



RADIO TEST REPORT

Applicant	:	XGIMI Technology Co., Ltd
Address of Applicant	:	Building No.4, Zone A, No.1129, Shijicheng Road, Chengdu High-tech Zone, Sichuan Pilot Free Trade Zone, China
Manufacturer	:	XGIMI Technology Co., Ltd
Address of Manufacturer	:	Building No.4, Zone A, No.1129, Shijicheng Road, Chengdu High-tech Zone, Sichuan Pilot Free Trade Zone, China
Equipment under Test	:	Projector
Model No.	:	XR03B, XR06B
Test Standard(s)	:	EN 300 328 V2.2.2 (2019-07)
Report No.	:	DDT-RE25090923-2E02
Issue Date	:	2026/01/30
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

Applicant	:	XGIMI Technology Co., Ltd
Address of Applicant	:	Building No.4, Zone A, No.1129, Shijicheng Road, Chengdu High-tech Zone,Sichuan Pilot Free Trade Zone,China
Equipment under Test	:	Projector
Model No.	:	XR03B, XR06B
Manufacturer	:	XGIMI Technology Co., Ltd
Address of Manufacturer	:	Building No.4, Zone A, No.1129, Shijicheng Road, Chengdu High-tech Zone, Sichuan Pilot Free Trade Zone,China

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-RE25090923-2E02		
Date of Receipt:	2025/09/01	Date of Test:	2025/09/03 - 2025/12/19

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Damon Hu
		
2025/12/21	2026/01/30	2026/01/30

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

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/01/30	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	Pass
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	: Projector
Model Number	: XR03B, XR06B
Difference of model number	: Both models listed in the test report are identical except for different model name, internal DC fans, laser module and main board with a few differences. The test model is XR03B (worst case).
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V/50/60Hz
Antenna Type	: FPC antenna
Max Antenna Gain (dBi)	: 4.72

Radio Specification	: Bluetooth BR/EDR
Operation Frequency	: 2402 MHz to 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Rate	: 1 Mbps, 2 Mbps, 3 Mbps

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

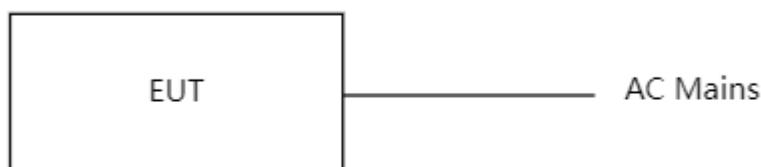
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	/	
26	2428	53	2455	/	

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.

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: WCN Combo Tool.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	Default	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	Default	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	Default	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	Default	CH0	2402
	Default	CH39	2441
	Default	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	Default	CH0	2402
	Default	CH39	2441
	Default	CH78	2480
8DPSK hopping off Tx mode	Default	CH0	2402
	Default	CH39	2441
	Default	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, 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:

/	Normal Conditions	Extreme Conditions
Temperature range	15 °C to 35 °C	0 °C to +40 °C
Humidity range	20% to 75%	N/A
Pressure range	86-106 kPa	N/A
Power supply	NV: AC 230V	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

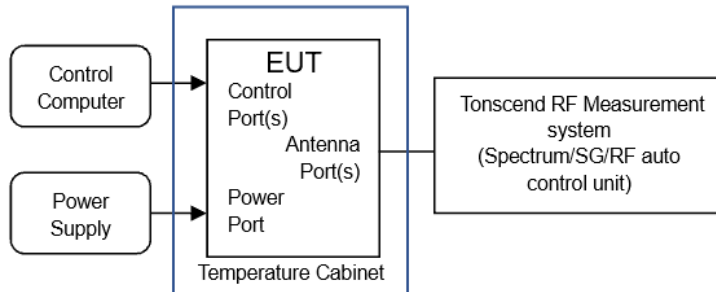
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.40 dB (3.6 GHz $\leq$ f < 8 GHz)
	1.66 dB (8 GHz $\leq$ f < 26.5 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	Cal. Interval
☑RF Connected Test (RF Measurement System 3#)					
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06	1 Year
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28	1 Year
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28	1 Year
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28	1 Year
Test Software	Tonscend	JS1120-3	V3.6.21	N/A	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.

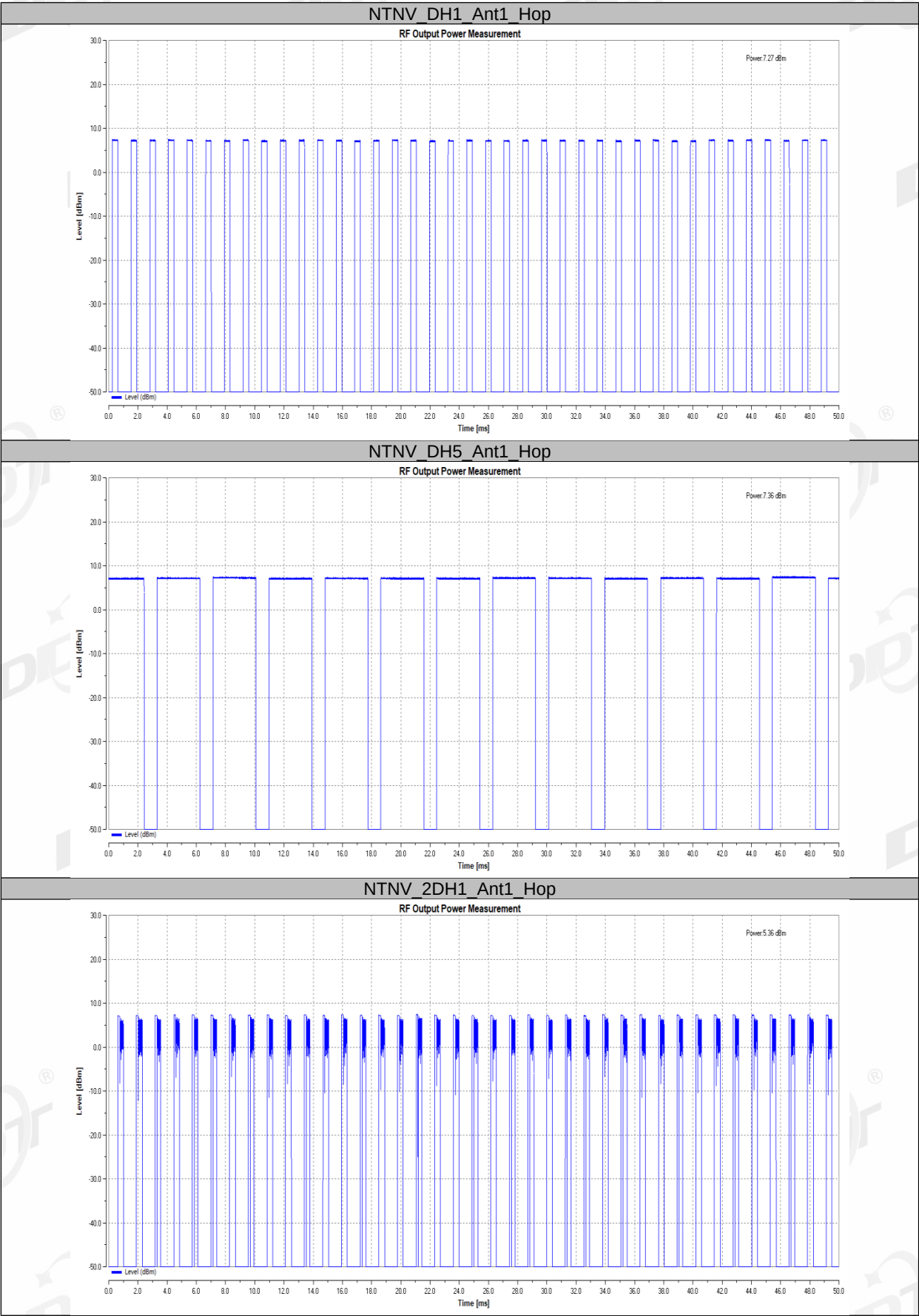
4.4. Test result

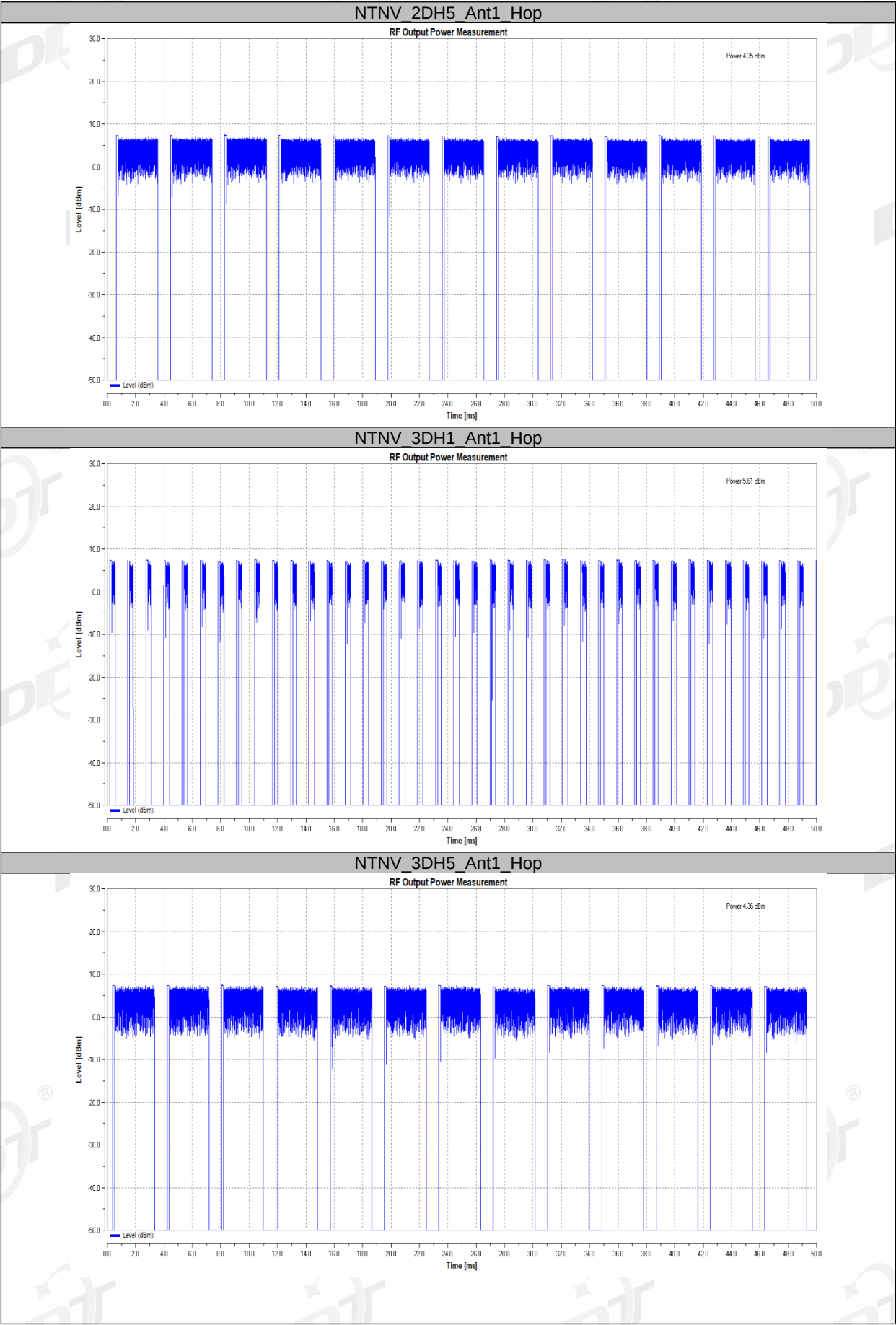
Test Engineer:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.12.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

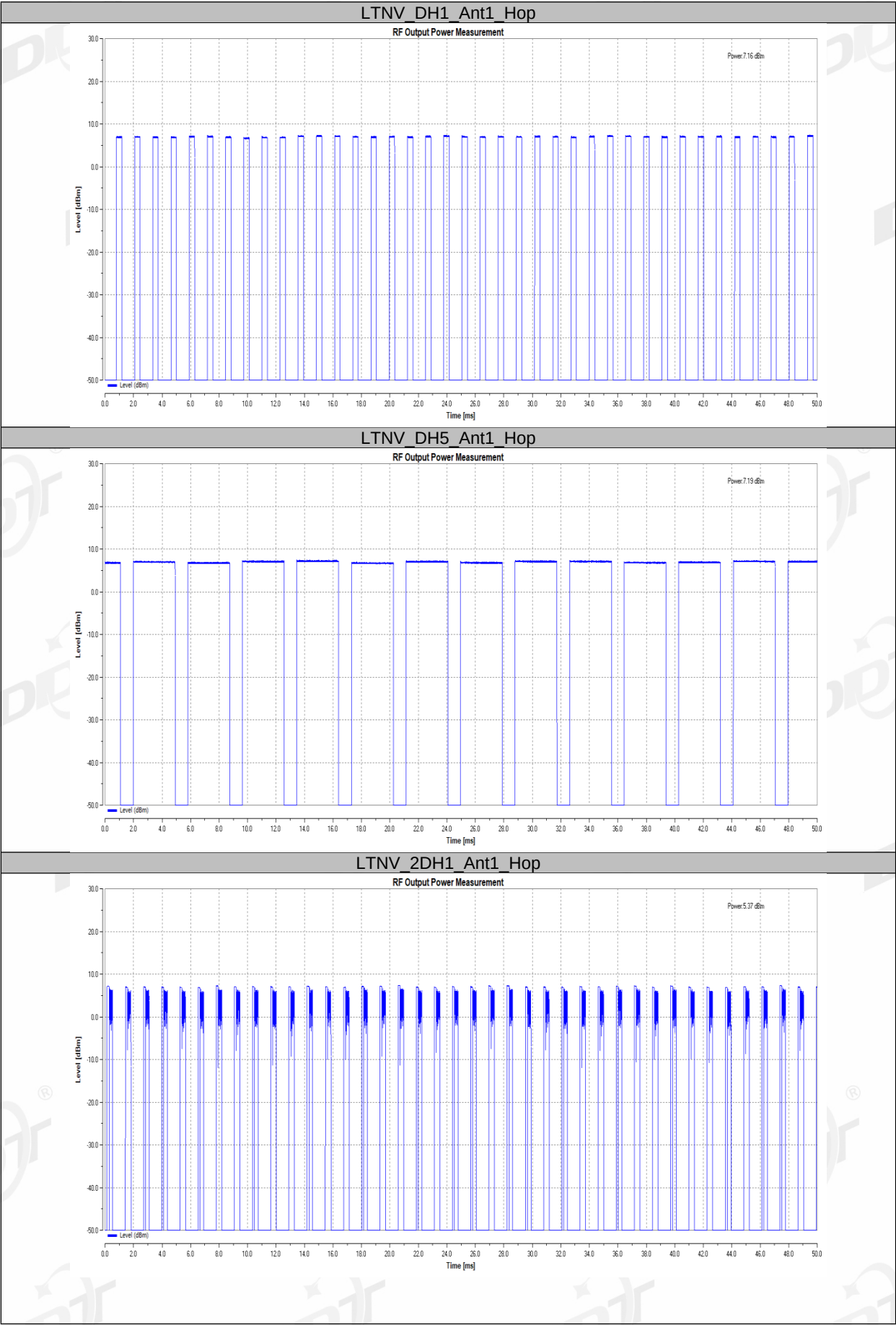
Test Condition	Test Mode	Antenna	Frequency [MHz]	Burst Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
NTNV	DH1	Ant1	Hop	7.27	11.99	20	PASS
	DH5	Ant1	Hop	7.36	12.08	20	PASS
	2DH1	Ant1	Hop	5.36	10.08	20	PASS
	2DH5	Ant1	Hop	4.35	9.07	20	PASS
	3DH1	Ant1	Hop	5.61	10.33	20	PASS
	3DH5	Ant1	Hop	4.36	9.08	20	PASS
LTVN	DH1	Ant1	Hop	7.16	11.88	20	PASS
	DH5	Ant1	Hop	7.19	11.91	20	PASS
	2DH1	Ant1	Hop	5.37	10.09	20	PASS
	2DH5	Ant1	Hop	4.17	8.89	20	PASS
	3DH1	Ant1	Hop	5.25	9.97	20	PASS
	3DH5	Ant1	Hop	4.25	8.97	20	PASS
HTNV	DH1	Ant1	Hop	7.15	11.87	20	PASS
	DH5	Ant1	Hop	7.11	11.83	20	PASS
	2DH1	Ant1	Hop	5.33	10.05	20	PASS
	2DH5	Ant1	Hop	4.12	8.84	20	PASS
	3DH1	Ant1	Hop	5.32	10.04	20	PASS
	3DH5	Ant1	Hop	4.17	8.89	20	PASS

