

TEST REPORT

Applicant Name: Shenzhen Saiku Electronic Co., Ltd.
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Hangcheng Street, Shenzhen, China
Report Number: 2501R17312E-RF-00
FCC ID: 2A8DGA-B1

Test Standard (s)

FCC Part 15C

Sample Description

Product Type: Pet Barrier Transmitter
Model No.: B1
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/03/17
Issue Date: 2025/04/11

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Bruce Lin
RF Engineer

Approved By:

Jimmy Xiao

Jimmy Xiao
EMC Manager

Note: The information marked[#] is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501R17312E-RF-00	Original Report	2025/04/11

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Pet Barrier Transmitter
Tested Model	B1
Multiple Model(s)	N/A
Frequency Range	125kHz
Input Voltage	DC 3.7V from battery or 5V from adapter
Sample serial number	2ZTB-7 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207, 15.209 and 15.215.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz – 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode.

EUT Exercise Software

No software used in test.

Local Support Equipment

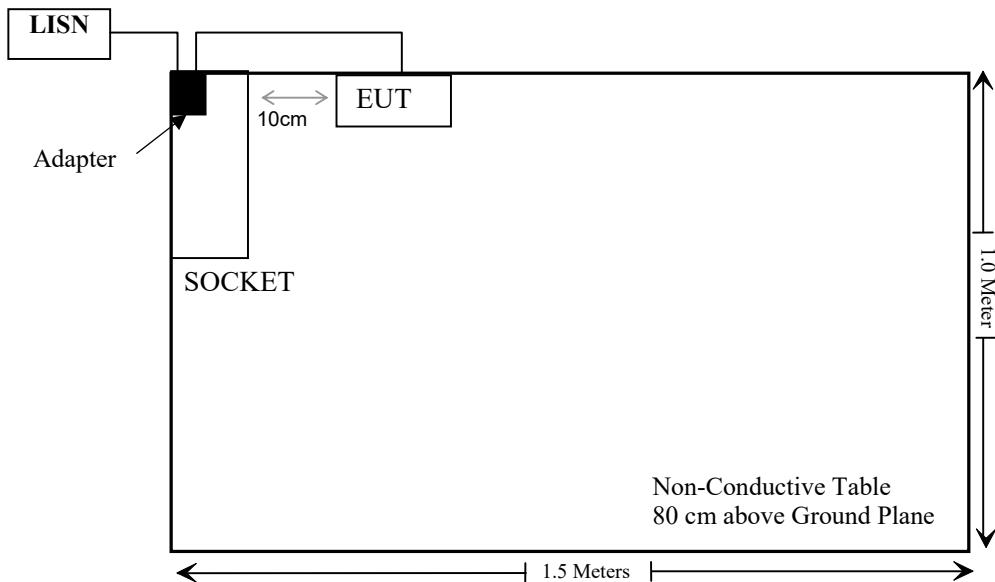
Manufacturer	Description	Model	Serial Number
OUPU	SOCKET	PDU-OP1606K	6971041358020
TECNO	Adapter	U700TSA	Unknown
XED	Adapter	XED-UL050100CU	Unknown

External I/O Cable

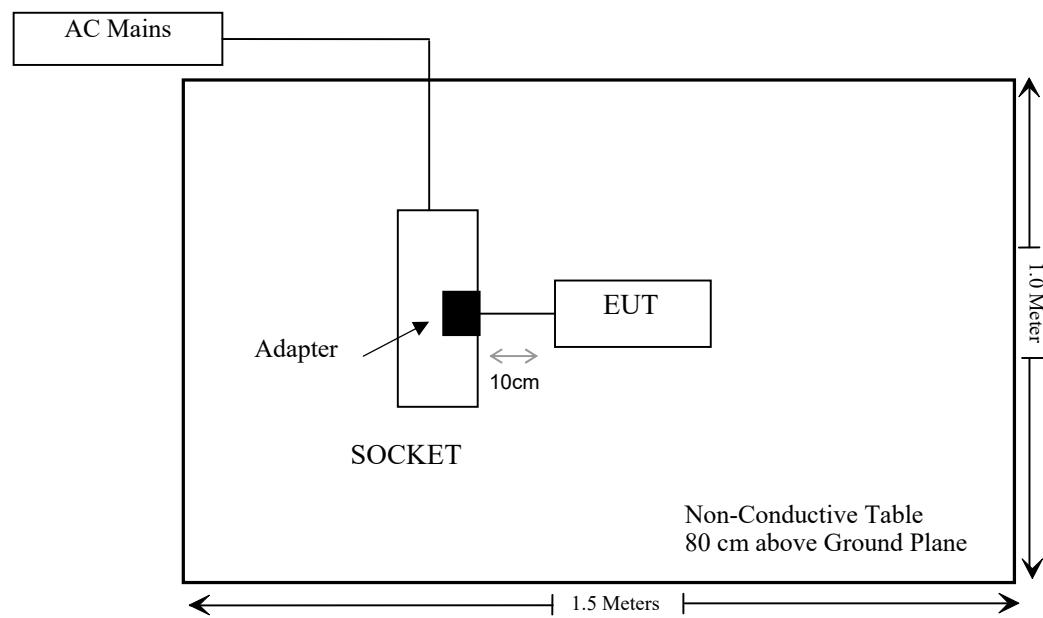
Cable Description	Length (m)	From Port	To
Un-shielded Un-detachable AC Cable	1.2	AC mains	SOCKET
Un-shielded Detachable USB Cable	0.8	EUT	Adapter

Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.203	Antenna Requirement	Compliant
FCC§15.207	AC Line Conducted Emission	Compliant
§15.209 §15.205	Radiated Emission Test	Compliant
§15.215 (c)	20dB Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
RF Radiated Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connected Construction

The EUT has one coil antenna arrangement which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

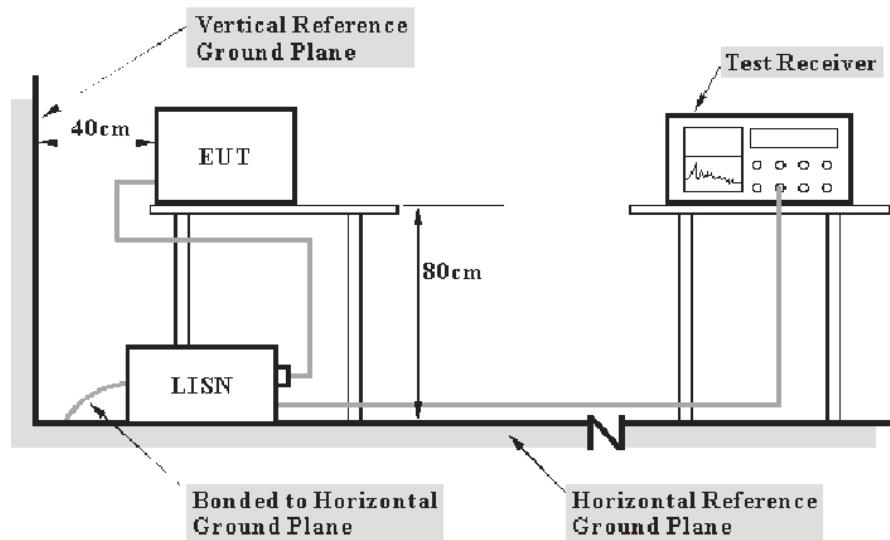
Result: Compliant.

FCC §15.207 - AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

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

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “Over limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

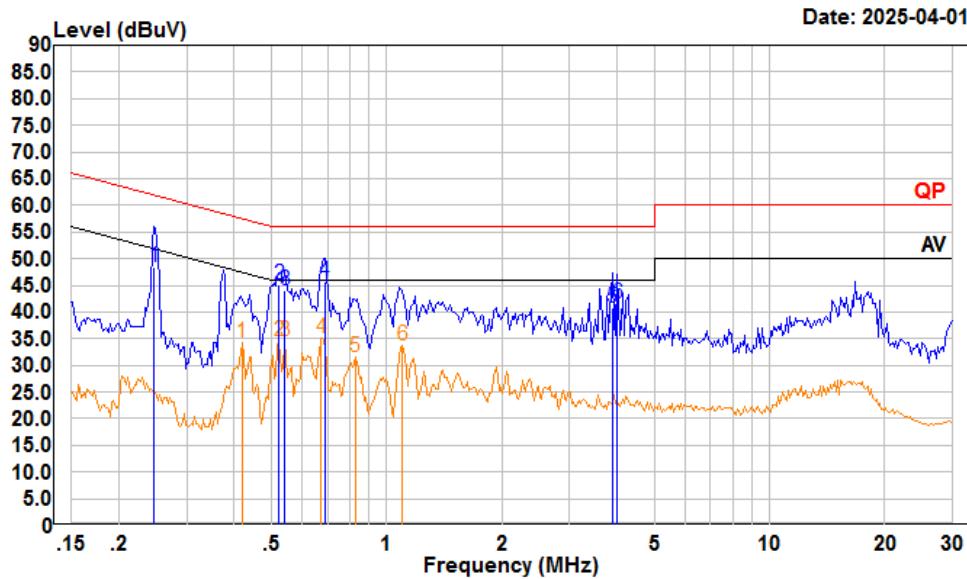
Environmental Conditions

Temperature:	23.0 °C
Relative Humidity:	43 %
ATM Pressure:	101.2 kPa

The testing was performed by Macy Shi on 2025-04-01.

