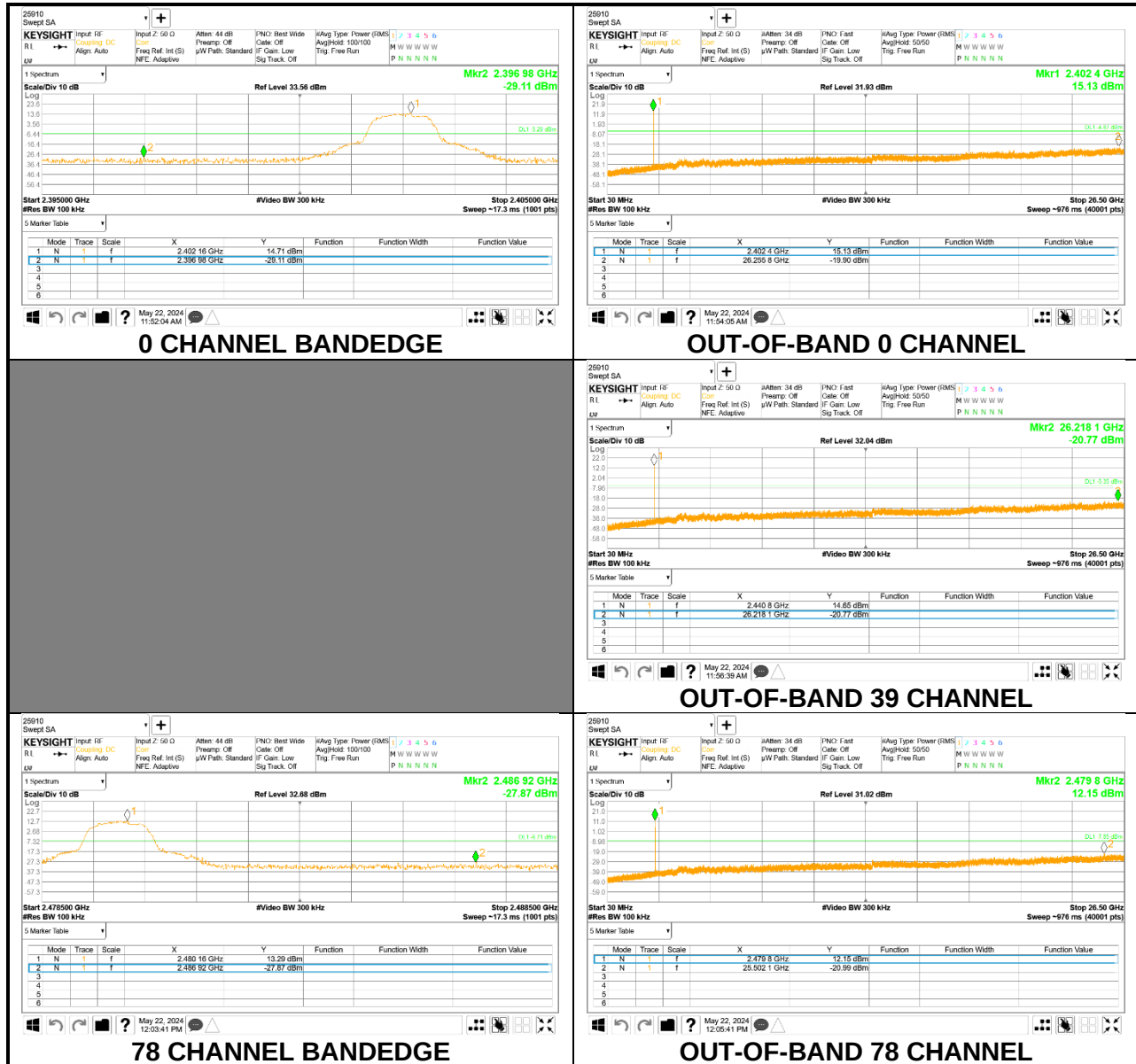
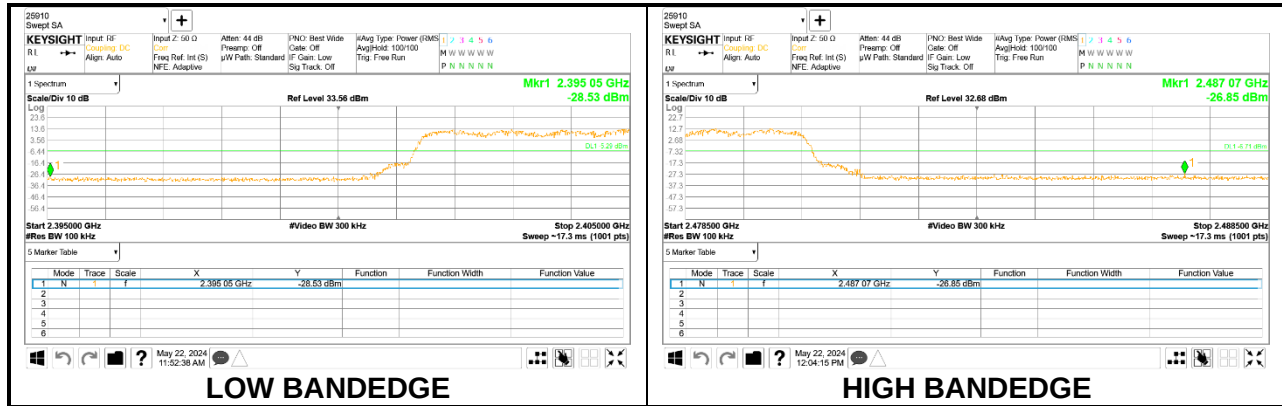


SPURIOUS EMISSIONS, NON-HOPPING – ANT2



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON – ANT2



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 1GHz and 150 cm for above 1GHz. 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. (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.)

For band edge 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 1/T (on time) for average measurement.

$$\text{GFSK} = 1/T = 1 / 0.00288\text{s} = 347\text{Hz}.$$

The minimum VBW was 347Hz, but test receiver(ESU40) couldn't set value 347Hz. Due to this reason, testing VBW was set to 500Hz(Worst cases).

The spectrum from 1GHz 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.

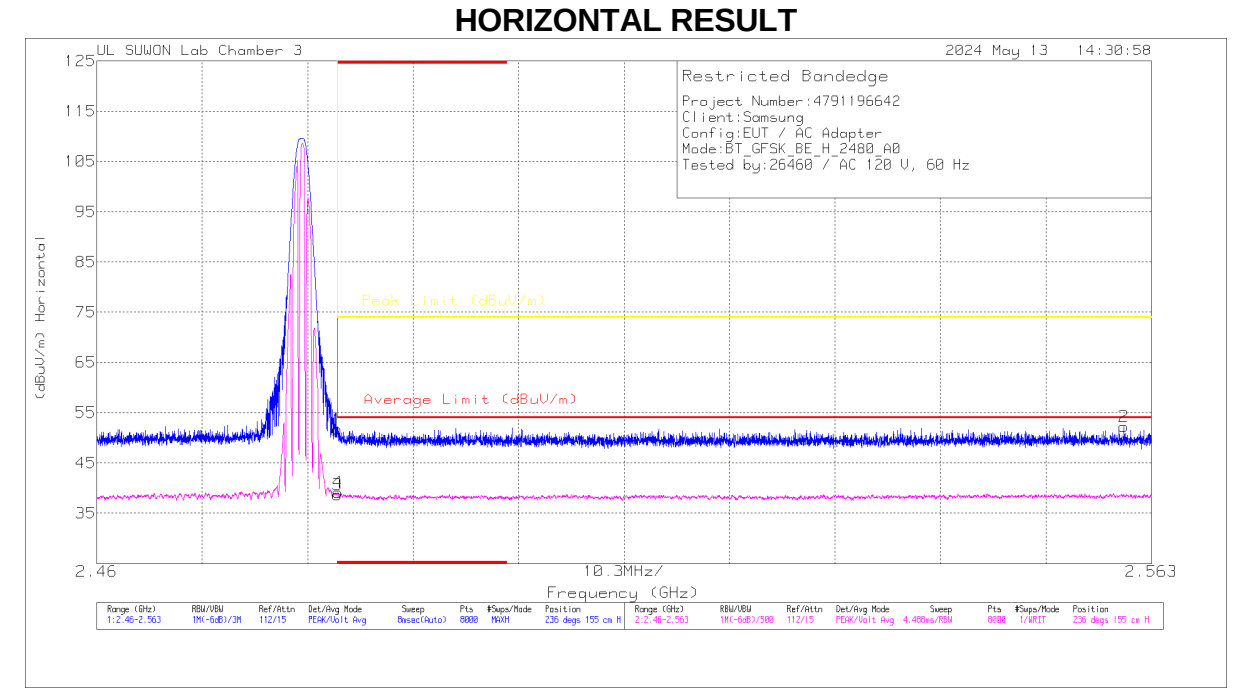
Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

