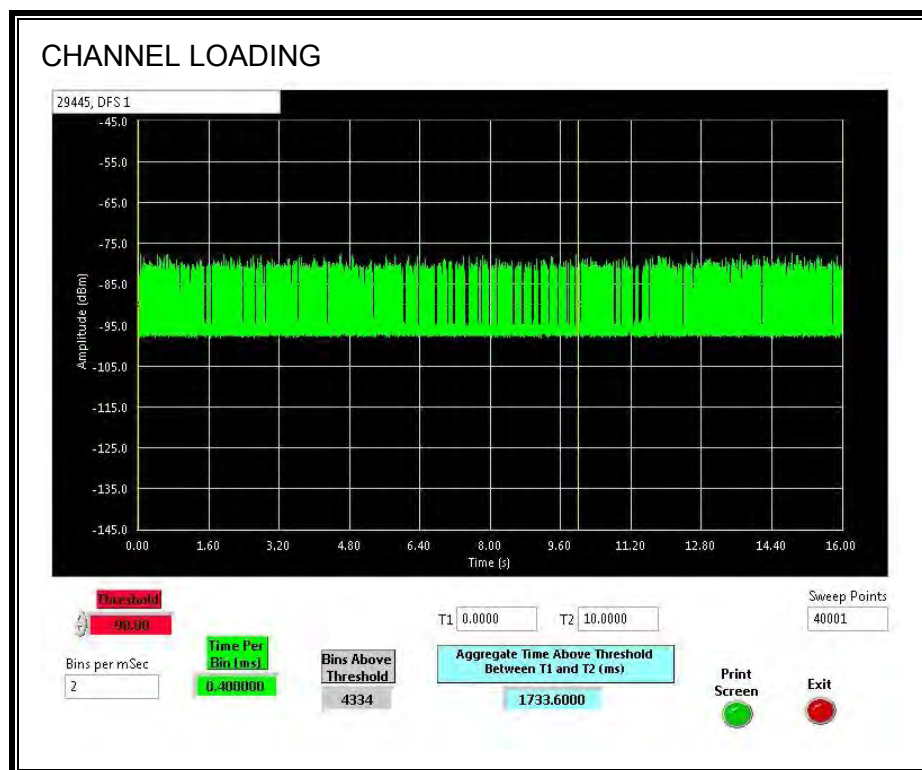
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.33%.

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)

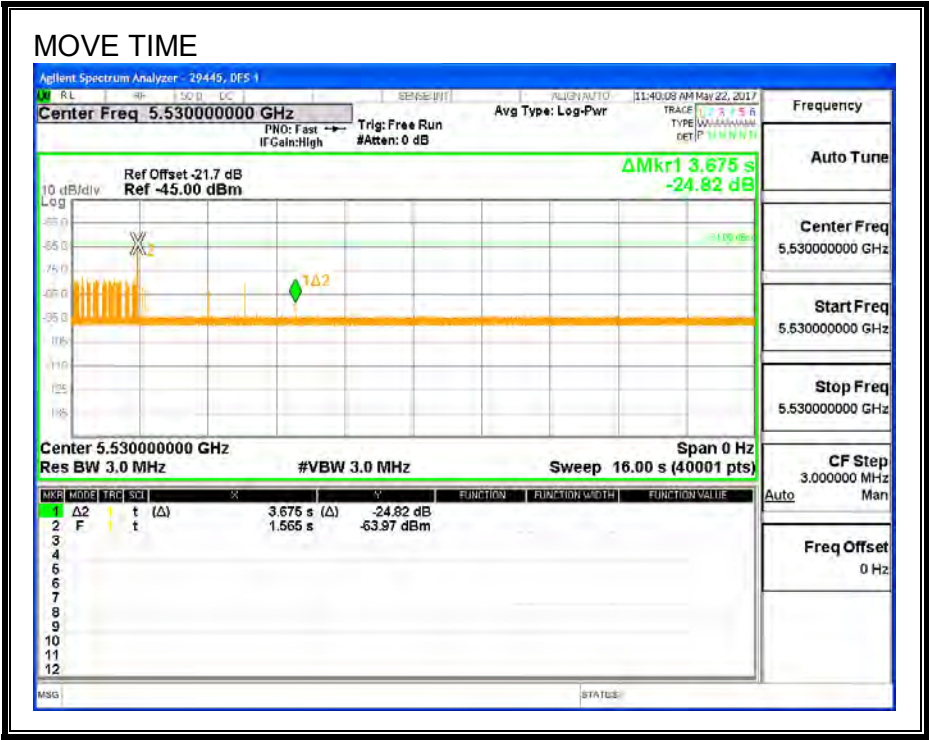
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time (sec)	Limit (sec)
3.675	10

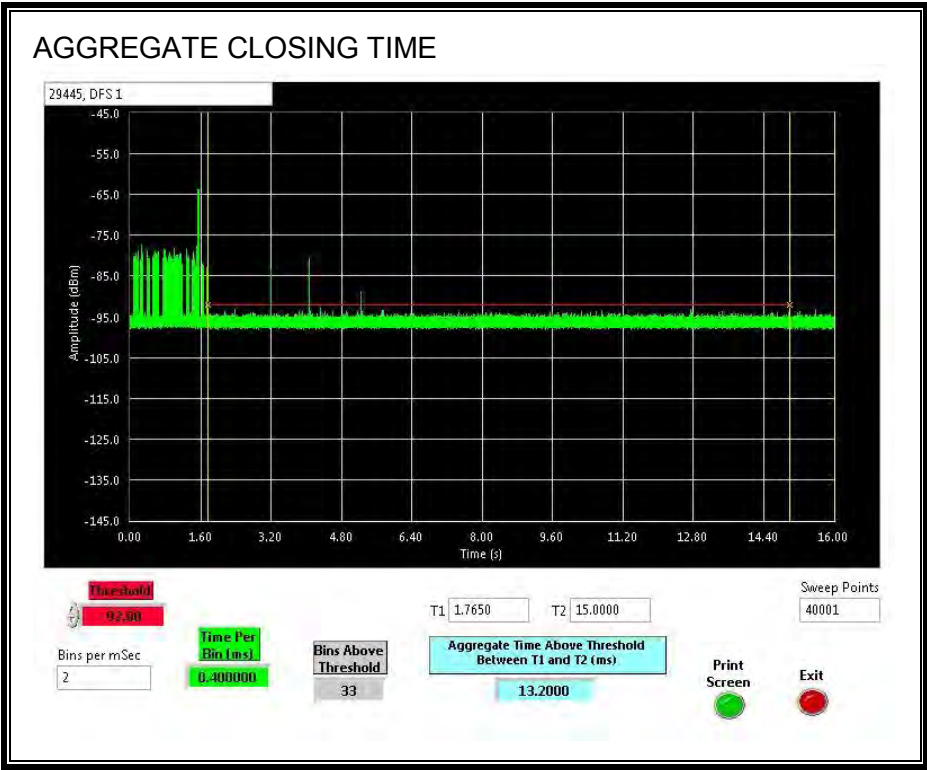
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
13.2	60

MOVE TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

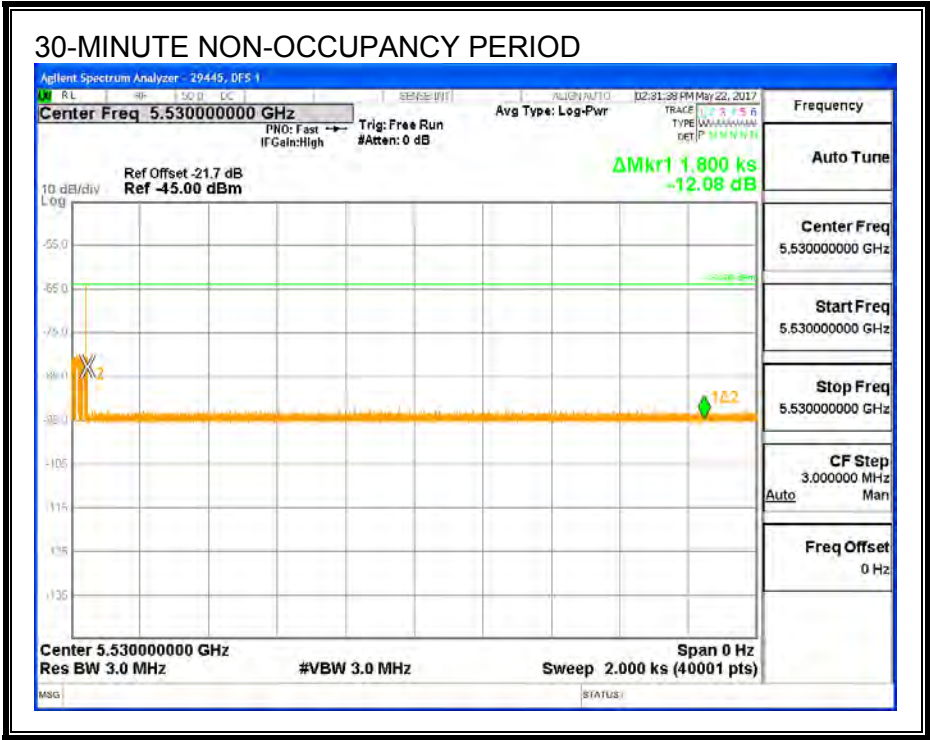
Only intermittent transmissions are observed during the aggregate monitoring period.



