TEST REPORT

Applicant Name:	Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.
Address:	No. 8 Minying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China
Report Number:	2504Y17236E-RFB
FCC ID:	2A4MQ-RKA72
IC:	29367-RKA72

Test Standard (s)

FCC PART 15.249
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2
RSS-210 ISSUE 11, JUNE 25, 2024

Sample Description

Product Name:	Mechanical keyboard
Model No.:	RK A72, 9003
Trade Mark:	
Date Received:	2025-10-21
Report Date:	2025-12-19

Test Result:	The EUT complied with the standards above.

Prepared and Checked By:

Jason Fan

EMC Engineer

Approved By:

Bob.Liao

EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Y17236E-RFB	Original Report	2025-12-19

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Mechanical keyboard
Tested Model	RK A72
Multiple Model	9003
Model Difference#	They are just the different model name (each model comes in various colors) and different with the names of distribution chains. Please refer to DOS letter for details. The applicant provided model “RK A72” for testing.
HVIN	RK A72, 9003
FVIN	N/A
Voltage Range#	DC5V from USB Type-Cport or DC3.7V from battery

Frequency Range	2.4G SRD : 2405-2475MHz
Maximum E-field Strength	97.61dBuV/m@3m
Modulation Technique	GFSK
Antenna Specification#	PCB Antenna: 1.2 dBi (It is provided by the applicant.)
Sample Serial Number	3BK9-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This type approval report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules, RSS-Gen, February 2021 AMENDMENT 2 and RSS-210, Issue 11, June 25, 2024 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.249 rules, RSS-Gen, February 2021 AMENDMENT 2 and RSS-210, Issue 11, June 25, 2024.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023+ C63.10a-2024+Errata to C63.10a-2024▲, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, RSS-Gen, February 2021 AMENDMENT 2 and RSS-210, Issue 11, June 25, 2024.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements. The Registration Number is 30241.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5 %
RF Frequency		$0.064*10^{-7}$
Unwanted Emission, conducted		1.2 dB
AC Power Lines Conducted Emissions		2.7 dB
Radiated Emissions	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
Temperature		1 ℃
Humidity		7 %
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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Frequency list[#]:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2405	4	2408	8	2414	12	2419
1	2426	5	2422	9	2436	13	2439
2	2440	6	2445	10	2459	14	2453
3	2463	7	2466	11	2470	15	2475

EUT was tested with Channel 0, 2 and 15.
EUT belongs to FHSS equipment.

EUT Exercise Software and Power Level[#]

Exercise Software:	Developer Mode
Power Level:	Default

Note: The information in the above table is provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

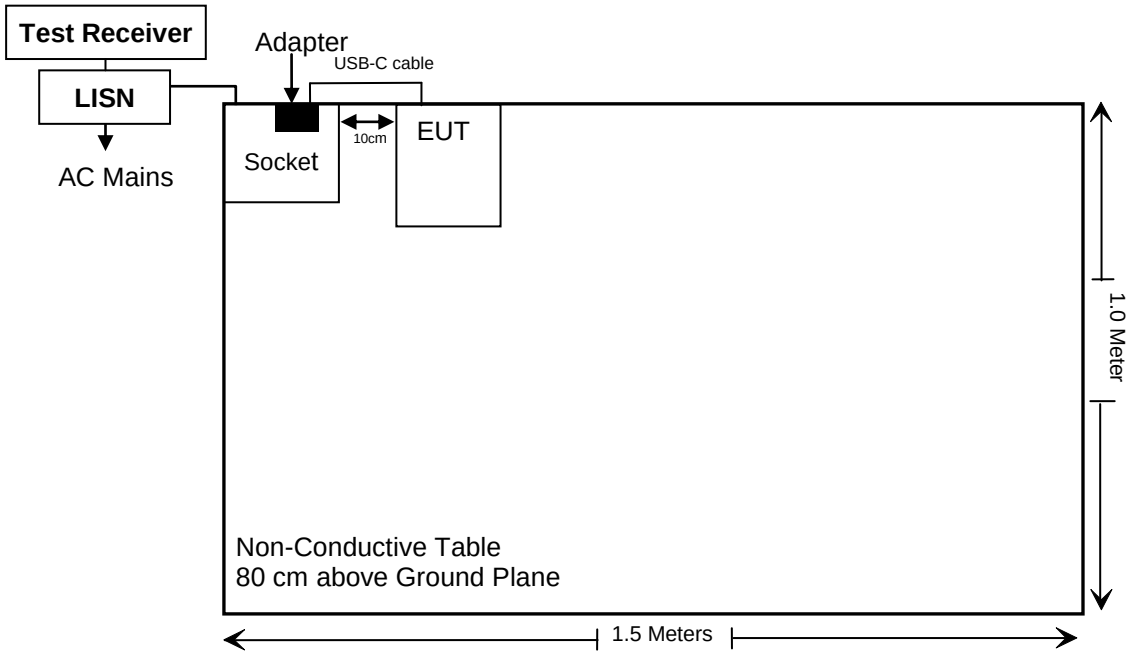
Manufacturer	Description	Model	Serial Number
ITEL	Adapter	U100IEA Input:100-240V~50/60Hz,500mA Output:DC5V-2.0A	Unknown

External I/O Cable

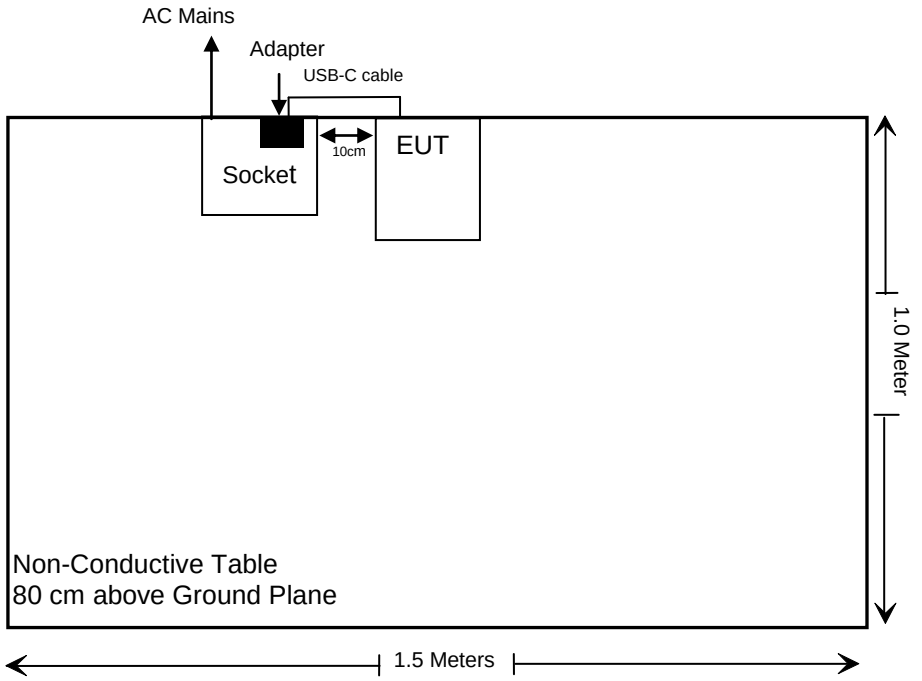
Cable Description	Shielding Type	Length (m)	From Port	To
Detachable USB Cable	No	1.8	Adapter	EUT

Block Diagram of Test Setup

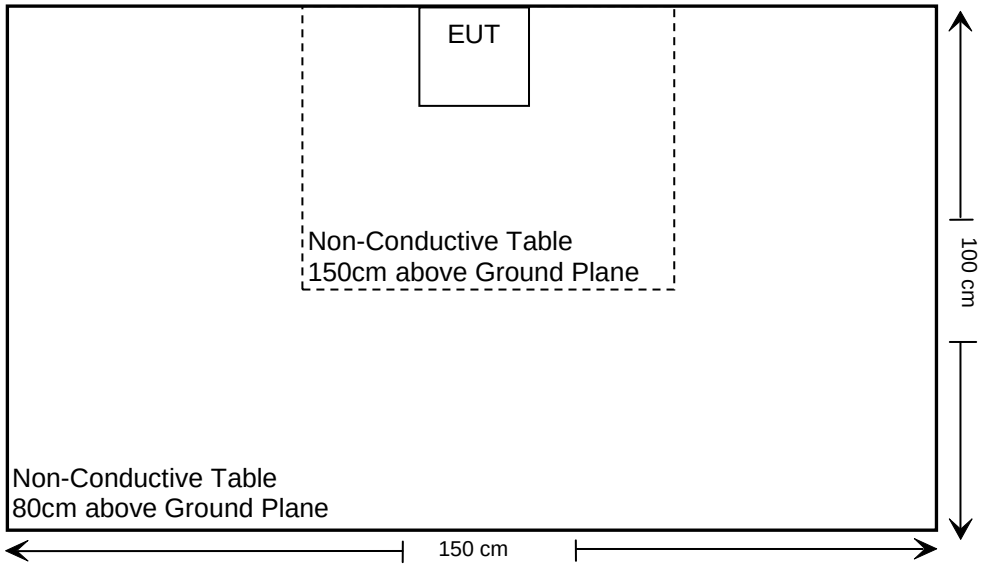
For Conducted Emission:



For Radiated Emission Below 1GHz:



For Radiated Emission Above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description of Test	Result
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliance
§15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.249(d)	RSS-210 Annex B.10 RSS-Gen §8.10	Radiated Emissions & Outside of Band Emission	Compliance
§15.215(c)	RSS-Gen §6.7	20dB Emission Bandwidth & 99% Occupied Bandwidth	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2025/09/17	2026/09/16
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2025/09/18	2026/09/17
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2025/09/18	2026/09/17
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.17	N0350	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2025/09/18	2026/09/17
SONOMA INSTRUMENT	Amplifier	310N	186131	2025/03/26	2026/03/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.13	N300	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.14	N800	2025/05/30	2026/05/29
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)/ 20dB Emission Bandwidth/99% Occupied Bandwidth					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2025/09/17	2026/09/16
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2025/09/18	2026/09/17
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2025/09/18	2026/09/17
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/20	2026/03/19
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.11	N1000	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.19	N500	2025/05/30	2026/05/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.15	N600	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.16	N650	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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.

According to RSS-Gen §6.8,

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).
When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.
For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

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

Type	Antenna Gain[#]	Impedance
PCB	1.2 dBi	50Ω

Result: Compliance

AC POWER LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a) & RSS-GEN §8.8

According to RSS-GEN §8.8,

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 µH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 - AC Power Lines Conducted Emission Limits

Frequency range (MHz)	Conducted limit (dBµV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56[1]	56 to 46[1]
0.5 – 5	56	46
5 – 30	60	50

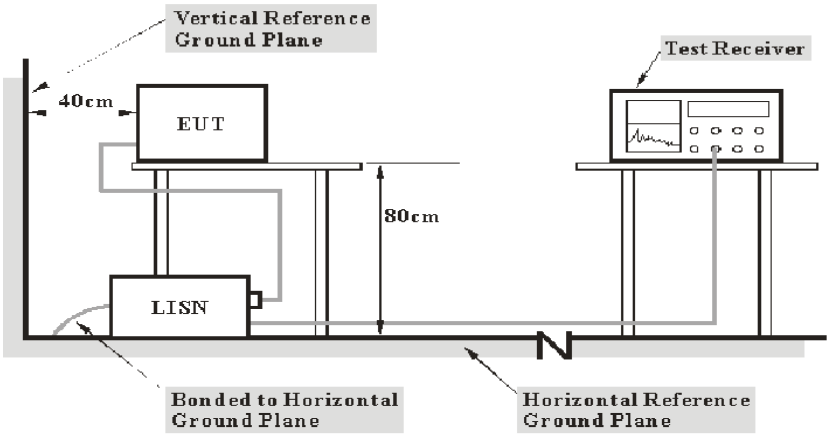
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

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 measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207 and RSS-GEN.

The spacing between the peripherals was 10 cm. The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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 LISN.

