



RADIO TEST REPORT

Applicant	:	KREAFUNK ApS
Address of Applicant	:	Klamsagervej 35 A, st.8230 Abyhoj 8000 Denmark
Manufacturer	:	SHEN YU ELECTRONIC
Address of Manufacturer	:	2F,7 Building, hualun ParkFengHuang, FuYong, BaoAn, ShenZhen City
Equipment under Test	:	In-ear headphones with ANC
Model No.	:	Pure
FCC ID	:	2ACVC-PURE
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020
Report No.	:	DDT-RE25073024-24E02
Issue Date	:	2026/01/29
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

Applicant	:	KREAFUNK ApS
Address of Applicant	:	Klamsagervej 35 A, st.8230 Abyhoj 8000 Denmark
Equipment under Test	:	In-ear headphones with ANC
Model No.	:	Pure
Manufacturer	:	SHEN YU ELECTRONIC
Address of Manufacturer	:	2F,7 Building, hualun ParkFengHuang, FuYong, BaoAn, ShenZhen City

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10-2020

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25073024-24E02		
Date of Receipt:	2025/08/29	Date of Test:	2025/08/29 - 2025/09/29

Created: Chen Ziqin	Reviewed: Zoe Peng	Approved: Damon Hu
		
2025/09/29	2026/01/29	2026/01/29

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/01/29	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.247(a)(2)	/	Pass
2	Peak Output Power	47 CFR Part 15 15.247(b)(3)	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.247(e)	/	Pass
4	RF Conducted Spurious Emissions	47 CFR Part 15 15.247(d)	/	Pass
5	Radiated Emission	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
7	Antenna Requirement	47 CFR Part 15 15.203	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	Pass

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

2. General Test Information

2.1. Description of EUT

EUT Name	: In-ear headphones with ANC
Model Number	: Pure
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: Charging case: DC 5V powered by an external adapter or a built-in 3.7V lithium battery. Wireless earphones: DC 3.85V built-in lithium battery
Hardware Version	: YF09-AC7016G-V0.2
Software Version	: F2C63C9A
Antenna Type	: FPC Antenna
Max Antenna Gain(dBi)	: 1.13

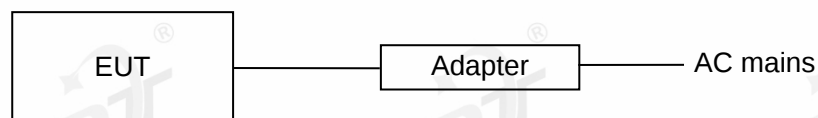
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: FCC assist 1.0.4.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table:

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Channel, and Frequency			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK 1M	10	CH0	2402
	10	CH19	2440
	10	CH39	2480
GFSK 2M	10	CH1	2404
	10	CH19	2440
	10	CH38	2478

Note: Ant1 is for the left ear, and Ant2 is for the right ear

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

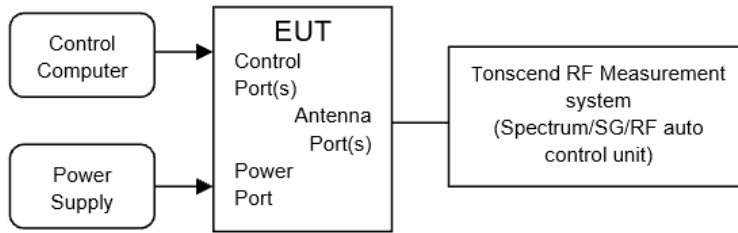
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonscend	JS0806-2	21I8060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 6 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10-2020 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

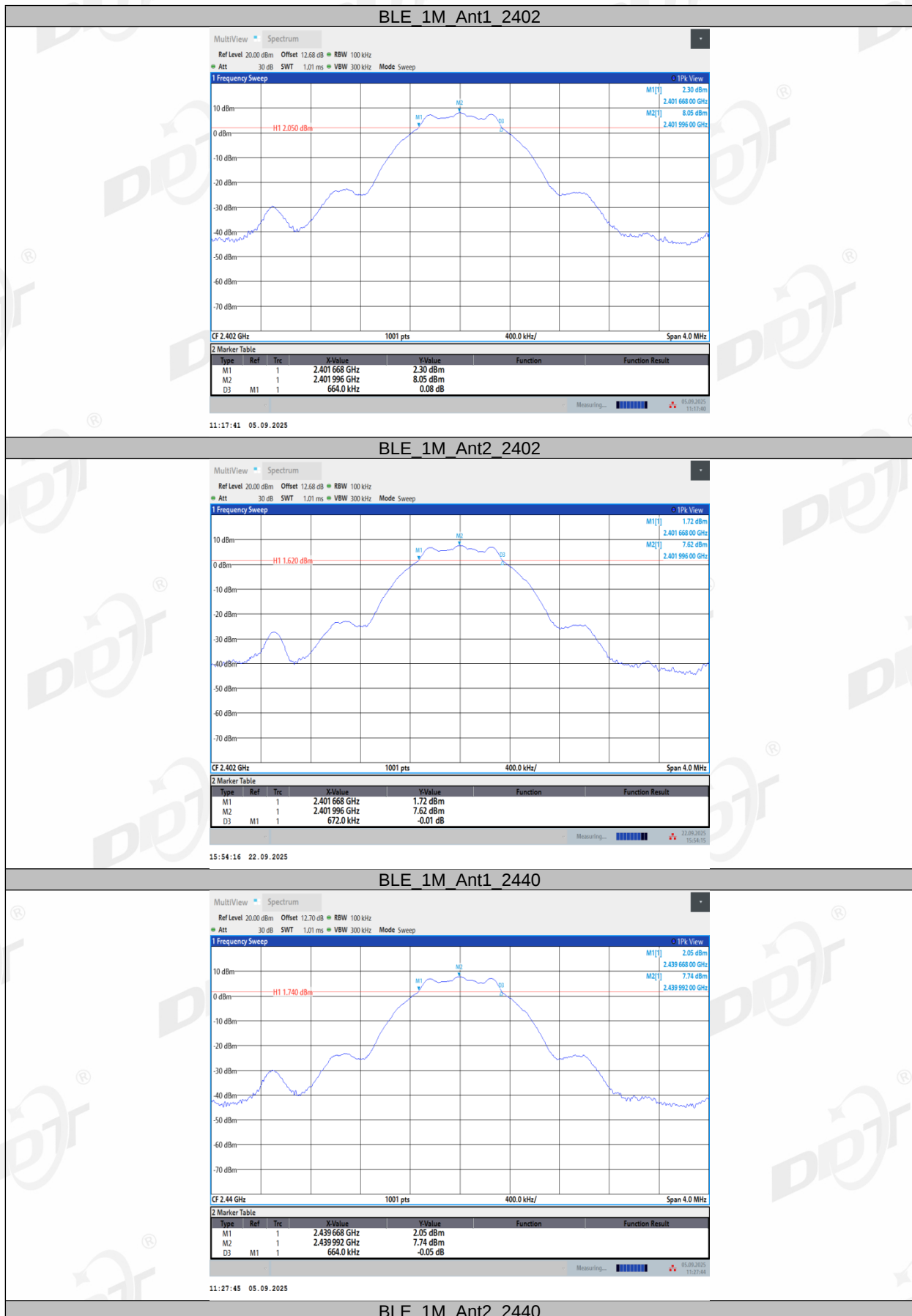
RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report.

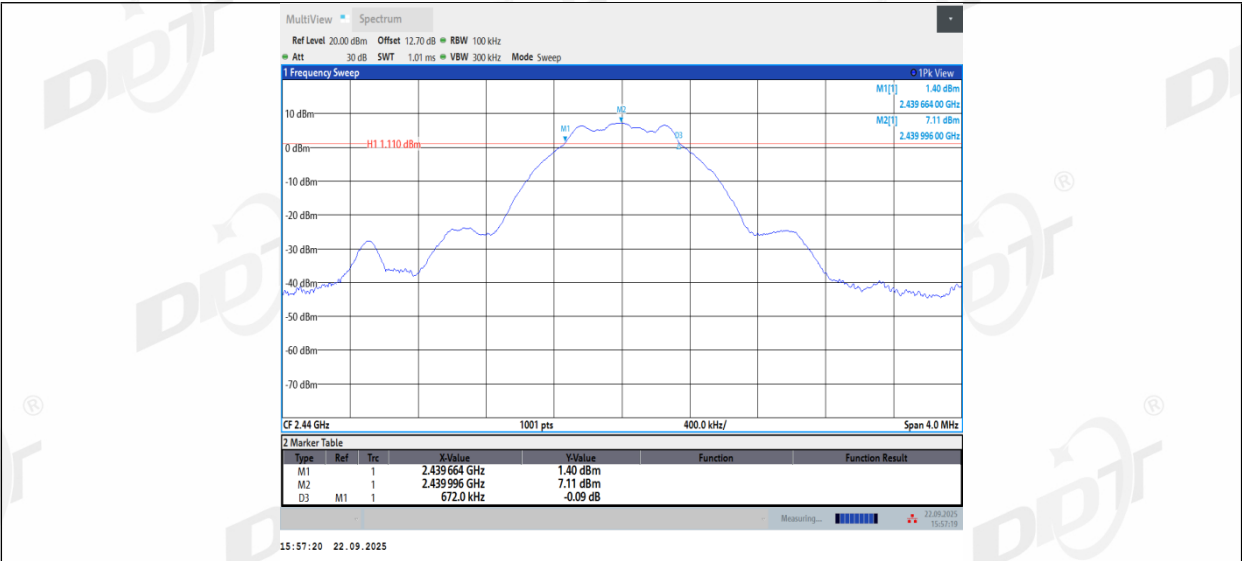
4.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5℃,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.33	0.5	PASS
	Ant2	2402	0.67	2401.67	2402.34	0.5	PASS
	Ant1	2440	0.66	2439.67	2440.33	0.5	PASS
	Ant2	2440	0.67	2439.66	2440.34	0.5	PASS
	Ant1	2480	0.67	2479.66	2480.33	0.5	PASS
	Ant2	2480	0.67	2479.66	2480.34	0.5	PASS
BLE_2M	Ant1	2404	1.15	2403.43	2404.58	0.5	PASS
	Ant2	2404	1.15	2403.43	2404.58	0.5	PASS
	Ant1	2440	1.15	2439.44	2440.58	0.5	PASS
	Ant2	2440	1.16	2439.43	2440.59	0.5	PASS
	Ant1	2478	1.15	2477.43	2478.58	0.5	PASS
	Ant2	2478	1.15	2477.43	2478.58	0.5	PASS

4.5. Test graphs





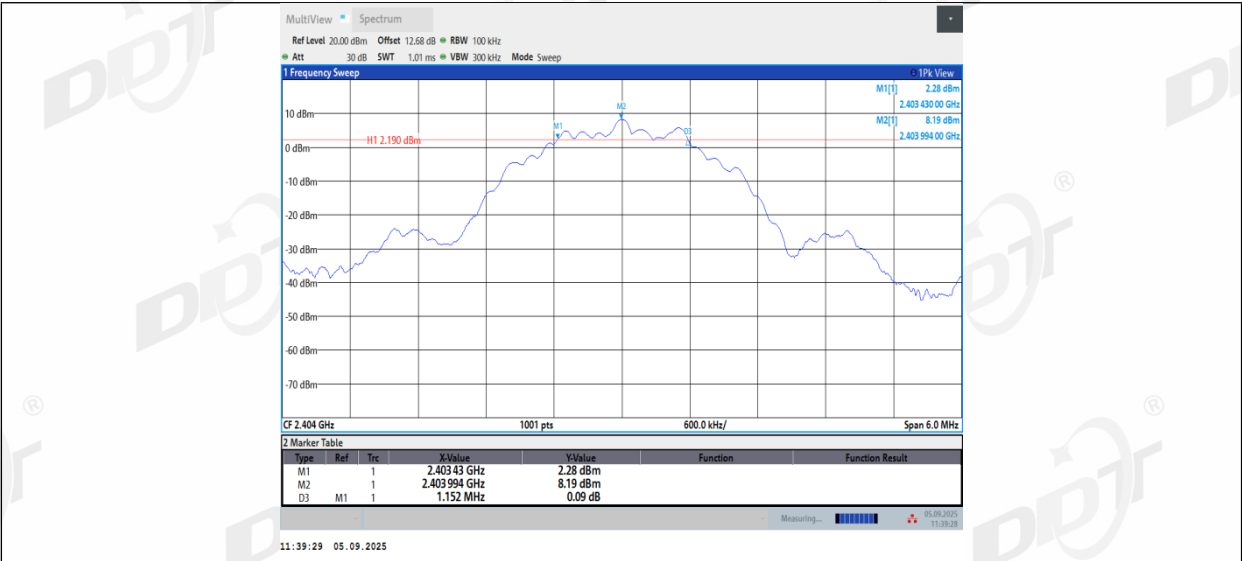
BLE_1M_Ant1_2480



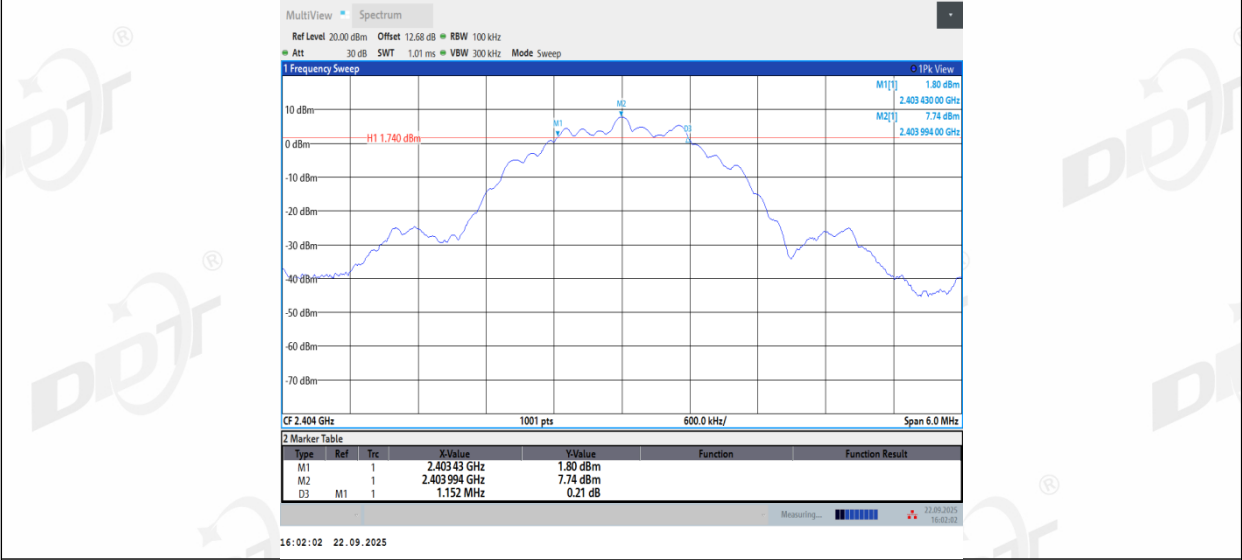
BLE_1M_Ant2_2480



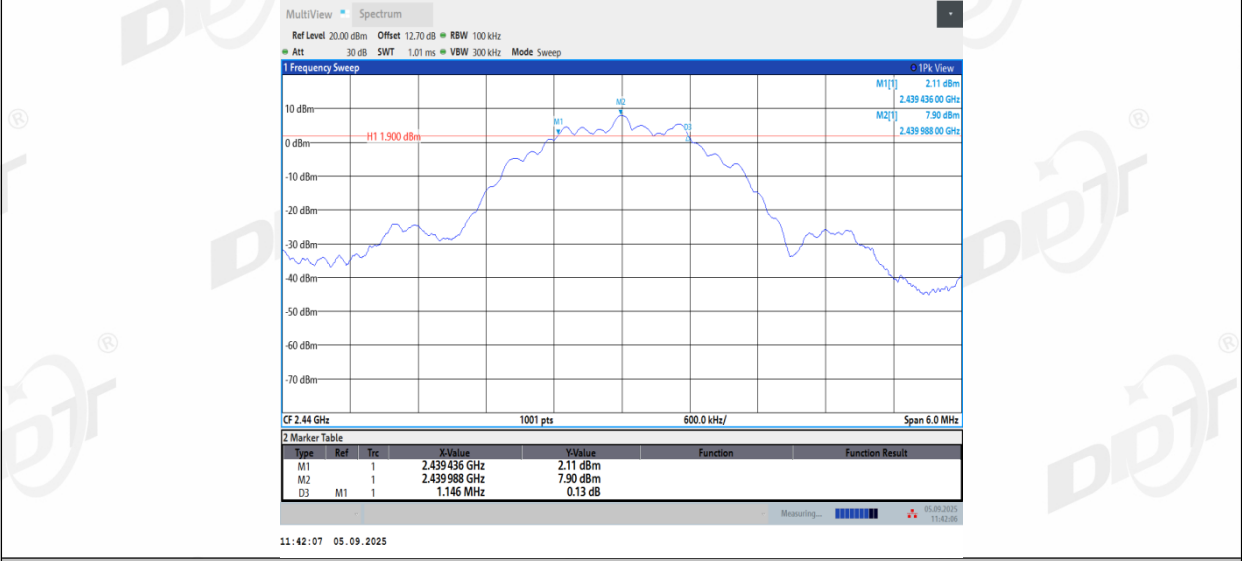
BLE_2M_Ant1_2404



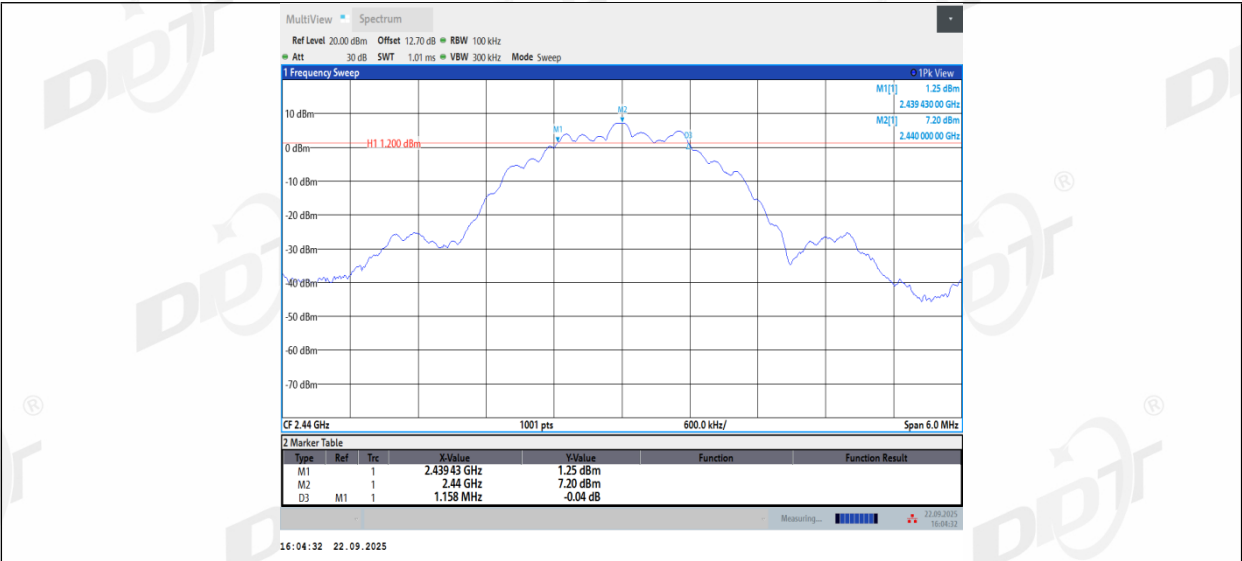
BLE_2M_Ant2_2404



BLE_2M_Ant1_2440



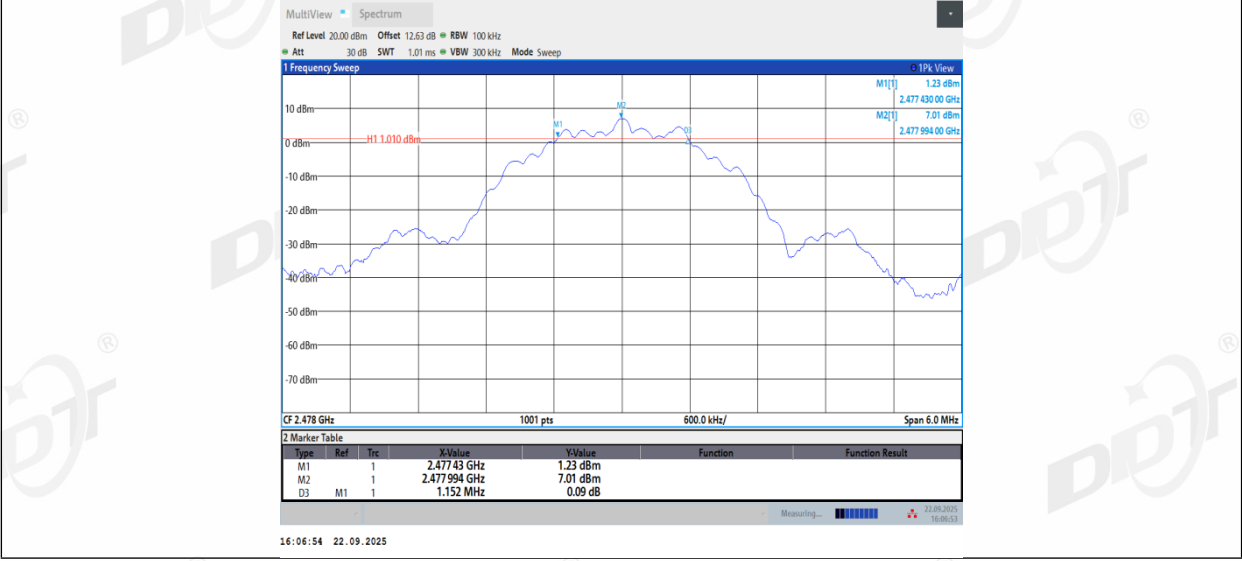
BLE_2M_Ant2_2440



BLE_2M_Ant1_2478

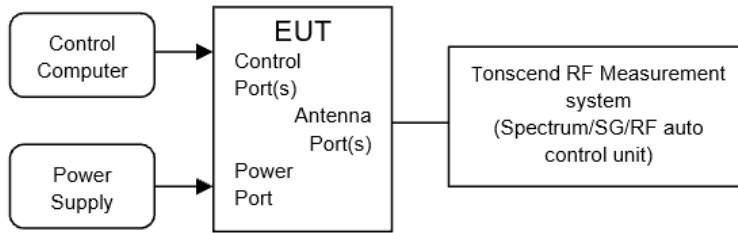


BLE_2M_Ant2_2478



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2020 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

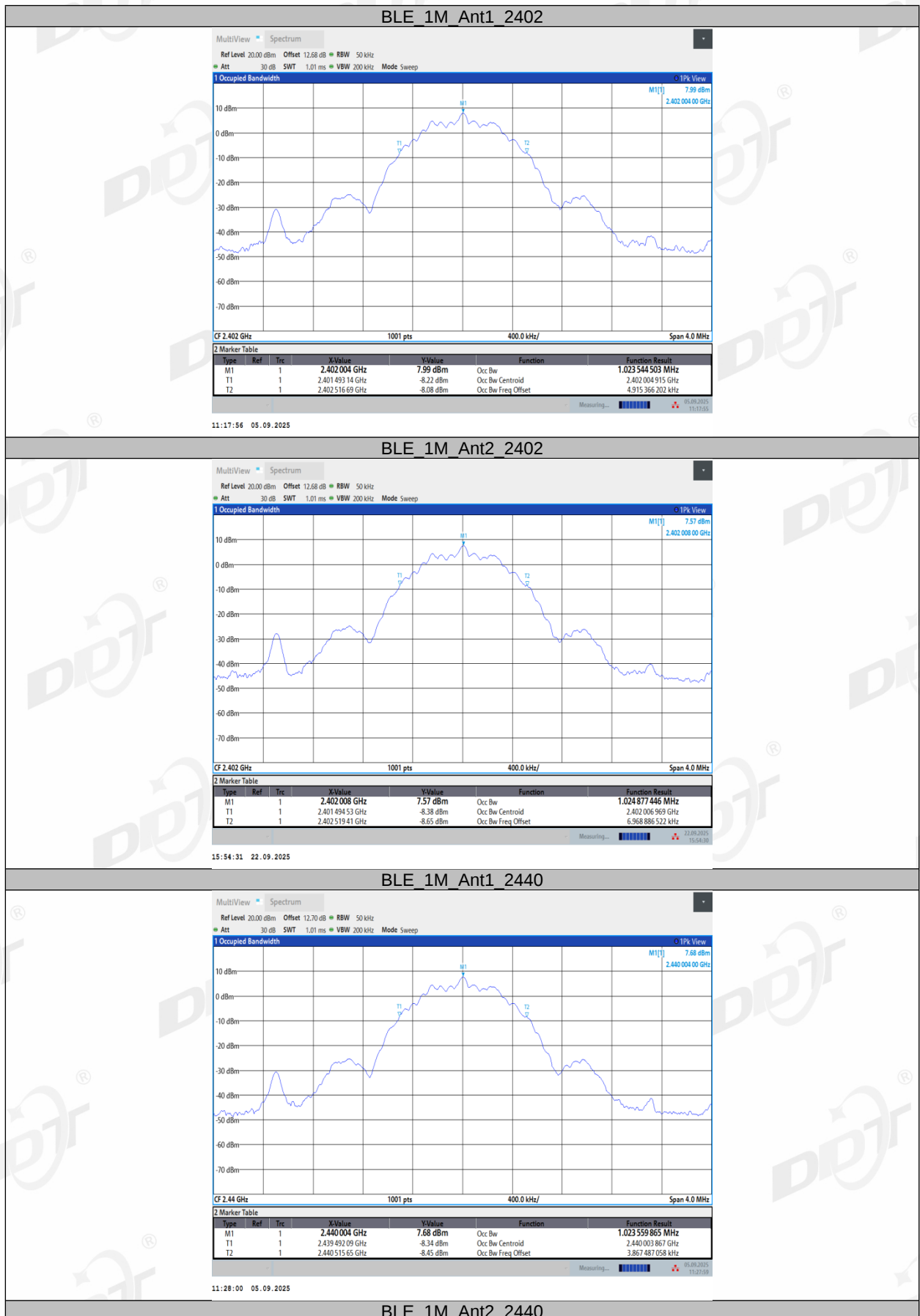
RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

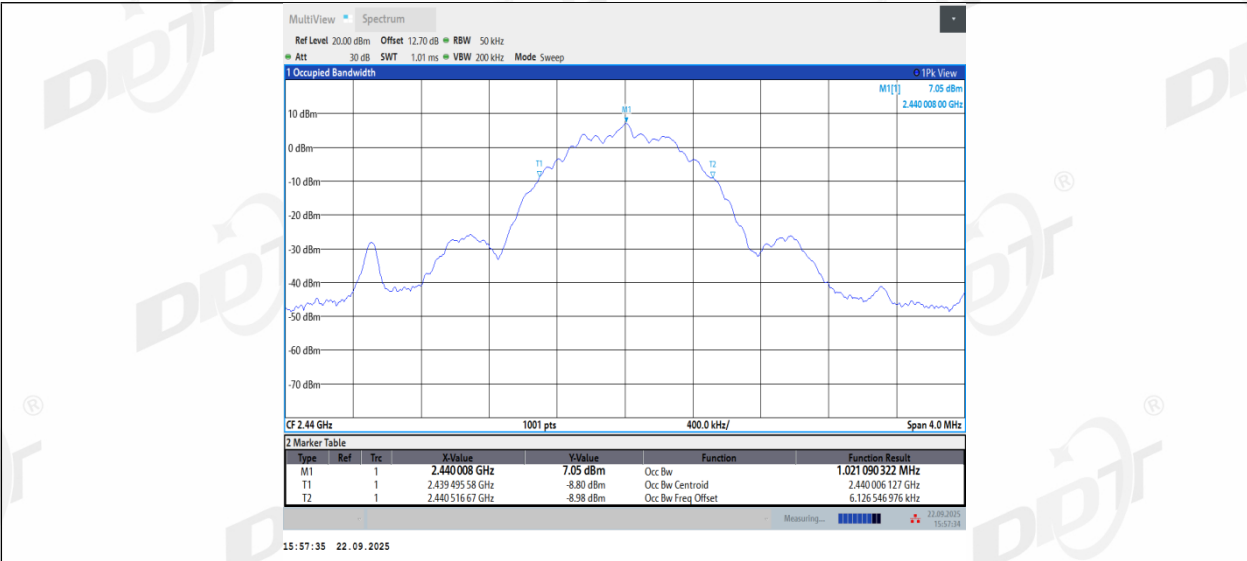
5.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5℃,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

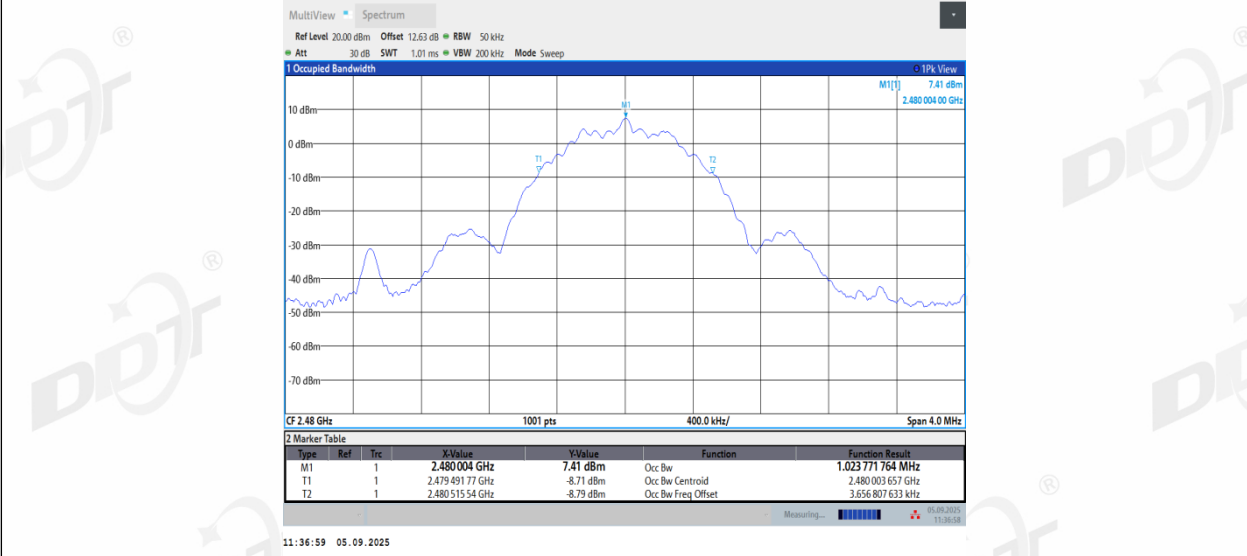
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0235	2401.4931	2402.5167	---	---
	Ant2	2402	1.0249	2401.4945	2402.5194	---	---
	Ant1	2440	1.0236	2439.4921	2440.5156	---	---
	Ant2	2440	1.0211	2439.4956	2440.5167	---	---
	Ant1	2480	1.0238	2479.4918	2480.5155	---	---
	Ant2	2480	1.0250	2479.4928	2480.5178	---	---
BLE_2M	Ant1	2404	2.0308	2402.9966	2405.0274	---	---
	Ant2	2404	2.0284	2403.0003	2405.0287	---	---
	Ant1	2440	2.0314	2438.9969	2441.0283	---	---
	Ant2	2440	2.0244	2439.0011	2441.0255	---	---
	Ant1	2478	2.0320	2476.9949	2479.0268	---	---
	Ant2	2478	2.0311	2476.9967	2479.0278	---	---

5.5. Test graphs

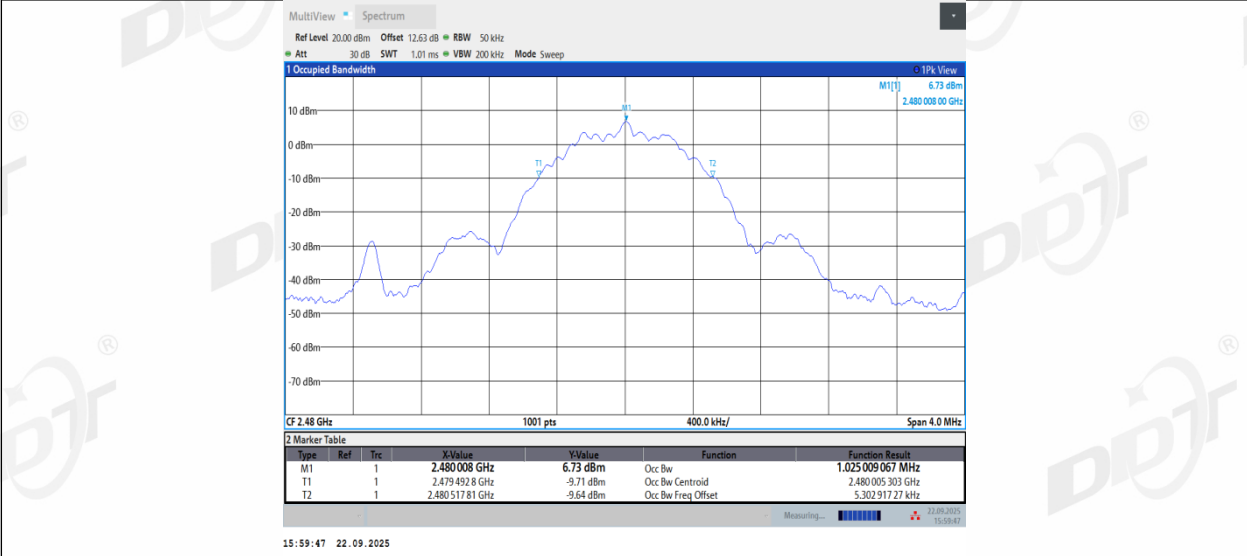




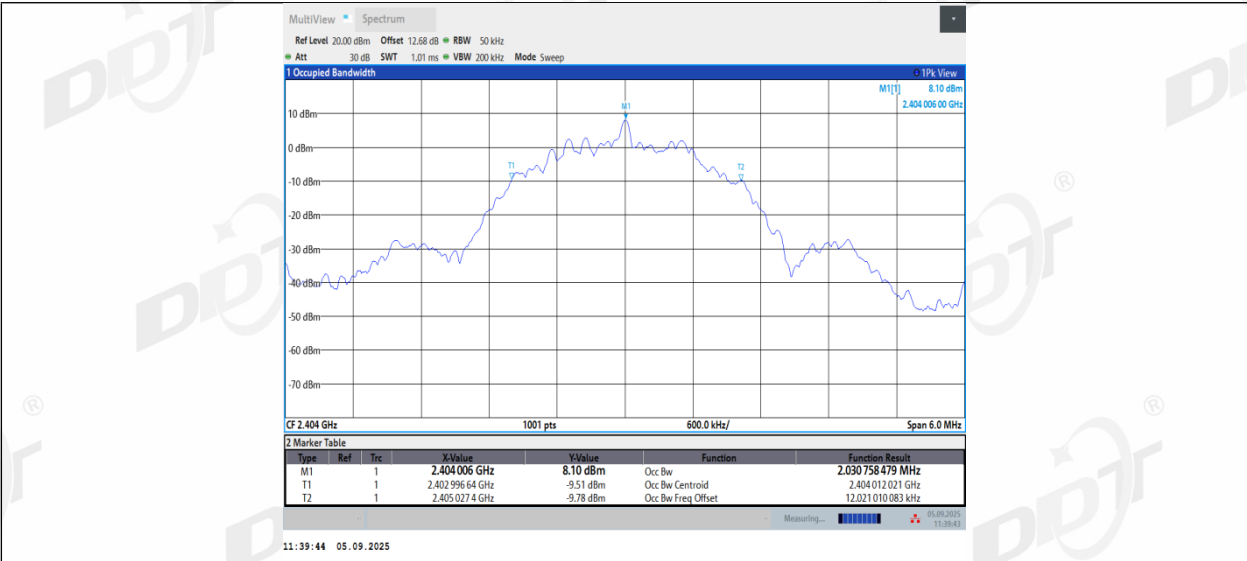
BLE_1M_Ant1_2480



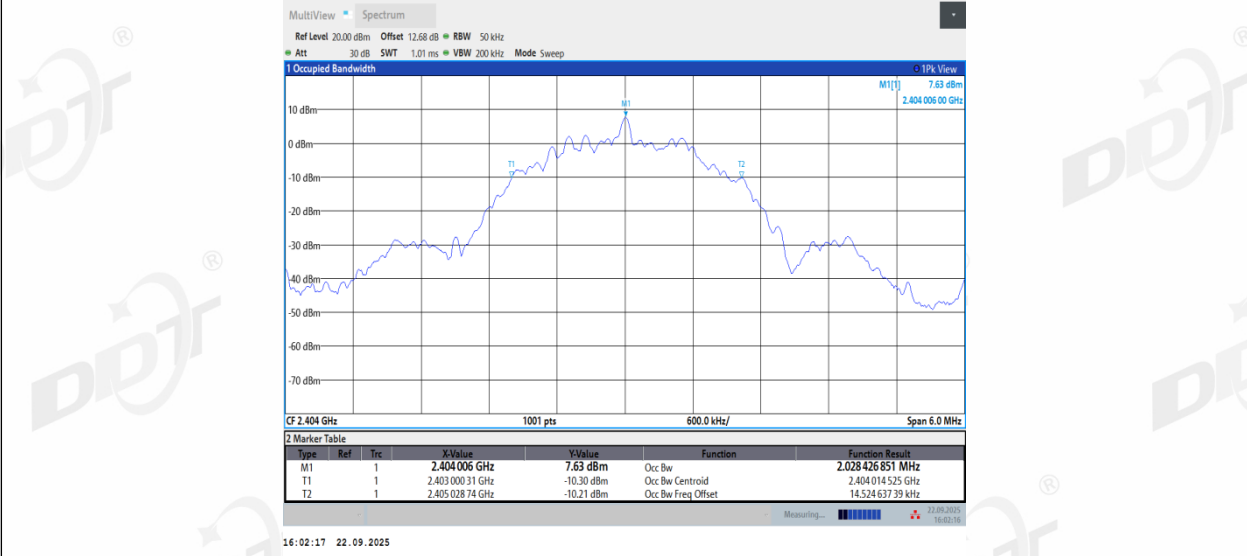
BLE_1M_Ant2_2480



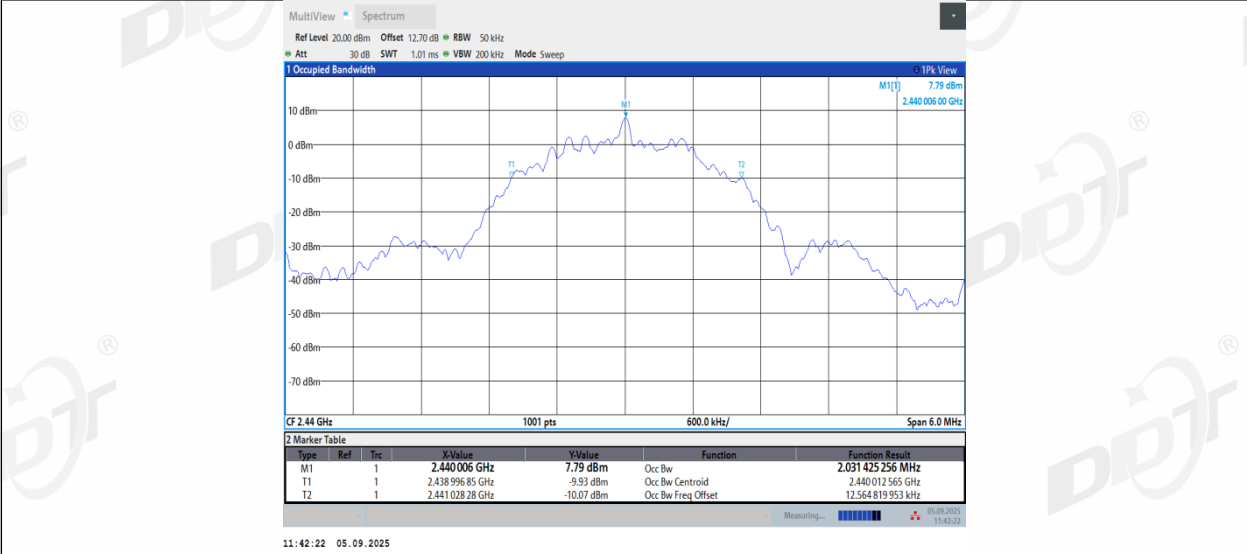
BLE_2M_Ant1_2404



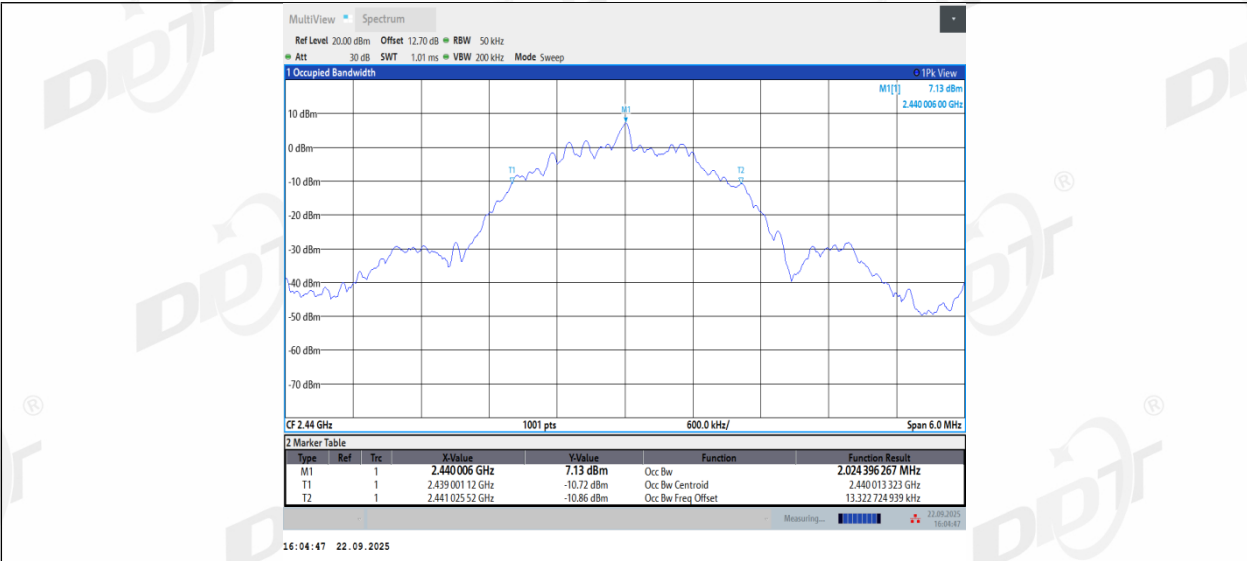
BLE_2M_Ant2_2404



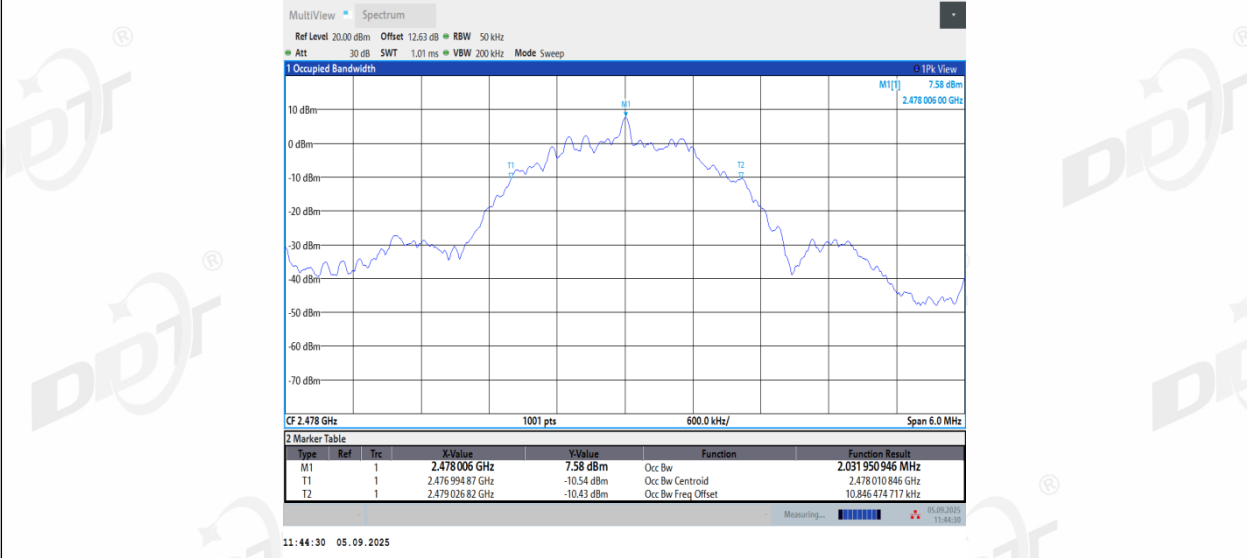
BLE_2M_Ant1_2440



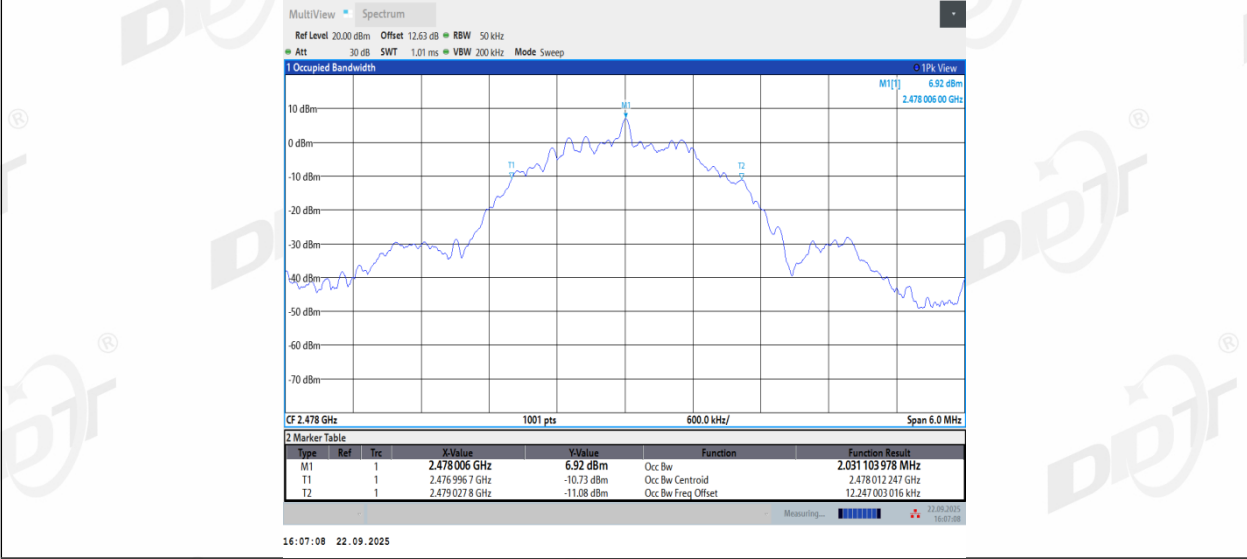
BLE_2M_Ant2_2440



BLE_2M_Ant1_2478

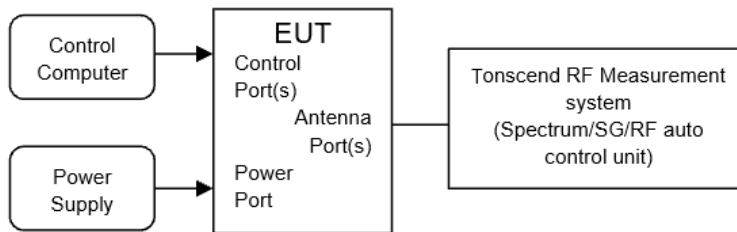


BLE_2M_Ant2_2478



6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi, the e.i.r.p shall not exceed 4W.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2020 clause 11.9.1.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

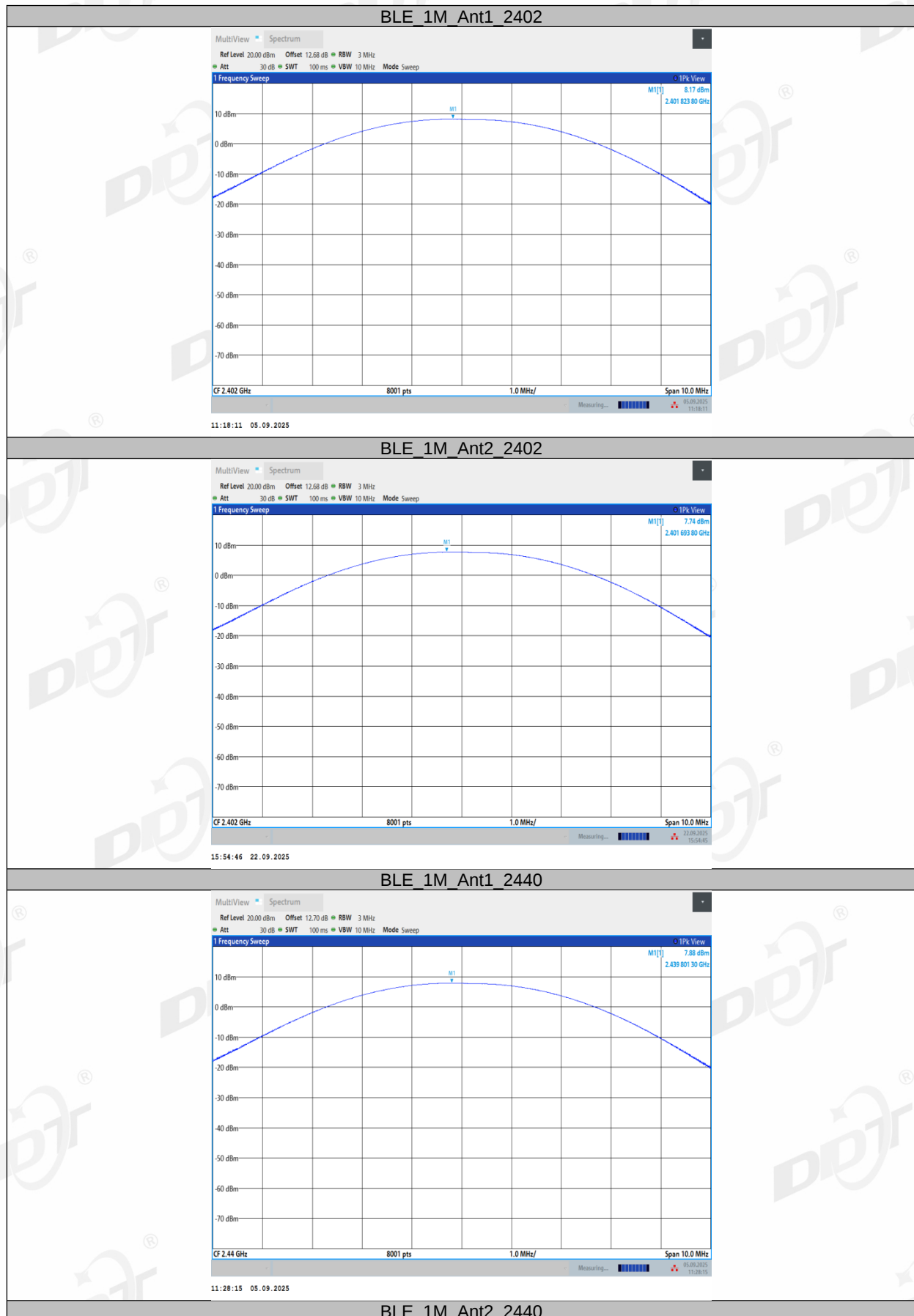
RBW:	≥DTS bandwidth
VBW:	≥3 x RBW
Span	≥3 x RBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, use peak marker function to determine the peak amplitude level.

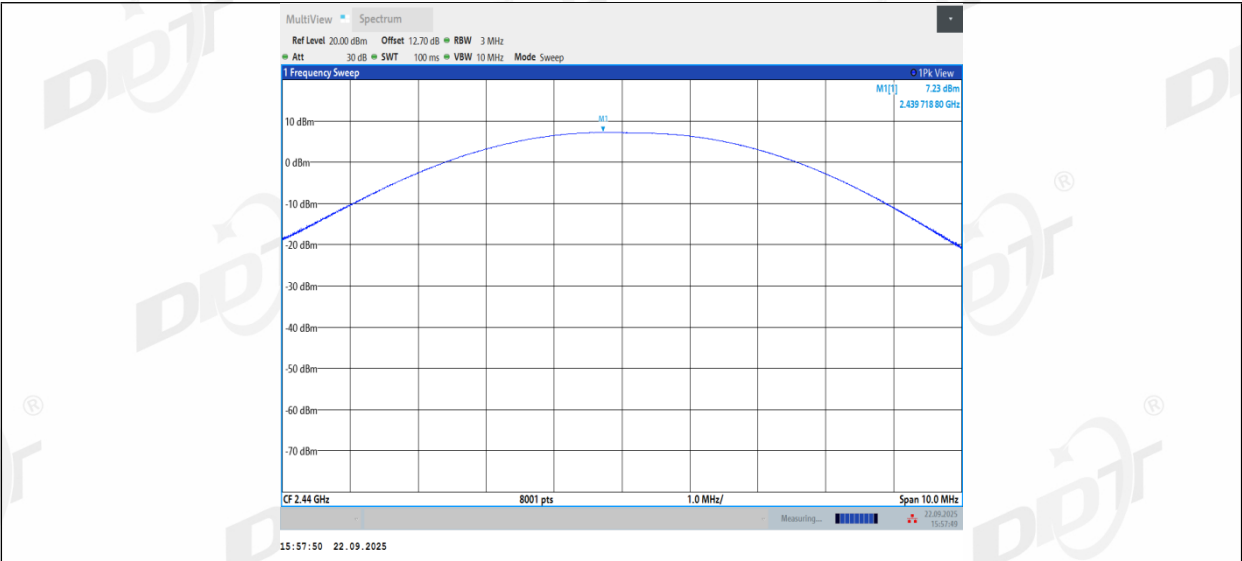
6.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5°C,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

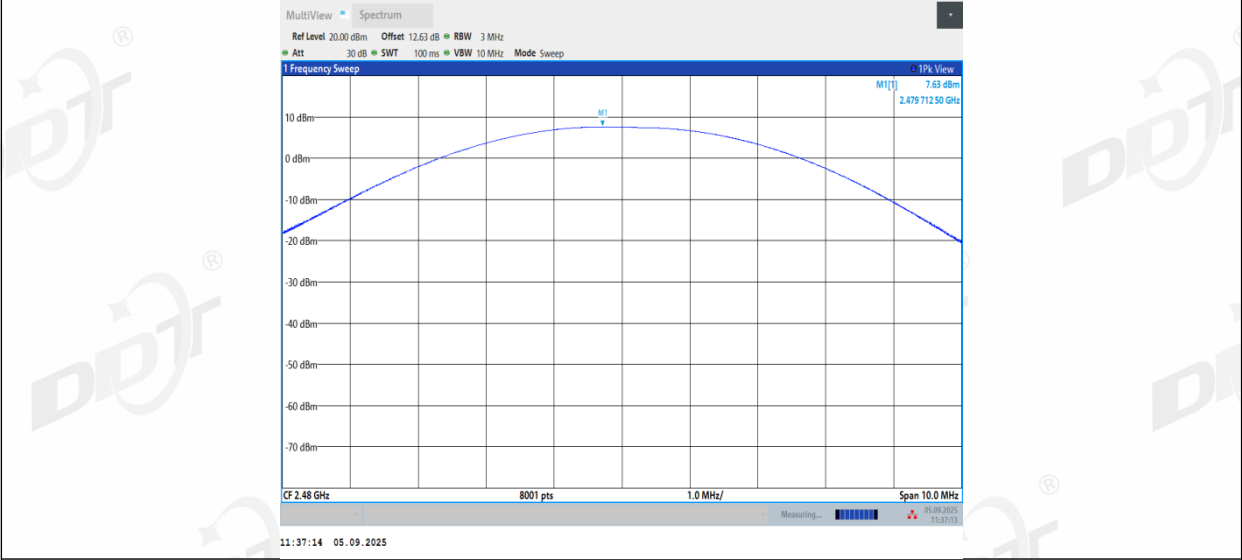
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.17	≤30	9.30	≤36	PASS
	Ant2	2402	7.74	≤30	8.87	≤36	PASS
	Ant1	2440	7.88	≤30	9.01	≤36	PASS
	Ant2	2440	7.23	≤30	8.36	≤36	PASS
	Ant1	2480	7.63	≤30	8.76	≤36	PASS
	Ant2	2480	6.94	≤30	8.07	≤36	PASS
BLE_2M	Ant1	2404	8.35	≤30	9.48	≤36	PASS
	Ant2	2404	7.86	≤30	8.99	≤36	PASS
	Ant1	2440	8.03	≤30	9.16	≤36	PASS
	Ant2	2440	7.37	≤30	8.50	≤36	PASS
	Ant1	2478	7.88	≤30	9.01	≤36	PASS
	Ant2	2478	7.22	≤30	8.35	≤36	PASS

6.5. Test graphs

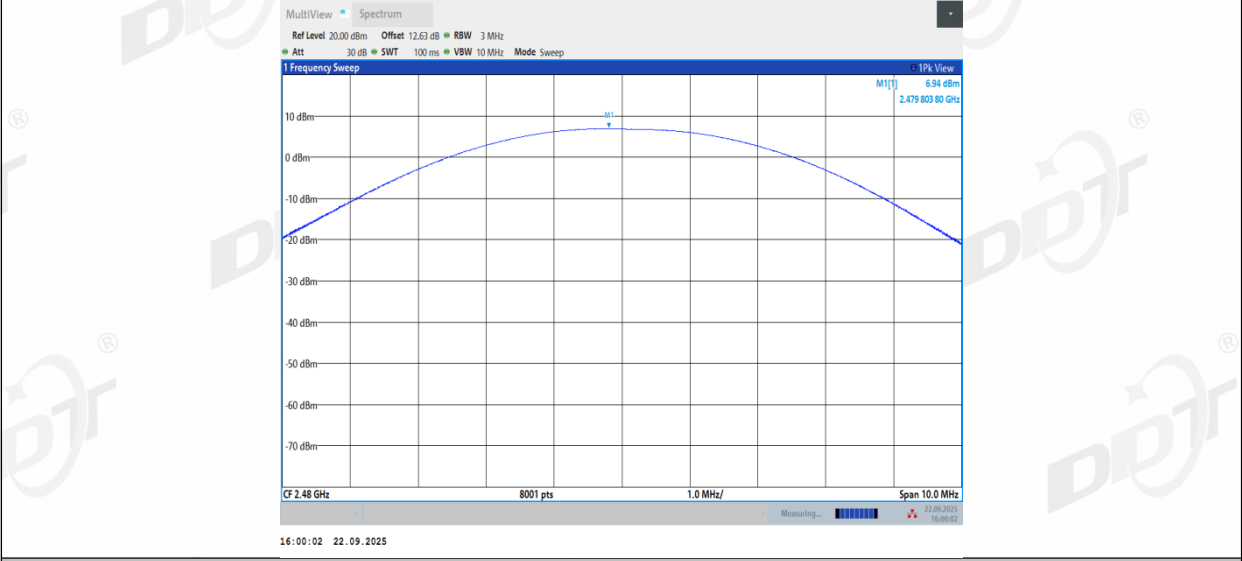




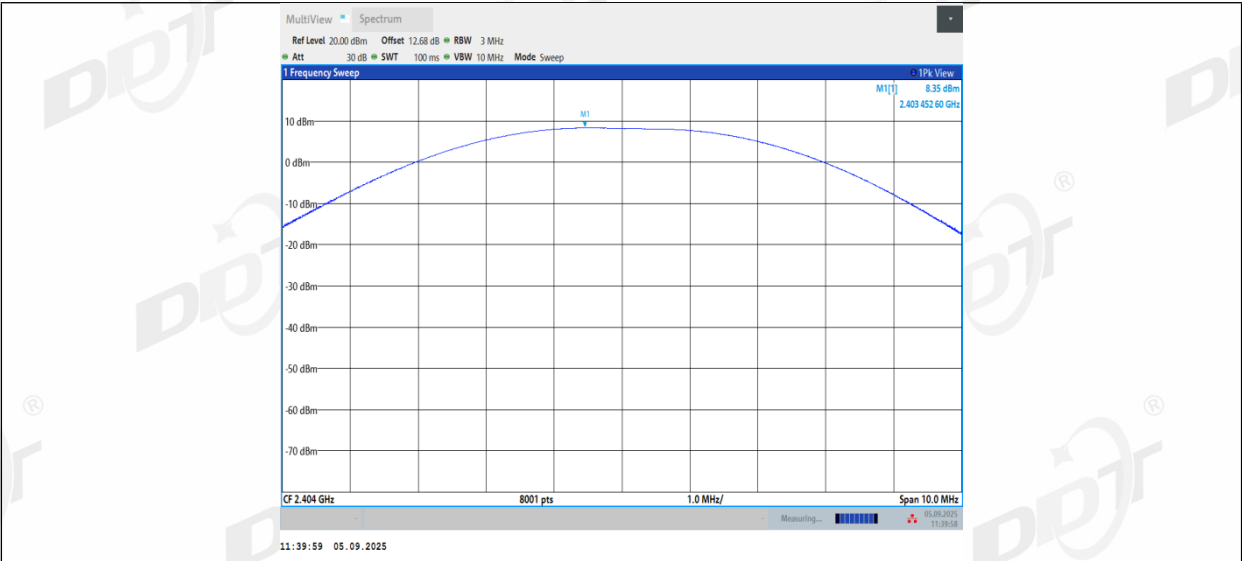
BLE_1M_Ant1_2480



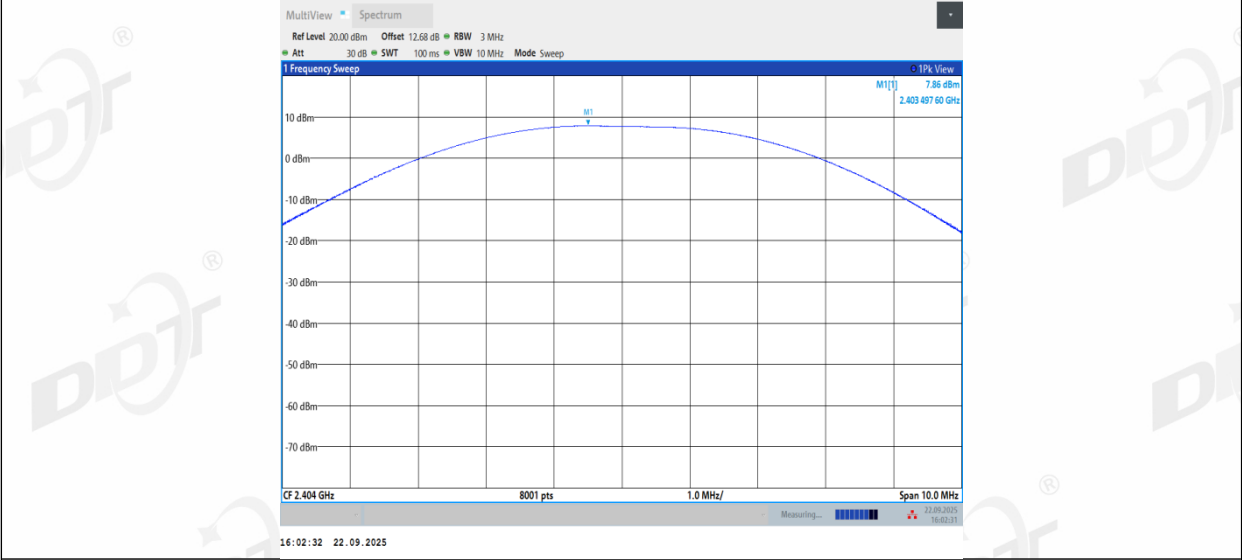
BLE_1M_Ant2_2480



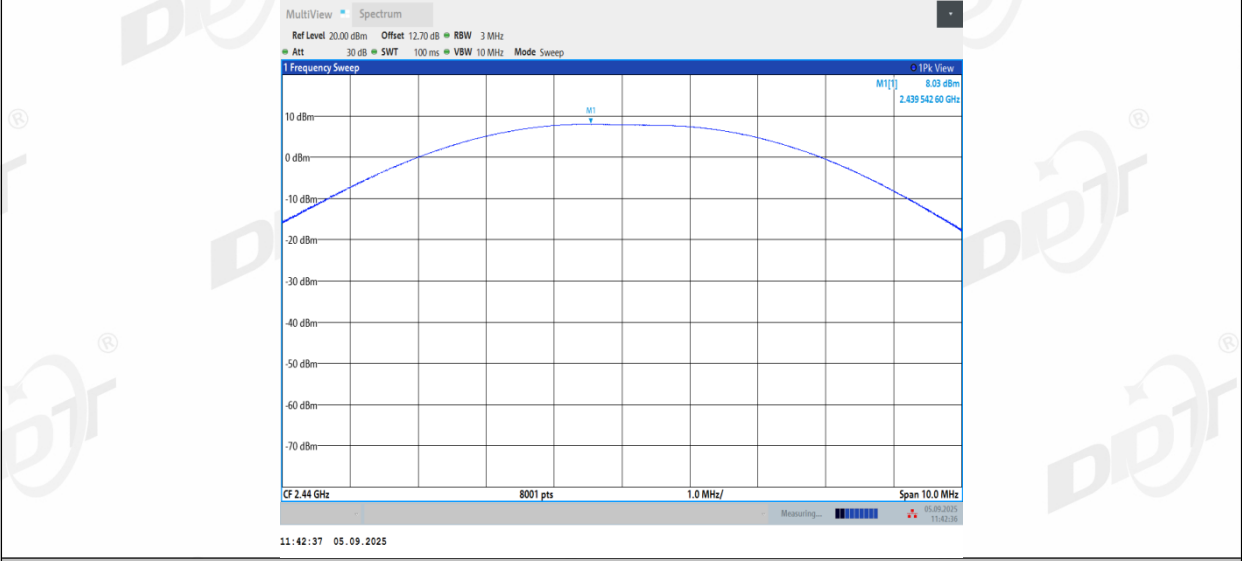
BLE_2M_Ant1_2404



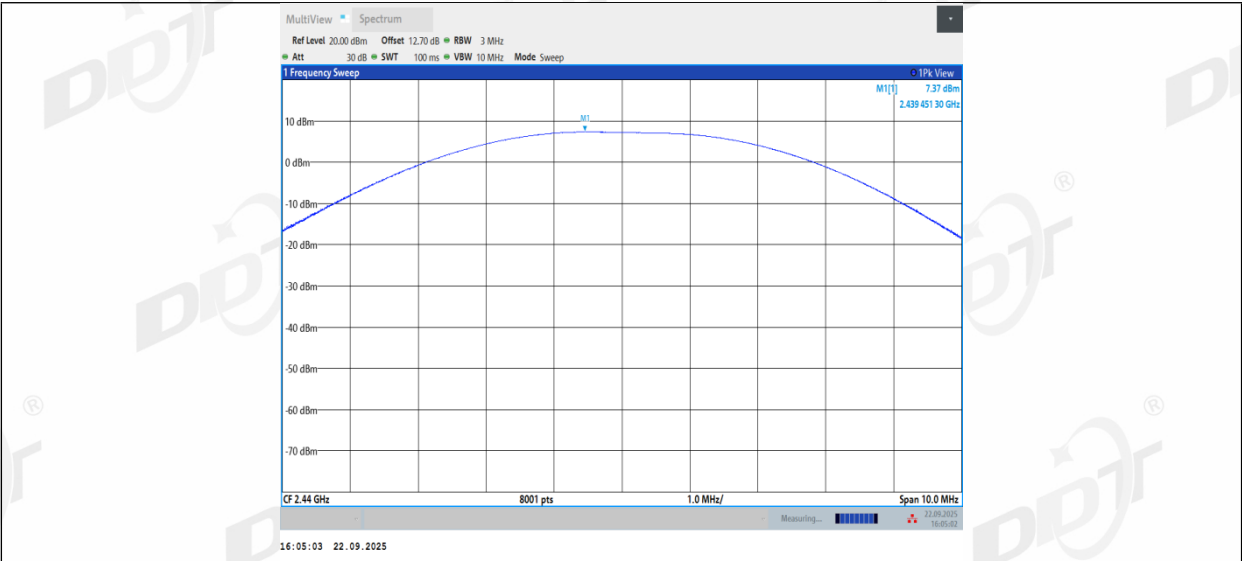
BLE_2M_Ant2_2404



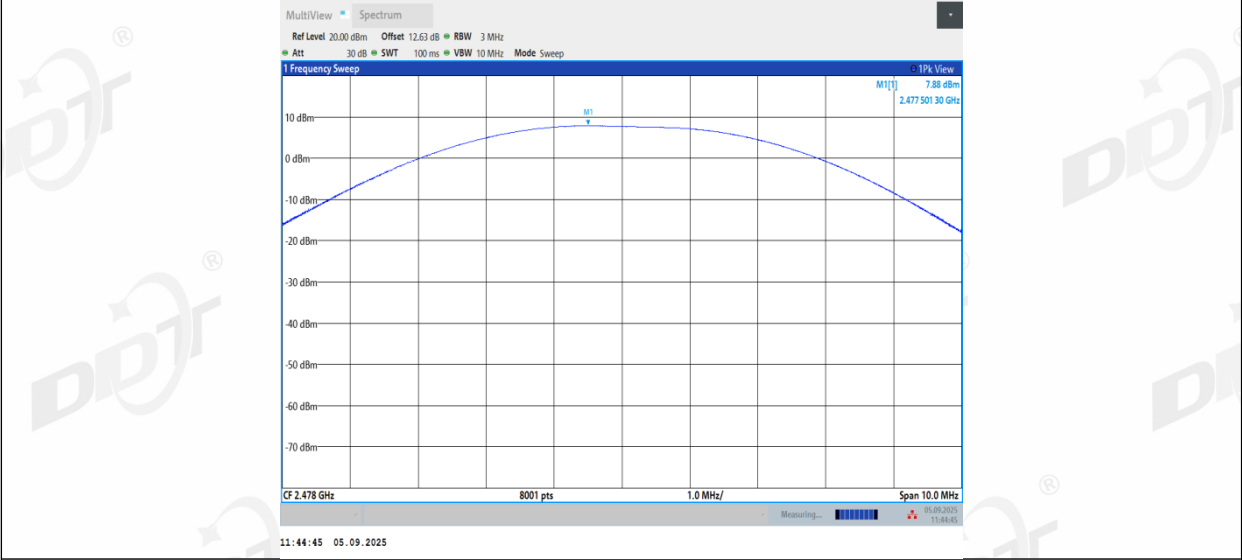
BLE_2M_Ant1_2440



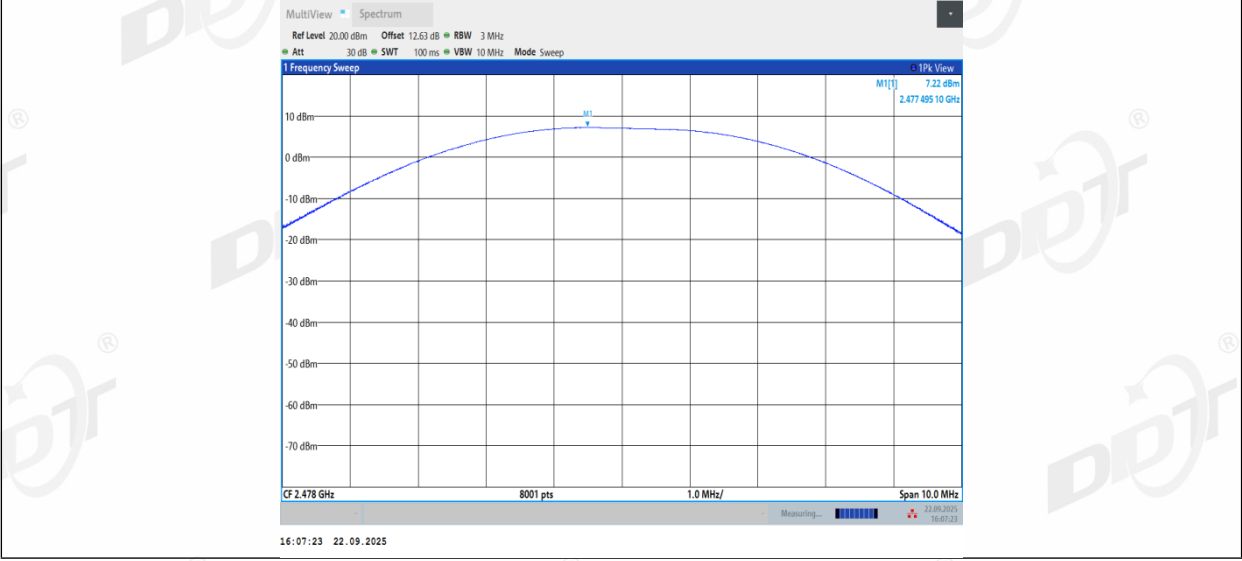
BLE_2M_Ant2_2440



BLE_2M_Ant1_2478

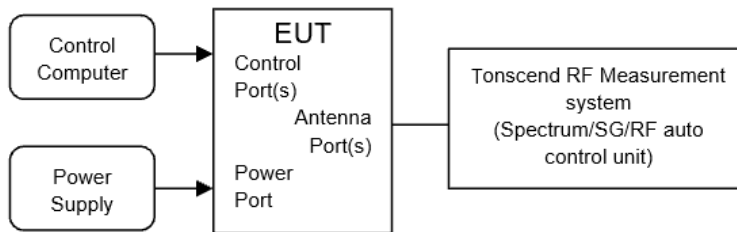


BLE_2M_Ant2_2478



7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

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.

7.3. Test procedure

- (1) The test according to ANSI C63.10-2020 clause 11.10.2.
 - (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
 - (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
 - (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

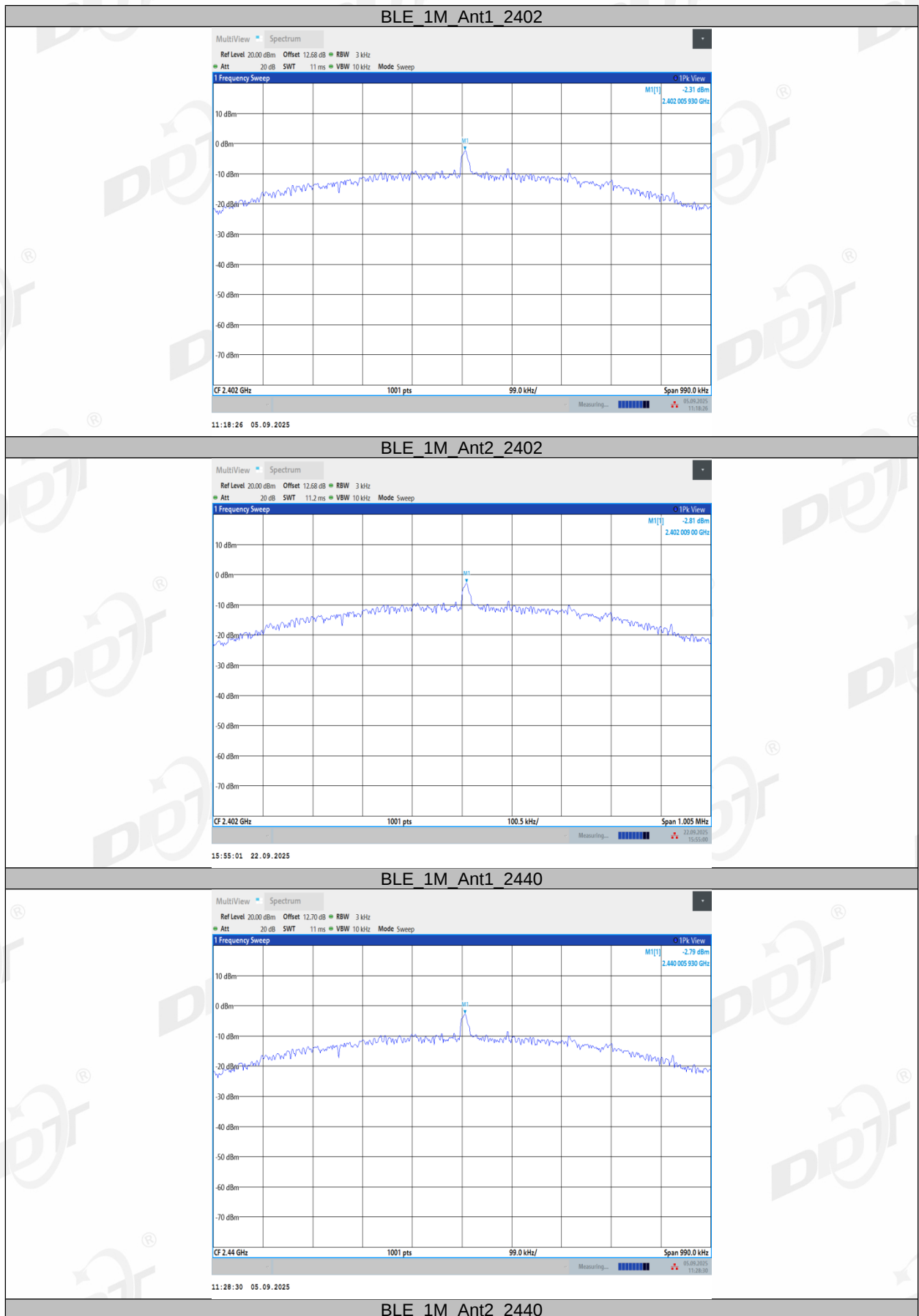
Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
 - (5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

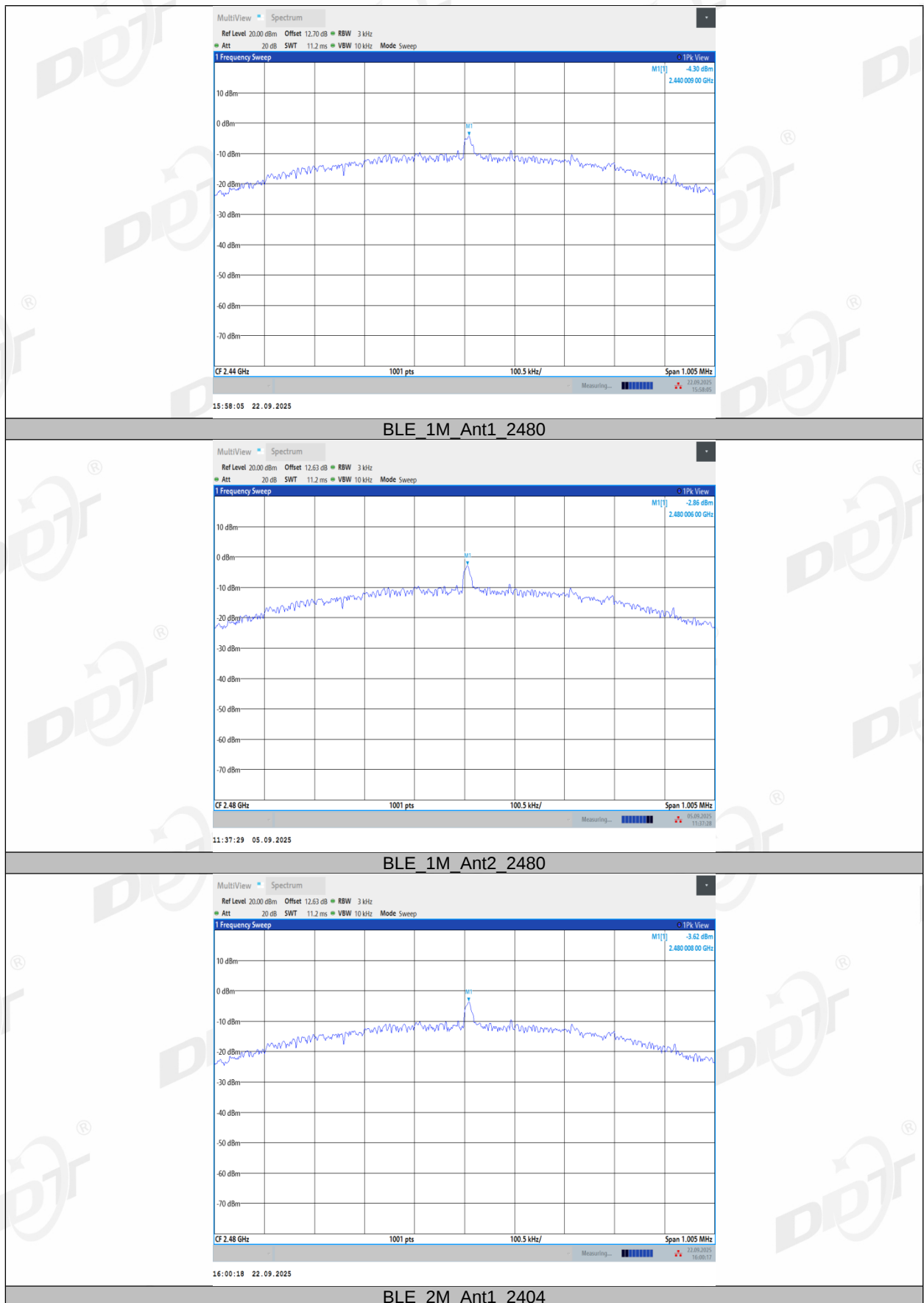
7.4. Test result

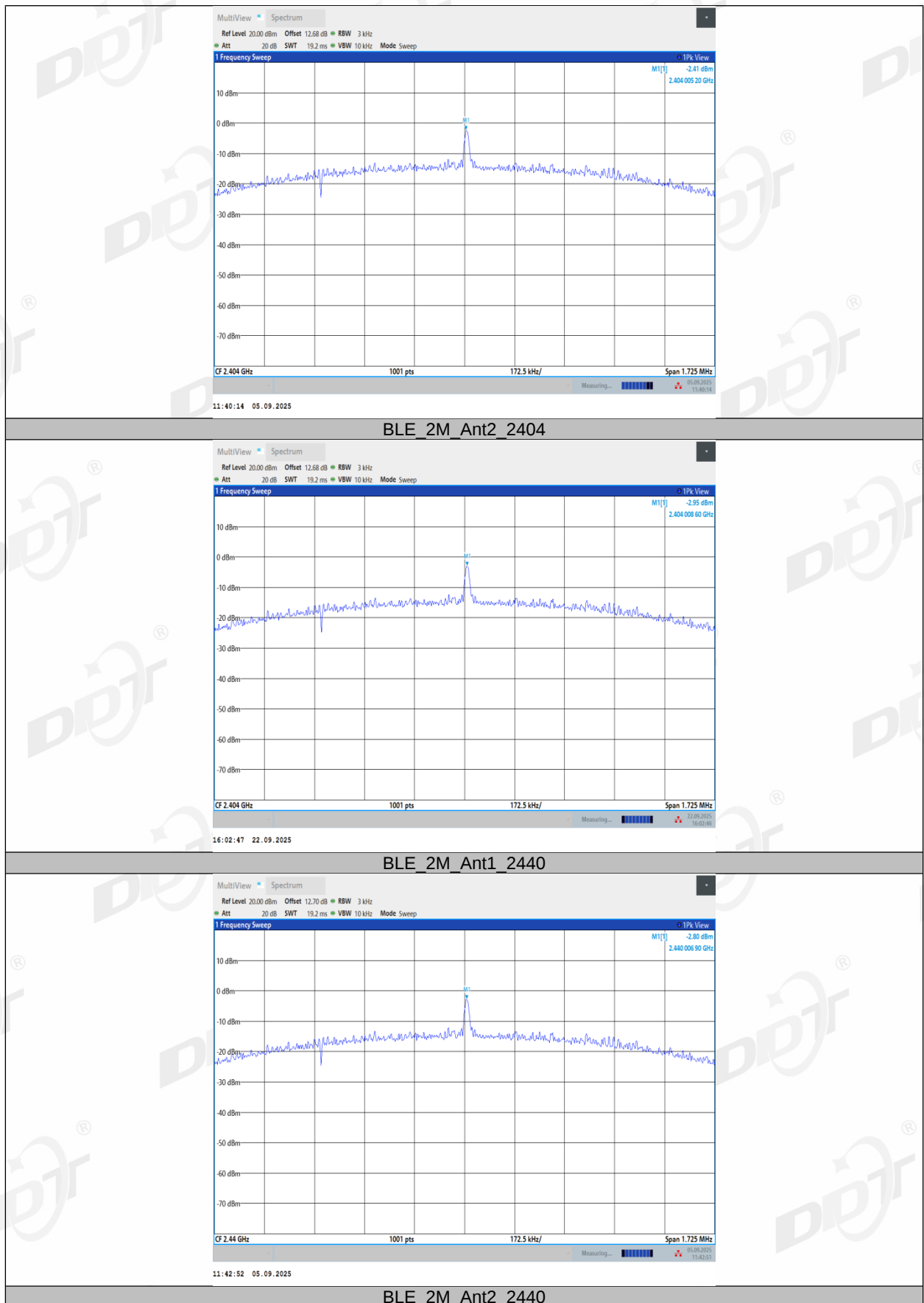
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5°C,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

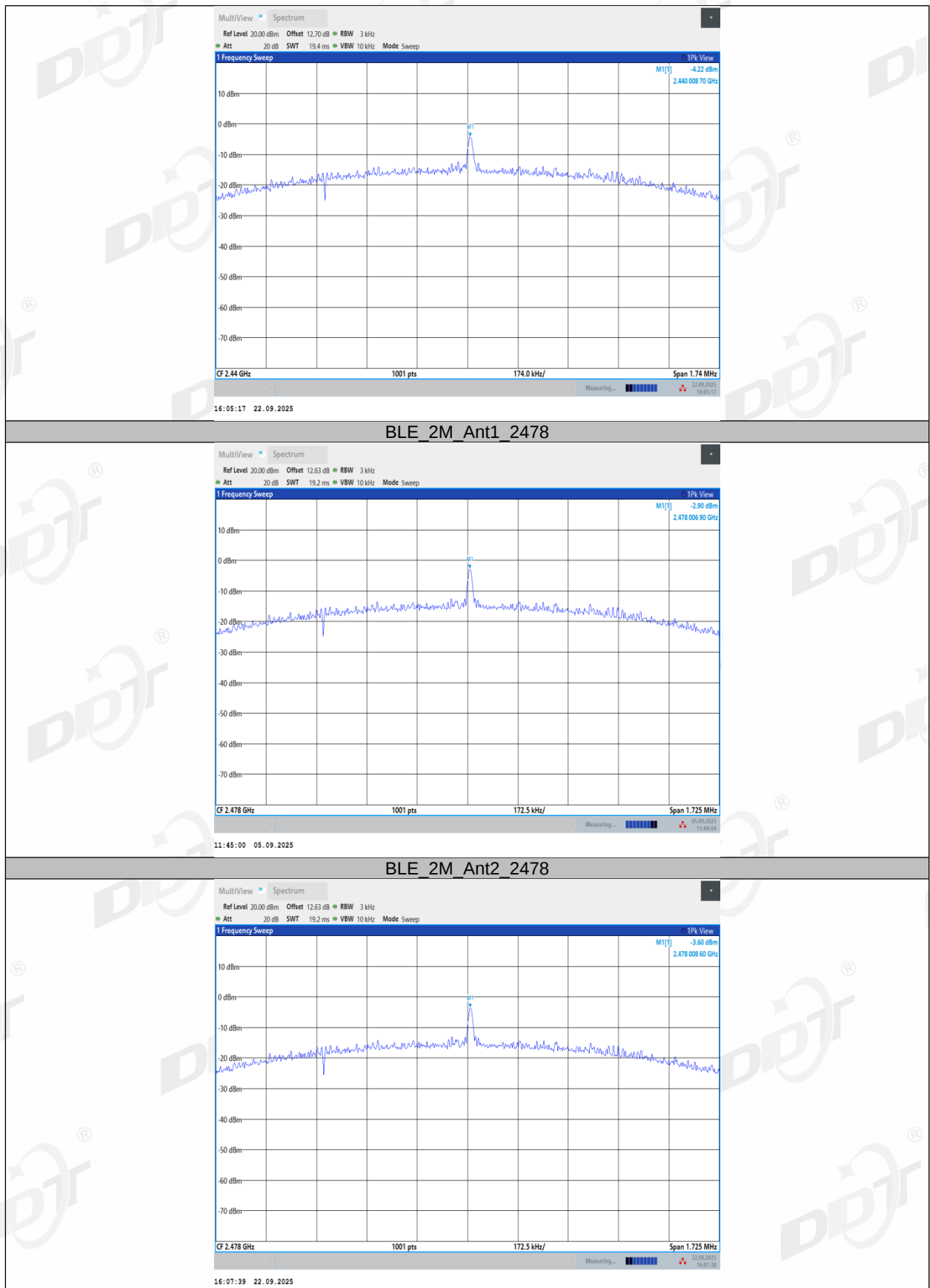
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.31	≤8.00	PASS
	Ant2	2402	-2.81	≤8.00	PASS
	Ant1	2440	-2.79	≤8.00	PASS
	Ant2	2440	-4.30	≤8.00	PASS
	Ant1	2480	-2.86	≤8.00	PASS
	Ant2	2480	-3.62	≤8.00	PASS
BLE_2M	Ant1	2404	-2.41	≤8.00	PASS
	Ant2	2404	-2.95	≤8.00	PASS
	Ant1	2440	-2.80	≤8.00	PASS
	Ant2	2440	-4.22	≤8.00	PASS
	Ant1	2478	-2.90	≤8.00	PASS
	Ant2	2478	-3.60	≤8.00	PASS

7.5. Test graphs



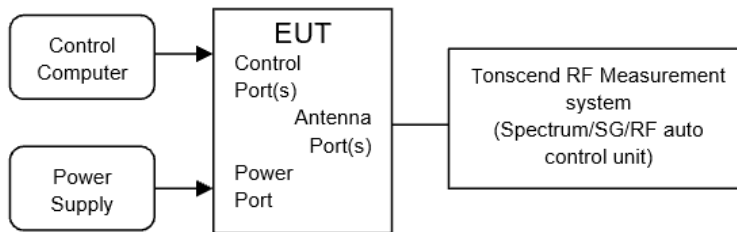






8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup



8.2. 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.

8.3. 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.

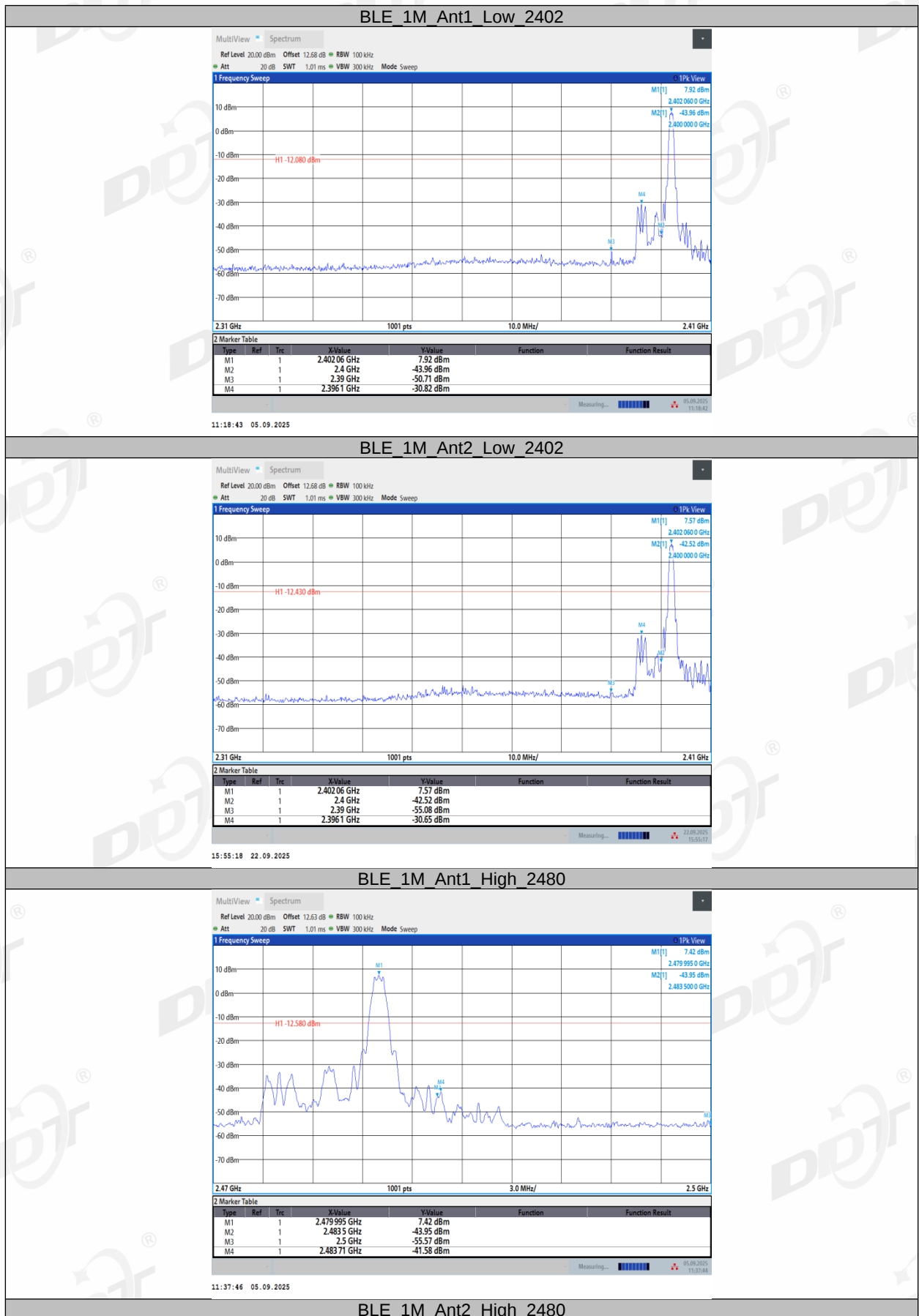
(4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

8.4. Test result

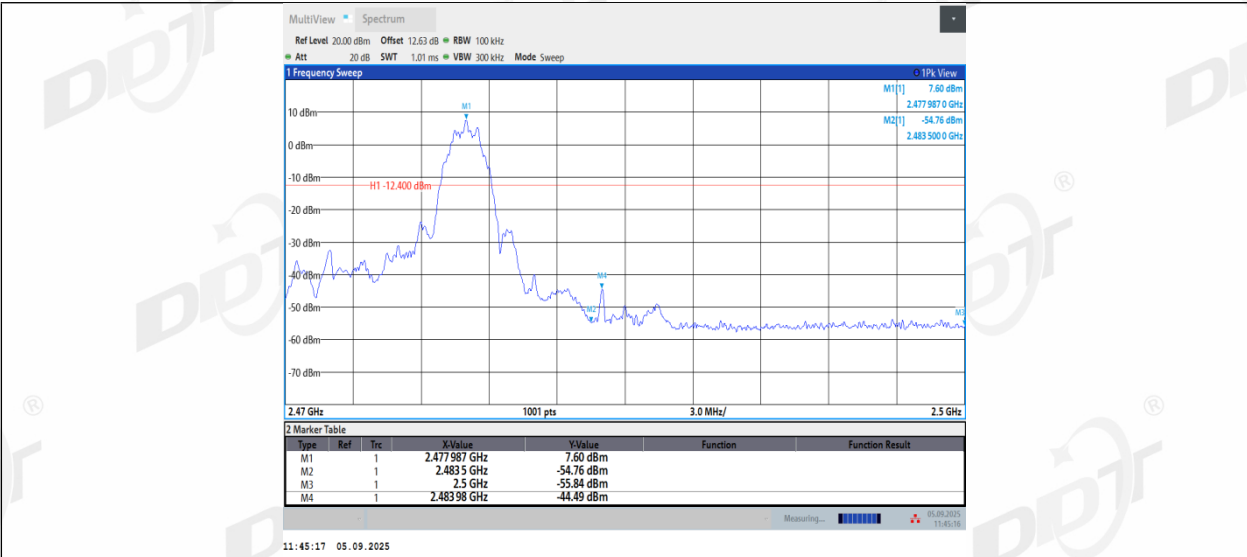
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5°C,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

Mode	Frequency [MHz]	Measured Range	Verdict
GFSK 1M	2402	2.310 GHz - 2.410 GHz	Pass
	2480	2.470 GHz - 2.500 GHz	Pass
GFSK 2M	2404	2.310 GHz - 2.410 GHz	Pass
	2478	2.470 GHz - 2.500 GHz	Pass

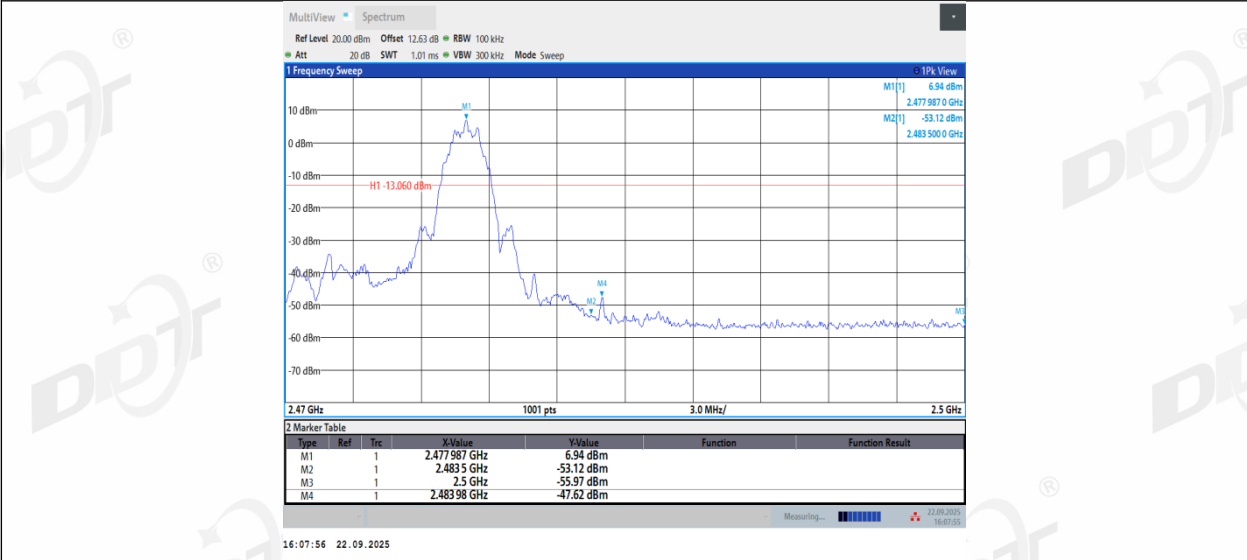
8.5. Test graphs





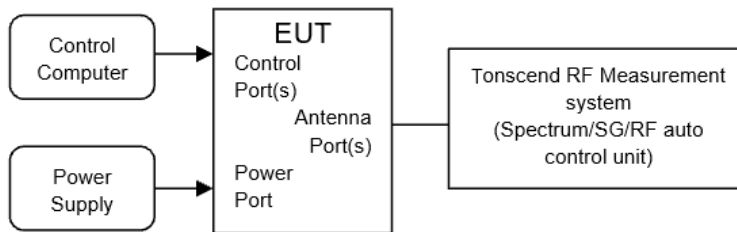


BLE_2M_Ant2_High_2478



9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup



9.2. 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.