11.7.1. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



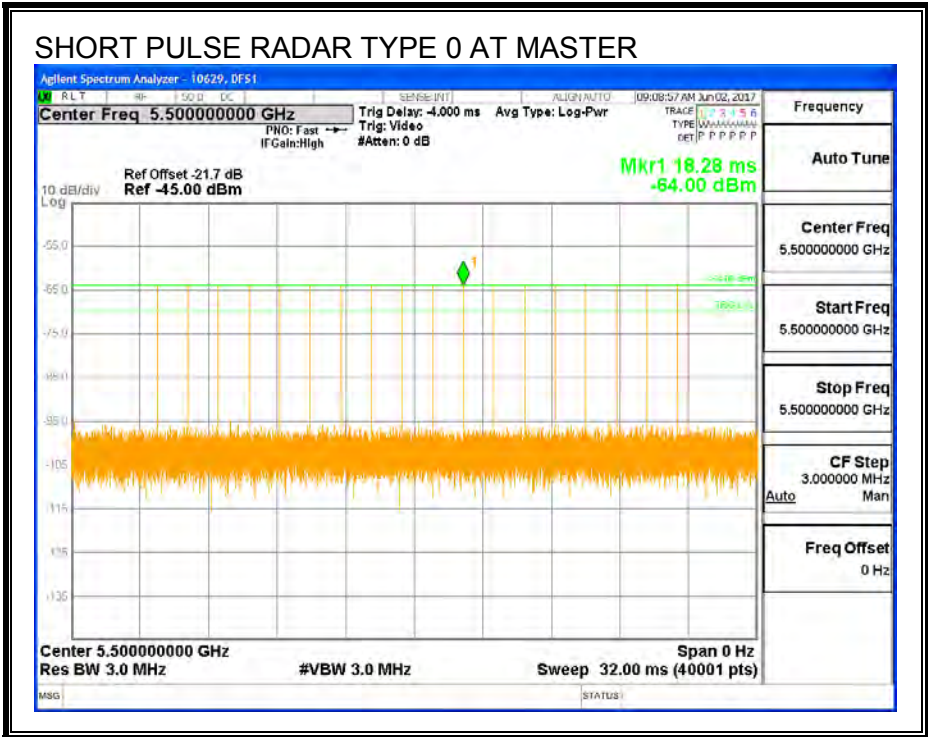
11.8. PEER TO PEER MODE EUT RESULTS FOR 20 MHz BANDWIDTH

11.8.1. TEST CHANNEL

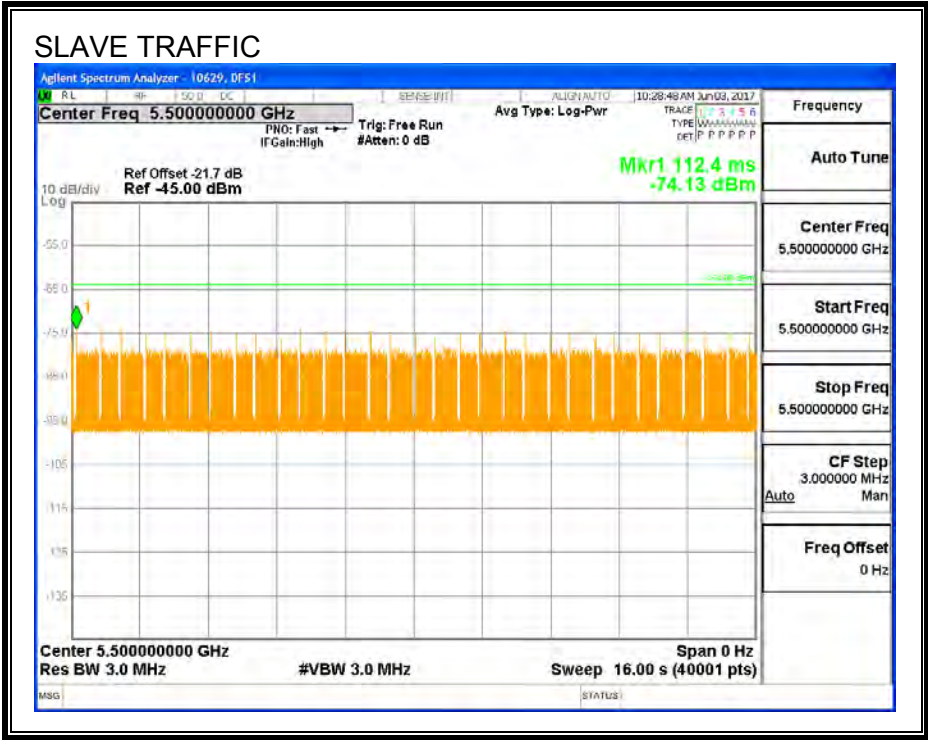
All tests were performed at a channel center frequency of 5500 MHz.

11.8.2. RADAR WAVEFORM AND TRAFFIC

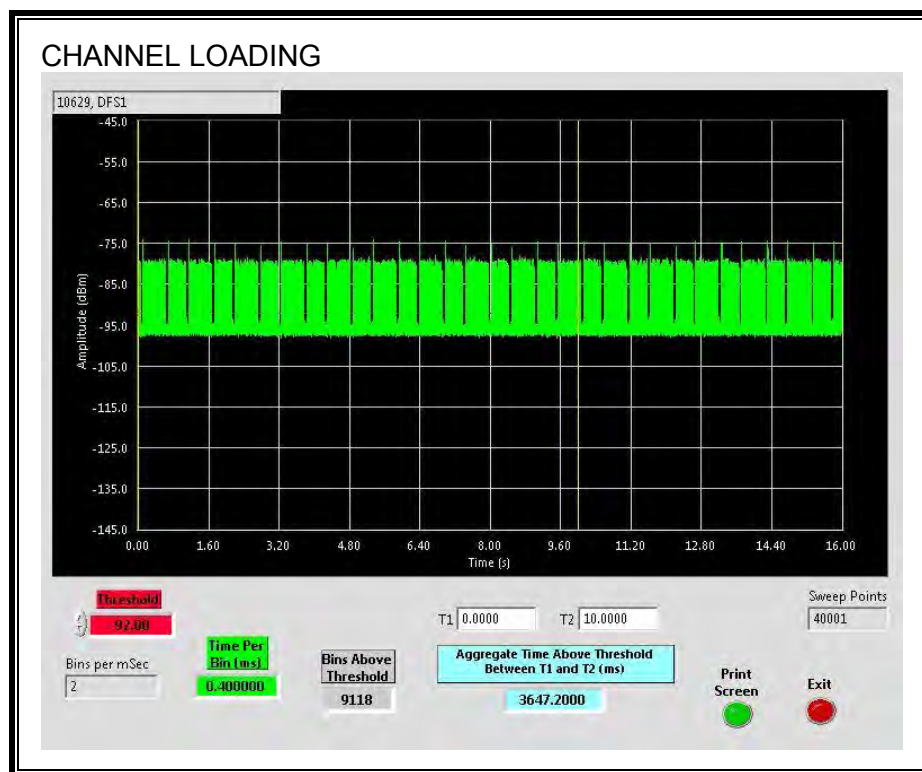
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 36.6472%

11.8.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.8.4. 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)

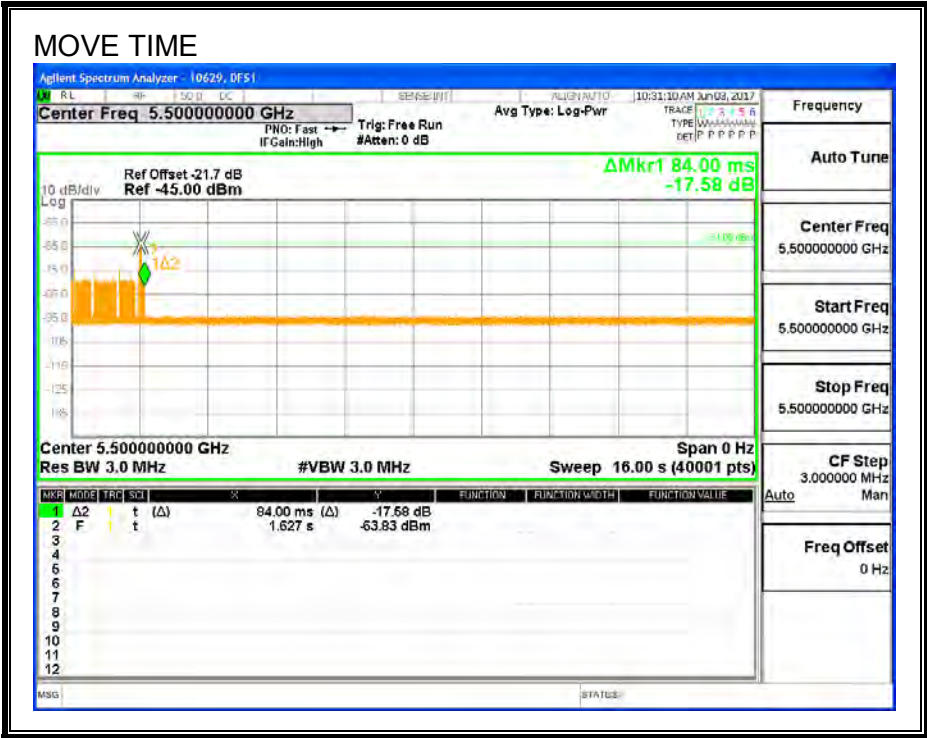
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time (sec)	Limit (sec)
0.084	10

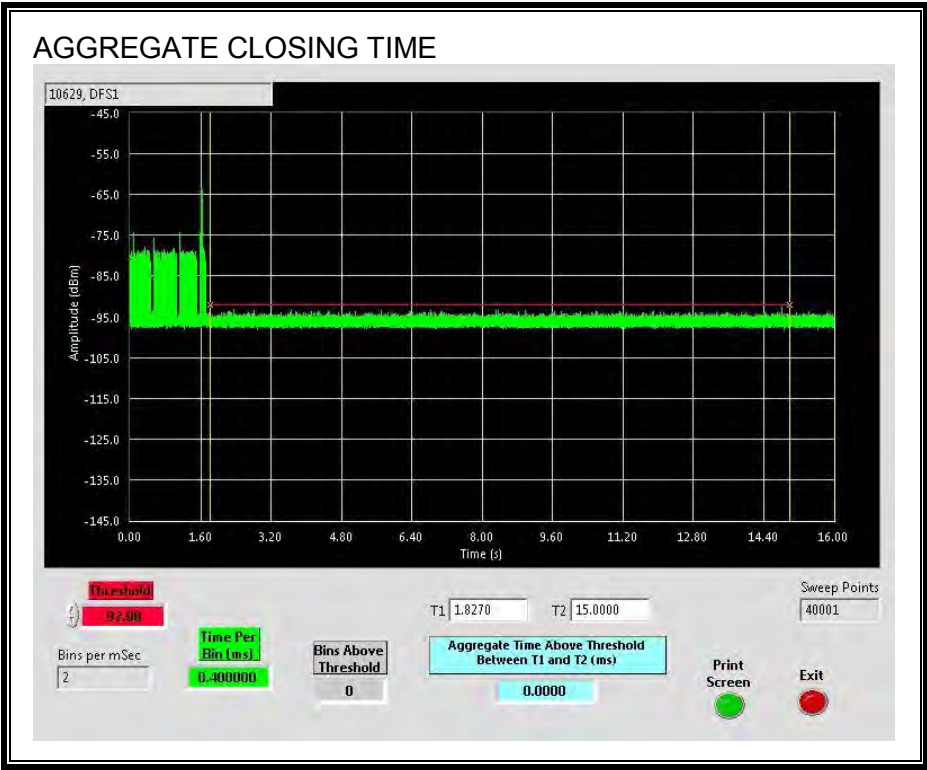
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

