



RADIO TEST REPORT

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Applicant	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Manufacturer	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Equipment under Test	:	True Wireless Bluetooth Headphone Amplifier
Model No.	:	F5151U, F2501U, F2502U, F2503U, F2504U, F2505U, F2506U, F2507U, F2508U, F2509U, F2500U
FCC ID	:	R56-FC2001
Test Standard(s)	:	47 CFR Part 15 Subpart C, ANSI C63.10-2020+Cor.1-2023
Report No.	:	DDT-RE25103113-2E08
Issue Date	:	2026/06/23
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:
47 CFR Part 15 Subpart C,
ANSI C63.10-2020+Cor.1-2023

We Declare:
The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25103113-2E08		
Date of Receipt:	2026/01/04	Date of Test:	2026/01/04 - 2026/06/12

Created: Chen Ziqin	Reviewed: Bobo Chen	Approved: Ella Gong
		
2026/06/09	2026/06/23	2026/06/23

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/06/23	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	20dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.215	/	Pass
2	Frequency Stability	47 CFR Part 15 15.225	/	Pass
3	Radiated Emission	47 CFR Part 15 15.209, 47 CFR Part 15 15.225	/	Pass
4	Power Line Conducted Emissions	47 CFR Part 15 15.207	/	Pass
5	Antenna Requirement	47 CFR Part 15 15.203	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: True Wireless Bluetooth Headphone Amplifier
Model Number	: F5151U, F2501U, F2502U, F2503U, F2504U, F2505U, F2506U, F2507U, F2508U, F2509U, F2500U
Difference of model number	: Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model F5151U
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from USB cable or DC 3.8V built-in battery
Antenna Type	: WPC Antenna

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
TX	/	13.56

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

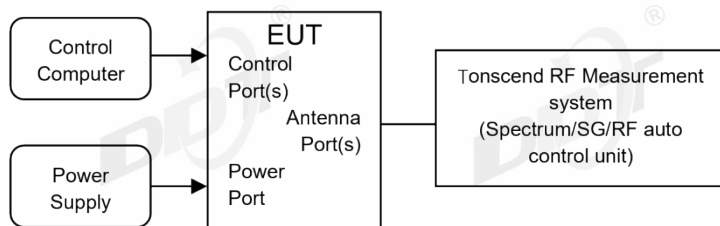
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9\text{ kHz} \leq f < 7\text{ GHz}$);
	3.31 dB ($7\text{ GHz} \leq f < 40\text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 2#)				
SPECTRUM ANALYZER	R&S	FSU26	201124	2026/07/06
Power Sensor	R&S	NRP-Z22	101254	2026/07/06
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 20 dB Bandwidth & 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 2 times and 5 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold

(3) Allow the trace to stabilize, measure the 20 dB bandwidth of signal.

