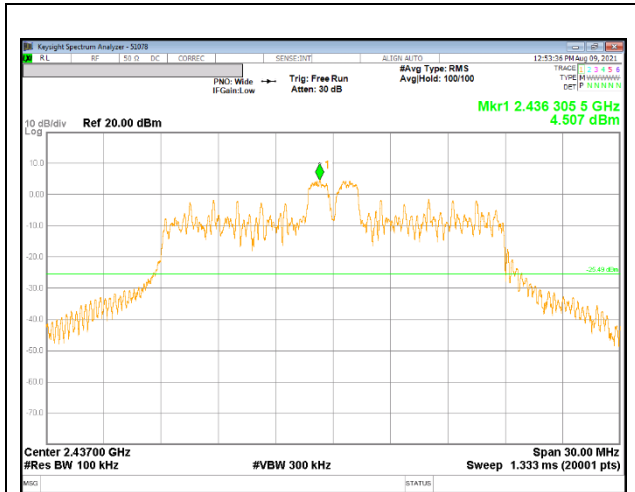
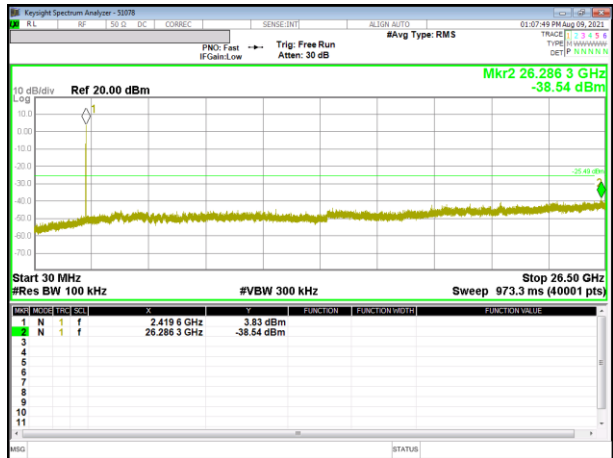


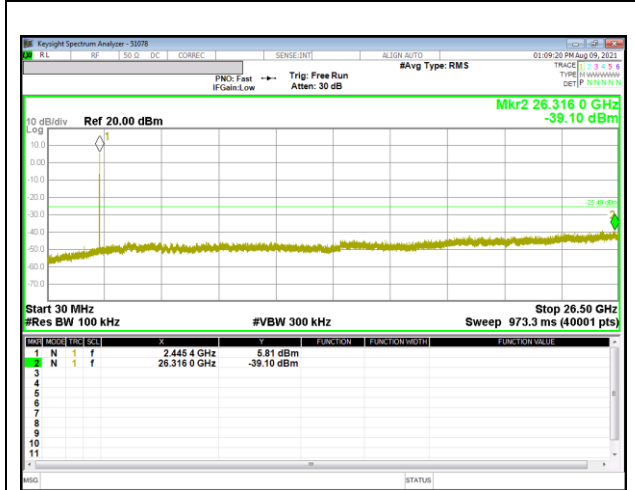
2TX Antenna 2 MODE



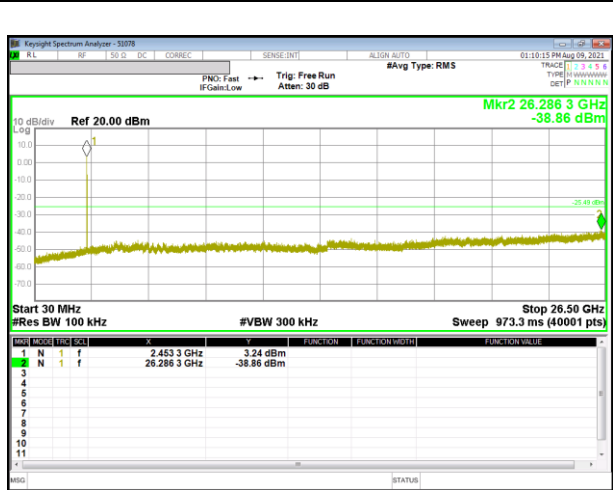
In-Band Reference Level



Out-Of-Band 1 Channel(8RU)



Out-Of-Band 6 Channel(8RU)



Out-Of-Band 11 Channel(0RU)

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted bandedge, Final detection of spurious harmonic emissions)

Duty cycle factor = $10\log(1/x)$ For this sample:

802.11b SISO mode = 0 dB (duty cycle > 98%);
802.11g MIMO mode = 0 dB (duty cycle > 98%);
802.11n(HT20) MIMO mode = 0 dB (duty cycle > 98%);
802.11ax(HE20) MIMO SU mode = 0 dB (duty cycle > 98%);
802.11ax(HE20) MIMO 26 Tone mode = 0 dB (duty cycle > 98%);

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9 kHz to 30 MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

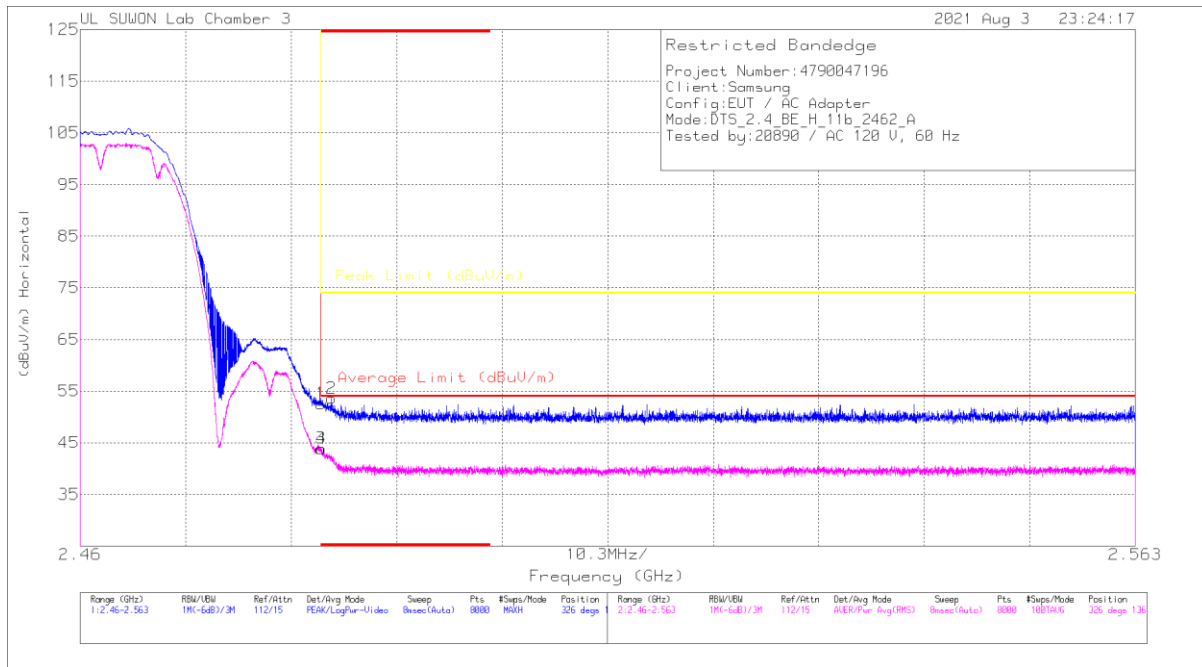
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (WORST CASE: 11 CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV/m)	Det	3117_00218957	10dB_ATT[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	* 2.4835	44.64	Pk	32.9	-25	0	52.54	-	-	74	-21.46	326	136	H
2	* 2.48453	45.68	Pk	32.9	-25	0	53.68	-	-	74	-20.42	326	136	H
3	* 2.4835	36.02	RMS	32.9	-25	0	43.92	54	-10.08	-	-	326	136	H
4	* 2.48353	35.94	RMS	32.9	-25	0	43.84	54	-10.16	-	-	326	136	H

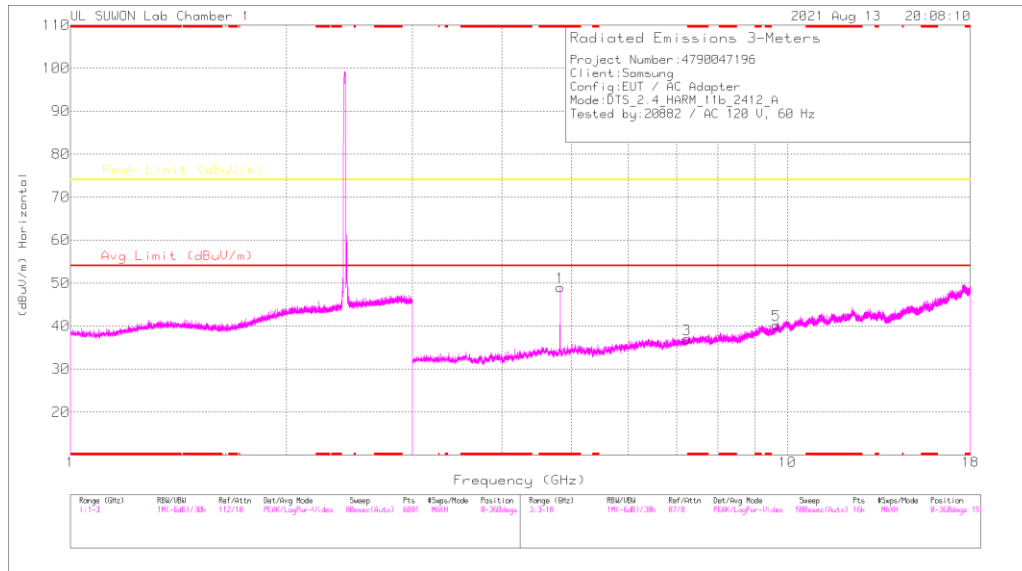
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE TEST DATA

