

Band Edge Emission Test Results for Restricted Bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25.2°C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	DC 7.2V

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	51.65	29.99	30.21	8.35	59.78	74	14.22	Peak	Horizontal
2	2390.00	31.78	29.99	30.21	8.35	39.91	54	14.09	AV	Horizontal
3	2390.00	38.58	29.99	30.21	8.35	46.71	74	27.29	Peak	Vertical
4	2390.00	29.28	29.99	30.21	8.35	37.41	54	16.59	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	37.39	30.25	30.25	8.5	45.89	74	28.11	Peak	Horizontal
2	2483.50	29.23	30.25	30.25	8.5	37.73	54	16.27	AV	Horizontal
3	2483.50	45.50	30.25	30.25	8.5	54.00	74	20.00	Peak	Vertical
4	2483.50	25.95	30.25	30.25	8.5	34.45	54	19.55	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	51.46	29.99	30.21	8.35	59.59	74	14.41	Peak	Horizontal
2	2390.00	38.00	29.99	30.21	8.35	46.13	54	7.87	AV	Horizontal
3	2390.00	50.85	29.99	30.21	8.35	58.98	74	15.02	Peak	Vertical
4	2390.00	36.07	29.99	30.21	8.35	44.2	54	9.80	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	49.14	30.25	30.25	8.5	57.64	74	16.36	Peak	Horizontal
2	2483.50	37.40	30.25	30.25	8.5	45.9	54	8.10	AV	Horizontal
3	2483.50	47.45	30.25	30.25	8.5	55.95	74	18.05	Peak	Vertical
4	2483.50	35.57	30.25	30.25	8.5	44.07	54	9.93	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	52.60	29.99	30.21	8.35	60.73	74	13.27	Peak	Horizontal
2	2390.00	39.96	29.99	30.21	8.35	48.09	54	5.91	AV	Horizontal
3	2390.00	49.42	29.99	30.21	8.35	57.55	74	16.45	Peak	Vertical
4	2390.00	37.20	29.99	30.21	8.35	45.33	54	8.67	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	47.14	30.25	30.25	8.5	55.64	74	18.36	Peak	Horizontal
2	2483.50	37.85	30.25	30.25	8.5	46.35	54	7.65	AV	Horizontal
3	2483.50	46.13	30.25	30.25	8.5	54.63	74	19.37	Peak	Vertical
4	2483.50	33.57	30.25	30.25	8.5	42.07	54	11.93	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	50.19	29.99	30.21	8.35	58.32	74	15.68	Peak	Horizontal
2	2390.00	41.29	29.99	30.21	8.35	49.42	54	4.58	AV	Horizontal
3	2390.00	49.01	29.99	30.21	8.35	57.14	74	16.86	Peak	Vertical
4	2390.00	38.97	29.99	30.21	8.35	47.1	54	6.90	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	50.74	30.25	30.25	8.5	59.24	74	14.76	Peak	Horizontal
2	2483.50	40.83	30.25	30.25	8.5	49.33	54	4.67	AV	Horizontal
3	2483.50	46.38	30.25	30.25	8.5	54.88	74	19.12	Peak	Vertical
4	2483.50	36.38	30.25	30.25	8.5	44.88	54	9.12	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 = Limit - Emission Level.
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

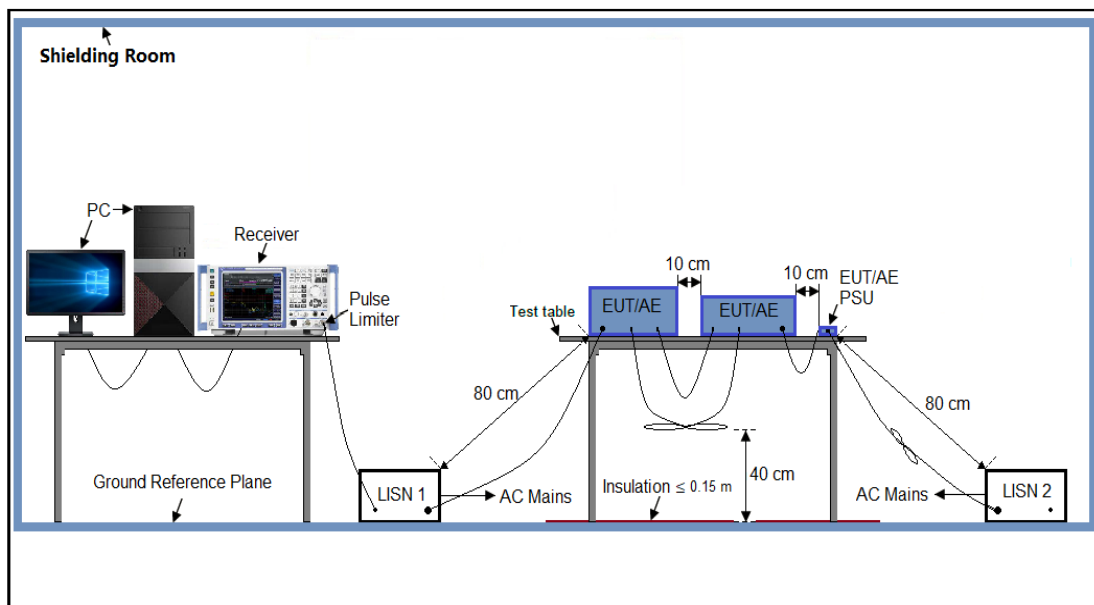
12.1 Measurement Limits

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 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