MOVE TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



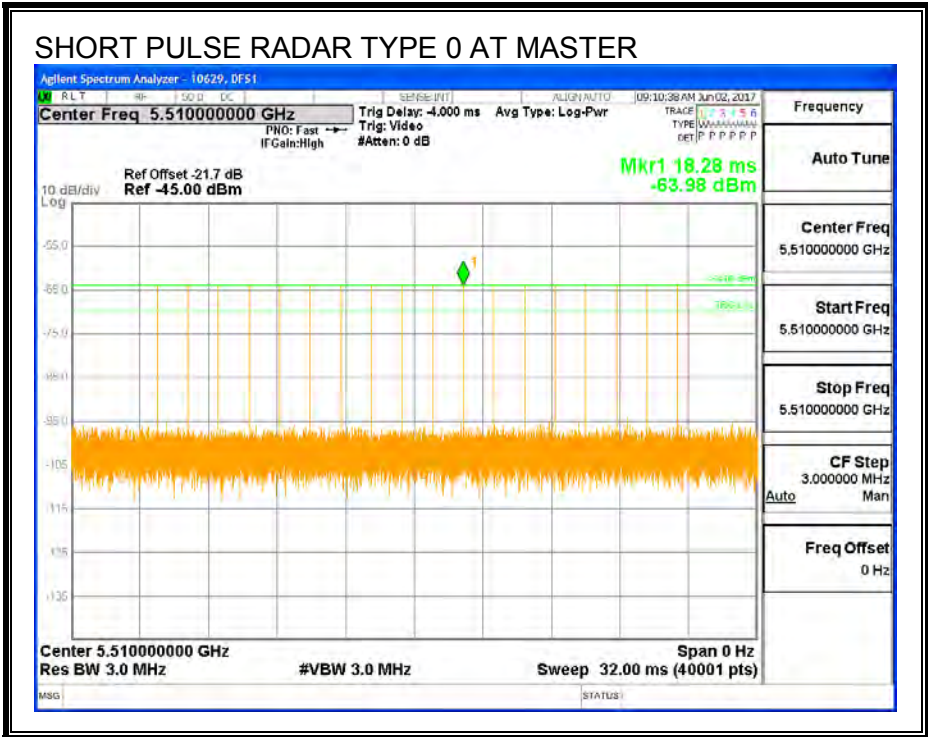
11.9. PEER TO PEER MODE EUT RESULTS FOR 40 MHz BANDWIDTH

11.9.1. TEST CHANNEL

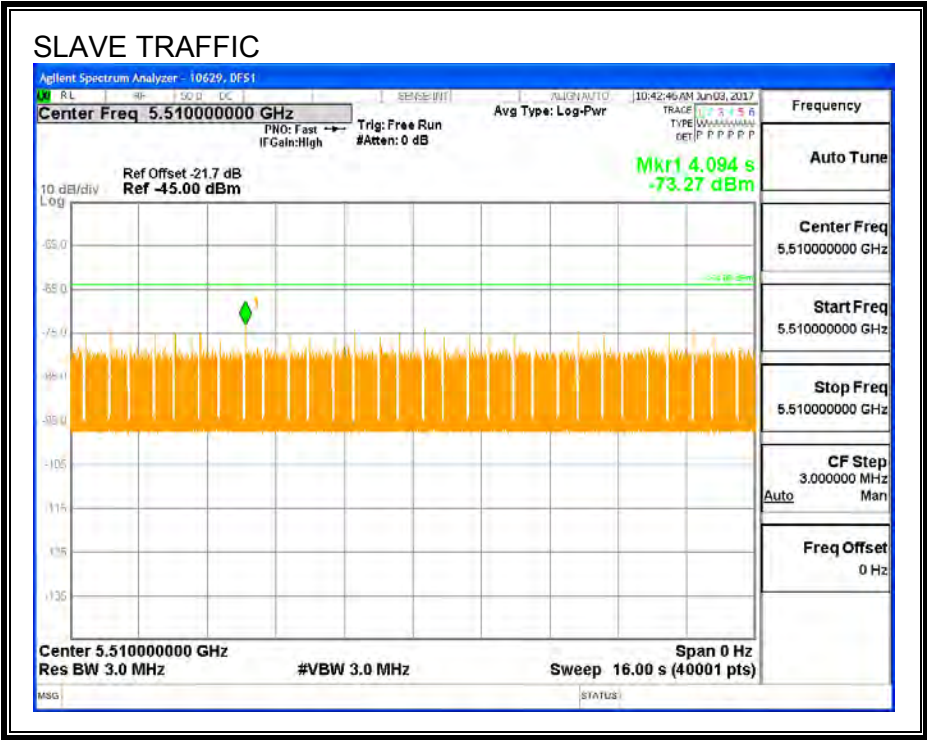
All tests were performed at a channel center frequency of 5510 MHz.

11.9.2. RADAR WAVEFORM AND TRAFFIC

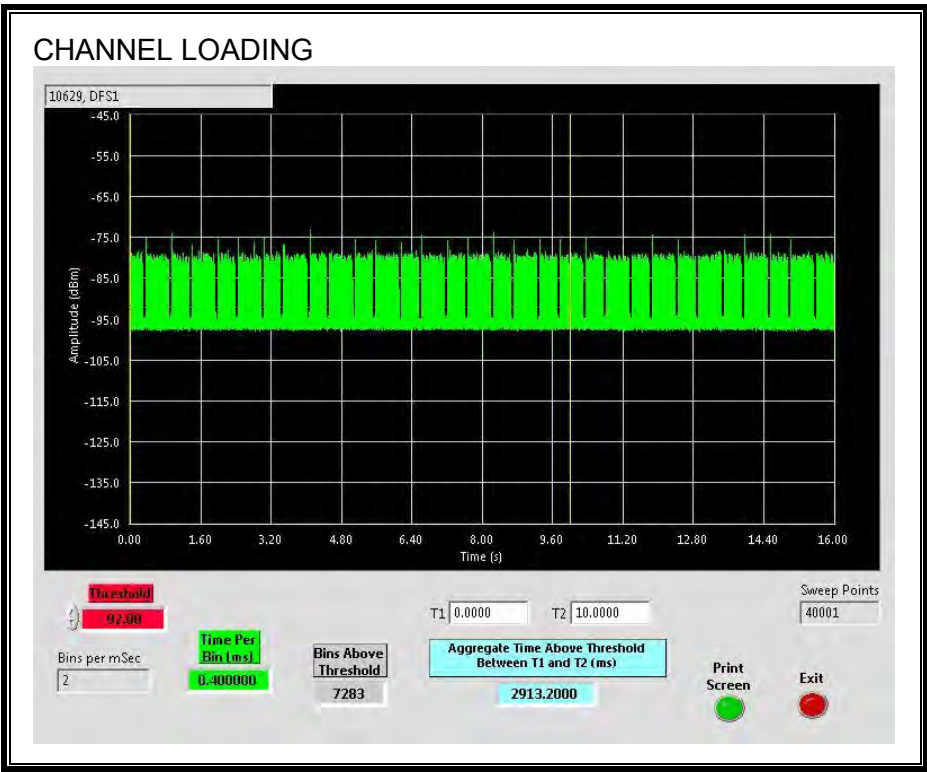
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 29.132%

11.9.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.9.4. 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)

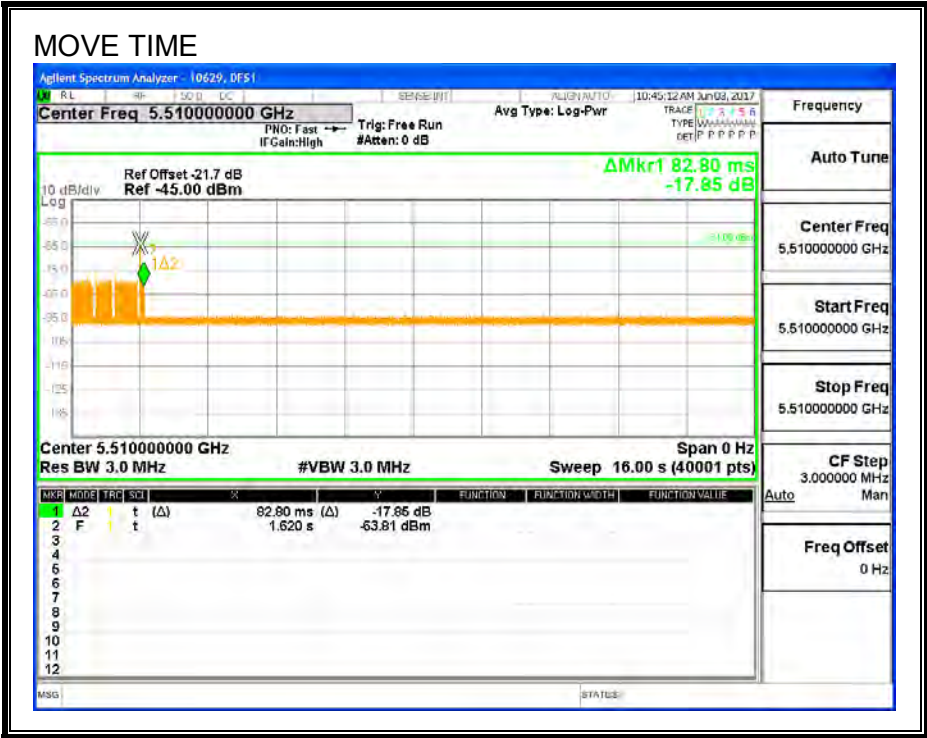
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

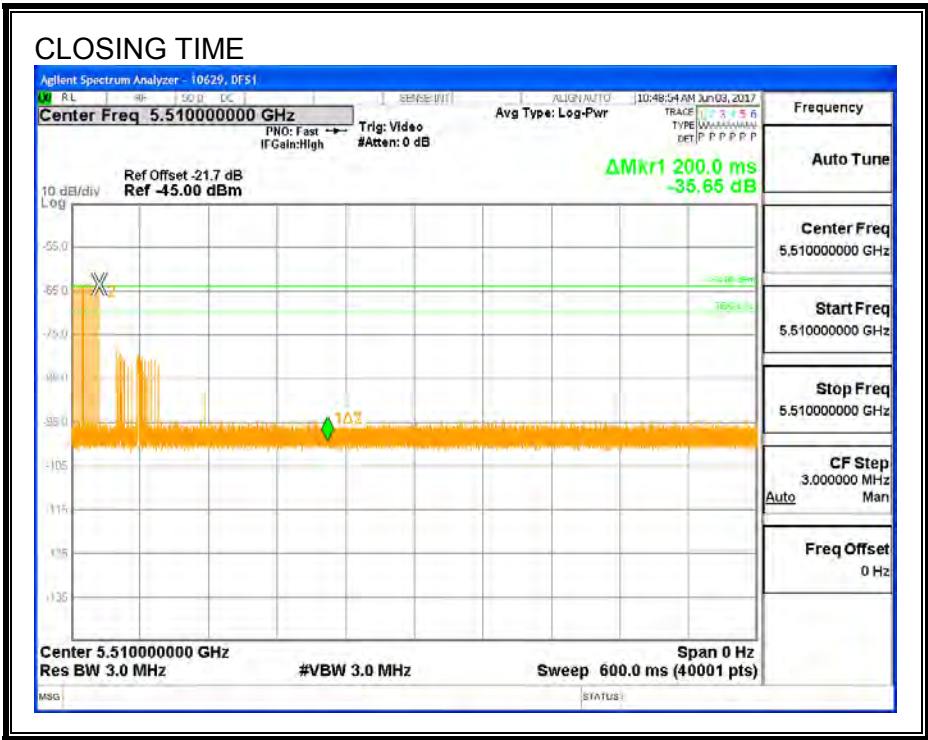
Channel Move Time (sec)	Limit (sec)
0.083	10