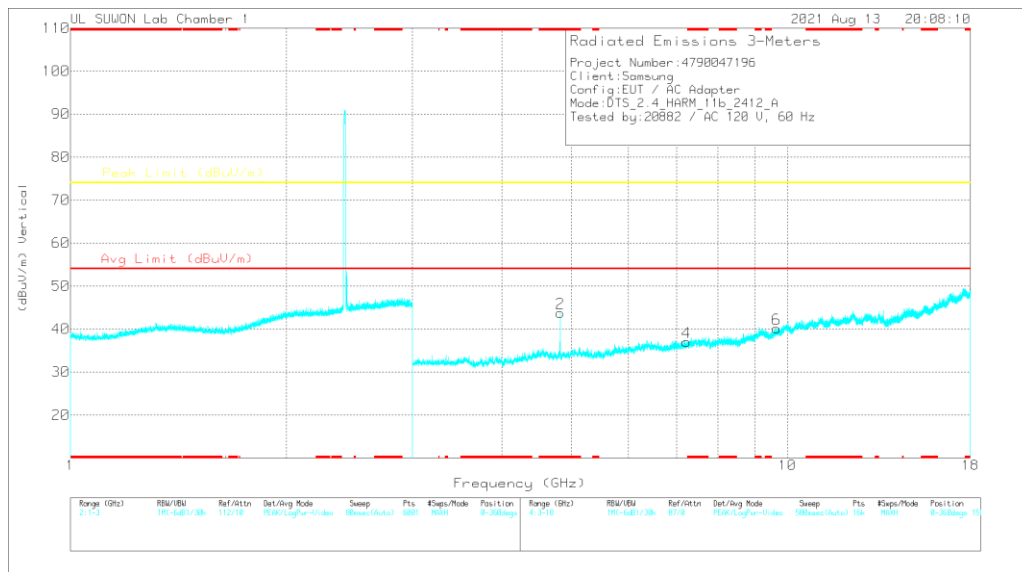
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	42.17	Pk	32.80	-25.20	0.00	49.77	-	-	74.00	-24.23	13	191	H
		2.36586	44.59	Pk	32.70	-25.20	0.00	52.09	-	-	74.00	-21.91	13	191	H
		* 2.39	32.67	RMS	32.80	-25.20	0.00	40.27	54.00	-13.73	-	-	13	191	H
		* 2.38971	33.28	RMS	32.80	-25.20	0.00	40.88	54.00	-13.12	-	-	13	191	H
		* 2.39	42.47	Pk	32.80	-25.20	0.00	50.07	-	-	74.00	-23.93	246	398	V
		2.37864	45.05	Pk	32.70	-25.20	0.00	52.55	-	-	74.00	-21.45	246	398	V
		* 2.39	31.73	RMS	32.80	-25.20	0.00	39.33	54.00	-14.67	-	-	246	398	V
		* 2.3791	33.03	RMS	32.70	-25.20	0.00	40.53	54.00	-13.47	-	-	246	398	V
		* 2.4835	44.64	Pk	32.90	-25.00	0.00	52.54	-	-	74.00	-21.46	326	136	H
		2.48453	45.68	Pk	32.90	-25.00	0.00	53.58	-	-	74.00	-20.42	326	136	H
2462	MIMO	* 2.4835	36.02	RMS	32.90	-25.00	0.00	43.92	54.00	-10.08	-	-	326	136	H
		2.48353	35.94	RMS	32.90	-25.00	0.00	43.84	54.00	-10.16	-	-	326	136	H
		* 2.4835	43.39	Pk	32.90	-25.00	0.00	51.29	-	-	74.00	-22.71	236	378	V
		2.546	45.10	Pk	32.90	-25.00	0.00	53.00	-	-	74.00	-21.00	236	378	V
		* 2.4835	31.93	RMS	32.90	-25.00	0.00	39.83	54.00	-14.17	-	-	236	378	V
		2.519	32.97	RMS	32.90	-24.90	0.00	40.97	54.00	-13.03	-	-	236	378	V
		* 2.4835	43.81	Pk	32.90	-25.00	0.00	51.71	-	-	74.00	-22.29	174	164	H
		2.545	45.03	Pk	32.90	-25.00	0.00	52.93	-	-	74.00	-21.07	174	164	H
		* 2.4835	32.29	RMS	32.90	-25.00	0.00	40.19	54.00	-13.81	-	-	174	164	H
		* 2.4838	33.67	RMS	32.90	-25.00	0.00	41.57	54.00	-12.43	-	-	174	164	H
2467	MIMO	* 2.4835	42.42	Pk	32.90	-25.00	0.00	50.32	-	-	74.00	-23.68	211	378	V
		2.534	44.82	Pk	32.90	-24.90	0.00	52.82	-	-	74.00	-21.18	211	378	V
		* 2.4835	31.87	RMS	32.90	-25.00	0.00	39.77	54.00	-14.23	-	-	211	378	V
		* 2.48441	33.06	RMS	32.90	-25.00	0.00	40.96	54.00	-13.04	-	-	211	378	V
		* 2.4835	41.87	Pk	32.90	-25.00	0.00	49.77	-	-	74.00	-24.23	172	161	H
		* 2.48354	47.86	Pk	32.90	-25.00	0.00	55.76	-	-	74.00	-18.24	172	161	H
		* 2.4835	31.33	RMS	32.90	-25.00	0.00	39.23	54.00	-14.77	-	-	172	161	H
		* 2.48501	33.22	RMS	32.90	-25.00	0.00	41.12	54.00	-12.88	-	-	172	161	H
		* 2.4835	46.85	Pk	32.90	-25.00	0.00	54.75	-	-	74.00	-19.25	204	380	V
		* 2.48351	47.05	Pk	32.90	-25.00	0.00	54.95	-	-	74.00	-19.05	204	380	V
2472	MIMO	* 2.4835	31.31	RMS	32.90	-25.00	0.00	39.21	54.00	-14.79	-	-	204	380	V
		* 2.48545	32.99	RMS	32.90	-25.00	0.00	40.89	54.00	-13.11	-	-	204	380	V

Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 1 CHANNEL) CH 1 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	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
* 4.8239	50.01	PK2	34.1	-31.3	0	52.81	-	-	74	-21.19	150	105	H
* 4.82396	47.43	MAV1	34.1	-31.3	0	50.23	54	-3.77	-	-	150	105	H
* 4.824	48.64	PK2	34.1	-31.3	0	51.44	-	-	74	-22.56	193	100	V
* 4.82398	45.24	MAV1	34.1	-31.3	0	48.04	54	-5.96	-	-	193	100	V
7.24187	37.64	PK2	35.8	-27.6	0	45.84	-	-	74	-28.16	360	100	H
7.24369	37.78	PK2	35.8	-27.7	0	45.88	-	-	74	-28.12	360	100	V
9.65079	33.89	PK2	37.2	-23.1	0	47.99	-	-	74	-26.01	360	100	H
9.65148	33.94	PK2	37.2	-23.2	0	47.94	-	-	74	-26.06	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 4.8239	50.01	PK2	34.10	-31.30	0.00	52.81	-	-	74.00	-21.19	150	105	H
		* 4.82396	47.43	MAv1	34.10	-31.30	0.00	50.23	54.00	-3.77	-	-	150	105	H
		* 4.824	48.64	PK2	34.10	-31.30	0.00	51.44	-	-	74.00	-22.56	193	100	V
		* 4.82398	45.24	MAv1	34.10	-31.30	0.00	48.04	54.00	-5.96	-	-	193	100	V
		7.242	37.64	PK2	35.80	-27.60	0.00	45.84	-	-	74.00	-28.16	360	100	H
		7.244	37.78	PK2	35.80	-27.70	0.00	45.88	-	-	74.00	-28.12	360	100	V
		9.651	33.89	PK2	37.20	-23.10	0.00	47.99	-	-	74.00	-26.01	360	100	H
		9.651	33.94	PK2	37.20	-23.20	0.00	47.94	-	-	74.00	-26.06	360	100	V
2437	MIMO	* 4.87394	49.89	PK2	34.10	-31.30	0.00	52.69	-	-	74.00	-21.31	148	108	H
		* 4.874	44.20	MAv1	34.10	-31.30	0.00	47.00	54.00	-7.00	-	-	148	108	H
		* 4.8739	46.11	PK2	34.10	-31.30	0.00	48.91	-	-	74.00	-25.09	182	101	V
		* 4.874	41.26	MAv1	34.10	-31.30	0.00	44.06	54.00	-9.94	-	-	182	101	V
		* 7.31008	37.85	PK2	35.80	-27.40	0.00	46.25	-	-	74.00	-27.75	360	100	H
		* 7.31198	38.18	PK2	35.80	-27.40	0.00	46.58	-	-	74.00	-27.42	360	100	V
		9.738	34.02	PK2	37.40	-23.60	0.00	47.82	-	-	74.00	-26.18	360	100	H
		9.734	34.46	PK2	37.40	-23.60	0.00	48.26	-	-	74.00	-25.74	360	100	V
2462	MIMO	* 4.92393	47.00	PK2	34.10	-31.40	0.00	49.70	-	-	74.00	-24.30	149	106	H
		* 4.92396	43.50	MAv1	34.10	-31.40	0.00	46.20	54.00	-7.80	-	-	149	107	H
		* 4.92407	45.59	PK2	34.10	-31.50	0.00	48.19	-	-	74.00	-25.81	194	100	V
		* 4.924	40.58	MAv1	34.10	-31.40	0.00	43.28	54.00	-10.72	-	-	194	100	V
		* 7.38698	37.34	PK2	35.80	-27.00	0.00	46.14	-	-	74.00	-27.86	0	100	H
		* 7.38378	37.54	PK2	35.80	-27.00	0.00	46.34	-	-	74.00	-27.66	0	100	V
		9.865	34.12	PK2	37.60	-22.70	0.00	49.02	-	-	74.00	-24.98	0	100	H
		9.873	34.52	PK2	37.60	-22.50	0.00	49.62	-	-	74.00	-24.38	0	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