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.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

BANDEDGE (WORST CASE: 78 CHANNEL, ANT1)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_957_F actor(dB)	10dB_Path Loss(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	44.17	PK	32.4	-24.8	51.77	-	-	74	-22.23	236	155	H
2	2.56032	44.53	PK	32.4	-24.7	52.23	-	-	74	-21.77	236	155	H
3	* 2.4835	31.11	VA1T	32.4	-24.8	38.71	54	-15.29	-	-	236	155	H
4	* 2.48356	31.58	VA1T	32.4	-24.8	39.18	54	-14.82	-	-	236	155	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE TEST DATA

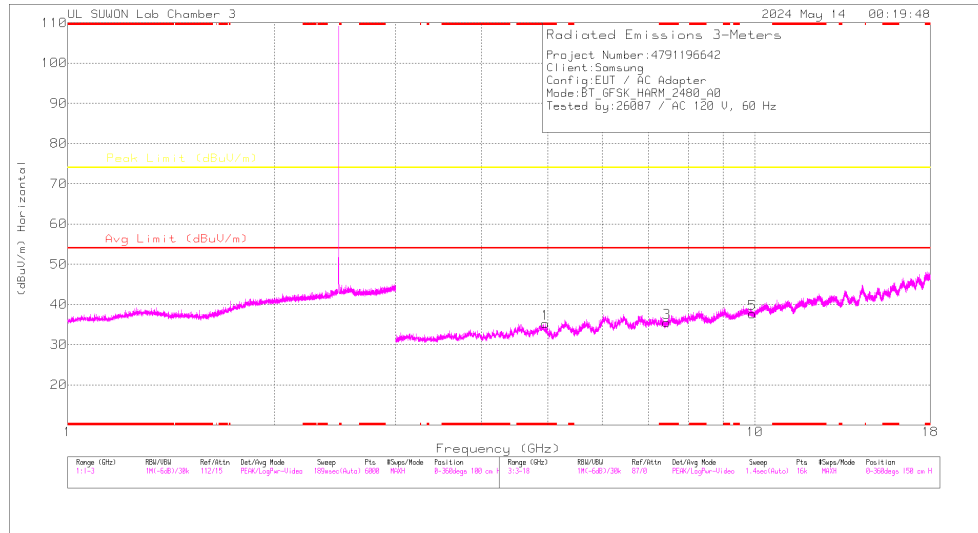
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	42.58	Pk	32.10	-24.80	49.88	-	-	74.00	-24.12	237	141	H
		* 2.38296	44.54	Pk	32.10	-24.90	51.74	-	-	74.00	-22.26	237	141	H
		* 2.39	30.04	VA1T	32.10	-24.80	37.34	54.00	-16.66	-	-	237	141	H
		* 2.38561	30.49	VA1T	32.10	-24.90	37.69	54.00	-16.31	-	-	237	141	H
		* 2.39	42.00	Pk	32.10	-24.80	49.30	-	-	74.00	-24.70	197	392	V
		* 2.39879	44.77	Pk	32.00	-24.90	51.87	-	-	74.00	-22.13	197	392	V
		* 2.39	29.99	VA1T	32.10	-24.80	37.29	54.00	-16.71	-	-	197	392	V
2480	ANT1	* 2.38857	30.28	VA1T	32.10	-24.80	37.58	54.00	-16.42	-	-	197	392	V
		* 2.4835	44.17	Pk	32.40	-24.80	51.77	-	-	74.00	-22.23	236	155	H
		2.560	44.53	Pk	32.40	-24.70	52.23	-	-	74.00	-21.77	236	155	H
		* 2.4835	31.11	VA1T	32.40	-24.80	38.71	54.00	-15.29	-	-	236	155	H
		* 2.48356	31.58	VA1T	32.40	-24.80	39.18	54.00	-14.82	-	-	236	155	H
		* 2.4835	42.56	Pk	32.40	-24.80	50.16	-	-	74.00	-23.84	202	309	V
		2.543	44.43	Pk	32.40	-24.70	52.13	-	-	74.00	-21.87	202	309	V
2402	ANT2	* 2.4835	30.51	VA1T	32.40	-24.80	38.11	54.00	-15.89	-	-	202	309	V
		2.546	31.21	VA1T	32.40	-24.60	39.01	54.00	-14.99	-	-	202	309	V
		* 2.39	42.44	Pk	32.10	-24.80	49.74	-	-	74.00	-24.26	147	354	H
		* 2.3217	44.40	Pk	31.90	-24.80	51.50	-	-	74.00	-22.50	147	354	H
		* 2.39	29.90	VA1T	32.10	-24.80	37.20	54.00	-16.80	-	-	147	354	H
		* 2.37902	30.46	VA1T	32.10	-24.90	37.66	54.00	-16.34	-	-	147	354	H
		* 2.39	41.58	Pk	32.10	-24.80	48.88	-	-	74.00	-25.12	250	304	V
2480	ANT2	* 2.36952	44.84	Pk	32.00	-24.80	52.04	-	-	74.00	-21.96	250	304	V
		* 2.39	30.03	VA1T	32.10	-24.80	37.33	54.00	-16.67	-	-	250	304	V
		* 2.37578	30.48	VA1T	32.10	-24.90	37.68	54.00	-16.32	-	-	250	304	V
		* 2.4835	41.23	Pk	32.40	-24.80	48.83	-	-	74.00	-25.17	33	375	H
		* 2.4836	44.69	Pk	32.40	-24.80	52.29	-	-	74.00	-21.71	33	375	H
		* 2.4835	30.56	VA1T	32.40	-24.80	38.16	54.00	-15.84	-	-	33	375	H
		2.554	31.18	VA1T	32.40	-24.60	38.98	54.00	-15.02	-	-	33	375	H
2402	DUAL	* 2.4835	42.05	Pk	32.40	-24.80	49.65	-	-	74.00	-24.35	250	284	V
		* 2.48395	47.55	Pk	32.40	-24.80	55.15	-	-	74.00	-18.85	250	284	V
		* 2.4835	30.47	VA1T	32.40	-24.80	38.07	54.00	-15.93	-	-	250	284	V
		2.554	31.26	VA1T	32.40	-24.60	39.06	54.00	-14.94	-	-	250	284	V
		* 2.39	41.44	Pk	32.10	-24.80	48.74	-	-	74.00	-25.26	249	117	H
		* 2.32428	45.44	Pk	31.90	-24.80	52.54	-	-	74.00	-21.46	249	117	H
		* 2.39	29.89	VA1T	32.10	-24.80	37.19	54.00	-16.81	-	-	249	117	H
2480	DUAL	* 2.37587	30.43	VA1T	32.10	-24.90	37.63	54.00	-16.37	-	-	249	117	H
		* 2.39	42.25	Pk	32.10	-24.80	49.55	-	-	74.00	-24.45	47	378	V
		* 2.37779	44.41	Pk	32.10	-24.80	51.71	-	-	74.00	-22.29	47	378	V
		* 2.39	29.44	VA1T	32.10	-24.80	36.74	54.00	-17.26	-	-	47	378	V
		* 2.38754	30.32	VA1T	32.10	-24.80	37.62	54.00	-16.38	-	-	47	378	V
		* 2.4835	41.85	Pk	32.40	-24.80	49.45	-	-	74.00	-24.55	228	134	H
		* 2.48364	45.30	Pk	32.40	-24.80	52.90	-	-	74.00	-21.10	228	134	H
2402	DUAL	* 2.4835	31.30	VA1T	32.40	-24.80	38.90	54.00	-15.10	-	-	228	134	H
		* 2.48369	31.39	VA1T	32.40	-24.80	38.99	54.00	-15.01	-	-	228	134	H
		* 2.4835	42.12	Pk	32.40	-24.80	49.72	-	-	74.00	-24.28	41	358	V
		2.528	44.86	Pk	32.40	-24.90	52.36	-	-	74.00	-21.64	41	358	V
		* 2.4835	30.28	VA1T	32.40	-24.80	37.88	54.00	-16.12	-	-	41	358	V
		2.560	31.18	VA1T	32.40	-24.70	38.88	54.00	-15.12	-	-	41	358	V

