

Band Edge Emission Test Results for Restricted Bands

EUT Name	Ruuvii Air	Model Name	Ruuvii Air
Temperature	22.1°C	Relative Humidity	55.5 %
Pressure	960hPa	Test Voltage	DC 5V

Bluetooth Tx CH00_2402 MHz_1Mbps

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	36.55	29.99	30.21	8.35	44.68	74	29.32	Peak	Horizontal
2	2390.00	26.65	29.99	30.21	8.35	34.78	54	19.22	AV	Horizontal
3	2390.00	34.66	29.99	30.21	8.35	42.79	74	31.21	Peak	Vertical
4	2390.00	24.64	29.99	30.21	8.35	32.77	54	21.23	AV	Vertical

Bluetooth Tx CH39_2480 MHz_1Mbps

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	44.66	30.25	30.25	8.5	53.16	74	20.84	Peak	Horizontal
2	2483.50	28.31	30.25	30.25	8.5	36.81	54	17.19	AV	Horizontal
3	2483.50	39.93	30.25	30.25	8.5	48.43	74	25.57	Peak	Vertical
4	2483.50	23.94	30.25	30.25	8.5	32.44	54	21.56	AV	Vertical

Bluetooth Tx CH00_2402 MHz_2Mbps

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	37.54	29.99	30.21	8.35	45.67	74	28.33	Peak	Horizontal
2	2390.00	26.79	29.99	30.21	8.35	34.92	54	19.08	AV	Horizontal
3	2390.00	31.91	29.99	30.21	8.35	40.04	74	33.96	Peak	Vertical
4	2390.00	23.14	29.99	30.21	8.35	31.27	54	22.73	AV	Vertical

Bluetooth Tx CH39_2480 MHz_2Mbps

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	42.91	30.25	30.25	8.5	51.41	74	22.59	Peak	Horizontal
2	2483.50	30.43	30.25	30.25	8.5	38.93	54	15.08	AV	Horizontal
3	2483.50	40.44	30.25	30.25	8.5	48.94	74	25.06	Peak	Vertical
4	2483.50	26.85	30.25	30.25	8.5	35.35	54	18.66	AV	Vertical

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Bluetooth Tx CH00_2402 MHz_125Kbps										
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	35.71	29.99	30.21	8.35	43.84	74	30.16	Peak	Horizontal
2	2390.00	26.84	29.99	30.21	8.35	34.97	54	19.03	AV	Horizontal
3	2390.00	33.56	29.99	30.21	8.35	41.69	74	32.31	Peak	Vertical
4	2390.00	22.98	29.99	30.21	8.35	31.11	54	22.89	AV	Vertical
Bluetooth Tx CH39_2480 MHz_125Kbps										
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	41.26	30.25	30.25	8.5	49.76	74	24.24	Peak	Horizontal
2	2483.50	27.42	30.25	30.25	8.5	35.92	54	18.08	AV	Horizontal
3	2483.50	35.72	30.25	30.25	8.5	44.22	74	29.78	Peak	Vertical
4	2483.50	25.40	30.25	30.25	8.5	33.90	54	20.10	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 Test

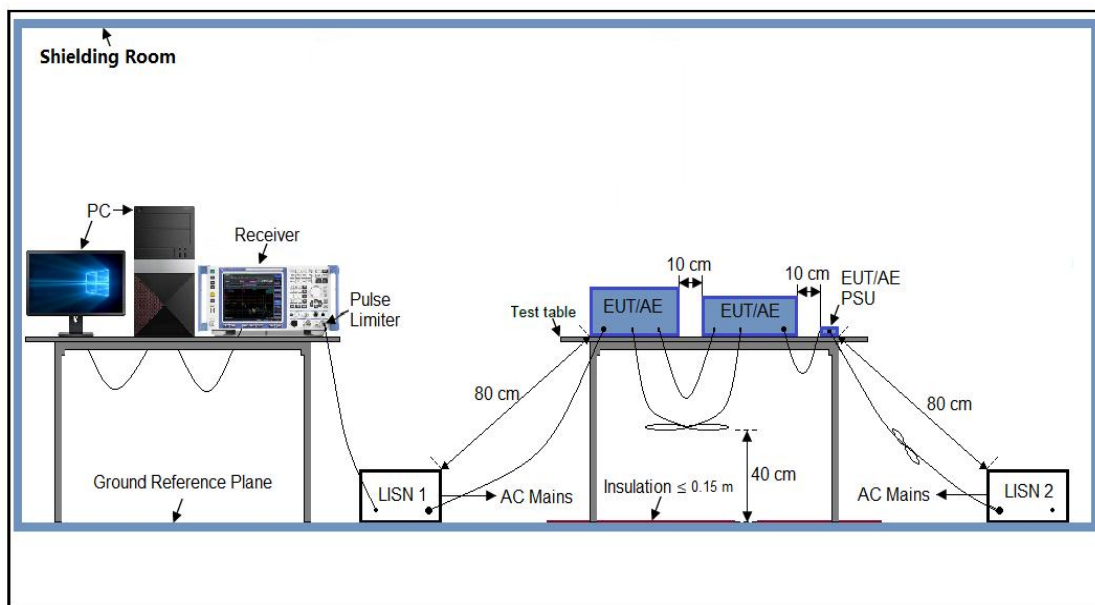
12.1 Measurement Limit

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

12.2 Measurement Setup (Block Diagram of Configuration)



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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).
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.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