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:

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

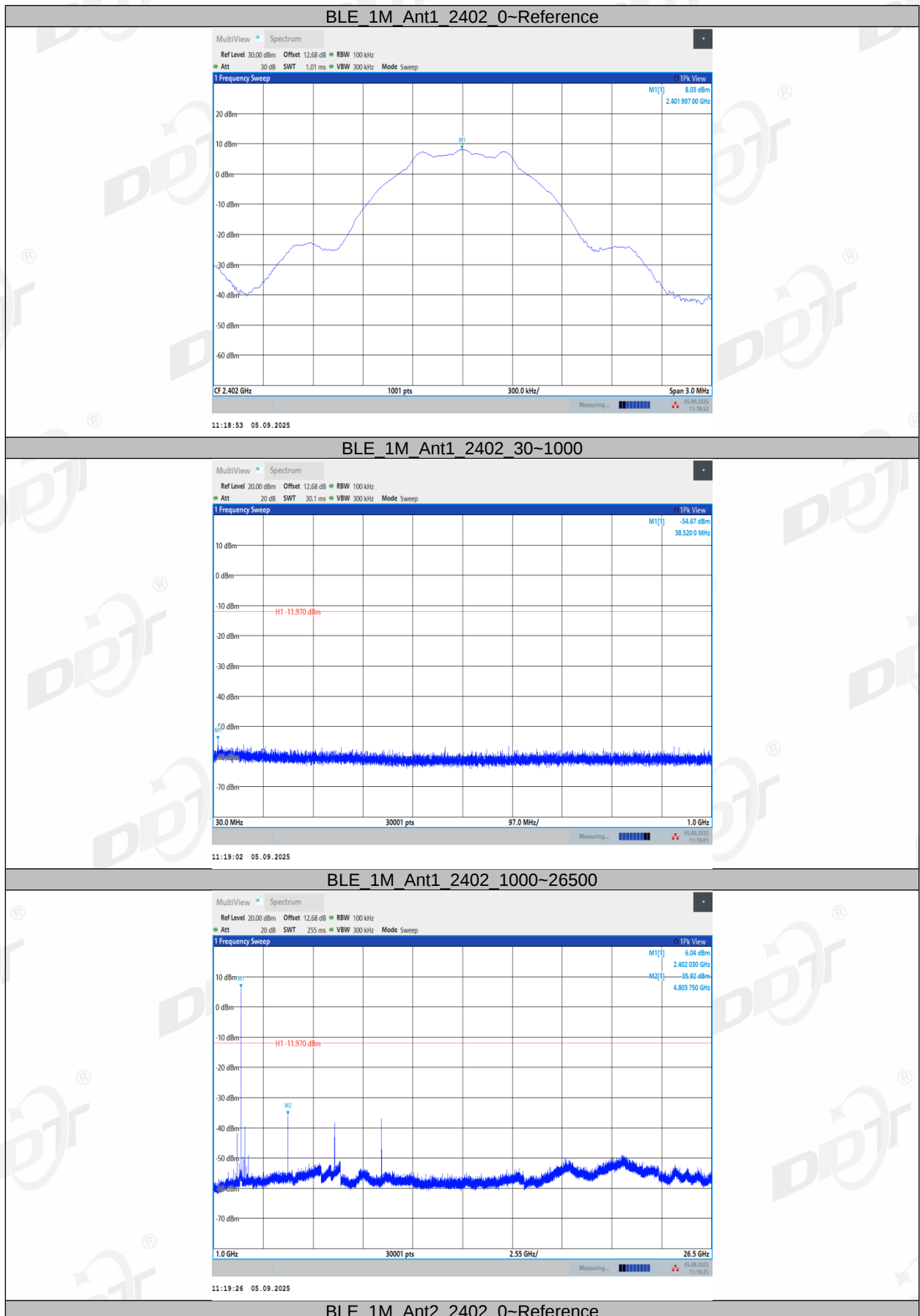
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

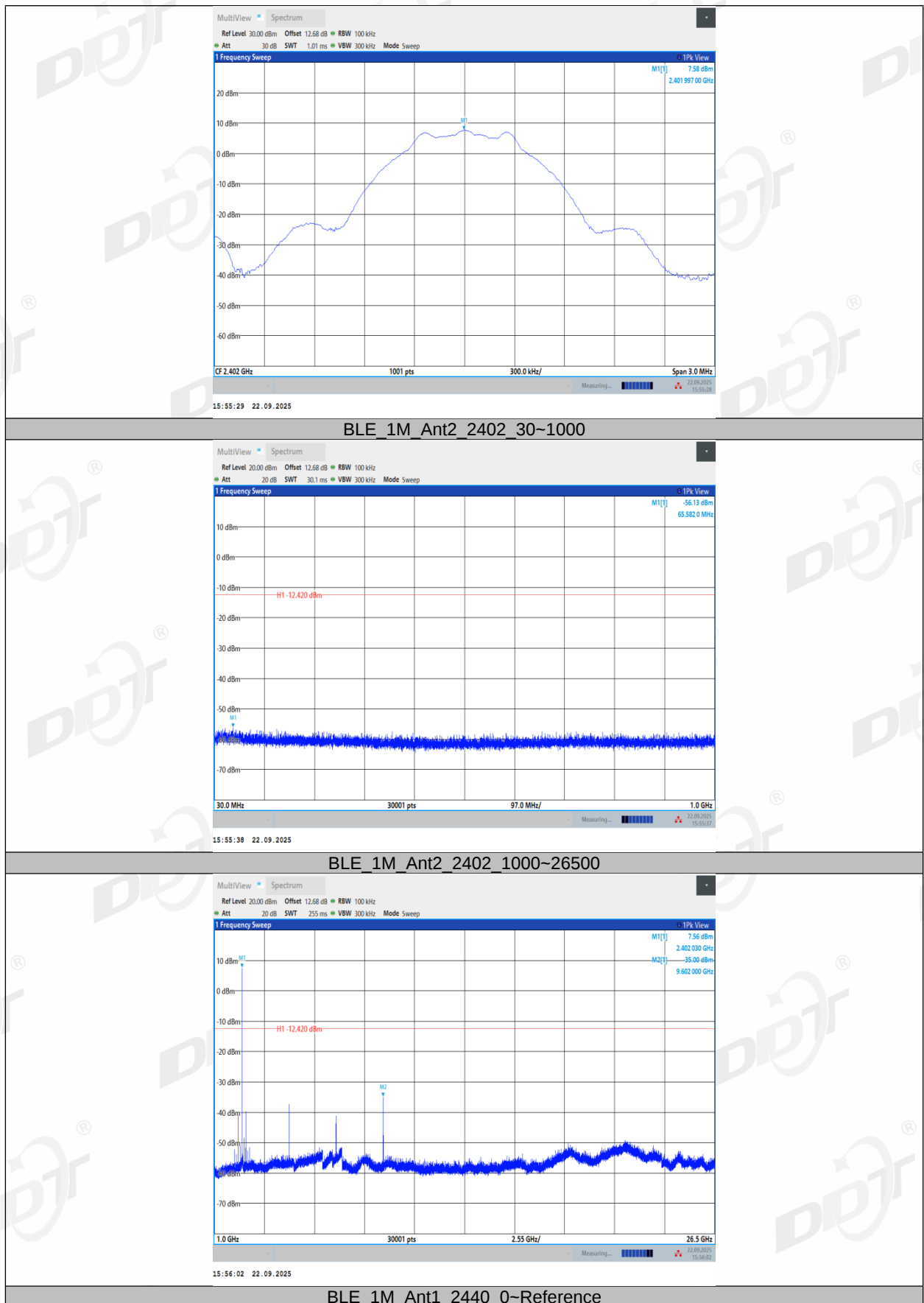
9.4. Test result

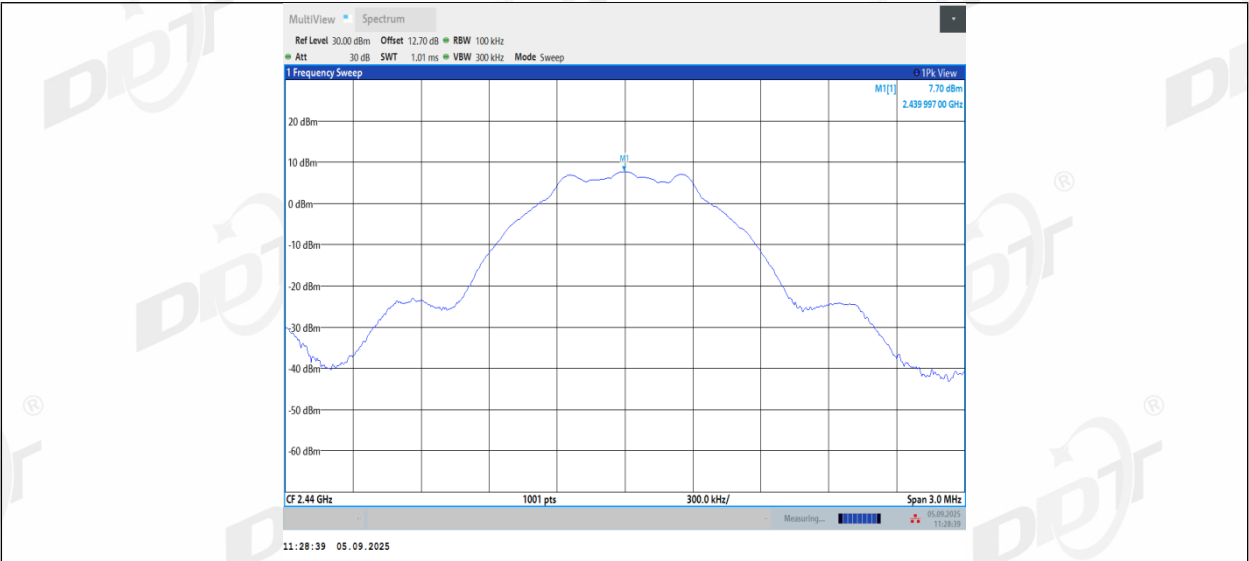
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.8-26.5°C,42.9-46.5%RH	Test Date:	2025.09.05-2025.09.22
Test Power Supply:	DC 3.3V	Sample Number:	S25073024-101

Mode	Frequency [MHz]	Verdict
GFSK 1M	2402	Pass
	2440	Pass
	2480	Pass
GFSK 2M	2404	Pass
	2440	Pass
	2478	Pass

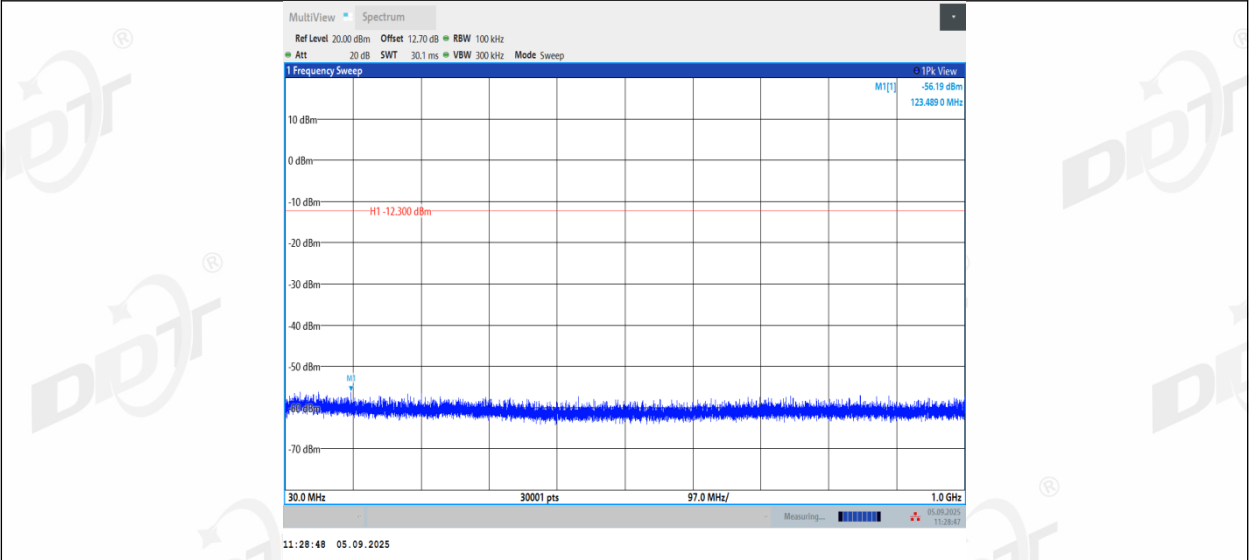
9.5. Test graphs



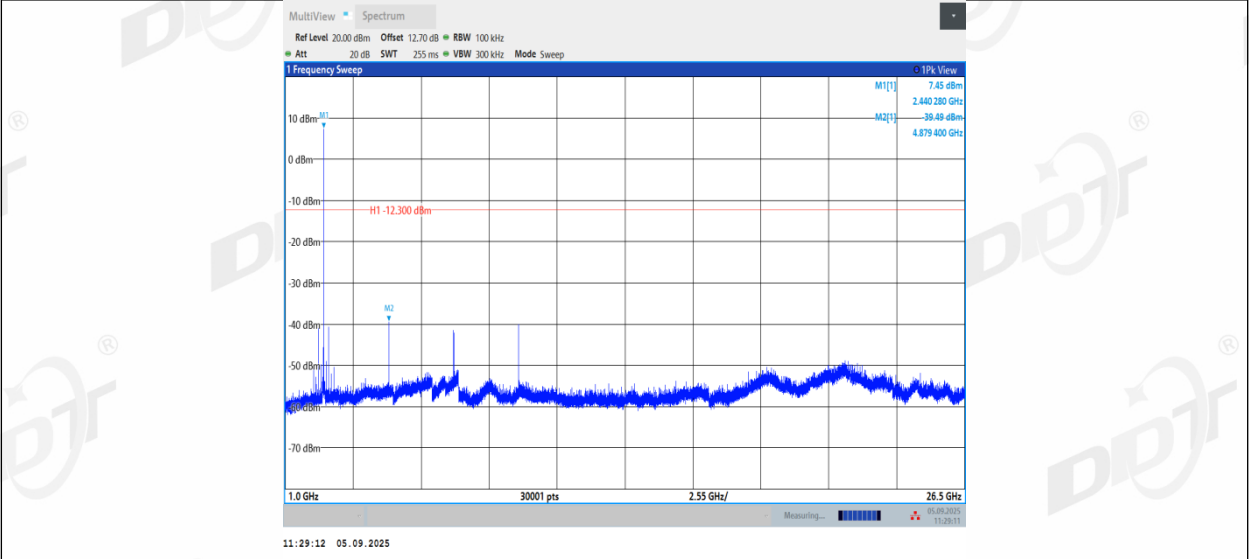




BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant2_2440_0-Reference