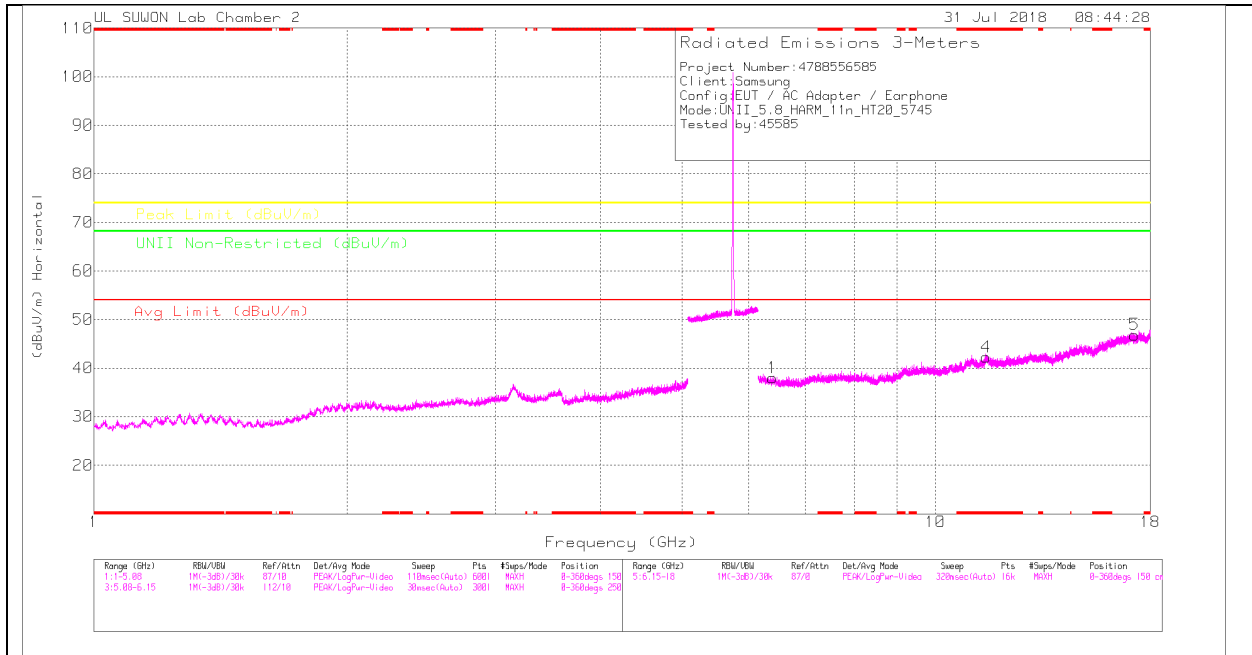
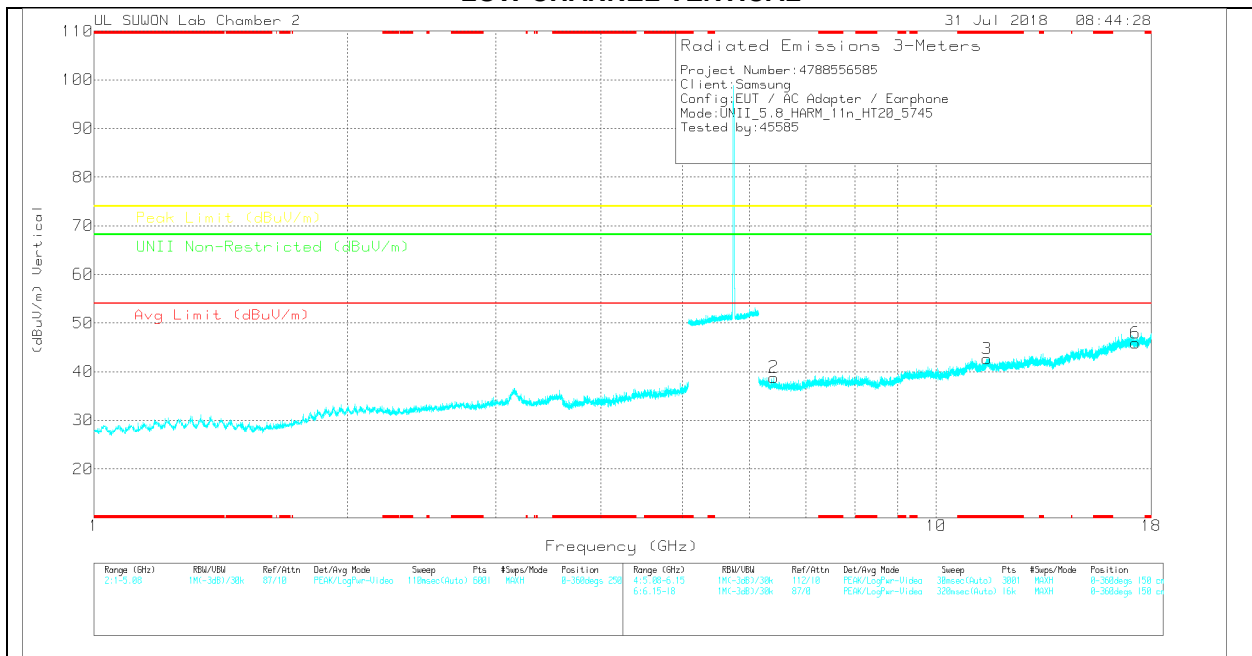


LOW CHANNEL HORIZONTAL



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

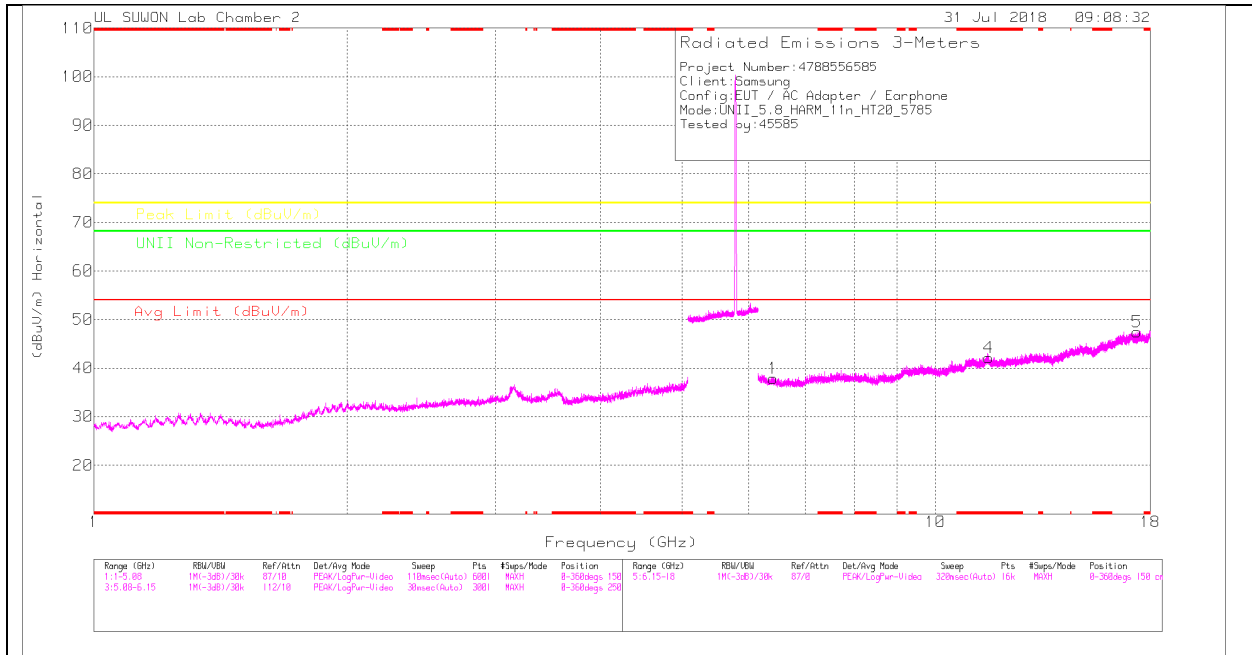
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	170531_3117003887_24	6GHz_HF(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	6.407	24.64	PK	35.1	-21.7	0	38.04	-	-	-	-	68.2	-30.16	0-360	250	H
4	*11.486	20.02	PK	38.2	-15.9	0	42.32	-	-	74	-31.68	-	-	0-360	150	H
5	17.235	18.76	PK	41.6	-13.5	0	46.86	-	-	-	-	68.2	-21.34	0-360	150	H
2	6.415	25.24	PK	35.1	-21.5	0	38.84	-	-	-	-	68.2	-29.36	0-360	150	V
3	*11.493	20.32	PK	38.2	-15.9	0	42.62	-	-	74	-31.38	-	-	0-360	150	V
6	17.237	17.66	PK	41.6	-13.4	0	45.86	-	-	-	-	68.2	-22.34	0-360	250	V

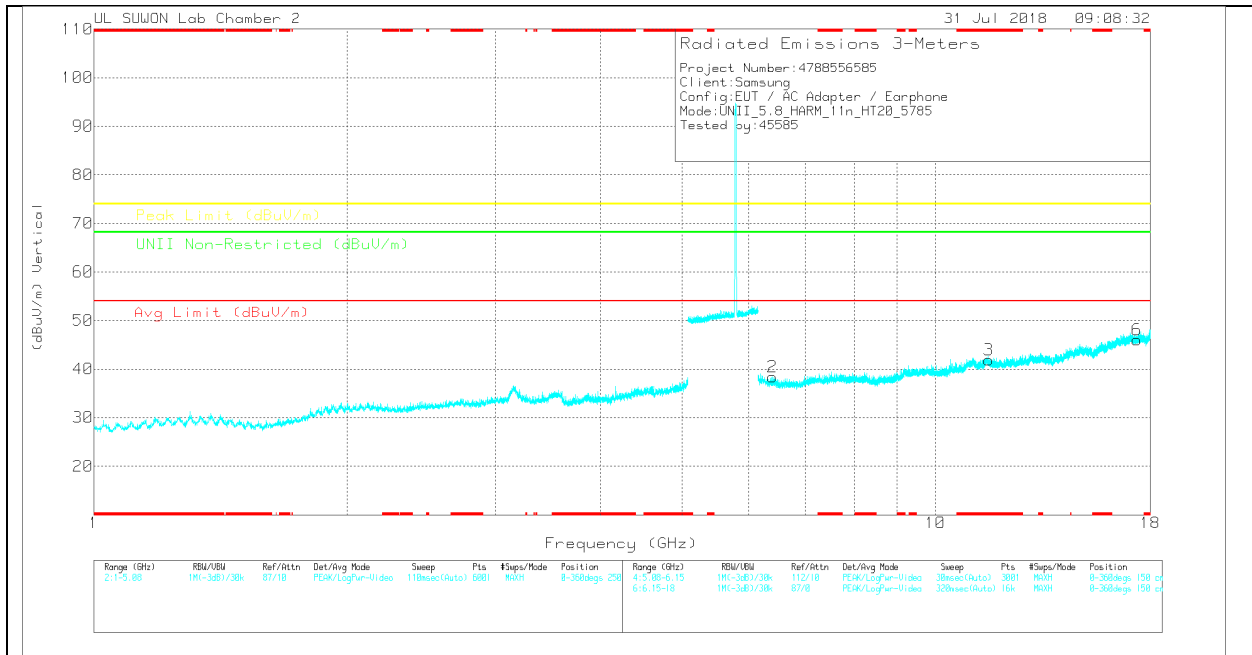
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

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

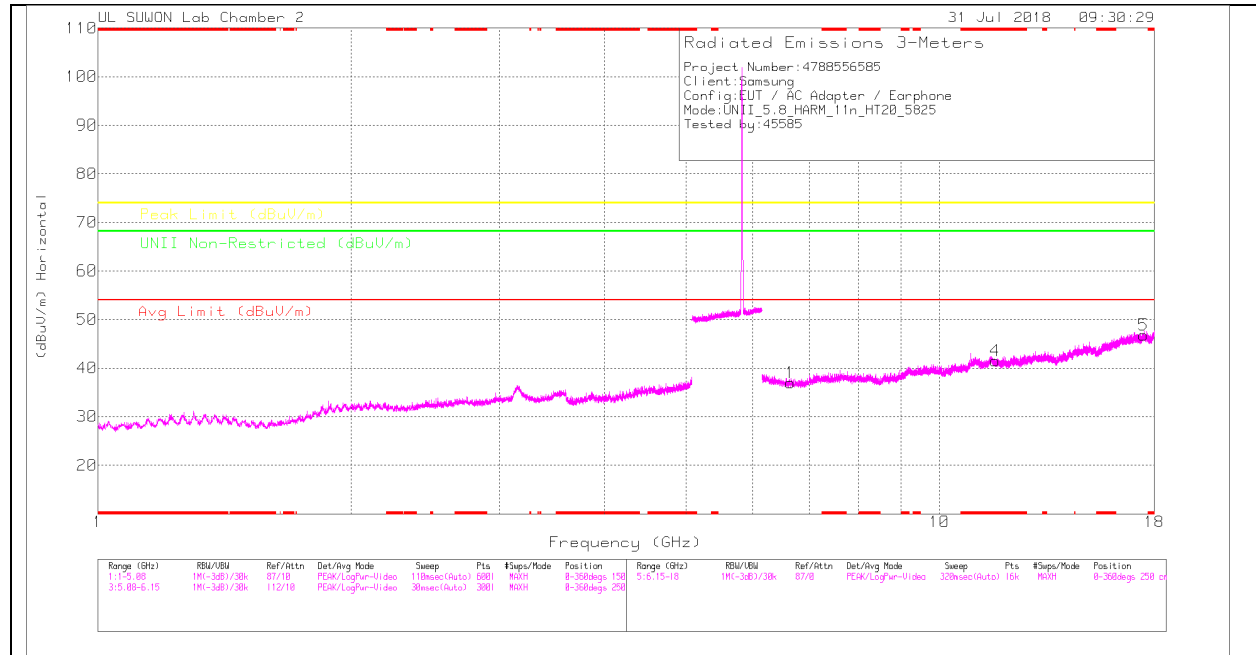
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	170531_3117(001887_24)	6GHz_HPF(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)	Azimuth (Degs)	Height (cm)	Polariz
1	6.411	24.41	PK	35.1	-21.6	0	37.91	-	-	-	-	68.2	-30.29	0-360	250	H
4	* 11.567	19.88	PK	38.2	-15.9	0	42.18	-	-	74	-31.82	-	-	0-360	250	H
5	17.357	19.35	PK	41.4	-13.3	0	47.45	-	-	-	-	68.2	-20.75	0-360	150	H
2	6.407	24.98	PK	35.1	-21.7	0	38.38	-	-	-	-	68.2	-29.82	0-360	250	V
3	* 11.569	19.57	PK	38.2	-15.9	0	41.87	-	-	74	-32.13	-	-	0-360	250	V
6	17.358	17.9	PK	41.4	-13.3	0	46	-	-	-	-	68.2	-22.2	0-360	150	V

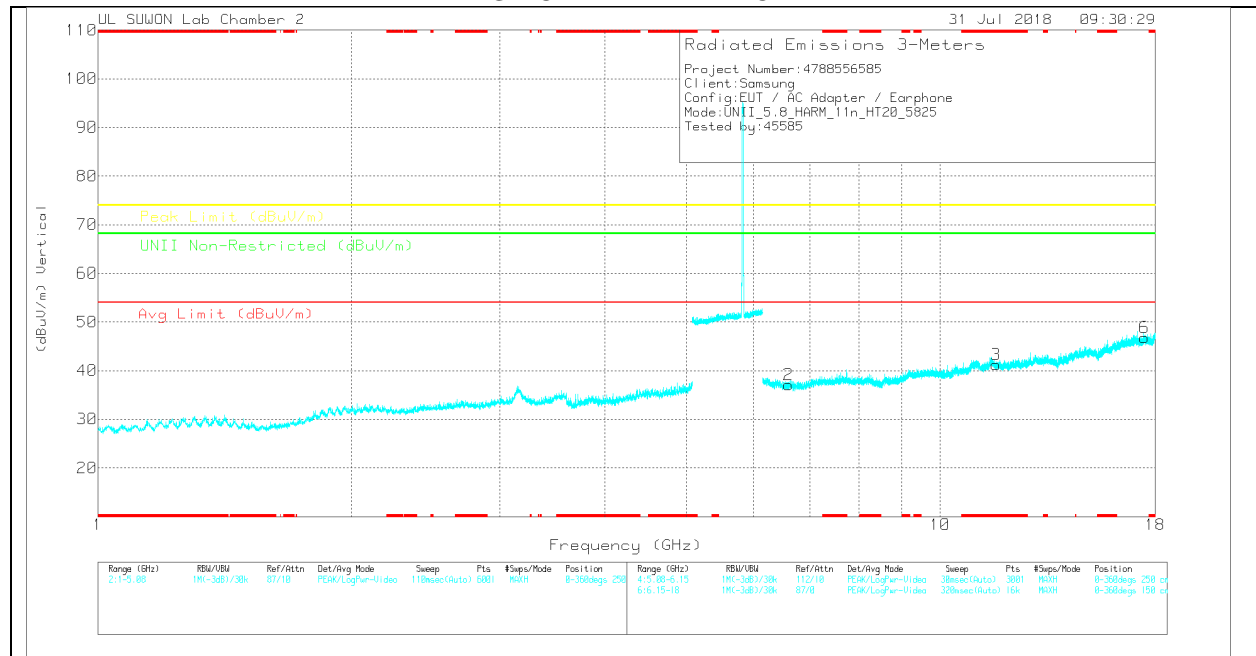
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

