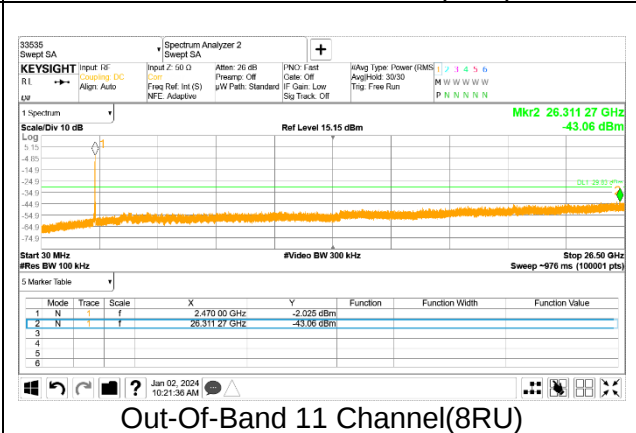
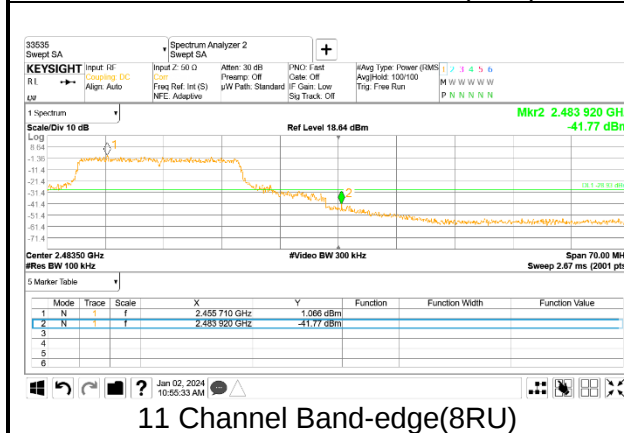
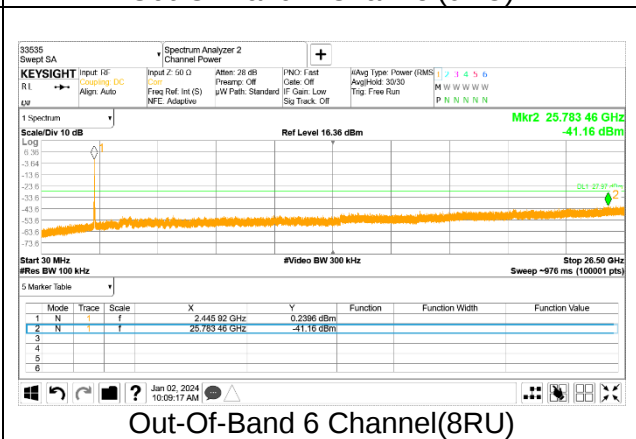
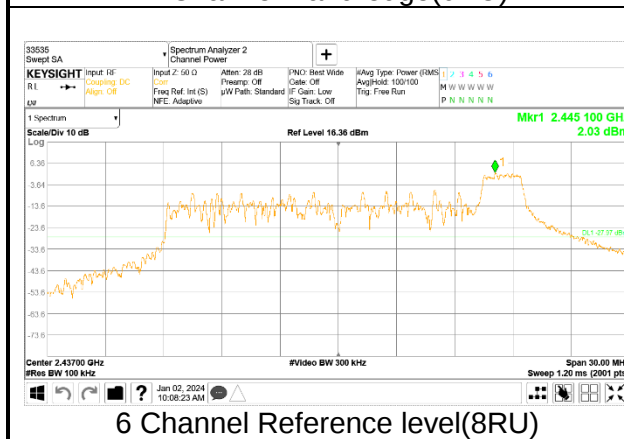
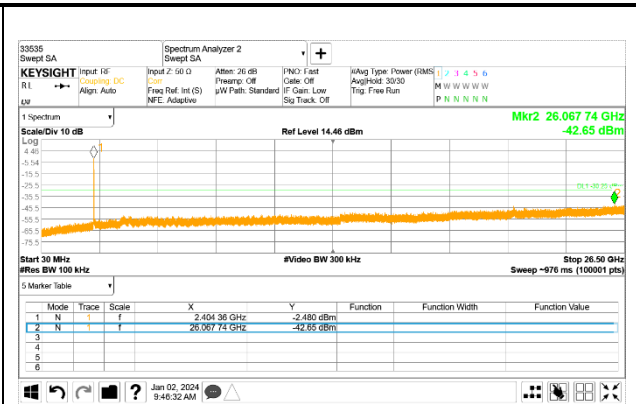
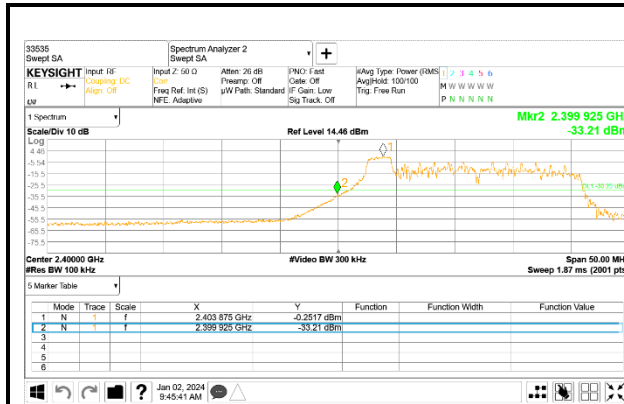
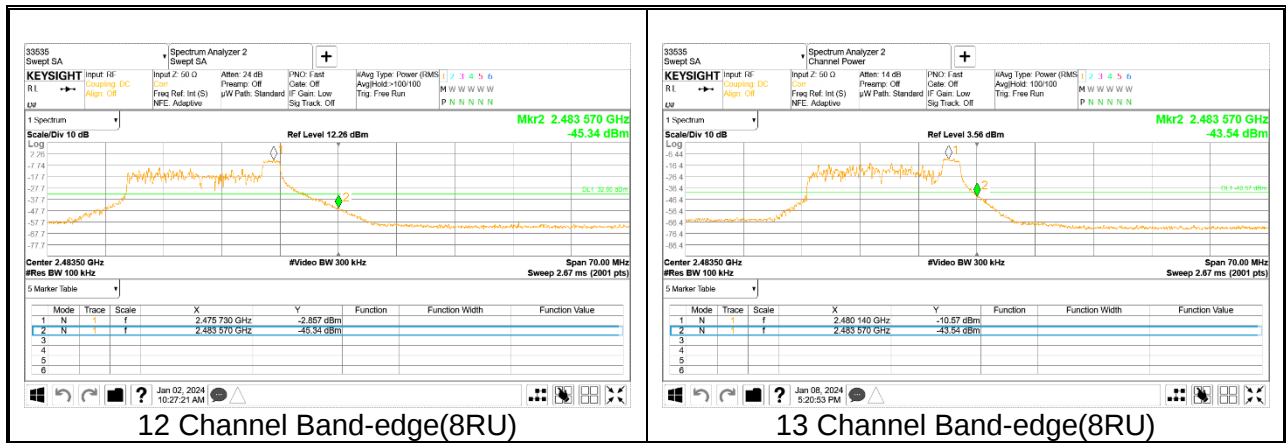


2TX Antenna 2 MODE





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 MIMO mode = 0 dB (duty cycle > 98%);
802.11g MIMO mode = 0.15 dB (96.54%);
802.11n(HT20) MIMO mode = 0 dB (duty cycle > 98%);
802.11ax(HE20) MIMO SU mode = 0.19 dB (95.70%);
802.11ax(HE20) MIMO 26 Tone mode = 0.13 dB (97.08%);

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.

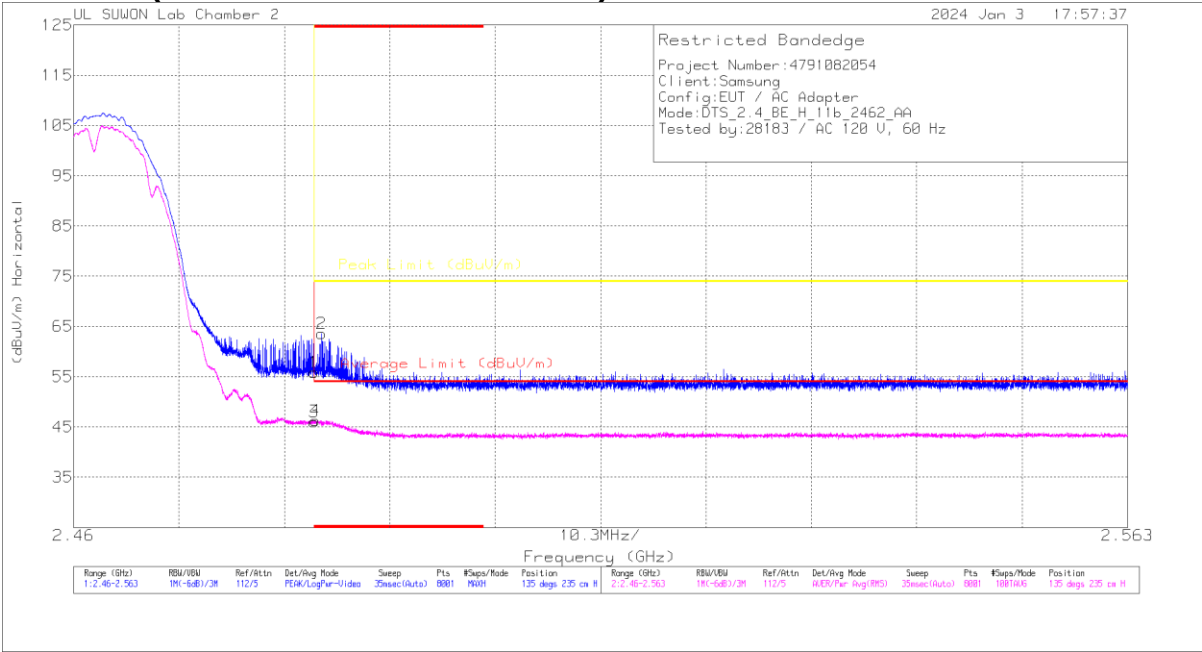
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

BANDEDGE (WORST CASE: 11 CHANNEL)



HORIZONTAL RESULT

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dBm)	Loss (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	43.22	PK	31.9	-19.3	0	55.62	-	-	74	-18.18	135	235	H
2	* 2.48426	50.96	PK	31.9	-19.3	0	63.56	-	-	74	-10.44	135	235	H
3	* 2.48351	33.48	RMS	31.9	-19.3	0	46.08	54	-7.92	-	-	135	235	H
4	* 2.48363	33.72	RMS	31.9	-19.3	0	46.32	54	-7.68	-	-	135	235	H

