

TEST REPORT

Applicant: Fujian LANDI Commercial Equipment Co.,Ltd.

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Gulou District, Fuzhou Municipality, Fujian Province, China

Product Name: Mobile Terminal

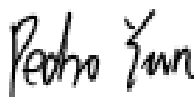
FCC ID: 2AG6N-M20

Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

Report Number: 2402Z105148E-RF-00BA1

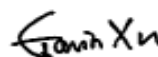
Report Date: 2025/7/18

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	XMDN240206-08120E-RF-00B	Original Report	2024/6/14
2.0	2402Z105148E-RF-00BA1	Class II Permissive Change Report	2025/7/18

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Mobile Terminal
EUT Model:	M20SE
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted)▲:	7.76dBm
Modulation Type:	GFSK
Rated Input Voltage:	5Vdc from Adapter or 7.7Vdc from battery
Serial Number:	2UEW-24 (For RF Conducted Test: Configuration 3#) 2UEW-22 (For RF Conducted Test: Configuration 4#) 2UEW-21 (For RF Conducted Test: Configuration 5#) 2UEW-36 (For Radiated spurious emission and AC line conducted emission tests: Configuration 3#) 2UEW-35 (For Radiated spurious emission and AC line conducted emission tests: Configuration 4#) 2UEW-7 (For Radiated spurious emission and AC line conducted emission tests: Configuration 5#)
EUT Received Date:	2024/11/19
EUT Received Status:	Good
Note : The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Configuration Information:

Configuration	HVIN	Scanning camera (LD47)	Scanning camera (N5703) (old)
3#	M20SES1	×	√
4#	M20SES0	×	×
5#	M20SES2	√	×

Battery Information:

Battery No.	Manufacturer	Model	Parameters
1#	HuiZhou Ganfeng LiEnergy Battery Technology Co.,LTD.	526265-2S (2ICP6/62/65)	DC 7.7V 3550mAh/27.34Wh
2#	SCUD(Fujian)Electronics Co.,LTD	526266-2S (2ICP6/62/66)	DC 7.7V 3620mAh/27.874Wh

Adapter Information:

Adapter No.	Manufacturer	Model	Parameters
1#	Something High Electric (Xiamen) Company Inc.	P12GUSB050200	Input: 100-240Vac~50/60Hz 0.3A Output: 5.0Vdc,2.0A
2#	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO., LTD	KA1602-0502000DEU	Input: 100-240Vac~50/60Hz 0.35A Output: 5.0Vdc 2.0A,10W

1.3 Antenna Information Detail ▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	2400-2500MHz	-1.5 dBi
The design of compliance with §15.203:			
☒ Unit uses a permanently attached antenna.			
☐ Unit uses a unique coupling to the intentional radiator.			
☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.247(a)(2)	6dB Emission Bandwidth	Compliant*
FCC §15.247(b)(1)	Maximum Conducted Output Power	Reporting
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant*
FCC §15.247(e)	Power Spectral Density	Compliant*
FCC §15.203	Antenna Requirement	Compliant
Purpose: This is Class II permissive change application based on the original device, model: M20,M20SE, FCC ID: 2AG6N-M20, please refer to report No.: XMDN240206-08120E-RF-00B, issued on 2024/6/14. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following: 1. Model M20SE added a scanning camera (model: LD47). 2. Model M20SE Changed BT/WIFI/GPS and WWAN Main Antenna. The Bay Area Compliance Laboratories Corp.(Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz and 18-25GHz, the maximum output power mode and channel was tested. Note 3: Per original report, Powered by Adapter #1 and Battery #1 was the worst for AC Line Conducted Emissions and Radiated Spurious Emission, so only performed it. Note 4: Compliant*: The change of the EUT does not affect the test result, the test result please refer to original report NO.: XMDN240206-08120E-RF-00B.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
...	...	38	2478
19	2440	39	2480

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
AC Line Conducted Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#
Radiated Spurious Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#

3.3 EUT Exercise Software

EUT Exercise Software:	QRCT4		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
BLE 1Mbps	Default	Default	Default

3.4 Support Equipment List and Details

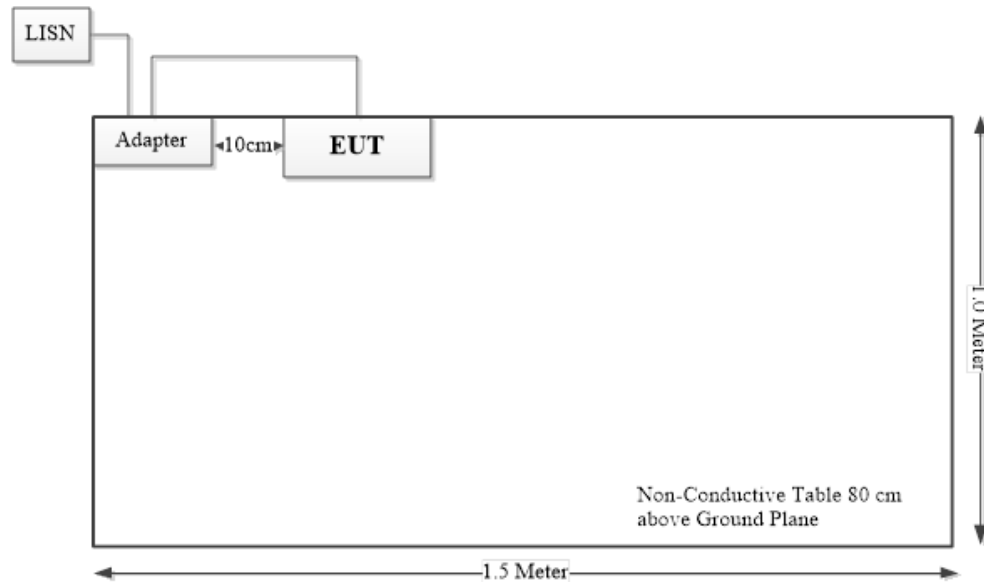
Manufacturer	Description	Model	Serial Number
/	/	/	/

3.5 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT

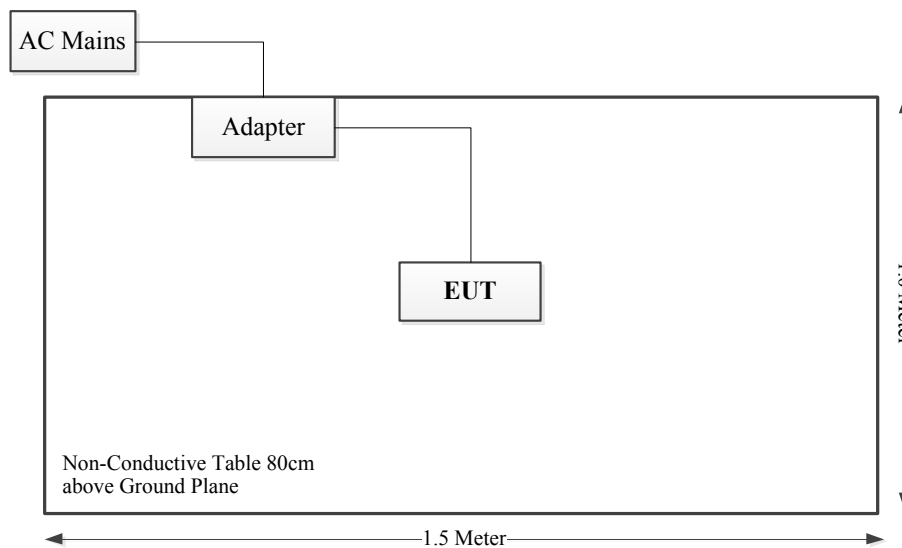
3.6 Block Diagram of Test Setup

AC line conducted emissions:

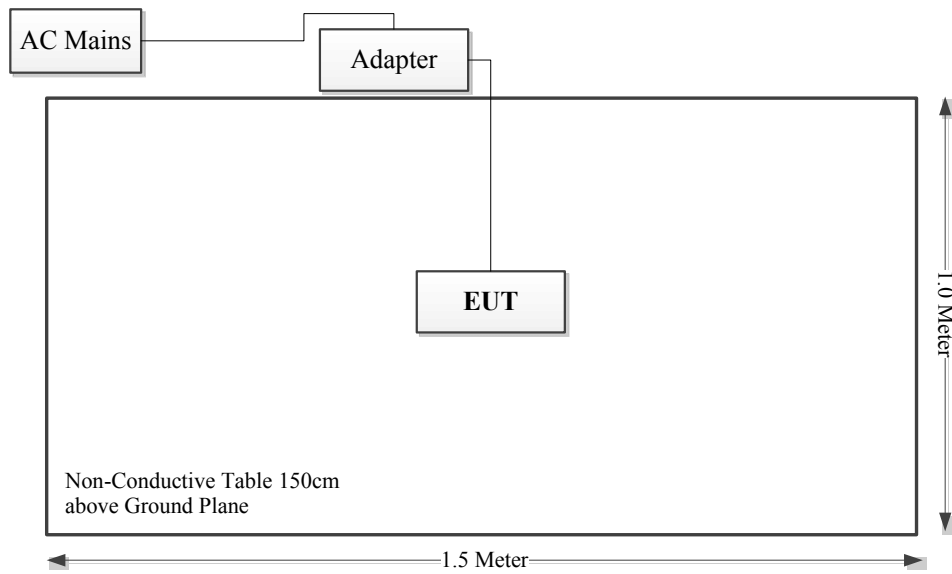


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.8 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB,200MHz~1GHz: 5.92 dB,1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

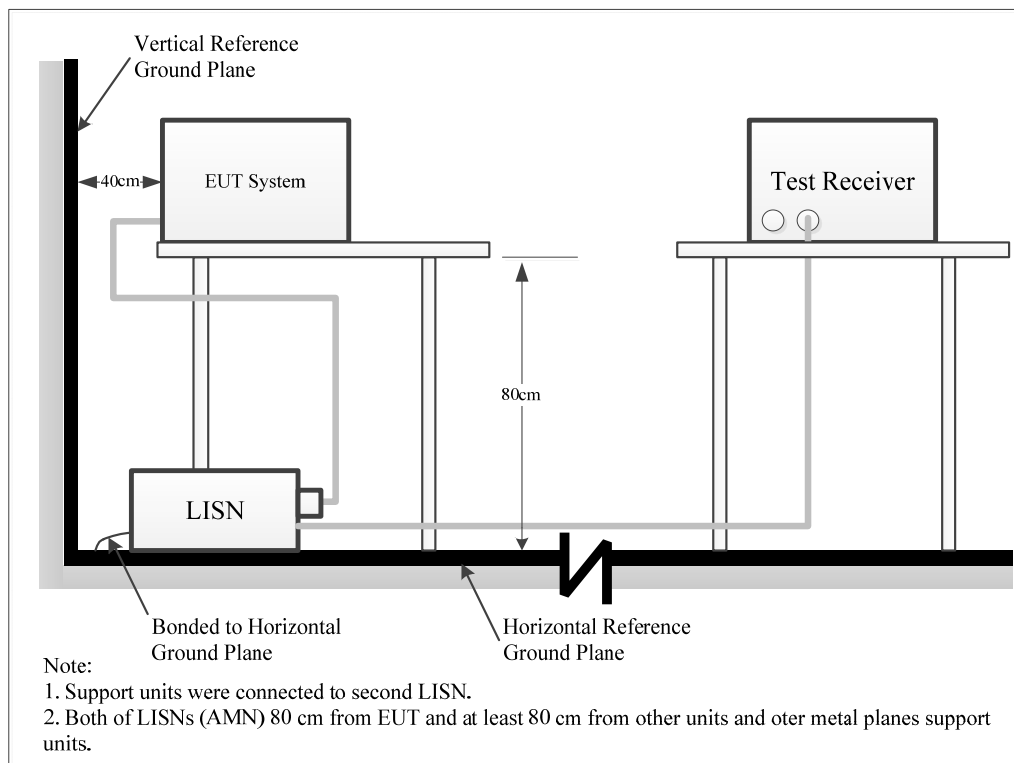
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10cm.

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

4.1.3 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

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground[protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Result& Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

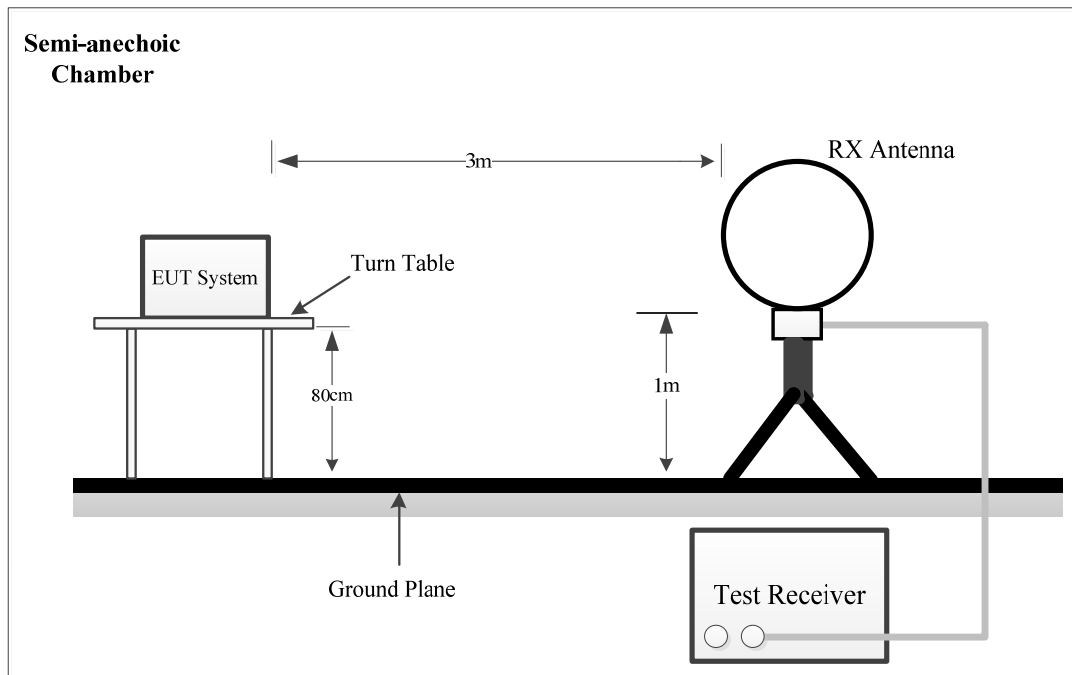
4.2.1 Applicable Standard

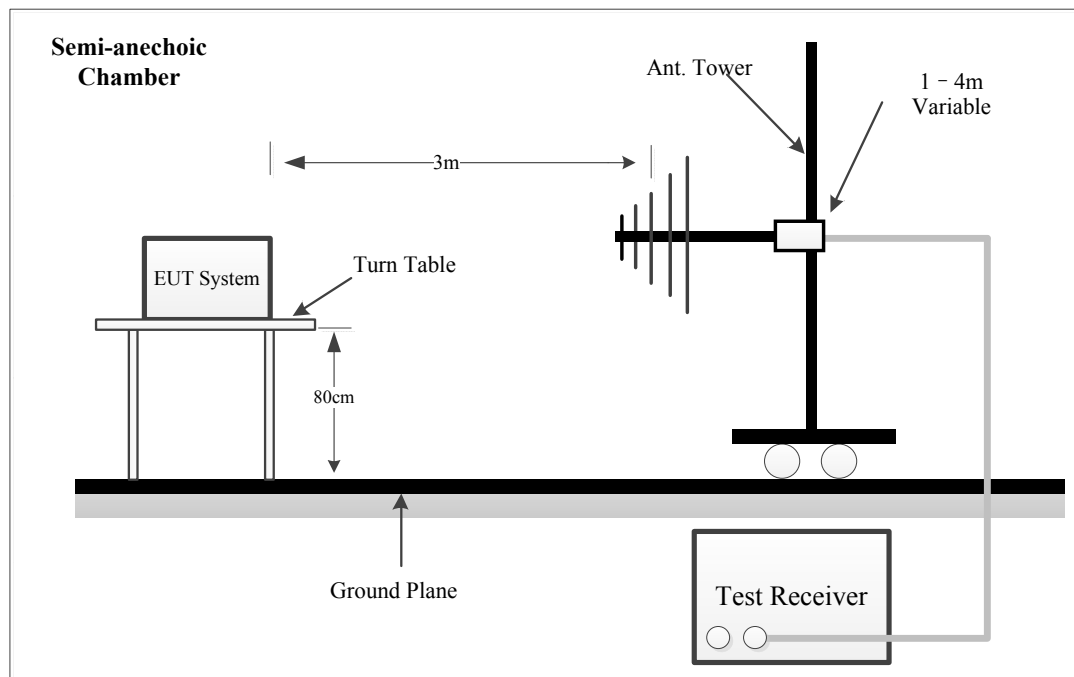
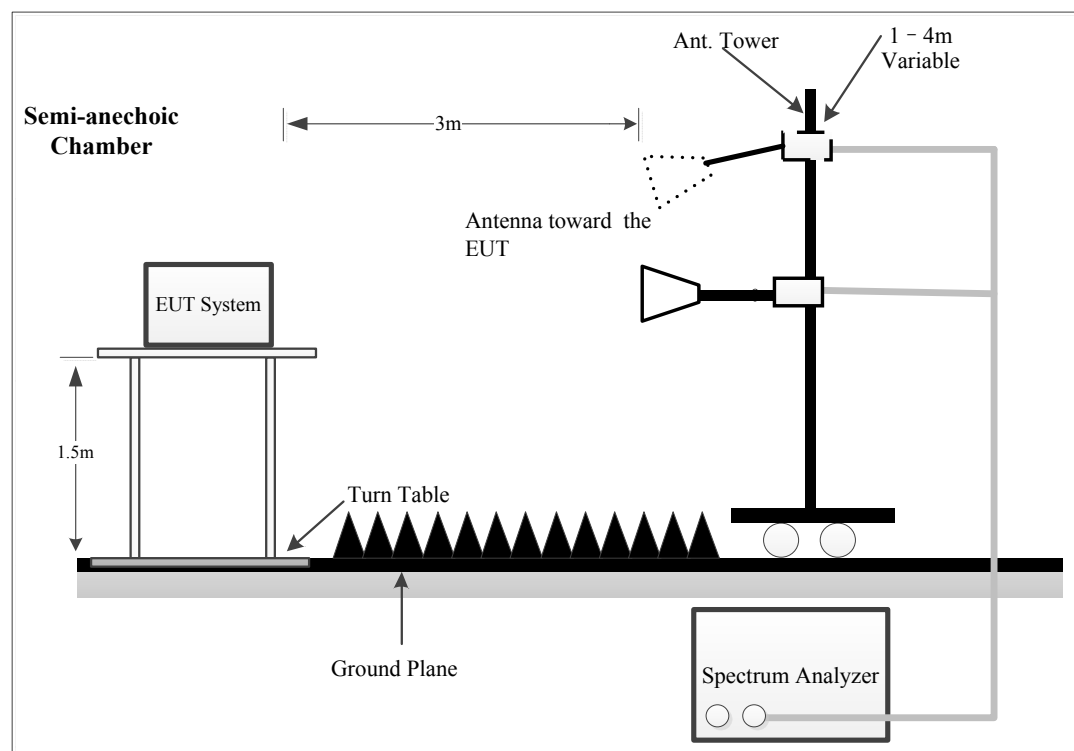
FCC §15.247 (d);

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)).

4.2.2 EUT Setup

9kHz-30MHz:



30MHz~1GHz:**Above 1GHz:**

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

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
9 kHz-150 kHz	QP/AV	300 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	100 kHz	300 kHz	/	PK
	QP	/	/	120 kHz	QP

1GHz- 25GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	PK	Any	1MHz	3 MHz
Ave.	PK	>98%	1MHz	10 Hz
		<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

4.2.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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

4.2.5 Corrected Result& Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in μ V/m

E_{Log} is the field strength of the emission, in dB μ V/m

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{\text{limit-measure}} = E_{\text{limit-Standard}} + 40 \times \log_{10} (d_{\text{standard}}/d_{\text{measure}})$$

The basic equation is as follows:

$$\text{Result} = \text{Reading} + \text{Factor}$$

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

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

$$\text{Margin} = \text{Limit} - \text{Result}$$

4.2.6 Test Result

Please refer to section 5.2.

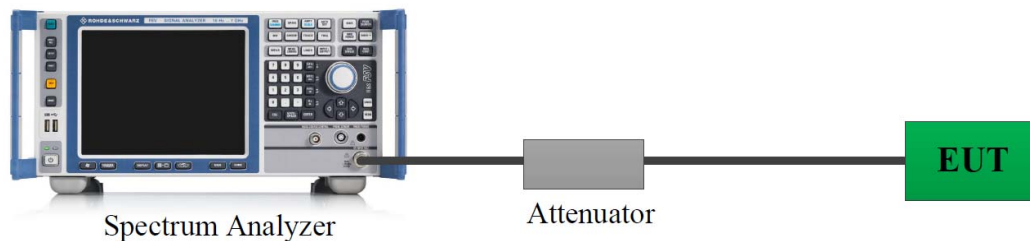
4.3 Maximum Conducted Output Power

4.3.1 Applicable Standard

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.

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.1

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:

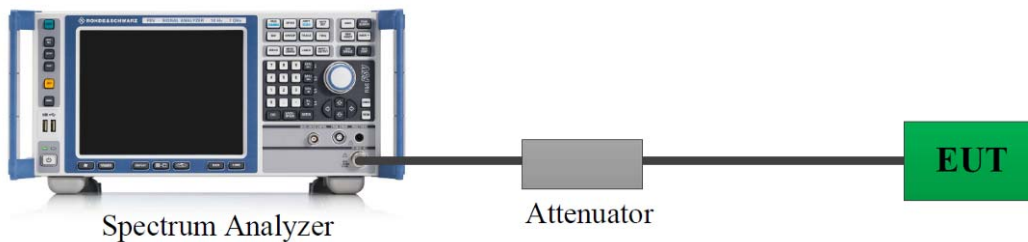
- Set the $RBW \geq DTS$ bandwidth.
- Set $VBW \geq [3 \times RBW]$.
- Set $span \geq [3 \times RBW]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

4.3.4 Test Result

Please refer to section 5.3.

4.4 Duty Cycle:

4.4.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.4.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

4.4.3 Judgment

Report Only. Please refer to section 5.4.

4.5 Antenna Requirement

4.5.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.5.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/11/22 ~2025/2/19
Test Site:	CE	Test Mode:	M1-M3
Tester:	Yolo Fan, Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3~24.9	Relative Humidity: (%)	49~56	ATM Pressure: (kPa)	101.7~102.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

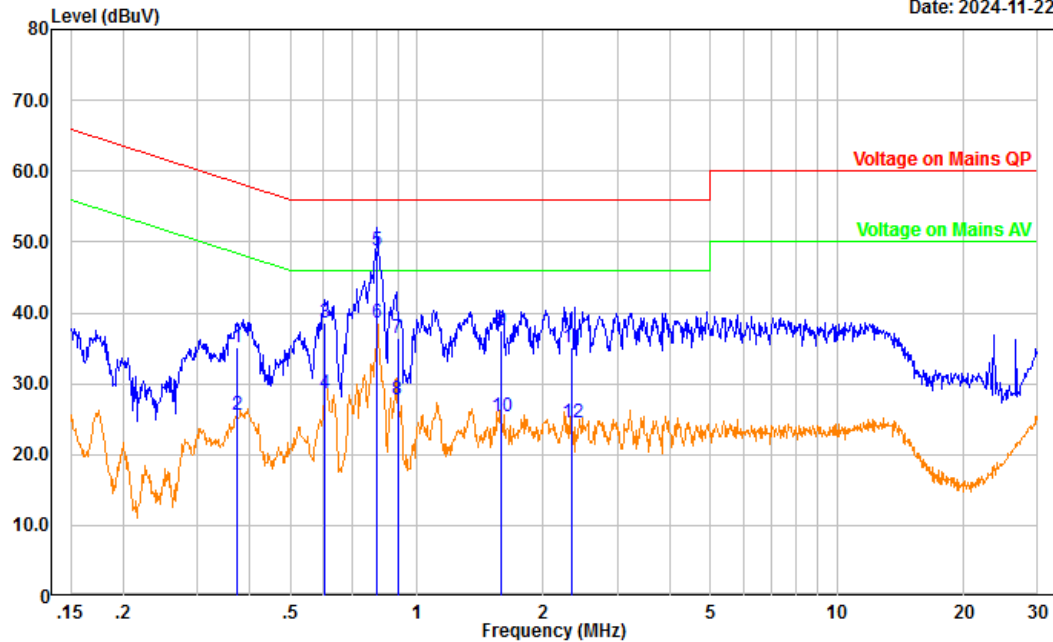
Note: The maximum output power mode: BLE 1Mbps Low channel was tested.

M1:

Project No.: 2402Z105148E-RF-A1
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-7
Tester: Yolo Fan

Date: 2024-11-22

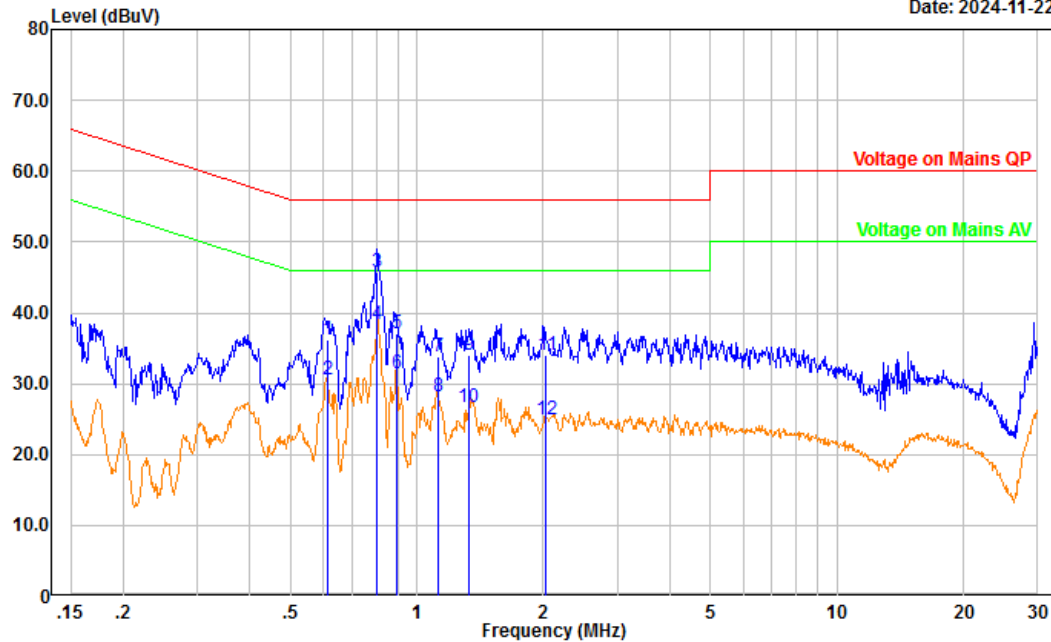


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.375	24.29	10.83	35.12	58.40	23.28	QP
2	0.375	14.74	10.83	25.57	48.40	22.83	Average
3	0.605	27.79	10.82	38.61	56.00	17.39	QP
4	0.605	17.85	10.82	28.67	46.00	17.33	Average
5	0.806	38.04	10.85	48.89	56.00	7.11	QP
6	0.806	27.74	10.85	38.59	46.00	7.41	Average
7	0.899	25.50	10.86	36.36	56.00	19.64	QP
8	0.899	16.91	10.86	27.77	46.00	18.23	Average
9	1.583	26.62	10.83	37.45	56.00	18.55	QP
10	1.583	14.53	10.83	25.36	46.00	20.64	Average
11	2.337	24.31	10.81	35.12	56.00	20.88	QP
12	2.337	13.75	10.81	24.56	46.00	21.44	Average

Project No.: 2402Z105148E-RF-A1
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-7
Tester: Yolo Fan

Date: 2024-11-22

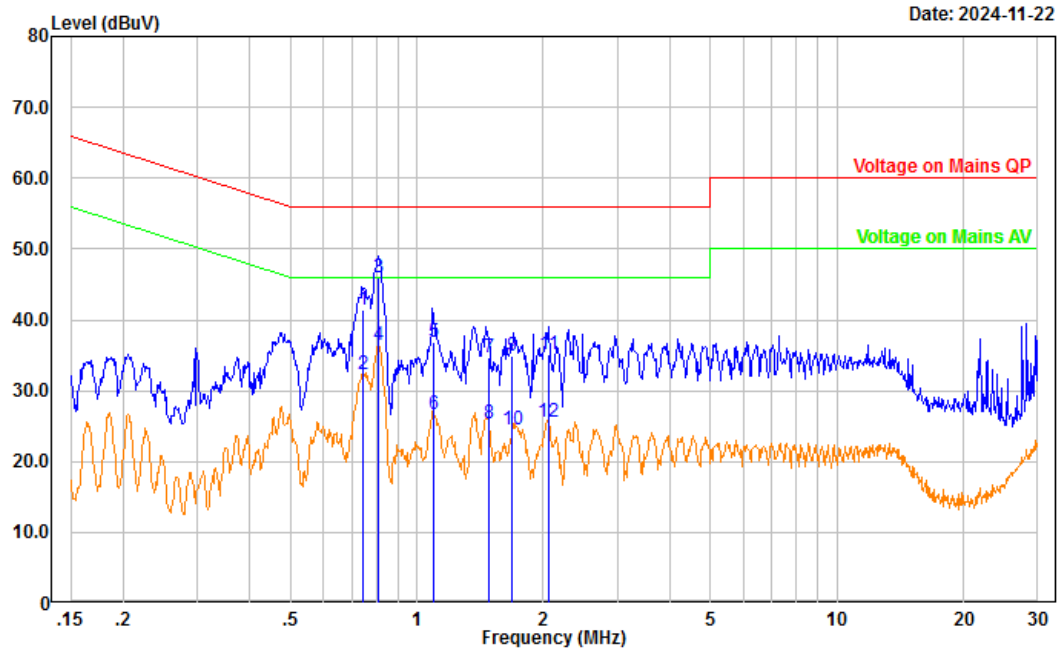


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.613	25.53	10.73	36.26	56.00	19.74	QP
2	0.613	19.94	10.73	30.67	46.00	15.33	Average
3	0.804	35.05	10.78	45.83	56.00	10.17	QP
4	0.804	27.69	10.78	38.47	46.00	7.53	Average
5	0.894	26.35	10.82	37.17	56.00	18.83	QP
6	0.894	20.62	10.82	31.44	46.00	14.56	Average
7	1.125	22.94	10.86	33.80	56.00	22.20	QP
8	1.125	17.33	10.86	28.19	46.00	17.81	Average
9	1.325	23.14	10.87	34.01	56.00	21.99	QP
10	1.325	15.81	10.87	26.68	46.00	19.32	Average
11	2.031	23.16	10.92	34.08	56.00	21.92	QP
12	2.031	14.01	10.92	24.93	46.00	21.07	Average

M2:

Project No.: 2402Z105148E-RF-A1
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-35
Tester: Yolo Fan

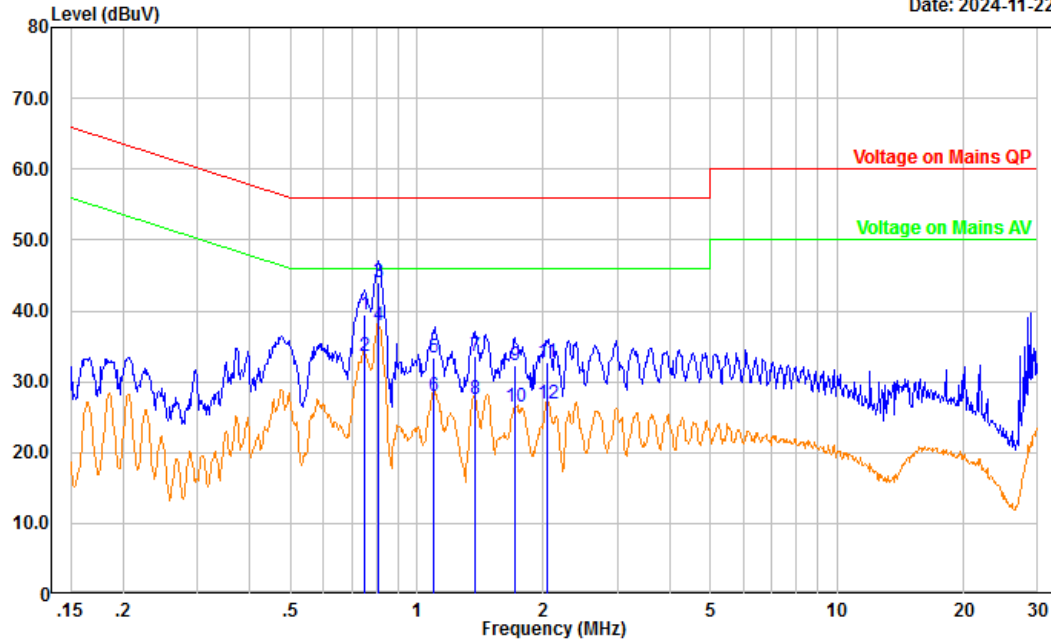


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.744	30.55	10.86	41.41	56.00	14.59	QP
2	0.744	21.47	10.86	32.33	46.00	13.67	Average
3	0.807	35.14	10.85	45.99	56.00	10.01	QP
4	0.807	25.66	10.85	36.51	46.00	9.49	Average
5	1.092	26.09	10.85	36.94	56.00	19.06	QP
6	1.092	15.92	10.85	26.77	46.00	19.23	Average
7	1.489	23.79	10.84	34.63	56.00	21.37	QP
8	1.489	14.55	10.84	25.39	46.00	20.61	Average
9	1.688	24.17	10.83	35.00	56.00	21.00	QP
10	1.688	13.65	10.83	24.48	46.00	21.52	Average
11	2.051	24.23	10.82	35.05	56.00	20.95	QP
12	2.051	14.81	10.82	25.63	46.00	20.37	Average

Project No.: 2402Z105148E-RF-A1
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-35
Tester: Yolo Fan

Date: 2024-11-22



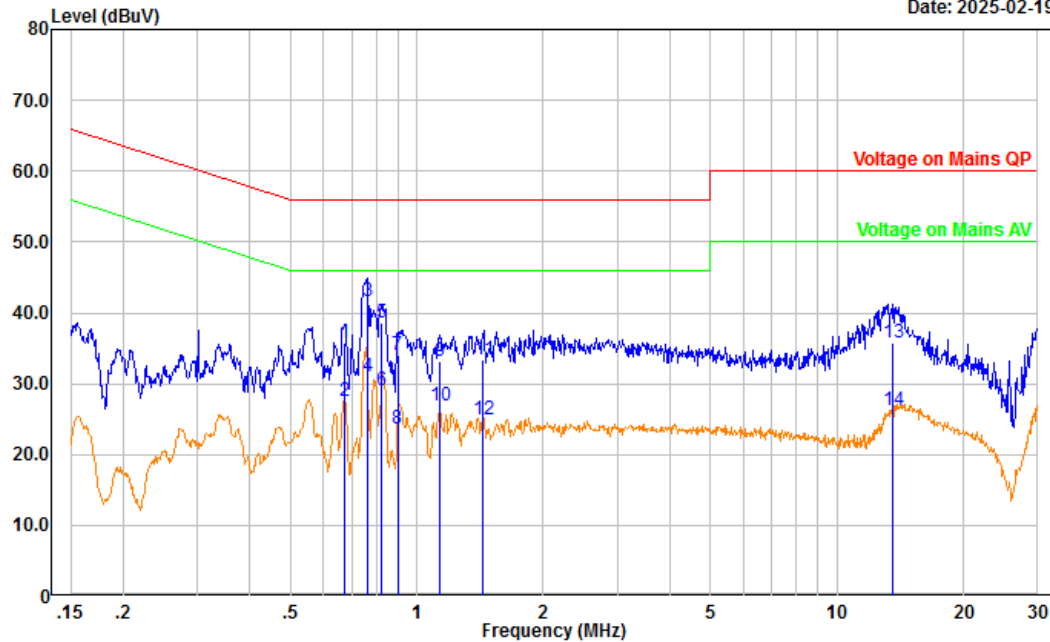
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.751	28.76	10.77	39.53	56.00	16.47	QP
2	0.751	22.88	10.77	33.65	46.00	12.35	Average
3	0.811	33.16	10.79	43.95	56.00	12.05	QP
4	0.811	27.22	10.79	38.01	46.00	7.99	Average
5	1.097	22.60	10.86	33.46	56.00	22.54	QP
6	1.097	17.08	10.86	27.94	46.00	18.06	Average
7	1.376	22.64	10.88	33.52	56.00	22.48	QP
8	1.376	16.75	10.88	27.63	46.00	18.37	Average
9	1.710	21.31	10.90	32.21	56.00	23.79	QP
10	1.710	15.48	10.90	26.38	46.00	19.62	Average
11	2.040	21.90	10.92	32.82	56.00	23.18	QP
12	2.040	15.91	10.92	26.83	46.00	19.17	Average

M3:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-36
 Tester: Yukin Qiu

Date: 2025-02-19

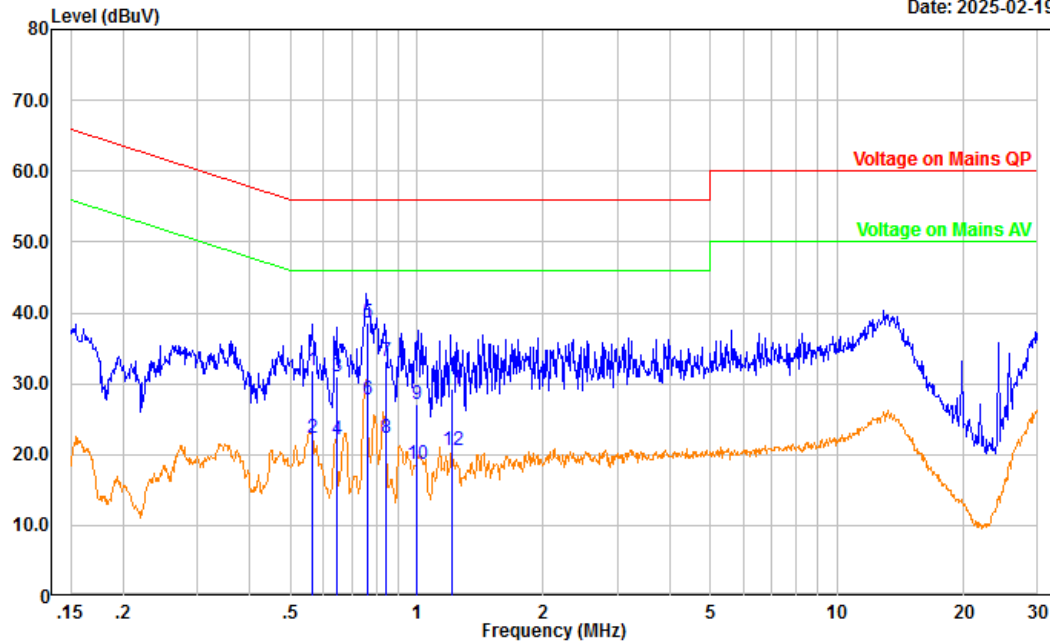


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.673	24.85	10.85	35.70	56.00	20.30	QP
2	0.673	16.66	10.85	27.51	46.00	18.49	Average
3	0.764	30.73	10.85	41.58	56.00	14.42	QP
4	0.764	20.07	10.85	30.92	46.00	15.08	Average
5	0.823	27.68	10.85	38.53	56.00	17.47	QP
6	0.823	18.12	10.85	28.97	46.00	17.03	Average
7	0.900	23.16	10.86	34.02	56.00	21.98	QP
8	0.900	12.83	10.86	23.69	46.00	22.31	Average
9	1.135	22.29	10.85	33.14	56.00	22.86	QP
10	1.135	15.93	10.85	26.78	46.00	19.22	Average
11	1.440	22.53	10.84	33.37	56.00	22.63	QP
12	1.440	14.14	10.84	24.98	46.00	21.02	Average
13	13.580	24.88	10.83	35.71	60.00	24.29	QP
14	13.580	15.49	10.83	26.32	50.00	23.68	Average

Project No.: 2402Z105148E-RF-A1
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-36
Tester: Yukin Qiu

Date: 2025-02-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.565	21.11	10.73	31.84	56.00	24.16	QP
2	0.565	11.58	10.73	22.31	46.00	23.69	Average
3	0.643	20.33	10.74	31.07	56.00	24.93	QP
4	0.643	11.48	10.74	22.22	46.00	23.78	Average
5	0.763	27.90	10.77	38.67	56.00	17.33	QP
6	0.763	17.02	10.77	27.79	46.00	18.21	Average
7	0.845	22.28	10.80	33.08	56.00	22.92	QP
8	0.845	11.57	10.80	22.37	46.00	23.63	Average
9	1.003	16.16	10.85	27.01	56.00	28.99	QP
10	1.003	7.85	10.85	18.70	46.00	27.30	Average
11	1.214	18.35	10.86	29.21	56.00	26.79	QP
12	1.214	9.78	10.86	20.64	46.00	25.36	Average

5.2 Radiation Spurious Emissions

1)9kHz - 1GHz

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/12/2-2025/2/21
Test Site:	Chamber A	Test Mode:	M1-M3
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8-22.9	Relative Humidity: (%)	30-49	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

Test Data:

Please refer to the below plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Note: The maximum output power mode: BLE 1Mbps Low channel was tested.

9kHz~30MHz

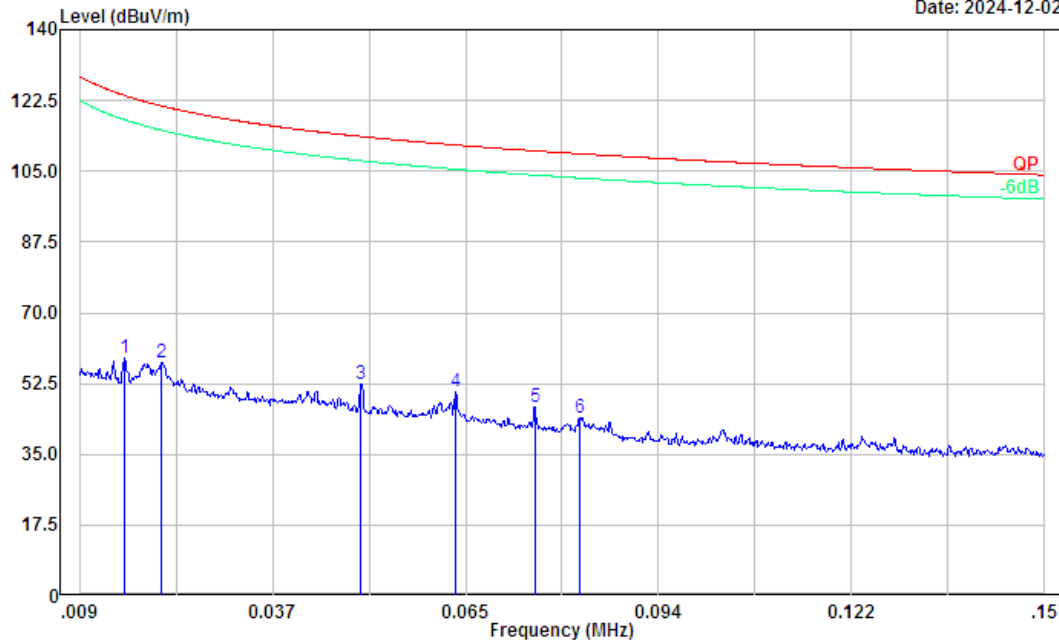
Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

M1:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M1
: RBW:300Hz VBW:1kHz

Serial No.: 2UEW-7
Tester: Alan Xie

Date: 2024-12-02

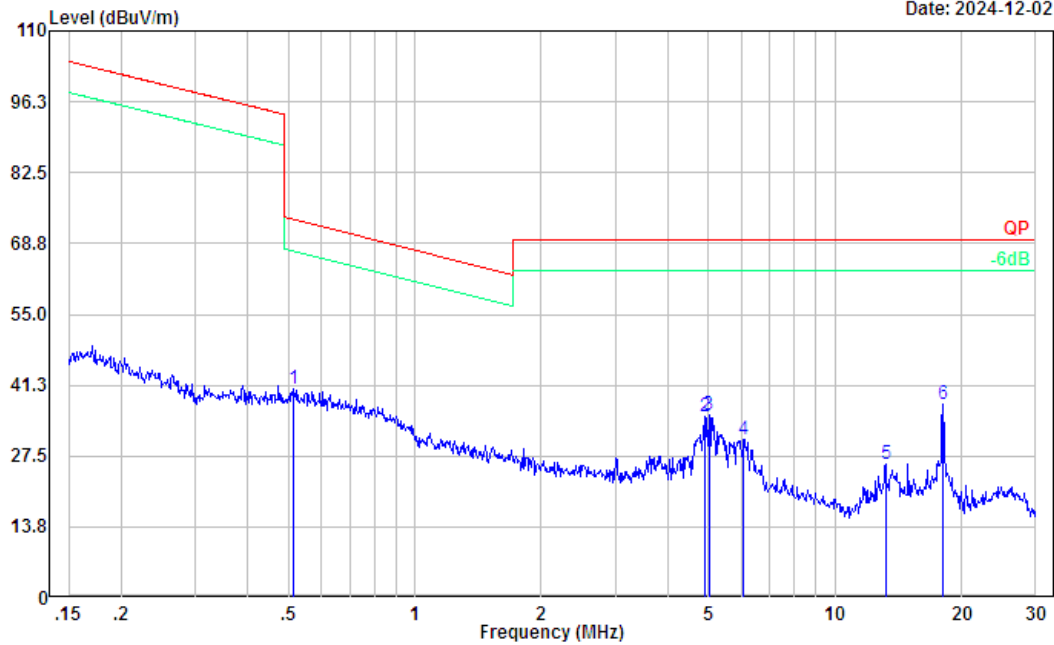


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.015	8.81	50.15	58.96	123.81	64.85	Peak
2	0.021	9.01	48.77	57.78	121.17	63.39	Peak
3	0.050	9.03	43.41	52.44	113.60	61.16	Peak
4	0.064	9.31	41.15	50.46	111.48	61.02	Peak
5	0.076	7.46	39.17	46.63	110.04	63.41	Peak
6	0.082	6.10	37.97	44.07	109.32	65.25	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M1
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-7
Tester: Alan Xie

Date: 2024-12-02

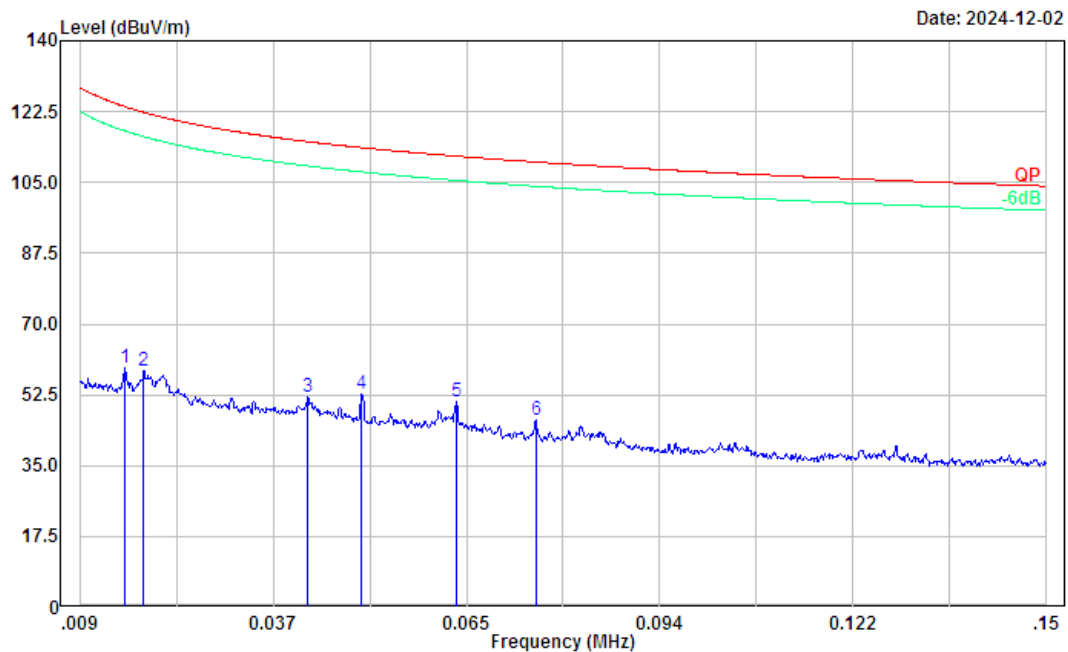


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.516	17.94	22.52	40.46	73.35	32.89	Peak
2	4.900	29.32	5.84	35.16	69.54	34.38	Peak
3	5.005	29.84	5.70	35.54	69.54	34.00	Peak
4	6.056	25.67	5.04	30.71	69.54	38.83	Peak
5	13.197	22.22	3.82	26.04	69.54	43.50	Peak
6	18.039	33.68	3.78	37.46	69.54	32.08	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:300Hz VBW:1kHz

Serial No.: 2UEW-35
Tester: Alan Xie

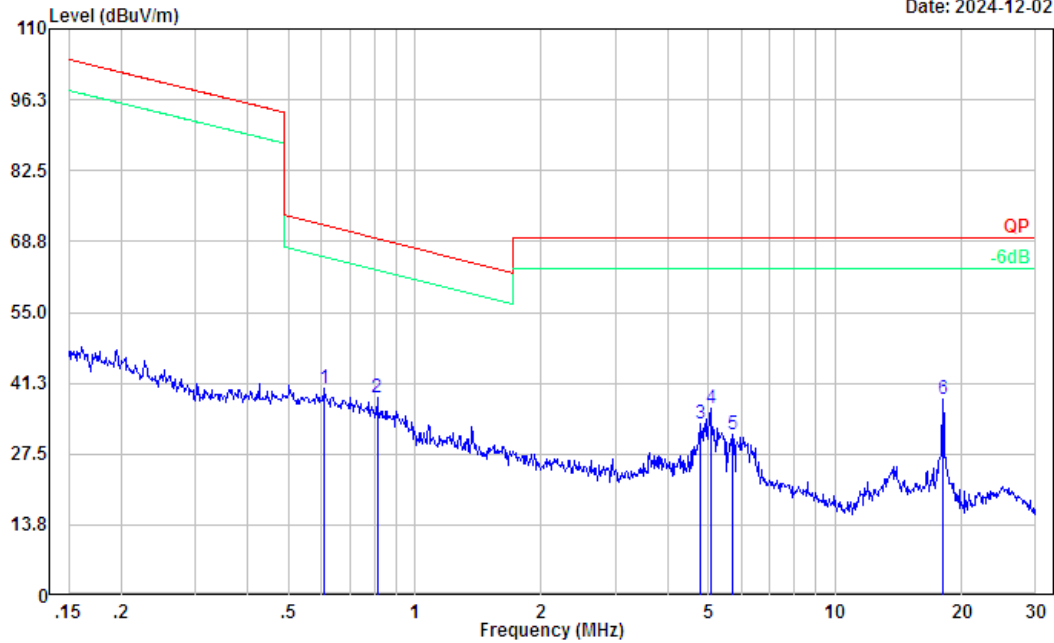


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.016	9.14	50.12	59.26	123.73	64.47	Peak
2	0.018	8.90	49.43	58.33	122.35	64.02	Peak
3	0.042	7.50	44.59	52.09	115.08	62.99	Peak
4	0.050	9.22	43.41	52.63	113.60	60.97	Peak
5	0.064	9.67	41.15	50.82	111.48	60.66	Peak
6	0.076	7.12	39.17	46.29	110.04	63.75	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-35
Tester: Alan Xie

Date: 2024-12-02

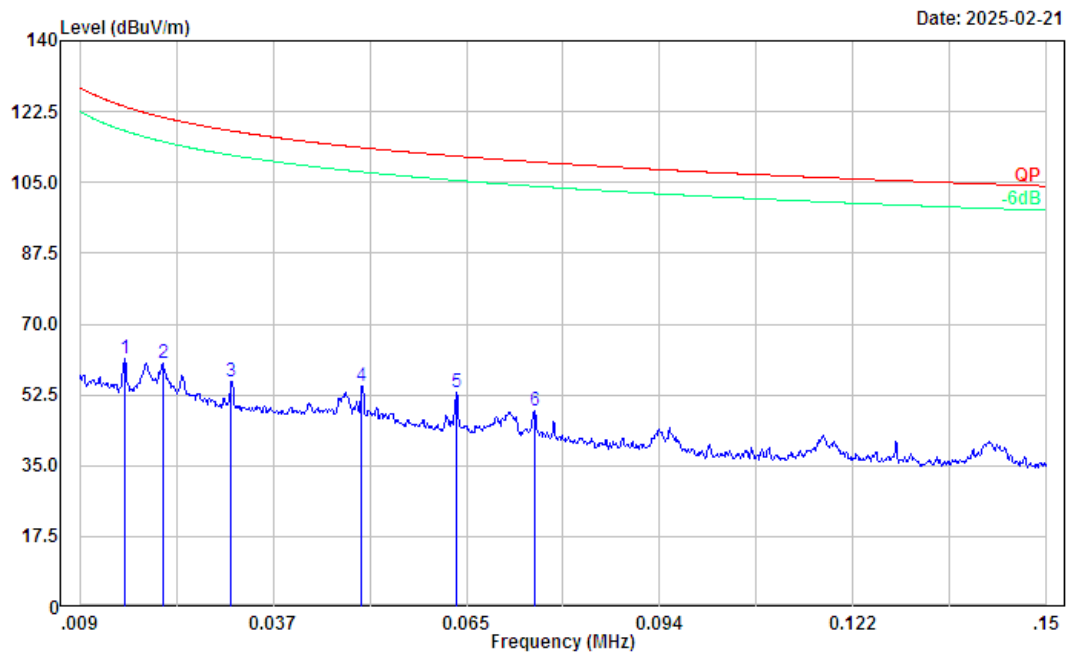


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.611	18.62	21.74	40.36	71.85	31.49	Peak
2	0.813	18.90	19.47	38.37	69.31	30.94	Peak
3	4.797	27.28	5.97	33.25	69.54	36.29	Peak
4	5.058	30.60	5.66	36.26	69.54	33.28	Peak
5	5.683	25.93	5.25	31.18	69.54	38.36	Peak
6	18.039	34.46	3.78	38.24	69.54	31.30	Peak

M3:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M3
: RBW:300Hz VBW:1kHz

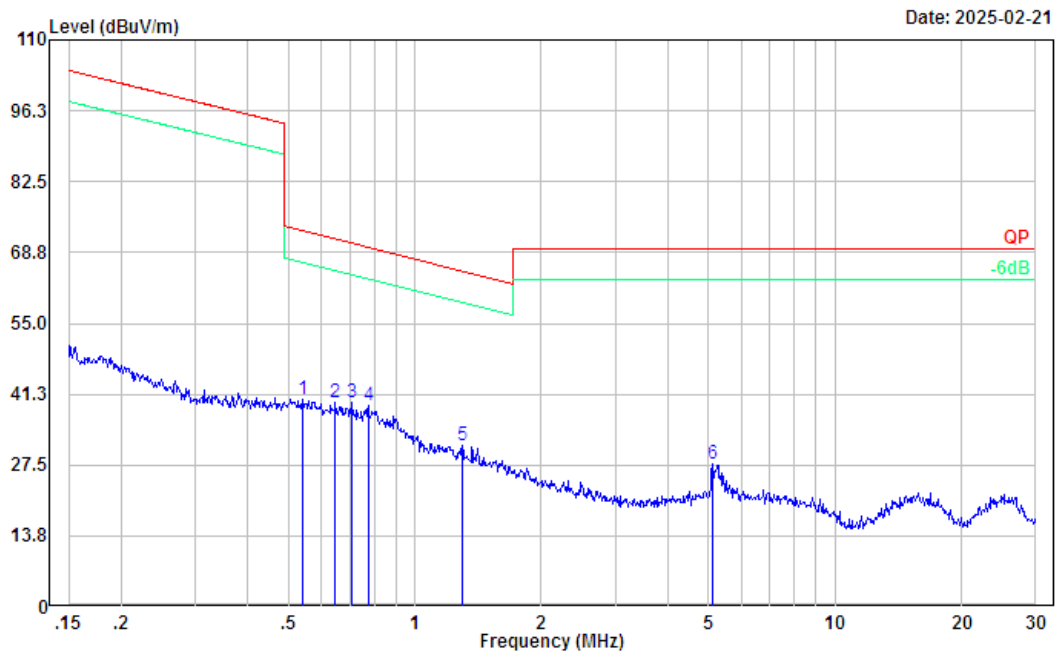
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.016	11.32	50.12	61.44	123.73	62.29	Peak
2	0.021	11.47	48.75	60.22	121.11	60.89	Peak
3	0.031	9.28	46.54	55.82	117.74	61.92	Peak
4	0.050	11.36	43.41	54.77	113.60	58.83	Peak
5	0.064	11.96	41.15	53.11	111.48	58.37	Peak
6	0.075	9.30	39.21	48.51	110.07	61.56	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M3
: RBW:10kHz VBW:30kHz

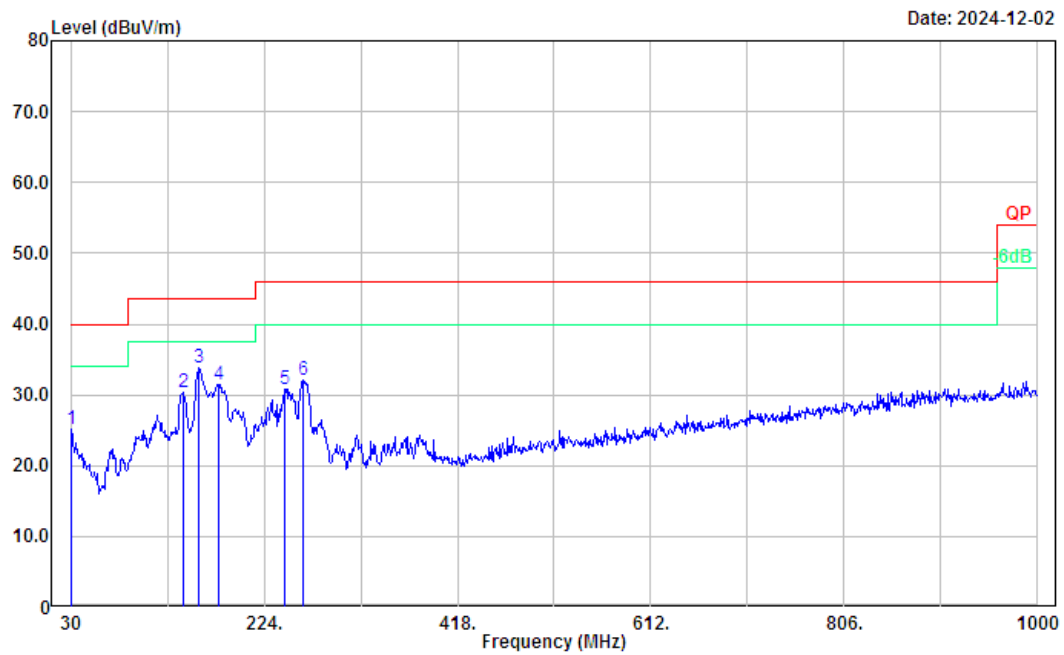
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.541	17.89	22.33	40.22	72.93	32.71	Peak
2	0.647	18.32	21.30	39.62	71.33	31.71	Peak
3	0.708	18.96	20.57	39.53	70.53	31.00	Peak
4	0.775	19.05	19.92	38.97	69.73	30.76	Peak
5	1.296	17.07	14.28	31.35	65.17	33.82	Peak
6	5.112	22.05	5.63	27.68	69.54	41.86	Peak

30MHz-1GHz**M1:**

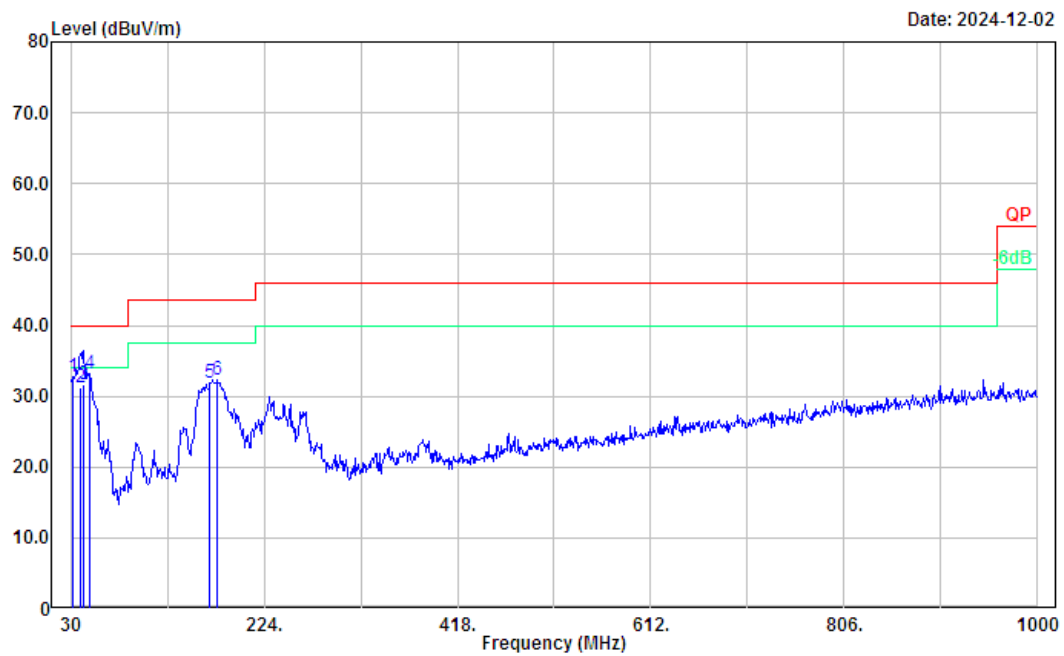
Project No.: 2402Z105148E-RF-A1 Serial No.: 2UEW-7
Polarization: Horizontal Tester: Alan Xie
Test Mode: Transmitting
Note: M1
: RBW:100kHz VBW:300kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	28.96	-3.71	25.25	40.00	14.75	Peak
2	142.52	41.33	-10.93	30.40	43.50	13.10	Peak
3	158.04	45.31	-11.46	33.85	43.50	9.65	Peak
4	178.41	43.60	-12.09	31.51	43.50	11.99	Peak
5	244.37	42.18	-11.29	30.89	46.00	15.11	Peak
6	262.80	42.71	-10.66	32.05	46.00	13.95	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M1
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-7
Tester: Alan Xie

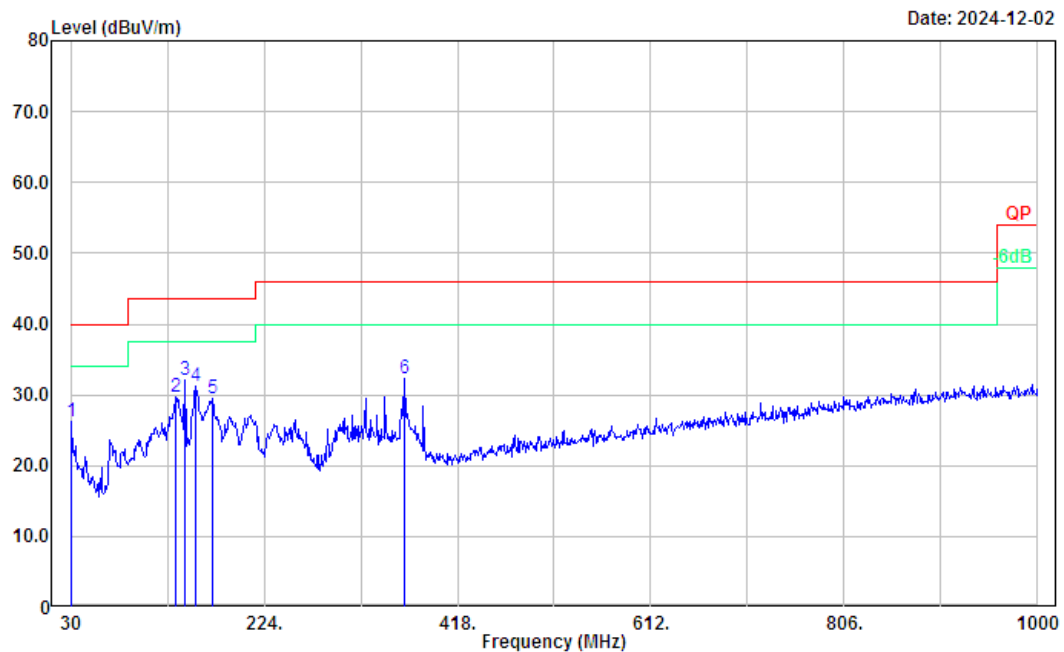


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.94	37.85	-5.03	32.82	40.00	7.18	Peak
2	39.70	41.54	-10.39	31.15	40.00	8.85	QP
3	43.58	44.25	-12.56	31.69	40.00	8.31	QP
4	48.43	48.55	-15.47	33.08	40.00	6.92	Peak
5	169.68	43.76	-11.78	31.98	43.50	11.52	Peak
6	177.44	44.36	-12.05	32.31	43.50	11.19	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBW:300kHz

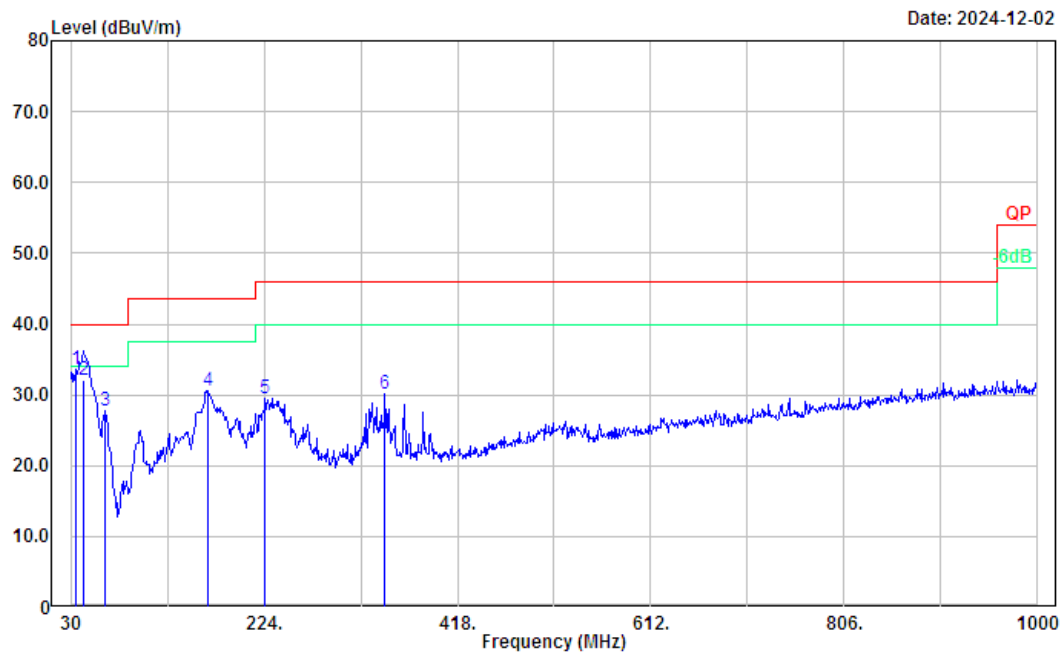
Serial No.: 2UEW-35
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	30.02	-3.71	26.31	40.00	13.69	Peak
2	134.76	40.12	-10.33	29.79	43.50	13.71	Peak
3	144.46	43.09	-11.09	32.00	43.50	11.50	Peak
4	156.10	42.65	-11.47	31.18	43.50	12.32	Peak
5	172.59	41.40	-11.88	29.52	43.50	13.98	Peak
6	364.65	39.95	-7.65	32.30	46.00	13.70	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-35
Tester: Alan Xie

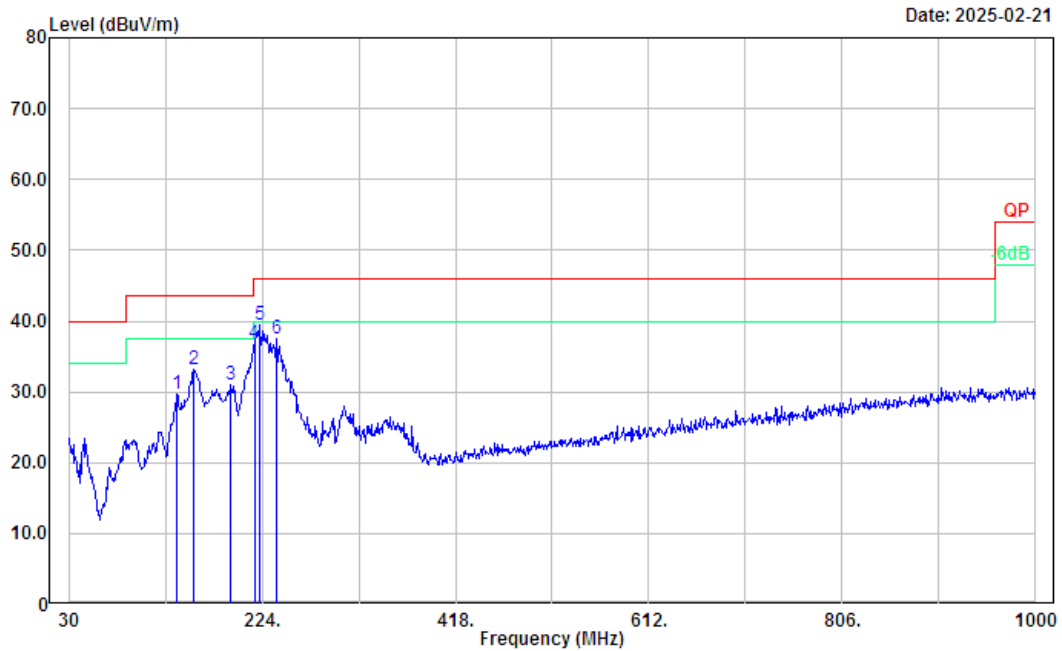


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	35.82	41.17	-7.67	33.50	40.00	6.50	Peak
2	42.61	44.14	-12.03	32.11	40.00	7.89	QP
3	64.92	44.32	-16.49	27.83	40.00	12.17	Peak
4	167.74	42.34	-11.71	30.63	43.50	12.87	Peak
5	224.97	40.60	-11.02	29.58	46.00	16.42	Peak
6	345.25	38.09	-8.04	30.05	46.00	15.95	Peak

M3:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

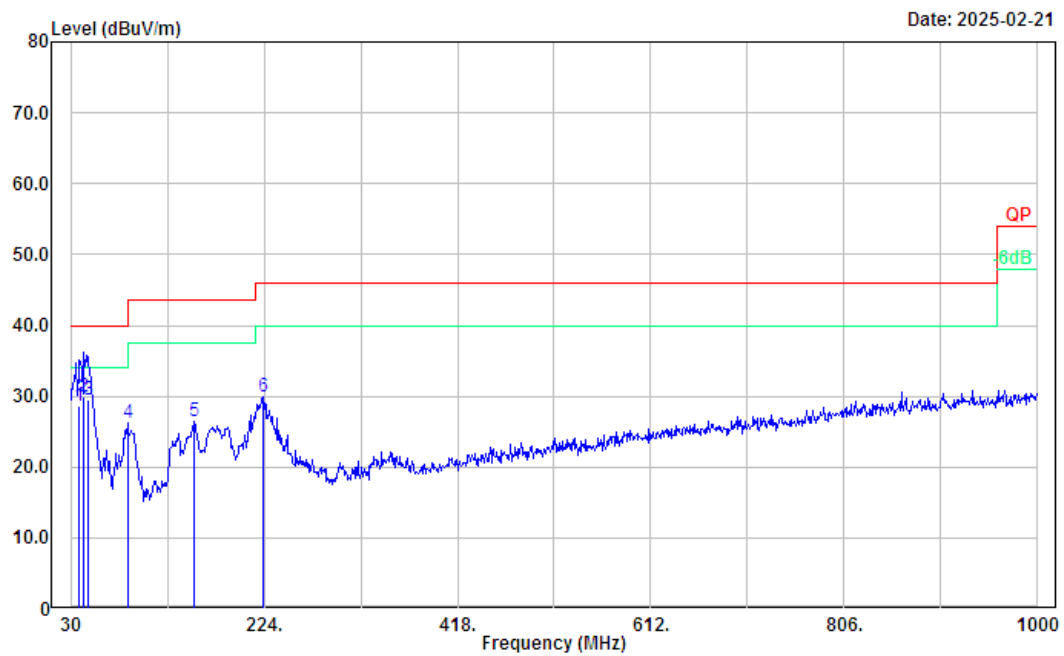
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	138.64	40.30	-10.63	29.67	43.50	13.83	Peak
2	155.13	44.72	-11.48	33.24	43.50	10.26	Peak
3	192.96	43.08	-11.99	31.09	43.50	12.41	Peak
4	216.24	47.80	-10.96	36.84	46.00	9.16	Peak
5	221.09	50.47	-10.94	39.53	46.00	6.47	Peak
6	238.55	48.72	-11.26	37.46	46.00	8.54	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.73	38.24	-9.72	28.52	40.00	11.48	QP
2	43.58	42.56	-12.56	30.00	40.00	10.00	QP
3	47.46	44.32	-14.87	29.45	40.00	10.55	QP
4	87.23	42.99	-16.70	26.29	40.00	13.71	Peak
5	153.19	37.89	-11.50	26.39	43.50	17.11	Peak
6	223.03	40.91	-10.97	29.94	46.00	16.06	Peak

2) 1-25GHz:

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/11/29-2025/2/6
Test Site:	Chamber B	Test Mode:	M1-M3
Tester:	Nat Zhou, Colin Yang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	19.7-21.1	Relative Humidity: (%)	26-41	ATM Pressure: (kPa)	101.2-102.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

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

Test Data:

Please refer to the below plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

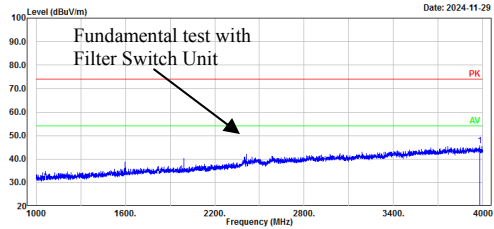
1-18GHz:

M1:

BLE 1M, Low Channel, Horizontal

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2UEW-7
Tester: Nat Zhou

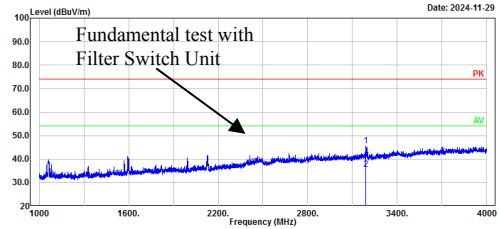


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3977.80	49.54	-3.76	45.78	74.00	28.22	Peak

BLE 1M, Low Channel, Vertical

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

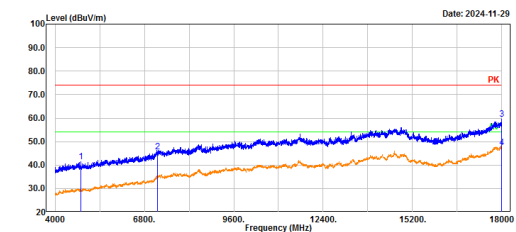
Serial No.: 2UEW-7
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3188.80	51.68	-5.94	45.74	74.00	28.26	Peak
2	3188.80	41.71	-5.94	35.77	54.00	18.23	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

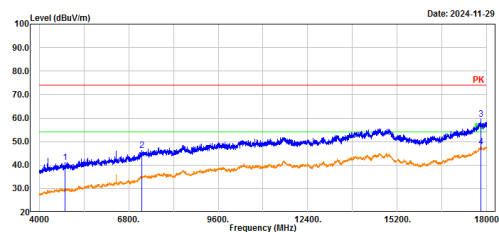
Serial No.: 2UEW-7
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.00	50.04	-8.62	41.42	74.00	32.58	Peak
2	7206.00	49.48	-3.81	45.67	74.00	28.33	Peak
3	17991.60	48.05	11.35	59.40	74.00	14.60	Peak
4	17991.60	36.08	11.35	47.43	54.00	6.57	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2UEW-7
Tester: Nat Zhou

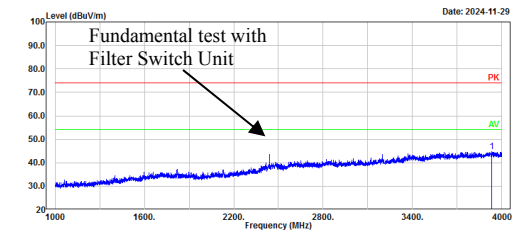


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.00	49.70	-8.62	41.08	74.00	32.92	Peak
2	7206.00	49.94	-3.81	46.13	74.00	27.87	Peak
3	17806.80	49.40	10.09	59.49	74.00	14.51	Peak
4	17806.80	37.70	10.09	47.79	54.00	6.21	Average

BLE 1M, Middle Channel, Horizontal

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-7
Tester: Nat Zhou

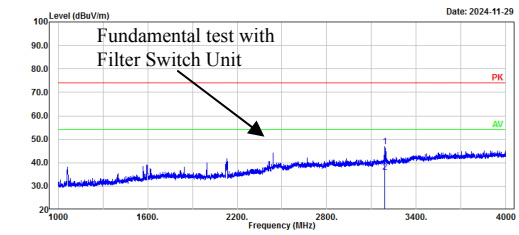


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3931.00	48.45	-3.77	44.68	74.00	29.32	Peak

BLE 1M, Middle Channel, Vertical

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz

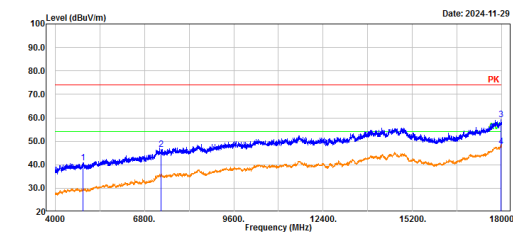
Serial No.: 2UEW-7
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3189.40	52.86	-5.93	46.93	74.00	27.07	Peak
2	3189.40	42.05	-5.93	36.12	54.00	17.88	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

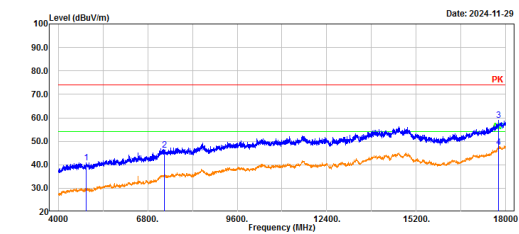
Serial No.: 2UEW-7
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4880.00	49.30	-8.48	40.82	74.00	33.18	Peak
2	7320.00	49.79	-3.21	46.58	74.00	27.42	Peak
3	17777.60	47.82	11.28	59.10	74.00	14.90	Peak
4	17977.60	36.40	11.28	47.68	54.00	6.32	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2UEW-7
Tester: Nat Zhou



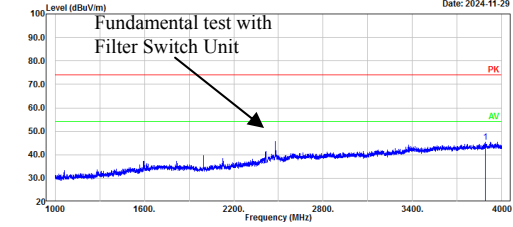
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4880.00	49.26	-8.48	40.78	74.00	33.22	Peak
2	7320.00	49.54	-3.21	46.33	74.00	27.67	Peak
3	17777.60	49.33	9.63	58.96	74.00	15.04	Peak
4	17777.60	37.74	9.63	47.37	54.00	6.63	Average

BLE 1M, High Channel, Horizontal

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M High Channel 2400MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-7
Tester: Nat Zhou

Date: 2024-11-29



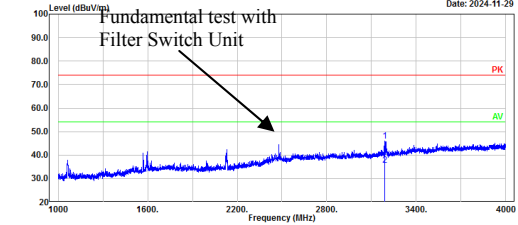
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3898.20	49.13	-3.75	45.38	74.00	28.62	Peak

BLE 1M, High Channel, Vertical

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M High Channel 2400MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-7
Tester: Nat Zhou

Date: 2024-11-29

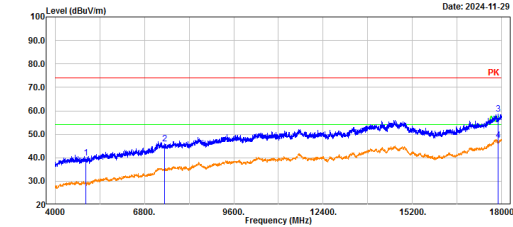


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3198.00	51.82	-5.93	45.89	74.00	28.11	Peak
2	3198.00	41.56	-5.93	35.63	54.00	18.37	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M High Channel 2400MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2UEW-7
Tester: Nat Zhou

Date: 2024-11-29

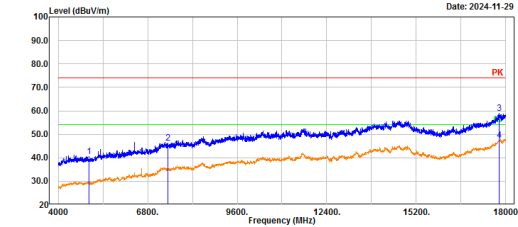


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960.00	48.42	-8.48	39.94	74.00	34.06	Peak
2	7440.00	48.44	-2.62	45.82	74.00	28.18	Peak
3	17885.20	48.12	10.66	58.78	74.00	15.22	Peak
4	17885.20	36.83	10.66	47.49	54.00	6.51	Average

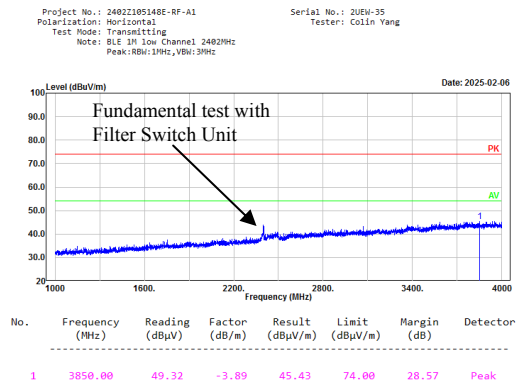
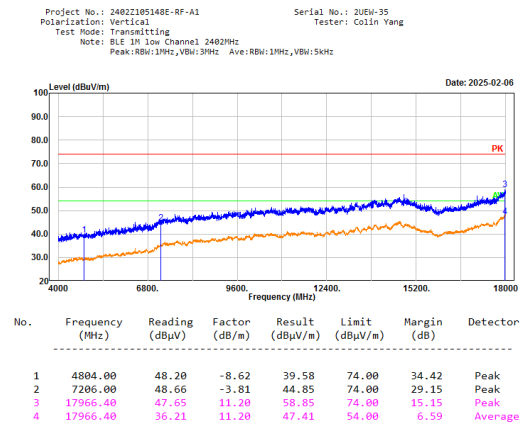
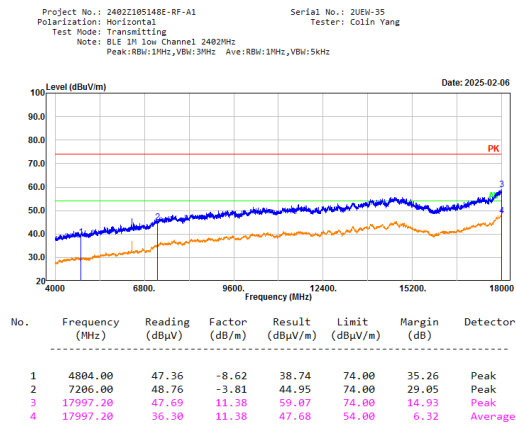
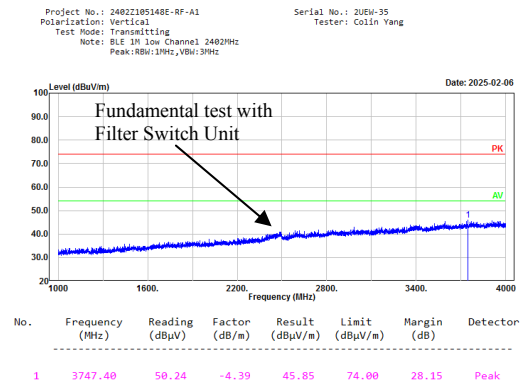
Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M High Channel 2400MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2UEW-7
Tester: Nat Zhou

Date: 2024-11-29



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960.00	48.92	-8.48	40.44	74.00	33.56	Peak
2	7440.00	48.93	-2.62	46.31	74.00	27.69	Peak
3	17801.20	48.97	10.04	59.01	74.00	14.99	Peak
4	17801.20	37.52	10.04	47.56	54.00	6.44	Average

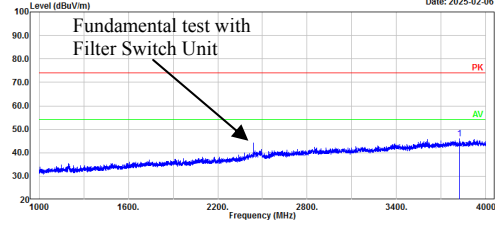
**Spot check:
M2:****BLE 1M, Low Channel, Horizontal****BLE 1M, Low Channel, Vertical**

BLE 1M, Middle Channel, Horizontal

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-35
Tester: Colin Yang

Date: 2025-02-06



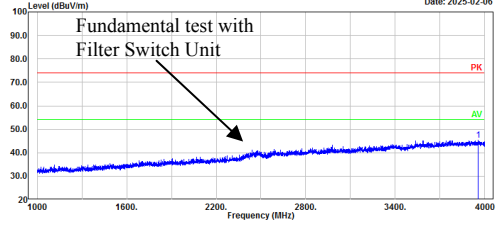
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3824.20	50.15	-4.09	46.06	74.00	27.94	Peak

BLE 1M, Middle Channel, Vertical

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-35
Tester: Colin Yang

Date: 2025-02-06

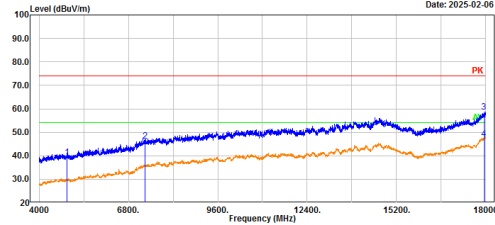


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3955.60	48.99	-3.66	45.33	74.00	28.67	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2UEW-35
Tester: Colin Yang

Date: 2025-02-06

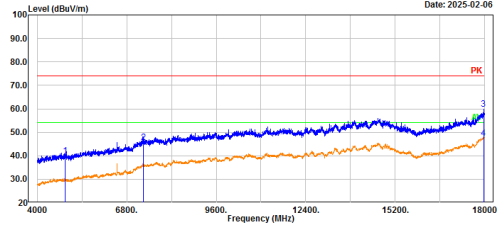


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4880.00	47.94	-8.48	39.46	74.00	34.54	Peak
2	7320.00	49.34	-3.21	46.13	74.00	27.87	Peak
3	17935.60	47.57	10.99	58.56	74.00	15.44	Peak
4	17935.60	36.22	10.99	47.21	54.00	6.79	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

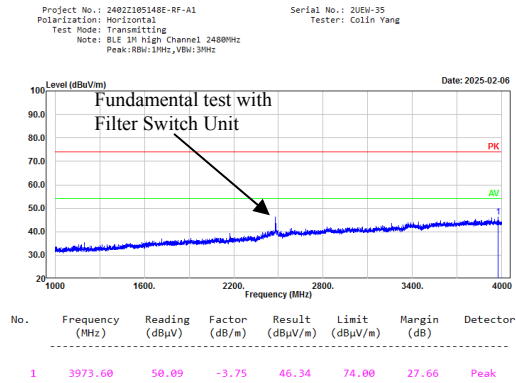
Serial No.: 2UEW-35
Tester: Colin Yang

Date: 2025-02-06

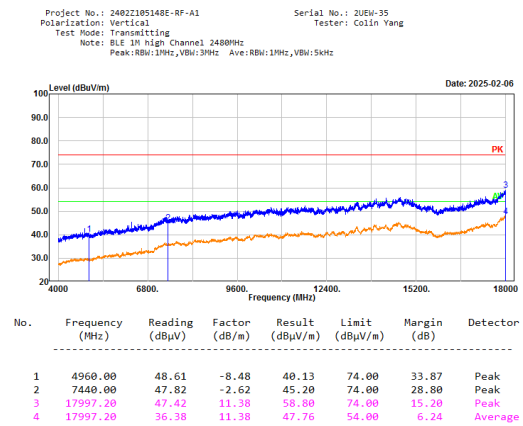
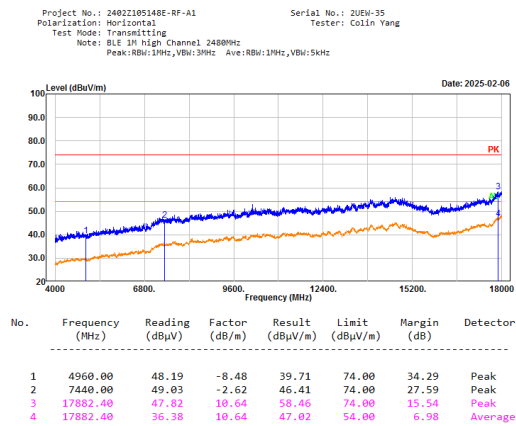
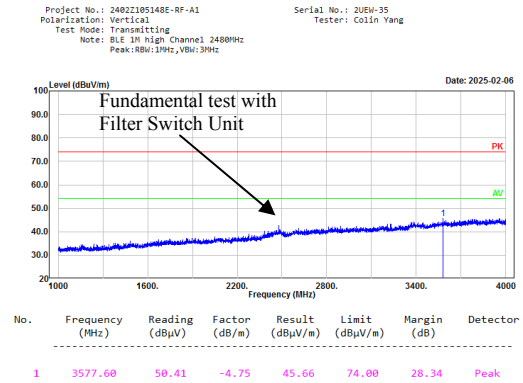


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4880.00	48.31	-8.48	39.83	74.00	34.17	Peak
2	7320.00	48.83	-3.21	45.62	74.00	28.38	Peak
3	17935.60	48.79	11.14	59.93	74.00	14.07	Peak
4	17935.60	36.29	11.14	47.43	54.00	6.57	Average

BLE 1M, High Channel, Horizontal



BLE 1M, High Channel, Vertical



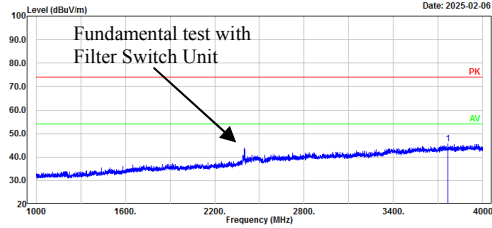
M3:

BLE 1M, Low Channel, Horizontal

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2UEW-36
Tester: Colin Yang

Date: 2025-02-06



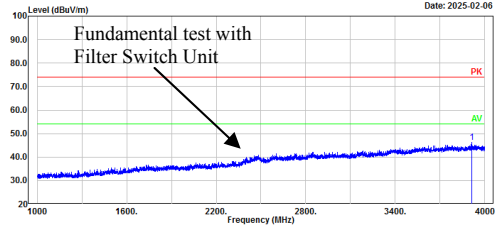
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3765.40	50.05	-4.38	45.67	74.00	28.33	Peak

BLE 1M, Low Channel, Vertical

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2UEW-36
Tester: Colin Yang

Date: 2025-02-06

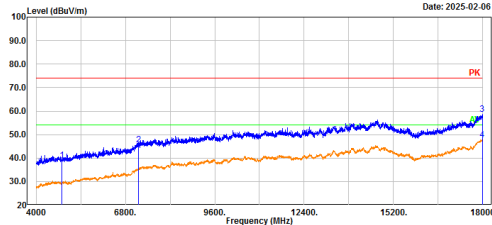


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3910.60	49.87	-3.70	46.17	74.00	27.83	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2UEW-36
Tester: Colin Yang

Date: 2025-02-06

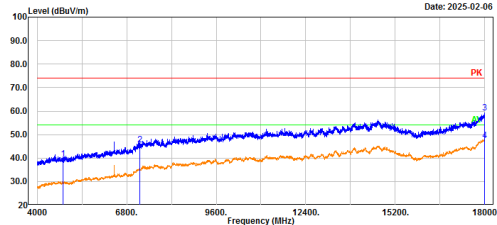


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.00	47.77	-8.62	39.15	74.00	34.85	Peak
2	7206.00	49.50	-3.81	45.69	74.00	28.31	Peak
3	17980.40	47.39	11.30	58.69	74.00	15.31	Peak
4	17980.40	36.37	11.30	47.67	54.00	6.33	Average

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M Low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz

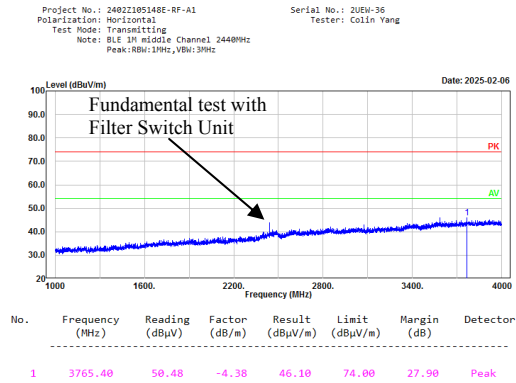
Serial No.: 2UEW-36
Tester: Colin Yang

Date: 2025-02-06

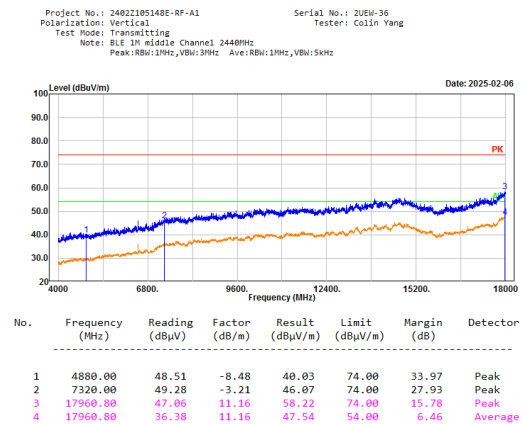
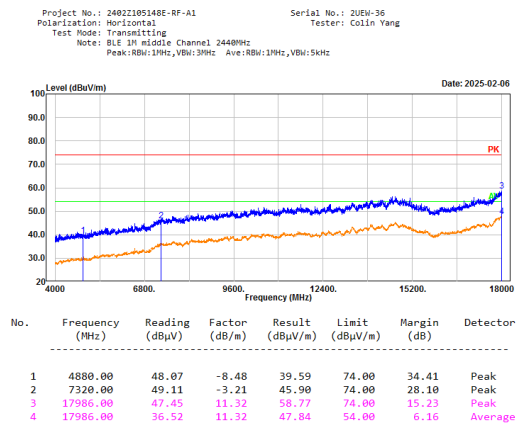
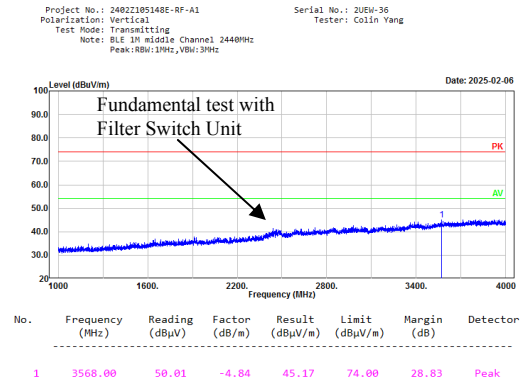


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.00	48.09	-8.62	39.47	74.00	34.53	Peak
2	7206.00	49.47	-3.81	45.66	74.00	28.34	Peak
3	17980.00	47.86	11.32	59.18	74.00	14.82	Peak
4	17980.00	36.23	11.32	47.55	54.00	6.45	Average

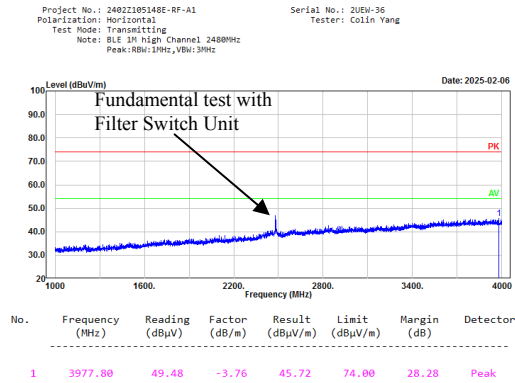
BLE 1M, Middle Channel, Horizontal



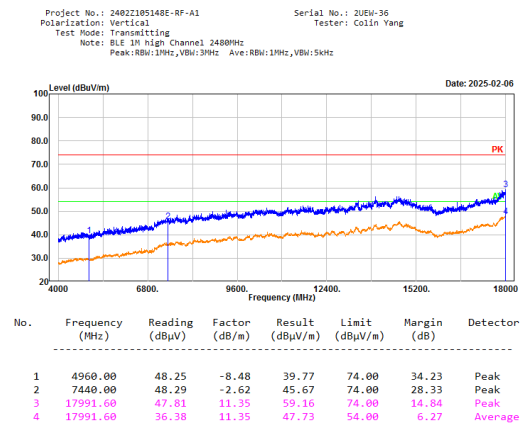
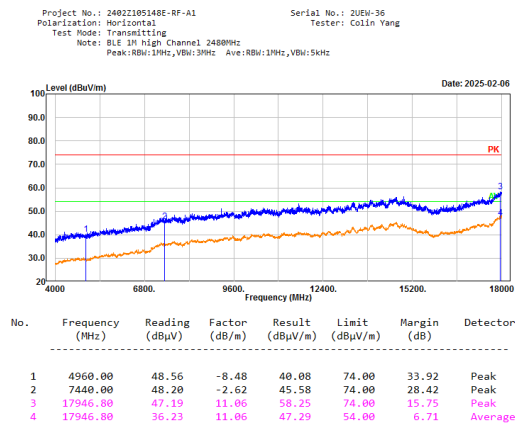
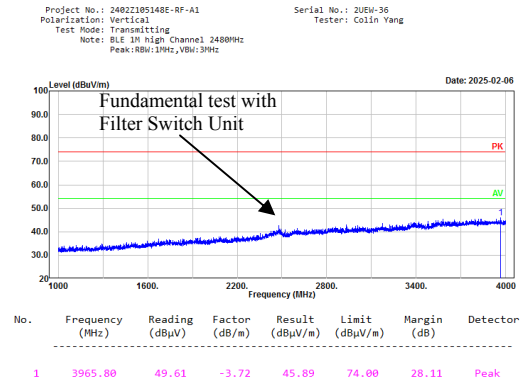
BLE 1M, Middle Channel, Vertical



BLE 1M, High Channel, Horizontal



BLE 1M, High Channel, Vertical



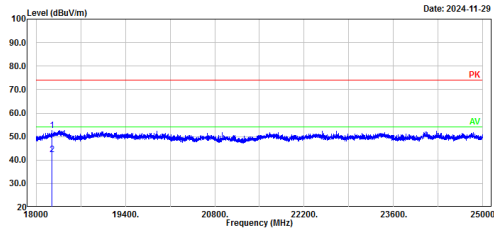
18-25GHz:

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

M1:**BLE 1M, Low Channel, Horizontal**

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: BLE 1M low Channel 2402MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-7
Tester: Nat Zhou

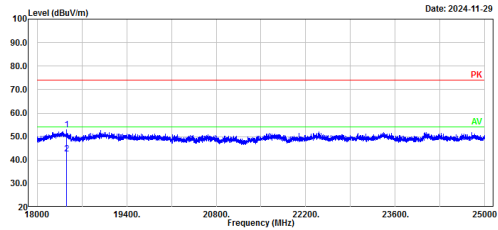


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18245.00	45.92	6.72	52.64	74.00	21.36	Peak
2	18245.00	35.51	6.72	42.23	54.00	11.77	Average

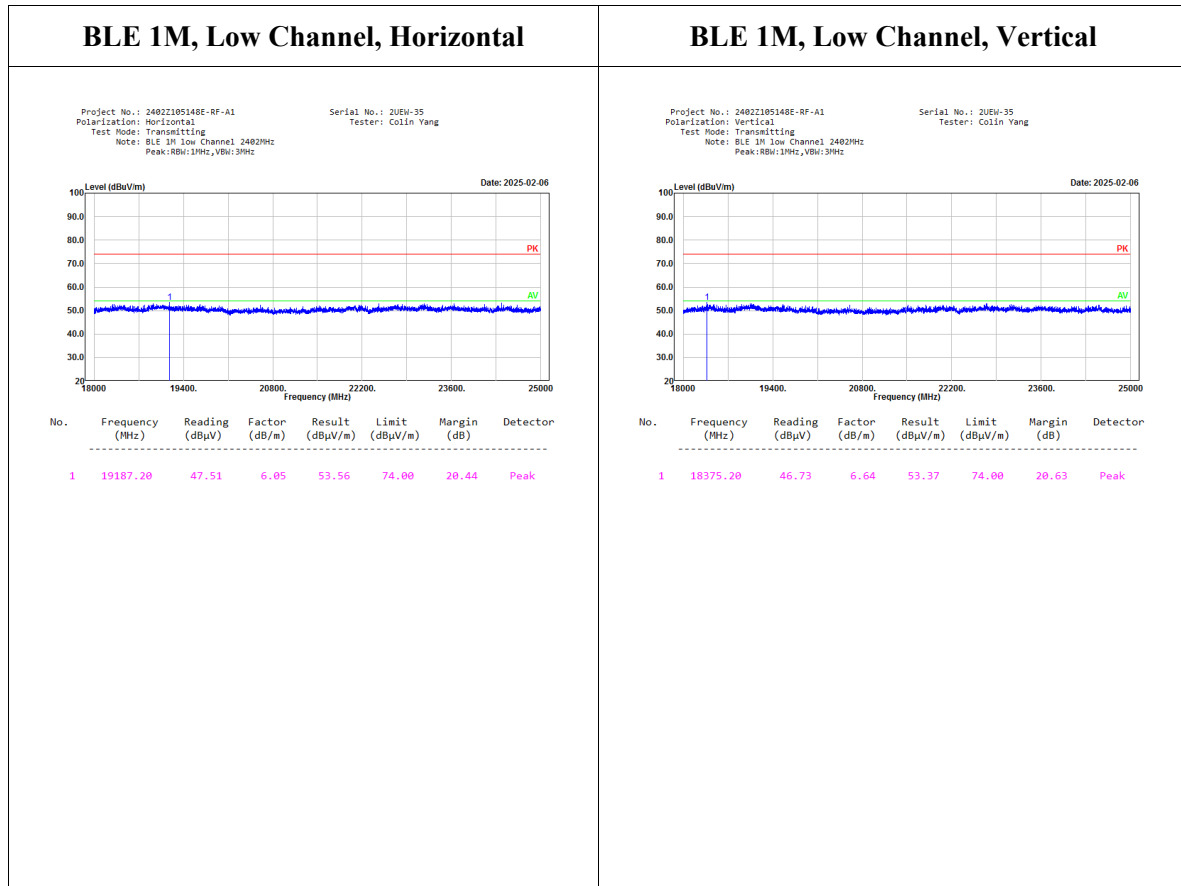
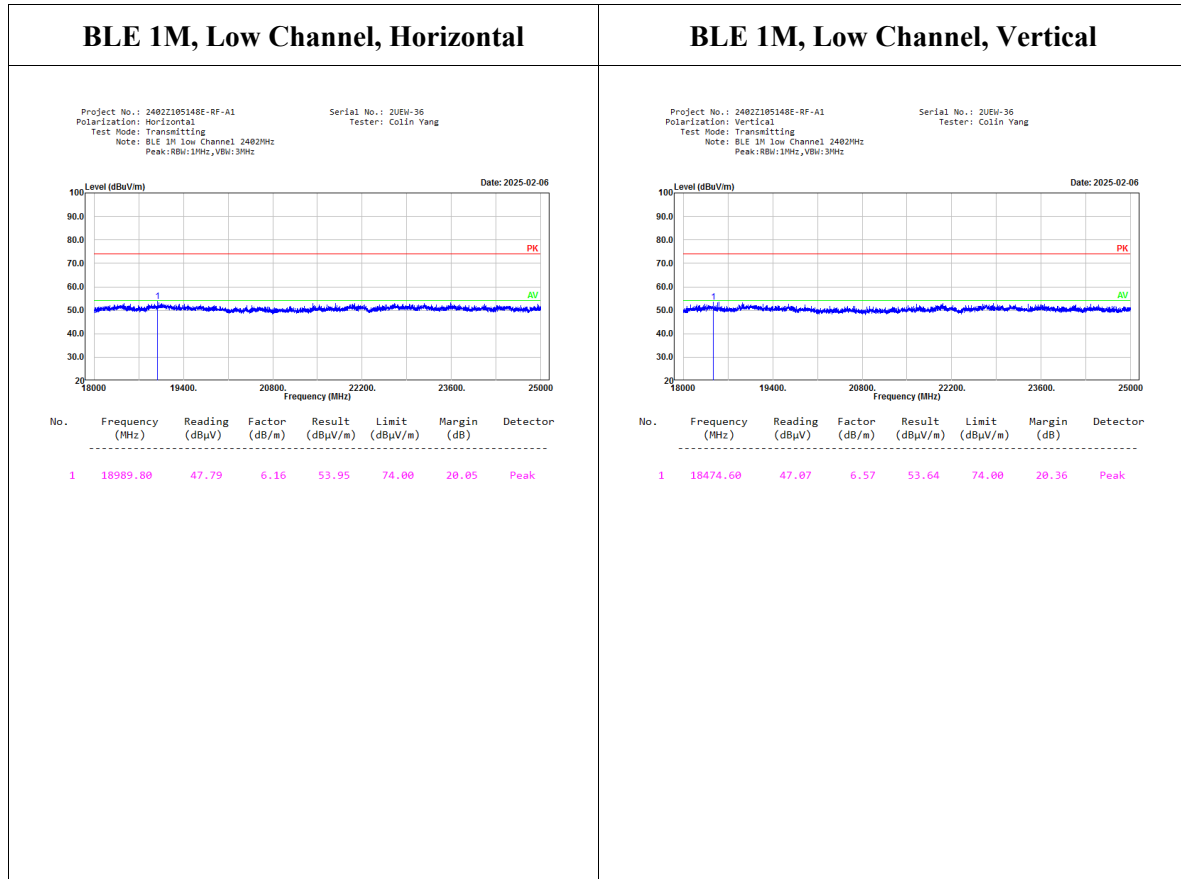
BLE 1M, Low Channel, Vertical

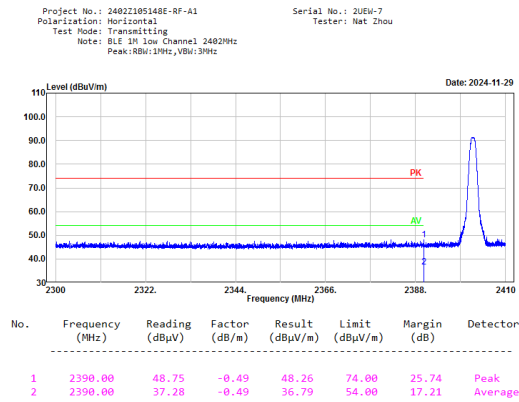
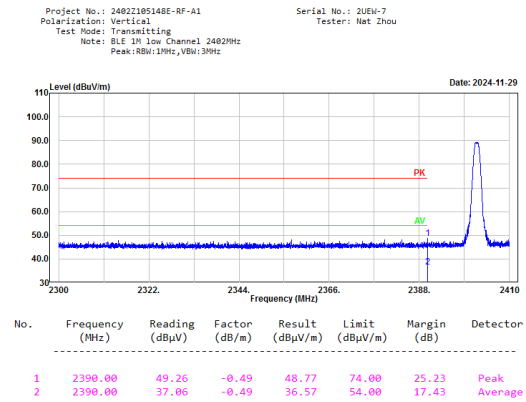
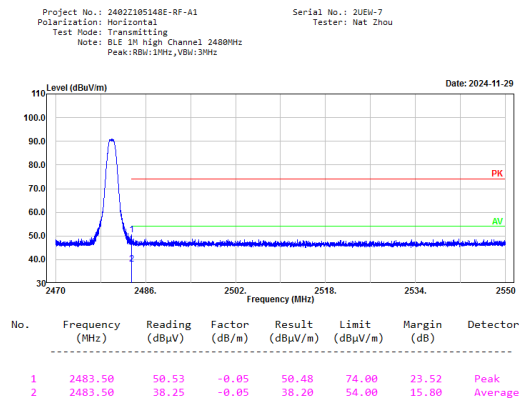
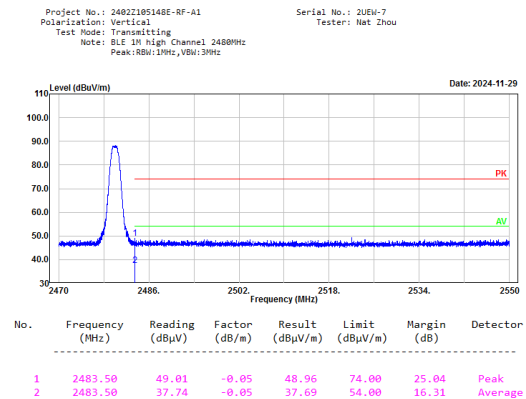
Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: BLE 1M low Channel 2402MHz
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 2UEW-7
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18460.60	46.18	6.58	52.76	74.00	21.24	Peak
2	18460.60	36.03	6.58	42.61	54.00	11.39	Average

**Spot check:
M2:****M3:**

Bandedge:**M1:****BLE 1M, Low Channel, Bandedge,
Horizontal****BLE 1M, Low Channel, Bandedge,
Vertical****BLE 1M, High Channel, Bandedge,
Horizontal****BLE 1M, High Channel, Bandedge,
Vertical**

5.3 Spot Check With Maximum Conducted Output Power

Test Information:

Serial No.:	2UEW-21, 2UEW-22, 2UEW-24	Test Date:	2024/12/19~2025/02/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	20.8~23.8	Relative Humidity: (%)	33~55	ATM Pressure: (kPa)	101.1~102.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM488	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04

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

Test Data:

Configuration5#

Channel	Result (dBm)	Limit (dBm)	Verdict
BLE 1Mbps Low	7.32	30.00	Pass
BLE 1Mbps Middle	6.25	30.00	Pass
BLE 1Mbps High	5.26	30.00	Pass

Configuration4#

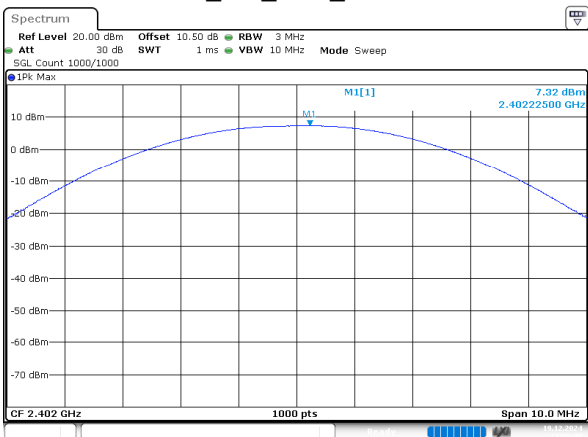
Channel	Result (dBm)	Limit (dBm)	Verdict
BLE 1Mbps Low	6.99	30.00	Pass
BLE 1Mbps Middle	6.28	30.00	Pass
BLE 1Mbps High	5.38	30.00	Pass

Configuration3#

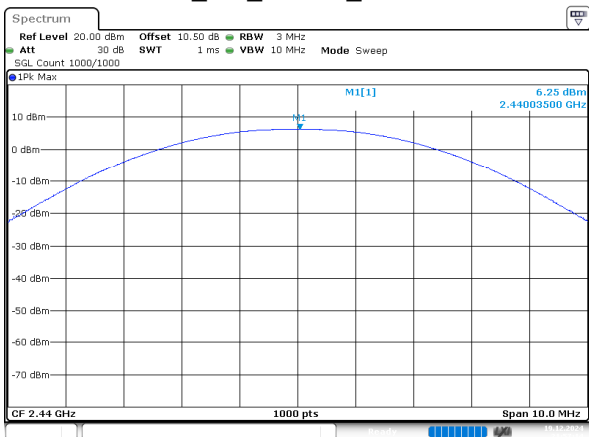
Channel	Result (dBm)	Limit (dBm)	Verdict
BLE 1Mbps Low	7.28	30.00	Pass
BLE 1Mbps Middle	5.93	30.00	Pass
BLE 1Mbps High	5.19	30.00	Pass

Configuration5#

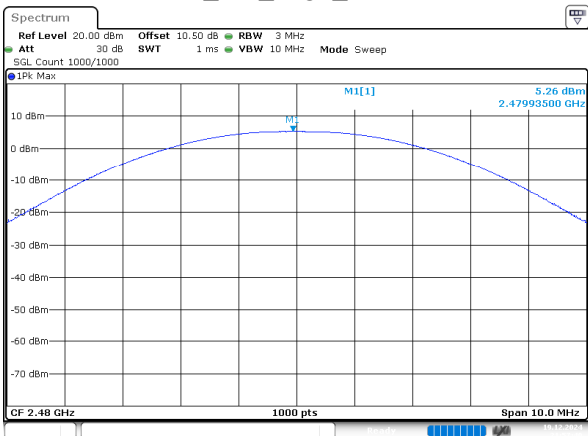
BLE_1M_Low_Channel



BLE_1M_Middle_Channel

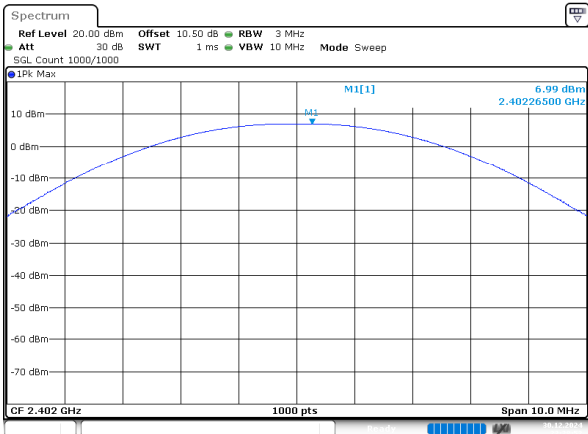


BLE_1M_High_Channel

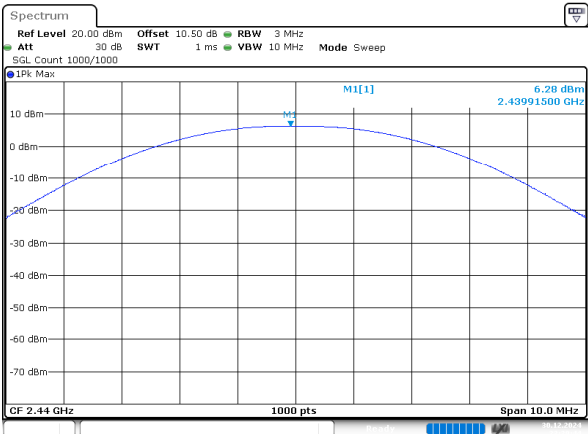


Configuration4#

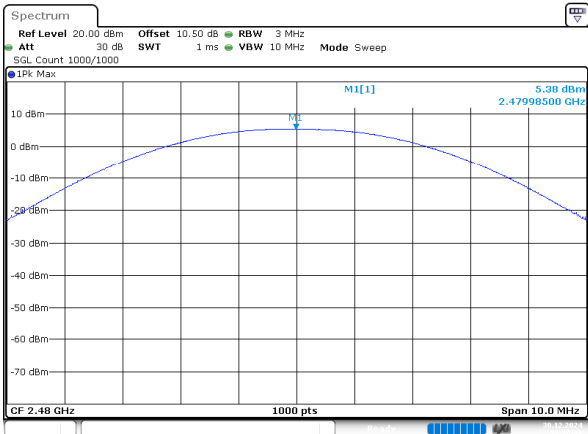
BLE_1M_Low_Channel



BLE_1M_Middle_Channel

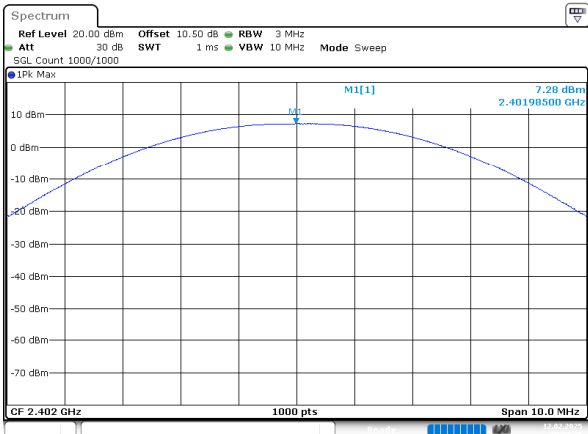


BLE_1M_High_Channel



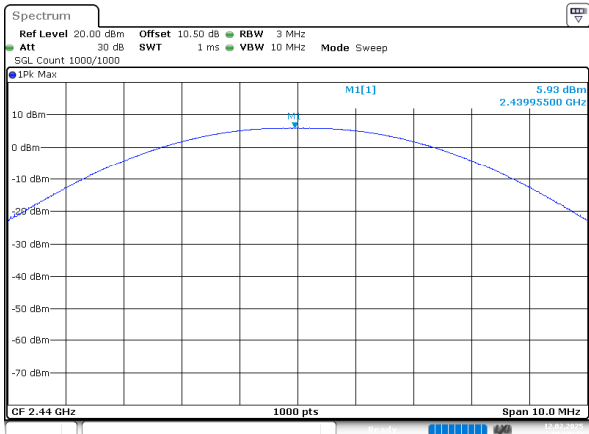
Configuration3#

BLE_1M_Low_Channel



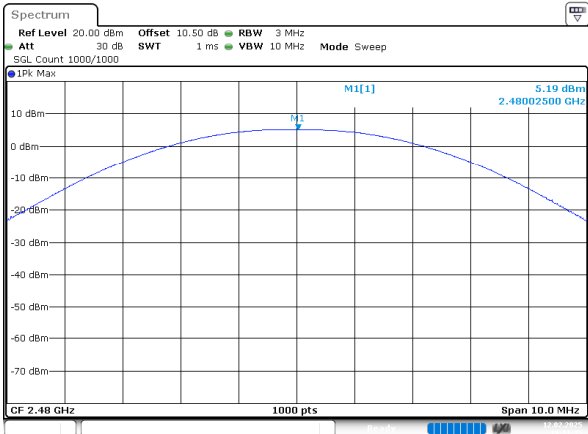
ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 12.FEB.2025 19:08:26

BLE_1M_Middle_Channel



ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 12.FEB.2025 19:09:32

BLE_1M_High_Channel



ProjectNo.:2402Z105148E-RF-A1 Tester:Tower Qing
Date: 12.FEB.2025 19:11:35

Note:
The Spot Check data were similar to the original data.

5.4 Duty Cycle

Test Information:

Serial No.:	2UEW-21	Test Date:	2025/07/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	27.2	Relative Humidity: (%)	67	ATM Pressure: (kPa)	99.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
R&S	Coaxial Attenuator	10dB	F-08-EM512	2025/06/13	2026/06/12

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

Test Data:

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps Middle	0.390	0.626	62.30	2564	3

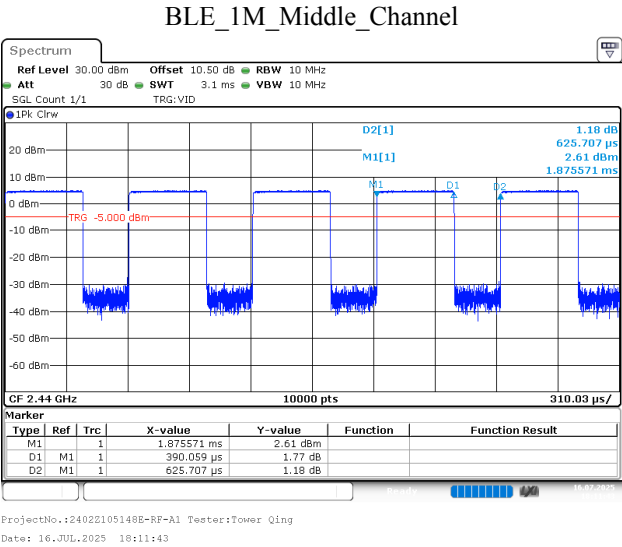


EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402Z105148EA1-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z105148EA1-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402Z105148E-RF-00BA1-TSP TEST SETUP PHOTOGRAPHS.

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