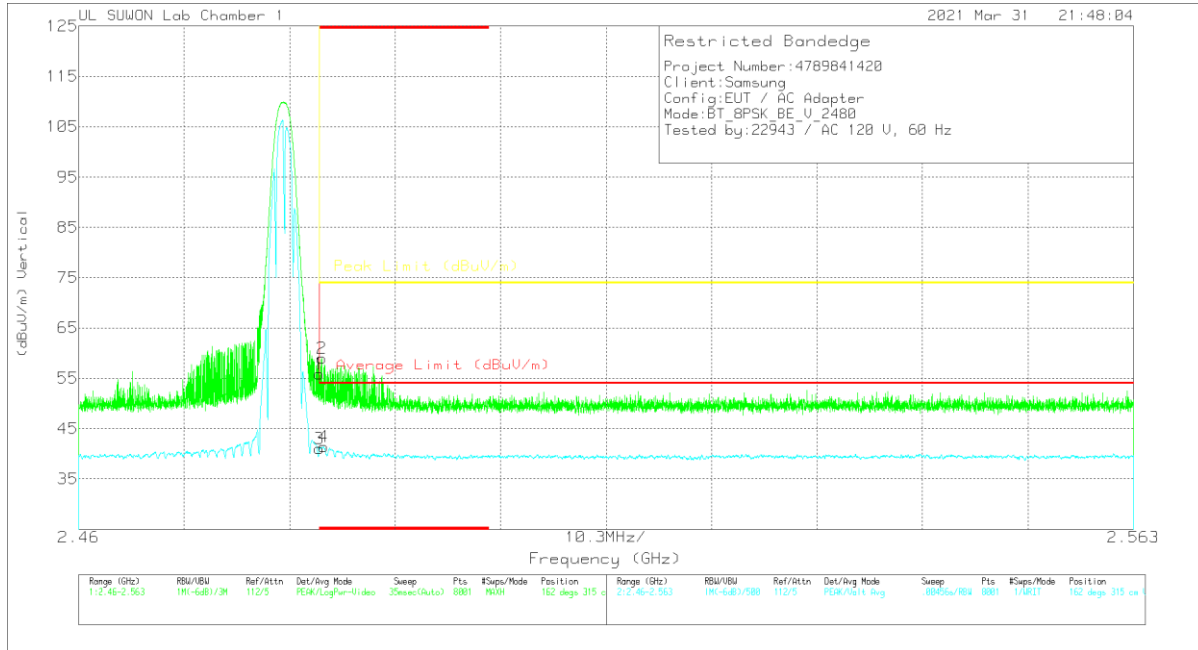


VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[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	49.22	Pk	32	-25.3	55.92	-	-	74	-18.08	162	315	V
2	* 2.48373	52.26	Pk	32	-25.3	58.96	-	-	74	-15.04	162	315	V
3	* 2.48351	34.37	VA1T	32	-25.3	41.07	54	-12.93	-	-	162	315	V
4	* 2.48393	34.67	VA1T	32	-25.3	41.37	54	-12.63	-	-	162	315	V

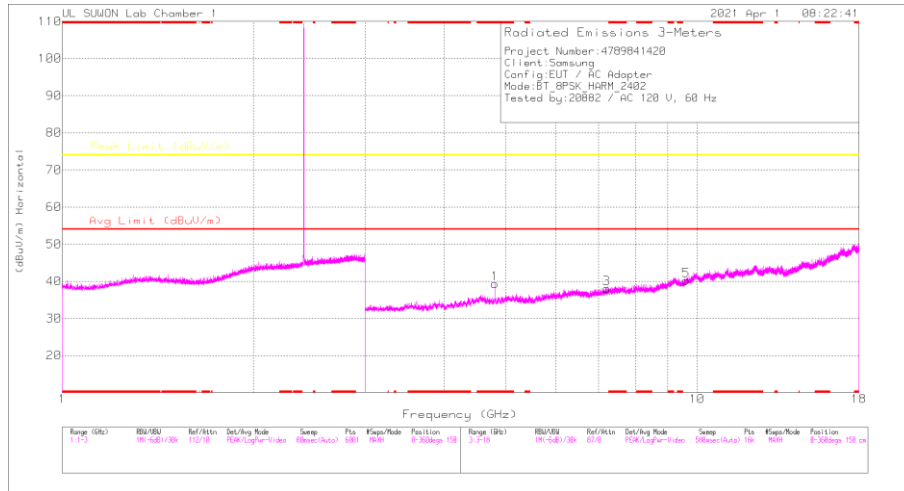
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