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

BANDEDGE TEST DATA

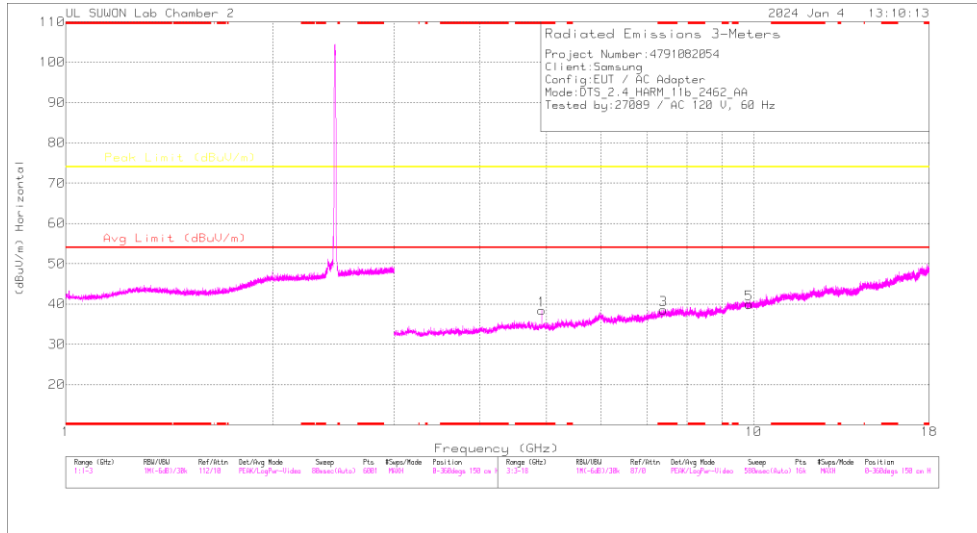
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	42.85	Pk	31.70	-19.60	0.00	54.95	-	-	74.00	-19.05	135	101	H
		* 2.38872	47.70	Pk	31.70	-19.50	0.00	59.90	-	-	74.00	-14.10	135	101	H
		* 2.39	32.32	RMS	31.70	-19.60	0.00	44.42	54.00	-9.58	-	-	135	100	H
		* 2.3891	32.98	RMS	31.70	-19.60	0.00	45.08	54.00	-8.92	-	-	135	100	H
		* 2.39	41.60	Pk	31.70	-19.60	0.00	53.70	-	-	74.00	-20.30	195	396	V
		* 2.38619	44.28	Pk	31.70	-19.60	0.00	56.38	-	-	74.00	-17.62	195	396	V
		* 2.39	31.37	RMS	31.70	-19.60	0.00	43.47	54.00	-10.53	-	-	195	396	V
		* 2.38985	31.99	RMS	31.70	-19.60	0.00	44.09	54.00	-9.91	-	-	195	396	V
2462	MIMO	* 2.48351	43.22	Pk	31.90	-19.30	0.00	55.82	-	-	74.00	-18.18	135	235	H
		* 2.48426	50.96	Pk	31.90	-19.30	0.00	63.56	-	-	74.00	-10.44	135	235	H
		* 2.48351	33.48	RMS	31.90	-19.30	0.00	46.08	54.00	-7.92	-	-	135	235	H
		* 2.48363	33.72	RMS	31.90	-19.30	0.00	46.32	54.00	-7.68	-	-	135	235	H
		* 2.48351	42.59	Pk	31.90	-19.30	0.00	55.19	-	-	74.00	-18.81	200	376	V
		* 2.48408	47.87	Pk	31.90	-19.30	0.00	60.47	-	-	74.00	-13.53	200	376	V
		* 2.48351	32.44	RMS	31.90	-19.30	0.00	45.04	54.00	-8.96	-	-	200	376	V
		* 2.48397	33.15	RMS	31.90	-19.30	0.00	45.75	54.00	-8.25	-	-	200	376	V
2467	MIMO	* 2.48351	41.95	Pk	31.90	-19.30	0.00	54.55	-	-	74.00	-19.45	131	165	H
		* 2.48543	45.44	Pk	31.90	-19.30	0.00	58.04	-	-	74.00	-15.96	131	165	H
		* 2.48351	31.47	RMS	31.90	-19.30	0.00	44.07	54.00	-9.93	-	-	131	165	H
		* 2.48521	31.95	RMS	31.90	-19.30	0.00	44.55	54.00	-9.45	-	-	131	165	H
		* 2.48351	40.26	Pk	31.90	-19.30	0.00	52.86	-	-	74.00	-21.14	192	378	V
		2.519	43.87	Pk	31.90	-19.30	0.00	56.47	-	-	74.00	-17.53	192	378	V
		* 2.48351	30.41	RMS	31.90	-19.30	0.00	43.01	54.00	-10.99	-	-	192	378	V
		2.561	31.38	RMS	32.00	-19.30	0.00	44.08	54.00	-9.92	-	-	192	378	V
2472	MIMO	* 2.48351	40.86	Pk	31.90	-19.30	0.00	53.46	-	-	74.00	-20.54	131	163	H
		* 2.49735	43.75	Pk	31.90	-19.30	0.00	56.35	-	-	74.00	-17.65	131	163	H
		* 2.48351	31.62	RMS	31.90	-19.30	0.00	44.22	54.00	-9.78	-	-	131	163	H
		* 2.48374	31.95	RMS	31.90	-19.30	0.00	44.55	54.00	-9.45	-	-	131	163	H
		* 2.48351	41.68	Pk	31.90	-19.30	0.00	54.28	-	-	74.00	-19.72	192	290	V
		* 2.48428	44.07	Pk	31.90	-19.30	0.00	56.67	-	-	74.00	-17.33	192	290	V
		* 2.48351	30.92	RMS	31.90	-19.30	0.00	43.42	54.00	-10.58	-	-	192	290	V
		* 2.48544	31.68	RMS	31.90	-19.30	0.00	44.28	54.00	-9.72	-	-	192	290	V

Note1. Pk - Peak detector, RMS - RMS detector

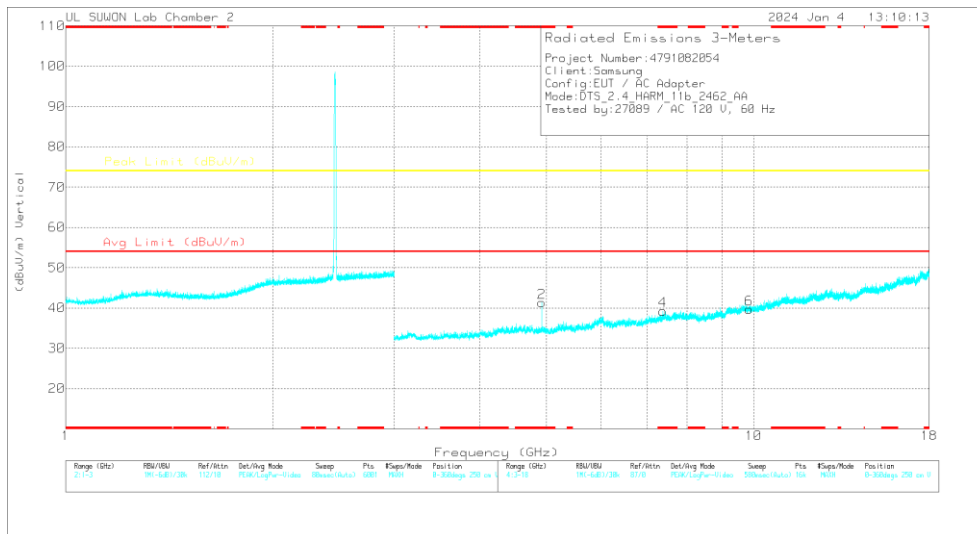
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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	Antenna Correction Factor (dB/m)	Loss (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
* 4.92397	39.77	PK2	34	-26.2	0	47.57	-	-	74	-26.43	197	396	H
* 4.92397	33.51	MAV1	34	-26.2	0	41.31	54	-12.69	-	-	197	396	H
* 4.92387	42.07	PK2	34	-26.2	0	49.87	-	-	74	-24.13	268	365	V
* 4.92395	36.85	MAV1	34	-26.2	0	44.65	54	-9.35	-	-	268	365	V
* 7.38852	34.9	PK2	35.7	-22.9	0	47.7	-	-	74	-26.3	309	100	H
* 7.38478	23.29	MAV1	35.7	-23	0	35.99	54	-18.01	-	-	309	100	H
* 7.38757	35.49	PK2	35.7	-23	0	48.19	-	-	74	-25.81	264	112	V
* 7.38693	25.14	MAV1	35.7	-23	0	37.84	54	-16.16	-	-	264	112	V
9.85023	32.13	PK2	37.2	-21	0	48.33	-	-	74	-25.67	0	100	H
9.85588	32.65	PK2	37.2	-20.9	0	48.95	-	-	74	-25.05	0	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 [dB/m]	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	* 4.82413	37.42	PK2	34.00	-27.00	0.00	44.42	-	-	74.00	-29.58	205	100	H
		* 4.82409	26.62	MAv1	34.00	-27.00	0.00	33.62	54.00	-20.38	-	-	205	100	H
		* 4.82404	38.09	PK2	34.00	-27.00	0.00	45.09	-	-	74.00	-28.91	233	100	V
		* 4.82394	30.15	MAv1	34.00	-27.00	0.00	37.15	54.00	-16.85	-	-	233	100	V
		7.239	35.35	PK2	35.70	-24.40	0.00	46.65	-	-	74.00	-27.35	0	100	H
		7.229	36.13	PK2	35.70	-24.40	0.00	47.43	-	-	74.00	-26.57	0	100	V
		9.651	32.87	PK2	37.00	-20.80	0.00	49.07	-	-	74.00	-24.93	0	100	H
		9.650	32.54	PK2	37.00	-20.80	0.00	48.74	-	-	74.00	-25.26	0	100	V
2437	MIMO	* 4.87408	37.95	PK2	34.00	-26.80	0.00	45.15	-	-	74.00	-28.85	174	327	H
		* 4.87406	29.72	MAv1	34.00	-26.80	0.00	36.92	54.00	-17.08	-	-	174	327	H
		* 4.87402	39.88	PK2	34.00	-26.80	0.00	47.08	-	-	74.00	-26.92	283	396	V
		* 4.87394	33.33	MAv1	34.00	-26.80	0.00	40.53	54.00	-13.47	-	-	283	396	V
		* 7.31889	35.51	PK2	35.70	-23.70	0.00	47.51	-	-	74.00	-26.49	0	100	H
		* 7.30422	35.55	PK2	35.70	-24.00	0.00	47.25	-	-	74.00	-26.75	0	100	V
		9.753	32.87	PK2	37.10	-20.70	0.00	49.27	-	-	74.00	-24.73	0	100	H
		9.740	32.35	PK2	37.10	-20.60	0.00	48.85	-	-	74.00	-25.15	0	100	V
2462	MIMO	* 4.92397	39.77	PK2	34.00	-26.20	0.00	47.57	-	-	74.00	-26.43	197	396	H
		* 4.92397	33.51	MAv1	34.00	-26.20	0.00	41.31	54.00	-12.69	-	-	197	396	H
		* 4.92387	42.07	PK2	34.00	-26.20	0.00	49.87	-	-	74.00	-24.13	268	365	V
		* 4.92395	36.85	MAv1	34.00	-26.20	0.00	44.65	54.00	-9.35	-	-	268	365	V
		* 7.38852	34.90	PK2	35.70	-22.90	0.00	47.70	-	-	74.00	-26.30	309	100	H
		* 7.38478	23.29	MAv1	35.70	-23.00	0.00	35.99	54.00	-18.01	-	-	309	100	H
		* 7.38757	35.49	PK2	35.70	-23.00	0.00	48.19	-	-	74.00	-25.81	264	112	V
		* 7.38693	25.14	MAv1	35.70	-23.00	0.00	37.84	54.00	-16.16	-	-	264	112	V
		9.850	32.13	PK2	37.20	-21.00	0.00	48.33	-	-	74.00	-25.67	0	100	H
		9.856	32.65	PK2	37.20	-20.90	0.00	48.95	-	-	74.00	-25.05	0	100	V

