

FCC TEST REPORT

Product Name: Xiaomi Soundbar
Trade Mark: XIAOMI
Model No.: MDZ-34-DB
Report Number: 24051811563EMC-1
Test Standards: FCC 47 CFR Part 15 Subpart B
FCC ID: 2AIMR-MDZ-34-DB
Test Result: PASS
Date of Issue: July 31, 2024

Prepared for:

Beijing Xiaomi Electronics Co., Ltd
Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing
Economic and Technological Development Zone, Beijing 100176
China

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Version

Version No.	Date	Description
V1.0	July 31, 2024	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Beijing Xiaomi Electronics Co., Ltd
Address of Applicant:	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing 100176 China
Manufacturer:	Beijing Xiaomi Electronics Co., Ltd
Address of Manufacturer:	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing 100176 China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Xiaomi Soundbar
Model No.:	MDZ-34-DB
Trade Mark:	XIAOMI
DUT Stage:	Identical Prototype
Rated Voltage:	100-240V~ 50/60Hz 0.6A 26W
Classification of digital devices:	Class B
Highest Internal Frequency:	2480 MHz
Software Version:	V0.0.2.0 (Provided by the customer)
Hardware Version:	SM2201E_Main_PCB_Ver:D (Provided by the customer)
Sample Received Date:	May 17, 2024
Sample Tested Date:	May 26, 2024 to May 26, 2024

Remark:

The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.2.2 Description of Accessories

Cable(1)	
Connector:	S/PDIF Cable
Cable Type:	Unshielded without ferrite
Length:	1.2 Meter

Cable(2)	
Connector:	Power cord
Cable Type:	Unshielded without ferrite
Length:	1.2 Meter

1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Tablet	HUAWEI	JDN2-W09	UPK9X20B03003100	UnionTrust
DVD	GIEC	BDP-G4305	UTTIL-EN373	UnionTrust

2) Support Cable

Cable No.	Connector	Length(Meter)	Supplied by
Aux Cable	Aux	1.0	UnionTrust
Optical Cable	Optical	1.0	UnionTrust

1.4 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.5 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.6 DEVIATION FROM STANDARDS

None.

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1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.9 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	± 3.2 dB
2	Conducted emission 150kHz-30MHz	± 2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.6 dB
5	Radiated emission 1GHz-18GHz	± 4.4 dB
6	Radiated emission 18GHz-40GHz	± 4.6 dB

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart B Test Cases			
Test Item	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15.107	ANSI C63.4-2014	PASS
Radiated Emission	FCC 47 CFR Part 15.109	ANSI C63.4-2014	PASS



3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024
☐	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	30-Oct-2023	29-Oct-2024
☒	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	1-Apr-2024	31-Mar-2025
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	1-Apr-2024	31-Mar-2025
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	30-Oct-2023	29-Oct-2024
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	30-Oct-2023	29-Oct-2024
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESR7	101181	27-Oct-2023	26-Oct-2024
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	27-Oct-2023	26-Oct-2024
☒	LISN	R&S	ESH2-Z5	860014/024	27-Oct-2023	26-Oct-2024
☒	LISN	ETS-Lindgren	3816/2SH	00201088	27-Oct-2023	26-Oct-2024
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	1. 120V~60 Hz 2. 240V~50 Hz	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

