

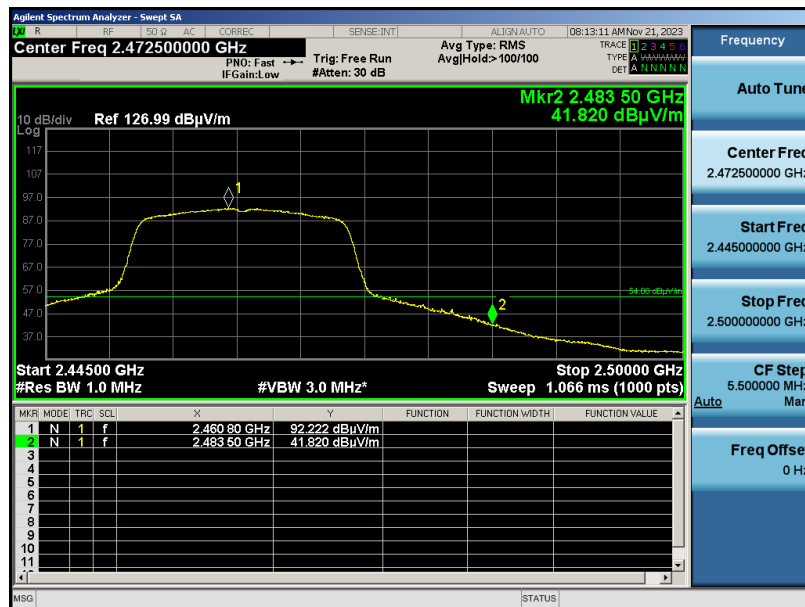
Band Edge Emission Test Results for Restricted Bands

EUT Name	Touch Screen Karaoke Machine Speaker	Model Name	VK80 Pro
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V by battery
Test Mode	Mode 9	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

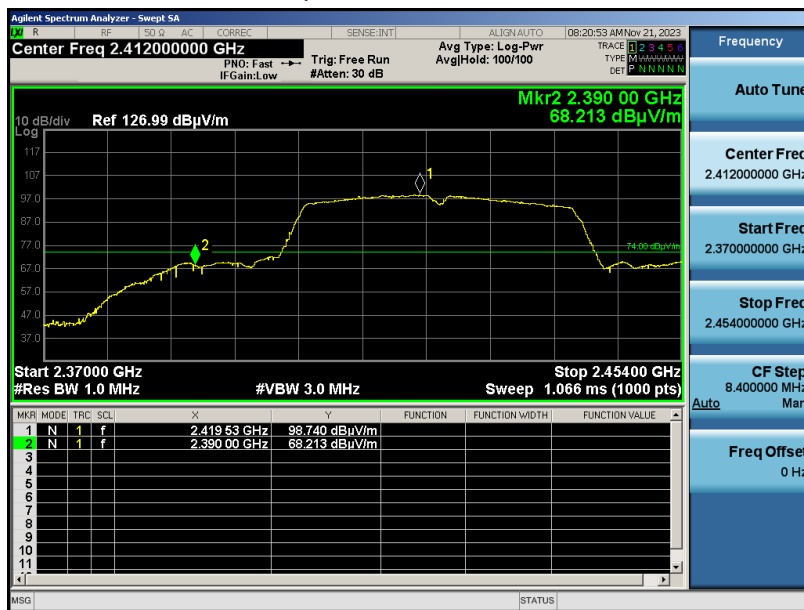
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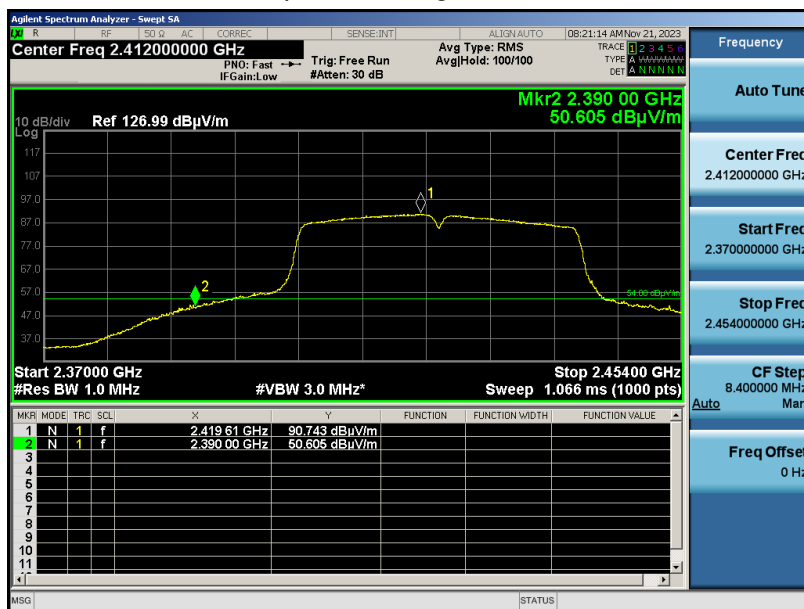
Band Edge Emission Test Results for Restricted Bands

EUT Name	Touch Screen Karaoke Machine Speaker	Model Name	VK80 Pro
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V by battery
Test Mode	Mode 10	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

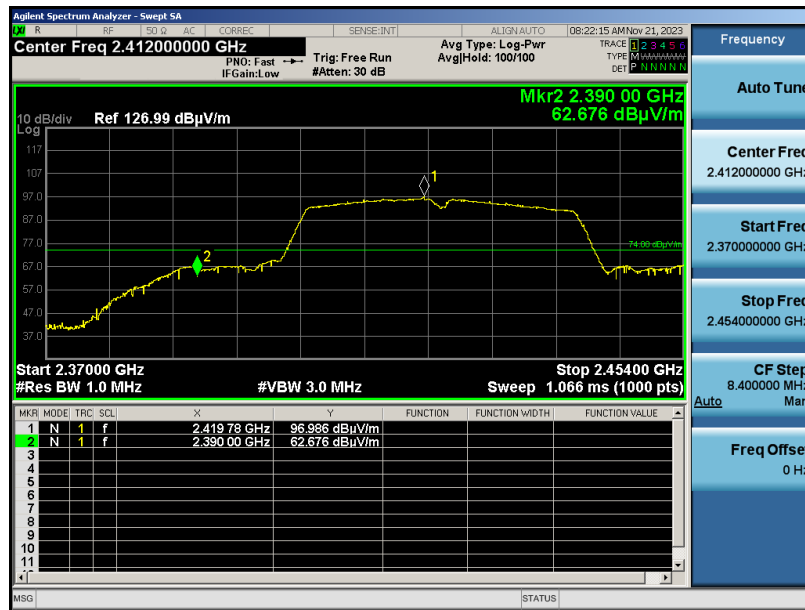
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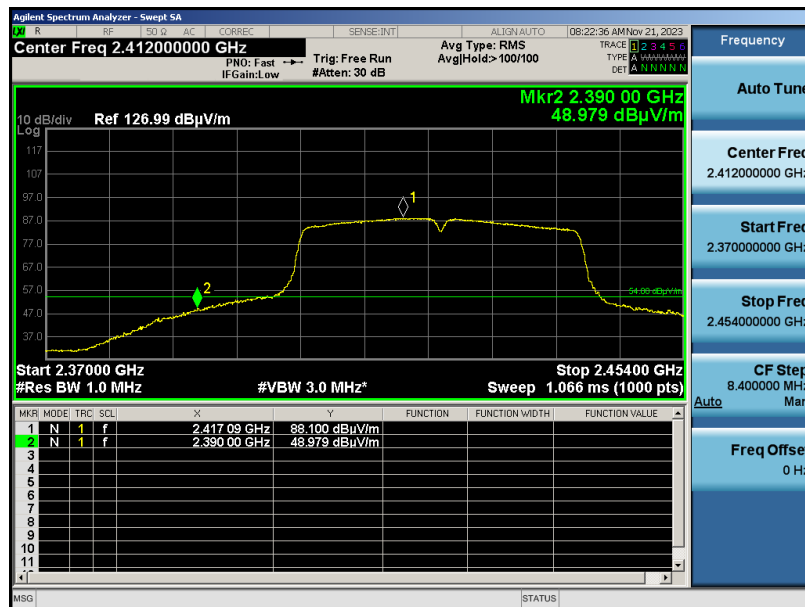
Band Edge Emission Test Results for Restricted Bands

EUT Name	Touch Screen Karaoke Machine Speaker	Model Name	VK80 Pro
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V by battery
Test Mode	Mode 10	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

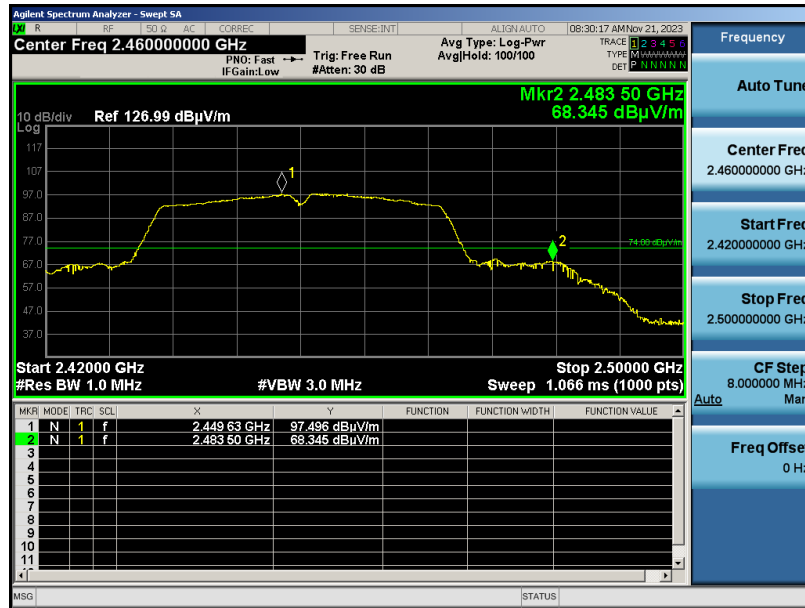
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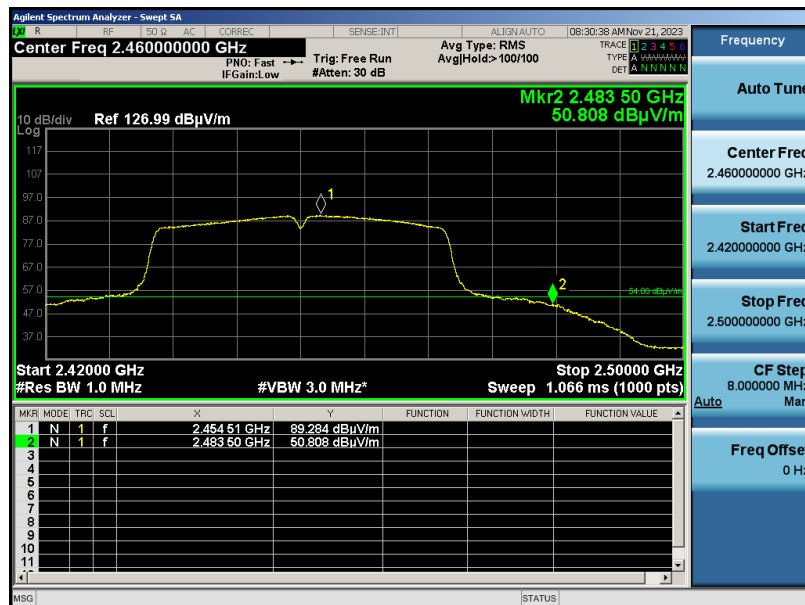
Band Edge Emission Test Results for Restricted Bands

EUT Name	Touch Screen Karaoke Machine Speaker	Model Name	VK80 Pro
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V by battery
Test Mode	Mode 12	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

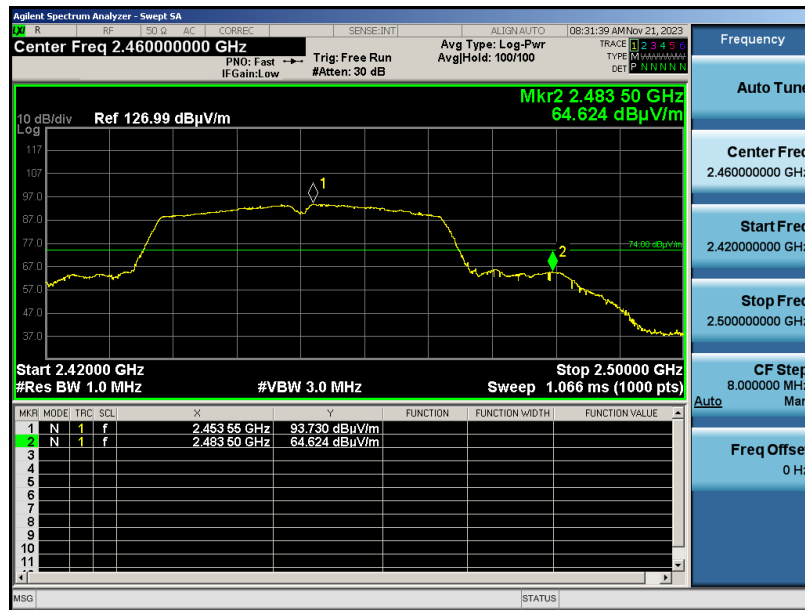
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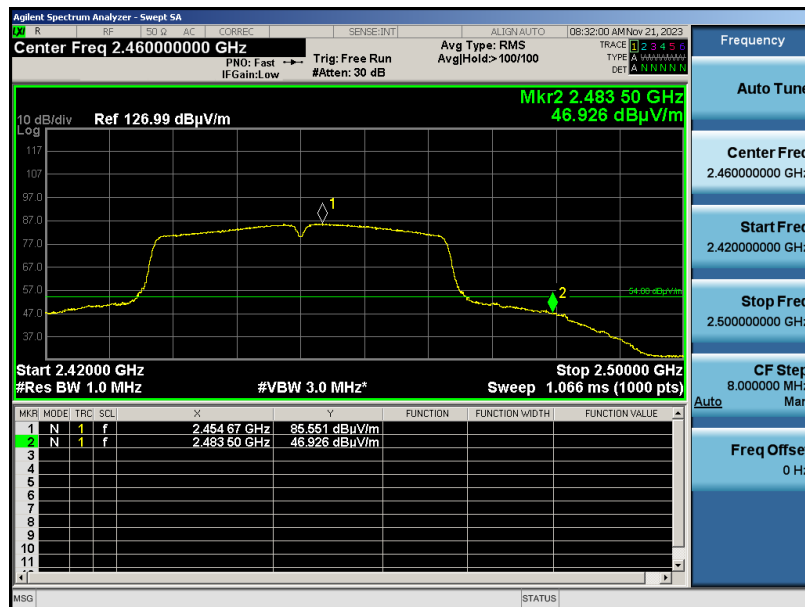
Band Edge Emission Test Results for Restricted Bands

