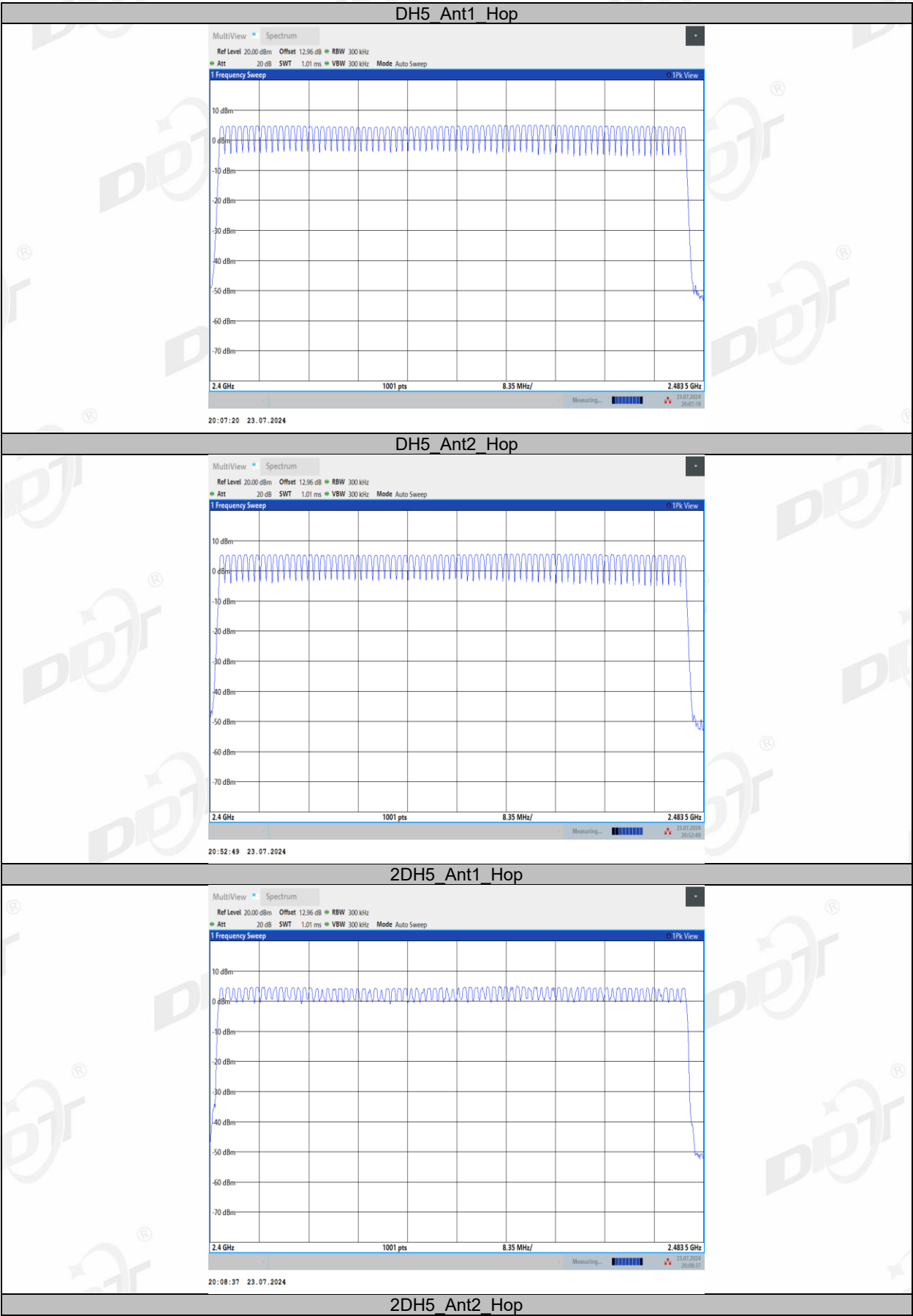
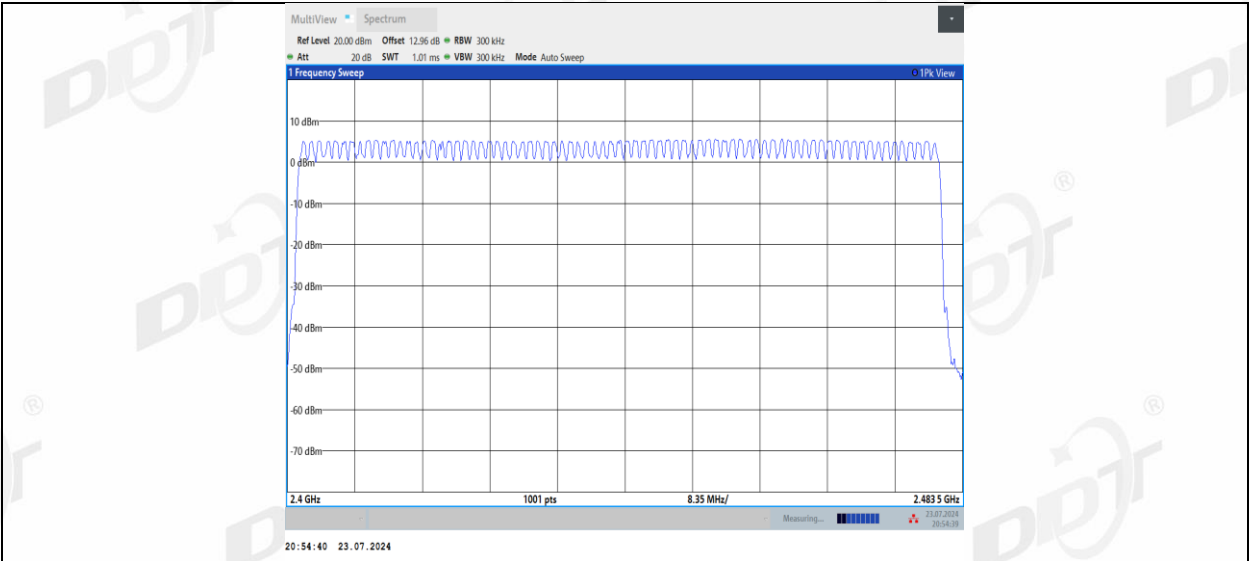
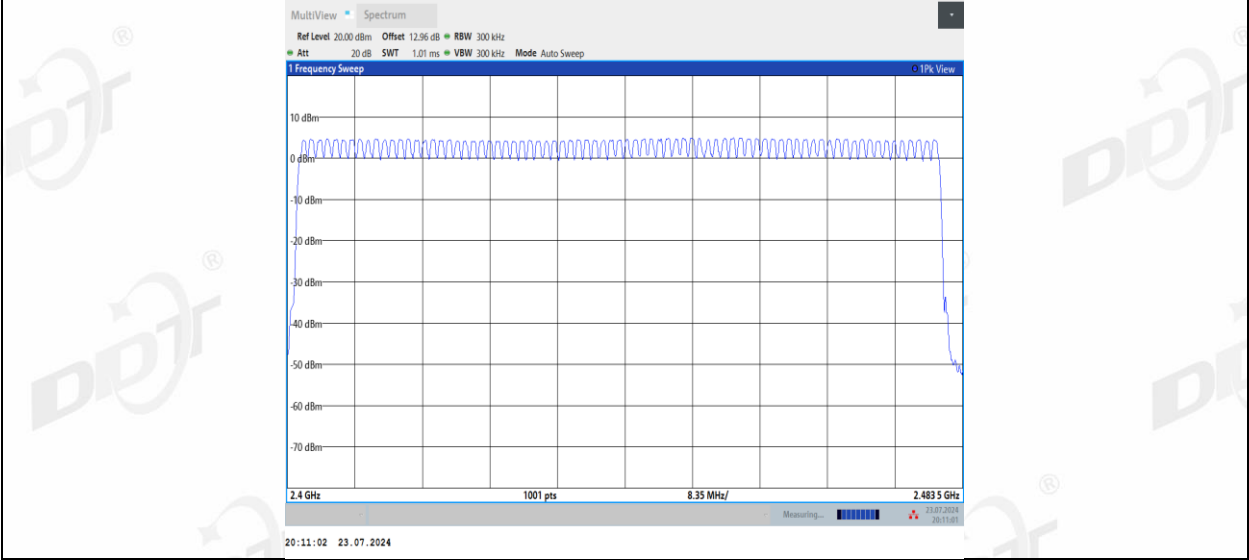


8.5.Test graphs

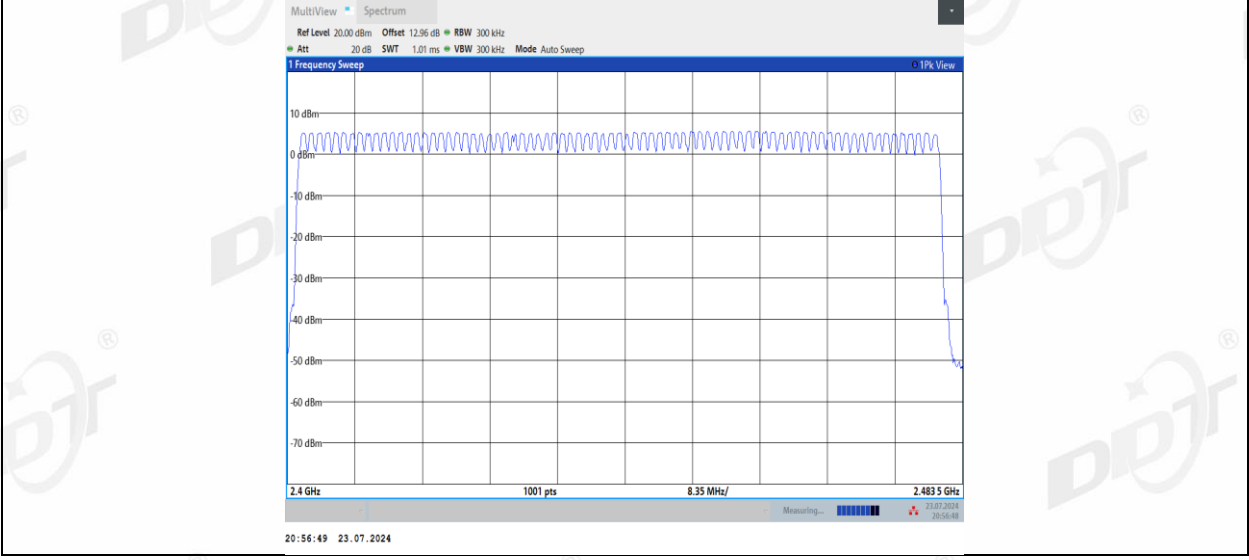




3DH5_Ant1_Hop

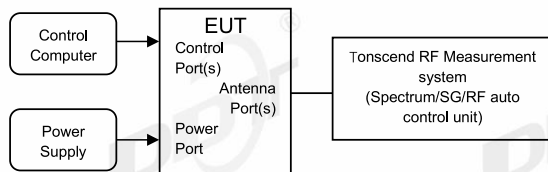


3DH5_Ant2_Hop



9. Band Edge Compliance (Conducted Method)

9.1. Block diagram of test setup



9.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

9.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

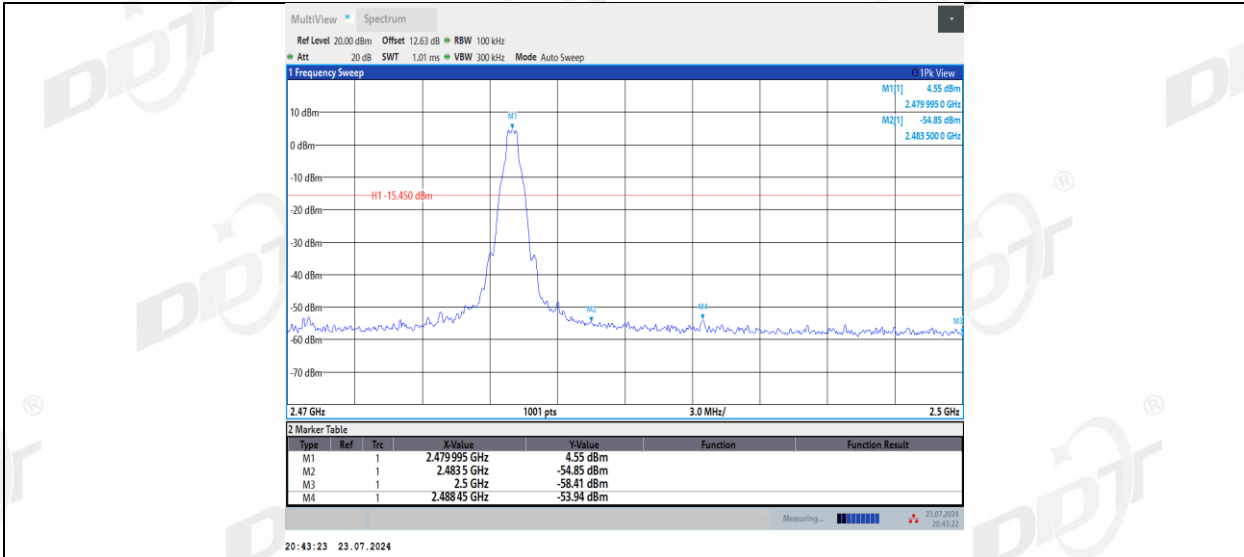
9.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.2℃,44.8%RH	Test Date:	2024.07.23~2024.07.24
Test Power Supply:	Battery	Sample Number:	S24050708-005

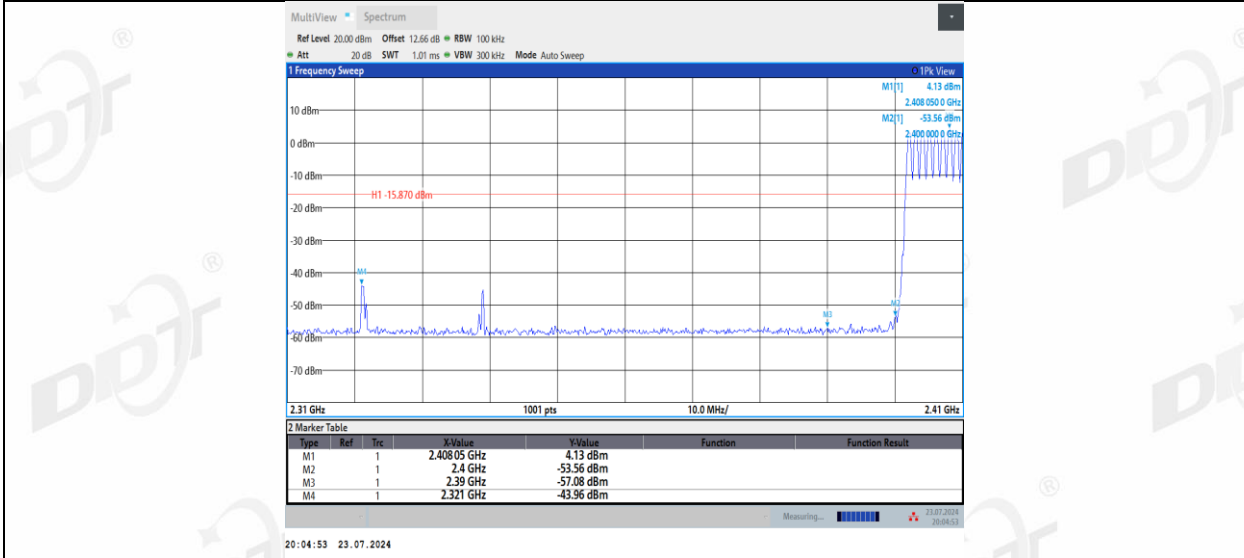
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass

9.5.Test graphs

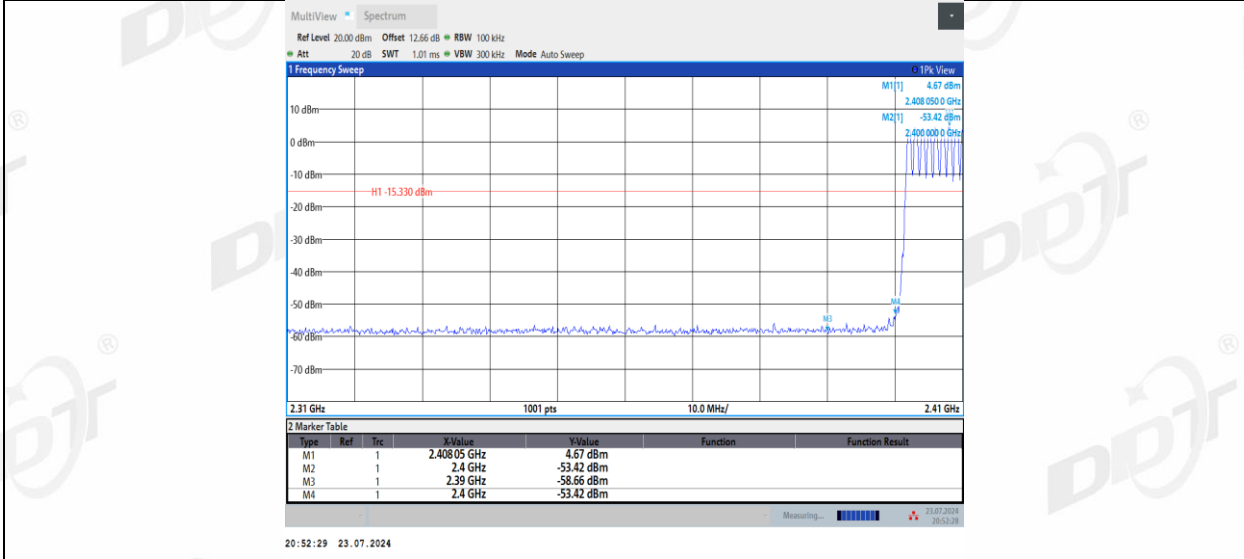




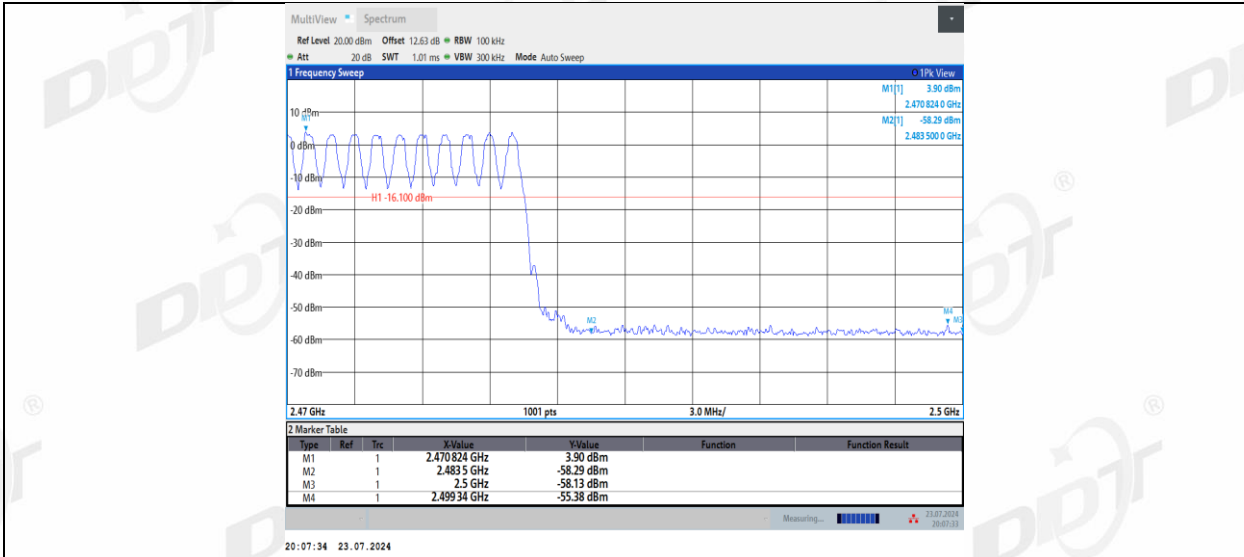
DH5_Ant1_Low_Hop_2402



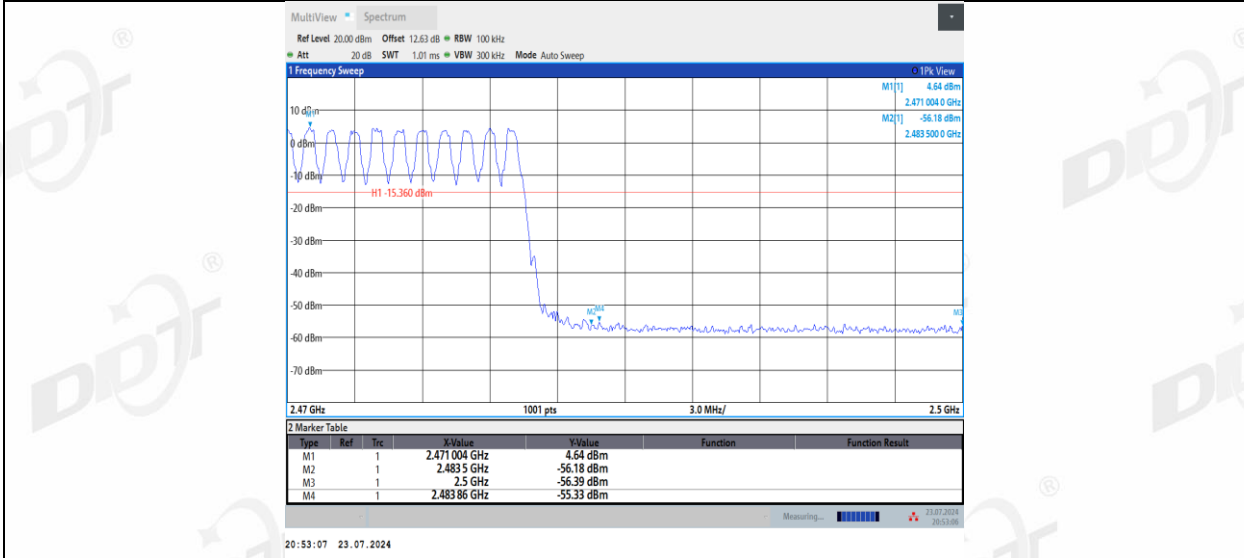
DH5_Ant2_Low_Hop_2402



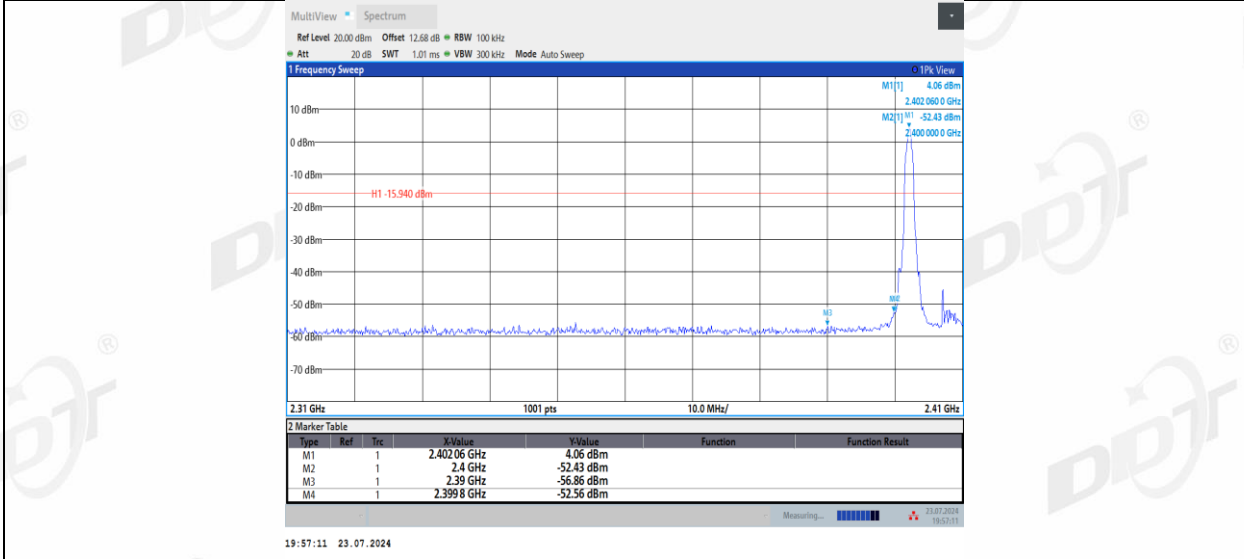
DH5_Ant1_High_Hop_2480



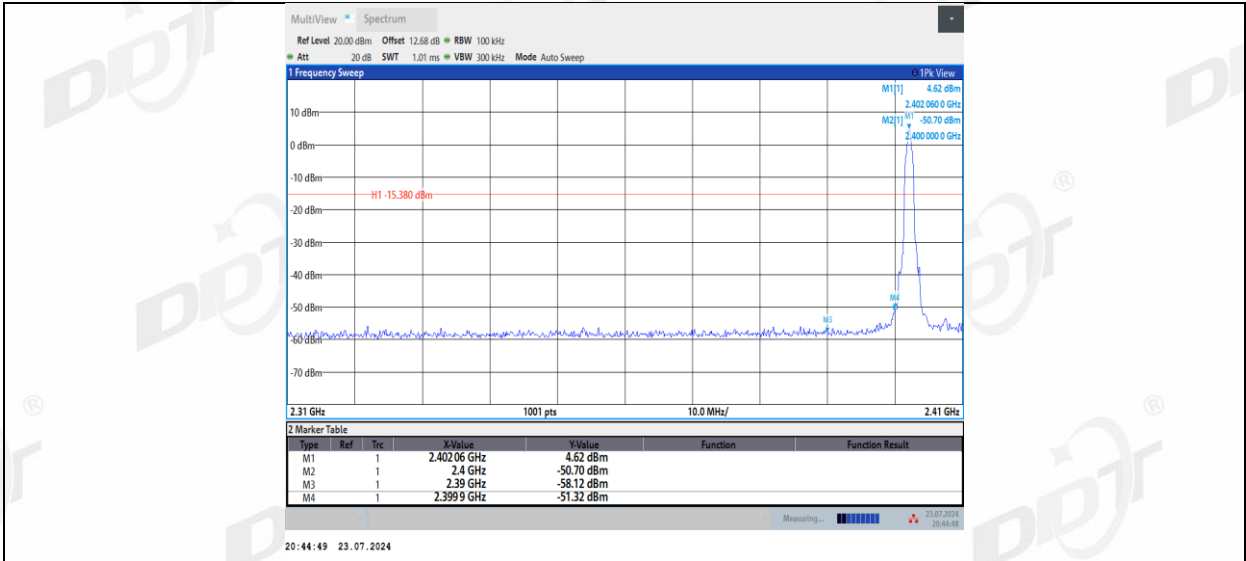
DH5_Ant2_High_Hop_2480



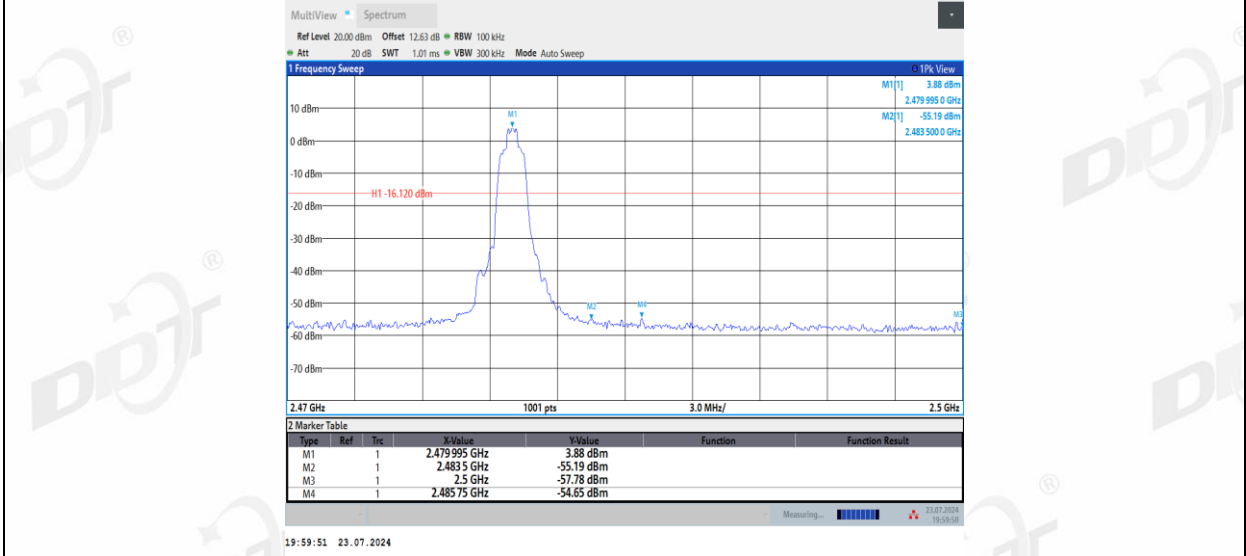
2DH5_Ant1_Low_2402



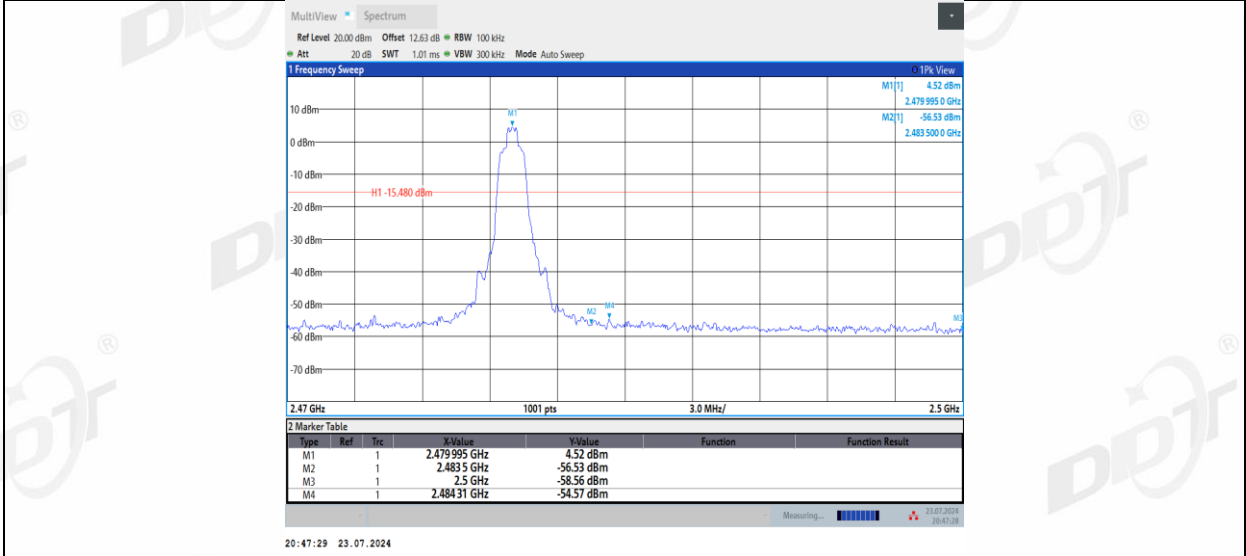
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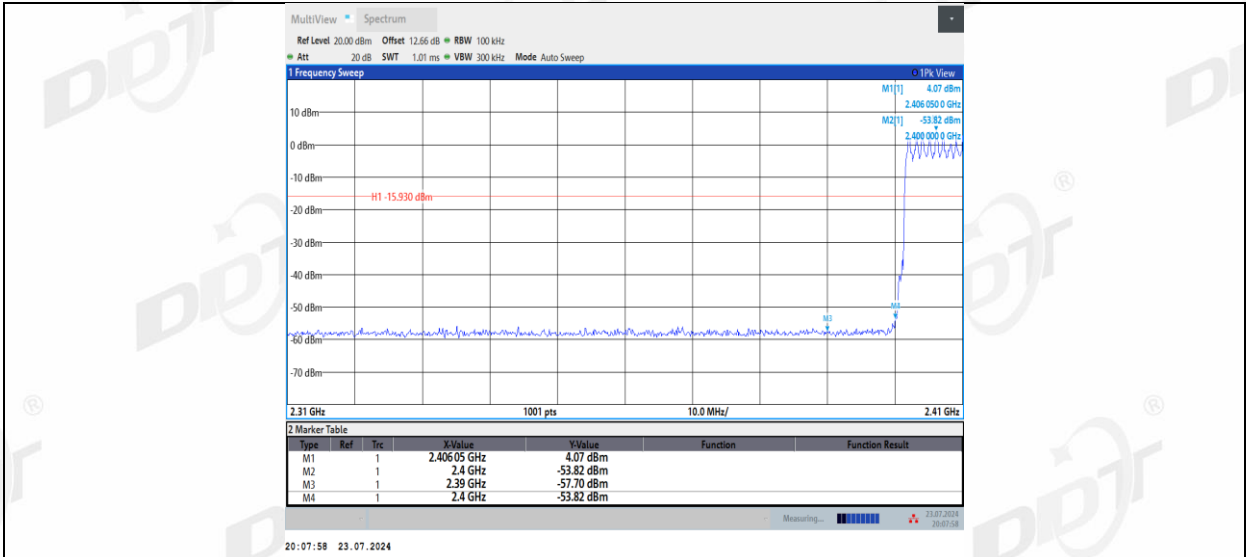
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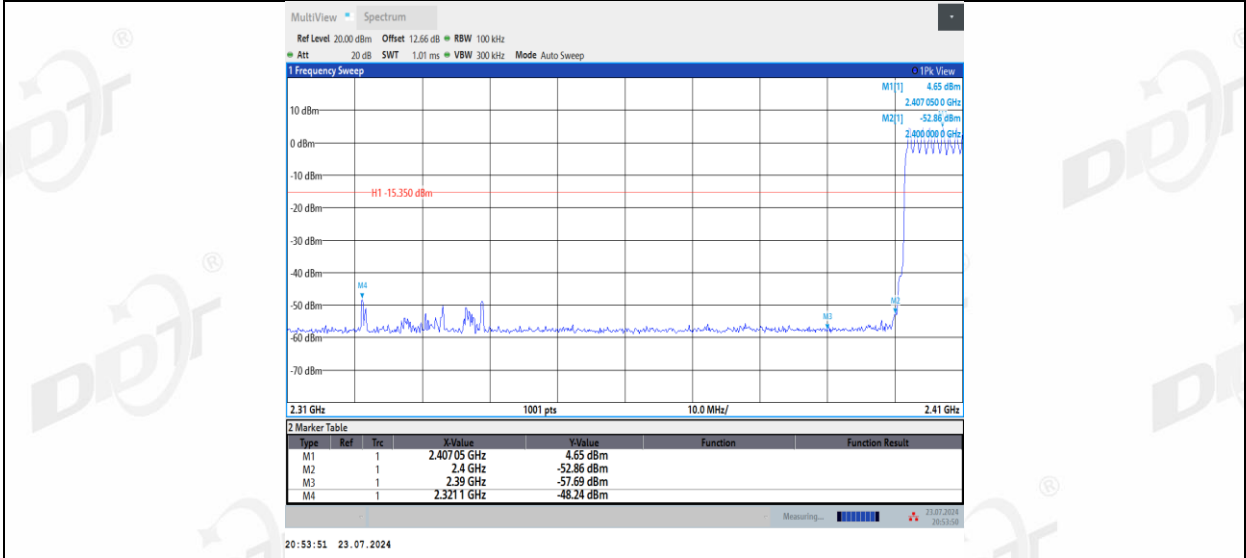
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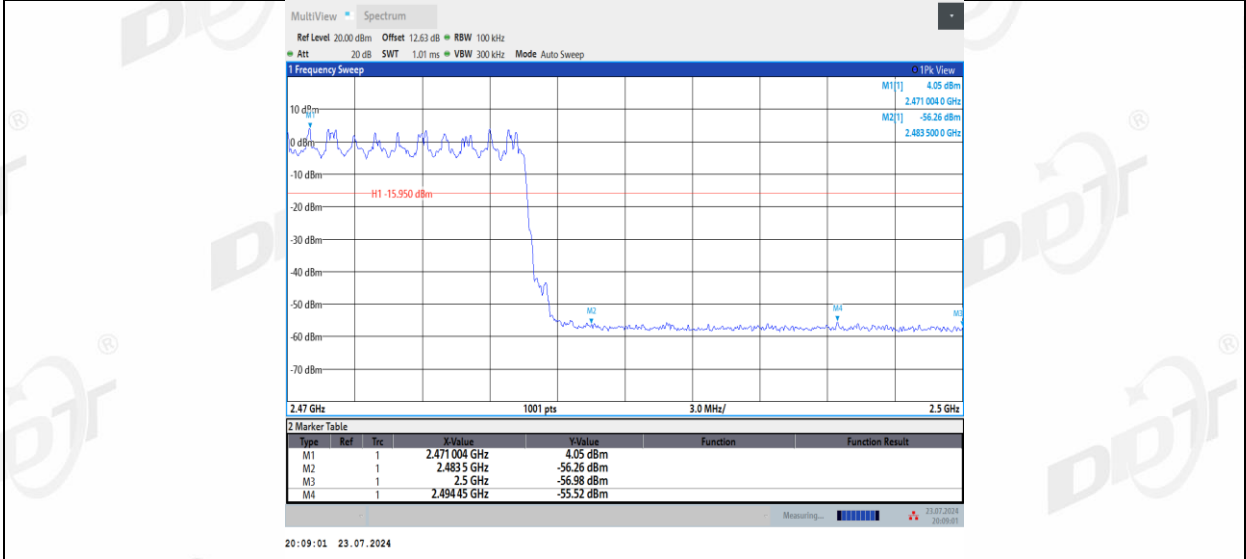
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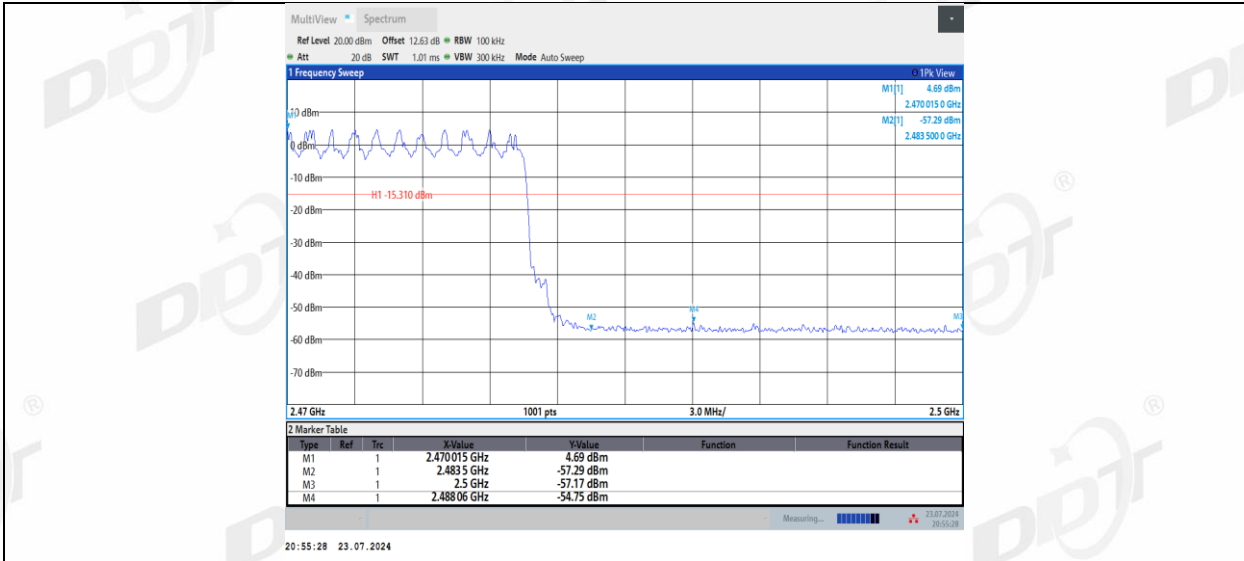
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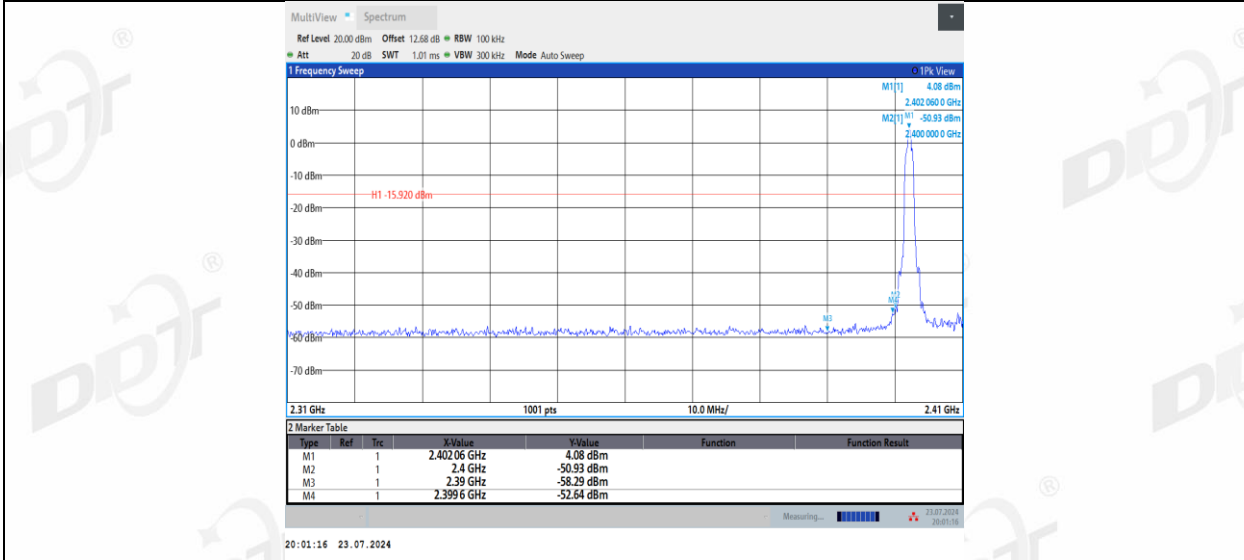
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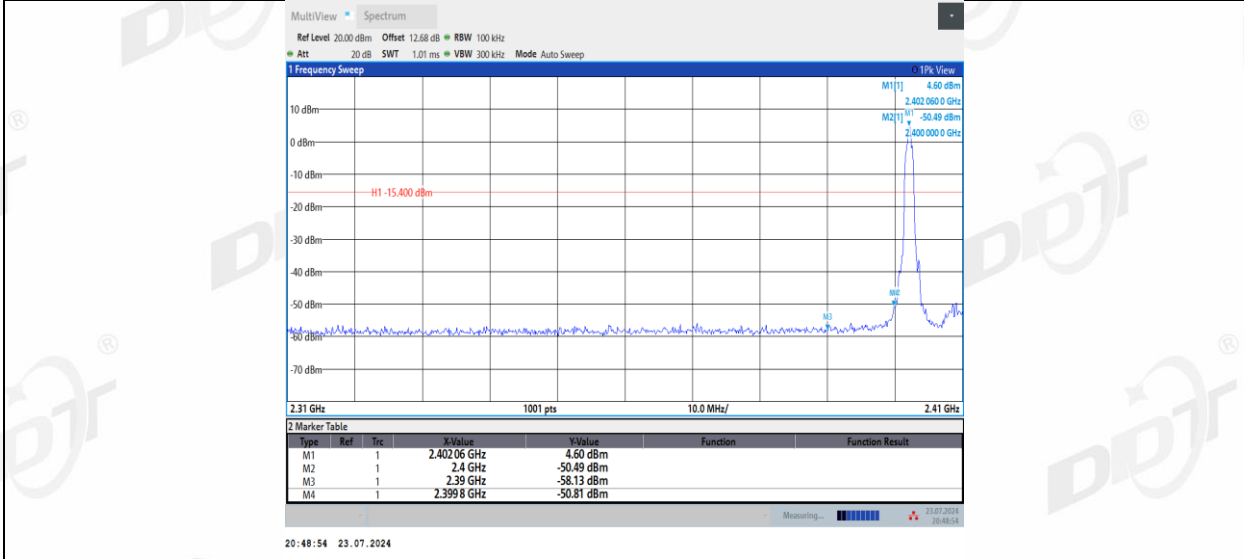
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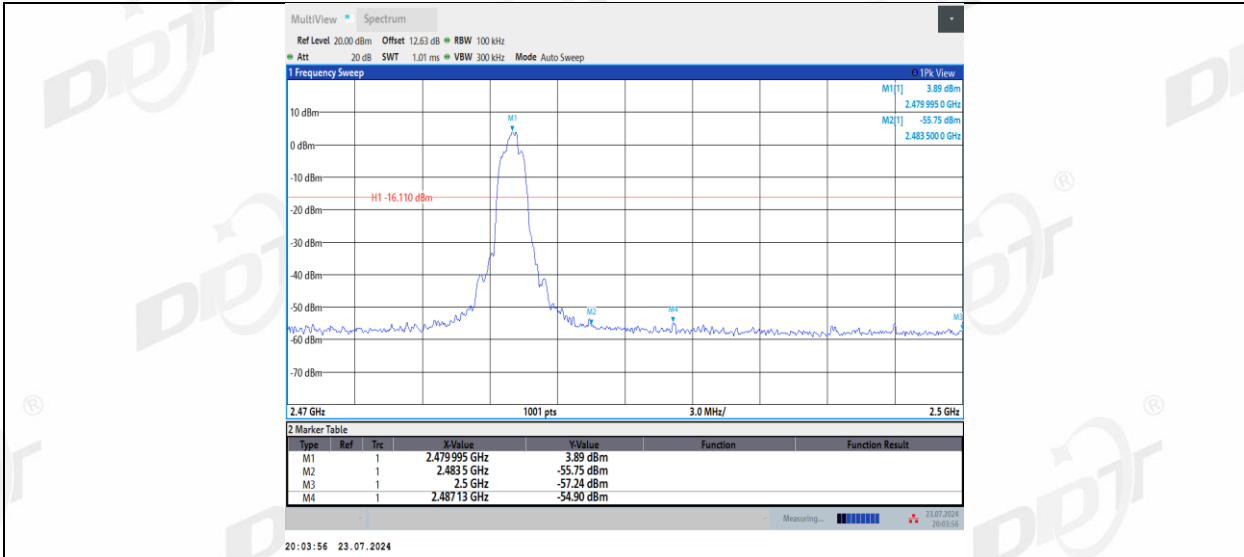
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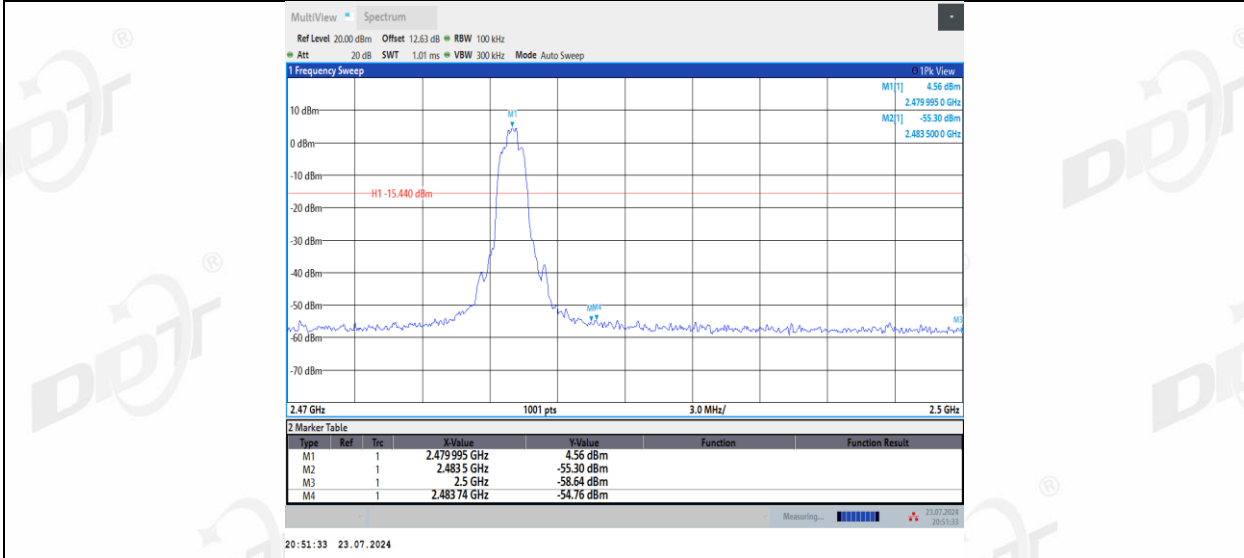
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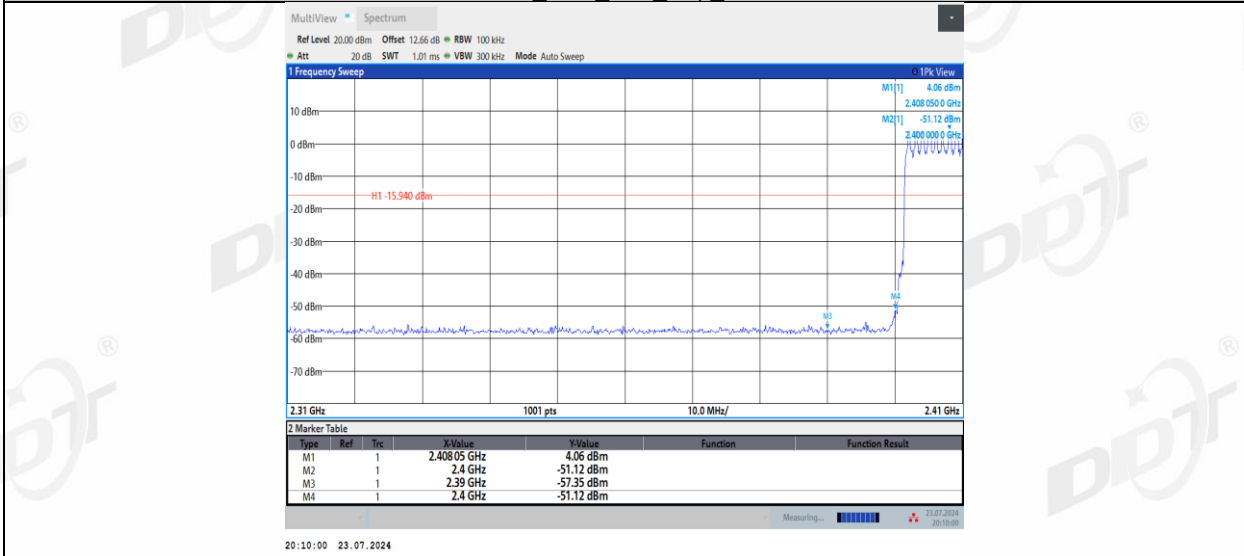
3DH5_Ant1_High_2480



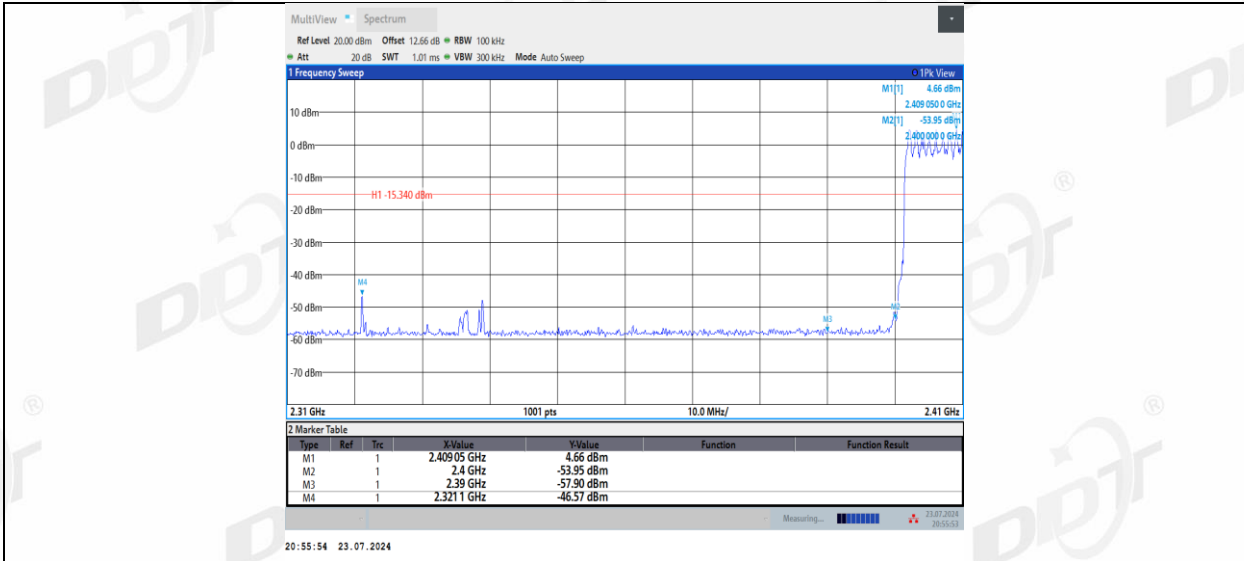
3DH5_Ant2_High_2480



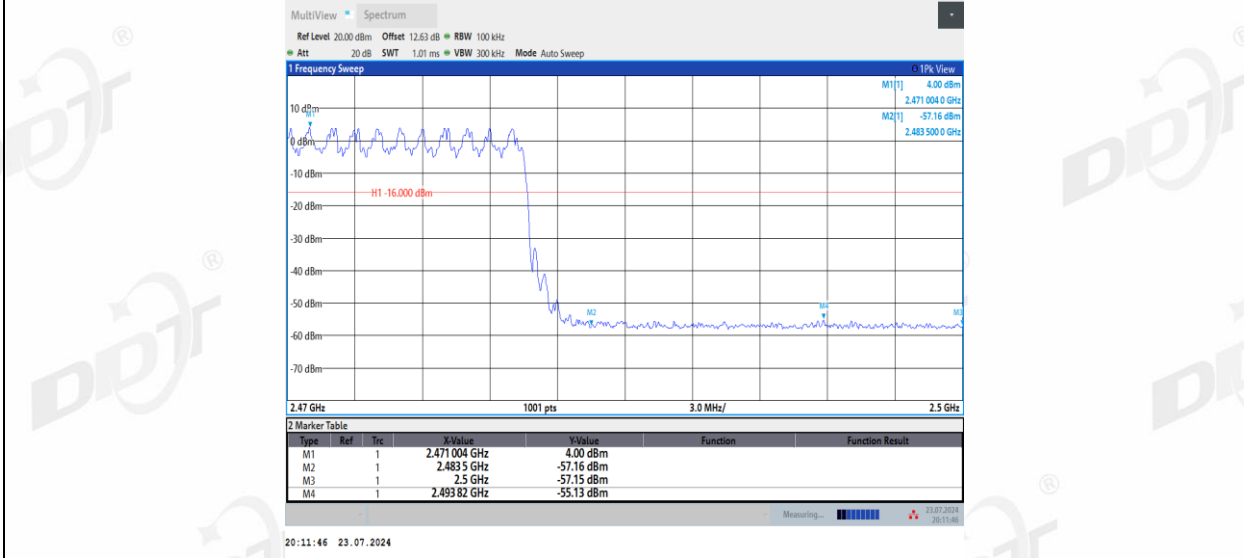
3DH5_Ant1_Low_Hop_2402



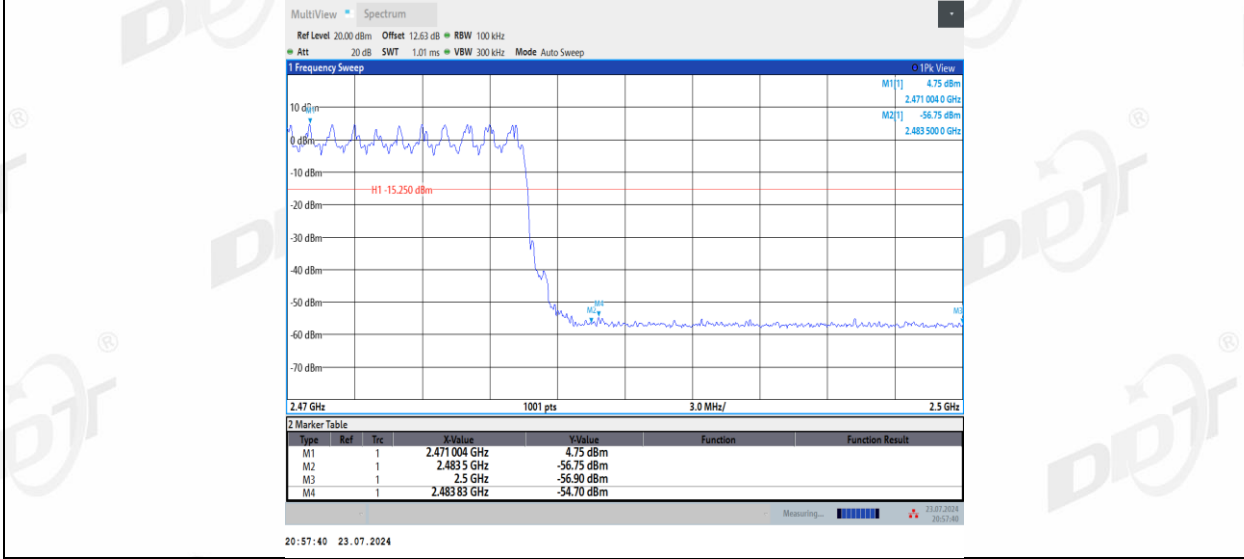
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3DH5_Ant1_High_Hop_2480

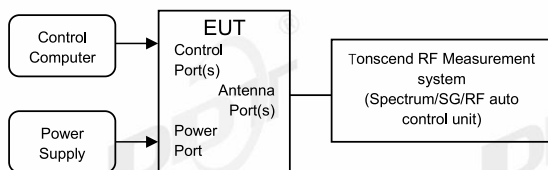


3DH5_Ant2_High_Hop_2480



10. RF Conducted Spurious Emissions

10.1. Block diagram of test setup



10.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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.

10.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{Span/RBW}$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

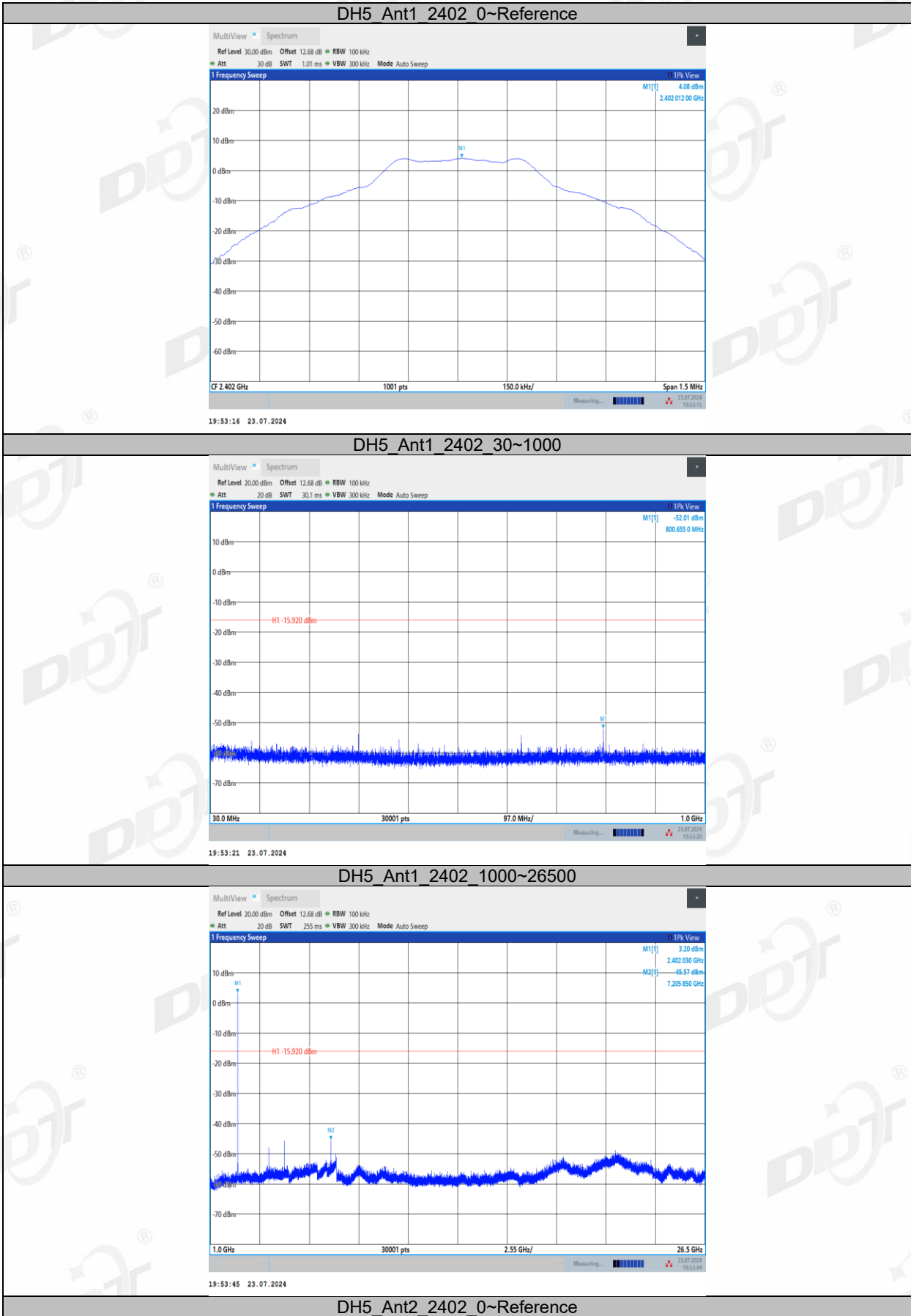
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

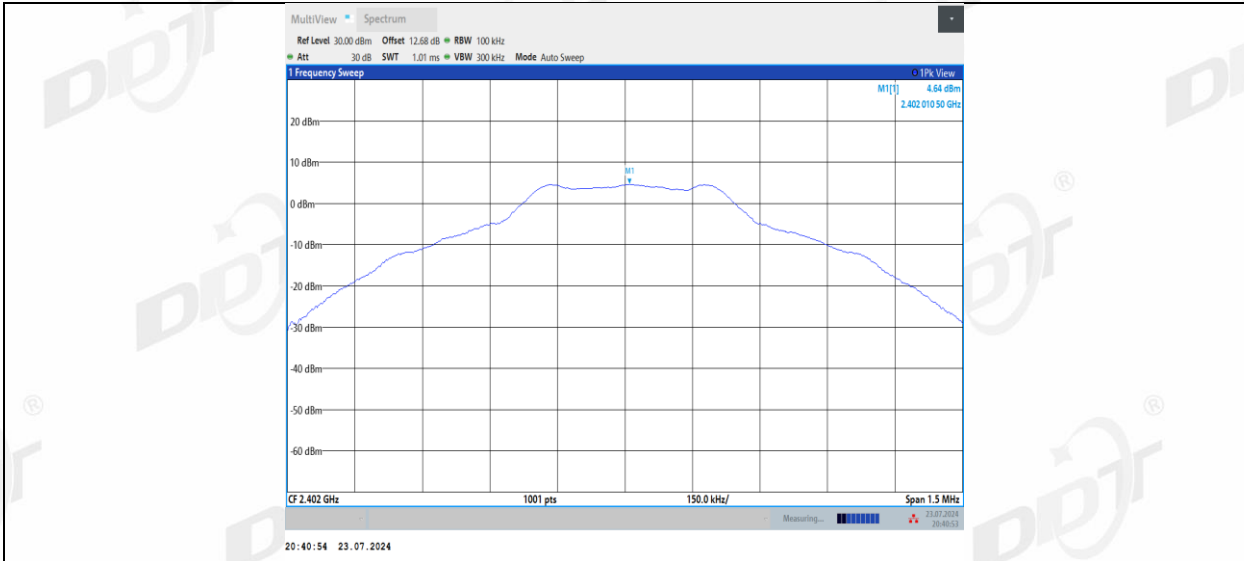
10.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.2℃,44.8%RH	Test Date:	2024.07.23~2024.07.24
Test Power Supply:	Battery	Sample Number:	S24050708-005

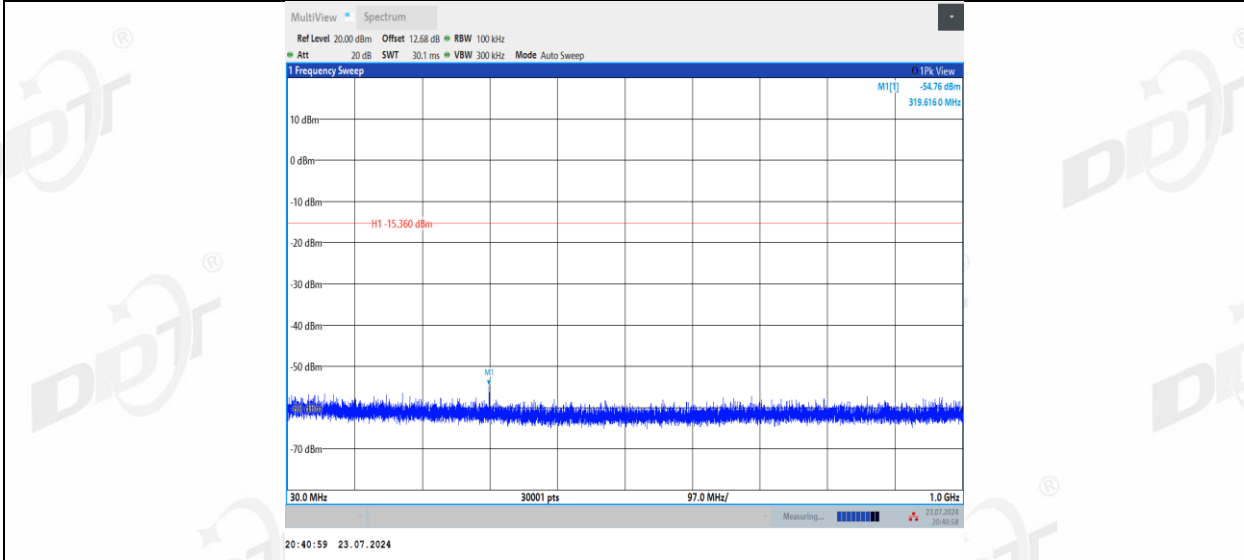
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

10.5. Test graphs

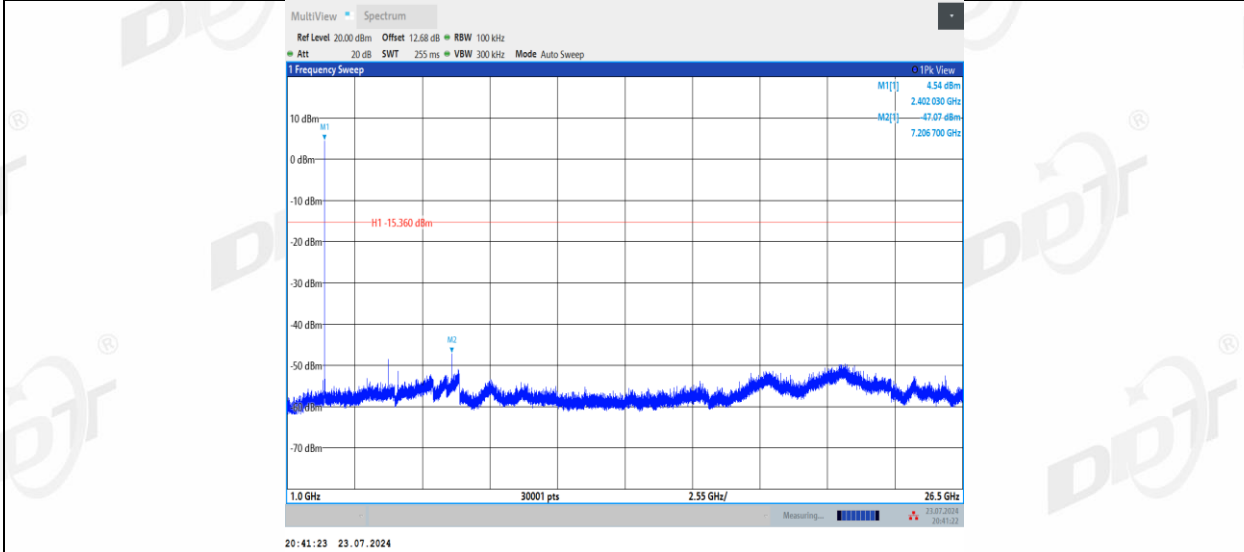




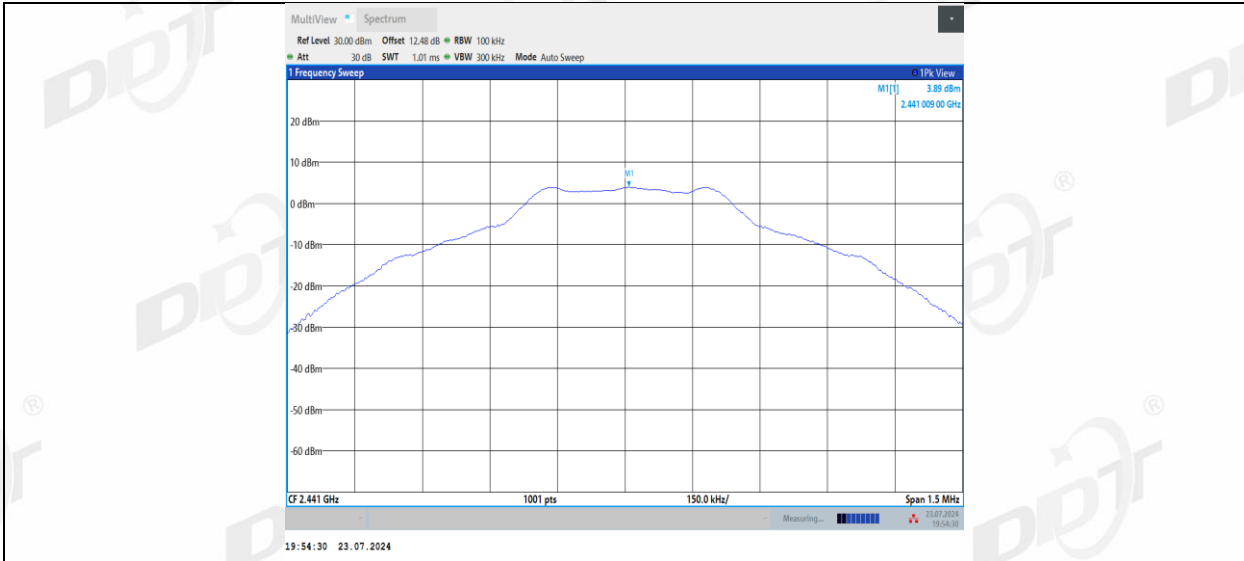
DH5_Ant2_2402_30~1000



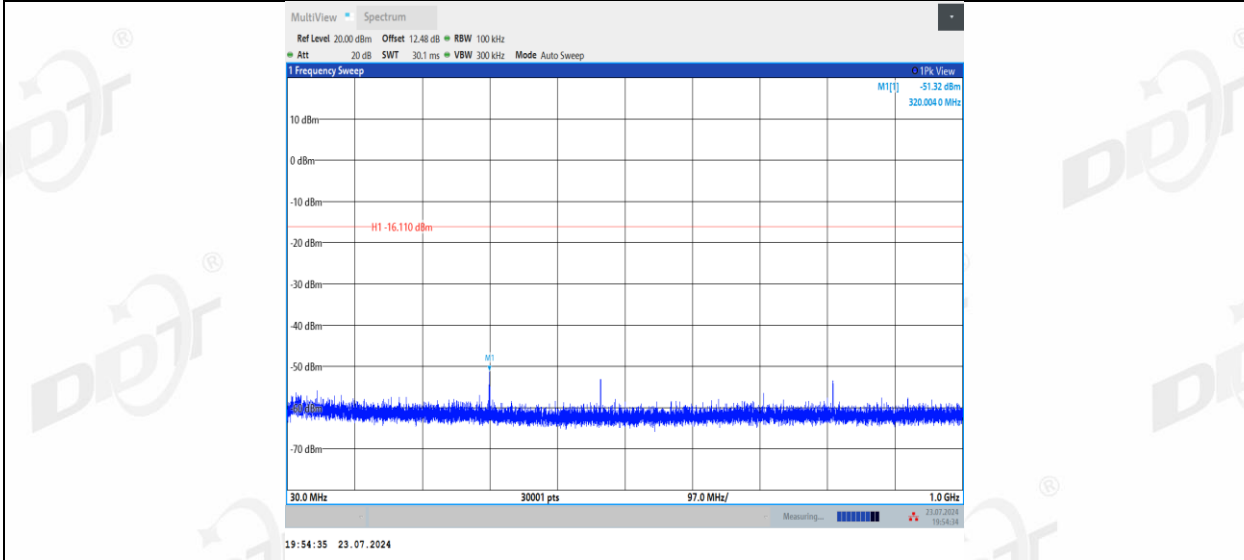
DH5_Ant2_2402_1000~26500



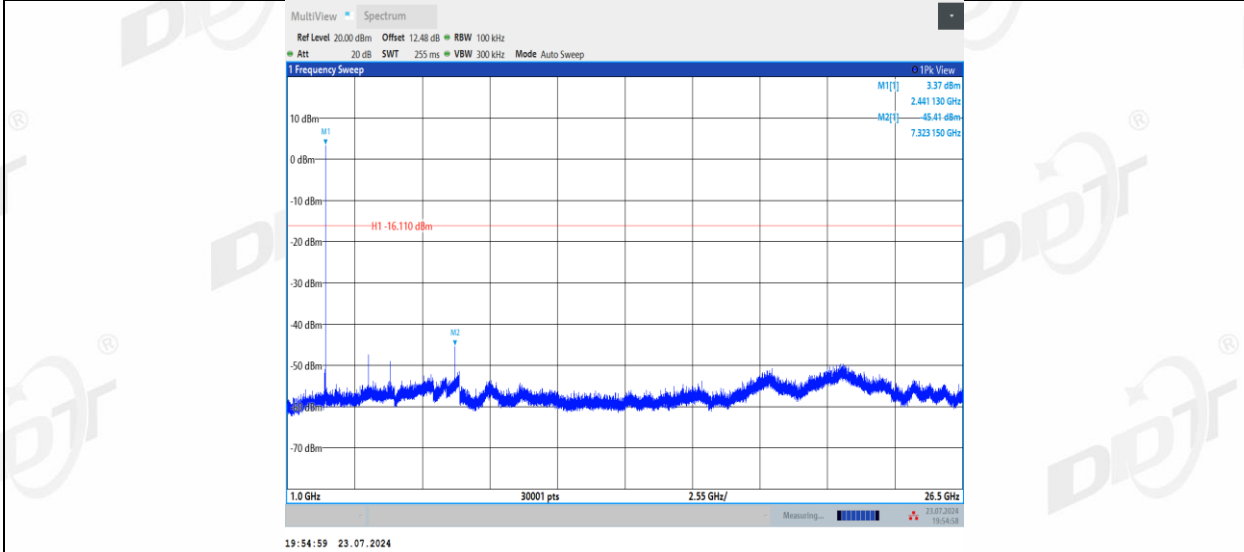
DH5_Ant1_2441_0~Reference



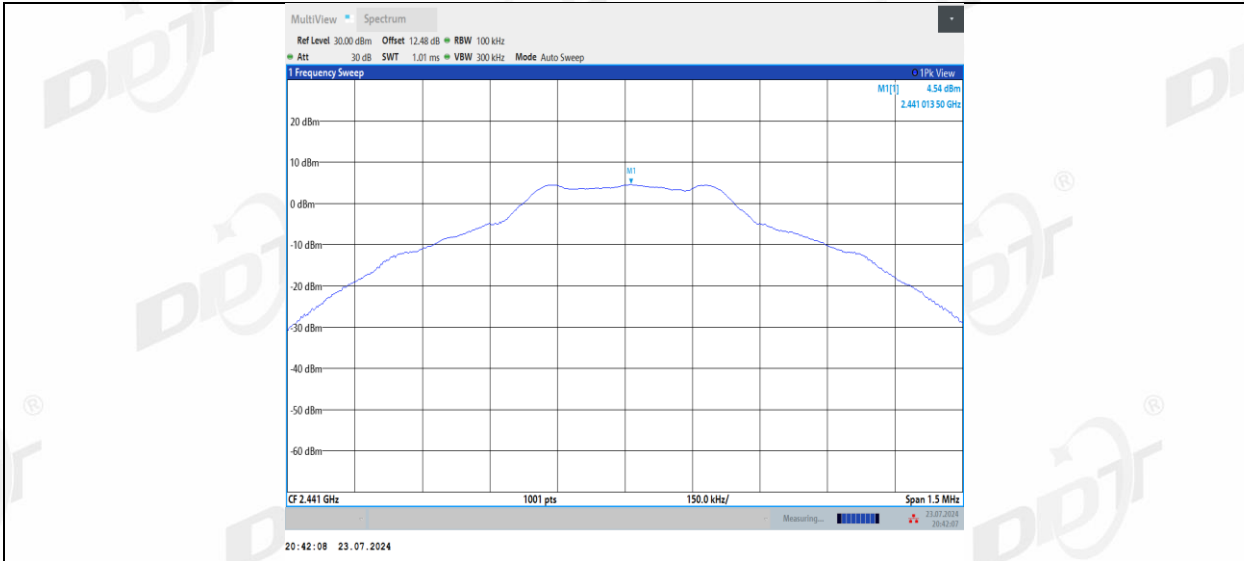
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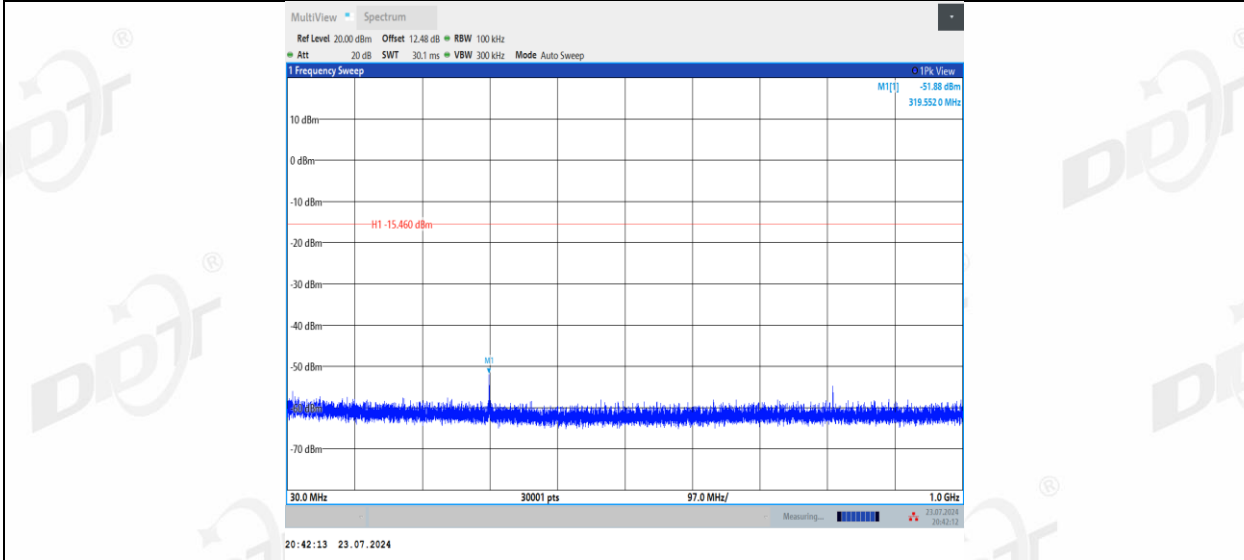
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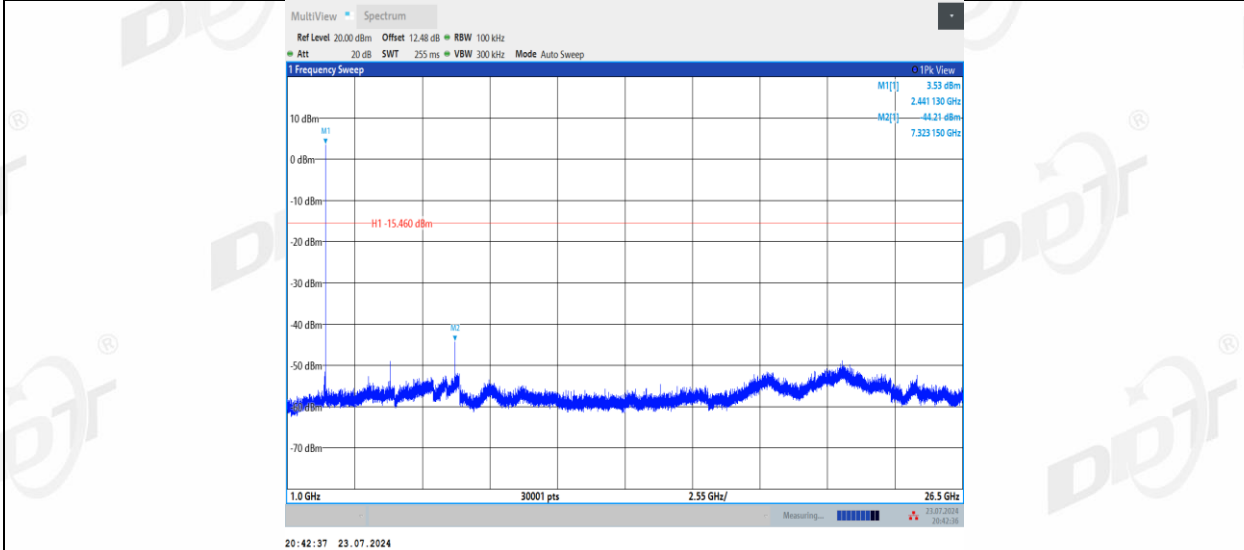
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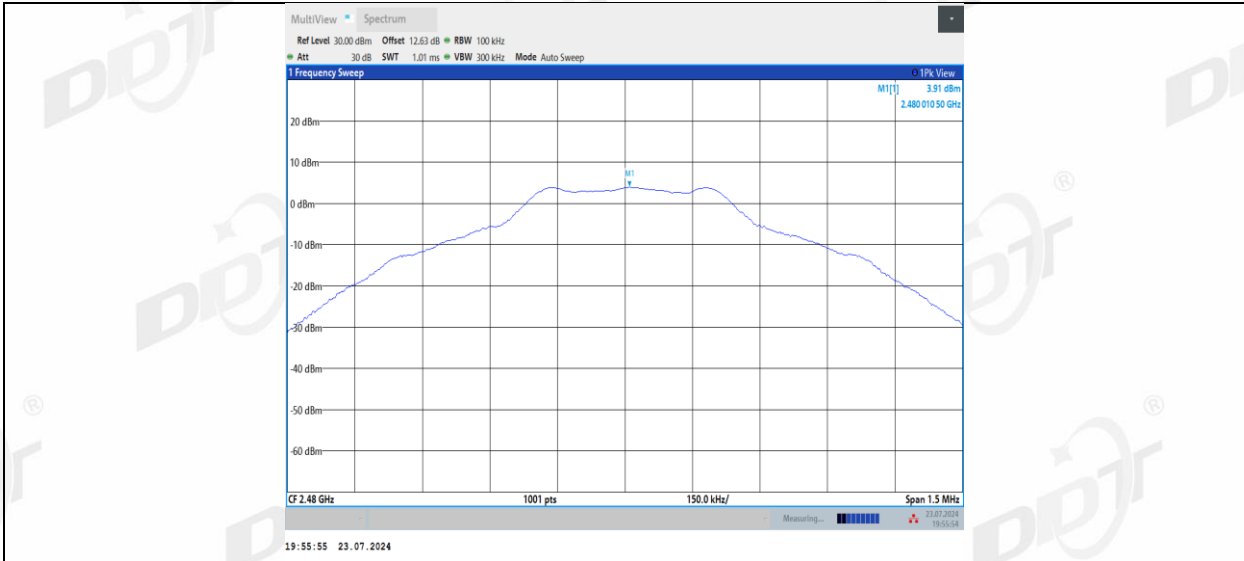
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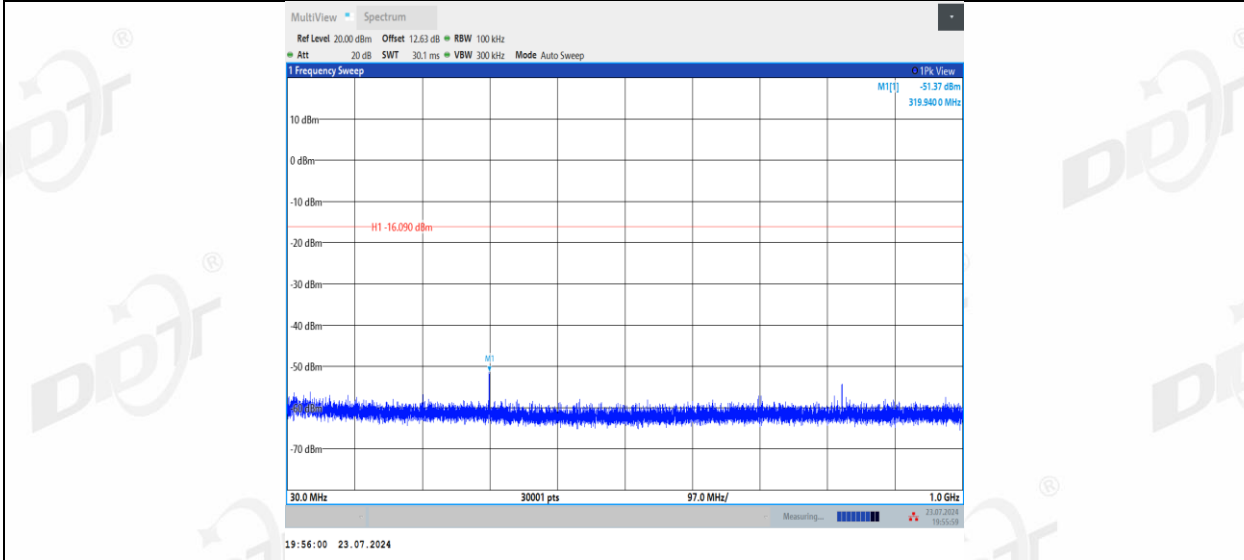
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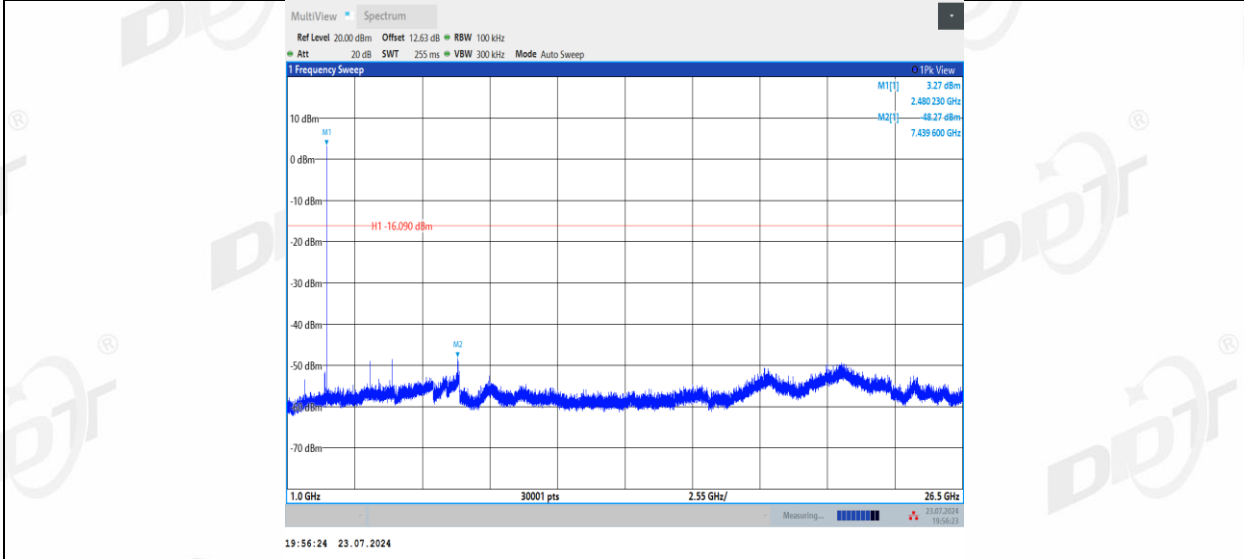
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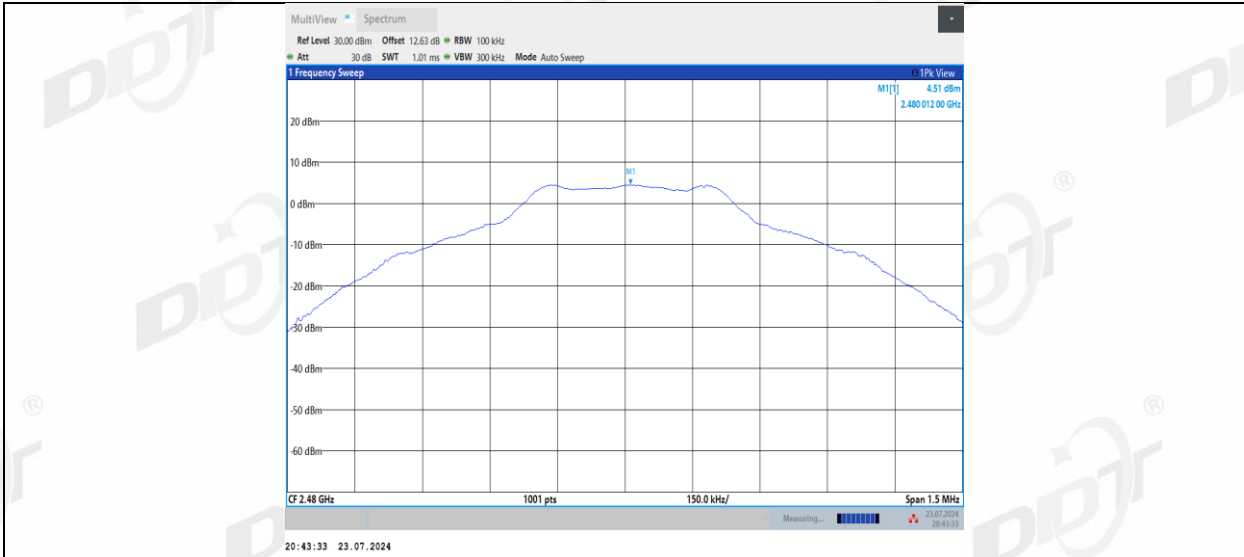
DH5_Ant1_2480_30~1000



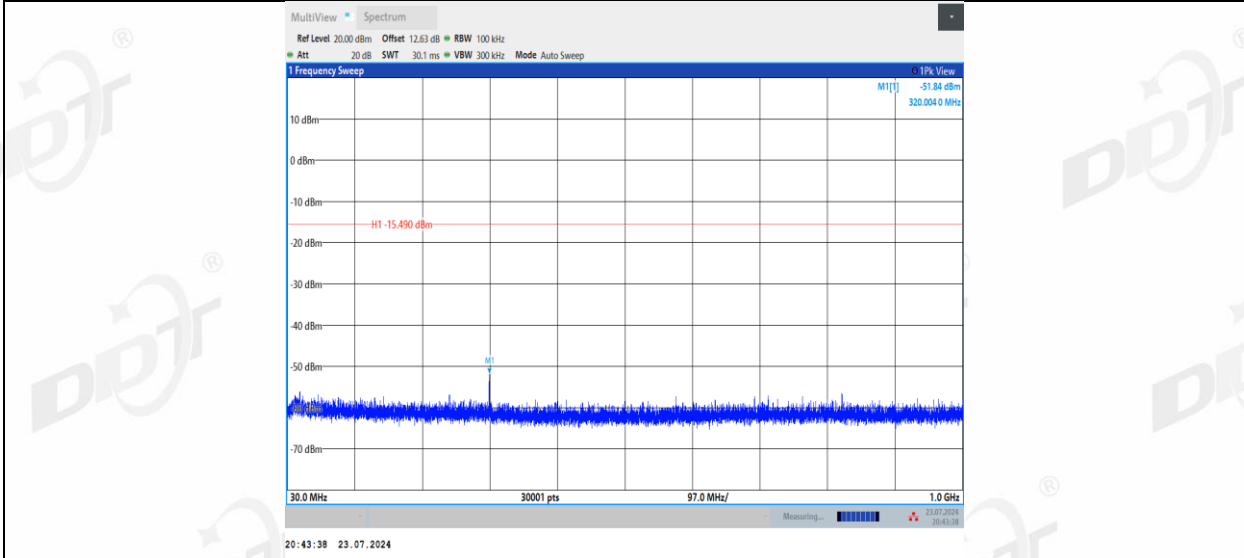
DH5_Ant1_2480_1000~26500



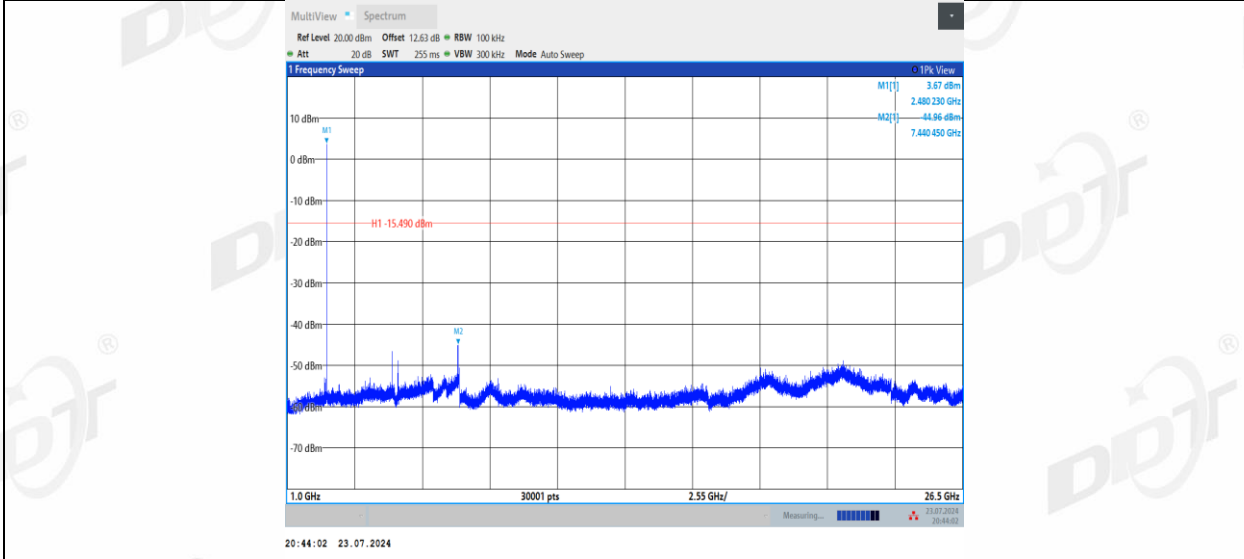
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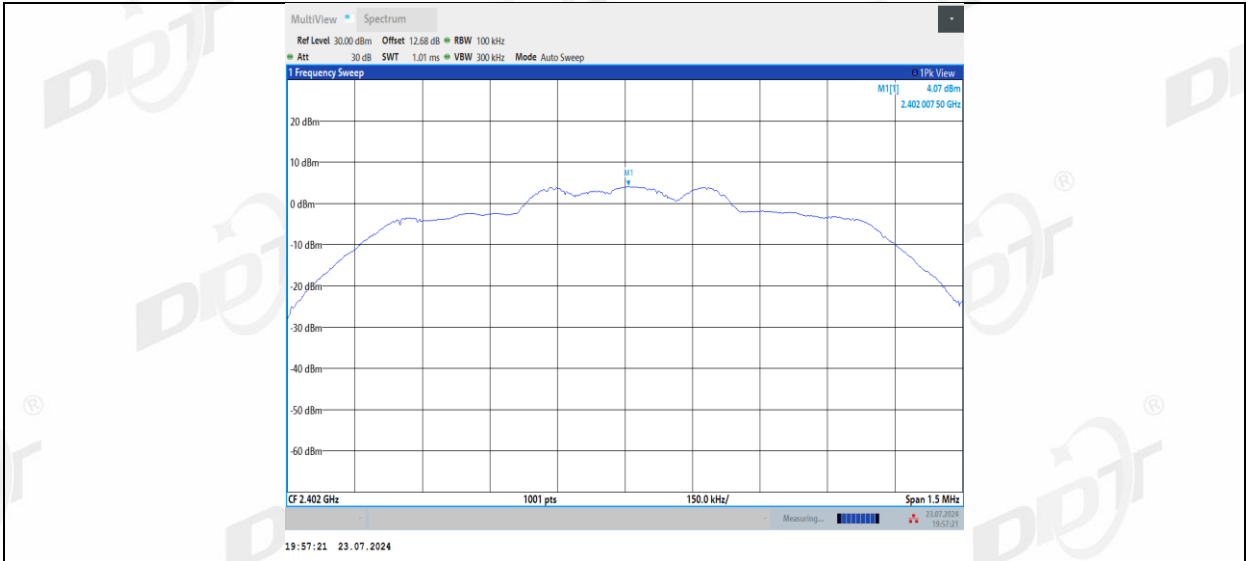
DH5_Ant2_2480_30~1000



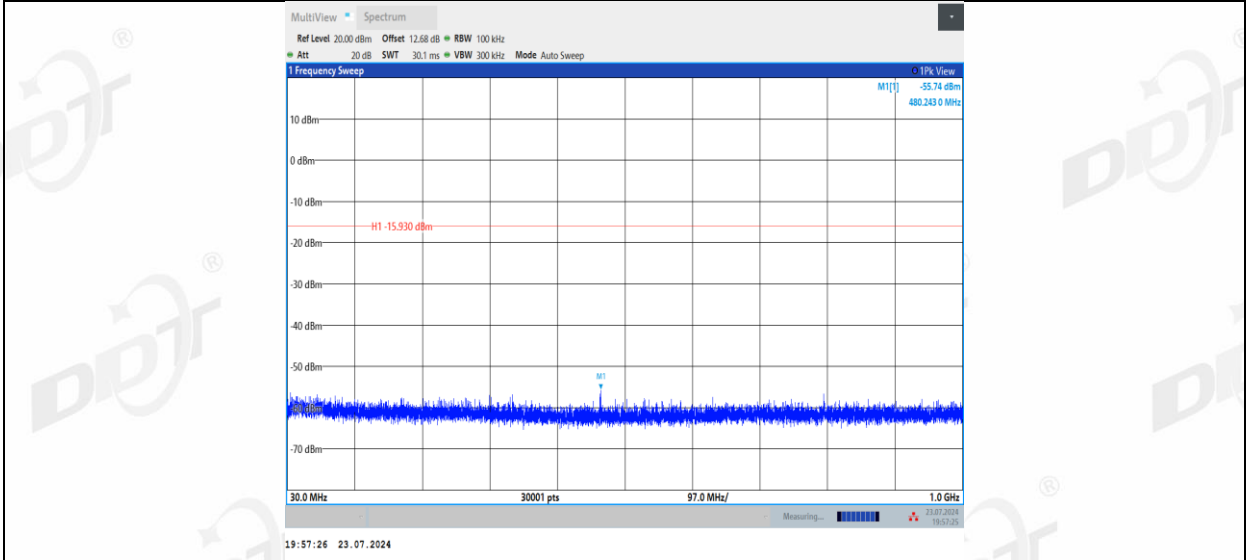
DH5_Ant2_2480_1000~26500



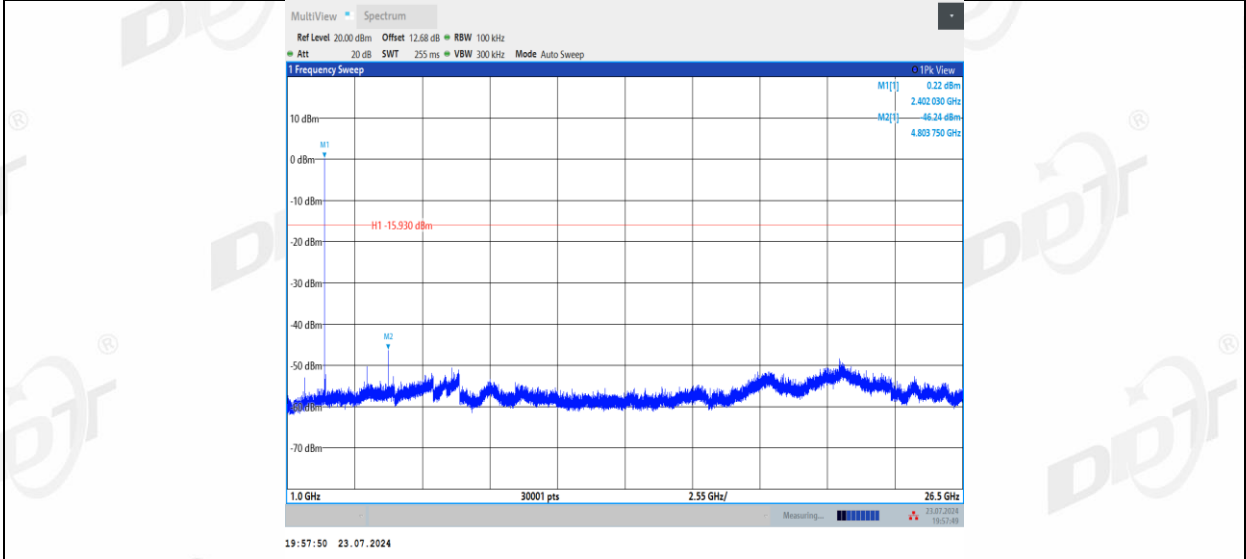
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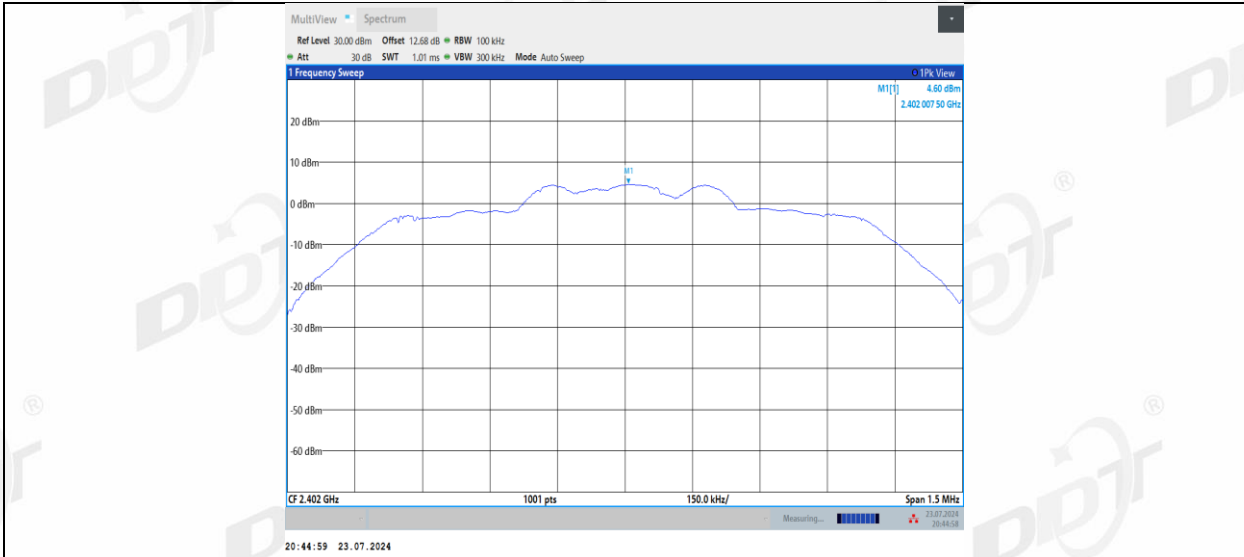
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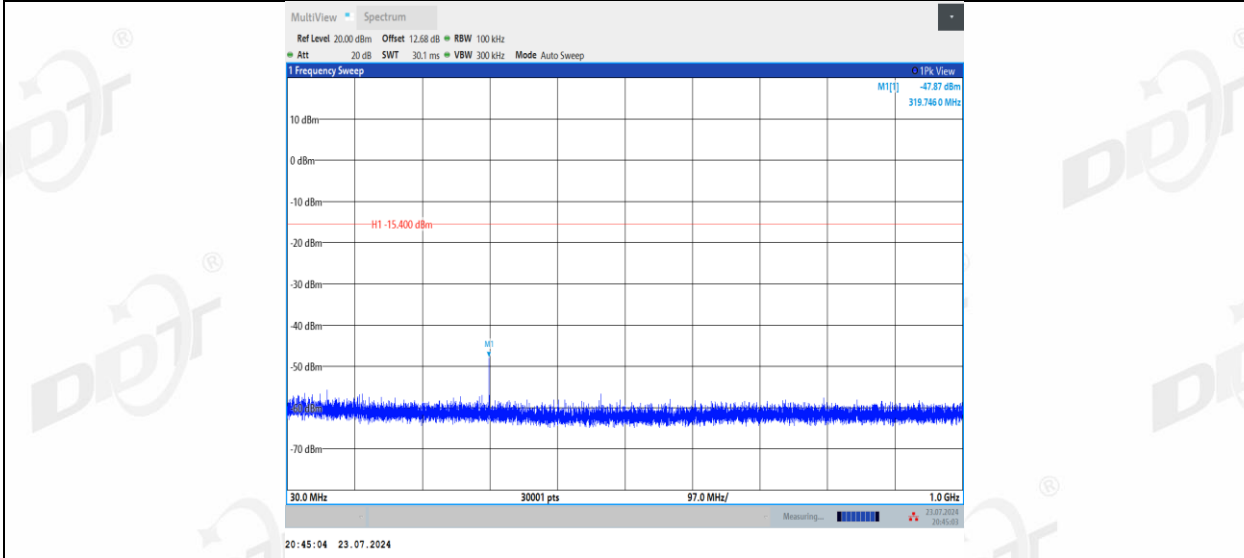
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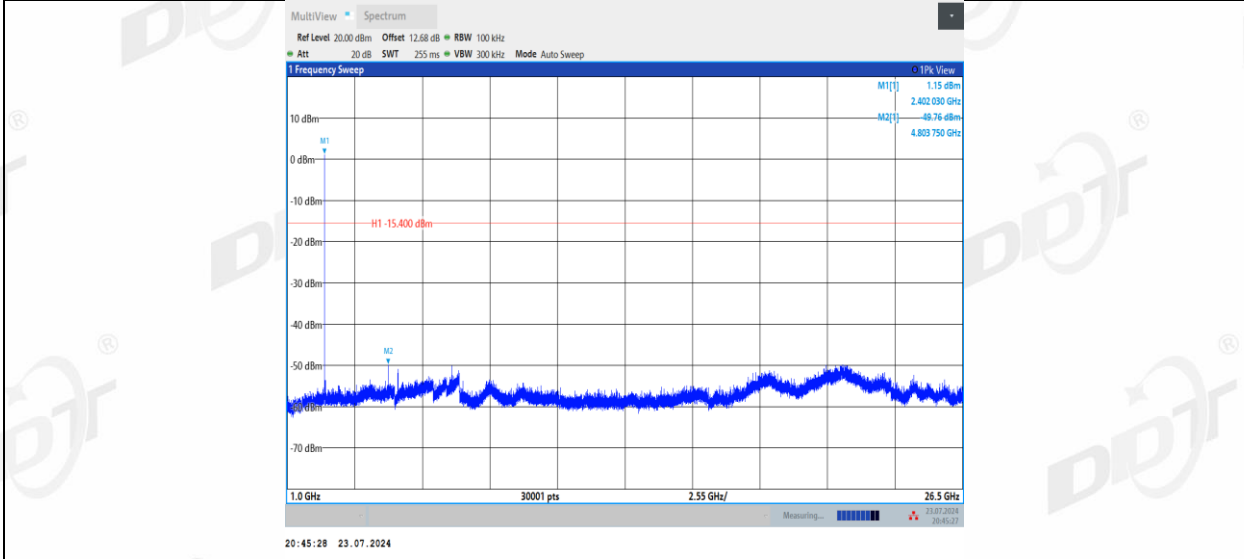
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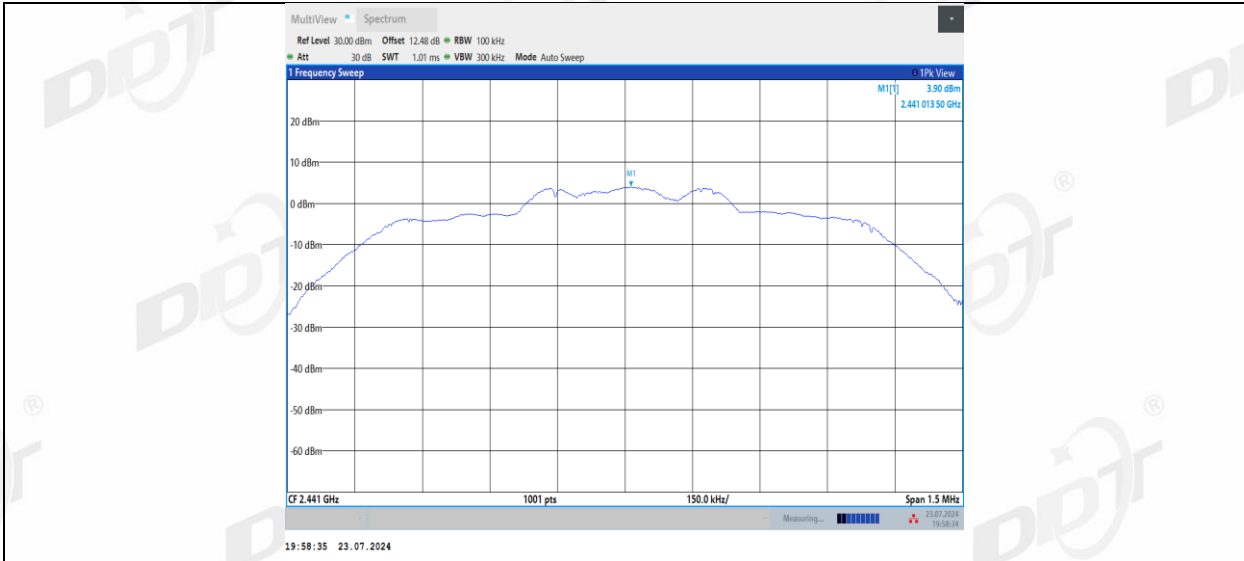
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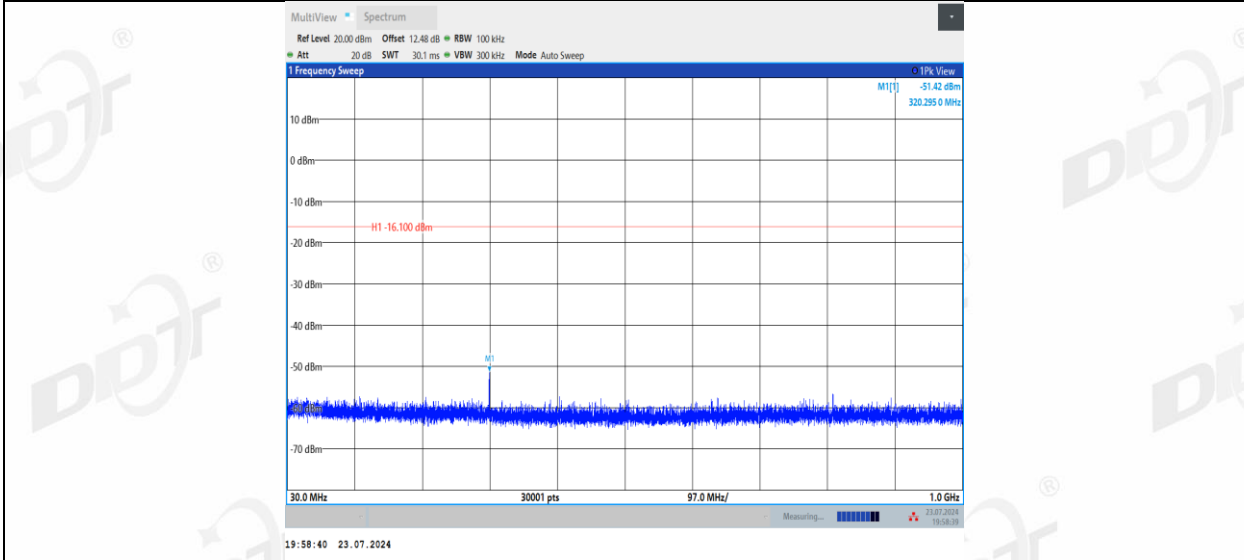
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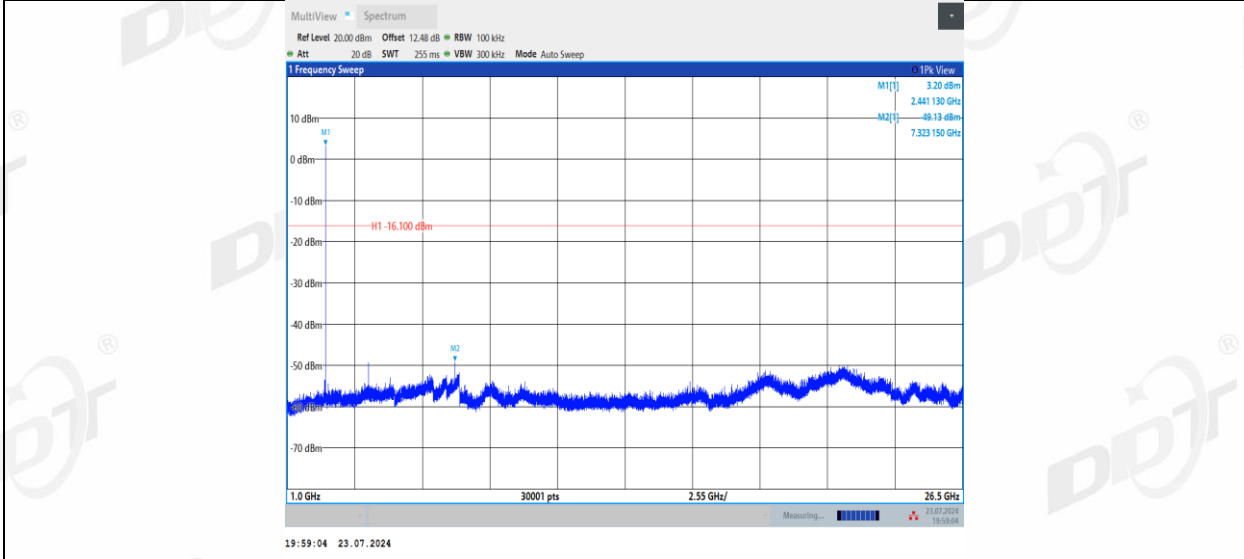
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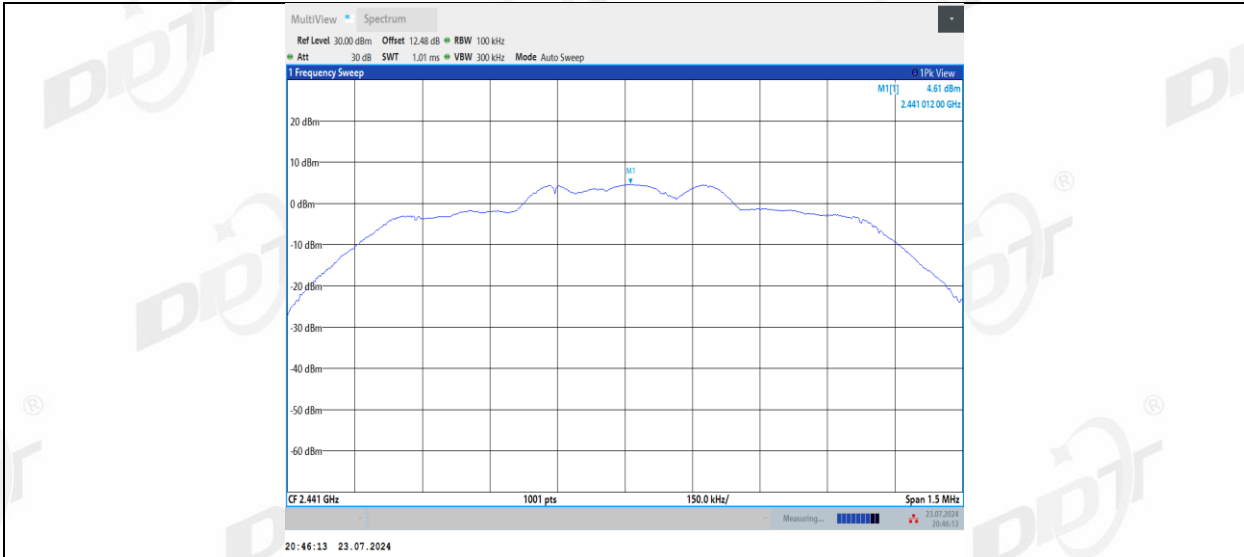
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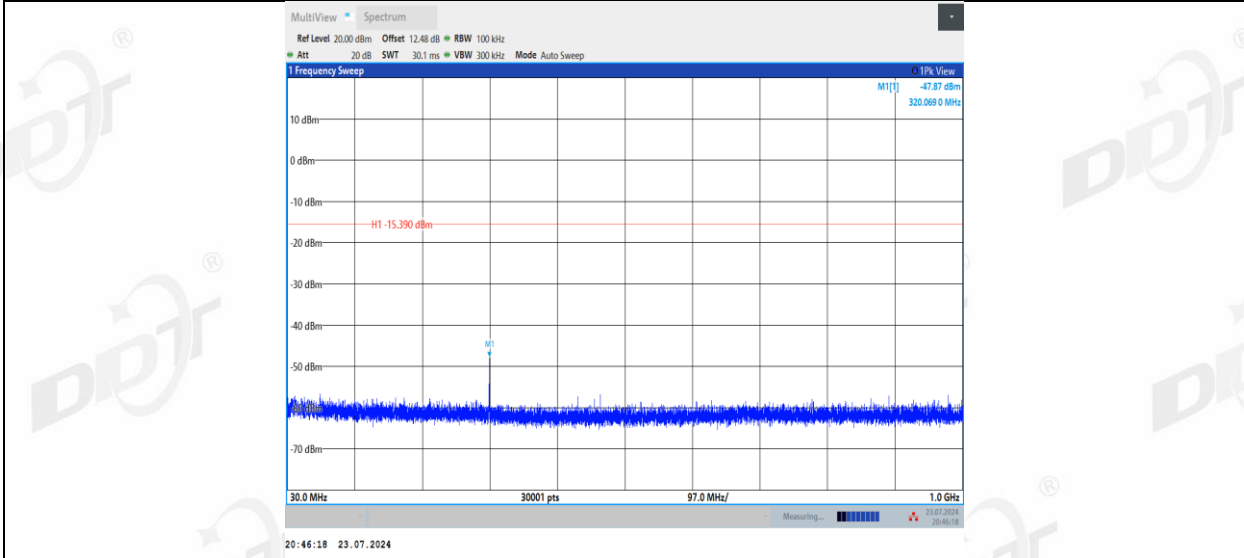
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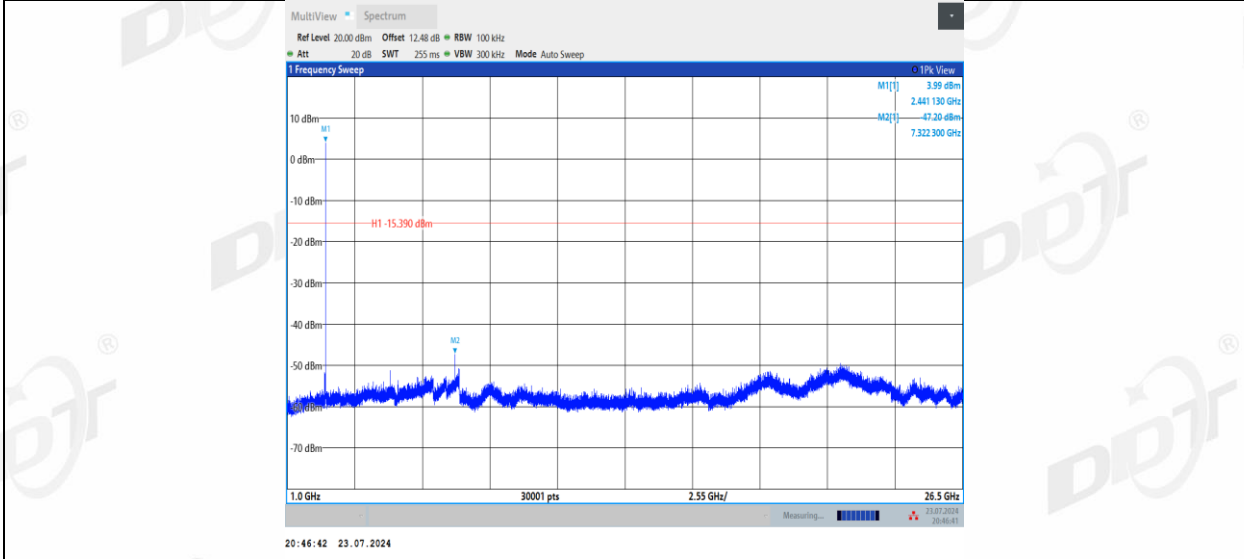
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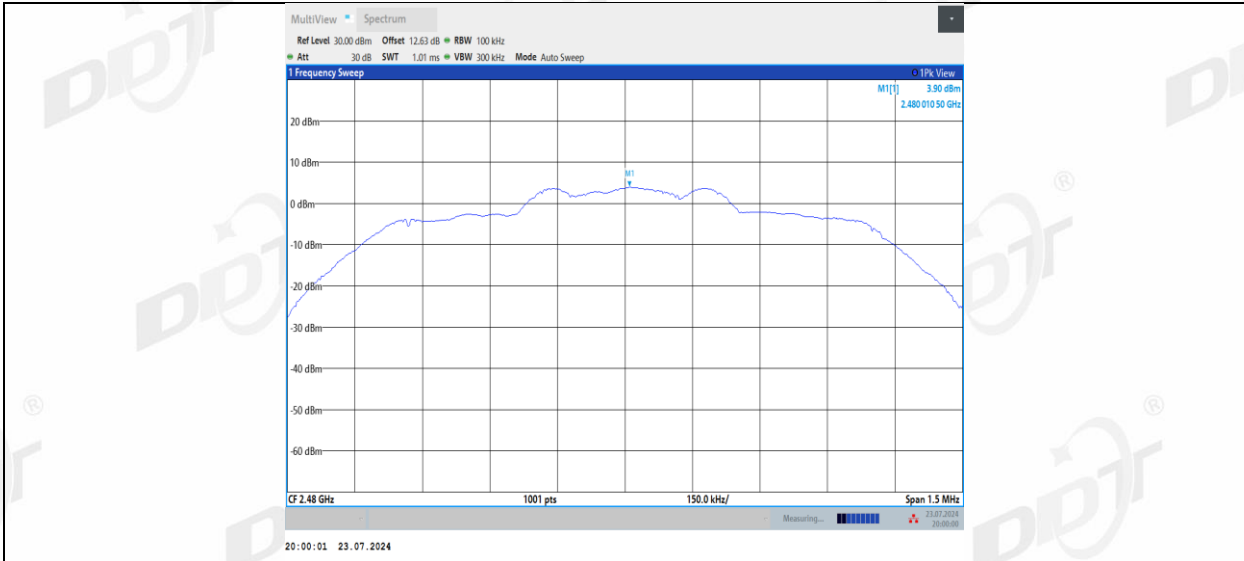
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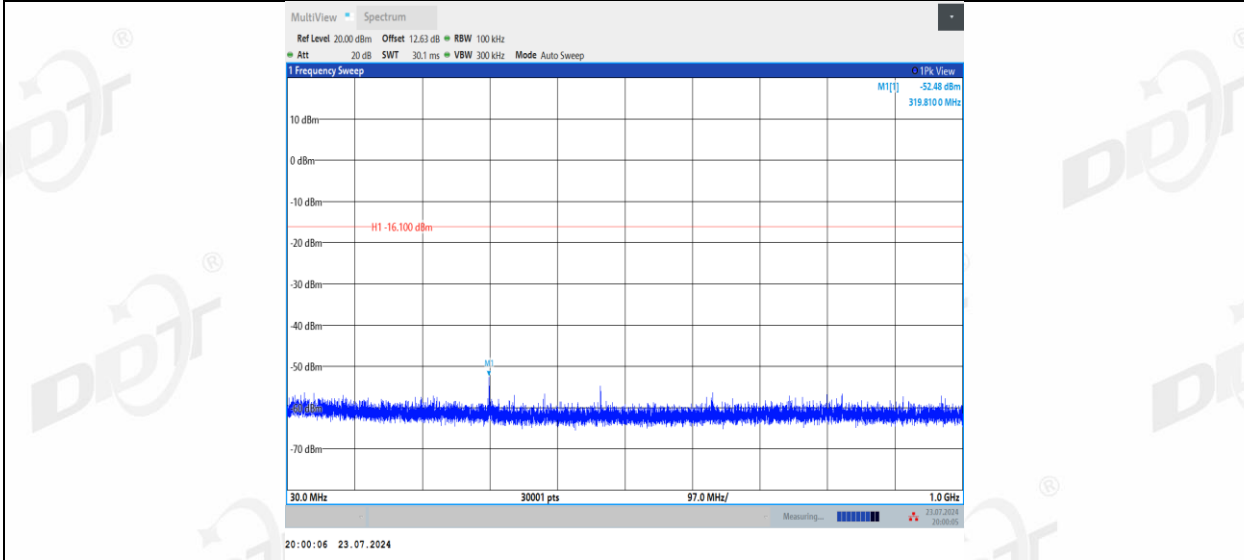
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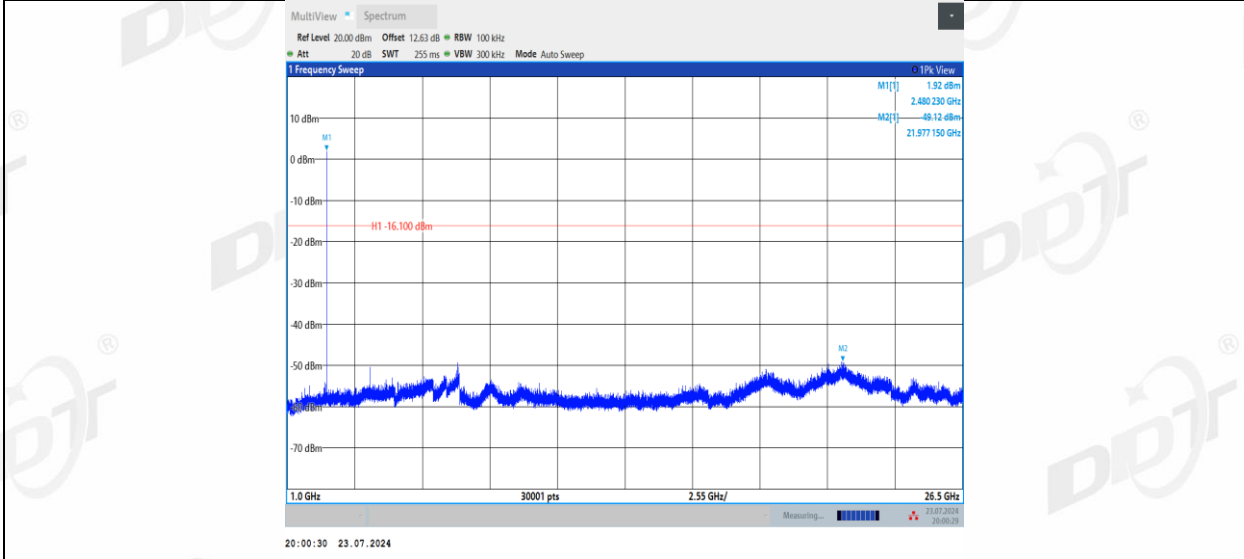
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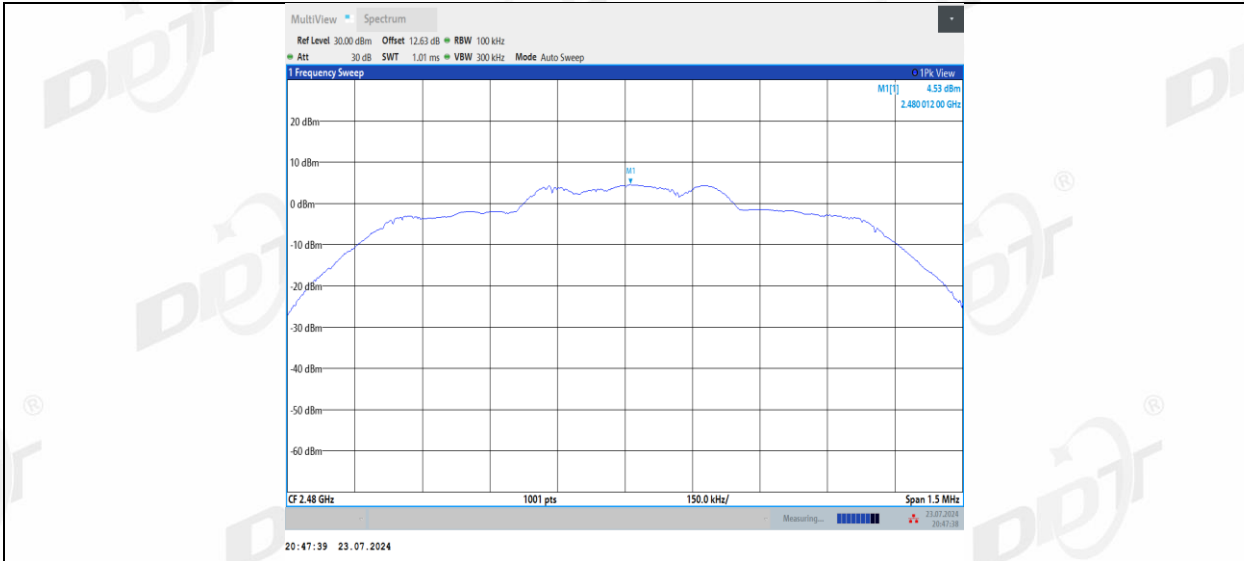
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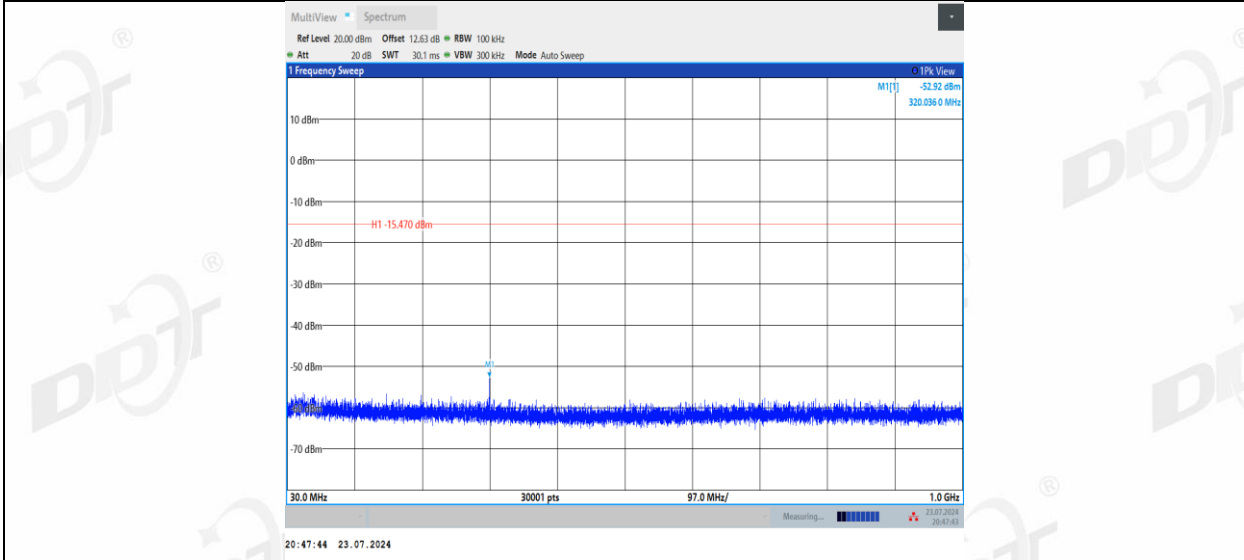
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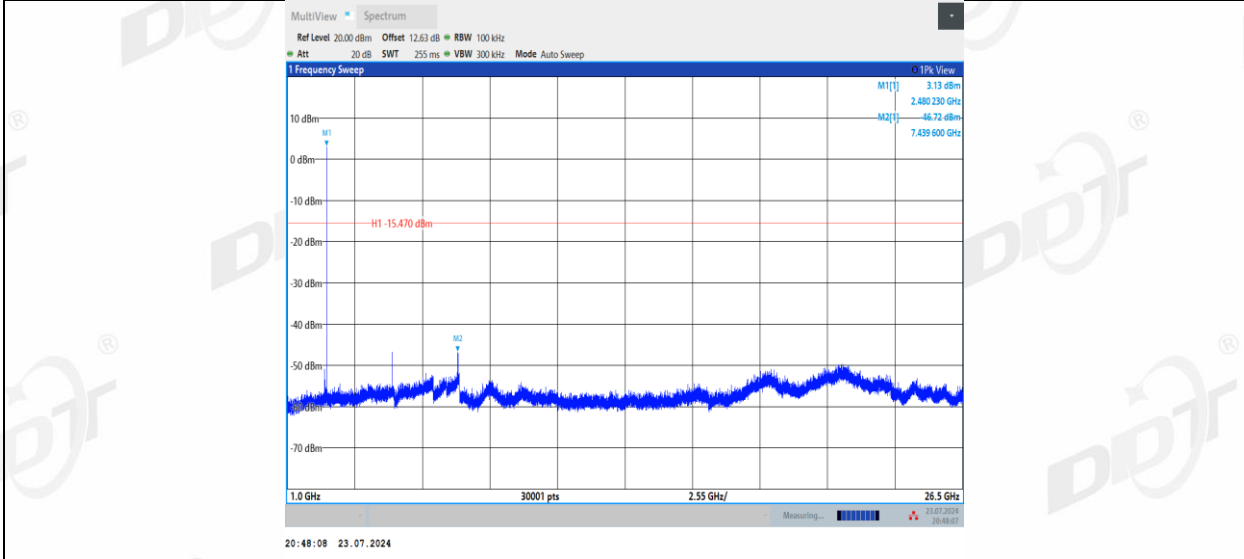
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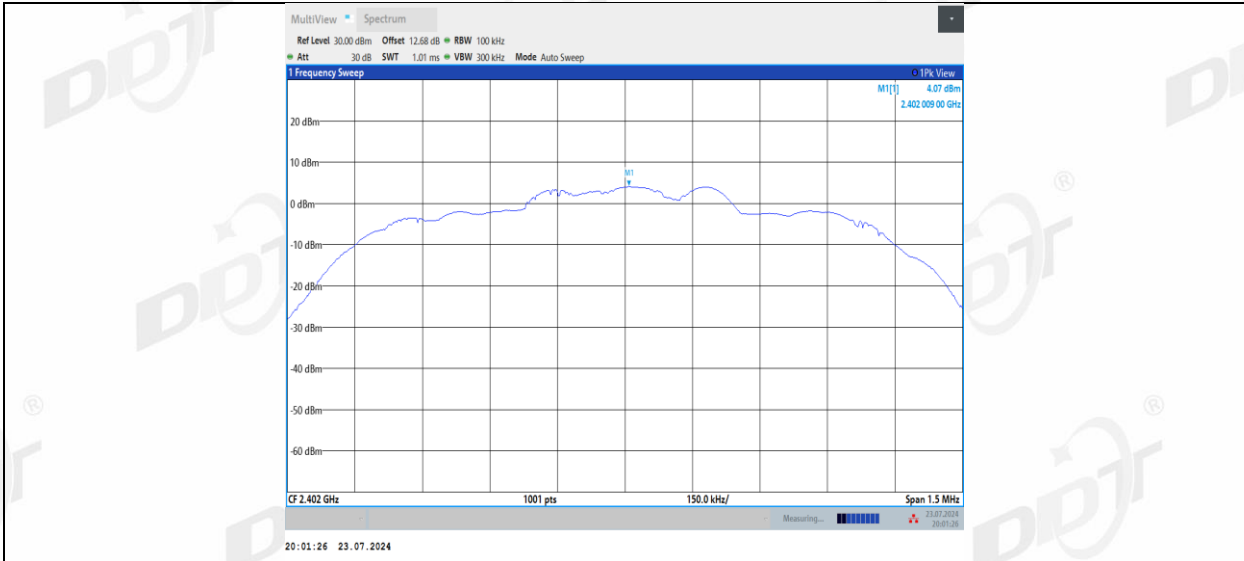
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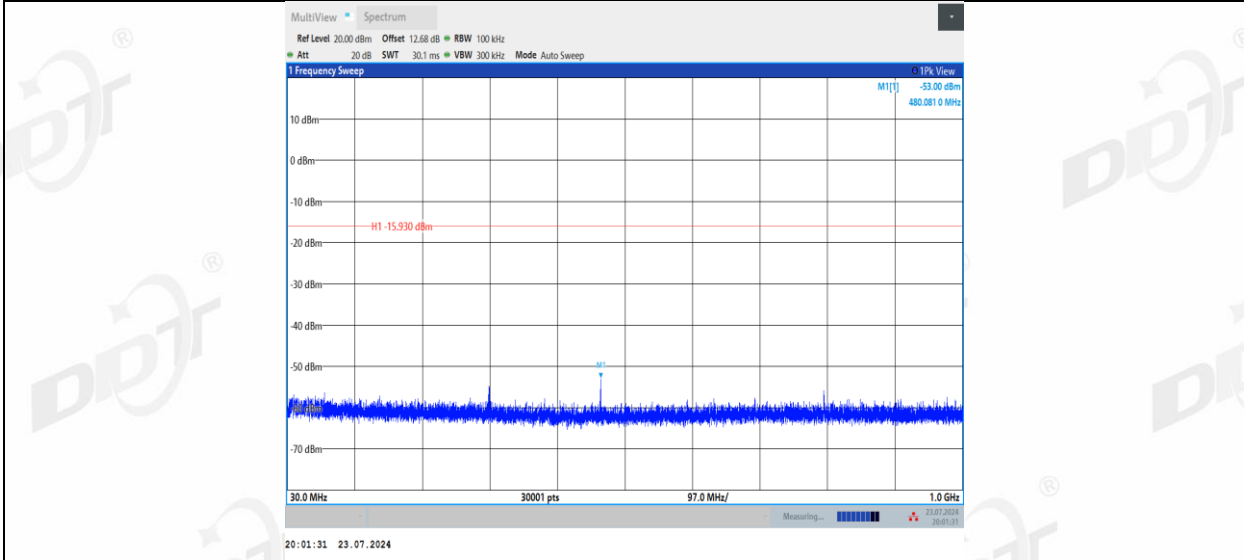
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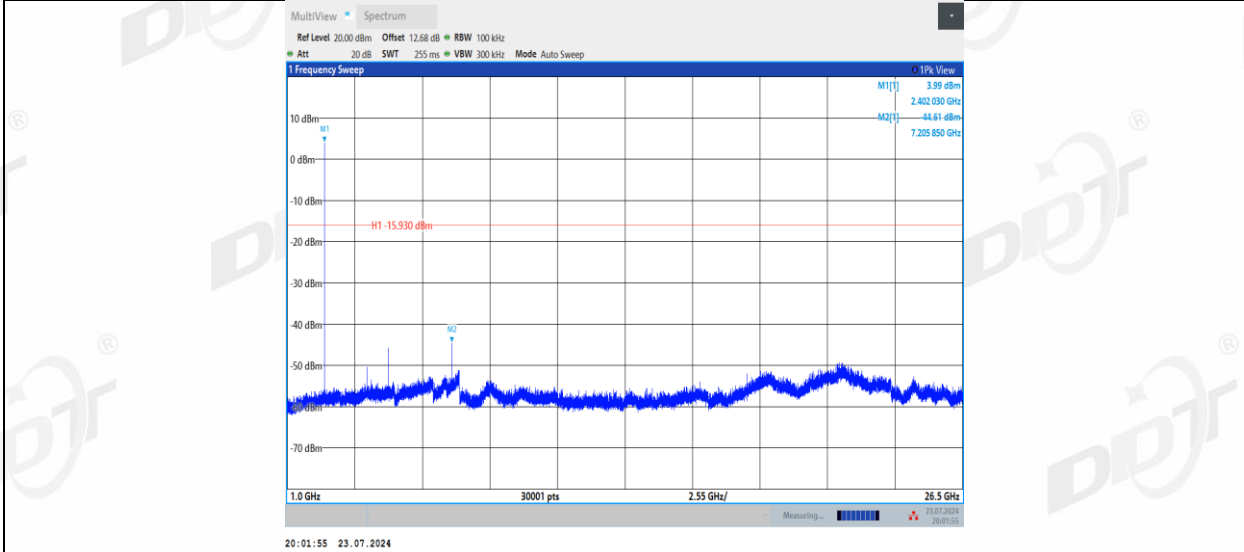
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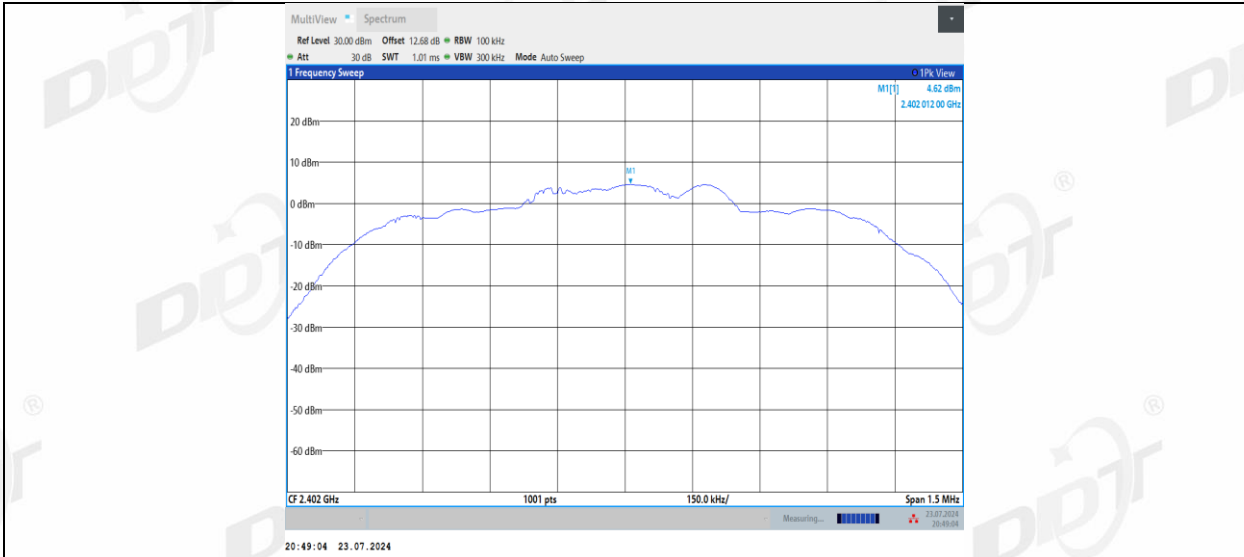
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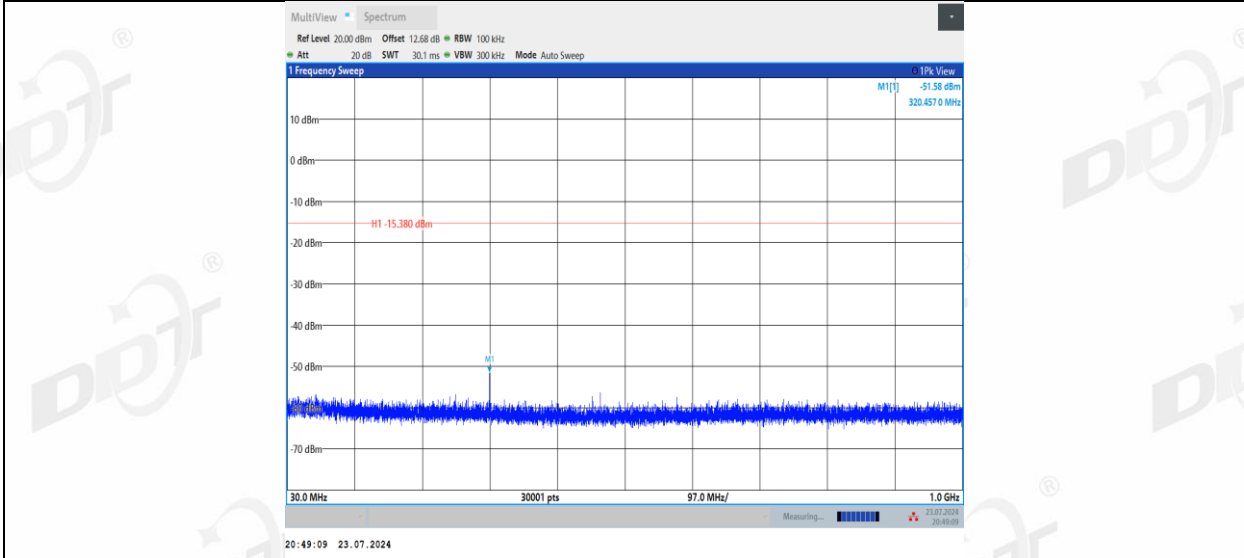
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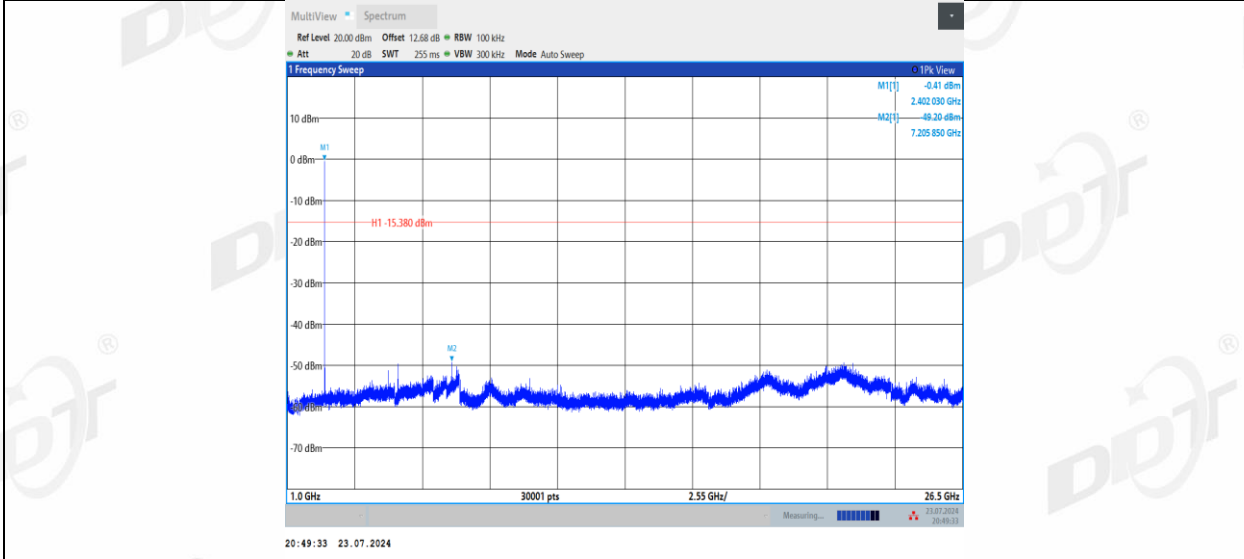
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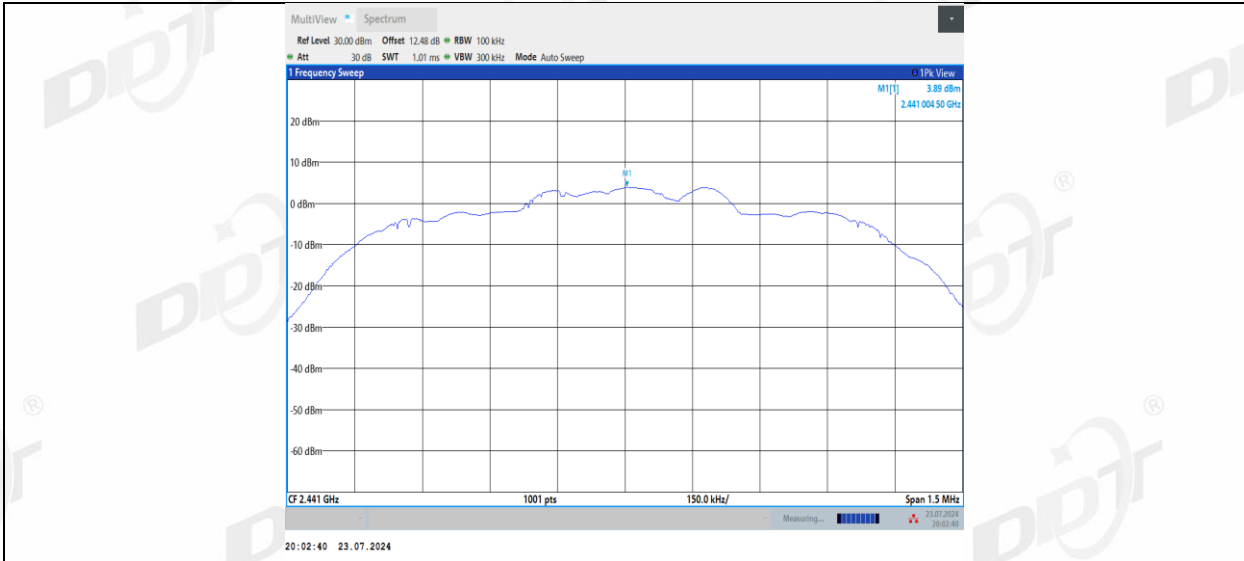
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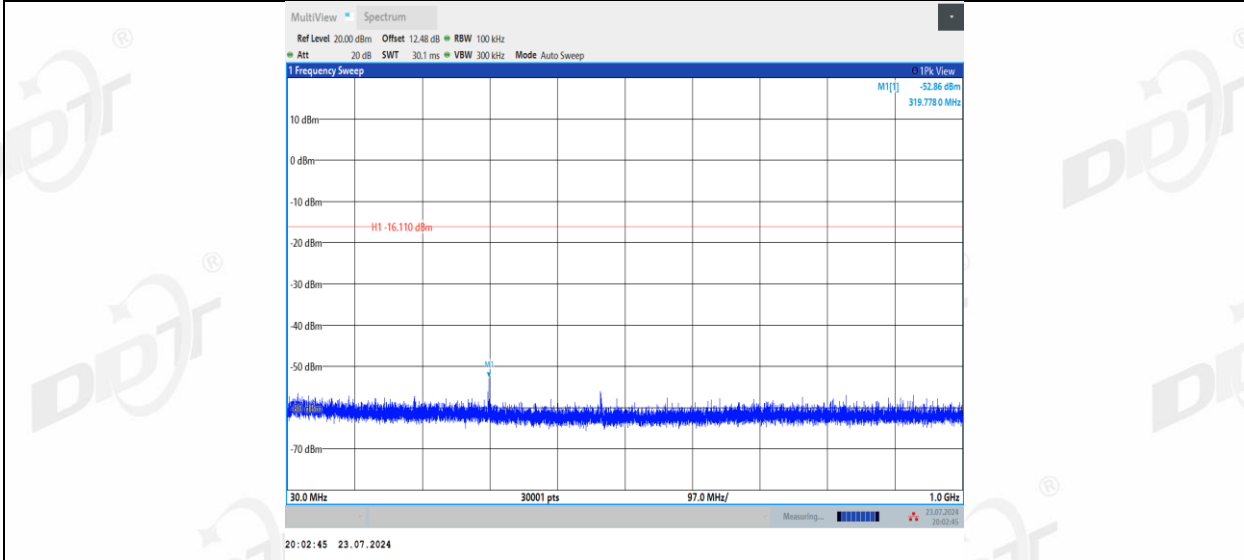
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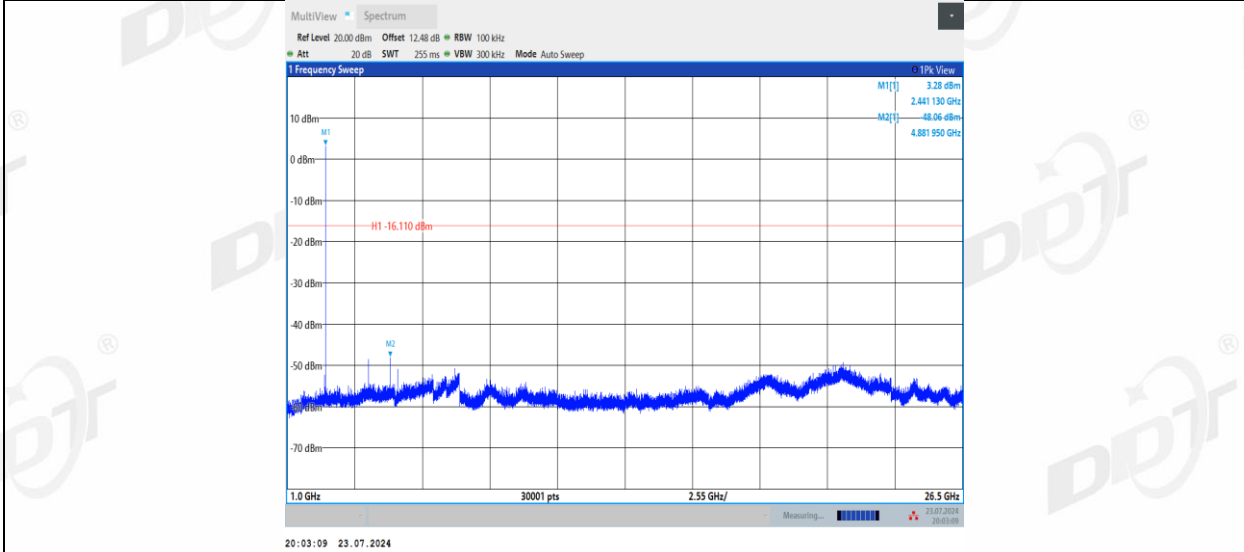
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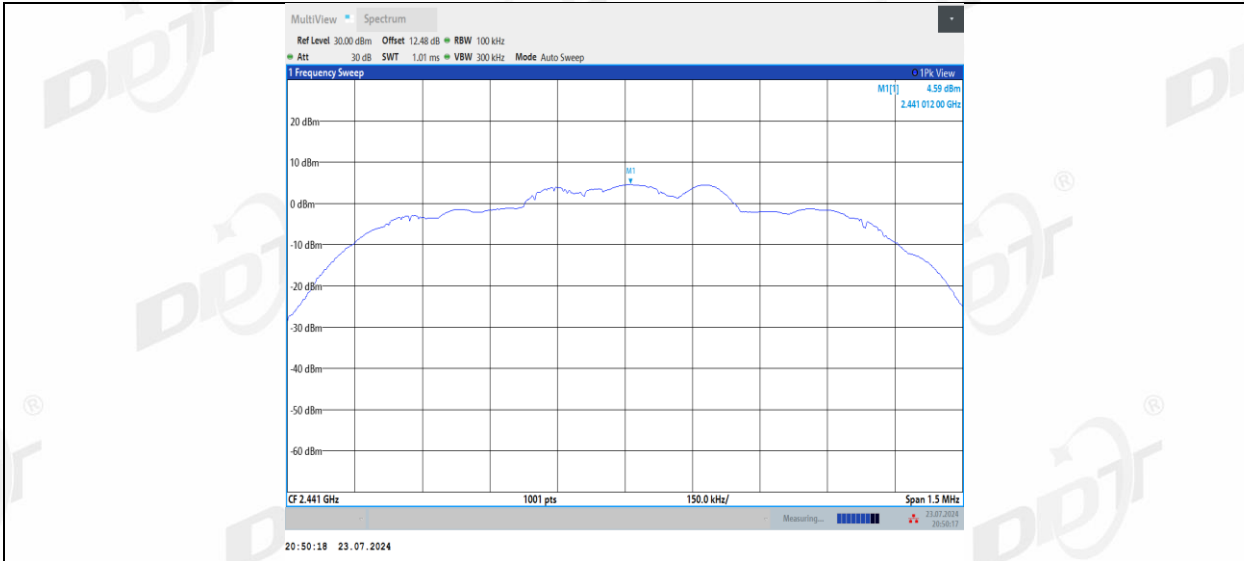
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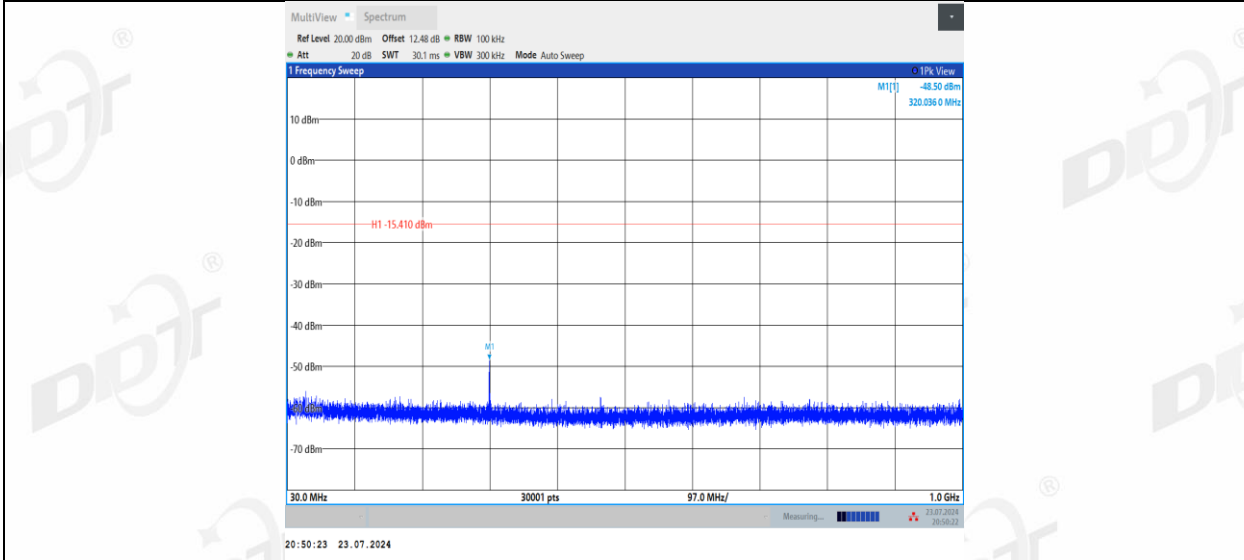
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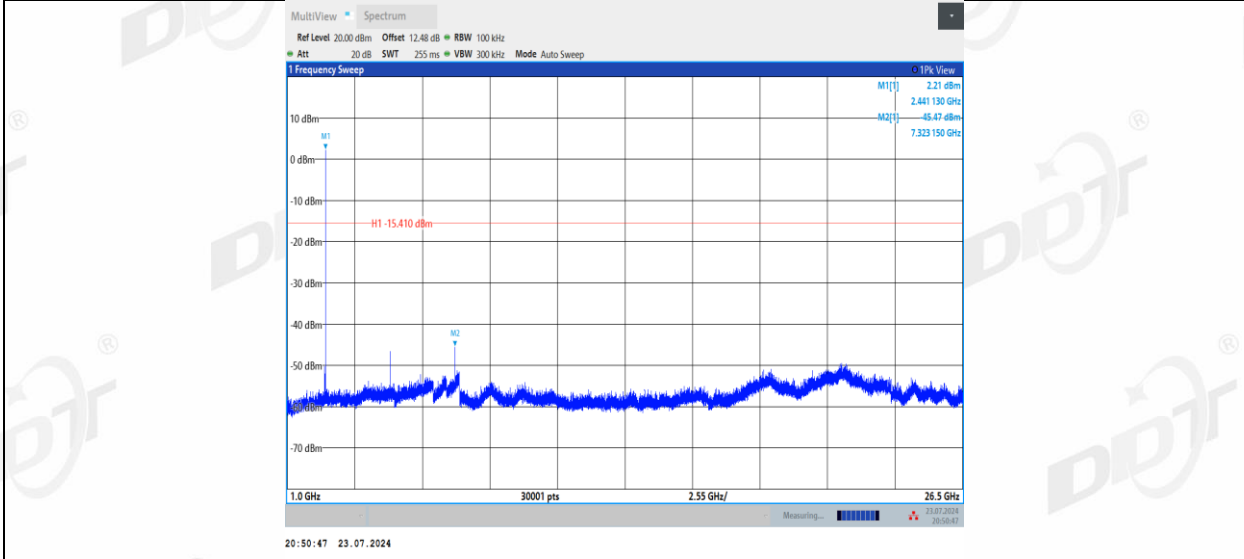
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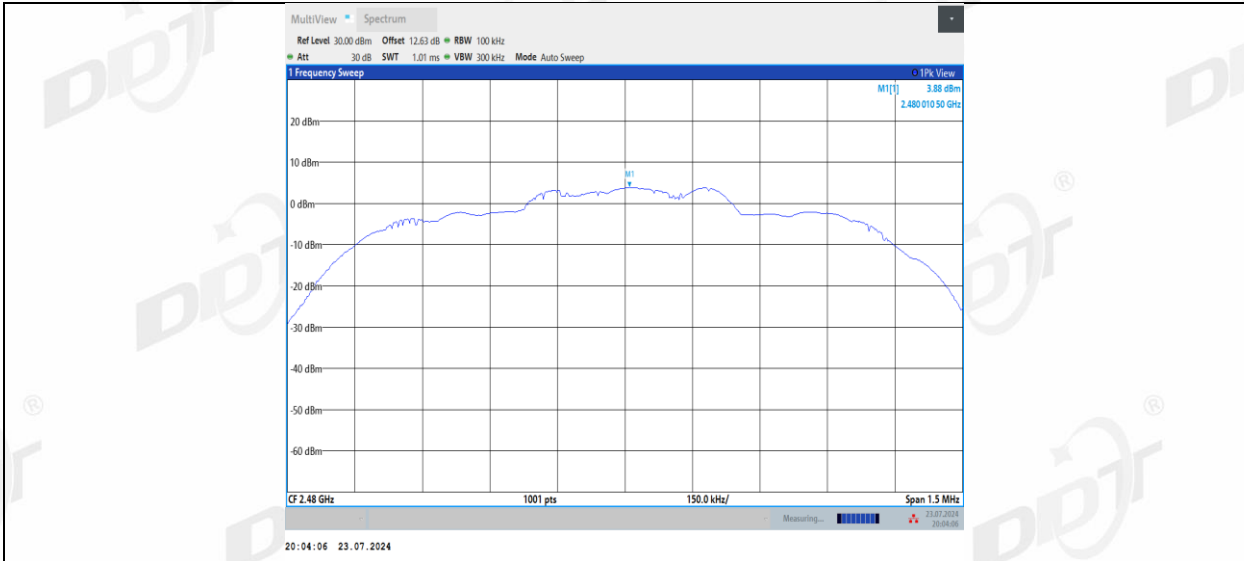
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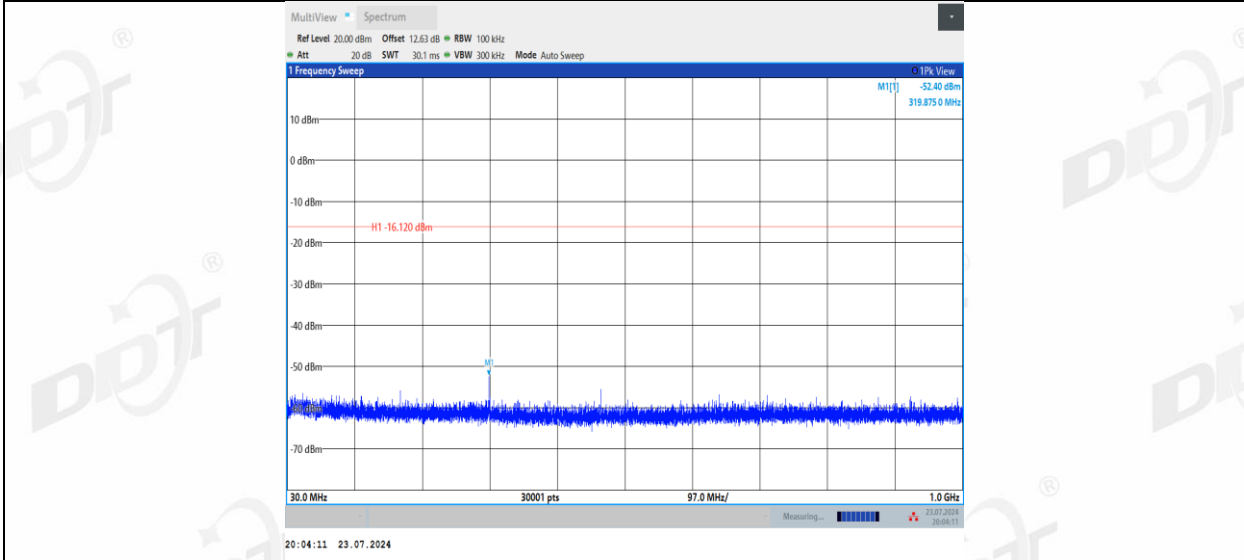
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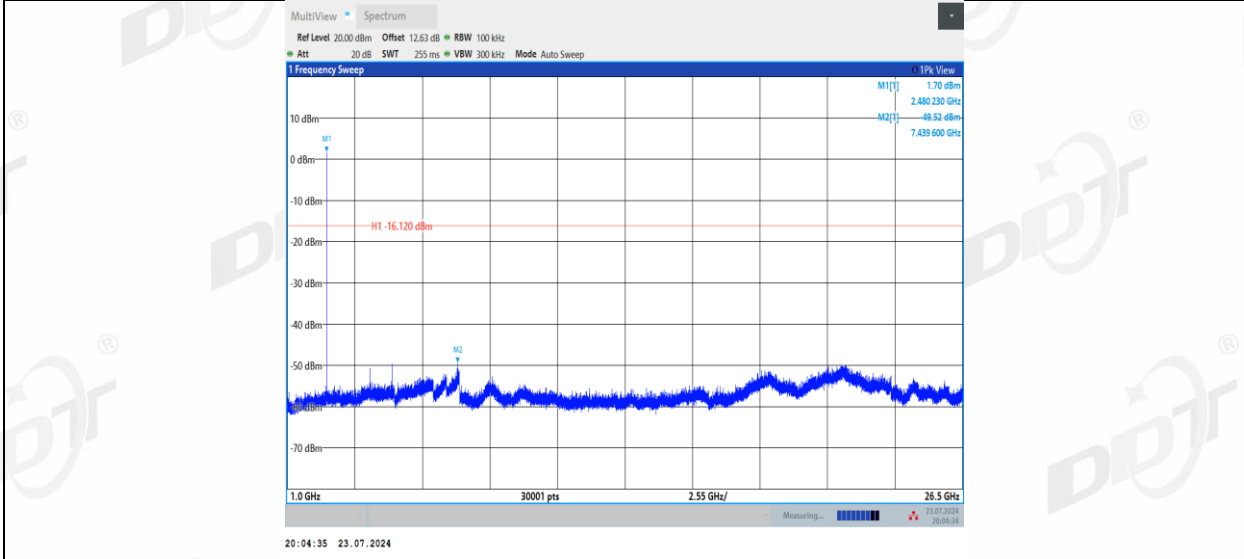
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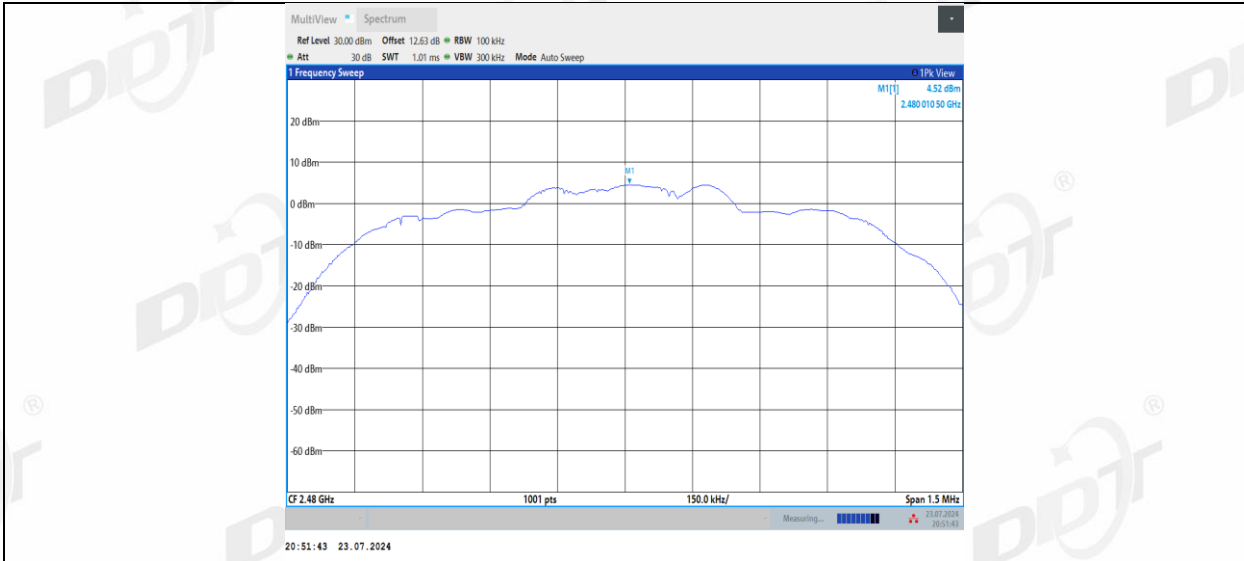
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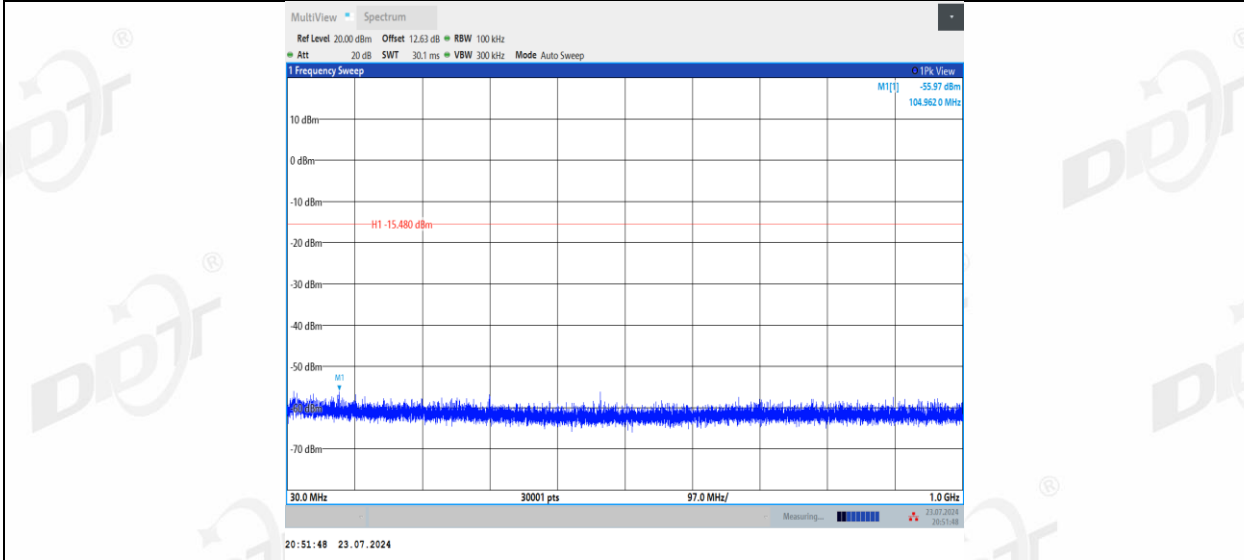
3DH5_Ant1_2480_1000~26500



3DH5_Ant2_2480_0~Reference



3DH5_Ant2_2480_30~1000



3DH5_Ant2_2480_1000~26500

