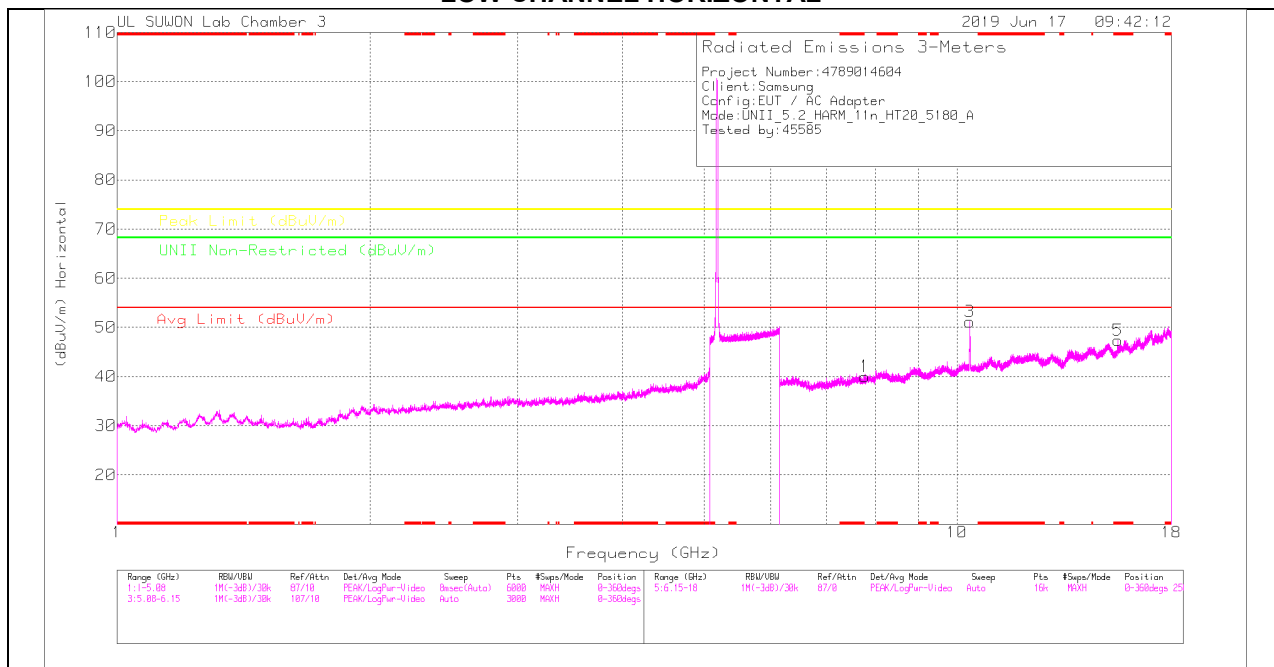
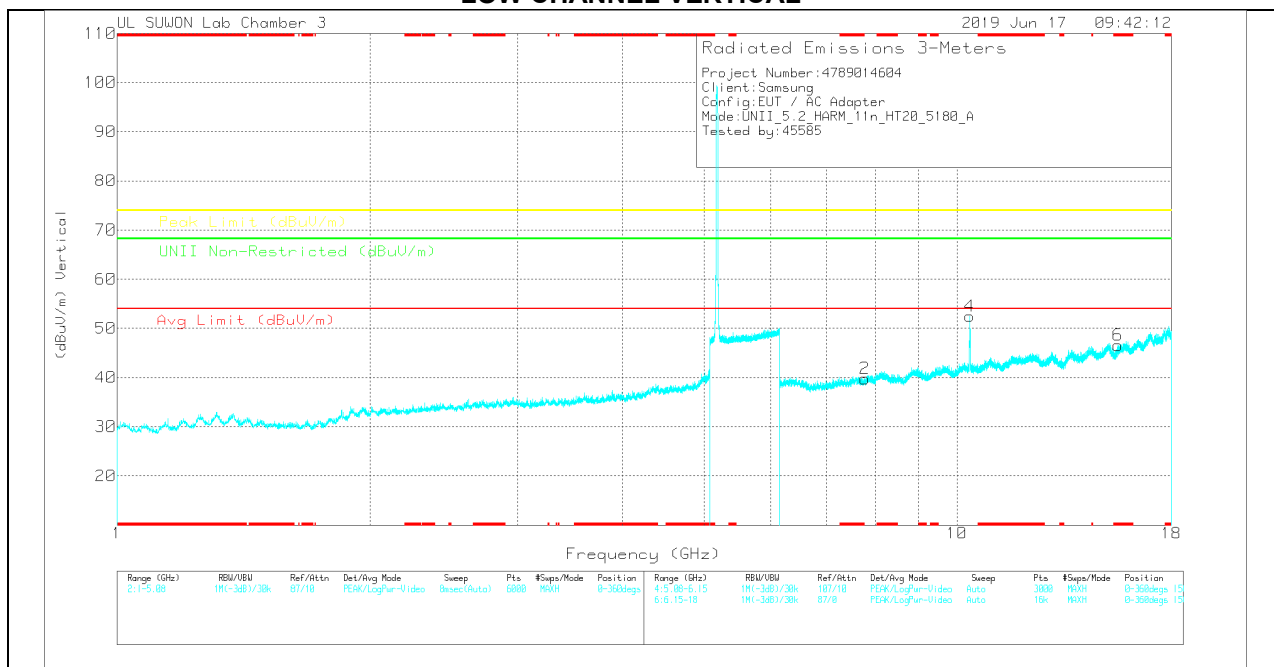


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.771	27.09	PK	35.9	-23	0	39.99	-	-	-	-	68.2	-28.21	0-360	250	H
3	10.362	32.76	PK	37.6	-19.2	0	51.16	-	-	-	-	68.2	-17.04	0-360	150	H
5	* 15.545	26.74	PK	40.2	-19.6	0	47.34	-	-	74	-26.66	-	-	0-360	250	H
2	7.771	26.98	PK	35.9	-23.1	0	39.78	-	-	-	-	68.2	-28.42	0-360	150	V
4	10.362	34.06	PK	37.6	-19.2	0	52.46	-	-	-	-	68.2	-15.74	0-360	250	V
6	* 15.537	26.05	PK	40.2	-19.7	0	46.55	-	-	74	-27.45	-	-	0-360	250	V

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

PK – Peak Detector

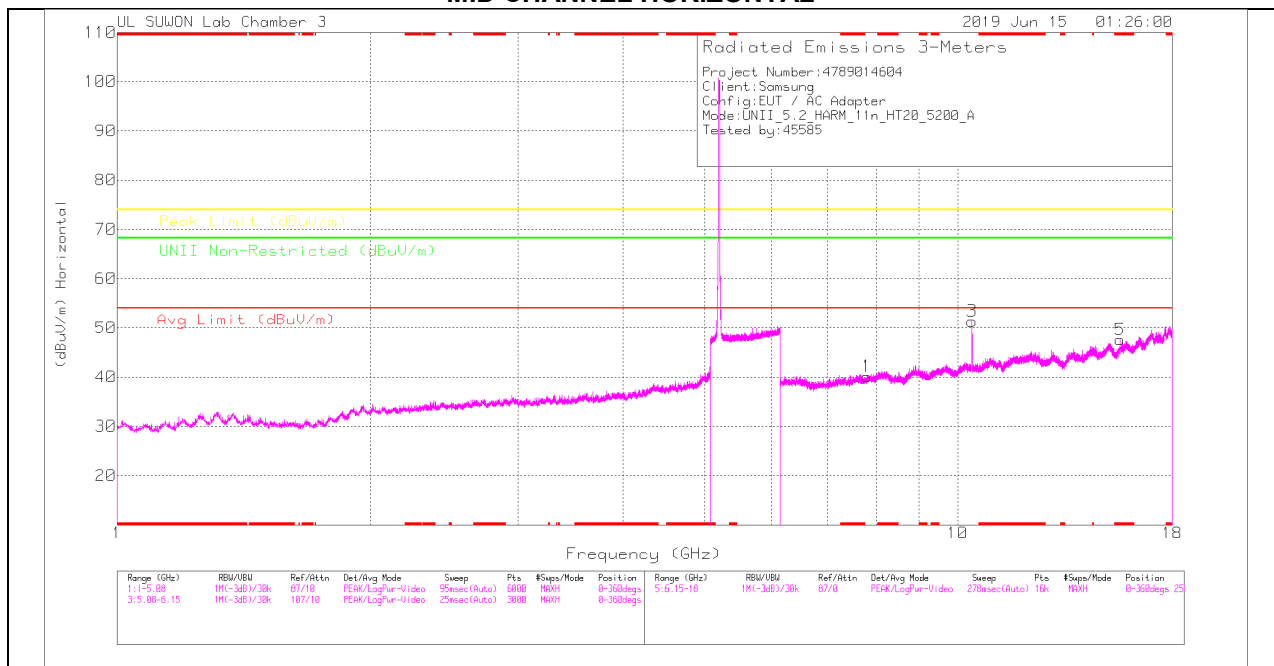
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.36	44.35	PK-U	37.6	-19.2	0	62.75	-	-	-	-	68.2	-5.45	248	121	H
10.357	44.74	PK-U	37.6	-19.2	0	63.14	-	-	-	-	68.2	-5.06	152	186	V

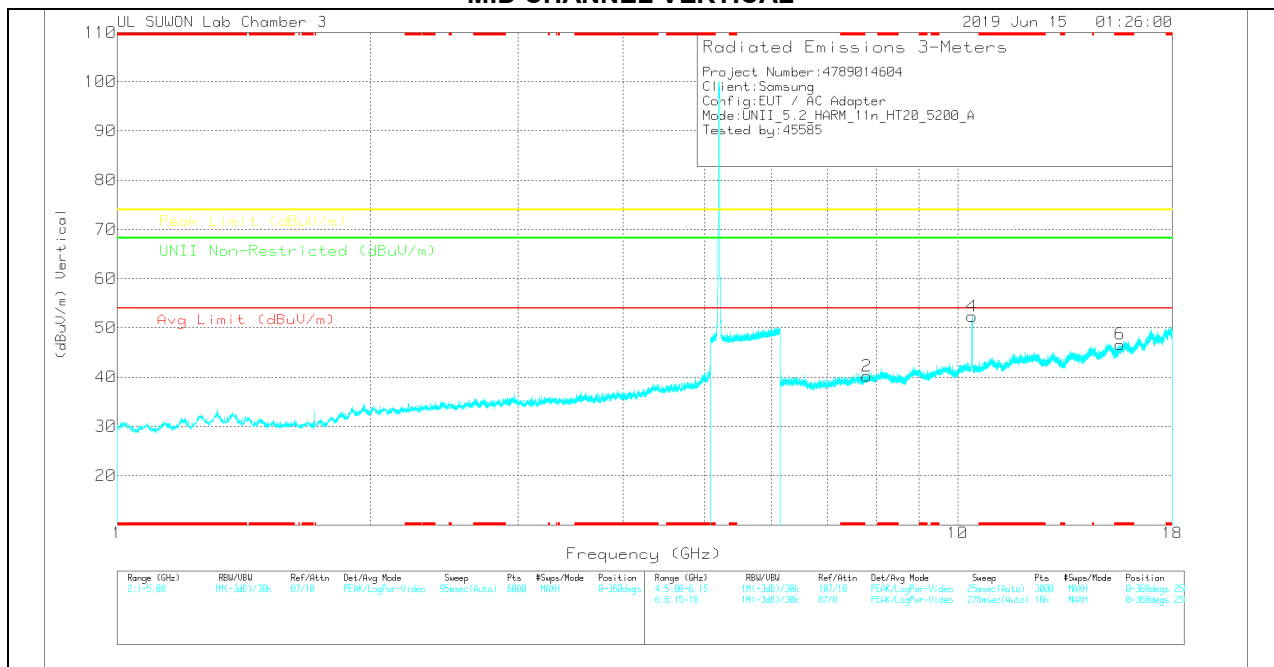
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	7.801	27.03	PK	35.9	-22.8	0	40.13	-	-	-	-	68.2	-28.07	0-360	150	H
3	10.4	33.07	PK	37.6	-19.3	0	51.37	-	-	-	-	68.2	-16.83	0-360	150	H
5	* 15.597	26.93	PK	40.2	-19.5	0	47.63	-	-	74	-26.37	-	-	0-360	250	H
2	7.8	27.12	PK	35.9	-22.8	0	40.22	-	-	-	-	68.2	-27.98	0-360	150	V
4	10.402	34.02	PK	37.6	-19.3	0	52.32	-	-	-	-	68.2	-15.88	0-360	250	V
6	* 15.598	25.97	PK	40.2	-19.5	0	46.67	-	-	74	-27.33	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

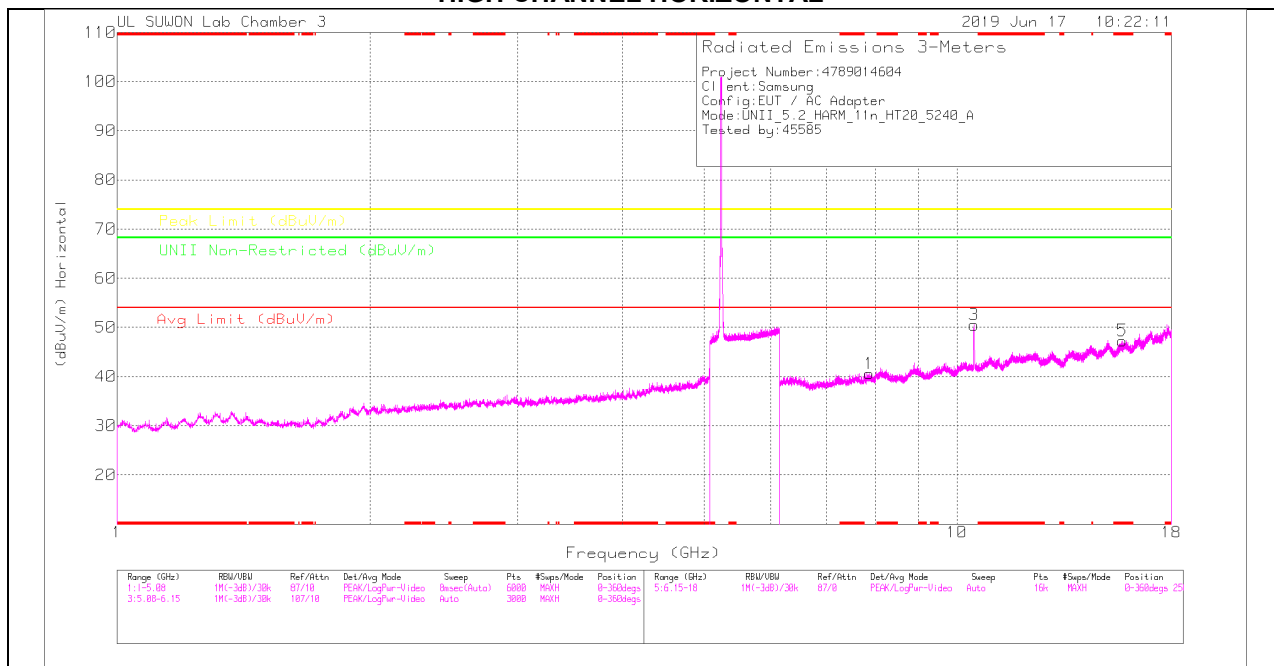
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.397	43.08	PK-U	37.6	-19.2	0	61.48	-	-	-	-	68.2	-6.72	250	126	H
10.402	44.3	PK-U	37.6	-19.3	0	62.6	-	-	-	-	68.2	-5.6	151	188	V
* 15.607	36.59	PK-U	40.2	-19.4	0	57.39	-	-	74	-16.61	-	-	171	227	V
* 15.605	24.58	ADR	40.2	-19.5	23	45.51	54	-8.49	-	-	-	-	171	227	V
* 15.602	38.51	PK-U	40.2	-19.5	0	59.21	-	-	74	-14.79	-	-	173	189	H
* 15.602	25.44	ADR	40.2	-19.5	23	46.37	54	-7.63	-	-	-	-	173	189	H

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

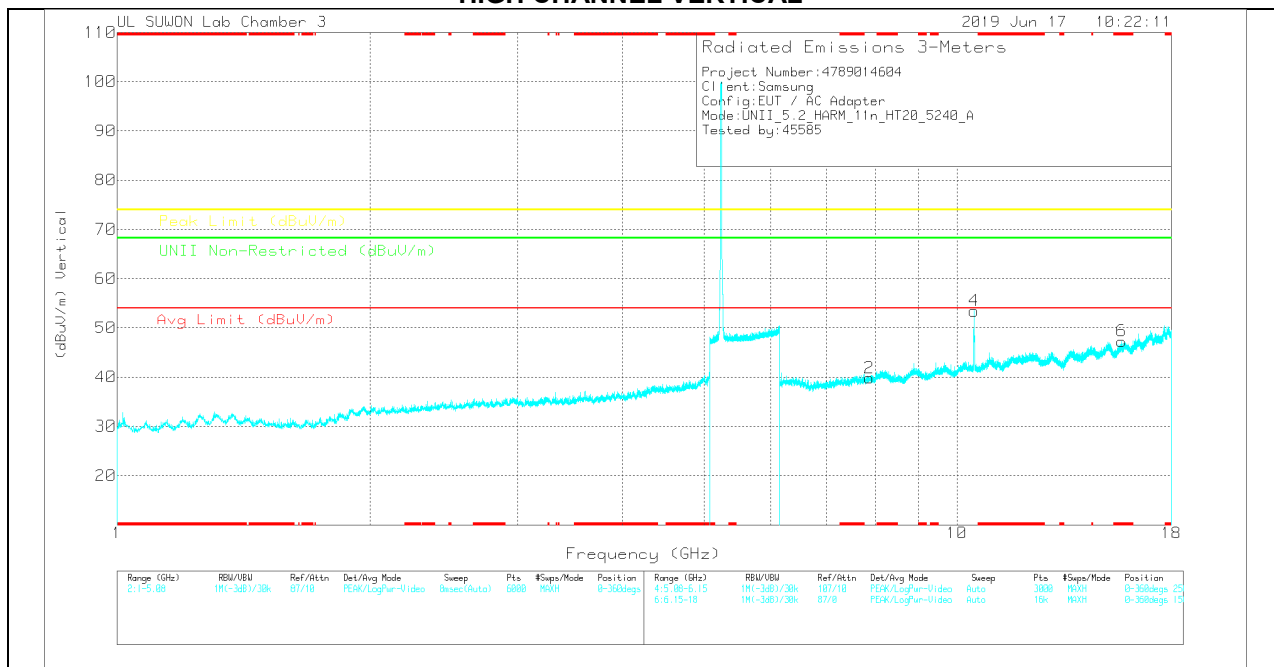
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Ag Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	7.862	27.09	PK	35.9	-22.4	0	40.59	-	-	-	-	68.2	-27.61	0-360	150	H
3	10.478	32.11	PK	37.7	-19.3	0	50.51	-	-	-	-	68.2	-17.69	0-360	150	H
5	* 15.727	25.99	PK	40.4	-19.1	0	47.29	-	-	74	-26.71	-	-	0-360	250	H
2	7.86	26.33	PK	35.9	-22.4	0	39.83	-	-	-	-	68.2	-28.37	0-360	250	V
4	10.48	35.06	PK	37.7	-19.3	0	53.46	-	-	-	-	68.2	-14.74	0-360	250	V
6	* 15.717	26	PK	40.4	-19.1	0	47.3	-	-	74	-26.7	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

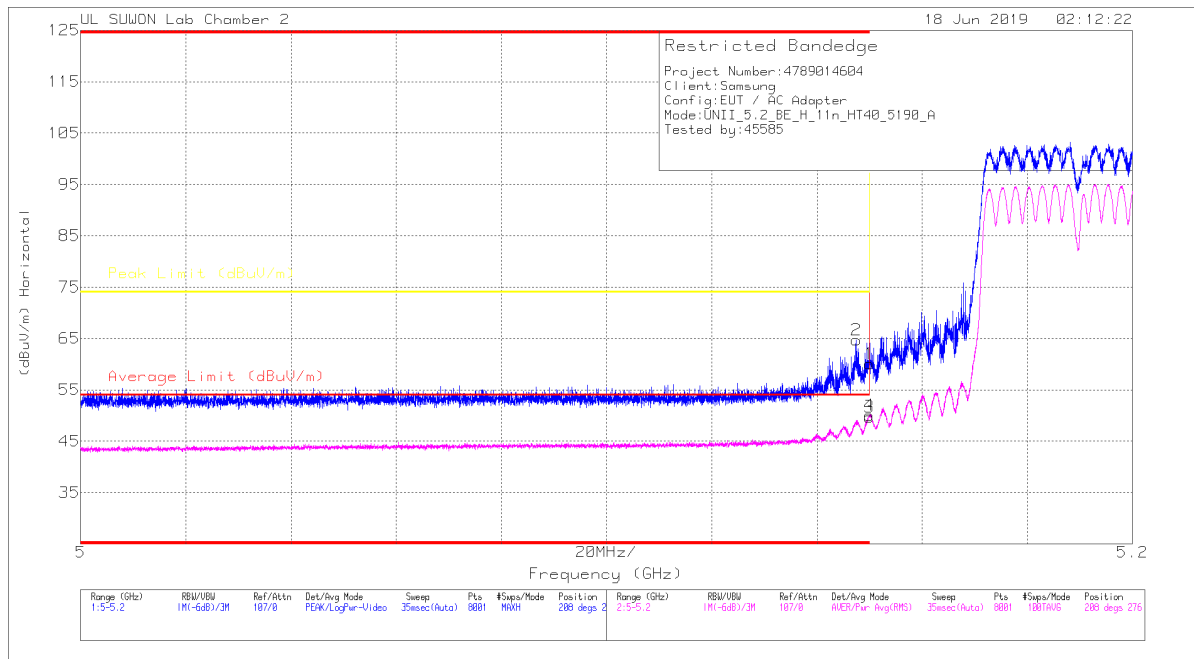
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Ag Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.475	44.78	PK-U	37.7	-19.2	0	63.28	-	-	-	-	68.2	-4.92	258	192	H
10.48	45.45	PK-U	37.7	-19.3	0	63.85	-	-	-	-	68.2	-4.35	156	193	V

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

PK-U - U-NII: Maximum Peak

11.1.3.TX Above 1GHz 802.11n HT40 2Tx CDD MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

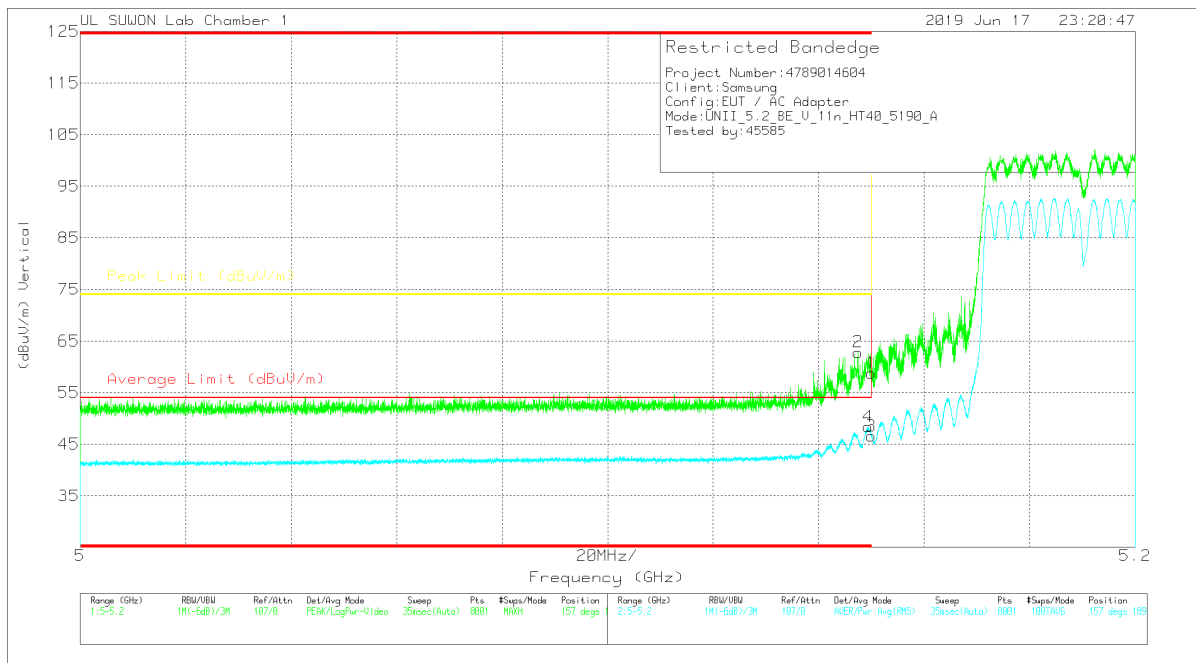
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00158724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	43.97	Pk	34.3	-18.2	0	60.07	-	-	74	-13.93	208	276	H
2	* 5.148	48.52	Pk	34.3	-18.1	0	64.72	-	-	74	-9.28	208	276	H
3	5.15	32.71	RMS	34.3	-17.3	0	49.71	54	-4.29	-	-	208	276	H
4	* 5.15	33.04	RMS	34.3	-17.3	0	50.04	54	-3.96	-	-	208	276	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	46.12	Pk	34.5	-21.8	0	58.82	-	-	74	-15.18	157	189	V
2	* 5.14743	50.23	Pk	34.4	-21.8	0	62.83	-	-	74	-11.17	157	189	V
3	5.15	34.09	RMS	34.5	-22	0	46.59	54	-7.41	-	-	157	189	V
4	* 5.1494	36.01	RMS	34.4	-22	0	48.41	54	-5.59	-	-	157	189	V

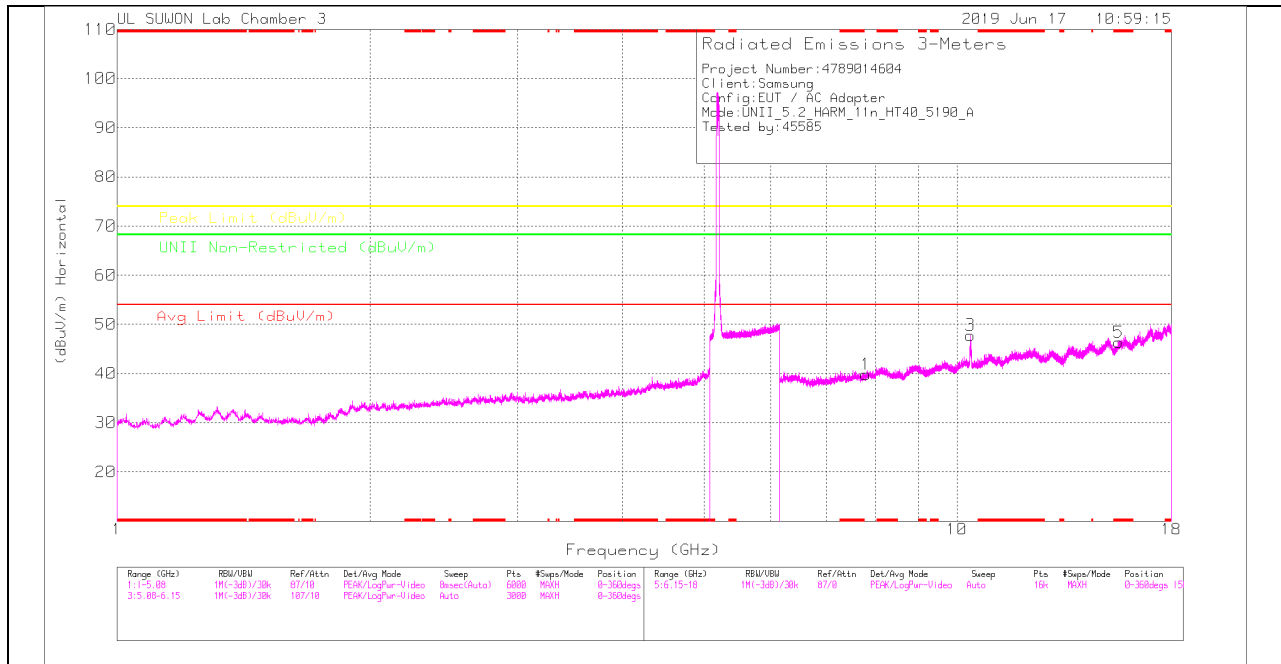
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

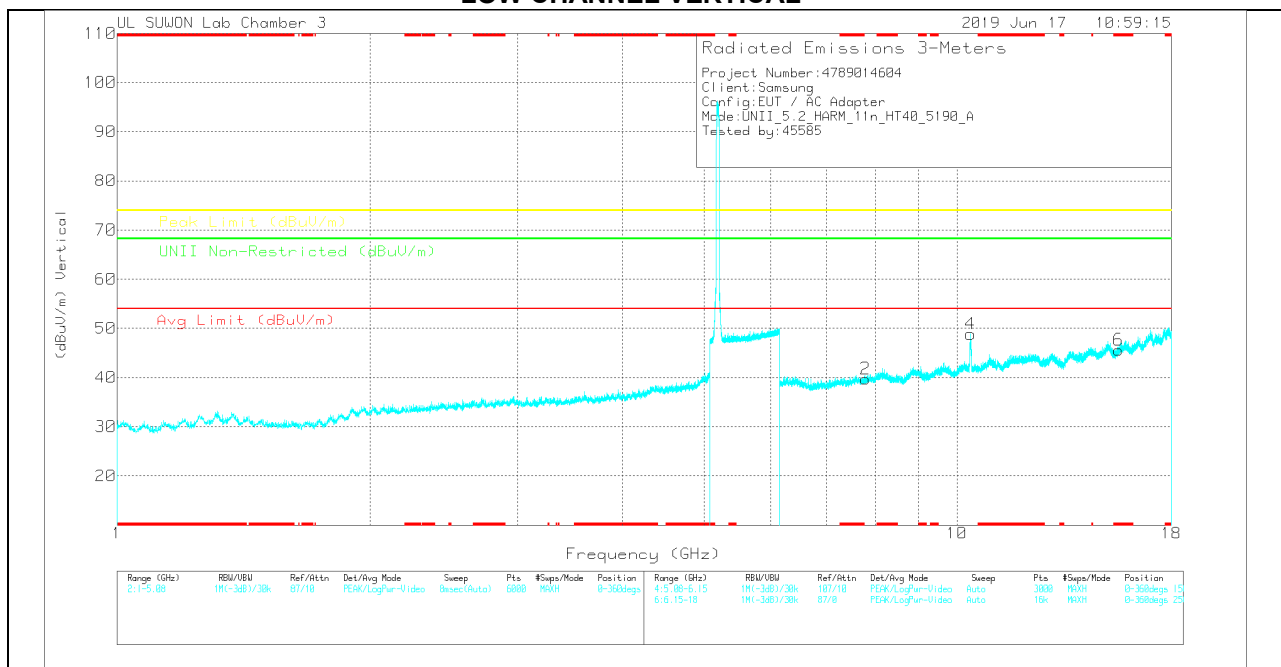
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.79	26.82	PK	35.9	-22.9	0	39.82	-	-	-	-	68.2	-28.38	0-360	150	H
3	10.378	29.39	PK	37.6	-19.2	0	47.79	-	-	-	-	68.2	-20.41	0-360	150	H
5	* 15.567	25.82	PK	40.2	-19.7	0	46.32	-	-	74	-27.68	-	-	0-360	250	H
2	7.783	26.83	PK	35.9	-23	0	39.73	-	-	-	-	68.2	-28.47	0-360	150	V
4	10.382	30.35	PK	37.6	-19.1	0	48.85	-	-	-	-	68.2	-19.35	0-360	250	V
6	* 15.567	25.1	PK	40.2	-19.7	0	45.6	-	-	74	-28.4	-	-	0-360	150	V

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

PK – Peak Detector

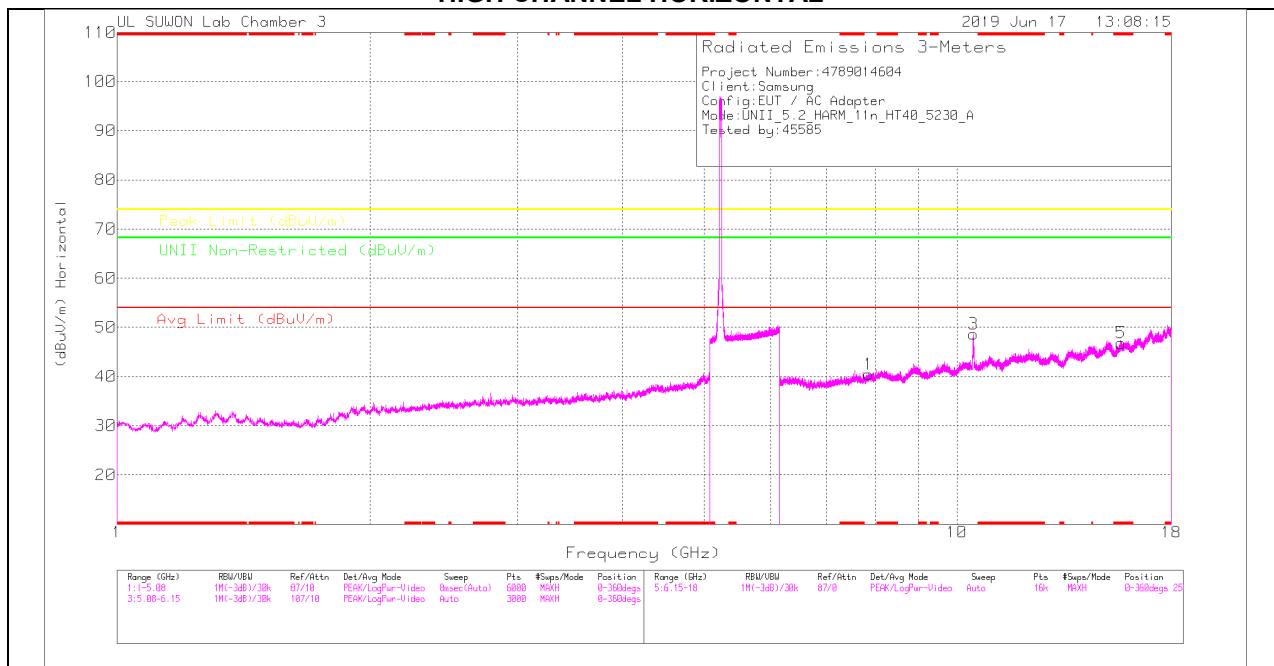
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.378	39.87	PK-U	37.6	-19.2	0	58.27	-	-	-	-	68.2	-9.93	260	194	H
10.377	40.87	PK-U	37.6	-19.2	0	59.27	-	-	-	-	68.2	-8.93	170	180	V

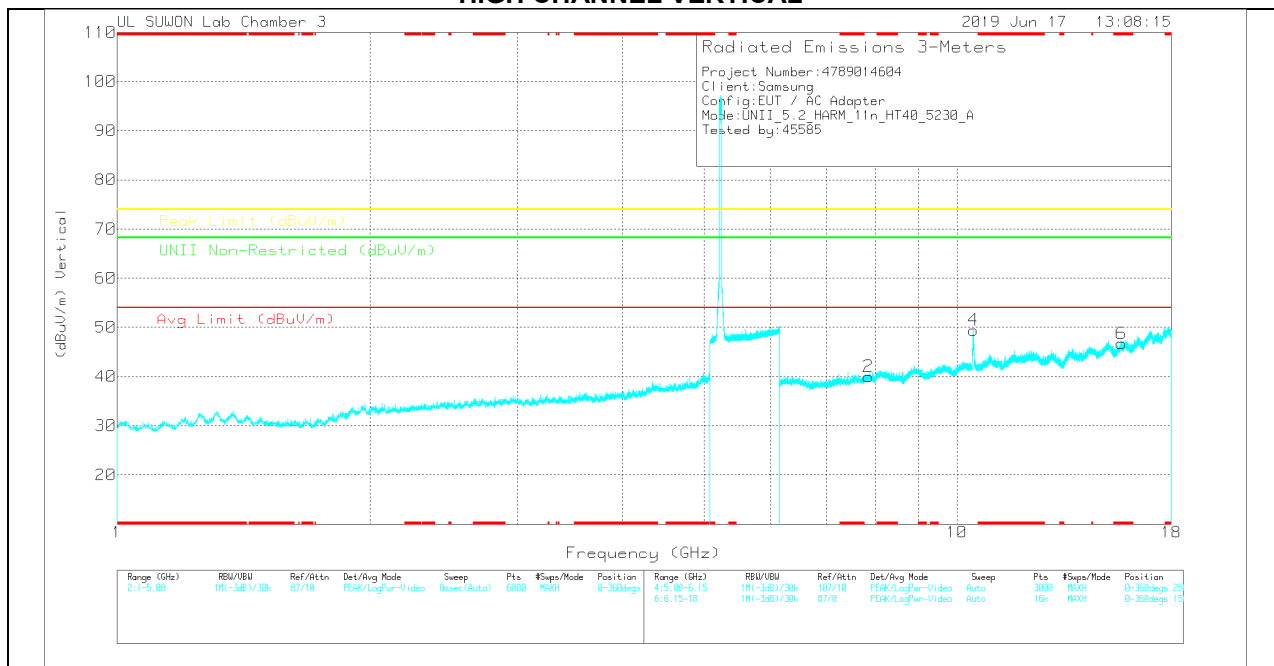
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.849	27.07	PK	35.9	-22.5	0	40.47	-	-	-	-	68.2	-27.73	0-360	150	H
3	10.458	30.22	PK	37.7	-19.3	0	48.62	-	-	-	-	68.2	-19.58	0-360	150	H
5	* 15.687	25.71	PK	40.4	-19.3	0	46.81	-	-	74	-27.19	-	-	0-360	250	H
2	7.845	26.61	PK	35.9	-22.5	0	40.01	-	-	-	-	68.2	-28.19	0-360	150	V
4	10.46	31.06	PK	37.7	-19.3	0	49.46	-	-	-	-	68.2	-18.74	0-360	150	V
6	* 15.694	25.6	PK	40.4	-19.3	0	46.7	-	-	74	-27.3	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

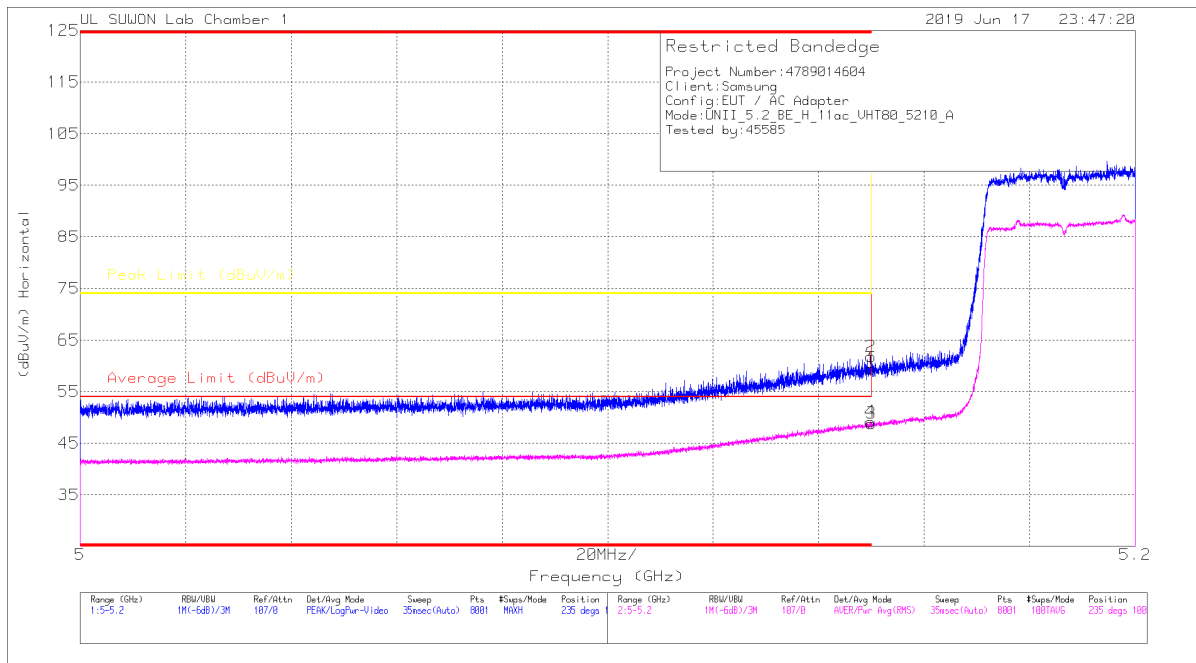
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.462	42.18	PK-U	37.7	-19.4	0	60.48	-	-	-	-	68.2	-7.72	249	125	H
10.46	41.05	PK-U	37.7	-19.3	0	59.45	-	-	-	-	68.2	-8.75	149	192	V

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

PK-U - U-NII: Maximum Peak

11.1.4.TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

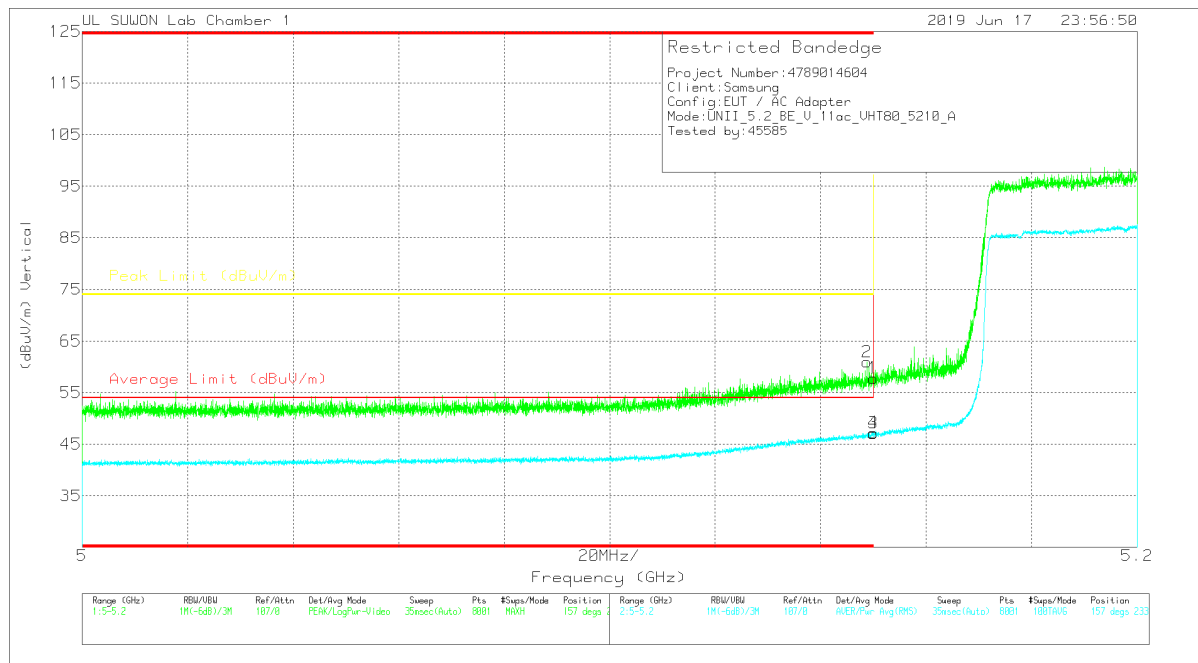
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	46.74	Pk		-21.8	0	59.44	-	-	74	-14.56	235	100	H
2	* 5.1499	49.21	Pk		-21.8	0	61.81	-	-	74	-12.19	235	100	H
3	5.15	36.34	RMS		-22	0	48.84	54	-5.16	-	-	235	100	H
4	* 5.1498	36.76	RMS		-22	0	49.16	54	-4.84	-	-	235	100	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	45.12	Pk	34.5	-21.8	0	57.82	-	-	74	-16.18	157	233	V
2	*5.14878	48.36	Pk	34.4	-21.8	0	60.96	-	-	74	-13.04	157	233	V
3	5.15	34.63	RMS	34.5	-22	0	47.13	54	-6.87	-	-	157	233	V
4	*5.14995	34.83	RMS	34.4	-22	0	47.23	54	-6.77	-	-	157	233	V

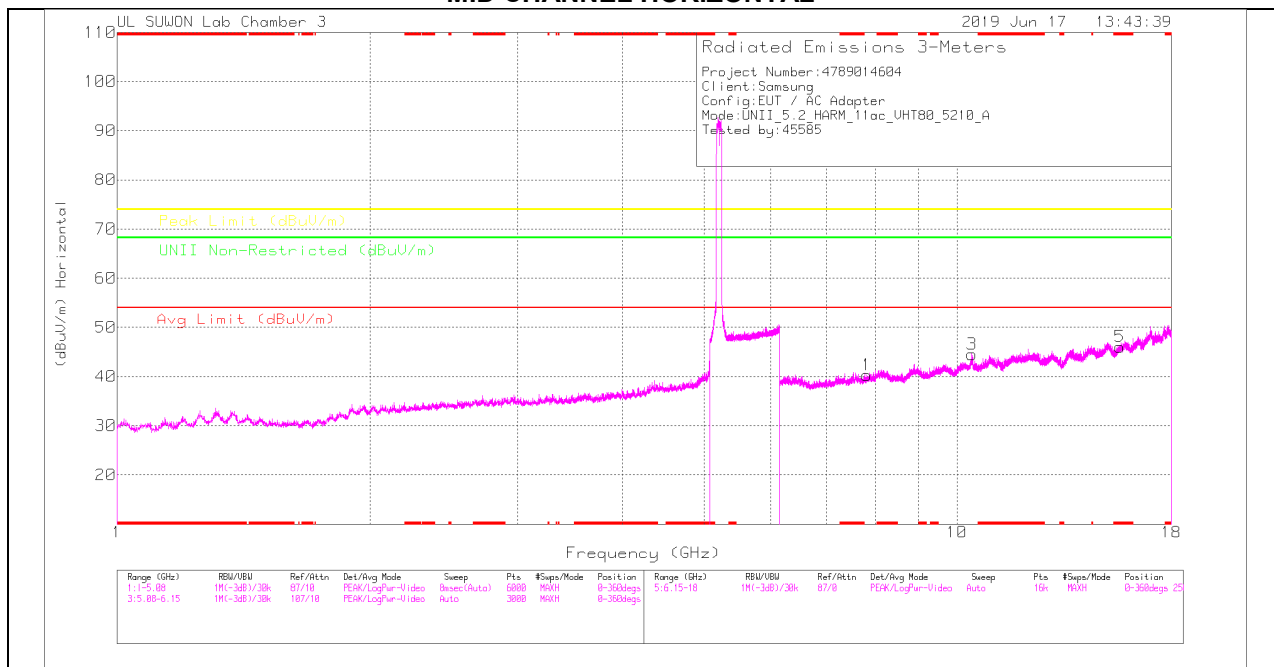
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

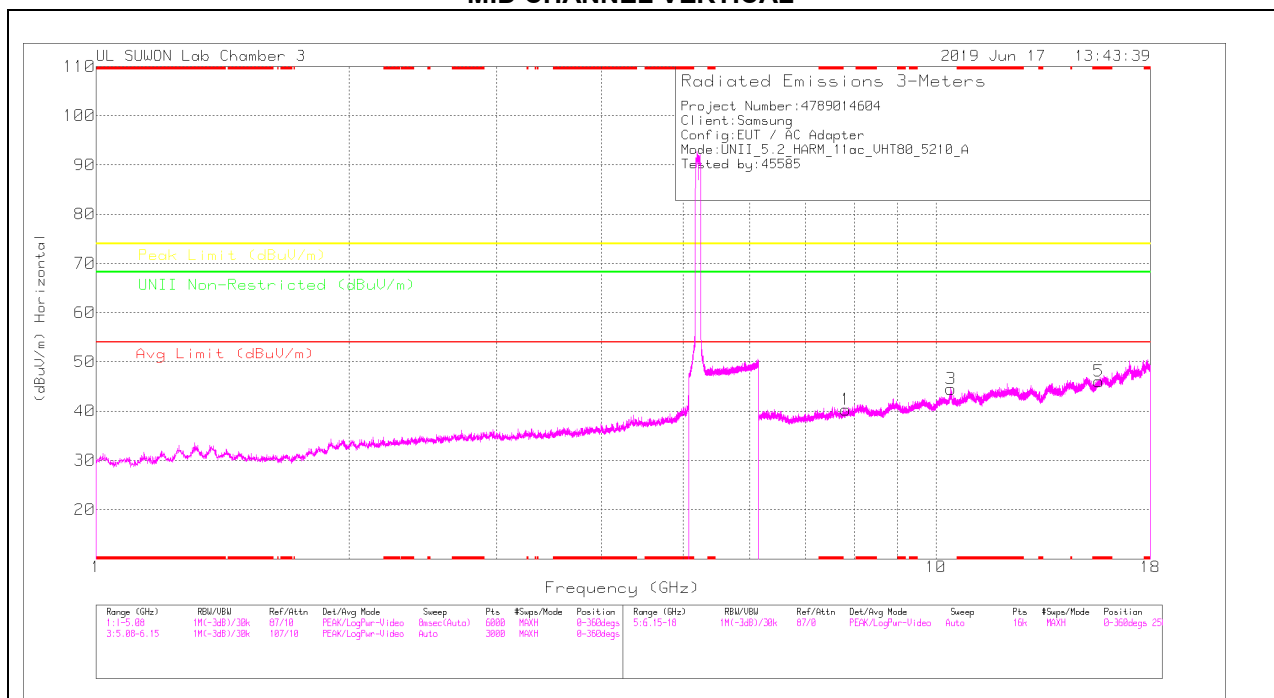
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.815	27.1	PK	35.9	-22.7	0	40.3	-	-	-	-	68.2	-27.9	0-360	250	H
3	10.418	26.32	PK	37.6	-19.4	0	44.52	-	-	-	-	68.2	-23.68	0-360	149	H
5	* 15.628	25.15	PK	40.3	-19.4	0	46.05	-	-	74	-27.95	-	-	0-360	250	H
2	7.813	26.92	PK	35.9	-22.7	0	40.12	-	-	-	-	68.2	-28.08	0-360	250	V
4	10.438	29.68	PK	37.7	-19.3	0	48.08	-	-	-	-	68.2	-20.12	0-360	250	V
6	* 15.632	25.14	PK	40.3	-19.4	0	46.04	-	-	74	-27.96	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.421	38.36	PK-U	37.6	-19.4	0	56.56	-	-	-	-	68.2	-11.64	248	122	H
10.424	37.89	PK-U	37.6	-19.3	0	56.19	-	-	-	-	68.2	-12.01	154	202	V