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

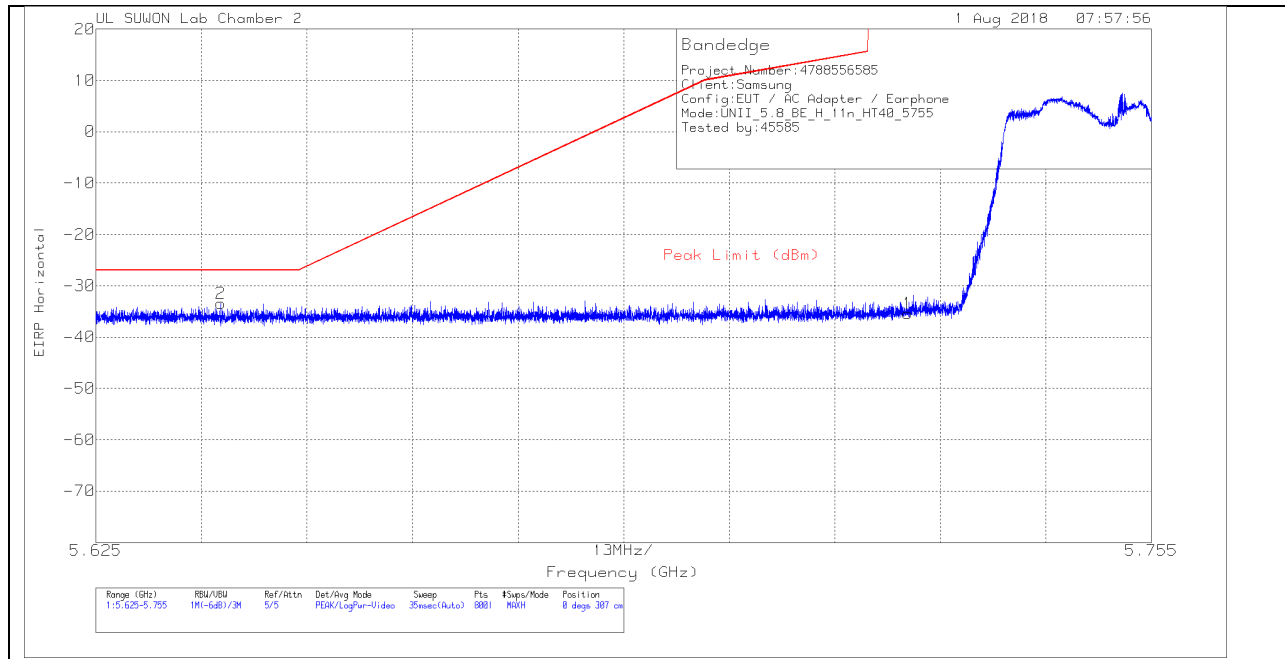
Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	170531_3117003687_24	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unli Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.648	23.52	PK	35.2	-21.7	0	37.02	-	-	-	-	68.2	-31.18	0-360	250	H
4	*11.651	19.07	PK	38.1	-15.7	0	41.47	-	-	74	-32.53	-	-	0-360	250	H
5	17.477	17.83	PK	41.2	-12.2	0	46.83	-	-	-	-	68.2	-21.37	0-360	250	H
2	6.602	24.02	PK	35.1	-22	0	37.12	-	-	-	-	68.2	-31.08	0-360	150	V
3	*11.653	18.98	PK	38.1	-15.8	0	41.28	-	-	74	-32.72	-	-	0-360	250	V
6	17.476	17.81	PK	41.2	-12.2	0	46.81	-	-	-	-	68.2	-21.39	0-360	150	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).

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

HORIZONTAL PEAK PLOT



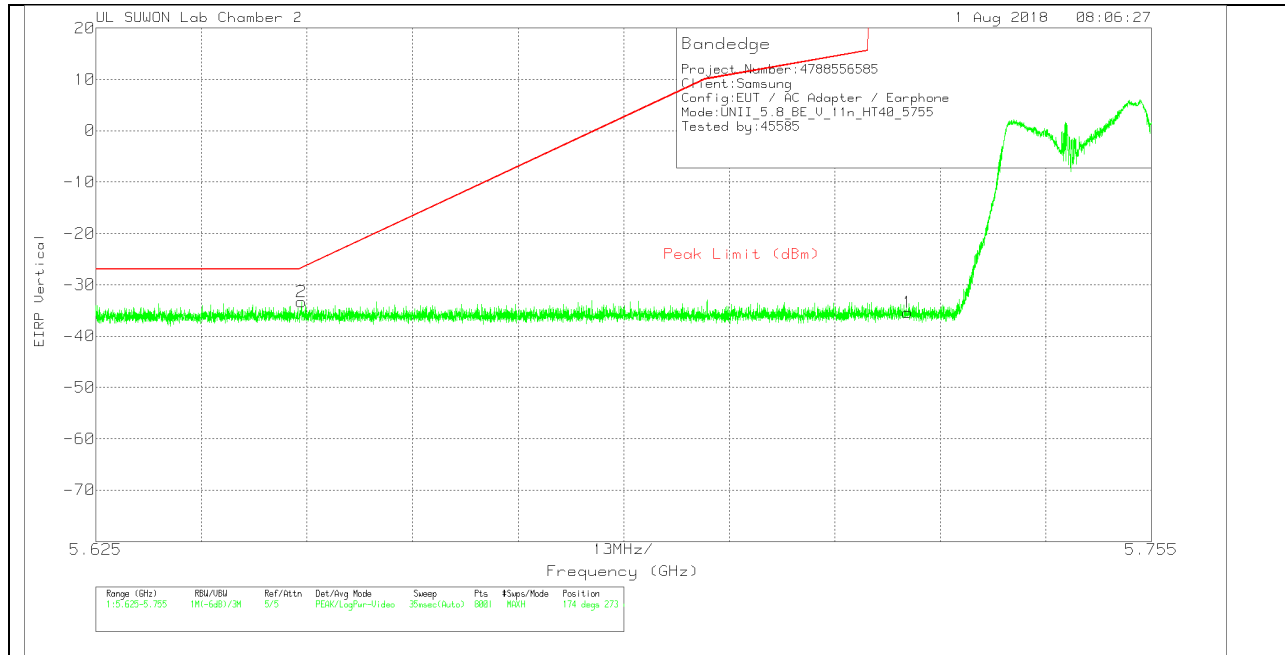
HORIZONTAL DATA

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	5.725	-66.08	Pk	34.5	-15.6	11.8	0	-35.38	278.26	-313.64	0	307	H
2	5.64	-63.93	Pk	34.4	-15.7	11.8	0	-33.43	-27	-6.43	0	307	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

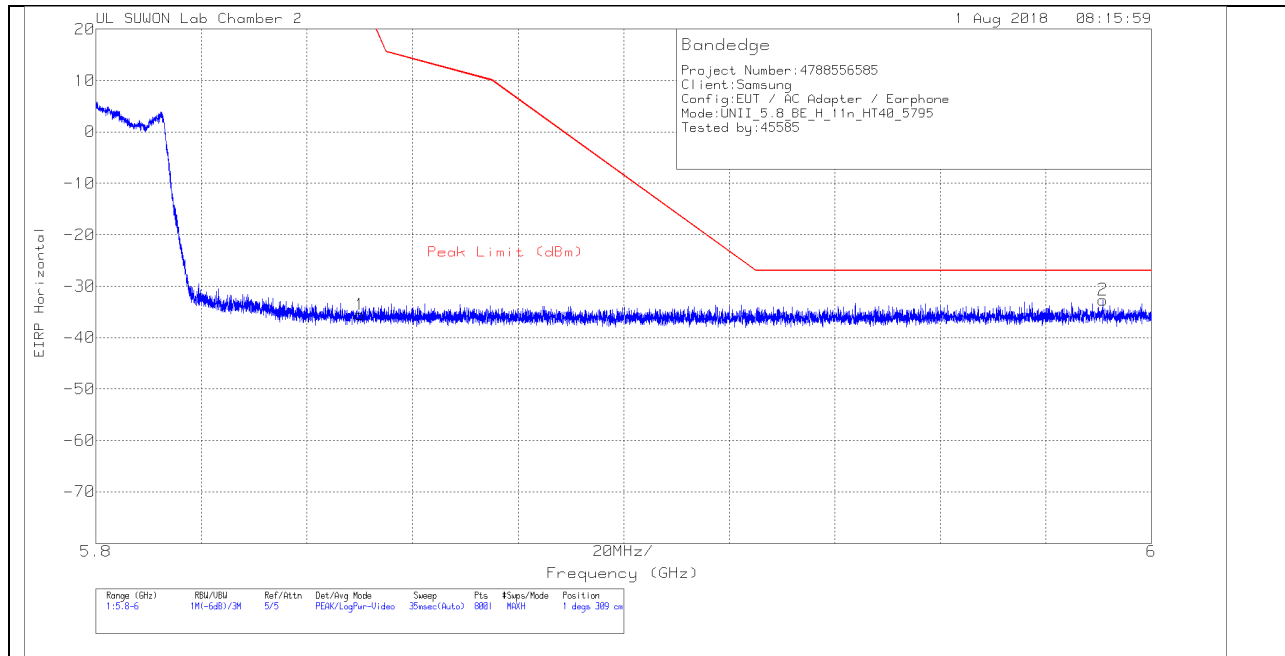
Trace Markers

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	5.725	-66.1	Pk	34.5	-15.6	11.8	0	-35.4	278.26	-313.66	174	273	V
2	5.65	-63.85	Pk	34.4	-15.7	11.8	0	-33.35	-26.76	-6.59	174	273	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



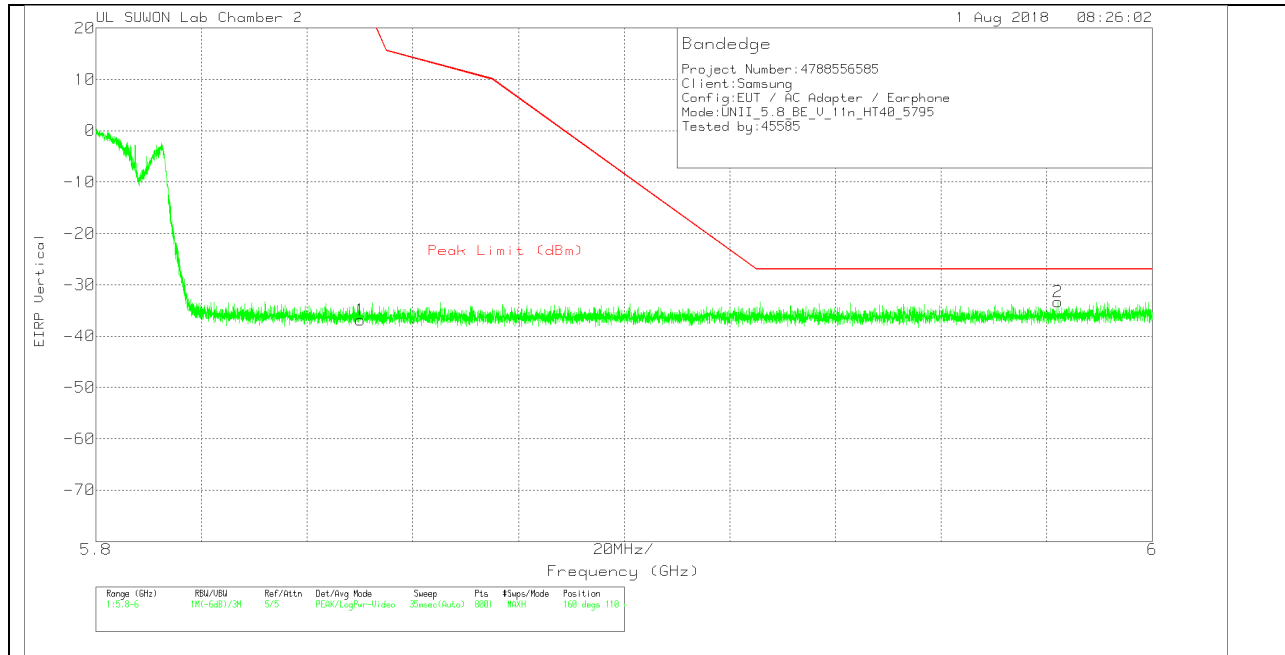
HORIZONTAL DATA

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	-66.31	Pk	34.5	-15.5	11.8	0	-35.51	26.94	-62.45	1	309	H
2	5.991	-63.84	Pk	34.8	-15.4	11.8	0	-32.64	-27	-5.64	1	309	H

Pk - Peak detector

VERTICAL PEAK PLOT



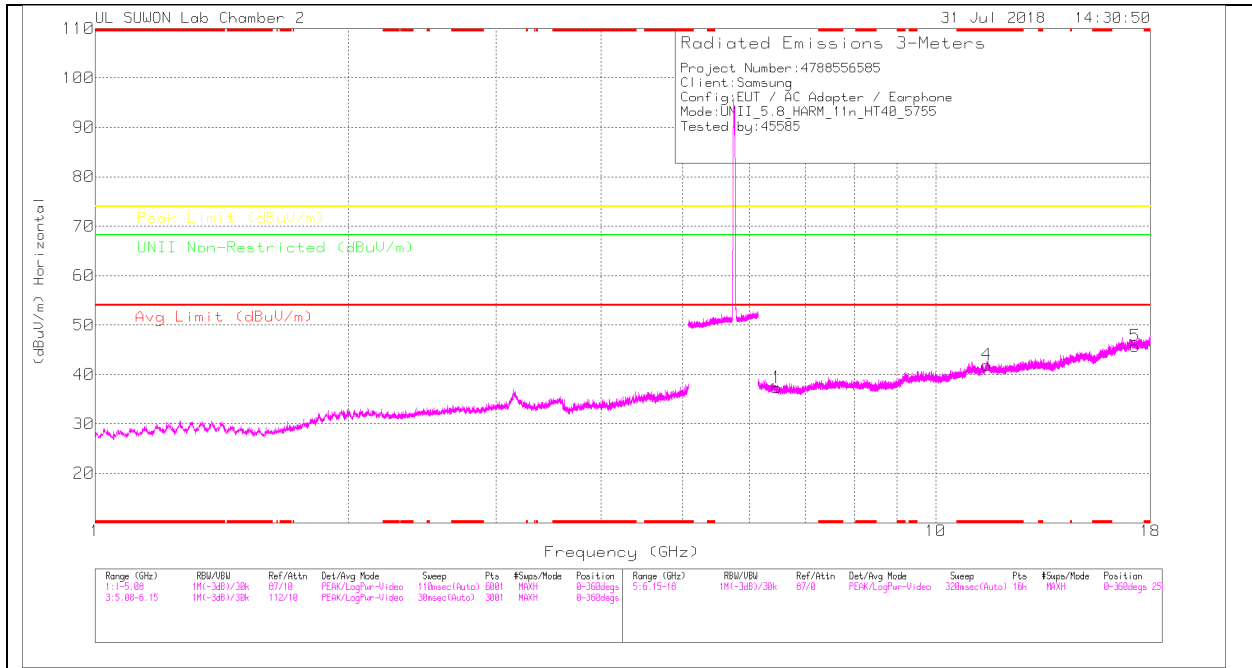
VERTICAL DATA

Trace Markers

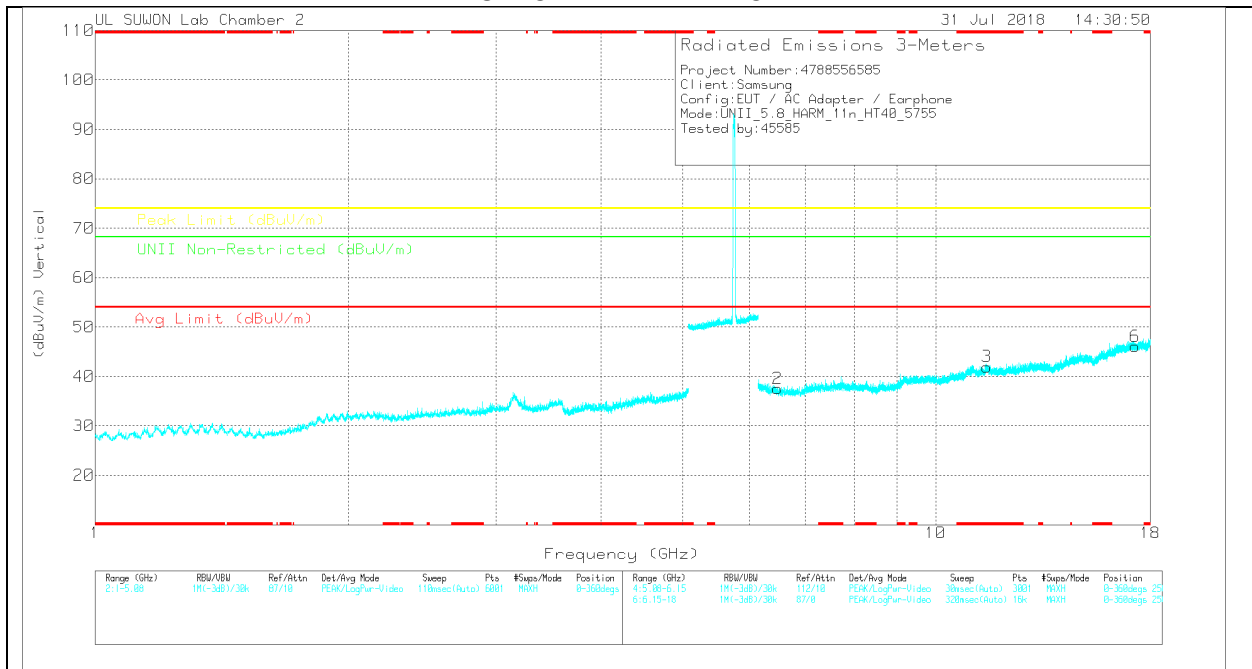
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.66	Pk	34.5	-15.5	11.8	0	-36.86	26.94	-63.8	160	110	V
2	5.982	-64.36	Pk	34.7	-15.4	11.8	0	-33.26	-27	-6.26	160	110	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

