FCC / ISED – TEST REPORT

Report Number	:	**60.790.24.080.01R03**	Date of Issue:	**April 23, 2025**
Model/HVIN	:	**Bluetooth Ratchet Lock, Bluetooth Drawer Door Lock, Bluetooth Glass Door Lock**		
Product Type	:	Slide Lock		
Applicant	:	Mobile Technologies Inc.		
Address	:	2345 NE Overlook Drive, Hillsboro OR 97006 United States of America.		
Production Facility (1)	:	Shenzhen Maxway Technology CO., LTD		
Address	:	3F, Building 4, Section A, 3rd Industrial Zone of Tangtou, Shiyan Town, Bao'an District, Shenzhen, China.		
Production Facility (2)	:	Well Star Precision Technology Limited		
Address	:	24 Bao Ta Road, Bao Tang Community, Hou Jie Town, Dongguan City, Guangdong Province, China		
Production Facility (3)	:	VIETNAM IBE LASER TECHNOLOGY COMPANY LIMITED		
Address	:	lot CN-34 and Lot CN-39, Thuan Thanh II industrial zone, An Binh & Mao Dien commune, Thuan Thanh district, Bac Ninh province, Vietnam		
Test Result	:	**n Positive** o Negative		
Total pages including Appendices	:	**40**		

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1 Table of Contents

1 Table of Contents 2
2 Details about the Test Laboratory 3
3 Description of the Equipment Under Test 4
4 Summary of Test Standards 5
5 Summary of Test Results 6
6 General Remarks 7
7 Test Setups 8
8 Systems Test Configuration 10
9 Technical Requirement 11
9.1 Conducted Emission 11
9.2 Conducted Peak Output Power & EIRP 12
9.3 Power Spectral Density 14
9.4 6 dB Bandwidth 16
9.5 99% bandwidth 18
9.6 Spurious RF Conducted Emissions 20
9.7 Band Edge 23
9.8 Spurious Radiated Emissions for Transmitter 25
10 Test Equipment List 39
11 System Measurement Uncertainty 40

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2 Details about the Test Laboratory

Details about the Test Laboratory
Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District Shenzhen 518052 P.R. China
Telephone:	86 755 8828 6998
Fax:	86 755 8828 5299
FCC Registration No.:	514049
FCC Deignation No.:	CN5009
IC Registration No.:	10320A
ISED CAB Identifier:	CN0077

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	Slide Lock
Model no.:	Bluetooth Ratchet Lock, Bluetooth Drawer Door Lock, Bluetooth Glass Door Lock
Hardware Version Identification No. (HVIN)	Bluetooth Ratchet Lock, Bluetooth Drawer Door Lock, Bluetooth Glass Door Lock
Product Marketing Name (PMN)	Slide Lock
Brand name:	N/A
FCC ID:	2AA2X-15000118V2
IC:	24439-15000118V2
Rating:	3.0 VDC (CR123A Battery)
RF Transmission Frequency:	BLE: 2402MHz – 2480MHz
No. of Operated Channel:	40
Modulation:	GFSK
Transmitter Rate:	2M bps
Antenna Type:	Built-in Integral Antenna
Antenna	Gain: 2.3 dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Slide Lock which support Bluetooth (BLE) function, Zigbee function and 125 kHz near field card access function. Only BLE measurement included in this report.

NOTE:

1. The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	**PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators**
RSS-Gen Issue 5 April 2018 + Amendment 1 March 2019 + Amendment 2 February 2021	**General Requirements for Compliance of Radio Apparatus**
RSS-247 Issue 3 August 2023	**Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices**

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

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5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C/ RSS-247 Issue 3 / RSS-Gen Issue 5 + A1 + A2						
Test Condition		Test Site	Test Result			Test Environment
			Pass	Fail	N/A	
§15.207 & RSS-GEN 8.8	Conducted emission AC power port	Site 1	☐	☐	☒	T: 24.8℃ H: 53.7%
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
§15.247(a)(2) & RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
§15.247(e) & RSS-247 5.2(b)	Power spectral density	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
§15.247(d) & RSS-247 5.5	Band edge	Site 1	☒	☐	☐	T: 24.8℃ H: 53.7%
§15.247(d) & §15.209 & §15.205 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐	T: 24.7℃ H: 49.3%
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.
Note 2: The EUT uses a Built-in Integral Antenna, which gain is 2.3 dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.
Note 3: T :Temperature, H: Humidity

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6 General Remarks

Remarks

Applicant informs that the model **Bluetooth Glass Door Lock** and **Bluetooth Drawer Door Lock** have the same technical construction including circuit diagram and all electrical construction, with **Slide Lock, Bluetooth Ratchet Lock**.
The difference lies only in the outlook/color, PCB layout for motor control part, size of coil antenna and mechanical construction of the different models.
All the RF part construction and design are the same.

All the test result of this report is based on the sample of main model: **Bluetooth Ratchet Lock.**

This submittal(s) (test report) is intended for **FCC ID: 2AA2X-15000118V2**,
IC: 24439-15000118V2, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules and RSS-247, RSS-GEN.

SUMMARY:

All tests according to the regulations cited on page 5 were

n - Performed

o - **Not** Performed

The Equipment under Test

n - **Fulfills** the general approval requirements.

o - **Does not** fulfill the general approval requirements.

Sample Received Date:	February 26, 2025
Testing Start Date:	February 26, 2025
Testing End Date:	April 22, 2025

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:	Prepared by:	Tested by:
Eric LI	Kevin DU	Carry Cai
Section Manager	EMC Project Engineer	Test Engineer

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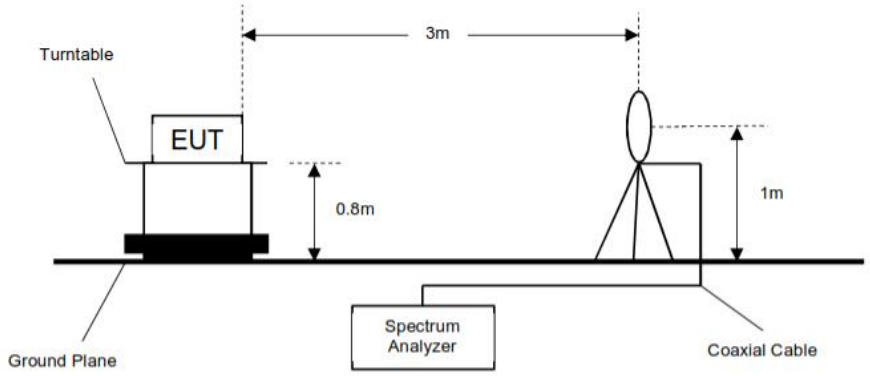
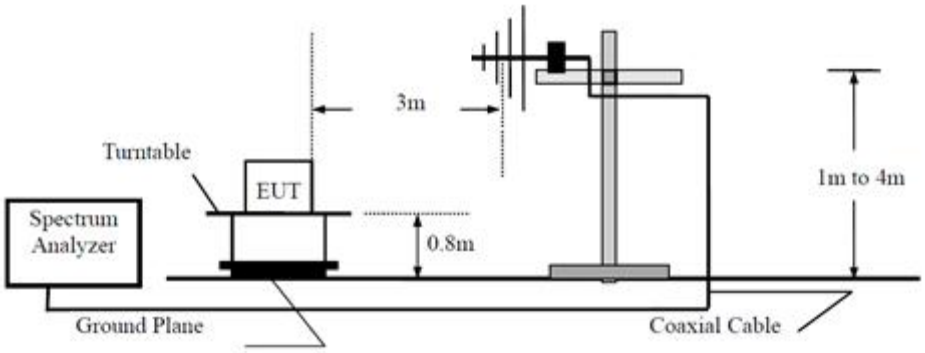
7 Test Setups