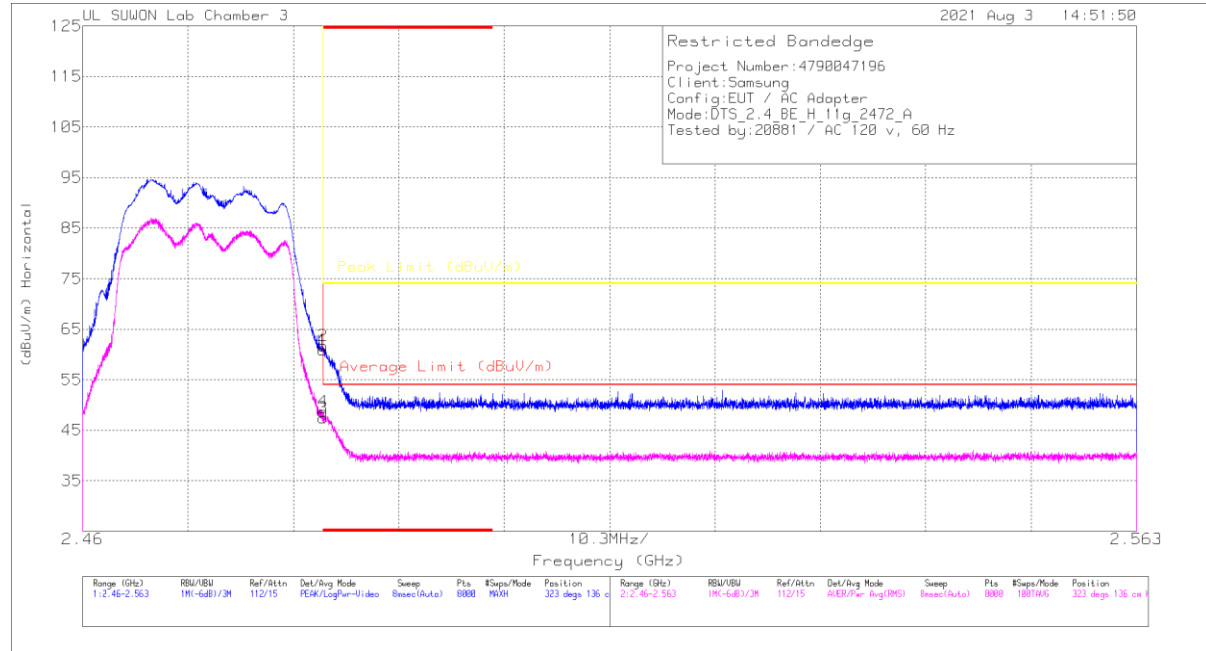
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (WORST CASE: 13 CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[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	* 2.4835	52.96	Pk	32.9	-25	0	60.86	-	-	74	-13.14	323	136	H
2	* 2.48351	53.78	Pk	32.9	-25	0	61.68	-	-	74	-12.32	323	136	H
3	* 2.4835	39.51	RMS	32.9	-25	0	47.41	54	-6.59	-	-	323	136	H
4	* 2.48351	40.79	RMS	32.9	-25	0	48.69	54	-5.31	-	-	323	136	H

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

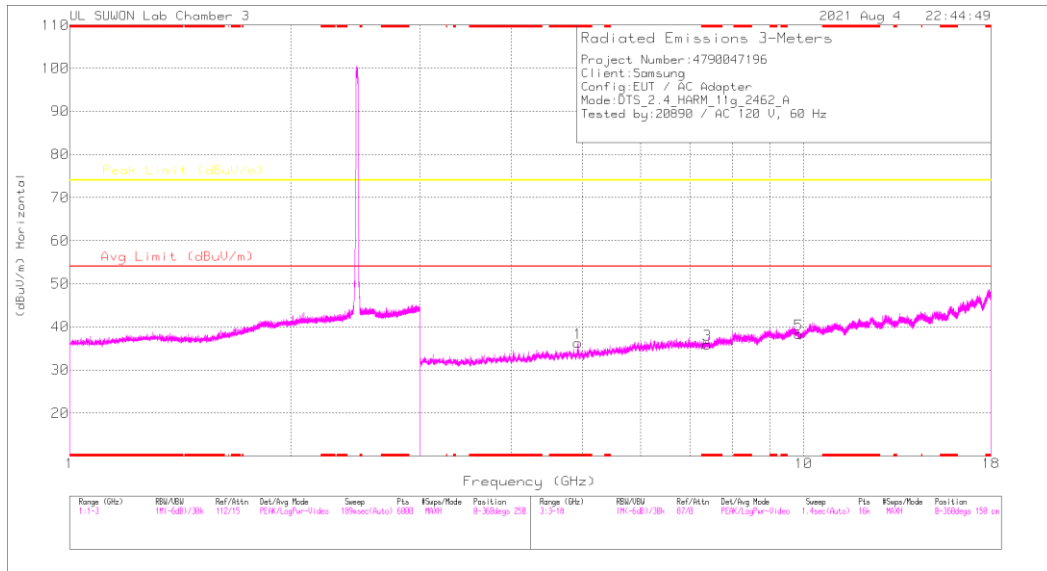
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	48.77	Pk	32.80	-25.20	0.00	56.37	-	-	74.00	-17.63	343	119	H
		2.38958	48.96	Pk	32.80	-25.10	0.00	56.66	-	-	74.00	-17.34	343	119	H
		* 2.39	36.80	RMS	32.80	-25.20	0.00	44.40	54.00	-9.60	-	-	343	119	H
		* 2.38998	37.39	RMS	32.80	-25.20	0.00	44.99	54.00	-9.01	-	-	343	119	H
		* 2.39	46.85	Pk	32.80	-25.20	0.00	54.45	-	-	74.00	-19.55	232	363	V
		* 2.38983	46.98	Pk	32.80	-25.20	0.00	54.58	-	-	74.00	-19.42	232	363	V
		* 2.39	34.35	RMS	32.80	-25.20	0.00	41.95	54.00	-12.05	-	-	232	363	V
		* 2.38996	35.12	RMS	32.80	-25.20	0.00	42.72	54.00	-11.28	-	-	232	363	V
2462	MIMO	* 2.4835	46.48	Pk	32.90	-25.00	0.00	54.38	-	-	74.00	-19.62	184	385	H
		* 2.48355	48.28	Pk	32.90	-25.00	0.00	56.18	-	-	74.00	-17.82	184	385	H
		* 2.4835	34.36	RMS	32.90	-25.00	0.00	42.26	54.00	-11.74	-	-	184	385	H
		* 2.48363	35.60	RMS	32.90	-25.00	0.00	43.50	54.00	-10.50	-	-	184	385	H
		* 2.4835	43.94	Pk	32.90	-25.00	0.00	51.84	-	-	74.00	-22.16	232	387	V
		* 2.48358	44.97	Pk	32.90	-25.00	0.00	52.87	-	-	74.00	-21.13	232	387	V
		* 2.4835	32.77	RMS	32.90	-25.00	0.00	40.67	54.00	-13.33	-	-	232	387	V
		* 2.48351	33.98	RMS	32.90	-25.00	0.00	41.88	54.00	-12.12	-	-	232	387	V
2467	MIMO	* 2.4835	42.10	Pk	32.90	-25.00	0.00	50.00	-	-	74.00	-24.00	323	136	H
		* 2.48389	44.36	Pk	32.90	-25.00	0.00	52.26	-	-	74.00	-21.74	323	136	H
		* 2.4835	32.37	RMS	32.90	-25.00	0.00	40.27	54.00	-13.73	-	-	323	136	H
		* 2.49308	33.06	RMS	32.90	-24.90	0.00	41.06	54.00	-12.94	-	-	323	136	H
		* 2.4835	41.39	Pk	32.90	-25.00	0.00	49.29	-	-	74.00	-24.71	221	388	V
		* 2.49787	45.29	Pk	32.90	-25.00	0.00	53.19	-	-	74.00	-20.81	221	388	V
		* 2.4835	31.21	RMS	32.90	-25.00	0.00	39.11	54.00	-14.89	-	-	221	388	V
		2.542	32.98	RMS	32.90	-24.90	0.00	40.98	54.00	-13.02	-	-	221	388	V
2472	MIMO	* 2.4835	52.96	Pk	32.90	-25.00	0.00	60.86	-	-	74.00	-13.14	323	136	H
		* 2.48351	53.78	Pk	32.90	-25.00	0.00	61.68	-	-	74.00	-12.32	323	136	H
		* 2.4835	39.51	RMS	32.90	-25.00	0.00	47.41	54.00	-6.59	-	-	323	136	H
		* 2.48351	40.79	RMS	32.90	-25.00	0.00	48.69	54.00	-5.31	-	-	323	136	H
		* 2.4835	49.41	Pk	32.90	-25.00	0.00	57.31	-	-	74.00	-16.69	219	379	V
		* 2.48355	49.85	Pk	32.90	-25.00	0.00	57.75	-	-	74.00	-16.25	219	379	V
		* 2.4835	36.66	RMS	32.90	-25.00	0.00	44.56	54.00	-9.44	-	-	219	379	V
		* 2.48366	36.80	RMS	32.90	-25.00	0.00	44.70	54.00	-9.30	-	-	219	379	V

