



RADIO TEST REPORT

Applicant	:	Edifier International Limited
Address of Applicant	:	P.O. Box 6264 General Post Office, Hong Kong
Manufacturer	:	Beijing Edifier Technology Co., Ltd.
Address of Manufacturer	:	815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China
PMN/Equipment under Test	:	Active Speaker
Model No.	:	EDF100121
HVIN	:	EDF100121
FCC ID	:	Z9G-EDF292
IC	:	10004A-EDF292
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021), ANSI C63.10-2020+Cor.1-2023+C63.10a2024+ Errata to C63.10a-2024
Report No.	:	DDT-RE25111003-2E03
Issue Date	:	2026/01/23
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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Test Standard Used:

47 CFR Part 15 Subpart E,
ANSI C63.10-2020,
RSS-247 Issue 4 July 24, 2025,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021),
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024,

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-RE25111003-2E03		
Date of Receipt:	2025/11/24	Date of Test:	2025/11/24 - 2025/12/13

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Ella Gong
		
2025/12/15	2026/01/23	2026/01/23

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	2026/01/23	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	47 CFR Part 15 15.407 (e), RSS-247 Clause 7.3.4.2, RSS-Gen Clause 6.7	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g), RSS-Gen Clause 8.11	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.9	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.10	/	Pass
7	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	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	: Active Speaker
Model Number	: EDF100121
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V, 50/60Hz 600mA
Antenna Type	: PCB antenna
Max Antenna Gain (dBi)	: 1.57
Radio Technology	: 5.8G SRD
Modulation	: FSK
Channel number	: 59
Operating Frequency channel	: 5729MHz-5845MHz

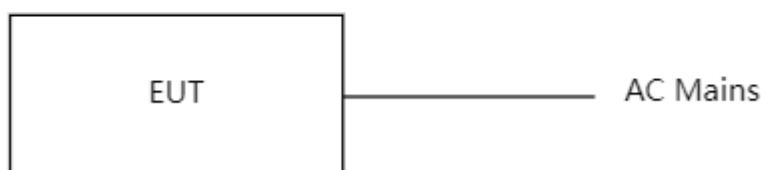
Channel information							
0	5729	1	5731	2	5733	3	5735
4	5737	5	5739	6	5741	7	5743
8	5745	9	5747	10	5749	11	5751
12	5753	13	5755	14	5757	15	5759
16	5761	17	5763	18	5765	19	5767
20	5769	21	5771	22	5773	23	5775
24	5777	25	5779	26	5781	27	5783
28	5785	29	5787	30	5789	31	5791
32	5793	33	5795	34	5797	35	5799
36	5801	37	5803	38	5805	39	5807
40	5809	41	5811	42	5813	43	5815
44	5817	45	5819	46	5821	47	5823
48	5825	49	5827	50	5829	51	5831
52	5833	53	5835	54	5837	55	5839
56	5841	57	5843	58	5845	/	/

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: Everestek_Subwoofer_EMI_TOOLS_V1.3_Using_RS232_2018_0110.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: 2 dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Channel, and Frequency			
Tested mode	Tx Power Setting	Channel	Frequency (MHz)
5.8G SRD	default	Channel 0	5729
	default	Channel 29	5787
	default	Channel 58	5845

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

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

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

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

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

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

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

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

Conformity Assessment Body identifier: CN0048

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

2.8. Measurement uncertainty

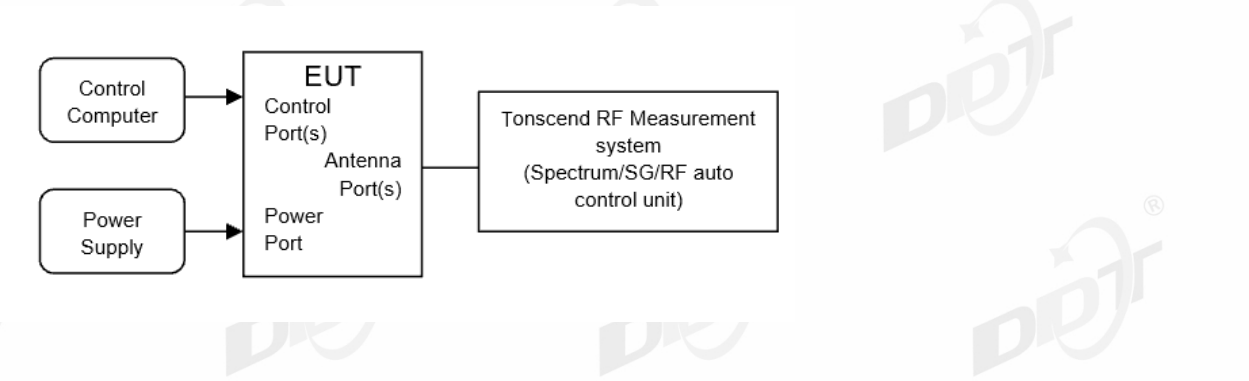
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f 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

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☒ RF Connected Test (RF Measurement System 1#)					
SIGNAL ANALYZER	R&S	FSQ26	101272	2026/03/28	1 Year
Wideband Radio Communication Tester	R&S	CMW500	120259	2026/03/28	1 Year
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2026/03/28	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2026/03/28	1 Year
RF Control Unit	Tonscend	JS0806-2	158060010	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. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

4.3. Test procedure

Connect EUT’s antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

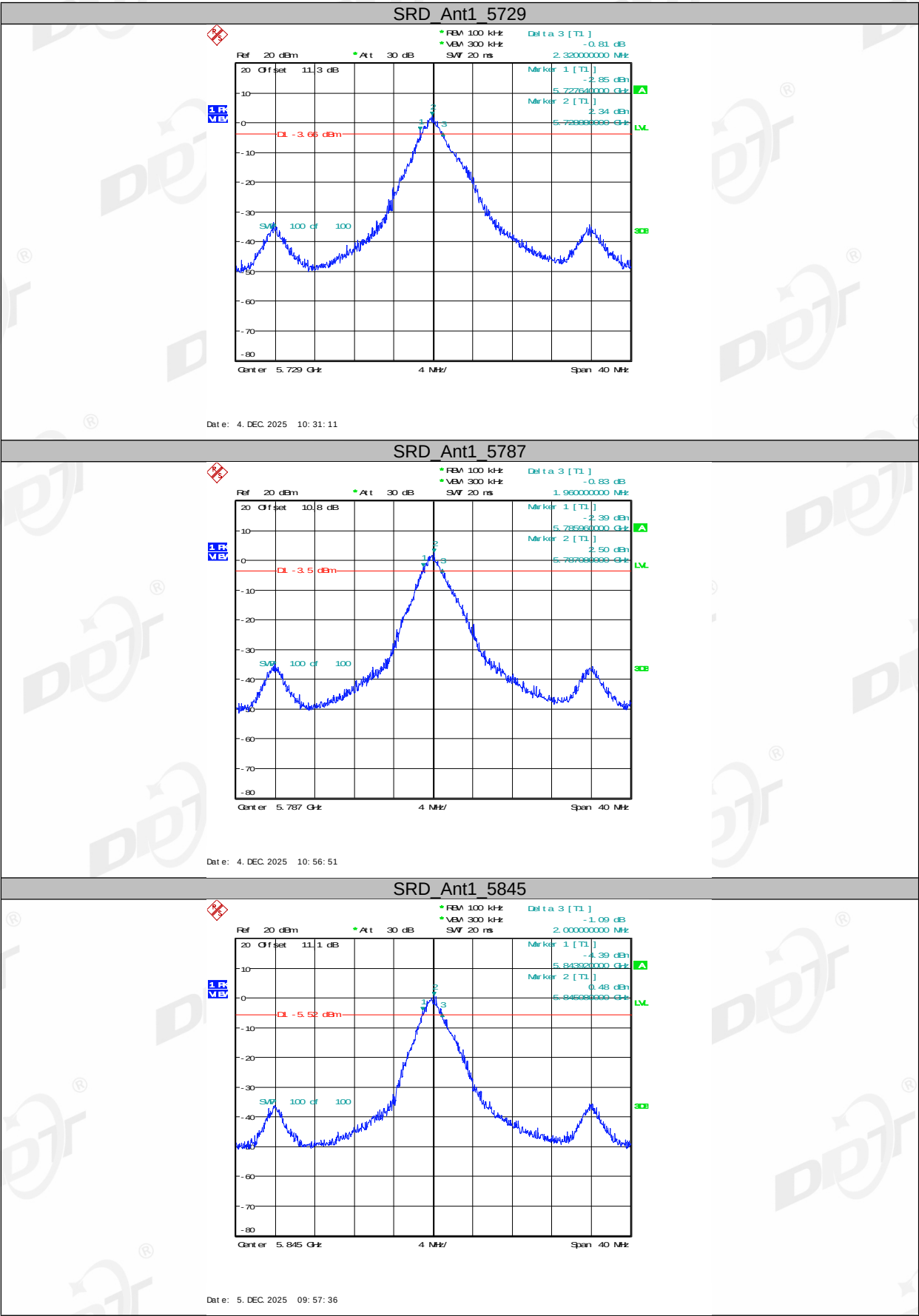
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result B4

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	27.0℃, 33.3%RH	Test Date:	2025.12.05-2025.12.05
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25111416-005

