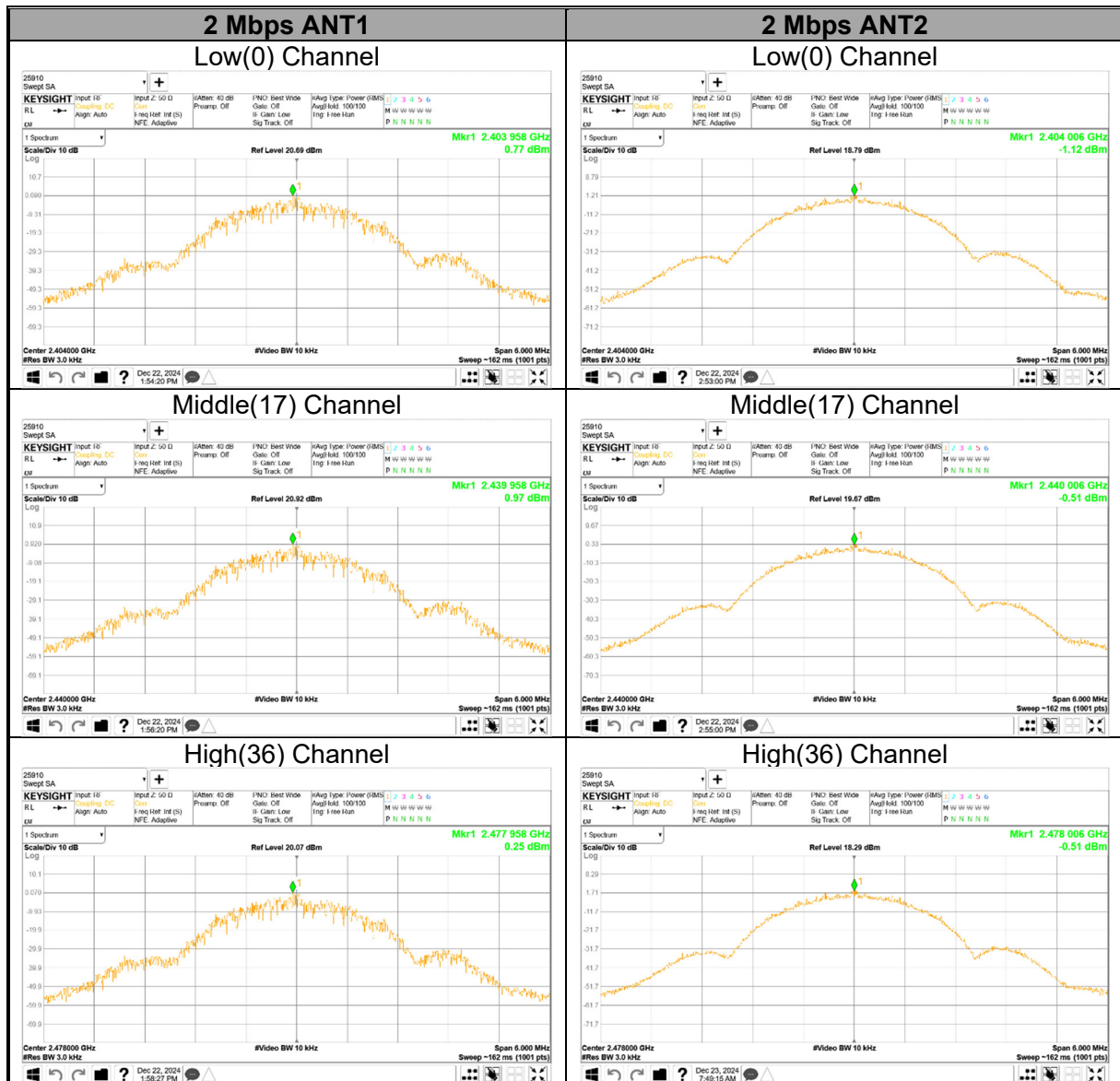




9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

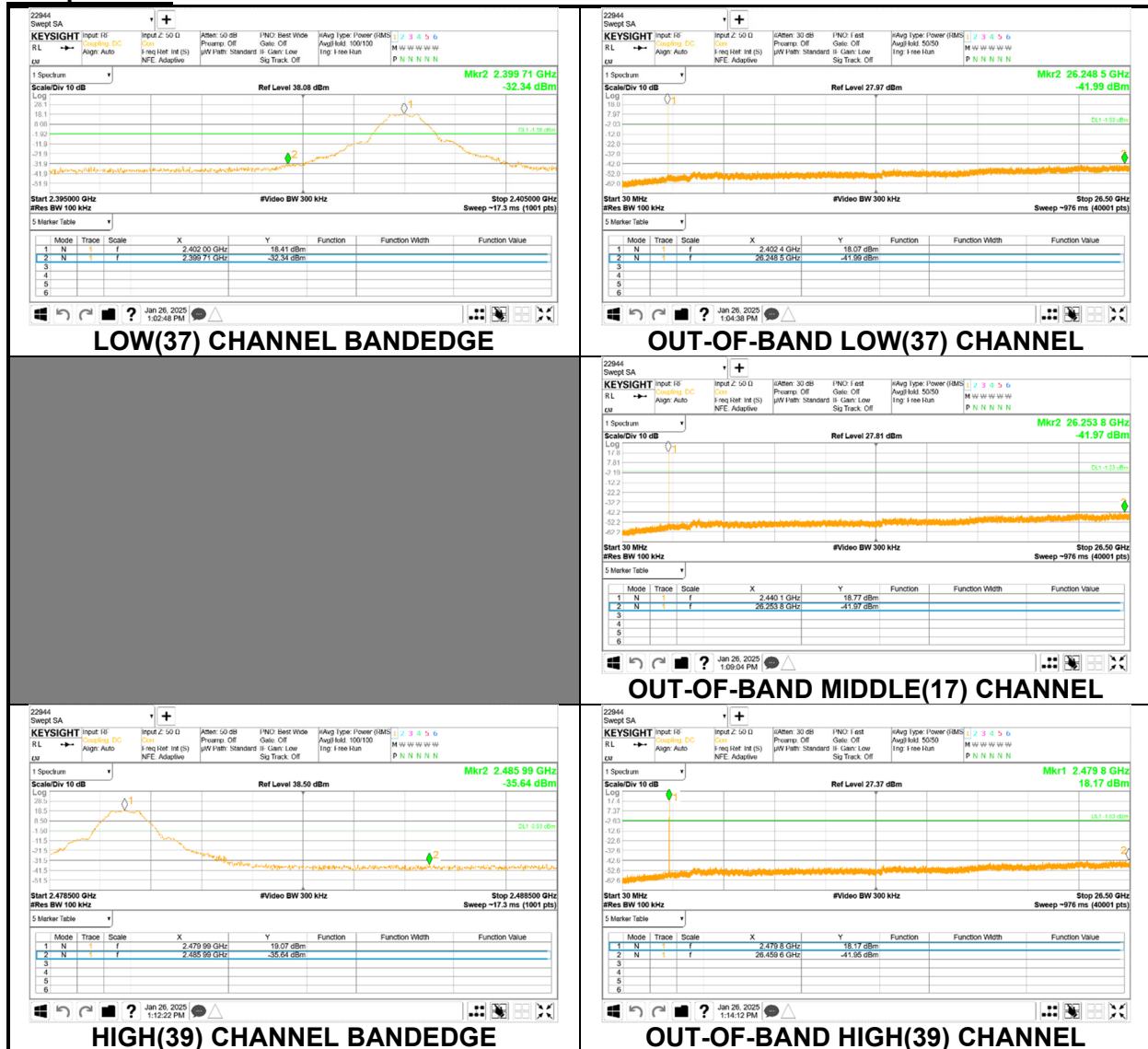
FCC §15.247 (d)

Output power was measured based on the use of a peak measurement.
Therefore, spurious emissions are required to be 20 dBc.

