Prüfbericht-Nr.: *Test report No.:*	**60361866 002**	**Auftrags-Nr.:** *Order No.:*	168125922	Seite 1 von 22 *Page 1 of 22*
Kunden-Referenz-Nr.: *Client reference No.:*	N/A	**Auftragsdatum:** *Order date:*	01.08.2019	
Auftraggeber: *Client:*	**MESHBOX FOUNDATION PTE.LTD** 152 BEACH ROAD #14-02 GATEWAYEAST SINGAPORE(189721)			
Prüfgegenstand: *Test item:*	MeshBox Tesla			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	MTes-J1900-W5 (Trademark: MeshBox)			
Auftrags-Inhalt: *Order content:*	FCC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.407 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: *Date of receipt:*	19.02.2020	Please refer to photo documents		
Prüfmuster-Nr.: *Test sample No.:*	A001064741-001 to 006			
Prüfzeitraum: *Testing period:*	16.03.2020 - 14.04.2020			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
Bell Hu			Winnie Hou		
06.08.2020	Bell Hu / Project Engineer		06.08.2020	Winnie Hou / Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

FCC ID: 2AV8M-MBTES01202001

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:* Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

V04

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY
RESULT: Pass

5.1.4 26DB BANDWIDTH, 6DB BANDWIDTH AND 99% BANDWIDTH
RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.6 CONDUCTED EMISSION ON AC MAINS
RESULT: Pass

5.1.7 RADIATED EMISSION
RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Wi-Fi operation for U-NII-1 band

Appendix C: Test Results of Wi-Fi operation for U-NII-3 band

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China
FCC Accreditation Designation No.: CN1260
ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing (TS8997)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
Signal Analyzer	R&S	FSV 40	101441	20.08.2020
OSP	R&S	OSP 150	101017	17.12.2020
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V10.50.10)	N/A	N/A
Power Meter	R&S	NRP2	107105	17.12.2020
Wideband Power Sensor	R&S	NRP-Z81	105350	17.12.2020
Shielding Room 8#	Albatross	SR8	APC17151-SR8	23.07.2020
Unwanted Emission Testing (TS9975)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
Signal Analyzer	R&S	FSV 40	101439	21.08.2020
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.08.2020
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
Amplifier	R&S	SCU-18F	180070	20.08.2020
Amplifier	R&S	SCU40A	100475	20.09.2020
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	02.09.2020
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	02.09.2020
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2020
Test software	R&S	EMC32 (V10.50.40)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	06.07.2020

Conducted Emission on AC Mains				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cali. until**
EMI Test Receiver	R&S	ESR3	102428	03.09.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

Radiated Emission (3m chamber)				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cali. until**
3m SAC	ETS	SAC3	CT001632-Q1362	23.08.2021
EMI Test Receiver	R&S	ESR7	102111	04.01.2021
Horn Antenna	R&S	HF907	102706	01.09.2020
Preamplifier	FIT	SCU-18F	180077	19.08.2020
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	19.08.2020
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	12.09.2020
Switching Controller Interface	R&S	OSP 120	102039	N/A
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Radio Frequency	±1 x 10-7
RF Power (conducted)	±2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	±6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	±3.70 dB / ±3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	±4.52 dB
Radiated Emission (3m SAC), above 1000MHz	±4.37 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. File for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People’s Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a MeshBox Tesla, which supports Wi-Fi 802.11 a/b/g/n/ac wireless technologies. The EUT supports the following functions: Wireless access in the 2.4GHz band or 5GHz band