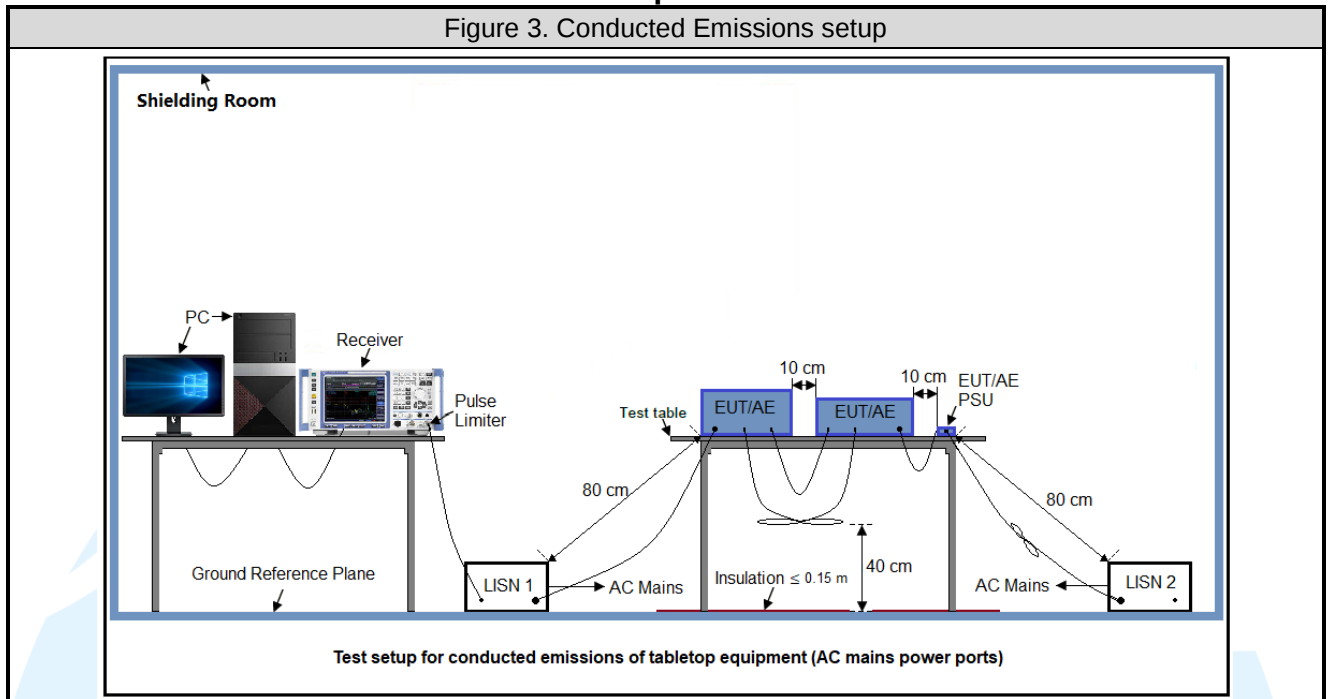
Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Radiated Emission	21.3	54.5	100.2	S202405173447-ZJB12/13	Jackson Wu
Conducted Emission	22.4	67.0	100.2		Linson Xie

4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	Test Mode 1: Charging from 120 Vac + BT playing Test Mode 2: Charging from 120 Vac + Aux In playing Test Mode 3: Charging from 120 Vac + Optical playing Test Mode 4: Charging from 120 Vac + SPDIF playing Test Mode 5: Charging from 240 Vac + Worse from mode 1~4
Conducted Emission	Test Mode 1: Charging from 120 Vac + BT playing Test Mode 2: Charging from 120 Vac + Aux In playing Test Mode 3: Charging from 120 Vac + Optical playing Test Mode 4: Charging from 120 Vac + SPDIF playing Test Mode 5: Charging from 240 Vac + Worse from mode 1~4
Remark: The above test modes in boldface were the worst cases, only the test data of these modes were reported.	

4.3.2 For Conducted Emissions test setup

Figure 3. Conducted Emissions setup



4.4 SYSTEM TEST CONFIGURATION

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic (according to KDB 896810 D02 SDoC FAQ v01r01) of the highest fundamental frequency or to 40 GHz, whichever is lower.

5. REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
3	KDB 174176 D01 Line Conducted FAQ v01r01	AC power-line conducted emission frequency asked questions
4	KDB 896810 D02 SDoC FAQ v01r02	Supplier's Declaration of Conformity frequency asked questions

6. EMC REQUIREMENTS SPECIFICATION

6.1 RADIATED EMISSION

Test Requirement: FCC 47 CFR Part 15.109

Test Method: ANSI C63.4-2014

Receiver Setup:

Frequency: (f) (MHz)	Detector type	Measurement receiver bandwidth	
		RBW	VBW
$30 \leq f \leq 1\,000$	Quasi Peak	120 kHz	300 kHz
$f \geq 1000$	Peak	1 MHz	3 MHz
	Average	1 MHz	3 MHz

Measured frequency range

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Limits:

Limits for Class B devices

Frequency (MHz)	limits at 3m (dB μ V/m)		
	QP Detector	PK Detector	AV Detector
30-88	40.0	--	--
88-216	43.5	--	--
216-960	46.0	--	--
960 to 1000	54.0	--	--
Above 1000	--	74.0	54.0

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.3.1 for details.