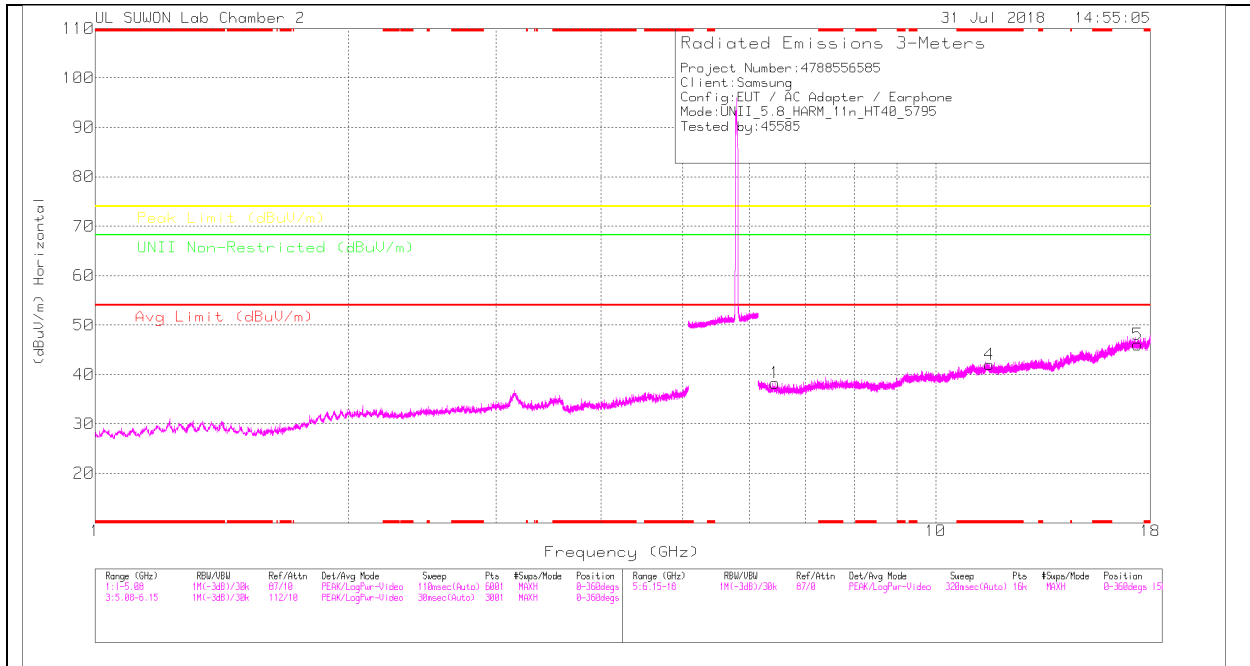
Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_3117003687_24	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unfil Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.477	24.26	PK	35.1	-22	0	37.36	-	-	-	-	68.2	-30.84	0-360	150	H
4	* 11.51	19.63	PK	38.2	-15.9	0	41.93	-	-	74	-32.07	-	-	0-360	150	H
5	17.265	17.66	PK	41.5	-13.4	0	45.76	-	-	-	-	68.2	-22.44	0-360	250	H
2	6.483	24.46	PK	35.1	-22	0	37.56	-	-	-	-	68.2	-30.64	0-360	250	V
3	* 11.511	19.65	PK	38.2	-15.9	0	41.95	-	-	74	-32.05	-	-	0-360	250	V
6	17.265	17.96	PK	41.5	-13.4	0	46.06	-	-	-	-	68.2	-22.14	0-360	250	V

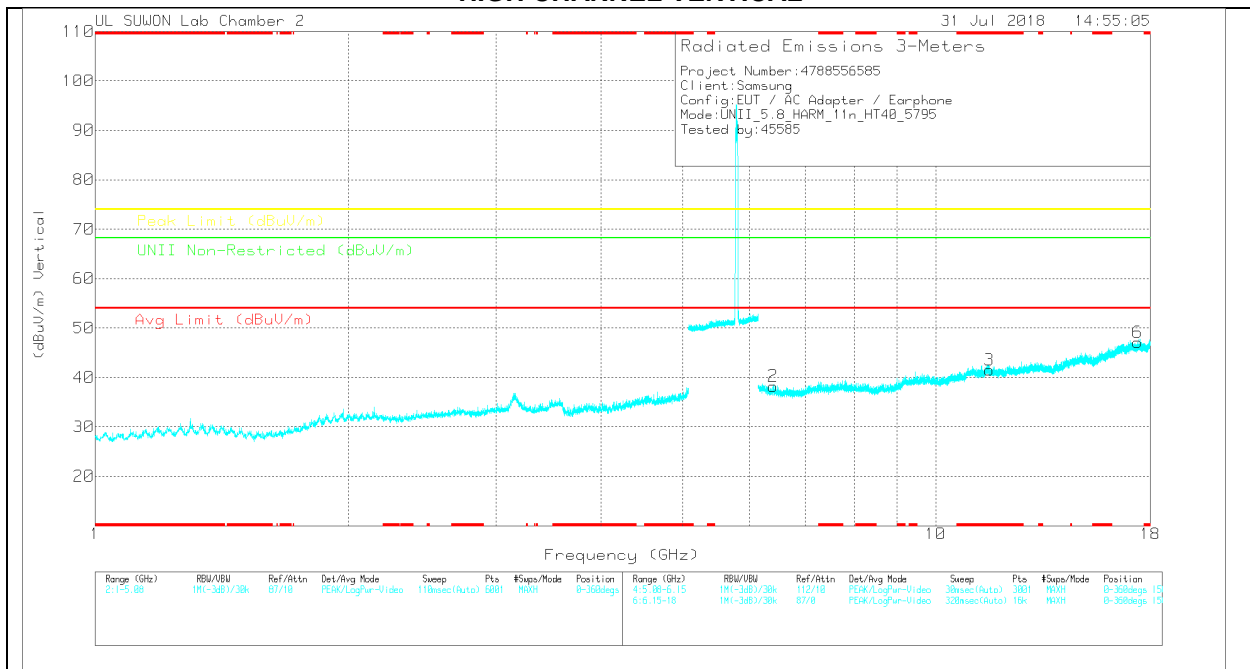
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

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

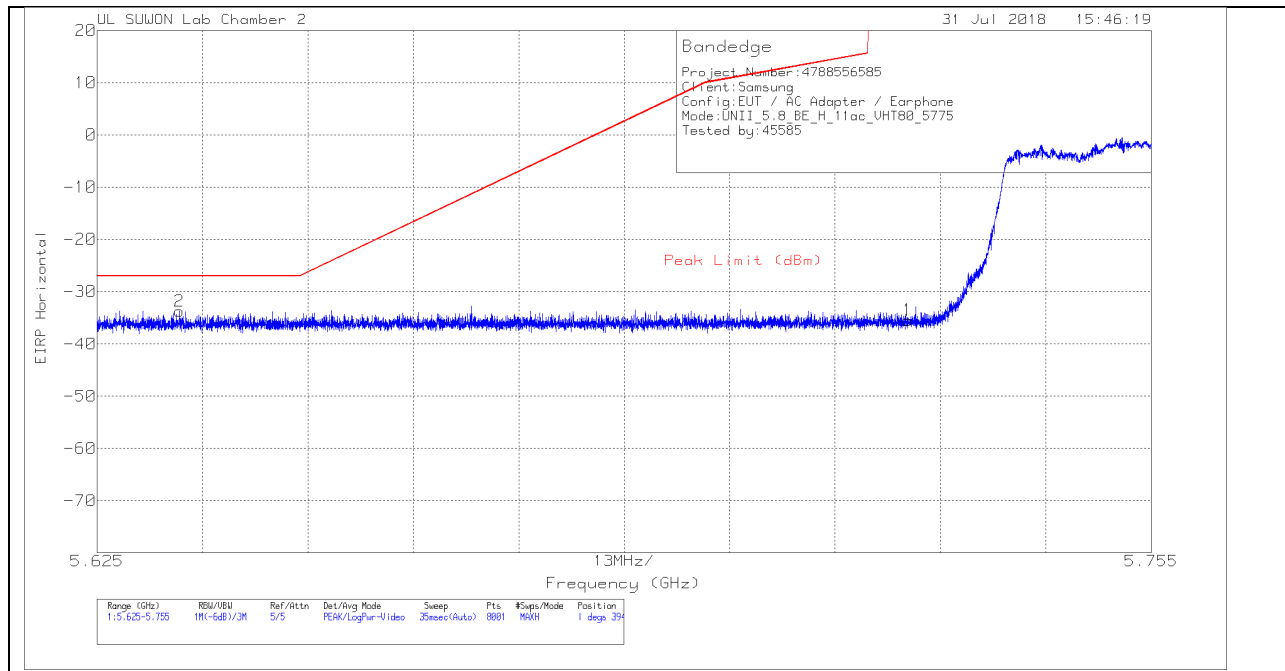
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_3117003687_24	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.444	24.77	PK	35.1	-21.6	0	38.27	-	-	-	-	68.2	-29.93	0-360	250	H
4	* 11.59	19.72	PK	38.2	-15.9	0	42.02	-	-	74	-31.98	-	-	0-360	150	H
5	17.385	17.85	PK	41.3	-13.1	0	46.05	-	-	-	-	68.2	-22.15	0-360	250	H
2	6.405	24.85	PK	35.1	-21.7	0	38.25	-	-	-	-	68.2	-29.95	0-360	250	V
3	* 11.586	19.08	PK	38.2	-15.8	0	41.48	-	-	74	-32.52	-	-	0-360	150	V
6	17.385	18.88	PK	41.3	-13.1	0	47.08	-	-	-	-	68.2	-21.12	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).

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

HORIZONTAL PEAK PLOT



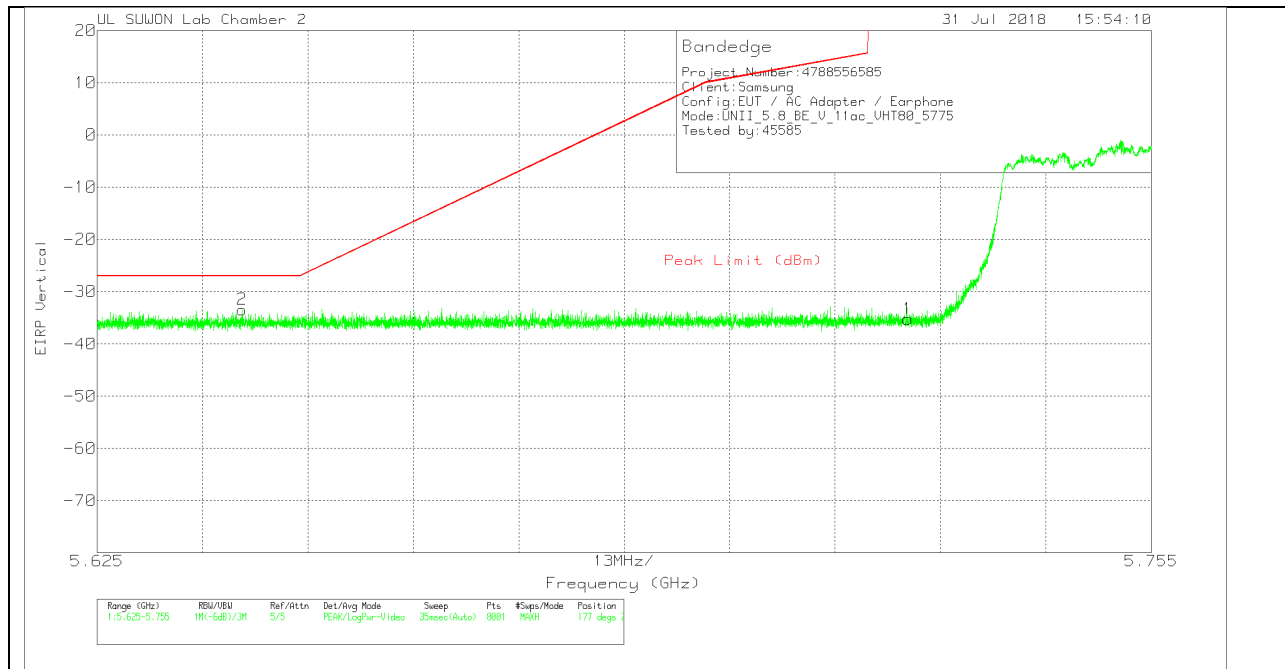
HORIZONTAL DATA

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	5.725	-66.2	Pk	34.5	-15.6	11.8	0	-35.5	278.26	-313.76	1	394	H
2	5.635	-64.24	Pk	34.4	-15.7	11.8	0	-33.74	-27	-6.74	1	394	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

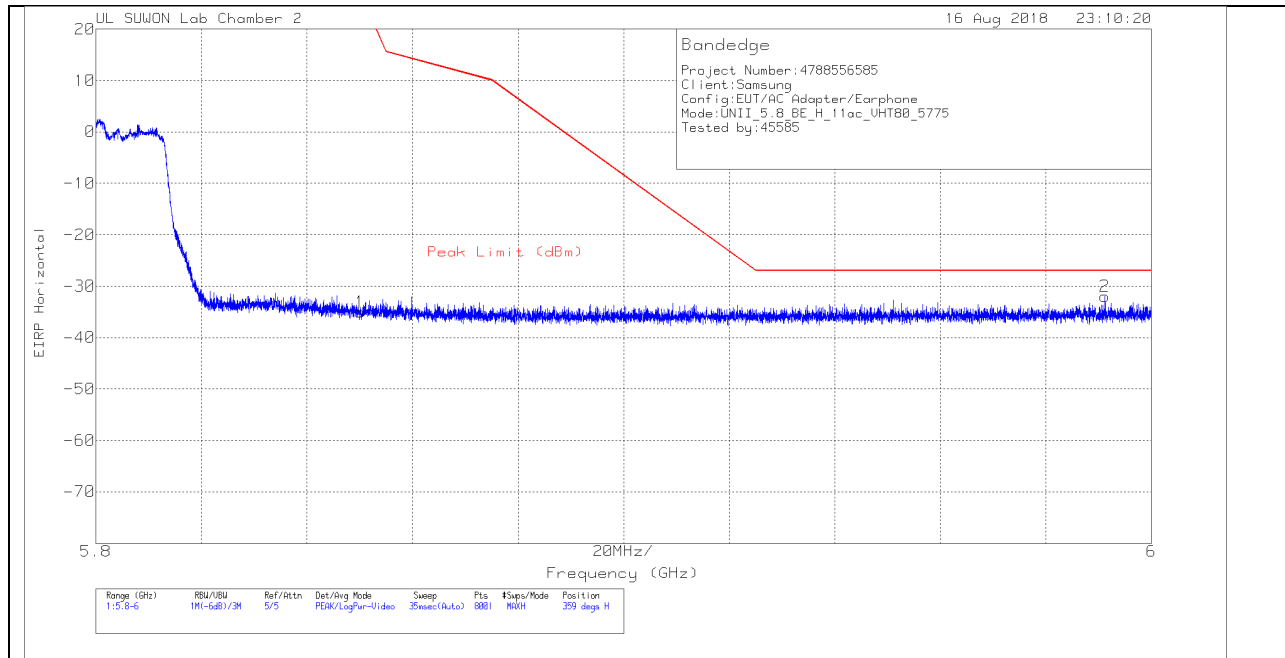
Trace Markers

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	5.725	-65.92	Pk	34.5	-15.6	11.8	0	-35.22	278.26	-313.48	177	283	V
2	5.643	-63.93	Pk	34.4	-15.7	11.8	0	-33.43	-27	-6.43	177	283	V

Pk - Peak detector

BANDEDGE (Upper side)

HORIZONTAL PEAK PLOT



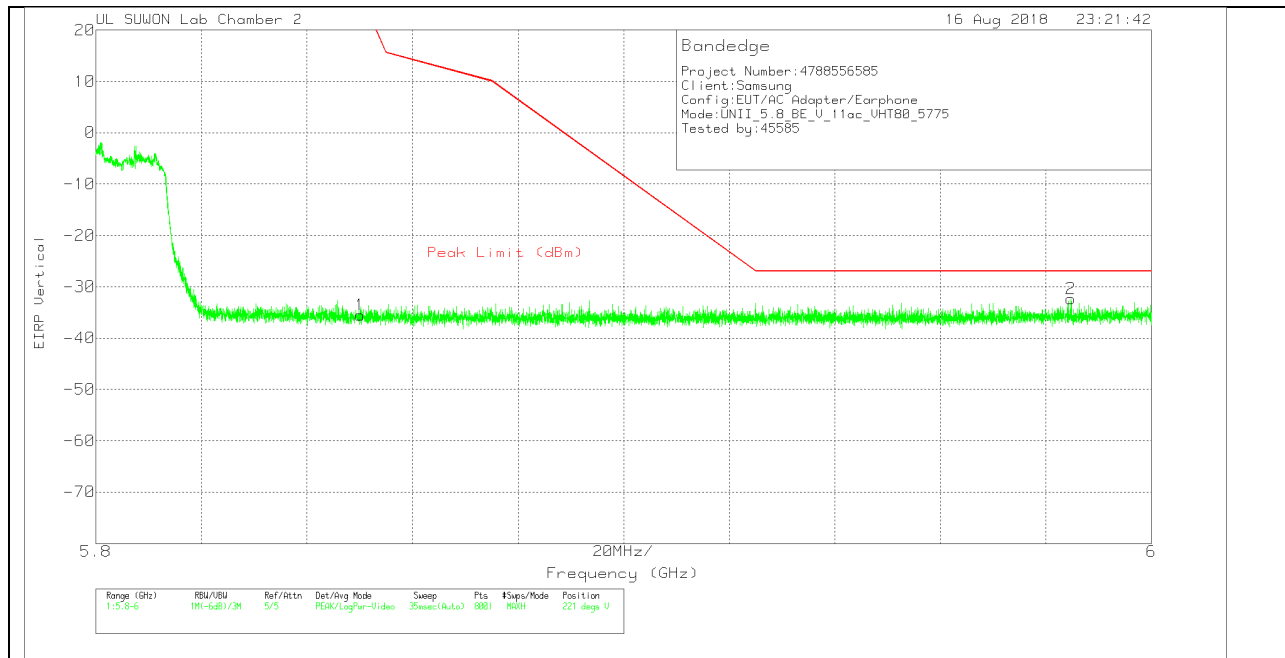
HORIZONTAL DATA

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	-65.84	Pk	34.5	-15.5	11.8	0	-35.04	26.94	-61.98	359	297	H
2	5.991	-63.16	Pk	34.8	-15.4	11.8	0	-31.96	-27	-4.96	359	297	H