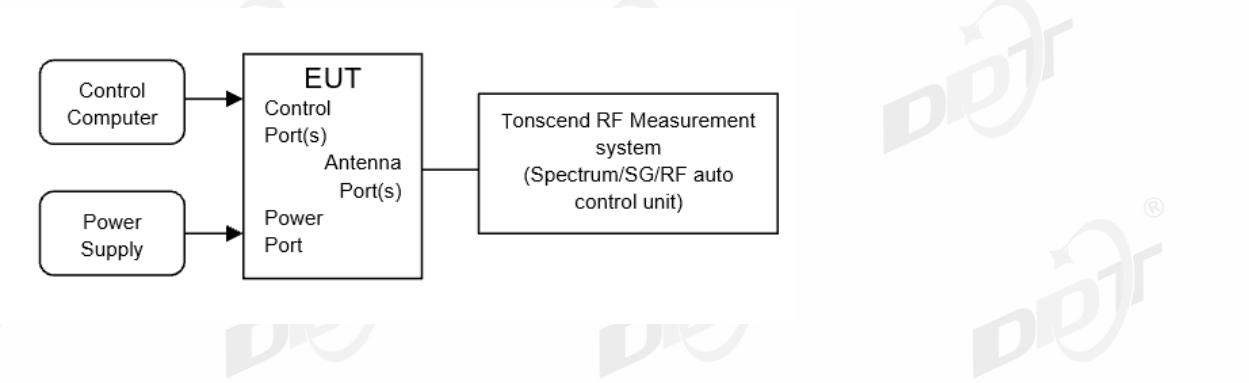
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	5729	2.32	5727.64	5729.96	0.5	PASS
		5787	1.96	5785.96	5787.92	0.5	PASS
		5845	2.00	5843.92	5845.92	0.5	PASS

4.5. Test graphs B4



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

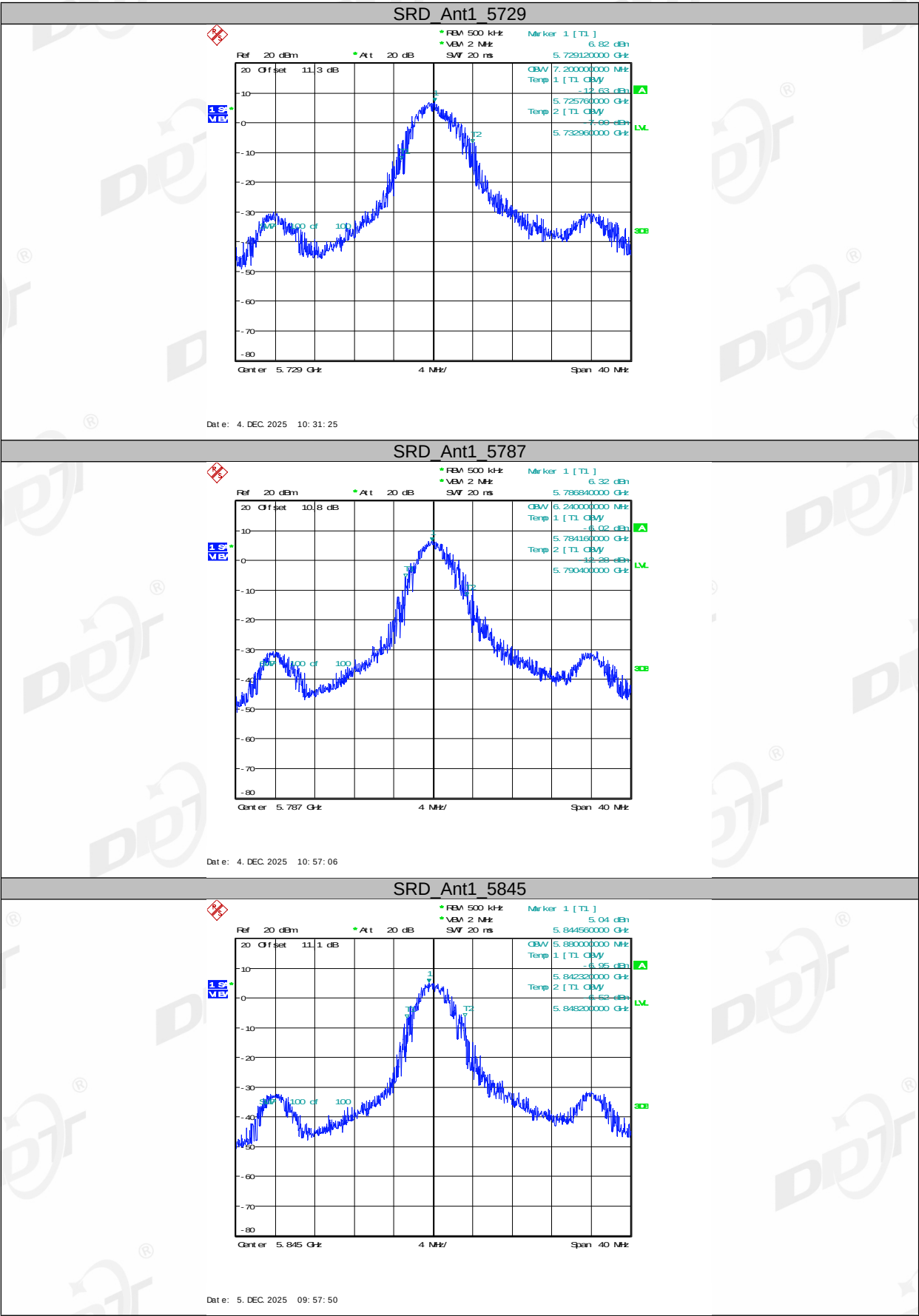
- (2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

5.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	27.0℃, 33.3%RH	Test Date:	2025.12.05-2025.12.05
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25111416-005

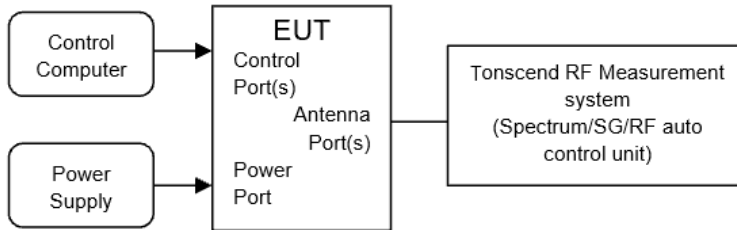
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	5729	7.2000	5725.7600	5732.9600	---	---
		5787	6.2400	5784.1600	5790.4000	---	---
		5845	5.8800	5842.3200	5848.2000	---	---

5.5. Test graphs



6. Maximum Output Power

6.1. Block diagram of test setup



6.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (23.98 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23.01 dBm) or $10 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	For FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	1 Watt (30 dBm)	5725-5850
Note 1: For FCC: B=26 bandwidth; For ISDE: B=99% bandwidth. Note 2: If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and operating in 5725-5850 band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.		

6.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator
Measure the output power of each antenna port by power sensor.

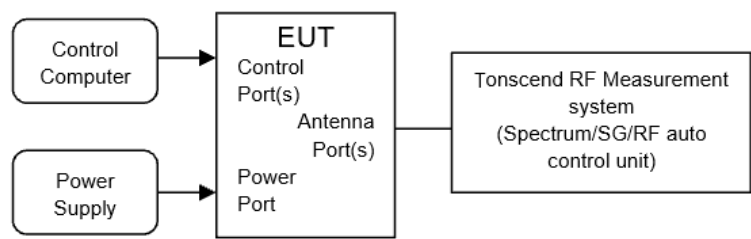
6.4. Test result channel power

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	27.0℃, 33.3%RH	Test Date:	2025.12.05-2025.12.05
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25111416-005

Test Mode	Ant.	Frequency [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Verdict
SRD	Ant1	5729	99.68	0.00	1.23	≤30.00	≤30.00	2.80	PASS
		5787	100.00	0.00	0.78	≤30.00	≤30.00	2.35	PASS
		5845	98.44	0.07	-0.18	≤30.00	≤30.00	1.39	PASS

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISDE: 5470 - 5600 5650 - 5725
	30 dBm/500 kHz	5725-5850
Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum Power Spectral Density.		

7.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

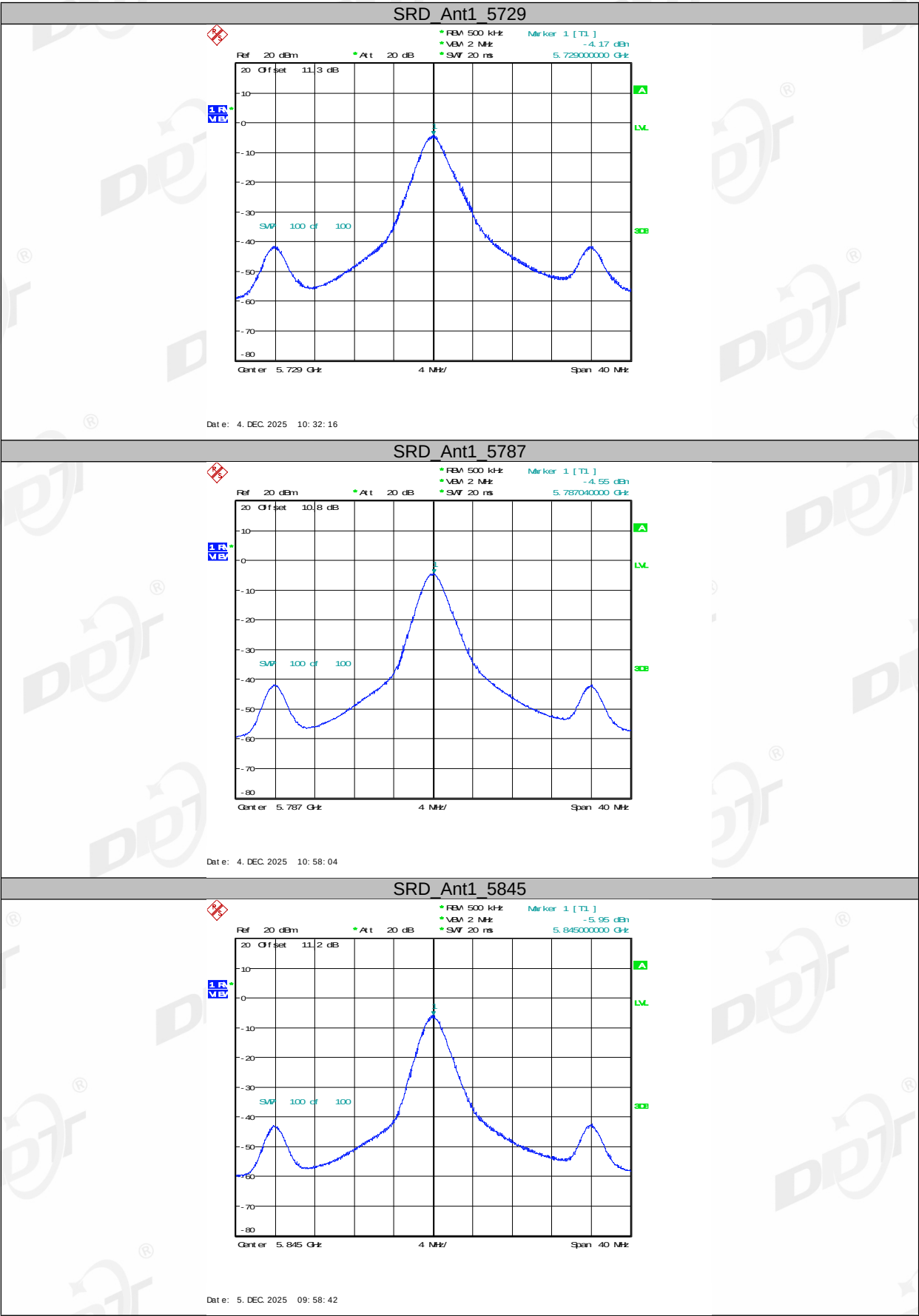
7.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#		
Ambient Condition:	27.0℃, 33.3%RH	Test Date:	2025.12.05-2025.12.05		
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25111416-005		