Test Procedures:

1. From 30 MHz to 1GHz test procedure as below:

- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

2. Above 1GHz test procedure as below:

- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both

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horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

- 3) For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Equipment Used: Refer to section 3 for details.

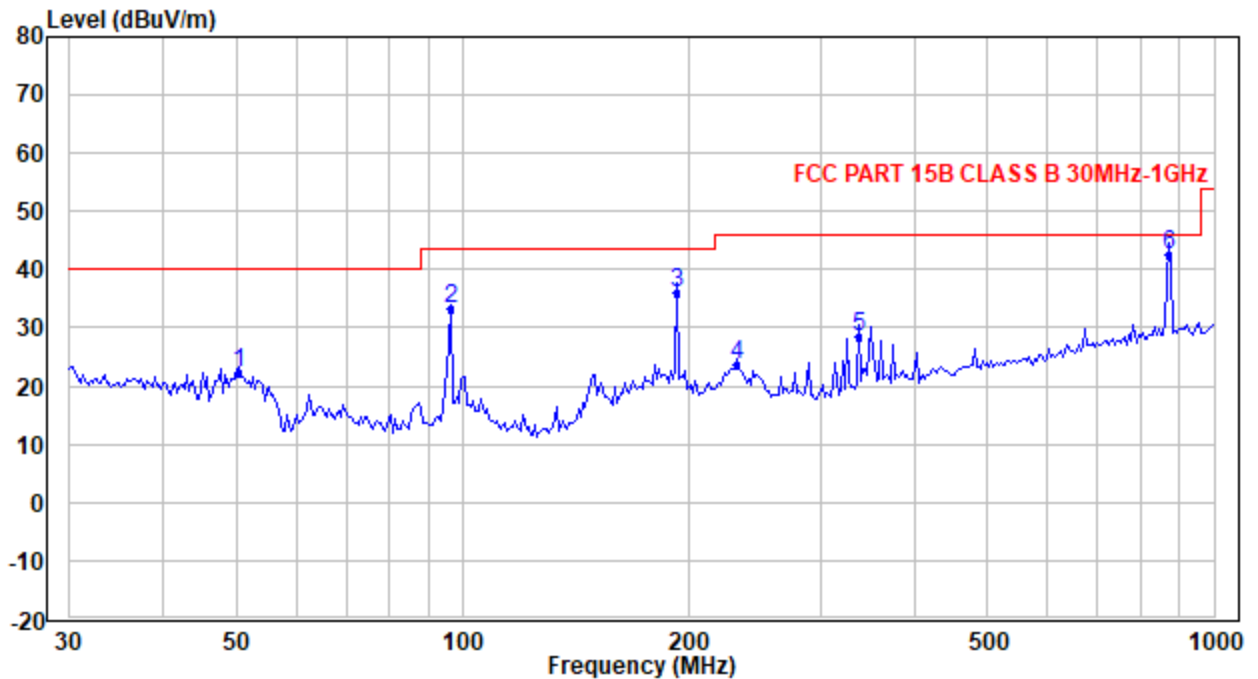
Test Result: Pass

The worst measurement data as follows:

Below 1GHz (Quasi Peak):