Pk - Peak detector

VERTICAL PEAK PLOT



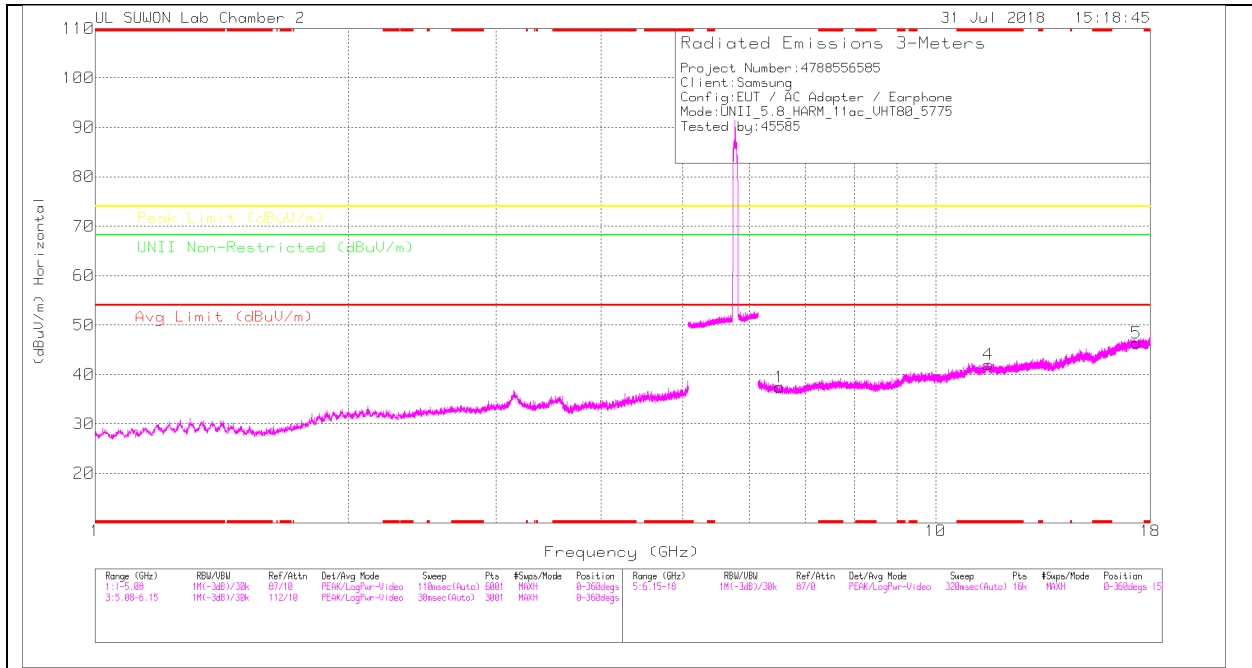
VERTICAL DATA

Trace Markers

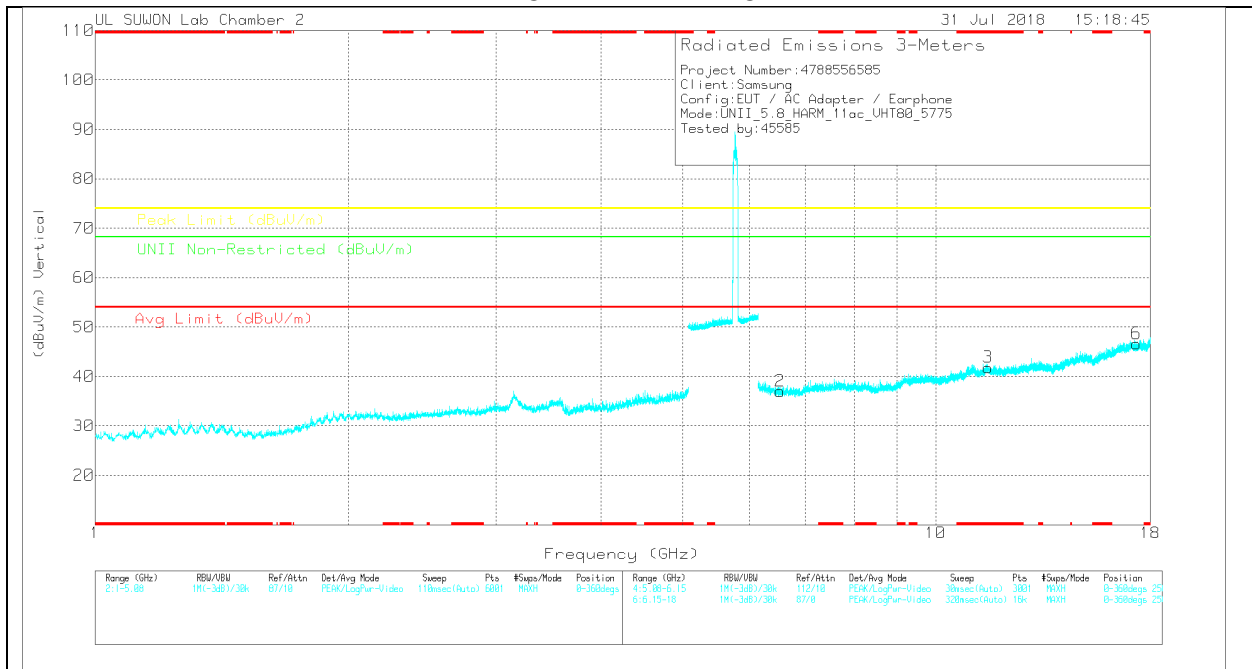
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	170531_3117[00 168724]	Path_2_10dB	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.27	Pk	34.5	-15.5	11.8	0	-35.47	26.94	-62.41	221	100	V
2	5.985	-63.39	Pk	34.7	-15.4	11.8	0	-32.29	-27	-5.29	221	100	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)	Meas Reading (dBuV)	Det	170531_3117003687_24	6GHz_HF(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)	Azimuth (Degs)	Height (cm)	Polarity
1	6.515	24.61	PK	35.1	-22.3	0	37.41	-	-	-	-	68.2	-30.79	0-360	150	H
4	*11.552	19.69	PK	38.2	-15.9	0	41.99	-	-	74	-32.01	-	-	0-360	150	H
5	17.329	18.12	PK	41.4	-13.2	0	46.32	-	-	-	-	68.2	-21.88	0-360	250	H
2	6.528	24.2	PK	35.1	-22.3	0	37	-	-	-	-	68.2	-31.2	0-360	150	V
3	*11.549	19.52	PK	38.2	-15.9	0	41.82	-	-	74	-32.18	-	-	0-360	150	V
6	17.33	18.45	PK	41.4	-13.2	0	46.65	-	-	-	-	68.2	-21.55	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).

11.5. Spurious Emissions for Simultaneous Transmission

Simultaneous TX Condition

Frequency	Supported
2.4 GHz Antenna 1 + 5 GHz Antenna 2	Yes
2.4 GHz Antenna 2 + 5 GHz Antenna 1	No
2.4 GHz Antenna 1 + 5 GHz Antenna 1	No
2.4 GHz Antenna 2 + 5 GHz Antenna 2	No

11.5.1. Worst test case condition

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	52
Frequency	2462 MHz	5260 MHz
Data Rate	1 Mbps	6 Mbps

NOTE

Max conducted power condition(channel and mode) were selected worst test case condition on each antenna. No significant emissions were detected, so after test lab. conducted with a combination of all channels in 2.4G and one channel in 5GHz, additional tests were conducted for below conditions.(with the worst channel 11 in 2.4GHz and the worst channel each band)
 All test data complied FCC technical limit.

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	40
Frequency	2462 MHz	5200 MHz
Data Rate	1 Mbps	6 Mbps

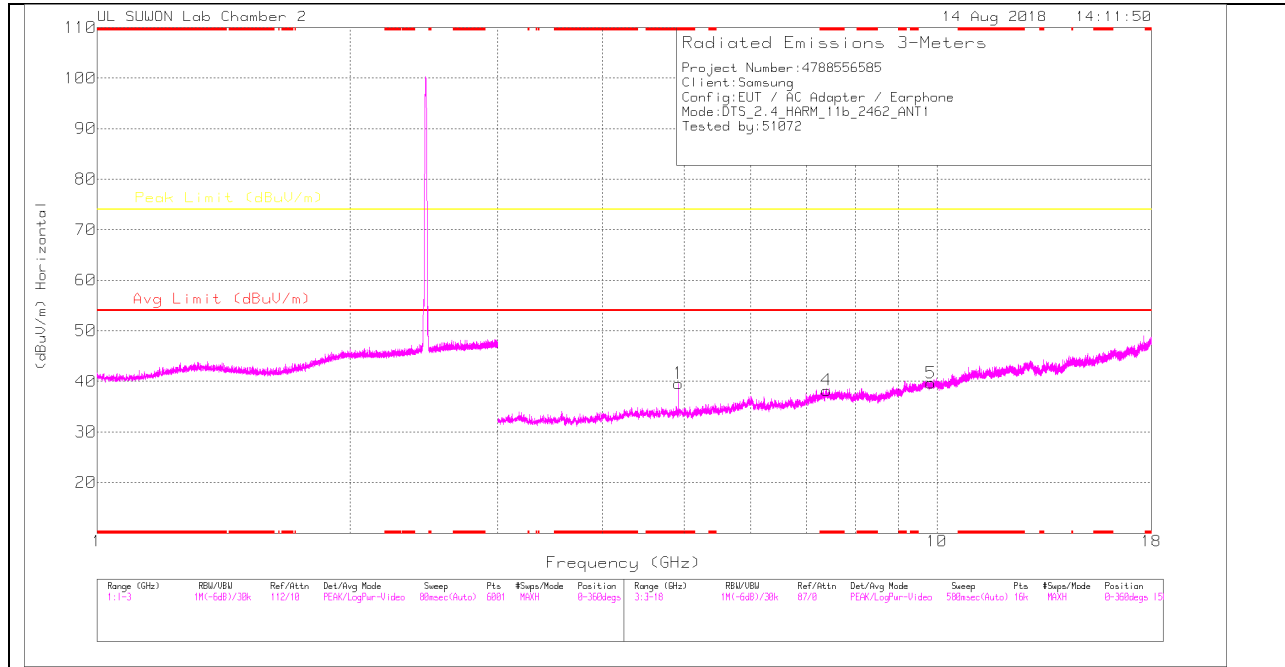
	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	100
Frequency	2462 MHz	5500 MHz
Data Rate	1 Mbps	6 Mbps

	ANTENNA 1 - 2.4GHz	ANTENNA 2 - 5GHz
Mode	802.11 b mode	802.11 a mode
Channel	11	149
Frequency	2462 MHz	5745 MHz
Data Rate	1 Mbps	6 Mbps

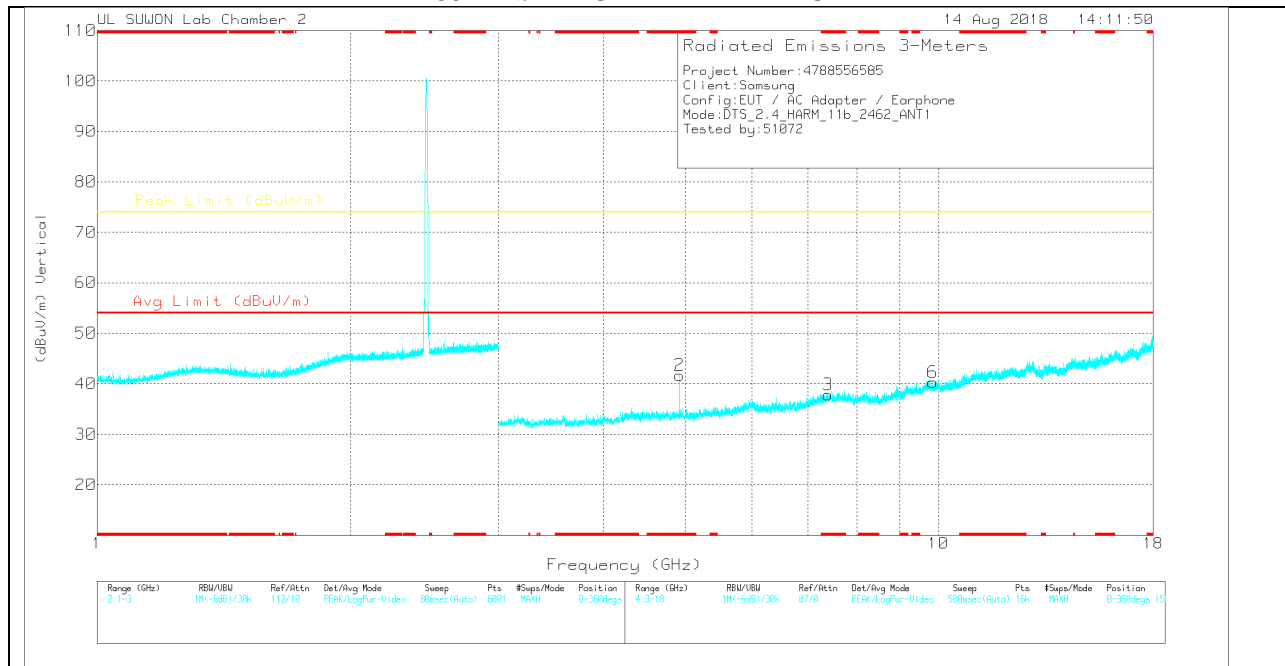
RESULTS

11.5.1.1. Spurious emission for ANTENNA 1

802.11b 11 CHANNEL HORIZONTAL



802.11b 11 CHANNEL VERTICAL



802.11g 1 CHANNEL VERTICAL

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.924	32.89	PK	34	-27.3	0	39.59	-	-	74	-34.41	0-360	150	H
4	* 7.39	26.24	PK	36.2	-24.2	0	38.24	-	-	74	-35.76	0-360	150	H
5	9.841	24.16	PK	37.3	-21.8	0	39.66	-	-	74	-34.34	0-360	150	H
2	* 4.924	35.01	PK	34	-27.3	0	41.71	-	-	74	-32.29	0-360	250	V
3	* 7.388	25.93	PK	36.2	-24.3	0	37.83	-	-	74	-36.17	0-360	150	V
6	9.846	24.81	PK	37.3	-21.8	0	40.31	-	-	74	-33.69	0-360	250	V

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

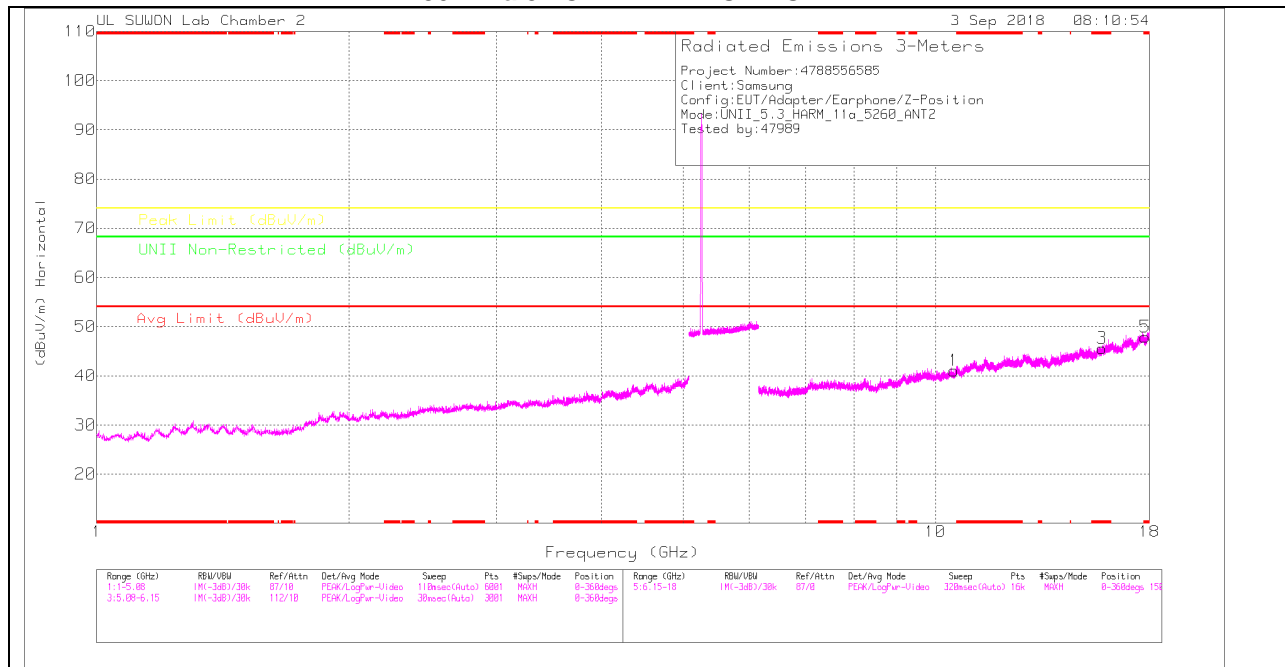
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	38.99	PK2	34	-27.3	0	45.69	-	-	74	-28.31	270	279	H
* 4.924	32.53	MAv1	34	-27.3	0	39.23	54	-14.77	-	-	270	279	H
* 4.924	40.42	PK2	34	-27.3	0	47.12	-	-	74	-26.88	81	249	V
* 4.924	34.99	MAv1	34	-27.3	0	41.69	54	-12.31	-	-	81	249	V

