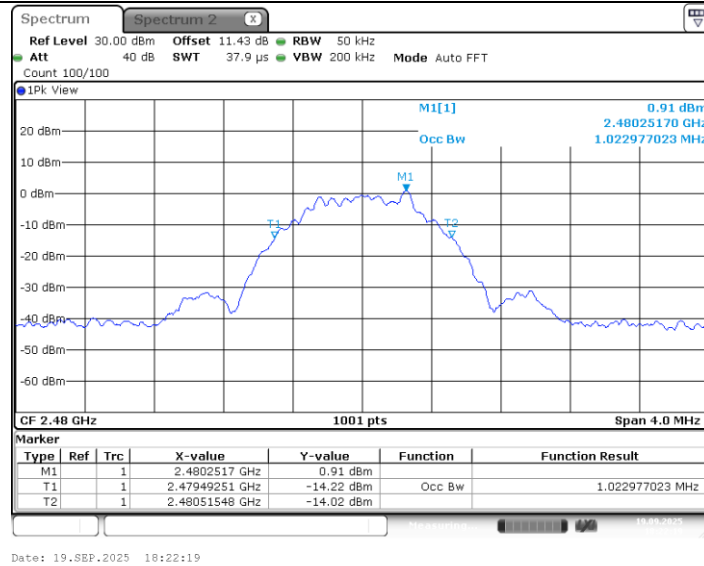
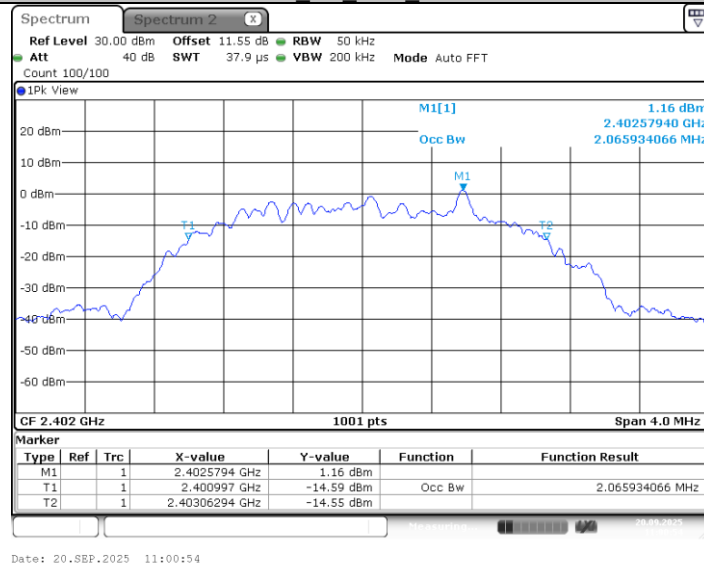
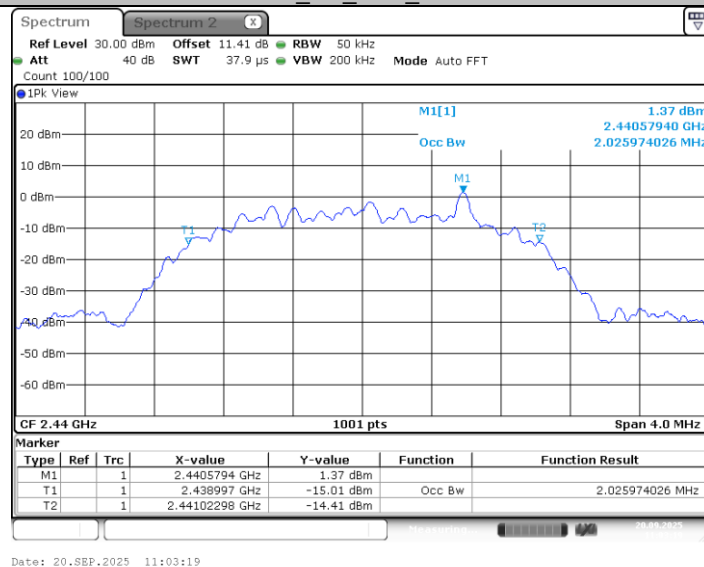




BLE 2M Ant1_2402



BLE 2M Ant1_2440



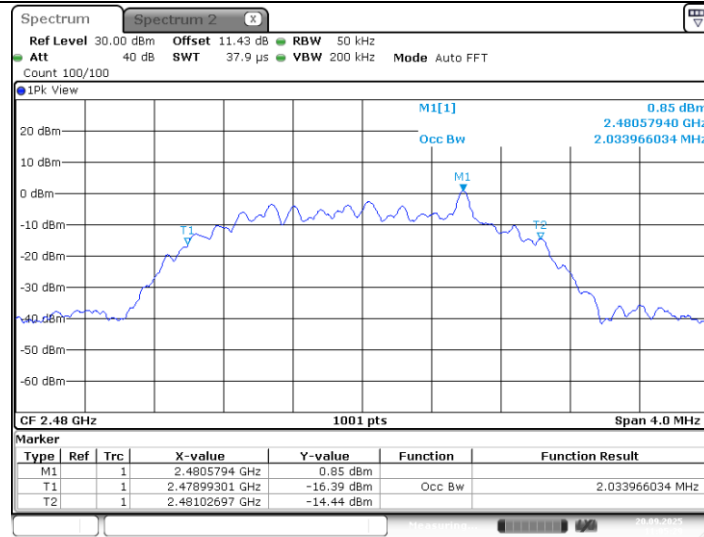
BLE 2M Ant1_2480

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Date: 20.SEP.2025 11:05:29



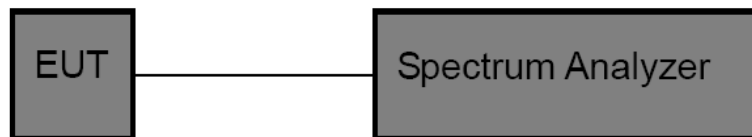
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Set RBW $\geq$ DTS Bandwidth.
 - (2) Set VBW $\geq$ 3*RBW.
 - (3) Set Span $\geq$ 3*RBW.
 - (4) Sweep time = Auto couple.
 - (5) Detector = Peak.
 - (6) Trace mode = Max hold.Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

L Test Result

Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	FCC Limit (dBm)	Verdict
BLE_1M	2402	3.87	≤ 30	Pass
	2440	2.74	≤ 30	Pass
	2480	2.58	≤ 30	Pass
BLE_2M	2402	3.34	≤ 30	Pass
	2440	2.53	≤ 30	Pass
	2480	2.02	≤ 30	Pass

R Test Result

Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	FCC Limit (dBm)	Verdict
BLE_1M	2402	4.01	≤ 30	Pass
	2440	3.50	≤ 30	Pass
	2480	2.97	≤ 30	Pass
BLE_2M	2402	3.93	≤ 30	Pass
	2440	3.45	≤ 30	Pass
	2480	2.88	≤ 30	Pass

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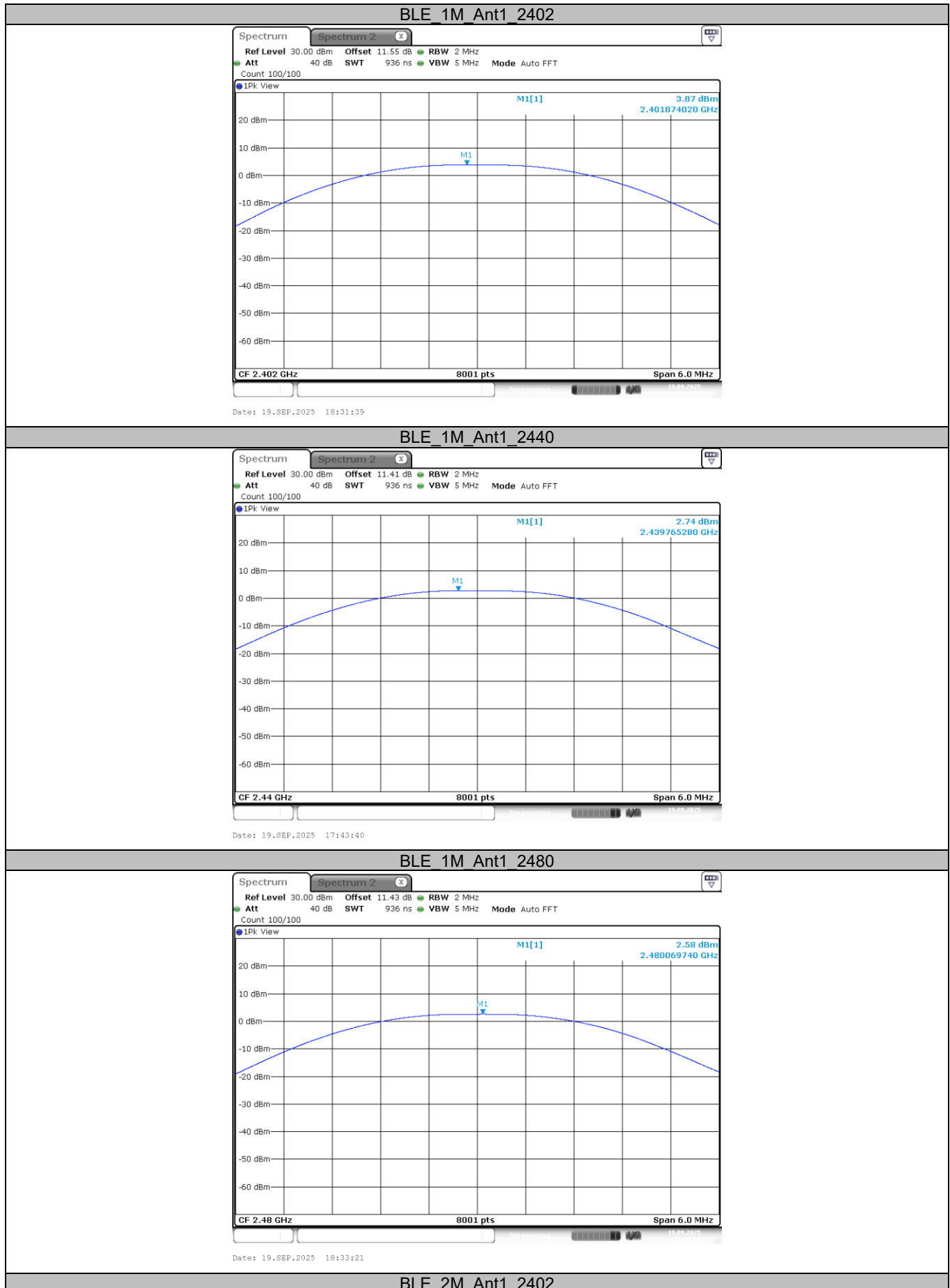
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L Test plot as follows:

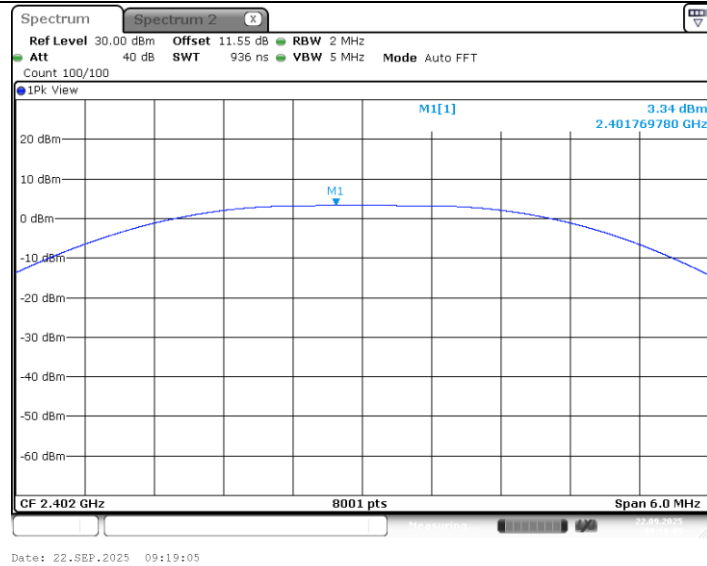


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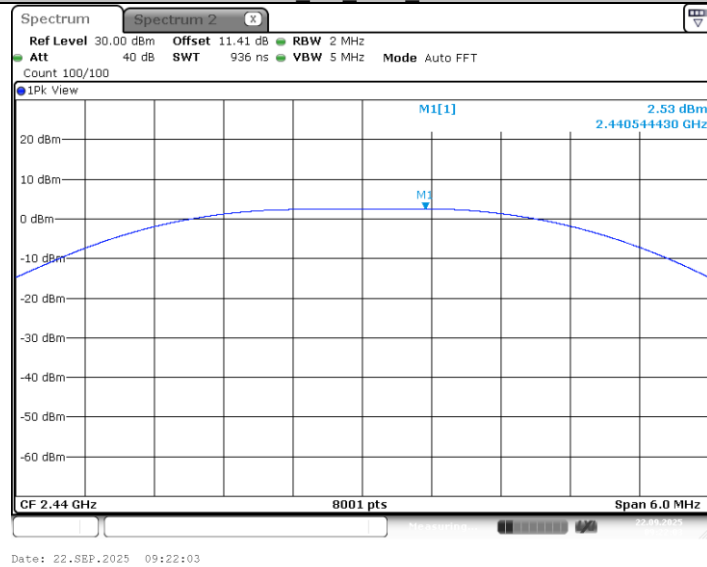
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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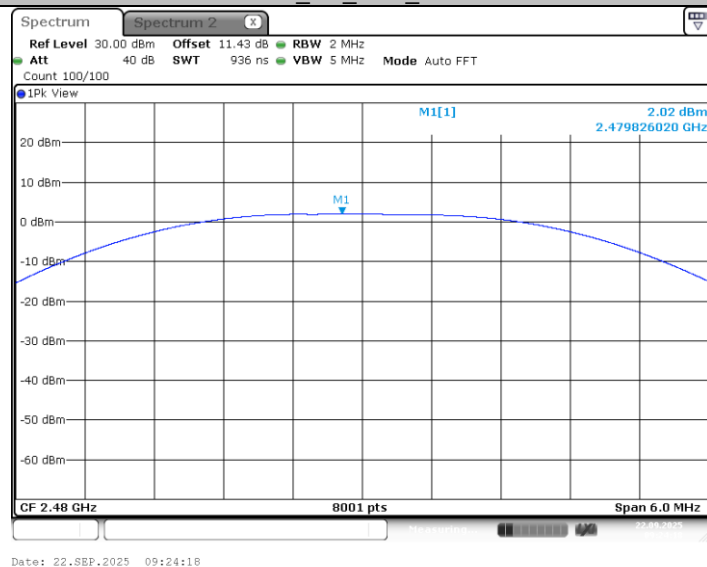
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BLE 2M Ant1_2440



BLE 2M Ant1_2480



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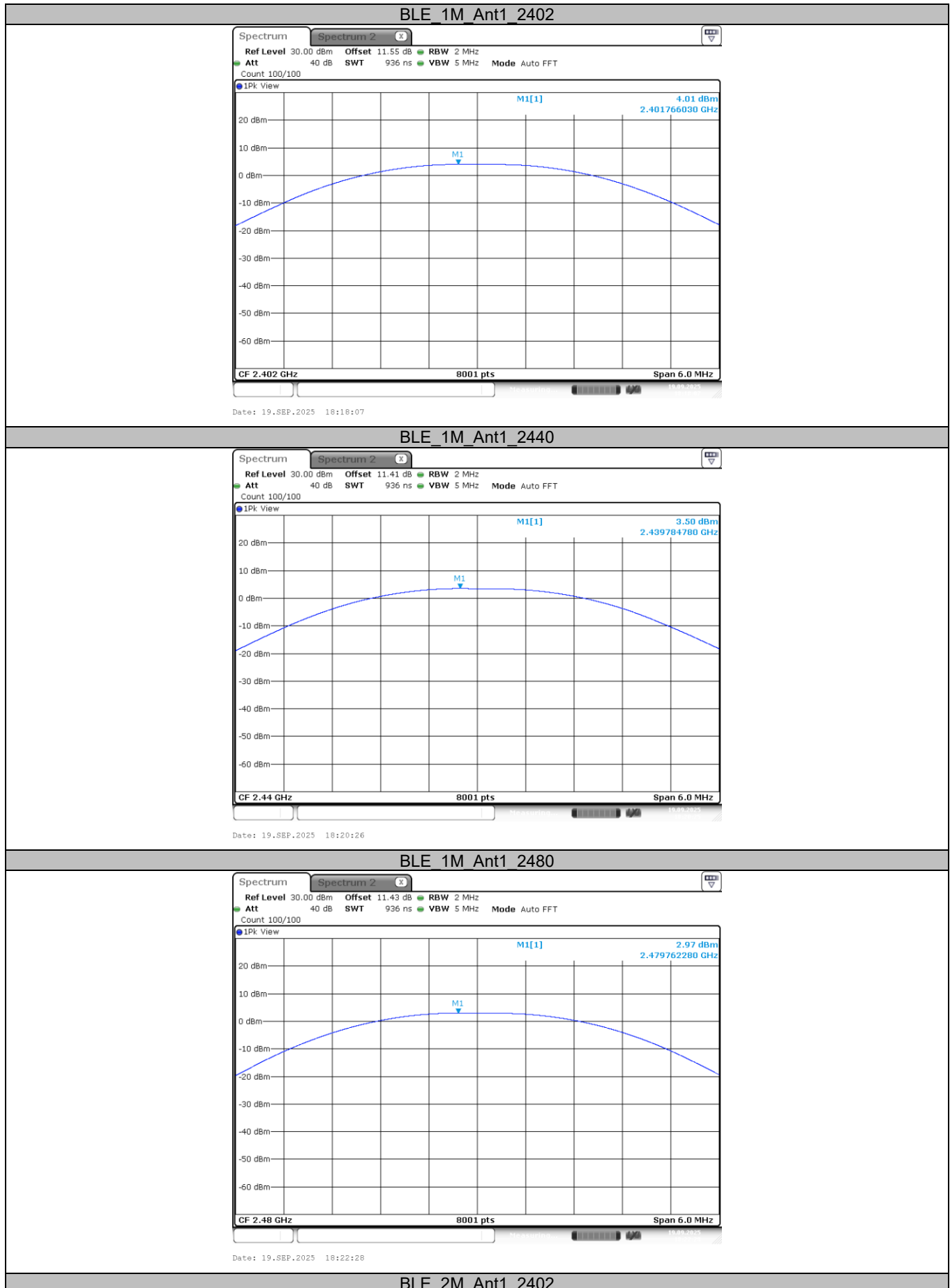
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
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R Test plot as follows:

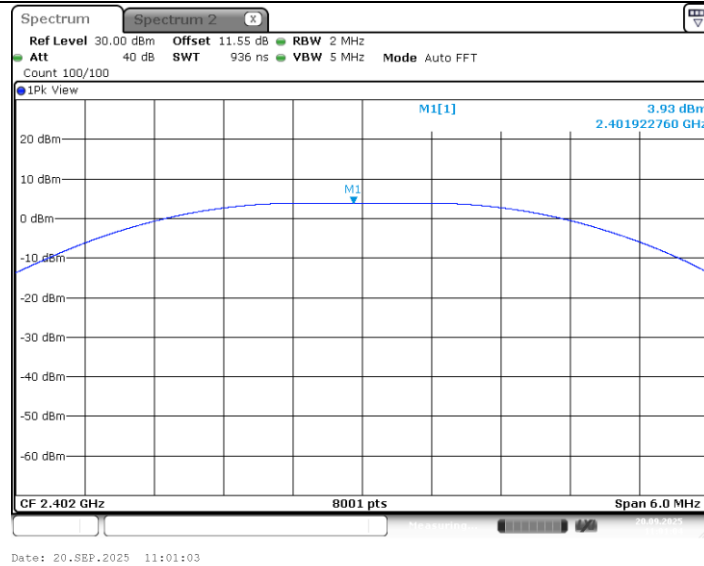


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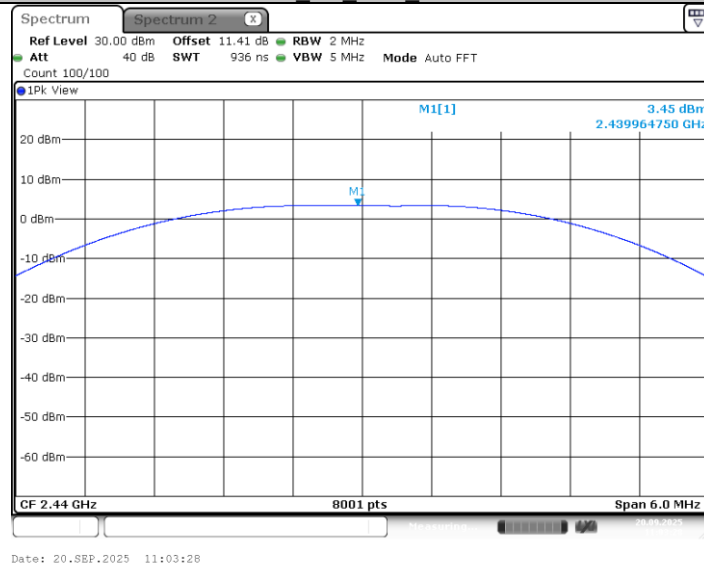
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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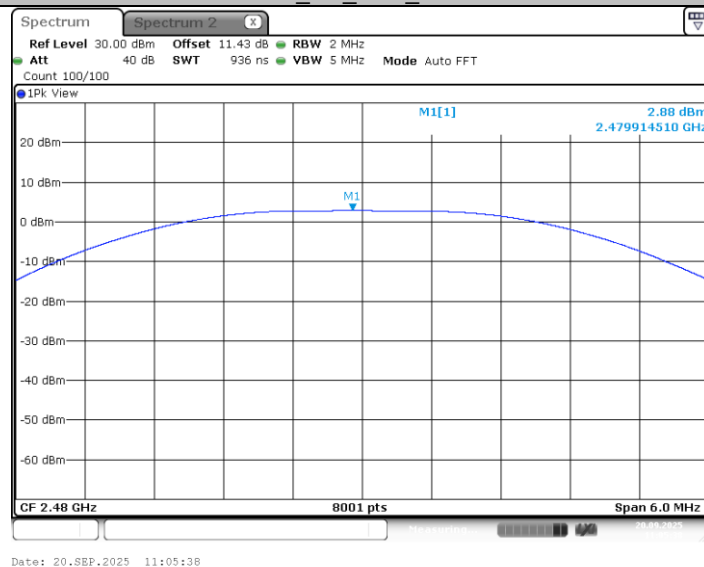
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BLE 2M Ant1_2440



BLE 2M Ant1_2480



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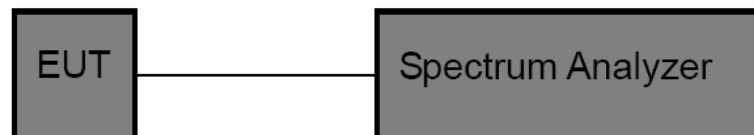
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

L Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.75	≤8.00	PASS
		2440	-13.89	≤8.00	PASS
		2480	-14.47	≤8.00	PASS
BLE_2M	Ant1	2402	-15.08	≤8.00	PASS
		2440	-15.67	≤8.00	PASS
		2480	-16.41	≤8.00	PASS

R Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.27	≤8.00	PASS
		2440	-11.91	≤8.00	PASS
		2480	-12.49	≤8.00	PASS
BLE_2M	Ant1	2402	-13.93	≤8.00	PASS
		2440	-15.09	≤8.00	PASS
		2480	-15.84	≤8.00	PASS

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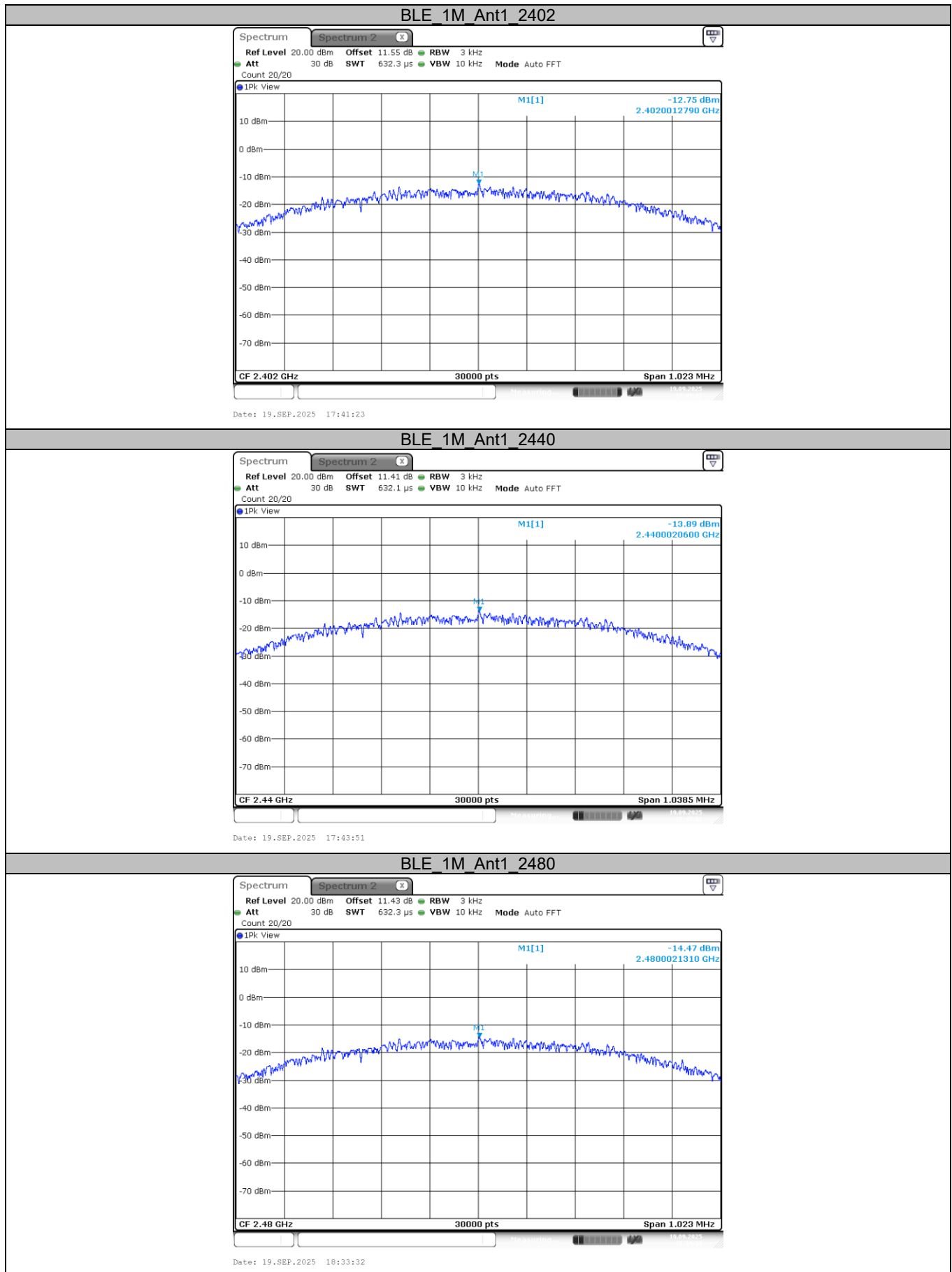
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L Test plot as follows:



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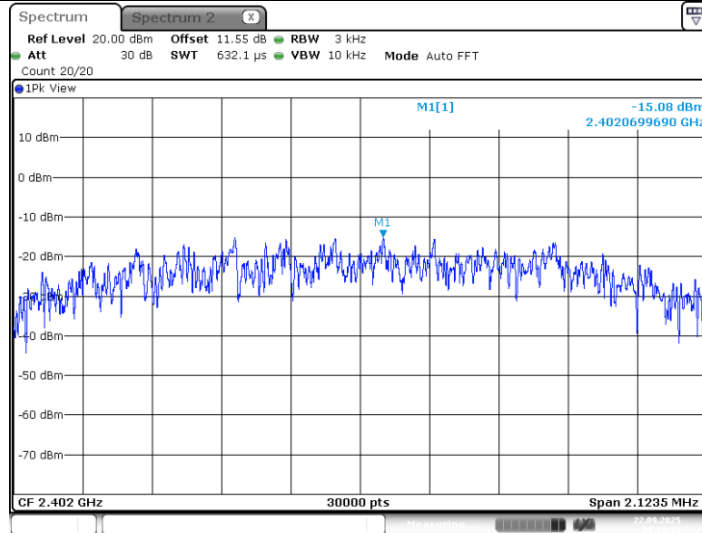
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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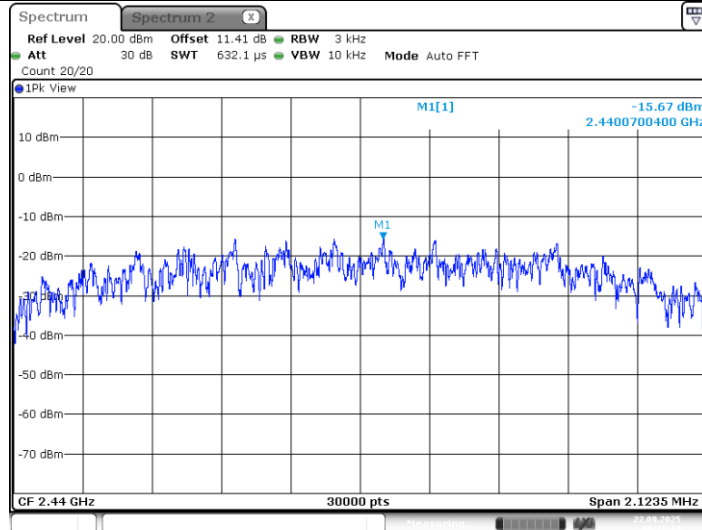


BLE 2M Ant1 2402



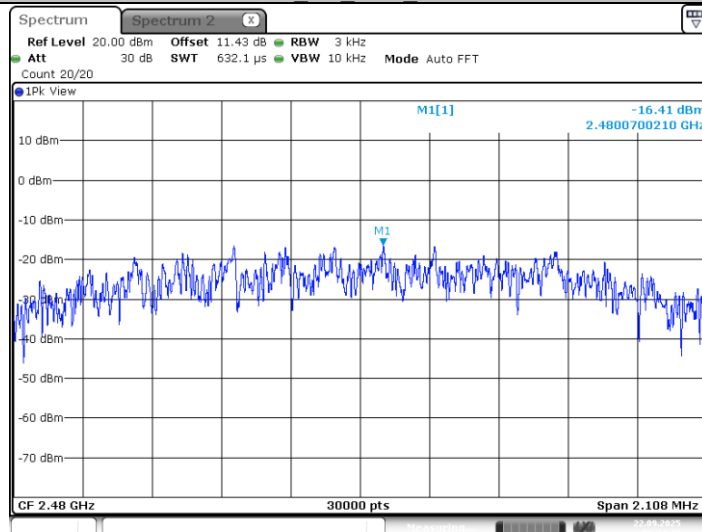
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BLE 2M Ant1 2440



Date: 22.SEP.2025 09:22:14

BLE 2M Ant1 2480



Date: 22.SEP.2025 09:24:29

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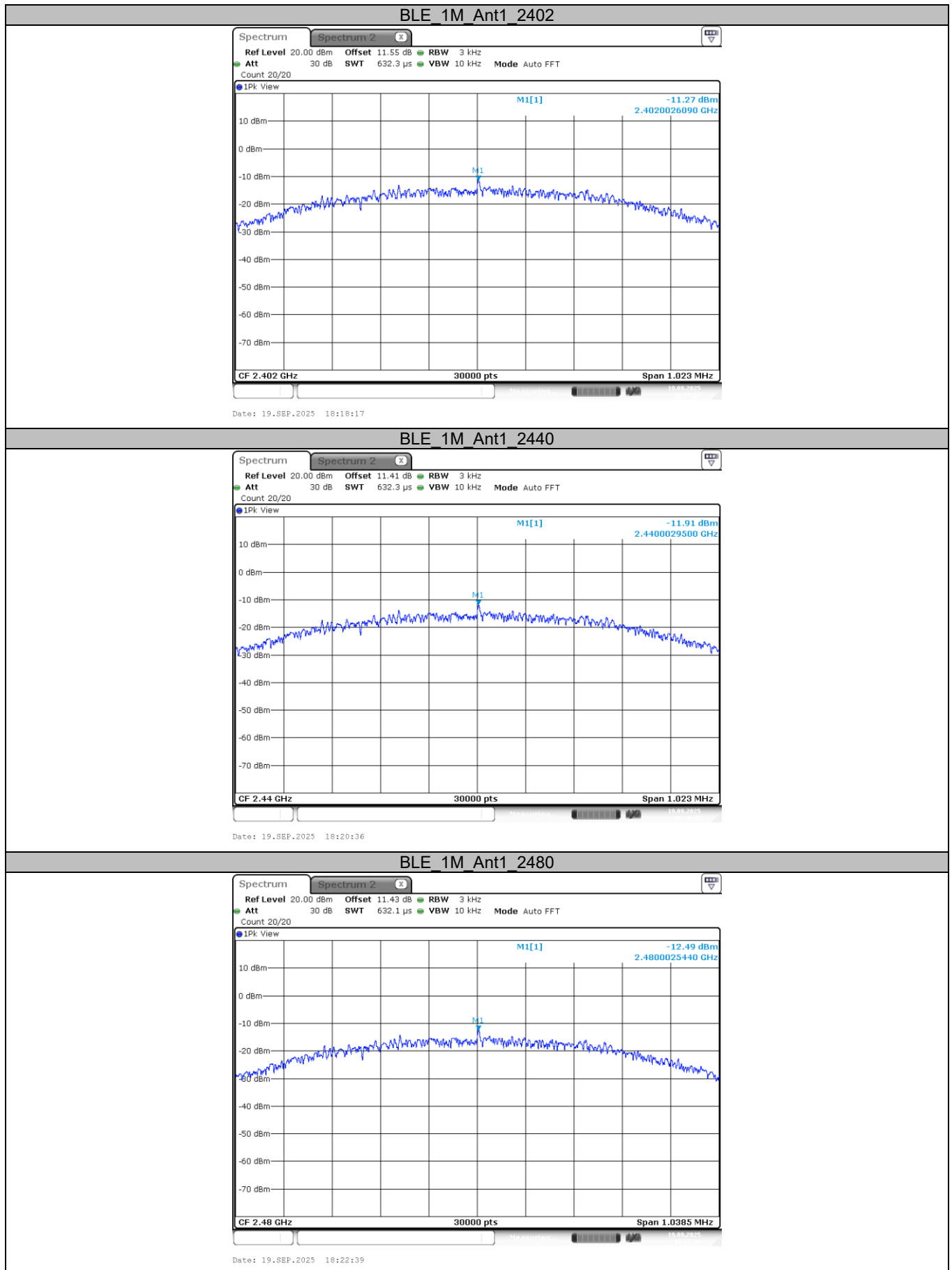
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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R Test plot as follows:



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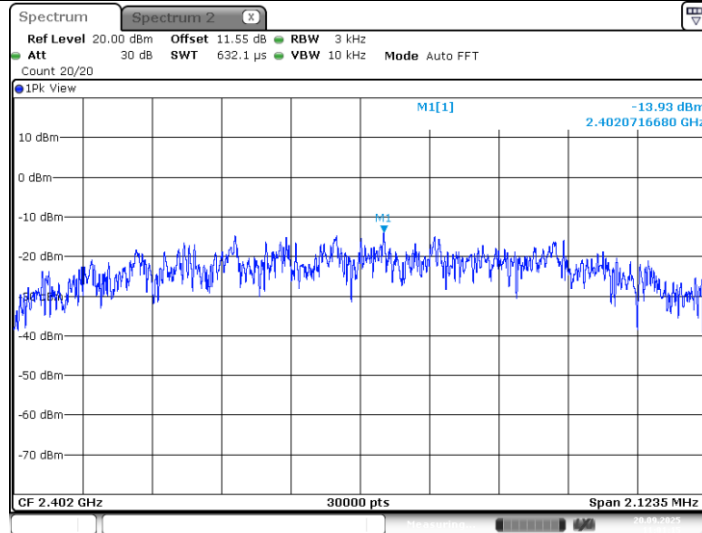
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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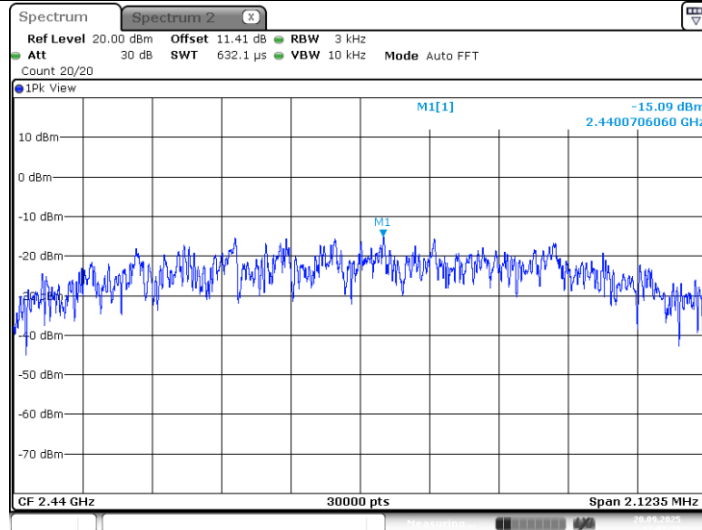


BLE 2M Ant1 2402



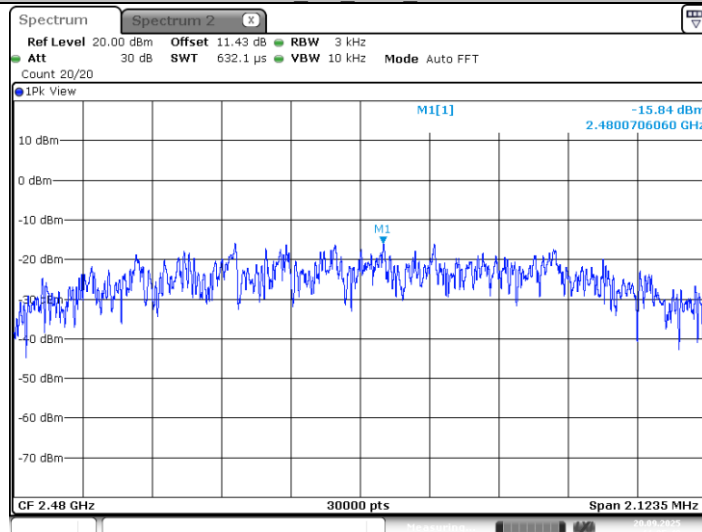
Date: 20.SEP.2025 11:01:14

BLE 2M Ant1 2440



Date: 20.SEP.2025 11:03:39

BLE 2M Ant1 2480



Date: 20.SEP.2025 11:05:49

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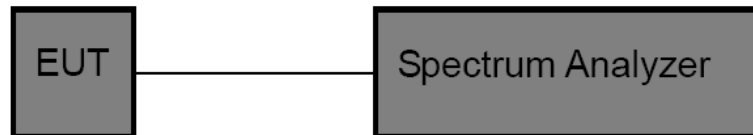


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

L Test Result

Test Mode	Frequency (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
BLE_1M	2402	2.15	2.50	86.00	0.47	1
	2440	2.15	2.50	86.00	0.47	1
	2480	2.15	2.50	86.00	0.47	1
BLE_2M	2402	1.09	1.88	57.98	0.92	1
	2440	1.09	1.88	57.98	0.92	1
	2480	1.09	1.87	58.29	0.92	1

R Test Result

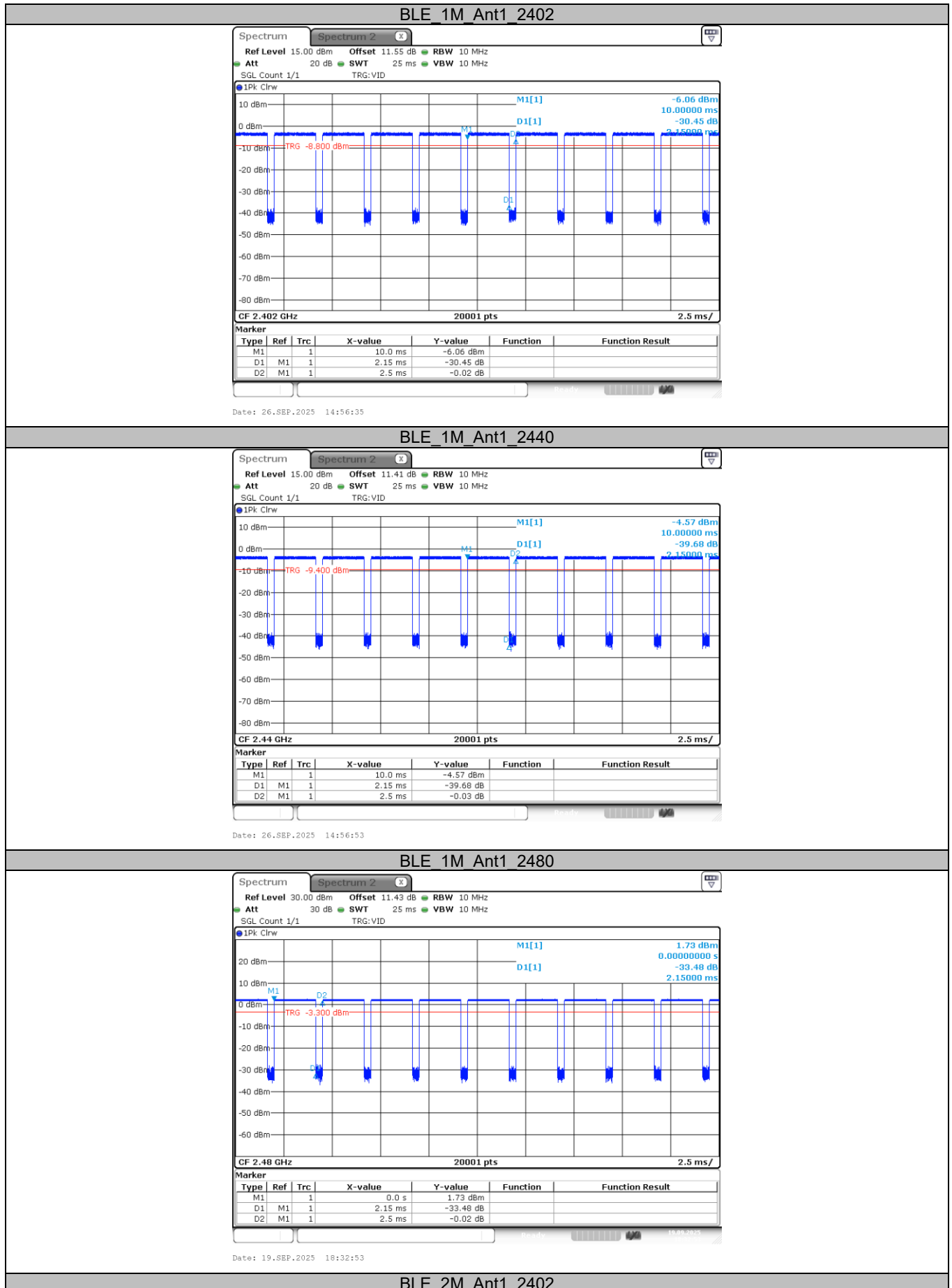
Test Mode	Frequency (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
BLE_1M	2402	2.15	2.50	86.00	0.47	1
	2440	2.15	2.50	86.00	0.47	1
	2480	2.15	2.50	86.00	0.47	1
BLE_2M	2402	1.09	1.88	57.98	0.92	1
	2440	1.09	1.88	57.98	0.92	1
	2480	1.09	1.88	57.98	0.92	1

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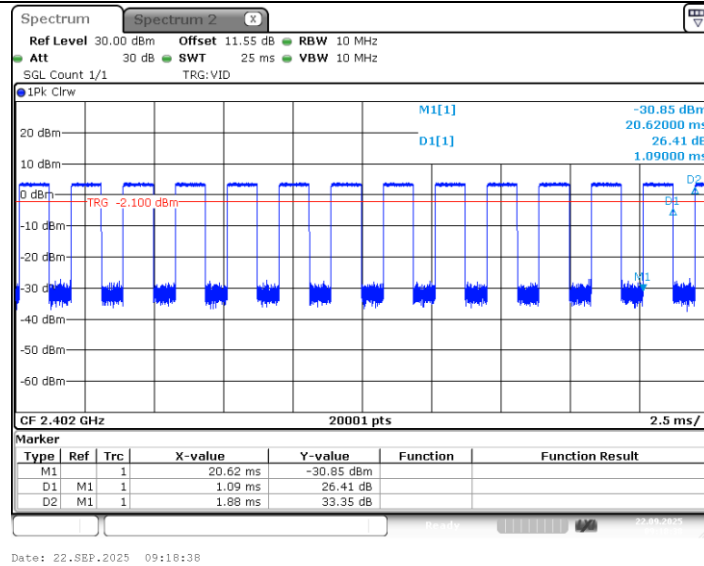
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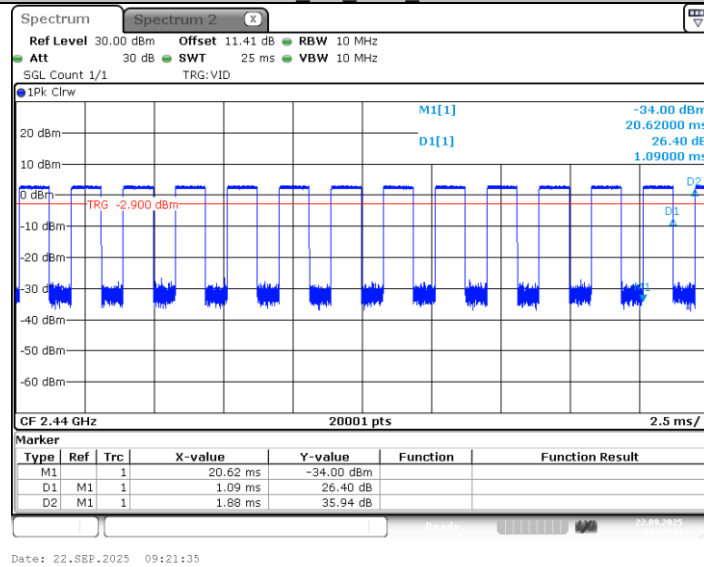
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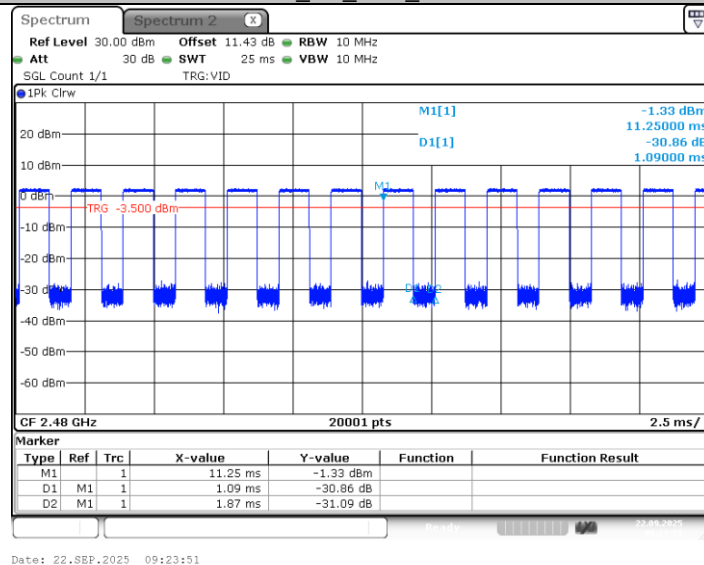
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BLE 2M Ant1_2480



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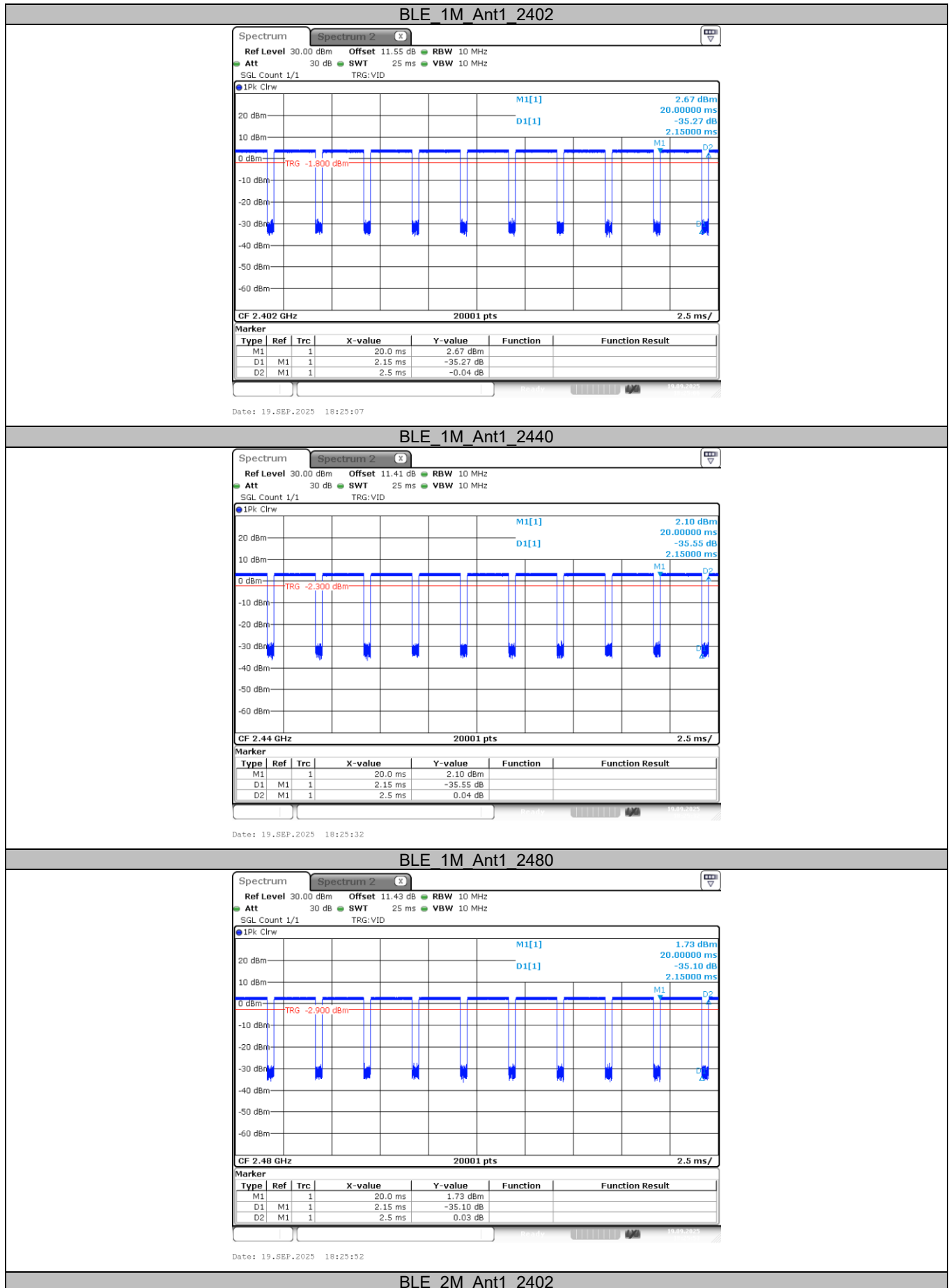
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R Test plot as follows:

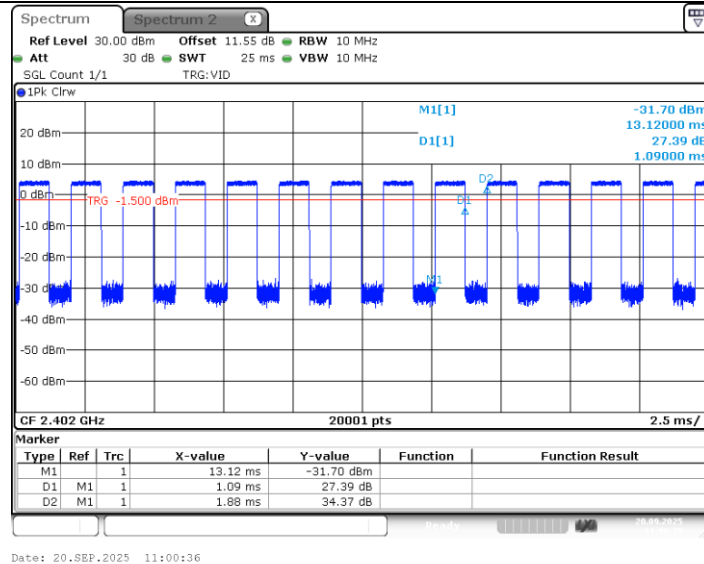


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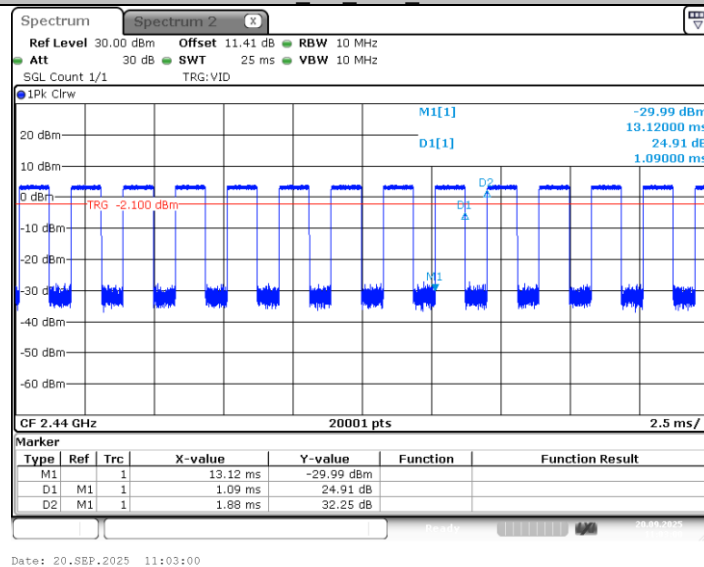
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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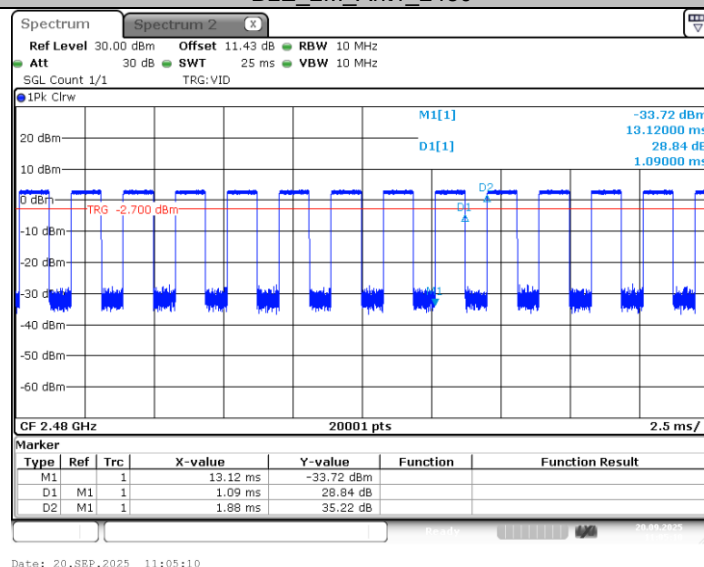
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BLE 2M Ant1_2440



BLE 2M Ant1_2480



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3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 antenna that uses a unique coupling to the intentional radiator, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

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