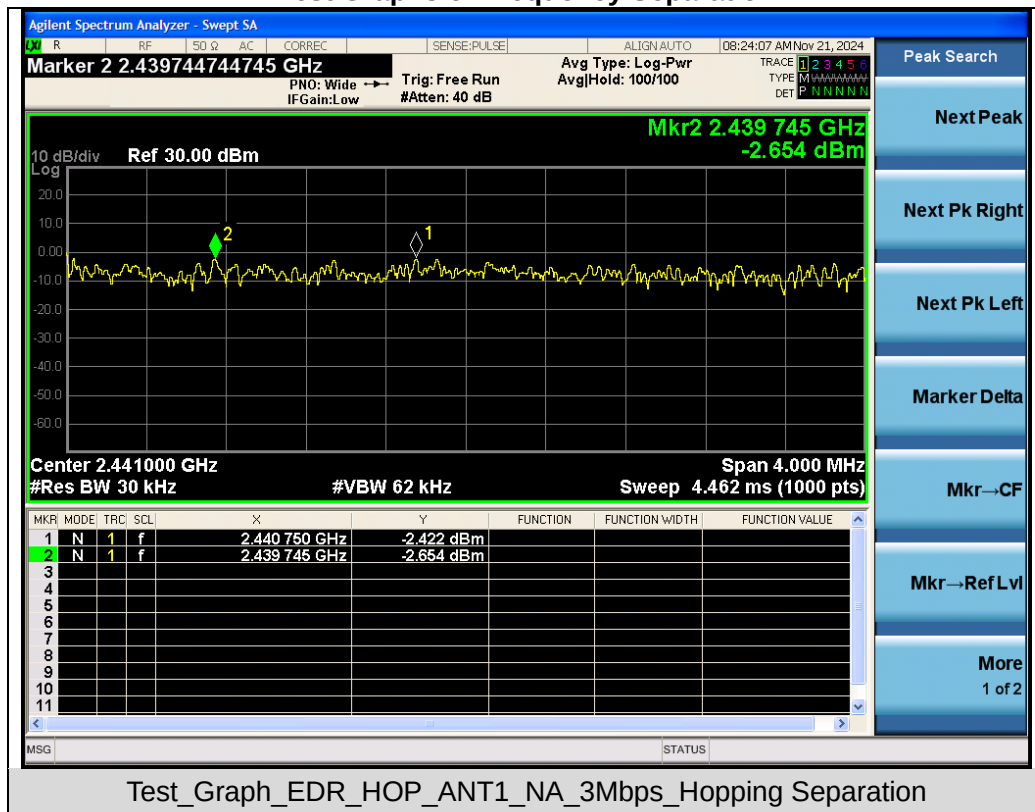


Test Graphs of Frequency Separation



Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Hopping Separation

Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.

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13. AC Power Line Conducted Emission Test

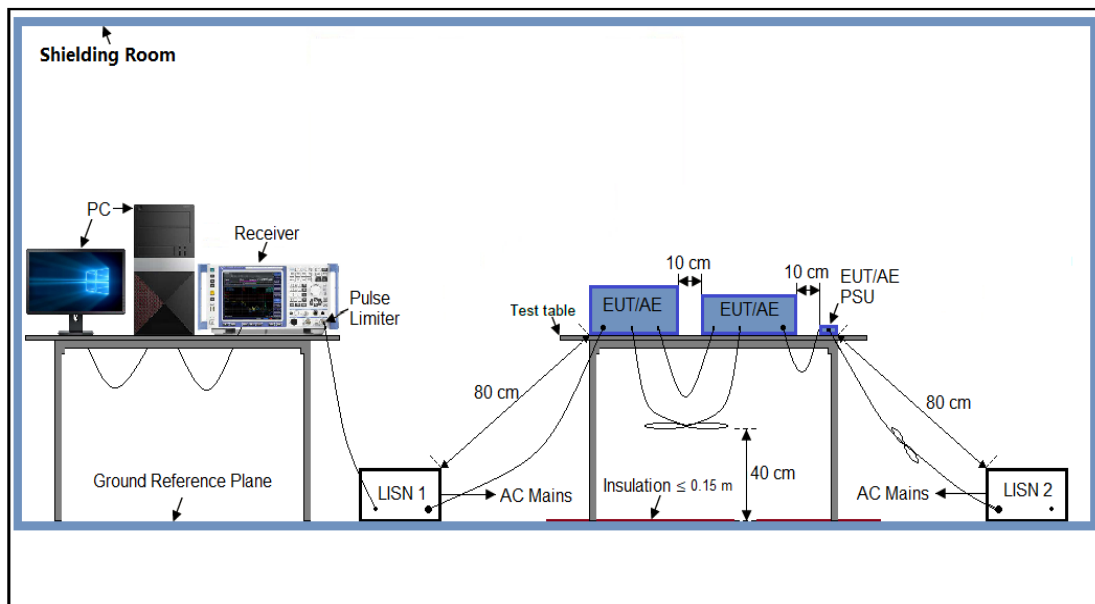
13.1 Measurement Limit

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.

13.2 Measurement Setup (Block Diagram of Configuration)



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13.3 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.

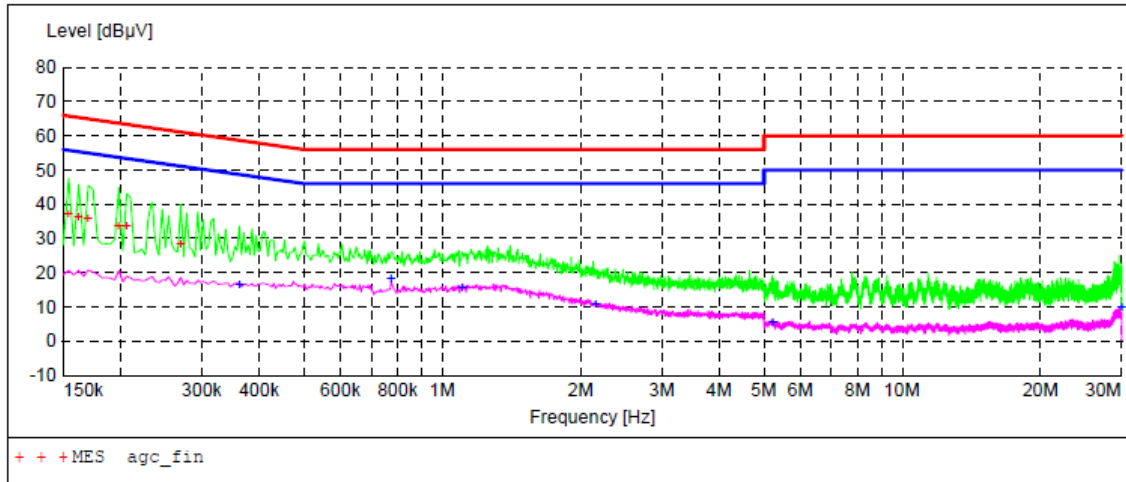
13.4 Final Procedure of Line Conducted Emission Test

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 condition(s) was reported on the Summary Data page.

13.5 Measurement Results

AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 1#)	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2024/11/15 11:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	37.10	6.1	66	28.7	QP	L1
0.162000	36.20	6.1	65	29.2	QP	L1
0.170000	35.90	6.1	65	29.1	QP	L1
0.198000	33.40	6.1	64	30.3	QP	L1
0.206000	33.50	6.1	63	29.9	QP	L1
0.270000	28.30	6.1	61	32.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	16.40	6.1	49	32.3	AV	L1
0.774000	18.30	6.2	46	27.7	AV	L1
1.106000	15.50	6.2	46	30.5	AV	L1
2.154000	10.90	6.2	46	35.1	AV	L1
5.226000	5.50	6.4	50	44.5	AV	L1
29.994000	9.80	8.3	50	40.2	AV	L1