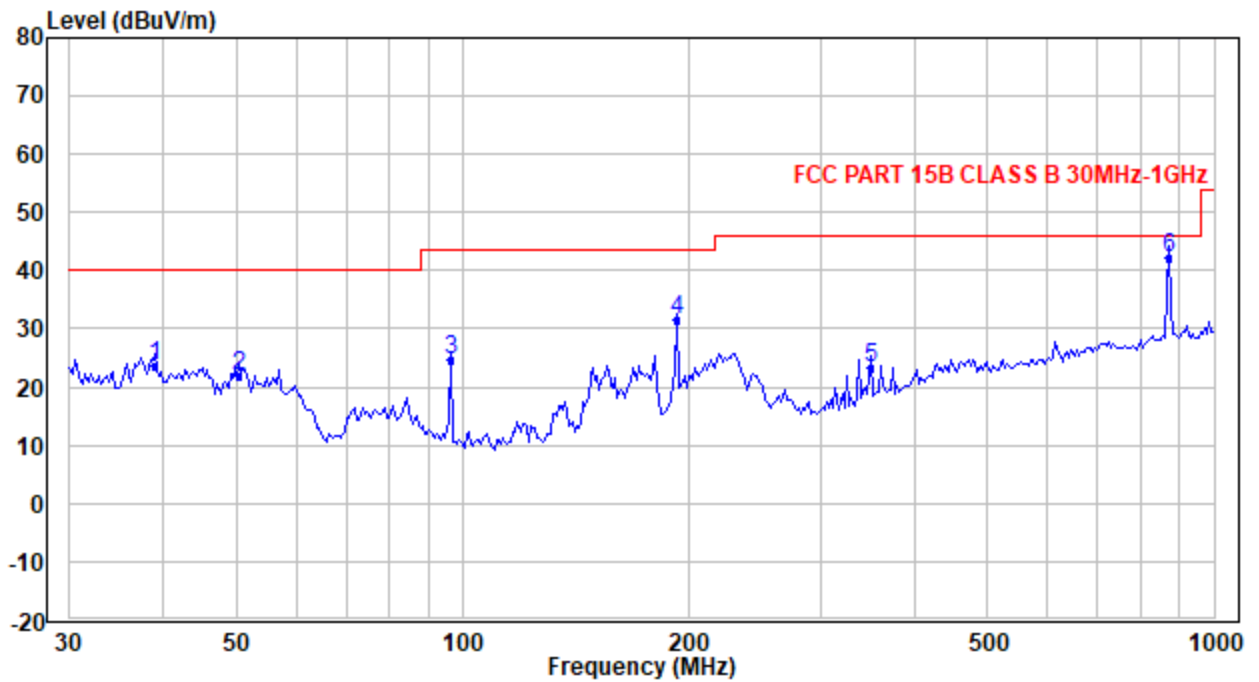
Test Mode1

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	50.461	35.89	-13.75	22.14	40.00	-17.86	QP
2	96.323	49.12	-16.00	33.12	43.50	-10.38	QP
3	193.137	47.24	-11.38	35.86	43.50	-7.64	QP
4	231.853	34.45	-10.73	23.72	46.00	-22.28	QP
5	336.482	35.99	-7.47	28.52	46.00	-17.48	QP
6	868.886	38.32	4.21	42.53	46.00	-3.47	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.908	31.52	-7.89	23.63	40.00	-16.37	QP
2	50.461	35.77	-13.75	22.02	40.00	-17.98	QP
3	96.323	40.71	-16.00	24.71	43.50	-18.79	QP
4	193.137	42.82	-11.38	31.44	43.50	-12.06	QP
5	348.514	30.23	-6.84	23.39	46.00	-22.61	QP
6	868.886	37.89	4.21	42.10	46.00	-3.90	QP