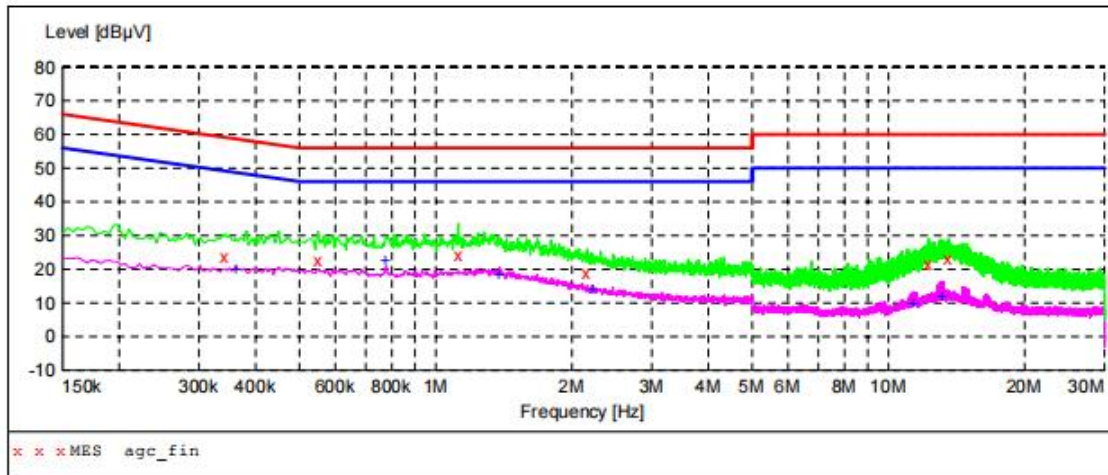
12.4 Final Procedure of Line Conducted Emission Test

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.
3. 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.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB) = AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin = Limit-Level

12.5 Measurement Result

AC Power Line Conducted Emission Test

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

2025/8/28 17:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	23.90	9.9	59	35.3	QP	L1
0.550000	22.80	9.9	56	33.2	QP	L1
1.122000	24.20	9.9	56	31.8	QP	L1
2.162000	18.60	9.9	56	37.4	QP	L1
12.274000	21.40	10.4	60	38.6	QP	L1
13.586000	23.30	10.5	60	36.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/8/28 17:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	19.80	9.9	49	28.9	AV	L1
0.778000	22.70	9.9	46	23.3	AV	L1
1.386000	18.50	9.9	46	27.5	AV	L1
2.222000	14.00	9.9	46	32.0	AV	L1
11.330000	9.90	10.3	50	40.1	AV	L1
13.110000	11.90	10.4	50	38.1	AV	L1

RESULT: PASS

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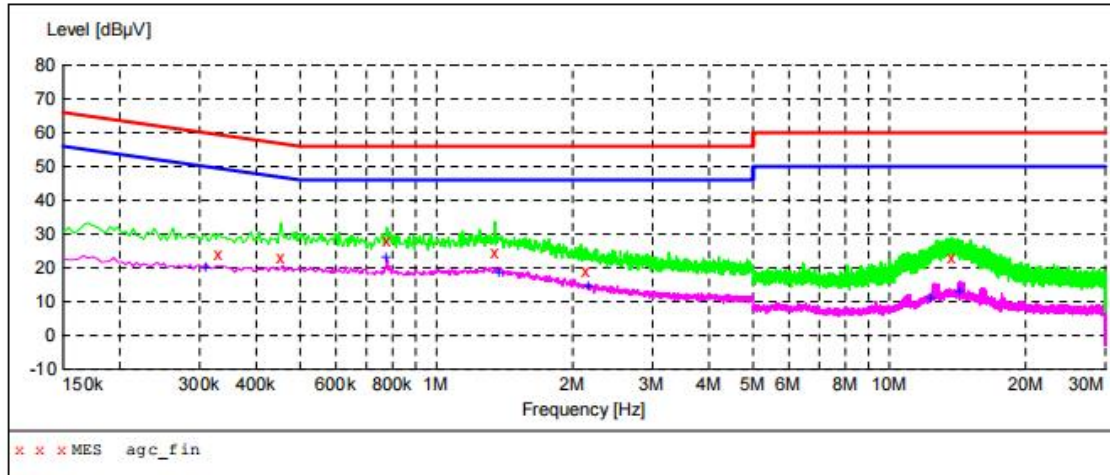
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AC Power Line Conducted Emission Test

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

2025/8/28 17:06

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.330000	24.00	9.9	60	35.5	QP	N
0.454000	23.00	9.9	57	33.8	QP	N
0.778000	28.10	9.9	56	27.9	QP	N
1.346000	24.60	9.9	56	31.4	QP	N
2.138000	19.10	9.9	56	36.9	QP	N
13.730000	23.10	10.5	60	36.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/8/28 17:06

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.310000	20.20	9.9	50	29.8	AV	N
0.778000	23.00	9.9	46	23.0	AV	N
1.382000	18.60	9.9	46	27.4	AV	N
2.170000	14.40	9.9	46	31.6	AV	N
12.322000	11.00	10.4	50	39.0	AV	N
14.350000	13.10	10.5	50	36.9	AV	N

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16823250801AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16823250801AP03

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

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