EUT Name	Touch Screen Karaoke Machine Speaker	Model Name	VK80 Pro
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V by battery
Test Mode	Mode 12	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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12. AC Power Line Conducted Emission

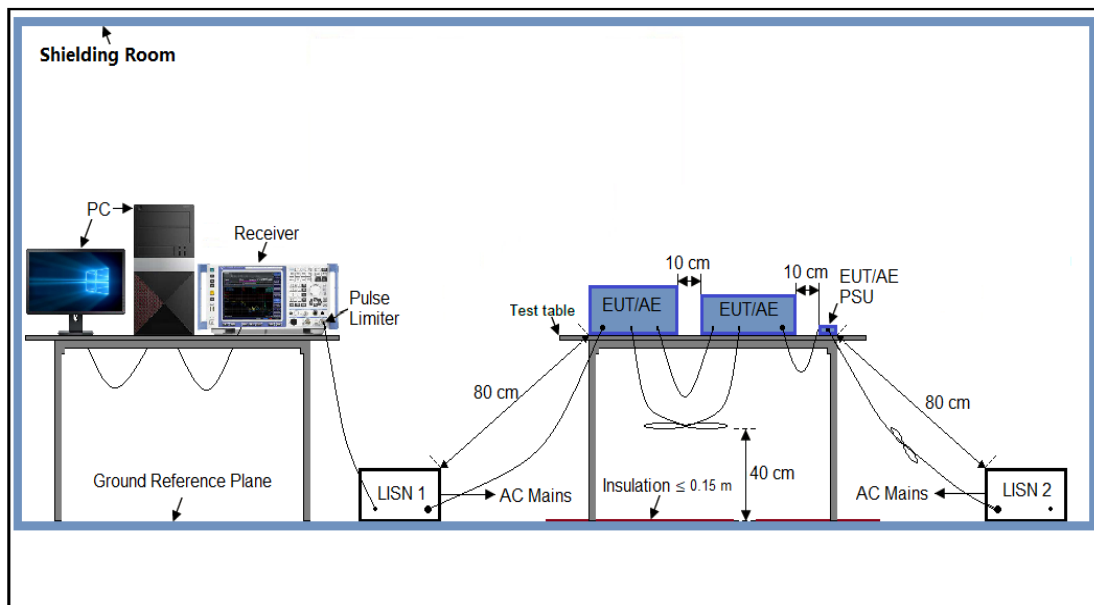
12.1 Measurement Limits

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). 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.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. 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