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

MOVE TIME

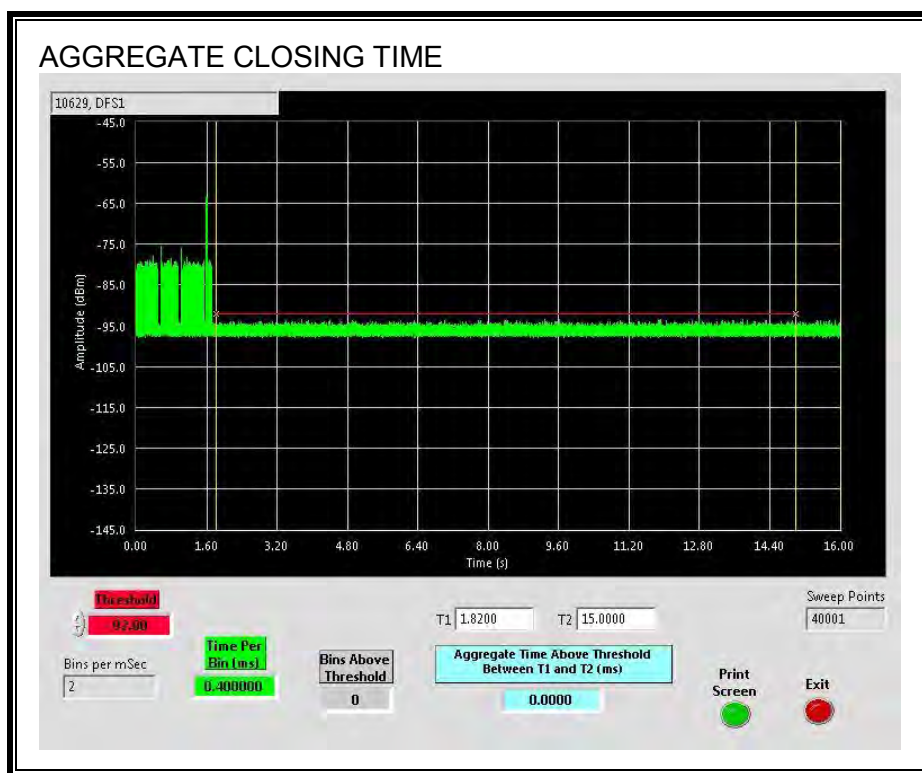


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



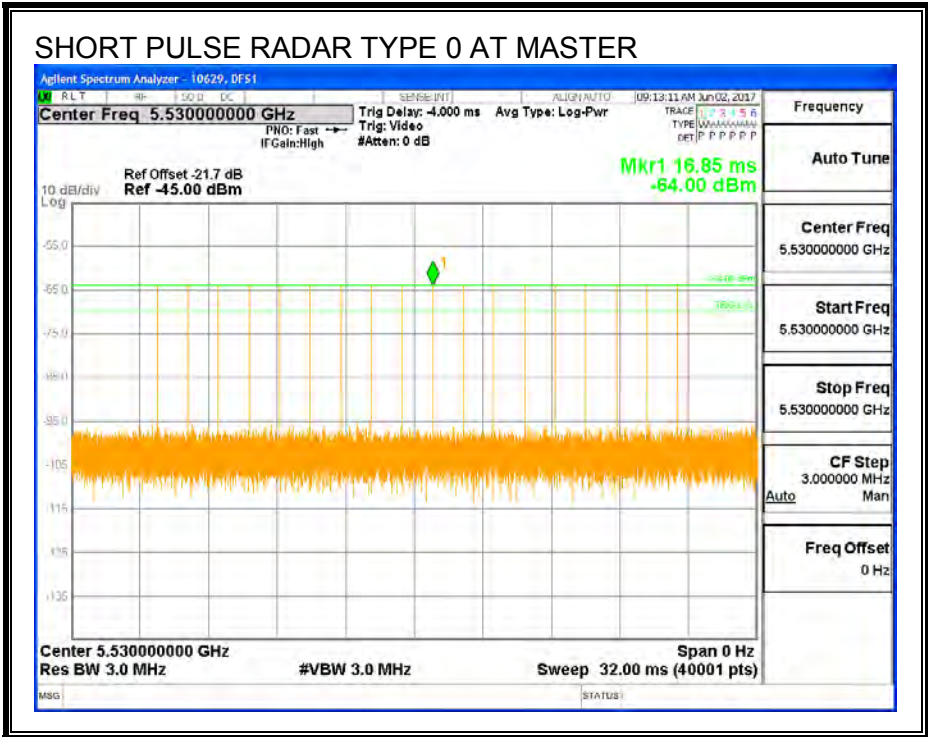
11.10. PEER TO PEER MODE EUT RESULTS FOR 80 MHz BANDWIDTH

11.10.1. TEST CHANNEL

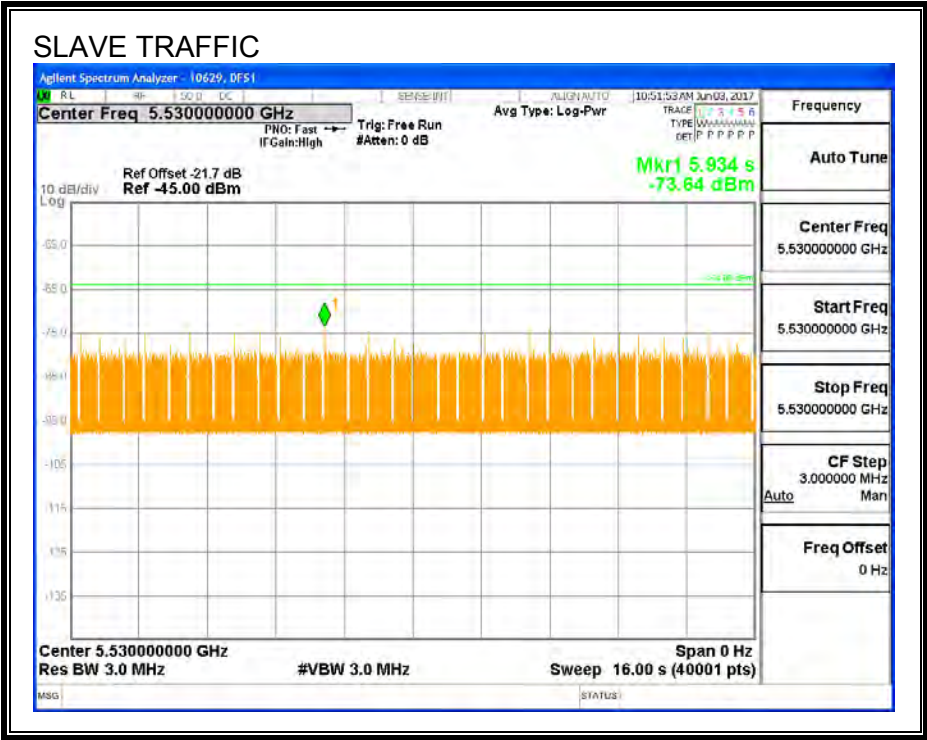
All tests were performed at a channel center frequency of 5530 MHz.

11.10.2. RADAR WAVEFORM AND TRAFFIC

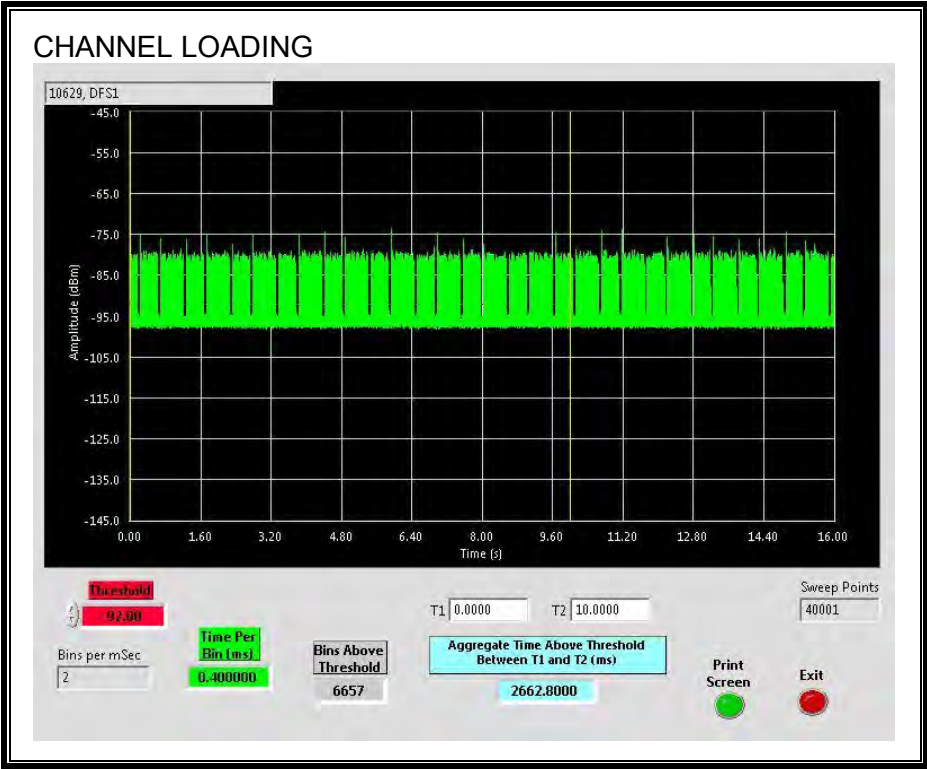
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 26.628%

11.10.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.10.4. 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)

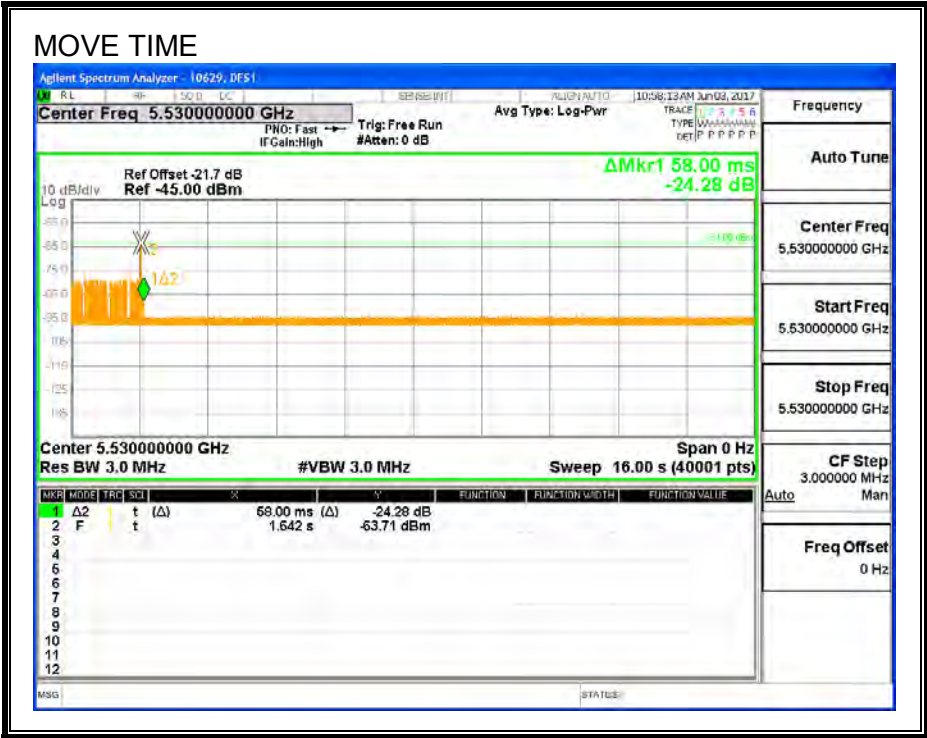
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