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

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

Calculation

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

Factor = LISN VDF + Cable Loss + 10dB Attenuation(Limiter)

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:

Over Limit = Level - Limit
Level = Read Level + Factor

Test Data

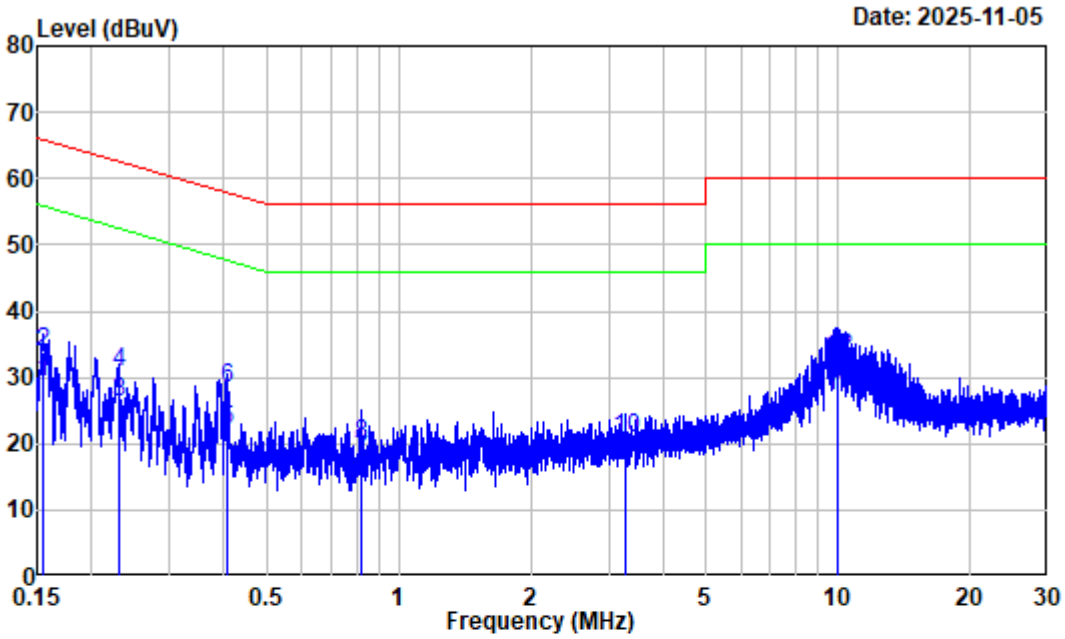
Environmental Conditions

Temperature:	24.7℃
Relative Humidity:	41 %
ATM Pressure:	101.1 kPa
TestEngineer:	Ronour Huang
TestDate:	2025-11-05
EUT Operation Mode:	2.4G SRD Transmitting

Test Result: Compliance, please refer to the below data.

Note: The maximum output power mode and channel: 2.4G SRD Low Channel was tested.

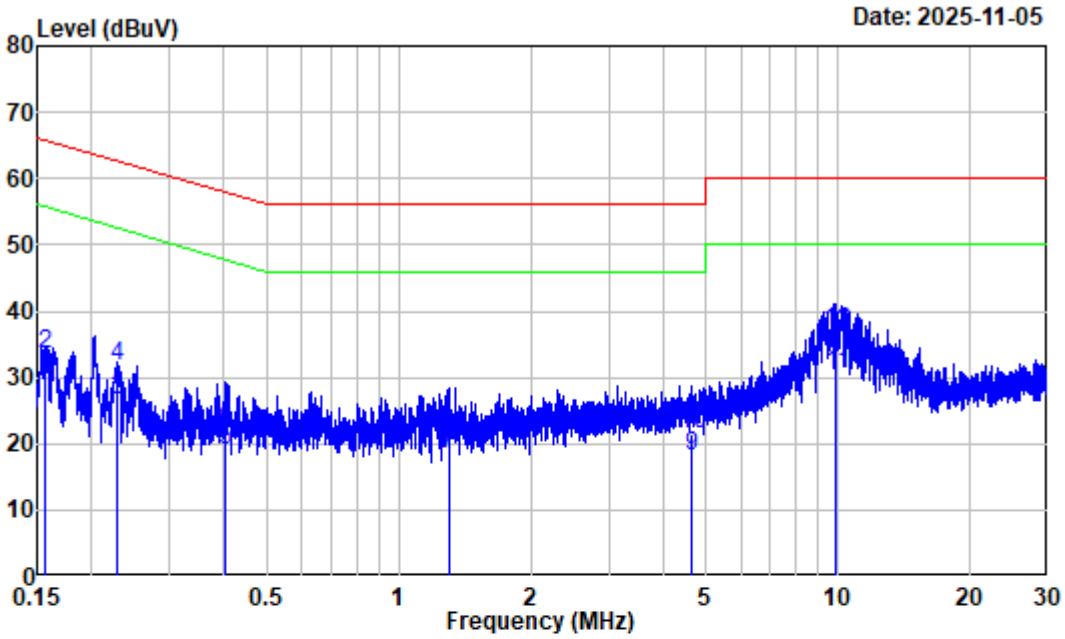
AC 120V/60Hz, Line:



Site : Shielding Room
Condition : Line
Job No. : 2504Y17236E-RF Tester:Ronour Huang
Test Mode : 2.4G SRD Transmitting
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	19.95	9.33	29.28	55.72	-26.44	Average
2	0.155	19.95	13.89	33.84	65.72	-31.88	QP
3	0.230	19.97	6.15	26.12	52.46	-26.34	Average
4	0.230	19.97	10.88	30.85	62.46	-31.61	QP
5	0.408	20.03	2.12	22.15	47.69	-25.54	Average
6	0.408	20.03	8.34	28.37	57.69	-29.32	QP
7	0.818	20.20	-2.69	17.51	46.00	-28.49	Average
8	0.818	20.20	-0.35	19.85	56.00	-36.15	QP
9	3.267	21.21	-3.82	17.39	46.00	-28.61	Average
10	3.267	21.21	-0.31	20.90	56.00	-35.10	QP
11	9.966	22.77	4.42	27.19	50.00	-22.81	Average
12	9.966	22.77	10.06	32.83	60.00	-27.17	QP

AC 120V/60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Job No. : 2504Y17236E-RF Tester:Ronour Huang
Test Mode : 2.4G SRD Transmitting
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	19.85	9.78	29.63	55.65	-26.02	Average
2	0.156	19.85	13.51	33.36	65.65	-32.29	QP
3	0.228	19.93	6.52	26.45	52.51	-26.06	Average
4	0.228	19.93	11.75	31.68	62.51	-30.83	QP
5	0.403	19.99	-0.99	19.00	47.80	-28.80	Average
6	0.403	19.99	2.11	22.10	57.80	-35.70	QP
7	1.296	20.63	-2.36	18.27	46.00	-27.73	Average
8	1.296	20.63	0.03	20.66	56.00	-35.34	QP
9	4.647	21.57	-3.54	18.03	46.00	-27.97	Average
10	4.647	21.57	0.01	21.58	56.00	-34.42	QP
11	9.913	22.88	7.75	30.63	50.00	-19.37	Average
12	9.913	22.88	13.83	36.71	60.00	-23.29	QP

RADIATED EMISSIONS

Applicable Standard

FCC§15.205, §15.209 & §15.249(d)

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

RSS-GEN§8.10, RSS-210 Annex B.10

According to RSS-210 Annex B.10,
a. The field strength of fundamental and harmonic emissions measured at the distance of 3 m shall not exceed the limits in table B2.

Table B2: Field strength limits for fundamental and harmonic emissions		
Fundamental frequency (MHz)	**Field strength (mV/m) of fundamental emissions**	**Field strength (mV/m) of harmonic emissions**
902-928	50	0.5
2400-2483.5	50	0.5
5725-5875	50	0.5
24000-24250	250	2.5

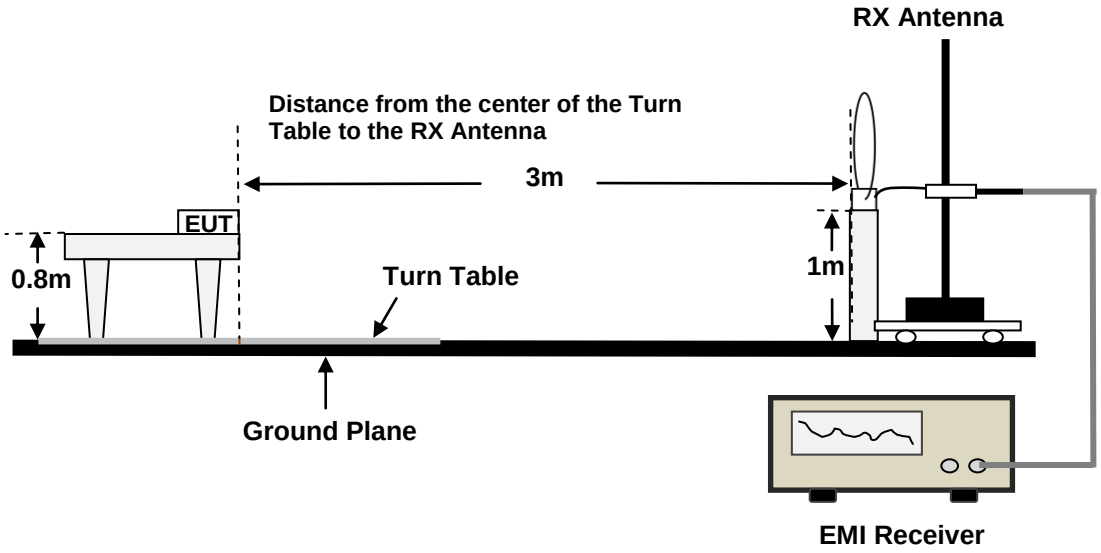
The field strength shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.

b. Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emission or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

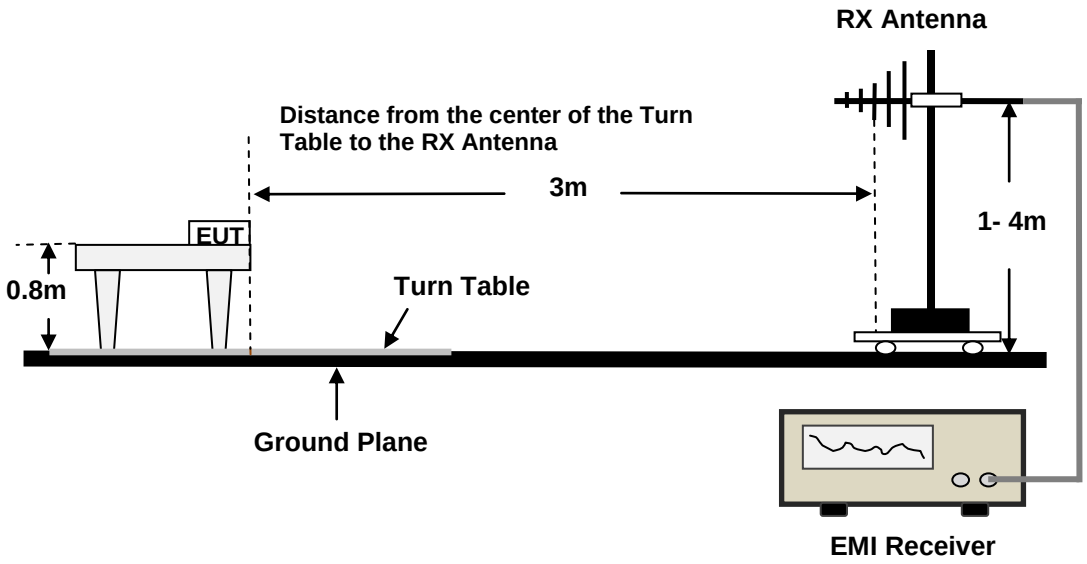
c. The provisions of RSS-Gen regarding pulsed operation do not apply to measurements performed in the 902-928 MHz frequency range.