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	MeshBox Tesla
Type Designation	MTes-J1900-W5
Trade Mark	MeshBox
FCC ID	2AV8M-MBTES01202001
Operating Voltage	DC 12V@6A input via AC/DC adapter
Testing Voltage	AC 120V@60Hz
Operational enviroment	Indoor use
Technical Specification of Wi-Fi 802.11 a/n/ac	
Operating Frequency	U-NII-1 Band: 5180-5240 MHz U-NII-3 Band: 5745-5825 MHz
Type of Modulation	OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Channel Number:	U-NII-1 Band: 4 channels for 20MHz bandwidth 2 channels for 40MHz bandwidth 1 channels for 80MHz bandwidth U-NII-3 Band: 5 channels for 20MHz bandwidth 2 channels for 40MHz bandwidth 1 channels for 80MHz bandwidth
Channel Separation	5 MHz
Smart Antenna System	
Antenna Type	External Antenna
Number of Antenna	4
Max Antenna Gain	7 dBi for both 2.4GHz and 5GHz bands
Beamforming	Not supported
Operating modes	1. SISO and MIMO mode supported. 2. All the four RF ports have identical RF characteristics. In case of SISO mode, only results for the worst case (Ant 2) listed. 3. MIMO mode, array Gain considered as per KDB662911D01 section F).

Table 3: RF Channel and Frequency of Wi-Fi 802.11 a/n/ac

U-NII-1 Band					
RF Channel	20MHz Frequency (MHz)	RF Channel	40MHz Frequency (MHz)	RF Channel	80MHz Frequency (MHz)
36	**5180.00**	**38**	**5190.00**	**42**	**5210.00**
40	5200.00	**46**	**5230.00**	/	/
44	**5220.00**	/	/	/	/
48	**5240.00**	/	/	/	/

U-NII-3 Band					
RF Channel	20MHz Frequency (MHz)	RF Channel	40MHz Frequency (MHz)	RF Channel	80MHz Frequency (MHz)
149	**5745.00**	**151**	**5755.00**	**155**	**5775.00**
153	5765.00	**159**	**5795.00**	/	/
157	**5785.00**	/	/	/	/
161	5805.00	/	/	/	/
165	**5825.00**	/	/	/	/

Test Channel:
CH36, CH44, CH48, CH149, CH157, CH165 for 20MHz;
CH38, CH46, CH151, CH159 for 40MHz
CH 42, CH155 for 80MHz

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Wi-Fi 802.11 a/n/ac wireless transmitting mode
   1. Low channel
   2. Middle channel
   3. High channel

B. On, Wi-Fi 802.11 a/n/ac connecting mode

C. On, Normal operation mode

D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- FCC/IC Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

Parameters of Test Software Setting

Mode	Channel No.	Frequency (MHz)	Data rate	Software Power setting	
				MIMO	SISO
802.11a	036	5180	6M	18.0	23.0
802.11a	044	5220	6M	19.0	24.0
802.11a	048	5240	6M	20.0	24.0
802.11n HT20	036	5180	MCS 0	18.0	22.0
802.11n HT20	044	5220	MCS 0	19.0	23.0
802.11n HT20	048	5240	MCS 0	20.0	23.0
802.11n HT40	038	5190	MCS 0	17.0	21.5
802.11n HT40	046	5230	MCS 0	18.5	22.5
802.11ac VHT20	036	5180	MCS 0	18.0	22.0
802.11ac VHT20	044	5220	MCS 0	19.0	23.0
802.11ac VHT20	048	5240	MCS 0	20.0	23.0
802.11ac VHT40	038	5190	MCS 0	17.0	21.5
802.11ac VHT40	046	5230	MCS 0	18.5	22.5
802.11ac VHT80	042	5210	MCS 0	17.0	21.0
802.11a	149	5745	6M	14.0	19.0
802.11a	157	5785	6M	15.0	20.0
802.11a	165	5825	6M	15.0	19.0
802.11n HT20	149	5745	MCS 0	14.0	18.0
802.11n HT20	157	5785	MCS 0	15.0	19.0
802.11n HT20	165	5825	MCS 0	15.0	19.0
802.11n HT40	151	5755	MCS 0	14.0	17.5
802.11n HT40	159	5795	MCS 0	14.0	17.5
802.11ac VHT20	149	5745	MCS 0	14.0	18.0
802.11ac VHT20	157	5785	MCS 0	15.0	19.0
802.11ac VHT20	165	5825	MCS 0	15.0	19.0
802.11ac VHT40	151	5755	MCS 0	14.0	17.5
802.11ac VHT40	159	5795	MCS 0	14.0	18.0
802.11ac VHT80	155	5775	MCS 0	13.0	17.0