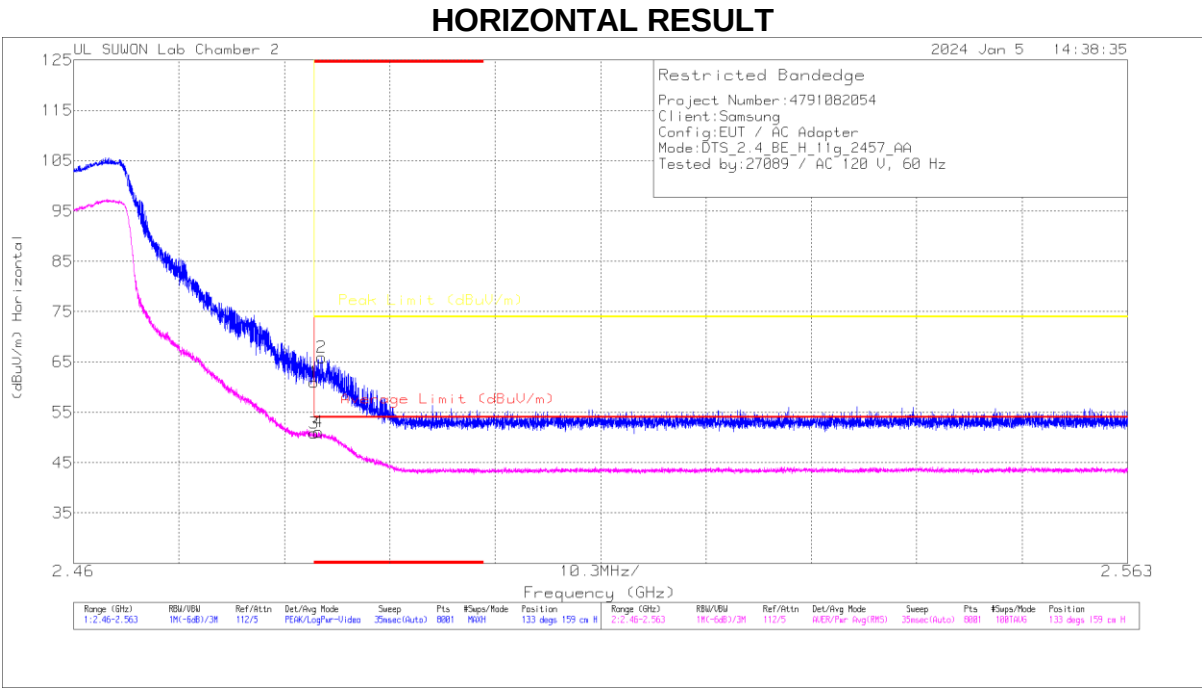
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

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 Mode

BANDEDGE (WORST CASE: 10 CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna Correction Factor(dBm)	Loss(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	48.36	Pk	31.9	-19.3	0	60.96	-	-	74	-13.04	133	159	H
2	* 2.48422	53.3	Pk	31.9	-19.3	0	65.9	-	-	74	-8.1	133	159	H
3	* 2.48351	38.16	RMS	31.9	-19.3	-15	50.91	54	-3.09	-	-	133	159	H
4	* 2.48393	38.32	RMS	31.9	-19.3	-15	51.07	54	-2.93	-	-	133	159	H

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

BANDEDGE TEST DATA

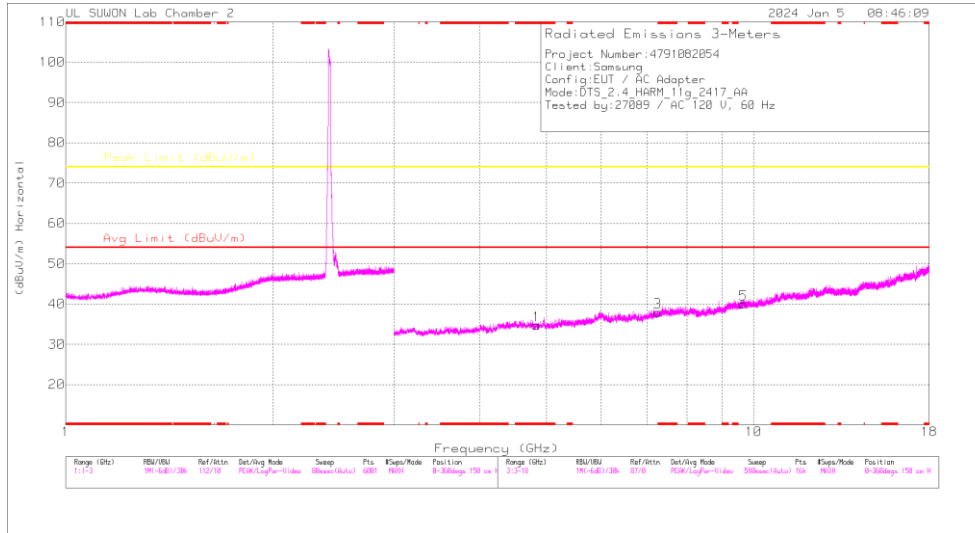
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result dBuV/m	AV Limit dBuV/m	AV Margin [dB]	PK Limit dBuV/m	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	45.42	Pk	31.70	-19.60	0.00	57.52	-	-	74.00	-16.48	140	100	H
		* 2.38971	48.20	Pk	31.70	-19.60	0.00	60.30	-	-	74.00	-13.70	140	100	H
		* 2.39	33.37	RMS	31.70	-19.60	0.15	45.62	54.00	-8.38	-	-	140	100	H
		* 2.38996	33.48	RMS	31.70	-19.60	0.15	45.73	54.00	-8.27	-	-	140	100	H
		* 2.39	42.62	Pk	31.70	-19.60	0.00	54.72	-	-	74.00	-19.28	195	398	V
		* 2.38847	47.27	Pk	31.70	-19.50	0.00	59.47	-	-	74.00	-14.53	195	398	V
		* 2.39	31.66	RMS	31.70	-19.60	0.15	43.91	54.00	-10.09	-	-	195	398	V
		* 2.38992	32.33	RMS	31.70	-19.60	0.15	44.58	54.00	-9.42	-	-	195	398	V
2417	MIMO	* 2.39	47.59	Pk	31.70	-19.60	0.00	59.69	-	-	74.00	-14.31	131	147	H
		* 2.38955	48.96	Pk	31.70	-19.60	0.00	61.06	-	-	74.00	-12.94	131	147	H
		* 2.39	33.63	RMS	31.70	-19.60	0.15	45.88	54.00	-8.12	-	-	131	147	H
		* 2.38987	33.84	RMS	31.70	-19.60	0.15	46.09	54.00	-7.91	-	-	131	147	H
		* 2.39	43.80	Pk	31.70	-19.60	0.00	55.90	-	-	74.00	-18.10	192	400	V
		* 2.38947	45.96	Pk	31.70	-19.60	0.00	58.06	-	-	74.00	-15.94	192	400	V
		* 2.39	32.43	RMS	31.70	-19.60	0.15	44.68	54.00	-9.32	-	-	192	400	V
		* 2.38984	32.68	RMS	31.70	-19.60	0.15	44.93	54.00	-9.07	-	-	192	400	V
2457	MIMO	* 2.48351	48.36	Pk	31.90	-19.30	0.00	60.96	-	-	74.00	-13.04	133	159	H
		* 2.48422	53.30	Pk	31.90	-19.30	0.00	65.90	-	-	74.00	-8.10	133	159	H
		* 2.48351	38.16	RMS	31.90	-19.30	0.15	50.91	54.00	-3.09	-	-	133	159	H
		* 2.48393	38.32	RMS	31.90	-19.30	0.15	51.07	54.00	-2.93	-	-	133	159	H
		* 2.48351	46.75	Pk	31.90	-19.30	0.00	59.35	-	-	74.00	-14.65	190	376	V
		* 2.48426	51.06	Pk	31.90	-19.30	0.00	63.66	-	-	74.00	-10.34	190	376	V
		* 2.48351	36.04	RMS	31.90	-19.30	0.15	48.79	54.00	-5.21	-	-	190	376	V
		* 2.48382	36.62	RMS	31.90	-19.30	0.15	49.37	54.00	-4.63	-	-	190	376	V
2462	MIMO	* 2.48351	42.42	Pk	31.90	-19.30	0.00	55.02	-	-	74.00	-18.98	165	166	H
		* 2.48379	50.34	Pk	31.90	-19.30	0.00	62.94	-	-	74.00	-11.06	165	166	H
		* 2.48351	33.63	RMS	31.90	-19.30	0.15	46.38	54.00	-7.62	-	-	165	166	H
		* 2.48402	34.07	RMS	31.90	-19.30	0.15	46.82	54.00	-7.18	-	-	165	166	H
		* 2.48351	41.81	Pk	31.90	-19.30	0.00	54.41	-	-	74.00	-19.59	193	376	V
		* 2.48463	48.21	Pk	31.90	-19.30	0.00	60.81	-	-	74.00	-13.19	193	376	V
		* 2.48351	31.69	RMS	31.90	-19.30	0.15	44.44	54.00	-9.56	-	-	193	376	V
		* 2.48508	32.49	RMS	31.90	-19.30	0.15	45.24	54.00	-8.76	-	-	193	376	V
2467	MIMO	* 2.48351	49.33	Pk	31.90	-19.30	0.00	61.93	-	-	74.00	-12.07	165	165	H
		* 2.48366	51.63	Pk	31.90	-19.30	0.00	64.23	-	-	74.00	-9.77	165	165	H
		* 2.48351	34.55	RMS	31.90	-19.30	0.15	47.30	54.00	-6.70	-	-	165	165	H
		* 2.48373	34.65	RMS	31.90	-19.30	0.15	47.40	54.00	-6.60	-	-	165	165	H
		* 2.48351	46.95	Pk	31.90	-19.30	0.00	59.55	-	-	74.00	-14.45	194	370	V
		* 2.48365	48.48	Pk	31.90	-19.30	0.00	61.08	-	-	74.00	-12.92	194	370	V
		* 2.48351	32.81	RMS	31.90	-19.30	0.15	45.56	54.00	-8.44	-	-	194	370	V
		* 2.48365	33.23	RMS	31.90	-19.30	0.15	45.98	54.00	-8.02	-	-	194	370	V
2472	MIMO	* 2.48351	52.02	Pk	31.90	-19.30	0.00	64.62	-	-	74.00	-9.38	165	165	H
		* 2.48356	52.02	Pk	31.90	-19.30	0.00	64.62	-	-	74.00	-9.38	165	165	H
		* 2.48351	35.66	RMS	31.90	-19.30	0.15	48.41	54.00	-5.59	-	-	165	165	H
		* 2.48356	35.22	RMS	31.90	-19.30	0.15	47.97	54.00	-6.03	-	-	165	165	H
		* 2.48351	48.70	Pk	31.90	-19.30	0.00	61.30	-	-	74.00	-12.70	195	370	V
		* 2.48356	49.01	Pk	31.90	-19.30	0.00	61.61	-	-	74.00	-12.39	195	370	V
		* 2.48351	34.38	RMS	31.90	-19.30	0.15	47.13	54.00	-6.87	-	-	195	370	V
		* 2.48357	34.13	RMS	31.90	-19.30	0.15	46.88	54.00	-7.12	-	-	195	370	V