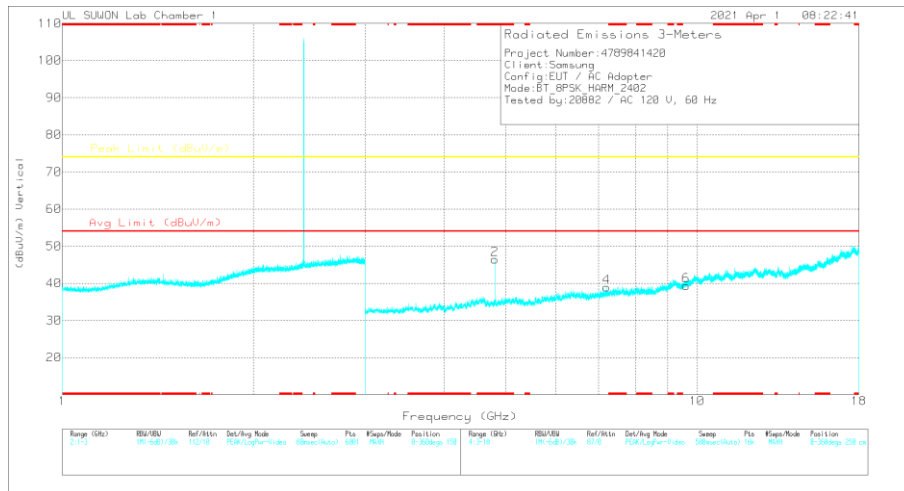
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

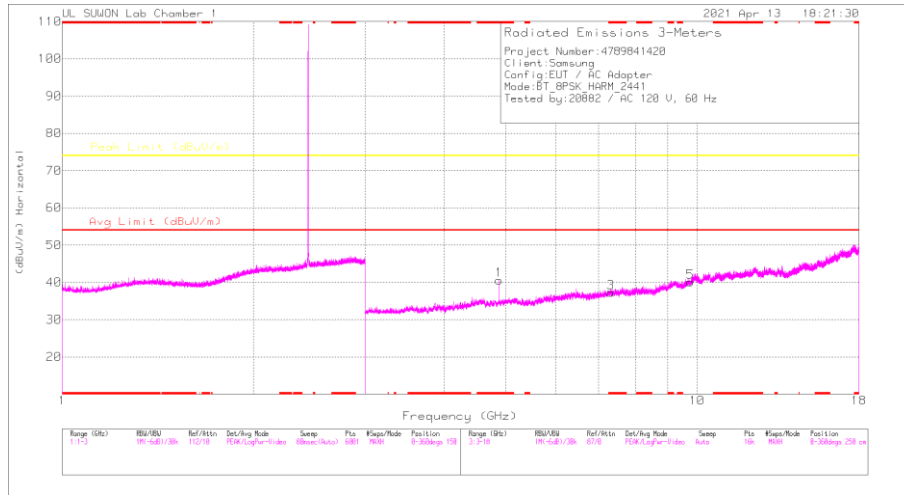
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP[dB]	Ant Gain [dBi]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80432	45.22	PKFH	34.1	-31.5	0	47.82	-	-	74	-26.18	69	144	H
* 4.80403	37.14	VA1T	34.1	-31.5	0	39.74	54	-14.26	-	-	69	144	H
* 4.80414	47.44	PKFH	34.1	-31.5	0	50.04	-	-	74	-23.96	38	145	V
* 4.80405	39.58	VA1T	34.1	-31.5	0	42.18	54	-11.82	-	-	38	145	V
7.20387	36.47	PKFH	35.9	-27.7	0	44.67	-	-	74	-29.33	0	100	H
7.20164	35.5	PKFH	35.9	-27.6	0	43.8	-	-	74	-30.2	0	100	V
9.60935	33.87	PKFH	37.1	-23	0	47.97	-	-	74	-26.03	0	100	H
9.61189	33.43	PKFH	37.1	-23.1	0	47.43	-	-	74	-26.57	0	100	V

