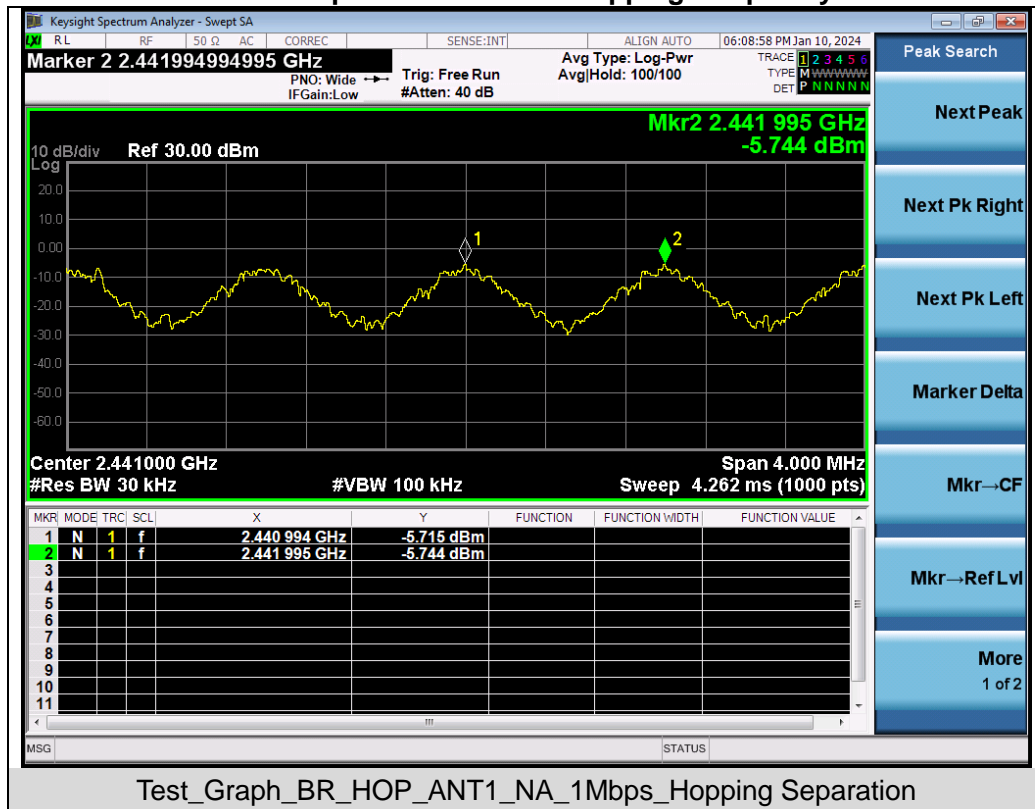


Test Graphs of Number of Hopping Frequency



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

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13. AC Power Line Conducted Emission Test

