

# TEST REPORT

Applicant Name : Shenzhen Ipetmon Creative Technology Co., Ltd.  
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Report Number : 2504V05608E-RF-00A  
FCC ID: 2A4A7-PTM-40A1

## Test Standard (s)

FCC PART 15.247

## Sample Description

Product Type: Automatic Pet Feeder  
Model No.: PTM-40A1  
Trade Mark: N/A  
Date Received: 2025-07-04  
Date of Test: 2025-07-11 to 2025-08-03  
Report Date: 2025-08-07

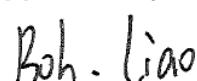
Test Result:	The EUT complied with the standards above.
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### Prepared and Checked By:



Matt Liang  
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	2504V05608E-RF-00A	Original Report	2025-08-07

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	Automatic Pet Feeder
Tested Model	PTM-40A1
Voltage Range <sup>#</sup>	DC 5V from adapter 4 x 1.5V LR6AA Battery (not included) for backup
Adapter Information <sup>#</sup>	Model: TPA-418G050100UU01 Input: 100-240V~, 50/60Hz 0.3A Output: 5.0V ---1.0A 5.0W

Frequency Range	BLE 1M: 2402-2480MHz
Maximum Conducted Peak Output Power	7.19dBm
Modulation Technique	GFSK
Antenna Specification <sup>#</sup>	1.95dBi(It is provided by the applicant.)
Sample Serial Number	365Y-1 (For CE&RE Test), 34RF-1 (For RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

## Objective

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

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB 558074 D01 15.247 Meas Guidance v05r02.

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.

## Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	5 %	
RF Frequency	$0.064 \times 10^{-7}$	
RF output power, conducted	0.3 dB	
Unwanted Emission, conducted	1.2 dB	
AC Power Lines Conducted Emissions	2.7 dB	
Emissions, Radiated	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
Temperature	1 °C	
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).

For BLE, 40 channels are provided to testing:

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

EUT was tested with Channel 0, 19 and 39.

Note: The device has two power supply options: adapter power and dry cell battery power. Radiated Spurious Emissions(Below 1GHz) is tested both power supply modes, while Radiated Spurious Emissions(Above 1GHz) is used only tested for the adapter power supply mode.

### EUT Exercise Software and Power Level<sup>#</sup>

Exercise Software:	RTLTAPP V5.2.2.40
Power Level:	BLE 1M:0x19

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.

### Duty Cycle

**Test result:** Please refer to Appendix.

#### Support Equipment List and Details

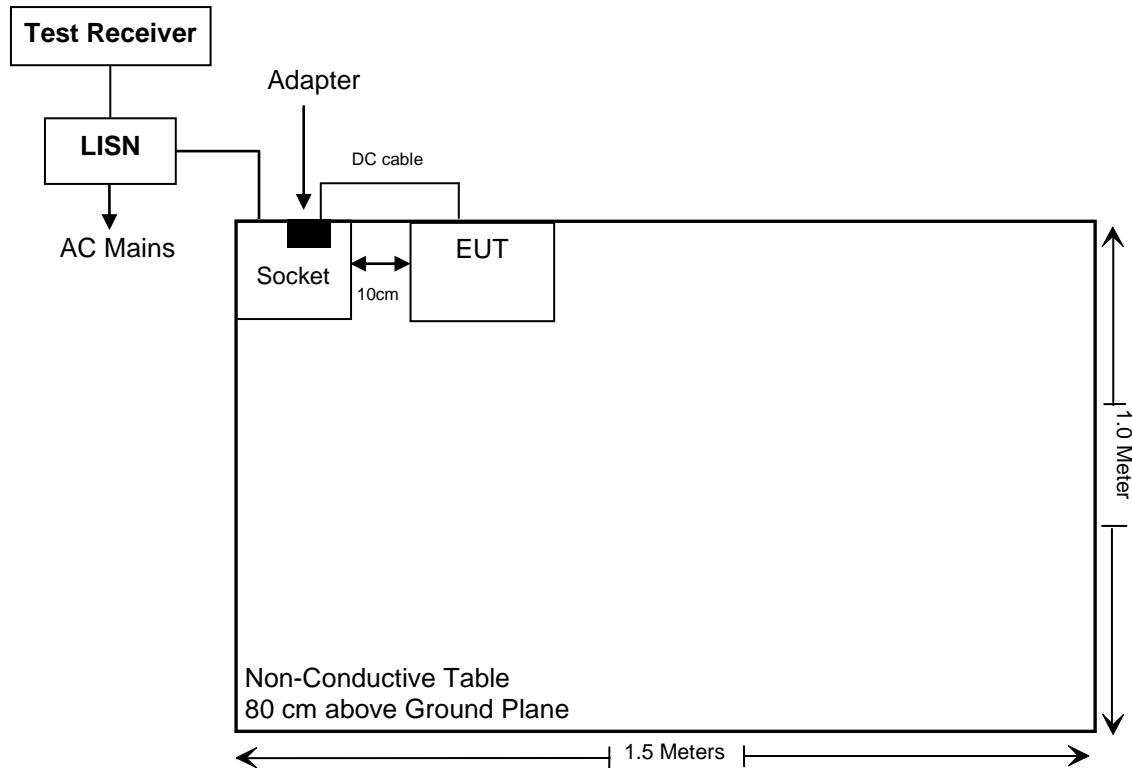
Manufacturer	Description	Model	Serial Number
/	/	/	/

### External I/O Cable

Cable Description	Shielding Type	Length (m)	From Port	To
DC Cable	NO	1.5	Adapter	EUT

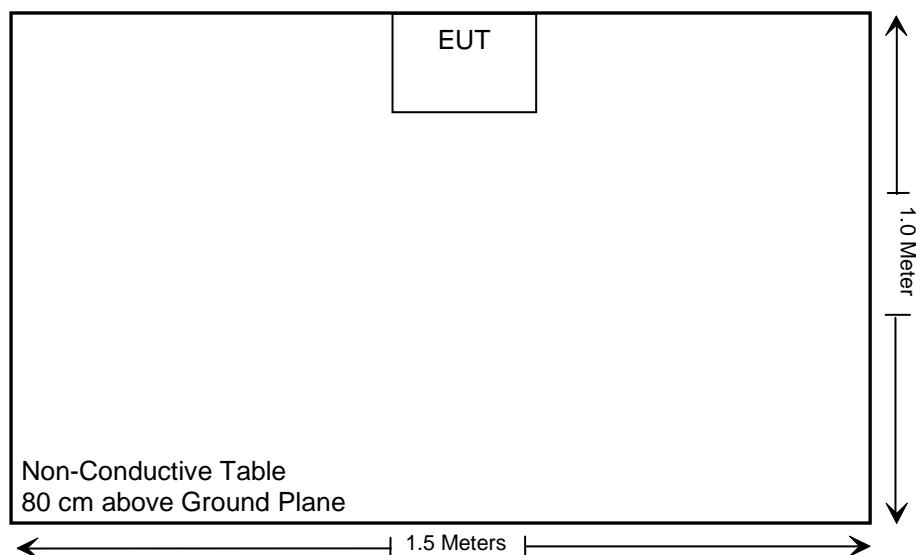
## Block Diagram of Test Setup

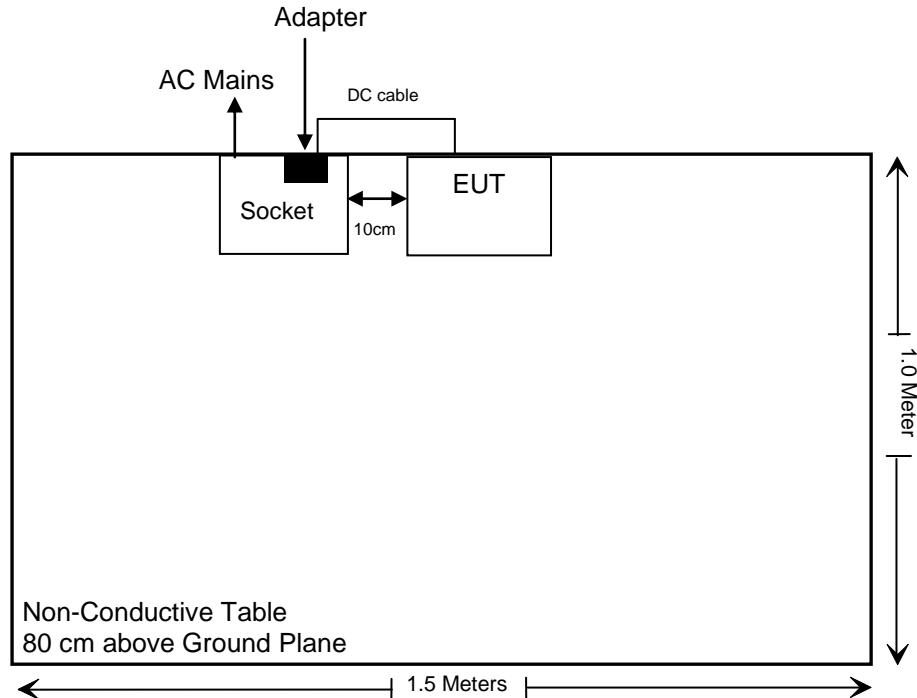
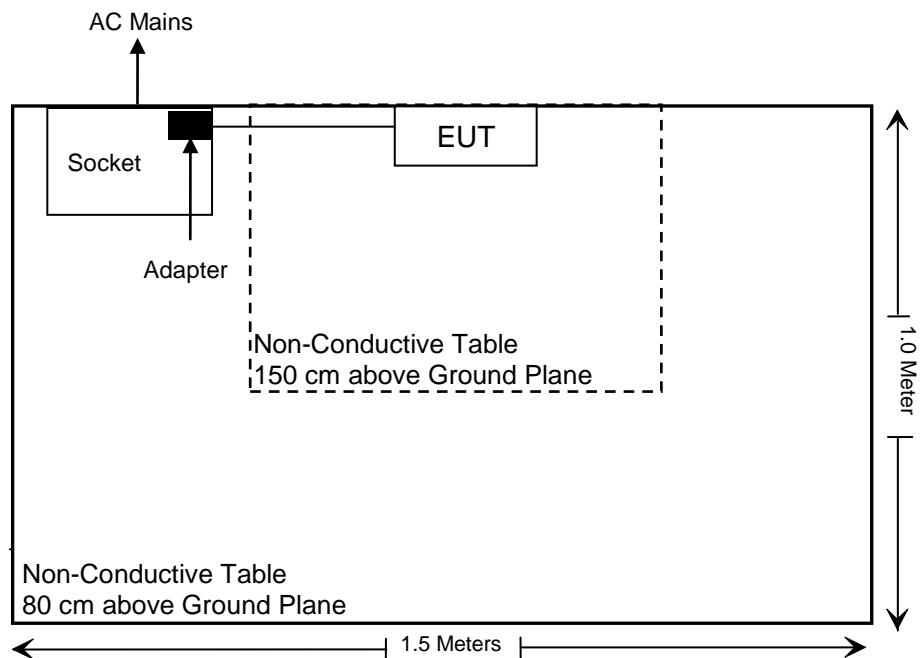
For Conducted Emission:



For Radiated Emission(Below 1GHz):

For Battery



**For Adapter****For Radiated Emission(Above 1GHz):****For Adapter**

## SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.

Note 2: For Radiated Spurious Emissions 9kHz~1GHz/18GHz~25GHz, the maximum output power mode and channel was tested.

Note 3: This device is installed vertically in Y-axes orientation. It was provided by applicant. The Y-axes orientation was tested and recorded in the report.

Note 4: The cable loss is 0.5dB, which was added into the all RF test results.

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Conducted Emissions Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2024/11/08	2025/11/07
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2024/11/08	2025/11/07
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2024/10/08	2025/10/07
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)					
<b>Radiated Spurious Emission Test(Below 1GHz)</b>					
Rohde & Schwarz	Test Receiver	ESR	102725	2024/11/08	2025/11/07
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)					
<b>Radiated Spurious Emission Test(Above 1GHz)</b>					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2024/10/08	2025/10/07
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2024/10/08	2025/10/07
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2024/10/08	2025/10/07
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/26	2026/03/25
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)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>RF Conducted test</b>					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2024/10/08	2025/10/07
Agilent	10dB Attenuator	8491B	A5825	2024/10/08	2025/10/07
Test Software: JDAutoTestSystem V1.0.0					

**\* 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).

## FCC §15.203-ANTENNA REQUIREMENT

### Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Antenna Connector Construction

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

Frequency Range	Antenna gain
2402-2480MHz	1.95dBi

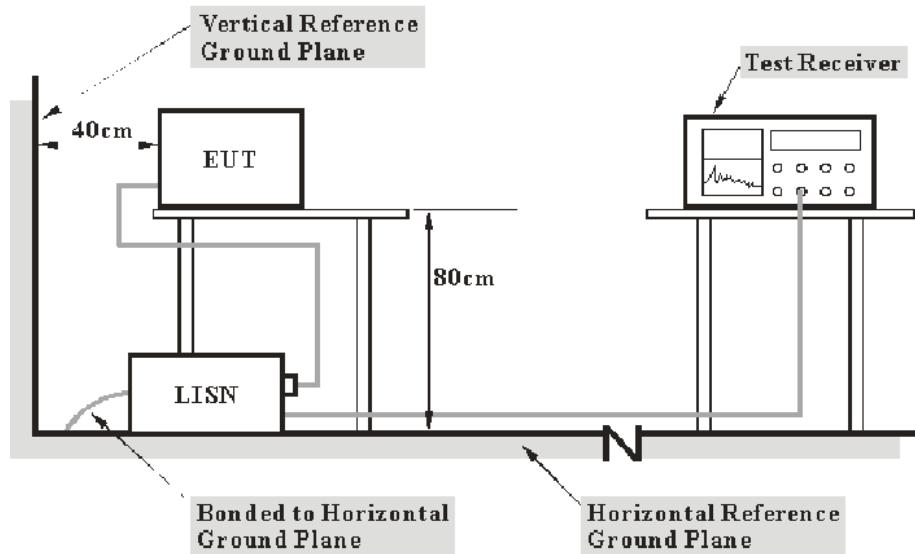
**Result:** Compliance.

## FCC §15.207 (a)-AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a).

### EUT Setup



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 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.

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.

## Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

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:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

## Test Data

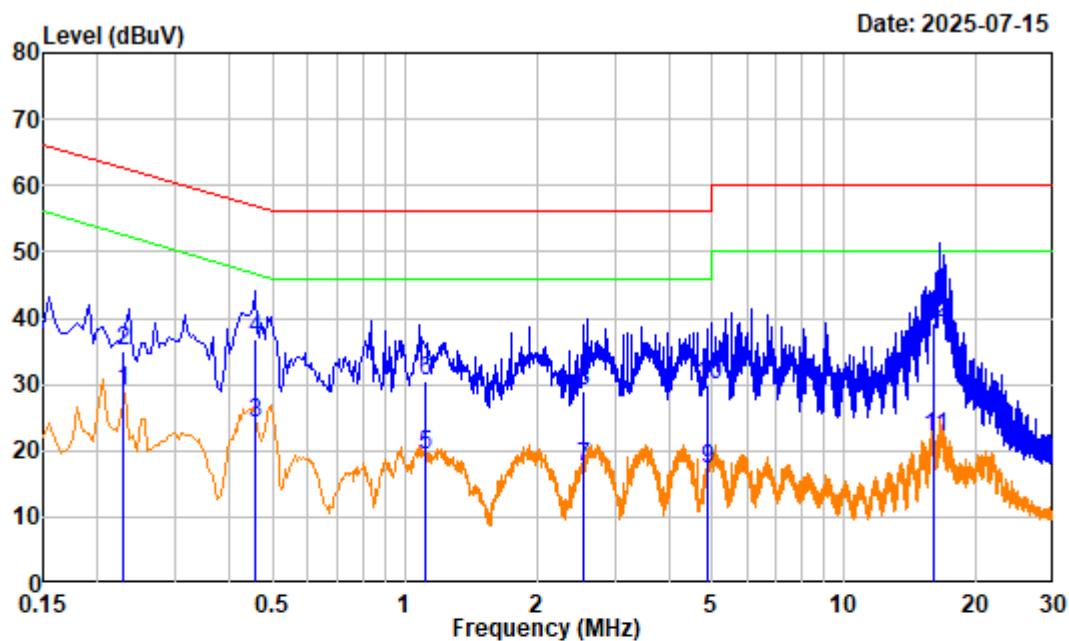
### Environmental Conditions

<b>Temperature:</b>	23.6 °C
<b>Relative Humidity:</b>	43 %
<b>ATM Pressure:</b>	100.2 kPa
<b>Test Engineer:</b>	Jason Fan
<b>Test Date:</b>	2025-07-15
<b>EUT Operation Mode:</b>	BLE Transmitting

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

*Note: The maximum output power mode and channel: BLE 1M Low Channel was tested.*

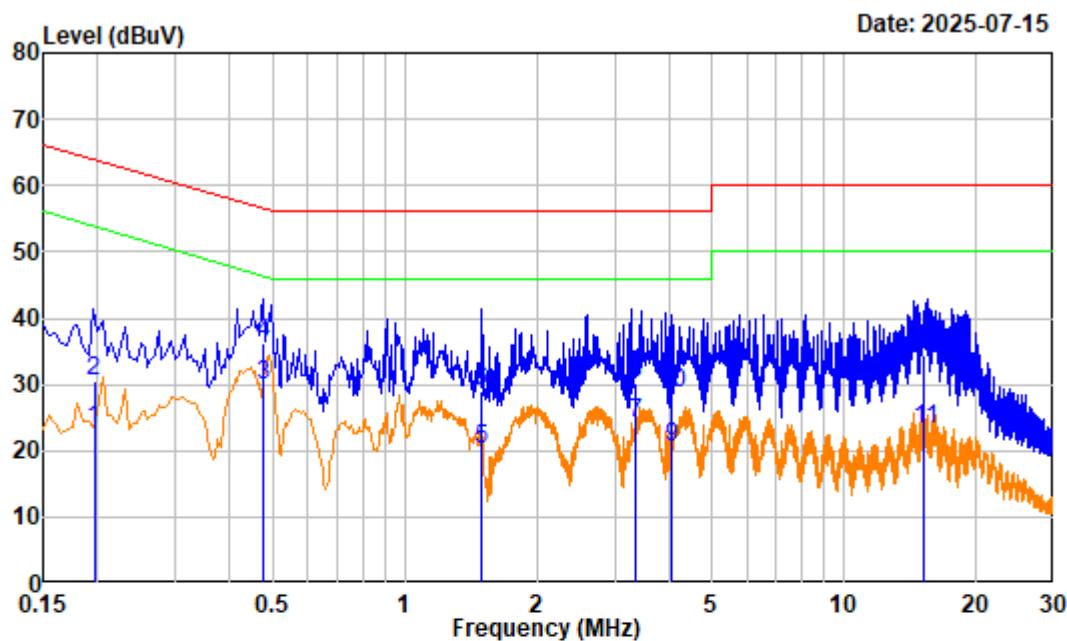
## AC 120V/60Hz, Line:



Site : Shielding Room  
 Condition : Line  
 Project No. : 2504V05608E-RF Tester: Jason Fan  
 Test Mode : BLE Transmitting  
 Note : Adapter  
 Receiver Setting: IF B/W 9kHz PK/AV

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB	dBuV	dBuV	Line	dB
1	0.229	19.97	9.07	29.04	52.50	-23.46	Average
2	0.229	19.97	14.94	34.91	62.50	-27.59	QP
3	0.455	20.01	4.13	24.14	46.78	-22.64	Average
4	0.455	20.01	16.82	36.83	56.78	-19.95	QP
5	1.108	20.37	-1.07	19.30	46.00	-26.70	Average
6	1.108	20.37	10.27	30.64	56.00	-25.36	QP
7	2.541	20.85	-3.25	17.60	46.00	-28.40	Average
8	2.541	20.85	8.27	29.12	56.00	-26.88	QP
9	4.894	21.69	-4.59	17.10	46.00	-28.90	Average
10	4.894	21.69	8.19	29.88	56.00	-26.12	QP
11	16.061	23.58	-1.40	22.18	50.00	-27.82	Average
12	16.061	23.58	15.70	39.28	60.00	-20.72	QP

## AC 120V/60Hz, Neutral:



Site : Shielding Room  
 Condition : neutral  
 Project No. : 2504V05608E-RF Tester: Jason Fan  
 Test Mode : BLE Transmitting  
 Note : Adapter  
 Receiver Setting: IF B/W 9kHz PK/AV

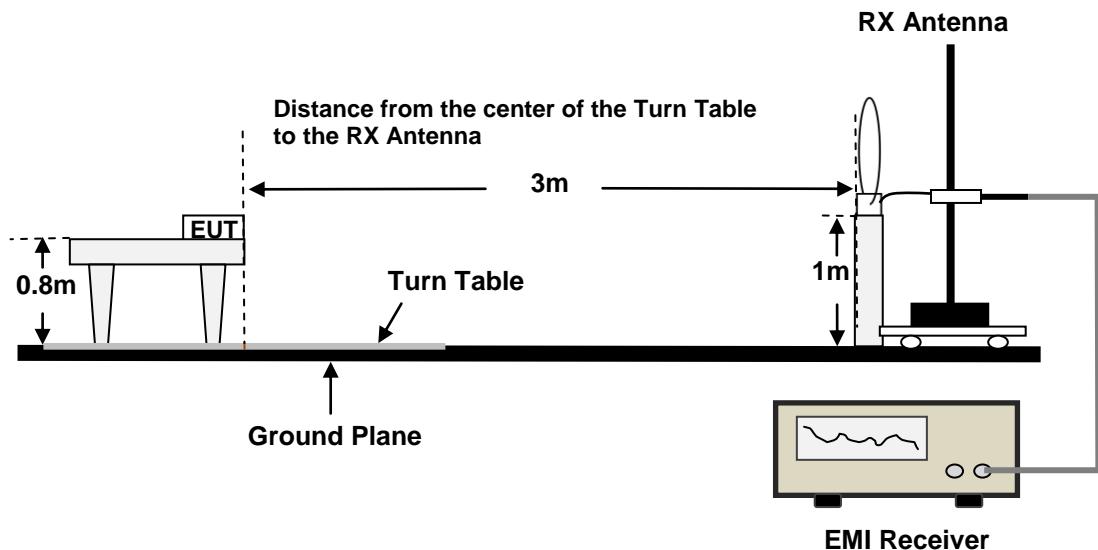
Freq	Factor	Read		Limit		Over	Remark
		MHz	dB	dBuV	dBuV	Line	dB
1	0.196	19.90	3.43	23.33	53.78	-30.45	Average
2	0.196	19.90	10.65	30.55	63.78	-33.23	QP
3	0.475	20.02	9.93	29.95	46.43	-16.48	Average
4	0.475	20.02	16.22	36.24	56.43	-20.19	QP
5	1.495	20.72	-0.52	20.20	46.00	-25.80	Average
6	1.495	20.72	8.25	28.97	56.00	-27.03	QP
7	3.348	21.24	2.80	24.04	46.00	-21.96	Average
8	3.348	21.24	8.87	30.11	56.00	-25.89	QP
9	4.038	21.35	-0.70	20.65	46.00	-25.35	Average
10	4.038	21.35	7.41	28.76	56.00	-27.24	QP
11	15.214	23.58	-0.35	23.23	50.00	-26.77	Average
12	15.214	23.58	10.69	34.27	60.00	-25.73	QP

**FCC §15.205, §15.209 & §15.247(d)-RADIATED EMISSIONS****Applicable Standard**

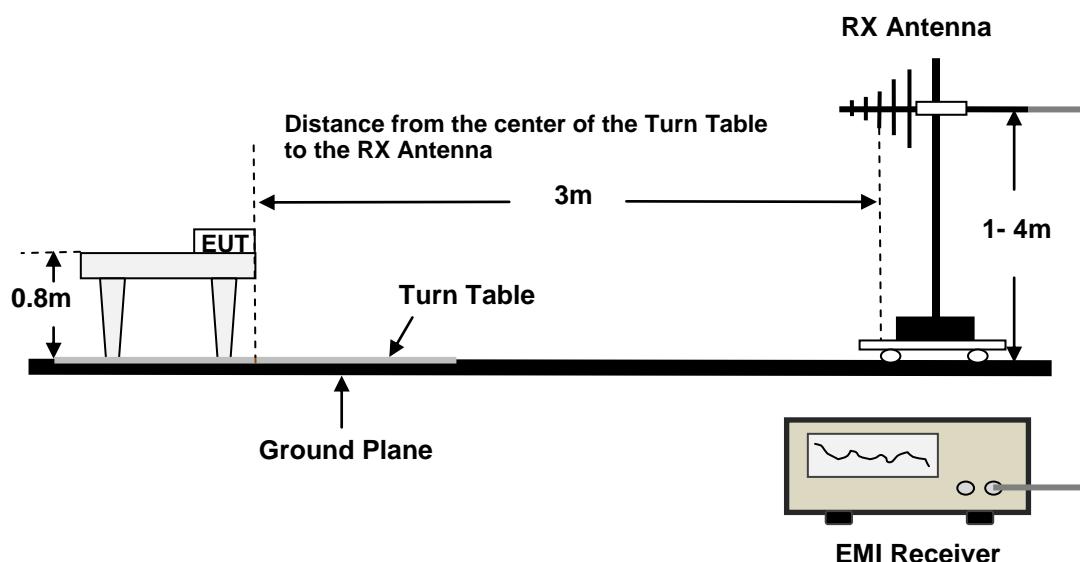
FCC §15.205; §15.209; §15.247(d)

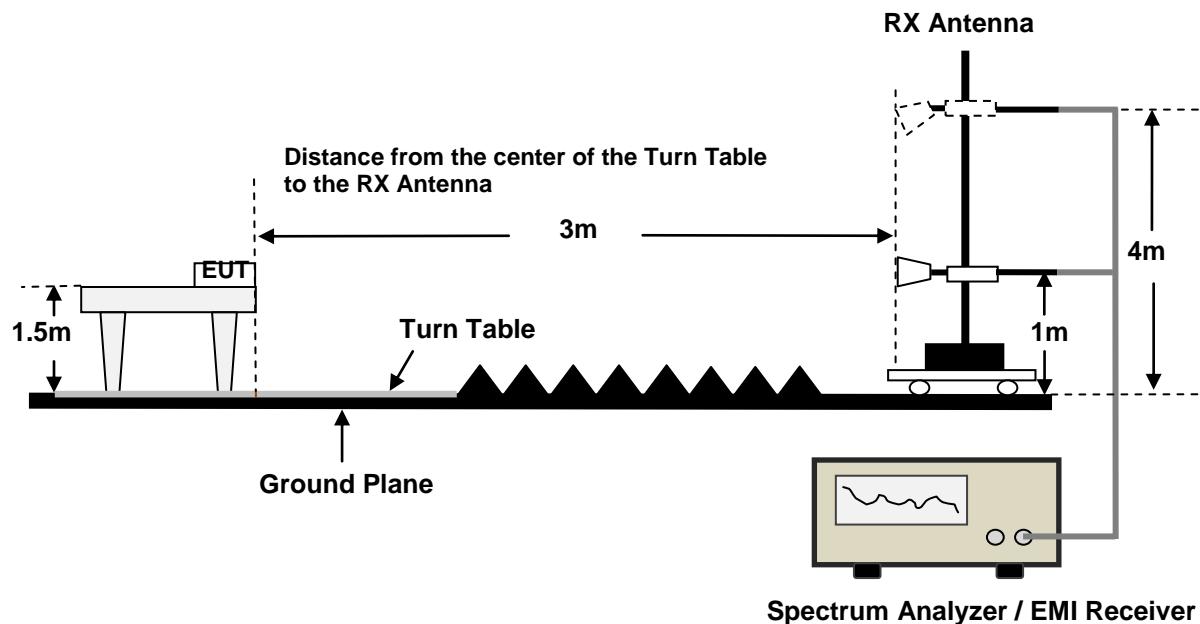
**EUT Setup**

9kHz - 30MHz:



30MHz - 1GHz:



**Above 1GHz:**

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 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	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
		>98%	1MHz	3kHz
		<98%	1MHz	≥1/T, no less than 3kHz

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
		>98%	1MHz	10Hz
		<98%	1MHz	≥1/T

Note 1: T is minimum transmission duration

Note 2: The 1GHz-4GHz testing use the notch filter and the 4GHz-18GHz testing use high-pass filter.

Note 3: The band edge testing use 10dB attenuator.

Note 4: 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).

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

where

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

## 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****9kHz-1GHz****Environmental Conditions**

<b>Temperature:</b>	24.2 °C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	100.1 kPa
<b>Test Engineer:</b>	Colin Lin
<b>Test Date:</b>	2025-07-14
<b>EUT Operation Mode:</b>	BLE 1M Transmitting

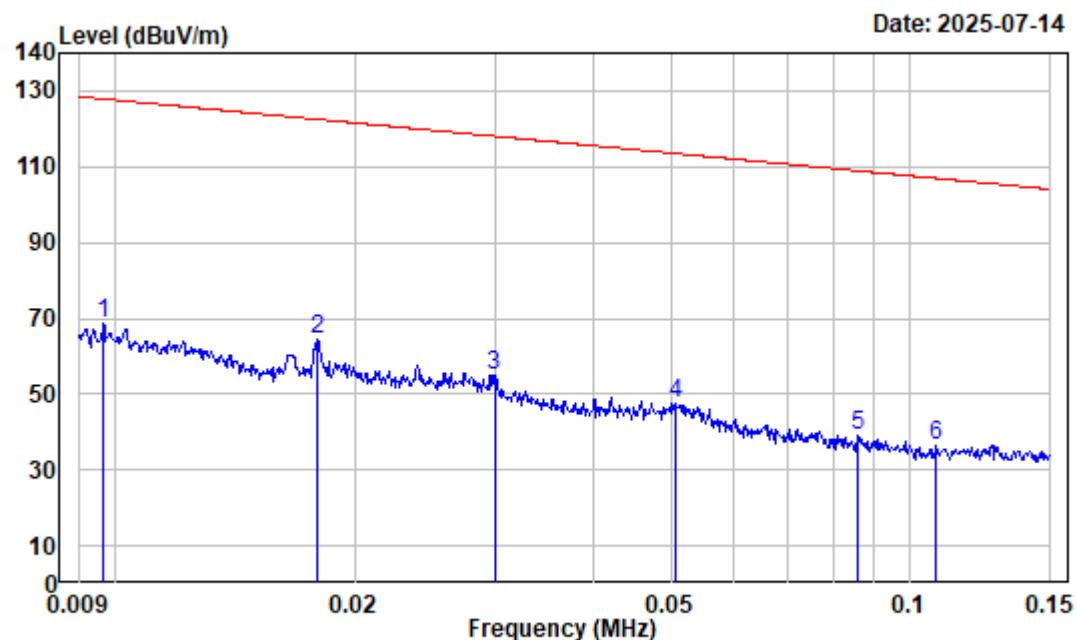
**Test Result:** Compliance, please refer to the below data.

*Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel and the data was recorded in report.*

*Note 2: The maximum output power mode and channel: BLE 1M Low Channel was tested.*

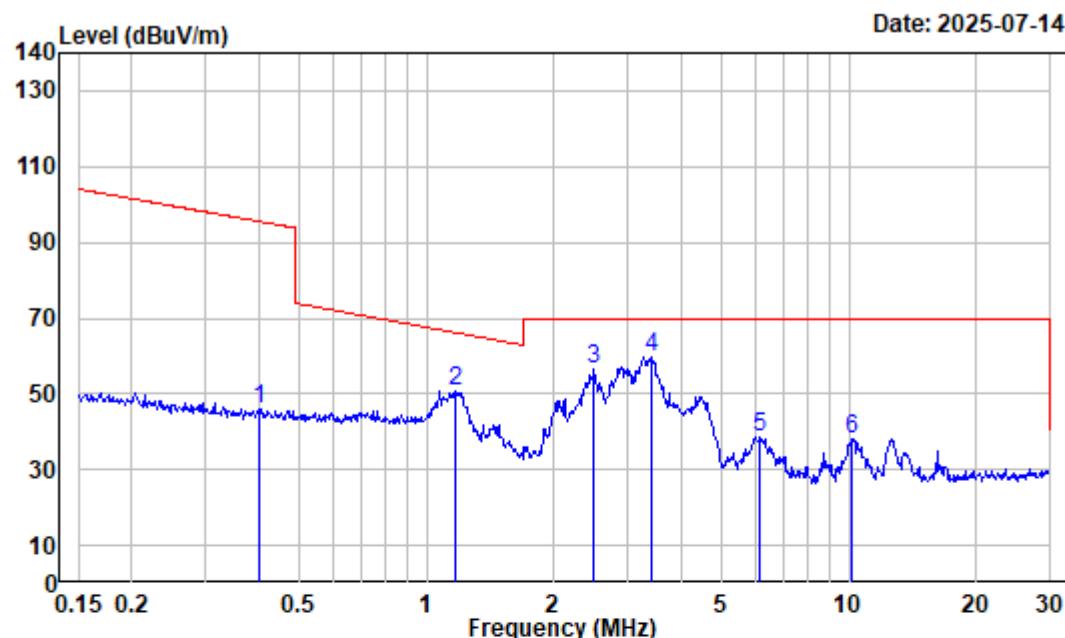
**For Battery:**

9kHz~30MHz:



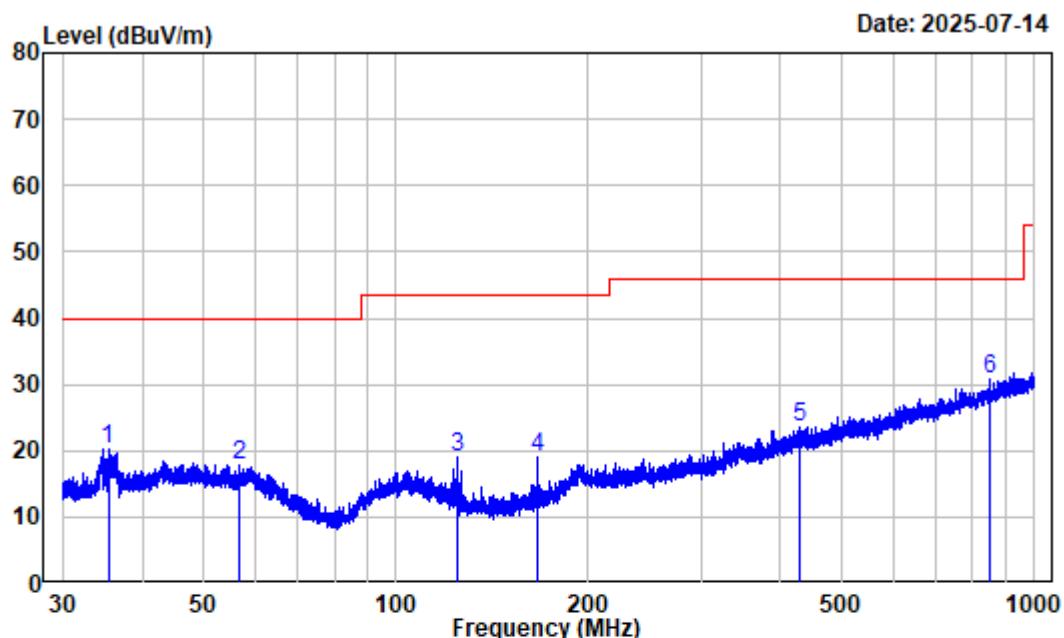
Site : Chamber  
Condition : 3m  
Job No. : 2504V05608E-RF  
Polarization : Parallel Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Battery powered  
Receiver Setting: RBW:300Hz VBW:1kHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.010	36.08	32.52	68.60	127.88 -59.28 Peak
2	0.018	32.29	32.04	64.33	122.51 -58.18 Peak
3	0.030	26.95	28.16	55.11	118.06 -62.95 Peak
4	0.051	22.72	25.00	47.72	113.52 -65.80 Peak
5	0.086	17.91	21.25	39.16	108.92 -69.76 Peak
6	0.108	16.08	20.62	36.70	106.94 -70.24 Peak



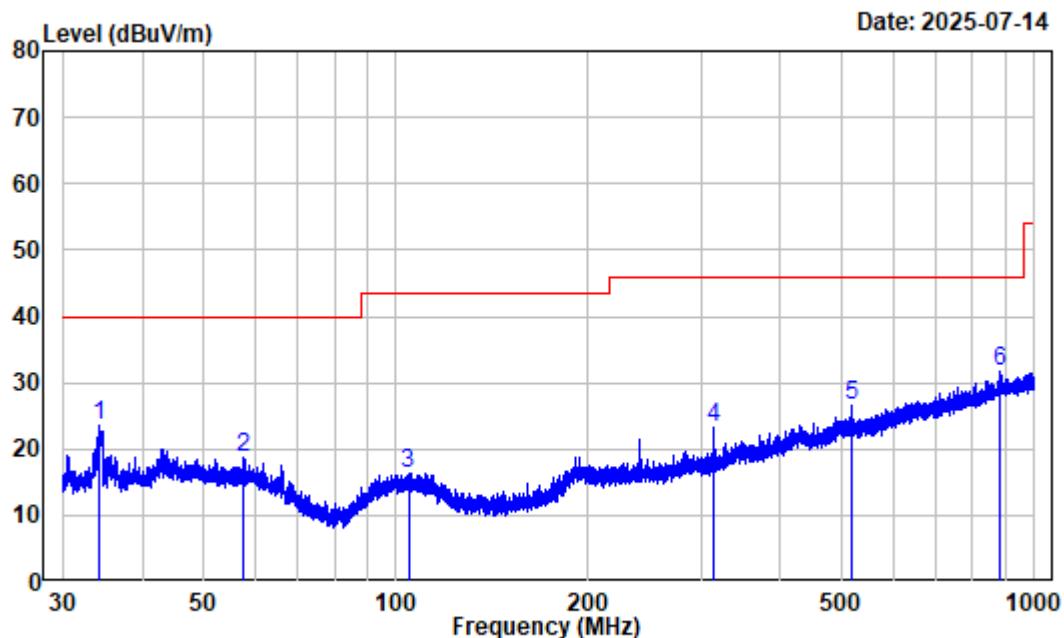
Site : Chamber  
Condition : 3m  
Job No. : 2504V05608E-RF  
Polarization : Parallel Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Battery powered  
Receiver Setting: RBW:10kHz VBW:30kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	0.402	5.24	40.66	45.90	95.52	-49.62	Peak
2	1.166	-2.42	53.08	50.66	66.11	-15.45	Peak
3	2.487	-5.60	62.06	56.46	69.54	-13.08	Peak
4	3.417	-6.03	65.90	59.87	69.54	-9.67	Peak
5	6.153	-6.19	44.85	38.66	69.54	-30.88	Peak
6	10.179	-5.29	43.49	38.20	69.54	-31.34	Peak

**30MHz~1GHz:**

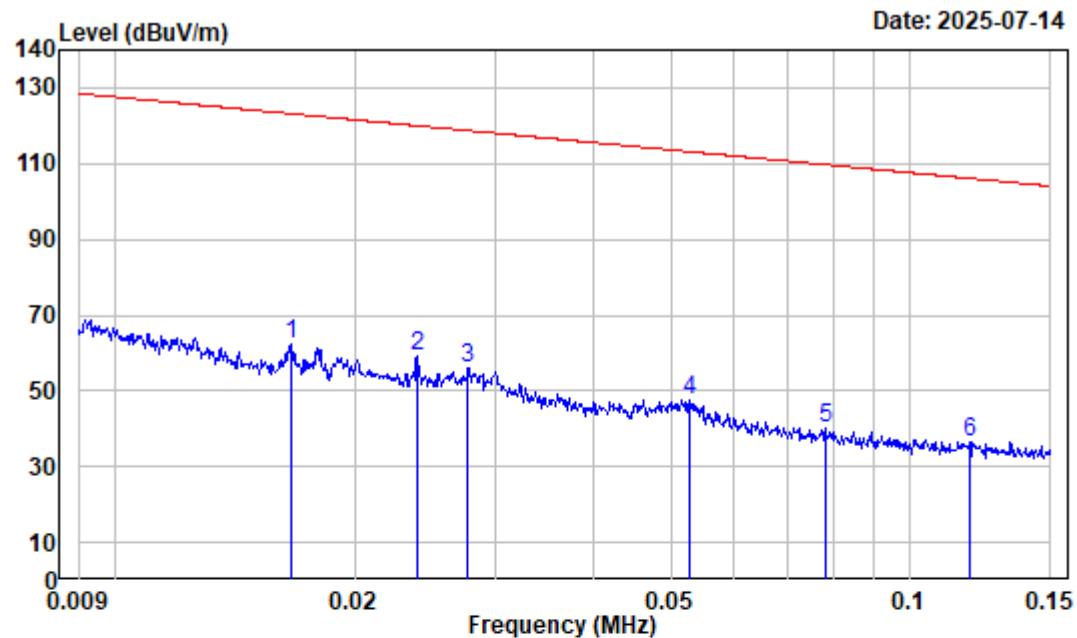
Site : Chamber  
Condition : 3m HORIZONTAL  
Job No. : 2504V05608E-RF Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Battery powered  
Receiver Setting: RBW:100kHz VBW:300kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	Limit
1	35.375	-11.53	31.73	20.20	40.00	-19.80	Peak
2	56.941	-10.27	28.03	17.76	40.00	-22.24	Peak
3	124.569	-14.14	33.23	19.09	43.50	-24.41	Peak
4	166.505	-13.83	32.89	19.06	43.50	-24.44	Peak
5	427.832	-4.93	28.50	23.57	46.00	-22.43	Peak
6	852.155	1.09	29.67	30.76	46.00	-15.24	Peak



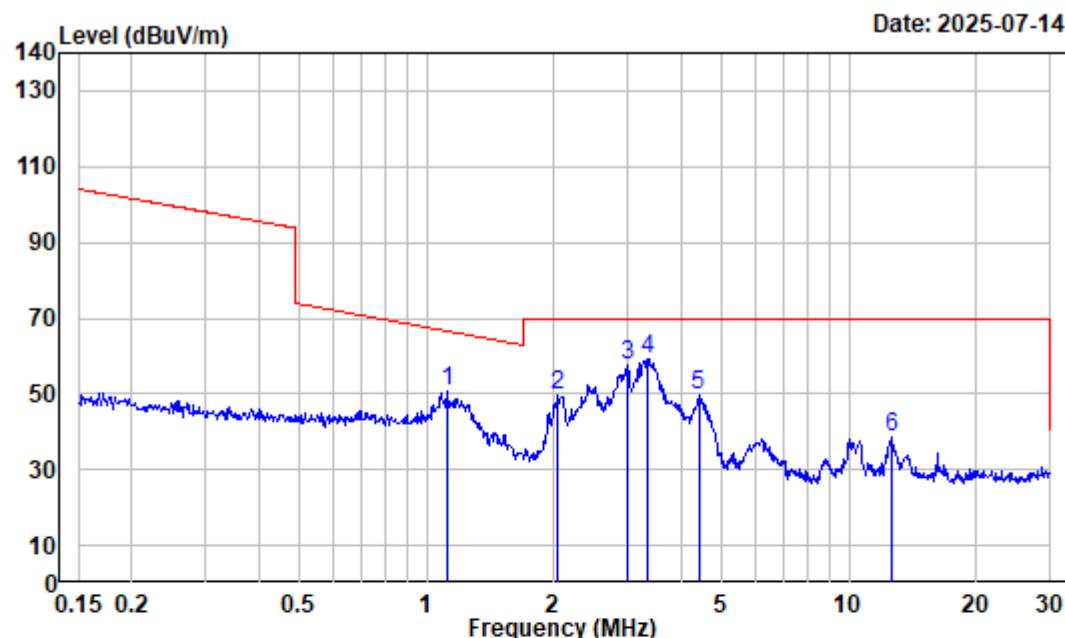
Site : Chamber  
Condition : 3m VERTICAL  
Job No. : 2504V05608E-RF Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Battery powered  
Receiver Setting: RBW:100kHz VBW:300kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	dBuV	Line	dBuV/m		
1	34.276	-11.72	35.23	23.51	40.00	-16.49	Peak
2	57.771	-10.24	28.95	18.71	40.00	-21.29	Peak
3	104.490	-11.14	27.59	16.45	43.50	-27.05	Peak
4	314.928	-8.62	31.96	23.34	46.00	-22.66	Peak
5	518.383	-3.53	30.10	26.57	46.00	-19.43	Peak
6	880.634	1.57	30.02	31.59	46.00	-14.41	Peak

**For Adapter:****9kHz~30MHz:**

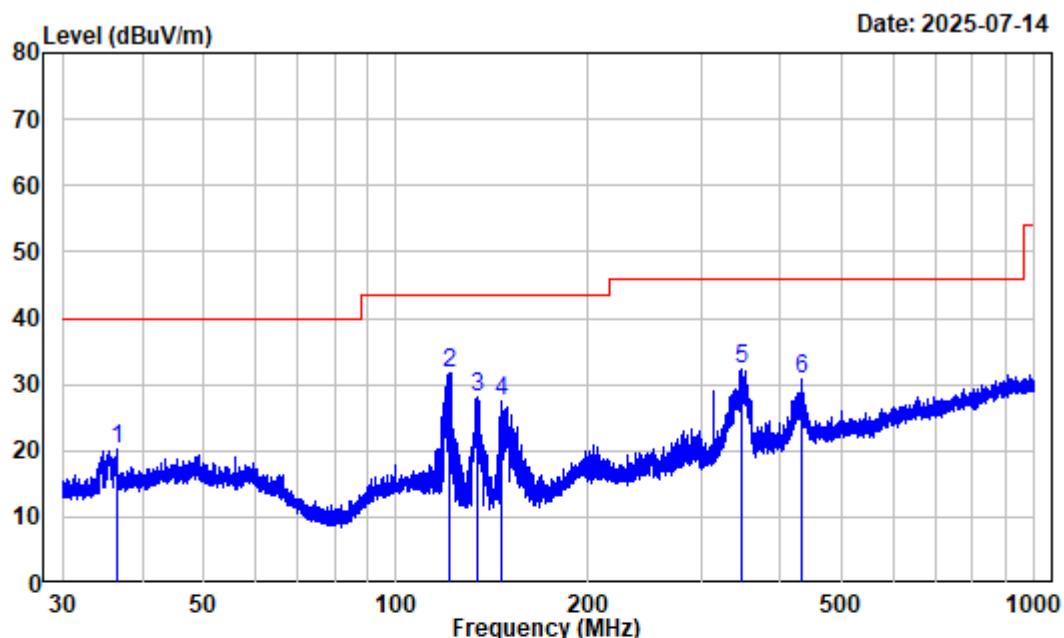
Site : Chamber  
Condition : 3m  
Job No. : 2504V05608E-RF  
Polarization : Parallel Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Adapter  
Receiver Setting: RBW:300Hz VBW:1kHz

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
			dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.017	32.89	29.39	62.28	123.19	-60.91	Peak
2	0.024	29.63	29.31	58.94	120.02	-61.08	Peak
3	0.028	27.92	28.31	56.23	118.72	-62.49	Peak
4	0.053	22.41	25.29	47.70	113.15	-65.45	Peak
5	0.078	18.80	21.61	40.41	109.75	-69.34	Peak
6	0.119	15.59	20.93	36.52	106.11	-69.59	Peak



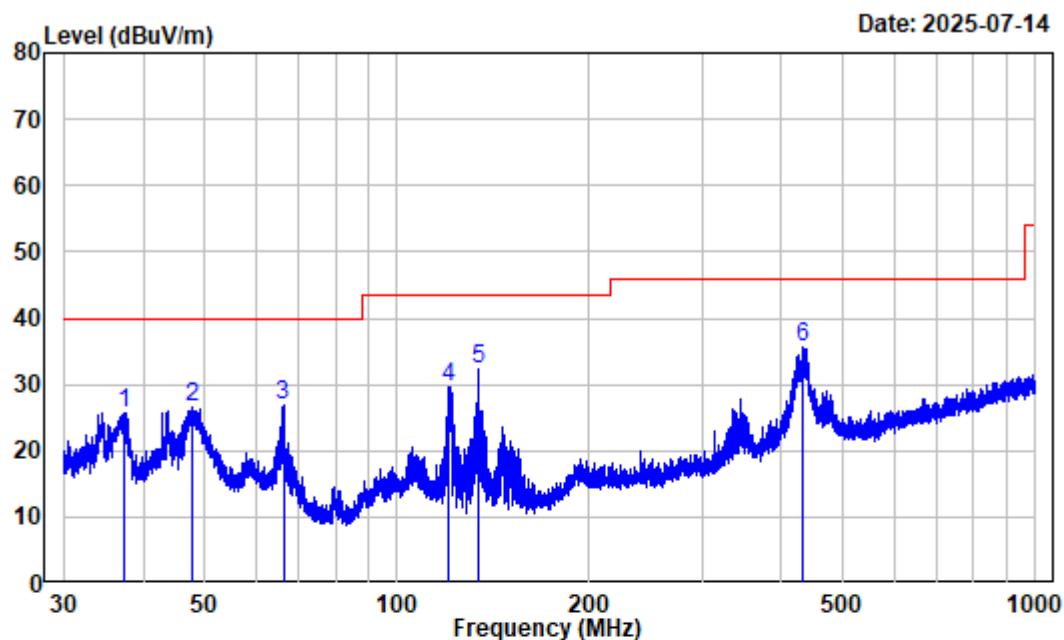
Site : Chamber  
Condition : 3m  
Job No. : 2504V05608E-RF  
Polarization : Parallel Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Adapter  
Receiver Setting: RBW:10kHz VBW:30kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	1.117	-2.24	52.89	50.65	66.49	-15.84	Peak
2	2.044	-5.40	54.98	49.58	69.54	-19.96	Peak
3	2.978	-5.82	63.39	57.57	69.54	-11.97	Peak
4	3.328	-5.98	65.34	59.36	69.54	-10.18	Peak
5	4.407	-6.30	55.99	49.69	69.54	-19.85	Peak
6	12.649	-4.69	43.18	38.49	69.54	-31.05	Peak

**30MHz~1GHz:**

Site : Chamber  
Condition : 3m HORIZONTAL  
Job No. : 2504V05608E-RF Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Adapter  
Receiver Setting: RBW:100kHz VBW:300kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	Limit
1	36.509	-11.36	31.69	20.33	40.00	-19.67	Peak
2	121.017	-13.56	45.29	31.73	43.50	-11.77	Peak
3	134.382	-14.50	42.49	27.99	43.50	-15.51	Peak
4	146.566	-14.87	42.46	27.59	43.50	-15.91	Peak
5	346.809	-6.79	39.07	32.28	46.00	-13.72	Peak
6	431.599	-4.89	35.82	30.93	46.00	-15.07	Peak



Site : Chamber  
Condition : 3m VERTICAL  
Job No. : 2504V05608E-RF Tester: Colin Lin  
Test Mode : BLE 1M Transmitting  
Note : Adapter  
Receiver Setting: RBW:100kHz VBW:300kHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	37.351	-11.14	36.88	25.74	40.00 -14.26 Peak
2	47.721	-9.84	36.34	26.50	40.00 -13.50 Peak
3	66.295	-12.96	39.73	26.77	40.00 -13.23 Peak
4	120.646	-13.49	43.17	29.68	43.50 -13.82 Peak
5	134.382	-14.50	46.75	32.25	43.50 -11.25 Peak
6	432.925	-4.88	40.37	35.49	46.00 -10.51 Peak

**1GHz-25GHz****Environmental Conditions**

<b>Temperature:</b>	24.3 to 24.6 °C
<b>Relative Humidity:</b>	52 to 53 %
<b>ATM Pressure:</b>	99.3 to 100.1 kPa
<b>Test Engineer:</b>	Kevin Lv
<b>Test Date:</b>	2025-07-21 to 2025-08-03
<b>EUT Operation Mode:</b>	Transmitting

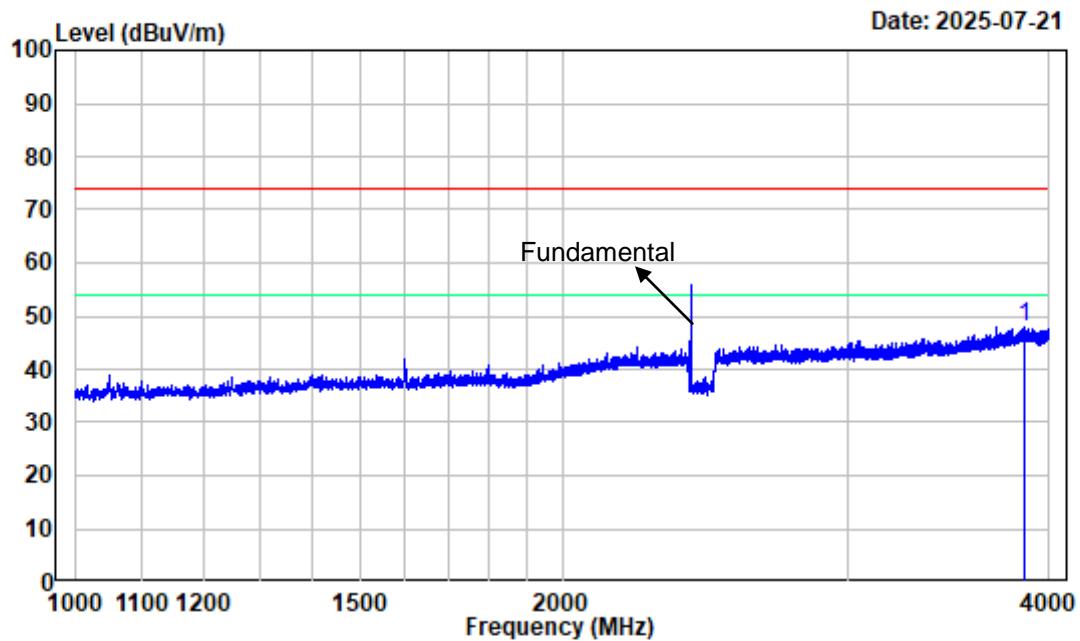
**Test Result:** Compliance, please refer to the below data.

*Note 1: For 1GHz-4GHz, the fundamental with band reject filter.*

*Note 2: For 18GHz-25GHz, the maximum output power mode and channel: BLE 1M Low Channel was tested.*

*Note 3: Choose the adapter for testing,*

## BLE 1M Low Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

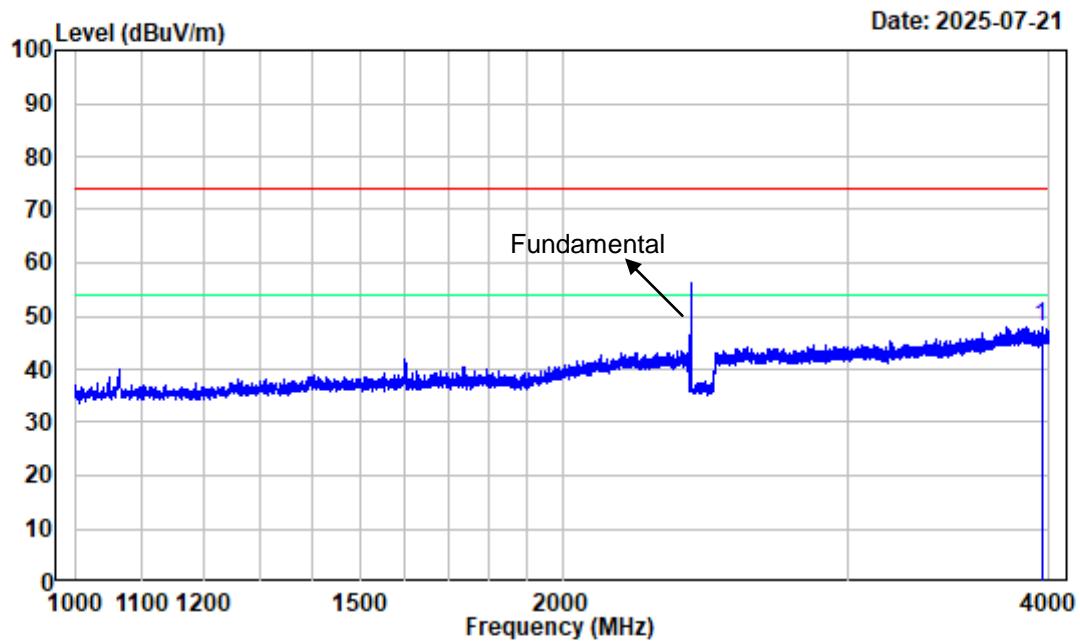
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over Limit	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	3865.000	-8.13	55.97	47.84	74.00	-26.16	Peak

## BLE 1M Low Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

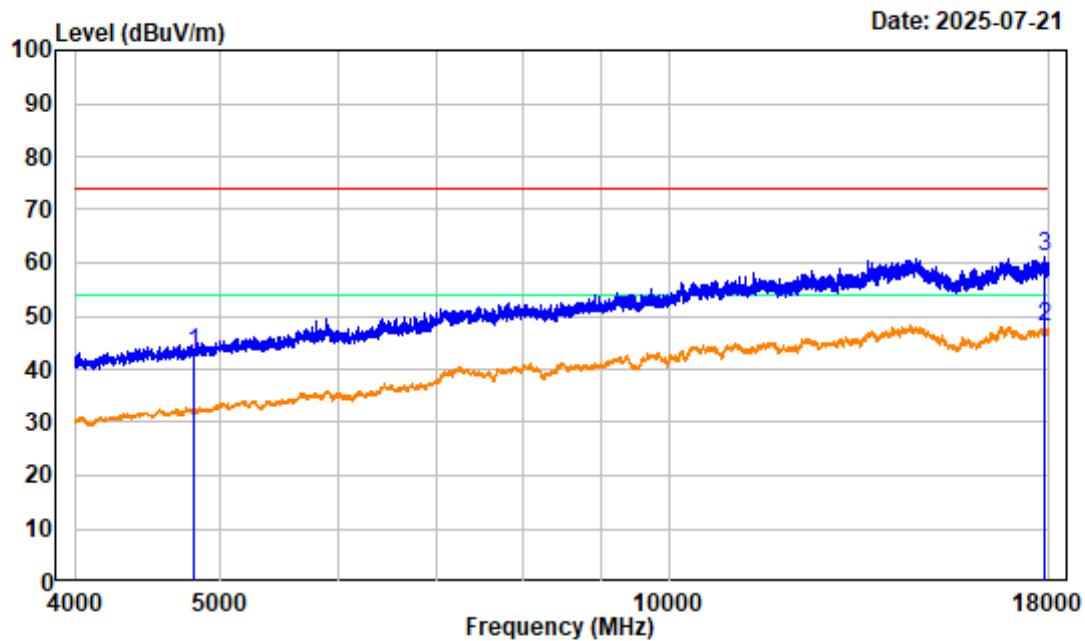
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	3957.250	-8.41	56.41	48.00	74.00	-26.00	Peak

## BLE 1M Low Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

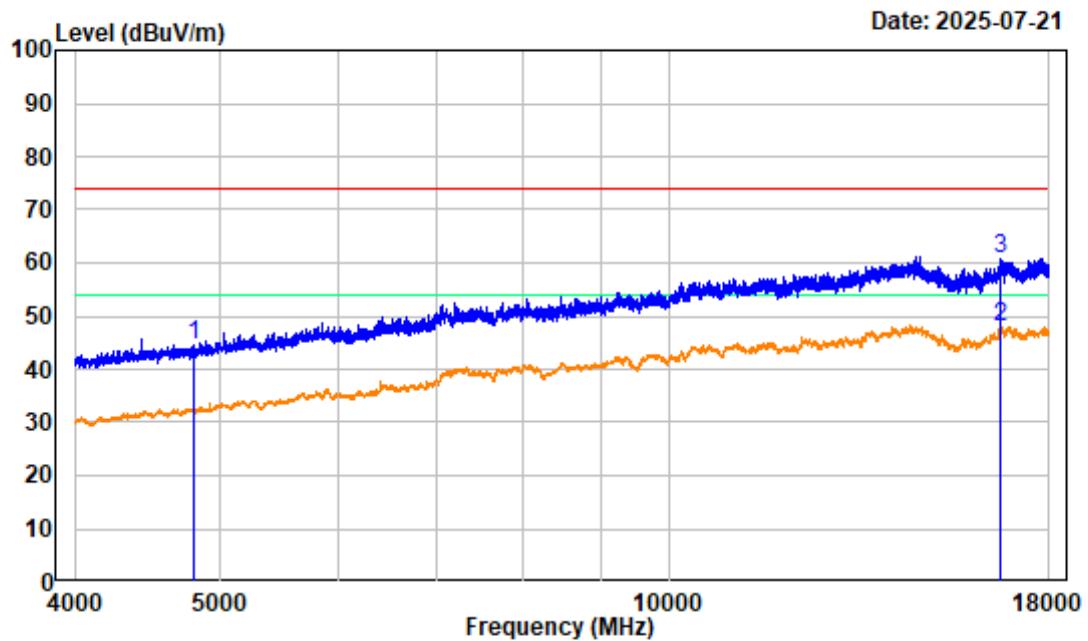
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit	Over	Remark
		MHz	dB/m	dBuV	dBuV/m	
1	4804.000	-6.64	49.73	43.09	74.00	-30.91 Peak
2	17875.750	8.29	39.48	47.77	54.00	-6.23 Average
3	17875.750	8.29	52.77	61.06	74.00	-12.94 Peak

## BLE 1M Low Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

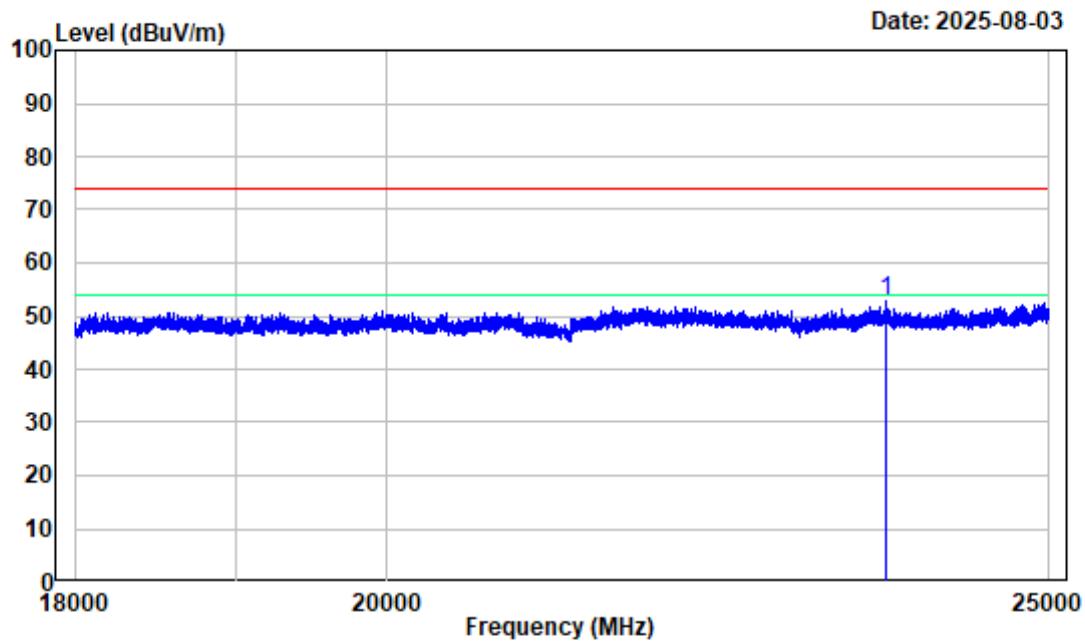
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	4804.000	-6.64	51.11	44.47	74.00	-29.53	Peak
2	16696.250	6.99	40.81	47.80	54.00	-6.20	Average
3	16696.250	6.99	53.72	60.71	74.00	-13.29	Peak

## BLE 1M Low Channel 18GHz-25GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

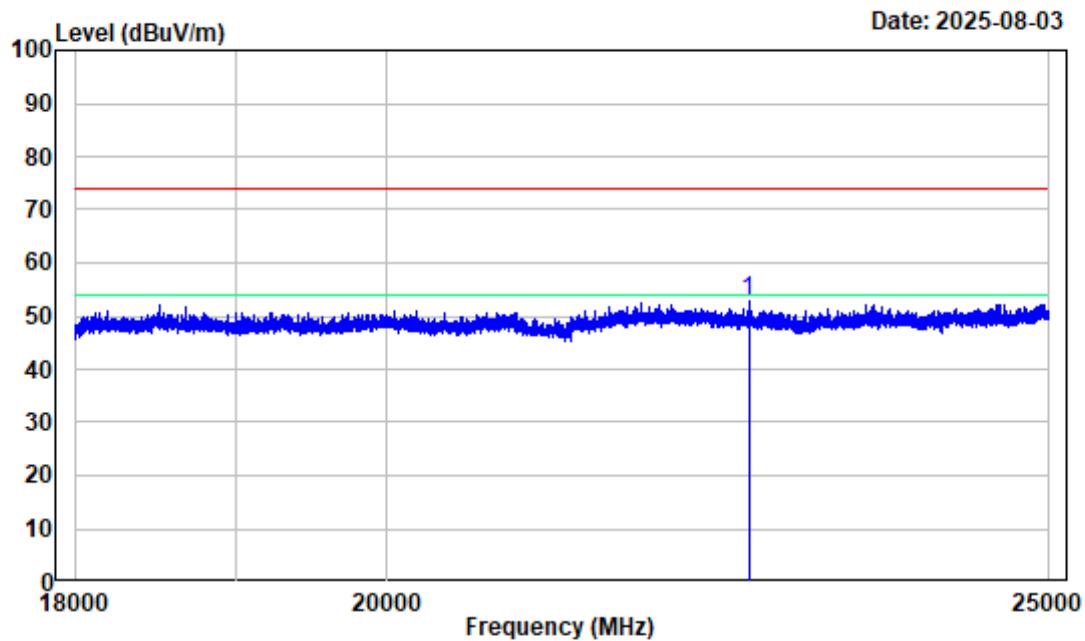
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 18GHz-25GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1 23659.500	2.35	50.34	52.69	74.00	-21.31	Peak	

## BLE 1M Low Channel 18GHz-25GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

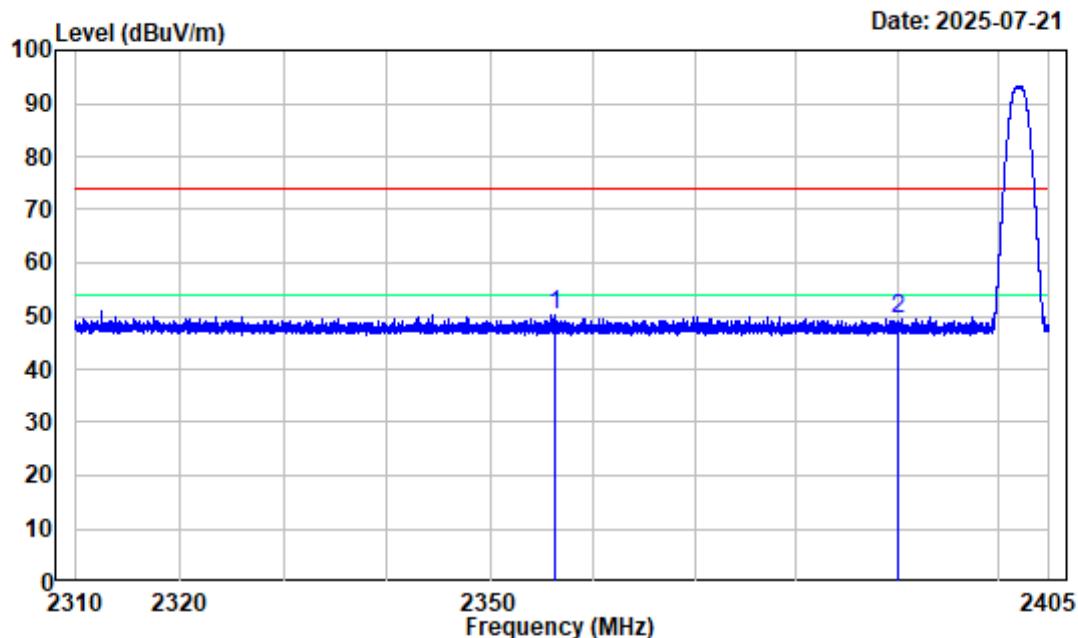
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz 18GHz-25GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over Limit	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	22591.130	0.86	51.85	52.71	74.00	-21.29	Peak

## BLE 1M Low Channel Bandedge\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

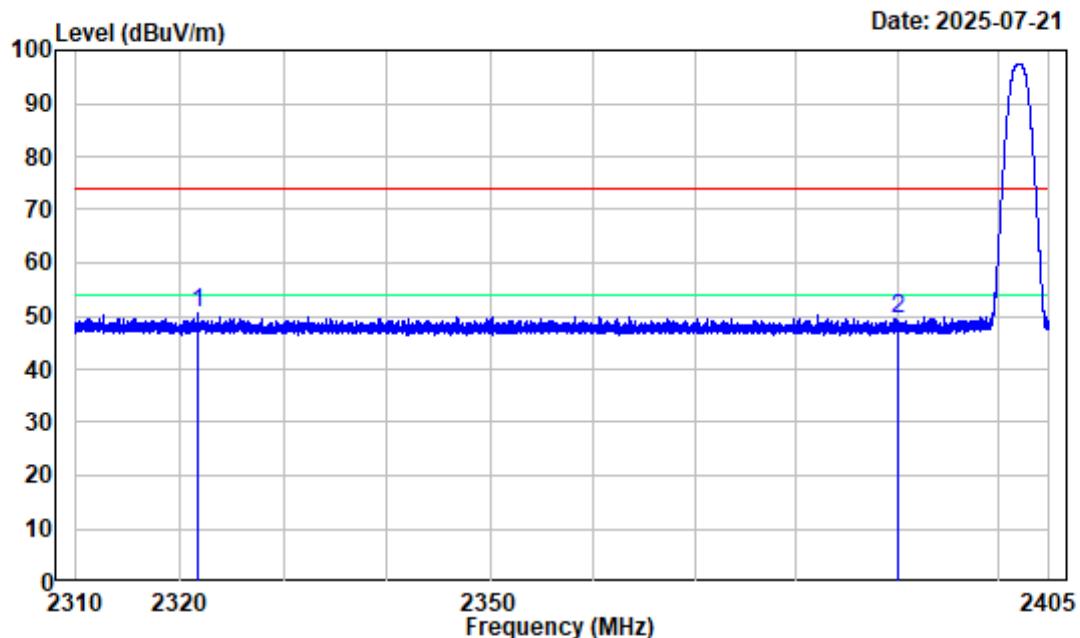
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	2356.372	-10.13	60.32	50.19	74.00	-23.81	Peak
2	2390.000	-10.25	59.52	49.27	74.00	-24.73	peak

## BLE 1M Low Channel Bandedge\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

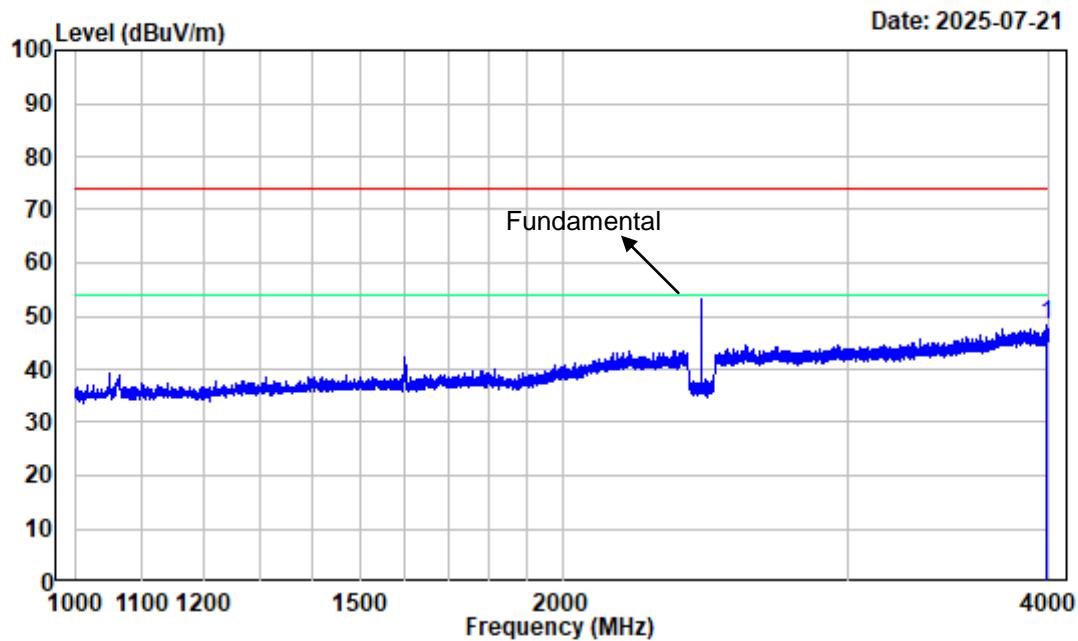
Project No.: 2504V05608E-RF

Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	2321.744	-9.95	60.64	50.69	74.00	-23.31	Peak
2	2390.000	-10.25	59.79	49.54	74.00	-24.46	peak

**BLE 1M Middle Channel 1GHz-4GHz\_HORIZONTAL**

Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

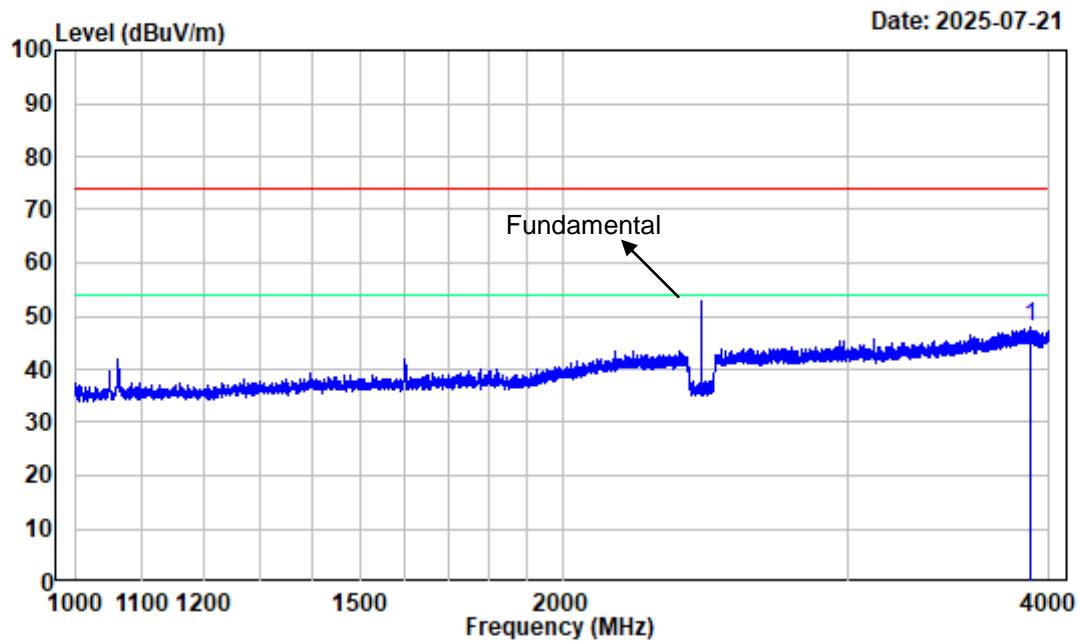
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz, VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	3988.375	-8.17	56.42	48.25	74.00	-25.75	Peak

## BLE 1M Middle Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

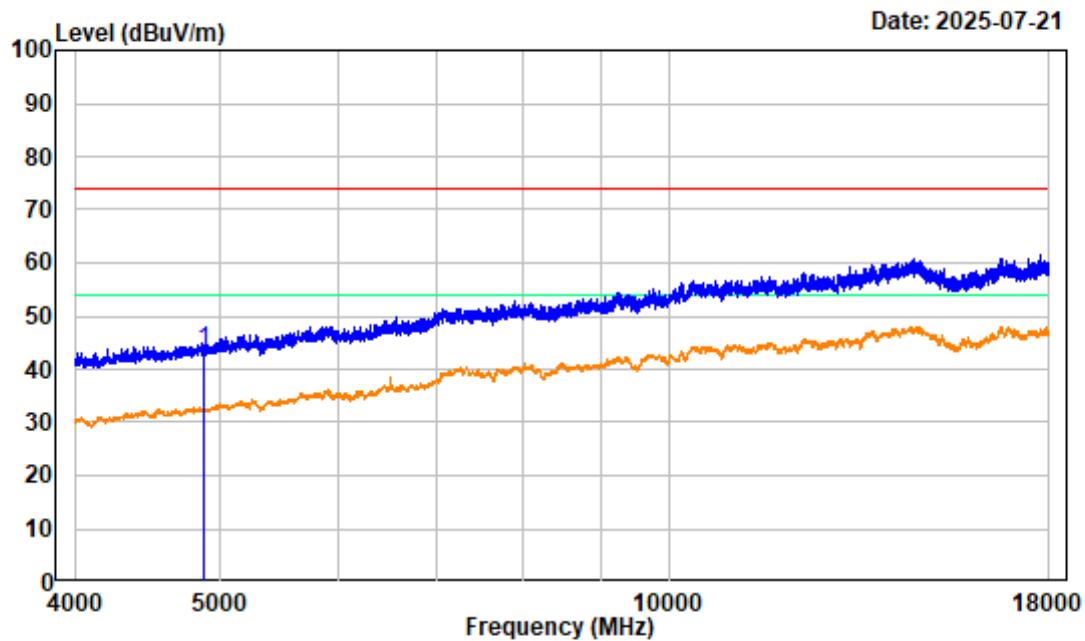
Project No.: 2504V05608E-RF

Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz, VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	3895.750	-7.92	55.92	48.00	74.00	-26.00	Peak

**BLE 1M Middle Channel 4GHz-18GHz\_HORIZONTAL**

Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

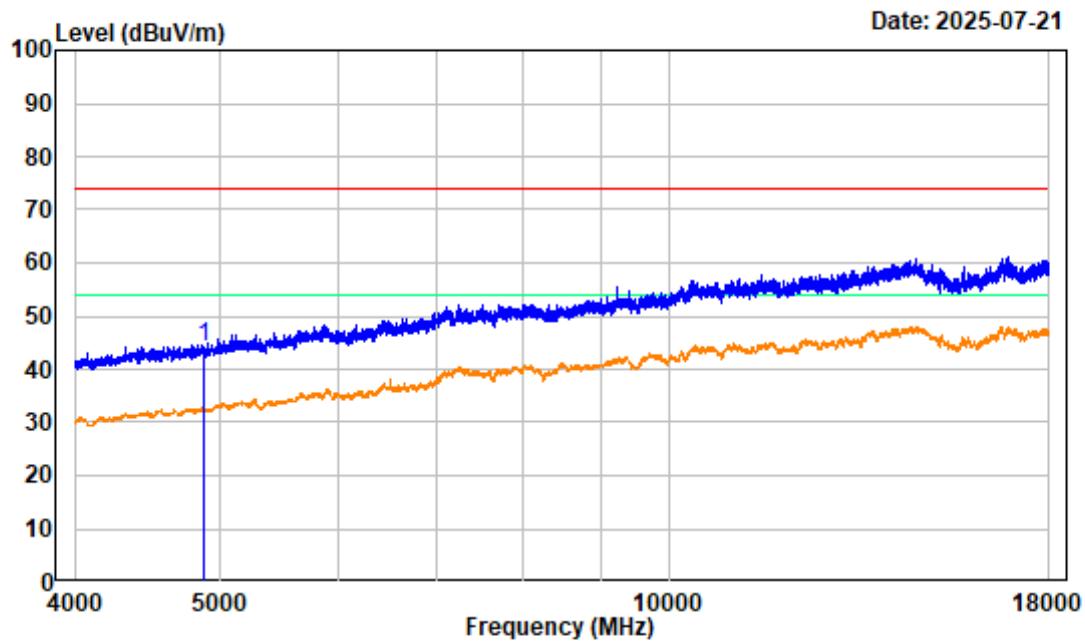
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit	Over	Remark
		MHz	dB/m	dBuV	dBuV/m	
1	4880.250	-6.57	49.89	43.32	74.00	-30.68 Peak

## BLE 1M Middle Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

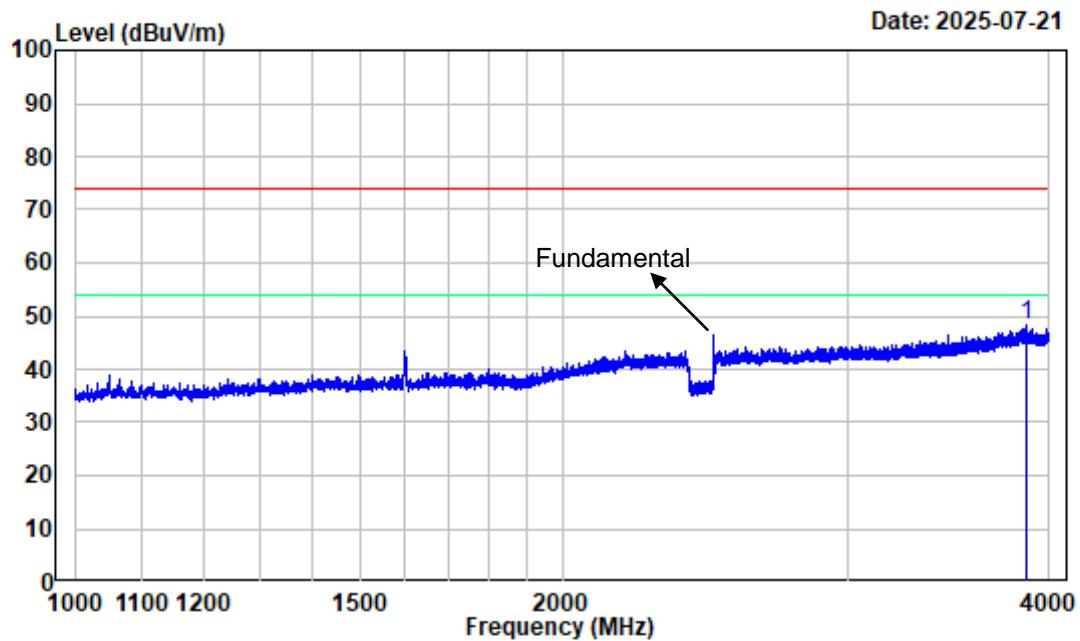
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	
1	4880.250	-6.57	50.63	44.06	74.00	-29.94	Peak

## BLE 1M High Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

Test Mode : Transmitting

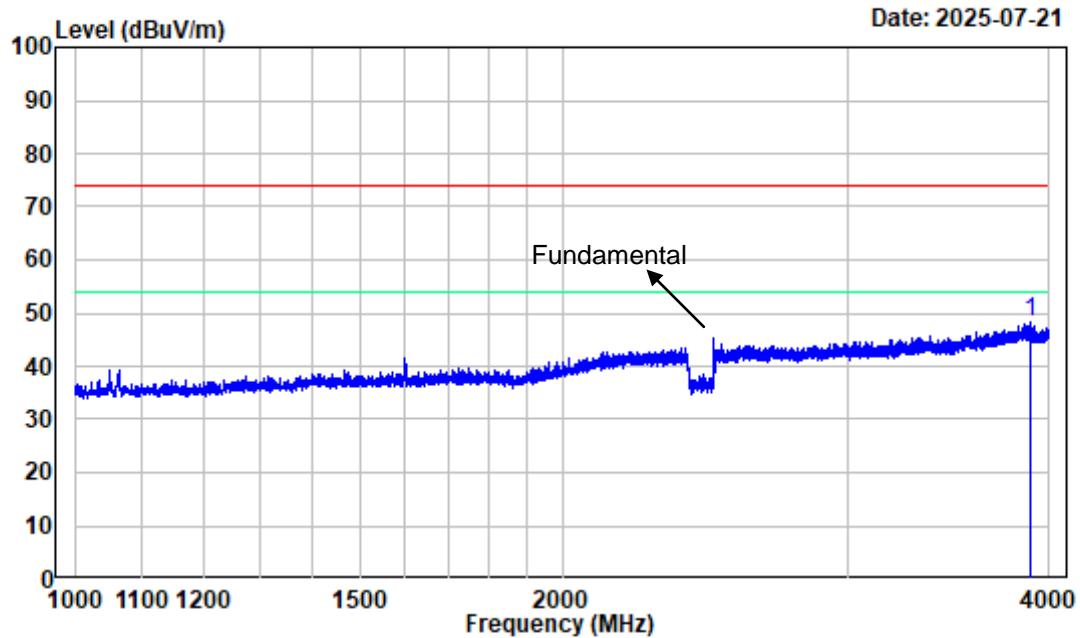
Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1 3869.125	-8.11	56.38	48.27	74.00	-25.73	Peak	

## BLE 1M High Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

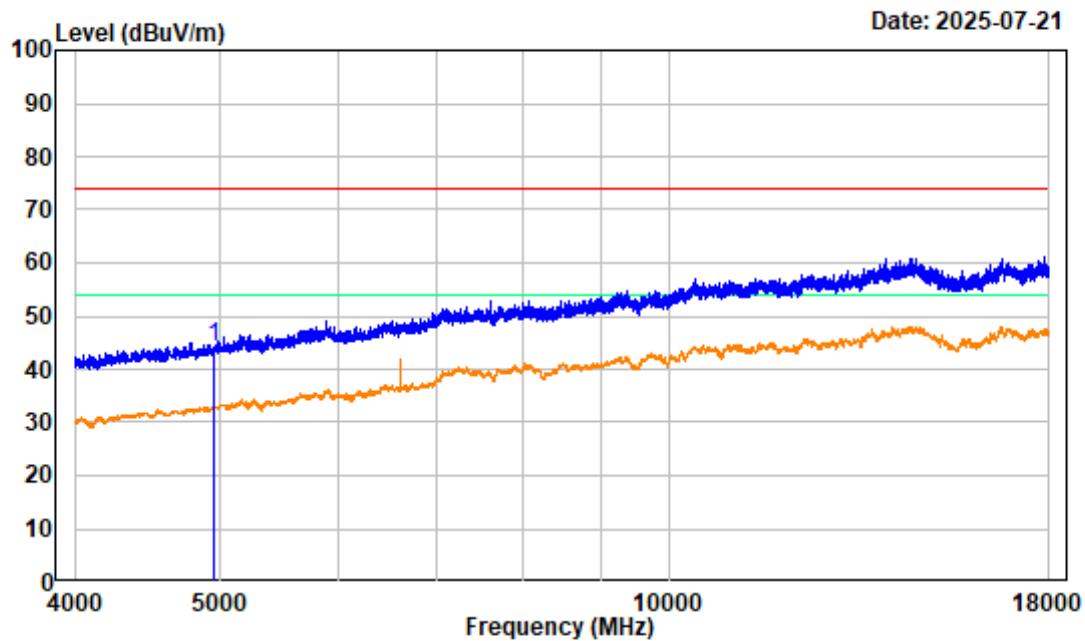
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit	Over	Remark
		Level	Level			
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 3892.375	-7.94	56.14	48.20	74.00	-25.80	Peak

## BLE 1M High Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

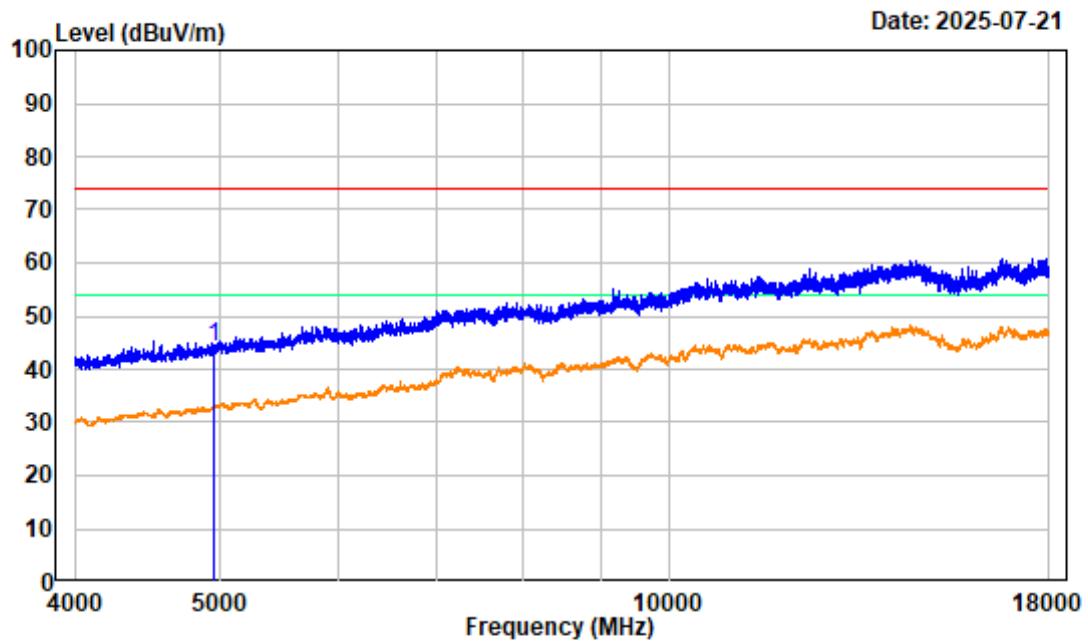
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	4960.750	-6.31	50.34	44.03	74.00	-29.97	Peak

## BLE 1M High Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

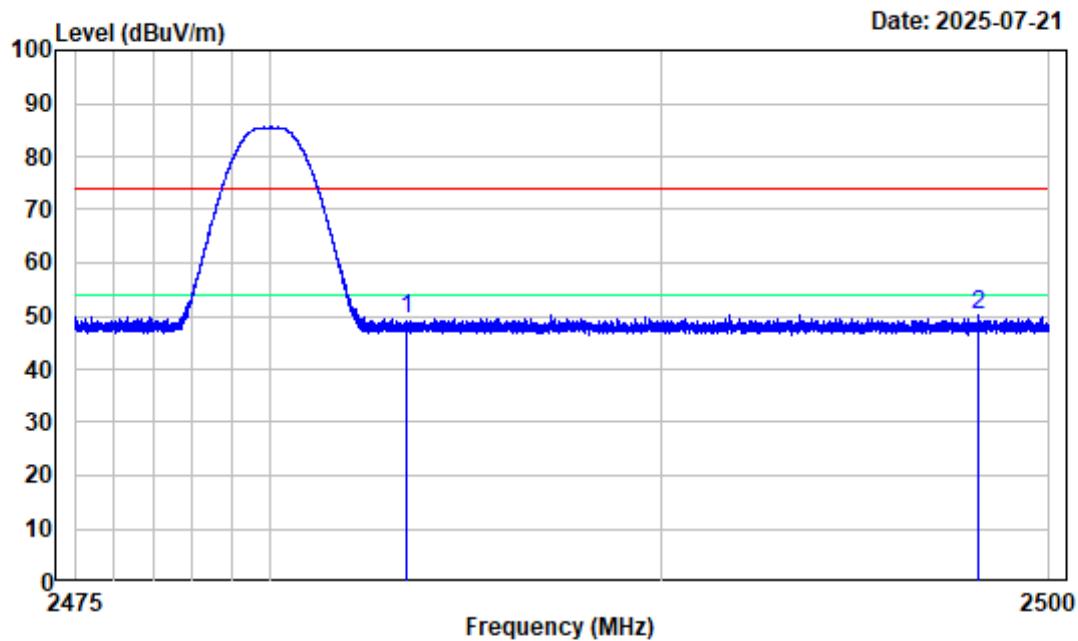
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	4960.750	-6.31	50.28	43.97	74.00	-30.03	Peak

## BLE 1M High Channel Bandedge\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

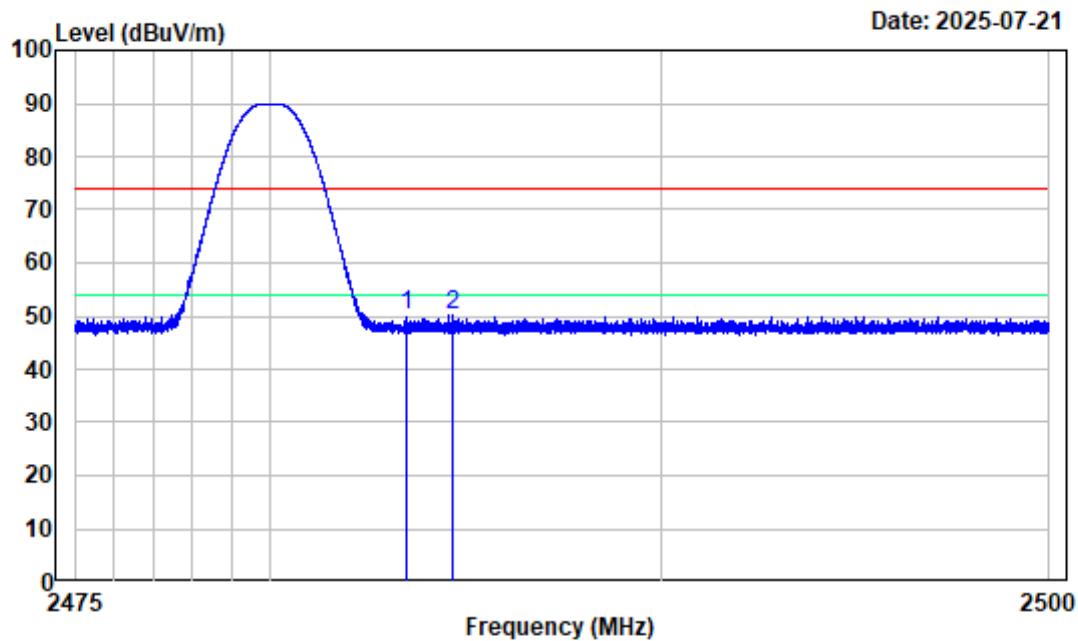
Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	
1	2483.500	-10.23	59.63	49.40	74.00	-24.60	peak
2	2498.188	-10.26	60.59	50.33	74.00	-23.67	Peak

## BLE 1M High Channel Bandedge\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M High Channel 2480MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	
1	2483.500	-10.23	60.30	50.07	74.00	-23.93	peak
2	2484.678	-10.23	60.30	50.07	74.00	-23.93	Peak

## FCC §15.247(a) (2)-6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### Test Procedure

According to ANSI C63.10-2020, section 11.8 and section 6.9

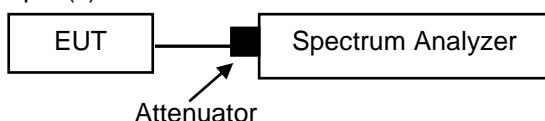
The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

According to ANSI C63.10-2020, section 7.8.6 and section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power 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; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



### Test Data

**Test Result:** Compliance. Please refer to the Appendix.

## FCC §15.247(b) (3)-MAXIMUM CONDUCTED OUTPUT POWER

### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

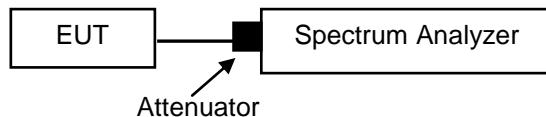
### Test Procedure

According to ANSI C63.10-2020, section 11.9.1.1

● Measurement using a spectrum analyzer (SA)

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq [3 \times \text{RBW}]$ .
- c) Set span  $\geq [3 \times \text{RBW}]$ .
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



### Test Data

**Test Result:** Compliance. Please refer to the Appendix.

## FCC §15.247(d)-100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

### Applicable Standard

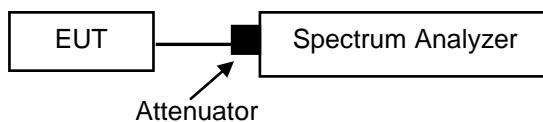
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

According to ANSI C63.10-2020, section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.  
NOTE—the number of points can also be increased for large spans to retain frequency resolution
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



### Test Data

**Test Result:** Compliance. Please refer to the Appendix.

## FCC §15.247(e)-POWER SPECTRAL DENSITY

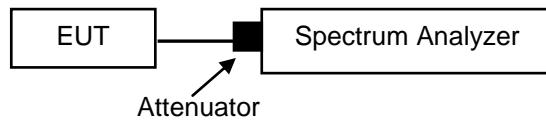
### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Procedure

According to ANSI C63.10-2020, section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span  $>1.5$  times the DTS bandwidth.
- c) Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



### Test Data

**Test Result:** Compliance. Please refer to the Appendix.

## APPENDIX

### Test Information:

<b>Sample No.:</b>	34RF-1	<b>Test Date:</b>	2025/07/11
<b>Test Site:</b>	RF	<b>Test Mode:</b>	Transmitting
<b>Tester:</b>	Cayde Hou	<b>Test Result:</b>	Pass

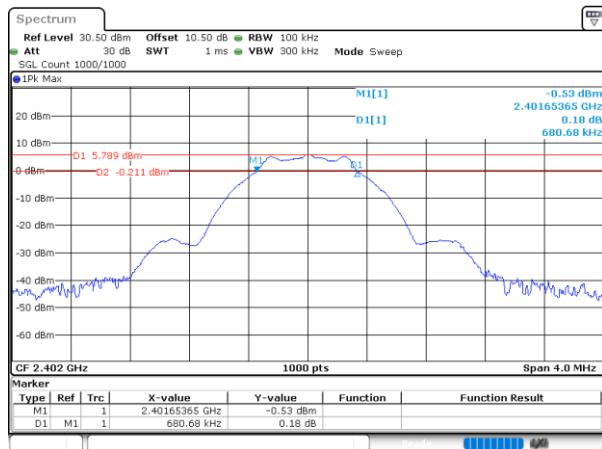
### Environmental Conditions:

<b>Temperature:</b> (°C)	25.9	<b>Relative Humidity:</b> (%)	44	<b>ATM Pressure:</b> (kPa)	100.1
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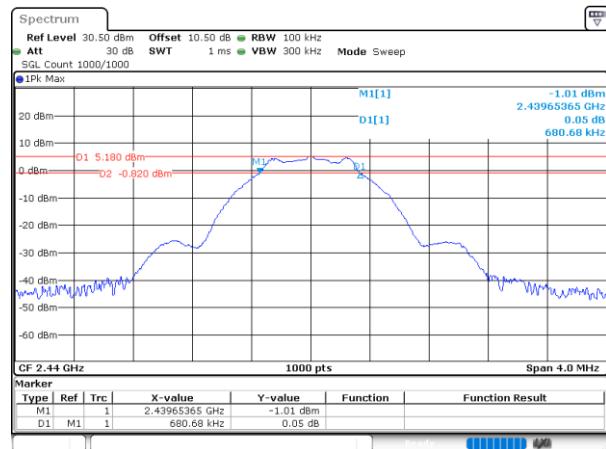
**6dB Emission Bandwidth****BLE 1M**

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.681	≥0.5	Pass
Middle	0.681	≥0.5	Pass
High	0.673	≥0.5	Pass

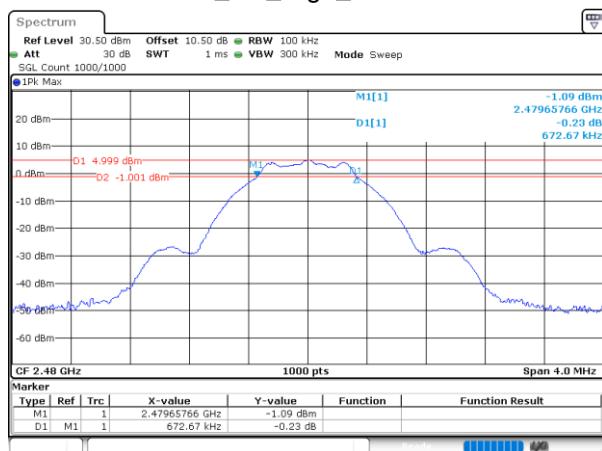
## BLE\_1M\_Low\_Channel



## BLE\_1M\_Middle\_Channel



## BLE\_1M\_High\_Channel

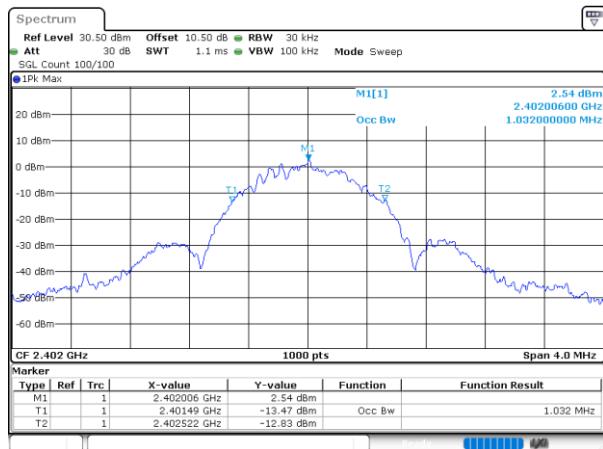


ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 14:57:35

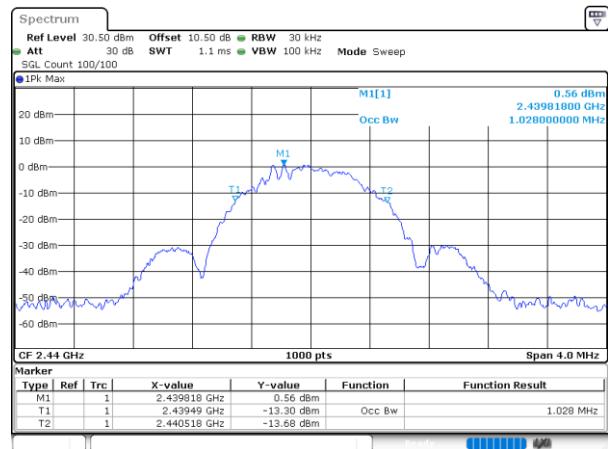
**99% Occupied Bandwidth****BLE 1M**

Channel	99% OBW (MHz)
Low	1.032
Middle	1.028
High	1.032

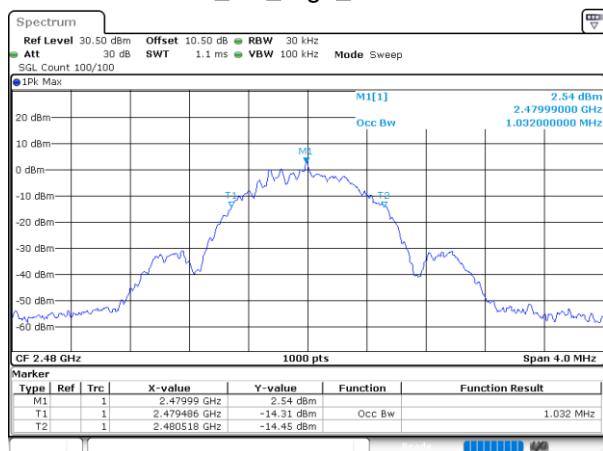
## BLE\_1M\_Low\_Channel



## BLE\_1M\_Middle\_Channel



## BLE\_1M\_High\_Channel

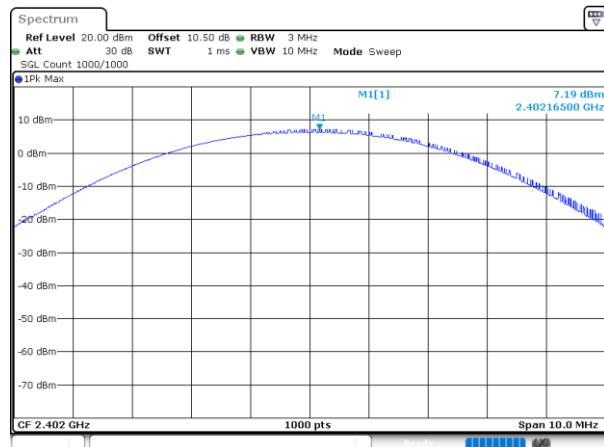


## Maximum Conducted Output Power

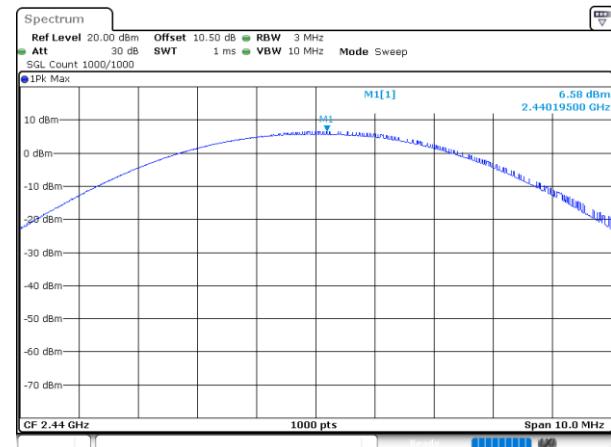
### BLE 1M

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
Low	7.19	30.00	Pass
Middle	6.58	30.00	Pass
High	5.17	30.00	Pass

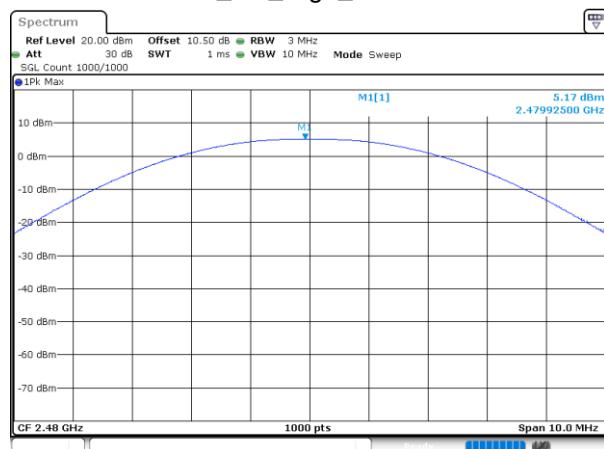
## BLE\_1M\_Low\_Channel



## BLE\_1M\_Middle\_Channel



## BLE\_1M\_High\_Channel

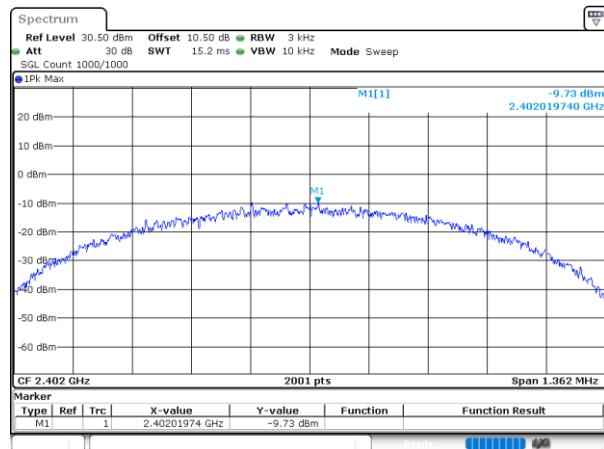


## Power Spectral Density

### BLE 1M

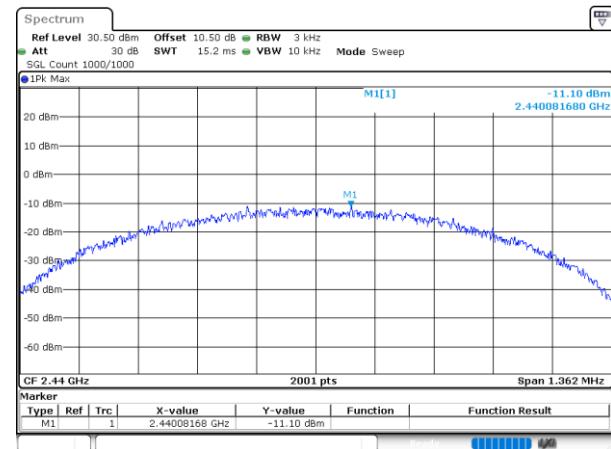
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-9.73	8	Pass
Middle	-11.10	8	Pass
High	-9.61	8	Pass

## BLE\_1M\_Low\_Channel



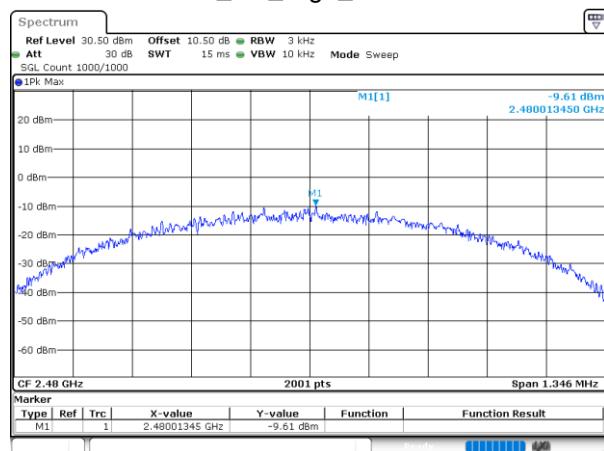
ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 14:59:02

## BLE\_1M\_Middle\_Channel



ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 15:00:51

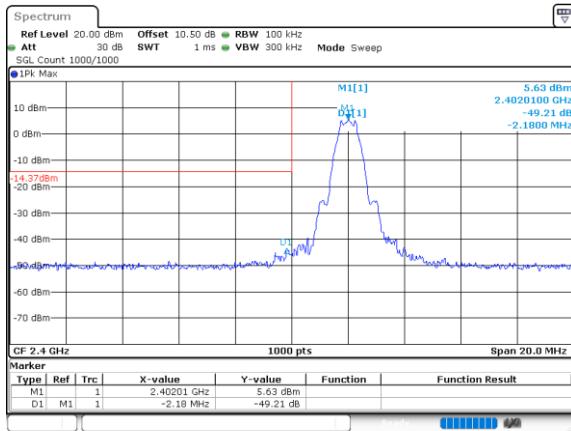
## BLE\_1M\_High\_Channel



ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 15:02:54

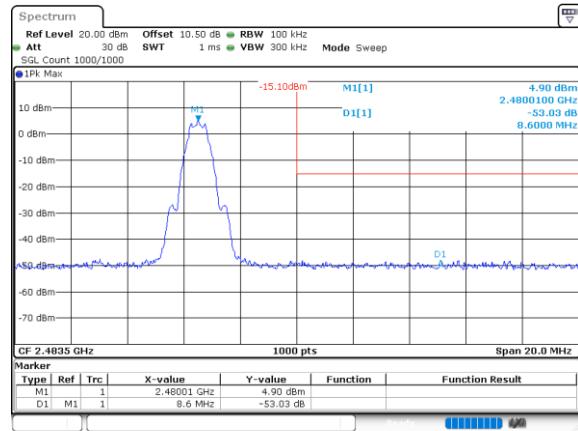
## 100 kHz Bandwidth of Frequency Band Edge

BLE\_1M\_Low\_Channel



ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 14:57:59

BLE\_1M\_High\_Channel



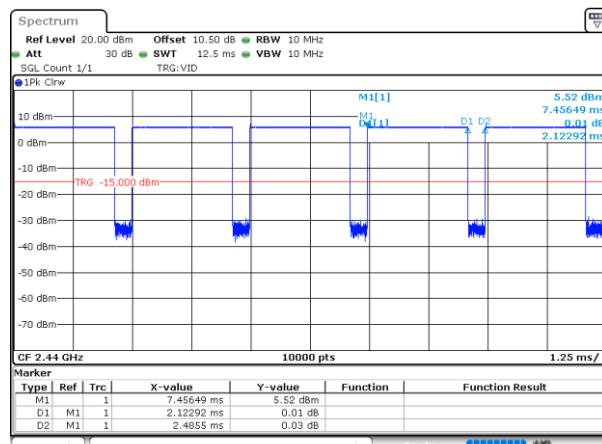
ProjectNo.:2504V05608E-RF Tester:Cayde Hou  
Date: 11.JUL.2025 15:01:50

## Duty Cycle

### BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	2.123	2.485	85.43	0.68	471	0.500

## BLE\_1M\_Middle\_Channel

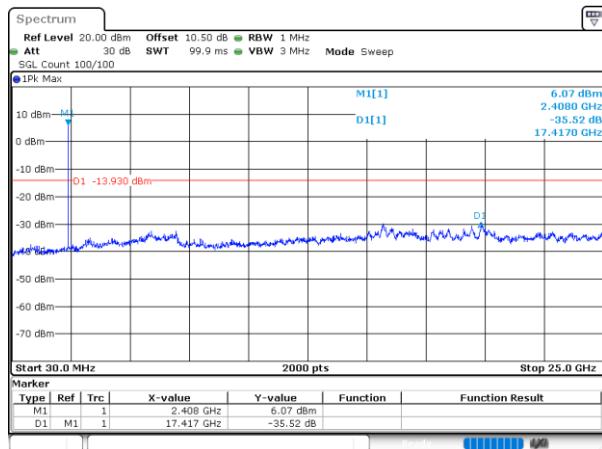


## Conducted Spurious Emission

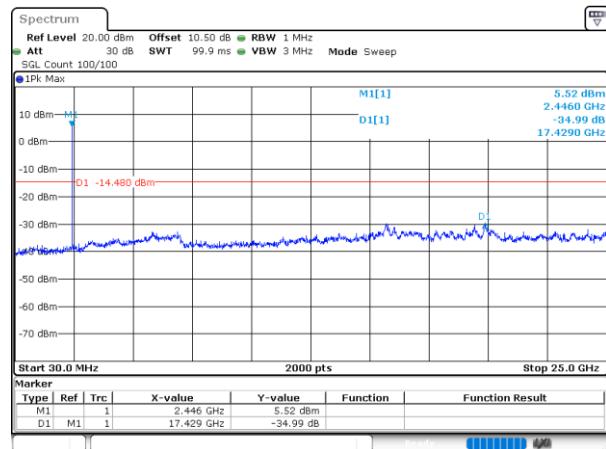
### BLE 1M

Channel	Result (dB)	Limit (dB)	Verdict
Low	35.52	20	Pass
Middle	34.99	20	Pass
High	34.98	20	Pass

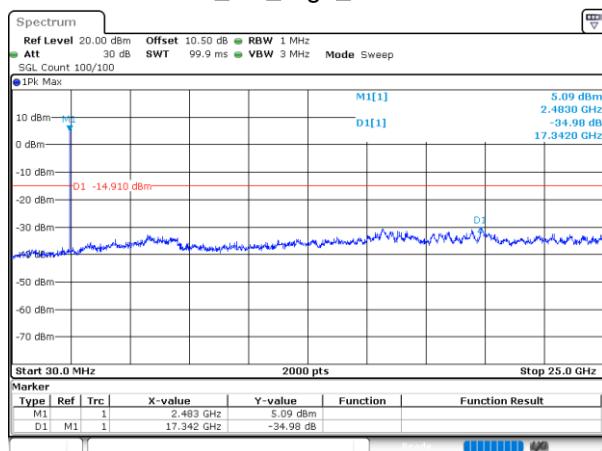
## BLE\_1M\_Low\_Channel



## BLE\_1M\_Middle\_Channel



## BLE\_1M\_High\_Channel



## **EXHIBIT A-EUT PHOTOGRAPHS**

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Please refer to the Attachment No.1 2504V05608E-RF EUT External Photos and Attachment No.2 2504V05608E-RF EUT Internal Photos.

## **EXHIBIT B-TEST SETUP PHOTOGRAPHS**

Please refer to the Attachment No.3 2504V05608E-RF Test Photos.

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