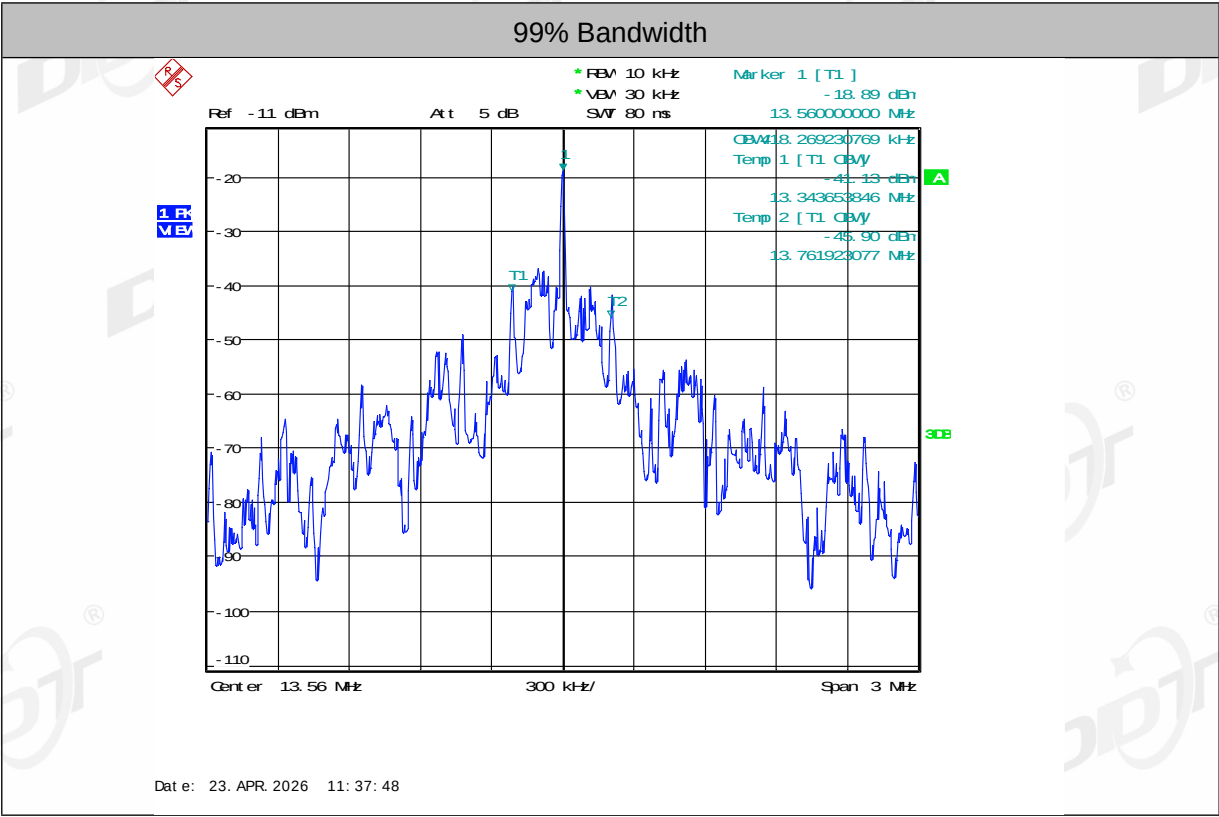
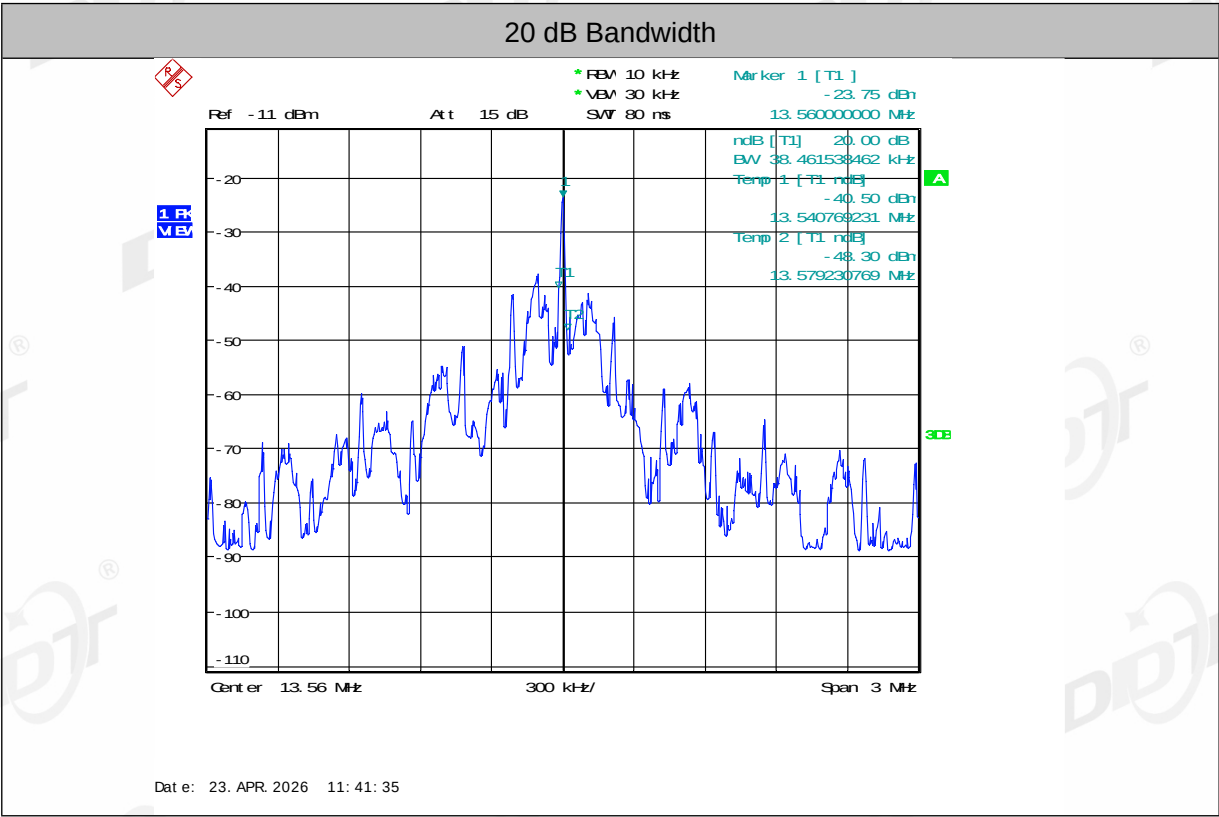
(4) Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

4.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement System 2#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2026/1/4 - 2026/6/12
Test Power Supply:	Battery	Sample Number:	S25103113-005

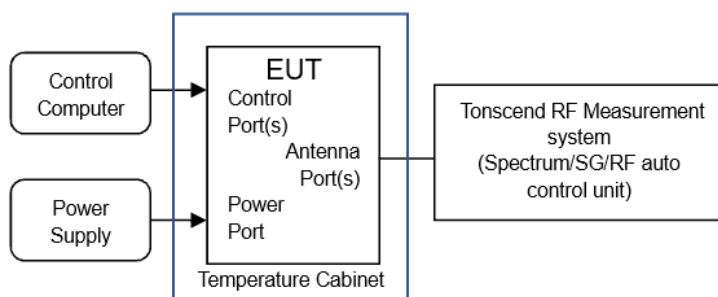
Mode	Frequency (MHz)	20 dB bandwidth Result (kHz)	99% bandwidth Result (kHz)	Verdict
ASK	13.56	38.462	418.269	Pass

4.5. Test graphs



5. Frequency Tolerance

5.1. Block diagram of test setup



5.2. Limit

As contained in § 15.225 the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply Voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 kHz.