Test Mode	Antenna	Frequency [MHz]	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
SRD	Ant1	5729	-4.17	≤30.00	PASS
		5787	-4.55	≤30.00	PASS
		5845	-5.95	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

7.5. Test graphs



8. Frequency Stability Measurement

8.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

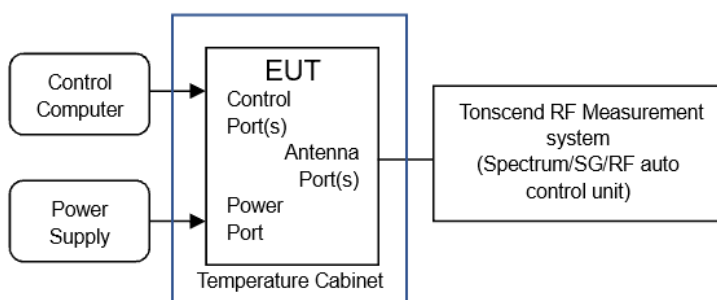
8.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

8.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

8.4. Test setup



8.5. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	27.0℃, 33.3%RH	Test Date:	2025.12.05-2025.12.05
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25111416-005

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
SRD	Ant1	5729	NV	NT	20000.00	3.491011	20	PASS
			LV	NT	-60000.00	-10.473032	20	PASS
			HV	NT	-20000.00	-3.491011	20	PASS
		5787	NV	NT	20000.00	3.456022	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.456022	20	PASS
		5845	NV	NT	-40000.00	-6.843456	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.421728	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
SRD	ANT1	5729	NV	0	20000.00	3.491011	20	PASS
			NV	10	-20000.00	-3.491011	20	PASS
			NV	20	20000.00	3.491011	20	PASS
			NV	30	-40000.00	-6.912044	20	PASS
		5787	NV	0	-20000.00	-3.456022	20	PASS
			NV	10	-40000.00	-6.912044	20	PASS
			NV	20	-40000.00	-6.912044	20	PASS
			NV	30	-40000.00	-6.912044	20	PASS
		5845	NV	0	20000.00	3.421728	20	PASS
			NV	10	-40000.00	-6.843456	20	PASS
			NV	20	60000.00	10.265184	20	PASS
			NV	30	-40000.00	-6.843456	20	PASS

9. Antenna Requirements

9.1. 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.

9.2. Result

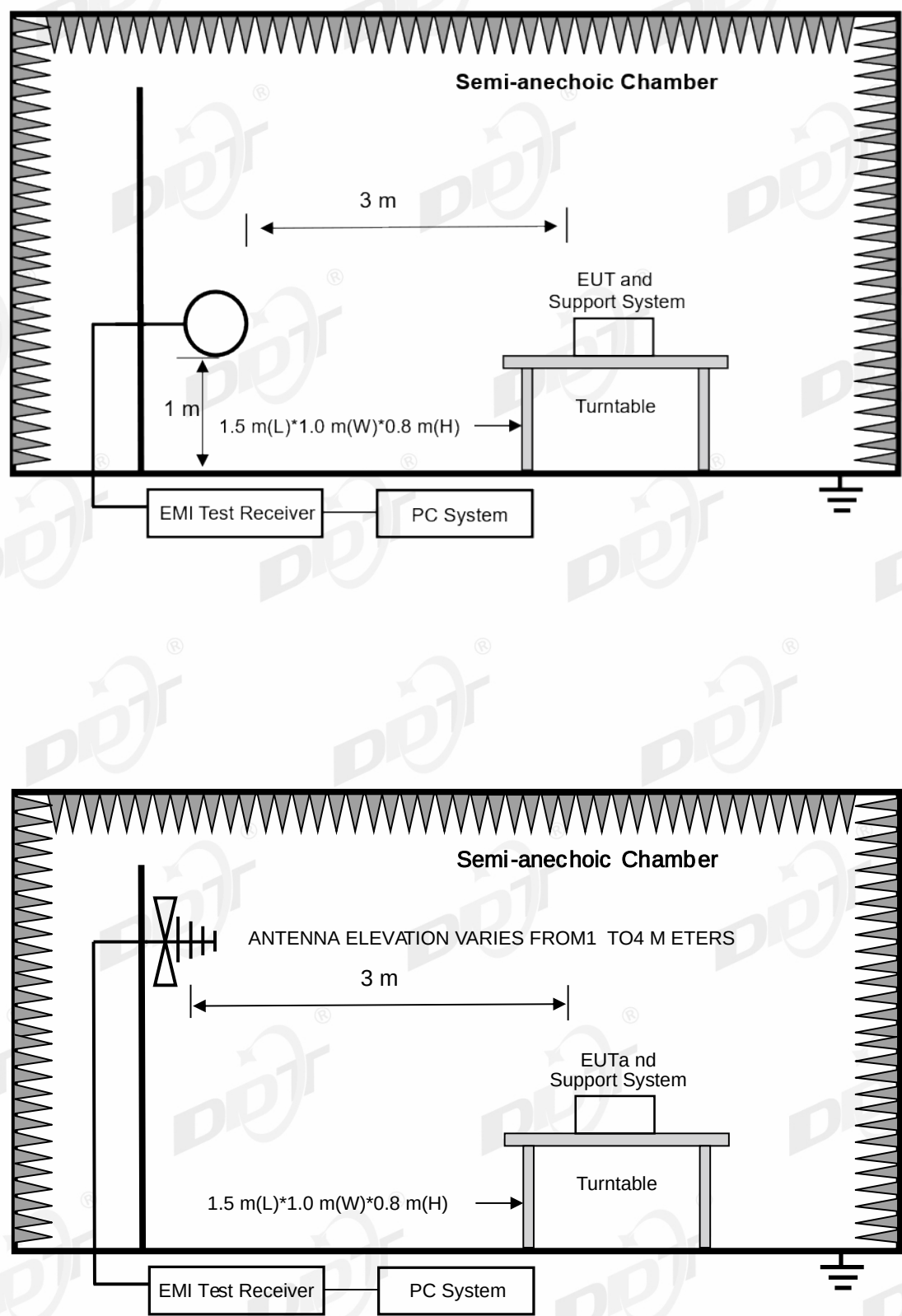
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

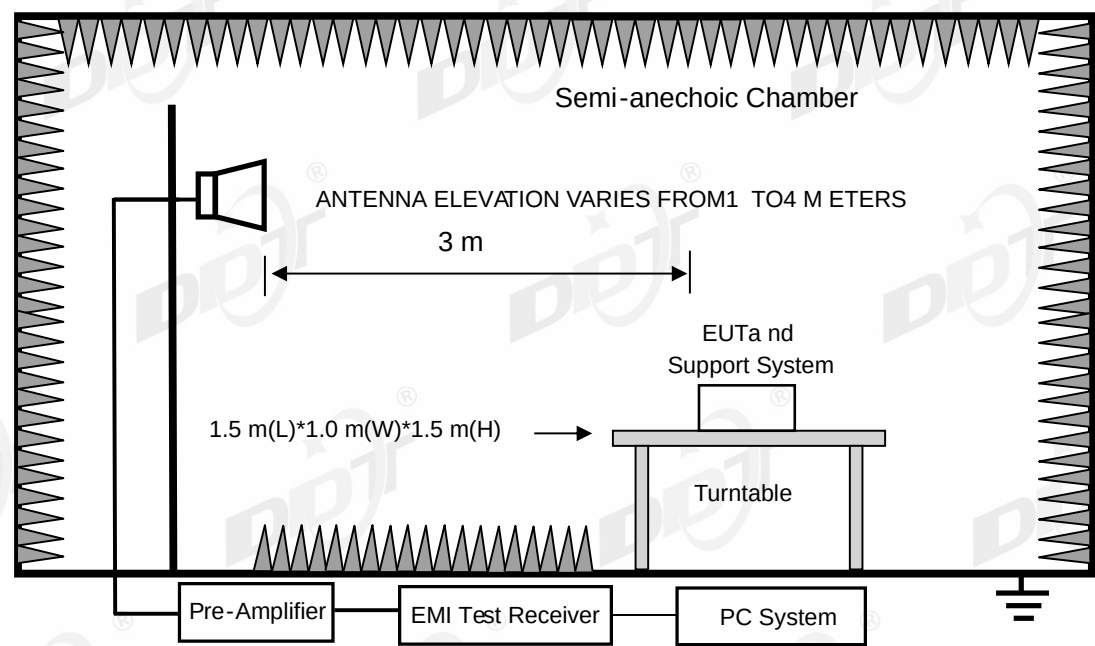
10. Radiated Emission

10.1. 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

10.2. Block diagram of test setup





10.3. 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	
		uV/m	dBuV/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 dBuV/m (Peak) 54.0 dBuV/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.