Note1. Pk - Peak detector, VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

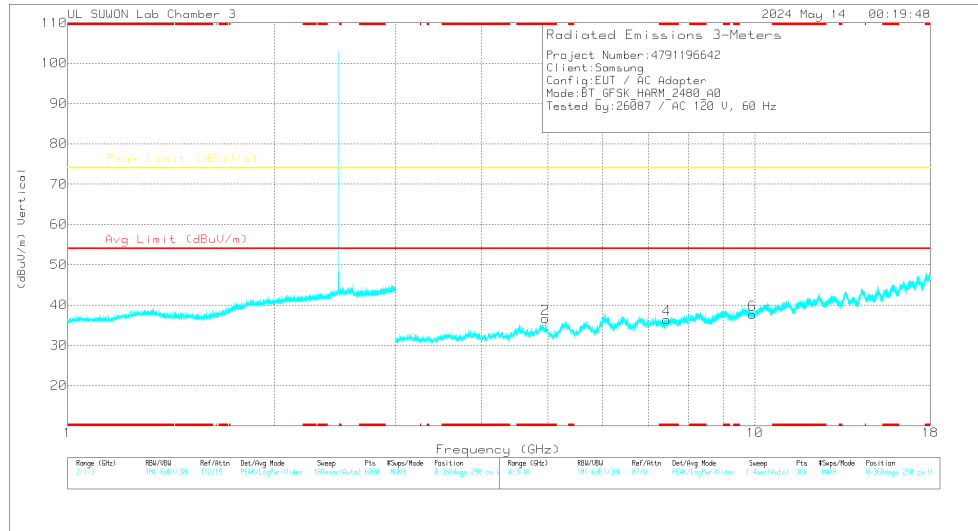
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE – ANT1)

39 CHANNEL 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)	3GHz_HP_Pat h Loss(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.95981	38.3	PKFH	34.3	-30	42.6	-	-	74	-31.4	309	100	H
* 4.95997	28.69	VA1T	34.3	-30	32.99	54	-21.01	-	-	309	100	H
* 4.95966	39.05	PKFH	34.3	-30	43.35	-	-	74	-30.65	157	100	V
* 4.96008	29.54	VA1T	34.3	-30	33.84	54	-20.16	-	-	157	100	V
* 7.43915	33.74	PKFH	35.7	-25.2	44.24	-	-	74	-29.76	196	100	H
* 7.44018	21.14	VA1T	35.7	-25.2	31.64	54	-22.36	-	-	196	100	H
* 7.44525	33.53	PKFH	35.7	-25.2	44.03	-	-	74	-29.97	333	100	V
* 7.44016	21.42	VA1T	35.7	-25.2	31.92	54	-22.08	-	-	333	100	V
9.91991	30.85	PKFH	37.1	-21.4	46.55	-	-	74	-27.45	0	100	H
9.92053	30.07	PKFH	37.1	-21.4	45.77	-	-	74	-28.23	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	* 4.80397	37.71	PKFH	34.30	-30.10	41.91	-	-	74.00	-32.09	209	110	H
		* 4.80403	26.83	VA1T	34.30	-30.10	31.03	54.00	-22.97	-	-	209	110	H
		* 4.80356	40.00	PKFH	34.30	-30.10	44.20	-	-	74.00	-29.80	211	100	V
		* 4.8039	27.15	VA1T	34.30	-30.10	31.35	54.00	-22.65	-	-	211	100	V
		7.202	33.91	PKFH	35.80	-25.80	43.91	-	-	74.00	-30.09	310	100	H
		7.205	34.43	PKFH	35.80	-25.90	44.33	-	-	74.00	-29.67	274	274	V
		9.605	31.24	PKFH	36.70	-21.80	46.14	-	-	74.00	-27.86	0	100	H
		9.606	31.44	PKFH	36.70	-21.80	46.34	-	-	74.00	-27.66	0	100	V
2441	ANT1	* 4.88163	38.32	PKFH	34.20	-29.90	42.62	-	-	74.00	-31.38	318	113	H
		* 4.88192	27.56	VA1T	34.20	-30.00	31.76	54.00	-22.24	-	-	318	113	H
		* 4.87965	38.86	PKFH	34.20	-29.90	43.16	-	-	74.00	-30.84	152	100	V
		* 4.88219	27.53	VA1T	34.20	-30.00	31.73	54.00	-22.27	-	-	152	100	V
		* 7.32027	34.26	PKFH	35.80	-25.50	44.56	-	-	74.00	-29.44	186	101	H
		* 7.31937	20.71	VA1T	35.80	-25.50	31.01	54.00	-22.99	-	-	186	101	H
		* 7.3245	33.02	PKFH	35.80	-25.50	43.32	-	-	74.00	-30.68	269	246	V
		* 7.32268	20.88	VA1T	35.80	-25.50	31.18	54.00	-22.82	-	-	269	246	V
		9.769	30.74	PKFH	36.90	-21.50	46.14	-	-	74.00	-27.86	0	100	H
		9.767	31.11	PKFH	36.90	-21.50	46.51	-	-	74.00	-27.49	0	100	V
		* 4.95981	38.30	PKFH	34.30	-30.00	42.60	-	-	74.00	-31.40	309	100	H
2480	ANT1	* 4.95997	28.69	VA1T	34.30	-30.00	32.99	54.00	-21.01	-	-	309	100	H
		* 4.95966	39.05	PKFH	34.30	-30.00	43.35	-	-	74.00	-30.65	157	100	V
		* 4.96008	29.54	VA1T	34.30	-30.00	33.84	54.00	-20.16	-	-	157	100	V
		* 7.43915	33.74	PKFH	35.70	-25.20	44.24	-	-	74.00	-29.76	196	100	H
		* 7.44018	21.14	VA1T	35.70	-25.20	31.64	54.00	-22.36	-	-	196	100	H
		* 7.44525	33.53	PKFH	35.70	-25.20	44.03	-	-	74.00	-29.97	333	100	V
		* 7.44016	21.42	VA1T	35.70	-25.20	31.92	54.00	-22.08	-	-	333	100	V
		9.920	30.85	PKFH	37.10	-21.40	46.55	-	-	74.00	-27.45	0	100	H
		9.921	30.07	PKFH	37.10	-21.40	45.77	-	-	74.00	-28.23	0	100	V
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	* 4.8043	37.99	PKFH	34.30	-30.10	42.19	-	-	74.00	-31.81	0	100	H
		* 4.80406	25.25	VA1T	34.30	-30.10	29.45	54.00	-24.55	-	-	0	100	H
		* 4.80377	38.19	PKFH	34.30	-30.10	42.39	-	-	74.00	-31.61	212	165	V
		* 4.80402	25.74	VA1T	34.30	-30.10	29.94	54.00	-24.06	-	-	212	165	V
		7.204	33.99	PKFH	35.80	-25.80	43.99	-	-	74.00	-30.01	0	100	H
		7.205	33.53	PKFH	35.80	-25.90	43.43	-	-	74.00	-30.57	0	100	V
		9.606	31.96	PKFH	36.70	-21.80	46.86	-	-	74.00	-27.14	0	100	H
		9.607	32.16	PKFH	36.70	-21.80	47.06	-	-	74.00	-26.94	0	100	V
2441	ANT2	* 4.88258	38.08	PKFH	34.20	-30.00	42.28	-	-	74.00	-31.72	0	100	H
		* 4.88226	25.42	VA1T	34.20	-30.00	29.62	54.00	-24.38	-	-	0	100	H
		* 4.88407	38.40	PKFH	34.20	-29.90	42.70	-	-	74.00	-31.30	233	102	V
		* 4.88204	25.79	VA1T	34.20	-30.00	29.99	54.00	-24.01	-	-	233	102	V
		* 7.32537	32.55	PKFH	35.80	-25.50	42.85	-	-	74.00	-31.15	0	100	H
		* 7.32326	33.46	PKFH	35.80	-25.50	43.76	-	-	74.00	-30.24	0	100	V
		9.762	31.06	PKFH	36.90	-21.50	46.46	-	-	74.00	-27.54	0	100	H
		9.765	30.58	PKFH	36.90	-21.50	45.98	-	-	74.00	-28.02	0	100	V
2480	ANT2	* 4.95856	37.79	PKFH	34.30	-30.00	42.09	-	-	74.00	-31.91	0	100	H
		* 4.96068	24.88	VA1T	34.30	-30.00	29.18	54.00	-24.82	-	-	0	100	H
		* 4.96243	37.65	PKFH	34.30	-30.10	41.85	-	-	74.00	-32.15	185	110	V
		* 4.95997	25.51	VA1T	34.30	-30.00	29.81	54.00	-24.19	-	-	185	110	V
		* 7.44078	32.47	PKFH	35.70	-25.20	42.97	-	-	74.00	-31.03	0	100	H
		* 7.43921	33.11	PKFH	35.70	-25.20	43.61	-	-	74.00	-30.39	0	100	V
		9.921	29.69	PKFH	37.10	-21.30	45.49	-	-	74.00	-28.51	0	100	H
		9.919	29.71	PKFH	37.10	-21.30	45.51	-	-	74.00	-28.49	0	100	V