Video BW: 10 kHz.

Span: 1 MHz.

Detector: Peak.

Trace Mode: Max Hold.

(2) When the trace is complete, find the peak value of the power envelope and record the frequency.

5.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement System 2#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2026/1/4 - 2026/6/12
Test Power Supply:	Battery	Sample Number:	S25103113-005

Mode	Condition		Result			Limit
	Temperature [°C]	Voltage [V]	Measured [MHz]	Tolerance [kHz]	Tolerance [ppm]	ppm
Carrier Tx Mode	NT	NV	13.560	0	0	±100
	-20	NV	13.560	0	0	±100
	-10	NV	13.560	0	0	±100
	0	NV	13.560	0	0	±100
	10	NV	13.560	0	0	±100
	30	NV	13.560	0	0	±100
	40	NV	13.560	0	0	±100
	NT	DC 4.18V	13.560	0	0	±100
	NT	DC 3.42V	13.560	0	0	±100
Note: NT: 20 °C, NV: 3.8V						

6. Antenna Requirements

6.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Result

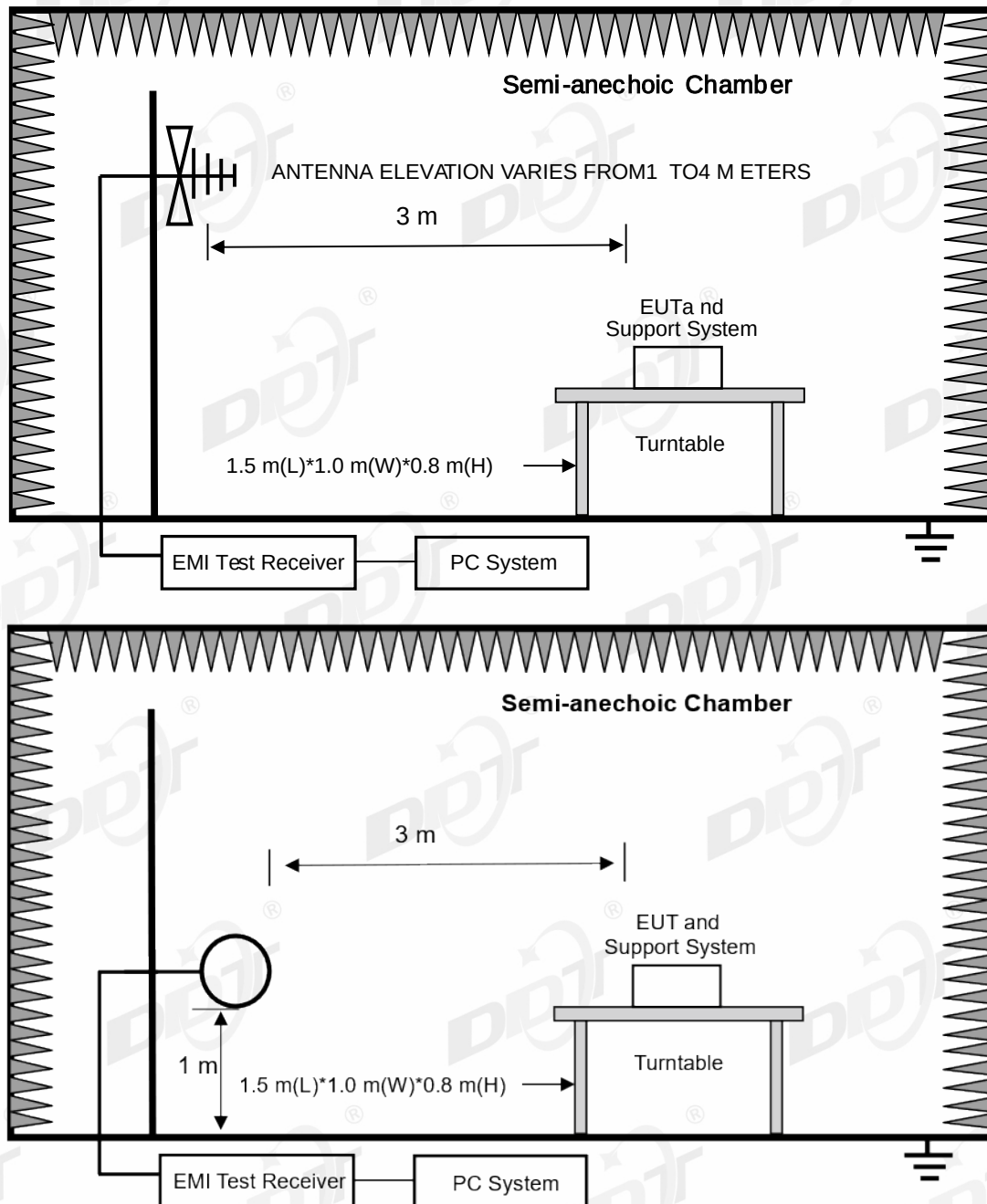
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