Note1. Pk - Peak detector, RMS - RMS detector

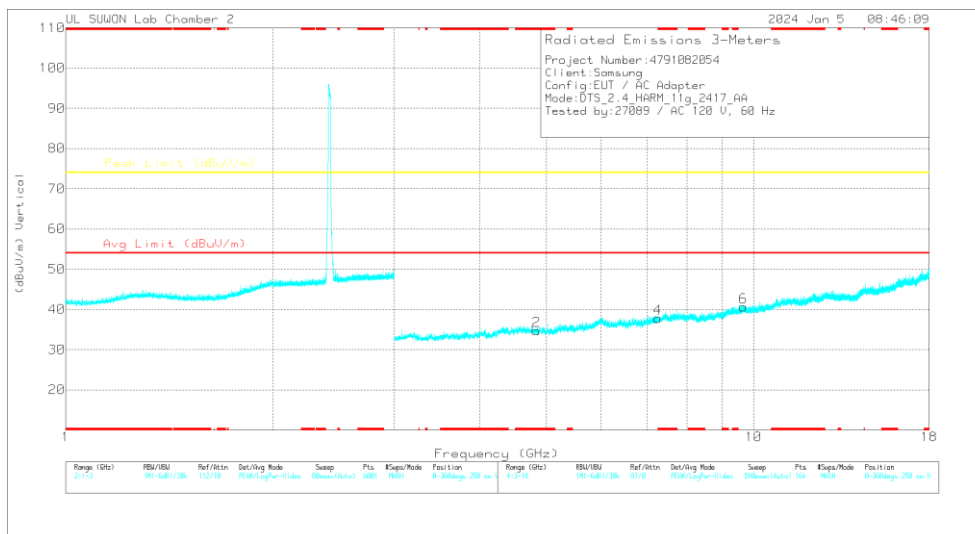
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 2 CHANNEL)

CH 2 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	Antenna Correction Factor (dB/m)	Loss (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
* 4.83455	36.74	PK2	34	-26.9	0	43.84	-	-	74	-30.16	0	100	H
* 4.83958	37.53	PK2	34	-26.9	0	44.63	-	-	74	-29.37	0	100	V
* 7.53666	34.57	PK2	35.8	-23.8	0	46.57	-	-	74	-27.43	0	100	H
* 7.50206	34.15	PK2	35.8	-23.7	0	46.25	-	-	74	-27.75	0	100	V
9.66399	32.66	PK2	37	-20.8	0	48.86	-	-	74	-25.14	0	100	H
9.66002	32.71	PK2	37	-20.8	0	48.91	-	-	74	-25.09	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 [dB/m]	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
2417	MIMO	* 4.83455	36.74	PK2	34.00	-26.90	0.00	43.84	-	-	74.00	-30.16	0	100	H
		* 4.83958	37.53	PK2	34.00	-26.90	0.00	44.63	-	-	74.00	-29.37	0	100	V
		* 7.53666	34.57	PK2	35.80	-23.80	0.00	46.57	-	-	74.00	-27.43	0	100	H
		* 7.50206	34.15	PK2	35.80	-23.70	0.00	46.25	-	-	74.00	-27.75	0	100	V
		9.664	32.66	PK2	37.00	-20.80	0.00	48.86	-	-	74.00	-25.14	0	100	H
2437	MIMO	9.660	32.71	PK2	37.00	-20.80	0.00	48.91	-	-	74.00	-25.09	0	100	V
		* 4.87964	36.13	PK2	34.00	-26.70	0.00	43.43	-	-	74.00	-30.57	0	100	H
		* 4.87639	36.38	PK2	34.00	-26.70	0.00	43.68	-	-	74.00	-30.32	0	100	V
		* 7.30751	35.02	PK2	35.70	-23.90	0.00	46.82	-	-	74.00	-27.18	0	100	H
		* 7.31281	34.62	PK2	35.70	-23.80	0.00	46.52	-	-	74.00	-27.48	0	100	V
2457	MIMO	9.741	32.08	PK2	37.10	-20.60	0.00	48.58	-	-	74.00	-25.42	0	100	H
		9.755	32.19	PK2	37.10	-20.70	0.00	48.59	-	-	74.00	-25.41	0	100	V
		* 4.91129	36.46	PK2	34.00	-26.30	0.00	44.16	-	-	74.00	-29.84	0	100	H
		* 4.90774	35.90	PK2	34.00	-26.40	0.00	43.50	-	-	74.00	-30.50	0	100	V
		* 7.36492	34.36	PK2	35.70	-23.20	0.00	46.86	-	-	74.00	-27.14	0	100	H
		* 7.37059	34.45	PK2	35.70	-23.20	0.00	46.95	-	-	74.00	-27.05	0	100	V
		9.820	32.38	PK2	37.20	-21.00	0.00	48.58	-	-	74.00	-25.42	0	100	H
		9.833	32.62	PK2	37.20	-21.10	0.00	48.72	-	-	74.00	-25.28	0	100	V

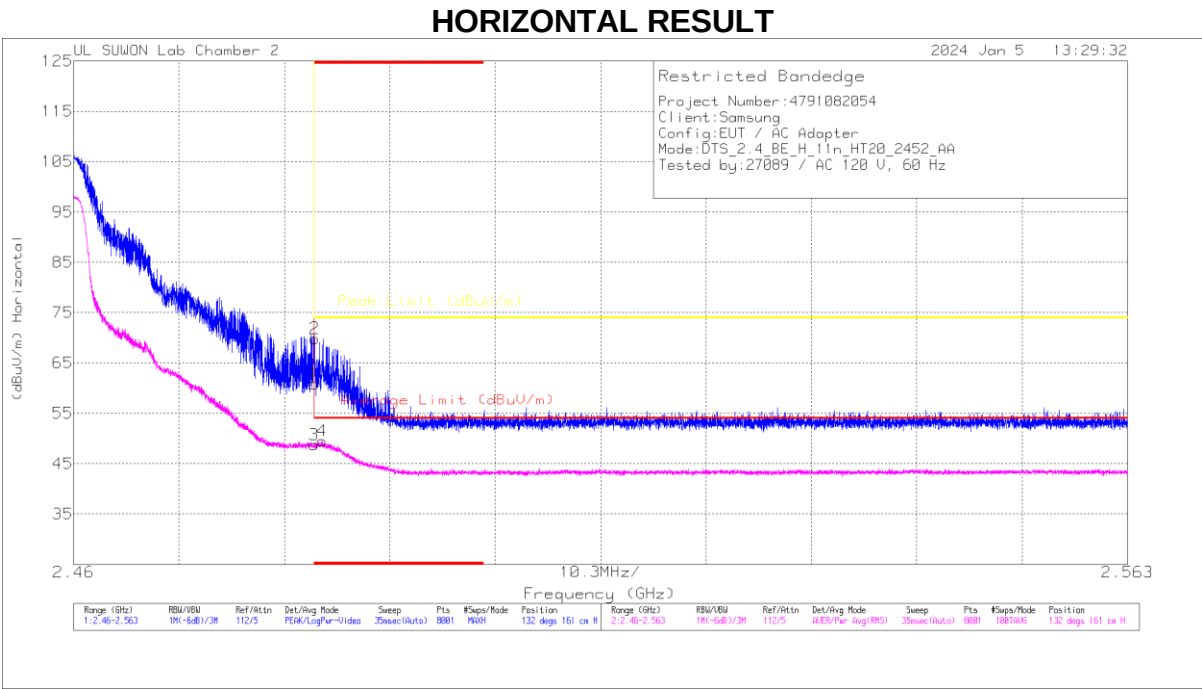
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

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

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

2TX Mode

BANDEDGE (WORST CASE: 9 CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna Correction Factor(dBm)	Loss(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	48.23	PK	31.9	-19.3	0	69.83	-	-	74	-13.17	132	161	H
2	* 2.48356	57.28	PK	31.9	-19.3	0	69.88	-	-	74	-4.12	132	161	H
3	* 2.48351	36.15	RMS	31.9	-19.3	0	48.75	54	-5.25	-	-	132	161	H
4	* 2.48427	36.87	RMS	31.9	-19.3	0	49.47	54	-4.53	-	-	132	161	H