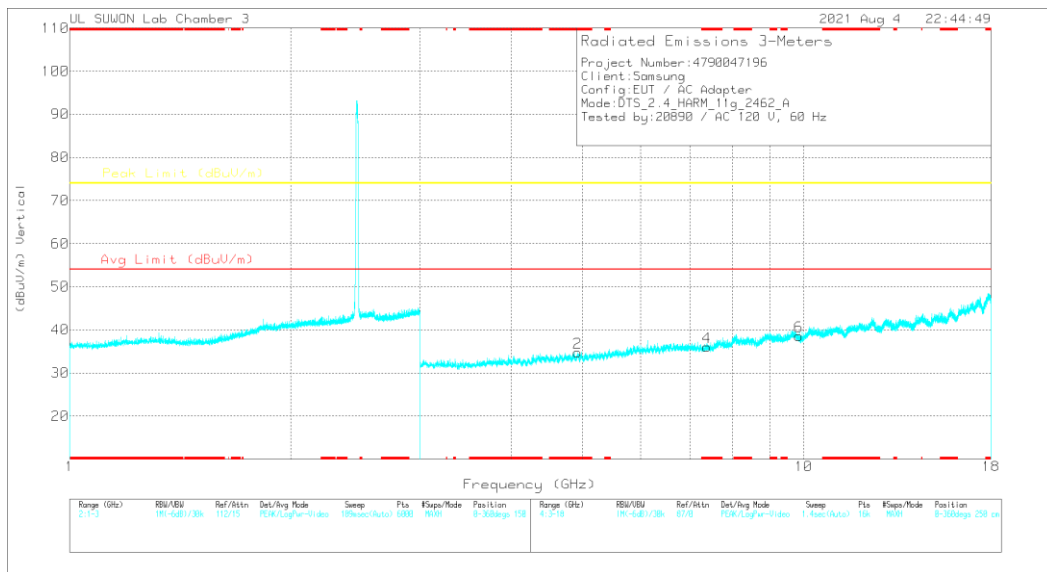
Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 11 CHANNEL) CH 11 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	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
* 4.92579	42.98	PK2	34.7	-30.9	0	46.78	-	-	74	-27.22	150	106	H
* 4.92996	31.25	MAV1	34.7	-30.9	0	35.05	54	-18.95	-	-	150	106	H
* 4.92431	41.26	PK2	34.7	-30.9	0	45.06	-	-	74	-28.94	253	100	V
* 4.92561	30.33	MAV1	34.7	-30.9	0	34.13	54	-19.87	-	-	253	100	V
* 7.38879	32.26	PK2	36	-24.5	0	43.76	-	-	74	-30.24	360	100	H
* 7.38786	32.94	PK2	36	-24.4	0	44.54	-	-	74	-29.46	360	100	V
9.85086	29.81	PK2	37.7	-21.3	0	46.21	-	-	74	-27.79	360	100	H
9.85197	30.08	PK2	37.7	-21.4	0	46.38	-	-	74	-27.62	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 4.82463	36.69	PK2	34.60	-30.30	0.00	40.99	-	-	74.00	-33.01	360	100	H
		* 4.82312	37.66	PK2	34.60	-30.30	0.00	41.96	-	-	74.00	-32.04	360	100	V
		7.239	32.97	PK2	36.00	-25.60	0.00	43.37	-	-	74.00	-30.63	360	100	H
		7.237	33.02	PK2	36.00	-25.60	0.00	43.42	-	-	74.00	-30.58	360	100	V
		9.647	30.80	PK2	37.40	-21.40	0.00	46.80	-	-	74.00	-27.20	360	100	H
		9.645	30.81	PK2	37.40	-21.40	0.00	46.81	-	-	74.00	-27.19	360	100	V
2437	MIMO	* 4.87408	37.46	PK2	34.60	-30.80	0.00	41.26	-	-	74.00	-32.74	360	100	H
		* 4.87492	39.20	PK2	34.60	-30.80	0.00	43.00	-	-	74.00	-31.00	360	100	V
		* 7.31023	33.28	PK2	36.00	-25.20	0.00	44.08	-	-	74.00	-29.92	360	100	H
		* 7.31028	32.29	PK2	36.00	-25.20	0.00	43.09	-	-	74.00	-30.91	360	100	V
		9.751	30.46	PK2	37.50	-21.20	0.00	46.76	-	-	74.00	-27.24	360	100	H
		9.753	30.30	PK2	37.50	-21.10	0.00	46.70	-	-	74.00	-27.30	360	100	V
2462	MIMO	* 4.92579	42.98	PK2	34.70	-30.90	0.00	46.78	-	-	74.00	-27.22	150	106	H
		* 4.92996	31.25	MAV1	34.70	-30.90	0.00	35.05	54.00	-18.95	-	-	150	106	H
		* 4.92431	41.26	PK2	34.70	-30.90	0.00	45.06	-	-	74.00	-28.94	253	100	V
		* 4.92561	30.33	MAV1	34.70	-30.90	0.00	34.13	54.00	-19.87	-	-	253	100	V
		* 7.38879	32.26	PK2	36.00	-24.50	0.00	43.76	-	-	74.00	-30.24	360	100	H
		* 7.38786	32.94	PK2	36.00	-24.40	0.00	44.54	-	-	74.00	-29.46	360	100	V
		9.851	29.81	PK2	37.70	-21.30	0.00	46.21	-	-	74.00	-27.79	360	100	H
		9.852	30.08	PK2	37.70	-21.40	0.00	46.38	-	-	74.00	-27.62	360	100	V

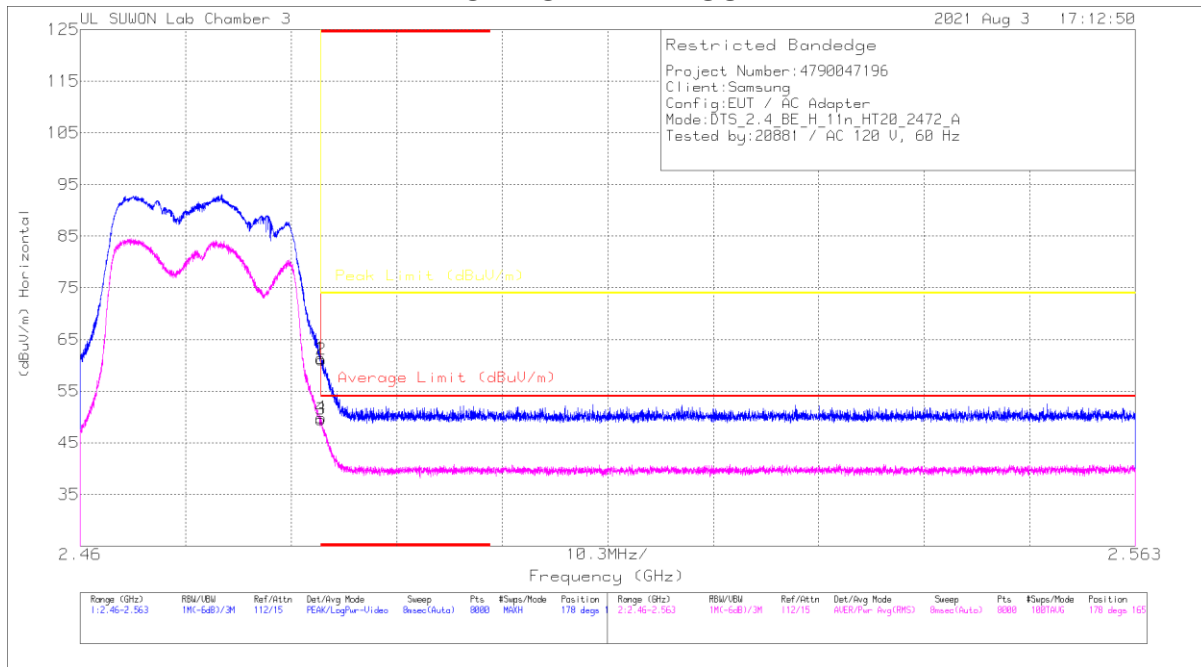
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (WORST CASE: 13 CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[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	* 2.4835	53.45	PK	32.9	-25	0	61.35	-	-	74	-12.65	178	165	H
2	* 2.48355	53.2	PK	32.9	-25	0	61.1	-	-	74	-12.9	178	165	H
3	* 2.4835	41.63	RMS	32.9	-25	0	49.53	54	-4.47	-	-	178	165	H
4	* 2.48351	41.94	RMS	32.9	-25	0	49.84	54	-4.16	-	-	178	165	H