7. Radiated Emission

7.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2027/02/27
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-5M	DDT-ZC03800	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2027/02/27
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2027/02/27
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27

7.2. Block diagram of test setup



7.3. Limits

Operation within the band 13.110-14.010 MHz as contained in §15.225:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions

shall not exceed 106 microvolts/meter at
30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		($\mu\text{V}/\text{m}$)	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{KHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{KHz})$	$87.6-20\log(\text{F})$
1.705 ~ 13.110	30	30	29.54
13.110 ~ 13.410	30	106	40.51
13.410 ~ 13.553	30	334	50.47
13.553 ~ 13.567	30	15848	84.00
13.567 ~ 13.710	30	334	50.47
13.710 ~ 14.010	30	106	40.51
14.010 ~ 30	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\log(300\text{m}/3\text{m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 80$$

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\log(30\text{m}/3\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40$$

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT $\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	3	$147.6-20\log(\text{F})$
0.490 ~ 1.705	3	$127.6-20\log(\text{F})$
1.705 ~ 13.110	3	69.54
13.110 ~ 13.410	3	80.51
13.410 ~ 13.553	3	90.47
13.553 ~ 13.567	3	124.00
13.567 ~ 13.710	3	90.47
13.710 ~ 14.010	3	80.51
14.010 ~ 30	3	69.54
30 ~ 88	3	40.00
88 ~ 216	3	43.50

216 ~960	3	46.00
960 ~ 1000	3	54.00

7.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

7.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

(7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported

7.6. Test result

PASS. (See below detailed test result)

7.7. Test data

TR-4-E-009 Radiated Emission Test Result

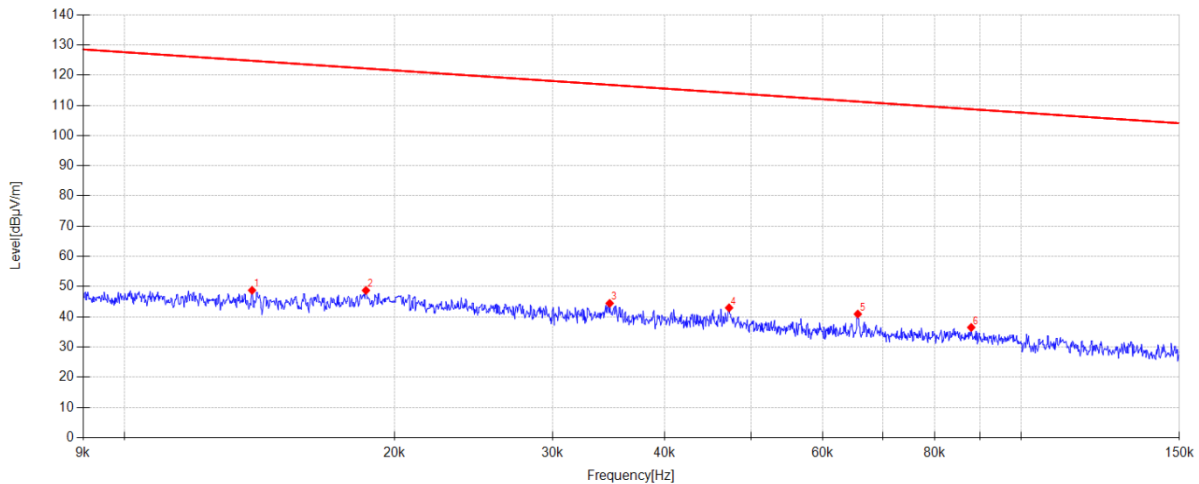
Test Date: 2026-05-09 **Tested By:** Li Xiongbín

Test Mode: 13.56MHz TX Mode **Power Supply:** Battery

Condition: Temp:23.8°C;Humi:39.2% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25103113-2E\FCC Below 1G 13.56M\20260509-034838_V

