



RADIO TEST REPORT

Applicant	:	Hunan Sany Intelligent Control Equipment CO.,LTD
Address of Applicant	:	Sany Industrial Park, Xingsha Enterprise Zone, Changsha Hunan Province 410100, PEOPLE'S REPUBLIC OF CHINA
Manufacturer	:	Hunan Sany Intelligent Control Equipment CO.,LTD
Address of Manufacturer	:	Sany Industrial Park, Xingsha Enterprise Zone, Changsha Hunan Province 410100, PEOPLE'S REPUBLIC OF CHINA
Equipment under Test	:	AIRC wireless module
Model No.	:	AIRC-RF-900M
FCC ID	:	2BXL8-AIRC RF900M
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020+Cor.1-2023
Report No.	:	DDT-RE25120143-1E01
Issue Date	:	2026/08/19
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test.....	9
2.4.	Decision of final test mode	9
2.5.	Deviations of test standard	10
2.6.	Test environment conditions	10
2.7.	Test laboratory	10
2.8.	Measurement uncertainty	11
3.	Equipment Used During Conductive Test	12
4.	20 dB Bandwidth	13
4.1.	Block diagram of test setup	13
4.2.	Limits	13
4.3.	Test procedure	13
4.4.	Test result.....	14
4.5.	Test graphs	15
5.	99% Bandwidth	17
5.1.	Block diagram of test setup	17
5.2.	Limits	17
5.3.	Test procedure	17
5.4.	Test result.....	18
5.5.	Test graphs	19
6.	Maximum Peak Output Power.....	21
6.1.	Block diagram of test setup	21
6.2.	Limits	21
6.3.	Test procedure	21
6.4.	Test result.....	22
6.5.	Test graphs	23
7.	Carrier Frequency Separation	25
7.1.	Block diagram of test setup	25
7.2.	Limits	25
7.3.	Test procedure	25
7.4.	Test result.....	26
7.5.	Test graphs	27
8.	Dwell Time.....	28

8.1.	Block diagram of test setup	28
8.2.	Limits	28
8.3.	Test procedure	28
8.4.	Test result.....	29
8.5.	Test graphs	30
9.	Number of Hopping Channel.....	31
9.1.	Block diagram of test setup	31
9.2.	Limits	31
9.3.	Test procedure	31
9.4.	Test result.....	32
9.5.	Test graphs	33
10.	Band Edge Compliance (Conducted Method).....	34
10.1.	Block diagram of test setup	34
10.2.	Limit.....	34
10.3.	Test procedure	34
10.4.	Test result.....	35
10.5.	Test graphs	36
11.	RF Conducted Spurious Emissions.....	38
11.1.	Block diagram of test setup	38
11.2.	Limits	38
11.3.	Test procedure	38
11.4.	Test result.....	39
11.5.	Test graphs	40
12.	Duty cycle.....	44
12.1.	Block diagram of test setup	44
12.2.	Limit.....	44
12.3.	Test procedure	44
12.4.	Test result.....	45
12.5.	Test graphs	46
13.	Antenna Requirements.....	48
13.1.	Limit.....	48
13.2.	Result	48
14.	Radiated Emission	49
14.1.	Test equipment.....	49
14.2.	Block diagram of test setup	50
14.3.	Limits	51
14.4.	Assistant equipment used for test	53
14.5.	Test procedure	53

14.6.	Test result.....	54
14.7.	Test data	55
15.	Band Edge Compliance.....	71
15.1.	Test equipment.....	71
15.2.	Block diagram of test setup	71
15.3.	Limits	71
15.4.	Assistant equipment used for test	71
15.5.	Test procedure	72
15.6.	Test result.....	72
15.7.	Test data	73
16.	Power Line Conducted Emissions.....	81
16.1.	Test equipment.....	81
16.2.	Block diagram of test setup	81
16.3.	Limits	81
16.4.	Assistant equipment used for test	81
16.5.	Test procedure	81
16.6.	Test result.....	82
17.	Test Setup Photograph	83
18.	Photos of the EUT	87

Test Report Declare

Applicant	:	Hunan Sany Intelligent Control Equipment CO.,LTD
Address of Applicant	:	Sany Industrial Park, Xingsha Enterprise Zone, Changsha Hunan Province 410100, PEOPLE'S REPUBLIC OF CHINA
Equipment under Test	:	AIRC wireless module
Model No.	:	AIRC-RF-900M
Manufacturer	:	Hunan Sany Intelligent Control Equipment CO.,LTD
Address of Manufacturer	:	Sany Industrial Park, Xingsha Enterprise Zone, Changsha Hunan Province 410100, PEOPLE'S REPUBLIC OF CHINA

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10-2020+Cor.1-2023

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-RE25120143-1E01		
Date of Receipt:	2026/01/29	Date of Test:	2026/01/29 - 2026/07/20

