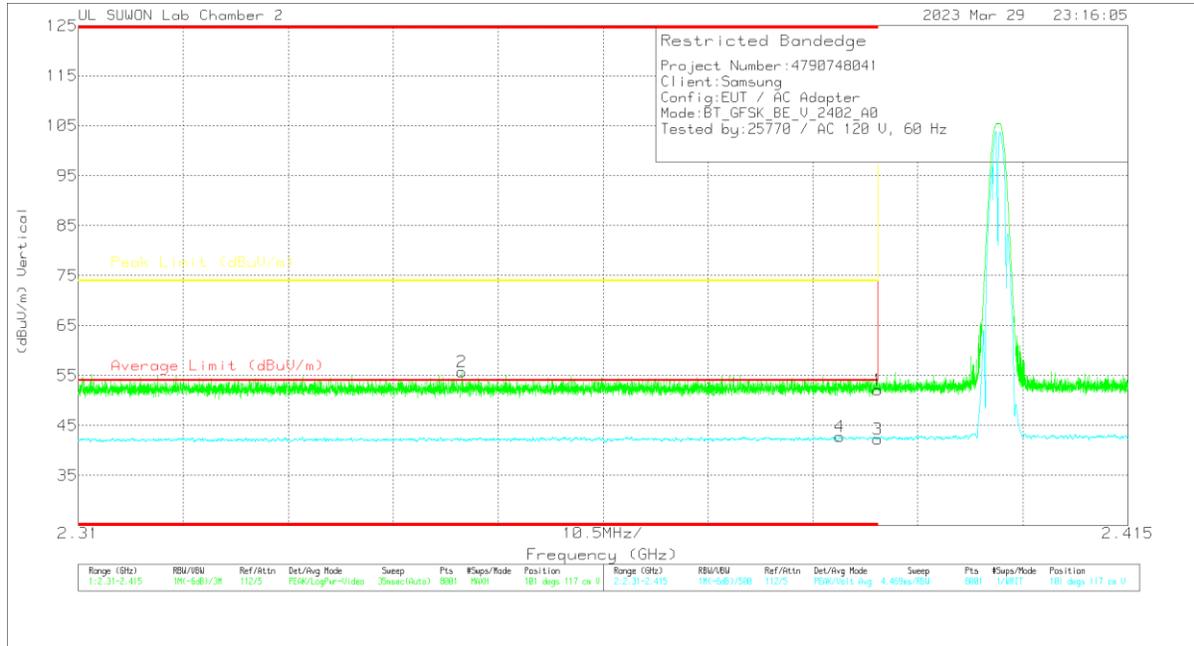


VERTICAL RESULT

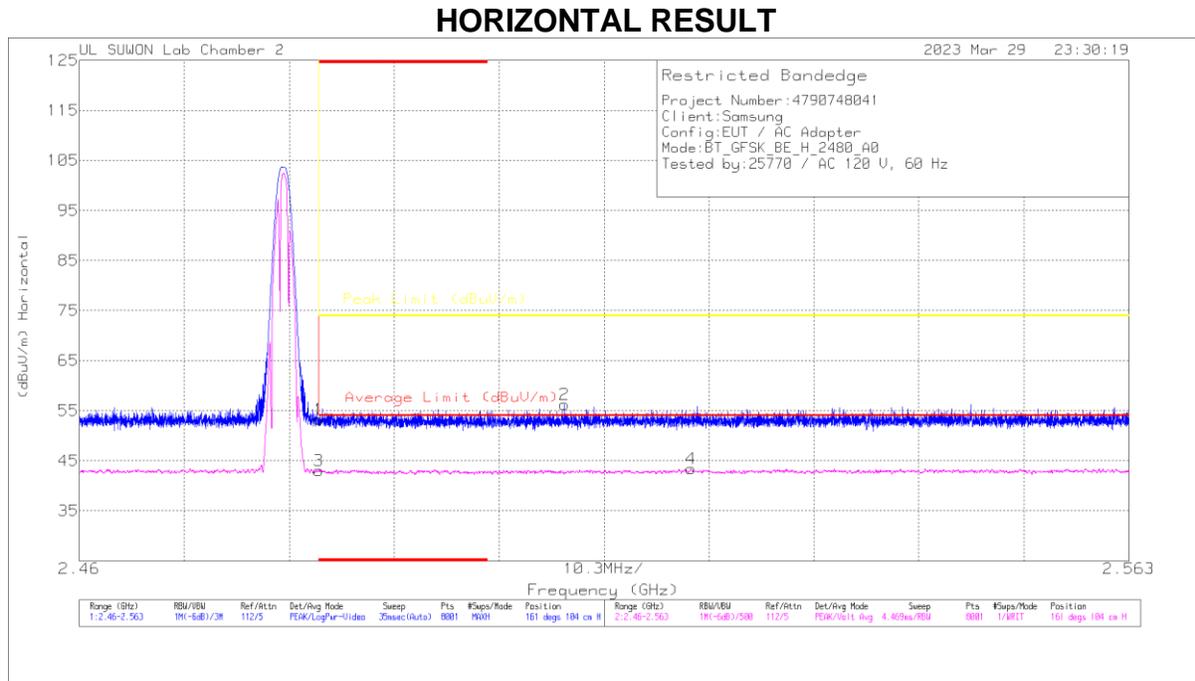


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	40.22	Pk	31.7	-19.8	52.12	-	-	74	-21.88	101	117	V
2	* 2.34839	44.06	Pk	31.6	-19.9	55.76	-	-	74	-18.24	101	117	V
3	* 2.39	30.35	VA1T	31.7	-19.8	42.25	54	-11.75	-	-	101	117	V
4	* 2.38619	30.9	VA1T	31.7	-19.8	42.8	54	-11.2	-	-	101	117	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

BANDEDGE (78 CHANNEL)

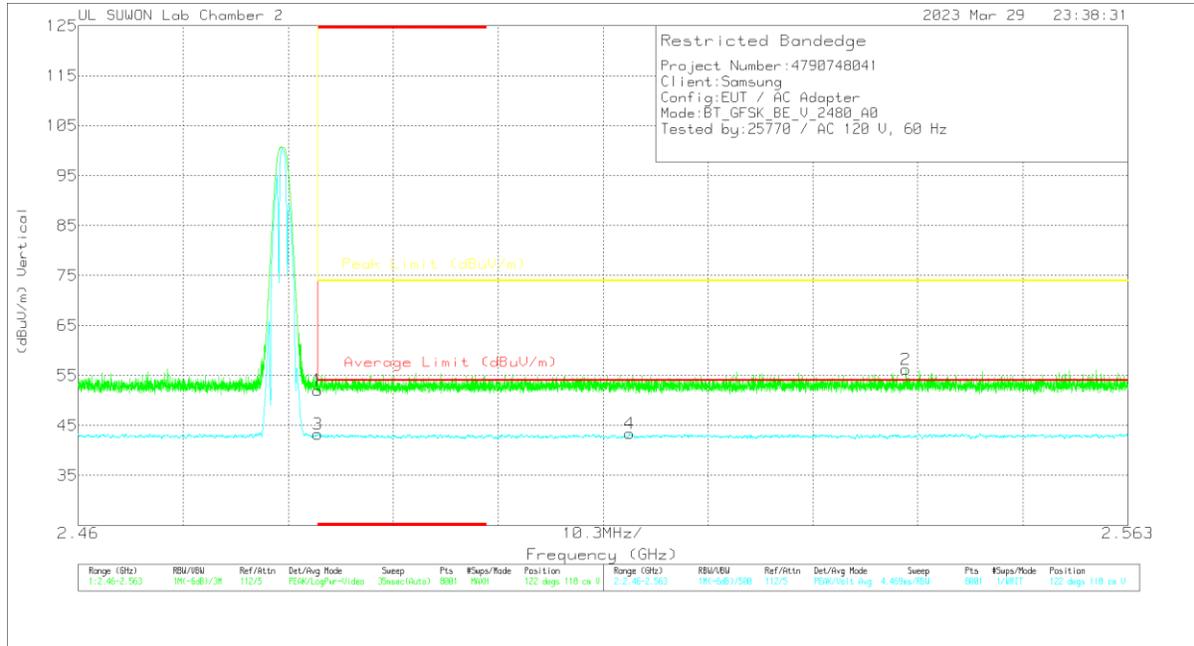


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	40.92	Pk	31.9	-19.6	53.22	-	-	74	-20.78	161	104	H
2	2.50762	43.84	Pk	31.9	-19.5	56.24	-	-	74	-17.76	161	104	H
3	* 2.48351	30.77	VA1T	31.9	-19.6	43.07	54	-10.93	-	-	161	104	H
4	2.52002	30.93	VA1T	31.9	-19.4	43.43	54	-10.57	-	-	161	104	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

VERTICAL RESULT



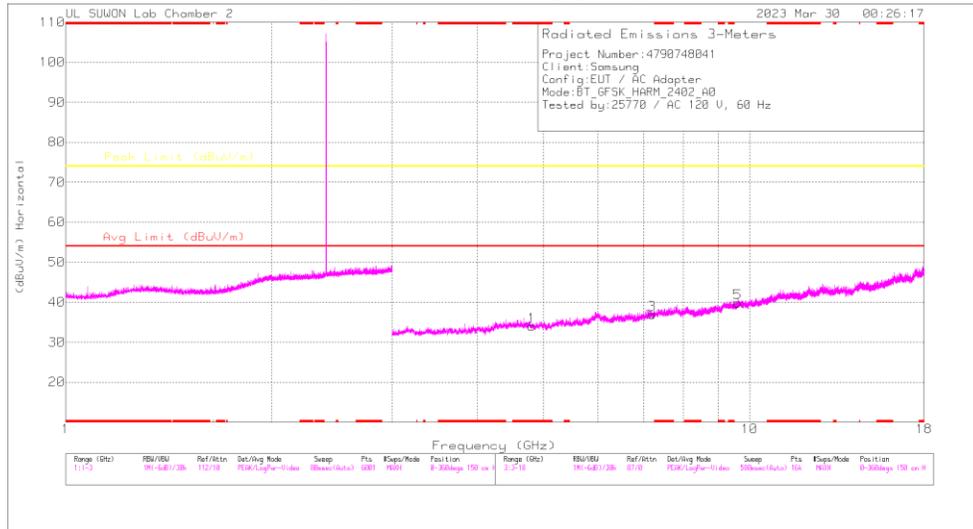
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	39.76	Pk	31.9	-19.6	52.06	-	-	74	-21.94	122	118	V
2	2.54123	43.79	Pk	32	-19.5	56.29	-	-	74	-17.71	122	118	V
3	* 2.48351	30.93	VA1T	31.9	-19.6	43.23	54	-10.77	-	-	122	118	V
4	2.5141	31.14	VA1T	31.9	-19.6	43.44	54	-10.56	-	-	122	118	V

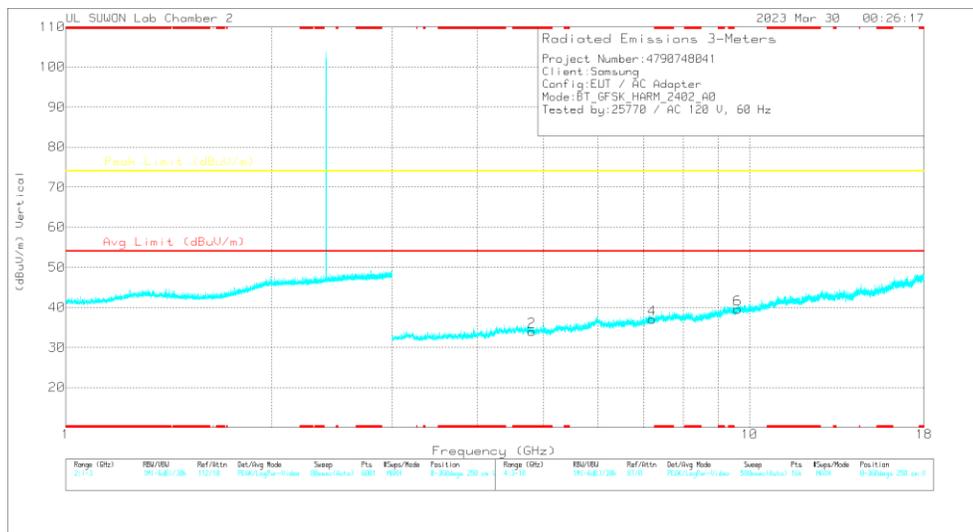
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



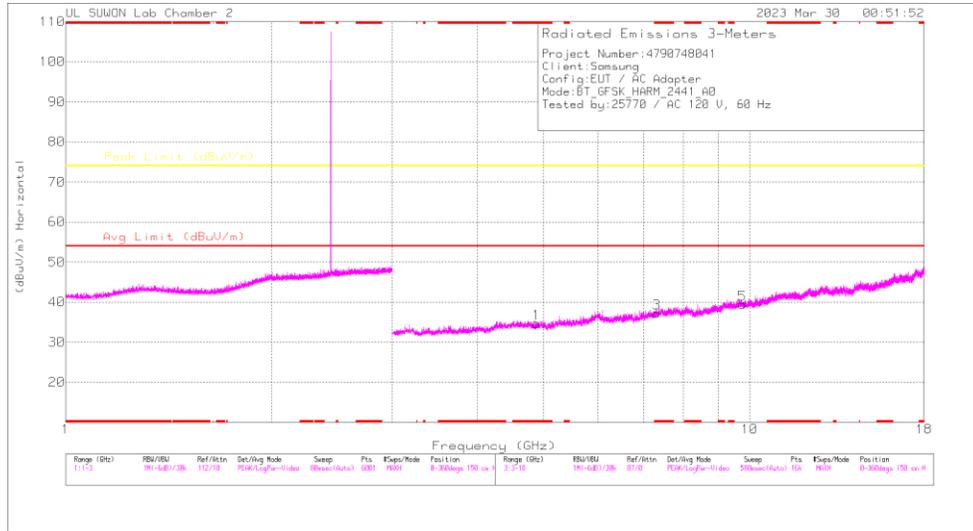
VERTICAL

Radiated Emissions

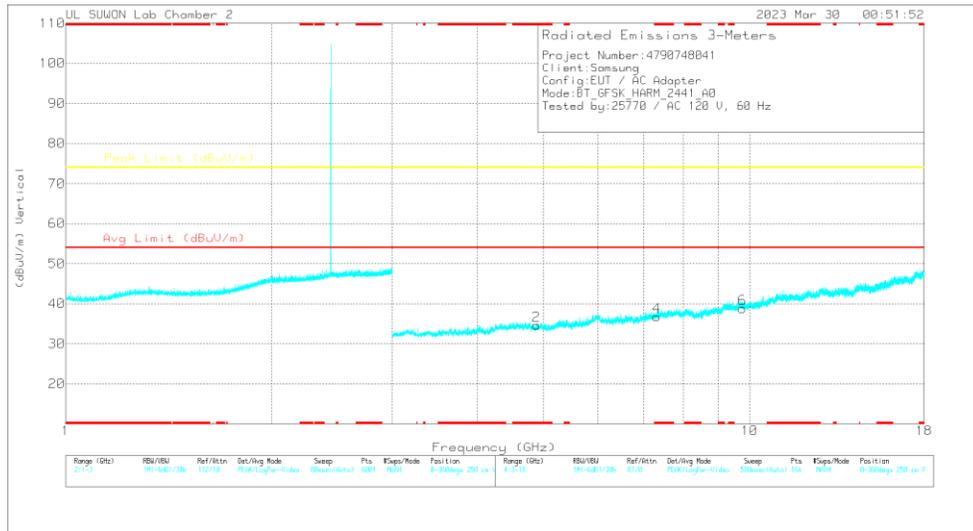
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.79876	35.23	PKFH	34	-27	42.23	-	-	74	-31.77	0	100	H
* 4.81163	35.54	PKFH	34	-27	42.54	-	-	74	-31.46	0	100	V
7.21574	33.47	PKFH	35.7	-24.6	44.57	-	-	74	-29.43	0	100	H
7.1992	33.6	PKFH	35.6	-24.4	44.8	-	-	74	-29.2	0	100	V
9.61005	32.12	PKFH	36.9	-21.2	47.82	-	-	74	-26.18	0	100	H
9.60221	31.19	PKFH	36.9	-21.3	46.79	-	-	74	-27.21	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