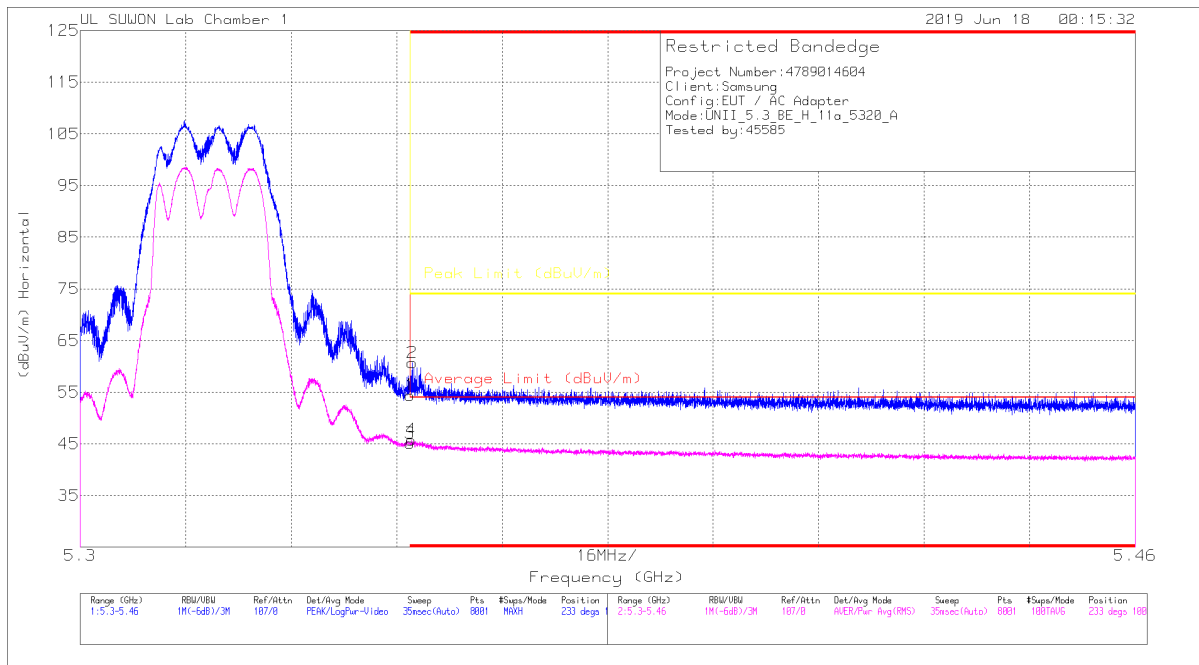
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a 2Tx CDD MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

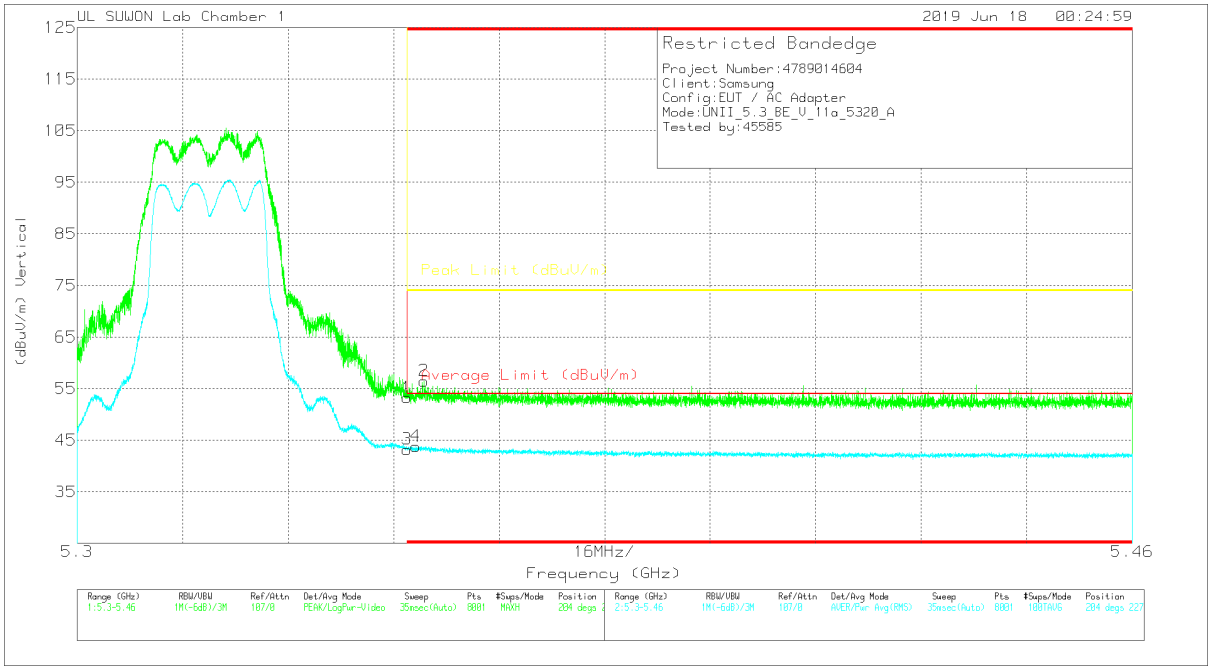
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.35002	41.34	PK	34.7	-21.6	0	54.44	-	-	74	-19.56	233	100	H
2	* 5.35038	47.61	PK	34.7	-21.6	0	60.71	-	-	74	-13.29	233	100	H
3	* 5.35002	32.13	RMS	34.7	-21.7	0	45.13	54	-8.87	-	-	233	100	H
4	* 5.35026	32.75	RMS	34.7	-21.7	0	45.75	54	-8.25	-	-	233	100	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[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	* 5.35002	40.16	Pk	34.7	-21.6	0	53.26	-	-	74	-20.74	204	227	V
2	* 5.35262	43.41	Pk	34.7	-21.6	0	56.51	-	-	74	-17.49	204	227	V
3	* 5.35002	30.24	RMS	34.7	-21.7	0	43.24	54	-10.76	-	-	204	227	V
4	* 5.35138	30.84	RMS	34.7	-21.7	0	43.84	54	-10.16	-	-	204	227	V

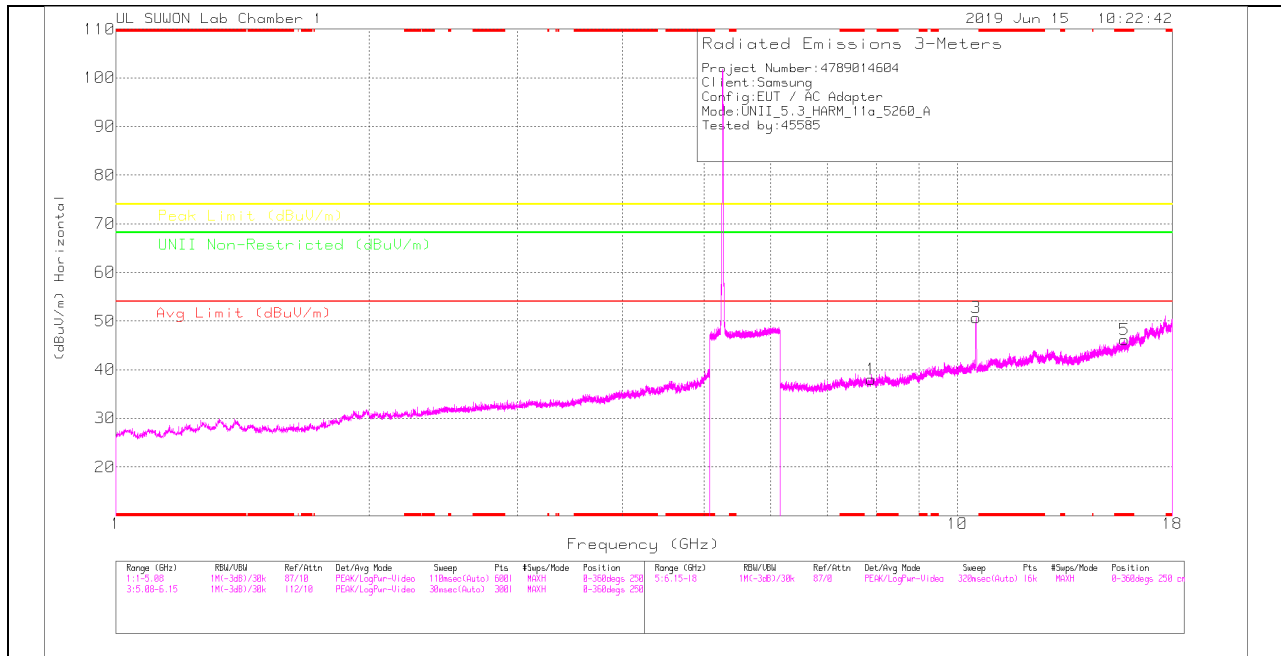
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

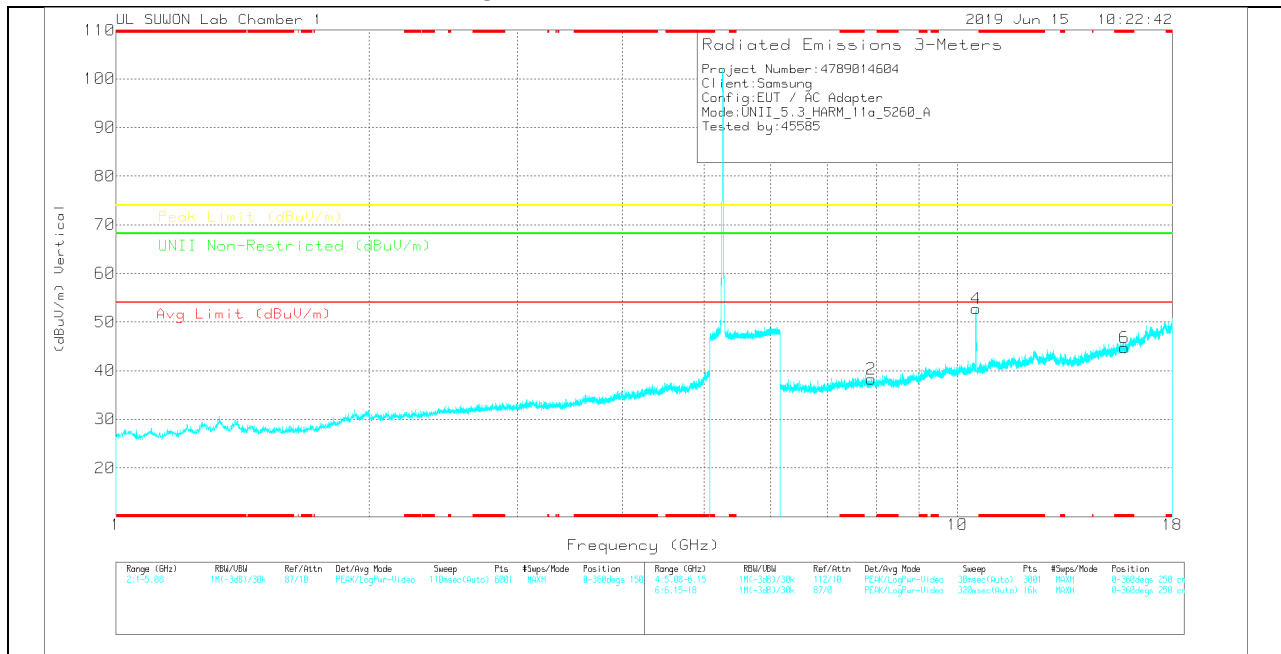
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
1	7.89555	28.35	PK	36	-26.4	0	37.95	-	-	-	-	68.2	-30.25	0-360	250	H
3	10.51868	35.54	PK	37.7	-22.6	0	50.64	-	-	-	-	68.2	-17.56	0-360	150	H
5	* 15.77827	26.88	PK	40.5	-21.2	0	46.18	-	-	74	-27.82	-	-	0-360	250	H
2	7.89111	28.74	PK	36	-26.5	0	38.24	-	-	-	-	68.2	-29.96	0-360	250	V
4	10.52386	37.8	PK	37.7	-22.7	0	52.8	-	-	-	-	68.2	-15.4	0-360	250	V
6	* 15.77975	25.4	PK	40.5	-21.2	0	44.7	-	-	74	-29.3	-	-	0-360	250	V

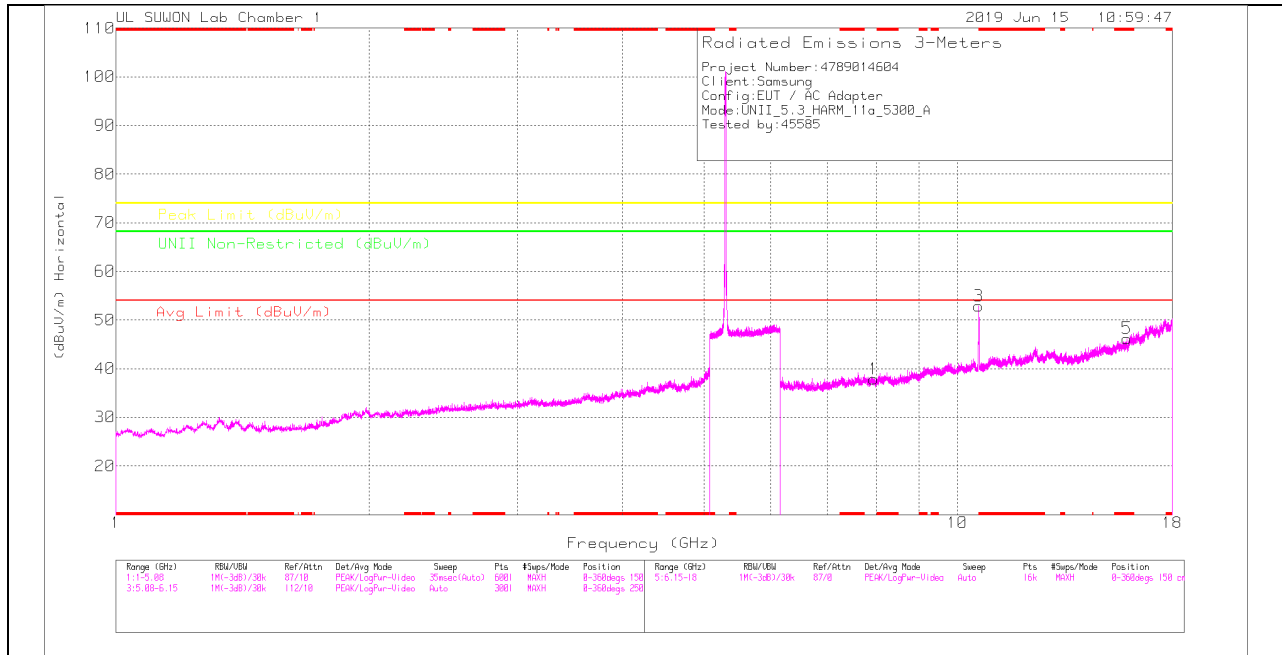
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

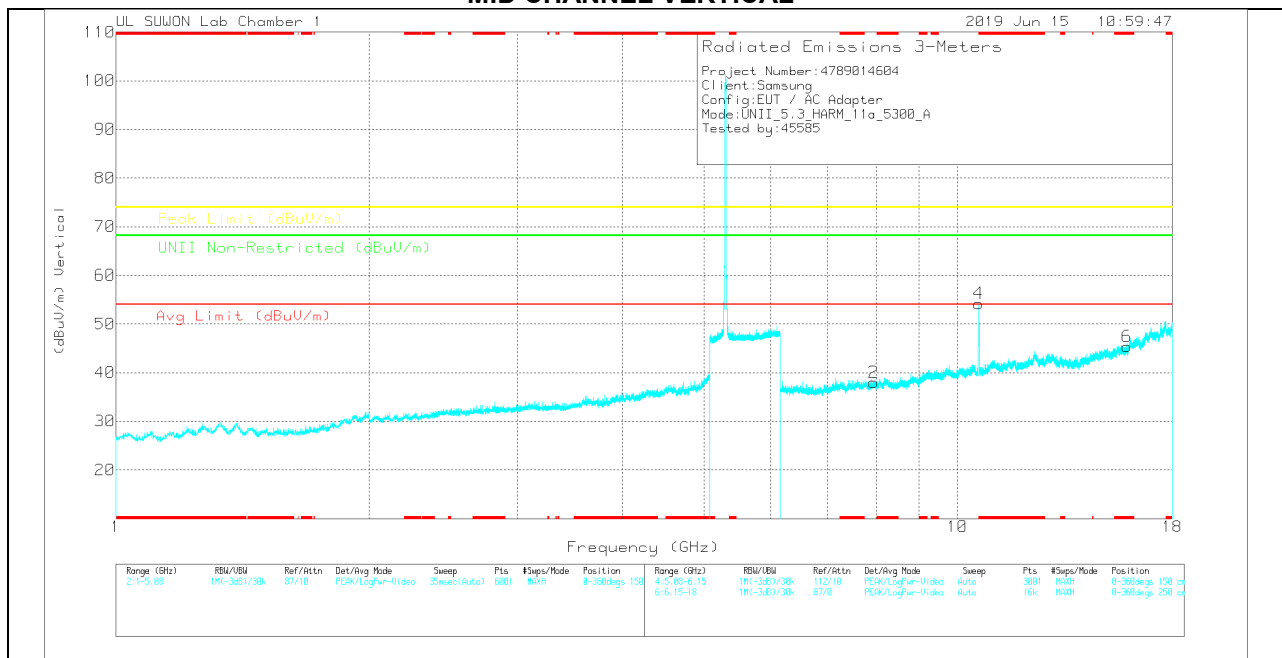
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
10.51972	48.22	PK-U	37.7	-22.6	0	63.32	-	-	-	-	68.2	-4.88	256	183	H
10.51888	49.42	PK-U	37.7	-22.6	0	64.52	-	-	-	-	68.2	-3.68	141	182	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.94961	28.05	PK	36	-26.2	0	37.85	-	-	-	-	68.2	-30.35	0-360	250	H
3	* 10.60384	37.32	PK	37.8	-22.3	0	52.82	-	-	74	-21.18	-	-	0-360	150	H
5	* 15.90046	26.71	PK	40.6	-21.1	0	46.21	-	-	74	-27.79	-	-	0-360	250	H
2	7.95257	28.17	PK	36	-26.2	0	37.97	-	-	-	-	68.2	-30.23	0-360	150	V
4	* 10.60014	38.73	PK	37.8	-22.3	0	54.23	-	-	74	-19.77	-	-	0-360	250	V
6	* 15.90417	25.91	PK	40.6	-21.1	0	45.41	-	-	74	-28.59	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

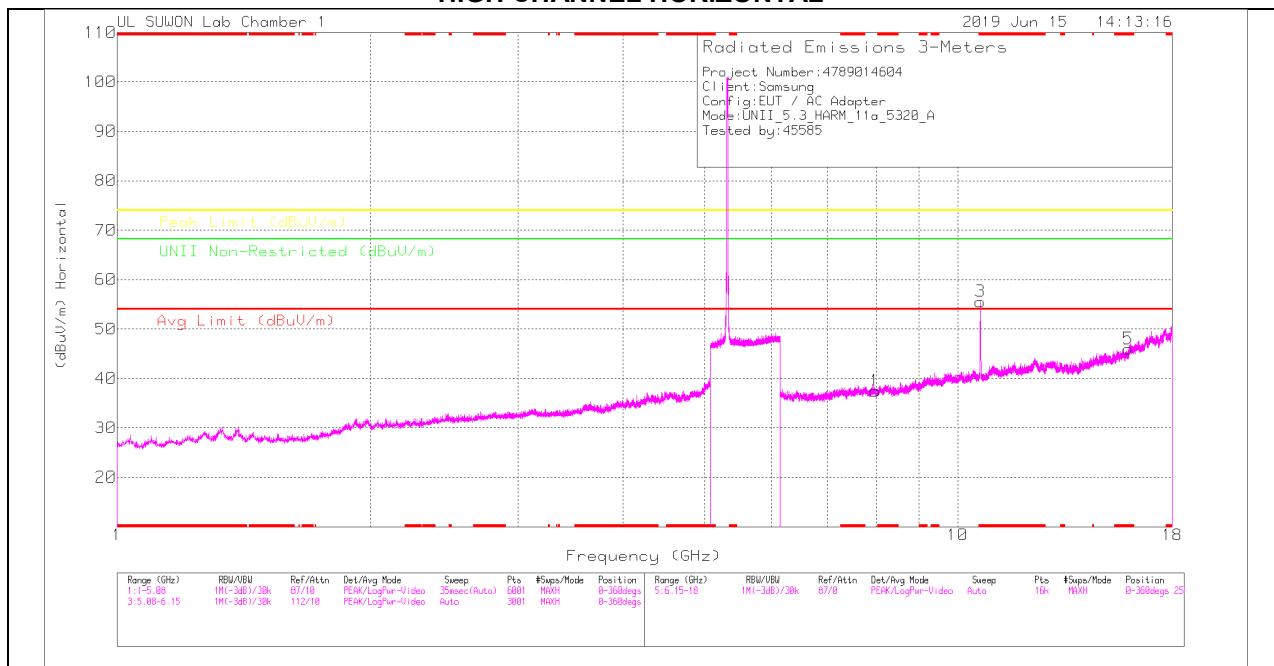
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.59887	48.47	PK-U	37.8	-22.3	0	61.97	-	-	-	-	68.2	-6.23	264	180	H
10.59947	33.52	ADR	37.8	-22.3	0	49.02	54	-4.98	-	-	-	-	264	180	H
10.59905	46.8	PK-U	37.8	-22.3	0	62.3	-	-	-	-	68.2	-5.9	154	188	V
10.59905	33.81	ADR	37.8	-22.3	0	49.31	54	-4.69	-	-	-	-	154	188	V

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

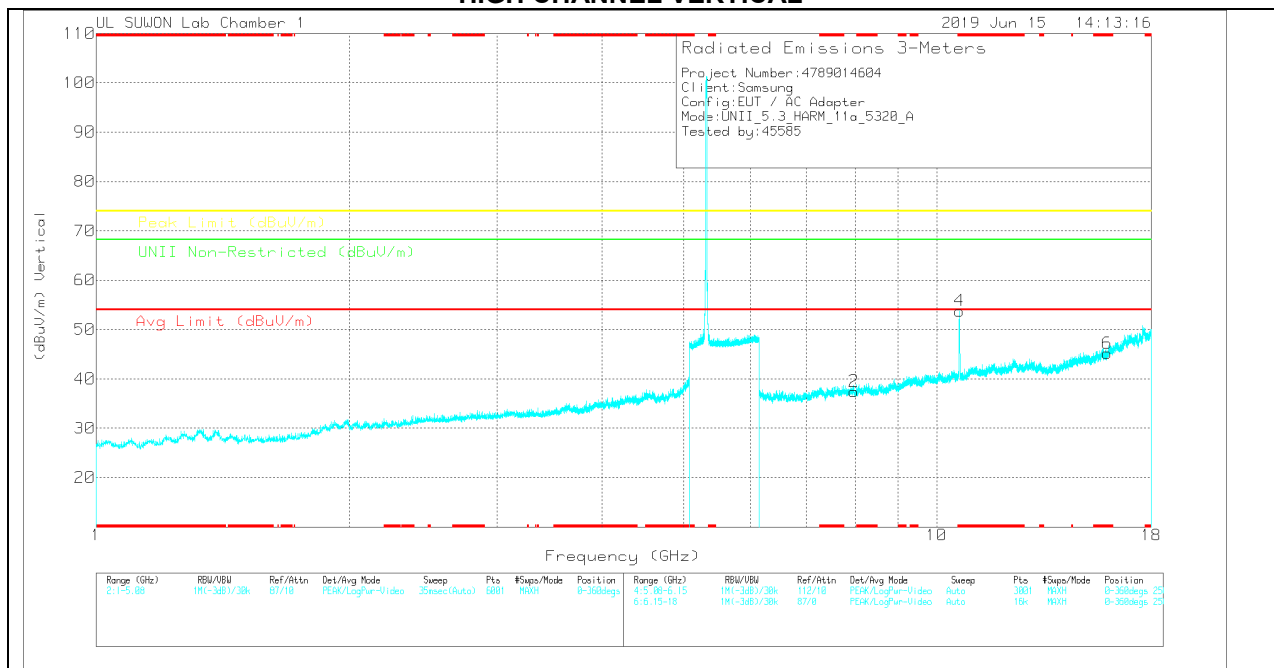
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.97849	27.81	PK	36	-26.3	0	37.51	-	-	-	-	68.2	-30.69	0-360	250	H
3	* 10.63865	39.86	PK	37.8	-22.1	0	55.56	-	-	74	-18.44	-	-	0-360	150	H
5	* 15.95379	26.19	PK	40.7	-20.9	0	45.99	-	-	74	-28.01	-	-	0-360	250	H
2	7.97479	27.66	PK	36	-26.2	0	37.46	-	-	-	-	68.2	-30.74	0-360	150	V
4	* 10.63939	38.09	PK	37.8	-22.1	0	53.79	-	-	74	-20.21	-	-	0-360	150	V
6	* 15.95379	25.37	PK	40.7	-20.9	0	45.17	-	-	74	-28.83	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.59887	48.47	PK-U	37.8	-22.3	0	61.97	-	-	-	-	68.2	-6.23	264	180	H
10.59947	33.52	ADR	37.8	-22.3	0	49.02	54	-4.98	-	-	-	-	264	180	H
10.59905	46.8	PK-U	37.8	-22.3	0	62.3	-	-	-	-	68.2	-5.9	154	188	V
10.59905	33.81	ADR	37.8	-22.3	0	49.31	54	-4.69	-	-	-	-	154	188	V

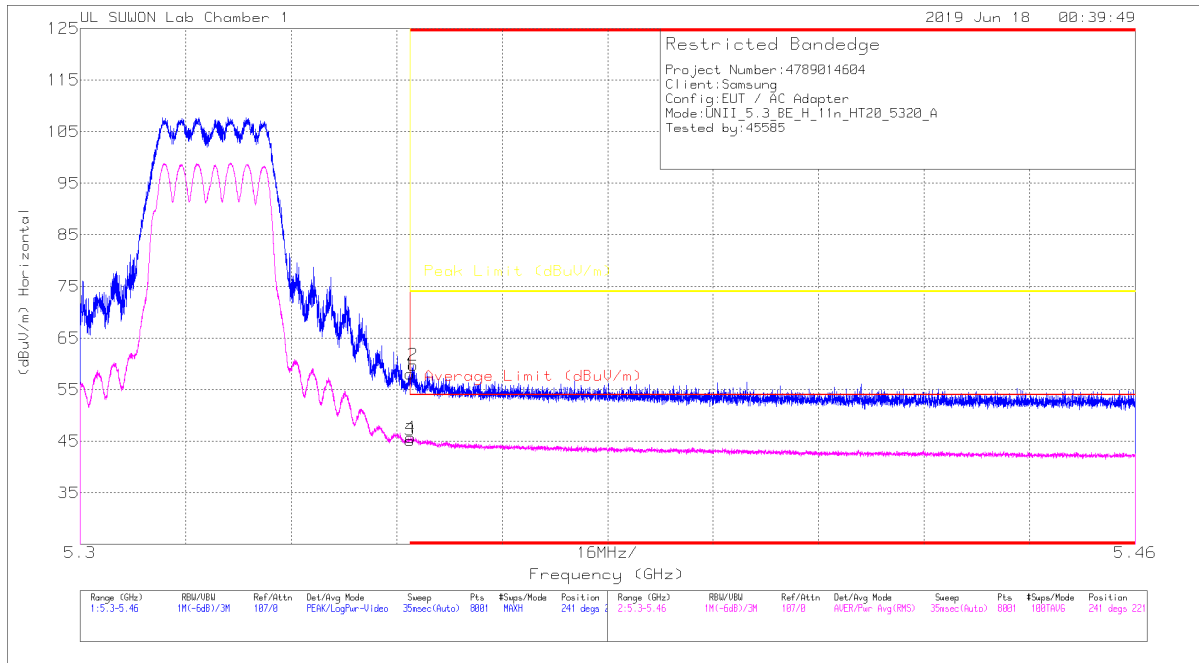
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.2.TX ABOVE 1GHz 802.11n HT20 2Tx CDD MODE IN THE 5.3GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

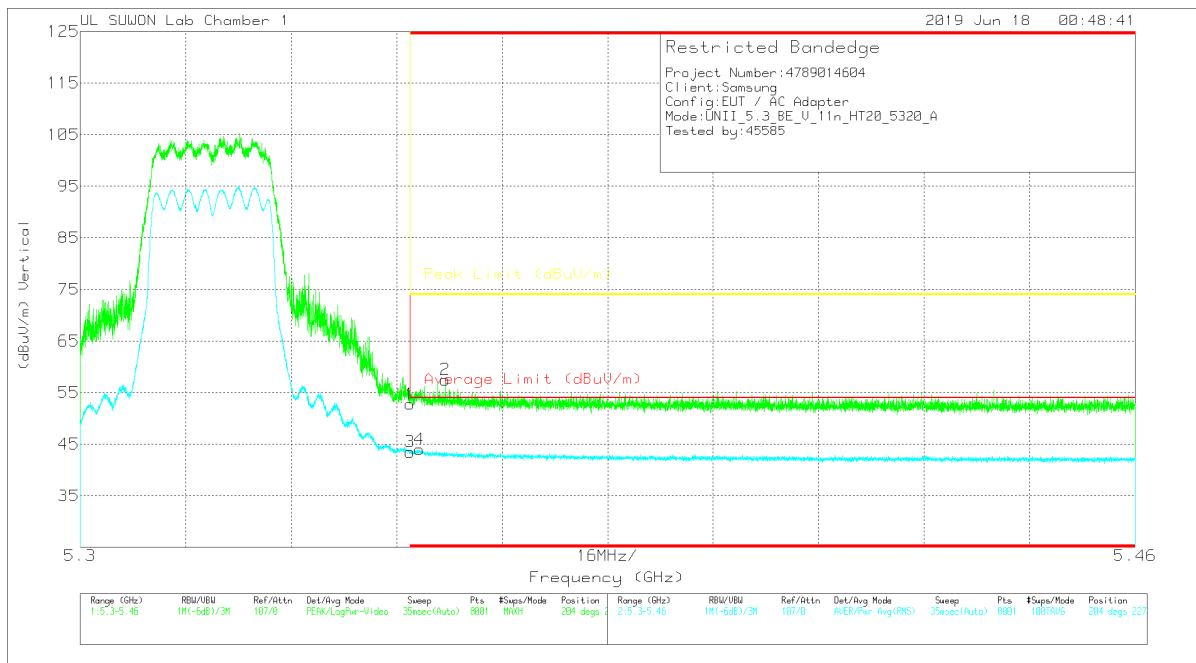
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	44.92	Pk	34.7	-21.6	0	58.02	-	-	74	-15.98	241	221	H
2	* 5.3505	46.67	Pk	34.7	-21.6	0	59.77	-	-	74	-14.23	241	221	H
3	* 5.35002	32.19	RMS	34.7	-21.7	0	45.19	54	-8.81	-	-	241	221	H
4	* 5.35014	32.73	RMS	34.7	-21.7	0	45.73	54	-8.27	-	-	241	221	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB(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	* 5.35002	39.7	Pk	34.7	-21.6	0	52.8	-	-	74	-21.2	204	227	V
2	* 5.35538	44.39	Pk	34.7	-21.6	0	57.49	-	-	74	-16.51	204	227	V
3	* 5.35002	30.5	RMS	34.7	-21.7	0	43.5	54	-10.5	-	-	204	227	V
4	* 5.35144	31.01	RMS	34.7	-21.7	0	44.01	54	-9.99	-	-	204	227	V

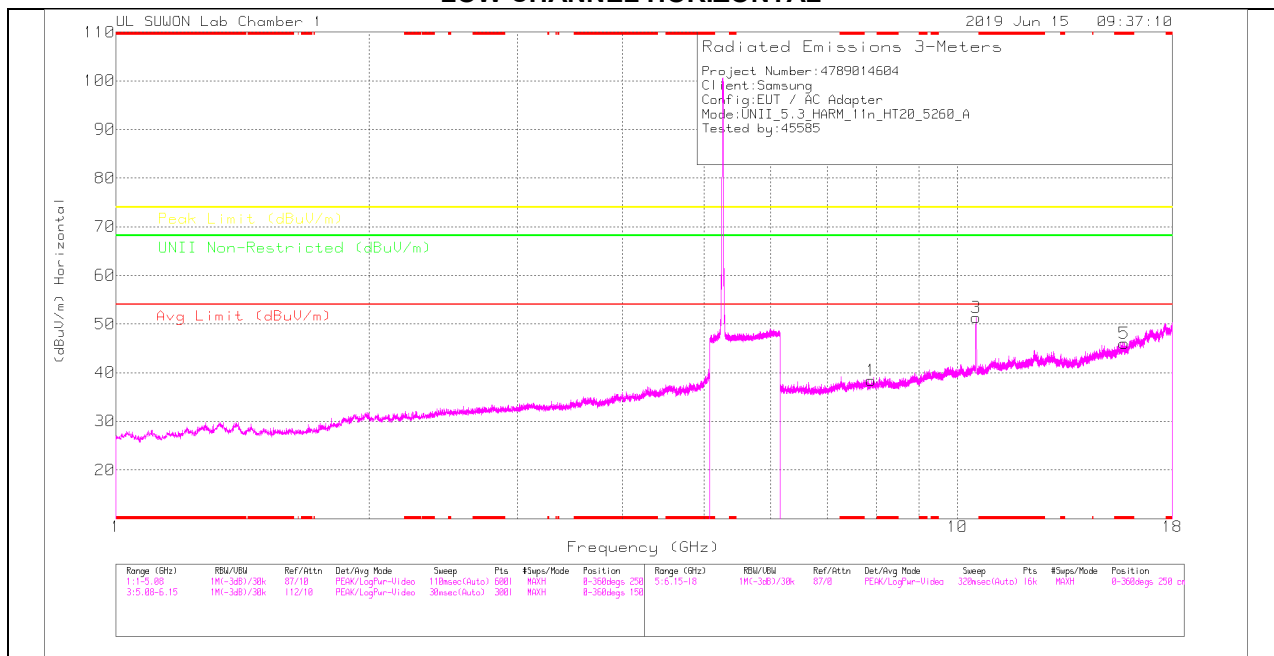
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

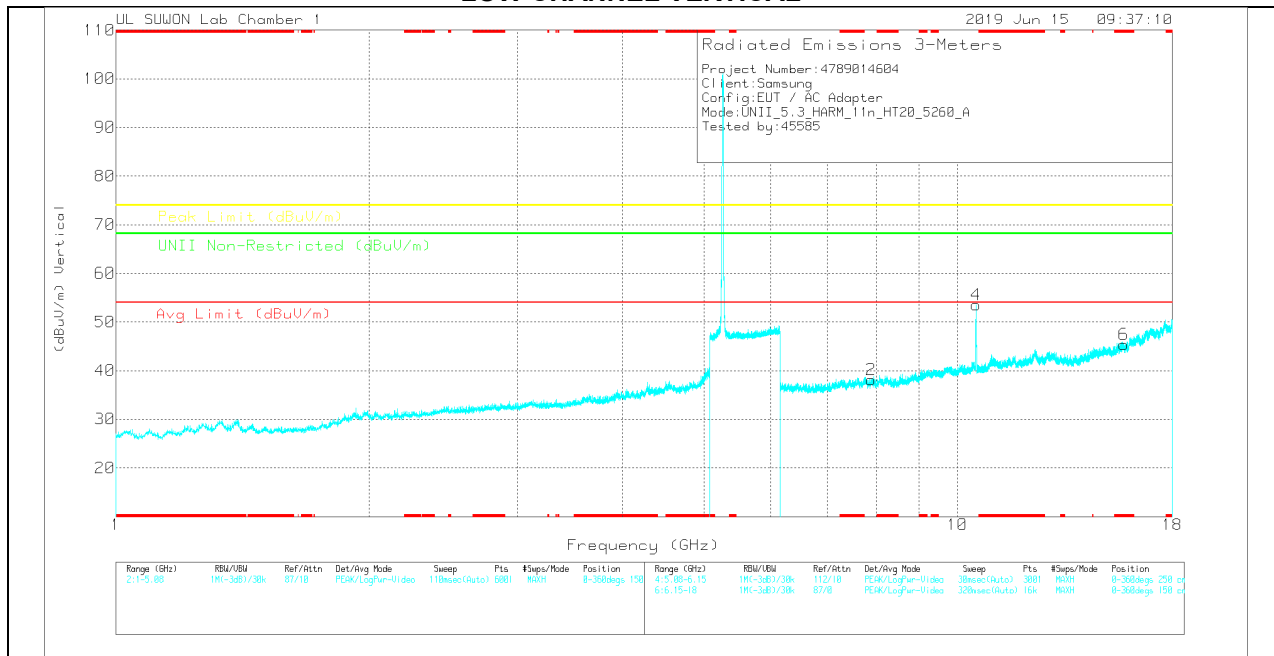
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.89555	28.77	PK	36	-26.4	0	38.37	-	-	-	-	68.2	-29.83	0-360	250	H
3	10.51942	36.27	PK	37.7	-22.6	0	51.37	-	-	-	-	68.2	-16.83	0-360	150	H
5	* 15.77753	26.67	PK	40.5	-21.2	0	45.97	-	-	74	-28.03	-	-	0-360	150	H
2	7.8948	28.55	PK	36	-26.4	0	38.15	-	-	-	-	68.2	-30.05	0-360	250	V
4	10.51719	38.46	PK	37.7	-22.6	0	53.56	-	-	-	-	68.2	-14.64	0-360	250	V
6	* 15.77531	25.97	PK	40.5	-21.1	0	45.37	-	-	74	-28.63	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

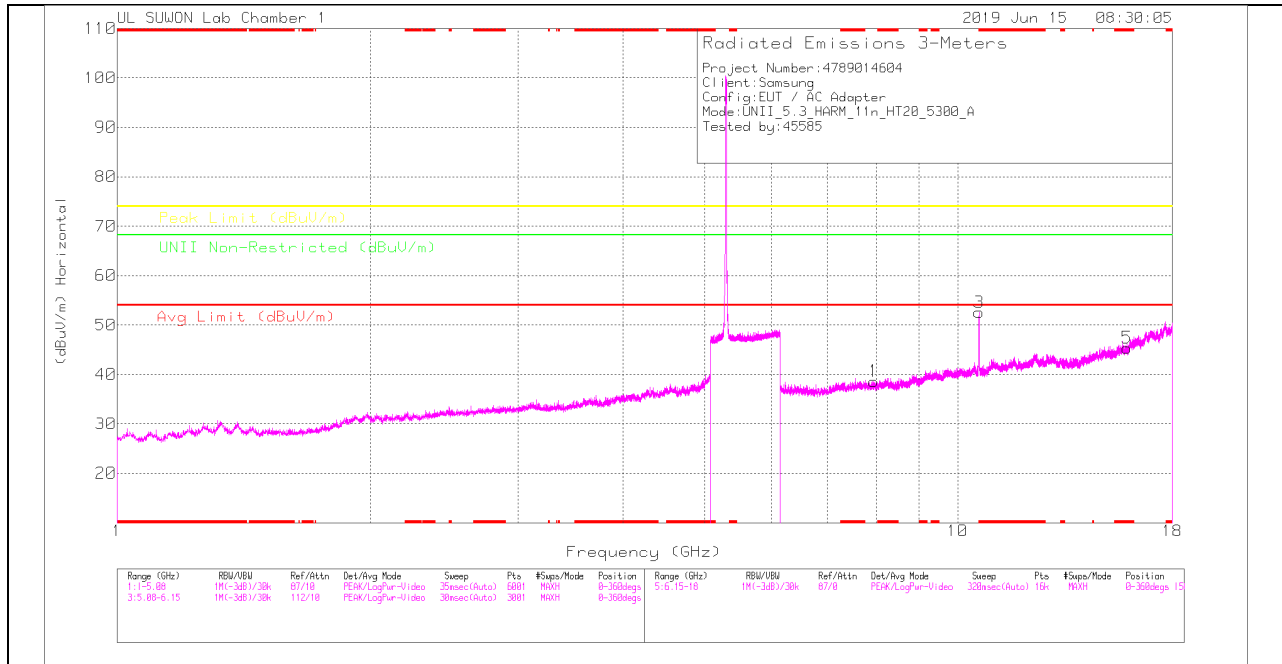
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.51518	48.31	PK-U	37.7	-22.5	0	63.51	-	-	-	-	68.2	-4.69	256	174	H
10.52166	49.21	PK-U	37.7	-22.7	0	64.21	-	-	-	-	68.2	-3.99	153	184	V

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

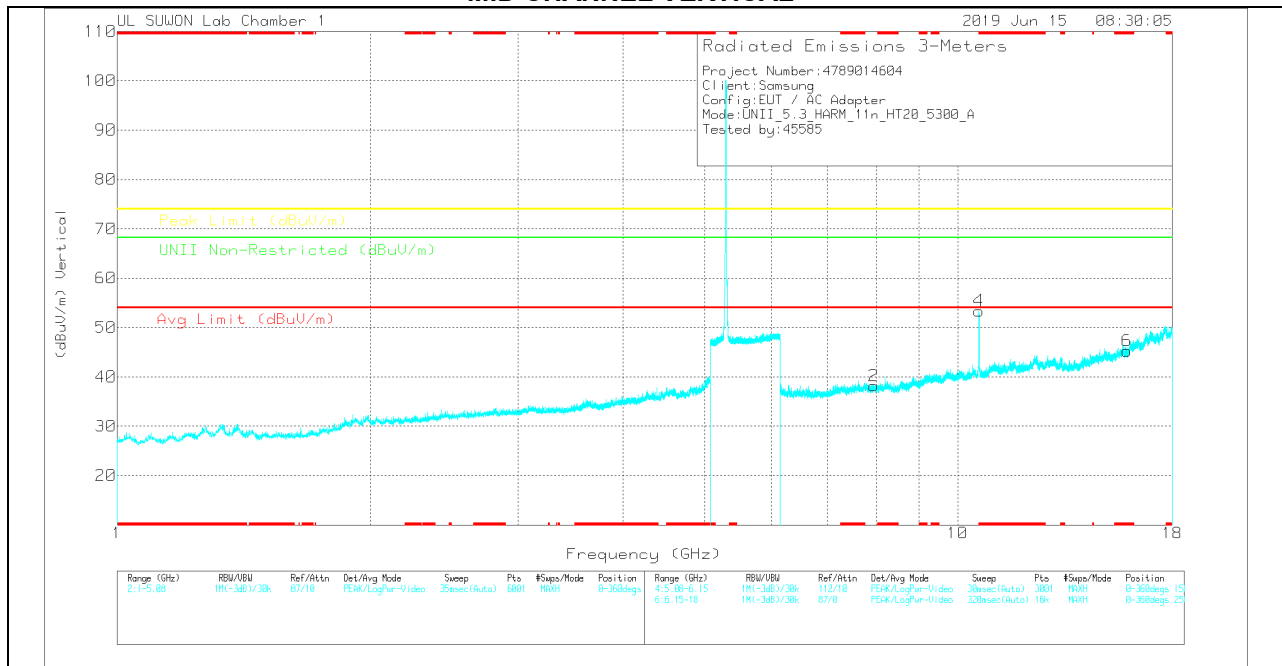
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	7.94813	28.83	PK	36	-26.2	0	38.63	-	-	-	-	68.2	-29.57	0-360	150	H
3	* 10.60236	37.05	PK	37.8	-22.3	0	52.55	-	-	74	-21.45	-	-	0-360	250	H
5	* 15.9012	25.86	PK	40.6	-21.1	0	45.36	-	-	74	-28.64	-	-	0-360	150	H
2	7.95035	28.38	PK	36	-26.2	0	38.18	-	-	-	-	68.2	-30.02	0-360	250	V
4	10.5994	37.88	PK	37.8	-22.3	0	53.38	-	-	-	-	68.2	-14.82	0-360	150	V
6	* 15.90046	25.77	PK	40.6	-21.1	0	45.27	-	-	74	-28.73	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

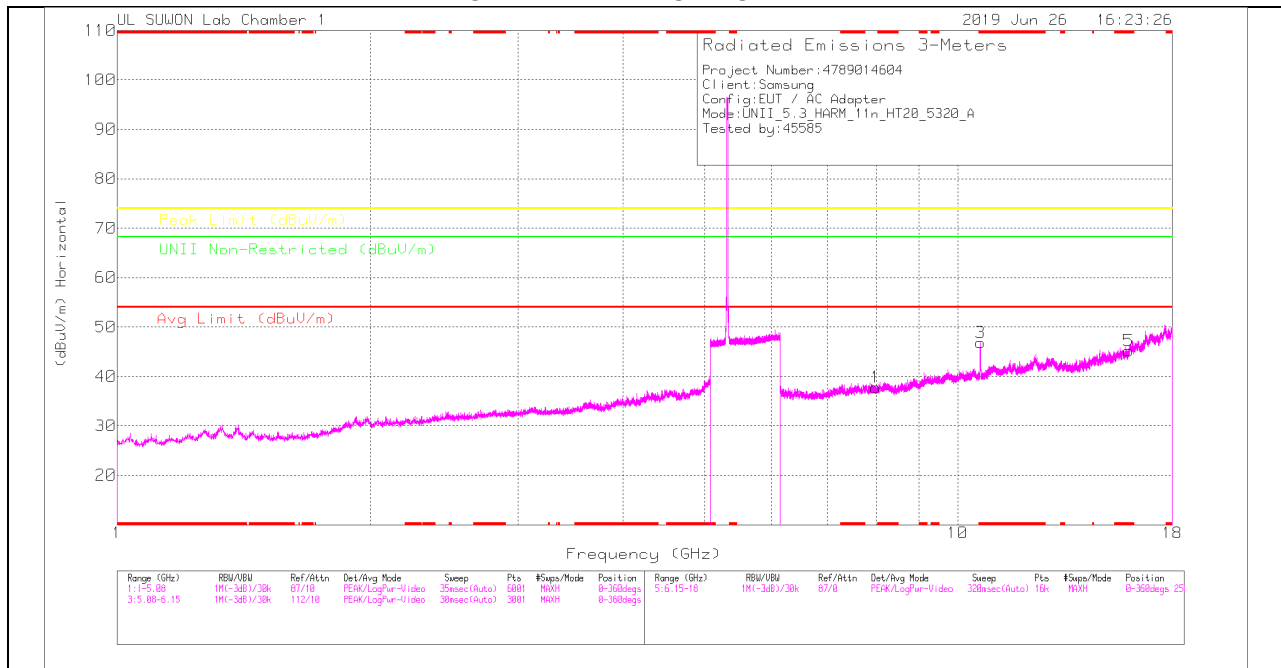
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.59867	46.47	PK-U	37.8	-22.3	0	61.97	-	-	-	-	68.2	-6.23	264	180	H
10.59947	33.52	ADR	37.8	-22.3	0	49.02	54	-4.98	-	-	-	-	264	180	H
10.59935	45.76	PK-U	37.8	-22.3	0	61.26	-	-	-	-	68.2	-6.94	153	187	V
10.59961	32.7	ADR	37.8	-22.3	0	48.2	54	-5.8	-	-	-	-	153	187	V