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

BANDEDGE TEST DATA

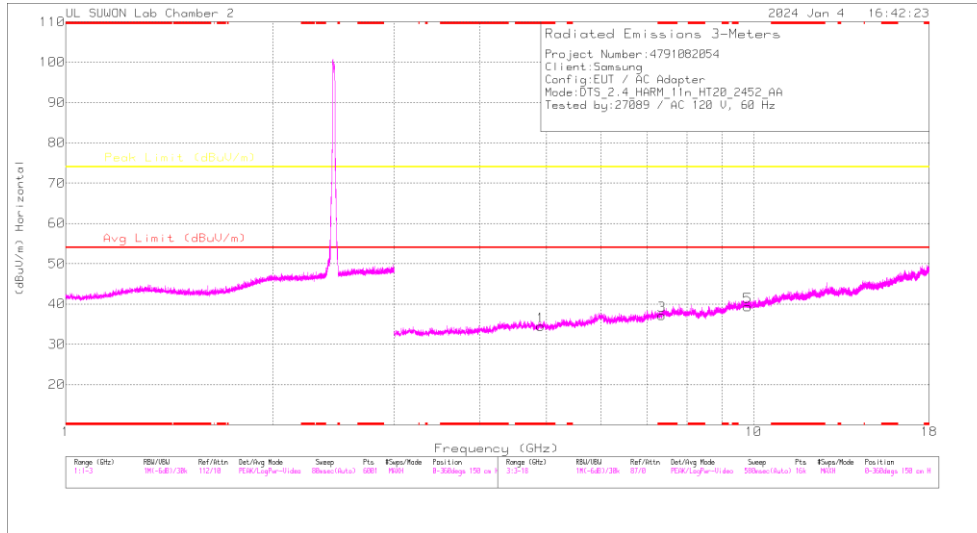
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	41.32	Pk	31.70	-19.60	0.00	53.42	-	-	74.00	-20.58	140	102	H
		* 2.38958	46.52	Pk	31.70	-19.60	0.00	58.62	-	-	74.00	-15.38	140	102	H
		* 2.39	32.28	RMS	31.70	-19.60	0.00	44.38	54.00	-9.62	-	-	140	102	H
		* 2.38941	32.60	RMS	31.70	-19.60	0.00	44.70	54.00	-9.30	-	-	140	102	H
		* 2.39	40.37	Pk	31.70	-19.60	0.00	52.47	-	-	74.00	-21.53	192	395	V
		* 2.38609	44.52	Pk	31.70	-19.60	0.00	56.62	-	-	74.00	-17.38	192	395	V
		* 2.39	31.34	RMS	31.70	-19.60	0.00	43.44	54.00	-10.56	-	-	192	395	V
		* 2.38219	31.75	RMS	31.70	-19.50	0.00	43.95	54.00	-10.05	-	-	192	395	V
2417	MIMO	* 2.39	49.19	Pk	31.70	-19.60	0.00	61.29	-	-	74.00	-12.71	129	150	H
		* 2.38992	57.49	Pk	31.70	-19.60	0.00	69.59	-	-	74.00	-4.41	129	150	H
		* 2.39	34.82	RMS	31.70	-19.60	0.00	46.92	54.00	-7.08	-	-	129	150	H
		* 2.38987	35.14	RMS	31.70	-19.60	0.00	47.24	54.00	-6.76	-	-	129	150	H
		* 2.39	47.67	Pk	31.70	-19.60	0.00	59.77	-	-	74.00	-14.23	191	397	V
		* 2.38979	52.70	Pk	31.70	-19.60	0.00	64.80	-	-	74.00	-9.20	191	397	V
		* 2.39	33.06	RMS	31.70	-19.60	0.00	45.16	54.00	-8.84	-	-	191	397	V
		* 2.38996	33.17	RMS	31.70	-19.60	0.00	45.27	54.00	-8.73	-	-	191	397	V
2452	MIMO	* 2.48351	48.23	Pk	31.90	-19.30	0.00	60.83	-	-	74.00	-13.17	132	161	H
		* 2.48356	57.28	Pk	31.90	-19.30	0.00	69.88	-	-	74.00	-4.12	132	161	H
		* 2.48351	36.15	RMS	31.90	-19.30	0.00	48.75	54.00	-5.25	-	-	132	161	H
		* 2.48427	36.87	RMS	31.90	-19.30	0.00	49.47	54.00	-4.53	-	-	132	161	H
		* 2.48351	44.55	Pk	31.90	-19.30	0.00	57.15	-	-	74.00	-16.85	198	296	V
		* 2.48381	53.44	Pk	31.90	-19.30	0.00	66.04	-	-	74.00	-7.96	198	296	V
		* 2.48351	33.05	RMS	31.90	-19.30	0.00	45.65	54.00	-8.35	-	-	198	296	V
		* 2.48421	34.09	RMS	31.90	-19.30	0.00	46.69	54.00	-7.31	-	-	198	296	V
2457	MIMO	* 2.48351	48.48	Pk	31.90	-19.30	0.00	61.08	-	-	74.00	-12.92	162	143	H
		* 2.48404	56.44	Pk	31.90	-19.30	0.00	69.04	-	-	74.00	-4.96	162	143	H
		* 2.48351	35.56	RMS	31.90	-19.30	0.00	48.16	54.00	-5.84	-	-	162	143	H
		* 2.4852	36.17	RMS	31.90	-19.30	0.00	48.77	54.00	-5.23	-	-	162	143	H
		* 2.48351	44.69	Pk	31.90	-19.30	0.00	57.29	-	-	74.00	-16.71	204	334	V
		* 2.48354	53.32	Pk	31.90	-19.30	0.00	65.92	-	-	74.00	-8.08	204	334	V
		* 2.48351	33.41	RMS	31.90	-19.30	0.00	46.01	54.00	-7.99	-	-	204	334	V
		* 2.48484	34.30	RMS	31.90	-19.30	0.00	46.90	54.00	-7.10	-	-	204	334	V
2462	MIMO	* 2.48351	43.04	Pk	31.90	-19.30	0.00	55.64	-	-	74.00	-18.36	168	167	H
		* 2.48513	49.38	Pk	31.90	-19.30	0.00	61.98	-	-	74.00	-12.02	168	167	H
		* 2.48351	33.48	RMS	31.90	-19.30	0.00	46.08	54.00	-7.92	-	-	168	167	H
		* 2.48368	34.01	RMS	31.90	-19.30	0.00	46.61	54.00	-7.39	-	-	168	167	H
		* 2.48351	41.46	Pk	31.90	-19.30	0.00	54.06	-	-	74.00	-19.94	205	332	V
		* 2.48413	47.08	Pk	31.90	-19.30	0.00	59.68	-	-	74.00	-14.32	205	332	V
		* 2.48351	31.80	RMS	31.90	-19.30	0.00	44.40	54.00	-9.60	-	-	205	332	V
		* 2.48522	32.46	RMS	31.90	-19.30	0.00	45.06	54.00	-8.94	-	-	205	332	V
2467	MIMO	* 2.48351	49.46	Pk	31.90	-19.30	0.00	62.06	-	-	74.00	-11.94	126	118	H
		* 2.48359	51.47	Pk	31.90	-19.30	0.00	64.07	-	-	74.00	-9.93	126	118	H
		* 2.48351	33.05	RMS	31.90	-19.30	0.00	45.65	54.00	-8.35	-	-	126	118	H
		* 2.48363	33.89	RMS	31.90	-19.30	0.00	46.49	54.00	-7.51	-	-	126	118	H
		* 2.48351	47.08	Pk	31.90	-19.30	0.00	59.68	-	-	74.00	-14.32	205	332	V
		* 2.48354	48.29	Pk	31.90	-19.30	0.00	60.89	-	-	74.00	-13.11	205	332	V
		* 2.48351	32.93	RMS	31.90	-19.30	0.00	45.53	54.00	-8.47	-	-	205	332	V
		* 2.48364	32.76	RMS	31.90	-19.30	0.00	45.36	54.00	-8.64	-	-	205	332	V
2472	MIMO	* 2.48351	51.42	Pk	31.90	-19.30	0.00	64.02	-	-	74.00	-9.98	166	188	H
		* 2.48365	55.86	Pk	31.90	-19.30	0.00	68.46	-	-	74.00	-5.54	166	188	H
		* 2.48351	36.23	RMS	31.90	-19.30	0.00	48.83	54.00	-5.17	-	-	166	188	H
		* 2.48355	36.63	RMS	31.90	-19.30	0.00	49.23	54.00	-4.77	-	-	166	188	H
		* 2.48351	50.57	Pk	31.90	-19.30	0.00	63.17	-	-	74.00	-10.83	207	331	V
		* 2.48356	51.63	Pk	31.90	-19.30	0.00	64.23	-	-	74.00	-9.77	207	331	V
		* 2.48351	34.71	RMS	31.90	-19.30	0.00	47.31	54.00	-6.69	-	-	207	331	V
		* 2.48357	34.59	RMS	31.90	-19.30	0.00	47.19	54.00	-6.81	-	-	207	331	V

Note1. Pk - Peak detector, RMS - RMS detector

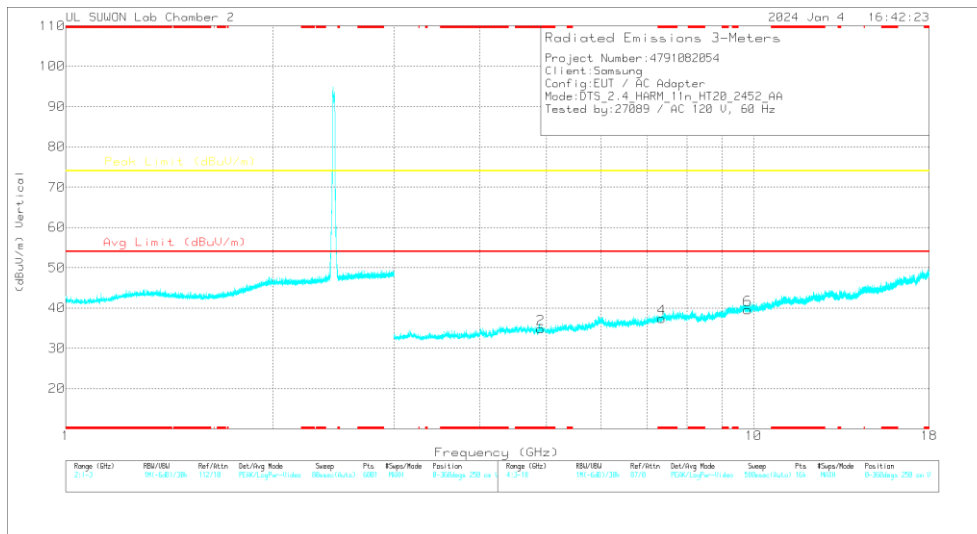
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 9 CHANNEL)

CH 9 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	Antenna Correction Factor (dB/m)	Loss (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
* 4.89591	35.69	PK2	34	-26.4	0	43.29	-	-	74	-30.71	0	100	H
* 4.90141	35.91	PK2	34	-26.4	0	43.51	-	-	74	-30.49	0	100	V
* 7.35632	35	PK2	35.7	-23.2	0	47.5	-	-	74	-26.5	0	100	H
* 7.36303	34.91	PK2	35.7	-23.2	0	47.41	-	-	74	-26.59	0	100	V
9.81299	32.61	PK2	37.2	-21	0	48.81	-	-	74	-25.19	0	100	H
9.81344	33.18	PK2	37.2	-21	0	49.38	-	-	74	-24.62	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 [dB/m]	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
2417	MIMO	* 4.84362	36.83	PK2	34.00	-27.00	0.00	43.83	-	-	74.00	-30.17	0	100	H
		* 4.82791	37.34	PK2	34.00	-26.90	0.00	44.44	-	-	74.00	-29.56	0	100	V
		* 7.32586	34.22	PK2	35.70	-23.60	0.00	46.32	-	-	74.00	-27.68	0	100	H
		* 7.52034	34.56	PK2	35.80	-23.80	0.00	46.56	-	-	74.00	-27.44	0	100	V
		9.668	32.53	PK2	37.00	-20.70	0.00	48.83	-	-	74.00	-25.17	0	100	H
2437	MIMO	9.661	33.50	PK2	37.00	-20.70	0.00	49.80	-	-	74.00	-24.20	0	100	V
		* 4.87171	36.68	PK2	34.00	-26.70	0.00	43.98	-	-	74.00	-30.02	0	100	H
		* 4.87487	36.27	PK2	34.00	-26.70	0.00	43.57	-	-	74.00	-30.43	0	100	V
		* 7.31146	35.64	PK2	35.70	-23.90	0.00	47.44	-	-	74.00	-26.56	0	100	H
		* 7.30654	35.57	PK2	35.70	-23.90	0.00	47.37	-	-	74.00	-26.63	0	100	V
2452	MIMO	9.739	32.48	PK2	37.10	-20.60	0.00	48.98	-	-	74.00	-25.02	0	100	H
		9.753	33.66	PK2	37.10	-20.70	0.00	50.06	-	-	74.00	-23.94	0	100	V
		* 4.89591	35.69	PK2	34.00	-26.40	0.00	43.29	-	-	74.00	-30.71	0	100	H
		* 4.90141	35.91	PK2	34.00	-26.40	0.00	43.51	-	-	74.00	-30.49	0	100	V
		* 7.35632	35.00	PK2	35.70	-23.20	0.00	47.50	-	-	74.00	-26.50	0	100	H
		* 7.36303	34.91	PK2	35.70	-23.20	0.00	47.41	-	-	74.00	-26.59	0	100	V
		9.813	32.61	PK2	37.20	-21.00	0.00	48.81	-	-	74.00	-25.19	0	100	H
		9.813	33.18	PK2	37.20	-21.00	0.00	49.38	-	-	74.00	-24.62	0	100	V