39 CHANNEL RESULTS



HORIZONTAL



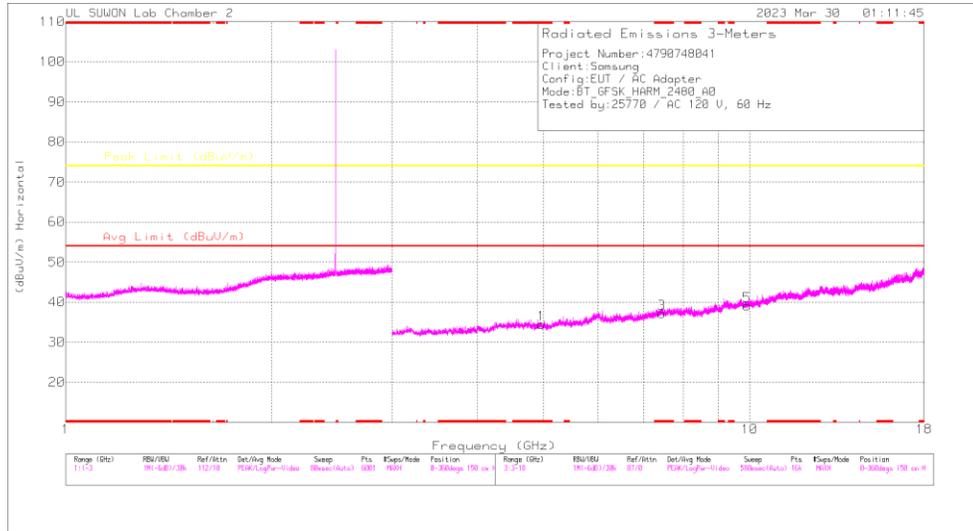
VERTICAL

Radiated Emissions

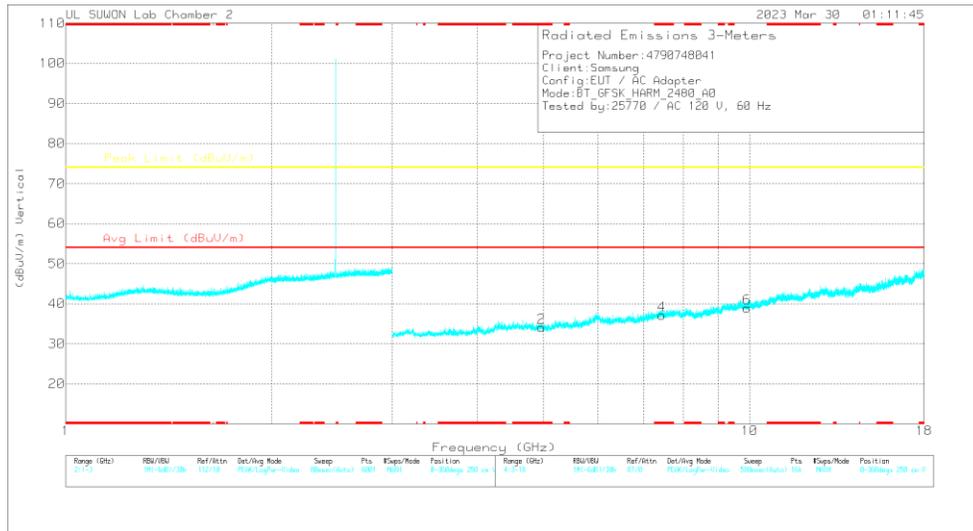
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.89122	34.7	PKFH	34	-26.7	42	-	-	74	-32	0	100	H
* 4.87933	35	PKFH	34	-26.9	42.1	-	-	74	-31.9	0	100	V
* 7.331	33.94	PKFH	35.7	-23.9	45.74	-	-	74	-28.26	0	100	H
* 7.31945	33.83	PKFH	35.7	-24	45.53	-	-	74	-28.47	0	100	V
9.77451	31.13	PKFH	37.1	-21.2	47.03	-	-	74	-26.97	0	100	H
9.77005	31.33	PKFH	37.1	-21.2	47.23	-	-	74	-26.77	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

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

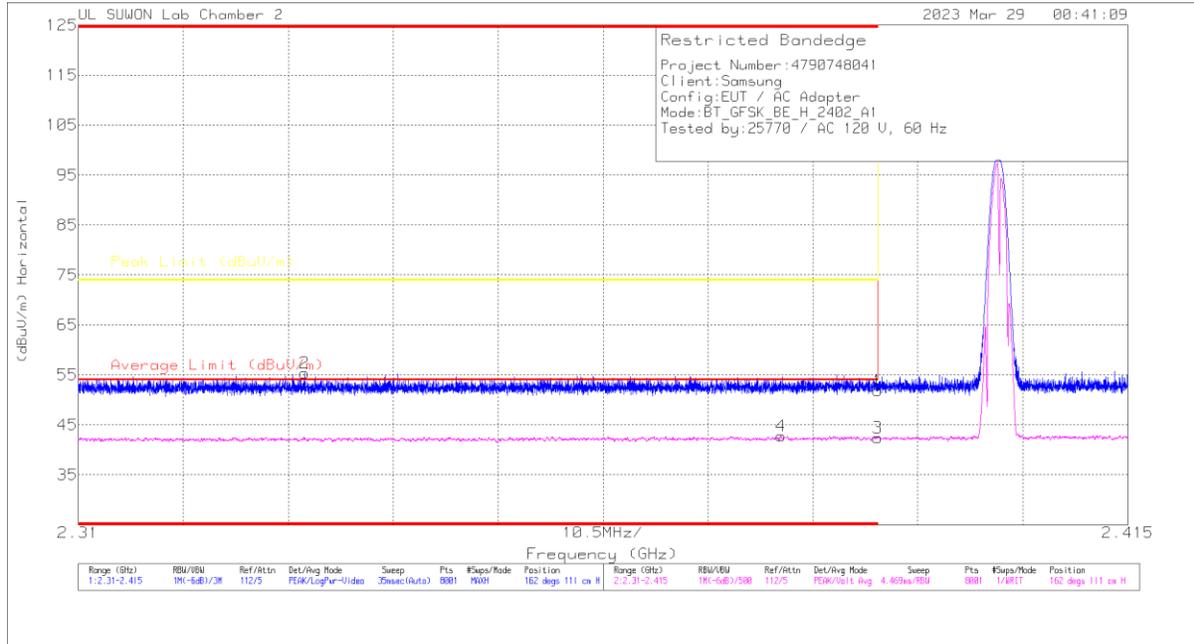
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.95195	34.71	PKFH	34	-26.2	42.51	-	-	74	-31.49	0	100	H
* 4.95579	34.33	PKFH	34	-26.2	42.13	-	-	74	-31.87	0	100	V
* 7.43901	33.44	PKFH	35.7	-23	46.14	-	-	74	-27.86	0	100	H
* 7.4365	32.88	PKFH	35.7	-23	45.58	-	-	74	-28.42	0	100	V
9.92697	30.12	PKFH	37.3	-20.8	46.62	-	-	74	-27.38	0	100	H
9.92759	30.46	PKFH	37.3	-20.8	46.96	-	-	74	-27.04	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

ANT2
BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

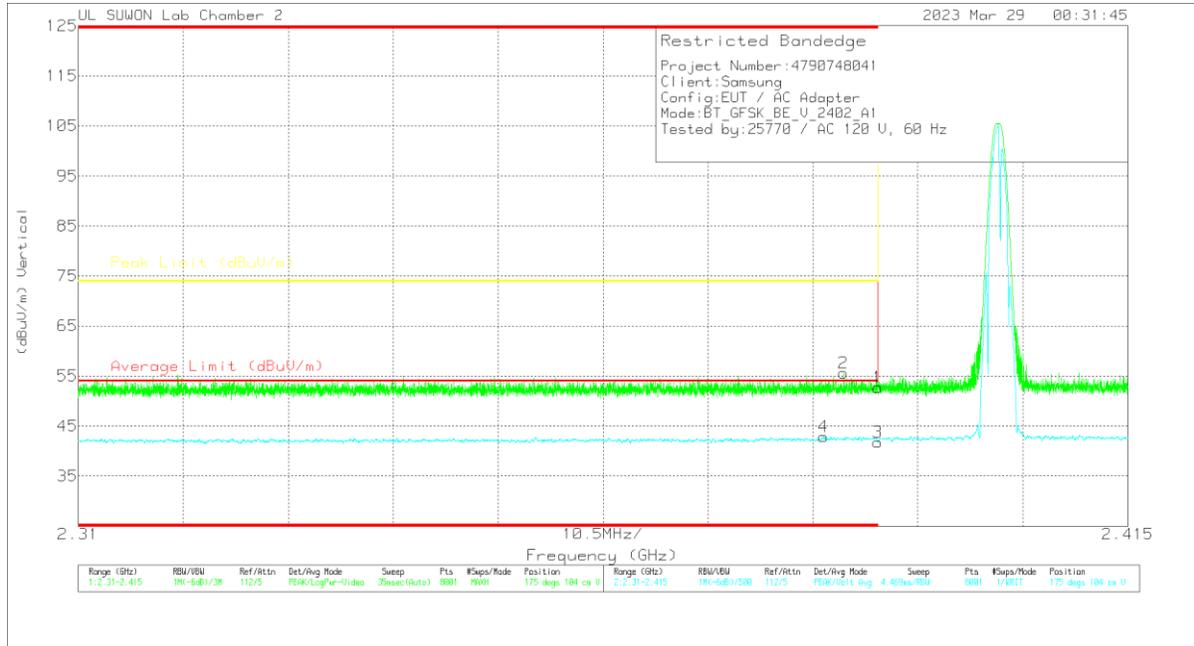


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	39.95	Pk	31.7	-19.8	51.85	-	-	74	-22.15	162	111	H
2	* 2.33264	43.71	Pk	31.6	-19.9	55.41	-	-	74	-18.59	162	111	H
3	* 2.39	30.49	VA1T	31.7	-19.8	42.39	54	-11.61	-	-	162	111	H
4	* 2.38028	30.84	VA1T	31.7	-19.8	42.74	54	-11.26	-	-	162	111	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

VERTICAL RESULT



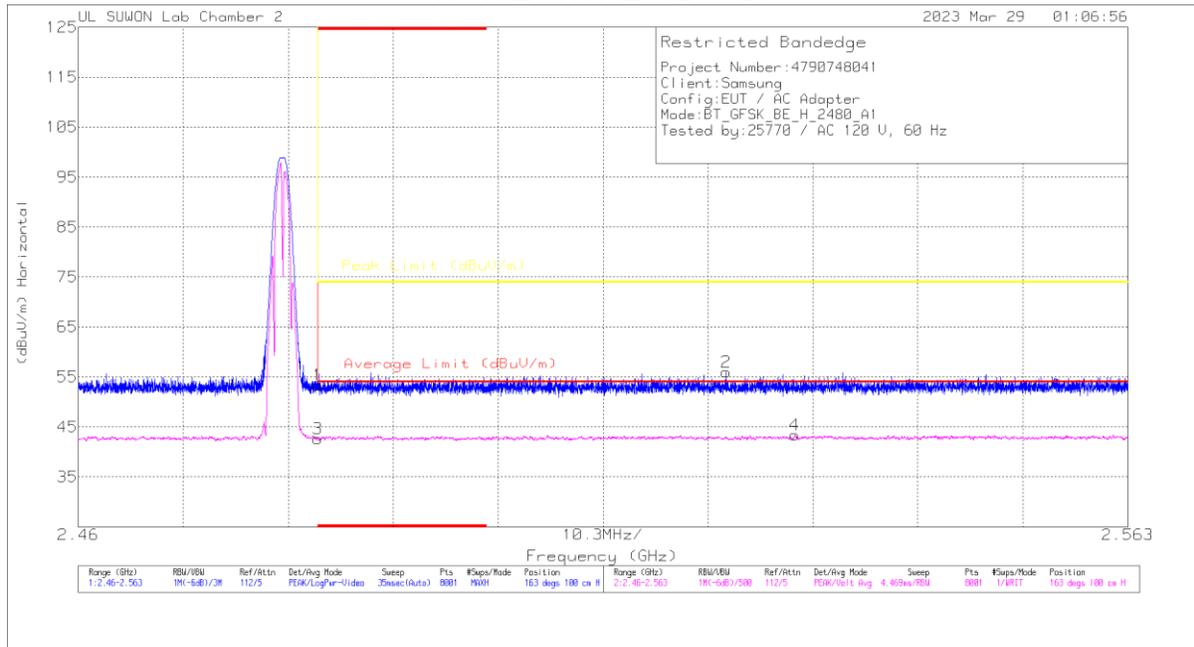
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	40.8	PK	31.7	-19.8	52.7	-	-	74	-21.3	175	104	V
2	* 2.38657	43.74	PK	31.7	-19.8	55.64	-	-	74	-18.36	175	104	V
3	* 2.39	29.91	VA1T	31.7	-19.8	41.81	54	-12.19	-	-	175	104	V
4	* 2.38454	30.98	VA1T	31.7	-19.8	42.88	54	-11.12	-	-	175	104	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