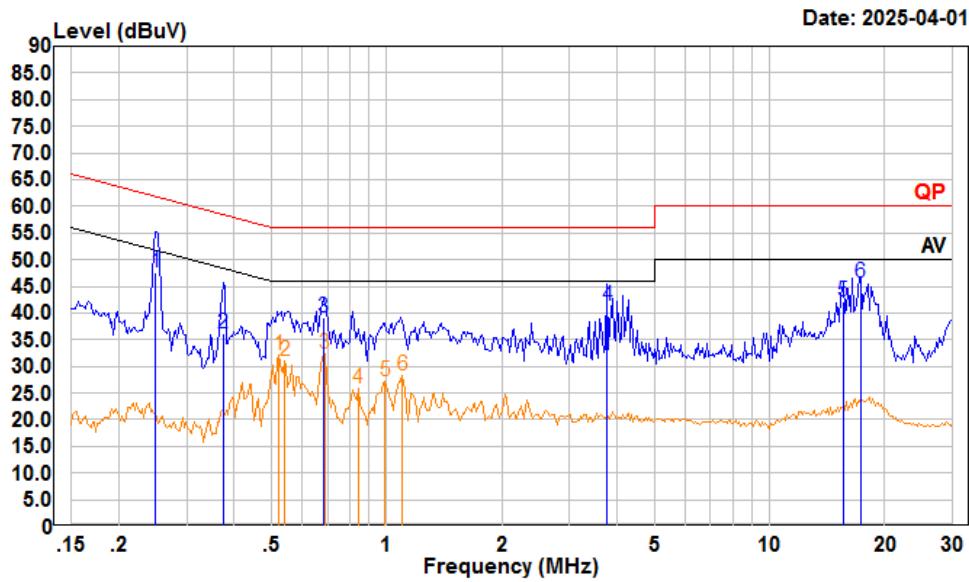
Test Mode: Transmitting

AC 120 V/60 Hz, Line



	Freq	Read		LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
		MHz	dBuV					
1	0.247	27.60	48.33	10.65	10.08	61.86	-13.53	QP
2	0.524	24.39	45.09	10.56	10.14	56.00	-10.91	QP
3	0.541	23.30	44.02	10.59	10.13	56.00	-11.98	QP
4	0.690	24.60	45.63	10.88	10.15	56.00	-10.37	QP
5	3.881	19.80	40.92	10.91	10.21	56.00	-15.08	QP
6	4.006	20.50	41.61	10.90	10.21	56.00	-14.39	QP
Read								
	Freq	Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
		MHz	dBuV					
1	0.419	13.60	34.25	10.54	10.11	47.46	-13.21	Average
2	0.524	13.79	34.49	10.56	10.14	46.00	-11.51	Average
3	0.541	13.79	34.51	10.59	10.13	46.00	-11.49	Average
4	0.675	14.05	35.05	10.86	10.14	46.00	-10.95	Average
5	0.826	10.68	31.55	10.76	10.11	46.00	-14.45	Average
6	1.100	12.81	33.60	10.67	10.12	46.00	-12.40	Average

AC 120V/ 60 Hz, Neutral



Freq	Read		LISN	Cable	Limit	Over	Remark
	MHz	dBuV	Level	Factor	Loss	Line	
1	0.249	26.90	47.71	10.73	10.08	61.78	-14.07 QP
2	0.373	15.60	36.31	10.60	10.11	58.43	-22.12 QP
3	0.683	18.41	39.14	10.59	10.14	56.00	-16.86 QP
4	3.759	20.31	41.48	10.97	10.20	56.00	-14.52 QP
5	15.552	21.51	42.12	10.40	10.21	60.00	-17.88 QP
6	17.291	24.69	45.59	10.70	10.20	60.00	-14.41 QP
Read		LISN	Cable	Limit	Line	Over	Remark
Freq	Level	Level	Factor	Loss	Line	Limit	
1	0.524	11.37	32.02	10.51	10.14	46.00	-13.98 Average
2	0.541	10.30	30.95	10.52	10.13	46.00	-15.05 Average
3	0.690	11.52	32.27	10.60	10.15	46.00	-13.73 Average
4	0.844	4.91	25.72	10.70	10.11	46.00	-20.28 Average
5	0.989	6.23	27.13	10.79	10.11	46.00	-18.87 Average
6	1.100	7.47	28.38	10.79	10.12	46.00	-17.62 Average

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.209

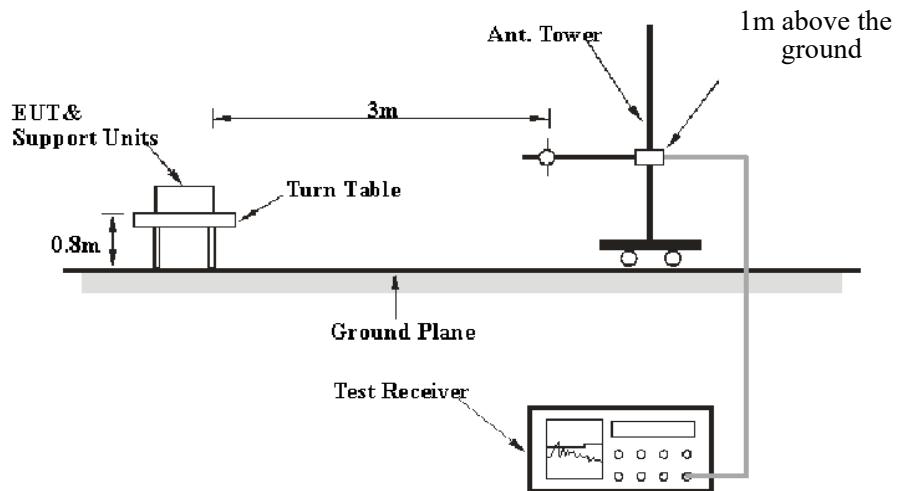
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