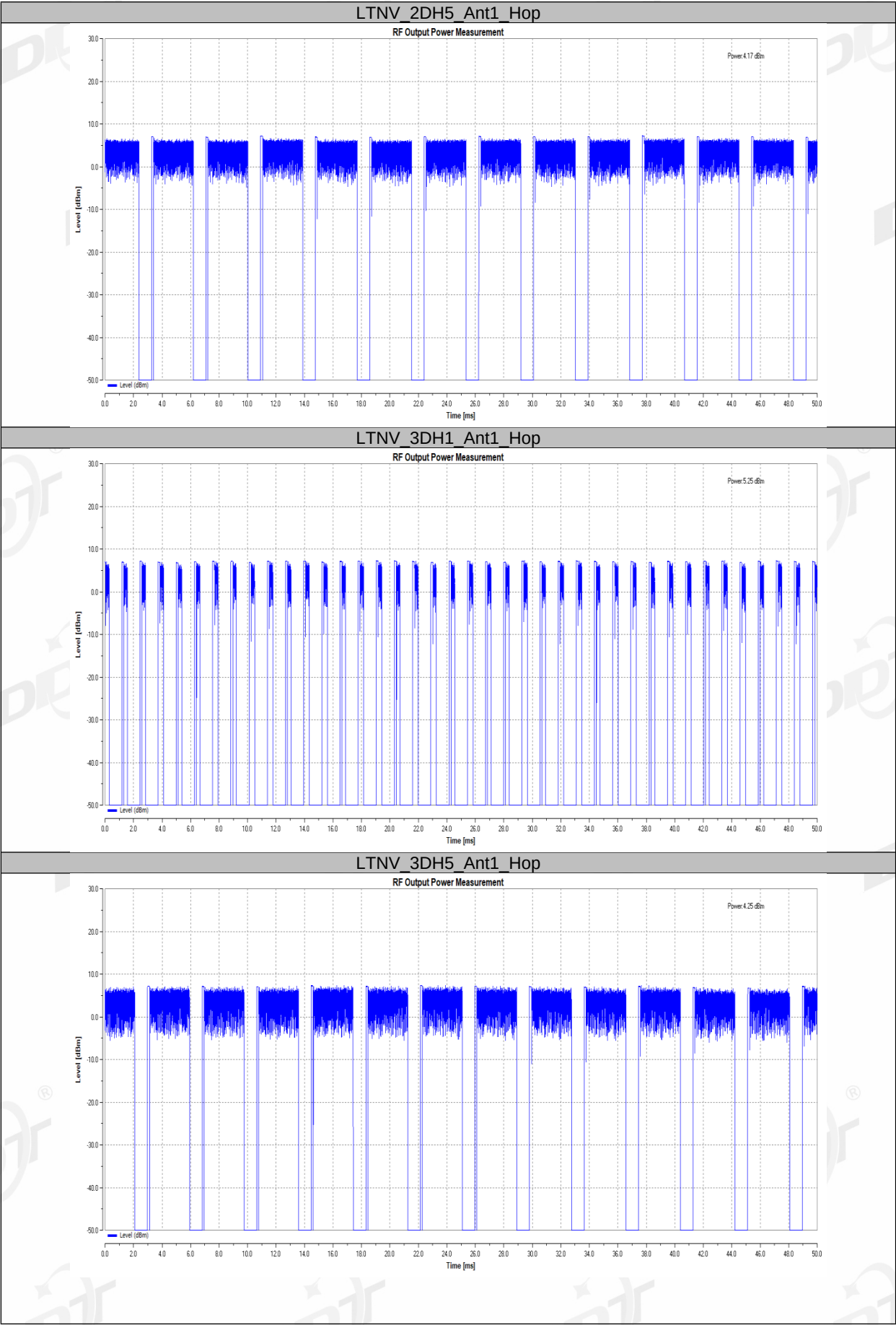
Note: EIRP = Measured Highest Pburst Values + Antenna Gain

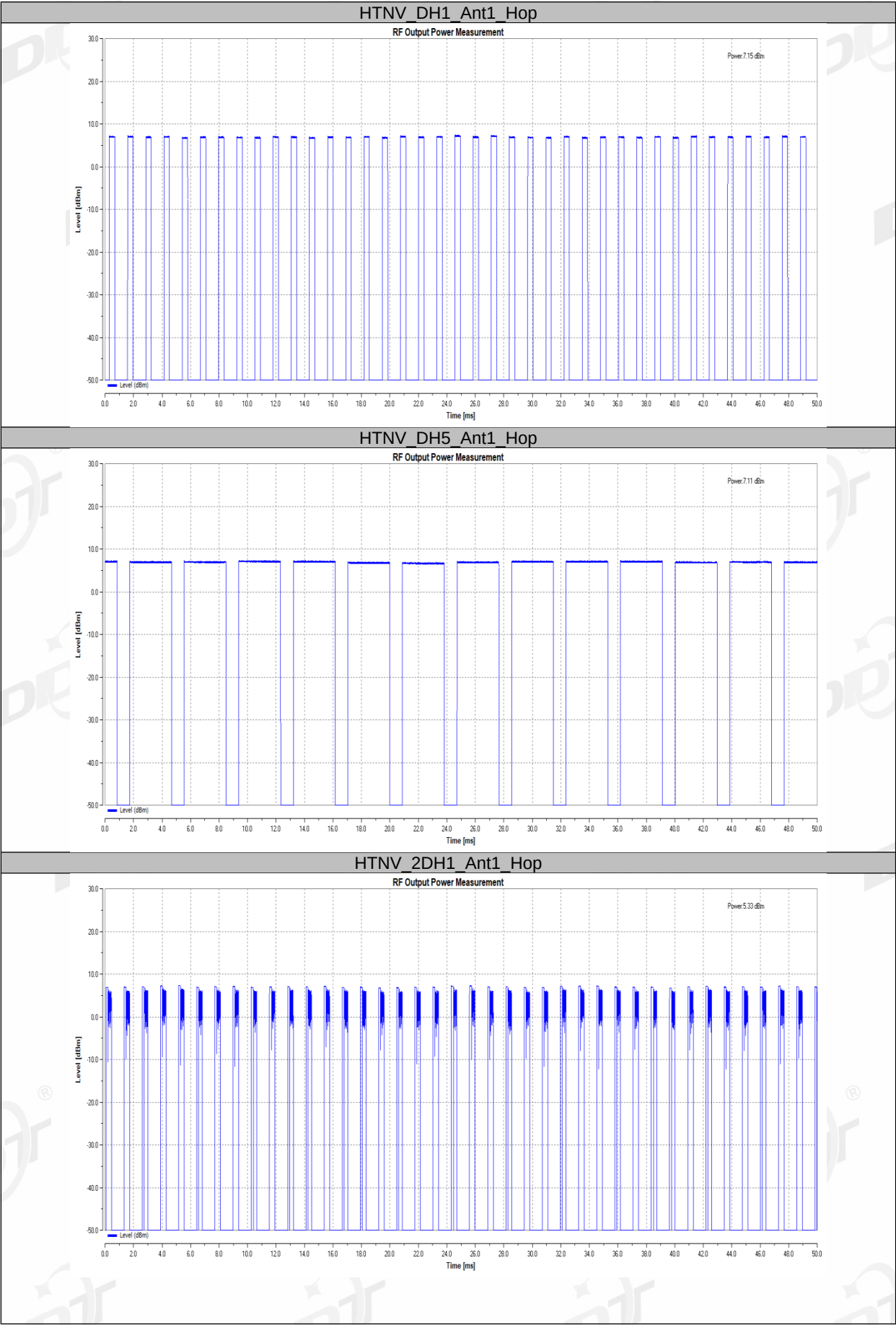
4.5. Test graphs

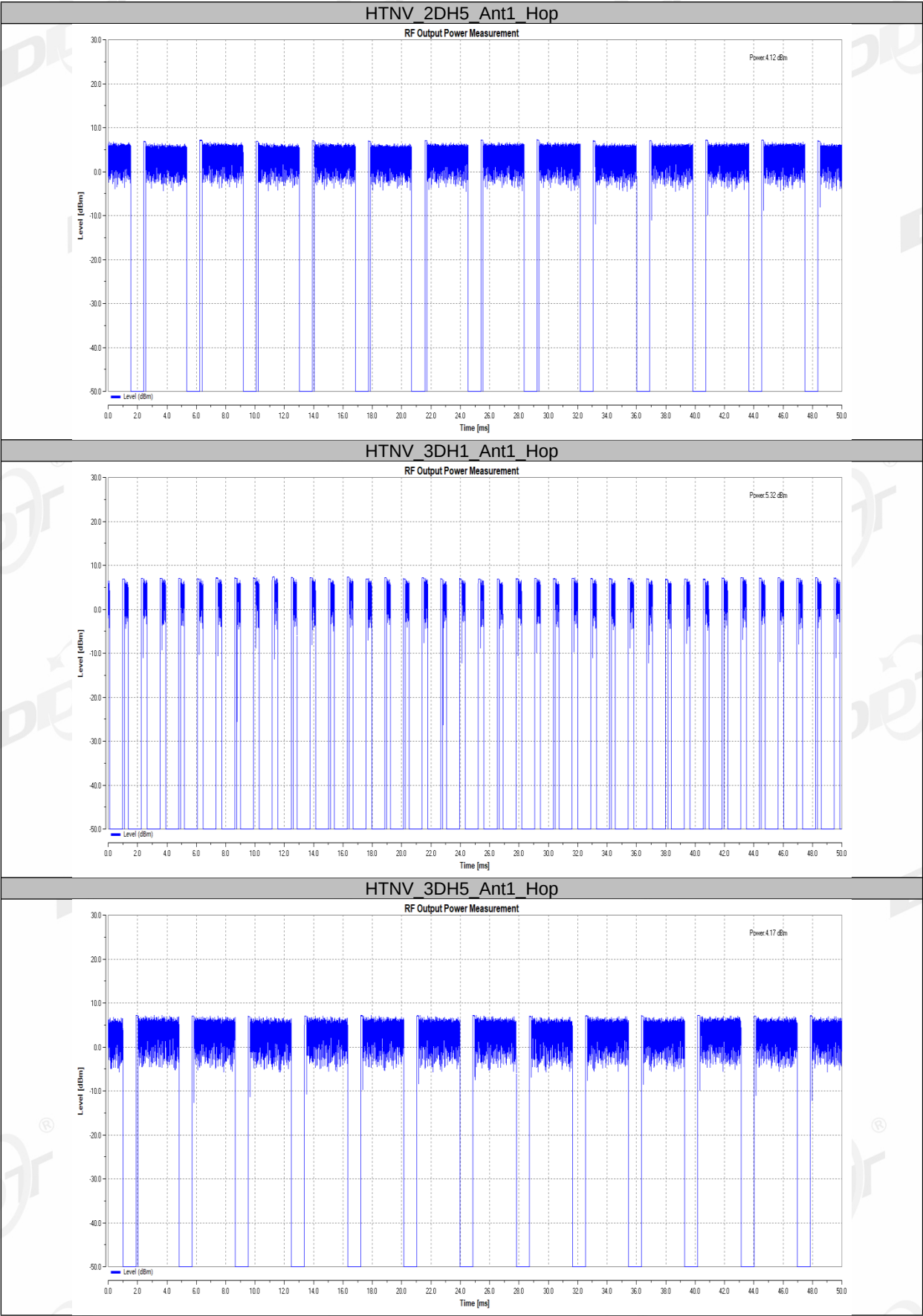






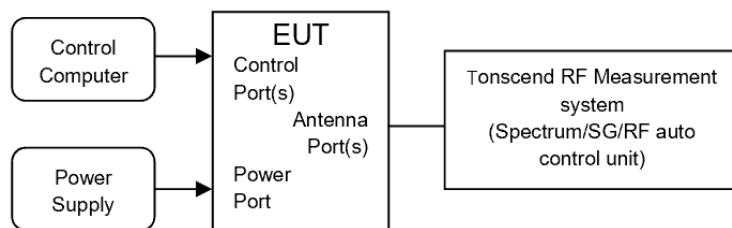






5. Occupied Channel Bandwidth

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 × Nominal Channel Bandwidth
RBW:	~ 1 % of the span without going below 1 %
VBW:	3 × RBW
Detector Mode:	RMS
Sweep time:	1s
Trace Mode:	Max Hold

- (6) 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:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.12.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

Test Mode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH1	Ant1	2402	0.73526	2401.6424	2402.3776	2400 to 2483.5	PASS
		2480	0.73526	2479.6424	2480.3776	2400 to 2483.5	PASS
DH5	Ant1	2402	0.76523	2401.6324	2402.3976	2400 to 2483.5	PASS
		2480	0.76523	2479.6324	2480.3976	2400 to 2483.5	PASS
2DH1	Ant1	2402	1.1269	2401.4446	2402.5714	2400 to 2483.5	PASS
		2480	1.1269	2479.4446	2480.5714	2400 to 2483.5	PASS
2DH5	Ant1	2402	1.1768	2401.4246	2402.6014	2400 to 2483.5	PASS
		2480	1.1748	2479.4246	2480.5994	2400 to 2483.5	PASS
3DH1	Ant1	2402	1.1409	2401.4505	2402.5914	2400 to 2483.5	PASS
		2480	1.1369	2479.4525	2480.5894	2400 to 2483.5	PASS
3DH5	Ant1	2402	1.1888	2401.4206	2402.6094	2400 to 2483.5	PASS
		2480	1.1868	2479.4226	2480.6094	2400 to 2483.5	PASS

5.5. Test graphs



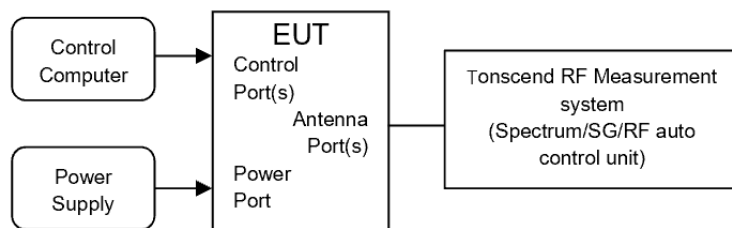






6. Accumulated Transmit Time, Frequency Occupation & Hopping Sequence

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:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.9.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

Accumulated Transmit Time

Test Mode	Antenna	Channel	Result [ms]	Limit [ms]	Verdict
DH5	Ant1	Hop_2402	320.203	400	PASS
		Hop_2480	268.592	400	PASS
2DH5	Ant1	Hop_2402	260.165	400	PASS
		Hop_2480	321.257	400	PASS
3DH5	Ant1	Hop_2402	286.498	400	PASS
		Hop_2480	288.604	400	PASS

Frequency Occupation

Test Mode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Ant1	Hop_2402	6	1	PASS
		Hop_2480	1	1	PASS
2DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS
3DH5	Ant1	Hop_2402	2	1	PASS
		Hop_2480	1	1	PASS

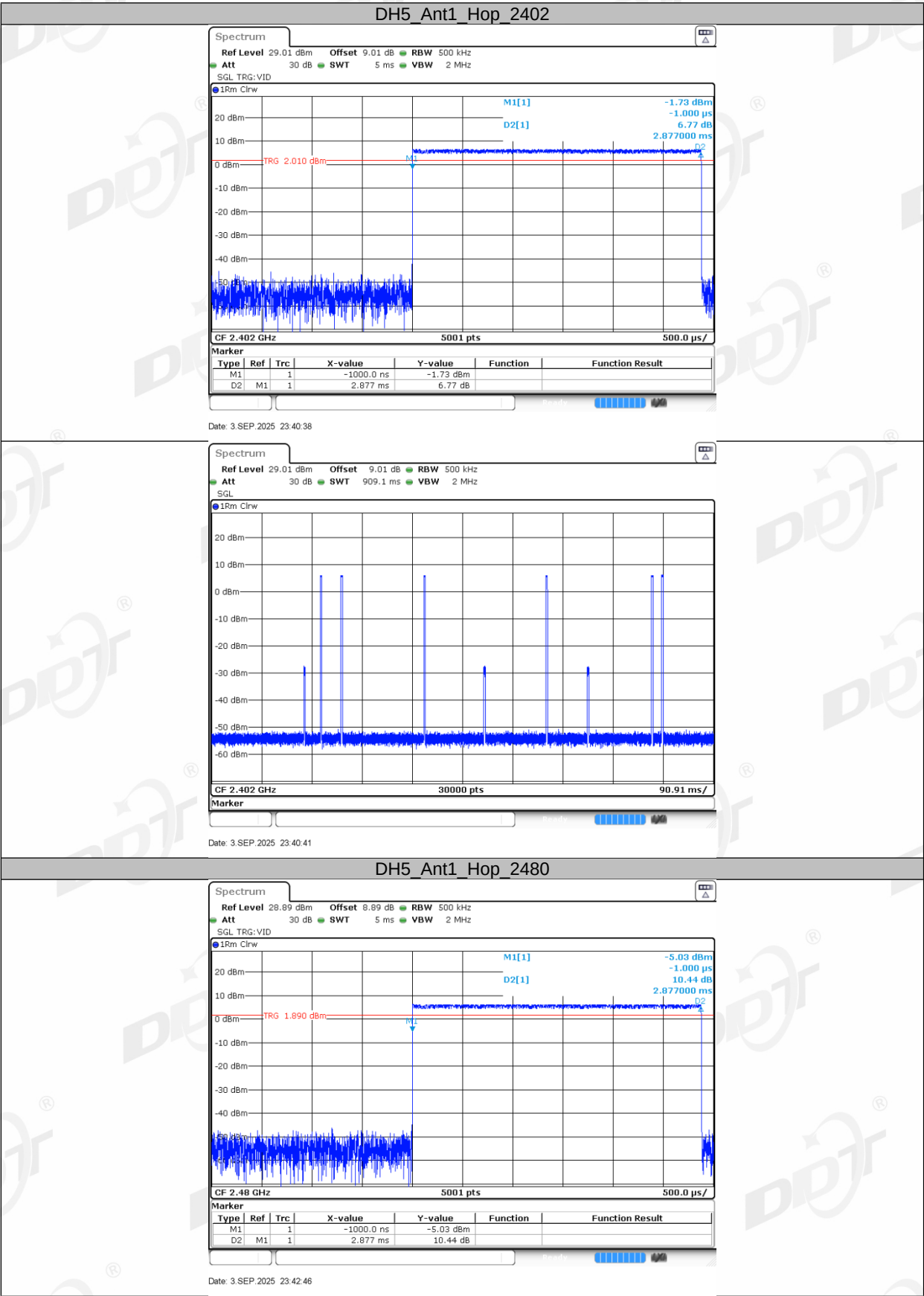
Hopping Sequence

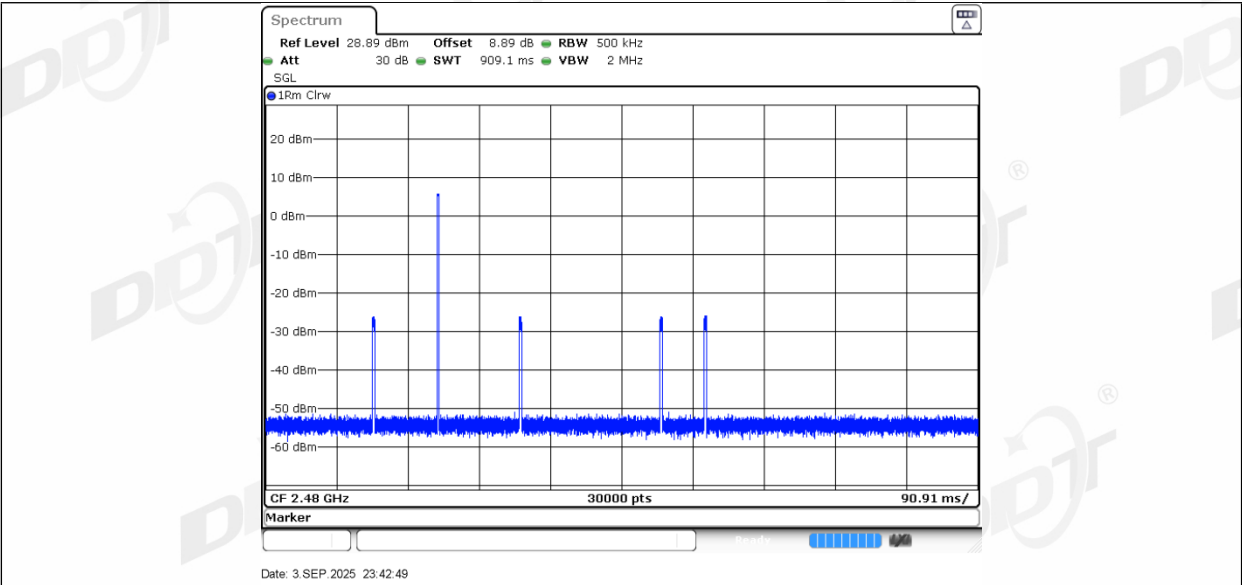
Test Mode	Antenna	Channel	Hop. [Num.]	Limit [Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	79	15	95.50	70	PASS
		Hop_2480	79	15	95.60	70	PASS
2DH5	Ant1	Hop_2402	79	15	95.90	70	PASS
		Hop_2480	79	15	96.00	70	PASS
3DH5	Ant1	Hop_2402	79	15	96.00	70	PASS
		Hop_2480	79	15	96.00	70	PASS

