



FCC CERTIFICATION TEST REPORT

Applicant	:	Cooler Master Technology Inc.
Address of Applicant	:	7F., No.398, Xinhua 1st Rd., Neihu Dist., Taipei City 114065, Taiwan
Manufacturer	:	Dong Guan IONE Electronic Technology Co., Ltd.
Address of Manufacturer	:	Building 3 No.76, Yongjun 2nd, Road, HuangJiang Town, DongGuan City, GuangDong Province, China
Equipment under Test	:	Dongle
Model No.	:	CMHS-D
FCC ID	:	2AR8X-CMHS-D
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE24050708-2E06
Issue Date	:	2024/08/07
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Equipment under Test	:	Dongle
Model No.	:	CMHS-D
Manufacturer	:	Dong Guan IONE Electronic Technology Co., Ltd.
Address of Manufacturer	:	Building 3 No.76, Yongjun 2nd, Road, HuangJiang Town, DongGuan City, GuangDong Province, China

Test Standard Used:

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

We Declare:

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

Report No.:	DDT-RE24050708-2E06		
Date of Receipt:	2024/07/16	Date of Test:	2024/07/16~2024/08/07

Prepared By:*Bobo Chen***Bobo Chen/Engineer****Approved By:****Damon Hu/EMC Manager**

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

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/08/07	

1. Summary of Test Results

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

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

2. General Test Information

2.1. Description of EUT

EUT Name	: Dongle
Model Number	: CMHS-D
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V

Radio Specification	: 2.4GHz SRD
Operation Frequency	: 2402 MHz-2476 MHz
Modulation	: GFSK

Antenna information	
Antenna Type	: Chip
Ant 1 Max Antenna Gain(dBi)	: 2.4
Ant 2 Max Antenna Gain(dBi)	: 2.4

2.4G SRD Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	2402	29	2429	57	2457
6	2406	34	2434	62	2462
10	2410	39	2439	67	2467
14	2414	44	2444	72	2472
19	2419	49	2449	76	2476
24	2424	53	2453		

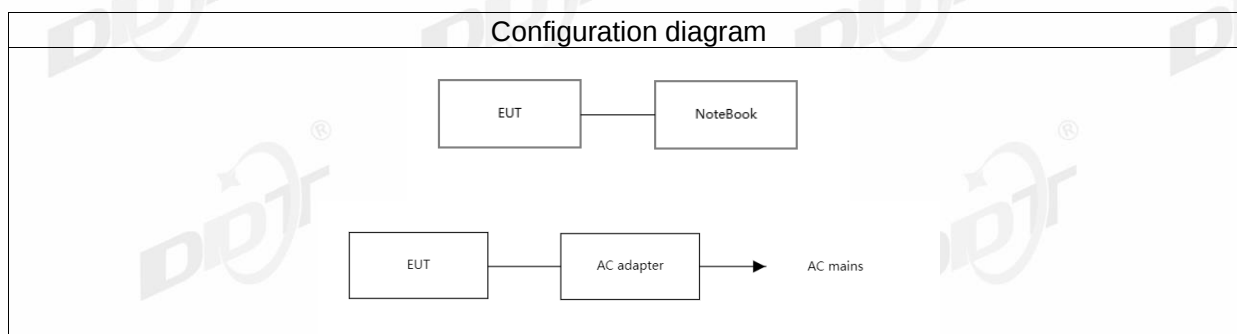
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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
Gaming Headset	Dong Guan IONE Electronic Technology Co., Ltd.	CH351	/

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: Upgrade_tool_25xx_v1.2.7.exe

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

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

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
Tx mode	13	CH2	2402
	13	CH44	2444
	13	CH76	2476

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

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

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

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

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

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

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

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

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

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

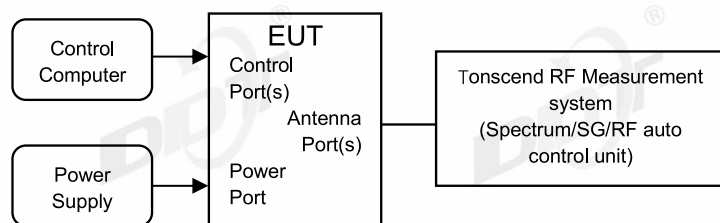
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05
RF Control Unit	Tonsend	JS0806-2	2118060485	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 6 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

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

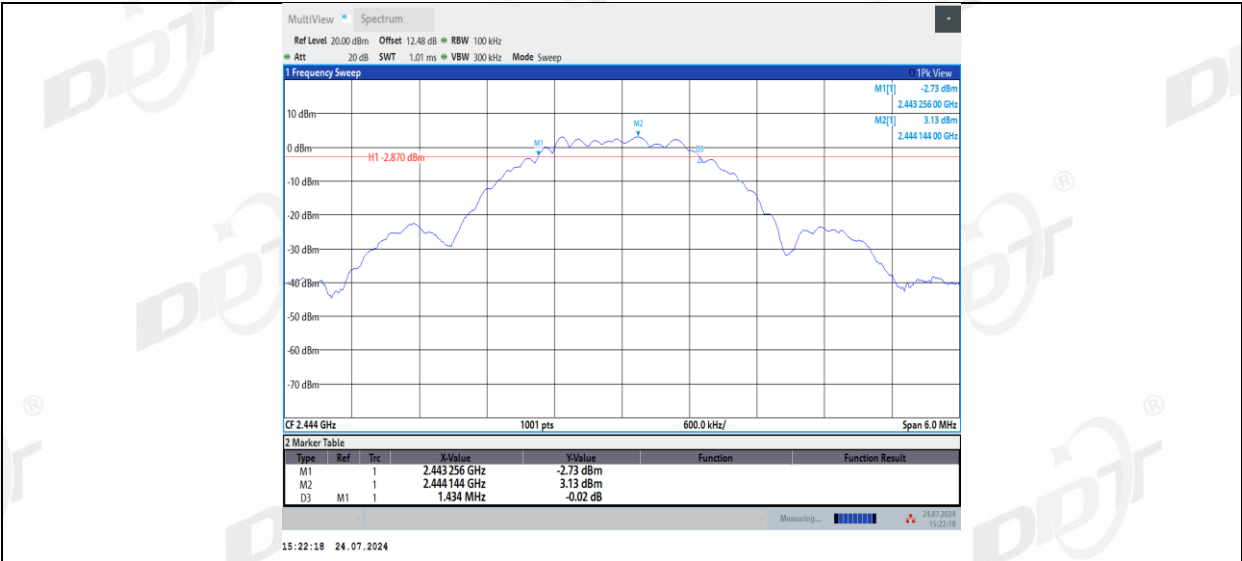
4.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.3℃,45.6%RH	Test Date:	2024.07.24
Test Power Supply:	AC230V/50Hz	Sample Number:	S24050708-009

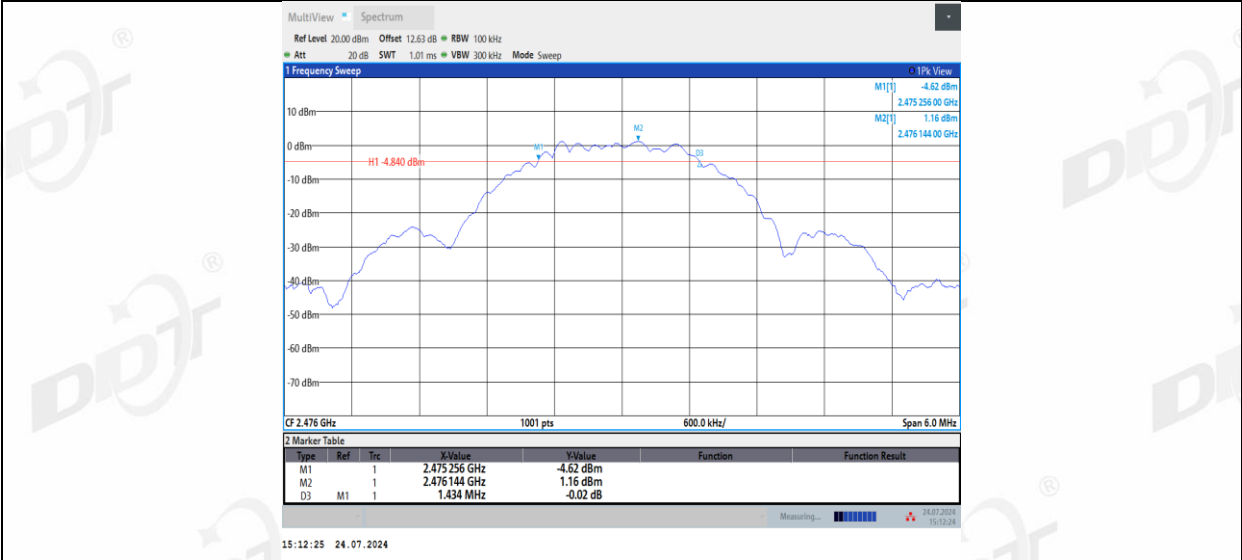
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
2.4G SRD	Ant1	2402	1.43	2401.26	2402.69	0.5	PASS
	Ant2	2402	1.43	2401.26	2402.69	0.5	PASS
	Ant1	2444	1.43	2443.26	2444.69	0.5	PASS
	Ant2	2444	1.43	2443.26	2444.69	0.5	PASS
	Ant1	2476	1.43	2475.26	2476.69	0.5	PASS
	Ant2	2476	1.43	2475.26	2476.69	0.5	PASS

4.5. Test graphs

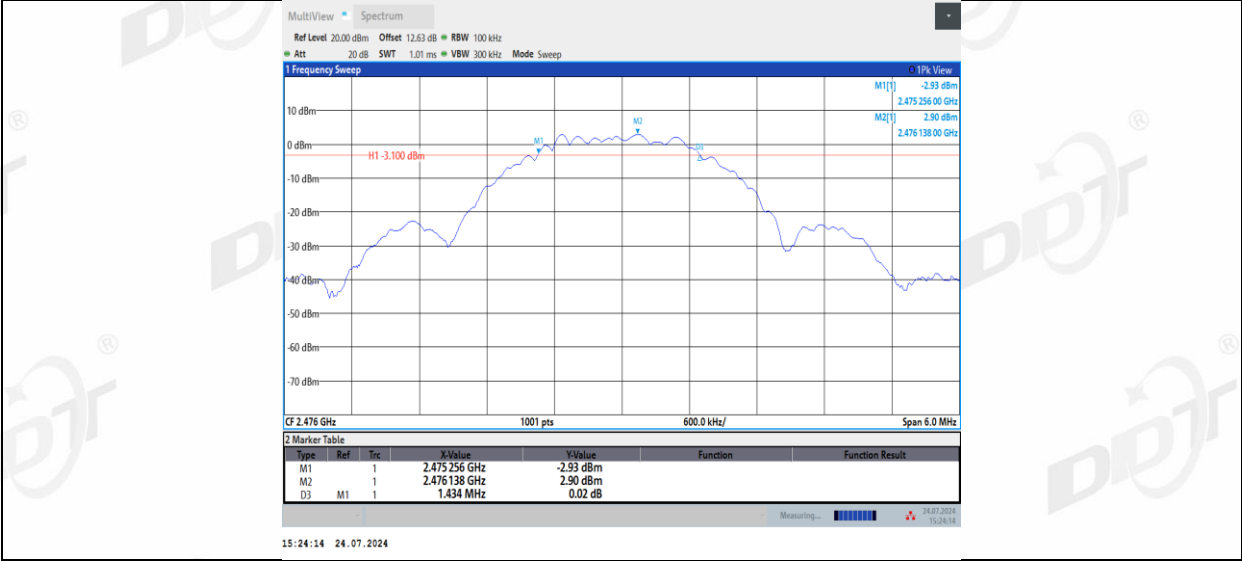




2.4G SRD_Ant1_2476

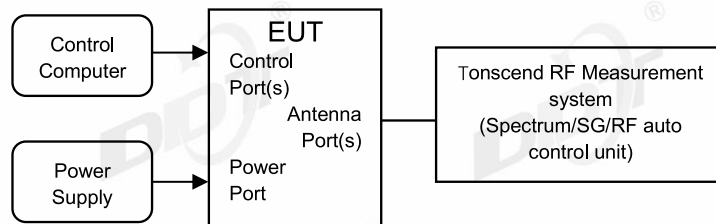


2.4G SRD_Ant2_2476



6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. Limits

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

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.1.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

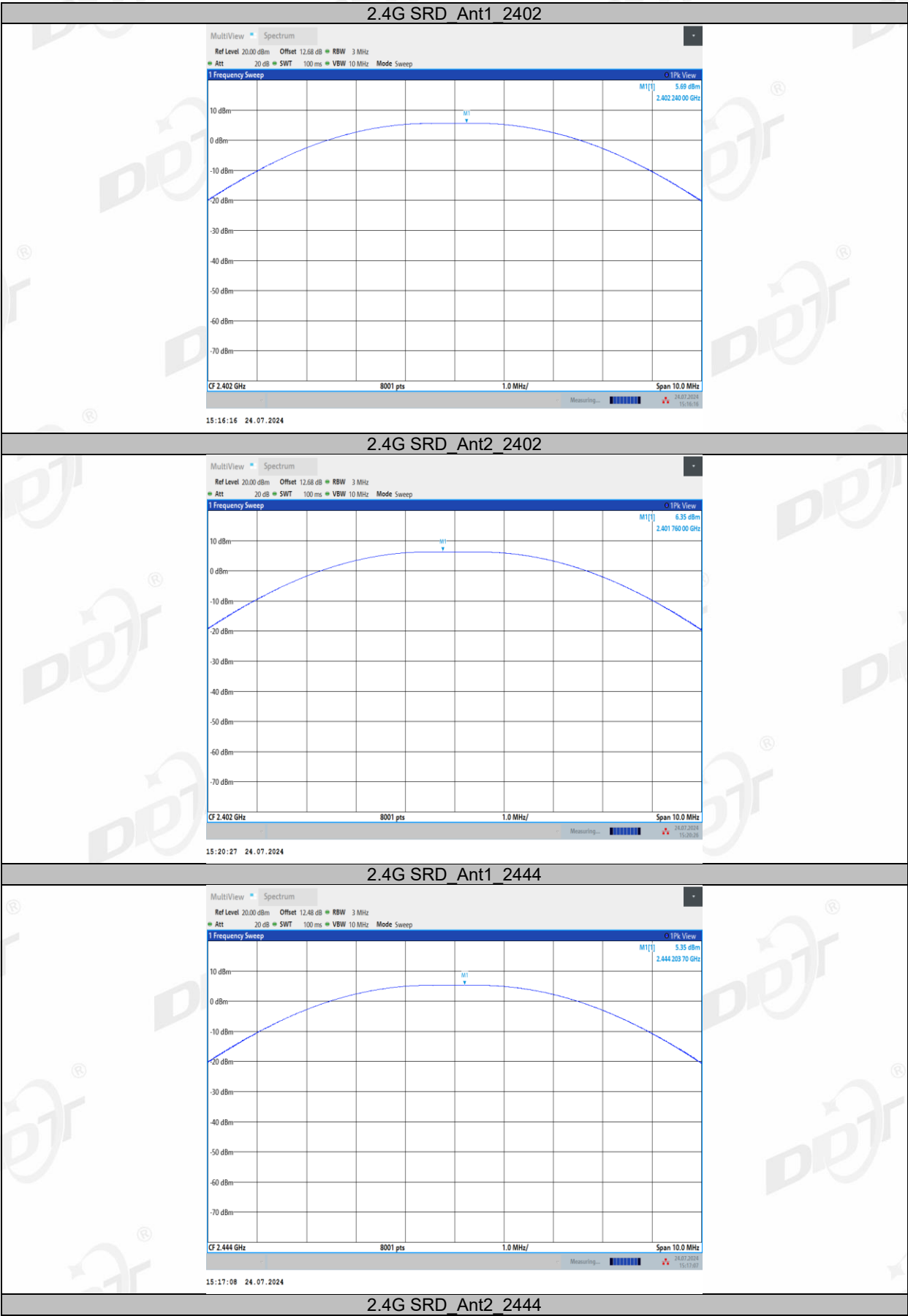
RBW:	≥DTS bandwidth
VBW:	≥3 x RBW
Span	≥3 x RBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, use peak marker function to determine the peak amplitude level.

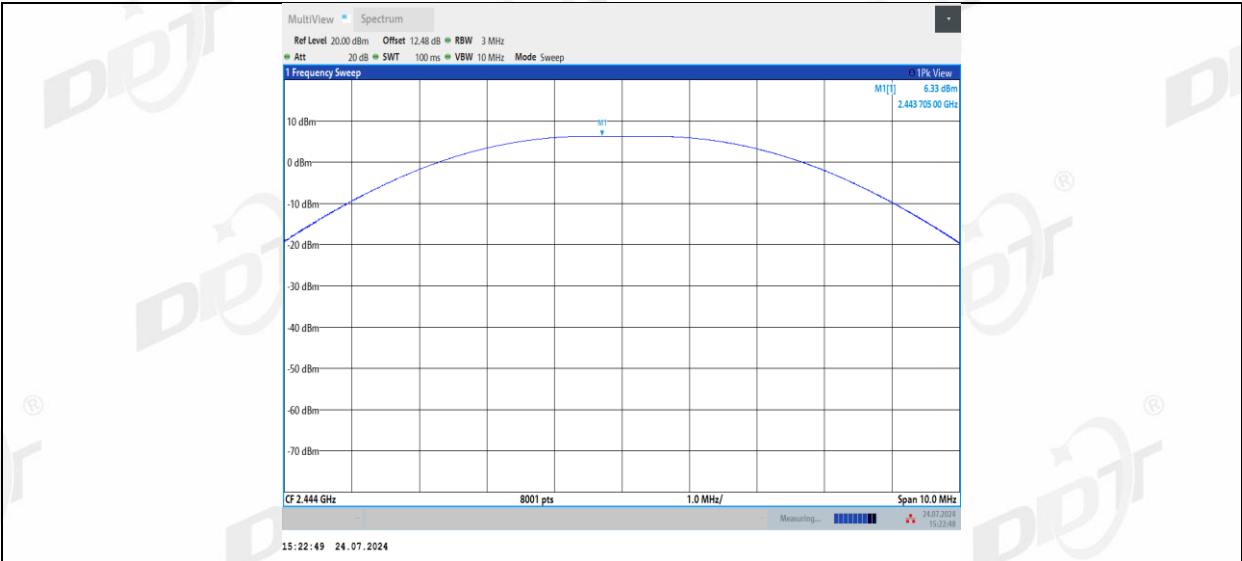
6.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.3℃,45.6%RH	Test Date:	2024.07.24
Test Power Supply:	AC230V/50Hz	Sample Number:	S24050708-009