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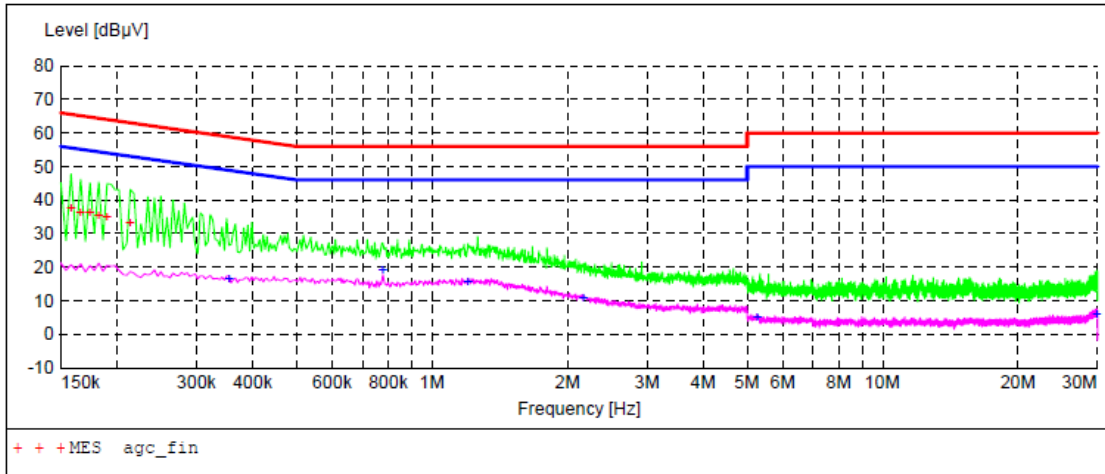
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AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 1#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2024/11/15 11:23

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	37.60	6.1	66	28.0	QP	N
0.166000	36.40	6.1	65	28.8	QP	N
0.174000	36.10	6.1	65	28.7	QP	N
0.182000	35.40	6.1	64	29.0	QP	N
0.190000	34.80	6.1	64	29.2	QP	N
0.214000	33.30	6.1	63	29.7	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:23

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.354000	16.60	6.1	49	32.3	AV	N
0.778000	18.90	6.2	46	27.1	AV	N
1.202000	15.60	6.2	46	30.4	AV	N
2.166000	10.80	6.3	46	35.2	AV	N
5.266000	4.90	6.4	50	45.1	AV	N
29.846000	5.80	8.3	50	44.2	AV	N

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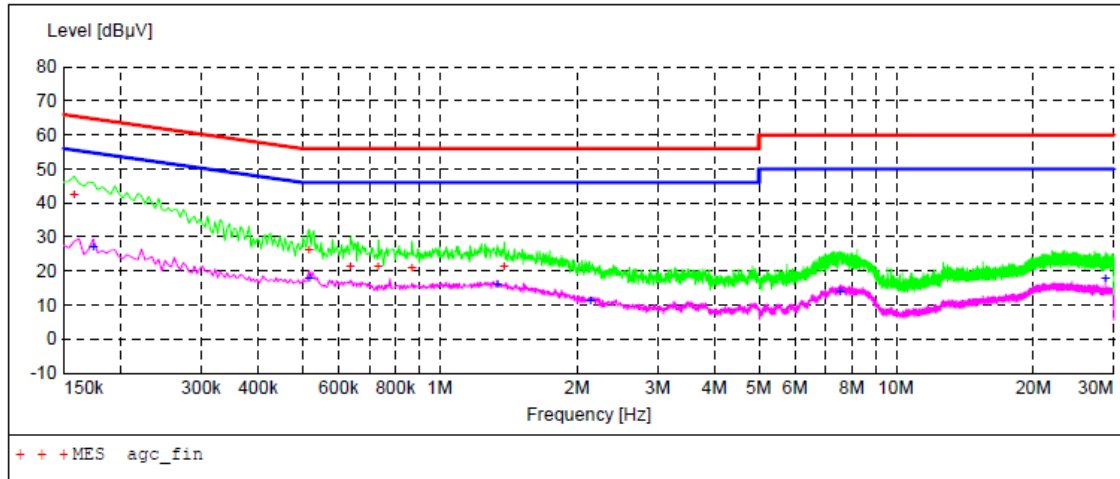
AC Power Line Conducted Emission Test