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

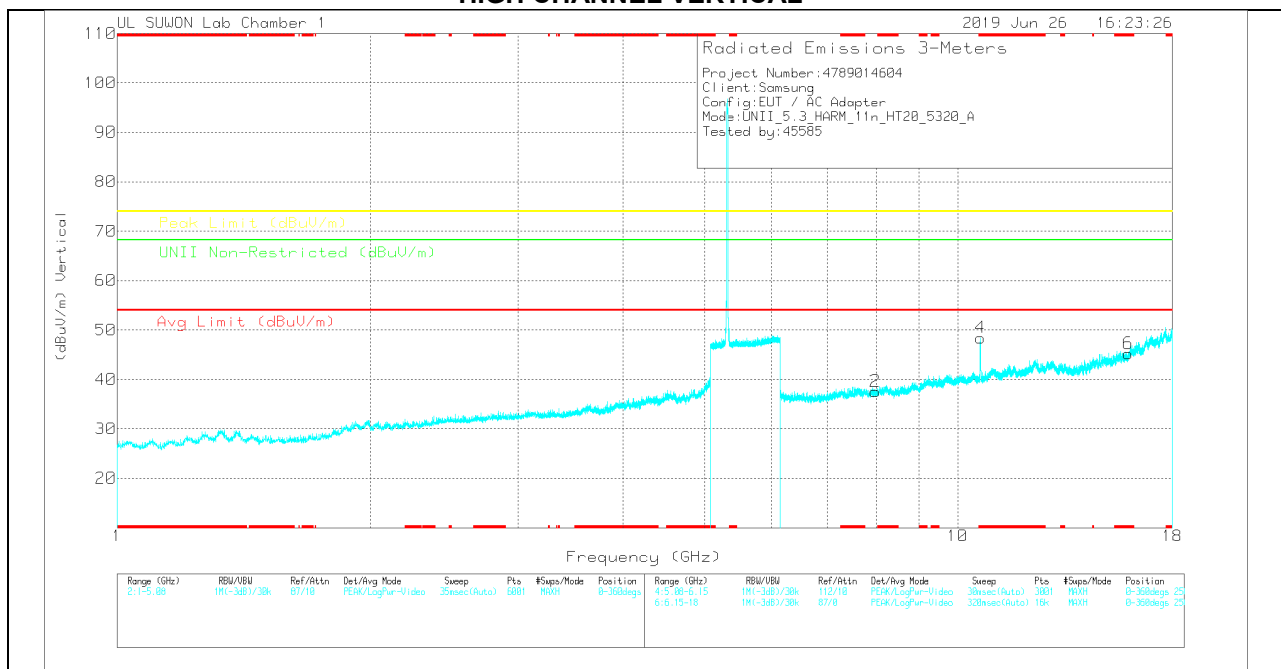
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.98516	28.17	PK	36	-26.4	0	37.77	-	-	-	-	68.2	-30.43	0-360	150	H
3	* 10.64457	31.12	PK	37.8	-22.1	0	46.82	-	-	74	-27.18	-	-	0-360	150	H
5	* 15.96786	25.29	PK	40.7	-20.8	0	45.19	-	-	74	-28.81	-	-	0-360	150	H
2	7.98071	27.9	PK	36	-26.3	0	37.6	-	-	-	-	68.2	-30.6	0-360	150	V
4	* 10.64235	32.74	PK	37.8	-22.1	0	48.44	-	-	74	-25.56	-	-	0-360	250	V
6	* 15.95823	25.44	PK	40.7	-20.9	0	45.24	-	-	74	-28.76	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.59905	46.8	PK-U	37.8	-22.3	0	62.3	-	-	-	-	68.2	-5.9	154	188	V
10.59905	33.81	ADR	37.8	-22.3	0	49.31	54	-4.69	-	-	-	-	154	188	V
10.59887	46.47	PK-U	37.8	-22.3	0	61.97	-	-	-	-	68.2	-6.23	264	180	H
10.59947	33.52	ADR	37.8	-22.3	0	49.02	54	-4.98	-	-	-	-	264	180	H

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

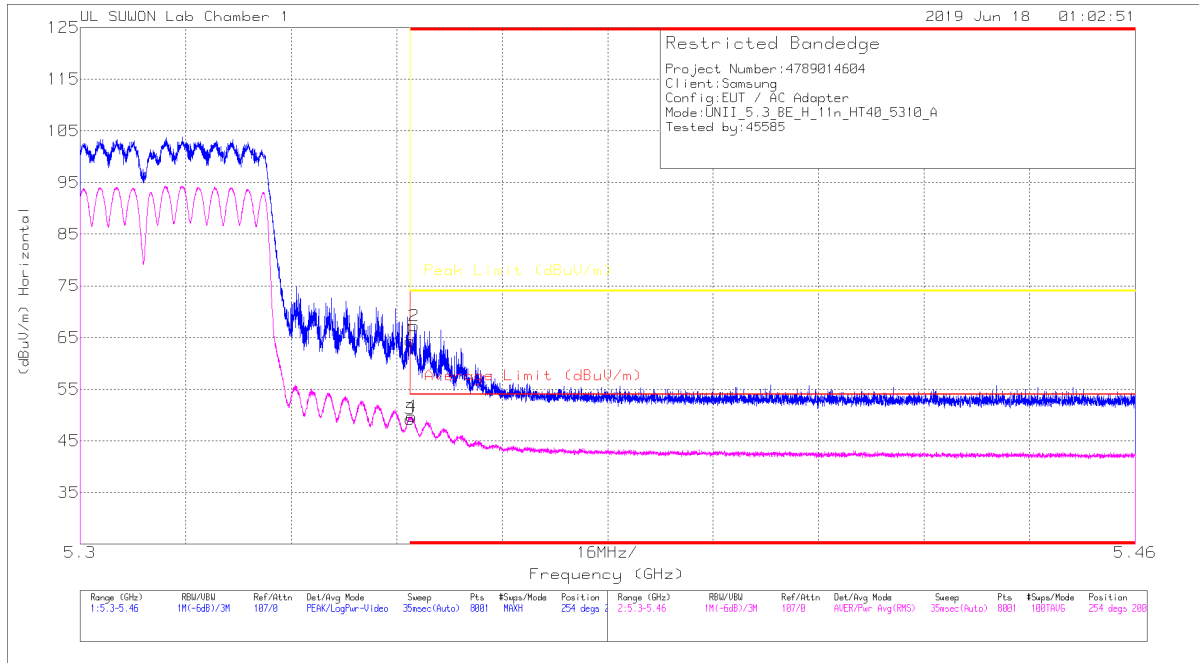
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.3.TX ABOVE 1GHz 802.11n HT40 2Tx CDD MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

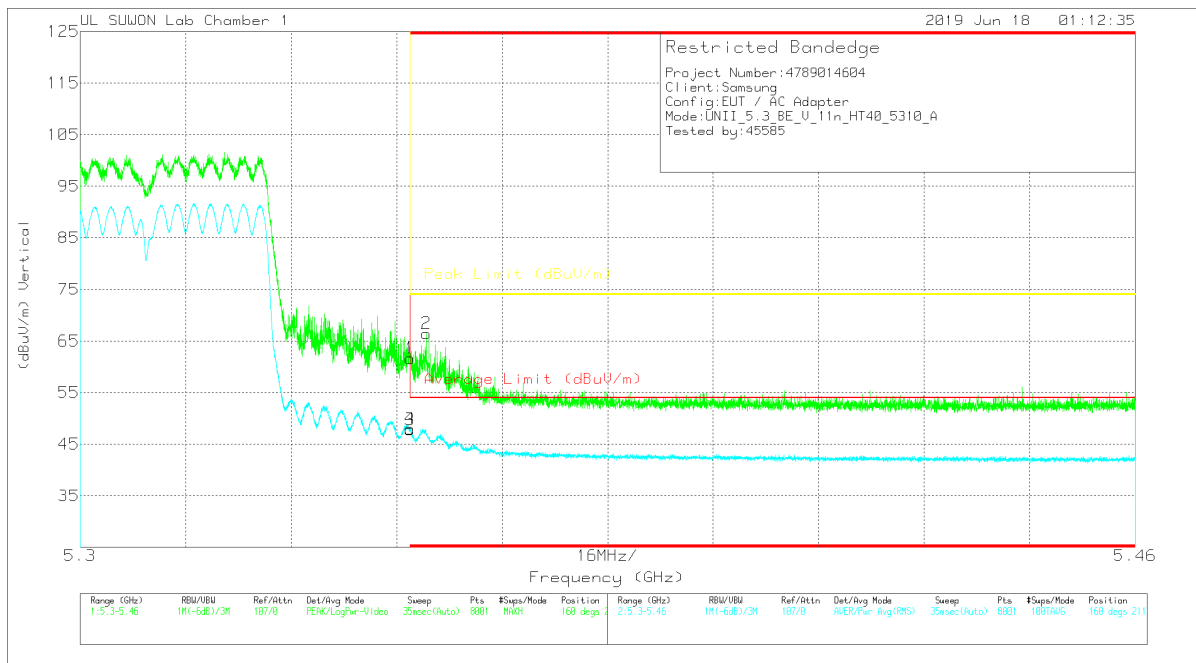
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.35002	51.32	Pk	34.7	-21.6	0	64.42	-	-	74	-9.58	254	200	H
2	* 5.35066	54.17	Pk	34.7	-21.6	0	67.27	-	-	74	-6.73	254	200	H
3	* 5.35002	36.23	RMS	34.7	-21.7	0	49.23	54	-4.77	-	-	254	200	H
4	* 5.35028	36.73	RMS	34.7	-21.7	0	49.73	54	-4.27	-	-	254	200	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[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	* 5.35002	48.53	Pk	34.7	-21.6	0	61.63	-	-	74	-12.37	160	211	V
2	* 5.35248	53.37	Pk	34.7	-21.6	0	66.47	-	-	74	-7.53	160	211	V
3	* 5.35002	34.82	RMS	34.7	-21.7	0	47.82	54	-6.18	-	-	160	211	V
4	* 5.35004	35.01	RMS	34.7	-21.7	0	48.01	54	-5.99	-	-	160	211	V

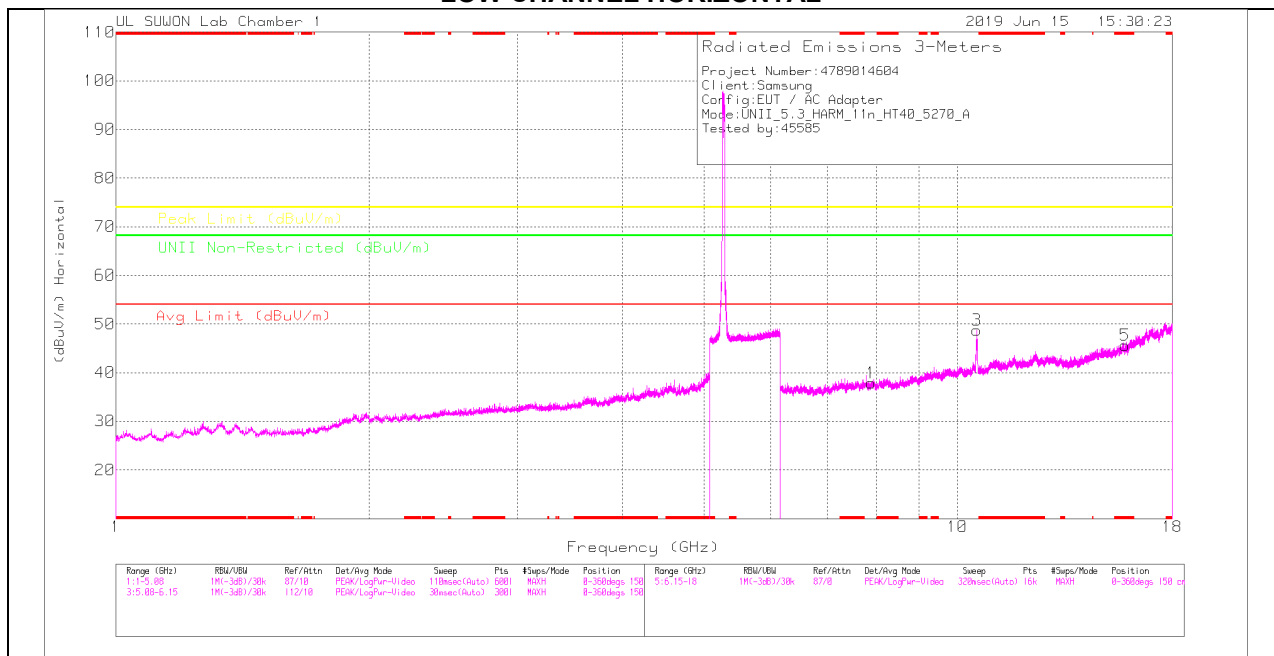
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

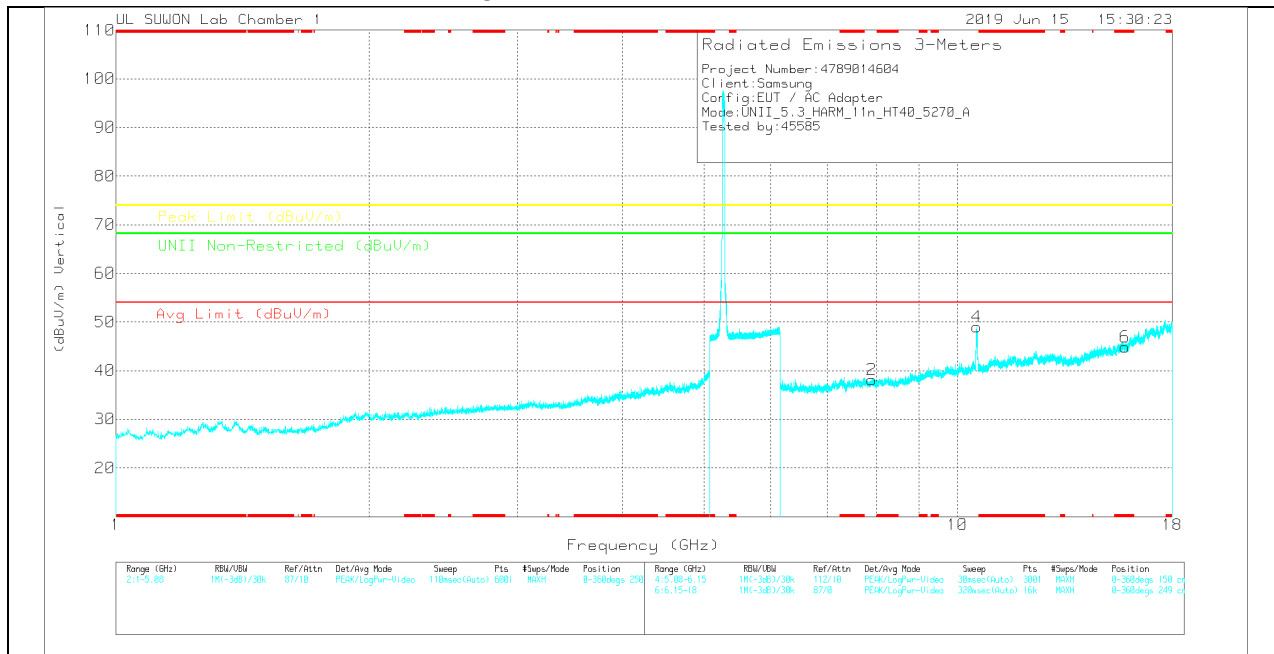
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	7.89999	28.31	PK	36	-26.4	0	37.91	-	-	-	-	68.2	-30.29	0-360	150	H
3	10.54015	33.77	PK	37.8	-22.8	0	48.77	-	-	-	-	68.2	-19.43	0-360	150	H
5	* 15.81678	26.24	PK	40.5	-21.1	0	45.64	-	-	74	-28.36	-	-	0-360	150	H
2	7.90665	28.53	PK	36	-26.4	0	38.13	-	-	-	-	68.2	-30.07	0-360	150	V
4	10.54682	34	PK	37.8	-22.8	0	49	-	-	-	-	68.2	-19.2	0-360	249	V
6	* 15.80937	25.43	PK	40.5	-21.1	0	44.83	-	-	74	-29.17	-	-	0-360	249	V

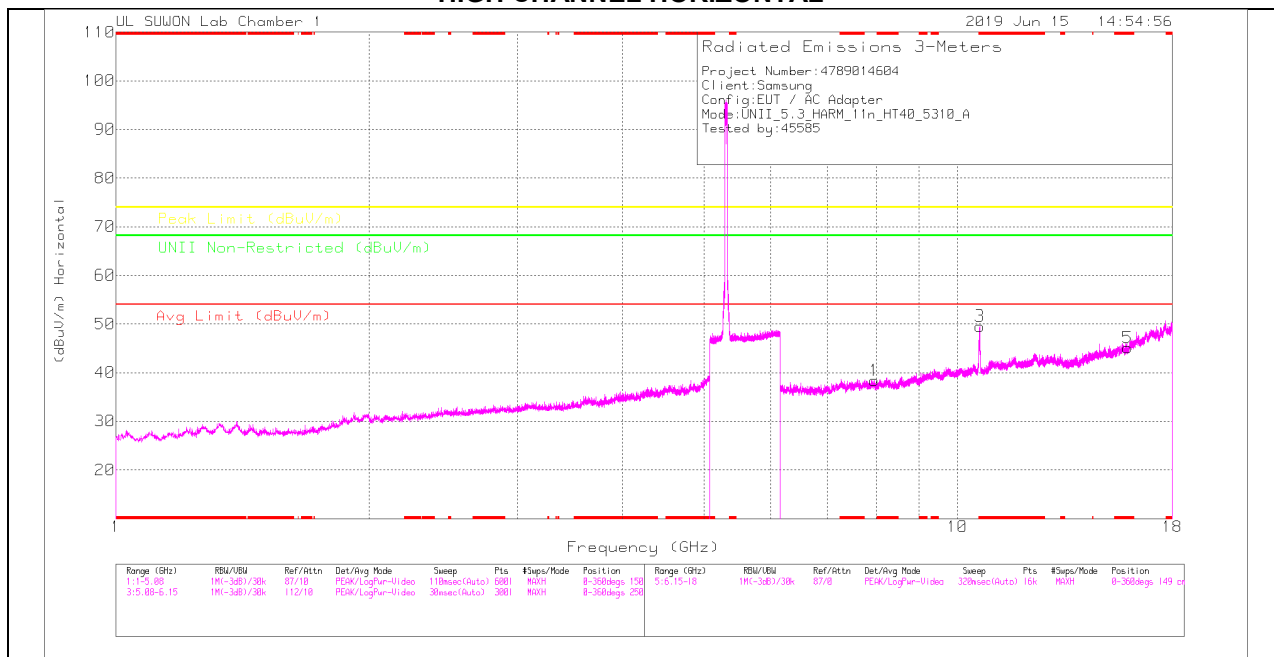
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

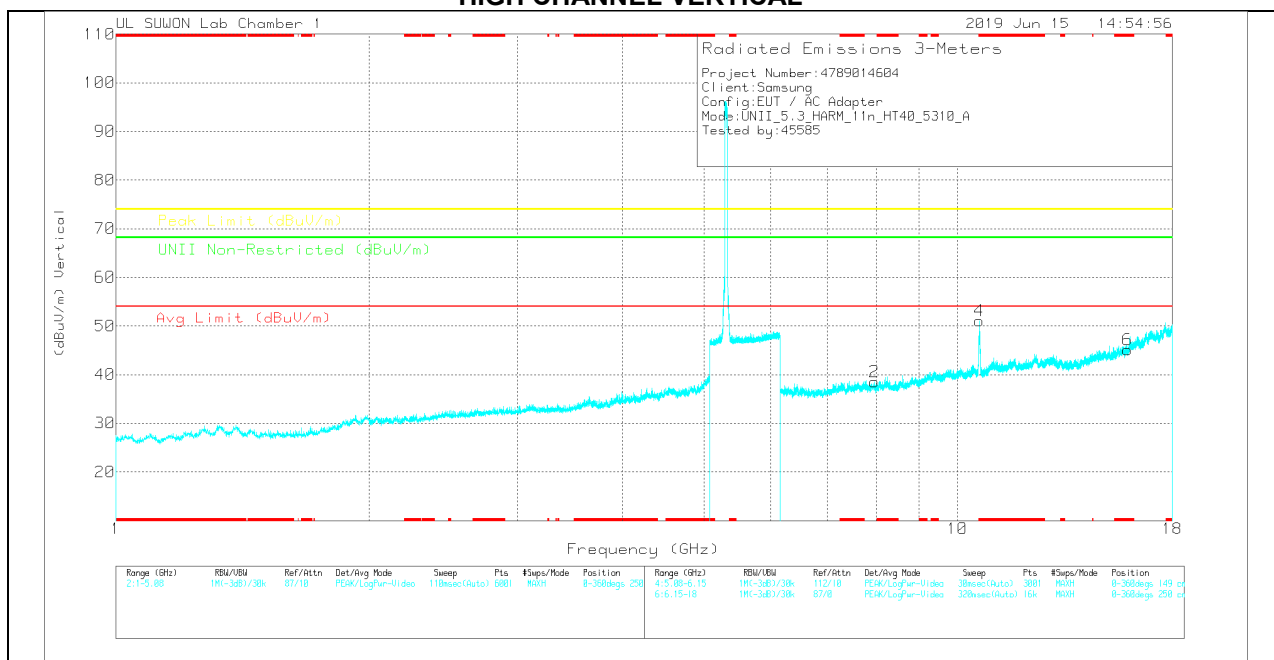
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.54435	46.61	PK-U	37.8	-22.8	0	61.61	-	-	-	-	68.2	-6.59	254	174	H
10.54451	45.91	PK-U	37.8	-22.8	0	60.91	-	-	-	-	68.2	-7.29	151	189	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unli Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.9622	28.64	PK	36	-26.2	0	38.44	-	-	-	-	68.2	-29.76	0-360	149	H
3	* 10.62754	33.97	PK	37.8	-22.2	0	49.57	-	-	74	-24.43	-	-	0-360	149	H
5	* 15.93453	25.51	PK	40.7	-21.1	0	45.11	-	-	74	-28.89	-	-	0-360	250	H
2	7.96072	28.68	PK	36	-26.2	0	38.48	-	-	-	-	68.2	-29.72	0-360	150	V
4	* 10.61939	35.41	PK	37.8	-22.2	0	51.01	-	-	74	-22.99	-	-	0-360	250	V
6	* 15.92712	25.66	PK	40.6	-21.1	0	45.16	-	-	74	-28.64	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unli Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.61978	46.29	PK-U	37.8	-22.2	0	61.89	-	-	74	-12.11	-	-	262	169	H
* 10.6197	33.42	ADR	37.8	-22.2	0	49.02	54	-4.98	-	-	-	-	262	169	H
* 10.6167	45.61	PK-U	37.8	-22.2	0	61.21	-	-	74	-12.79	-	-	161	188	V
* 10.61954	32.92	ADR	37.8	-22.2	0	48.52	54	-5.48	-	-	-	-	161	188	V

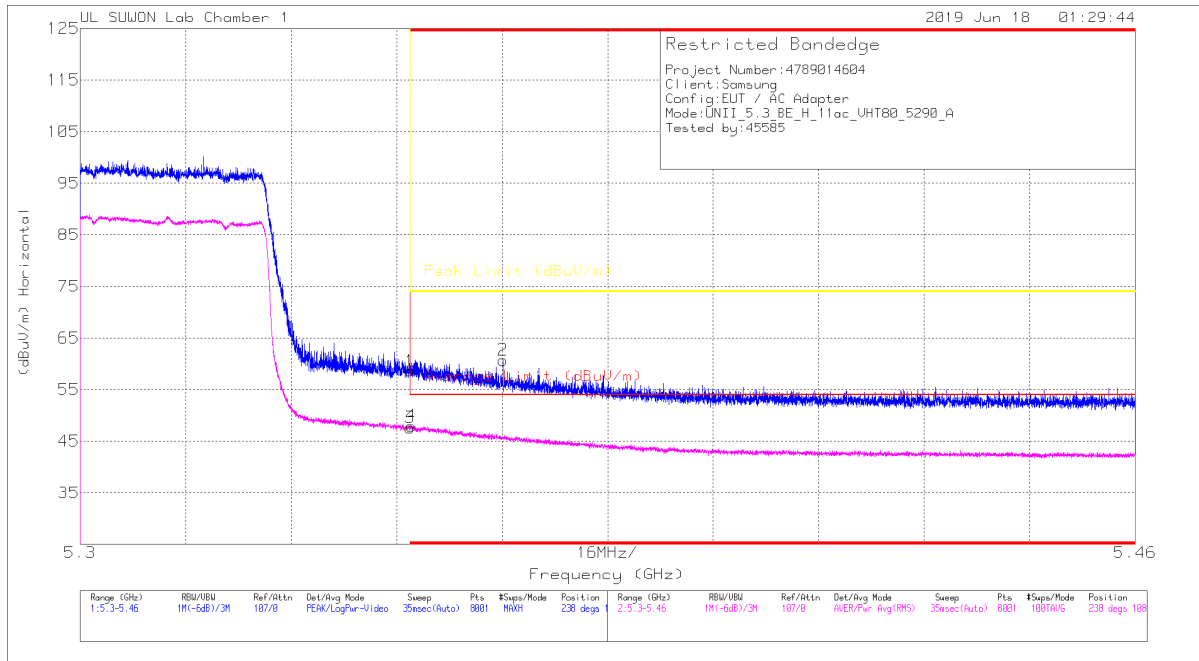
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.4. TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.3GHz BAND RESTRICTED BANDEDGE (High CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

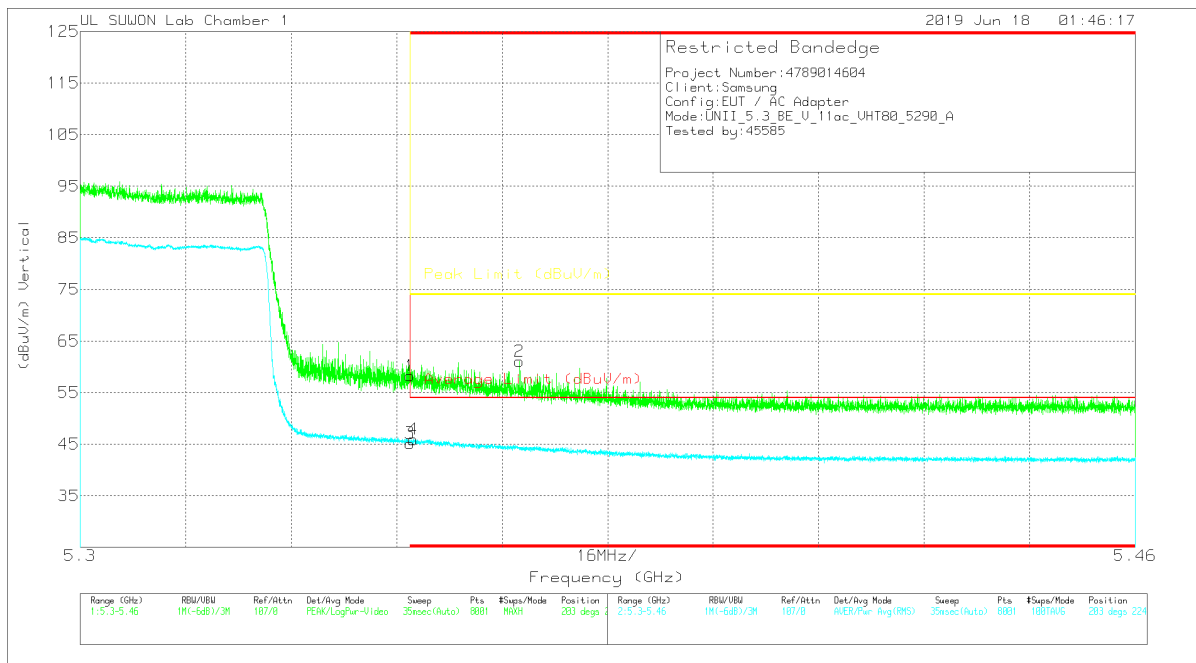
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	45.52	PK	34.7	-21.6	0	58.62	-	-	74	-15.38	238	108	H
2	* 5.36414	47.63	PK	34.7	-21.6	0	60.73	-	-	74	-13.27	238	108	H
3	* 5.35002	34.64	RMS	34.7	-21.7	0	47.64	54	-6.36	-	-	238	108	H
4	* 5.35024	34.98	RMS	34.7	-21.7	0	47.98	54	-6.02	-	-	238	108	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[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	* 5.35002	45.15	Pk	34.7	-21.6	0	58.25	-	-	74	-15.75	203	224	V
2	* 5.3666	47.96	Pk	34.7	-21.6	0	61.06	-	-	74	-12.94	203	224	V
3	* 5.35002	32.17	RMS	34.7	-21.7	0	45.17	54	-8.83	-	-	203	224	V
4	* 5.35052	32.93	RMS	34.7	-21.7	0	45.93	54	-8.07	-	-	203	224	V

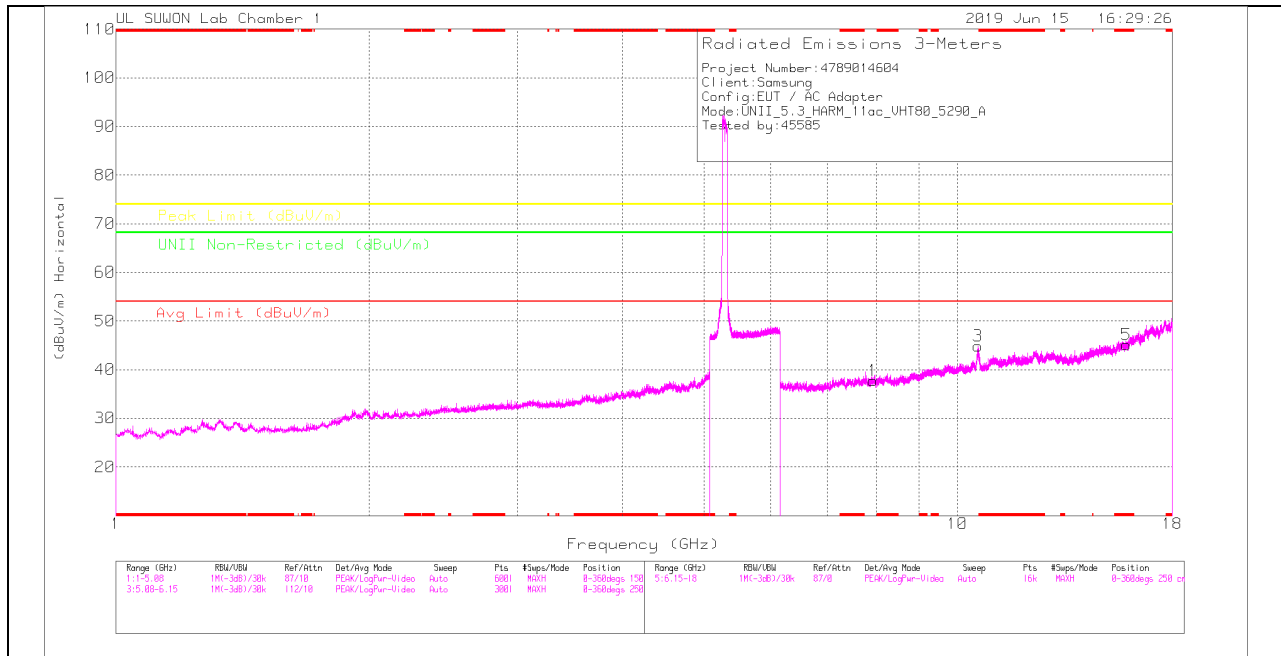
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

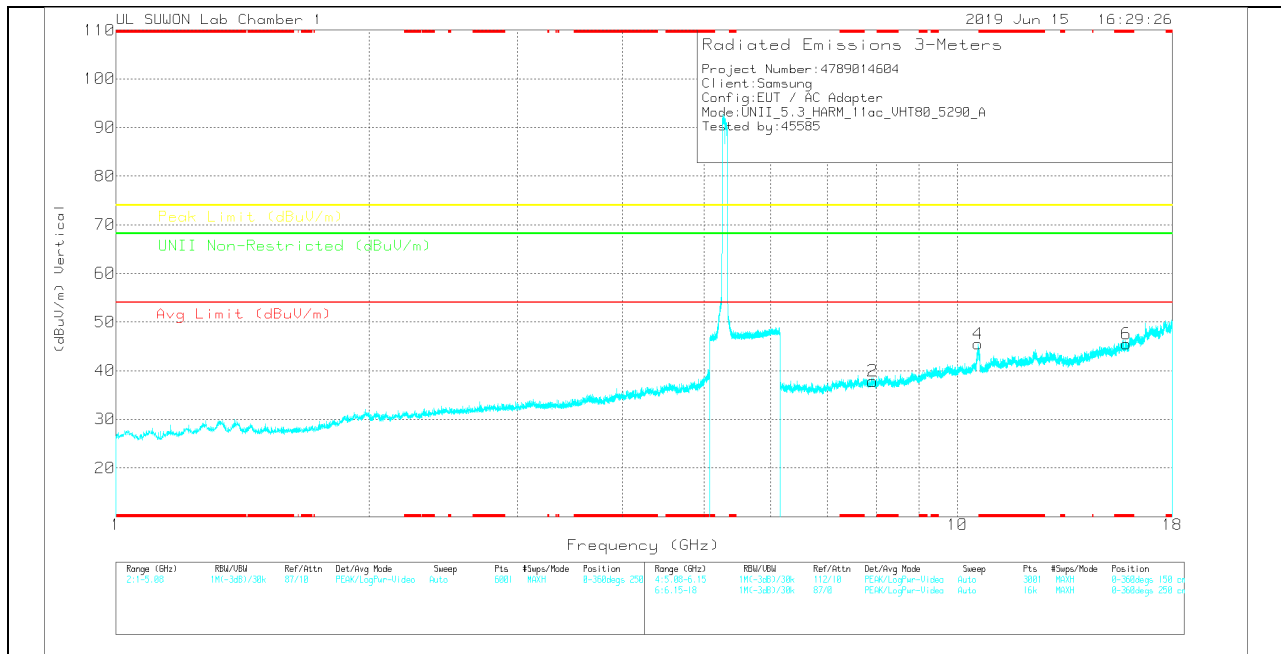
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HRP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.93257	28.1	PK	36	-26.3	0	37.8	-	-	-	-	68.2	-30.4	0-360	250	H
3	10.58459	29.53	PK	37.8	-22.5	0	44.83	-	-	-	-	68.2	-23.37	0-360	150	H
5	* 15.87677	25.56	PK	40.6	-21	0	45.16	-	-	74	-28.84	-	-	0-360	250	H
2	7.93109	28.11	PK	36	-26.3	0	37.81	-	-	-	-	68.2	-30.39	0-360	250	V
4	10.57792	30.32	PK	37.8	-22.6	0	45.52	-	-	-	-	68.2	-22.68	0-360	250	V
6	* 15.87306	26.02	PK	40.6	-21.1	0	45.52	-	-	74	-28.48	-	-	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HRP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.58093	42.23	PK-U	37.8	-22.6	0	57.43	-	-	-	-	68.2	-10.77	255	165	H
10.58098	29.41	ADR	37.8	-22.6	0	44.61	54	-9.39	-	-	-	-	255	165	H
10.57845	41.33	PK-U	37.8	-22.6	0	56.53	-	-	-	-	68.2	-11.67	154	186	V
10.57571	29.19	ADR	37.8	-22.7	0	44.29	54	-9.71	-	-	-	-	154	186	V

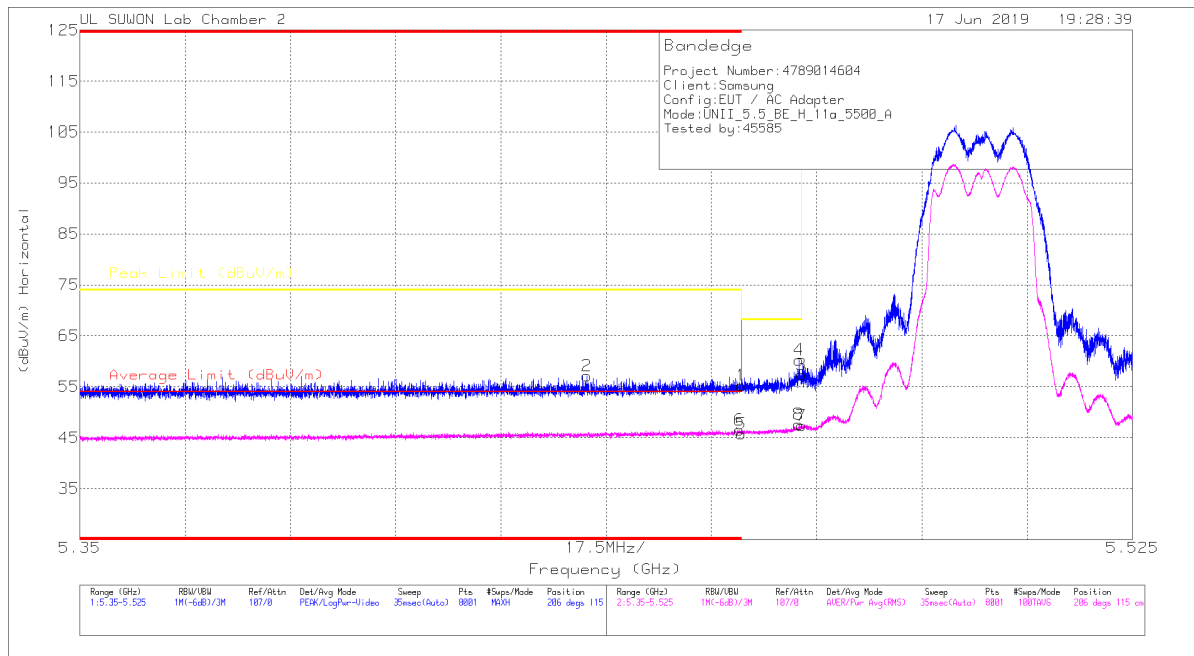
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

11.3. 5.5-5.6 GHz

11.3.1. TX ABOVE 1 GHz 802.11a 2Tx CDD MODE IN THE 5.5 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

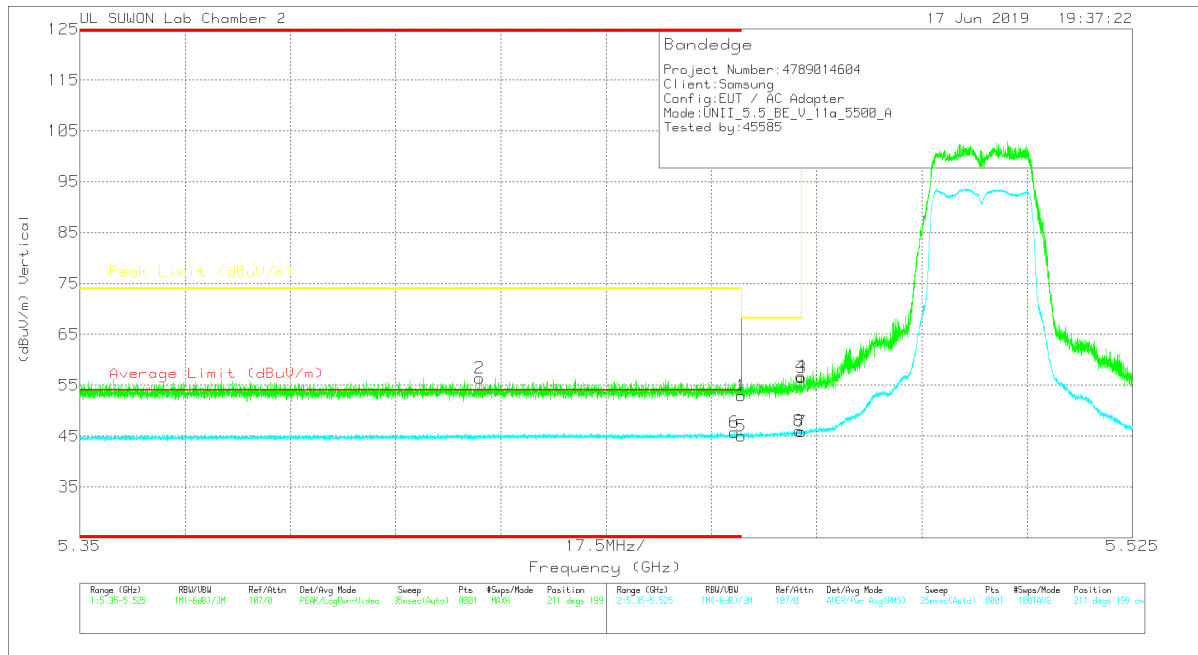
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00108724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	38.92	Pk	34.6	-18.2	0	55.32	-	-	74	-18.68	206	115	H
2	* 5.434	40.83	Pk	34.5	-18.2	0	57.13	-	-	74	-16.87	206	115	H
3	5.47	40.83	Pk	34.6	-18.1	0	57.33	-	-	68.2	-10.87	206	115	H
4	5.47	43.78	Pk	34.6	-18.1	0	60.28	-	-	68.2	-7.92	206	115	H
5	* 5.46	28.05	RMS	34.6	-16.9	0	45.75	54	-8.25	-	-	206	115	H
6	* 5.46	28.75	RMS	34.6	-16.9	0	46.45	54	-7.55	-	-	206	115	H
7	5.47	29.64	RMS	34.6	-16.9	0	47.34	-	-	-	-	206	115	H
8	5.47	29.86	RMS	34.6	-16.9	0	47.56	-	-	-	-	206	115	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	36.48	Pk	34.6	-18.2	0	52.88	-	-	74	-21.12	211	199	V
2	* 5.416	40	Pk	34.5	-18.1	0	56.4	-	-	74	-17.6	211	199	V
3	5.47	40.02	Pk	34.6	-18.1	0	56.52	-	-	68.2	-11.68	211	199	V
4	5.47	40.28	Pk	34.6	-18.1	0	56.78	-	-	68.2	-11.42	211	199	V
5	* 5.46	27.27	RMS	34.6	-16.9	0	44.97	54	-9.03	-	-	211	199	V
6	* 5.459	28.08	RMS	34.6	-16.9	0	45.78	54	-8.22	-	-	211	199	V
7	5.47	28.17	RMS	34.6	-16.9	0	45.87	-	-	-	-	211	199	V
8	5.47	28.31	RMS	34.6	-16.9	0	46.01	-	-	-	-	211	199	V

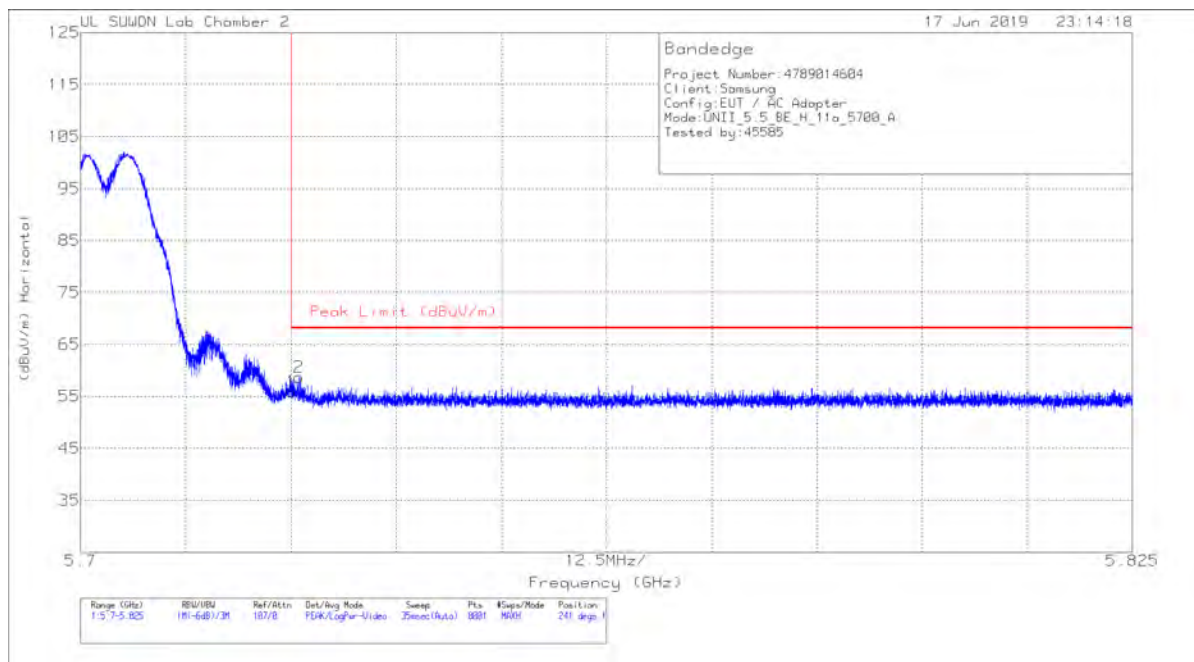
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

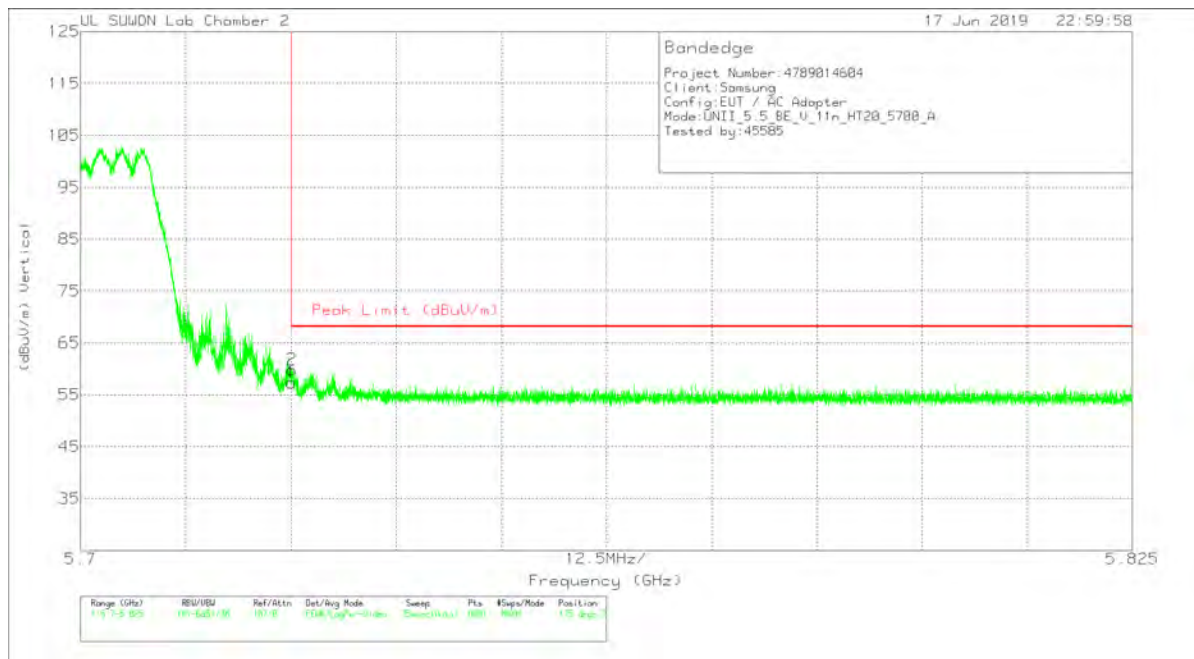


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.85	Pk	34.7	-17.6	0	55.95	68.2	-12.25	241	100	H
2	5.726	41.52	Pk	34.7	-17.5	0	58.72	68.2	-9.48	241	100	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



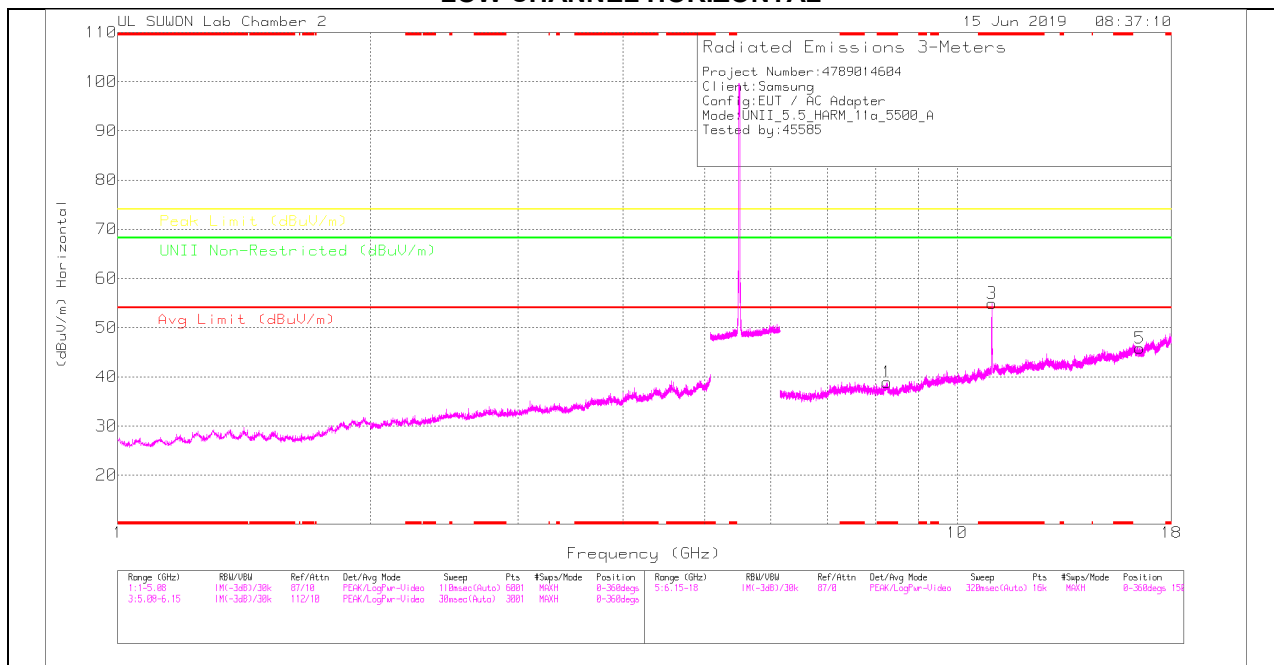
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.24	Pk	34.7	-17.6	0	57.34	68.2	-10.86	175	204	V
2	5.725	42.75	Pk	34.7	-17.6	0	59.85	68.2	-8.35	175	204	V