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

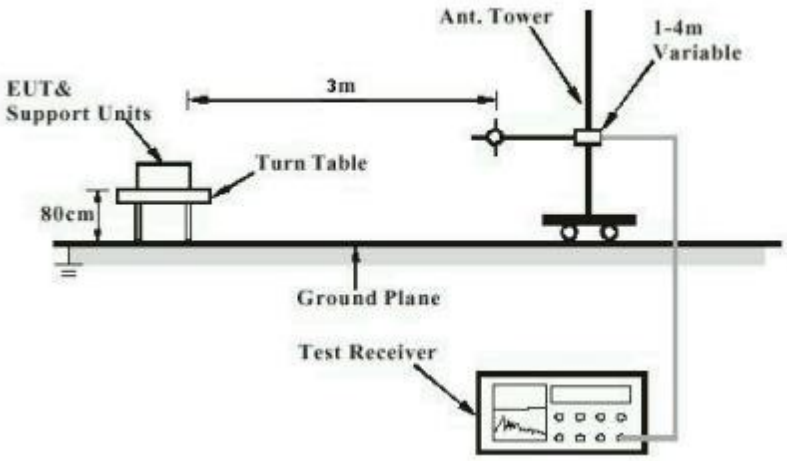


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

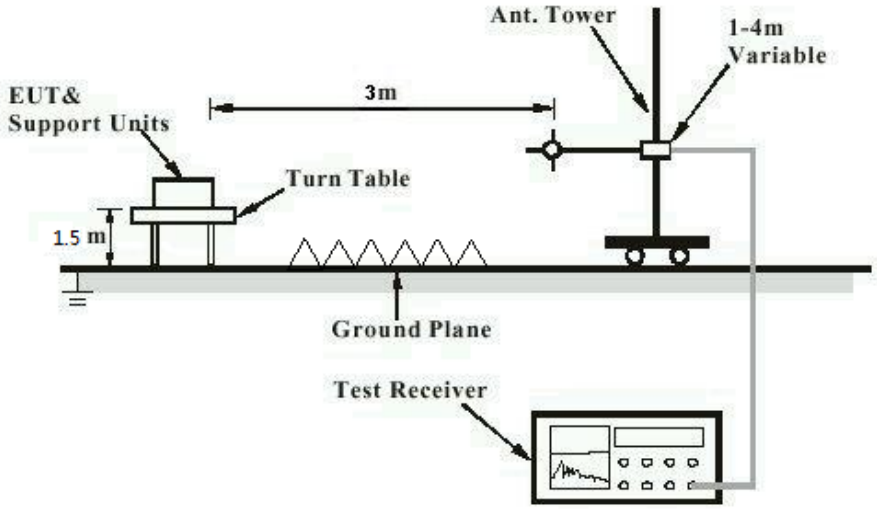


Diagram of Measurement Configuration for Mains Conduction Measurement

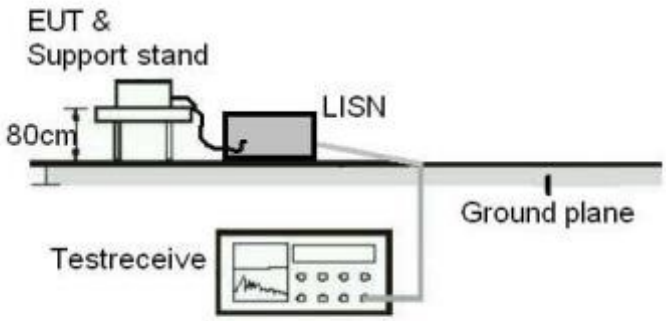
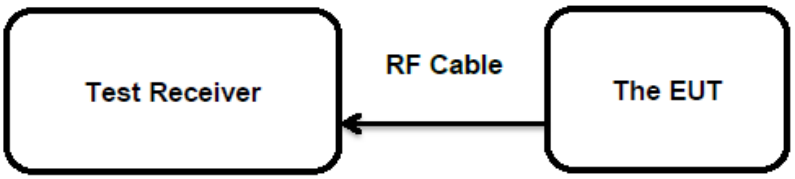


