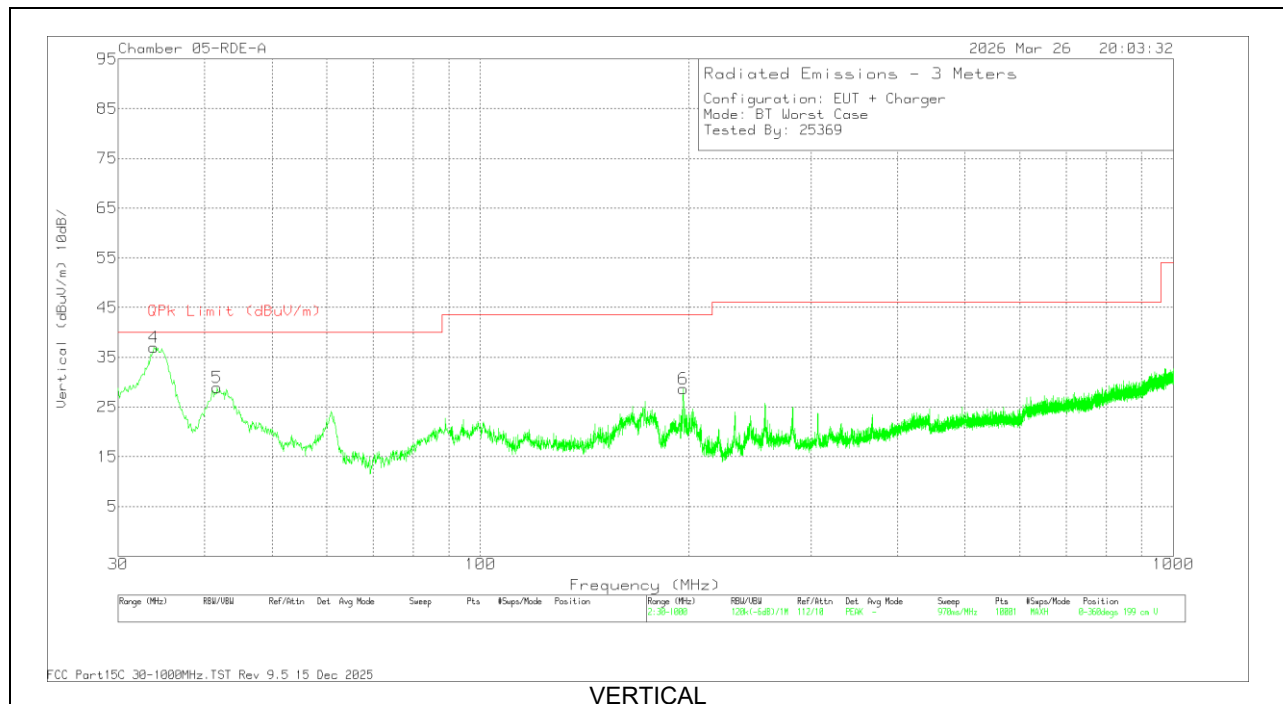
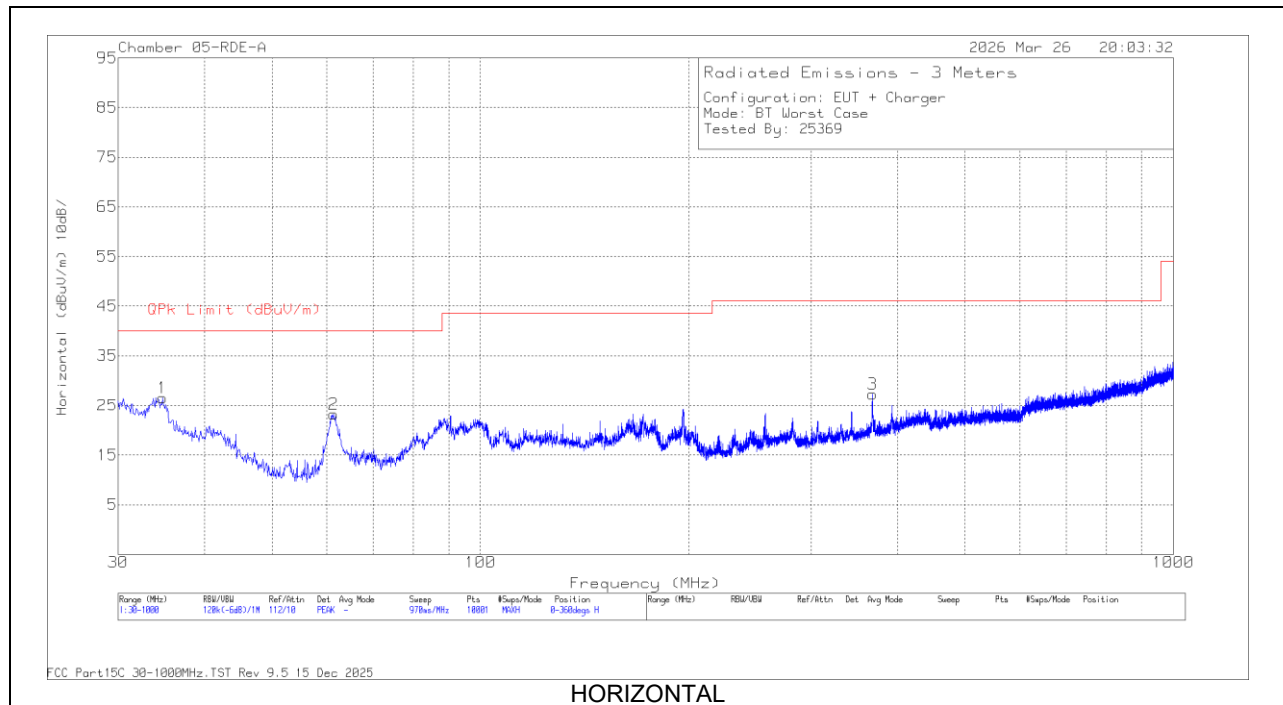