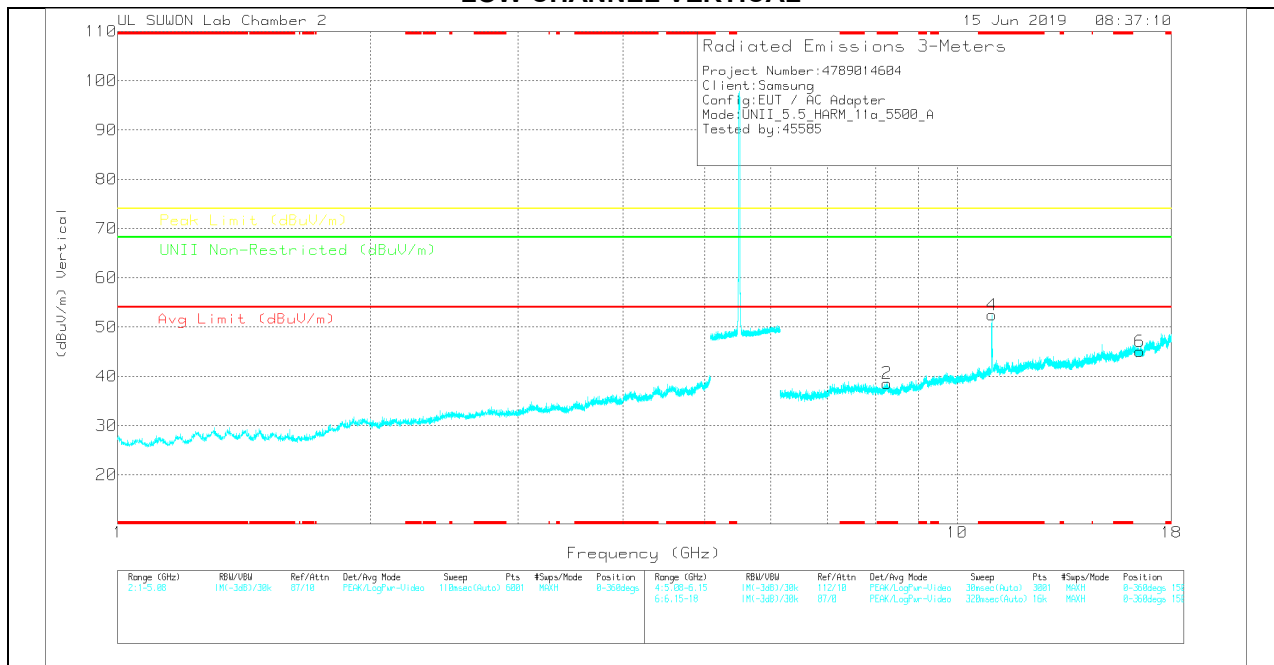
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 8.25	25.97	PK	36	-23.1	0	38.87	-	-	74	-35.13	-	-	0-360	250	H
3	* 10.999	37.42	PK	38.1	-20.6	0	54.92	-	-	74	-19.08	-	-	0-360	150	H
5	16.498	25.23	PK	40.5	-19.9	0	45.83	-	-	-	-	68.2	-22.37	0-360	150	H
2	* 8.248	25.68	PK	36	-23.1	0	38.58	-	-	74	-35.42	-	-	0-360	150	V
4	* 10.999	34.92	PK	38.1	-20.6	0	52.42	-	-	74	-21.58	-	-	0-360	150	V
6	16.503	24.34	PK	40.5	-19.8	0	45.04	-	-	-	-	68.2	-23.16	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

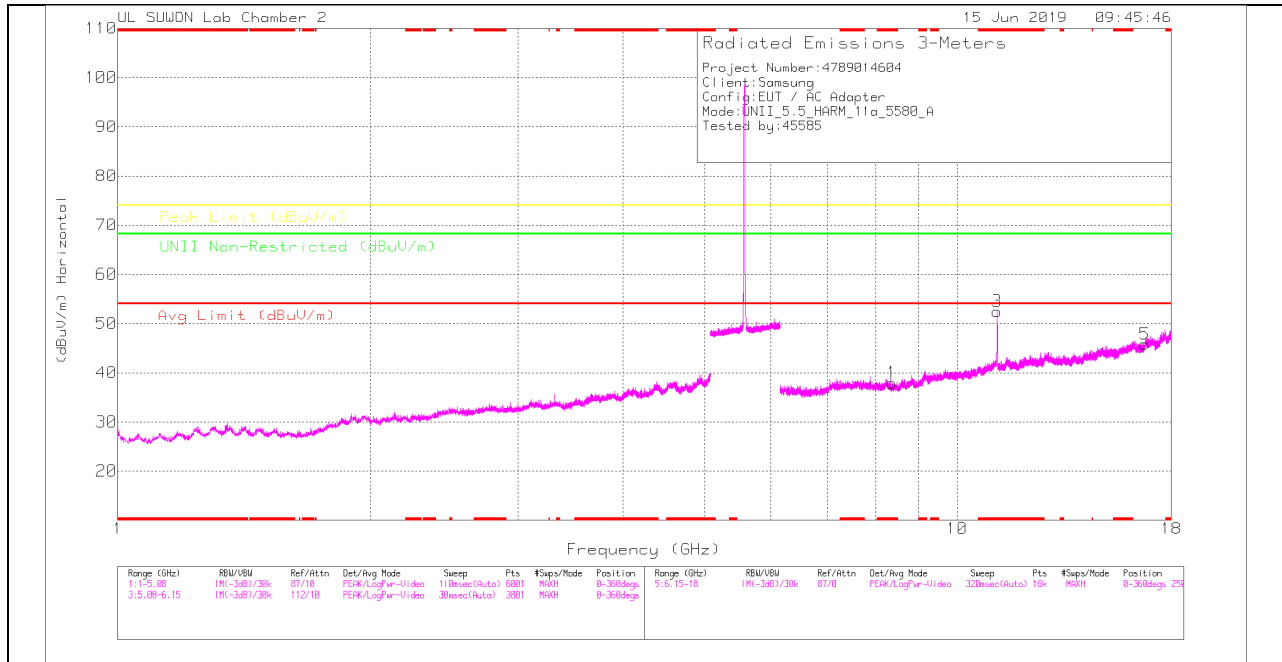
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 10.998	46.18	PK-U	38.1	-20.6	0	63.68	-	-	74	-10.32	-	-	251	139	H
* 10.999	32.92	ADR	38.1	-20.6	0	50.42	54	-3.58	-	-	-	-	251	139	H
* 10.998	45.25	PK-U	38.1	-20.5	0	62.85	-	-	74	-11.15	-	-	146	185	V
* 10.999	31.57	ADR	38.1	-20.6	0	49.07	54	-4.93	-	-	-	-	146	185	V

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

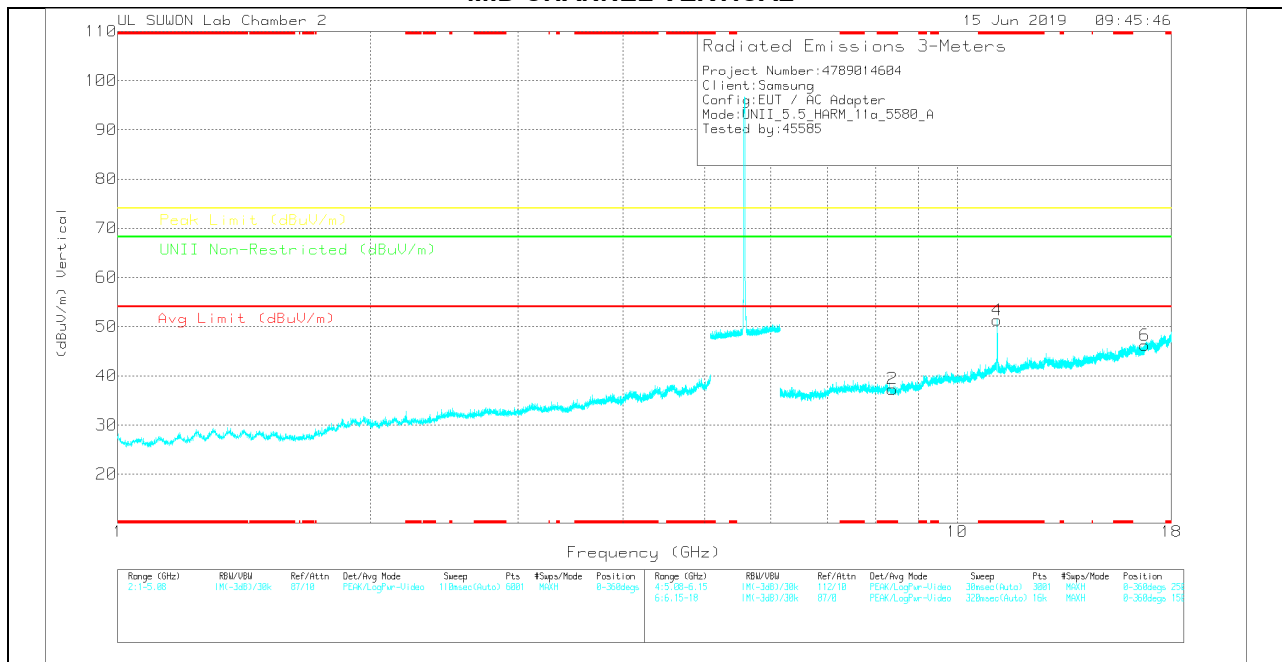
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.363	25.53	PK	36	-23.6	0	37.93	-	-	74	-36.07	-	-	0-360	250	H
3	* 11.159	33.89	PK	38.2	-19.6	0	52.49	-	-	74	-21.51	-	-	0-360	150	H
5	16.743	24.01	PK	40.9	-19.1	0	45.81	-	-	-	-	68.2	-22.39	0-360	150	H
2	* 8.372	25.12	PK	36	-23.8	0	37.32	-	-	74	-36.68	-	-	0-360	150	V
4	* 11.159	32.72	PK	38.2	-19.6	0	51.32	-	-	74	-22.68	-	-	0-360	150	V
6	16.738	24.4	PK	40.9	-19.1	0	46.2	-	-	-	-	68.2	-22	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

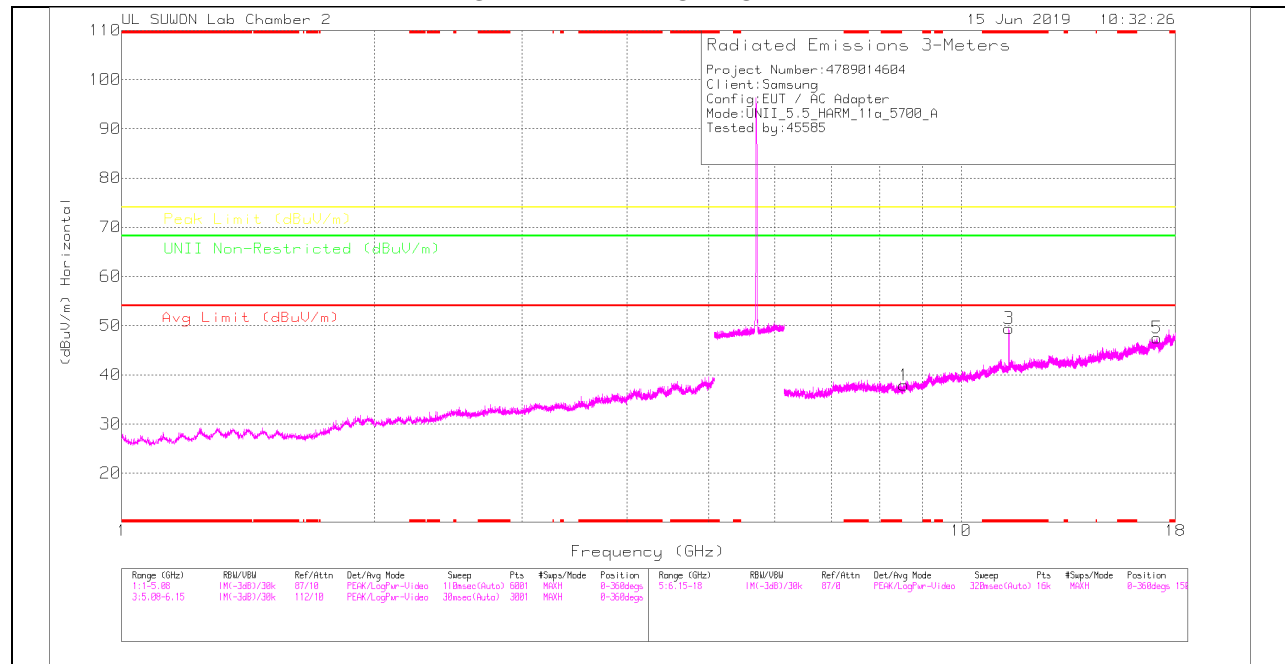
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.159	45.58	PK-U	38.2	-19.6	0	64.18	-	-	74	-9.82	-	-	249	152	H
* 11.159	32.35	ADR	38.2	-19.6	0	50.95	54	-3.05	-	-	-	-	249	152	H
* 11.159	45.1	PK-U	38.2	-19.6	0	63.7	-	-	74	-10.3	-	-	146	173	V
* 11.159	32.01	ADR	38.2	-19.6	0	50.61	54	-3.39	-	-	-	-	146	173	V

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

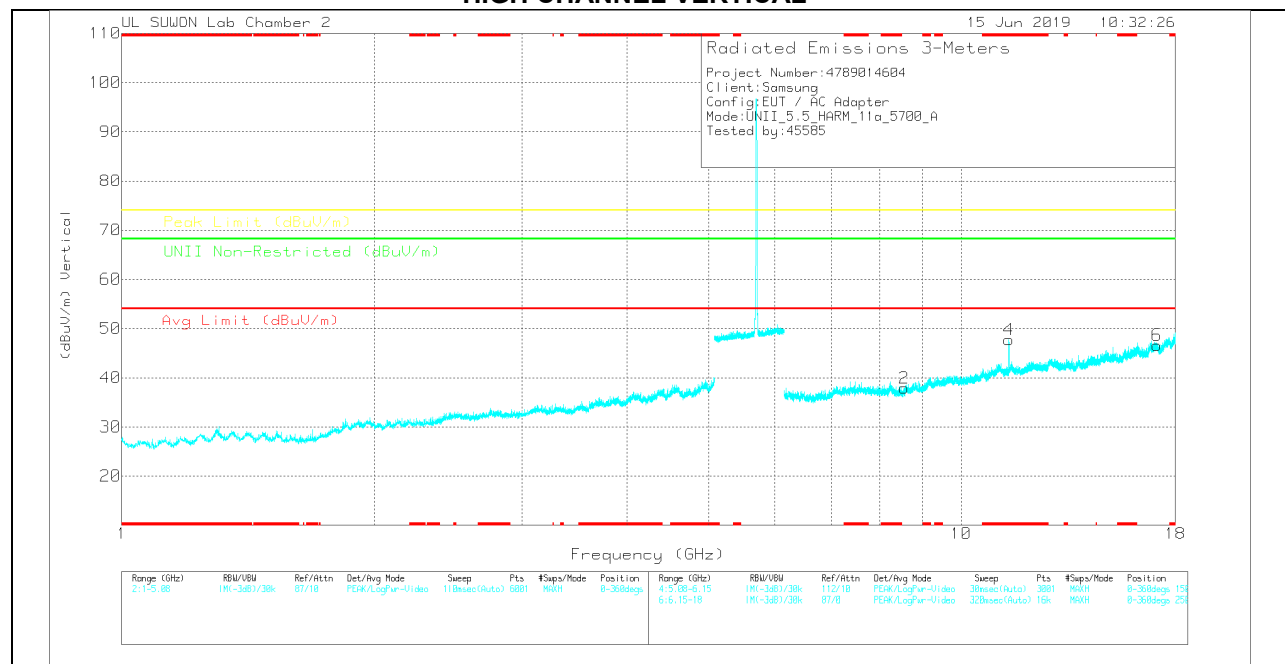
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.548	24.48	PK	36.1	-22.7	0	37.88	-	-	-	-	68.2	-30.32	0-360	150	H
3	* 11.398	31.34	PK	38.3	-20.2	0	49.44	-	-	74	-24.56	-	-	0-360	150	H
5	17.099	24.91	PK	41.3	-18.7	0	47.51	-	-	-	-	68.2	-20.69	0-360	250	H
2	8.549	24.49	PK	36.1	-22.7	0	37.89	-	-	-	-	68.2	-30.31	0-360	250	V
4	* 11.398	29.59	PK	38.3	-20.2	0	47.69	-	-	74	-26.31	-	-	0-360	150	V
6	17.102	24.02	PK	41.3	-18.7	0	46.62	-	-	-	-	68.2	-21.58	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.4	43.49	PK-U	38.3	-20.2	0	61.59	-	-	74	-12.41	-	-	251	143	H
* 11.399	31.07	ADR	38.3	-20.2	0	49.17	54	-4.83	-	-	-	-	251	143	H
* 11.399	42.16	PK-U	38.3	-20.2	0	60.26	-	-	74	-13.74	-	-	140	183	V
* 11.399	29.58	ADR	38.3	-20.2	0	47.68	54	-6.32	-	-	-	-	140	183	V

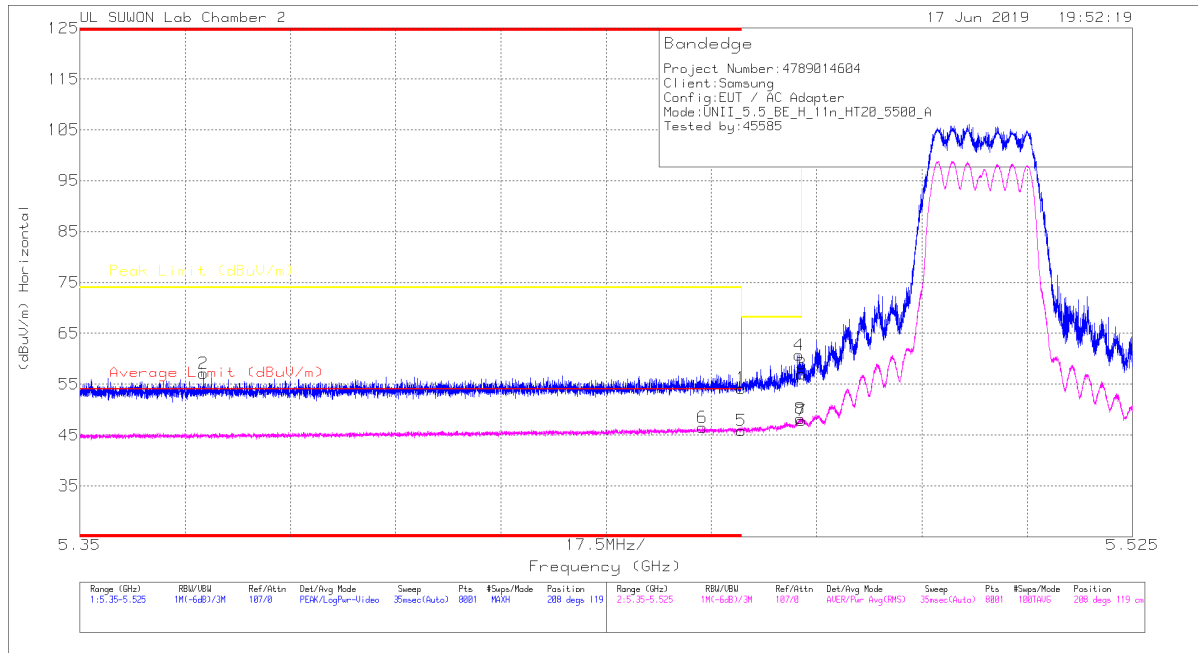
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.3.2.TX ABOVE 1GHz 802.11n HT20 2Tx CDD MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

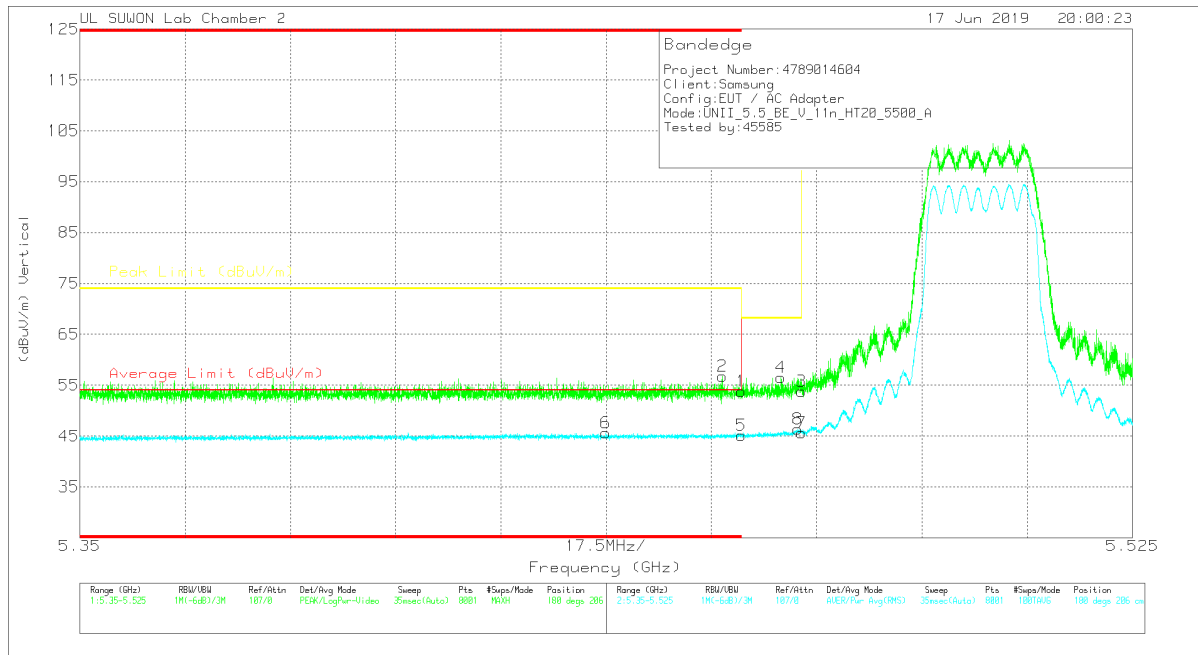
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	37.82	Pk	34.6	-18.2	0	54.22	-	-	74	-19.78	208	119	H
2	* 5.371	40.7	Pk	34.5	-18.1	0	57.1	-	-	74	-16.9	208	119	H
3	5.47	40.49	Pk	34.6	-18.1	0	56.99	-	-	68.2	-11.21	208	119	H
4	5.47	44.17	Pk	34.6	-18.1	0	60.67	-	-	68.2	-7.53	208	119	H
5	* 5.46	28.22	RMS	34.6	-16.9	0	45.92	54	-8.08	-	-	208	119	H
6	* 5.454	28.79	RMS	34.6	-16.9	0	46.49	54	-7.51	-	-	208	119	H
7	5.47	30.17	RMS	34.6	-16.9	0	47.87	-	-	-	-	208	119	H
8	5.47	30.58	RMS	34.6	-16.9	0	48.28	-	-	-	-	208	119	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	37.36	Pk	34.6	-18.2	0	53.76	-	-	74	-20.24	180	206	V
2	* 5.457	40.38	Pk	34.6	-18.2	0	56.78	-	-	74	-17.22	180	206	V
3	5.47	37.31	Pk	34.6	-18.1	0	53.81	-	-	68.2	-14.39	180	206	V
4	5.467	40.11	Pk	34.6	-18.2	0	56.51	-	-	68.2	-11.69	180	206	V
5	* 5.46	27.48	RMS	34.6	-16.9	0	45.18	54	-8.82	-	-	180	206	V
6	* 5.437	28.16	RMS	34.5	-17	0	45.66	54	-8.34	-	-	180	206	V
7	5.47	27.94	RMS	34.6	-16.9	0	45.64	-	-	-	-	180	206	V
8	5.469	28.62	RMS	34.6	-16.9	0	46.32	-	-	-	-	180	206	V

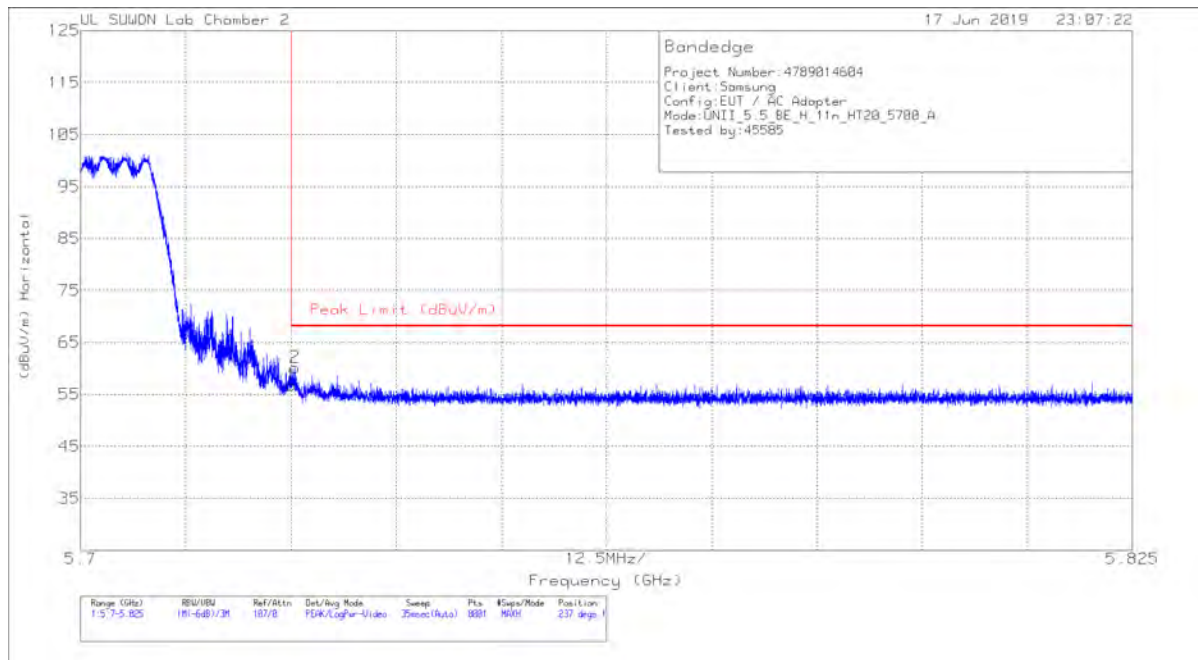
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

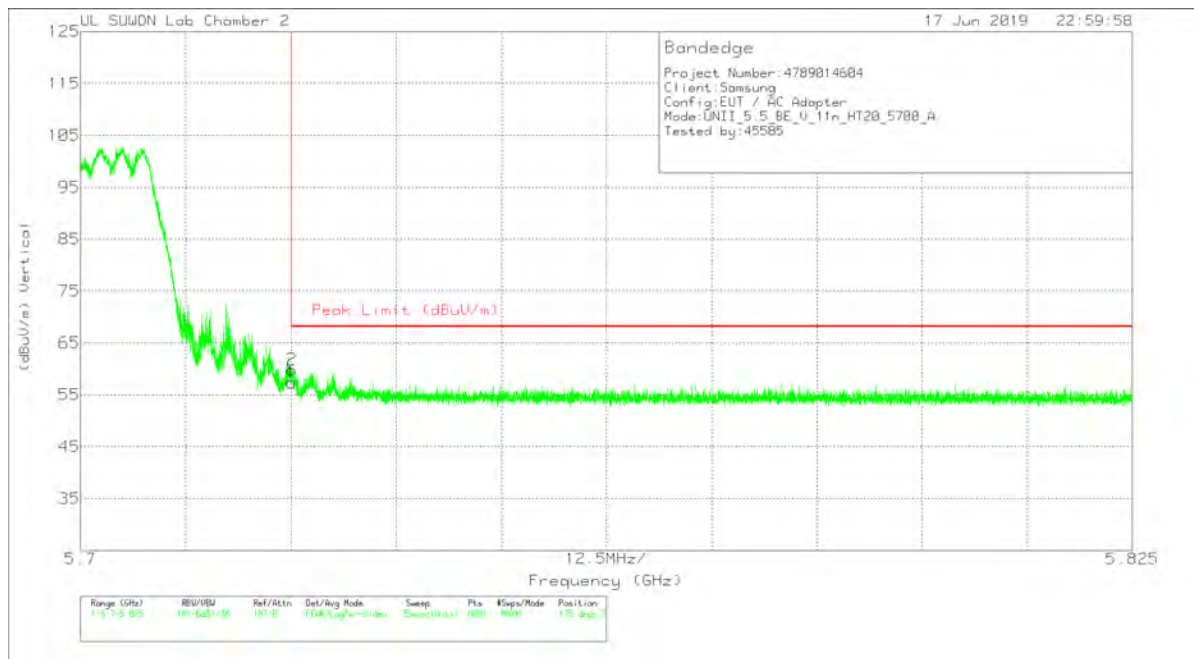


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.68	Pk	34.7	-17.6	0	56.78	68.2	-11.42	237	105	H
2	5.725	43.01	Pk	34.7	-17.5	0	60.21	68.2	-7.99	237	105	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



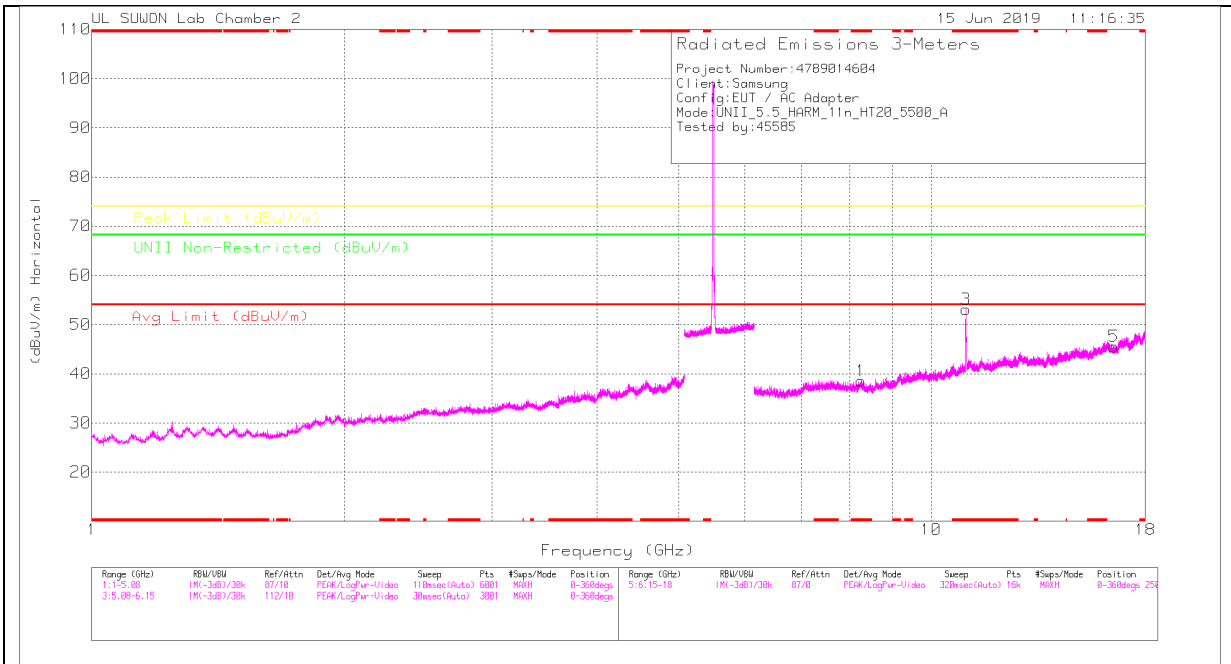
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.24	Pk	34.7	-17.6	0	57.34	68.2	-10.86	175	204	V
2	5.725	42.75	Pk	34.7	-17.6	0	59.85	68.2	-8.35	175	204	V

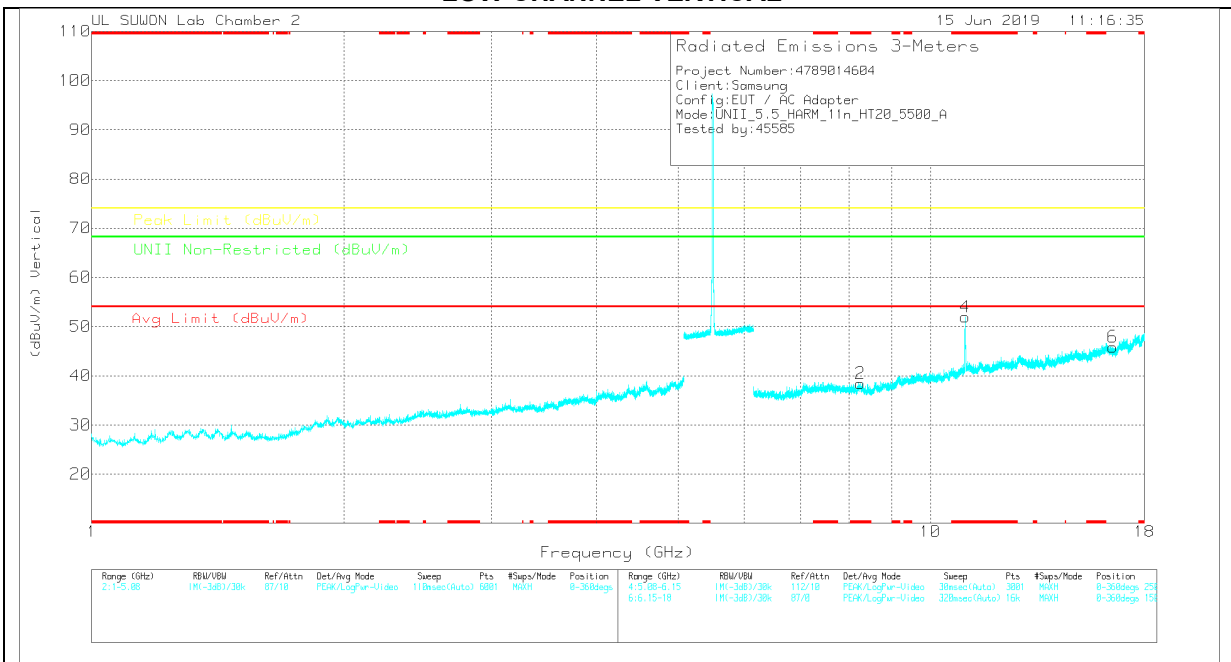
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 8.255	25.54	PK	36	-23	0	38.54	-	-	74	-35.46	-	-	0-360	250	H
3	* 10.996	35.52	PK	38.1	-20.5	0	53.12	-	-	74	-20.88	-	-	0-360	150	H
5	16.498	24.9	PK	40.5	-19.9	0	45.5	-	-	-	-	68.2	-22.7	0-360	250	H
2	* 8.253	25.43	PK	36	-23	0	38.43	-	-	74	-35.57	-	-	0-360	150	V
4	* 11.002	34.31	PK	38.1	-20.5	0	51.91	-	-	74	-22.09	-	-	0-360	250	V
6	16.501	25.15	PK	40.5	-19.8	0	45.85	-	-	-	-	68.2	-22.35	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

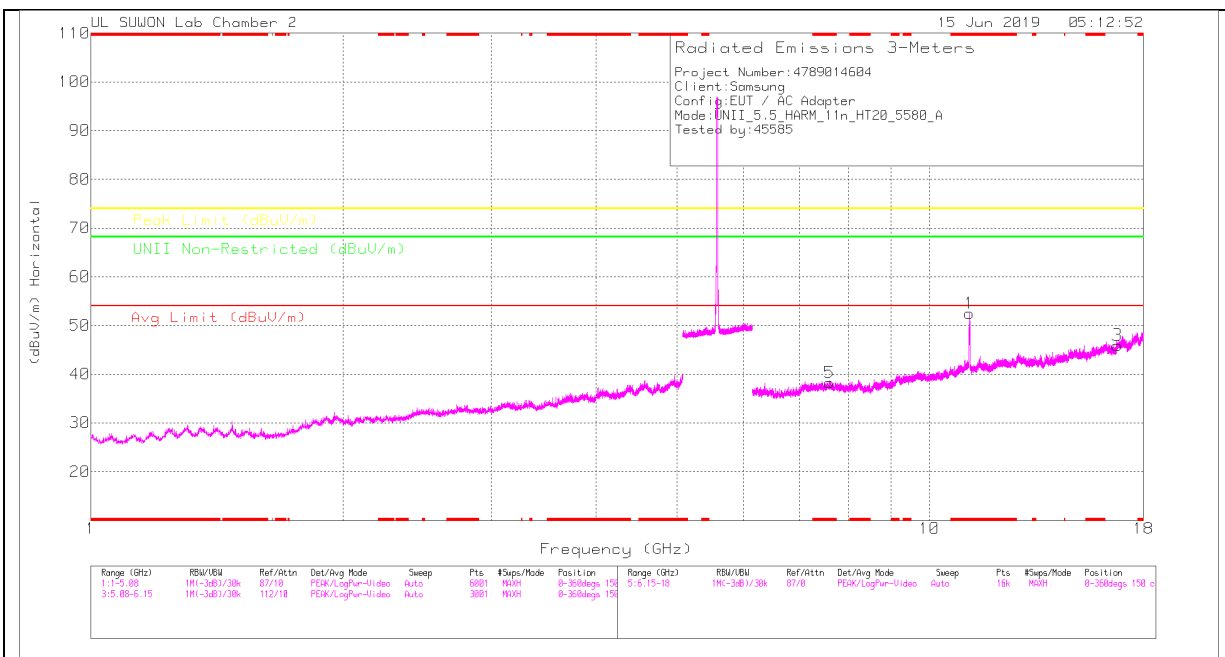
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.002	46.34	PK-U	38.1	-20.5	0	63.94	-	-	74	-10.06	-	-	252	133	H
* 10.999	33.34	ADR	38.1	-20.6	0	50.84	54	-3.16	-	-	-	-	252	133	H
* 10.999	46.42	PK-U	38.1	-20.6	0	63.92	-	-	74	-10.08	-	-	149	179	V
* 10.999	33.39	ADR	38.1	-20.6	0	50.89	54	-3.11	-	-	-	-	149	179	V

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

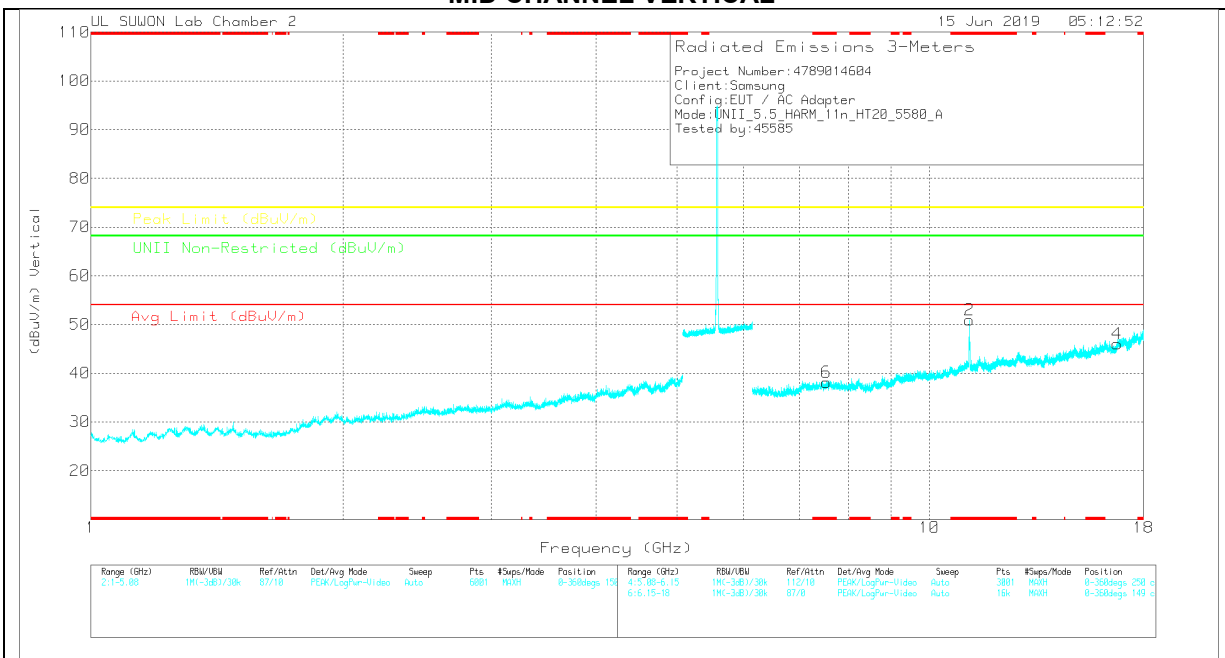
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.159	33.92	PK	38.2	-19.6	0	52.52	-	-	74	-21.48	-	-	0-360	250	H
3	16.746	24.05	PK	41	-19.1	0	45.95	-	-	-	-	68.2	-22.25	0-360	250	H
5	* 7.599	26.12	PK	36.1	-24	0	38.22	-	-	74	-35.78	-	-	0-360	250	H
2	* 11.157	32.28	PK	38.2	-19.6	0	50.88	-	-	74	-23.12	-	-	0-360	149	V
4	16.745	24.16	PK	40.9	-19.1	0	45.96	-	-	-	-	68.2	-22.24	0-360	250	V
6	* 7.539	26.64	PK	36.1	-24.6	0	38.14	-	-	74	-35.86	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

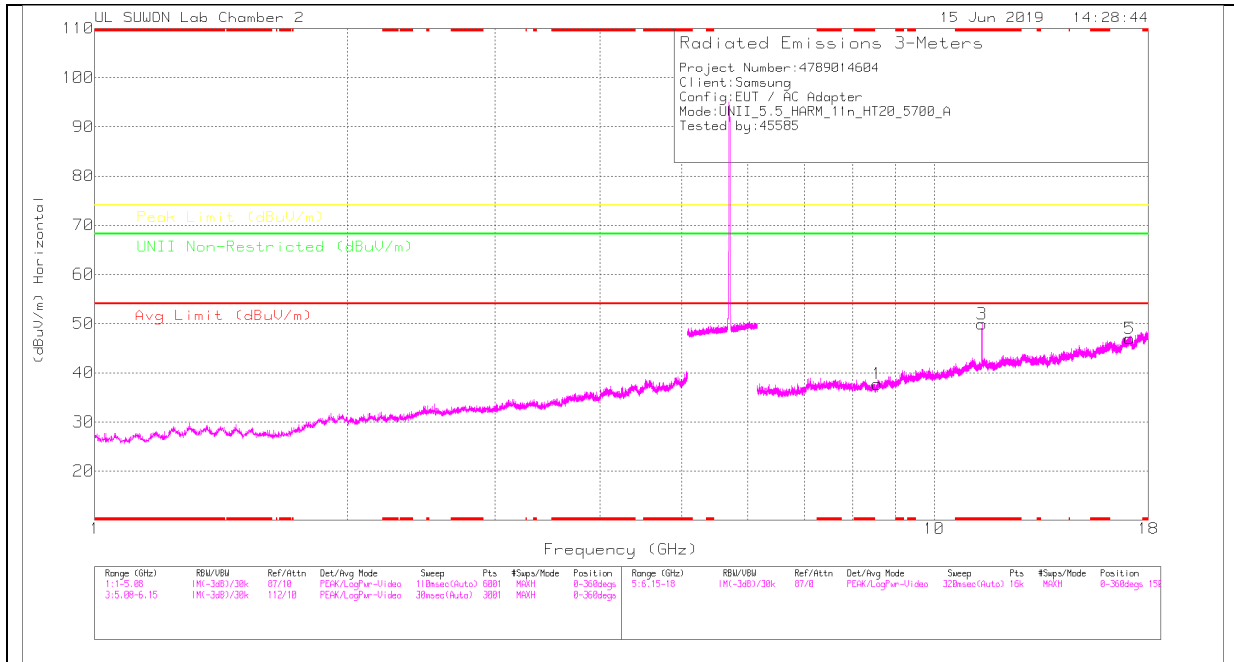
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.159	44.05	PK-U	38.2	-19.6	0	62.65	-	-	74	-11.35	-	-	251	159	H
* 11.159	31.16	ADR	38.2	-19.6	0	49.76	54	-4.24	-	-	-	-	251	159	H
* 11.157	43.63	PK-U	38.2	-19.6	0	62.23	-	-	74	-11.77	-	-	132	167	V
* 11.159	30.61	ADR	38.2	-19.6	0	49.21	54	-4.79	-	-	-	-	132	167	V

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

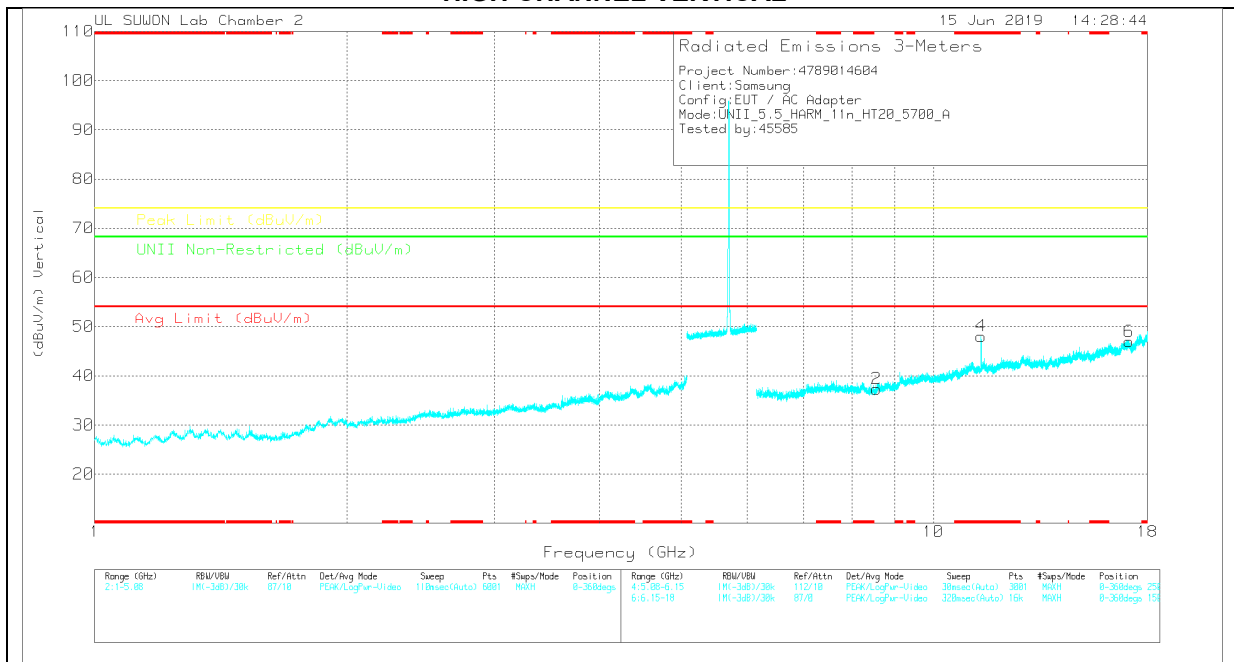
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.555	24.31	PK	36.1	-22.7	0	37.71	-	-	-	-	68.2	-30.49	0-360	150	H
3	* 11.399	31.81	PK	38.3	-20.2	0	49.91	-	-	74	-24.09	-	-	0-360	150	H
5	17.097	24.36	PK	41.3	-18.7	0	46.96	-	-	-	-	68.2	-21.24	0-360	150	H
2	8.552	23.93	PK	36.1	-22.7	0	37.33	-	-	-	-	68.2	-30.87	0-360	250	V
4	* 11.398	29.95	PK	38.3	-20.2	0	48.05	-	-	74	-25.95	-	-	0-360	150	V
6	17.1	24.36	PK	41.3	-18.7	0	46.96	-	-	-	-	68.2	-21.24	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.397	42.41	PK-U	38.3	-20.2	0	60.51	-	-	74	-13.49	-	-	254	151	H
* 11.4	29.71	ADR	38.3	-20.2	0	47.81	54	-6.19	-	-	-	-	254	151	H
* 11.394	41.26	PK-U	38.3	-20.3	0	59.26	-	-	74	-14.74	-	-	150	164	V
* 11.399	28.76	ADR	38.3	-20.2	0	46.86	54	-7.14	-	-	-	-	150	164	V

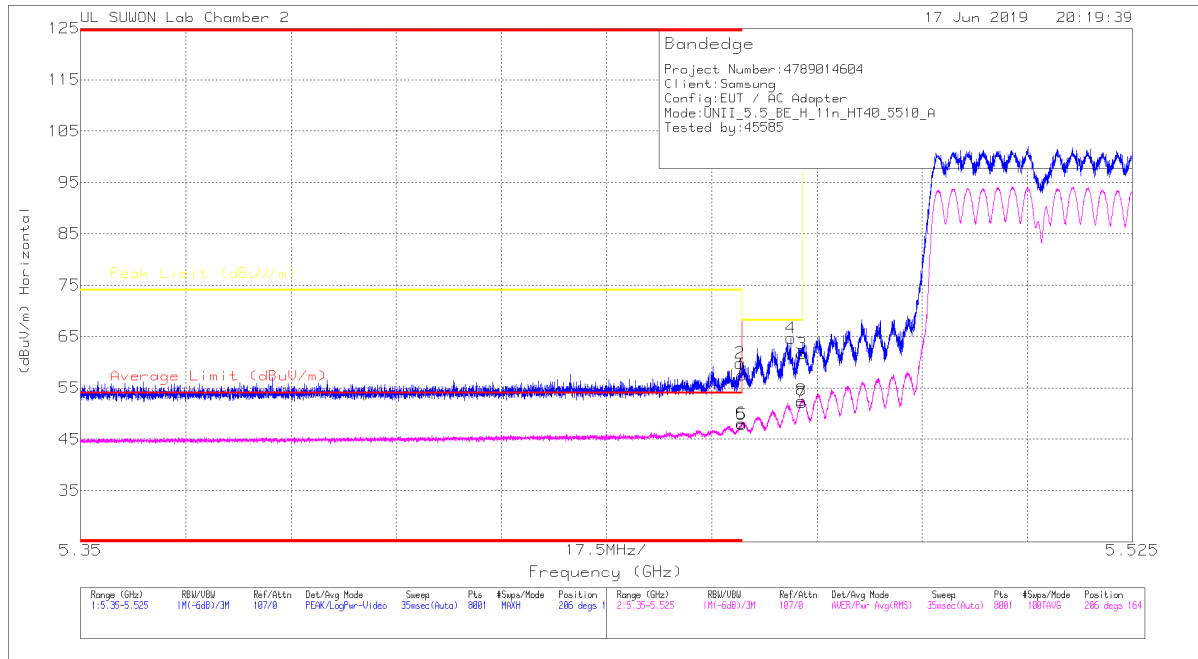
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.3.3.TX ABOVE 1GHz 802.11n HT40 2Tx CDD MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