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

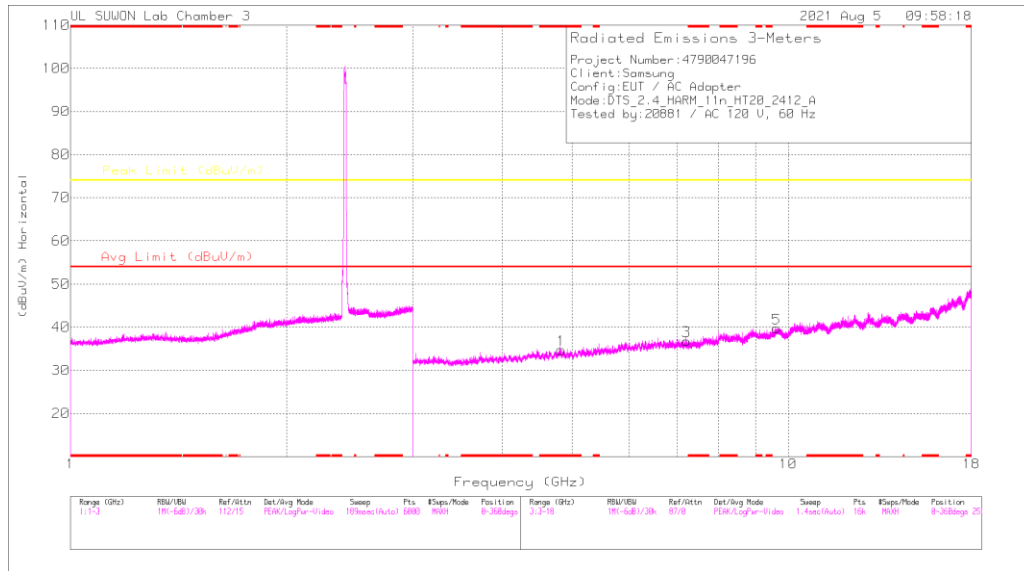
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	46.28	Pk	32.80	-25.20	0.00	53.88	-	-	74.00	-20.12	16	191	H
		2.38983	48.00	Pk	32.80	-25.20	0.00	55.60	-	-	74.00	-18.40	16	191	H
		* 2.39	35.51	RMS	32.80	-25.20	0.00	43.11	54.00	-10.89	-	-	16	191	H
		* 2.38944	36.31	RMS	32.80	-25.10	0.00	44.01	54.00	-9.99	-	-	16	191	H
		* 2.39	46.21	Pk	32.80	-25.20	0.00	53.81	-	-	74.00	-20.19	230	363	V
		* 2.38931	46.24	Pk	32.80	-25.10	0.00	53.94	-	-	74.00	-20.06	230	363	V
		* 2.39	34.46	RMS	32.80	-25.20	0.00	42.06	54.00	-11.94	-	-	230	363	V
		* 2.38981	35.23	RMS	32.80	-25.20	0.00	42.83	54.00	-11.17	-	-	230	363	V
2462	MIMO	* 2.4835	47.54	Pk	32.90	-25.00	0.00	55.44	-	-	74.00	-18.56	321	137	H
		* 2.48456	49.54	Pk	32.90	-25.00	0.00	57.44	-	-	74.00	-16.56	321	137	H
		* 2.4835	37.86	RMS	32.90	-25.00	0.00	45.76	54.00	-8.24	-	-	321	137	H
		* 2.48395	37.94	RMS	32.90	-25.00	0.00	45.84	54.00	-8.16	-	-	321	137	H
		* 2.4835	43.99	Pk	32.90	-25.00	0.00	51.89	-	-	74.00	-22.11	227	388	V
		* 2.48375	45.29	Pk	32.90	-25.00	0.00	53.19	-	-	74.00	-20.81	227	388	V
		* 2.4835	33.61	RMS	32.90	-25.00	0.00	41.51	54.00	-12.49	-	-	227	388	V
		* 2.48377	33.92	RMS	32.90	-25.00	0.00	41.82	54.00	-12.18	-	-	227	388	V
2467	MIMO	* 2.4835	41.60	Pk	32.90	-25.00	0.00	49.50	-	-	74.00	-24.50	321	146	H
		2.541	44.63	Pk	32.90	-25.00	0.00	52.53	-	-	74.00	-21.47	321	146	H
		* 2.4835	31.66	RMS	32.90	-25.00	0.00	39.56	54.00	-14.44	-	-	321	146	H
		2.518	33.21	RMS	32.90	-25.00	0.00	41.11	54.00	-12.89	-	-	321	146	H
		* 2.4835	42.23	Pk	32.90	-25.00	0.00	50.13	-	-	74.00	-23.87	228	335	V
		2.552	44.85	Pk	32.90	-24.90	0.00	52.85	-	-	74.00	-21.15	228	335	V
		* 2.4835	31.60	RMS	32.90	-25.00	0.00	39.50	54.00	-14.50	-	-	228	335	V
		2.552	33.08	RMS	32.90	-24.90	0.00	41.08	54.00	-12.92	-	-	228	335	V
2472	MIMO	* 2.4835	53.45	Pk	32.90	-25.00	0.00	61.35	-	-	74.00	-12.65	178	165	H
		* 2.48355	53.20	Pk	32.90	-25.00	0.00	61.10	-	-	74.00	-12.90	178	165	H
		* 2.4835	41.63	RMS	32.90	-25.00	0.00	49.53	54.00	-4.47	-	-	178	165	H
		* 2.48351	41.94	RMS	32.90	-25.00	0.00	49.84	54.00	-4.16	-	-	178	165	H
		* 2.4835	49.49	Pk	32.90	-25.00	0.00	57.39	-	-	74.00	-16.61	227	336	V
		* 2.48362	50.55	Pk	32.90	-25.00	0.00	58.45	-	-	74.00	-15.55	227	336	V
		* 2.4835	38.06	RMS	32.90	-25.00	0.00	45.96	54.00	-8.04	-	-	227	336	V
		* 2.48353	38.09	RMS	32.90	-25.00	0.00	45.99	54.00	-8.01	-	-	227	336	V

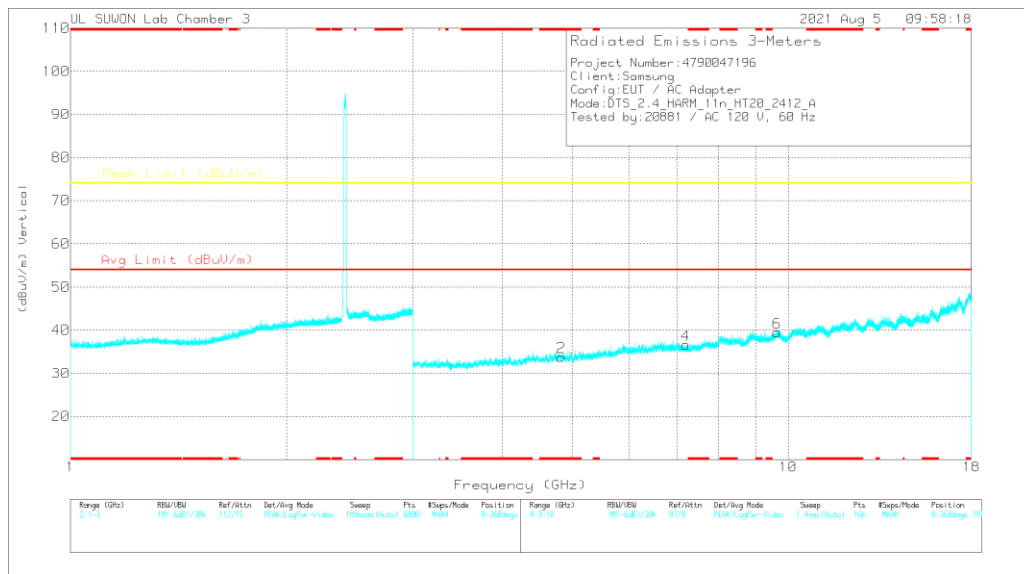
Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 1 CHANNEL) CH 1 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	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
* 4.82544	39.47	PK2	34.6	-30.3	0	43.77	-	-	74	-30.23	0	100	H
* 4.82442	39.42	PK2	34.6	-30.3	0	43.72	-	-	74	-30.28	0	100	V
7.21251	35.72	PK2	36.1	-25.6	0	46.22	-	-	74	-27.78	0	100	H
7.2006	35.02	PK2	36.1	-25.5	0	45.62	-	-	74	-28.38	0	100	V
9.63646	33.33	PK2	37.4	-21.5	0	49.23	-	-	74	-24.77	0	100	H
9.64874	32.62	PK2	37.4	-21.4	0	48.62	-	-	74	-25.38	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 4.82544	39.47	PK2	34.60	-30.30	0.00	43.77	-	-	74.00	-30.23	0	100	H
		* 4.82442	39.42	PK2	34.60	-30.30	0.00	43.72	-	-	74.00	-30.28	0	100	V
		7.213	35.72	PK2	36.10	-25.60	0.00	46.22	-	-	74.00	-27.78	0	100	H
		7.201	35.02	PK2	36.10	-25.50	0.00	45.62	-	-	74.00	-28.38	0	100	V
		9.636	33.33	PK2	37.40	-21.50	0.00	49.23	-	-	74.00	-24.77	0	100	H
		9.649	32.62	PK2	37.40	-21.40	0.00	48.62	-	-	74.00	-25.38	0	100	V
2437	MIMO	* 4.87502	37.75	PK2	34.70	-30.80	0.00	41.65	-	-	74.00	-32.35	360	100	H
		* 4.87539	39.51	PK2	34.70	-30.80	0.00	43.41	-	-	74.00	-30.59	360	100	V
		* 7.30982	32.67	PK2	36.00	-25.20	0.00	43.47	-	-	74.00	-30.53	360	100	H
		* 7.30754	32.52	PK2	36.00	-25.20	0.00	43.32	-	-	74.00	-30.68	360	100	V
		9.748	31.12	PK2	37.50	-21.10	0.00	47.52	-	-	74.00	-26.48	360	100	H
		9.749	30.84	PK2	37.50	-21.10	0.00	47.24	-	-	74.00	-26.76	360	100	V
2462	MIMO	* 4.92101	38.44	PK2	34.70	-30.90	0.00	42.24	-	-	74.00	-31.76	360	100	H
		* 4.92044	39.42	PK2	34.70	-31.00	0.00	43.12	-	-	74.00	-30.88	360	100	V
		* 7.38665	32.57	PK2	36.00	-24.40	0.00	44.17	-	-	74.00	-29.83	360	100	H
		* 7.38854	32.13	PK2	36.00	-24.50	0.00	43.63	-	-	74.00	-30.37	360	100	V
		9.847	29.05	PK2	37.70	-21.40	0.00	45.35	-	-	74.00	-28.65	360	100	H
		9.845	30.38	PK2	37.70	-21.40	0.00	46.68	-	-	74.00	-27.32	360	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