9.2. 30 MHz - 1 GHz – WORST-CASE

SPURIOUS EMISSIONS



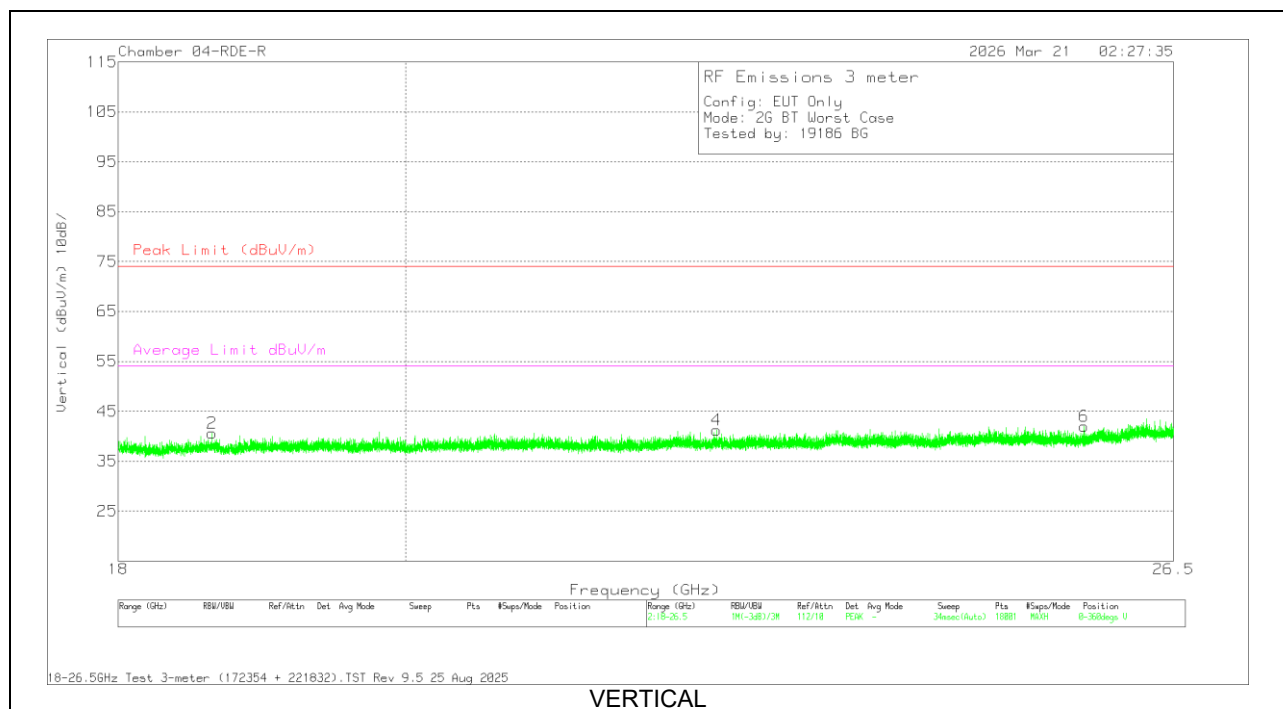
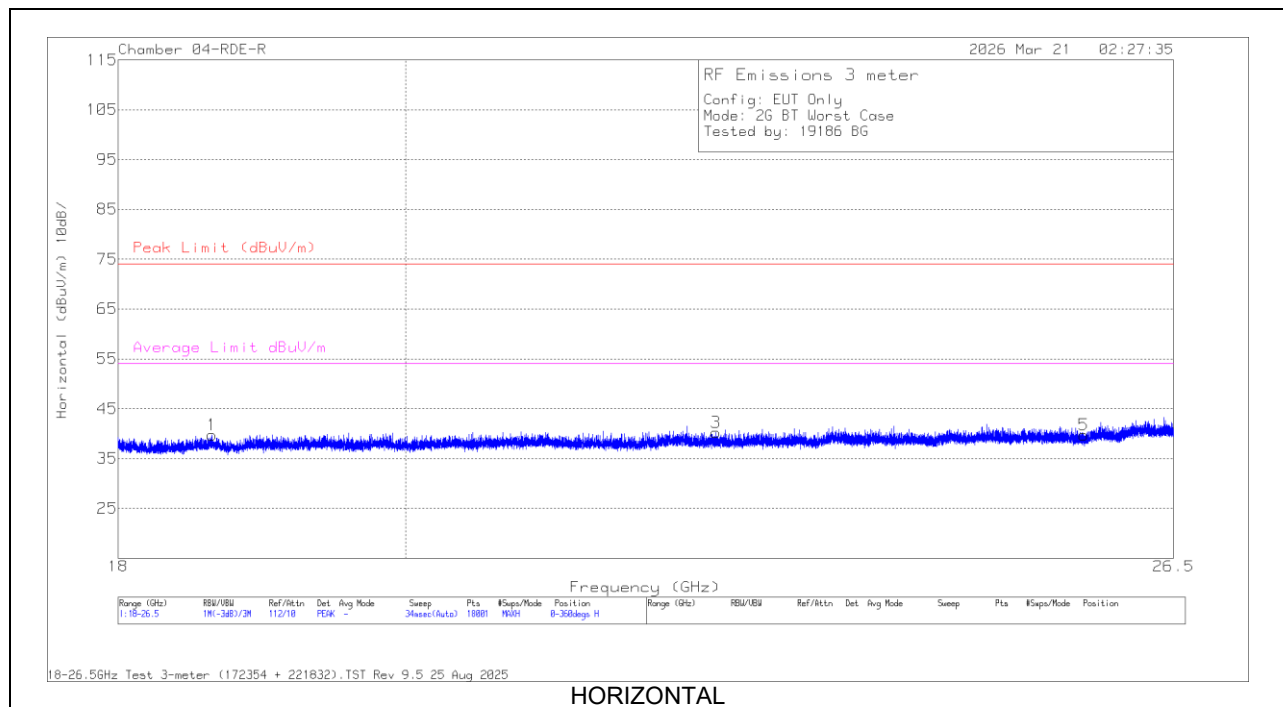
MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	204045 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	34.1237	42.03	Qp	24	-32.3	33.73	40	-6.27	330	101	V
1	34.7576	29.88	Qp	23.6	-32.3	21.18	40	-18.82	11	124	H
5	42.0653	40.37	Qp	18.2	-32.1	26.47	40	-13.53	243	103	V
2	61.107	38.69	Qp	13.6	-32	20.29	40	-19.71	182	380	H
6	196.225	40.54	Qp	18.2	-31.2	27.54	43.52	-15.98	99	100	V
3	367.673	33.68	Qp	20.7	-30.6	23.78	46.02	-22.24	81	105	H

