

Note:

1. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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12. AC Power Line Conducted Emission Test

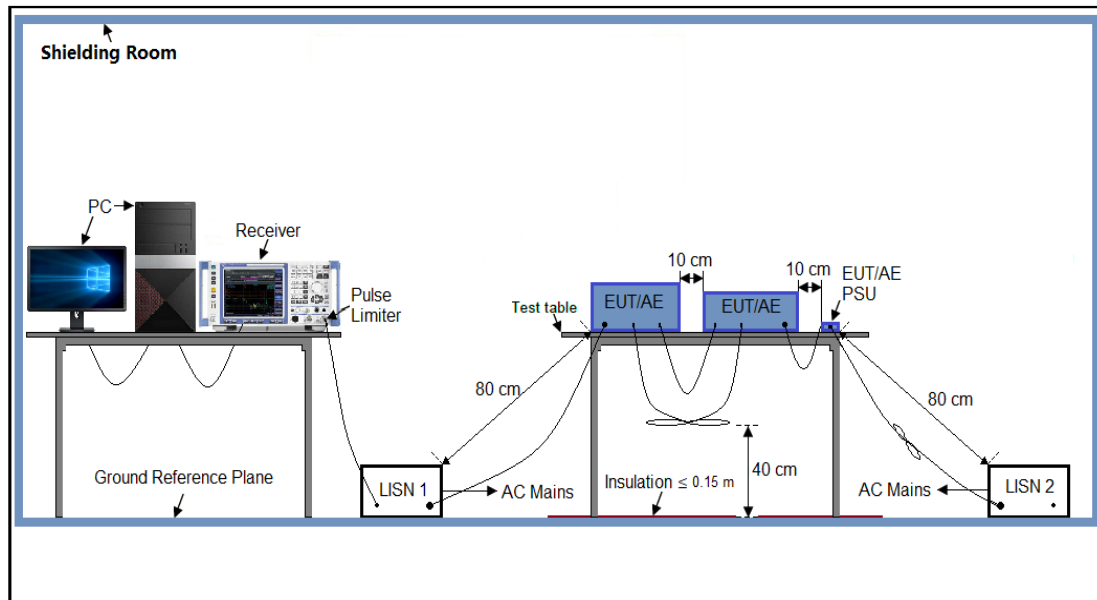
12.1 Measurement limit

Frequency	Maximum RF Line Voltage	
	Q.P (dBμV)	Average (dBμV)
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 0.50MHz.

12.2 Block Diagram of Line Conducted Emission Test



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12.3 Preliminary Procedure of Line Conducted Emission Test

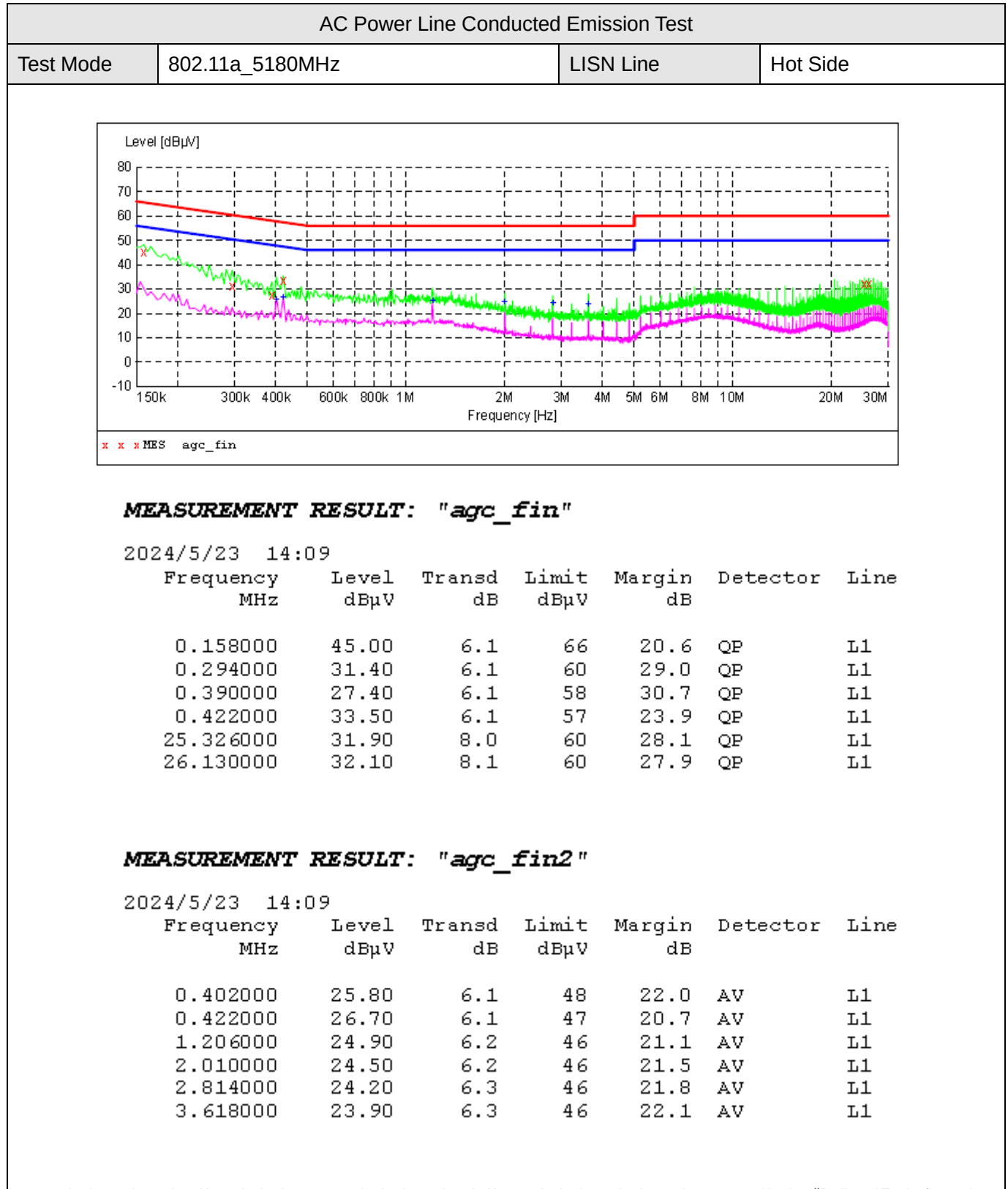
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground 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 charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using 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