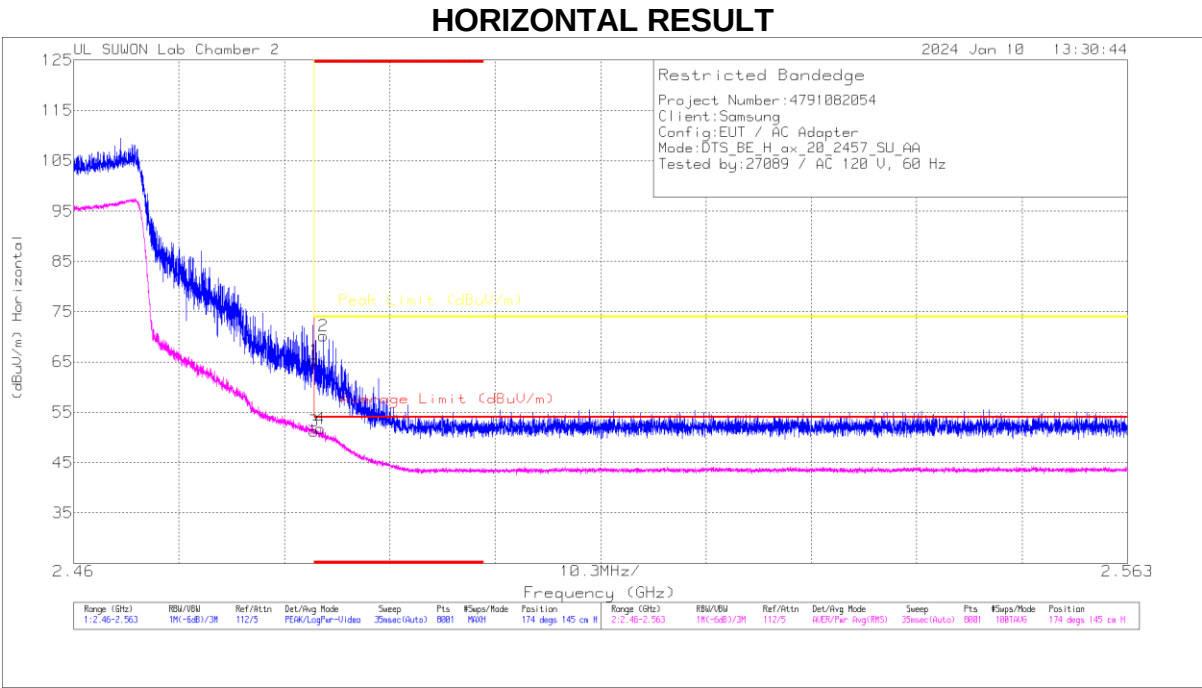
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

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

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

2TX Mode

BANDEDGE (10 CHANNEL, SU)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dBm)	Loss(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	52.72	PK	31.9	-19.3	0	65.32	-	-	74	-8.68	174	145	H
2	* 2.48439	57.63	PK	31.9	-19.3	0	70.23	-	-	74	-3.77	174	145	H
3	* 2.48351	38.41	RMS	31.9	-19.3	.19	51.2	54	-2.8	-	-	174	145	H
4	* 2.48441	38.92	RMS	31.9	-19.3	.19	51.71	54	-2.29	-	-	174	145	H

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

BANDEDGE TEST DATA

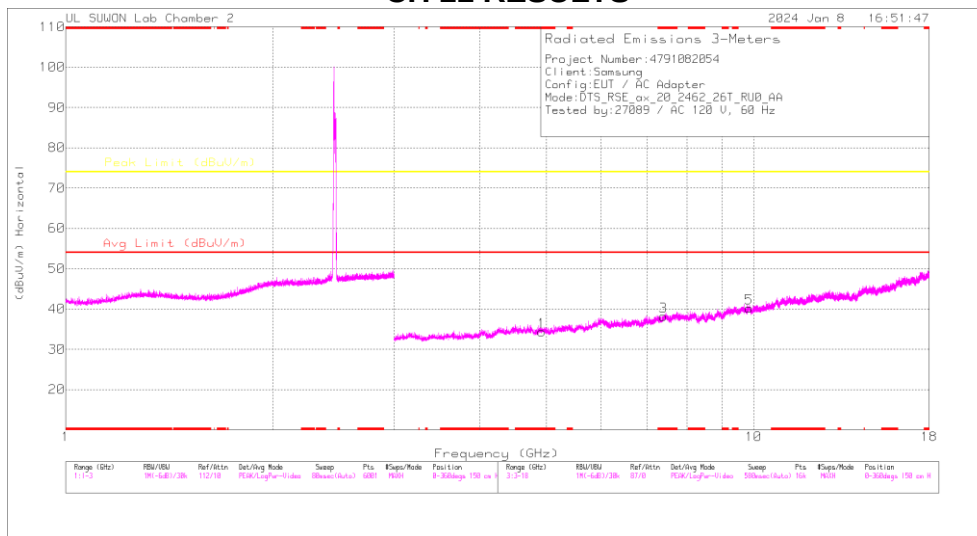
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result dBuV/m	AV Limit dBuV/m	AV Margin [dB]	PK Limit dBuV/m	PK Margin [dB]	Azimuth [Degr]	Height [cm]	Polarity
2412 RU mode 26 Tone offset 0	MIMO	* 2.39	41.21	Pk	31.70	-19.60	0.00	53.31	-	-	74.00	-20.69	123	147	H
		* 2.38217	43.90	Pk	31.70	-19.50	0.00	56.10	-	-	74.00	-17.90	123	147	H
		* 2.39	30.55	RMS	31.70	-19.60	0.13	42.78	54.00	-11.22	-	-	123	147	H
		* 2.38194	31.39	RMS	31.70	-19.50	0.13	43.72	54.00	-10.28	-	-	123	147	H
		* 2.39	39.83	Pk	31.70	-19.60	0.00	51.93	-	-	74.00	-22.07	201	398	V
		* 2.3502	43.97	Pk	31.60	-19.60	0.00	55.97	-	-	74.00	-18.03	201	398	V
		* 2.39	30.88	RMS	31.70	-19.60	0.13	43.11	54.00	-10.89	-	-	201	398	V
		* 2.38924	31.52	RMS	31.70	-19.60	0.13	43.75	54.00	-10.25	-	-	201	398	V
2412 SU mode	MIMO	* 2.39	48.14	Pk	31.90	-19.60	0.00	60.24	-	-	74.00	-13.76	123	100	H
		* 2.38832	50.25	Pk	31.70	-19.50	0.00	62.45	-	-	74.00	-11.55	123	100	H
		* 2.39	34.45	RMS	31.70	-19.60	0.19	46.74	54.00	-7.26	-	-	123	100	H
		* 2.38998	35.24	RMS	31.70	-19.60	0.19	47.53	54.00	-6.47	-	-	123	100	H
		* 2.39	42.30	Pk	31.70	-19.60	0.00	54.40	-	-	74.00	-19.60	187	345	V
		* 2.3897	45.62	Pk	31.70	-19.60	0.00	57.72	-	-	74.00	-16.28	187	345	V
		* 2.39	32.21	RMS	31.70	-19.60	0.19	44.50	54.00	-9.50	-	-	187	345	V
		* 2.38992	32.70	RMS	31.70	-19.60	0.19	44.99	54.00	-9.01	-	-	187	345	V
2457 SU mode	MIMO	* 2.48351	52.72	Pk	31.90	-19.30	0.00	65.32	-	-	74.00	-8.68	174	145	H
		* 2.48439	57.63	Pk	31.90	-19.30	0.00	70.23	-	-	74.00	-3.77	174	145	H
		* 2.48351	38.41	RMS	31.90	-19.30	0.19	51.20	54.00	-2.80	-	-	174	145	H
		* 2.4841	38.92	RMS	31.90	-19.30	0.19	51.71	54.00	-2.29	-	-	174	145	H
		* 2.48351	50.67	Pk	31.90	-19.30	0.00	63.27	-	-	74.00	-10.73	183	294	V
		* 2.48529	55.52	Pk	31.90	-19.30	0.00	68.12	-	-	74.00	-5.88	183	294	V
		* 2.48351	34.72	RMS	31.90	-19.30	0.19	47.51	54.00	-6.49	-	-	183	294	V
		* 2.48364	35.90	RMS	31.90	-19.30	0.19	48.69	54.00	-5.31	-	-	183	294	V
2462 RU mode 26 Tone offset 8	MIMO	* 2.48351	43.33	Pk	31.90	-19.30	0.00	55.93	-	-	74.00	-18.07	119	116	H
		* 2.48652	45.94	Pk	31.90	-19.30	0.00	58.54	-	-	74.00	-15.46	119	116	H
		* 2.48351	31.32	RMS	31.90	-19.30	0.13	44.05	54.00	-9.95	-	-	119	116	H
		* 2.48458	32.01	RMS	31.90	-19.30	0.13	44.74	54.00	-9.26	-	-	119	116	H
		* 2.48351	41.80	Pk	31.90	-19.30	0.00	54.40	-	-	74.00	-19.60	180	375	V
		* 2.4882	44.91	Pk	31.90	-19.40	0.00	57.41	-	-	74.00	-16.59	180	375	V
		* 2.48351	31.41	RMS	31.90	-19.30	0.13	44.14	54.00	-9.86	-	-	180	375	V
		* 2.48495	31.94	RMS	31.90	-19.30	0.13	44.67	54.00	-9.33	-	-	180	375	V
2462 SU mode	MIMO	* 2.48351	49.65	Pk	31.90	-19.30	0.00	62.25	-	-	74.00	-11.75	171	169	H
		* 2.48655	57.14	Pk	31.90	-19.30	0.00	69.74	-	-	74.00	-4.26	171	169	H
		* 2.48351	37.68	RMS	31.90	-19.30	0.19	50.47	54.00	-3.53	-	-	171	169	H
		* 2.48404	38.17	RMS	31.90	-19.30	0.19	50.96	54.00	-3.04	-	-	171	169	H
		* 2.48351	48.63	Pk	31.90	-19.30	0.00	61.23	-	-	74.00	-12.77	204	376	V
		* 2.48437	56.33	Pk	31.90	-19.30	0.00	68.93	-	-	74.00	-5.07	204	376	V
		* 2.48351	36.12	RMS	31.90	-19.30	0.19	48.91	54.00	-5.09	-	-	204	376	V
		* 2.48379	36.64	RMS	31.90	-19.30	0.19	49.43	54.00	-4.57	-	-	204	376	V
2467 RU mode 26 Tone offset 8	MIMO	* 2.48351	58.26	Pk	31.90	-19.30	0.00	70.86	-	-	74.00	-3.14	159	211	H
		* 2.48418	57.63	Pk	31.90	-19.30	0.00	70.23	-	-	74.00	-3.77	159	211	H
		* 2.48351	33.48	RMS	31.90	-19.30	0.13	46.21	54.00	-7.79	-	-	159	211	H
		* 2.48374	35.75	RMS	31.90	-19.30	0.13	48.48	54.00	-5.52	-	-	159	211	H
		* 2.48351	54.02	Pk	31.90	-19.30	0.00	66.62	-	-	74.00	-7.38	203	371	V
		* 2.48386	57.63	Pk	31.90	-19.30	0.00	70.23	-	-	74.00	-3.77	203	371	V
		* 2.48351	34.30	RMS	31.90	-19.30	0.13	47.03	54.00	-6.97	-	-	203	371	V
		* 2.48355	34.88	RMS	31.90	-19.30	0.13	47.61	54.00	-6.39	-	-	203	371	V
2467 SU mode	MIMO	* 2.48351	53.44	Pk	31.90	-19.30	0.00	66.04	-	-	74.00	-7.96	121	181	H
		* 2.48464	58.83	Pk	31.90	-19.30	0.00	71.43	-	-	74.00	-2.57	121	181	H
		* 2.48351	34.35	RMS	31.90	-19.30	0.19	47.14	54.00	-6.86	-	-	121	181	H
		* 2.48521	36.18	RMS	31.90	-19.30	0.19	48.97	54.00	-5.03	-	-	121	181	H
		* 2.48351	53.74	Pk	31.90	-19.30	0.00	66.34	-	-	74.00	-7.66	209	330	V
		* 2.48413	58.38	Pk	31.90	-19.30	0.00	70.98	-	-	74.00	-3.02	209	330	V
		* 2.48351	34.47	RMS	31.90	-19.30	0.19	47.26	54.00	-6.74	-	-	209	330	V
		* 2.48378	35.30	RMS	31.90	-19.30	0.19	48.09	54.00	-5.91	-	-	209	330	V
2472 RU mode 26 Tone offset 8	MIMO	* 2.48351	59.09	Pk	31.90	-19.30	0.00	71.69	-	-	74.00	-2.31	163	211	H
		* 2.48388	58.38	Pk	31.90	-19.30	0.00	70.98	-	-	74.00	-3.02	163	211	H
		* 2.48351	34.55	RMS	31.90	-19.30	0.13	47.28	54.00	-6.72	-	-	163	211	H
		* 2.4837	35.97	RMS	31.90	-19.30	0.13	48.70	54.00	-5.30	-	-	163	211	H
		* 2.48351	53.19	Pk	31.90	-19.30	0.00	65.79	-	-	74.00	-8.21	207	370	V
		* 2.48383	57.17	Pk	31.90	-19.30	0.00	69.77	-	-	74.00	-4.23	207	370	V
		* 2.48351	33.03	RMS	31.90	-19.30	0.13	45.76	54.00	-8.24	-	-	207	370	V
		* 2.48359	34.65	RMS	31.90	-19.30	0.13	47.38	54.00	-6.62	-	-	207	370	V
2472 SU mode	MIMO	* 2.48351	54.50	Pk	31.90	-19.30	0.00	67.10	-	-	74.00	-6.90	166	187	H
		* 2.48356	58.81	Pk	31.90	-19.30	0.00	71.41	-	-	74.00	-2.59	166	187	H
		* 2.48351	34.78	RMS	31.90	-19.30	0.19	47.57	54.00	-6.43	-	-	166	187	H
		* 2.48359	36.97	RMS	31.90	-19.30	0.19	49.76	54.00	-4.24	-	-	166	187	H
		* 2.48351	54.09	Pk	31.90	-19.30	0.00	66.69	-	-	74.00	-7.31	207	370	V
		* 2.48352	57.24	Pk	31.90	-19.30	0.00	69.84	-	-	74.00	-4.16	207	370	V
		* 2.48351	34.18	RMS	31.90	-19.30	0.19	46.97	54.00	-7.03	-	-	207	370	V
		* 2.48366	36.10	RMS	31.90	-19.30	0.19	48.89	54.00	-5.11	-	-	207	370	V