Memo: Sample Number:S25103113-005

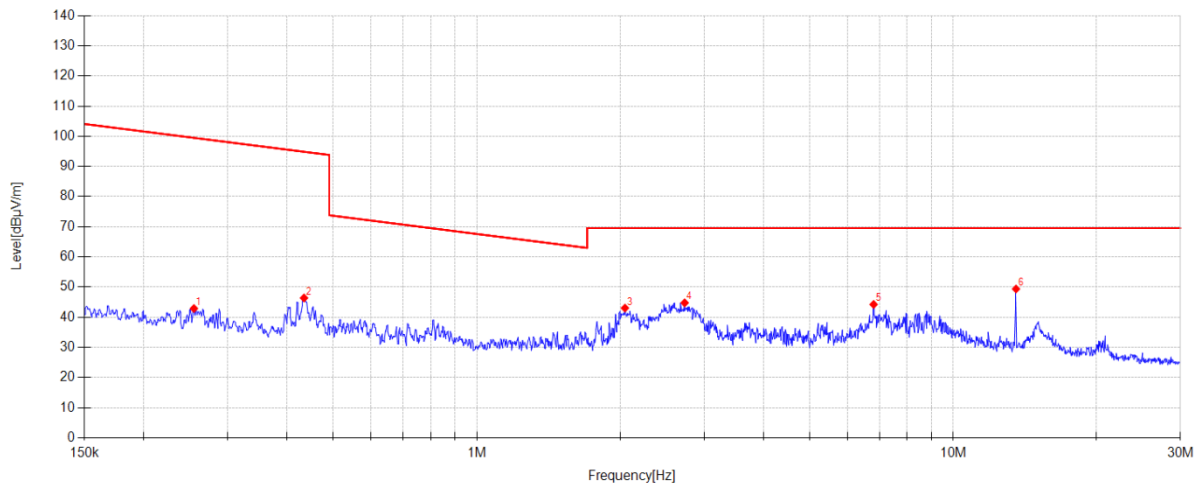


Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.014	57.94	20.22	3.09	-32.50	48.75	124.75	76.00	PK	Vertical
2	0.019	57.84	20.25	3.14	-32.51	48.72	122.21	73.49	PK	Vertical
3	0.035	53.46	20.28	3.25	-32.53	44.46	116.78	72.32	PK	Vertical
4	0.047	51.96	20.21	3.33	-32.54	42.96	114.12	71.16	PK	Vertical
5	0.066	49.88	20.12	3.47	-32.56	40.91	111.25	70.34	PK	Vertical
6	0.088	45.21	20.28	3.57	-32.59	36.47	108.72	72.25	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.
4. Measured at antenna position coaxial and coplanar, only record the worst case of Coaxial

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-09**Tested By:** Li Xiongbin**Test Mode:** 13.56MHz TX Mode**Power Supply:** Battery**Condition:** Temp:23.8°C;Humi:39.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2025 report date\Q25103113-2E\FCC Below 1G 13.56M\20260509-035246_V**Memo:** Sample Number:S25103113-005

Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.255	51.45	20.27	3.76	-32.60	42.88	99.48	56.60	PK	Vertical
2	0.434	54.99	20.22	3.76	-32.60	46.37	94.86	48.49	PK	Vertical
3	2.047	51.66	20.20	3.74	-32.57	43.03	69.54	26.51	PK	Vertical
4	2.732	53.43	20.13	3.74	-32.54	44.76	69.54	24.78	PK	Vertical
5	6.810	53.00	19.94	3.70	-32.41	44.23	69.54	25.31	PK	Vertical
6	13.556	57.98	19.93	3.75	-32.30	49.36	69.54	20.18	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.
4. Measured at antenna position coaxial and coplanar, only record the worst case of Coaxial.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-09

Tested By:

Li Xiongbin

Test Mode:

13.56MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.8°C;Humi:39.2%

Test Site:

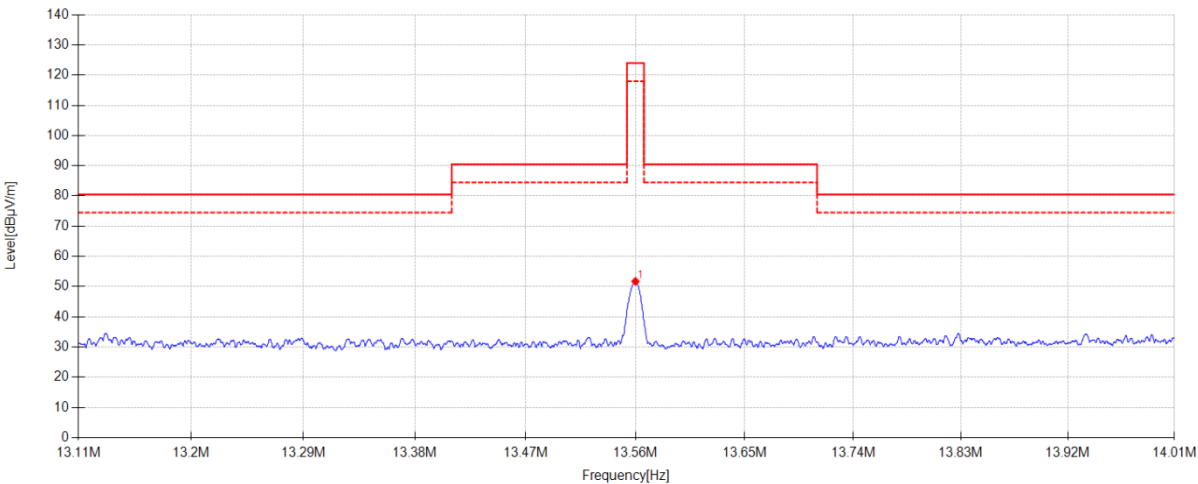
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103113-2E\FCC Below 1G 13.56M\20260509-040535_V