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

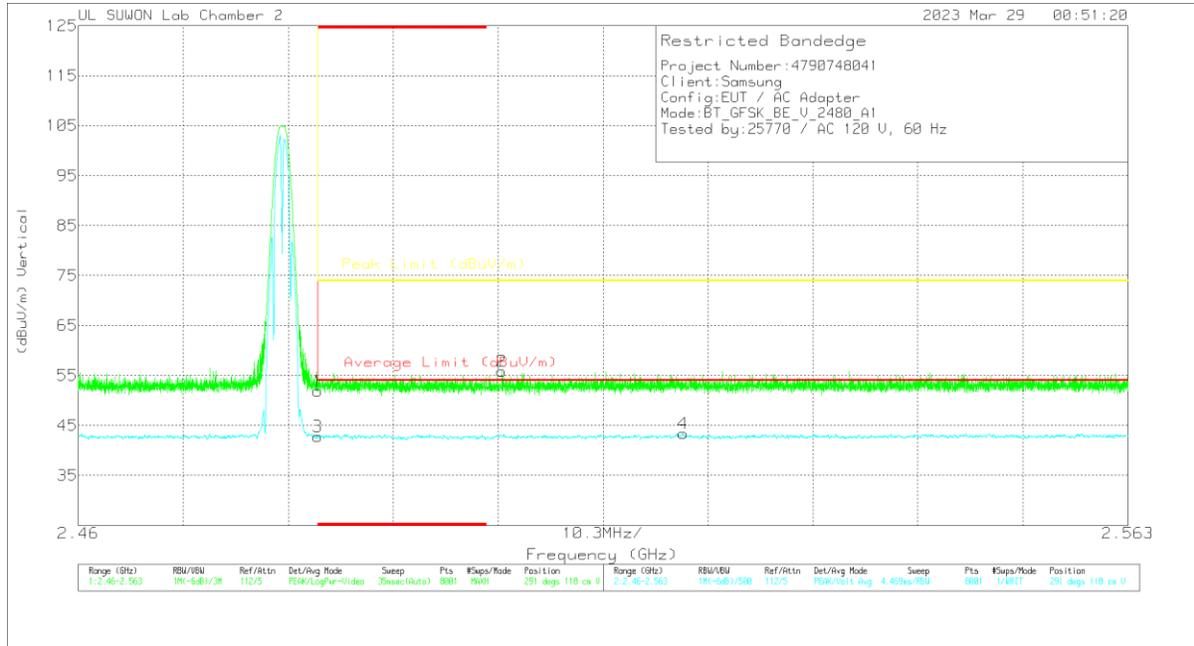


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	41.08	Pk	31.9	-19.6	53.38	-	-	74	-20.62	163	100	H
2	2.5236	43.72	Pk	31.9	-19.6	56.02	-	-	74	-17.98	163	100	H
3	* 2.48351	30.4	VA1T	31.9	-19.6	42.7	54	-11.3	-	-	163	100	H
4	2.53032	30.96	VA1T	31.9	-19.5	43.36	54	-10.64	-	-	163	100	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

VERTICAL RESULT



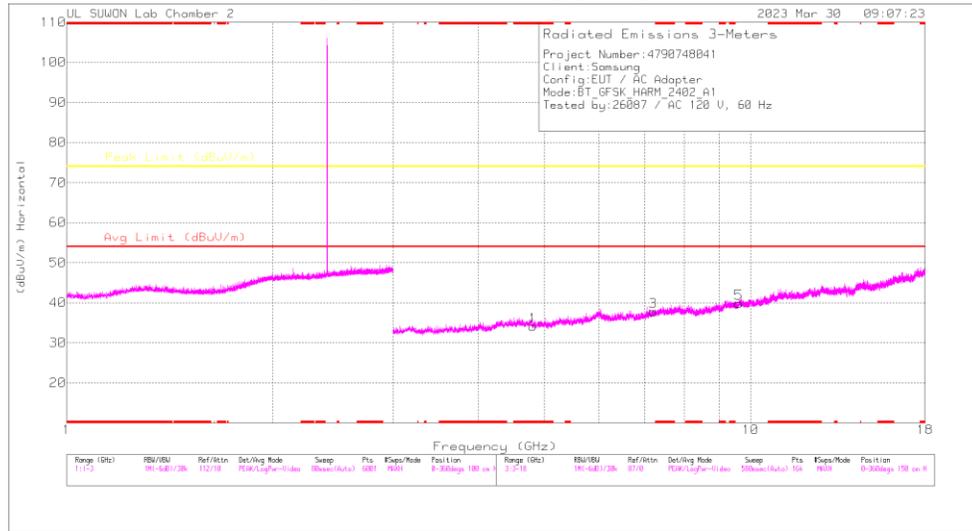
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	39.62	Pk	31.9	-19.6	51.92	-	-	74	-22.08	291	118	V
2	2.50157	43.61	Pk	31.9	-19.6	55.91	-	-	74	-18.09	291	118	V
3	* 2.48351	30.48	VA1T	31.9	-19.6	42.78	54	-11.22	-	-	291	118	V
4	2.51935	30.91	VA1T	31.9	-19.4	43.41	54	-10.59	-	-	291	118	V

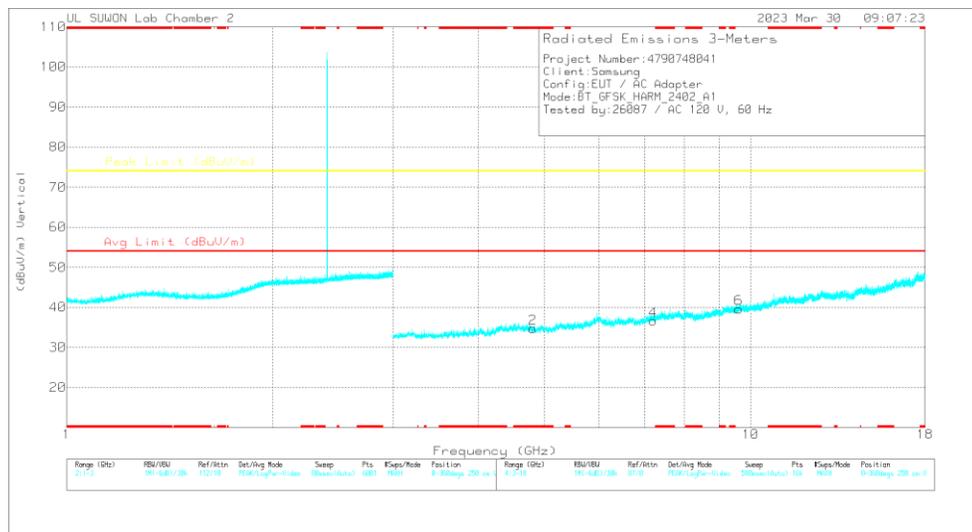
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



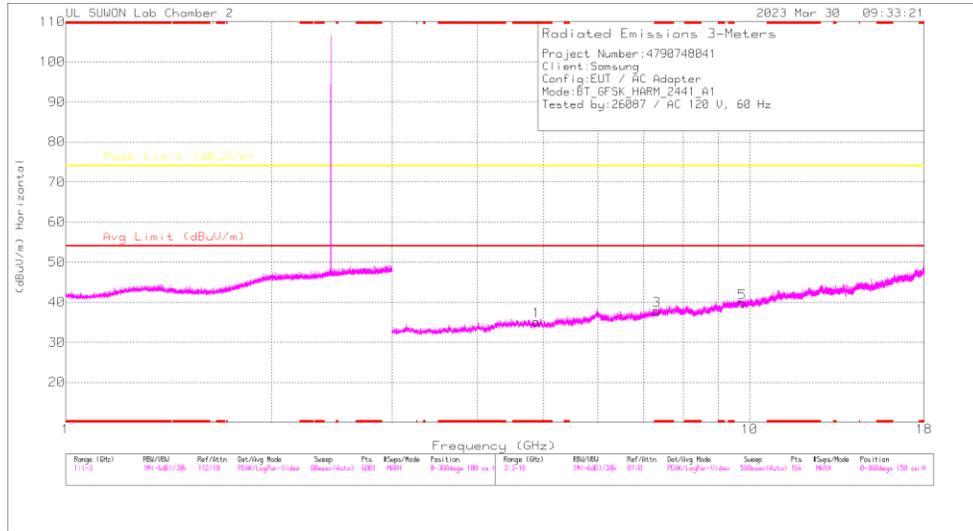
VERTICAL

Radiated Emissions

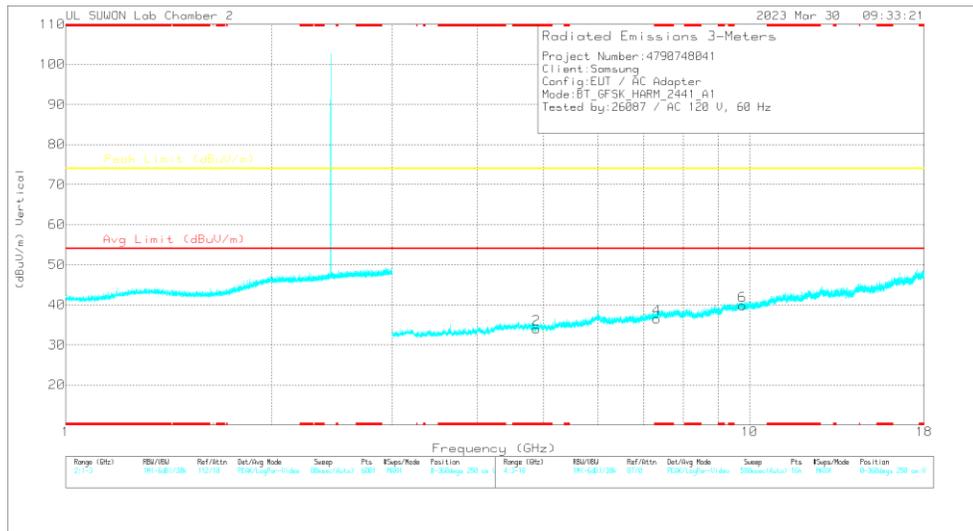
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80193	34.55	PKFH	34	-27	41.55	-	-	74	-32.45	0	100	H
* 4.80724	34.8	PKFH	34	-26.9	41.9	-	-	74	-32.1	0	100	V
7.20749	34.57	PKFH	35.7	-24.5	45.77	-	-	74	-28.23	0	100	H
7.2037	33.47	PKFH	35.7	-24.4	44.77	-	-	74	-29.23	0	100	V
9.61189	31.22	PKFH	36.9	-21.2	46.92	-	-	74	-27.08	0	100	H
9.6104	31.65	PKFH	36.9	-21.2	47.35	-	-	74	-26.65	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

39 CHANNEL RESULTS



HORIZONTAL



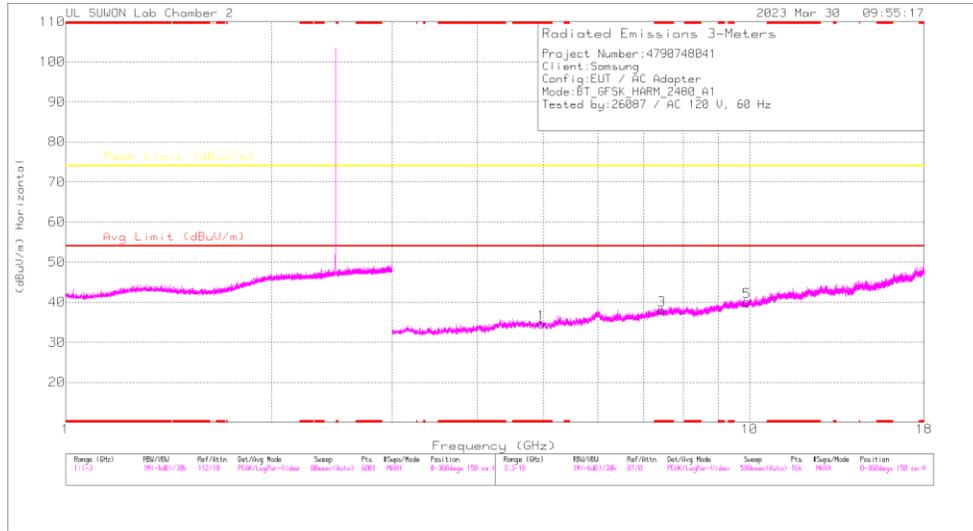
VERTICAL

Radiated Emissions

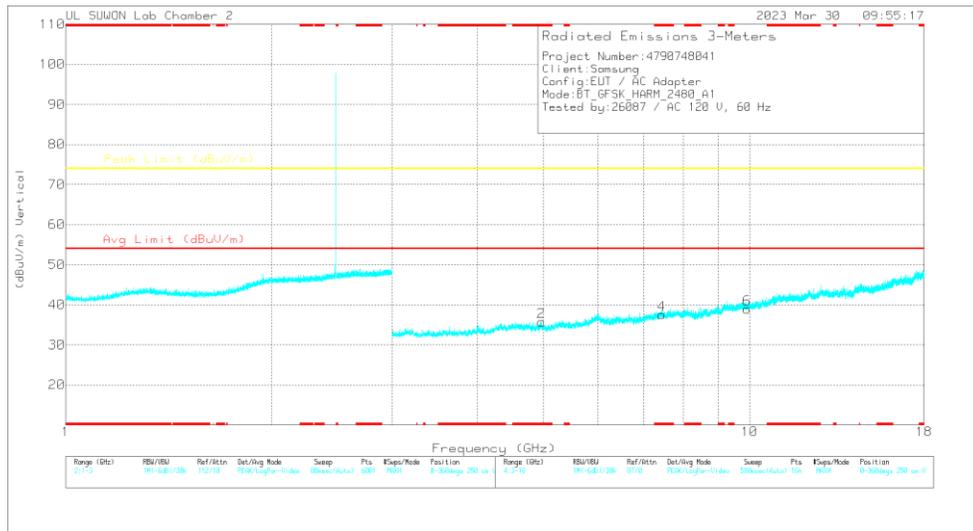
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88521	35.72	PKFH	34	-26.9	42.82	-	-	74	-31.18	0	100	H
* 4.88581	34.92	PKFH	34	-26.8	42.12	-	-	74	-31.88	0	100	V
* 7.31613	33.65	PKFH	35.7	-24	45.35	-	-	74	-28.65	0	100	H
* 7.32823	34.81	PKFH	35.7	-23.9	46.61	-	-	74	-27.39	0	100	V
9.7546	31.66	PKFH	37.1	-21.1	47.66	-	-	74	-26.34	0	100	H
9.76935	31.57	PKFH	37.1	-21.2	47.47	-	-	74	-26.53	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

