



RADIO TEST REPORT

Applicant	:	Harman International Industries, Inc.
Address of Applicant	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Manufacturer	:	Harman International Industries, Inc.
Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	BLUETOOTH HEADSET
Model No.	:	LIVE BEAM 4
Test Standard(s)	:	EN 300 328 V2.2.2 (2019-07)
Report No.	:	DDT-RE25103101-1E01
Issue Date	:	2025/12/22
Issued 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

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Equipment under Test	:	BLUETOOTH HEADSET
Model No.	:	LIVE BEAM 4
Manufacturer	:	Harman International Industries, Inc.
Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES




Test Standard Used:

EN 300 328 V2.2.2 (2019-07)

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-RE25103101-1E01		
Date of Receipt:	2025/11/03	Date of Test:	2025/11/03 - 2025/12/07

Created: Zoe Peng	Reviewed: Chen Ziqin	Approved: Damon Hu
		
2025/12/09	2025/12/22	2025/12/22

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	2025/12/22	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	RF output power	4.3.1.2 or 4.3.2.2	Apply all equipment	Pass
2	Power Spectral Density	4.3.2.3	Only for equipment using wide band modulations other than FHSS	N/A
3	Duty Cycle, Tx-Sequence, Tx-gap	4.3.1.3 or 4.3.2.4	Only for non-adaptive equipment	N/A
4	Accumulated Transmit time, Frequency Occupation & Hopping Sequence	4.3.1.4	Only for FHSS equipment	Pass
5	Hopping Frequency Separation	4.3.1.5	Only for FHSS	Pass
6	Medium Utilisation	4.3.1.6 or 4.3.2.5	Only for non-adaptive equipment	N/A
7	Adaptive	4.3.1.7 or 4.3.2.6	Only for adaptive equipment	N/A
8	Occupied Channel Bandwidth	4.3.1.8 or 4.3.2.7	Apply all equipment	Pass
9	Transmitter unwanted emissions in the OOB domain	4.3.1.9 or 4.3.2.8	Apply all equipment	Pass
10	Transmitter unwanted emissions in the spurious domain	4.3.1.10 or 4.3.2.9	Apply all equipment	Pass
11	Receiver spurious emissions	4.3.1.11 or 4.3.2.10	Apply all equipment	Pass
12	Receiver Blocking	4.3.1.12 or 4.3.2.11	Apply all equipment	Pass
13	Geo-location capability	4.3.1.13 or 4.3.2.12	Only for equipment with geo-location capability	N/A

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	: BLUETOOTH HEADSET
Model Number	: LIVE BEAM 4
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: CHARGING CASE: DC 5V from USB cable or Wireless charger EARBUDS: DC 5V from external charging case CHARGING CASE: DC 3.8V Lithium-ion built-in battery EARBUDS: DC 3.85V Lithium-ion built-in battery
Hardware Version	: V0.2.1
Software Version	: 25.48.16
Antenna Type	: LDS Antenna
Max Antenna Gain(dBi)	: Left: -0.65dBi, Right: -1.63dBi

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

Bluetooth BR/EDR 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: BQB.exe

The test software was used to control EUT work in Continuous Tx mode and Rx 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			
Tested mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	2	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	2	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	2	CH0	2402
	2	CH39	2441
	2	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	2	CH0	2402
	2	CH39	2441
	2	CH78	2480
Rx mode	/	CH0	2402
	/	CH39	2441
	/	CH78	2480
Note: According exploratory test, EUT will have maximum output power in those data rate, worst-case data rates were: GFSK mode: DH5, $\pi/4$ -DQPSK mode: 2DH5			

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

/	Normal Conditions	Extreme Conditions
Temperature range	15 °C to 35 °C	0 °C to +45 °C
Humidity range	20% to 75%	N/A
Pressure range	86-106 kPa	N/A
Power supply	Battery (DC3.85V)	N/A

Note 1: The Extreme temperature range and extreme voltages are declared by the manufacturer.

Note 2: NTNV: Normal Temperature Normal Voltage, LTNV: Low Temperature Normal Voltage, HTNV: High Temperature Normal Voltage.

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)

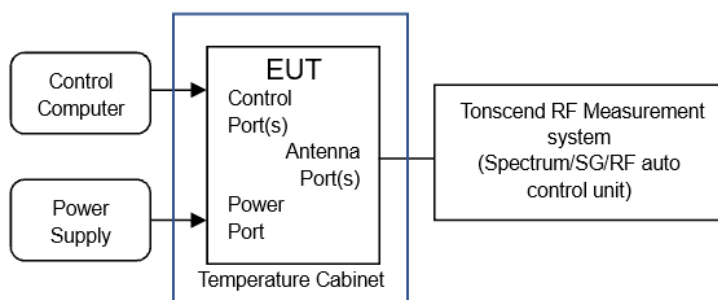
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
<input checked="" type="checkbox"/> RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. RF Output Power

4.1. Block diagram of test setup



4.2. Limits

The maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20 dBm.

The maximum RF output power for this equipment shall be equal to or less than the value declared by the manufacturer. This declared value shall be equal to or less than 20 dBm.

This limit shall apply for any combination of power level and intended antenna assembly.

4.3. Test procedure

- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.2.2.1.
- (2) Connect EUT's antenna output to power sensor by RF cable, the path loss was compensated to the results.
- (3) For FHSS equipment, the measurements shall be performed during normal operation (hopping) and the equipment is assumed to have no blacklisted frequencies (operating on all hopping frequencies).
- (4) For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) is captured.
- (5) The measurements for RF output power shall be performed at both normal environmental conditions and at the extremes of the operating temperature range.

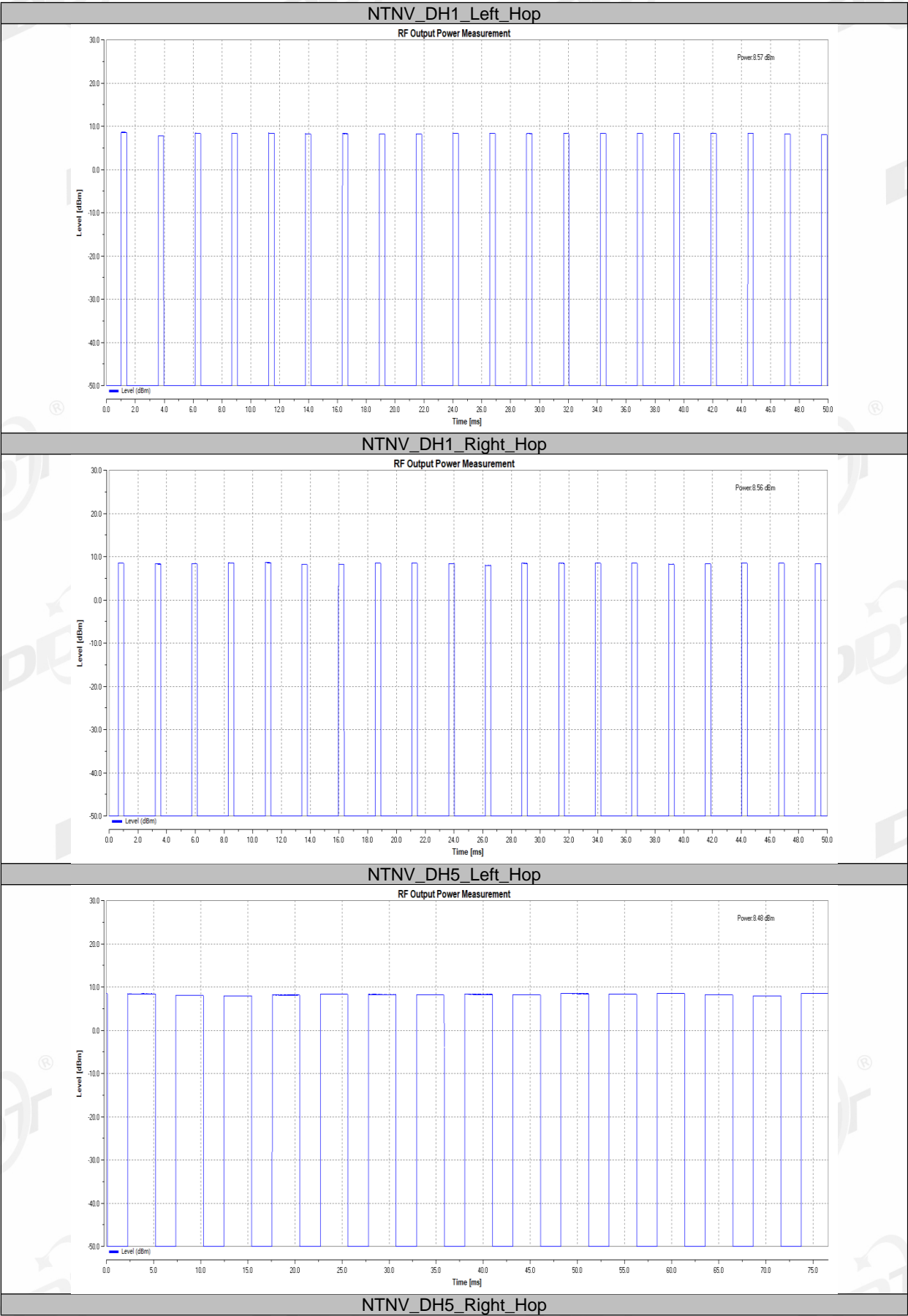
4.4. Test result

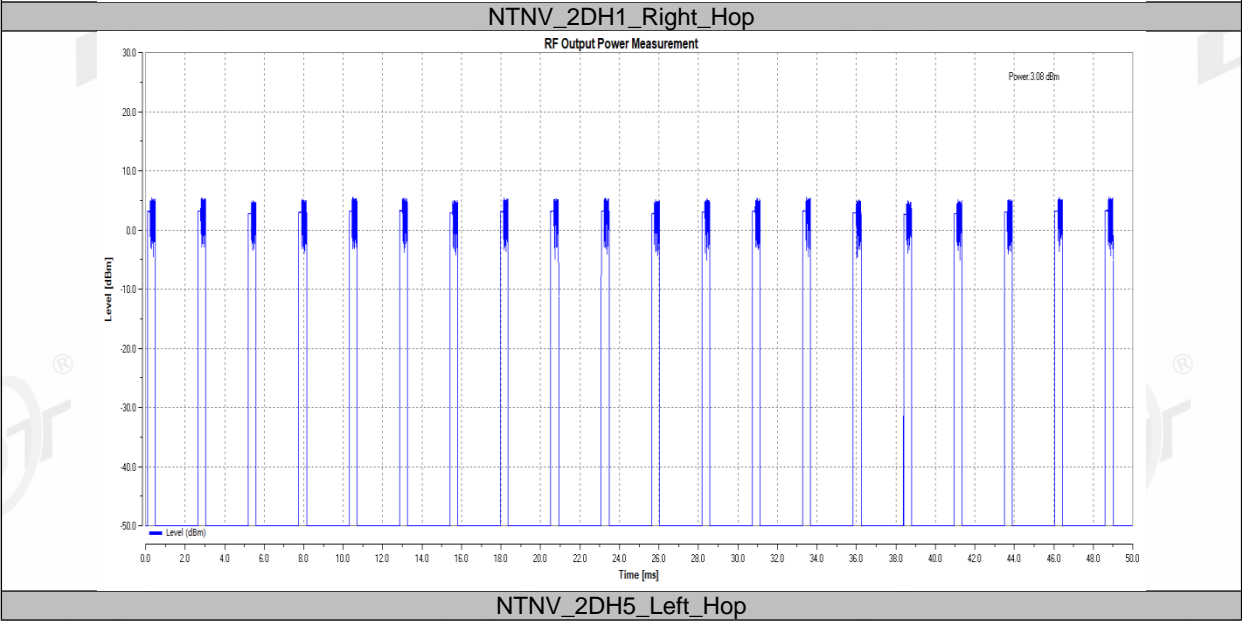
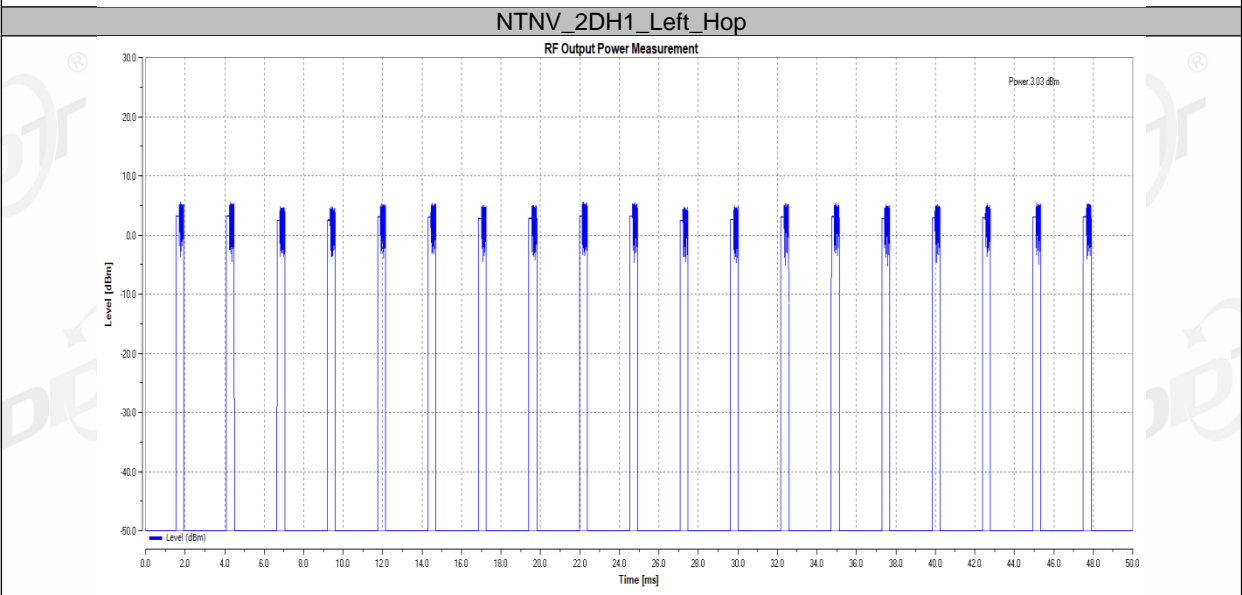
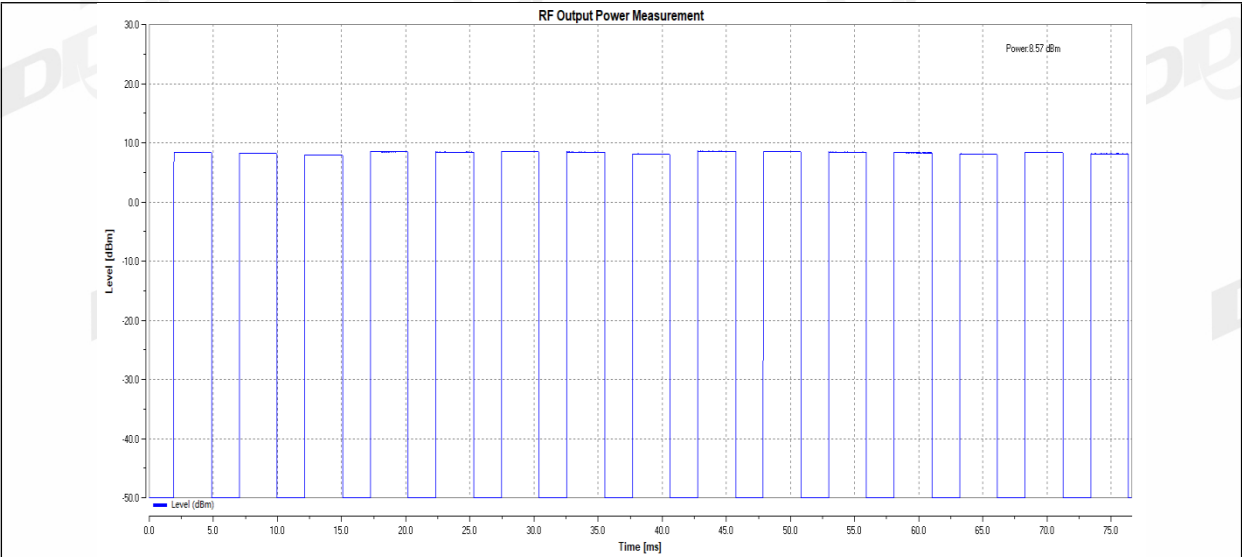
Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

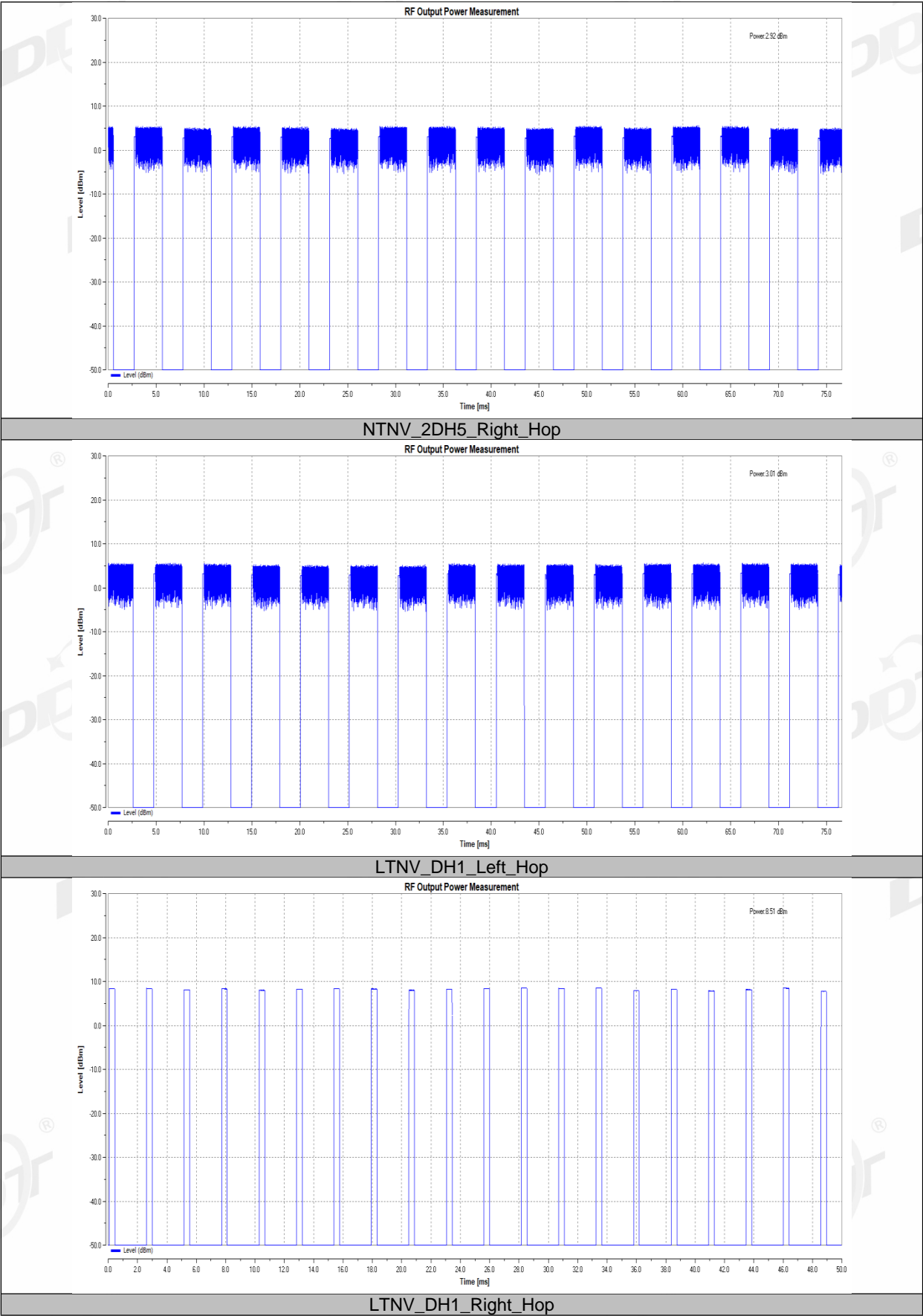
Test Condition	Test Mode	Antenna	Frequency[MHz]	Burst Power [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH1	Left	Hop	8.57	7.92	20	PASS
		Right	Hop	8.56	6.93	20	PASS
	DH5	Left	Hop	8.48	7.83	20	PASS
		Right	Hop	8.57	6.94	20	PASS
	2DH1	Left	Hop	3.03	2.38	20	PASS
		Right	Hop	3.08	1.45	20	PASS
	2DH5	Left	Hop	2.92	2.27	20	PASS
		Right	Hop	3.01	1.38	20	PASS
LTVN	DH1	Left	Hop	8.51	7.86	20	PASS
		Right	Hop	8.56	6.93	20	PASS
	DH5	Left	Hop	8.56	7.91	20	PASS
		Right	Hop	8.59	6.96	20	PASS
	2DH1	Left	Hop	3.09	2.44	20	PASS
		Right	Hop	3.13	1.50	20	PASS
	2DH5	Left	Hop	3.01	2.36	20	PASS
		Right	Hop	3.04	1.41	20	PASS
HTNV	DH1	Left	Hop	8.56	7.91	20	PASS
		Right	Hop	8.57	6.94	20	PASS
	DH5	Left	Hop	8.47	7.82	20	PASS
		Right	Hop	8.48	6.85	20	PASS
	2DH1	Left	Hop	3.09	2.44	20	PASS
		Right	Hop	3.09	1.46	20	PASS
	2DH5	Left	Hop	3.04	2.39	20	PASS
		Right	Hop	3.09	1.46	20	PASS

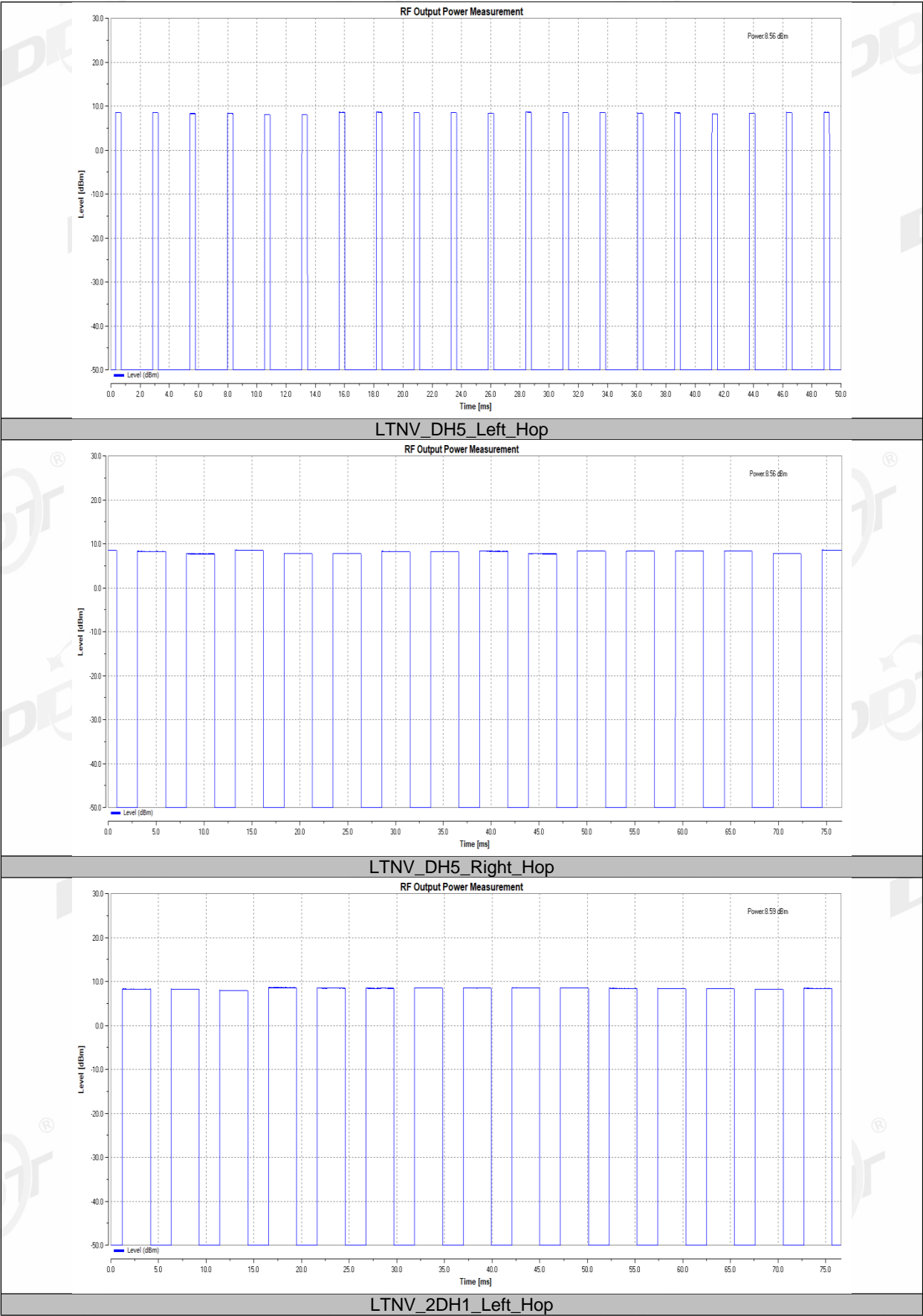
Note: EIRP = Measured Highest Pburst Values + Antenna Gain