Note1. Pk - Peak detector, RMS - RMS detector

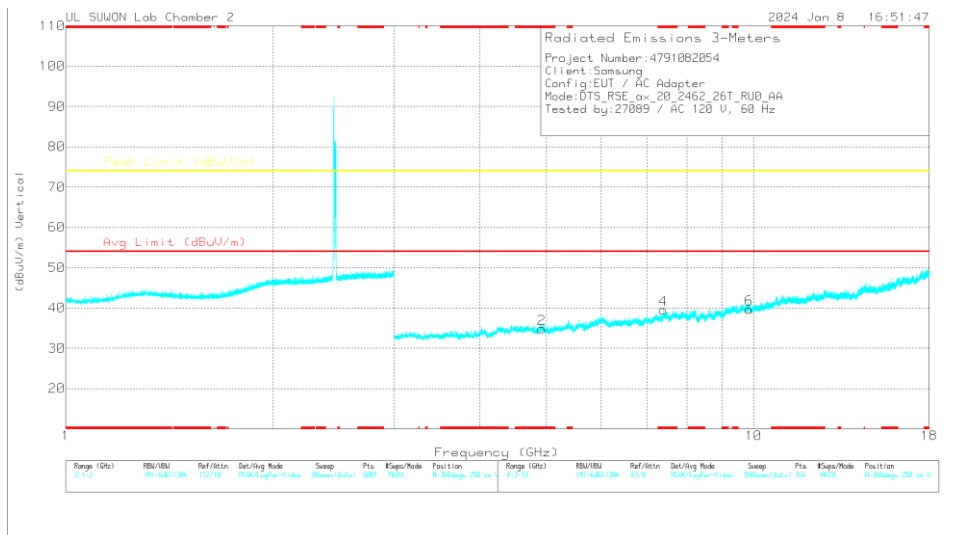
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 11 CHANNEL, 0RU)

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	Antenna Correction Factor (dB/m)	Loss (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
* 4.92292	36.49	PK2	34	-26.2	0	44.29	-	-	74	-29.71	0	100	H
* 4.92274	36.65	PK2	34	-26.2	0	44.45	-	-	74	-29.55	0	100	V
* 7.38941	34.68	PK2	35.7	-22.9	0	47.48	-	-	74	-26.52	0	100	H
* 7.39173	36.41	PK2	35.7	-22.9	0	49.21	-	-	74	-24.79	360	382	V
* 7.38862	22.72	MAV1	35.7	-22.9	.13	35.65	54	-18.35	-	-	360	382	V
9.84885	32.35	PK2	37.2	-21	0	48.55	-	-	74	-25.45	0	100	H
9.84702	32.24	PK2	37.2	-21	0	48.44	-	-	74	-25.56	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

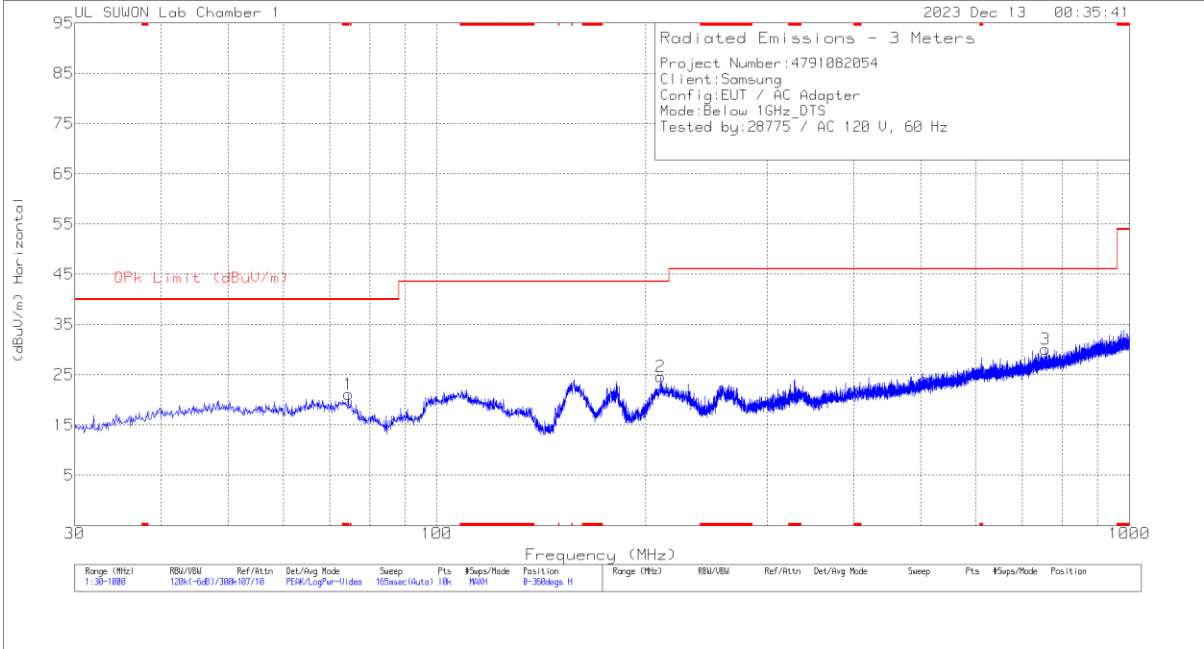
HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	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
2417 RU mode 26 Tone offset 0	MIMO	* 4.83102	36.09	PK2	34.00	-26.90	0.00	43.19	-	-	74.00	-30.81	0	100	H
		* 4.83308	36.56	PK2	34.00	-26.90	0.00	43.66	-	-	74.00	-30.34	0	100	V
		* 7.202	35.48	PK2	35.70	-24.20	0.00	46.98	-	-	74.00	-27.02	0	100	H
		* 7.25692	35.01	PK2	35.70	-24.50	0.00	46.21	-	-	74.00	-27.79	0	100	V
		9.659	32.33	PK2	37.00	-20.70	0.00	48.63	-	-	74.00	-25.37	0	100	H
		9.662	32.41	PK2	37.00	-20.70	0.00	48.71	-	-	74.00	-25.29	0	100	V
2437 RU mode 26 Tone offset 8	MIMO	* 4.8797	36.11	PK2	34.00	-26.70	0.00	43.41	-	-	74.00	-30.59	0	100	H
		* 4.87594	36.11	PK2	34.00	-26.70	0.00	43.41	-	-	74.00	-30.59	0	100	V
		* 7.31259	34.81	PK2	35.70	-23.90	0.00	46.61	-	-	74.00	-27.39	0	100	H
		* 7.31088	34.73	PK2	35.70	-23.90	0.00	46.53	-	-	74.00	-27.47	0	100	V
		9.740	32.69	PK2	37.10	-20.60	0.00	49.19	-	-	74.00	-24.81	0	100	H
		9.750	32.75	PK2	37.10	-20.70	0.00	49.15	-	-	74.00	-24.85	0	100	V
2462 RU mode 26 Tone offset 0	MIMO	* 4.92292	36.49	PK2	34.00	-26.20	0.00	44.29	-	-	74.00	-29.71	0	100	H
		* 4.92274	36.65	PK2	34.00	-26.20	0.00	44.45	-	-	74.00	-29.55	0	100	V
		* 7.35941	34.68	PK2	35.70	-22.90	0.00	47.48	-	-	74.00	-26.52	0	100	H
		* 7.39173	36.41	PK2	35.70	-22.90	0.00	49.21	-	-	74.00	-24.79	360	382	V
		* 7.38862	22.72	MAv1	35.70	-22.90	0.13	35.65	54.00	-18.35	-	-	360	382	V
		9.849	32.35	PK2	37.20	-21.00	0.00	48.55	-	-	74.00	-25.45	0	100	H
		9.847	32.24	PK2	37.20	-21.00	0.00	48.44	-	-	74.00	-25.56	0	100	V