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has four external antennas with a special non-standard connectors and the maximum gain 7 dBi.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.407(a)(1)&(2)&(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	U-NII-1: < 1Watt (30 dBm)
		U-NII-3: < 1Watt (30 dBm)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	08.04.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Conducted Output Power, Wi-Fi 802.11 a/n/ac

Test Mode	Frequency Range (MHz)	Test Channel (MHz)	Measured Avg. Power (SISO)		Measured Avg. Power (MIMO)		Limit (dBm)
			(dBm)	(W)	(dBm)	(W)	
802.11a	5150-5250	5180	20.94	0.1242	21.15	0.1303	29
		5220	20.71	0.1178	20.59	0.1146	
		5240	20.56	0.1138	21.03	0.1268	
	5725-5850	5745	20.93	0.1239	19.84	0.0964	
		5785	21.26	0.1337	20.16	0.1038	
		5825	20.35	0.1084	20.12	0.1028	
802.11n (HT20)	5150-5250	5180	19.62	0.0916	20.77	0.1194	
		5220	19.44	0.0879	20.29	0.1069	
		5240	19.14	0.0820	20.75	0.1189	
	5725-5850	5745	19.55	0.0902	19.54	0.0899	
		5785	19.91	0.0979	19.89	0.0975	
		5825	20.04	0.1009	19.91	0.0979	
802.11n (HT40)	5150-5250	5190	19.17	0.0826	19.88	0.0973	
		5230	18.94	0.0783	18.97	0.0789	
	5725-5850	5755	19.36	0.0863	19.88	0.0973	
		5795	19.00	0.0794	19.02	0.0798	
802.11ac (HT20)	5150-5250	5180	19.58	0.0908	20.81	0.1205	
		5220	19.40	0.0871	20.32	0.1076	
		5240	19.15	0.0822	20.78	0.1197	
	5725-5850	5745	19.51	0.0893	19.85	0.0966	
		5785	19.91	0.0979	20.13	0.1030	
		5825	20.08	0.1019	20.05	0.1012	
802.11ac (HT40)	5150-5250	5190	19.18	0.0828	19.78	0.0951	
		5230	18.96	0.0787	19.66	0.0925	
	5725-5850	5755	19.31	0.0853	19.65	0.0923	
		5795	19.16	0.0824	19.09	0.0811	
802.11ac (HT80)	5150-5250	5210	18.16	0.0655	19.02	0.0798	
	5725-5850	5775	18.66	0.0735	18.69	0.0740	
Maximum Measured Value			21.26	0.1337	21.15	0.1303	-

Note:
1) The cable loss taken into account in results.
2) Antenna gain(G) 7 dBi.
3) It is an indoor access point.

5.1.3 Conducted Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.407(a)
Basic standard	:	ANSI C63.10: 2013 KDB 789033 D02 v01r03
Limits	:	17dBm/MHz for U-NII-1 30dBm/500kHz for U-NII-3
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B & C.

5.1.4 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.407(e)
Basic standard	:	ANSI C63.10: 2013 KDB 789033 D02 v01r03
Limits	:	No requirement for U-NII-1 band at least 500kHz for U-NII-3 band
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B & C.

5.1.5 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.407(b) & FCC part 15.209
Basic standard	:	ANSI C63.10: 2013
		KDB 789033 D02 v01r03
Limits	:	FCC Part 15.209(a)
		FCC Part 15.407(b)(7)
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	23 ℃
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

Remark:
Testing was carried out within frequency range 9kHz to the tenth harmonics. All configurations tested for both MIMO and SISO, only worst-case mode data reported.

For the measurement records, refer to the appendix B & C.