Memo:

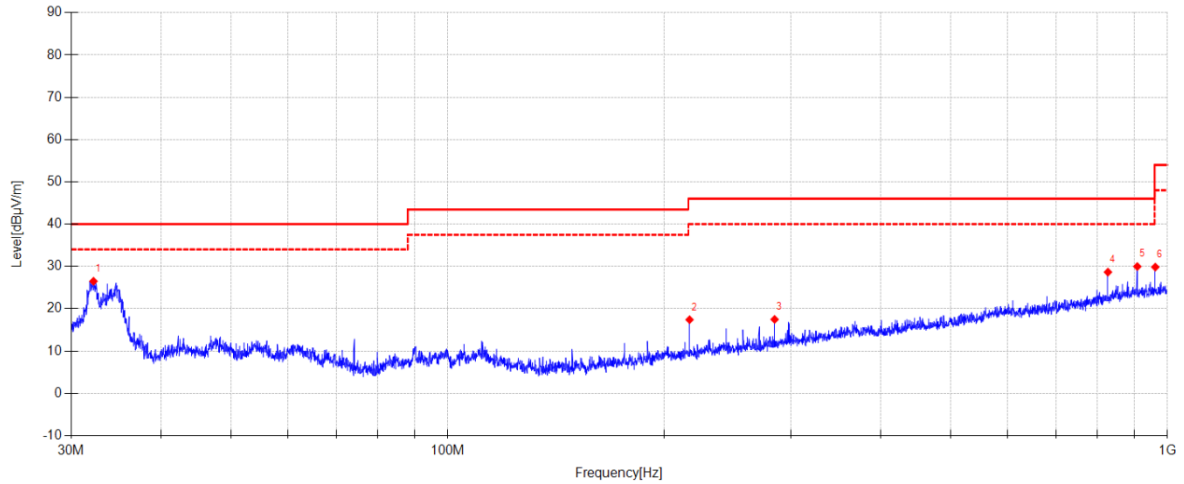
Sample Number:S25103113-005



Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	13.560	60.35	19.93	3.75	-32.30	51.73	124.00	72.27	PK	Vertical

- Note:
- 1. Level = Reading + Cable Loss + Antenna Factor + AMP
 - 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 - 3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.
 - 4. Measured at antenna position coaxial and coplanar, only record the worst case of Coaxial.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-08**Tested By:** Cao Jie**Test Mode:** TX 13.56MHz Mode**Power Supply:** Battery**Condition:** Temp:23.5°C;Humi:58.6%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2026 test data\feiao\FCC BELOW 1G 0608\5**Memo:****Suspected Data List**

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.202	44.09	10.90	3.81	-32.30	26.50	40.00	13.50	PK	Horizontal
2	216.84 ₉	33.60	11.26	4.95	-32.40	17.41	46.00	28.59	PK	Horizontal
3	284.64 ₉	31.55	13.10	5.22	-32.40	17.47	46.00	28.53	PK	Horizontal
4	826.94 ₅	33.47	20.54	6.99	-32.34	28.66	46.00	17.34	PK	Horizontal
5	908.40 ₉	32.60	22.10	7.13	-31.85	29.98	46.00	16.02	PK	Horizontal
6	962.17 ₀	31.84	22.27	7.27	-31.53	29.85	54.00	24.15	PK	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-08