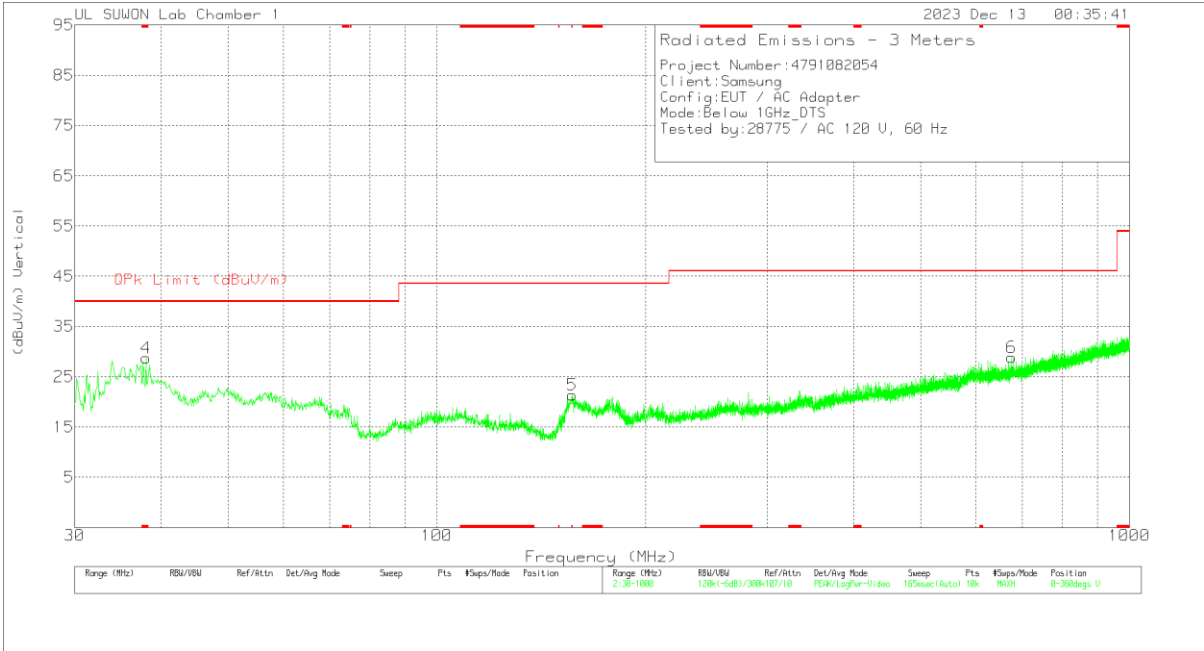
Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

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

10.2. WORST CASE BELOW 1 GHZ



HORIZONTAL



VERTICAL

Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenn Correction Factor(dB)	Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 74.523	38.5	Pk	13.2	-30.6	0	21.1	40	-18.9	0-360	200	H
2	210.614	37.47	Pk	16.3	-29.2	0	24.57	43.52	-18.95	0-360	100	H
3	755.851	30.92	Pk	25.7	-26.5	0	30.12	46.02	-15.9	0-360	100	H
4	* 38.051	42.09	Pk	17.7	-31.1	0	28.69	40	-11.31	0-360	200	V
5	* 156.779	36.89	Pk	14.1	-29.6	0	21.39	43.52	-22.13	0-360	200	V
6	676.117	31.19	Pk	24.5	-26.8	0	28.89	46.02	-17.13	0-360	300	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.

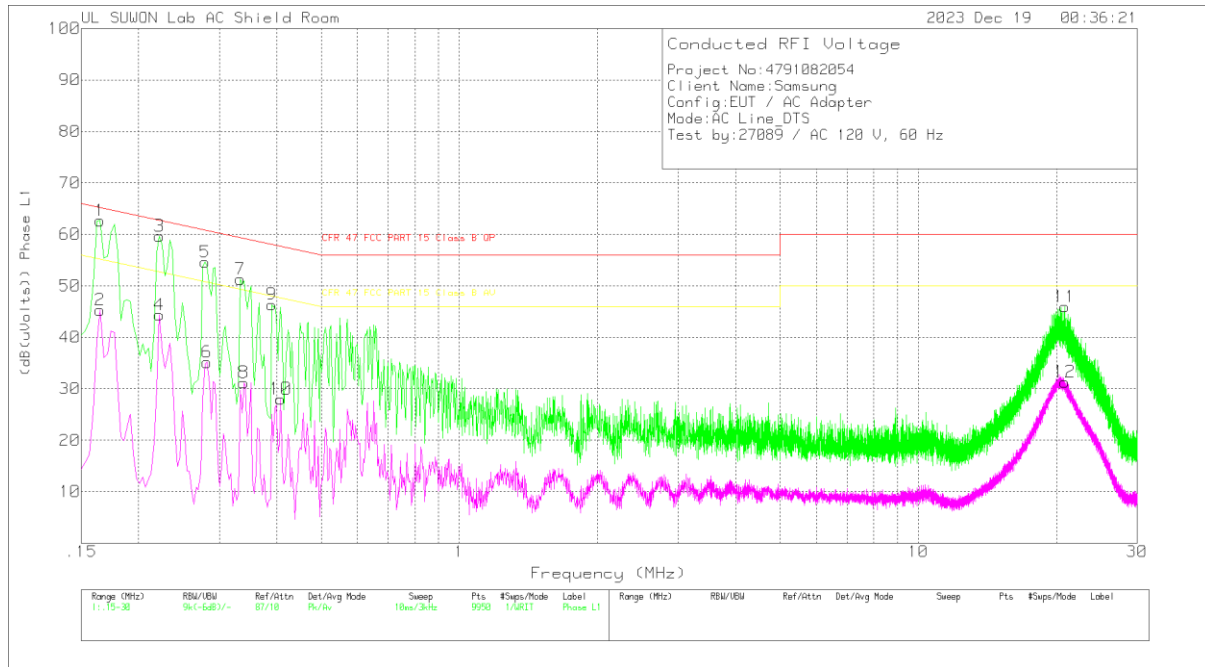
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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_AU TO_With EX_L1[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP (dB(uVolts))	Margin (dB)	CFR 47 FCC PART 15 Class B AV (dB(uVolts))	Margin (dB)
1	.165	53.06	Pk	9.5	.1	62.66	65.21	-2.55	-	-
2	.165	35.69	Av	9.5	.1	45.29	-	-	55.21	-9.92
3	.222	49.95	Pk	9.5	.2	59.65	62.74	-3.09	-	-
4	.222	34.63	Av	9.5	.2	44.33	-	-	52.74	-8.41
5	.279	44.91	Pk	9.5	.2	54.61	60.85	-6.24	-	-
6	.282	25.44	Av	9.5	.2	35.14	-	-	50.76	-15.62
7	.333	41.59	Pk	9.5	.2	51.29	59.38	-8.09	-	-
8	.339	21.49	Av	9.5	.2	31.19	-	-	49.23	-18.04
9	.39	36.67	Pk	9.5	.2	46.37	58.06	-11.69	-	-
10	.408	18.29	Av	9.5	.2	27.99	-	-	47.69	-19.7
11	20.874	35.95	Pk	9.6	.4	45.95	60	-14.05	-	-
12	20.874	21.31	Av	9.6	.4	31.31	-	-	50	-18.69

Pk - Peak detector

Av - Average detection

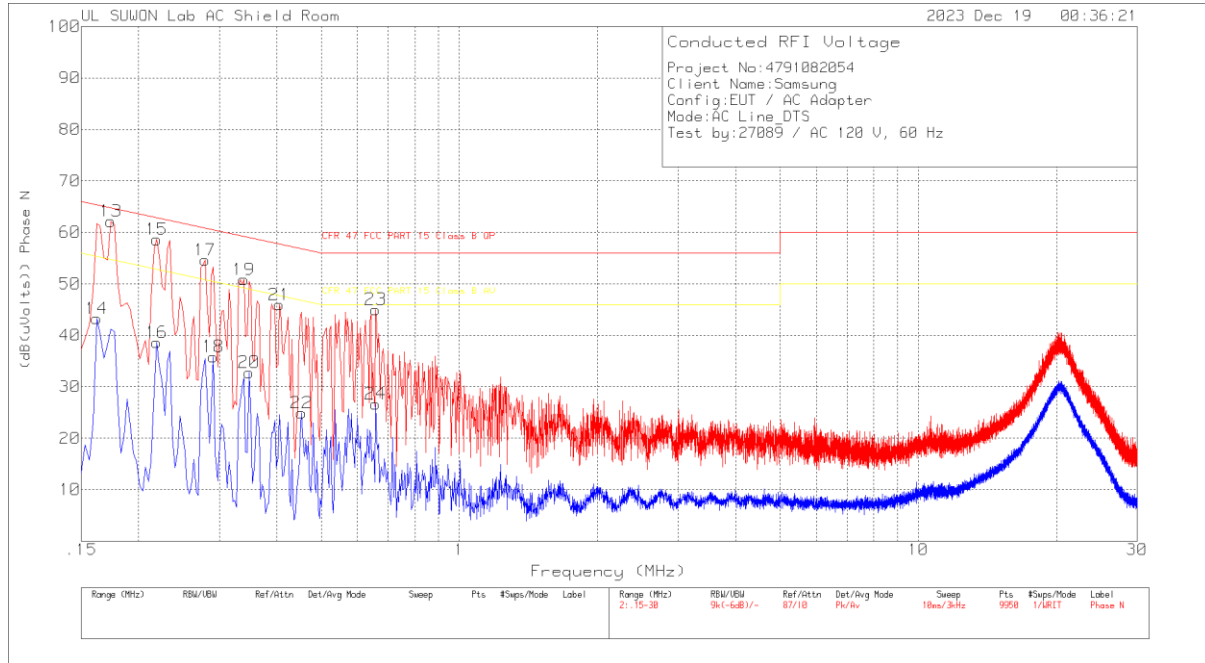
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_L1[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP (dB(uVolts))	Margin (dB)	CFR 47 FCC PART 15 Class B AV (dB(uVolts))	Margin (dB)
.16575	49.39	Qp	9.5	.1	58.99	65.17	-6.18	-	-
.22275	45.31	Qp	9.5	.2	55.01	62.72	-7.71	-	-
.27825	40.58	Qp	9.5	.2	50.28	60.87	-10.59	-	-
.33225	36.64	Qp	9.5	.2	46.34	59.39	-13.05	-	-

QP- Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_N[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP (dB(uVolts))	Margin (dB)	CFR 47 FCC PART 15 Class B AV (dB(uVolts))	Margin (dB)
13	.174	52.45	Pk	9.5	.2	62.15	64.77	-2.62	-	-
14	.162	33.64	Av	9.5	.1	43.24	-	-	55.36	-12.12
15	.219	48.91	Pk	9.5	.2	58.61	62.86	-4.25	-	-
16	.219	28.89	Av	9.5	.2	38.59	-	-	52.86	-14.27
17	.279	44.92	Pk	9.5	.2	54.62	60.85	-6.23	-	-
18	.291	26.12	Av	9.5	.2	35.82	-	-	50.5	-14.68
19	.339	41.11	Pk	9.5	.2	50.81	59.23	-8.42	-	-
20	.348	23.08	Av	9.5	.2	32.78	-	-	49.01	-16.23
21	.405	36.24	Pk	9.5	.2	45.94	57.75	-11.81	-	-
22	.453	15.19	Av	9.5	.2	24.89	-	-	46.82	-21.93
23	.657	35.2	Pk	9.6	.2	45	56	-11	-	-
24	.657	16.87	Av	9.6	.2	26.67	-	-	46	-19.33

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_N[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP (dB(uVolts))	Margin (dB)	CFR 47 FCC PART 15 Class B AV (dB(uVolts))	Margin (dB)
.17325	49.54	Qp	9.5	.2	59.24	64.8	-5.56	-	-
.21975	44.53	Qp	9.5	.2	54.23	62.83	-8.6	-	-
.27915	40.14	Qp	9.5	.2	49.84	60.84	-11	-	-
.33975	35.93	Qp	9.5	.2	45.63	59.21	-13.58	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT