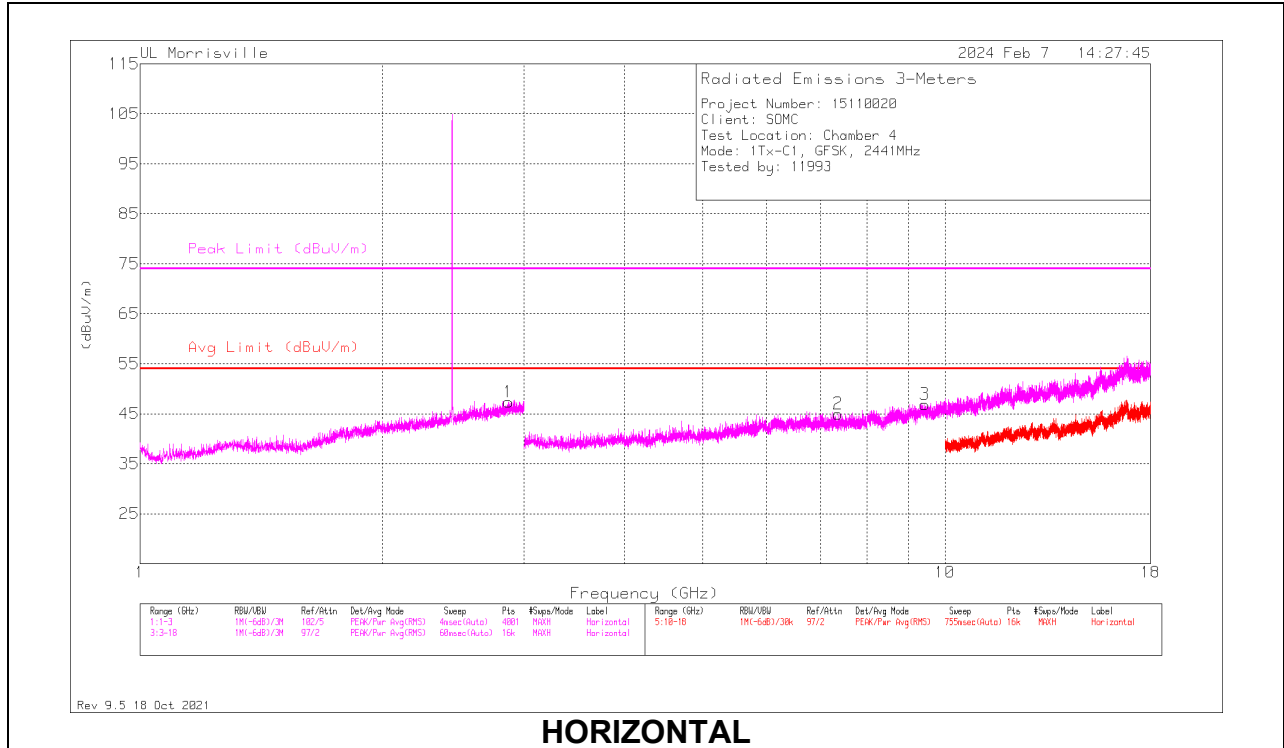
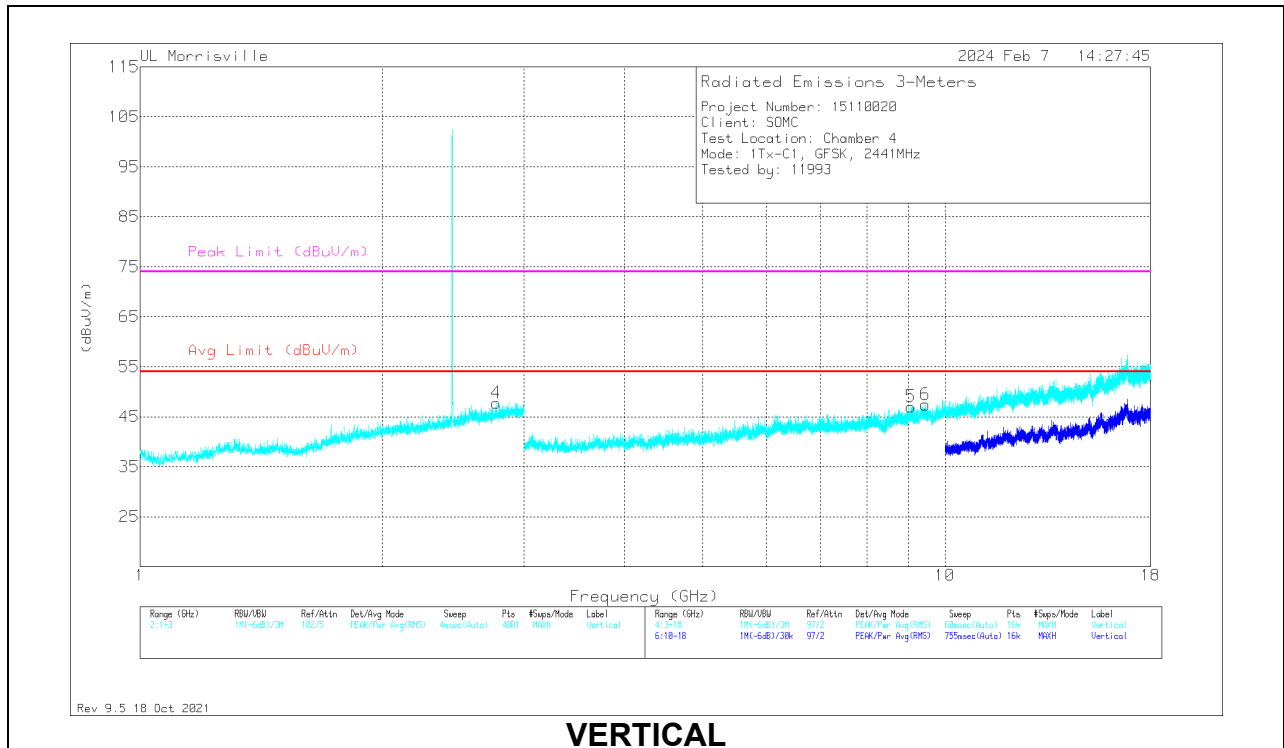


### MID CHANNEL RESULTS



**HORIZONTAL**



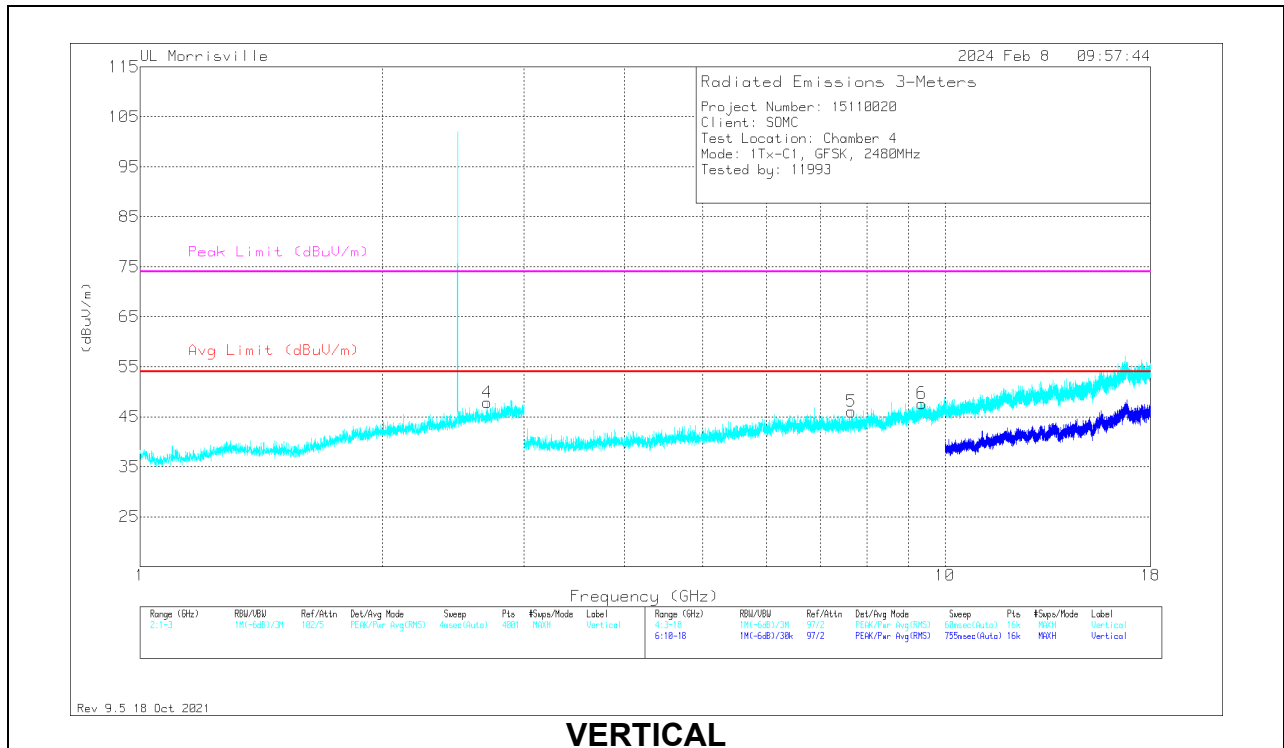
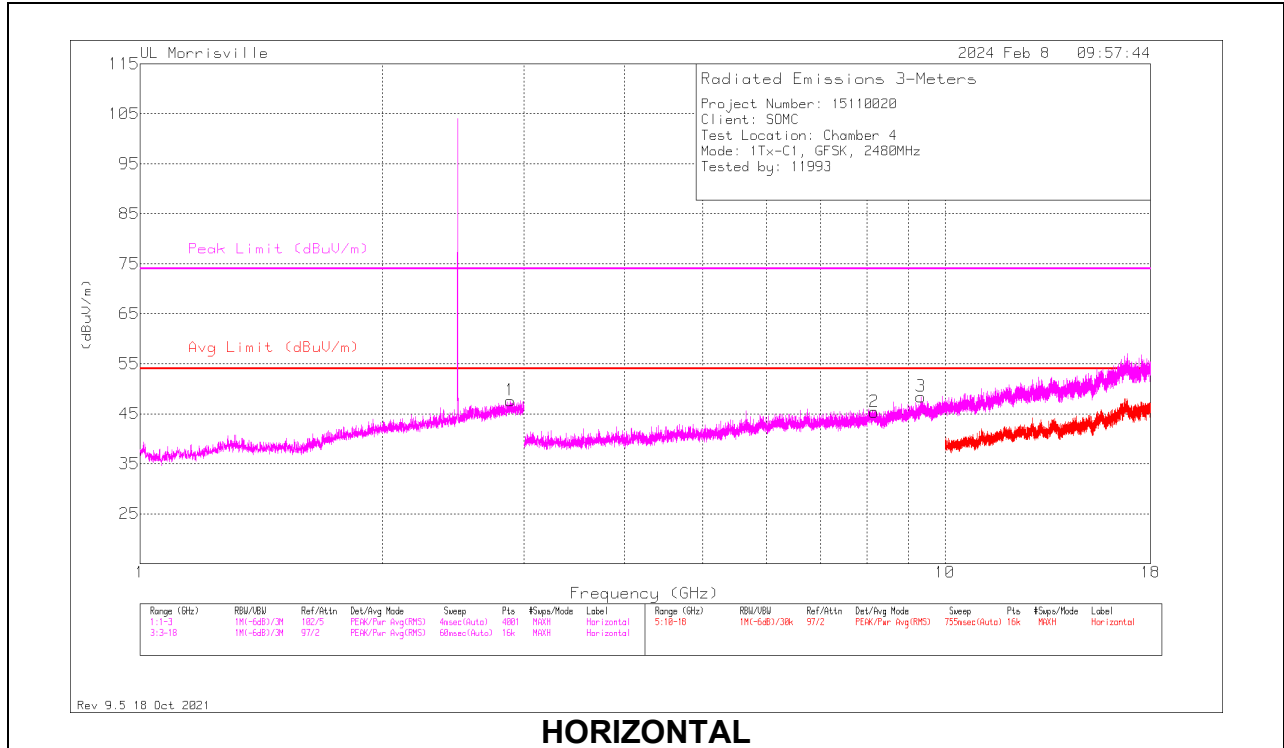
**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.869	27.04	Pk	32.4	-12.1	47.34	54	-6.66	74	-26.66	0-360	100	H
4	*** 2.7715	27.76	Pk	32.5	-12.5	47.76	54	-6.24	74	-26.24	0-360	200	V
2	*** 7.36688	37.57	Pk	35.5	-28.1	44.97	54	-9.03	74	-29.03	0-360	100	H
3	*** 9.43875	35.68	Pk	36.7	-25.5	46.88	54	-7.12	74	-27.12	0-360	100	H
5	*** 9.07031	35.4	Pk	36.2	-24.6	47	54	-7	74	-27	0-360	200	V
6	*** 9.4575	36.53	Pk	36.7	-25.8	47.43	54	-6.57	74	-26.57	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

### HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.884	27.37	Pk	32.4	-12.1	47.67	54	-6.33	74	-26.33	0-360	100	H
4	*** 2.7005	28.15	Pk	32.4	-12.7	47.85	54	-6.15	74	-26.15	0-360	200	V
2	*** 8.1675	36.58	Pk	35.8	-27	45.38	54	-8.62	74	-28.62	0-360	100	H
3	*** 9.3338	36.65	PK2	36.5	-24.7	48.45	-	-	74	-25.55	121	352	H
	*** 9.33644	22.79	V1TV	36.5	-24.7	34.59	54	-19.41	-	-	121	352	H
5	*** 7.64531	37.84	Pk	35.7	-27.5	46.04	54	-7.96	74	-27.96	0-360	200	V
6	*** 9.3525	36.14	Pk	36.5	-25	47.64	54	-6.36	74	-26.36	0-360	200	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

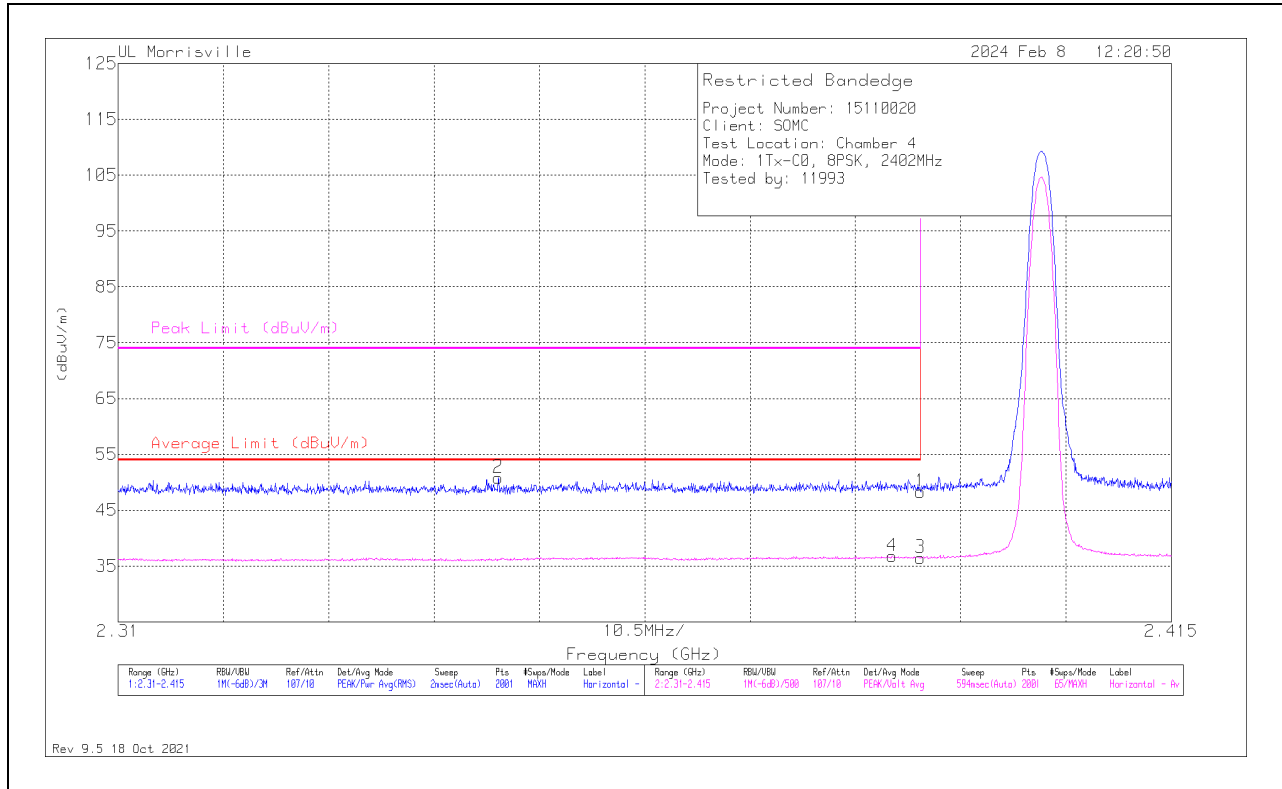
V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration. VBW is set to 500 Hz.

