



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Dongguan Jane Eyre Electronic Technology Co., Ltd.

Address: No. 22, Hubin North Road, Qishi Town, Dongguan City, Guangdong Province, China

FCC ID: 2BFMR-JA-003

Product Name: Vibrator

**Standard(s): FCC Part 15B
ANSI C63.4-2014**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2403T75623E-00

Date Of Issue: 2024/5/27

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Title: RF Engineer

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Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403T75623E-00	Original Report	2024/5/27

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Vibrator
EUT Model:	JA-003
Highest Operation Frequency:	2480MHz (Receiving)
Rated Input Voltage:	DC 5V from DC Port or DC 3.7 from battery
Serial Number:	2L8X-1
EUT Received Date:	2024/5/13
EUT Received Status:	Good

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: M1: Charging M2: Operating
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Fangxin	Adapter	FX2U-050200U	AD220930001
XTOUCH	Phone	S40	04069092900015

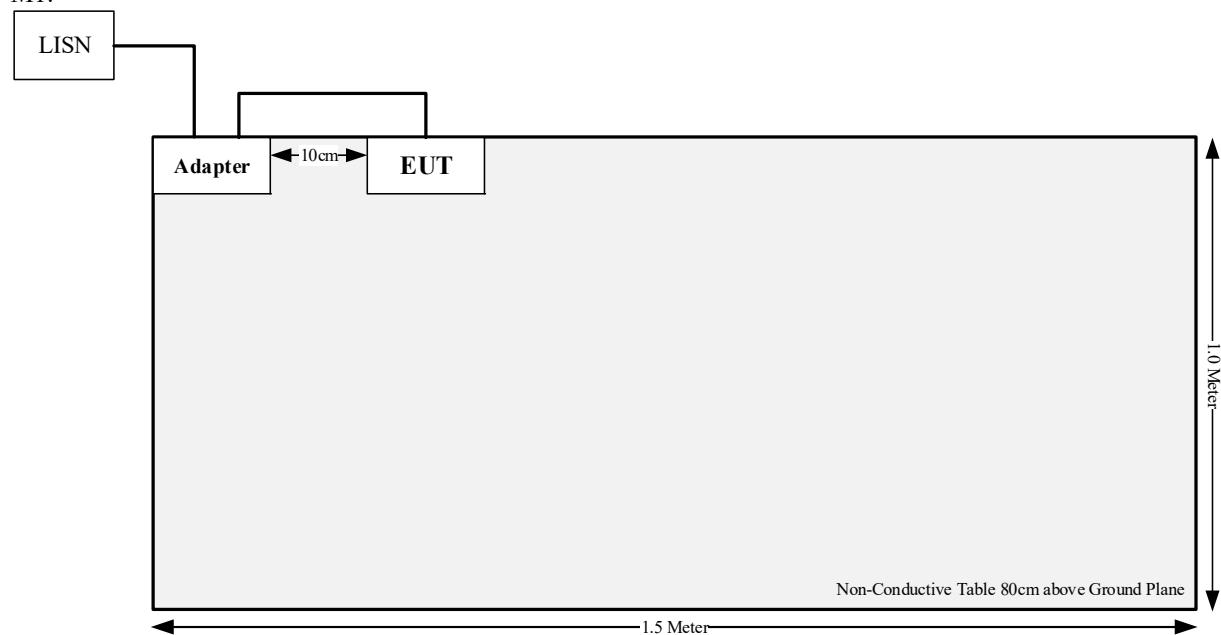
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Charger Cable	No	No	0.8	Adapter	EUT

1.2.4 Block Diagram of Test Setup

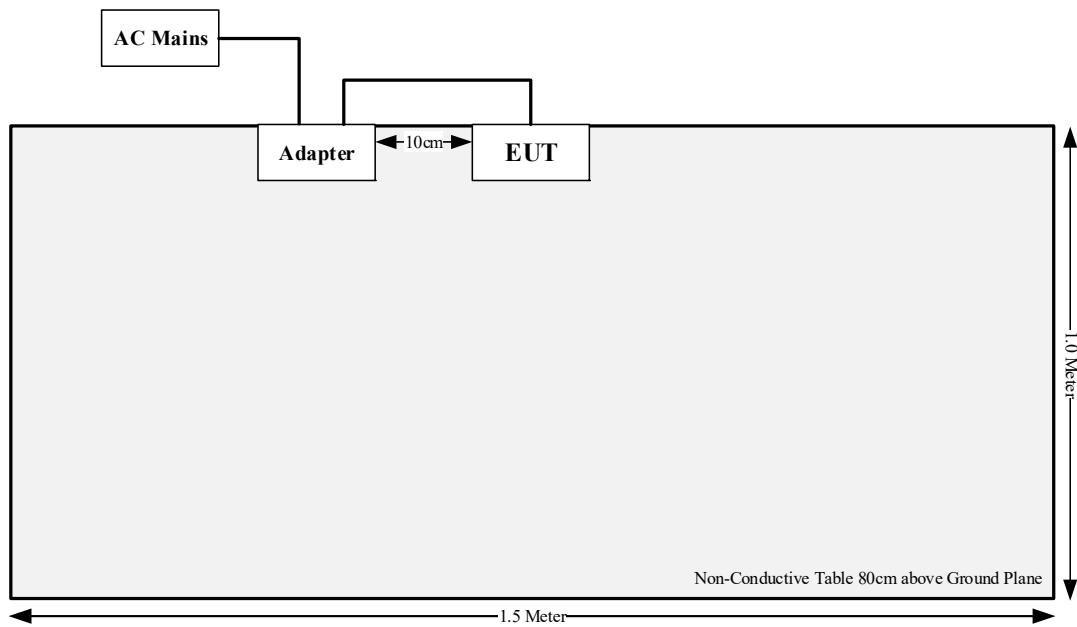
Conducted Emissions:

M1:

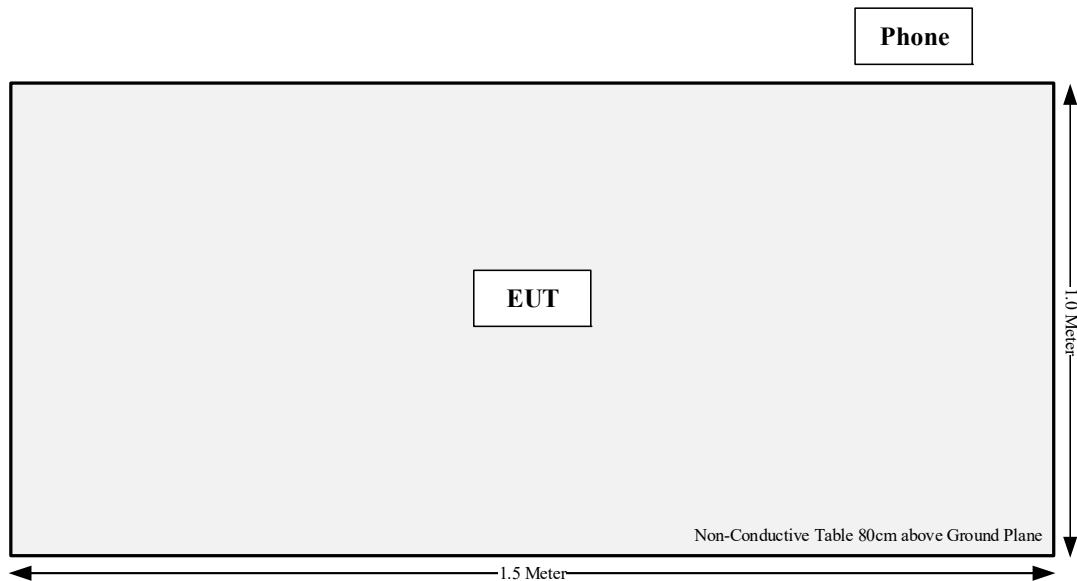


Radiated Emissions:

M1:



M2:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1°C
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

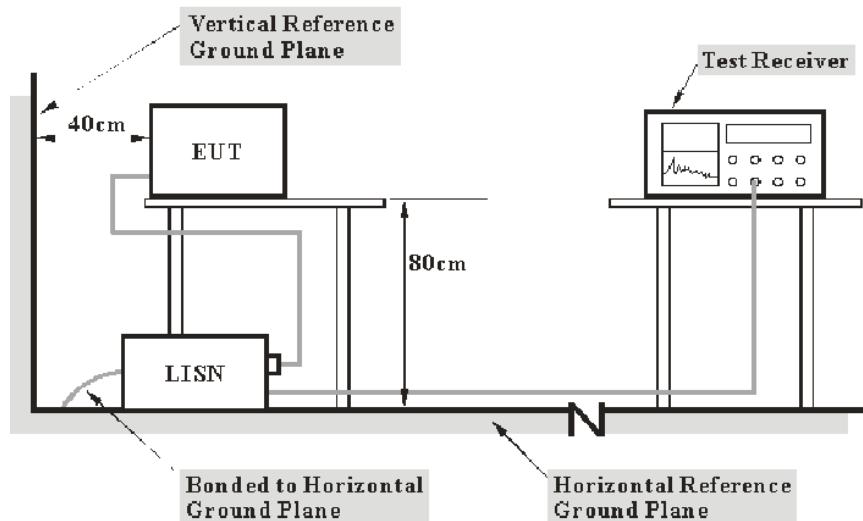
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Conducted Emissions

3.1.1 EUT Setup



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.2 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

All data was recorded in the Quasi-peak and average detection mode.

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

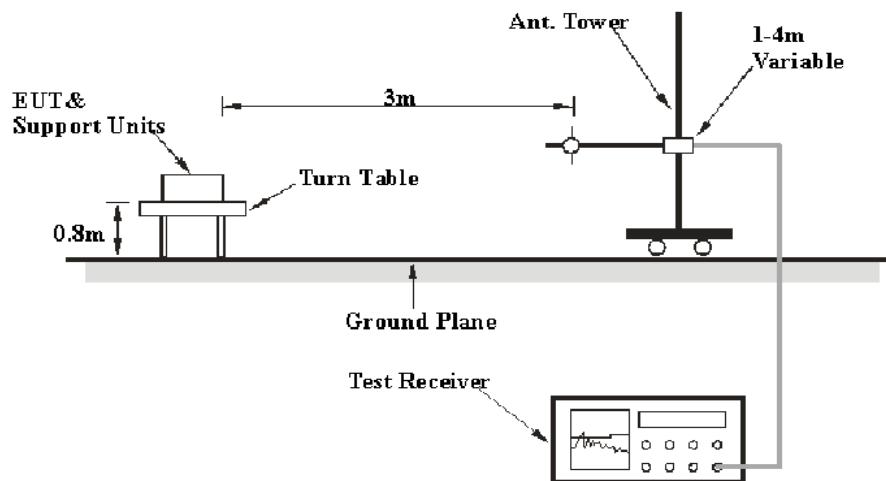
The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

