NVLAP TESTING
NVLAP LAB CODE 600341-0

BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**FJ Dynamics Technology Academy (Changzhou)Co., Ltd. Shenzhen Branch**
Address:	**Room 401, Building 2, Nangang Second Industrial Park, Nanshan District, Shenzhen, China**
Product Name:	**FJDynamics AT2 Max Auto Steer System**
FCC ID:	**2BLLH-AT2MAX**
Standard(s):	**47 CFR Part 15, Subpart C (15.247) ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02**
Report Number:	**2402A108252E-RF-00A**
Report Date:	**2025/1/22**

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

Reviewed By: **Pedro Yun**	**Approved By:** **Gavin Xu**
Title: **Project Engineer**	Title: **RF Supervisor**

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402A108252E-RF-00A	Original Report	2025/1/22

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	FJDynamics AT2 Max Auto Steer System
Trade Name	FJDynamics
EUT Model:	AT2 Max
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	5.18dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 9-36V, Typical Voltage: DC 12V
Serial Number:	2VH2-1(for Radiated Emissions Test) 2VH2-2(for RF Conducted Test)
EUT Received Date:	2024/12/3
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Control Terminal	FJDynamics	AT2 Max	Power Supply: 9~36VDC
GNSS Receiver	FJDynamics	/	Operating Voltage: 9~36VDC
Electric Steering Wheel	FJDynamics	/	Power Supply: 12VDC or 24VDC
Power Wiring Harness (With Switch Key)	FJDynamics	/	Unshielded without ferrite, 4.5Meter
Main Wiring Harness	FJDynamics	/	Unshielded without ferrite, 2.0Meter
Spare Main Wiring Harness	FJDynamics	/	Unshielded without ferrite, 2.5Meter
GNSS Receiver Wiring Harness	FJDynamics	/	Unshielded without ferrite, 4.0Meter
Attitude Sensor (With Wiring Harness)	FJDynamics	/	Unshielded without ferrite, 3.0Meter
Attitude Sensor Extension Wiring Harness	FJDynamics	/	Unshielded without ferrite, 2.0Meter
Radio Antenna (With Coaxial Harness)	FJDynamics	/	Unshielded without ferrite, 4.0Meter

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	2.4-2.5GHz	4.3dBi
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

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	Minimum 6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.203	Antenna Requirement	Compliant
Not Applicable: The EUT is a vehicle-mounted device, not applicable for this test item. Note 1: For Radiated Spurious Emissions 9kHz~ 1GHz and 18GHz~25GHz, the maximum output power mode and channel was tested.		

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 frequency in boldface were tested.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer.
The EUT configuration as below:

EUT Exercise Software:	ADB.exe		
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 1M	Default	Default	Default
BLE 2M	Default	Default	Default

3.3 Support Equipment List and Details

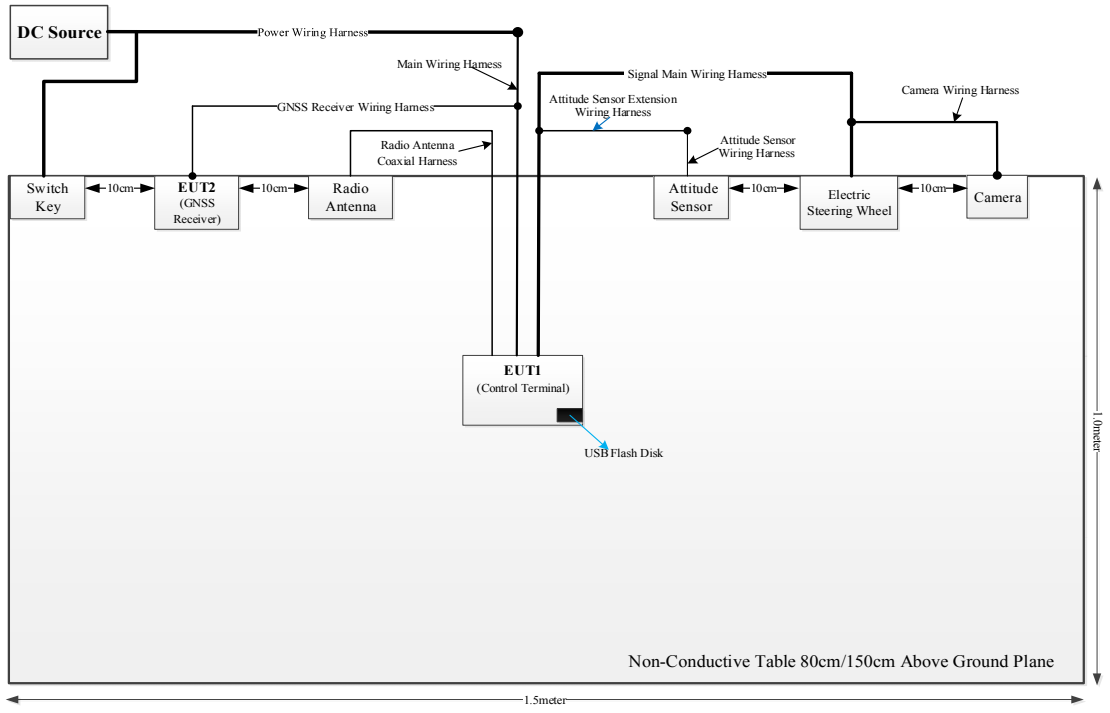
Manufacturer	Description	Model	Serial Number
DK	DC Source	DK-60V50A	T-08-EE140
SANDisk	USB Flash Disk	16G	BL201026115 B
FJDynamics	Wired Camera	FJ-WC01	Unknown

3.4 Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
Power Wiring Harness (With Switch Key)	No	No	4.5	DC Source	Main Wiring Harness
Main Wiring Harness	No	No	2	Main Wiring Harness	EUT1 (Control Terminal)
Main Wiring Harness	No	No	2.0	Main wiring Harness	GNSS Receiver Wiring Harness
GNSS Receiver Wiring Harness	No	No	4	GNSS Receiver Wiring Harness	EUT2 (GNSS Receiver)
Spare Main Wiring Harness	No	No	2.5	EUT1 (Control Terminal)	Electric Steering Wheel Wiring Harness / Attitude Sensor Extension Wiring Harness / Camera Wiring Harness / Electric Steering Wheel
Attitude Sensor Extension Wiring Harness	No	No	2	Spare Main Wiring Harness	Attitude Sensor Wiring Harness
Attitude Sensor Wiring Harness	No	No	3	Attitude Sensor Extension Wiring Harness	Attitude Sensor
Camera Wiring Harness	No	No	2	Spare Main Wiring Harness	Wired Camera
Radio Antenna Coaxial Harness	Yes	No	4.5	EUT1 (Control Terminal)	Radio Antenna

3.5 Block Diagram of Test Setup

Spurious Emissions:



3.6 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.

3.7 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℃
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 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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:

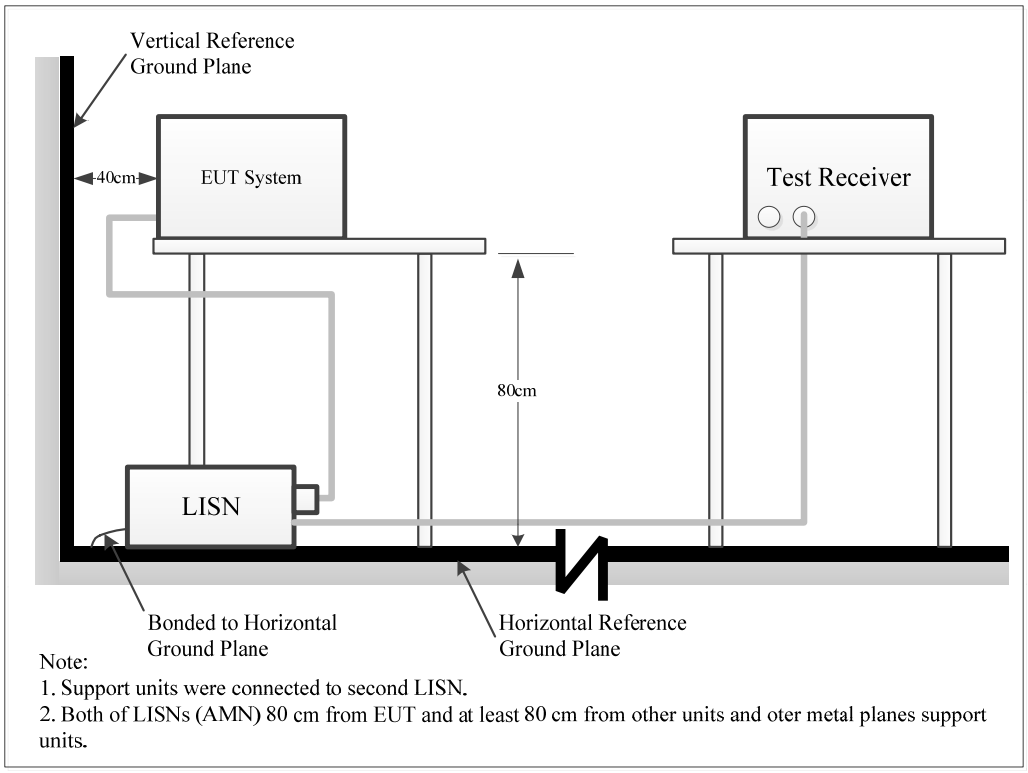
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/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



Note:
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at least 80 cm from other units and oter metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 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