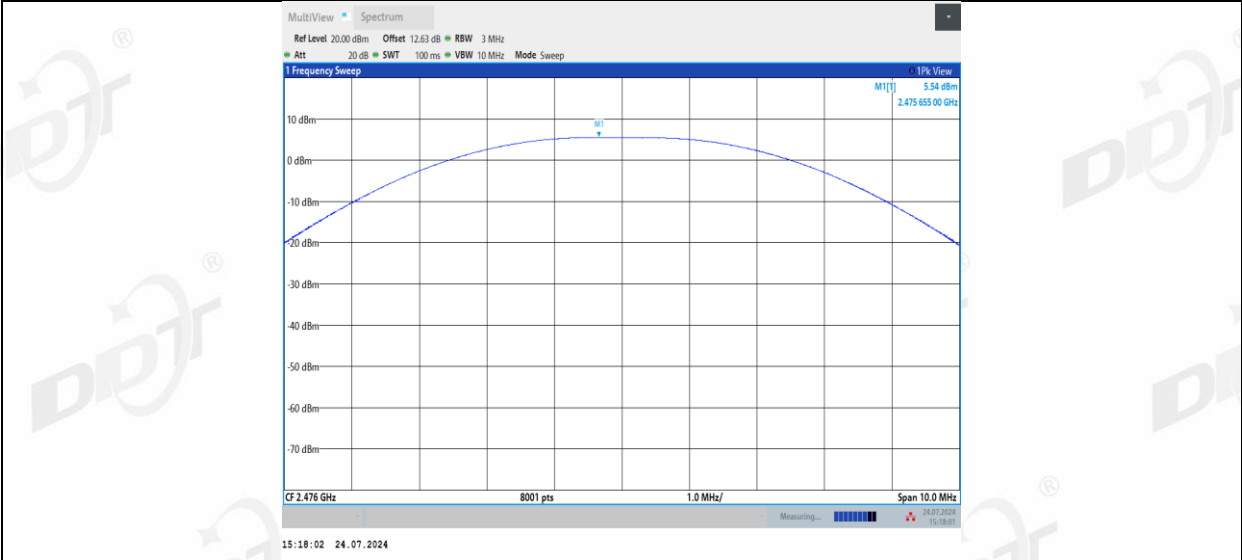
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
2.4G SRD	Ant1	2402	5.69	≤30	8.09	≤36	PASS
	Ant2	2402	6.35	≤30	8.75	≤36	PASS
	Ant1	2444	5.35	≤30	7.75	≤36	PASS
	Ant2	2444	6.33	≤30	8.73	≤36	PASS
	Ant1	2476	5.54	≤30	7.94	≤36	PASS
	Ant2	2476	6.18	≤30	8.58	≤36	PASS

6.5. Test graphs

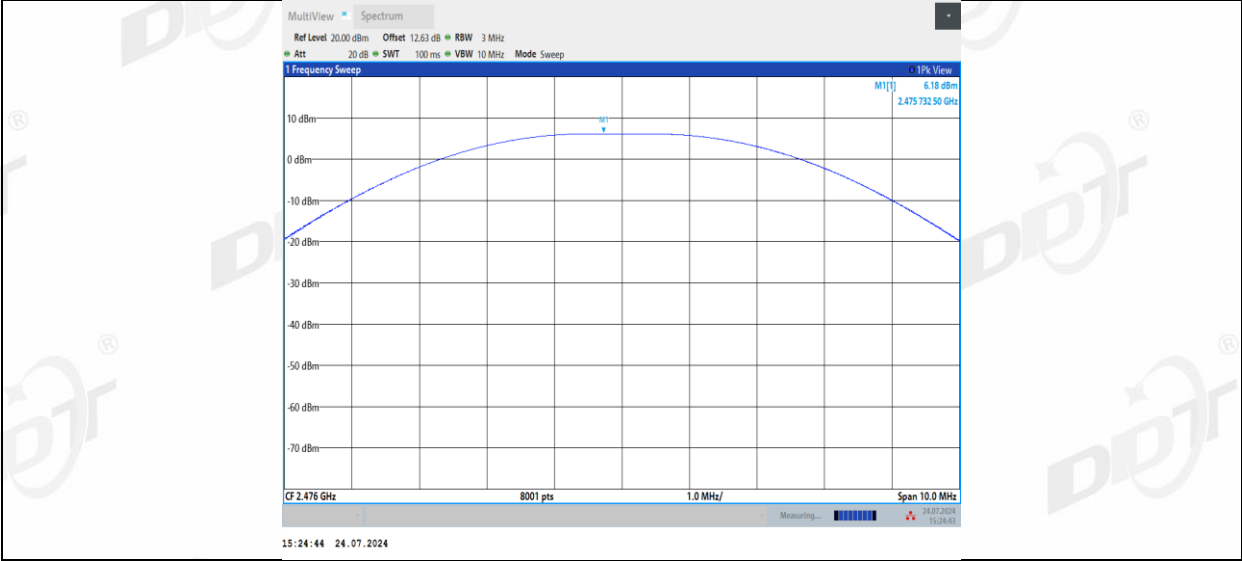




2.4G SRD_Ant1_2476

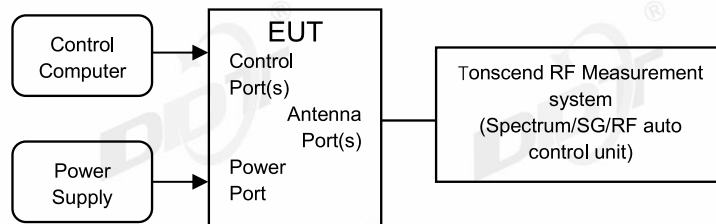


2.4G SRD_Ant2_2476



7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.10.2.
 - (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
 - (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
 - (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

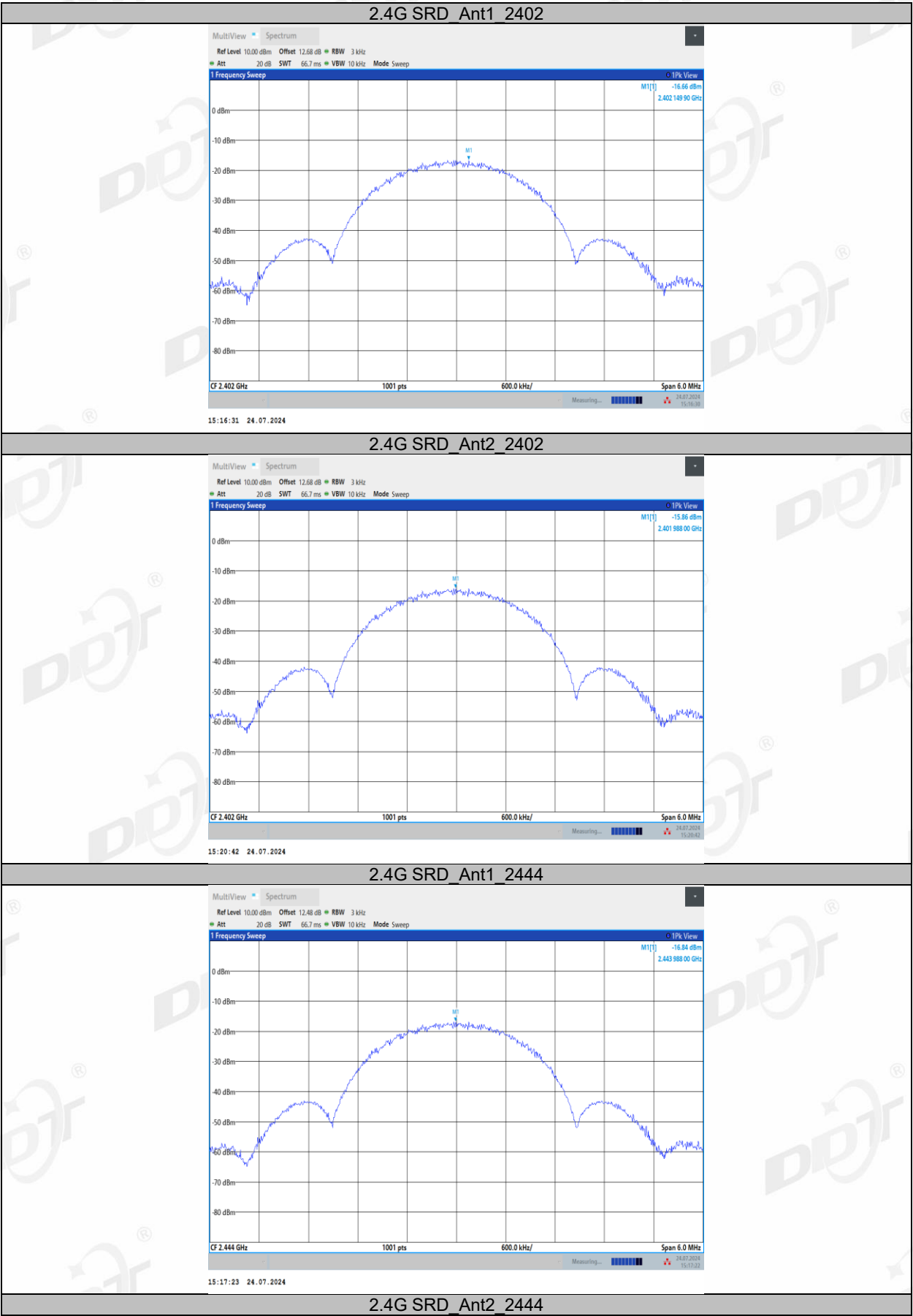
Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
 - (5) Allow the trace to stabilize, use the peak marker function to determine the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

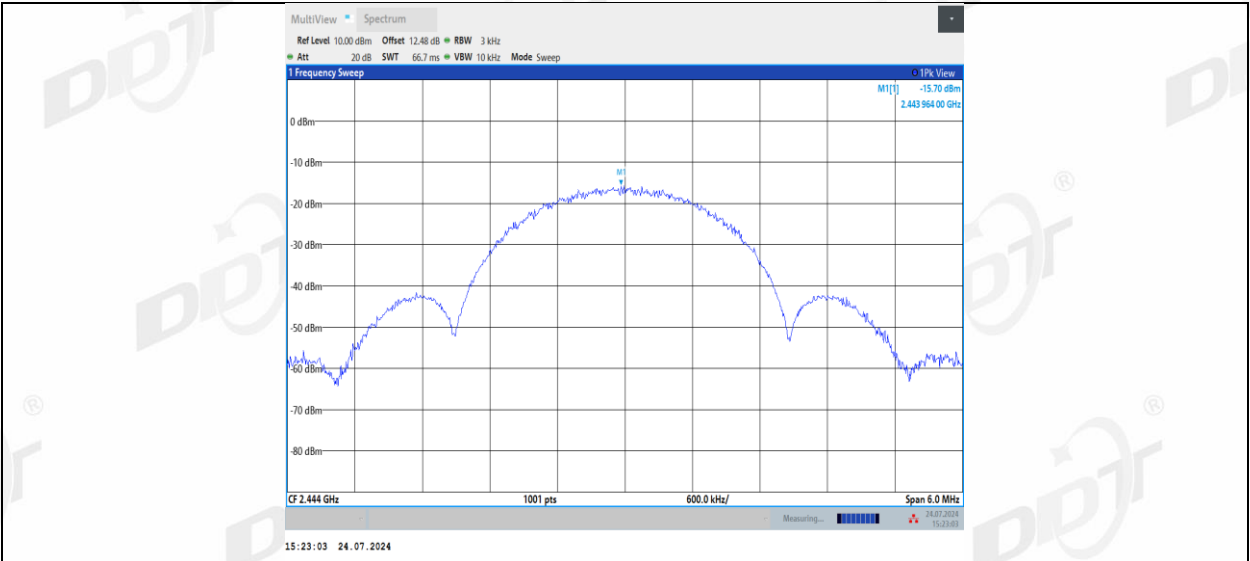
7.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.3℃,45.6%RH	Test Date:	2024.07.24
Test Power Supply:	AC230V/50Hz	Sample Number:	S24050708-009

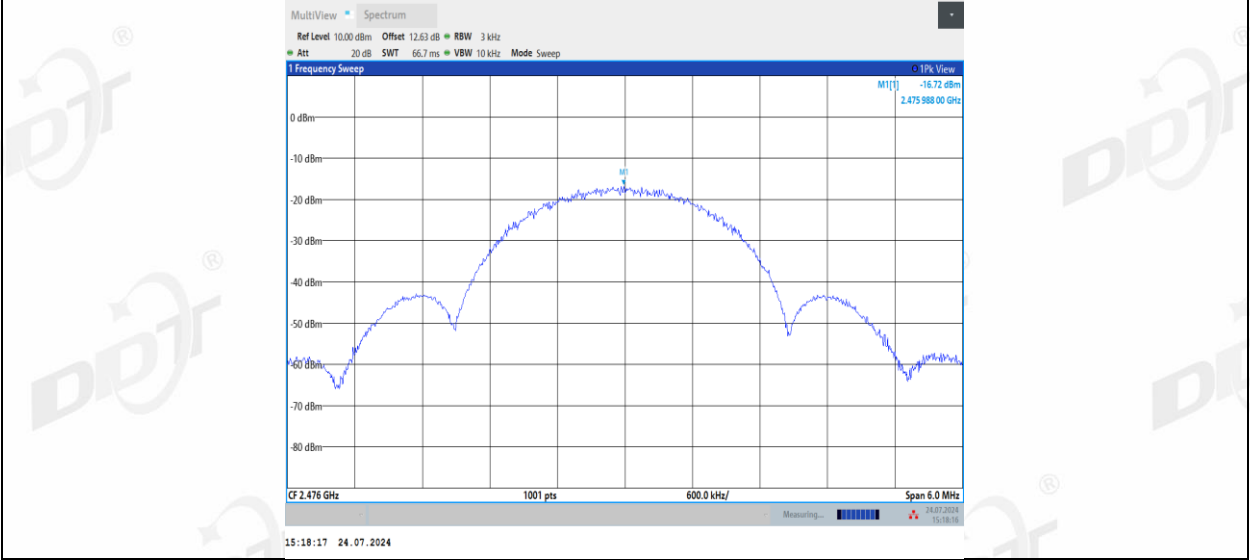
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
2.4G SRD	Ant1	2402	-16.66	≤8.00	PASS
	Ant2	2402	-15.86	≤8.00	PASS
	Ant1	2444	-16.84	≤8.00	PASS
	Ant2	2444	-15.70	≤8.00	PASS
	Ant1	2476	-16.72	≤8.00	PASS
	Ant2	2476	-15.90	≤8.00	PASS

7.5. Test graphs

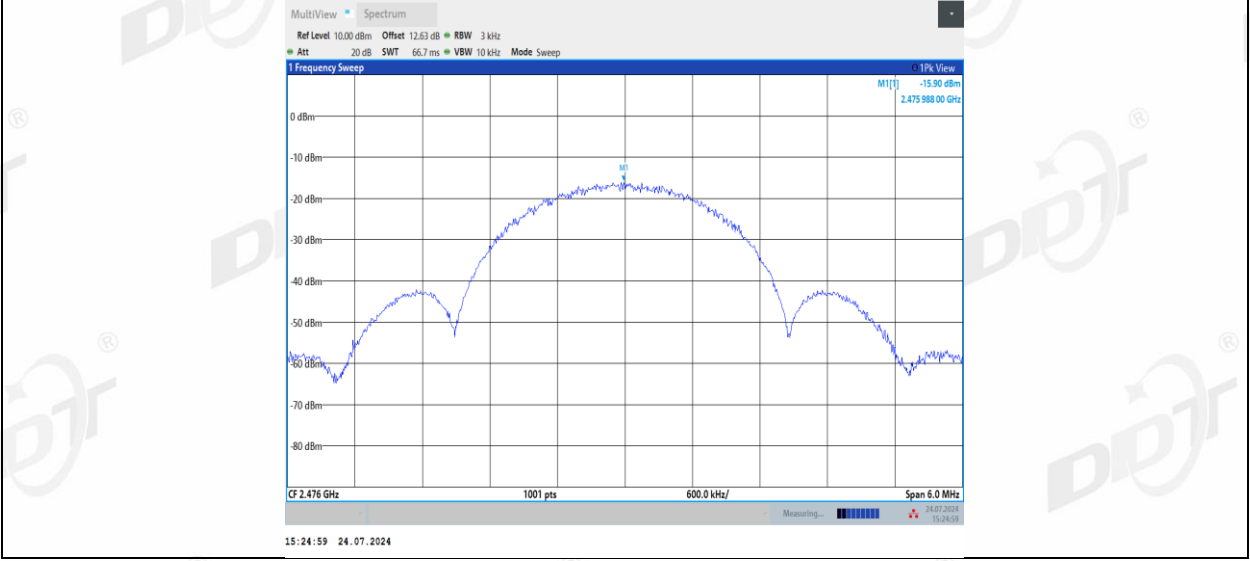




2.4G SRD_Ant1_2476

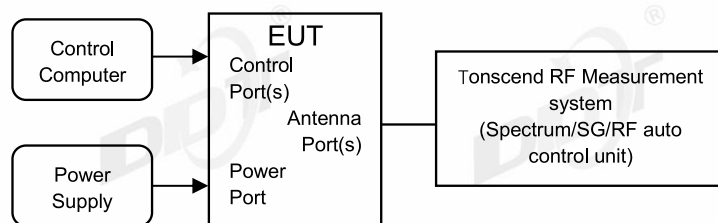


2.4G SRD_Ant2_2476



8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup



8.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

8.3. Test procedure

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

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

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

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

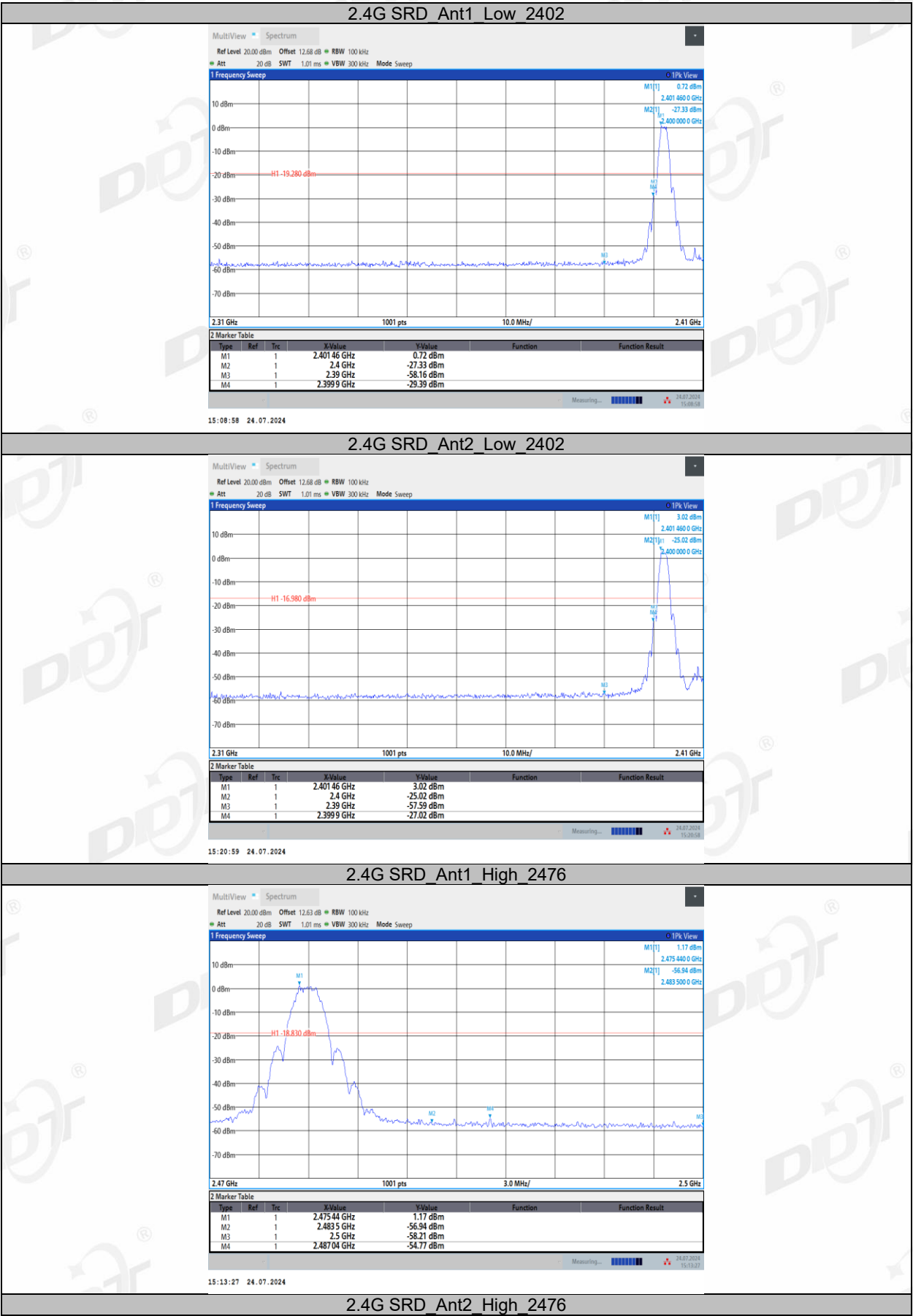
(4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