10.4. Assistant equipment used for test

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

10.5. Test procedure

(1) EUT was placed on a non-metallic table, 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 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 though 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 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 clause 4.1.5.2.2 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 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(10) 30 MHz ~ 40 GHz: (Scan with all mode, the worst case is record and report)

(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 the worst mode.

10.6. Test result

PASS. (See below detailed test result)

10.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-05

Tested By:

Li Xiongbin

Test Mode:

TX 5.8GSRD 5729 Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

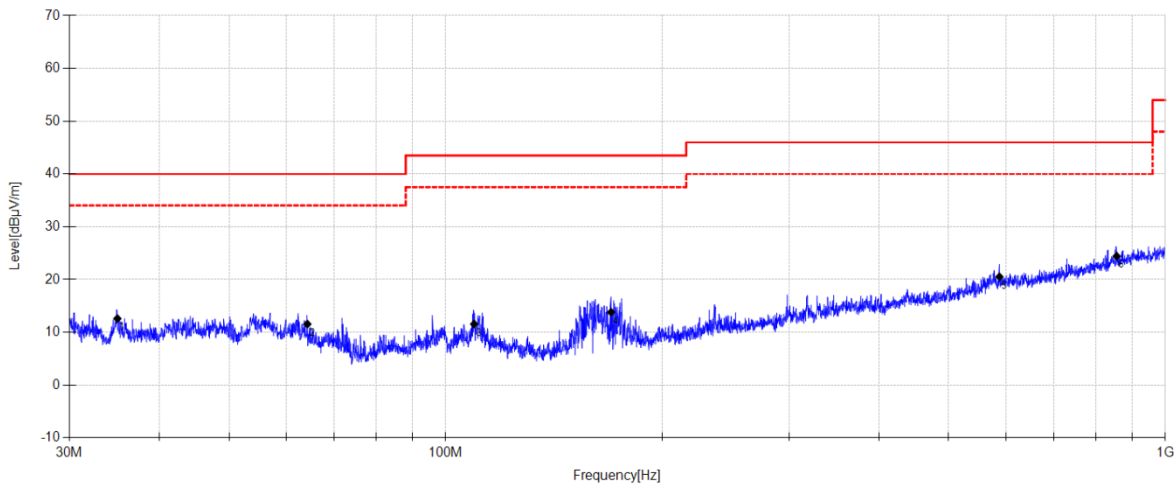
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006



Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	34.979	29.74	11.30	3.85	12.59	40.00	27.41	QP	Horizontal
2	64.243	27.55	12.18	4.11	11.54	40.00	28.46	QP	Horizontal
3	109.537	27.47	12.04	4.36	11.56	43.50	31.94	QP	Horizontal
4	169.778	32.08	9.40	4.70	13.81	43.50	29.69	QP	Horizontal
5	588.142	28.09	18.88	6.36	20.51	46.00	25.49	QP	Horizontal
6	855.850	28	21.55	7.03	24.42	46.00	21.58	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX 5.8GSRD 5729 Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

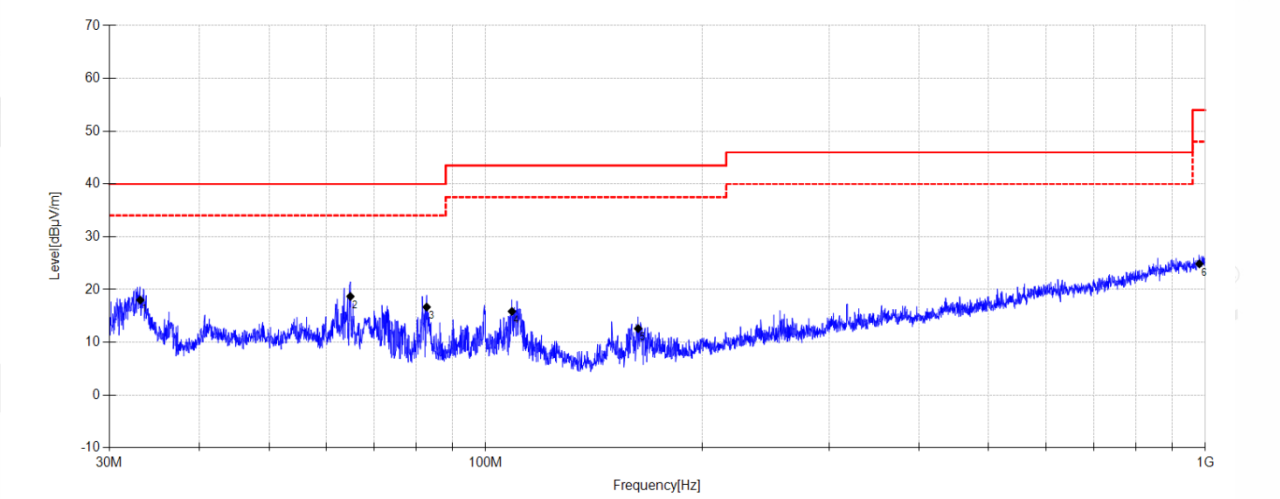
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006



Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	33.118	35.53	10.95	3.82	18.00	40.00	22.00	QP	Vertical
2	64.877	34.76	12.11	4.11	18.68	40.00	21.32	QP	Vertical
3	82.805	35.86	8.90	4.21	16.67	40.00	23.33	QP	Vertical
4	108.771	31.76	12.04	4.35	15.84	43.50	27.66	QP	Vertical
5	162.898	30.97	9.32	4.66	12.59	43.50	30.91	QP	Vertical
6	981.246	26.65	22.30	7.31	24.85	54.00	29.15	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5729MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

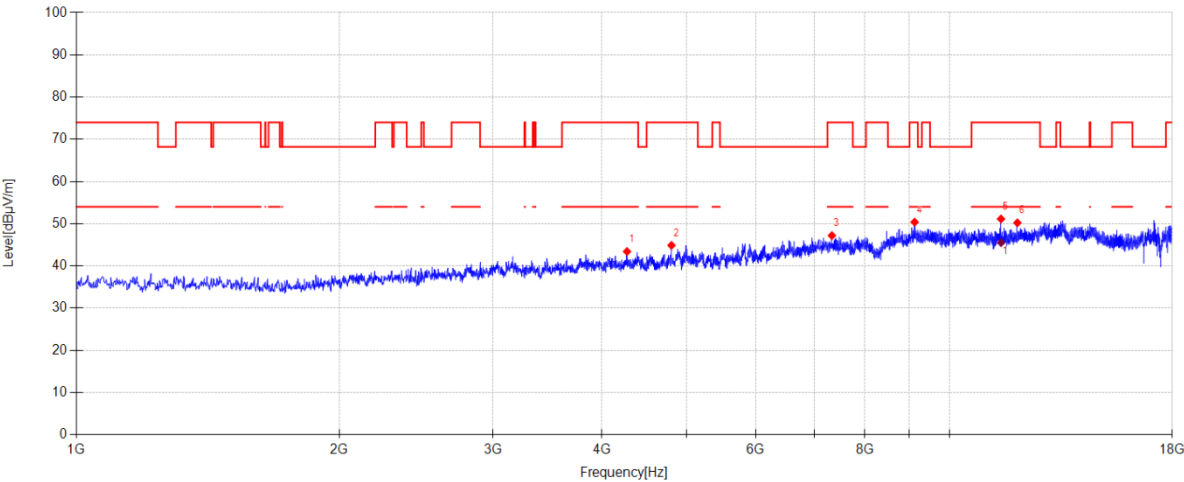
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	4272.500	46.98	31.56	4.60	-39.73	43.41	74.00	30.59	PK	Horizontal
2	4804.600	47.63	32.17	4.86	-39.78	44.88	74.00	29.12	PK	Horizontal
3	7334.200	44.01	37.00	6.06	-39.87	47.20	74.00	26.80	PK	Horizontal
4	9122.600	43.62	38.45	7.05	-38.73	50.39	74.00	23.61	PK	Horizontal
5	11456.700	44.06	39.23	7.44	-39.60	51.13	74.00	22.87	PK	Horizontal
6	11961.600	43.30	38.81	7.70	-39.60	50.21	74.00	23.79	PK	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	11456.700	38.44	39.23	7.44	45.51	54.00	8.49	AV	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5729MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

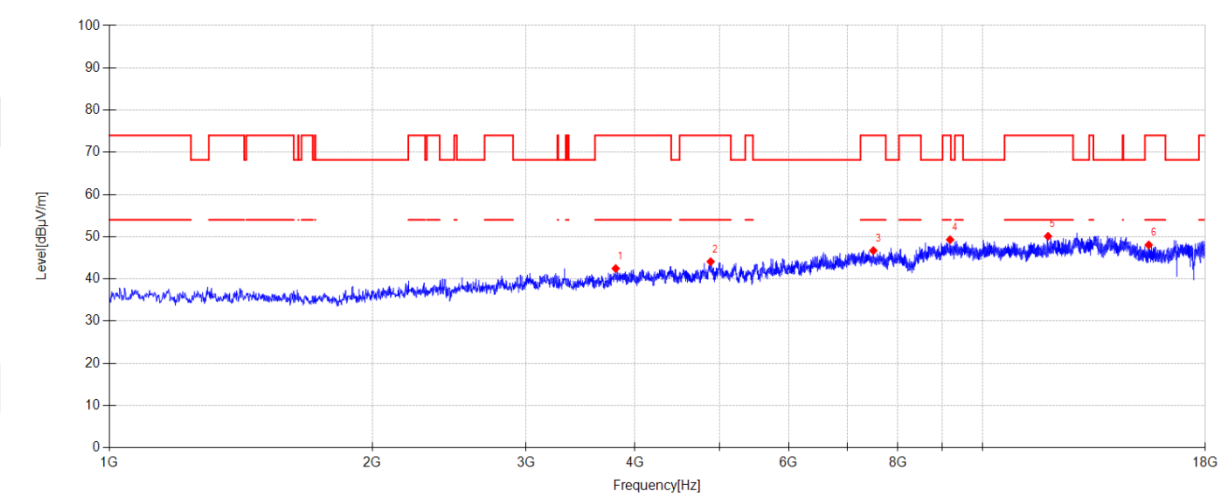
DDT 3# Chamber

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Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	3801.600	46.81	30.88	4.40	-39.62	42.47	74.00	31.53	PK	Vertical
2	4882.800	45.95	33.03	4.90	-39.79	44.09	74.00	29.91	PK	Vertical
3	7499.100	43.55	36.89	6.11	-39.85	46.70	74.00	27.30	PK	Vertical
4	9182.100	42.43	38.61	7.06	-38.80	49.30	74.00	24.70	PK	Vertical
5	11888.500	43.53	38.51	7.66	-39.60	50.10	74.00	23.90	PK	Vertical
6	15504.400	40.24	38.52	8.35	-39.05	48.06	74.00	25.94	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:

2025-12-05

Tested By:

Li Xiongbin

Test Mode:

TX SRD 5787MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

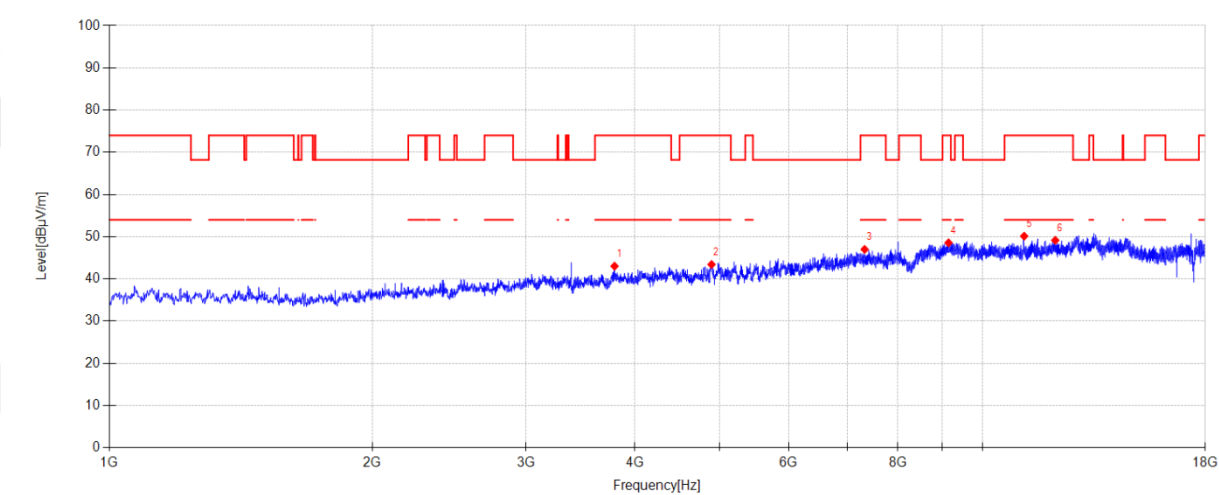
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	3789.700	47.58	30.67	4.40	-39.62	43.03	74.00	30.97	PK	Horizontal
2	4894.700	45.23	33.08	4.91	-39.79	43.43	74.00	30.57	PK	Horizontal
3	7329.100	43.81	37.00	6.06	-39.87	47.00	74.00	27.00	PK	Horizontal
4	9144.700	41.37	38.89	7.06	-38.76	48.56	74.00	25.44	PK	Horizontal
5	11164.300	43.60	38.84	7.29	-39.60	50.13	74.00	23.87	PK	Horizontal
6	12116.300	41.50	39.45	7.71	-39.51	49.15	74.00	24.85	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5787MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

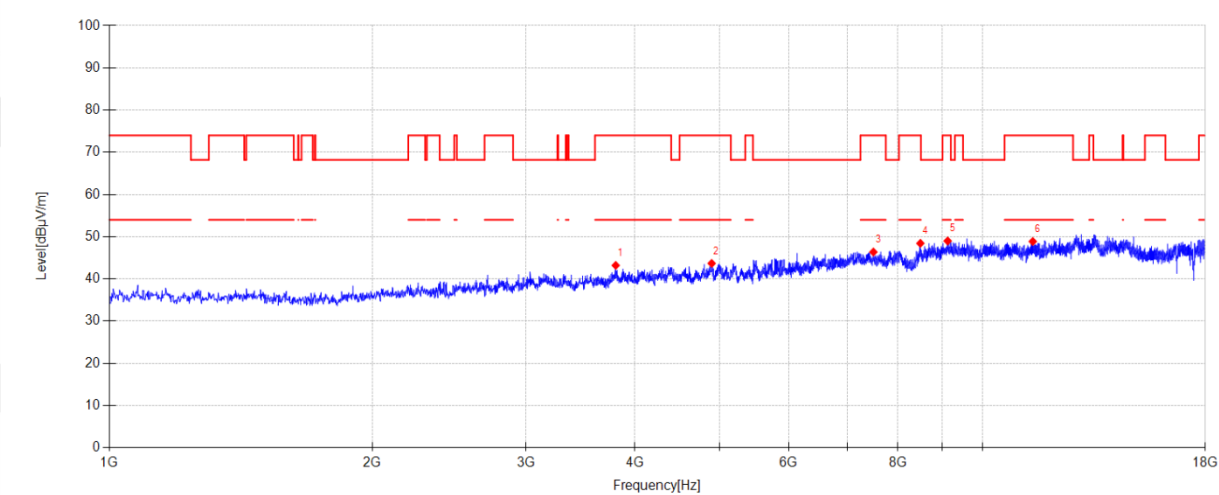
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	3801.600	47.54	30.88	4.40	-39.62	43.20	74.00	30.80	PK	Vertical
2	4896.400	45.47	33.09	4.91	-39.79	43.68	74.00	30.32	PK	Vertical
3	7500.800	43.22	36.89	6.11	-39.85	46.37	74.00	27.63	PK	Vertical
4	8490.200	43.25	37.76	6.64	-39.21	48.44	74.00	25.56	PK	Vertical
5	9122.600	42.23	38.45	7.05	-38.73	49.00	74.00	25.00	PK	Vertical
6	11419.300	41.45	39.61	7.42	-39.60	48.88	74.00	25.12	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5845MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

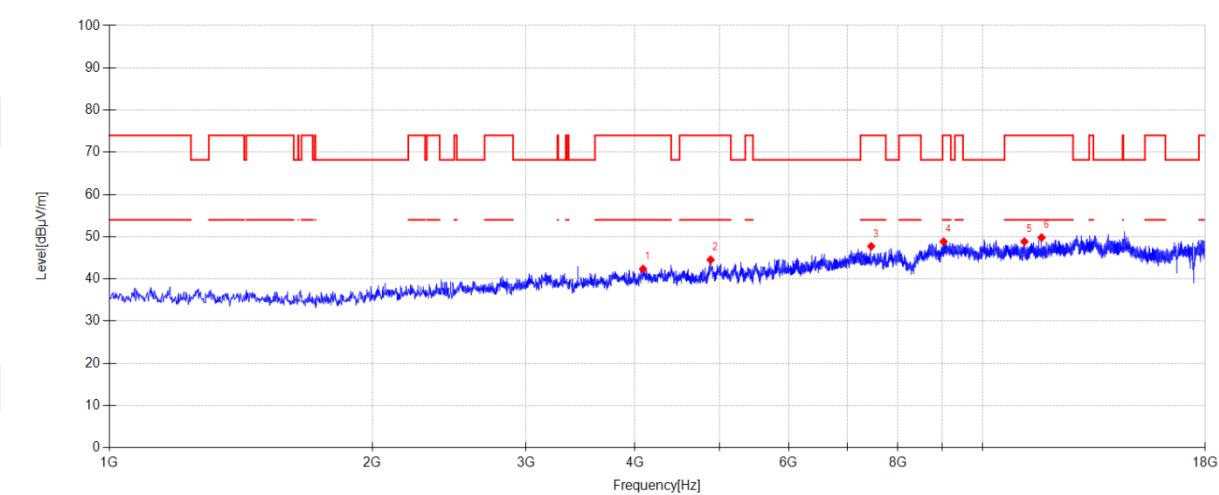
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	4085.500	46.45	31.13	4.50	-39.71	42.37	74.00	31.63	PK	Horizontal
2	4882.800	46.39	33.03	4.90	-39.79	44.53	74.00	29.47	PK	Horizontal
3	7458.300	44.83	36.65	6.10	-39.85	47.73	74.00	26.27	PK	Horizontal
4	9025.700	41.71	38.71	7.03	-38.63	48.82	74.00	25.18	PK	Horizontal
5	11171.100	42.31	38.83	7.29	-39.60	48.83	74.00	25.17	PK	Horizontal
6	11687.900	43.33	38.51	7.56	-39.60	49.80	74.00	24.20	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5845MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