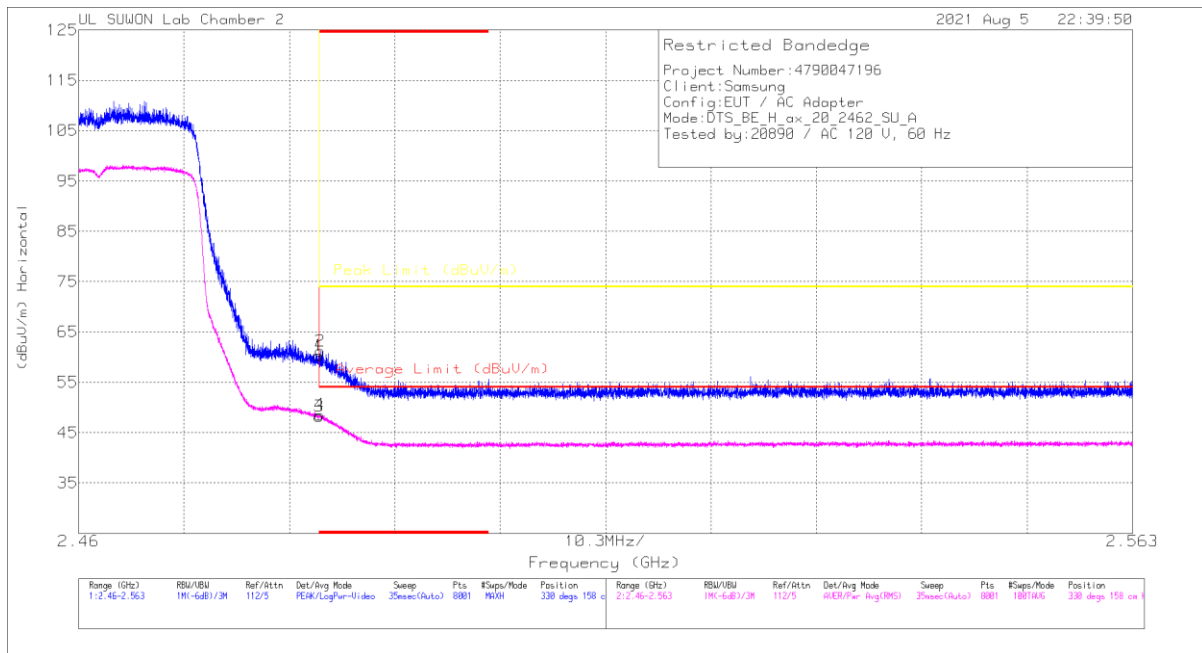
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.1.4. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (11 CHANNEL, SU MODE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[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	* 2.48351	48.57	Pk	32	-20.2	0	60.37	-	-	74	-13.63	330	158	H
2	* 2.4836	49.39	Pk	32	-20.2	0	61.19	-	-	74	-12.81	330	158	H
3	* 2.48351	36.47	RMS	32	-20.2	0	48.27	54	-5.73	-	-	330	158	H
4	* 2.48355	36.77	RMS	32	-20.2	0	48.57	54	-5.43	-	-	330	158	H

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

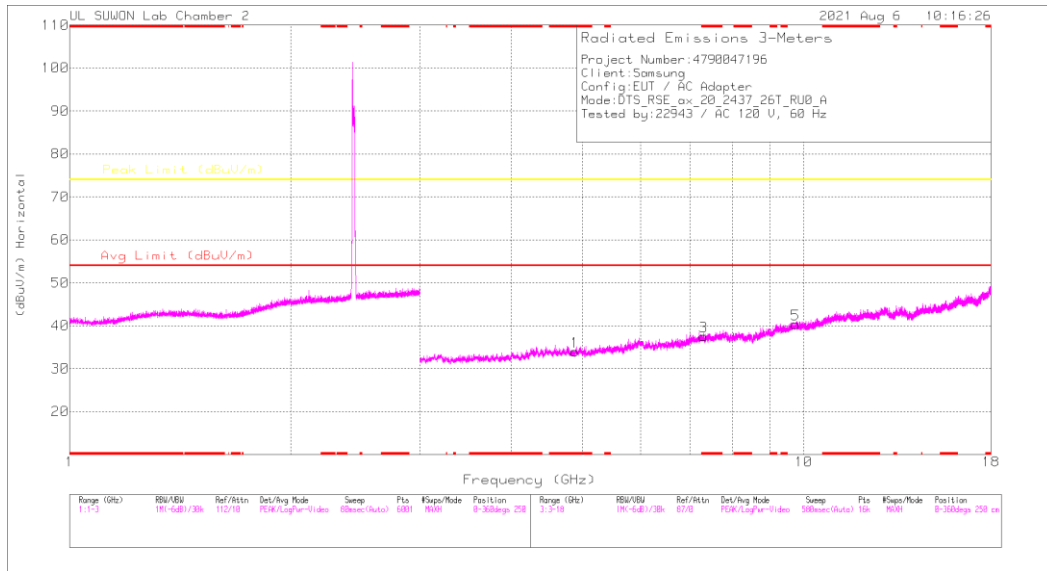
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412 SU mode	MIMO	* 2.39	43.08	Pk	31.90	-20.30	0.00	54.68	-	-	74.00	-19.32	335	137	H
		2.38964	45.07	Pk	31.90	-20.30	0.00	56.67	-	-	74.00	-17.33	335	137	H
		* 2.39	33.31	RMS	31.90	-20.30	0.00	44.91	54.00	-9.09	-	-	335	137	H
		* 2.38992	33.42	RMS	31.90	-20.30	0.00	45.02	54.00	-8.98	-	-	335	137	H
		* 2.39	41.91	Pk	31.90	-20.30	0.00	53.51	-	-	74.00	-20.49	209	366	V
		* 2.38989	44.03	Pk	31.90	-20.30	0.00	55.63	-	-	74.00	-18.37	209	366	V
		* 2.39	31.84	RMS	31.90	-20.30	0.00	43.44	54.00	-10.56	-	-	209	366	V
		* 2.38994	32.03	RMS	31.90	-20.30	0.00	43.63	54.00	-10.37	-	-	209	366	V
2462 SU mode	MIMO	* 2.48351	48.57	Pk	32.00	-20.20	0.00	60.37	-	-	74.00	-13.63	330	158	H
		* 2.4836	49.39	Pk	32.00	-20.20	0.00	61.19	-	-	74.00	-12.81	330	158	H
		* 2.48351	36.47	RMS	32.00	-20.20	0.00	48.27	54.00	-5.73	-	-	330	158	H
		* 2.48355	36.77	RMS	32.00	-20.20	0.00	48.57	54.00	-5.43	-	-	330	158	H
		* 2.48351	45.70	Pk	32.00	-20.20	0.00	57.50	-	-	74.00	-16.50	208	338	V
		* 2.511	44.60	Pk	32.10	-20.30	0.00	56.40	-	-	74.00	-17.60	208	338	V
		* 2.48351	33.03	RMS	32.00	-20.20	0.00	44.83	54.00	-9.17	-	-	208	338	V
		* 2.4837	33.38	RMS	32.00	-20.20	0.00	45.18	54.00	-8.82	-	-	208	338	V
2467 SU mode	MIMO	* 2.48351	41.69	Pk	32.00	-20.20	0.00	53.49	-	-	74.00	-20.51	333	155	H
		2.533	44.66	Pk	32.10	-20.00	0.00	56.76	-	-	74.00	-17.24	333	155	H
		* 2.48351	31.22	RMS	32.00	-20.20	0.00	43.02	54.00	-10.98	-	-	333	155	H
		2.538	31.53	RMS	32.10	-20.10	0.00	43.53	54.00	-10.47	-	-	333	155	H
		* 2.48351	41.18	Pk	32.00	-20.20	0.00	52.98	-	-	74.00	-21.02	221	381	V
		2.562	44.08	Pk	32.20	-20.10	0.00	56.18	-	-	74.00	-17.82	221	381	V
		* 2.48351	30.62	RMS	32.00	-20.20	0.00	42.42	54.00	-11.58	-	-	221	381	V
		2.533	31.40	RMS	32.10	-20.00	0.00	43.50	54.00	-10.50	-	-	221	381	V
2472 SU mode	MIMO	* 2.48351	49.40	Pk	32.00	-20.20	0.00	61.20	-	-	74.00	-12.80	323	154	H
		* 2.48363	51.21	Pk	32.00	-20.20	0.00	63.01	-	-	74.00	-10.99	323	154	H
		* 2.48351	36.45	RMS	32.00	-20.20	0.00	48.25	54.00	-5.75	-	-	323	154	H
		* 2.48355	36.35	RMS	32.00	-20.20	0.00	48.15	54.00	-5.85	-	-	323	154	H
		* 2.48351	45.05	Pk	32.00	-20.20	0.00	56.85	-	-	74.00	-17.15	222	374	V
		* 2.4836	46.85	Pk	32.00	-20.20	0.00	58.65	-	-	74.00	-15.35	222	374	V
		* 2.48351	34.21	RMS	32.00	-20.20	0.00	46.01	54.00	-7.99	-	-	222	374	V
		* 2.48357	34.53	RMS	32.00	-20.20	0.00	46.33	54.00	-7.67	-	-	222	374	V