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

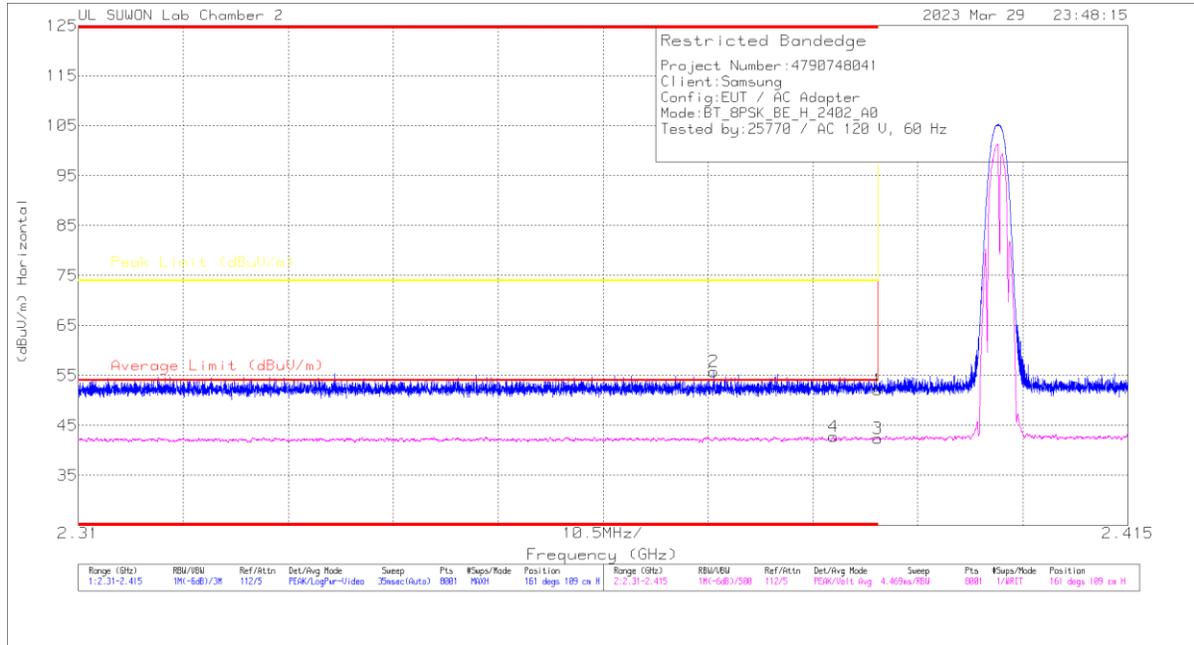
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.95211	34.29	PKFH	34	-26.2	42.09	-	-	74	-31.91	0	100	H
* 4.96385	35.85	PKFH	34	-26.3	43.55	-	-	74	-30.45	0	100	V
* 7.44527	33.35	PKFH	35.7	-23.1	45.95	-	-	74	-28.05	0	100	H
* 7.43657	33.02	PKFH	35.7	-23	45.72	-	-	74	-28.28	0	100	V
9.92357	30.69	PKFH	37.3	-20.9	47.09	-	-	74	-26.91	0	100	H
9.91707	30.74	PKFH	37.3	-20.9	47.14	-	-	74	-26.86	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

10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

ANT1
 BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

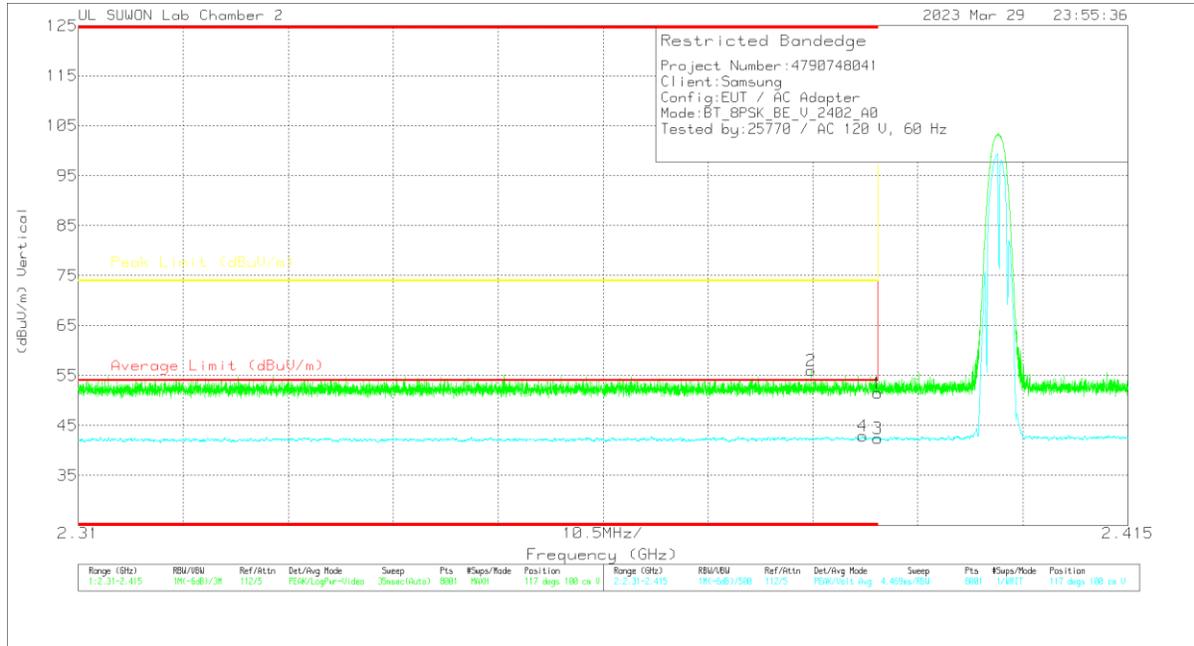


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	40.26	Pk	31.7	-19.8	52.16	-	-	74	-21.84	161	109	H
2	* 2.37359	43.9	Pk	31.7	-19.8	55.8	-	-	74	-18.2	161	109	H
3	* 2.39	30.53	VA1T	31.7	-19.8	42.43	54	-11.57	-	-	161	109	H
4	* 2.38555	30.86	VA1T	31.7	-19.8	42.76	54	-11.24	-	-	161	109	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



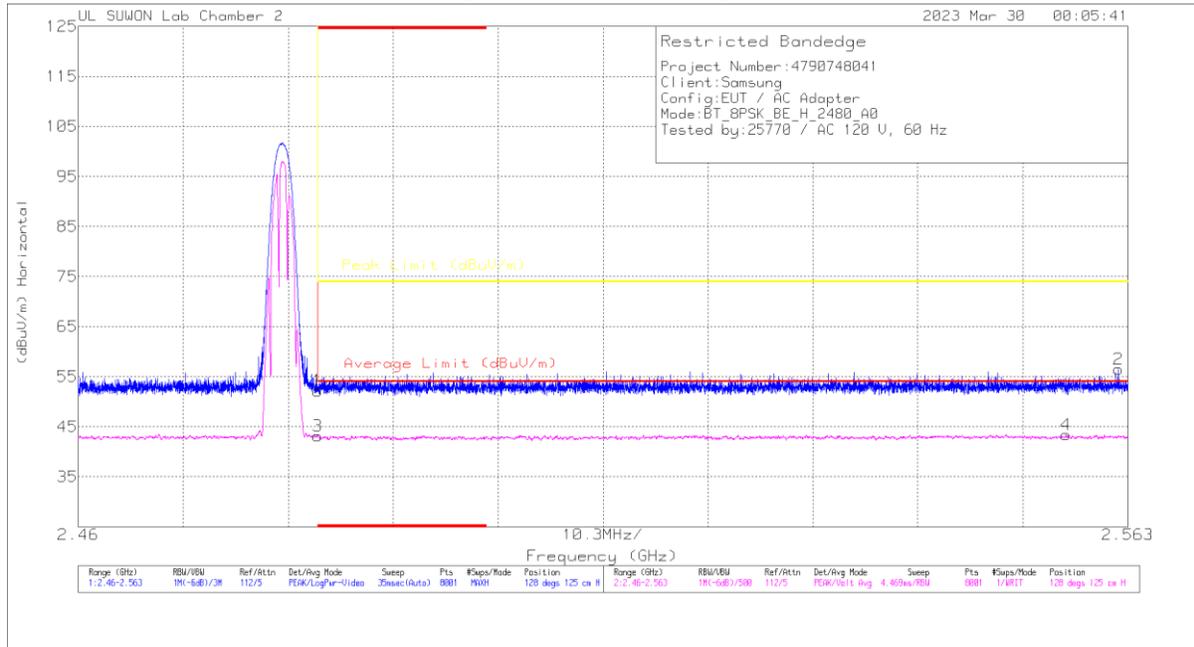
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	39.57	Pk	31.7	-19.8	51.47	-	-	74	-22.53	117	100	V
2	* 2.38329	44.07	Pk	31.7	-19.8	55.97	-	-	74	-18.03	117	100	V
3	* 2.39	30.56	VA1T	31.7	-19.8	42.46	54	-11.54	-	-	117	100	V
4	* 2.38847	30.97	VA1T	31.7	-19.8	42.87	54	-11.13	-	-	117	100	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

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

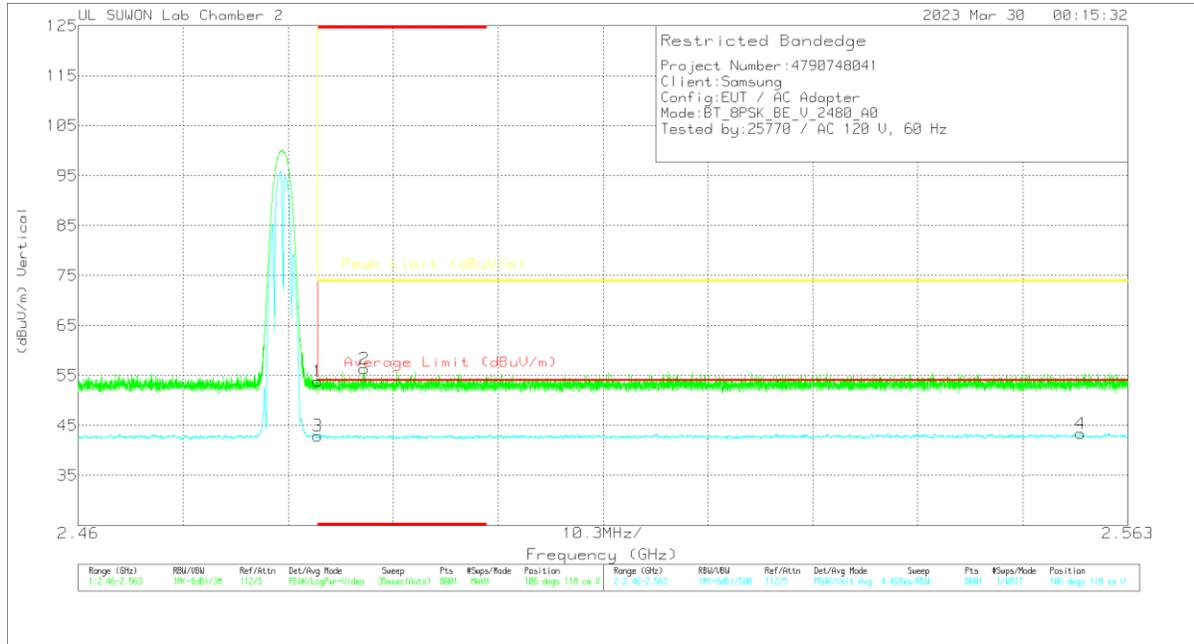


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	39.89	Pk	31.9	-19.6	52.19	-	-	74	-21.81	128	125	H
2	2.5621	43.85	Pk	32	-19.4	56.45	-	-	74	-17.55	128	125	H
3	* 2.48351	30.9	VA1T	31.9	-19.6	43.2	54	-10.8	-	-	128	125	H
4	2.55695	30.94	VA1T	32	-19.5	43.44	54	-10.56	-	-	128	125	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

VERTICAL RESULT



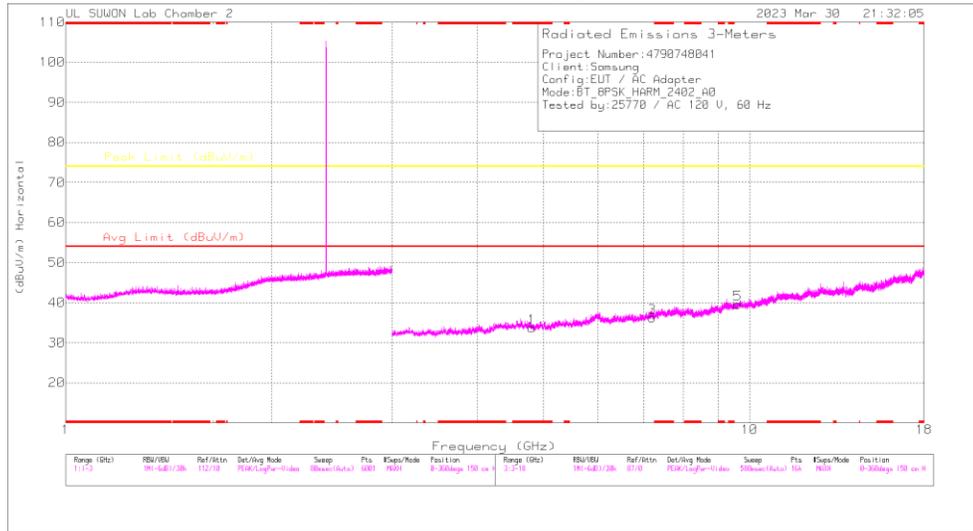
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	41.6	Pk	31.9	-19.6	53.9	-	-	74	-20.1	106	118	V
2	* 2.48805	44.06	Pk	31.9	-19.6	56.36	-	-	74	-17.64	106	118	V
3	* 2.48351	30.86	VA1T	31.9	-19.6	42.96	54	-11.04	-	-	106	118	V
4	2.55833	30.89	VA1T	32	-19.5	43.39	54	-10.61	-	-	106	118	V