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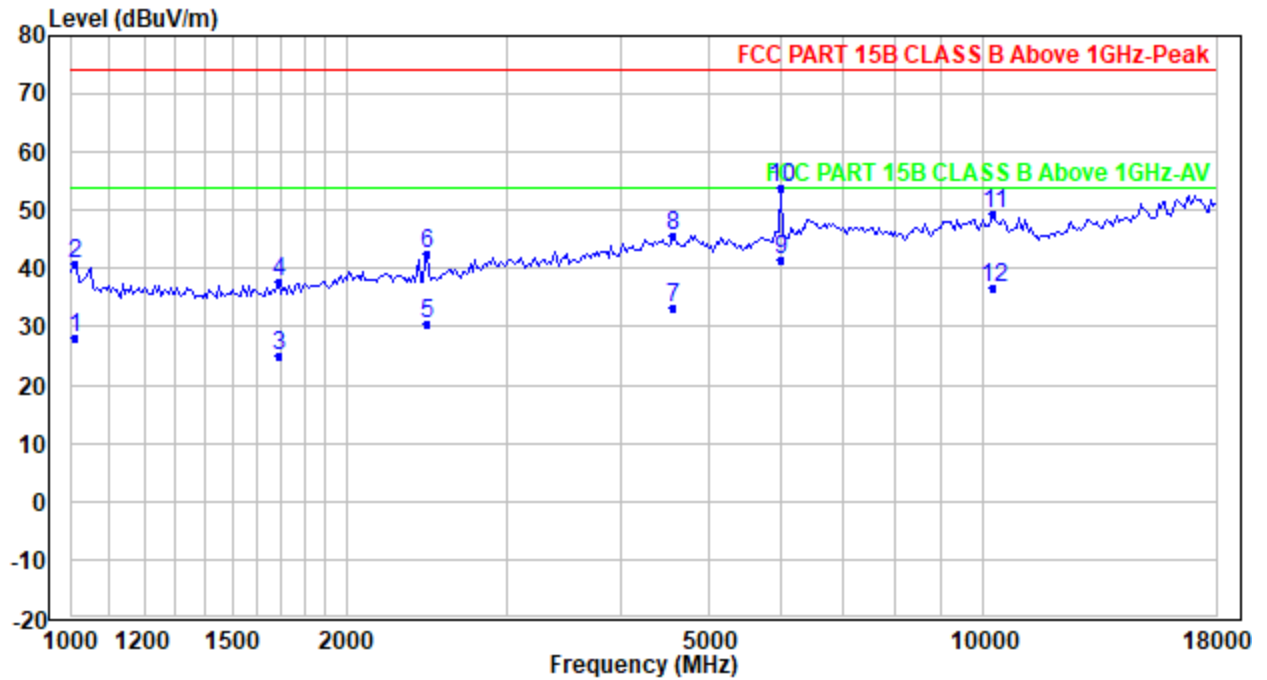
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Above 1GHz (Peak & Average)
Test Mode1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1005.809	40.86	-12.92	27.94	54.00	-26.06	Average
2	1005.809	53.74	-12.92	40.82	74.00	-33.18	Peak
3	1684.232	36.88	-11.78	25.10	54.00	-28.90	Average
4	1684.232	49.50	-11.78	37.72	74.00	-36.28	Peak
5	2454.225	38.72	-8.32	30.40	54.00	-23.60	Average
6	2454.225	50.98	-8.32	42.66	74.00	-31.34	Peak
7	4561.219	35.52	-2.17	33.35	54.00	-20.65	Average
8	4561.219	47.87	-2.17	45.70	74.00	-28.30	Peak
9	5988.431	41.27	0.29	41.56	54.00	-12.44	Average
10	5988.431	53.58	0.29	53.87	74.00	-20.13	Peak
11	10262.700	45.96	3.36	49.32	74.00	-24.68	Peak
12	10262.700	33.18	3.36	36.54	54.00	-17.46	Average

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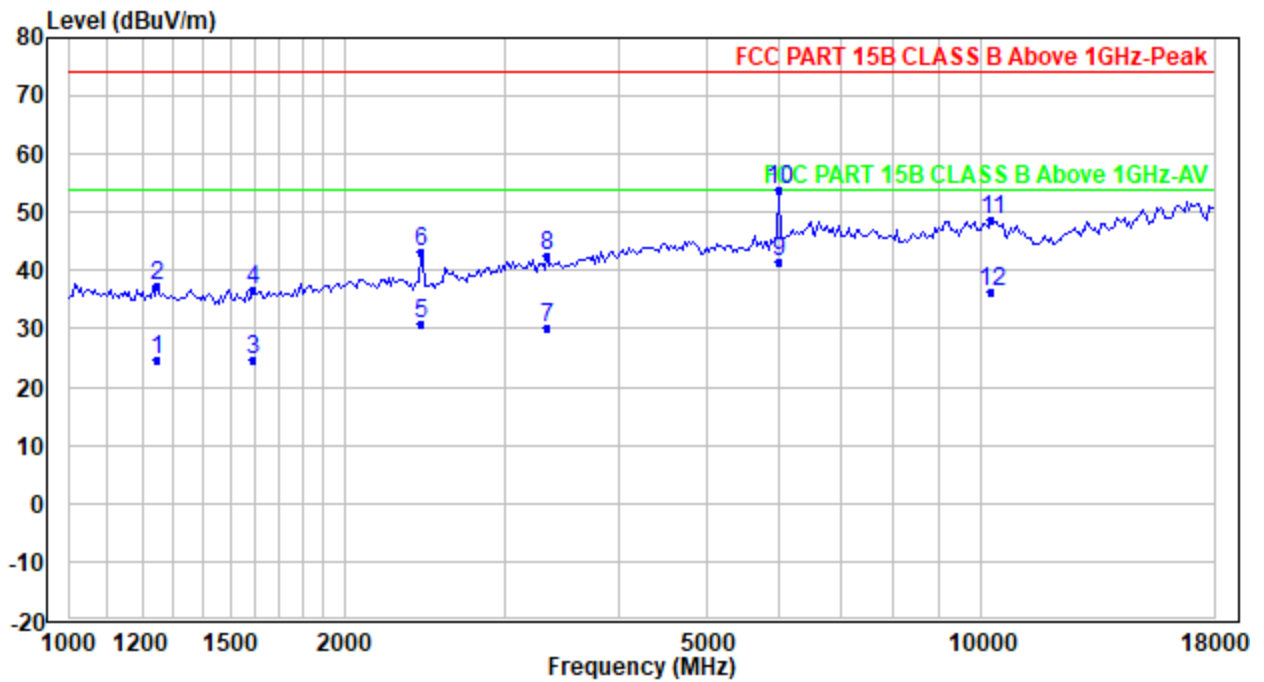
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1246.212	37.75	-13.00	24.75	54.00	-29.25	Average
2	1246.212	50.25	-13.00	37.25	74.00	-36.75	Peak
3	1589.447	37.26	-12.46	24.80	54.00	-29.20	Average
4	1589.447	49.33	-12.46	36.87	74.00	-37.13	Peak
5	2425.957	39.17	-8.40	30.77	54.00	-23.23	Average
6	2425.957	51.79	-8.40	43.39	74.00	-30.61	Peak
7	3336.106	35.69	-5.51	30.18	54.00	-23.82	Average
8	3336.106	47.93	-5.51	42.42	74.00	-31.58	Peak
9	5988.431	41.17	0.29	41.46	54.00	-12.54	Average
10	5988.431	53.57	0.29	53.86	74.00	-20.14	Peak
11	10262.700	45.42	3.36	48.78	74.00	-25.22	Peak
12	10262.700	33.07	3.36	36.43	54.00	-17.57	Average