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

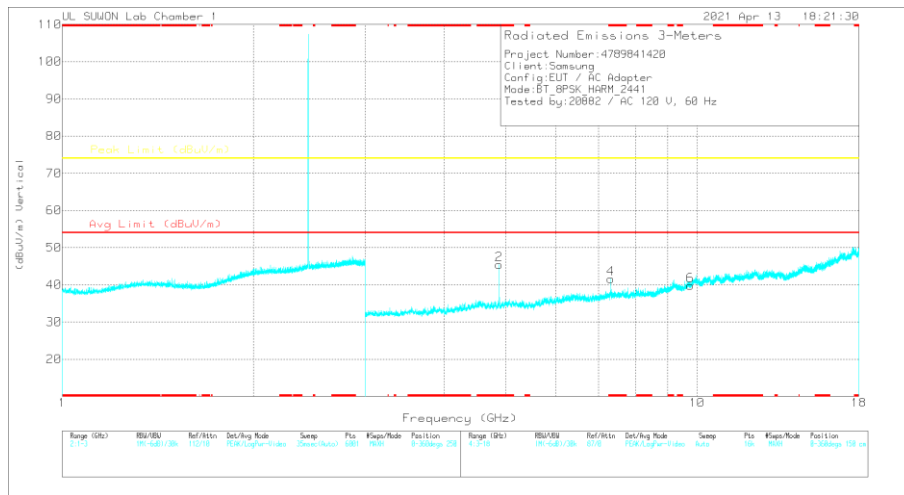
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

39 CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

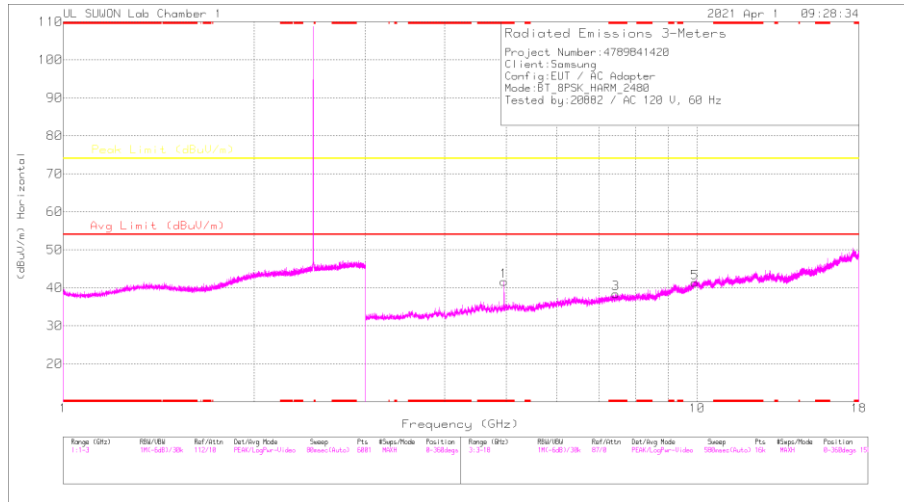
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP[dB]	Ant Gain [dBi]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88205	45.57	PKFH	34.1	-31.3	0	48.37	-	-	74	-25.63	58	142	H
* 4.88211	36.86	VA1T	34.1	-31.3	0	39.66	54	-14.34	-	-	58	142	H
* 4.88242	46.18	PKFH	34.1	-31.4	0	48.88	-	-	74	-25.12	18	125	V
* 4.8821	38.25	VA1T	34.1	-31.3	0	41.05	54	-12.95	-	-	18	125	V
* 7.32311	37.5	PKFH	35.8	-27.3	0	46	-	-	74	-28	61	134	H
* 7.32326	27.42	VA1T	35.8	-27.3	0	35.92	54	-18.08	-	-	61	134	H
* 7.3228	41.82	PKFH	35.8	-27.3	0	50.32	-	-	74	-23.68	165	232	V
* 7.32309	31.27	VA1T	35.8	-27.3	0	39.77	54	-14.23	-	-	165	232	V
9.76563	34.01	PKFH	37.4	-23.7	0	47.71	-	-	74	-26.29	0	100	H
9.76512	33.37	PKFH	37.4	-23.7	0	47.07	-	-	74	-26.93	0	100	V