Created: Johnson Huang	Reviewed: Tiger Mo	Approved: Ella Gong
		
2026/07/20	2026/08/19	2026/08/19

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	2026/08/19	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	Maximum Peak Output Power	47 CFR Part 15 15.247(b)(1)	/	Pass
2	20 dB Bandwidth	47 CFR Part 15 15.247(a)(1)	/	Pass
3	Carrier Frequency Separation	47 CFR Part 15 15.247(a)(1)	/	Pass
4	Number of Hopping Channel	47 CFR Part 15 15.247(a)(1)(iii)	/	Pass
5	Dwell Time	47 CFR Part 15 15.247(a)(1)(iii)	/	Pass
6	RF Conducted Spurious Emissions	47 CFR Part 15 15.247(d)	/	Pass
7	Radiated Emission	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
8	Band Edge Compliance	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
9	Antenna Requirement	47 CFR Part 15 15.203	/	Pass
10	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	N/A

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

2. General Test Information

2.1. Description of EUT

EUT Name	: AIRC wireless module
Model Number	: AIRC-RF-900M
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V
Antenna Type	: Rod Antenna
Max Antenna Gain(dBi)	: Ant1: 1.8dBi Ant2: 3.0 dBi

Radio Specification	: SRD
Operation Frequency	: 903 MHz to 916.8 MHz
Modulation	: GFSK

SRD Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903	22	907.83	43	912.66
2	903.23	23	908.06	44	912.89
3	903.46	24	908.29	45	913.12
4	903.69	25	908.52	46	913.35
5	903.92	26	908.75	47	913.58
6	904.15	27	908.98	48	913.81
7	904.38	28	909.21	49	914.04
8	904.61	29	909.44	50	914.27
9	904.84	30	909.67	51	914.5
10	905.07	31	909.9	52	914.73
11	905.3	32	910.13	53	914.96
12	905.53	33	910.36	54	915.19
13	905.76	34	910.59	55	915.42
14	905.99	35	910.82	56	915.65
15	906.22	36	911.05	57	915.88
16	906.45	37	911.28	58	916.11
17	906.68	38	911.51	59	916.34
18	906.91	39	911.74	60	916.57
19	907.14	40	911.97	61	916.8
20	907.37	41	912.2	/	/
21	907.6	42	912.43	/	/

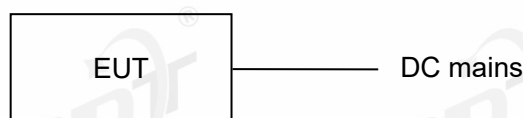
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: sscom5.13.1.exe

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

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

Tested mode, Tx Power Setting, Channel, and Frequency			
Tested mode	Tx Power Setting	Channel	Frequency (MHz)
SRD hopping on Tx mode	Default	CH1 to CH61	903 to 916.8
SRD hopping off Tx mode	Default	CH1	903
	Default	C31	909.9
	Default	CH61	916.8
Note: According exploratory test, EUT will have maximum output power.			

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

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

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

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

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

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

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

Conformity Assessment Body identifier: CN0048

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

2.8. Measurement uncertainty

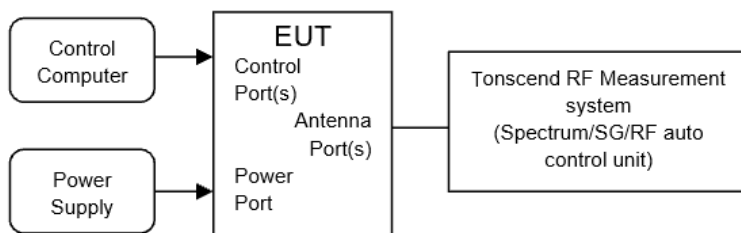
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9\text{ kHz} \leq f < 7\text{ GHz}$);
	3.31 dB ($7\text{ GHz} \leq f < 40\text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (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	2027/02/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2027/02/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/08/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonscend	JS0806-2	21I8060485	2027/02/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2027/02/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

- (1) The test according to ANSI C63.10 clause 6.9.2.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 20 dB bandwidth measurement:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 2 times and 5 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold

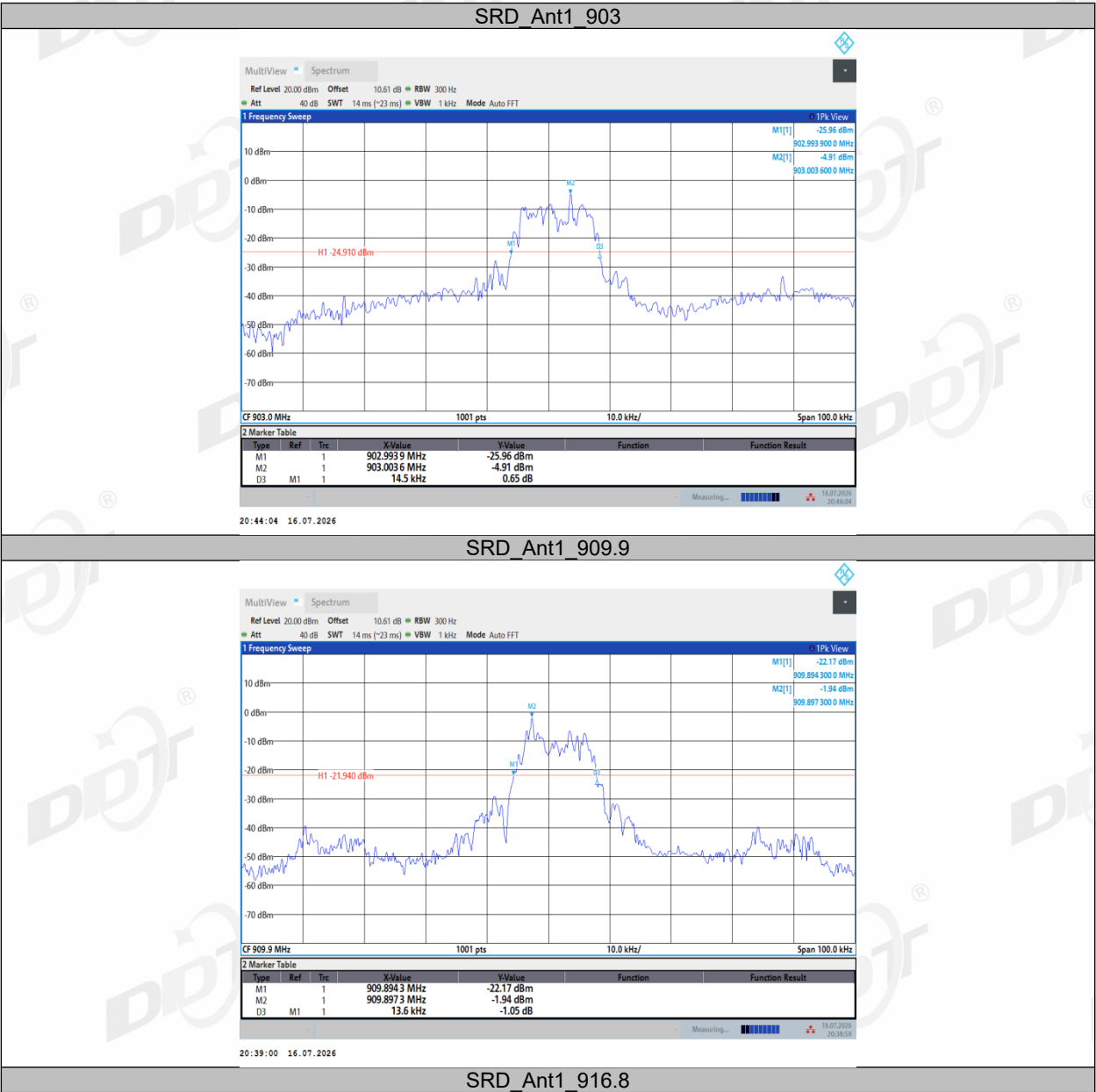
- (5) Measure and record the results in the report.

4.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

Test Mode	Antenna	Frequency [MHz]	20dB EBW[MHz]
SRD	Ant1	903	0.02
		909.9	0.01
		916.8	0.02

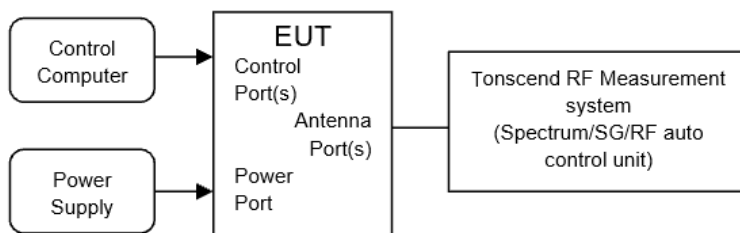
4.5. Test graphs





5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% bandwidth measurement:

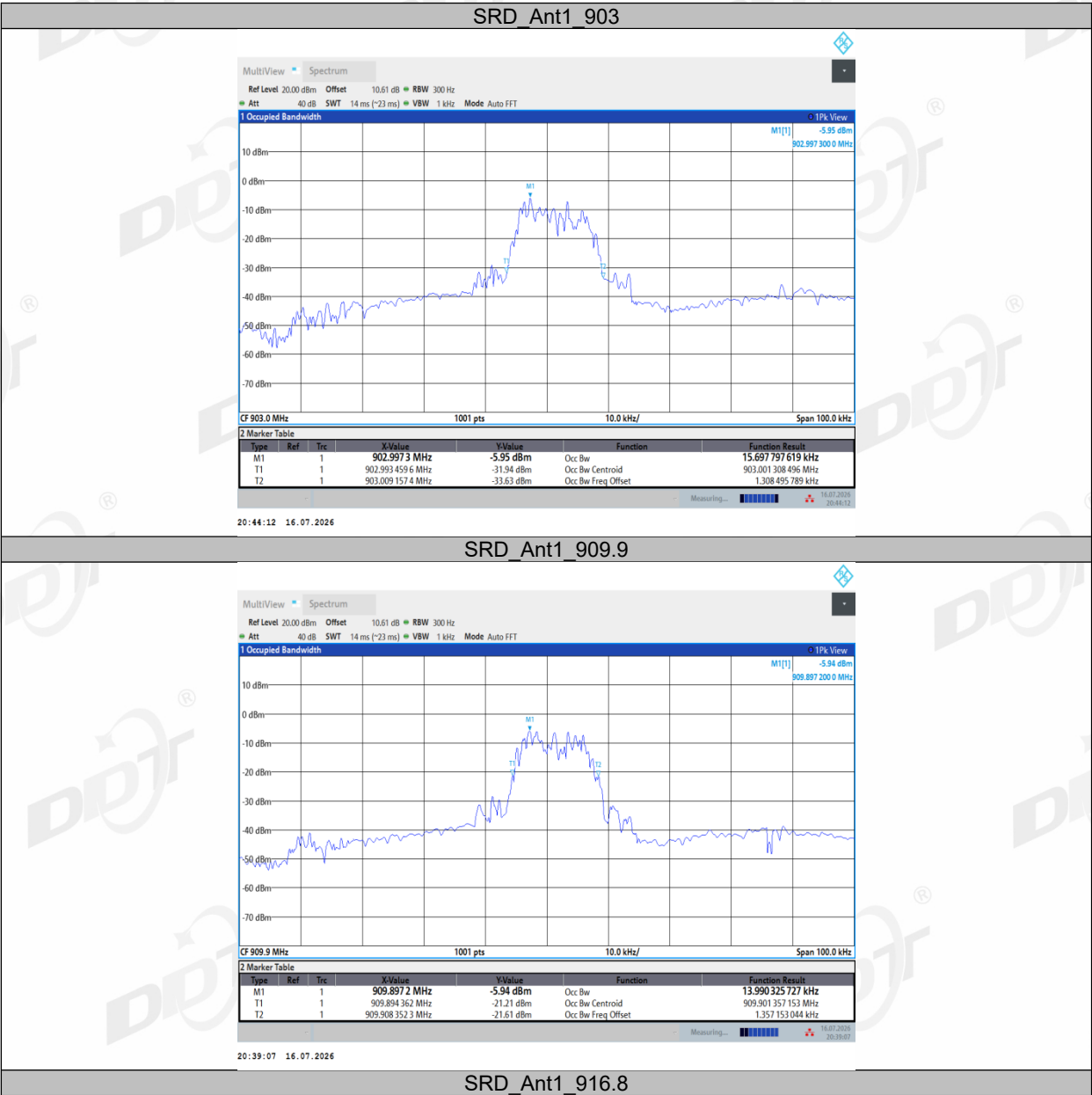
RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Measure and record the results in the report.

5.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
SRD	Ant1	903	0.01570	902.9935	903.0092
		909.9	0.01399	909.8944	909.9084
		916.8	0.01372	916.7947	916.8084

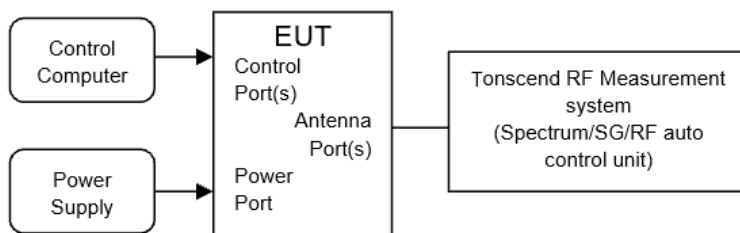
5.5. Test graphs





6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. Limits

For frequency hopping systems operating in the 902-928 MHz band employing at least 50 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 902-928 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

6.3. Test procedure

- (1) The test according to ANSI C63.10 clause 7.8.5.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