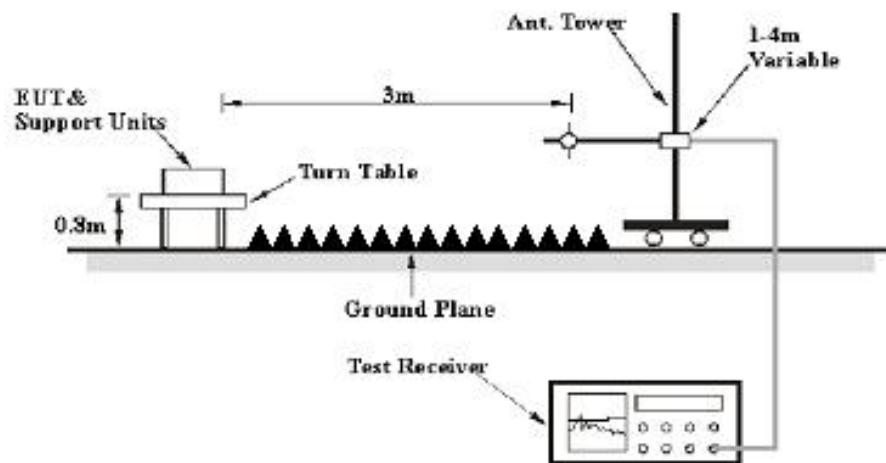
3.2 Radiation Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	---	PK
	---	---	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	AVG

If the maximized peak measured value complies with under the limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4. TEST DATA AND RESULTS

4.1 Conducted Emissions

Serial Number:	2L8X-1	Test Date:	2024/5/15
Test Site:	CE	Test Mode:	Charging
Tester:	David Huang	Test Result:	Pass

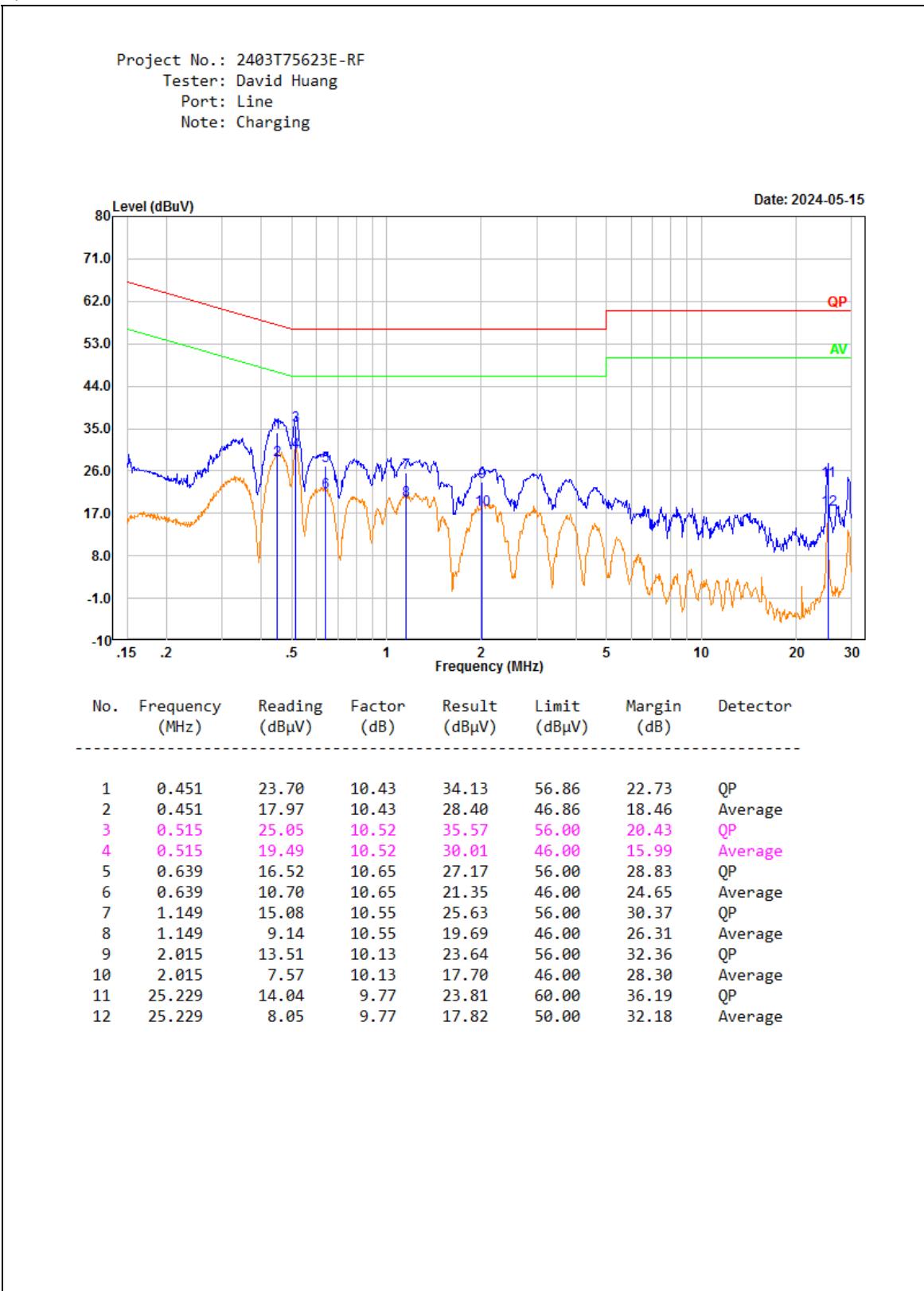
Environmental Conditions:					
Temperature: (°C)	26.4	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101