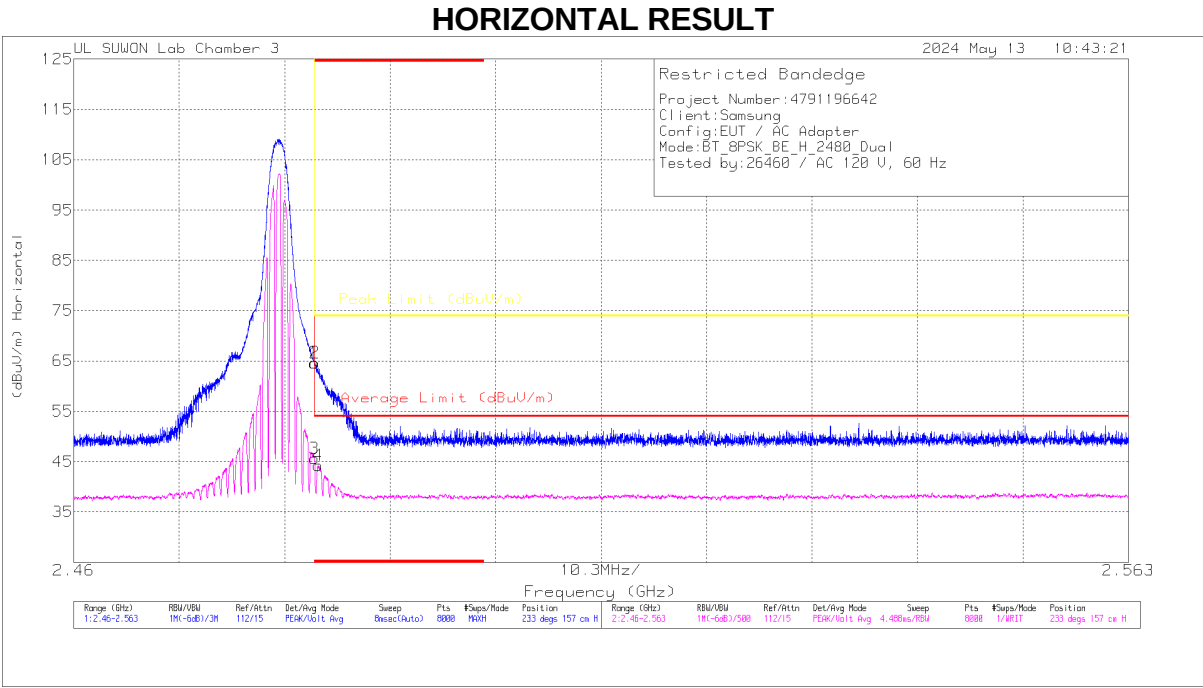
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	DUAL	* 4.80978	37.47	PKFH	34.30	-30.10	41.67	-	-	74.00	-32.33	0	100	H
		* 4.80265	37.22	PKFH	34.30	-30.10	41.42	-	-	74.00	-32.58	0	100	V
		7.206	35.54	PKFH	35.80	-25.90	45.44	-	-	74.00	-28.56	358	114	H
		7.206	35.43	PKFH	35.80	-25.90	45.33	-	-	74.00	-28.67	171	106	V
		9.612	31.47	PKFH	36.70	-21.80	46.37	-	-	74.00	-27.63	0	100	H
		9.607	31.34	PKFH	36.70	-21.80	46.24	-	-	74.00	-27.76	0	100	V
2441	DUAL	* 4.88156	38.04	PKFH	34.20	-29.90	42.34	-	-	74.00	-31.66	295	251	H
		* 4.88206	25.69	VA1T	34.20	-30.00	29.89	54.00	-24.11	-	-	295	251	H
		* 4.879	38.56	PKFH	34.20	-29.90	42.86	-	-	74.00	-31.14	297	100	V
		* 4.87953	25.31	VA1T	34.20	-29.90	29.61	54.00	-24.39	-	-	297	100	V
		* 7.32323	33.70	PKFH	35.80	-25.50	44.00	-	-	74.00	-30.00	203	121	H
		* 7.32285	21.67	VA1T	35.80	-25.50	31.97	54.00	-22.03	-	-	203	121	H
		* 7.32338	33.56	PKFH	35.80	-25.50	43.86	-	-	74.00	-30.14	264	100	V
		* 7.32296	22.12	VA1T	35.80	-25.50	32.42	54.00	-21.58	-	-	264	100	V
		9.764	30.38	PKFH	36.90	-21.50	45.78	-	-	74.00	-28.22	0	100	H
		9.769	30.92	PKFH	36.90	-21.50	46.32	-	-	74.00	-27.68	0	100	V
2480	DUAL	* 4.96035	38.31	PKFH	34.30	-30.00	42.61	-	-	74.00	-31.39	204	162	H
		* 4.9602	26.63	VA1T	34.30	-30.00	30.93	54.00	-23.07	-	-	204	162	H
		* 4.95944	39.30	PKFH	34.30	-30.00	43.60	-	-	74.00	-30.40	253	116	V
		* 4.96008	28.88	VA1T	34.30	-30.00	33.18	54.00	-20.82	-	-	253	116	V
		* 7.43953	33.76	PKFH	35.70	-25.20	44.26	-	-	74.00	-29.74	207	141	H
		* 7.44036	21.79	VA1T	35.70	-25.20	32.29	54.00	-21.71	-	-	207	141	H
		* 7.43868	33.64	PKFH	35.70	-25.20	44.14	-	-	74.00	-29.86	157	110	V
		* 7.43987	21.90	VA1T	35.70	-25.20	32.40	54.00	-21.60	-	-	157	110	V
		9.922	30.17	PKFH	37.10	-21.30	45.97	-	-	74.00	-28.03	0	100	H
		9.919	29.68	PKFH	37.10	-21.40	45.38	-	-	74.00	-28.62	0	100	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK
 MODULATION
BANDEDGE (WORST CASE: 78 CHANNEL, DUAL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_957_F actor(dB)	10dB_Path Loss(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	57.05	Pk	32.4	-24.8	64.65	-	-	74	-9.35	233	157	H
2	* 2.48355	57.05	Pk	32.4	-24.8	64.65	-	-	74	-9.35	233	157	H
3	* 2.4835	38.01	VA1T	32.4	-24.8	45.61	54	-8.39	-	-	233	157	H
4	* 2.48385	36.68	VA1T	32.4	-24.8	44.28	54	-9.72	-	-	233	157	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE TEST DATA

