

Band Edge Emission Test Results for Restricted Bands

EUT Name	Smart Karaoke Machine	Model Name	Break X2
Temperature	23.1°C	Relative Humidity	69.3%
Pressure	960hPa	Test Voltage	DC 5V

802.11b_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	38.90	29.99	30.21	8.35	47.03	74	-26.97	Peak	Horizontal
2	2390.00	30.65	29.99	30.21	8.35	38.782	54	-15.22	AV	Horizontal
3	2390.00	36.95	29.99	30.21	8.35	45.083	74	-28.92	Peak	Vertical
4	2390.00	27.80	29.99	30.21	8.35	35.929	54	-18.07	AV	Vertical

802.11b_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	39.60	30.25	30.25	8.5	48.101	74	-25.90	Peak	Horizontal
2	2483.50	30.89	30.25	30.25	8.5	39.393	54	-14.61	AV	Horizontal
3	2483.50	36.80	30.25	30.25	8.5	45.297	74	-28.70	Peak	Vertical
4	2483.50	27.33	30.25	30.25	8.5	35.831	54	-18.17	AV	Vertical

802.11g_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	53.68	29.99	30.21	8.35	61.813	74	-12.19	Peak	Horizontal
2	2390.00	33.59	29.99	30.21	8.35	41.72	54	-12.28	AV	Horizontal
3	2390.00	51.40	29.99	30.21	8.35	59.526	74	-14.47	Peak	Vertical
4	2390.00	31.98	29.99	30.21	8.35	40.112	54	-13.89	AV	Vertical

802.11g_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	51.30	30.25	30.25	8.5	59.795	74	-14.21	Peak	Horizontal
2	2483.50	33.04	30.25	30.25	8.5	41.535	54	-12.47	AV	Horizontal
3	2483.50	46.46	30.25	30.25	8.5	54.959	74	-19.04	Peak	Horizontal
4	2483.50	29.50	30.25	30.25	8.5	38.004	54	-16.00	AV	Vertical

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802.11n-HT20_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	52.37	29.99	30.21	8.35	60.504	74	-13.50	Peak	Horizontal
2	2390.00	36.08	29.99	30.21	8.35	44.205	54	-9.80	AV	Horizontal
3	2390.00	50.77	29.99	30.21	8.35	58.9	74	-15.10	Peak	Vertical
4	2390.00	34.29	29.99	30.21	8.35	42.423	54	-11.58	AV	Vertical

802.11n-HT20_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	54.21	30.25	30.25	8.5	62.71	74	-11.29	Peak	Horizontal
2	2483.50	35.33	30.25	30.25	8.5	43.828	54	-10.17	AV	Horizontal
3	2483.50	51.32	30.25	30.25	8.5	59.823	74	-14.18	Peak	Vertical
4	2483.50	34.34	30.25	30.25	8.5	42.84	54	-11.16	AV	Vertical

802.11n-HT40_TX CH03_2422 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	50.72	29.99	30.21	8.35	58.846	74	-15.15	Peak	Horizontal
2	2390.00	39.73	29.99	30.21	8.35	47.864	54	-6.14	AV	Horizontal
3	2390.00	47.64	29.99	30.21	8.35	55.767	74	-18.23	Peak	Vertical
4	2390.00	35.99	29.99	30.21	8.35	44.118	54	-9.88	AV	Vertical

802.11n-HT40_TX CH09_2452 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	48.48	30.25	30.25	8.5	56.98	74	-17.02	Peak	Horizontal
2	2483.50	31.21	30.25	30.25	8.5	39.707	54	-14.29	AV	Horizontal
3	2483.50	44.71	30.25	30.25	8.5	53.206	74	-20.79	Peak	Vertical
4	2483.50	27.65	30.25	30.25	8.5	36.15	54	-17.85	AV	Vertical

Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. The other emission levels were very low against the limit.
3. Margin = Emission Level - Limit .
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=Average.

RESULT: Pass

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12. AC Power Line Conducted Emission

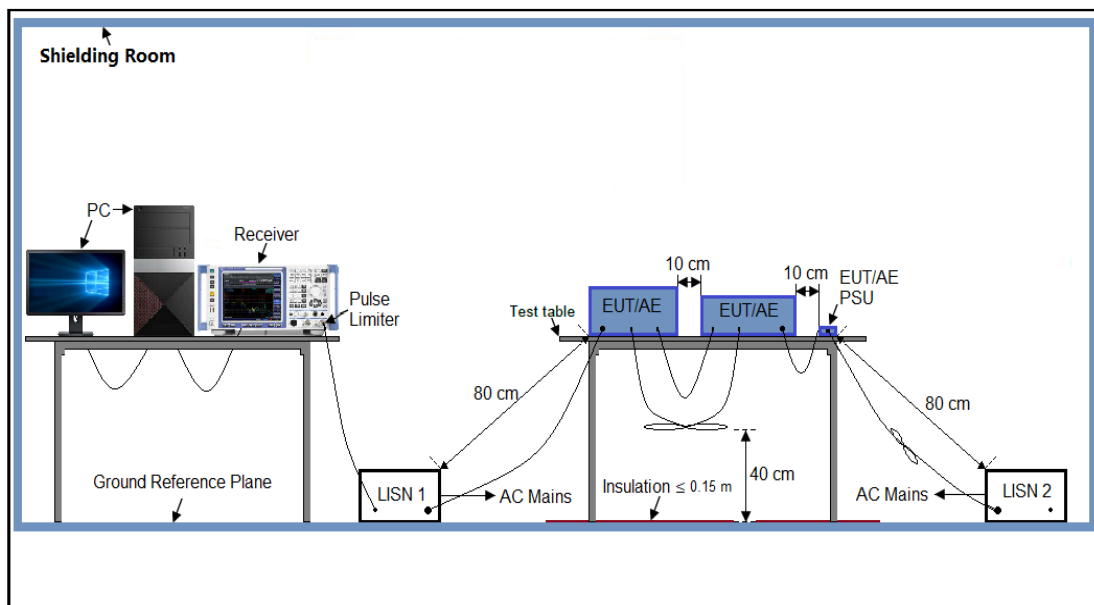
12.1 Measurement Limits

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2 Block Diagram of Line Conducted Emission Test



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12.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side).
7. Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

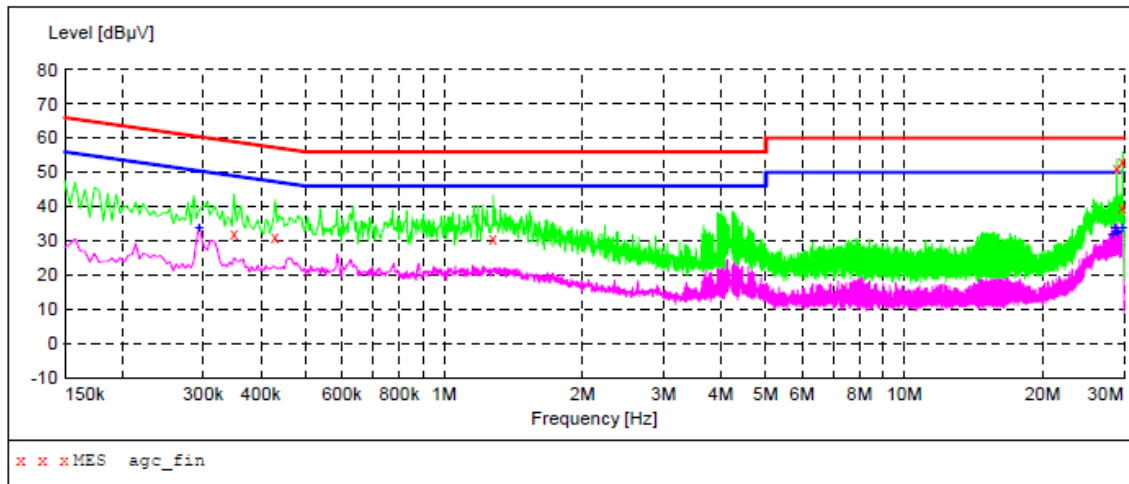
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.
4. A conducted emission is calculated by the following equation:
 - Measurement Level (dBμV) = Receiver reading (dBμV) + Transd (dB)
 - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

12.5 Test Result of Line Conducted Emission Test

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Hot Side
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**MEASUREMENT RESULT: "agc_fin"**

2025/9/22 22:11

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.350000	32.30	10.3	59	26.7	QP	L1
0.430000	31.20	10.3	57	26.1	QP	L1
1.278000	30.70	10.4	56	25.3	QP	L1
28.966000	51.30	17.8	60	8.7	QP	L1
29.786000	39.50	18.1	60	20.5	QP	L1
29.794000	53.20	18.1	60	6.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/9/22 22:11

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.294000	34.20	10.3	50	16.2	AV	L1
28.306000	32.30	17.6	50	17.7	AV	L1
28.734000	33.80	17.8	50	16.2	AV	L1
28.966000	33.00	17.8	50	17.0	AV	L1
28.978000	32.80	17.8	50	17.2	AV	L1
29.794000	33.80	18.1	50	16.2	AV	L1

RESULT: Pass

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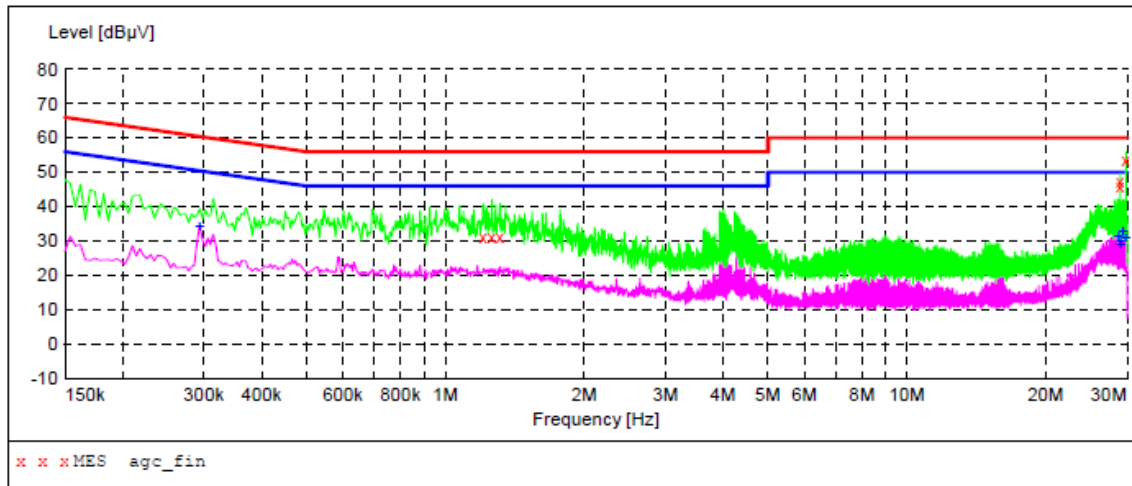
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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/9/22 22:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
1.206000	31.10	10.4	56	24.9	QP	N
1.262000	31.10	10.4	56	24.9	QP	N
1.314000	31.30	10.4	56	24.7	QP	N
28.962000	47.60	17.8	60	12.4	QP	N
28.970000	46.10	17.8	60	13.9	QP	N
29.794000	53.40	18.1	60	6.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/9/22 22:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.294000	34.30	10.3	50	16.1	AV	N
28.774000	31.80	17.8	50	18.2	AV	N
28.962000	30.20	17.8	50	19.8	AV	N
28.970000	29.40	17.8	50	20.6	AV	N
29.394000	33.20	18.0	50	16.8	AV	N
29.790000	31.00	18.1	50	19.0	AV	N

RESULT: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16840241206AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16840241206AP03

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-----End of Report-----

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