EUT Setup

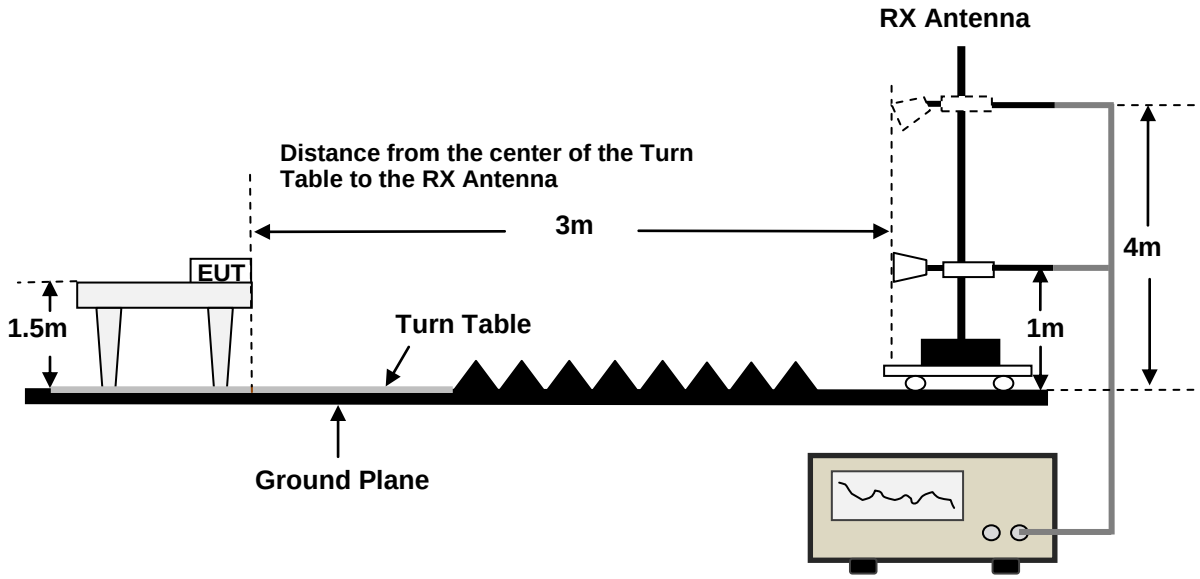
9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:



The radiated emission and out of band emission tests were performed in the 3meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205, FCC 15.249 and RSS-Gen limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz - 1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9kHz - 150kHz	PK	0.3kHz	1kHz	/	PK
	QP/AV	/	/	200Hz	QP/AV
150kHz - 30MHz	PK	10kHz	30kHz	/	PK
	QP/AV	/	/	9kHz	QP/AV
30MHz - 1000MHz	PK	100kHz	300kHz	/	PK
	QP	/	/	120kHz	QP

1GHz -25GHz:
Pre-scan:

Measurement	Detector	RBW	Video B/W
PK	Peak	1MHz	3MHz
Ave.	Peak	1MHz	5kHz

Final measurement for emission identified during the pre-scan:

Measurement	Detector	RBW	Video B/W
PK	Peak	1MHz	3MHz
Ave.	Peak	1MHz	10Hz

Note 1: The 4GHz-18GHz testing use high-pass filter.
Note 2: The band edge testing use 10dB attenuator.
Note 3: The filters and attenuators are all integrated within the filter switch unit.

Test Procedure

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

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

According to ANSI C63.10-2020, 9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{SpecLimit} = E_{Meas} + 20\log\left(\frac{D_{Meas}}{D_{SpecLimit}}\right)$$

where

$E_{\mathrm{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dBuV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBuV/m
D_{Meas}	is the measurement distance, in m
$D_{\mathrm{SpecLimit}}$	is the distance specified by the limit, in m

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.
Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Field Strength of Average according to ANSI C63.10-2020 7.8.8.2
The average value may be determined as follows:
a) From the peak value of the emission: The measured peak value in dBuV/m is corrected by 20log(maximum dwell time in 100 ms / 100).

Calculation

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

Factor = Antenna Factor + Cable Loss - 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:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Pre-scan in the X, Y and Z axes of orientation, the worst case as setup photos was recorded.

9kHz-1GHz

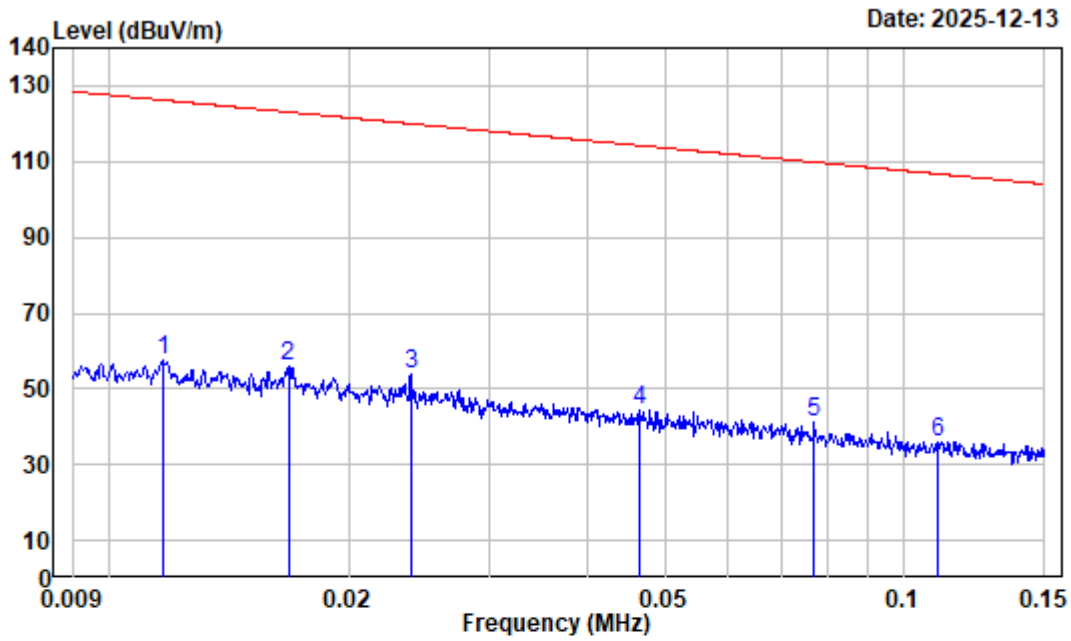
Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	59%
ATM Pressure:	100.9kPa
Test Engineer:	Colin Lin
Test Date:	2025-12-13
EUT Operation Mode:	Transmitting

Test Result: Compliance, please refer to the below data.

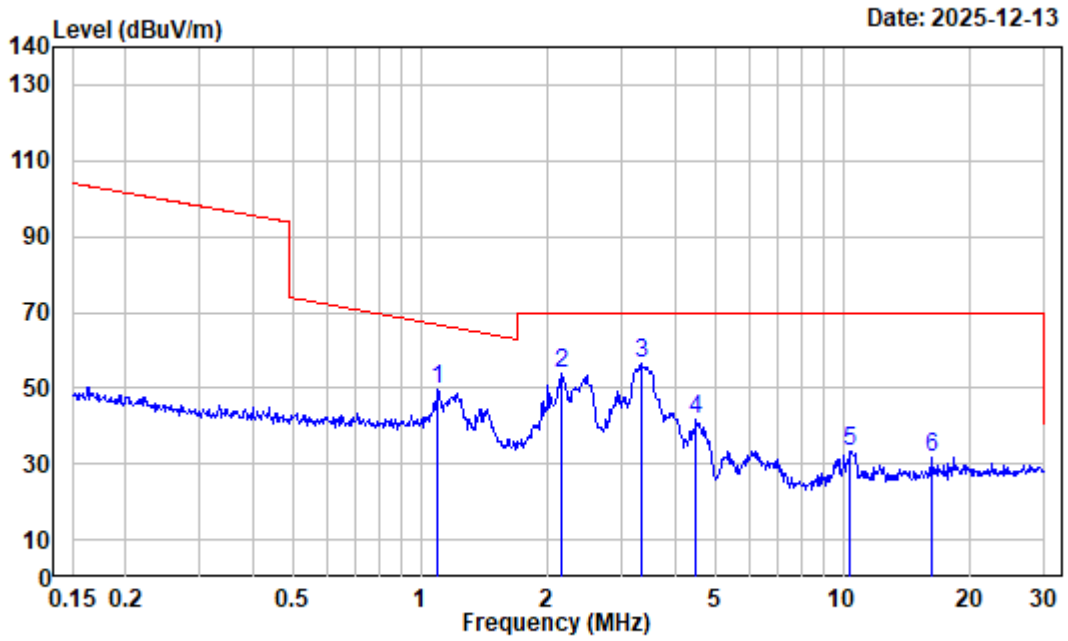
Note: The maximum output power mode and channel: 2.4G SRD Low Channel was tested.

9kHz~30MHz:



Site : chamber
Condition : 3m
Job No. : 2504Y17236E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4GHz SRD Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

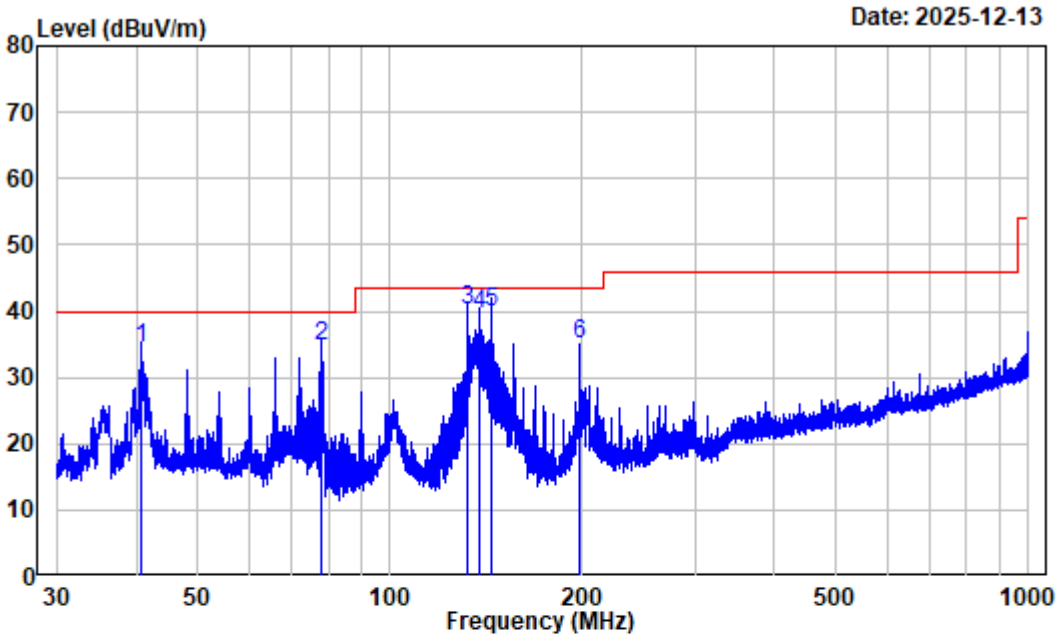
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	35.08	22.76	57.84	126.25	-68.41	Peak
2	0.017	32.81	23.12	55.93	123.09	-67.16	Peak
3	0.024	29.63	24.01	53.64	120.02	-66.38	Peak
4	0.047	23.53	20.92	44.45	114.25	-69.80	Peak
5	0.077	18.96	22.13	41.09	109.87	-68.78	Peak
6	0.110	15.97	20.20	36.17	106.75	-70.58	Peak



Site : chamber
Condition : 3m
Job No. : 2504Y17236E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4GHz SRD Transmitting
Receiver Setting: RBW:10kHz VBW:30kHz

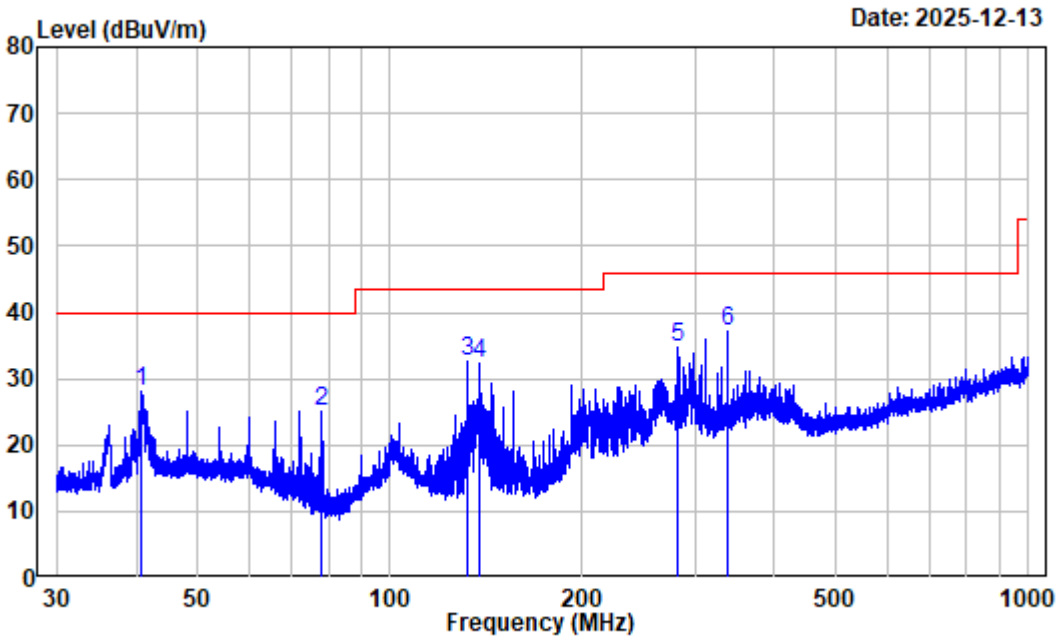
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.100	-2.19	51.95	49.76	66.63	-16.87	Peak
2	2.167	-5.45	59.54	54.09	69.54	-15.45	Peak
3	3.346	-5.99	62.61	56.62	69.54	-12.92	Peak
4	4.501	-6.30	48.26	41.96	69.54	-27.58	Peak
5	10.397	-5.25	38.65	33.40	69.54	-36.14	Peak
6	16.226	-3.86	35.73	31.87	69.54	-37.67	Peak