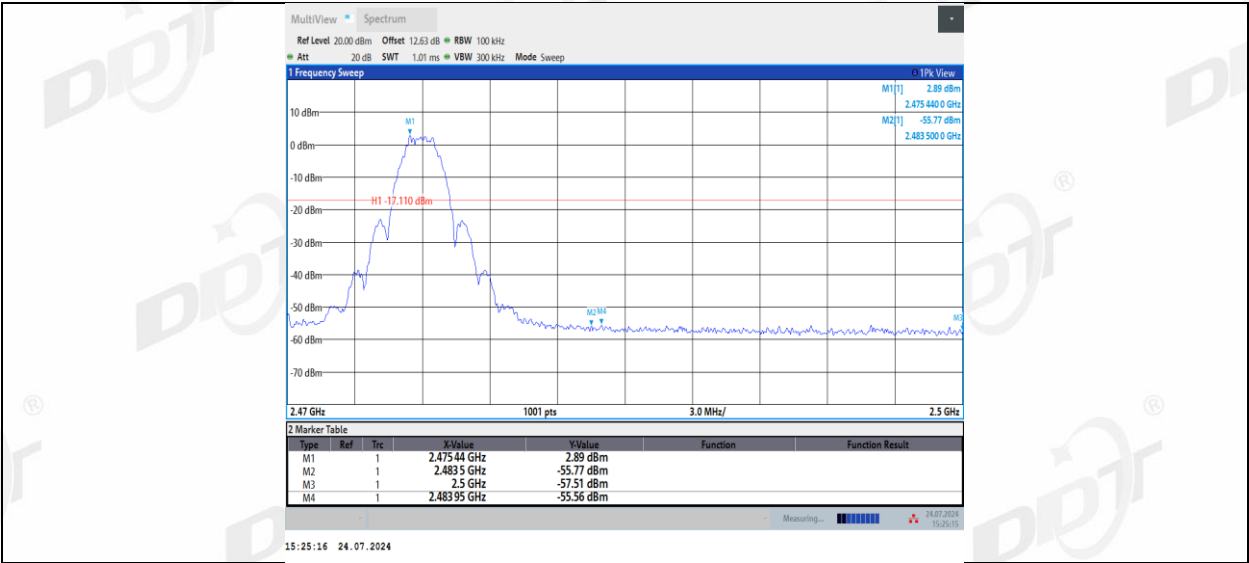
8.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.3℃,45.6%RH	Test Date:	2024.07.24
Test Power Supply:	AC230V/50Hz	Sample Number:	S24050708-009

EUT Set Mode	CH or Frequency	Measured Range	Verdict
2.4G SRD	2402	2.310 GHz - 2.410 GHz	Pass
	2476	2.470 GHz - 2.500 GHz	Pass

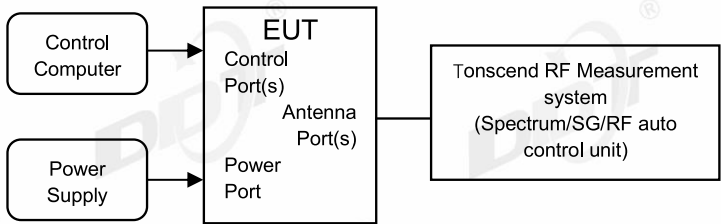
8.5. Test graphs





9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup



9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

9.3. Test procedure

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

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- Set the spectrum analyzer as follows:

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

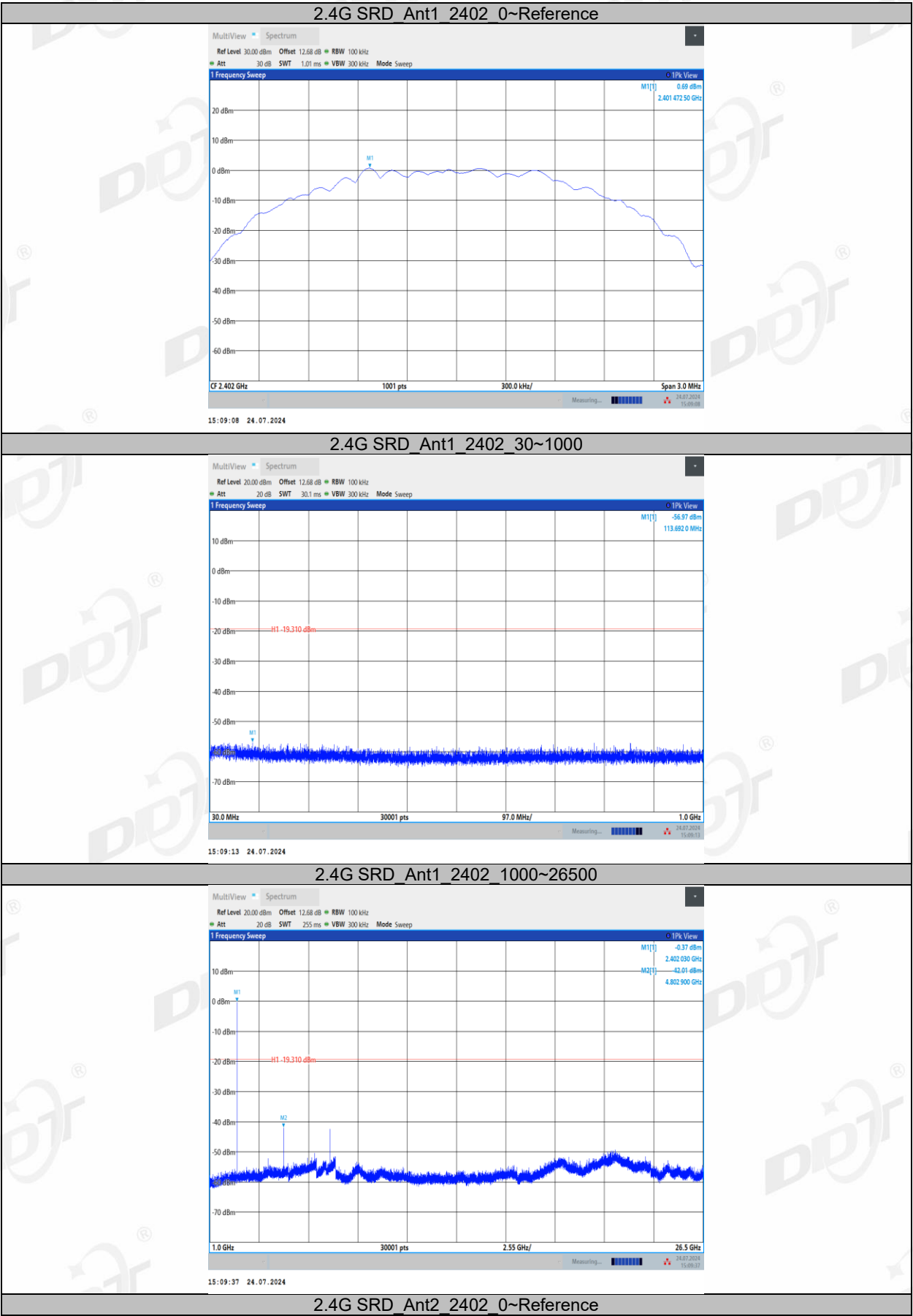
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

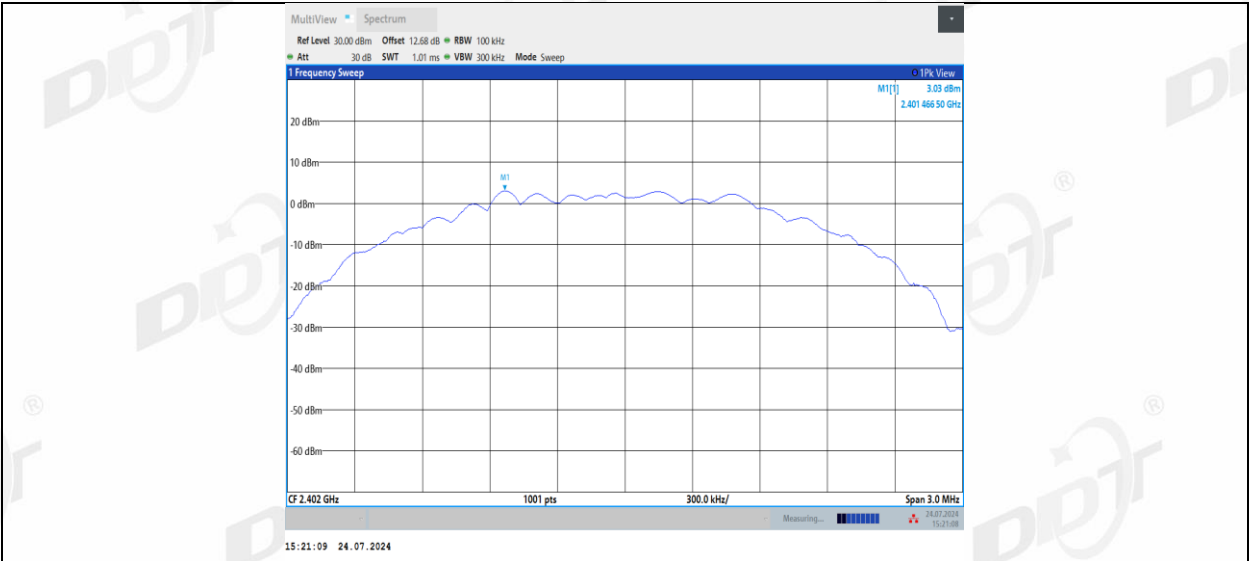
9.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	26.3℃,45.6%RH	Test Date:	2024.07.24
Test Power Supply:	AC230V/50Hz	Sample Number:	S24050708-009

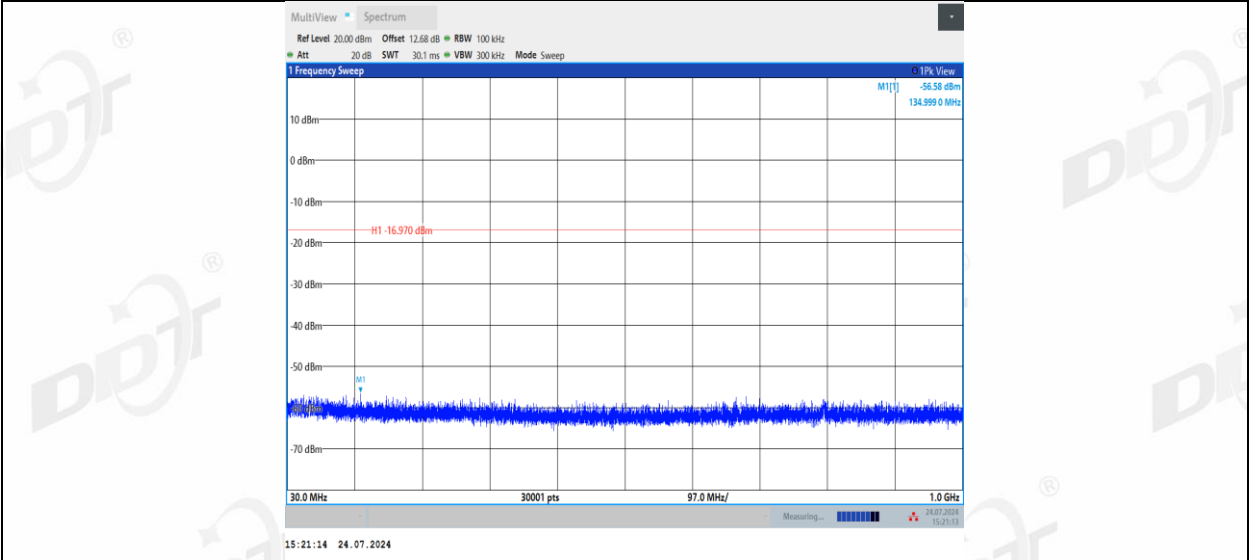
Mode	Freq. (MHz)	Verdict
2.4G SRD	2402	Pass
	2444	Pass
	2476	Pass