5.1.6 Conducted Emission on AC Mains

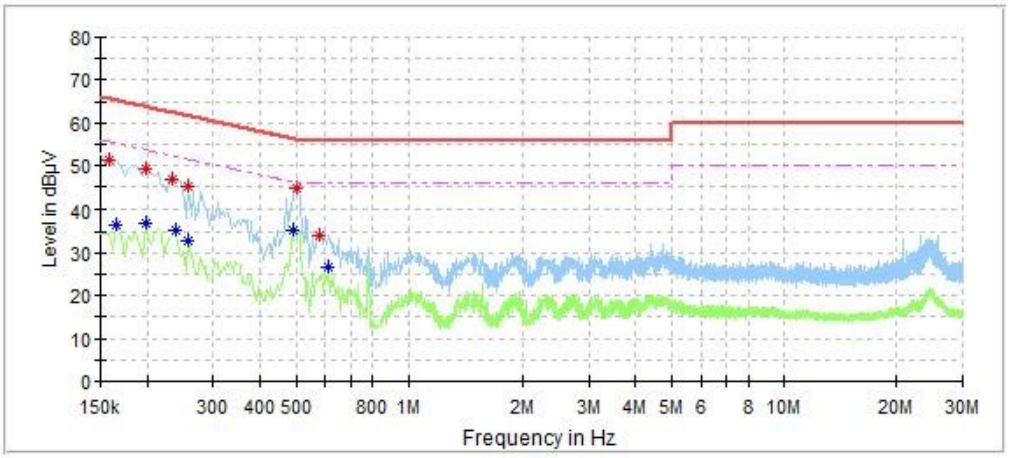
RESULT: **Pass**

Test Specification

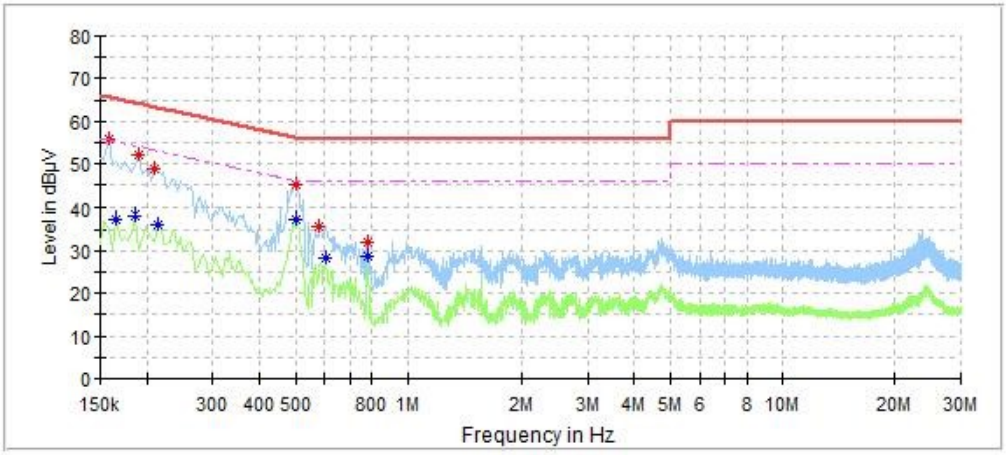
Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	B, C
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	51.08	---	65.57	14.49	L1	9.6
0.166000	---	36.40	55.16	18.76	L1	9.6
0.198000	---	37.06	53.69	16.64	L1	9.6
0.198000	49.36	---	63.69	14.33	L1	9.6
0.234000	46.83	---	62.31	15.48	L1	9.6
0.238000	---	35.23	52.17	16.94	L1	9.6
0.258000	---	32.77	51.50	18.73	L1	9.6
0.258000	45.21	---	61.50	16.28	L1	9.6
0.494000	---	35.33	46.10	10.77	L1	9.7
0.500000	44.81	---	56.00	11.19	L1	9.7
0.580000	34.16	---	56.00	21.84	L1	9.7
0.612000	---	26.59	46.00	19.41	L1	9.7



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	55.76	---	65.57	9.80	N	9.6
0.166000	---	37.27	55.16	17.89	N	9.6
0.186000	---	38.11	54.21	16.11	N	9.6
0.190000	52.11	---	64.04	11.93	N	9.6
0.210000	48.80	---	63.21	14.40	N	9.6
0.214000	---	36.04	53.05	17.01	N	9.6
0.500000	---	37.22	46.00	8.78	N	9.7
0.500000	45.28	---	56.00	10.72	N	9.7
0.580000	35.76	---	56.00	20.24	N	9.7
0.604000	---	28.12	46.00	17.88	N	9.7
0.780000	---	28.73	46.00	17.27	N	9.7
0.780000	31.99	---	56.00	24.01	N	9.7

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

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