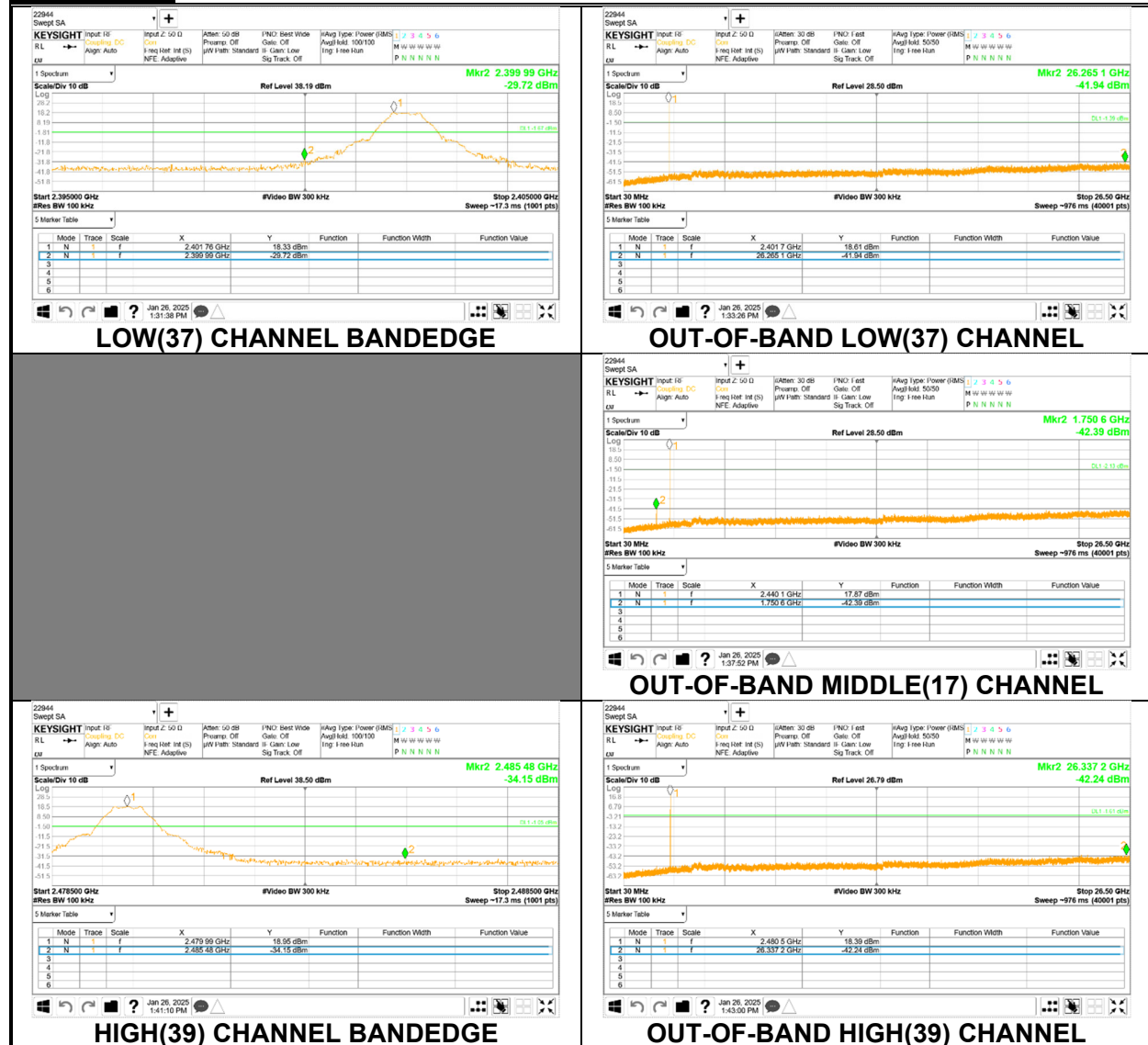
RESULTS

9.6.1. Test plot

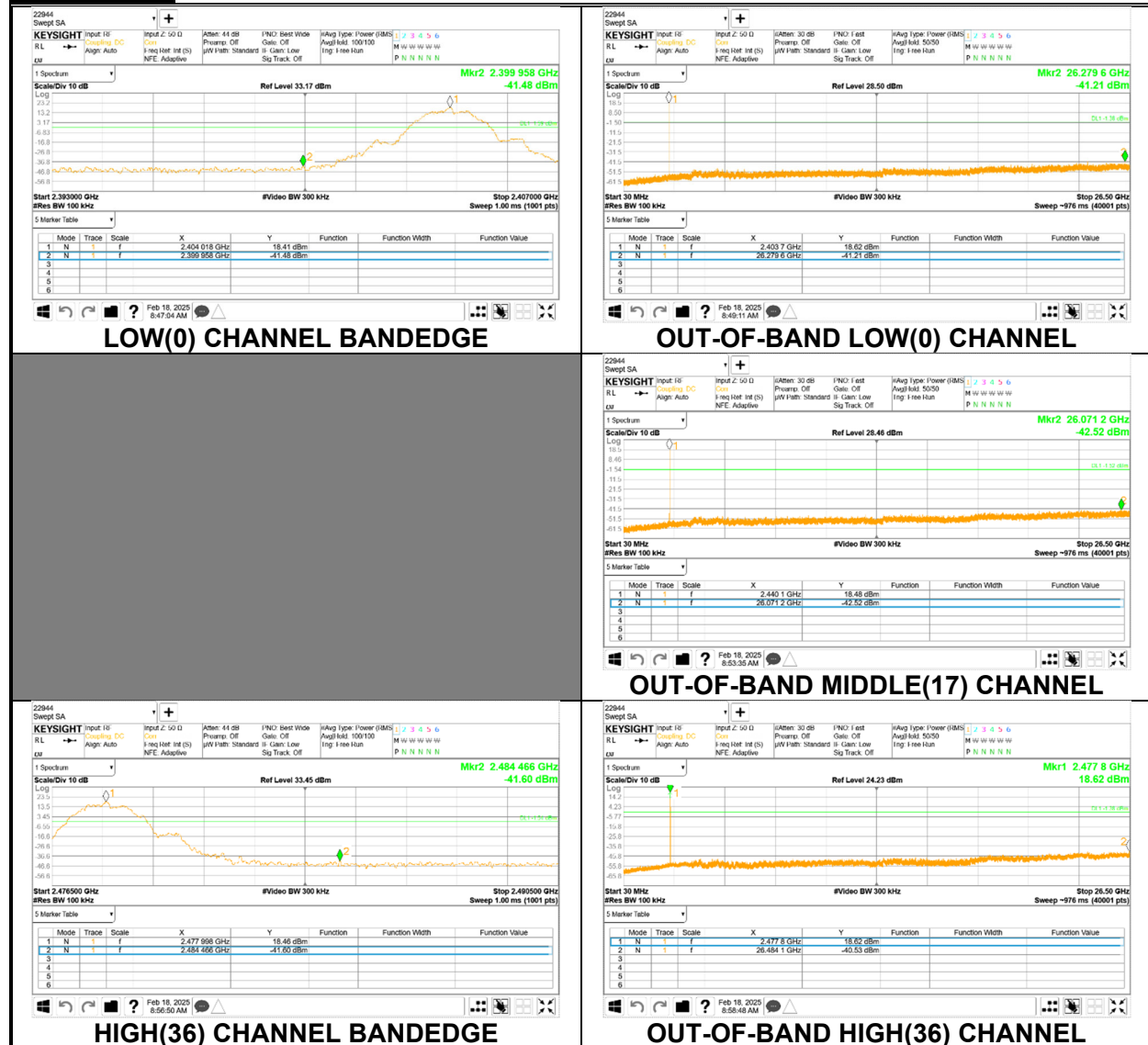
1 Mbps ANT1



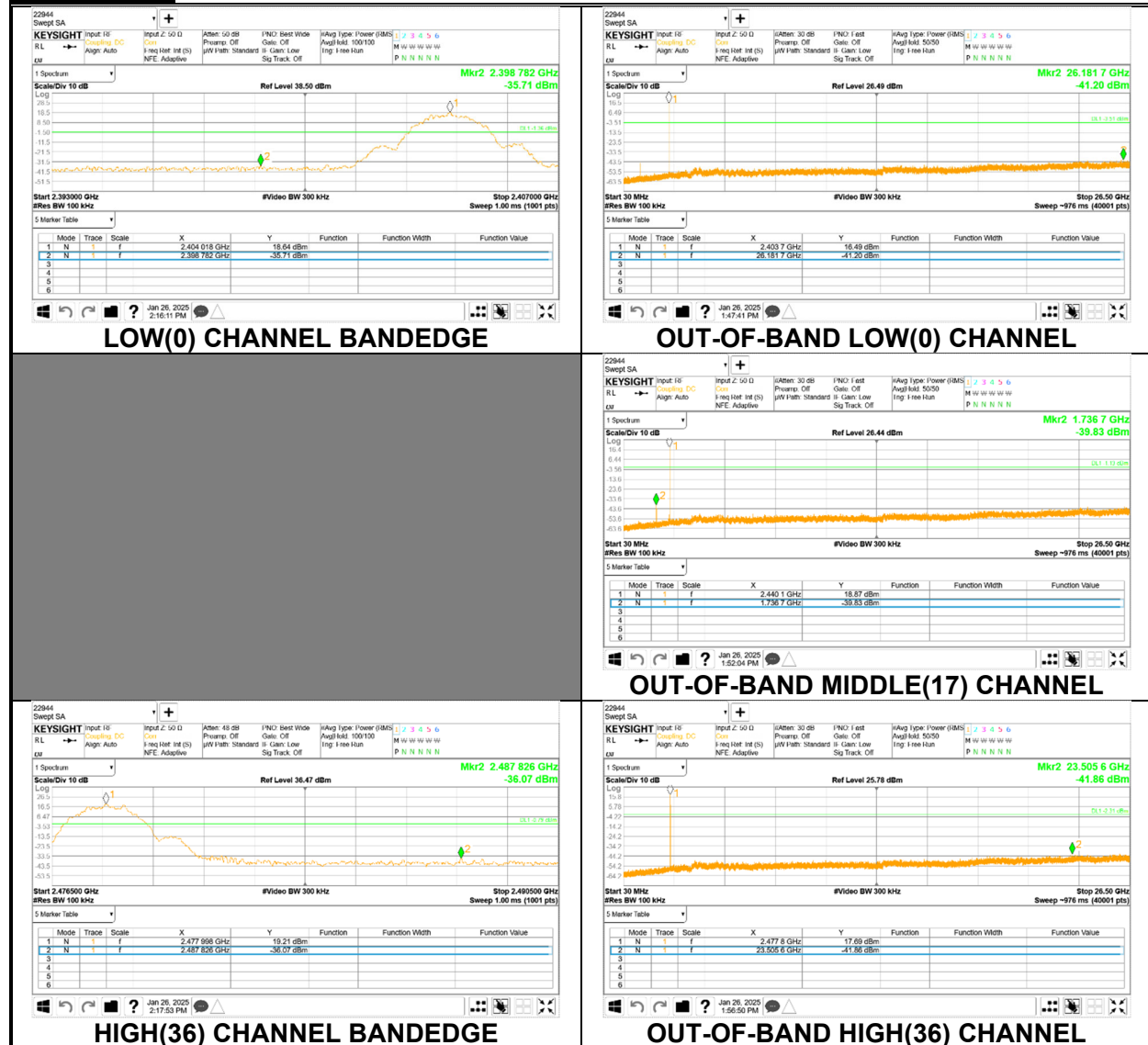
1 Mbps ANT2



2 Mbps ANT1



2 Mbps ANT2



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. 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, then the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted band-edge, Final detection of spurious harmonic emissions)
Duty cycle factor = $10 \log (1/x)$. For this sample:

Mode	Duty cycle x [Linear]	Duty Cycle Correction Factor [dB]	Antenna
1 Mbps [37pkt]	0.520	2.84	Antenna 1 and 2
1 Mbps [255pkt]	0.854	0.68	Dual mode
2 Mbps [37pkt]	0.391	4.08	Antenna 1
2 Mbps [255pkt]	0.768	1.14	Antenna 2 and Dual mode

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 the 2.4 GHz 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.