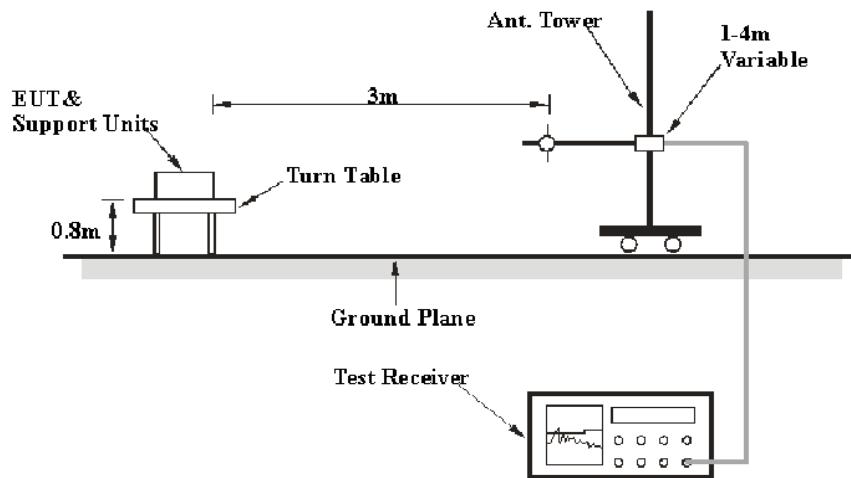
**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1000MHz.

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

Note 1: For the frequency bands 9–90 kHz, 110–490 kHz are based on measurements employing an average detector.

Note 2: If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit/Margin} = \text{Level} / \text{Corrected Amplitude} - \text{Limit}$$
$$\text{Level} / \text{Corrected Amplitude} = \text{Read Level} + \text{Factor}$$

Test Data

Environmental Conditions

Temperature:	23~25 °C
Relative Humidity:	43~50 %
ATM Pressure:	101~102 kPa

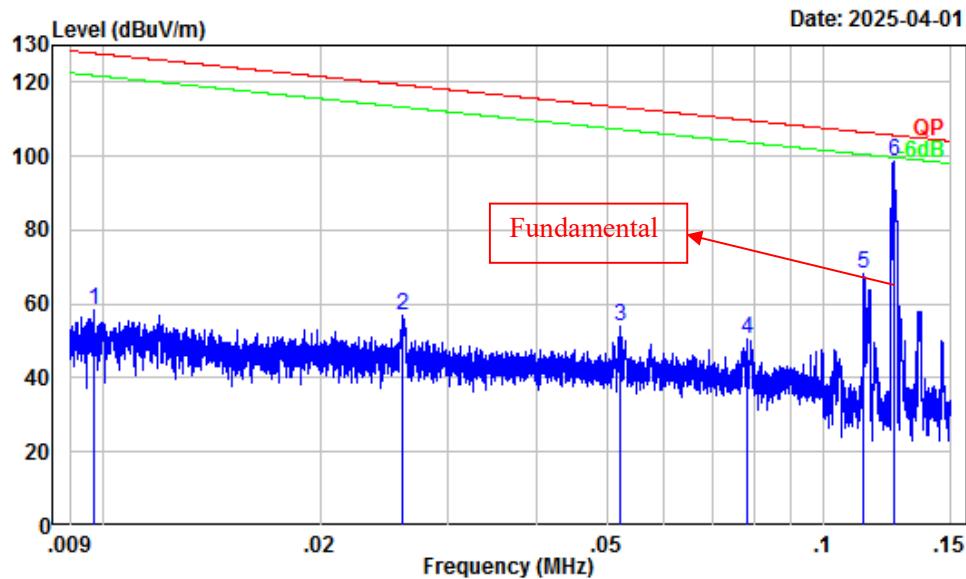
The testing was performed by Anson Su from 2025-03-29 to 2025-04-01.

Test Mode: Transmitting

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded

Parallel:

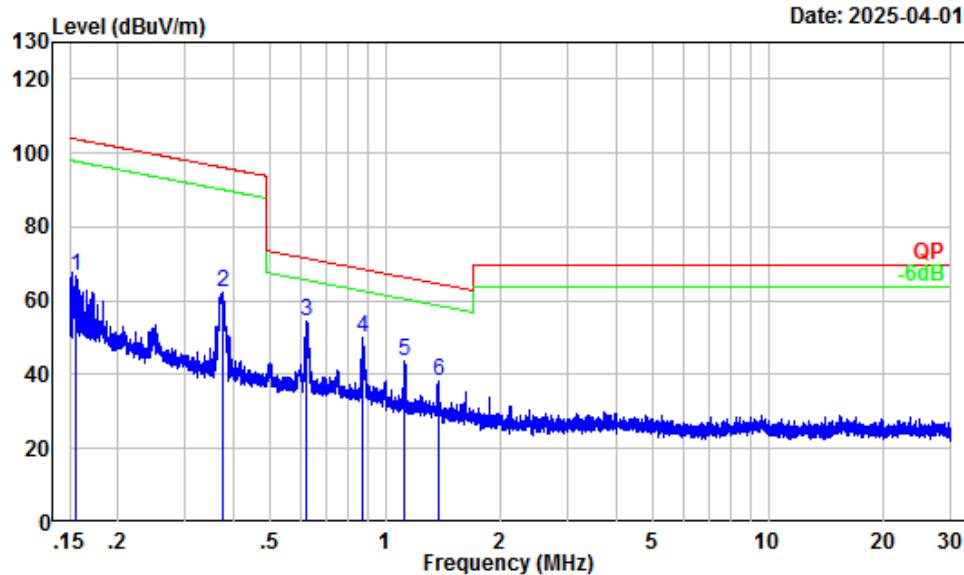
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.01	32.35	25.95	58.30	127.84 -69.54 Peak
2	0.03	29.24	27.82	57.06	119.28 -62.22 Peak
3	0.05	26.19	27.84	54.03	113.26 -59.23 Peak
4	0.08	23.59	26.95	50.54	109.75 -59.21 Peak
5	0.11	21.19	46.76	67.95	106.49 -38.54 Peak
6	0.13	20.52	78.14	98.66	105.66 -7.00 Peak

150 kHz~30 MHz

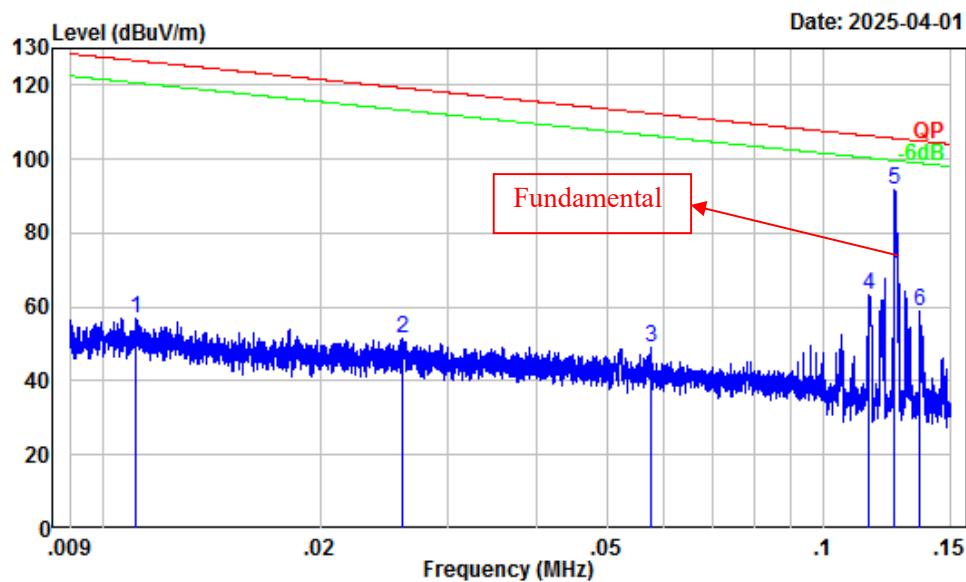


Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Read Freq	Factor	Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dB _{uV}	dB _{uV/m}	dB _{uV/m}	dB	
1	0.16	18.68	47.95	66.63	103.73	-37.10	Peak
2	0.38	8.75	53.79	62.54	96.10	-33.56	Peak
3	0.62	4.90	49.47	54.37	71.69	-17.32	Peak
4	0.87	2.15	48.07	50.22	68.67	-18.45	Peak
5	1.13	0.85	42.86	43.71	66.42	-22.71	Peak
6	1.37	0.15	38.32	38.47	64.66	-26.19	Peak

Ground-parallel:

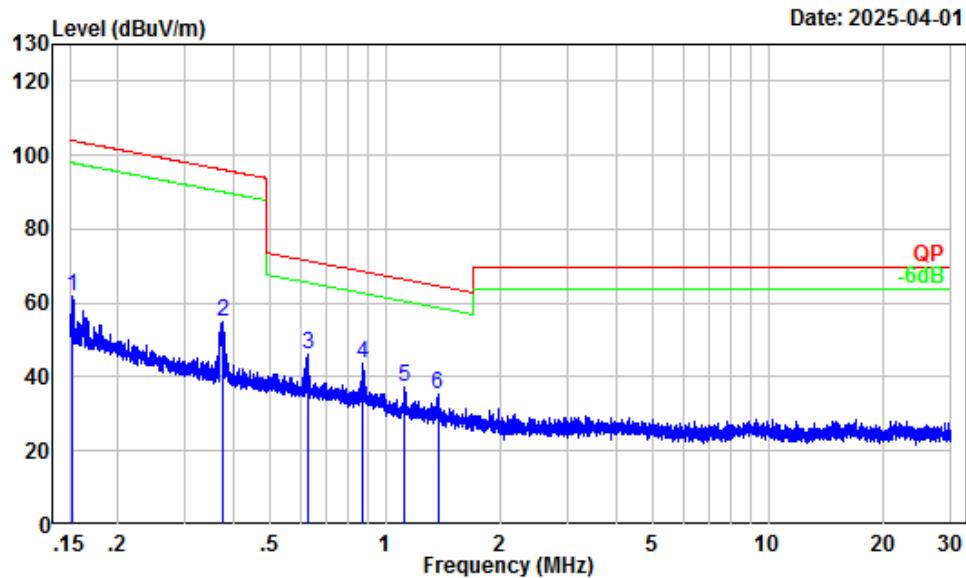
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.01	32.08	24.70	56.78	126.67 -69.89 Peak
2	0.03	29.25	22.39	51.64	119.28 -67.64 Peak
3	0.06	25.64	23.48	49.12	112.40 -63.28 Peak
4	0.12	21.08	42.23	63.31	106.34 -43.03 Peak
5	0.13	20.50	71.15	91.65	105.63 -13.98 Peak
6	0.14	19.90	39.17	59.07	104.96 -45.89 Peak

150 kHz~30 MHz

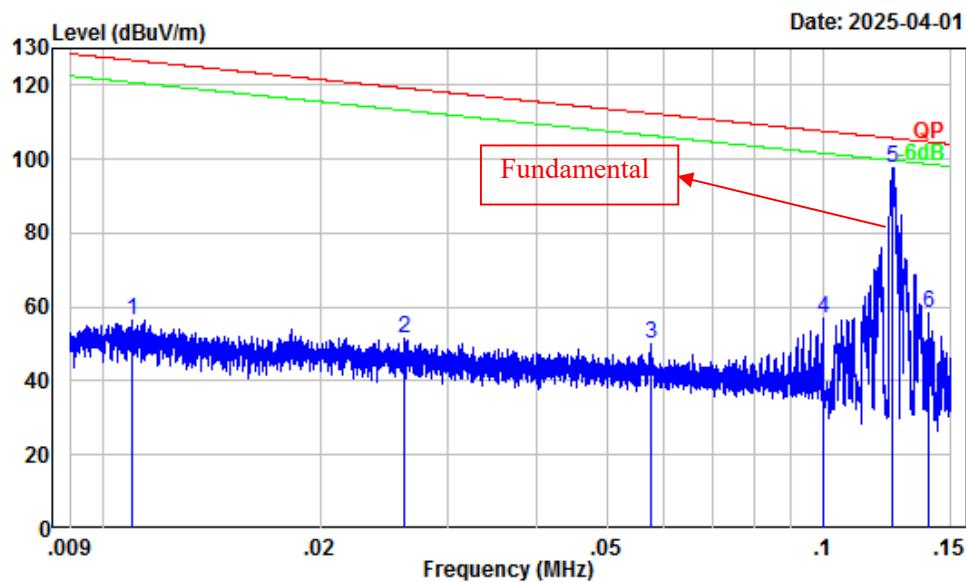


Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.15	18.93	42.70	61.63	103.96 -42.33 Peak
2	0.38	8.75	46.14	54.89	96.10 -41.21 Peak
3	0.63	4.85	41.46	46.31	71.63 -25.32 Peak
4	0.88	2.13	41.39	43.52	68.65 -25.13 Peak
5	1.12	0.85	36.50	37.35	66.43 -29.08 Peak
6	1.37	0.16	35.35	35.51	64.67 -29.16 Peak

Perpendicular:

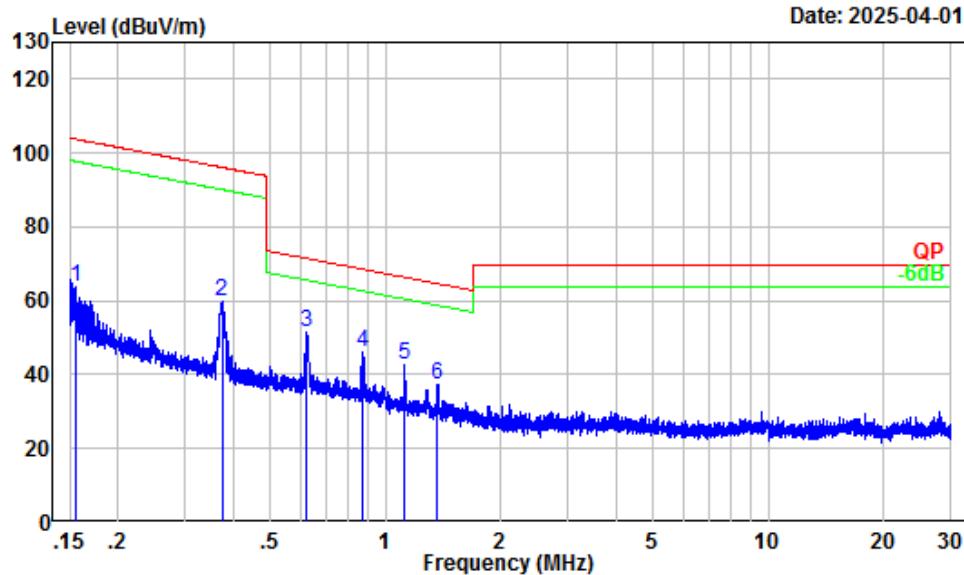
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