7.1 Radiated test setups

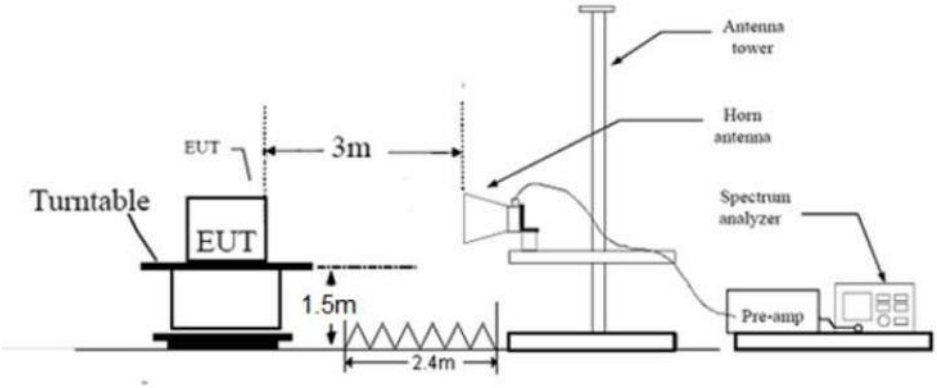
9kHz - 30MHz



30MHz - 1GHz



Above 1GHz



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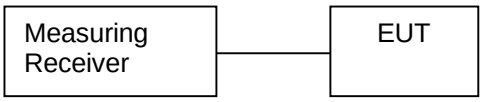
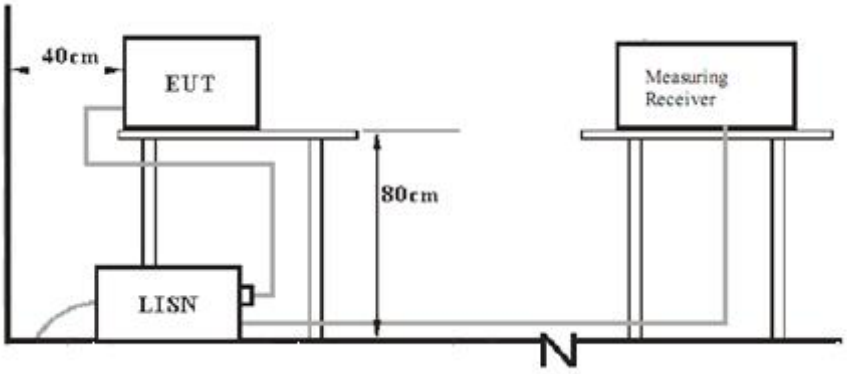
7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



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8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	Remark
Laptop	Lenovo	X220	0A72168
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Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
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The system was configured to non-hopping mode, testing channel 0, 19, 39.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

As Applicant declared that the circuit design, RF Module and Antenna of Bluetooth BLE Part are the same of different models.
Therefore, all the test result of this report is based on the model **Bluetooth Ratchet Lock.**

Only the 2M bps transmitter rate data mode is recorded in the report.

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9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Test result: Test Not Applicable for the Battery-Operated Device.

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9.2 Conducted Peak Output Power & EIRP

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following test receiver settings:
   Span = approximately 5 times the 6dB bandwidth, centered on a channel need to test,
   RBW > the 6dB bandwidth of the emission being measured, VBW≥3RBW,
   Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

Limits

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

According to & RSS-247 5.4(d), EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤4	≤36

Test result

Mode	TX Type	Frequency (MHz)	Conducted Peak Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Verdict
2M	SISO	2402	3.48	2.3	5.78	Pass
		2440	3.83	2.3	6.13	Pass
		2480	4.02	2.3	6.32	Pass

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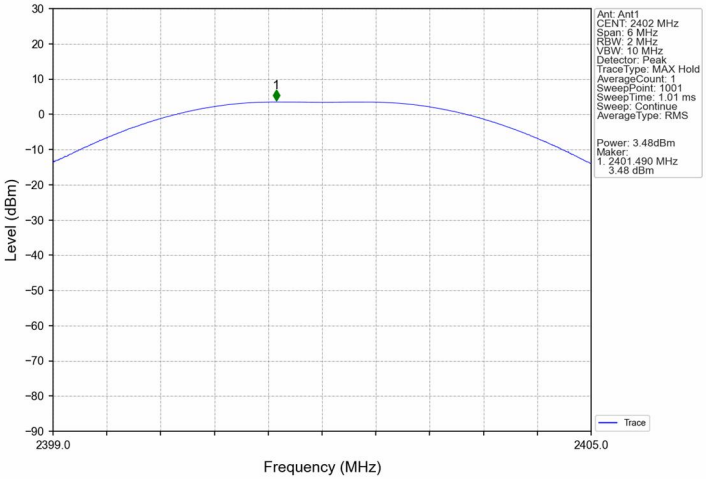
2M_LCH_2402MHz_Ant1_NTNV

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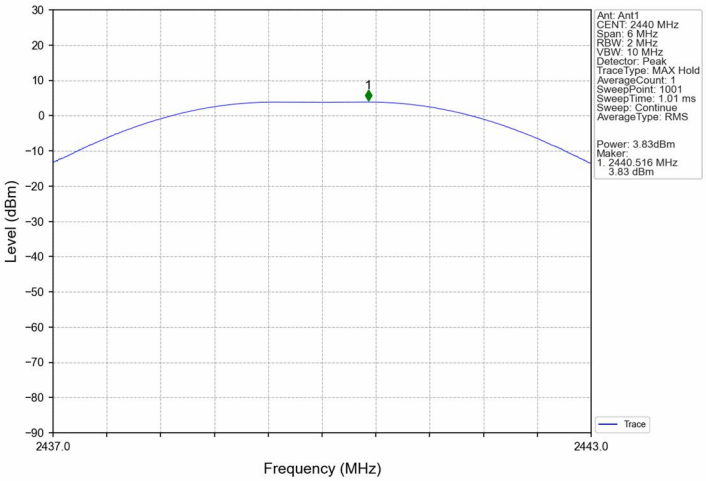
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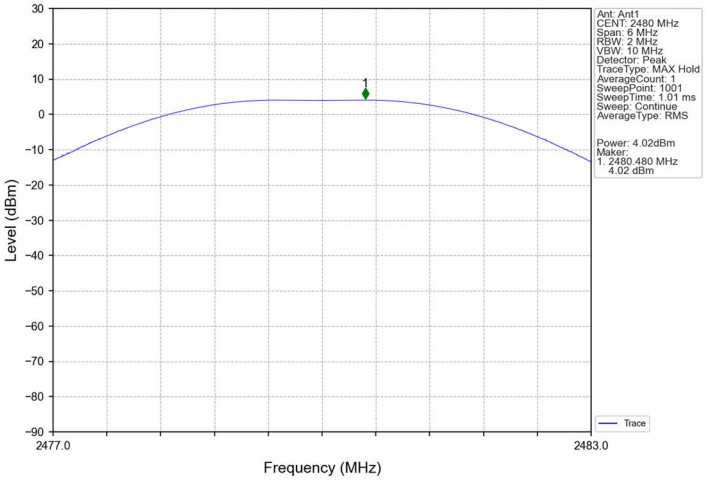

9.3 Power Spectral Density

Test Method

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]
≤8

Test Results

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
2M	SISO	2402	-18.88	<=8	Pass
		2440	-18.55	<=8	Pass
		2480	-18.40	<=8	Pass

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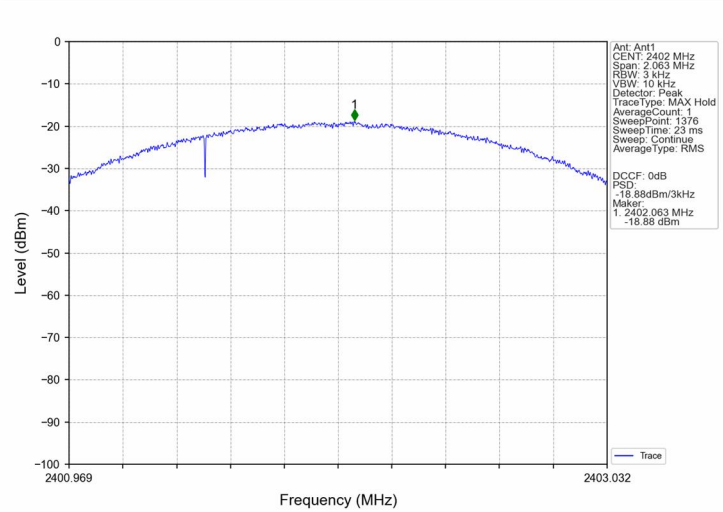
2M_LCH_2402MHz_Ant1_NTNV

