



TEST REPORT

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Report Number: 2504R26435E-RF-00A
FCC ID: 2AMYQ-2025HXLH660S

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Robotic vacuum cleaner
Model No.: H660, H680, H1500
Trade Mark: N/A
Date Received: 2025-03-13
Date of Test: 2025-03-27 to 2025-05-09
Report Date: 2025-05-12

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

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Matt Liang
EMC Engineer

Approved By:

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Bob Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504R26435E-RF-00A	Original Report	2025-05-12

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Robotic vacuum cleaner
Tested Model	H660, H680, H1500
Multiple Model	N/A
Frequency Range	BLE 1M: 2402-2480MHz
Maximum Conducted Peak Output Power	7.20dBm
Modulation Technique	GFSK
Antenna Specification [#]	2.0dBi(It is provided by the applicant.)
Voltage Range [#]	Model H660: DC 19V from Charging Base or DC 14.4V from Battery or DC 14.6V from Battery
	Model H680: DC 19V from Intelligent Sweeping Robot Dust Collector or DC 14.4V from Battery or DC 14.6V from Battery
	Model H1500: DC 19V from Base Station or DC 14.4V from Battery or DC 14.6V from Battery
Sample Serial Number	H660: 2ZQ0-1, H680: 2ZQ0-3, H1500: 2ZQ0-4 (For CE&RE Test) Main Body(H660): 2ZPZ-2 (For RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Adapter 1 Information [#] (For model H660)	Model: TEKA-AC1B190100US Input: AC 100-240V, 50/60Hz, 0.5A, Max Output: 19.0V $\overline{\text{---}}$ 1.0A
Adapter 2 Information [#] (For model H660)	Model: TEKA-AB1B190060US Input: AC 100-240V, 50/60Hz, 0.35A, Max Output: 19.0V $\overline{\text{---}}$ 0.6A
Battery 1 Information [#] (For model H660/H680/1500)	Model: HYY2121005 Nominal Voltage: 14.4V Typical Capacity: 5100mAh
Battery 2 Information [#] (For model H660/H680/1500)	Model: 18650-4S2P Nominal Voltage: 14.6V Typical Capacity: 5200mAh
Battery 3 Information [#] (For model H660/H680)	Model: HYY2121004 Nominal Voltage: 14.4V Typical Capacity: 2550mAh
Battery 4 Information [#] (For model H660/H680)	Model: 18650-4S1P Nominal Voltage: 14.6V Typical Capacity: 2600mAh
Note 1 [#] : The Robotic vacuum cleaner includes main body and accessories. Note 2 [#] : The Multiple models are electrically identical with the test model except for model name, package type, adapter, battery and bottom view of vacuum cleaner. Please refer to the declaration letter [#] for more detail, which was provided by applicant. Note 3: All tests were performed with the worst case was 5200mAh battery.	

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		0.064×10^{-7}
RF output power, conducted		0.3dB
Unwanted Emission, conducted		1.2dB
AC Power Lines Conducted Emissions		2.7 dB
Emissions, Radiated	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3dB
	1GHz - 18GHz	4.9dB
	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

For BLE,40 channels are provided to testing:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2402	11	2422	21	2442	31	2462
2	2404	12	2424	22	2444	32	2464
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
9	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

EUT was tested with Channel 0, 19 and 39.

EUT Exercise Software and Power Level[#]

Exercise Software:	Secure CRT
Power Level:	0x1F

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
Hua Xin	Base Station	H1500	Unknown

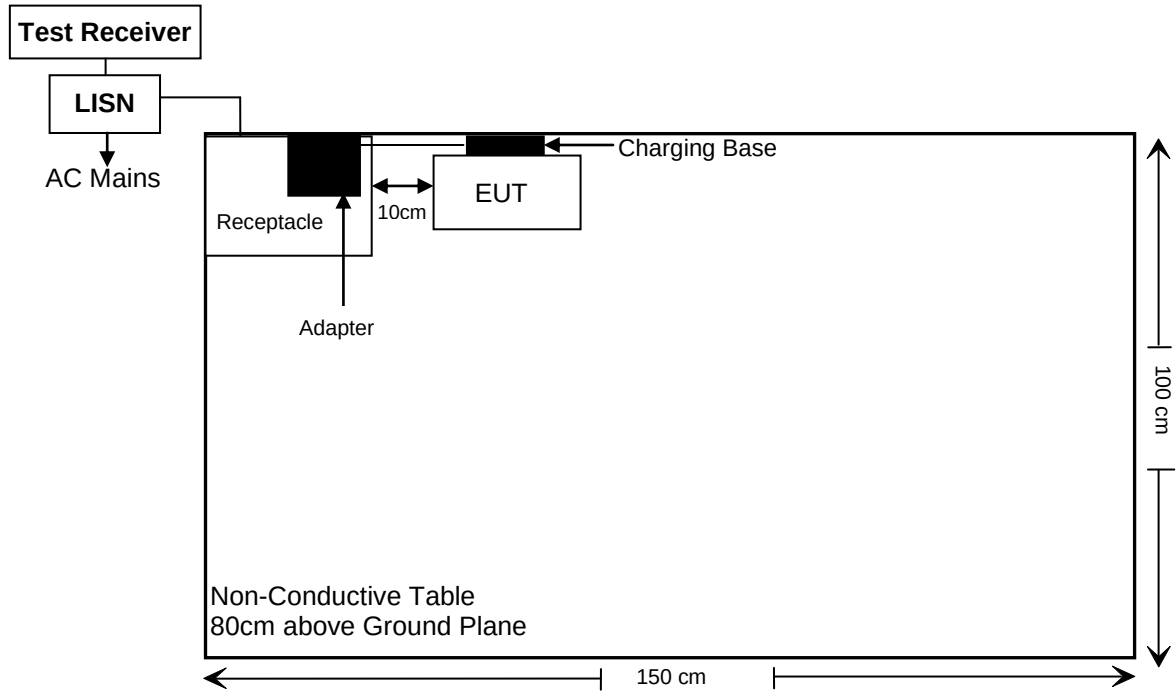
External I/O Cable

Cable Description	Shielding Type	Length (m)	From Port	To
AC cable	No	1.0	Receptacle	LISN
DC Cable	No	1.85	Adapter	Charging Base
AC Cable	No	1.4	LISN/Receptacle	Intelligent Sweeping Robot Dust Collector
AC Cable	No	1.75	LISN/Receptacle	Base Station

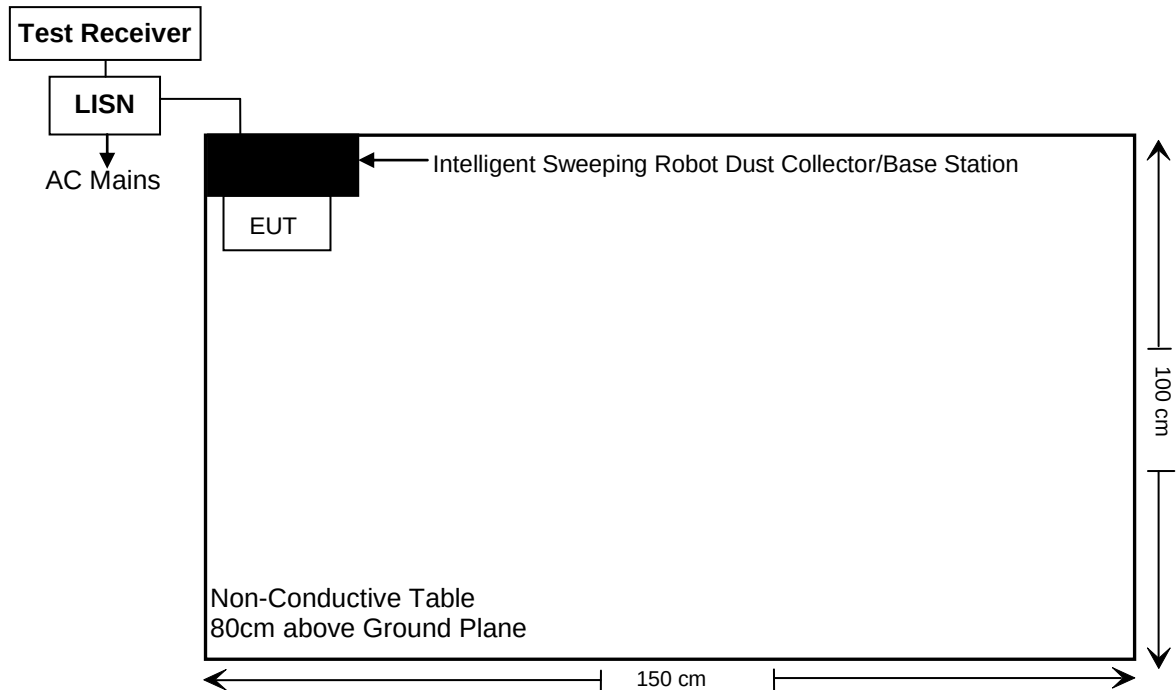
Block Diagram of Test Setup

For Conducted Emission:

For 2ZQ0-1

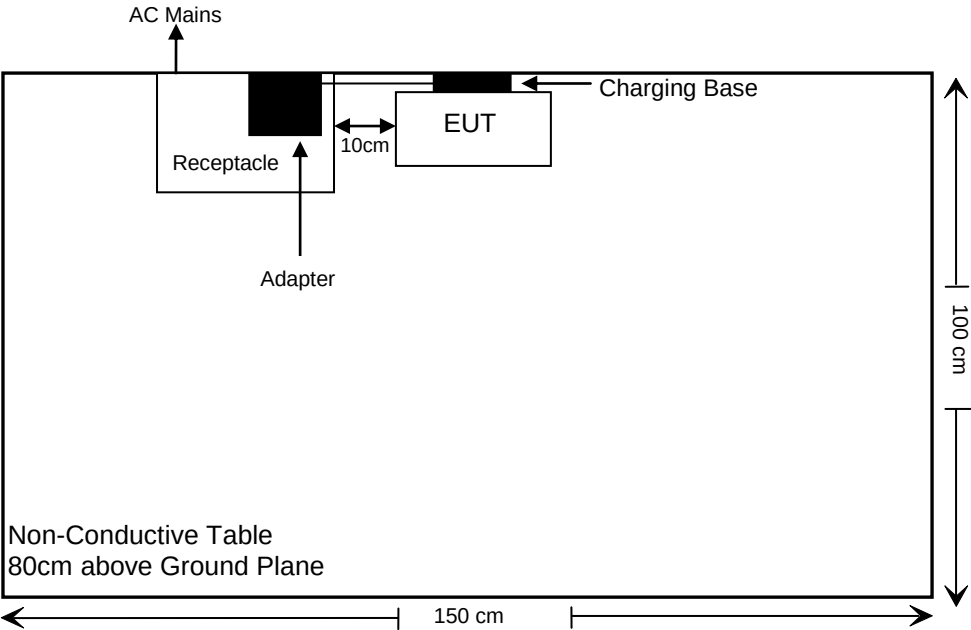


For 2ZQ0-3 / 2ZQ0-4

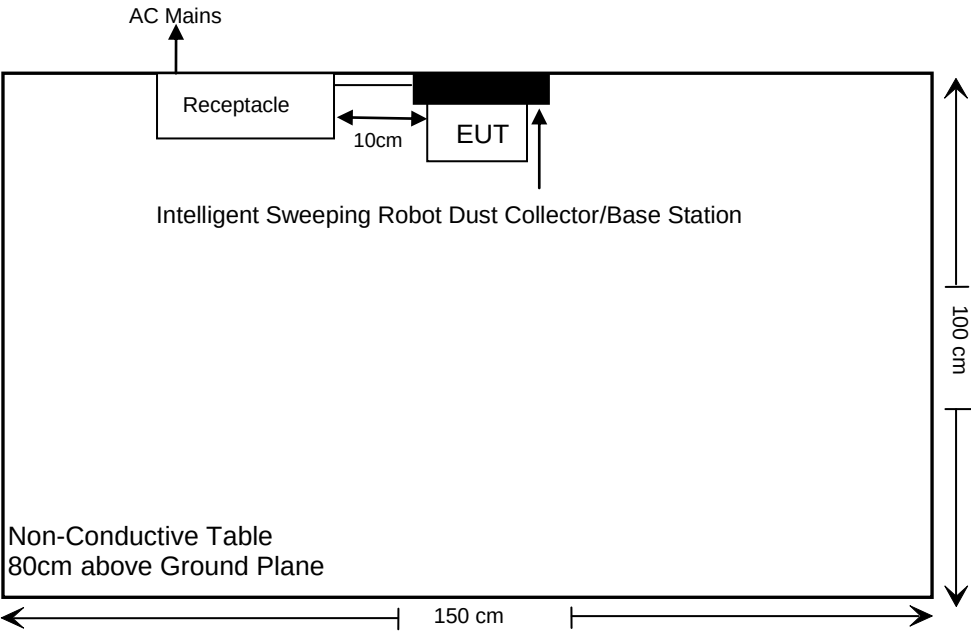


For Radiated Emission Below 1GHz:

For 2ZQ0-1(H660)

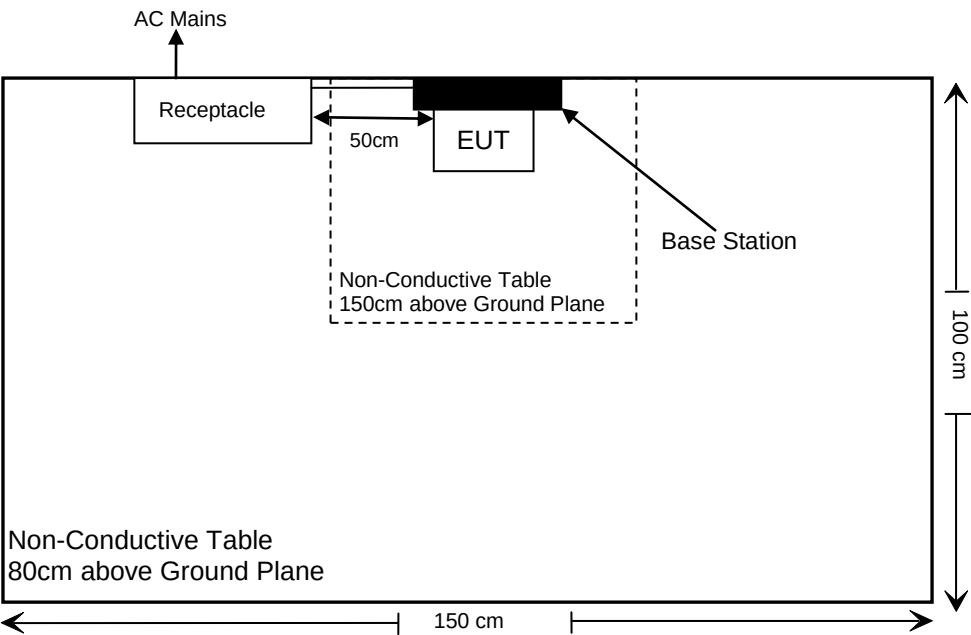


For 2ZQ0-3(H680) / 2ZQ0-4(H1500)



For Radiated Emission Above 1GHz:

For 2ZQ0-4(H1500)



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310&§2.1091	RF Exposure	Compliance
§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, the maximum output power mode and channel was tested.

Note 3: This device is installed vertically in X-axes orientation. It was provided by applicant. The X-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
Conducted Emissions Test					
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	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.17	N0350	2024/10/08	2025/10/07
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Below 1GHz)					
Rohde& Schwarz	Test Receiver	ESR	102725	2024/11/08	2025/11/07
SONOMA INSTRUMENT	Amplifier	310N	186131	2024/05/24	2025/05/23
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.13	N300	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.14	N800	2024/10/08	2025/10/07
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)					
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	2024/05/24	2025/05/23
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.11	N1000	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.19	N500	2024/10/08	2025/10/07
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2024/07/05	2025/07/04
Unknown	RF Coaxial Cable	No.15	N600	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.16	N650	2024/10/08	2025/10/07
Test Software: e3 191218 (V9)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101948	2024/10/08	2025/10/07
WEINSCHEL	10dB Attenuator	5324	AU 3842	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).

RF EXPOSURE

Applicable Standard

According to FCC §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 –MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

Table to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

f = frequency in MHz;

R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Test result

For worst case:

Mode	Frequency Range (MHz)	Maximum Conducted Output Power (dBm)	Tune-Up Conducted Output Power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (cm)	MPE-Based Exemption (mW)
				(dBi)	(dBd)	(dBm)	(mW)		
BLE	2402-2480	7.20	8.0	2.0	-0.15	7.85	6.1	20	768.0
2.4G WIFI	2412-2462	23.60	24.0	2.0	-0.15	23.85	242.66	20	768.0

Note 1: The tune-up conducted power and antenna gain were declared by the applicant.

Note 2: 0dBd=2.15dBi.

Note 3: The BLE and 2.4G WIFI can't transmission simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance.

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
2402-2480 MHz	2.0 dBi

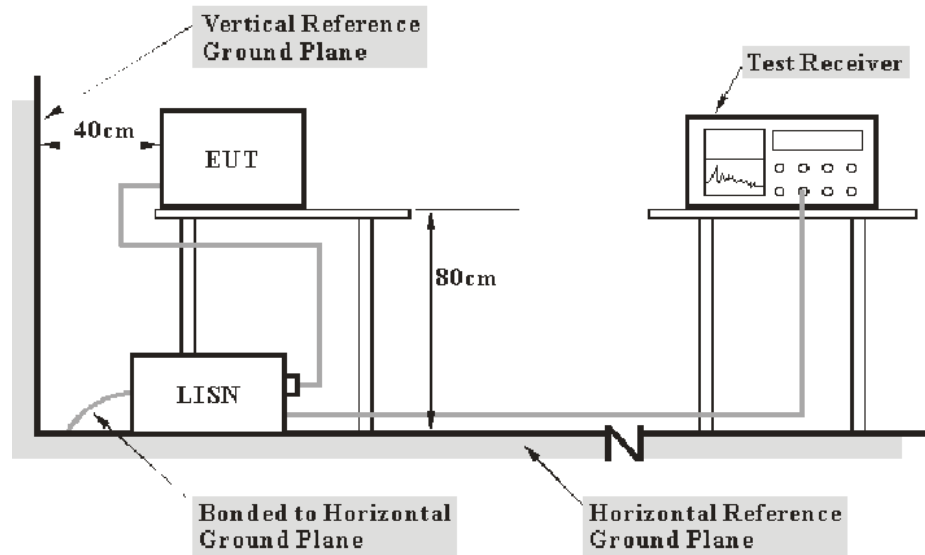
Result: Compliance.

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 (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.