Freq	Factor	Read	Limit	Over	Remark	
		Level	Level	Line		
1	0.01	32.12	24.47	56.59	126.80	-70.21 Peak
2	0.03	29.21	22.51	51.72	119.22	-67.50 Peak
3	0.06	25.64	24.49	50.13	112.39	-62.26 Peak
4	0.10	22.02	34.81	56.83	107.63	-50.80 Peak
5	0.12	20.57	77.03	97.60	105.72	-8.12 Peak
6	0.14	19.66	38.73	58.39	104.70	-46.31 Peak

150 kHz~30 MHz

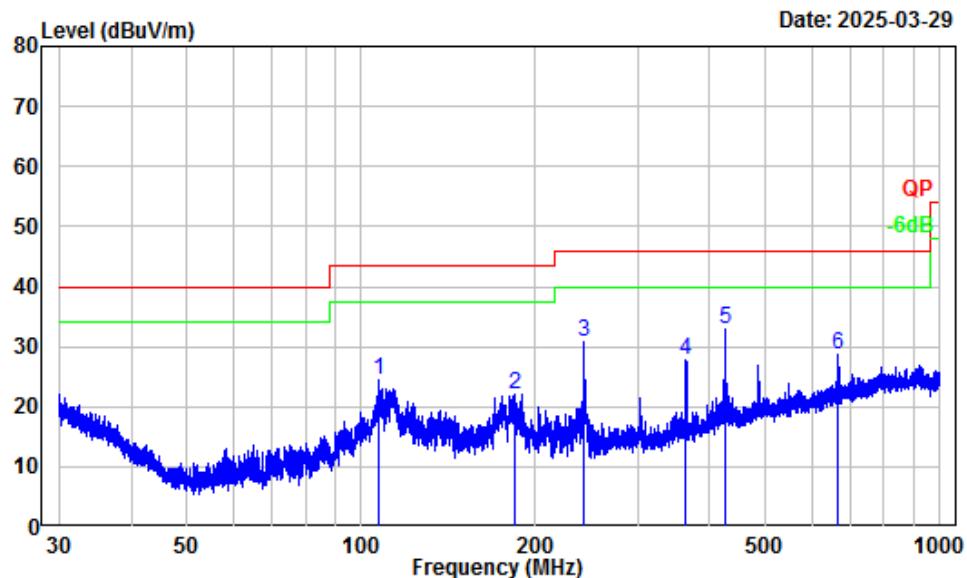


Site : Chamber A
Condition : 3m
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Note : Perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Read Freq	Factor	Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dB _{uV}	dB _{uV/m}	dB _{uV/m}	dB	
1	0.16	18.70	44.97	63.67	103.74	-40.07	Peak
2	0.37	8.79	51.05	59.84	96.14	-36.30	Peak
3	0.62	4.88	46.57	51.45	71.67	-20.22	Peak
4	0.87	2.15	44.21	46.36	68.68	-22.32	Peak
5	1.12	0.85	41.81	42.66	66.44	-23.78	Peak
6	1.37	0.17	37.31	37.48	64.69	-27.21	Peak

30MHz~1GHz:

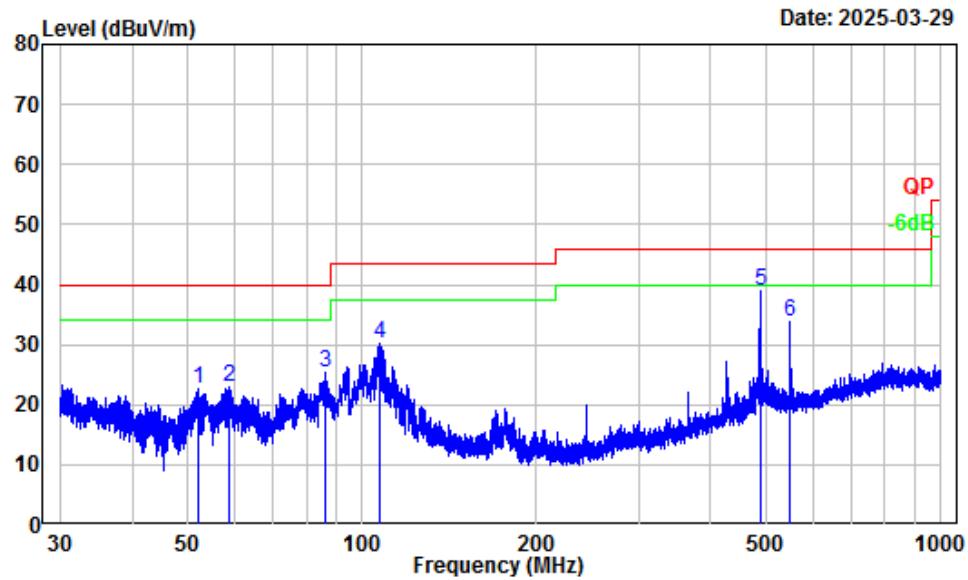
Note: when the result of Peak below the limit of QP more than 6dB, just the peak value was record