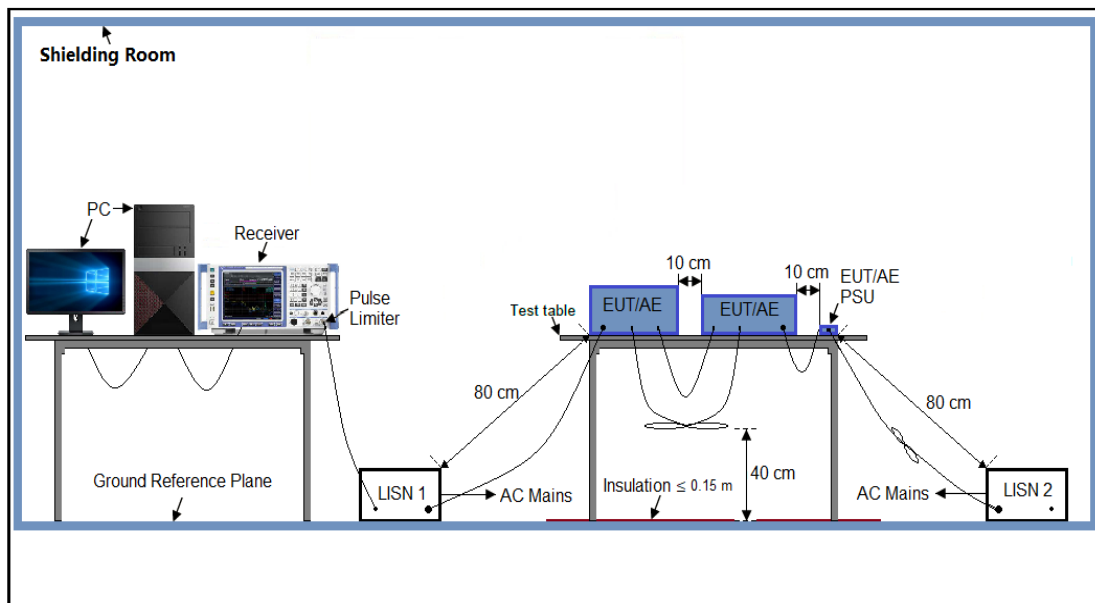
13.1 Measurement Limit

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.

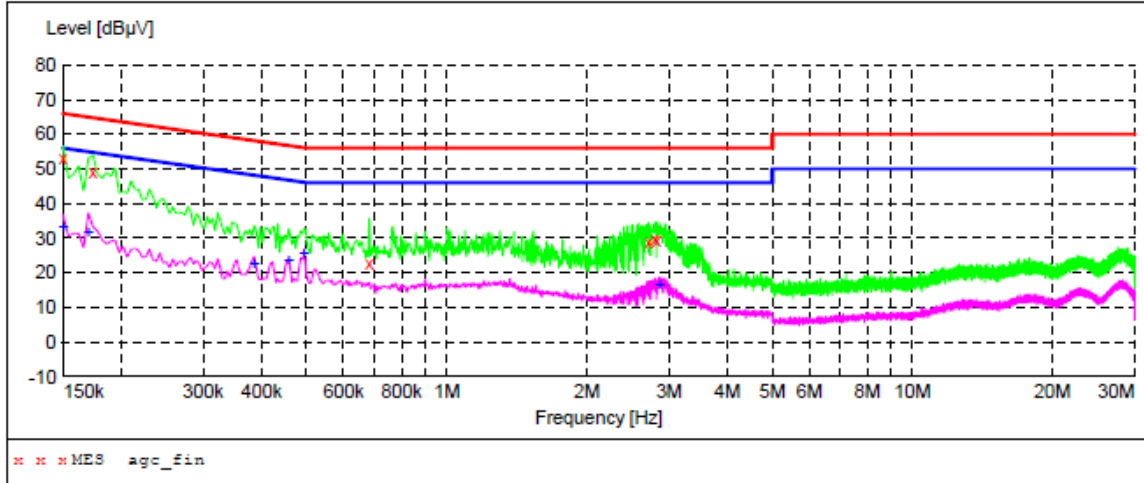
13.5 Measurement Results

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AC Power Line Conducted Emission Test-With Adapter 1

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

2023/12/29 15:23

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	52.90	6.1	66	13.1	QP	L1
0.174000	48.80	6.1	65	16.0	QP	L1
0.682000	22.60	6.2	56	33.4	QP	L1
2.710000	29.00	6.3	56	27.0	QP	L1
2.802000	29.60	6.3	56	26.4	QP	L1
2.826000	29.50	6.3	56	26.5	QP	L1

MEASUREMENT RESULT: "agc_fin2"