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 30MHz.
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), Cable Loss and Limiter Attenuation. 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 -7dB 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

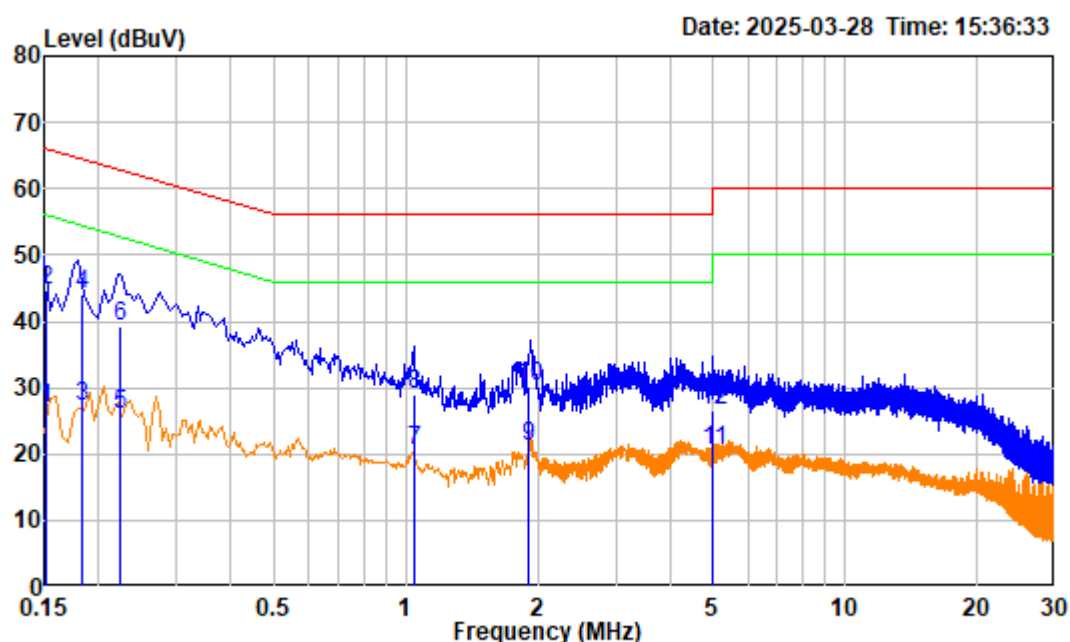
Temperature:	21.6℃
Relative Humidity:	52 %
ATM Pressure:	100.4 kPa
Test Engineer:	Jason Fan
Test Date:	2025-03-28
EUT Operation Mode:	BLE Transmitting

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

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

For 2ZQ0-1(H660), Adapter 1

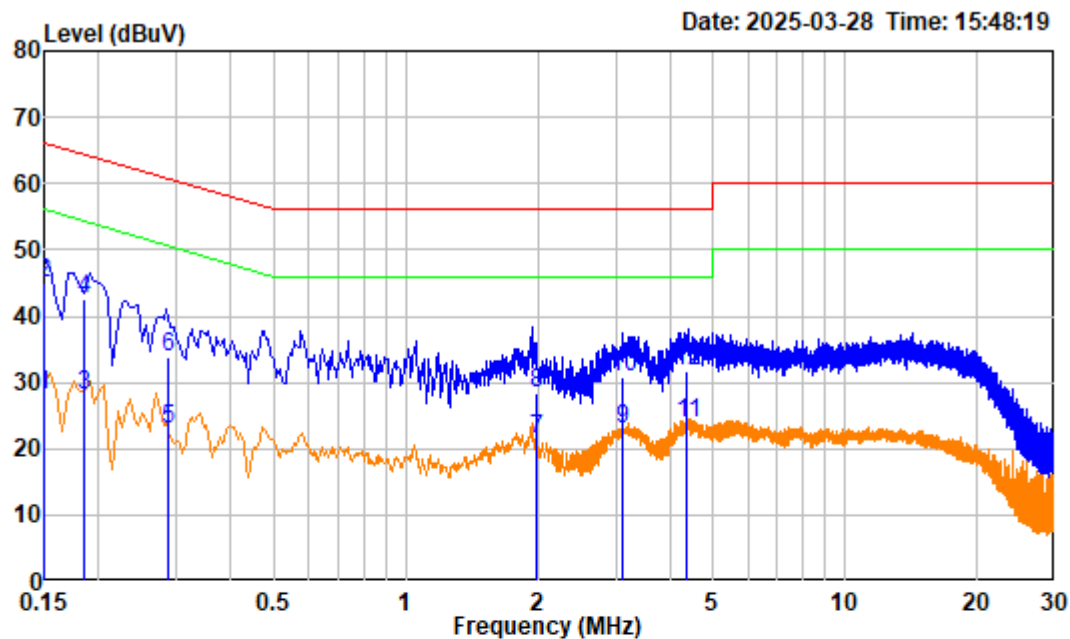
AC 120V/60Hz, Line:



Site : Shielding Room
 Condition : Line
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H660 Adapter 1#
 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	0.152	20.03	6.96	26.99	55.92	-28.93	Average
2	0.152	20.03	24.76	44.79	65.92	-21.13	QP
3	0.183	20.16	7.06	27.22	54.37	-27.15	Average
4	0.183	20.16	24.05	44.21	64.37	-20.16	QP
5	0.223	20.20	5.68	25.88	52.70	-26.82	Average
6	0.223	20.20	19.00	39.20	62.70	-23.50	QP
7	1.041	20.32	0.13	20.45	46.00	-25.55	Average
8	1.041	20.32	8.64	28.96	56.00	-27.04	QP
9	1.908	20.40	0.86	21.26	46.00	-24.74	Average
10	1.908	20.40	9.85	30.25	56.00	-25.75	QP
11	5.010	20.52	0.06	20.58	50.00	-29.42	Average
12	5.010	20.52	6.19	26.71	60.00	-33.29	QP

AC 120V/60Hz, Neutral:

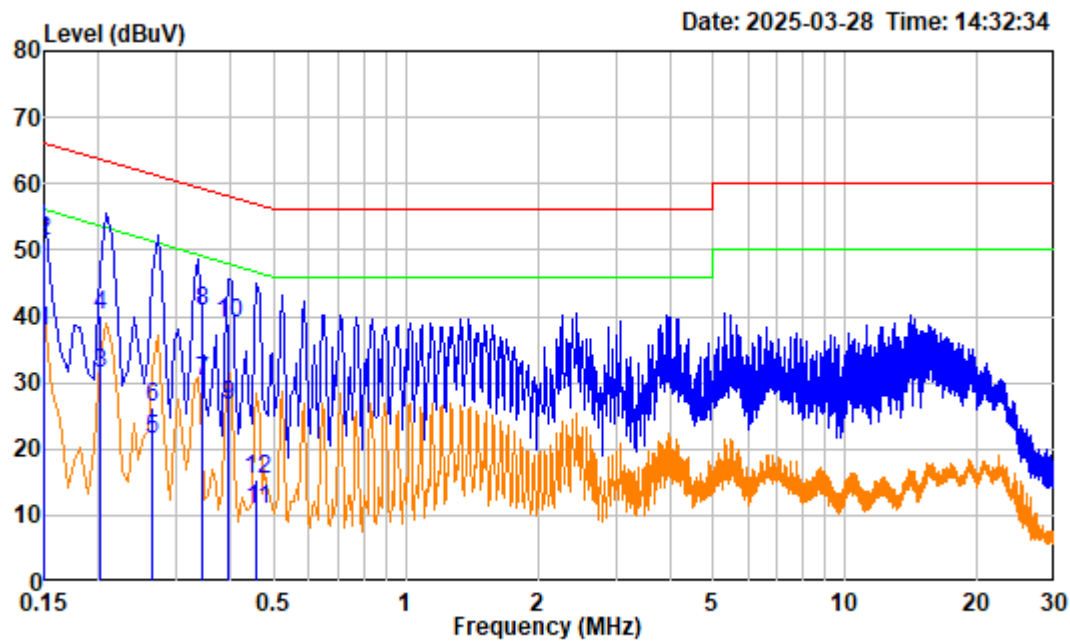


Site : Shielding Room
 Condition : neutral
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H660 Adapter 1#
 Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.151	19.92	8.15	28.07	55.97	-27.90	Average
2	0.151	19.92	24.99	44.91	65.97	-21.06	QP
3	0.184	19.85	8.10	27.95	54.28	-26.33	Average
4	0.184	19.85	22.59	42.44	64.28	-21.84	QP
5	0.286	19.82	3.21	23.03	50.64	-27.61	Average
6	0.286	19.82	13.95	33.77	60.64	-26.87	QP
7	1.973	20.21	1.08	21.29	46.00	-24.71	Average
8	1.973	20.21	8.21	28.42	56.00	-27.58	QP
9	3.105	20.21	2.70	22.91	46.00	-23.09	Average
10	3.105	20.21	10.57	30.78	56.00	-25.22	QP
11	4.363	20.29	3.42	23.71	46.00	-22.29	Average
12	4.363	20.29	11.32	31.61	56.00	-24.39	QP

For 2ZQ0-1(H660), Adapter 2

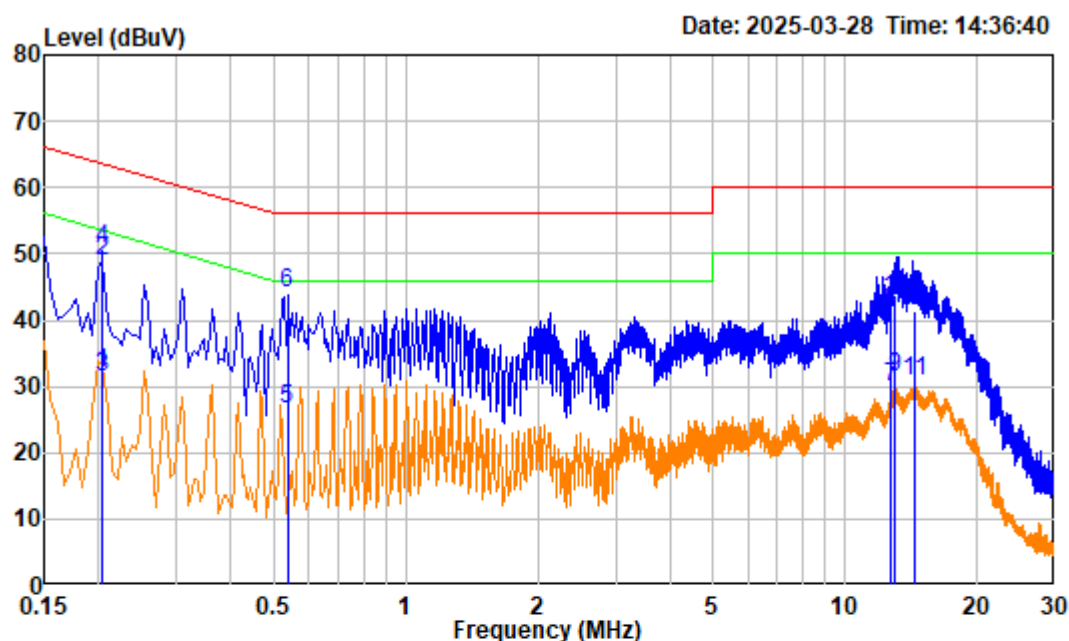
AC 120V/60Hz, Line:



Site : Shielding Room
 Condition : Line
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H660 Adapter 2#
 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	0.150	20.02	17.57	37.59	55.99	-18.40	Average
2	0.150	20.02	31.18	51.20	65.99	-14.79	QP
3	0.202	20.22	11.07	31.29	53.52	-22.23	Average
4	0.202	20.22	19.97	40.19	63.52	-23.33	QP
5	0.265	20.16	1.15	21.31	51.28	-29.97	Average
6	0.265	20.16	6.08	26.24	61.28	-35.04	QP
7	0.344	20.10	10.22	30.32	49.12	-18.80	Average
8	0.344	20.10	20.65	40.75	59.12	-18.37	QP
9	0.393	20.07	6.41	26.48	48.00	-21.52	Average
10	0.393	20.07	19.01	39.08	58.00	-18.92	QP
11	0.458	20.04	-9.29	10.75	46.74	-35.99	Average
12	0.458	20.04	-4.76	15.28	56.74	-41.46	QP

AC 120V/60Hz, Neutral:

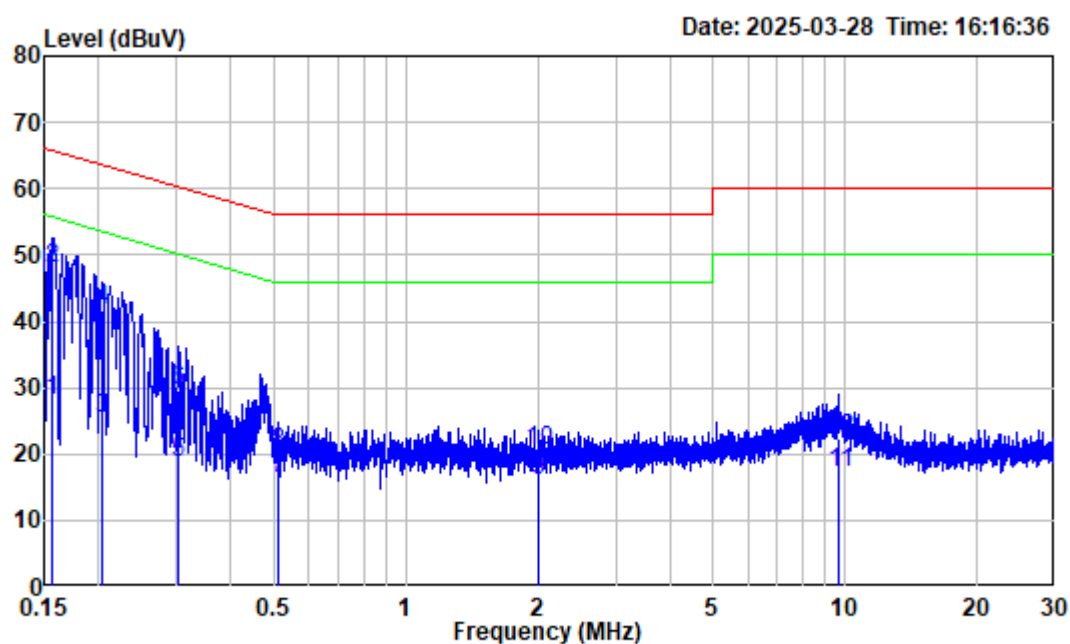


Site : Shielding Room
 Condition : neutral
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H660 Adapter 2#
 Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.203	19.82	12.24	32.06	53.47	-21.41	Average
2	0.203	19.82	29.13	48.95	63.47	-14.52	QP
3	0.204	19.82	11.72	31.54	53.46	-21.92	Average
4	0.204	19.82	30.82	50.64	63.46	-12.82	QP
5	0.537	19.93	6.69	26.62	46.00	-19.38	Average
6	0.537	19.93	24.17	44.10	56.00	-11.90	QP
7	12.734	20.20	9.60	29.80	50.00	-20.20	Average
8	12.734	20.20	21.12	41.32	60.00	-18.68	QP
9	13.027	20.19	11.09	31.28	50.00	-18.72	Average
10	13.027	20.19	22.99	43.18	60.00	-16.82	QP
11	14.319	20.14	10.50	30.64	50.00	-19.36	Average
12	14.319	20.14	21.28	41.42	60.00	-18.58	QP

For 2ZQ0-3(H680)

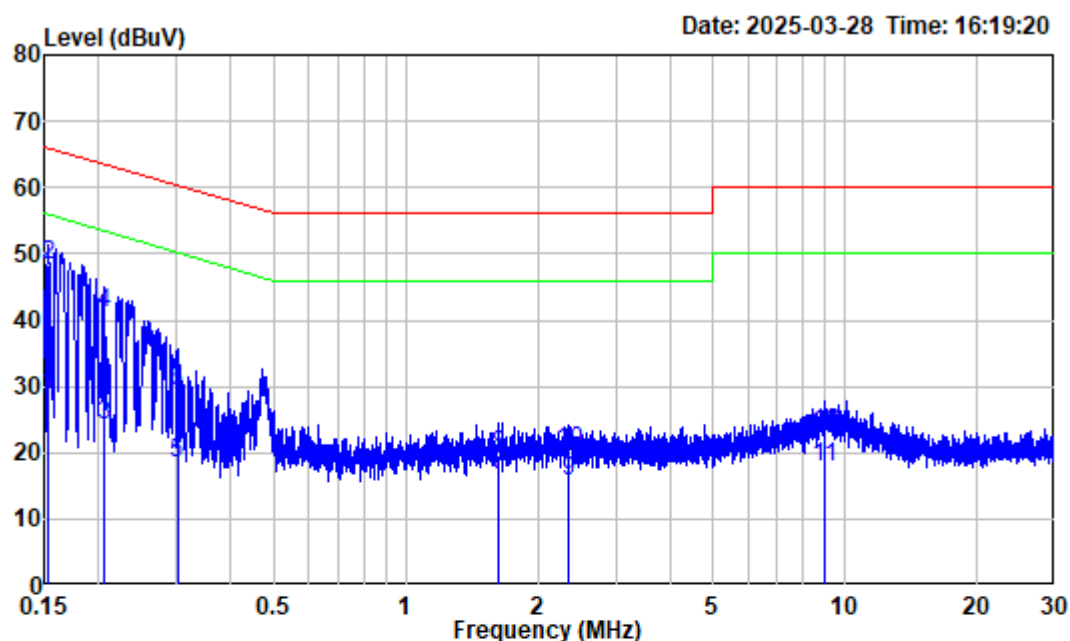
AC 120V/60Hz, Line:



Site : Shielding Room
 Condition : Line
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H680
 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	0.157	20.05	8.10	28.15	55.61	-27.46	Average
2	0.157	20.05	27.90	47.95	65.61	-17.66	QP
3	0.204	20.22	5.08	25.30	53.45	-28.15	Average
4	0.204	20.22	21.57	41.79	63.45	-21.66	QP
5	0.304	20.13	-1.41	18.72	50.14	-31.42	Average
6	0.304	20.13	9.37	29.50	60.14	-30.64	QP
7	0.510	20.03	-3.60	16.43	46.00	-29.57	Average
8	0.510	20.03	0.17	20.20	56.00	-35.80	QP
9	2.011	20.41	-4.51	15.90	46.00	-30.10	Average
10	2.011	20.41	0.06	20.47	56.00	-35.53	QP
11	9.705	19.88	-2.60	17.28	50.00	-32.72	Average
12	9.705	19.88	2.55	22.43	60.00	-37.57	QP

AC 120V/60Hz, Neutral:

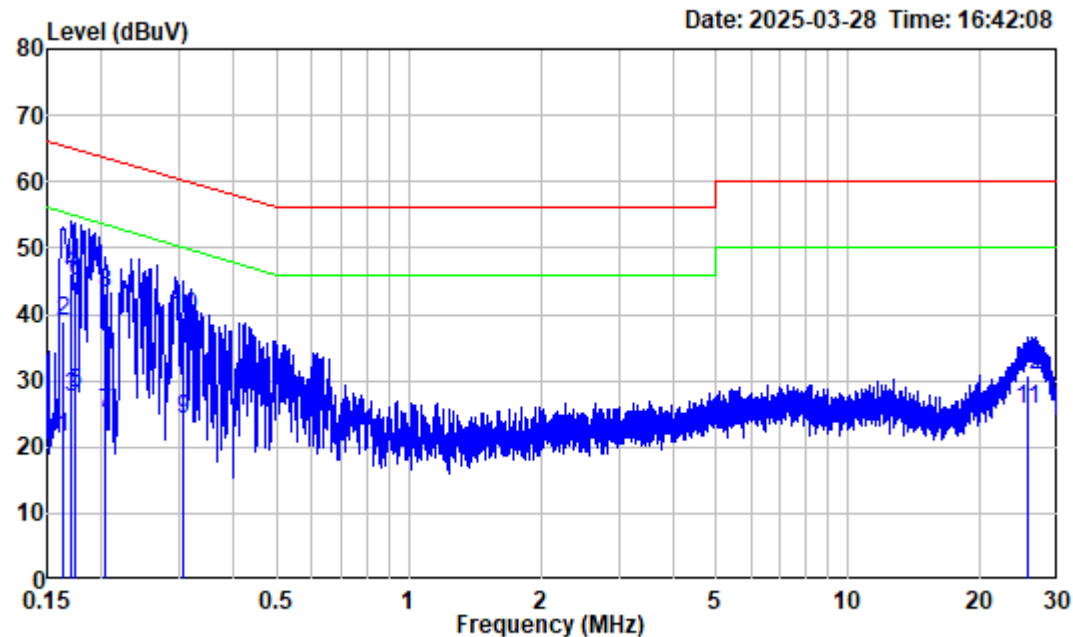


Site : Shielding Room
 Condition : Neutral
 Project No. : 2504R26435E-RF Tester:Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H680
 Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.153	19.91	8.83	28.74	55.82	-27.08	Average
2	0.153	19.91	28.47	48.38	65.82	-17.44	QP
3	0.205	19.82	4.43	24.25	53.40	-29.15	Average
4	0.205	19.82	21.34	41.16	63.40	-22.24	QP
5	0.301	19.82	-1.36	18.46	50.20	-31.74	Average
6	0.301	19.82	9.59	29.41	60.20	-30.79	QP
7	1.628	20.27	-3.61	16.66	46.00	-29.34	Average
8	1.628	20.27	-0.58	19.69	56.00	-36.31	QP
9	2.344	20.21	-4.55	15.66	46.00	-30.34	Average
10	2.344	20.21	0.03	20.24	56.00	-35.76	QP
11	8.982	20.36	-2.51	17.85	50.00	-32.15	Average
12	8.982	20.36	2.49	22.85	60.00	-37.15	QP

For 2ZQ0-4(H1500)