30MHz~1GHz:



Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Y17236E-RF Tester: Colin Lin
Test Mode : 2.4GHz SRD Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.702	-10.45	44.84	34.39	40.00	-5.61	QP
2	78.173	-16.55	51.41	34.86	40.00	-5.14	QP
3	132.337	-14.63	54.85	40.22	43.50	-3.28	QP
4	138.327	-14.94	54.36	39.42	43.50	-4.08	QP
5	144.335	-14.95	54.80	39.85	43.50	-3.65	QP
6	198.501	-10.35	45.40	35.05	43.50	-8.45	Peak



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Y17236E-RF Tester: Colin Lin
Test Mode : 2.4GHz SRD Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.737	-10.45	38.54	28.09	40.00	-11.91	Peak
2	78.139	-16.54	41.74	25.20	40.00	-14.80	Peak
3	132.337	-14.63	47.31	32.68	43.50	-10.82	Peak
4	138.327	-14.94	47.23	32.29	43.50	-11.21	Peak
5	282.737	-9.20	43.93	34.73	46.00	-11.27	Peak
6	336.772	-7.27	44.51	37.24	46.00	-8.76	Peak

1GHz-25GHz

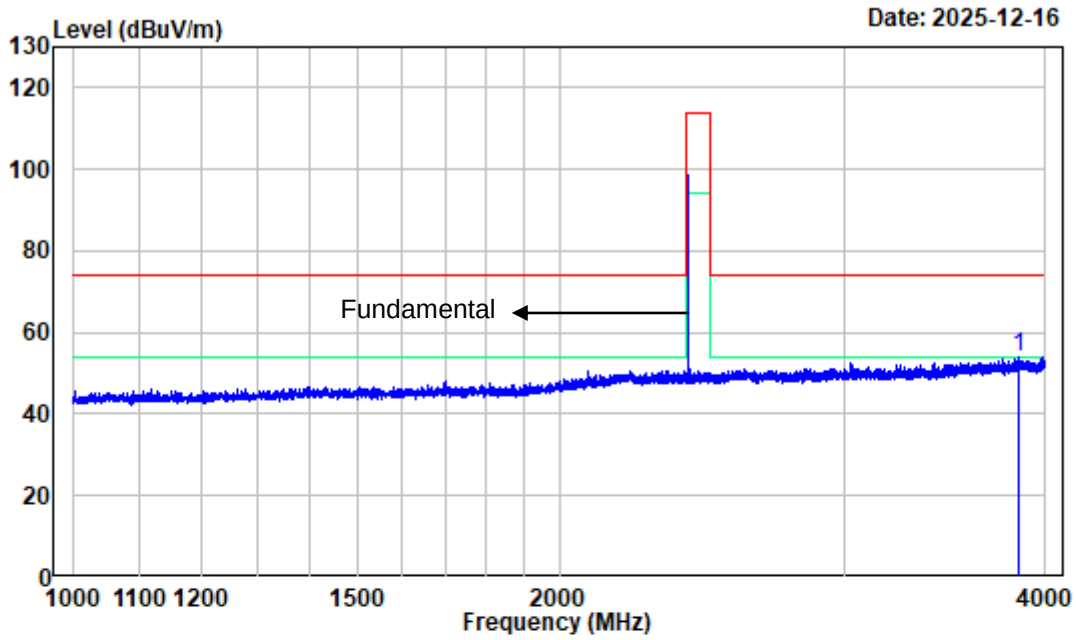
Environmental Conditions

Item:	RSE Above 1GHz	Duty Cycle
Temperature:	25.2 ℃	25.7 ℃
Relative Humidity:	53 %	53 %
ATM Pressure:	100.9kPa	100.9kPa
TestEngineer:	Angel Chen	Angel Chen
TestDate:	2025-12-16	2025-12-16
EUT Operation Mode:	Transmitting	Transmitting

Test Result: Compliance, please refer to the below data.

Note : For 18GHz-25GHz, the maximum output power mode and channel: 2.4G SRD Low Channel was tested.

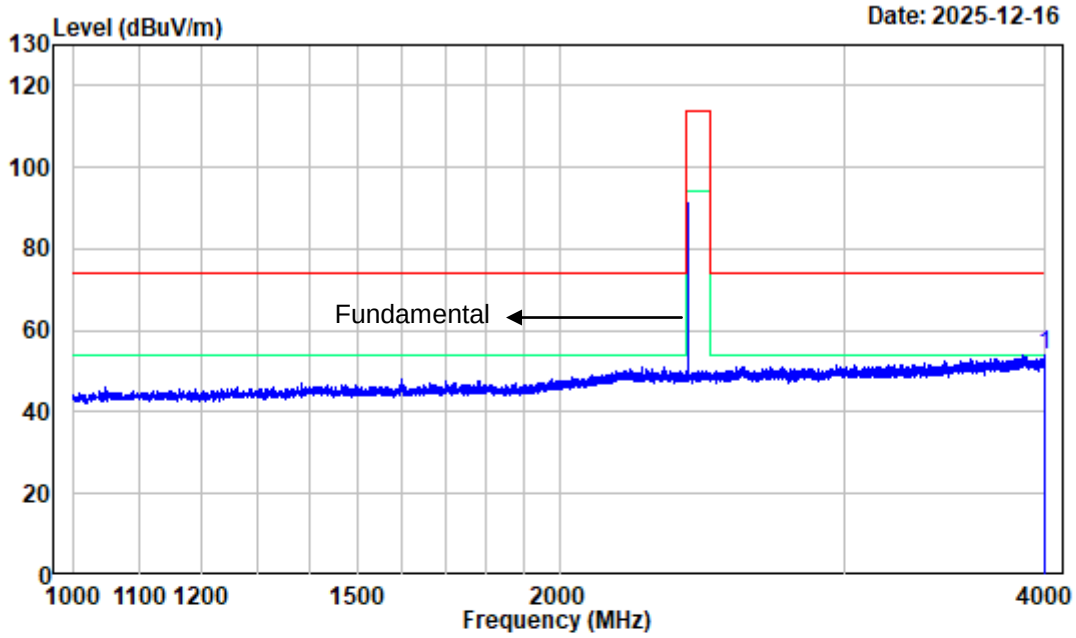
2.4G SRD Low Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3852.250	-8.21	62.16	53.95	74.00	-20.05	Peak

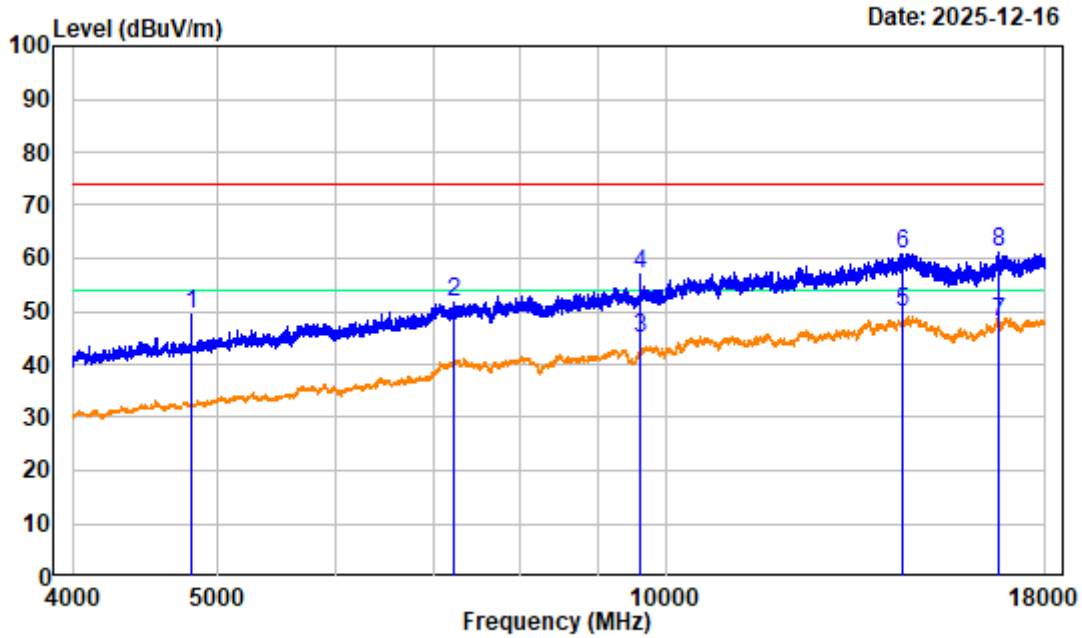
2.4G SRD Low Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3995.500	-8.13	62.11	53.98	74.00	-20.02	Peak

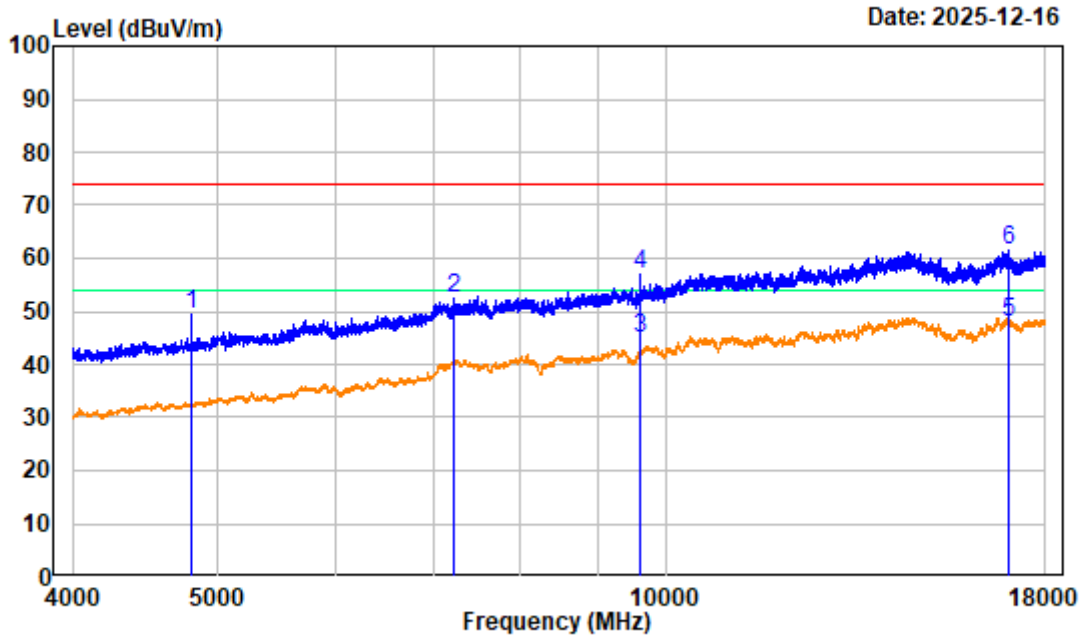
2.4G SRD Low Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4810.250	-6.64	56.05	49.41	74.00	-24.59	Peak
2	7214.750	-1.35	53.02	51.67	74.00	-22.33	Peak
3	9619.250	1.70	43.15	44.85	54.00	-9.15	Average
4	9619.250	1.70	55.15	56.85	74.00	-17.15	Peak
5	14431.750	8.47	41.44	49.91	54.00	-4.09	Average
6	14431.750	8.47	52.45	60.92	74.00	-13.08	Peak
7	16752.250	7.78	40.12	47.90	54.00	-6.10	Average
8	16752.250	7.78	53.48	61.26	74.00	-12.74	Peak

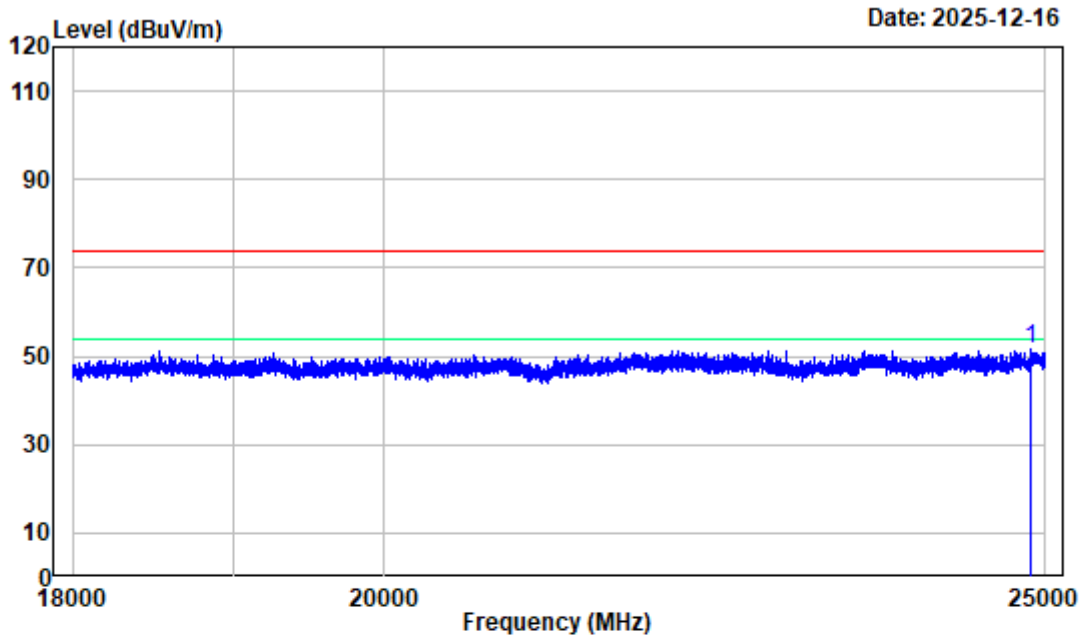
2.4G SRD Low Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4808.500	-6.64	56.01	49.37	74.00	-24.63	Peak
2	7214.750	-1.35	53.66	52.31	74.00	-21.69	Peak
3	9621.000	1.70	43.20	44.90	54.00	-9.10	Average
4	9621.000	1.70	55.17	56.87	74.00	-17.13	Peak
5	17009.500	7.60	40.21	47.81	54.00	-6.19	Average
6	17009.500	7.60	53.78	61.38	74.00	-12.62	Peak

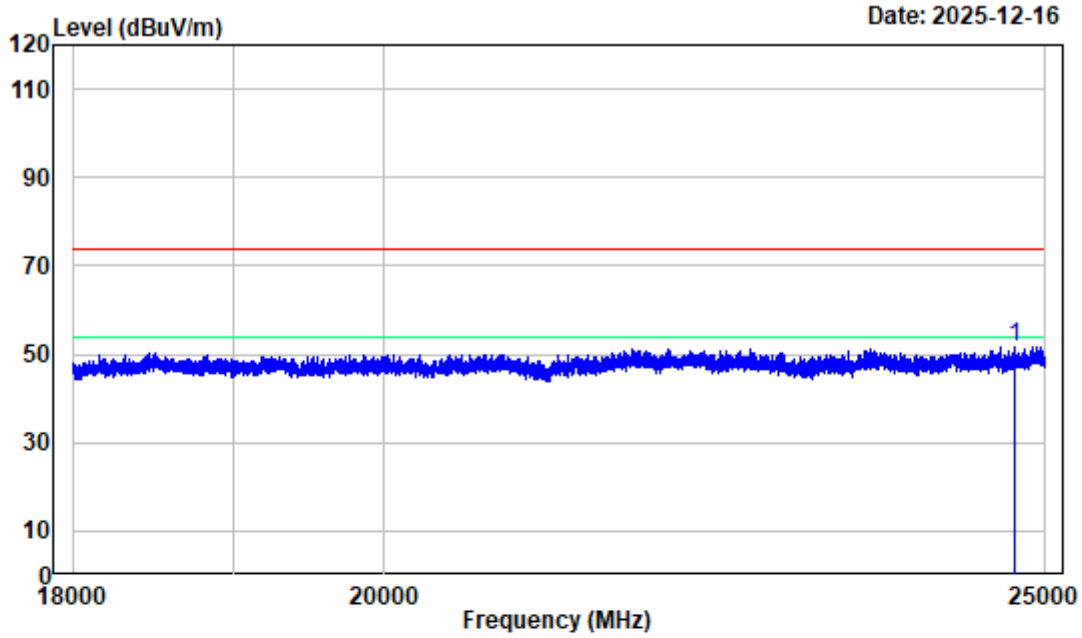
2.4G SRD Low Channel 18GHz-25GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 18GHz-25GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	24879.250	4.05	47.41	51.46	74.00	-22.54	Peak

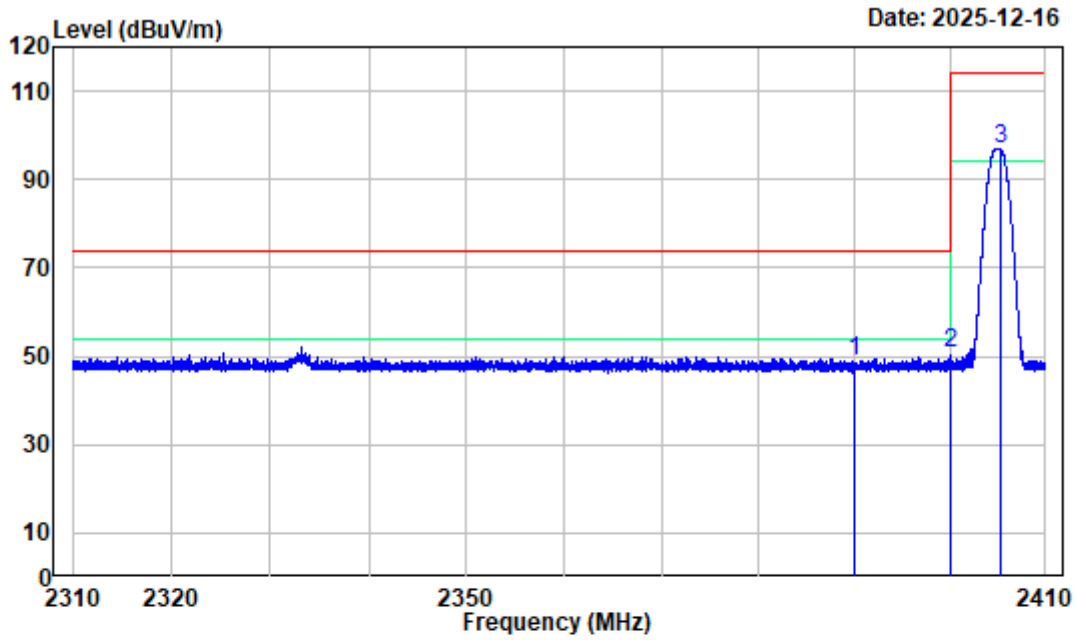
2.4G SRD Low Channel 18GHz-25GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz 18GHz-25GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	24750.630	3.75	48.03	51.78	74.00	-22.22	Peak

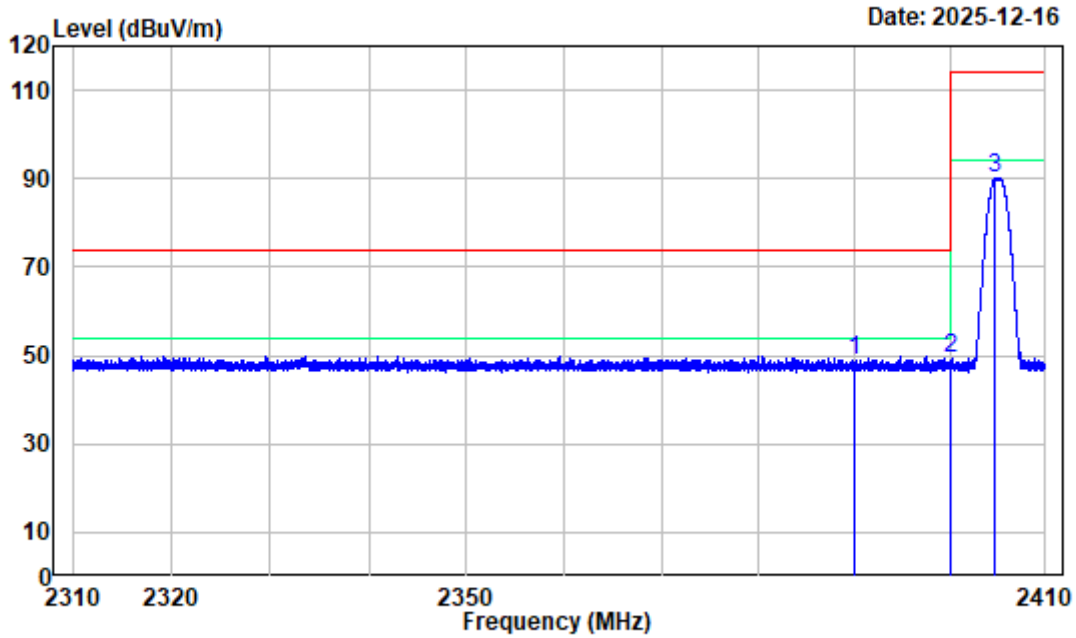
2.4G SRD Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.25	59.29	49.04	74.00	-24.96	peak
2	2400.000	-10.29	61.19	50.90	74.00	-23.10	peak
3	2405.238	-10.27	107.27	97.00	114.00	-17.00	Peak

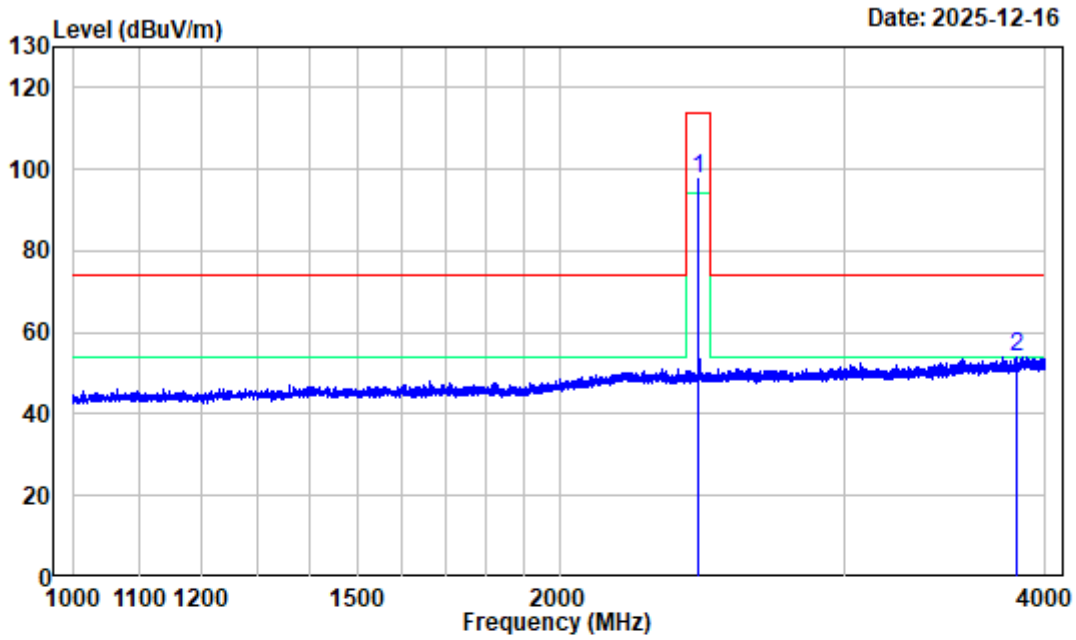
2.4G SRD Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Low Channel 2405MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.25	58.97	48.72	74.00	-25.28	peak
2	2400.000	-10.29	59.62	49.33	74.00	-24.67	peak
3	2404.762	-10.28	100.28	90.00	114.00	-24.00	Peak

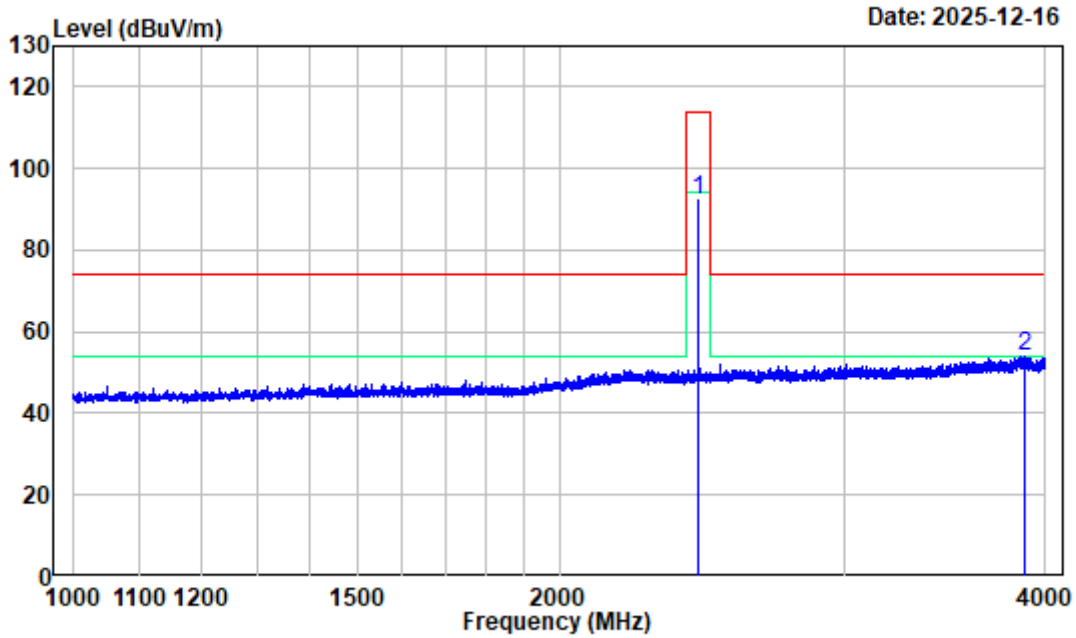
2.4G SRD Middle Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Middle Channel 2440MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2440.375	-10.20	107.81	97.61	114.00	-16.39	Peak
2	3844.375	-8.26	62.22	53.96	74.00	-20.04	Peak

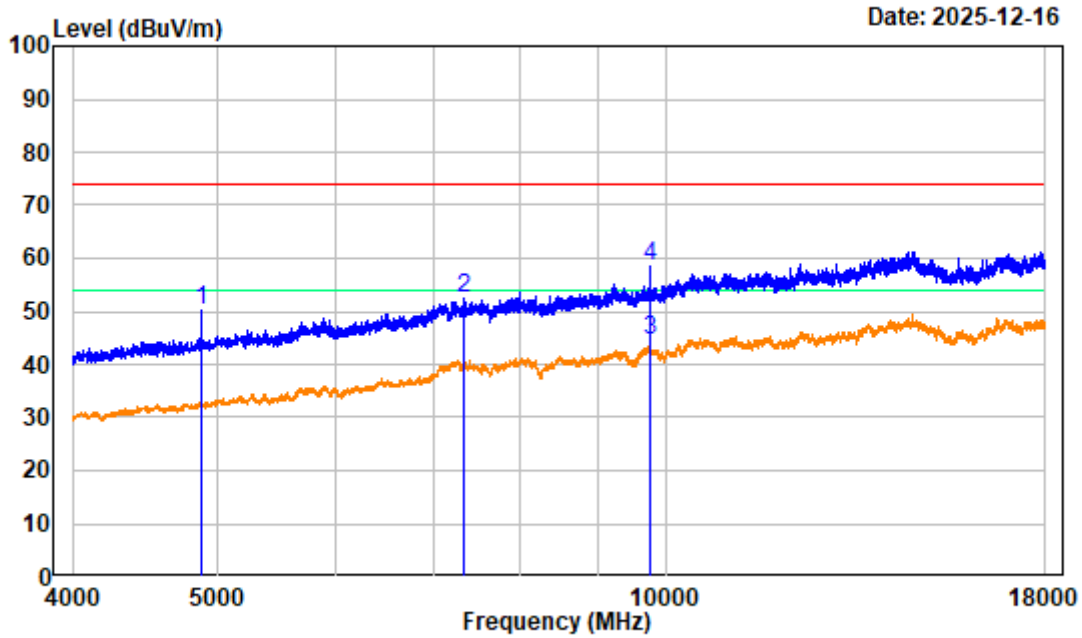
2.4G SRD Middle Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Middle Channel 2440MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2440.375	-10.20	102.32	92.12	114.00	-21.88	Peak
2	3880.750	-8.02	61.98	53.96	74.00	-20.04	Peak

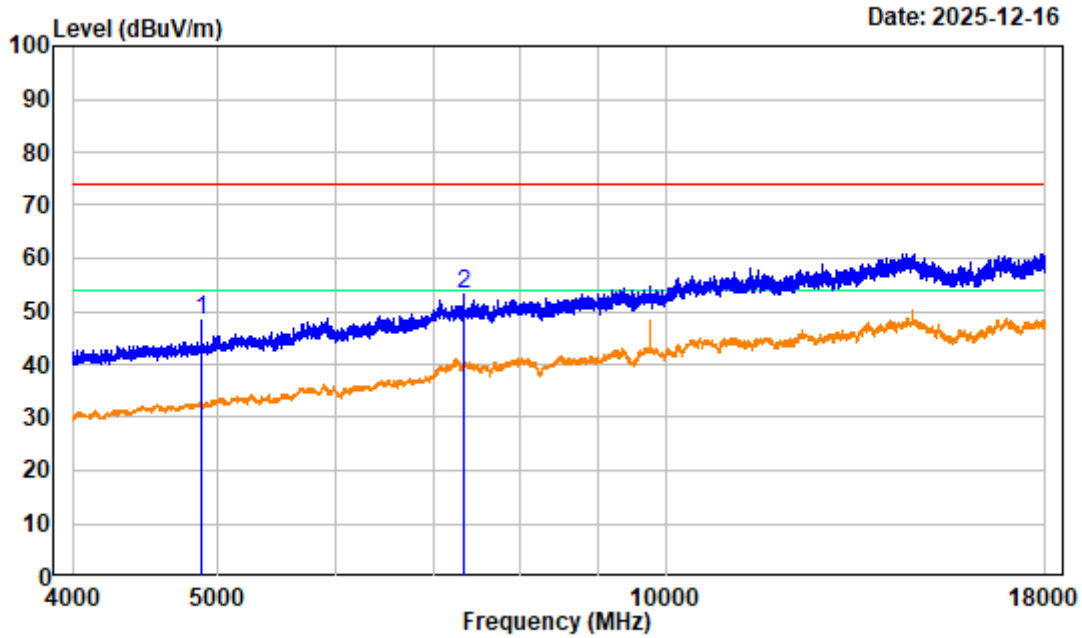
2.4G SRD Middle Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Middle Channel 2440MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	-6.57	56.93	50.36	74.00	-23.64	Peak
2	7320.000	-1.16	53.53	52.37	74.00	-21.63	Peak
3	9761.000	1.95	42.40	44.35	54.00	-9.65	Average
4	9761.000	1.95	56.39	58.34	74.00	-15.66	Peak

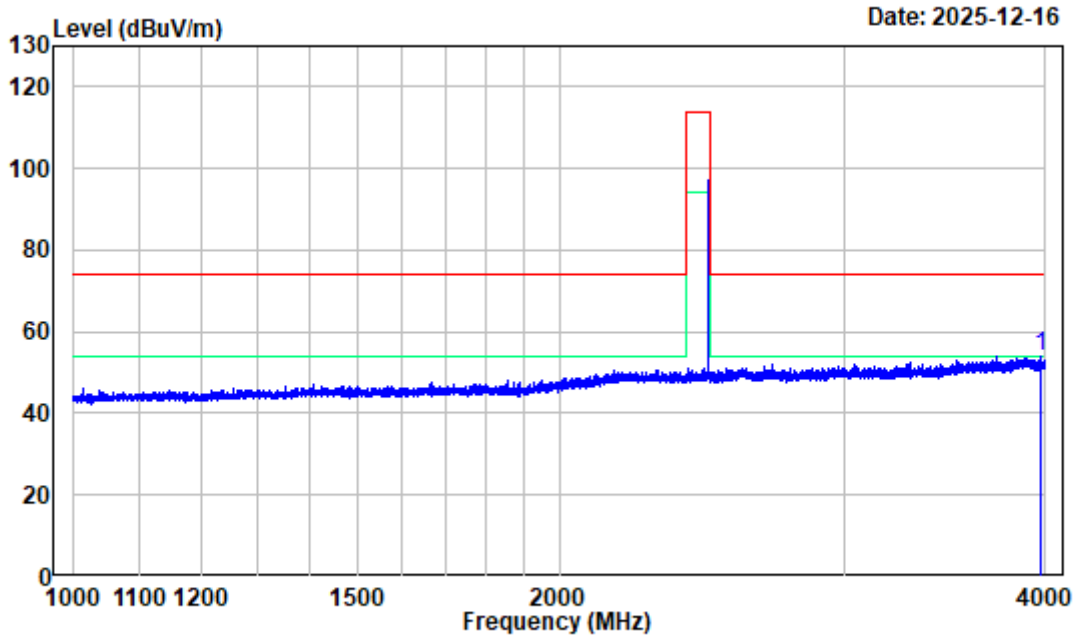
2.4G SRD Middle Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD Middle Channel 2440MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	-6.57	54.84	48.27	74.00	-25.73	Peak
2	7320.000	-1.16	54.41	53.25	74.00	-20.75	Peak

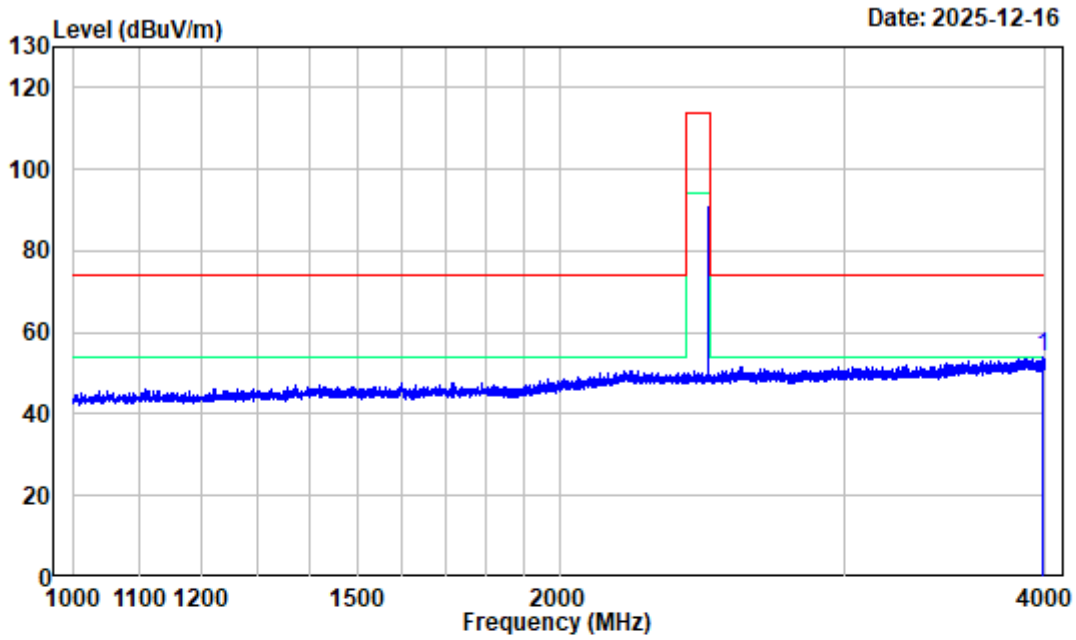
2.4G SRD High Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3969.250	-8.32	62.20	53.88	74.00	-20.12	Peak

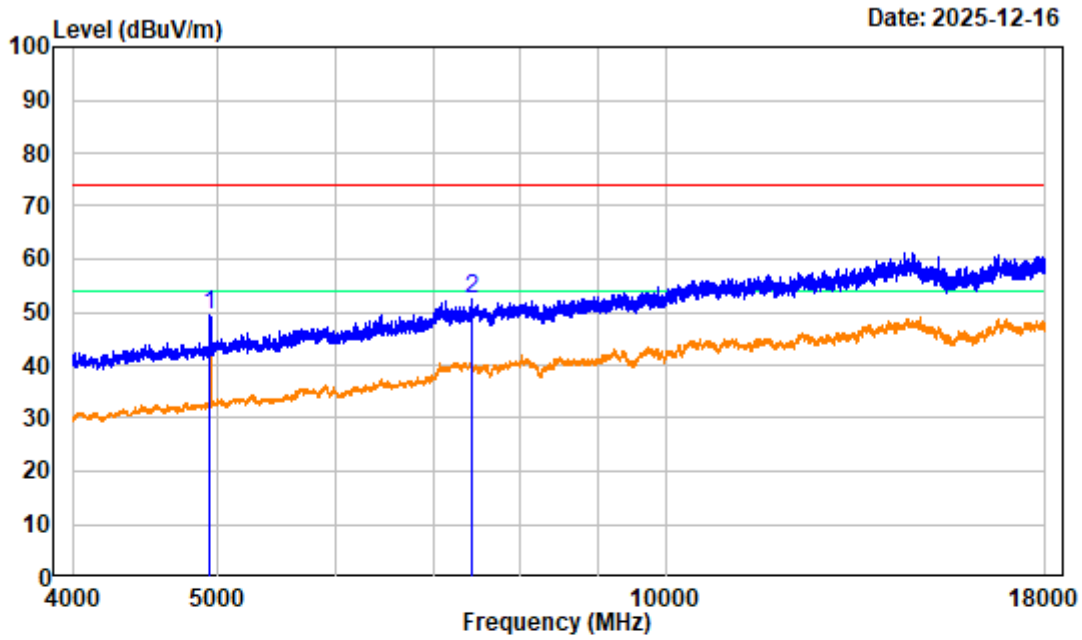
2.4G SRD High Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3988.750	-8.17	62.06	53.89	74.00	-20.11	Peak

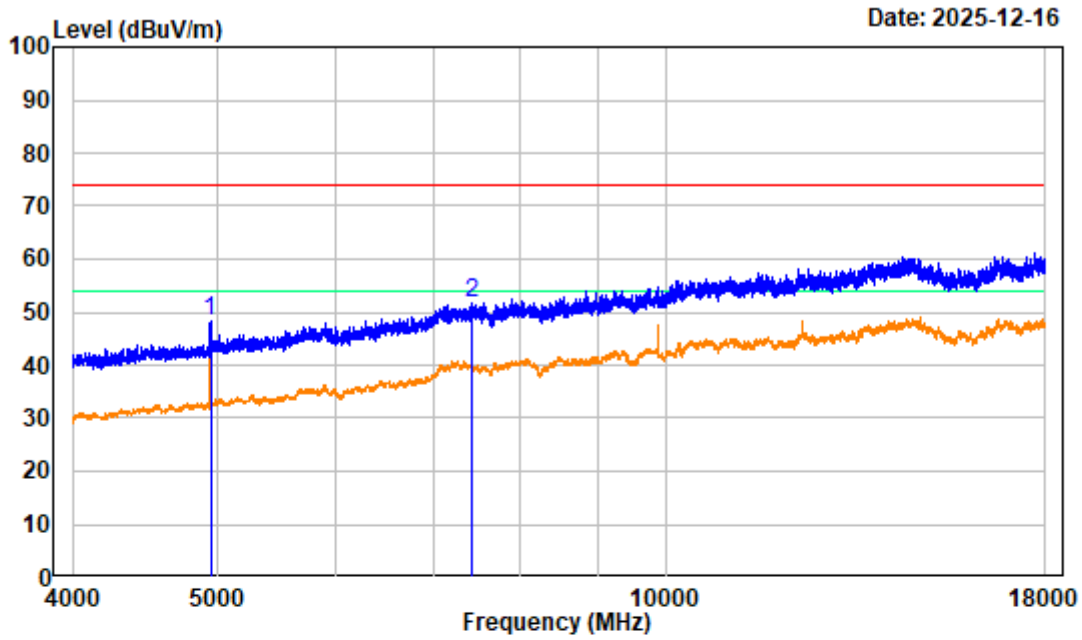
2.4G SRD High Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4948.500	-6.42	55.72	49.30	74.00	-24.70	Peak
2	7424.750	-1.10	53.64	52.54	74.00	-21.46	Peak

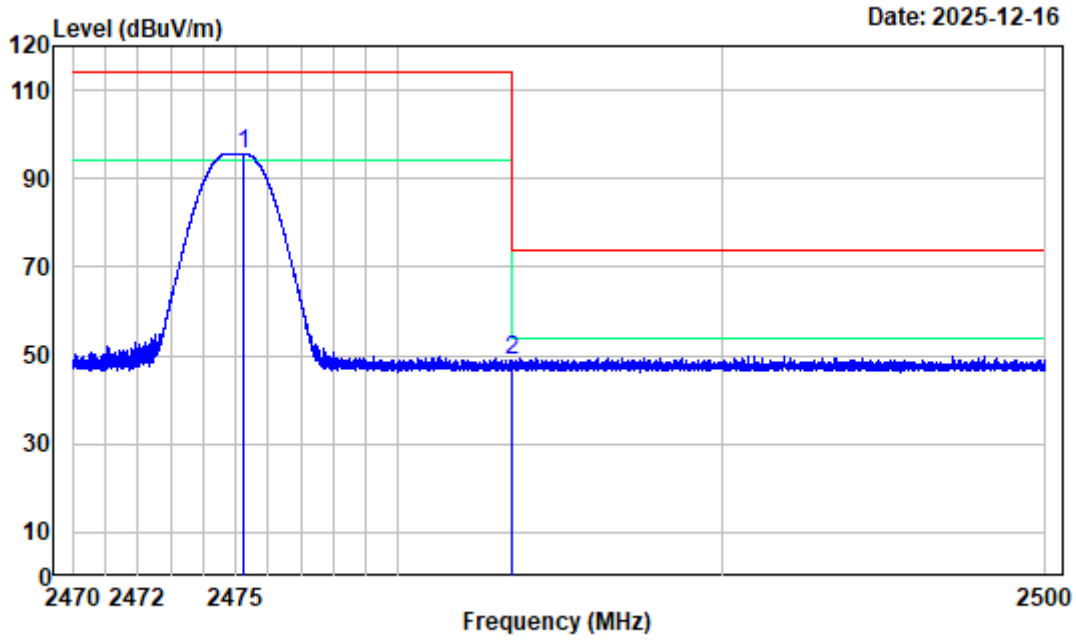
2.4G SRD High Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4950.250	-6.41	54.79	48.38	74.00	-25.62	Peak
2	7424.750	-1.10	52.88	51.78	74.00	-22.22	Peak

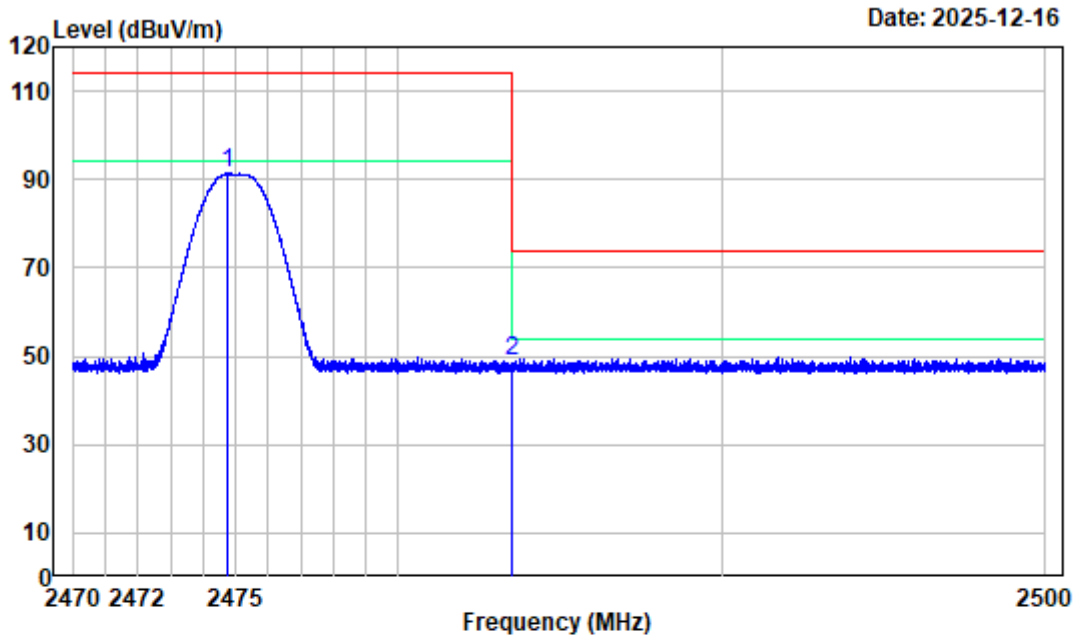
2.4G SRD High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2475.250	-10.23	105.98	95.75	114.00	-18.25	Peak
2	2483.500	-10.23	59.36	49.13	74.00	-24.87	peak

2.4G SRD High Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Y17236E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 2.4G SRD High Channel 2475MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2474.748	-10.21	101.54	91.33	114.00	-22.67	Peak
2	2483.500	-10.23	59.26	49.03	74.00	-24.97	peak

Field Strength of Average							
Frequency (MHz)	Peak Measurement @3m (dBμV/m)	Polar (H/V)	Duty Cycle Correction Factor (dB)	Corrected Ampitude (dBμV/m)	FCC Part 15.249/RSS-210		
					Limit (dBμV/m)	Margin (dB)	Comment
2405.238	97.00	H	-33.91	63.09	94.00	-30.91	Low Channel
2404.762	90.00	V	-33.91	56.09	94.00	-37.91	Low Channel
2440.375	97.61	H	-33.91	63.70	94.00	-30.30	Middle Channel
2440.375	92.12	V	-33.91	58.21	94.00	-35.79	Middle Channel
2475.250	95.75	H	-33.91	61.84	94.00	-32.16	High Channel
2474.748	91.33	V	-33.91	57.42	94.00	-36.58	High Channel

Note 1: Average Amplitude= Peak Measurement + Duty Cycle Factor
Note 2: Margin= Average Corrected Ampitude-Limit

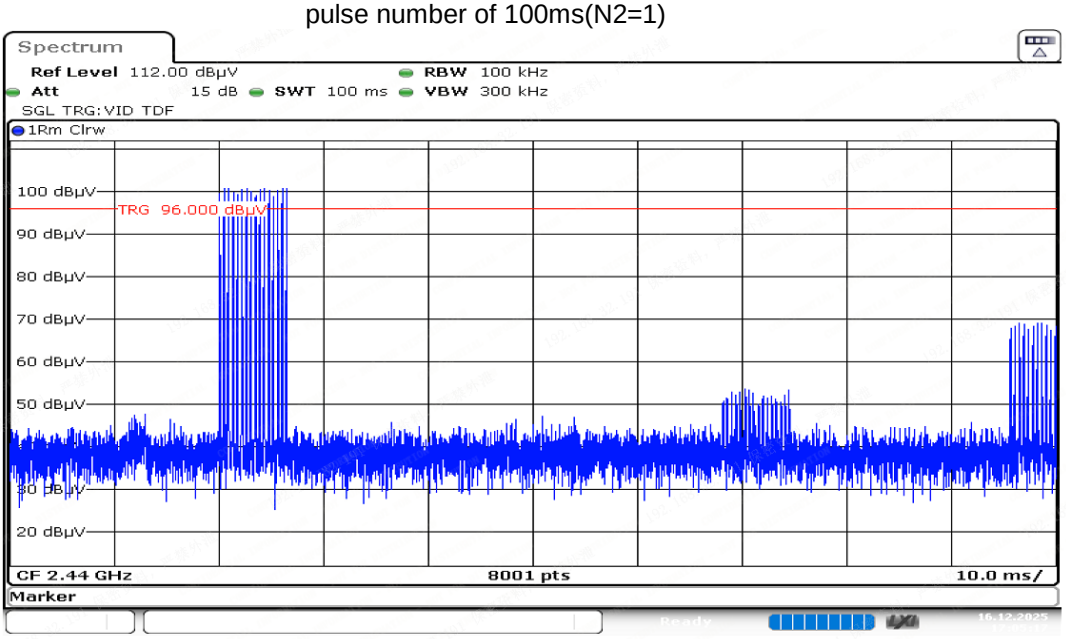
Duty Cycle

Number of one pulse (N1)	Ton Duration (ms)	Number of pulse (N2)	Total on time (ms)	Period of the pulse train (ms)	Duty Cycle (%)
16	0.12594	1	2.01504	100	2.01504
Duty cycle Factor(dB)		-33.91			