Test Equipment List and Details:

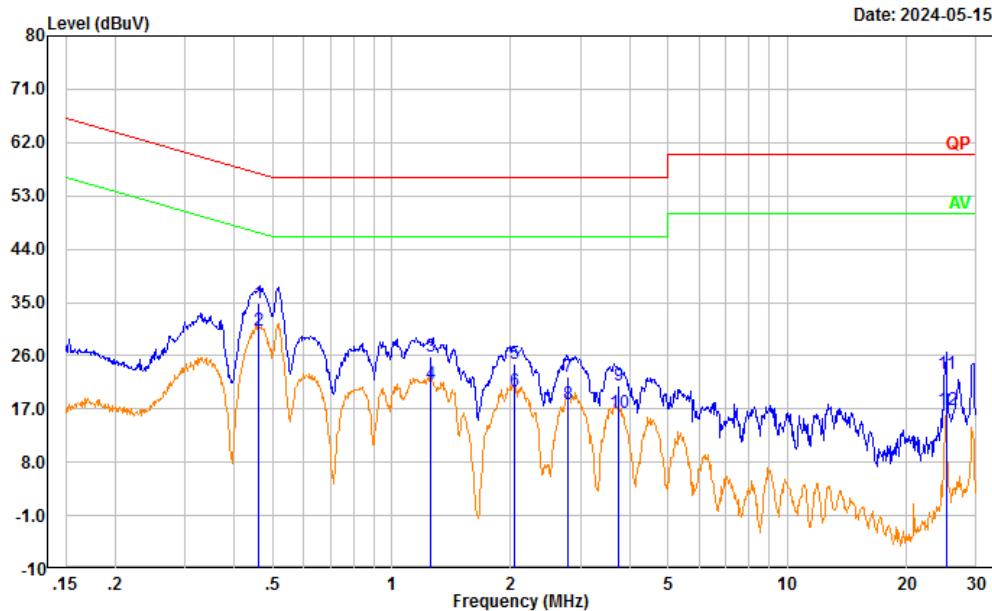
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2024/4/1	2025/3/31
R&S	EMI Test Receiver	ESR3	102726	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2024/1/15	2025/1/14
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

M1:



Project No.: 2403T75623E-RF
Tester: David Huang
Port: neutral
Note: Charging



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.460	24.34	10.48	34.82	56.69	21.87	QP
2	0.460	19.75	10.48	30.23	46.69	16.46	Average
3	1.254	15.33	10.47	25.80	56.00	30.20	QP
4	1.254	10.80	10.47	21.27	46.00	24.73	Average
5	2.040	14.30	10.33	24.63	56.00	31.37	QP
6	2.040	9.64	10.33	19.97	46.00	26.03	Average
7	2.797	12.19	10.26	22.45	56.00	33.55	QP
8	2.797	7.55	10.26	17.81	46.00	28.19	Average
9	3.733	10.86	10.18	21.04	56.00	34.96	QP
10	3.733	6.13	10.18	16.31	46.00	29.69	Average
11	25.288	12.67	10.18	22.85	60.00	37.15	QP
12	25.288	6.59	10.18	16.77	50.00	33.23	Average

4.2 Radiation Spurious Emissions

Serial Number:	2L8X-1	Test Date:	2024/5/15~2024/5/16
Test Site:	966-2,966-1	Test Mode:	M1-M2
Tester:	Carl Xue, Tao Zhu	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.3-25.9	Relative Humidity: (%)	52-61	ATM Pressure: (kPa)	100.9-101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/12/4	2024/12/3
Sonoma	Amplifier	310N	186165	2023/12/4	2024/12/3
Audix	Test Software	E3	191218 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

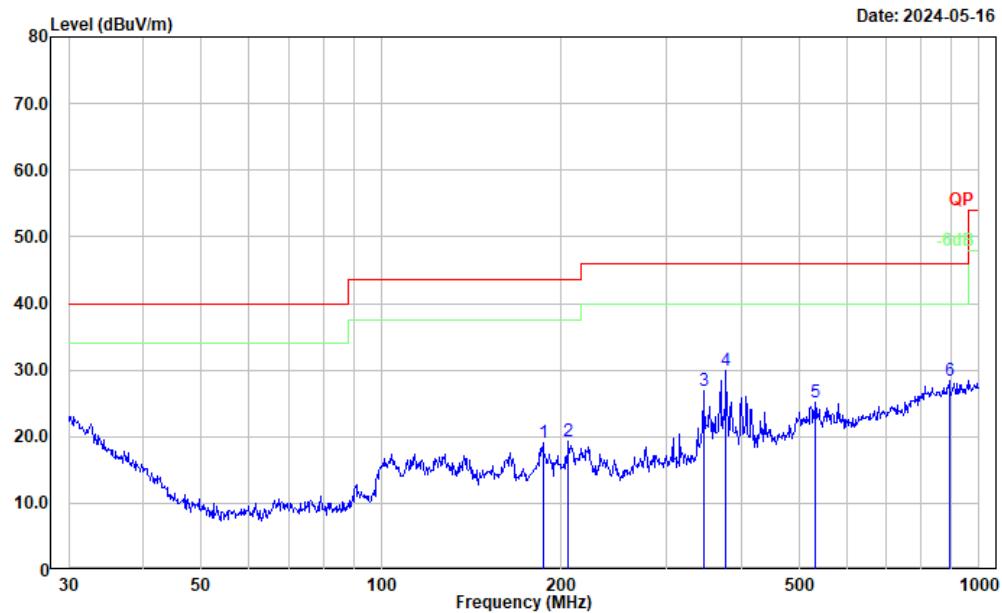
Test Data:

After pre-scan in the X, Y and Z axes of orientation, the **worst case** (Z axes) is referred to the following test plots.