Qp - Quasi-Peak detector

9.3. 18 GHz - 26 GHz – WORST-CASE

SPURIOUS EMISSIONS



MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172354 ACF (dB/m)	CBL/AMP (dB)	Cbl (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.62801	41.06	VA1T	32.3	-63.1	15.8	26.06	-	-	54	-27.94	360	100	V
	* 18.62906	41.05	VA1T	32.3	-63.1	15.8	26.05	-	-	54	-27.95	360	100	H
2	* 18.63187	54.04	PKFH	32.3	-63.1	15.8	39.04	74	-34.96	-	-	360	100	H
	* 18.63204	54.7	PKFH	32.3	-63.1	15.8	39.7	74	-34.3	-	-	360	100	V
3	* 22.40729	38.4	VA1T	33.2	-62.2	17.4	26.8	-	-	54	-27.2	360	100	H
	* 22.41131	51.69	PKFH	33.2	-62.3	17.4	39.99	74	-34.01	-	-	360	100	H
4	* 22.41213	38.4	VA1T	33.2	-62.3	17.4	26.7	-	-	54	-27.3	360	100	V
	* 22.41281	51.66	PKFH	33.2	-62.3	17.4	39.96	74	-34.04	-	-	360	100	V
5	25.641531	36.1	VA1T	33.8	-61.4	18.8	27.3	-	-	-	-	360	100	H
	25.642017	49.21	PKFH	33.8	-61.4	18.8	40.41	-	-	-	-	360	100	H
6	25.643648	36.13	VA1T	33.8	-61.4	18.8	27.33	-	-	-	-	360	100	V
	25.64411	49.56	PKFH	33.8	-61.4	18.8	40.76	-	-	-	-	360	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. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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.

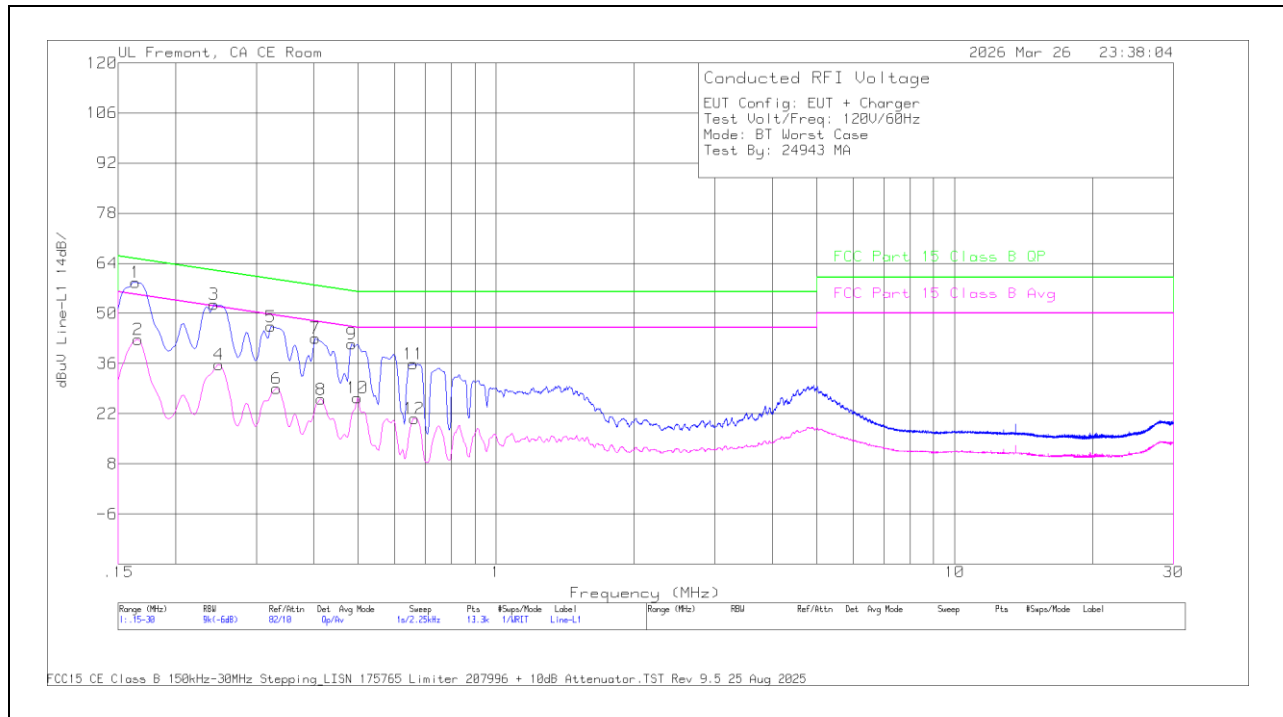
TEST PROCEDURE

ANSI C63.10 Section 6.2

RESULTS

10.1. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS

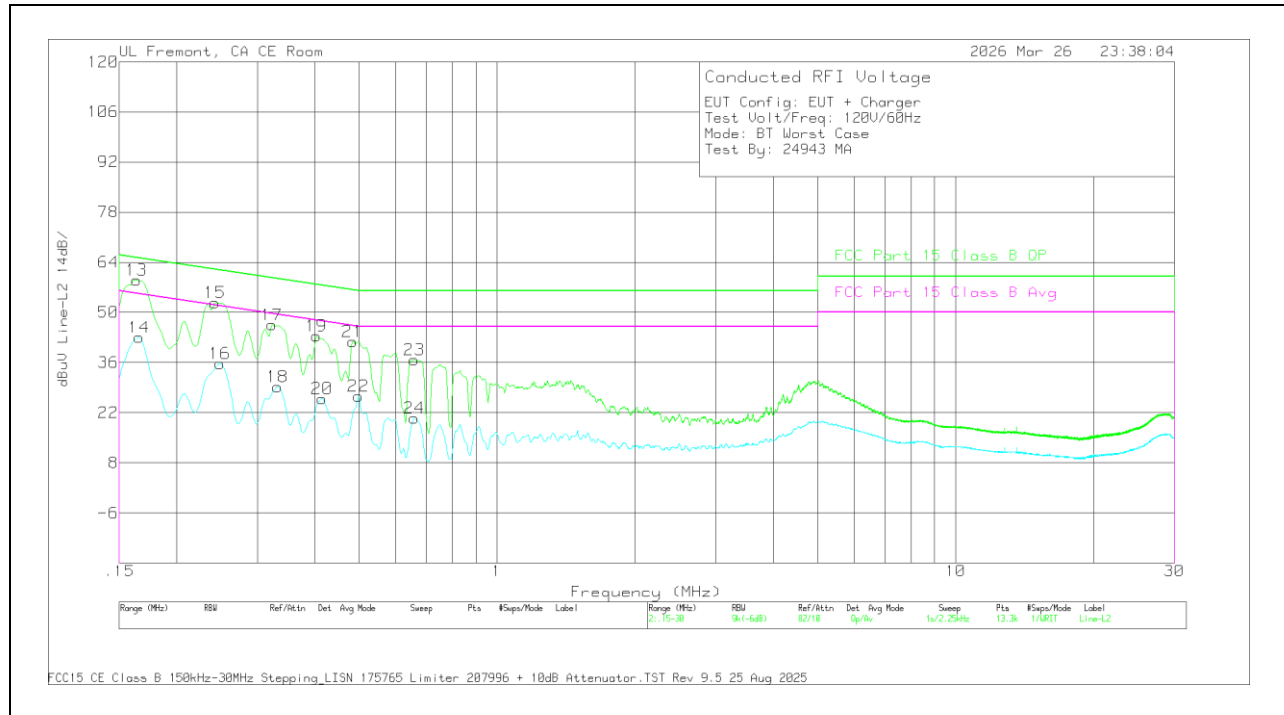


MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
2	.1658	23.33	Av	.1	9.4	9.9	42.73	-	-	55.17	-12.44
4	.249	16.36	Av	0	9.4	9.9	35.66	-	-	51.79	-16.13
6	.3323	9.78	Av	0	9.3	9.9	28.98	-	-	49.39	-20.41
8	.4155	6.79	Av	0	9.3	9.9	25.99	-	-	47.54	-21.55
10	.4988	7.25	Av	0	9.3	9.9	26.45	-	-	46.02	-19.57
12	.663	1.31	Av	0	9.4	10	20.71	-	-	46	-25.29
1	.1635	39.32	Qp	.1	9.4	9.9	58.72	65.28	-6.56	-	-
3	.2423	33.24	Qp	0	9.4	9.9	52.54	62.02	-9.48	-	-
5	.3233	27.02	Qp	0	9.4	9.9	46.32	59.62	-13.3	-	-
7	.4043	23.88	Qp	0	9.3	9.9	43.08	57.77	-14.69	-	-
9	.4853	22.14	Qp	0	9.4	9.9	41.44	56.25	-14.81	-	-
11	.6608	16.59	Qp	0	9.3	10	35.89	56	-20.11	-	-