Horizontal

Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

Freq Factor	Read		Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dB
1	107.09	-13.80	38.11	24.31	43.50 -19.19 Peak
2	183.84	-13.93	36.03	22.10	43.50 -21.40 Peak
3	242.84	-13.25	43.98	30.73	46.00 -15.27 Peak
4	364.26	-9.69	37.54	27.85	46.00 -18.15 Peak
5	424.84	-7.88	40.67	32.79	46.00 -13.21 Peak
6	667.56	-3.86	32.58	28.72	46.00 -17.28 Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R17312E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

Freq	Factor	Read	Limit	Over	Remark	
		Level	Level	Line		
1	51.98	-18.22	40.88	22.66	40.00	-17.34 Peak
2	58.77	-18.22	41.27	23.05	40.00	-16.95 Peak
3	86.05	-18.08	43.42	25.34	40.00	-14.66 Peak
4	107.37	-13.75	43.83	30.08	43.50	-13.42 Peak
5	487.74	-6.08	45.17	39.09	46.00	-6.91 Peak
6	548.30	-5.56	39.27	33.71	46.00	-12.29 Peak

FCC §15.215 (c) - 20 dB EMISSION BANDWIDTH

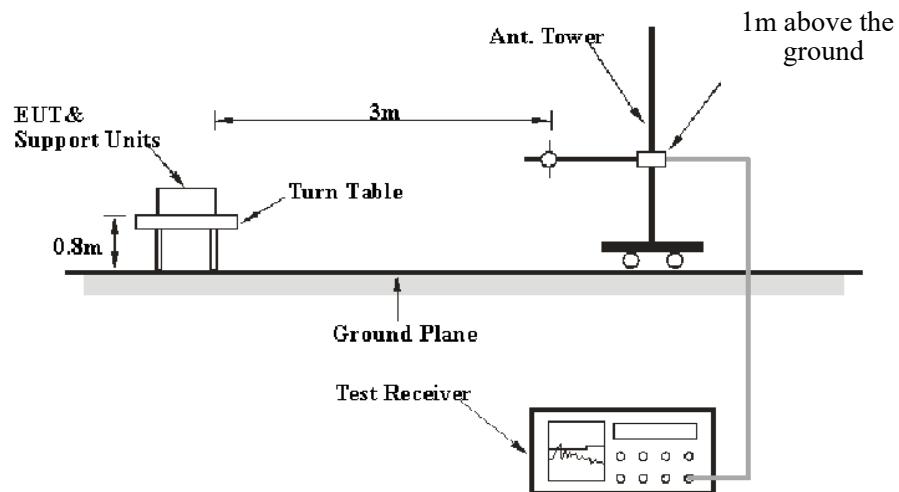
Applicable Standard

According to § 15.215 (c)

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. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



Test Data

Environmental Conditions

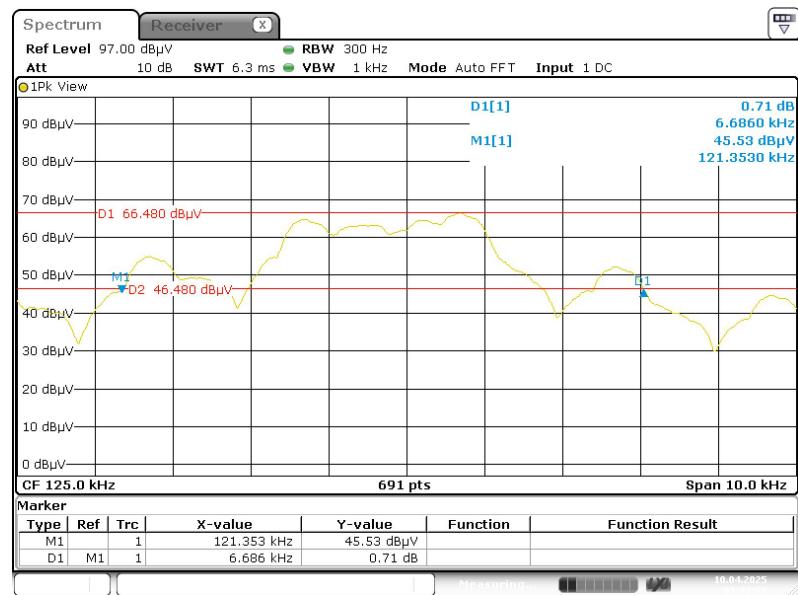
Temperature:	25 °C
Relative Humidity:	43 %
ATM Pressure:	101 kPa

The testing was performed by Anson Su on 2025-04-10.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to following table and plot.

Channel Frequency (kHz)	20 dB Emission Bandwidth (kHz)
125	6.686



EUT PHOTOGRAPHS

Please refer to the attachment 2501R17312E-RF External photo and 2501R17312E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R17312E-RF Test Setup photo.

******* END OF REPORT *******