1) 30MHz-1GHz

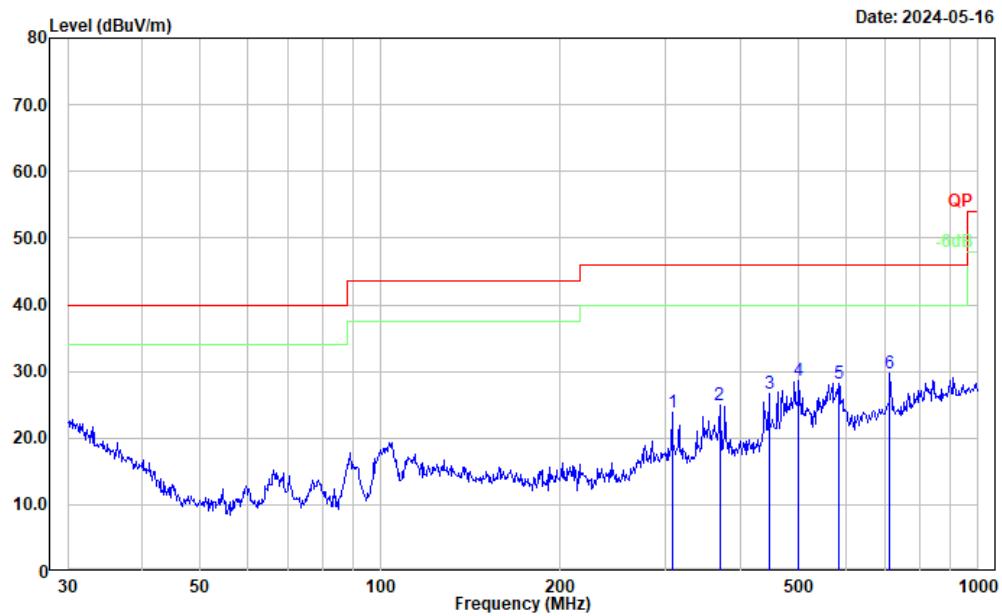
M1:

Project No.: 2403T75623E-RF
Tester: Carl Xue
Polarization: horizontal
Note: Charging



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	186.441	32.78	-13.78	19.00	43.50	24.50	Peak
2	205.675	32.67	-13.40	19.27	43.50	24.23	Peak
3	345.595	36.58	-9.69	26.89	46.00	19.11	Peak
4	377.259	38.77	-8.88	29.89	46.00	16.11	Peak
5	531.964	30.60	-5.39	25.21	46.00	20.79	Peak
6	890.728	28.64	-0.20	28.44	46.00	17.56	Peak

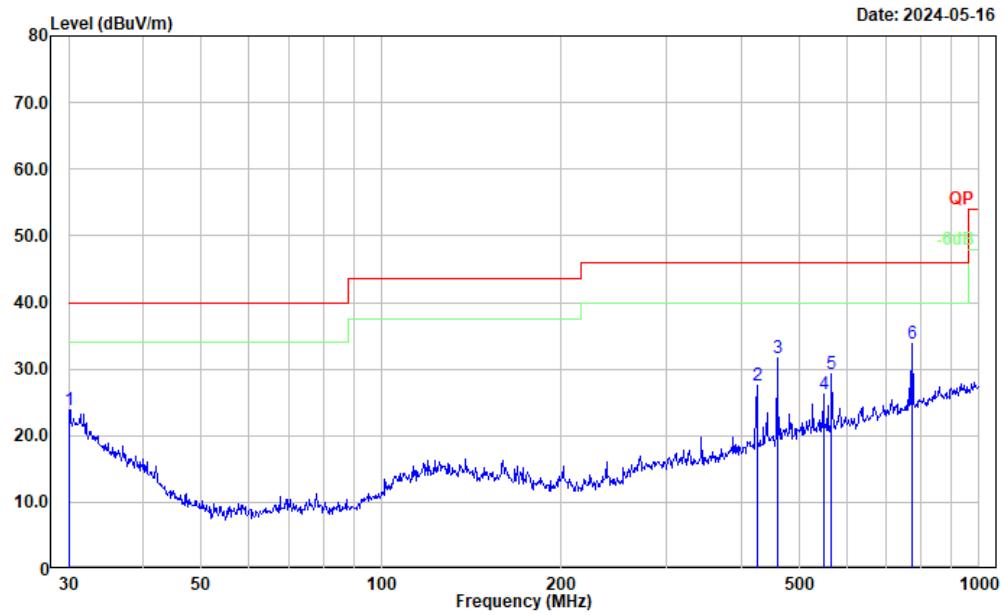
Project No.: 2403T75623E-RF
Tester: Carl Xue
Polarization: vertical
Note: Charging



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	307.831	34.18	-10.24	23.94	46.00	22.06	Peak
2	369.405	34.04	-9.15	24.89	46.00	21.11	Peak
3	446.414	33.50	-6.90	26.60	46.00	19.40	Peak
4	501.179	34.51	-5.85	28.66	46.00	17.34	Peak
5	584.790	32.68	-4.50	28.18	46.00	17.82	Peak
6	711.674	32.51	-2.80	29.71	46.00	16.29	Peak