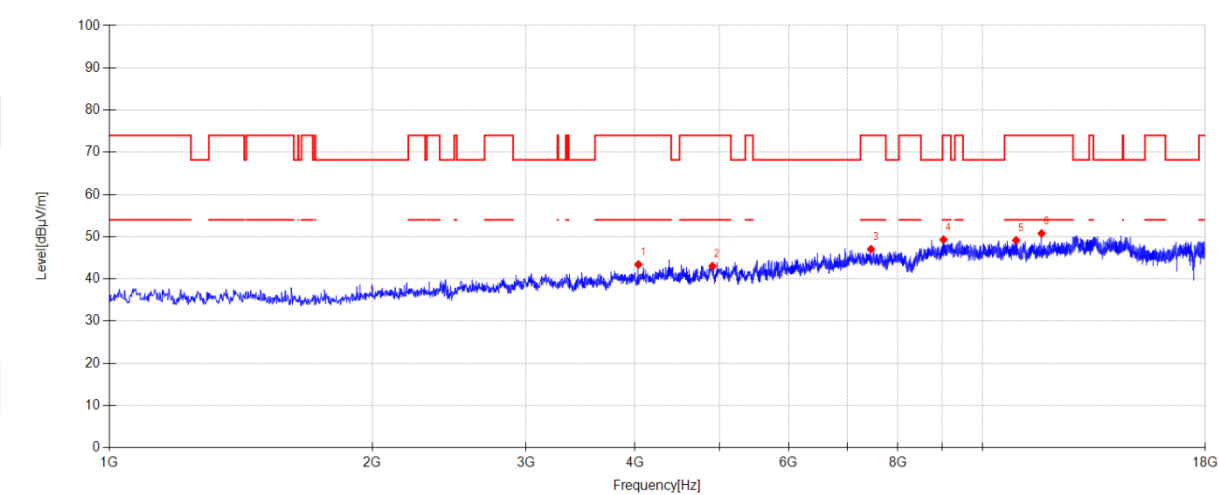
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\6

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	4036.200	47.52	31.12	4.48	-39.70	43.42	74.00	30.58	PK	Vertical
2	4906.600	44.81	33.10	4.91	-39.79	43.03	74.00	30.97	PK	Vertical
3	7451.500	44.18	36.61	6.10	-39.85	47.04	74.00	26.96	PK	Vertical
4	9024.000	42.22	38.69	7.03	-38.63	49.31	74.00	24.69	PK	Vertical
5	10928.000	41.92	39.63	7.20	-39.61	49.14	74.00	24.86	PK	Vertical
6	11687.900	44.31	38.51	7.56	-39.60	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.

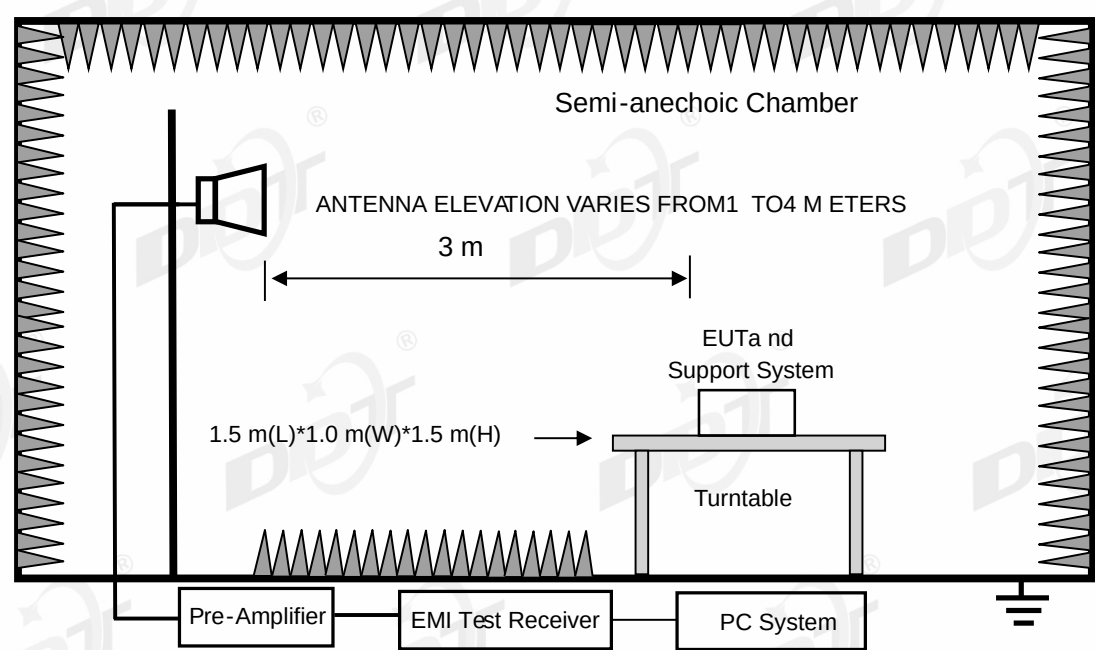
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Band Edge Compliance

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

For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.4. Assistant equipment used for test

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

11.5. Test procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

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

Li Xiongbín

Test Mode:

TX SRD 5729MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

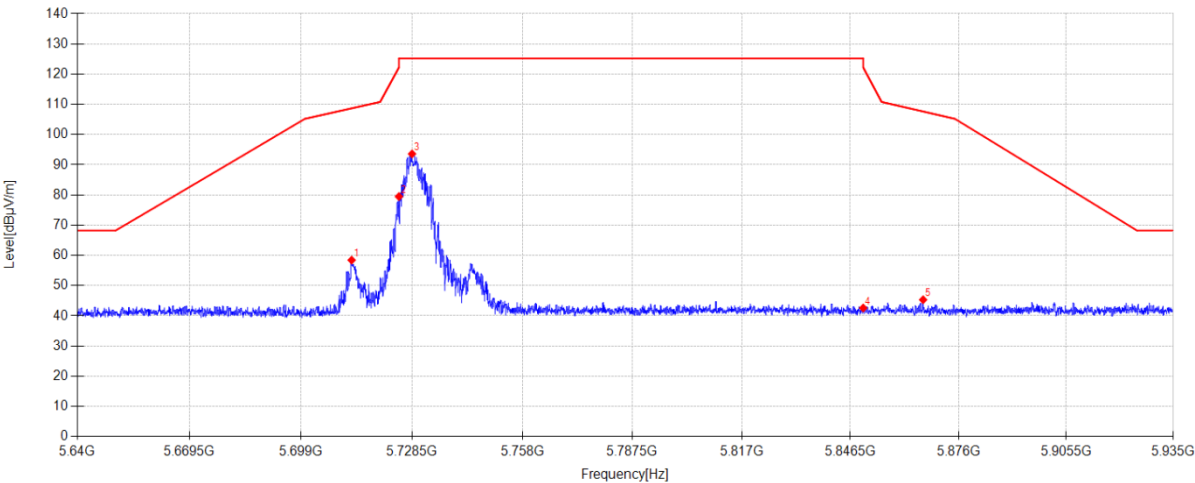
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\7

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5712.423	59.57	33.27	5.25	-39.66	58.43	108.68	50.25	PK	Horizontal
2	5725.000	80.41	33.45	5.26	-39.65	79.47	122.20	42.73	PK	Horizontal
3	5728.500	94.49	33.50	5.26	-39.65	93.60	125.20	31.60	PK	Horizontal
4	5850.000	43.00	33.90	5.31	-39.63	42.58	122.20	79.62	PK	Horizontal
5	5866.324	45.58	34.03	5.32	-39.63	45.30	107.63	62.33	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5729MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

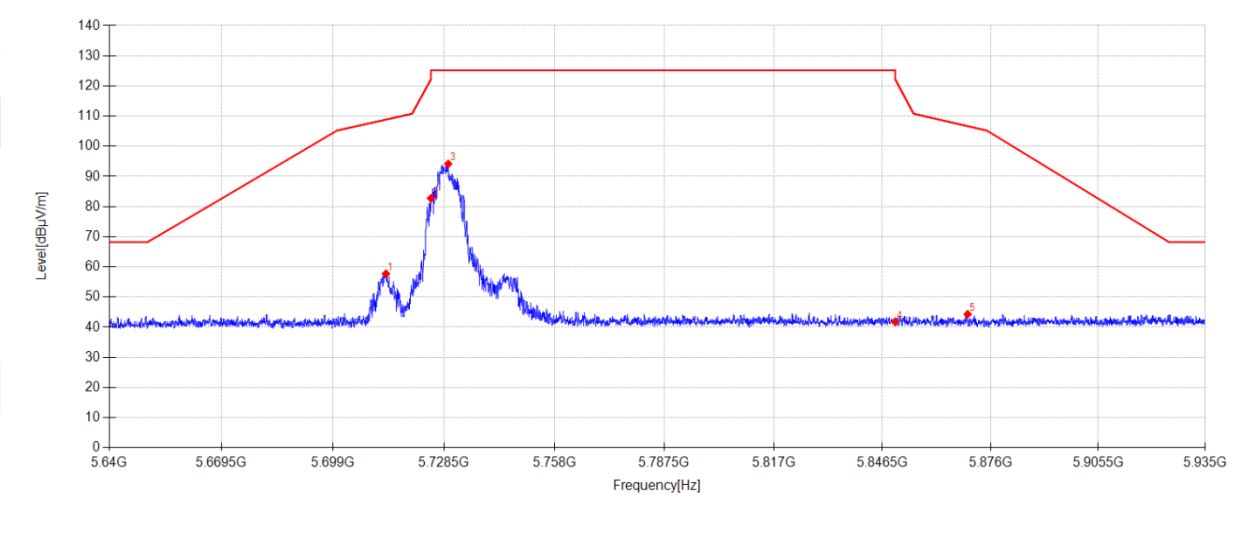
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\8

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5713.042	58.83	33.28	5.26	-39.66	57.71	108.85	51.14	PK	Vertical
2	5725.000	83.69	33.45	5.26	-39.65	82.75	122.20	39.45	PK	Vertical
3	5729.621	95.04	33.51	5.26	-39.65	94.16	125.20	31.04	PK	Vertical
4	5850.000	42.19	33.90	5.31	-39.63	41.77	122.20	80.43	PK	Vertical
5	5869.746	44.55	34.06	5.32	-39.63	44.30	106.67	62.37	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5787MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

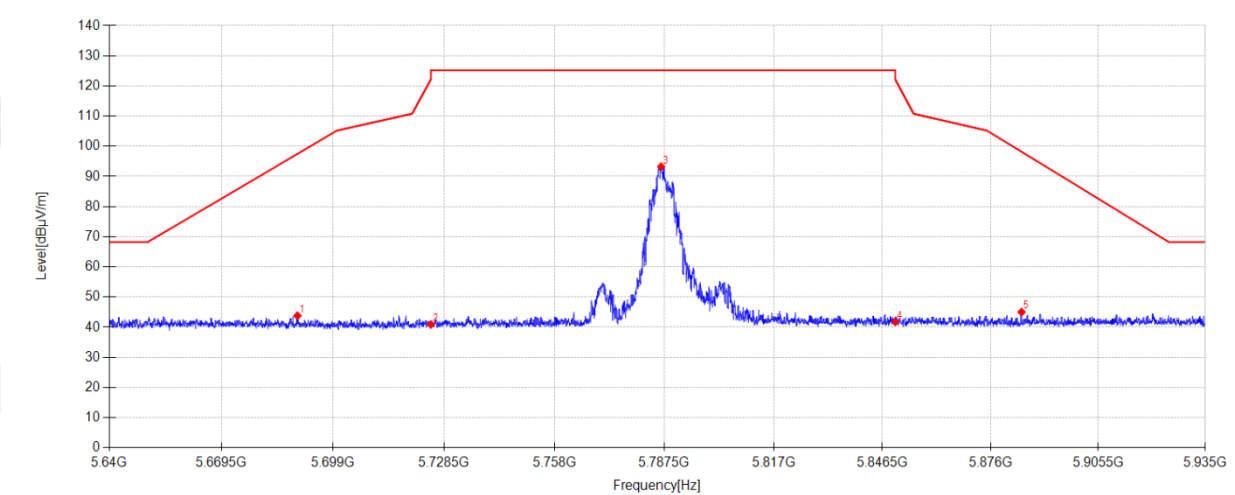
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\9

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5689.560	45.03	33.18	5.25	-39.66	43.80	97.47	53.67	PK	Horizontal
2	5725.000	41.87	33.45	5.26	-39.65	40.93	122.20	81.27	PK	Horizontal
3	5786.645	93.73	33.87	5.28	-39.64	93.24	125.20	31.96	PK	Horizontal
4	5850.000	42.21	33.90	5.31	-39.63	41.79	122.20	80.41	PK	Horizontal
5	5884.467	45.14	34.18	5.32	-39.62	45.02	98.19	53.17	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5787MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

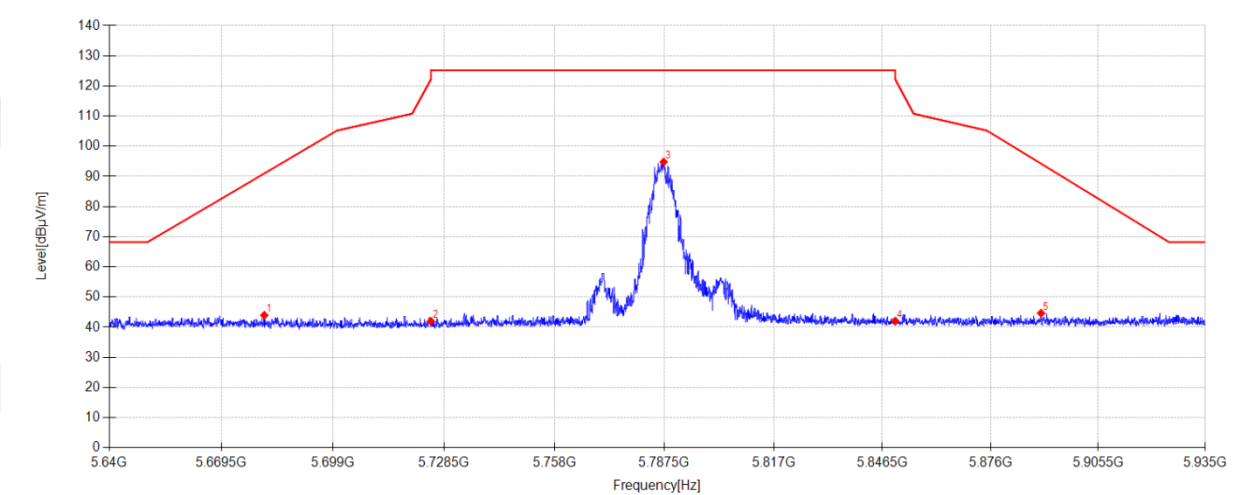
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\10

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5680.799	45.13	33.25	5.24	-39.66	43.96	90.99	47.03	PK	Vertical
2	5725.000	42.92	33.45	5.26	-39.65	41.98	122.20	80.22	PK	Vertical
3	5787.323	95.29	33.87	5.28	-39.64	94.80	125.20	30.40	PK	Vertical
4	5850.000	42.44	33.90	5.31	-39.63	42.02	122.20	80.18	PK	Vertical
5	5889.836	44.72	34.22	5.33	-39.62	44.65	94.22	49.57	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5845MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

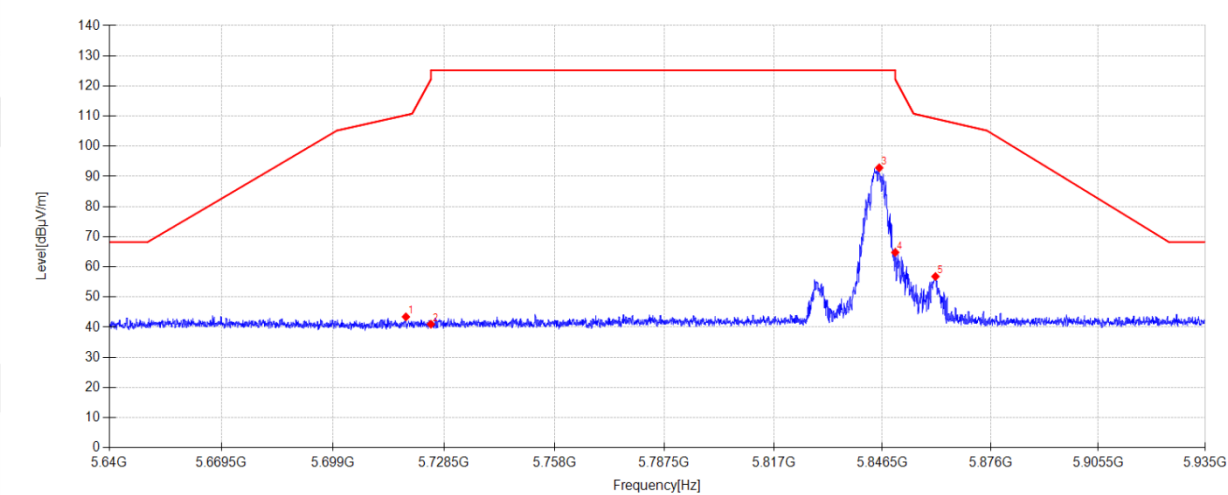
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\11

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5718.352	44.47	33.36	5.26	-39.66	43.43	110.34	66.91	PK	Horizontal
2	5725.000	41.94	33.45	5.26	-39.65	41.00	122.20	81.20	PK	Horizontal
3	5845.645	93.27	33.90	5.31	-39.63	92.85	125.20	32.35	PK	Horizontal
4	5850.000	65.21	33.90	5.31	-39.63	64.79	122.20	57.41	PK	Horizontal
5	5860.955	57.14	33.99	5.31	-39.63	56.81	109.13	52.32	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:

2025-12-05

Tested By:

Li Xiongbín

Test Mode:

TX SRD 5845MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.9°C;Humi:45.9%

Test Site:

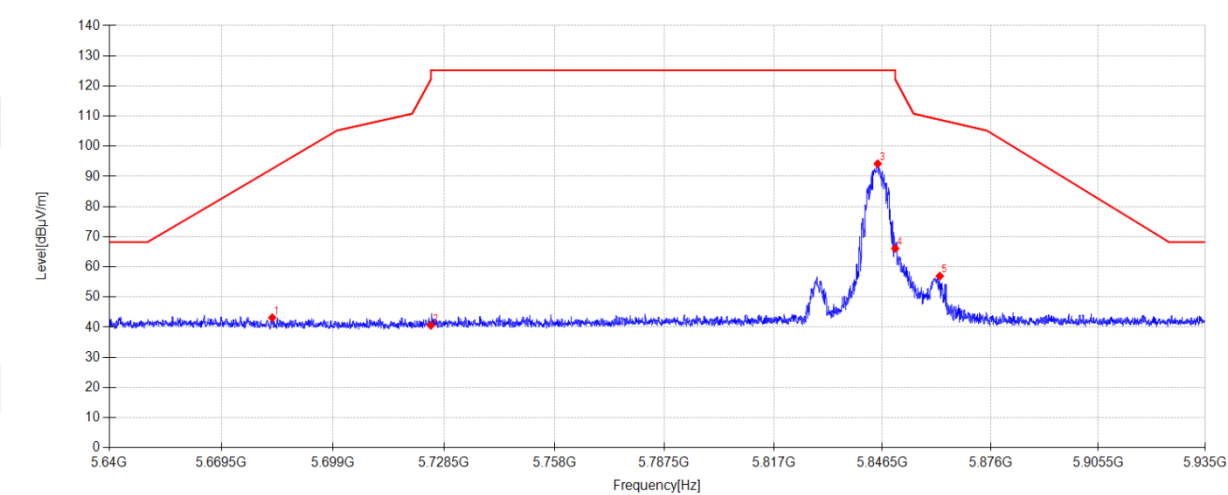
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25111003\FCC Above 1G 5.8G\12

Memo:

Sample Number:S25111416-006;Power Setting:NA



Suspected 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	5682.893	44.31	33.24	5.24	-39.66	43.13	92.54	49.41	PK	Vertical
2	5725.000	41.53	33.45	5.26	-39.65	40.59	122.20	81.61	PK	Vertical
3	5845.232	94.63	33.90	5.31	-39.63	94.21	125.20	30.99	PK	Vertical
4	5850.000	66.53	33.90	5.31	-39.63	66.11	122.20	56.09	PK	Vertical
5	5862.135	57.26	34.00	5.31	-39.63	56.94	108.80	51.86	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.