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

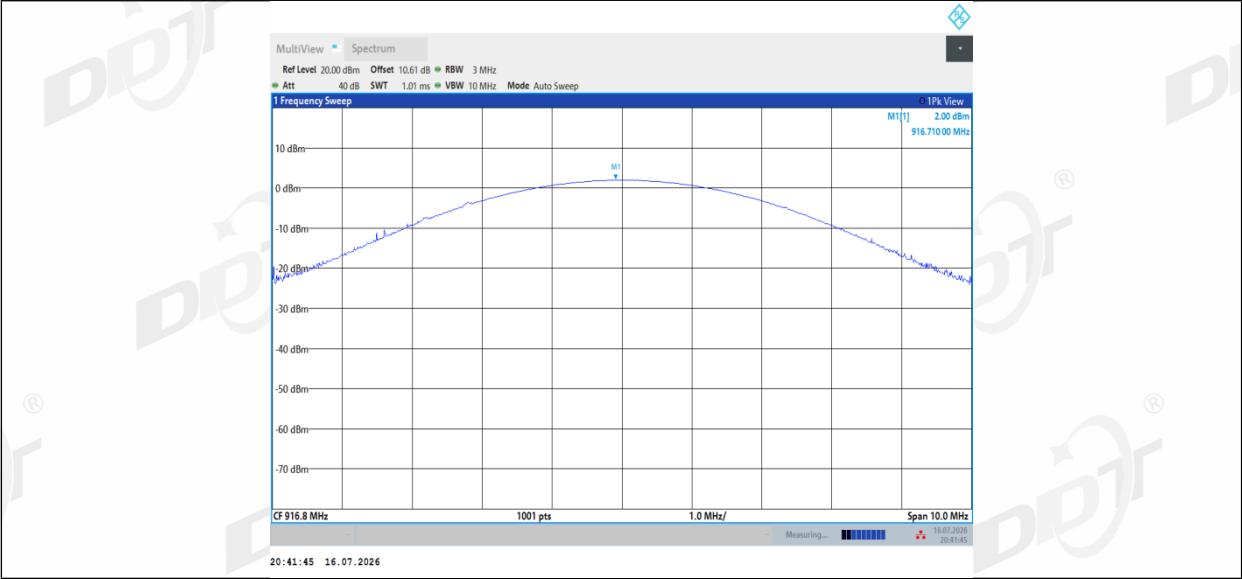
6.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	903	2.81	≤20.97	PASS
		909.9	2.52	≤20.97	PASS
		916.8	2.00	≤20.97	PASS

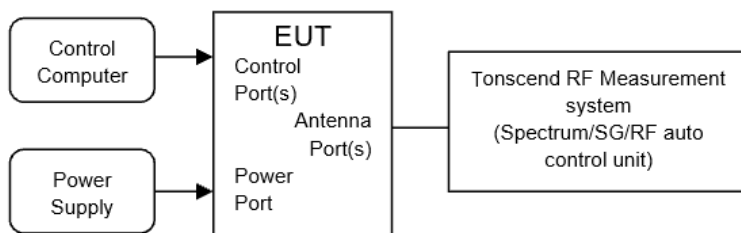
6.5. Test graphs





7. Carrier Frequency Separation

7.1. Block diagram of test setup



7.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 902-928 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3. Test procedure

- (1) The test according to ANSI C63.10 clause 7.8.2.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

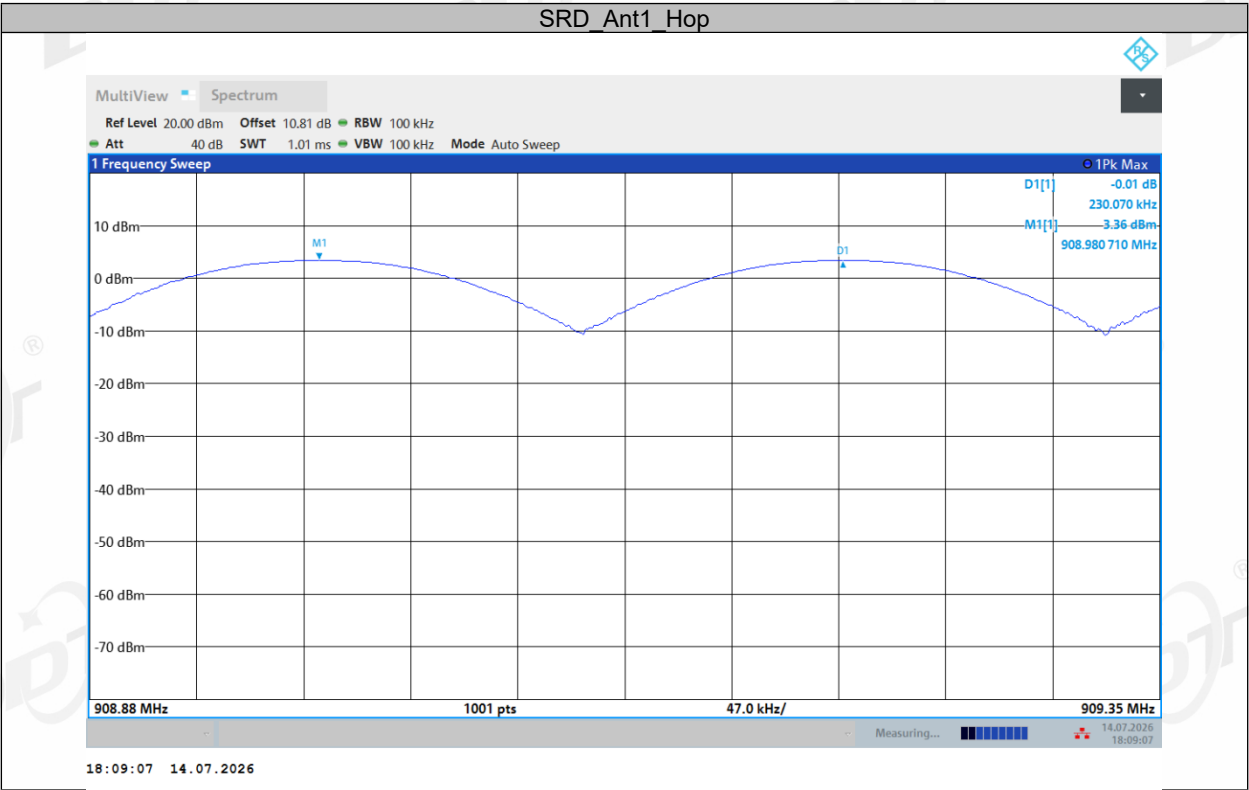
RBW:	approximately 30% of the channel spacing
VBW:	$VBW \geq RBW$.
Span:	Wide enough to capture the peaks of two adjacent channels.
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Use the marker-delta function to determine the separation between the peaks of the adjacent channels and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