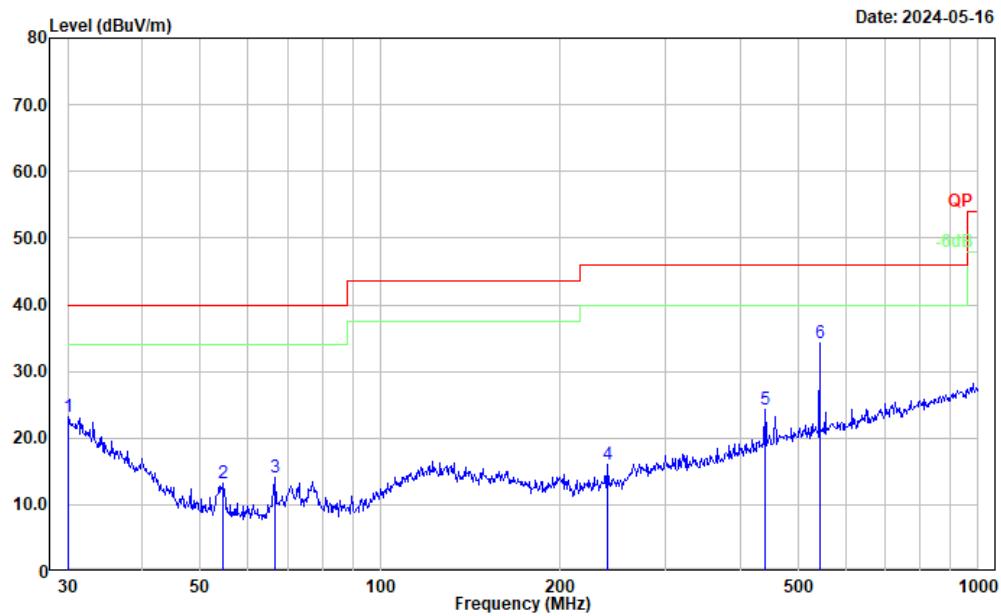
M2:

Project No.: 2403T75623E-RF
Tester: Carl Xue
Polarization: horizontal
Note: Operating



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
<hr/>							
1	30.105	27.84	-3.93	23.91	40.00	16.09	Peak
2	425.028	35.04	-7.49	27.55	46.00	18.45	Peak
3	459.114	38.25	-6.69	31.56	46.00	14.44	Peak
4	549.020	31.64	-5.43	26.21	46.00	19.79	Peak
5	566.622	34.33	-4.96	29.37	46.00	16.63	Peak
6	774.158	35.74	-1.94	33.80	46.00	12.20	Peak

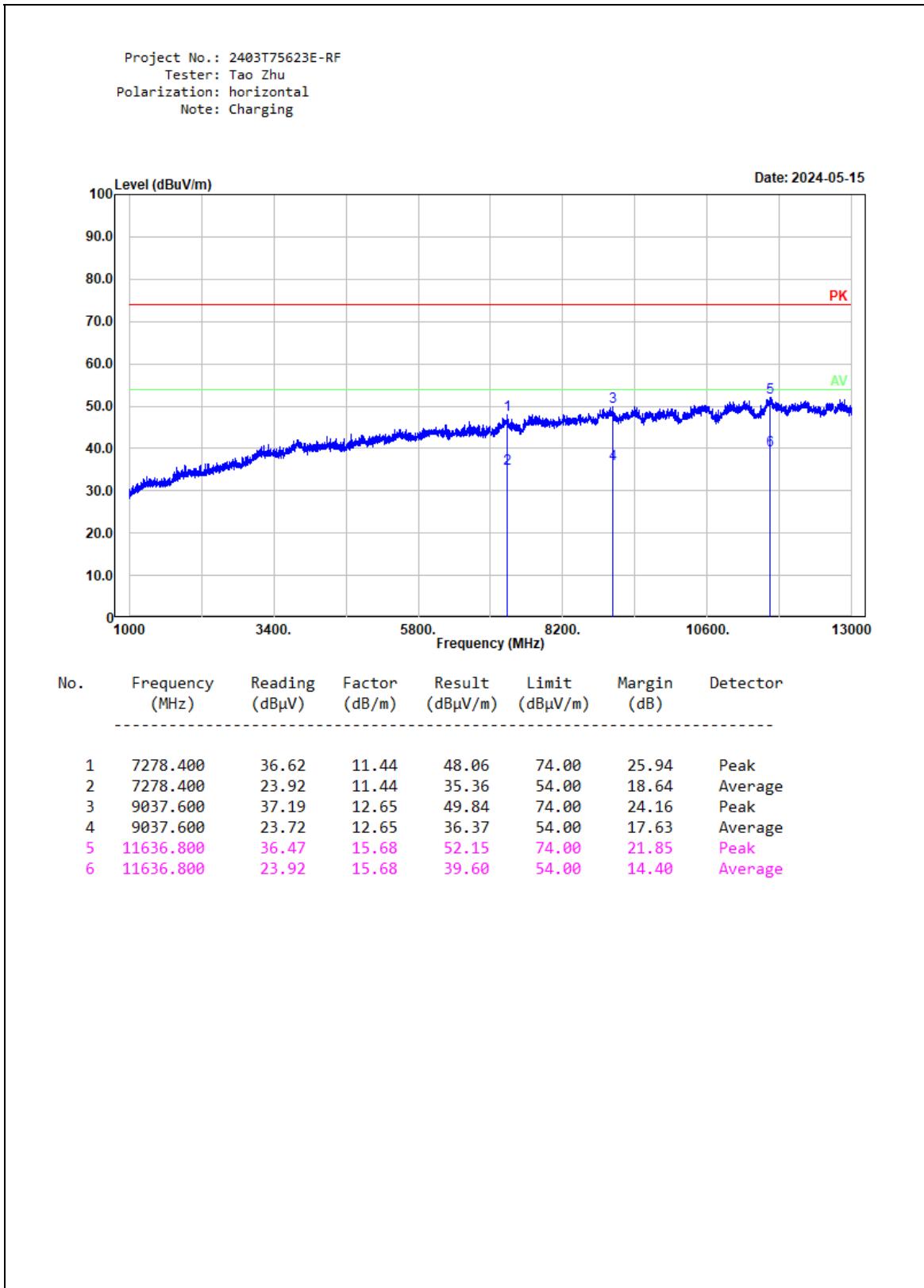
Project No.: 2403T75623E-RF
Tester: Carl Xue
Polarization: vertical
Note: Operating