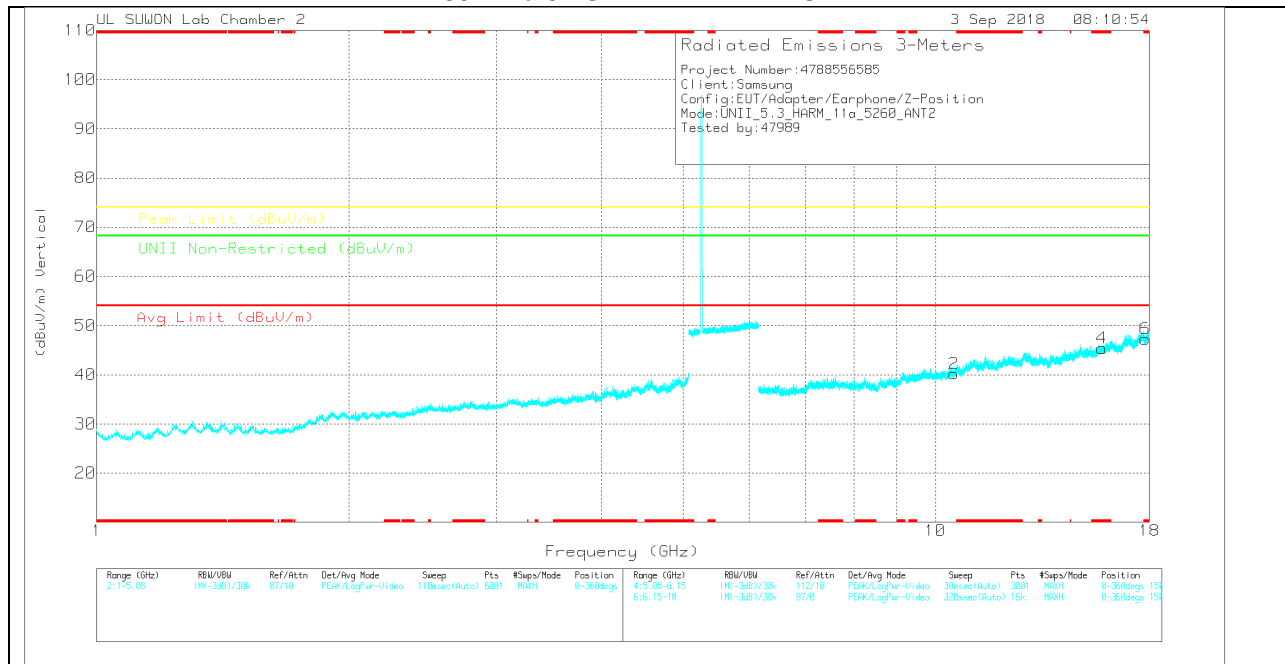
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

11.5.1.2. Spurious emission for ANTENNA 2

802.11a 52 CHANNEL HORIZONTAL



802.11a 52 CHANNEL VERTICAL



802.11a 52 CHANNEL DATA

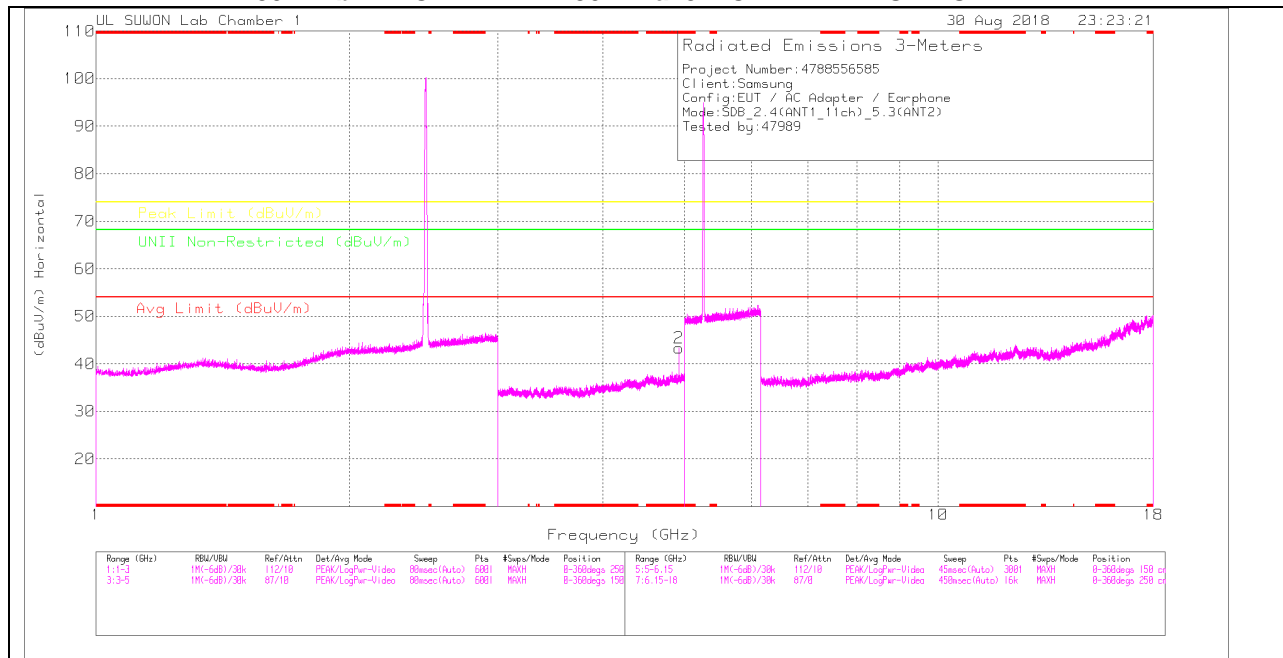
Trace Markers

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)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	10.516	24.04	PK	37.7	-20.7	0	41.04	-	-	-	-	68.2	-27.16	0-360	150	H
3	* 15.804	25.1	PK	40.4	-19.9	0	45.6	-	-	74	-28.4	-	-	0-360	150	H
5	* 17.789	23.9	PK	41.5	-17.5	0	47.9	-	-	74	-26.1	-	-	0-360	150	H
2	10.514	23.21	PK	37.7	-20.7	0	40.21	-	-	-	-	68.2	-27.99	0-360	250	V
4	* 15.795	24.98	PK	40.3	-19.9	0	45.38	-	-	74	-28.62	-	-	0-360	250	V
6	* 17.79	23.3	PK	41.5	-17.5	0	47.3	-	-	74	-26.7	-	-	0-360	150	V

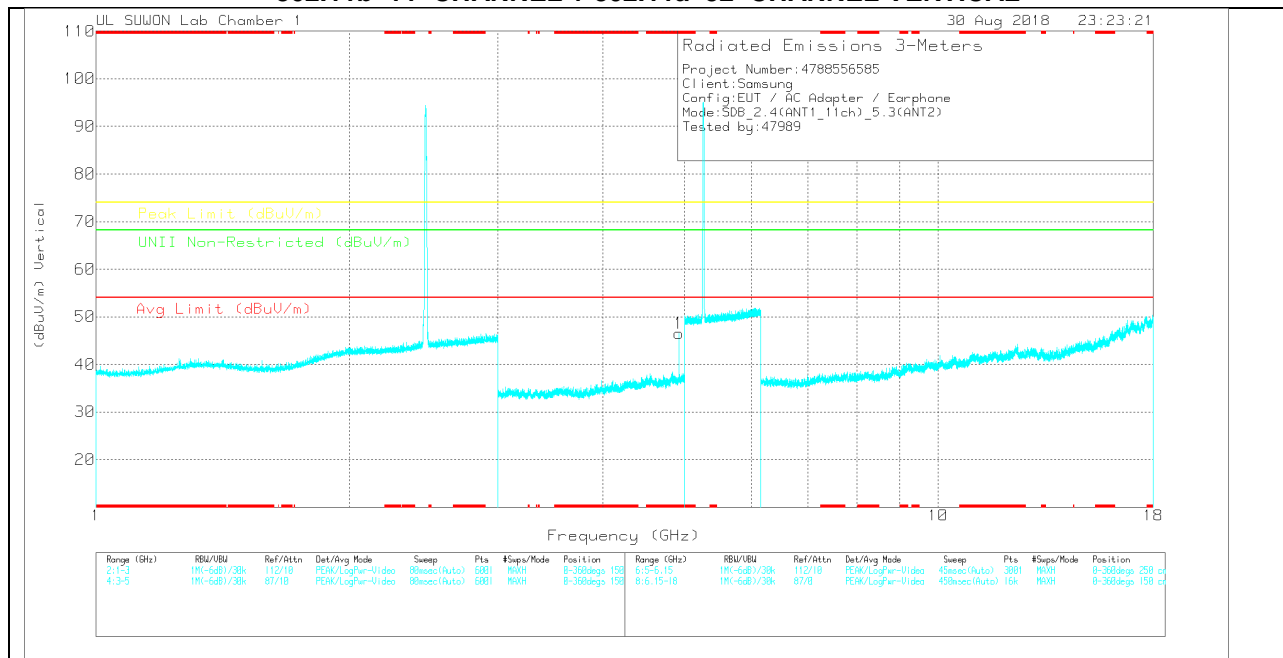
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

11.5.1.3. Spurious emission for Simultaneous Transmission

802.11b 11 CHANNEL + 802.11a 52 CHANNEL HORIZONTAL



802.11b 11 CHANNEL + 802.11a 52 CHANNEL VERTICAL



802.11b 11 CHANNEL + 802.11a 52 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_15dB	DTS_Noise	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)	Altitude (Degs)	Height (cm)	Polarity
2	* 4.924	39.15	PK	34.2	-30.4	.4	0	43.35	-	-	74	-30.65	-	-	0-360	150	H
1	* 4.924	42.39	PK	34.2	-30.4	.4	0	46.49	-	-	74	-27.51	-	-	0-360	250	V

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

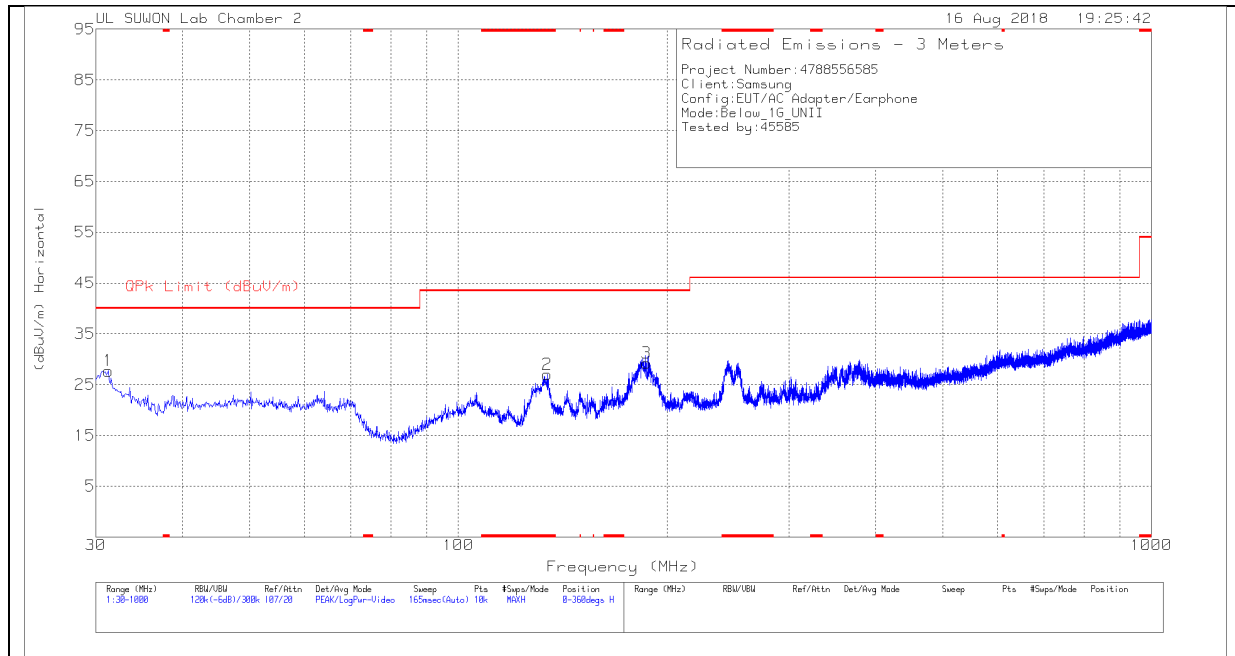
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_15dB	DTS_Noise	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)	Altitude (Degs)	Height (cm)	Polarity	
Z-Position																	
* 4.924	46.83	PK2	34.2	-30.4	.4	0	51.03	-	-	74	-22.97	-	-	115	106	H	
* 4.924	40.79	MAv1	34.2	-30.4	.4	0	44.99	54	-9.01	-	-	-	-	115	106	H	
* 4.924	47.53	PK2	34.2	-30.4	.4	0	51.73	-	-	74	-22.27	-	-	269	209	V	
* 4.924	42.21	MAv1	34.2	-30.4	.4	0	46.41	54	-7.59	-	-	-	-	269	209	V	
X-Position																	
* 4.924	43.99	PK2	34.2	-30.4	.4	0	48.19	-	-	74	-25.81	-	-	224	120	V	
* 4.924	35.88	MAv1	34.2	-30.4	.4	0	40.08	54	-13.92	-	-	-	-	224	120	V	
* 4.924	48.32	PK2	34.2	-30.4	.4	0	52.52	-	-	74	-21.48	-	-	48	100	H	
* 4.924	43.68	MAv1	34.2	-30.4	.4	0	47.88	54	-6.12	-	-	-	-	48	100	H	

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

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

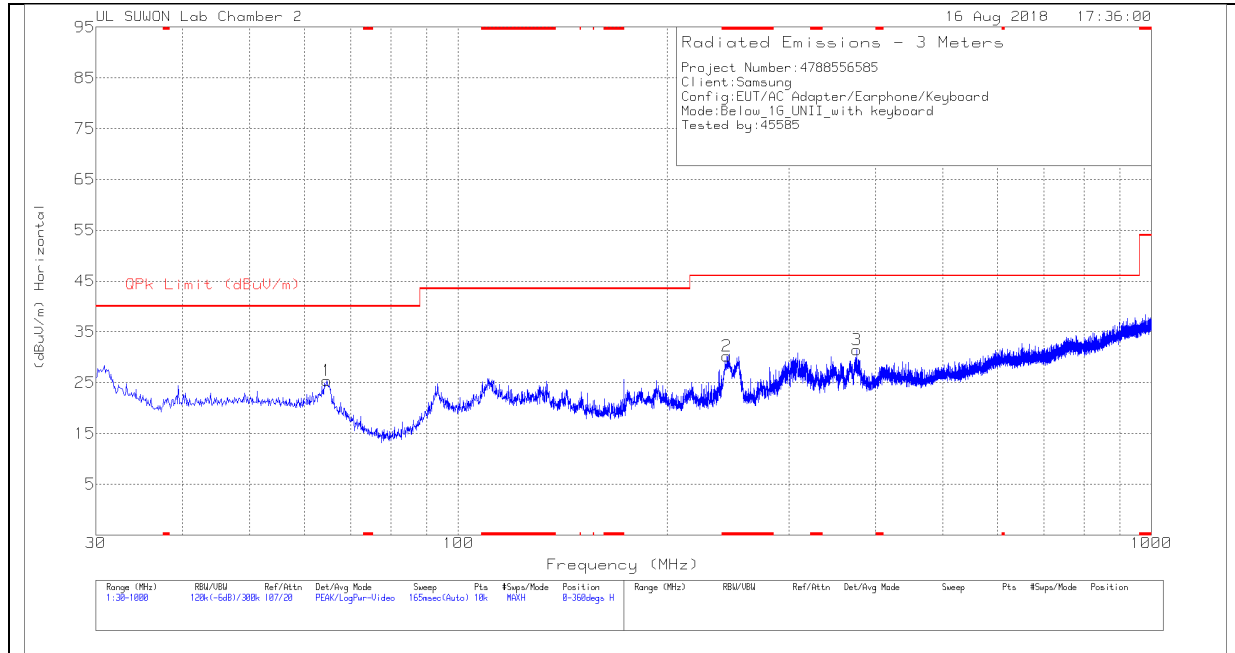
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.261	44.19	Pk	15.5	-32	27.69	40	-12.31	0-360	300	H
2	* 134.372	44.15	Pk	14.1	-31.2	27.05	43.52	-16.47	0-360	200	H
3	186.946	43.54	Pk	16.6	-30.9	29.24	43.52	-14.28	0-360	100	H
4	30.97	53.32	Pk	15.6	-31.9	37.02	40	-2.98	0-360	100	V
5	62.301	42.55	Pk	18	-31.7	28.85	40	-11.15	0-360	100	V
6	* 252.324	41.58	Pk	19.1	-30.6	30.08	46.02	-15.94	0-360	100	V

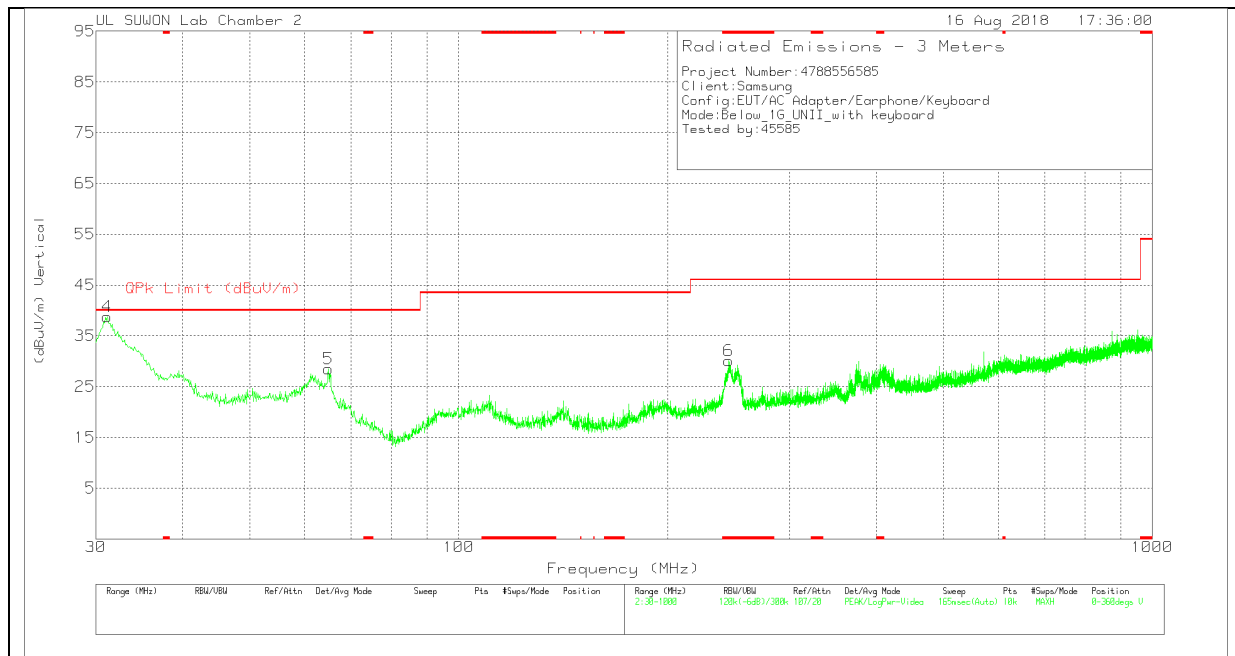
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (EQUIPPED WITH KEYBOARD, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (EQUIPPED WITH KEYBOARD, VERTICAL)



Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	64.629	39.85	Pk	17.3	-31.7	25.45	40	-14.55	0-360	400	H
2	* 244.079	42.22	Pk	18.7	-30.7	30.22	46.02	-15.8	0-360	100	H
3	375.514	40.69	Pk	21	-30.2	31.49	46.02	-14.53	0-360	100	H
4	31.164	55.31	Pk	15.5	-32	38.81	40	-1.19	0-360	100	V
5	64.92	42.96	Pk	17.2	-31.7	28.46	40	-11.54	0-360	100	V
6	* 245.146	41.89	Pk	18.8	-30.6	30.09	46.02	-15.93	0-360	100	V

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

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
62.201	37.48	Qp	18	-31.7	23.78	40	-16.22	280	100	V

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

Qp - Quasi-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.

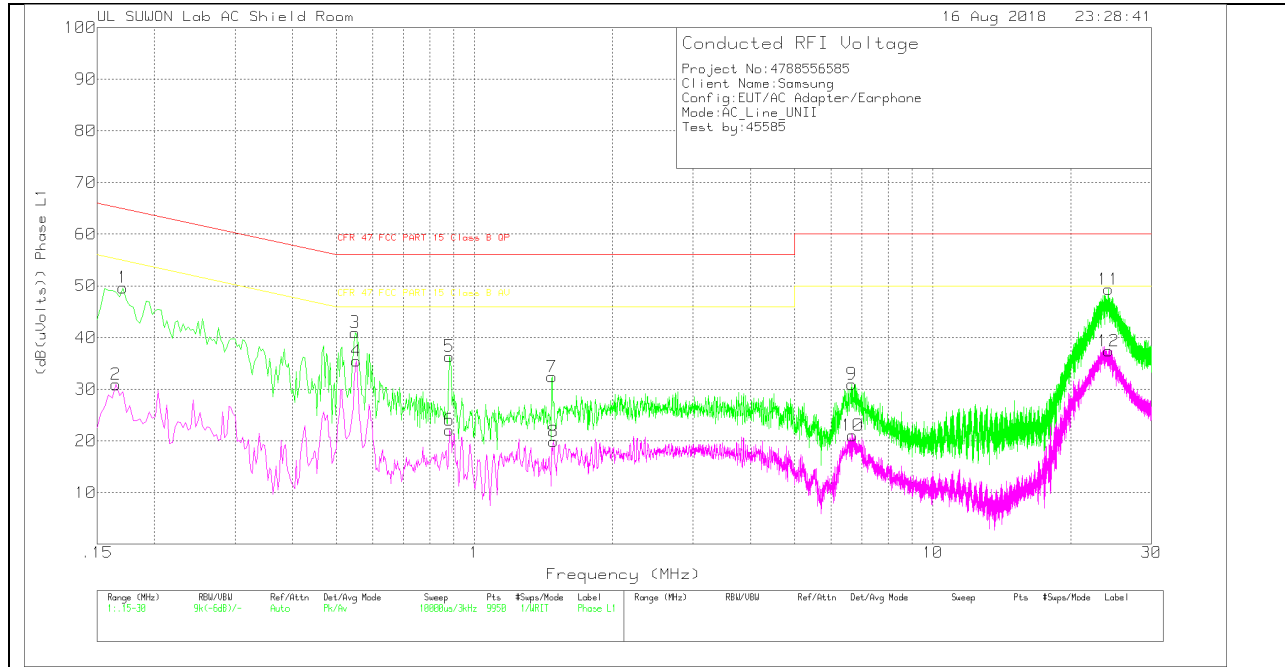
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

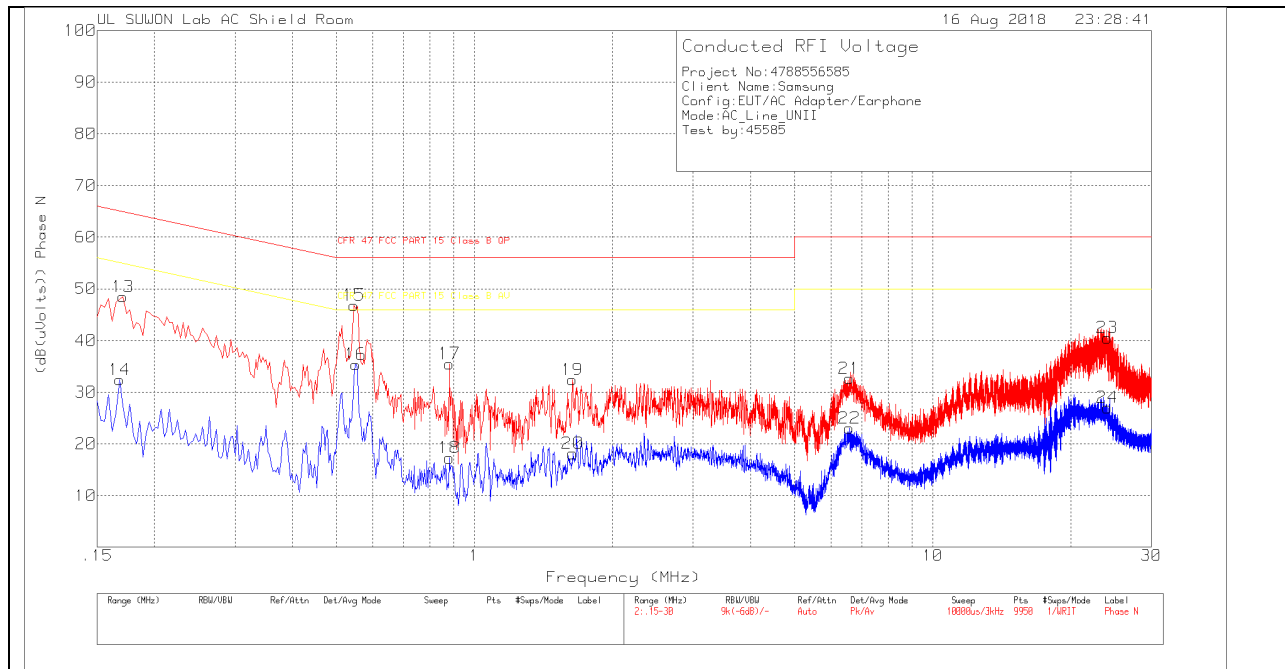
Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_wit h extension	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	.171	39.45	Pk	10	.2	49.65	64.91	-15.26	-	-
2	.165	20.82	Av	10	.1	30.92	-	-	55.21	-24.29
3	.549	30.96	Pk	9.8	.2	40.96	56	-15.04	-	-
4	.552	25.47	Av	9.8	.2	35.47	-	-	46	-10.53
5	.882	26.33	Pk	9.7	.3	36.33	56	-19.67	-	-
6	.882	12.11	Av	9.7	.3	22.11	-	-	46	-23.89
7	1.476	22.21	Pk	9.9	.3	32.41	56	-23.59	-	-
8	1.488	9.67	Av	9.9	.3	19.87	-	-	46	-26.13
9	6.663	21.01	Pk	9.7	.3	31.01	60	-28.99	-	-
10	6.687	11.06	Av	9.7	.3	21.06	-	-	50	-28.94
11	24.198	38.73	Pk	10.2	.4	49.33	60	-10.67	-	-
12	24.183	26.81	Av	10.2	.4	37.41	-	-	50	-12.59

Pk - Peak detector
 Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

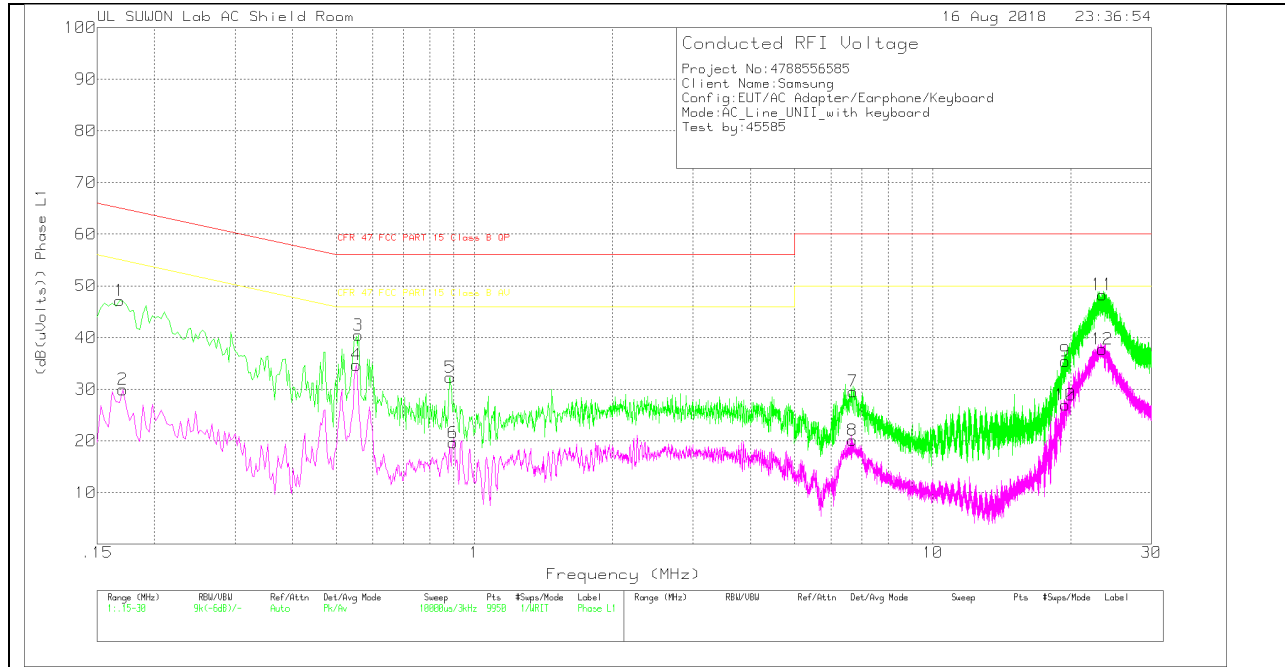
Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	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	.171	38.29	Pk	10	.2	48.49	64.91	-16.42	-	-
14	.168	22.31	Av	10	.1	32.41	-	-	55.06	-22.65
15	.546	36.82	Pk	9.8	.2	46.82	56	-9.18	-	-
16	.5505	25.37	Av	9.8	.2	35.37	-	-	46	-10.63
17	.882	25.51	Pk	9.7	.3	35.51	56	-20.49	-	-
18	.882	7.28	Av	9.7	.3	17.28	-	-	46	-28.72
19	1.635	22.2	Pk	9.9	.3	32.4	56	-23.6	-	-
20	1.638	7.93	Av	9.9	.3	18.13	-	-	46	-27.87
21	6.579	22.53	Pk	9.8	.3	32.63	60	-27.37	-	-
22	6.582	12.94	Av	9.8	.3	23.04	-	-	50	-26.96
23	24.057	29.92	Pk	10.2	.4	40.52	60	-19.48	-	-
24	24.03	16.43	Av	10.2	.4	27.03	-	-	50	-22.97

Pk - Peak detector
 Av - Average detection

6 WORST EMISSIONS(Equipped with keyboard)

LINE 1 PLOT



LINE 1 RESULTS

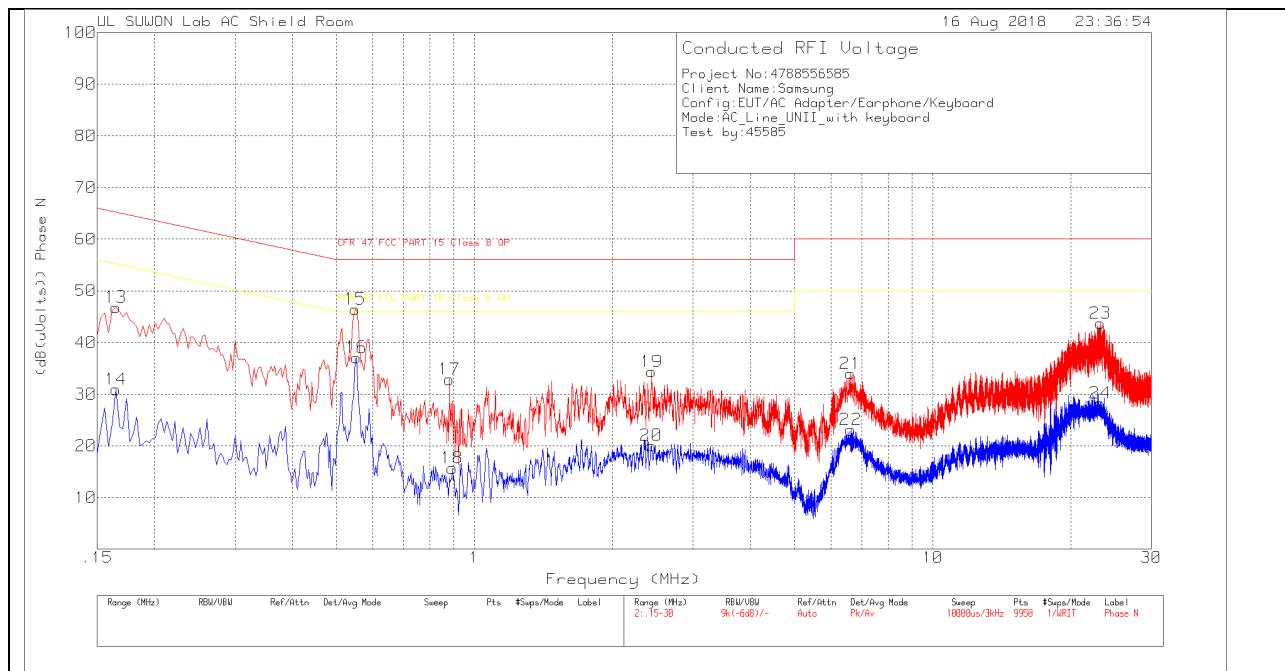
Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_wit h extension	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	.168	37.02	Pk	10	.1	47.12	65.06	-17.94	-	-
2	.171	19.74	Av	10	.2	29.94	-	-	54.91	-24.97
3	.558	30.43	Pk	9.8	.2	40.43	56	-15.57	-	-
4	.552	24.69	Av	9.8	.2	34.69	-	-	46	-11.31
5	.885	22.27	Pk	9.7	.3	32.27	56	-23.73	-	-
6	.897	9.65	Av	9.7	.3	19.65	-	-	46	-26.35
7	6.693	19.56	Pk	9.7	.3	29.56	60	-30.44	-	-
8	6.678	10.1	Av	9.7	.3	20.1	-	-	50	-29.9
9	19.464	24.91	Pk	10.1	.4	35.41	60	-24.59	-	-
10	19.455	16.45	Av	10.1	.4	26.95	-	-	50	-23.05
11	23.46	37.67	Pk	10.2	.4	48.27	60	-11.73	-	-
12	23.442	27.13	Av	10.2	.4	37.73	-	-	50	-12.27

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	101837_N_with extension	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	.165	36.71	Pk	10	.1	46.81	65.21	-18.4	-	-
14	.165	20.82	Av	10	.1	30.92	-	-	55.21	-24.29
15	.549	36.46	Pk	9.8	.2	46.46	56	-9.54	-	-
16	.552	27.08	Av	9.8	.2	37.08	-	-	46	-8.92
17	.882	22.87	Pk	9.7	.3	32.87	56	-23.13	-	-
18	.894	5.69	Av	9.7	.3	15.69	-	-	46	-30.31
19	2.436	24.17	Pk	9.9	.3	34.37	56	-21.63	-	-
20	2.43	9.86	Av	9.9	.3	20.06	-	-	46	-25.94
21	6.615	23.88	Pk	9.8	.3	33.98	60	-26.02	-	-
22	6.627	13.02	Av	9.8	.3	23.12	-	-	50	-26.88
23	23.223	33.14	Pk	10.2	.4	43.74	60	-16.26	-	-
24	23.217	17.65	Av	10.2	.4	28.25	-	-	50	-21.75

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
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna</p> <p>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.</p> <p>Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.</p>	

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)
<p>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.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>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.</p>	