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.
5. For Radiated Emission above 18GHz, there was not any unwanted emission detected.

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6.2 CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15.107

Test Method: ANSI C63.4-2014

Limits:

Limits for Class B devices

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.3.2 for details.

Test Procedures:

- 1) The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- 2) The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

Equipment Used: Refer to section 3 for details.

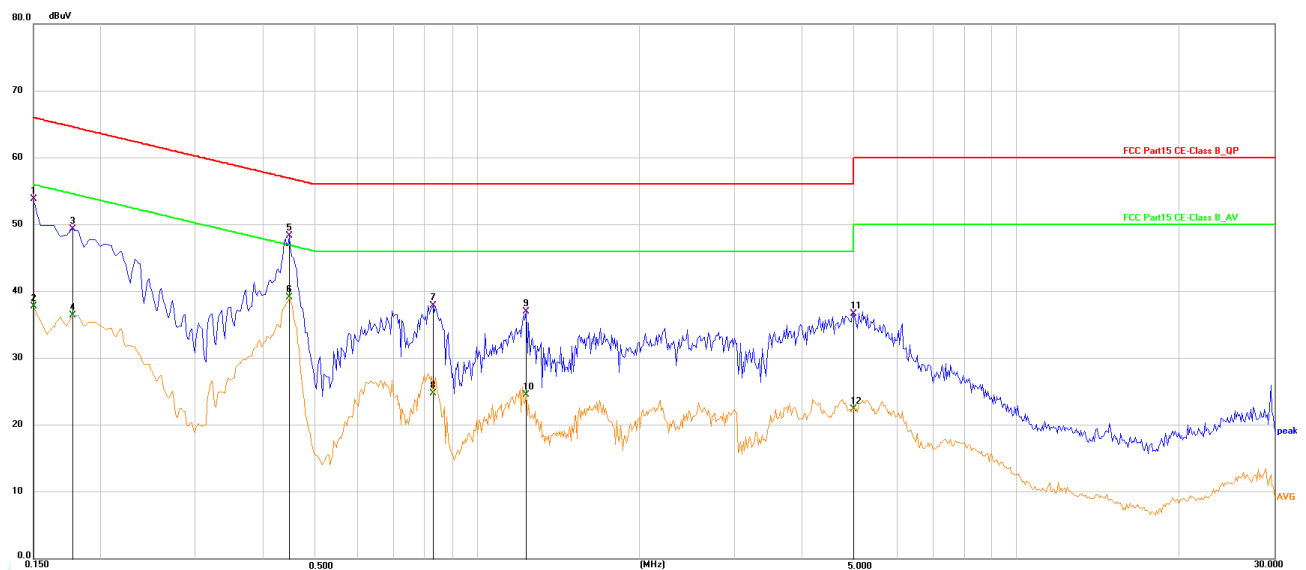
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