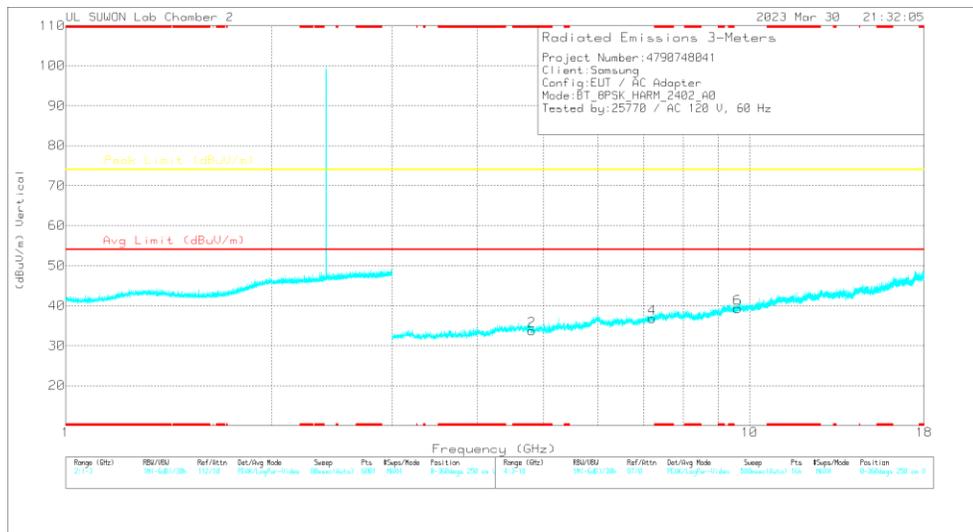
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



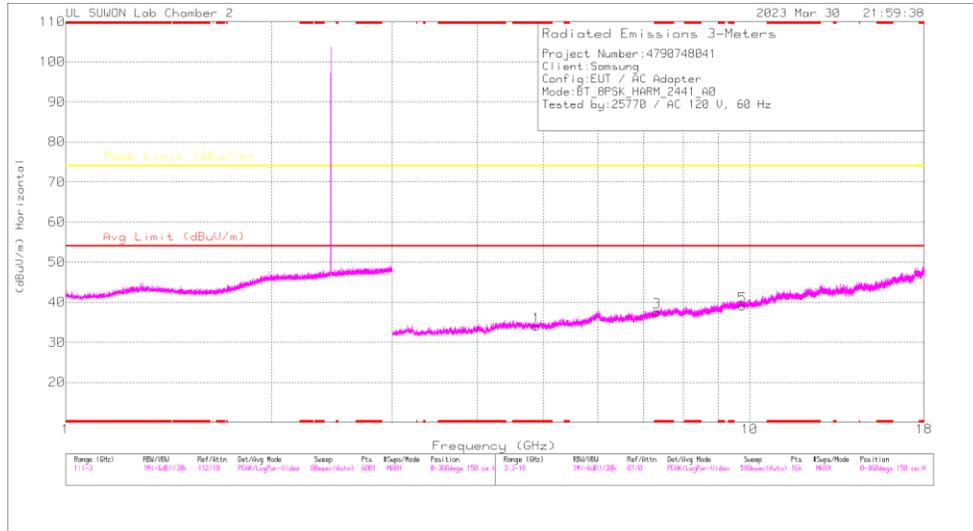
VERTICAL

Radiated Emissions

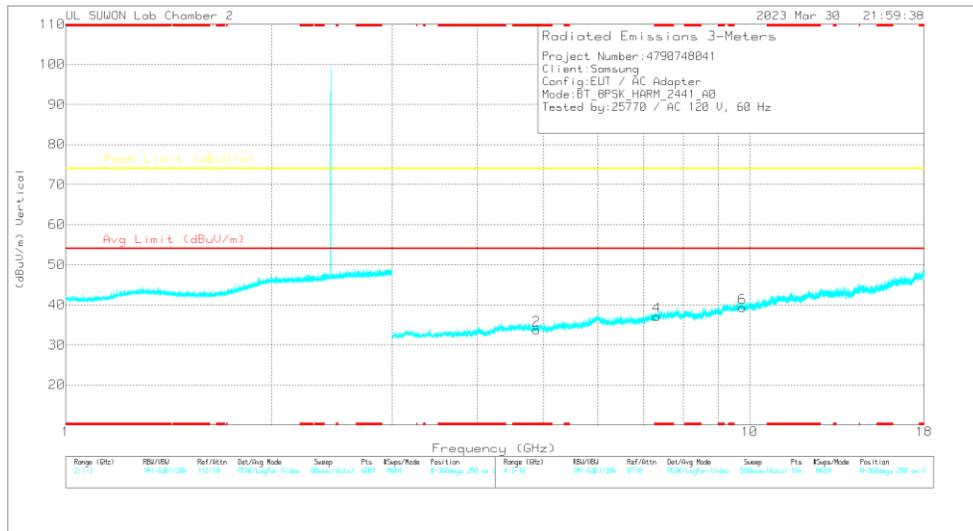
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80075	34.49	PKFH	34	-26.9	41.59	-	-	74	-32.41	0	100	H
* 4.81319	34.97	PKFH	34	-27	41.97	-	-	74	-32.03	0	100	V
7.19697	34.05	PKFH	35.6	-24.4	45.25	-	-	74	-28.75	0	100	H
7.20267	33.32	PKFH	35.7	-24.4	44.62	-	-	74	-29.38	0	100	V
9.61293	31.81	PKFH	36.9	-21.2	47.51	-	-	74	-26.49	0	100	H
9.61584	31.17	PKFH	36.9	-21.3	46.77	-	-	74	-27.23	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

39 CHANNEL RESULTS



HORIZONTAL



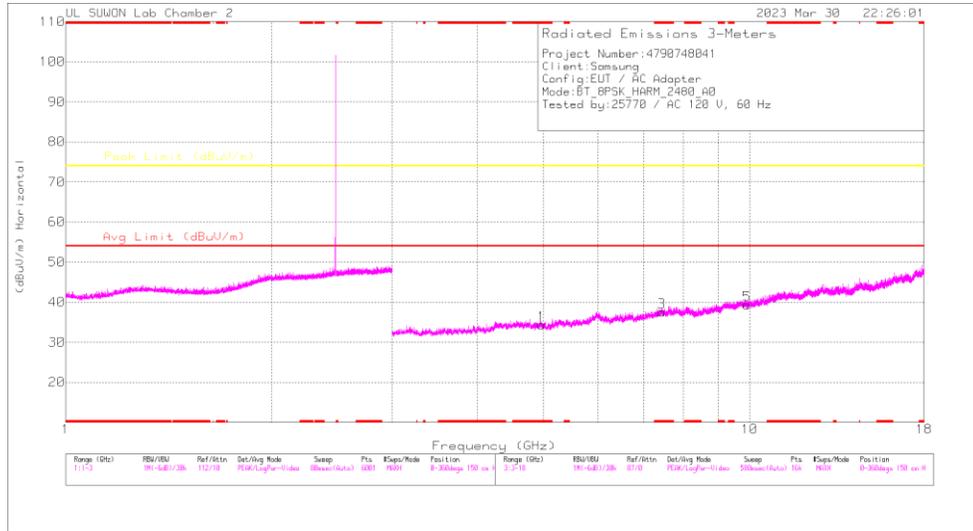
VERTICAL

Radiated Emissions

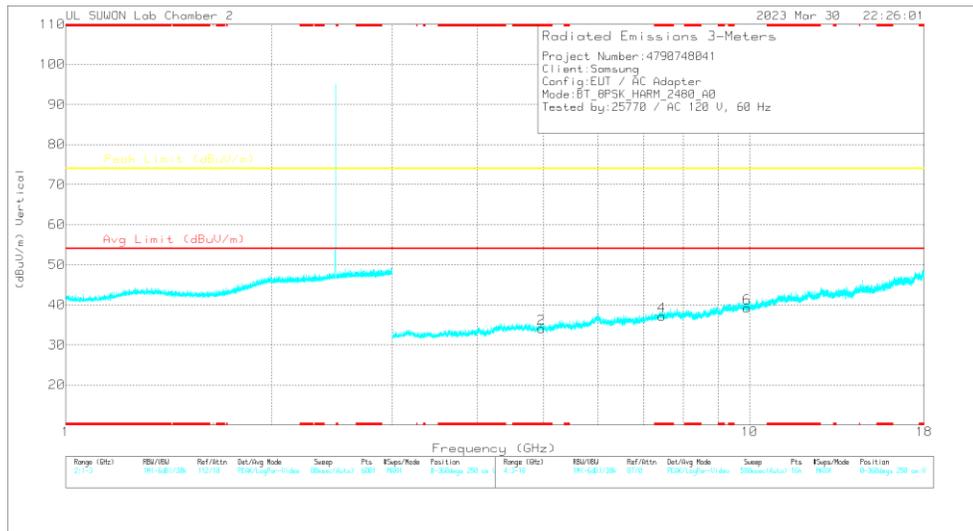
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88029	35.29	PKFH	34	-26.9	42.39	-	-	74	-31.61	0	100	H
* 4.87791	34.47	PKFH	34	-26.8	41.67	-	-	74	-32.33	0	100	V
* 7.32147	33.45	PKFH	35.7	-24	45.15	-	-	74	-28.85	0	100	H
* 7.33043	34.22	PKFH	35.7	-23.9	46.02	-	-	74	-27.98	0	100	V
9.7702	31.37	PKFH	37.1	-21.2	47.27	-	-	74	-26.73	0	100	H
9.77152	30.64	PKFH	37.1	-21.2	46.54	-	-	74	-27.46	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

78 CHANNEL RESULTS



HORIZONTAL



VERTICAL

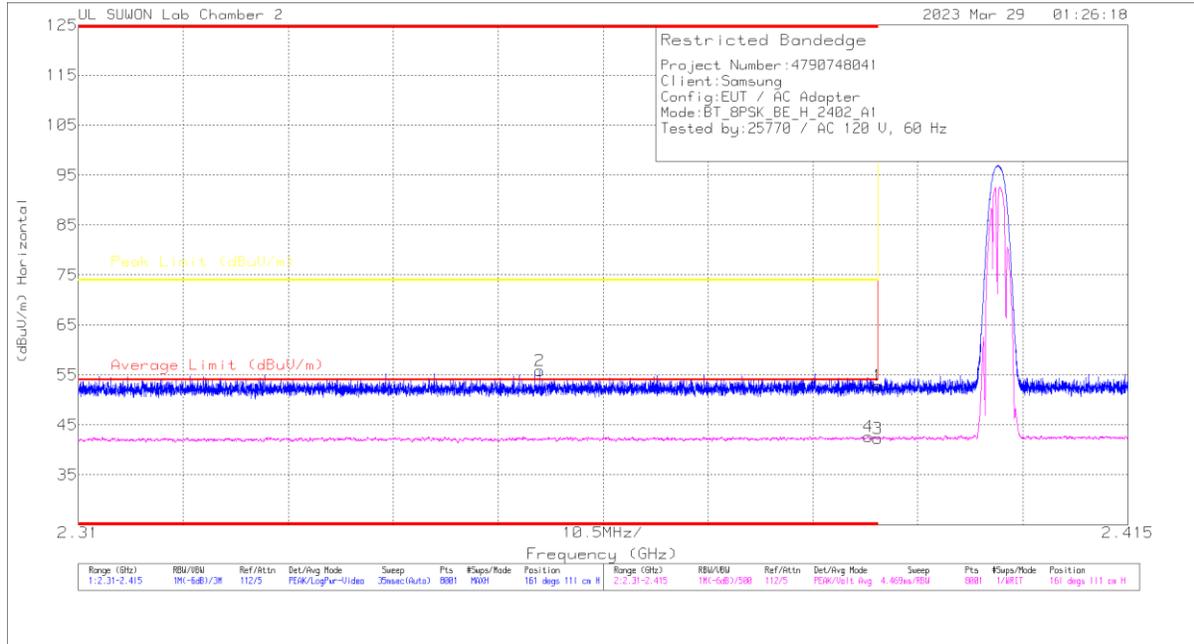
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.9557	33.72	PKFH	34	-26.2	41.52	-	-	74	-32.48	0	100	H
* 4.95744	34.53	PKFH	34	-26.2	42.33	-	-	74	-31.67	0	100	V
* 7.44609	32.63	PKFH	35.7	-23.1	45.23	-	-	74	-28.77	0	100	H
* 7.4406	32.98	PKFH	35.7	-23	45.68	-	-	74	-28.32	0	100	V
9.92404	31.15	PKFH	37.3	-20.9	47.55	-	-	74	-26.45	0	100	H
9.92352	30.63	PKFH	37.3	-20.9	47.03	-	-	74	-26.97	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

ANT2
BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

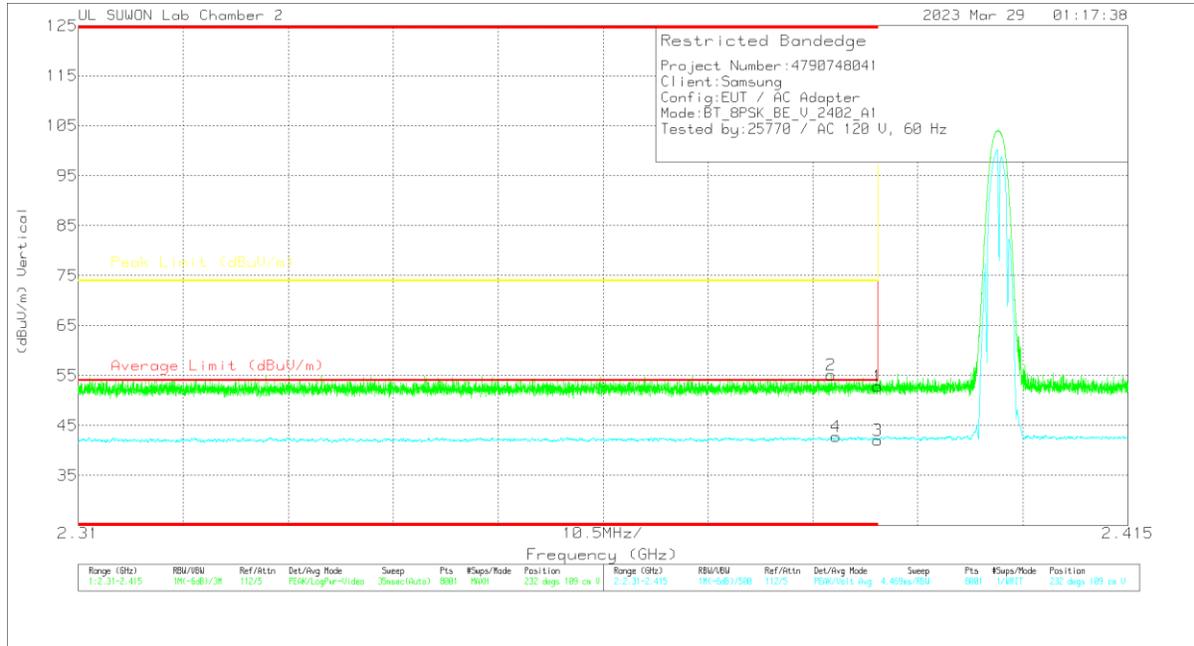


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	40.94	Pk	31.7	-19.8	52.84	-	-	74	-21.16	161	111	H
2	* 2.35616	44.12	Pk	31.6	-19.9	55.82	-	-	74	-18.18	161	111	H
3	* 2.39	30.33	VA1T	31.7	-19.8	42.23	54	-11.77	-	-	161	111	H
4	* 2.38903	30.81	VA1T	31.7	-19.8	42.71	54	-11.29	-	-	161	111	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