7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#	
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16	
Test Power Supply:	DC 5V	Sample Number:	S25120143-001	

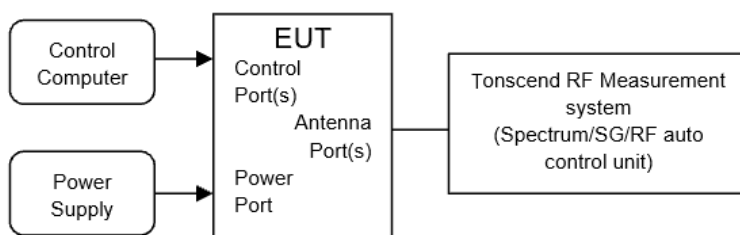
Test Mode	Frequency [MHz]	Result [kHz]	Limit [kHz]	Verdict
SRD	hopping on	230	≥25	PASS

7.5. Test graphs



8. Dwell Time

8.1. Block diagram of test setup



8.2. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3. Test procedure

- (1) The test according to ANSI C63.10 clause 7.8.4.
- (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:

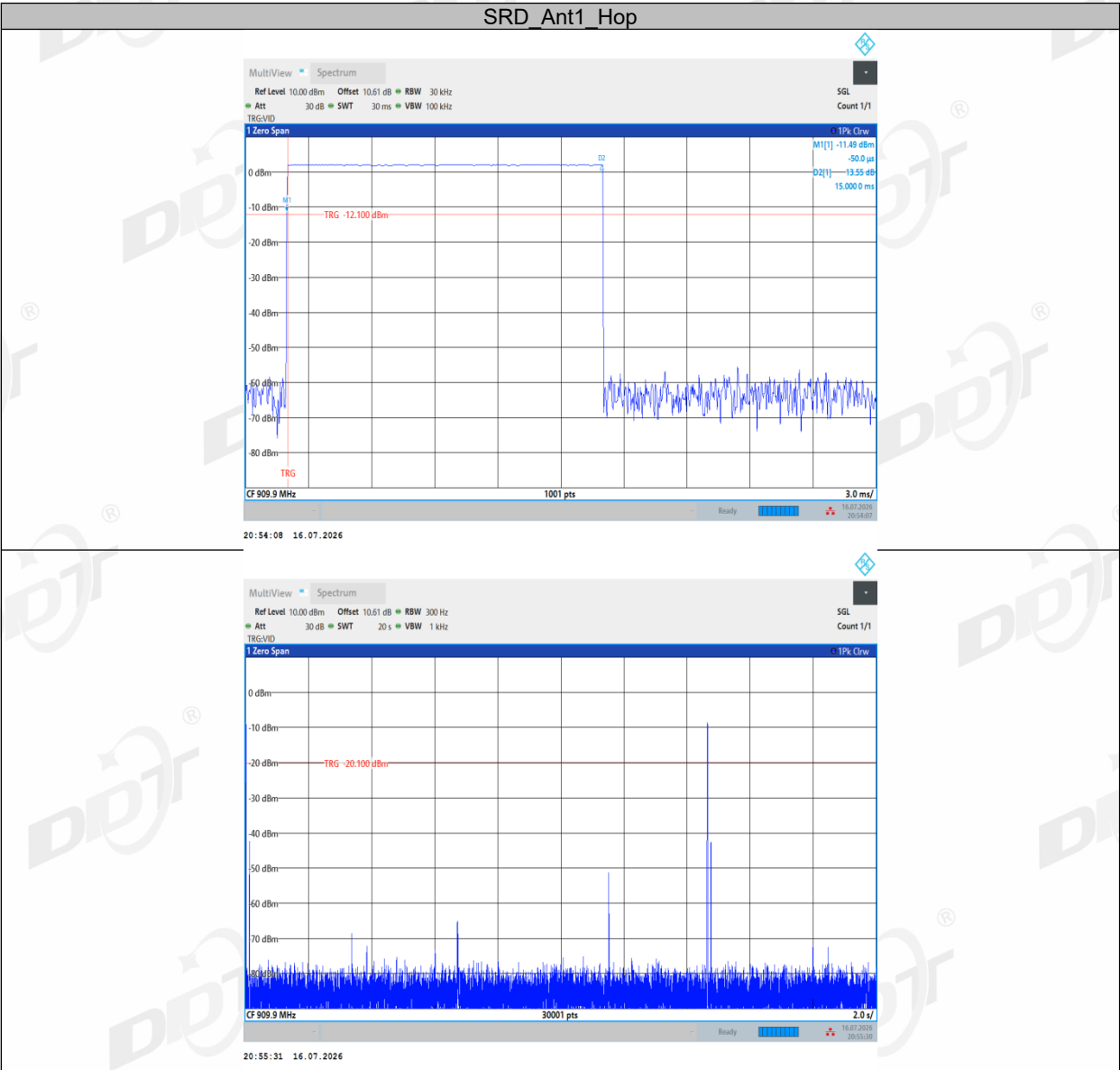
RBW:	≤ channel spacing and where possible RBW should be set $\gg 1/T$
VBW:	$VBW \geq RBW$.
Span:	Zero span, centered on a hopping channel.
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Clear Write.
- (5) The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$
- (6) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula Dwell time = total hops * pulse's on time.
- (7) Measure and record the results in the report.

8.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

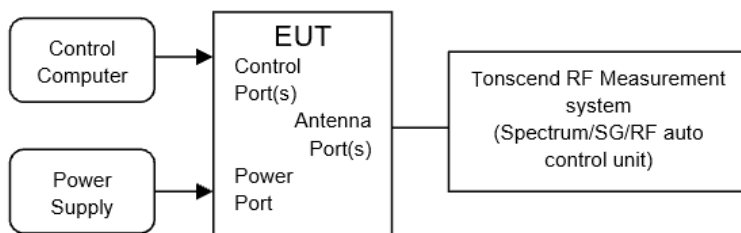
Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
SRD	Ant1	Hop	15.000	5.12	0.077	≤0.4	PASS

8.5. Test graphs



9. Number of Hopping Channel

9.1. Block diagram of test setup



9.2. Limits

Frequency hopping systems in the 902-928 MHz band shall use at least 50 channels.

9.3. Test procedure

- (1) The test according to ANSI C63.10 clause 7.8.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

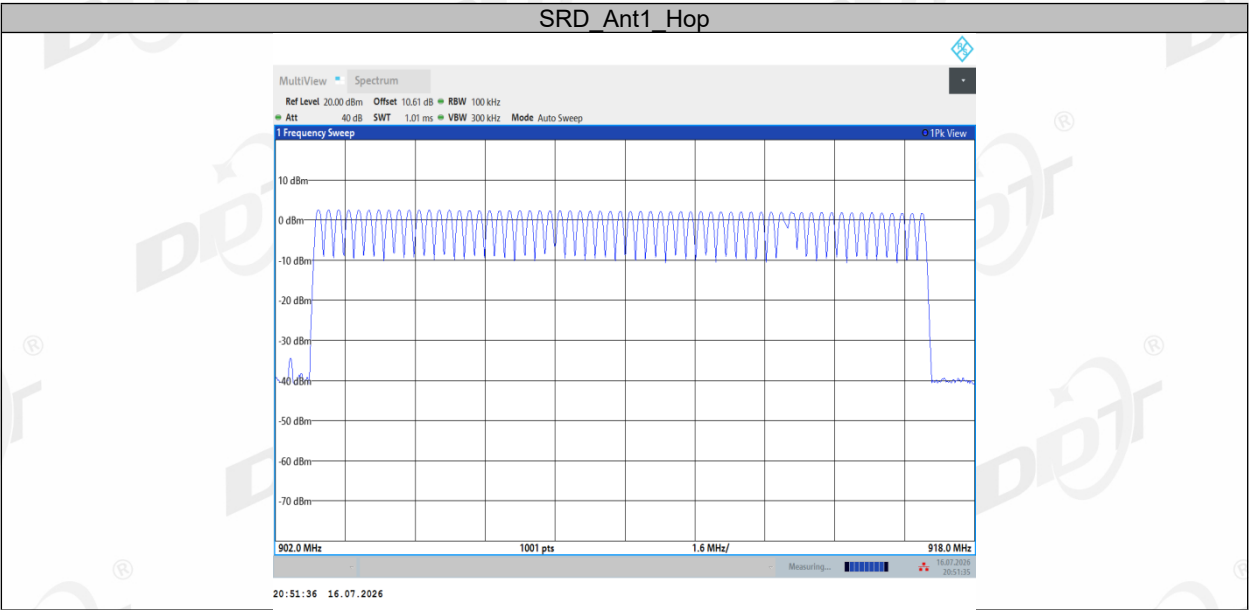
RBW:	RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW:	VBW $\geq$ RBW.
Span:	The frequency band of operation
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Measure the hopping number and record the results in the report.
- (6) Measure and record the results in the report.