6.5. Test graphs

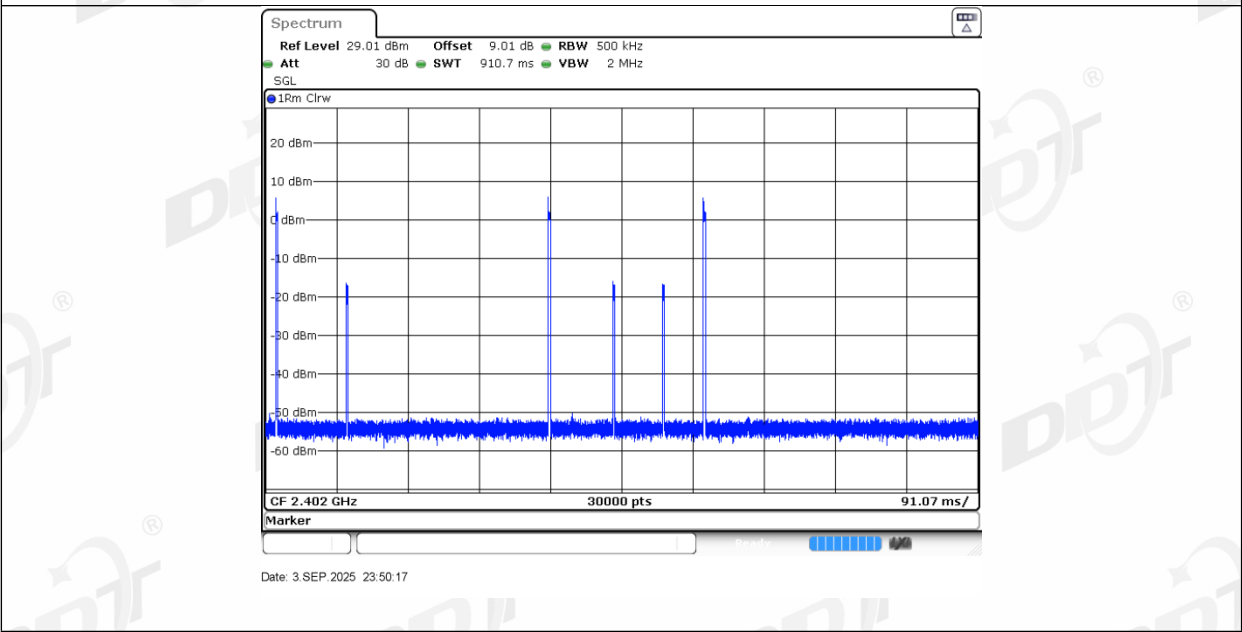
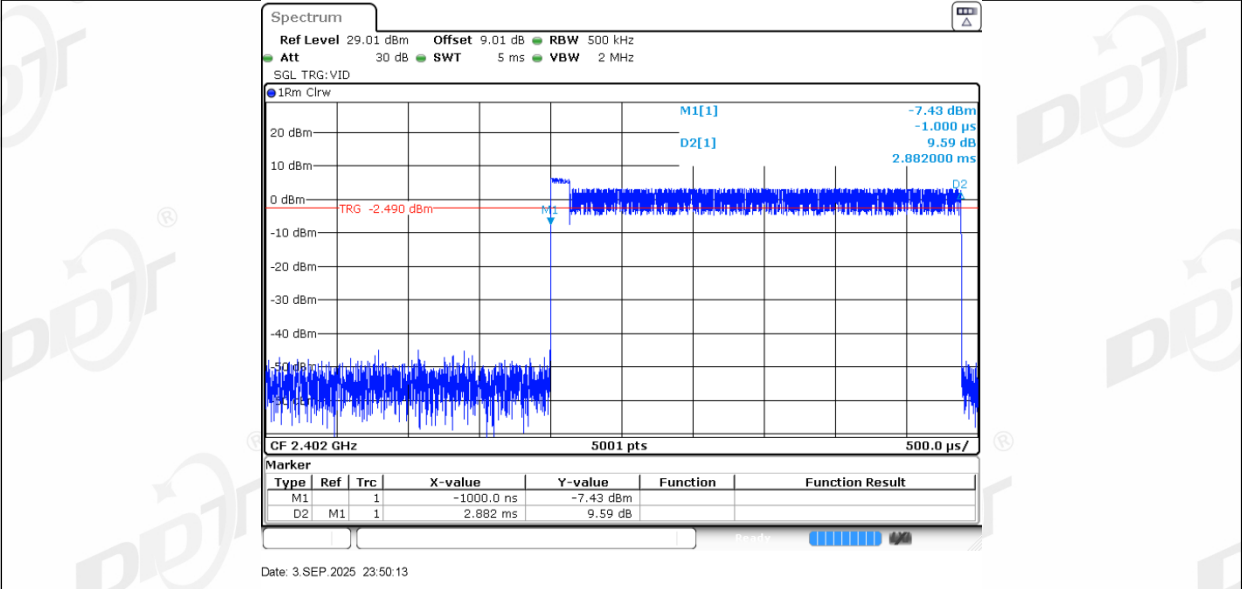




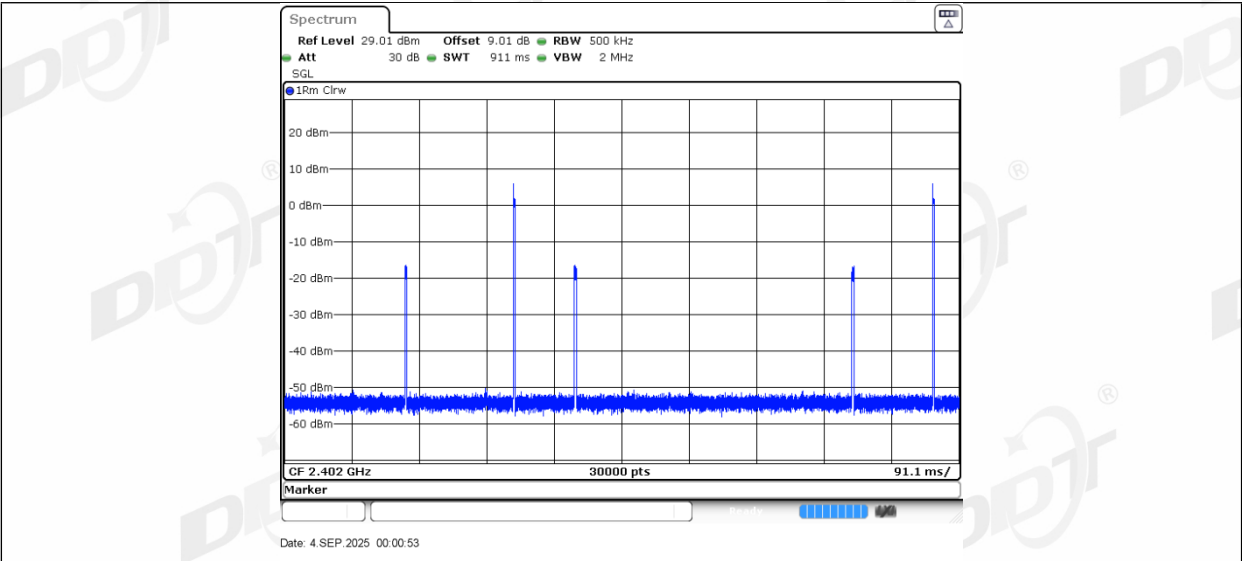




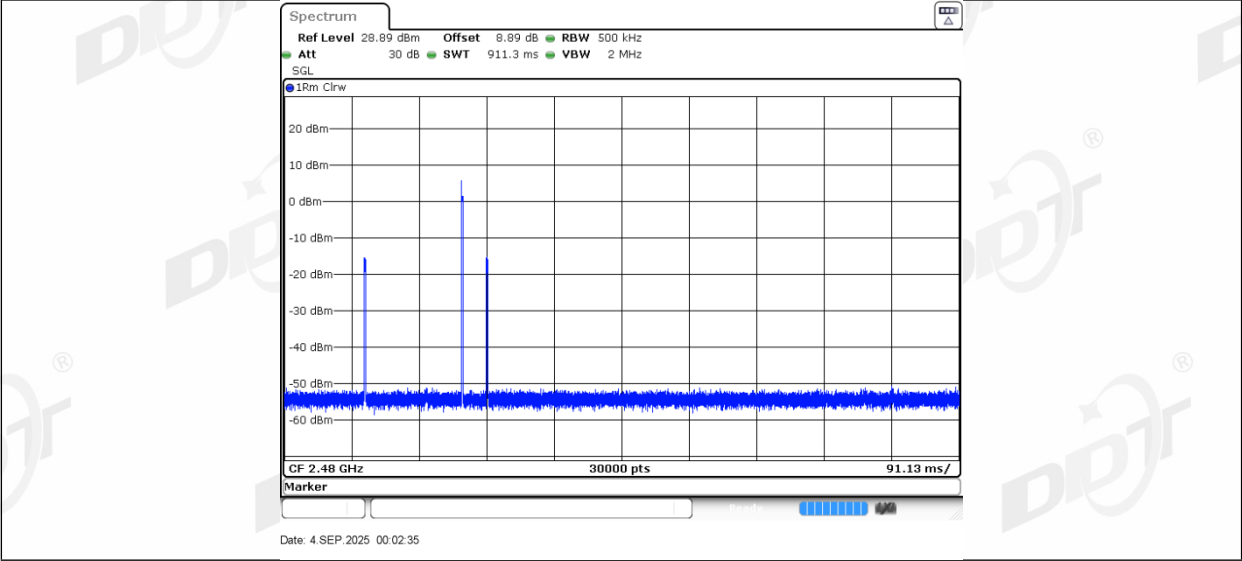
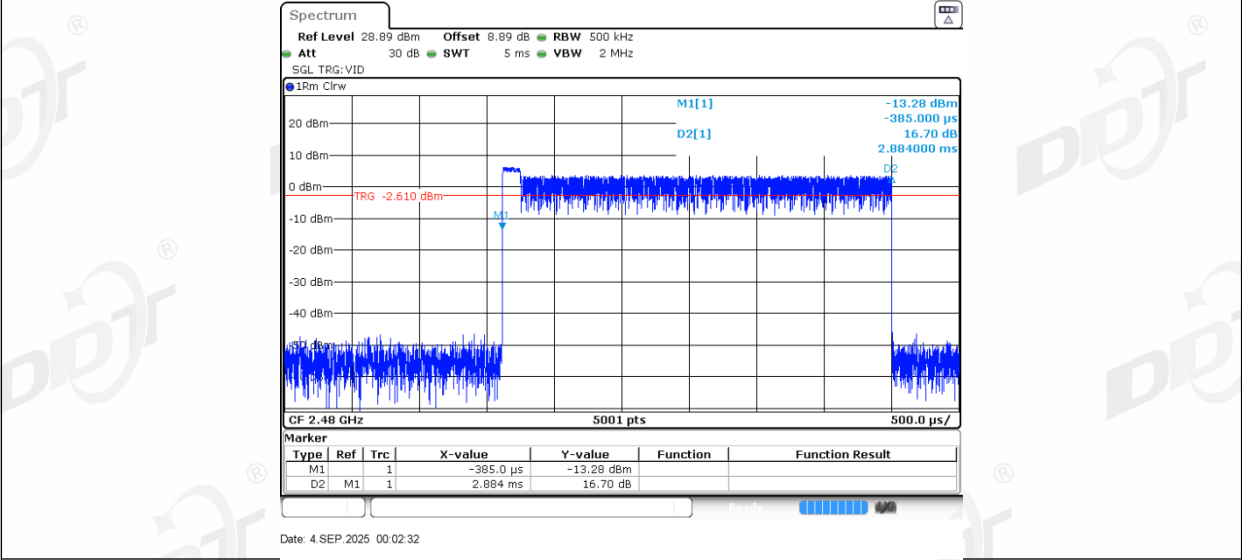
2DH5_Ant1_Hop_2402







3DH5_Ant1_Hop_2480

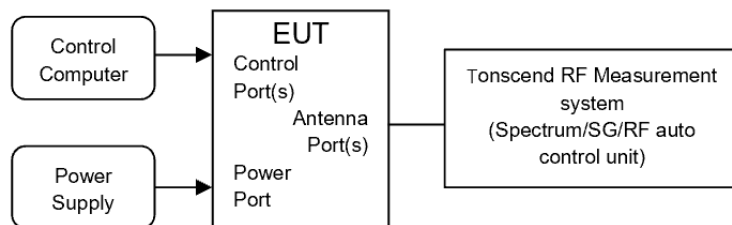






7. Hopping Frequency Separation

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

- (5) 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:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.9.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

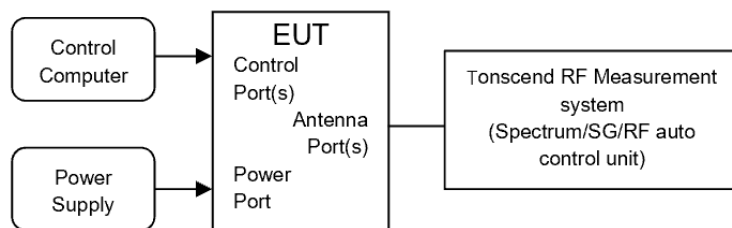
Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.000	0.100	PASS
2DH5	Ant1	Hop	1.000	0.100	PASS
3DH5	Ant1	Hop	1.003	0.100	PASS

7.5. Test graphs



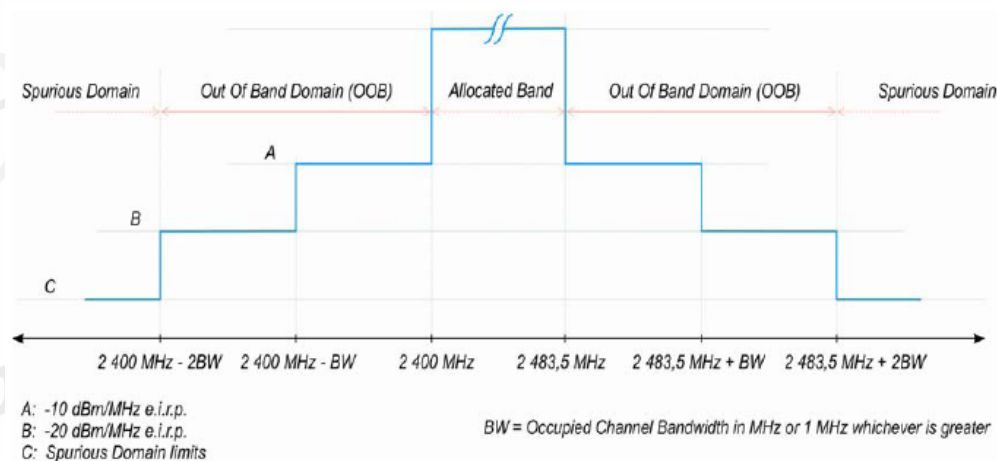
8. Transmitter Unwanted Emissions in The Out-of-band Domain

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

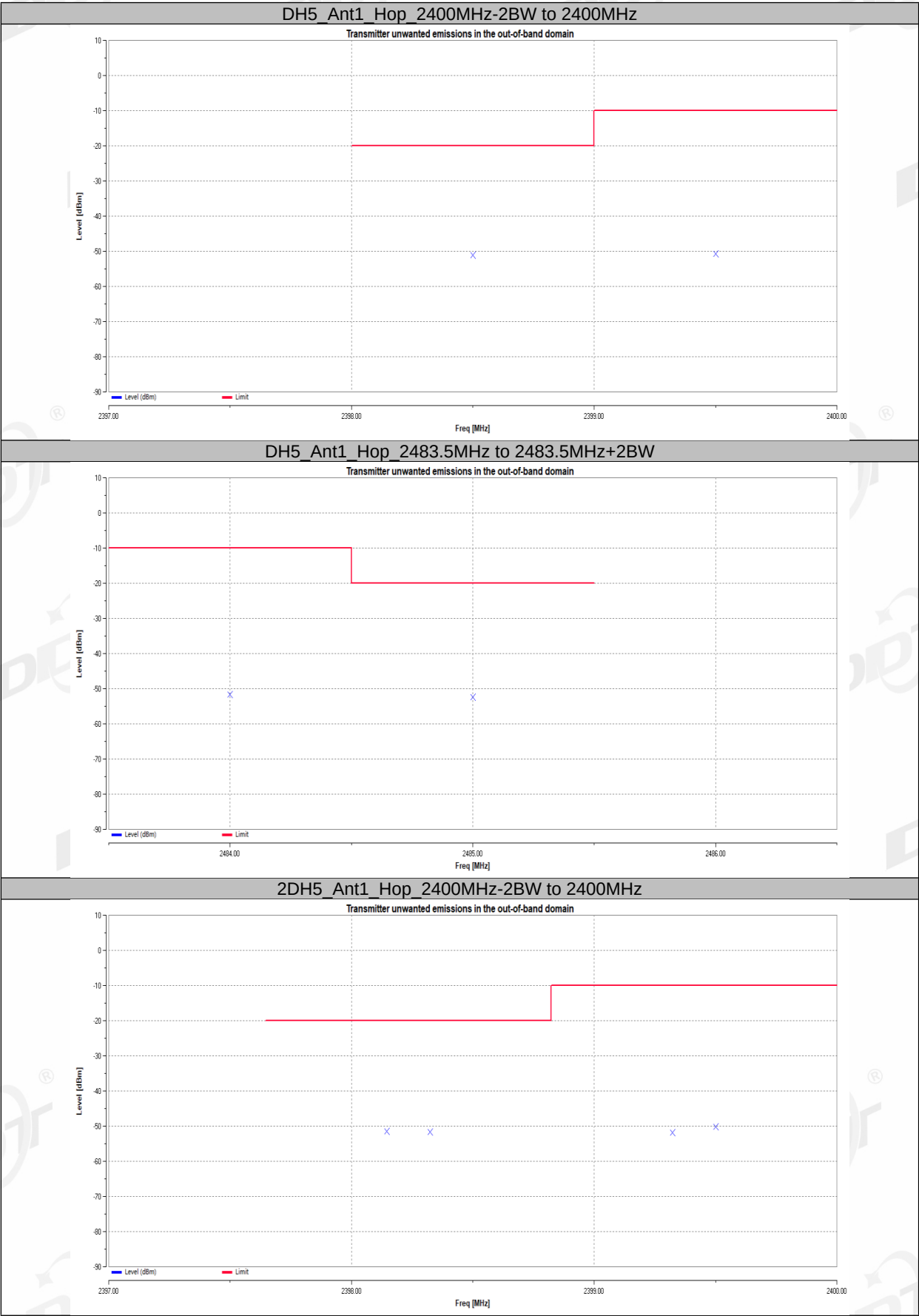
- (1) The test according to EN 300 328 V2.2.2 Clause 5.4.8.2.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Configure EUT work in normal hopping mode.

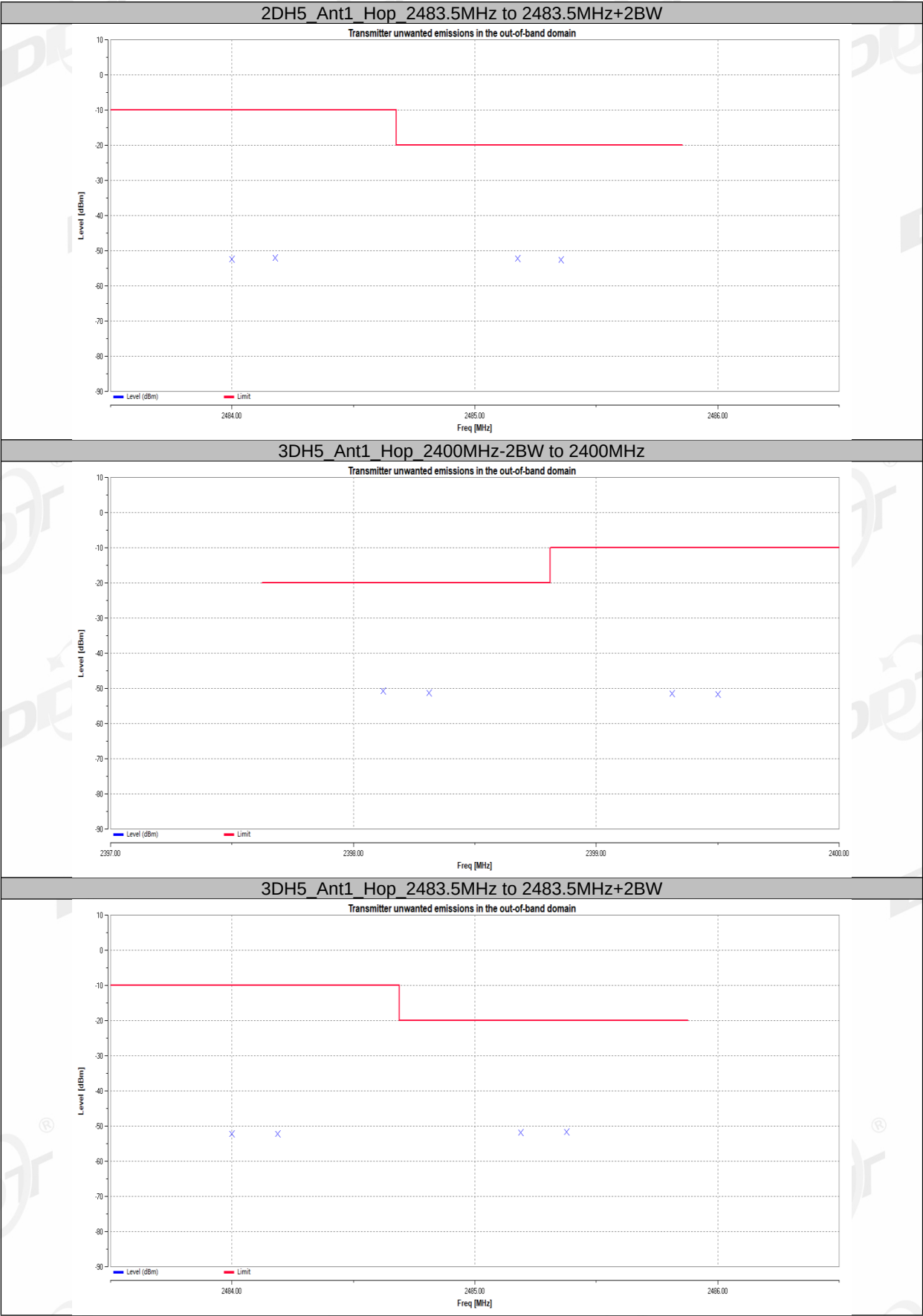
8.4. Test result

Test Engineer:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.9.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

Test Mode	Antenna	Channel	Frequency [MHz]	Level [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Hop	2398.5	-51.13	-20.00	PASS
			2399.5	-50.80	-10.00	PASS
			2484	-51.61	-10.00	PASS
			2485	-52.35	-20.00	PASS
2DH5	Ant1	Hop	2398.1464	-51.45	-20.00	PASS
			2398.3232	-51.69	-20.00	PASS
			2399.3232	-51.87	-10.00	PASS
			2399.5	-50.12	-10.00	PASS
			2484	-52.38	-10.00	PASS
			2484.1768	-52.12	-10.00	PASS
			2485.1768	-52.17	-20.00	PASS
			2485.3536	-52.50	-20.00	PASS
3DH5	Ant1	Hop	2398.1224	-50.81	-20.00	PASS
			2398.3112	-51.29	-20.00	PASS
			2399.3112	-51.50	-10.00	PASS
			2399.5	-51.69	-10.00	PASS
			2484	-52.30	-10.00	PASS
			2484.1888	-52.27	-10.00	PASS
			2485.1888	-51.93	-20.00	PASS
			2485.3776	-51.58	-20.00	PASS

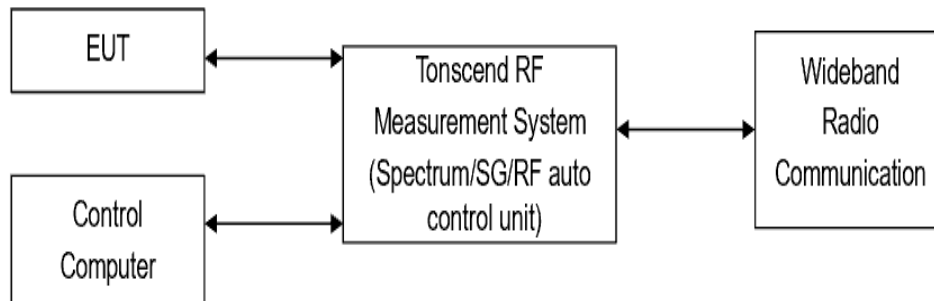
8.5. Test graphs





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 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2380 2504	-34	CW
(-139 dBm + 10 × log ₁₀ (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

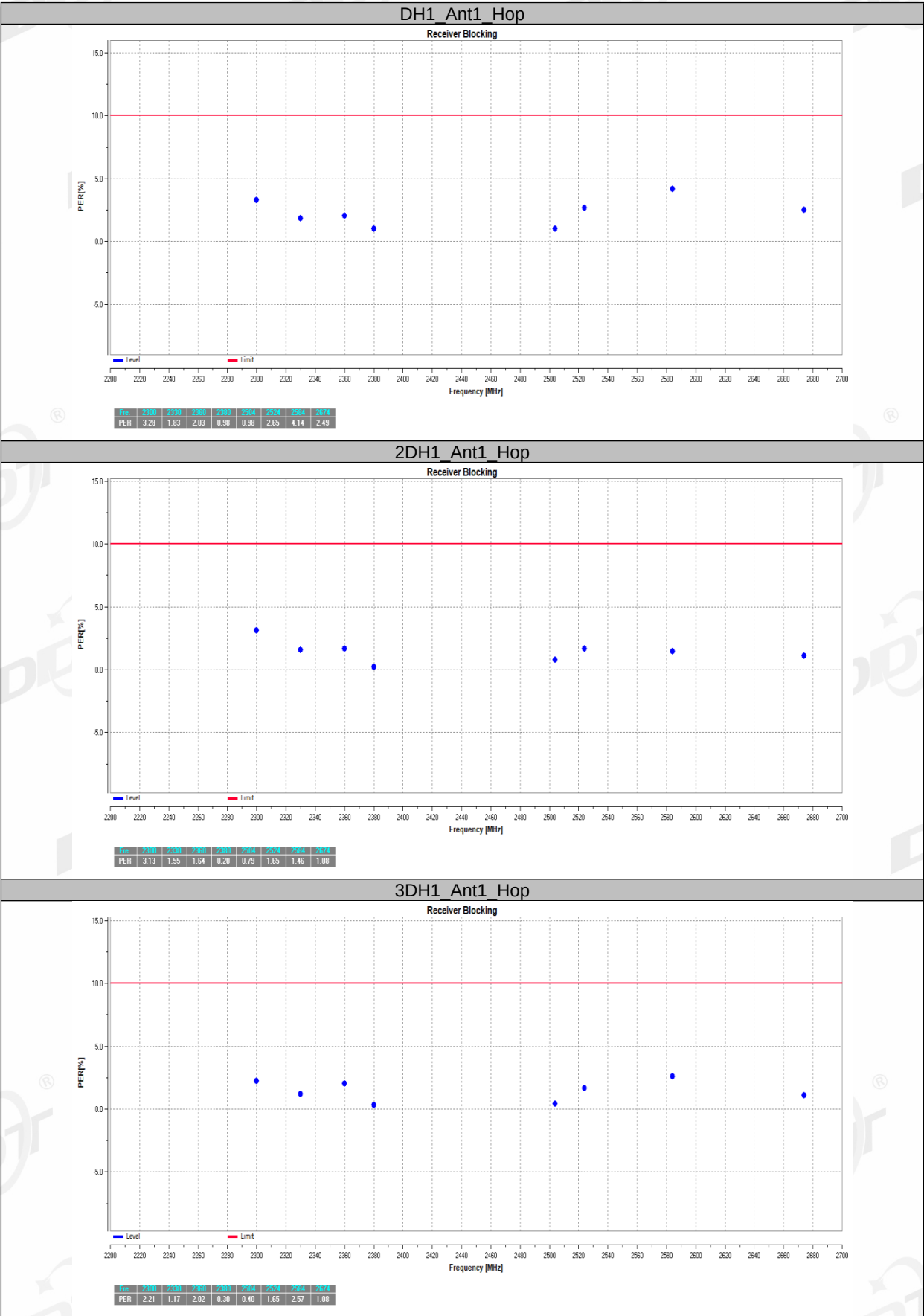
Refer to EN 300 328 V2.2.2 clause 5.4.11.2.1

9.4. Test result

Test Engineer:	Tyang	Test Site:	RF Measurement System 3#
Ambient Condition:	25.6℃, 38.5%RH	Test Date:	2025.12.03-2025.12.04
Test Power Supply:	AC 230V	Sample Number:	S25090923-004

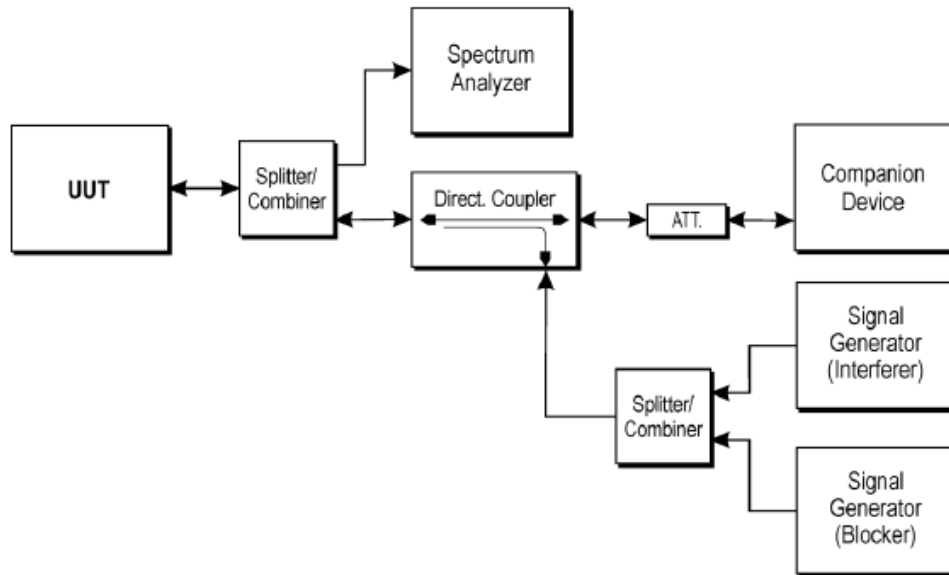
Test Mode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Frequency [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
DH1	Ant1	Hop	---	-75.62	2300	-29.28	3.28	≤10	PASS
			---	-75.62	2330	-29.28	1.83	≤10	PASS
			---	-75.62	2360	-29.28	2.03	≤10	PASS
			---	-69.62	2380	-29.28	0.98	≤10	PASS
			---	-69.62	2504	-29.28	0.98	≤10	PASS
			---	-75.62	2524	-29.28	2.65	≤10	PASS
			---	-75.62	2584	-29.28	4.14	≤10	PASS
			---	-75.62	2674	-29.28	2.49	≤10	PASS
2DH1	Ant1	Hop	---	-73.76	2300	-29.28	3.13	≤10	PASS
			---	-73.76	2330	-29.28	1.55	≤10	PASS
			---	-73.76	2360	-29.28	1.64	≤10	PASS
			---	-67.76	2380	-29.28	0.20	≤10	PASS
			---	-67.76	2504	-29.28	0.79	≤10	PASS
			---	-73.76	2524	-29.28	1.65	≤10	PASS
			---	-73.76	2584	-29.28	1.46	≤10	PASS
			---	-73.76	2674	-29.28	1.08	≤10	PASS
3DH1	Ant1	Hop	---	-73.71	2300	-29.28	2.21	≤10	PASS
			---	-73.71	2330	-29.28	1.17	≤10	PASS
			---	-73.71	2360	-29.28	2.02	≤10	PASS
			---	-67.71	2380	-29.28	0.30	≤10	PASS
			---	-67.71	2504	-29.28	0.40	≤10	PASS
			---	-73.71	2524	-29.28	1.65	≤10	PASS
			---	-73.71	2584	-29.28	2.57	≤10	PASS
			---	-73.71	2674	-29.28	1.08	≤10	PASS

9.5. Test graphs



10. Adaptivity

10.1. Block diagram of test setup



10.2. Requirement

Adaptive Frequency Hopping equipment using non-LBT based DAA, shall comply with the following minimum set of requirements:

- (1) During normal operation, the equipment shall evaluate the presence of a signal for each of its hopping frequencies. If it is determined that a signal is present with a level above the detection threshold defined in step 5 the hopping frequency shall be marked as 'unavailable'.
- (2) The hopping frequency shall remain unavailable for a minimum time equal to 1 second or 5 times the actual number of hopping frequencies in the current (adapted) channel map used by the equipment, multiplied with the Channel Occupancy Time whichever is greater. There shall be no transmissions during this period on this hopping frequency. After this, the hopping frequency may be considered again as an 'available' frequency.
- (3) The total time during which an equipment has transmissions on a given hopping frequency without re-evaluating the availability of that hopping frequency is defined as the Channel Occupancy Time.

The Channel Occupancy Time for a given hopping frequency shall be less than 40 ms. For equipment using a dwell time > 40 ms that wants to have other transmissions during the same hop (dwell time) an Idle Period (no transmissions) of minimum 5 % of the Channel Occupancy Period with a minimum of 100 μ s shall be implemented. After the Idle Period has expired, the procedure as in step 1 needs to be repeated before having new transmissions on this hopping

frequency during the same dwell time.

For non-LBT based frequency hopping equipment with a dwell time < 40 ms, the maximum Channel Occupancy Time may be non-contiguous, i.e. spread over a number of hopping sequences (equal to 40 ms divided by the dwell time [ms]).

- (4) 'Unavailable' channels may be removed from or may remain in the hopping sequence, but in any case:
- apart from the Short Control Signalling Transmissions referred to in clause 4.3.1.7.4 of ETSI 300 328 V2.2.2, there shall be no transmissions on 'unavailable' channels;
 - a minimum of N hopping frequencies as defined in clause 4.3.1.4.3.2 (ETSI 300 328 V2.2.2) shall always be maintained.
- (5) The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels below 20 dBm e.i.r.p., the detection threshold level may be relaxed to:
- $$TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / P_{out})$$

The equipment shall comply with the requirements defined in step 1 to step 4 of the present clause in the presence of an unwanted CW signal as defined as below table.

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30 (see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.		
NOTE 2: 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 in front of the UUT antenna (see example below).		

10.3. Test procedure

The analyzer shall be set as follows:

RBW: use next available RBW setting below the measured Occupied Channel Bandwidth

Filter type: Channel Filter

VBW: $\geq$ RBW

Detector Mode: RMS

Centre Frequency: Equal to the hopping frequency to be tested

Span: 0 Hz

Sweep time: > Channel Occupancy Time of the UUT. If the Channel Occupancy Time is non-contiguous (non-LBT based equipment), the sweep time shall be sufficient to cover the period over which the Channel Occupancy Time is spread out

Trace Mode: Clear/Write

Trigger Mode: Video

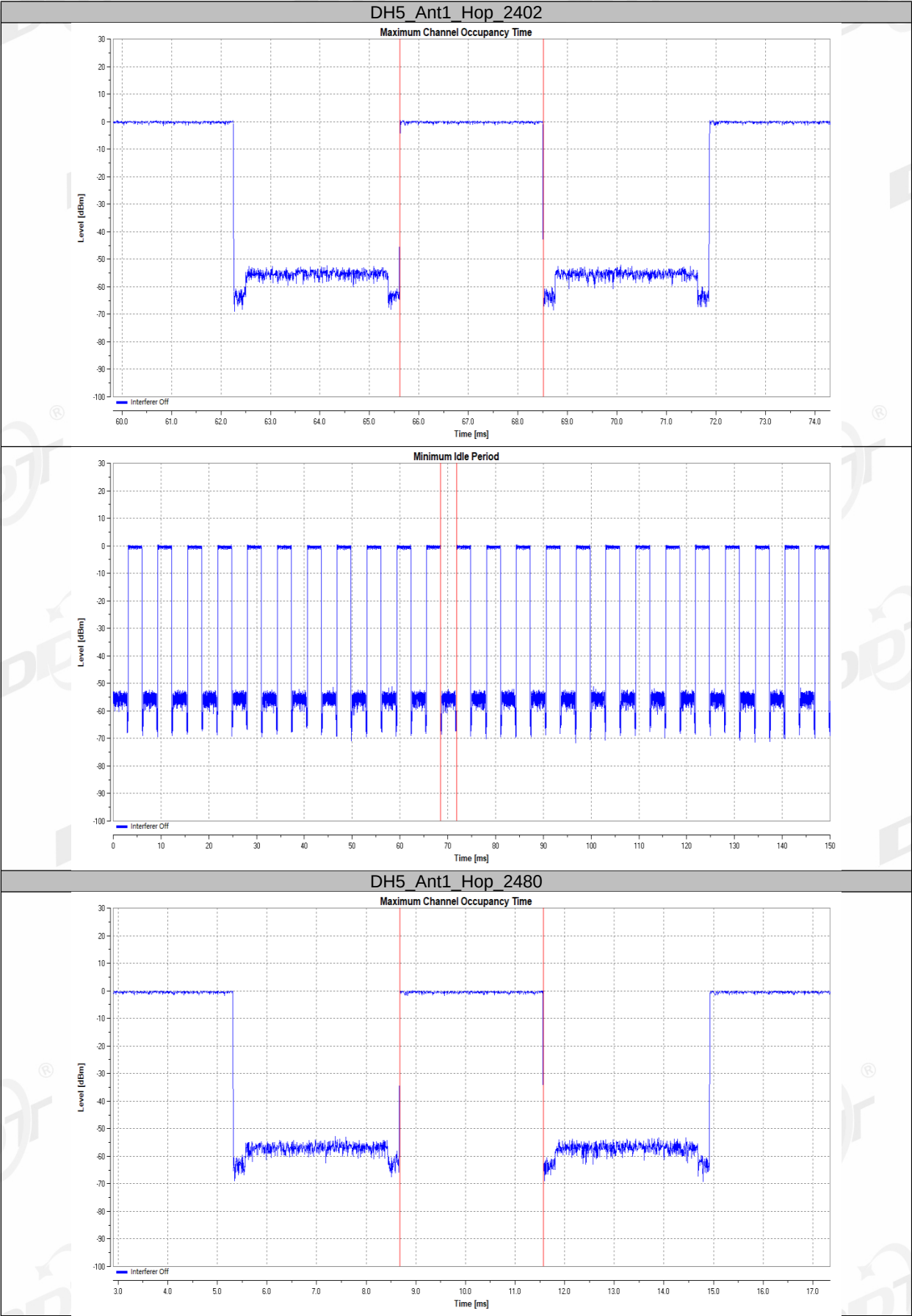
10.4. Test result

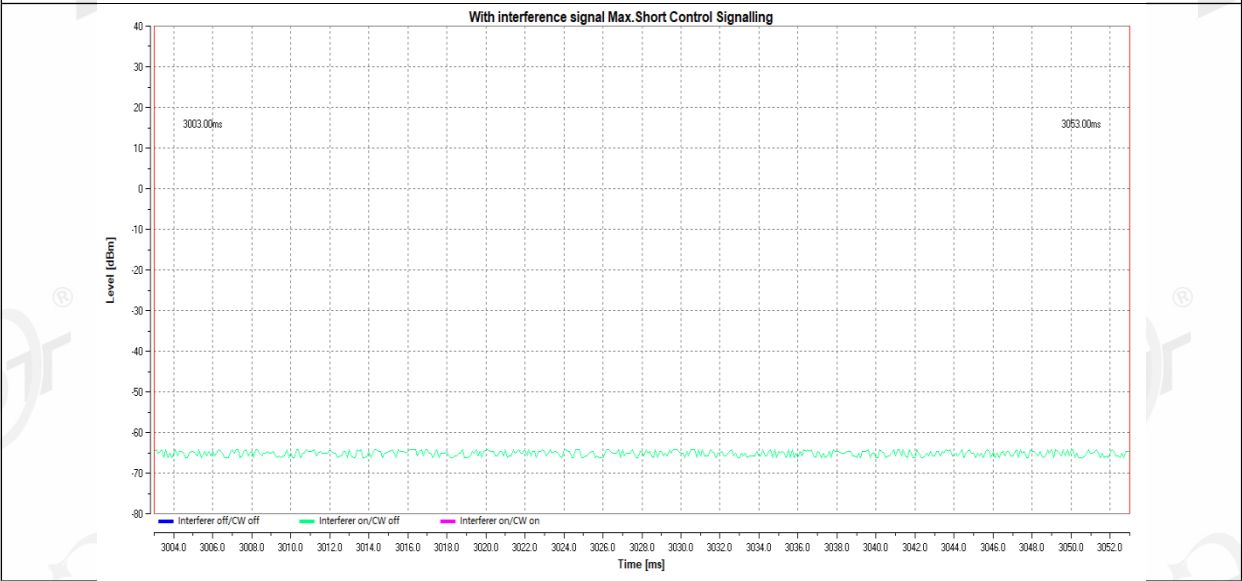
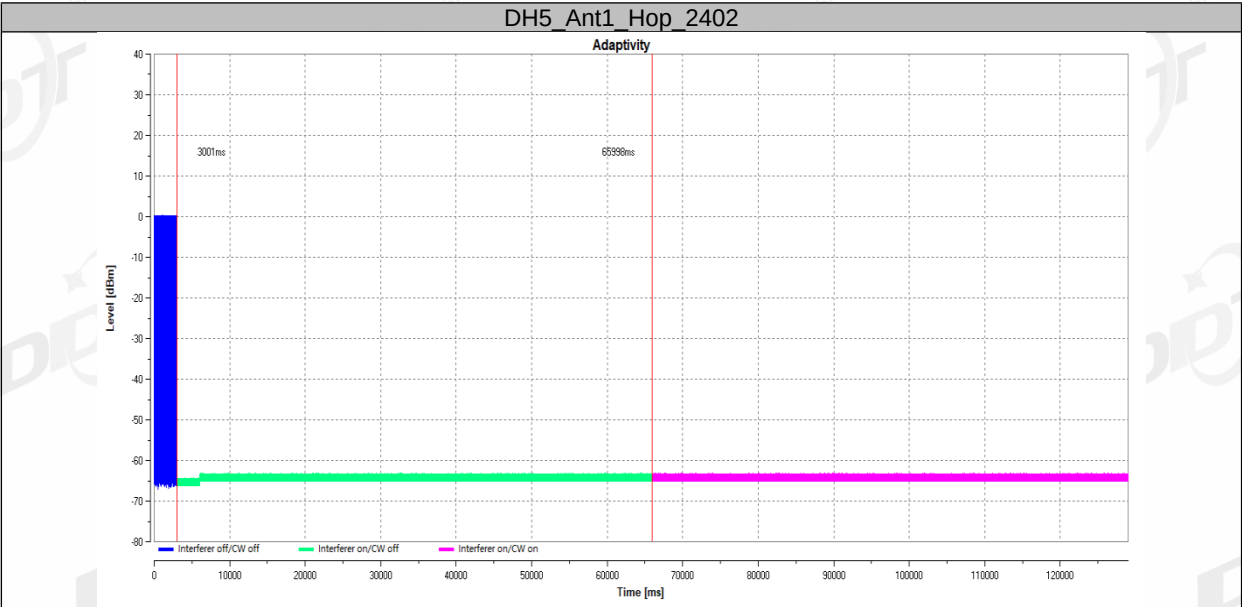
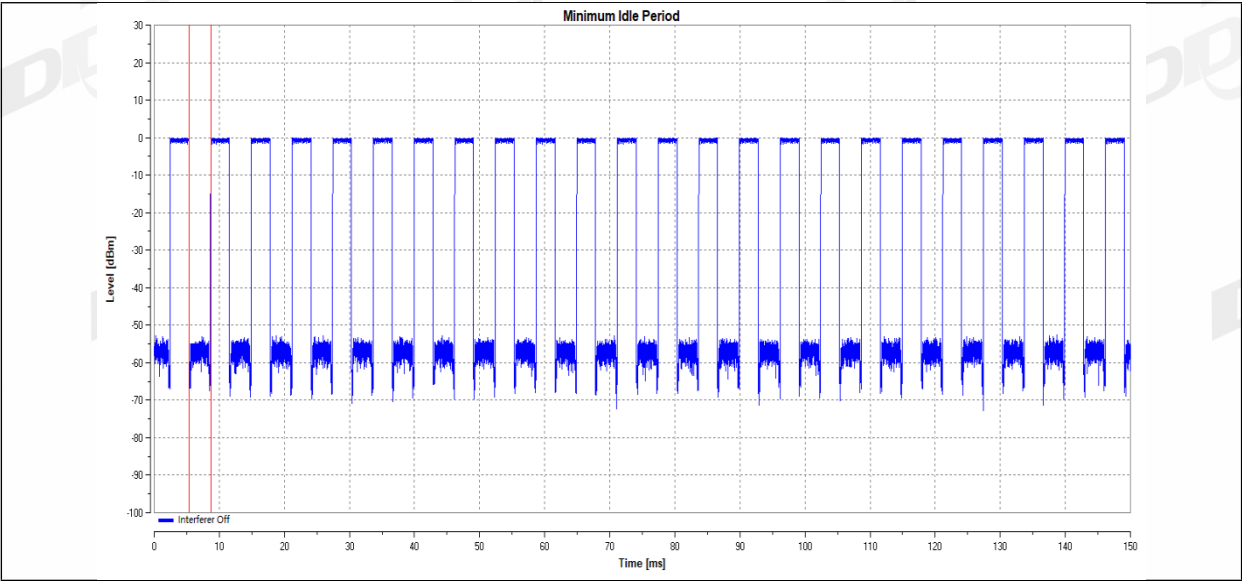
Test Mode	Antenna	Channel	Max.COT [ms]	Limit [ms]	Min.Idel Time [ms]	Limit [ms]	Verdict
DH5	Ant1	Hop_2402	2.895	40	3.355	0.145	PASS
		Hop_2480	2.890	40	3.360	0.145	PASS

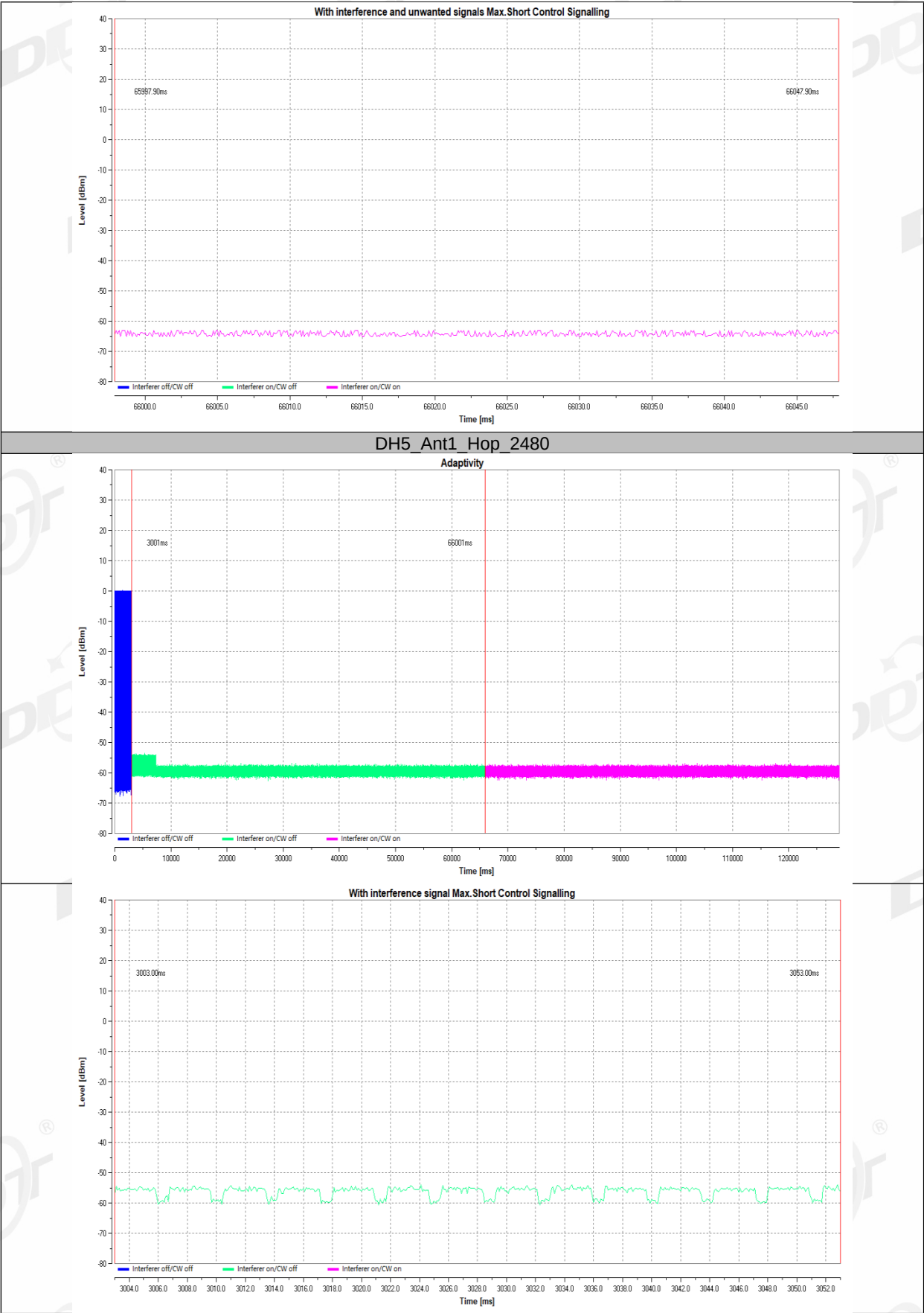
Test Mode	Antenna	Channel	Add Signal Type	Add Signal Time [ms]	Add Signal Level [dbm]	Max. Short Time [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	AWGN	3001	-57.36	0.00	10	PASS
			CW	65998	-30.28	0.00	10	PASS
		Hop_2480	AWGN	3001	-57.36	0.00	10	PASS
			CW	66001	-30.28	0.00	10	PASS

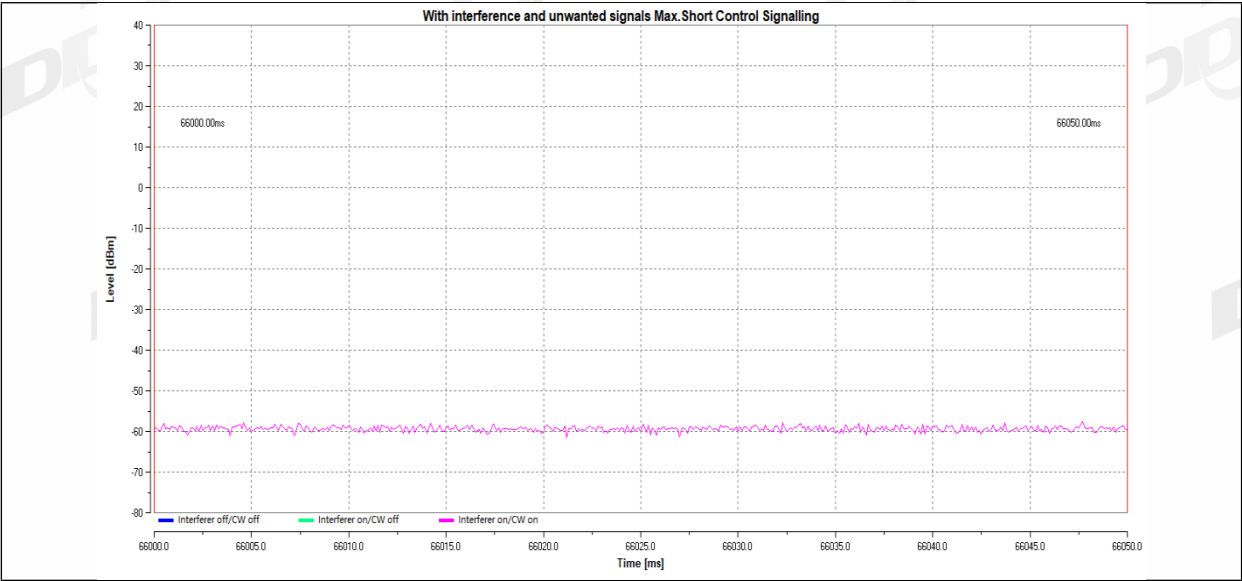
Note: All modes have been tested, only recorded the worst case in this report.

10.5. Test graphs







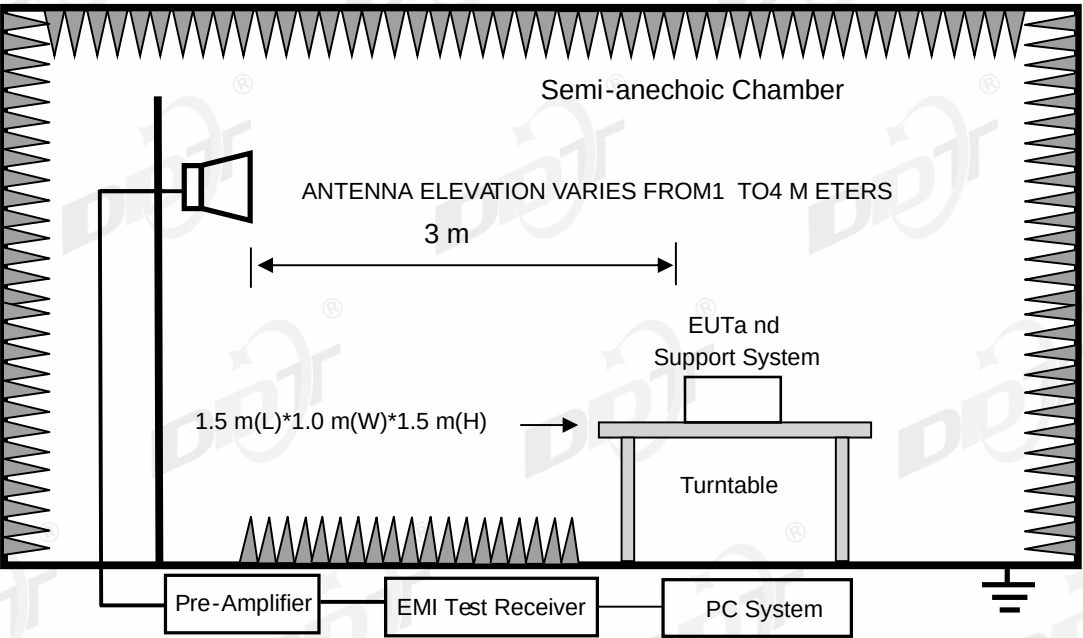
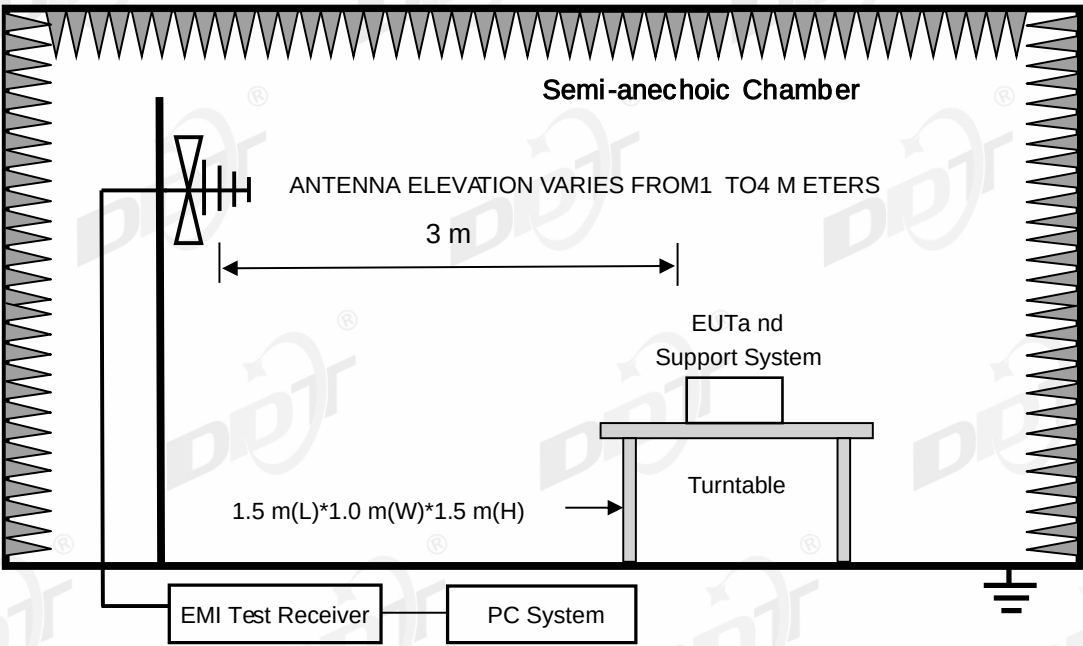


11. Transmitter unwanted emissions in the spurious domain

11.1. Test equipment

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

11.2. Block diagram of test setup



11.3. 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

11.4. Assistant equipment used for test

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

11.5. 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, $\pi/4$ -DQPSK, 8DPSK, the worst case was recorded in this report.

11.6. Test result

PASS. (See below detailed test result)

11.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-05

Tested By:

Cao Jie

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

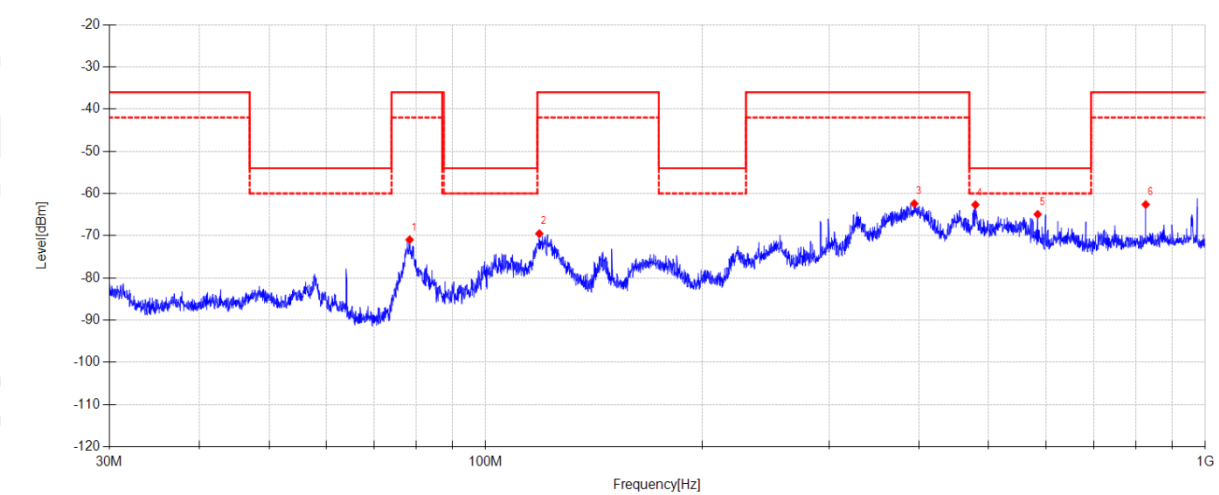
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\14

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	78.398	47.58	-118.54	-70.96	-36.00	34.96	PK	Horizontal	ERP
2	118.735	47.86	-117.37	-69.51	-36.00	33.51	PK	Horizontal	ERP
3	394.098	47.12	-109.51	-62.39	-36.00	26.39	PK	Horizontal	ERP
4	479.252	45.30	-107.96	-62.66	-54.00	8.66	PK	Horizontal	ERP
5	584.852	40.59	-105.52	-64.93	-54.00	10.93	PK	Horizontal	ERP
6	826.365	39.62	-102.23	-62.61	-36.00	26.61	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:

2025-12-05

Tested By:

Cao Jie

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

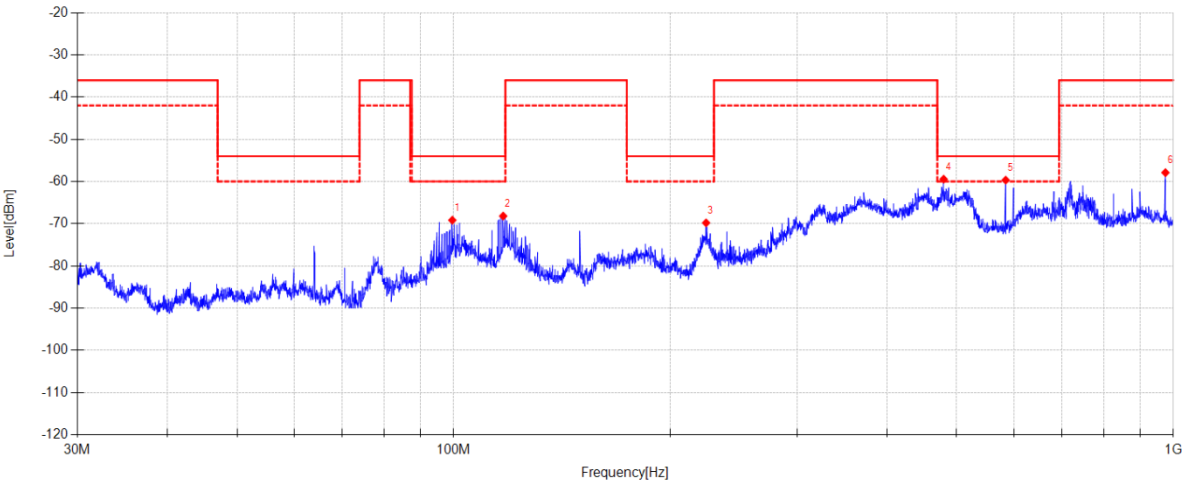
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\15

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	99.574	42.14	-111.30	-69.16	-54.00	15.16	PK	Vertical	ERP
2	117.164	44.25	-112.43	-68.18	-54.00	14.18	PK	Vertical	ERP
3	224.272	44.18	-113.97	-69.79	-54.00	15.79	PK	Vertical	ERP
4	479.588	46.28	-105.72	-59.44	-54.00	5.44	PK	Vertical	ERP
5	584.852	43.75	-103.41	-59.66	-54.00	5.66	PK	Vertical	ERP
6	975.074	39.67	-97.57	-57.90	-36.00	21.90	PK	Vertical	ERP

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	479.588	44.68	-105.72	-61.04	-54.00	7.04	RMS	Vertical	ERP
2	584.852	42.12	-103.41	-61.29	-54.00	7.29	RMS	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:

2025-12-05

Tested By:

Cao Jie

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

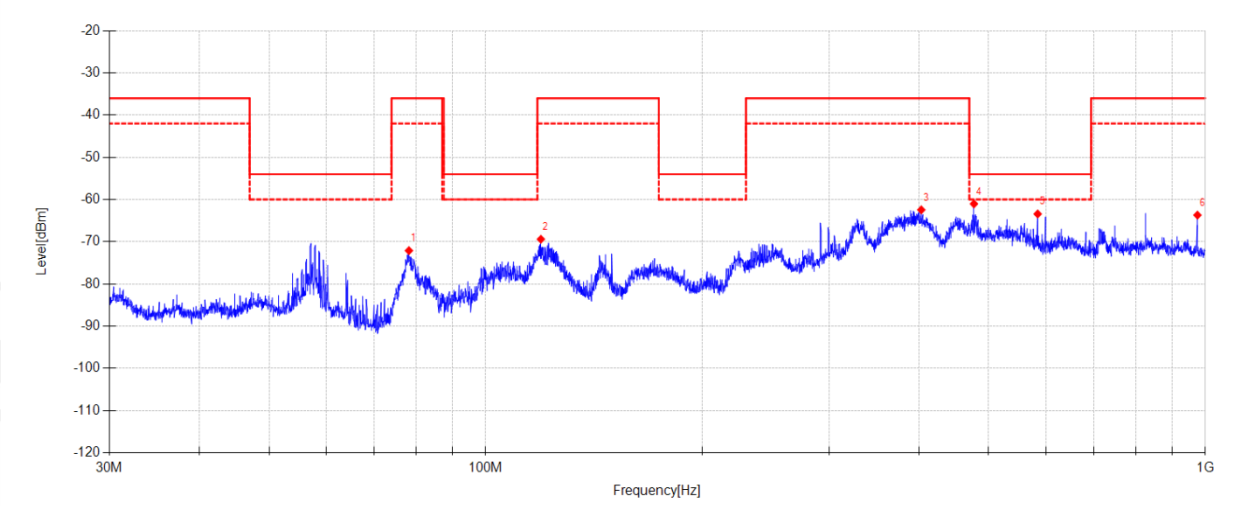
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\16

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	78.234	46.43	-118.54	-72.11	-36.00	36.11	PK	Horizontal	ERP
2	119.319	48.00	-117.41	-69.41	-36.00	33.41	PK	Horizontal	ERP
3	403.041	46.93	-109.38	-62.45	-36.00	26.45	PK	Horizontal	ERP
4	476.905	47.01	-108.04	-61.03	-54.00	7.03	PK	Horizontal	ERP
5	584.852	42.10	-105.52	-63.42	-54.00	9.42	PK	Horizontal	ERP
6	975.074	35.55	-99.25	-63.70	-36.00	27.70	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:

2025-12-05

Tested By:

Cao Jie

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

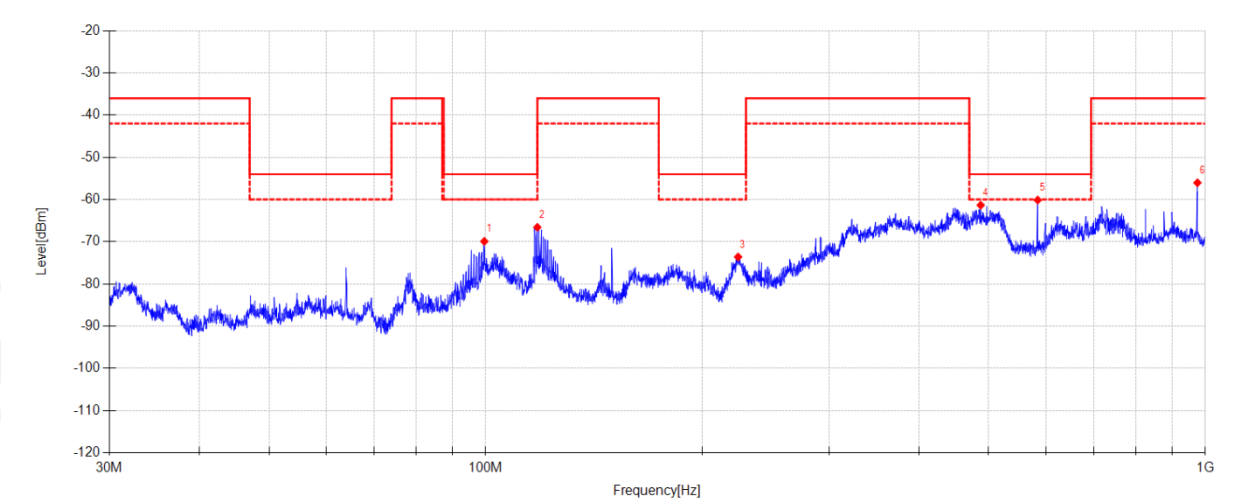
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\17

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	99.574	41.38	-111.30	-69.92	-54.00	15.92	PK	Vertical	ERP
2	117.988	45.91	-112.49	-66.58	-54.00	12.58	PK	Vertical	ERP
3	224.272	40.36	-113.97	-73.61	-54.00	19.61	PK	Vertical	ERP
4	487.385	44.06	-105.41	-61.35	-54.00	7.35	PK	Vertical	ERP
5	584.852	43.28	-103.41	-60.13	-54.00	6.13	PK	Vertical	ERP
6	975.074	41.54	-97.57	-56.03	-36.00	20.03	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:2025-12-05

Tested By:Li Xiongbín

Test Mode:TX DH5 2402MHz Mode

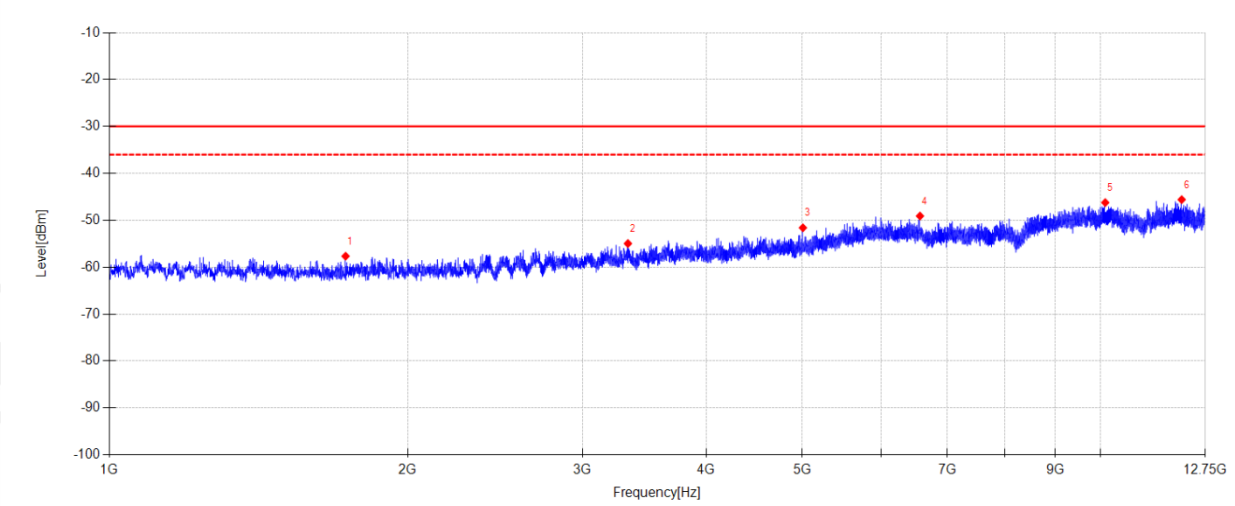
Power Supply:AC 230V/50Hz

Condition:Temp:22.9°C;Humi:45.9%

Test Site:DDT 3# Chamber

File Path:d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\1

Memo:Sample Number:S25090923-005;Power Setting:7



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1730.948	46.97	-104.63	-57.66	-30.00	27.66	PK	Horizontal	EIRP
2	3334.823	47.19	-102.15	-54.96	-30.00	24.96	PK	Horizontal	EIRP
3	5007.240	46.71	-98.31	-51.60	-30.00	21.60	PK	Horizontal	EIRP
4	6571.948	45.35	-94.44	-49.09	-30.00	19.09	PK	Horizontal	EIRP
5	10105.271	42.86	-89.09	-46.23	-30.00	16.23	PK	Horizontal	EIRP
6	12068.010	42.84	-88.44	-45.60	-30.00	15.60	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:

2025-12-05

Tested By:

Li Xiongbin

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

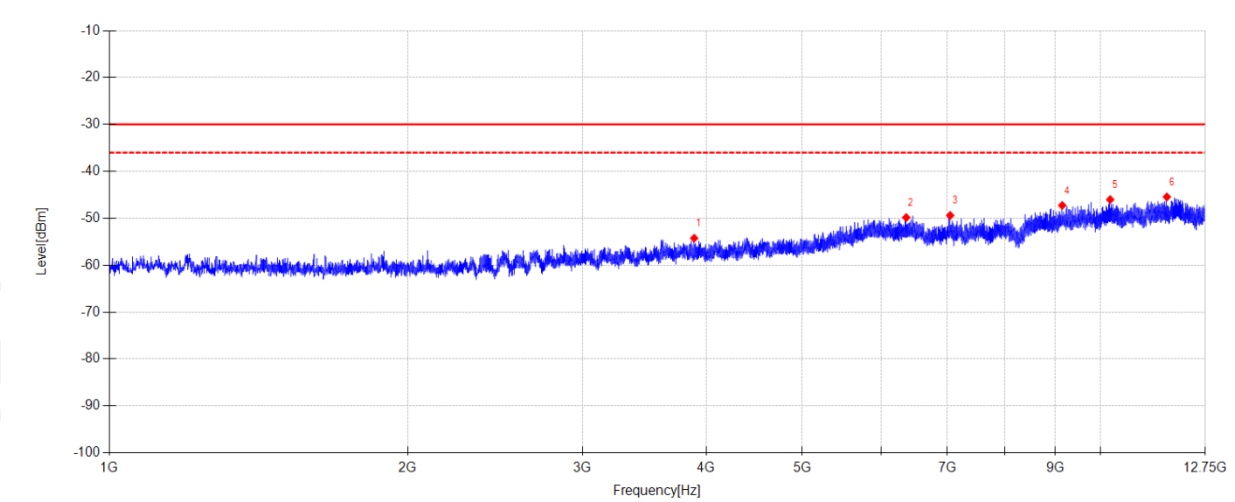
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\2

Memo:

Sample Number:S25090923-005;Power Setting:7



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	3889.521	47.04	-101.29	-54.25	-30.00	24.25	PK	Vertical	EIRP
2	6365.344	44.52	-94.36	-49.84	-30.00	19.84	PK	Vertical	EIRP
3	7049.292	45.35	-94.75	-49.40	-30.00	19.40	PK	Vertical	EIRP
4	9144.219	42.68	-89.94	-47.26	-30.00	17.26	PK	Vertical	EIRP
5	10221.792	43.22	-89.23	-46.01	-30.00	16.01	PK	Vertical	EIRP
6	11660.188	42.50	-87.95	-45.45	-30.00	15.45	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

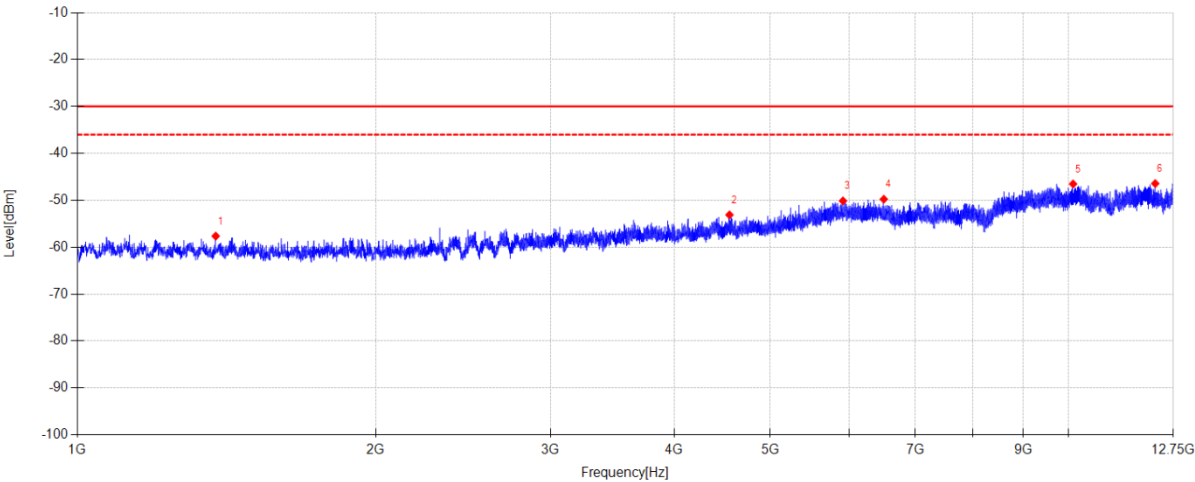
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\3

Memo:

Sample Number:S25090923-005;Power Setting:7



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1378.938	46.90	-104.54	-57.64	-30.00	27.64	PK	Horizontal	EIRP
2	4548.010	46.46	-99.58	-53.12	-30.00	23.12	PK	Horizontal	EIRP
3	5918.844	44.33	-94.46	-50.13	-30.00	20.13	PK	Horizontal	EIRP
4	6508.302	44.63	-94.40	-49.77	-30.00	19.77	PK	Horizontal	EIRP
5	10101.844	42.57	-89.09	-46.52	-30.00	16.52	PK	Horizontal	EIRP
6	12224.188	41.99	-88.43	-46.44	-30.00	16.44	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:

2025-12-05

Tested By:

Li Xiongbin

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

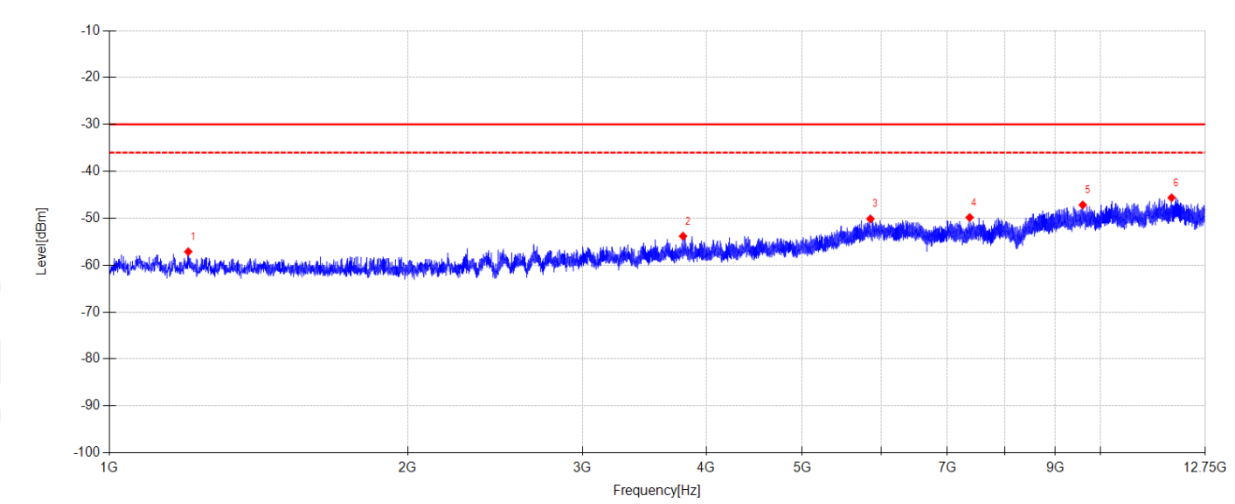
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\4

Memo:

Sample Number:S25090923-005;Power Setting:7



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1201.219	47.02	-104.14	-57.12	-30.00	27.12	PK	Vertical	EIRP
2	3790.135	47.63	-101.44	-53.81	-30.00	23.81	PK	Vertical	EIRP
3	5857.646	44.63	-94.76	-50.13	-30.00	20.13	PK	Vertical	EIRP
4	7375.354	44.33	-94.16	-49.83	-30.00	19.83	PK	Vertical	EIRP
5	9591.208	42.59	-89.74	-47.15	-30.00	17.15	PK	Vertical	EIRP
6	11789.438	42.31	-87.93	-45.62	-30.00	15.62	PK	Vertical	EIRP

Note:

1. Level = Reading + Factor.

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

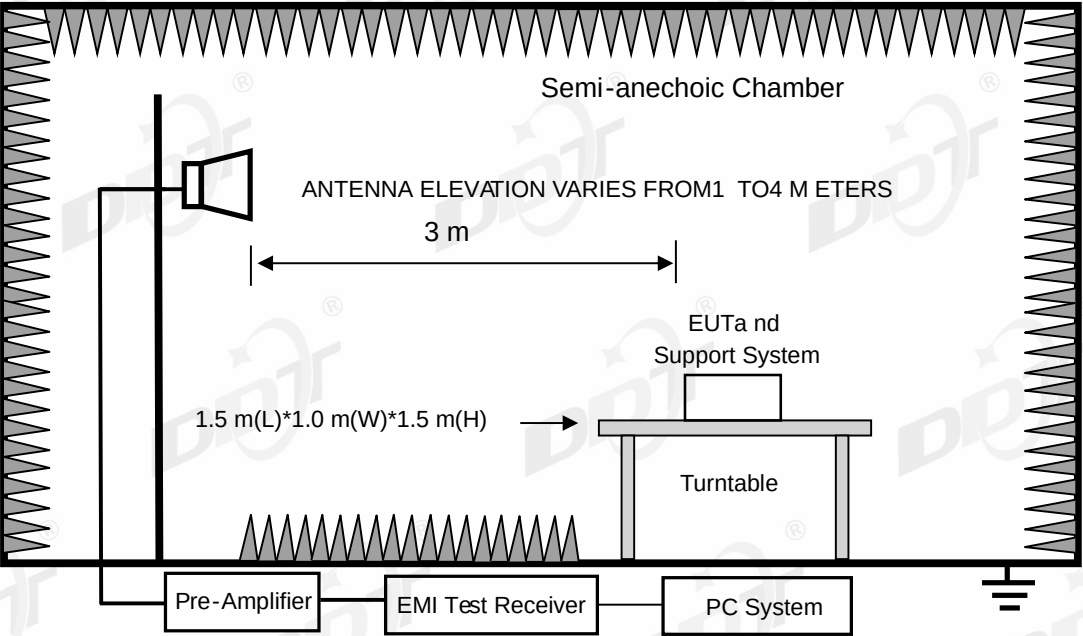
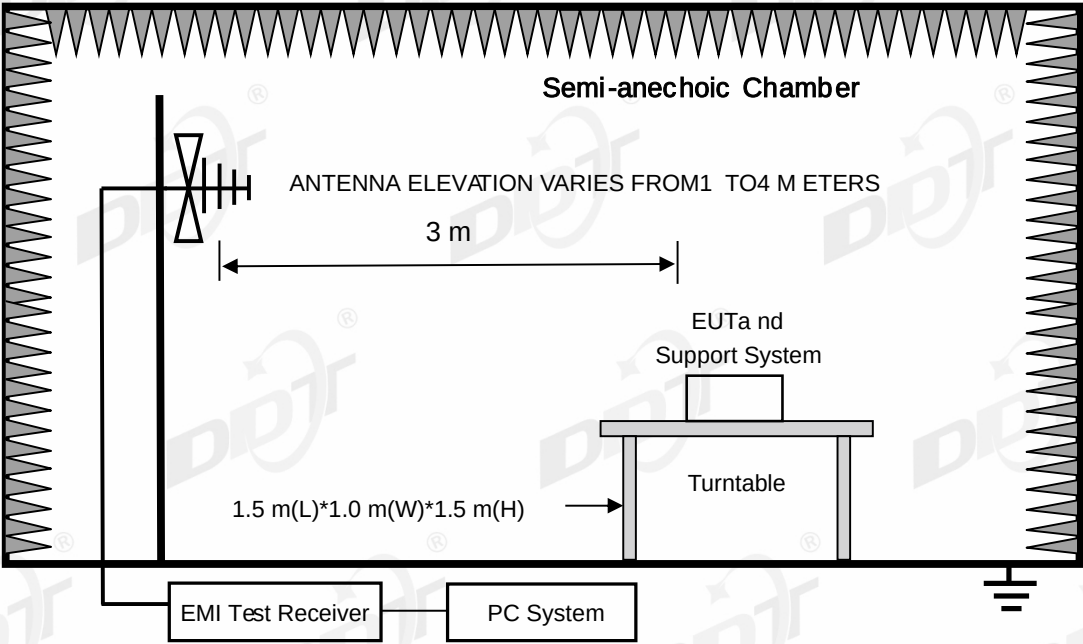
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Receiver spurious emissions

12.1. Test equipment

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

12.2. Block diagram of test setup



12.3. 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

12.4. Assistant equipment used for test

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

12.5. Test procedure

Refer to EN 300 328 V2.2.2 Clause 5.4.10.2

12.6. Test result

PASS. (See below detailed test result)

Note: All modes have been tested, only recorded the worst case in this report.

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-04

Tested By:

Cao Jie

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

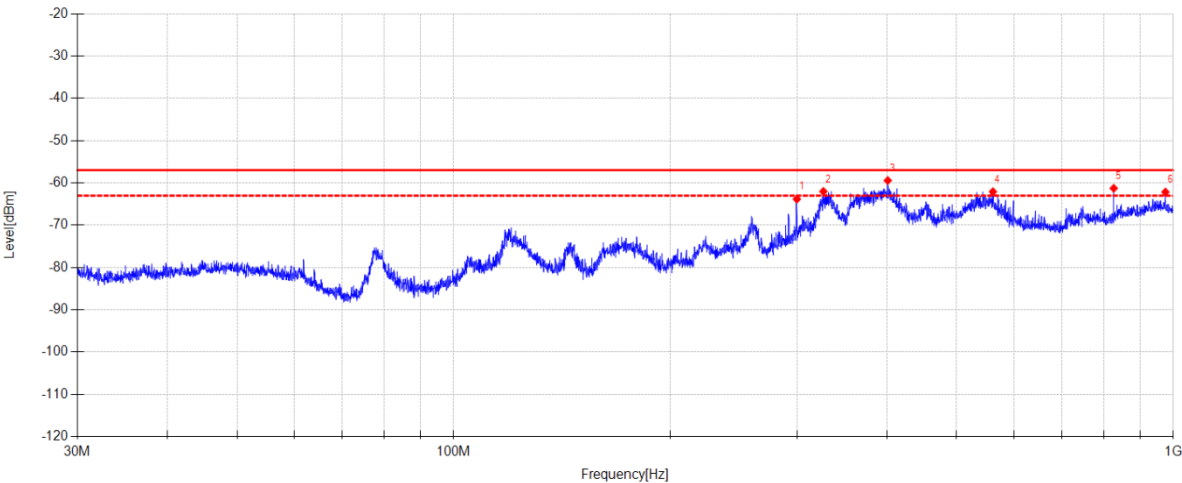
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\10

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	299.808	47.90	-111.74	-63.84	-57.00	6.84	PK	Horizontal	ERP
2	326.355	48.92	-110.95	-62.03	-57.00	5.03	PK	Horizontal	ERP
3	401.067	49.96	-109.40	-59.44	-57.00	2.44	PK	Horizontal	ERP
4	561.545	44.47	-106.56	-62.09	-57.00	5.09	PK	Horizontal	ERP
5	826.365	40.94	-102.23	-61.29	-57.00	4.29	PK	Horizontal	ERP
6	975.074	37.07	-99.25	-62.18	-57.00	5.18	PK	Horizontal	ERP

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	326.355	46.23	-110.95	-64.72	-57.00	7.72	RMS	Horizontal	ERP
2	401.067	47.72	-109.40	-61.68	-57.00	4.68	RMS	Horizontal	ERP
3	561.545	42.19	-106.56	-64.37	-57.00	7.37	RMS	Horizontal	ERP
4	826.365	38.51	-102.23	-63.72	-57.00	6.72	RMS	Horizontal	ERP
5	975.074	34.93	-99.25	-64.32	-57.00	7.32	RMS	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:

2025-12-04

Tested By:

Cao Jie

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

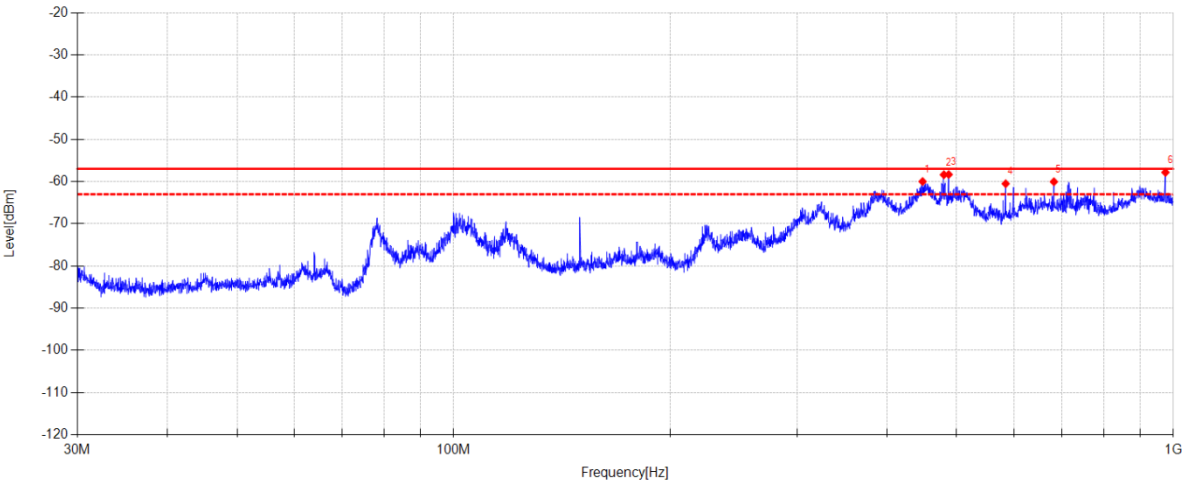
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\11

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	448.368	46.92	-106.92	-60.00	-57.00	3.00	PK	Vertical	ERP
2	479.925	47.32	-105.71	-58.39	-57.00	1.39	PK	Vertical	ERP
3	487.385	47.06	-105.41	-58.35	-57.00	1.35	PK	Vertical	ERP
4	584.852	42.88	-103.41	-60.53	-57.00	3.53	PK	Vertical	ERP
5	682.401	42.25	-102.31	-60.06	-57.00	3.06	PK	Vertical	ERP
6	975.074	39.73	-97.57	-57.84	-57.00	0.84	PK	Vertical	ERP

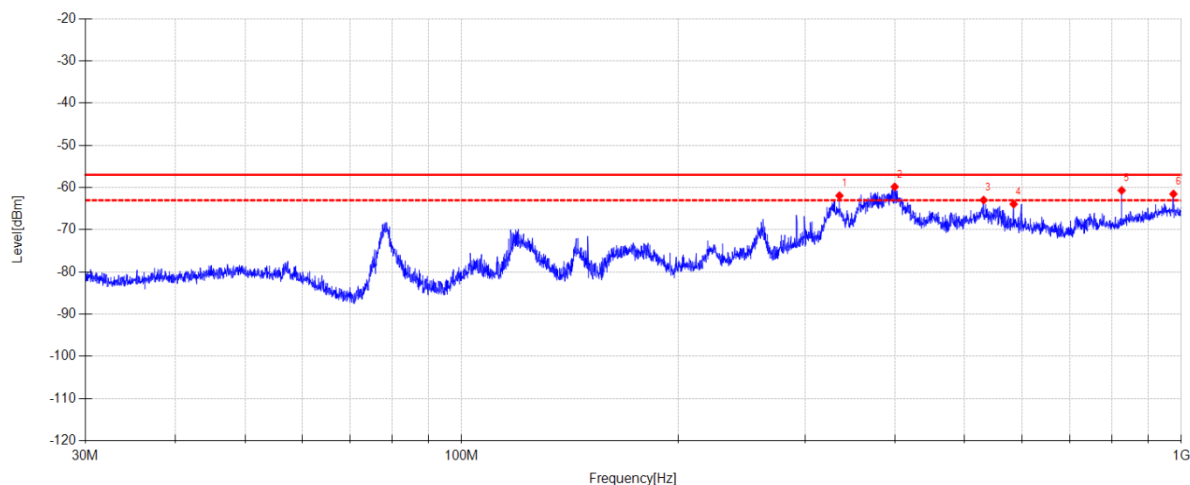
Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	448.368	44.43	-106.92	-62.49	-57.00	5.49	RMS	Vertical	ERP
2	477.473	42.57	-105.71	-63.14	-57.00	6.14	RMS	Vertical	ERP
3	487.489	41.62	-105.41	-63.79	-57.00	6.79	RMS	Vertical	ERP
4	584.852	41.38	-103.41	-62.03	-57.00	5.03	RMS	Vertical	ERP
5	682.401	39.37	-102.31	-62.94	-57.00	5.94	RMS	Vertical	ERP
6	975.010	37.73	-97.57	-59.84	-57.00	2.84	RMS	Vertical	ERP

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-12-04 **Tested By:** Cao Jie
Test Mode: RX DH5 2480MHz Mode **Power Supply:** AC 230V/50Hz
Condition: Temp:22.9°C;Humi:45.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\12
Memo: Sample Number:S25090923-005

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	334.932	48.74	-110.68	-61.94	-57.00	4.94	PK	Horizontal	ERP
2	399.664	49.57	-109.41	-59.84	-57.00	2.84	PK	Horizontal	ERP
3	531.285	44.18	-107.15	-62.97	-57.00	5.97	PK	Horizontal	ERP
4	584.852	41.59	-105.52	-63.93	-57.00	6.93	PK	Horizontal	ERP
5	826.365	41.54	-102.23	-60.69	-57.00	3.69	PK	Horizontal	ERP
6	975.074	37.72	-99.25	-61.53	-57.00	4.53	PK	Horizontal	ERP

Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	334.932	47.67	-110.68	-63.01	-57.00	6.01	RMS	Horizontal	ERP
2	399.664	47.81	-109.41	-61.60	-57.00	4.60	RMS	Horizontal	ERP
3	531.285	42.25	-107.15	-64.90	-57.00	7.90	RMS	Horizontal	ERP
4	826.365	39.62	-102.23	-62.61	-57.00	5.61	RMS	Horizontal	ERP
5	975.074	37.86	-99.25	-61.39	-57.00	4.39	RMS	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

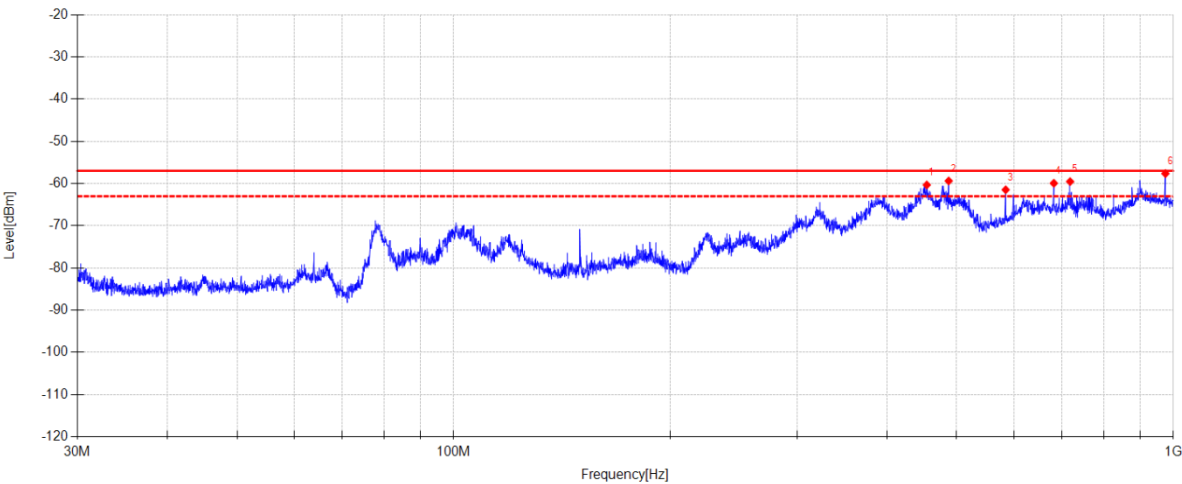
Test Date: 2025-12-04 Tested By: Cao Jie

Test Mode: RX DH5 2480MHz Mode Power Supply: AC 230V/50Hz

Condition: Temp:22.9°C;Humi:45.9% Test Site: DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25090923-2E\CE BELOW 1G BT\13

Memo: Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	454.382	46.37	-106.71	-60.34	-57.00	3.34	PK	Vertical	ERP
2	487.385	46.02	-105.41	-59.39	-57.00	2.39	PK	Vertical	ERP
3	584.852	41.92	-103.41	-61.49	-57.00	4.49	PK	Vertical	ERP
4	682.401	42.37	-102.31	-59.94	-57.00	2.94	PK	Vertical	ERP
5	718.743	42.22	-101.76	-59.54	-57.00	2.54	PK	Vertical	ERP
6	975.074	39.92	-97.57	-57.65	-57.00	0.65	PK	Vertical	ERP

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	454.382	44.53	-106.71	-62.18	-57.00	5.18	RMS	Vertical	ERP
2	487.385	44.10	-105.41	-61.31	-57.00	4.31	RMS	Vertical	ERP
3	584.852	40.38	-103.41	-63.03	-57.00	6.03	RMS	Vertical	ERP
4	682.401	41.27	-102.31	-61.04	-57.00	4.04	RMS	Vertical	ERP
5	718.743	40.63	-101.76	-61.13	-57.00	4.13	RMS	Vertical	ERP
6	975.074	38.28	-97.57	-59.29	-57.00	2.29	RMS	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

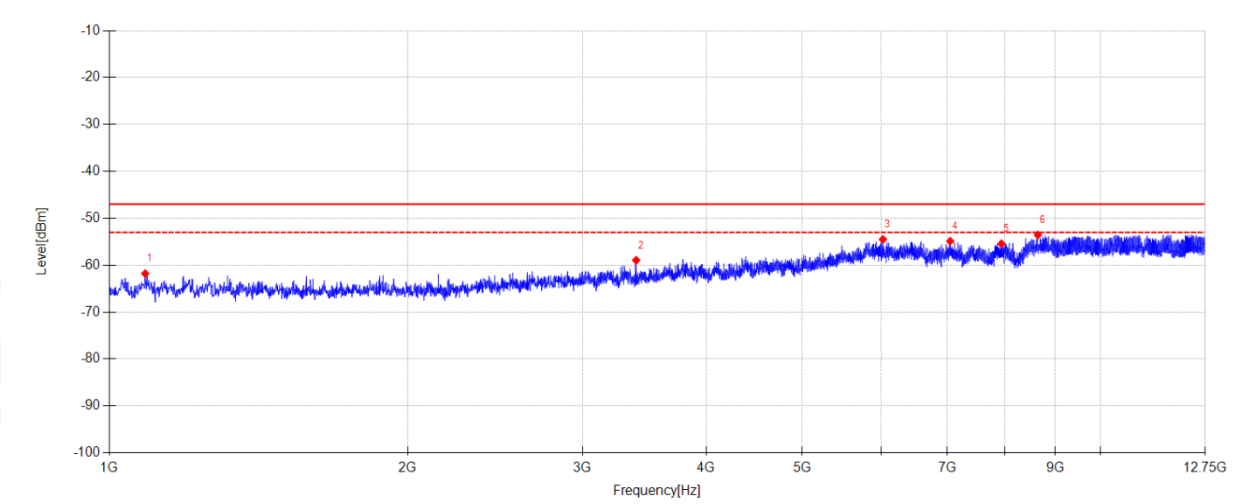
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\5

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1086.950	42.67	-104.47	-61.80	-47.00	14.80	PK	Horizontal	EIRP
2	3399.350	43.10	-102.05	-58.95	-47.00	11.95	PK	Horizontal	EIRP
3	6029.000	39.62	-94.13	-54.51	-47.00	7.51	PK	Horizontal	EIRP
4	7050.075	39.75	-94.62	-54.87	-47.00	7.87	PK	Horizontal	EIRP
5	7939.550	38.09	-93.52	-55.43	-47.00	8.43	PK	Horizontal	EIRP
6	8641.025	37.47	-91.02	-53.55	-47.00	6.55	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

RX DH5 2480MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

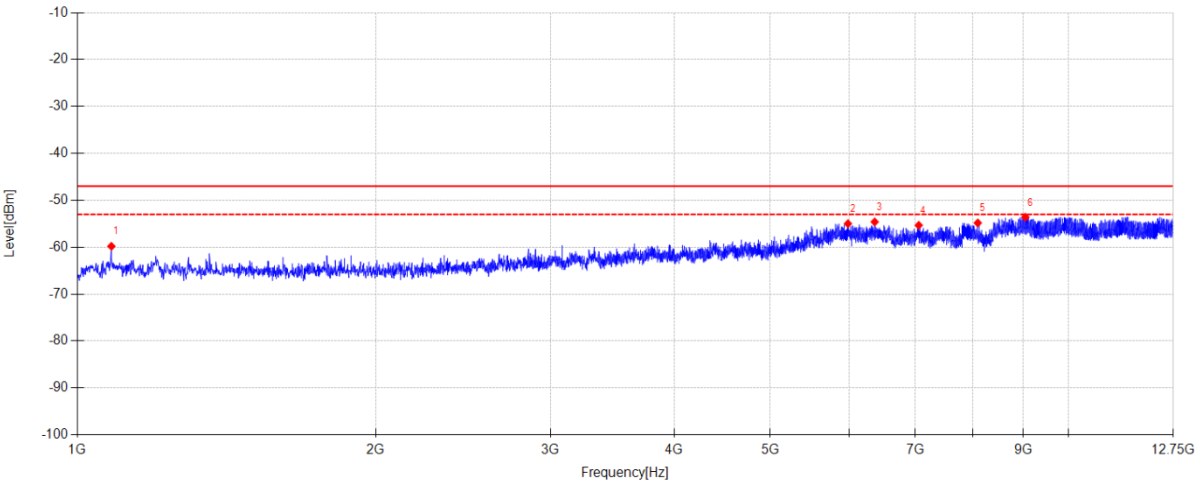
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\6

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1082.250	44.29	-104.10	-59.81	-47.00	12.81	PK	Vertical	EIRP
2	5987.875	39.14	-94.13	-54.99	-47.00	7.99	PK	Vertical	EIRP
3	6372.100	39.75	-94.36	-54.61	-47.00	7.61	PK	Vertical	EIRP
4	7058.300	39.40	-94.73	-55.33	-47.00	8.33	PK	Vertical	EIRP
5	8095.825	37.91	-92.74	-54.83	-47.00	7.83	PK	Vertical	EIRP
6	9040.525	36.37	-89.98	-53.61	-47.00	6.61	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

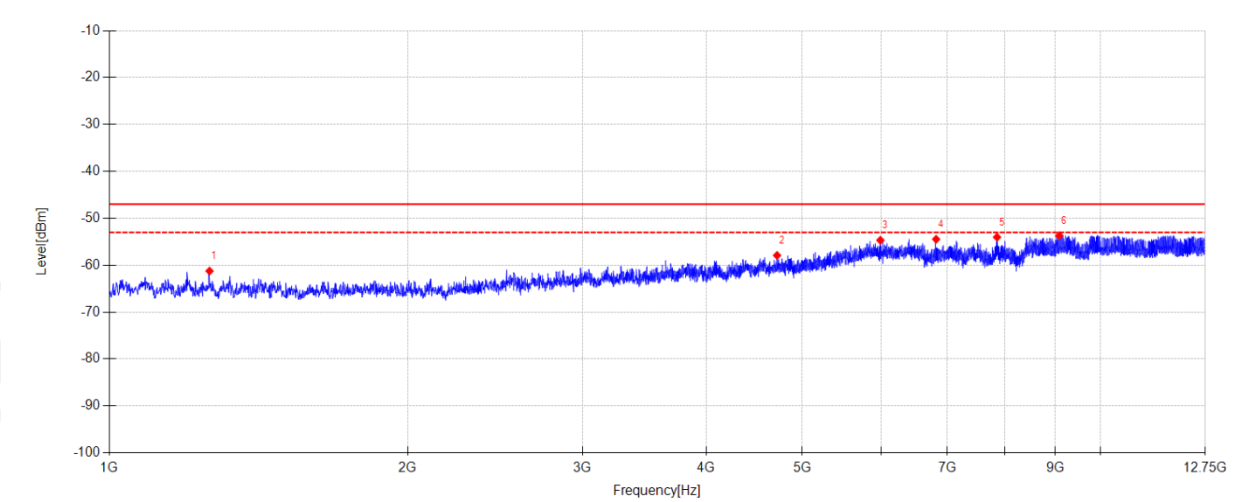
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090923-2E\CE ABOVE 1G BT\7

Memo:

Sample Number:S25090923-005



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1262.025	43.25	-104.50	-61.25	-47.00	14.25	PK	Horizontal	EIRP
2	4715.350	41.20	-99.12	-57.92	-47.00	10.92	PK	Horizontal	EIRP
3	5993.750	39.45	-94.13	-54.68	-47.00	7.68	PK	Horizontal	EIRP
4	6823.300	40.12	-94.59	-54.47	-47.00	7.47	PK	Horizontal	EIRP
5	7860.825	39.58	-93.61	-54.03	-47.00	7.03	PK	Horizontal	EIRP
6	9081.650	35.92	-89.61	-53.69	-47.00	6.69	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

RX DH5 2402MHz Mode

Power Supply:

AC 230V/50Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

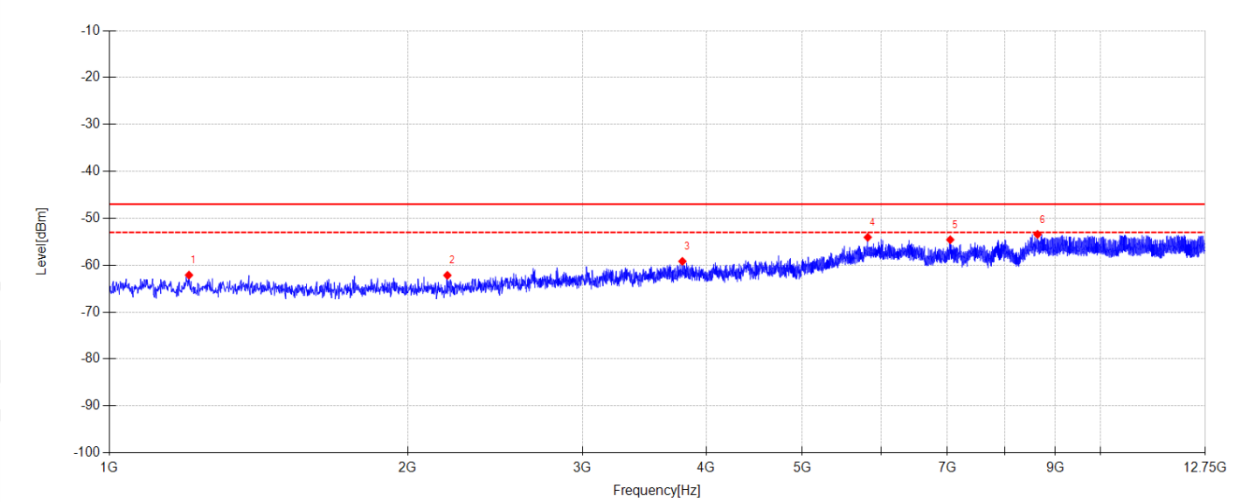
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25090923-005

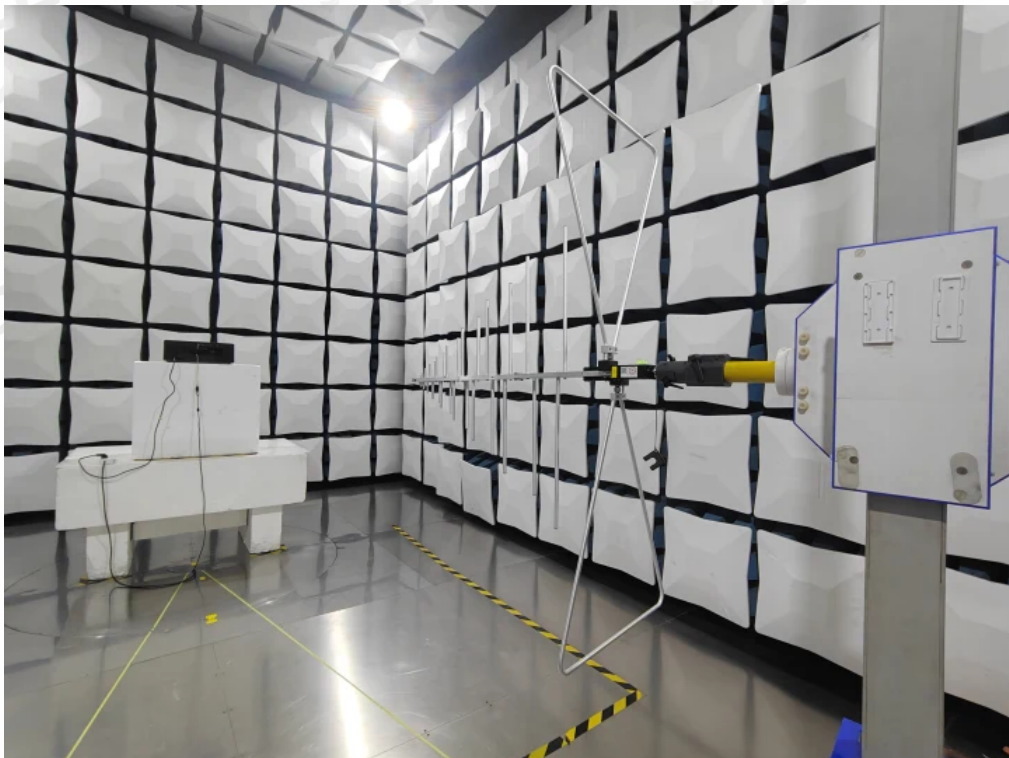


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1203.275	42.03	-104.15	-62.12	-47.00	15.12	PK	Vertical	EIRP
2	2192.625	41.92	-104.09	-62.17	-47.00	15.17	PK	Vertical	EIRP
3	3784.750	42.26	-101.44	-59.18	-47.00	12.18	PK	Vertical	EIRP
4	5821.025	40.88	-94.94	-54.06	-47.00	7.06	PK	Vertical	EIRP
5	7050.075	40.16	-94.74	-54.58	-47.00	7.58	PK	Vertical	EIRP
6	8635.150	37.66	-91.10	-53.44	-47.00	6.44	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.

13. Test Setup Photograph





14. Photos of the EUT

Please refer to DDT-Q25090923-1E appendix I

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