## 10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

**Chain 0**

**BANDEDGE (LOW CHANNEL)**

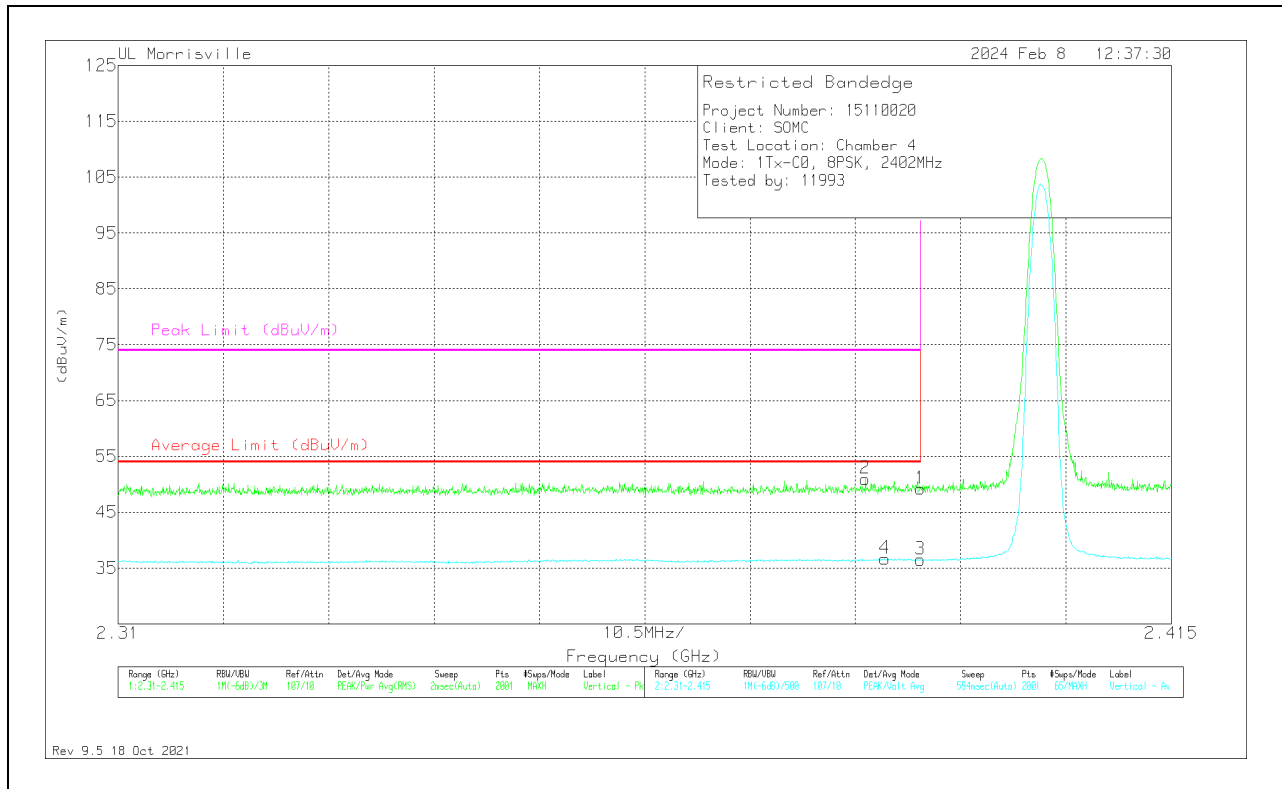
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/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	* ** 2.38996	29.52	Pk	32	-13.2	48.32	-	-	74	-25.68	248	151	H
2	* ** 2.34791	32.13	Pk	31.8	-13.1	50.83	-	-	74	-23.17	248	151	H
3	* ** 2.38996	17.66	V1TV	32	-13.2	36.46	54	-17.54	-	-	248	151	H
4	* ** 2.38718	17.87	V1TV	32	-13.1	36.77	54	-17.23	-	-	248	151	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT

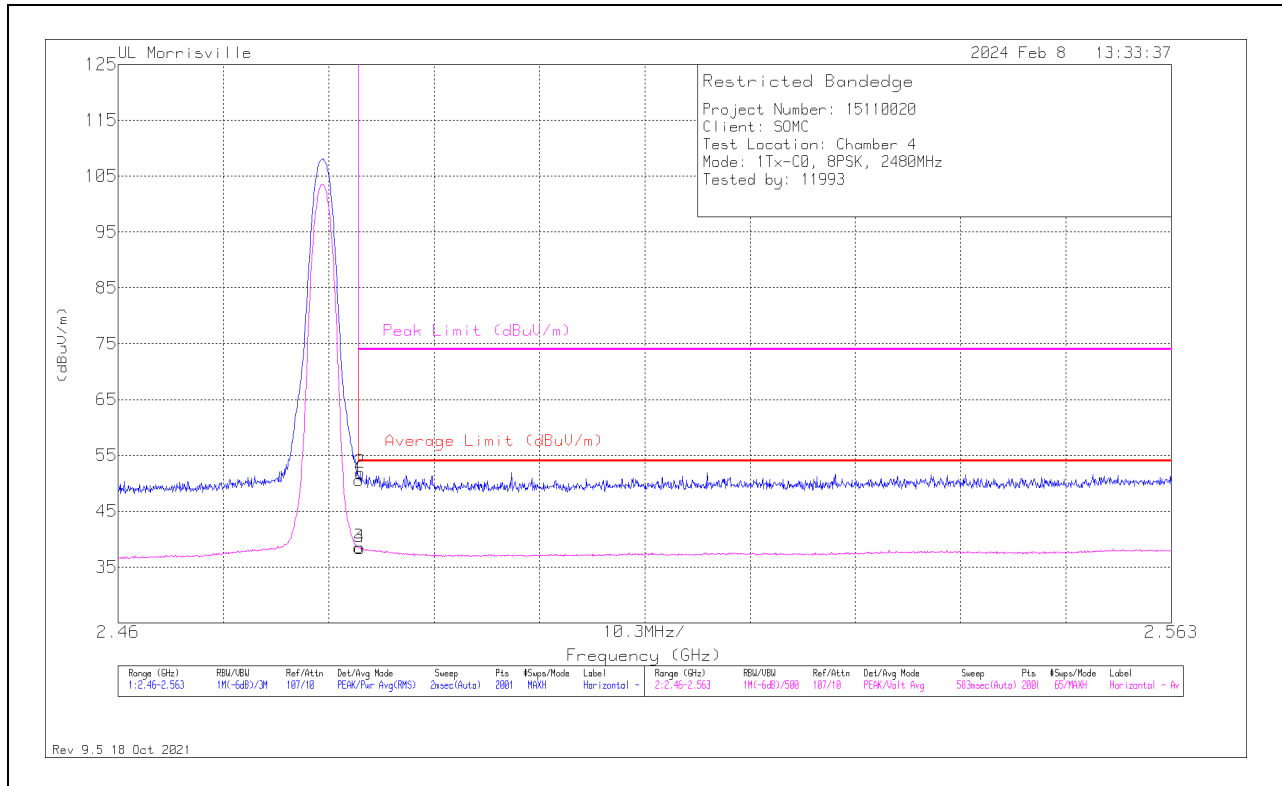


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	30.42	Pk	32	-13.2	49.22	-	-	74	-24.78	327	275	V
2	*** 2.3845	32.19	Pk	32	-13.2	50.99	-	-	74	-23.01	327	275	V
3	*** 2.38996	17.72	V1TV	32	-13.2	36.52	54	-17.48	-	-	327	275	V
4	*** 2.38644	17.79	V1TV	32	-13.1	36.69	54	-17.31	-	-	327	275	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

**BANDEDGE (HIGH CHANNEL)**

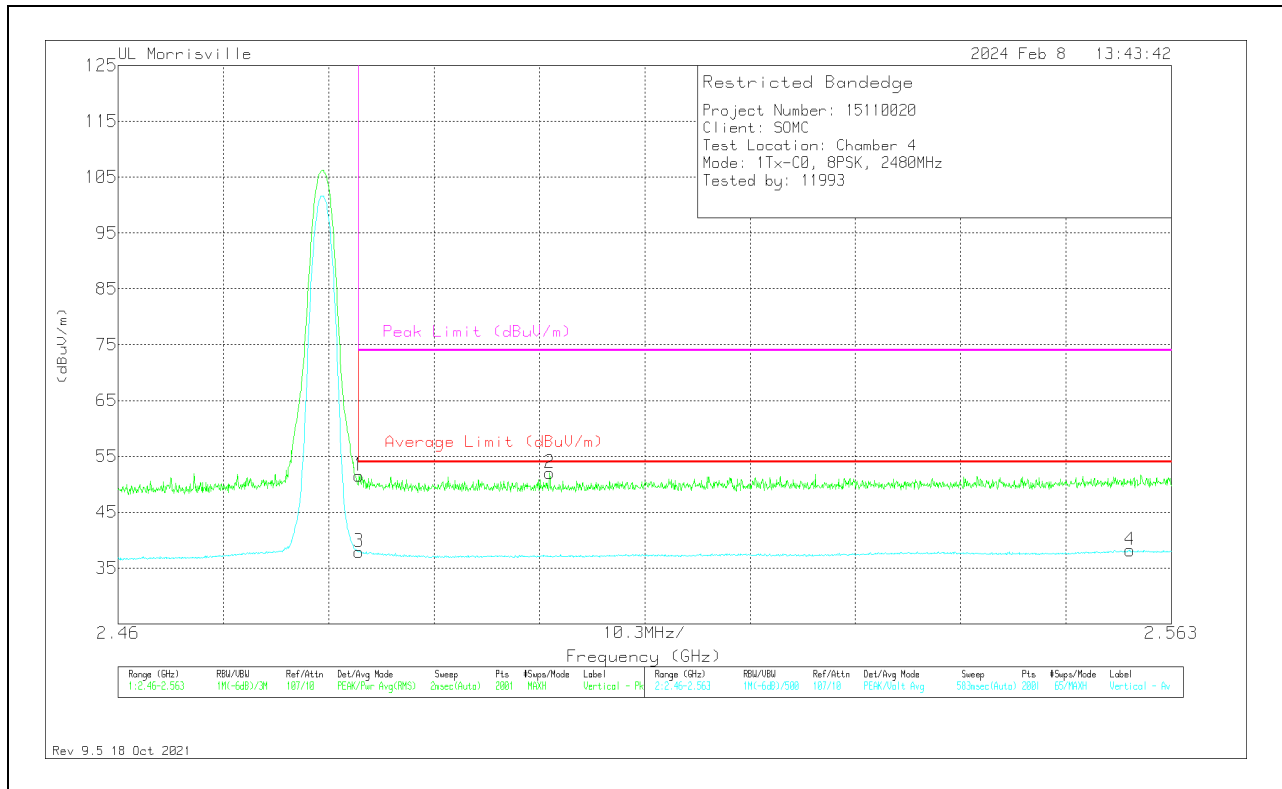
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/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	* ** 2.48354	31.22	Pk	32.3	-12.9	50.62	-	-	74	-23.38	256	234	H
2	* ** 2.48369	32.51	Pk	32.3	-12.9	51.91	-	-	74	-22.09	256	234	H
3	* ** 2.48354	19.16	V1TV	32.3	-12.9	38.56	54	-15.44	-	-	256	234	H
4	* ** 2.48364	19.05	V1TV	32.3	-12.9	38.45	54	-15.55	-	-	256	234	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT



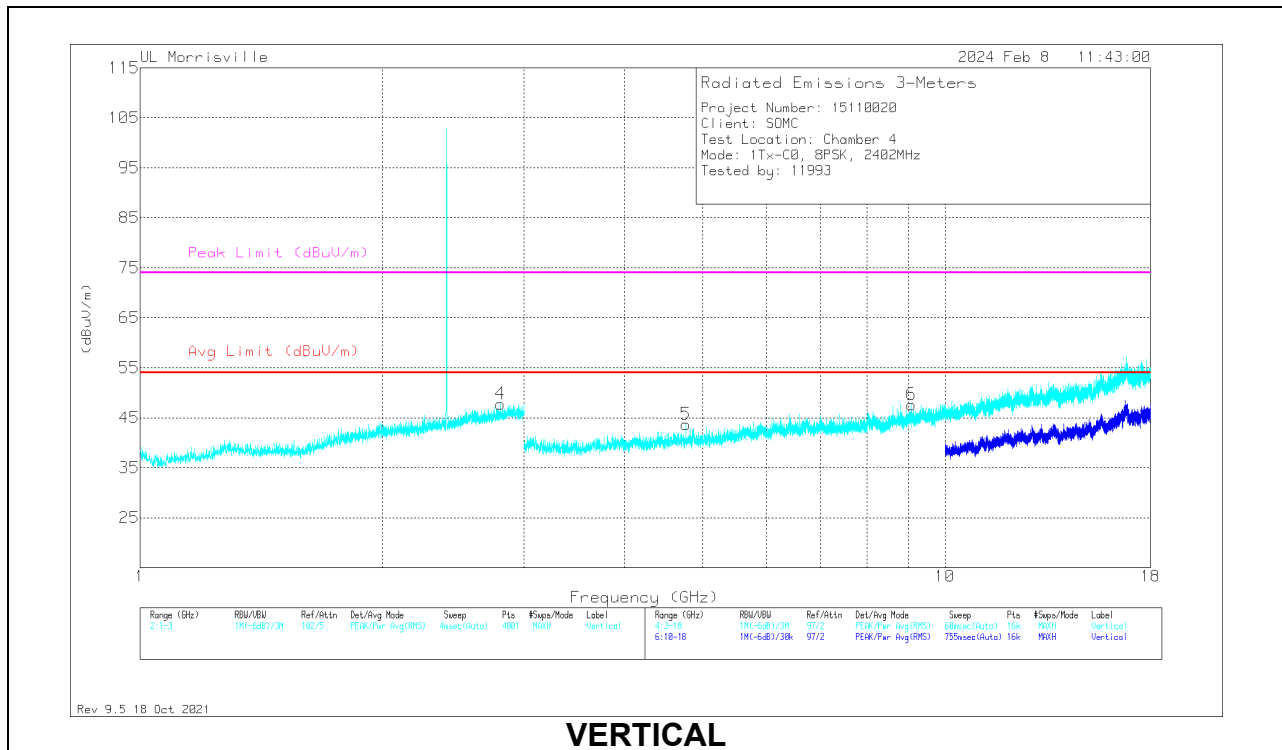
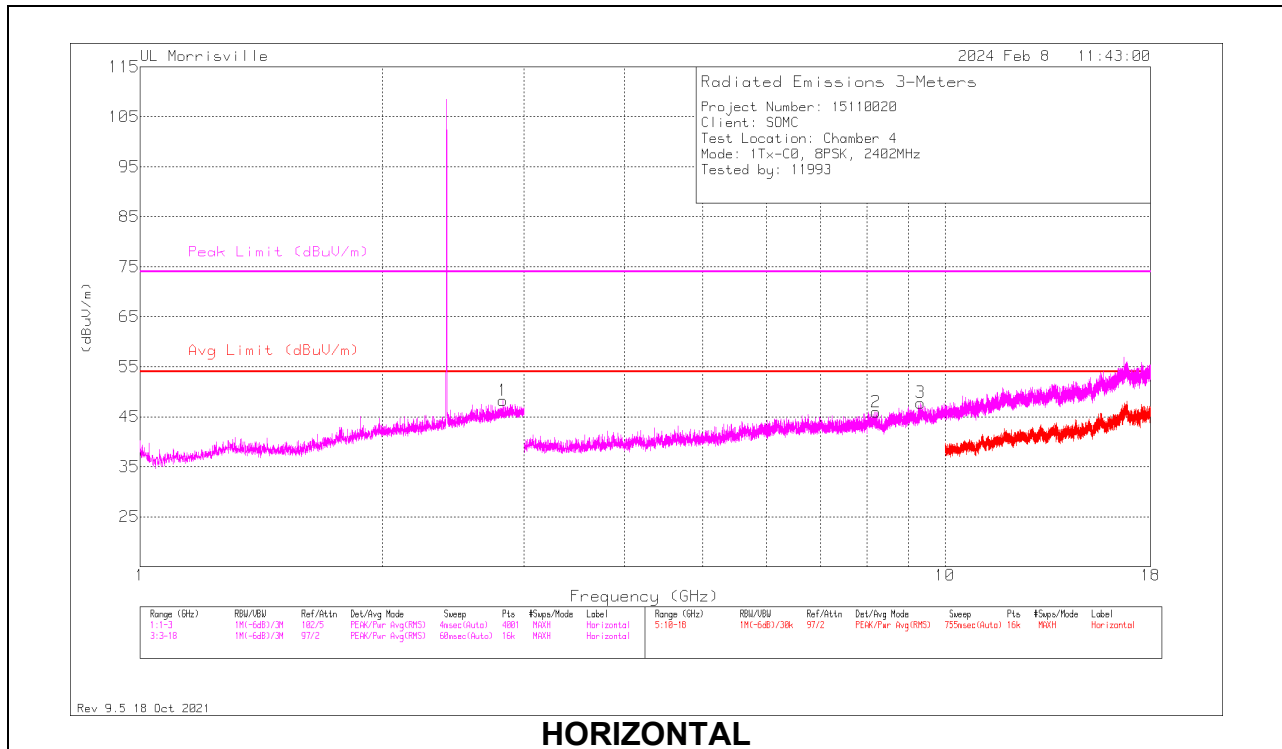
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	32.16	Pk	32.3	-12.9	51.56	-	-	74	-22.44	329	329	V
2	** 2.50218	32.73	Pk	32.3	-13	52.03	-	-	74	-21.97	329	329	V
3	*** 2.48354	18.52	V1TV	32.3	-12.9	37.92	54	-16.08	-	-	329	329	V
4	** 2.55893	18.42	V1TV	32.5	-12.7	38.22	54	-15.78	-	-	329	329	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration



**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.81981	27.98	PK2	32.4	-12.3	48.08	-	-	74	-25.92	65	257	H
	*** 2.82344	13.67	V1TV	32.4	-12.3	33.77	54	-20.23	-	-	65	257	H
4	*** 2.805	27.48	Pk	32.6	-12.3	47.78	54	-6.22	74	-26.22	0-360	200	V
2	*** 8.21063	36.73	Pk	35.8	-26.6	45.93	54	-8.07	74	-28.07	0-360	100	H
3	*** 9.32344	36.29	Pk	36.4	-24.9	47.79	54	-6.21	74	-26.21	0-360	100	H
5	*** 4.76344	41.3	Pk	34	-31.6	43.7	54	-10.3	74	-30.3	0-360	200	V
6	*** 9.08063	36.05	Pk	36.3	-24.7	47.65	54	-6.35	74	-26.35	0-360	200	V

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

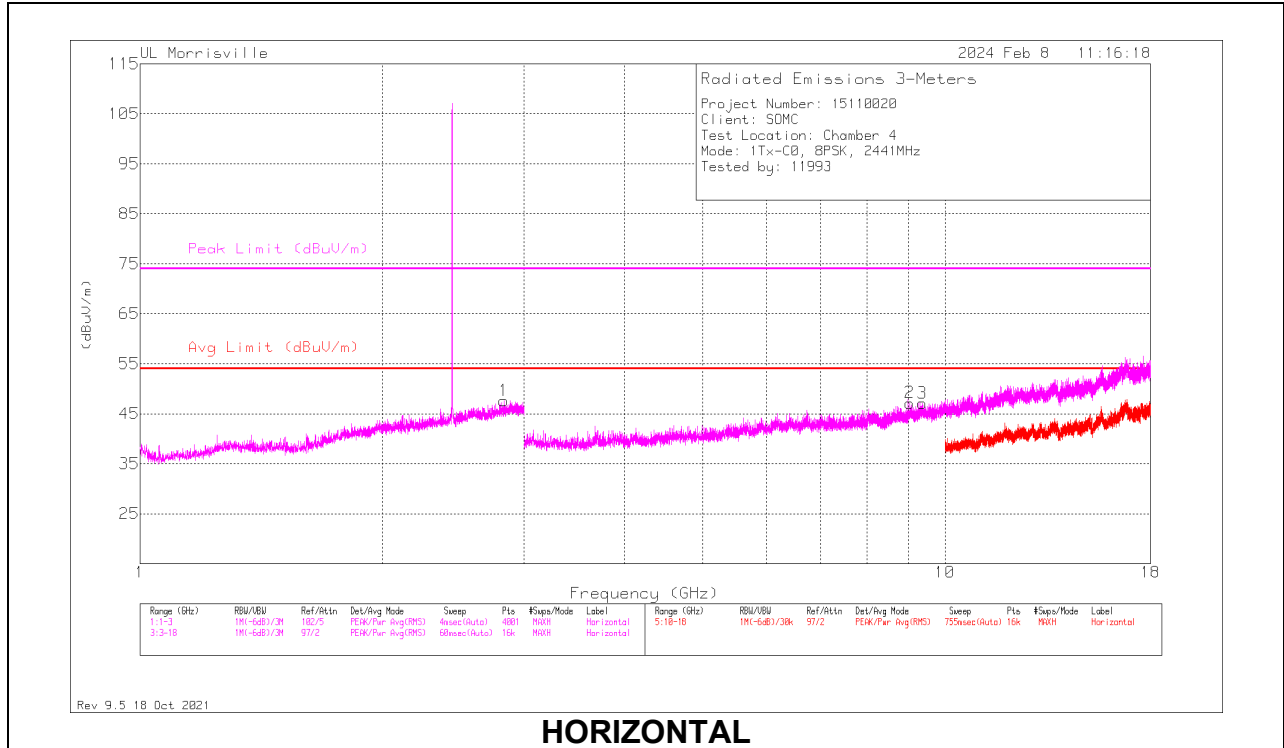
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

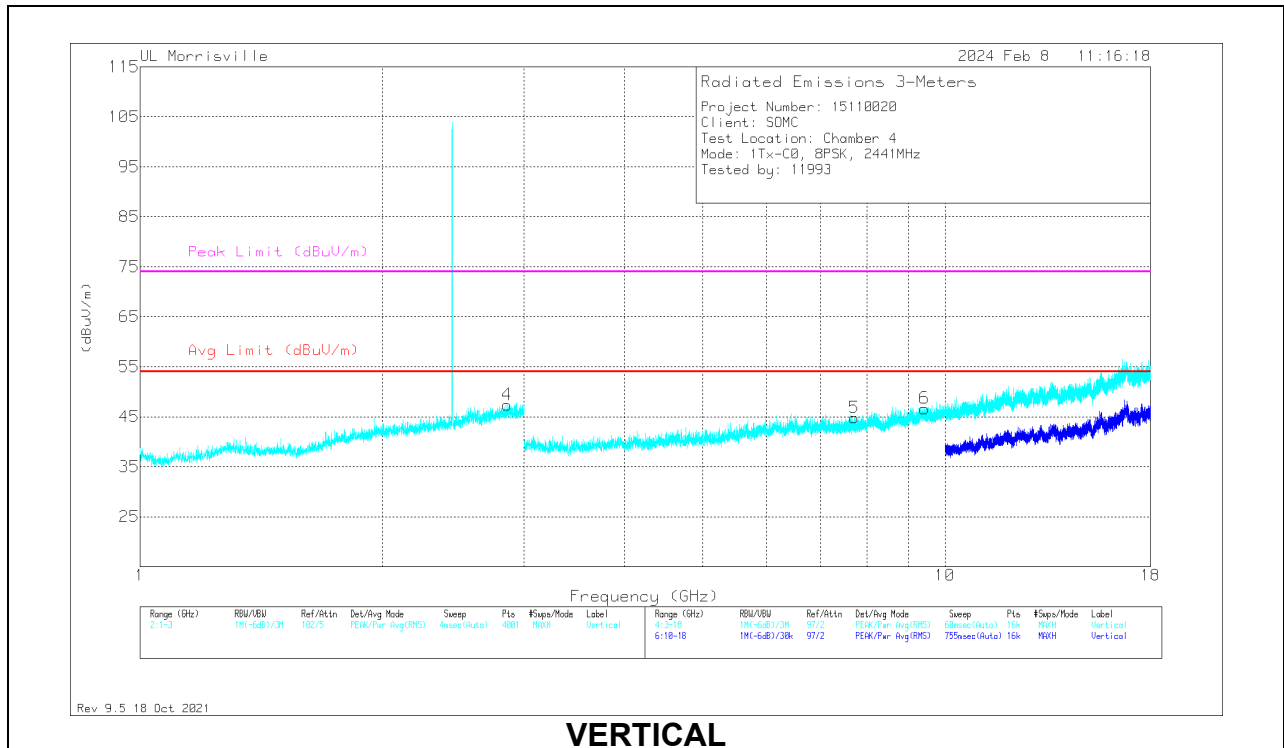
PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration. VBW is set to 500 Hz.

### MID CHANNEL RESULTS



### HORIZONTAL



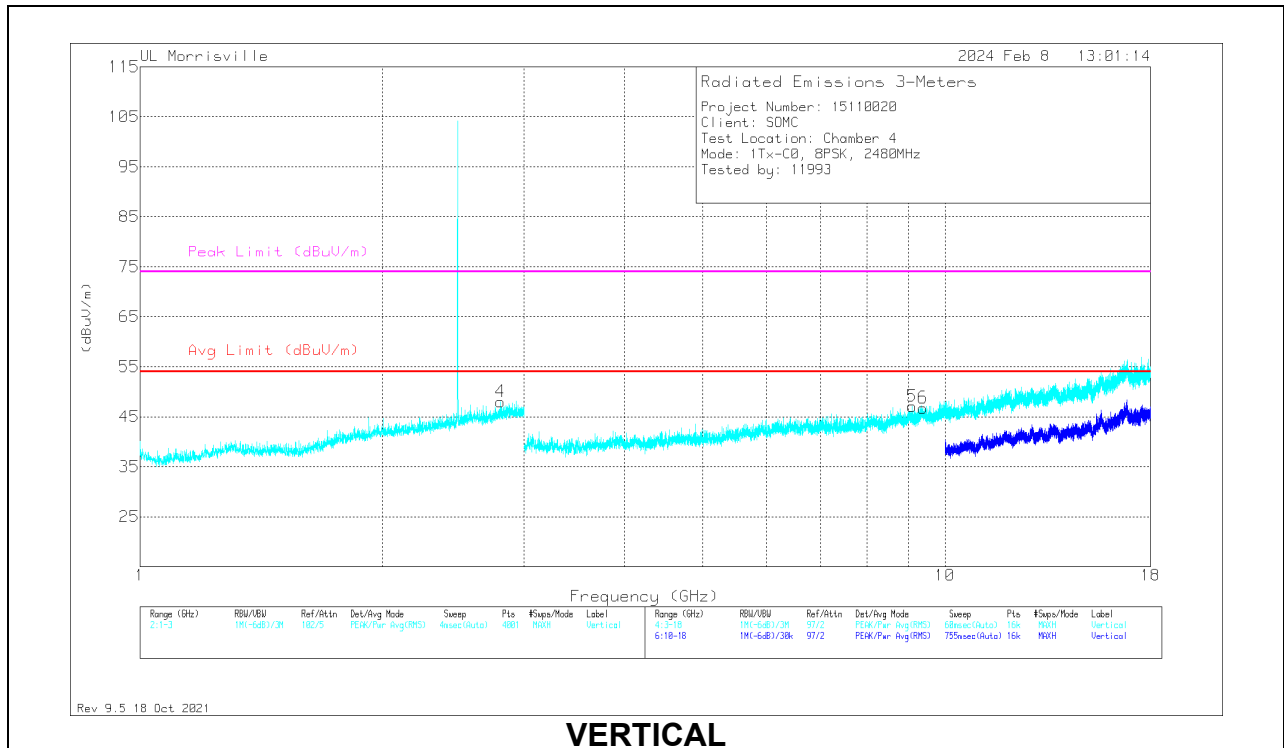
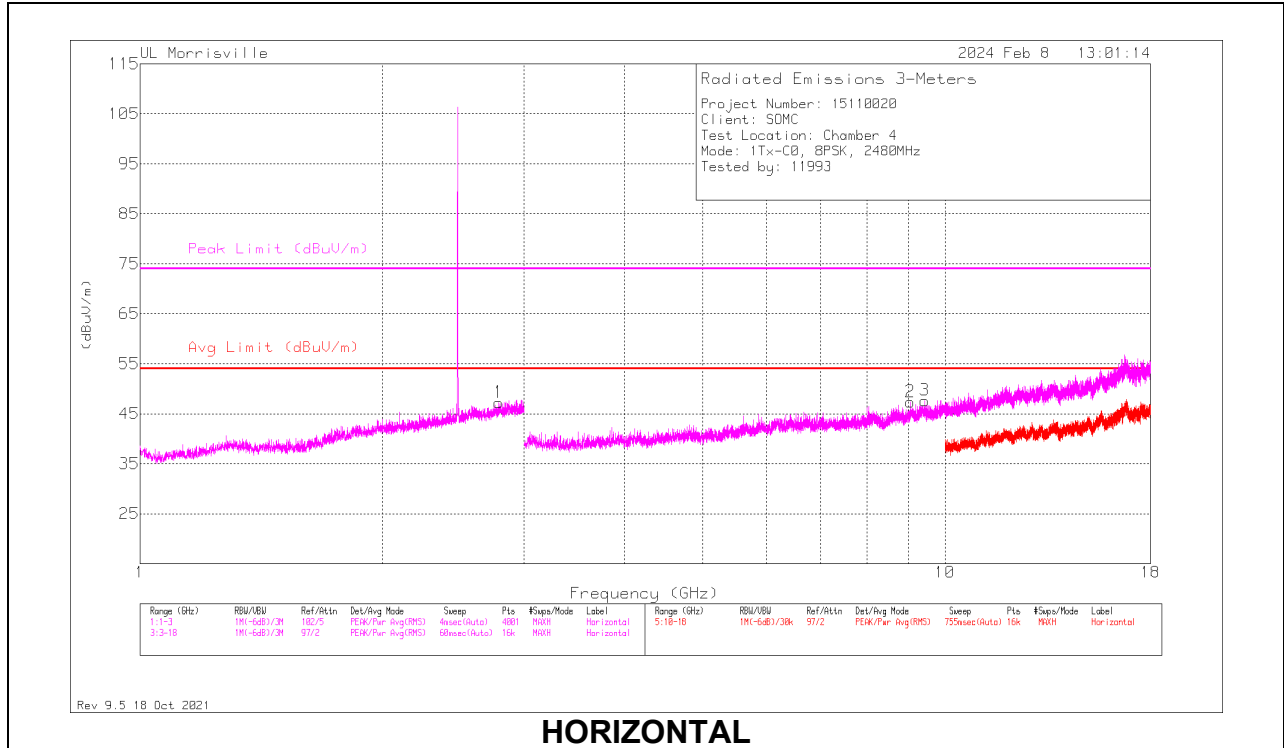
### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.8305	27.49	Pk	32.4	-12.3	47.59	54	-6.41	74	-26.41	0-360	100	H
4	* ** 2.856	27.18	Pk	32.4	-12.2	47.38	54	-6.62	74	-26.62	0-360	200	V
2	* ** 9.03938	35.45	Pk	36.2	-24.5	47.15	54	-6.85	74	-26.85	0-360	100	H
3	* ** 9.375	35.48	Pk	36.6	-25	47.08	54	-6.92	74	-26.92	0-360	100	H
5	* ** 7.71469	36.57	Pk	35.7	-27.5	44.77	54	-9.23	74	-29.23	0-360	200	V
6	* ** 9.42844	35.55	Pk	36.7	-25.6	46.65	54	-7.35	74	-27.35	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

### HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

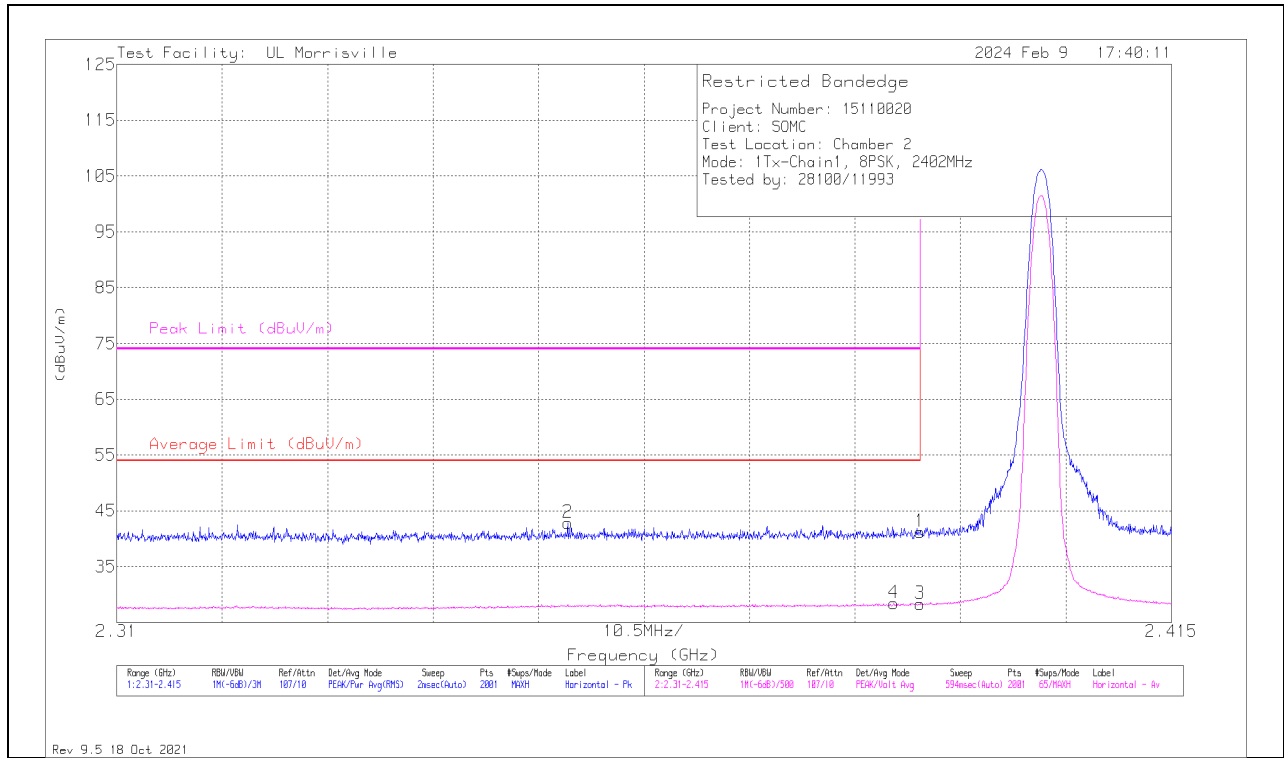
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.789	27.04	Pk	32.6	-12.4	47.24	54	-6.76	74	-26.76	0-360	100	H
4	*** 2.8035	27.69	Pk	32.6	-12.3	47.99	54	-6.01	74	-26.01	0-360	200	V
2	*** 9.05813	35.77	Pk	36.2	-24.6	47.37	54	-6.63	74	-26.63	0-360	100	H
3	*** 9.44063	36.37	Pk	36.7	-25.4	47.67	54	-6.33	74	-26.33	0-360	100	H
5	*** 9.10031	35.57	Pk	36.3	-24.8	47.07	54	-6.93	74	-26.93	0-360	200	V
6	*** 9.38531	35.26	Pk	36.6	-25.1	46.76	54	-7.24	74	-27.24	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

**Chain 1**

**BANDEDGE (LOW CHANNEL)**

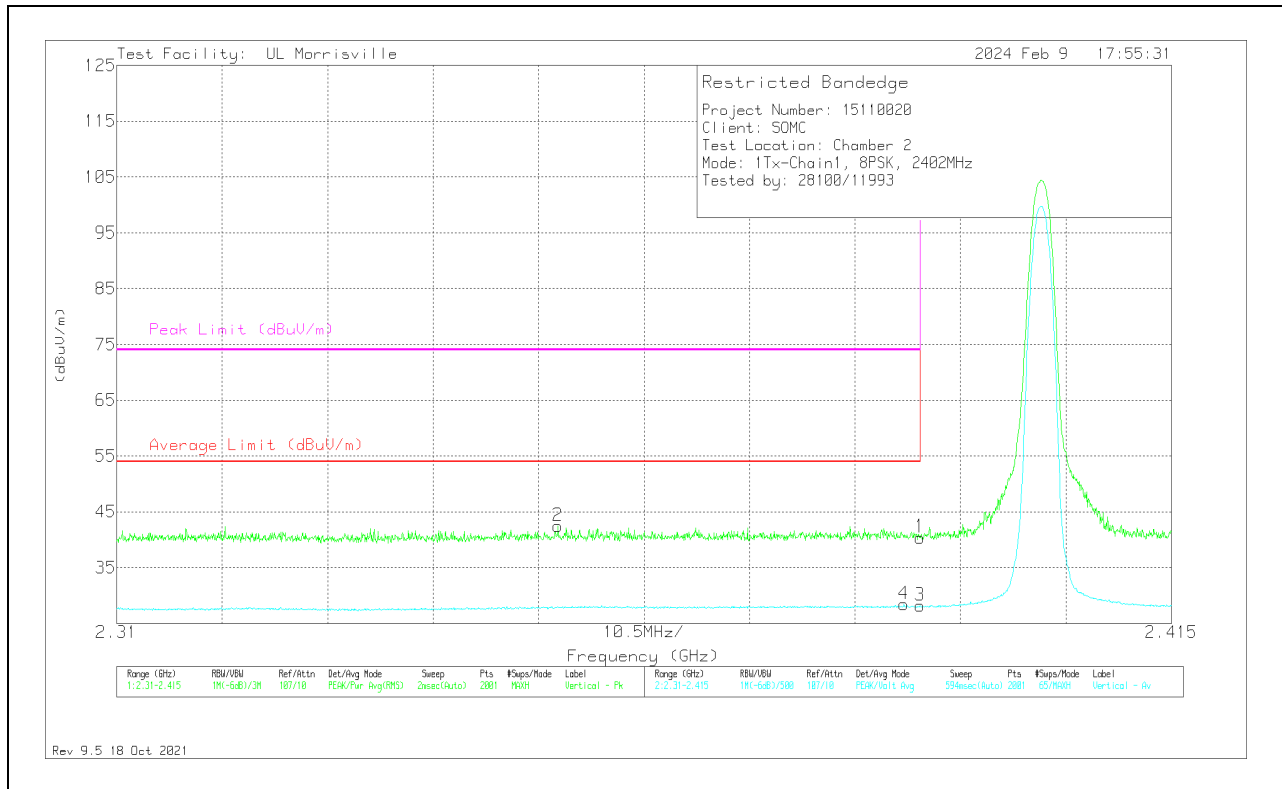
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/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	*** 2.38996	33.08	Pk	32.3	-24.2	41.18	-	-	74	-32.82	183	101	H
2	*** 2.35489	34.64	Pk	32.1	-23.9	42.84	-	-	74	-31.16	183	101	H
3	*** 2.38996	20.22	V1TV	32.3	-24.2	28.32	54	-25.68	-	-	183	101	H
4	*** 2.38739	20.44	V1TV	32.2	-24.2	28.44	54	-25.56	-	-	183	101	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT



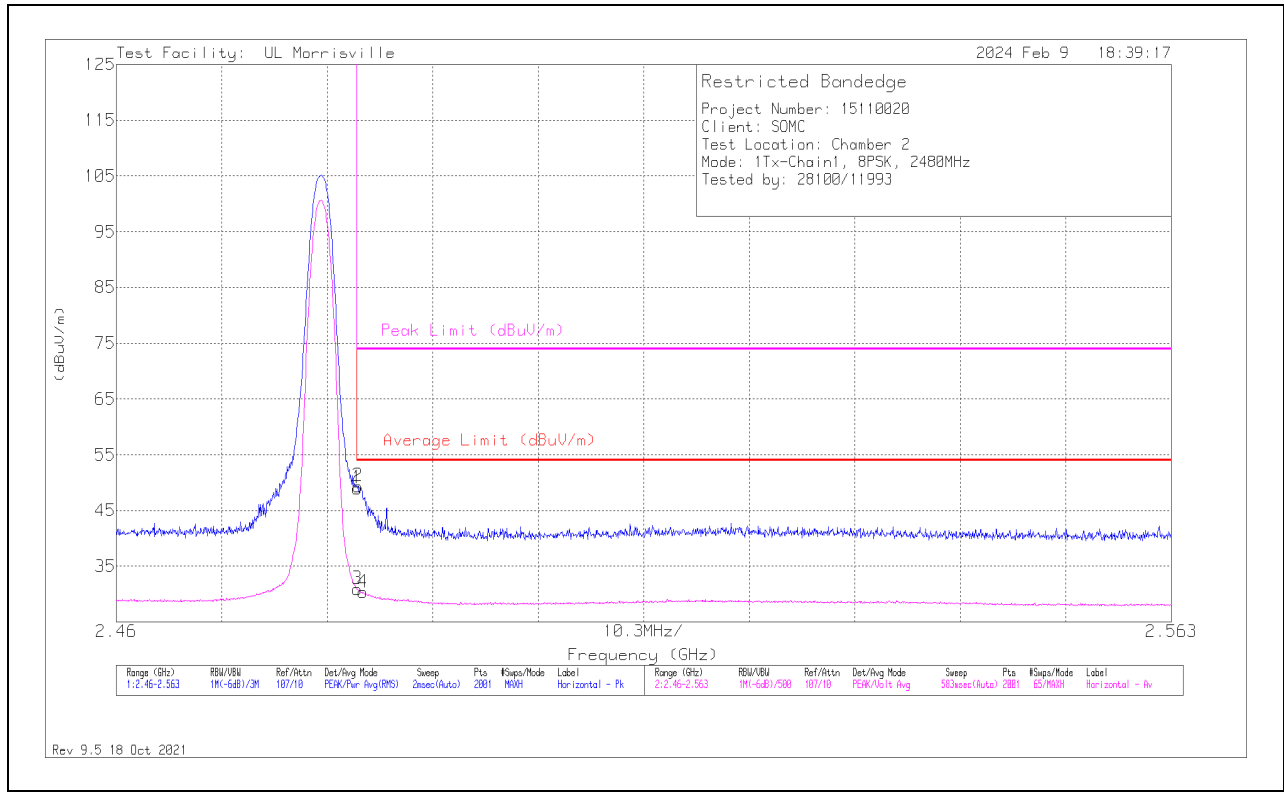
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	32.32	Pk	32.3	-24.2	40.42	-	-	74	-33.58	121	103	V
2	*** 2.35394	34.24	Pk	32.1	-23.9	42.44	-	-	74	-31.56	121	103	V
3	*** 2.38996	20.06	V1TV	32.3	-24.2	28.16	54	-25.84	-	-	121	103	V
4	*** 2.38838	20.3	V1TV	32.3	-24.2	28.4	54	-25.6	-	-	121	103	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration



**BANDEDGE (HIGH CHANNEL)**

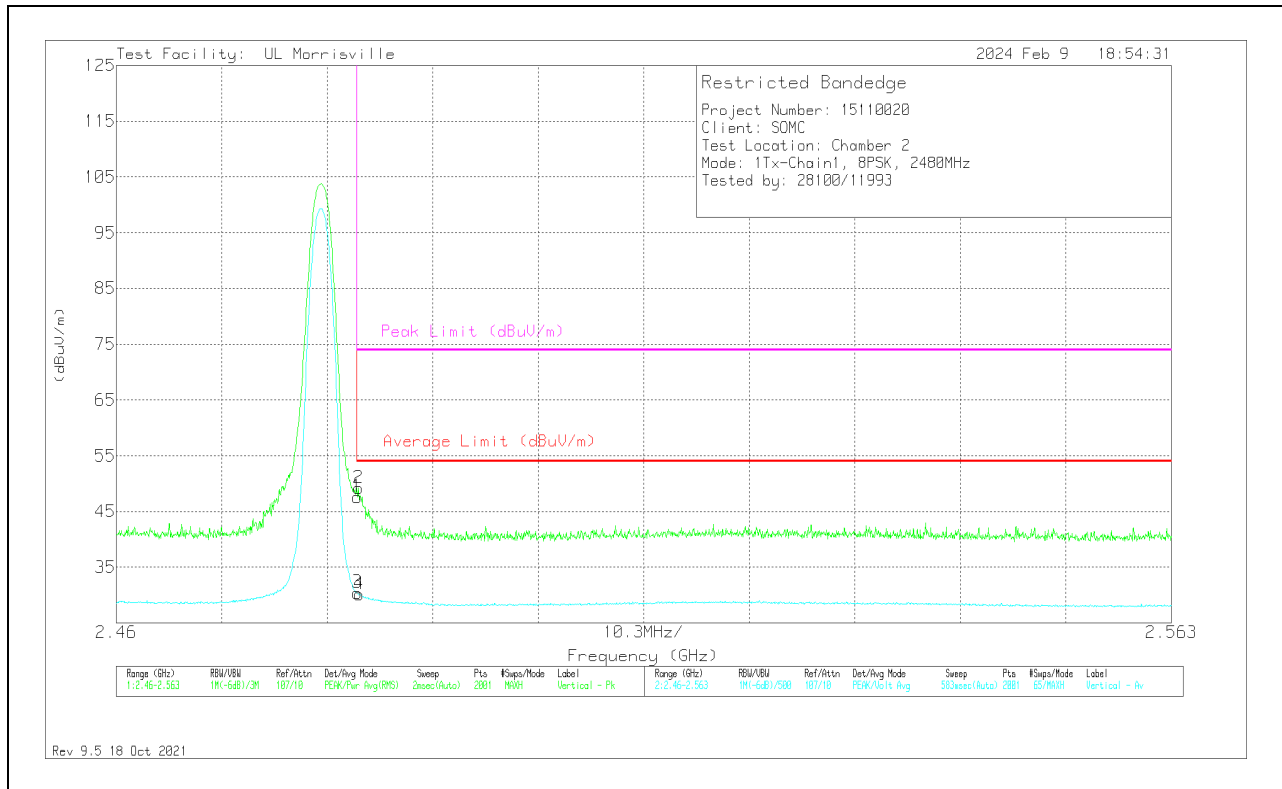
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/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	* ** 2.48354	40.95	Pk	32.5	-24.5	48.95	-	-	74	-25.05	179	102	H
2	* ** 2.48359	41.36	Pk	32.5	-24.5	49.36	-	-	74	-24.64	179	102	H
3	* ** 2.48354	22.91	V1TV	32.5	-24.5	30.91	54	-23.09	-	-	179	102	H
4	* ** 2.4841	22.36	V1TV	32.5	-24.5	30.36	54	-23.64	-	-	179	102	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT

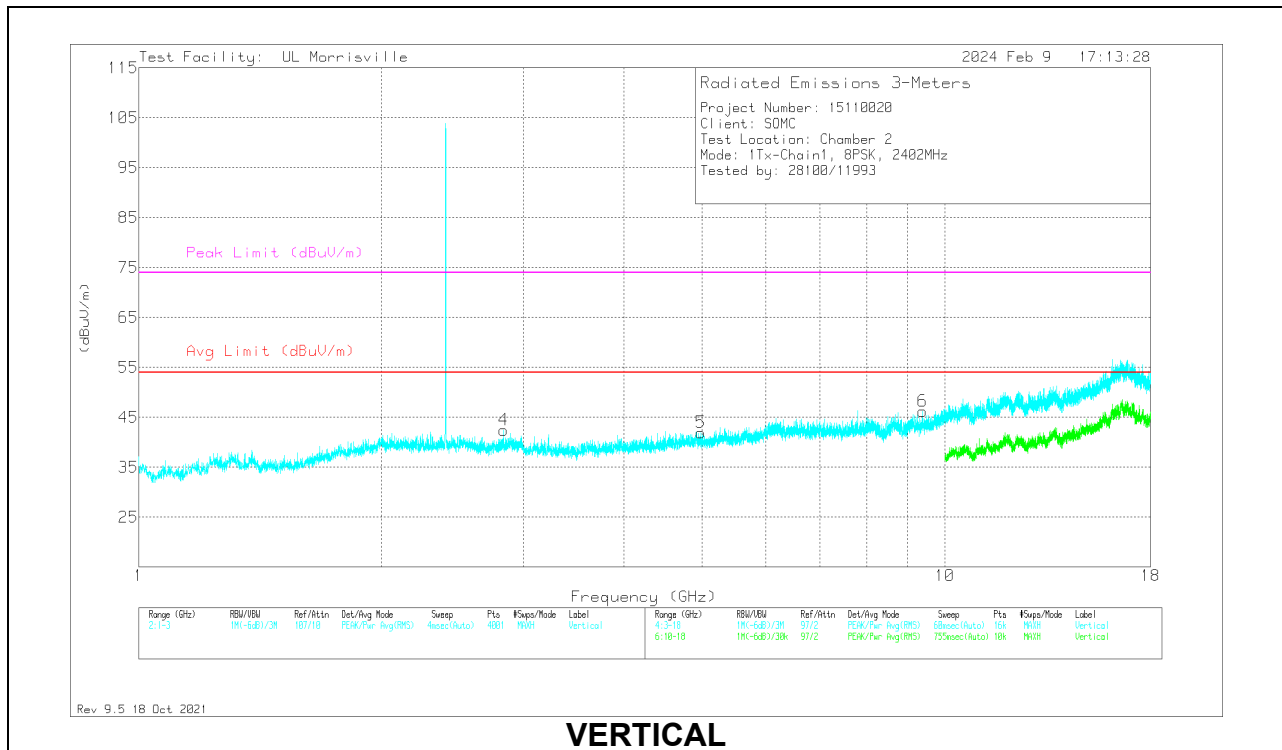
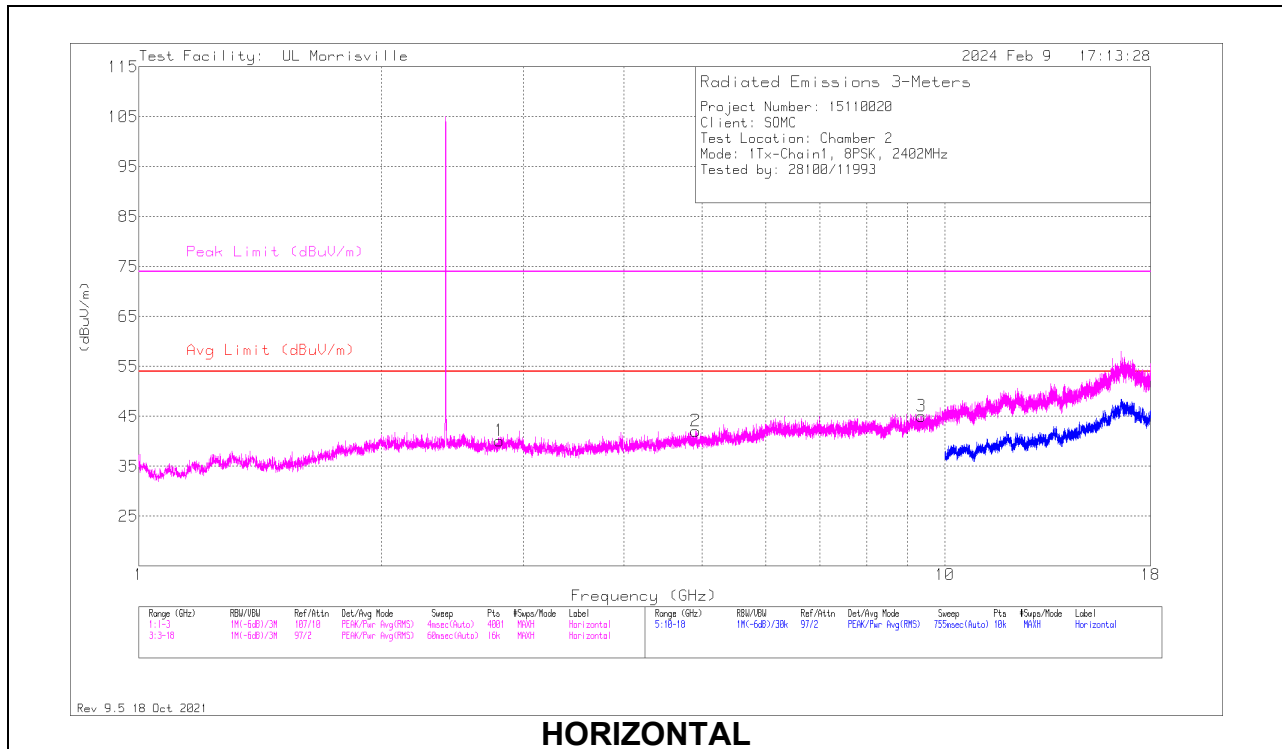