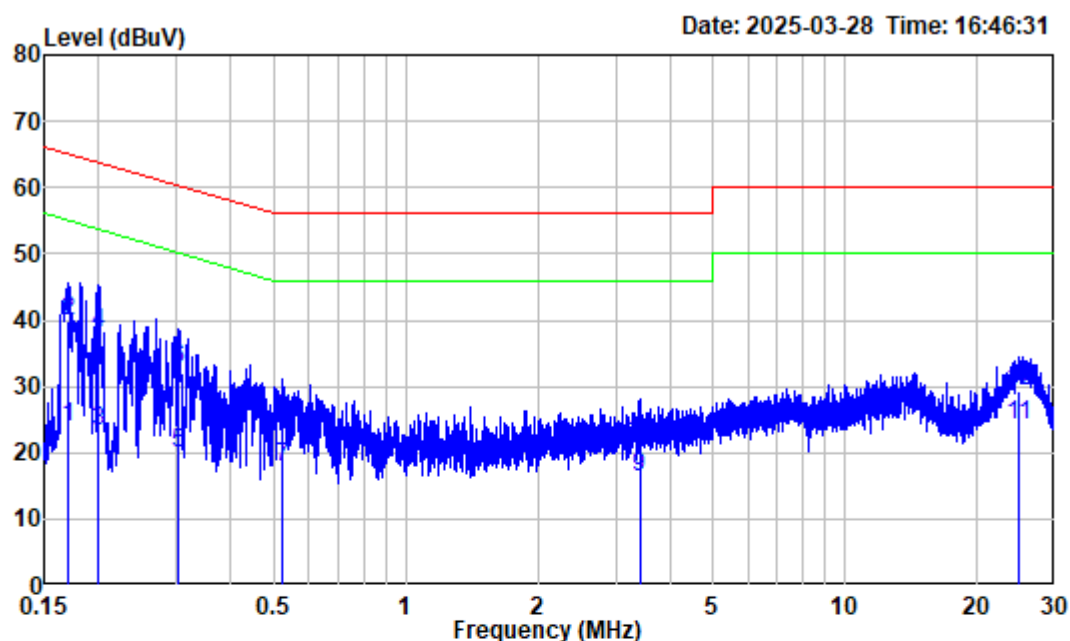
AC 120V/60Hz, Line:



Site : Shielding Room
Condition : Line
Project No. : 2504R26435E-RF Tester:Jason Fan
Test Mode : BLE Transmitting
NOTE : H1500
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	0.163	20.08	1.32	21.40	55.32	-33.92	Average
2	0.163	20.08	18.95	39.03	65.32	-26.29	QP
3	0.171	20.11	7.45	27.56	54.93	-27.37	Average
4	0.171	20.11	26.08	46.19	64.93	-18.74	QP
5	0.174	20.12	8.10	28.22	54.78	-26.56	Average
6	0.174	20.12	24.80	44.92	64.78	-19.86	QP
7	0.203	20.22	4.86	25.08	53.49	-28.41	Average
8	0.203	20.22	23.06	43.28	63.49	-20.21	QP
9	0.306	20.13	4.05	24.18	50.07	-25.89	Average
10	0.306	20.13	19.52	39.65	60.07	-20.42	QP
11	25.574	19.70	5.89	25.59	50.00	-24.41	Average
12	25.574	19.70	11.05	30.75	60.00	-29.25	QP

AC 120V/60Hz, Neutral:



Site : Shielding Room
 Condition : Neutral
 Project No. : 2504R26435E-RF Tester: Jason Fan
 Test Mode : BLE Transmitting
 NOTE : H1500
 Receiver Setting: IF B/W 9kHz PK/AV

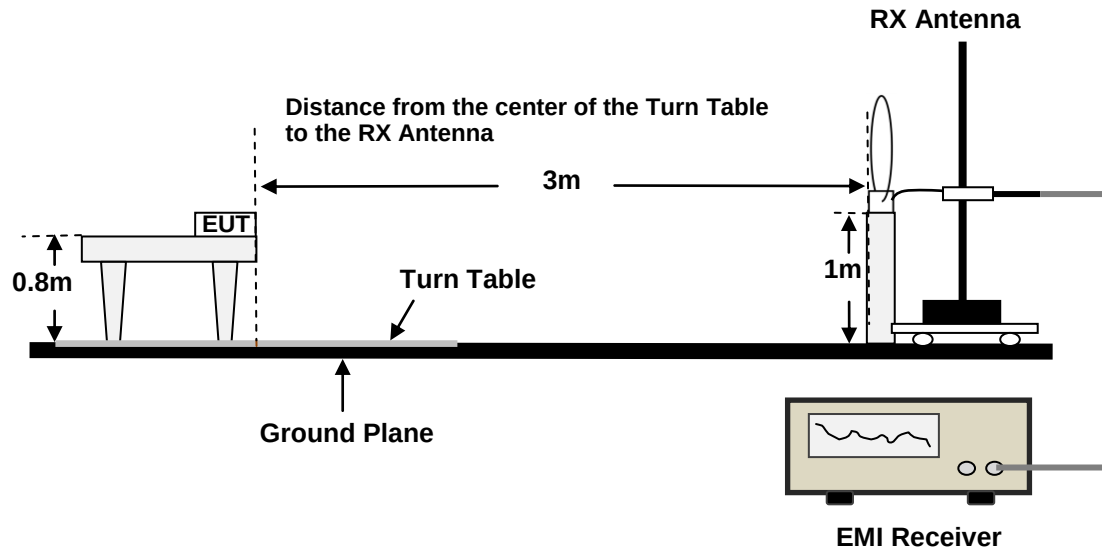
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.170	19.88	4.10	23.98	54.98	-31.00	Average
2	0.170	19.88	19.83	39.71	64.98	-25.27	QP
3	0.200	19.82	3.56	23.38	53.61	-30.23	Average
4	0.200	19.82	18.33	38.15	63.61	-25.46	QP
5	0.303	19.82	0.10	19.92	50.15	-30.23	Average
6	0.303	19.82	12.93	32.75	60.15	-27.40	QP
7	0.525	19.89	-1.98	17.91	46.00	-28.09	Average
8	0.525	19.89	5.28	25.17	56.00	-30.83	QP
9	3.402	20.22	-3.83	16.39	46.00	-29.61	Average
10	3.402	20.22	1.33	21.55	56.00	-34.45	QP
11	24.823	19.87	4.14	24.01	50.00	-25.99	Average
12	24.823	19.87	9.28	29.15	60.00	-30.85	QP

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

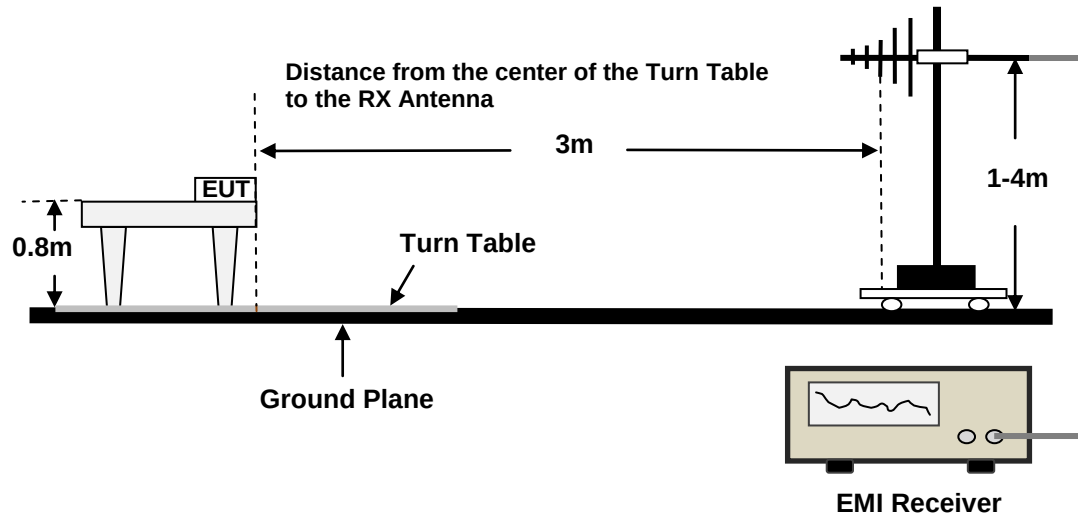
FCC §15.205; §15.209; §15.247(d)

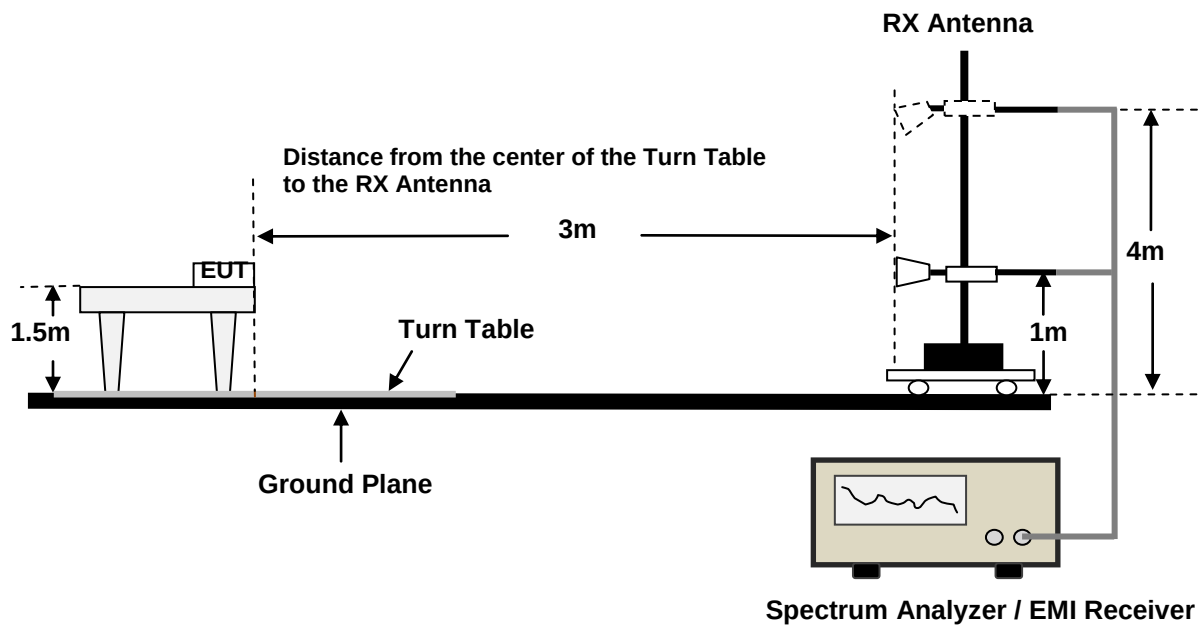
EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

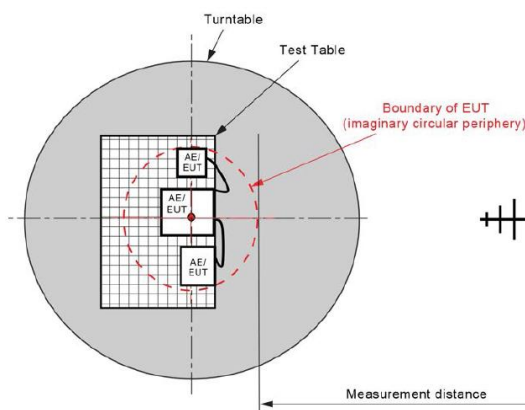


Figure C.1 – Measurement distance

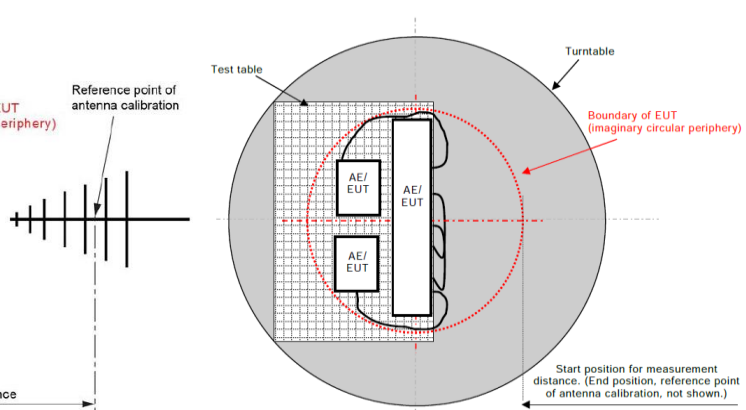


Figure C.2 –Boundary of EUT, Local AE and associated cabling

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 to25 GHz.

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	/	/	600Hz	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
Ave.	Peak	>98%	1MHz	3kHz
		<98%	1MHz	≥1/T, no less than 5 kHz

Final measurement for emission identified during the pre-scan:

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

Note 1: T is minimum transmission duration

Note 2: Fundamental test with 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

$E_{SpecLimit}$	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
$D_{SpecLimit}$	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

Temperature:	21.8-23.6℃
Relative Humidity:	53-56 %
ATM Pressure:	100.2-101.3 kPa
Test Engineer:	Jimi Zheng
Test Date:	2025-03-31 to 2025-05-09
EUT Operation Mode:	BLE Transmitting

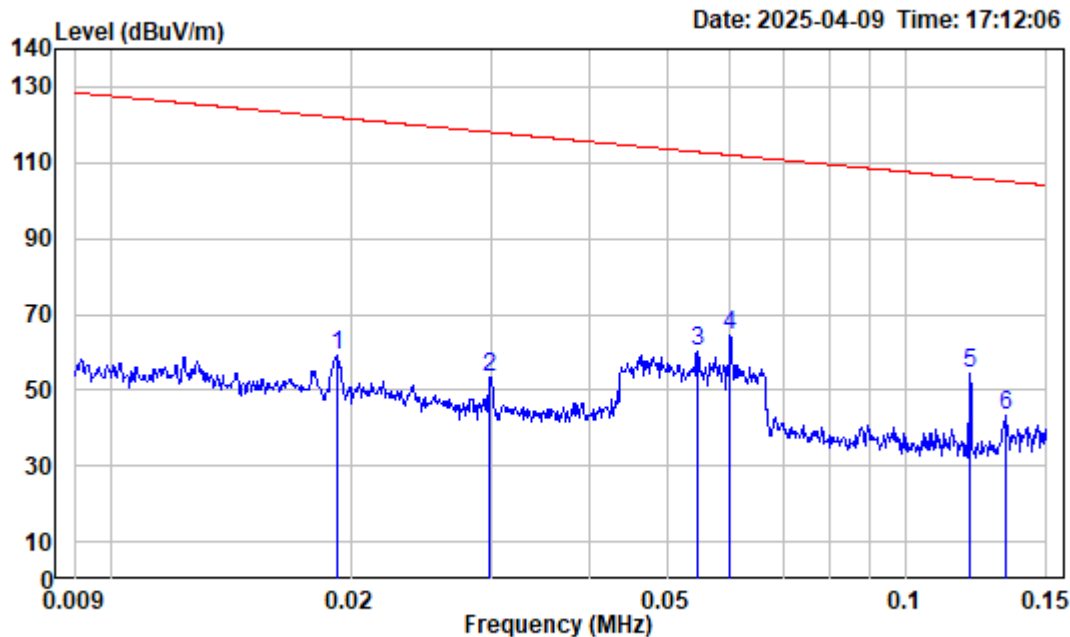
Test Result: Compliance, please refer to the below data.

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 High Channel was tested.

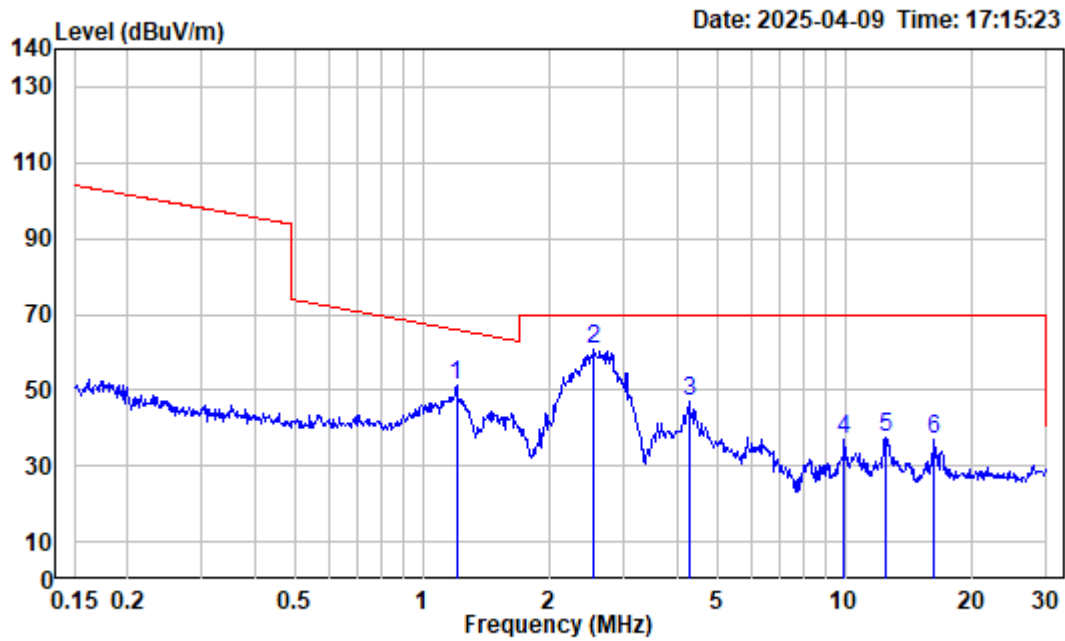
9kHz~30MHz:

For 2ZQ0-1(H660), Adapter 1



Site : Chamber
Condition : 3m
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H660
Receiver Setting: RBW:0.3kHz VBW:1kHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.019	31.72	27.21	58.93	121.92	-62.99	Peak
2	0.030	26.98	26.42	53.40	118.09	-64.69	Peak
3	0.055	22.15	38.16	60.31	112.83	-52.52	Peak
4	0.060	21.39	42.82	64.21	112.02	-47.81	Peak
5	0.120	15.51	38.72	54.23	105.99	-51.76	Peak
6	0.133	14.92	28.60	43.52	105.11	-61.59	Peak



Site : Chamber

Condition : 3m

Project No. : 2504R26435E-RF Tester: Jimi Zheng

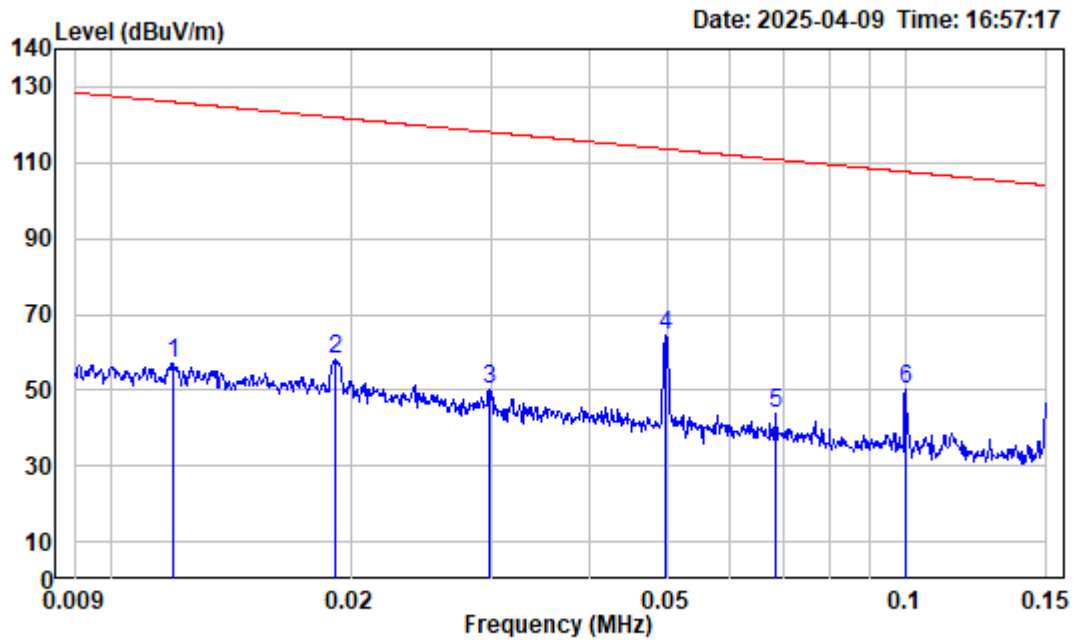
Test Mode : BLE Transmitting

Note : H660

Receiver Setting: RBW:10kHz VBW:30kHz

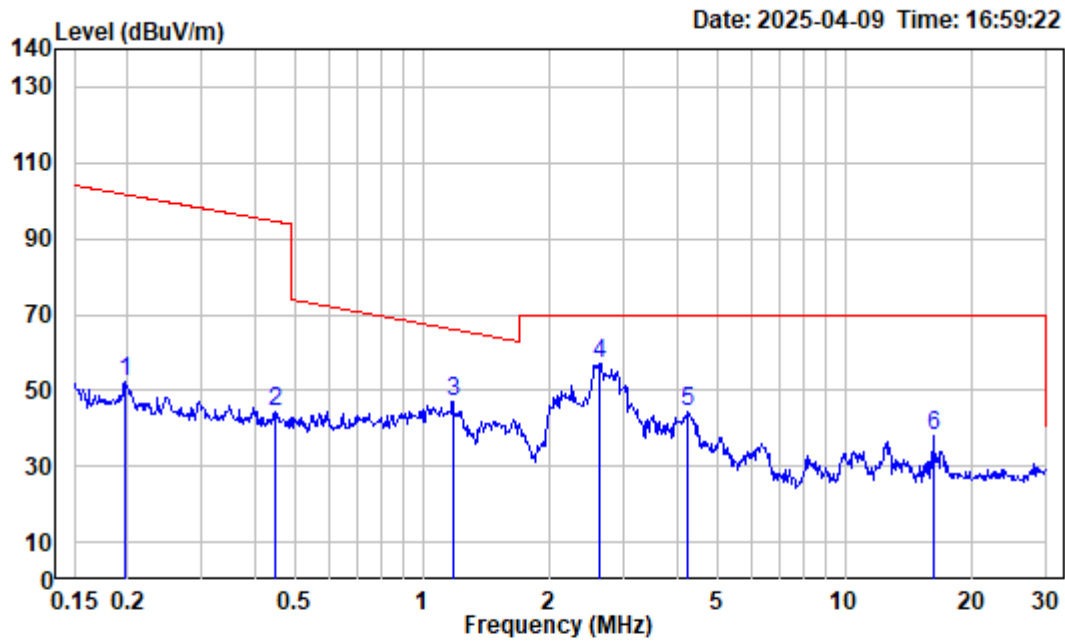
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.203	-2.59	53.66	51.07	65.83	-14.76	Peak
2	2.554	-5.68	66.19	60.51	69.54	-9.03	Peak
3	4.269	-6.32	53.51	47.19	69.54	-22.35	Peak
4	9.966	-5.44	42.49	37.05	69.54	-32.49	Peak
5	12.516	-4.83	42.14	37.31	69.54	-32.23	Peak
6	16.226	-3.90	40.86	36.96	69.54	-32.58	Peak