VERTICAL RESULT



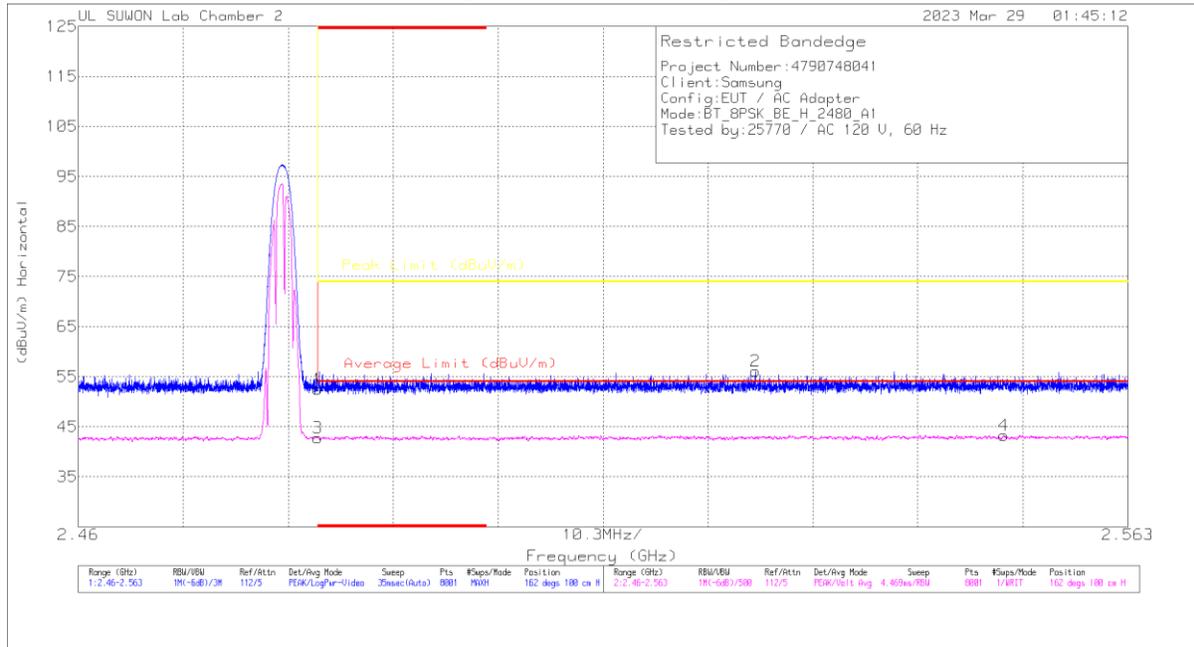
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 2.39	40.99	Pk	31.7	-19.8	52.89	-	-	74	-21.11	232	109	V
2	* 2.38529	43.17	Pk	31.7	-19.8	55.07	-	-	74	-18.93	232	109	V
3	* 2.39	30.18	VA1T	31.7	-19.8	42.08	54	-11.92	-	-	232	109	V
4	* 2.38581	30.88	VA1T	31.7	-19.8	42.78	54	-11.22	-	-	232	109	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

BANDEDGE (78 CHANNEL)

HORIZONTAL RESULT

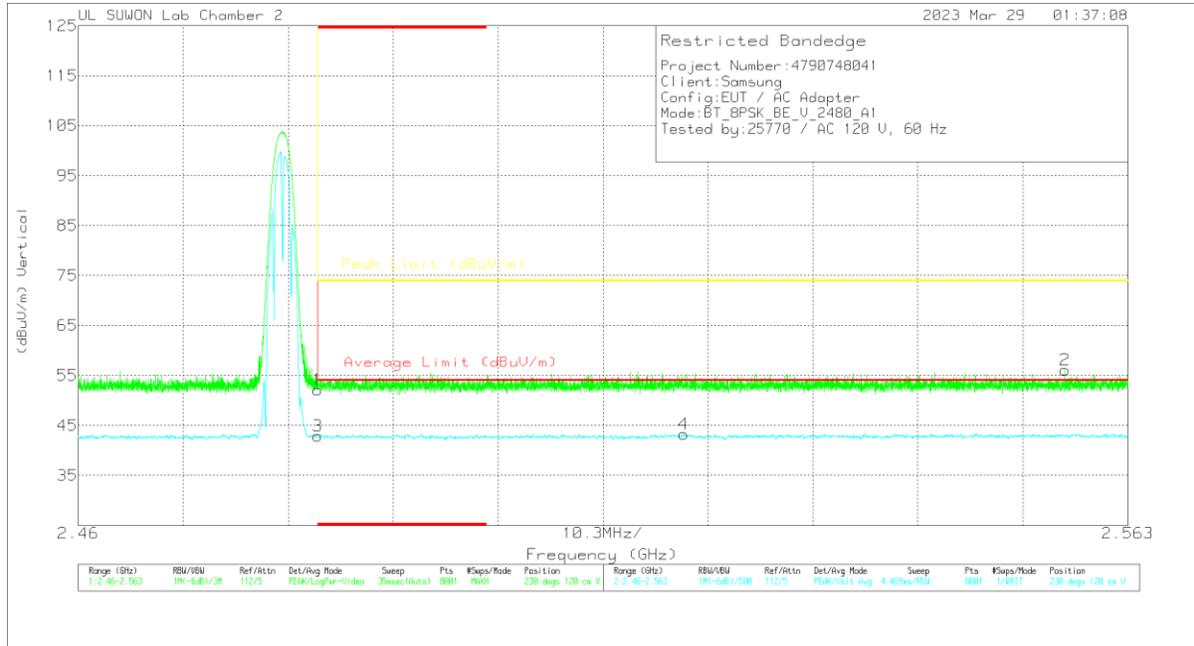


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	40.19	Pk	31.9	-19.6	62.49	-	-	74	-21.51	162	100	H
2	2.52646	43.69	Pk	31.9	-19.5	56.09	-	-	74	-17.91	162	100	H
3	* 2.48351	30.47	VA1T	31.9	-19.6	42.77	54	-11.23	-	-	162	100	H
4	2.55083	30.78	VA1T	32	-19.5	43.28	54	-10.72	-	-	162	100	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

VERTICAL RESULT



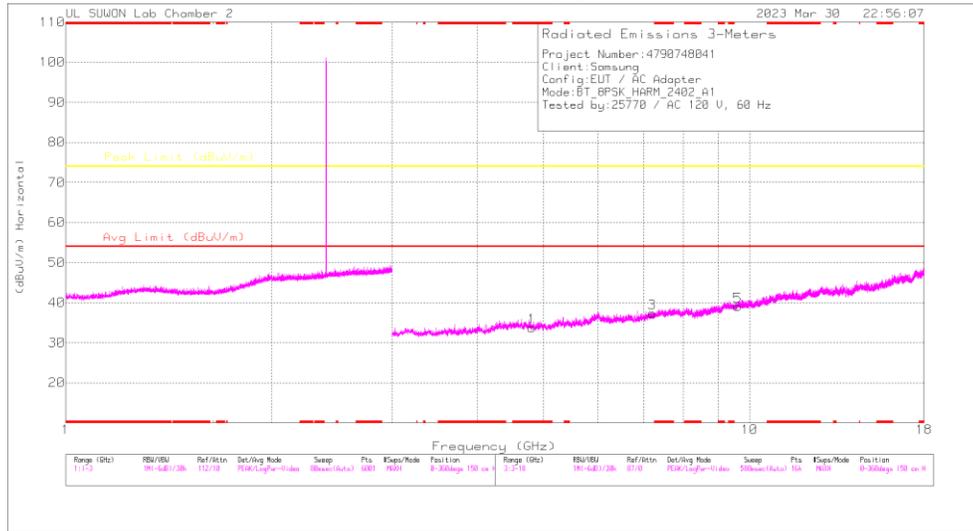
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	39.82	Pk	31.9	-19.6	52.12	-	-	74	-21.88	230	120	V
2	2.55685	43.66	Pk	32	-19.5	56.16	-	-	74	-17.84	230	120	V
3	* 2.48351	30.62	VA1T	31.9	-19.6	42.92	54	-11.08	-	-	230	120	V
4	2.51941	30.79	VA1T	31.9	-19.4	43.29	54	-10.71	-	-	230	120	V

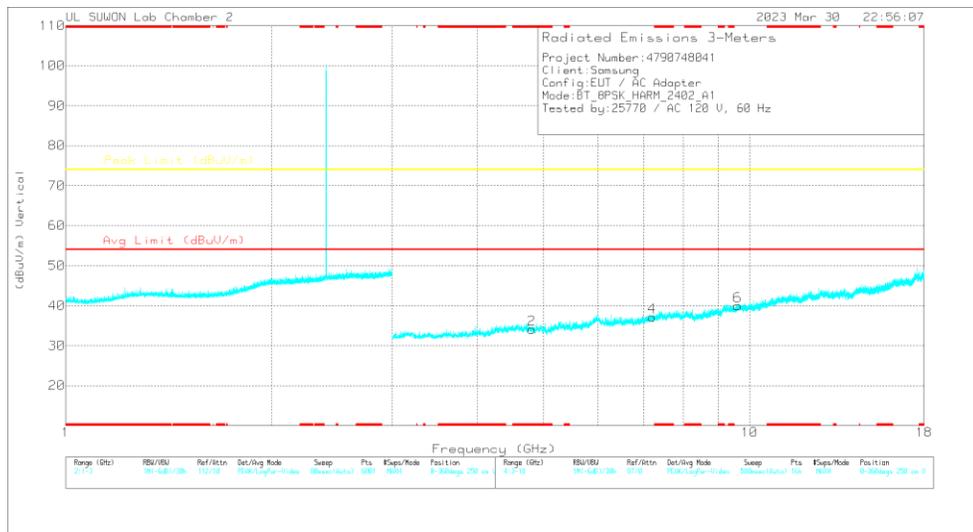
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



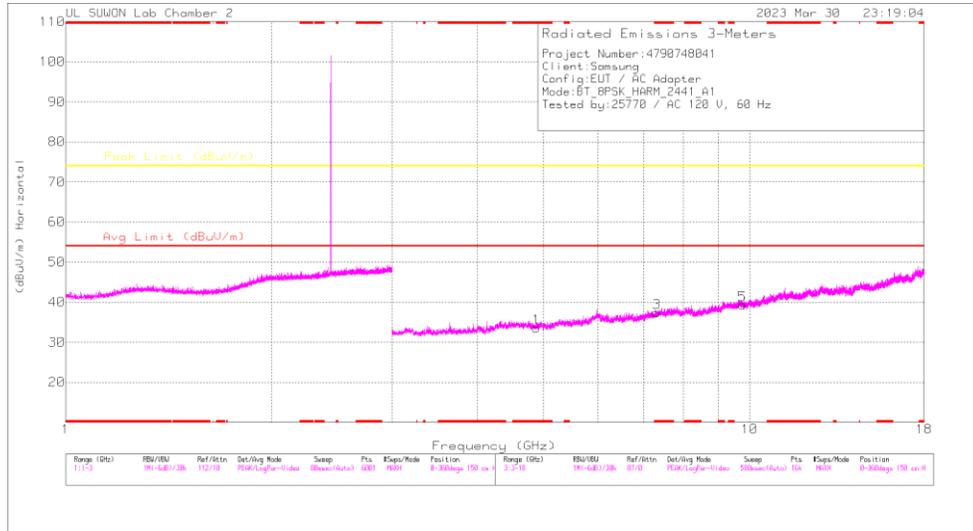
VERTICAL

Radiated Emissions

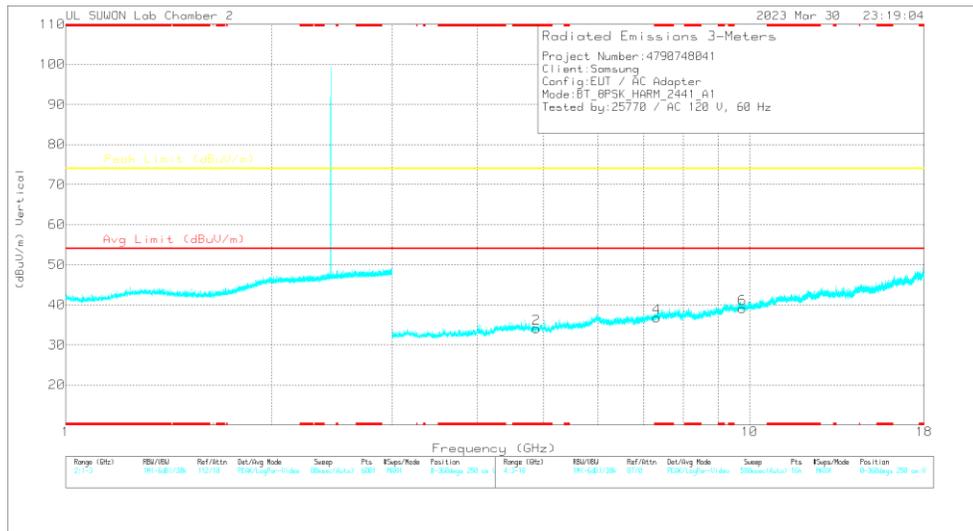
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80863	34.85	PKFH	34	-26.9	41.95	-	-	74	-32.05	0	100	H
* 4.79652	34.34	PKFH	34	-26.9	41.44	-	-	74	-32.56	0	100	V
7.20655	34.65	PKFH	35.7	-24.5	45.85	-	-	74	-28.15	0	100	H
7.20364	33.19	PKFH	35.7	-24.4	44.49	-	-	74	-29.51	0	100	V
9.607	31.39	PKFH	36.9	-21.2	47.09	-	-	74	-26.91	0	100	H
9.60421	31.72	PKFH	36.9	-21.3	47.32	-	-	74	-26.68	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