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	39.58	Pk	32.5	-24.5	47.58	-	-	74	-26.42	124	101	V
2	*** 2.48364	41.19	Pk	32.5	-24.5	49.19	-	-	74	-24.81	124	101	V
3	*** 2.48354	22.46	V1TV	32.5	-24.5	30.46	54	-23.54	-	-	124	101	V
4	*** 2.48374	22.12	V1TV	32.5	-24.5	30.12	54	-23.88	-	-	124	101	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - U-NII: VB=1/Ton, Linear Voltage Average where: Ton is packet duration

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**RADIATED EMISSIONS**

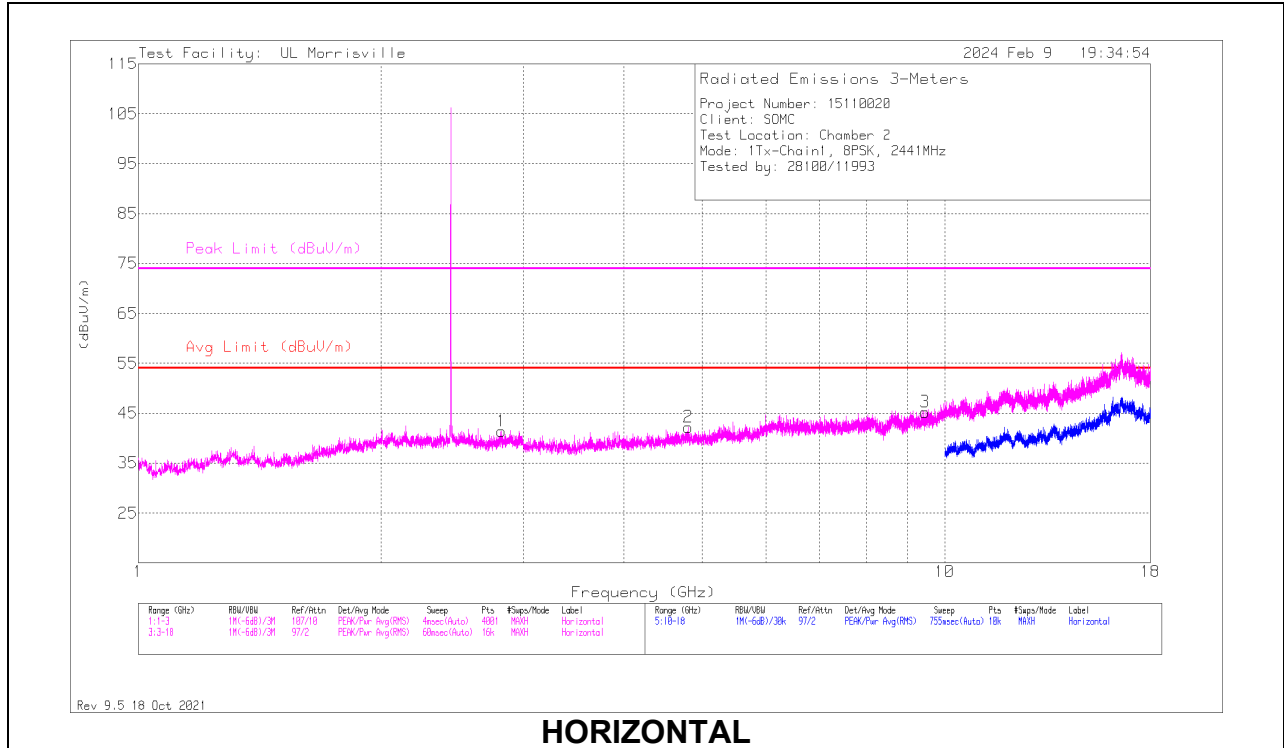
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.8	33.46	Pk	32.5	-25.9	40.06	54	-13.94	74	-33.94	0-360	101	H
4	*** 2.837	35.87	Pk	32.6	-26	42.47	54	-11.53	74	-31.53	0-360	200	V
2	*** 4.90875	38.02	Pk	34.1	-30	42.12	54	-11.88	74	-31.88	0-360	101	H
3	*** 9.36281	34.72	Pk	36.1	-25.8	45.02	54	-8.98	74	-28.98	0-360	101	H
5	*** 4.97719	38.3	Pk	34	-30.4	41.9	54	-12.1	74	-32.1	0-360	101	V
6	*** 9.39094	35.7	Pk	36.2	-25.7	46.2	54	-7.8	74	-27.8	0-360	199	V

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

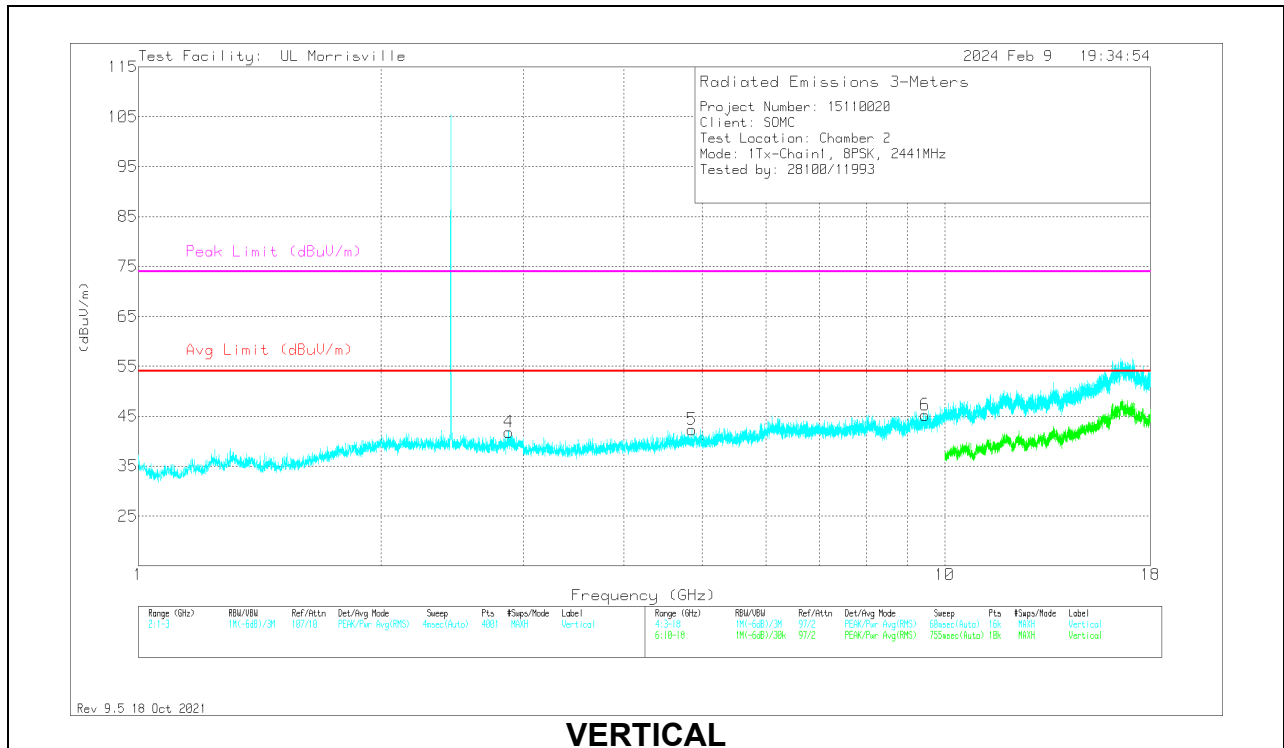
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

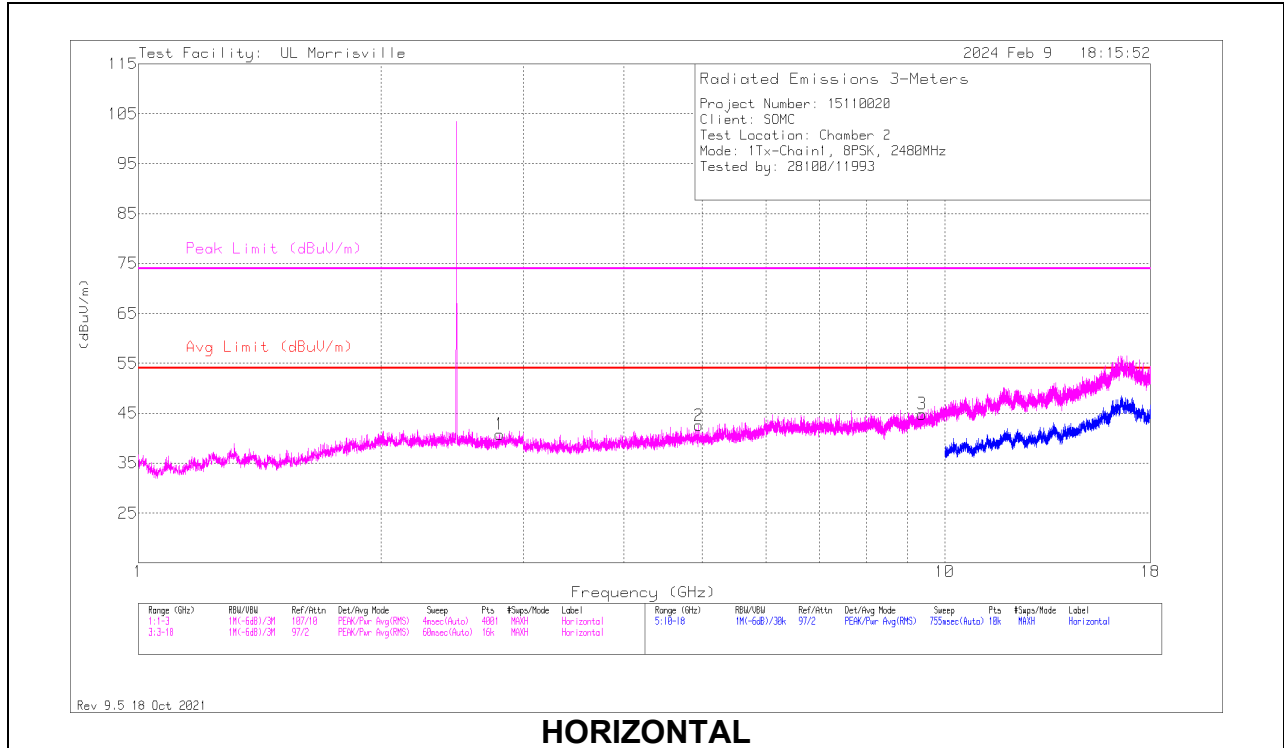
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.821	34.76	Pk	32.5	-25.9	41.36	54	-12.64	74	-32.64	0-360	101	H
4	*** 2.8795	35.05	Pk	32.7	-25.9	41.85	54	-12.15	74	-32.15	0-360	101	V
2	*** 4.80656	38.04	Pk	34.2	-30	42.24	54	-11.76	74	-31.76	0-360	199	H
3	*** 9.45188	34.36	Pk	36.3	-25.4	45.26	54	-8.74	74	-28.74	0-360	199	H
5	*** 4.85625	38.52	Pk	34.1	-30.3	42.32	54	-11.68	74	-31.68	0-360	200	V
6	*** 9.4575	34.16	Pk	36.3	-25.2	45.26	54	-8.74	74	-28.74	0-360	200	V

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

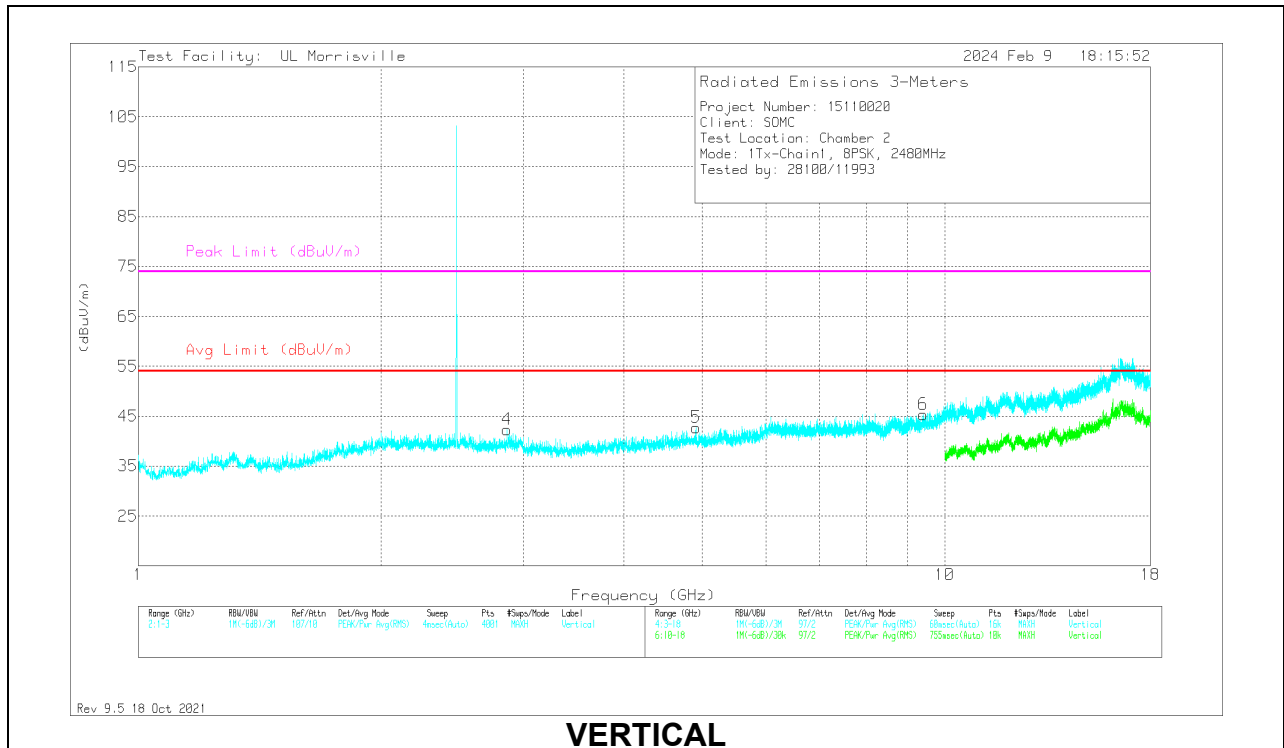
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.8055	34.11	Pk	32.5	-25.9	40.71	54	-13.29	74	-33.29	0-360	200	H
4	*** 2.8645	35.75	Pk	32.6	-26	42.35	54	-11.65	74	-31.65	0-360	200	V
2	*** 4.95563	38.72	Pk	34	-30.2	42.52	54	-11.48	74	-31.48	0-360	101	H
3	*** 9.37219	34.04	Pk	36.1	-25.3	44.84	54	-9.16	74	-29.16	0-360	199	H
5	*** 4.91906	38.82	Pk	34.1	-30.2	42.72	54	-11.28	74	-31.28	0-360	199	V
6	*** 9.41156	34.46	Pk	36.2	-25.3	45.36	54	-8.64	74	-28.64	0-360	101	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

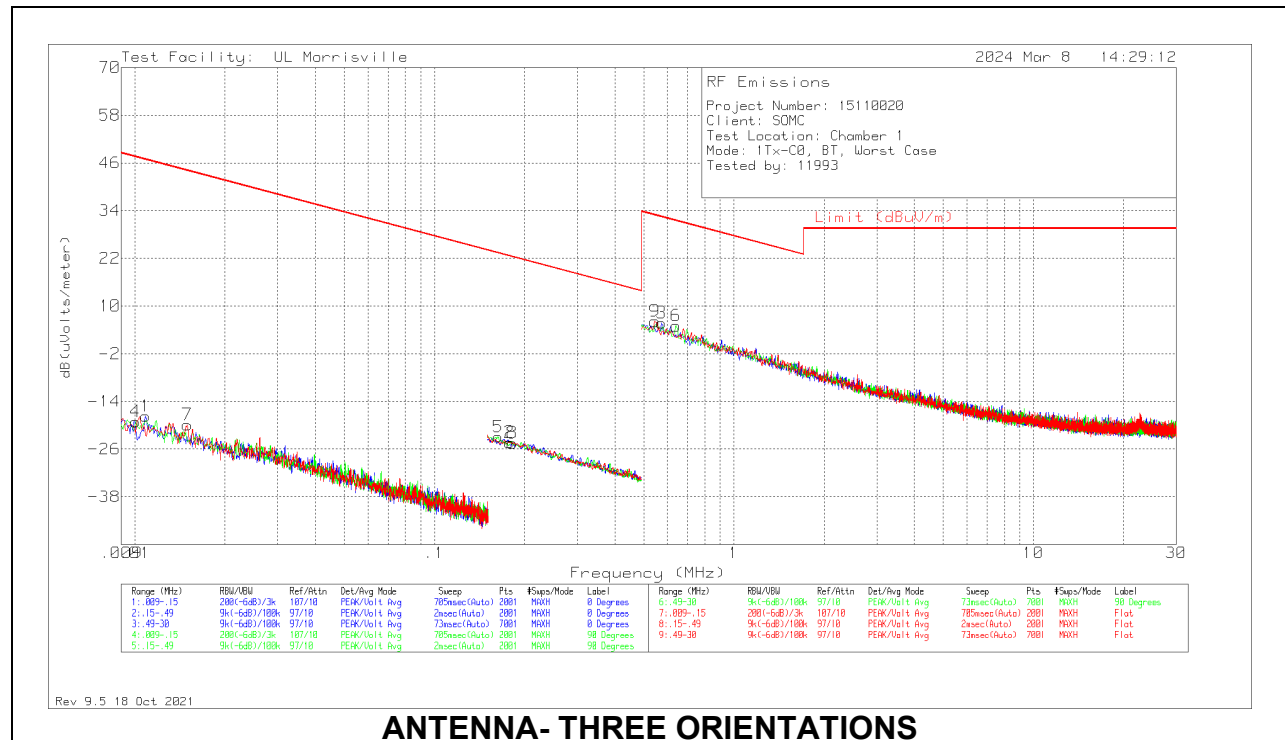
Pk - Peak detector



## 10.2. WORST CASE BELOW 30MHz

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40\*Log (test distance / specification distance).

### SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 0)

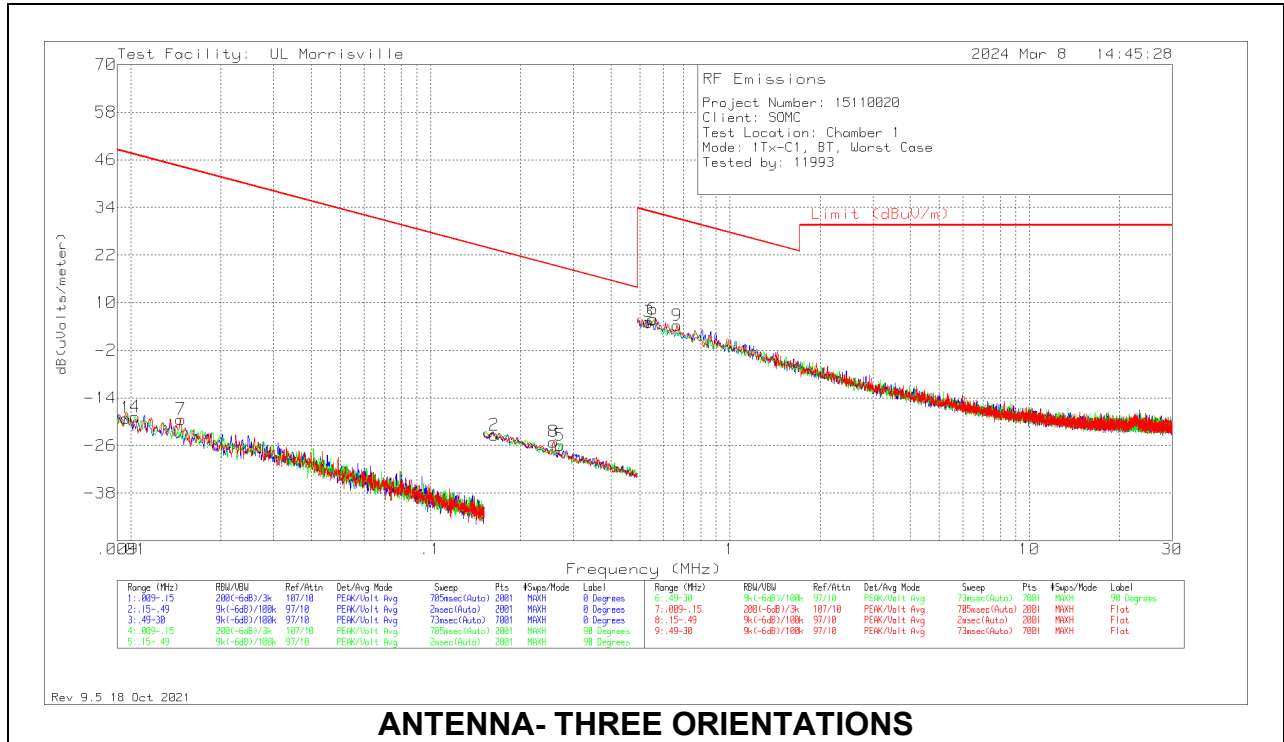


### ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.01007	42.31	Pk	18.5	.1	-80	-19.09	47.55	67.55	-66.64	0-360	90 degs
1	.01085	44.07	Pk	18.1	.1	-80	-17.73	46.9	66.9	-64.63	0-360	0 degs
7	.01496	43.82	Pk	16.2	.1	-80	-19.88	44.1	64.1	-63.98	0-360	Flat
5	.16301	45.83	Pk	11.1	.1	-80	-22.97	23.36	43.36	-46.33	0-360	90 degs
2	.17805	44.51	Pk	11.1	.1	-80	-24.29	22.59	42.59	-46.88	0-360	0 degs
8	.18205	44.34	Pk	11.1	.1	-80	-24.46	22.4	42.4	-46.86	0-360	Flat
9	.54481	34.93	Pk	11.1	.1	-40	6.13	32.88	-	-26.75	0-360	Flat
3	.57432	34.54	Pk	11.1	.1	-40	5.74	32.42	-	-26.68	0-360	0 degs
6	.64178	33.73	Pk	11.2	.1	-40	5.03	31.46	-	-26.43	0-360	90 degs

Pk - Peak detector

**SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 1)**



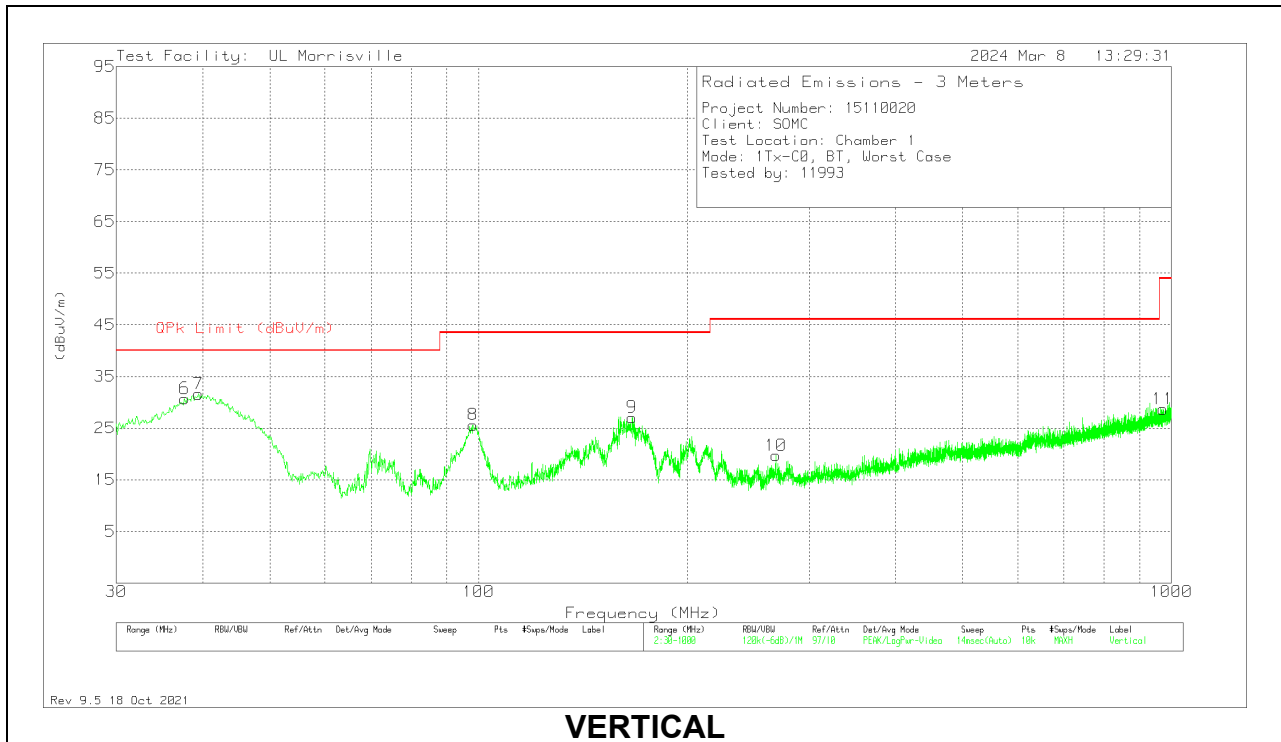
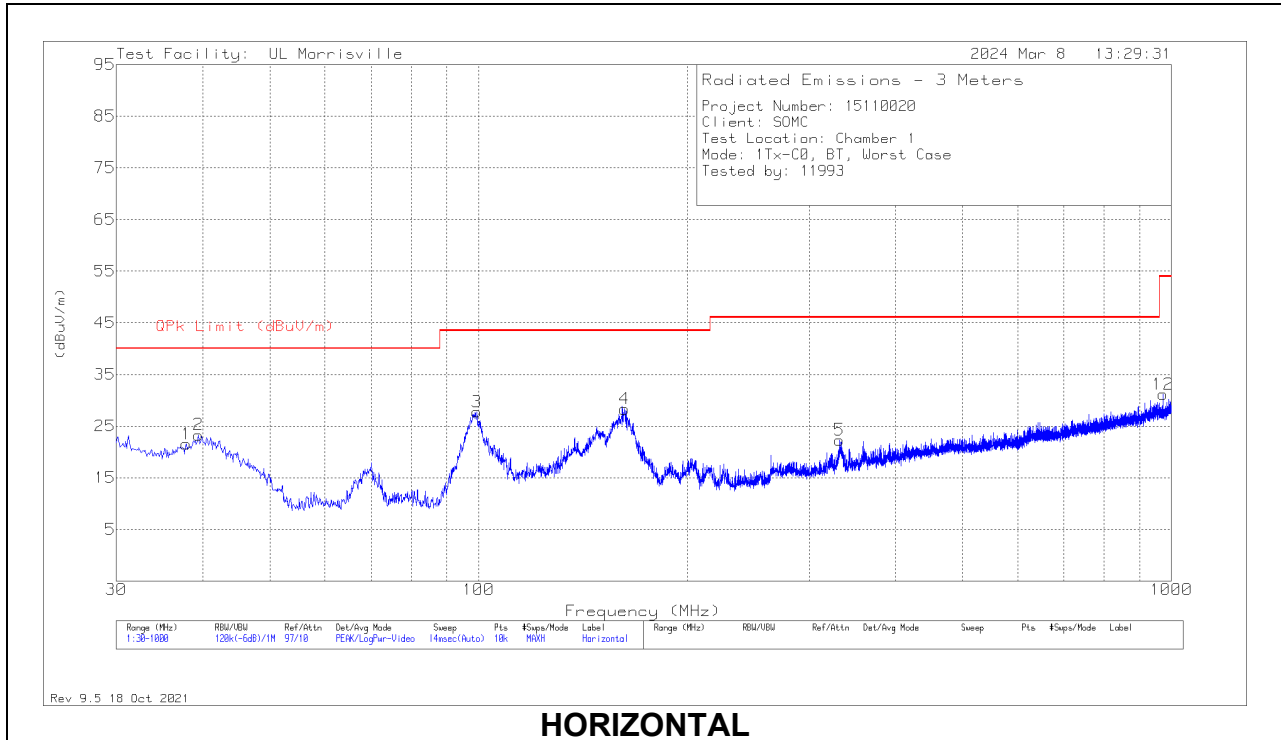
**ANTENNA- THREE ORIENTATIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.00964	42.15	Pk	18.7	.1	-80	-19.05	47.92	67.92	-66.97	0-360	0 degs
4	.01035	42.82	Pk	18.3	.1	-80	-18.78	47.31	67.31	-66.09	0-360	90 degs
7	.01468	44.11	Pk	16.4	.1	-80	-19.39	44.27	64.27	-63.66	0-360	Flat
2	.16326	45.46	Pk	11.1	.1	-80	-23.34	23.35	43.35	-46.69	0-360	0 degs
8	.2577	43.72	Pk	11.1	.1	-80	-25.08	19.38	39.38	-44.46	0-360	Flat
5	.27155	42.88	Pk	11.1	.1	-80	-25.92	18.93	38.93	-44.85	0-360	90 degs
3	.53638	34	Pk	11.1	.1	-40	5.2	33.01	-	-27.81	0-360	0 degs
6	.55324	34.62	Pk	11.1	.1	-40	5.82	32.75	-	-26.93	0-360	90 degs
9	.66707	32.98	Pk	11.2	.1	-40	4.28	31.12	-	-26.84	0-360	Flat

Pk - Peak detector

### 10.3. WORST CASE 30-1000MHz

#### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 0)



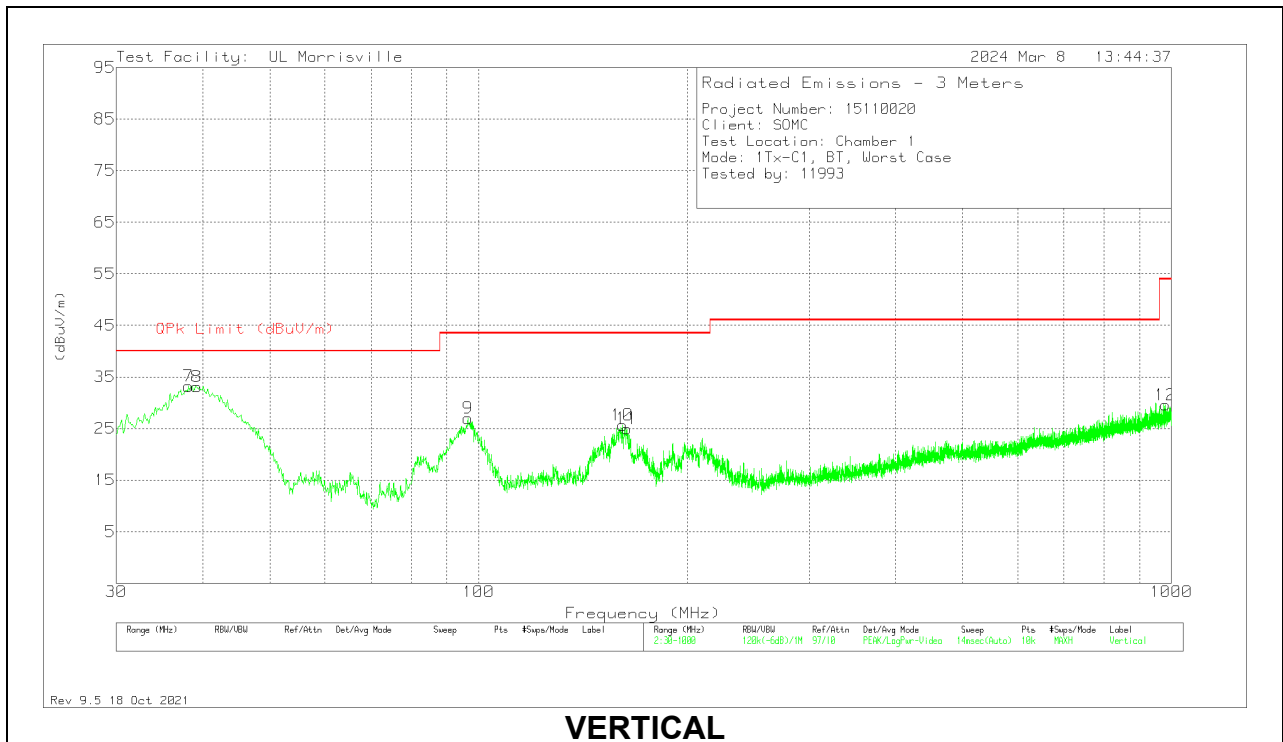
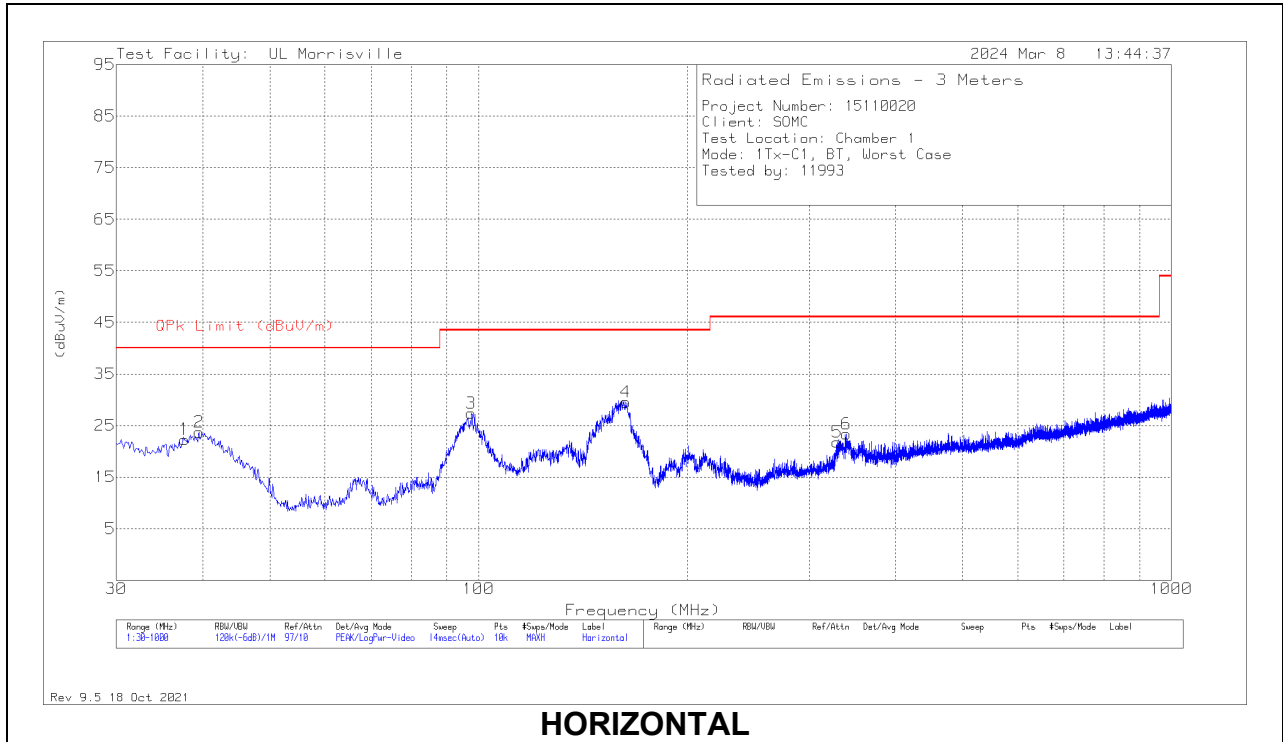
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 37.857	31.91	Pk	21.3	-31.7	21.51	40	-18.49	0-360	200	H
4	*** 162.405	40.11	Pk	18.5	-30.3	28.31	43.52	-15.21	0-360	200	H
5	*** 332.058	31.38	Pk	20	-29.1	22.28	46.02	-23.74	0-360	100	H
12	*** 973.131	27.53	Pk	29	-25.4	31.13	53.97	-22.84	0-360	399	H
6	*** 37.663	40.91	Pk	21.5	-31.7	30.71	40	-9.29	0-360	100	V
9	*** 166.673	39.05	Pk	18.3	-30.3	27.05	43.52	-16.47	0-360	100	V
10	*** 268.62	30.2	Pk	19.2	-29.7	19.7	46.02	-26.32	0-360	100	V
11	*** 972.549	24.98	Pk	29	-25.3	28.68	53.97	-25.29	0-360	100	V
2	39.409	34.6	Pk	20.2	-31.5	23.3	-	-	0-360	299	H
7	39.409	42.91	Pk	20.2	-31.5	31.61	-	-	0-360	100	V
8	98.191	40.22	Pk	16.2	-30.8	25.62	-	-	0-360	100	V
3	99.452	42.05	Pk	16.5	-30.8	27.75	-	-	0-360	299	H