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS**MEASURED DATA**

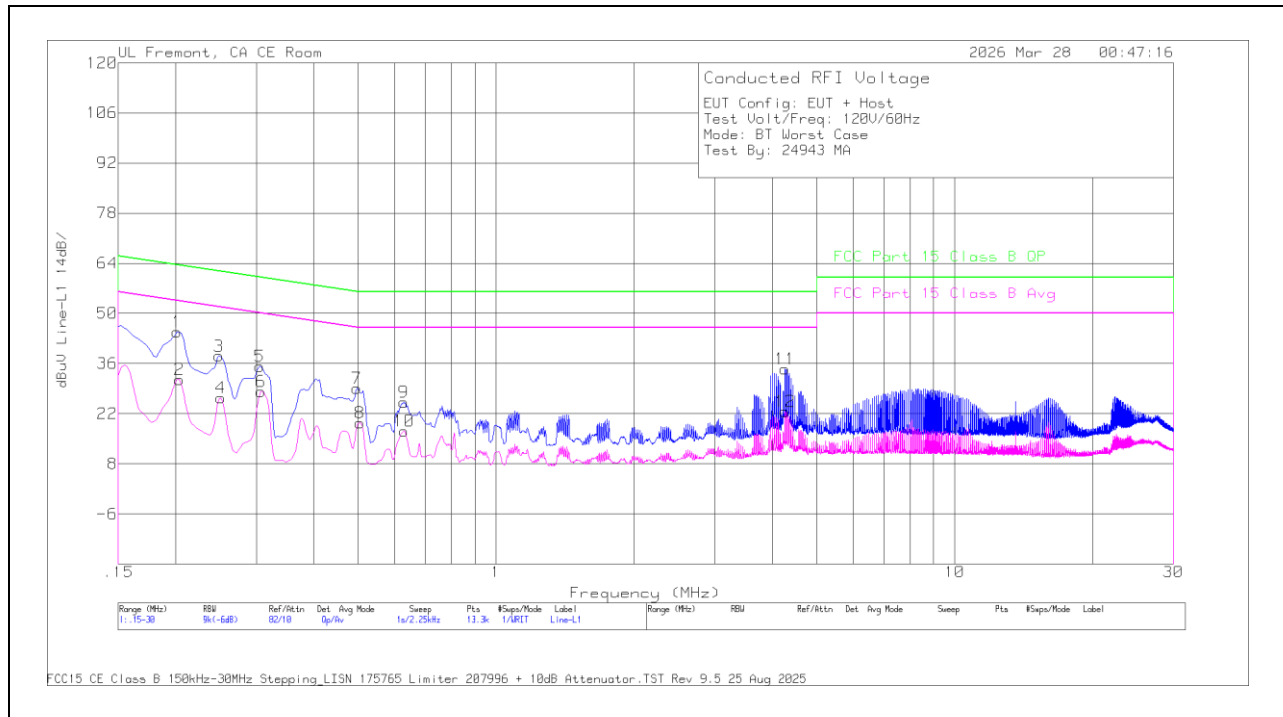
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_plus Limiter (dB)	Attenuator (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
14	.1658	23.6	Av	.1	9.4	9.9	43	-	-	55.17	-12.17
16	.249	16.47	Av	0	9.4	9.9	35.77	-	-	51.79	-16.02
18	.3323	10.01	Av	0	9.3	9.9	29.21	-	-	49.39	-20.18
20	.4155	6.7	Av	0	9.3	9.9	25.9	-	-	47.54	-21.64
22	.4988	7.39	Av	0	9.3	9.9	26.59	-	-	46.02	-19.43
24	.6608	1.06	Av	0	9.4	10	20.46	-	-	46	-25.54
13	.1635	39.63	Qp	.1	9.4	9.9	59.03	65.28	-6.25	-	-
15	.2423	33.41	Qp	0	9.4	9.9	52.71	62.02	-9.31	-	-
17	.3233	27.2	Qp	0	9.4	9.9	46.5	59.62	-13.12	-	-
19	.4043	24.2	Qp	0	9.3	9.9	43.4	57.77	-14.37	-	-
21	.4853	22.68	Qp	0	9.3	9.9	41.88	56.25	-14.37	-	-
23	.6608	17.33	Qp	0	9.4	10	36.73	56	-19.27	-	-