Tested By: Cao Jie

Test Mode: TX 13.56MHz Mode

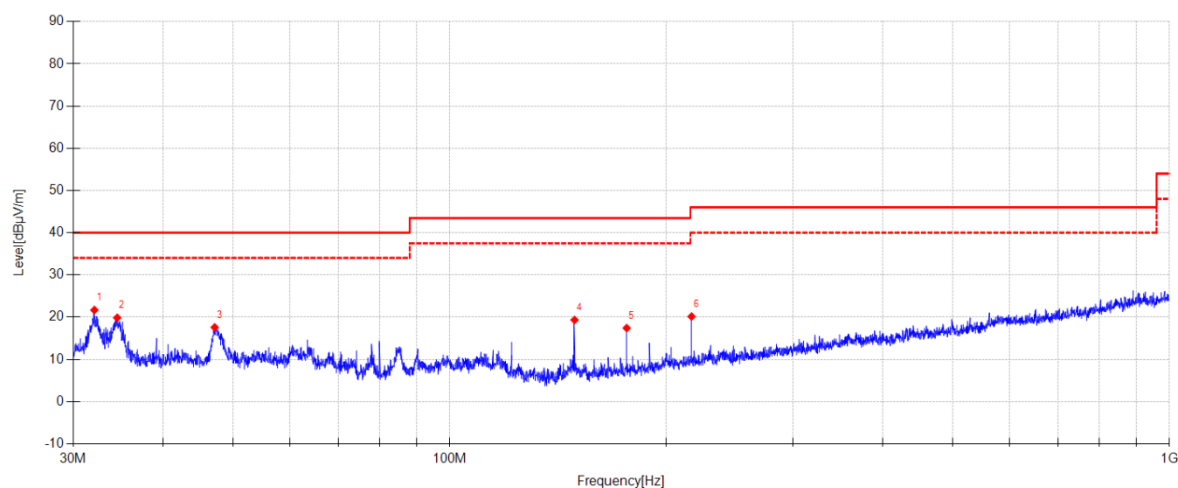
Power Supply: Battery

Condition: Temp:23.5°C;Humi:58.6%

Test Site: DDT 3# Chamber

File Path: d:\ts\2026 test data\feiao\FCC BELOW 1G 0608\6

Memo:



Suspected Data List

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.089	39.28	10.90	3.81	-32.30	21.69	40.00	18.31	PK	Vertical
2	34.516	37.01	11.30	3.84	-32.30	19.85	40.00	20.15	PK	Vertical
3	47.156	32.55	13.37	3.96	-32.30	17.58	40.00	22.42	PK	Vertical
4	149.12 4	38.61	8.50	4.58	-32.35	19.34	43.50	24.16	PK	Vertical
5	176.20 6	35.35	9.70	4.74	-32.38	17.41	43.50	26.09	PK	Vertical
6	216.84 9	36.34	11.26	4.95	-32.40	20.15	46.00	25.85	PK	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

8. Power Line Conducted Emissions

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI 3	DDT-ZC01972	2027/02/27
Pulse Limiter	R&S	KH43101	DDT-ZC00747	2027/02/27
Coaxial signal signal cable	H&S	RG214-5	DDT-ZC01817	2027/02/27
V-shaped artificial power network	DA ZE	ZN3780C	DDT-ZC01063	2027/02/27
V-shaped artificial power network	DA ZE	ZN3780C	DDT-ZC01062	2027/02/27
EMI Test Software	Audix	e3	DDT-ZC01252	/

8.2. Block diagram of test setup

8.3. Limits

Frequency	Quasi-Peak Level dB(uV)	Average Level dB(uV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

8.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, 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.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

8.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

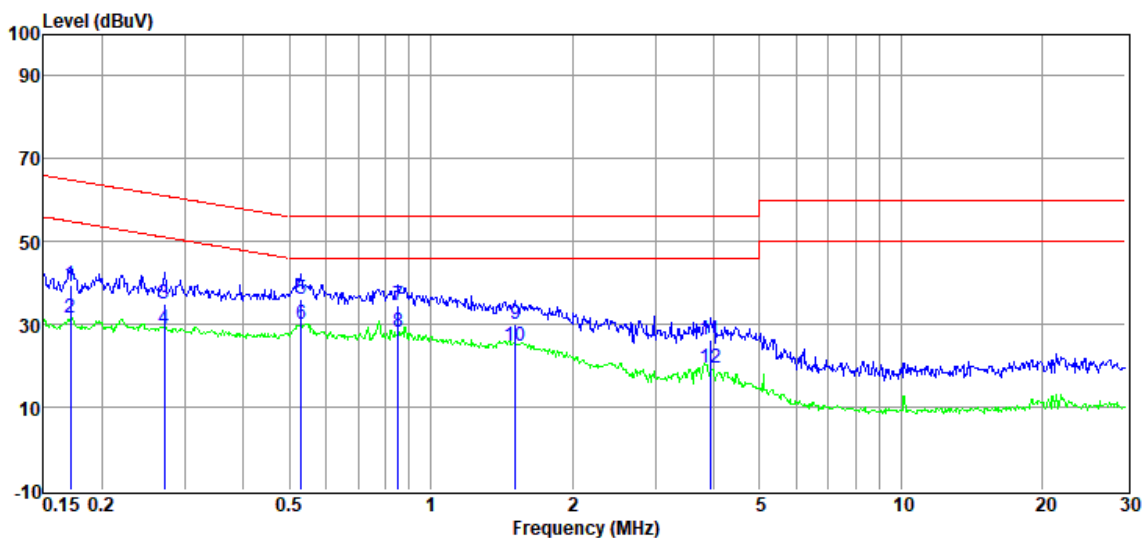
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

8.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2025 report data\Q25103113-2E\0127 CE.EM6
Test Date : 2026-01-27 Tested By : Ling Yisheng
Power Supply : AC 120V/60Hz Test Mode : TX 13.56MHz Mode
Condition : Temp:23.2C,Humi:56.7% LISN : 2025 2# 216/LINE
Memo : S25103113-001