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 1)**



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 37.663	32.5	Pk	21.5	-31.7	22.3	40	-17.7	0-360	199	H
4	*** 163.084	41.23	Pk	18.5	-30.2	29.53	43.52	-13.99	0-360	199	H
5	*** 329.536	30.85	Pk	20	-29.1	21.75	46.02	-24.27	0-360	99	H
7	*** 38.148	43.78	Pk	21.1	-31.7	33.18	40	-6.82	0-360	100	V
11	*** 163.86	36.89	Pk	18.4	-30.3	24.99	43.52	-18.53	0-360	100	V
12	*** 980.891	25.45	Pk	29.2	-25.1	29.55	53.97	-24.42	0-360	100	V
8	39.215	44.21	Pk	20.4	-31.5	33.11	-	-	0-360	100	V
2	39.506	35.09	Pk	20.1	-31.5	23.69	-	-	0-360	300	H
9	96.542	41.98	Pk	15.8	-30.8	26.98	-	-	0-360	100	V
3	97.609	42.18	Pk	16	-30.8	27.38	-	-	0-360	199	H
10	161.338	37.44	Pk	18.5	-30.3	25.64	-	-	0-360	100	V
6	339.527	32.44	Pk	20	-29.1	23.34	-	-	0-360	99	H

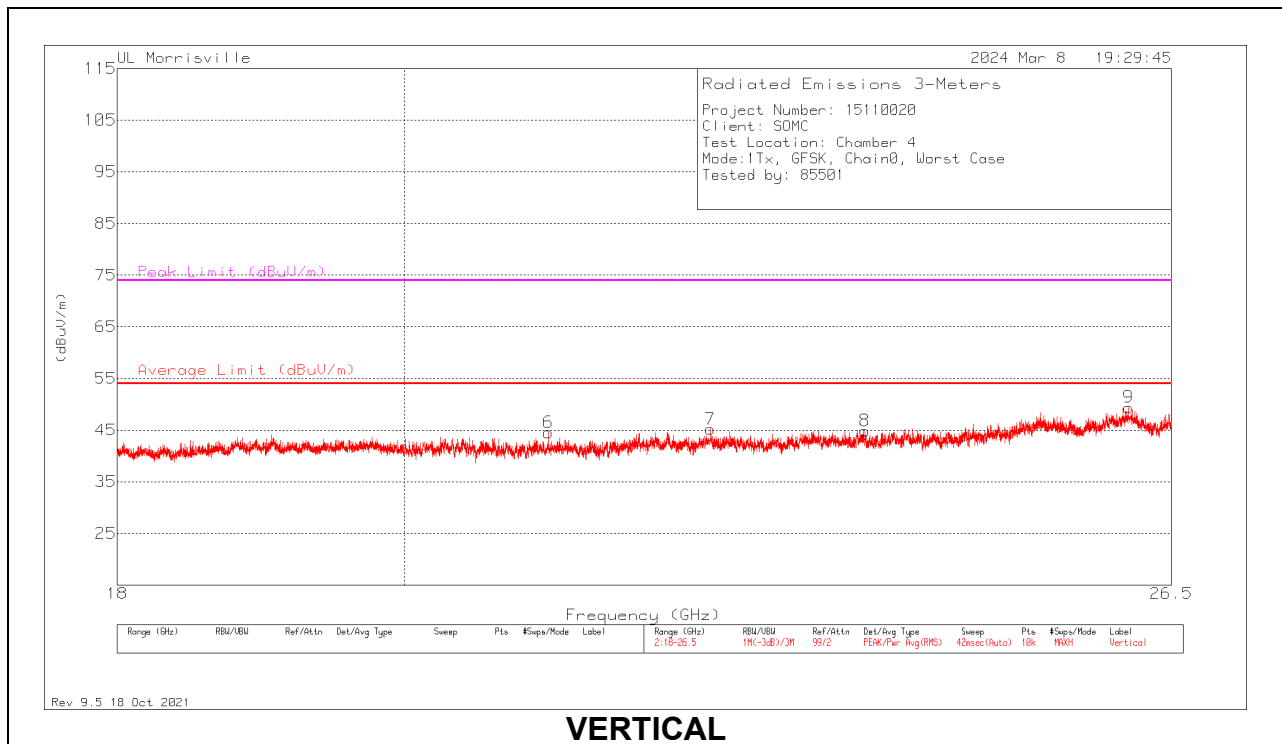
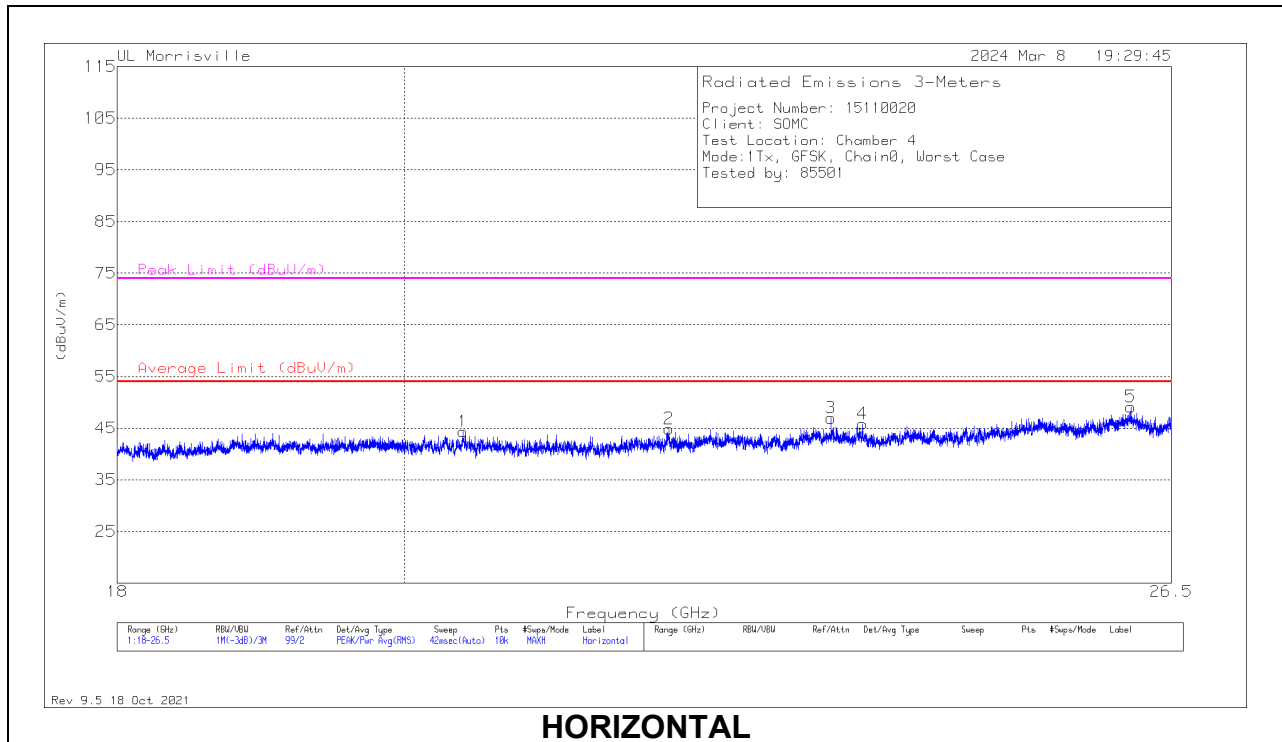
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 10.4. WORST CASE 18-26 GHz

#### SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION CHAIN 0)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 20.43586	49.73	Pk	33.6	-39	44.33	54	-9.67	74	-29.67	0-360	250	H
2	*** 22.03795	49.75	Pk	34.2	-39.1	44.85	54	-9.15	74	-29.15	0-360	250	H
4	*** 23.66213	48.51	Pk	34.5	-37.2	45.81	54	-8.19	74	-28.19	0-360	100	H
6	*** 21.08519	49.94	Pk	33.7	-39.1	44.54	54	-9.46	74	-29.46	0-360	300	V
7	*** 22.37706	48.86	Pk	34.1	-37.8	45.16	54	-8.84	74	-28.84	0-360	200	V
8	*** 23.68338	47.15	Pk	34.5	-36.8	44.85	54	-9.15	74	-29.15	0-360	300	V
3	23.38846	49.97	Pk	34.6	-37.6	-	-	-	-	-	0-360	150	H
9	26.08609	47.99	Pk	35.2	-33.8	-	-	-	-	-	0-360	200	V
5	26.10904	47.83	Pk	35.2	-33.9	-	-	-	-	-	0-360	250	H

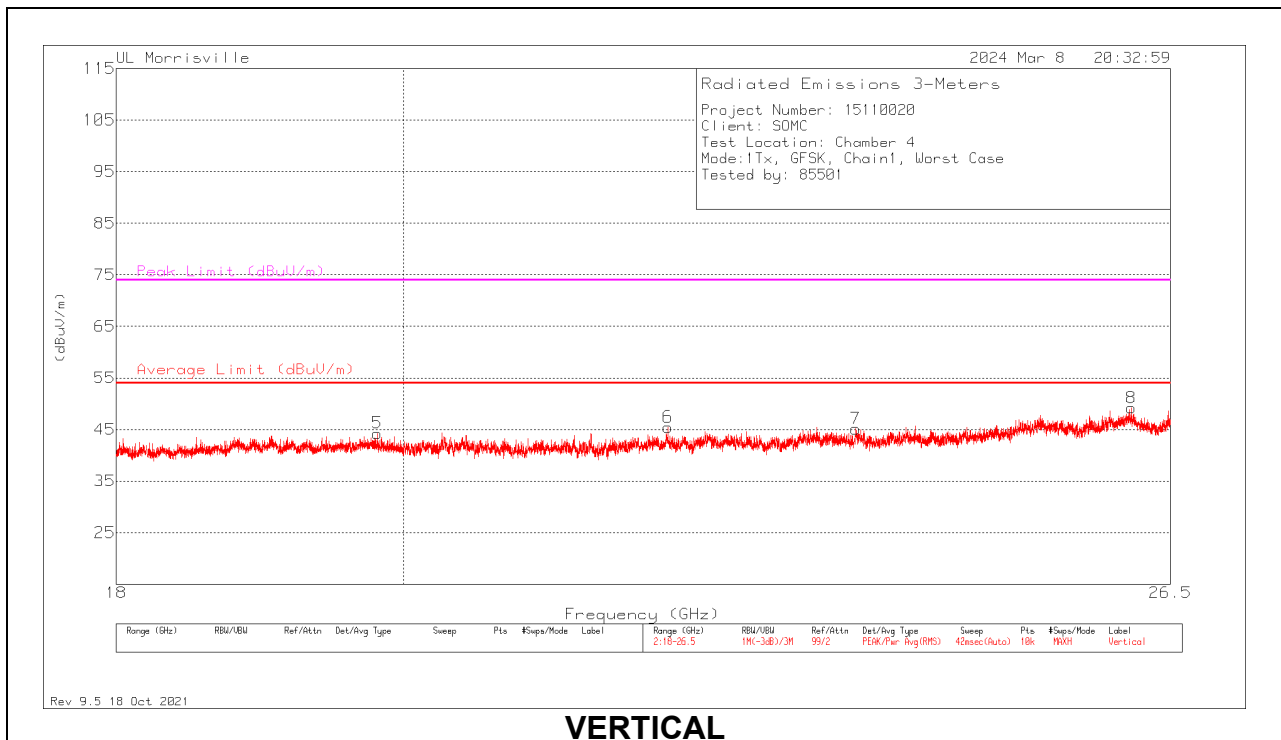
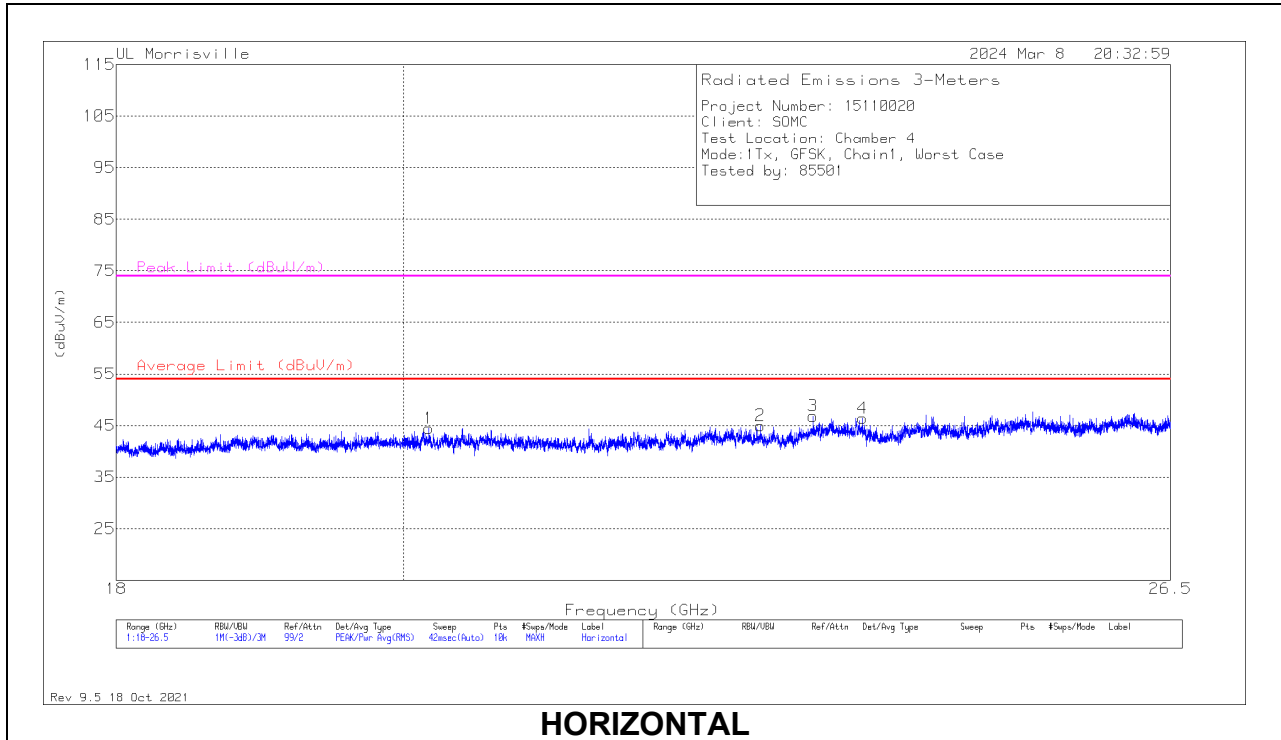
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector



**SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION CHAIN 1)**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 20.18598	50.83	Pk	33.4	-39.8	44.43	54	-9.57	74	-29.57	0-360	100	H
2	*** 22.79947	49.27	Pk	34.1	-38.4	44.97	54	-9.03	74	-29.03	0-360	100	H
4	*** 23.67148	49.48	Pk	34.5	-37.6	46.38	54	-7.62	74	-27.62	0-360	100	H
5	*** 19.80862	50.88	Pk	33.2	-39.8	44.28	54	-9.72	74	-29.72	0-360	250	V
6	*** 22.03965	50.47	Pk	34.2	-39.2	45.47	54	-8.53	74	-28.53	0-360	200	V
7	*** 23.61029	46.65	Pk	34.6	-36.1	45.15	54	-8.85	74	-28.85	0-360	300	V
3	23.24398	50.34	Pk	34.3	-37.8	46.84	-	-	-	-	0-360	100	H
8	26.12434	47.8	Pk	35.2	-33.8	49.2	-	-	-	-	0-360	150	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

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

\* Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10

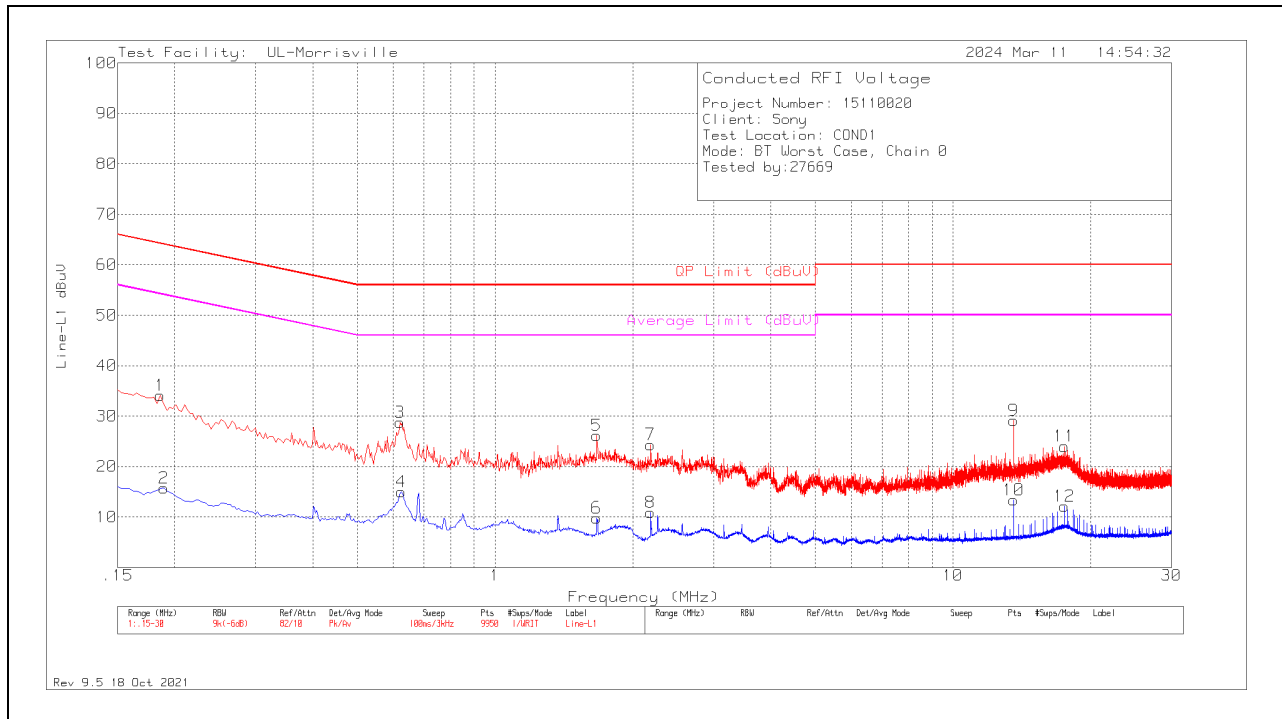
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

### RESULTS

### 11.1.1. AC POWER LINE NORM – CHAIN 0

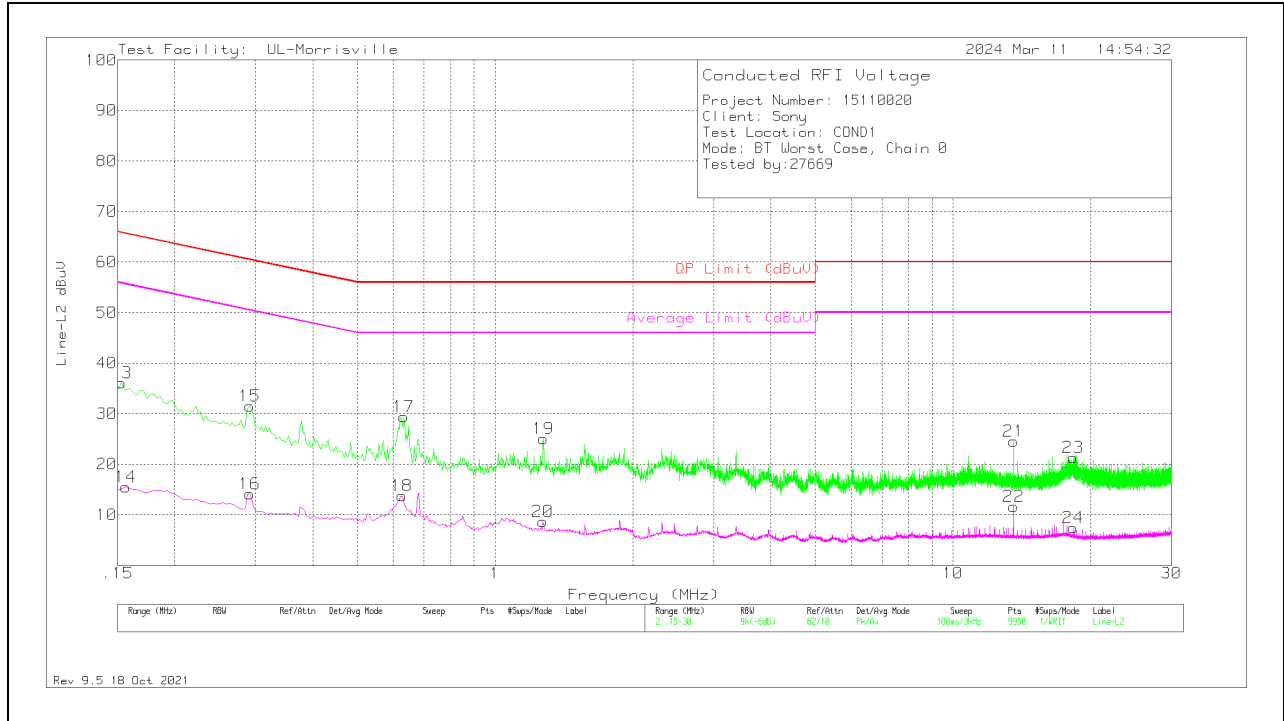
#### LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.186	24.15	Pk	.2	9.8	34.15	64.21	-30.06	-	-
2	.189	5.68	Av	.2	9.8	15.68	-	-	54.08	-38.4
3	.621	18.85	Pk	.1	9.8	28.75	56	-27.25	-	-
4	.624	5.07	Av	.1	9.8	14.97	-	-	46	-31.03
5	1.668	16.3	Pk	.1	9.8	26.2	56	-29.8	-	-
6	1.668	-.07	Av	.1	9.8	9.83	-	-	46	-36.17
7	2.187	14.46	Pk	.1	9.8	24.36	56	-31.64	-	-
8	2.187	.96	Av	.1	9.8	10.86	-	-	46	-35.14
9	13.563	18.94	Pk	.2	10	29.14	60	-30.86	-	-
10	13.563	3.15	Av	.2	10	13.35	-	-	50	-36.65
11	17.508	13.69	Pk	.2	10.1	23.99	60	-36.01	-	-
12	17.508	1.8	Av	.2	10.1	12.1	-	-	50	-37.9

Pk - Peak detector  
 Av - Average detection

**LINE 2 RESULTS**



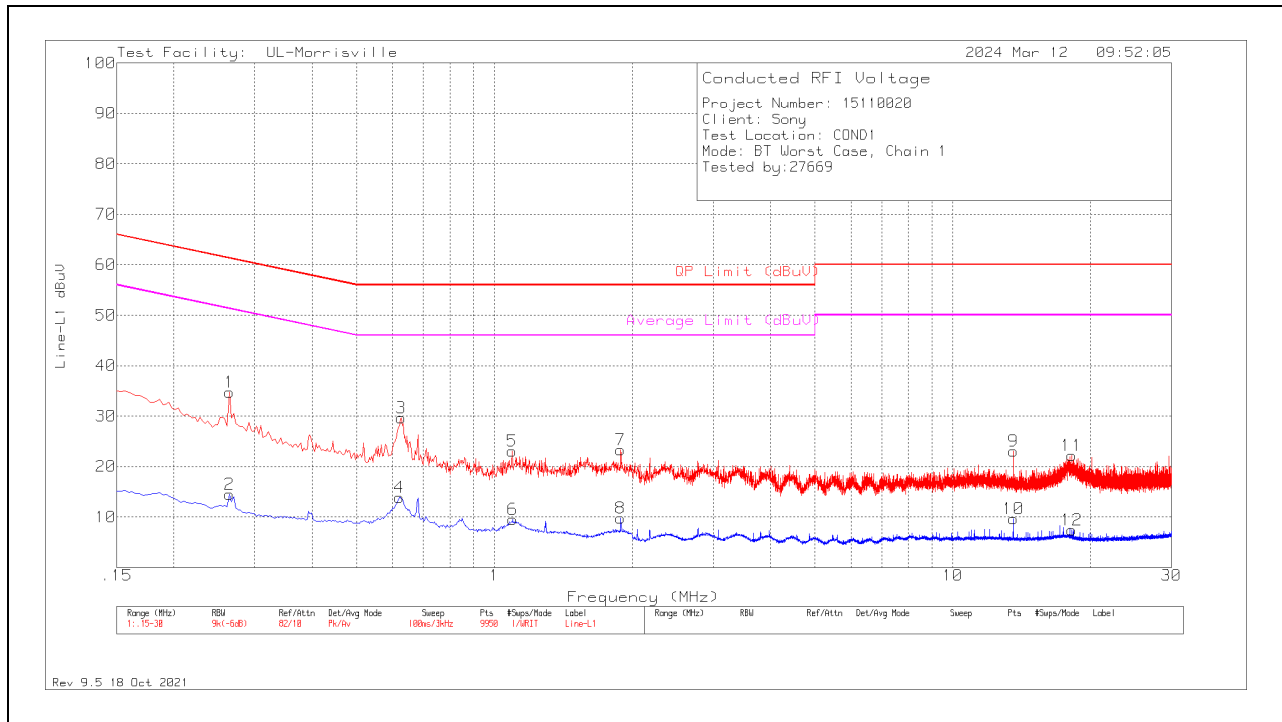
**Range 2: Line-L2 .15 - 30MHz**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.153	26.03	Pk	.3	9.8	36.13	65.84	-29.71	-	-
14	.156	5.35	Av	.3	9.8	15.45	-	-	55.67	-40.22
15	.291	21.47	Pk	.2	9.8	31.47	60.5	-29.03	-	-
16	.291	4.1	Av	.2	9.8	14.1	-	-	50.5	-36.4
18	.627	3.84	Av	.1	9.8	13.74	-	-	46	-32.26
17	.633	19.45	Pk	.1	9.8	29.35	56	-26.65	-	-
20	1.272	-1.3	Av	.1	9.8	8.6	-	-	46	-37.4
19	1.275	15.1	Pk	.1	9.8	25	56	-31	-	-
21	13.563	14.32	Pk	.2	10	24.52	60	-35.48	-	-
22	13.563	1.46	Av	.2	10	11.66	-	-	50	-38.34
23	18.306	11.04	Pk	.2	10.1	21.34	60	-38.66	-	-
24	18.306	-2.93	Av	.2	10.1	7.37	-	-	50	-42.63

Pk - Peak detector  
 Av - Average detection

## 11.1.2. AC POWER LINE NORM – CHAIN 1

### LINE 1 RESULTS

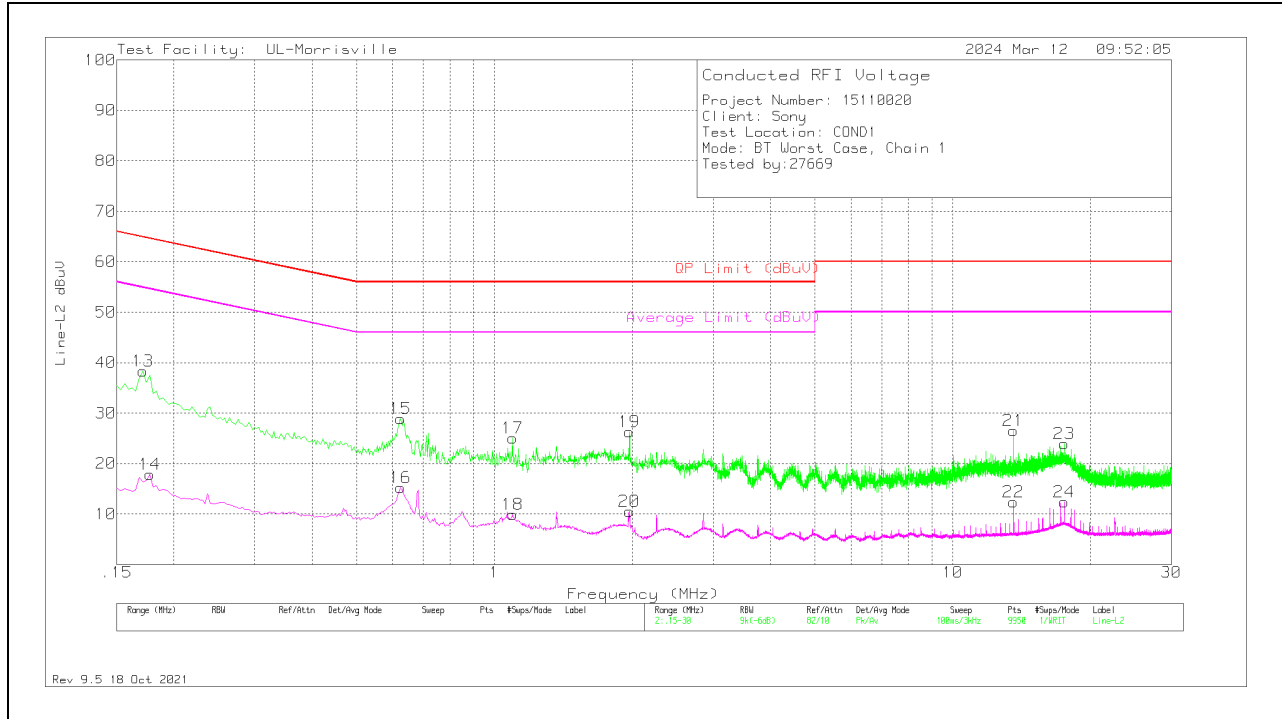


Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.264	24.69	Pk	.2	9.8	34.69	61.3	-26.61	-	-
2	.264	4.45	Av	.2	9.8	14.45	-	-	51.3	-36.85
4	.621	3.99	Av	.1	9.8	13.89	-	-	46	-32.11
3	.627	19.78	Pk	.1	9.8	29.68	56	-26.32	-	-
5	1.092	13.19	Pk	.1	9.8	23.09	56	-32.91	-	-
6	1.095	-43	Av	.1	9.8	9.47	-	-	46	-36.53
7	1.887	13.42	Pk	.1	9.8	23.32	56	-32.68	-	-
8	1.887	-1	Av	.1	9.8	9.8	-	-	46	-36.2
9	13.563	12.88	Pk	.2	10	23.08	60	-36.92	-	-
10	13.563	-51	Av	.2	10	9.69	-	-	50	-40.31
11	18.162	11.93	Pk	.2	10.1	22.23	60	-37.77	-	-
12	18.162	-2.87	Av	.2	10.1	7.43	-	-	50	-42.57

Pk - Peak detector  
 Av - Average detection

**LINE 2 RESULTS**



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.171	28.25	Pk	.3	9.8	38.35	64.91	-26.56	-	-
14	.177	7.76	Av	.3	9.8	17.86	-	-	54.63	-36.77
15	.624	19.01	Pk	.1	9.8	28.91	56	-27.09	-	-
16	.624	5.3	Av	.1	9.8	15.2	-	-	46	-30.8
17	1.095	15.11	Pk	.1	9.8	25.01	56	-30.99	-	-
18	1.095	-.01	Av	.1	9.8	9.89	-	-	46	-36.11
19	1.971	16.34	Pk	.1	9.8	26.24	56	-29.76	-	-
20	1.971	.66	Av	.1	9.8	10.56	-	-	46	-35.44
21	13.563	16.3	Pk	.2	10	26.5	60	-33.5	-	-
22	13.563	2.2	Av	.2	10	12.4	-	-	50	-37.6
23	17.502	13.59	Pk	.2	10.1	23.89	60	-36.11	-	-
24	17.502	2.11	Av	.2	10.1	12.41	-	-	50	-37.59

Pk - Peak detector  
 Av - Average detection

## 12. SETUP PHOTOS

Please refer to R15110020-EP1 for setup photos

**END OF TEST REPORT**