Qp - Quasi-Peak detector

Av - Average detection

10.2. AC POWER LINE WITH LAPTOP

LINE 1 RESULTS

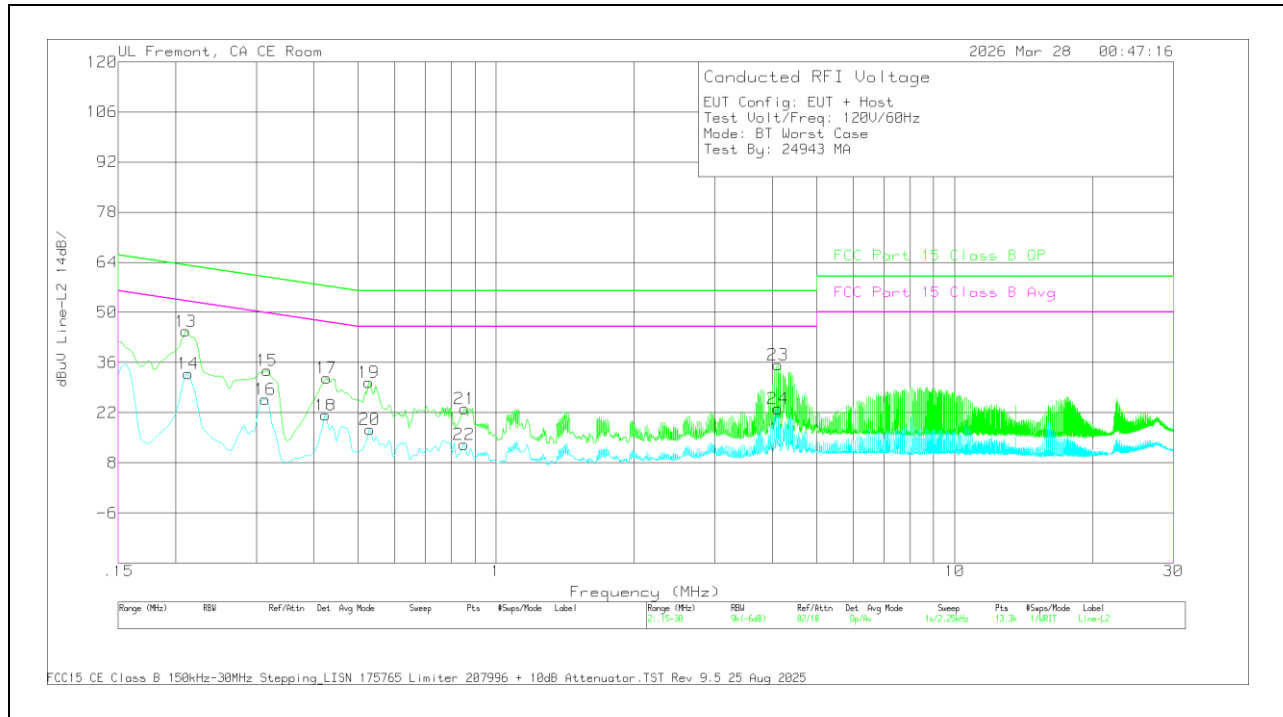


MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
2	.204	12.2	Av	0	9.4	9.9	31.5	-	-	53.45	-21.95
4	.2513	7.08	Av	0	9.4	9.9	26.38	-	-	51.72	-25.34
6	.3075	8.93	Av	0	9.4	9.9	28.23	-	-	50.04	-21.81
8	.5055	.22	Av	0	9.3	9.9	19.42	-	-	46	-26.58
10	.6304	-2.2	Av	0	9.3	10	17.1	-	-	46	-28.9
12	4.2698	3.36	Av	0	9.4	9.8	22.56	-	-	46	-23.44
1	.2018	25.52	Qp	0	9.4	9.9	44.82	63.54	-18.72	-	-
3	.249	18.78	Qp	0	9.4	9.9	38.08	61.79	-23.71	-	-
5	.3053	15.91	Qp	0	9.4	9.9	35.21	60.1	-24.89	-	-
7	.4965	9.87	Qp	0	9.3	9.9	29.07	56.06	-26.99	-	-
9	.6293	5.86	Qp	0	9.3	10	25.16	56	-30.84	-	-
11	4.2698	15.3	Qp	0	9.4	9.8	34.5	56	-21.5	-	-