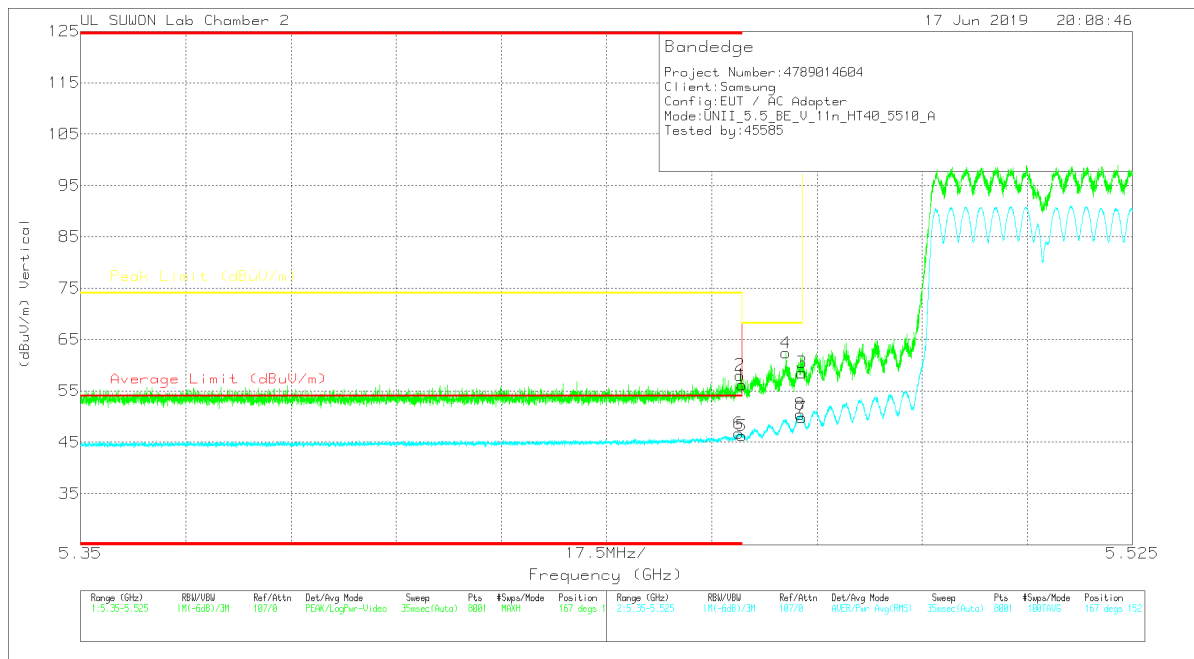
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00158724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	41.09	Pk	34.6	-18.2	0	57.49	-	-	74	-16.51	206	164	H
2	* 5.46	43.37	Pk	34.6	-18.2	0	59.77	-	-	74	-14.23	206	164	H
3	5.47	45.17	Pk	34.6	-18.1	0	61.67	-	-	68.2	-6.53	206	164	H
4	5.468	48.26	Pk	34.6	-18.2	0	64.66	-	-	68.2	-3.54	206	164	H
5	* 5.46	30.15	RMS	34.6	-16.9	0	47.85	54	-6.15	-	-	206	164	H
6	* 5.46	30.4	RMS	34.6	-16.9	0	48.1	54	-5.9	-	-	206	164	H
7	5.47	34.44	RMS	34.6	-16.9	0	52.14	-	-	-	-	206	164	H
8	5.47	34.85	RMS	34.6	-16.9	0	52.55	-	-	-	-	206	164	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	39.78	Pk	34.6	-18.2	0	56.18	-	-	74	-17.82	167	152	V
2	* 5.46	41.63	Pk	34.6	-18.2	0	58.03	-	-	74	-15.97	167	152	V
3	5.47	42.04	Pk	34.6	-18.1	0	58.54	-	-	68.2	-9.66	167	152	V
4	5.467	46.01	Pk	34.6	-18.2	0	62.41	-	-	68.2	-5.79	167	152	V
5	* 5.46	28.57	RMS	34.6	-16.9	0	46.27	54	-7.73	-	-	167	152	V
6	* 5.46	29.05	RMS	34.6	-16.9	0	46.75	54	-7.25	-	-	167	152	V
7	5.47	32.1	RMS	34.6	-16.9	0	49.8	-	-	-	-	167	152	V
8	5.47	32.74	RMS	34.6	-16.9	0	50.44	-	-	-	-	167	152	V

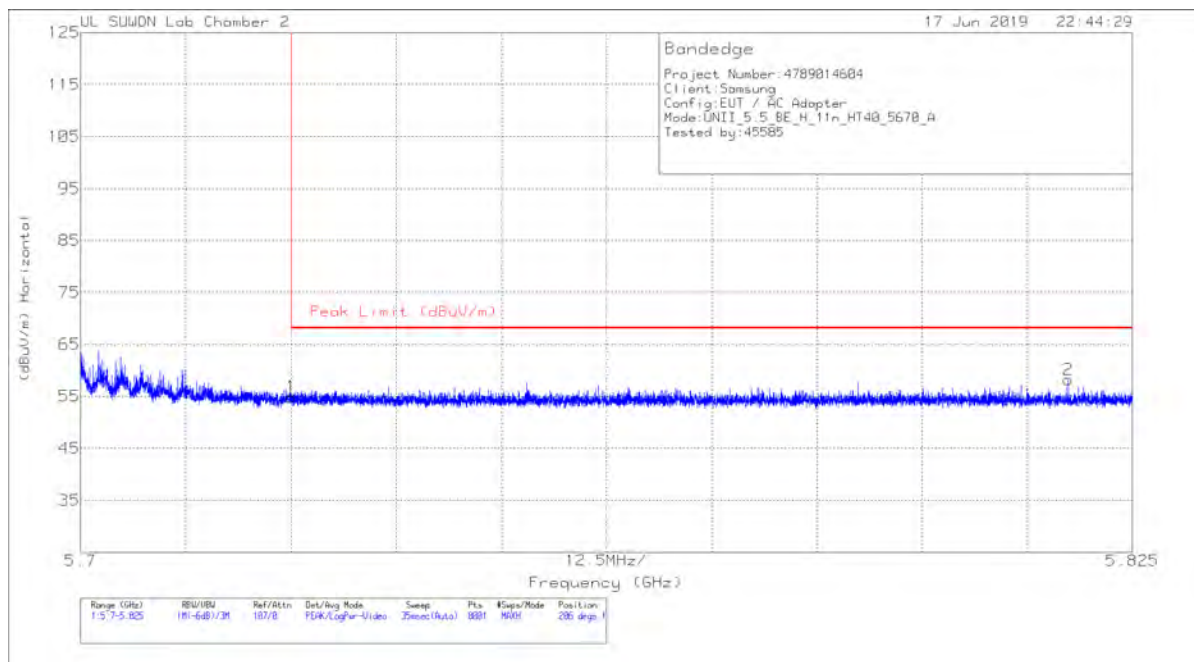
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

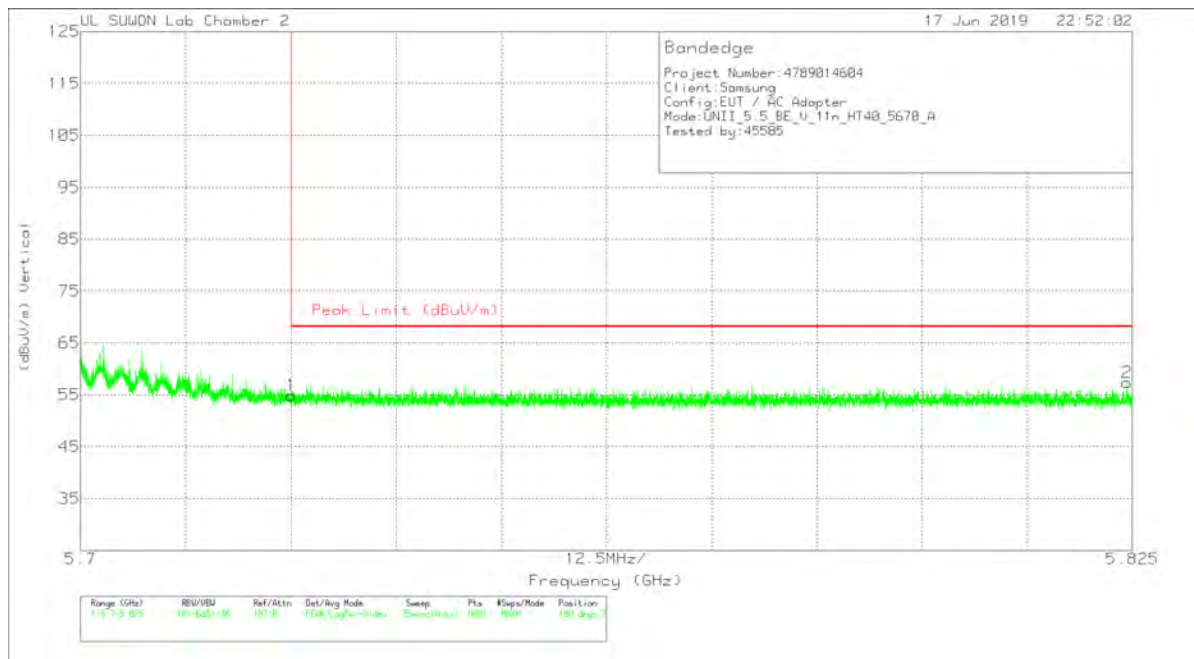


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.79	Pk	34.7	-17.6	0	54.89	68.2	-13.31	206	117	H
2	5.817	40.89	Pk	34.8	-17.5	0	58.19	68.2	-10.01	206	117	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



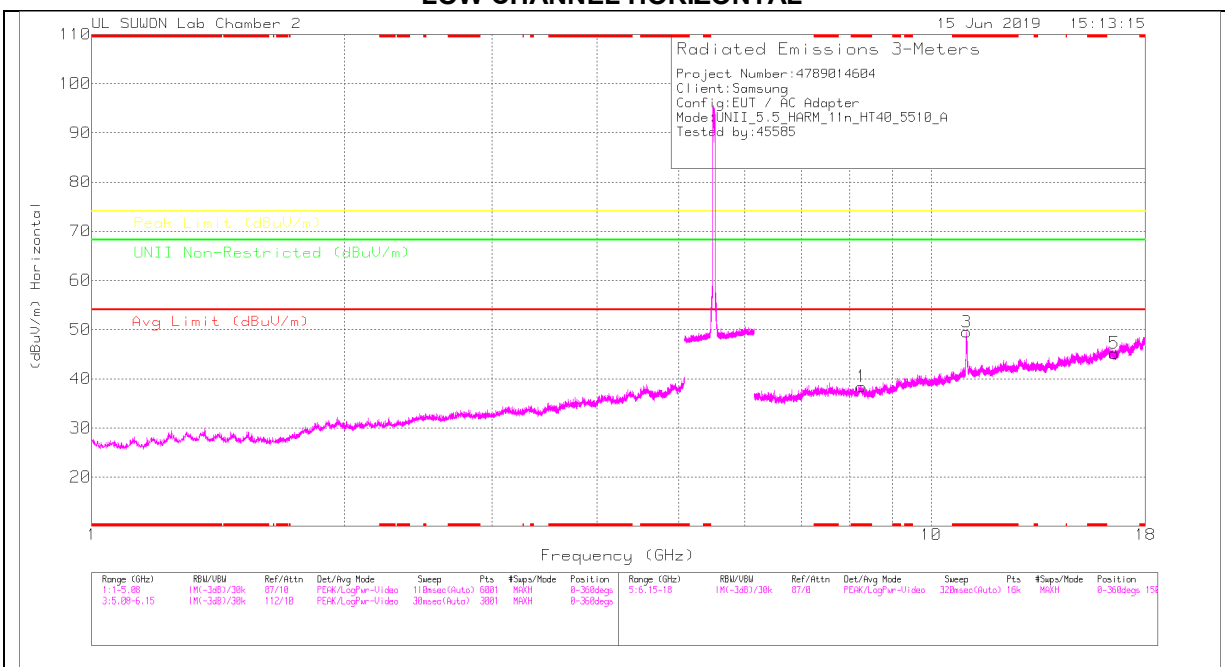
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.79	Pk	34.7	-17.6	0	54.89	68.2	-13.31	180	227	V
2	5.824	40.08	Pk	34.8	-17.5	0	57.38	68.2	-10.82	180	227	V

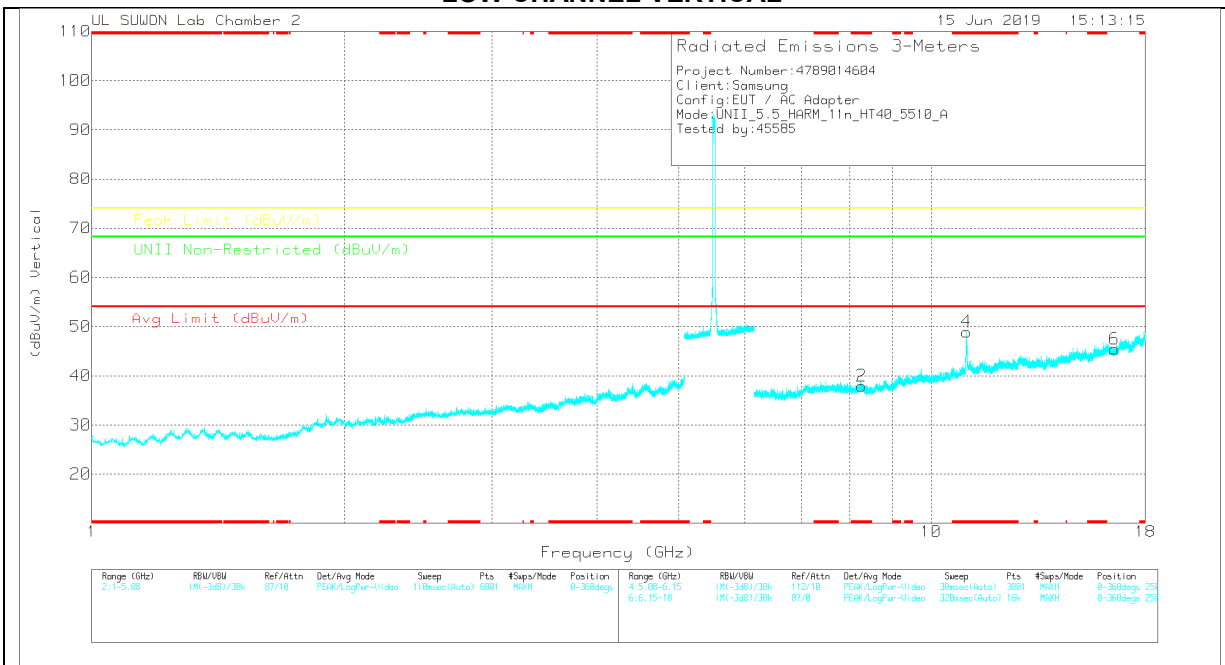
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00188724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.267	25.33	PK	36	-22.9	0	38.43	-	-	74	-35.57	-	-	0-360	250	H
3	* 11.019	32.04	PK	38.1	-20.6	0	49.54	-	-	74	-24.46	-	-	0-360	250	H
5	16.535	24.51	PK	40.5	-19.8	0	45.21	-	-	-	-	68.2	-22.99	0-360	150	H
2	* 8.265	24.83	PK	36	-22.9	0	37.93	-	-	74	-36.07	-	-	0-360	150	V
4	* 11.019	31.43	PK	38.1	-20.6	0	48.93	-	-	74	-25.07	-	-	0-360	150	V
6	16.53	24.7	PK	40.5	-19.8	0	45.4	-	-	-	-	68.2	-22.8	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

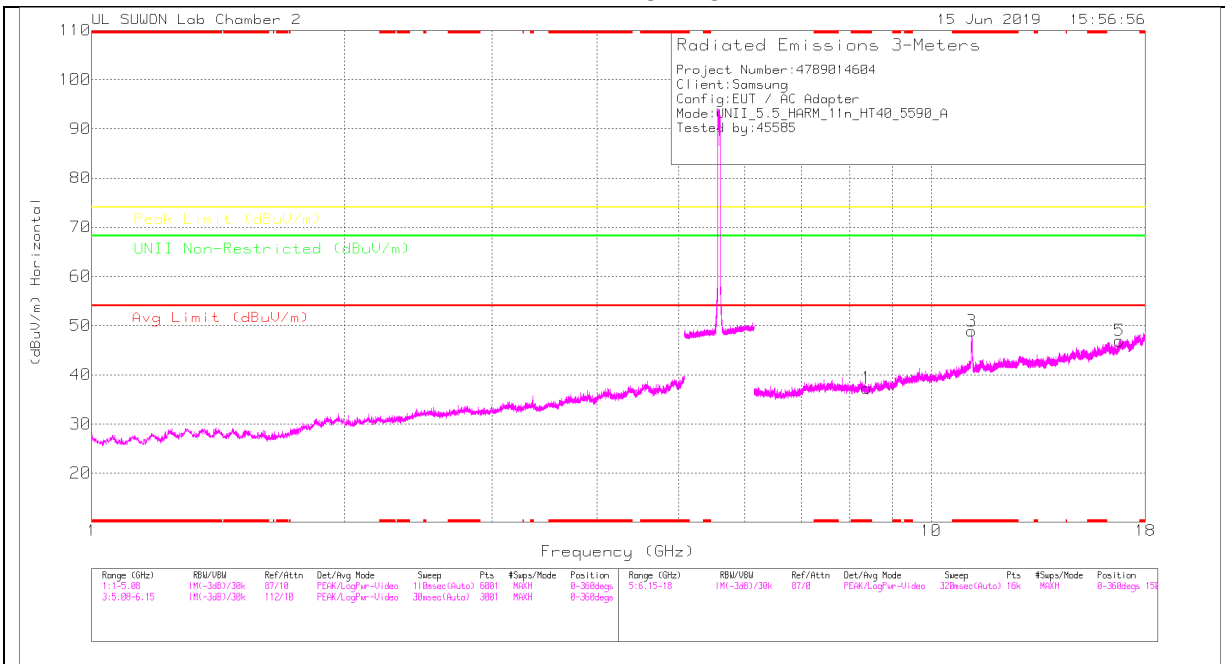
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00188724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.022	44.03	PK-U	38.1	-20.6	0	61.53	-	-	74	-12.47	-	-	253	144	H
* 11.019	30.63	ADR	38.1	-20.6	0	48.13	54	-5.87	-	-	-	-	253	144	H
* 11.022	42.56	PK-U	38.1	-20.6	0	60.06	-	-	74	-13.94	-	-	145	172	V
* 11.019	29.73	ADR	38.1	-20.6	0	47.23	54	-6.77	-	-	-	-	145	172	V

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

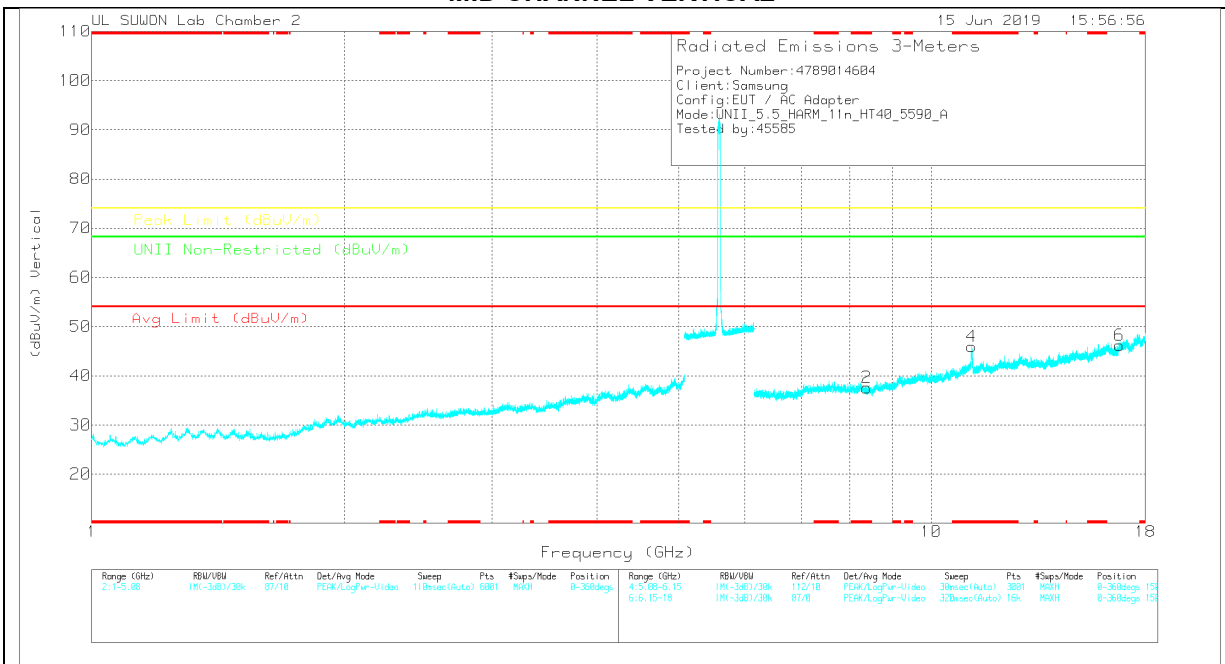
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.384	25.1	PK	36	-23.8	0	37.3	-	-	74	-36.7	-	-	0-360	250	H
3	* 11.179	30.35	PK	38.2	-19.7	0	48.85	-	-	74	-25.15	-	-	0-360	250	H
5	16.77	24.72	PK	41	-18.8	0	46.92	-	-	-	-	68.2	-21.28	0-360	150	H
2	* 8.383	25.38	PK	36	-23.8	0	37.58	-	-	74	-36.42	-	-	0-360	250	V
4	* 11.179	27.41	PK	38.2	-19.7	0	45.91	-	-	74	-28.09	-	-	0-360	150	V
6	16.77	23.98	PK	41	-18.8	0	46.18	-	-	-	-	68.2	-22.02	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

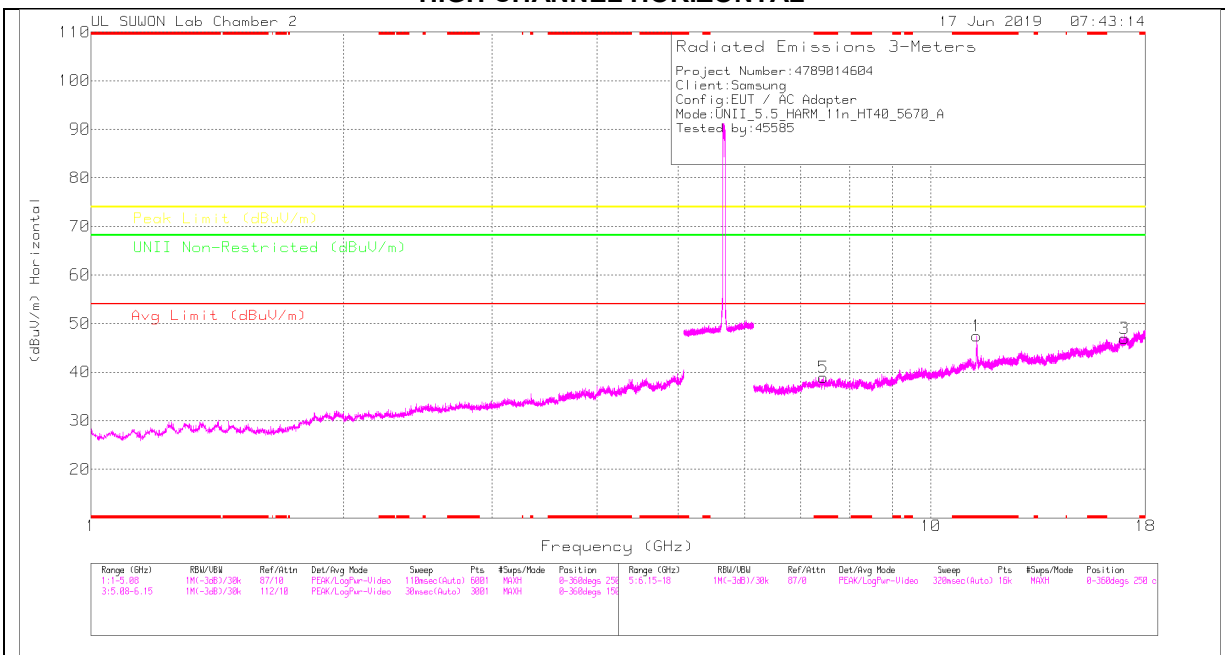
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.177	40.86	PK-U	38.2	-19.6	0	59.46	-	-	74	-14.54	-	-	254	136	H
* 11.179	28.07	ADR	38.2	-19.7	0	46.57	54	-7.43	-	-	-	-	254	136	H
* 11.18	41	PK-U	38.2	-19.7	0	59.5	-	-	74	-14.5	-	-	136	175	V
* 11.179	27.87	ADR	38.2	-19.7	0	46.37	54	-7.63	-	-	-	-	136	175	V

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

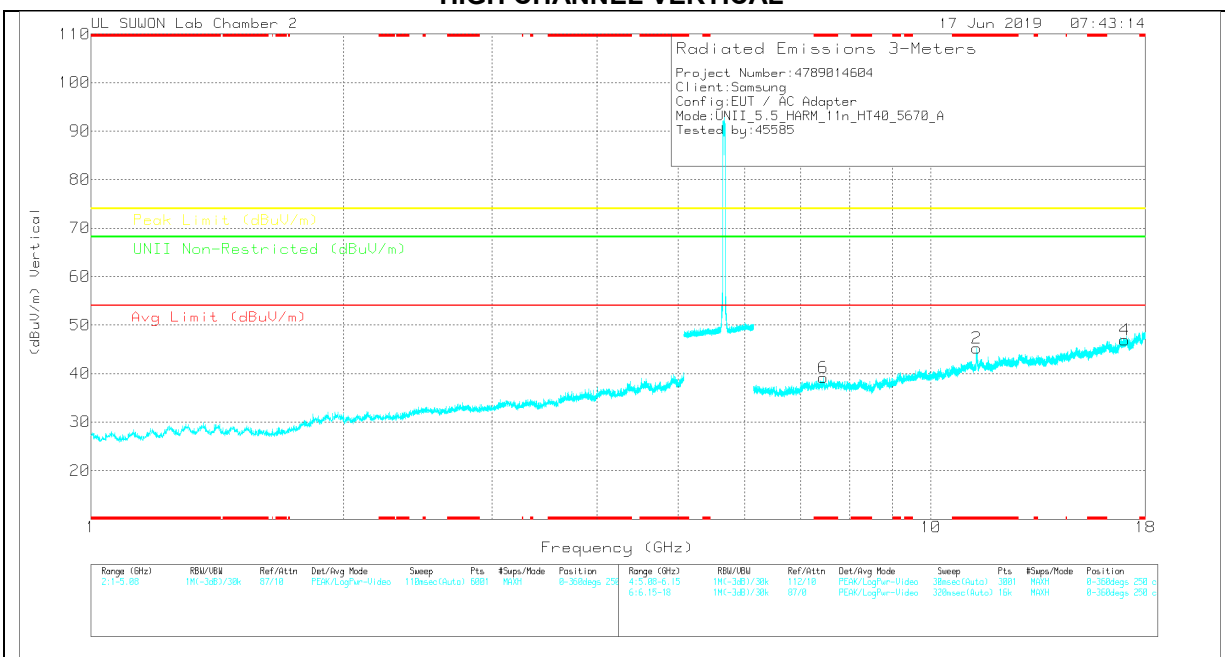
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 11.339	29.5	PK	38.3	-20.3	0	47.5	-	-	74	-26.5	-	-	0-360	250	H
3	17.005	24.27	PK	41.3	-18.6	0	46.97	-	-	-	-	68.2	-21.23	0-360	250	H
5	* 7.442	27.06	PK	36.2	-24.3	0	38.96	-	-	74	-35.04	-	-	0-360	150	H
2	* 11.337	27.26	PK	38.3	-20.3	0	45.26	-	-	74	-28.74	-	-	0-360	150	V
4	17.008	24.21	PK	41.3	-18.6	0	46.91	-	-	-	-	68.2	-21.29	0-360	250	V
6	* 7.439	27.21	PK	36.2	-24.3	0	39.11	-	-	74	-34.89	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.337	42.61	PK-U	38.3	-20.3	0	60.61	-	-	74	-13.39	-	-	177	184	H
* 11.34	28.63	ADR	38.3	-20.3	0	46.63	54	-7.37	-	-	-	-	177	184	H
* 11.337	39.89	PK-U	38.3	-20.3	0	57.89	-	-	74	-16.11	-	-	139	177	V
* 11.339	27.08	ADR	38.3	-20.3	0	45.08	54	-8.92	-	-	-	-	139	177	V

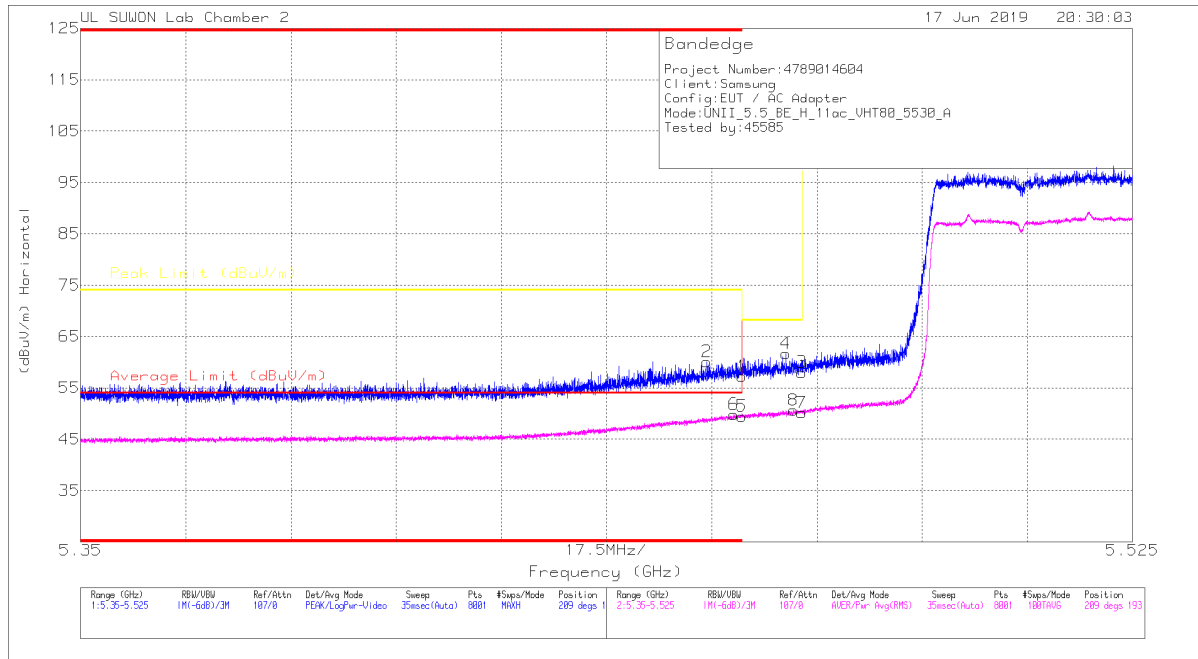
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.3.4.TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

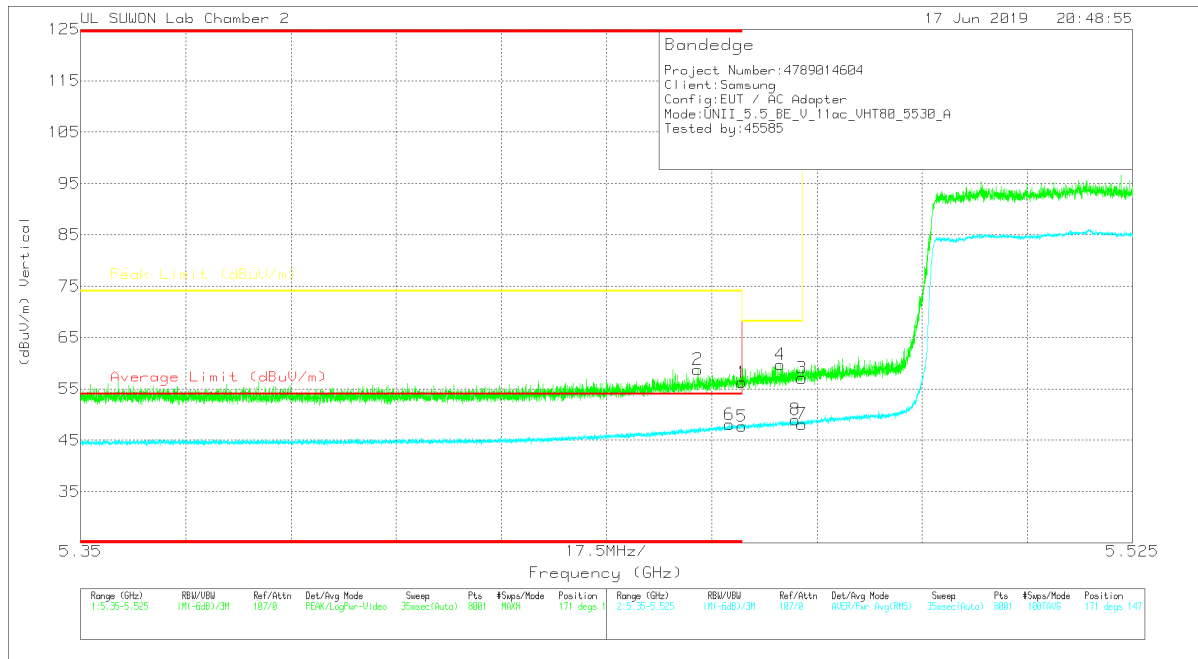
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00158724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	40.84	Pk	34.6	-18.2	0	57.24	-	-	74	-16.76	209	193	H
2	* 5.454	43.6	Pk	34.6	-18.1	0	60.1	-	-	74	-13.9	209	193	H
3	5.47	41.54	Pk	34.6	-18.1	0	58.04	-	-	68.2	-10.16	209	193	H
4	5.467	45.3	Pk	34.6	-18.2	0	61.7	-	-	68.2	-6.5	209	193	H
5	* 5.46	31.79	RMS	34.6	-16.9	0	49.49	54	-4.51	-	-	209	193	H
6	* 5.459	32.13	RMS	34.6	-16.9	0	49.83	54	-4.17	-	-	209	193	H
7	5.47	32.47	RMS	34.6	-16.9	0	50.17	-	-	-	-	209	193	H
8	5.469	32.97	RMS	34.6	-16.9	0	50.67	-	-	-	-	209	193	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.46	39.86	Pk	34.6	-18.2	0	56.26	-	-	74	-17.74	171	147	V
2	* 5.453	42.37	Pk	34.6	-18.2	0	58.77	-	-	74	-15.23	171	147	V
3	5.47	40.58	Pk	34.6	-18.1	0	57.08	-	-	68.2	-11.12	171	147	V
4	5.466	43.33	Pk	34.6	-18.2	0	59.73	-	-	68.2	-8.47	171	147	V
5	* 5.46	30.01	RMS	34.6	-16.9	0	47.71	54	-6.29	-	-	171	147	V
6	* 5.458	30.39	RMS	34.6	-16.9	0	48.09	54	-5.91	-	-	171	147	V
7	5.47	30.45	RMS	34.6	-16.9	0	48.15	-	-	-	-	171	147	V
8	5.469	31.3	RMS	34.6	-16.9	0	49	-	-	-	-	171	147	V

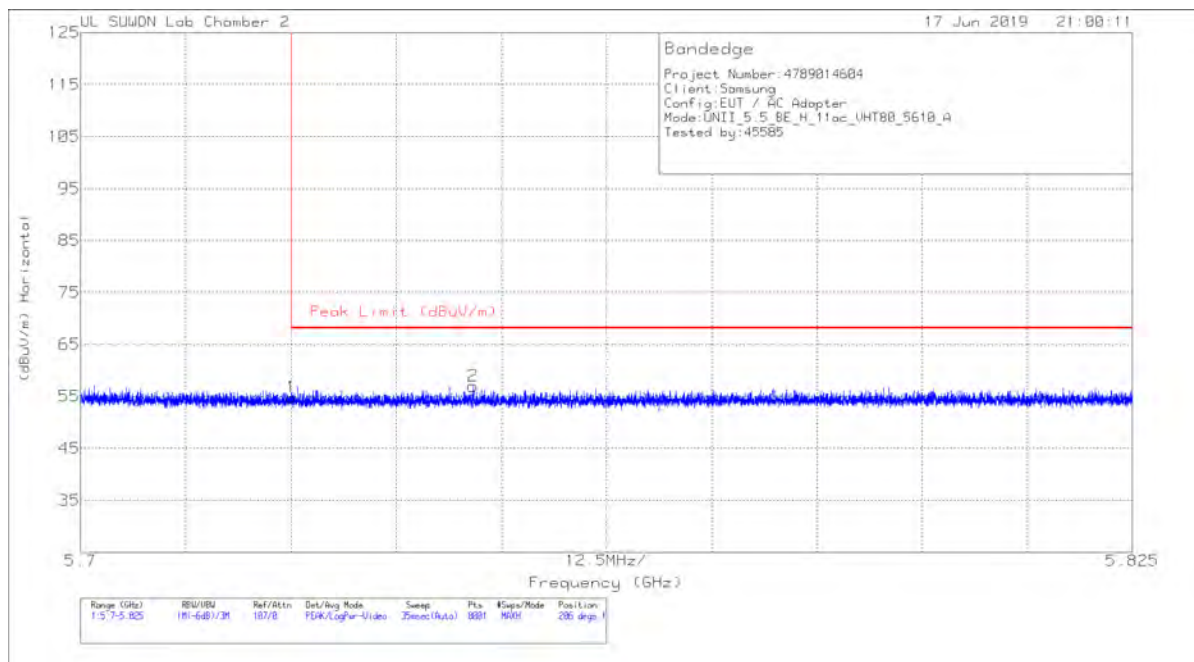
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

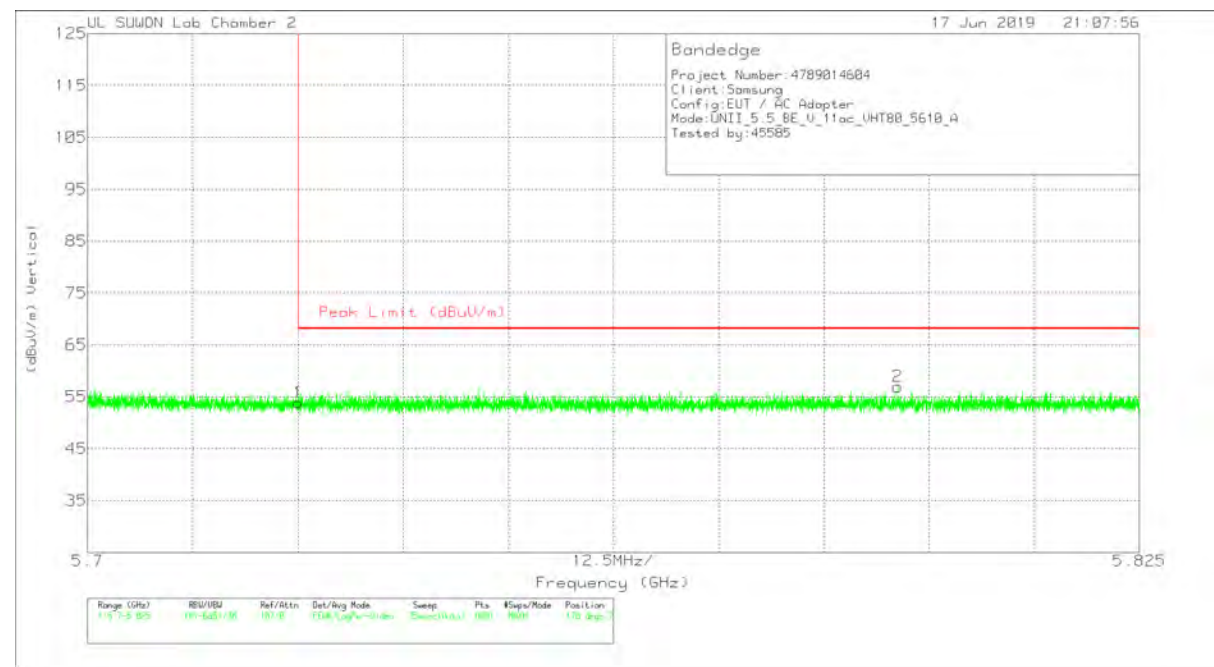


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.68	Pk	34.7	-17.6	0	54.78	68.2	-13.42	206	125	H
2	5.747	39.87	Pk	34.7	-17.6	0	56.97	68.2	-11.23	206	125	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



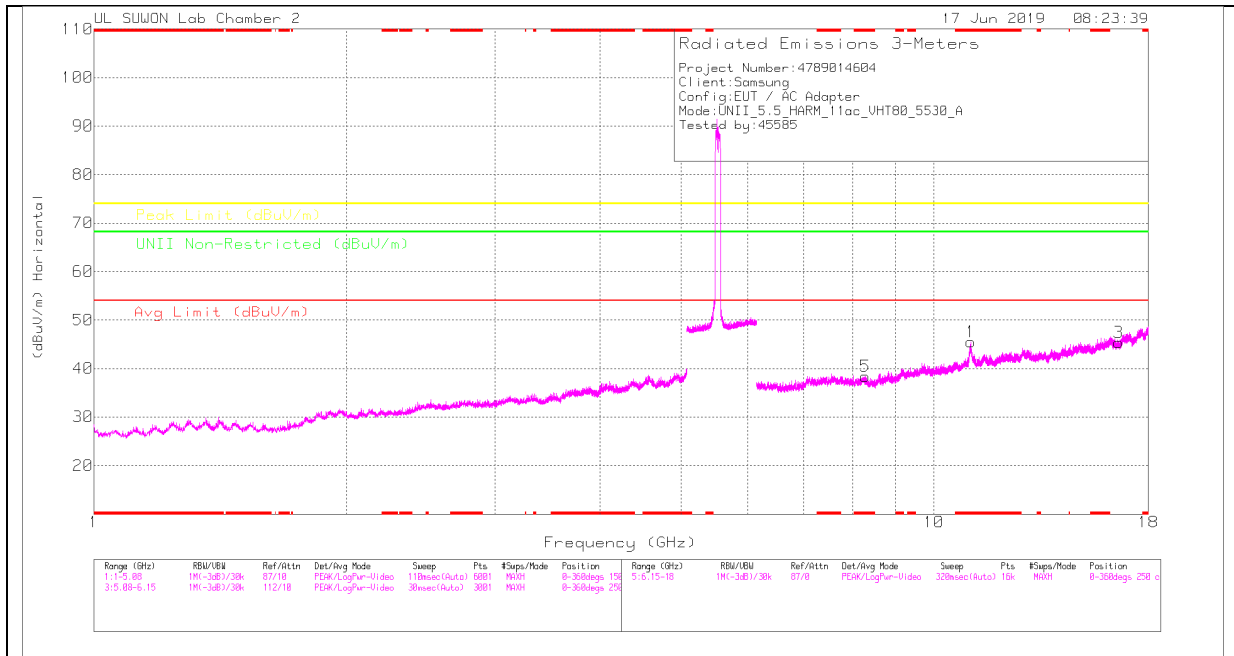
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.76	Pk	34.7	-17.6	0	53.86	68.2	-14.34	178	219	V
2	5.796	39.67	Pk	34.8	-17.5	0	56.97	68.2	-11.23	178	219	V

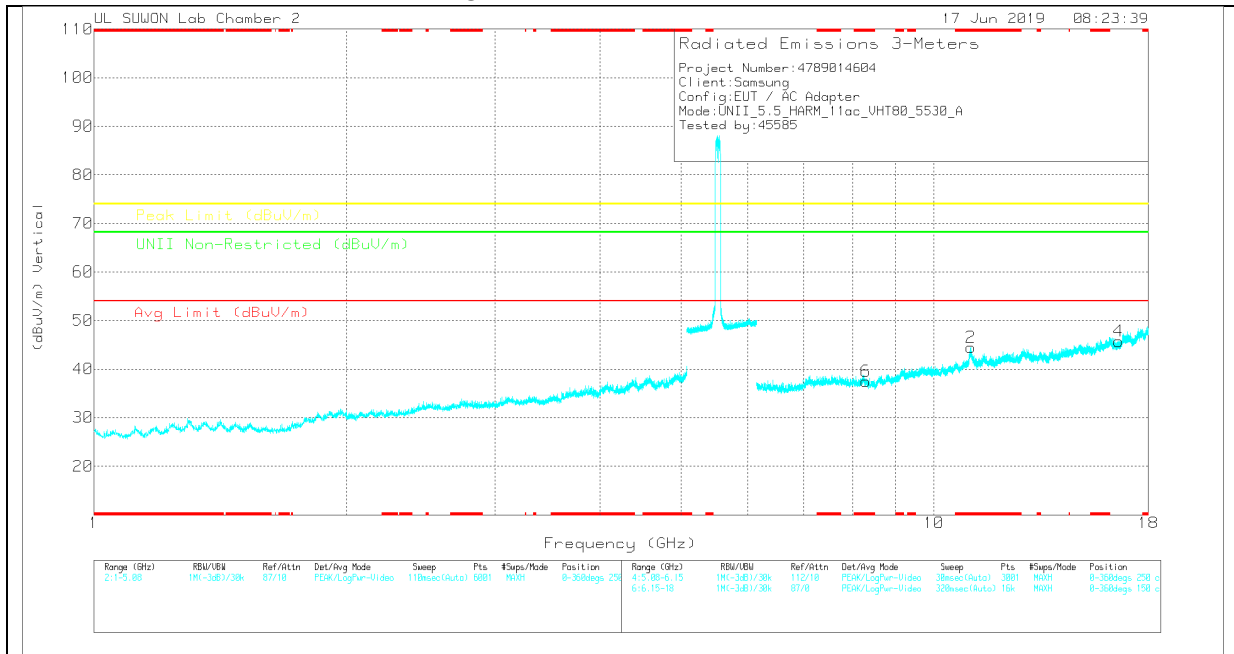
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.059	27.75	PK	38.2	-20.5	0	45.45	-	-	74	-28.55	-	-	0-360	150	H
3	16.595	24.51	PK	40.6	-19.7	0	45.41	-	-	-	-	68.2	-22.79	0-360	150	H
5	* 8.29	25.18	PK	36	-22.8	0	38.38	-	-	74	-35.62	-	-	0-360	250	H
2	* 11.062	26.75	PK	38.2	-20.5	0	44.45	-	-	74	-29.55	-	-	0-360	150	V
4	16.589	24.8	PK	40.6	-19.7	0	45.7	-	-	-	-	68.2	-22.5	0-360	250	V
6	* 8.295	24.18	PK	36	-22.7	0	37.48	-	-	74	-36.52	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

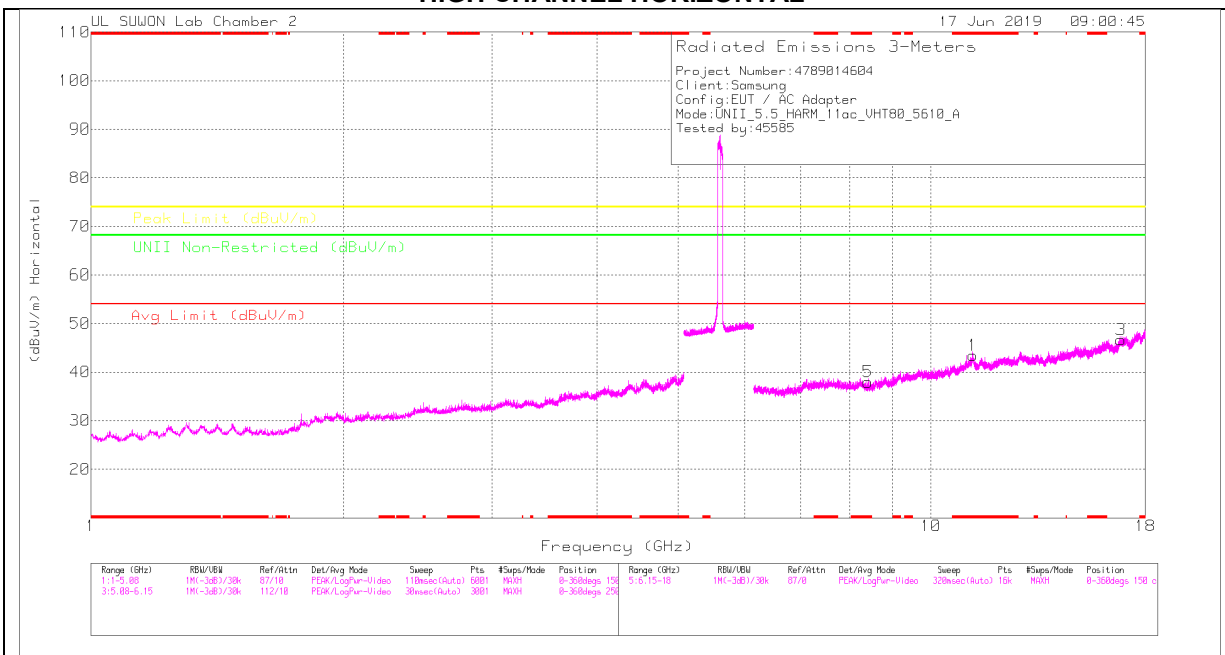
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.067	38.34	PK-U	38.2	-20.4	0	56.14	-	-	74	-17.86	-	-	252	131	H
* 11.064	25.33	ADR	38.2	-20.5	0	43.03	54	-10.97	-	-	-	-	252	131	H
* 11.064	38.36	PK-U	38.2	-20.5	0	56.06	-	-	74	-17.94	-	-	153	185	V
* 11.06	25.34	ADR	38.2	-20.5	0	43.04	54	-10.96	-	-	-	-	153	185	V