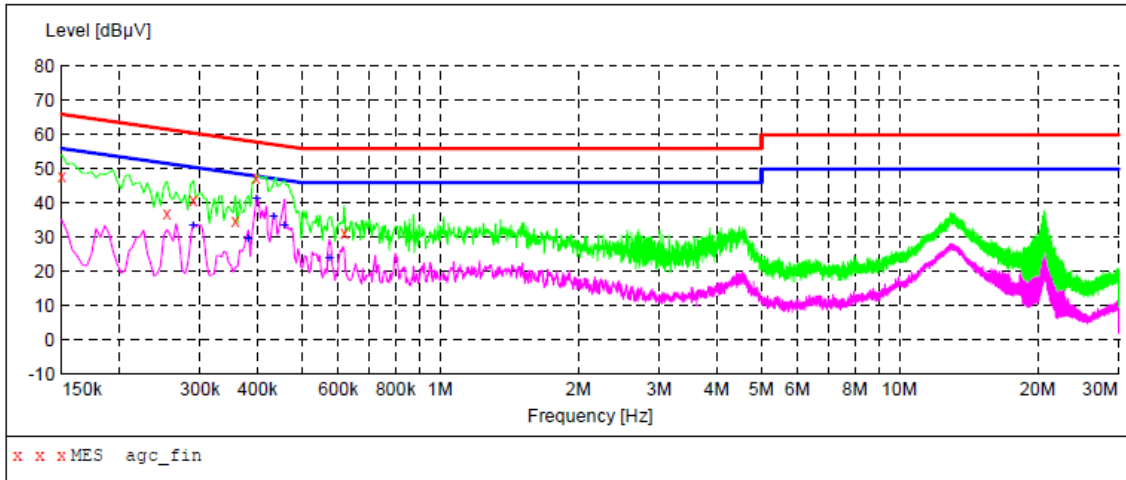
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

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"

2023/9/18 10:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	48.00	6.1	66	18.0	QP	L1
0.254000	37.20	6.1	62	24.4	QP	L1
0.290000	40.80	6.1	61	19.7	QP	L1
0.358000	34.90	6.1	59	23.9	QP	L1
0.398000	47.30	6.1	58	10.6	QP	L1
0.618000	31.20	6.2	56	24.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2023/9/18 10:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.290000	33.30	6.1	51	17.2	AV	L1
0.382000	29.70	6.1	48	18.5	AV	L1
0.398000	41.30	6.1	48	6.6	AV	L1
0.434000	36.30	6.1	47	10.9	AV	L1
0.458000	33.60	6.1	47	13.1	AV	L1
0.574000	24.10	6.2	46	21.9	AV	L1

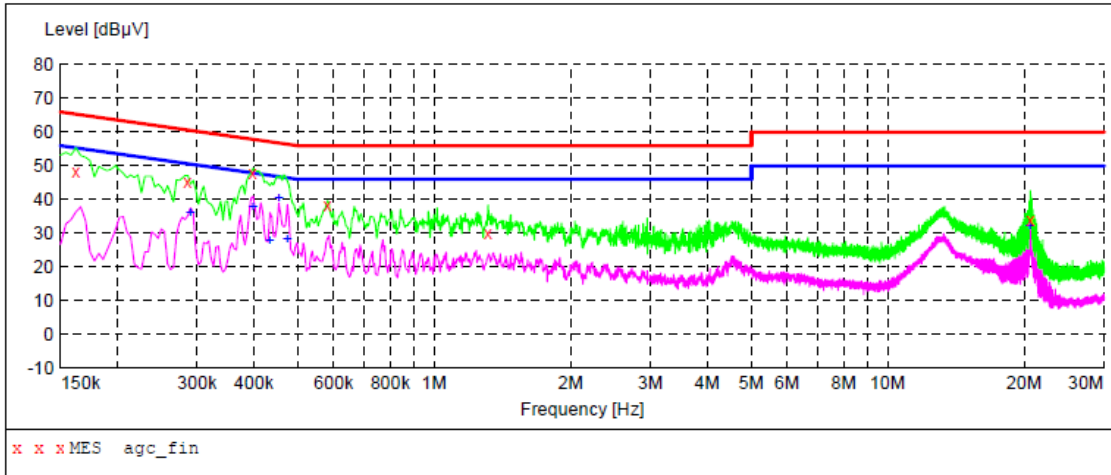
RESULT: Pass

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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"

2023/9/18 10:44

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	48.40	6.1	65	17.0	QP	N
0.286000	45.20	6.1	61	15.4	QP	N
0.398000	47.90	6.1	58	10.0	QP	N
0.582000	38.30	6.2	56	17.7	QP	N
1.314000	30.10	6.2	56	25.9	QP	N
20.630000	33.90	7.2	60	26.1	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/9/18 10:44

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.290000	36.30	6.1	51	14.2	AV	N
0.398000	38.00	6.1	48	9.9	AV	N
0.434000	28.00	6.1	47	19.2	AV	N
0.454000	40.30	6.1	47	6.5	AV	N
0.474000	28.30	6.1	46	18.1	AV	N
20.626000	32.20	7.2	50	17.8	AV	N

RESULT: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC13894230901AP01

Appendix II: Photographs of EUT

Refer to the Report No.: AGC13894230901AP02

----End of Report----

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