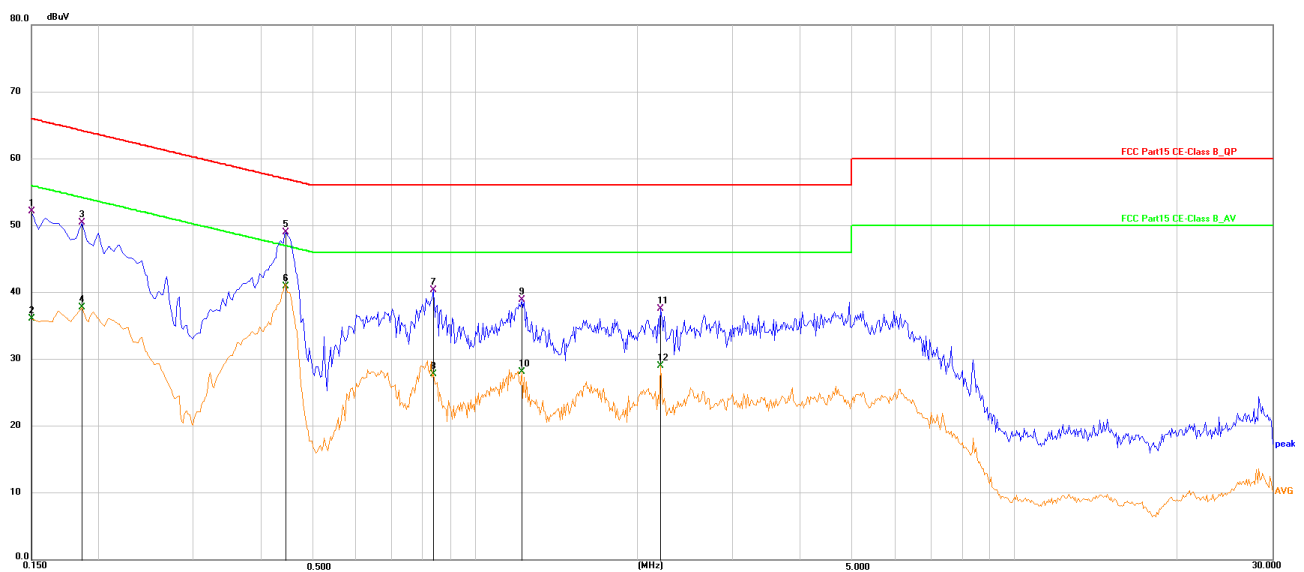
Test Mode2

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	43.60	10.20	53.80	66.00	-12.20	QP
2	0.1500	27.59	10.20	37.79	56.00	-18.21	AVG
3	0.1777	39.14	10.18	49.32	64.59	-15.27	QP
4	0.1777	26.18	10.18	36.36	54.59	-18.23	AVG
5	0.4468	38.16	10.15	48.31	56.93	-8.62	QP
6	0.4468	28.94	10.15	39.09	46.93	-7.84	AVG
7	0.8261	27.55	10.27	37.82	56.00	-18.18	QP
8	0.8261	14.48	10.27	24.75	46.00	-21.25	AVG
9	1.2291	26.60	10.32	36.92	56.00	-19.08	QP
10	1.2291	14.24	10.32	24.56	46.00	-21.44	AVG
11	4.9782	26.40	10.23	36.63	56.00	-19.37	QP
12	4.9782	12.13	10.23	22.36	46.00	-23.64	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	41.98	10.19	52.17	66.00	-13.83	QP
2	0.1500	25.88	10.19	36.07	56.00	-19.93	AVG
3	0.1860	40.33	10.08	50.41	64.21	-13.80	QP
4	0.1860	27.69	10.08	37.77	54.21	-16.44	AVG
5	0.4425	38.72	10.22	48.94	57.01	-8.07	QP
6	0.4425	30.67	10.22	40.89	47.01	-6.12	AVG
7	0.8385	30.10	10.21	40.31	56.00	-15.69	QP
8	0.8385	17.55	10.21	27.76	46.00	-18.24	AVG
9	1.2164	28.68	10.20	38.88	56.00	-17.12	QP
10	1.2164	17.86	10.20	28.06	46.00	-17.94	AVG
11	2.2065	27.23	10.32	37.55	56.00	-18.45	QP
12	2.2065	18.69	10.32	29.01	46.00	-16.99	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

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UTTR-EMC-FCCPART15B-V1.1

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

***** End of Report *****

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