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

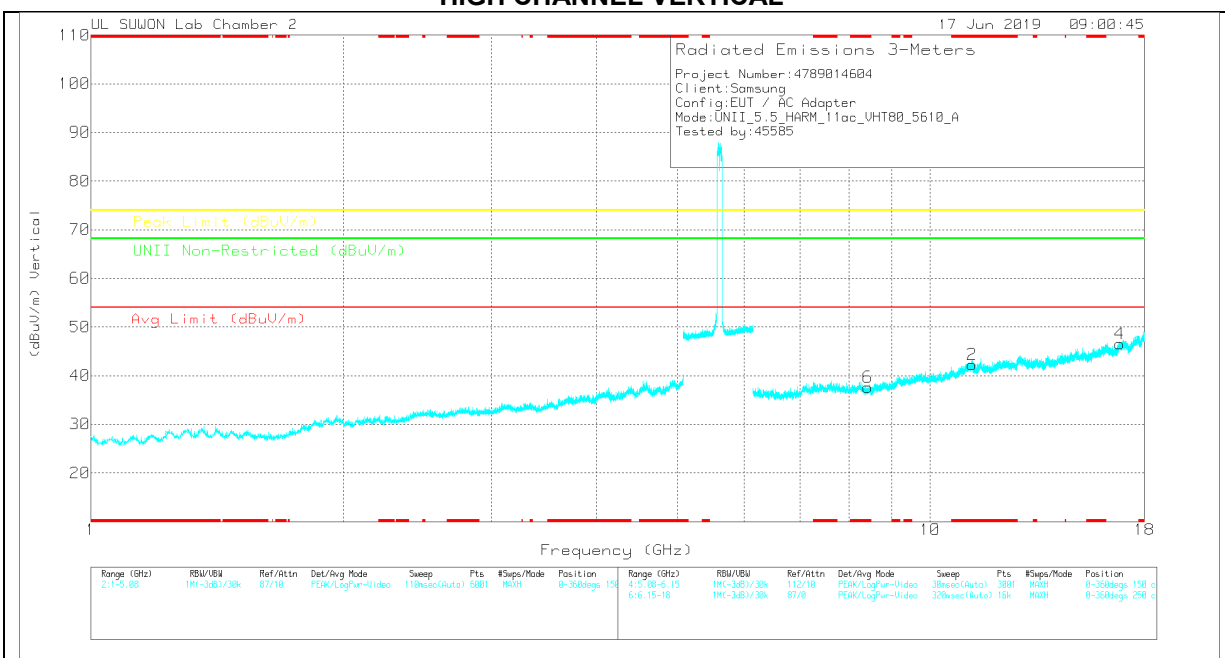
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 11.218	25.34	PK	38.3	-20.2	0	43.44	-	-	74	-30.56	-	-	0-360	250	H
3	16.833	24.05	PK	41.2	-18.6	0	46.65	-	-	-	-	68.2	-21.55	0-360	150	H
5	* 8.417	25.44	PK	36	-23.5	0	37.94	-	-	74	-36.06	-	-	0-360	250	H
2	* 11.213	24.09	PK	38.3	-20.1	0	42.29	-	-	74	-31.71	-	-	0-360	250	V
4	16.829	23.94	PK	41.1	-18.5	0	46.54	-	-	-	-	68.2	-21.66	0-360	250	V
6	* 8.421	25.07	PK	36	-23.5	0	37.57	-	-	74	-36.43	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.218	38.32	PK-U	38.3	-20.2	0	56.42	-	-	74	-17.58	-	-	176	175	H
* 11.22	25.29	ADR	38.3	-20.2	0	43.39	54	-10.61	-	-	-	-	176	175	H
* 11.229	36.77	PK-U	38.3	-20.3	0	54.77	-	-	74	-19.23	-	-	143	172	V
* 11.219	24.1	ADR	38.3	-20.2	0	42.2	54	-11.8	-	-	-	-	143	172	V

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

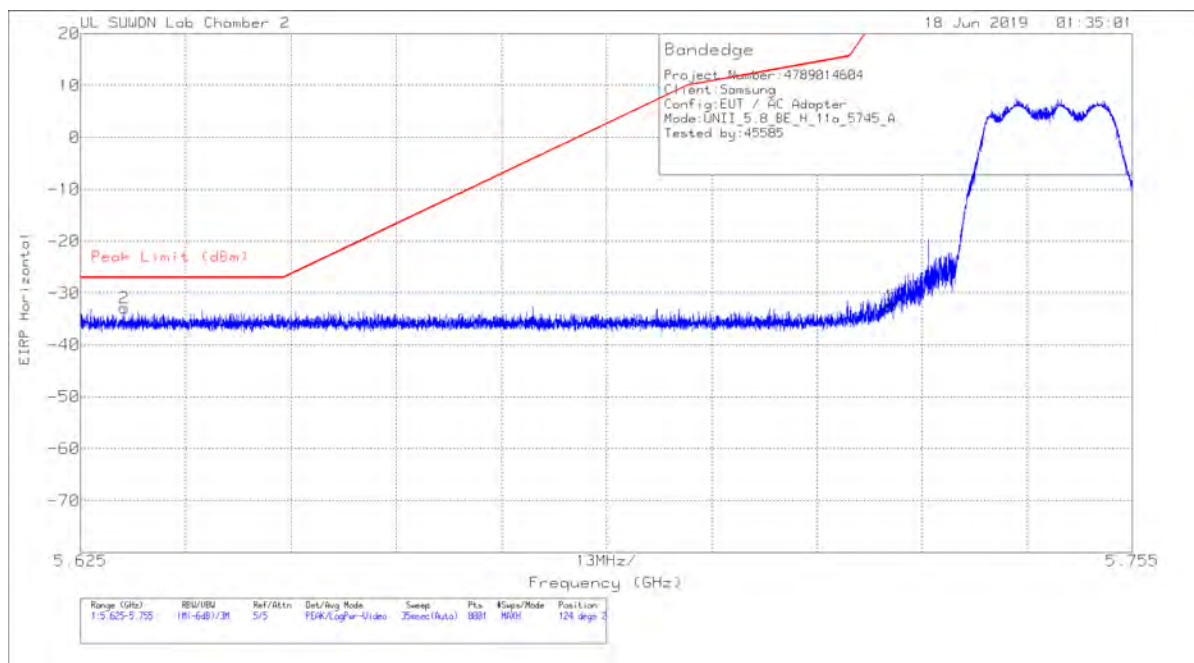
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.4. 5.8 GHz

11.4.1. TX ABOVE 1GHz 802.11a 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT

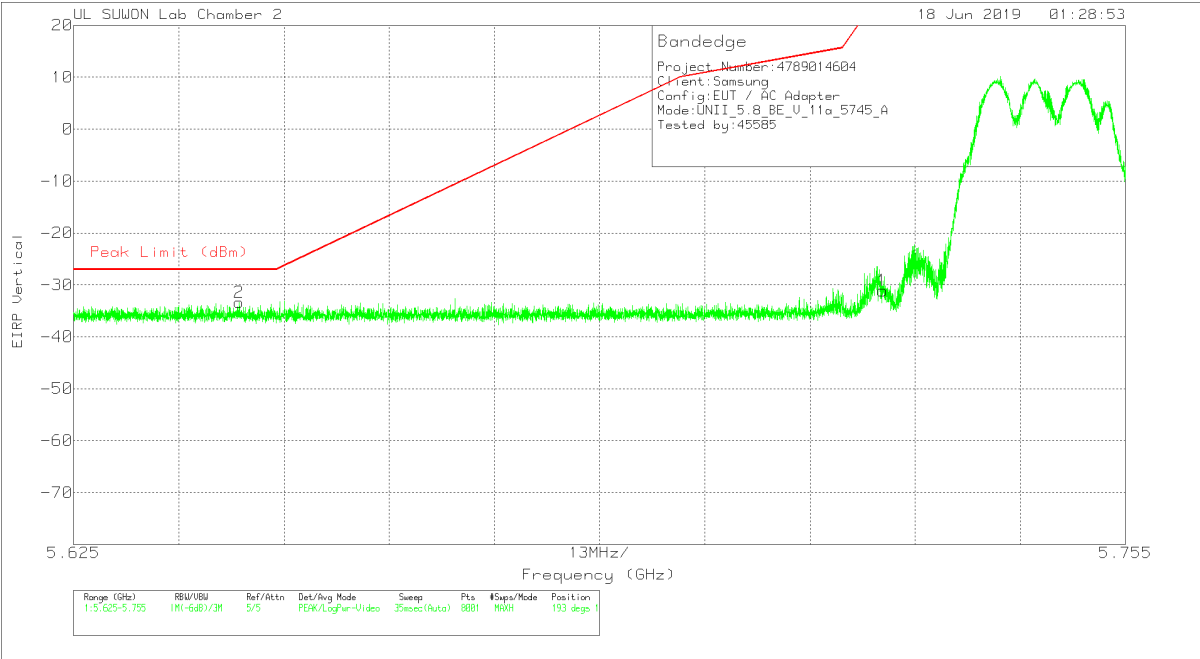


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-63.22	Pk	34.5	-15.6	11.8	0	-32.52	26.97	-59.49	124	298	H
2	5.63	-63.36	Pk	34.4	-15.7	11.8	0	-32.86	-27	-5.86	124	298	H

Pk - Peak detector

VERTICAL PEAK PLOT



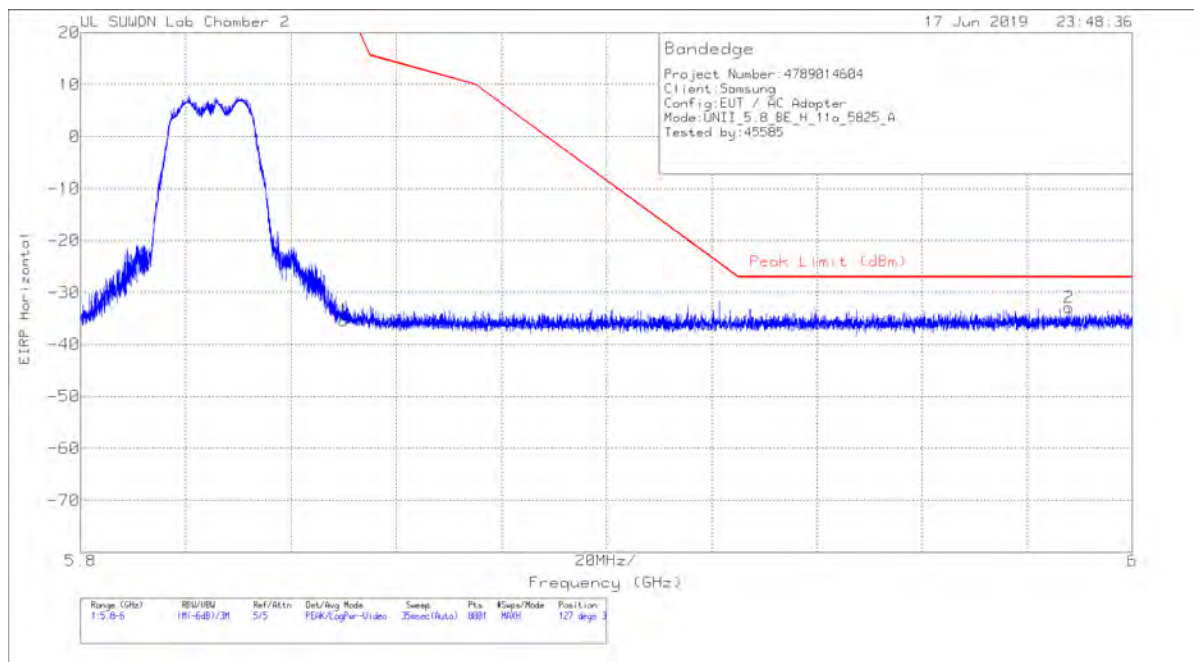
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-61.8	Pk	34.5	-15.6	11.8	0	-31.1	26.97	-58.07	193	164	V
2	5.645	-63.88	Pk	34.4	-15.7	11.8	0	-33.38	-27	-6.38	193	164	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT

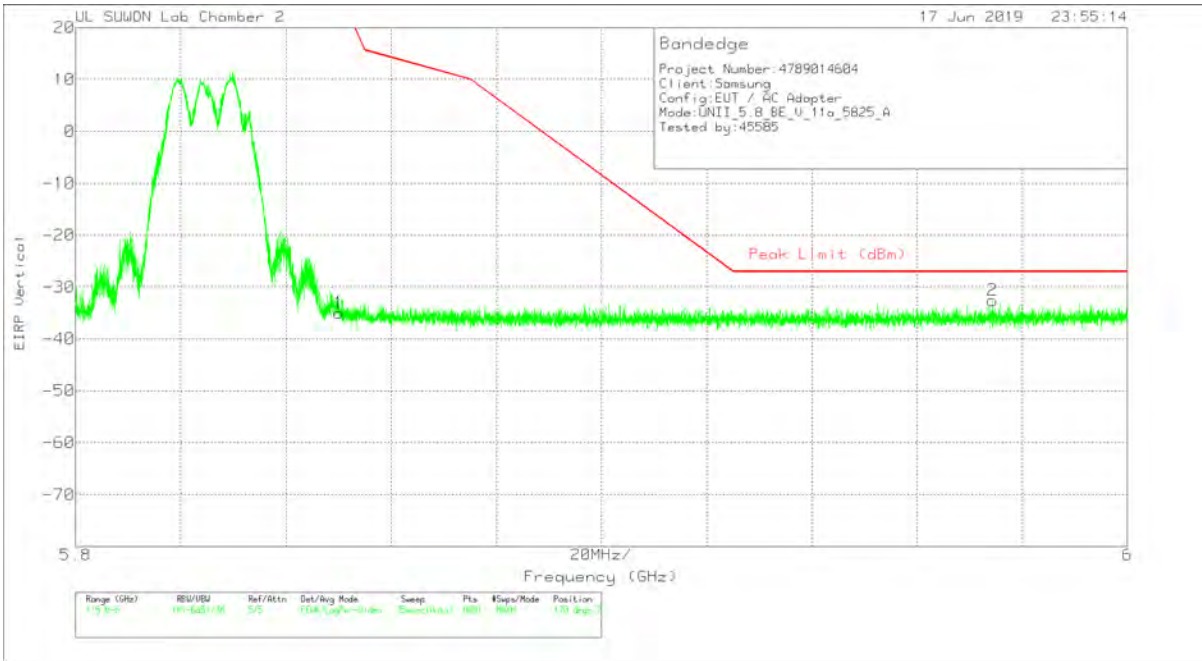


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.18	Pk	34.5	-15.5	11.8	0	-35.38	26.94	-62.32	127	331	H
2	5.988	-64.1	Pk	34.8	-15.4	11.8	0	-32.9	-27	-5.9	127	331	H

Pk - Peak detector

VERTICAL PEAK PLOT

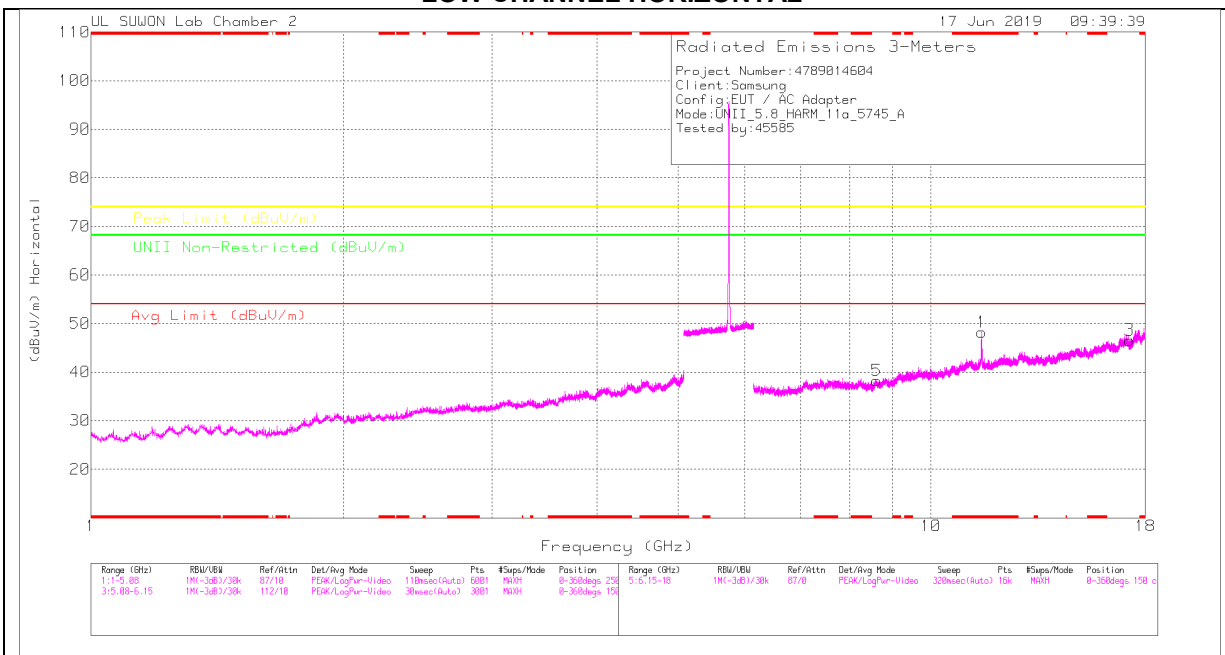


Trace Markers

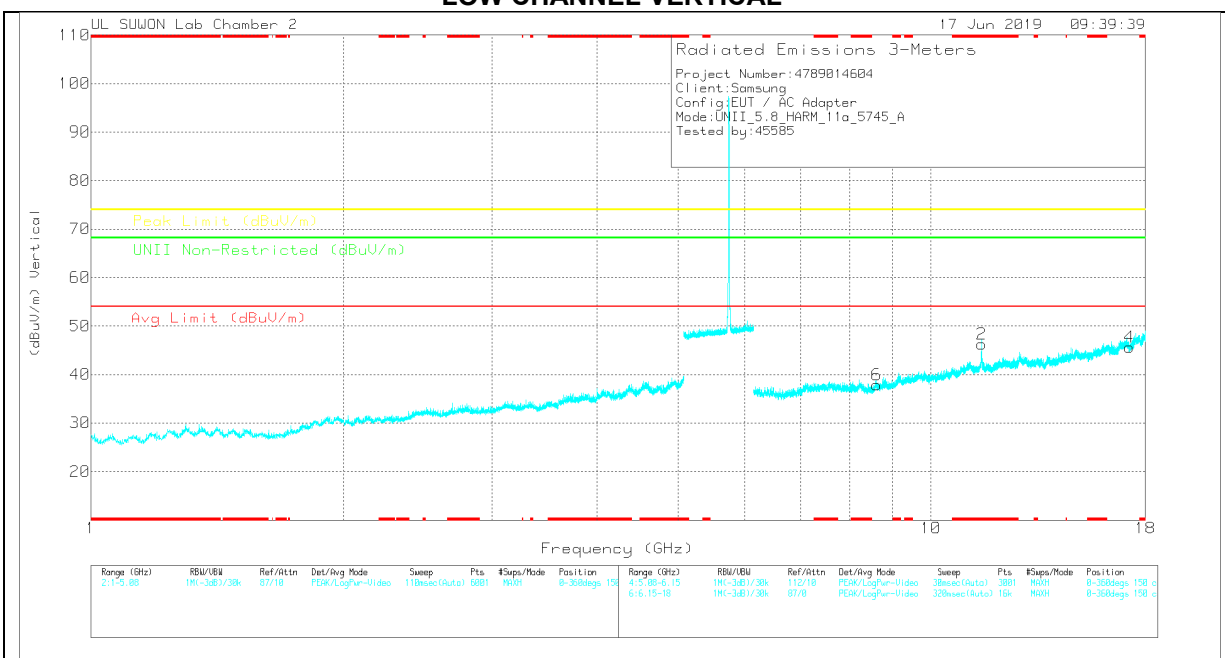
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.8	Pk	34.5	-15.5	11.8	0	-35	26.94	-61.94	170	206	V
2	5.974	-63.66	Pk	34.7	-15.4	11.8	0	-32.56	-27	-5.56	170	206	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.489	29.95	PK	38.3	-20	0	48.25	-	-	74	-25.75	-	-	0-360	150	H
3	17.234	24	PK	41.3	-18.7	0	46.6	-	-	-	-	68.2	-21.6	0-360	150	H
5	8.615	24.18	PK	36.1	-22	0	38.28	-	-	-	-	68.2	-29.92	0-360	250	H
2	* 11.489	27.97	PK	38.3	-20	0	46.27	-	-	74	-27.73	-	-	0-360	150	V
4	17.236	23.08	PK	41.3	-18.7	0	45.68	-	-	-	-	68.2	-22.52	0-360	250	V
6	8.617	23.77	PK	36.1	-22	0	37.87	-	-	-	-	68.2	-30.33	0-360	150	V

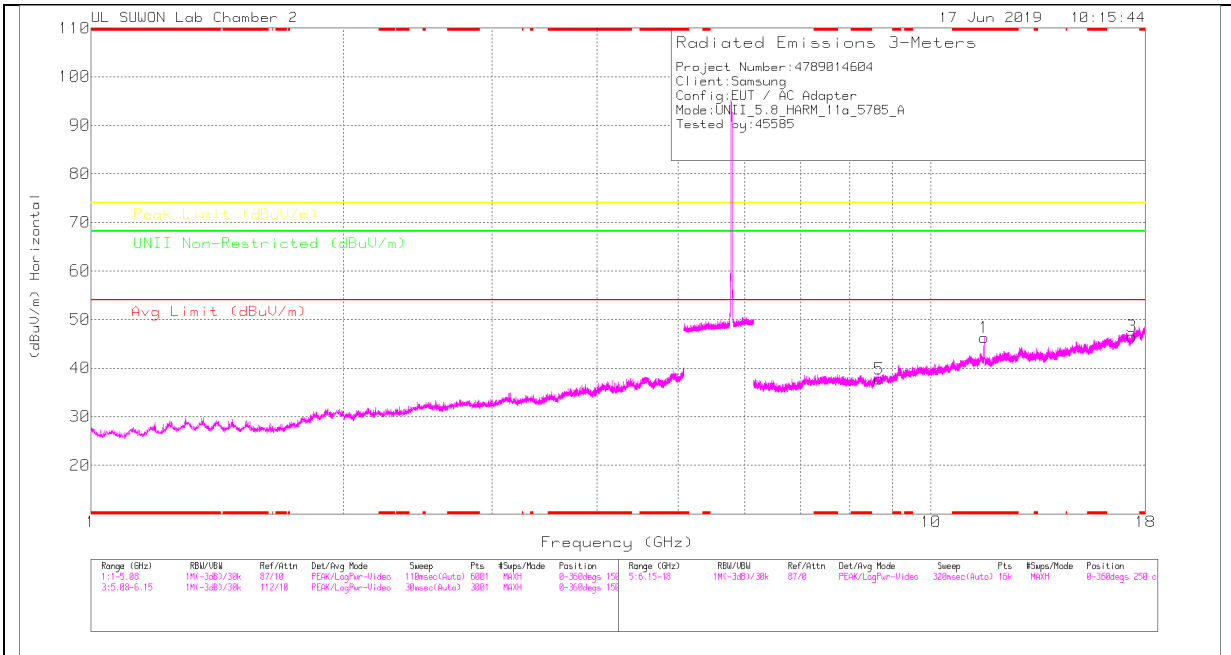
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

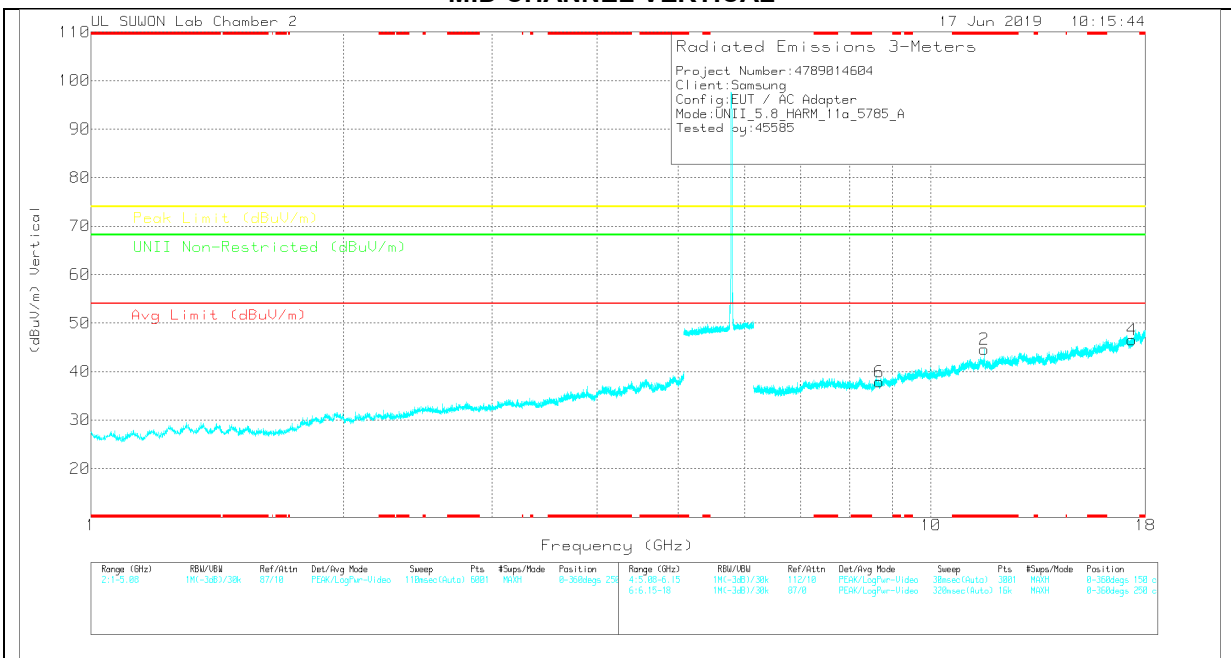
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.489	40.72	PK-U	38.3	-20	0	59.02	-	-	74	-14.98	-	-	209	233	H
* 11.488	28.42	ADR	38.3	-20	0	46.72	54	-7.28	-	-	-	-	209	233	H
* 11.488	40.31	PK-U	38.3	-20	0	58.61	-	-	74	-15.39	-	-	135	176	V
* 11.488	27.7	ADR	38.3	-20	0	46	54	-8	-	-	-	-	135	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

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 11.568	27.84	PK	38.4	-20	0	46.24	-	-	74	-27.76	-	-	0-360	250	H
3	17.359	24.03	PK	41.3	-18.8	0	46.53	-	-	-	-	68.2	-21.67	0-360	150	H
5	8.675	24.42	PK	36.2	-22.9	0	37.72	-	-	-	-	68.2	-30.48	0-360	250	H
2	* 11.568	26.21	PK	38.4	-20	0	44.61	-	-	74	-29.39	-	-	0-360	150	V
4	17.356	24.12	PK	41.3	-18.9	0	46.52	-	-	-	-	68.2	-21.68	0-360	150	V
6	8.673	24.51	PK	36.2	-22.8	0	37.91	-	-	-	-	68.2	-30.29	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

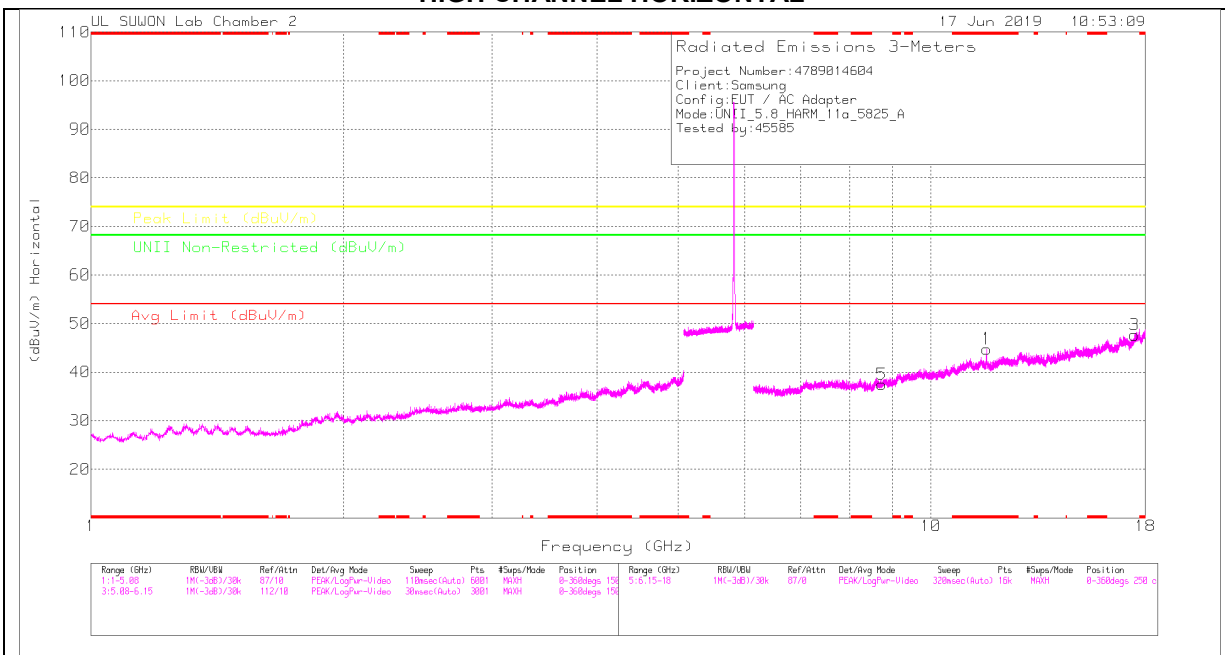
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.569	38.91	PK-U	38.4	-20	0	57.31	-	-	74	-16.69	-	-	205	165	H
* 11.569	27.01	ADR	38.4	-20	0	45.41	54	-8.59	-	-	-	-	205	165	H
* 11.569	38.03	PK-U	38.4	-20	0	56.43	-	-	74	-17.57	-	-	140	167	V
* 11.568	26.21	ADR	38.4	-20	0	44.61	54	-9.39	-	-	-	-	140	167	V

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

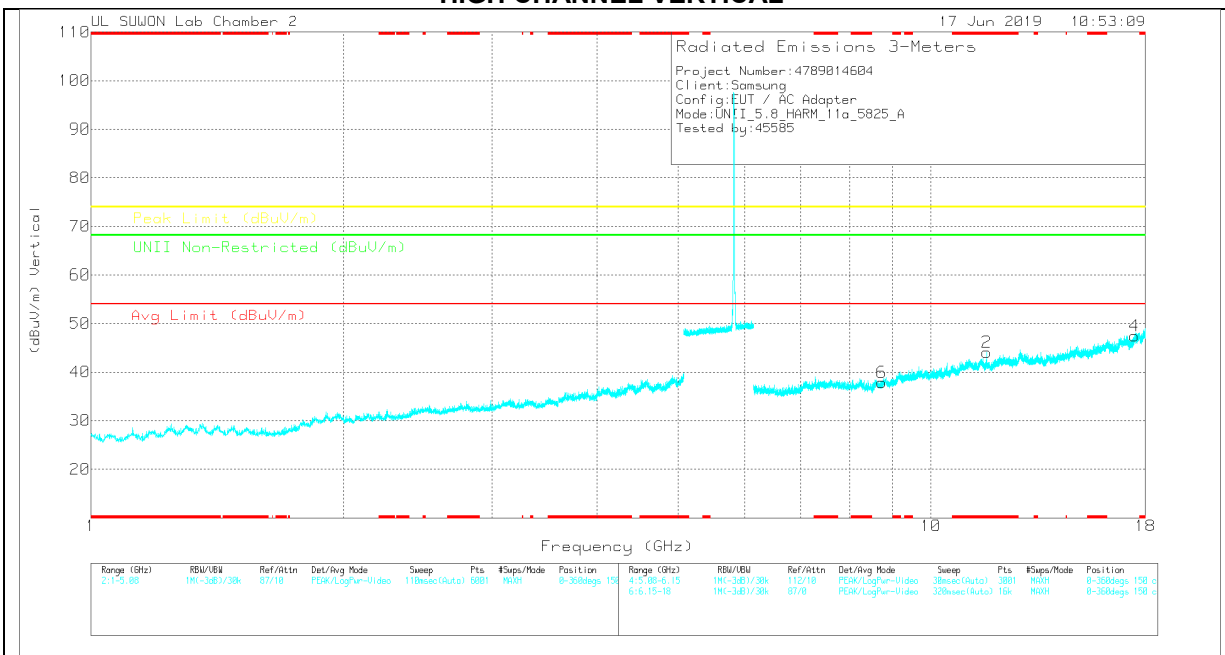
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.649	26.39	PK	38.4	-20	0	44.79	-	-	74	-29.21	-	-	0-360	250	H
3	17.482	24.44	PK	41.4	-18.2	0	47.64	-	-	-	-	68.2	-20.56	0-360	250	H
5	8.733	24.62	PK	36.3	-23.4	0	37.52	-	-	-	-	68.2	-30.68	0-360	150	H
2	* 11.648	25.64	PK	38.4	-20	0	44.04	-	-	74	-29.96	-	-	0-360	150	V
4	17.476	24.23	PK	41.4	-18.2	0	47.43	-	-	-	-	68.2	-20.77	0-360	250	V
6	8.738	25.08	PK	36.3	-23.5	0	37.88	-	-	-	-	68.2	-30.32	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

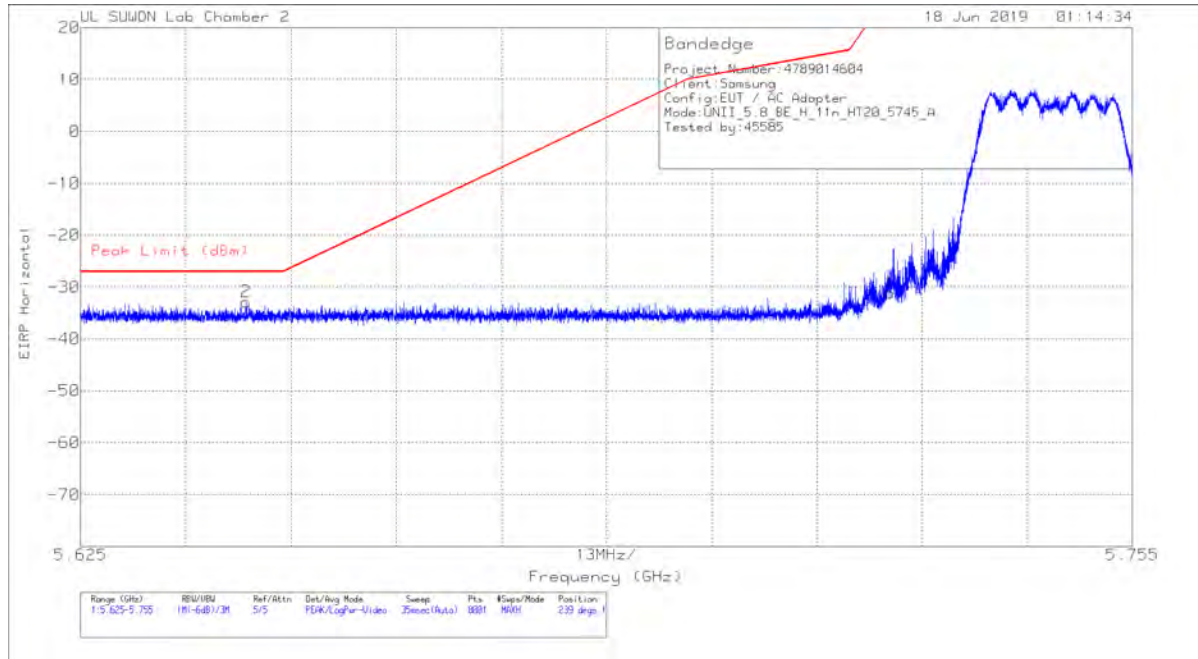
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.653	37.66	PK-U	38.4	-19.9	0	56.16	-	-	74	-17.84	-	-	249	152	H
* 11.649	25.66	ADR	38.4	-20	0	44.06	54	-9.94	-	-	-	-	249	152	H
* 11.653	36.58	PK-U	38.4	-19.9	0	55.08	-	-	74	-18.92	-	-	150	180	V
* 11.648	24.31	ADR	38.4	-20	0	42.71	54	-11.29	-	-	-	-	150	180	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

11.4.2.TX ABOVE 1GHz 802.11n HT20 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT

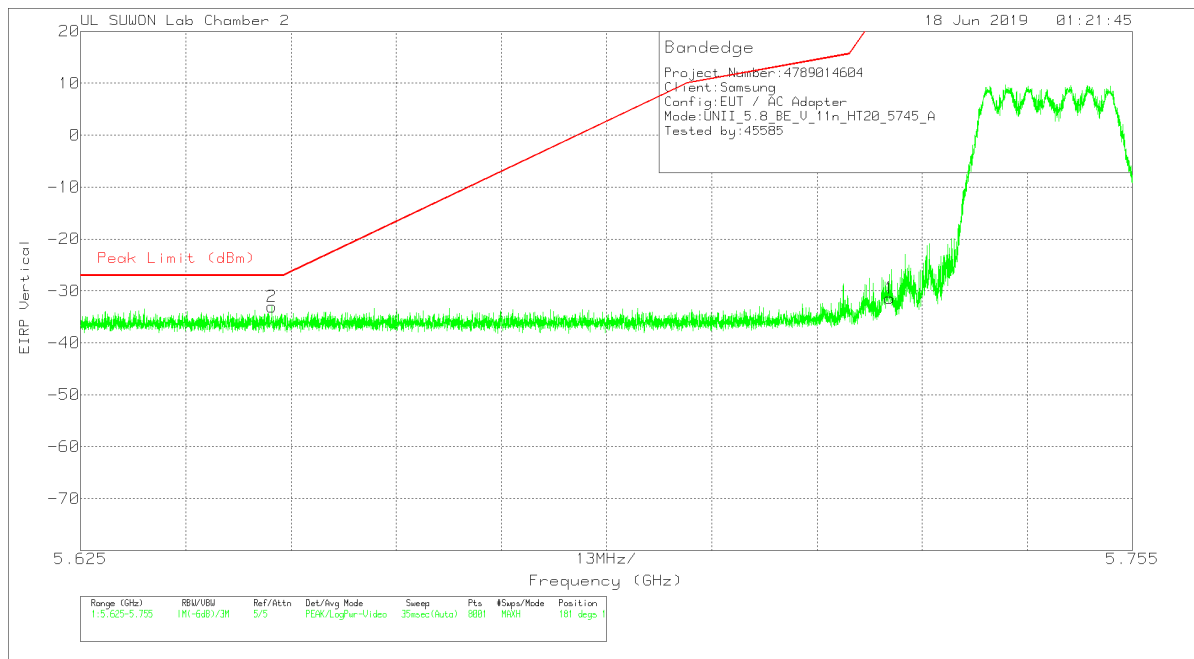


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-61.82	Pk	34.5	-15.6	11.8	0	-31.12	26.97	-58.09	239	102	H
2	5.645	-63.32	Pk	34.4	-15.7	11.8	0	-32.82	-27	-5.82	239	102	H

Pk - Peak detector

VERTICAL PEAK PLOT

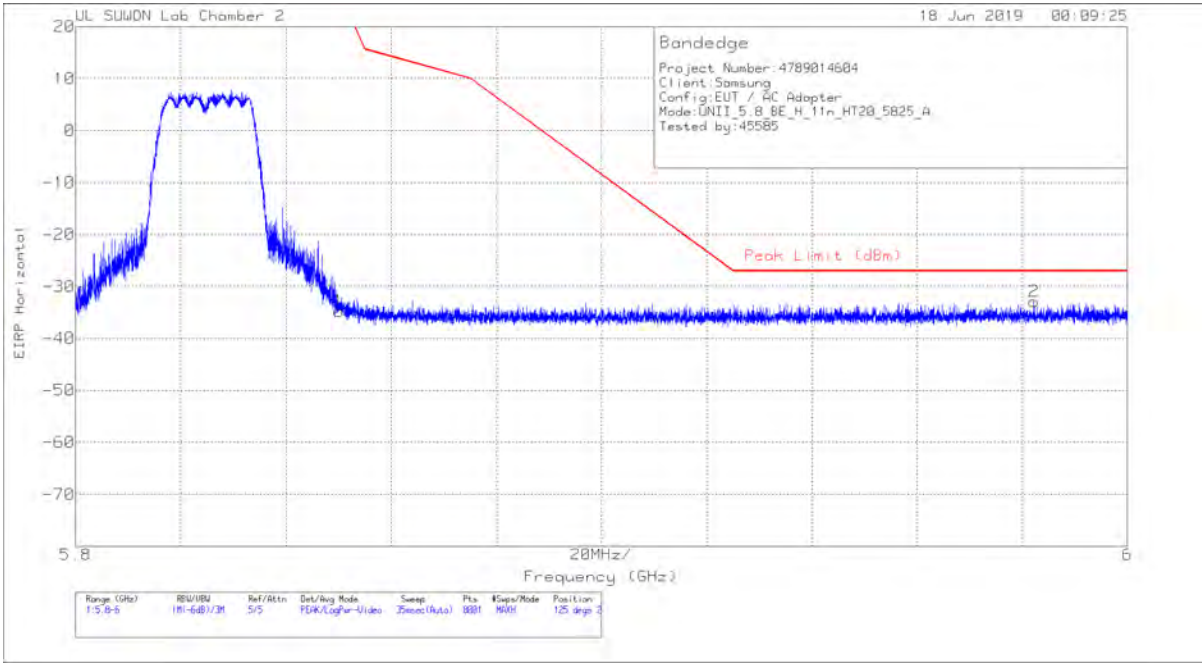


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-62.09	Pk		-15.6	11.8	0	-31.39	26.97	-58.36	181	172	V
2	5.649	-63.53	Pk		-15.7	11.8	0	-33.03	-27	-6.03	181	172	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)
HORIZONTAL PEAK AND AVERAGE DATA

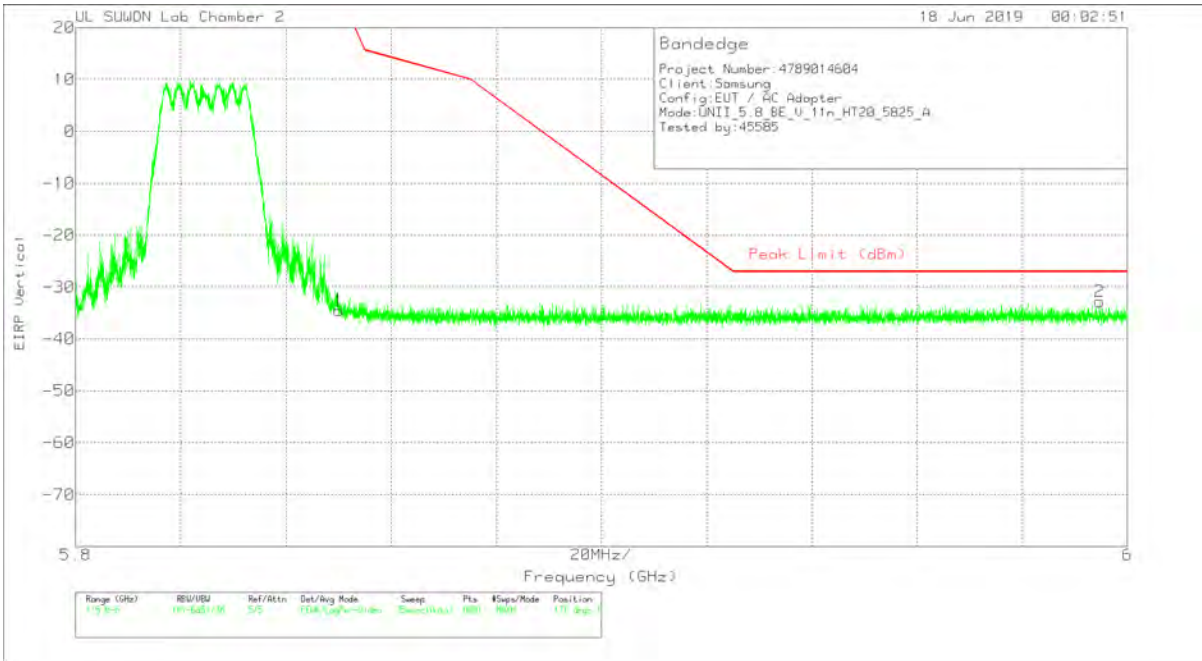


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.53	Pk	34.5	-15.5	11.8	0	-34.73	26.94	-61.67	125	289	H
2	5.982	-64	Pk	34.7	-15.4	11.8	0	-32.9	-27	-5.9	125	289	H

Pk - Peak detector

VERTICAL PEAK PLOT

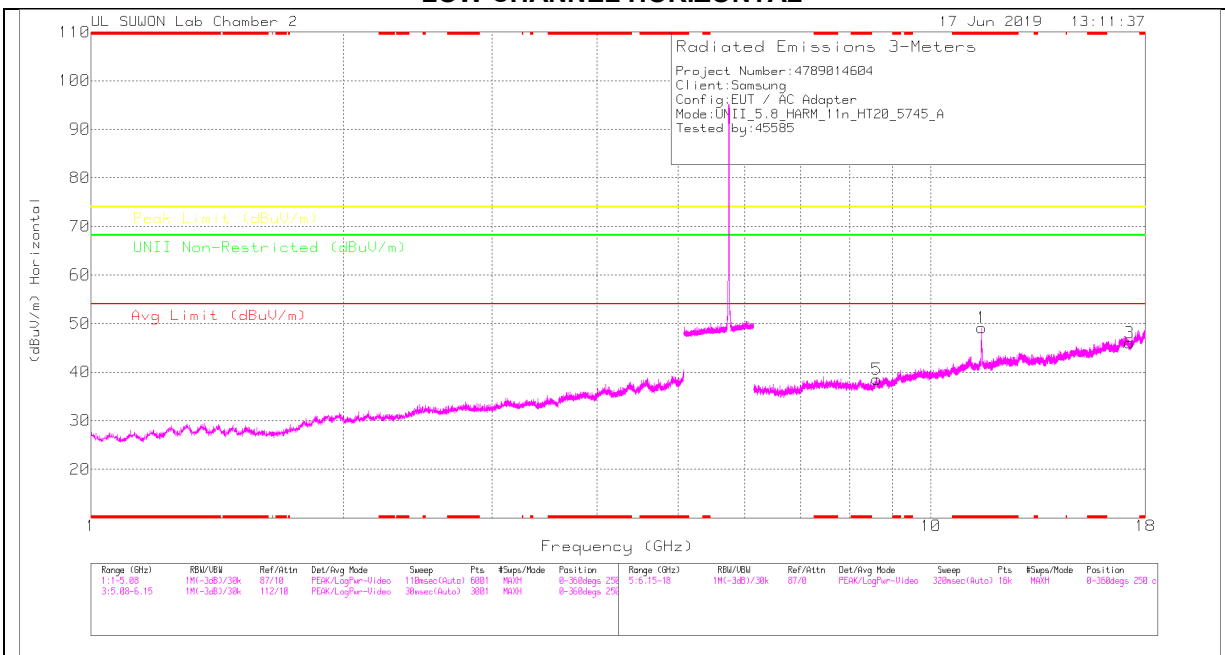


Trace Markers

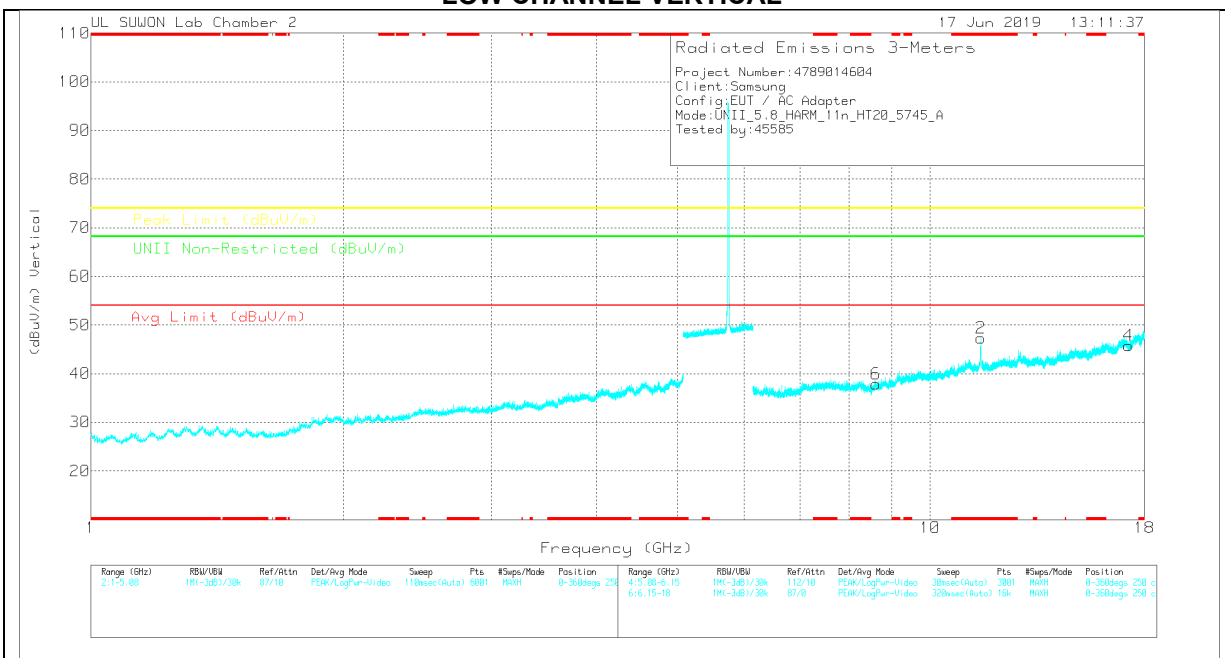
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-65.32	Pk	34.5	-15.5	11.8	0	-34.52	26.94	-61.46	171	157	V
2	5.995	-63.99	Pk	34.8	-15.4	11.8	0	-32.79	-27	-5.79	171	157	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.487	30.77	PK	38.3	-20	0	49.07	-	-	74	-24.93	-	-	0-360	250	H
3	17.234	23.41	PK	41.3	-18.7	0	46.01	-	-	-	-	68.2	-22.19	0-360	150	H
5	8.621	24.41	PK	36.2	-22.1	0	38.51	-	-	-	-	68.2	-29.69	0-360	250	H
2	* 11.492	28.99	PK	38.3	-20	0	47.29	-	-	74	-26.71	-	-	0-360	150	V
4	17.234	23.14	PK	41.3	-18.7	0	45.74	-	-	-	-	68.2	-22.46	0-360	150	V
6	8.616	23.77	PK	36.1	-22	0	37.87	-	-	-	-	68.2	-30.33	0-360	150	V