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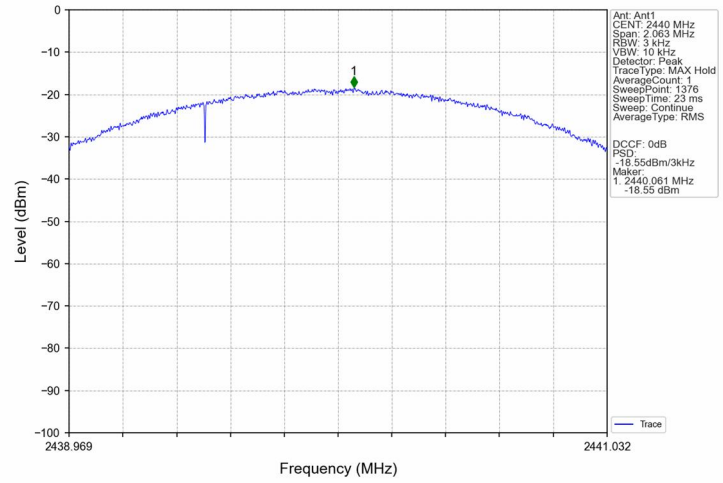
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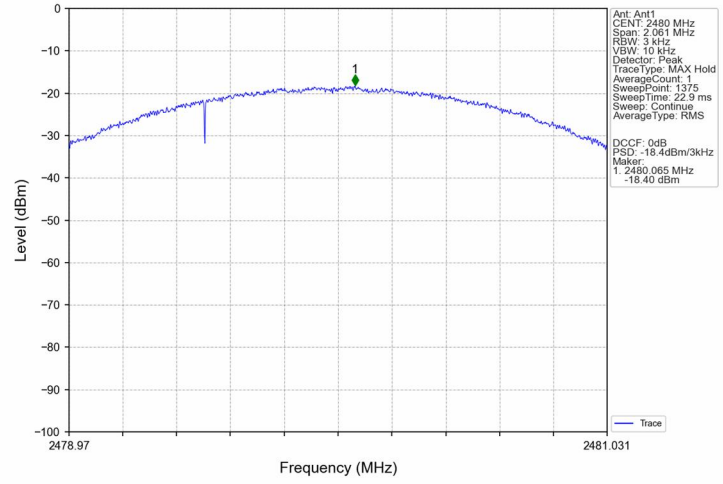

9.4 6 dB Bandwidth

Test Method

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set center frequency to the nominal EUT channel center frequency
3. Set RBW =1% to 5% of the OBW but not less than 100kHz, VBW≥ 3 × RBW Detector = Peak. Trace mode = max hold. Sweep = auto Trace = max hold
4. 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.
5. Record the results in the test report.

Limit

Limit [kHz]
≥500

Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2M	SISO	2402	1	1.375	>=0.5	Pass
		2440	1	1.375	>=0.5	Pass
		2480	1	1.374	>=0.5	Pass

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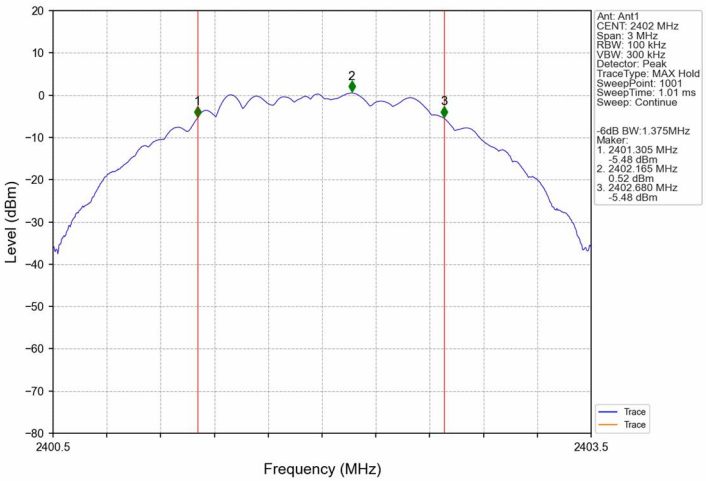
2M_LCH_2402MHz_Ant1_NTNV

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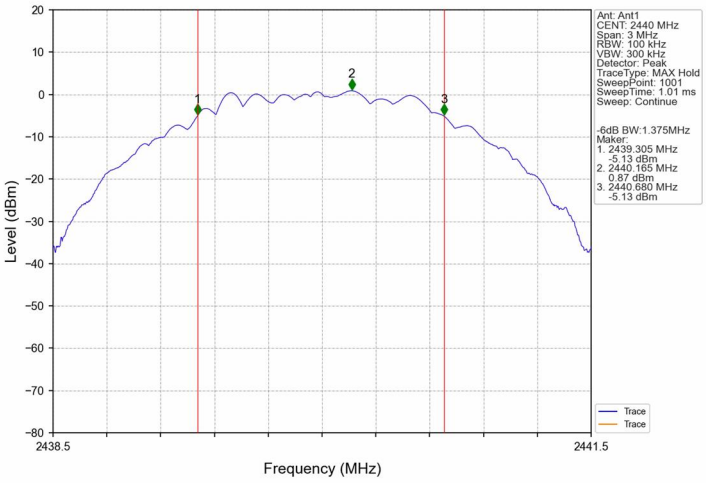
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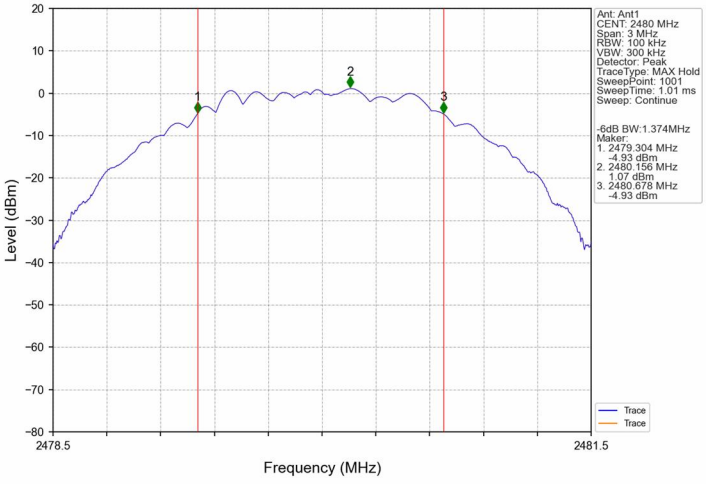

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9.5 99% bandwidth

Test Method

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW. Set RBW = 1 % to 5 % of the OBW
   Set VBW ≥ 3 RBW Trace mode = max hold. Sweep = auto couple.
   Allow the trace to stabilize.
3. Use the 99 % power bandwidth function of the instrument.
4. Record the results in the test report.

Limit

Limit [kHz]
--

Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
2M	SISO	2402	1	2.015	/	Pass
		2440	1	2.014	/	Pass
		2480	1	2.015	/	Pass

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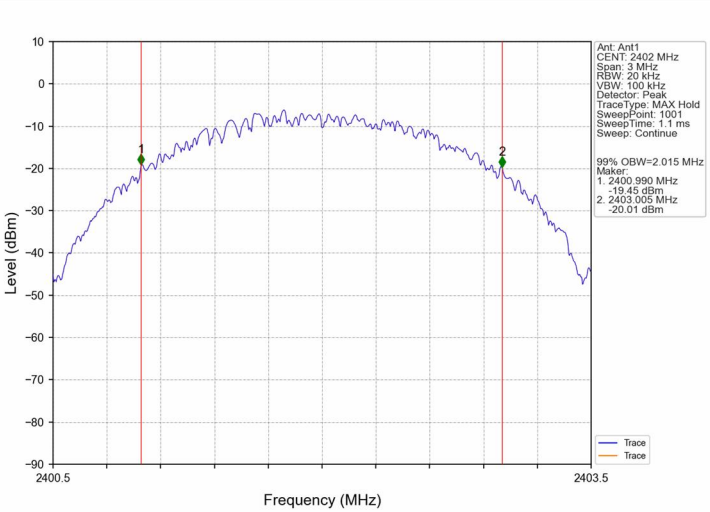
2M_LCH_2402MHz_Ant1_NTNV

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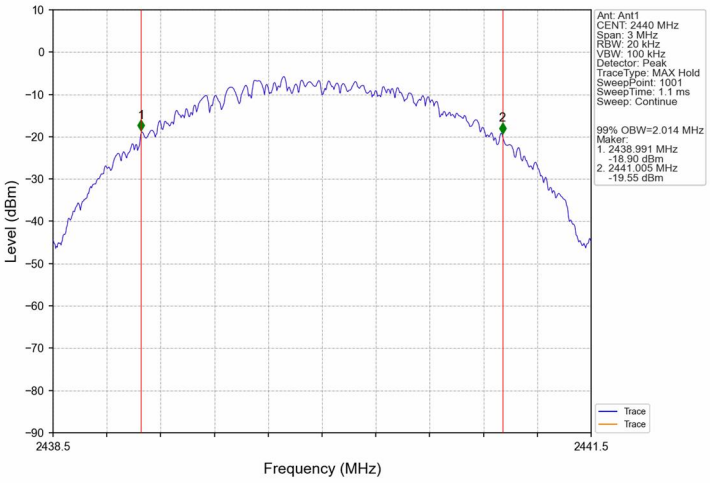
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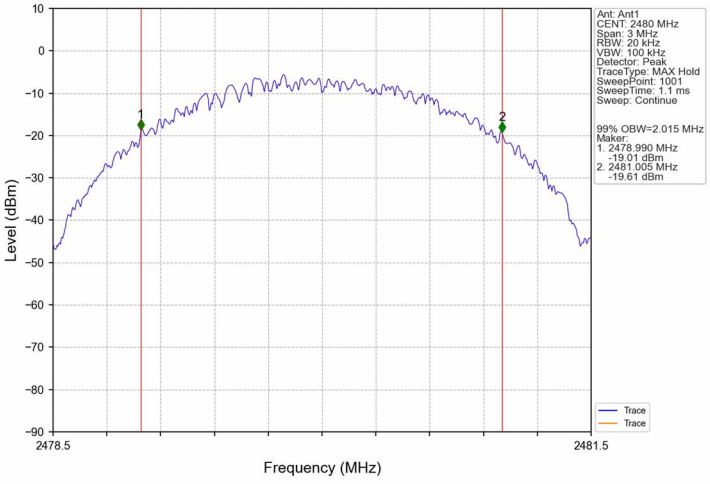