9.5. Test graphs

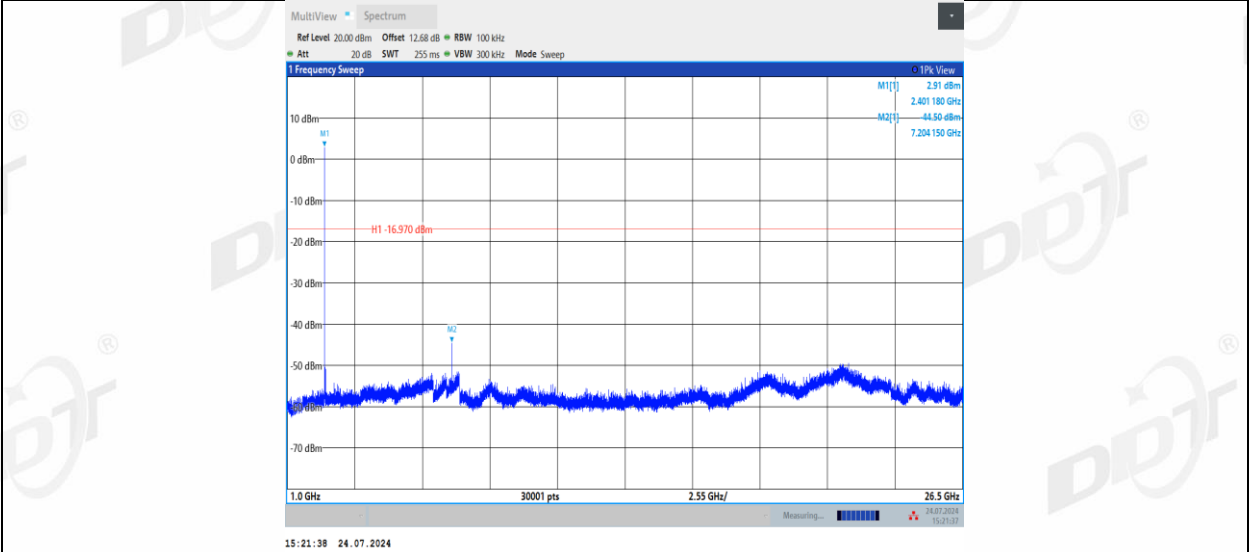




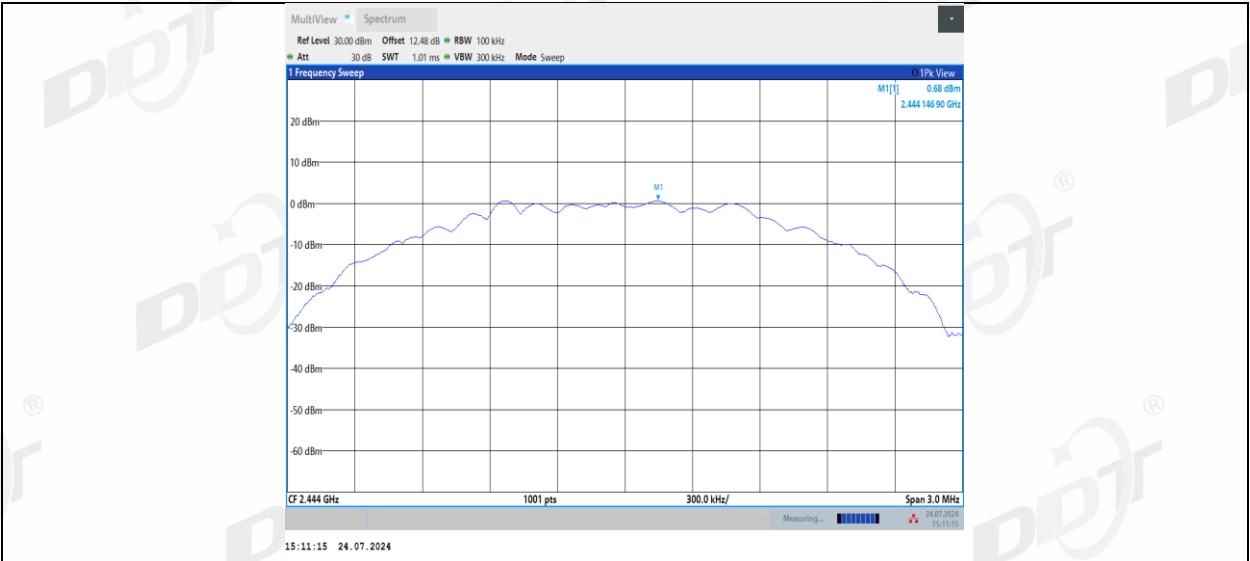
2.4G SRD_Ant2_2402_30~1000



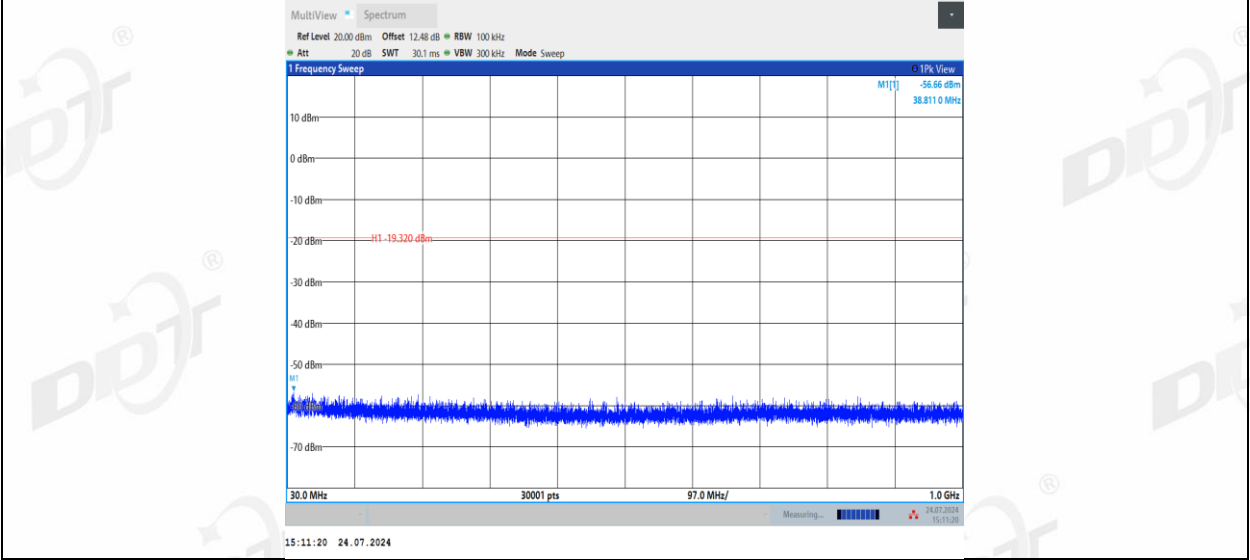
2.4G SRD_Ant2_2402_1000~26500



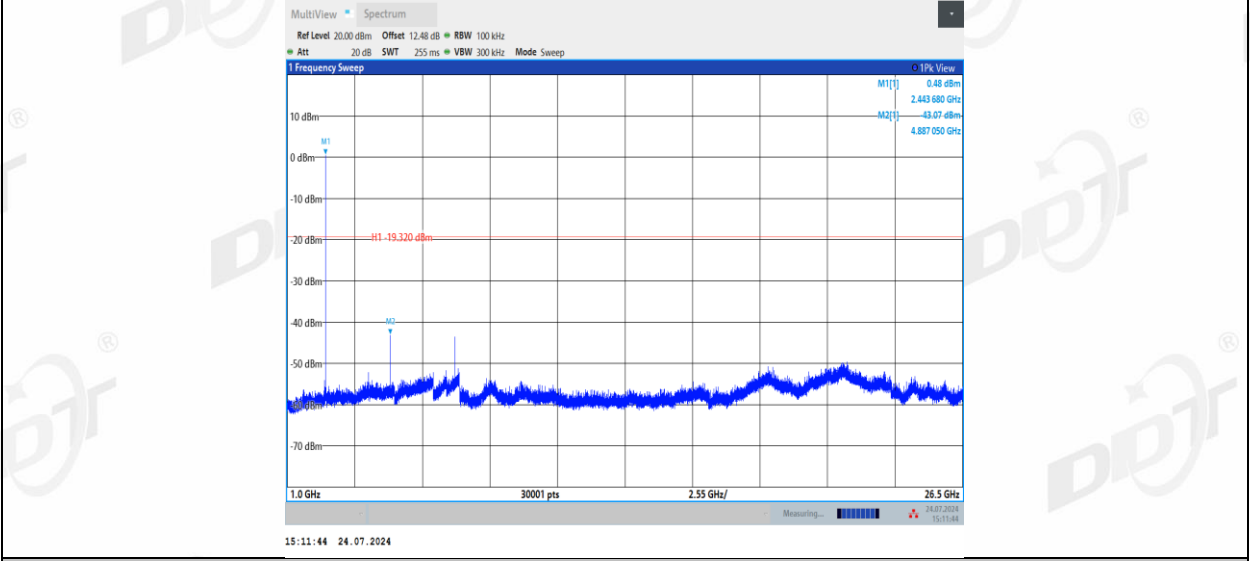
2.4G SRD_Ant1_2444_0~Reference



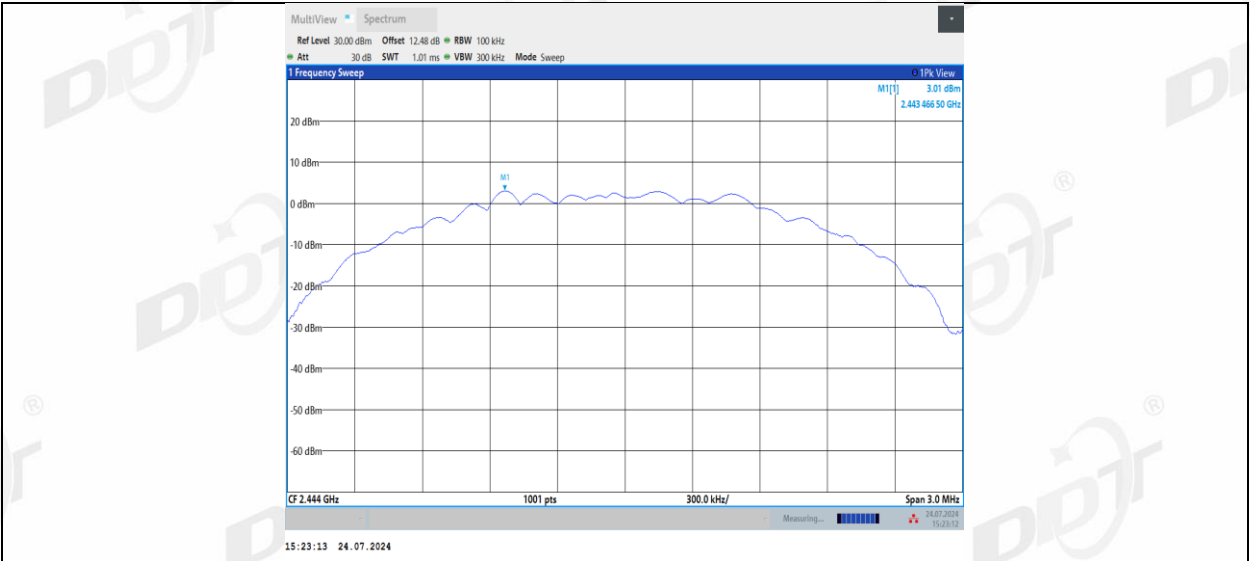
2.4G SRD_Ant1_2444_30~1000



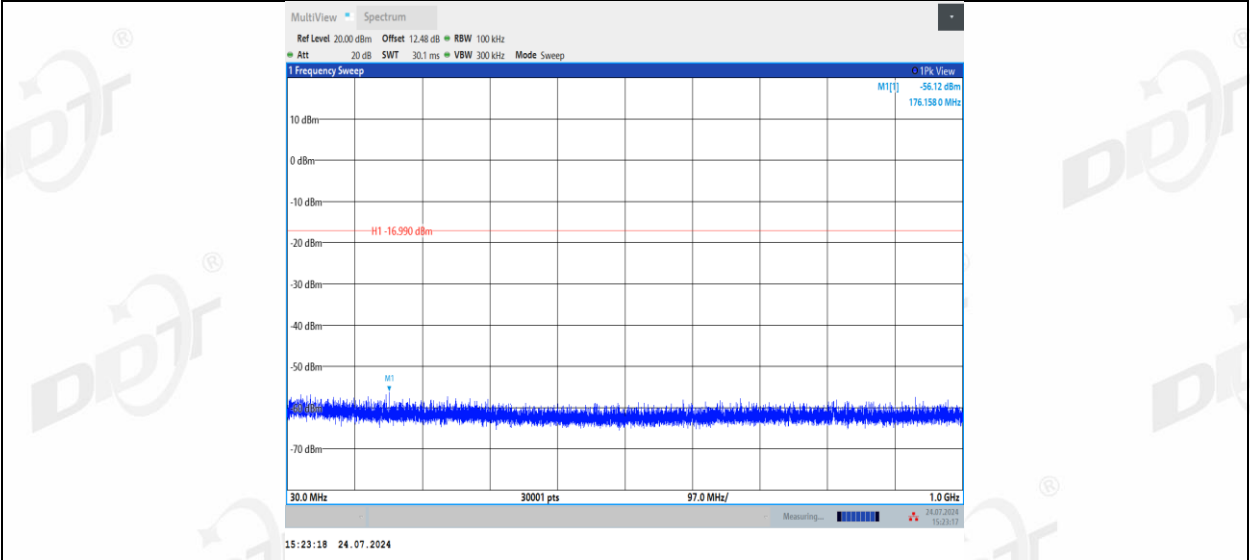
2.4G SRD_Ant1_2444_1000~26500



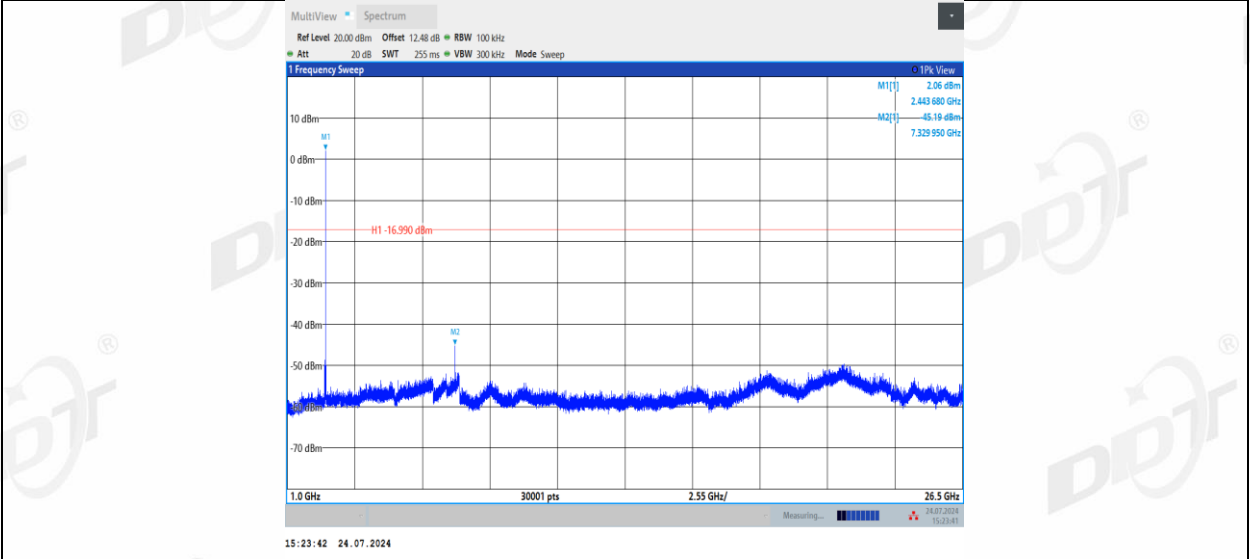
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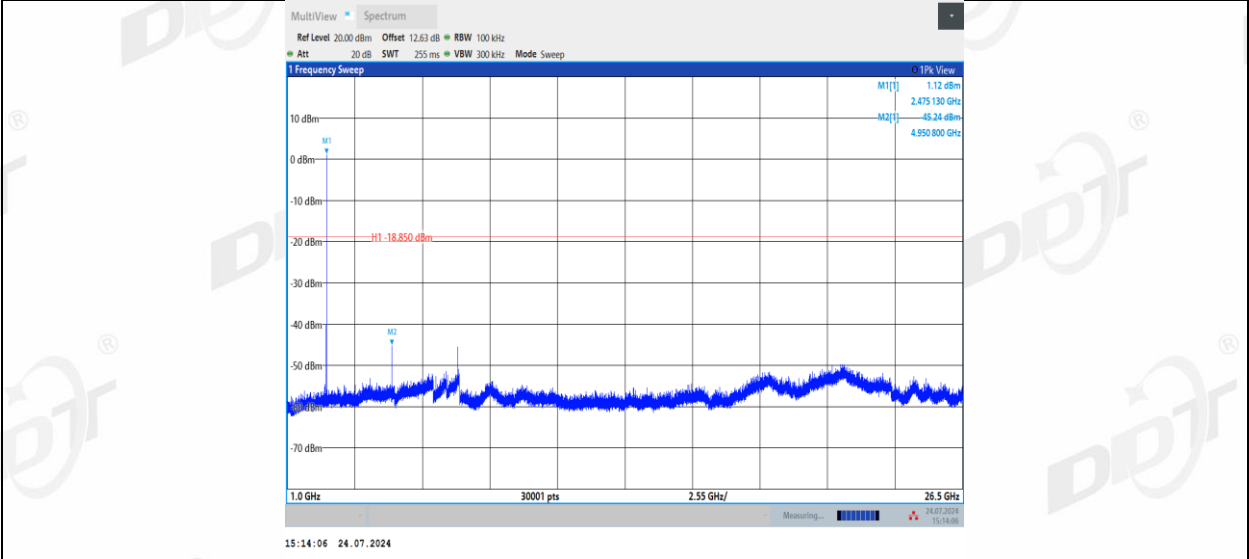
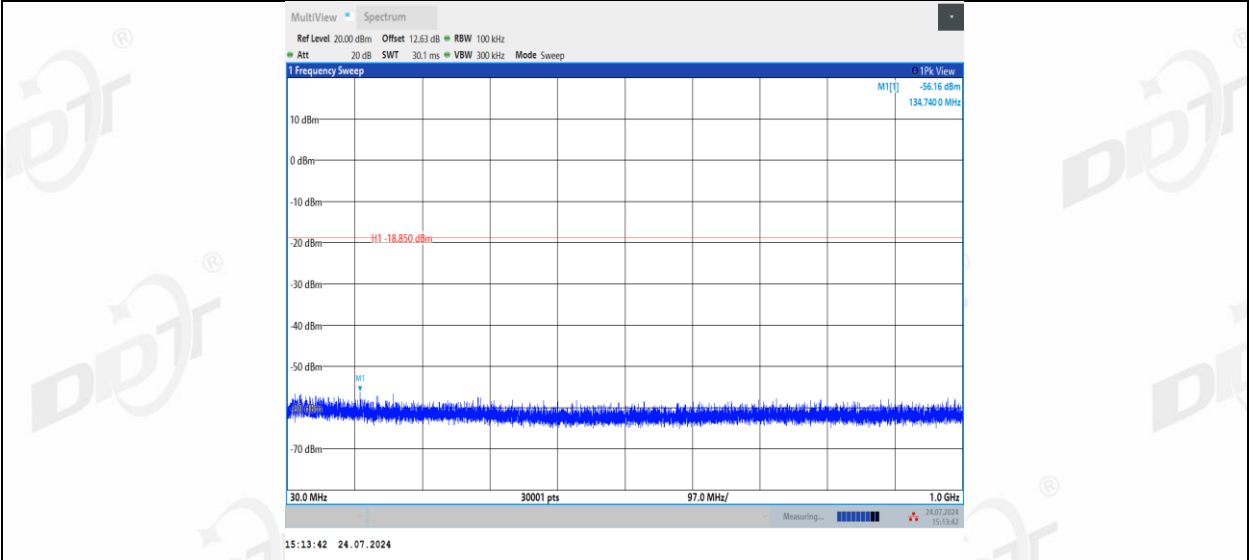
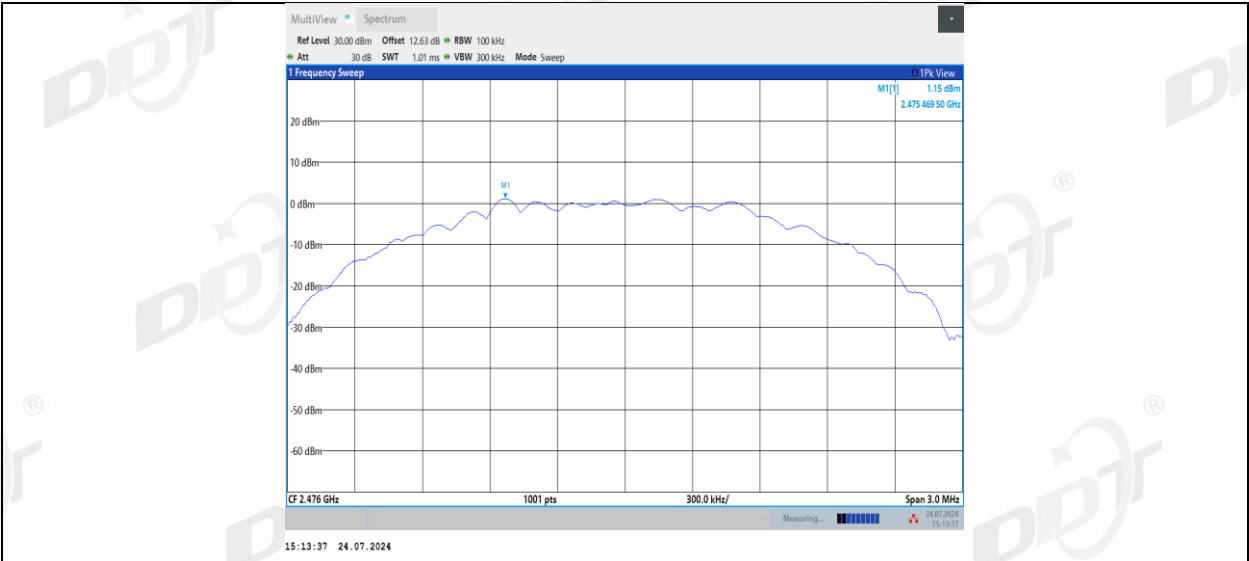
2.4G SRD_Ant2_2444_30~1000

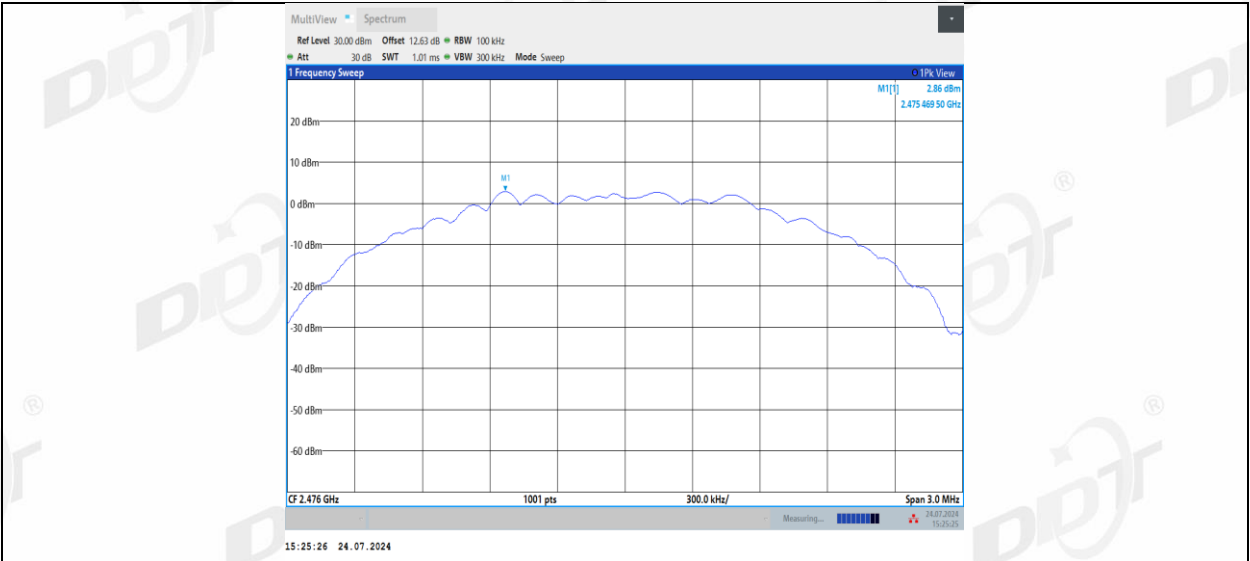


2.4G SRD_Ant2_2444_1000~26500

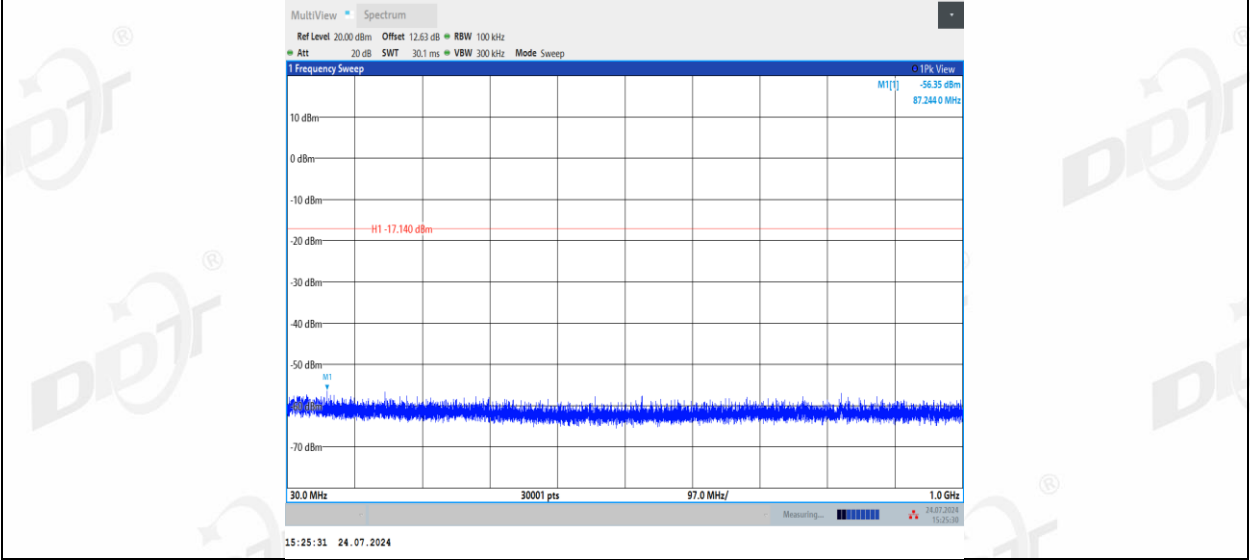


2.4G SRD_Ant1_2476_0~Reference

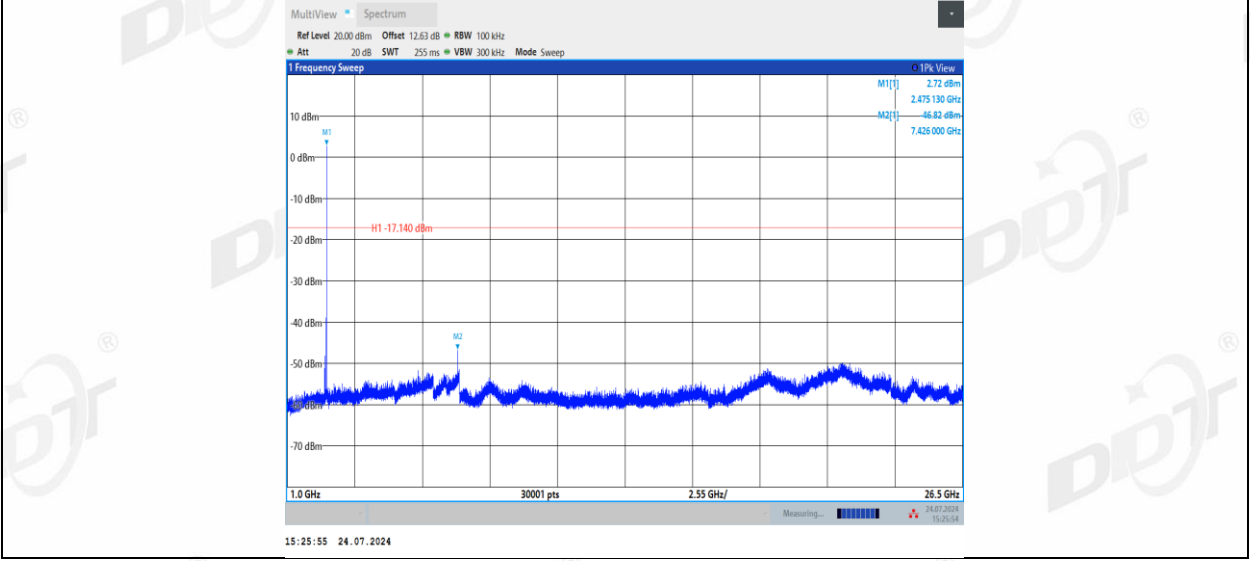




2.4G SRD_Ant2_2476_30~1000



2.4G SRD_Ant2_2476_1000~26500



10. Antenna Requirements

10.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

10.2. Result

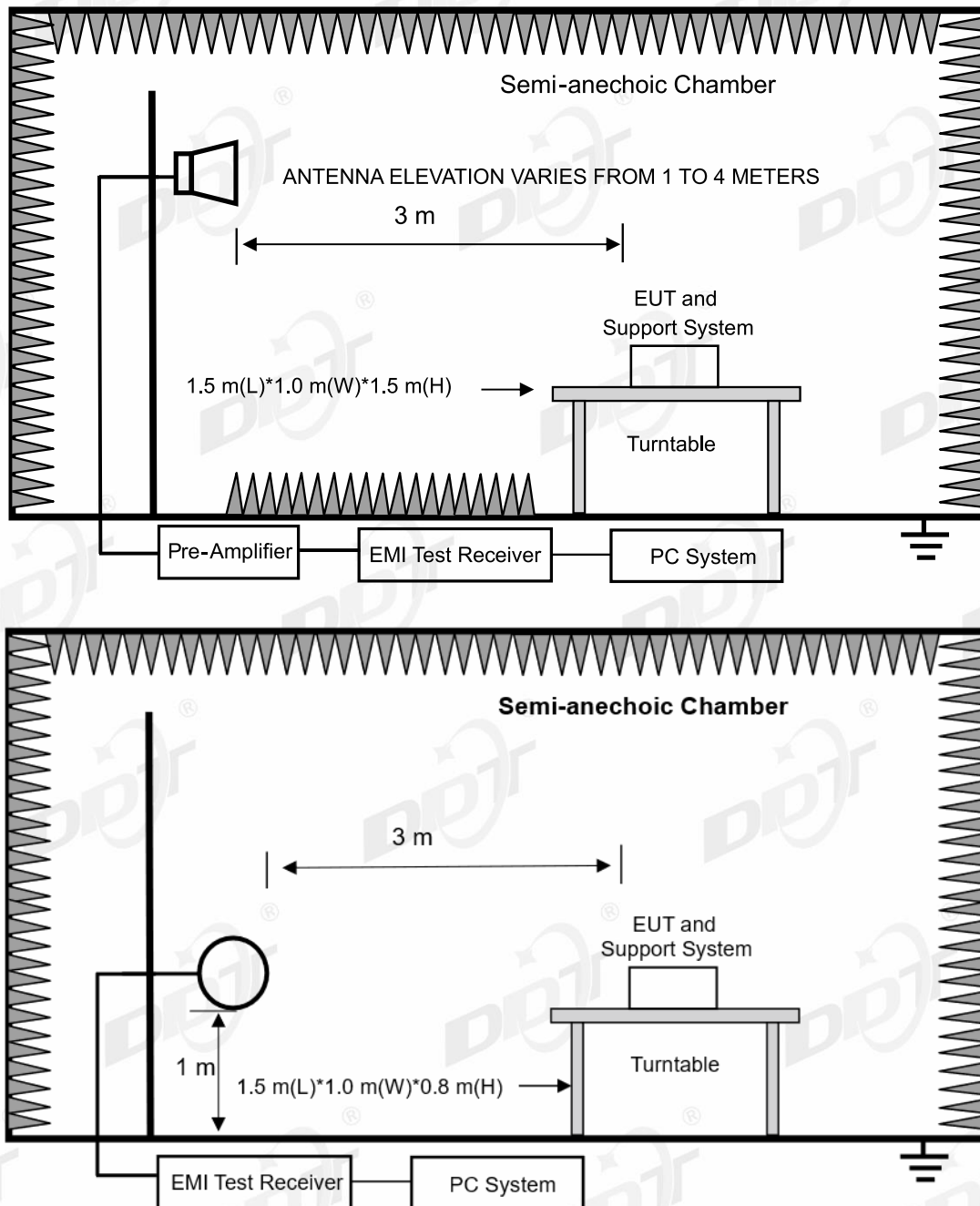
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

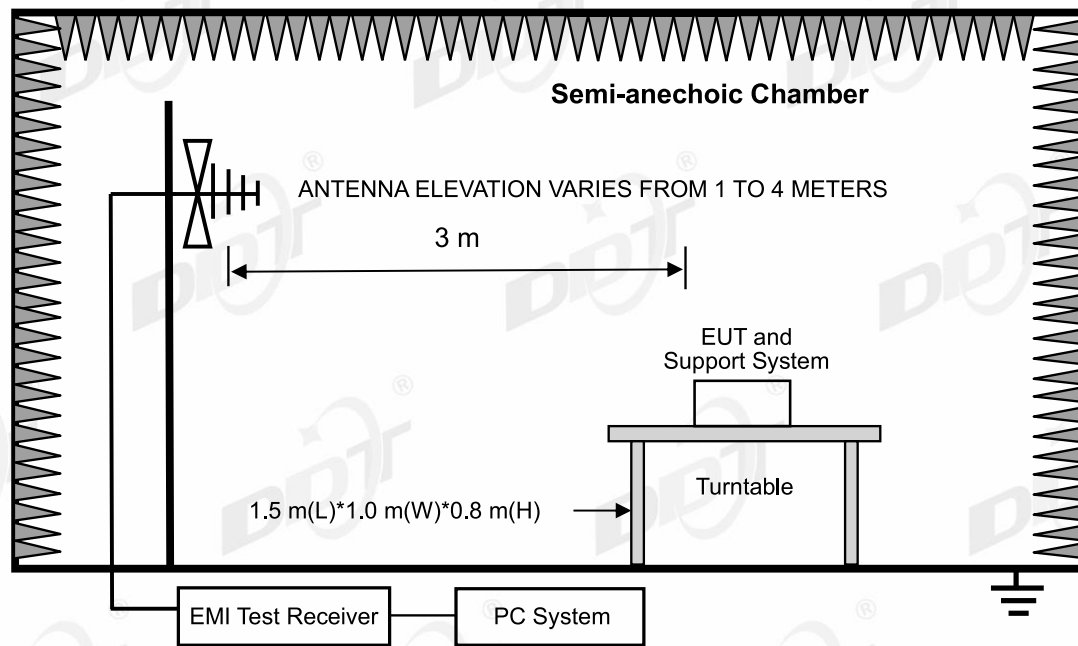
11.Radiated Emission

11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
RF cable	Yuhu Technology	ZT26S-SMAJ- SMAJ-1M	DDT-ZC02037	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF cable	Yuhu Technology	JCTB810-NJ-NJ- 9M	DDT-ZC02538	2025/03/31
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ- 1.5M	DDT-ZC02762	2025/03/31
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Hochgewinn- Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31

11.2. Block diagram of test setup





11.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		mV/m	dB(mV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

11.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	DELL	038C0A5A-F922-40B9-A219-8D44E9D18F8D	Fixed frequency computer	N/A

11.5. Test procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT through three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(10) For 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is reported)

(11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode.

11.6. Test result

PASS. (See below detailed test result)

11.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-07

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

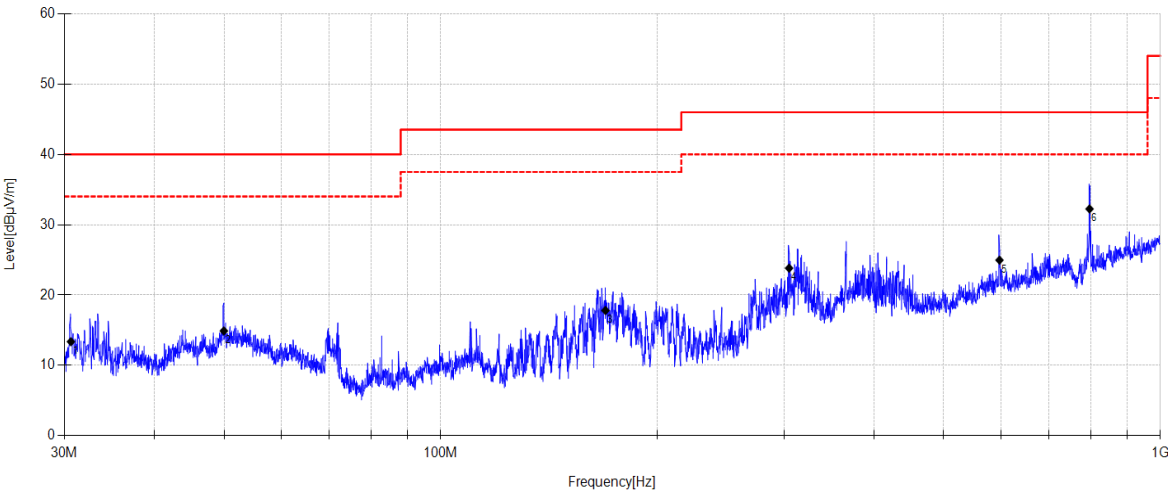
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File Path:

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Memo:

Sample Number: S24050708-008



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.638	30.25	10.36	3.76	-30.99	13.38	40.00	26.62	QP	Horizontal
2	49.981	28.73	12.99	3.88	-30.70	14.90	40.00	25.10	QP	Horizontal
3	169.421	34.77	9.14	4.59	-30.69	17.81	43.50	25.69	QP	Horizontal
4	304.896	35.18	13.70	5.24	-30.29	23.83	46.00	22.17	QP	Horizontal
5	597.704	29.49	19.02	6.36	-29.90	24.97	46.00	21.03	QP	Horizontal
6	797.337	35.23	19.97	6.94	-29.90	32.24	46.00	13.76	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-07

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

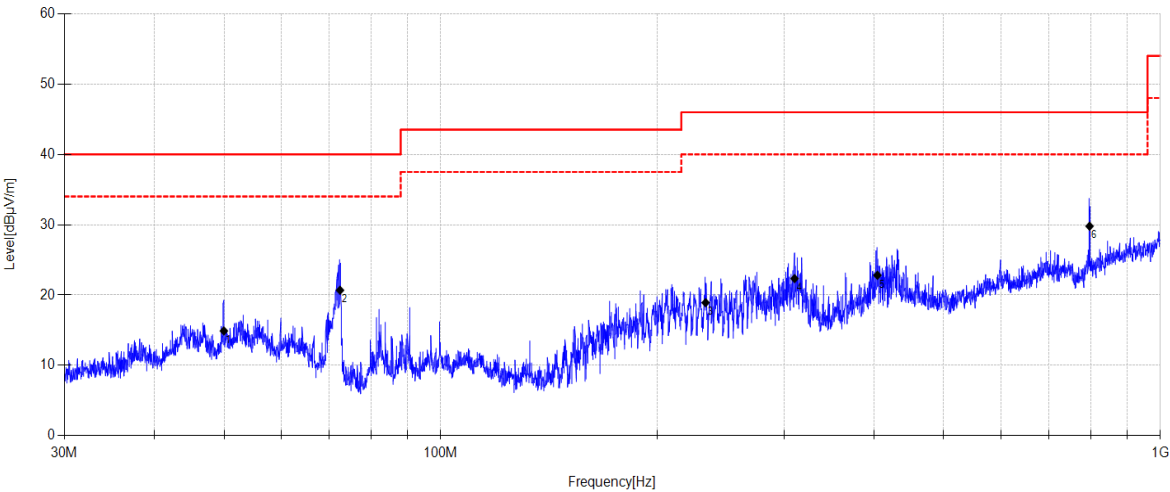
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Memo:

Sample Number: S24050708-008



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	49.981	28.73	12.99	3.88	-30.70	14.90	40.00	25.10	QP	Vertical
2	72.477	37.79	9.41	4.04	-30.55	20.69	40.00	19.31	QP	Vertical
3	233.417	32.98	11.53	4.91	-30.50	18.92	46.00	27.08	QP	Vertical
4	310.288	34.06	13.31	5.26	-30.28	22.35	46.00	23.65	QP	Vertical
5	404.456	32.23	15.03	5.64	-30.09	22.81	46.00	23.19	QP	Vertical
6	797.337	32.78	19.97	6.94	-29.90	29.79	46.00	16.21	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-07

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

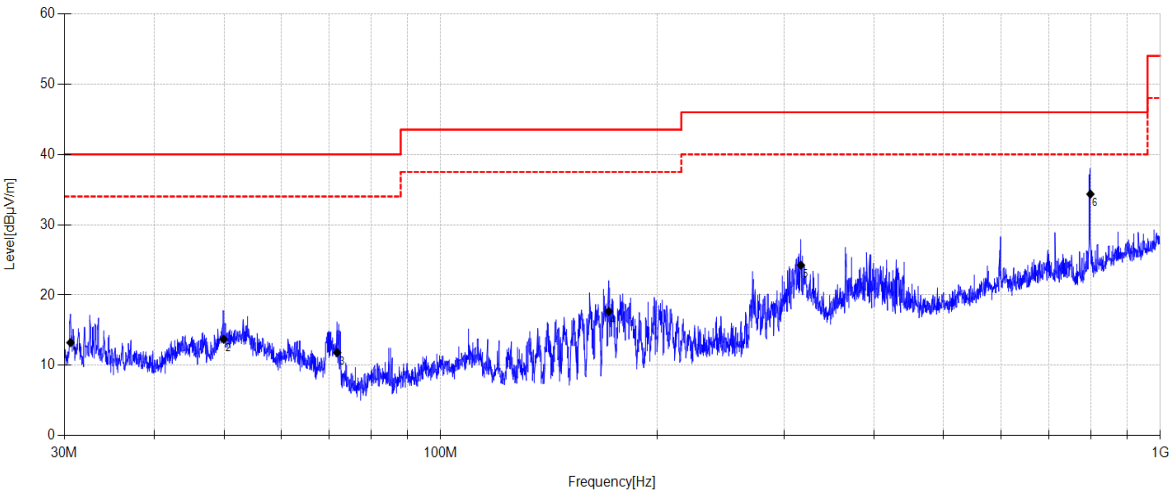
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Memo:

Sample Number: S24050708-008



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.595	30.11	10.36	3.76	-30.99	13.24	40.00	26.76	QP	Horizontal
2	49.946	27.56	12.98	3.88	-30.70	13.72	40.00	26.28	QP	Horizontal
3	71.819	28.76	9.58	4.03	-30.55	11.82	40.00	28.18	QP	Horizontal
4	171.213	34.25	9.51	4.60	-30.69	17.67	43.50	25.83	QP	Horizontal
5	316.662	35.56	13.67	5.29	-30.27	24.25	46.00	21.75	QP	Horizontal
6	799.576	37.56	19.74	6.95	-29.90	34.35	46.00	11.65	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-07

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

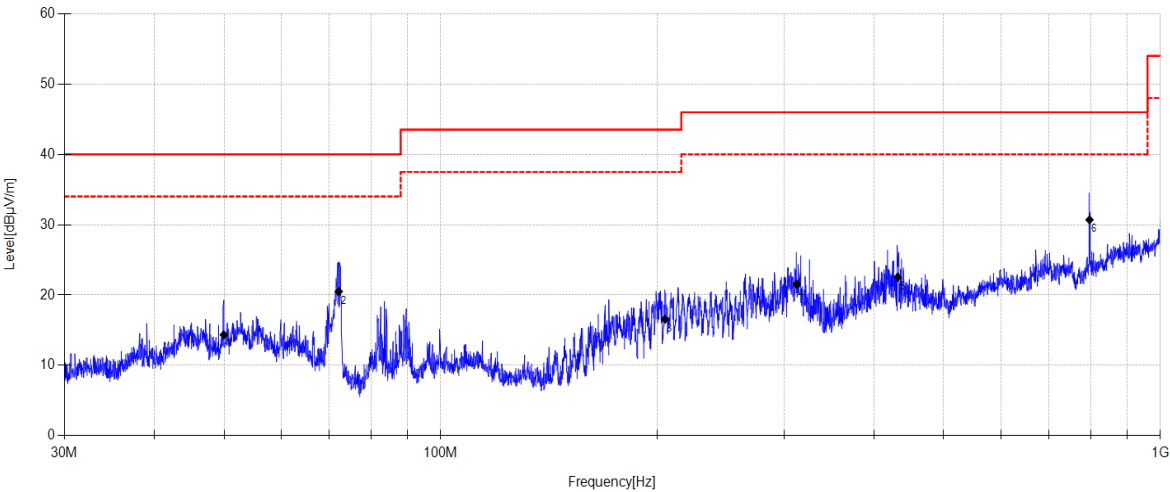
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Memo:

Sample Number: S24050708-008



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	49.981	28.18	12.99	3.88	-30.70	14.35	40.00	25.65	QP	Vertical
2	72.173	37.5	9.53	4.04	-30.55	20.52	40.00	19.48	QP	Vertical
3	205.020	31.76	10.60	4.78	-30.58	16.56	43.50	26.94	QP	Vertical
4	312.252	33.16	13.39	5.27	-30.28	21.54	46.00	24.46	QP	Vertical
5	431.709	31.1	15.74	5.74	-30.04	22.54	46.00	23.46	QP	Vertical
6	797.337	33.69	19.97	6.94	-29.90	30.70	46.00	15.30	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