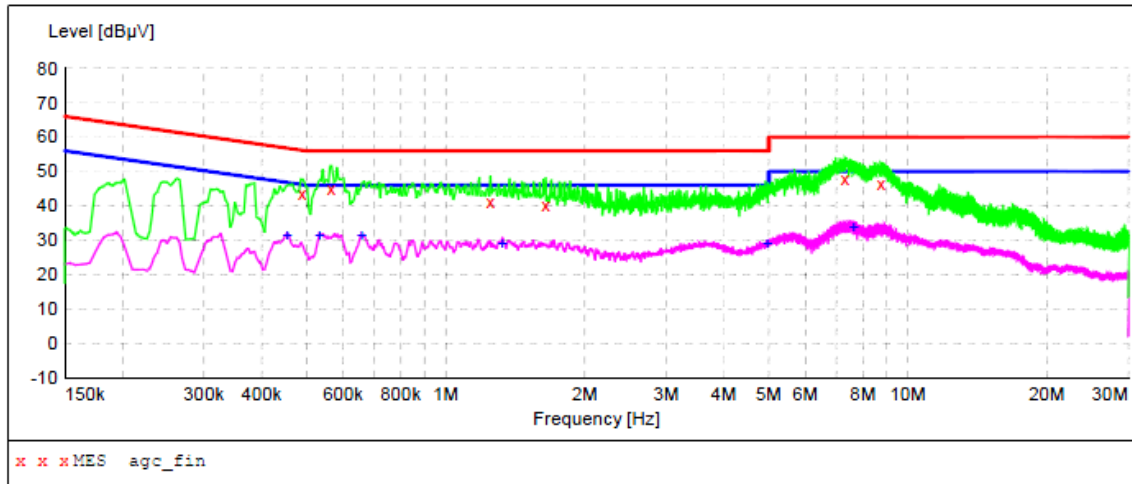
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used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

2025/7/16 16:02

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.490000	43.50	10.3	56	12.7	QP	L1
0.566000	45.10	10.3	56	10.9	QP	L1
1.250000	41.10	10.4	56	14.9	QP	L1
1.646000	40.00	10.4	56	16.0	QP	L1
7.302000	47.90	11.4	60	12.1	QP	L1
8.758000	46.50	11.9	60	13.5	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/7/16 16:02

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.454000	31.80	10.3	47	15.0	AV	L1
0.534000	31.50	10.3	46	14.5	AV	L1
0.658000	31.50	10.3	46	14.5	AV	L1
1.326000	29.20	10.4	46	16.8	AV	L1
4.962000	29.20	10.8	46	16.8	AV	L1
7.634000	34.20	11.5	50	15.8	AV	L1

RESULT: Pass

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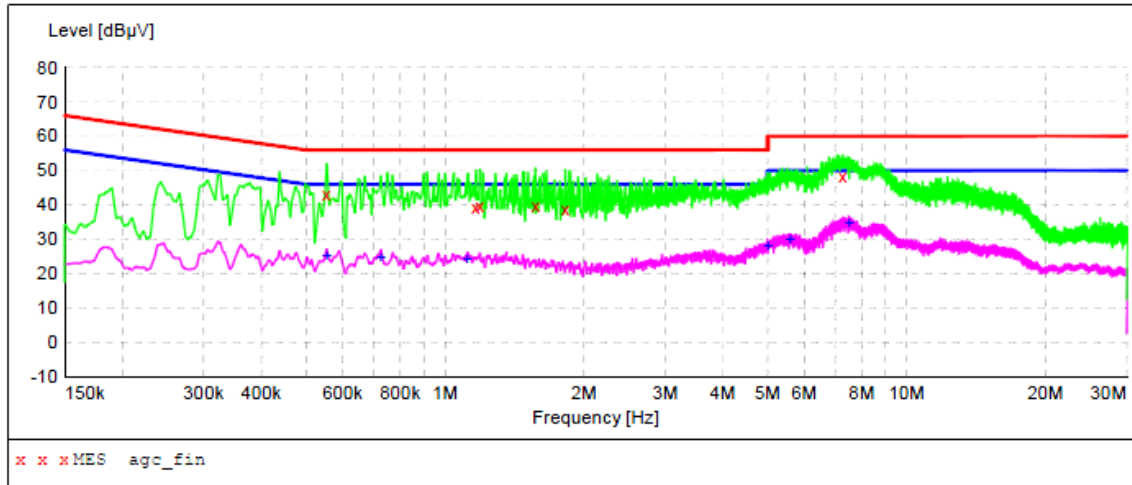
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AC Power Line Conducted Emission Test

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

2025/7/16 15:59

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.554000	43.10	10.3	56	12.9	QP	N
1.166000	39.40	10.4	56	16.6	QP	N
1.190000	39.50	10.4	56	16.5	QP	N
1.570000	39.60	10.4	56	16.4	QP	N
1.822000	38.60	10.4	56	17.4	QP	N
7.278000	48.10	11.4	60	11.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/7/16 15:59

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.554000	25.30	10.3	46	20.7	AV	N
0.726000	24.80	10.3	46	21.2	AV	N
1.118000	24.60	10.4	46	21.4	AV	N
4.994000	28.40	10.8	46	17.6	AV	N
5.582000	30.30	11.0	50	19.7	AV	N
7.498000	34.80	11.5	50	15.2	AV	N

RESULT: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16626250401AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16626250401AP03

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

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