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

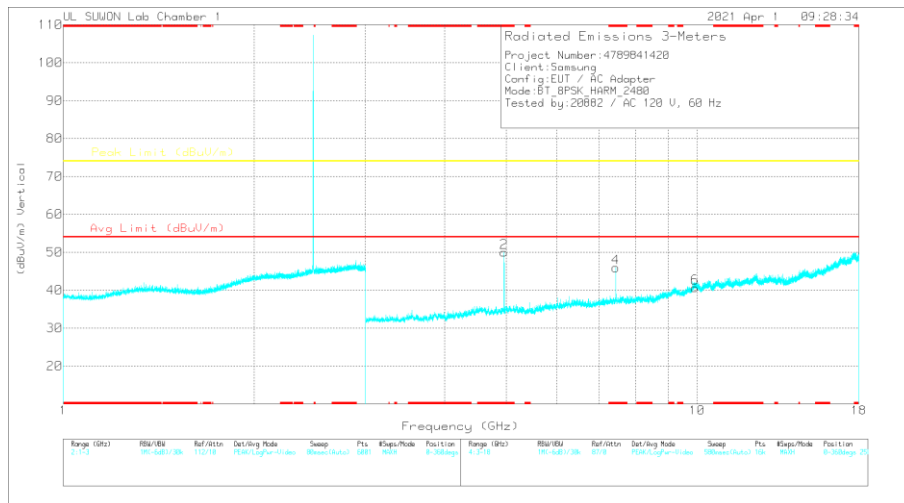
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

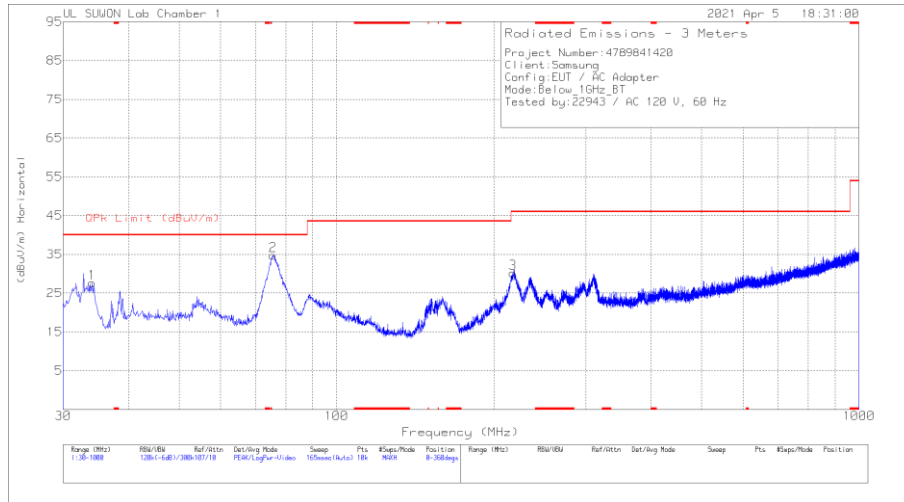
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP[dB]	Ant Gain [dBi]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.95992	45.58	PKFH	34.1	-31.4	0	48.28	-	-	74	-25.72	202	148	H
* 4.95994	38.22	VA1T	34.1	-31.4	0	40.92	54	-13.08	-	-	202	148	H
* 4.95973	50.05	PKFH	34.1	-31.4	0	52.75	-	-	74	-21.25	154	145	V
* 4.95996	43.67	VA1T	34.1	-31.4	0	46.37	54	-7.63	-	-	154	145	V
* 7.43949	41.85	PKFH	35.8	-26.8	0	50.85	-	-	74	-23.15	192	319	H
* 7.43996	31.22	VA1T	35.8	-26.8	0	40.22	54	-13.78	-	-	192	319	H
* 7.43993	46.32	PKFH	35.8	-26.8	0	55.32	-	-	74	-18.68	89	229	V
* 7.44009	36.28	VA1T	35.8	-26.8	0	45.28	54	-8.72	-	-	89	229	V
9.91995	32.37	PKFH	37.7	-21.6	0	48.47	-	-	74	-25.53	0	100	H
9.91828	32.51	PKFH	37.7	-21.6	0	48.61	-	-	74	-25.39	0	100	V

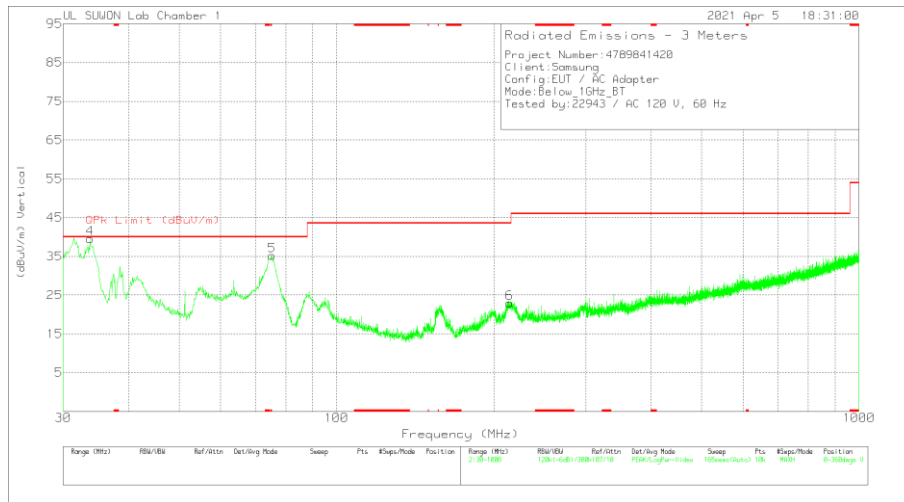
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.2. WORST CASE BELOW 1 GHZ