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

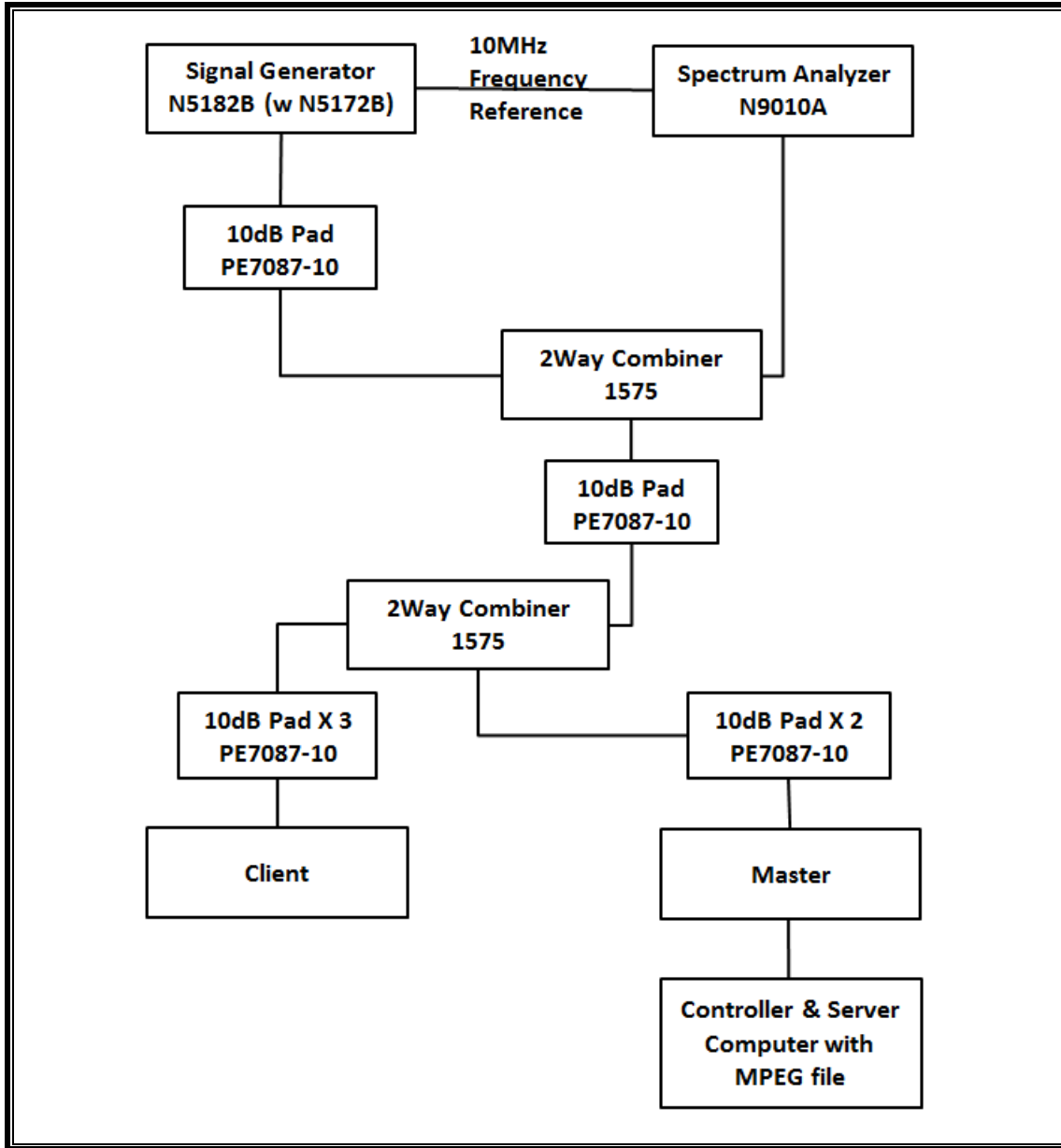
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

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.

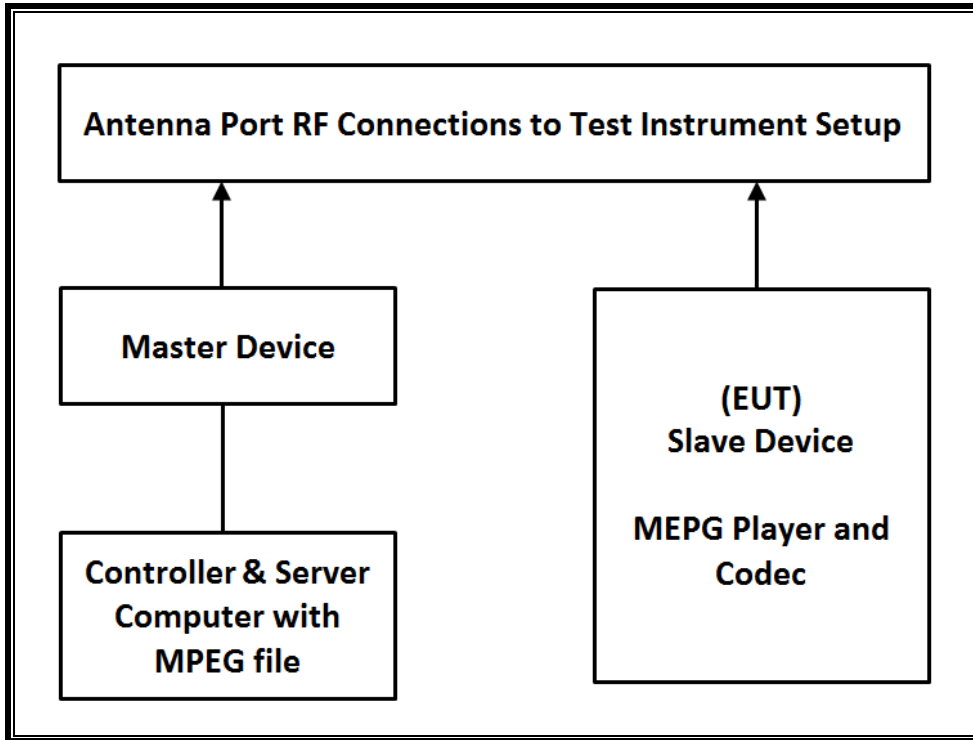
TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	S/N	Cal Due	Next Cal Due
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	08-07-18	08-07-19
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	08-07-18	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 15.34 dBm in the 5250-5350 MHz band and 15.21 dBm in the 5470-5725 MHz band.

The antenna assembly utilized two antenna.

Gain of antenna 1 : -0.4 dBi for UNII 2A and -0.3 dBi for UNII 2C.

Gain of antenna 2 : -0.3 dBi for UNII 2A and -2.9 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.

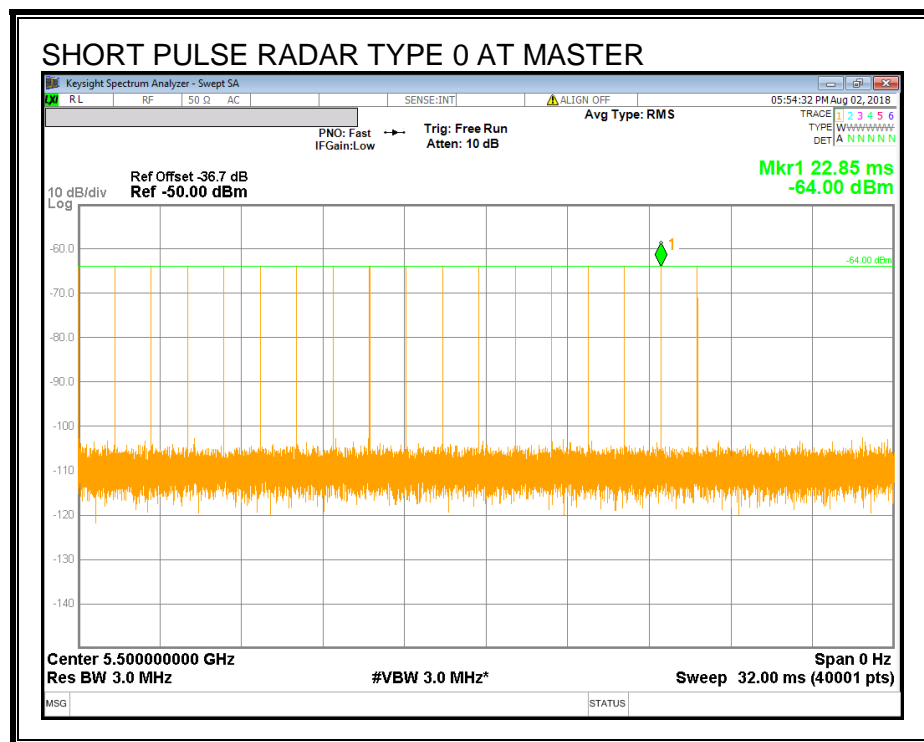
14.2. RESULTS FOR 20 MHz BANDWIDTH

14.2.1. TEST CHANNEL

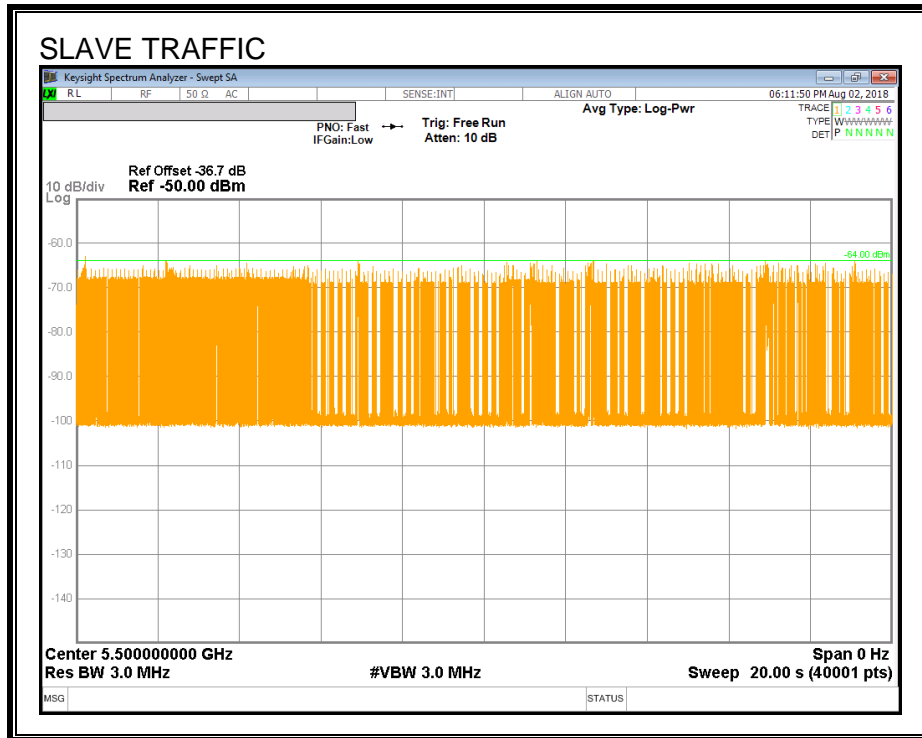
All tests were performed at a channel center frequency of 5500 MHz.

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

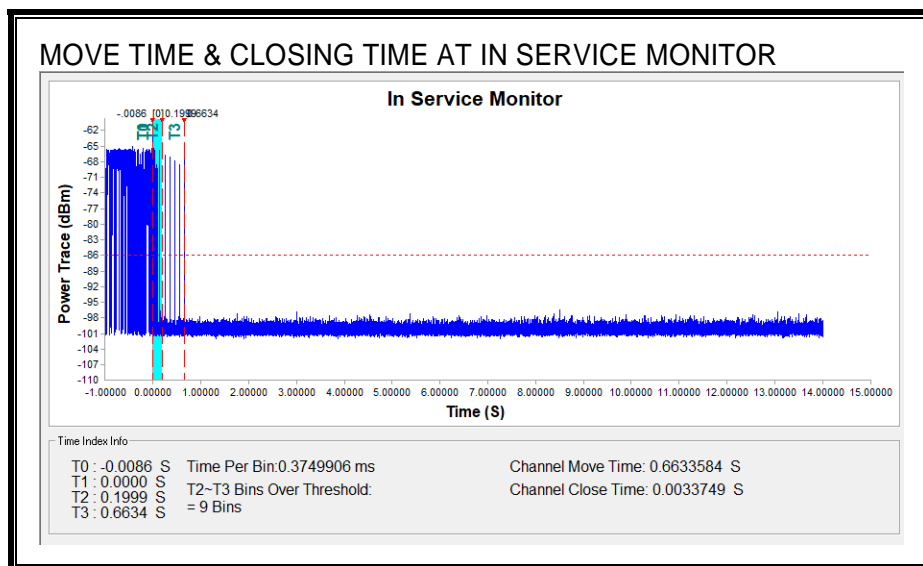
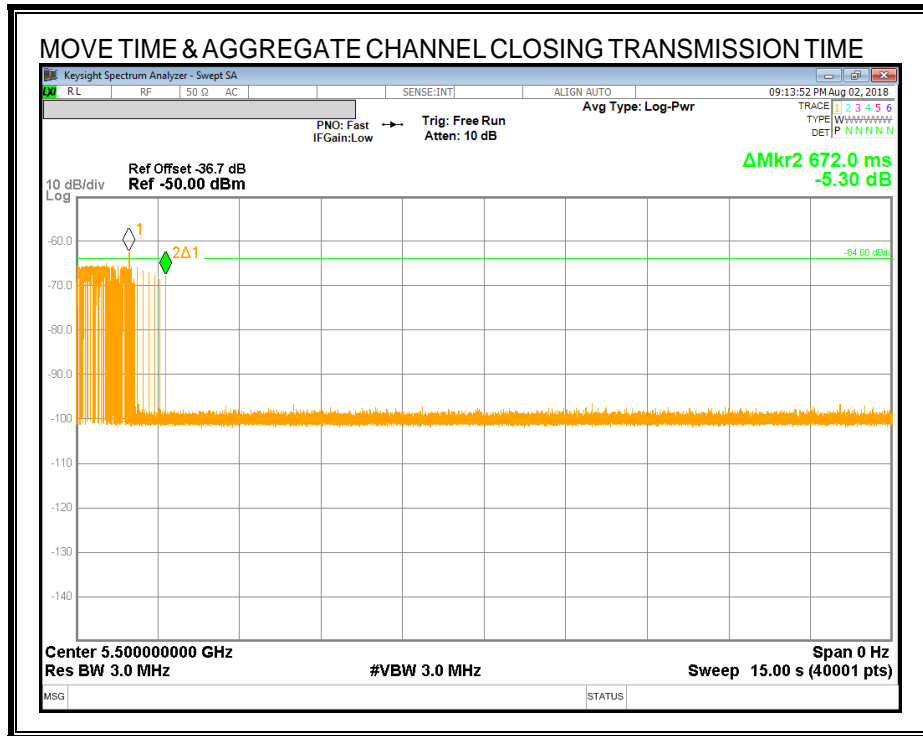
Channel Move Time (sec)	Limit (sec)
0.663	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
3.375	60

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

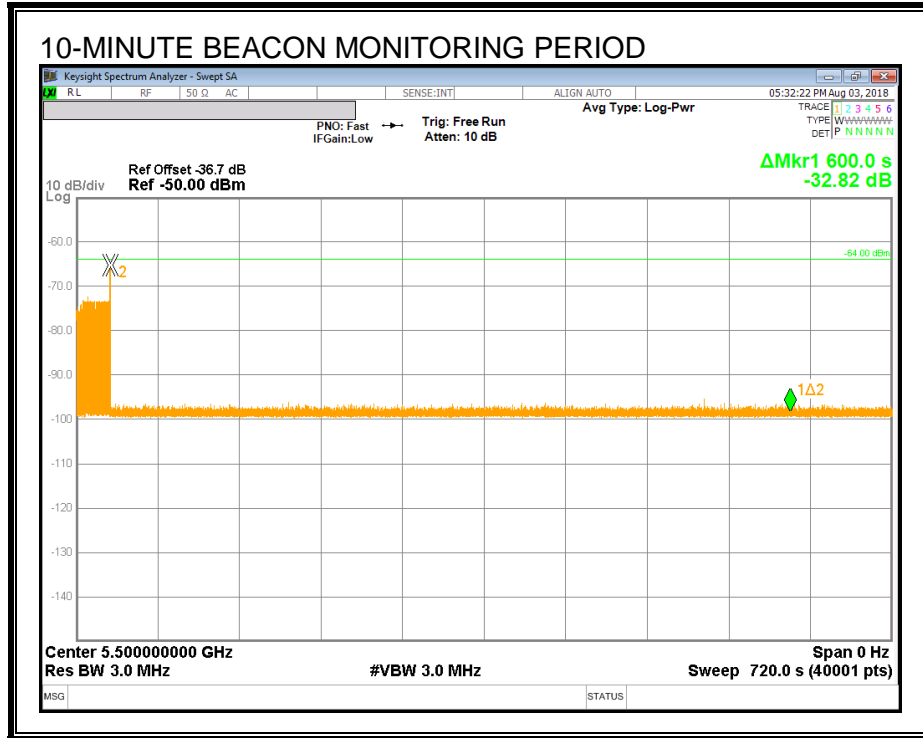
No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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