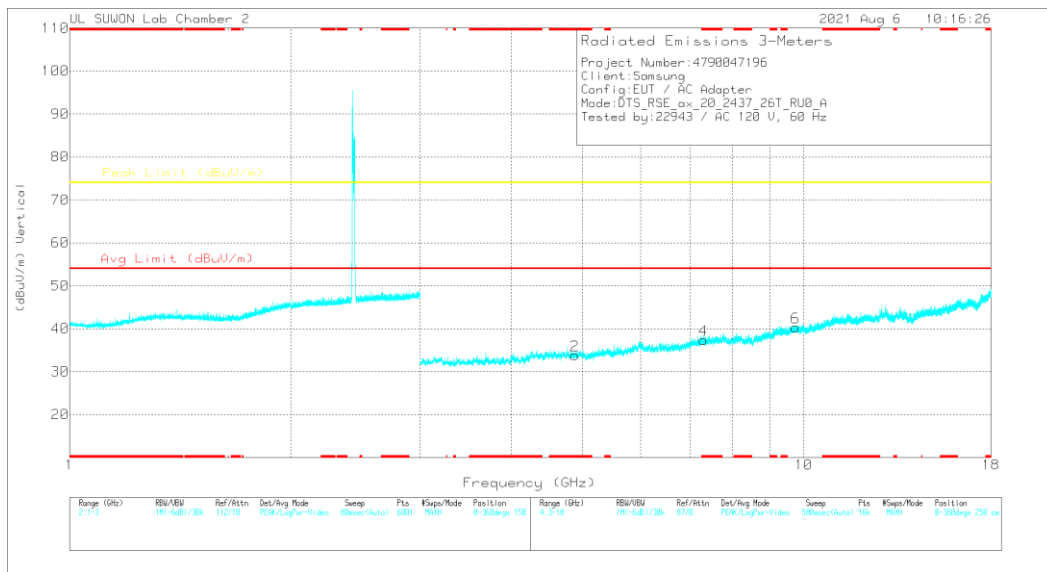
Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL, 0RU) CH 6 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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
* 4.87598	36.42	PK2	34.1	-27.6	0	42.92	-	-	74	-31.08	360	100	H
* 4.8705	37.07	PK2	34.1	-27.8	0	43.37	-	-	74	-30.63	360	100	V
* 7.31438	35.49	PK2	36.1	-24.6	0	46.99	-	-	74	-27.01	360	100	H
* 7.30623	35.09	PK2	36.2	-24.7	0	46.59	-	-	74	-27.41	360	100	V
9.74681	32.44	PK2	37.2	-20.5	0	49.14	-	-	74	-24.86	360	100	H
9.74336	32.94	PK2	37.2	-20.4	0	49.74	-	-	74	-24.26	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

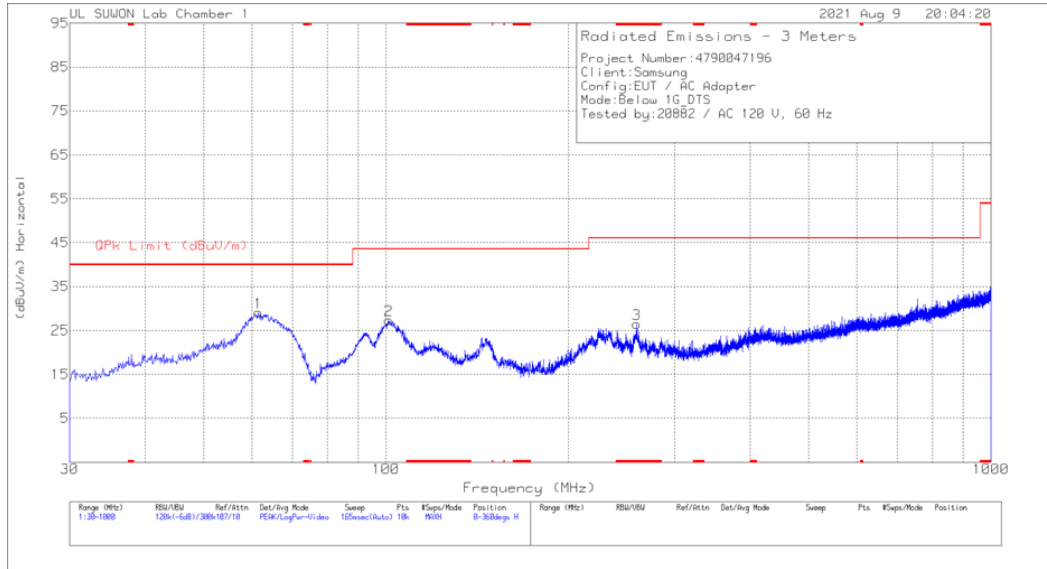
HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412 RU8	MIMO	* 4.82365	36.42	PK2	34.10	-27.90	0.00	42.62	-	-	74.00	-31.38	360	100	H
		* 4.8254	36.65	PK2	34.10	-27.80	0.00	42.95	-	-	74.00	-31.05	360	100	V
		7.238	35.61	PK2	36.20	-25.10	0.00	46.71	-	-	74.00	-27.29	360	100	H
		7.236	35.37	PK2	36.20	-25.10	0.00	46.47	-	-	74.00	-27.53	360	100	V
		9.649	32.77	PK2	37.00	-20.90	0.00	48.87	-	-	74.00	-25.13	360	100	H
		9.648	32.59	PK2	37.00	-20.90	0.00	48.69	-	-	74.00	-25.31	360	100	V
2437 RU0	MIMO	* 4.87598	36.42	PK2	34.10	-27.60	0.00	42.92	-	-	74.00	-31.08	360	100	H
		* 4.8705	37.07	PK2	34.10	-27.80	0.00	43.37	-	-	74.00	-30.63	360	100	V
		* 7.31438	35.49	PK2	36.10	-24.60	0.00	46.99	-	-	74.00	-27.01	360	100	H
		* 7.30623	35.09	PK2	36.20	-24.70	0.00	46.59	-	-	74.00	-27.41	360	100	V
		9.747	32.44	PK2	37.20	-20.50	0.00	49.14	-	-	74.00	-24.86	360	100	H
		9.743	32.94	PK2	37.20	-20.40	0.00	49.74	-	-	74.00	-24.26	360	100	V
2462 RU0	MIMO	* 4.92441	36.09	PK2	34.10	-26.80	0.00	43.39	-	-	74.00	-30.61	360	100	H
		* 4.92223	35.84	PK2	34.10	-27.00	0.00	42.94	-	-	74.00	-31.06	360	100	V
		* 7.38265	34.87	PK2	36.10	-24.00	0.00	46.97	-	-	74.00	-27.03	360	100	H
		* 7.38246	34.09	PK2	36.10	-24.00	0.00	46.19	-	-	74.00	-27.81	360	100	V
		9.843	32.63	PK2	37.30	-20.90	0.00	49.03	-	-	74.00	-24.97	360	100	H
		9.850	32.72	PK2	37.30	-20.90	0.00	49.12	-	-	74.00	-24.88	360	100	V