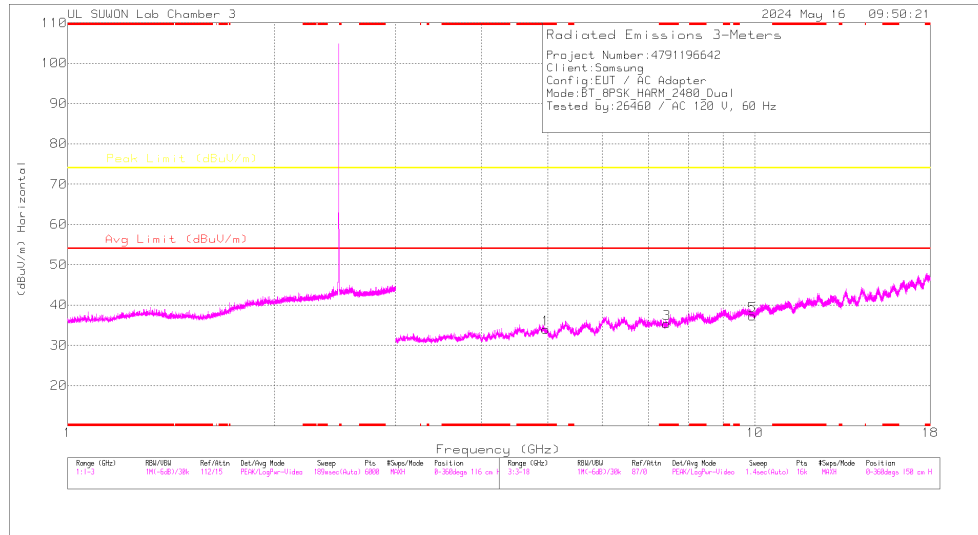
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	41.58	Pk	32.10	-24.80	48.88	-	-	74.00	-25.12	237	141	H
		* 2.34956	44.47	Pk	32.00	-24.90	51.57	-	-	74.00	-22.43	237	141	H
		* 2.39	30.11	VA1T	32.10	-24.80	37.41	54.00	-16.59	-	-	237	141	H
		* 2.33486	30.46	VA1T	31.90	-24.80	37.56	54.00	-16.44	-	-	237	141	H
		* 2.39	41.54	Pk	32.10	-24.80	48.84	-	-	74.00	-25.16	197	392	V
		* 2.33989	44.85	Pk	32.00	-24.90	51.95	-	-	74.00	-22.05	197	392	V
		* 2.39	29.90	VA1T	32.10	-24.80	37.20	54.00	-16.80	-	-	197	392	V
		* 2.38641	30.37	VA1T	32.10	-24.80	37.67	54.00	-16.33	-	-	197	392	V
2480	ANT1	* 2.4835	43.71	Pk	32.40	-24.80	51.31	-	-	74.00	-22.69	236	155	H
		* 2.48356	52.53	Pk	32.40	-24.80	60.13	-	-	74.00	-13.87	236	155	H
		* 2.4835	31.84	VA1T	32.40	-24.80	39.44	54.00	-14.56	-	-	236	155	H
		* 2.48375	32.00	VA1T	32.40	-24.80	39.60	54.00	-14.40	-	-	236	155	H
		* 2.4835	42.49	Pk	32.40	-24.80	50.09	-	-	74.00	-23.91	202	309	V
		* 2.48362	46.02	Pk	32.40	-24.80	53.62	-	-	74.00	-20.38	202	309	V
		* 2.4835	31.07	VA1T	32.40	-24.80	38.67	54.00	-15.33	-	-	202	309	V
		2.560	31.42	VA1T	32.40	-24.70	39.12	54.00	-14.88	-	-	202	309	V
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	41.10	Pk	32.10	-24.80	48.40	-	-	74.00	-25.60	147	354	H
		* 2.37586	44.68	Pk	32.10	-24.90	51.88	-	-	74.00	-22.12	147	354	H
		* 2.39	29.59	VA1T	32.10	-24.80	36.89	54.00	-17.11	-	-	147	354	H
		* 2.38829	30.39	VA1T	32.10	-24.80	37.69	54.00	-16.31	-	-	147	354	H
		* 2.39	40.82	Pk	32.10	-24.80	48.12	-	-	74.00	-25.88	250	304	V
		* 2.32798	44.95	Pk	31.90	-24.90	51.95	-	-	74.00	-22.05	250	304	V
		* 2.39	29.30	VA1T	32.10	-24.80	36.60	54.00	-17.40	-	-	250	304	V
		* 2.3791	30.46	VA1T	32.10	-24.90	37.66	54.00	-16.34	-	-	250	304	V
2480	ANT2	* 2.4835	44.26	Pk	32.40	-24.80	51.86	-	-	74.00	-22.14	33	375	H
		* 2.48351	45.11	Pk	32.40	-24.80	52.71	-	-	74.00	-21.29	33	375	H
		* 2.4835	30.60	VA1T	32.40	-24.80	38.20	54.00	-15.80	-	-	33	375	H
		2.557	31.36	VA1T	32.40	-24.70	39.06	54.00	-14.94	-	-	33	375	H
		* 2.4835	47.33	Pk	32.40	-24.80	54.93	-	-	74.00	-19.07	250	284	V
		* 2.48363	47.90	Pk	32.40	-24.80	55.50	-	-	74.00	-18.50	250	284	V
		* 2.4835	30.99	VA1T	32.40	-24.80	38.59	54.00	-15.41	-	-	250	284	V
		* 2.48355	31.56	VA1T	32.40	-24.80	39.16	54.00	-14.84	-	-	250	284	V
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	42.01	Pk	32.10	-24.80	49.31	-	-	74.00	-24.69	249	117	H
		* 2.38587	45.55	Pk	32.10	-24.90	52.75	-	-	74.00	-21.25	249	117	H
		* 2.39	29.29	VA1T	32.10	-24.80	36.59	54.00	-17.41	-	-	249	117	H
		* 2.38695	30.35	VA1T	32.10	-24.80	37.65	54.00	-16.35	-	-	249	117	H
		* 2.39	40.53	Pk	32.10	-24.80	47.83	-	-	74.00	-26.17	47	378	V
		* 2.38444	44.34	Pk	32.10	-24.90	51.54	-	-	74.00	-22.46	47	378	V
		* 2.39	29.75	VA1T	32.10	-24.80	37.05	54.00	-16.95	-	-	47	378	V
		* 2.38821	30.37	VA1T	32.10	-24.80	37.67	54.00	-16.33	-	-	47	378	V
2480	DUAL	* 2.4835	57.05	Pk	32.40	-24.80	64.65	-	-	74.00	-9.35	233	157	H
		* 2.48355	57.05	Pk	32.40	-24.80	64.65	-	-	74.00	-9.35	233	157	H
		* 2.4835	38.01	VA1T	32.40	-24.80	45.61	54.00	-8.39	-	-	233	157	H
		* 2.48385	36.68	VA1T	32.40	-24.80	44.28	54.00	-9.72	-	-	233	157	H
		* 2.4835	53.67	Pk	32.40	-24.80	61.27	-	-	74.00	-12.73	41	358	V
		* 2.48353	53.86	Pk	32.40	-24.80	61.46	-	-	74.00	-12.54	41	358	V
		* 2.4835	36.01	VA1T	32.40	-24.80	43.61	54.00	-10.39	-	-	41	358	V
		* 2.48353	36.08	VA1T	32.40	-24.80	43.68	54.00	-10.32	-	-	41	358	V