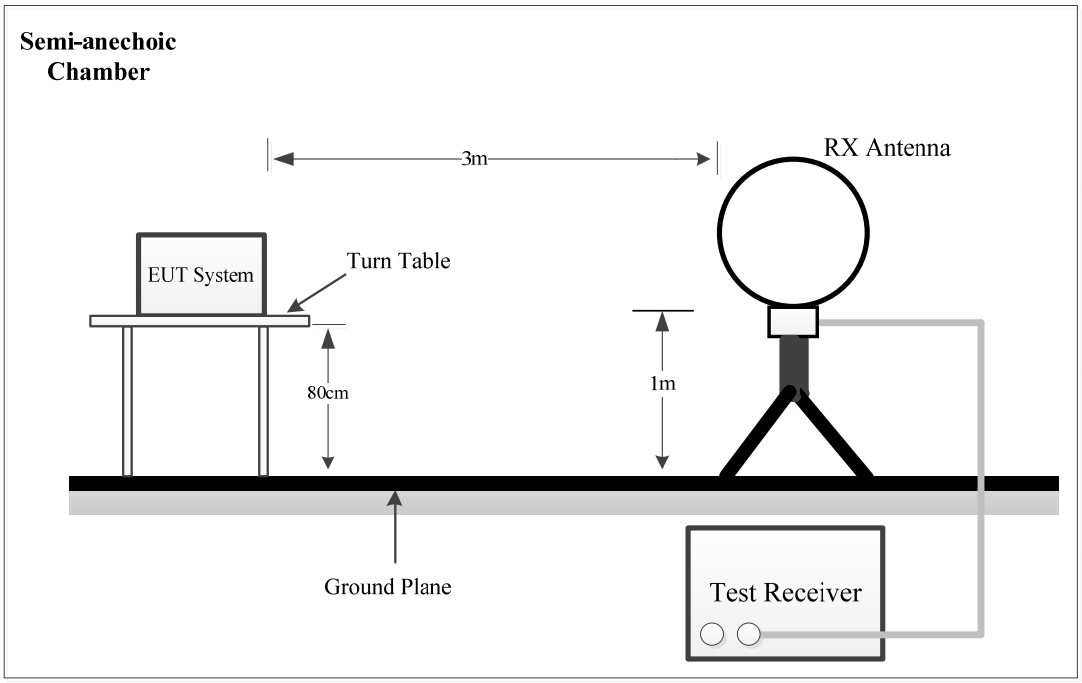
4.2.1 Applicable Standard

FCC §15.247 (d);

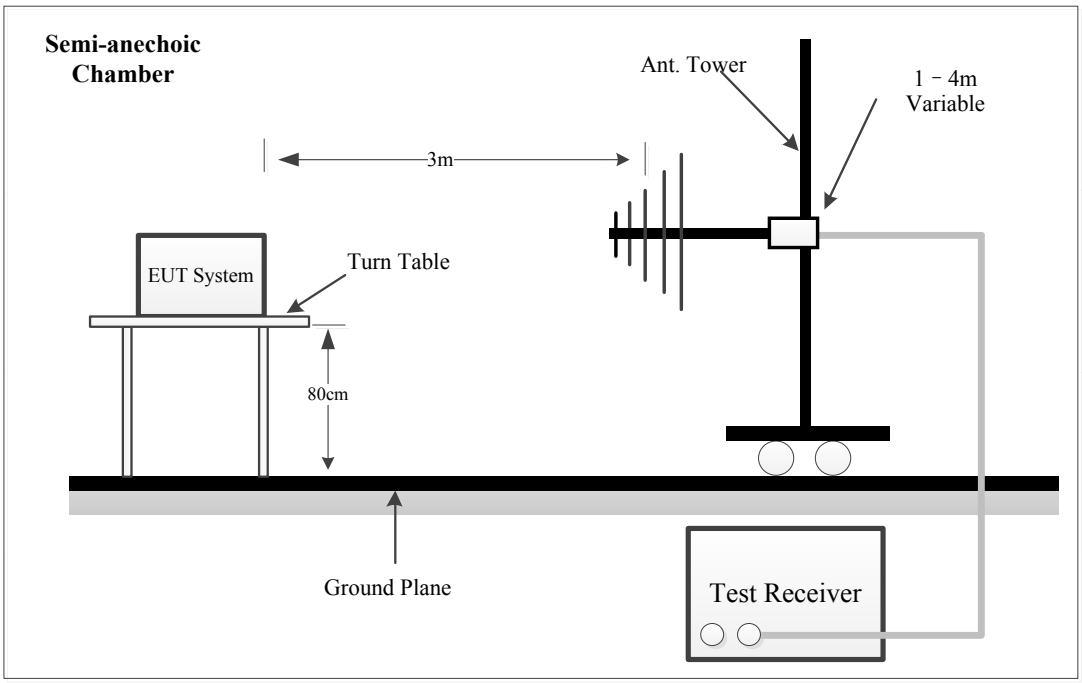
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

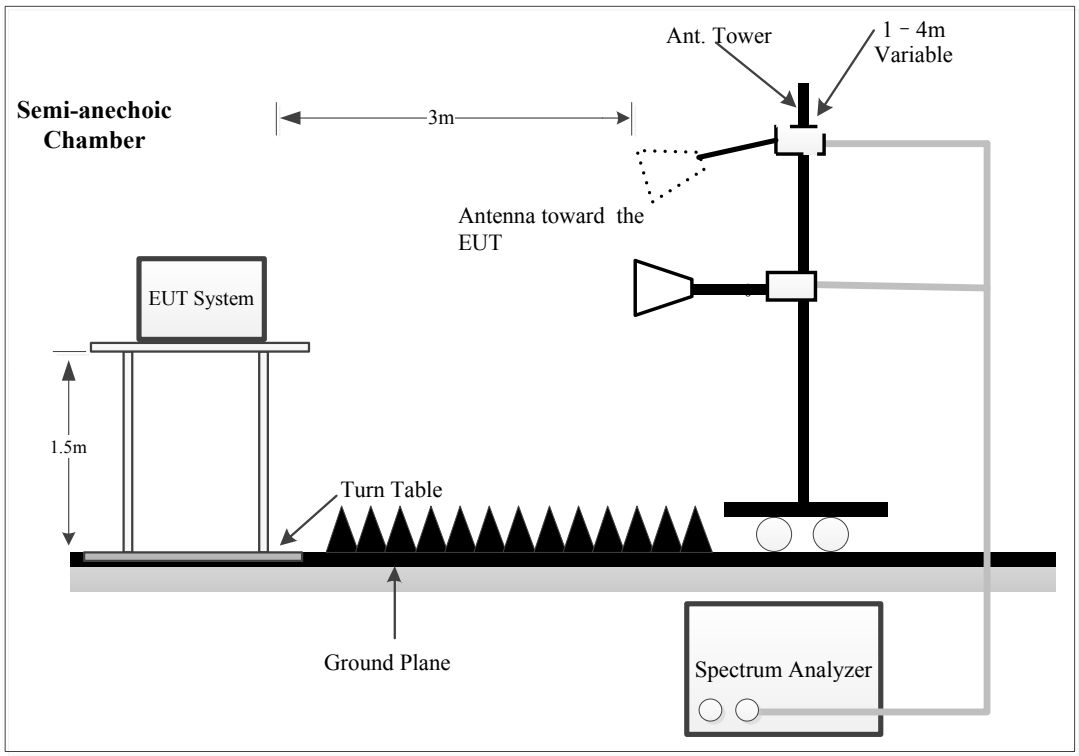
9kHz-30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. 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.

The spacing between the peripherals was 10cm.

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

Above 1GHz:
Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	1/T, not less than 5kHz	PK

Final measurement for emission identified during the pre-scan:

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

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

The basic equation is as follows:

Result = Reading + Factor
Factor= Antenna Factor + Cable Loss- 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:

Margin = Limit – Result

4.2.6 Test Result

Please refer to section 5.2.

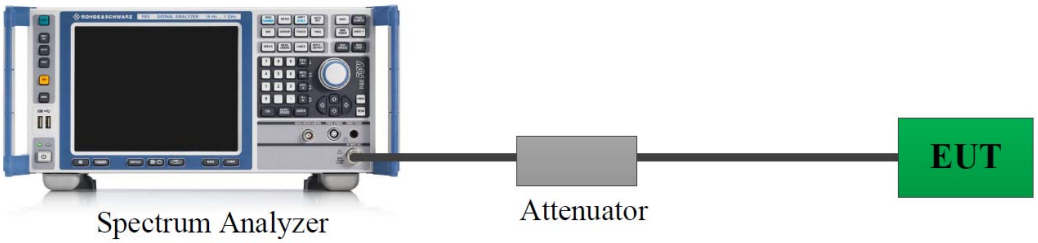
4.3 Minimum 6 dB Bandwidth

4.3.1 Applicable Standard

FCC §15.247 (a)(2)

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

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 C63.10-2020 Section 11.8

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

4.3.4 Test Result

Please refer to section 5.3.

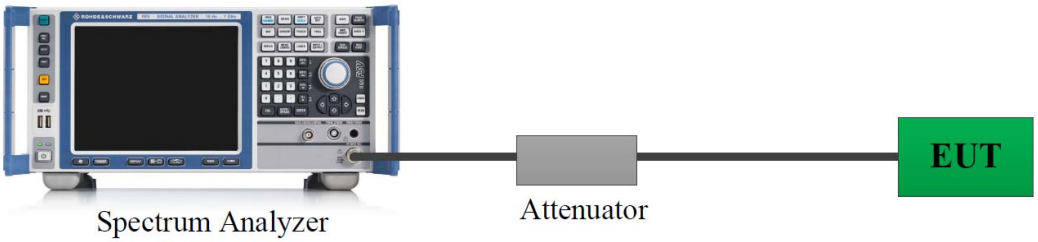
4.4 Maximum Conducted Output Power

4.4.1 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.

4.4.2 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.

4.4.3 Test Procedure

According to ANSI C63.10-2020 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:
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = No faster than coupled (auto) time.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

4.4.4 Test Result

Please refer to section 5.4.

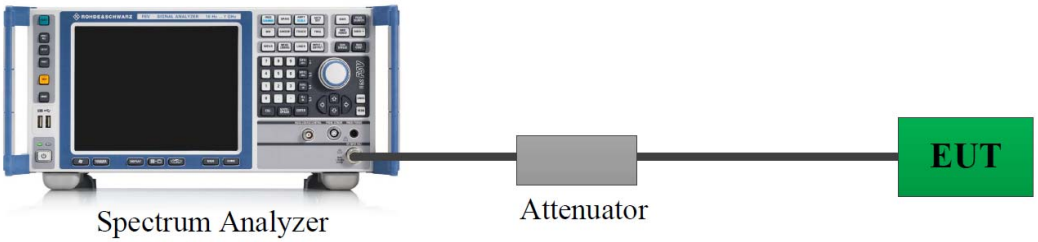
4.5 Maximum power spectral density

4.5.1 Applicable Standard

FCC §15.247 (e)

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.

4.5.2 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.

4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

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

4.5.4 Test Result

Please refer to section 5.5.

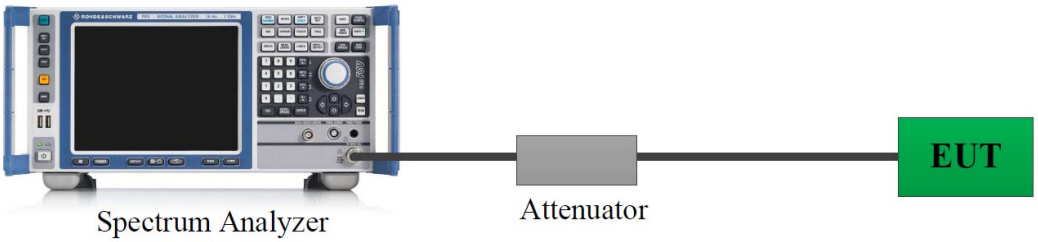
4.6 100 kHz Bandwidth of Frequency Band Edge

4.6.1 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)).

4.6.2 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.

4.6.3 Test Procedure

According to ANSI C63.10-2020 Section 11.11

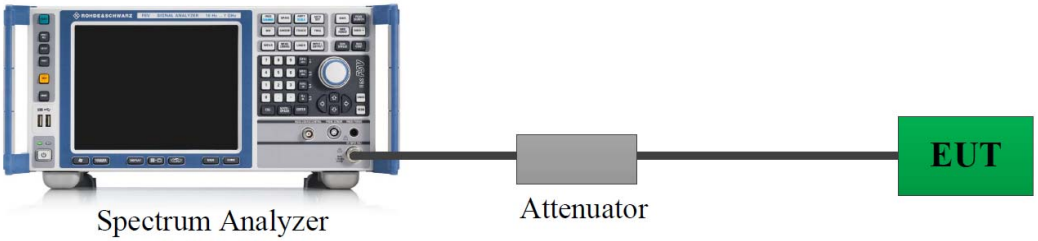
a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = No faster than coupled (auto) time.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function 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.

4.6.4 Test Result

Please refer to section 5.6.

4.7 Duty Cycle

4.7.1 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.

4.7.2 Test Procedure

According to ANSI C63.10-2020 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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

4.7.3 Judgment

Report only, please refer to section 5.7.

4.8 Antenna Requirement

4.8.1 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.

4.8.2 Judgment

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

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Not Applicable

5.2 Radiation Spurious Emissions

1)9kHz - 1GHz

Serial Number:	2VH2-1	Test Date:	2024/12/19
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Jayce Wang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	20.9	Relative Humidity: (%)	30	ATM Pressure: (kPa)	102.5

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

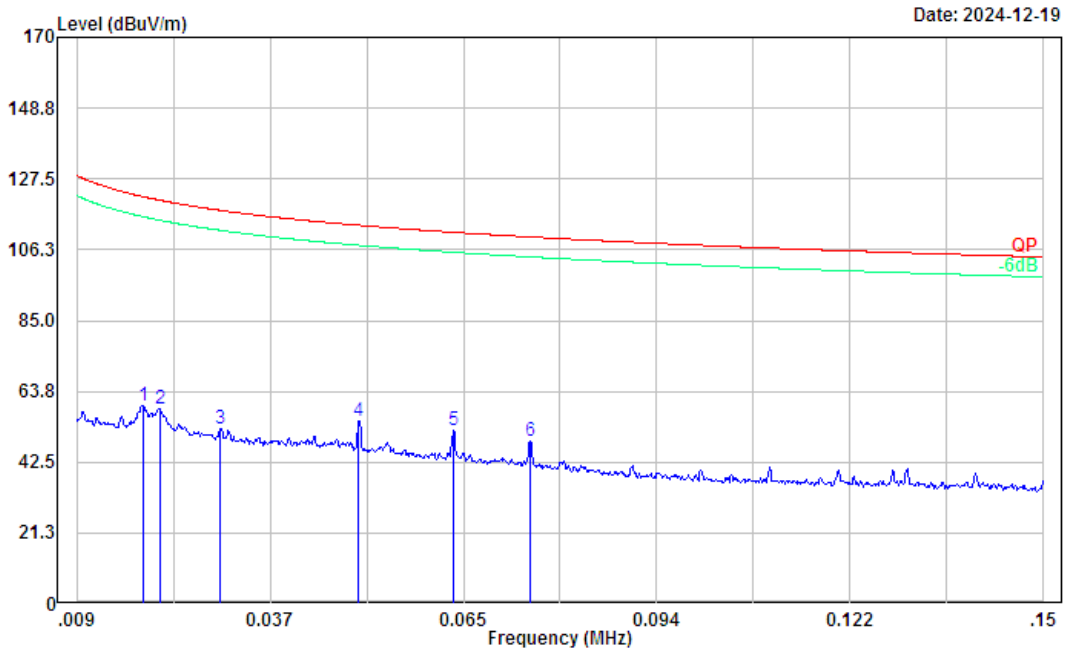
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:
Please refer to the below table and plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is referred to table and plots.

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

9kHz~30MHz

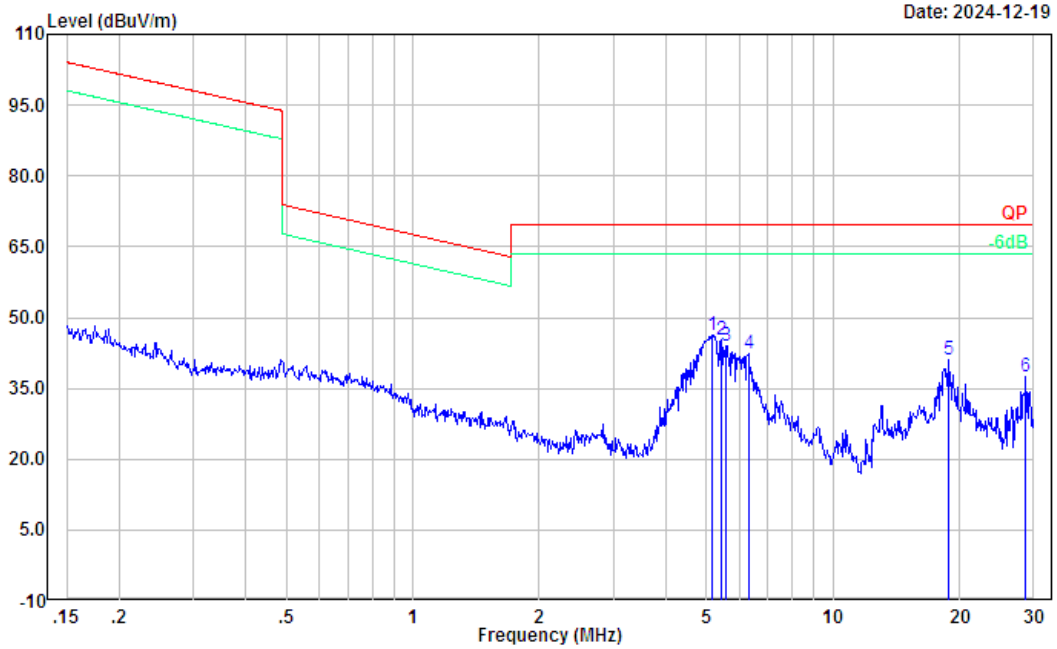
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Parallel Tester: Jayce Wang
Test Mode: Transmitting
: RBW:300Hz,VBW:1kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.019	10.03	49.32	59.35	122.15	62.80	Peak
2	0.021	9.56	48.75	58.31	121.11	62.80	Peak
3	0.030	5.62	46.74	52.36	118.06	65.70	Peak
4	0.050	11.23	43.41	54.64	113.60	58.96	Peak
5	0.064	11.12	41.15	52.27	111.48	59.21	Peak
6	0.075	9.46	39.24	48.70	110.09	61.39	Peak

Project No.: 2402A108252E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:10kHz,VBW:30kHz

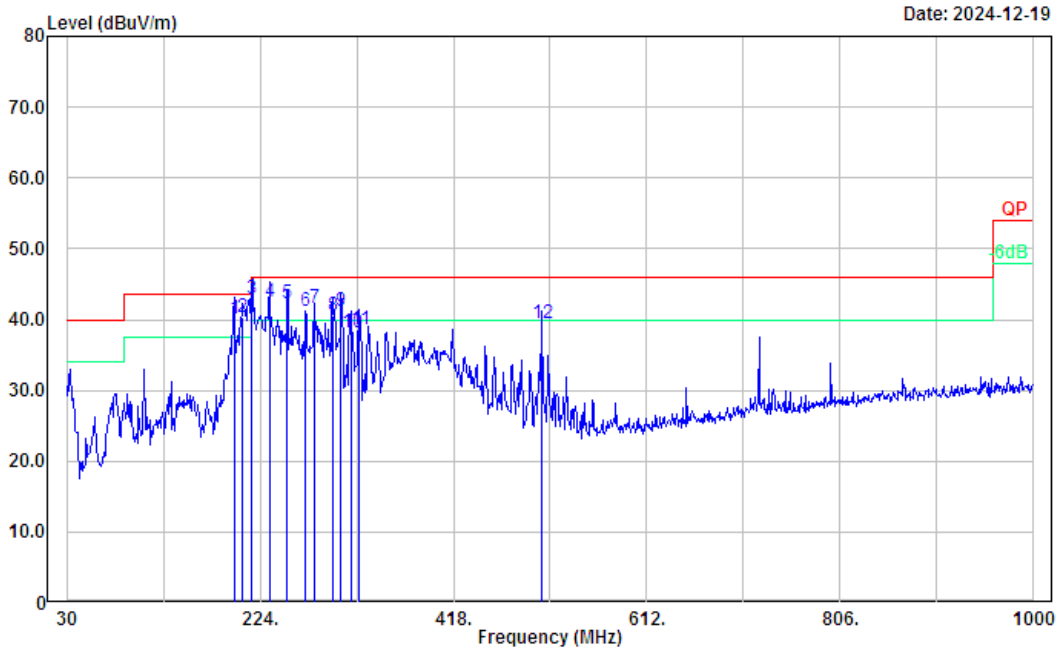
Serial No.: 2VH2-1
Tester: Jayce Wang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5.166	40.80	5.59	46.39	69.54	23.15	Peak
2	5.419	39.83	5.42	45.25	69.54	24.29	Peak
3	5.564	38.79	5.33	44.12	69.54	25.42	Peak
4	6.285	37.22	5.05	42.27	69.54	27.27	Peak
5	18.820	37.74	3.45	41.19	69.54	28.35	Peak
6	28.755	33.88	3.47	37.35	69.54	32.19	Peak

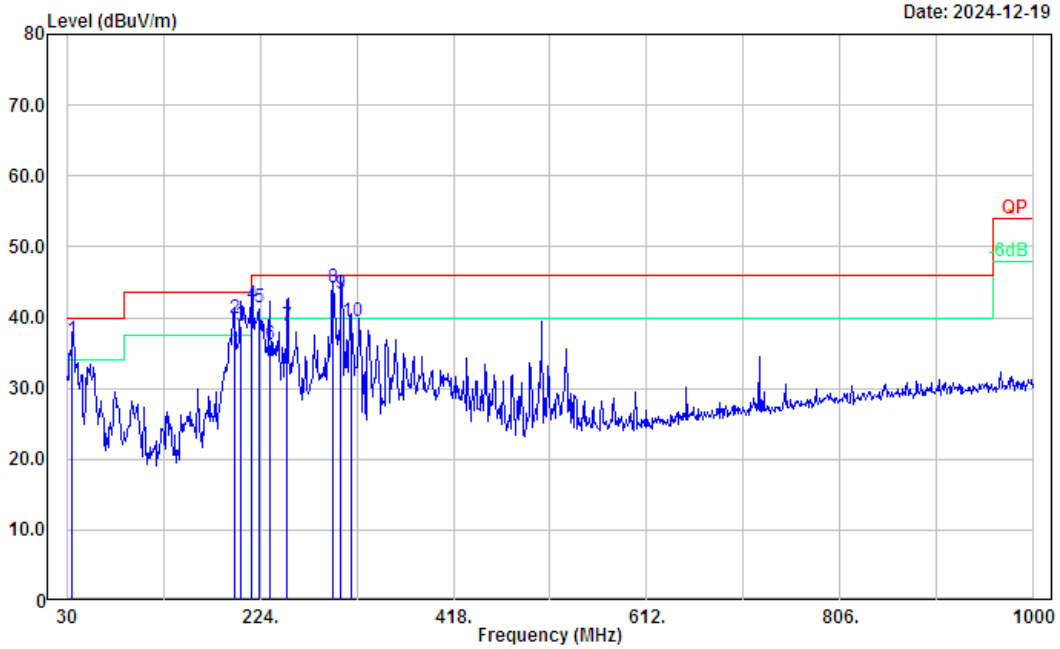
30MHz-1GHz

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Jayce Wang
Test Mode: Transmitting
: RBW:100kHz,VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	197.81	51.50	-11.44	40.06	43.50	3.44	QP
2	206.54	51.41	-11.11	40.30	43.50	3.20	QP
3	216.00	53.98	-10.98	43.00	43.50	0.50	QP
4	233.70	53.58	-11.18	42.40	46.00	3.60	QP
5	251.16	53.43	-11.23	42.20	46.00	3.80	QP
6	269.59	51.61	-10.51	41.10	46.00	4.90	QP
7	278.32	51.89	-10.29	41.60	46.00	4.40	QP
8	296.75	49.91	-9.41	40.50	46.00	5.50	QP
9	305.48	50.27	-9.07	41.20	46.00	4.80	QP
10	315.18	46.95	-8.75	38.20	46.00	7.80	QP
11	323.91	47.05	-8.45	38.60	46.00	7.40	QP
12	507.24	43.70	-4.20	39.50	46.00	6.50	QP

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Jayce Wang
Test Mode: Transmitting
: RBW:100kHz,VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	35.82	44.47	-7.67	36.80	40.00	3.20	QP
2	197.81	51.24	-11.44	39.80	43.50	3.70	QP
3	204.60	49.82	-11.12	38.70	43.50	4.80	QP
4	216.03	52.91	-10.98	41.93	46.00	4.07	QP
5	223.03	52.47	-10.97	41.50	46.00	4.50	QP
6	233.70	47.38	-11.18	36.20	46.00	9.80	QP
7	251.16	50.03	-11.23	38.80	46.00	7.20	QP
8	296.75	53.61	-9.41	44.20	46.00	1.80	QP
9	305.48	52.47	-9.07	43.40	46.00	2.60	QP
10	315.18	48.15	-8.75	39.40	46.00	6.60	QP

2) 1-25GHz:

Serial Number:	2VH2-1	Test Date:	2025/1/3
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Nat Zhou	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	22	Relative Humidity: (%)	36	ATM Pressure: (kPa)	101.5

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	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).*

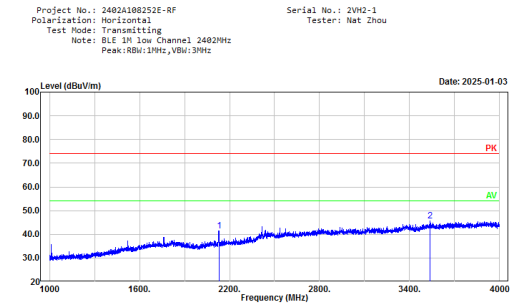
Test Data:

Please refer to the below table and plots.

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

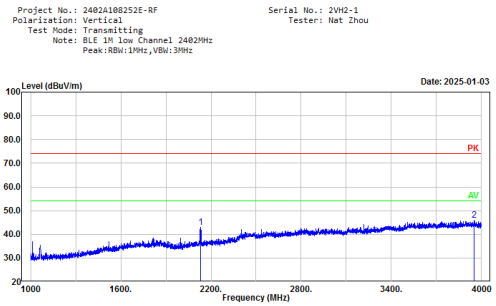
Test plots for 1GHz~18GHz:

BLE 1M, Low Channel, Horizontal

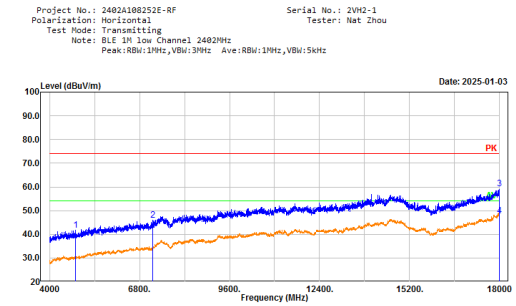


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.20	51.93	-10.53	41.40	74.00	32.60	Peak
2	3535.60	50.51	-4.92	45.59	74.00	28.41	Peak

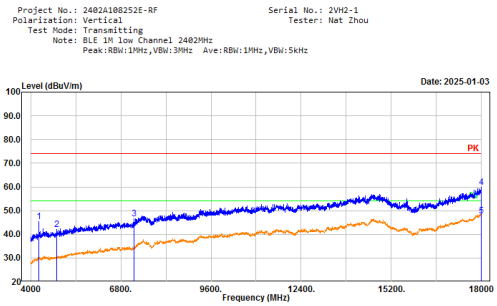
BLE 1M, Low Channel, Vertical



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.20	53.59	-10.53	43.06	74.00	30.94	Peak
2	3952.60	49.58	-3.63	45.95	74.00	28.05	Peak



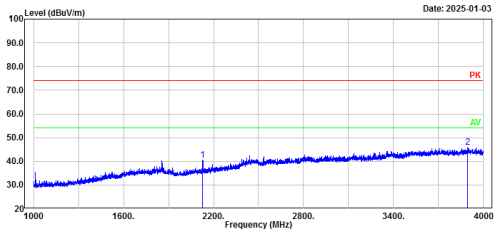
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.00	50.31	-8.62	41.69	74.00	32.31	Peak
2	7206.00	49.71	-3.81	45.90	74.00	28.10	Peak
3	17993.00	47.84	11.37	59.21	74.00	14.79	Peak
4	17993.00	36.55	11.37	47.92	54.00	6.08	Average



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4252.00	54.63	-9.16	45.47	74.00	28.53	Peak
2	4804.00	50.77	-8.62	42.15	74.00	31.85	Peak
3	7206.00	50.24	-3.81	46.43	74.00	27.57	Peak
4	17991.60	48.44	11.35	59.79	74.00	14.21	Peak
5	17991.60	36.54	11.35	47.89	54.00	6.11	Average

BLE 1M, Middle Channel, Horizontal

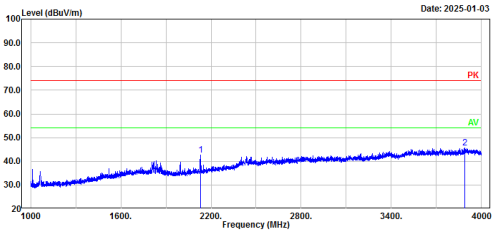
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2124.40	51.07	-10.54	40.53	74.00	33.47	Peak
2	3894.40	49.52	-3.65	45.87	74.00	28.13	Peak

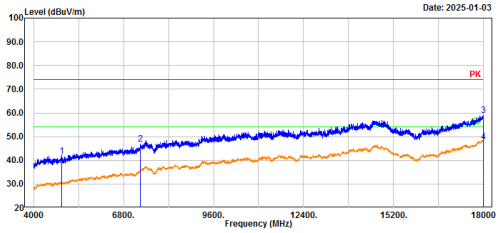
BLE 1M, Middle Channel, Vertical

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz



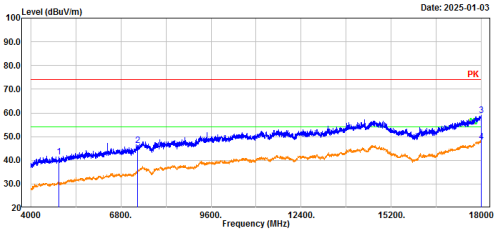
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2132.20	53.12	-10.52	42.60	74.00	31.40	Peak
2	3887.80	49.38	-3.79	45.59	74.00	28.41	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	50.12	-8.48	41.64	74.00	32.36	Peak
2	7320.00	49.97	-3.21	46.76	74.00	27.24	Peak
3	17989.00	47.56	11.33	58.89	74.00	15.11	Peak
4	17989.00	36.54	11.33	47.87	54.00	6.13	Average

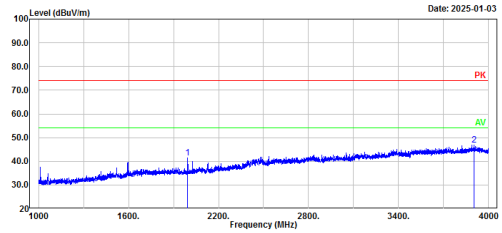
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	49.90	-8.48	41.42	74.00	32.58	Peak
2	7320.00	49.62	-3.21	46.41	74.00	27.59	Peak
3	17998.00	47.54	11.38	58.92	74.00	15.08	Peak
4	17998.00	36.40	11.38	47.78	54.00	6.22	Average

BLE 1M, High Channel, Horizontal

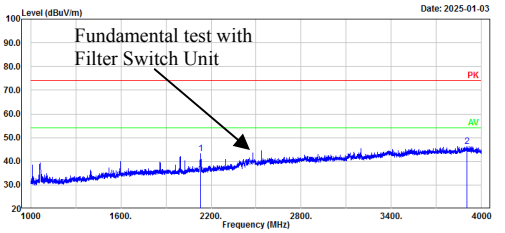
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M high Channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1992.40	52.45	-11.16	41.29	74.00	32.71	Peak
2	3901.00	50.47	-3.61	46.86	74.00	27.14	Peak

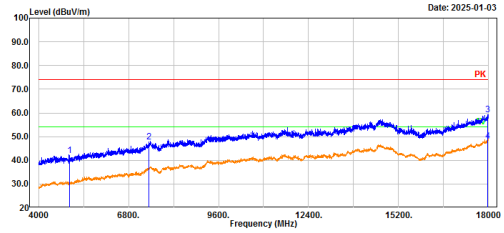
BLE 1M, High Channel, Vertical

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M high Channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



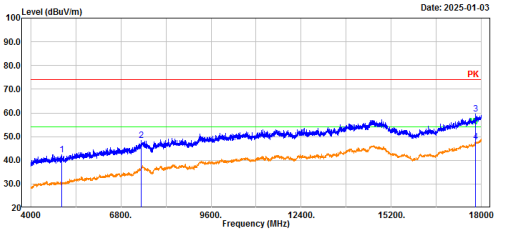
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2130.40	53.73	-10.52	43.21	74.00	30.79	Peak
2	3901.60	49.94	-3.63	46.31	74.00	27.69	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M high Channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.55	-8.48	42.07	74.00	31.93	Peak
2	7440.00	50.28	-2.62	47.66	74.00	26.34	Peak
3	17974.80	47.92	11.25	59.17	74.00	14.83	Peak
4	17974.80	36.68	11.25	47.93	54.00	6.07	Average

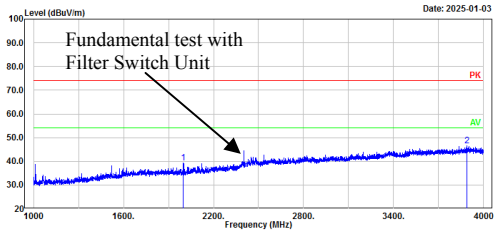
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 1M high Channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.71	-8.48	42.23	74.00	31.77	Peak
2	7440.00	50.88	-2.62	48.26	74.00	25.74	Peak
3	17823.60	49.14	10.27	59.41	74.00	14.59	Peak
4	17823.60	37.62	10.27	47.89	54.00	6.11	Average

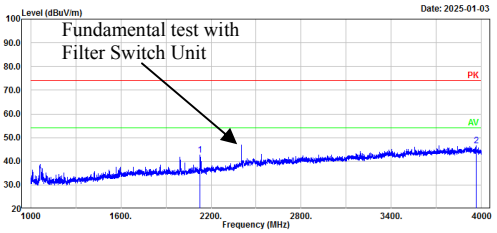
BLE 2M, Low Channel, Horizontal	BLE 2M, Low Channel, Vertical

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz



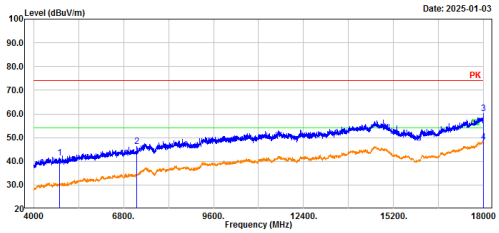
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1998.40	50.53	-11.21	39.32	74.00	34.68	Peak
2	3886.60	50.52	-3.81	46.71	74.00	27.29	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz



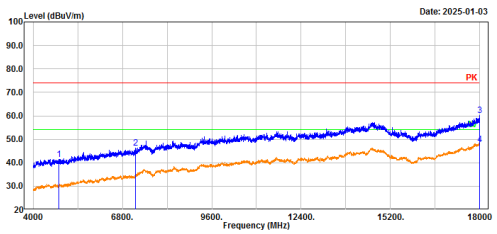
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2125.00	53.25	-10.54	42.71	74.00	31.29	Peak
2	3962.80	50.35	-3.71	46.64	74.00	27.36	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.00	50.13	-8.62	41.51	74.00	32.49	Peak
2	7206.00	49.99	-3.81	46.18	74.00	27.82	Peak
3	17986.00	48.83	11.32	60.15	74.00	13.85	Peak
4	17986.00	36.65	11.32	47.97	54.00	6.03	Average

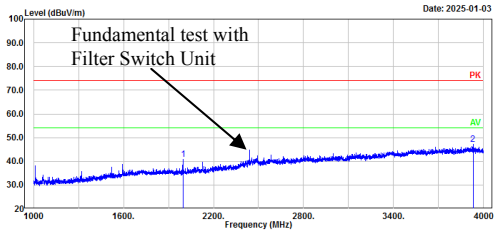
Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M low Channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.00	50.04	-8.62	41.42	74.00	32.58	Peak
2	7206.00	50.08	-3.81	46.27	74.00	27.73	Peak
3	17994.40	48.68	11.37	60.05	74.00	13.95	Peak
4	17994.40	36.51	11.37	47.88	54.00	6.12	Average

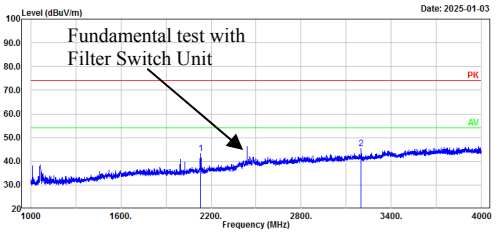
BLE 2M, Middle Channel, Horizontal	BLE 2M, Middle Channel, Vertical

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz



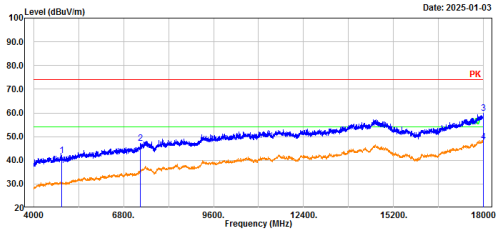
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1996.00	51.91	-11.19	40.72	74.00	33.28	Peak
2	3929.20	50.90	-3.77	47.13	74.00	26.87	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz



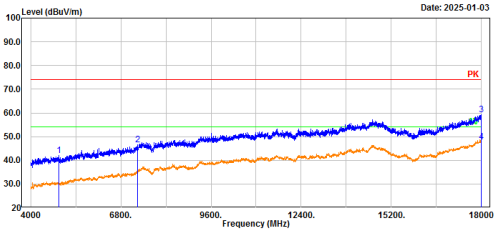
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.20	53.65	-10.53	43.12	74.00	30.88	Peak
2	3200.20	51.17	-5.77	45.40	74.00	28.60	Peak

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



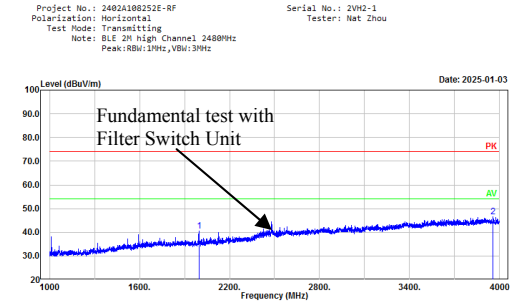
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	50.41	-8.48	41.93	74.00	32.07	Peak
2	7320.00	50.31	-3.21	47.10	74.00	26.90	Peak
3	17983.20	48.47	11.32	59.79	74.00	14.21	Peak
4	17983.20	36.47	11.32	47.79	54.00	6.21	Average

Project No.: 2402A108252E-RF Serial No.: 2VH2-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: BLE 2M middle Channel 2440MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



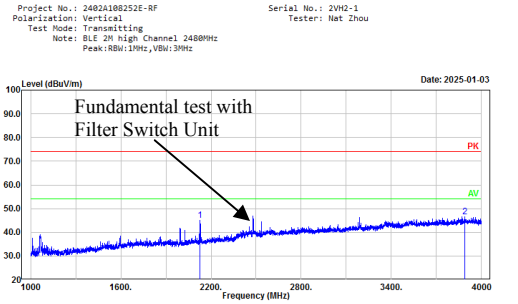
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	50.38	-8.48	41.90	74.00	32.10	Peak
2	7320.00	49.78	-3.21	46.57	74.00	27.43	Peak
3	17988.80	48.02	11.33	59.35	74.00	14.65	Peak
4	17988.80	36.56	11.33	47.89	54.00	6.11	Average

BLE 2M, High Channel, Horizontal

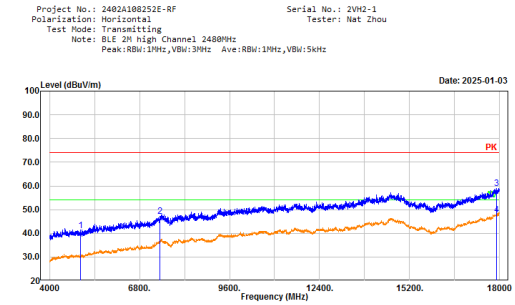


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1996.00	51.66	-11.19	40.47	74.00	33.53	Peak
2	3956.20	50.14	-3.66	46.48	74.00	27.52	Peak

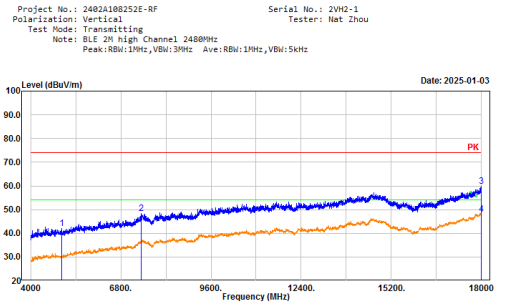
BLE 2M, High Channel, Vertical



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2128.00	55.68	-10.53	45.15	74.00	28.85	Peak
2	3887.80	50.46	-3.79	46.67	74.00	27.33	Peak



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	49.76	-8.48	41.28	74.00	32.72	Peak
2	7440.00	49.87	-2.62	47.25	74.00	26.75	Peak
3	17902.00	48.12	10.74	58.86	74.00	15.14	Peak
4	17902.00	37.00	10.74	47.74	54.00	6.26	Average

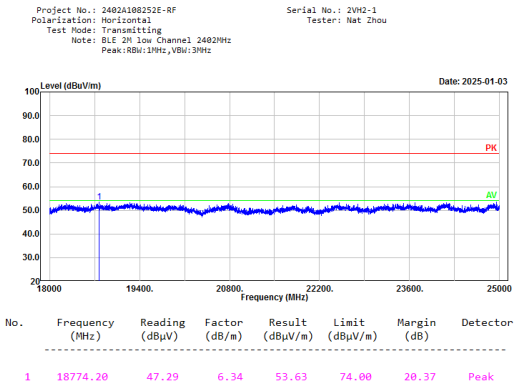


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.52	-8.48	42.04	74.00	31.96	Peak
2	7440.00	50.94	-2.62	48.32	74.00	25.68	Peak
3	17994.40	48.54	11.37	59.91	74.00	14.09	Peak
4	17994.40	36.57	11.37	47.94	54.00	6.06	Average

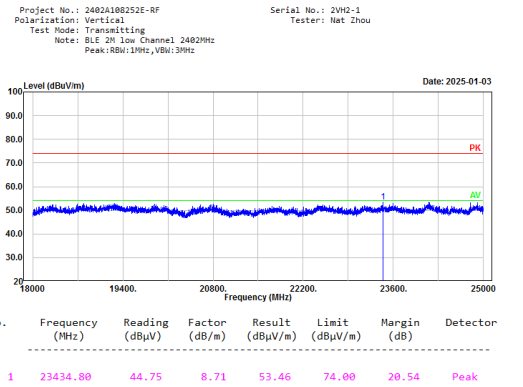
Test plots for 18GHz~25GHz:

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

BLE 2M, Low Channel, Horizontal	BLE 2M, Low Channel, Vertical

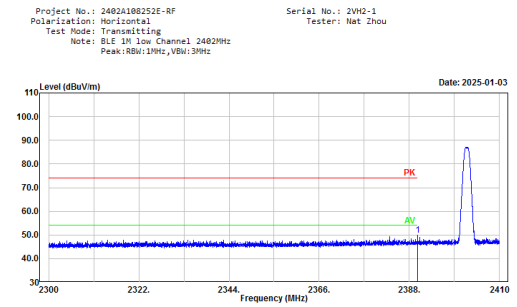
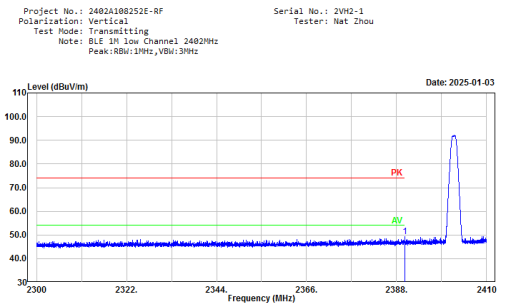
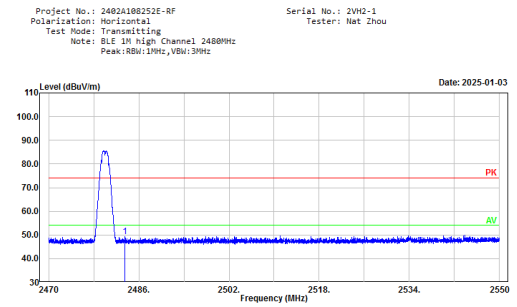
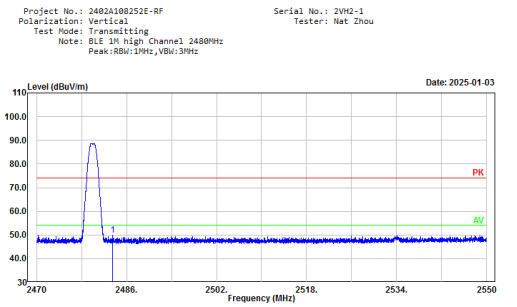


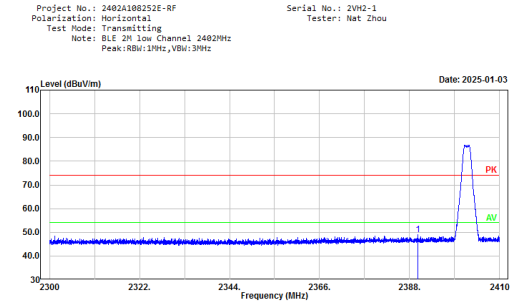
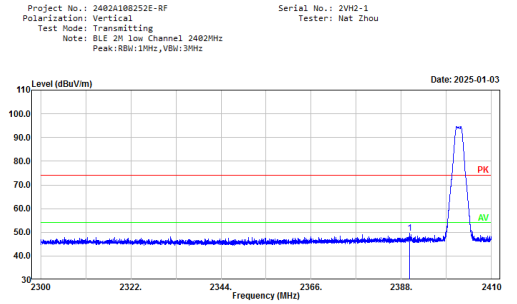
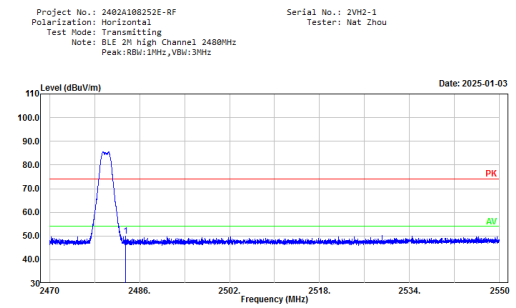
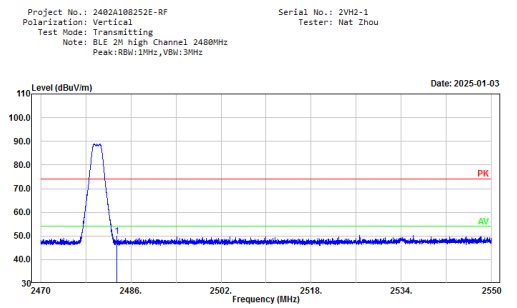
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	18774.20	47.29	6.34	53.63	74.00	20.37	Peak



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	23434.80	44.75	8.71	53.46	74.00	20.54	Peak

Test Plots for Bandedge:

BLE 1M, Low Channel, Bandedge, Horizontal	BLE 1M, Low Channel, Bandedge, Vertical
 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 50.42 -0.49 49.93 74.00 24.07 Peak	 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 49.86 -0.49 49.37 74.00 24.63 Peak
BLE 1M, High Channel, Bandedge, Horizontal	**BLE 1M, High Channel, Bandedge, Vertical**
 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 49.33 -0.05 49.28 74.00 24.72 Peak	 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 50.11 -0.05 50.06 74.00 23.94 Peak

BLE 2M, Low Channel, Bandedge, Horizontal	BLE 2M, Low Channel, Bandedge, Vertical
	
No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 49.53 -0.49 49.04 74.00 24.96 Peak	No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 50.07 -0.49 49.58 74.00 24.42 Peak
BLE 2M, High Channel, Bandedge, Horizontal	**BLE 2M, High Channel, Bandedge, Vertical**
	
No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 49.91 -0.05 49.86 74.00 24.14 Peak	No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 49.83 -0.05 49.78 74.00 24.22 Peak

5.3 6dB Emission Bandwidth

Test Information:

Serial No.:	2VH2-2	**Test Date:**	2024/12/20
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Karl Liang	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	20.4	**Relative Humidity: (%)**	28	**ATM Pressure: (kPa)**	102.3

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-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	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:

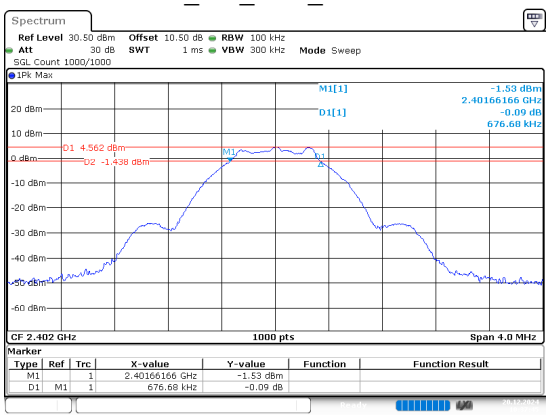
BLE 1M

Channel	Result (MHz)	Limit (MHz)	Verdict
BLE 1Mbps Low	0.677	≥0.5	Pass
BLE 1Mbps Middle	0.685	≥0.5	Pass
BLE 1Mbps High	0.681	≥0.5	Pass

BLE 2M

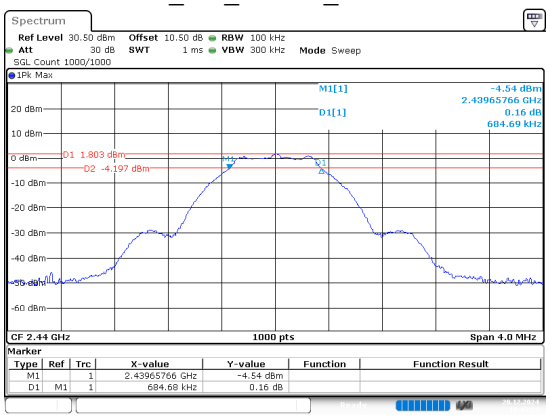
Channel	Result (MHz)	Limit (MHz)	Verdict
BLE 2Mbps Low	1.153	≥0.5	Pass
BLE 2Mbps Middle	1.165	≥0.5	Pass
BLE 2Mbps High	1.153	≥0.5	Pass

BLE_1M_Low_Channel



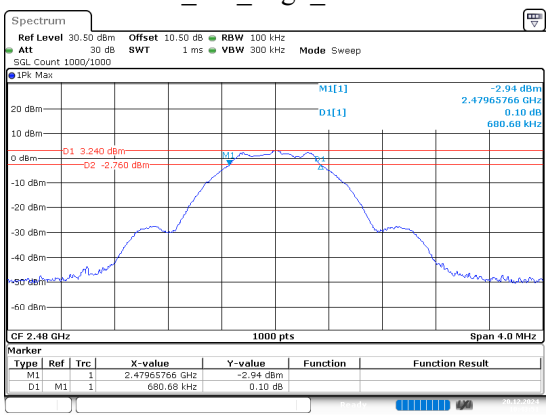
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:37:45

BLE_1M_Middle_Channel



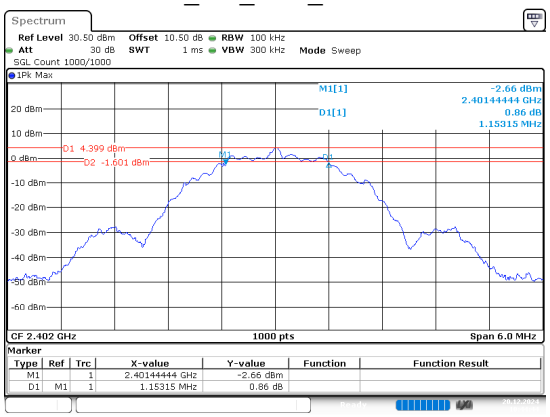
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:43:24

BLE_1M_High_Channel



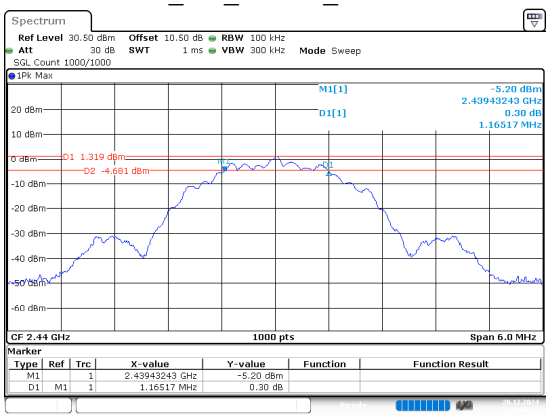
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:43:51

BLE_2M_Low_Channel



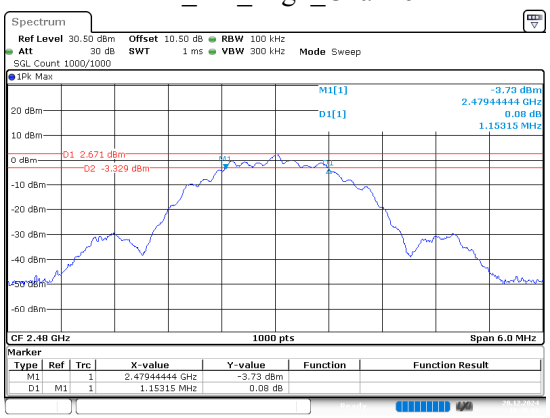
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:44:44

BLE_2M_Middle_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:45:11

BLE_2M_High_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:45:33

5.4 Maximum Conducted Output Power

Test Information:

Serial No.:	2VH2-2	**Test Date:**	2024/12/20~2025/01/22
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Karl Liang	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	20.4~24.2	**Relative Humidity: (%)**	28~49	**ATM Pressure: (kPa)**	101.2~102.3

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-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	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:

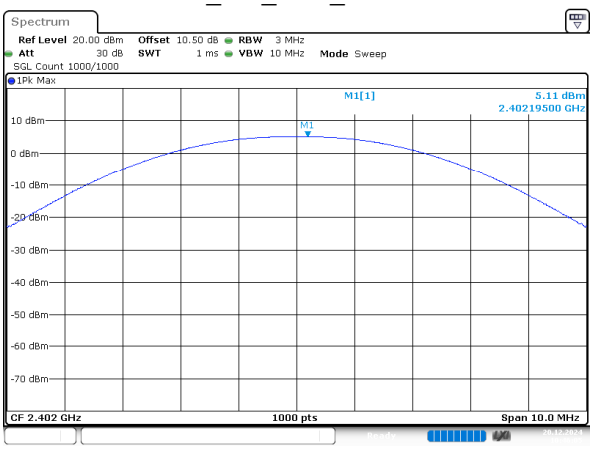
BLE 1M

Channel	Result (dBm)	Limit (dBm)	Verdict
BLE 1Mbps Low	5.11	30.00	Pass
BLE 1Mbps Middle	3.34	30.00	Pass
BLE 1Mbps High	3.41	30.00	Pass

BLE 2M

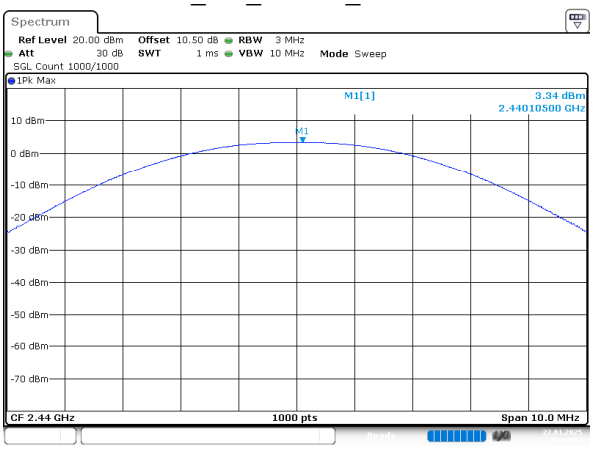
Channel	Result (dBm)	Limit (dBm)	Verdict
BLE 2Mbps Low	5.18	30.00	Pass
BLE 2Mbps Middle	3.33	30.00	Pass
BLE 2Mbps High	2.95	30.00	Pass

BLE_1M_Low_Channel



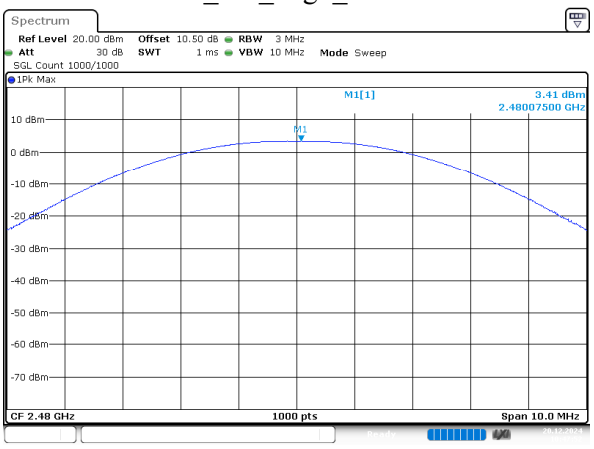
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:46:06

BLE_1M_Middle_Channel



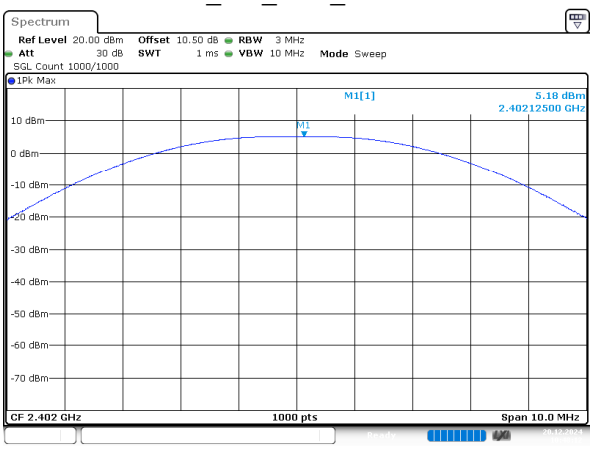
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 22.JAN.2025 10:02:15

BLE_1M_High_Channel



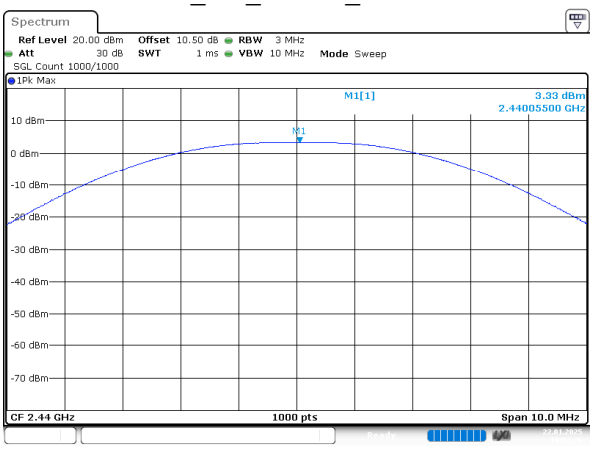
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:47:53

BLE_2M_Low_Channel



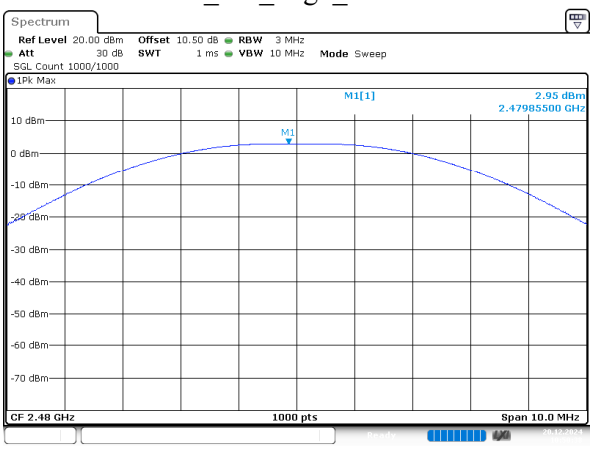
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:48:12

BLE_2M_Middle_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 22.JAN.2025 10:02:27

BLE_2M_High_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:50:39

5.5 Power Spectral Density

Test Information:

Serial No.:	2VH2-2	**Test Date:**	2024/12/20
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Karl Liang	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	20.4	**Relative Humidity: (%)**	28	**ATM Pressure: (kPa)**	102.3

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-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	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:

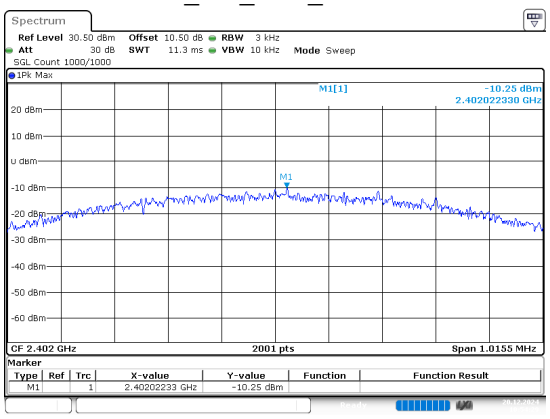
BLE 1M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1Mbps Low	-10.25	8	Pass
BLE 1Mbps Middle	-12.78	8	Pass
BLE 1Mbps High	-10.75	8	Pass

BLE 2M

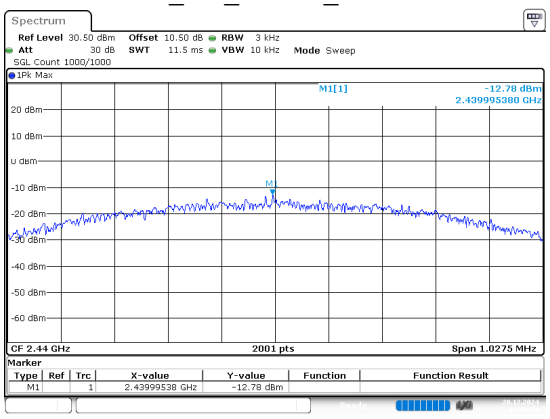
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 2Mbps Low	-11.83	8	Pass
BLE 2Mbps Middle	-16.01	8	Pass
BLE 2Mbps High	-15.06	8	Pass

BLE_1M_Low_Channel



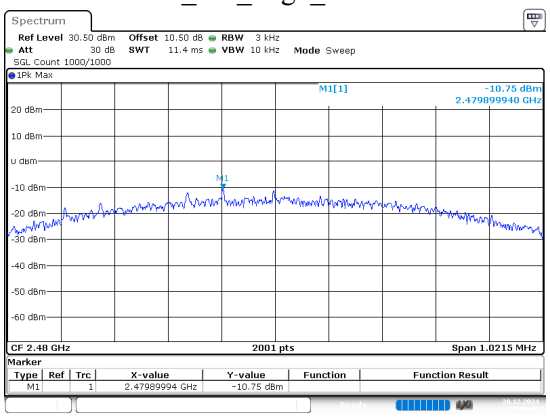
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:54:29

BLE_1M_Middle_Channel



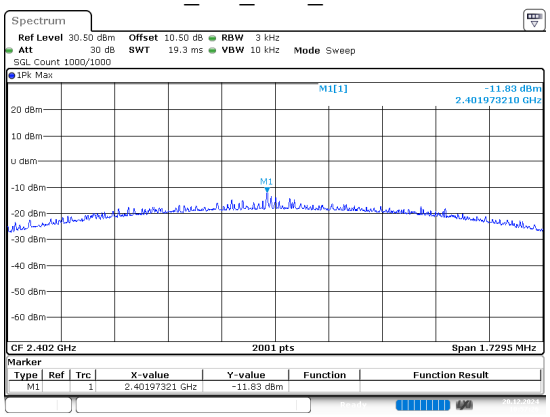
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:56:05

BLE_1M_High_Channel



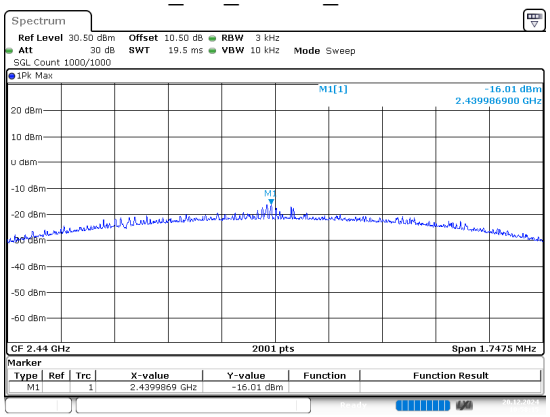
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:56:41

BLE_2M_Low_Channel



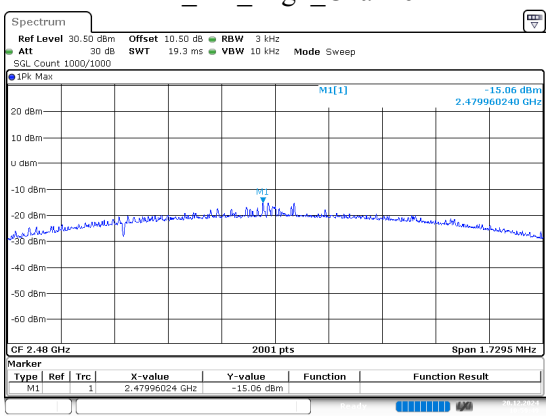
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:57:26

BLE_2M_Middle_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:58:16

BLE_2M_High_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:59:49

5.6 100 kHz Bandwidth of Frequency Band Edge

Test Information:

Serial No.:	2VH2-2	**Test Date:**	2024/12/20
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Karl Liang	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	20.4	**Relative Humidity: (%)**	28	**ATM Pressure: (kPa)**	102.3

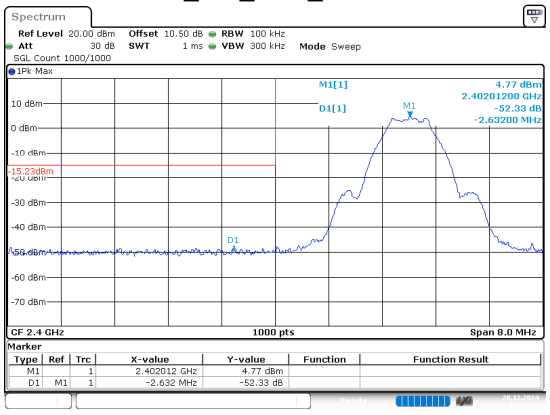
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	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).*

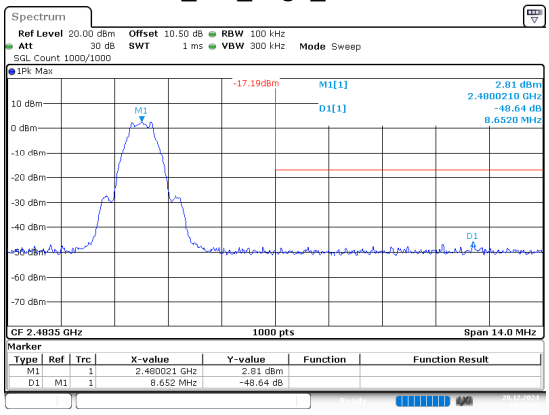
Test Data:

BLE_1M_Low_Channel



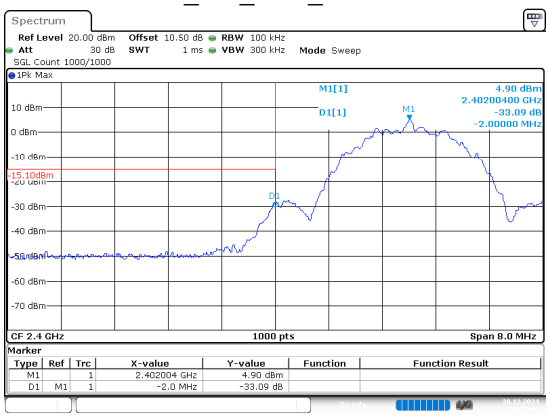
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:51:18

BLE_1M_High_Channel



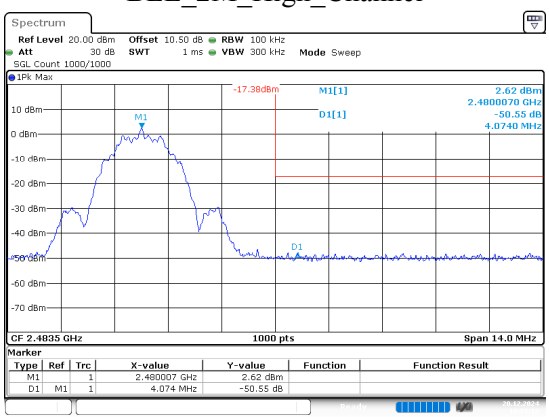
ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:51:56

BLE_2M_Low_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:52:50

BLE_2M_High_Channel



ProjectNo.:2402A108252E-RF Tester:Karl Liang
Date: 20.DEC.2024 10:53:12

5.7 Duty Cycle

Test Information:

Serial No.:	2VH2-2	Test Date:	2024/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	20.4	Relative Humidity: (%)	28	ATM Pressure: (kPa)	102.3

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-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101589	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:

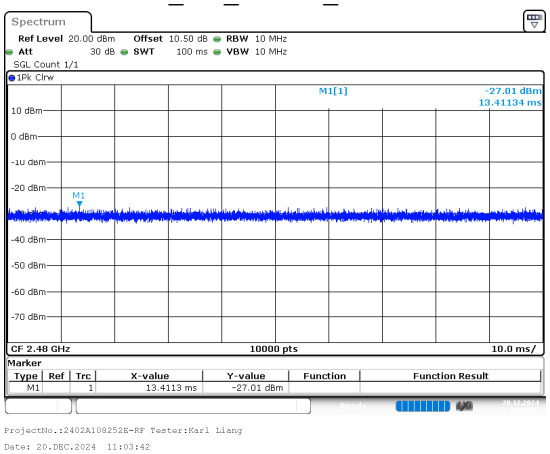
BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps Middle	100	100	100	0	NA	0.010

BLE 2M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
BLE 2Mbps Middle	100	100	100	0	NA	0.010

BLE_1M_Middle_Channel



BLE_2M_Middle_Channel

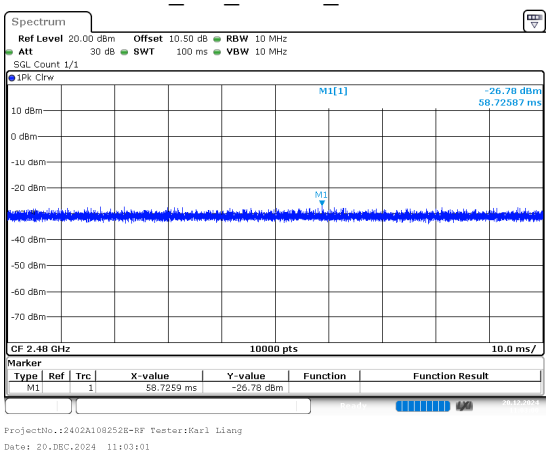


EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402A108252E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402A108252E-RF-INP EUTINTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402A108252E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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