39 CHANNEL RESULTS



HORIZONTAL



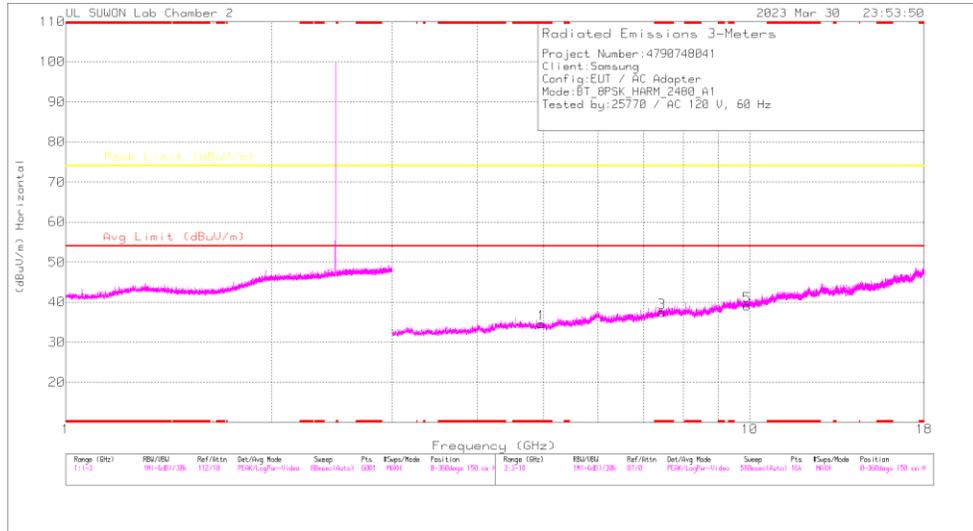
VERTICAL

Radiated Emissions

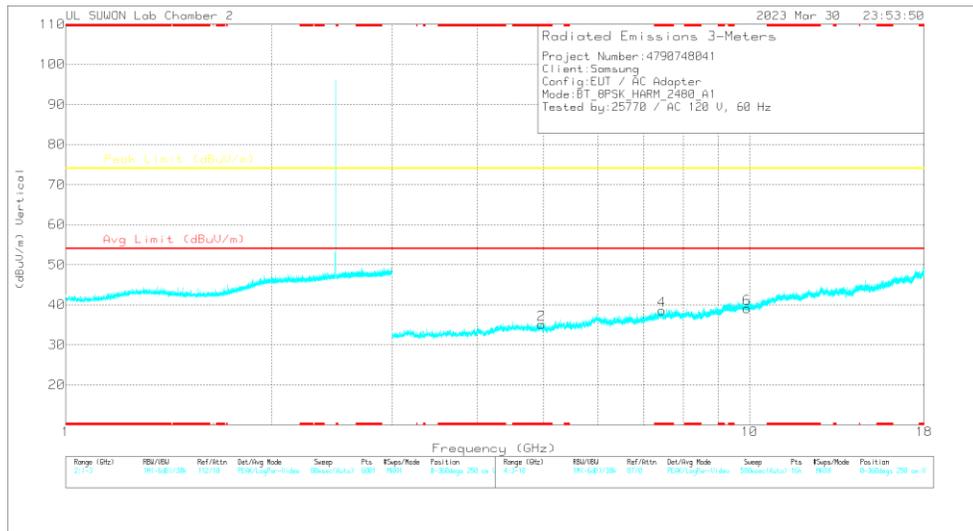
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87389	35.25	PKFH	34	-26.9	42.35	-	-	74	-31.65	0	100	H
* 4.87601	34.85	PKFH	34	-26.9	41.95	-	-	74	-32.05	0	100	V
* 7.32032	33.8	PKFH	35.7	-24	45.5	-	-	74	-28.5	0	100	H
* 7.33009	33.37	PKFH	35.7	-23.9	45.17	-	-	74	-28.83	0	100	V
9.76444	31.16	PKFH	37.1	-21.2	47.06	-	-	74	-26.94	0	100	H
9.77339	31.03	PKFH	37.1	-21.2	46.93	-	-	74	-27.07	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

78 CHANNEL RESULTS



HORIZONTAL



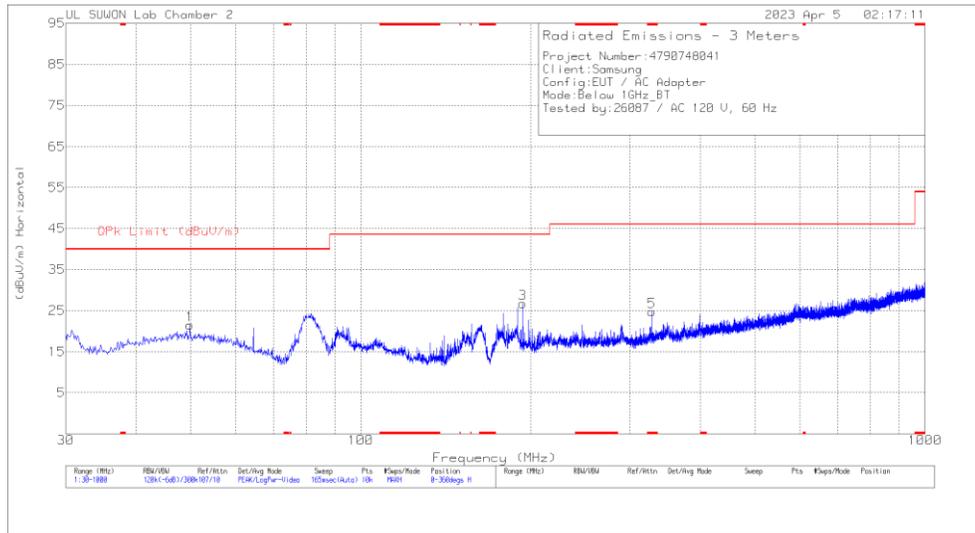
VERTICAL

Radiated Emissions

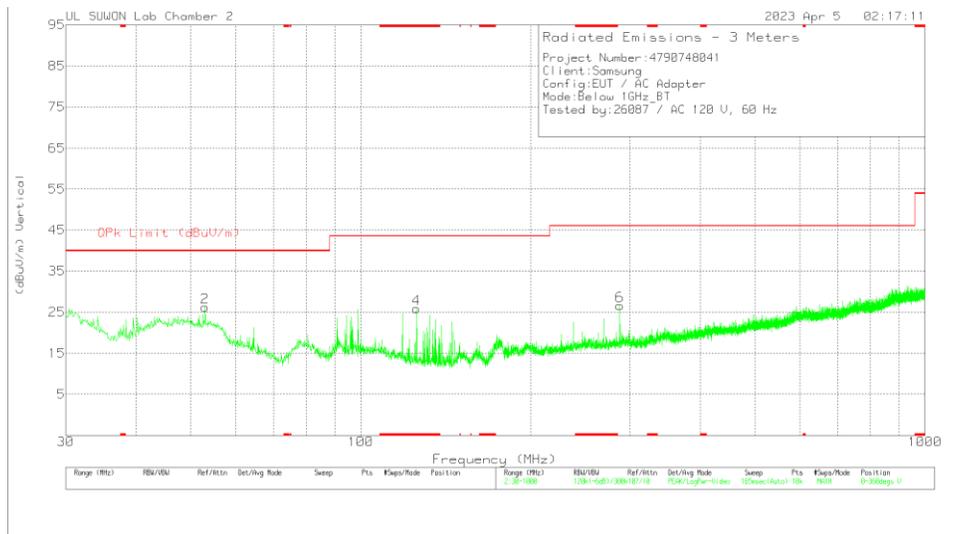
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.965	34.4	PKFH	34	-26.3	42.1	-	-	74	-31.9	0	100	H
* 4.96443	34.71	PKFH	34	-26.3	42.41	-	-	74	-31.59	0	100	V
* 7.44166	32.93	PKFH	35.7	-23.1	45.53	-	-	74	-28.47	0	100	H
* 7.44782	32.7	PKFH	35.7	-23.1	45.3	-	-	74	-28.7	0	100	V
9.92803	30.92	PKFH	37.3	-20.8	47.42	-	-	74	-26.58	0	100	H
9.91107	30.54	PKFH	37.3	-21	46.84	-	-	74	-27.16	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

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	VULB9163_749	Below_1G(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	49.788	33.05	Pk	20.1	-31.7	21.45	40	-18.55	0-360	300	H
3	193.736	40.53	Pk	17	-30.8	26.73	43.52	-16.79	0-360	100	H
5	* 328.178	35.25	Pk	19.8	-30.3	24.75	46.02	-21.27	0-360	100	H
2	52.989	38.03	Pk	19.8	-31.6	26.23	40	-13.77	0-360	200	V
4	* 125.545	42.14	Pk	14.8	-31.1	25.84	43.52	-17.68	0-360	100	V
6	287.923	38.06	Pk	19	-30.4	26.66	46.02	-19.36	0-360	100	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 C63.10:2013.

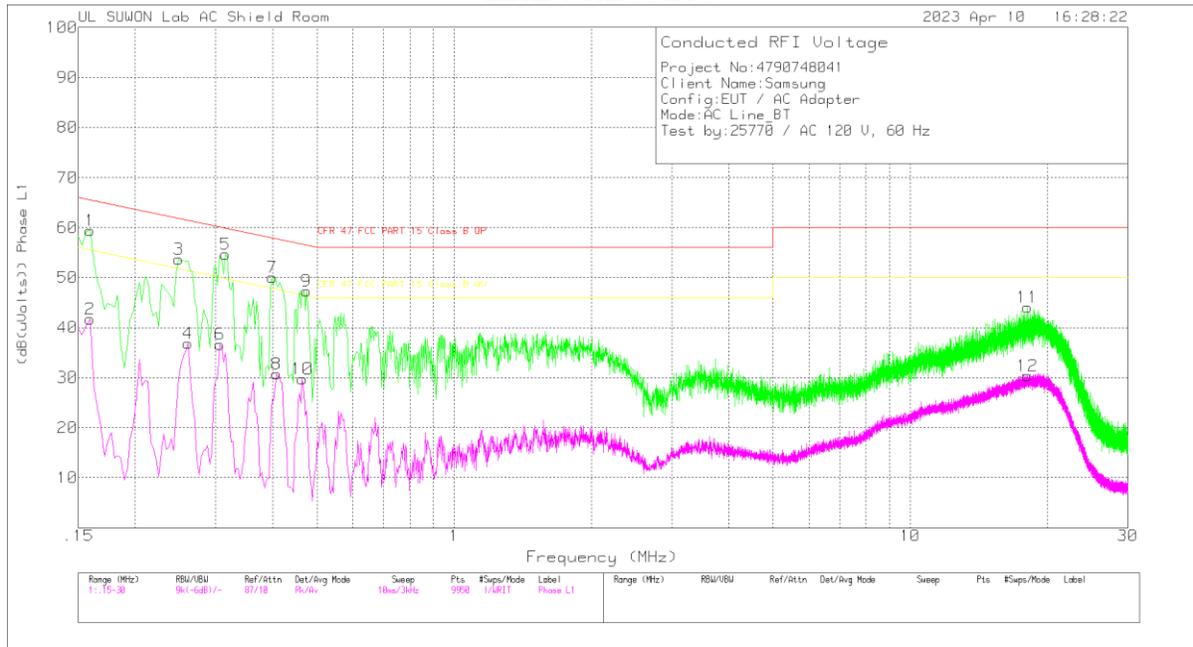
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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_With h 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	.159	49.53	Pk	9.8	.1	59.43	65.52	-6.09	-	-
2	.159	31.86	Av	9.8	.1	41.76	-	-	55.52	-13.76
3	.249	43.83	Pk	9.6	.2	53.63	61.79	-8.16	-	-
4	.261	27.04	Av	9.6	.2	36.84	-	-	51.4	-14.56
5	.315	44.76	Pk	9.7	.2	54.66	59.84	-5.18	-	-
6	.306	26.76	Av	9.7	.2	36.66	-	-	50.08	-13.42
7	.399	40.09	Pk	9.8	.2	50.09	57.87	-7.78	-	-
8	.408	20.71	Av	9.8	.2	30.71	-	-	47.69	-16.98
9	.474	37.25	Pk	9.9	.2	47.35	56.44	-9.09	-	-
10	.465	19.65	Av	9.9	.2	29.75	-	-	46.6	-16.85
11	18.072	33.6	Pk	10.1	.4	44.1	60	-15.9	-	-
12	18.081	19.86	Av	10.1	.4	30.36	-	-	50	-19.64