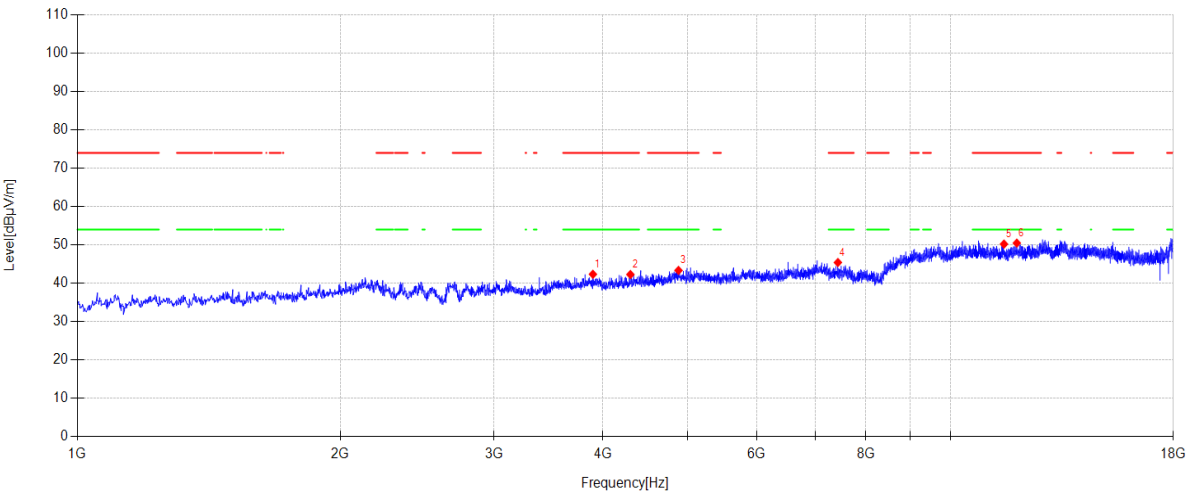
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq.[MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3895.100	46.50	31.17	5.07	-40.39	42.35	74.00	31.65	PK	Horizontal
2	4299.700	45.80	31.60	5.23	-40.34	42.29	74.00	31.71	PK	Horizontal
3	4881.100	44.60	33.30	5.58	-40.12	43.36	74.00	30.64	PK	Horizontal
4	7431.100	43.89	36.64	6.67	-41.78	45.42	74.00	28.58	PK	Horizontal
5	11516.200	41.92	39.17	8.46	-39.33	50.22	74.00	23.78	PK	Horizontal
6	11912.300	42.36	38.94	8.70	-39.52	50.48	74.00	23.52	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

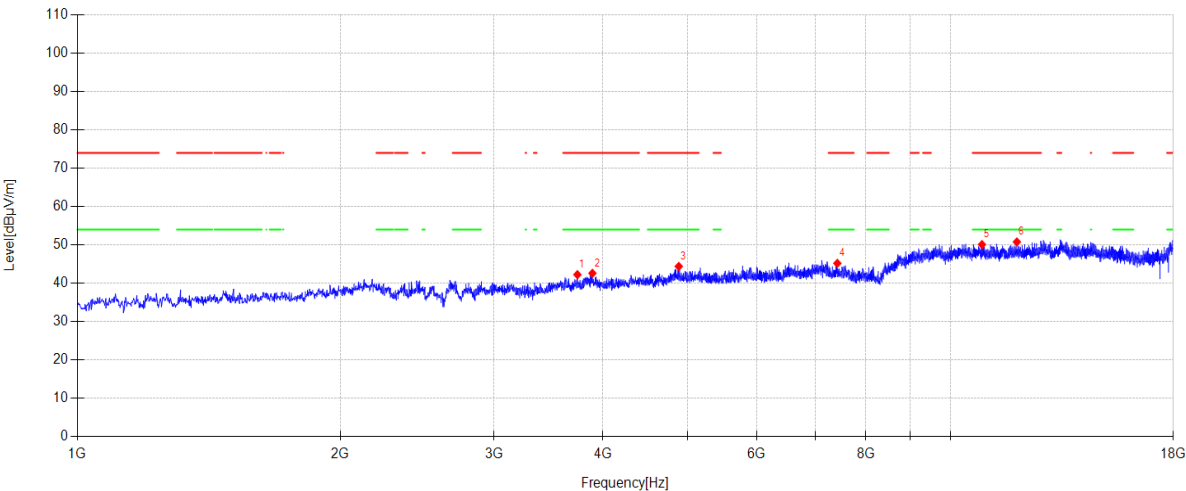
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3738.700	46.97	30.48	5.09	-40.29	42.25	74.00	31.75	PK	Vertical
2	3890.000	46.78	31.14	5.07	-40.38	42.61	74.00	31.39	PK	Vertical
3	4884.500	45.69	33.25	5.58	-40.12	44.40	74.00	29.60	PK	Vertical
4	7420.900	43.63	36.66	6.66	-41.75	45.20	74.00	28.80	PK	Vertical
5	10866.800	41.75	39.33	8.06	-39.04	50.10	74.00	23.90	PK	Vertical
6	11914.000	42.65	38.94	8.71	-39.52	50.78	74.00	23.22	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

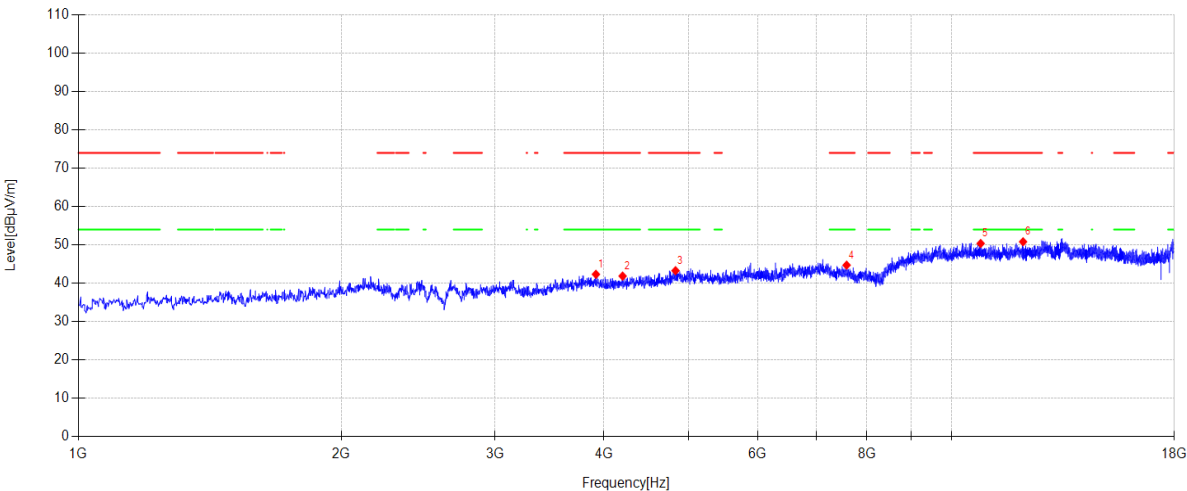
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3915.500	46.51	31.17	5.06	-40.40	42.34	74.00	31.66	PK	Horizontal
2	4201.100	45.88	31.20	5.17	-40.38	41.87	74.00	32.13	PK	Horizontal
3	4830.100	44.60	33.28	5.55	-40.14	43.29	74.00	30.71	PK	Horizontal
4	7584.100	43.66	36.47	6.75	-42.16	44.72	74.00	29.28	PK	Horizontal
5	10800.500	41.97	39.40	8.03	-39.02	50.38	74.00	23.62	PK	Horizontal
6	12078.900	42.34	39.28	8.80	-39.59	50.83	74.00	23.17	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

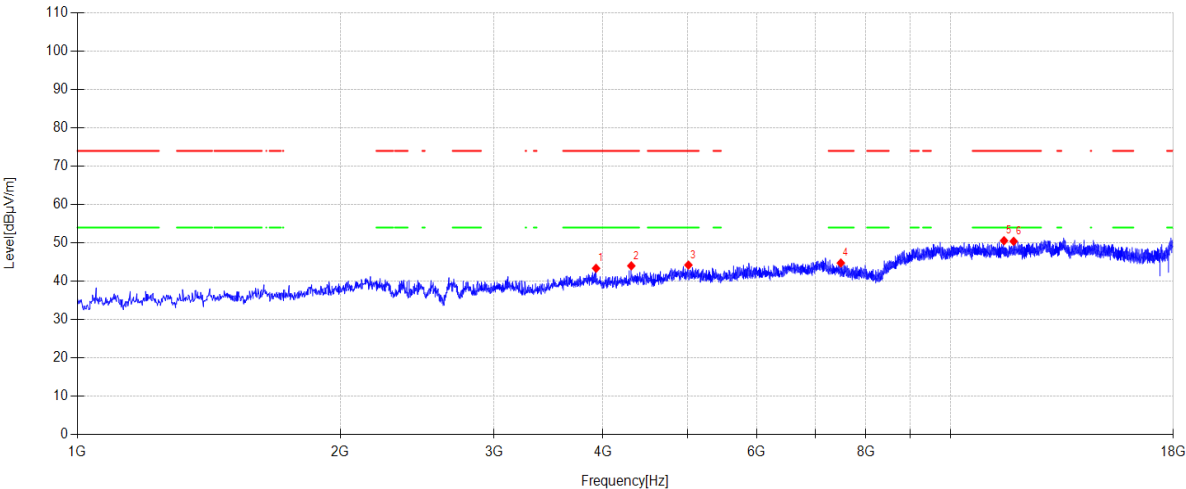
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3927.400	47.59	31.15	5.06	-40.41	43.39	74.00	30.61	PK	Vertical
2	4309.900	47.52	31.60	5.24	-40.34	44.02	74.00	29.98	PK	Vertical
3	5010.300	45.43	33.22	5.66	-40.08	44.23	74.00	29.77	PK	Vertical
4	7488.900	43.46	36.52	6.70	-41.92	44.76	74.00	29.24	PK	Vertical
5	11517.900	42.29	39.16	8.46	-39.33	50.58	74.00	23.42	PK	Vertical
6	11813.700	42.36	38.90	8.64	-39.47	50.43	74.00	23.57	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2444MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

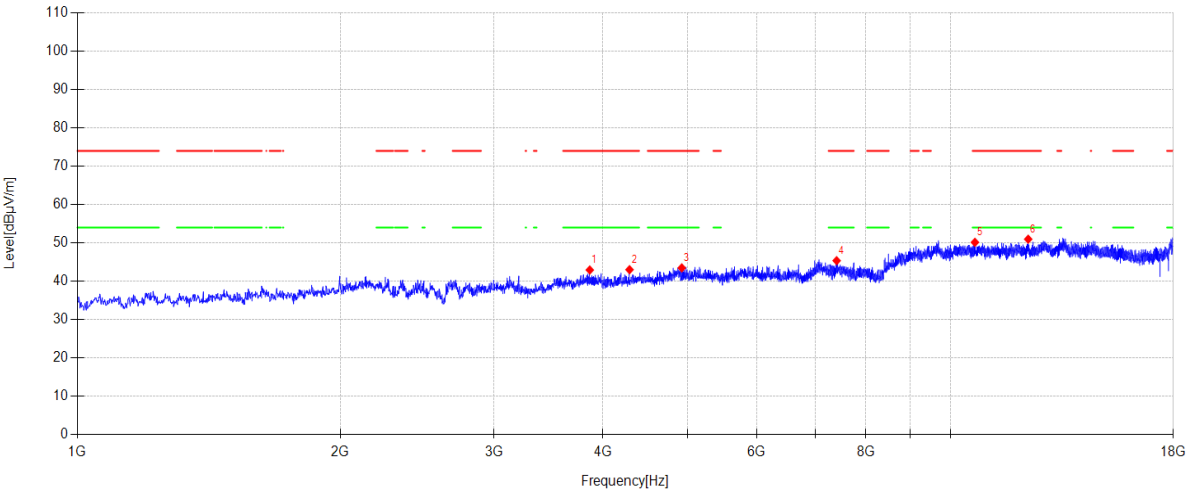
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3862.800	47.27	30.98	5.07	-40.37	42.95	74.00	31.05	PK	Horizontal
2	4289.500	46.59	31.56	5.22	-40.34	43.03	74.00	30.97	PK	Horizontal
3	4923.600	44.96	33.05	5.60	-40.11	43.50	74.00	30.50	PK	Horizontal
4	7407.300	43.74	36.69	6.66	-41.72	45.37	74.00	28.63	PK	Horizontal
5	10666.200	41.83	39.33	7.96	-38.97	50.15	74.00	23.85	PK	Horizontal
6	12276.100	42.44	39.30	8.90	-39.67	50.97	74.00	23.03	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2444MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

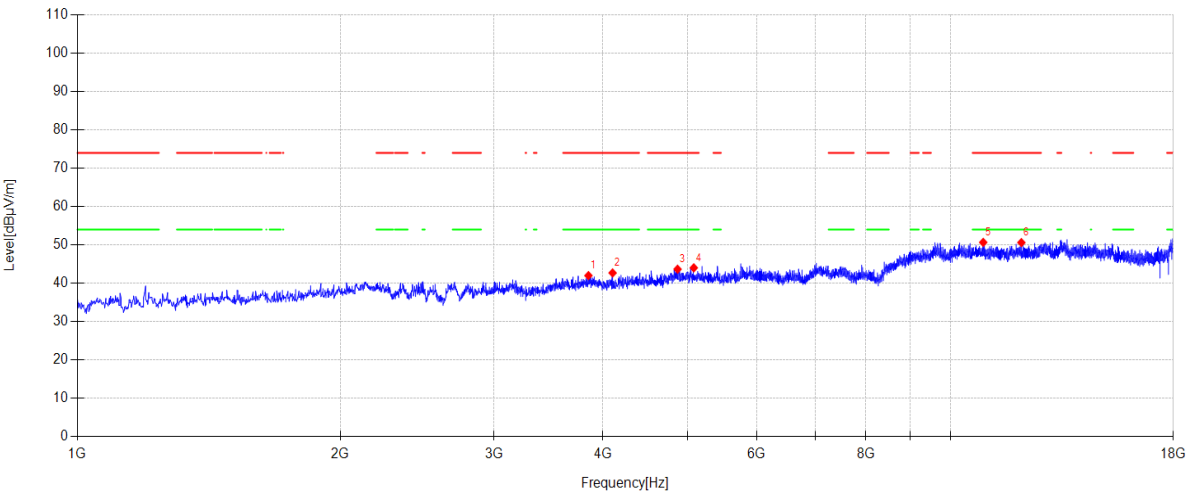
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3849.200	46.39	30.90	5.08	-40.36	42.01	74.00	31.99	PK	Vertical
2	4102.500	46.89	31.11	5.11	-40.41	42.70	74.00	31.30	PK	Vertical
3	4869.200	44.74	33.49	5.57	-40.13	43.67	74.00	30.33	PK	Vertical
4	5081.700	45.05	33.36	5.69	-40.07	44.03	74.00	29.97	PK	Vertical
5	10902.500	42.33	39.30	8.08	-39.05	50.66	74.00	23.34	PK	Vertical
6	12056.800	42.14	39.26	8.79	-39.58	50.61	74.00	23.39	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2444MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

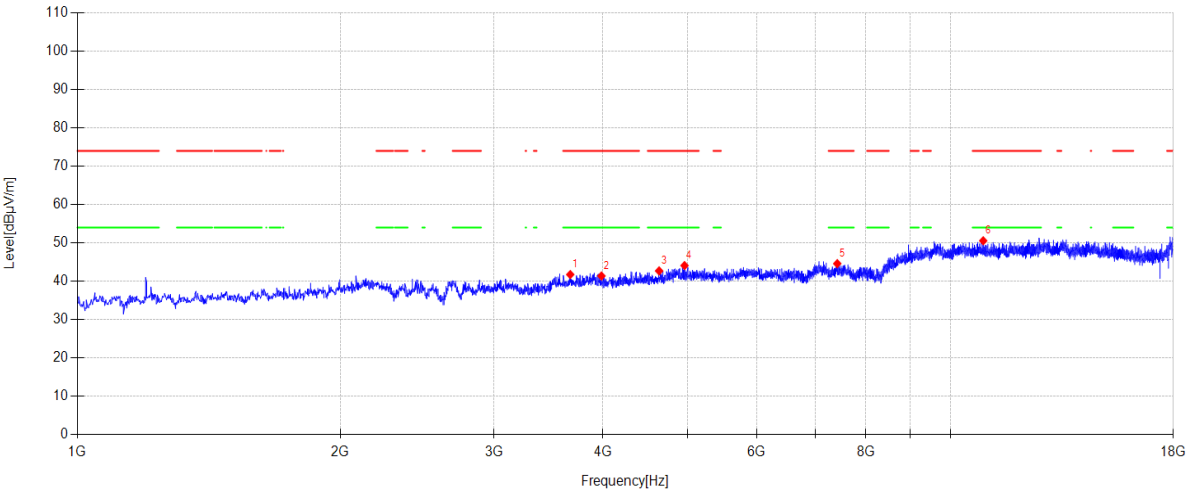
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3669.000	46.62	30.28	5.11	-40.25	41.76	74.00	32.24	PK	Horizontal
2	3983.500	45.81	30.97	5.05	-40.44	41.39	74.00	32.61	PK	Horizontal
3	4638.000	45.51	31.98	5.43	-40.21	42.71	74.00	31.29	PK	Horizontal
4	4959.300	45.45	33.12	5.63	-40.10	44.10	74.00	29.90	PK	Horizontal
5	7419.200	43.03	36.66	6.66	-41.75	44.60	74.00	29.40	PK	Horizontal
6	10902.500	42.24	39.30	8.08	-39.05	50.57	74.00	23.43	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2444MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

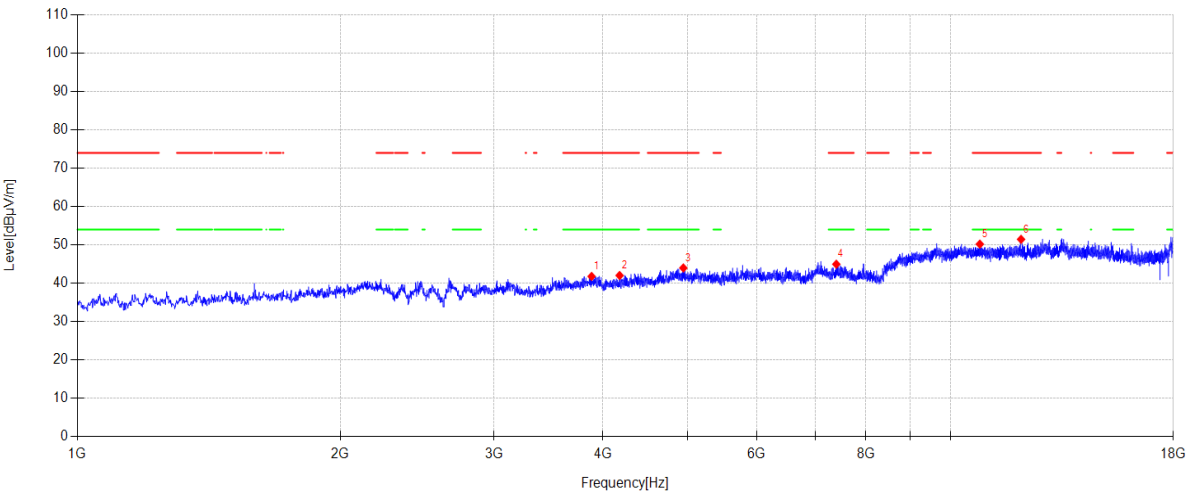
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3881.500	46.02	31.09	5.07	-40.38	41.80	74.00	32.20	PK	Vertical
2	4179.000	46.05	31.20	5.16	-40.38	42.03	74.00	31.97	PK	Vertical
3	4944.000	45.38	33.09	5.62	-40.10	43.99	74.00	30.01	PK	Vertical
4	7400.500	43.33	36.70	6.65	-41.70	44.98	74.00	29.02	PK	Vertical
5	10805.600	41.81	39.39	8.03	-39.02	50.21	74.00	23.79	PK	Vertical
6	12046.600	43.01	39.25	8.78	-39.58	51.46	74.00	22.54	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

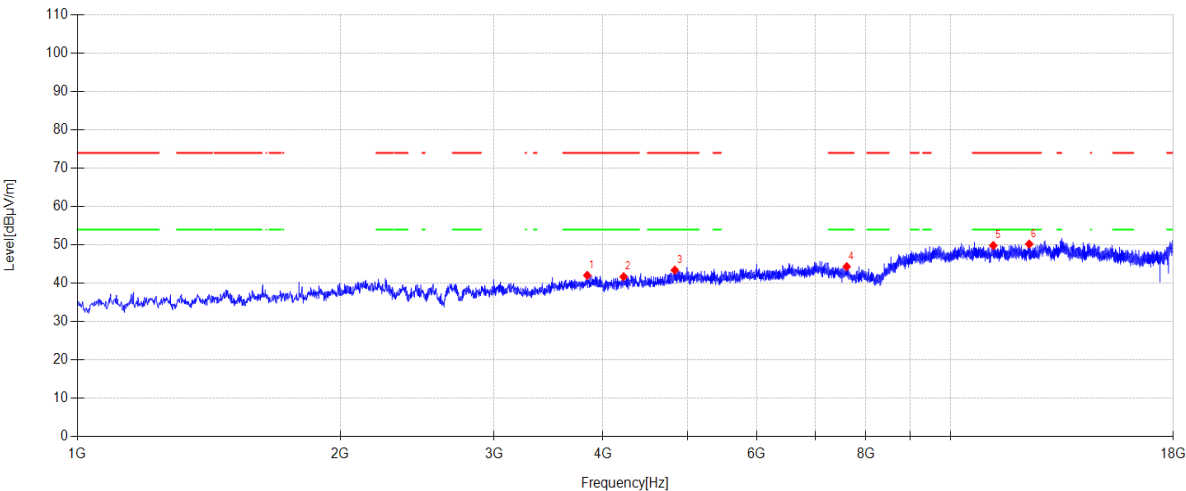
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3837.300	46.48	30.85	5.08	-40.35	42.06	74.00	31.94	PK	Horizontal
2	4223.200	45.61	31.29	5.18	-40.37	41.71	74.00	32.29	PK	Horizontal
3	4833.500	44.65	33.37	5.55	-40.14	43.43	74.00	30.57	PK	Horizontal
4	7606.200	43.28	36.51	6.76	-42.22	44.33	74.00	29.67	PK	Horizontal
5	11194.900	41.56	39.21	8.25	-39.18	49.84	74.00	24.16	PK	Horizontal
6	12308.400	41.67	39.30	8.92	-39.68	50.21	74.00	23.79	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

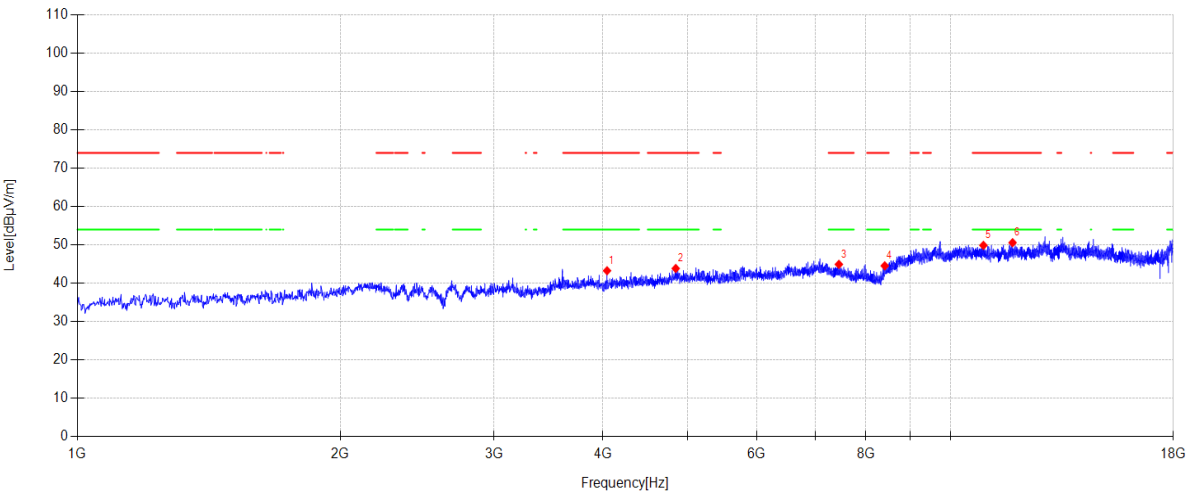
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4043.000	47.64	30.99	5.08	-40.43	43.28	74.00	30.72	PK	Vertical
2	4845.400	44.76	33.68	5.56	-40.14	43.86	74.00	30.14	PK	Vertical
3	7451.500	43.48	36.60	6.68	-41.83	44.93	74.00	29.07	PK	Vertical
4	8408.600	41.35	37.50	7.10	-41.40	44.55	74.00	29.45	PK	Vertical
5	10909.300	41.56	39.30	8.08	-39.06	49.88	74.00	24.12	PK	Vertical
6	11779.700	42.50	38.92	8.62	-39.46	50.58	74.00	23.42	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

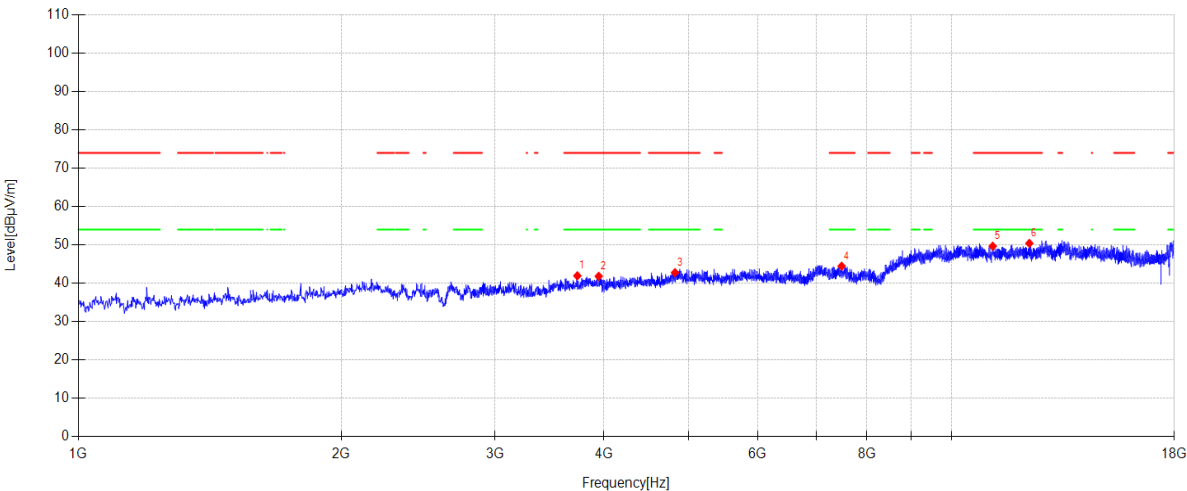
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3728.500	46.67	30.46	5.10	-40.28	41.95	74.00	32.05	PK	Horizontal
2	3944.400	46.08	31.11	5.06	-40.42	41.83	74.00	32.17	PK	Horizontal
3	4823.300	44.28	33.11	5.54	-40.15	42.78	74.00	31.22	PK	Horizontal
4	7485.500	43.14	36.53	6.70	-41.91	44.46	74.00	29.54	PK	Horizontal
5	11150.700	41.36	39.25	8.22	-39.16	49.67	74.00	24.33	PK	Horizontal
6	12281.200	41.88	39.30	8.90	-39.67	50.41	74.00	23.59	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

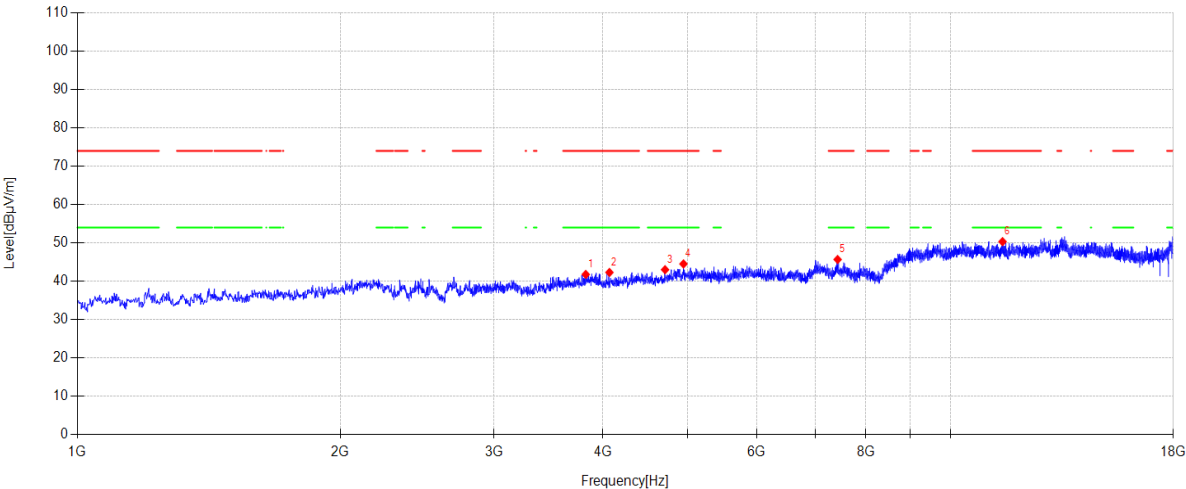
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3822.000	46.26	30.79	5.08	-40.34	41.79	74.00	32.21	PK	Vertical
2	4068.500	46.60	31.04	5.09	-40.42	42.31	74.00	31.69	PK	Vertical
3	4711.100	45.51	32.22	5.48	-40.19	43.02	74.00	30.98	PK	Vertical
4	4945.700	45.92	33.09	5.62	-40.10	44.53	74.00	29.47	PK	Vertical
5	7426.000	44.13	36.65	6.67	-41.77	45.68	74.00	28.32	PK	Vertical
6	11472.000	41.98	39.23	8.43	-39.31	50.33	74.00	23.67	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

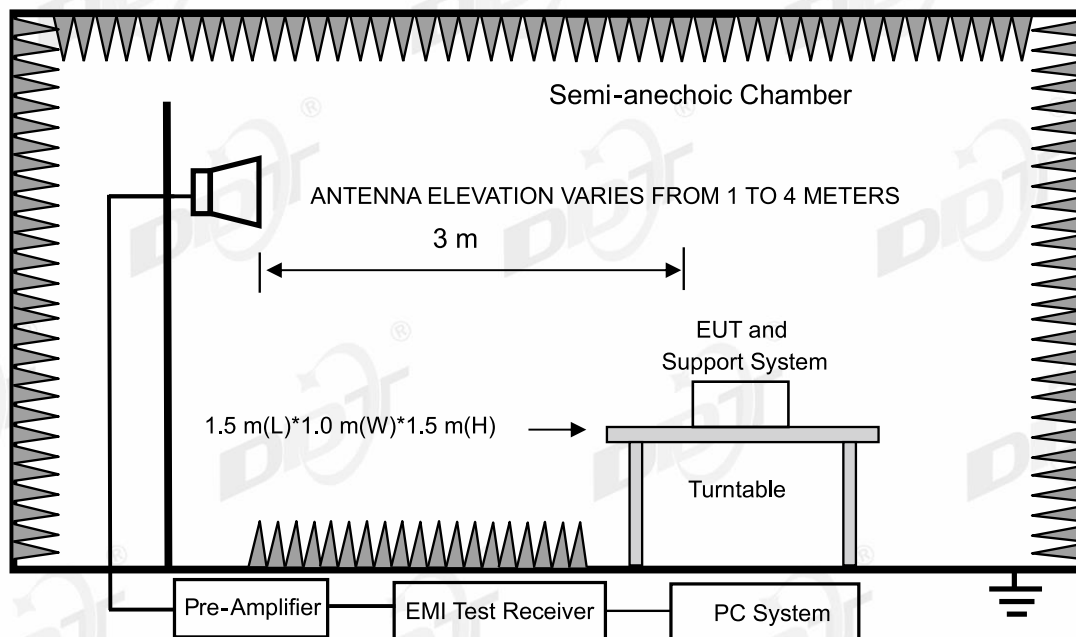
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12.Band Edge Compliance

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
RF cable	Yuhu Technology	JCTB810-NJ-NJ- 9M	DDT-ZC02538	2025/03/31
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Hochgewinn- Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ- 1.5M	DDT-ZC02762	2025/03/31
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
RF cable	Yuhu Technology	ZT26S-SMAJ- SMAJ-1M	DDT-ZC02037	2025/03/31
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22

12.2. Block diagram of test setup



12.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	DELL	038C0A5A-F922-40B9-A219-8D44E9D18F8D	Fixed frequency computer	N/A

12.5. Test procedure

Same with Radiated Emission except change investigated frequency range.

Remark: All restriction band have been tested, and only the worst case is shown in report.

12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

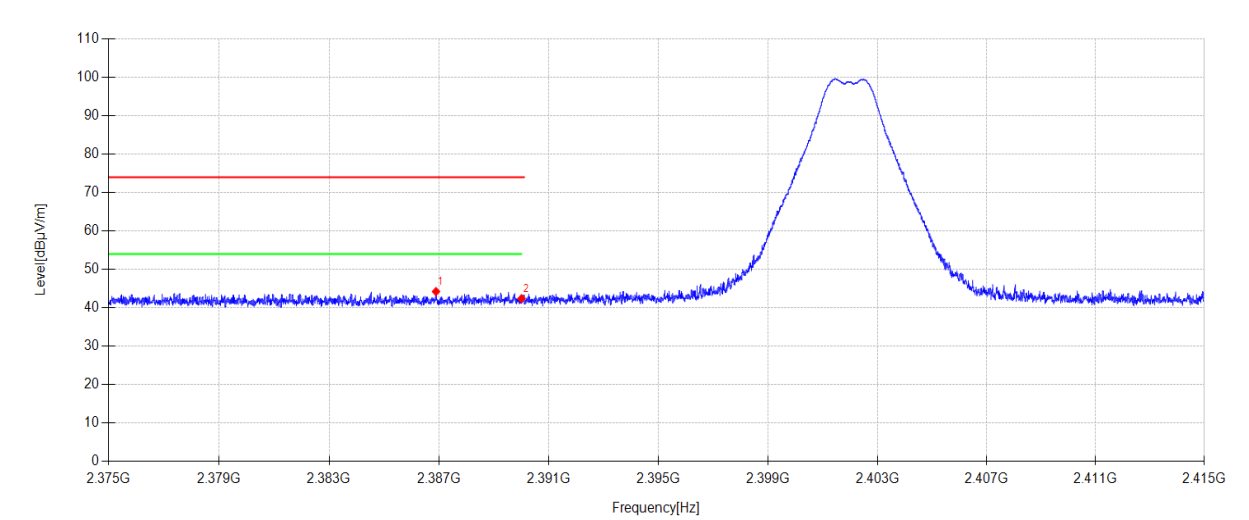
File Path:

d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\221

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.888	13.42	27.25	3.57	0.00	44.24	74.00	29.76	PK	Horizontal
2	2390.000	11.57	27.26	3.57	0.00	42.40	74.00	31.60	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

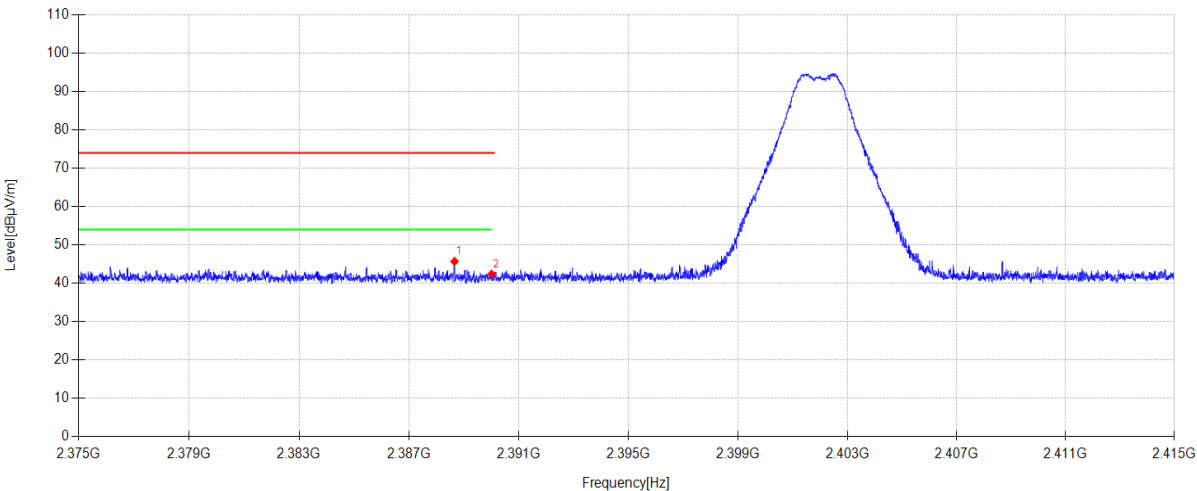
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.652	14.88	27.25	3.57	0.00	45.70	74.00	28.30	PK	Vertical
2	2390.000	11.53	27.26	3.57	0.00	42.36	74.00	31.64	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

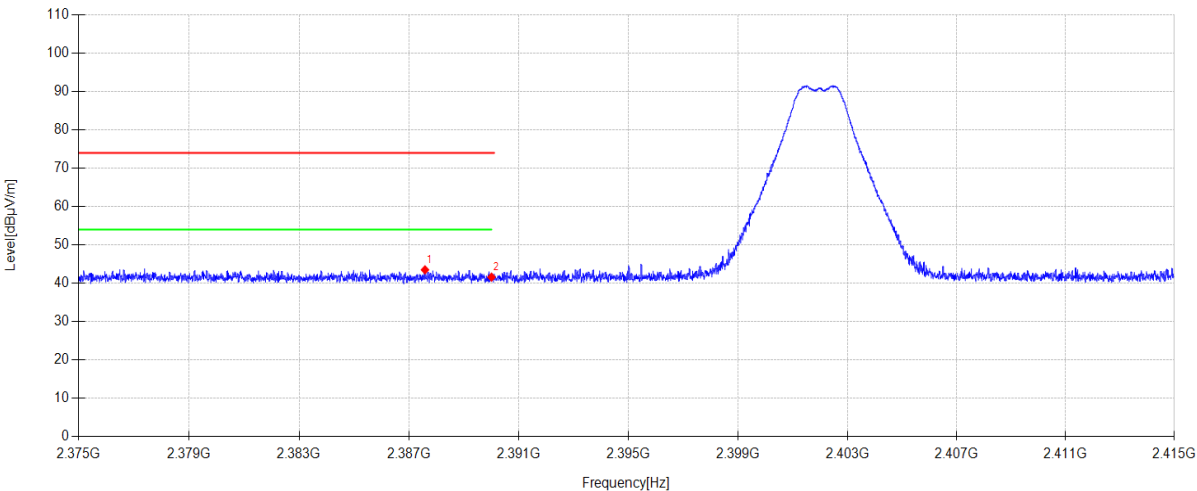
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Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.580	12.69	27.25	3.57	0.00	43.51	74.00	30.49	PK	Horizontal
2	2390.000	10.78	27.26	3.57	0.00	41.61	74.00	32.39	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2402MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

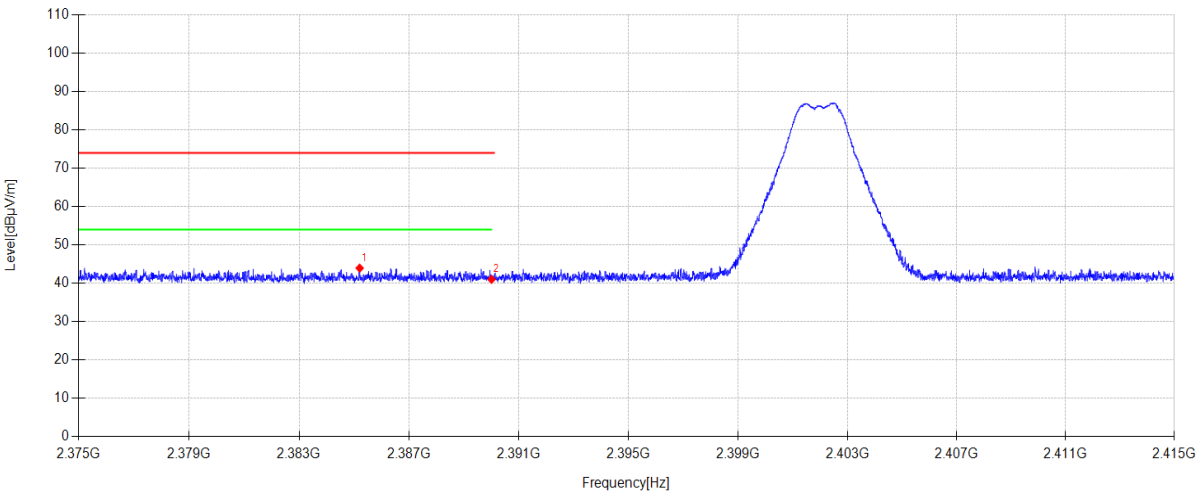
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d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\224

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.204	13.14	27.24	3.57	0.00	43.95	74.00	30.05	PK	Vertical
2	2390.000	10.19	27.26	3.57	0.00	41.02	74.00	32.98	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

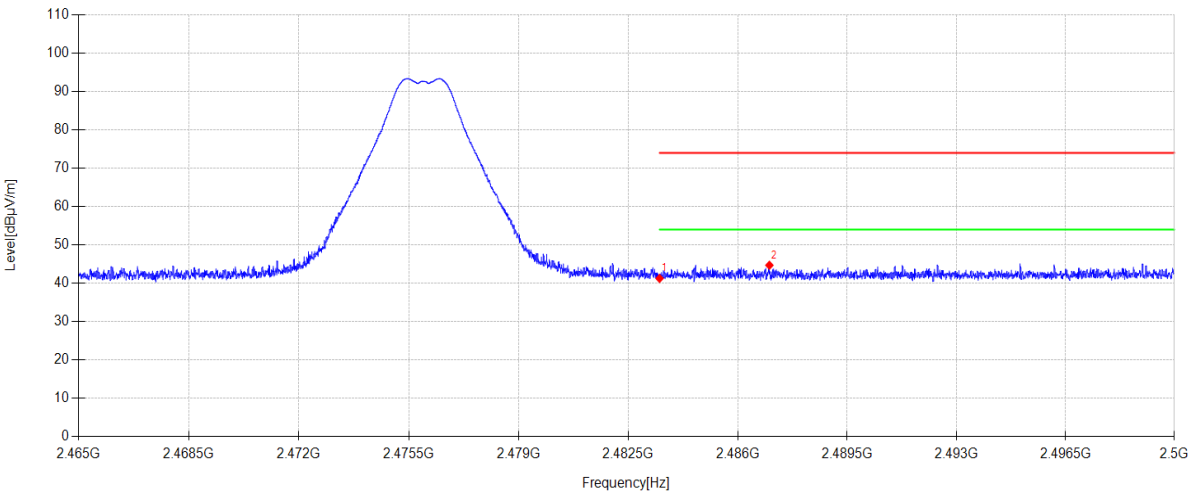
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d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\219

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.12	27.53	3.62	0.00	41.27	74.00	32.73	PK	Horizontal
2	2487.012	13.53	27.55	3.62	0.00	44.70	74.00	29.30	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT1 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

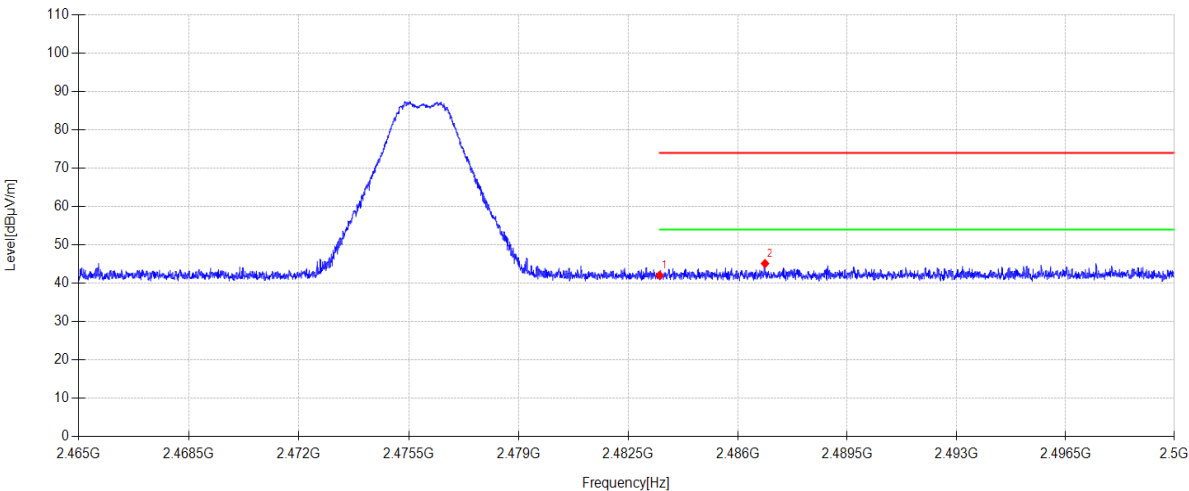
File Path:

d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\220

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.92	27.53	3.62	0.00	42.07	74.00	31.93	PK	Vertical
2	2486.872	13.99	27.55	3.62	0.00	45.16	74.00	28.84	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

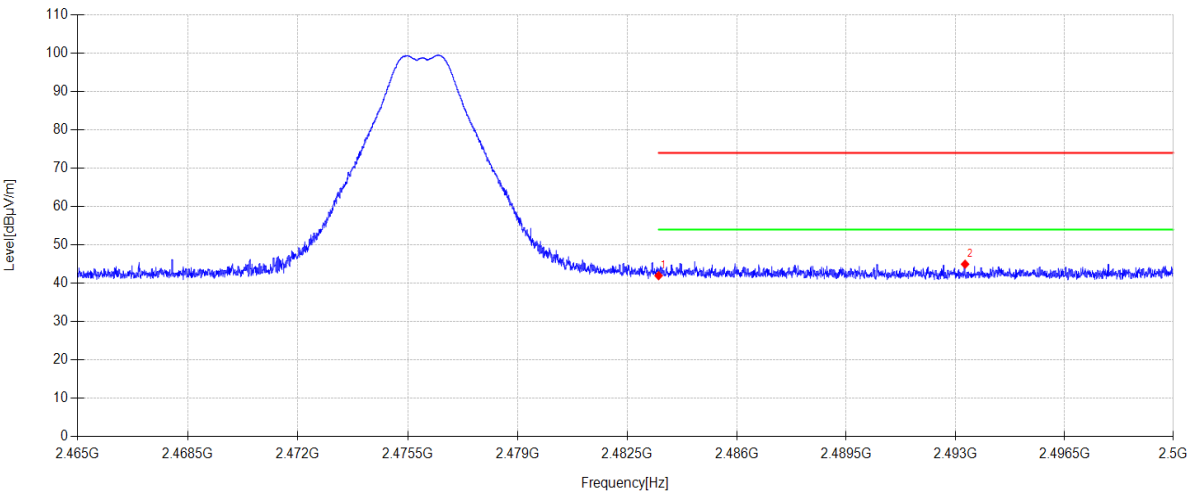
File Path:

d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\217

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.84	27.53	3.62	0.00	41.99	74.00	32.01	PK	Horizontal
2	2493.312	13.78	27.57	3.63	0.00	44.98	74.00	29.02	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-06

Tested By:

Genliu

EUT:

Dongle

Model Number:

CMHS-D

Test Mode:

SRD ANT2 2476MHz TX

Power Supply:

Battery

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

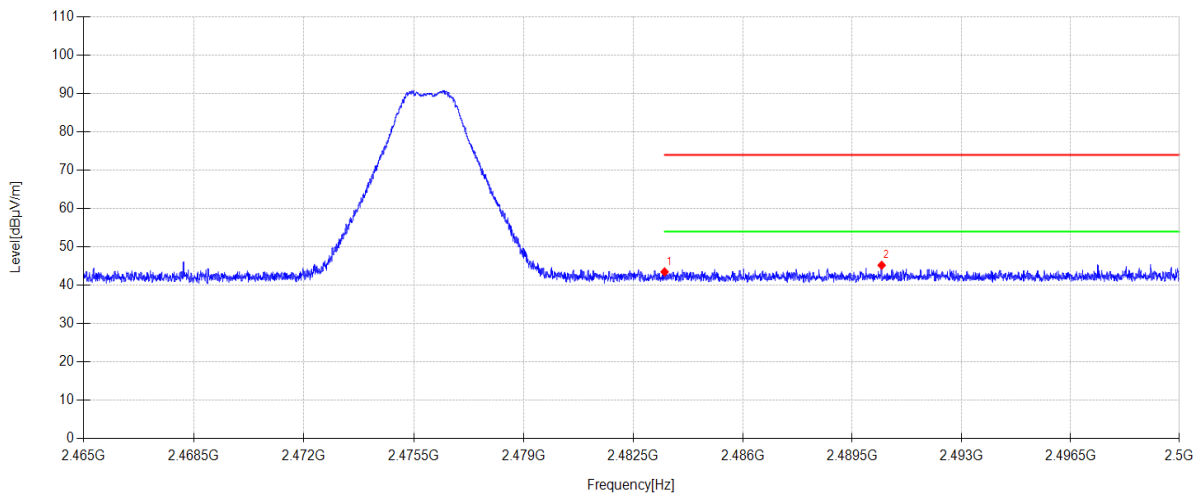
File Path:

d:\ts\2024 report data\Q24050708-2E\FCC ABOVE1G-BT\218

Memo:

Sample Number: S24050708-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	12.34	27.53	3.62	0.00	43.49	74.00	30.51	PK	Vertical
2	2490.445	14.04	27.56	3.62	0.00	45.22	74.00	28.78	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

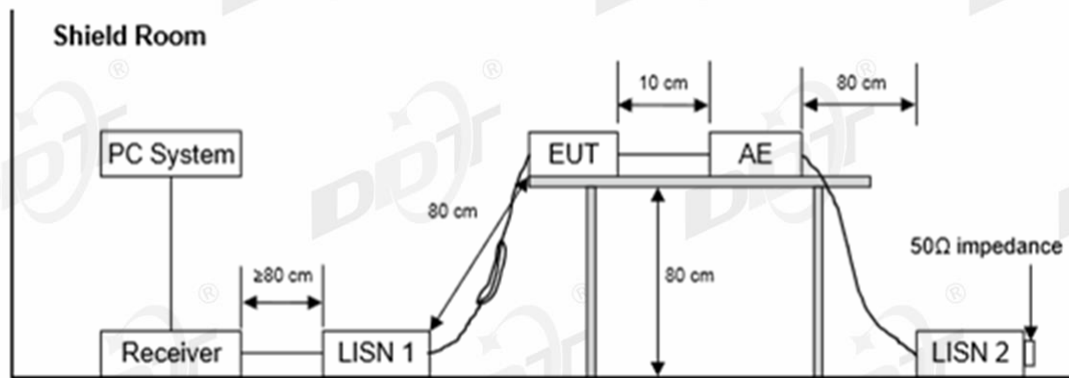
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Power Line Conducted Emissions

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2025/07/08
EMI Test Receiver	R&S	ESCI	DDT-ZC00235	2025/07/08
Pulse Limiter	SCHWARZBEC K	ESH3-Z2	DDT-ZC00539	2025/07/08
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2025/07/08
EMI Test Software	Audix/TW	e3	DDT-ZC01252	/
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2025/07/08

13.2. Block diagram of test setup



13.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	HUAWEI	HW-100400C01	Huawei Fast Charge 2 #	Input: 100-240V~ 50/60Hz, Output: 5V/2A or 9V/2A or 10V/4A MAX

13.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

13.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “---” means Peak detection; “---” means Average detection.

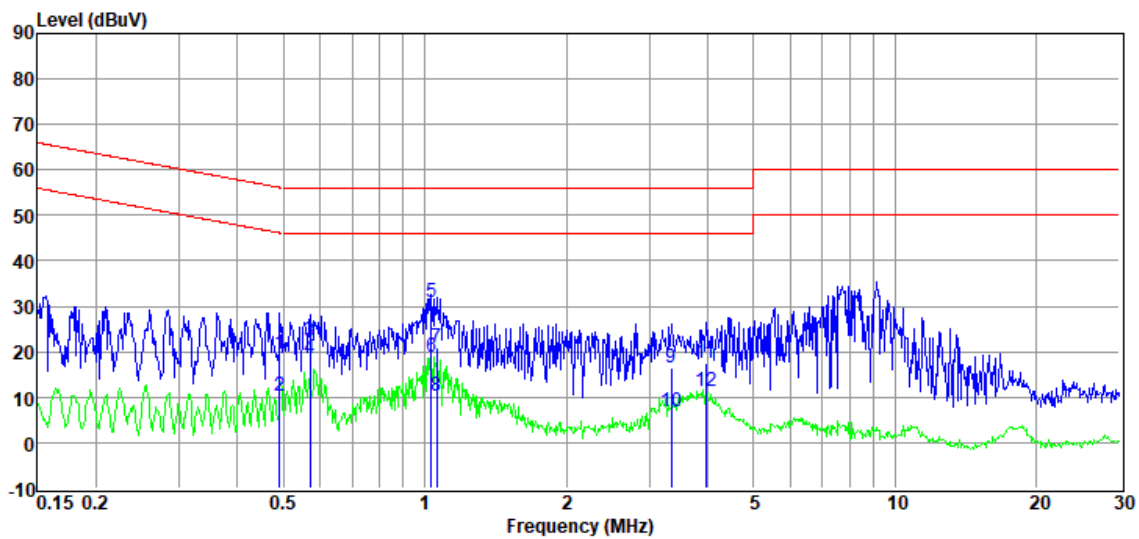
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

13.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2024 CE report data\Q24050708-2E\FCC-CE.EM6**
Test Date : 2024-08-07 **Tested By** : Gen Liu
EUT : Dongle **Model Number** : CMHS-D
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:22.1°C,Humi:66.0% **LISN** : 2023 1# ENV216/LINE
Memo : Sample Number: S24050708-008

Data: 2



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.49	-0.79	9.81	0.86	9.71	19.59	56.14	-36.55	QP	LINE
2	0.49	-9.94	9.81	0.86	9.71	10.44	46.14	-35.70	Average	LINE
3	0.57	1.88	9.80	0.83	9.72	22.23	56.00	-33.77	QP	LINE
4	0.57	-1.94	9.80	0.83	9.72	18.41	46.00	-27.59	Average	LINE
5	1.03	10.90	9.64	0.67	9.73	30.94	56.00	-25.06	QP	LINE
6	1.03	-1.06	9.64	0.67	9.73	18.98	46.00	-27.02	Average	LINE
7	1.06	0.76	9.65	0.67	9.73	20.81	56.00	-35.19	QP	LINE
8	1.06	-9.90	9.65	0.67	9.73	10.15	46.00	-35.85	Average	LINE
9	3.35	-3.55	9.64	0.58	9.78	16.45	56.00	-39.55	QP	LINE
10	3.35	-13.16	9.64	0.58	9.78	6.84	46.00	-39.16	Average	LINE
11	3.96	-2.35	9.65	0.56	9.78	17.64	56.00	-38.36	QP	LINE
12	3.96	-8.82	9.65	0.56	9.78	11.17	46.00	-34.83	Average	LINE

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 1# Shield Room

Test Date

: 2024-08-07

EUT

: Dongle

Power Supply

: AC 120V/60Hz

Condition

: Temp:22.1°C,Humi:66.0%

Memo

: Sample Number: S24050708-008

D:\2024 CE report data\Q24050708-2E\FCC-CE.EM6

Tested By

: Gen Liu

Model Number

: CMHS-D

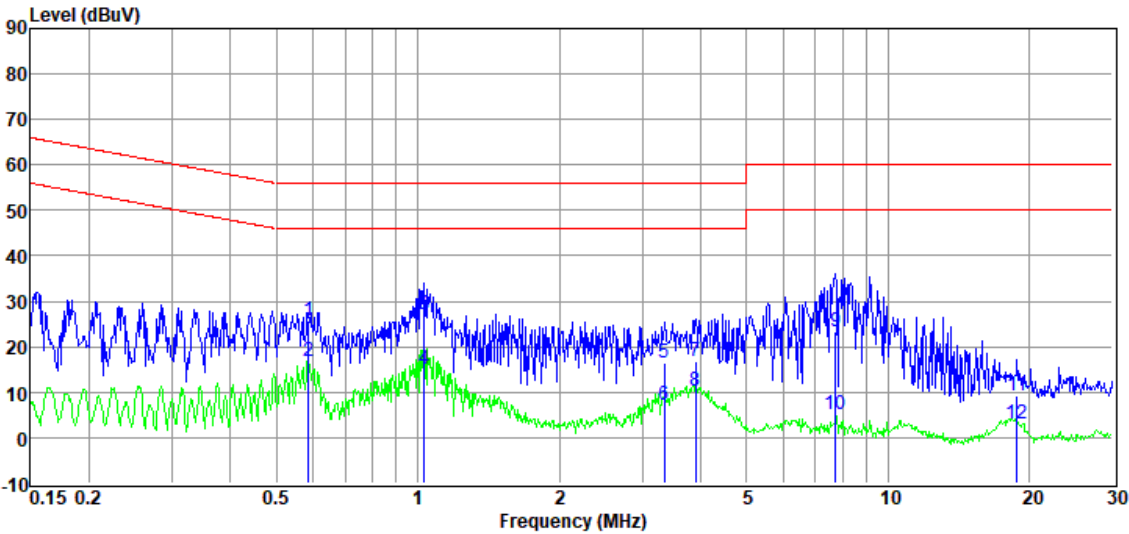
Test Mode

: Tx mode

LISN

: 2023 1# ENV216/NEUTRAL

Data: 4



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.59	5.22	9.82	0.83	9.72	25.59	56.00	-30.41	QP	NEUTRAL
2	0.59	-3.45	9.82	0.83	9.72	16.92	46.00	-29.08	Average	NEUTRAL
3	1.03	6.91	9.76	0.67	9.73	27.07	56.00	-28.93	QP	NEUTRAL
4	1.03	-5.05	9.76	0.67	9.73	15.11	46.00	-30.89	Average	NEUTRAL
5	3.35	-3.58	9.73	0.58	9.78	16.51	56.00	-39.49	QP	NEUTRAL
6	3.35	-12.87	9.73	0.58	9.78	7.22	46.00	-38.78	Average	NEUTRAL
7	3.90	-3.30	9.75	0.56	9.78	16.79	56.00	-39.21	QP	NEUTRAL
8	3.90	-9.66	9.75	0.56	9.78	10.43	46.00	-35.57	Average	NEUTRAL
9	7.73	3.42	9.81	0.41	9.81	23.45	60.00	-36.55	QP	NEUTRAL
10	7.73	-14.87	9.81	0.41	9.81	5.16	50.00	-44.84	Average	NEUTRAL
11	18.82	-10.92	9.86	0.30	9.91	9.15	60.00	-50.85	QP	NEUTRAL
12	18.82	-17.03	9.86	0.30	9.91	3.04	50.00	-46.96	Average	NEUTRAL

Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

15. Photos of the EUT

Please refer to DDT-Q24050708-1E appendix II.

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