Note1. Pk - Peak detector, VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

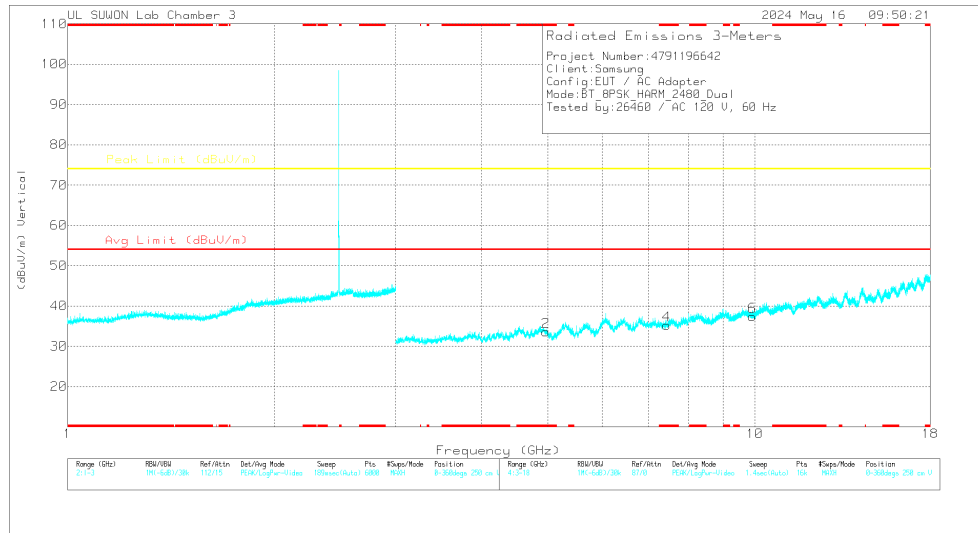
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE – DUAL MODE)

78 CHANNEL 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)	3GHz_HP_Pat h Loss(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96164	37.4	PKFH	34.3	-30.1	41.6	-	-	74	-32.4	204	162	H
* 4.96047	25.12	VA1T	34.3	-30	29.42	54	-24.58	-	-	204	162	H
* 4.96068	38.89	PKFH	34.3	-30	43.19	-	-	74	-30.81	253	116	V
* 4.95981	26.03	VA1T	34.3	-30	30.33	54	-23.67	-	-	253	116	V
* 7.43625	32.85	PKFH	35.7	-25.2	43.35	-	-	74	-30.65	207	142	H
* 7.43927	20.66	VA1T	35.7	-25.2	31.16	54	-22.84	-	-	207	142	H
* 7.44007	34.02	PKFH	35.7	-25.2	44.52	-	-	74	-29.48	157	110	V
* 7.43941	20.96	VA1T	35.7	-25.2	31.46	54	-22.54	-	-	157	110	V
9.92736	30.54	PKFH	37.2	-21.4	46.34	-	-	74	-27.66	0	100	H
9.92401	30.43	PKFH	37.1	-21.4	46.13	-	-	74	-27.87	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	* 4.80386	38.83	PKFH	34.30	-30.10	43.03	-	-	74.00	-30.97	202	100	H
		* 4.80418	25.62	VA1T	34.30	-30.10	29.82	54.00	-24.18	-	-	202	100	H
		* 4.80306	38.39	PKFH	34.30	-30.10	42.59	-	-	74.00	-31.41	213	100	V
		* 4.80401	25.56	VA1T	34.30	-30.10	29.76	54.00	-24.24	-	-	213	100	V
		7.203	34.07	PKFH	35.80	-25.80	44.07	-	-	74.00	-29.93	0	100	H
		7.202	33.60	PKFH	35.80	-25.80	43.60	-	-	74.00	-30.40	0	100	V
		9.610	31.75	PKFH	36.70	-21.70	46.75	-	-	74.00	-27.25	0	100	H
		9.607	31.17	PKFH	36.70	-21.80	46.07	-	-	74.00	-27.93	0	100	V
2441	ANT1	* 4.87743	37.87	PKFH	34.20	-29.90	42.17	-	-	74.00	-31.83	318	113	H
		* 4.8818	26.18	VA1T	34.20	-30.00	30.38	54.00	-23.62	-	-	318	113	H
		* 4.87901	38.80	PKFH	34.20	-29.90	43.10	-	-	74.00	-30.90	152	100	V
		* 4.88178	26.30	VA1T	34.20	-30.00	30.50	54.00	-23.50	-	-	152	100	V
		* 7.32149	33.81	PKFH	35.80	-25.50	44.11	-	-	74.00	-29.89	186	101	H
		* 7.32085	20.66	VA1T	35.80	-25.50	30.96	54.00	-23.04	-	-	186	101	H
		* 7.32456	32.98	PKFH	35.80	-25.50	43.28	-	-	74.00	-30.72	269	246	V
		* 7.32244	20.77	VA1T	35.80	-25.50	31.07	54.00	-22.93	-	-	269	246	V
		9.765	30.24	PKFH	36.90	-21.50	45.64	-	-	74.00	-28.36	0	100	H
		9.761	31.09	PKFH	36.90	-21.50	46.49	-	-	74.00	-27.51	0	100	V
2480	ANT1	* 4.95948	37.98	PKFH	34.30	-30.00	42.28	-	-	74.00	-31.72	309	100	H
		* 4.9602	26.01	VA1T	34.30	-30.00	30.31	54.00	-23.69	-	-	309	100	H
		* 4.95938	38.00	PKFH	34.30	-30.00	42.30	-	-	74.00	-31.70	157	100	V
		* 4.95979	26.41	VA1T	34.30	-30.00	30.71	54.00	-23.29	-	-	157	100	V
		* 7.43778	33.10	PKFH	35.70	-25.20	43.60	-	-	74.00	-30.40	196	100	H
		* 7.43633	20.60	VA1T	35.70	-25.20	31.10	54.00	-22.90	-	-	196	100	H
		* 7.44191	33.83	PKFH	35.70	-25.20	44.33	-	-	74.00	-29.67	333	100	V
		* 7.44337	20.57	VA1T	35.70	-25.20	31.07	54.00	-22.93	-	-	333	100	V
		9.918	30.26	PKFH	37.10	-21.30	46.06	-	-	74.00	-27.94	0	100	H
		9.925	30.62	PKFH	37.10	-21.30	46.42	-	-	74.00	-27.58	0	100	V
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [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	* 4.8033	37.34	PKFH	34.30	-30.10	41.54	-	-	74.00	-32.46	0	100	H
		* 4.80354	37.65	PKFH	34.30	-30.10	41.85	-	-	74.00	-32.15	0	100	V
		7.205	34.00	PKFH	35.80	-25.90	43.90	-	-	74.00	-30.10	0	100	H
		7.206	33.38	PKFH	35.80	-25.90	43.28	-	-	74.00	-30.72	0	100	V
		9.608	31.53	PKFH	36.70	-21.70	46.53	-	-	74.00	-27.47	0	100	H
		9.607	31.03	PKFH	36.70	-21.80	45.93	-	-	74.00	-28.07	0	100	V
2441	ANT2	* 4.88118	37.48	PKFH	34.20	-29.90	41.78	-	-	74.00	-32.22	0	100	H
		* 4.88066	38.42	PKFH	34.20	-29.90	42.72	-	-	74.00	-31.28	0	100	V
		* 7.3225	33.59	PKFH	35.80	-25.50	43.89	-	-	74.00	-30.11	0	100	H
		* 7.32191	33.02	PKFH	35.80	-25.50	43.32	-	-	74.00	-30.68	0	100	V
		9.764	30.55	PKFH	36.90	-21.50	45.95	-	-	74.00	-28.05	0	100	H
		9.763	31.25	PKFH	36.90	-21.50	46.65	-	-	74.00	-27.35	0	100	V
2480	ANT2	* 4.95892	37.18	PKFH	34.30	-30.00	41.48	-	-	74.00	-32.52	0	100	H
		* 4.96127	37.50	PKFH	34.30	-30.00	41.80	-	-	74.00	-32.20	0	100	V
		* 7.43963	33.32	PKFH	35.70	-25.20	43.82	-	-	74.00	-30.18	0	100	H
		* 7.43984	32.69	PKFH	35.70	-25.20	43.19	-	-	74.00	-30.81	0	100	V
		9.921	30.10	PKFH	37.10	-21.30	45.90	-	-	74.00	-28.10	0	100	H
		9.919	29.30	PKFH	37.10	-21.40	45.00	-	-	74.00	-29.00	0	100	V