For 2ZQ0-1(H660), Adapter 2



Site : Chamber
Condition : 3m
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H660 Adapter 2#
Receiver Setting: RBW:0.3kHz VBW:1kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	34.96	22.14	57.10	126.05	-68.95	Peak
2	0.019	31.77	26.36	58.13	121.97	-63.84	Peak
3	0.030	27.01	23.10	50.11	118.11	-68.00	Peak
4	0.050	22.88	41.61	64.49	113.66	-49.17	Peak
5	0.069	20.17	23.72	43.89	110.88	-66.99	Peak
6	0.100	16.48	33.47	49.95	107.63	-57.68	Peak



Site : Chamber

Condition : 3m

Project No. : 2504R26435E-RF Tester: Jimi Zheng

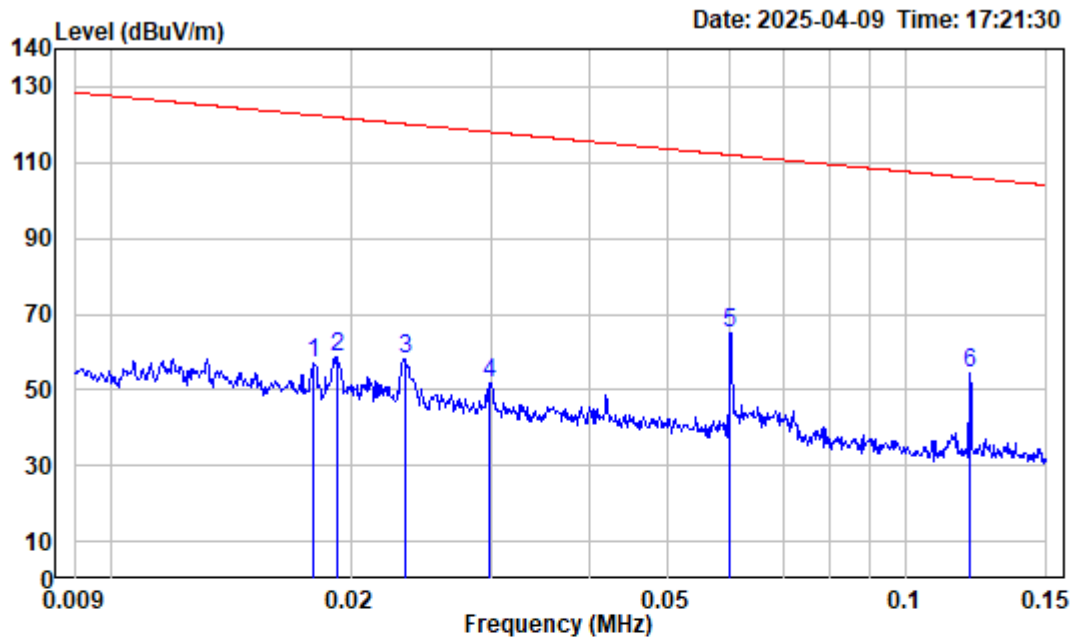
Test Mode : BLE Transmitting

Note : H660 Adapter 2#

Receiver Setting: RBW:10kHz VBW:30kHz

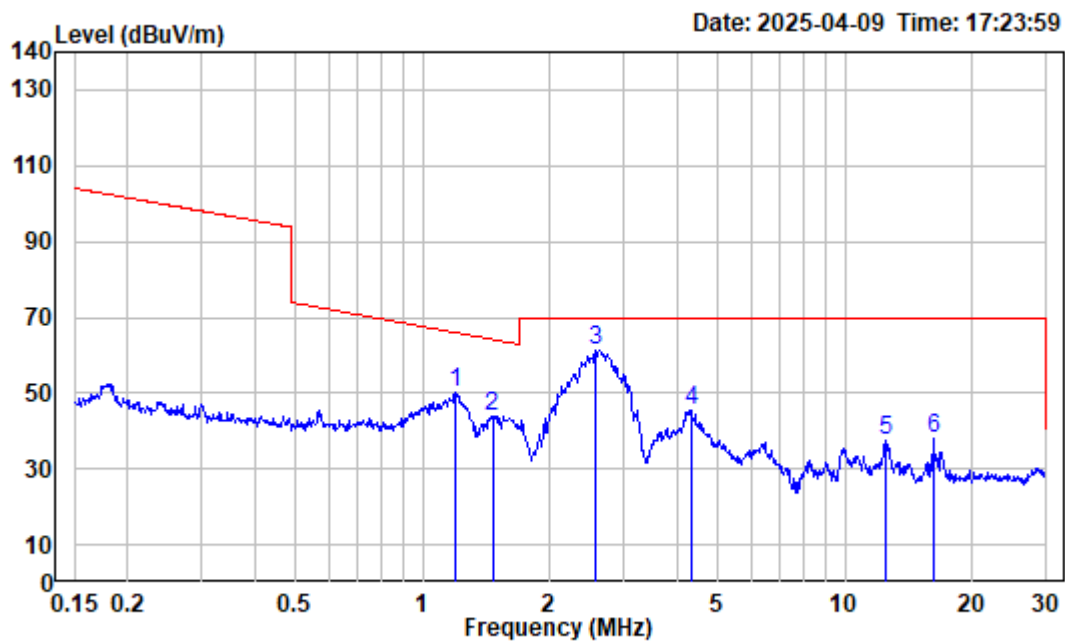
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.199	11.92	40.27	52.19	101.64	-49.45	Peak
2	0.447	4.34	40.23	44.57	94.60	-50.03	Peak
3	1.178	-2.50	49.53	47.03	66.02	-18.99	Peak
4	2.636	-5.72	62.58	56.86	69.54	-12.68	Peak
5	4.247	-6.32	50.88	44.56	69.54	-24.98	Peak
6	16.226	-3.90	42.05	38.15	69.54	-31.39	Peak

For 2ZQ0-3(H680)



Site : Chamber
Condition : 3m
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H680
Receiver Setting: RBW:0.3kHz VBW:1kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.018	32.28	24.90	57.18	122.51	-65.33	Peak
2	0.019	31.70	27.19	58.89	121.90	-63.01	Peak
3	0.023	29.87	28.34	58.21	120.21	-62.00	Peak
4	0.030	26.98	25.05	52.03	118.09	-66.06	Peak
5	0.060	21.39	43.64	65.03	112.02	-46.99	Peak
6	0.120	15.51	38.69	54.20	105.99	-51.79	Peak



Site : Chamber

Condition : 3m

Project No. : 2504R26435E-RF Tester: Jimi Zheng

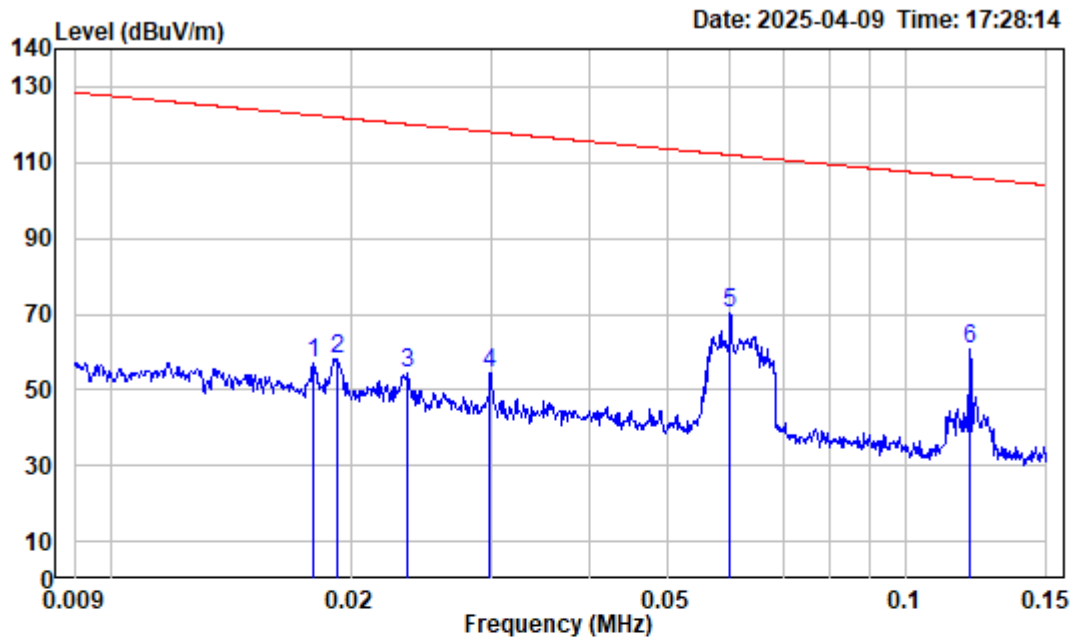
Test Mode : BLE Transmitting

Note : H680

Receiver Setting: RBW:10kHz VBW:30kHz

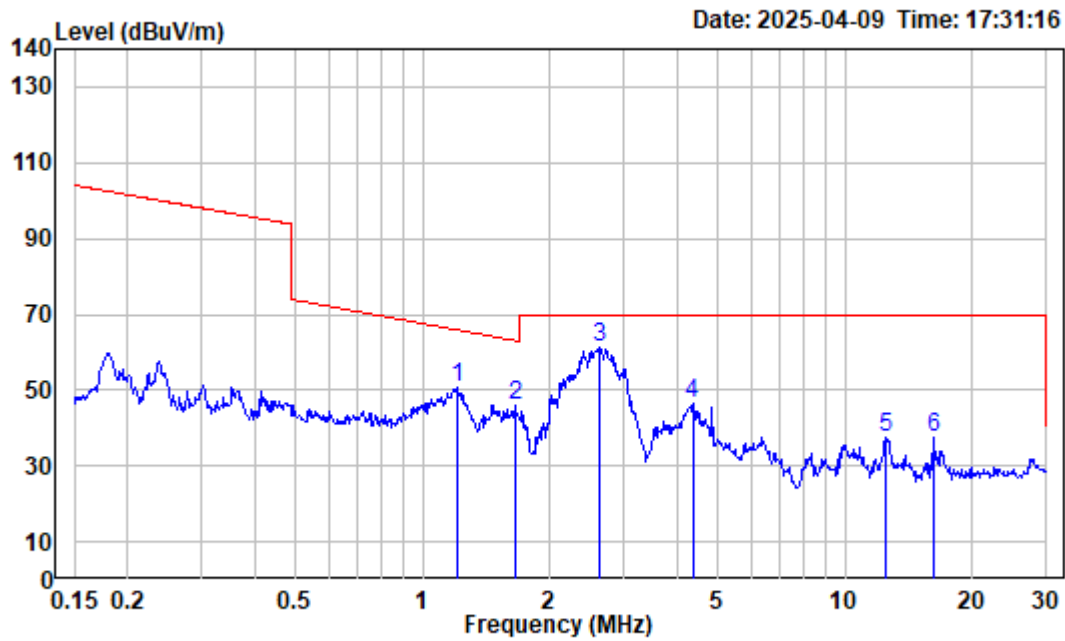
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.191	-2.55	52.55	50.00	65.92	-15.92	Peak
2	1.464	-3.52	47.55	44.03	64.09	-20.06	Peak
3	2.581	-5.69	67.20	61.51	69.54	-8.03	Peak
4	4.315	-6.31	51.99	45.68	69.54	-23.86	Peak
5	12.449	-4.85	42.31	37.46	69.54	-32.08	Peak
6	16.226	-3.90	41.79	37.89	69.54	-31.65	Peak

For 2ZQ0-4(H1500)



Site : Chamber
Condition : 3m
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H1500
Receiver Setting: RBW:0.3kHz VBW:1kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.018	32.28	24.74	57.02	122.51	-65.49	Peak
2	0.019	31.72	26.43	58.15	121.92	-63.77	Peak
3	0.024	29.78	24.72	54.50	120.14	-65.64	Peak
4	0.030	26.98	27.55	54.53	118.09	-63.56	Peak
5	0.060	21.39	48.82	70.21	112.02	-41.81	Peak
6	0.120	15.51	45.11	60.62	105.99	-45.37	Peak



Site : Chamber

Condition : 3m

Project No. : 2504R26435E-RF Tester: Jimi Zheng

Test Mode : BLE Transmitting

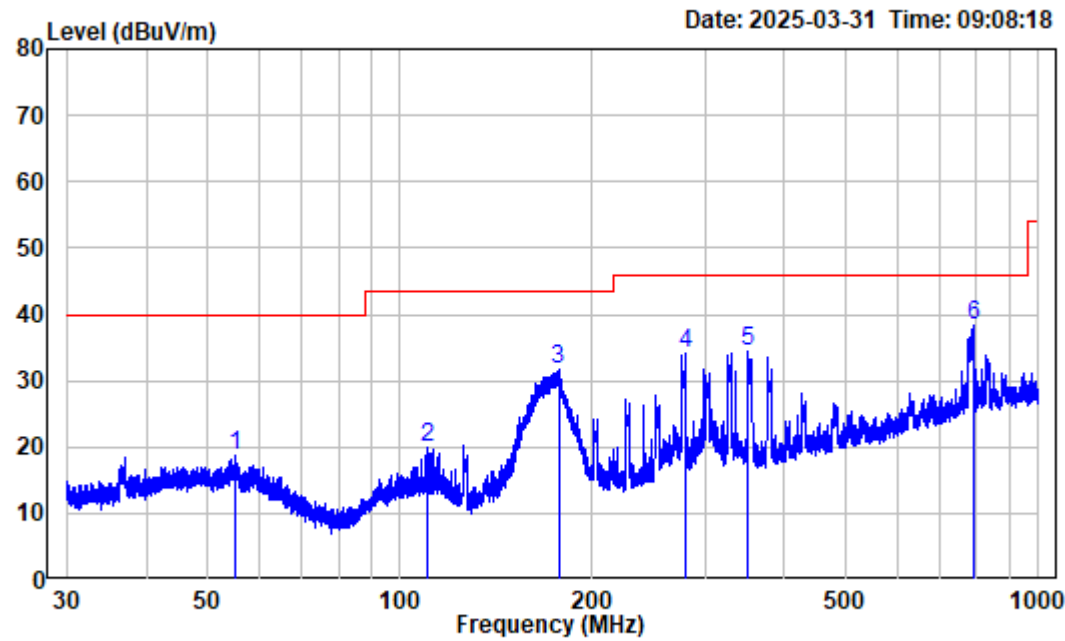
Note : H1500

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	1.210	-2.62	53.44	50.82	65.78	-14.96	Peak
2	1.654	-4.19	49.98	45.79	63.01	-17.22	Peak
3	2.636	-5.72	67.02	61.30	69.54	-8.24	Peak
4	4.361	-6.31	52.61	46.30	69.54	-23.24	Peak
5	12.516	-4.83	42.49	37.66	69.54	-31.88	Peak
6	16.226	-3.90	41.52	37.62	69.54	-31.92	Peak

30MHz~1GHz:

For 2ZQ0-1(H660), Adapter 1



Site : Chamber

Condition : 3m HORIZONTAL

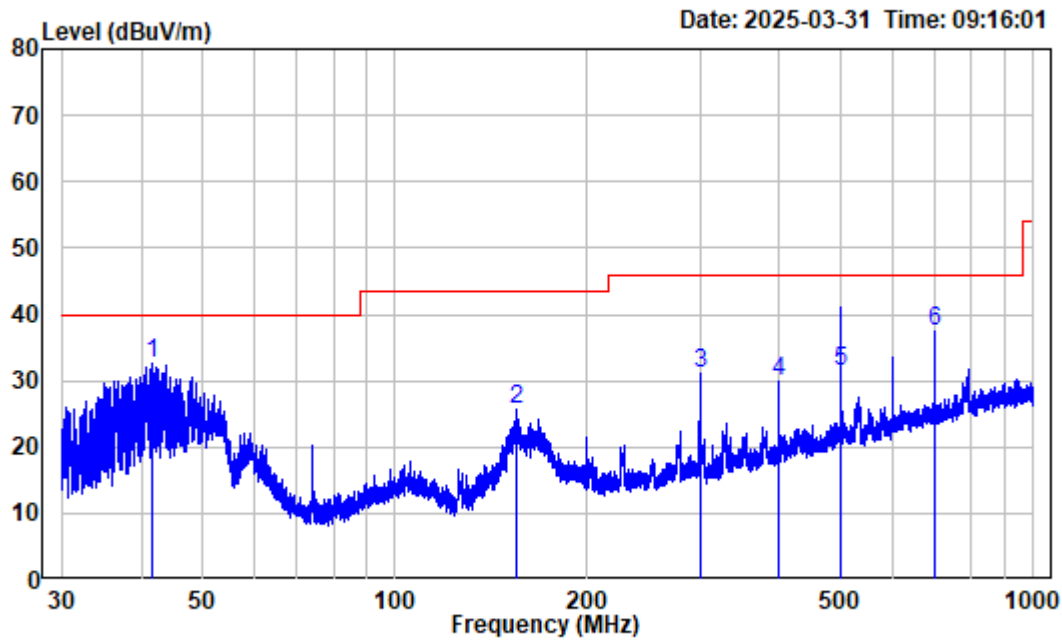
Project No. : 2504R26435E-RF Tester: Jimi Zheng

Test Mode : BLE Transmitting

Note : H660 Adapter 1#

Receiver Setting: RBW:100kHz VBW:300kHz

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	55.100	-11.27	29.95	18.68	40.00	-21.32	Peak
2	110.423	-12.19	32.15	19.96	43.50	-23.54	Peak
3	177.043	-13.56	45.32	31.76	43.50	-11.74	Peak
4	279.779	-9.97	44.15	34.18	46.00	-11.82	Peak
5	351.400	-7.59	42.08	34.49	46.00	-11.51	Peak
6	792.006	-0.48	38.79	38.31	46.00	-7.69	Peak



Site : Chamber

Condition : 3m VERTICAL

Project No. : 2504R26435E-RF Tester: Jimi Zheng

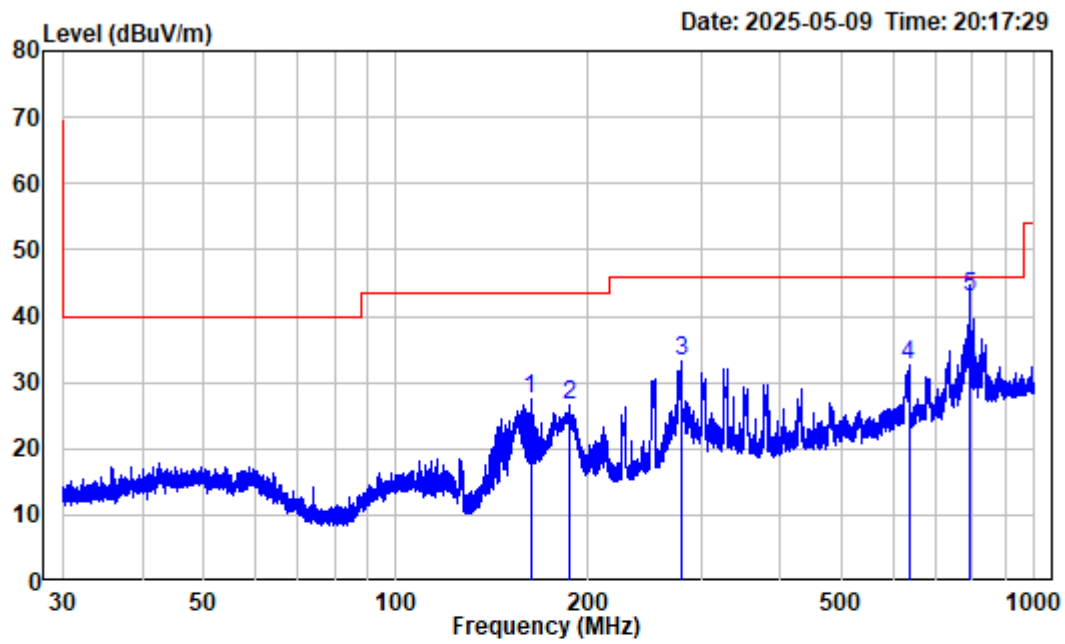
Test Mode : BLE Transmitting

Note : H660 Adapter 1#

Receiver Setting: RBW:100kHz VBW:300kHz

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.731	-10.86	43.44	32.58	40.00	-7.42	Peak
2	154.617	-15.05	40.79	25.74	43.50	-17.76	Peak
3	299.973	-9.65	40.75	31.10	46.00	-14.90	Peak
4	400.081	-6.72	36.46	29.74	46.00	-16.26	Peak
5	500.082	-4.48	35.80	31.32	46.00	-14.68	QP
6	700.225	-1.81	39.19	37.38	46.00	-8.62	Peak

For 2ZQ0-1(H660), Adapter 2



Site : Chamber

Condition : 3m HORIZONTAL

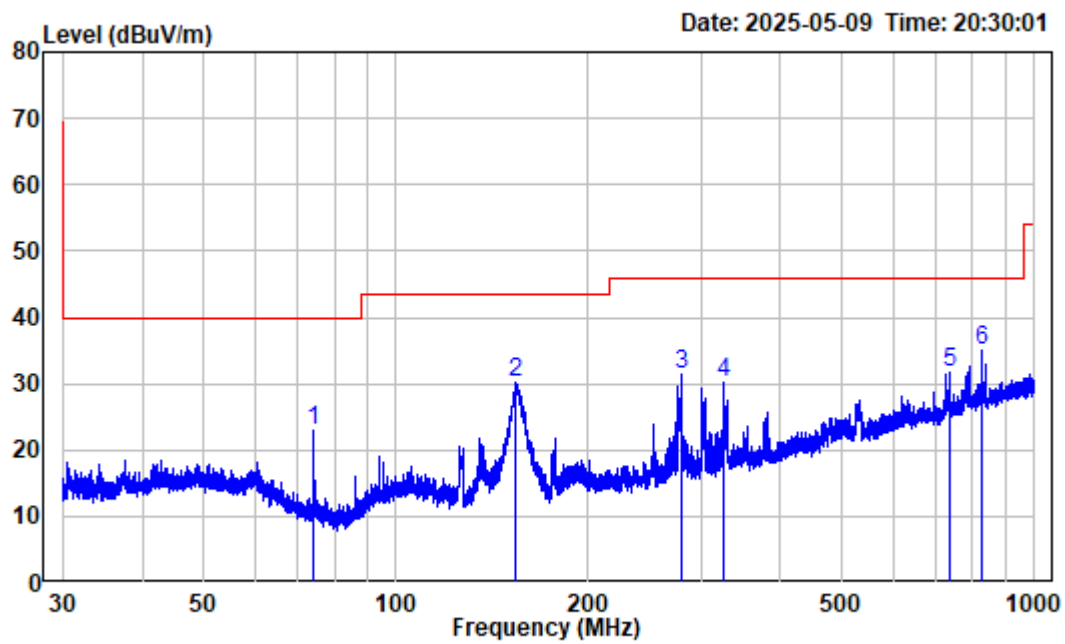
Project No. : 2504R26435E-RF Tester: Jimi Zheng

Test Mode : BLE Transmitting

Note : H660 Adapter 2#

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	162.326	-14.36	41.86	27.50	43.50	-16.00	Peak
2	187.424	-11.46	37.90	26.44	43.50	-17.06	Peak
3	279.411	-9.62	42.80	33.18	46.00	-12.82	Peak
4	635.577	-1.90	34.53	32.63	46.00	-13.37	Peak
5	792.006	-0.09	42.90	42.81	46.00	-3.19	QP
6	792.353	-0.09	32.50	32.41	46.00	-13.59	QP



Site : Chamber

Condition : 3m VERTICAL

Project No. : 2504R26435E-RF Tester: Jimi Zheng

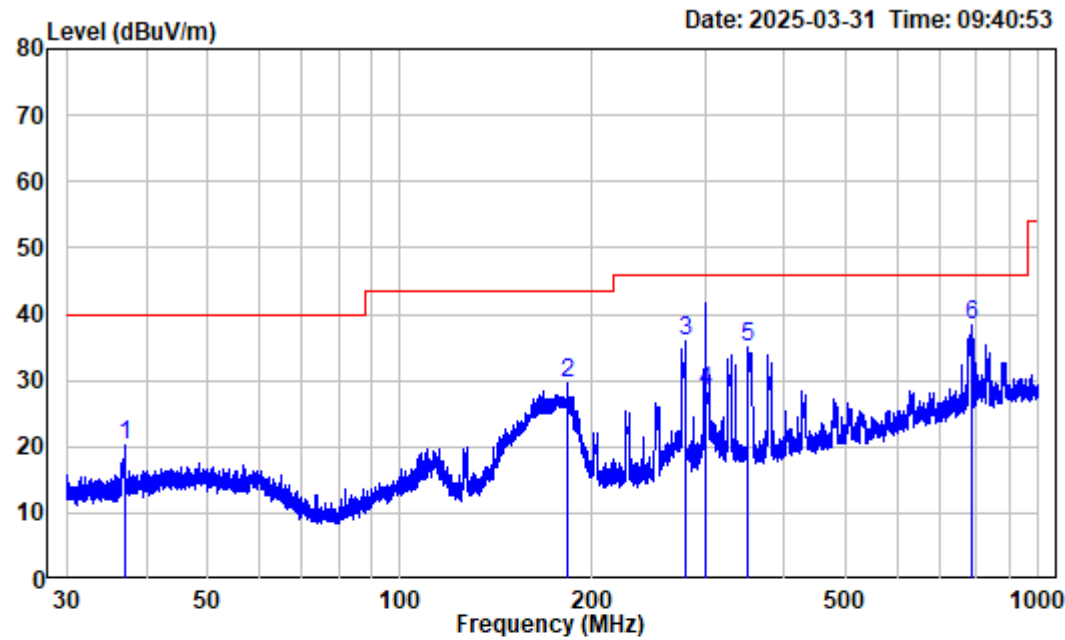
Test Mode : BLE Transmitting

Note : H660 Adapter 2#

Receiver Setting: RBW:100kHz VBW:300kHz

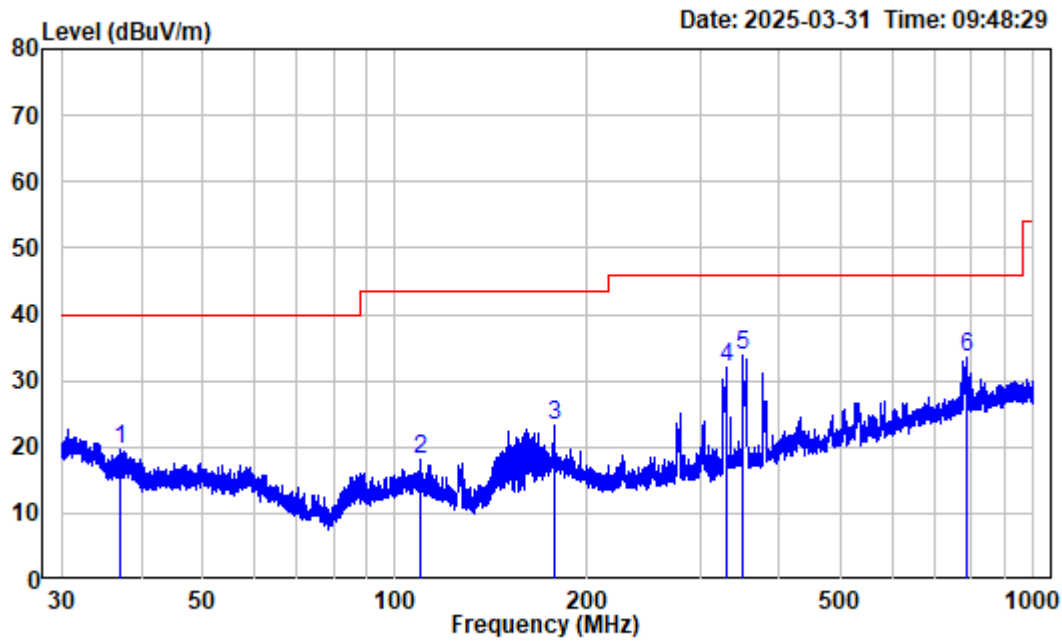
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	74.298	-16.27	39.29	23.02	40.00	-16.98	Peak
2	154.143	-15.02	45.20	30.18	43.50	-13.32	Peak
3	279.411	-9.62	41.10	31.48	46.00	-14.52	Peak
4	325.881	-8.44	38.53	30.09	46.00	-15.91	Peak
5	738.041	-0.79	32.52	31.73	46.00	-14.27	Peak
6	828.219	0.36	34.73	35.09	46.00	-10.91	Peak

For 2ZQ0-3(H680)



Site : Chamber
Condition : 3m HORIZONTAL
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H680
Receiver Setting: RBW:100kHz VBW:300kHz

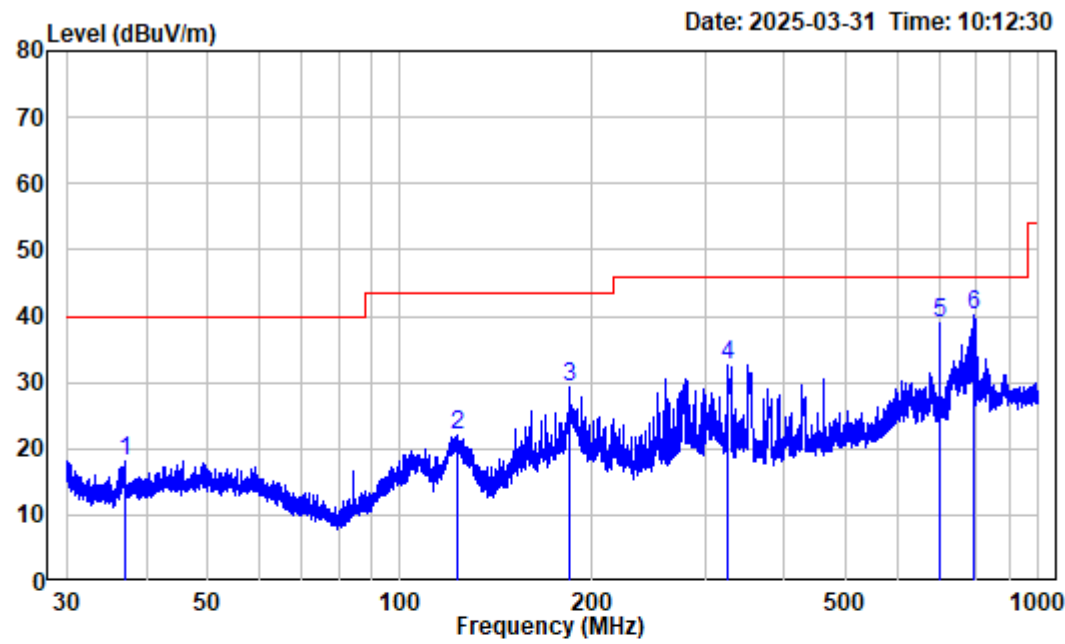
	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	Line	Limit	
					dBuV/m	dB	
1	37.074	-11.84	31.96	20.12	40.00	-19.88	Peak
2	182.880	-12.56	42.24	29.68	43.50	-13.82	Peak
3	279.411	-9.98	45.94	35.96	46.00	-10.04	Peak
4	299.973	-9.65	37.90	28.25	46.00	-17.75	QP
5	351.400	-7.59	42.55	34.96	46.00	-11.04	Peak
6	787.851	-0.46	38.76	38.30	46.00	-7.70	Peak



Site : Chamber
Condition : 3m VERTICAL
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H680
Receiver Setting: RBW:100kHz VBW:300kHz

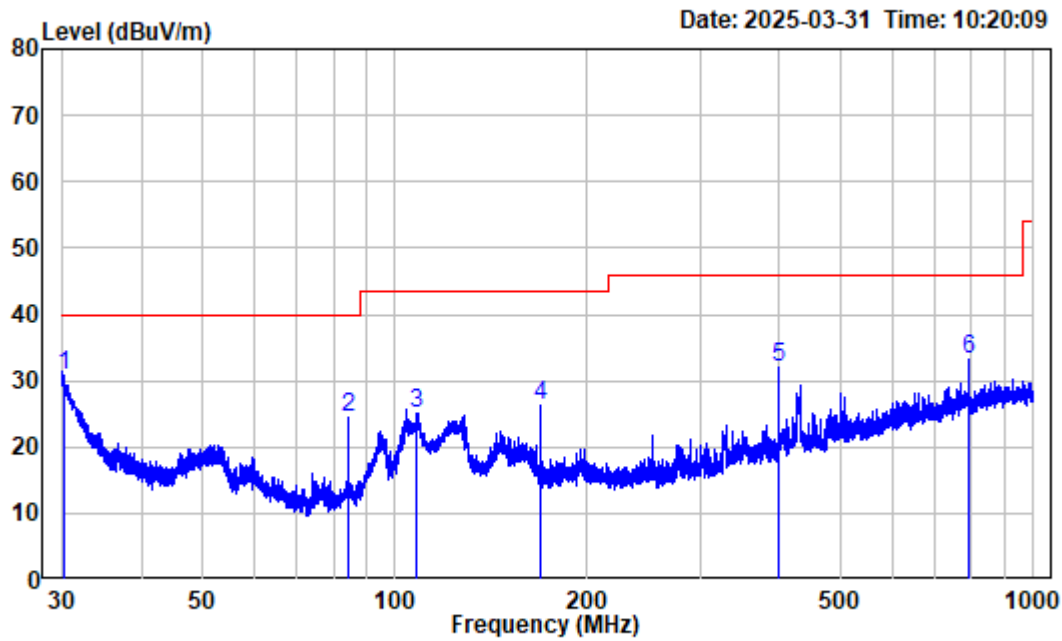
Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.041 -11.85	31.55	19.70	40.00	-20.30	Peak
2	109.748 -12.07	30.11	18.04	43.50	-25.46	Peak
3	178.055 -13.35	36.62	23.27	43.50	-20.23	Peak
4	330.340 -8.50	40.42	31.92	46.00	-14.08	Peak
5	350.938 -7.57	41.48	33.91	46.00	-12.09	Peak
6	788.542 -0.46	33.92	33.46	46.00	-12.54	Peak

For 2ZQ0-4(H1500)



Site : Chamber
Condition : 3m HORIZONTAL
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H1500
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB	
1	37.074	-11.84	29.93	18.09	40.00	-21.91	Peak
2	122.619	-14.33	36.25	21.92	43.50	-21.58	Peak
3	183.844	-12.36	41.69	29.33	43.50	-14.17	Peak
4	325.881	-8.79	41.43	32.64	46.00	-13.36	Peak
5	700.225	-1.81	40.72	38.91	46.00	-7.09	Peak
6	792.353	-0.48	40.62	40.14	46.00	-5.86	Peak



Site : Chamber
Condition : 3m VERTICAL
Project No. : 2504R26435E-RF Tester: Jimi Zheng
Test Mode : BLE Transmitting
Note : H1500
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	30.291	-12.48	43.36	30.88	40.00	-9.12	Peak
2	84.479	-16.41	40.94	24.53	40.00	-15.47	Peak
3	108.030	-11.82	36.88	25.06	43.50	-18.44	Peak
4	168.931	-14.32	40.70	26.38	43.50	-17.12	Peak
5	400.081	-6.72	38.67	31.95	46.00	-14.05	Peak
6	792.006	-0.48	33.56	33.08	46.00	-12.92	Peak

1GHz-25GHz

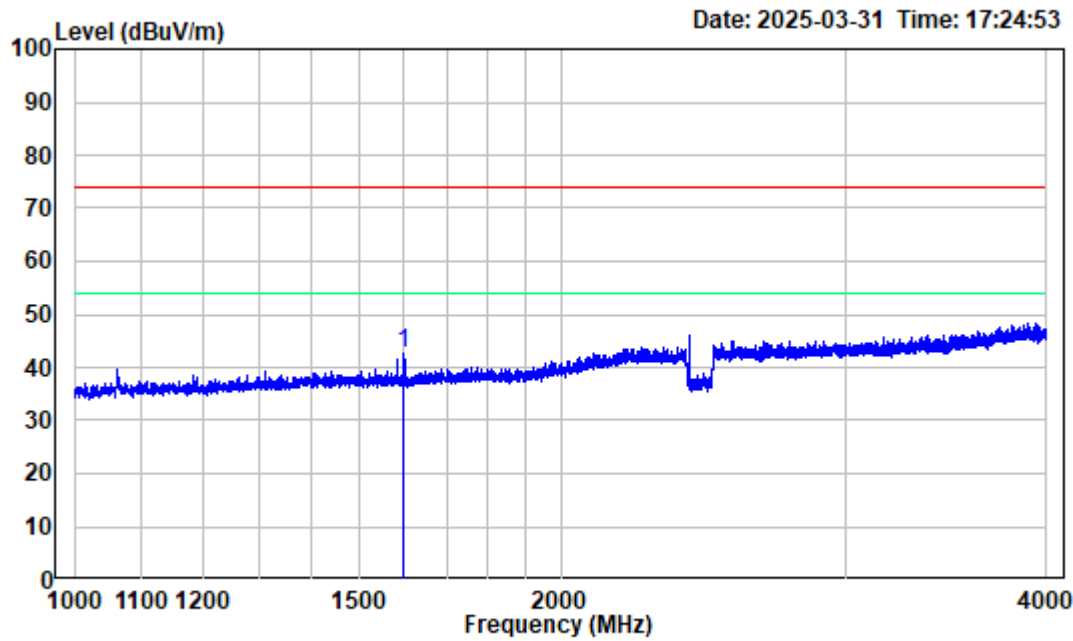
Environmental Conditions

Temperature:	23~25 °C
Relative Humidity:	52~56 %
ATM Pressure:	101.3 kPa
Test Engineer:	Kevin Lv
Test Date:	2025-03-31 to 2025-04-08
EUT Operation Mode:	Transmitting

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

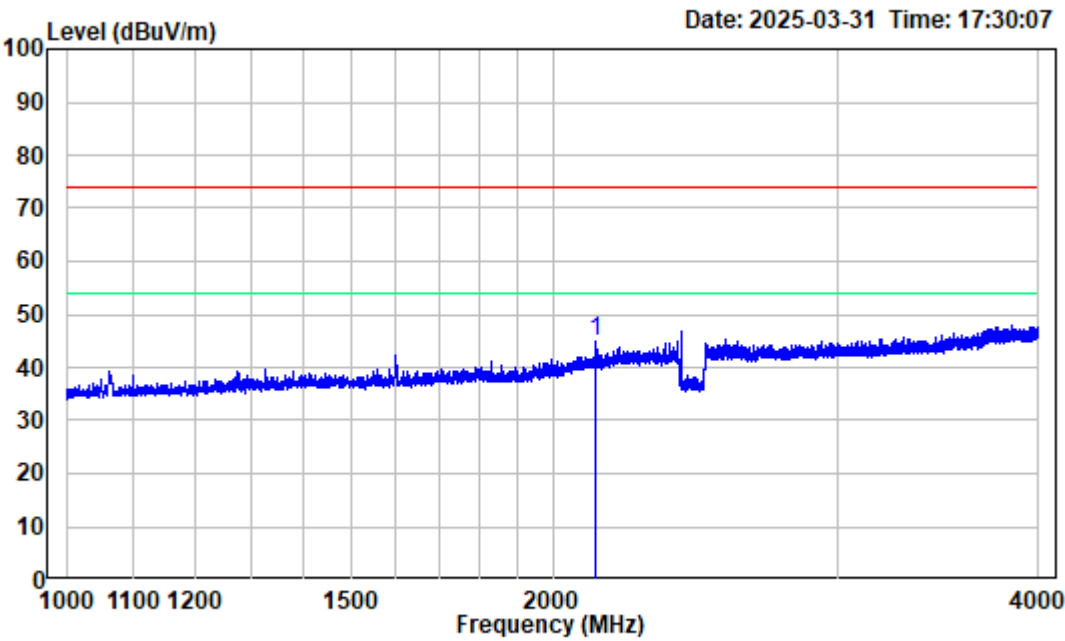
Note 1: Choose the 2ZQ0-4(H1500) for testing.
Note 2: For 18GHz-25GHz, the maximum output power mode and channel: BLE 1M High Channel was tested.

1GHz~4GHz:



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M Low Channel 2402MHz
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	1599.625	-13.72	56.49	42.77	74.00	-31.23 Peak



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

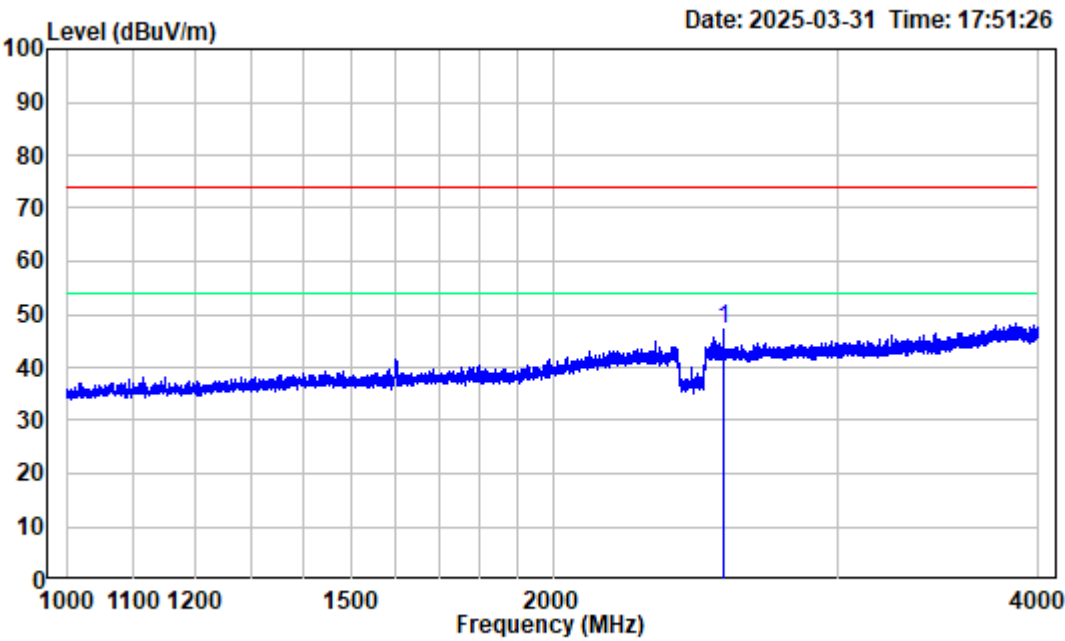
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M Low Channel 2402MHz

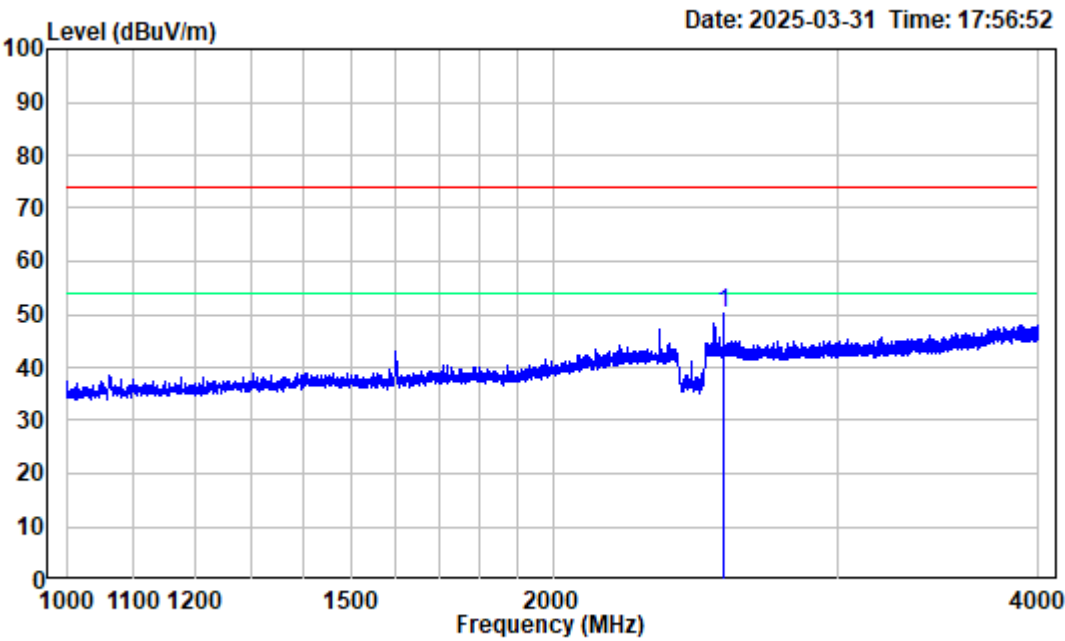
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2126.875	-10.72	55.62	44.90	74.00	-29.10	Peak



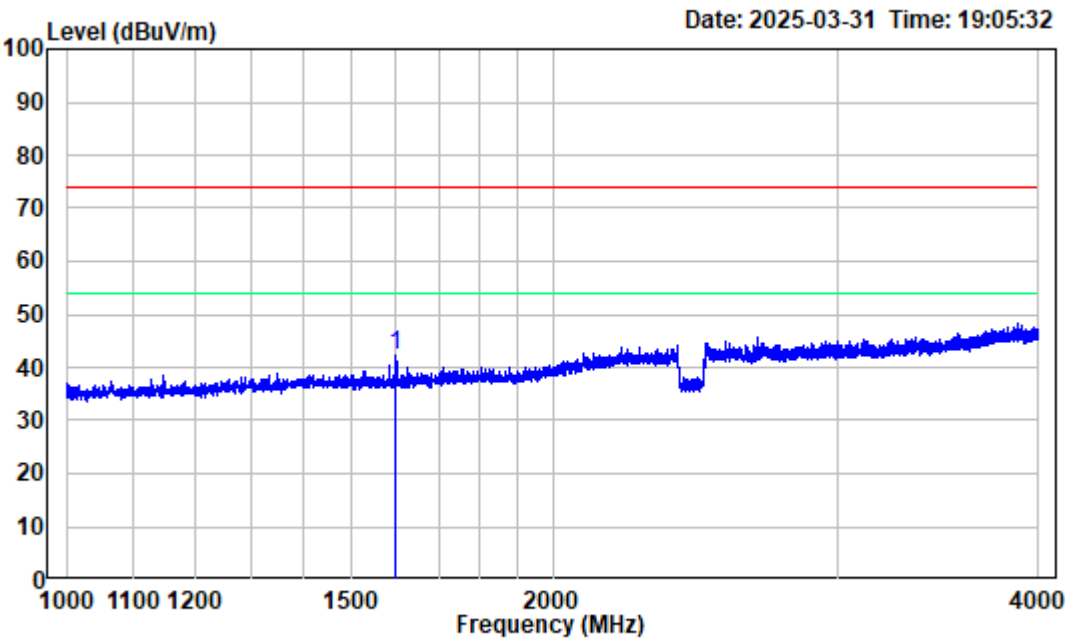
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M Middle Channel 2440MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2552.125	-10.13	57.36	47.23	74.00	-26.77	Peak



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M Middle Channel 2440MHz
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 2552.125	-10.13	60.33	50.20	74.00	-23.80	Peak



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

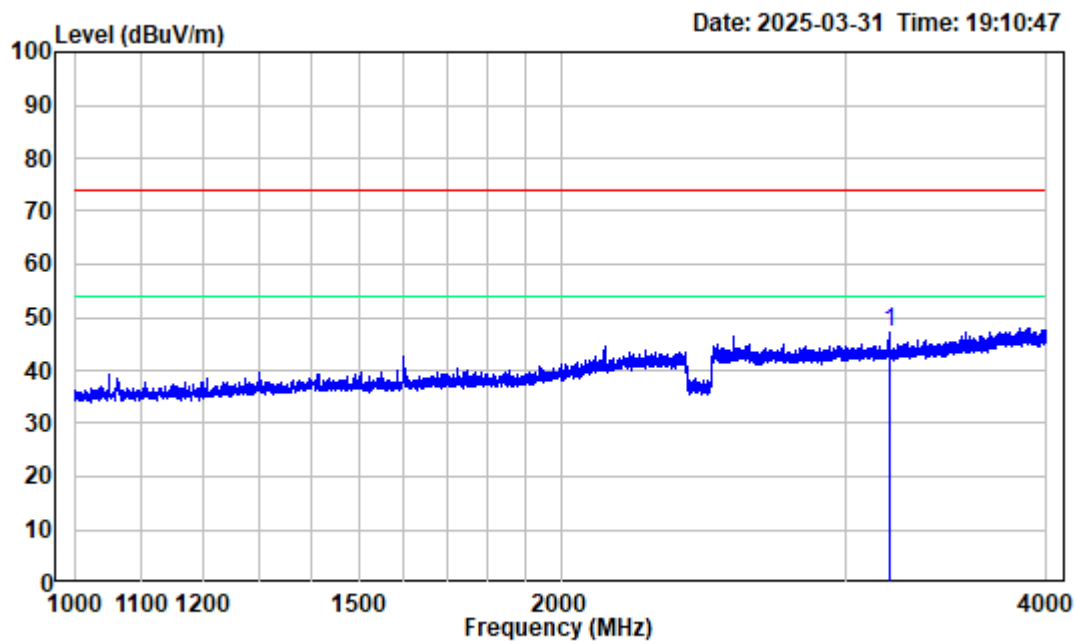
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M High Channel 2480MHz

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

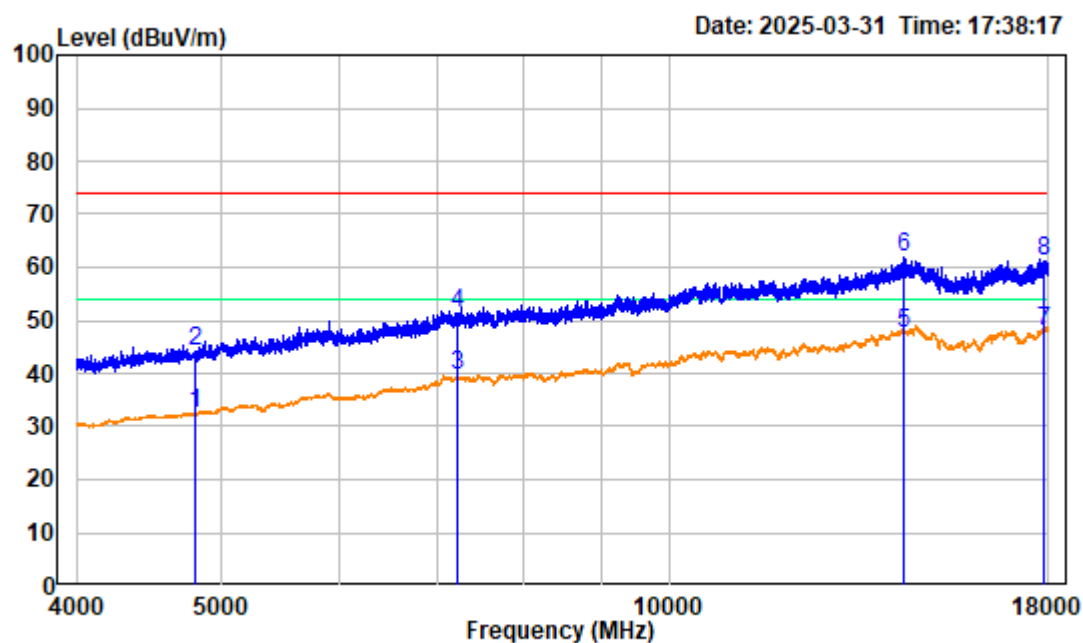
	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1600.000	-13.72	55.87	42.15	74.00	-31.85	Peak



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M High Channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBUV/m	dBUV/m	dB	
1 3195.250	-10.27	57.53	47.26	74.00	-26.74	Peak

4GHz~18GHz:



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

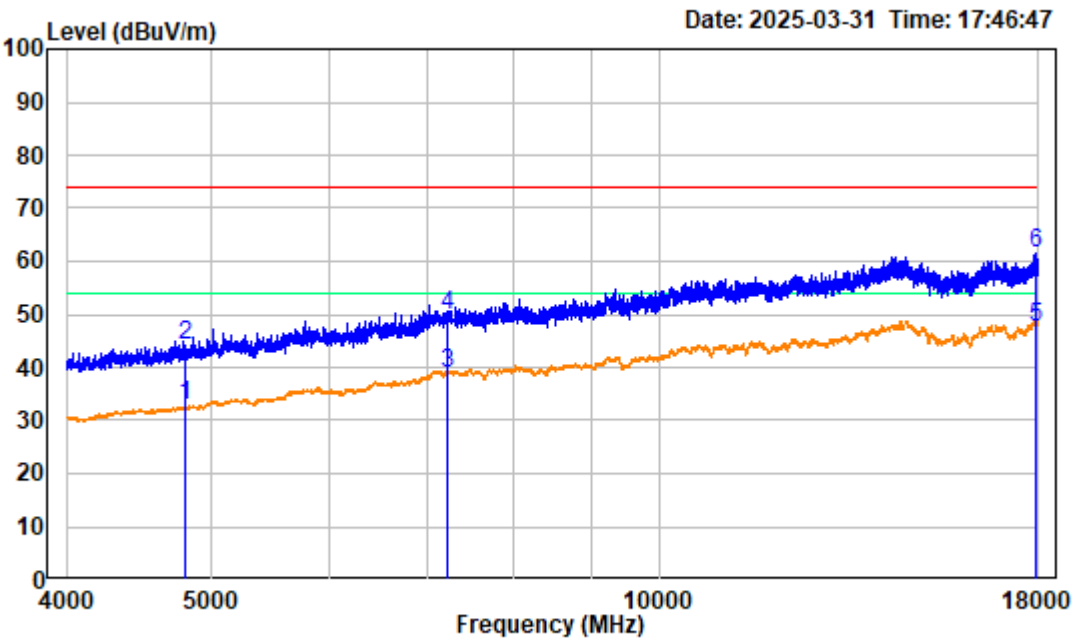
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M Low Channel 2402MHz

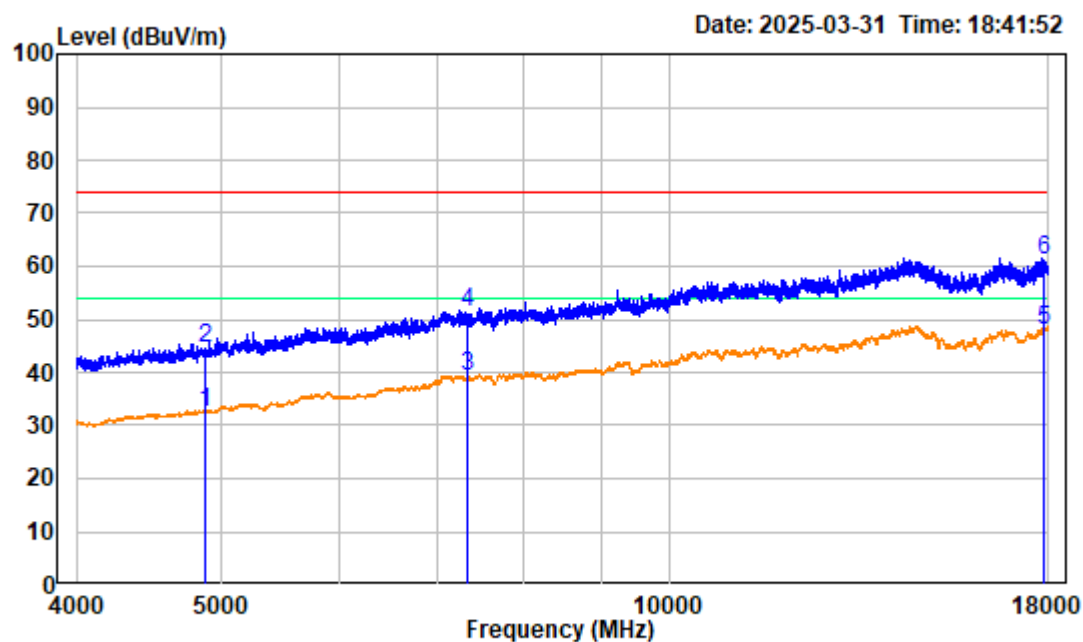
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	-6.59	38.86	32.27	54.00	-21.73	Average
2	4804.000	-6.59	50.86	44.27	74.00	-29.73	peak
3	7206.000	-1.33	40.80	39.47	54.00	-14.53	Average
4	7206.000	-1.33	52.80	51.47	74.00	-22.53	peak
5	14388.000	8.53	38.88	47.41	54.00	-6.59	Average
6	14388.000	8.53	53.28	61.81	74.00	-12.19	Peak
7	17893.250	8.24	39.62	47.86	54.00	-6.14	average
8	17893.250	8.24	53.02	61.26	74.00	-12.74	peak



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M Low Channel 2402MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	-6.59	39.39	32.80	54.00	-21.20	Average
2	4804.000	-6.59	50.89	44.30	74.00	-29.70	peak
3	7206.000	-1.33	40.18	38.85	54.00	-15.15	Average
4	7206.000	-1.33	51.18	49.85	74.00	-24.15	peak
5	17910.750	8.22	39.19	47.41	54.00	-6.59	average
6	17910.750	8.22	53.19	61.41	74.00	-12.59	peak



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

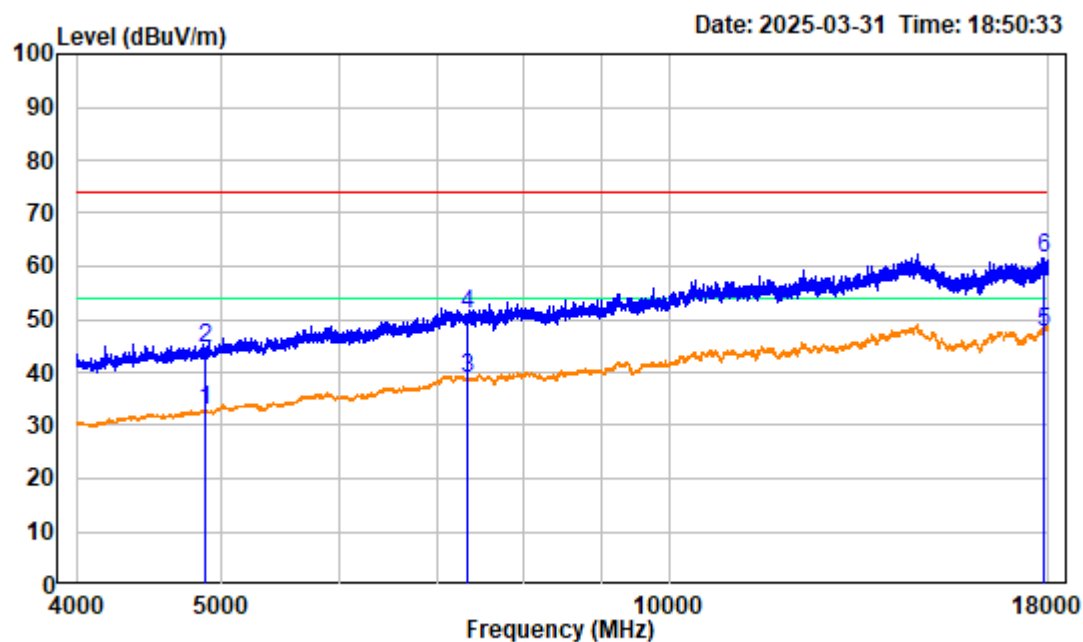
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M Middle Channel 2440MHz

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

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	-6.63	39.08	32.45	54.00	-21.55	Average
2	4880.000	-6.63	51.08	44.45	74.00	-29.55	peak
3	7320.000	-1.22	40.42	39.20	54.00	-14.80	Average
4	7320.000	-1.22	52.42	51.20	74.00	-22.80	peak
5	17875.750	8.24	39.73	47.97	54.00	-6.03	average
6	17875.750	8.24	52.73	60.97	74.00	-13.03	peak



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

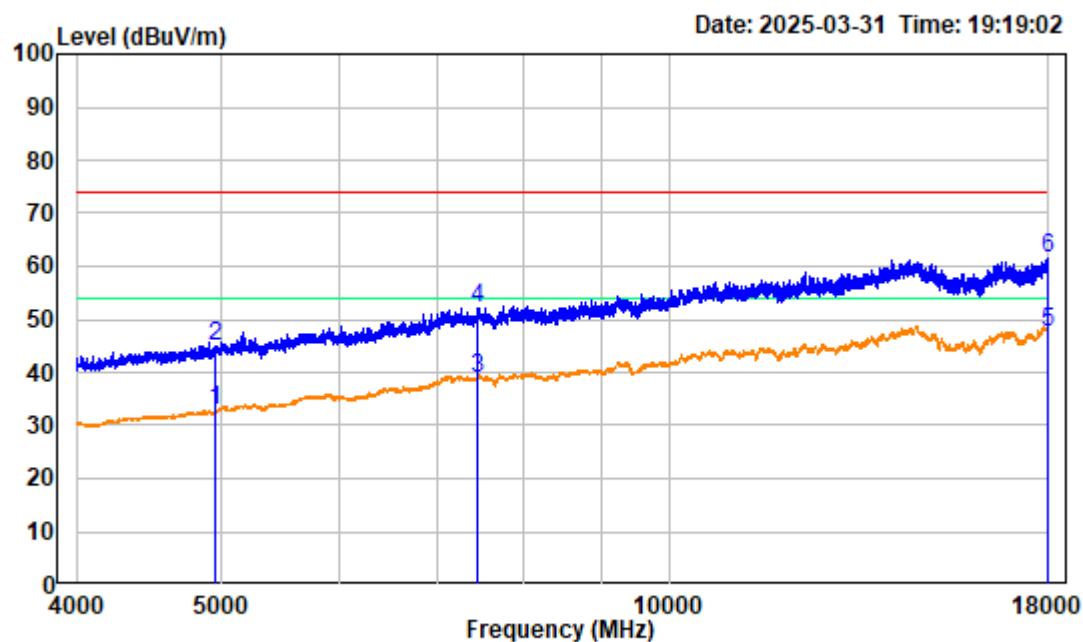
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M Middle Channel 2440MHz

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

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	-6.63	39.40	32.77	54.00	-21.23	Average
2	4880.000	-6.63	51.00	44.37	74.00	-29.63	peak
3	7320.000	-1.22	40.06	38.84	54.00	-15.16	Average
4	7320.000	-1.22	52.06	50.84	74.00	-23.16	peak
5	17863.500	8.23	39.23	47.46	54.00	-6.54	average
6	17863.500	8.23	53.23	61.46	74.00	-12.54	peak



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

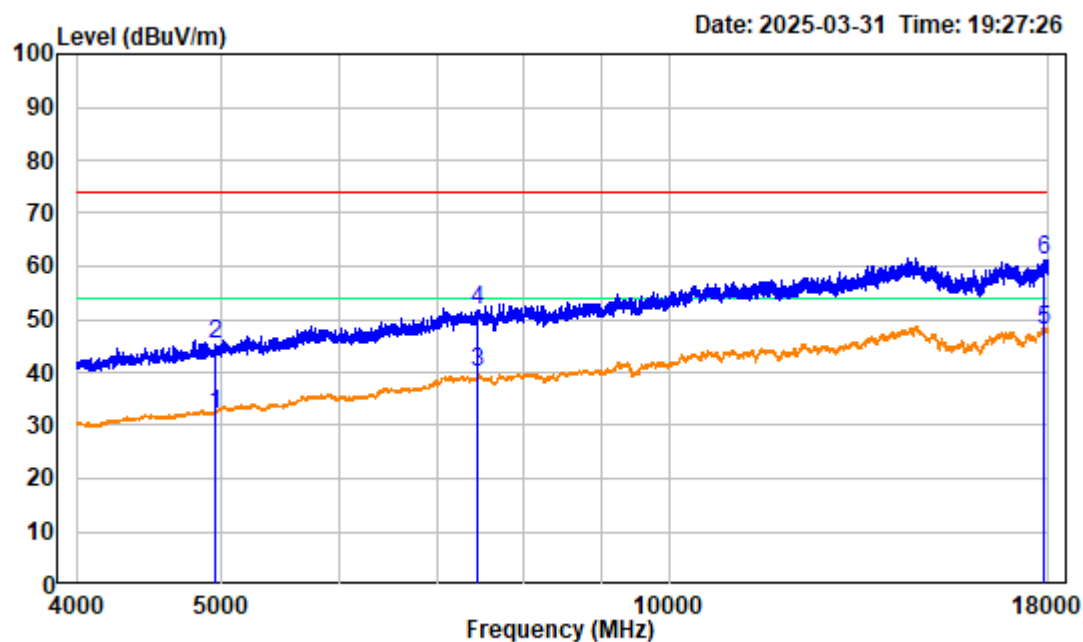
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M High Channel 2480MHz

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

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	-6.44	39.38	32.94	54.00	-21.06	Average
2	4960.000	-6.44	51.18	44.74	74.00	-29.26	peak
3	7440.000	-1.07	40.13	39.06	54.00	-14.94	Average
4	7440.000	-1.07	53.13	52.06	74.00	-21.94	peak
5	17979.000	8.26	39.44	47.70	54.00	-6.30	average
6	17979.000	8.26	53.24	61.50	74.00	-12.50	peak



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

Test Mode : Transmitting

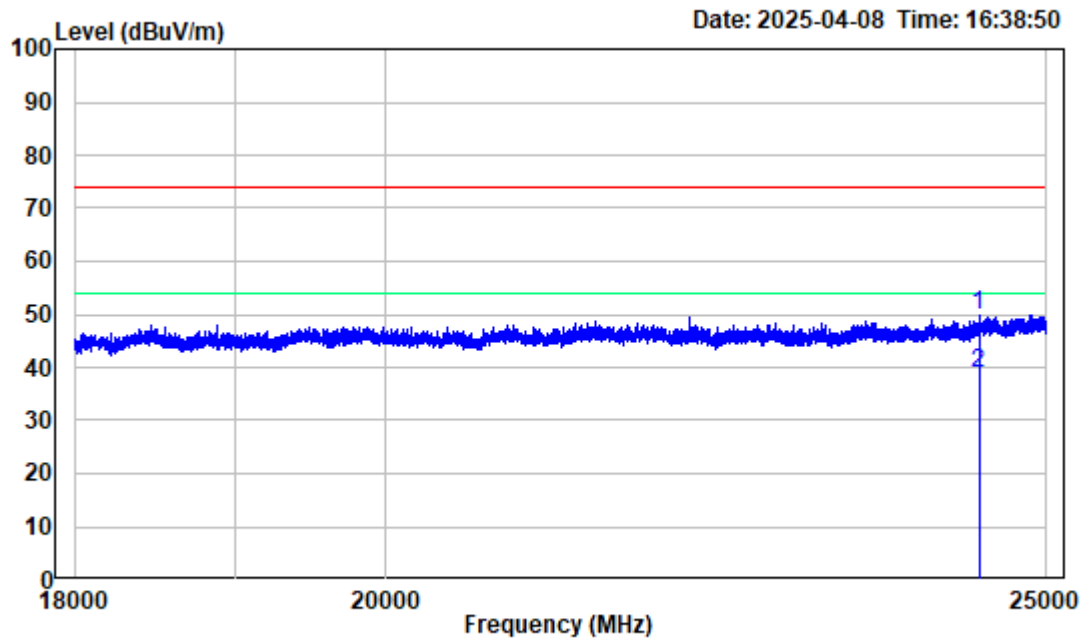
Tester:Kevin Lv

Note : BLE 1M High Channel 2480MHz

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

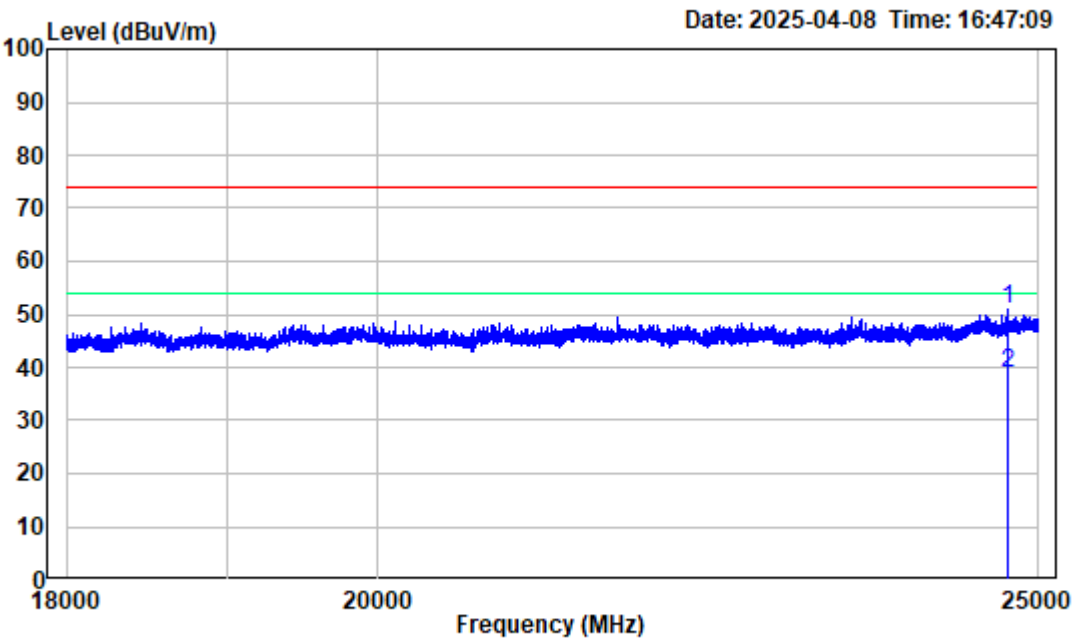
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	-6.44	38.70	32.26	54.00	-21.74	Average
2	4960.000	-6.44	51.70	45.26	74.00	-28.74	peak
3	7440.000	-1.07	40.88	39.81	54.00	-14.19	Average
4	7440.000	-1.07	52.88	51.81	74.00	-22.19	peak
5	17898.500	8.24	39.65	47.89	54.00	-6.11	average
6	17898.500	8.24	53.05	61.29	74.00	-12.71	peak

18GHz~25GHz:



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M High Channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

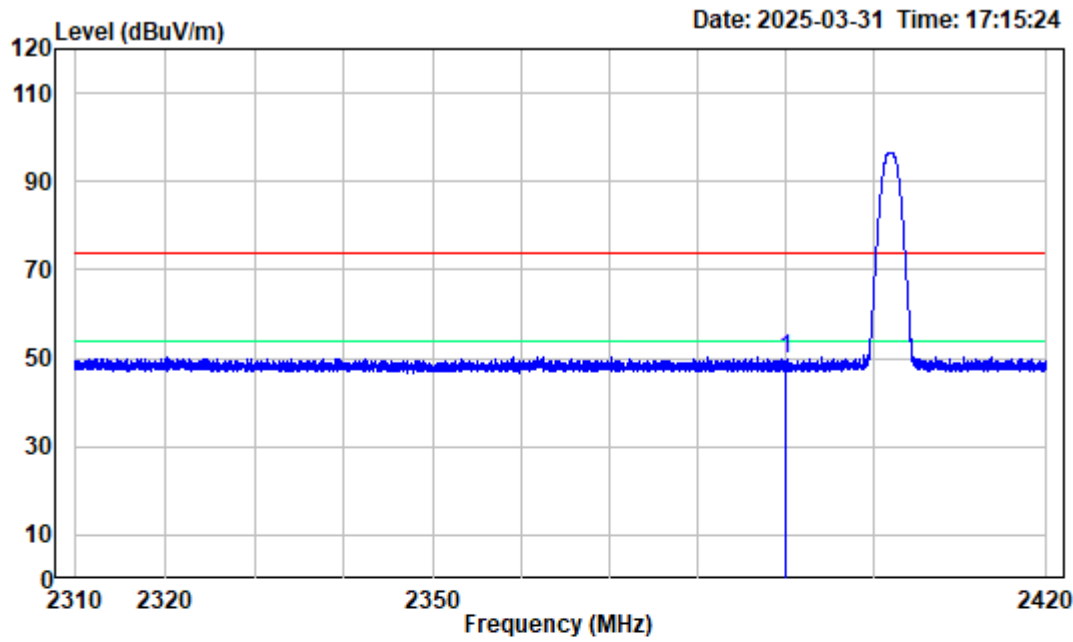
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	24435.630	-0.70	50.46	49.76	74.00	-24.24	Peak
2	24435.630	-0.70	39.46	38.76	54.00	-15.24	Average



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M High Channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

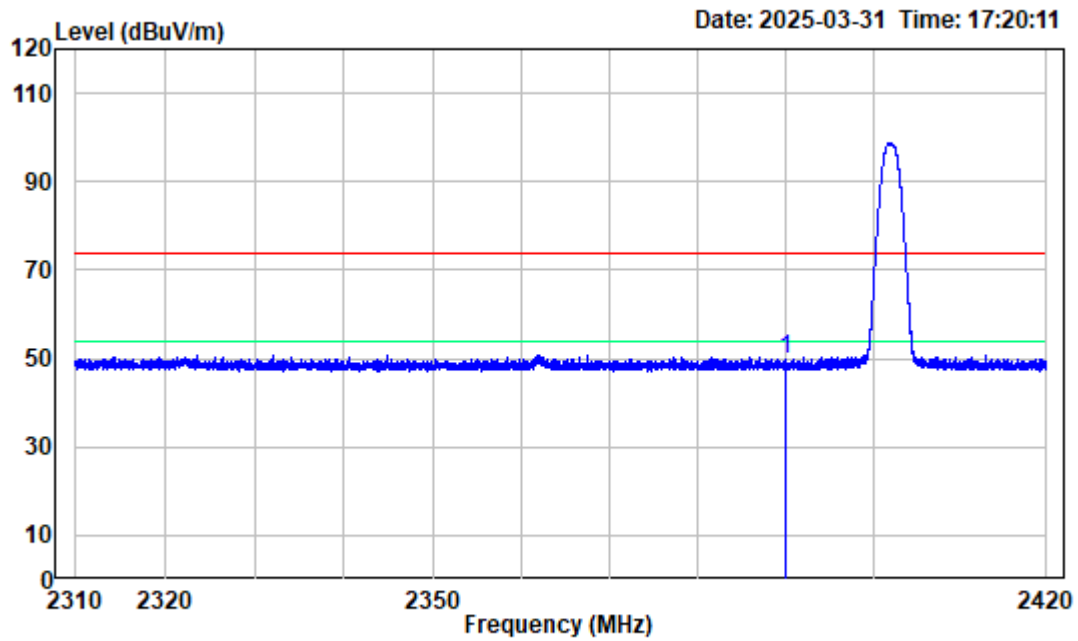
	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	24741.880	0.02	50.97	50.99	74.00	-23.01	Peak
2	24741.880	0.02	38.97	38.99	54.00	-15.01	Average

Band Edge:



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504R26435E-RF Serial No.:2ZQ0-4
Test Mode : Transmitting Tester:Kevin Lv
Note : BLE 1M Low Channel 2402MHz
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	-10.24	59.85	49.61	74.00	-24.39	peak



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

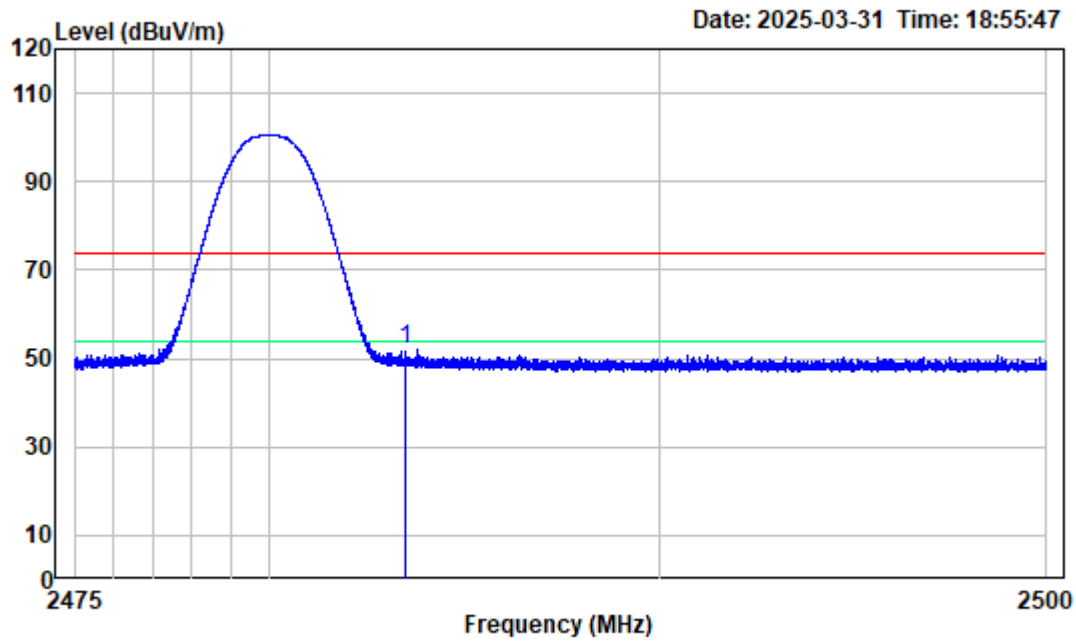
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M Low Channel 2402MHz

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

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2390.000	-10.24	60.21	49.97	74.00	-24.03	peak



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504R26435E-RF

Serial No.:2ZQ0-4

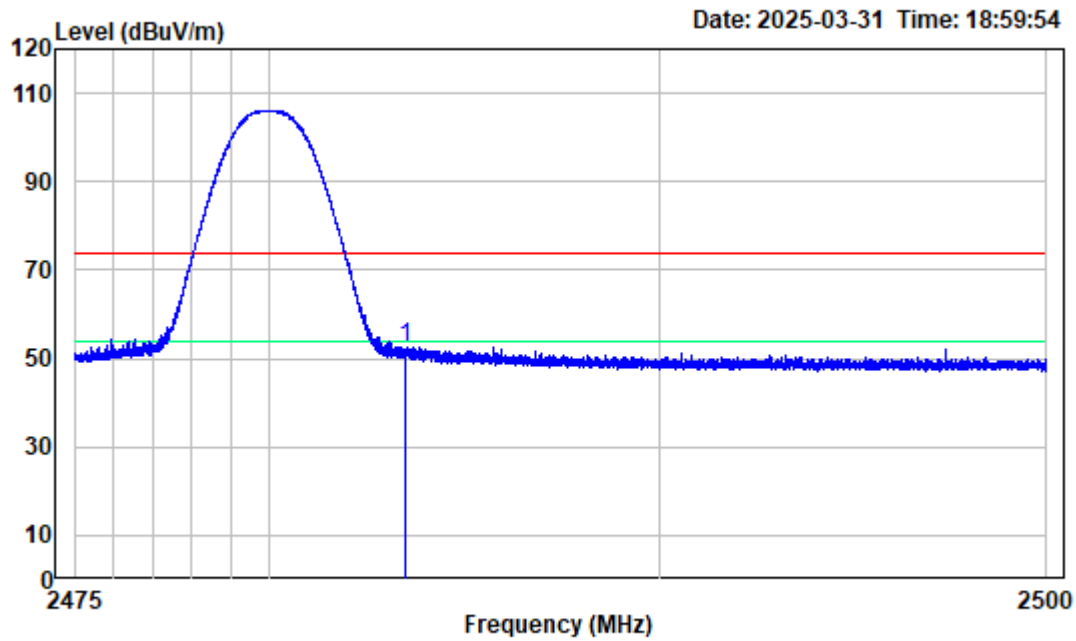
Test Mode : Transmitting

Tester:Kevin Lv

Note : BLE 1M High Channel 2480MHz

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

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.22	62.11	51.89	74.00	-22.11	peak



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504R26435E-RFSerial No.:2ZQ0-4

Test Mode : TransmittingTester:Kevin Lv

Note : BLE 1M High Channel 2480MHz

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

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.500	-10.22	62.72	52.50	74.00	-21.50	peak

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

Applicable Standard

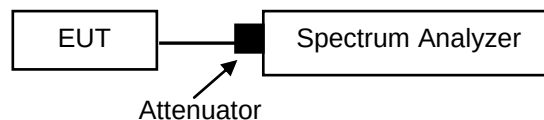
Systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

Test Procedure

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

The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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.



Test Data

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.

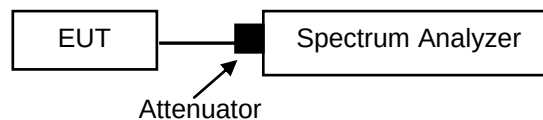
Test Procedure

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:

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



Test Data

Please refer to the Appendix.

FCC §15.247(d)-100KHZ 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.

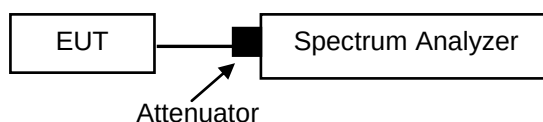
e) Sweep time = No faster than coupled (auto) time.

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

Please refer to the Appendix.

FCC §15.247(e)-POWER SPECTRAL DENSITY

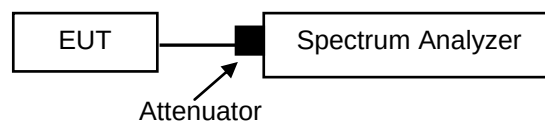
Applicable Standard

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

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



Test Data

Please refer to the Appendix.

APPENDIX(RF TEST RESULTS)

6dB Emission Bandwidth

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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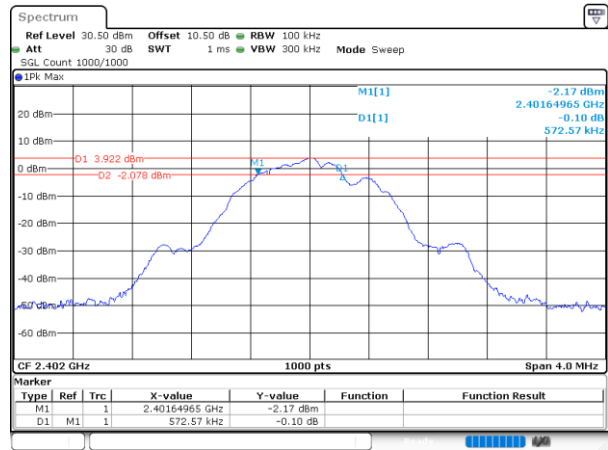
Test Data:

BLE 1M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.573	≥0.5	Pass
Middle	0.569	≥0.5	Pass
High	0.573	≥0.5	Pass

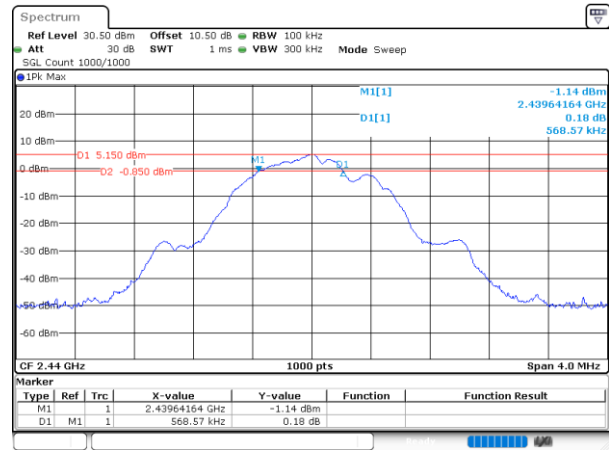
BLE 1M

BLE_1M_Low_Channel



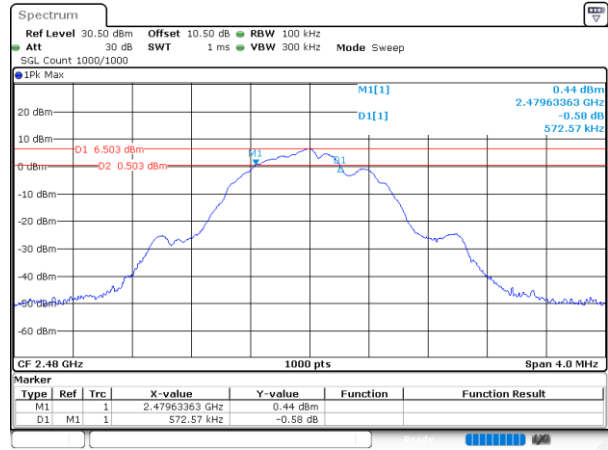
ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:10:22

BLE_1M_Middle_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:16:15

BLE_1M_High_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:19:17

99% Occupied Bandwidth

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	/

Environmental Conditions:

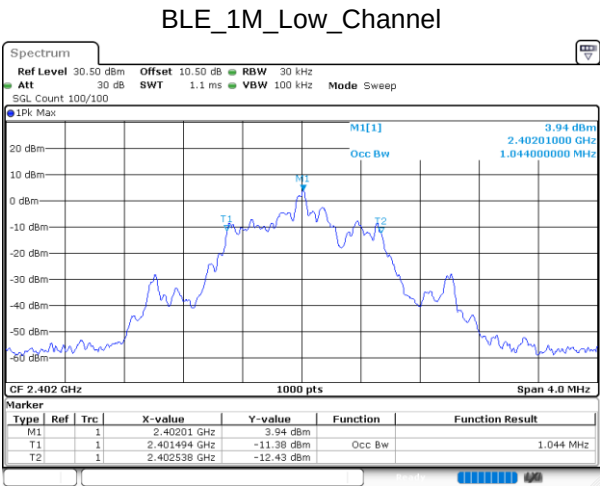
Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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Test Data:

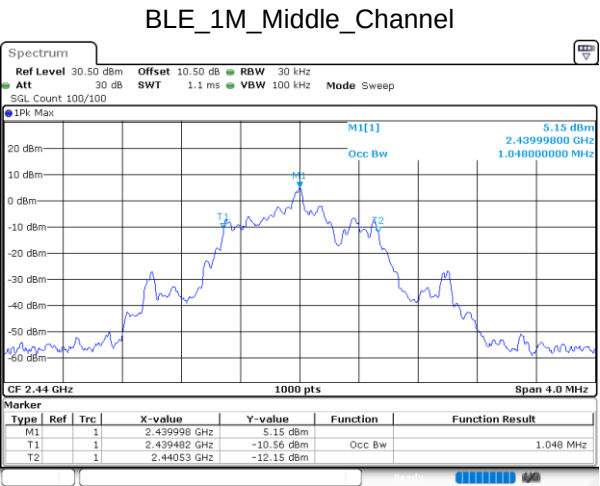
BLE 1M

Channel	99% OBW (MHz)
Low	1.044
Middle	1.048
High	1.044

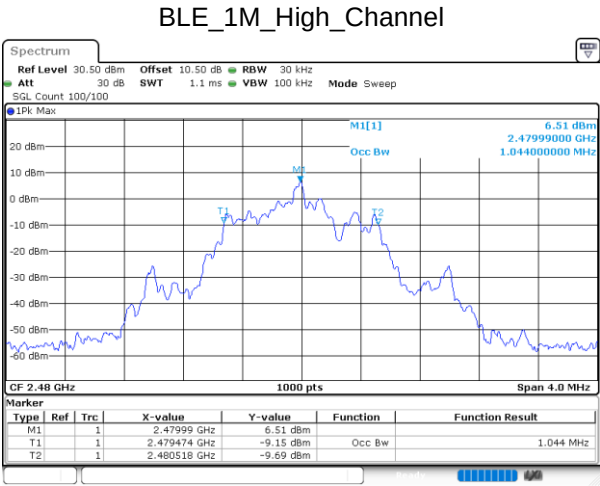
BLE 1M



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:10:48



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:16:37



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:19:37

Maximum Conducted Output Power

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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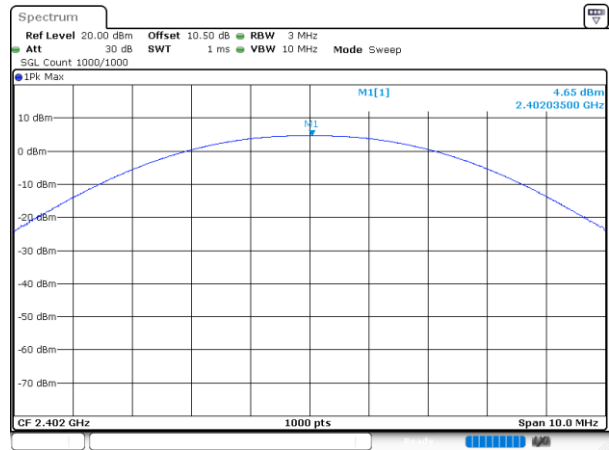
Test Data:

BLE 1M

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
Low	4.65	30.00	Pass
Middle	5.94	30.00	Pass
High	7.20	30.00	Pass

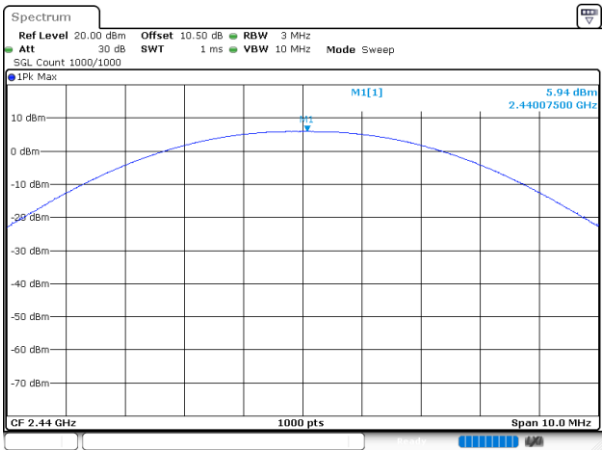
BLE 1M

BLE_1M_Low_Channel



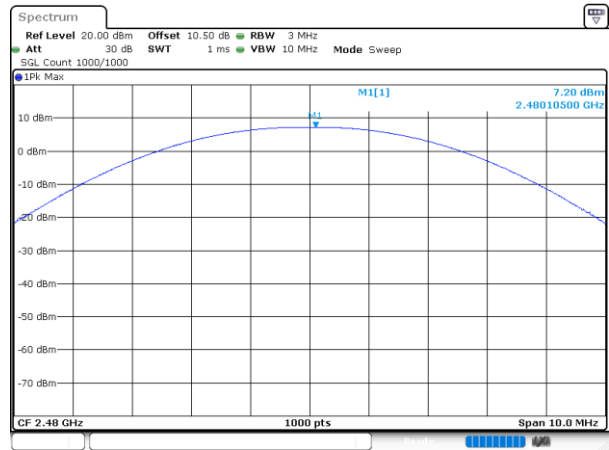
ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:12:37

BLE_1M_Middle_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:17:37

BLE_1M_High_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:21:04

Power Spectral Density

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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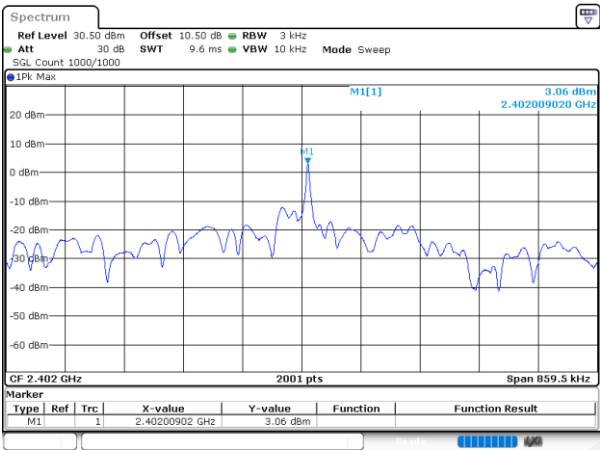
Test Data:

BLE 1M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	3.06	8	Pass
Middle	4.38	8	Pass
High	5.62	8	Pass

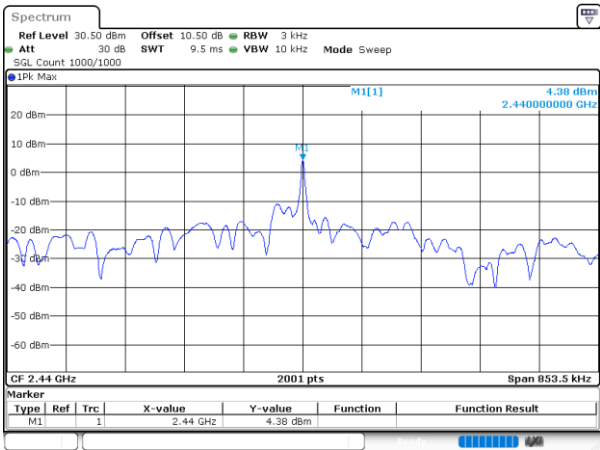
BLE 1M

BLE_1M_Low_Channel



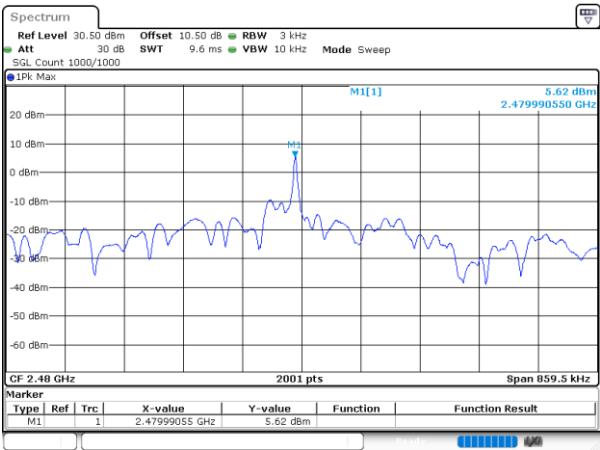
ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:13:13

BLE_1M_Middle_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:18:11

BLE_1M_High_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:21:38

100 kHz Bandwidth of Frequency Band Edge

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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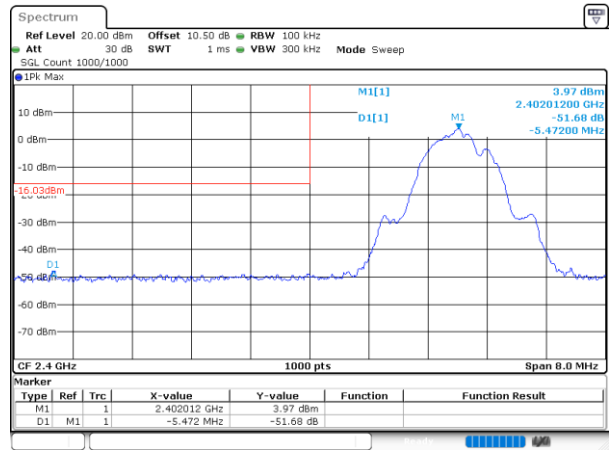
Test Data:

BLE 1M

Channel	Result (dB)	Limit (dB)	Verdict
Low	51.68	20	Pass
High	54.64	20	Pass

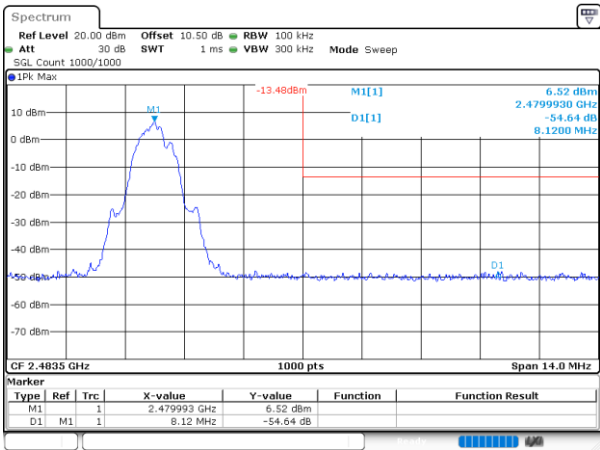
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:09:51

BLE_1M_High_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:18:56

Duty Cycle

Test Information:

Sample No.:	2ZPZ-2	Test Date:	2025/03/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.4
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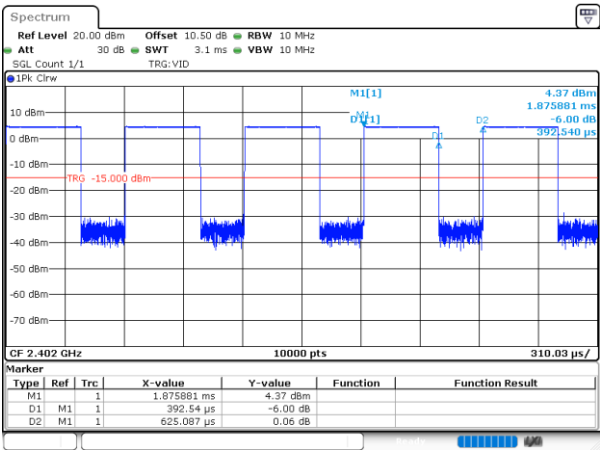
Test Data:

BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Low	0.393	0.625	62.88	2.01	2545	3
Middle	0.393	0.625	62.88	2.01	2545	3
High	0.393	0.625	62.88	2.01	2545	3

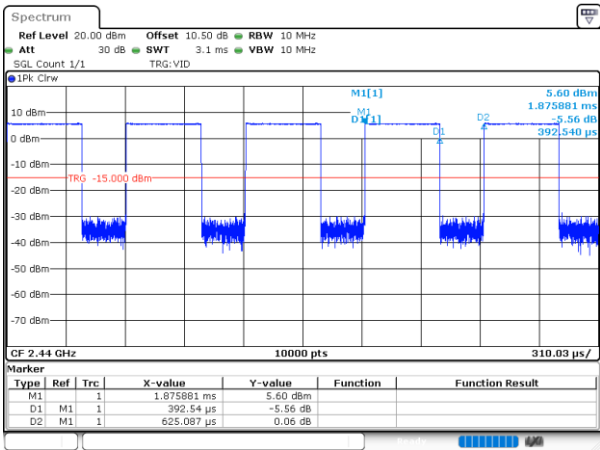
BLE 1M

BLE_1M_Low_Channel



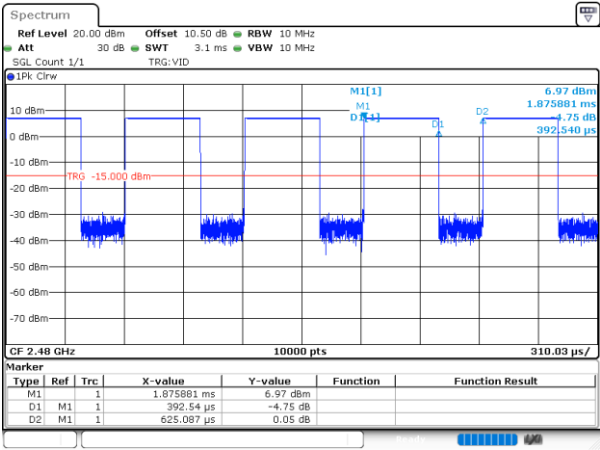
ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:12:15

BLE_1M_Middle_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:17:17

BLE_1M_High_Channel



ProjectNo.:2504R26435E-RF Tester:Cayde Hou
Date: 27.MAR.2025 13:20:32

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Annex:2504R26435E-RFEUT EXTERNAL PHOTOGRAPHSand2504R26435E-RFEUT INTERNAL PHOTOGRAPHS.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment:2504R26435E-RF-00ATEST SETUP PHOTOGRAPHS.

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