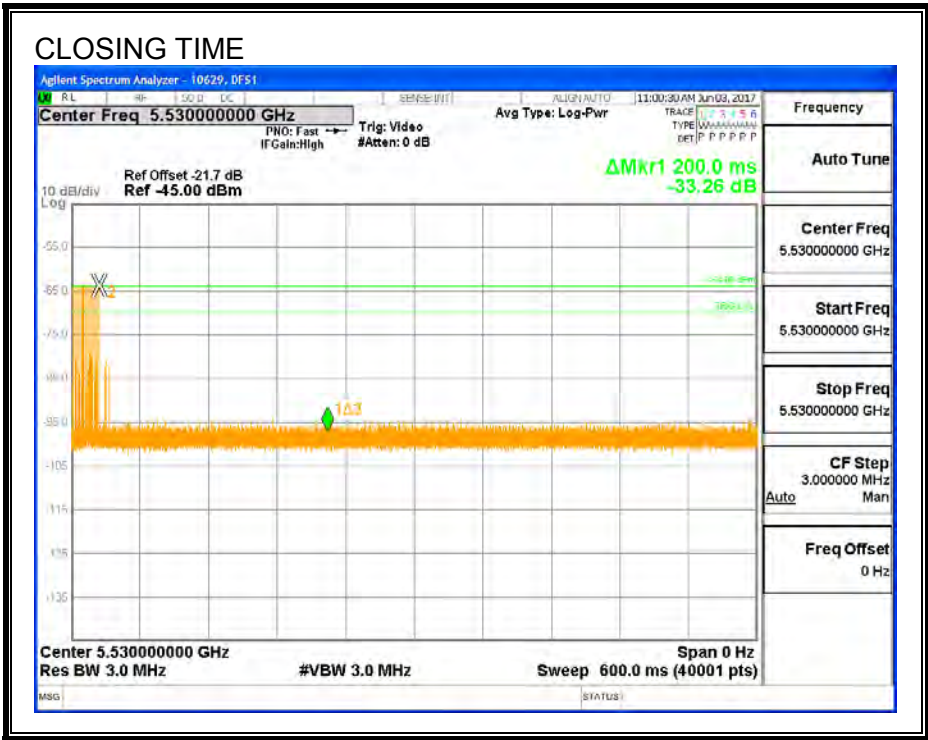
Channel Move Time (sec)	Limit (sec)
0.058	10

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

MOVE TIME

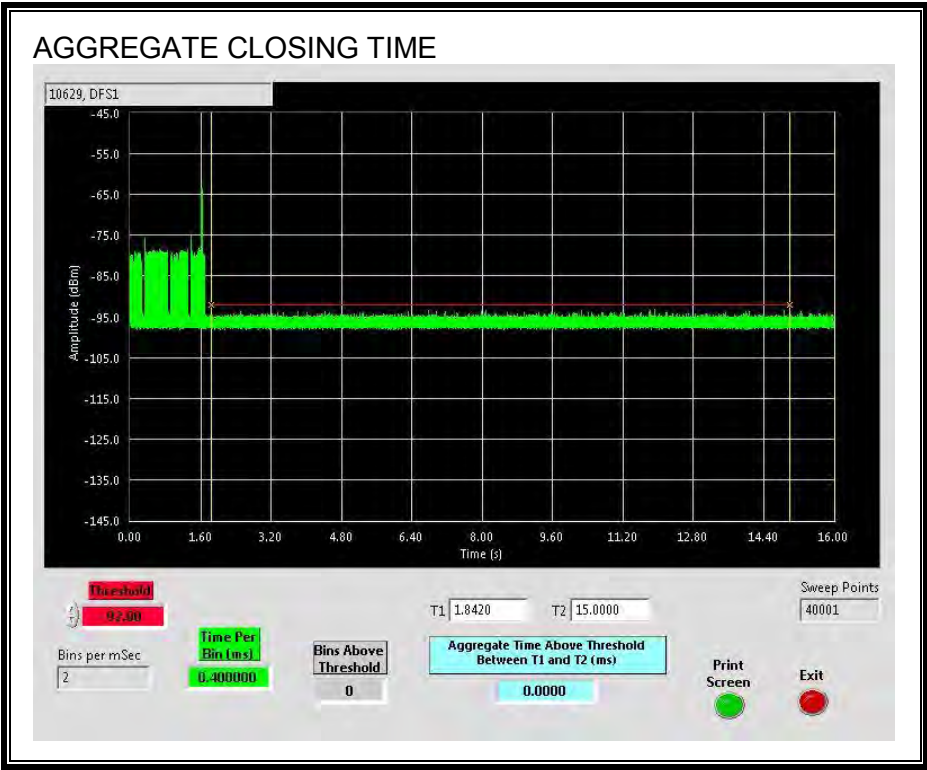


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

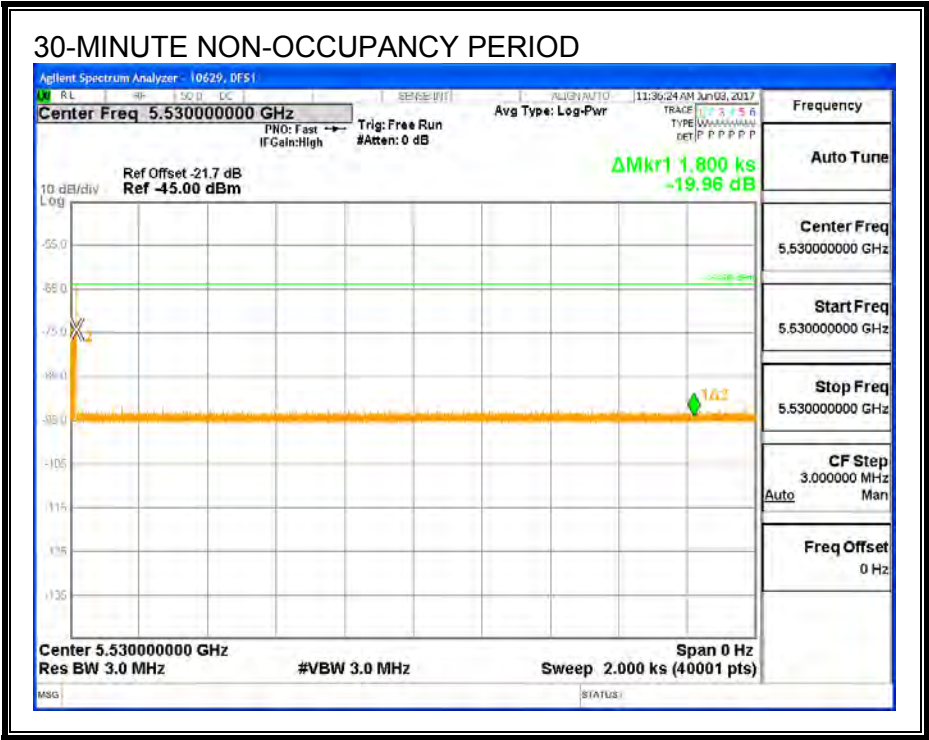
No transmissions are observed during the aggregate monitoring period.



11.10.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



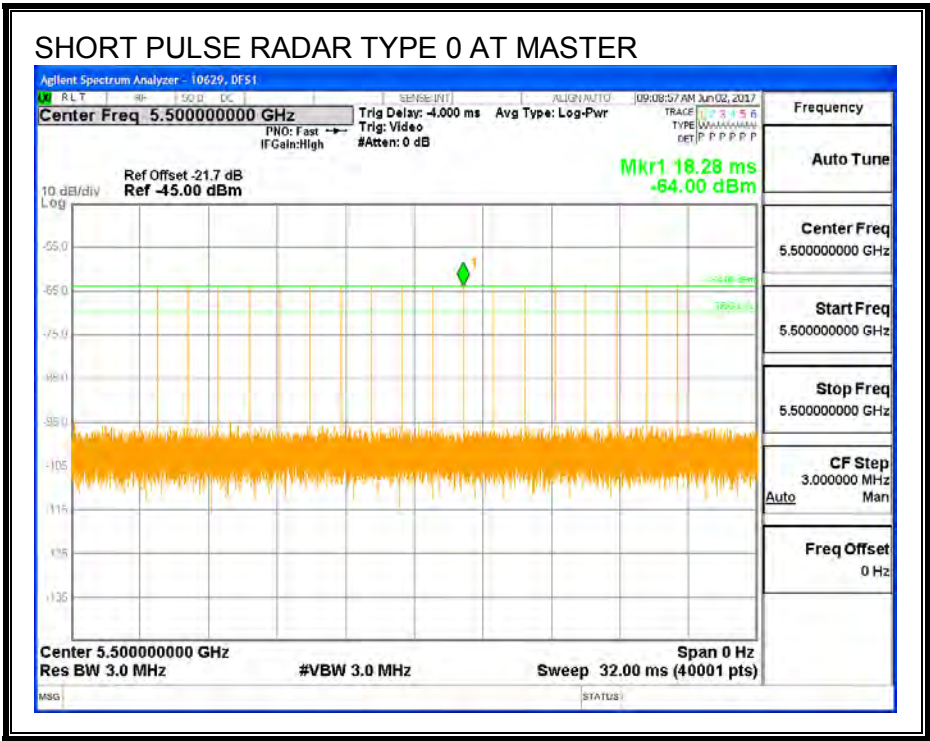
11.11. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 20 MHz BANDWIDTH

11.11.1. TEST CHANNEL

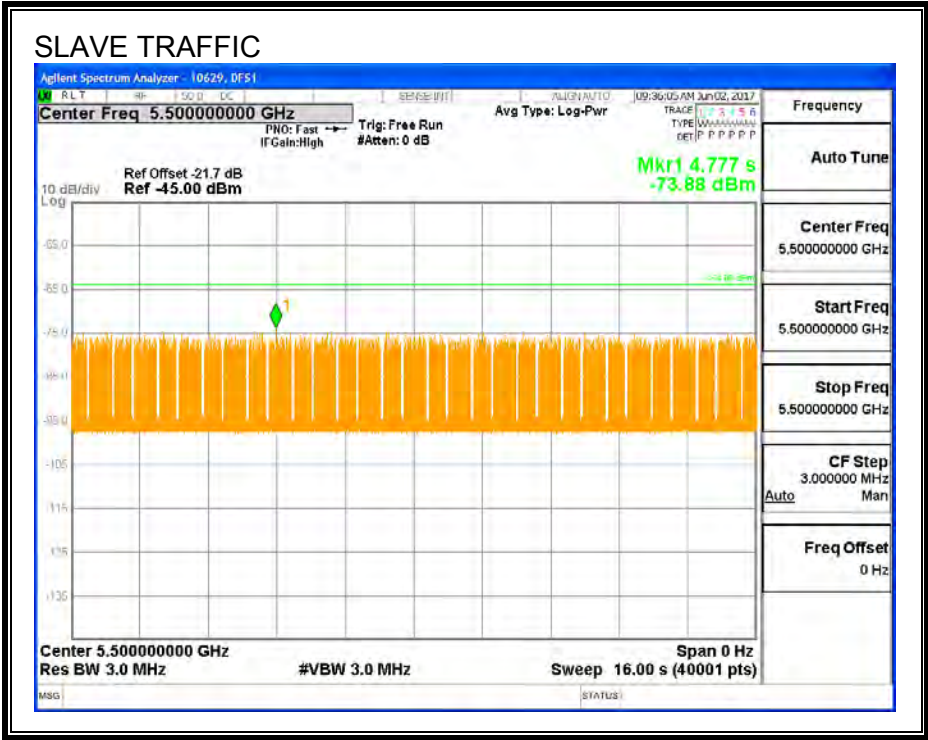
All tests were performed at a channel center frequency of 5500 MHz.