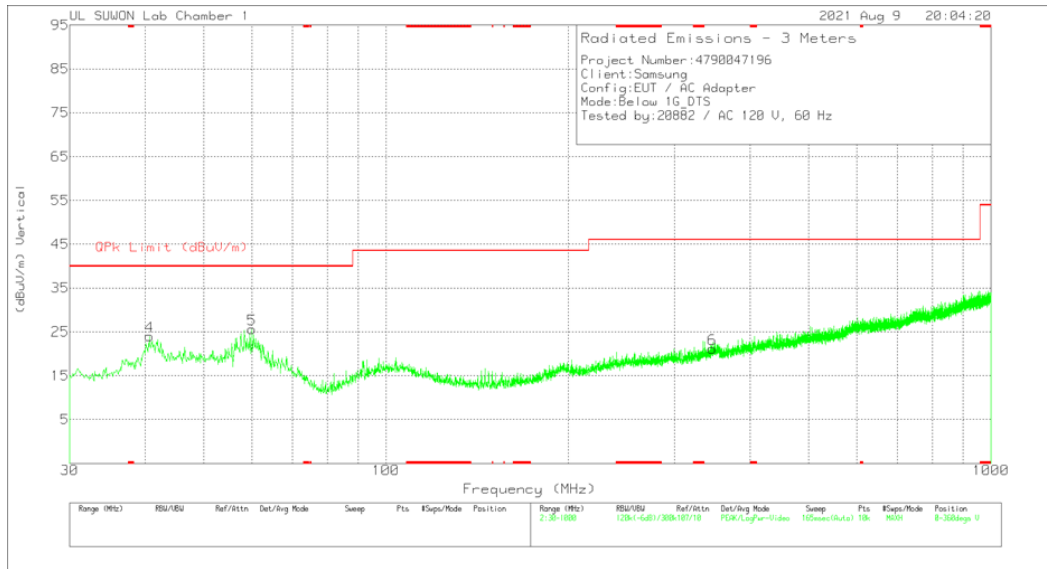
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.2. WORST CASE BELOW 1 GHZ



HORIZONTAL



VERTICAL

Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	61.525	41.55	Pk	18.2	-30.7	0	29.05	40	-10.95	0-360	300	H
2	101.101	39.86	Pk	17.7	-30.2	0	27.36	43.52	-16.16	0-360	300	H
3	* 259.89	36.86	Pk	18.5	-28.9	0	26.46	46.02	-19.56	0-360	100	H
4	40.67	36.23	Pk	18.8	-31	0	24.03	40	-15.97	0-360	100	V
5	60.07	37.69	Pk	18.6	-30.7	0	25.59	40	-14.41	0-360	100	V
6	346.22	28.64	Pk	20.8	-28.3	0	21.14	46.02	-24.88	0-360	400	V

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

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

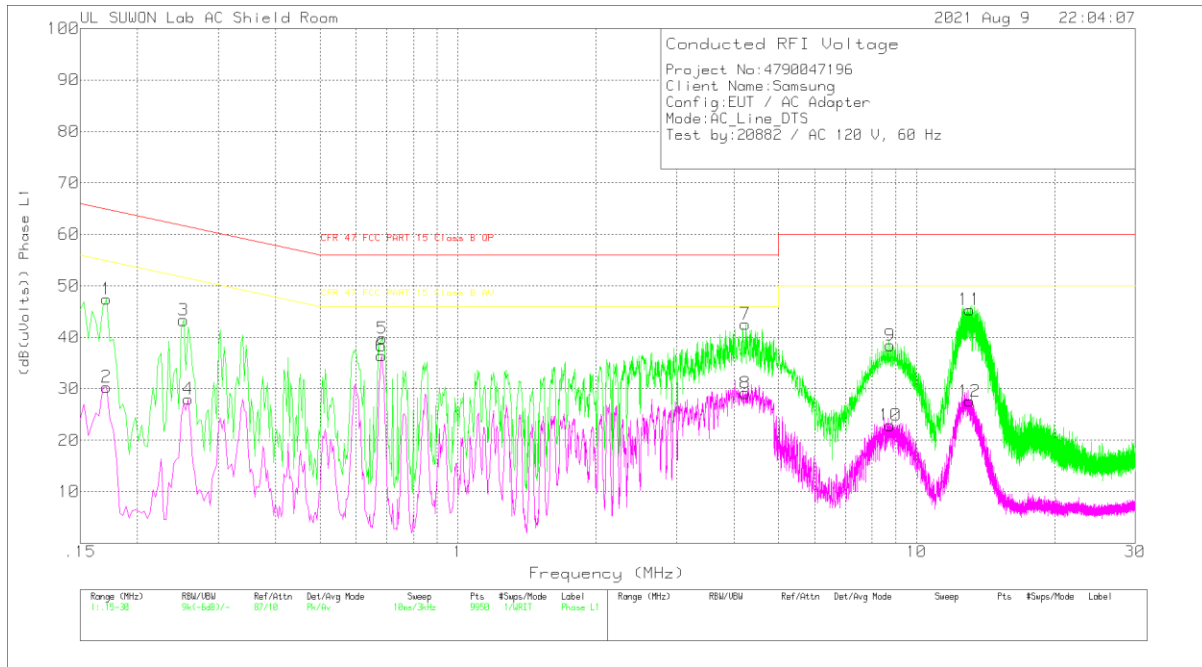
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line

LINE 1 RESULTS



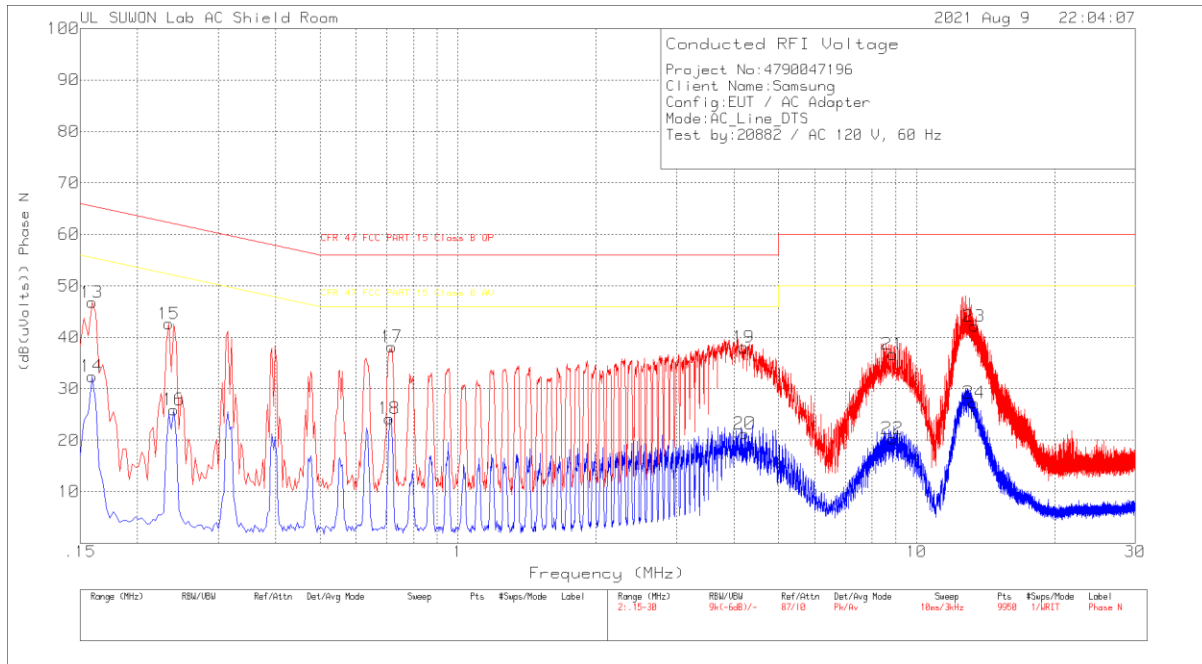
Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(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	37.22	Pk	10	.2	47.42	64.91	-17.49	-	-
2	.171	20.14	Av	10	.2	30.34	-	-	54.91	-24.57
3	.252	33.43	Pk	9.7	.2	43.33	61.69	-18.36	-	-
4	.258	18.1	Av	9.7	.2	28	-	-	51.5	-23.5
5	.684	29.73	Pk	9.9	.2	39.83	56	-16.17	-	-
6	.681	26.33	Av	9.9	.2	36.43	-	-	46	-9.57
7	4.233	32.47	Pk	9.8	.3	42.57	56	-13.43	-	-
8	4.233	19.05	Av	9.8	.3	29.15	-	-	46	-16.85
9	8.766	28.14	Pk	9.9	.4	38.44	60	-21.56	-	-
10	8.766	12.61	Av	9.9	.4	22.91	-	-	50	-27.09
11	13.062	34.97	Pk	10	.4	45.37	60	-14.63	-	-
12	13.062	17.19	Av	10	.4	27.59	-	-	50	-22.41

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(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	.159	36.8	Pk	9.9	.1	46.8	65.52	-18.72	-	-
14	.159	22.42	Av	9.9	.1	32.42	-	-	55.52	-23.1
15	.234	32.72	Pk	9.7	.2	42.62	62.31	-19.69	-	-
16	.24	16.03	Av	9.7	.2	25.93	-	-	52.1	-26.17
17	.717	28.03	Pk	9.9	.2	38.13	56	-17.87	-	-
18	.708	14.1	Av	9.9	.2	24.2	-	-	46	-21.8
19	4.197	27.97	Pk	9.8	.3	38.07	56	-17.93	-	-
20	4.215	11.17	Av	9.8	.3	21.27	-	-	46	-24.73
21	8.862	26.44	Pk	9.9	.4	36.74	60	-23.26	-	-
22	8.862	10.01	Av	9.9	.4	20.31	-	-	50	-29.69
23	13.371	31.65	Pk	10.1	.4	42.15	60	-17.85	-	-
24	13.353	16.77	Av	10.1	.4	27.27	-	-	50	-22.73

Pk - Peak detector
 Av - Average detection

END OF TEST REPORT