9.6 Spurious RF Conducted Emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
   RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test Result

Reference level:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2M	SISO	2402	1	0.49
		2440	1	0.83
		2480	1	1.03
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

Conducted spurious emissions:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2M	SISO	2402	1	0.49	-19.51	Pass
		2440	1	0.83	-19.17	Pass
		2480	1	1.03	-18.97	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

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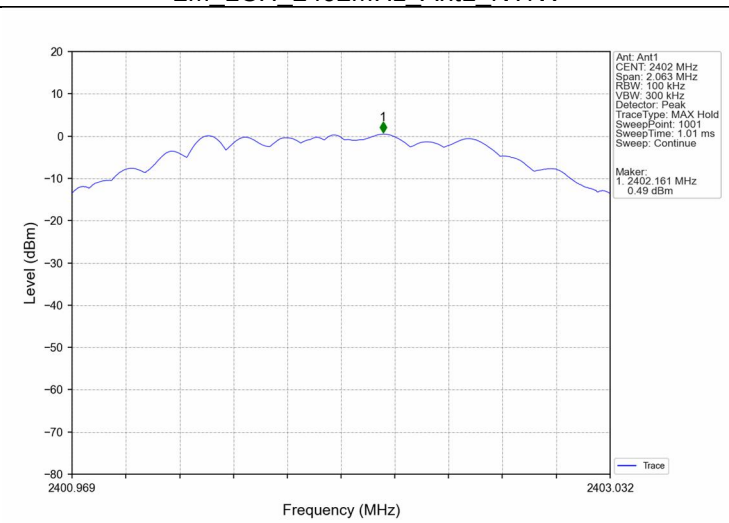
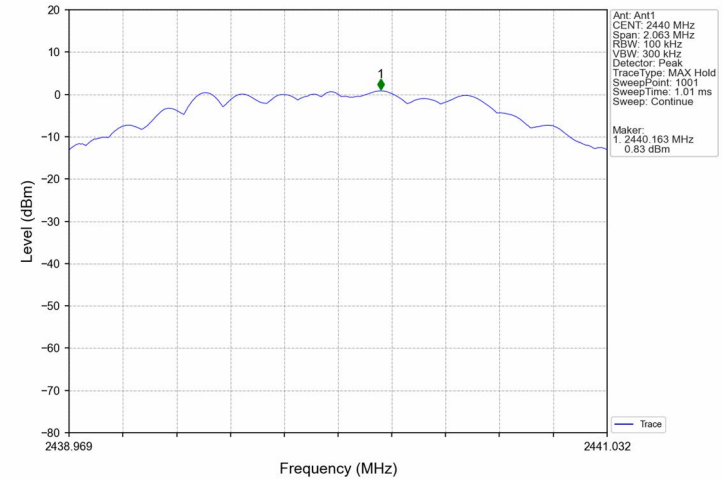
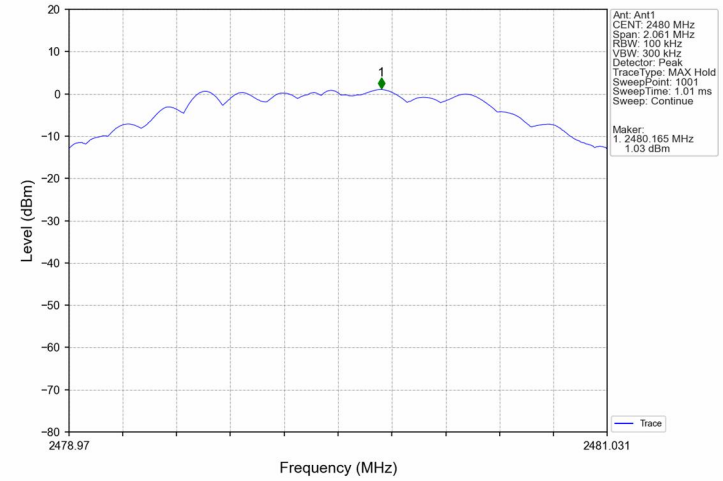
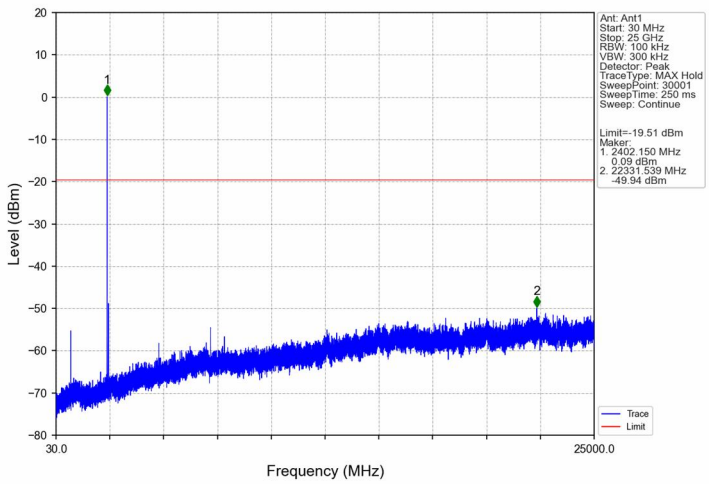
Reference level:

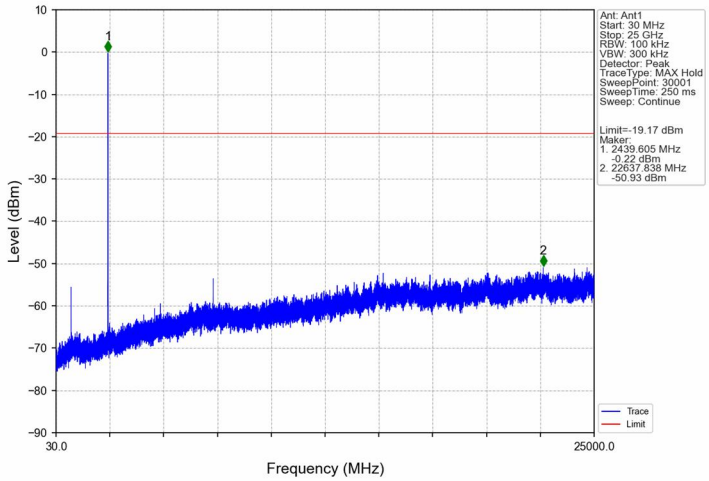
2M_LCH_2402MHz_Ant1_NTNV

2M_MCH_2440MHz_Ant1_NTNV

2M_HCH_2480MHz_Ant1_NTNV


Conducted spurious emissions:

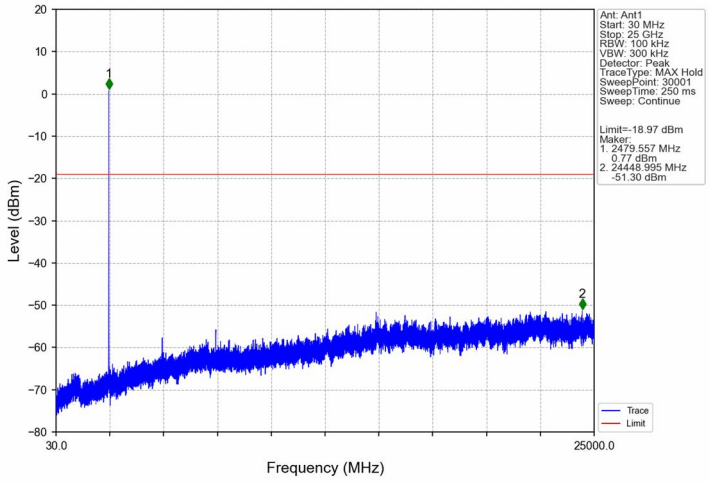
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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9.7 Band Edge

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
   RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit:

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 RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2M	SISO	2402	1	0.49	-19.51	Pass
		2440	1	0.83	-19.17	Pass
		2480	1	1.03	-18.97	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