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	MIMO	* 4.80578	37.06	PKFH	34.30	-30.10	41.26	-	-	74.00	-32.74	0	100	H
		* 4.80353	37.49	PKFH	34.30	-30.10	41.69	-	-	74.00	-32.31	0	100	V
		* 7.206	35.23	PKFH	35.80	-25.90	45.13	-	-	74.00	-28.87	353	115	H
		* 7.205	33.94	PKFH	35.80	-25.90	43.84	-	-	74.00	-30.16	171	106	V
		* 9.605	32.09	PKFH	36.70	-21.70	47.09	-	-	74.00	-26.91	0	100	H
		* 9.608	32.02	PKFH	36.70	-21.70	47.02	-	-	74.00	-26.98	0	100	V
2441	MIMO	* 4.88329	39.98	PKFH	34.20	-29.90	44.28	-	-	74.00	-29.72	295	251	H
		* 4.88196	25.31	VA1T	34.20	-30.00	29.51	54.00	-24.49	-	-	295	251	H
		* 4.87822	37.81	PKFH	34.20	-29.90	42.11	-	-	74.00	-31.89	297	100	V
		* 4.87755	25.27	VA1T	34.20	-29.90	29.57	54.00	-24.43	-	-	297	100	V
		* 7.32576	33.31	PKFH	35.80	-25.50	43.61	-	-	74.00	-30.39	203	121	H
		* 7.32298	20.81	VA1T	35.80	-25.50	31.11	54.00	-22.89	-	-	203	121	H
		* 7.32275	33.05	PKFH	35.80	-25.50	43.35	-	-	74.00	-30.65	264	100	V
		* 7.32268	21.03	VA1T	35.80	-25.50	31.33	54.00	-22.67	-	-	264	100	V
		* 9.768	30.44	PKFH	36.90	-21.50	45.84	-	-	74.00	-28.16	0	100	H
		* 9.764	30.70	PKFH	36.90	-21.50	46.10	-	-	74.00	-27.90	0	100	V
2480	MIMO	* 4.96164	37.40	PKFH	34.30	-30.10	41.60	-	-	74.00	-32.40	204	162	H
		* 4.96047	25.12	VA1T	34.30	-30.00	29.42	54.00	-24.58	-	-	204	162	H
		* 4.96068	38.89	PKFH	34.30	-30.00	43.19	-	-	74.00	-30.81	253	116	V
		* 4.95981	26.03	VA1T	34.30	-30.00	30.33	54.00	-23.67	-	-	253	116	V
		* 7.43625	32.85	PKFH	35.70	-25.20	43.35	-	-	74.00	-30.65	207	142	H
		* 7.43927	20.66	VA1T	35.70	-25.20	31.16	54.00	-22.84	-	-	207	142	H
		* 7.44007	34.02	PKFH	35.70	-25.20	44.52	-	-	74.00	-29.48	157	110	V
		* 7.43941	20.96	VA1T	35.70	-25.20	31.46	54.00	-22.54	-	-	157	110	V
		* 9.927	30.54	PKFH	37.20	-21.40	46.34	-	-	74.00	-27.66	0	100	H
		* 9.924	30.43	PKFH	37.10	-21.40	46.13	-	-	74.00	-27.87	0	100	V

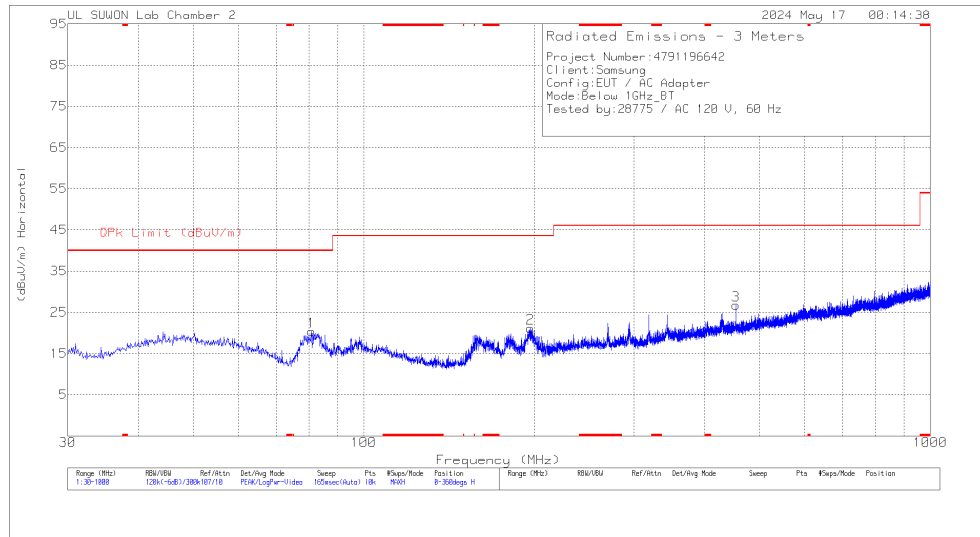
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

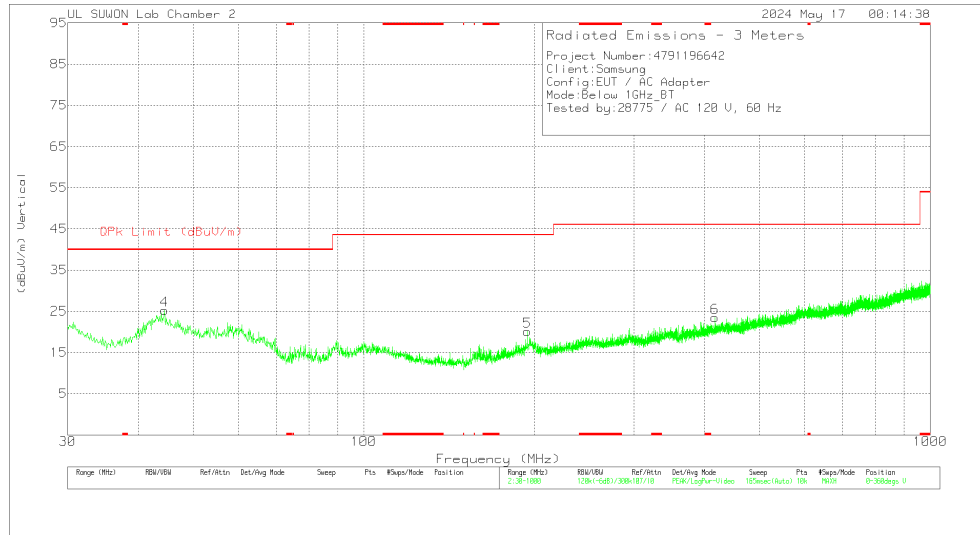
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.2. 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_749_Fact or(dB)	Below_1G_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	80.828	38.8	Pk	13	-31.4	20.4	40	-19.6	0-360	100	H
2	196.937	33.79	Pk	18	-30.6	21.19	43.52	-22.33	0-360	100	H
3	453.793	34.47	Pk	21.9	-29.6	26.77	46.02	-19.25	0-360	100	H
4	44.453	37.29	Pk	19.7	-31.8	25.19	40	-14.81	0-360	100	V
5	194.318	33.51	Pk	17.2	-30.6	20.11	43.52	-23.41	0-360	100	V
6	416.739	31.56	Pk	21.6	-29.7	23.46	46.02	-22.56	0-360	100	V

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 C63.10:2013.