11.11.2. RADAR WAVEFORM AND TRAFFIC

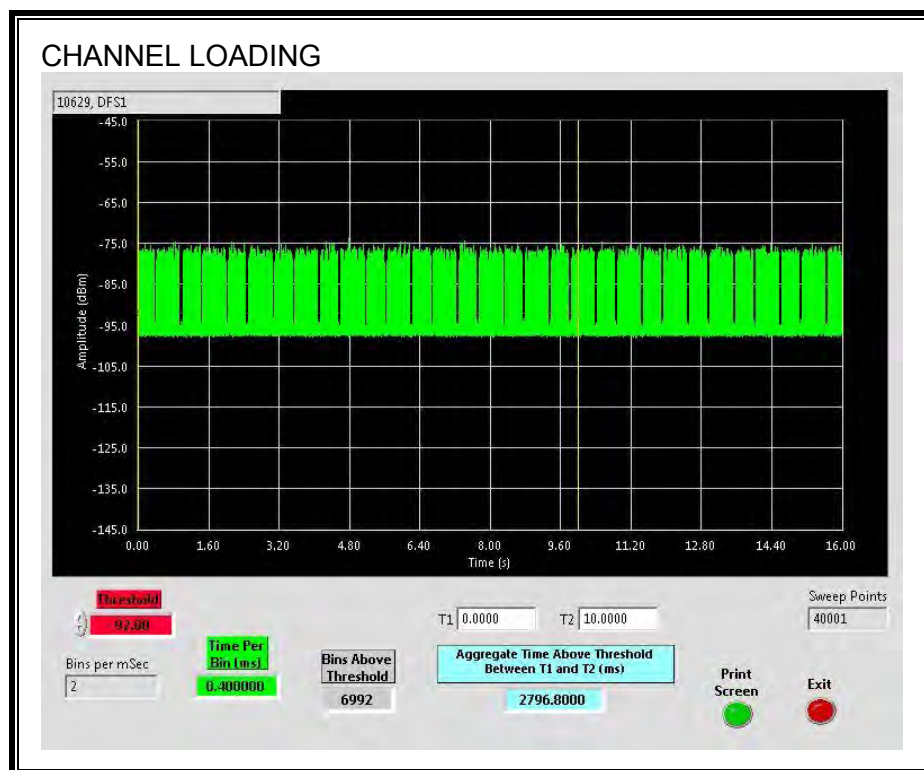
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 27.968%

11.11.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.11.4. 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)

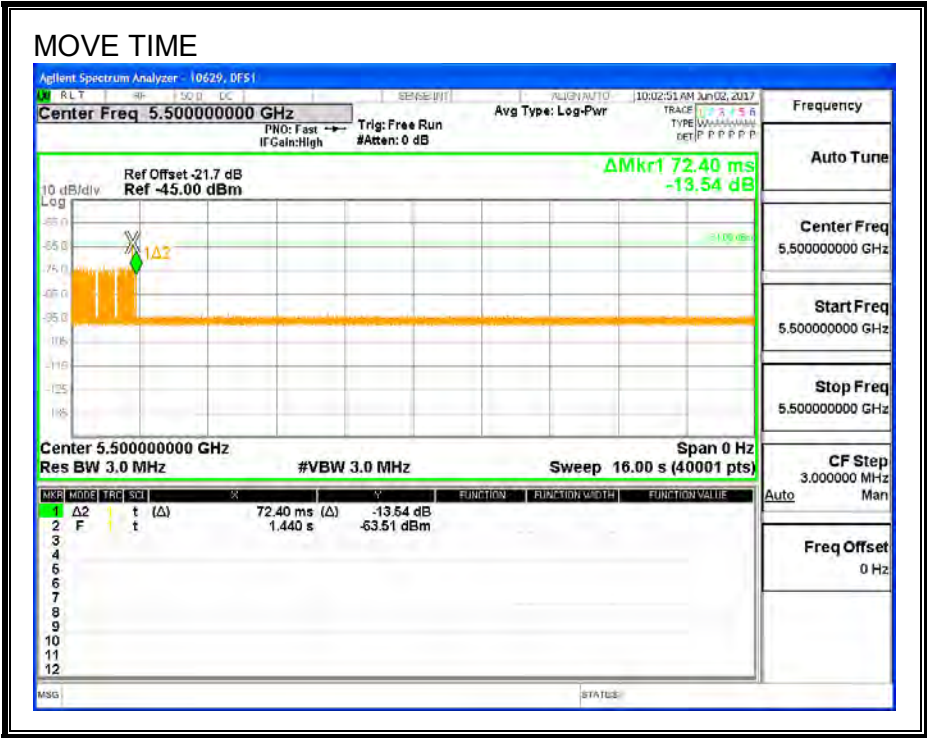
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

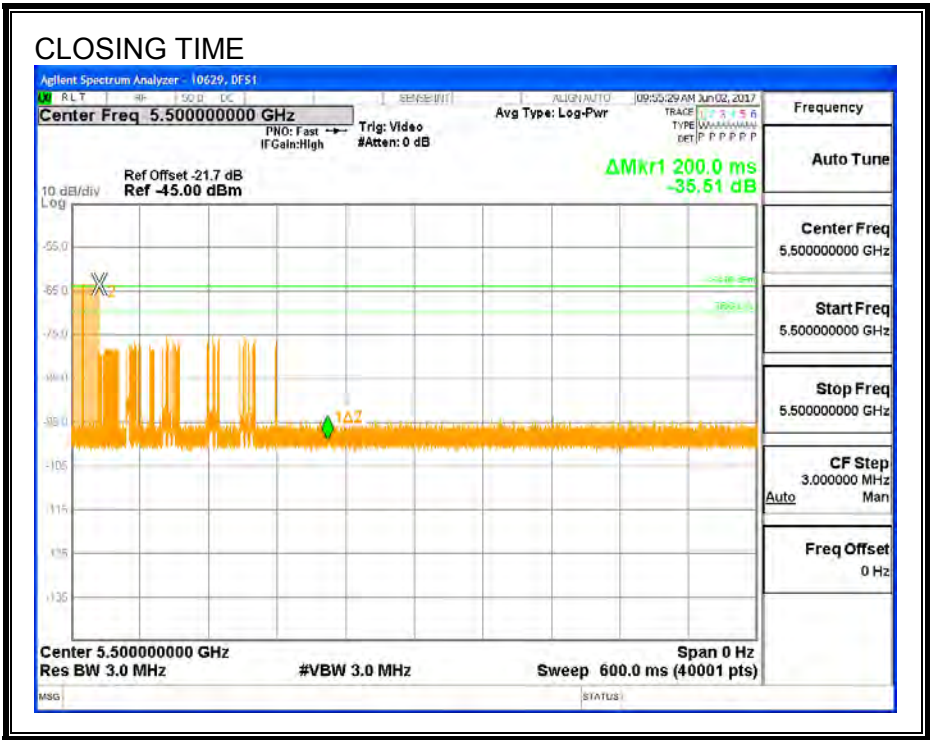
Channel Move Time (sec)	Limit (sec)
0.072	10

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

MOVE TIME

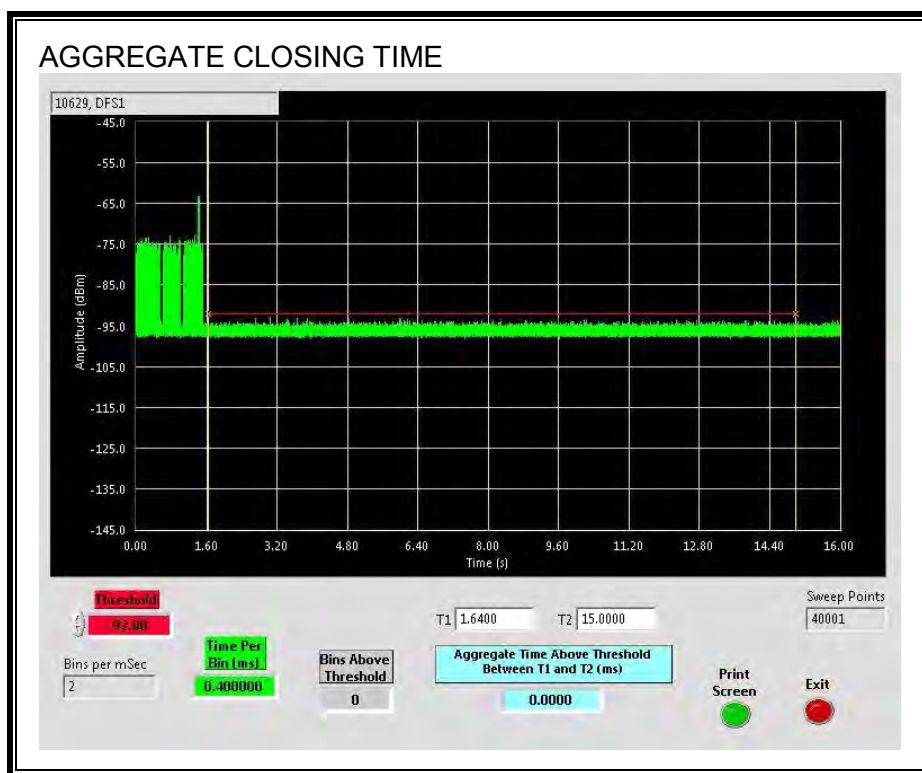


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



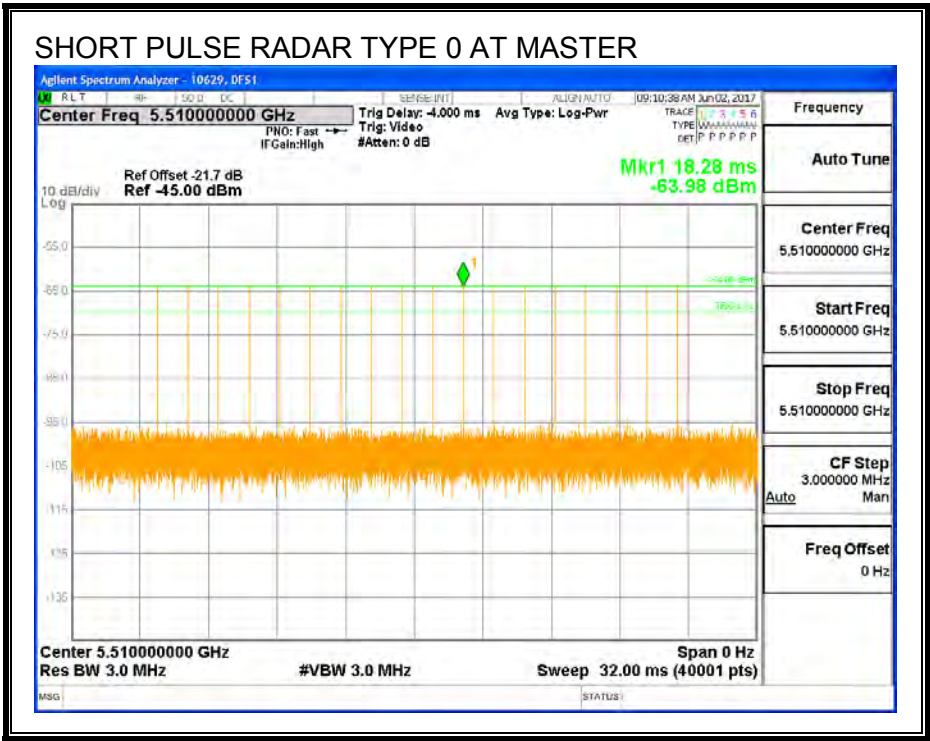
11.12. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 40 MHz BANDWIDTH

11.12.1. TEST CHANNEL

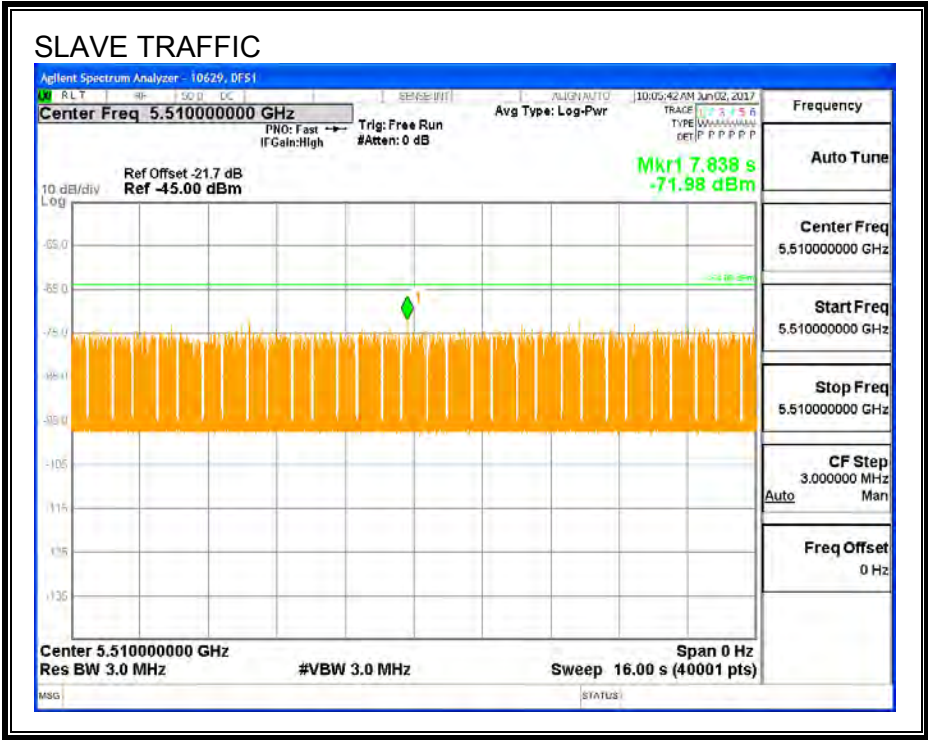
All tests were performed at a channel center frequency of 5510 MHz.

11.12.2. RADAR WAVEFORM AND TRAFFIC

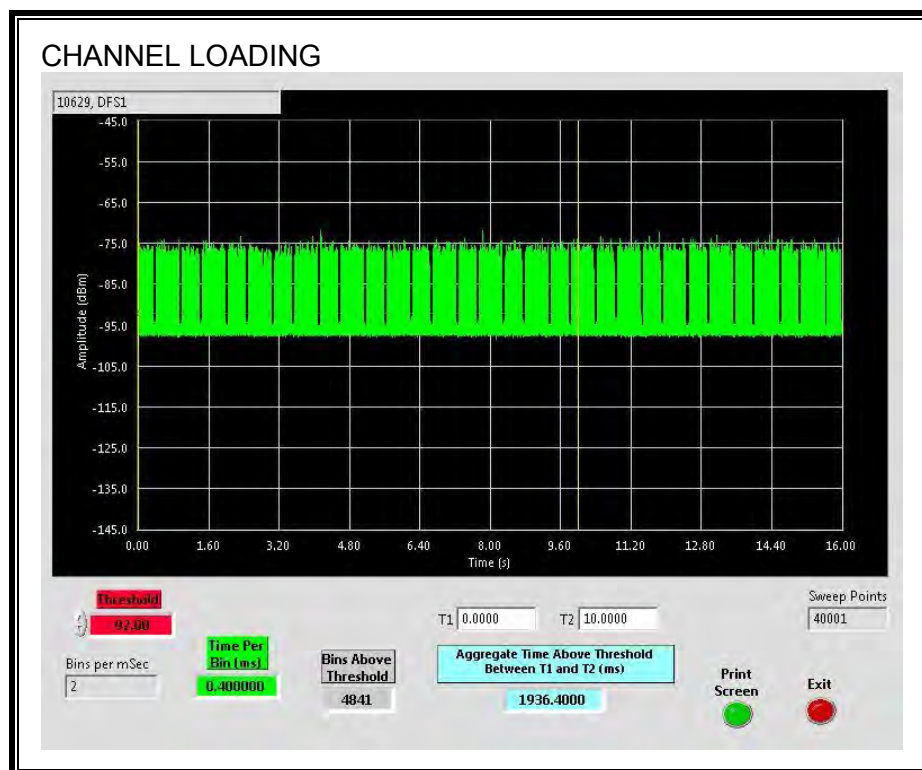
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 19.364%.

11.12.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.12.4. 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)

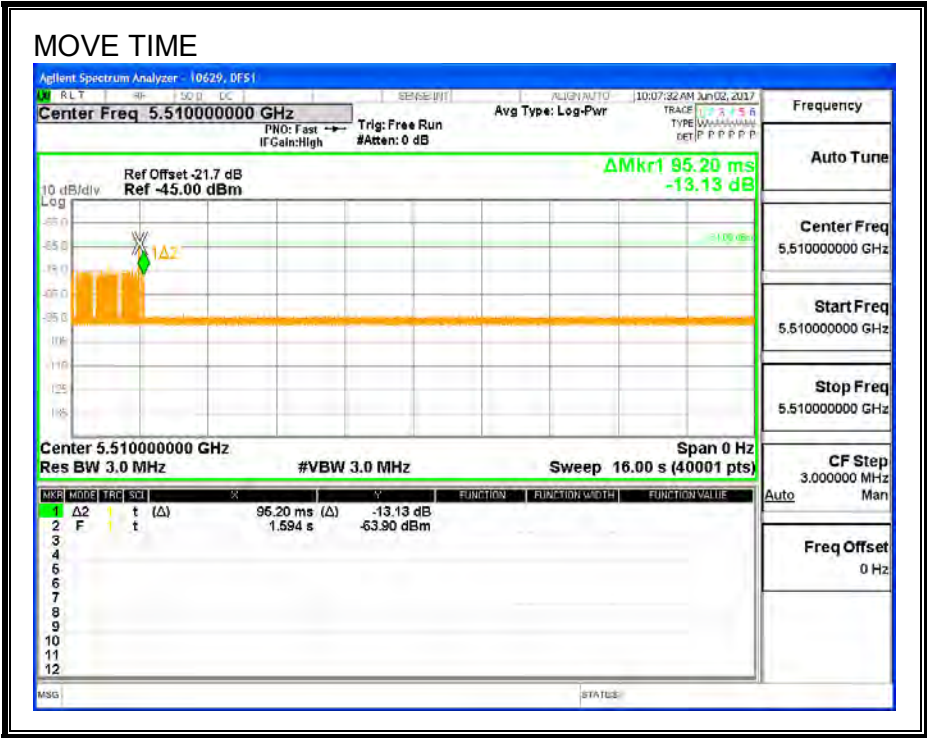
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

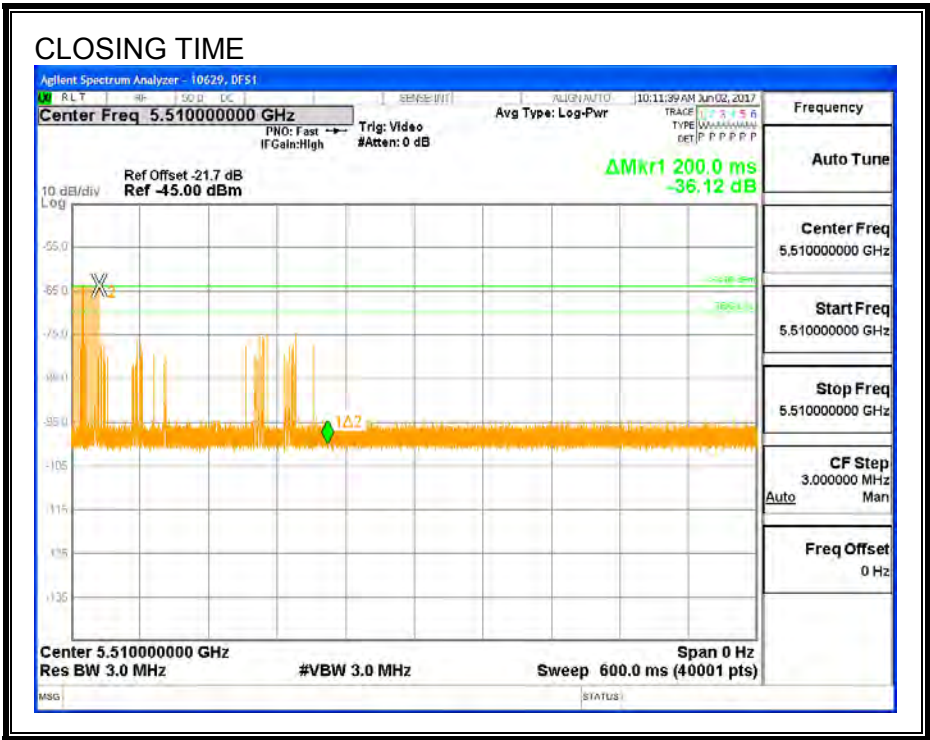
Channel Move Time (sec)	Limit (sec)
0.095	10

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.



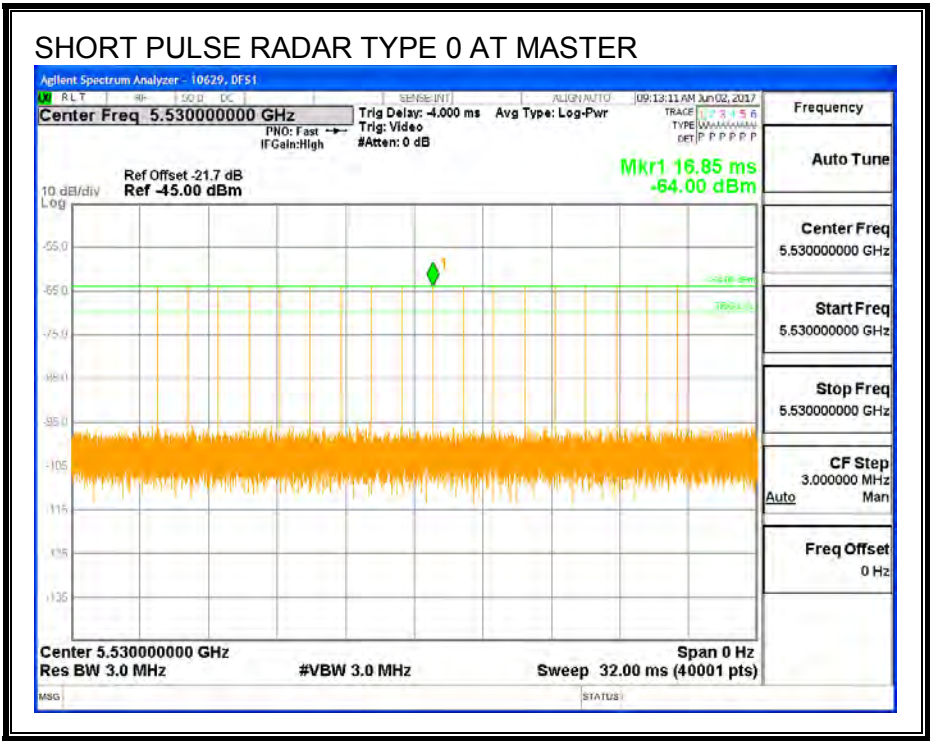
11.13. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 80 MHz BANDWIDTH

11.13.1. TEST CHANNEL

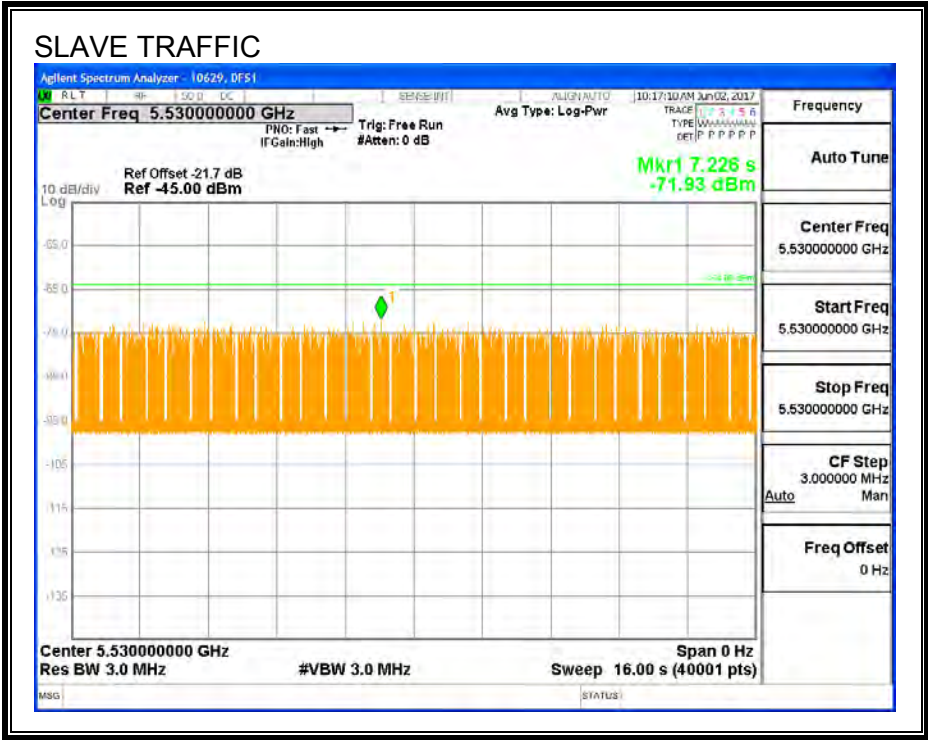
All tests were performed at a channel center frequency of 5530 MHz.

11.13.2. RADAR WAVEFORM AND TRAFFIC

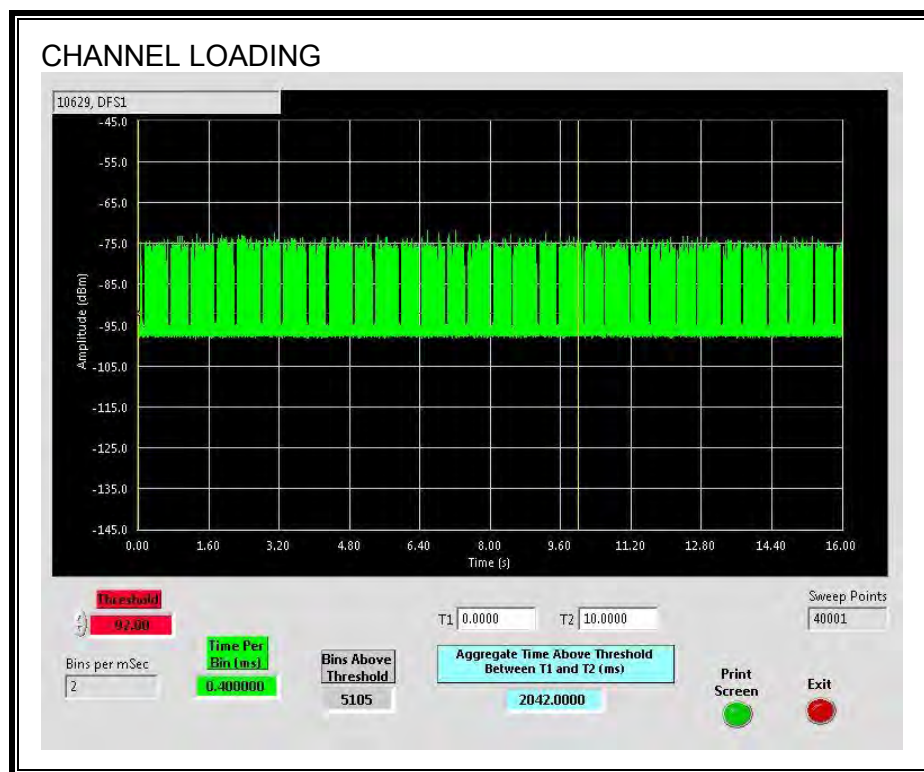
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 20.42%

11.13.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.13.4. 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)

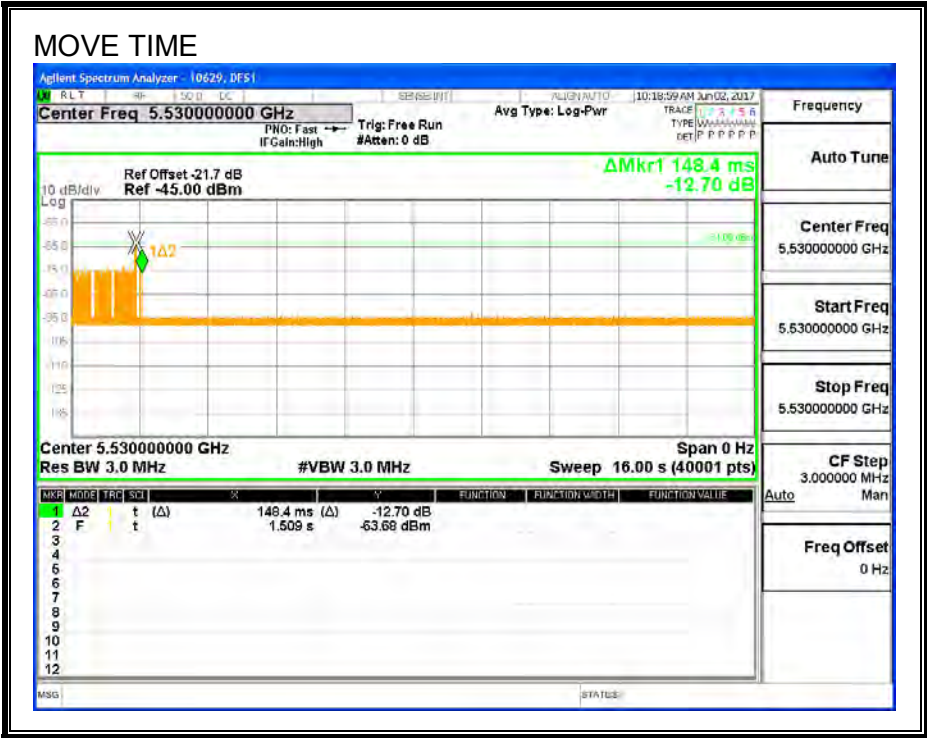
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

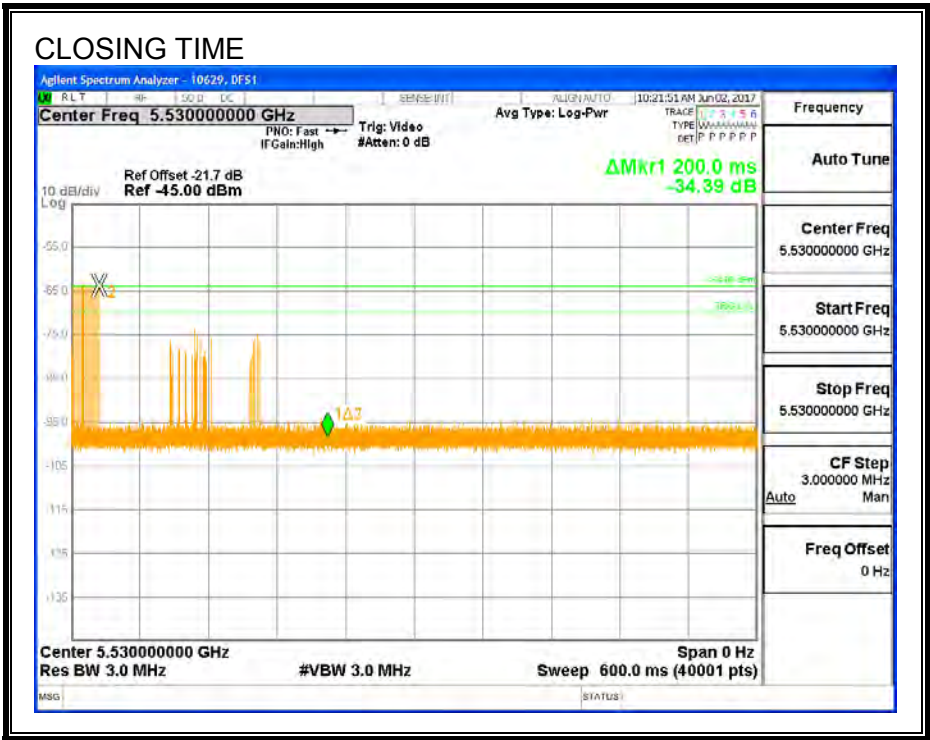
Channel Move Time (sec)	Limit (sec)
0.148	10

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

MOVE TIME

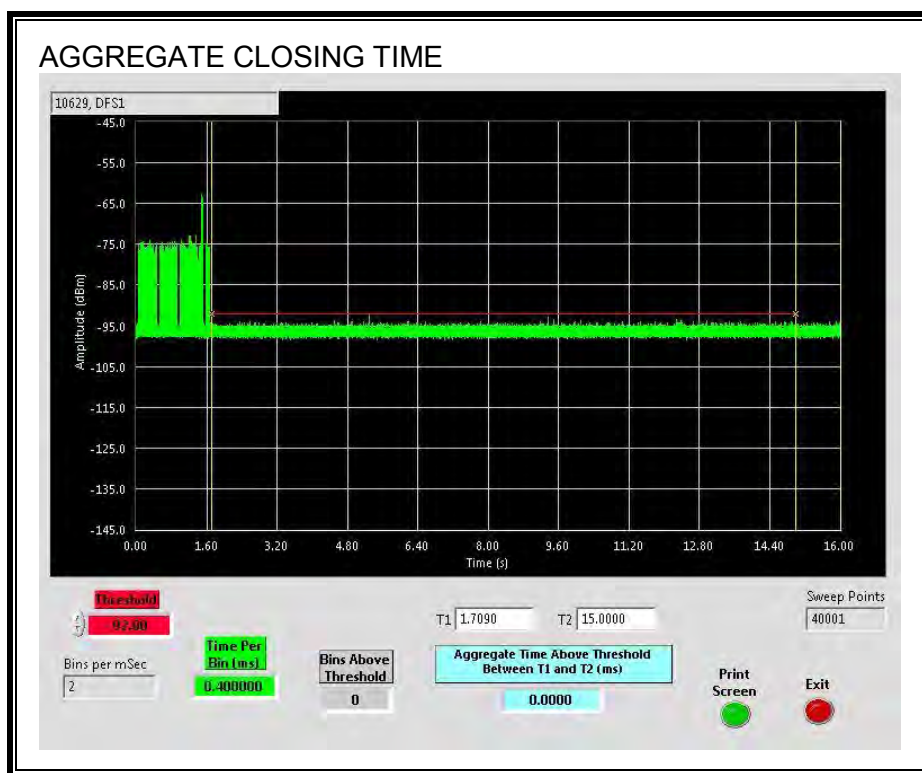


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



11.13.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