Test Mode

Mode 1(Adapter 2#)

LISN Line

Hot Side

**MEASUREMENT RESULT: "agc_fin"**

2024/11/15 11:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	42.20	6.1	66	23.4	QP	L1
0.518000	25.90	6.2	56	30.1	QP	L1
0.638000	21.20	6.2	56	34.8	QP	L1
0.734000	21.10	6.2	56	34.9	QP	L1
0.870000	21.00	6.2	56	35.0	QP	L1
1.386000	21.30	6.2	56	34.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.174000	26.80	6.1	55	28.0	AV	L1
0.518000	18.00	6.2	46	28.0	AV	L1
1.338000	16.20	6.2	46	29.8	AV	L1
2.138000	11.20	6.2	46	34.8	AV	L1
7.542000	13.70	6.5	50	36.3	AV	L1
28.738000	18.00	8.2	50	32.0	AV	L1

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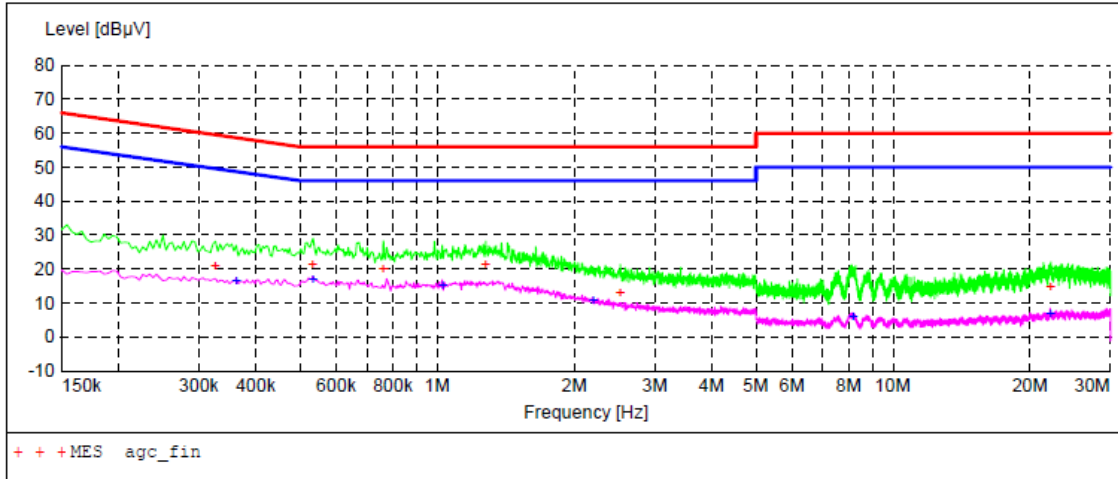
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AC Power Line Conducted Emission Test

Test Mode	Mode 1(Adapter 2#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2024/11/15 11:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.326000	21.00	6.1	60	38.6	QP	N
0.534000	21.30	6.2	56	34.7	QP	N
0.762000	20.00	6.2	56	36.0	QP	N
1.278000	21.20	6.2	56	34.8	QP	N
2.522000	13.10	6.3	56	42.9	QP	N
22.202000	14.70	7.5	60	45.3	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	16.40	6.1	49	32.3	AV	N
0.534000	16.70	6.2	46	29.3	AV	N
1.026000	15.30	6.2	46	30.7	AV	N
2.198000	10.80	6.3	46	35.2	AV	N
8.178000	6.00	6.6	50	44.0	AV	N
22.122000	6.80	7.5	50	43.2	AV	N

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499241101AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499241101AP03

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

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