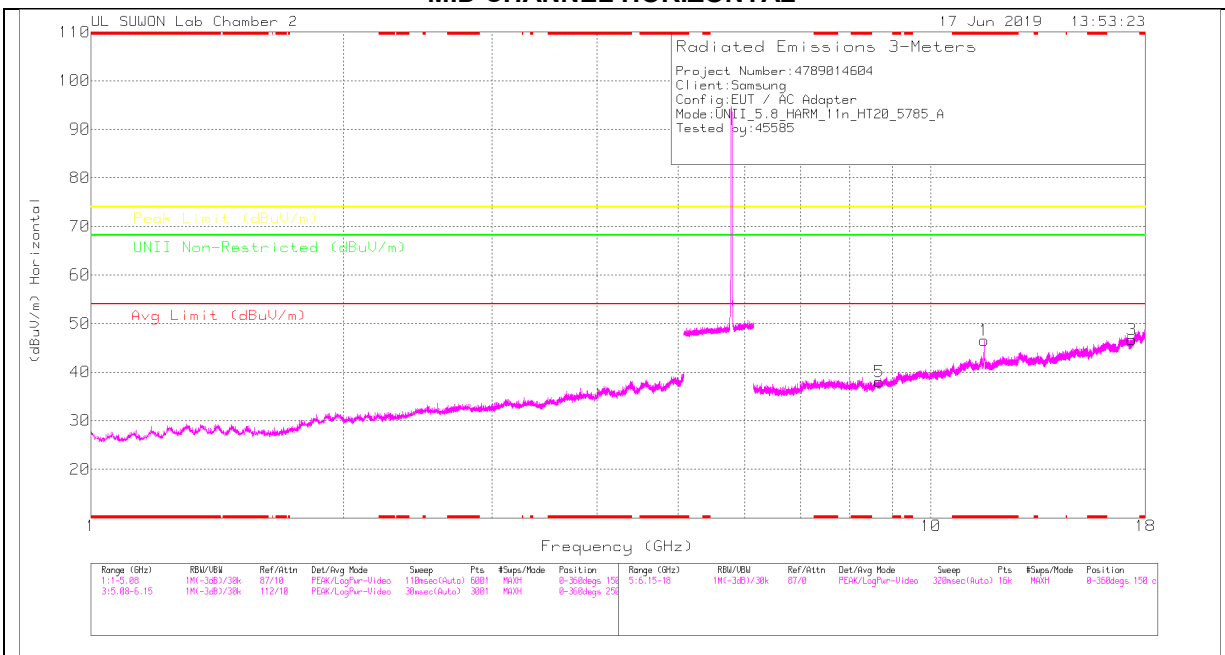
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

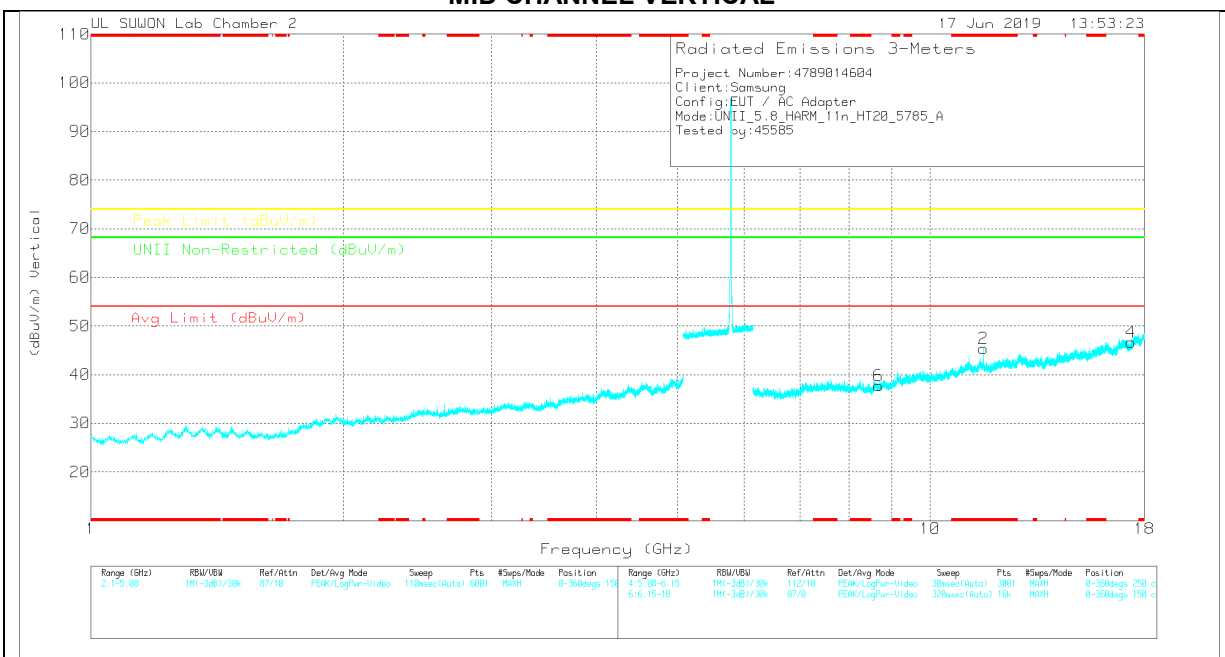
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.489	40.01	PK-U	38.3	-19.9	0	58.41	-	-	74	-15.59	-	-	110	168	H
* 11.492	27.8	ADR	38.3	-20	0	46.1	54	-7.9	-	-	-	-	110	168	H
* 11.492	40.31	PK-U	38.3	-20	0	58.61	-	-	74	-15.39	-	-	147	165	V
* 11.489	27.46	ADR	38.3	-19.9	0	45.86	54	-8.14	-	-	-	-	147	165	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

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 11.564	28.05	PK	38.4	-19.9	0	46.55	-	-	74	-27.45	-	-	0-360	250	H
3	17.356	24.24	PK	41.3	-18.9	0	46.64	-	-	-	-	68.2	-21.56	0-360	250	H
5	8.673	24.64	PK	36.2	-22.8	0	38.04	-	-	-	-	68.2	-30.16	0-360	250	H
2	* 11.574	27.02	PK	38.4	-20	0	45.42	-	-	74	-28.58	-	-	0-360	150	V
4	17.355	24.17	PK	41.3	-18.8	0	46.67	-	-	-	-	68.2	-21.53	0-360	250	V
6	8.671	24.28	PK	36.2	-22.7	0	37.78	-	-	-	-	68.2	-30.42	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

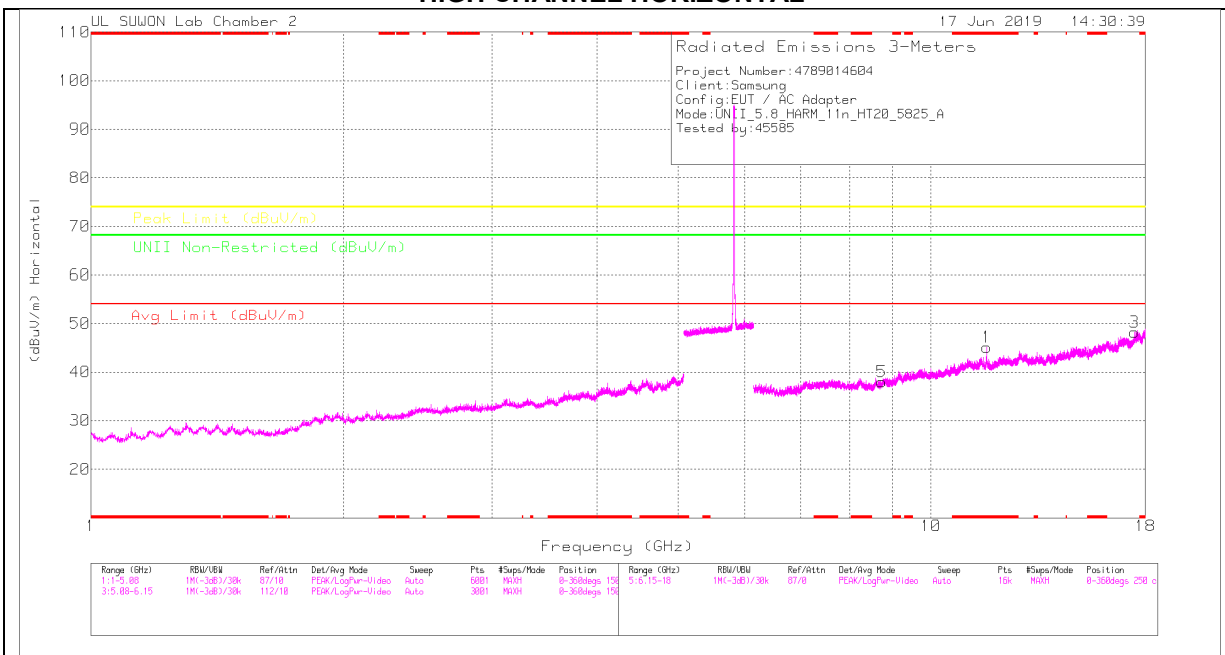
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.569	38.33	PK-U	38.4	-20	0	56.73	-	-	74	-17.27	-	-	251	167	H
* 11.57	26.06	ADR	38.4	-20.1	0	44.36	54	-9.64	-	-	-	-	251	167	H
* 11.569	38.32	PK-U	38.4	-20	0	56.72	-	-	74	-17.28	-	-	151	163	V
* 11.569	25.93	ADR	38.4	-20	0	44.33	54	-9.67	-	-	-	-	151	163	V

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

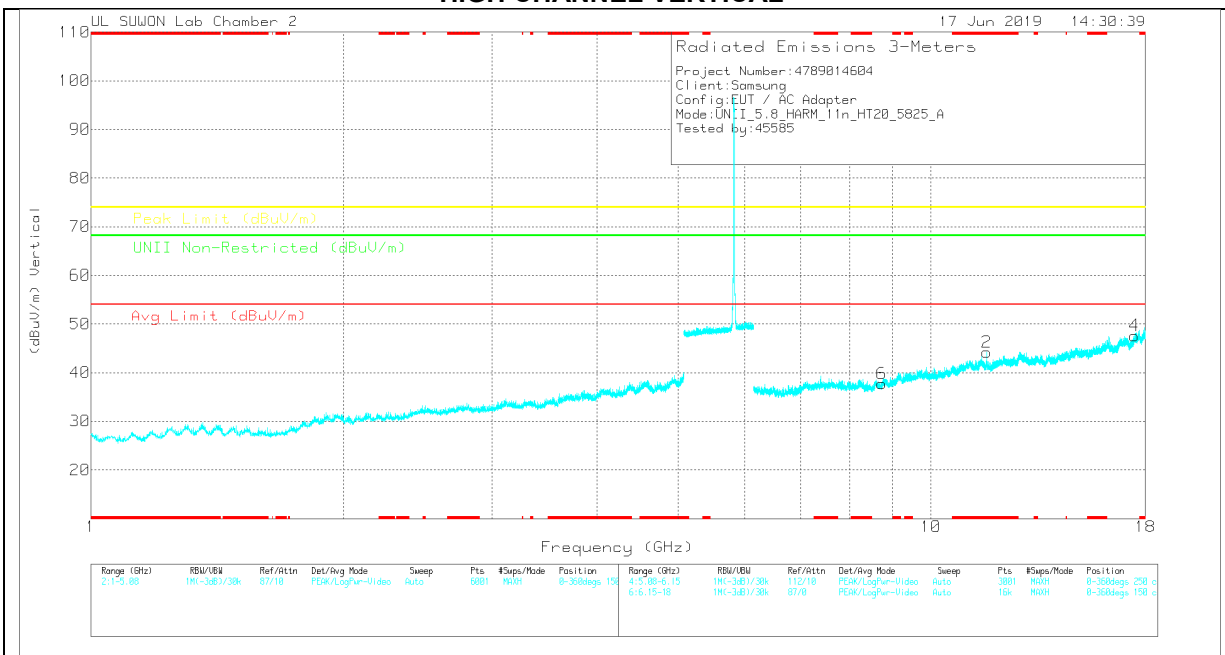
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.65	26.73	PK	38.4	-20	0	45.13	-	-	74	-28.87	-	-	0-360	150	H
3	17.482	24.98	PK	41.4	-18.2	0	48.18	-	-	-	-	68.2	-20.02	0-360	150	H
5	8.738	25.1	PK	36.3	-23.4	0	38	-	-	-	-	68.2	-30.2	0-360	250	H
2	* 11.644	25.84	PK	38.4	-20	0	44.24	-	-	74	-29.76	-	-	0-360	150	V
4	17.475	24.43	PK	41.4	-18.2	0	47.63	-	-	-	-	68.2	-20.57	0-360	250	V
6	8.736	24.96	PK	36.3	-23.5	0	37.76	-	-	-	-	68.2	-30.44	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

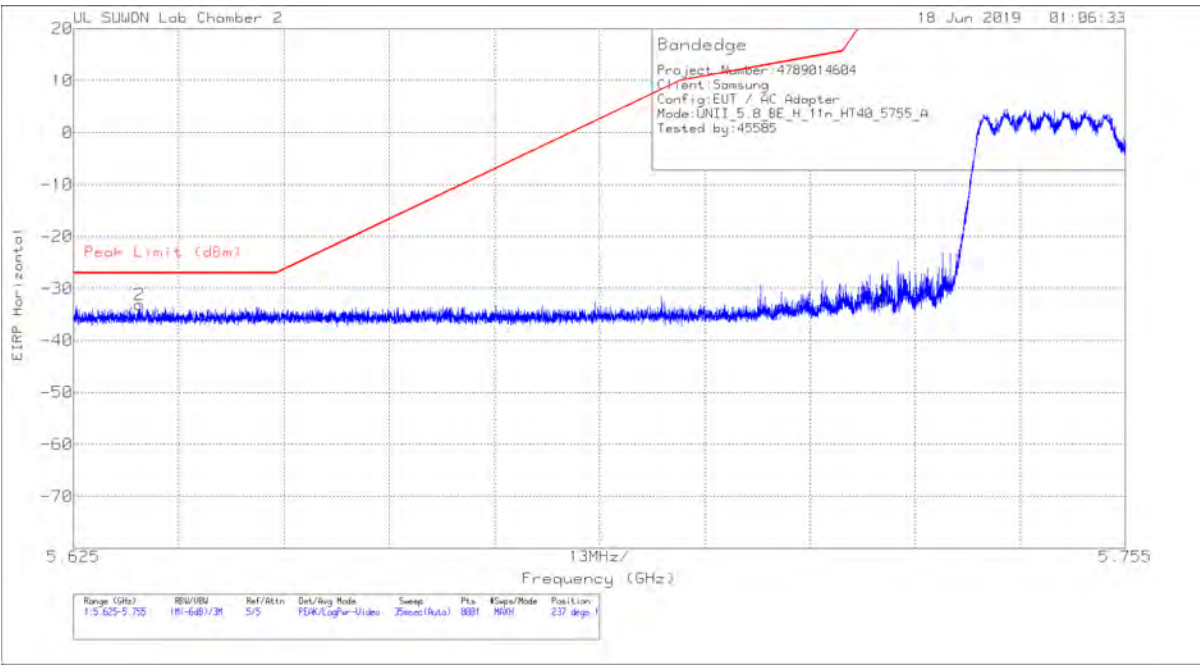
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.652	38.38	PK-U	38.4	-20	0	56.78	-	-	74	-17.22	-	-	249	150	H
* 11.649	25.44	ADR	38.4	-20	0	43.84	54	-10.16	-	-	-	-	249	150	H
* 11.646	36.94	PK-U	38.4	-19.9	0	55.44	-	-	74	-18.56	-	-	141	167	V
* 11.649	24.52	ADR	38.4	-20	0	42.92	54	-11.08	-	-	-	-	141	167	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

11.4.3.TX ABOVE 1GHz 802.11n HT40 2Tx CDD MODE IN THE 5.8GHz BAND
BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT

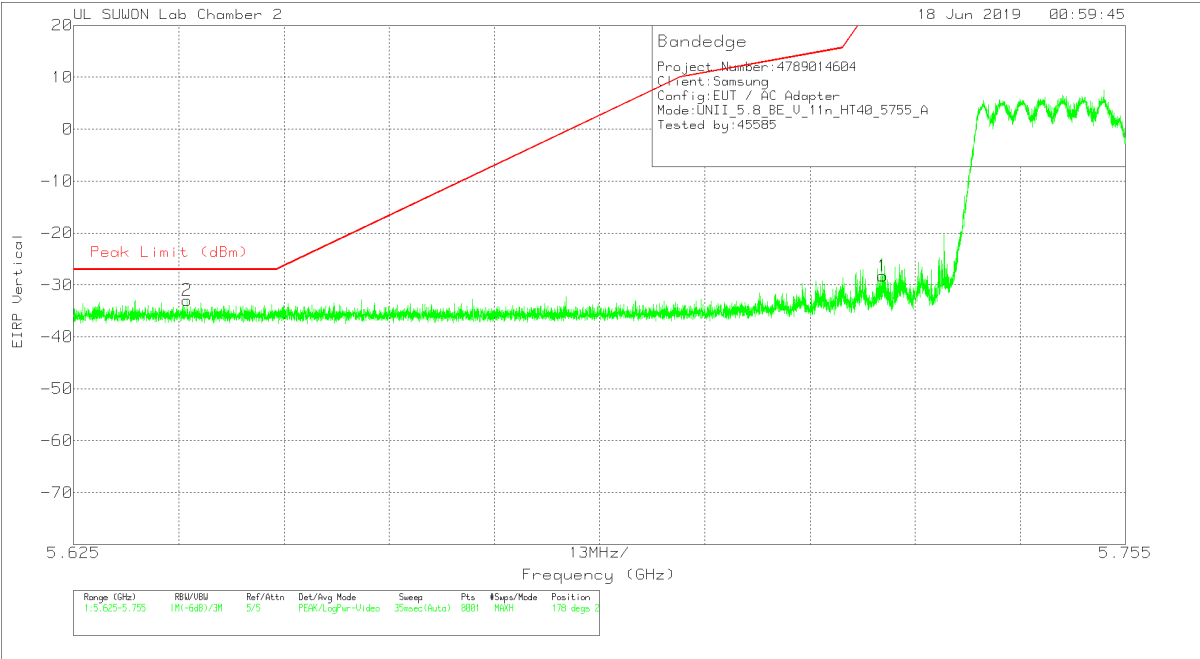


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-63.23	Pk	34.5	-15.6	11.8	0	-32.53	26.97	-59.5	237	103	H
2	5.633	-63.63	Pk	34.4	-15.7	11.8	0	-33.13	-27	-6.13	237	103	H

Pk - Peak detector

VERTICAL PEAK PLOT



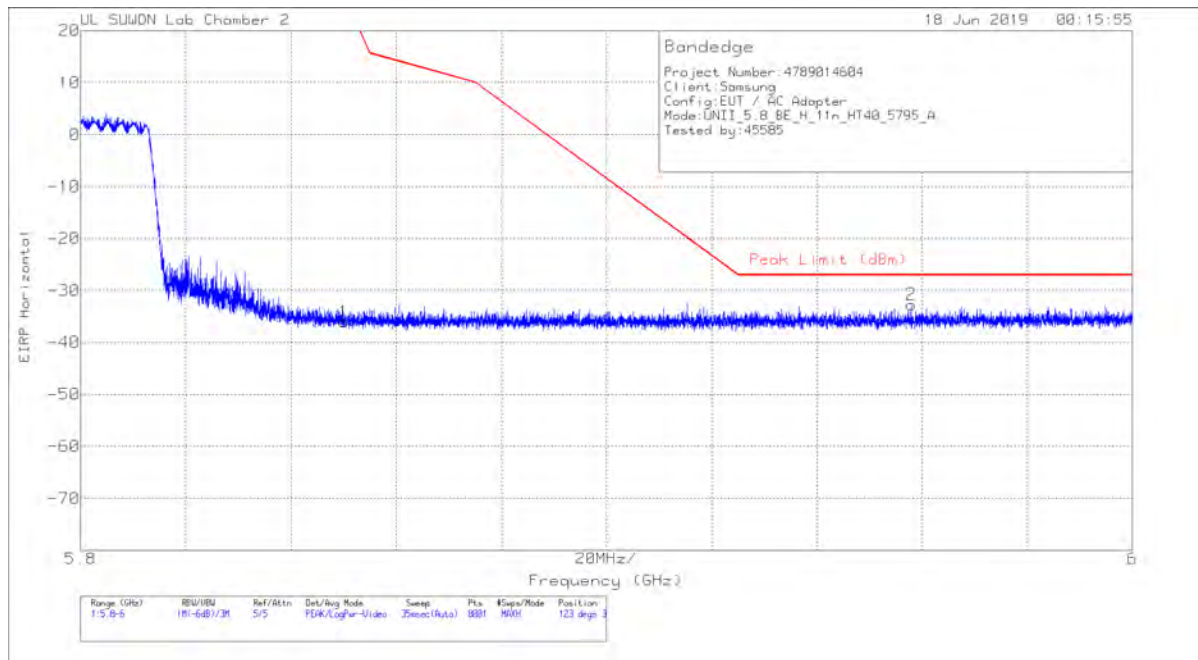
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-58.97	Pk	34.5	-15.6	11.8	0	-28.27	26.97	-55.24	178	213	V
2	5.639	-63.46	Pk	34.4	-15.7	11.8	0	-32.96	-27	-5.96	178	213	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT

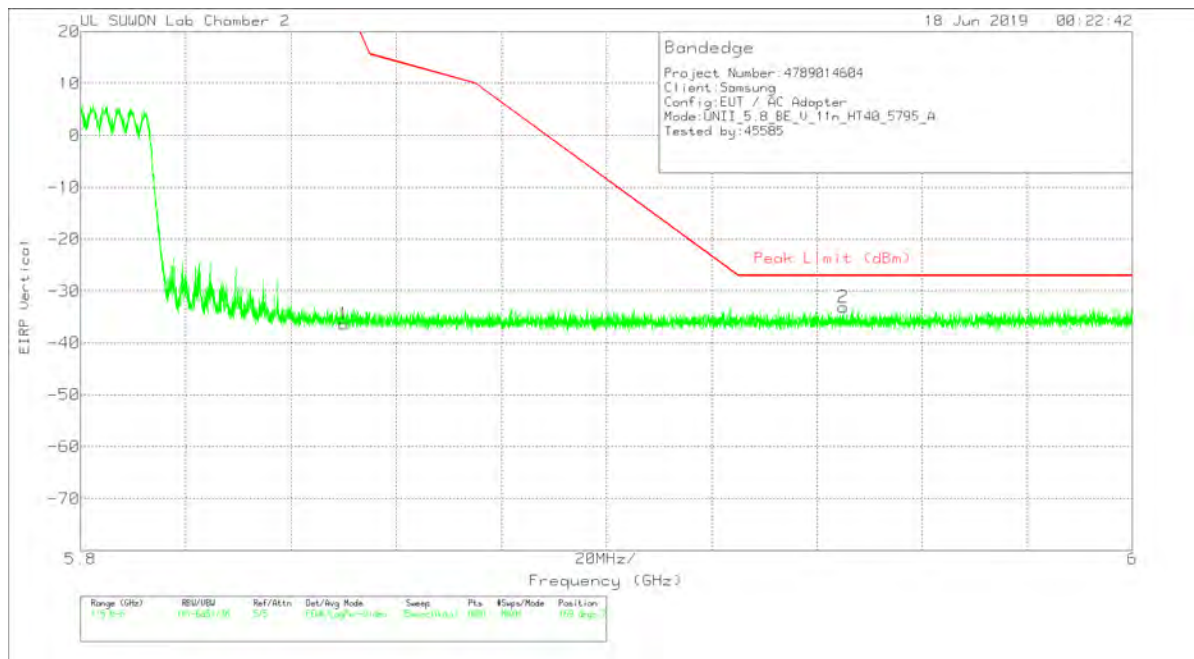


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.82	Pk	34.5	-15.5	11.8	0	-36.02	26.94	-62.96	123	333	H
2	5.958	-63.61	Pk	34.6	-15.5	11.8	0	-32.71	-27	-5.71	123	333	H

Pk - Peak detector

VERTICAL PEAK PLOT

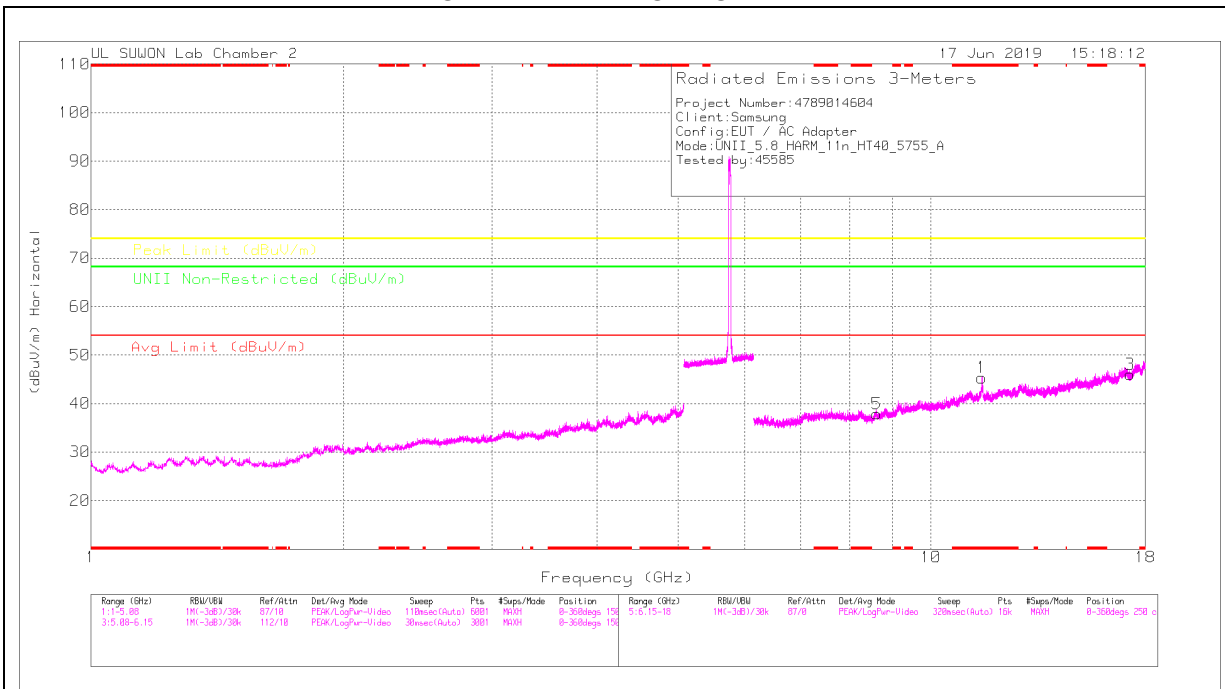


Trace Markers

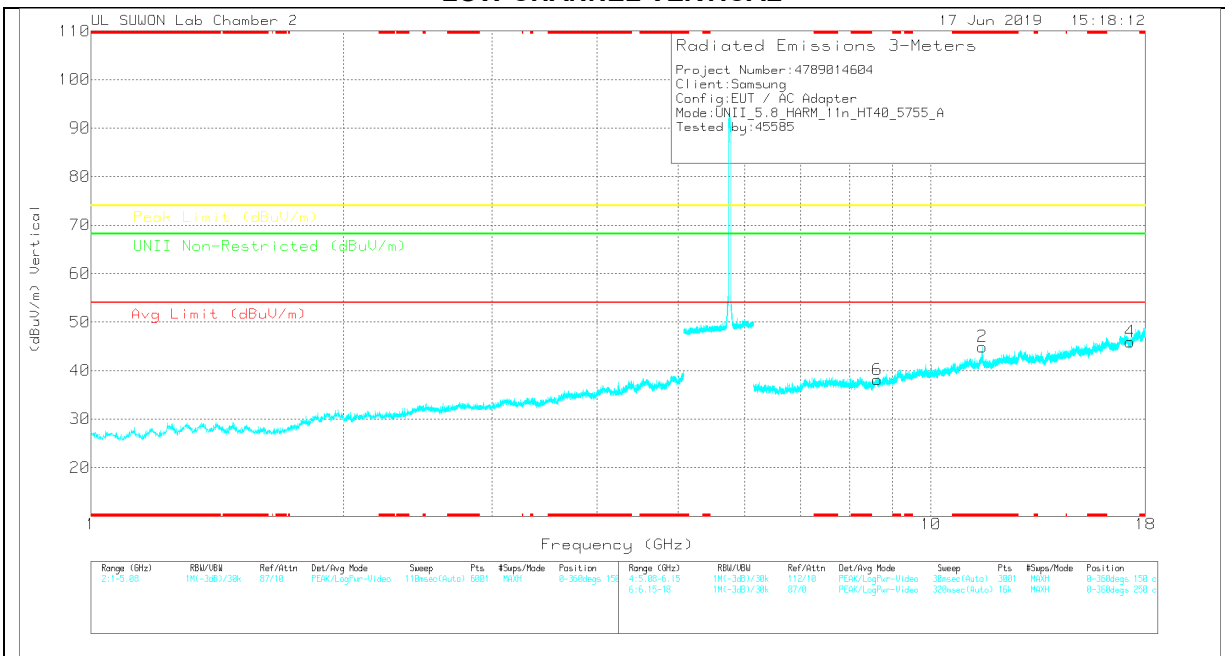
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.12	Pk	34.5	-15.5	11.8	0	-36.32	26.94	-63.26	169	206	V
2	5.945	-63.96	Pk	34.6	-15.5	11.8	0	-33.06	-27	-6.06	169	206	V

Pk - Peak detector

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.5	26.91	PK	38.3	-19.9	0	45.31	-	-	74	-28.69	-	-	0-360	250	H
3	17.268	23.67	PK	41.3	-18.9	0	46.07	-	-	-	-	68.2	-22.13	0-360	250	H
5	8.623	23.82	PK	36.2	-22.1	0	37.92	-	-	-	-	68.2	-30.28	0-360	150	H
2	* 11.504	26.52	PK	38.3	-19.9	0	44.92	-	-	74	-29.08	-	-	0-360	250	V
4	17.266	23.45	PK	41.3	-18.8	0	45.95	-	-	-	-	68.2	-22.25	0-360	150	V
6	8.626	24.17	PK	36.2	-22.2	0	38.17	-	-	-	-	68.2	-30.03	0-360	150	V

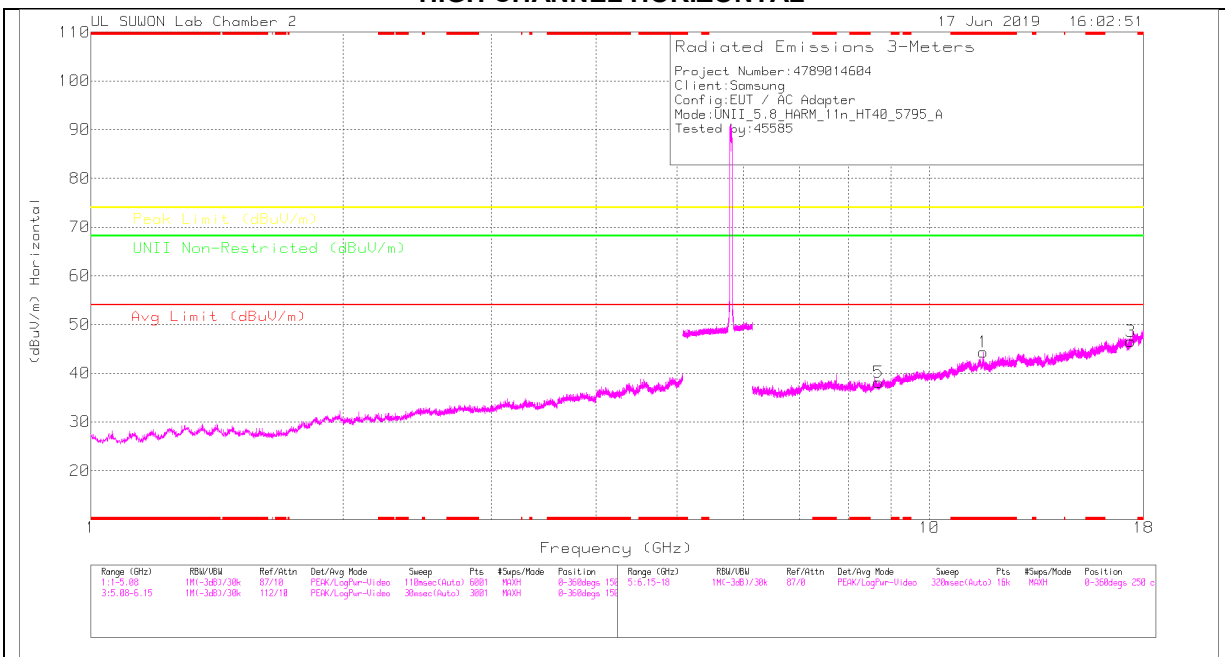
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

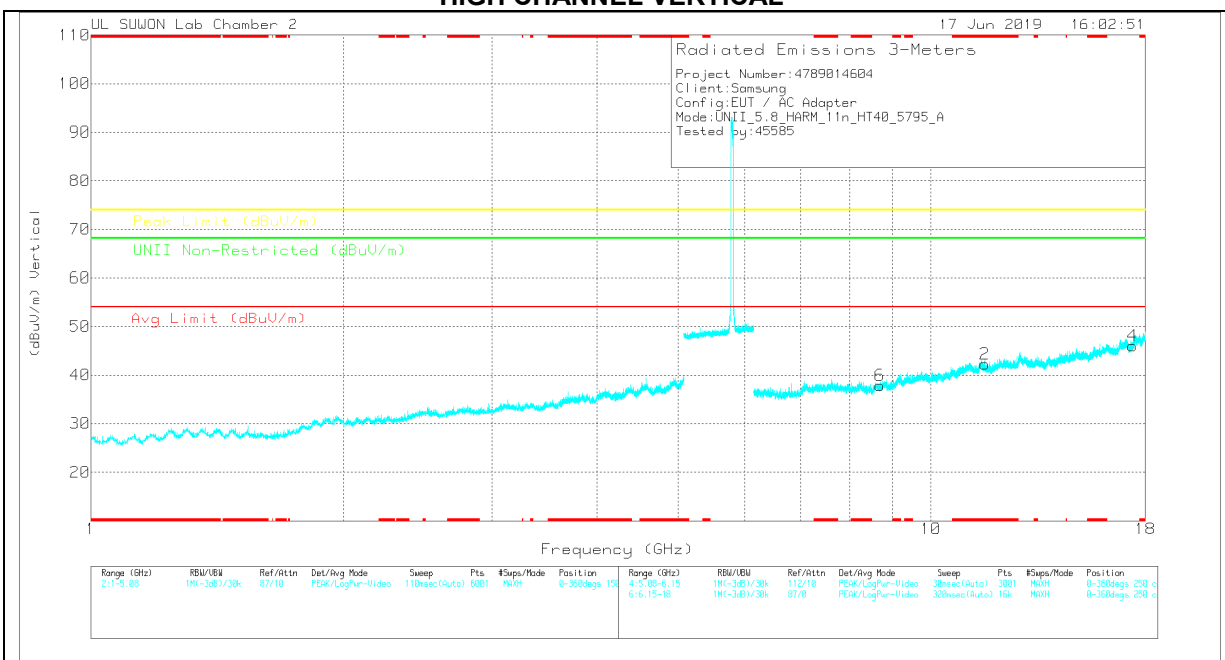
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.51	37.38	PK-U	38.3	-19.9	0	55.78	-	-	74	-18.22	-	-	252	140	H
* 11.509	25.33	ADR	38.3	-19.9	0	43.73	54	-10.27	-	-	-	-	252	140	H
* 11.502	37.72	PK-U	38.3	-19.8	0	56.22	-	-	74	-17.78	-	-	140	173	V
* 11.509	24.94	ADR	38.3	-19.9	0	43.34	54	-10.66	-	-	-	-	140	173	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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 11.588	26.13	PK	38.4	-20.2	0	44.33	-	-	74	-29.67	-	-	0-360	150	H
3	17.38	23.91	PK	41.4	-18.8	0	46.51	-	-	-	-	68.2	-21.69	0-360	150	H
5	8.697	25.1	PK	36.2	-23.2	0	38.1	-	-	-	-	68.2	-30.1	0-360	150	H
2	* 11.59	24.01	PK	38.4	-20.2	0	42.21	-	-	74	-31.79	-	-	0-360	250	V
4	17.39	23.3	PK	41.4	-18.7	0	46	-	-	-	-	68.2	-22.2	0-360	250	V
6	8.69	24.84	PK	36.2	-23.2	0	37.84	-	-	-	-	68.2	-30.36	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

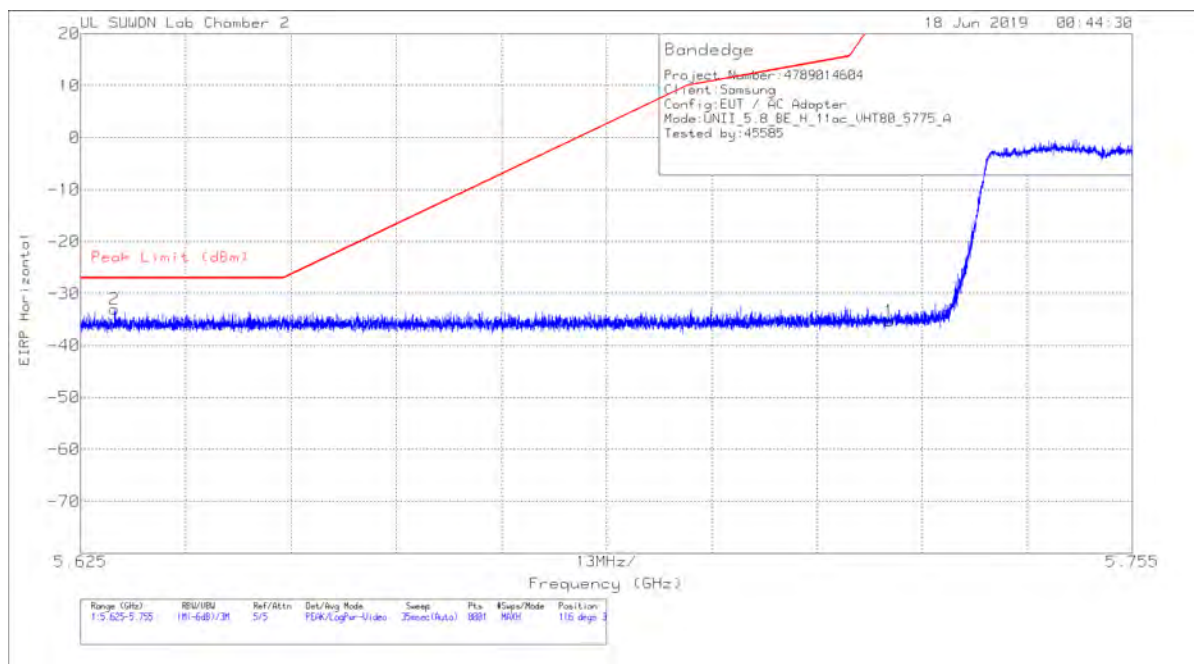
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.59	36.96	PK-U	38.4	-20.2	0	55.16	-	-	74	-18.84	-	-	250	147	H
* 11.589	24.58	ADR	38.4	-20.2	0	42.78	54	-11.22	-	-	-	-	250	147	H
* 11.584	36.65	PK-U	38.4	-20.2	0	54.85	-	-	74	-19.15	-	-	150	168	V
* 11.586	23.85	ADR	38.4	-20.2	0	42.05	54	-11.95	-	-	-	-	150	168	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

11.4.4. TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (Lower side)

HORIZONTAL PEAK PLOT

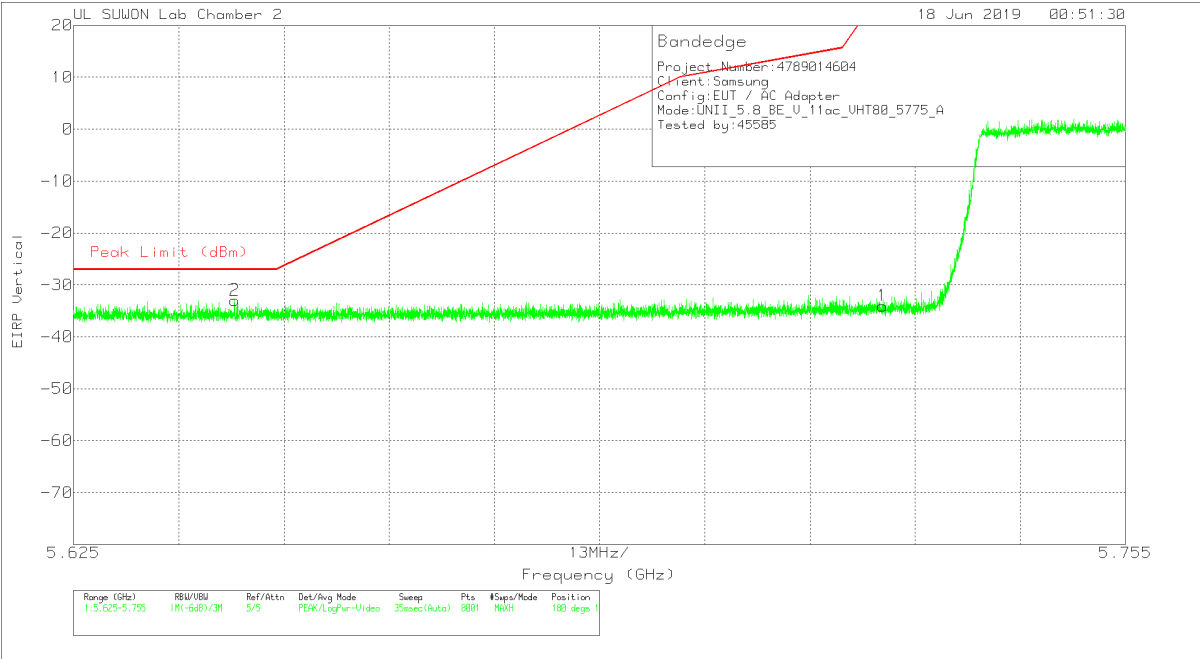


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-65.97	Pk	34.5	-15.6	11.8	0	-35.27	26.97	-62.24	116	344	H
2	5.629	-63.47	Pk	34.4	-15.7	11.8	0	-32.97	-27	-5.97	116	344	H

Pk - Peak detector

VERTICAL PEAK PLOT



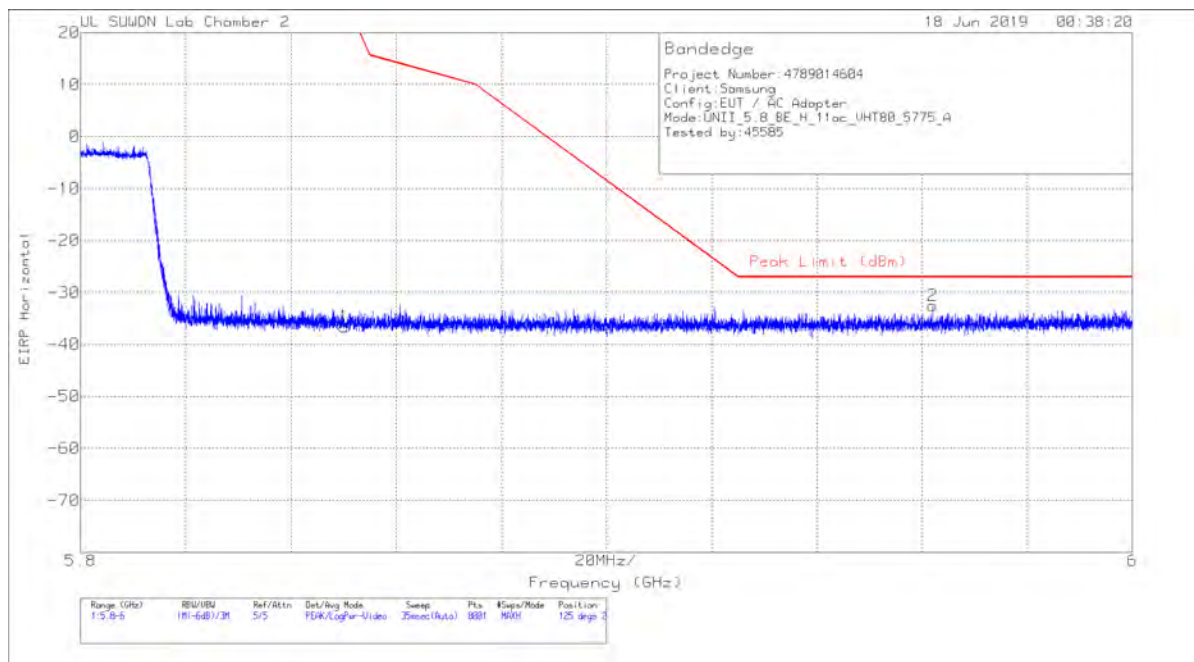
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-64.72	Pk	34.5	-15.6	11.8	0	-34.02	26.97	-60.99	180	183	V
2	5.645	-63.46	Pk	34.4	-15.7	11.8	0	-32.96	-27	-5.96	180	183	V

Pk - Peak detector

BANDEDGE (Upper side)

HORIZONTAL PEAK PLOT

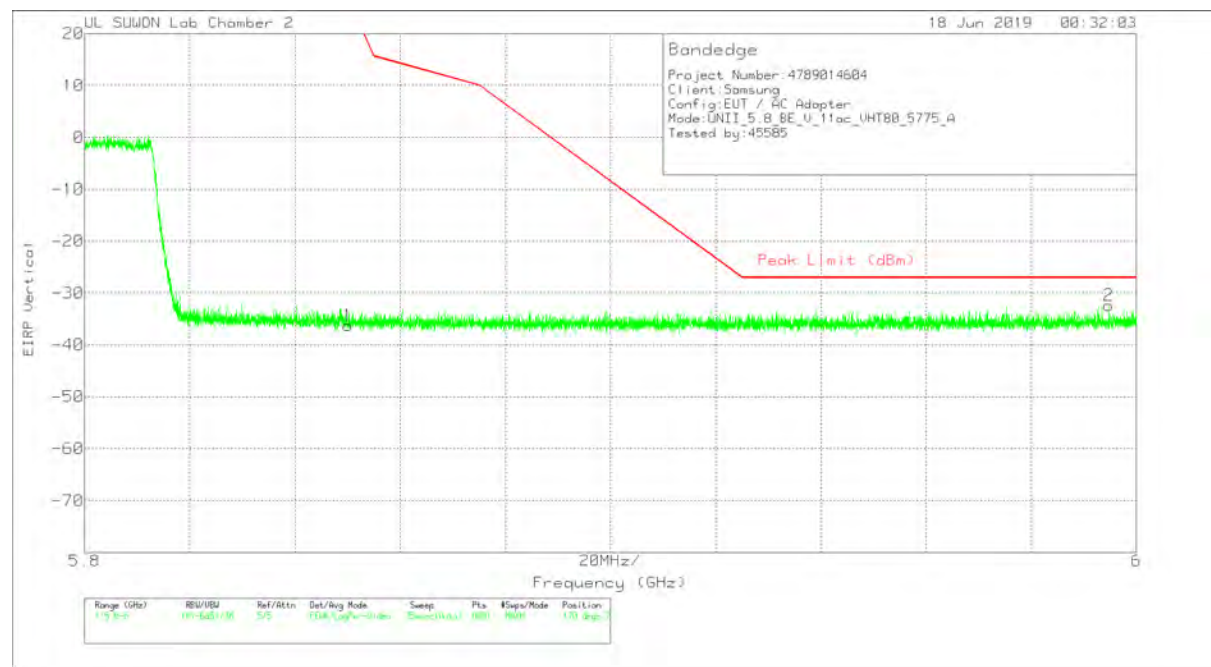


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.37	Pk	34.5	-15.5	11.8	0	-36.57	26.94	-63.51	125	290	H
2	5.962	-63.53	Pk	34.6	-15.4	11.8	0	-32.53	-27	-5.53	125	290	H