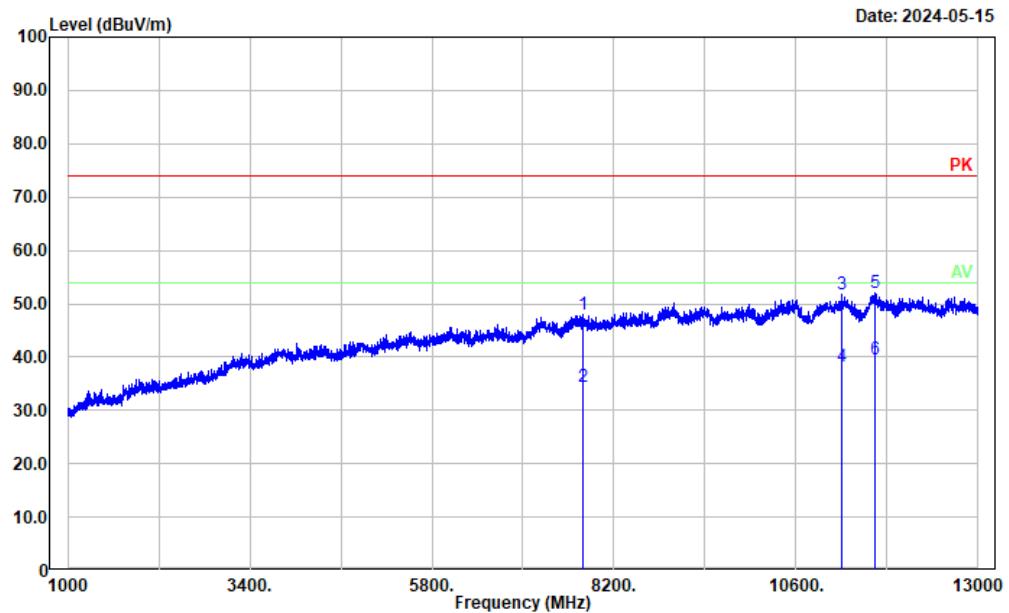
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.105	27.11	-3.93	23.18	40.00	16.82	Peak
2	54.643	30.94	-17.71	13.23	40.00	26.77	Peak
3	66.499	31.35	-17.35	14.00	40.00	26.00	Peak
4	239.987	28.77	-12.80	15.97	46.00	30.03	Peak
5	440.196	31.15	-6.88	24.27	46.00	21.73	Peak
6	543.274	39.56	-5.36	34.20	46.00	11.80	Peak

2) Above 1GHz:

M1:

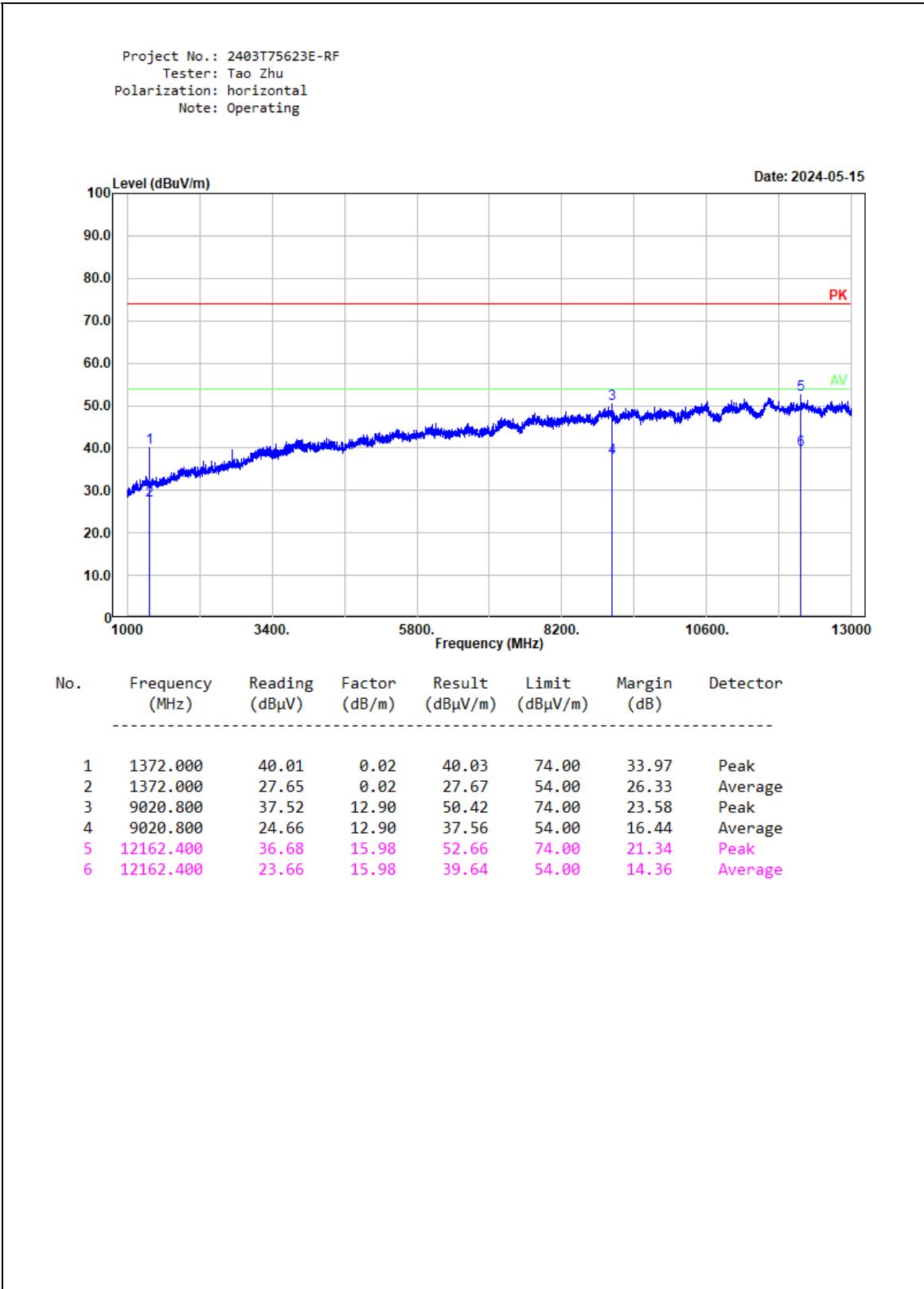


Project No.: 2403T75623E-RF
Tester: Tao Zhu
Polarization: vertical
Note: Charging

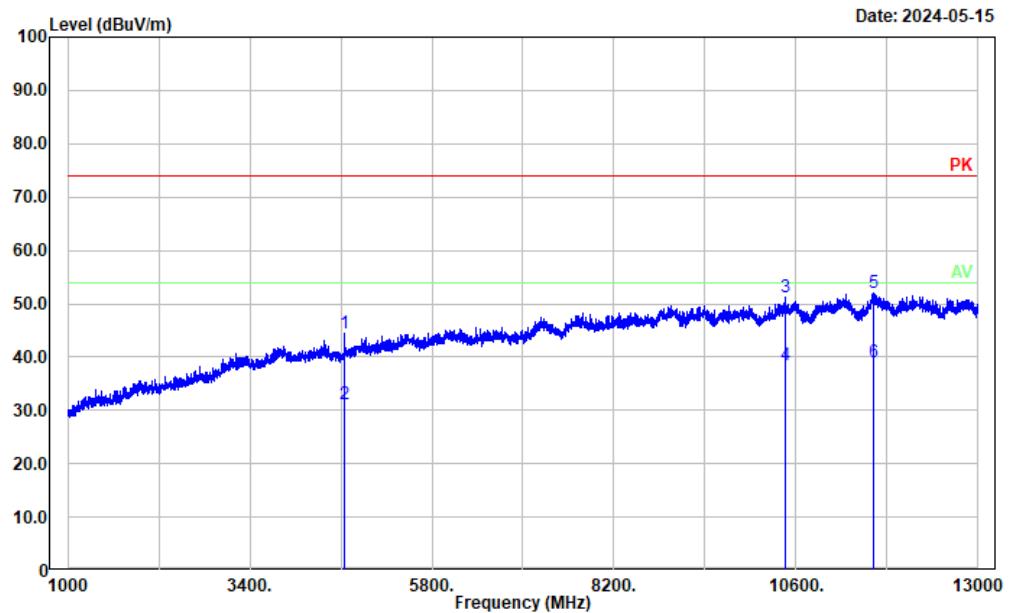


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	7794.400	35.74	12.11	47.85	74.00	26.15	Peak
2	7794.400	22.41	12.11	34.52	54.00	19.48	Average
3	11204.800	36.79	14.94	51.73	74.00	22.27	Peak
4	11204.800	23.26	14.94	38.20	54.00	15.80	Average
5	11632.000	36.28	15.73	52.01	74.00	21.99	Peak
6	11632.000	23.96	15.73	39.69	54.00	14.31	Average

M2:



Project No.: 2403T75623E-RF
Tester: Tao Zhu
Polarization: vertical
Note: Operating



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	4652.800	36.45	8.01	44.46	74.00	29.54	Peak
2	4652.800	23.19	8.01	31.20	54.00	22.80	Average
3	10451.200	37.30	13.95	51.25	74.00	22.75	Peak
4	10451.200	24.57	13.95	38.52	54.00	15.48	Average
5	11622.400	36.09	15.81	51.90	74.00	22.10	Peak
6	11622.400	23.21	15.81	39.02	54.00	14.98	Average

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403T75623E-EXP EUT EXTERNAL PHOTOGRAPHS and 2403T75623E-INP EUT INTERNAL PHOTOGRAPHS.

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403T75623E-00-TSP TEST SETUP PHOTOGRAPHS.

=====END OF REPORT=====