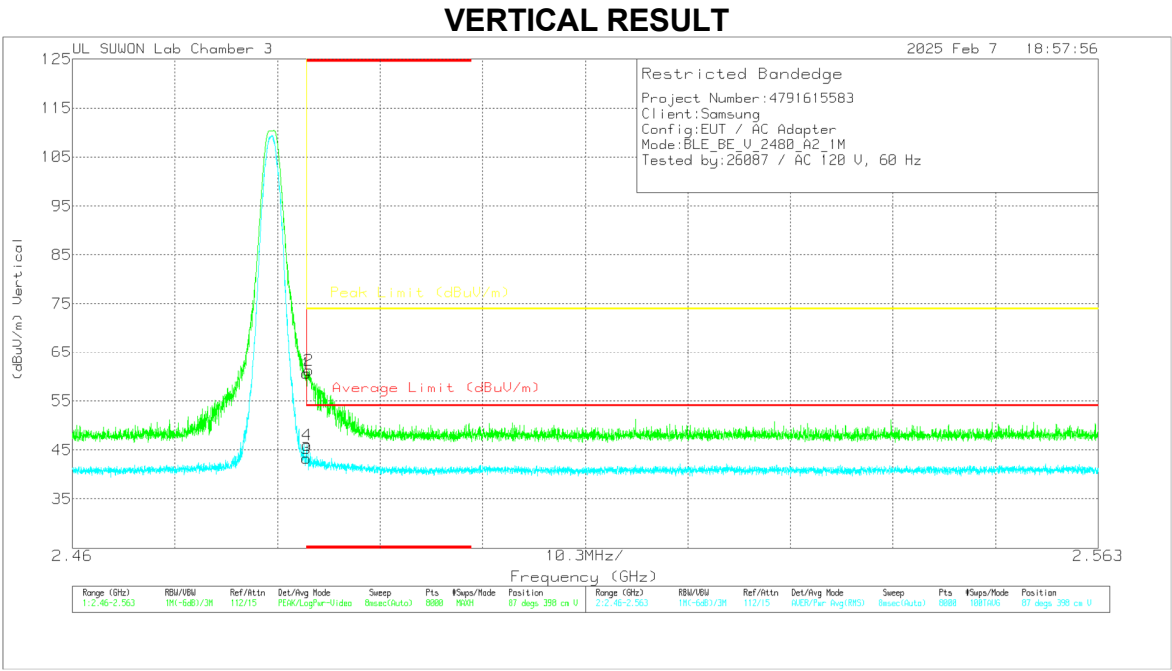
Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field 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.

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz BLUETOOTH LE 1 Mbps

BANDEDGE (WORST CASE: 2480 MHz, ANT2)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna S21 Factor (dBm)	10dB_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.4835	53.08	Pk	32.4	-24.9	0	60.58	-	-	74	-13.42	87	398	V
2	* 2.48376	53.72	Pk	32.4	-24.9	0	61.22	-	-	74	-12.78	87	398	V
3	* 2.4835	32.94	RMS	32.4	-24.9	2.84	43.28	54	-10.72	-	-	87	398	V
4	* 2.48355	35.62	RMS	32.4	-24.9	2.84	45.96	54	-8.04	-	-	87	398	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

BANDEDGE TEST DATA

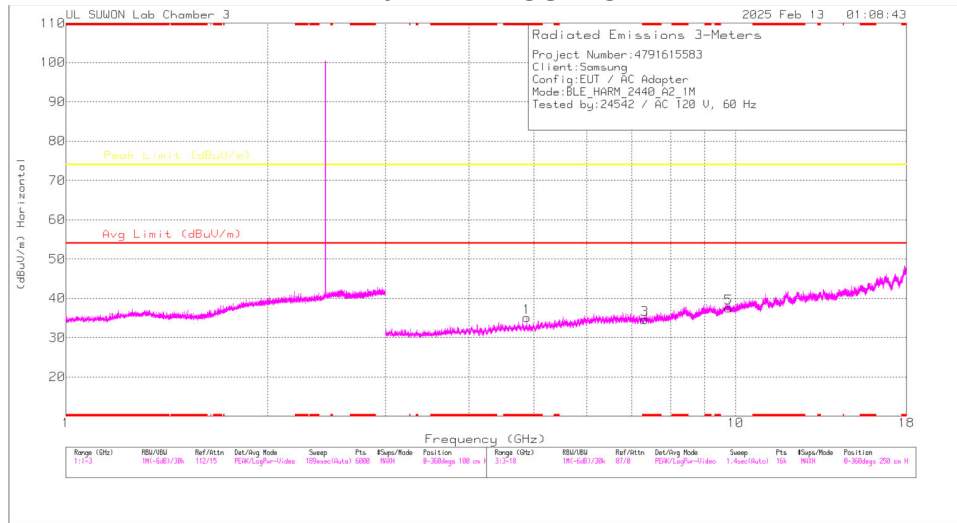
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	40.88	Pk	32.10	-24.90	0.00	48.08	-	-	74.00	-25.92	125	103	H
		* 2.31648	43.02	Pk	31.90	-25.00	0.00	49.92	-	-	74.00	-24.08	125	103	H
		* 2.39	30.44	RMS	32.10	-24.90	2.84	40.48	54.00	-13.52	-	-	125	103	H
		* 2.35497	31.56	RMS	32.00	-25.00	2.84	41.40	54.00	-12.60	-	-	125	103	H
		* 2.39	40.14	Pk	32.10	-24.90	0.00	47.34	-	-	74.00	-26.66	204	387	V
		* 2.36824	42.64	Pk	32.00	-25.00	0.00	49.64	-	-	74.00	-24.36	204	387	V
		* 2.39	30.25	RMS	32.10	-24.90	2.84	40.29	54.00	-13.71	-	-	204	387	V
		* 2.32788	31.66	RMS	31.90	-25.00	2.84	41.40	54.00	-12.60	-	-	204	387	V
2480	ANT1	* 2.4835	50.99	Pk	32.40	-24.90	0.00	58.49	-	-	74.00	-15.51	131	159	H
		* 2.48367	53.19	Pk	32.40	-24.90	0.00	60.69	-	-	74.00	-13.31	131	159	H
		* 2.4835	33.34	RMS	32.40	-24.90	2.84	43.68	54.00	-10.32	-	-	131	159	H
		* 2.48367	34.72	RMS	32.40	-24.90	2.84	45.06	54.00	-8.94	-	-	131	159	H
		* 2.4835	51.54	Pk	32.40	-24.90	0.00	59.04	-	-	74.00	-14.96	199	400	V
		* 2.48356	50.64	Pk	32.40	-24.90	0.00	58.14	-	-	74.00	-15.86	199	400	V
		* 2.4835	33.32	RMS	32.40	-24.90	2.84	43.66	54.00	-10.34	-	-	199	400	V
		* 2.48356	33.96	RMS	32.40	-24.90	2.84	44.30	54.00	-9.70	-	-	199	400	V
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
2402	ANT2	* 2.39	40.03	Pk	32.10	-24.90	0.00	47.23	-	-	74.00	-26.77	23	388	H
		* 2.37665	43.03	Pk	32.10	-25.00	0.00	50.13	-	-	74.00	-23.87	23	388	H
		* 2.39	29.82	RMS	32.10	-24.90	2.84	39.86	54.00	-14.14	-	-	23	388	H
		* 2.3891	31.55	RMS	32.10	-25.00	2.84	41.49	54.00	-12.51	-	-	23	388	H
		* 2.39	39.69	Pk	32.10	-24.90	0.00	46.89	-	-	74.00	-27.11	97	296	V
		* 2.3574	42.96	Pk	32.00	-25.10	0.00	49.86	-	-	74.00	-24.14	97	296	V
		* 2.39	29.87	RMS	32.10	-24.90	2.84	39.91	54.00	-14.09	-	-	97	296	V
		* 2.37713	31.53	RMS	32.10	-25.00	2.84	41.47	54.00	-12.53	-	-	97	296	V
2480	ANT2	* 2.4835	44.43	Pk	32.40	-24.80	0.00	52.03	-	-	74.00	-21.97	155	376	H
		* 2.48354	48.90	Pk	32.40	-24.80	0.00	56.50	-	-	74.00	-17.50	155	376	H
		* 2.4835	32.71	RMS	32.40	-24.80	0.69	41.00	54.00	-13.00	-	-	155	376	H
		* 2.48369	33.47	RMS	32.40	-24.80	0.69	41.76	54.00	-12.24	-	-	155	376	H
		* 2.4835	53.08	Pk	32.40	-24.90	0.00	60.58	-	-	74.00	-13.42	87	398	V
		* 2.48376	53.72	Pk	32.40	-24.90	0.00	61.22	-	-	74.00	-12.78	87	398	V
		* 2.4835	32.94	RMS	32.40	-24.90	2.84	43.28	54.00	-10.72	-	-	87	398	V
		* 2.48355	35.62	RMS	32.40	-24.90	2.84	45.96	54.00	-8.04	-	-	87	398	V
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
2402	DUAL	* 2.39	40.26	Pk	32.10	-24.90	0.00	47.46	-	-	74.00	-26.54	162	126	H
		* 2.36466	43.06	Pk	32.00	-25.10	0.00	49.96	-	-	74.00	-24.04	162	126	H
		* 2.39	29.52	RMS	32.10	-24.90	0.68	37.40	54.00	-16.60	-	-	162	126	H
		* 2.37545	31.45	RMS	32.10	-25.00	0.68	39.23	54.00	-14.77	-	-	162	126	H
		* 2.39	40.43	Pk	32.10	-24.90	0.00	47.63	-	-	74.00	-26.37	209	385	V
		* 2.34607	43.18	Pk	32.00	-25.00	0.00	50.18	-	-	74.00	-23.82	209	385	V
		* 2.39	30.30	RMS	32.10	-24.90	0.68	38.18	54.00	-15.82	-	-	209	385	V
		* 2.32331	31.67	RMS	31.90	-25.10	0.68	39.15	54.00	-14.85	-	-	209	385	V
2480	DUAL	* 2.4835	48.19	Pk	32.40	-24.90	0.00	55.69	-	-	74.00	-18.31	165	156	H
		* 2.48359	47.11	Pk	32.40	-24.90	0.00	54.61	-	-	74.00	-19.39	165	156	H
		* 2.4835	31.06	RMS	32.40	-24.90	0.68	39.24	54.00	-14.76	-	-	165	156	H
		* 2.48414	31.97	RMS	32.40	-24.90	0.68	40.15	54.00	-13.85	-	-	165	156	H
		* 2.4835	46.78	Pk	32.40	-24.90	0.00	54.28	-	-	74.00	-19.72	204	400	V
		* 2.48358	46.73	Pk	32.40	-24.90	0.00	54.23	-	-	74.00	-19.77	204	400	V
		* 2.4835	31.15	RMS	32.40	-24.90	0.68	39.33	54.00	-14.67	-	-	204	400	V
		* 2.523	31.86	RMS	32.40	-24.80	0.68	40.14	54.00	-13.86	-	-	204	400	V

Note1. Pk - Peak detector, RMS - RMS detector

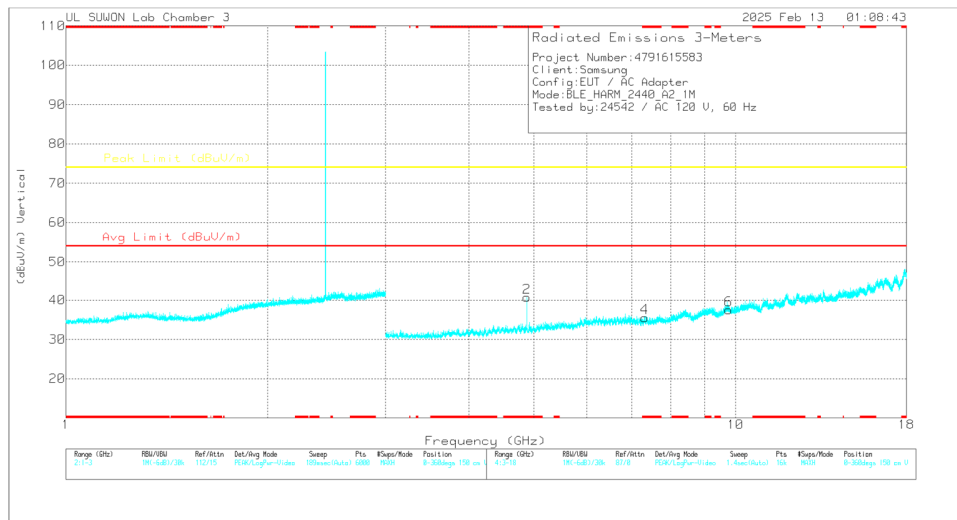
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2440 MHz, ANT2)

2440 MHz 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_957_Factor(dB/m)	3GHz_HP_Pat h 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
* 4.8803	41.53	PK2	34.2	-30.5	0	45.23	-	-	74	-28.77	150	363	H
* 4.87999	30.93	MAV1	34.2	-30.5	2.84	37.47	54	-16.53	-	-	150	363	H
* 4.87971	44.39	PK2	34.2	-30.5	0	48.09	-	-	74	-25.91	263	108	V
* 4.87976	35.79	MAV1	34.2	-30.5	2.84	42.33	54	-11.67	-	-	263	108	V
* 7.31513	35.19	PK2	35.8	-25.2	0	45.79	-	-	74	-28.21	0	100	H
* 7.32088	34.75	PK2	35.8	-25.1	0	45.45	-	-	74	-28.55	298	100	V
* 7.31937	23.65	MAV1	35.8	-25.2	2.84	37.09	54	-16.91	-	-	298	100	V
9.76387	32.02	PK2	36.9	-21.2	0	47.72	-	-	74	-26.28	0	100	H
9.75757	32.24	PK2	36.9	-21.3	0	47.84	-	-	74	-26.16	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

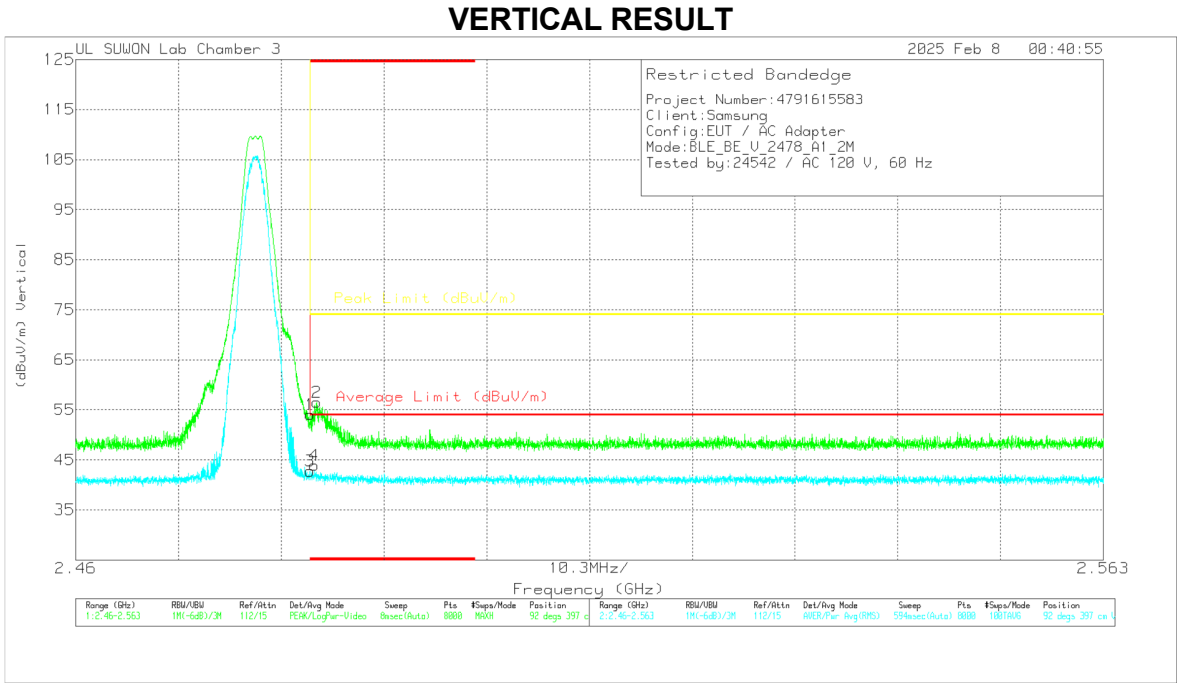
MAV1 - KDB558074 Option 1 Maximum RMS Average

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
2402	ANT1	* 4.8053	25.27	PK2	34.30	-29.80	0.00	29.77	-	-	74.00	-44.23	315	104	H
		* 4.80375	28.67	MAv1	34.30	-29.80	2.84	36.01	54.00	-17.99	-	-	315	104	H
		* 4.80724	38.62	PK2	34.30	-29.80	0.00	43.12	-	-	74.00	-30.88	273	115	V
		* 4.80967	27.10	MAv1	34.30	-29.80	2.84	34.44	54.00	-19.56	-	-	273	115	V
		7.208	34.47	PK2	35.80	-25.70	0.00	44.57	-	-	74.00	-29.43	0	100	H
		7.205	34.85	PK2	35.80	-25.70	0.00	44.95	-	-	74.00	-29.05	138	101	V
		9.612	32.25	PK2	36.70	-21.70	0.00	47.25	-	-	74.00	-26.75	0	100	H
		9.610	31.89	PK2	36.70	-21.70	0.00	46.89	-	-	74.00	-27.11	0	100	V
2440	ANT1	* 4.87979	40.45	PK2	34.20	-30.50	0.00	44.15	-	-	74.00	-29.85	322	150	H
		* 4.88016	29.59	MAv1	34.20	-30.50	2.84	36.13	54.00	-17.87	-	-	322	150	H
		* 4.87986	41.94	PK2	34.20	-30.50	0.00	45.64	-	-	74.00	-28.36	176	345	V
		* 4.87985	32.09	MAv1	34.20	-30.50	2.84	38.63	54.00	-15.37	-	-	176	345	V
		* 7.32032	34.29	PK2	35.80	-25.20	0.00	44.89	-	-	74.00	-29.11	0	100	H
		* 7.32069	34.57	PK2	35.80	-25.10	0.00	45.27	-	-	74.00	-28.73	140	103	V
		* 7.31511	23.32	MAv1	35.80	-25.20	2.84	36.76	54.00	-17.24	-	-	140	103	V
		9.756	32.55	PK2	36.90	-21.30	0.00	48.15	-	-	74.00	-25.85	360	100	H
2480	ANT1	9.761	31.66	PK2	36.90	-21.20	0.00	47.36	-	-	74.00	-26.64	0	100	V
		* 4.96004	40.59	PK2	34.30	-30.40	0.00	44.49	-	-	74.00	-29.51	333	128	H
		* 4.96022	29.97	MAv1	34.30	-30.40	2.84	36.71	54.00	-17.29	-	-	333	128	H
		* 4.95976	42.36	PK2	34.30	-30.40	0.00	46.26	-	-	74.00	-27.74	181	100	V
		* 4.96004	32.35	MAv1	34.30	-30.40	2.84	39.09	54.00	-14.91	-	-	181	100	V
		* 7.43911	34.88	PK2	35.70	-25.00	0.00	45.58	-	-	74.00	-28.42	144	103	H
		* 7.43947	22.93	MAv1	35.70	-25.00	2.84	36.47	54.00	-17.53	-	-	144	103	H
		* 7.43924	35.05	PK2	35.70	-25.00	0.00	45.75	-	-	74.00	-28.25	151	101	V
2402	ANT2	* 7.43922	23.66	MAv1	35.70	-25.00	2.84	37.20	54.00	-16.80	-	-	151	101	V
		9.917	32.26	PK2	37.10	-21.30	0.00	48.06	-	-	74.00	-25.94	0	100	H
		9.915	31.41	PK2	37.10	-21.30	0.00	47.21	-	-	74.00	-26.79	0	100	V
		* 4.80351	40.10	PK2	34.30	-29.80	0.00	44.60	-	-	74.00	-29.40	48	103	H
		* 4.80414	29.84	MAv1	34.30	-29.80	2.84	37.18	54.00	-16.82	-	-	48	103	H
		* 4.80453	44.25	PK2	34.30	-29.80	0.00	48.75	-	-	74.00	-25.25	253	104	V
		* 4.80365	34.63	MAv1	34.30	-29.80	2.84	41.97	54.00	-12.03	-	-	253	104	V
		7.202	34.92	PK2	35.80	-25.70	0.00	45.02	-	-	74.00	-28.98	56	100	H
2440	ANT2	7.205	35.49	PK2	35.80	-25.70	0.00	45.59	-	-	74.00	-28.41	278	100	V
		9.605	31.68	PK2	36.70	-21.70	0.00	46.68	-	-	74.00	-27.32	0	100	H
		9.605	31.93	PK2	36.70	-21.70	0.00	46.93	-	-	74.00	-27.07	0	100	V
		* 4.8803	41.53	PK2	34.20	-30.50	0.00	45.23	-	-	74.00	-28.77	150	363	H
		* 4.87999	30.93	MAv1	34.20	-30.50	2.84	37.47	54.00	-16.53	-	-	150	363	H
		* 4.87971	44.39	PK2	34.20	-30.50	0.00	48.09	-	-	74.00	-25.91	263	108	V
		* 4.87976	35.79	MAv1	34.20	-30.50	2.84	42.33	54.00	-11.67	-	-	263	108	V
		* 7.31513	35.19	PK2	35.80	-25.20	0.00	45.79	-	-	74.00	-28.21	0	100	H
2480	ANT2	* 7.32088	34.75	PK2	35.80	-25.10	0.00	45.45	-	-	74.00	-28.55	298	100	V
		* 7.31937	23.65	MAv1	35.80	-25.20	2.84	37.09	54.00	-16.91	-	-	298	100	V
		9.764	32.02	PK2	36.90	-21.20	0.00	47.72	-	-	74.00	-26.28	0	100	H
		9.758	32.24	PK2	36.90	-21.30	0.00	47.84	-	-	74.00	-26.16	0	100	V
		* 4.96037	41.17	PK2	34.30	-30.30	0.00	45.17	-	-	74.00	-28.83	360	339	H
		* 4.95961	30.71	MAv1	34.30	-30.40	2.84	37.45	54.00	-16.55	-	-	360	339	H
		* 4.95948	43.44	PK2	34.30	-30.40	0.00	47.34	-	-	74.00	-26.66	263	113	V
		* 4.95955	34.46	MAv1	34.30	-30.40	2.84	41.20	54.00	-12.80	-	-	263	113	V
2402	DUAL	* 7.44385	34.50	PK2	35.70	-25.00	0.00	45.20	-	-	74.00	-28.80	0	100	H
		* 7.44085	35.76	PK2	35.70	-25.00	0.00	46.46	-	-	74.00	-27.54	283	100	V
		* 7.43971	24.60	MAv1	35.70	-25.00	2.84	38.14	54.00	-15.86	-	-	283	100	V
		9.916	31.85	PK2	37.10	-21.30	0.00	47.65	-	-	74.00	-26.35	0	100	H
		9.919	31.35	PK2	37.10	-21.30	0.00	47.15	-	-	74.00	-26.85	0	100	V
		* 4.80013	38.94	PK2	34.30	-29.80	0.00	43.44	-	-	74.00	-30.56	0	100	H
		* 4.79923	39.05	PK2	34.30	-29.80	0.00	43.55	-	-	74.00	-30.45	0	100	V
		7.207	35.20	PK2	35.80	-25.70	0.00	45.30	-	-	74.00	-28.70	36	113	H
2440	DUAL	7.205	37.25	PK2	35.80	-25.70	0.00	47.35	-	-	74.00	-26.65	87	100	V
		9.609	31.84	PK2	36.70	-21.70	0.00	46.84	-	-	74.00	-27.16	0	100	H
		9.605	31.87	PK2	36.70	-21.60	0.00	46.97	-	-	74.00	-27.03	0	100	V
		* 4.88023	32.85	PK2	34.20	-30.50	0.00	36.55	-	-	74.00	-37.45	181	359	H
		* 4.88014	30.47	MAv1	34.20	-30.50	0.68	34.85	54.00	-19.15	-	-	181	359	H
		* 4.87962	42.26	PK2	34.20	-30.50	0.00	45.96	-	-	74.00	-28.04	252	109	V
		* 4.87987	32.68	MAv1	34.20	-30.50	0.68	37.06	54.00	-16.94	-	-	252	109	V
		* 7.31913	35.12	PK2	35.80	-25.20	0.00	45.72	-	-	74.00	-28.28	38	103	H
2480	DUAL	* 7.31969	23.87	MAv1	35.80	-25.20	0.68	35.15	54.00	-18.85	-	-	38	103	H
		* 7.31922	37.17	PK2	35.80	-25.20	0.00	47.77	-	-	74.00	-26.23	288	100	V
		* 7.31939	27.52	MAv1	35.80	-25.20	0.68	38.80	54.00	-15.20	-	-	288	100	V
		9.764	32.38	PK2	36.90	-21.20	0.00	48.08	-	-	74.00	-25.92	0	100	H
		9.759	32.65	PK2	36.90	-21.30	0.00	48.25	-	-	74.00	-25.75	261	100	V
		* 4.95932	40.04	PK2	34.30	-30.40	0.00	43.94	-	-	74.00	-30.06	44	369	H
		* 4.95965	30.13	MAv1	34.30	-30.40	0.00	34.71	54.00	-19.29	-	-	44	369	H
		* 4.96044	44.54	PK2	34.30	-30.30	0.00	48.54	-	-	74.00	-25.46	249	100	V
2402	DUAL	* 4.95997	37.25	MAv1	34.30	-30.40	0.68	41.83	54.00	-12.17	-	-	249	100	V
		* 7.43946	35.65	PK2	35.70	-25.00	0.00	46.35	-	-	74.00	-27.65	9	100	H
		* 7.44046	24.24	MAv1	35.70	-25.00	0.68	35.62	54.00	-18.38	-	-	9	100	H
		* 7.43927	38.00	PK2	35.70	-25.00	0.00	48.70	-	-	74.00	-25.30	288	101	V
		* 7.44058	28.46	MAv1	35.70	-25.00	0.68	39.84	54.00	-14.16	-	-	288	101	V
		9.924	32.05	PK2	37.10	-21.40	0.00	47.75	-	-	74.00	-26.25	141	106	H
		9.919	32.47	PK2	37.10	-21.30	0.00	48.27	-	-	74.00	-25.73	260	101	V

10.2.2. TX ABOVE 1 GHz BLUETOOTH LE 2 Mbps

BANDEDGE (WORST CASE: 2478 MHz, ANT1)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna 957 Factor (dBm)	10dB_Path 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	* 2.4835	46.55	Pk	32.4	-24.9	0	54.05	-	-	74	-19.95	92	397	V
2	* 2.48414	48.99	Pk	32.4	-24.9	0	56.49	-	-	74	-17.51	92	397	V
3	* 2.4835	31.21	RMS	32.4	-24.9	4.08	42.79	54	-11.21	-	-	92	397	V
4	* 2.4839	32.34	RMS	32.4	-24.9	4.08	43.92	54	-10.08	-	-	92	397	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

BANDEDGE TEST DATA

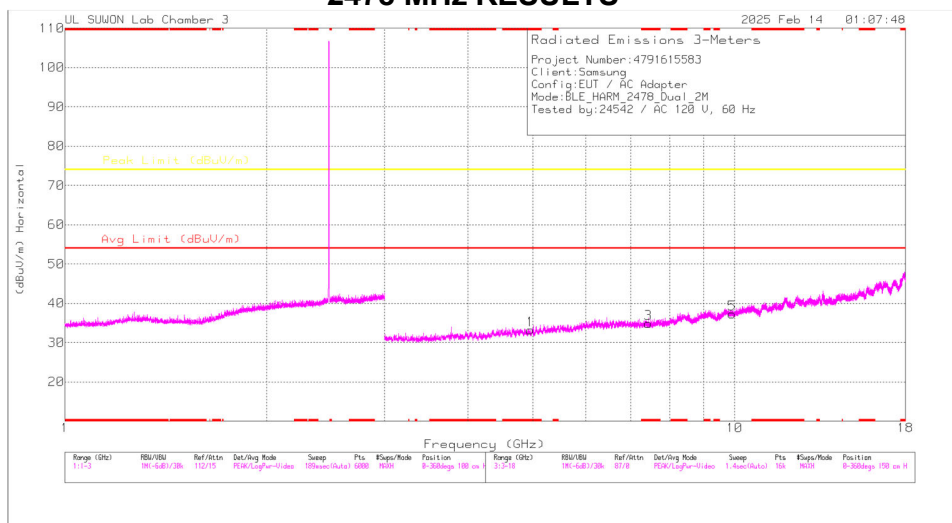
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 2.39	39.78	Pk	32.10	-24.90	0.00	46.98	-	-	74.00	-27.02	26	387	H
		* 2.37399	43.30	Pk	32.00	-25.00	0.00	50.30	-	-	74.00	-23.70	26	387	H
		* 2.39	28.16	RMS	32.10	-24.90	4.08	39.44	54.00	-14.56	-	-	26	387	H
		* 2.38136	29.68	RMS	32.10	-25.00	4.08	40.86	54.00	-13.14	-	-	26	387	H
		* 2.39	39.20	Pk	32.10	-24.90	0.00	46.40	-	-	74.00	-27.60	79	378	V
		* 2.36657	42.96	Pk	32.00	-25.10	0.00	49.86	-	-	74.00	-24.14	79	378	V
		* 2.39	30.38	RMS	32.10	-24.90	4.08	41.66	54.00	-12.34	-	-	79	378	V
		* 2.37942	31.59	RMS	32.10	-25.00	4.08	42.77	54.00	-11.23	-	-	79	378	V
2478	ANT1	* 2.4835	43.31	Pk	32.40	-24.90	0.00	50.81	-	-	74.00	-23.19	36	360	H
		* 2.48453	45.93	Pk	32.40	-24.90	0.00	53.43	-	-	74.00	-20.57	36	360	H
		* 2.4835	30.82	RMS	32.40	-24.90	4.08	42.40	54.00	-11.60	-	-	36	360	H
		* 2.48386	31.99	RMS	32.40	-24.90	4.08	43.57	54.00	-10.43	-	-	36	360	H
		* 2.4835	46.55	Pk	32.40	-24.90	0.00	54.05	-	-	74.00	-19.95	92	397	V
		* 2.48414	48.99	Pk	32.40	-24.90	0.00	56.49	-	-	74.00	-17.51	92	397	V
		* 2.4835	31.21	RMS	32.40	-24.90	4.08	42.79	54.00	-11.21	-	-	92	397	V
		* 2.4839	32.34	RMS	32.40	-24.90	4.08	43.92	54.00	-10.08	-	-	92	397	V
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
2404	ANT2	* 2.39	40.05	Pk	32.10	-24.90	0.00	47.25	-	-	74.00	-26.75	26	386	H
		* 2.3369	43.67	Pk	31.90	-25.00	0.00	50.57	-	-	74.00	-23.43	26	386	H
		* 2.39	30.70	RMS	32.10	-24.90	1.14	39.04	54.00	-14.96	-	-	26	386	H
		* 2.38221	31.37	RMS	32.10	-25.00	1.14	39.61	54.00	-14.39	-	-	26	386	H
		* 2.39	39.95	Pk	32.10	-24.90	0.00	47.15	-	-	74.00	-26.85	80	378	V
		* 2.3365	43.23	Pk	31.90	-25.00	0.00	50.13	-	-	74.00	-23.87	80	378	V
		* 2.39	30.57	RMS	32.10	-24.90	1.14	38.91	54.00	-15.09	-	-	80	378	V
		* 2.35761	31.75	RMS	32.00	-25.10	1.14	39.79	54.00	-14.21	-	-	80	378	V
2478	ANT2	* 2.4835	45.76	Pk	32.40	-24.90	0.00	53.26	-	-	74.00	-20.74	36	359	H
		* 2.48391	46.48	Pk	32.40	-24.90	0.00	53.98	-	-	74.00	-20.02	36	359	H
		* 2.4835	31.03	RMS	32.40	-24.90	1.14	39.67	54.00	-14.33	-	-	36	359	H
		* 2.48413	31.93	RMS	32.40	-24.90	1.14	40.57	54.00	-13.43	-	-	36	359	H
		* 2.4835	47.43	Pk	32.40	-24.90	0.00	54.93	-	-	74.00	-19.07	92	397	V
		* 2.48384	49.81	Pk	32.40	-24.90	0.00	57.31	-	-	74.00	-16.69	92	397	V
		* 2.4835	31.76	RMS	32.40	-24.90	1.14	40.40	54.00	-13.60	-	-	92	397	V
		* 2.48359	32.68	RMS	32.40	-24.90	1.14	41.32	54.00	-12.68	-	-	92	397	V
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
2404	DUAL	* 2.39	39.96	Pk	32.10	-24.90	0.00	47.16	-	-	74.00	-26.84	123	100	H
		* 2.31977	43.46	Pk	31.90	-25.00	0.00	50.36	-	-	74.00	-23.64	123	100	H
		* 2.39	30.33	RMS	32.10	-24.90	1.14	38.67	54.00	-15.33	-	-	123	100	H
		* 2.36794	31.61	RMS	32.00	-25.00	1.14	39.75	54.00	-14.25	-	-	123	100	H
		* 2.39	40.31	Pk	32.10	-24.90	0.00	47.51	-	-	74.00	-26.49	204	384	V
		* 2.35461	42.91	Pk	32.00	-25.00	0.00	49.91	-	-	74.00	-24.09	204	384	V
		* 2.39	30.45	RMS	32.10	-24.90	1.14	38.79	54.00	-15.21	-	-	204	384	V
		* 2.35962	31.70	RMS	32.00	-25.10	1.14	39.74	54.00	-14.26	-	-	204	384	V
2478	DUAL	* 2.4835	43.91	Pk	32.40	-24.90	0.00	51.41	-	-	74.00	-22.59	165	157	H
		* 2.48364	46.36	Pk	32.40	-24.90	0.00	53.86	-	-	74.00	-20.14	165	157	H
		* 2.4835	30.76	RMS	32.40	-24.90	1.14	39.40	54.00	-14.60	-	-	165	157	H
		2.555	31.25	RMS	32.40	-24.70	1.14	40.09	54.00	-13.91	-	-	165	157	H
		* 2.4835	44.02	Pk	32.40	-24.90	0.00	51.52	-	-	74.00	-22.48	201	399	V
		* 2.48395	46.27	Pk	32.40	-24.90	0.00	53.77	-	-	74.00	-20.23	201	399	V
		* 2.4835	31.69	RMS	32.40	-24.90	1.14	40.33	54.00	-13.67	-	-	201	399	V
		2.526	31.75	RMS	32.40	-24.70	1.14	40.59	54.00	-13.41	-	-	201	399	V

Note1. Pk - Peak detector, RMS - RMS detector

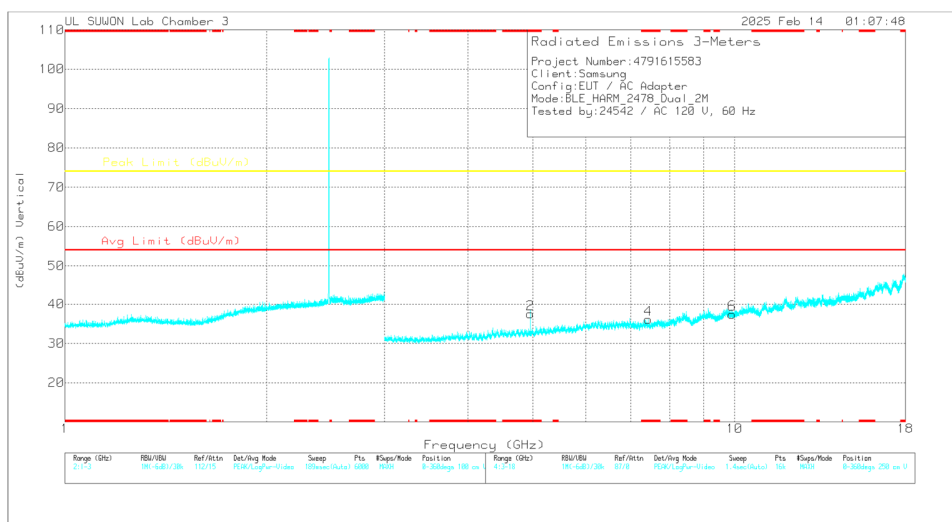
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2478 MHz, DUAL)

2478 MHz 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_957_Factor(dB/m)	3GHz_HP_Pat h 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
* 4.95686	39.86	PK2	34.3	-30.3	0	43.86	-	-	74	-30.14	220	267	H
* 4.95534	28.94	MAV1	34.3	-30.4	1.14	33.98	54	-20.02	-	-	220	267	H
* 4.95505	43.65	PK2	34.3	-30.4	0	47.55	-	-	74	-26.45	253	106	V
* 4.95677	34.21	MAV1	34.3	-30.3	1.14	39.35	54	-14.65	-	-	253	106	V
* 7.43386	34.65	PK2	35.7	-25	0	45.35	-	-	74	-28.65	9	101	H
* 7.43544	23.61	MAV1	35.7	-25	1.14	35.45	54	-18.55	-	-	9	101	H
* 7.43238	37.19	PK2	35.7	-24.9	0	47.99	-	-	74	-26.01	288	101	V
* 7.43531	26.68	MAV1	35.7	-25	1.14	38.52	54	-15.48	-	-	288	101	V
9.91226	32.22	PK2	37.1	-21.4	0	47.92	-	-	74	-26.08	0	101	H
9.91255	32.03	PK2	37.1	-21.4	0	47.73	-	-	74	-26.27	0	101	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

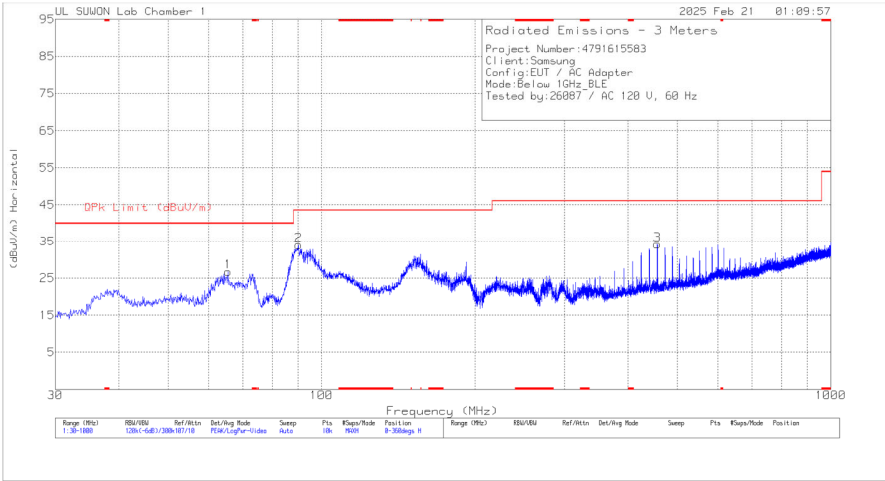
MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

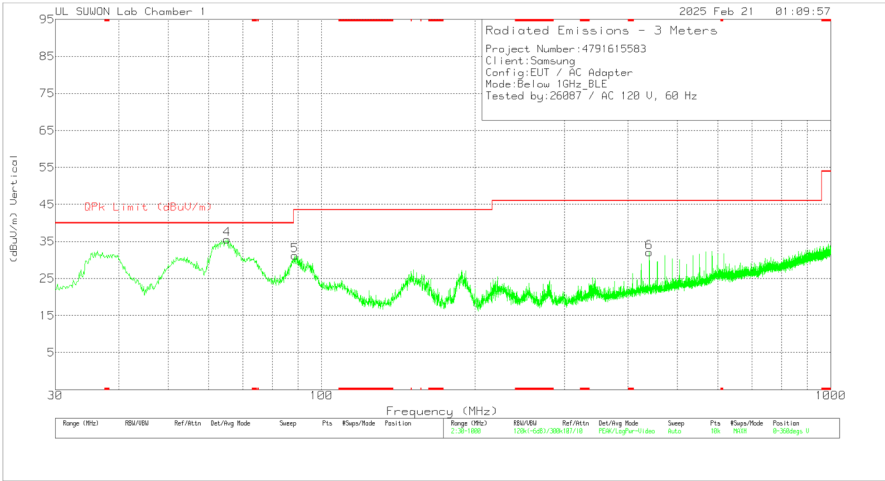
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 4.80862	39.99	PK2	34.30	-29.80	0.00	44.49	-	-	74.00	-29.51	319	106	H
		* 4.80802	28.45	MAv1	34.30	-29.80	4.08	37.03	54.00	-16.97	-	-	319	106	H
		* 4.80897	41.95	PK2	34.30	-29.80	0.00	46.45	-	-	74.00	-27.55	192	355	V
		* 4.80708	30.06	MAv1	34.30	-29.80	4.08	38.64	54.00	-15.36	-	-	192	355	V
		7.210	35.55	PK2	35.80	-25.80	0.00	45.55	-	-	74.00	-28.45	0	100	H
		7.211	34.75	PK2	35.80	-25.80	0.00	44.75	-	-	74.00	-29.25	138	108	V
		9.619	32.06	PK2	36.70	-21.60	0.00	47.16	-	-	74.00	-26.84	0	100	H
		9.614	32.66	PK2	36.70	-21.70	0.00	47.66	-	-	74.00	-26.34	0	100	V
2440	ANT1	* 4.87995	41.03	PK2	34.20	-30.50	0.00	44.73	-	-	74.00	-29.27	322	150	H
		* 4.87909	29.54	MAv1	34.20	-30.60	4.08	37.22	54.00	-16.78	-	-	322	150	H
		* 4.87898	42.31	PK2	34.20	-30.60	0.00	45.91	-	-	74.00	-28.09	176	366	V
		* 4.87912	31.17	MAv1	34.20	-30.60	4.08	38.85	54.00	-15.15	-	-	176	366	V
		* 7.32183	35.09	PK2	35.80	-25.00	0.00	45.89	-	-	74.00	-28.11	0	100	H
		* 7.31909	34.70	PK2	35.80	-25.20	0.00	45.30	-	-	74.00	-28.70	150	104	V
		* 7.32126	23.47	MAv1	35.80	-25.10	4.08	38.25	54.00	-15.75	-	-	150	104	V
		9.759	32.33	PK2	36.90	-21.30	0.00	47.93	-	-	74.00	-26.07	0	100	H
2478	ANT1	9.760	31.83	PK2	36.90	-21.30	0.00	47.43	-	-	74.00	-26.57	0	100	V
		* 4.95481	40.44	PK2	34.30	-30.40	0.00	44.34	-	-	74.00	-29.66	333	128	H
		* 4.95601	28.81	MAv1	34.30	-30.30	4.08	36.89	54.00	-17.11	-	-	333	128	H
		* 4.95691	41.64	PK2	34.30	-30.30	0.00	45.64	-	-	74.00	-28.36	181	100	V
		* 4.95603	30.55	MAv1	34.30	-30.30	4.08	38.63	54.00	-15.37	-	-	181	100	V
		* 7.43586	34.48	PK2	35.70	-25.00	0.00	45.18	-	-	74.00	-28.82	144	103	H
		* 7.43288	22.97	MAv1	35.70	-25.00	4.08	37.75	54.00	-16.25	-	-	144	103	H
		* 7.43236	34.93	PK2	35.70	-24.90	0.00	45.73	-	-	74.00	-28.27	143	100	V
		* 7.43434	22.87	MAv1	35.70	-25.00	4.08	37.65	54.00	-16.35	-	-	143	100	V
		9.911	31.64	PK2	37.10	-21.30	0.00	47.44	-	-	74.00	-26.56	0	100	H
		9.911	31.41	PK2	37.10	-21.30	0.00	47.21	-	-	74.00	-26.79	0	100	V
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
2404	ANT2	* 4.80875	40.63	PK2	34.30	-29.80	0.00	45.13	-	-	74.00	-28.87	40	103	H
		* 4.8078	28.47	MAv1	34.30	-29.80	1.14	34.11	54.00	-19.89	-	-	40	103	H
		* 4.80697	44.03	PK2	34.30	-29.80	0.00	48.53	-	-	74.00	-25.47	252	106	V
		* 4.80814	33.42	MAv1	34.30	-29.80	1.14	39.06	54.00	-14.94	-	-	252	106	V
		7.206	34.70	PK2	35.80	-25.70	0.00	44.80	-	-	74.00	-29.20	54	100	H
		7.211	35.90	PK2	35.80	-25.70	0.00	46.00	-	-	74.00	-28.00	278	100	V
		9.616	31.91	PK2	36.70	-21.70	0.00	46.91	-	-	74.00	-27.09	0	100	H
		9.613	32.13	PK2	36.70	-21.70	0.00	47.13	-	-	74.00	-26.87	0	100	V
2440	ANT2	* 4.87999	43.70	PK2	34.20	-30.50	0.00	47.40	-	-	74.00	-26.60	194	370	H
		* 4.8792	30.18	MAv1	34.20	-30.60	1.14	34.92	54.00	-19.08	-	-	194	370	H
		* 4.87896	44.66	PK2	34.20	-30.60	0.00	48.26	-	-	74.00	-25.74	260	100	V
		* 4.87895	33.22	MAv1	34.20	-30.60	1.14	37.96	54.00	-16.04	-	-	260	100	V
		* 7.31946	34.25	PK2	35.80	-25.20	0.00	44.85	-	-	74.00	-29.15	360	100	H
		* 7.31918	35.00	PK2	35.80	-25.20	0.00	45.60	-	-	74.00	-28.40	298	100	V
		* 7.31848	23.22	MAv1	35.80	-25.20	1.14	34.96	54.00	-19.04	-	-	298	100	V
		9.758	31.66	PK2	36.90	-21.30	0.00	47.26	-	-	74.00	-26.74	0	100	H
2478	ANT2	9.756	31.98	PK2	36.90	-21.30	0.00	47.58	-	-	74.00	-26.42	0	100	V
		* 4.95473	39.27	PK2	34.30	-30.40	0.00	43.17	-	-	74.00	-30.83	360	367	H
		* 4.95502	27.50	MAv1	34.30	-30.40	1.14	32.54	54.00	-21.46	-	-	360	367	H
		* 4.95701	44.28	PK2	34.30	-30.30	0.00	48.28	-	-	74.00	-25.72	262	115	V
		* 4.95493	32.55	MAv1	34.30	-30.40	1.14	37.59	54.00	-16.41	-	-	262	115	V
		* 7.43852	35.14	PK2	35.70	-25.00	0.00	45.84	-	-	74.00	-28.16	360	100	H
		* 7.43269	35.34	PK2	35.70	-24.90	0.00	46.14	-	-	74.00	-27.86	285	100	V
		* 7.43259	23.93	MAv1	35.70	-24.90	1.14	35.87	54.00	-18.13	-	-	285	100	V
		9.916	31.96	PK2	37.10	-21.20	0.00	47.86	-	-	74.00	-26.14	0	100	H
		9.911	31.77	PK2	37.10	-21.30	0.00	47.57	-	-	74.00	-26.43	0	100	V
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
2404	DUAL	* 4.81349	38.87	PK2	34.30	-29.90	0.00	43.27	-	-	74.00	-30.73	0	100	H
		* 4.81252	38.78	PK2	34.30	-29.90	0.00	43.18	-	-	74.00	-30.82	0	100	V
		7.214	36.85	PK2	35.80	-25.70	0.00	46.95	-	-	74.00	-27.05	89	100	V
		7.209	35.02	PK2	35.80	-25.80	0.00	45.02	-	-	74.00	-28.98	34	120	H
		9.615	32.44	PK2	36.70	-21.70	0.00	47.44	-	-	74.00	-26.56	0	100	H
		9.621	32.26	PK2	36.70	-21.60	0.00	47.36	-	-	74.00	-26.64	0	100	V
2440	DUAL	* 4.88002	41.72	PK2	34.20	-30.50	0.00	45.42	-	-	74.00	-28.58	176	351	H
		* 4.88008	30.69	MAv1	34.20	-30.50	1.14	35.53	54.00	-18.47	-	-	176	351	H
		* 4.88001	42.20	PK2	34.20	-30.50	0.00	45.90	-	-	74.00	-28.10	251	110	V
		* 4.87889	32.14	MAv1	34.20	-30.60	1.14	36.88	54.00	-17.12	-	-	251	110	V
		* 7.31983	35.14	PK2	35.80	-25.20	0.00	45.74	-	-	74.00	-28.26	35	105	H
		* 7.31875	24.01	MAv1	35.80	-25.20	1.14	35.75	54.00	-18.25	-	-	35	105	H
		* 7.32144	36.84	PK2	35.80	-25.10	0.00	47.54	-	-	74.00	-26.46	288	100	V
		* 7.31871	26.71	MAv1	35.80	-25.20	1.14	38.45	54.00	-15.55	-	-	288	100	V
2478	DUAL	9.760	32.27	PK2	36.90	-21.30	0.00	47.87	-	-	74.00	-26.13	0	100	H
		9.758	32.26	PK2	36.90	-21.30	0.00	47.86	-	-	74.00	-26.14	0	100	V
		* 4.95686	39.86	PK2	34.30	-30.30	0.00	43.86	-	-	74.00	-30.14	220	267	H
		* 4.95534	28.94	MAv1	34.30	-30.40	1.14	33.98	54.00	-20.02	-	-	220	267	H
		* 4.95505	43.65	PK2	34.30	-30.40	0.00	47.55	-	-	74.00	-26.45	253	106	V
		* 4.95677	34.21	MAv1	34.30	-30.30	1.14	39.35	54.00	-14.65	-	-	253	106	V
		* 7.43386	34.65	PK2	35.70	-25.00	0.00	45.35	-	-	74.00	-28.65	9	101	H
		* 7.43544	23.61	MAv1	35.70	-25.00	1.14	35.45	54.00	-18.55	-	-	9	101	H
		* 7.43238	37.19	PK2	35.70	-24.90	0.00	47.99	-	-	74.00	-26.01	288	101	V
		* 7.43531	26.68	MAv1	35.70	-25.00	1.14	38.52	54.00	-15.48	-	-	288	101	V
		9.912	32.22	PK2	37.10	-21.40	0.00	47.92	-	-	74.00	-26.08	0	101	H
		9.913	32.03	PK2	37.10	-21.40	0.00	47.73	-	-	74.00	-26.27	0	101	V

10.3. WORST CASE BELOW 1 GHz

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



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor(dB/m)	Below 1G Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.502	40.32	Pk	17	-30.6	26.72	40	-13.28	0-360	100	H
2	90.043	48.53	Pk	15.8	-30.3	34.03	43.52	-9.49	0-360	100	H
3	456.315	39.77	Pk	22	-27.6	34.17	46.02	-11.85	0-360	100	H
4	65.308	49.05	Pk	17.1	-30.6	35.55	40	-4.45	0-360	300	V
5	88.588	46.32	Pk	15.3	-30.4	31.22	43.52	-12.3	0-360	200	V
6	440.31	37.99	Pk	21.9	-27.8	32.09	46.02	-13.93	0-360	200	V

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor(dB/m)	Below 1G Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
65.308	34.16	Qp	17.1	-30.6	20.66	40	-19.34	350	319	V

Qp - Quasi-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.

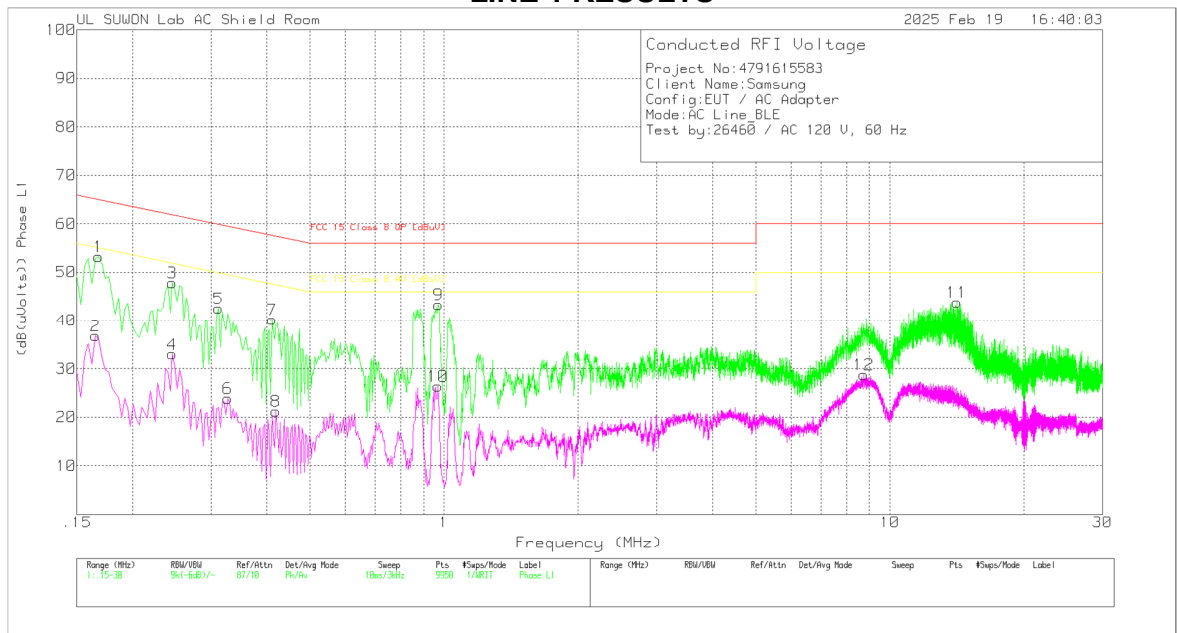
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line

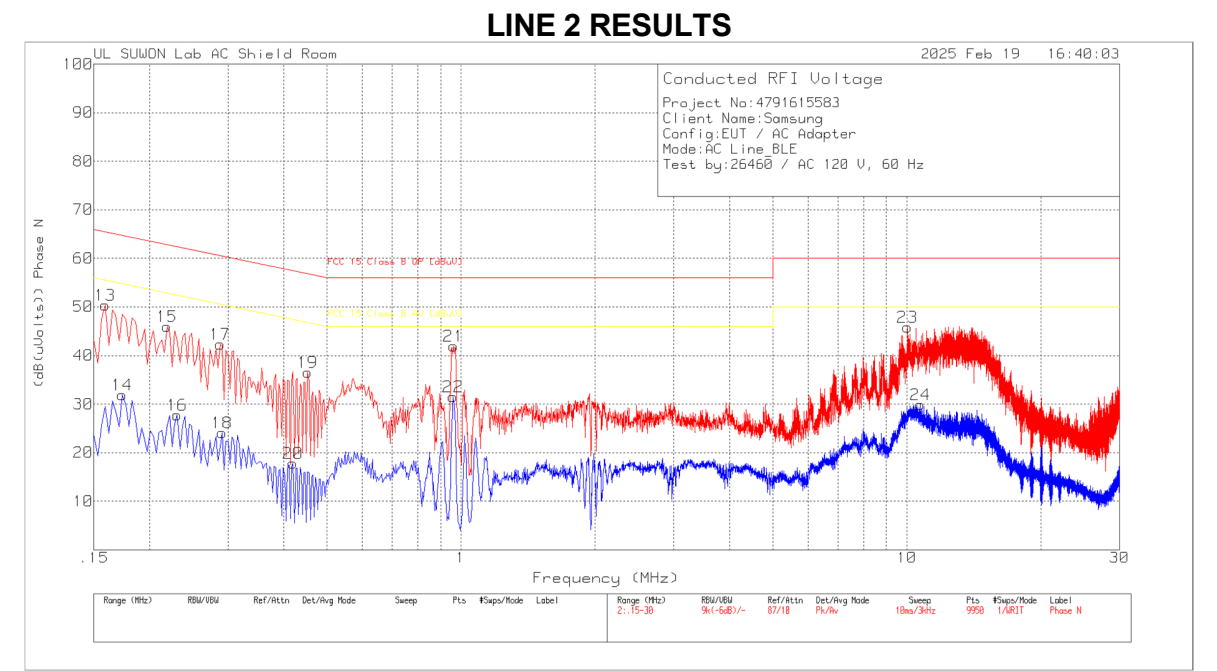
LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.168	43.12	Pk	10	.1	53.22	65.06	-11.84	-	-
2	.165	26.79	Av	9.9	.1	36.79	-	-	55.21	-18.42
3	.246	38.18	Pk	9.6	.1	47.88	61.89	-14.01	-	-
4	.246	23.27	Av	9.6	.1	32.97	-	-	51.89	-18.92
5	.312	32.73	Pk	9.7	.1	42.53	59.92	-17.39	-	-
6	.327	14.1	Av	9.7	.1	23.9	-	-	49.53	-25.63
7	.411	30.27	Pk	9.8	.1	40.17	57.63	-17.46	-	-
8	.42	11.33	Av	9.8	.1	21.23	-	-	47.45	-26.22
9	.972	33.42	Pk	9.8	.1	43.32	56	-12.68	-	-
10	.969	16.46	Av	9.8	.1	26.36	-	-	46	-19.64
11	14.136	33.5	Pk	10	.3	43.8	60	-16.2	-	-
12	8.748	18.74	Av	9.8	.2	28.74	-	-	50	-21.26

Pk - Peak detector
Av - Average detection



Trace Markers

Range 2: Phase N .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.159	40.45	Pk	9.8	.1	50.35	65.52	-15.17	-	-
14	.174	21.83	Av	10	.1	31.93	-	-	54.77	-22.84
15	.219	36.1	Pk	9.8	.1	46	62.86	-16.86	-	-
16	.231	17.95	Av	9.7	.1	27.75	-	-	52.41	-24.66
17	.288	32.52	Pk	9.7	.1	42.32	60.58	-18.26	-	-
18	.291	14.3	Av	9.7	.1	24.1	-	-	50.5	-26.4
19	.453	26.64	Pk	9.8	.1	36.54	56.82	-20.28	-	-
20	.42	7.95	Av	9.8	.1	17.85	-	-	47.45	-29.6
21	.963	32.01	Pk	9.8	.1	41.91	56	-14.09	-	-
22	.96	21.63	Av	9.8	.1	31.53	-	-	46	-14.47
23	10.035	35.72	Pk	9.9	.2	45.82	60	-14.18	-	-
24	10.734	19.77	Av	9.9	.2	29.87	-	-	50	-20.13

Pk - Peak detector
Av - Average detection

END OF TEST REPORT