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS**MEASURED DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_plus Limiter (dB)	Attenuator (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
14	.213	13.56	Av	0	9.4	9.9	32.86	-	-	53.09	-20.23
16	.3143	6.42	Av	0	9.4	9.9	25.72	-	-	49.86	-24.14
18	.4245	1.97	Av	0	9.4	9.9	21.27	-	-	47.36	-26.09
20	.5303	-1.93	Av	0	9.3	9.9	17.27	-	-	46	-28.73
22	.8509	-6.12	Av	0	9.4	9.9	13.18	-	-	46	-32.82
24	4.1213	3.78	Av	0	9.4	9.9	23.08	-	-	46	-22.92
13	.2108	25.44	Qp	0	9.4	9.9	44.74	63.18	-18.44	-	-
15	.3165	14.56	Qp	0	9.4	9.9	33.86	59.8	-25.94	-	-
17	.4268	12.53	Qp	0	9.3	9.9	31.73	57.32	-25.59	-	-
19	.528	11.24	Qp	0	9.3	9.9	30.44	56	-25.56	-	-
21	.8543	3.81	Qp	0	9.4	9.9	23.11	56	-32.89	-	-
23	4.1213	16.11	Qp	0	9.4	9.9	35.41	56	-20.59	-	-

Qp - Quasi-Peak detector

Av - Average detection

11. SETUP PHOTOS

Please refer to 16064952-EP1V1 for setup photos.

12. APPENDIX A - SPOT CHECK EVALUATION

12.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3447, A3719, A3720 and A3721. These models are very similar, with only the following differences.

Model	IC ID	FCC ID	Feature Difference	Sim Support	Reference Model
A3447	579C-E9188A	BCG-E9188A	-With FR2 -No LTE B11, B21	eSIM	-
A3719	579C-E9198A	BCG-E9198A	-Without FR2 -Added LTE B11, B21	eSIM	A3472
A3720	579C-E9203A	BCG-E9203A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	
A3721	579C-E9204A	BCG-E9204A	-Without FR2 -No LTE/5GNR B14, B29, B71, B53 -No LTE B11, B21, MSS	eSIM	

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

12.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3719

A3719 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3719	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID : BCG-E9198A IC : 579C-E9198A			
DSS/BT	2.4	BDR TxBF	1Mbps	Output Power (dBm)	Low	2.402	20.15	20.12	-0.03	-9.85	Note 1
		8PSK (ANT 4) High Power State B	3Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge Average	49.73	48.53	-1.20	-4.27	Note 1
		BTCSM2 (ANT 3) High Power State A	2Mbps	RSE (dBuV/m)	Low	Horizontal Pk 12.009938 GHz	65.69	64.17	-1.52	-8.31	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

12.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3720

A3720 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3720	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID : BCG-E9203A IC : 579C-E9203A			
DSS/BT	2.4	BDR TxBF	1Mbps	Output Power (dBm)	Low	2.402	20.15	20.13	-0.02	-9.85	Note 1
		8PSK (ANT 4) High Power State B	3Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge Average	49.73	50.07	0.34	-4.27	Note 1
		BTCSM2 (ANT 3) High Power State A	2Mbps	RSE (dBuV/m)	Low	Horizontal Pk 12.009938 GHz	65.69	66.40	0.71	-8.31	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

12.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3721

A3721 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3721	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9188A IC : 579C-E9188A	FCC ID : BCG-E9204A IC : 579C-E9204A			
DSS/BT	2.4	BDR TxBF	1Mbps	Output Power (dBm)	Low	2.402	20.15	20.09	-0.06	-9.85	Note 1
		8PSK (ANT 4) High Power State B	3Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge Average	49.73	50.27	0.54	-4.27	Note 1
		BTCSM2 (ANT 3) High Power State A	2Mbps	RSE (dBuV/m)	Low	Horizontal Pk 12.009938 GHz	65.69	65.70	0.01	-8.31	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.