



FCC CERTIFICATION TEST REPORT

Applicant	:	PEAG, LLC dba JLab Audio
Address of Applicant	:	5927 LANDAU CT, Carlsbad, CA 92008, United States
Manufacturer	:	GuangDong Simpreal Intelligent Technology Co., Ltd
Address of Manufacturer	:	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China
Equipment under Test	:	True Wireless Earbuds
Model No.	:	FLEX
FCC ID	:	2AHYV-FLEX
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE24040912-1E01
Issue Date	:	2024/06/28
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

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test	9
2.4.	Decision of final test mode	9
2.5.	Deviations of test standard	10
2.6.	Test environment conditions	10
2.7.	Test laboratory	10
2.8.	Measurement uncertainty	11
3.	Equipment Used During Conductive Test	12
4.	20 dB Bandwidth	13
4.1.	Block diagram of test setup	13
4.2.	Limits.....	13
4.3.	Test procedure	13
4.4.	Test result	14
4.5.	Test graphs	15
5.	99% Bandwidth	21
5.1.	Block diagram of test setup	21
5.2.	Limits.....	21
5.3.	Test procedure	21
5.4.	Test result	22
5.5.	Test graphs	23
6.	Maximum Peak Output Power.....	29
6.1.	Block diagram of test setup	29
6.2.	Limits.....	29
6.3.	Test procedure	29
6.4.	Test result	30
6.5.	Test graphs	31
7.	Carrier Frequency Separation	37
7.1.	Block diagram of test setup	37
7.2.	Limits.....	37
7.3.	Test procedure	37
7.4.	Test result	38
7.5.	Test graphs	39
8.	Dwell Time	41

8.1.	Block diagram of test setup	41
8.2.	Limits	41
8.3.	Test procedure	41
8.4.	Test result	42
8.5.	Test graphs	43
9.	Number of Hopping Channel	55
9.1.	Block diagram of test setup	55
9.2.	Limits	55
9.3.	Test procedure	55
9.4.	Test result	56
9.5.	Test graphs	57
10.	Band Edge Compliance (Conducted Method)	59
10.1.	Block diagram of test setup	59
10.2.	Limit	59
10.3.	Test procedure	59
10.4.	Test result	60
10.5.	Test graphs	61
11.	RF Conducted Spurious Emissions	69
11.1.	Block diagram of test setup	69
11.2.	Limits	69
11.3.	Test procedure	69
11.4.	Test result	70
11.5.	Test graphs	71
12.	Duty cycle	89
12.1.	Block diagram of test setup	89
12.2.	Limit	89
12.3.	Test procedure	89
12.4.	Test result	90
12.5.	Test graphs	91
13.	Antenna Requirements	97
13.1.	Limit	97
13.2.	Result	97
14.	Radiated Emission	98
14.1.	Test equipment	98
14.2.	Block diagram of test setup	99
14.3.	Limits	100
14.4.	Assistant equipment used for test	101
14.5.	Test procedure	101

14.6.	Test result	103
14.7.	Test data	104
15.	Band Edge Compliance.....	120
15.1.	Test equipment.....	120
15.2.	Block diagram of test setup	121
15.3.	Limits.....	121
15.4.	Assistant equipment used for test	121
15.5.	Test procedure	121
15.6.	Test result	121
15.7.	Test data	122
16.	Power Line Conducted Emissions.....	146
16.1.	Test equipment.....	146
16.2.	Block diagram of test setup	146
16.3.	Limits.....	146
16.4.	Assistant equipment used for test	146
16.5.	Test procedure	147
16.6.	Test result	147
16.7.	Test data	148
17.	Test Setup Photograph	150
18.	Photos of the EUT	154

Test Report Declare

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Manufacturer	:	GuangDong Simpreal Intelligent Technology Co., Ltd
Address of Manufacturer	:	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10:2013

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-RE24040912-1E01		
Date of Receipt:	2024/05/15	Date of Test:	2024/05/15~2024/06/28

Prepared By:

Ziqin Chen
Ziqin Chen/Engineer

Approved By:


Damon Hu
Damon Hu/EMC Manager

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

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/06/28	

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	Maximum Peak Output Power	FCC Part 15: 15.247(b)(1)	/	Pass
2	20 dB Bandwidth	FCC Part 15: 15.247(a)(1)	/	Pass
3	99% Bandwidth	ANSI C63.10:2013	/	Pass
4	Carrier Frequency Separation	FCC Part 15: 15.247(a)(1)	/	Pass
5	Number of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii)	/	Pass
6	Dwell Time	FCC Part 15: 15.247(a)(1)(iii)	/	Pass
7	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d)	/	Pass
8	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
9	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
10	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
11	Antenna Requirement	FCC Part 15: 15.203	/	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	: True Wireless Earbuds
Model Number	: FLEX
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V by an external adapter or DC 3.7V built-in lithium battery
Hardware Version	: V02
Software Version	: V023

Note: This EUT support Bluetooth BR/EDR/LE, this report only for Bluetooth BR/EDR.

Radio Specification	: Bluetooth BR/EDR
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK

Antenna information	
Antenna Type	: FPC
Max Antenna Gain(dBi)	: L:-1.36 R:-1.22

Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474

19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

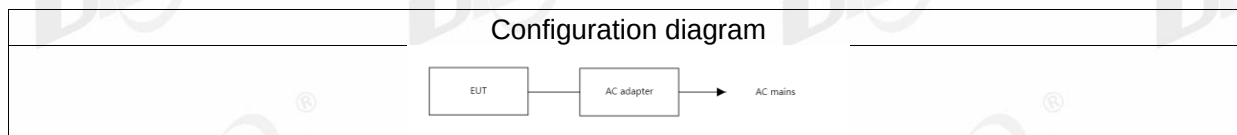
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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 1.0.2.2.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: 0.5 dB (According to the manufacturer's claims)

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	10	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	10	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	10	CH0 to CH78	2402 to 2480
	10	CH0	2402

GFSK hopping off Tx mode	10	CH39	2441
	10	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	10	CH0	2402
	10	CH39	2441
	10	CH78	2480
8DPSK hopping off Tx mode	10	CH0	2402
	10	CH39	2441
	10	CH78	2480
Worst-case data rates were: GFSK mode: DH5, $\pi/4$ -DQPSK mode: 2DH5, 8DPSK mode: 3DH5			

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 to 106 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-20155, G-20118

2.8. Measurement uncertainty

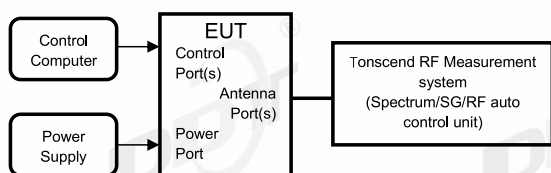
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05
RF Control Unit	Tonsend	JS0806-2	21I8060485	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.2.
- (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 the 20 dB bandwidth measurement:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 2 times and 5 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Measure and record the results in the report.

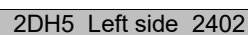
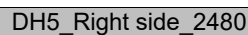
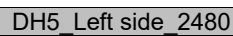
4.4. Test result

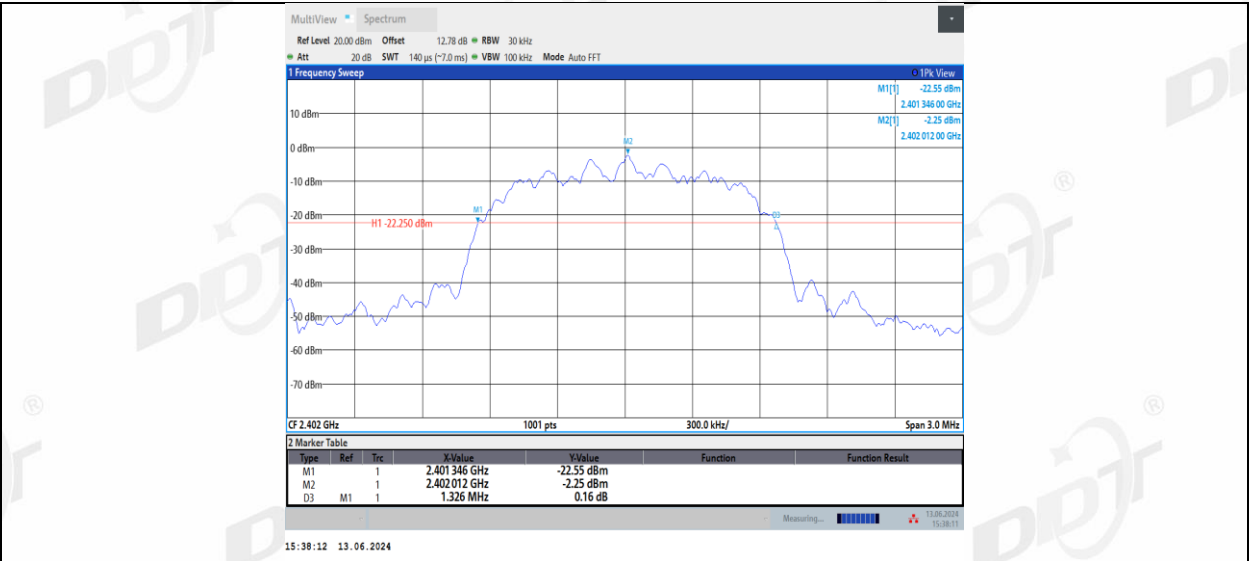
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.9℃,43.2%RH	Test Date:	2024.06.13
Test Power Supply:	DC 3.3V	Sample Number:	NA

Test Mode	Antenna	Frequency [MHz]	20dB EBW[MHz]
DH5	Left side	2402	0.95
	Right side	2402	0.95
	Left side	2441	0.95
	Right side	2441	0.96
	Left side	2480	0.95
	Right side	2480	0.95
2DH5	Left side	2402	1.33
	Right side	2402	1.32
	Left side	2441	1.33
	Right side	2441	1.33
	Left side	2480	1.32
	Right side	2480	1.33
3DH5	Left side	2402	1.29
	Right side	2402	1.31
	Left side	2441	1.31
	Right side	2441	1.31
	Left side	2480	1.32
	Right side	2480	1.31

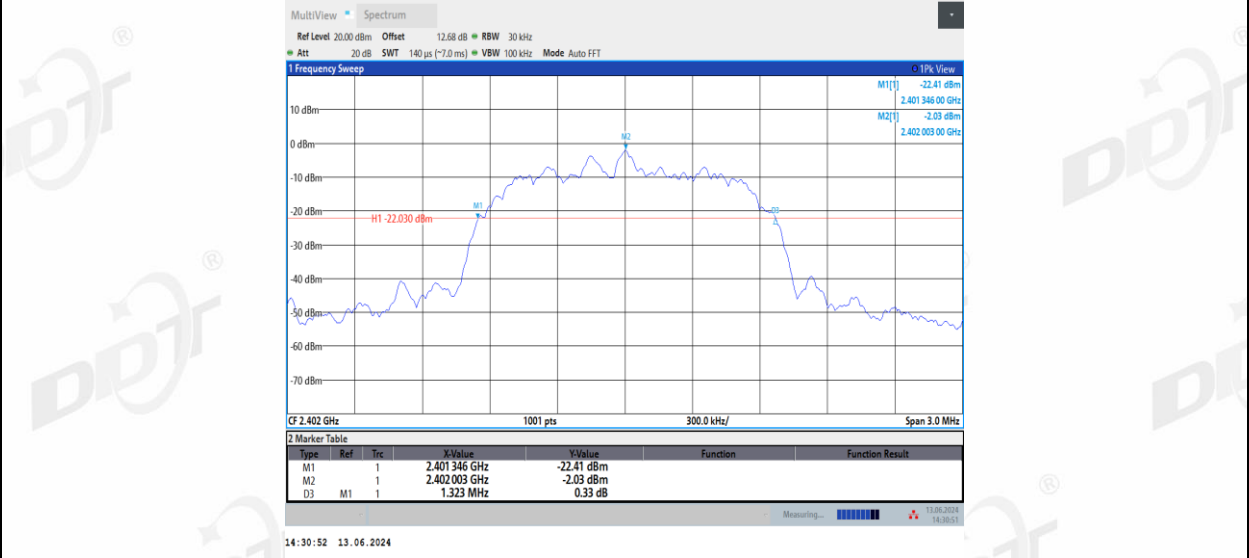
4.5. Test graphs







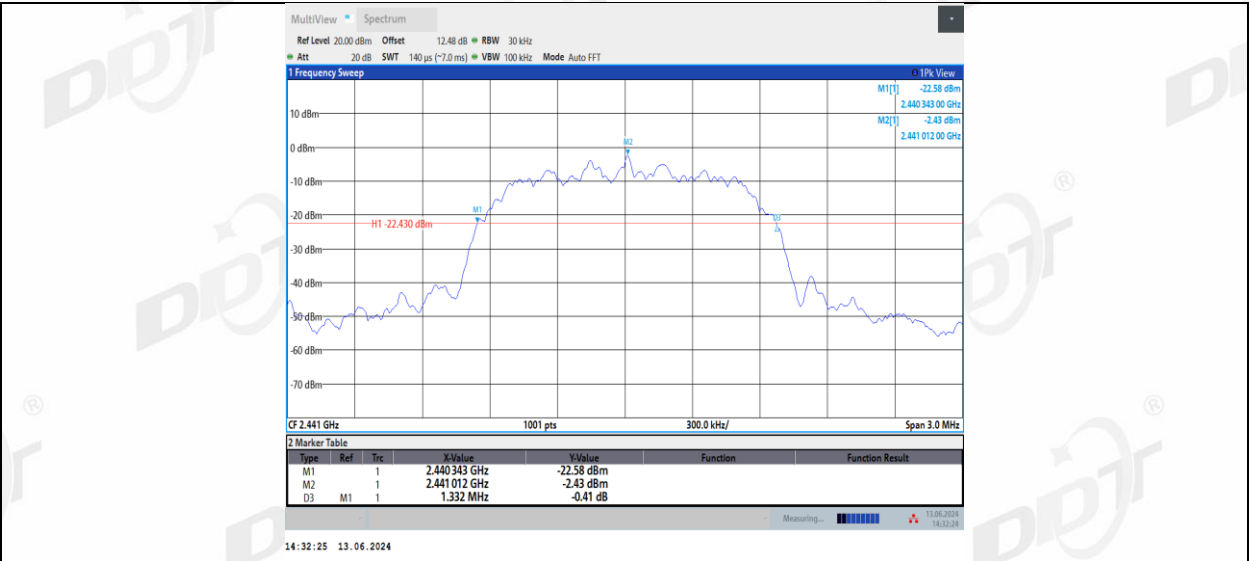
2DH5_Right side_2402



2DH5_Left side_2441



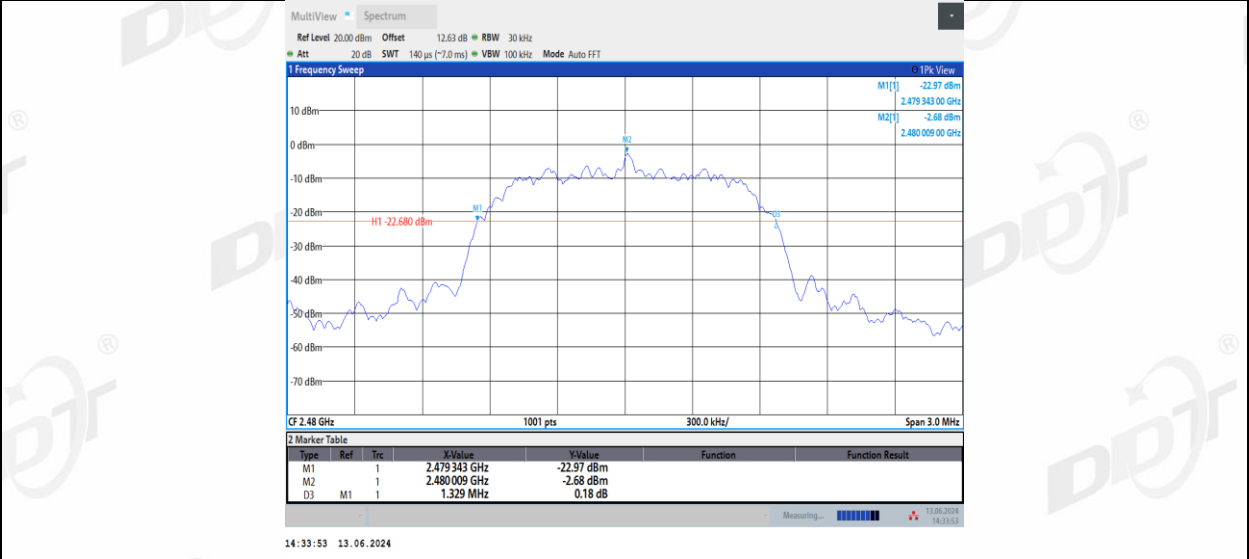
2DH5_Right side_2441



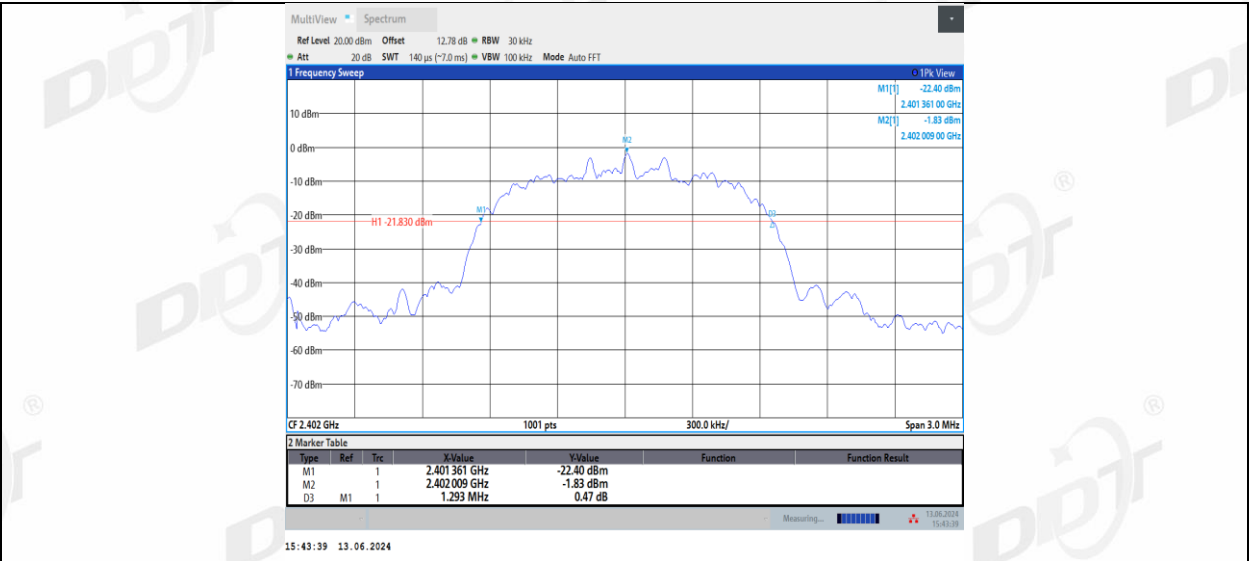
2DH5_Left side_2480



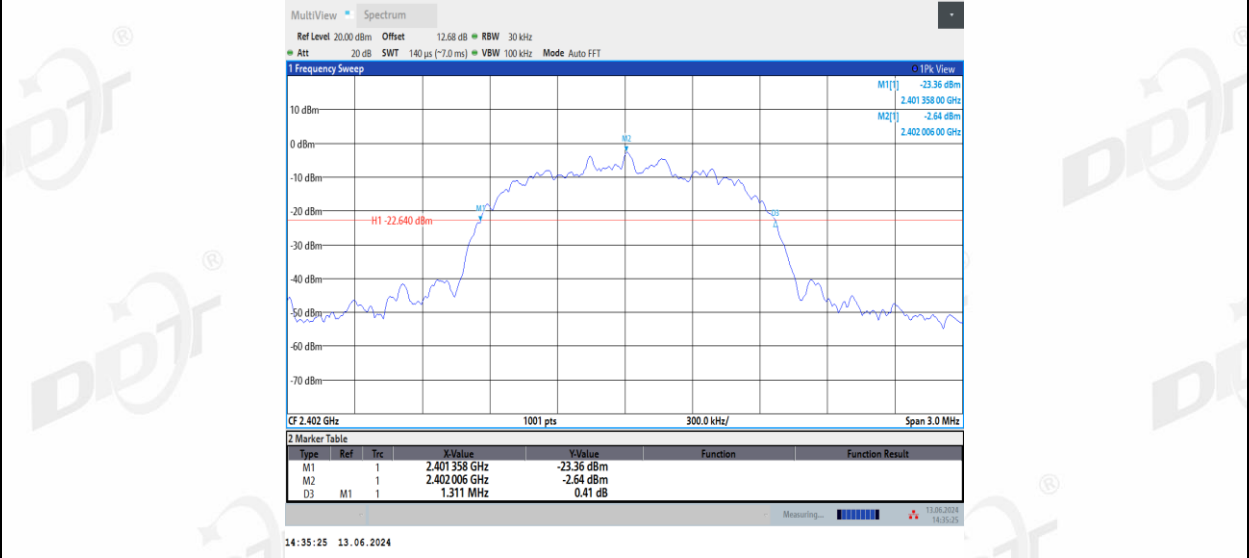
2DH5_Right side_2480



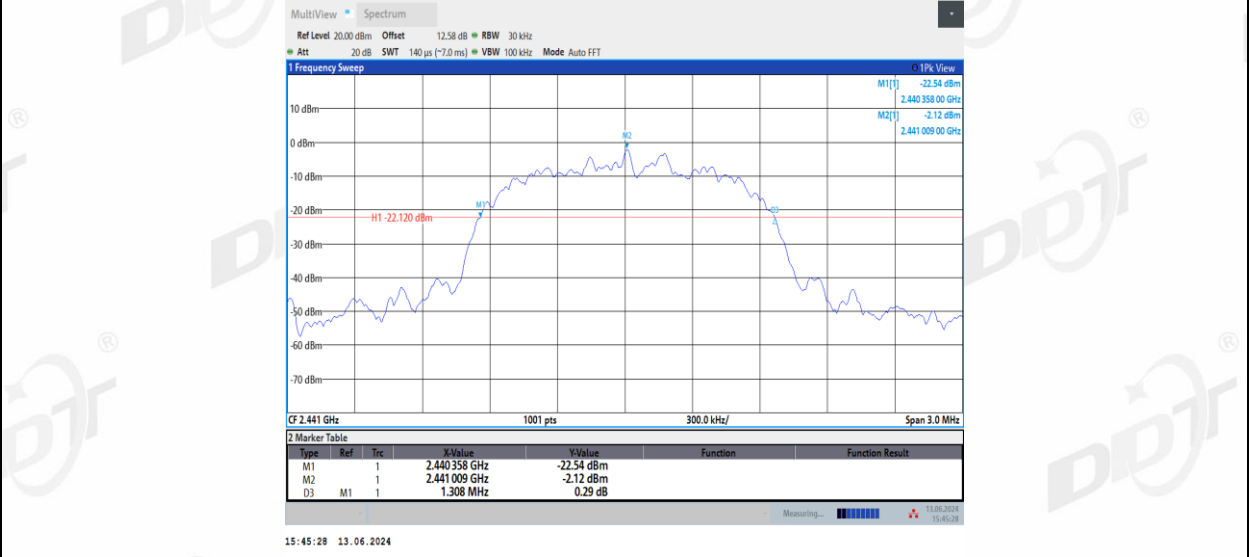
3DH5_Left side_2402



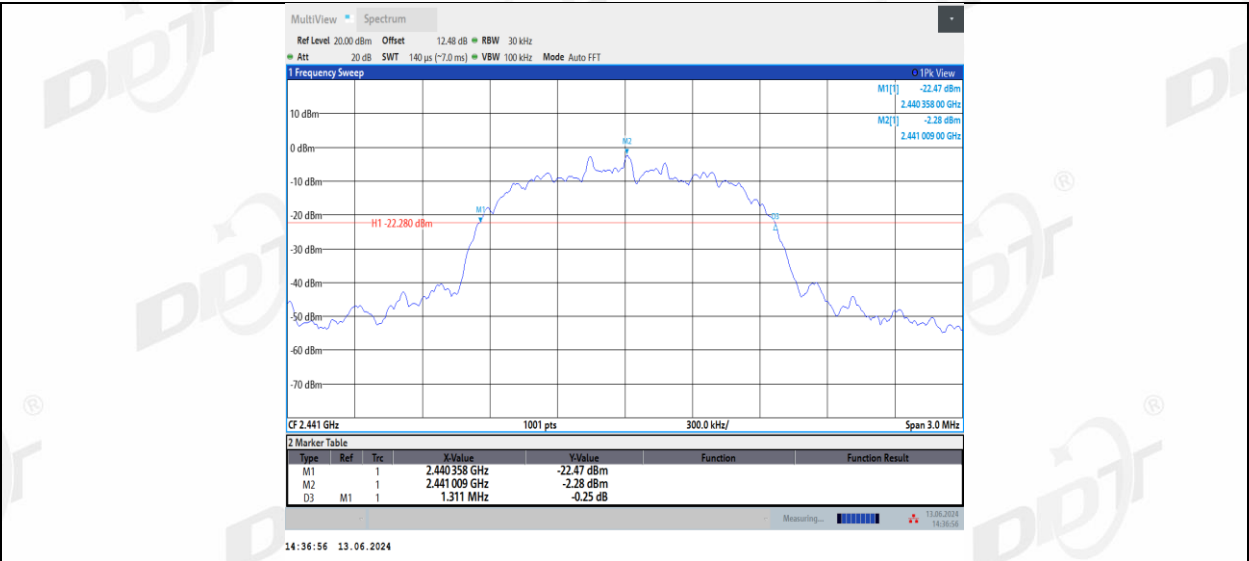
3DH5_Right side_2402



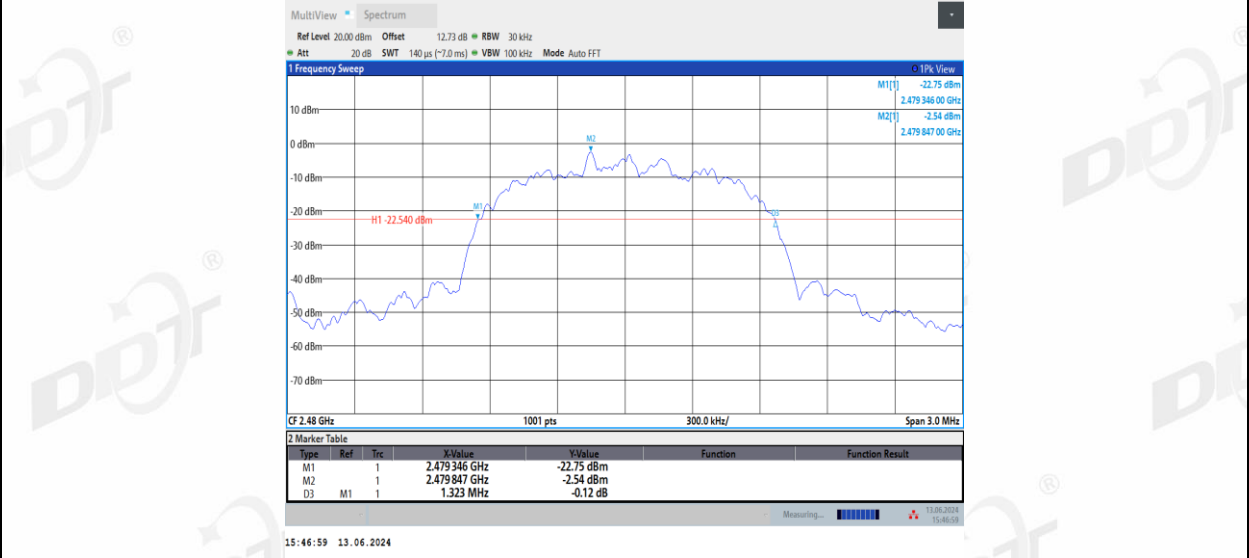
3DH5_Left side_2441



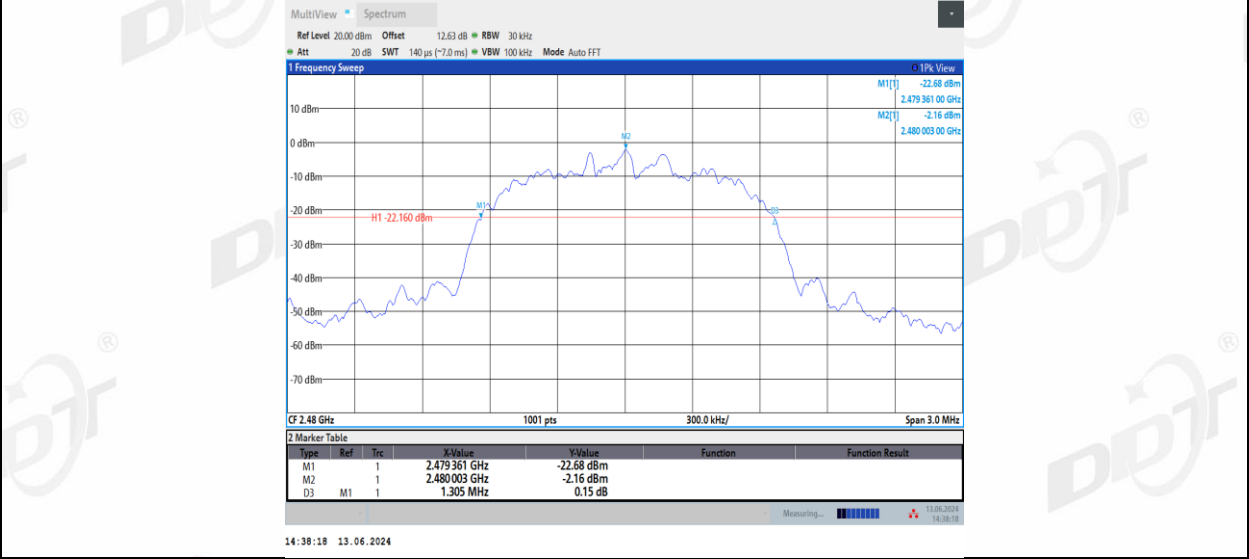
3DH5_Right side_2441



3DH5_Left side_2480

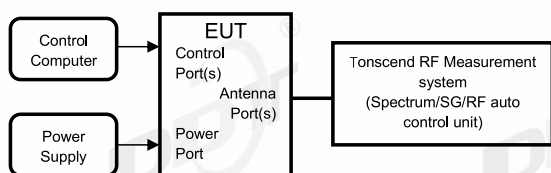


3DH5_Right side_2480



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 C63.10-2013 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 measurement:

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) Measure and record the results in the report.

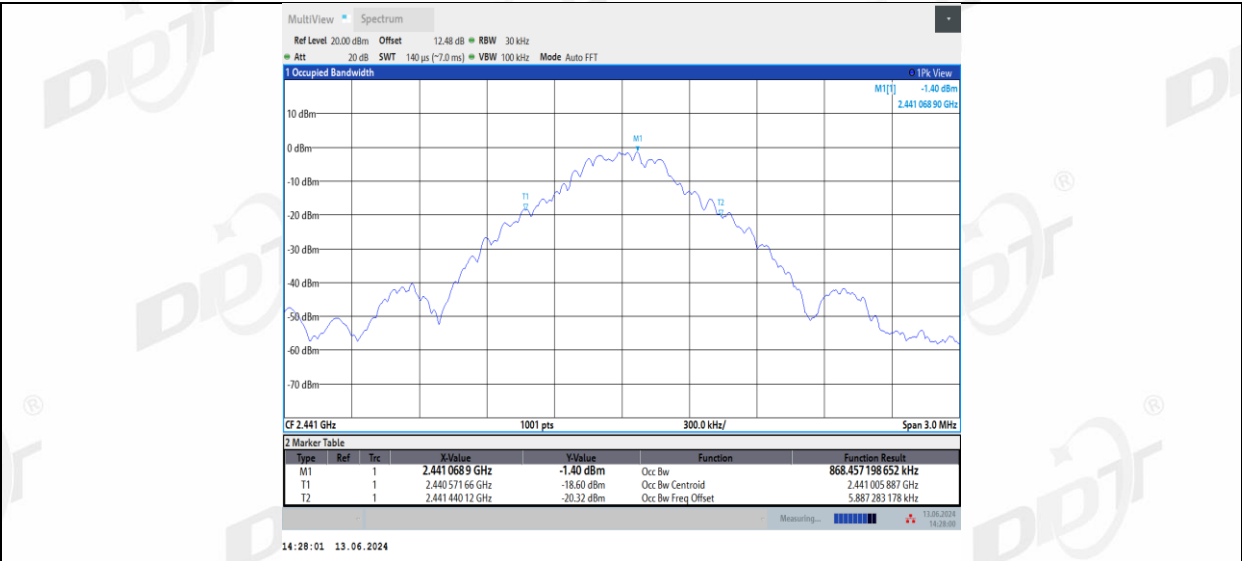
5.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.9℃,43.2%RH	Test Date:	2024.06.13
Test Power Supply:	DC 3.3V	Sample Number:	NA

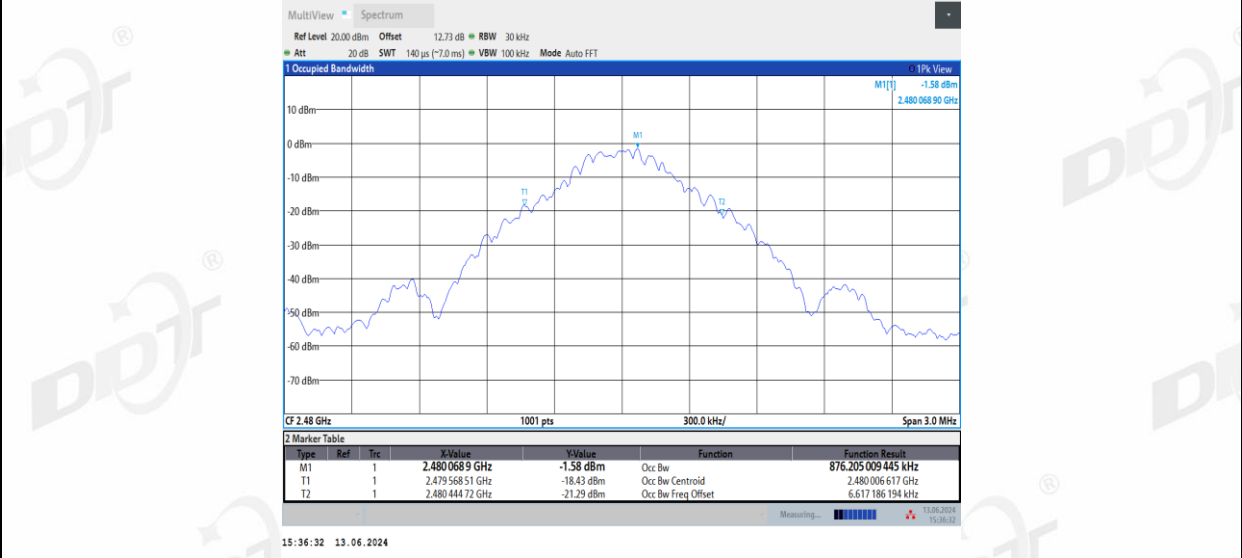
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Left side	2402	0.87	2401.5694	2402.4396
	Right side	2402	0.877	2401.5666	2402.4435
	Left side	2441	0.876	2440.5696	2441.4455
	Right side	2441	0.868	2440.5717	2441.4401
	Left side	2480	0.876	2479.5685	2480.4447
	Right side	2480	0.878	2479.5681	2480.4458
2DH5	Left side	2402	1.193	2401.4127	2402.6059
	Right side	2402	1.188	2401.4142	2402.6023
	Left side	2441	1.186	2440.4160	2441.6024
	Right side	2441	1.189	2440.4149	2441.6039
	Left side	2480	1.185	2479.4173	2480.6023
	Right side	2480	1.189	2479.4145	2480.6035
3DH5	Left side	2402	1.181	2401.4167	2402.5975
	Right side	2402	1.185	2401.4149	2402.5996
	Left side	2441	1.184	2440.4176	2441.6019
	Right side	2441	1.194	2440.4117	2441.6057
	Left side	2480	1.182	2479.4176	2480.5995
	Right side	2480	1.193	2479.4110	2480.6036

5.5.Test graphs

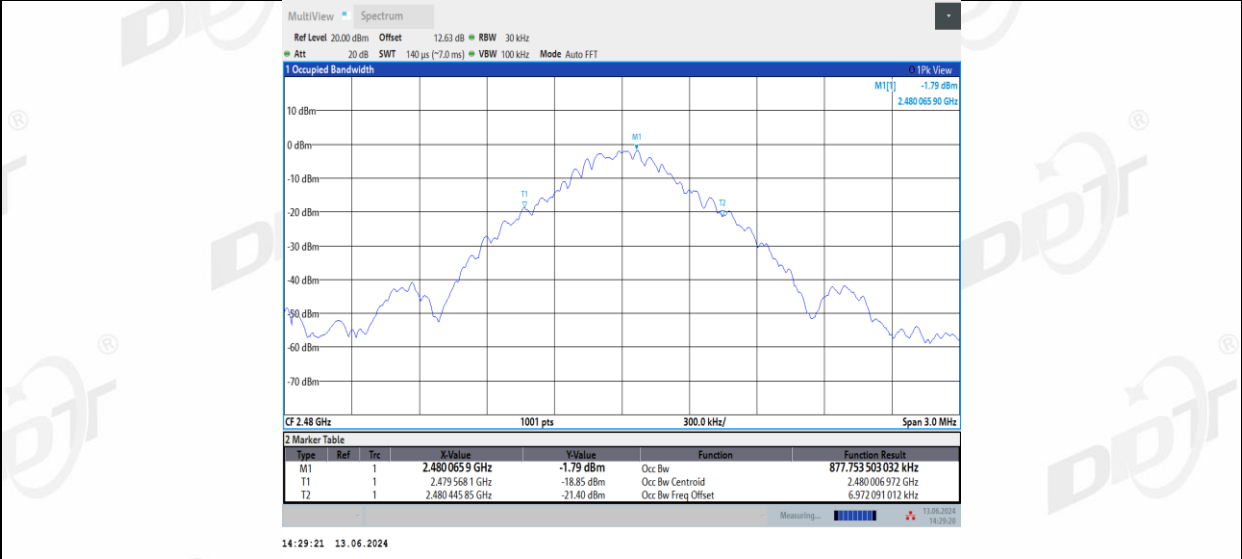




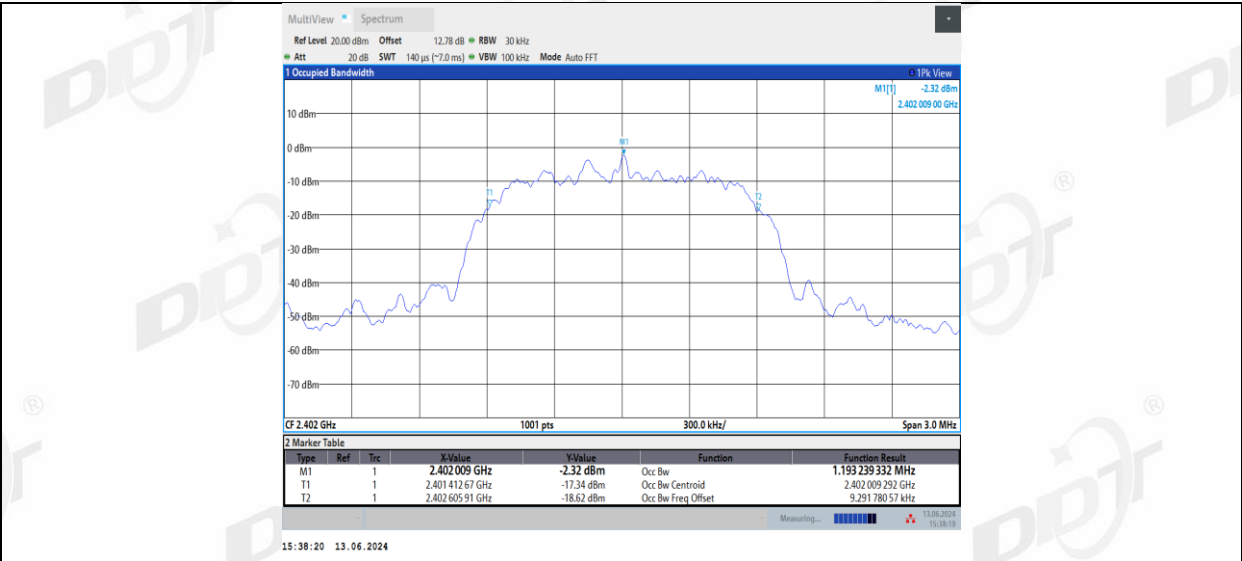
DH5_Left side_2480



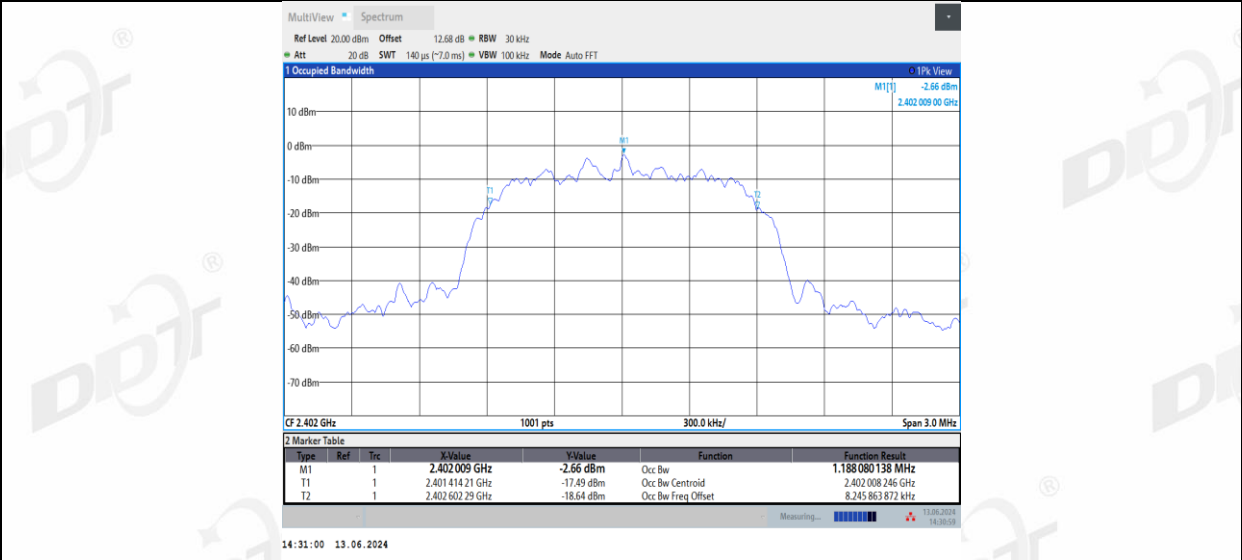
DH5_Right side_2480



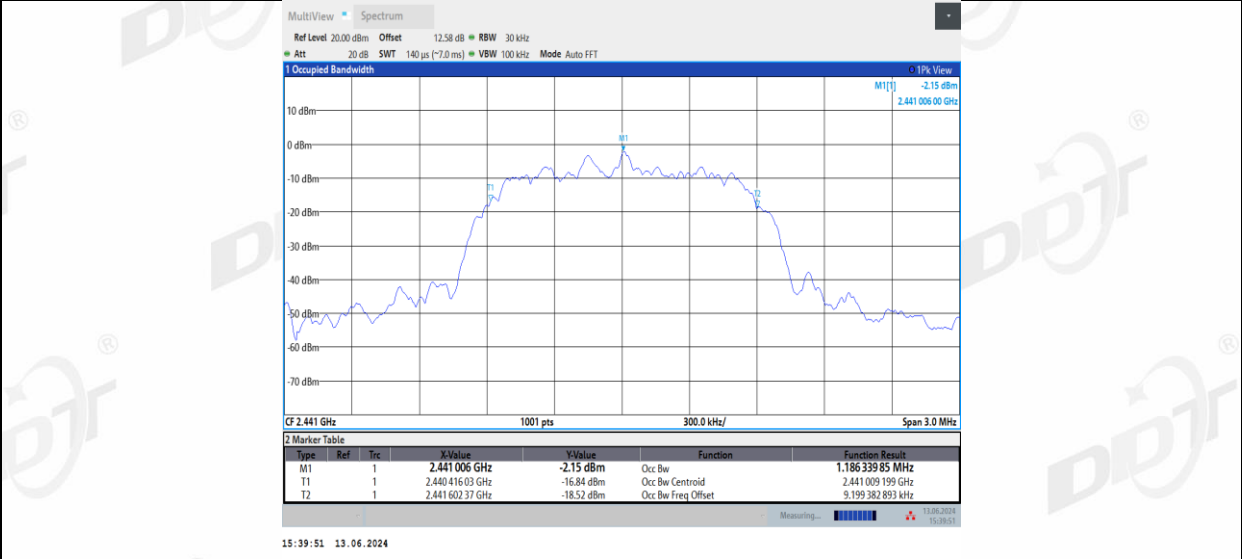
2DH5_Left side_2402



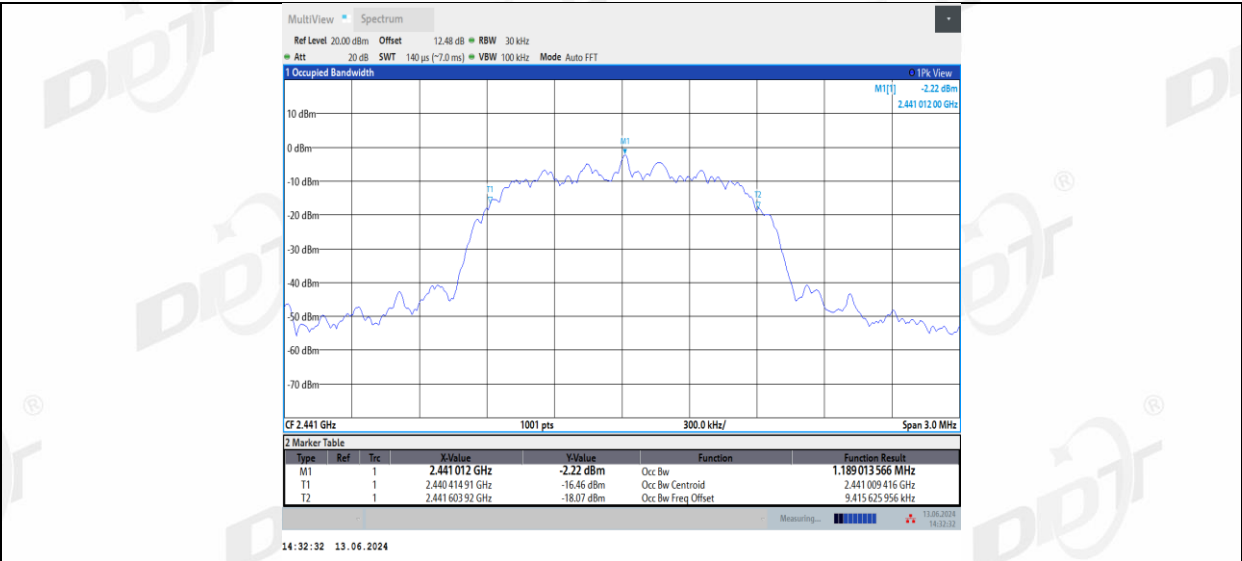
2DH5_Right side_2402



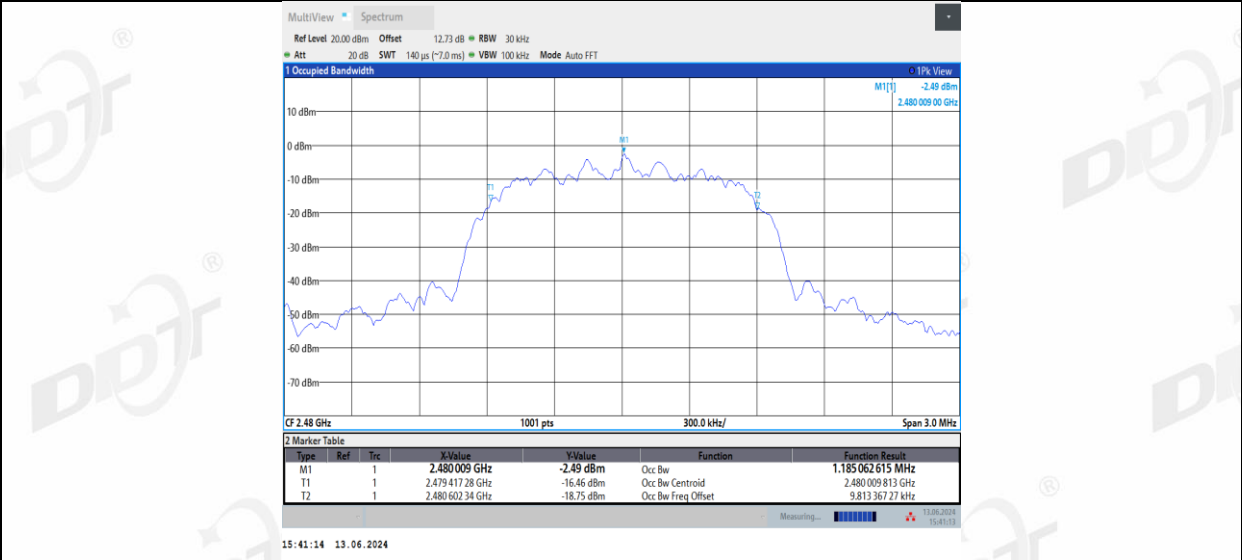
2DH5_Left side_2441



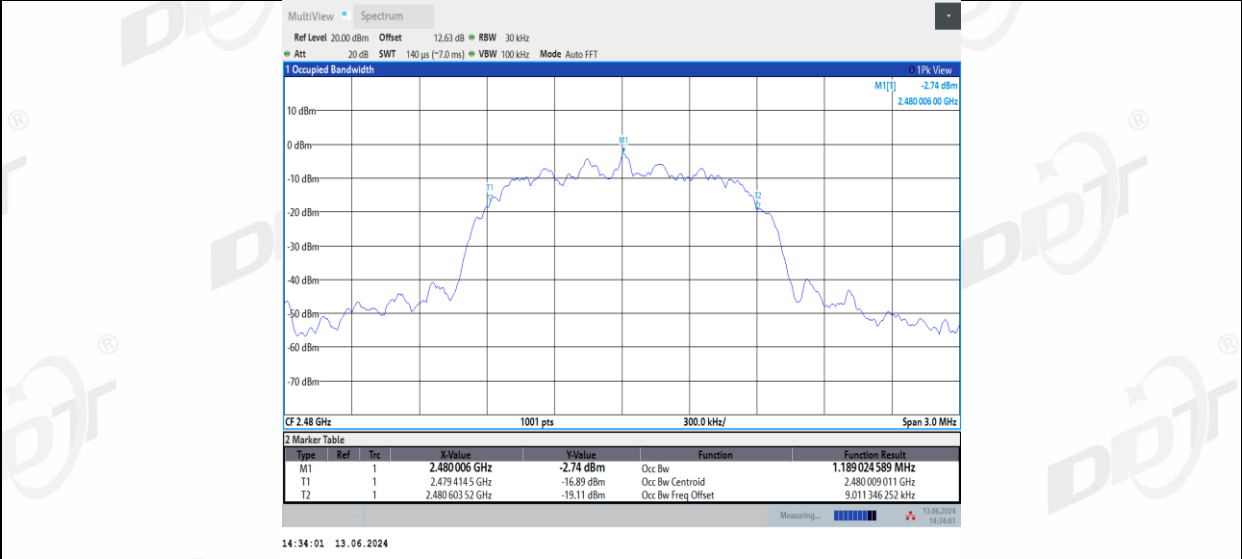
2DH5_Right side_2441



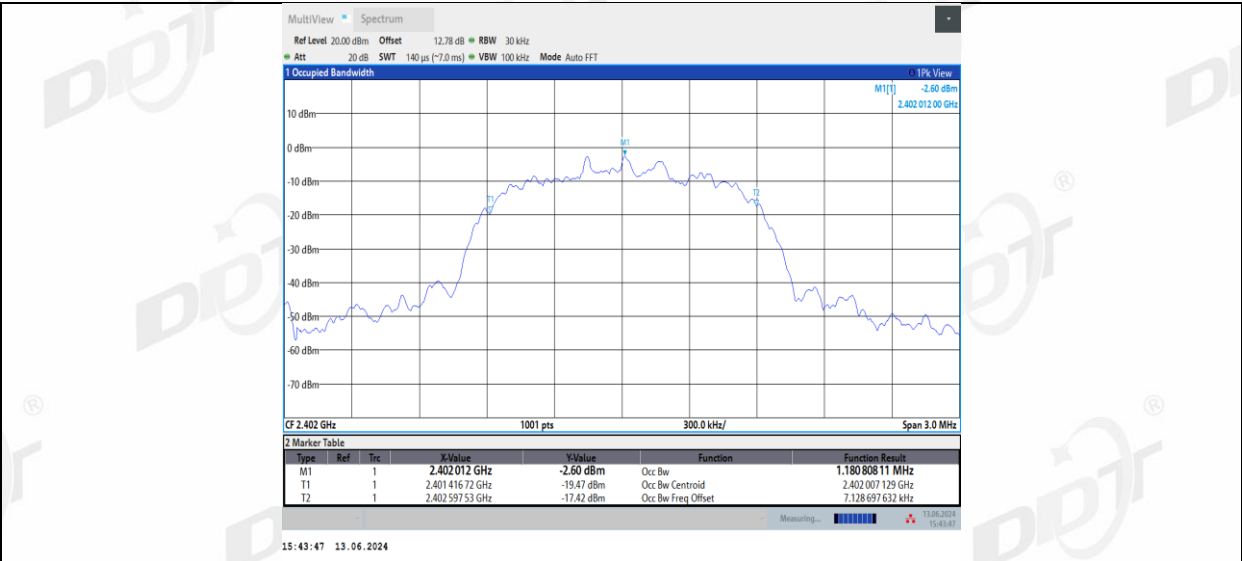
2DH5_Left side_2480



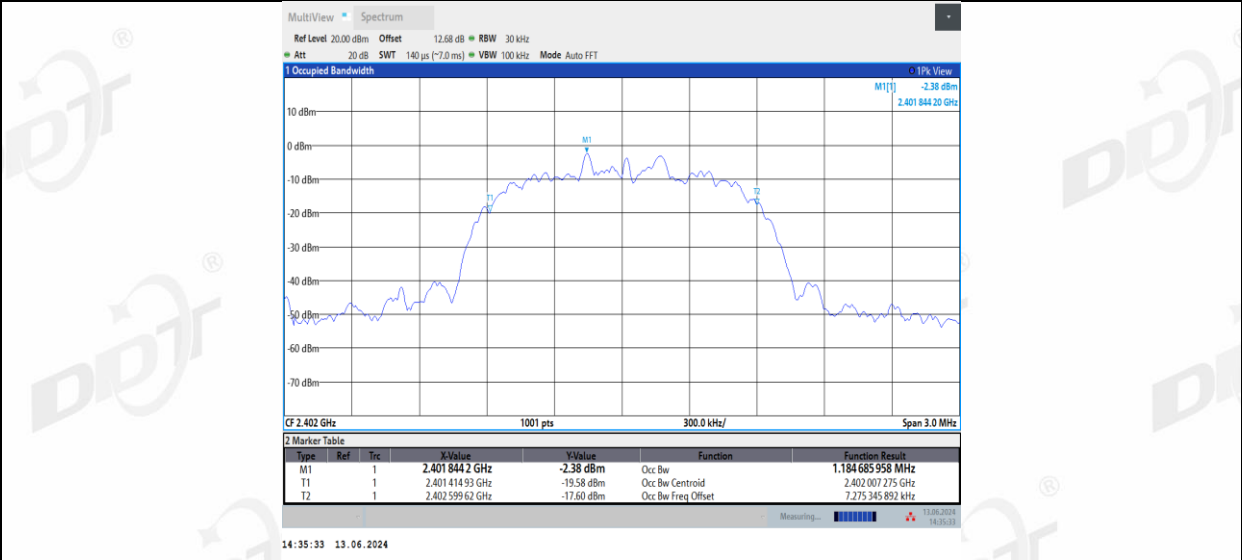
2DH5_Right side_2480



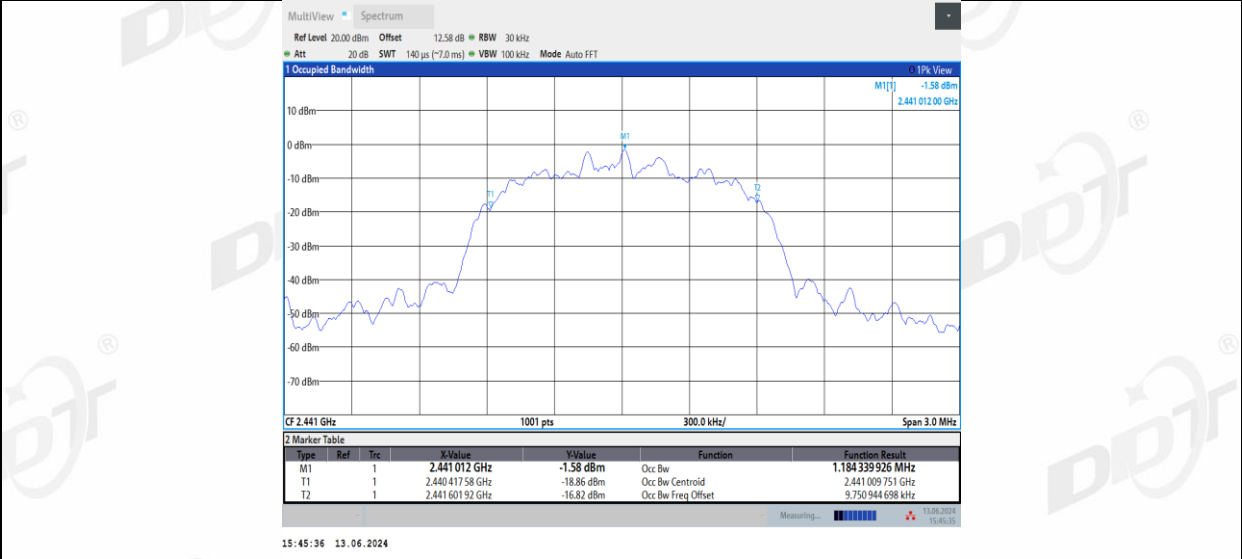
3DH5_Left side_2402



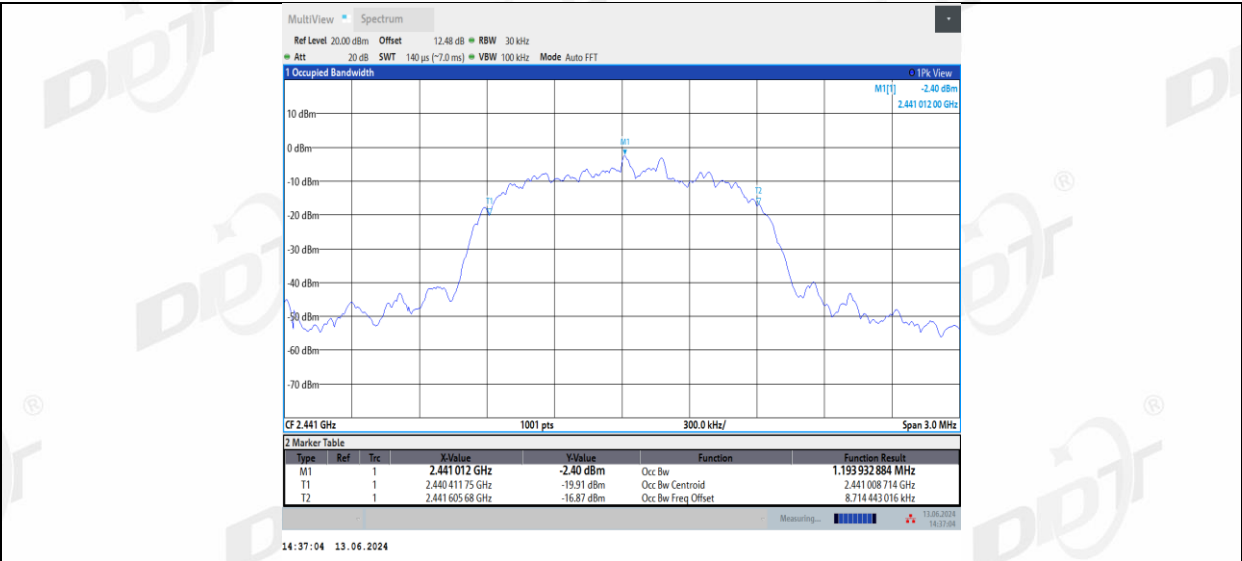
3DH5_Right side_2402



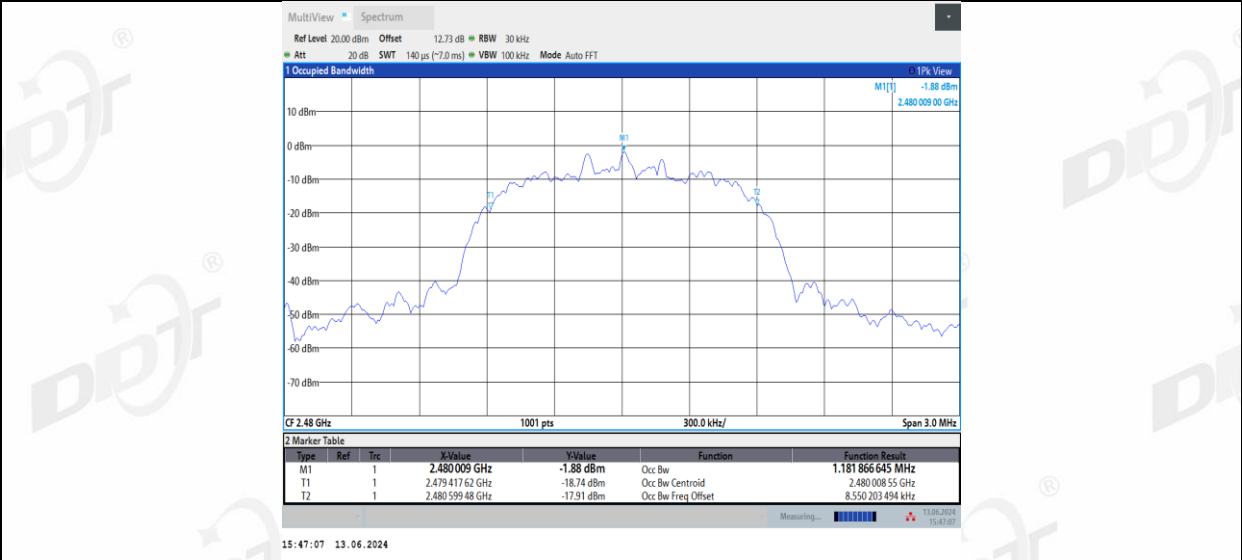
3DH5_Left side_2441



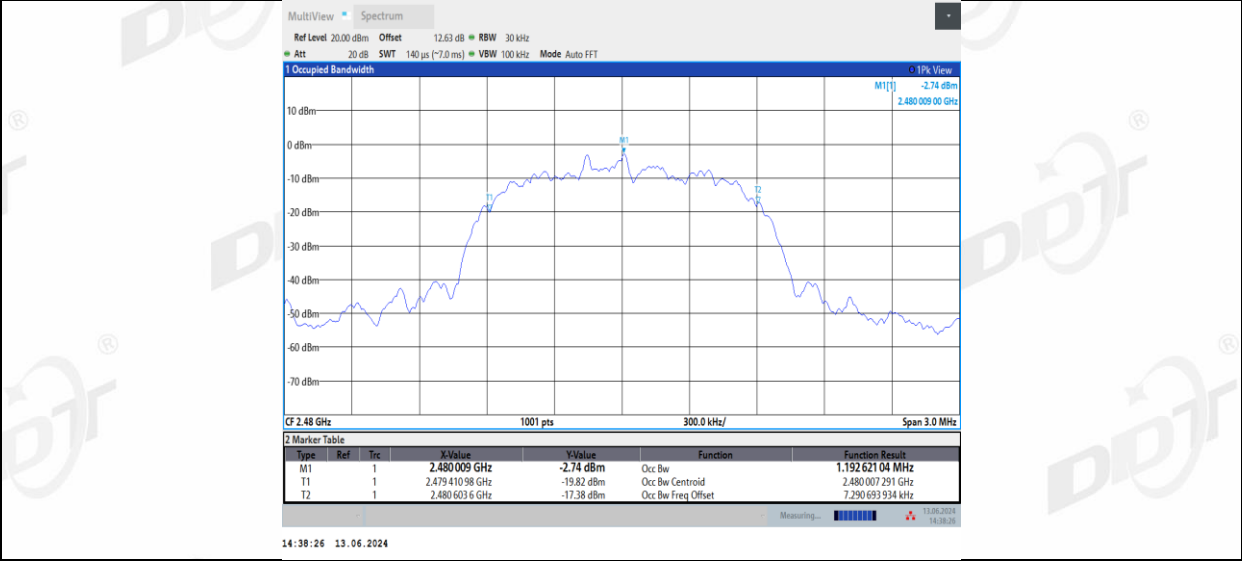
3DH5_Right side_2441



3DH5_Left side_2480

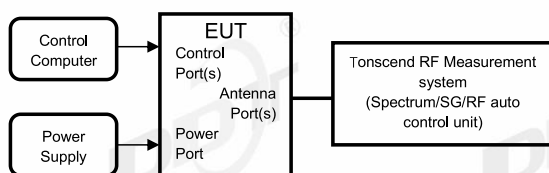


3DH5_Right side_2480



6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 7.8.5.
- (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:	> 20 dB bandwidth of the emission being measured.
VBW:	VBW $\geq$ RBW.
Span:	Approximately five times the 20 dB bandwidth, centered on a hopping channel.
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Use the marker-to-peak function to set the marker to the peak of the emission and record the results in the report.

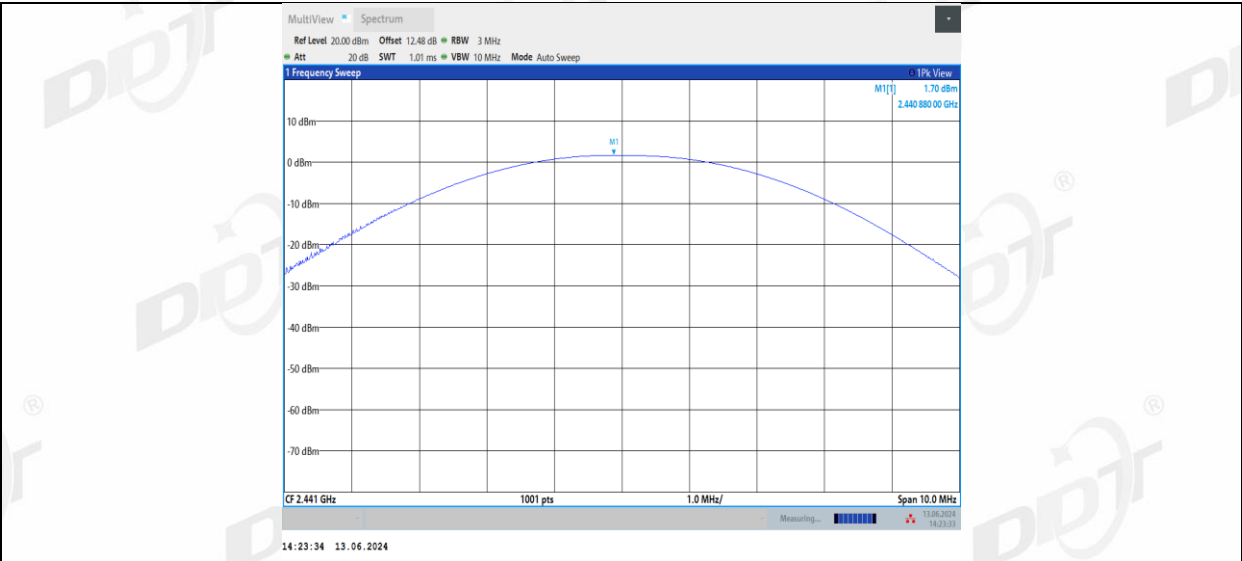
6.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.9℃,43.2%RH	Test Date:	2024.06.13
Test Power Supply:	DC 3.3V	Sample Number:	NA

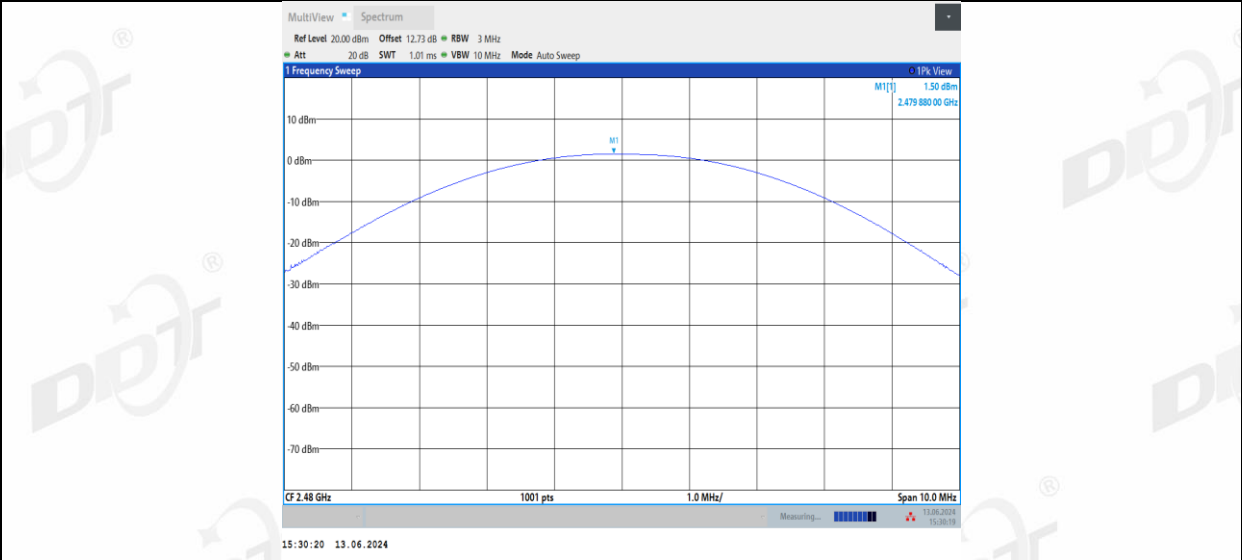
Test Mode	Antenna	Frequenc y [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
DH5	Left side	2402	1.60	≤20.97	0.24	≤30	PASS
	Right side	2402	1.43	≤20.97	0.21	≤30	PASS
	Left side	2441	1.88	≤20.97	0.52	≤30	PASS
	Right side	2441	1.70	≤20.97	0.48	≤30	PASS
	Left side	2480	1.50	≤20.97	0.14	≤30	PASS
	Right side	2480	1.32	≤20.97	0.10	≤30	PASS
2DH5	Left side	2402	2.55	≤20.97	1.19	≤30	PASS
	Right side	2402	2.36	≤20.97	1.14	≤30	PASS
	Left side	2441	2.82	≤20.97	1.46	≤30	PASS
	Right side	2441	2.63	≤20.97	1.41	≤30	PASS
	Left side	2480	2.43	≤20.97	1.07	≤30	PASS
	Right side	2480	2.24	≤20.97	1.02	≤30	PASS
3DH5	Left side	2402	2.99	≤20.97	1.63	≤30	PASS
	Right side	2402	2.80	≤20.97	1.58	≤30	PASS
	Left side	2441	3.29	≤20.97	1.93	≤30	PASS
	Right side	2441	3.07	≤20.97	1.85	≤30	PASS
	Left side	2480	2.91	≤20.97	1.55	≤30	PASS
	Right side	2480	2.69	≤20.97	1.47	≤30	PASS

6.5.Test graphs

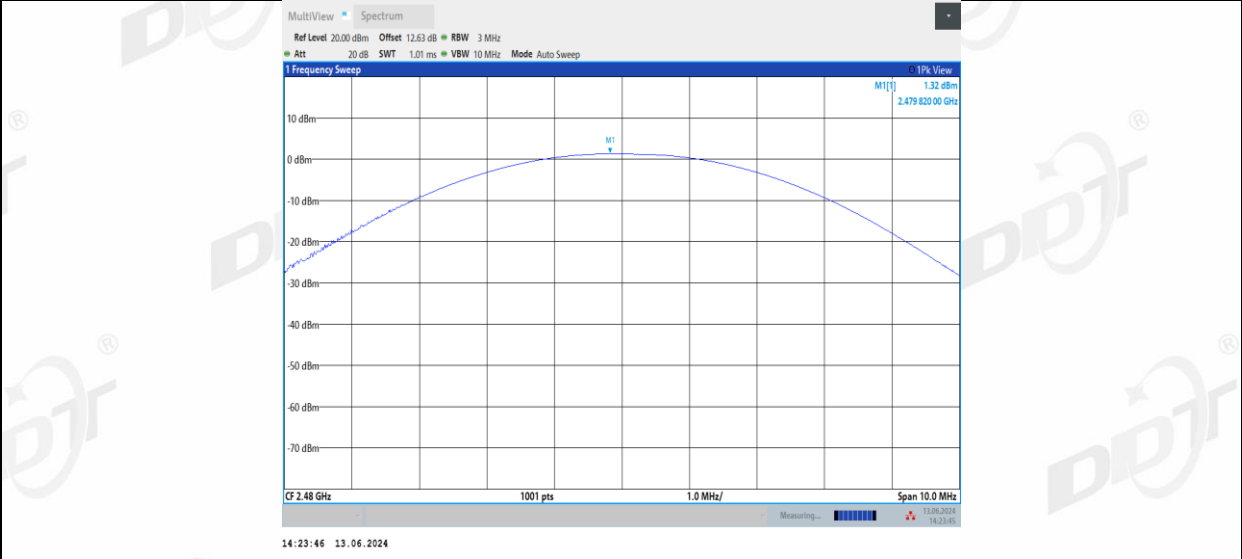




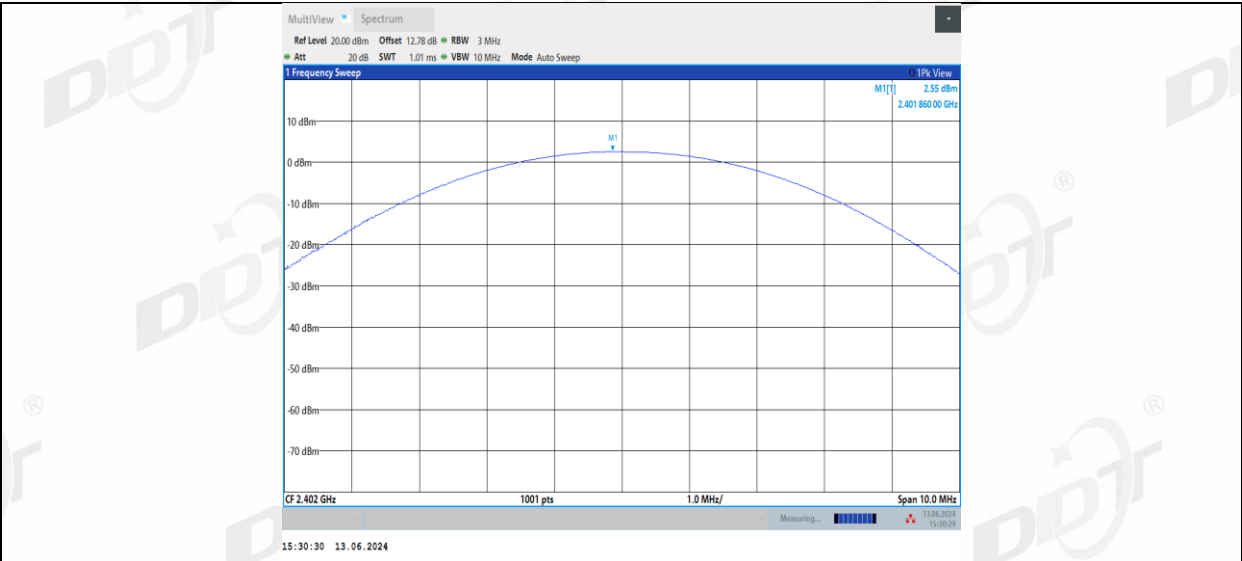
DH5_Left side_2480



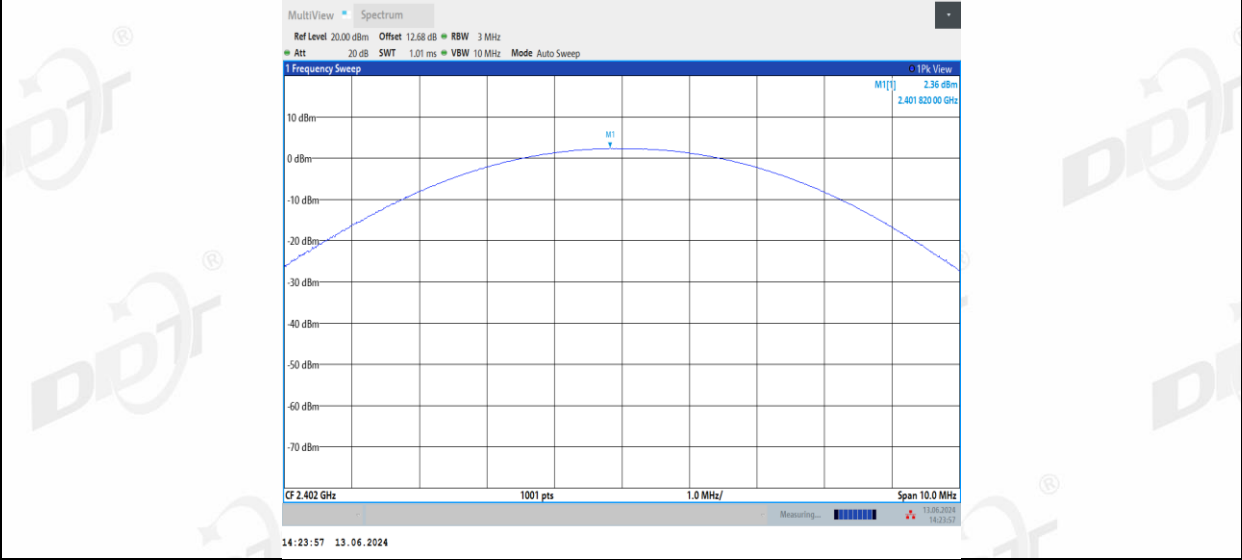
DH5_Right side_2480



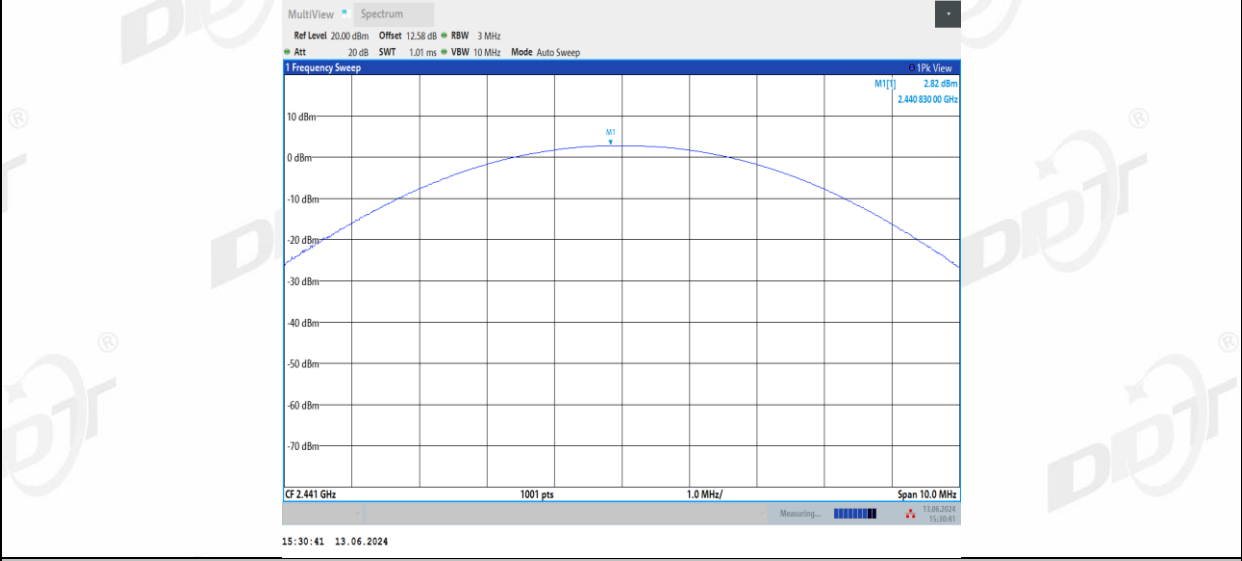
2DH5_Left side_2402



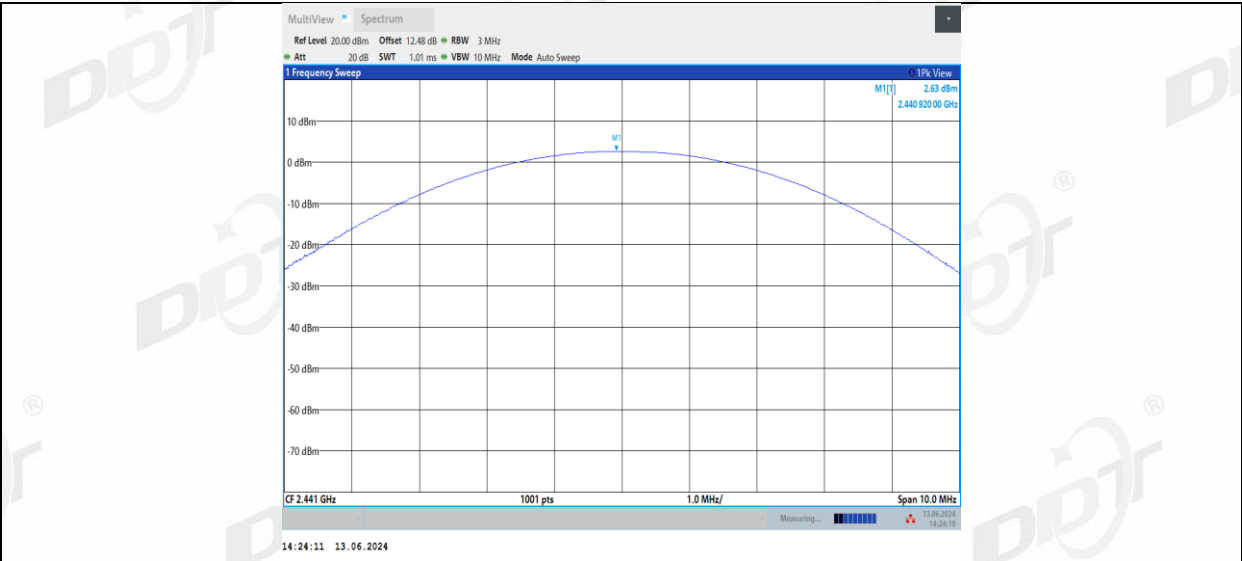
2DH5_Right side_2402



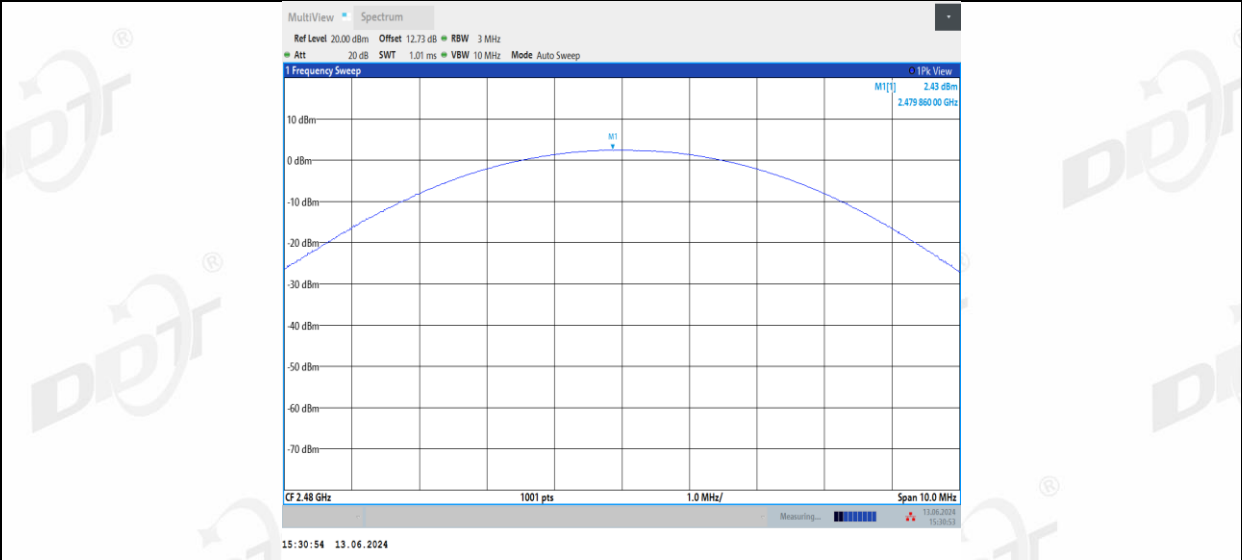
2DH5_Left side_2441



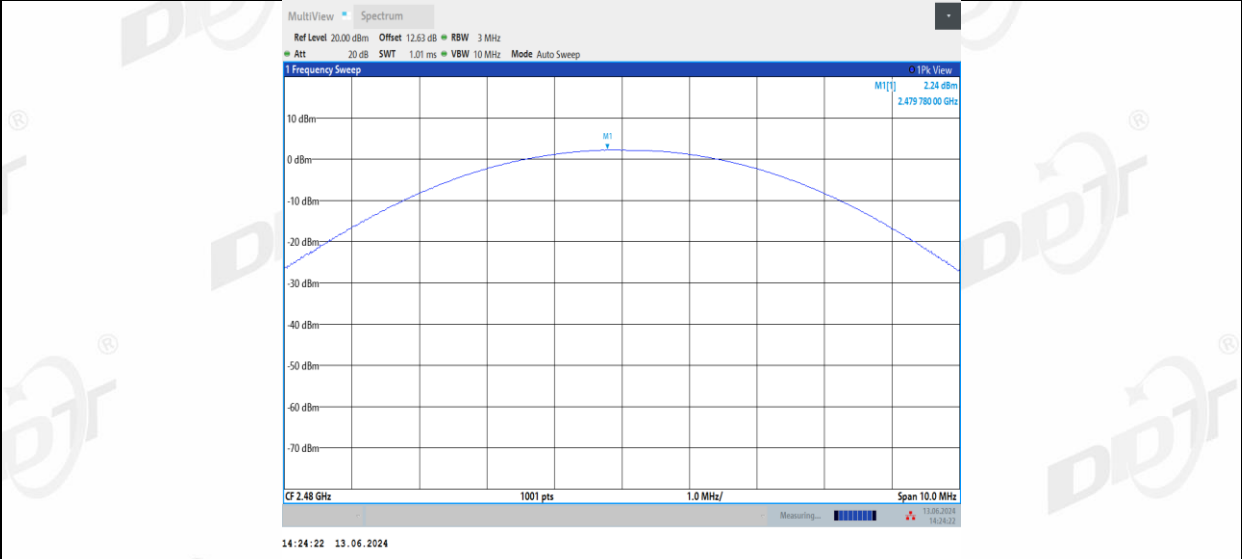
2DH5_Right side_2441



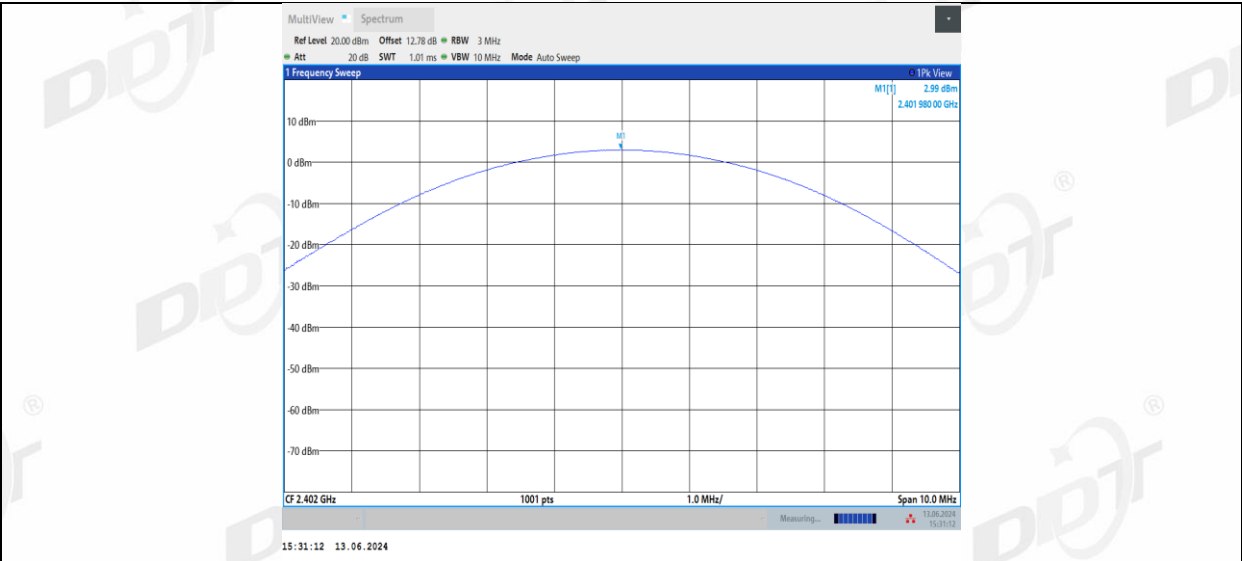
2DH5 Left side 2480



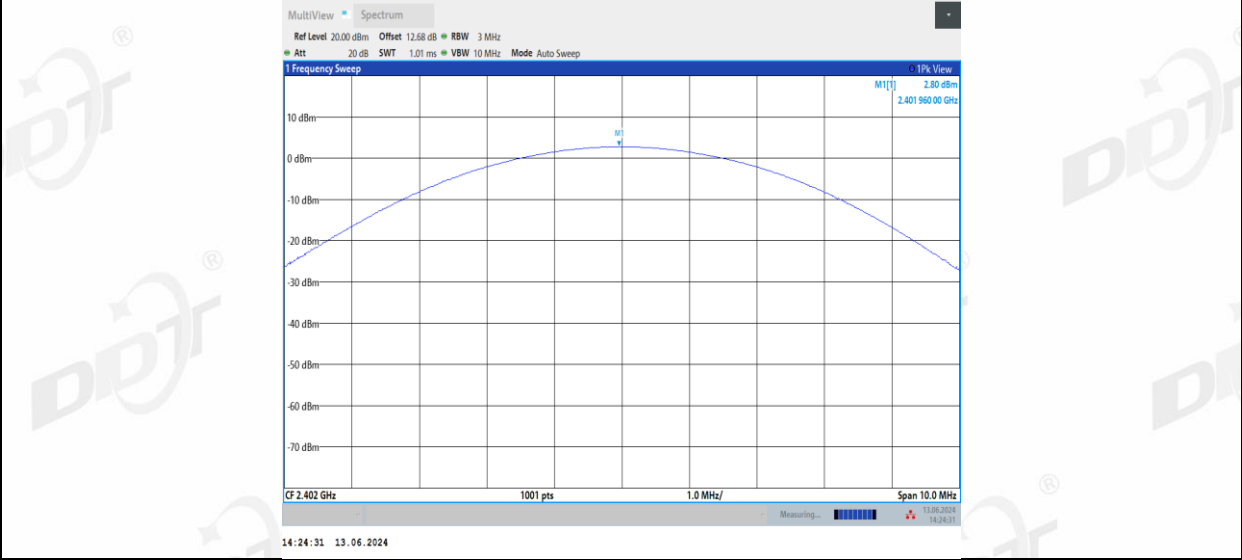
2DH5 Right side 2480



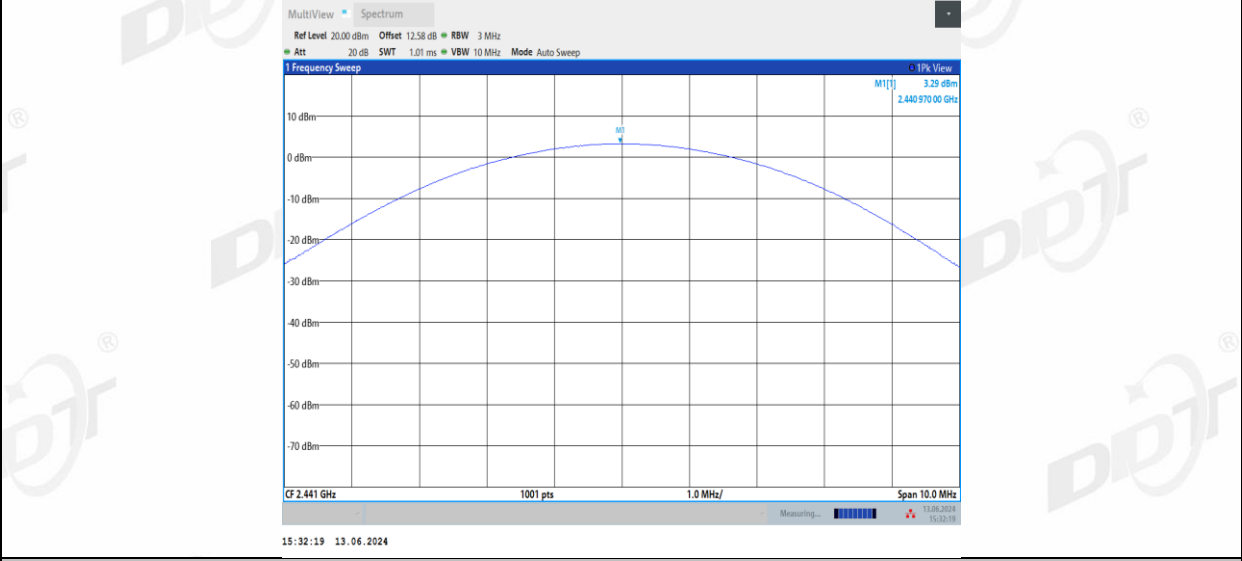
3DH5 Left side 2402



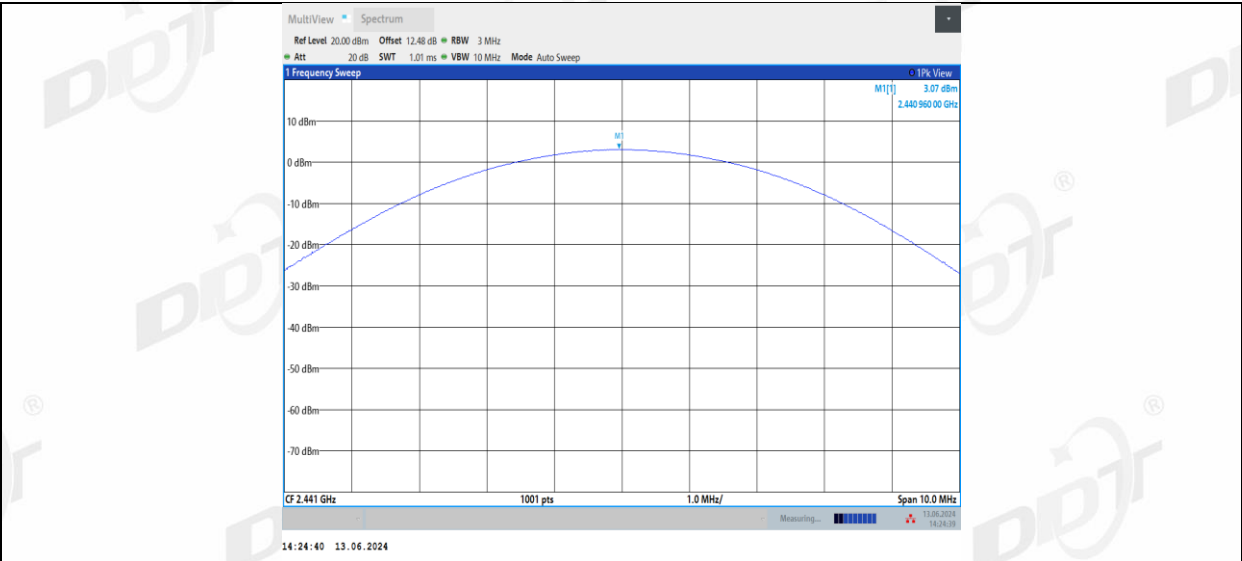
3DH5_Right side_2402



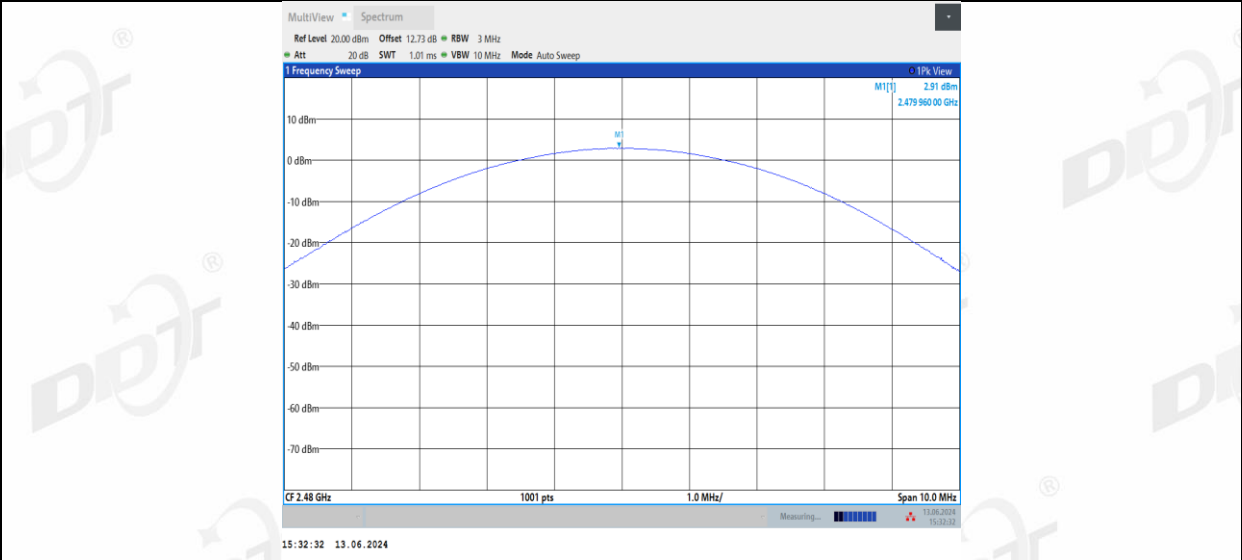
3DH5_Left side_2441



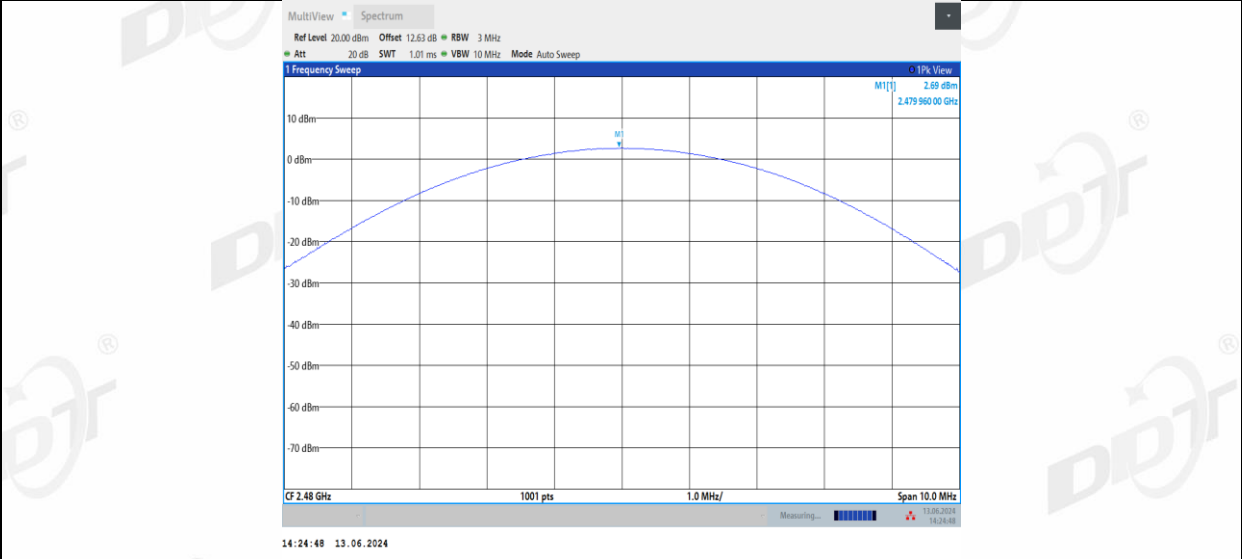
3DH5_Right side_2441



3DH5 Left side_2480

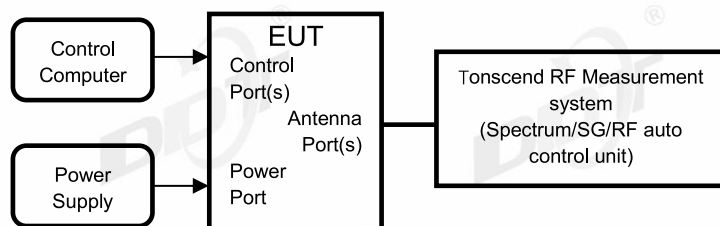


3DH5 Right side_2480



7. Carrier Frequency Separation

7.1. Block diagram of test setup



7.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 7.8.2.
- (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 the maximum peak output power measurement:

RBW:	approximately 30% of the channel spacing
VBW:	VBW $\geq$ RBW.
Span:	Wide enough to capture the peaks of two adjacent channels.
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Use the marker-delta function to determine the separation between the peaks of the adjacent channels and record the results in the report.

7.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.9℃,43.2%RH	Test Date:	2024.06.13
Test Power Supply:	DC 3.3V	Sample Number:	NA

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Left side	Hop	1.002	≥0.960	PASS
	Right side	Hop	1.002	≥0.960	PASS
2DH5	Left side	Hop	1	≥0.887	PASS
	Right side	Hop	1.008	≥0.887	PASS
3DH5	Left side	Hop	1.004	≥0.873	PASS
	Right side	Hop	1.002	≥0.873	PASS

DH5 Left side Hop

Multi/View Spectrum
Ref Level: 30.00 dBm Offset: 12.58 dB RBW: 300 kHz
Att: 30 dB SWT: 1.01 ms VBW: 300 kHz Mode: Auto Sweep

1 Frequency Sweep

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

M1 D2

2.4405 GHz 1001 pts 200.0 kHz/ 2.4425 GHz

Measuring...

15:52:17 13.06.2024

DH5 Right side Hop

Multi/View Spectrum
Ref Level: 30.00 dBm Offset: 12.48 dB RBW: 300 kHz
Att: 30 dB SWT: 1.01 ms VBW: 300 kHz Mode: Auto Sweep

1 Frequency Sweep

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

M1 D2

2.4405 GHz 1001 pts 200.0 kHz/ 2.4425 GHz

Measuring...

14:40:50 13.06.2024

2DH5 Left side Hop

Multi/View Spectrum
Ref Level: 30.00 dBm Offset: 12.58 dB RBW: 300 kHz
Att: 30 dB SWT: 1.01 ms VBW: 300 kHz Mode: Auto Sweep

1 Frequency Sweep

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

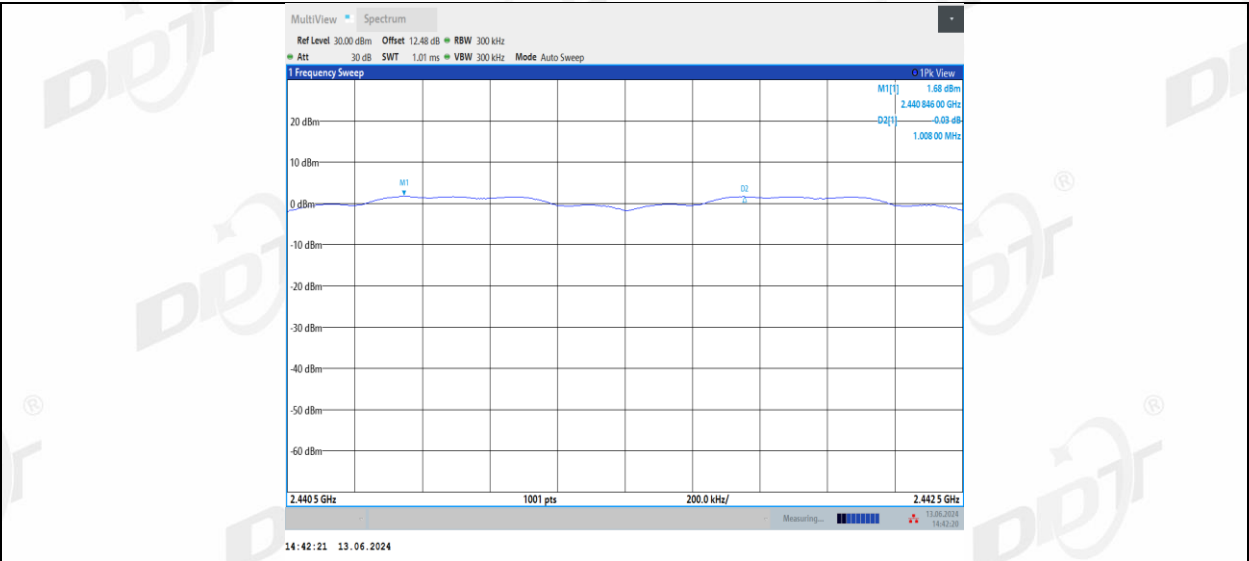
M1 D2

2.4405 GHz 1001 pts 200.0 kHz/ 2.4425 GHz

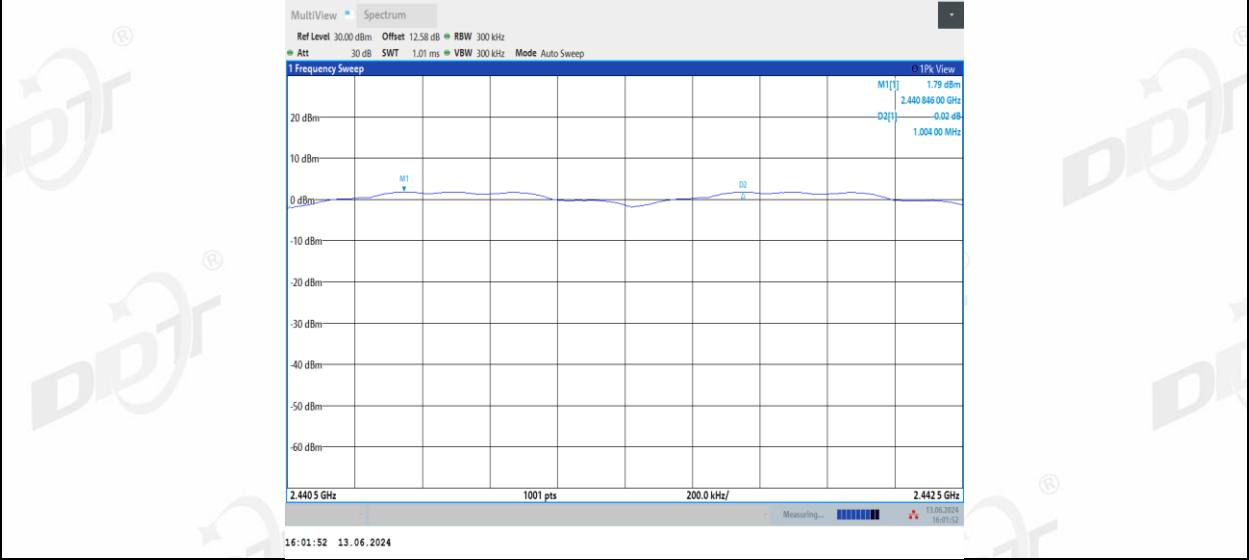
Measuring...

15:57:45 13.06.2024

2DH5 Right side Hop



3DH5_Left side_Hop



3DH5_Right side_Hop