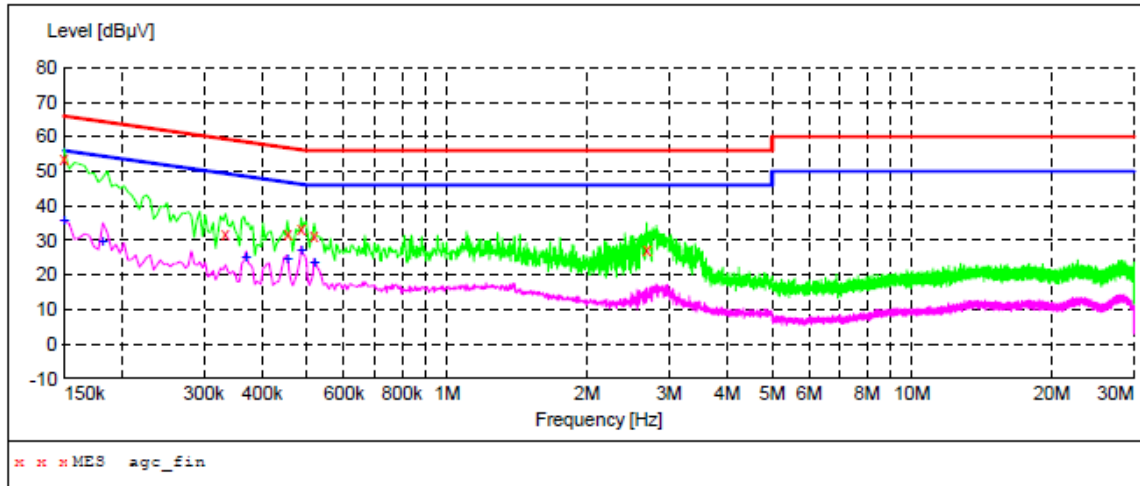
2023/12/29 15:23

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	33.20	6.1	56	22.8	AV	L1
0.170000	32.00	6.1	55	23.0	AV	L1
0.386000	22.60	6.1	48	25.5	AV	L1
0.458000	23.70	6.1	47	23.0	AV	L1
0.494000	25.50	6.1	46	20.6	AV	L1
2.858000	16.80	6.3	46	29.2	AV	L1

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AC Power Line Conducted Emission Test-With Adapter 1

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

2023/12/29 15:20

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	53.40	6.1	66	12.6	QP	N
0.334000	31.60	6.1	59	27.8	QP	N
0.454000	31.80	6.1	57	25.0	QP	N
0.486000	33.10	6.1	56	23.1	QP	N
0.518000	31.10	6.2	56	24.9	QP	N
2.686000	27.50	6.3	56	28.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

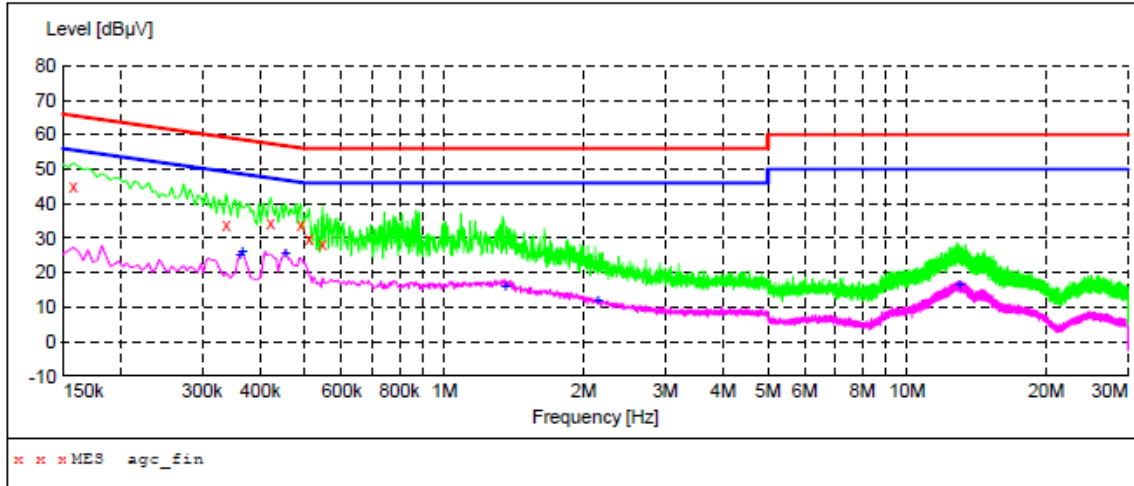
2023/12/29 15:20

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	36.00	6.1	56	20.0	AV	N
0.182000	29.70	6.1	54	24.7	AV	N
0.370000	25.00	6.1	49	23.5	AV	N
0.454000	24.70	6.1	47	22.1	AV	N
0.486000	27.30	6.1	46	18.9	AV	N
0.518000	23.50	6.2	46	22.5	AV	N