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



HORIZONTAL



VERTICAL

Below 1GHz Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	34.074	42.34	Pk	16.2	-30.9	27.64	40	-12.36	0-360	300	H
2	75.59	51.55	Pk	13.2	-30	34.75	40	-5.25	0-360	200	H
3	217.598	41.5	Pk	17	-28.3	30.2	46.02	-15.82	0-360	200	H
4	33.783	54.26	Pk	16.1	-30.8	39.56	40	-4.44	0-360	100	V
5	75.299	51.79	Pk	13.3	-29.9	35.19	40	-4.81	0-360	100	V
6	214.397	34.46	Pk	16.8	-28.3	22.96	43.52	-20.56	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
33.783	49.16	Qp	16.1	-30.8	34.46	40	-5.54	349	100	V

Qp - Quasi-Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

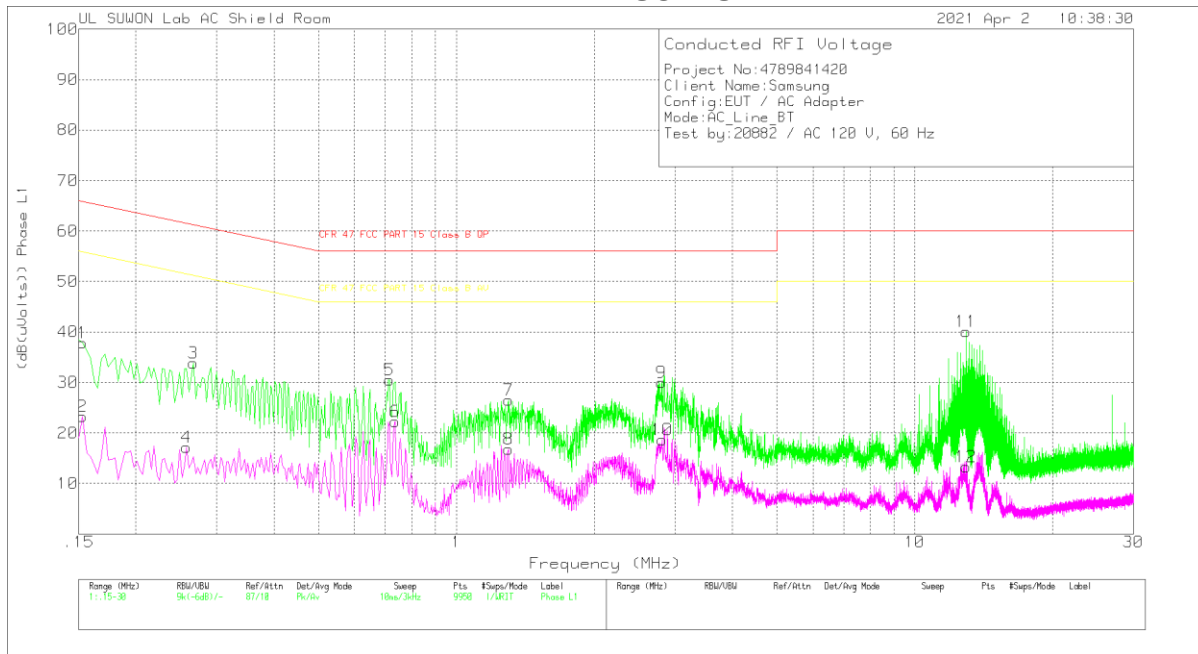
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line