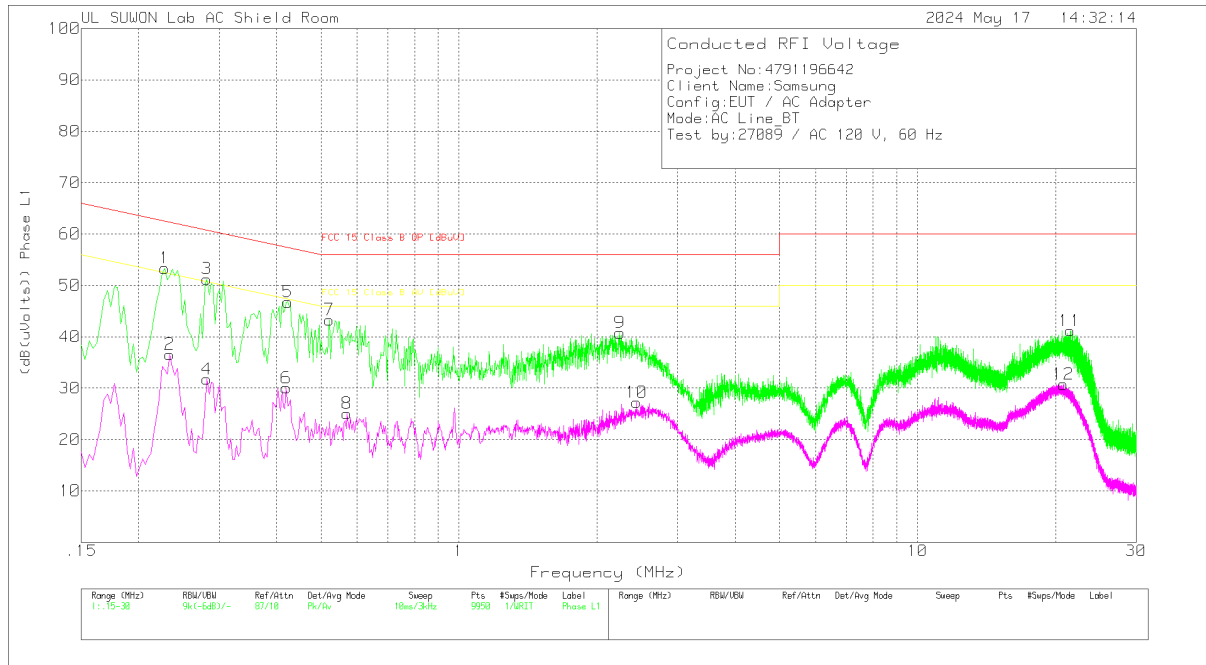
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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 (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.228	43.55	Pk	9.7	.1	53.35	62.52	-9.17	-	-
2	.234	26.78	Av	9.7	.1	36.58	-	-	52.31	-15.73
3	.282	41.46	Pk	9.7	.1	51.26	60.76	-9.5	-	-
4	.282	21.96	Av	9.7	.1	31.76	-	-	50.76	-19
5	.423	36.86	Pk	9.8	.1	46.76	57.39	-10.63	-	-
6	.42	20.14	Av	9.8	.1	30.04	-	-	47.45	-17.41
7	.522	33.27	Pk	9.9	.1	43.27	56	-12.73	-	-
8	.57	15.15	Av	9.8	.1	25.05	-	-	46	-20.95
9	2.244	30.97	Pk	9.7	.1	40.77	56	-15.23	-	-
10	2.439	17.41	Av	9.7	.1	27.21	-	-	46	-18.79
11	21.51	30.67	Pk	10.2	.3	41.17	60	-18.83	-	-
12	20.781	20.23	Av	10.2	.3	30.73	-	-	50	-19.27

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

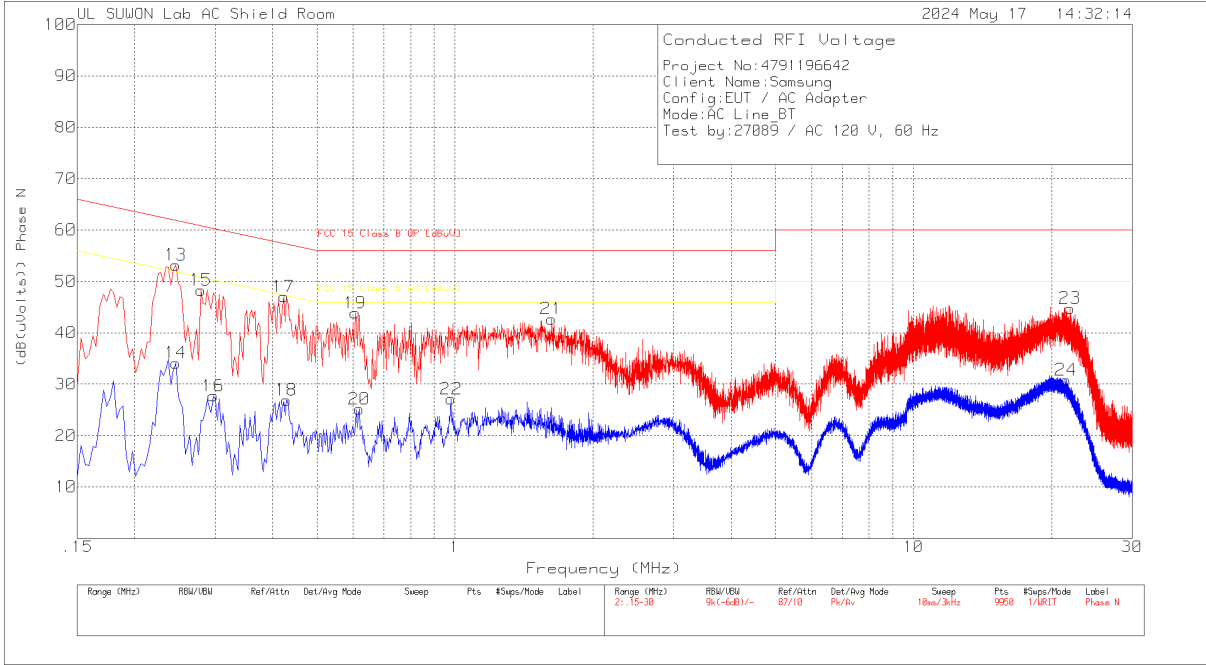
Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.22725	34.14	Qp	9.7	.1	43.94	62.55	-18.61	-	-
.28125	28.55	Qp	9.7	.1	38.35	60.78	-22.43	-	-

Qp - Quasi-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]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.246	43.48	Pk	9.6	.1	53.18	61.89	-8.71	-	-
14	.246	24.43	Av	9.6	.1	34.13	-	-	51.89	-17.76
15	.279	38.5	Pk	9.7	.1	48.3	60.85	-12.55	-	-
16	.297	17.9	Av	9.7	.1	27.7	-	-	50.33	-22.63
17	.423	37.15	Pk	9.8	.1	47.05	57.39	-10.34	-	-
18	.429	16.99	Av	9.8	.1	26.89	-	-	47.27	-20.38
19	.606	33.96	Pk	9.8	.1	43.86	56	-12.14	-	-
20	.618	15.25	Av	9.8	.1	25.15	-	-	46	-20.85
21	1.623	32.91	Pk	9.7	.1	42.71	56	-13.29	-	-
22	.981	17.2	Av	9.8	.1	27.1	-	-	46	-18.9
23	21.939	34.06	Pk	10.4	.3	44.76	60	-15.24	-	-
24	21.516	20.2	Av	10.3	.3	30.8	-	-	50	-19.2

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.24675	38.97	Qp	9.6	.1	48.67	61.87	-13.2	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT