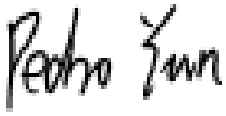
NVLAP TESTING
NVLAP LAB CODE 600341-0

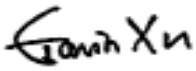
BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**Signify (China) Investment Co., Ltd.**
Address:	**Building no.9, Lane 888, Tianlin Road, Minhang District Shanghai, 200233 China**
Product Name:	**LED lamp**
FCC ID:	**2AGBW9290038565X**
IC:	**20812-38565X**
HVIN:	**9290038565**
Standard(s):	**47 CFR Part 15, Subpart C(15.247) RSS-247 Issue 3, August 2023 RSS-Gen, Issue 5, February 2021 Amendment 2 ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02**
Report Number:	**2402Y98932E-RF-00A**
Report Date:	**2025/1/6**

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	2402Y98932E-RF-00A	Original Report	2025/1/6

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	LED lamp
EUT Model:	9290038565
Operation Frequency:	For BLE 125k/500k/1M/2Mbps:2402-2480MHz For Zigbee:2405-2480MHz
Maximum Peak Output Power (Conducted):	11.93dBm(BLE 125k/500k/1M/2Mbps) 12.01dBm(Zigbee)
Modulation Type:	For BLE: GFSK For Zigbee: O-QPSK
Rated Input Voltage:	110-130 Vac
Serial Number:	2SUO-1(For AC line conducted emissions and Radiated Spurious Emissions Below 1G test) 2V0S-1 (For Radiated Spurious Emissions Above 1G test) 2V0T-1 (For RF Conducted test)
EUT Received Date:	2024/11/27
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Antenna Information Detail▲

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
ZheJiangKlite Lighting Holdings CO.,LTD.	PCB	50	2.4-2.4835GHz	-2dBi
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) RSS-Gen Clause 8.8	AC line conducted emissions	Compliant
§15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10	Radiated Spurious Emissions	Compliant
§15.247 (a)(2) RSS-247 Clause 5.2 a)	Minimum 6 dB Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
§15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliant
§15.247(e) RSS-247 Clause 5.2 b)	Power Spectral Density	Compliant
§15.247(d) RSS-247 Clause 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
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.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For BLE 125k/500k/1M/2M:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	**2402**	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	**2440**	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	**2480**
12	2426	26	2454	/	/
13	2428	27	2456	/	/

For ZigBee:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	**2405**	17	2435	23	2465
12	2410	18	**2440**	24	2470
13	2415	19	2445	25	2475
14	2420	20	2450	26	**2480**
15	2425	21	2455	/	/
16	2430	22	2460	/	/

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

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:	Hue Approbation Tool v1.5.3.0		
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 125k bps	10	10	10
BLE 500k bps	10	10	10
BLE 1M bps	10	10	10
BLE 2M bps	10	10	10
ZigBee	10	10	10

3.3 Support Equipment List and Details

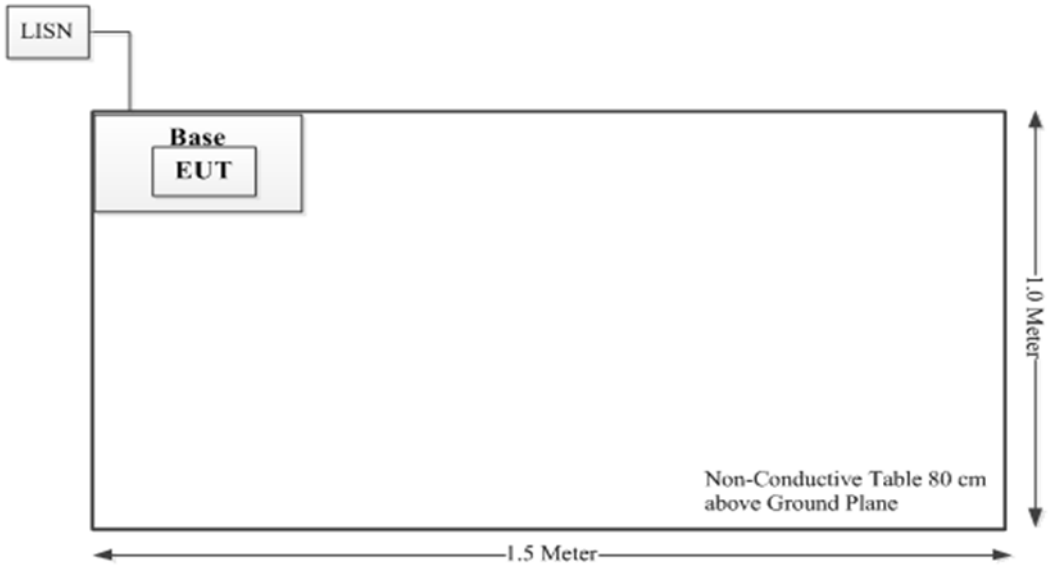
Manufacturer	Description	Model	Serial Number
bacl	Base	Unknown	1256

3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

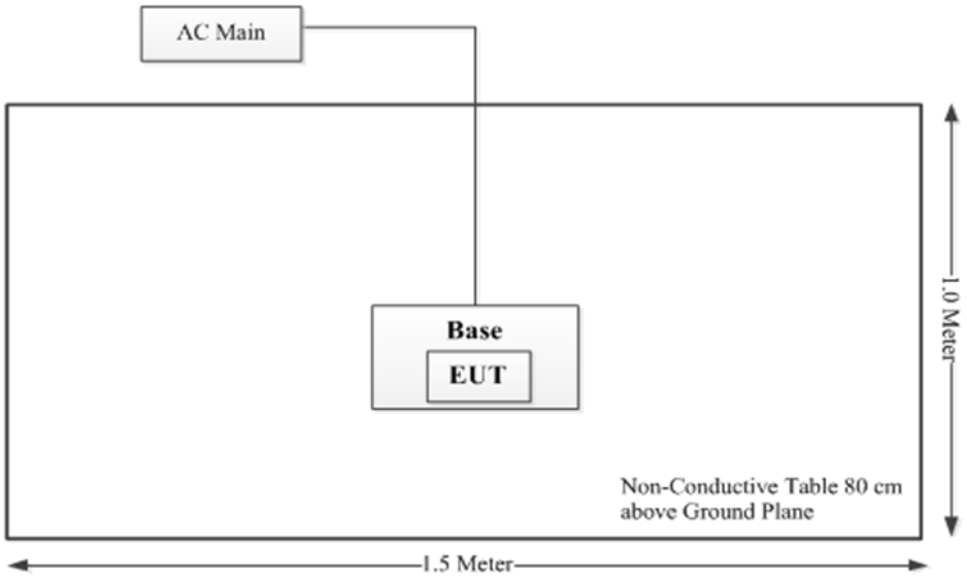
3.5 Block Diagram of Test Setup

AC line conducted emissions:

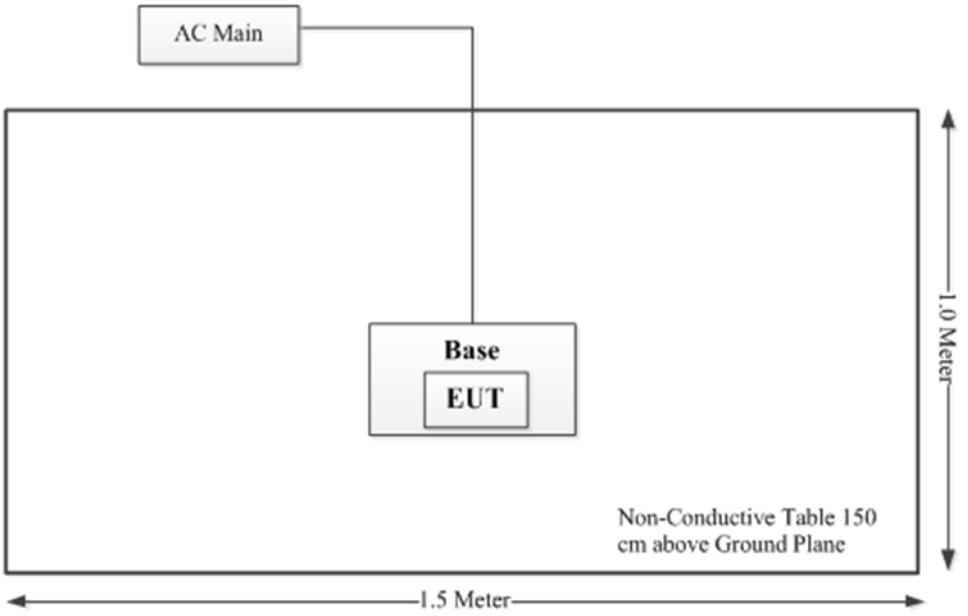


Spurious Emissions:

Below 1GHz:



Above 1GHz:



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, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.
For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

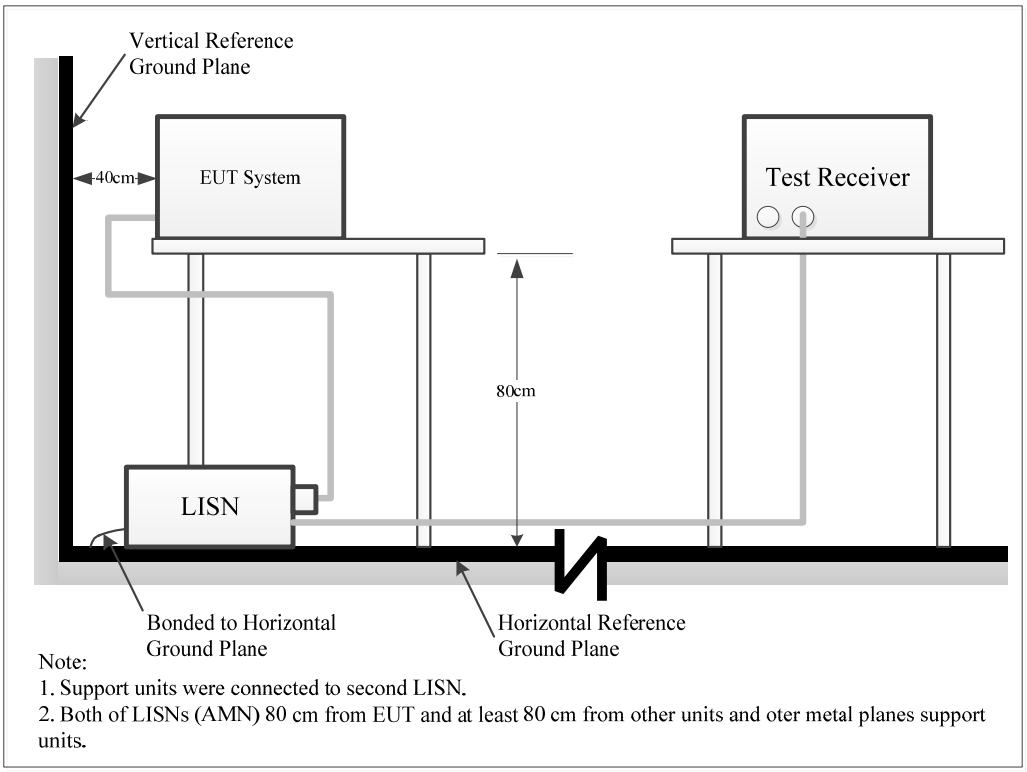
Frequency (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56[1]	56 to 46[1]
0.5 – 5	56	46
5 – 30	60	50

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

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:
(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

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

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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen limits.

The spacing between the peripherals was 10 cm.

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 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

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 Amplitude & 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);

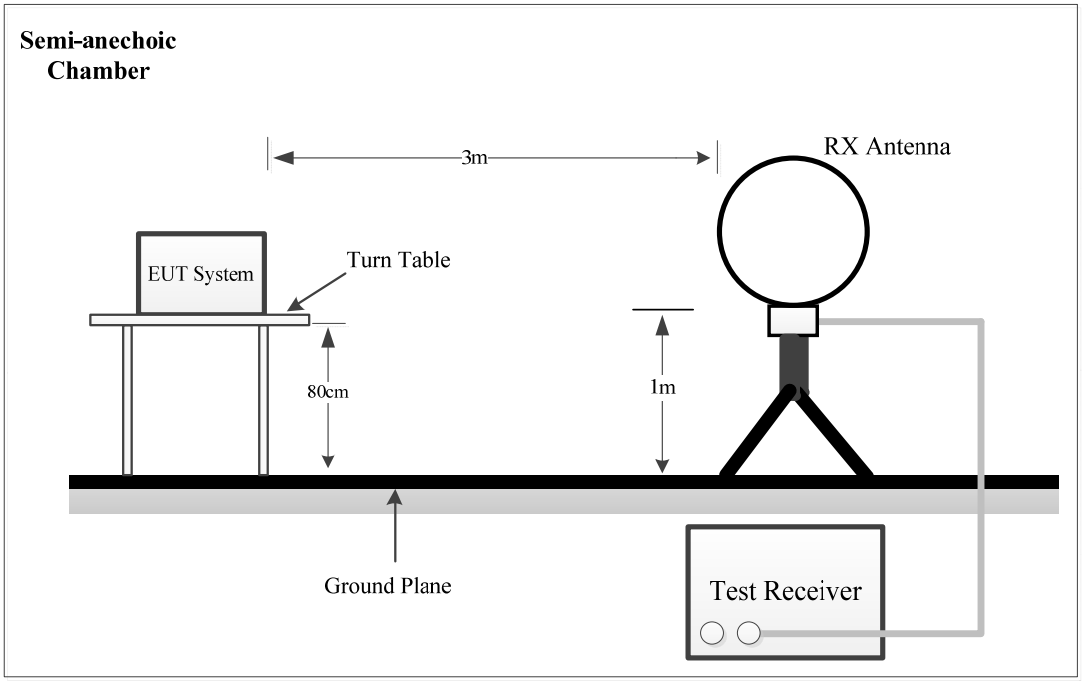
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

RSS-247 Clause 5.5

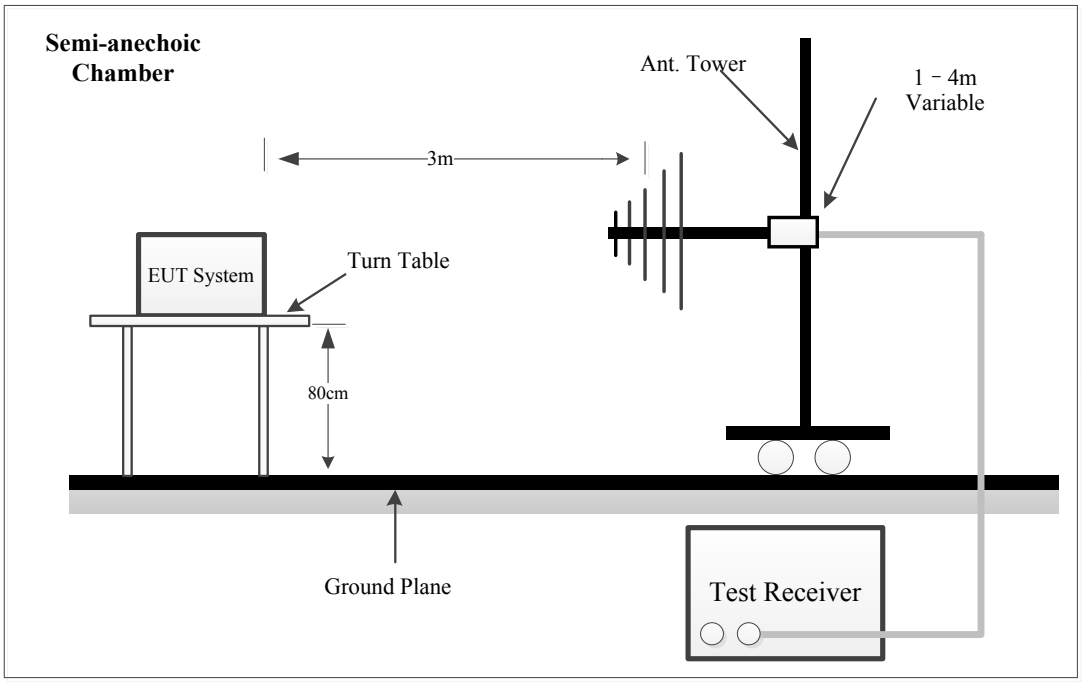
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

4.2.2 EUT Setup

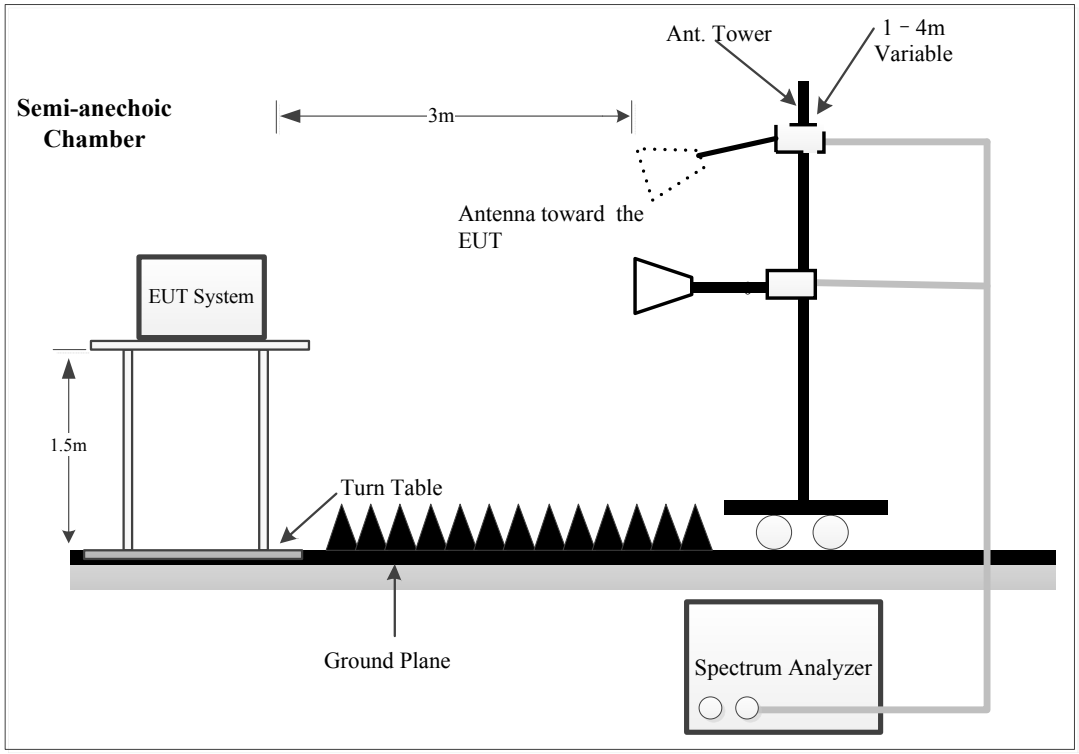
9kHz-30MHz:



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, RSS-247, RSS-Gen limits.

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

The spacing between the peripherals was 10 cm.

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

Above 1GHz:
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:

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 Amplitude & 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

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 Minimum 6 dB Emission Bandwidth

4.3.1 Applicable Standard

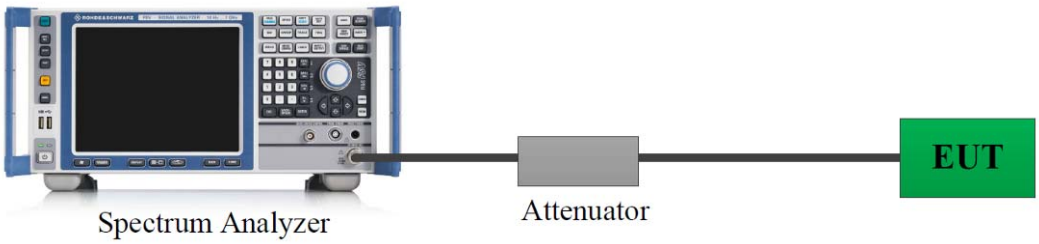
FCC §15.247 (a)(2)

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.

RSS-247 Clause 5.2 a

The minimum 6 dB bandwidth shall be 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 C63.10-2013 Section 11.8

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.3.4 Test Result

Please refer to section 5.3.

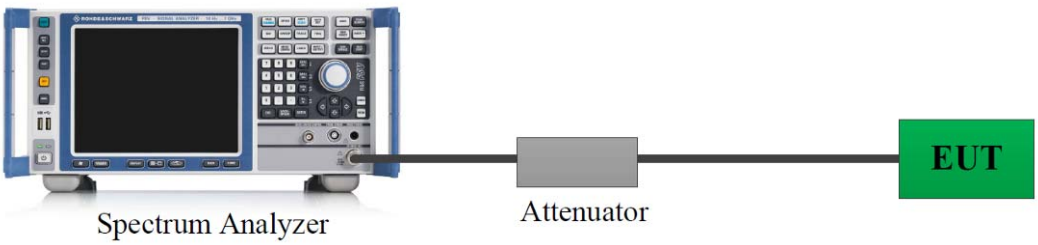
4.4 99% Occupied Bandwidth:

4.4.1 Applicable Standard

RSS-Gen Clause 6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.
In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.
The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:
The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.
Video averaging is not permitted.
Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.
For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

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 C63.10-2013 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.4.4 Test Result

Please refer to section 5.4.

4.5 Maximum Conducted Output Power:

4.5.1 Applicable Standard

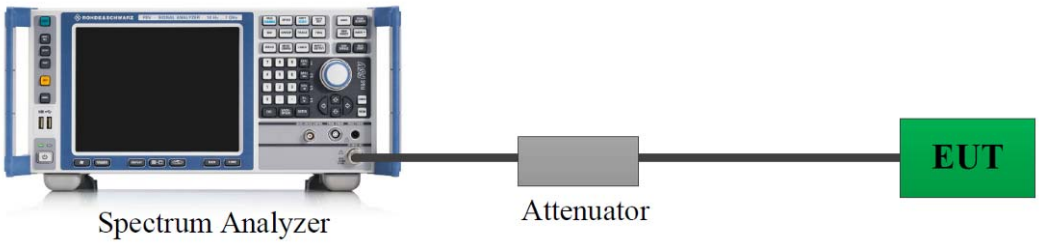
FCC §15.247 (b)(3)

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.

RSS-247 Clause 5.4 d

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

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 C63.10-2013 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:
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = auto couple.
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.

4.5.4 Test Result

Please refer to section 5.5.

4.6 Maximum power spectral density:

4.6.1 Applicable Standard

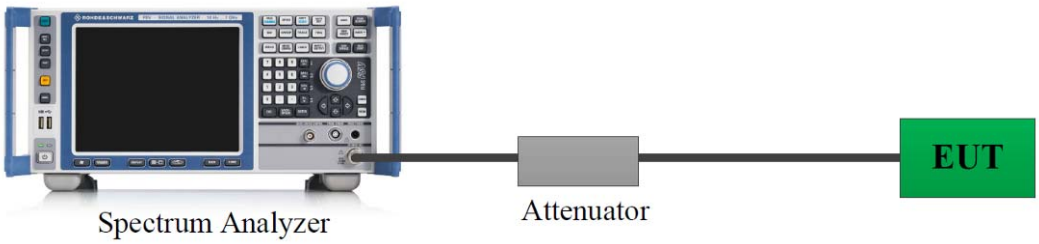
FCC §15.247 (e)

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.

RSS-247 Clause5.2 b

The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

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 C63.10-2013 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 = auto couple.
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.

4.6.4 Test Result

Please refer to section 5.6.

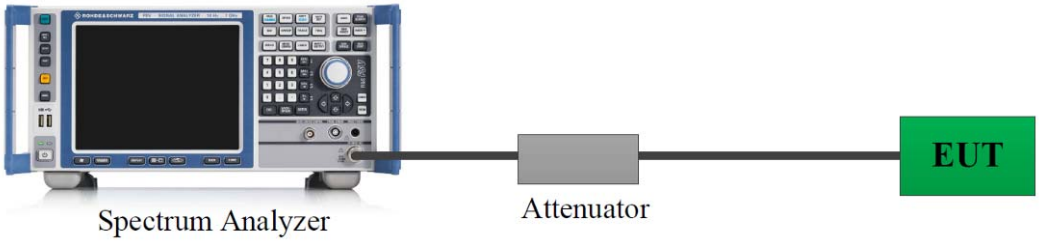
4.7 100 kHz Bandwidth of Frequency Band Edge:

4.7.1 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)).

RSS-247 Clause 5.5
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

4.7.2 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.

4.7.3 Test Procedure

According to ANSI C63.10-2013 Section 11.11

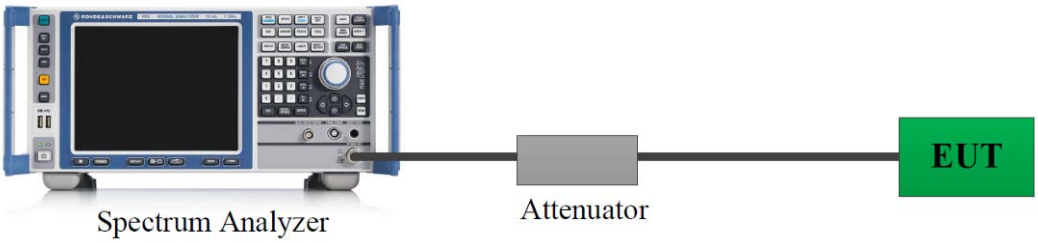
a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum 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.

4.7.4 Test Result

Please refer to section 5.7.

4.8 Duty Cycle:

4.8.1 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.

4.8.2 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 ≥ 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.)

4.8.3 Judgment

Report Only. Please refer to section 5.8.

4.9 Antenna Requirement

4.9.1 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.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).
When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.
The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.
For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:
This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

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

4.9.2 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:	2SUO-1	Test Date:	2024/12/04
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yolo Fan	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25.3	Relative Humidity: (%)	57	ATM Pressure: (kPa)	101.7

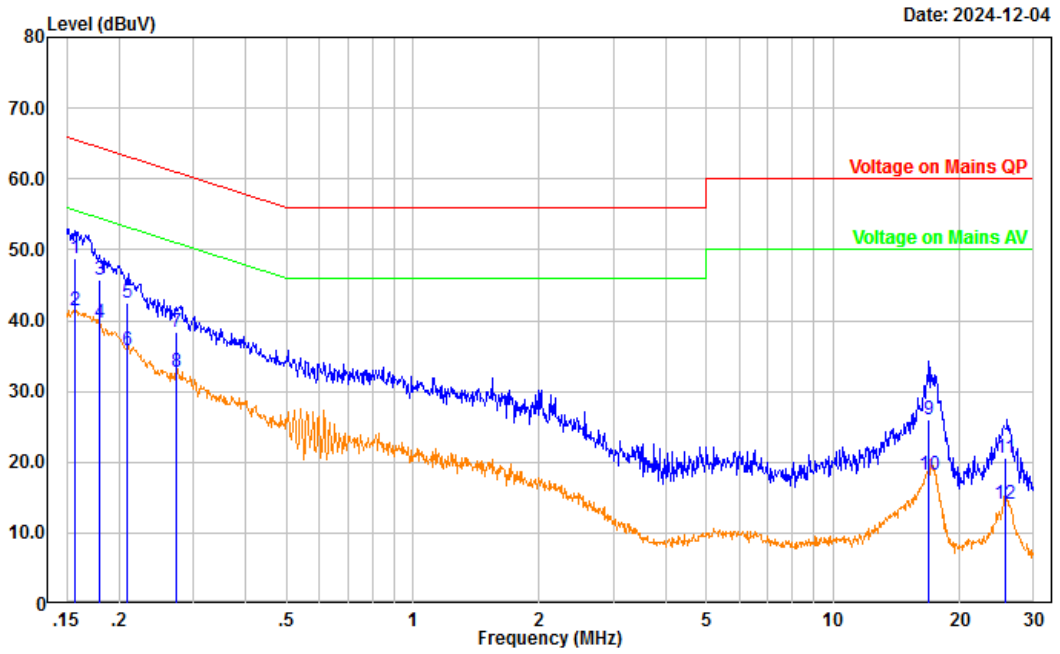
Test Equipment List and Details:

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).*

BLE: 1M bps High channel was tested

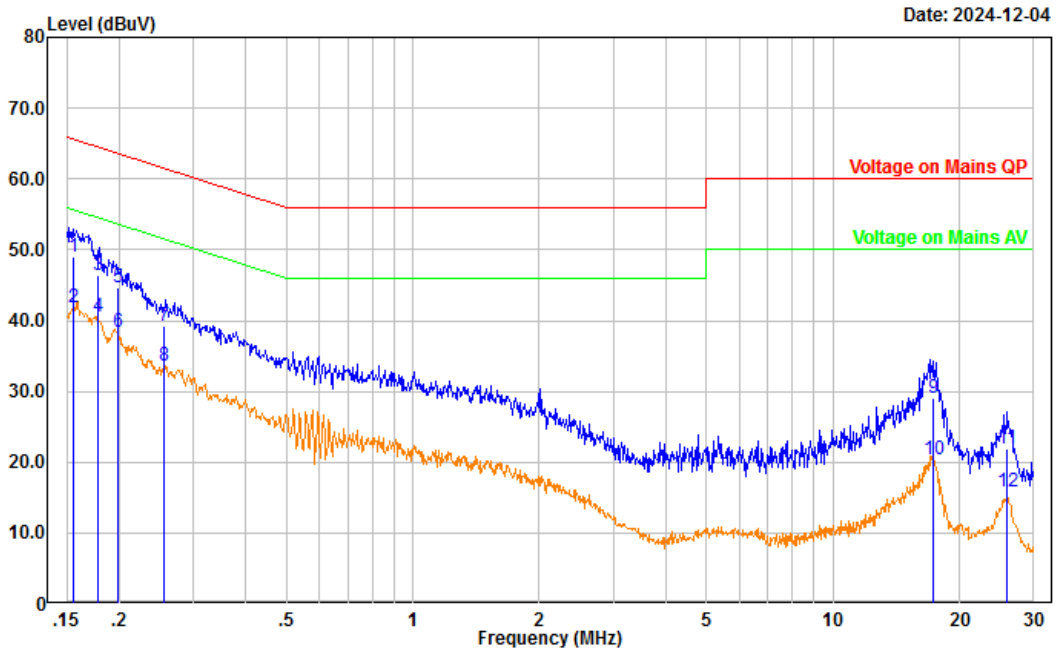
```
Project No.: 2402Y98932E-RF          Serial No.: 2SUO-1
       Port: Line                        Tester: Yolo Fan
  Test Mode: Transmitting
             IF B/W 9kHz PK/AV
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.157	38.01	10.76	48.77	65.60	16.83	QP
2	0.157	30.56	10.76	41.32	55.60	14.28	Average
3	0.179	34.99	10.81	45.80	64.52	18.72	QP
4	0.179	28.76	10.81	39.57	54.52	14.95	Average
5	0.208	31.71	10.85	42.56	63.26	20.70	QP
6	0.208	24.96	10.85	35.81	53.26	17.45	Average
7	0.273	27.56	10.83	38.39	61.01	22.62	QP
8	0.273	21.84	10.83	32.67	51.01	18.34	Average
9	16.847	15.20	10.87	26.07	60.00	33.93	QP
10	16.847	7.41	10.87	18.28	50.00	31.72	Average
11	25.607	9.72	10.87	20.59	60.00	39.41	QP
12	25.607	3.32	10.87	14.19	50.00	35.81	Average

Project No.: 2402Y98932E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2SUO-1
Tester: Yolo Fan

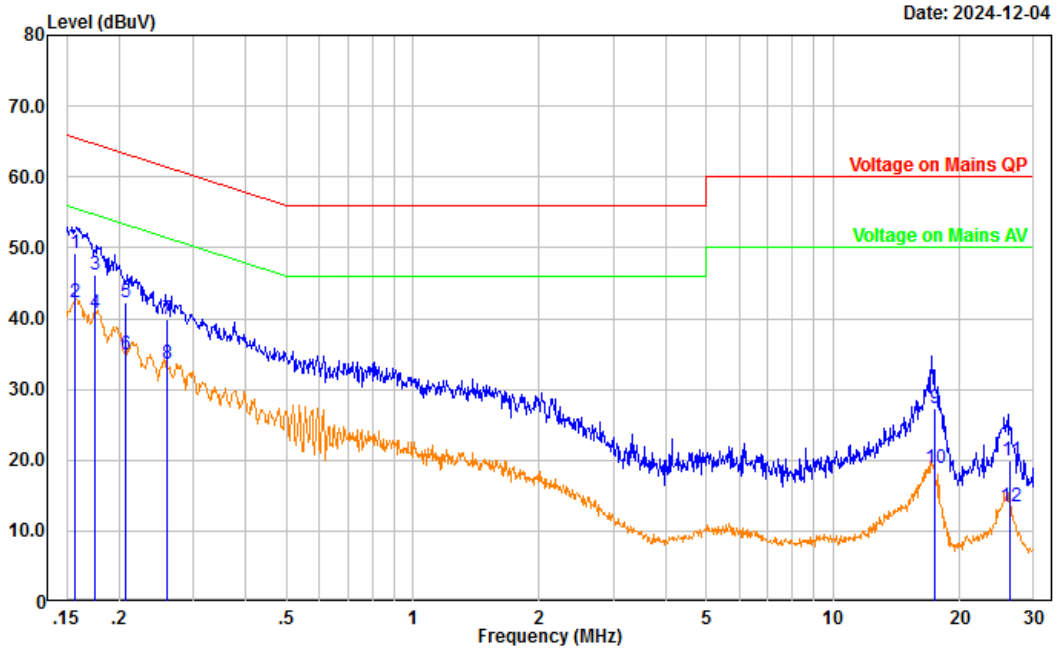


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.156	38.17	10.85	49.02	65.69	16.67	QP
2	0.156	30.99	10.85	41.84	55.69	13.85	Average
3	0.178	35.58	10.85	46.43	64.57	18.14	QP
4	0.178	29.66	10.85	40.51	54.57	14.06	Average
5	0.198	33.74	10.85	44.59	63.68	19.09	QP
6	0.198	27.62	10.85	38.47	53.68	15.21	Average
7	0.256	28.53	10.81	39.34	61.56	22.22	QP
8	0.256	22.86	10.81	33.67	51.56	17.89	Average
9	17.375	18.23	10.87	29.10	60.00	30.90	QP
10	17.375	9.51	10.87	20.38	50.00	29.62	Average
11	25.881	11.00	10.93	21.93	60.00	38.07	QP
12	25.881	5.00	10.93	15.93	50.00	34.07	Average

Zigbee: High channel was tested

Project No.: 2402Y98932E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

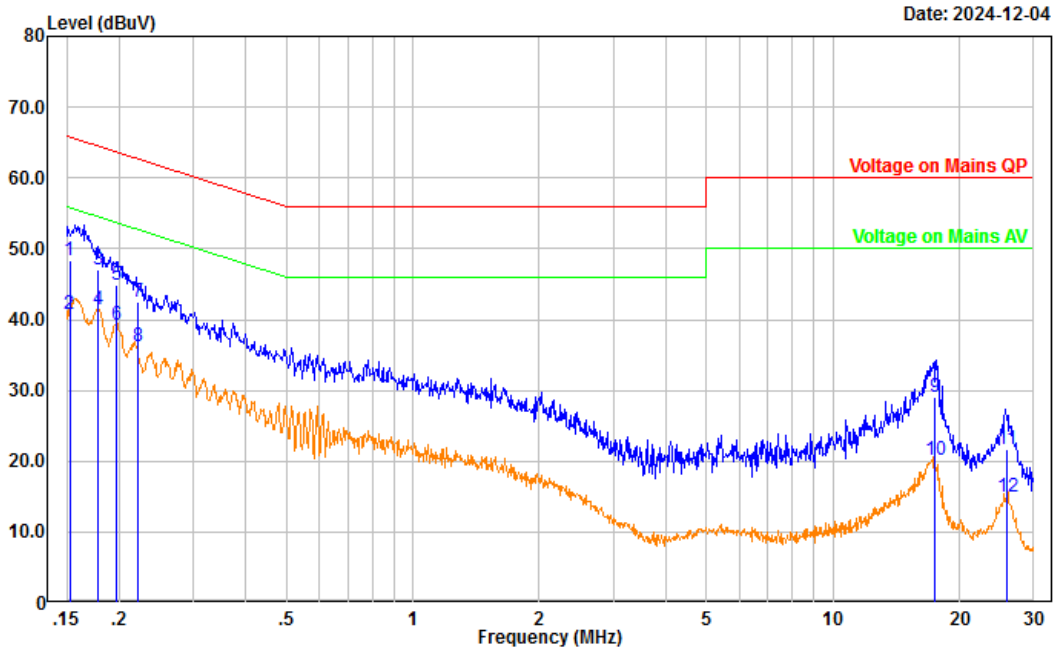
Serial No.: 2SUO-1
Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.157	38.50	10.76	49.26	65.61	16.35	QP
2	0.157	31.60	10.76	42.36	55.61	13.25	Average
3	0.176	35.45	10.80	46.25	64.69	18.44	QP
4	0.176	29.88	10.80	40.68	54.69	14.01	Average
5	0.207	31.45	10.85	42.30	63.31	21.01	QP
6	0.207	24.05	10.85	34.90	53.31	18.41	Average
7	0.260	29.08	10.83	39.91	61.42	21.51	QP
8	0.260	22.82	10.83	33.65	51.42	17.77	Average
9	17.393	16.53	10.87	27.40	60.00	32.60	QP
10	17.393	8.08	10.87	18.95	50.00	31.05	Average
11	26.465	9.16	10.87	20.03	60.00	39.97	QP
12	26.465	2.68	10.87	13.55	50.00	36.45	Average

Project No.: 2402Y98932E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2SUO-1
Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.152	37.54	10.85	48.39	65.86	17.47	QP
2	0.152	30.01	10.85	40.86	55.86	15.00	Average
3	0.178	36.11	10.85	46.96	64.60	17.64	QP
4	0.178	30.49	10.85	41.34	54.60	13.26	Average
5	0.197	34.10	10.85	44.95	63.73	18.78	QP
6	0.197	28.46	10.85	39.31	53.73	14.42	Average
7	0.221	31.64	10.83	42.47	62.78	20.31	QP
8	0.221	25.33	10.83	36.16	52.78	16.62	Average
9	17.429	18.18	10.87	29.05	60.00	30.95	QP
10	17.429	9.23	10.87	20.10	50.00	29.90	Average
11	25.853	10.81	10.93	21.74	60.00	38.26	QP
12	25.853	4.09	10.93	15.02	50.00	34.98	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	2SUO-1	Test Date:	2024/12/14~2024/12/16
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	20.2~21.4	Relative Humidity: (%)	46~47	ATM Pressure: (kPa)	102~102.5

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	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	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:

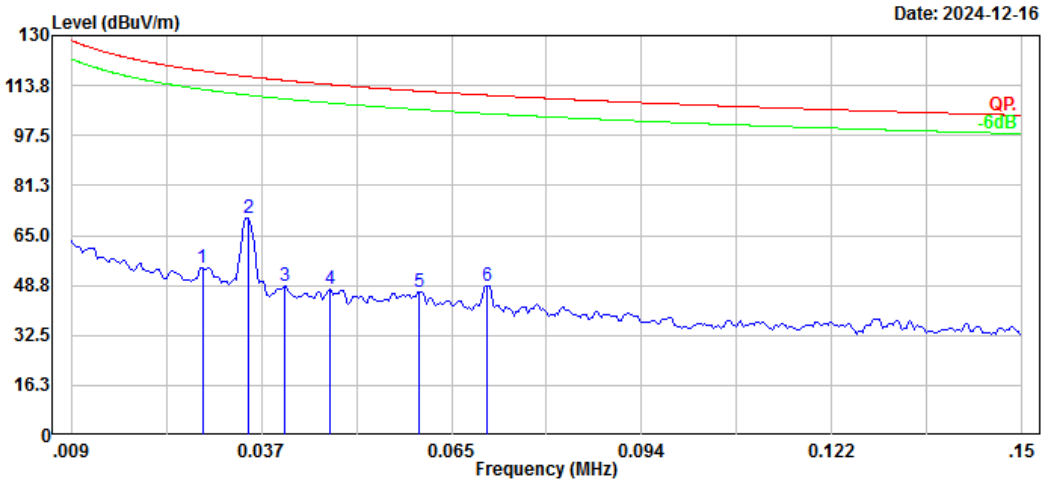
Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

9kHz~30MHz

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

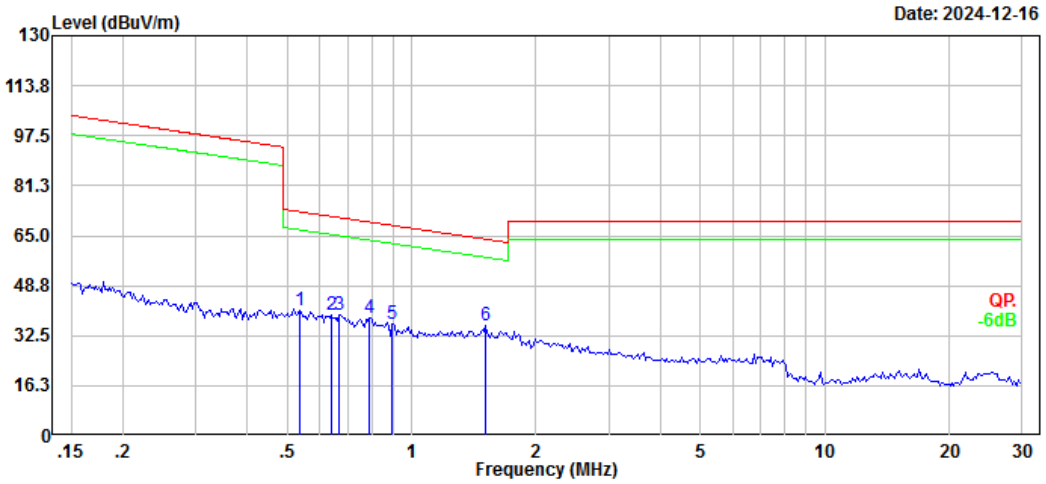
BLE: 1M bps High channel was tested

Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Parallel Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:300Hz VBW:1kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.028	6.68	47.93	54.61	118.52	63.91	Peak
2	0.035	23.93	46.62	70.55	116.67	46.12	Peak
3	0.041	2.89	45.67	48.56	115.44	66.88	Peak
4	0.047	2.96	44.50	47.46	114.10	66.64	Peak
5	0.061	4.34	42.24	46.58	111.95	65.37	Peak
6	0.071	8.29	40.46	48.75	110.61	61.86	Peak

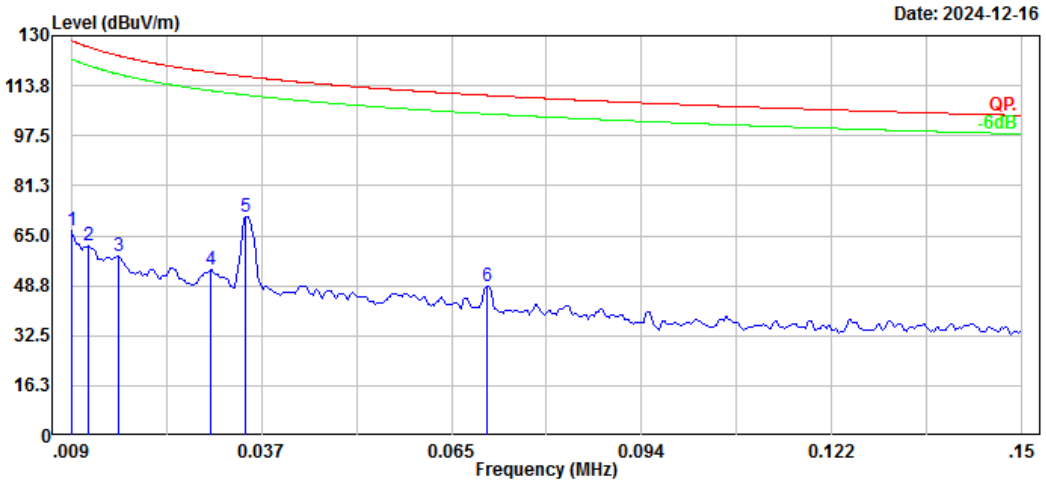
Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Parallel Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:10kHz VBW:30kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.535	17.74	23.16	40.90	73.02	32.12	Peak
2	0.641	17.17	22.06	39.23	71.42	32.19	Peak
3	0.668	17.41	21.78	39.19	71.05	31.86	Peak
4	0.792	17.52	20.63	38.15	69.54	31.39	Peak
5	0.899	17.74	18.58	36.32	68.42	32.10	Peak
6	1.511	21.35	14.29	35.64	63.81	28.17	Peak

Zigbee: High channel was tested

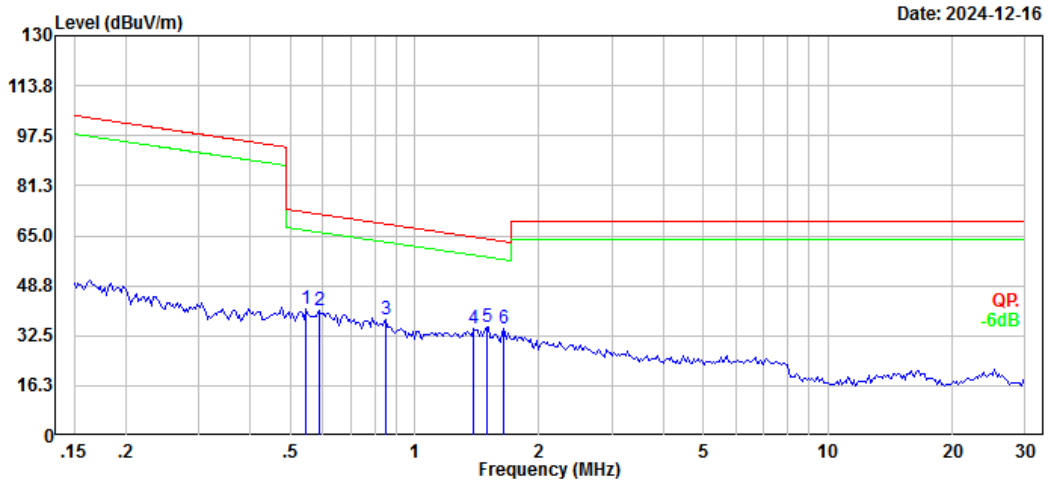
Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Parallel Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:300Hz VBW:1kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.009	13.55	53.24	66.79	128.52	61.73	Peak
2	0.012	9.18	52.42	61.60	126.36	64.76	Peak
3	0.016	7.20	51.15	58.35	123.50	65.15	Peak
4	0.030	6.34	47.65	53.99	118.18	64.19	Peak
5	0.035	24.50	46.67	71.17	116.74	45.57	Peak
6	0.071	8.01	40.46	48.47	110.61	62.14	Peak

Project No.: 2402Y98932E-RF
Polarization: Parallel
Test Mode: Transmitting
Note:
RBW:10kHz VBW:30kHz

Serial No.: 2SUO-1
Tester: Zoo Zou

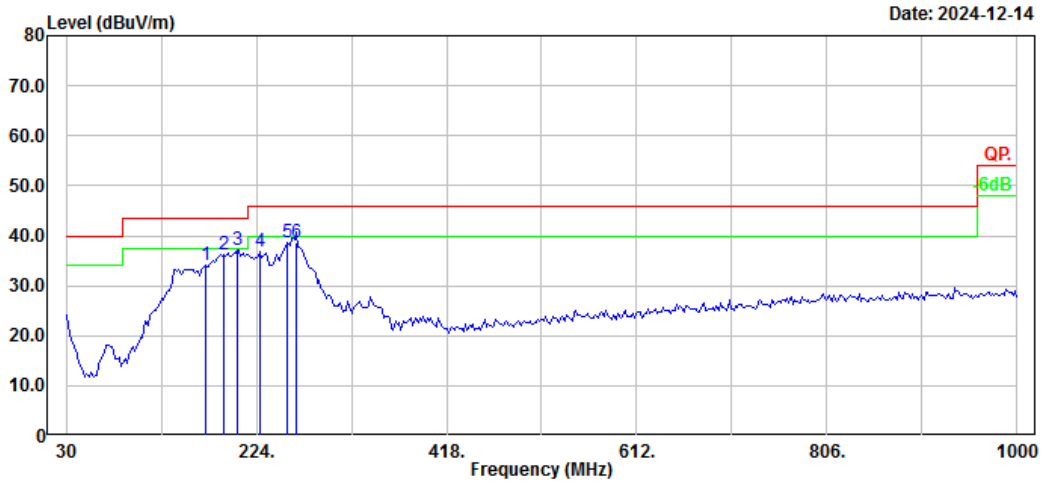


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.546	18.38	23.03	41.41	72.83	31.42	Peak
2	0.589	18.35	22.58	40.93	72.18	31.25	Peak
3	0.853	18.16	19.50	37.66	68.89	31.23	Peak
4	1.388	19.83	14.83	34.66	64.56	29.90	Peak
5	1.495	21.05	14.36	35.41	63.91	28.50	Peak
6	1.645	20.89	13.70	34.59	63.06	28.47	Peak

30MHz-1GHz:

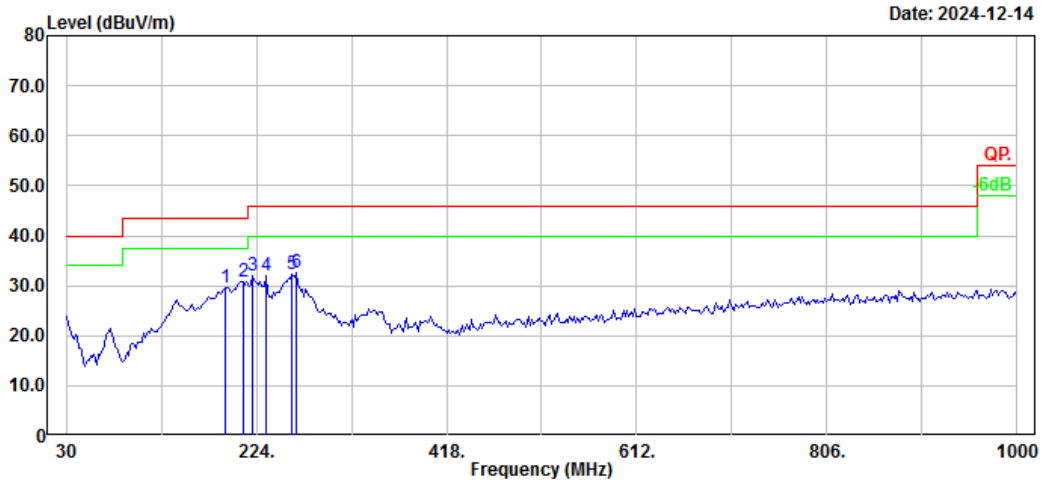
BLE: 1M bps High channel was tested

Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Horizontal Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:100kHz VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	171.62	45.93	-11.87	34.06	43.50	9.44	Peak
2	191.02	48.32	-12.06	36.26	43.50	7.24	Peak
3	204.60	49.24	-12.01	37.23	43.50	6.27	Peak
4	227.88	48.97	-12.28	36.69	46.00	9.31	Peak
5	255.04	49.78	-11.27	38.51	46.00	7.49	Peak
6	264.74	49.31	-10.63	38.68	46.00	7.32	QP

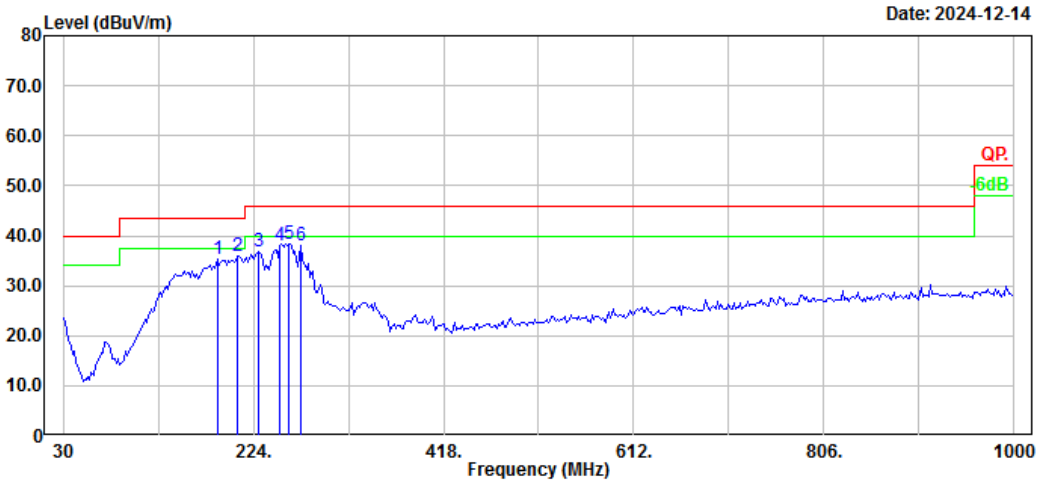
Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Vertical Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:100kHz VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	192.96	41.67	-11.94	29.73	43.50	13.77	Peak
2	210.42	43.42	-12.57	30.85	43.50	12.65	Peak
3	220.12	44.52	-12.50	32.02	46.00	13.98	Peak
4	233.70	44.07	-12.05	32.02	46.00	13.98	Peak
5	260.86	43.25	-11.04	32.21	46.00	13.79	Peak
6	264.74	43.35	-10.63	32.72	46.00	13.28	Peak

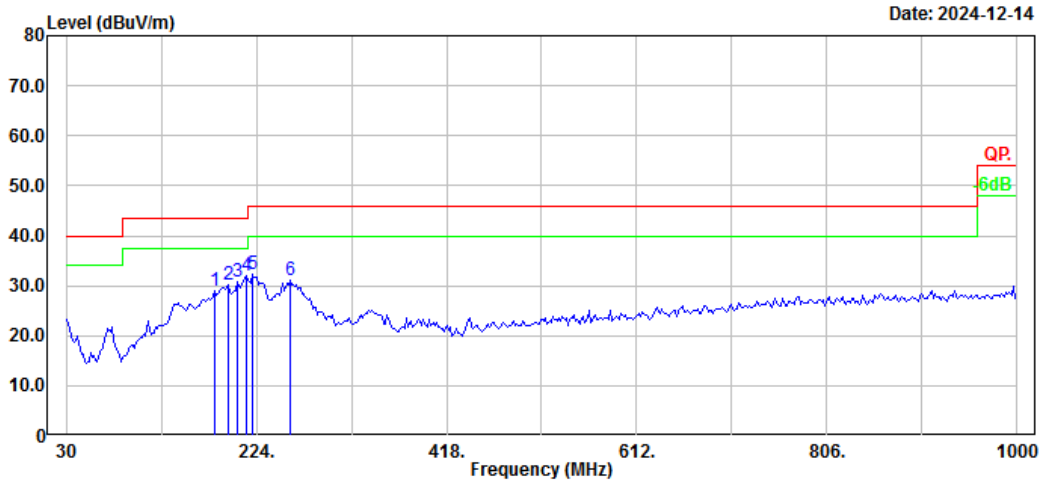
Zigbee: High channel was tested

Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Horizontal Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:100kHz VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	187.14	47.38	-12.19	35.19	43.50	8.31	Peak
2	208.48	48.35	-12.40	35.95	43.50	7.55	Peak
3	229.82	49.07	-12.23	36.84	46.00	9.16	Peak
4	251.16	49.35	-11.41	37.94	46.00	8.06	Peak
5	260.86	49.46	-11.04	38.42	46.00	7.58	Peak
6	272.50	47.93	-9.98	37.95	46.00	8.05	Peak

Project No.: 2402Y98932E-RF Serial No.: 2SUO-1
Polarization: Vertical Tester: Zoo Zou
Test Mode: Transmitting
Note:
RBW:100kHz VBW:300kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	181.32	41.19	-12.33	28.86	43.50	14.64	Peak
2	194.90	42.10	-11.83	30.27	43.50	13.23	Peak
3	204.60	42.67	-12.01	30.66	43.50	12.84	Peak
4	214.30	44.63	-12.54	32.09	43.50	11.41	Peak
5	220.12	44.70	-12.50	32.20	46.00	13.80	Peak
6	258.92	42.17	-11.15	31.02	46.00	14.98	Peak

2) 1-25GHz:

Serial Number:	2V0S-1	Test Date:	2024/12/17
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Colin Yang, Nat Zhou	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	19.5	Relative Humidity: (%)	30	ATM Pressure: (kPa)	102.2

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
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
Audix	Test Software	E3	191218 V9	N/A	N/A
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
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).*

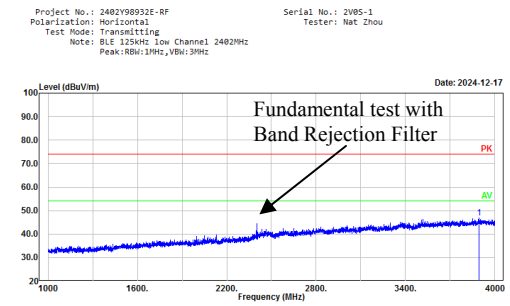
Test Data:

Please refer to the below plots.

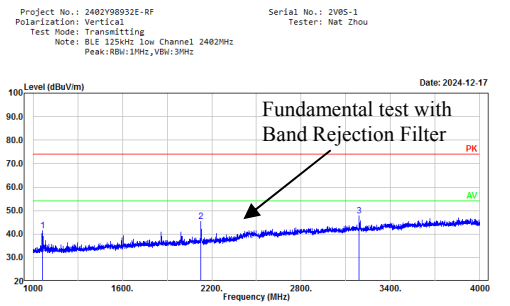
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

1-18GHz:
For BLE:

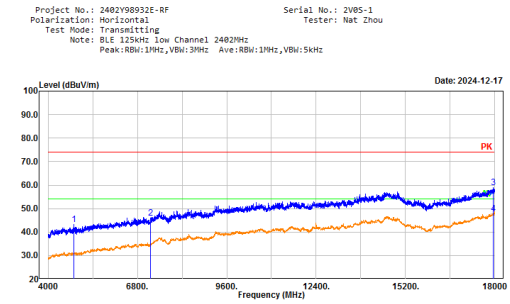
BLE 125k, Low Channel, 2402MHz, Horizontal	BLE 125k, Low Channel, 2402MHz, Vertical



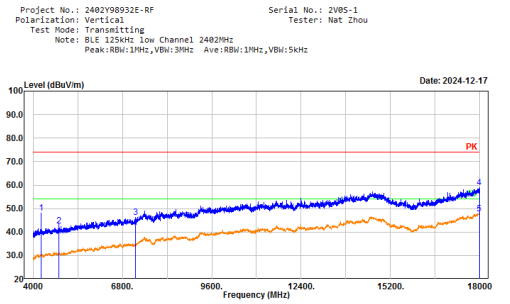
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3893.80	50.57	-3.67	46.90	74.00	27.10	Peak



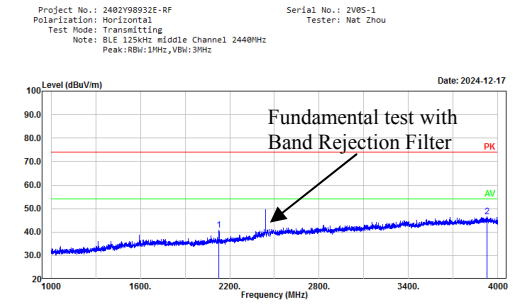
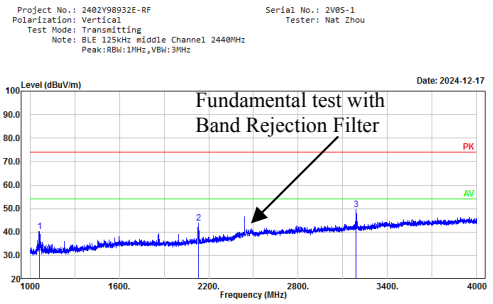
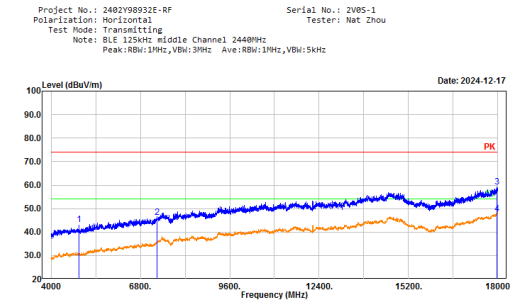
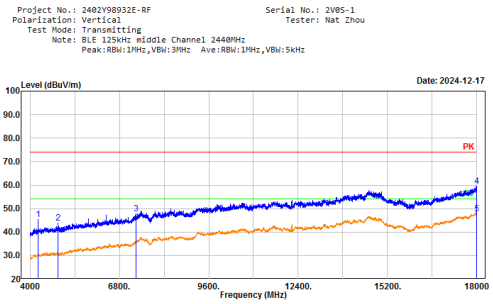
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1063.60	55.60	-14.27	41.33	74.00	32.67	Peak
2	2125.00	55.87	-10.54	45.33	74.00	28.67	Peak
3	3189.40	53.61	-5.93	47.68	74.00	26.32	Peak



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.00	51.88	-8.62	43.26	74.00	30.74	Peak
2	7206.00	49.90	-3.81	46.09	74.00	27.91	Peak
3	17941.20	47.78	11.03	58.81	74.00	15.19	Peak
4	17941.20	36.62	11.03	47.65	54.00	6.35	Average



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4249.20	57.15	-9.16	47.99	74.00	26.01	Peak
2	4804.00	51.21	-8.62	42.59	74.00	31.41	Peak
3	7206.00	50.06	-3.81	46.25	74.00	27.75	Peak
4	17980.40	47.75	11.30	59.05	74.00	14.95	Peak
5	17980.40	36.44	11.30	47.74	54.00	6.26	Average

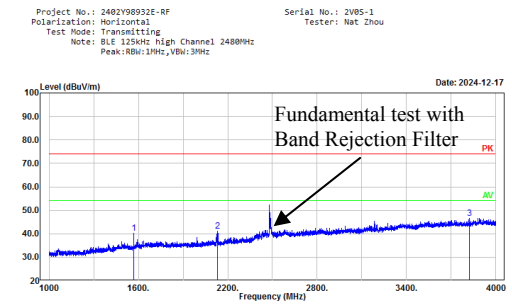
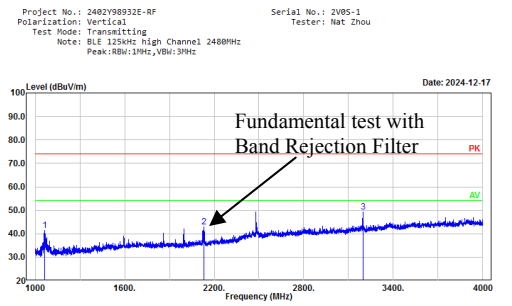
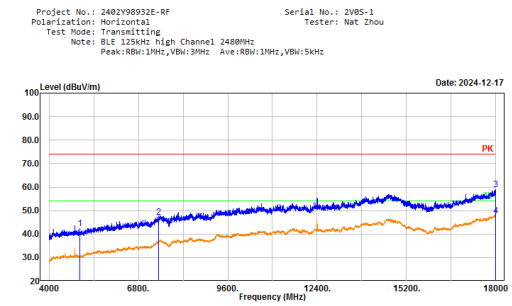
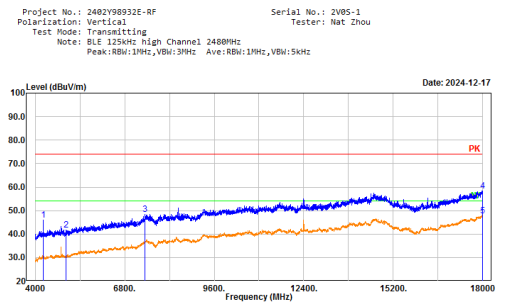
BLE 125k,Middle Channel, 2440MHz, Horizontal	BLE 125k,Middle Channel, 2440MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2128.00	51.38	-10.53	40.85	74.00	33.15	Peak
2	3925.00	50.17	-3.75	46.42	74.00	27.58	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1061.80	54.52	-14.27	40.25	74.00	33.75	Peak
2	2129.20	54.49	-10.53	43.96	74.00	30.04	Peak
3	3190.00	55.46	-5.93	49.53	74.00	24.47	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	51.67	-8.48	43.19	74.00	30.81	Peak
2	7320.00	49.50	-3.21	46.29	74.00	27.71	Peak
3	17969.20	48.06	11.22	59.28	74.00	14.72	Peak
4	17969.20	36.41	11.22	47.63	54.00	6.37	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4254.80	54.40	-9.14	45.26	74.00	28.74	Peak
2	4880.00	52.29	-8.48	43.81	74.00	30.19	Peak
3	7320.00	50.86	-3.21	47.65	74.00	26.35	Peak
4	17986.00	48.16	11.32	59.48	74.00	14.52	Peak
5	17986.00	36.47	11.32	47.79	54.00	6.21	Average

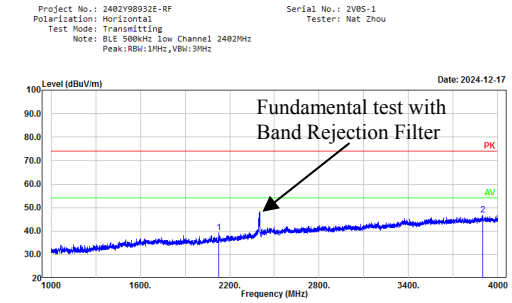
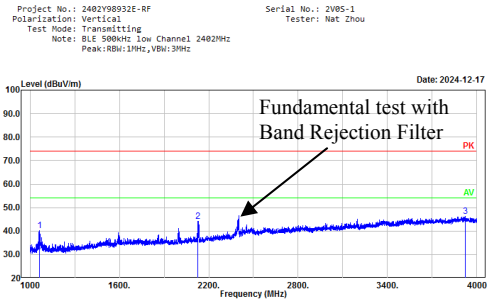
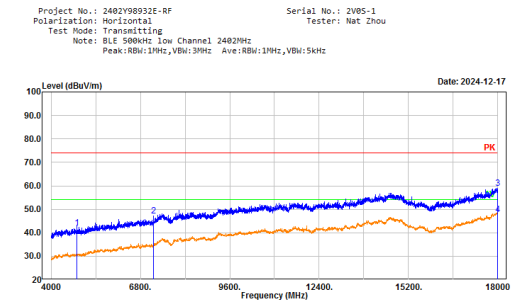
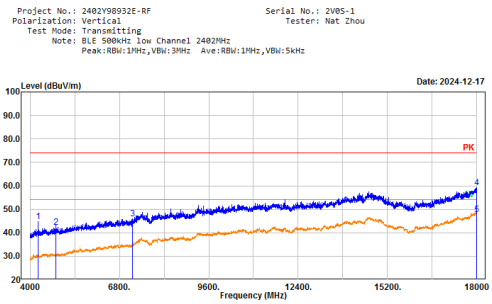
BLE 125k,High Channel, 2480MHz, Horizontal	BLE 125k, High Channel, 2480MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1567.60	52.94	-12.60	40.34	74.00	33.66	Peak
2	2132.80	51.65	-10.52	41.13	74.00	32.87	Peak
3	3821.80	50.73	-4.12	46.61	74.00	27.39	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1063.00	55.61	-14.27	41.34	74.00	32.66	Peak
2	2132.80	53.56	-10.52	43.04	74.00	30.96	Peak
3	3196.60	54.99	-5.83	49.16	74.00	24.84	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.77	-8.48	42.29	74.00	31.71	Peak
2	7440.00	49.93	-2.62	47.31	74.00	26.69	Peak
3	17997.20	47.47	11.38	58.85	74.00	15.15	Peak
4	17997.20	36.46	11.38	47.84	54.00	6.16	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4252.00	55.21	-9.16	46.05	74.00	27.95	Peak
2	4960.00	50.32	-8.48	41.84	74.00	32.16	Peak
3	7440.00	50.89	-2.62	48.27	74.00	25.73	Peak
4	17986.00	47.12	11.32	58.44	74.00	15.56	Peak
5	17986.00	36.36	11.32	47.68	54.00	6.32	Average

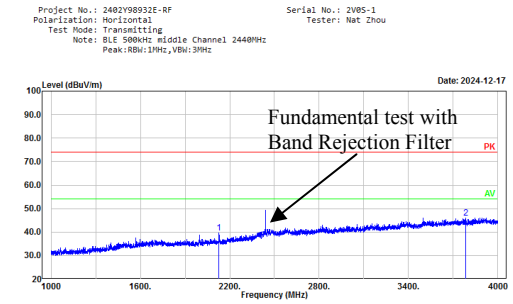
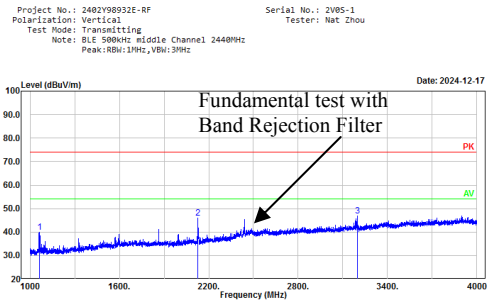
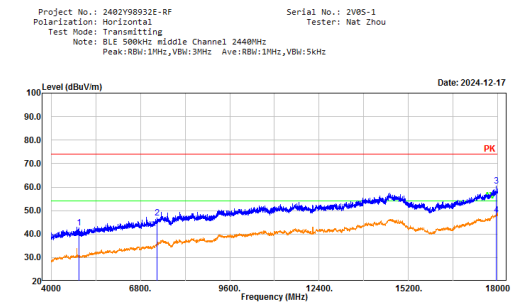
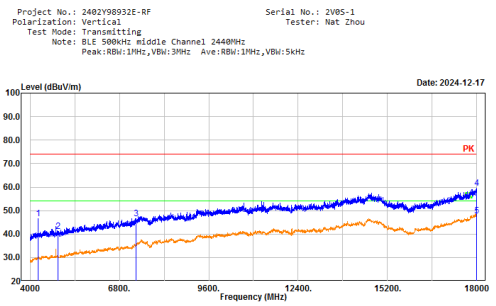
BLE 500k, Low Channel, 2402MHz, Horizontal	BLE 500k, Low Channel, 2402MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2126.20	49.91	-10.54	39.37	74.00	34.63	Peak
2	3899.80	50.37	-3.61	46.76	74.00	27.24	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1062.40	54.40	-14.27	40.13	74.00	33.87	Peak
2	2128.00	54.79	-10.53	44.26	74.00	29.74	Peak
3	3923.80	49.97	-3.75	46.22	74.00	27.78	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.00	50.71	-8.62	42.09	74.00	31.91	Peak
2	7206.00	51.01	-3.81	47.20	74.00	26.80	Peak
3	17994.40	47.61	11.37	58.98	74.00	15.02	Peak
4	17994.40	36.32	11.37	47.69	54.00	6.31	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4246.40	53.96	-9.16	44.80	74.00	29.20	Peak
2	4804.00	51.00	-8.62	42.38	74.00	31.62	Peak
3	7206.00	49.79	-3.81	45.98	74.00	28.02	Peak
4	17997.20	47.90	11.38	59.28	74.00	14.72	Peak
5	17997.20	36.39	11.38	47.77	54.00	6.23	Average

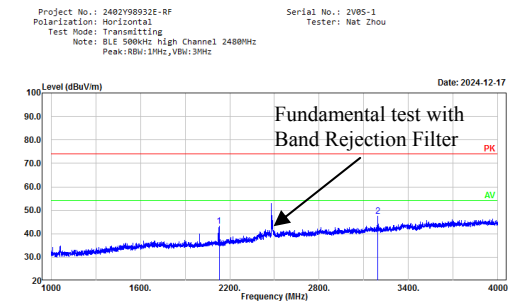
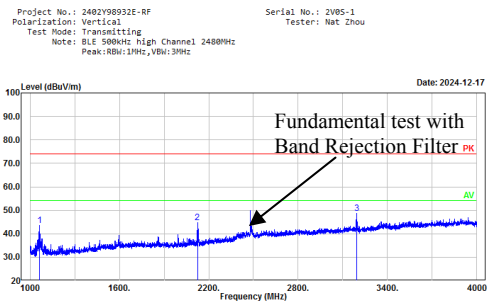
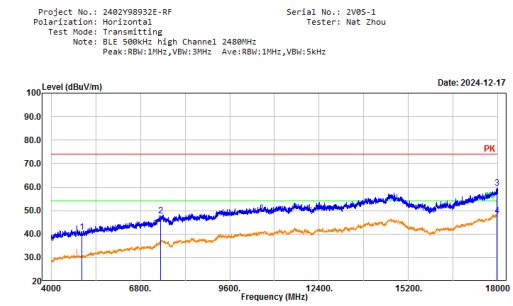
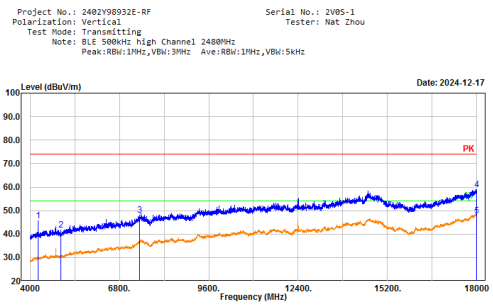
BLE 500k, Middle Channel, 2440MHz, Horizontal	BLE 500k, Middle Channel, 2440MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2128.00	50.27	-10.53	39.74	74.00	34.26	Peak
2	3782.20	50.26	-4.27	45.99	74.00	28.01	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1062.40	54.08	-14.27	39.81	74.00	34.19	Peak
2	2127.40	56.53	-10.53	46.00	74.00	28.00	Peak
3	3199.60	52.79	-5.78	47.01	74.00	26.99	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	51.09	-8.48	42.61	74.00	31.39	Peak
2	7320.00	50.22	-3.21	47.01	74.00	26.99	Peak
3	17938.40	49.38	11.01	60.39	74.00	13.61	Peak
4	17938.40	36.96	11.01	47.97	54.00	6.03	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4257.60	55.81	-9.14	46.67	74.00	27.33	Peak
2	4880.00	49.76	-8.48	41.28	74.00	32.72	Peak
3	7320.00	49.77	-3.21	46.56	74.00	27.44	Peak
4	17994.40	48.17	11.37	59.54	74.00	14.46	Peak
5	17994.40	36.39	11.37	47.76	54.00	6.24	Average

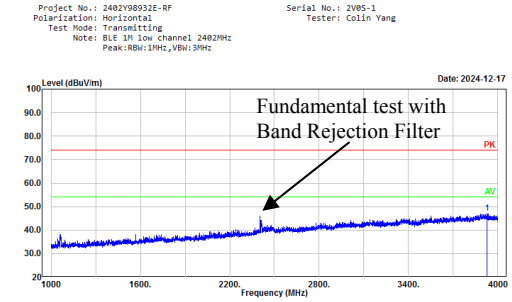
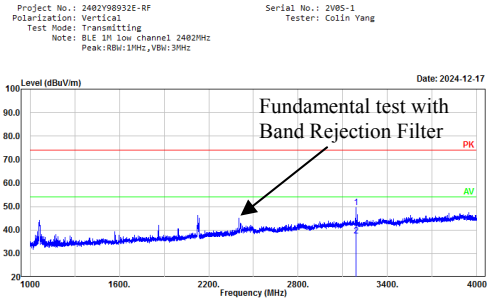
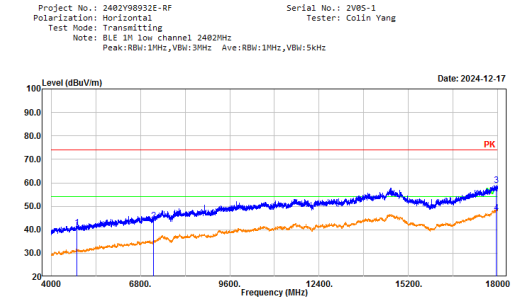
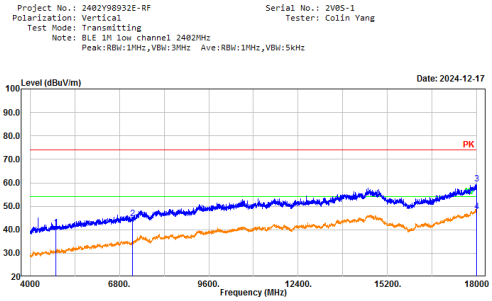
BLE 500k, High Channel, 2480MHz, Horizontal	BLE 500k, High Channel, 2480MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2128.60	53.67	-10.53	43.14	74.00	30.86	Peak
2	3195.40	53.24	-5.85	47.39	74.00	26.61	Peak

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1063.60	57.71	-14.27	43.44	74.00	30.56	Peak
2	2123.80	55.35	-10.54	44.81	74.00	29.19	Peak
3	3191.20	54.53	-5.90	48.63	74.00	25.37	Peak

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4960.00	49.40	-8.48	40.92	74.00	33.08	Peak
2	7440.00	50.33	-2.62	47.71	74.00	26.29	Peak
3	17974.80	48.38	11.25	59.63	74.00	14.37	Peak
4	17974.80	36.53	11.25	47.78	54.00	6.22	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4254.80	54.79	-9.14	45.65	74.00	28.35	Peak
2	4960.00	50.12	-8.48	41.64	74.00	32.36	Peak
3	7440.00	50.75	-2.62	48.13	74.00	25.87	Peak
4	17988.80	47.60	11.33	58.93	74.00	15.07	Peak
5	17988.80	36.54	11.33	47.87	54.00	6.13	Average

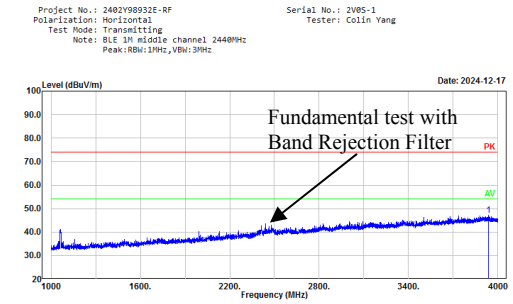
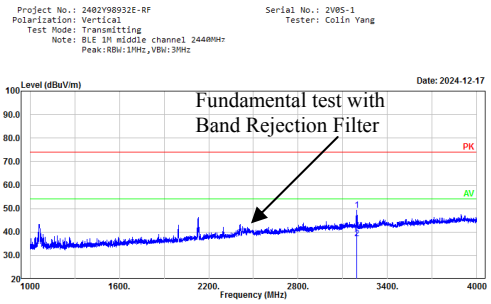
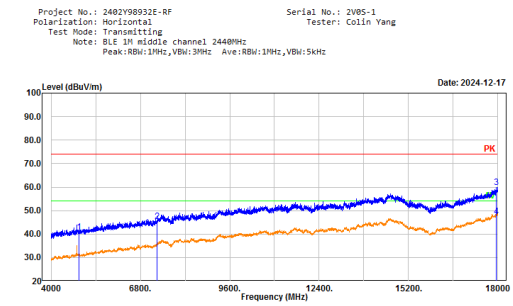
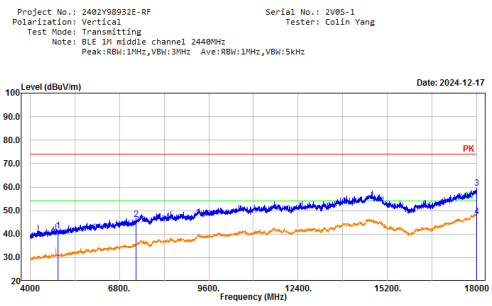
BLE 1M, Low Channel, 2402MHz, Horizontal	BLE 1M, Low Channel, 2402MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3928.60	50.91	-3.78	47.13	74.00	26.87	Peak

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3190.00	55.65	-5.93	49.72	74.00	24.28	Peak
2	3190.00	43.45	-5.93	37.52	54.00	16.48	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.00	49.52	-8.62	40.90	74.00	33.10	Peak
2	7206.00	47.75	-3.81	43.94	74.00	30.06	Peak
3	17944.00	48.01	11.04	59.05	74.00	14.95	Peak
4	17944.00	36.13	11.04	47.17	54.00	6.83	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.00	49.59	-8.62	40.97	74.00	33.03	Peak
2	7206.00	48.47	-3.81	44.66	74.00	29.34	Peak
3	17994.40	48.21	11.37	59.58	74.00	14.42	Peak
4	17994.40	36.33	11.37	47.70	54.00	6.30	Average

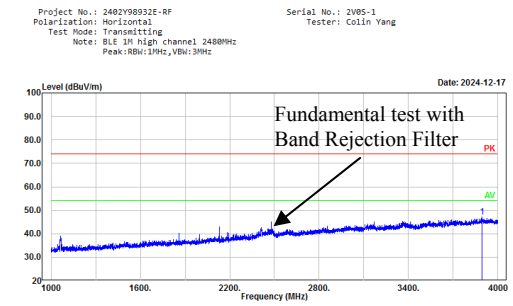
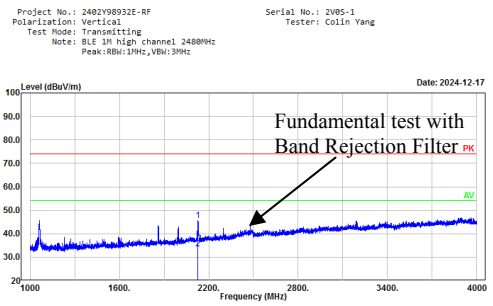
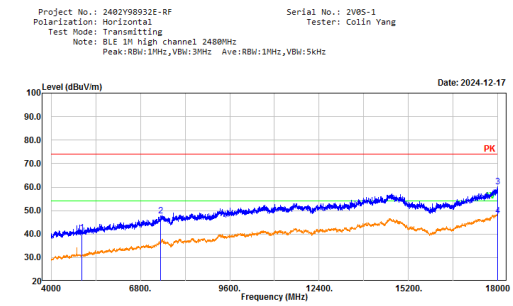
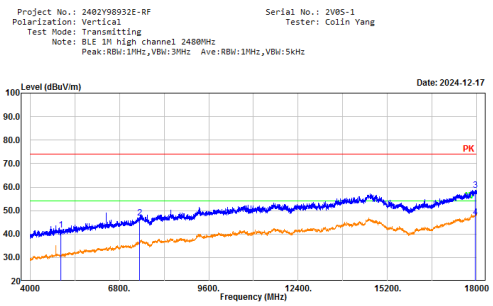
BLE 1M, Middle Channel, 2440MHz, Horizontal	BLE 1M, Middle Channel, 2440MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3937.60	50.88	-3.70	47.18	74.00	26.82	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3191.20	55.07	-5.90	49.17	74.00	24.83	Peak
2	3191.20	43.12	-5.90	37.22	54.00	16.78	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	49.39	-8.48	40.91	74.00	33.09	Peak
2	7320.00	48.44	-3.21	45.23	74.00	28.77	Peak
3	17944.00	48.75	11.04	59.79	74.00	14.21	Peak
4	17944.00	36.55	11.04	47.59	54.00	6.41	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	50.06	-8.48	41.58	74.00	32.42	Peak
2	7320.00	49.58	-3.21	46.37	74.00	27.63	Peak
3	17997.20	48.09	11.38	59.47	74.00	14.53	Peak
4	17997.20	36.18	11.38	47.56	54.00	6.44	Average

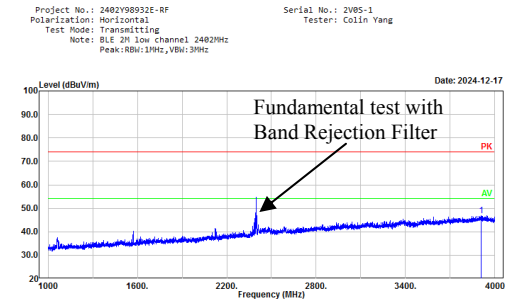
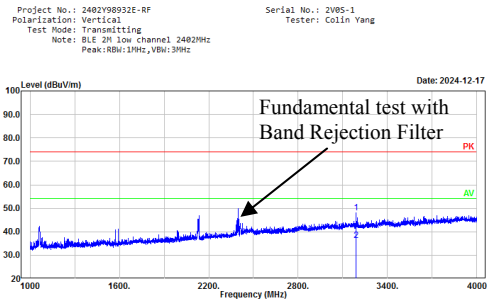
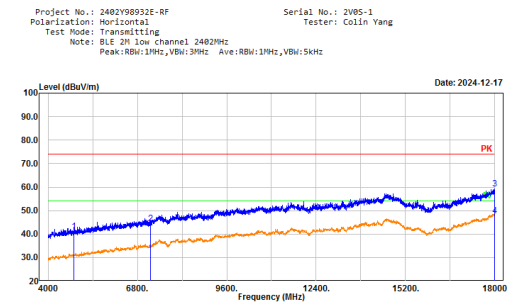
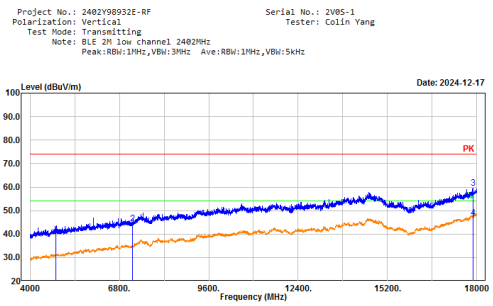
BLE 1M, High Channel, 2480MHz, Horizontal	BLE 1M, High Channel, 2480MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3893.20	50.79	-3.68	47.11	74.00	26.89	Peak

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2128.00	56.30	-10.53	45.77	74.00	28.23	Peak
2	2128.00	44.16	-10.53	33.63	54.00	20.37	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4960.00	49.09	-8.48	40.61	74.00	33.39	Peak
2	7440.00	50.28	-2.62	47.66	74.00	26.34	Peak
3	17988.80	48.82	11.33	60.15	74.00	13.85	Peak
4	17988.80	36.37	11.33	47.70	54.00	6.30	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4960.00	50.32	-8.48	41.84	74.00	32.16	Peak
2	7440.00	49.49	-2.62	46.87	74.00	27.13	Peak
3	17938.40	47.68	11.01	58.69	74.00	15.31	Peak
4	17938.40	36.22	11.01	47.23	54.00	6.77	Average

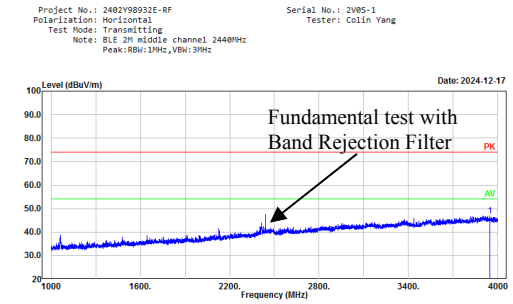
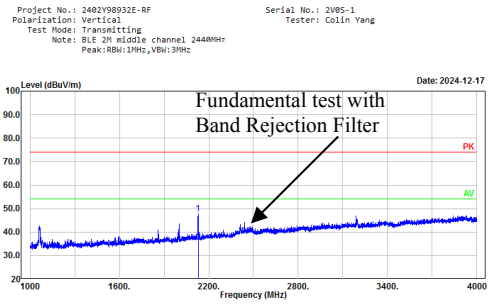
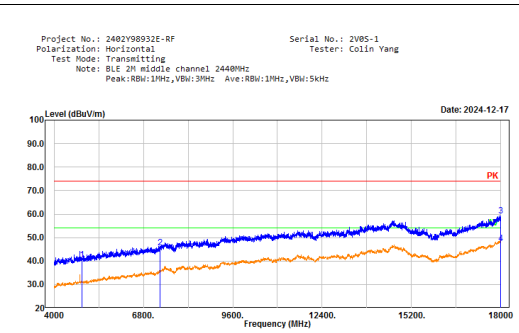
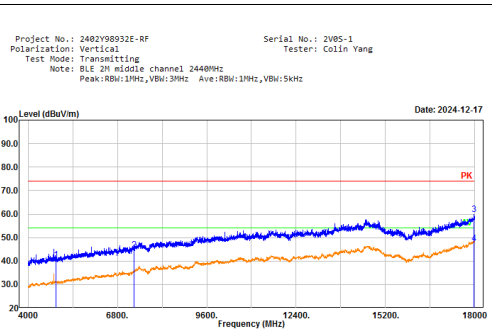
BLE 2M, Low Channel, 2402MHz, Horizontal	BLE 2M, Low Channel, 2402MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3907.00	50.59	-3.66	46.93	74.00	27.07	Peak

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3187.60	54.02	-5.96	48.06	74.00	25.94	Peak
2	3187.60	42.16	-5.96	36.20	54.00	17.80	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.00	49.78	-8.62	41.16	74.00	32.84	Peak
2	7206.00	48.32	-3.81	44.51	74.00	29.49	Peak
3	17991.60	47.81	11.35	59.16	74.00	14.84	Peak
4	17991.60	36.32	11.35	47.67	54.00	6.33	Average

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.00	48.58	-8.62	39.96	74.00	34.04	Peak
2	7206.00	48.26	-3.81	44.45	74.00	29.55	Peak
3	17879.60	48.86	10.62	59.48	74.00	14.52	Peak
4	17879.60	36.34	10.62	46.96	54.00	7.04	Average

BLE 2M, Middle Channel, 2440MHz, Horizontal	BLE 2M, Middle Channel, 2440MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3945.40	50.48	-3.62	46.86	74.00	27.14	Peak

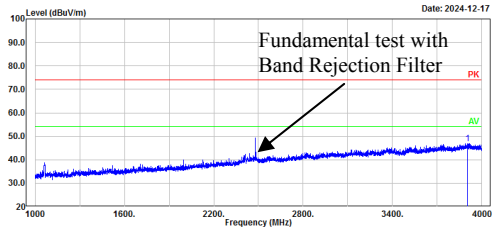
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2128.60	58.34	-10.53	47.81	74.00	26.19	Peak
2	2128.60	46.19	-10.53	35.66	54.00	18.34	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	48.92	-8.48	40.44	74.00	33.56	Peak
2	7320.00	48.79	-3.21	45.58	74.00	28.42	Peak
3	17983.20	48.05	11.32	59.37	74.00	14.63	Peak
4	17983.20	36.19	11.32	47.51	54.00	6.49	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	49.07	-8.48	40.59	74.00	33.41	Peak
2	7320.00	48.09	-3.21	44.88	74.00	29.12	Peak
3	17960.80	48.63	11.16	59.79	74.00	14.21	Peak
4	17960.80	36.26	11.16	47.42	54.00	6.58	Average

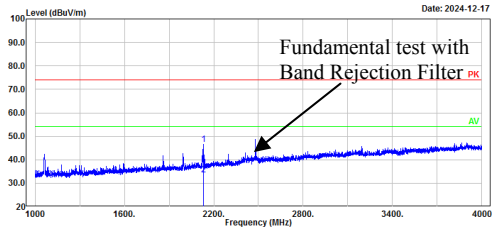
BLE 2M, High Channel, 2480MHz, Horizontal	BLE 2M, High Channel, 2480MHz, Vertical

Project No.: 2402Y98932E-RF Serial No.: 2V05-1
Polarization: Horizontal Tester: Colin Yang
Test Mode: Transmitting
Note: BLE 2M high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



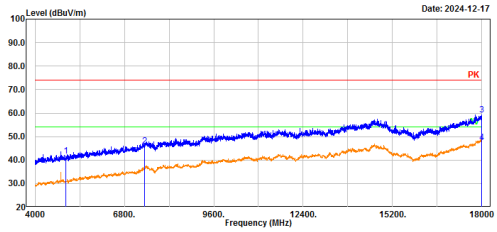
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	3904.00	50.64	-3.64	47.00	74.00	27.00	Peak

Project No.: 2402Y98932E-RF Serial No.: 2V05-1
Polarization: Vertical Tester: Colin Yang
Test Mode: Transmitting
Note: BLE 2M high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



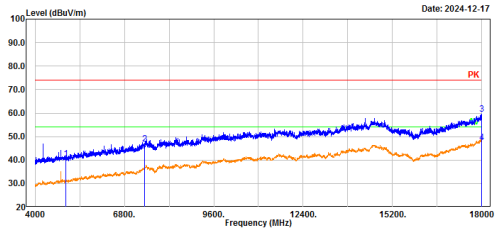
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.20	57.00	-10.53	46.47	74.00	27.53	Peak
2	2129.20	44.24	-10.53	33.71	54.00	20.29	Average

Project No.: 2402Y98932E-RF Serial No.: 2V05-1
Polarization: Horizontal Tester: Colin Yang
Test Mode: Transmitting
Note: BLE 2M high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



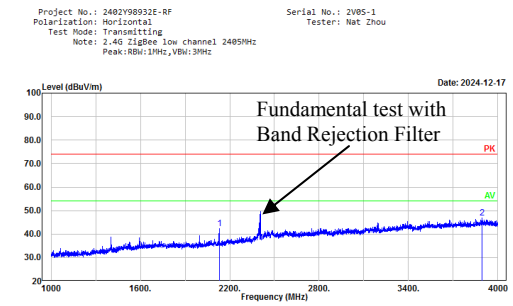
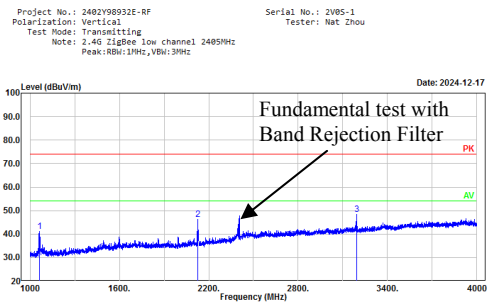
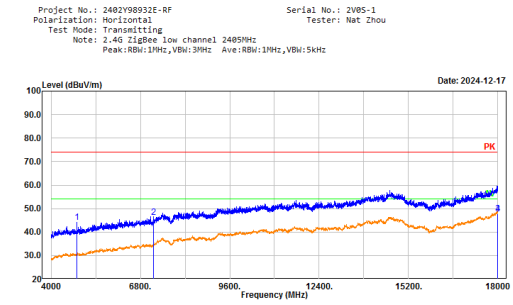
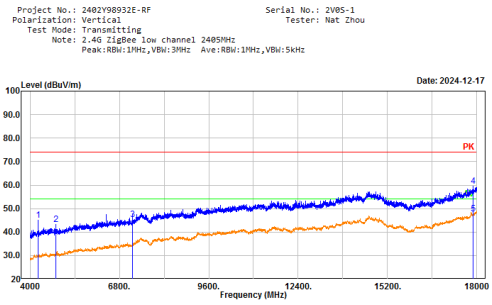
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.10	-8.48	41.62	74.00	32.38	Peak
2	7440.00	48.57	-2.62	45.95	74.00	28.05	Peak
3	17997.20	47.99	11.38	59.37	74.00	14.63	Peak
4	17997.20	36.18	11.38	47.56	54.00	6.44	Average

Project No.: 2402Y98932E-RF Serial No.: 2V05-1
Polarization: Vertical Tester: Colin Yang
Test Mode: Transmitting
Note: BLE 2M 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	49.01	-8.48	40.53	74.00	33.47	Peak
2	7440.00	49.40	-2.62	46.78	74.00	27.22	Peak
3	17988.80	48.08	11.33	59.41	74.00	14.59	Peak
4	17988.80	36.04	11.33	47.37	54.00	6.63	Average

Zigbee:

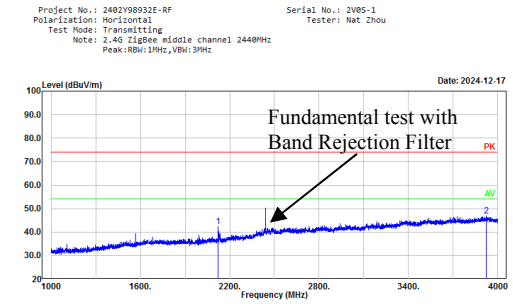
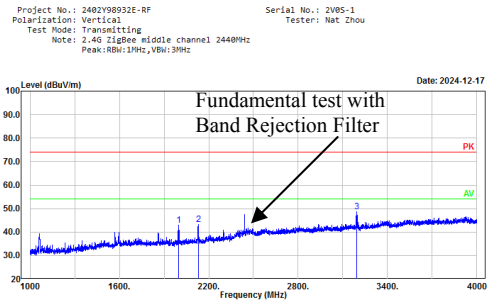
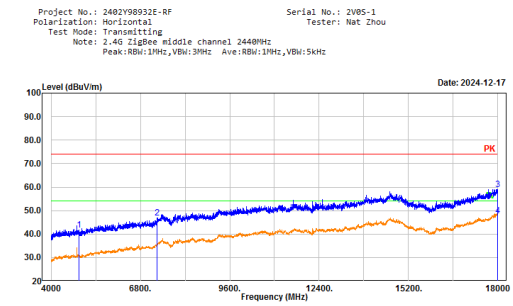
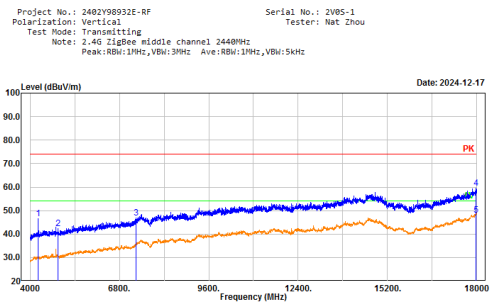
Zigbee, Low Channel, 2405MHz, Horizontal	Zigbee, Low Channel, 2405MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.80	52.90	-10.52	42.38	74.00	31.62	Peak
2	3894.40	50.47	-3.65	46.82	74.00	27.18	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1062.40	55.40	-14.27	41.13	74.00	32.87	Peak
2	2128.00	56.69	-10.53	46.16	74.00	27.84	Peak
3	3193.00	54.15	-5.87	48.28	74.00	25.72	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4810.00	52.69	-8.59	44.10	74.00	29.90	Peak
2	7215.00	49.89	-3.75	46.14	74.00	27.86	Peak
3	17992.00	36.46	11.35	47.81	74.00	26.19	Peak
4	17992.00	36.43	11.35	47.78	54.00	6.22	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4249.20	54.24	-9.16	45.08	74.00	28.92	Peak
2	4810.00	51.82	-8.59	43.23	74.00	30.77	Peak
3	7215.00	49.04	-3.75	45.29	74.00	28.71	Peak
4	17885.20	48.85	10.66	59.51	74.00	14.49	Peak
5	17885.20	37.13	10.66	47.79	54.00	6.21	Average

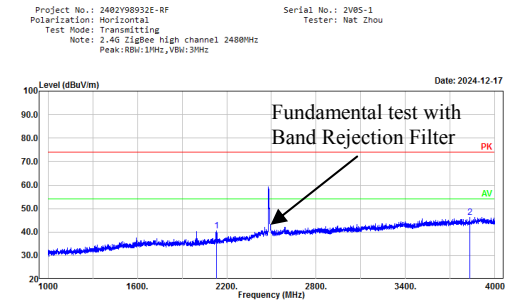
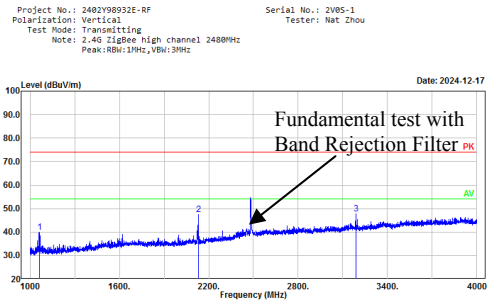
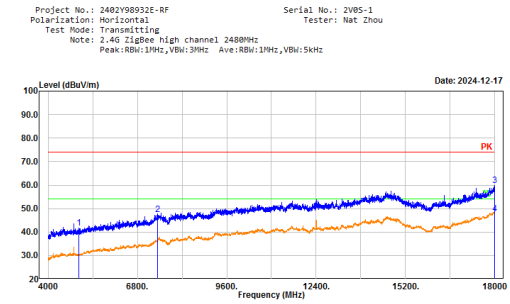
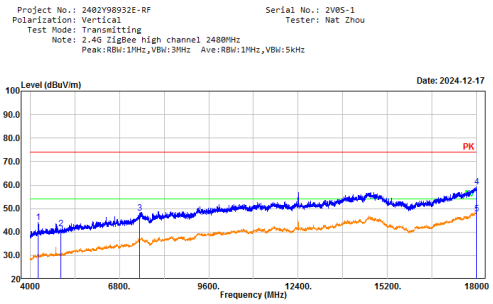
Zigbee, Middle Channel, 2440MHz, Horizontal	Zigbee, Middle Channel, 2440MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2123.20	52.94	-10.54	42.40	74.00	31.60	Peak
2	3923.20	50.49	-3.75	46.74	74.00	27.26	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1996.00	53.99	-11.19	42.80	74.00	31.20	Peak
2	2129.80	53.80	-10.52	43.28	74.00	30.72	Peak
3	3193.60	54.40	-5.86	48.54	74.00	25.46	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4880.00	50.15	-8.48	41.67	74.00	32.33	Peak
2	7320.00	50.20	-3.21	46.99	74.00	27.01	Peak
3	17991.60	47.74	11.35	59.09	74.00	14.91	Peak
4	17991.60	36.44	11.35	47.79	54.00	6.21	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4246.40	55.80	-9.16	46.64	74.00	27.36	Peak
2	4880.00	50.74	-8.48	42.26	74.00	31.74	Peak
3	7320.00	50.18	-3.21	46.97	74.00	27.03	Peak
4	17969.20	48.30	11.22	59.52	74.00	14.48	Peak
5	17969.20	36.74	11.22	47.96	54.00	6.04	Average

Zigbee, High Channel, 2480MHz, Horizontal	Zigbee, High Channel, 2480MHz, Vertical
	
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2129.20	51.01	-10.53	40.48	74.00	33.52	Peak
2	3831.40	50.26	-3.99	46.27	74.00	27.73	Peak

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1062.40	54.27	-14.27	40.00	74.00	34.00	Peak
2	2130.40	58.13	-10.52	47.61	74.00	26.39	Peak
3	3187.60	53.62	-5.96	47.66	74.00	26.34	Peak

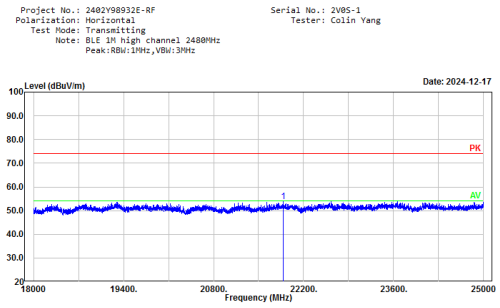
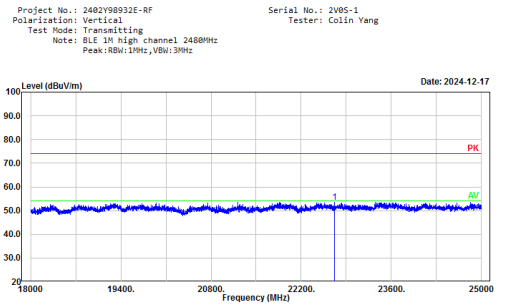
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.00	50.36	-8.48	41.88	74.00	32.12	Peak
2	7440.00	50.24	-2.62	47.62	74.00	26.38	Peak
3	17994.40	48.39	11.37	59.76	74.00	14.24	Peak
4	17994.40	36.52	11.37	47.89	54.00	6.11	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4263.20	53.28	-9.13	44.15	74.00	29.85	Peak
2	4960.00	49.96	-8.48	41.48	74.00	32.52	Peak
3	7440.00	50.57	-2.62	47.95	74.00	26.05	Peak
4	17993.00	47.89	11.37	59.26	74.00	14.74	Peak
5	17993.00	36.30	11.37	47.67	54.00	6.33	Average

18-25GHz:

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

For BLE:

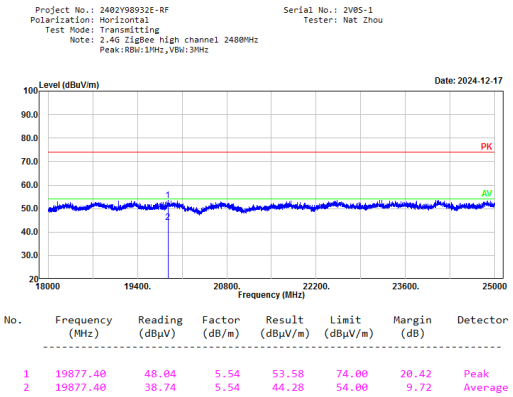
BLE 1M, High Channel, 2480MHz, Horizontal	BLE 1M, High Channel, 2480MHz, Vertical
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	21880.80	46.39	7.36	53.75	74.00	20.25	Peak

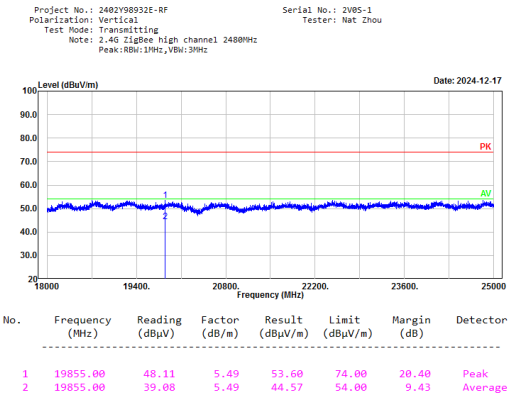
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	22716.60	45.36	8.21	53.57	74.00	20.43	Peak

For Zigbee:

Zigbee, High Channel, 2480MHz, Horizontal	Zigbee, High Channel, 2480MHz, Vertical

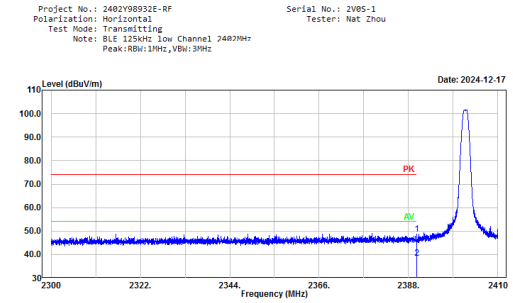
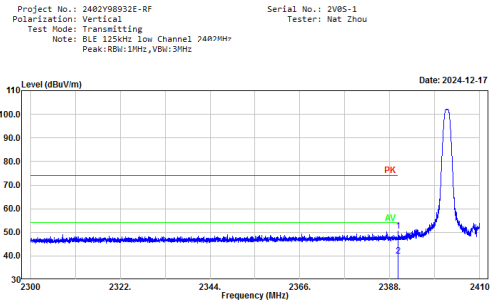
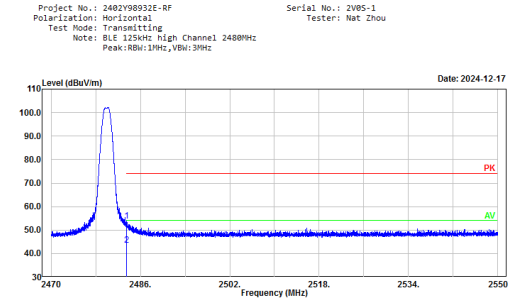
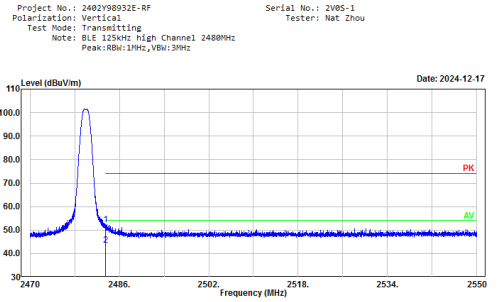


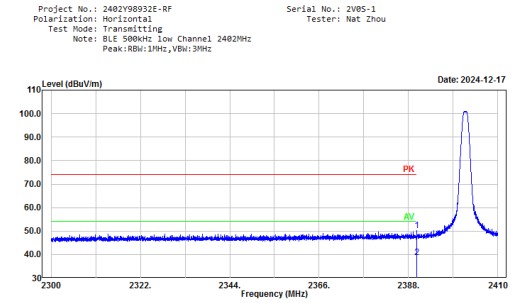
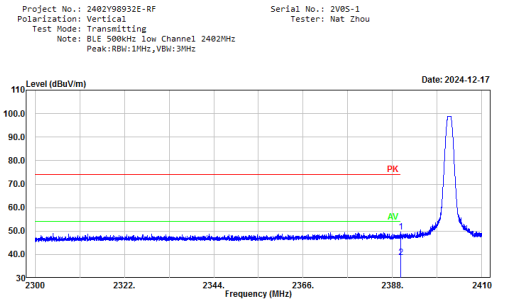
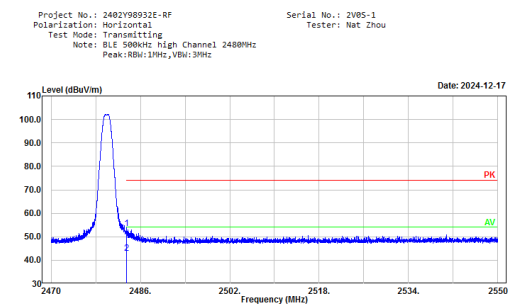
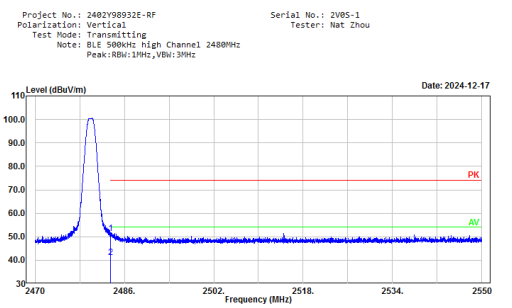
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	19877.40	48.04	5.54	53.58	74.00	20.42	Peak
2	19877.40	38.74	5.54	44.28	54.00	9.72	Average



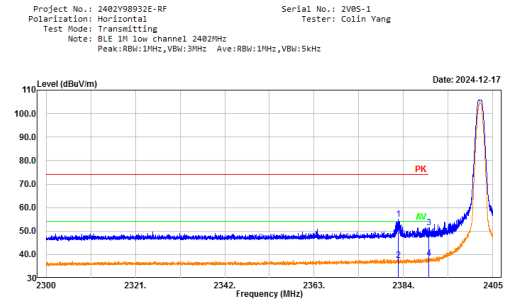
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	19855.00	48.11	5.49	53.60	74.00	20.40	Peak
2	19855.00	39.08	5.49	44.57	54.00	9.43	Average

Bandedge:

BLE 125k, Low Channel, Bandedge, Horizontal	BLE 125k, Low Channel, Bandedge, Vertical
	
No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 49.19 -0.49 48.70 74.00 25.30 Peak 2 2390.00 38.98 -0.49 38.49 54.00 15.51 Average	No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 51.03 -0.49 50.54 74.00 23.46 Peak 2 2390.00 40.32 -0.49 39.83 54.00 14.17 Average
BLE 125k, High Channel, Bandedge, Horizontal	**BLE 125k, High Channel, Bandedge, Vertical**
	
No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 53.90 -0.05 53.85 74.00 20.15 Peak 2 2483.50 43.49 -0.05 43.44 54.00 10.56 Average	No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 52.41 -0.05 52.36 74.00 21.64 Peak 2 2483.50 43.74 -0.05 43.69 54.00 10.31 Average

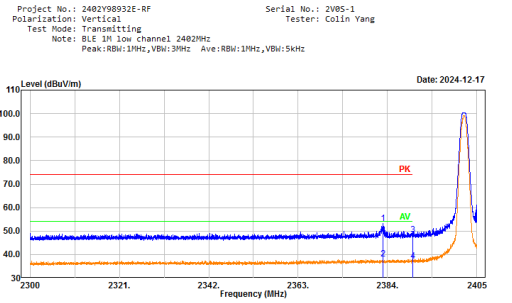
BLE 500k, Low Channel, Bandedge, Horizontal	BLE 500k, Low Channel, Bandedge, Vertical
 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 50.66 -0.49 50.17 74.00 23.83 Peak 2 2390.00 39.16 -0.49 38.67 54.00 15.33 Average	 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2390.00 50.25 -0.49 49.76 74.00 24.24 Peak 2 2390.00 39.26 -0.49 38.77 54.00 15.23 Average
BLE 500k, High Channel, Bandedge, Horizontal	**BLE 500k, High Channel, Bandedge, Vertical**
 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 53.67 -0.05 53.62 74.00 20.38 Peak 2 2483.50 43.15 -0.05 43.10 54.00 10.90 Average	 No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 2483.50 51.52 -0.05 51.47 74.00 22.53 Peak 2 2483.50 41.26 -0.05 41.21 54.00 12.79 Average

BLE 1M, Low Channel, Bandedge, Horizontal



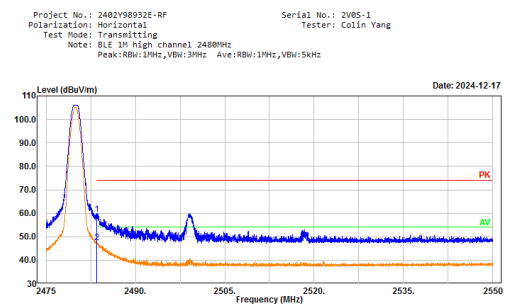
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2382.74	55.57	-0.53	55.04	74.00	18.96	Peak
2	2382.74	38.22	-0.53	37.69	54.00	16.31	Average
3	2390.00	51.87	-0.49	51.38	74.00	22.62	Peak
4	2390.00	38.84	-0.49	38.35	54.00	15.65	Average

BLE 1M, Low Channel, Bandedge, Vertical



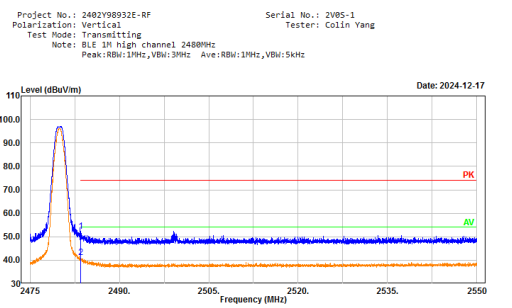
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2382.89	53.86	-0.53	53.33	74.00	20.67	Peak
2	2382.89	38.65	-0.53	38.12	54.00	15.88	Average
3	2390.00	48.85	-0.49	48.36	74.00	25.64	Peak
4	2390.00	37.74	-0.49	37.25	54.00	16.75	Average

BLE 1M, High Channel, Bandedge, Horizontal

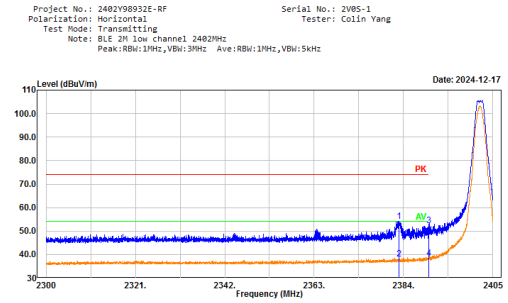
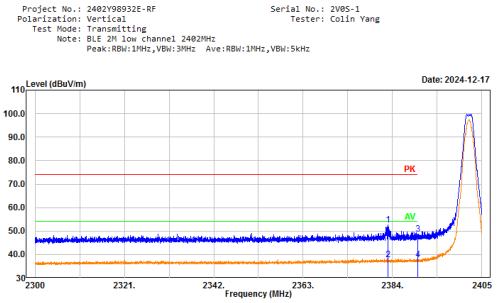
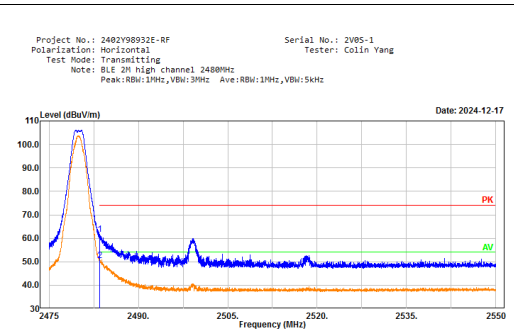
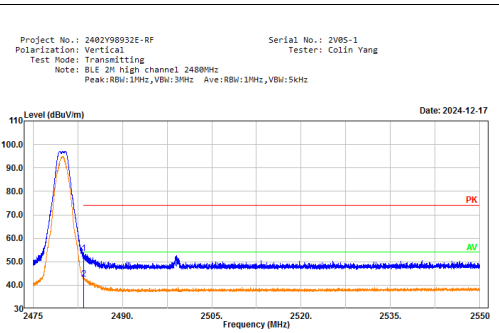


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2483.50	59.68	-0.05	59.63	74.00	14.37	Peak
2	2483.50	47.62	-0.05	47.57	54.00	6.43	Average

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	52.45	-0.05	52.40	74.00	21.60	Peak
2	2483.50	41.13	-0.05	41.08	54.00	12.92	Average

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

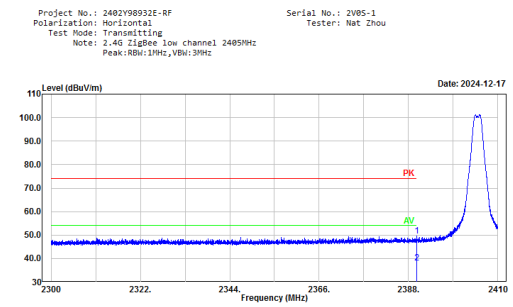
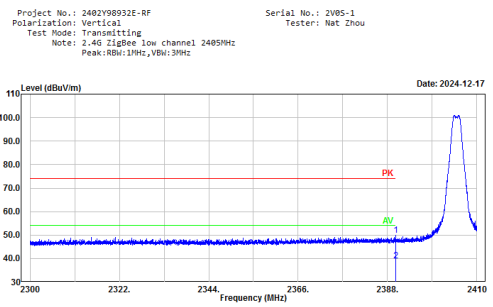
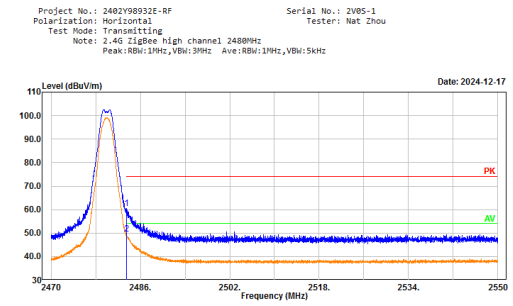
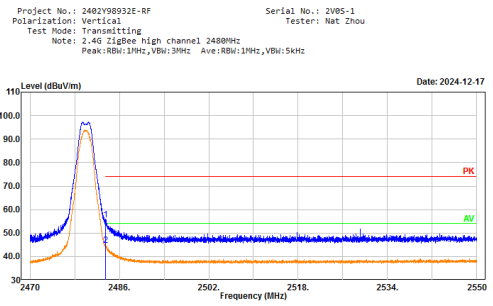
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2382.87	54.81	-0.53	54.28	74.00	19.72	Peak
2	2382.87	38.78	-0.53	38.25	54.00	15.75	Average
3	2390.00	52.90	-0.49	52.41	74.00	21.59	Peak
4	2390.00	38.96	-0.49	38.47	54.00	15.53	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2382.97	53.14	-0.53	52.61	74.00	21.39	Peak
2	2382.97	38.42	-0.53	37.89	54.00	16.11	Average
3	2390.00	49.26	-0.49	48.77	74.00	25.23	Peak
4	2390.00	38.26	-0.49	37.77	54.00	16.23	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2483.50	61.73	-0.05	61.68	74.00	12.32	Peak
2	2483.50	50.72	-0.05	50.67	54.00	3.33	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2483.50	53.73	-0.05	53.68	74.00	20.32	Peak
2	2483.50	42.66	-0.05	42.61	54.00	11.39	Average

For Zigbee:

Zigbee, Low Channel, Bandedge, Horizontal	Zigbee, Low Channel, Bandedge, Vertical
	
Zigbee, High Channel, Bandedge, Horizontal	Zigbee, High Channel, Bandedge, Vertical
	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2390.00	50.17	-0.49	49.68	74.00	24.32	Peak
2	2390.00	38.73	-0.49	38.24	54.00	15.76	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2390.00	50.27	-0.49	49.78	74.00	24.22	Peak
2	2390.00	39.46	-0.49	38.97	54.00	15.03	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2483.50	60.39	-0.05	60.34	74.00	13.66	Peak
2	2483.50	49.78	-0.05	49.73	54.00	4.27	Average

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2483.50	55.86	-0.05	55.81	74.00	18.19	Peak
2	2483.50	44.94	-0.05	44.89	54.00	9.11	Average

5.3 6dB Emission Bandwidth

Serial No.:	2V0T-1	**Test Date:**	2024/12/16~2024/12/20
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	23.1~24.4	**Relative Humidity: (%)**	29~30	**ATM Pressure: (kPa)**	102.3~102.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
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:

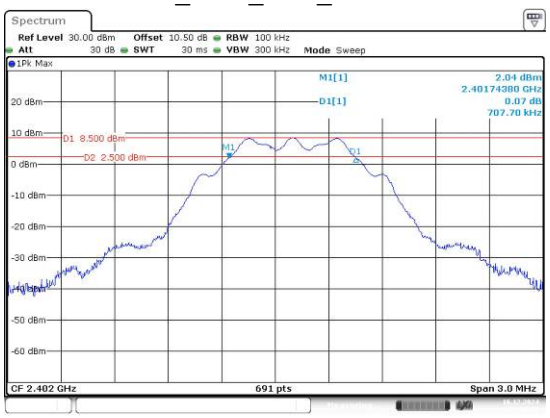
BLE:

Channel	Result (MHz)	Limit (MHz)	Verdict
BLE 125kbps Low	0.708	≥0.5	Pass
BLE 125kbps Middle	0.69	≥0.5	Pass
BLE 125kbps High	0.695	≥0.5	Pass
BLE 500kbps Low	0.713	≥0.5	Pass
BLE 500kbps Middle	0.72	≥0.5	Pass
BLE 500kbps High	0.713	≥0.5	Pass
BLE 1Mbps Low	0.712	≥0.5	Pass
BLE 1Mbps Middle	0.715	≥0.5	Pass
BLE 1Mbps High	0.712	≥0.5	Pass
BLE 2Mbps Low	1.363	≥0.5	Pass
BLE 2Mbps Middle	1.363	≥0.5	Pass
BLE 2Mbps High	1.363	≥0.5	Pass

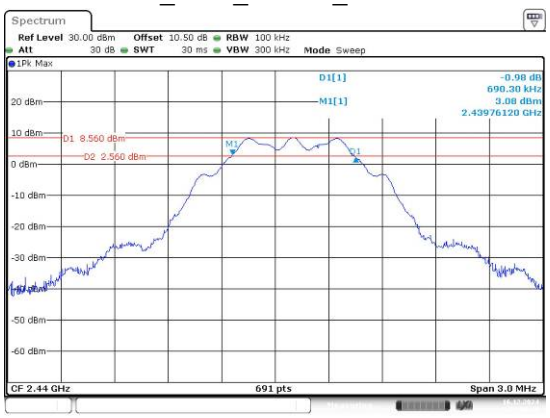
Zigbee

Channel	Result (MHz)	Limit (MHz)	Verdict
ZigBee Low	1.65	≥0.5	Pass
ZigBee Middle	1.65	≥0.5	Pass
ZigBee High	1.65	≥0.5	Pass

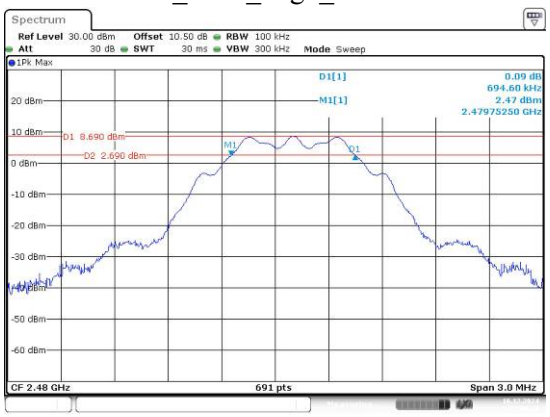
BLE_125k_Low_Channel



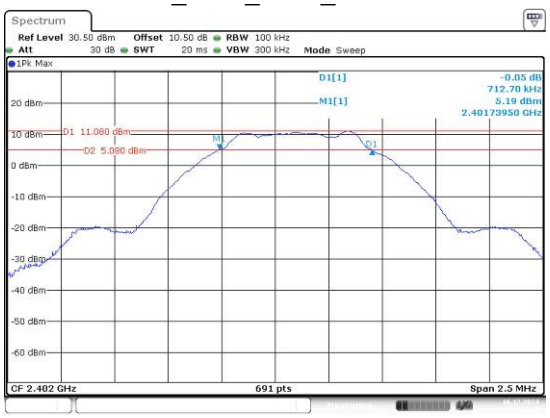
BLE_125k_Middle_Channel



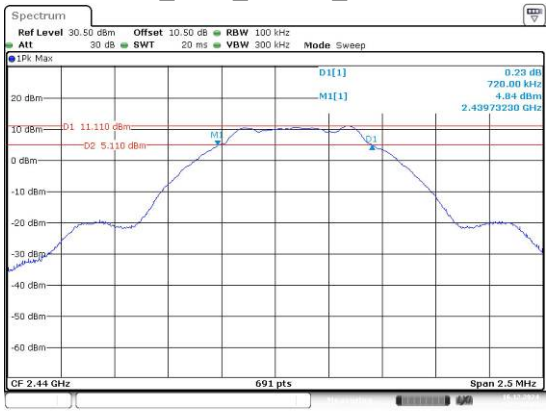
BLE_125k_High_Channel



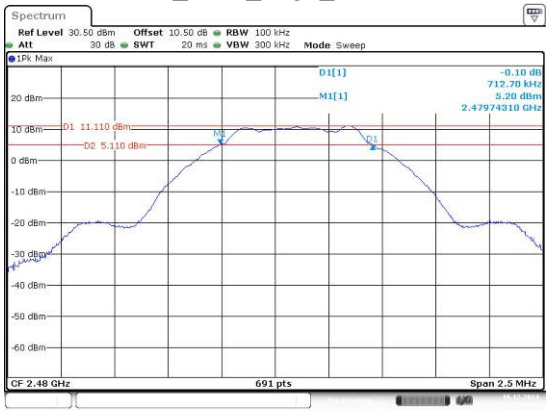
BLE_500k_ Low_Channel



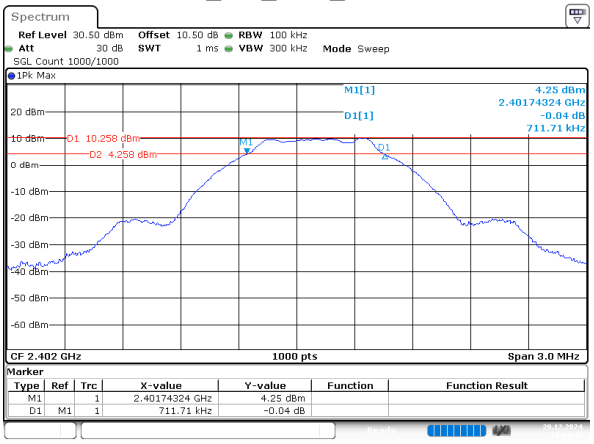
BLE_500k_Middle_Channel



BLE_500k_High_Channel

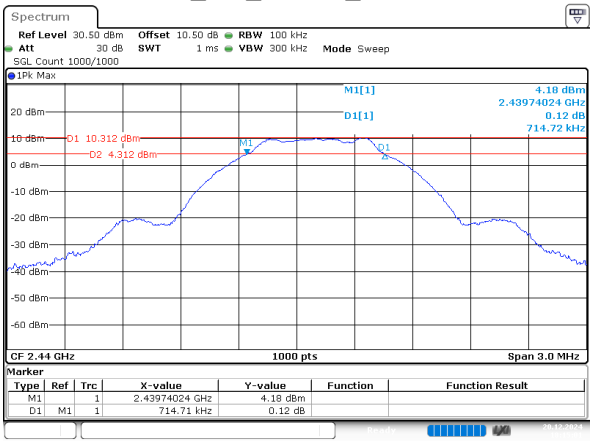


BLE_1M_Low_Channel



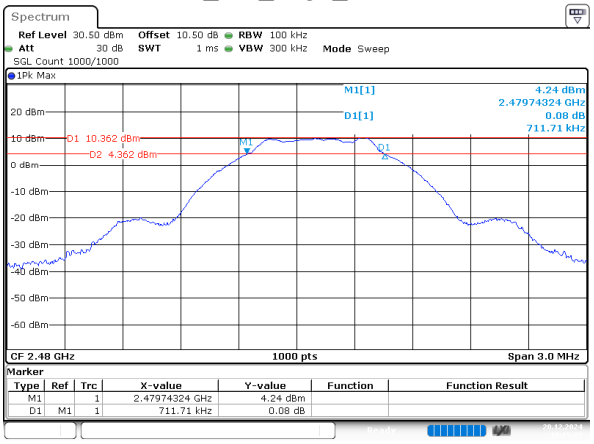
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 20.DEC.2024 18:14:45

BLE_1M_Middle_Channel



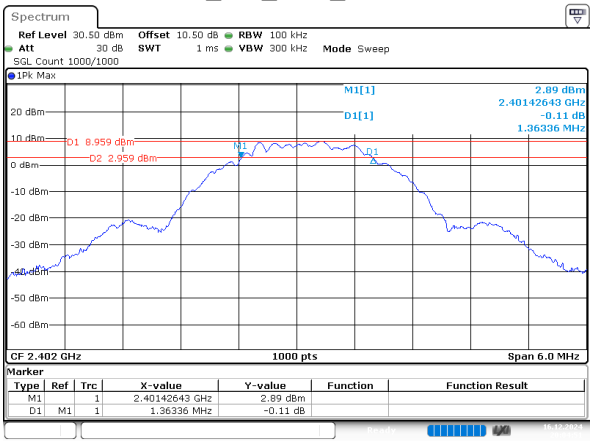
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 20.DEC.2024 18:15:00

BLE_1M_High_Channel



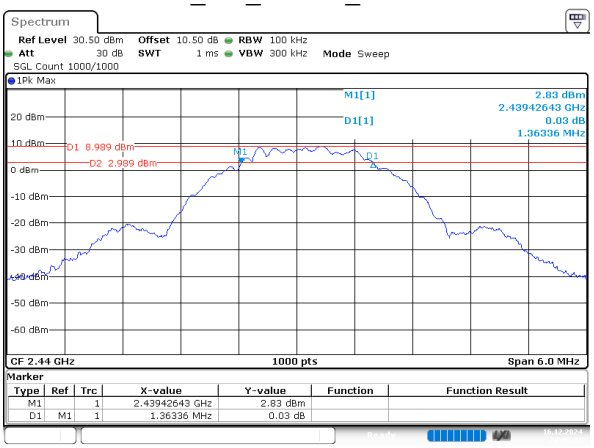
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 20.DEC.2024 18:15:21

BLE_2M_Low_Channel



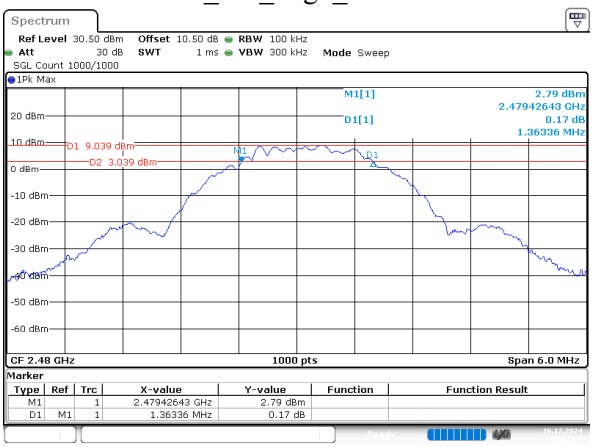
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:04:51

BLE_2M_Middle_Channel



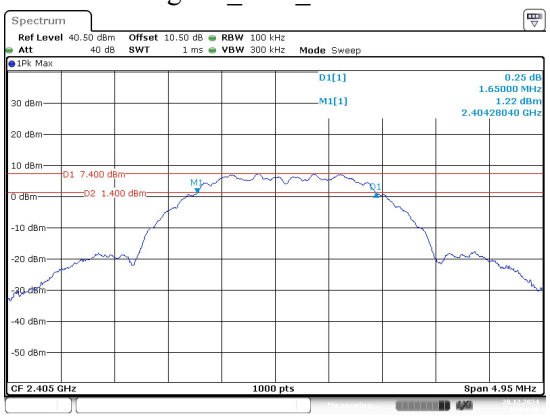
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:06:01

BLE_2M_High_Channel



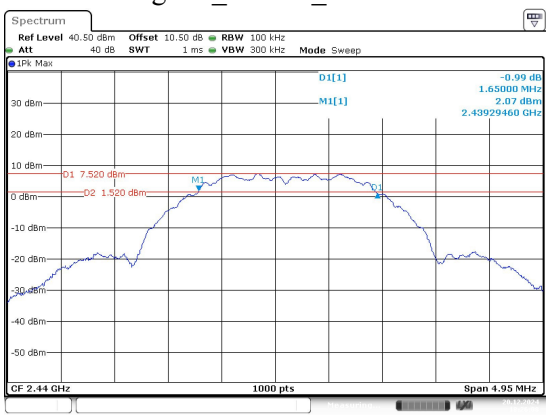
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:07:27

ZigBee_Low_Channel



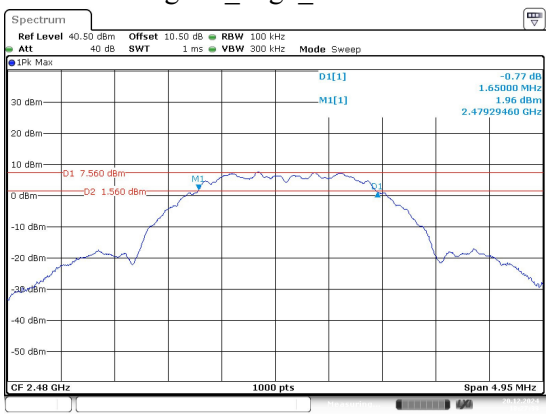
ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 18:24:48

ZigBee_Middle_Channel



ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 18:26:07

ZigBee_High_Channel



ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 18:27:33

5.4 99% Occupied Bandwidth

Serial No.:	2V0T-1	**Test Date:**	2024/12/16
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	/

Environmental Conditions:

Temperature: (°C):	23.1	**Relative Humidity: (%)**	30	**ATM Pressure: (kPa)**	102.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
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:

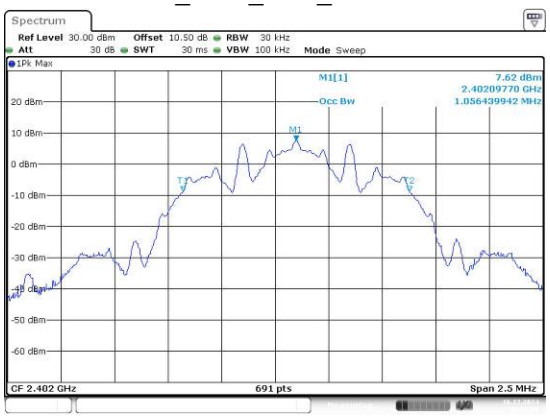
BLE:

Channel	99% OBW (MHz)
BLE 125kbps Low	1.056
BLE 125kbps Middle	1.056
BLE 125kbps High	1.056
BLE 500kbps Low	1.042
BLE 500kbps Middle	1.042
BLE 500kbps High	1.042
BLE 1Mbps Low	1.028
BLE 1Mbps Middle	1.028
BLE 1Mbps High	1.032
BLE 2Mbps Low	2.094
BLE 2Mbps Middle	2.100
BLE 2Mbps High	2.112

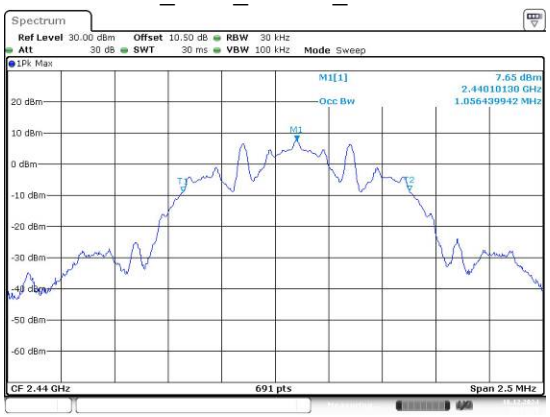
Zigbee:

Channel	99% OBW (MHz)
ZigBee Low	2.236
ZigBee Middle	2.243
ZigBee High	2.243

BLE_125k_Low_Channel



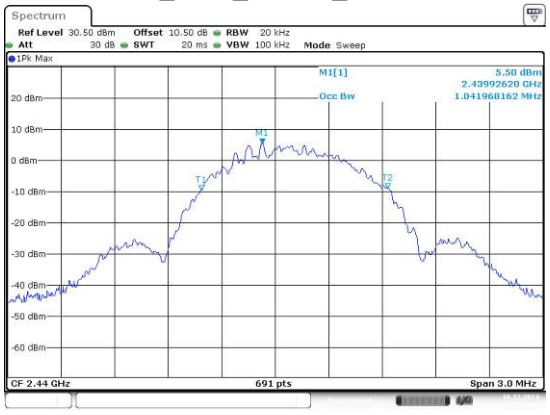
BLE_125k_Middle_Channel



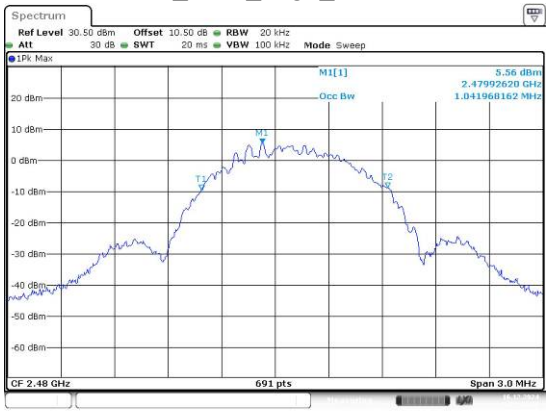
BLE_125k_High_Channel

BLE_500k_Low_Channel

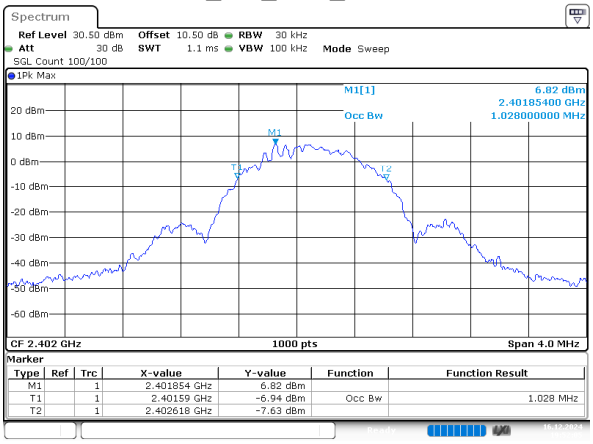
BLE_500k_Middle_Channel



BLE_500k_High_Channel

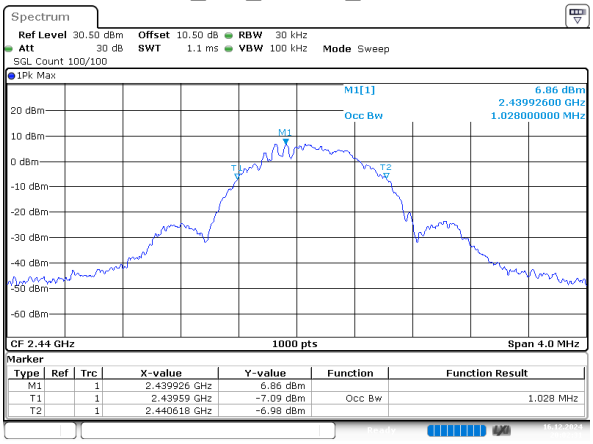


BLE_1M_Low_Channel



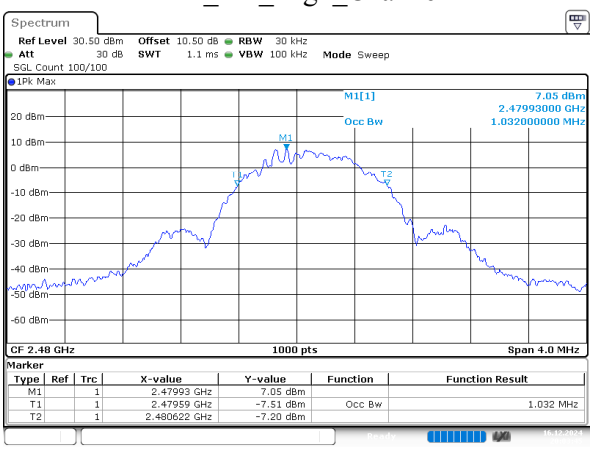
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 19:52:05

BLE_1M_Middle_Channel



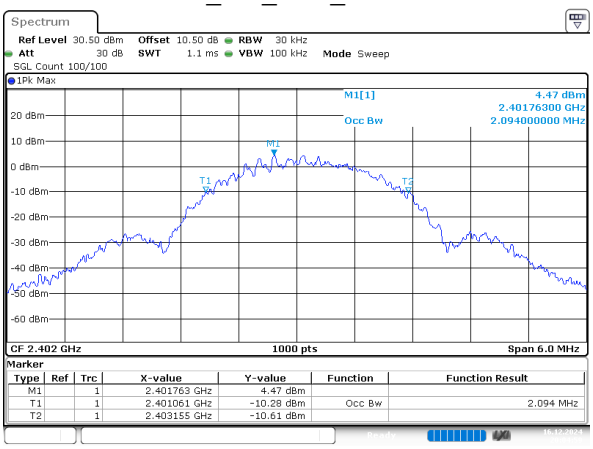
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:02:31

BLE_1M_High_Channel



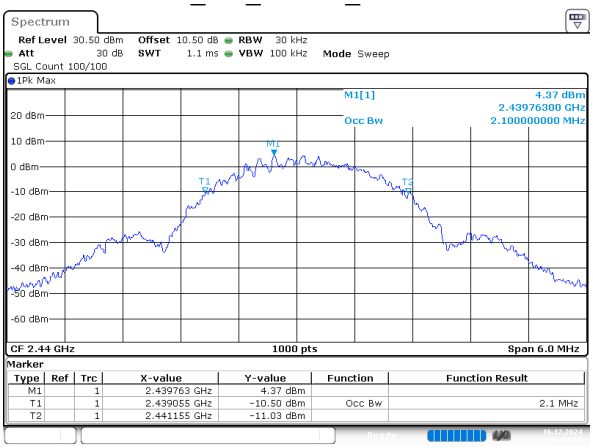
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:03:46

BLE_2M_Low_Channel



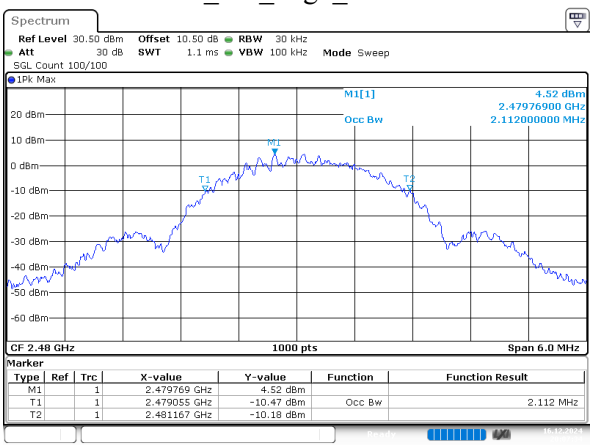
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:04:59

BLE_2M_Middle_Channel



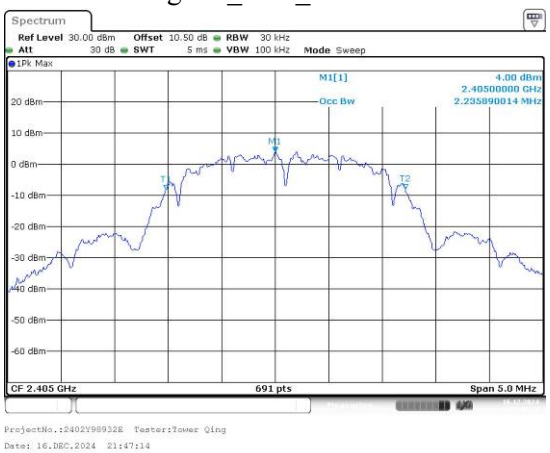
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:06:08

BLE_2M_High_Channel



ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:07:34

ZigBee_Low_Channel



ZigBee_Middle_Channel

ZigBee_High_Channel

5.5 Maximum Conducted Output Power

Serial No.:	2V0T-1	Test Date:	2024/12/16~2024/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	23.1~24.4	Relative Humidity: (%)	29~30	ATM Pressure: (kPa)	102.3~102.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
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:

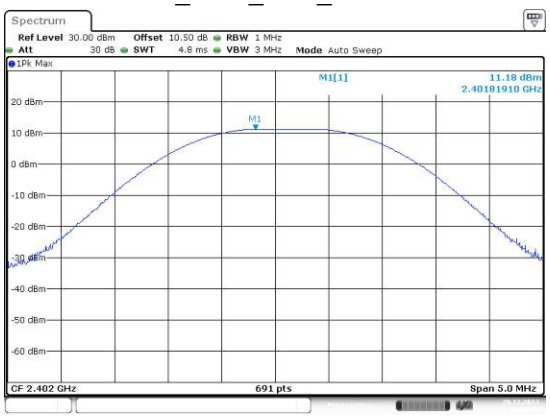
BLE:

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
BLE 125kbps Low	11.18	30.00	Pass
BLE 125kbps Middle	11.19	30.00	Pass
BLE 125kbps High	11.26	30.00	Pass
BLE 500kbps Low	11.17	30.00	Pass
BLE 500kbps Middle	11.21	30.00	Pass
BLE 500kbps High	11.24	30.00	Pass
BLE 1Mbps Low	11.82	36.00	Pass
BLE 1Mbps Middle	11.86	30.00	Pass
BLE 1Mbps High	**11.93**	30.00	Pass
BLE 2Mbps Low	11.82	30.00	Pass
BLE 2Mbps Middle	11.86	30.00	Pass
BLE 2Mbps High	11.92	30.00	Pass
Max EIRP	9.93	36.00	Pass

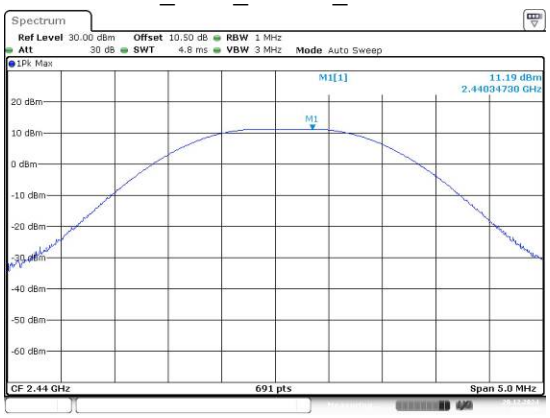
Zigbee:

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
ZigBee Low	11.92	30.00	Pass
ZigBee Middle	11.98	30.00	Pass
ZigBee High	**12.01**	30.00	Pass
Max EIRP	10.01	36.00	Pass

BLE_125k_Low_Channel

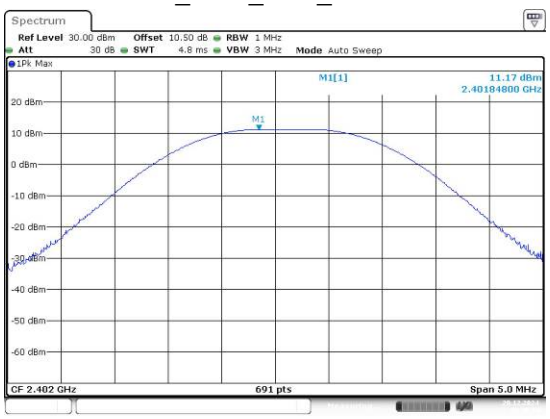


BLE_125k_Middle_Channel

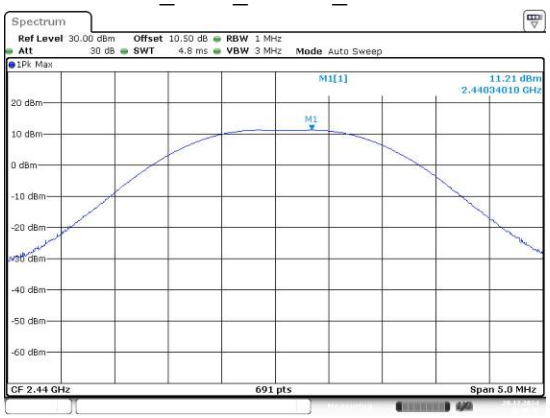


BLE_125k_High_Channel

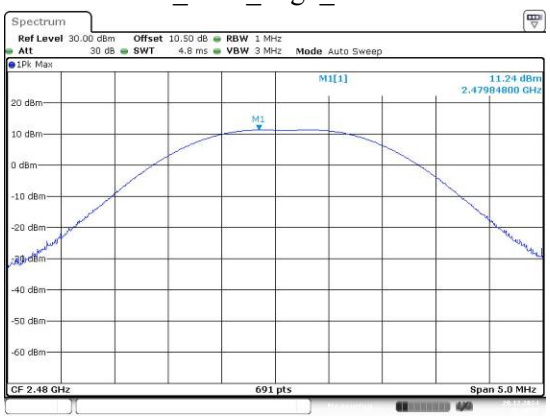
BLE_500k_Low_Channel



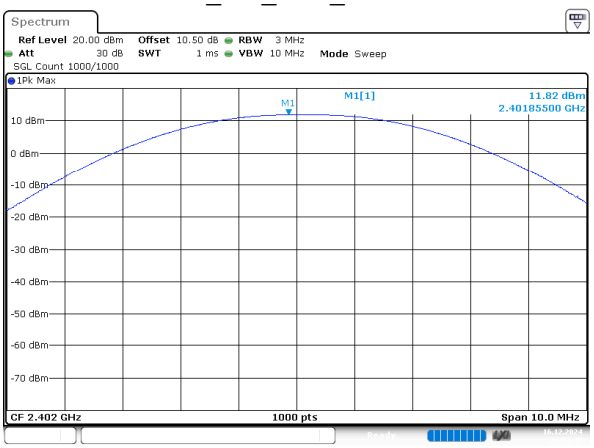
BLE_500k_Middle_Channel



BLE_500k_High_Channel

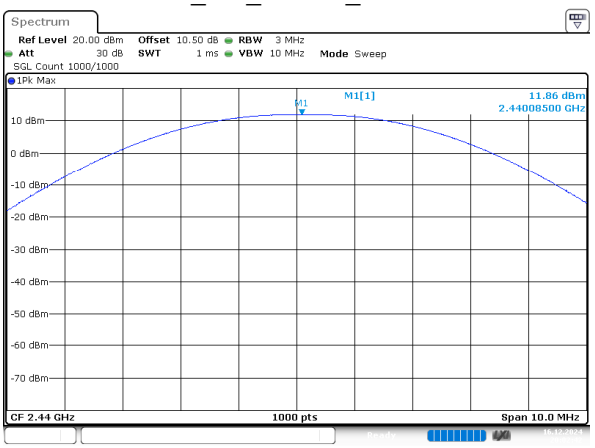


BLE_1M_Low_Channel



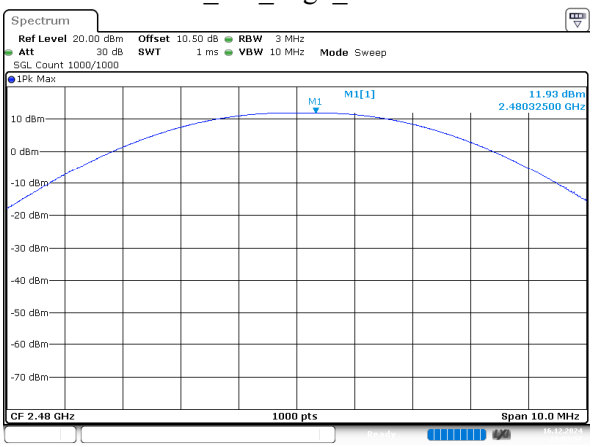
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:01:49

BLE_1M_Middle_Channel



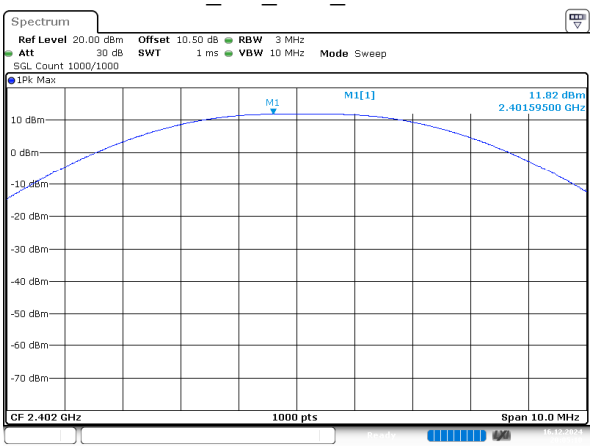
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:02:42

BLE_1M_High_Channel



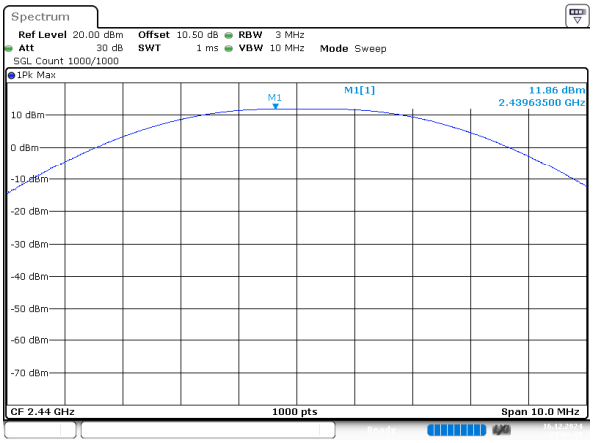
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:03:57

BLE_2M_Low_Channel



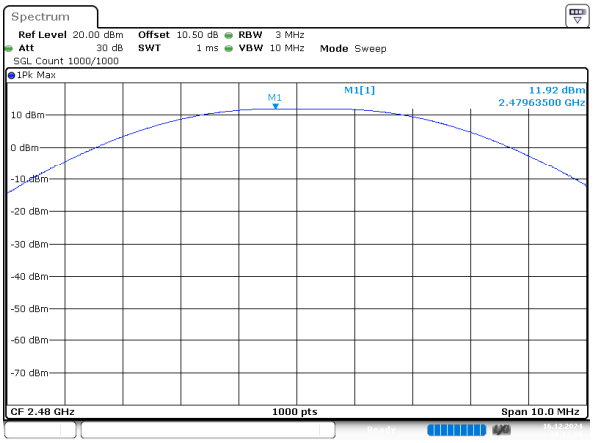
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:05:10

BLE_2M_Middle_Channel



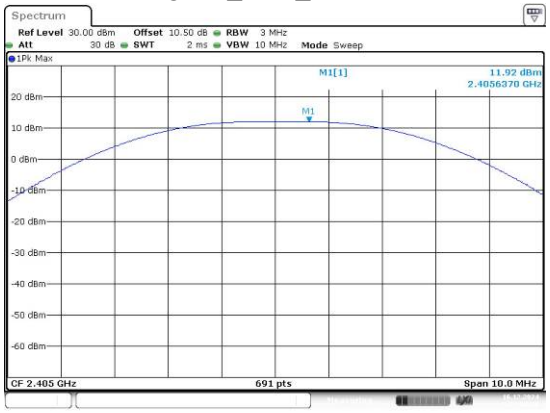
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:06:19

BLE_2M_High_Channel

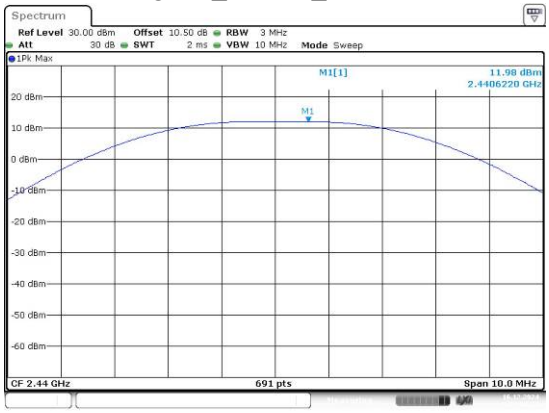


ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:22:39

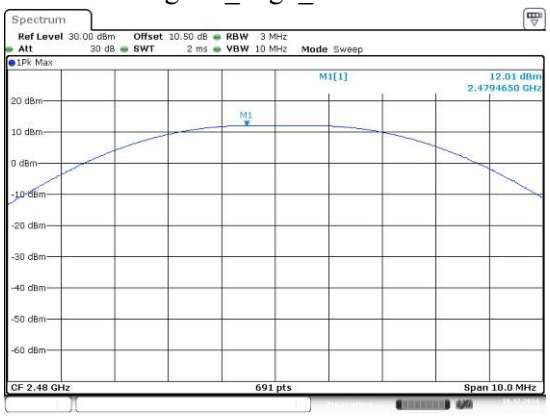
ZigBee_Low_Channel



ZigBee_Middle_Channel



ZigBee_High_Channel



5.6 Power Spectral Density

Serial No.:	2V0T-1	**Test Date:**	2024/12/16
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	23.1	**Relative Humidity: (%)**	30	**ATM Pressure: (kPa)**	102.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
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:

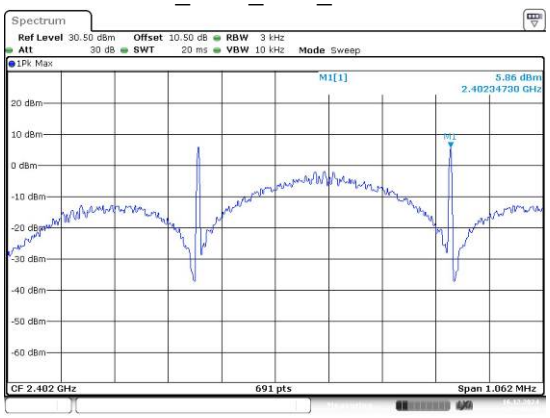
BLE:

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 125kbps Low	5.86	8	Pass
BLE 125kbps Middle	5.88	8	Pass
BLE 125kbps High	5.93	8	Pass
BLE 500kbps Low	-4.86	8	Pass
BLE 500kbps Middle	-4.95	8	Pass
BLE 500kbps High	-4.75	8	Pass
BLE 1Mbps Low	-4.96	8	Pass
BLE 1Mbps Middle	-4.91	8	Pass
BLE 1Mbps High	-4.80	8	Pass
BLE 2Mbps Low	-5.75	8	Pass
BLE 2Mbps Middle	-5.74	8	Pass
BLE 2Mbps High	-5.68	8	Pass

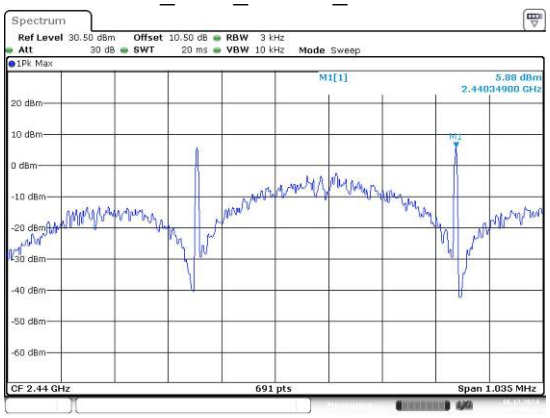
Zigbee

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
ZigBee Low	-3.22	8	Pass
ZigBee Middle	-3.23	8	Pass
ZigBee High	-3.17	8	Pass

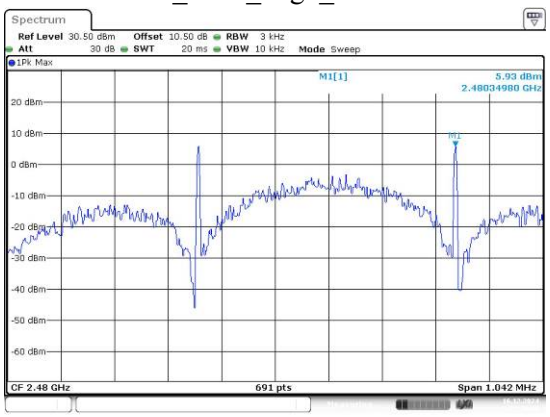
BLE_125k_Low_Channel



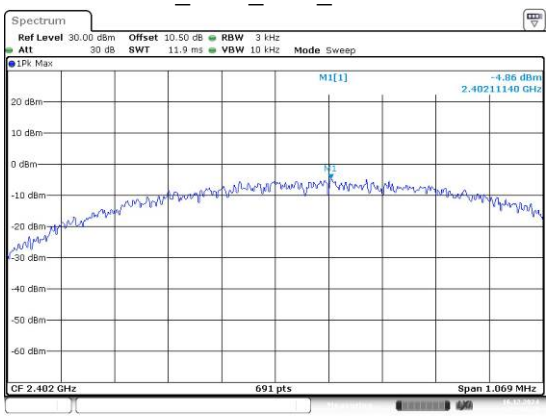
BLE_125k_Middle_Channel



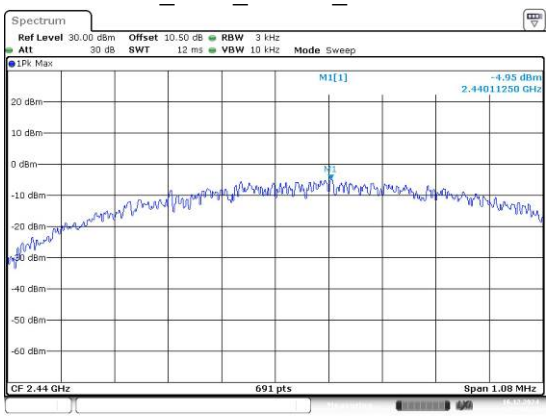
BLE_125k_High_Channel



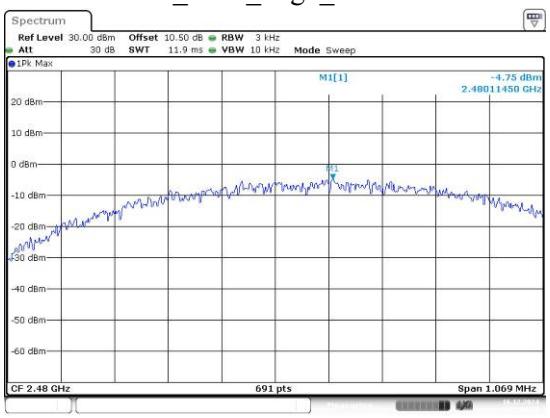
BLE_500k_Low_Channel



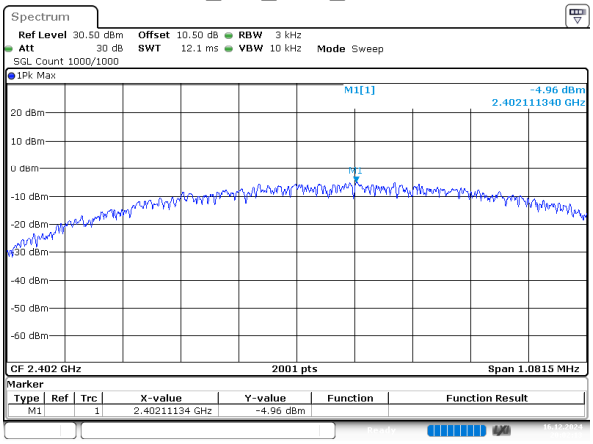
BLE_500k_Middle_Channel



BLE_500k_High_Channel

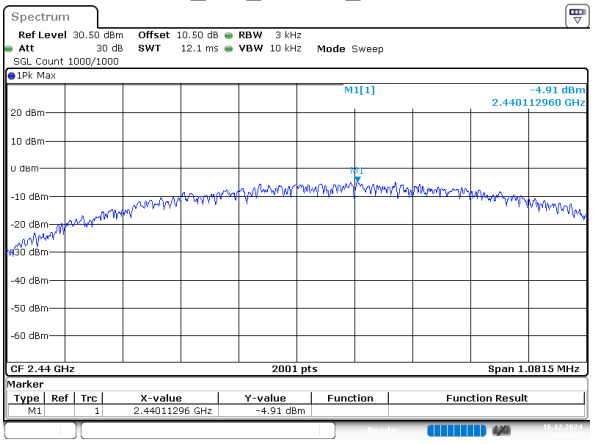


BLE_1M_Low_Channel



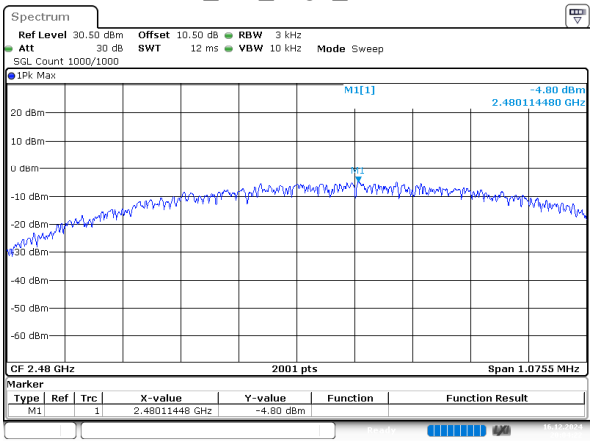
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:02:13

BLE_1M_Middle_Channel



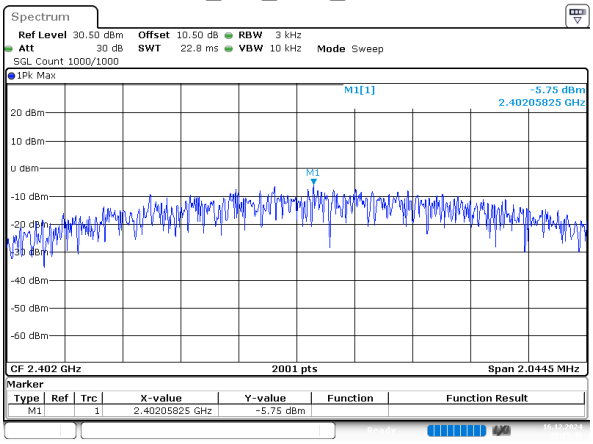
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:03:07

BLE_1M_High_Channel



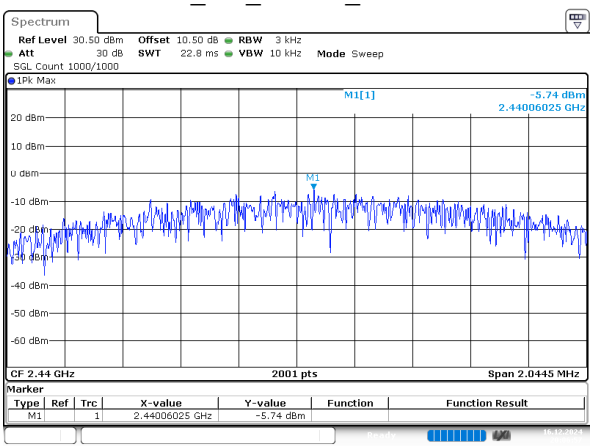
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:04:22

BLE_2M_Low_Channel



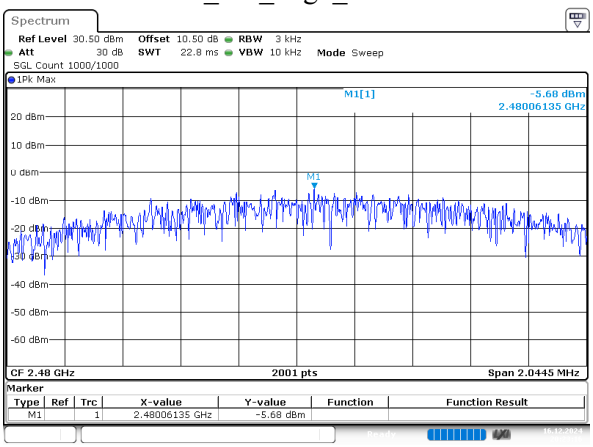
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:05:48

BLE_2M_Middle_Channel



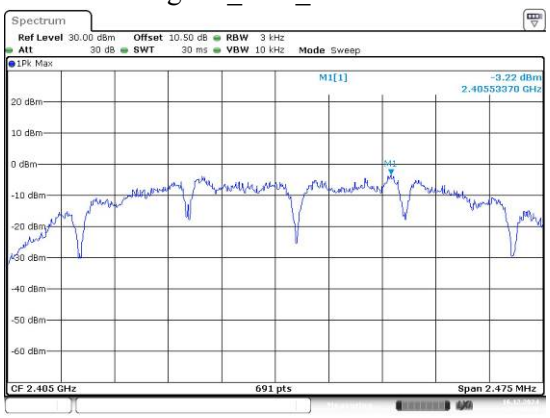
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:06:57

BLE_2M_High_Channel



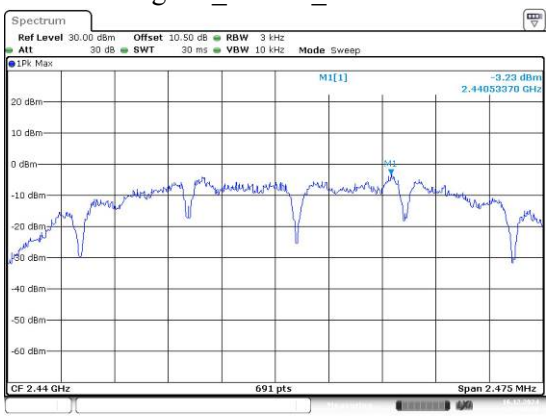
ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:23:16

ZigBee_Low_Channel



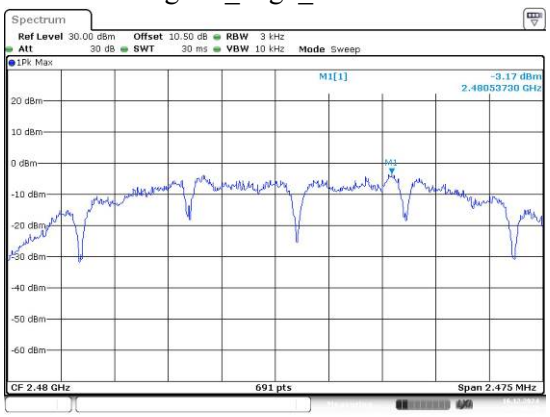
ProjectNo.:2402Y98932E Tester:Tower Qing
Date: 16.DEC.2024 21:55:17

ZigBee_Middle_Channel



ProjectNo.:2402Y98932E Tester:Tower Qing
Date: 16.DEC.2024 21:55:38

ZigBee_High_Channel



ProjectNo.:2402Y98932E Tester:Tower Qing
Date: 16.DEC.2024 21:56:11

5.7 100 kHz Bandwidth of Frequency Band Edge

Test Information:

Serial No.:	2V0T-1	**Test Date:**	2024/12/16~2024/12/20
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	23.1~24.4	**Relative Humidity: (%)**	29~30	**ATM Pressure: (kPa)**	102.3~102.5

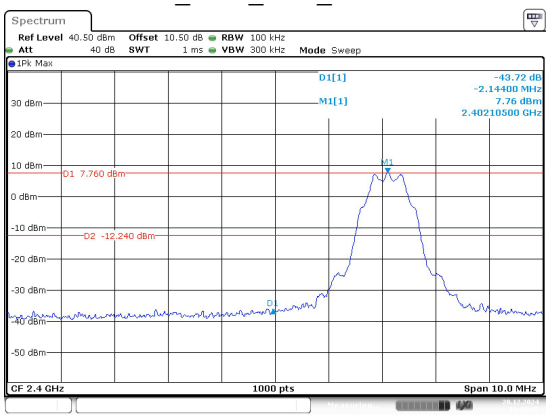
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
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).*

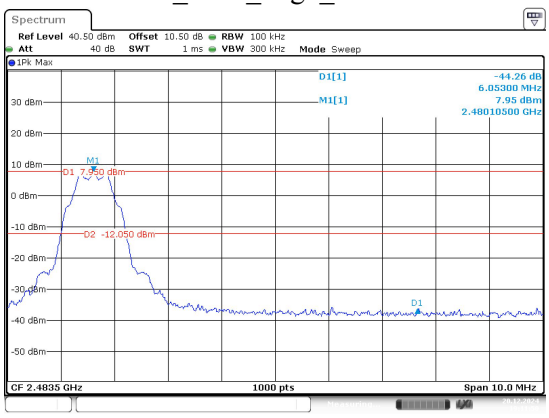
Test Data:

BLE_125k_Low_Channel



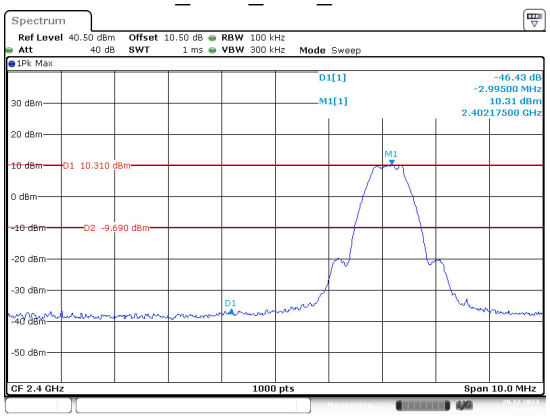
ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 19:09:47

BLE_125k_High_Channel



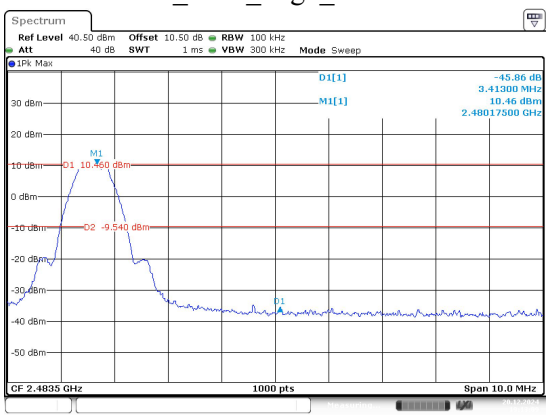
ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 19:11:50

BLE_500k_Low_Channel



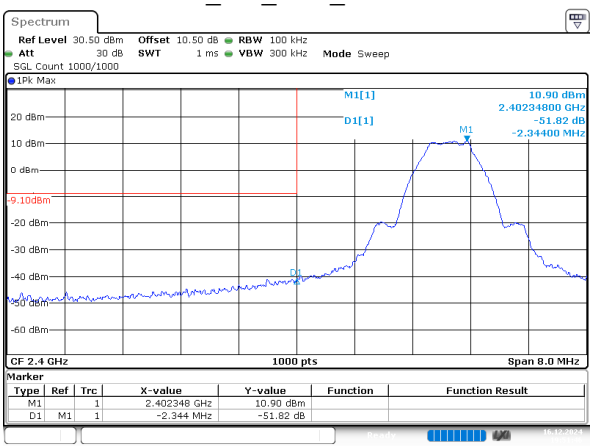
ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 19:14:42

BLE_500k_High_Channel



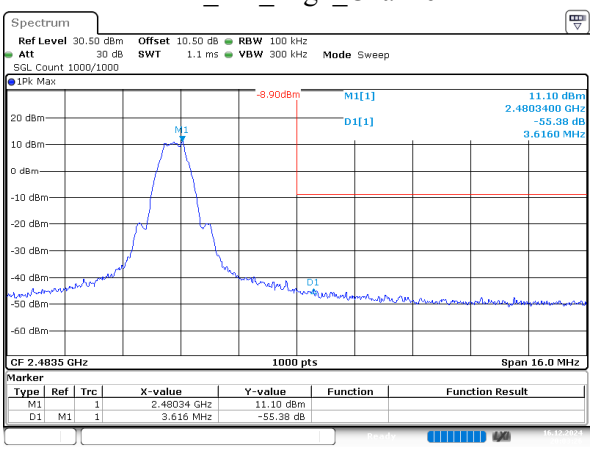
ProjectNo.:2402Y98932 Tester:Tower Qing
Date: 20.DEC.2024 19:13:09

BLE_1M_Low_Channel



ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 19:51:46

BLE_1M_High_Channel



ProjectNo.:2402Y98932E-RF Tester:Tower Qing
Date: 16.DEC.2024 20:03:26