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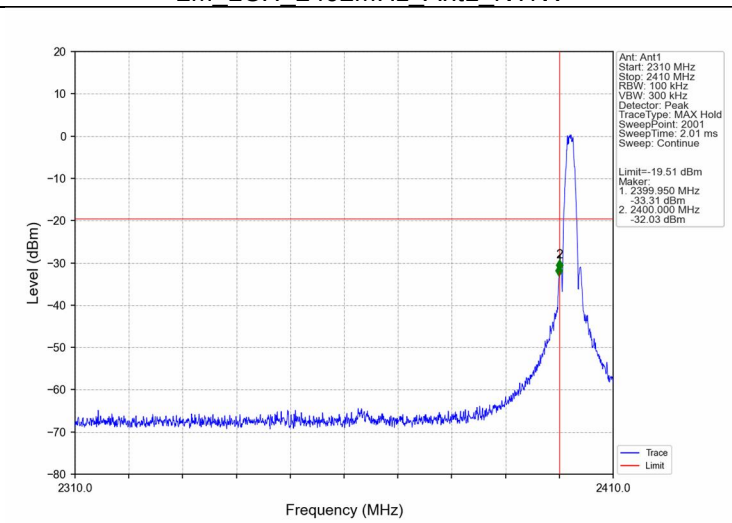
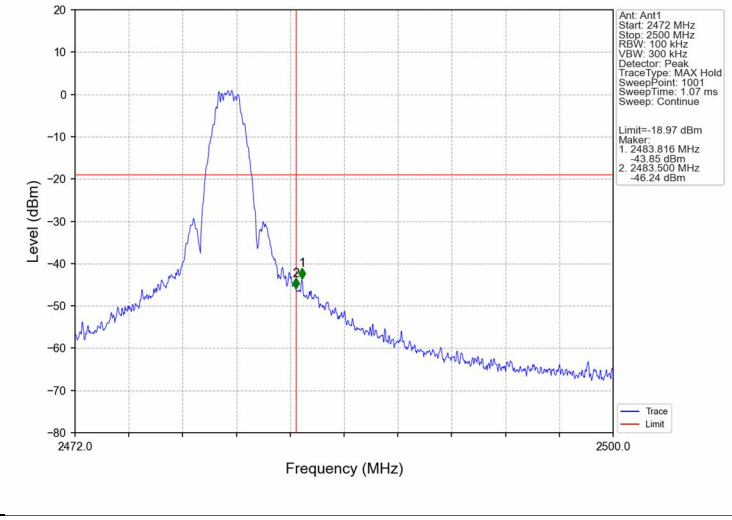
2M_LCH_2402MHz_Ant1_NTNV

2M_HCH_2480MHz_Ant1_NTNV


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9.8 Spurious Radiated Emissions for Transmitter

Test Method

1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10:

Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.
b) VBW \ [3 × RBW].
c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
e) Sweep time = auto.
f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

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1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission(AV) at frequency above 1GHz.

Limit

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 RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in§ 15.205(a) and RSS-Gen scetion8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

Frequency MHz	Field Strength μV/m	Field Strength dBμV/m	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dBμV/m)=Limit 300m(dBμV/m)+40Log(300m/3m) (Below 30MHz)
Note 2: Limit 3m(dBμV/m)=Limit 30m(dBμV/m)+40Log(30m/3m) (Below 30MHz)

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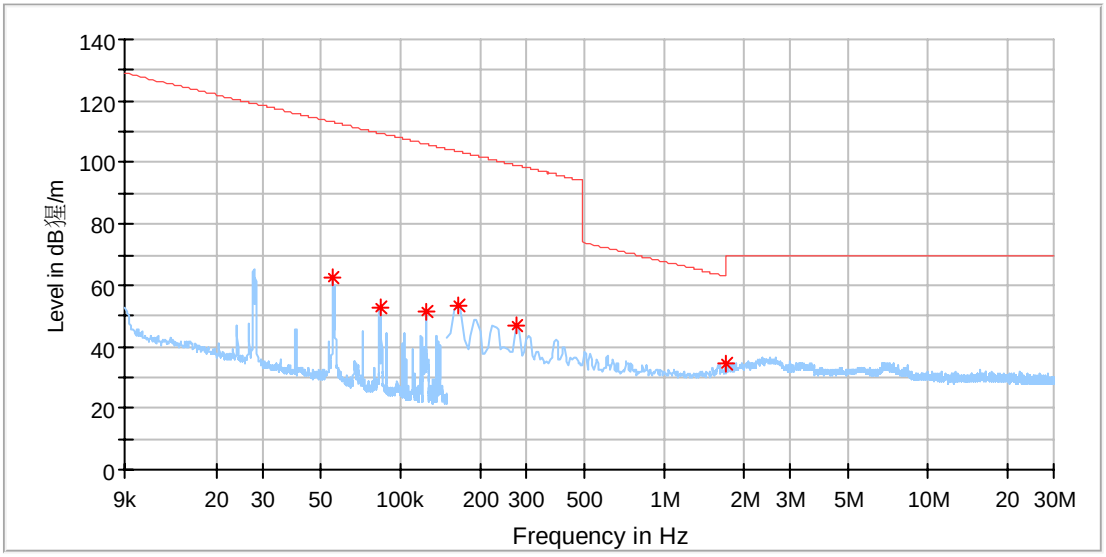
Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case test result is listed in the report.

Transmitting spurious emission test result as below:

Test data_9kHz to 30MHz
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.055483	62.68	113.07	50.39	H	209.0	19.92
0.083448	52.64	109.50	56.86	H	145.0	19.92
0.124620	51.43	105.99	54.56	H	292.0	19.92
0.164925	53.65	103.54	49.89	H	277.0	19.89
0.274375	46.84	99.08	52.24	H	208.0	19.90
1.702200	34.19	63.01	28.83	H	1.0	20.02

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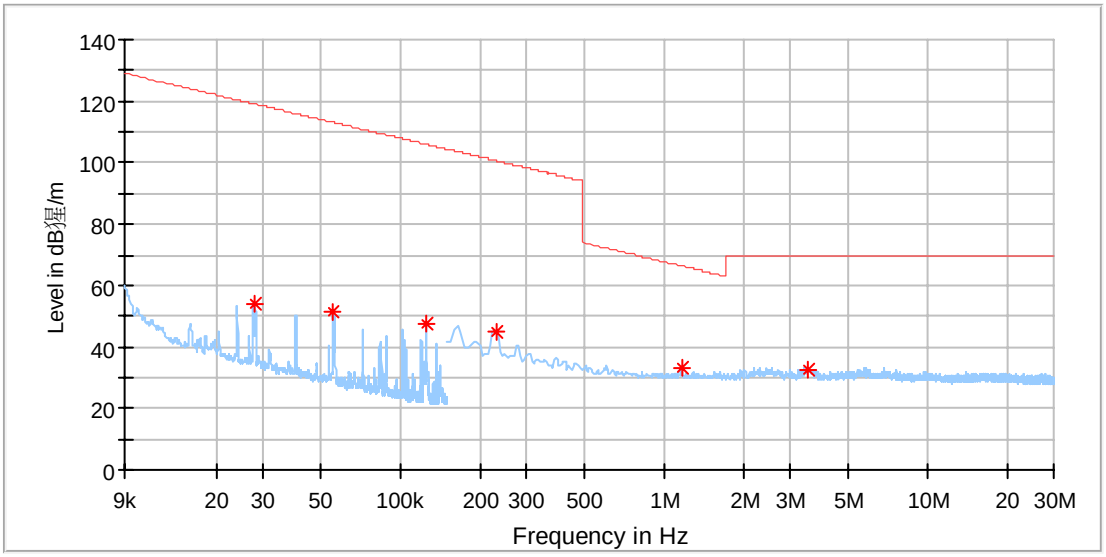
Test data_9kHz to 30MHz
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027753	54.06	119.14	65.08	V	286.0	19.88
0.055577	51.26	113.06	61.80	V	278.0	19.92
0.124620	47.53	105.99	58.46	V	0.0	19.92
0.229600	44.73	100.64	55.90	V	266.0	19.88
1.164900	33.00	66.36	33.36	V	109.0	19.94
3.498175	32.84	70.00	37.16	V	232.0	20.13

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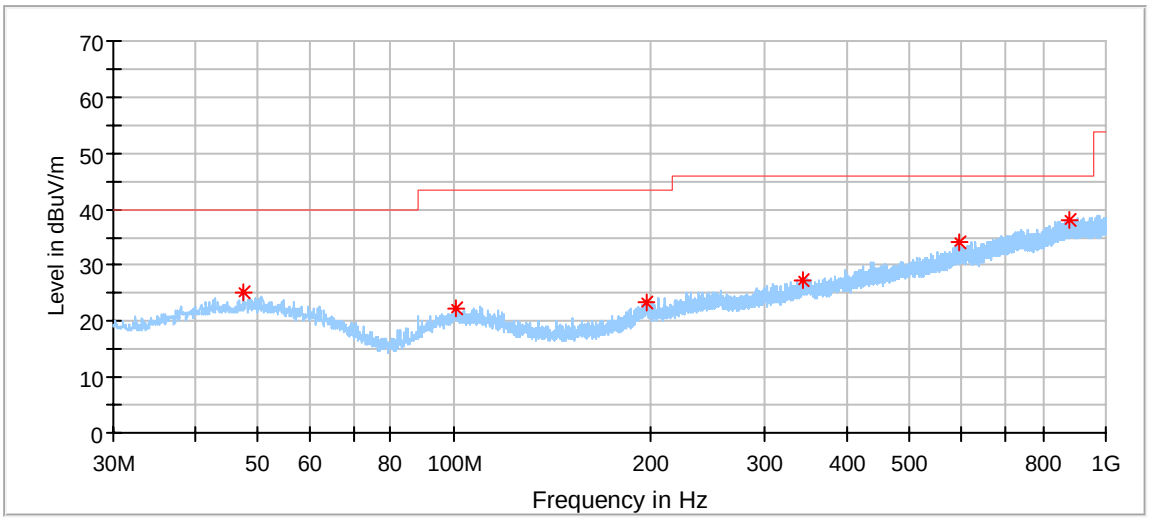
Test data_30MHz to 1000MHz
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.513889	25.10	40.00	14.90	200.0	H	47.0	18.22
101.025556	22.32	43.50	21.18	100.0	H	141.0	15.72
197.863889	23.22	43.50	20.28	100.0	H	291.0	16.51
344.064444	27.43	46.00	18.57	200.0	H	141.0	20.12
598.042778	34.20	46.00	11.80	200.0	H	38.0	25.14
878.265000	38.20	46.00	7.80	200.0	H	47.0	29.26

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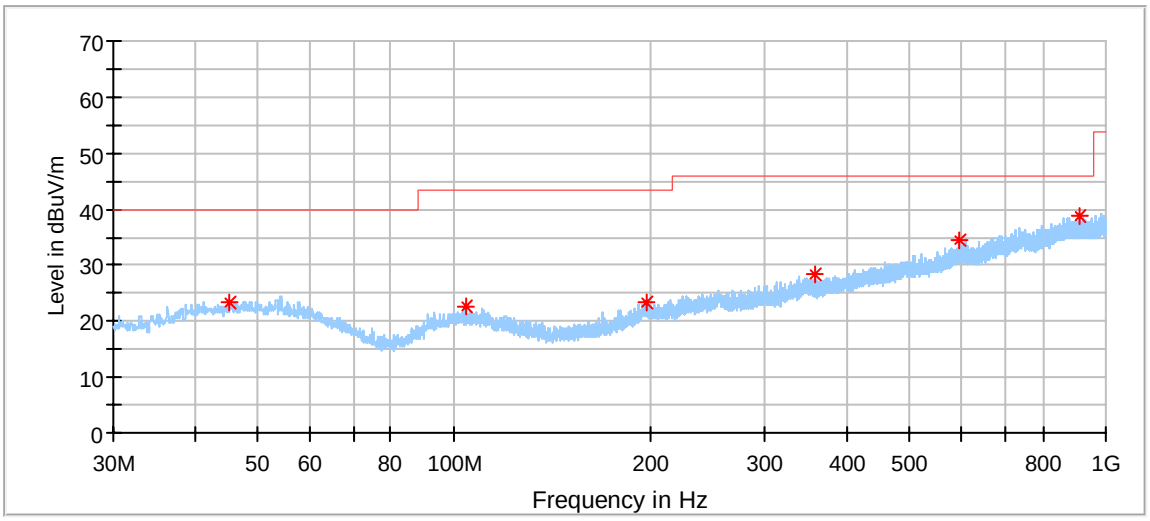
Test data_30MHz to 1000MHz
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.196667	23.46	40.00	16.54	200.0	V	11.0	18.00
104.043333	22.53	43.50	20.97	200.0	V	93.0	15.73
197.325000	23.49	43.50	20.01	200.0	V	20.0	16.51
358.668333	28.47	46.00	17.53	200.0	V	61.0	19.79
596.857222	34.31	46.00	11.69	200.0	V	46.0	25.13
909.897778	38.88	46.00	7.12	200.0	V	125.0	29.46

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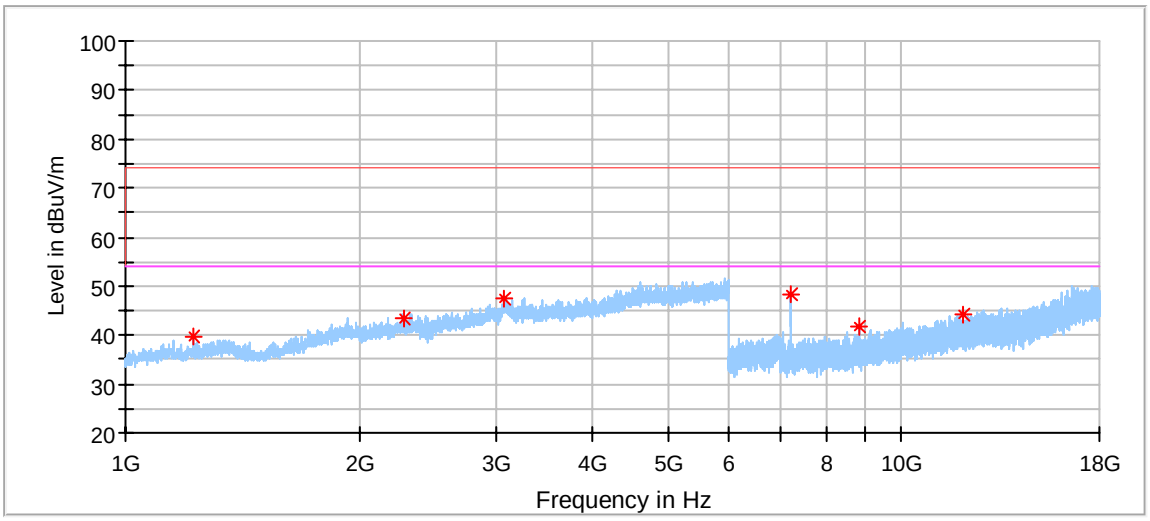
Test data 1GHz to 18GHz:
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1224.500000	39.66	74.00	34.34	150.0	H	262.0	-7.72
2287.000000	43.39	74.00	30.61	150.0	H	226.0	-1.95
3082.000000	47.38	74.00	26.62	150.0	H	214.0	2.13
7204.500000	48.41	74.00	25.59	150.0	H	132.0	8.73
8815.000000	41.88	74.00	32.12	150.0	H	31.0	11.32
12007.500000	44.19	74.00	29.81	150.0	H	82.0	16.22

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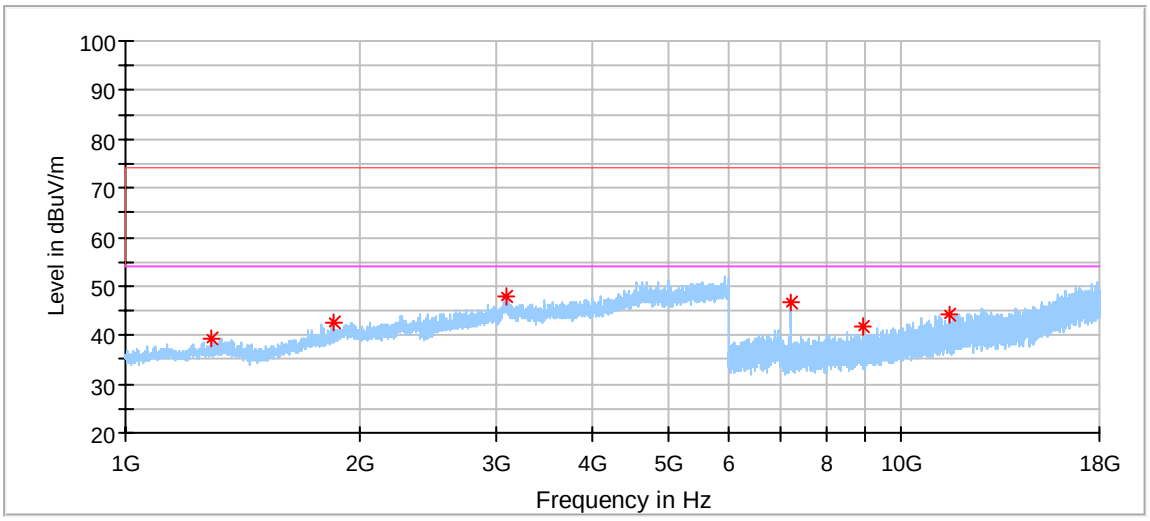
Test data 1GHz to 18GHz:
BLE _Low Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1289.000000	39.13	74.00	34.87	150.0	V	274.0	-7.34
1857.500000	42.71	74.00	31.29	150.0	V	115.0	-3.76
3090.000000	47.79	74.00	26.21	150.0	V	262.0	2.37
7207.500000	46.60	74.00	27.40	150.0	V	181.0	8.73
8903.500000	41.77	74.00	32.23	150.0	V	282.0	11.40
11539.000000	44.15	74.00	29.85	150.0	V	353.0	15.23

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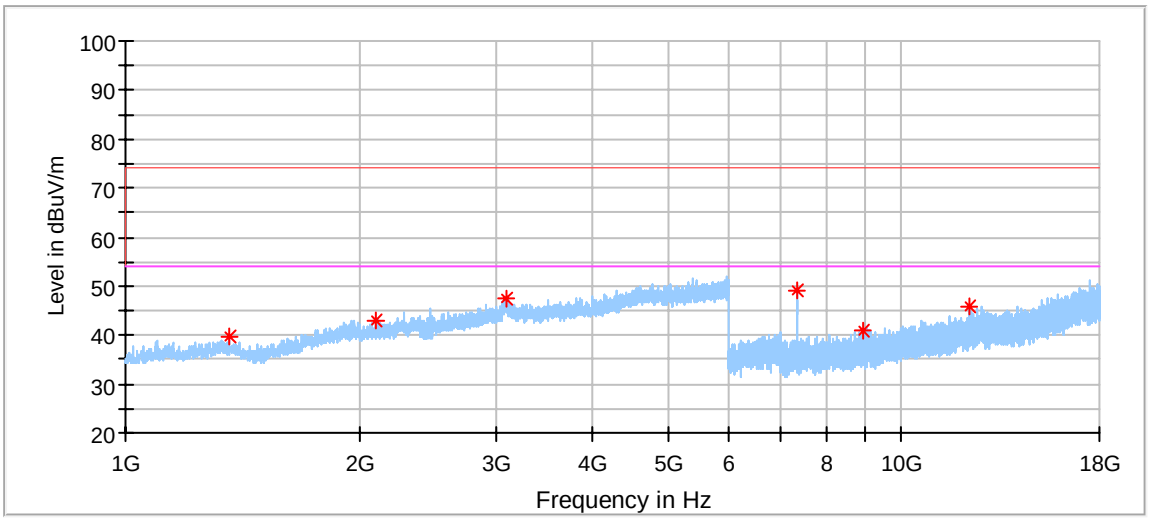
Test data 1GHz to 18GHz:
BLE _Middle Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1360.000000	39.56	74.00	34.44	150.0	H	35.0	-6.71
2106.500000	43.06	74.00	30.94	150.0	H	179.0	-2.85
3087.500000	47.46	74.00	26.54	150.0	H	59.0	2.29
7318.500000	49.26	74.00	24.74	150.0	H	134.0	9.38
8926.000000	41.01	74.00	32.99	150.0	H	352.0	11.42
12198.500000	45.85	74.00	28.15	150.0	H	84.0	16.20

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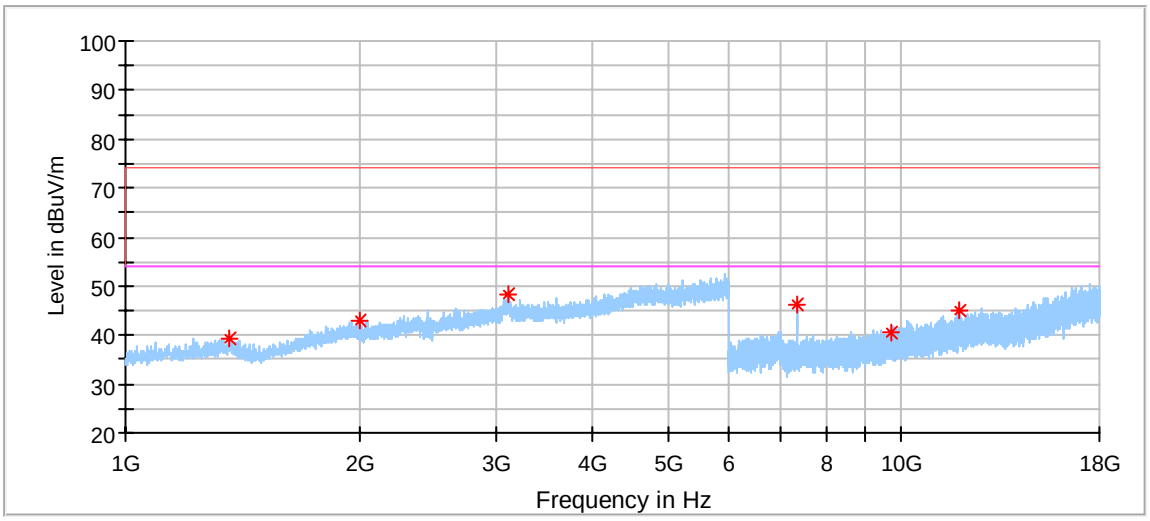
Test data 1GHz to 18GHz:
BLE _Middle Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1361.000000	39.45	74.00	34.55	150.0	V	10.0	-6.72
2005.500000	42.93	74.00	31.07	150.0	V	144.0	-3.21
3116.500000	48.49	74.00	25.51	150.0	V	144.0	2.02
7319.000000	46.12	74.00	27.88	150.0	V	181.0	9.38
9675.000000	40.64	74.00	33.36	150.0	V	31.0	12.60
11862.000000	45.13	74.00	28.87	150.0	V	279.0	16.24

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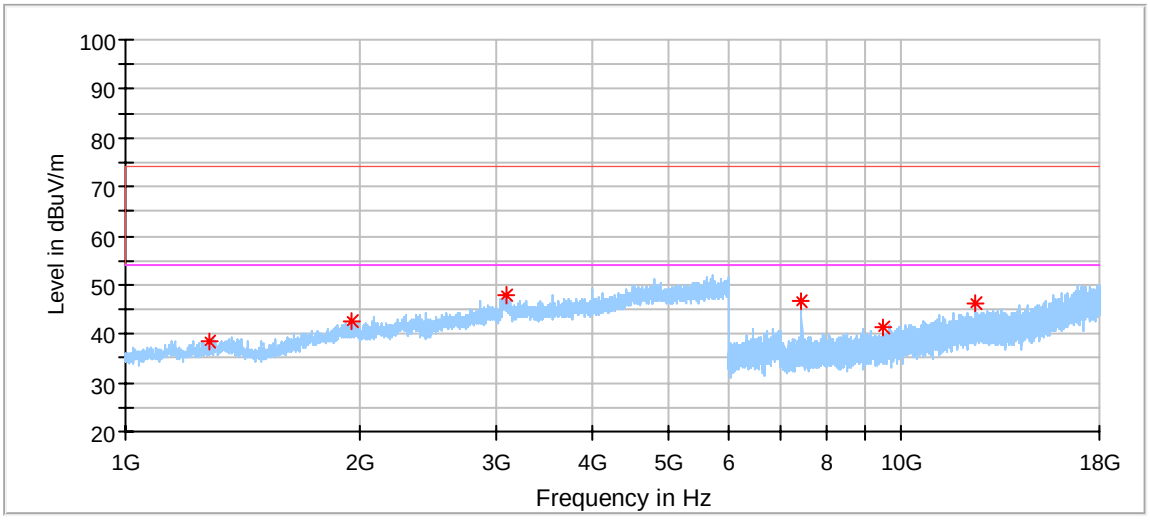
Test data 1GHz to 18GHz:
BLE _High Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1284.500000	38.65	74.00	35.35	150.0	H	189.0	-7.37
1955.500000	42.68	74.00	31.32	150.0	H	22.0	-2.84
3087.000000	47.81	74.00	26.19	150.0	H	228.0	2.28
7438.500000	46.81	74.00	27.19	150.0	H	157.0	9.48
9496.500000	41.41	74.00	32.59	150.0	H	206.0	12.27
12440.000000	46.11	74.00	27.89	150.0	H	108.0	16.27