Note 1: Total on time=Ton1*N1*N2=0.12594*16*1=2.01504ms
Note 2: Duty Cycle=(Total on time)/Tp=2.01504/100=0.0201504=2.01504%
Note 3: Duty cycle Factor=20*log(Duty Cycle)=20*log(0.0201504)= -33.91

Test plots

pulse number of 100ms(N2=1)



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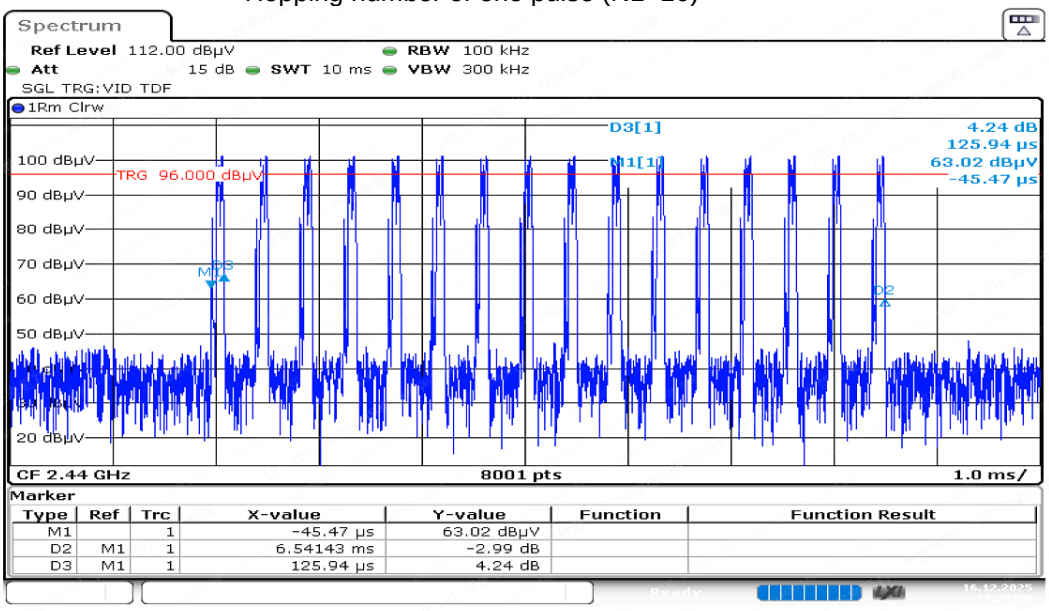
Date: 16.DEC.2025 17:05:17

Hopping number of one pulse (N1=16)



ProjectNo.:2504Y17236E-RF Tester:Angel Chen
Date: 16.DEC.2025 17:23:29

20DB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

Applicable Standard

According to FCC§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.

According to RSS-Gen §6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.
In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.
For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Procedure

According to ANSI C63.10-2020, section 6.9.

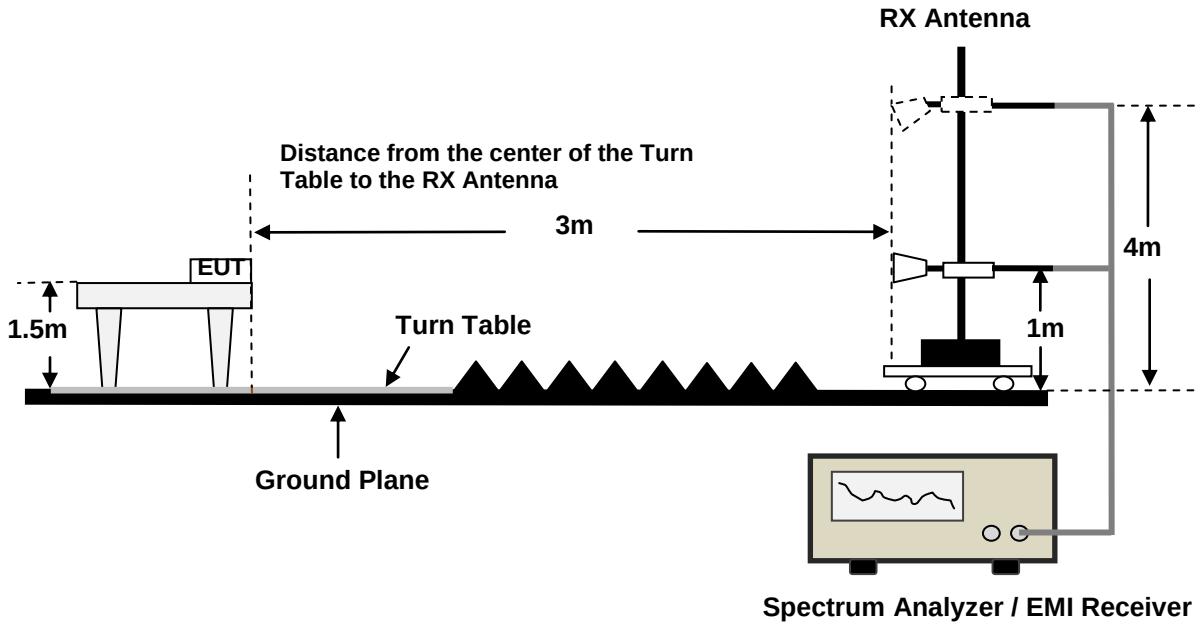
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

3. Measure the frequency difference of two frequencies that indicated 20dBbandwidth or Use 99% OBW test function to test the 99% OBW bandwidth.

4. Repeat above procedures until all frequencies measured were complete.

EUT Setup



Test Data

Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	46 %
ATM Pressure:	100.7 kPa

The testing was performed by Cayde Hou on 2025-10-28.

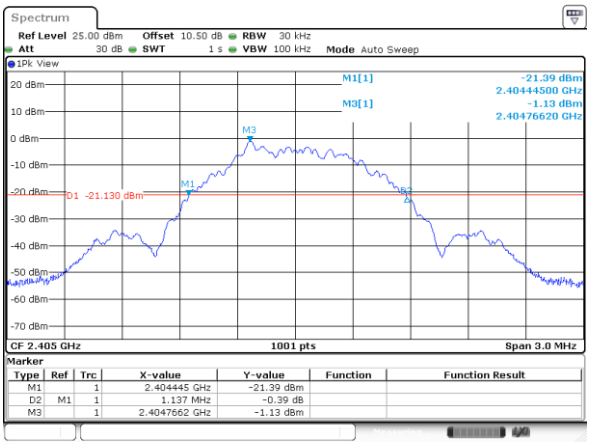
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the data.

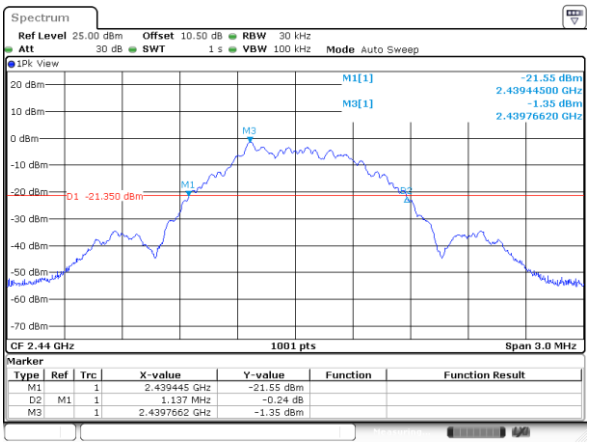
20 dB Emission Bandwidth

Mode	Channel	Result (MHz)
SRD	Low	1.137
	Middle	1.137
	High	1.137

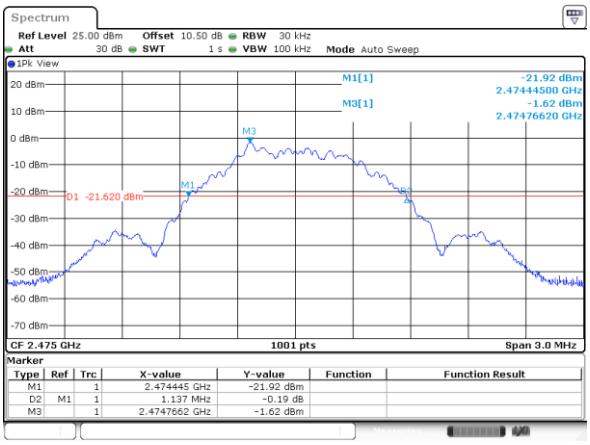
SRD_Low



SRD_Middle



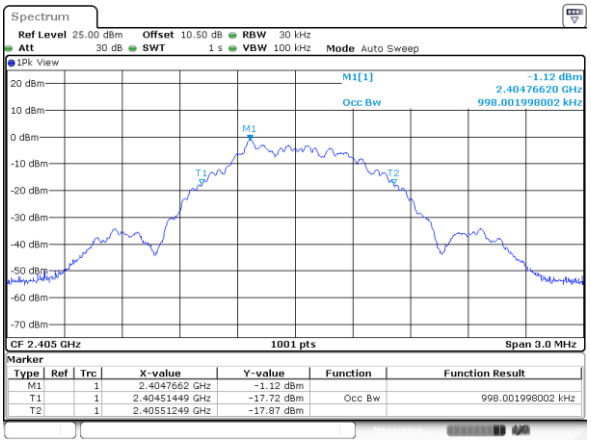
SRD_High



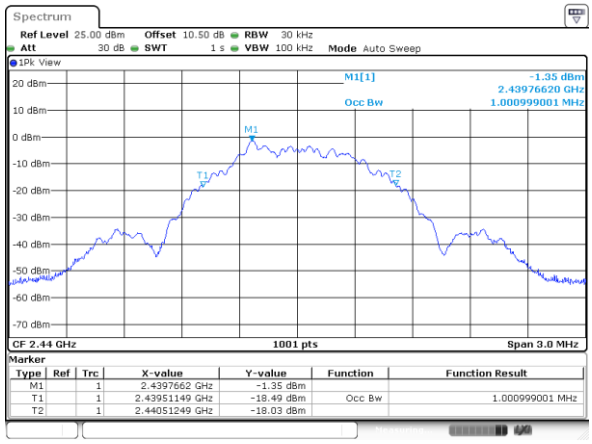
99% Occupied Bandwidth

Mode	Channel	99% OBW (MHz)
SRD	Low	0.998
	Middle	1.001
	High	1.004

SRD_Low



SRD_Middle



SRD_High

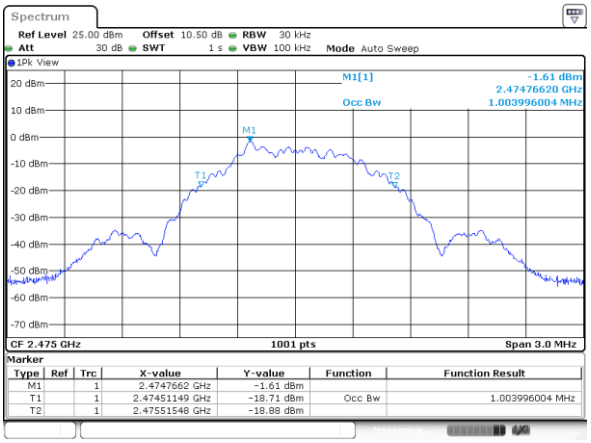


EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Y17236E-RF EUT External Photos and Attachment No.2 2504Y17236E-RF EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.4 2504Y17236E-RFB Test Photos.

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