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AC Power Line Conducted Emission Test-With Adapter 2

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

2023/12/29 14:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	45.00	6.1	66	20.6	QP	L1
0.338000	33.70	6.1	59	25.6	QP	L1
0.422000	34.60	6.1	57	22.8	QP	L1
0.490000	33.80	6.1	56	22.4	QP	L1
0.510000	29.90	6.2	56	26.1	QP	L1
0.546000	28.10	6.2	56	27.9	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2023/12/29 14:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	25.20	6.1	49	23.5	AV	L1
0.366000	26.10	6.1	49	22.5	AV	L1
0.454000	25.70	6.1	47	21.1	AV	L1
1.354000	16.00	6.2	46	30.0	AV	L1
2.150000	11.90	6.2	46	34.1	AV	L1
12.966000	16.40	6.8	50	33.6	AV	L1

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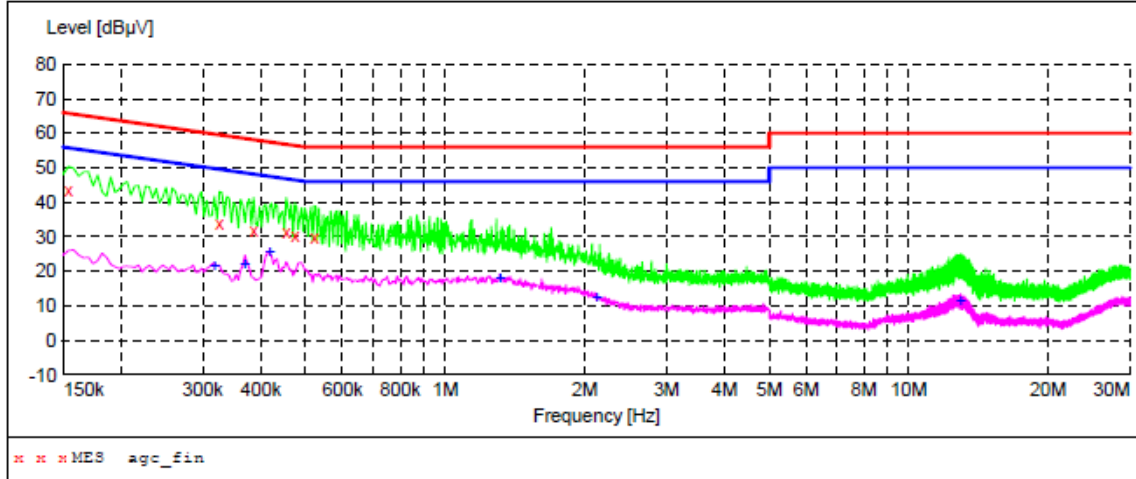
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AC Power Line Conducted Emission Test-With Adapter 2

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

2023/12/29 14:35

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	43.20	6.1	66	22.6	QP	N
0.326000	33.60	6.1	60	26.0	QP	N
0.386000	32.00	6.1	58	26.1	QP	N
0.454000	31.30	6.1	57	25.5	QP	N
0.474000	30.50	6.1	56	25.9	QP	N
0.522000	29.60	6.2	56	26.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/12/29 14:35

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.318000	21.90	6.1	50	27.9	AV	N
0.370000	22.40	6.1	49	26.1	AV	N
0.418000	25.50	6.1	48	22.0	AV	N
1.314000	18.20	6.2	46	27.8	AV	N
2.122000	12.80	6.2	46	33.2	AV	N
12.938000	11.80	6.8	50	38.2	AV	N

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC10514231205AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC10514231205AP03

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

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