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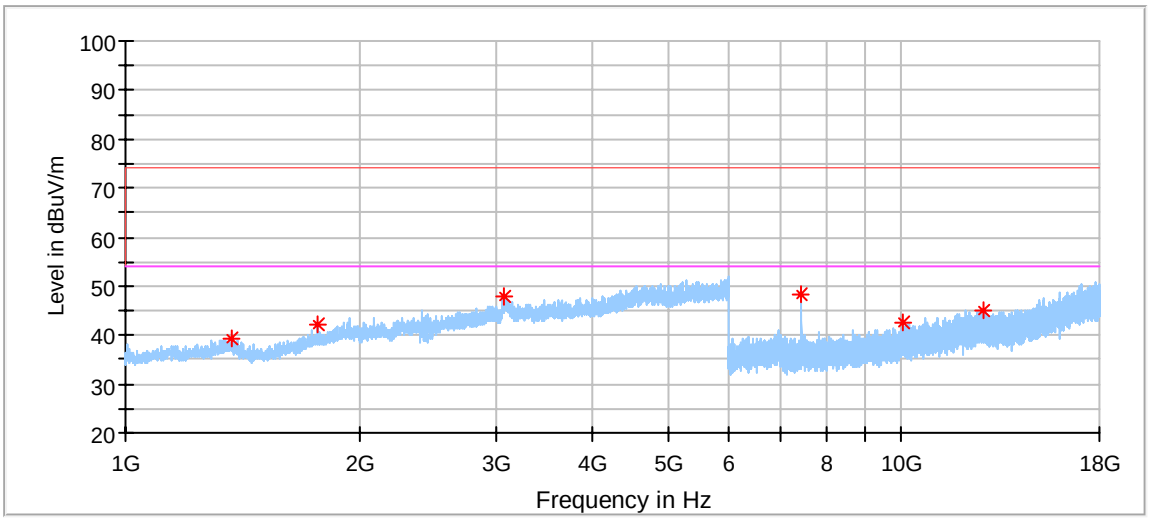
Shenzhen City, 518052, P. R. China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299

Test data 1GHz to 18GHz:
BLE _High Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1367.500000	39.46	74.00	34.54	150.0	V	79.0	-6.80
1770.500000	42.06	74.00	31.94	150.0	V	347.0	-4.77
3083.500000	48.06	74.00	25.94	150.0	V	103.0	2.17
7438.500000	48.12	74.00	25.88	150.0	V	157.0	9.48
10065.000000	42.47	74.00	31.53	150.0	V	82.0	12.86
12763.500000	45.14	74.00	28.86	150.0	V	331.0	16.38

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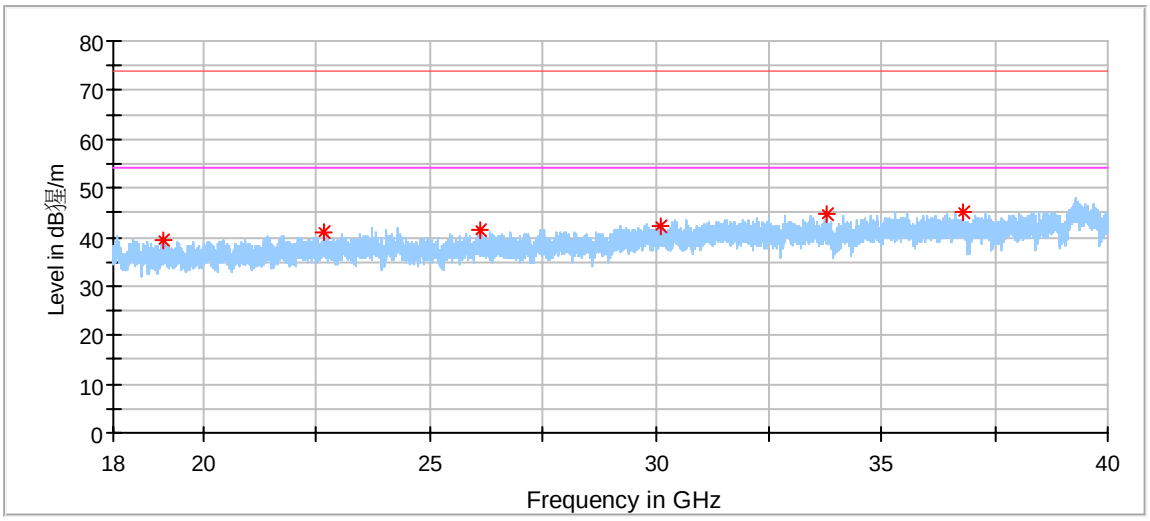
Test data 18GHz to 40GHz:
BLE _High Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19128.875000	39.41	74.00	34.59	150.0	H	45.0	-4.34
22670.875000	40.92	74.00	33.08	150.0	H	19.0	-0.79
26116.625000	41.51	74.00	32.49	150.0	H	289.0	0.81
30128.187500	42.09	74.00	31.91	150.0	H	208.0	0.82
33773.312500	44.57	74.00	29.43	150.0	H	302.0	1.07
36823.062500	45.08	74.00	28.92	150.0	H	208.0	2.50

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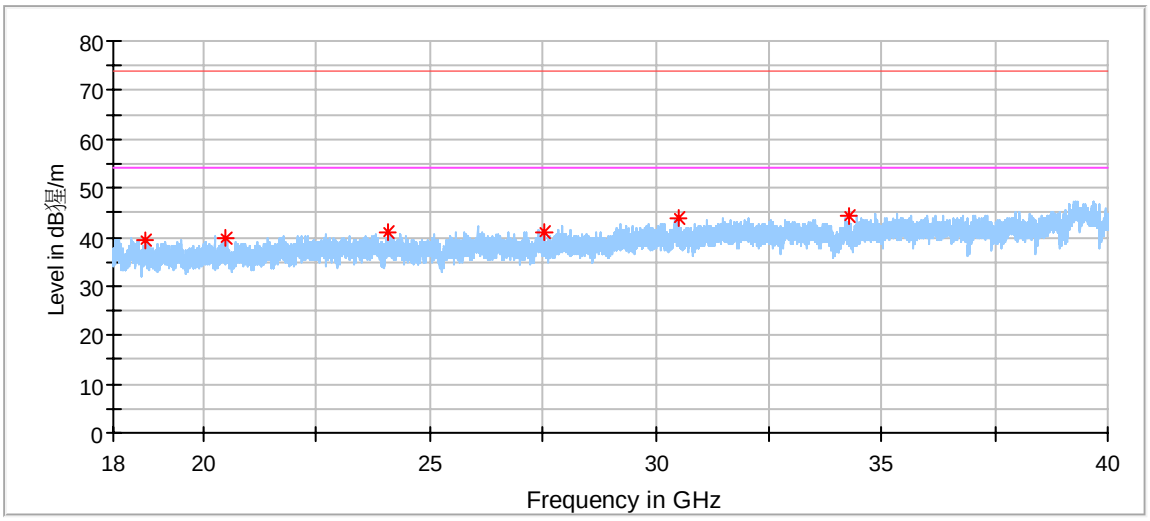
Test data 18GHz to 40GHz:
BLE _High Channel:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18692.312500	39.32	74.00	34.68	150.0	V	312.0	-4.37
20475.000000	39.62	74.00	34.38	150.0	V	4.0	-3.09
24083.687500	40.83	74.00	33.17	150.0	V	245.0	-0.19
27526.000000	41.22	74.00	32.78	150.0	V	358.0	1.12
30513.875000	43.70	74.00	30.30	150.0	V	112.0	1.00
34273.125000	44.37	74.00	29.63	150.0	V	71.0	1.05

Remark:
(1) We test both rates for Low channel, Middle channel and High channel separately, only the worst case recorded in this report.
(2) Corrected Amplitude = Read level + Corrector factor
Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

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10 Test Equipment List

Radiated Emission Test 1# (9kHz – 1GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	2025-5-13
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	2025-7-2
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	2025-7-24
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	2025-5-11
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	2025-7-2
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	2025-7-17
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	2025-5-11
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A

Radiated Emission 2# Test (1GHz – 40GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	2025-5-13
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	2026-3-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	2025-5-11
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	2025-7-2
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	2025-7-17
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	2025-5-11
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A

Conducted RF Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	2025-5-11
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157W	68-4-93-14-003	101226/100929	2025-5-11
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	2025-5-11
10dB Attenuator	Weinschel	4M-10	68-4-81-14-003	43152	2025-5-11
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	2025-5-11
10dB Attenuator	R&S	DNF	68-4-81-14-005	DNF-002	2025-5-11
10dB Attenuator	R&S	DNF	68-4-81-14-006	DNF-003	2025-5-11
10dB Attenuator	R&S	DNF	68-4-81-14-007	DNF-004	2025-5-11
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	2025-10-15

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	2025-5-13
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	2025-5-12
Test software	Rohde & Schwarz	EMC32	68-4-90-14-003-A10	Version9.15.00	N/A
Shielding Room	TDK	CSR #1	68-4-90-19-004	----	2025-10-15

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11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432 or ENV4200)	3.57dB
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.70dB
Uncertainty for Radiated Emission in new 3m chamber 30MHz-1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB
Uncertainty for Radiated Emission in new 3m 1000MHz-18000MHz	Horizontal: 5.08dB; Vertical: 5.09dB;
Uncertainty for Radiated Emission 18000MHz-40000MHz	Horizontal: 4.52dB; Vertical: 4.51dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10^{-8} or 1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.

---THE END OF REPORT---

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