Pk - Peak detector

Av - Average detection

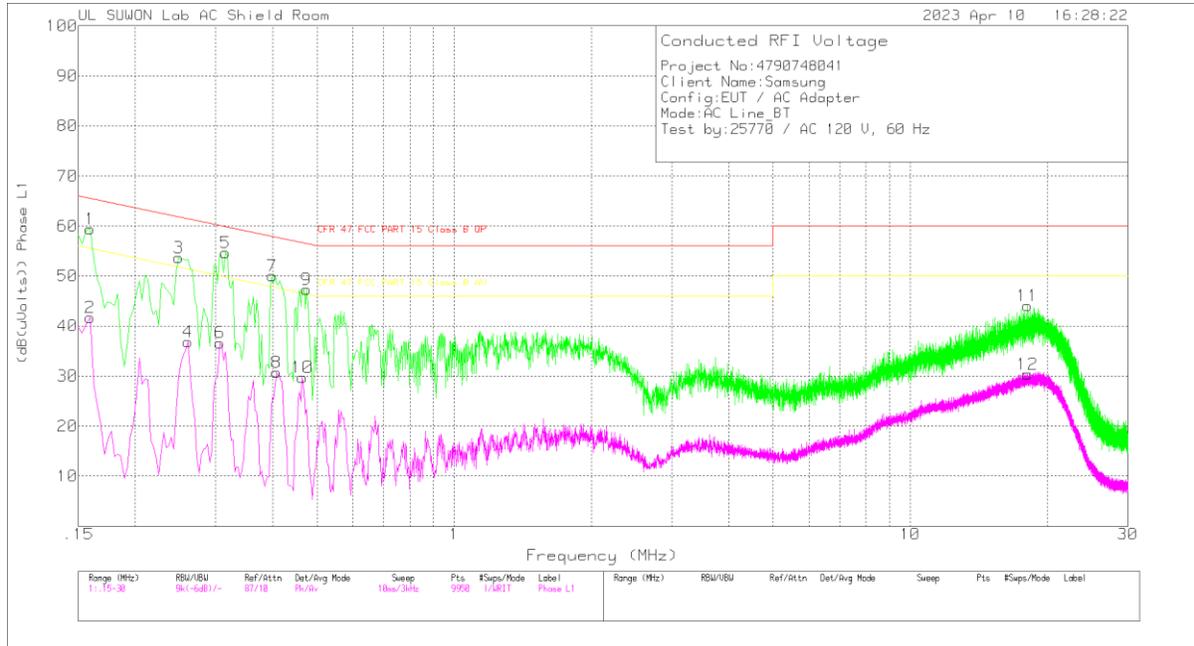
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15825	37.92	Qp	9.8	.1	47.82	65.56	-17.74	-	-
.24975	32.86	Qp	9.6	.2	42.66	61.77	-19.11	-	-
.31575	37.49	Qp	9.7	.2	47.39	59.82	-12.43	-	-
.39975	27.01	Qp	9.8	.2	37.01	57.86	-20.85	-	-
.47325	32.19	Qp	9.9	.2	42.29	56.46	-14.17	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.159	49.53	Pk	9.8	.1	59.43	65.52	-6.09	-	-
2	.159	31.86	Av	9.8	.1	41.76	-	-	55.52	-13.76
3	.249	43.83	Pk	9.6	.2	53.63	61.79	-8.16	-	-
4	.261	27.04	Av	9.6	.2	36.84	-	-	51.4	-14.56
5	.315	44.76	Pk	9.7	.2	54.66	59.84	-5.18	-	-
6	.306	26.76	Av	9.7	.2	36.66	-	-	50.08	-13.42
7	.399	40.09	Pk	9.8	.2	50.09	57.87	-7.78	-	-
8	.408	20.71	Av	9.8	.2	30.71	-	-	47.69	-16.98
9	.474	37.25	Pk	9.9	.2	47.35	56.44	-9.09	-	-
10	.465	19.65	Av	9.9	.2	29.75	-	-	46.6	-16.85
11	18.072	33.6	Pk	10.1	.4	44.1	60	-15.9	-	-
12	18.081	19.86	Av	10.1	.4	30.36	-	-	50	-19.64

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15825	37.92	Qp	9.8	.1	47.82	65.56	-17.74	-	-
.24975	32.86	Qp	9.6	.2	42.66	61.77	-19.11	-	-
.31575	37.49	Qp	9.7	.2	47.39	59.82	-12.43	-	-
.39975	27.01	Qp	9.8	.2	37.01	57.86	-20.85	-	-
.47325	32.19	Qp	9.9	.2	42.29	56.46	-14.17	-	-

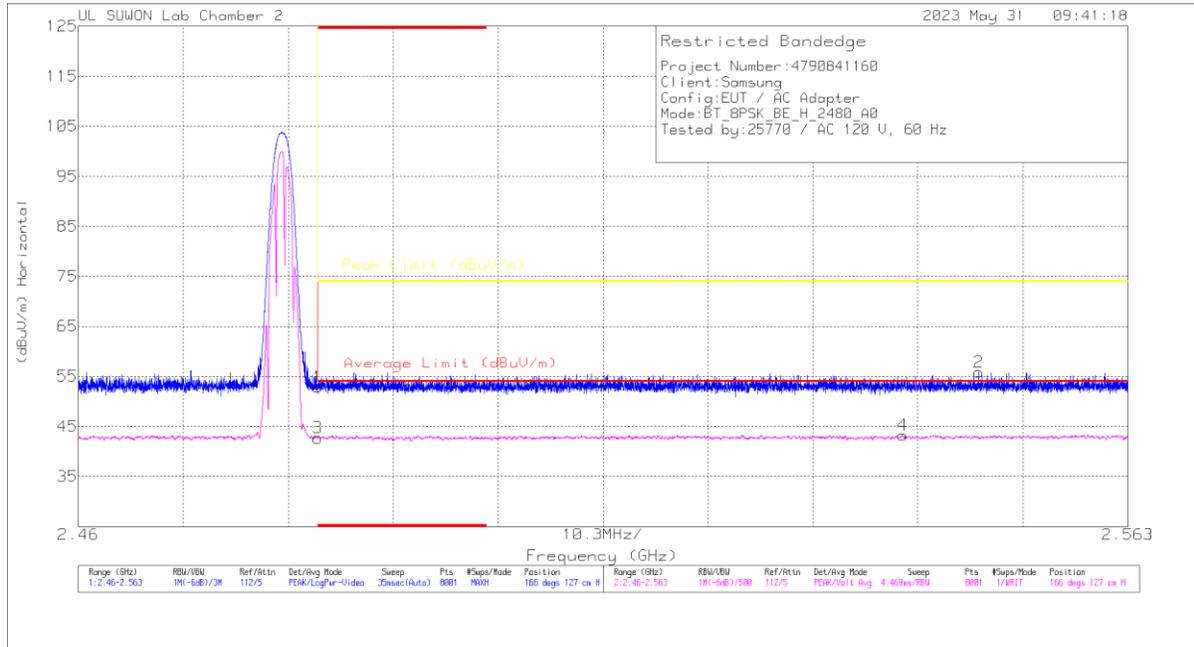
Qp - Quasi-Peak detector

12. SPOT-CHECK THEST RESULT

ANT1

BANDEDGE (WORST CASE : 8PSK / 2480 MHz)

2480 MHz HORIZONTAL



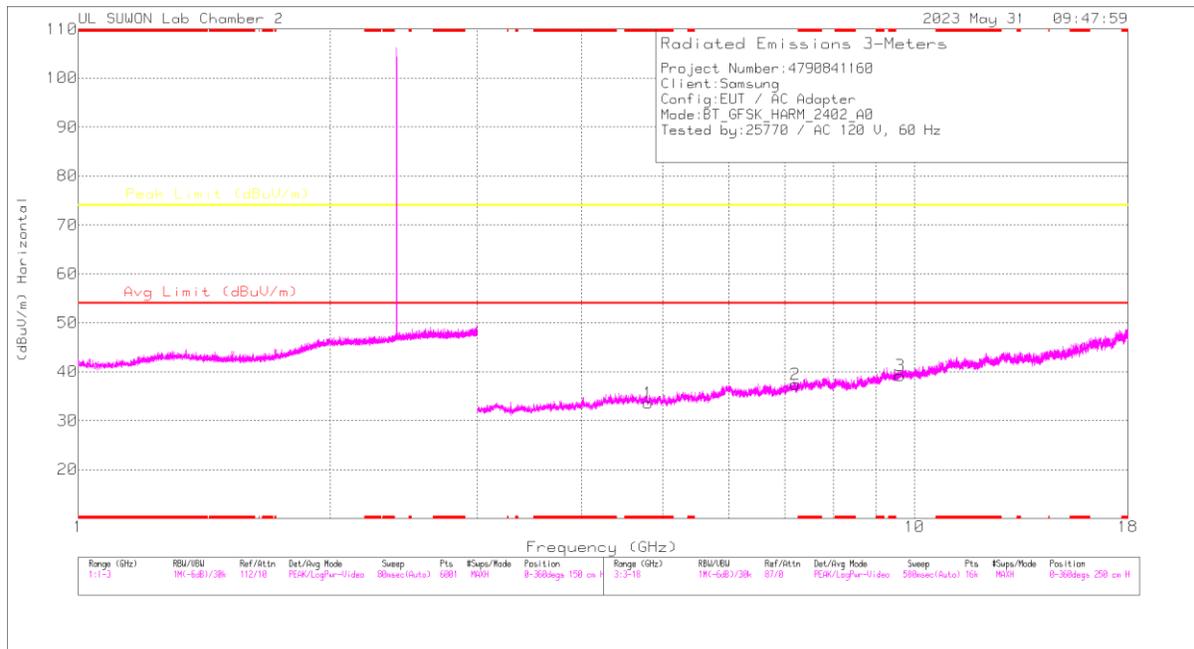
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	40.53	Pk	31.9	-19.6	52.83	-	-	74	-21.17	166	127	H
2	2.54837	43.4	Pk	32	-19.5	55.9	-	-	74	-18.1	166	127	H
3	* 2.48351	30.42	VA1T	31.9	-19.6	42.72	54	-11.28	-	-	166	127	H
4	2.54088	30.77	VA1T	32	-19.5	43.27	54	-10.73	-	-	166	127	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

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: GFSK / 2402 MHz)

2402 MHz HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

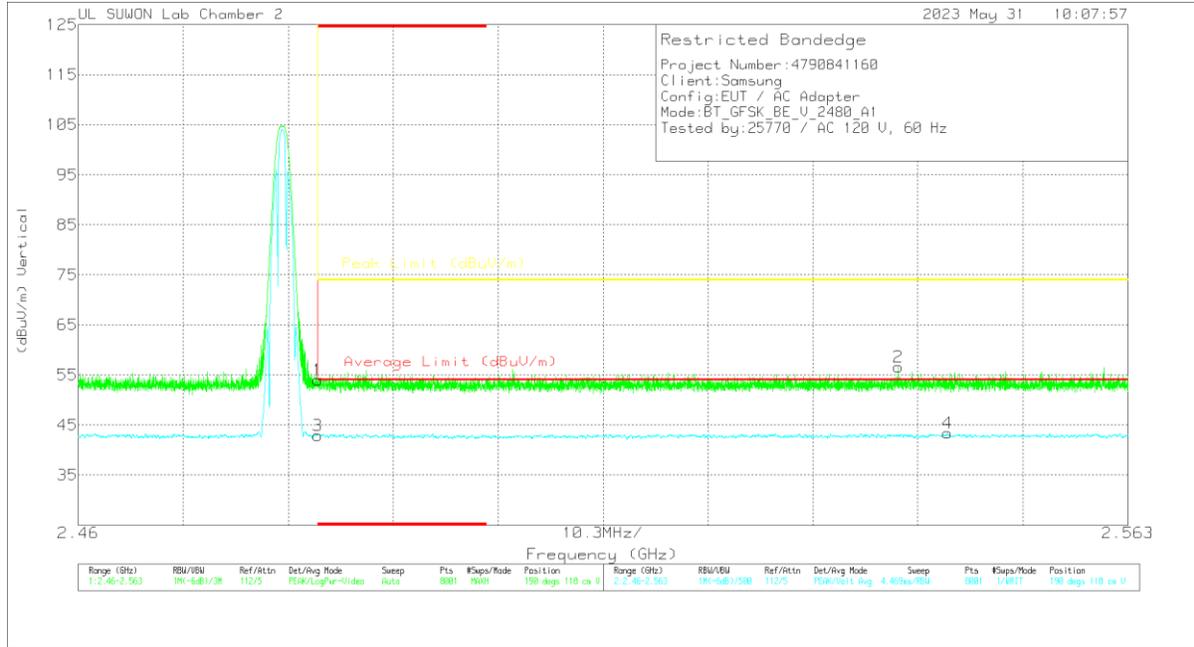
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.61167	31.17	PKFH	36.9	-21.2	46.87	-	-	74	-27.13	0	100	H

* - 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

ANT2

BANDEDGE (WORST CASE : GFSK / 2480 MHz)

2480 MHz VERTICAL



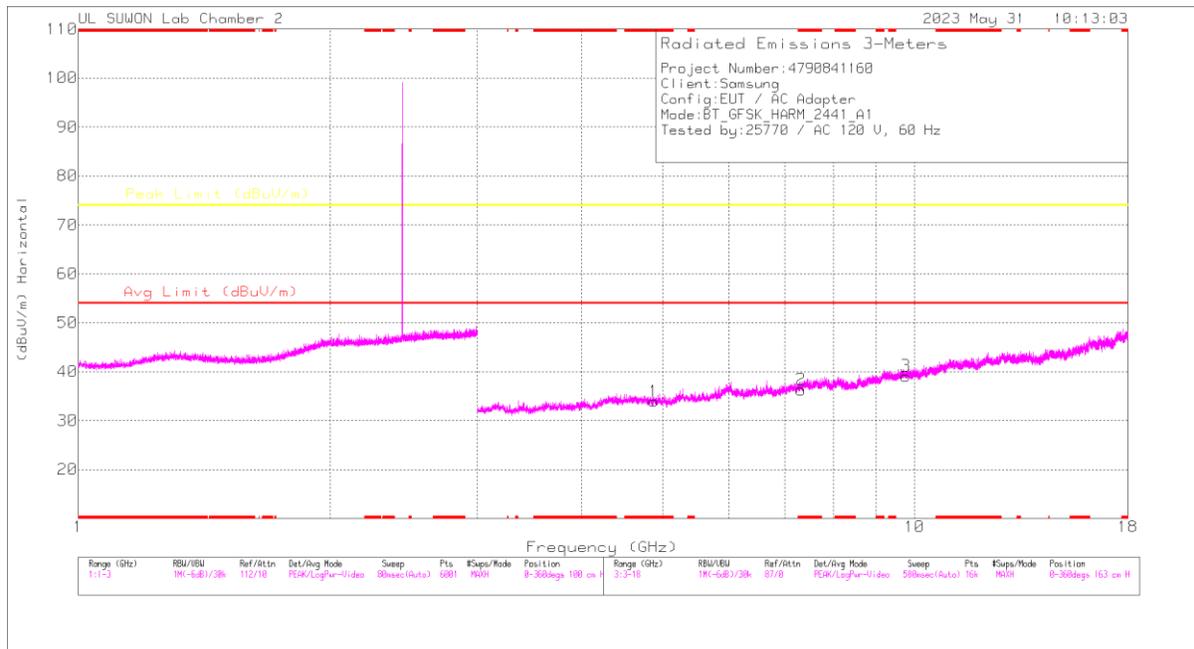
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	41.72	Pk	31.9	-19.6	54.02	-	-	74	-19.98	190	118	V
2	2.54049	44.16	Pk	32	-19.5	56.66	-	-	74	-17.34	190	118	V
3	* 2.48351	30.64	VA1T	31.9	-19.6	42.94	54	-11.06	-	-	190	118	V
4	2.54531	30.8	VA1T	32	-19.4	43.4	54	-10.6	-	-	190	118	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(WORST CASE: GFSK / 2441 MHz)

2441 MHz HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.76551	31.42	PKFH	37.1	-21.2	47.32	-	-	74	-26.68	0	100	H

* - 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

END OF TEST REPORT