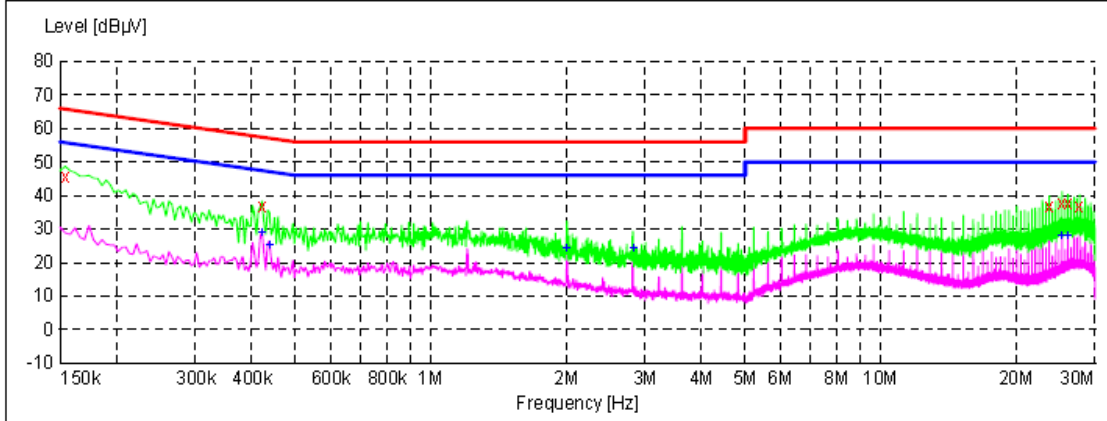
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.
4. The worst mode is 802.11n20 5180MHz, antenna 1 and antenna 2 work together.

12.5 Test Result of Line Conducted Emission Test



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Result: Pass

AC Power Line Conducted Emission Test							
Test Mode	802.11a_5180MHz			LISN Line	Neutral Side		
Level [dBμV]  x x x MES agc_fin							
MEASUREMENT RESULT: "agc_fin"							
2024/5/23 14:16							
Frequency	Level	Transd	Limit	Margin	Detector	Line	
MHz	dBμV	dB	dBμV	dB			
0.154000	45.70	6.1	66	20.1	QP	N	
0.422000	36.70	6.1	57	20.7	QP	N	
23.722000	36.70	7.8	60	23.3	QP	N	
25.330000	37.80	8.0	60	22.2	QP	N	
26.134000	37.60	8.1	60	22.4	QP	N	
27.742000	36.80	8.2	60	23.2	QP	N	
MEASUREMENT RESULT: "agc_fin2"							
2024/5/23 14:16							
Frequency	Level	Transd	Limit	Margin	Detector	Line	
MHz	dBμV	dB	dBμV	dB			
0.422000	28.80	6.1	47	18.6	AV	N	
0.438000	25.10	6.1	47	22.0	AV	N	
2.010000	24.30	6.2	46	21.7	AV	N	
2.814000	24.00	6.3	46	22.0	AV	N	
25.330000	27.90	8.0	50	22.1	AV	N	
26.134000	28.10	8.1	50	21.9	AV	N	

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC11758240549AP02

Appendix II: Photographs of EUT

Refer to the Report No.: AGC11758240549AP03

----End of Report----

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