Data: 30



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Margin	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.17	19.78	9.48	0.05	10.20	39.51	64.90	25.39	QP	LINE
2	0.17	11.72	9.48	0.05	10.20	31.45	54.90	23.45	Average	LINE
3	0.27	15.29	9.46	0.07	10.24	35.06	61.07	26.01	QP	LINE
4	0.27	9.33	9.46	0.07	10.24	29.10	51.07	21.97	Average	LINE
5	0.53	16.19	9.49	0.10	10.33	36.11	56.00	19.89	QP	LINE
6	0.53	10.04	9.49	0.10	10.33	29.96	46.00	16.04	Average	LINE
7	0.85	14.58	9.51	0.15	10.38	34.62	56.00	21.38	QP	LINE
8	0.85	8.08	9.51	0.15	10.38	28.12	46.00	17.88	Average	LINE
9	1.51	10.00	9.51	0.20	10.39	30.10	56.00	25.90	QP	LINE
10	1.51	4.67	9.51	0.20	10.39	24.77	46.00	21.23	Average	LINE
11	3.92	6.35	9.53	0.23	10.29	26.40	56.00	29.60	QP	LINE
12	3.92	-0.53	9.53	0.23	10.29	19.52	46.00	26.48	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2025 report data\Q25103113-2E\0127 CE.EM6

Test Date : 2026-01-27

Tested By : Ling Yisheng

Power Supply : AC 120V/60Hz

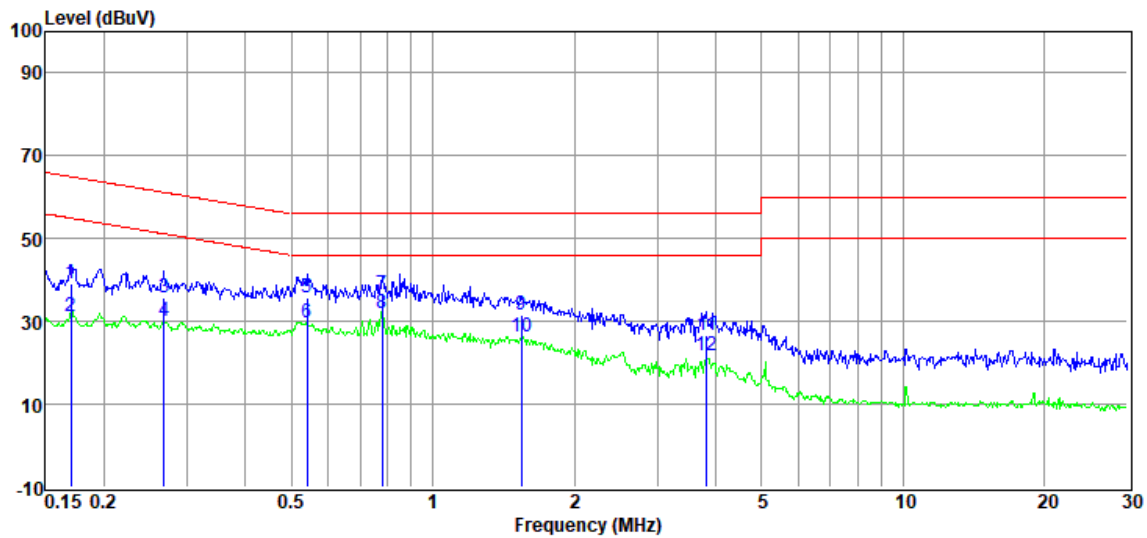
Test Mode : TX 13.56MHz Mode

Condition : Temp:23.2C,Humi:56.7%

LISN : 2025 2# 216/NEUTRAL

Memo : S25103113-001

Data: 32



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Margin	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.17	19.43	9.49	0.05	10.20	39.17	64.94	25.77	QP	NEUTRAL
2	0.17	11.49	9.49	0.05	10.20	31.23	54.94	23.71	Average	NEUTRAL
3	0.27	16.04	9.48	0.07	10.24	35.83	61.16	25.33	QP	NEUTRAL
4	0.27	10.20	9.48	0.07	10.24	29.99	51.16	21.17	Average	NEUTRAL
5	0.54	15.70	9.48	0.11	10.33	35.62	56.00	20.38	QP	NEUTRAL
6	0.54	9.95	9.48	0.11	10.33	29.87	46.00	16.13	Average	NEUTRAL
7	0.78	16.37	9.48	0.14	10.37	36.36	56.00	19.64	QP	NEUTRAL
8	0.78	12.04	9.48	0.14	10.37	32.03	46.00	13.97	Average	NEUTRAL
9	1.54	11.36	9.50	0.20	10.39	31.45	56.00	24.55	QP	NEUTRAL
10	1.54	6.03	9.50	0.20	10.39	26.12	46.00	19.88	Average	NEUTRAL
11	3.82	6.73	9.52	0.23	10.30	26.78	56.00	29.22	QP	NEUTRAL
12	3.82	1.71	9.52	0.23	10.30	21.76	46.00	24.24	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Photos of the EUT

Please refer to DDT-Q25103113-1E appendix I

-----End Report-----