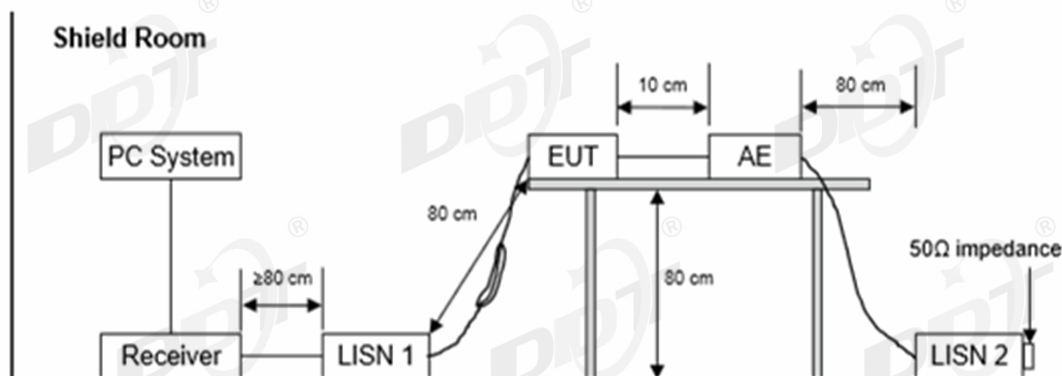
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Power Line Conducted Emissions

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
EMI Test Receiver	R&S	ESCI	DDT-ZC00235	2026/07/06	1 Year
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2026/07/06	1 Year
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2026/07/06	1 Year
Pulse Limiter	SCHWARZBECK	ESH3-Z2	DDT-ZC00539	2026/07/06	1 Year
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2026/07/06	1 Year
EMI Test Software	Audix	e3	DDT-ZC01252	/	/

12.2. Block diagram of test setup



12.3. Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
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.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
Laptop	Lenovo	00425-00000-00002-AA135	NA

12.5. 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.

12.6. 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.

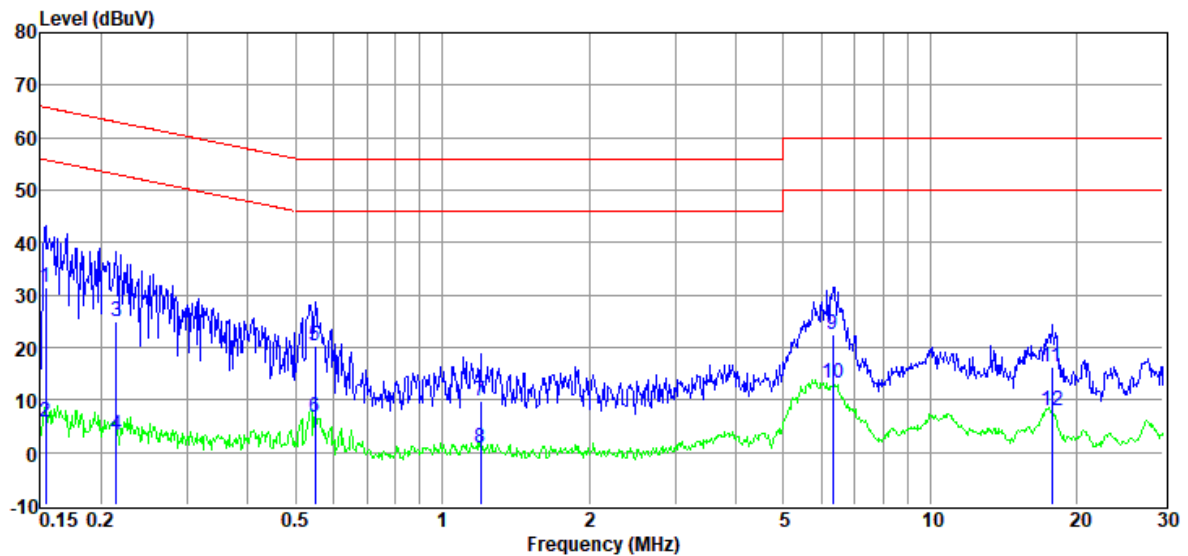
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

12.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2025 CE report data\Q25111416\1213 CE.EM6
Test Date : 2025-12-13 Tested By : Yishrng Ling
Power Supply : AC 120V/60Hz Test Mode : 5.8G SRD 5729 TX Mode
Condition : TEMP:25.4°C, RH:53% LISN : 2025 1# 216/LINE
Memo :

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Margin (dB)	Detector	Phase
1	0.15	11.68	9.85	0.05	9.89	31.47	65.78	34.31	QP	LINE
2	0.15	-13.89	9.85	0.05	9.89	5.90	55.78	49.88	Average	LINE
3	0.22	5.31	9.82	0.06	9.89	25.08	63.01	37.93	QP	LINE
4	0.22	-16.49	9.82	0.06	9.89	3.28	53.01	49.73	Average	LINE
5	0.55	0.39	9.86	0.10	9.89	20.24	56.00	35.76	QP	LINE
6	0.55	-13.11	9.86	0.10	9.89	6.74	46.00	39.26	Average	LINE
7	1.20	-10.21	9.92	0.15	9.90	9.76	56.00	46.24	QP	LINE
8	1.20	-19.05	9.92	0.15	9.90	0.92	46.00	45.08	Average	LINE
9	6.32	2.46	9.93	0.21	9.85	22.45	60.00	37.55	QP	LINE
10	6.32	-6.94	9.93	0.21	9.85	13.05	50.00	36.95	Average	LINE
11	17.76	-4.51	10.36	0.38	9.93	16.16	60.00	43.84	QP	LINE
12	17.76	-12.89	10.36	0.38	9.93	7.78	50.00	42.22	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

D:\2025 CE report data\Q25111416\1213 CE.EM6

Test Date : 2025-12-13

Tested By : Yishrng Ling

Power Supply : AC 120V/60Hz

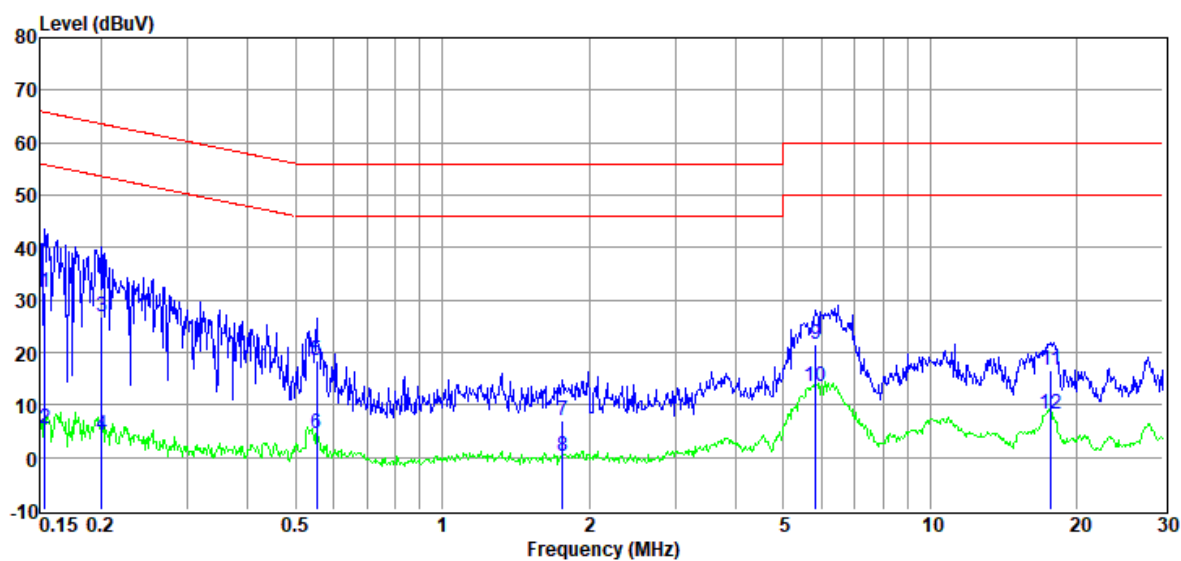
Test Mode : 5.8G SRD 5729 TX Mode

Condition : TEMP:25.4°C, RH:53%

LISN : 2025 1# 216/NEUTRAL

Memo :

Data: 12



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Margin	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	11.70	9.75	0.05	9.89	31.39	65.82	34.43	QP	NEUTRAL
2	0.15	-14.12	9.75	0.05	9.89	5.57	55.82	50.25	Average	NEUTRAL
3	0.20	6.90	9.83	0.06	9.89	26.68	63.58	36.90	QP	NEUTRAL
4	0.20	-15.60	9.83	0.06	9.89	4.18	53.58	49.40	Average	NEUTRAL
5	0.55	-1.47	9.89	0.10	9.89	18.41	56.00	37.59	QP	NEUTRAL
6	0.55	-15.38	9.89	0.10	9.89	4.50	46.00	41.50	Average	NEUTRAL
7	1.76	-12.96	9.79	0.16	9.89	6.88	56.00	49.12	QP	NEUTRAL
8	1.76	-19.72	9.79	0.16	9.89	0.12	46.00	45.88	Average	NEUTRAL
9	5.84	1.72	9.86	0.21	9.85	21.64	60.00	38.36	QP	NEUTRAL
10	5.84	-6.49	9.86	0.21	9.85	13.43	50.00	36.57	Average	NEUTRAL
11	17.66	-4.26	10.44	0.38	9.93	16.49	60.00	43.51	QP	NEUTRAL
12	17.66	-12.49	10.44	0.38	9.93	8.26	50.00	41.74	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.

14. Photos of the EUT

Please refer to DDT-Q25111003-1E appendix I

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