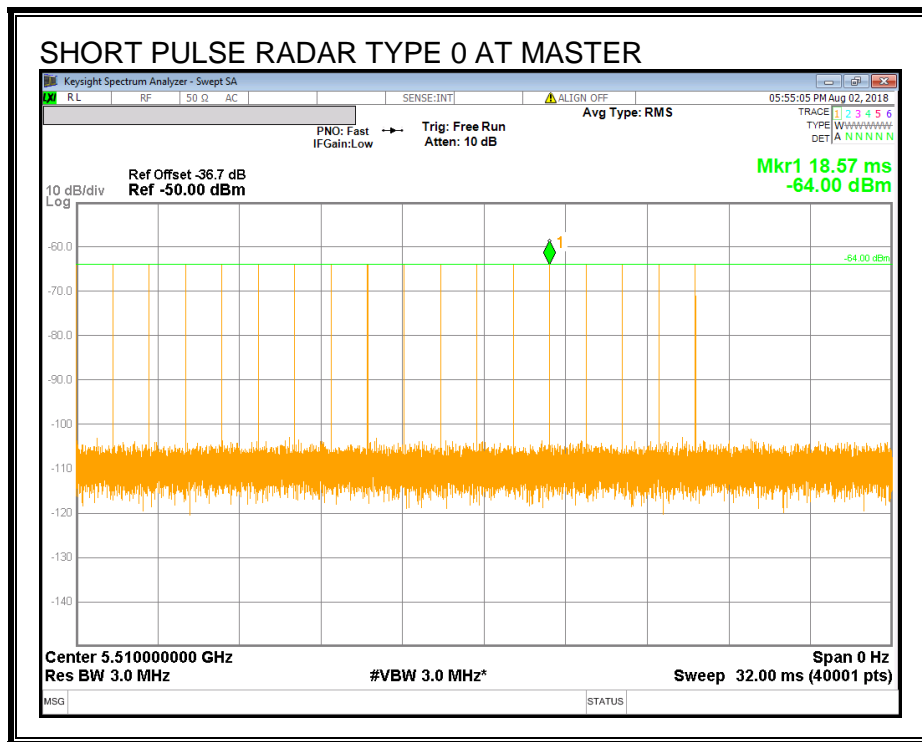
14.3. RESULTS FOR 40 MHz BANDWIDTH

14.3.1. TEST CHANNEL

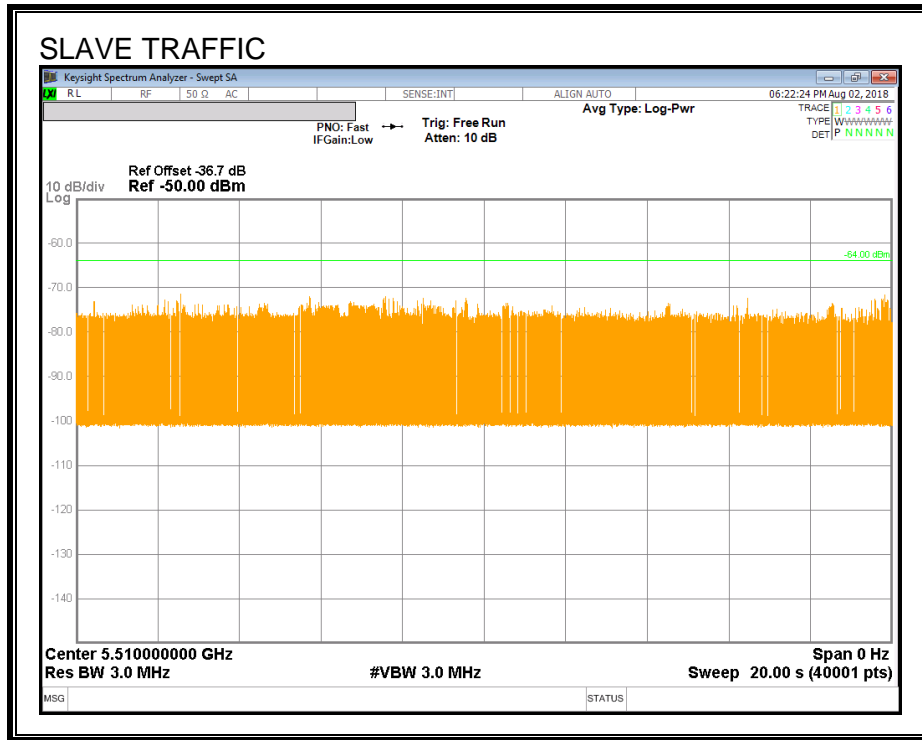
All tests were performed at a channel center frequency of 5510 MHz.

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

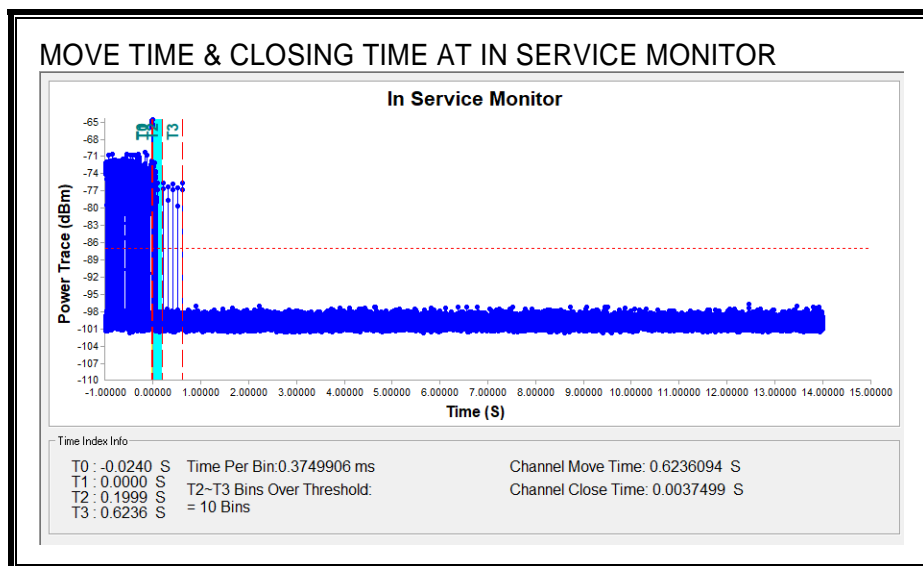
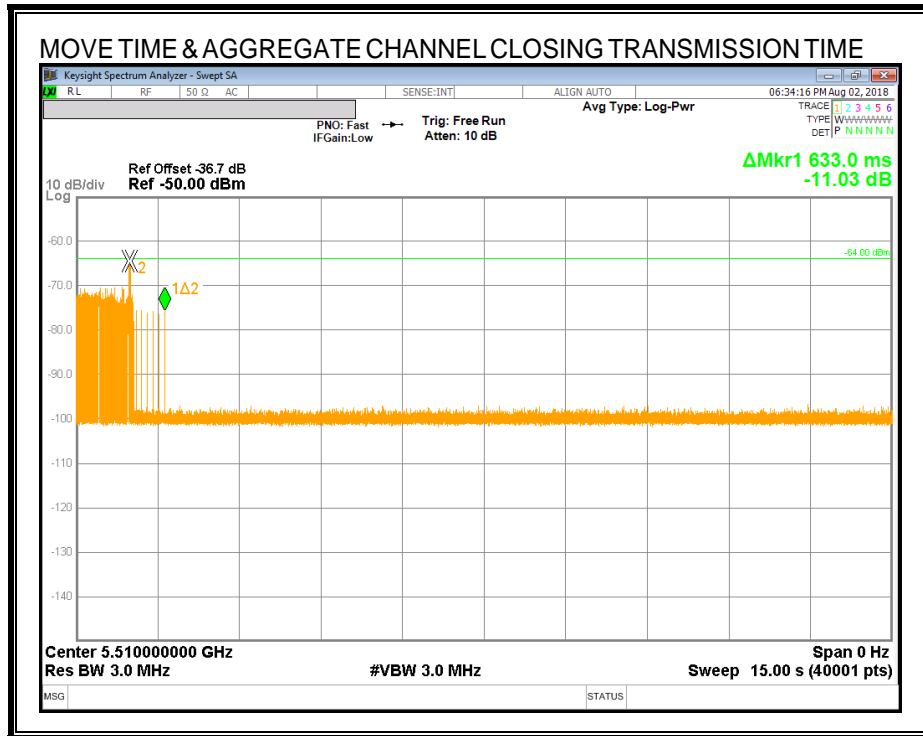
Channel Move Time (sec)	Limit (sec)
0.624	10

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

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

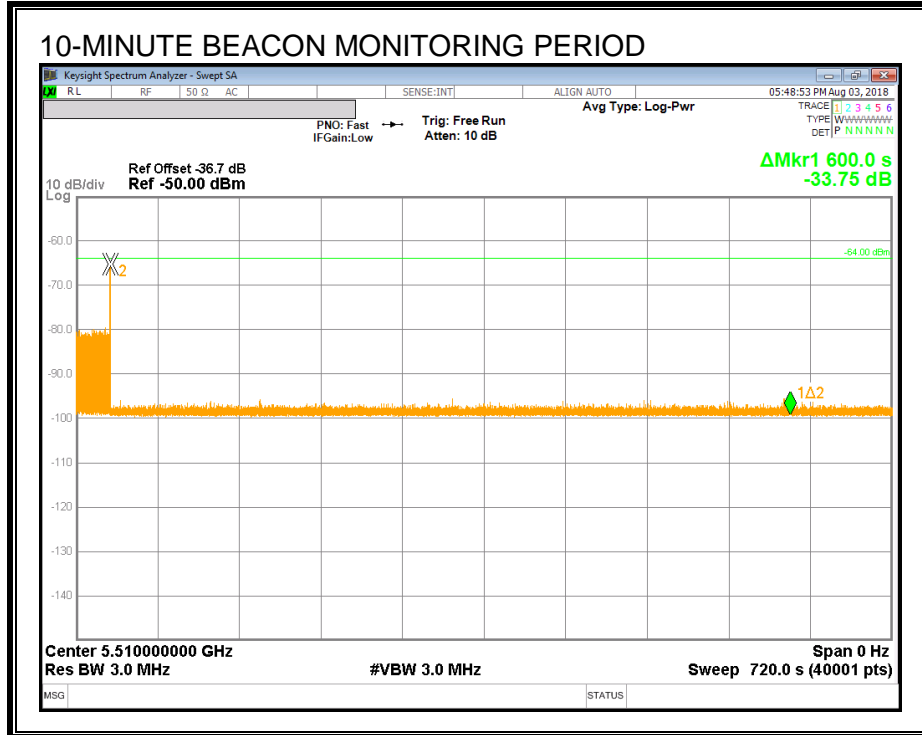
No transmissions are observed during the aggregate monitoring period.



NON-OCCUPANCY PERIOD

RESULTS

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



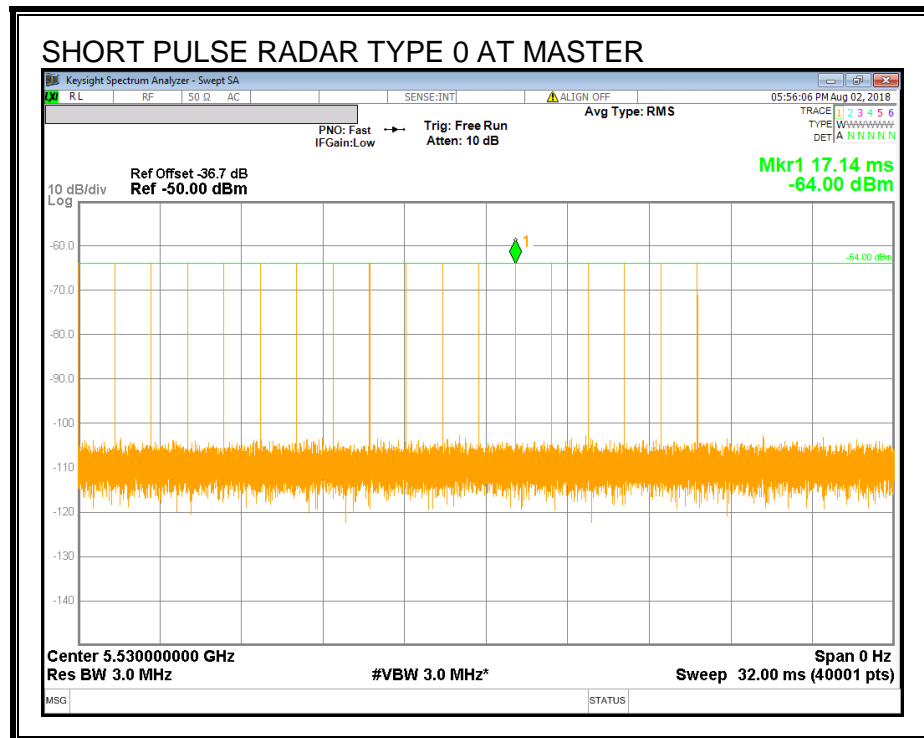
14.4. RESULTS FOR 80 MHz BANDWIDTH

14.4.1. TEST CHANNEL

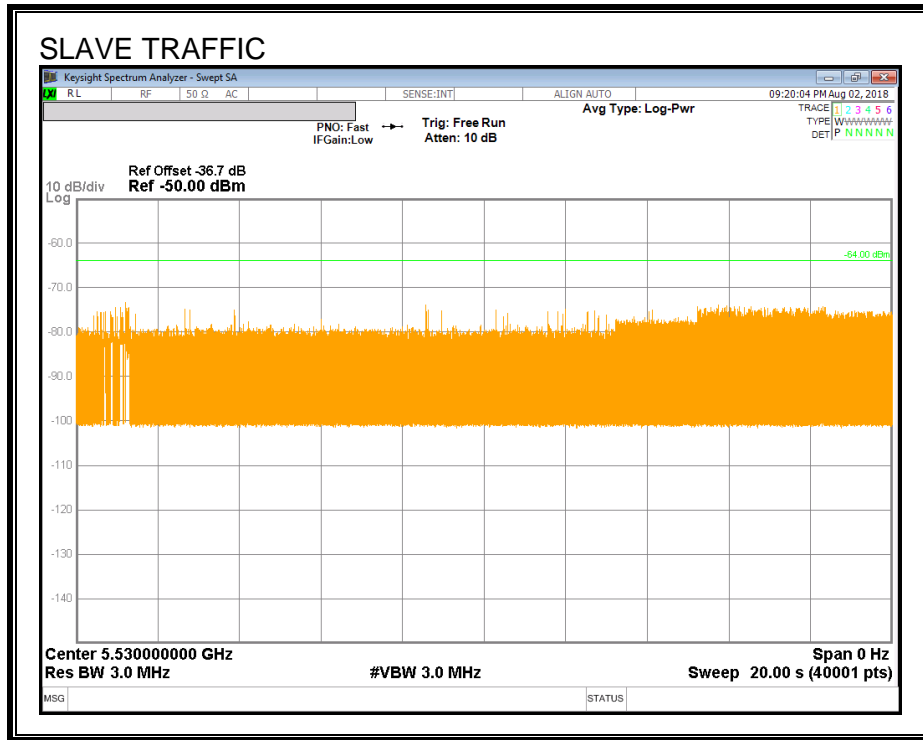
All tests were performed at a channel center frequency of 5530 MHz.

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

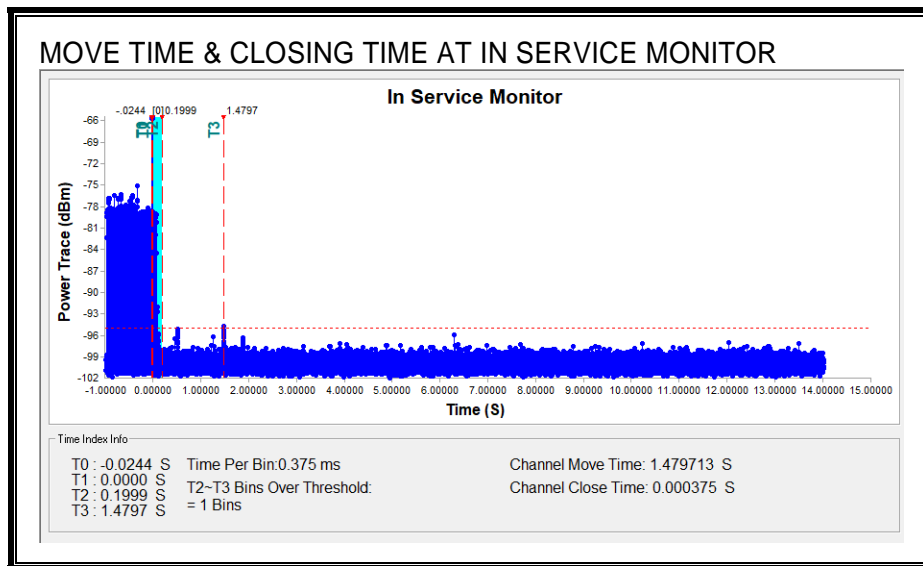
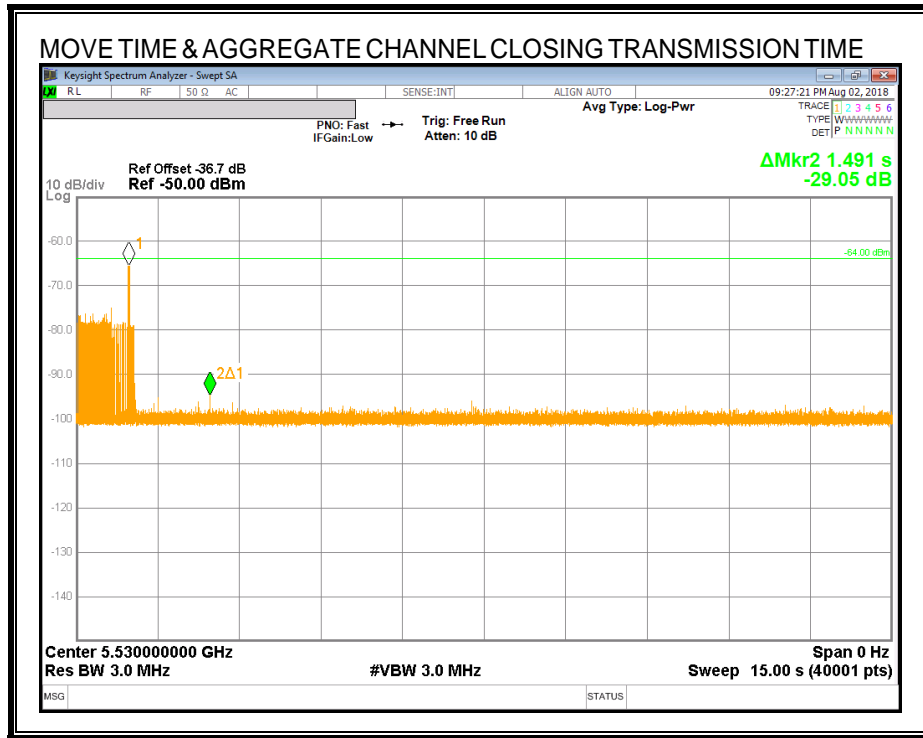
Channel Move Time (sec)	Limit (sec)
1.480	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.375	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.