LINE 1 RESULTS



Trace Markers

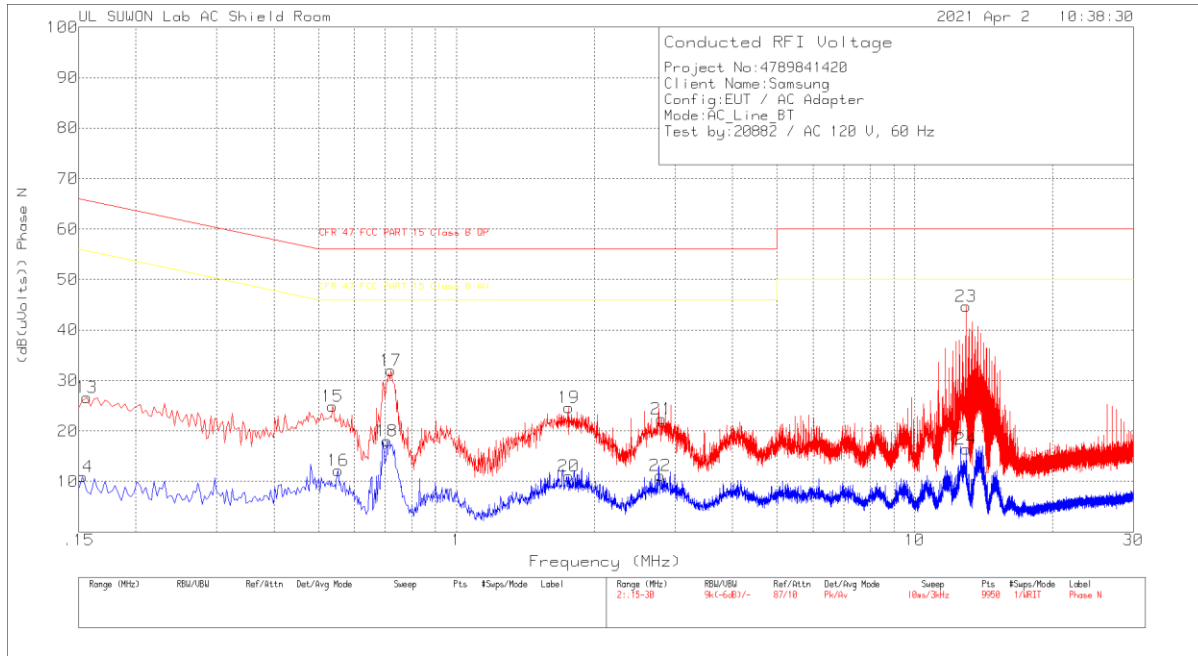
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wfith EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.153	27.96	Pk	9.8	.1	37.86	65.84	-27.98	-	-
2	.153	13.33	Av	9.8	.1	23.23	-	-	55.84	-32.61
3	.267	23.98	Pk	9.7	.2	33.88	61.21	-27.33	-	-
4	.258	7.25	Av	9.7	.2	17.15	-	-	51.5	-34.35
5	.714	20.42	Pk	9.9	.2	30.52	56	-25.48	-	-
6	.735	12.14	Av	9.9	.2	22.24	-	-	46	-23.76
7	1.299	16.45	Pk	9.8	.3	26.55	56	-29.45	-	-
8	1.299	6.67	Av	9.8	.3	16.77	-	-	46	-29.23
9	2.802	20.03	Pk	9.7	.3	30.03	56	-25.97	-	-
10	2.808	8.69	Av	9.7	.3	18.69	-	-	46	-27.31
11	12.924	29.71	Pk	10	.4	40.11	60	-19.89	-	-
12	12.924	2.94	Av	10	.4	13.34	-	-	50	-36.66

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.156	16.66	Pk	9.9	.1	26.66	65.67	-39.01	-	-
14	.153	1.08	Av	9.8	.1	10.98	-	-	55.84	-44.86
15	.537	14.8	Pk	9.9	.2	24.9	56	-31.1	-	-
16	.552	2.09	Av	9.9	.2	12.19	-	-	46	-33.81
17	.72	21.89	Pk	9.9	.2	31.99	56	-24.01	-	-
18	.705	7.9	Av	9.9	.2	18	-	-	46	-28
19	1.761	14.57	Pk	9.8	.3	24.67	56	-31.33	-	-
20	1.761	.9	Av	9.8	.3	11	-	-	46	-35
21	2.799	12.33	Pk	9.8	.3	22.43	56	-33.57	-	-
22	2.784	1.03	Av	9.8	.3	11.13	-	-	46	-34.87
23	12.936	34.31	Pk	10	.4	44.71	60	-15.29	-	-
24	12.93	5.96	Av	10	.4	16.36	-	-	50	-33.64

Pk - Peak detector

Av - Average detection

END OF TEST REPORT