Pk - Peak detector

VERTICAL PEAK PLOT

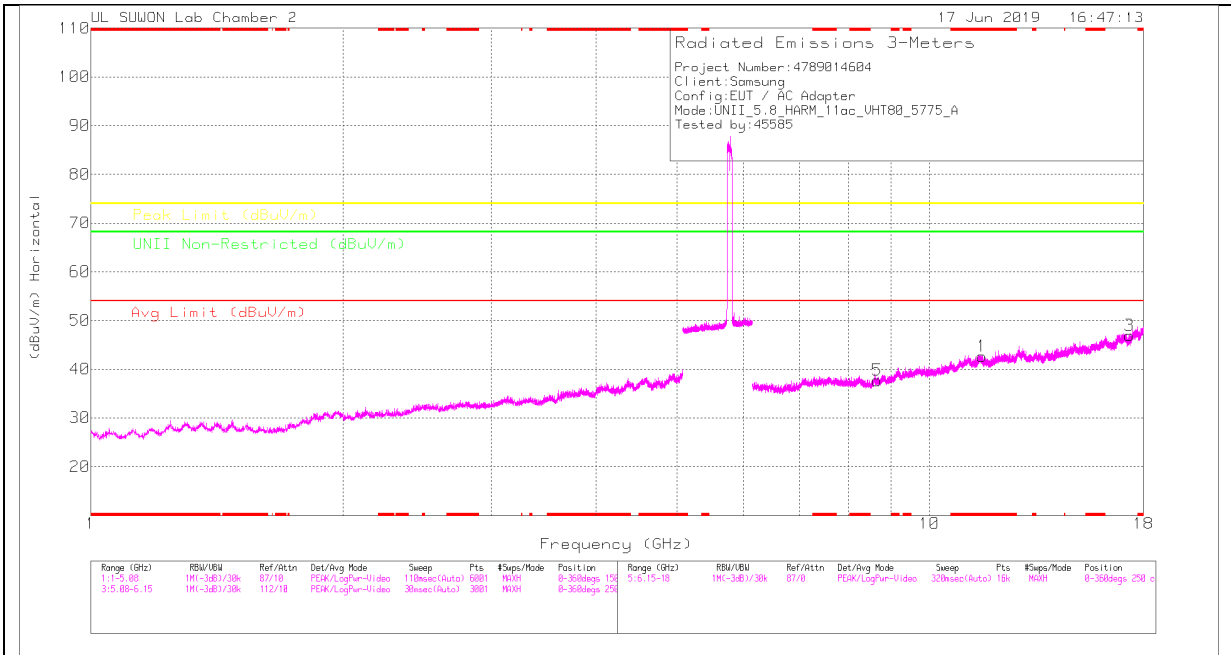


Trace Markers

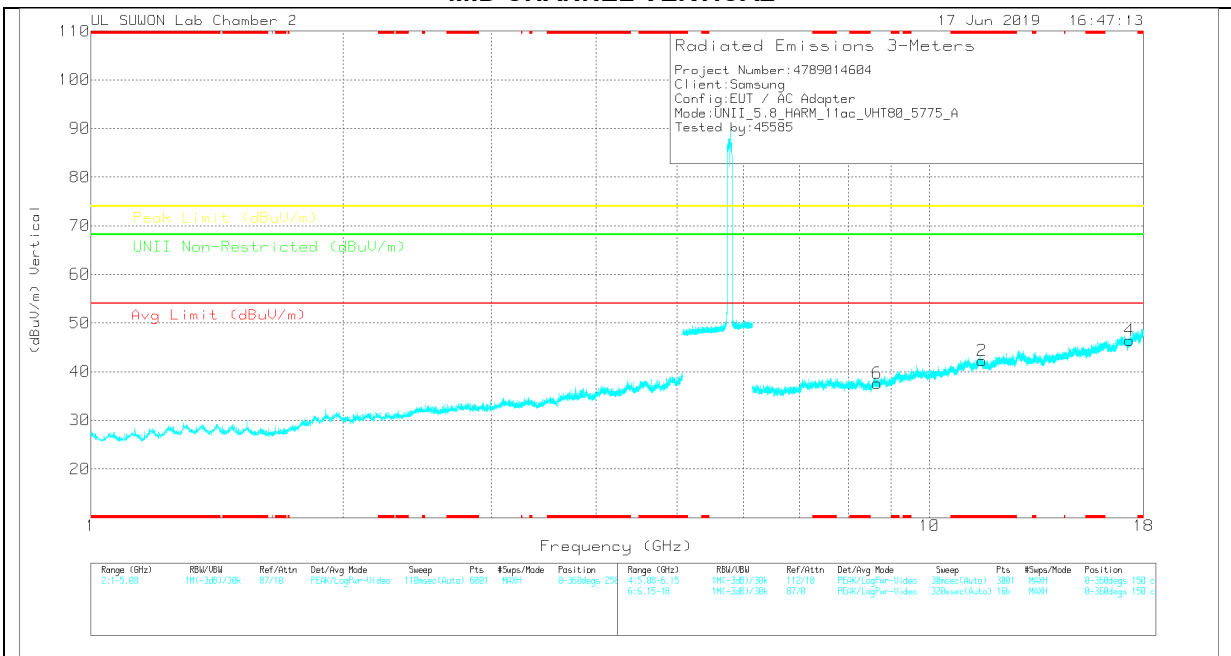
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.07	Pk	34.5	-15.5	11.8	0	-36.27	26.94	-63.21	170	230	V
2	5.995	-63.56	Pk	34.8	-15.4	11.8	0	-32.36	-27	-5.36	170	230	V

Pk - Peak detector

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

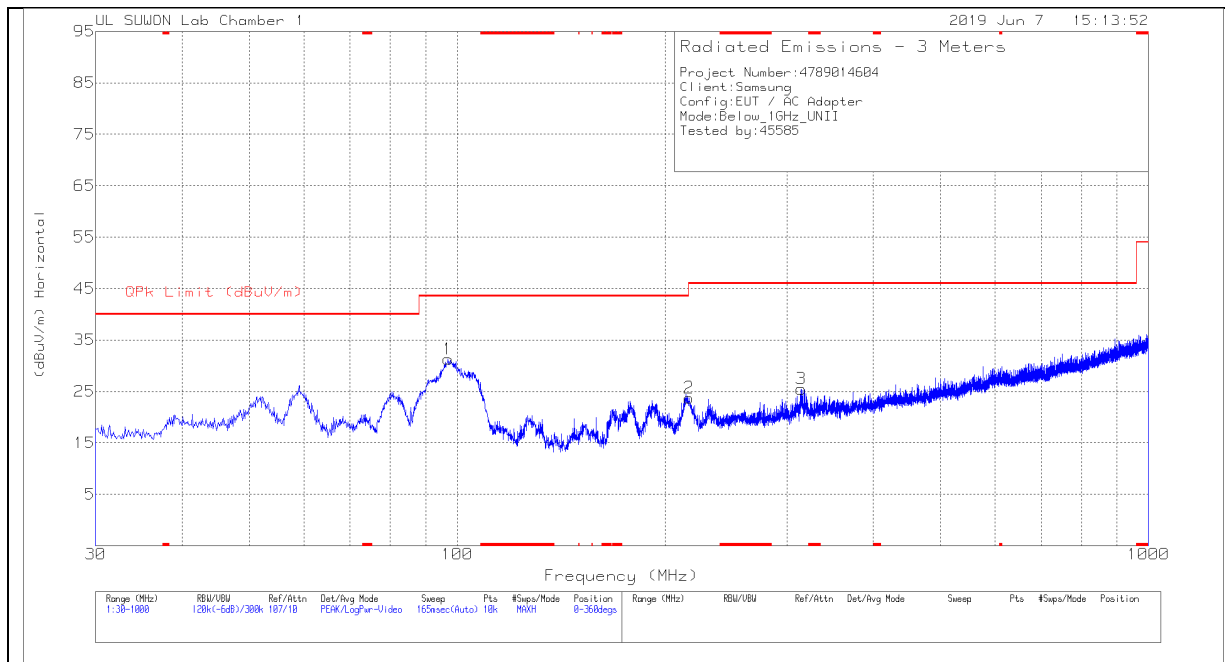
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 11.544	24.17	PK	38.3	-19.8	0	42.67	-	-	74	-31.33	-	-	0-360	150	H
3	17.329	24.47	PK	41.3	-18.9	0	46.87	-	-	-	-	68.2	-21.33	0-360	150	H
5	8.664	24.18	PK	36.2	-22.7	0	37.68	-	-	-	-	68.2	-30.52	0-360	250	H
2	* 11.548	23.77	PK	38.3	-19.8	0	42.27	-	-	74	-31.73	-	-	0-360	150	V
4	17.33	24.06	PK	41.3	-18.9	0	46.46	-	-	-	-	68.2	-21.74	0-360	250	V
6	8.664	24.07	PK	36.2	-22.6	0	37.67	-	-	-	-	68.2	-30.53	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

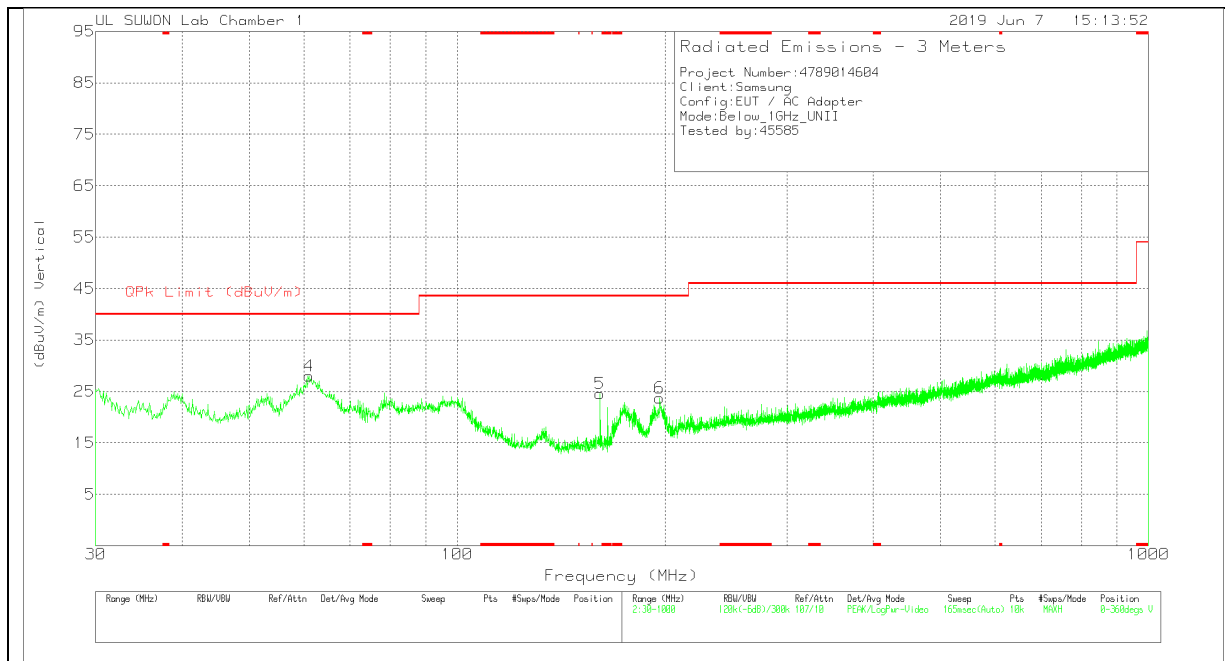
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

12. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	97.027	43.4	Pk	17.6	-29.7	31.3	43.52	-12.22	0-360	300	H
2	216.337	35.04	Pk	17.1	-28.4	23.74	46.02	-22.28	0-360	200	H
3	314.501	33.49	Pk	19.6	-27.6	25.49	46.02	-20.53	0-360	100	H
4	61.04	39.98	Pk	18.3	-30.3	27.98	40	-12.02	0-360	100	V
5	160.95	38.83	Pk	14.6	-28.9	24.53	43.52	-18.99	0-360	100	V
6	196.161	34.08	Pk	18.2	-28.6	23.68	43.52	-19.84	0-360	100	V

Pk - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

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

⁺ Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

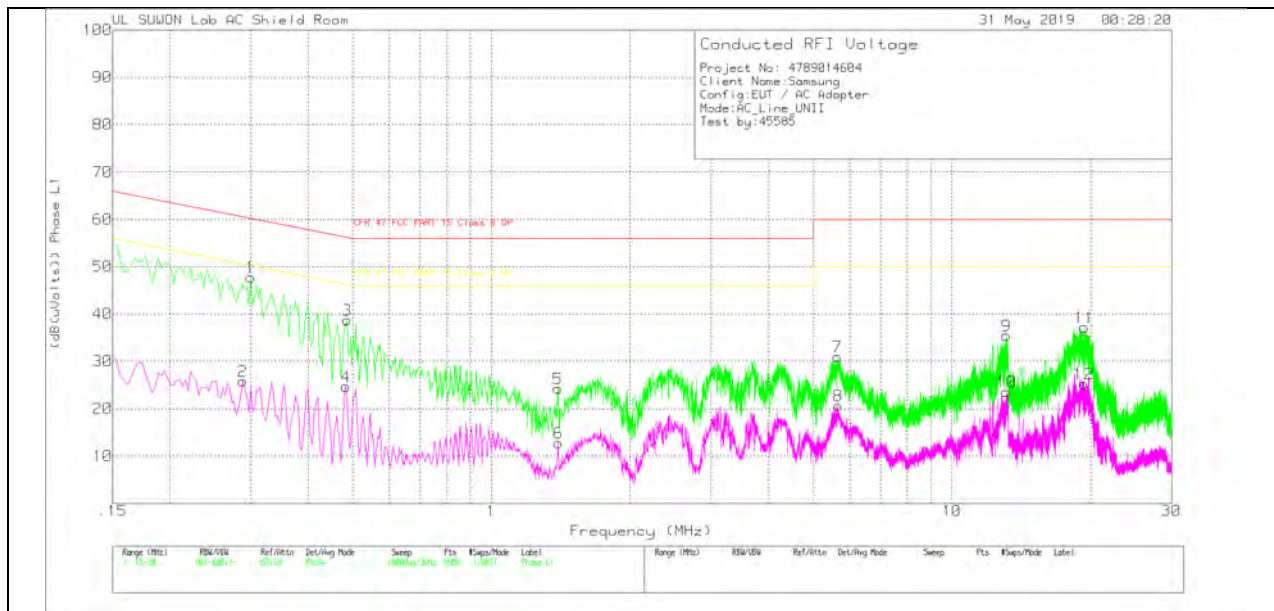
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

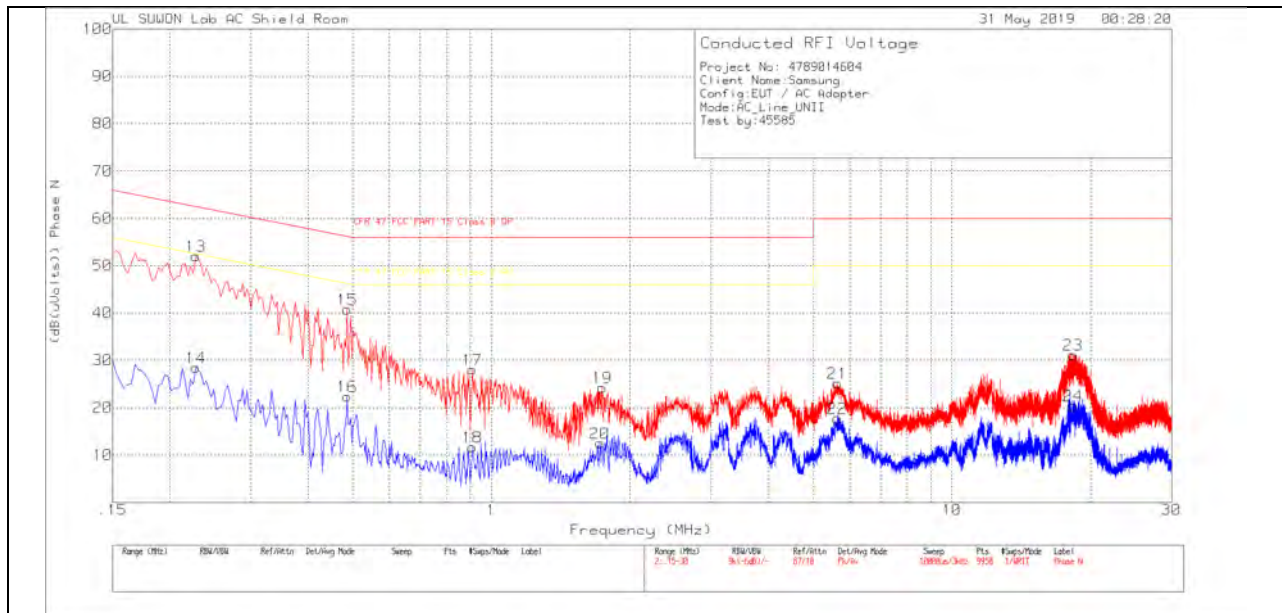
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.3	37.78	Pk	9.8	.2	47.78	60.24	-12.46	-	-
2	.288	15.87	Av	9.8	.2	25.87	-	-	50.58	-24.71
3	.486	28.63	Pk	9.9	.2	38.73	56.24	-17.51	-	-
4	.483	14.58	Av	9.9	.2	24.68	-	-	46.29	-21.61
5	1.395	14.16	Pk	9.8	.3	24.26	56	-31.74	-	-
6	1.398	2.72	Av	9.8	.3	12.82	-	-	46	-33.18
7	5.643	20.9	Pk	9.8	.3	31	60	-29	-	-
8	5.661	10.56	Av	9.8	.3	20.66	-	-	50	-29.34
9	13.14	24.95	Pk	10.1	.4	35.45	60	-24.55	-	-
10	13.134	13.06	Av	10.1	.4	23.56	-	-	50	-26.44
11	19.401	26.42	Pk	10.4	.4	37.22	60	-22.78	-	-
12	19.374	14.49	Av	10.4	.4	25.29	-	-	50	-24.71

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.228	42.02	Pk	9.8	.2	52.02	62.52	-10.5	-	-
14	.228	18.47	Av	9.8	.2	28.47	-	-	52.52	-24.05
15	.486	30.8	Pk	9.8	.2	40.8	56.24	-15.44	-	-
16	.486	12.38	Av	9.8	.2	22.38	-	-	46.24	-23.86
17	.909	17.97	Pk	9.8	.3	28.07	56	-27.93	-	-
18	.909	1.6	Av	9.8	.3	11.7	-	-	46	-34.3
19	1.74	14.24	Pk	9.7	.3	24.24	56	-31.76	-	-
20	1.719	2.51	Av	9.7	.3	12.51	-	-	46	-33.49
21	5.64	15.05	Pk	9.8	.3	25.15	60	-34.85	-	-
22	5.64	7.69	Av	9.8	.3	17.79	-	-	50	-32.21
23	18.333	20.35	Pk	10.4	.4	31.15	60	-28.85	-	-
24	18.342	9.64	Av	10.4	.4	20.44	-	-	50	-29.56

Pk - Peak detector

Av - Average detection

14. DYNAMIC FREQUENCY SELECTION

14.1. OVERVIEW

14.1.1. LIMITS

FCC

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.		

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

Maximum Transmit Power	Value (see notes)
E.I.R.P. $\geq$ 200 mill watt	-64 dBm
E.I.R.P. $<$ 200 mill watt and power spectral density $<$ 10 dBm/MHz	-62 dBm
E.I.R.P. $<$ 200 mill watt 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 move</i> (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

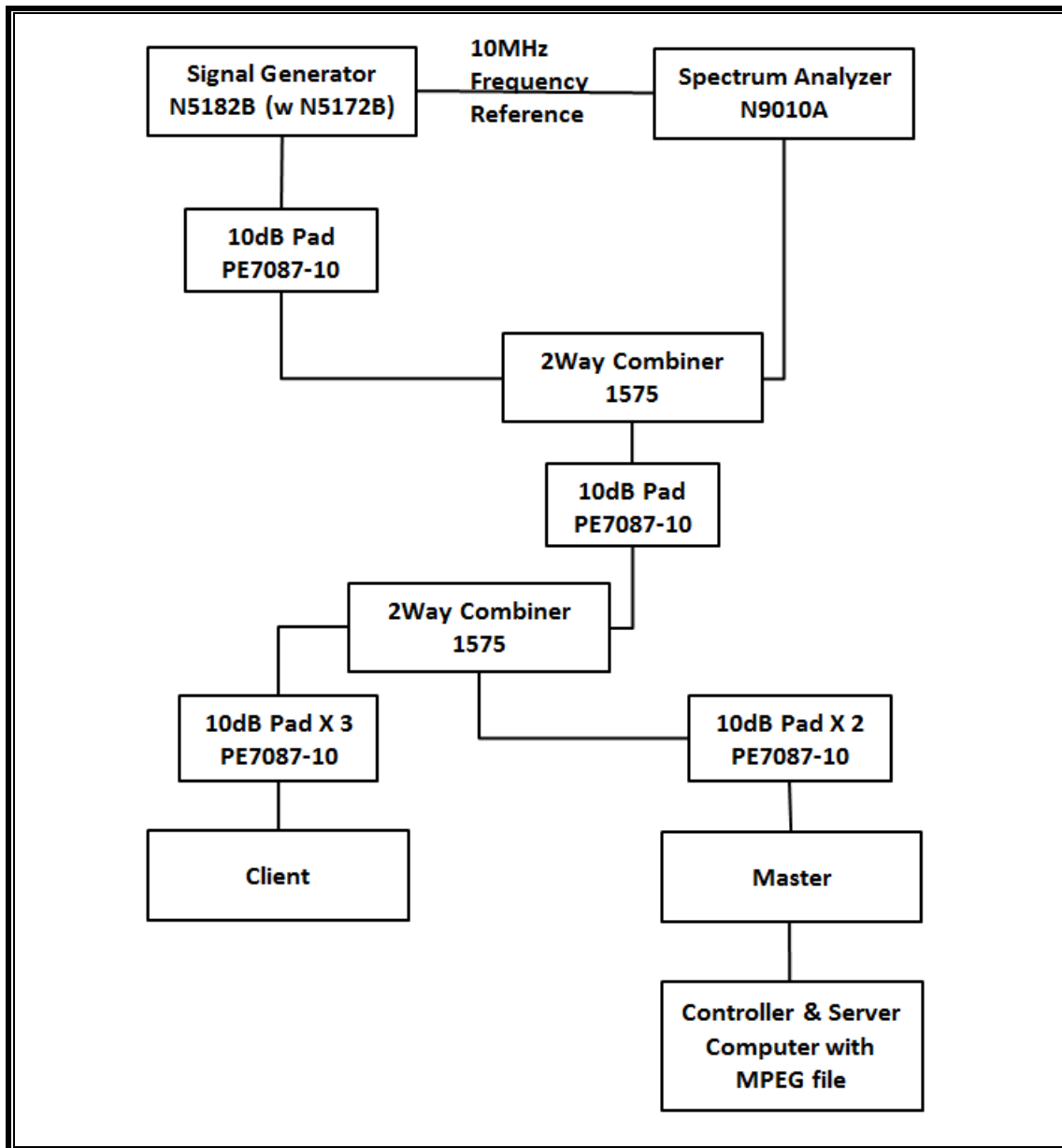
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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

14.1.1. TEST AND MEASUREMENT SYSTEM

CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the Keysite Signal Studio for Pulse Building as N5172B. 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 1, 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.

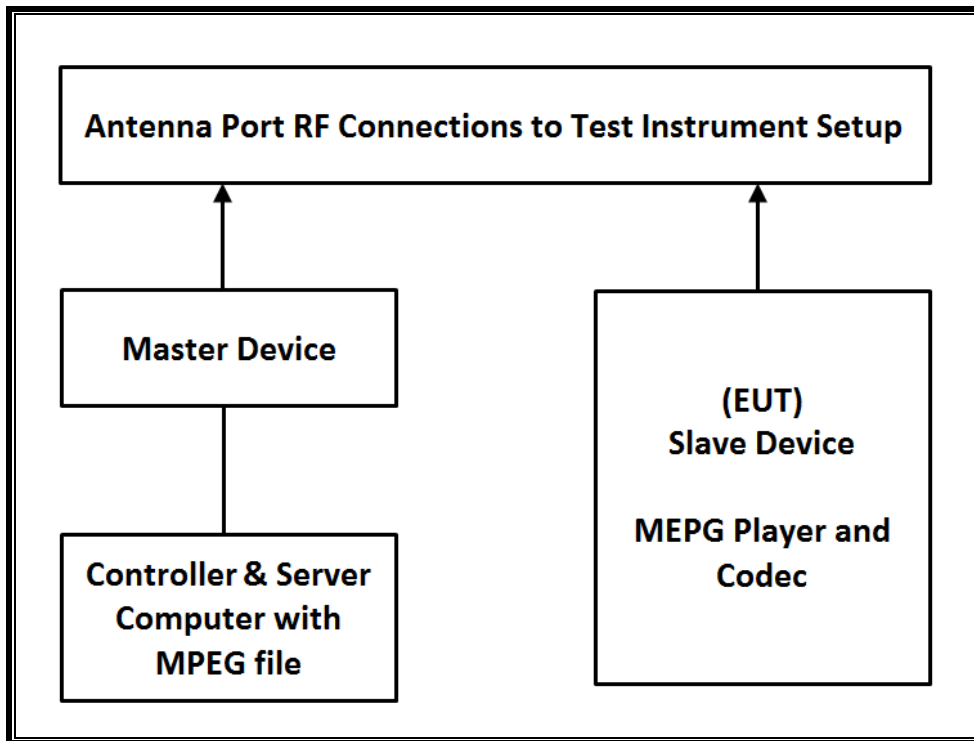
TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	S/N	Next Cal Due
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	08-07-19
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	08-07-19

14.1.2. SETUP OF EUT

CONDUCTED 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
Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX182276QX	LDK102087
Notebook PC (Controller/Server)	HP	HP EliteDesk 800 G1 TWR	CZC4125J25	DoC

14.1.3. DESCRIPTION OF EUT

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 18.18 dBm in the 5250-5350 MHz band and 18.50 dBm in the 5470-5725 MHz band.

The antenna assembly utilized two antenna.

Gain of antenna 1 : -6.60 dBi for UNII 2A and -5.80 dBi for UNII 2C.

Gain of antenna 2 : -5.80 dBi for UNII 2A and -6.50 dBi for UNII 2C.

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 conducted threshold at the antenna port is $-64 + 1 = -63$ dBm.

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

The EUT uses one transmitter/receiver chain connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the controller/server PC to the EUT using iPerf version 2.0.5 software package.

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 12.4(25d)JA1.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

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

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 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.

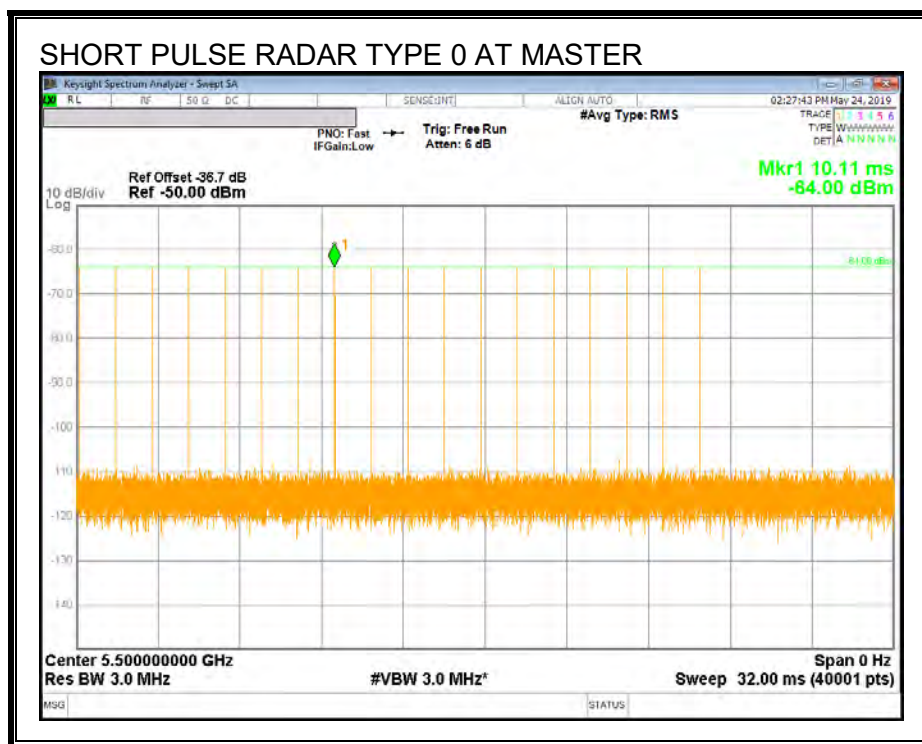
14.2. RESULTS FOR 20 MHz BANDWIDTH

14.2.1. TEST CHANNEL

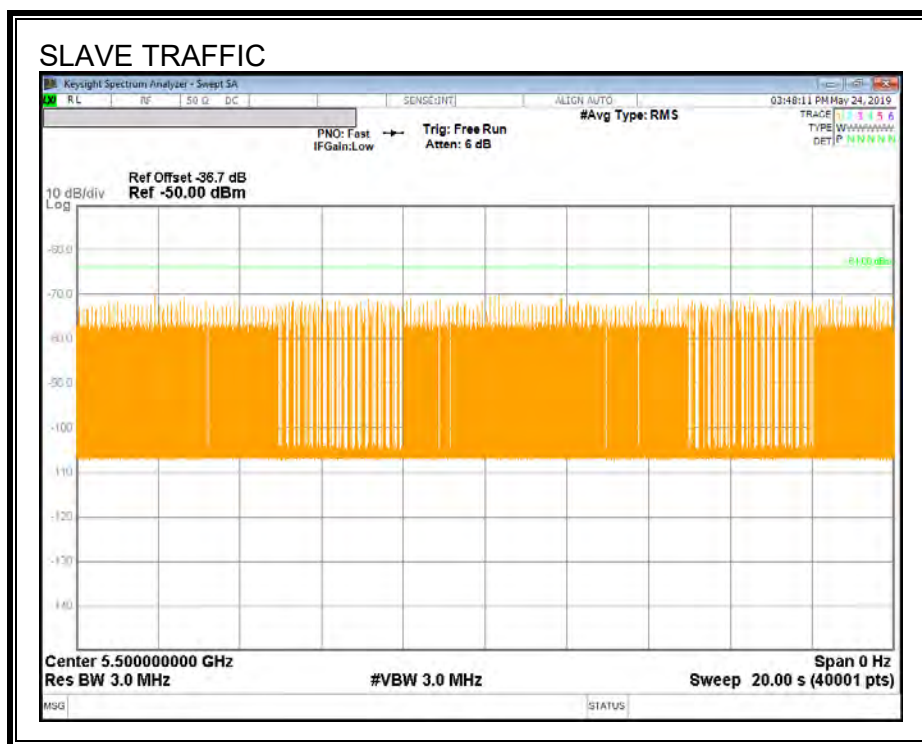
All tests were performed at a channel center frequency of 5500 MHz.

14.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



14.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.2.4. 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

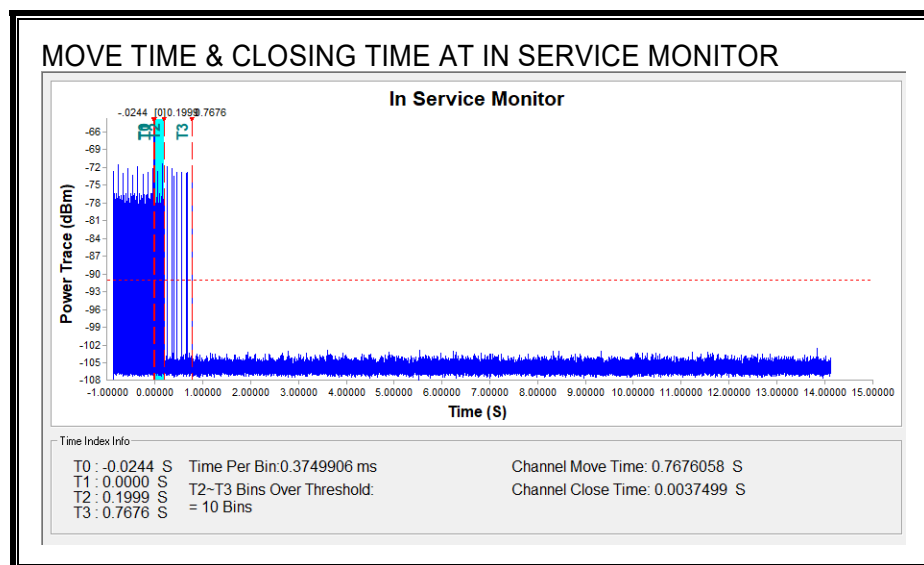
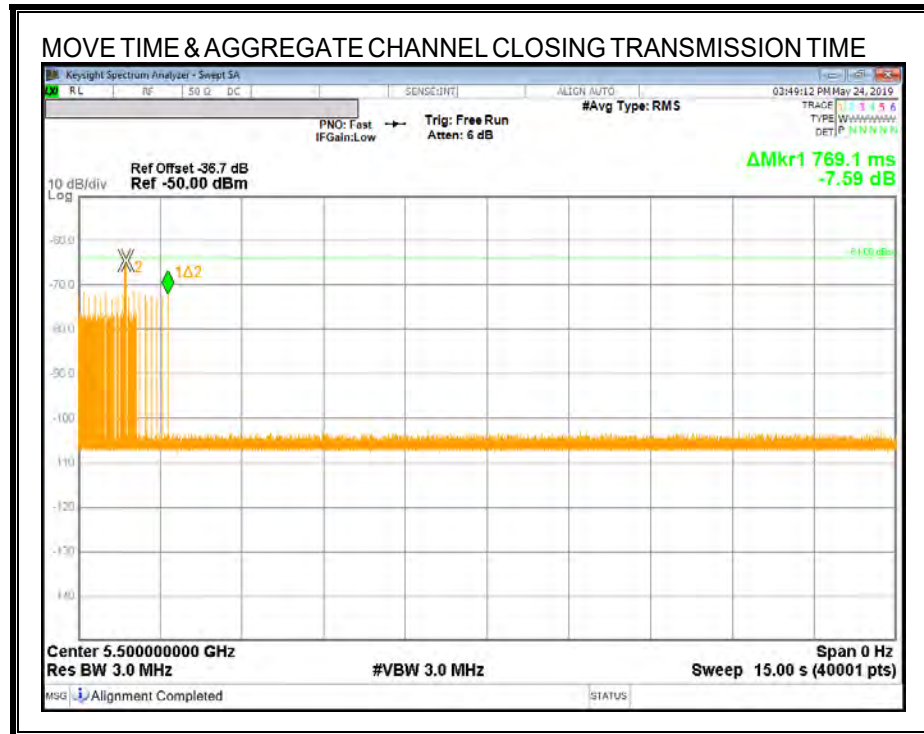
Channel Move Time (sec)	Limit (sec)
0.768	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
3.750	60

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

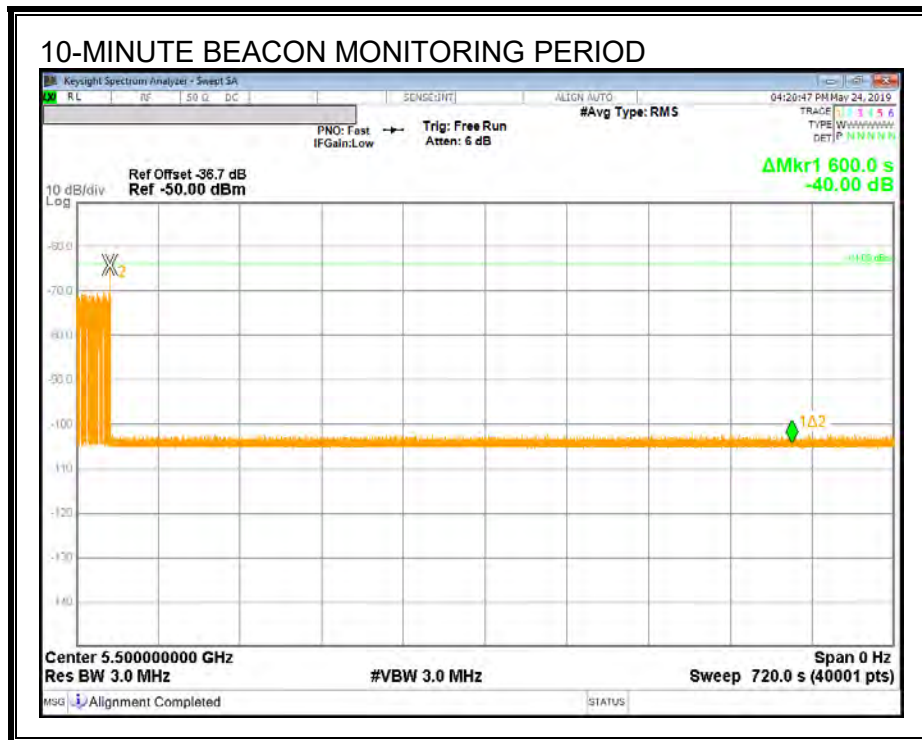
No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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



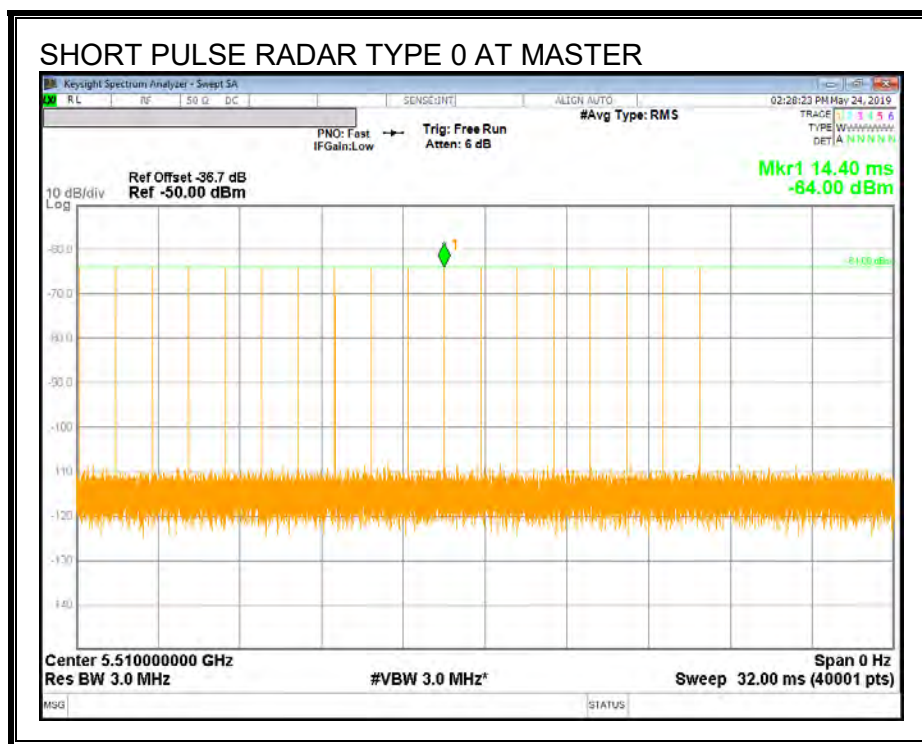
14.3. RESULTS FOR 40 MHz BANDWIDTH

14.3.1. TEST CHANNEL

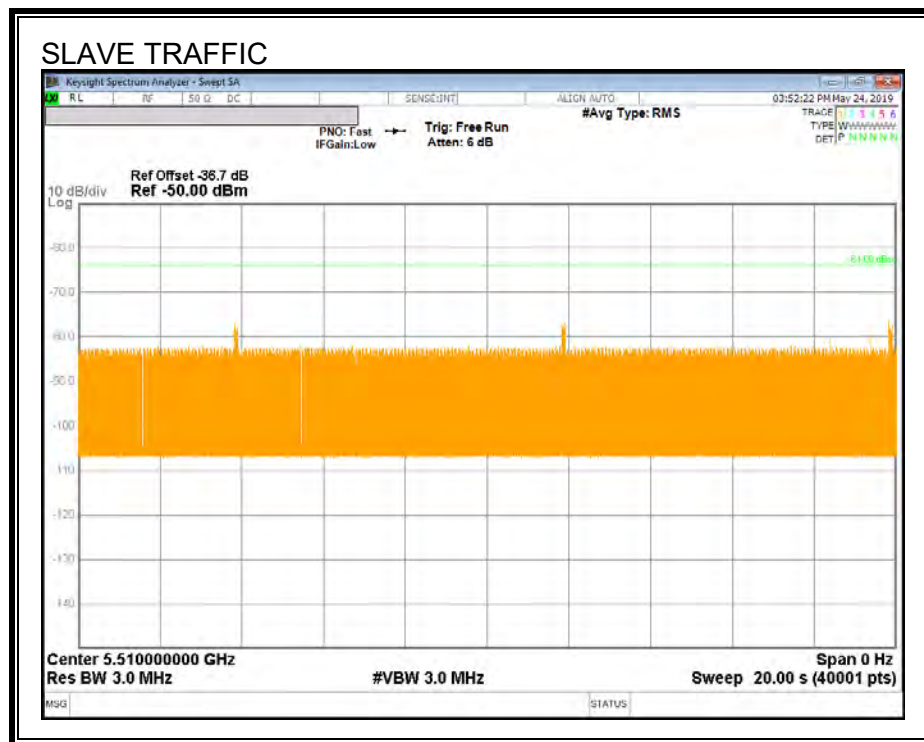
All tests were performed at a channel center frequency of 5510 MHz.

14.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



14.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.3.4. 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

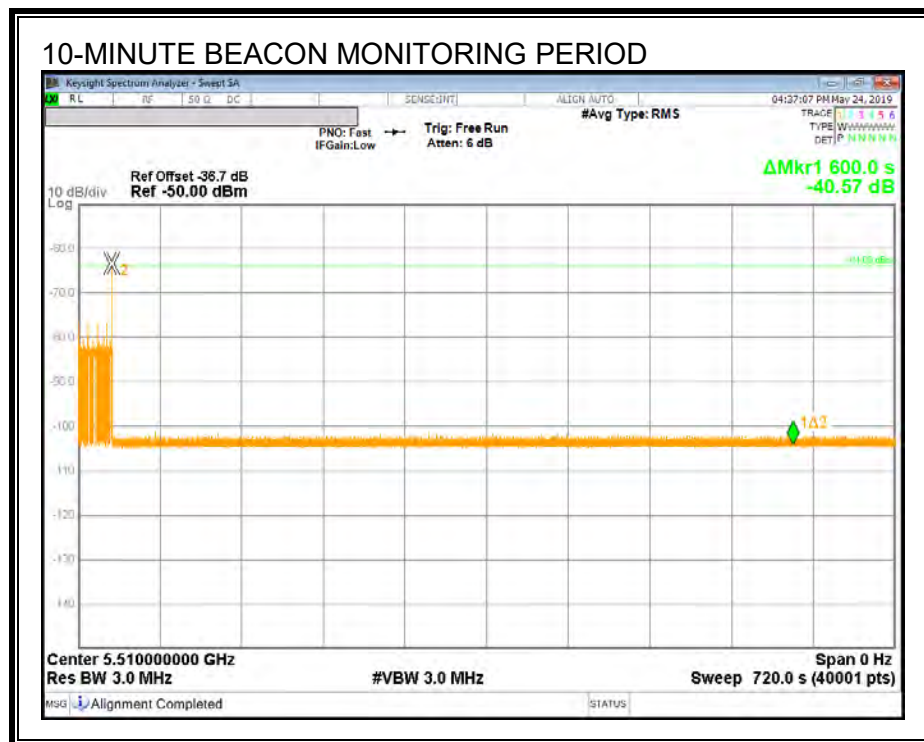
Channel Move Time (sec)	Limit (sec)
0.766	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
6.000	60

NON-OCCUPANCY PERIOD

RESULTS

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



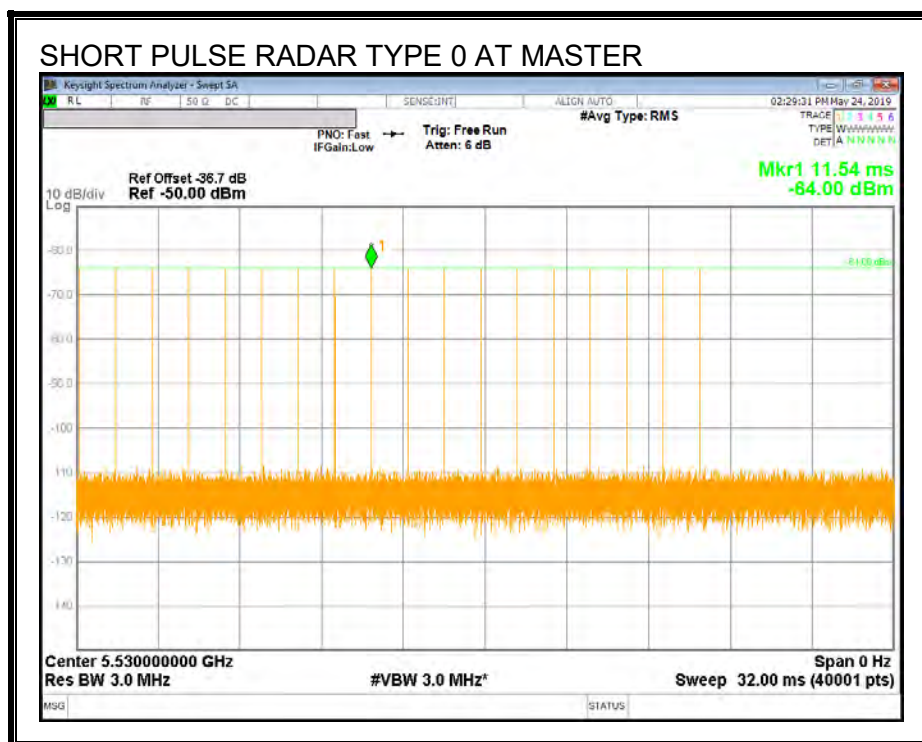
14.4. RESULTS FOR 80 MHz BANDWIDTH

14.4.1. TEST CHANNEL

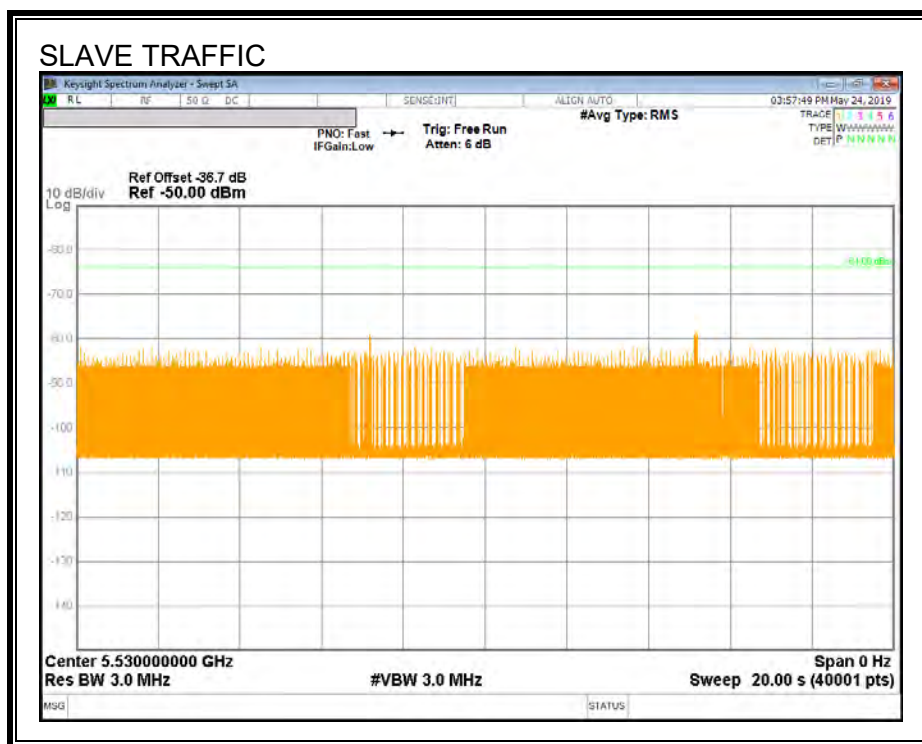
All tests were performed at a channel center frequency of 5530 MHz.

14.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



14.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.4.4. 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)
0.751	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5.625	60

NON-OCCUPANCY PERIOD

RESULTS

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