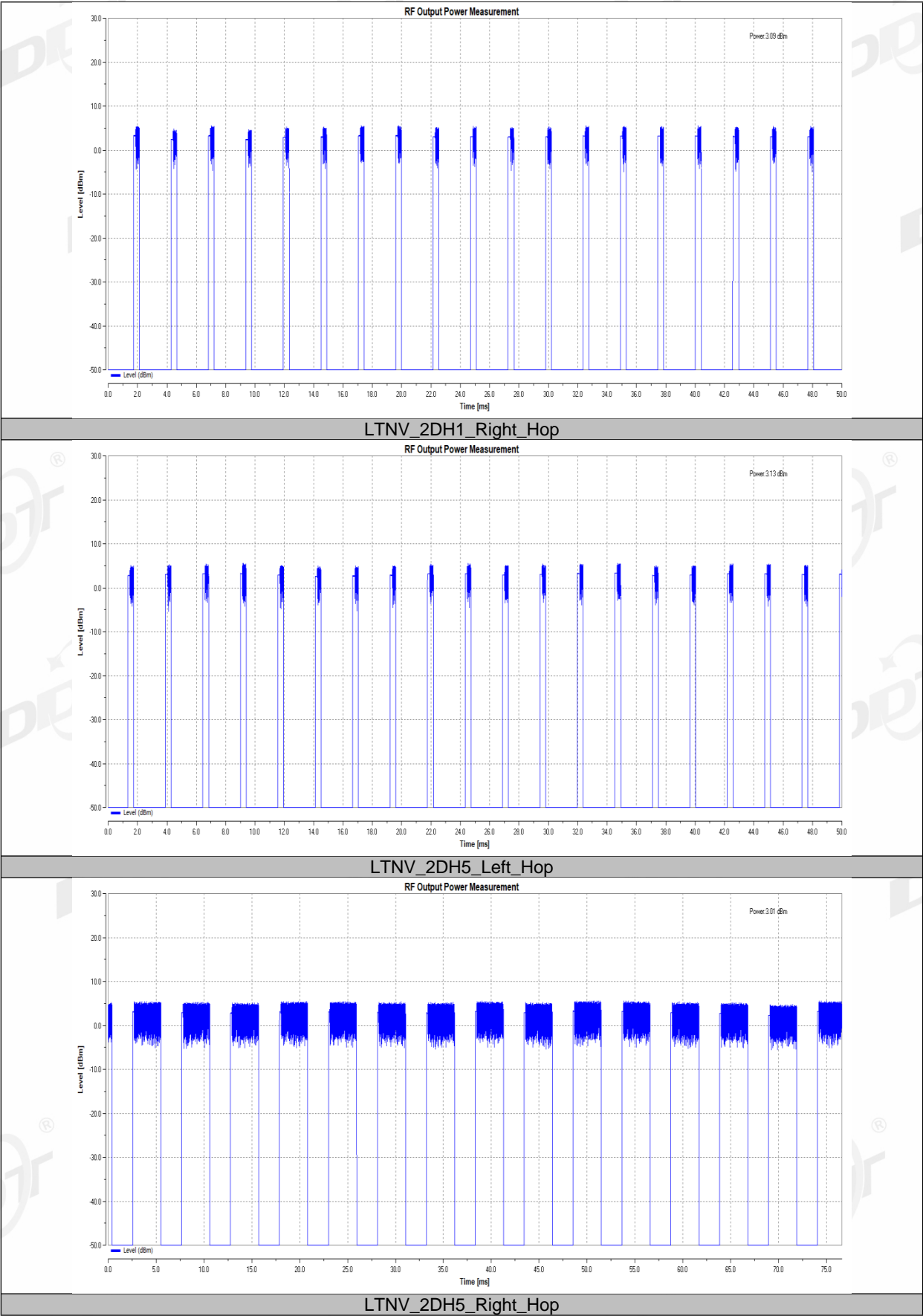
4.5. Test graphs

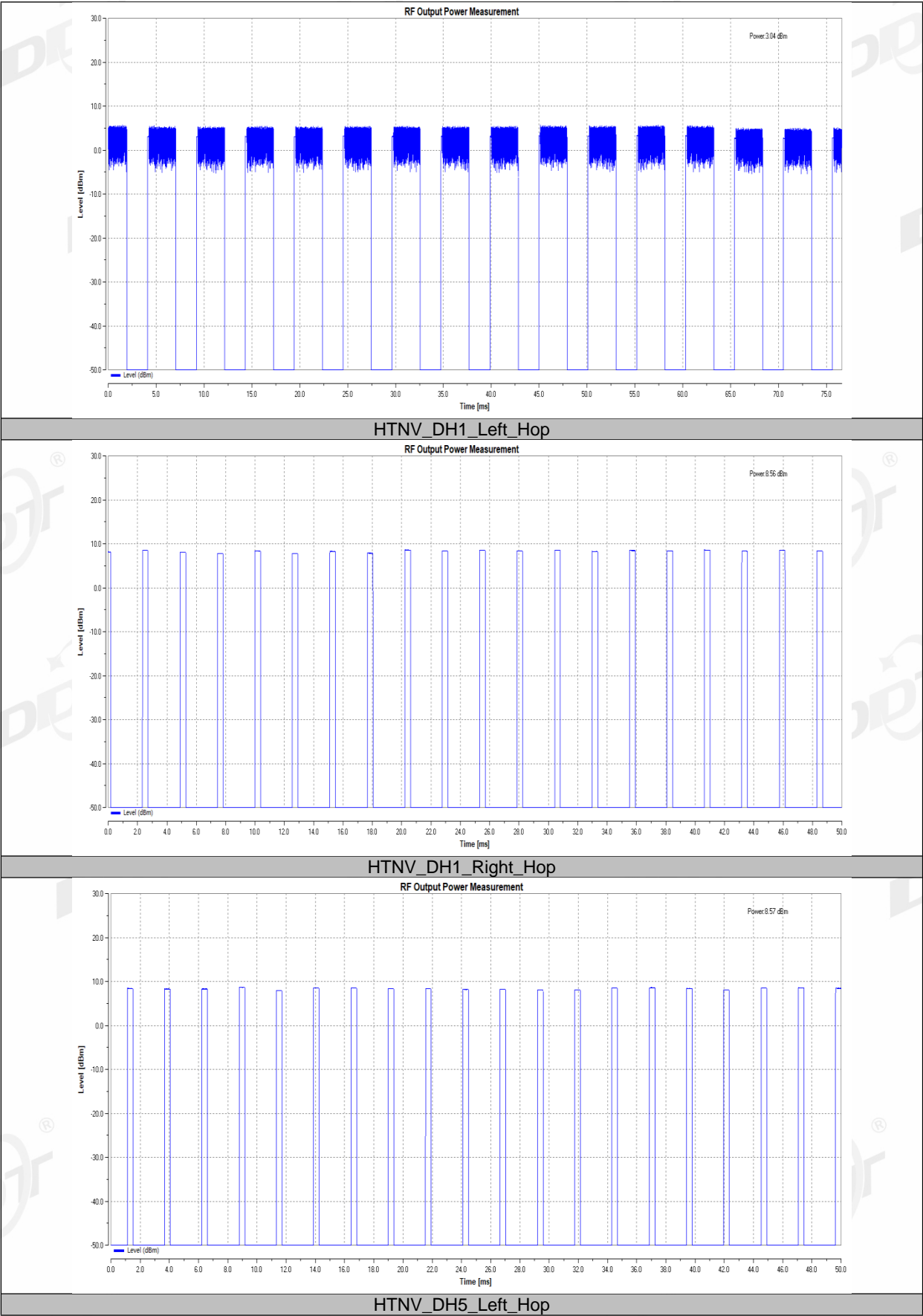


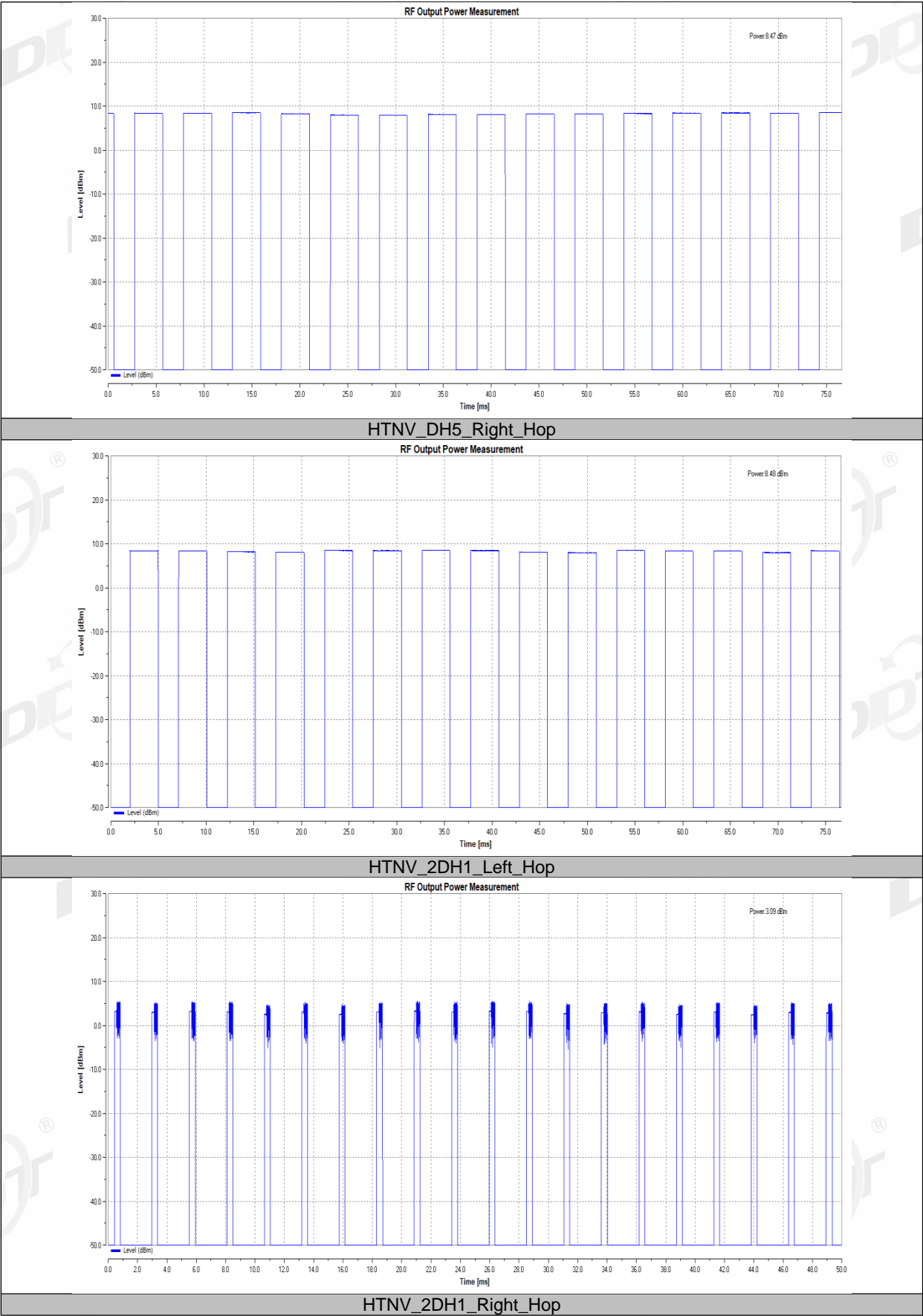


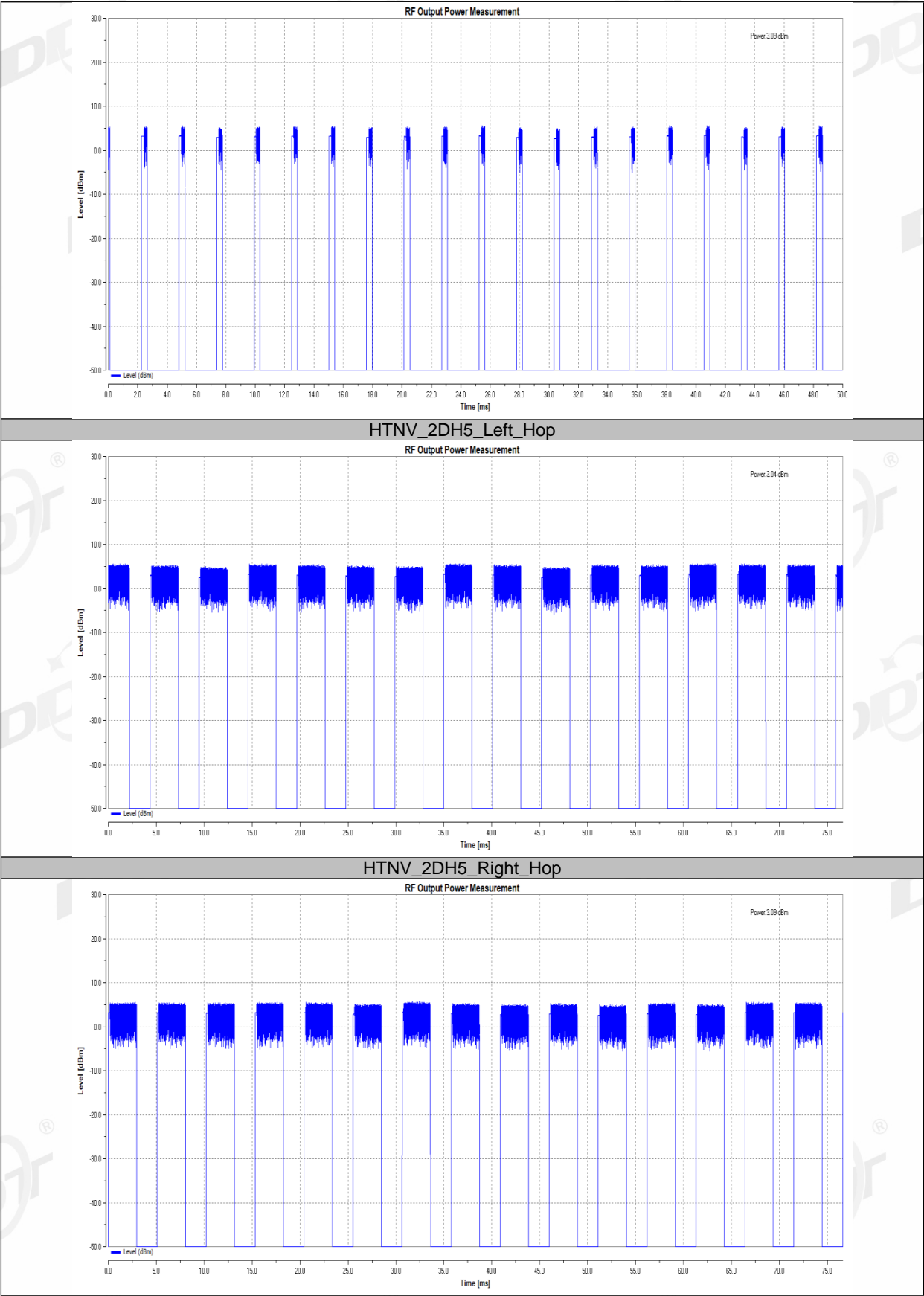






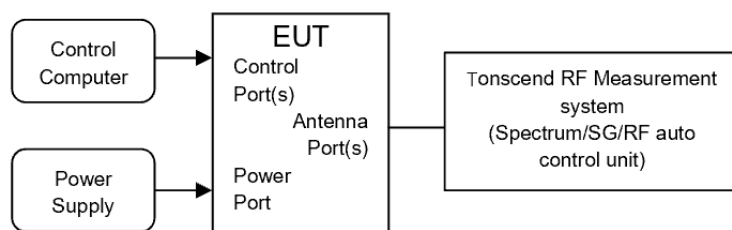






5. Occupied Channel Bandwidth

5.1. Block diagram of test setup



5.2. Limits

The Occupied Channel Bandwidth for each hopping frequency shall fall completely within the band 2400 MHz to 2483.5 MHz for this device.

5.3. Test procedure

- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.7.2.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) For FHSS equipment having overlapping channels, special software might be required to force the UUT to hop or transmit on a single Hopping Frequency. The measurement shall be performed only on the lowest and the highest frequency within the stated frequency range.
- (4) The frequencies on which the tests were performed shall be recorded.
- (5) Set the spectrum analyzer as follows:

Centre Frequency:	The centre frequency of the channel under test
Frequency Span:	2 xNominal Channel Bandwidth
RBW:	~ 1 % of the span without going below 1 %
VBW:	3 x RBW
Detector Mode:	RMS
Sweep time:	1s
Trace Mode:	Max Hold

When the trace has completed, use the 99% bandwidth function of the spectrum analyzer to measure the occupied channel bandwidth of the EUT.

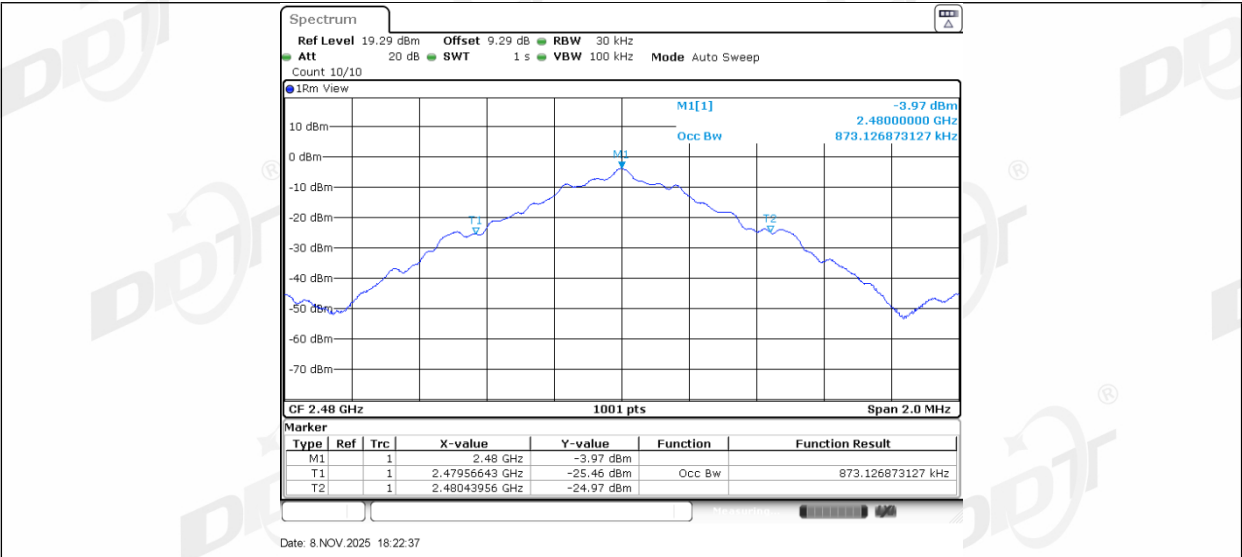
5.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

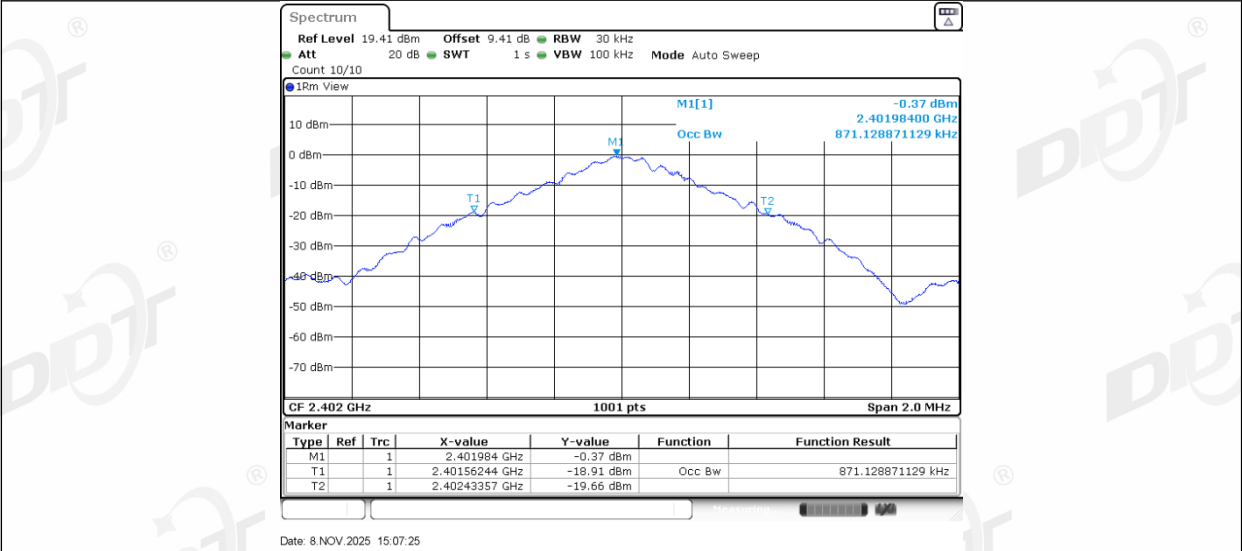
Test Mode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH1	Left	2402	0.87912	2401.5644	2402.4436	2400 to 2483.5	PASS
	Right	2402	0.87313	2401.5664	2402.4396	2400 to 2483.5	PASS
	Left	2480	0.87512	2479.5664	2480.4416	2400 to 2483.5	PASS
	Right	2480	0.87313	2479.5664	2480.4396	2400 to 2483.5	PASS
DH5	Left	2402	0.87113	2401.5624	2402.4336	2400 to 2483.5	PASS
	Right	2402	0.86713	2401.5644	2402.4316	2400 to 2483.5	PASS
	Left	2480	0.87313	2479.5624	2480.4356	2400 to 2483.5	PASS
	Right	2480	0.86713	2479.5624	2480.4296	2400 to 2483.5	PASS
2DH1	Left	2402	1.1588	2401.4066	2402.5654	2400 to 2483.5	PASS
	Right	2402	1.1568	2401.4066	2402.5634	2400 to 2483.5	PASS
	Left	2480	1.1588	2479.4086	2480.5674	2400 to 2483.5	PASS
	Right	2480	1.1588	2479.4046	2480.5634	2400 to 2483.5	PASS
2DH5	Left	2402	1.1948	2401.4026	2402.5974	2400 to 2483.5	PASS
	Right	2402	1.1948	2401.4026	2402.5974	2400 to 2483.5	PASS
	Left	2480	1.1968	2479.4026	2480.5994	2400 to 2483.5	PASS
	Right	2480	1.1968	2479.4006	2480.5974	2400 to 2483.5	PASS

5.5. Test graphs

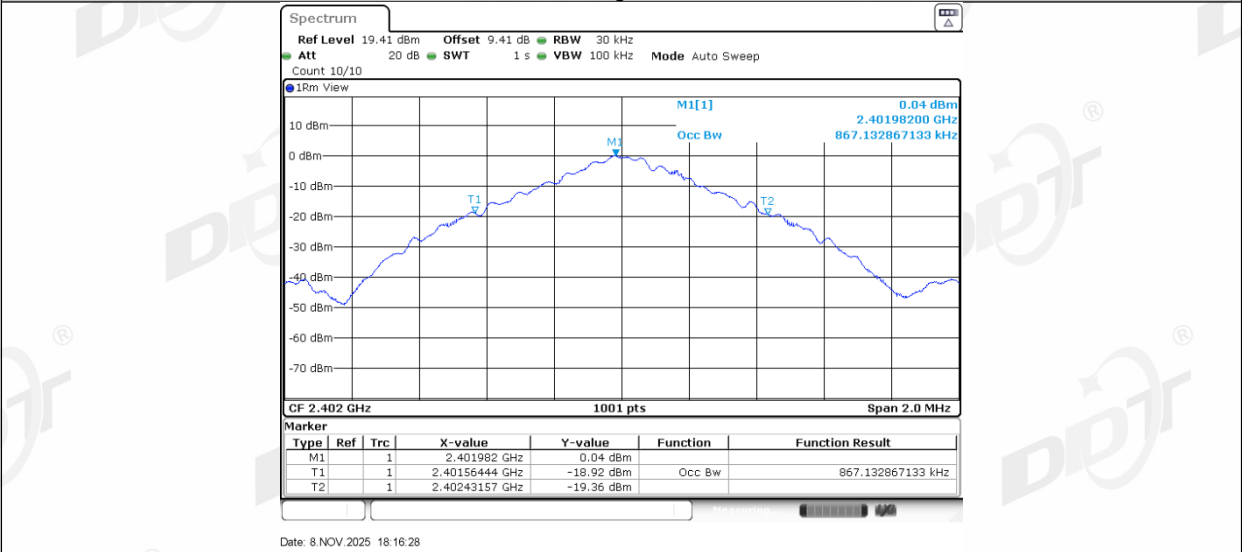




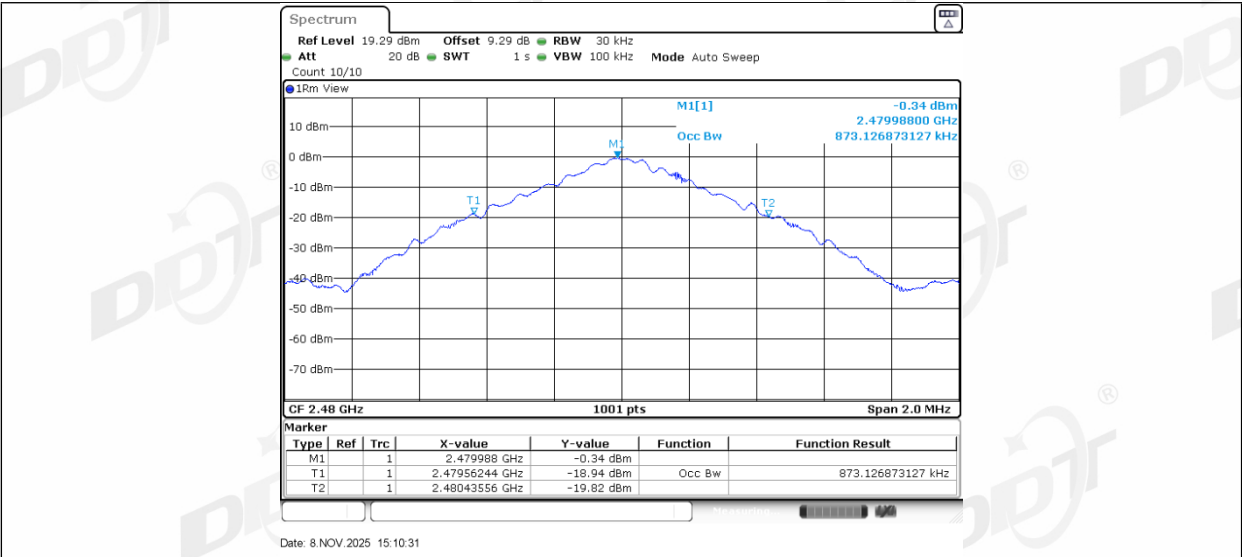
DH5_Left_2402



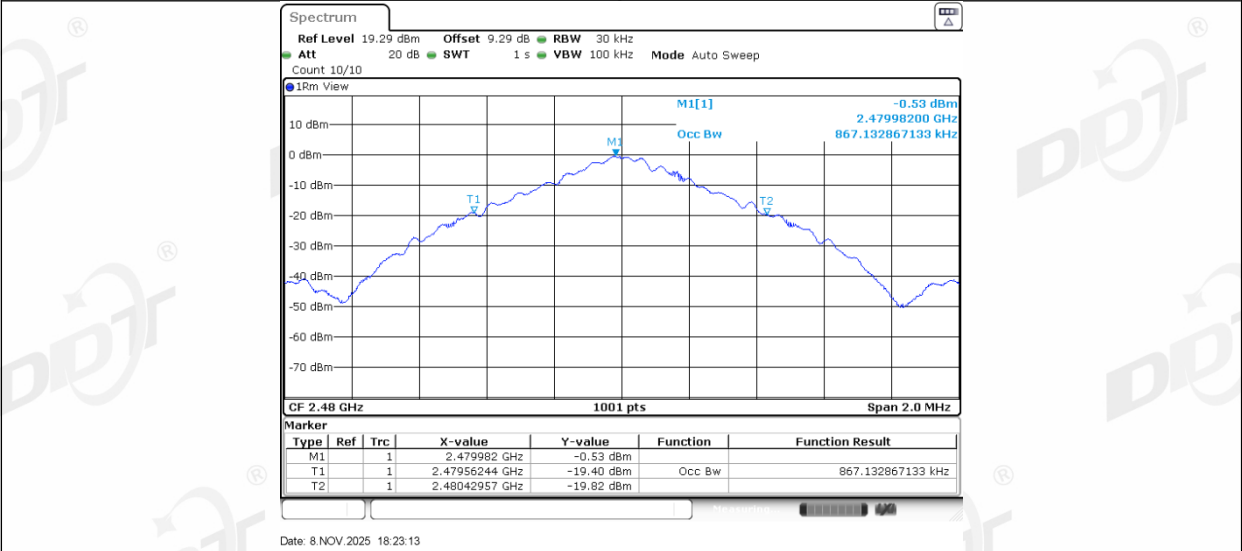
DH5_Right_2402



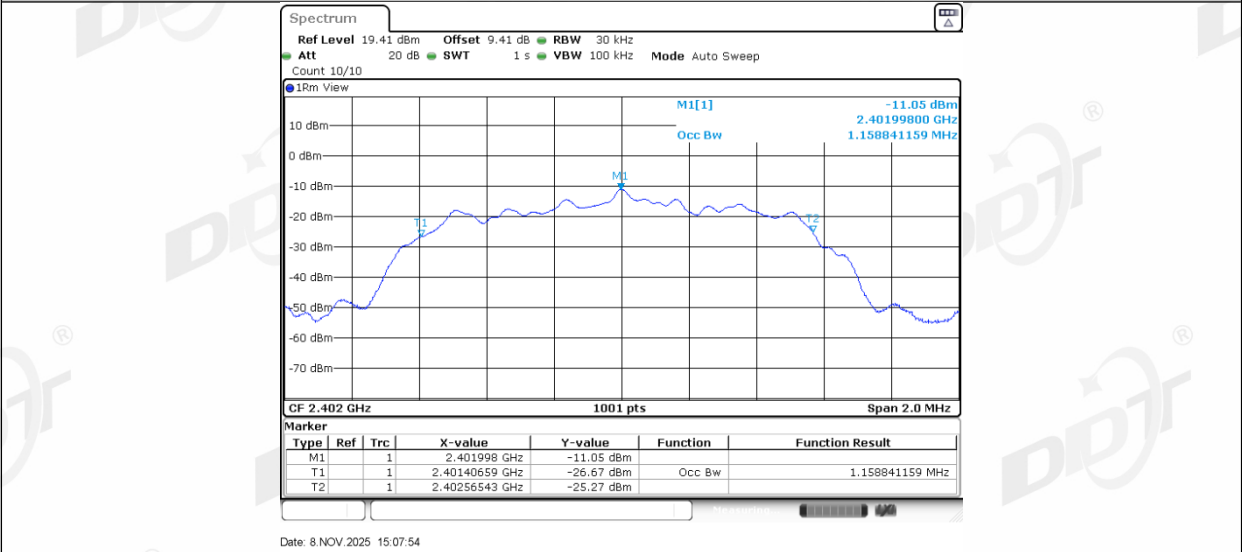
DH5_Left_2480



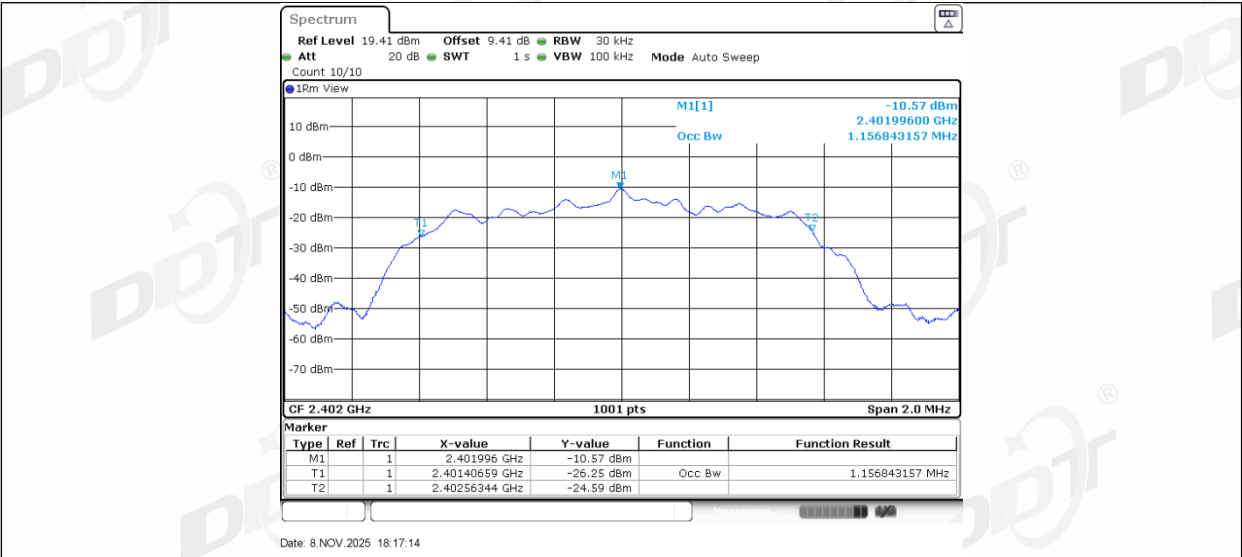
DH5_Right_2480



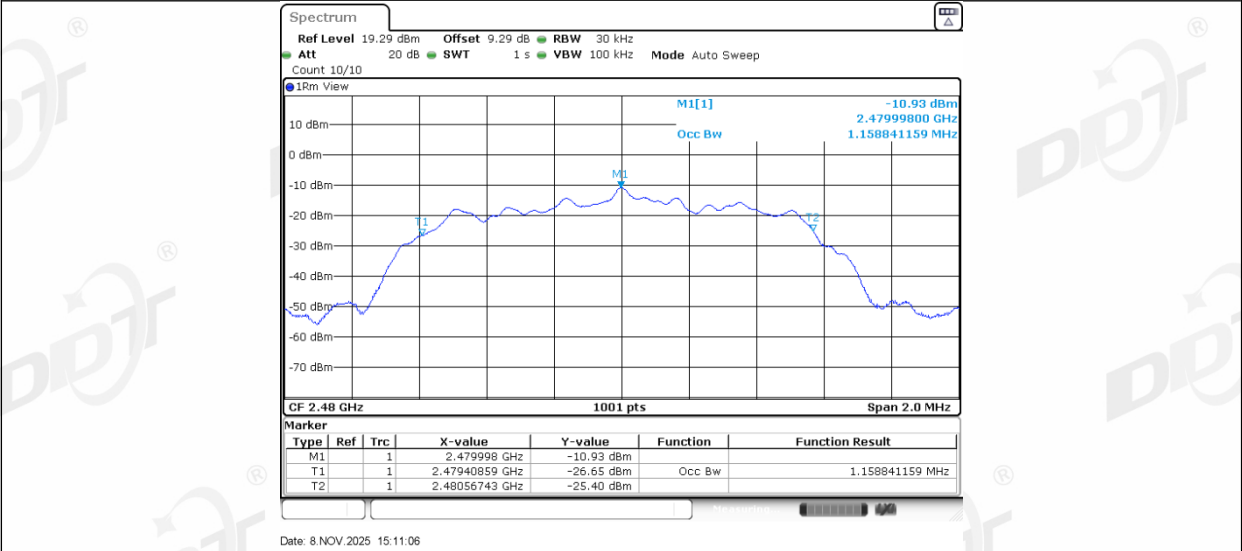
2DH1_Left_2402



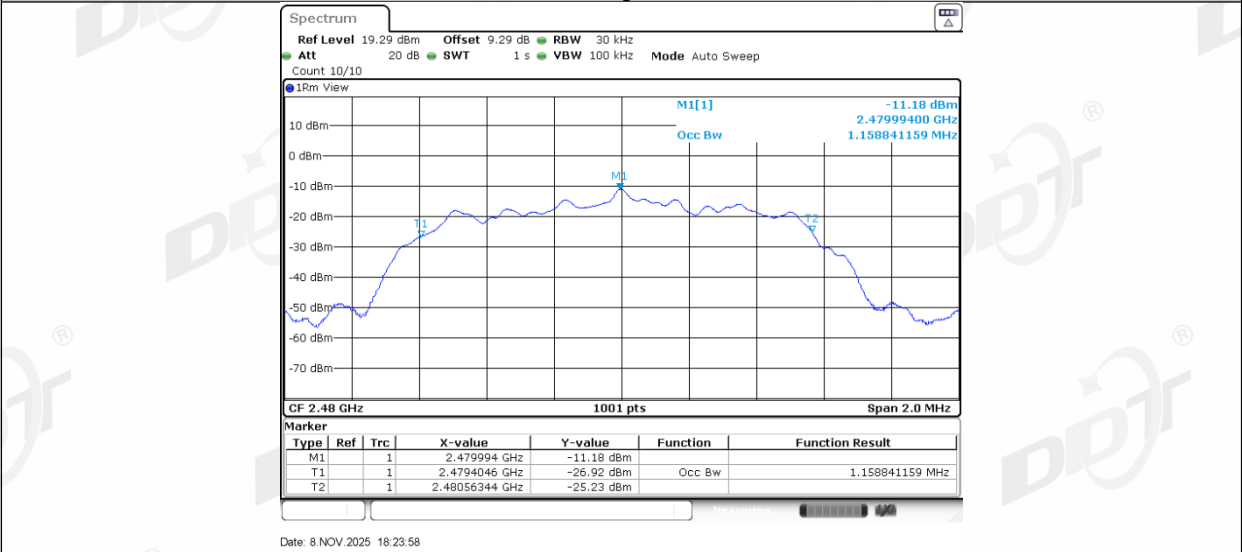
2DH1_Right_2402



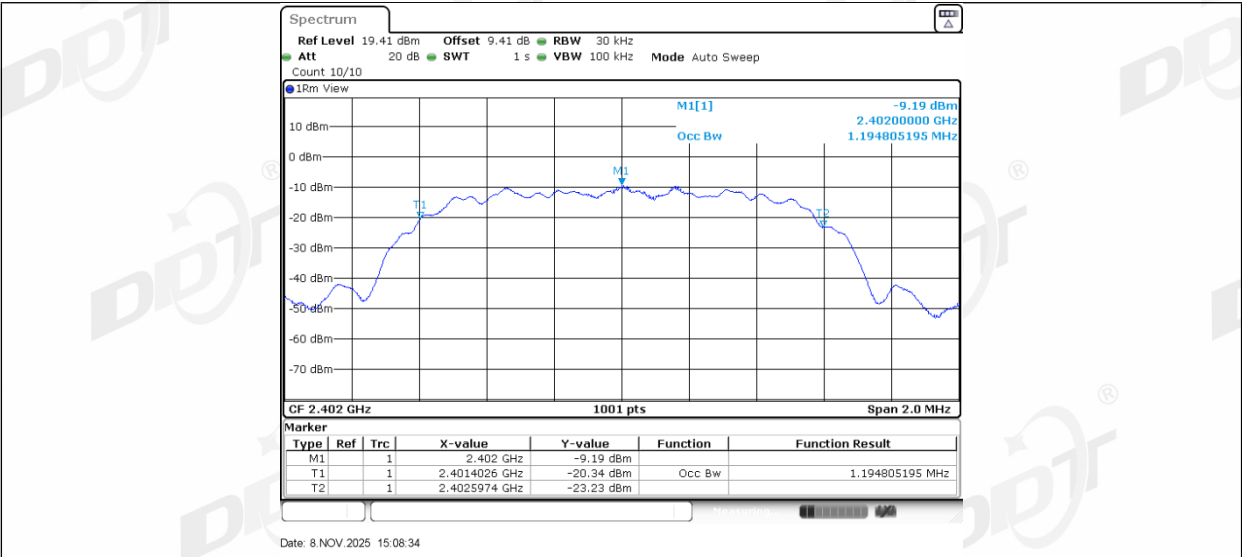
2DH1_Left_2480



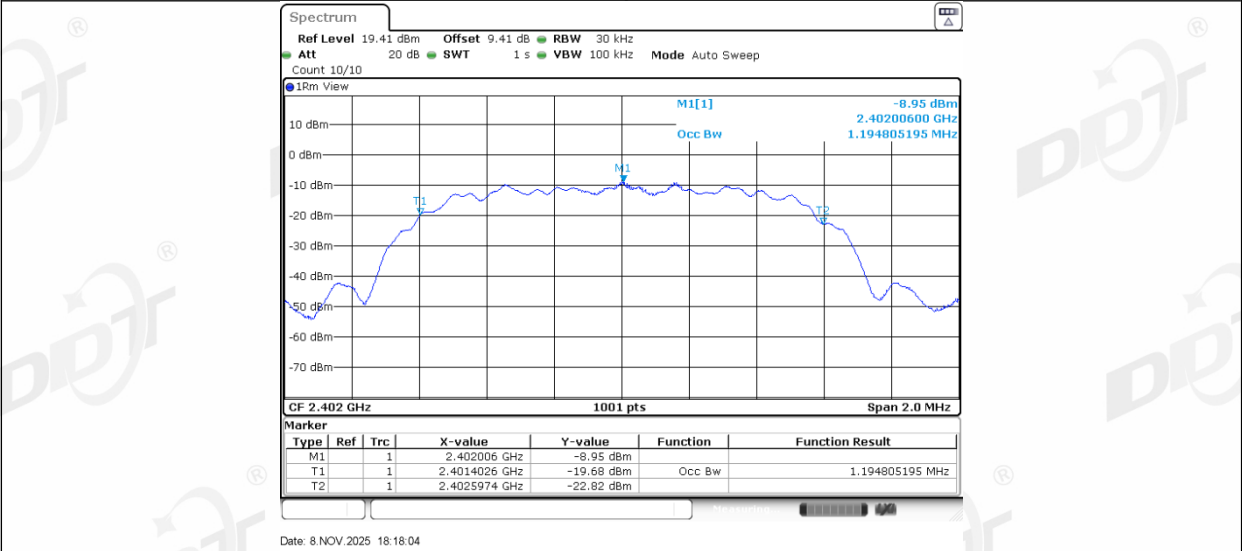
2DH1_Right_2480



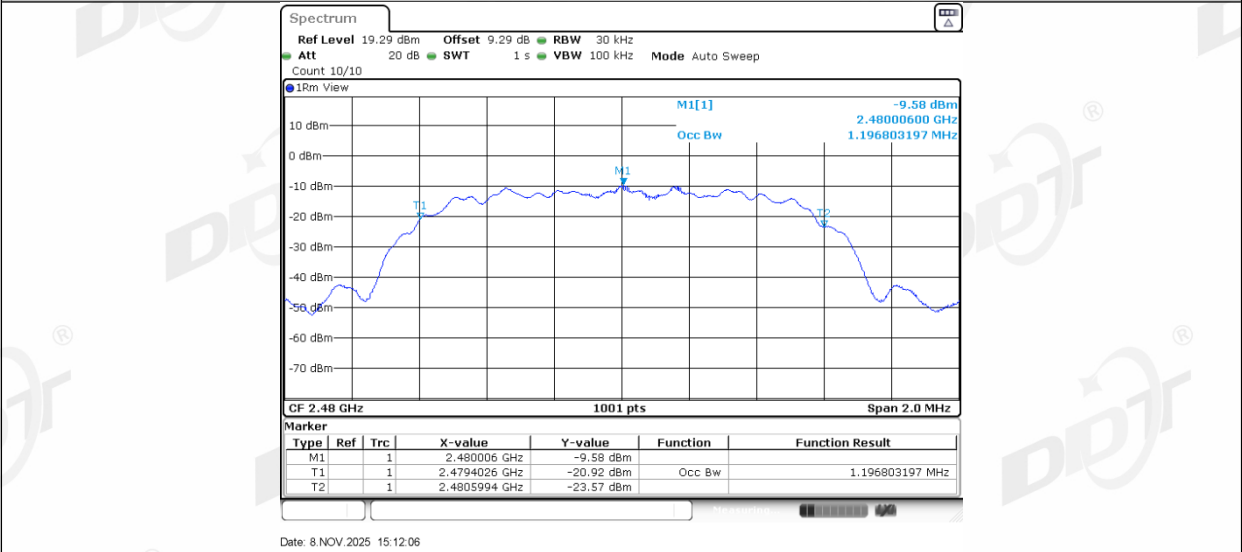
2DH5_Left_2402



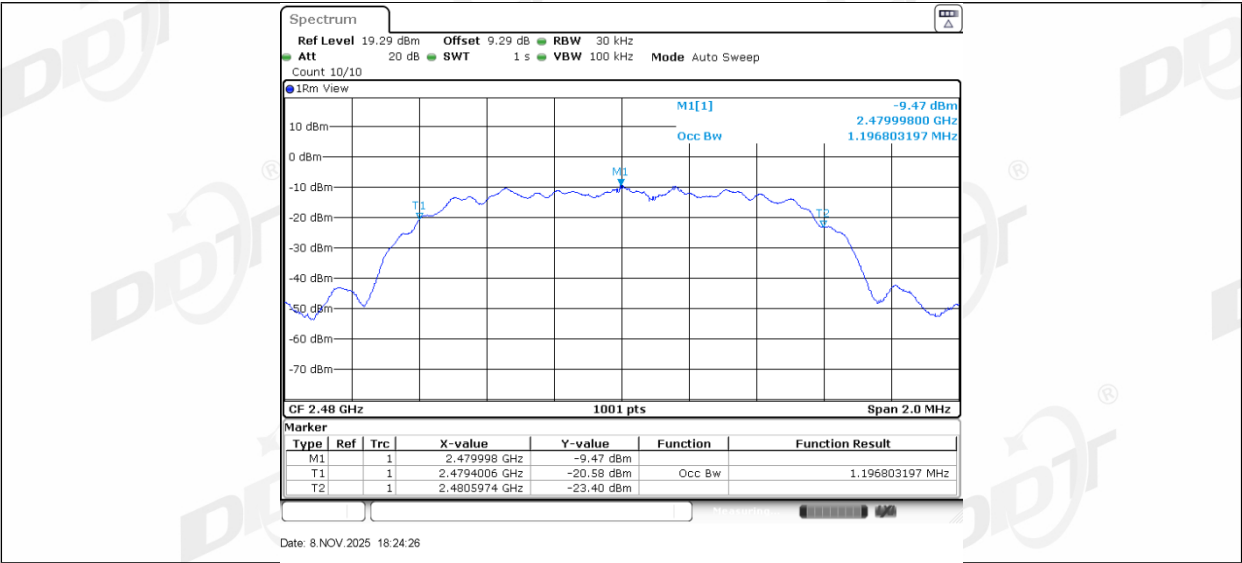
2DH5_Right_2402



2DH5_Left_2480

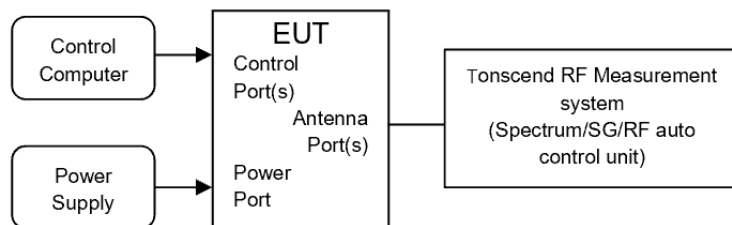


2DH5_Right_2480



6. Accumulated Transmit Time, Frequency Occupation & Hopping Sequence

6.1. Block diagram of test setup



6.2. Limits

The Dwell Time is the time that a particular hopping frequency would be occupied by the transmitter during a single hop. The equipment itself is not required to transmit on this hopping frequency during the Dwell Time.

For this Adaptive frequency hopping systems, the maximum accumulated dwell time on any hopping frequency shall be 400 ms within any period of 400 ms multiplied by the minimum number of hopping frequencies (79) that have to be used.

The Minimum Frequency Occupation Time shall be equal to one dwell time within a period not exceeding four times the product of the dwell time per hop and the number of hopping frequencies in use.

6.3. Test procedure

- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.4.2.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) JS Tonscend test software is used to control the spectrum analyzer to use the following settings:

Accumulated Transmit Time settings:

Centre Frequency:	Equal to the hopping frequency being investigated
Frequency Span:	0 Hz
RBW:	~ 50 % of the Occupied Channel Bandwidth
VBW:	≥ RBW
Detector Mode:	RMS
Sweep time:	Equal to the applicable observation period
Trace Mode	Clear/Write

Frequency Occupation settings:

Centre Frequency:	Equal to the hopping frequency being investigated
Frequency Span:	0 Hz
RBW:	~ 50 % of the Occupied Channel Bandwidth
VBW:	≥ RBW
Detector Mode:	RMS
Sweep time:	4 × dwell time × Actual number of hopping frequencies in use
Trace Mode:	Clear/Write

Hopping Sequence settings:

Start Frequency:	2 400 MHz
Stop Frequency:	2 483,5 MHz
RBW:	~ 50 % of the Occupied Channel Bandwidth
VBW:	≥ RBW
Detector Mode:	Peak
Sweep time:	1 s
Number of sweep points:	~ 400 / Occupied Channel Bandwidth (MHz); the number of sweep points may need to be further increased in case of overlapping channels
Trace Mode :	Max Hold

6.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

Accumulated Transmit Time

Test Mode	Antenna	Channel	Result [ms]	Limit [ms]	Verdict
DH5	Left	Hop_2402	269.645	400	PASS
	Right	Hop_2402	227.513	400	PASS
	Left	Hop_2480	183.274	400	PASS
	Right	Hop_2480	241.206	400	PASS
2DH5	Left	Hop_2402	223.300	400	PASS
	Right	Hop_2402	228.566	400	PASS
	Left	Hop_2480	239.099	400	PASS
	Right	Hop_2480	235.939	400	PASS

Frequency Occupation

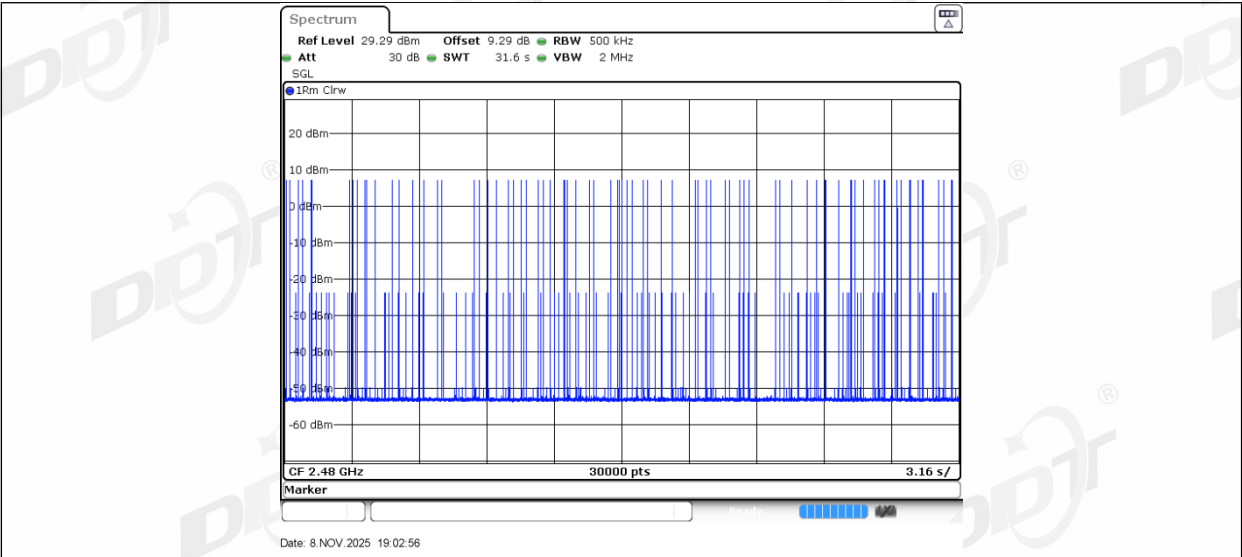
Test Mode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Left	Hop_2402	2	1	PASS
	Right	Hop_2402	1	1	PASS
	Left	Hop_2480	5	1	PASS
	Right	Hop_2480	2	1	PASS
2DH5	Left	Hop_2402	2	1	PASS
	Right	Hop_2402	6	1	PASS
	Left	Hop_2480	4	1	PASS
	Right	Hop_2480	3	1	PASS

Hopping Sequence

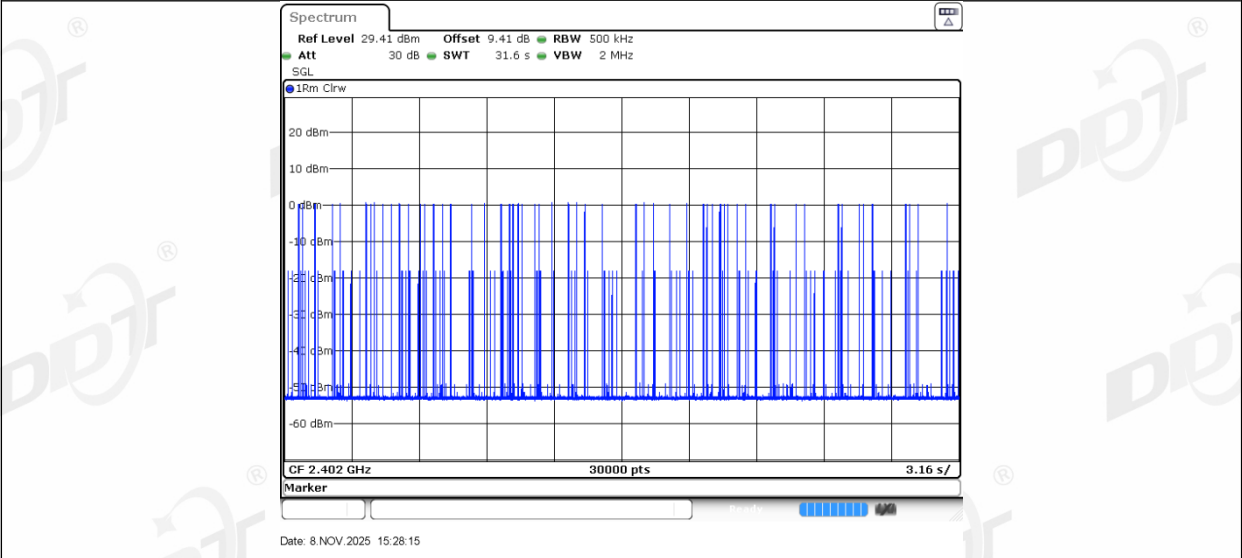
Test Mode	Antenna	Channel	Hop. [Num.]	Limit [Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Left	Hop_2402	79	15	95.60	70	PASS
	Right	Hop_2402	79	15	95.60	70	PASS
	Left	Hop_2480	79	15	95.60	70	PASS
	Right	Hop_2480	79	15	95.60	70	PASS
2DH5	Left	Hop_2402	79	15	96.10	70	PASS
	Right	Hop_2402	79	15	96.00	70	PASS
	Left	Hop_2480	79	15	96.20	70	PASS
	Right	Hop_2480	79	15	96.20	70	PASS

6.5. Test graphs

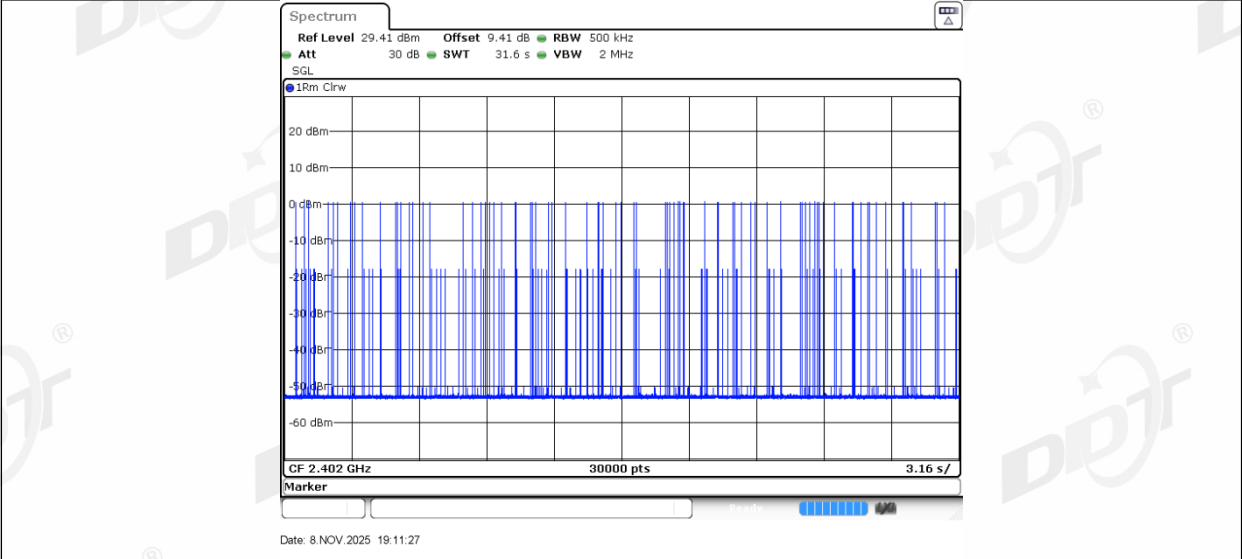




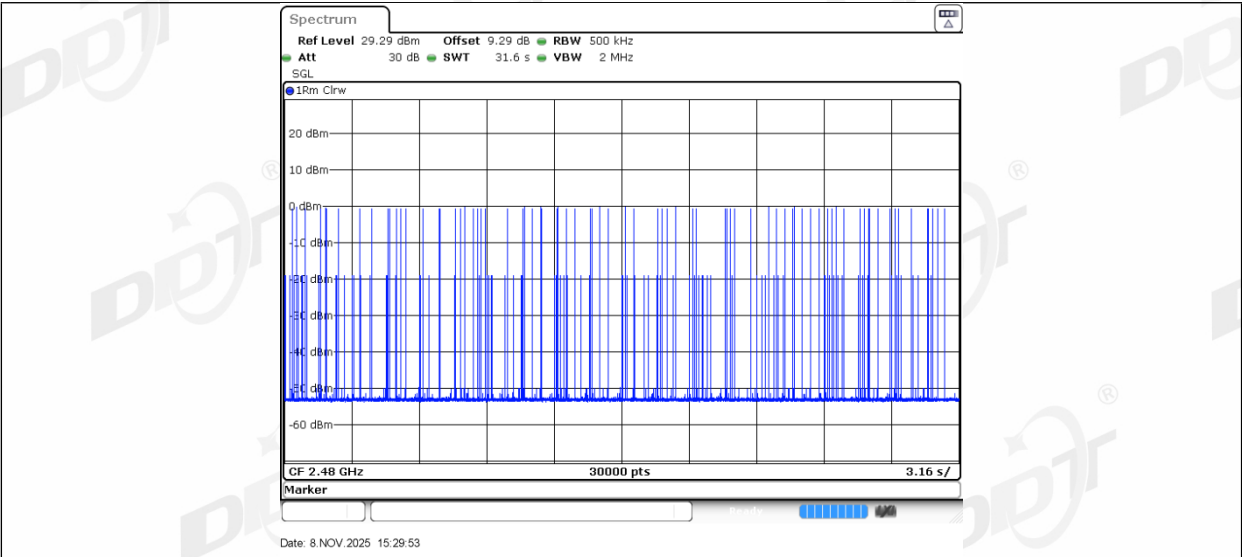
2DH5_Left_Hop_2402



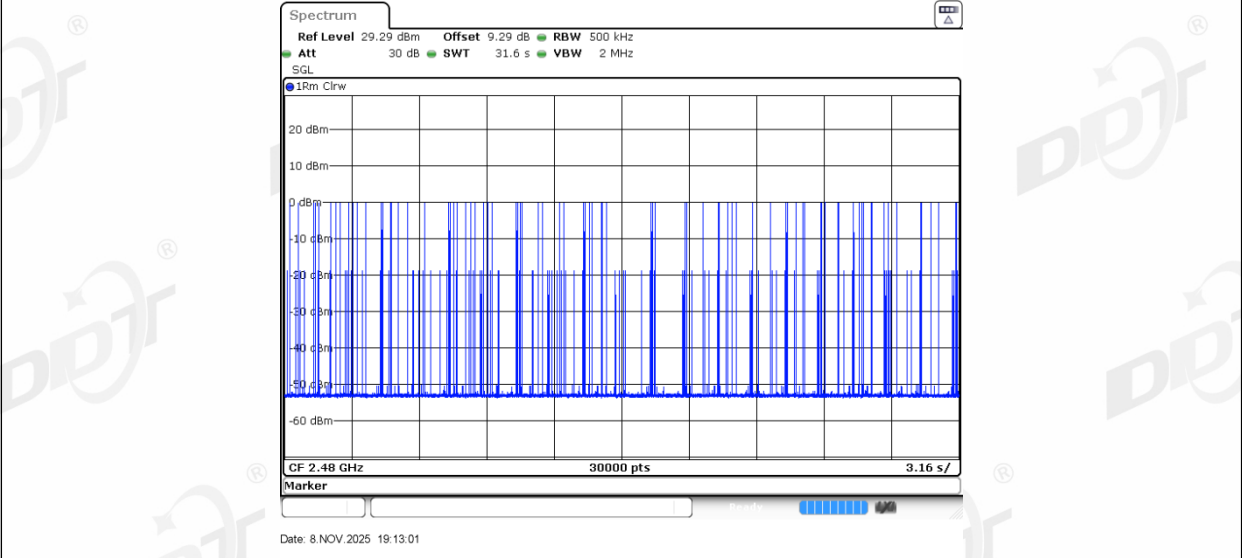
2DH5_Right_Hop_2402



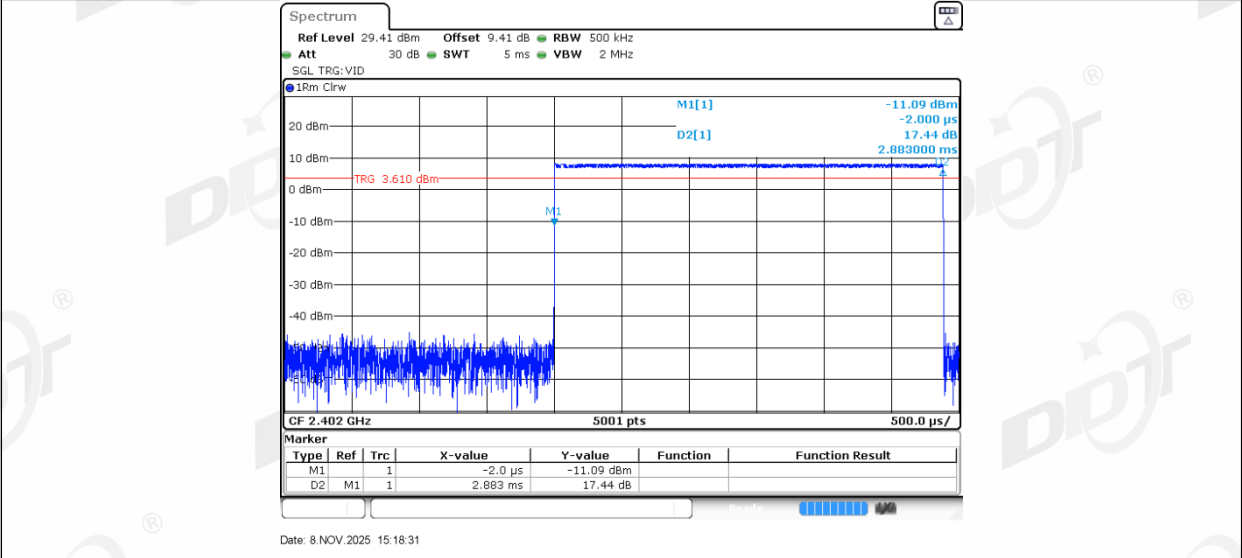
2DH5_Left_Hop_2480

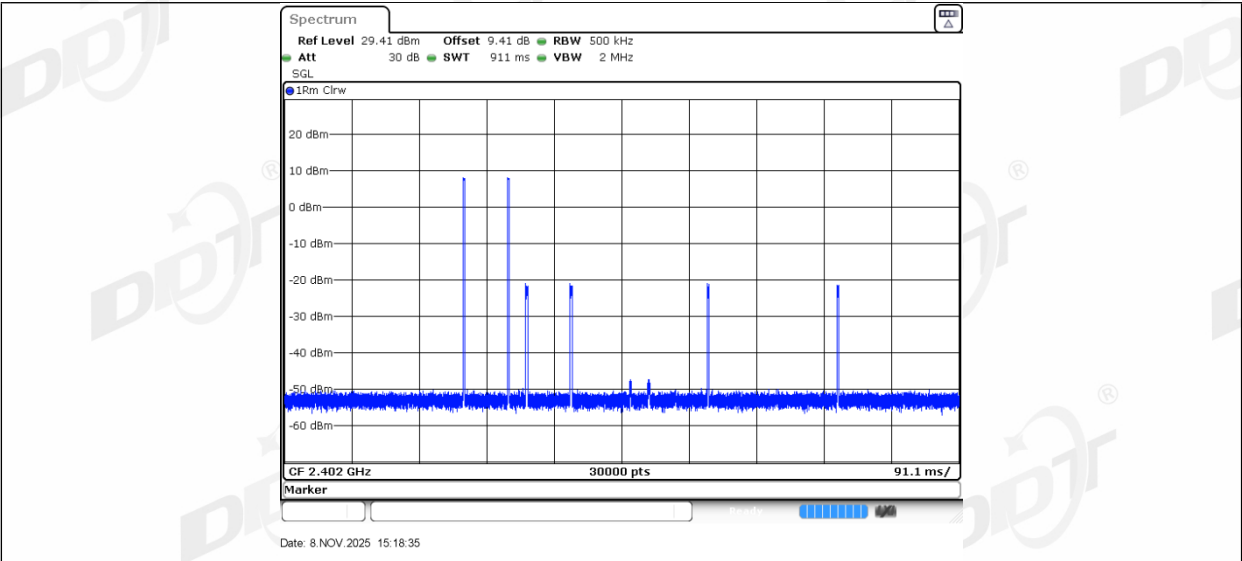


2DH5_Right_Hop_2480

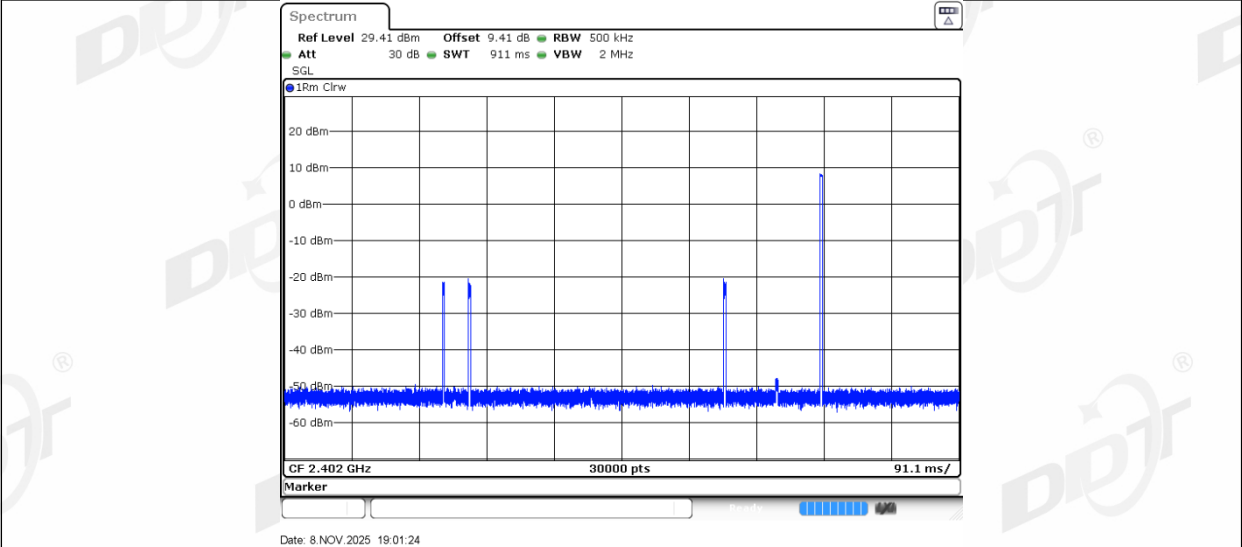
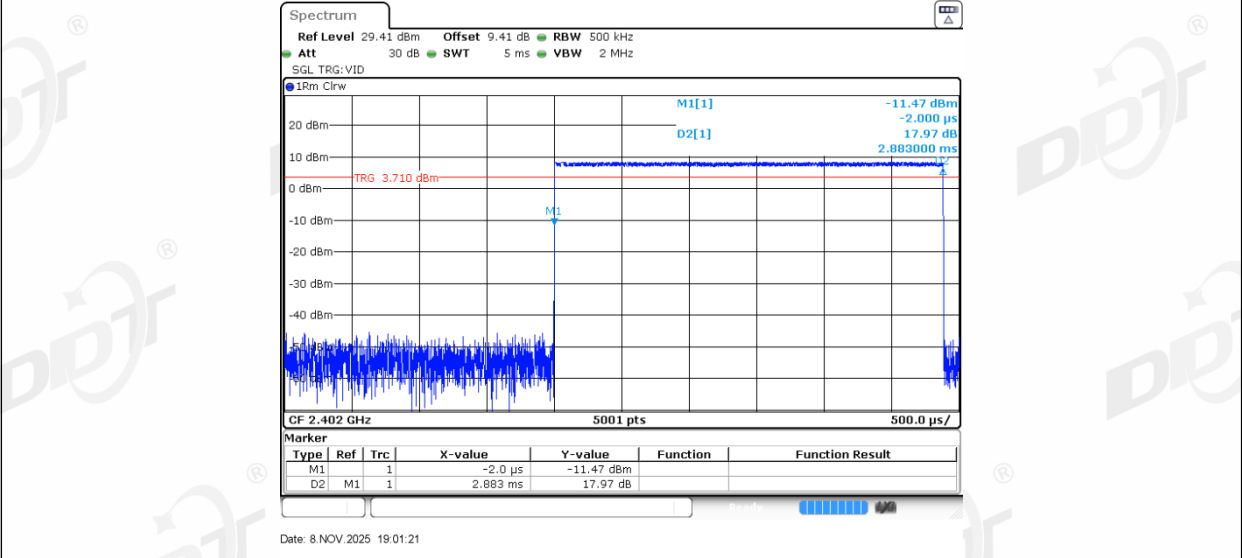


DH5_Left_Hop_2402

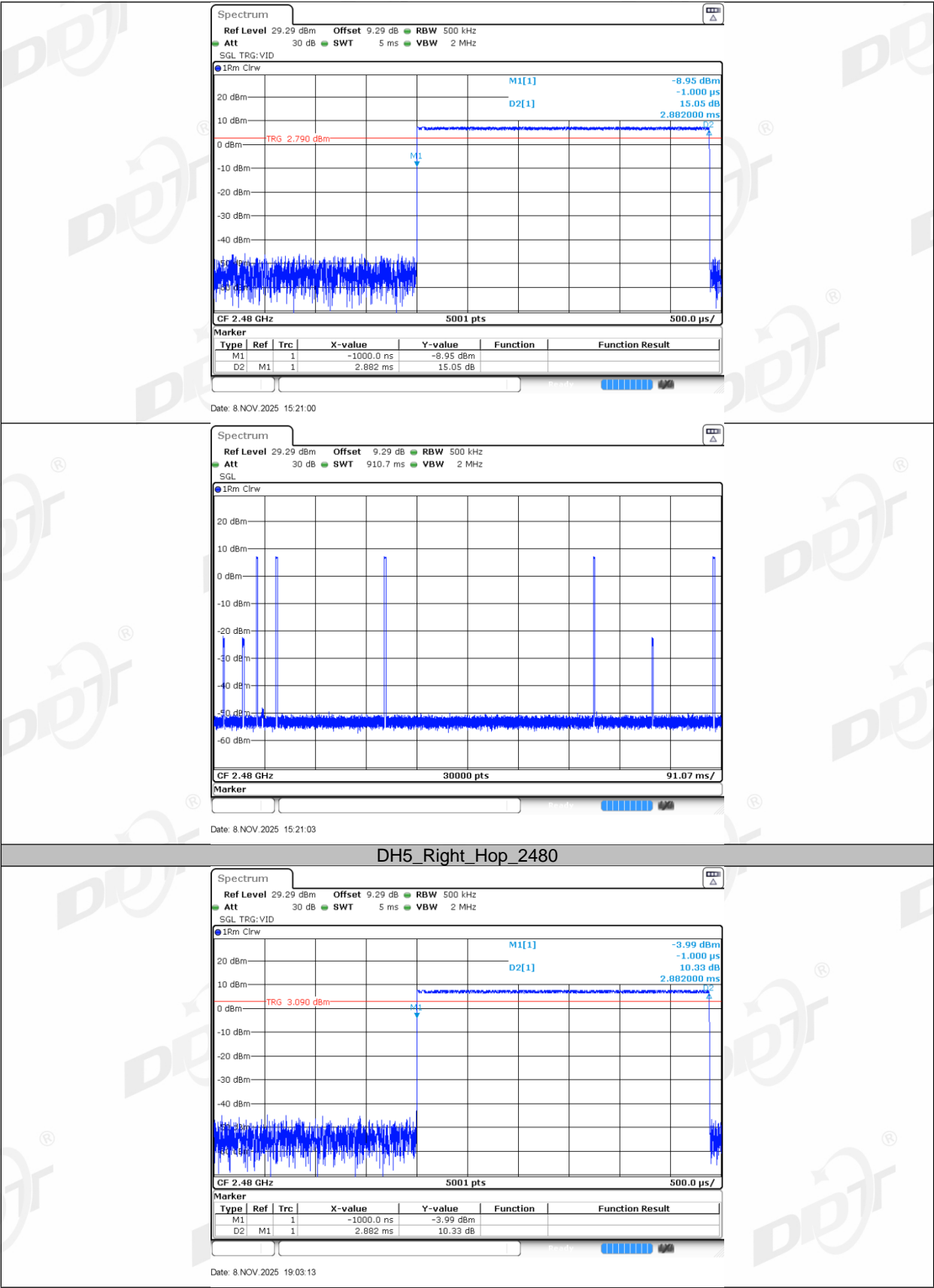


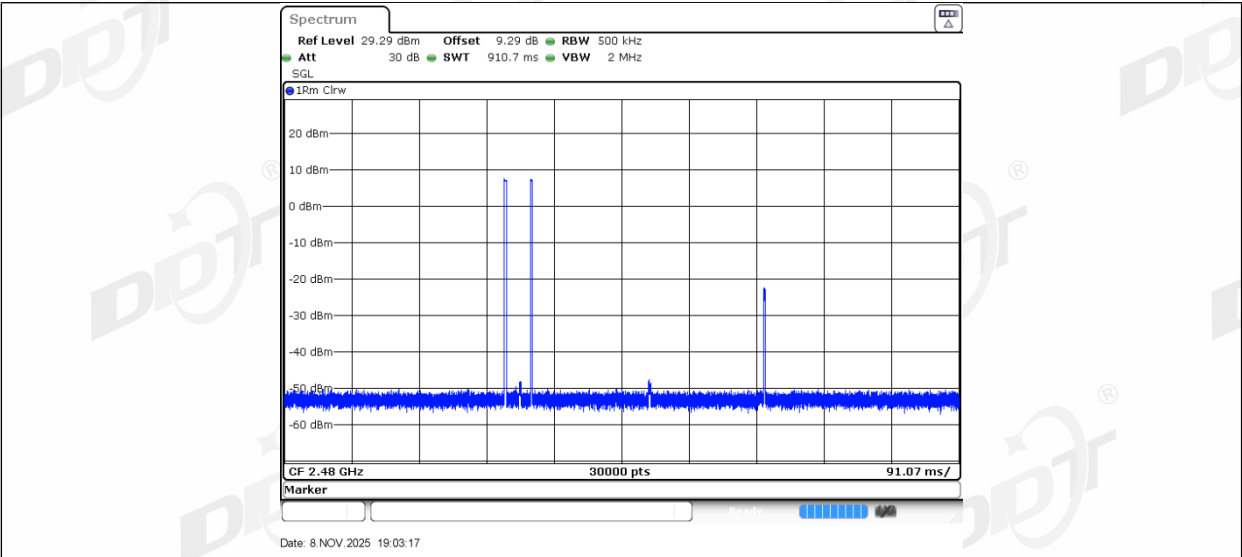


DH5_Right_Hop_2402

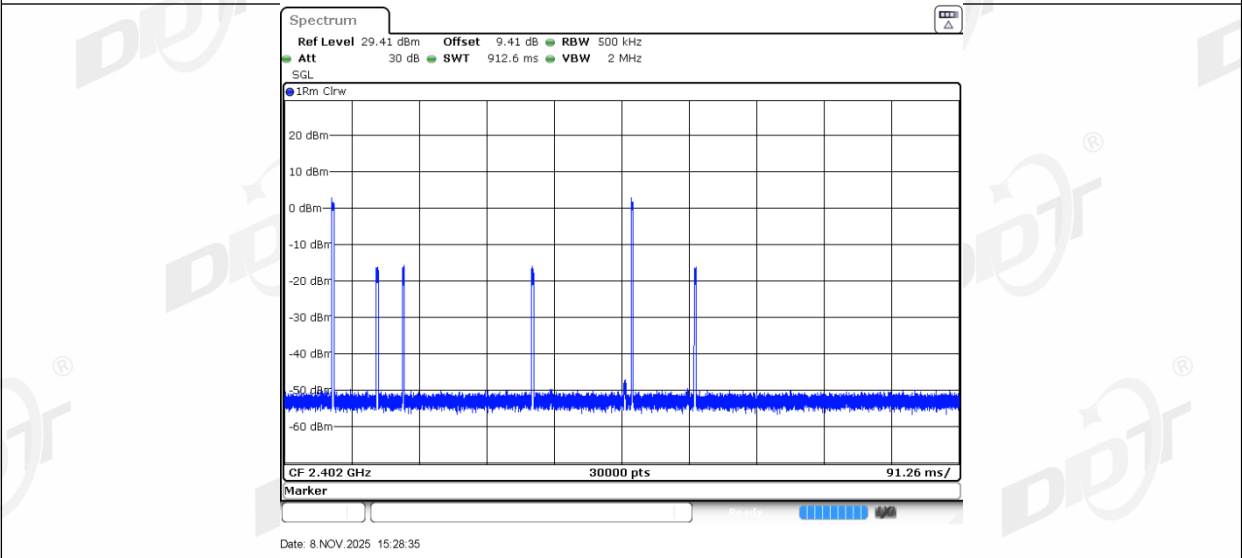
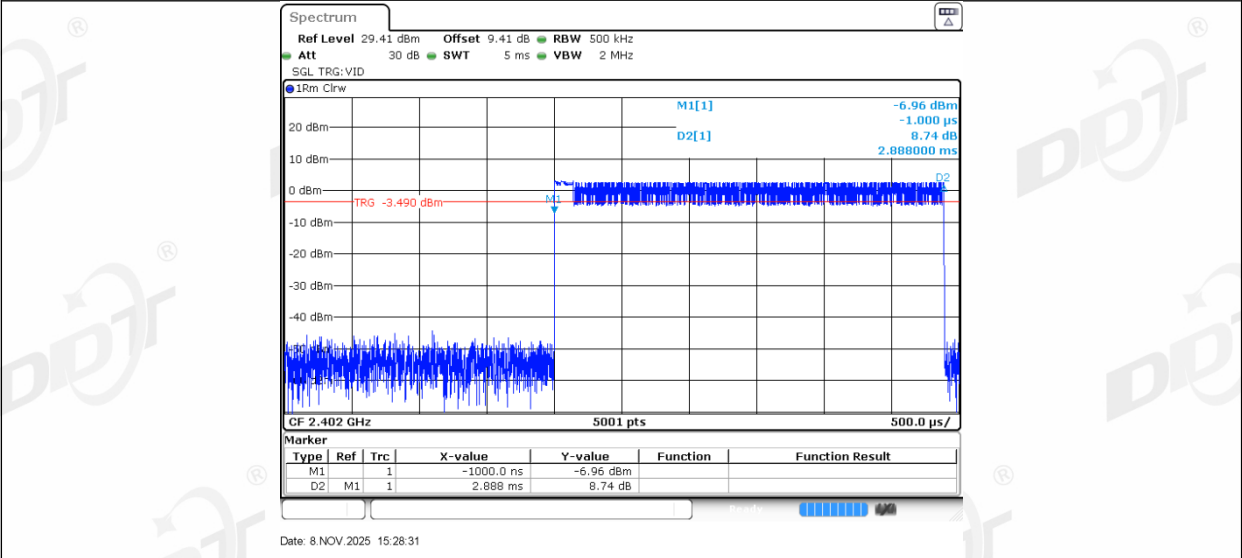


DH5_Left_Hop_2480

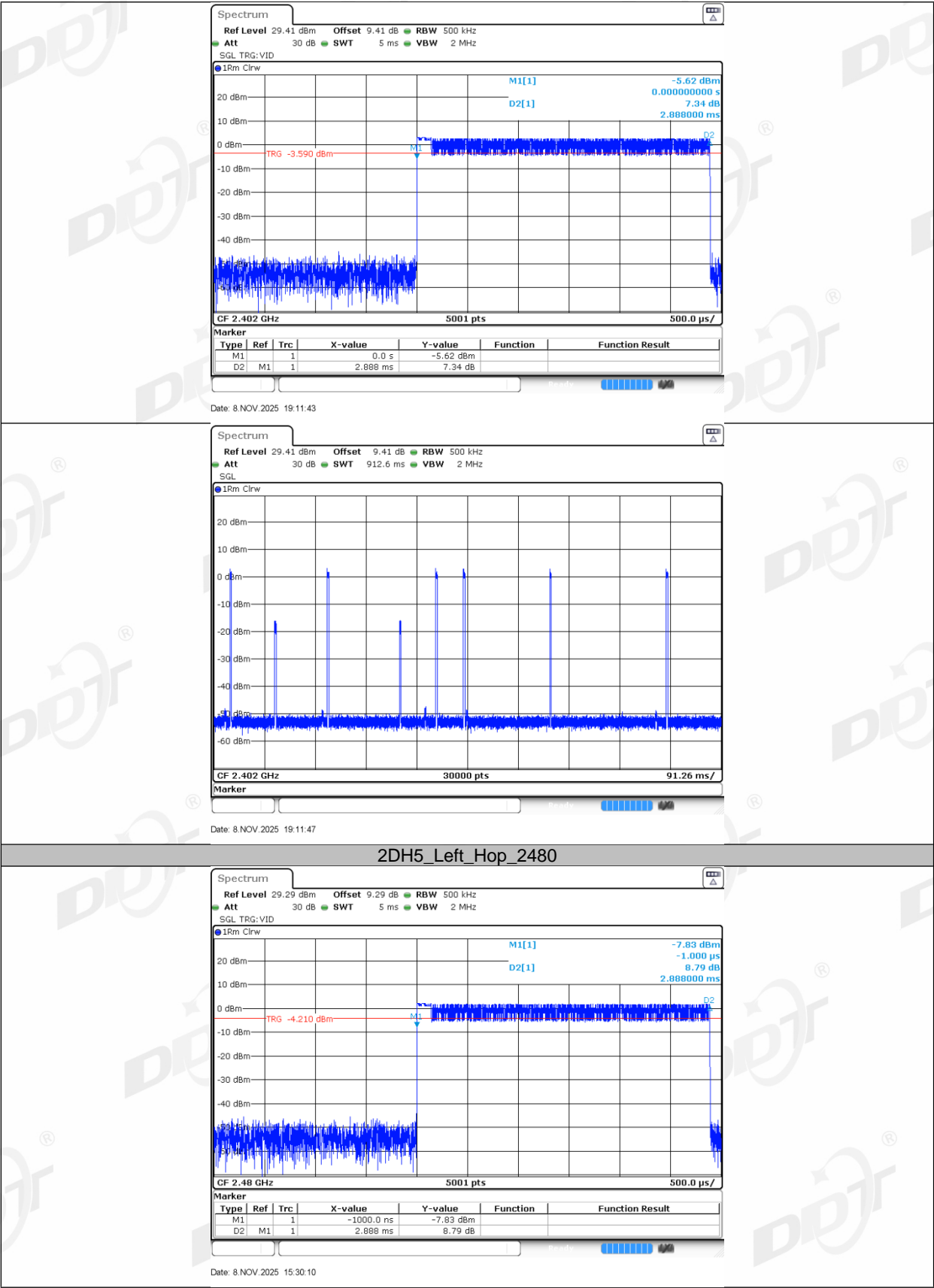


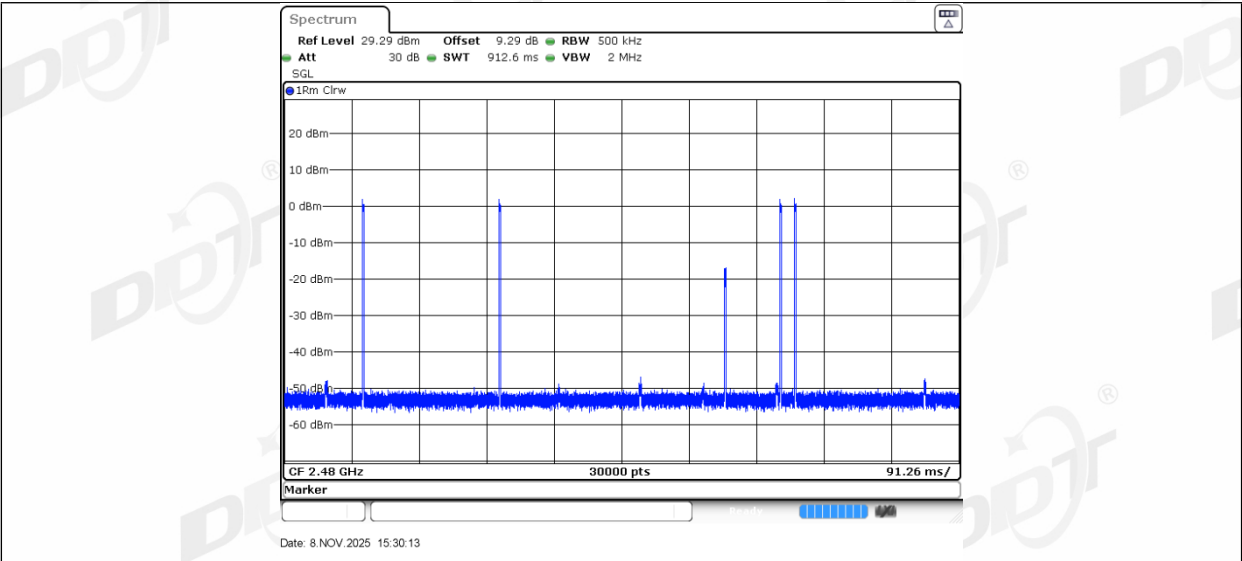


2DH5_Left_Hop_2402

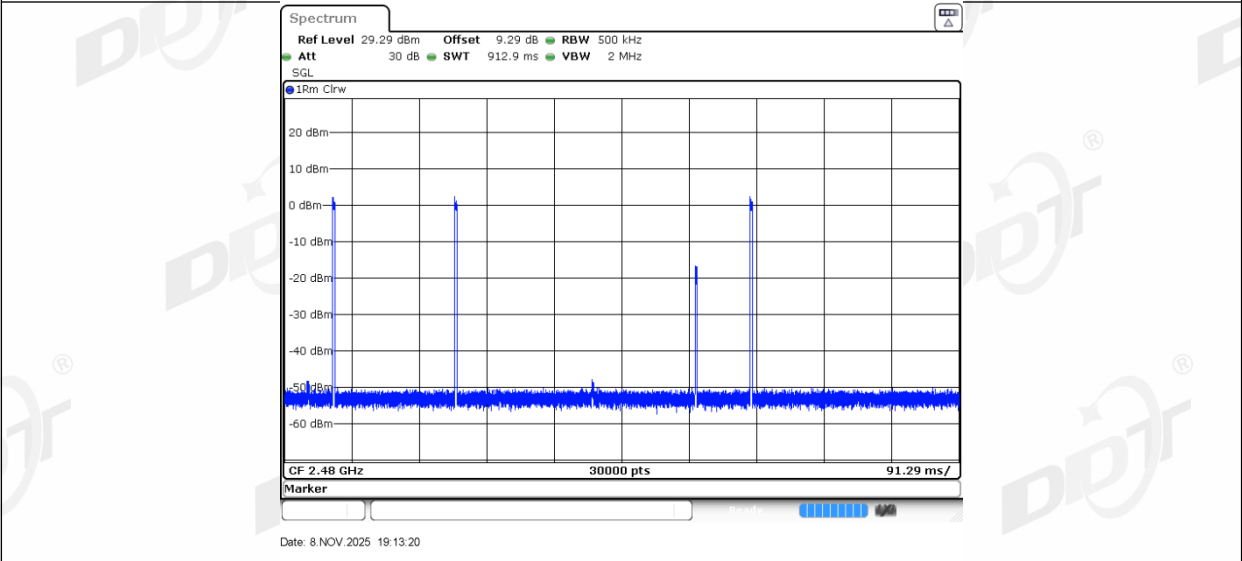
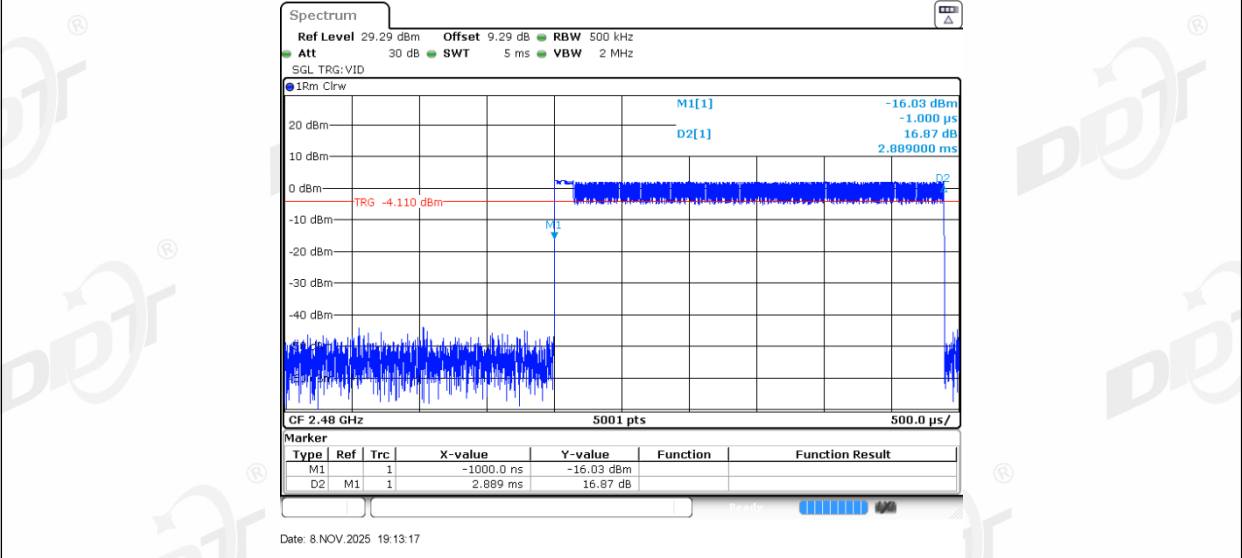


2DH5_Right_Hop_2402

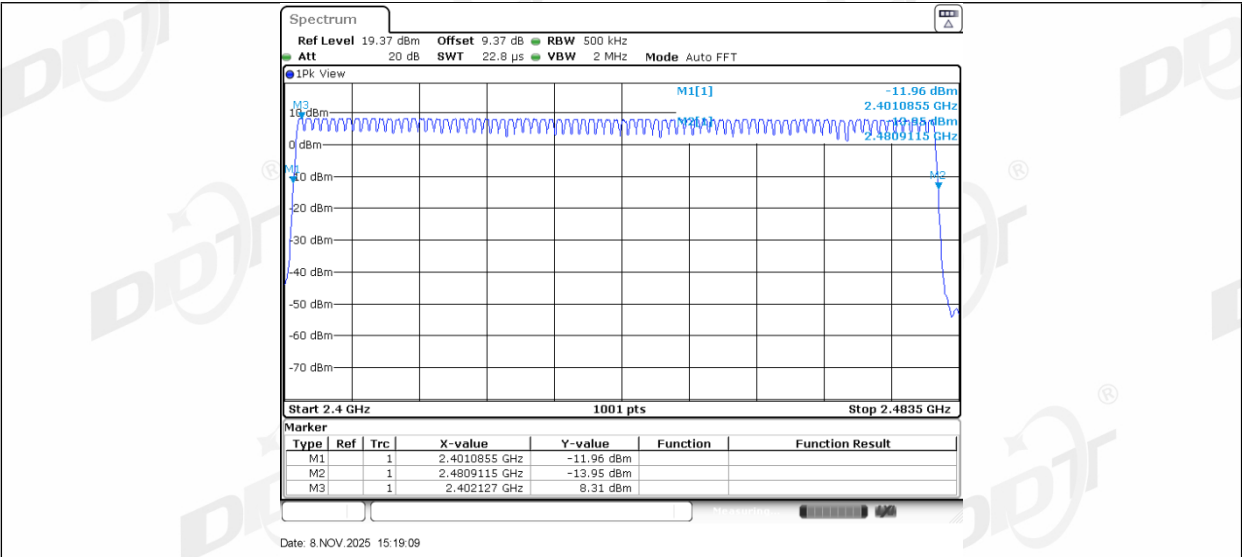




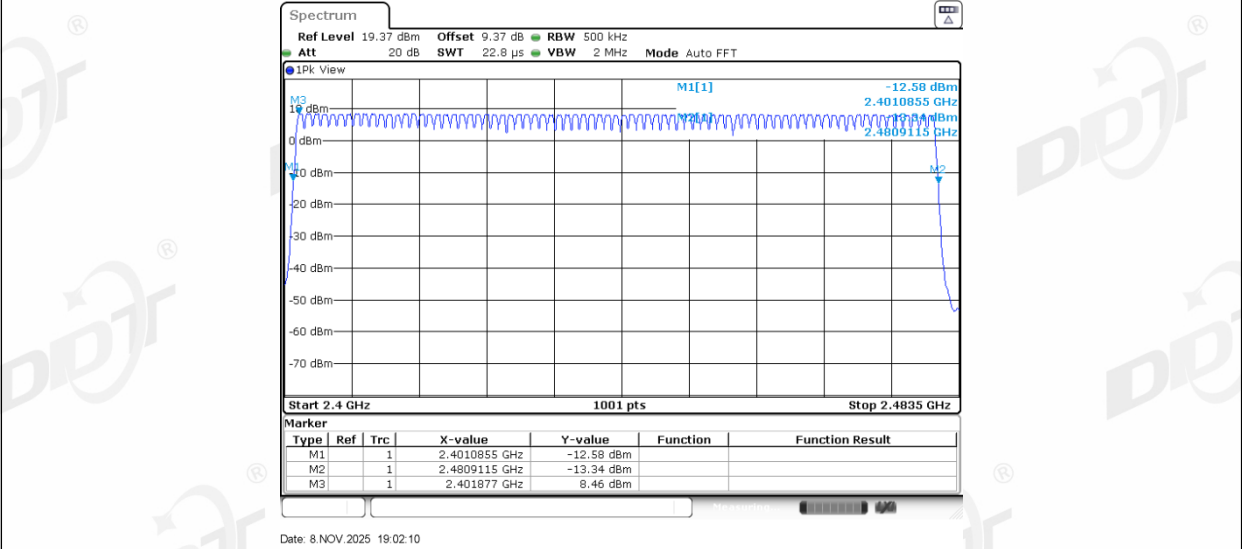
2DH5_Right_Hop_2480



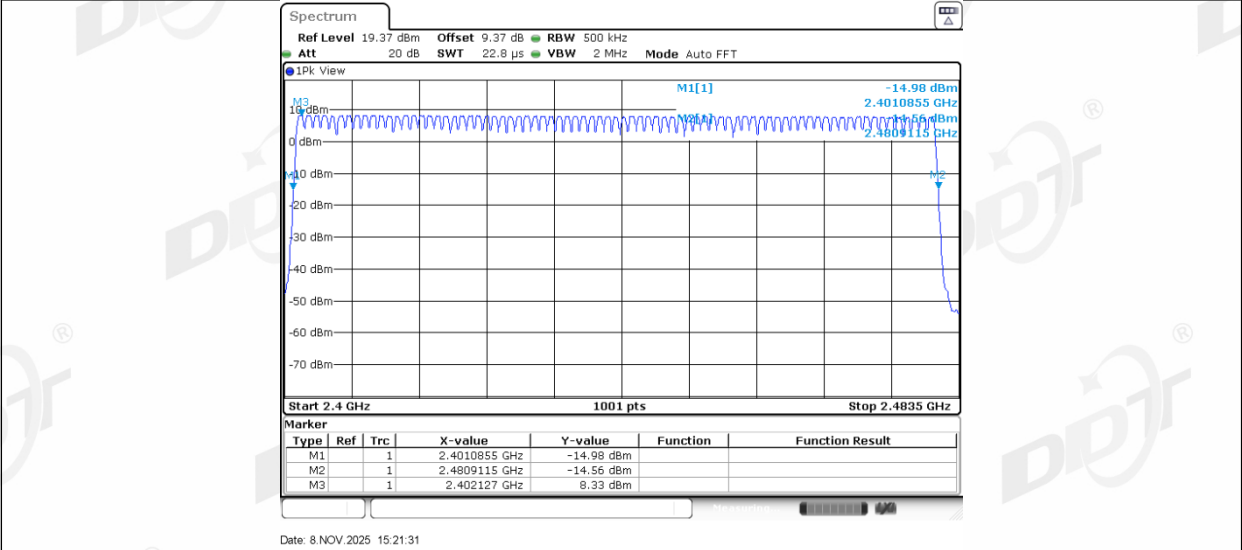
DH5_Left_Hop_2402



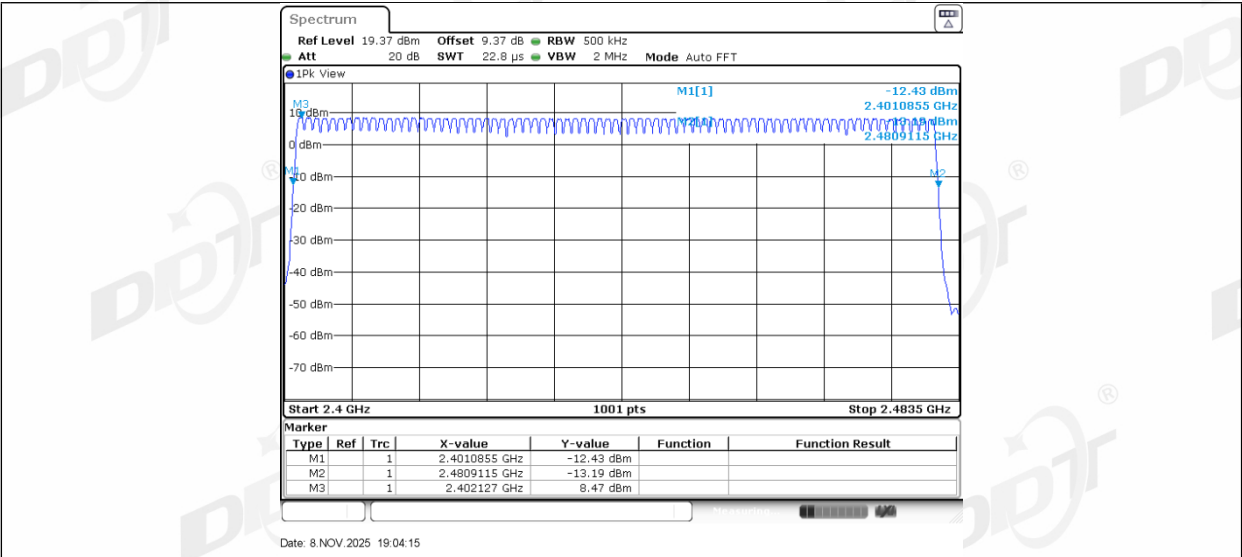
DH5_Right_Hop_2402



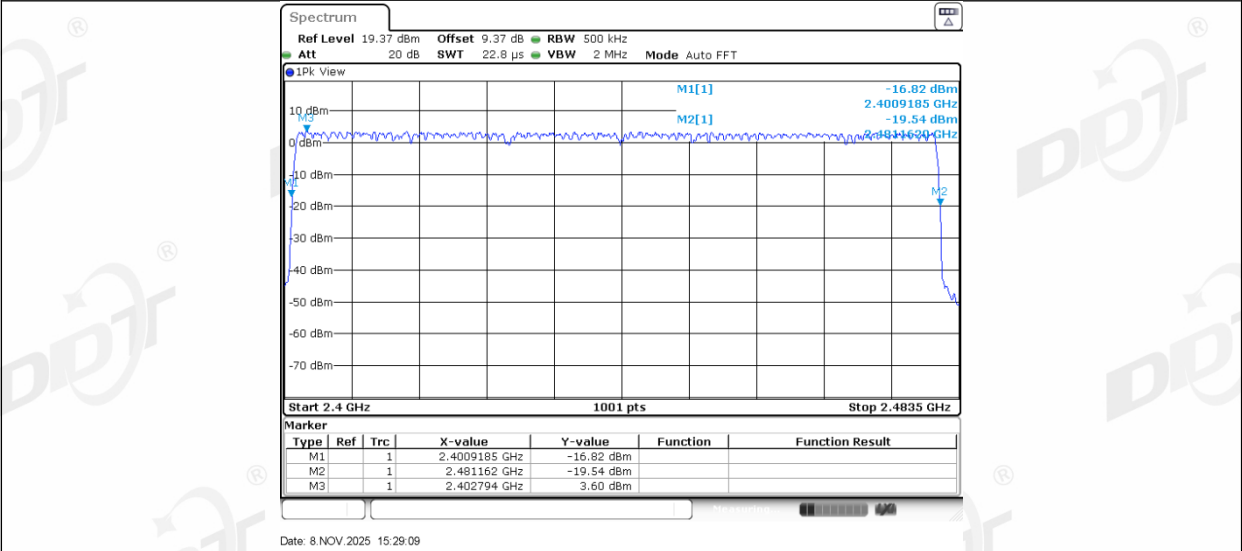
DH5_Left_Hop_2480



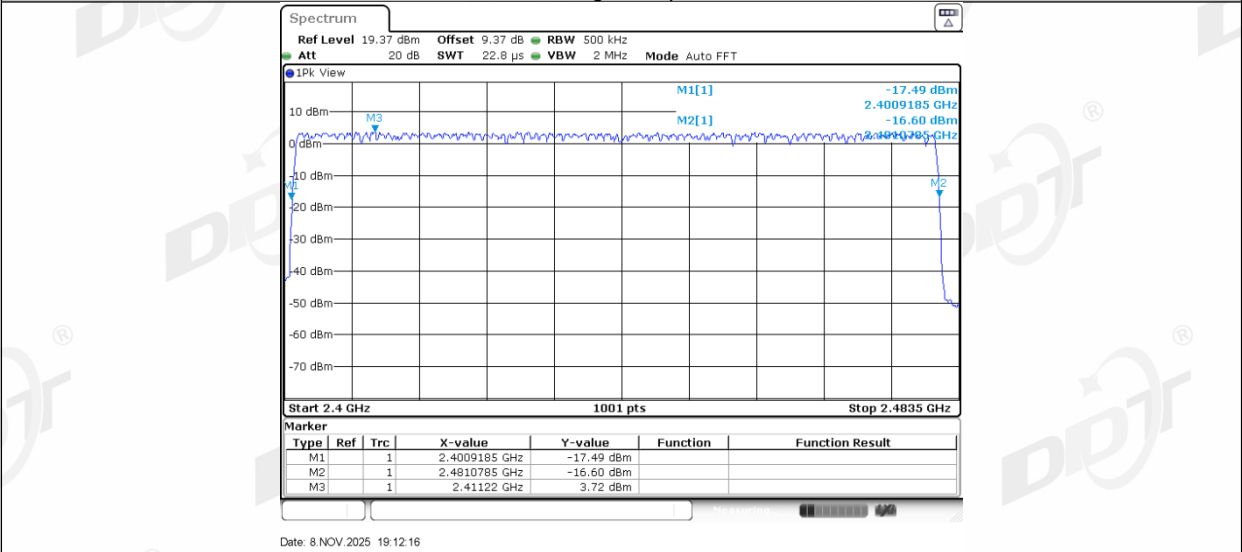
DH5_Right_Hop_2480



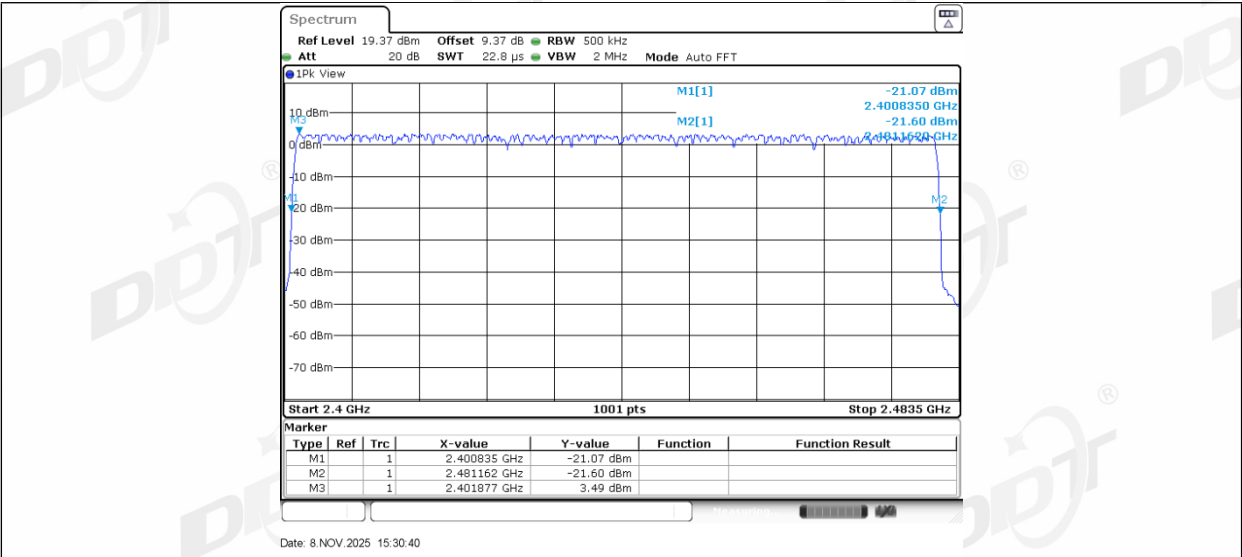
2DH5_Left_Hop_2402



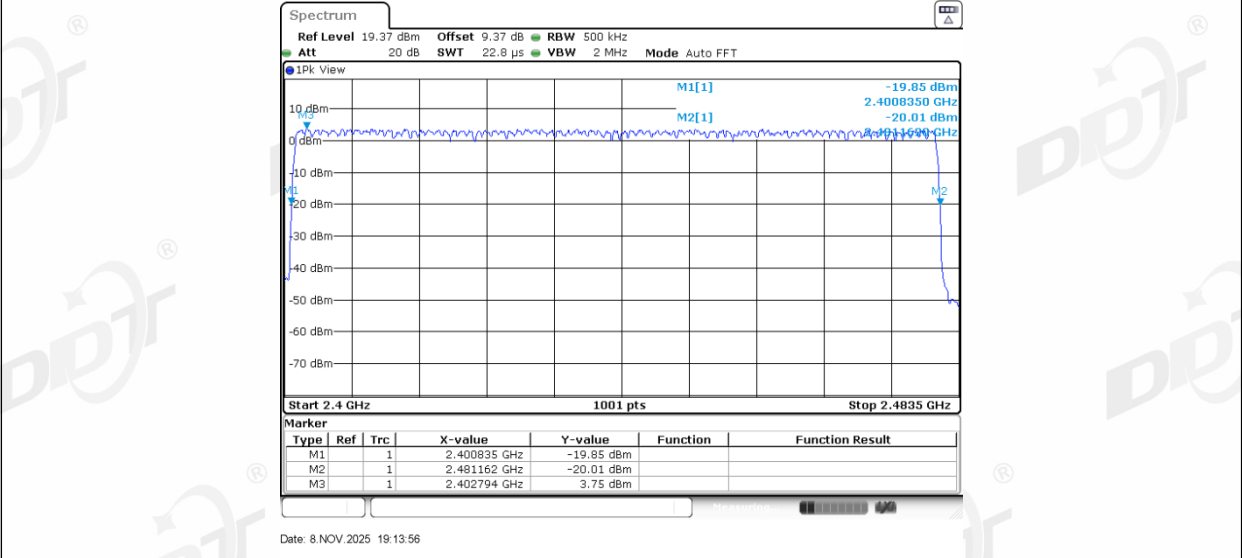
2DH5_Right_Hop_2402



2DH5_Left_Hop_2480

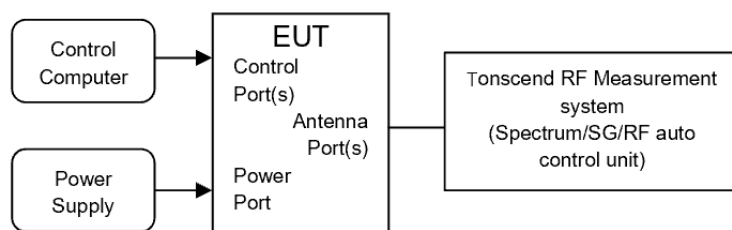


2DH5_Right_Hop_2480



7. Hopping Frequency Separation

7.1. Block diagram of test setup



7.2. Limits

- (1) For adaptive frequency hopping systems the minimum hopping frequency separation shall be 100 kHz.
- (2) For equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for non-adaptive Frequency Hopping equipment operating in a mode where the RF Output power is less than 10 dBm e.i.r.p. only the minimum Hopping Frequency Separation of 100 kHz applies.

7.3. Test procedure

- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.5.2.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in normal hopping mode.
- (4) Set the spectrum analyzer as follows:

Centre Frequency:	Centre of the two adjacent hopping frequencies
Frequency Span:	Sufficient to see the complete power envelope of both hopping frequencies
RBW:	1 % of the Span
VBW:	3 × RBW
Detector Mode:	Max Peak
Sweep time:	Auto
Trace Mode:	Max Hold

When the trace has completed, Use the marker-delta function to determine the Hopping Frequency Separation between the peaks of the two adjacent hopping frequencies.

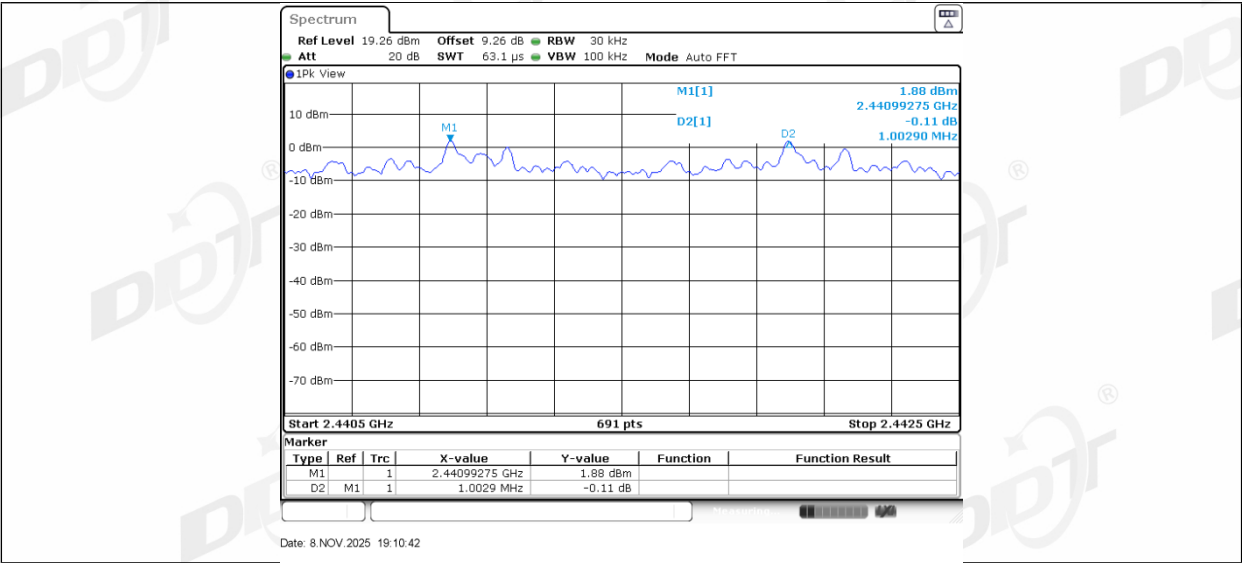
7.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
DH5	Left	Hop	1	0.100	PASS
	Right	Hop	1	0.100	PASS
2DH5	Left	Hop	1.003	0.100	PASS
	Right	Hop	1.003	0.100	PASS

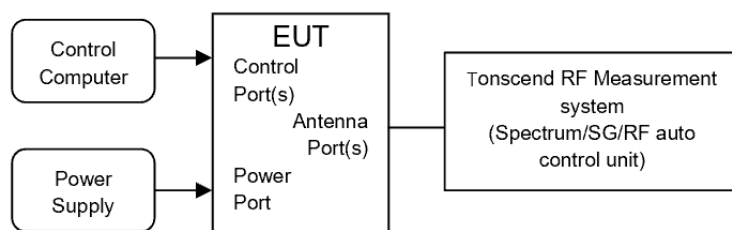
7.5. Test graphs





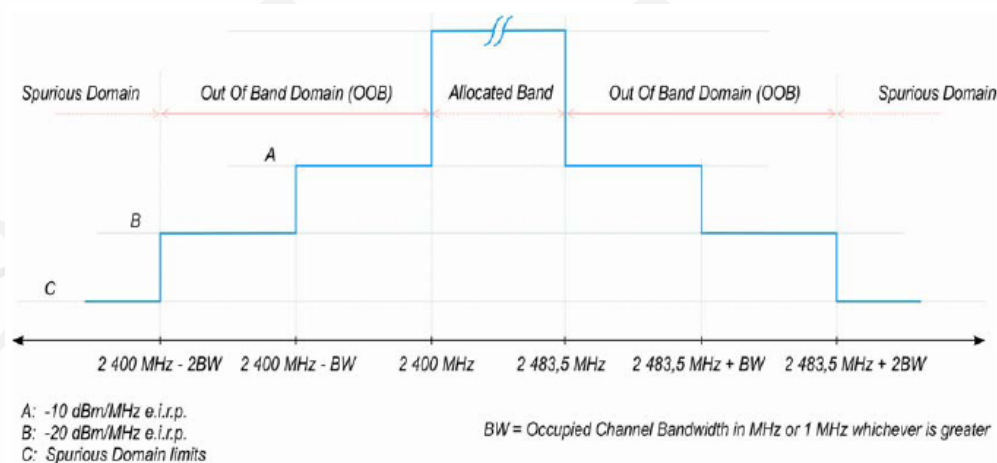
8. Transmitter Unwanted Emissions in The Out-of-band Domain

8.1. Block diagram of test setup



8.2. Limits

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask below:



8.3. Test procedure

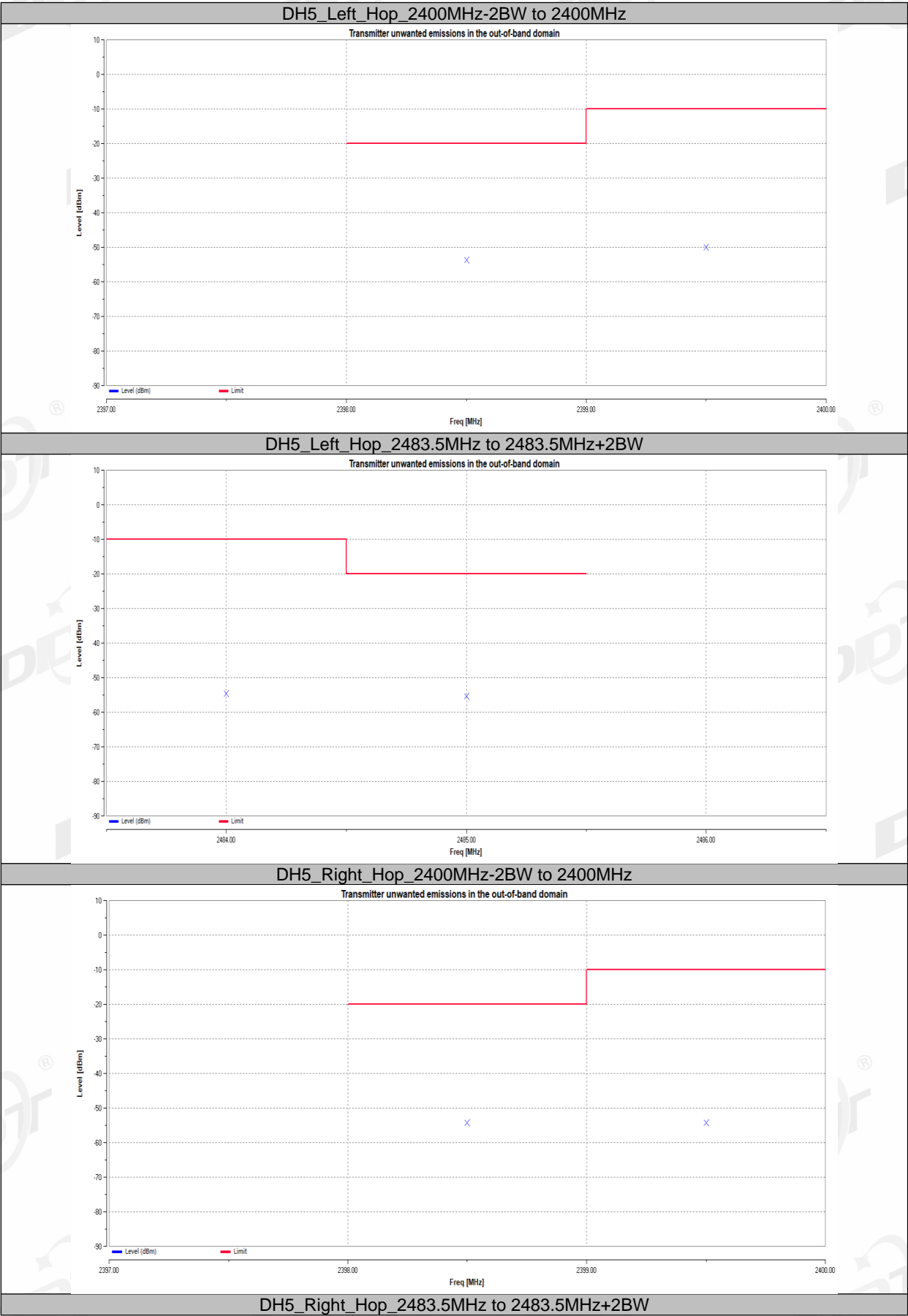
- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.8.2.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Configure EUT work in normal hopping mode.

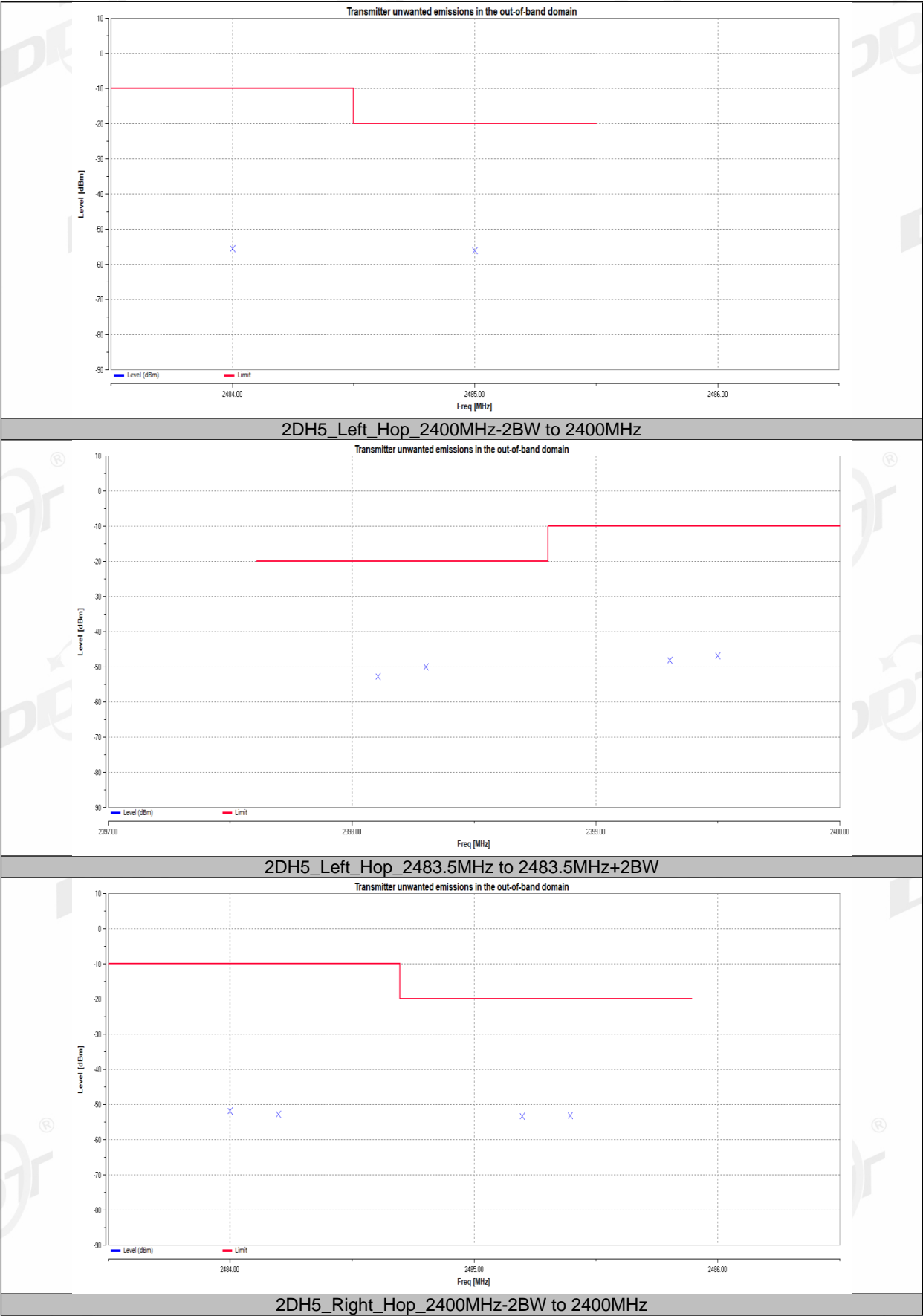
8.4. Test result

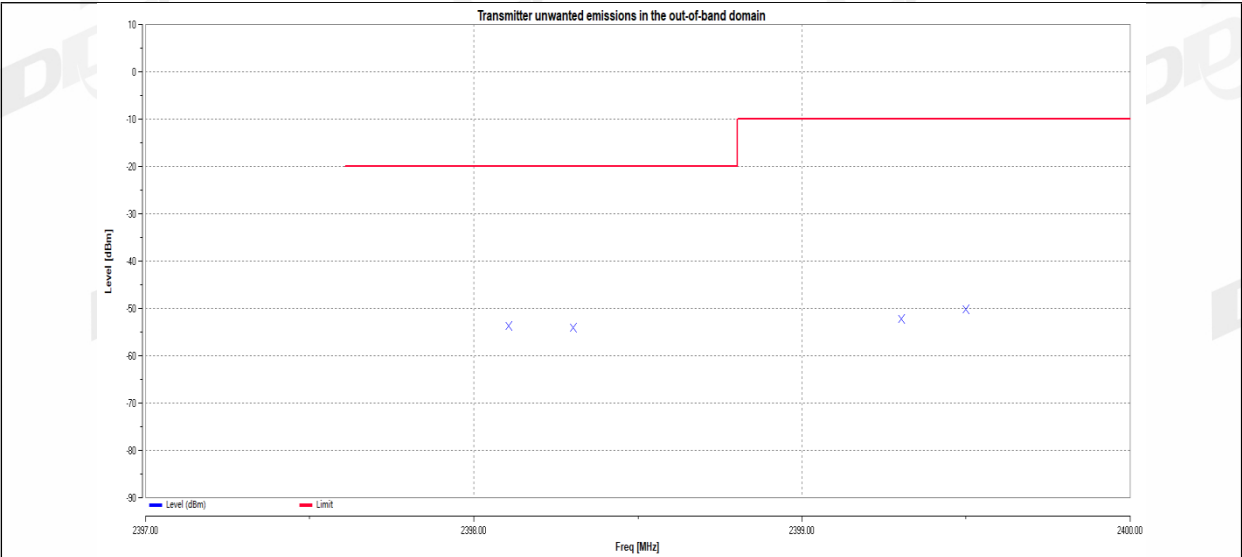
Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

Test Mode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Left	Hop	2398.5	-53.75	-20.00	PASS
			2399.5	-50.03	-10.00	PASS
			2484	-54.57	-10.00	PASS
			2485	-55.38	-20.00	PASS
	Right	Hop	2398.5	-54.18	-20.00	PASS
			2399.5	-54.32	-10.00	PASS
			2484	-55.63	-10.00	PASS
			2485	-56.06	-20.00	PASS
2DH5	Left	Hop	2398.1064	-52.80	-20.00	PASS
			2398.3032	-50.07	-20.00	PASS
			2399.3032	-48.15	-10.00	PASS
			2399.5	-46.79	-10.00	PASS
			2484	-51.85	-10.00	PASS
			2484.1968	-52.84	-10.00	PASS
			2485.1968	-53.30	-20.00	PASS
			2485.3936	-53.06	-20.00	PASS
	Right	Hop	2398.1064	-53.67	-20.00	PASS
			2398.3032	-54.06	-20.00	PASS
			2399.3032	-52.29	-10.00	PASS
			2399.5	-50.15	-10.00	PASS
			2484	-53.84	-10.00	PASS
			2484.1968	-54.80	-10.00	PASS
			2485.1968	-54.54	-20.00	PASS
			2485.3936	-54.35	-20.00	PASS

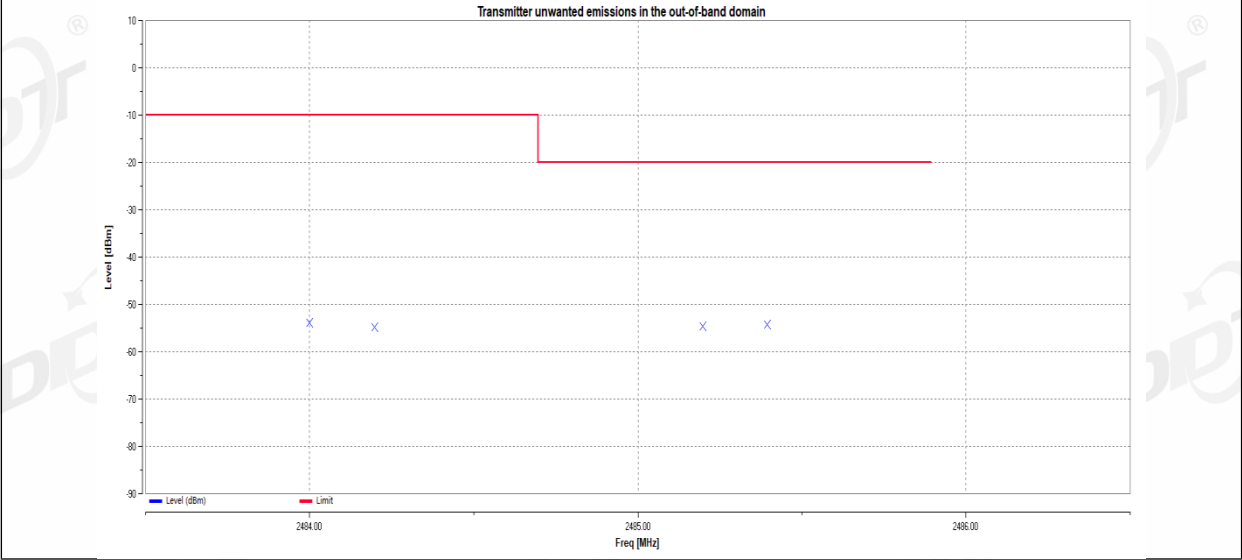
8.5. Test graphs





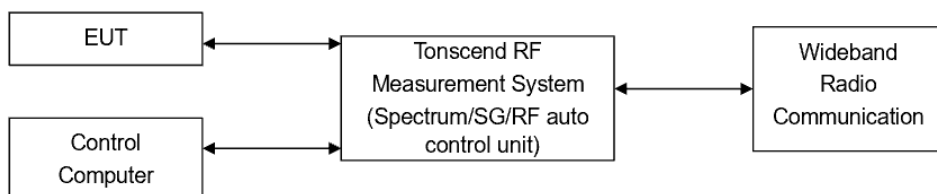


2DH5_Right_Hop_2483.5MHz to 2483.5MHz+2BW



9. Receiver Blocking

9.1. Block diagram of test setup



9.2. Limits

This EUT belongs to:

☐ **Receiver category 1**

The following equipment shall be categorized as receiver category 1 equipment:

- Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p.

NOTE: Non-adaptive equipment is categorized as receiver category 2 or receiver category 3.

☒ **Receiver category 2**

The following equipment shall be categorized as receiver category 2 equipment:

- non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % (irrespective of the maximum RF output power); or
- equipment (adaptive or non-adaptive) with a maximum RF output power greater than 0 dBm e.i.r.p. and less than or equal to 10 dBm e.i.r.p.

☐ **Receiver category 3**

The following equipment shall be categorized as receiver category 3 equipment:

- non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % (irrespective of the maximum RF output power); or
- equipment (adaptive or non-adaptive) with a maximum RF output power of 0 dBm e.i.r.p.

Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log10(OCBW)) or -68 dBm whichever is less (see note 2)	2380 2504	-34	CW
(-139 dBm + 10 × log10(OCBW)) or -74 dBm whichever is less (see note 3)	2300 2330 2360 2524 2584 2674		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 26$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 20$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 7: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ whichever is less (see note 2)	2380 2504 2300 2584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 8: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less (see note 2)	2380 2504 2300 2584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Performance Criteria:

The minimum performance criterion shall be a PER less than or equal to 10 %.

9.3. Test procedure

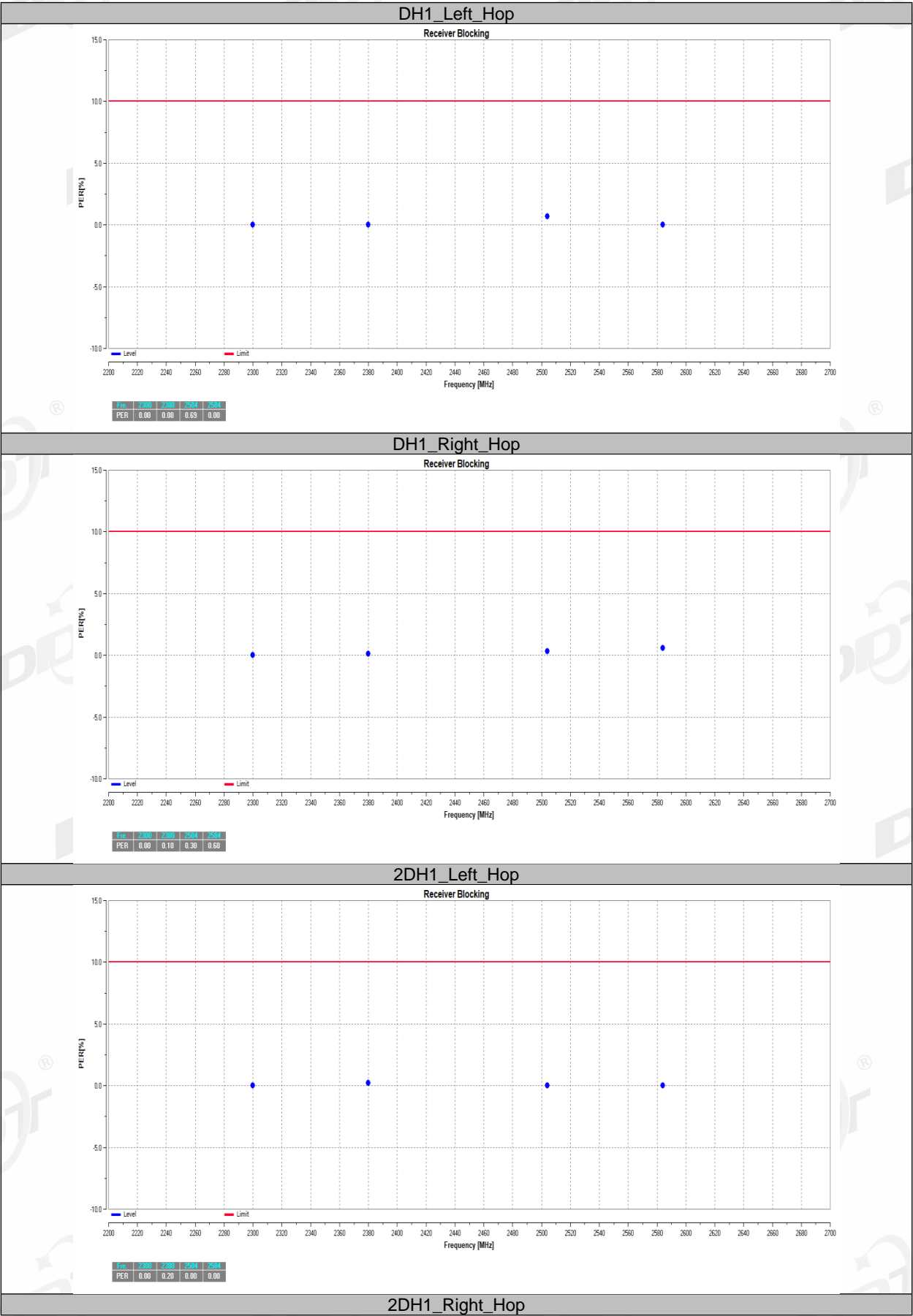
Refer to EN 300 328 V2.2.2 clause 5.4.11.2.1

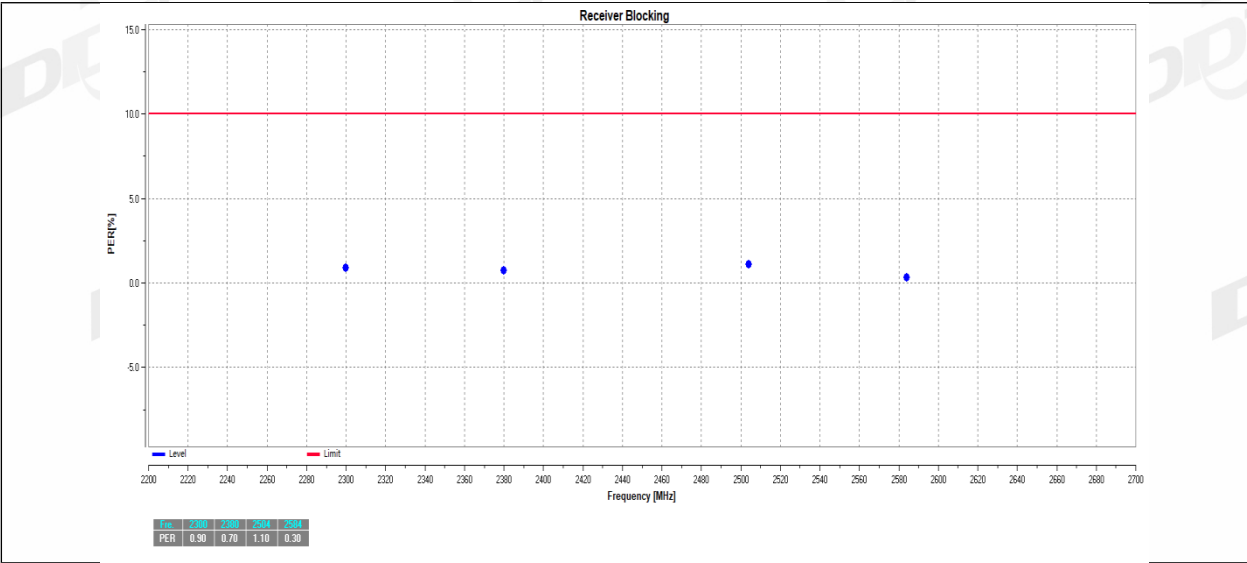
9.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.0℃,32.7%RH	Test Date:	2025.11.08
Test Power Supply:	Battery	Sample Number:	S25103101-028

TestMode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
DH1	Left	Hop	---	-70.21	2300	-34.65	0.00	≤10	PASS
			---	-70.21	2380	-34.65	0.00	≤10	PASS
			---	-70.21	2504	-34.65	0.69	≤10	PASS
			---	-70.21	2584	-34.65	0.00	≤10	PASS
	Right	Hop	---	-69.59	2300	-35.63	0.00	≤10	PASS
			---	-69.59	2380	-35.63	0.10	≤10	PASS
			---	-69.59	2504	-35.63	0.30	≤10	PASS
			---	-69.59	2584	-35.63	0.60	≤10	PASS
2DH1	Left	Hop	---	-69.01	2300	-34.65	0.00	≤10	PASS
			---	-69.01	2380	-34.65	0.20	≤10	PASS
			---	-69.01	2504	-34.65	0.00	≤10	PASS
			---	-69.01	2584	-34.65	0.00	≤10	PASS
	Right	Hop	---	-68.36	2300	-35.63	0.90	≤10	PASS
			---	-68.36	2380	-35.63	0.70	≤10	PASS
			---	-68.36	2504	-35.63	1.10	≤10	PASS
			---	-68.36	2584	-35.63	0.30	≤10	PASS

9.5. Test graphs



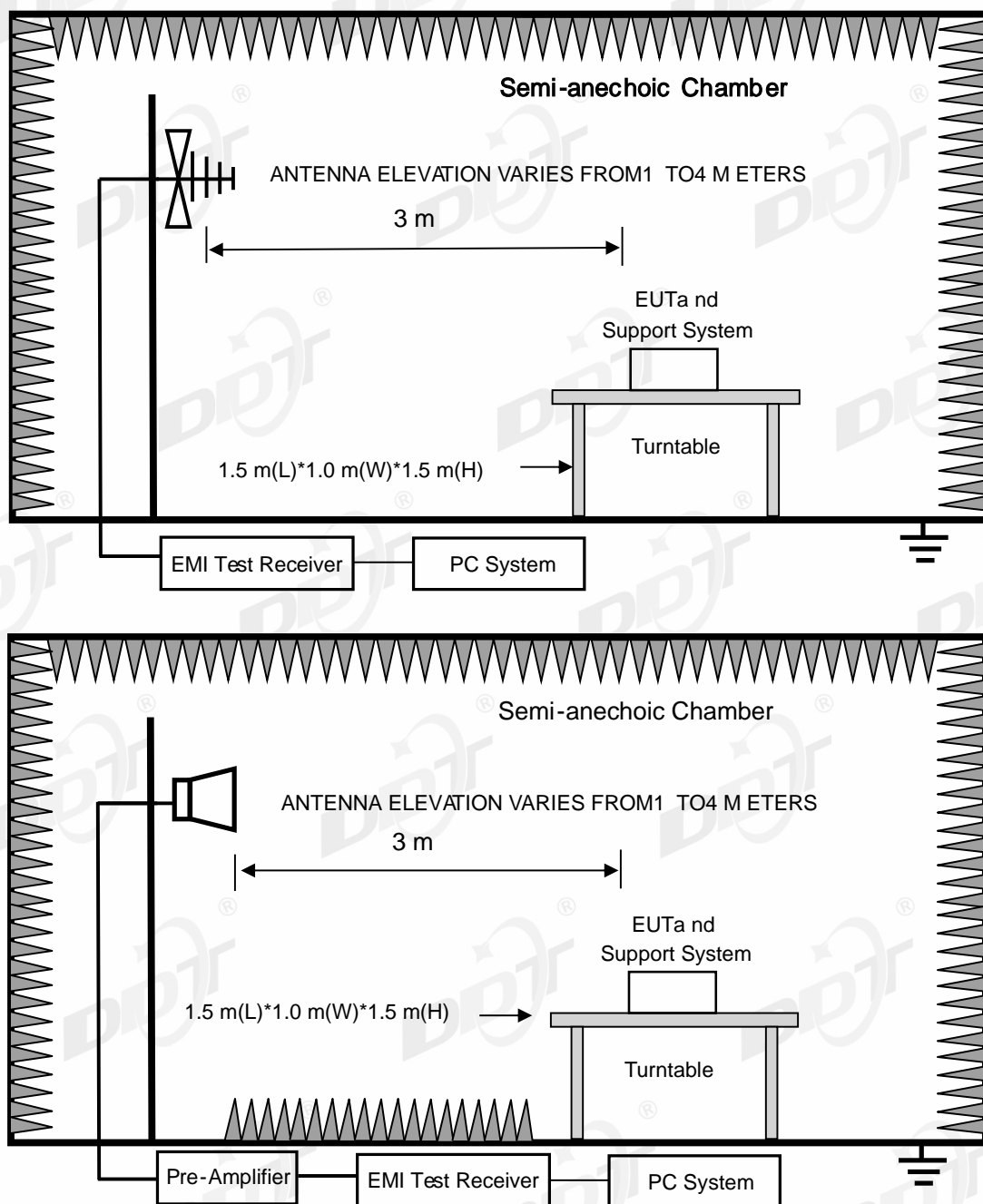


10. Transmitter unwanted emissions in the spurious domain

10.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Radiation disturbance fully automated test software	Tonscend	JS32-RE	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

10.2. Block diagram of test setup



10.3. Limits

Frequency Range	Maximum power, e.r.p (≤ 1 GHz); e.i.r.p (> 1 GHz)	Bandwidth
30MHz to 47MHz	-36 dBm	100kHz
47MHz to 74MHz	-54 dBm	100kHz
74MHz to 87.5MHz	-36 dBm	100kHz
87.5MHz to 118MHz	-54 dBm	100kHz
118MHz to 174MHz	-36 dBm	100kHz

174MHz to 230MHz	-54 dBm	100kHz
230MHz to 470MHz	-36 dBm	100kHz
470 MHz to 694 MHz	-54 dBm	100kHz
694 MHz to 1 GHz	-36 dBm	100kHz
1GHz to 12.75GHz	-30 dBm	1MHz

10.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

10.5. Test procedure

(1) EUT was placed on a non-metallic table, 1.5m above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
30MHz-1GHz	Trilog Broadband Antenna
1GHz-12.75GHz	Double Ridged Horn Antenna

(3) Set EUT work in fixed channel transmitting mode.

(4) All the emissions from 30MHz to 12.75GHz at 3m distance was measured and recorded with receive antenna in both vertical and horizontal and varied from 1 m to 4 m. in height above the reference ground plane, and rotating the turntable obtain the maximum signal strength., the test spectrum analyser was set as below

Frequency band	RBW	VBW	Detector mode
30MHz-1GHz	100kHz	300kHz	Peak
1GHz-12.75GHz	1MHz	3MHz	Peak

Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

(5) A correction values from a verified site calibration was used to calculate the spurious emissions of EUT.

(6) All the emissions are measured with PK detector. Scan with GFSK, p/4-DQPSK, the worst case was recorded in this report.

10.6. Test result

PASS. (See below detailed test result)

10.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

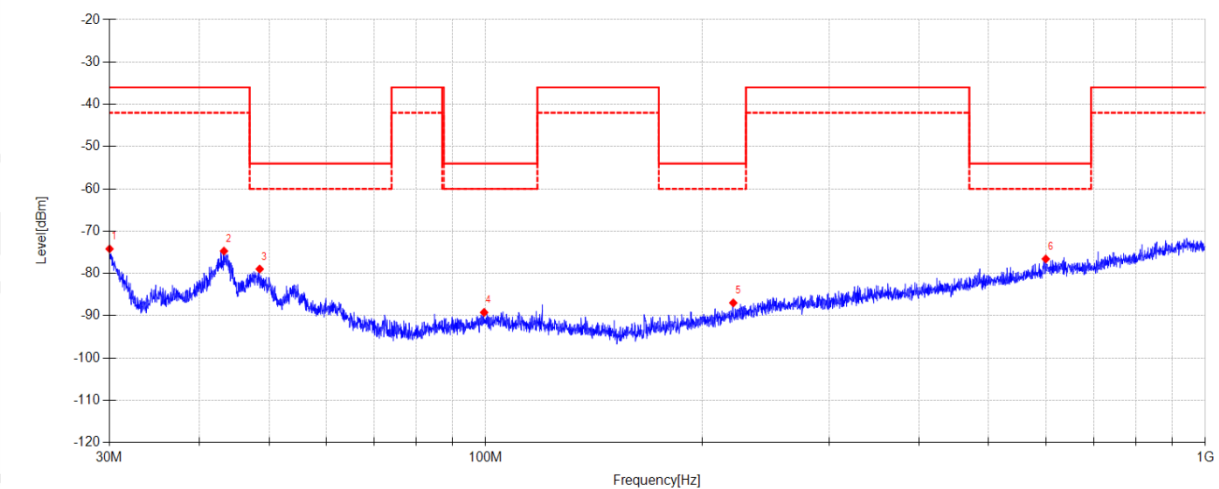
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\13

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.021	40.10	-114.30	-74.20	-36.00	38.20	PK	Horizontal	ERP
2	43.289	37.26	-111.97	-74.71	-36.00	38.71	PK	Horizontal	ERP
3	48.531	32.35	-111.31	-78.96	-54.00	24.96	PK	Horizontal	ERP
4	99.504	27.06	-116.27	-89.21	-54.00	35.21	PK	Horizontal	ERP
5	220.839	27.89	-114.85	-86.96	-54.00	32.96	PK	Horizontal	ERP
6	600.224	28.28	-104.85	-76.57	-54.00	22.57	PK	Horizontal	ERP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

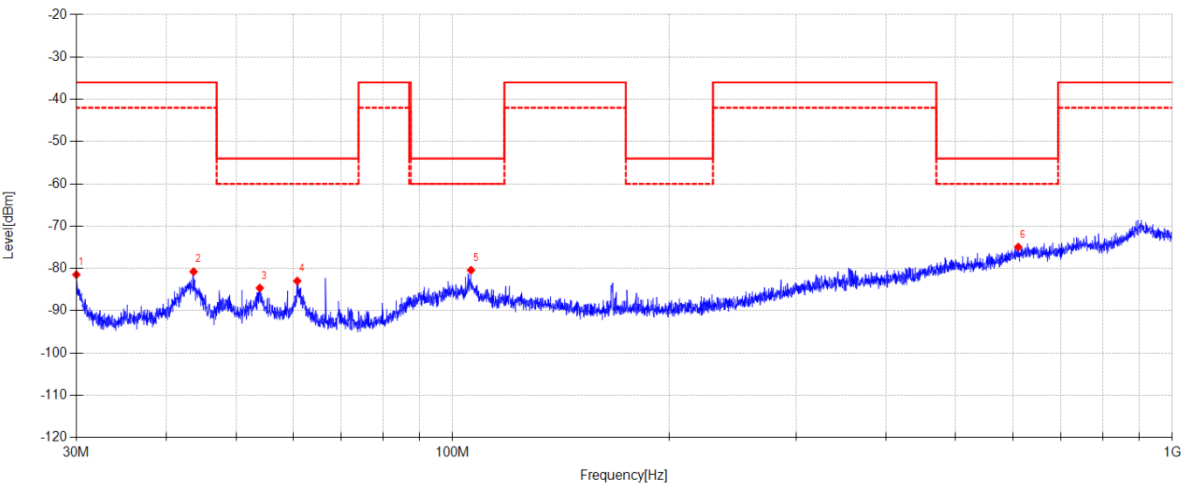
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\14

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.000	36.40	-117.86	-81.46	-36.00	45.46	PK	Vertical	ERP
2	43.655	35.73	-116.49	-80.76	-36.00	44.76	PK	Vertical	ERP
3	53.951	31.26	-115.89	-84.63	-54.00	30.63	PK	Vertical	ERP
4	60.824	33.11	-116.08	-82.97	-54.00	28.97	PK	Vertical	ERP
5	106.060	31.24	-111.65	-80.41	-54.00	26.41	PK	Vertical	ERP
6	610.838	27.68	-102.61	-74.93	-54.00	20.93	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbn

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

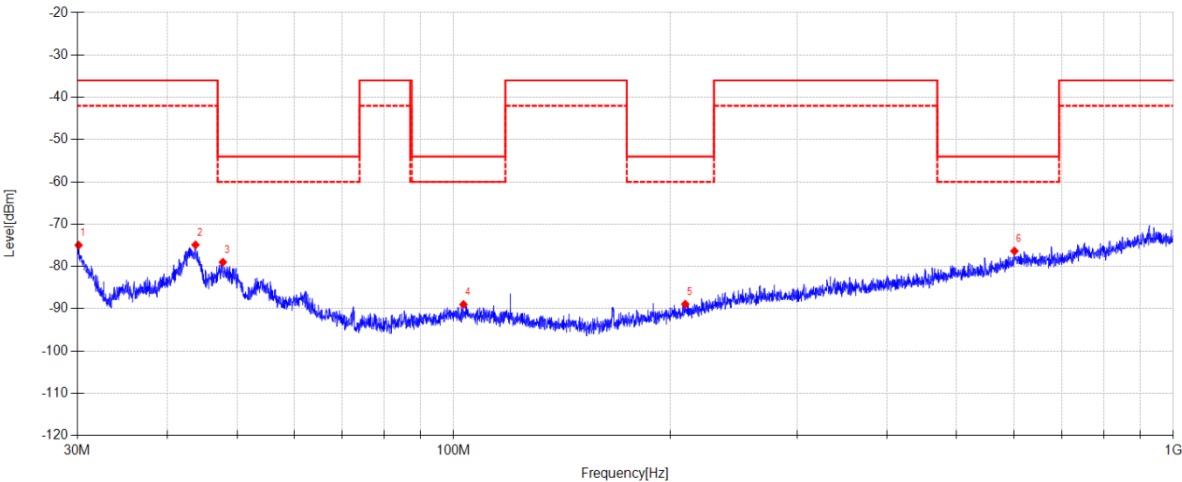
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\15

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.126	39.30	-114.28	-74.98	-36.00	38.98	PK	Horizontal	ERP
2	43.778	37.01	-111.91	-74.90	-36.00	38.90	PK	Horizontal	ERP
3	47.788	32.41	-111.40	-78.99	-54.00	24.99	PK	Horizontal	ERP
4	103.199	27.40	-116.39	-88.99	-54.00	34.99	PK	Horizontal	ERP
5	209.819	26.68	-115.60	-88.92	-54.00	34.92	PK	Horizontal	ERP
6	601.488	28.47	-104.84	-76.37	-54.00	22.37	PK	Horizontal	ERP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

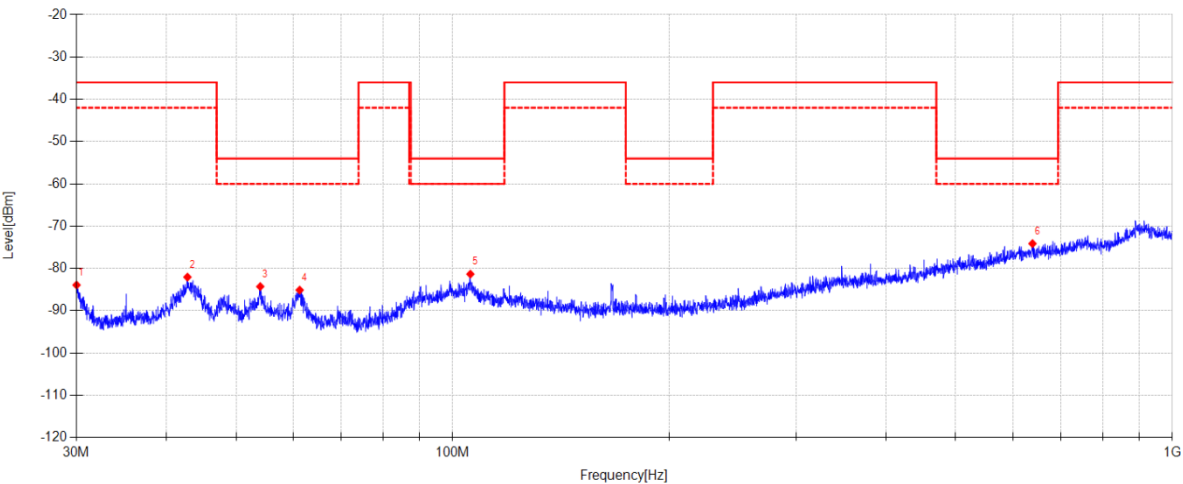
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\16

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.021	33.94	-117.86	-83.92	-36.00	47.92	PK	Vertical	ERP
2	42.807	34.51	-116.56	-82.05	-36.00	46.05	PK	Vertical	ERP
3	54.027	31.60	-115.89	-84.29	-54.00	30.29	PK	Vertical	ERP
4	61.295	31.11	-116.23	-85.12	-54.00	31.12	PK	Vertical	ERP
5	105.837	30.30	-111.64	-81.34	-54.00	27.34	PK	Vertical	ERP
6	639.322	28.12	-102.25	-74.13	-54.00	20.13	PK	Vertical	ERP

Note:

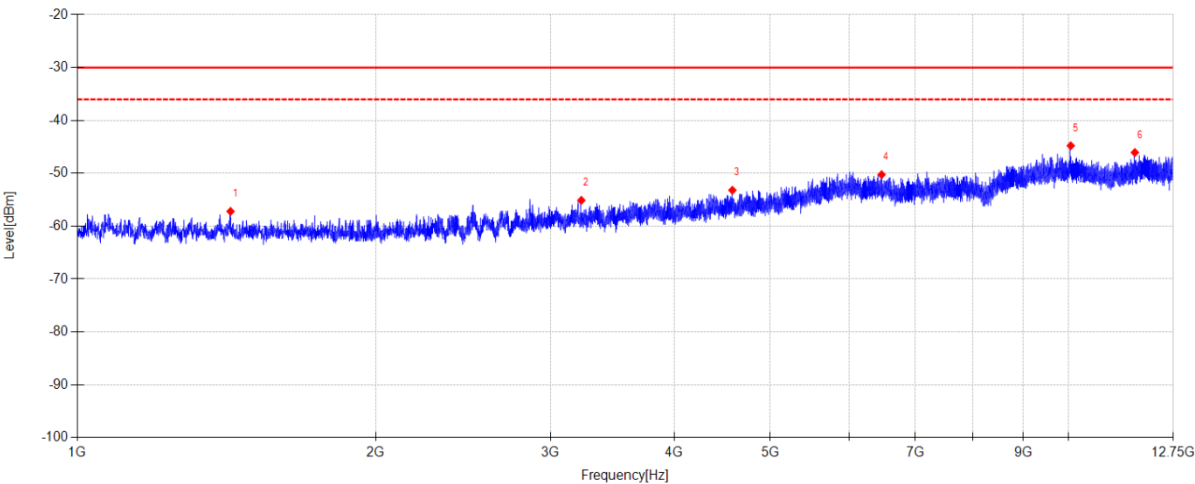
1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 Tested By: Li Xiongbin
EUT: BLUETOOTH HEADSET Model Number: LIVE BEAM 4
Test Mode: TX DH5 2402MHz Mode Power Supply: Battery
Condition: Temp:22.3°C;Humi:54.4% Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\9
Memo: Left Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1427.406	47.35	-104.55	-57.20	-30.00	27.20	PK	Horizontal	EIRP
2	3223.688	47.22	-102.33	-55.11	-30.00	25.11	PK	Horizontal	EIRP
3	4578.365	46.30	-99.50	-53.20	-30.00	23.20	PK	Horizontal	EIRP
4	6475.010	44.13	-94.38	-50.25	-30.00	20.25	PK	Horizontal	EIRP
5	10047.500	44.30	-89.08	-44.78	-30.00	14.78	PK	Horizontal	EIRP
6	11659.698	42.70	-88.77	-46.07	-30.00	16.07	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 Tested By: Li Xiongbin

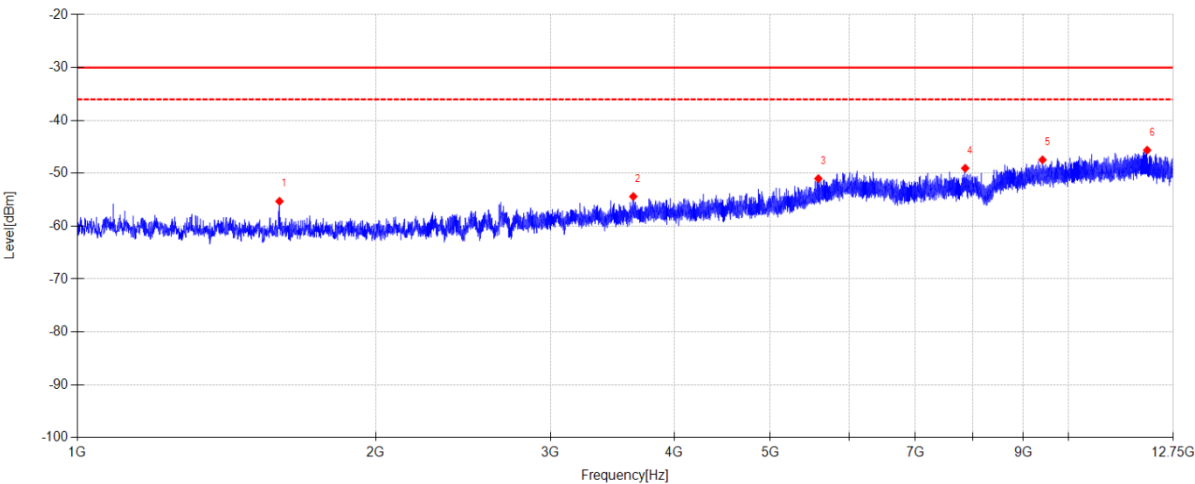
EUT: BLUETOOTH HEADSET Model Number: LIVE BEAM 4

Test Mode: TX DH5 2402MHz Mode Power Supply: Battery

Condition: Temp:22.3°C;Humi:54.4% Test Site: DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\10

Memo: Left Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1599.250	48.98	-104.28	-55.30	-30.00	25.30	PK	Vertical	EIRP
2	3637.385	47.28	-101.67	-54.39	-30.00	24.39	PK	Vertical	EIRP
3	5590.823	45.01	-96.02	-51.01	-30.00	21.01	PK	Vertical	EIRP
4	7862.979	44.24	-93.28	-49.04	-30.00	19.04	PK	Vertical	EIRP
5	9409.573	42.36	-89.82	-47.46	-30.00	17.46	PK	Vertical	EIRP
6	11999.469	42.27	-87.90	-45.63	-30.00	15.63	PK	Vertical	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

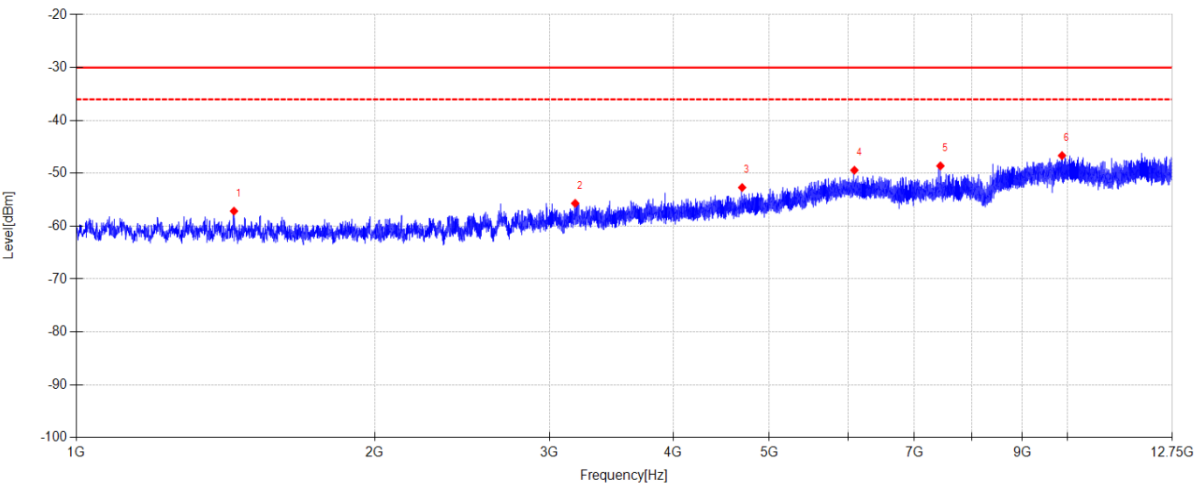
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\11

Memo:

Left Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1442.094	47.40	-104.56	-57.16	-30.00	27.16	PK	Horizontal	EIRP
2	3185.500	46.71	-102.39	-55.68	-30.00	25.68	PK	Horizontal	EIRP
3	4694.396	46.49	-99.18	-52.69	-30.00	22.69	PK	Horizontal	EIRP
4	6092.646	44.75	-94.17	-49.42	-30.00	19.42	PK	Horizontal	EIRP
5	7439.979	45.55	-94.15	-48.60	-30.00	18.60	PK	Horizontal	EIRP
6	9867.823	42.48	-89.13	-46.65	-30.00	16.65	PK	Horizontal	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

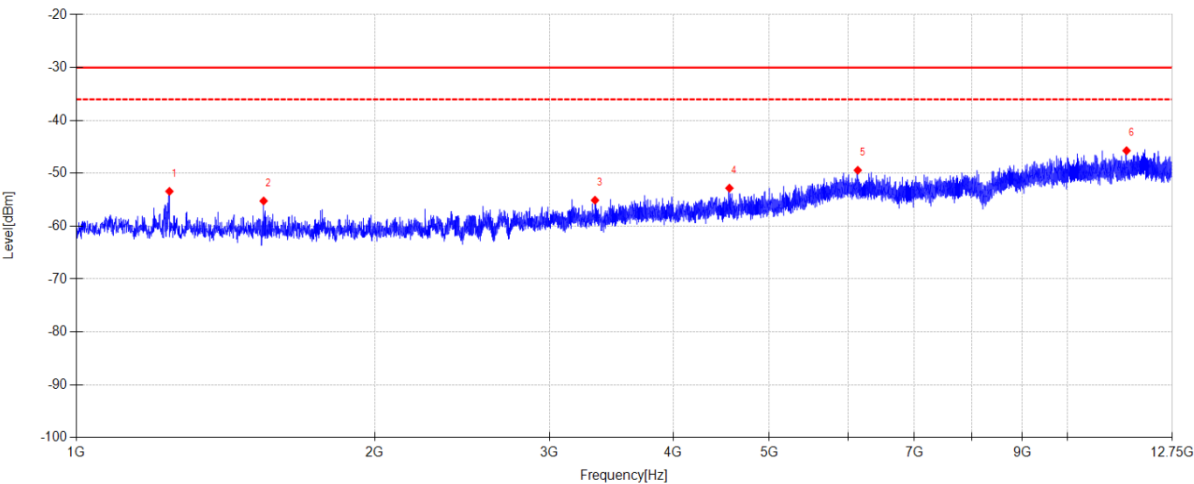
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\12

Memo:

Left Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1241.365	50.73	-104.15	-53.42	-30.00	23.42	PK	Vertical	EIRP
2	1544.906	49.03	-104.26	-55.23	-30.00	25.23	PK	Vertical	EIRP
3	3335.313	47.02	-102.12	-55.10	-30.00	25.10	PK	Vertical	EIRP
4	4557.802	47.04	-99.85	-52.81	-30.00	22.81	PK	Vertical	EIRP
5	6140.625	44.76	-94.18	-49.42	-30.00	19.42	PK	Vertical	EIRP
6	11463.865	42.25	-87.97	-45.72	-30.00	15.72	PK	Vertical	EIRP

Note:

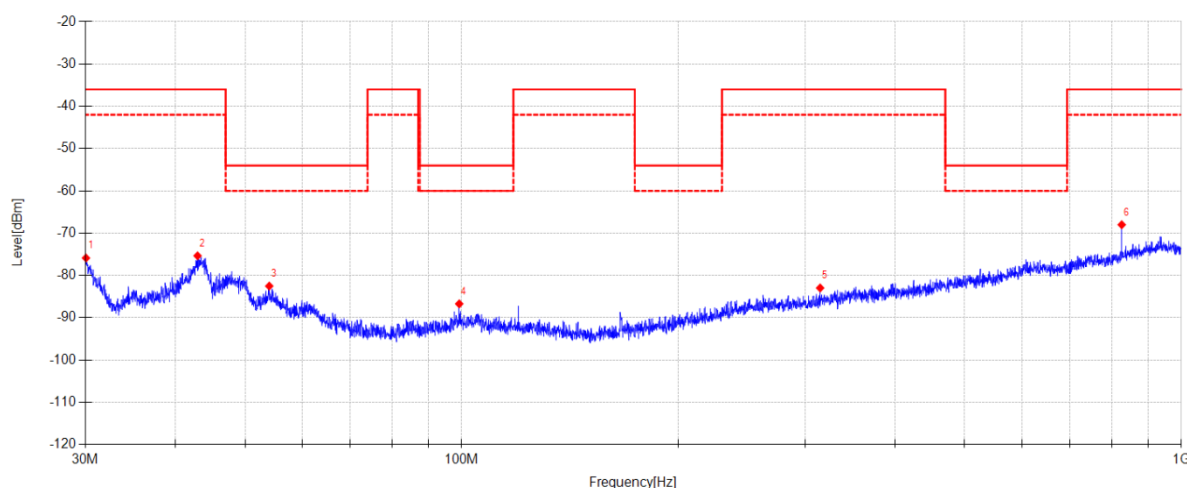
1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 **Tested By:** Li Xiongbin
EUT: BLUETOOTH HEADSET **Model Number:** LIVE BEAM 4
Test Mode: TX DH5 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.3°C;Humi:54.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\5
Memo: Right Side Sample Number:S25103101-014



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.063	38.41	-114.29	-75.88	-36.00	39.88	PK	Horizontal	ERP
2	42.957	36.65	-112.01	-75.36	-36.00	39.36	PK	Horizontal	ERP
3	54.027	29.60	-112.11	-82.51	-54.00	28.51	PK	Horizontal	ERP
4	99.226	29.61	-116.32	-86.71	-54.00	32.71	PK	Horizontal	ERP
5	314.890	28.33	-111.29	-82.96	-36.00	46.96	PK	Horizontal	ERP
6	826.365	34.23	-102.23	-68.00	-36.00	32.00	PK	Horizontal	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

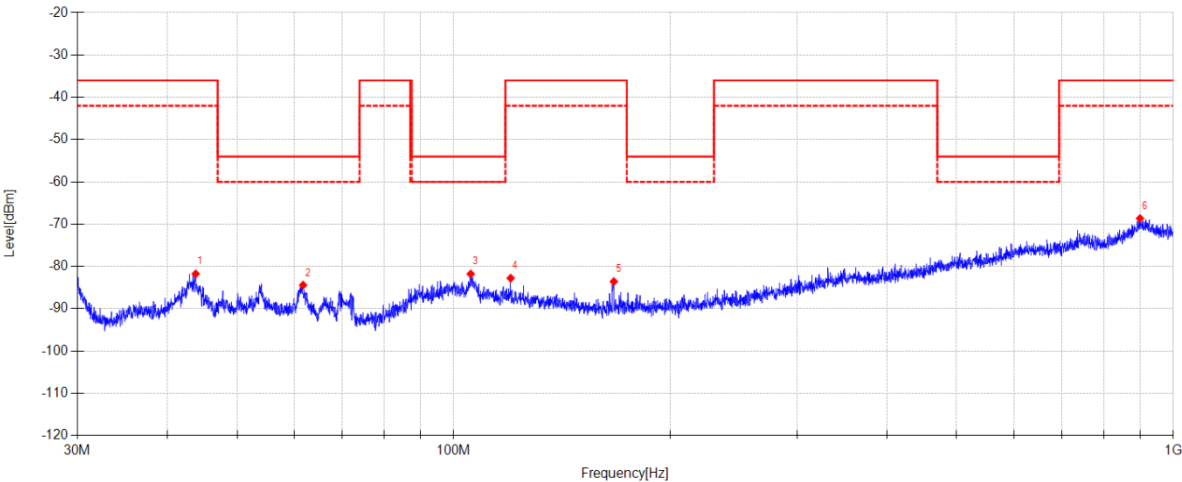
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\6

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	43.809	34.72	-116.47	-81.75	-36.00	45.75	PK	Vertical	ERP
2	61.769	31.94	-116.36	-84.42	-54.00	30.42	PK	Vertical	ERP
3	105.615	29.85	-111.62	-81.77	-54.00	27.77	PK	Vertical	ERP
4	119.991	29.85	-112.62	-82.77	-36.00	46.77	PK	Vertical	ERP
5	166.945	31.13	-114.70	-83.57	-36.00	47.57	PK	Vertical	ERP
6	898.905	27.94	-96.59	-68.65	-36.00	32.65	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

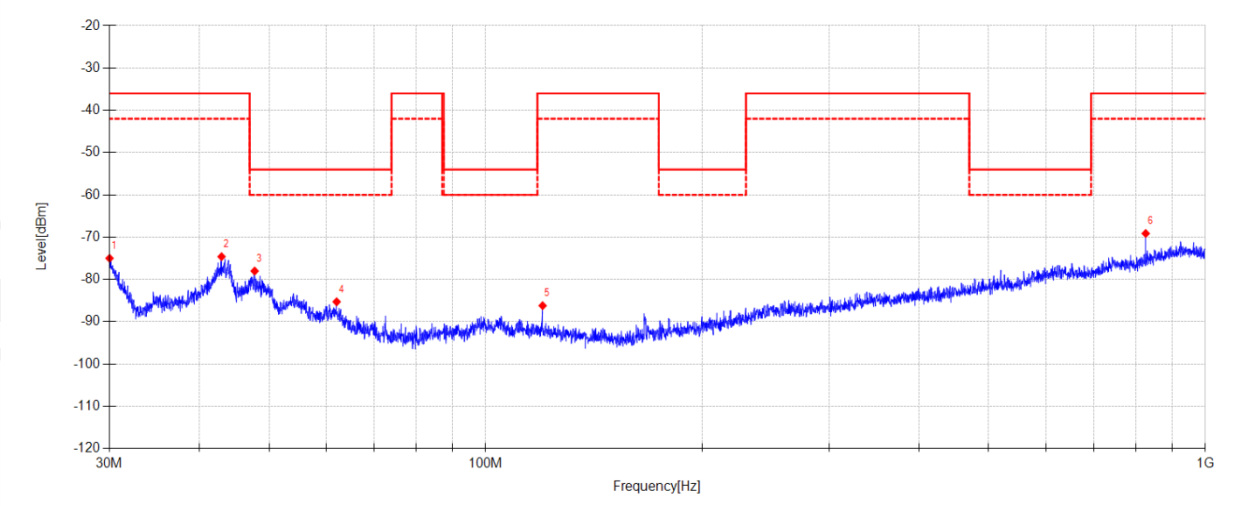
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\7

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.021	39.31	-114.30	-74.99	-36.00	38.99	PK	Horizontal	ERP
2	42.957	37.40	-112.01	-74.61	-36.00	38.61	PK	Horizontal	ERP
3	47.755	33.39	-111.40	-78.01	-54.00	24.01	PK	Horizontal	ERP
4	62.073	29.33	-114.61	-85.28	-54.00	31.28	PK	Horizontal	ERP
5	119.991	31.25	-117.45	-86.20	-36.00	50.20	PK	Horizontal	ERP
6	826.365	33.10	-102.23	-69.13	-36.00	33.13	PK	Horizontal	ERP

Note:

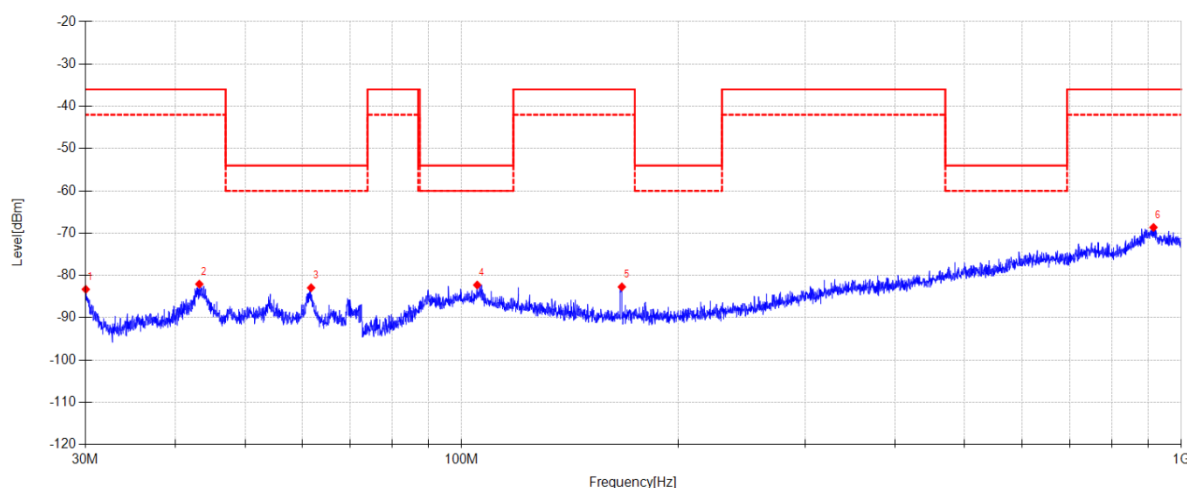
1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 **Tested By:** Li Xiongbín
EUT: BLUETOOTH HEADSET **Model Number:** LIVE BEAM 4
Test Mode: TX DH5 2402MHz Mode **Power Supply:** Battery
Condition: Temp:22.3°C;Humi:54.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\8
Memo: Right Side Sample Number:S25103101-014



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.042	34.58	-117.86	-83.28	-36.00	47.28	PK	Vertical	ERP
2	43.199	34.47	-116.52	-82.05	-36.00	46.05	PK	Vertical	ERP
3	61.769	33.44	-116.36	-82.92	-54.00	28.92	PK	Vertical	ERP
4	105.098	29.32	-111.58	-82.26	-54.00	28.26	PK	Vertical	ERP
5	166.945	32.00	-114.70	-82.70	-36.00	46.70	PK	Vertical	ERP
6	914.801	28.06	-96.71	-68.65	-36.00	32.65	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

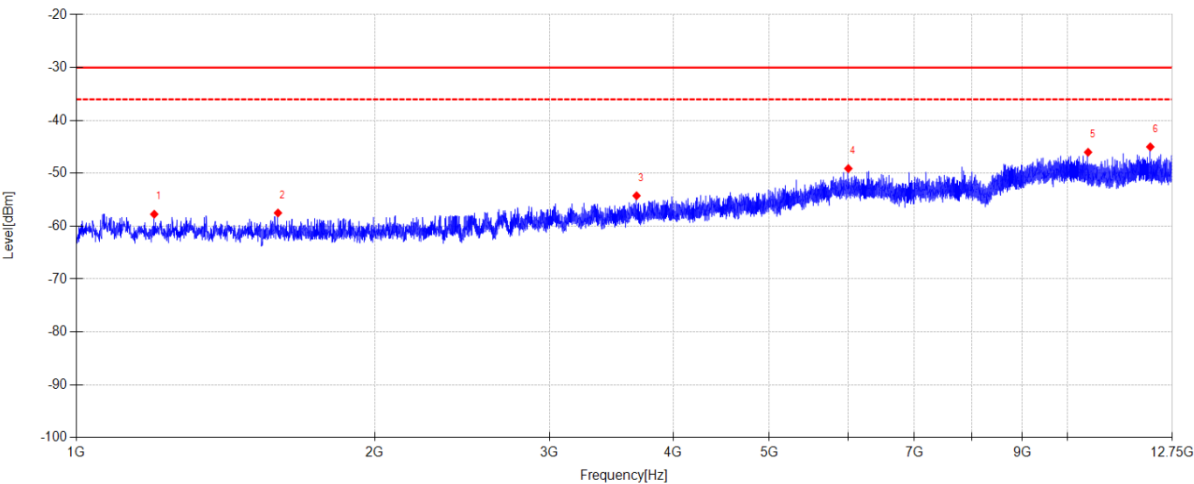
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\1

Memo:

Right Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1198.281	46.76	-104.50	-57.74	-30.00	27.74	PK	Horizontal	EIRP
2	1597.292	47.10	-104.60	-57.50	-30.00	27.50	PK	Horizontal	EIRP
3	3673.615	47.37	-101.61	-54.24	-30.00	24.24	PK	Horizontal	EIRP
4	6007.948	45.01	-94.11	-49.10	-30.00	19.10	PK	Horizontal	EIRP
5	10484.698	43.21	-89.22	-46.01	-30.00	16.01	PK	Horizontal	EIRP
6	12115.010	43.44	-88.44	-45.00	-30.00	15.00	PK	Horizontal	EIRP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

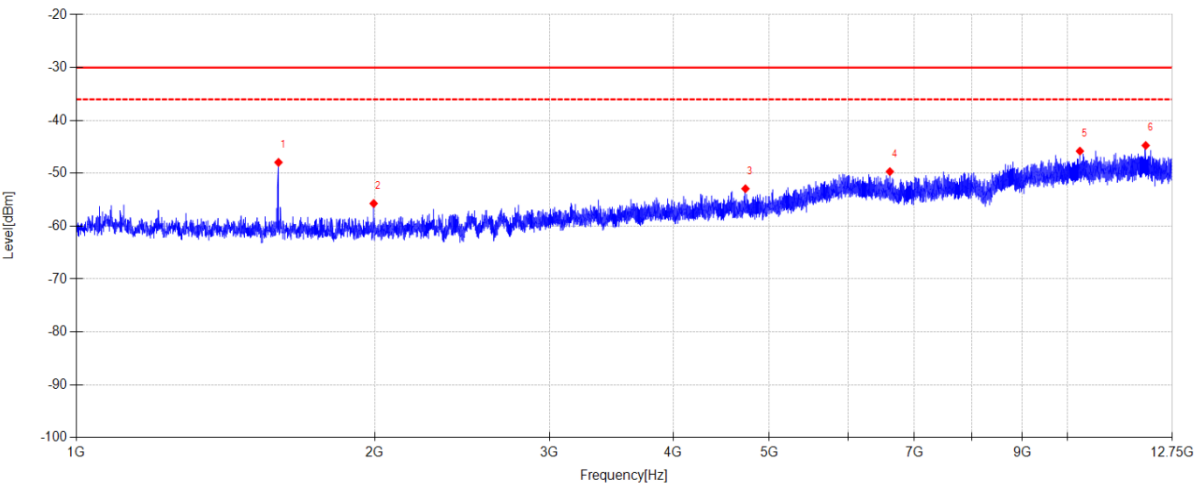
DDT 3# Chamber

File Path:

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Memo:

Right Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1599.250	56.35	-104.28	-47.93	-30.00	17.93	PK	Vertical	EIRP
2	1994.833	48.71	-104.43	-55.72	-30.00	25.72	PK	Vertical	EIRP
3	4730.625	46.54	-99.45	-52.91	-30.00	22.91	PK	Vertical	EIRP
4	6616.010	44.86	-94.54	-49.68	-30.00	19.68	PK	Vertical	EIRP
5	10286.906	43.32	-89.12	-45.80	-30.00	15.80	PK	Vertical	EIRP
6	11985.760	43.17	-87.91	-44.74	-30.00	14.74	PK	Vertical	EIRP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

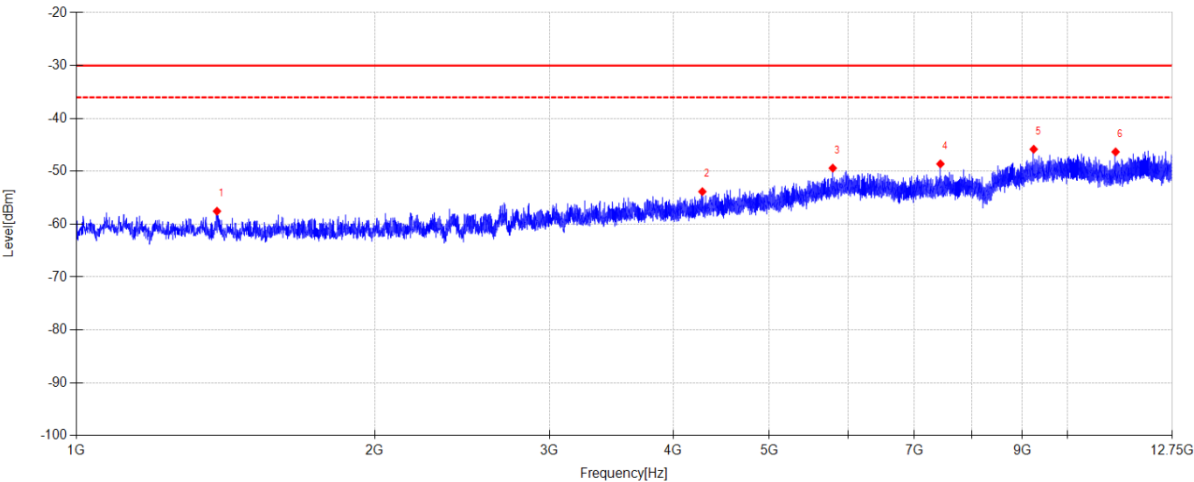
DDT 3# Chamber

File Path:

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Memo:

Right Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1386.281	47.00	-104.55	-57.55	-30.00	27.55	PK	Horizontal	EIRP
2	4280.208	46.47	-100.32	-53.85	-30.00	23.85	PK	Horizontal	EIRP
3	5794.490	45.58	-94.98	-49.40	-30.00	19.40	PK	Horizontal	EIRP
4	7439.979	45.55	-94.15	-48.60	-30.00	18.60	PK	Horizontal	EIRP
5	9240.177	43.68	-89.51	-45.83	-30.00	15.83	PK	Horizontal	EIRP
6	11175.500	42.90	-89.23	-46.33	-30.00	16.33	PK	Horizontal	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

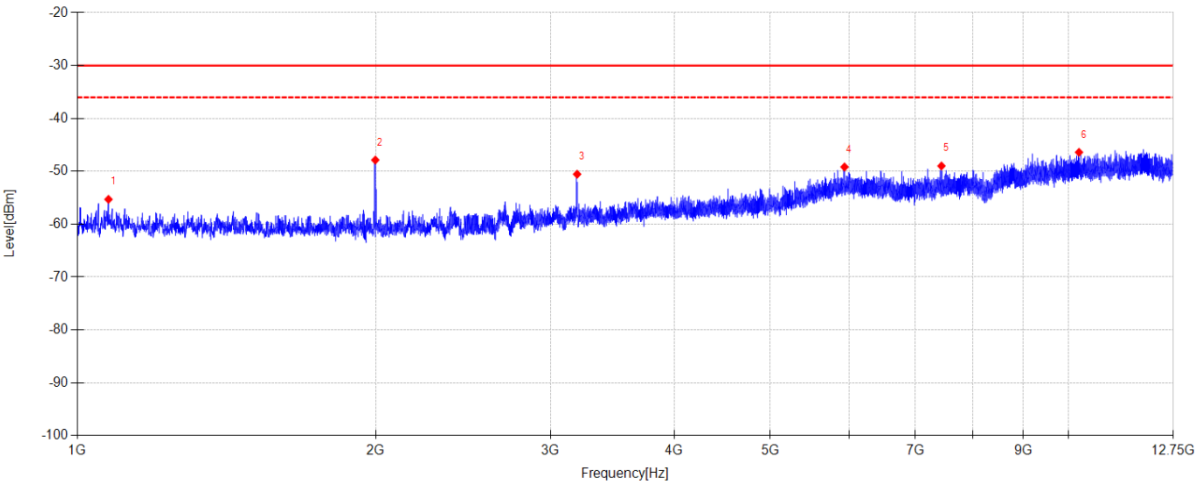
DDT 3# Chamber

File Path:

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Memo:

Right Side Sample Number:S25103101-014 Power Setting:2



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1074.906	48.77	-104.08	-55.31	-30.00	25.31	PK	Vertical	EIRP
2	1997.771	56.57	-104.44	-47.87	-30.00	17.87	PK	Vertical	EIRP
3	3192.354	51.79	-102.34	-50.55	-30.00	20.55	PK	Vertical	EIRP
4	5940.875	45.18	-94.36	-49.18	-30.00	19.18	PK	Vertical	EIRP
5	7440.469	45.06	-94.05	-48.99	-30.00	18.99	PK	Vertical	EIRP
6	10241.375	42.80	-89.20	-46.40	-30.00	16.40	PK	Vertical	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

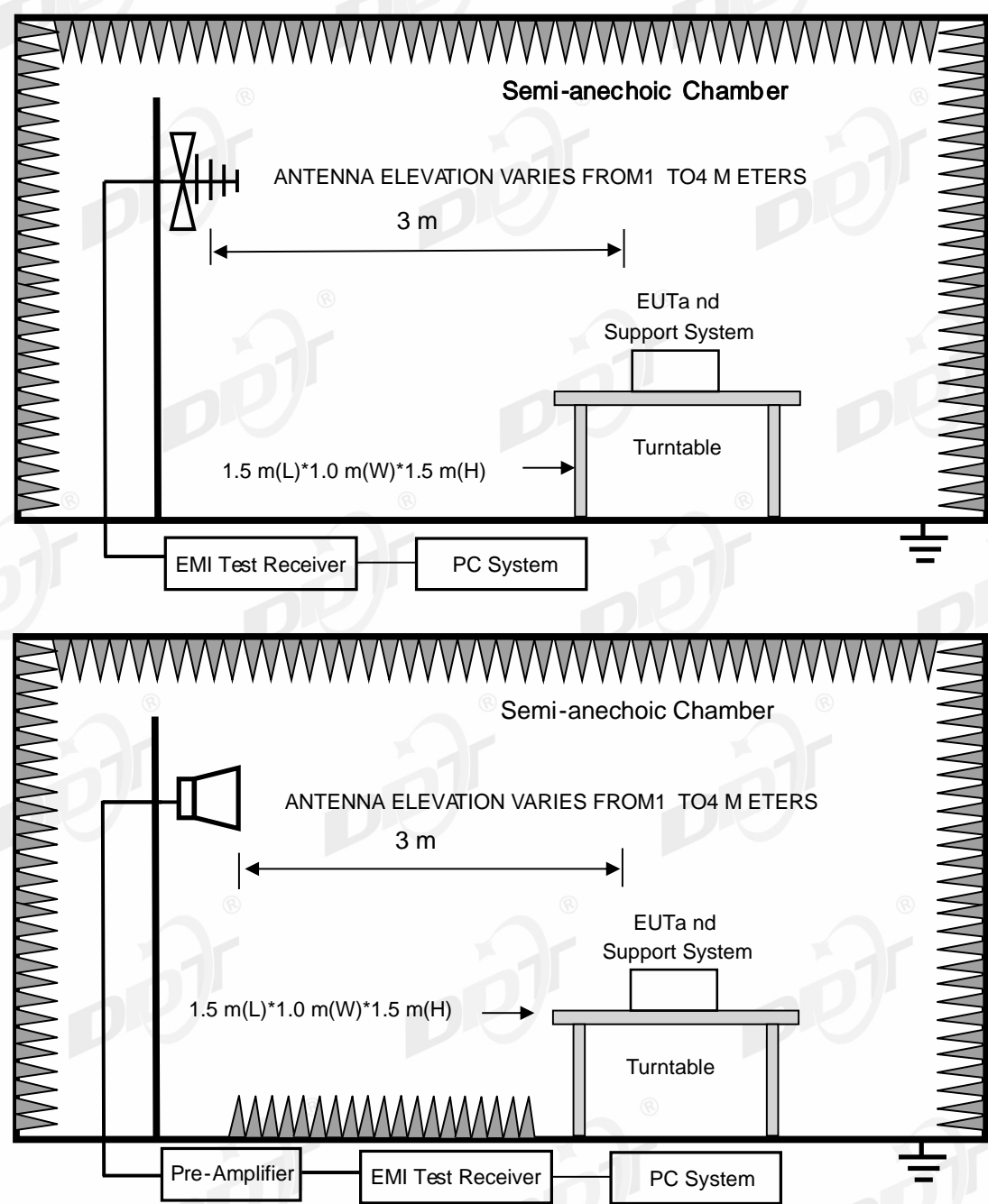
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Receiver spurious emissions

11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Radiation disturbance fully automated test software	Tonscend	JS32-RE	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

11.2. Block diagram of test setup



11.3. Limits

The spurious emissions of the receiver shall not exceed the values given in below table.

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

11.4. Assistant equipment used for test

Assistant	Manufacturer	Model number	Description	other
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equipment				
/	/	/	/	/

11.5. Test procedure

Refer to EN 300 328 V2.2.2 Clause 5.4.10.2

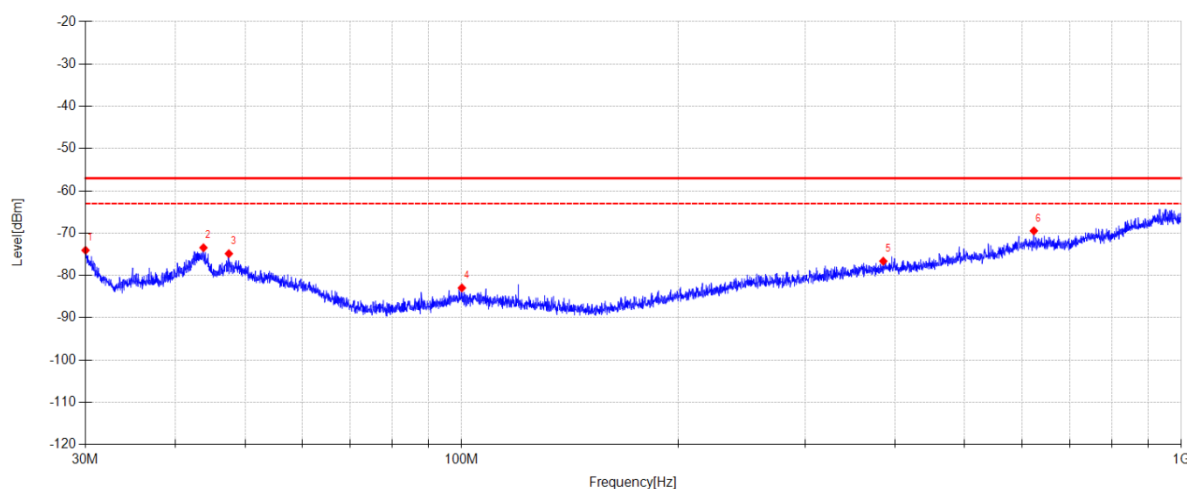
11.6. Test result

PASS. (See below detailed test result)

11.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 **Tested By:** Li Xiongbin
EUT: BLUETOOTH HEADSET **Model Number:** LIVE BEAM 4
Test Mode: RX DH5 2402MHz Mode **Power Supply:** Battery
Condition: Temp:22.3°C;Humi:54.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\9
Memo: Left Side Sample Number:S25103101-014



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.021	40.24	-114.30	-74.06	-57.00	17.06	PK	Horizontal	ERP
2	43.778	38.47	-111.91	-73.44	-57.00	16.44	PK	Horizontal	ERP
3	47.487	36.59	-111.44	-74.85	-57.00	17.85	PK	Horizontal	ERP
4	100.064	33.24	-116.19	-82.95	-57.00	25.95	PK	Horizontal	ERP
5	385.354	33.03	-109.65	-76.62	-57.00	19.62	PK	Horizontal	ERP
6	623.823	35.29	-104.75	-69.46	-57.00	12.46	PK	Horizontal	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

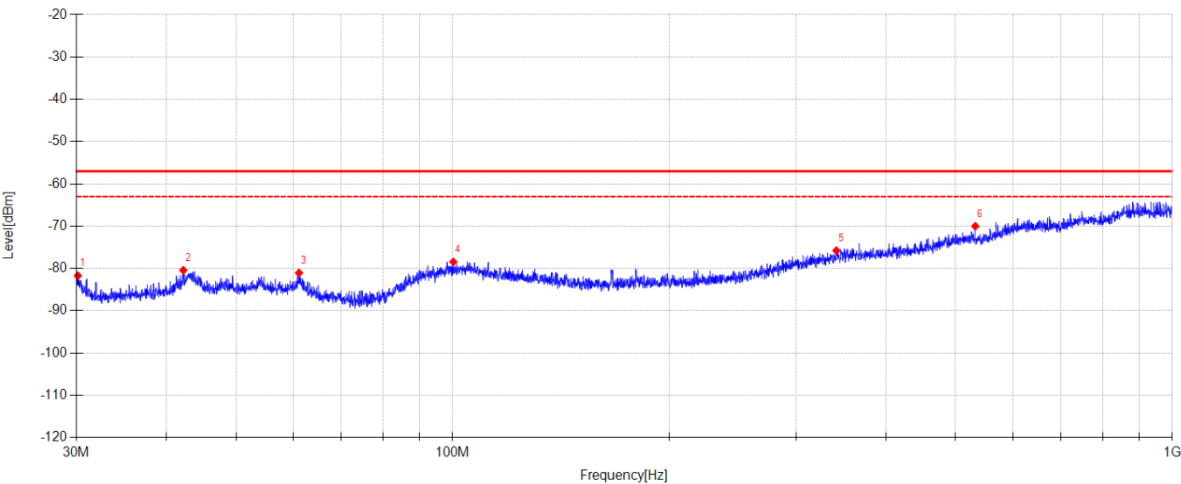
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\10

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.148	36.14	-117.85	-81.71	-57.00	24.71	PK	Vertical	ERP
2	42.240	36.18	-116.61	-80.43	-57.00	23.43	PK	Vertical	ERP
3	61.166	35.13	-116.19	-81.06	-57.00	24.06	PK	Vertical	ERP
4	100.204	32.79	-111.24	-78.45	-57.00	21.45	PK	Vertical	ERP
5	341.333	32.77	-108.56	-75.79	-57.00	18.79	PK	Vertical	ERP
6	532.404	34.94	-104.95	-70.01	-57.00	13.01	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

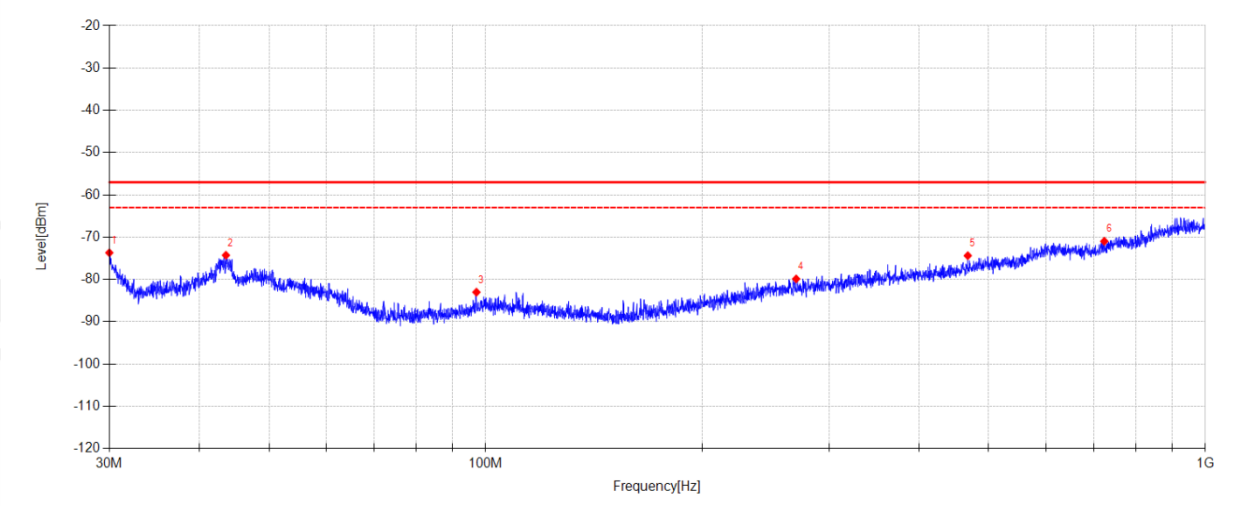
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\11

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.000	40.61	-114.30	-73.69	-57.00	16.69	PK	Horizontal	ERP
2	43.564	37.66	-111.94	-74.28	-57.00	17.28	PK	Horizontal	ERP
3	97.092	33.66	-116.67	-83.01	-57.00	26.01	PK	Horizontal	ERP
4	270.067	32.53	-112.39	-79.86	-57.00	22.86	PK	Horizontal	ERP
5	467.634	33.97	-108.35	-74.38	-57.00	17.38	PK	Horizontal	ERP
6	723.800	33.10	-104.07	-70.97	-57.00	13.97	PK	Horizontal	ERP

Note:

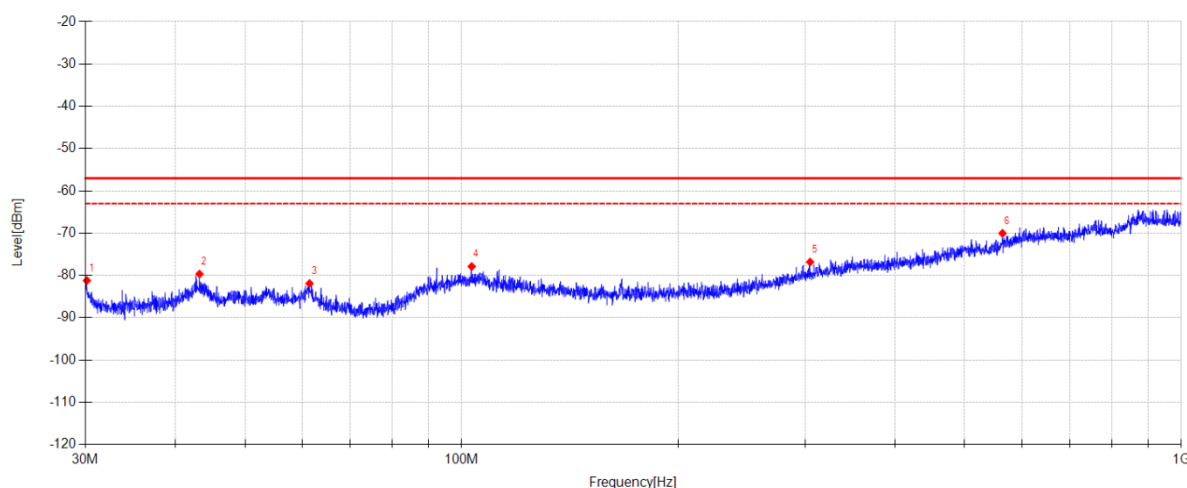
1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 **Tested By:** Li Xiongbin
EUT: BLUETOOTH HEADSET **Model Number:** LIVE BEAM 4
Test Mode: RX DH5 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.3°C;Humi:54.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\12
Memo: Left Side Sample Number:S25103101-014

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.148	36.64	-117.85	-81.21	-57.00	24.21	PK	Vertical	ERP
2	43.229	36.85	-116.52	-79.67	-57.00	22.67	PK	Vertical	ERP
3	61.467	34.37	-116.27	-81.90	-57.00	24.90	PK	Vertical	ERP
4	103.272	33.57	-111.45	-77.88	-57.00	20.88	PK	Vertical	ERP
5	304.896	33.09	-109.91	-76.82	-57.00	19.82	PK	Vertical	ERP
6	564.308	34.31	-104.34	-70.03	-57.00	13.03	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

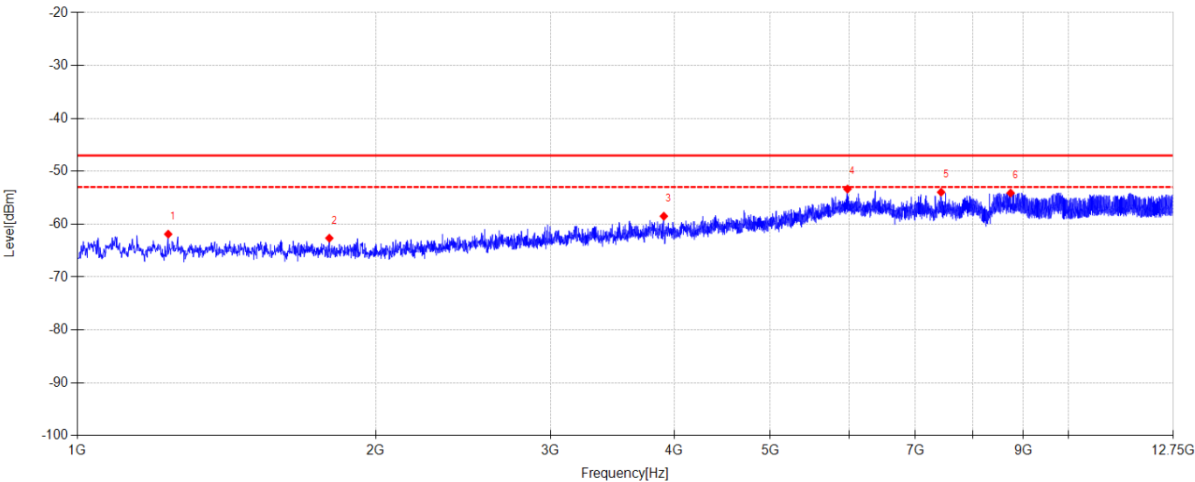
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\13

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1235.000	42.61	-104.50	-61.89	-47.00	14.89	RMS	Horizontal	EIRP
2	1795.475	42.00	-104.65	-62.65	-47.00	15.65	RMS	Horizontal	EIRP
3	3904.600	42.74	-101.24	-58.50	-47.00	11.50	RMS	Horizontal	EIRP
4	5982.000	40.83	-94.19	-53.36	-47.00	6.36	RMS	Horizontal	EIRP
5	7434.300	40.19	-94.15	-53.96	-47.00	6.96	RMS	Horizontal	EIRP
6	8737.375	36.55	-90.66	-54.11	-47.00	7.11	RMS	Horizontal	EIRP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

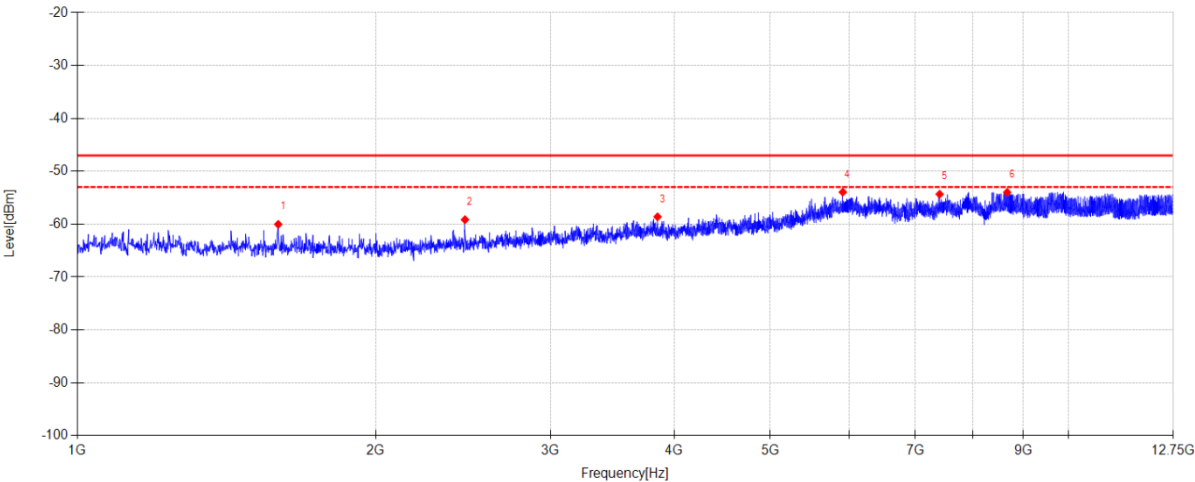
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\14

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1594.550	44.26	-104.29	-60.03	-47.00	13.03	RMS	Vertical	EIRP
2	2460.525	44.45	-103.61	-59.16	-47.00	12.16	RMS	Vertical	EIRP
3	3848.200	42.74	-101.35	-58.61	-47.00	11.61	RMS	Vertical	EIRP
4	5917.375	40.54	-94.48	-53.94	-47.00	6.94	RMS	Vertical	EIRP
5	7409.625	39.77	-94.10	-54.33	-47.00	7.33	RMS	Vertical	EIRP
6	8668.050	37.03	-91.01	-53.98	-47.00	6.98	RMS	Vertical	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 Tested By: Li Xiongbin

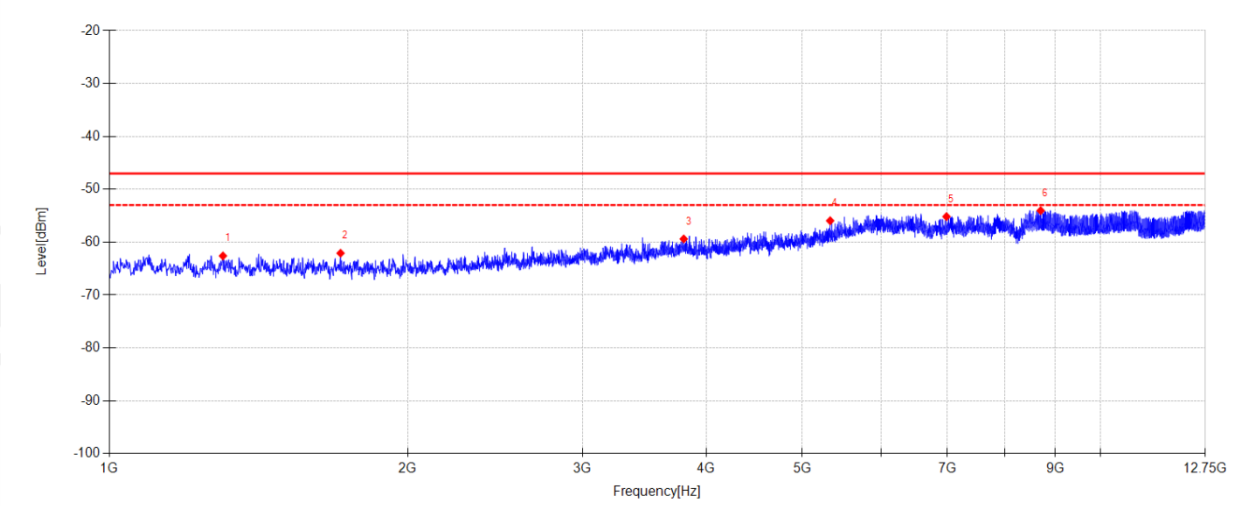
EUT: BLUETOOTH HEADSET Model Number: LIVE BEAM 4

Test Mode: RX DH5 2402MHz Mode Power Supply: Battery

Condition: Temp:22.3°C;Humi:54.4% Test Site: DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\15

Memo: Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1301.975	41.92	-104.52	-62.60	-47.00	15.60	RMS	Horizontal	EIRP
2	1710.875	42.53	-104.62	-62.09	-47.00	15.09	RMS	Horizontal	EIRP
3	3796.500	42.03	-101.42	-59.39	-47.00	12.39	RMS	Horizontal	EIRP
4	5334.575	40.98	-96.93	-55.95	-47.00	8.95	RMS	Horizontal	EIRP
5	6988.975	39.52	-94.69	-55.17	-47.00	8.17	RMS	Horizontal	EIRP
6	8697.425	36.77	-90.80	-54.03	-47.00	7.03	RMS	Horizontal	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

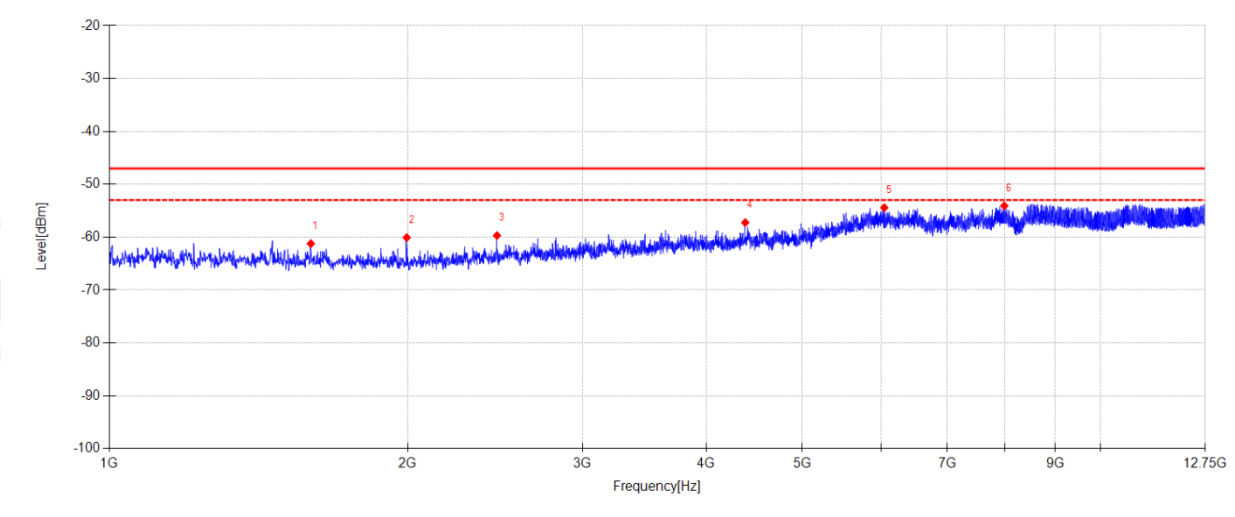
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\16

Memo:

Left Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1596.900	43.06	-104.29	-61.23	-47.00	14.23	RMS	Vertical	EIRP
2	1995.225	44.36	-104.43	-60.07	-47.00	13.07	RMS	Vertical	EIRP
3	2460.525	43.92	-103.61	-59.69	-47.00	12.69	RMS	Vertical	EIRP
4	4379.300	43.02	-100.26	-57.24	-47.00	10.24	RMS	Vertical	EIRP
5	6047.800	39.69	-94.11	-54.42	-47.00	7.42	RMS	Vertical	EIRP
6	7993.600	38.97	-93.04	-54.07	-47.00	7.07	RMS	Vertical	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbin

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

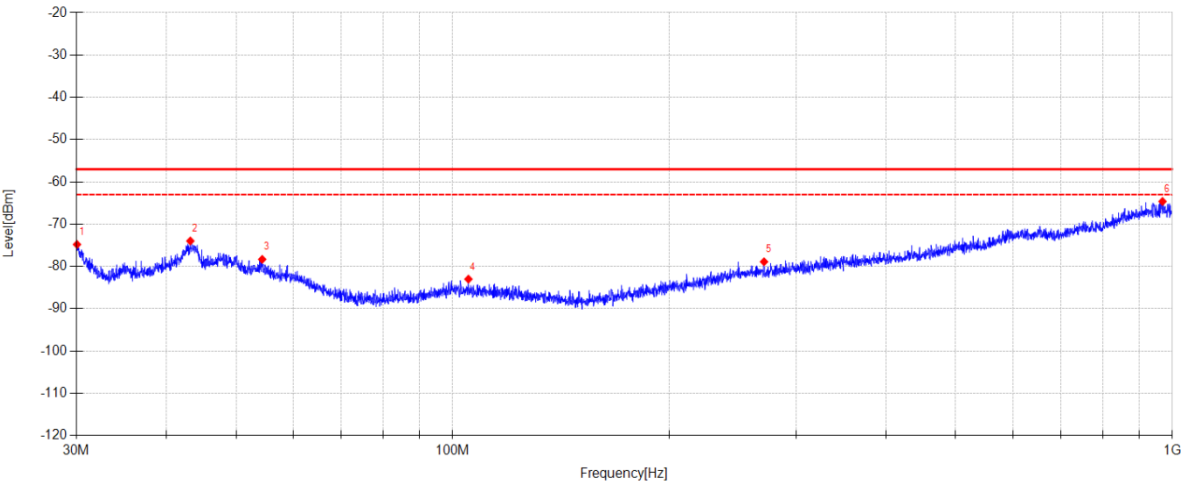
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\1

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.063	39.48	-114.29	-74.81	-57.00	17.81	PK	Horizontal	ERP
2	43.199	38.00	-111.98	-73.98	-57.00	16.98	PK	Horizontal	ERP
3	54.369	33.88	-112.20	-78.32	-57.00	21.32	PK	Horizontal	ERP
4	105.172	33.52	-116.52	-83.00	-57.00	26.00	PK	Horizontal	ERP
5	270.825	33.49	-112.38	-78.89	-57.00	21.89	PK	Horizontal	ERP
6	968.940	34.52	-99.15	-64.63	-57.00	7.63	PK	Horizontal	ERP

Note:

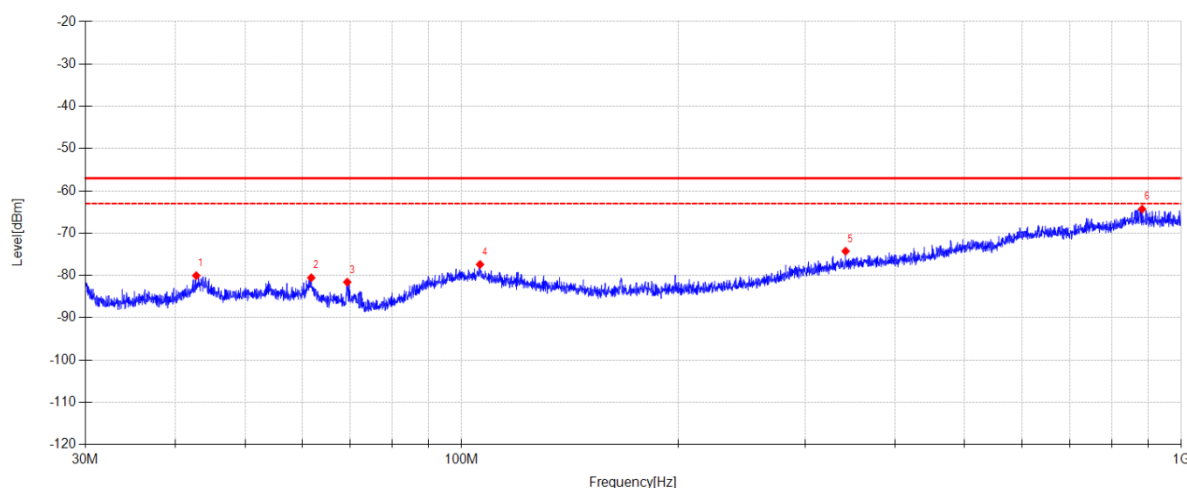
1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 **Tested By:** Li Xiongbin
EUT: BLUETOOTH HEADSET **Model Number:** LIVE BEAM 4
Test Mode: RX DH5 2402MHz Mode **Power Supply:** Battery
Condition: Temp:22.3°C;Humi:54.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\2
Memo: Right Side Sample Number:S25103101-014

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	42.777	36.52	-116.56	-80.04	-57.00	23.04	PK	Vertical	ERP
2	61.812	35.83	-116.38	-80.55	-57.00	23.55	PK	Vertical	ERP
3	69.345	37.03	-118.61	-81.58	-57.00	24.58	PK	Vertical	ERP
4	106.060	34.25	-111.65	-77.40	-57.00	20.40	PK	Vertical	ERP
5	341.573	34.28	-108.55	-74.27	-57.00	17.27	PK	Vertical	ERP
6	882.047	33.34	-97.66	-64.32	-57.00	7.32	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

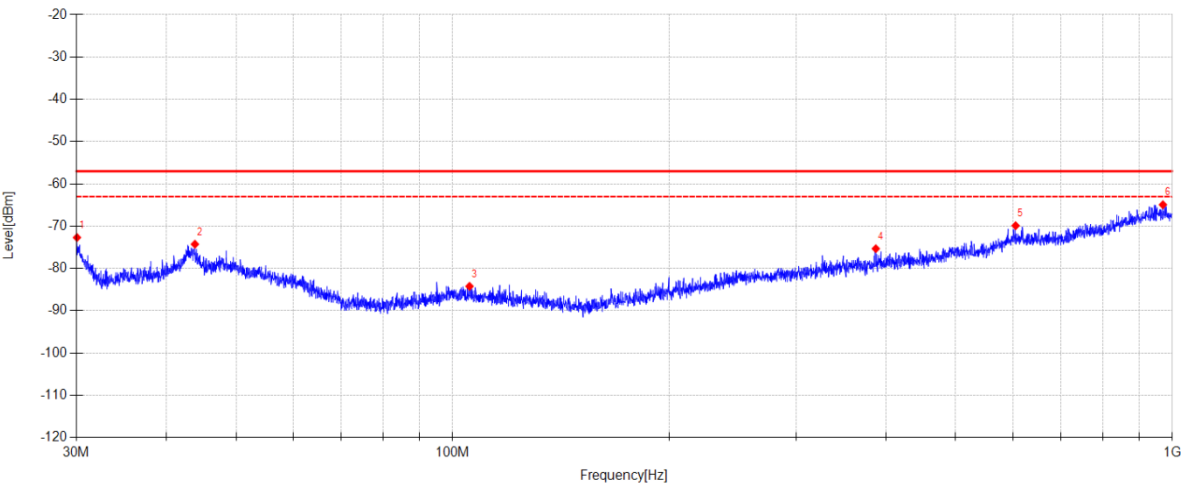
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\3

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.063	41.60	-114.29	-72.69	-57.00	15.69	PK	Horizontal	ERP
2	43.839	37.64	-111.91	-74.27	-57.00	17.27	PK	Horizontal	ERP
3	105.541	32.32	-116.55	-84.23	-57.00	27.23	PK	Horizontal	ERP
4	387.250	34.29	-109.62	-75.33	-57.00	18.33	PK	Horizontal	ERP
5	605.720	34.93	-104.82	-69.89	-57.00	12.89	PK	Horizontal	ERP
6	970.300	34.24	-99.17	-64.93	-57.00	7.93	PK	Horizontal	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

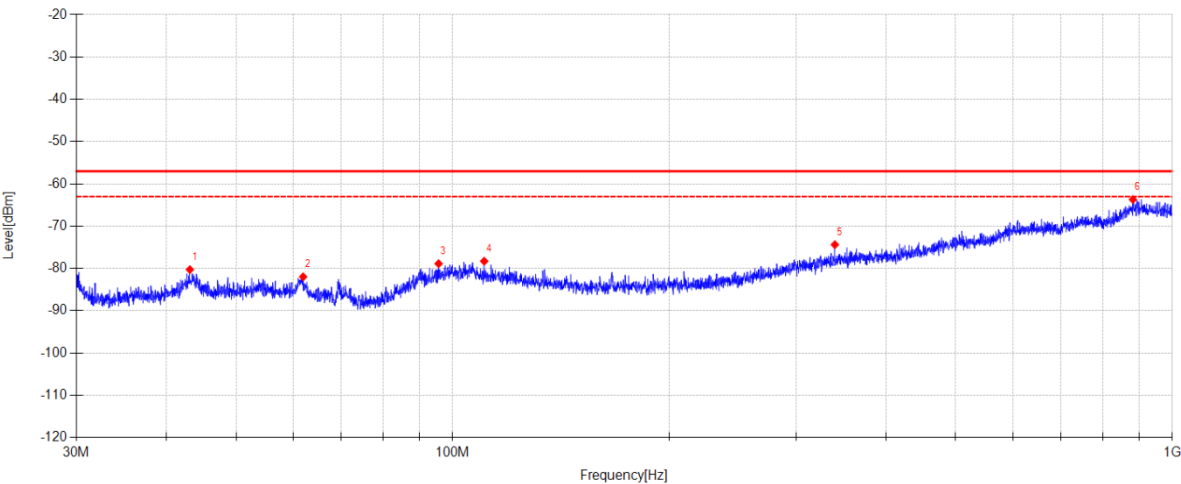
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Below 1G BT\4

Memo:

Right Side Sample Number:S25103101-014



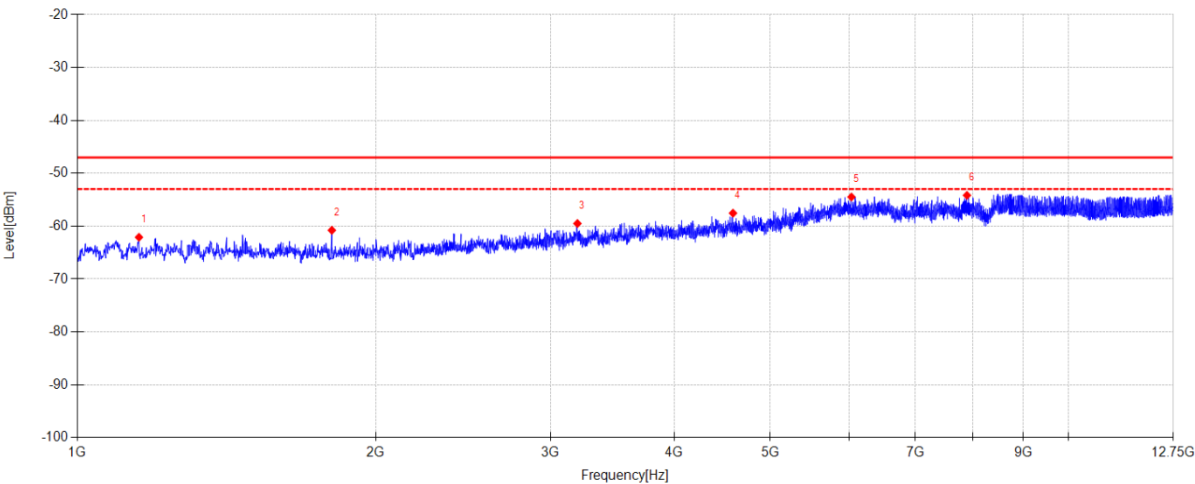
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	43.138	36.26	-116.53	-80.27	-57.00	23.27	PK	Vertical	ERP
2	61.986	34.45	-116.43	-81.98	-57.00	24.98	PK	Vertical	ERP
3	95.606	33.16	-112.03	-78.87	-57.00	21.87	PK	Vertical	ERP
4	110.617	33.69	-111.97	-78.28	-57.00	21.28	PK	Vertical	ERP
5	339.662	34.24	-108.63	-74.39	-57.00	17.39	PK	Vertical	ERP
6	881.429	34.01	-97.70	-63.69	-57.00	6.69	PK	Vertical	ERP

Note:

1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-12 Tested By: Li Xiongbin
EUT: BLUETOOTH HEADSET Model Number: LIVE BEAM 4
Test Mode: RX DH5 2480MHz Mode Power Supply: Battery
Condition: Temp:22.3°C;Humi:54.4% Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\5
Memo: Right Side Sample Number:S25103101-014



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1153.925	42.38	-104.48	-62.10	-47.00	15.10	RMS	Horizontal	EIRP
2	1806.050	43.87	-104.65	-60.78	-47.00	13.78	RMS	Horizontal	EIRP
3	3194.900	42.88	-102.38	-59.50	-47.00	12.50	RMS	Horizontal	EIRP
4	4584.925	41.94	-99.48	-57.54	-47.00	10.54	RMS	Horizontal	EIRP
5	6037.225	39.65	-94.13	-54.48	-47.00	7.48	RMS	Horizontal	EIRP
6	7894.900	39.40	-93.57	-54.17	-47.00	7.17	RMS	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

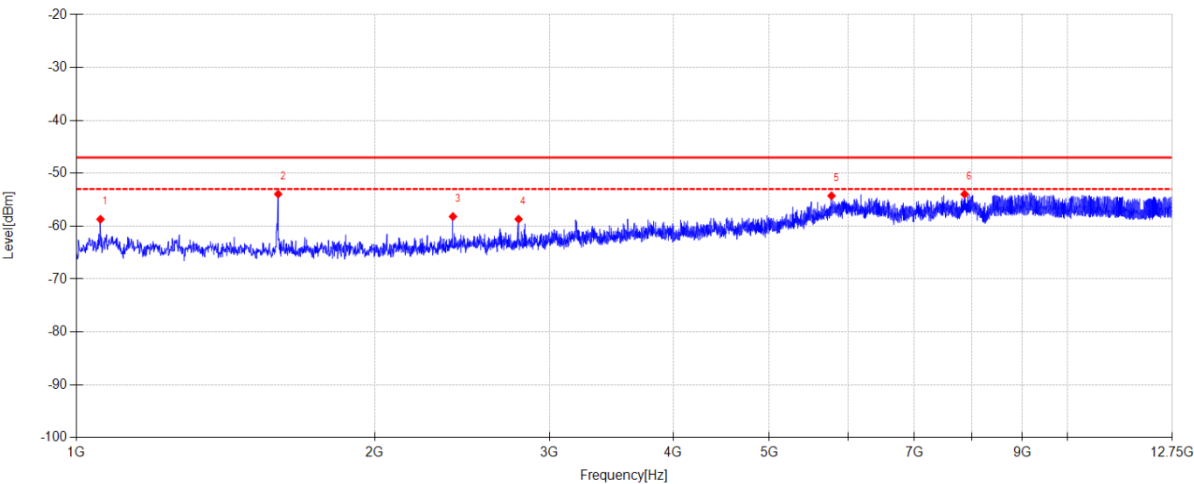
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\6

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1057.575	45.38	-104.08	-58.70	-47.00	11.70	RMS	Vertical	EIRP
2	1598.075	50.36	-104.29	-53.93	-47.00	6.93	RMS	Vertical	EIRP
3	2398.250	45.55	-103.73	-58.18	-47.00	11.18	RMS	Vertical	EIRP
4	2793.050	44.34	-103.01	-58.67	-47.00	11.67	RMS	Vertical	EIRP
5	5777.550	40.87	-95.13	-54.26	-47.00	7.26	RMS	Vertical	EIRP
6	7870.225	39.32	-93.27	-53.95	-47.00	6.95	RMS	Vertical	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

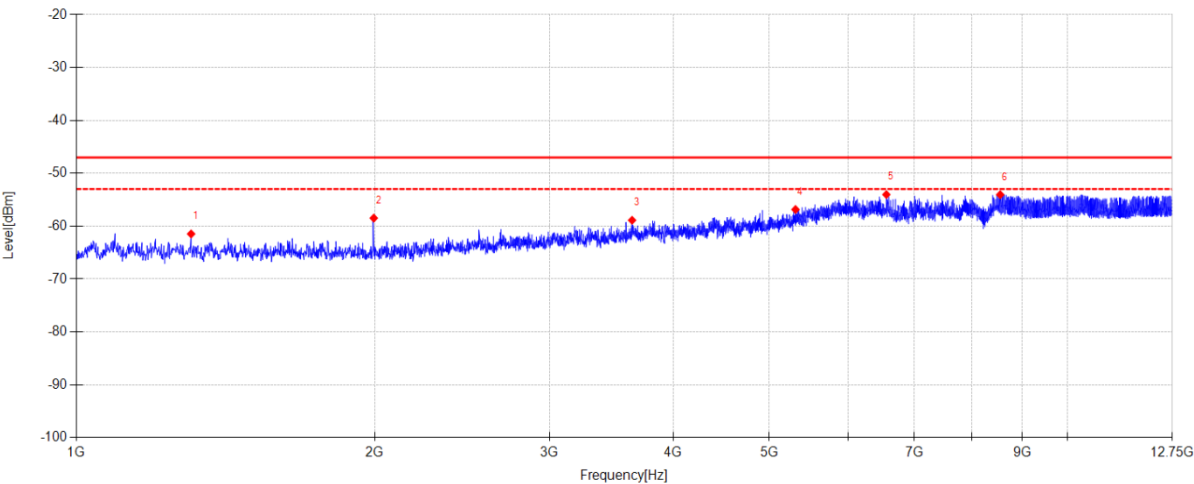
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\7

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1305.500	43.05	-104.52	-61.47	-47.00	14.47	RMS	Horizontal	EIRP
2	1995.225	46.21	-104.69	-58.48	-47.00	11.48	RMS	Horizontal	EIRP
3	3635.525	42.79	-101.67	-58.88	-47.00	11.88	RMS	Horizontal	EIRP
4	5313.425	40.16	-97.01	-56.85	-47.00	9.85	RMS	Horizontal	EIRP
5	6562.450	40.42	-94.44	-54.02	-47.00	7.02	RMS	Horizontal	EIRP
6	8548.200	37.32	-91.36	-54.04	-47.00	7.04	RMS	Horizontal	EIRP

Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-11-12

Tested By:

Li Xiongbín

EUT:

BLUETOOTH HEADSET

Model Number:

LIVE BEAM 4

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.3°C;Humi:54.4%

Test Site:

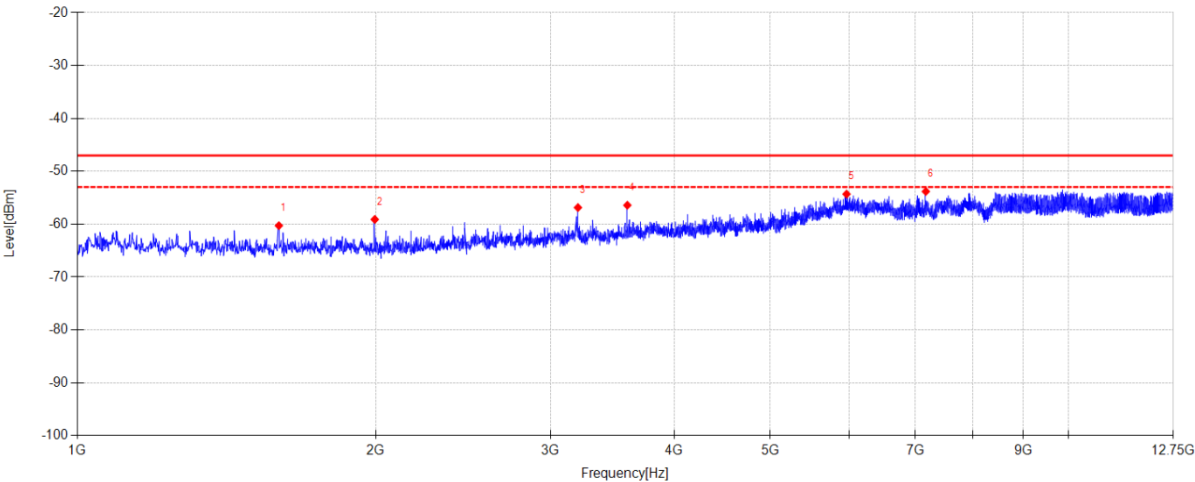
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25103101-4E\CE Above 1G BT\8

Memo:

Right Side Sample Number:S25103101-014



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1596.900	44.01	-104.29	-60.28	-47.00	13.28	RMS	Vertical	EIRP
2	1995.225	45.33	-104.43	-59.10	-47.00	12.10	RMS	Vertical	EIRP
3	3198.425	45.47	-102.33	-56.86	-47.00	9.86	RMS	Vertical	EIRP
4	3587.350	45.31	-101.73	-56.42	-47.00	9.42	RMS	Vertical	EIRP
5	5969.075	39.91	-94.23	-54.32	-47.00	7.32	RMS	Vertical	EIRP
6	7175.800	40.71	-94.52	-53.81	-47.00	6.81	RMS	Vertical	EIRP

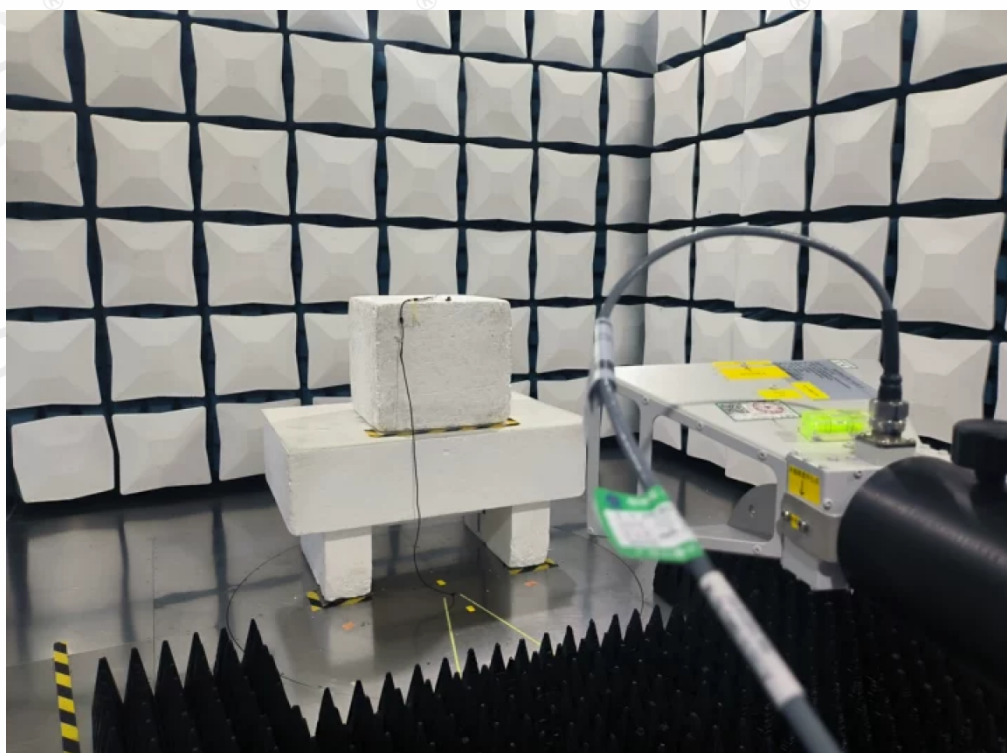
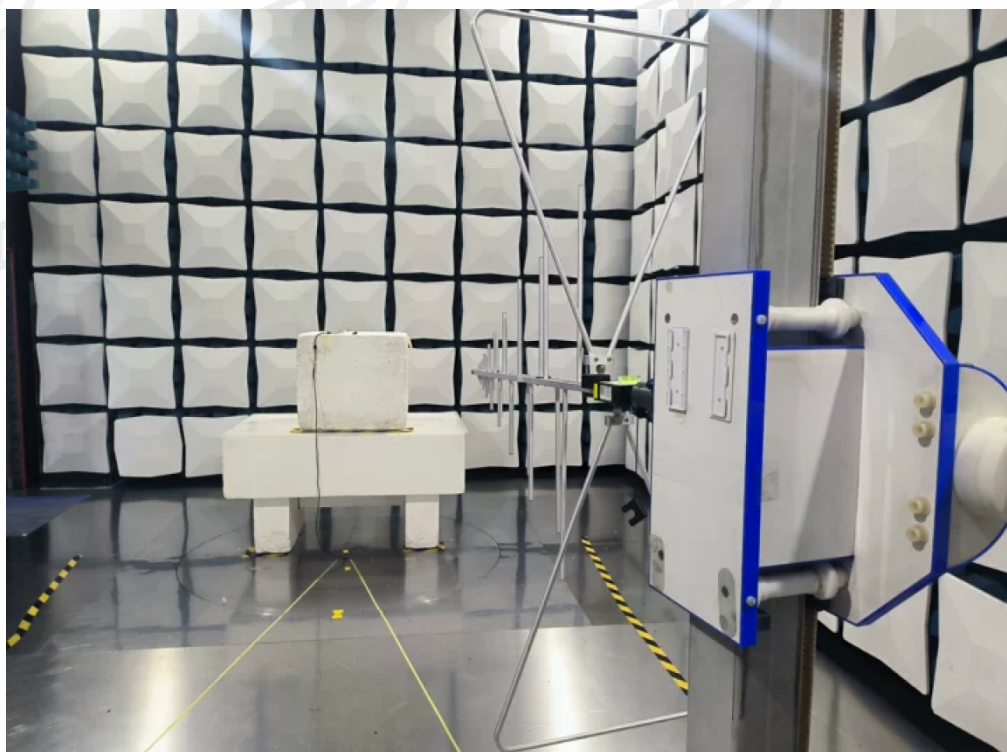
Note:

1. Level = Reading + Factor.

2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Test Setup Photograph





13. Photos of the EUT

Please refer to DDT-Q25103101-2E appendix I

-----End Report-----