9.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

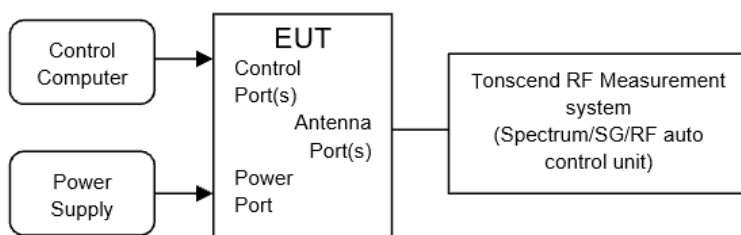
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
SRD	Ant1	Hop	61	≥50	PASS

9.5. Test graphs



10. Band Edge Compliance (Conducted Method)

10.1. Block diagram of test setup



10.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

10.3. Test procedure

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

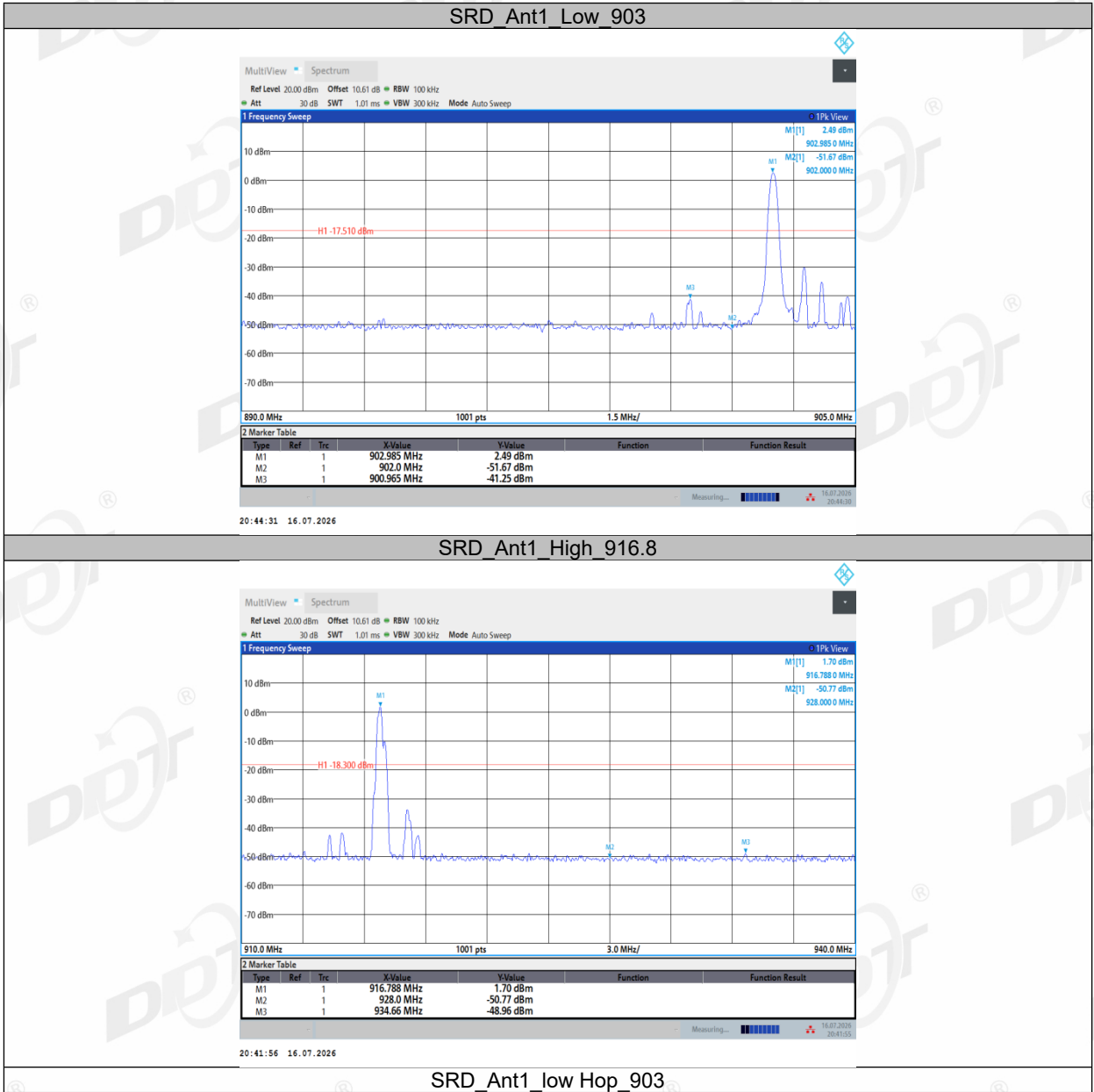
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

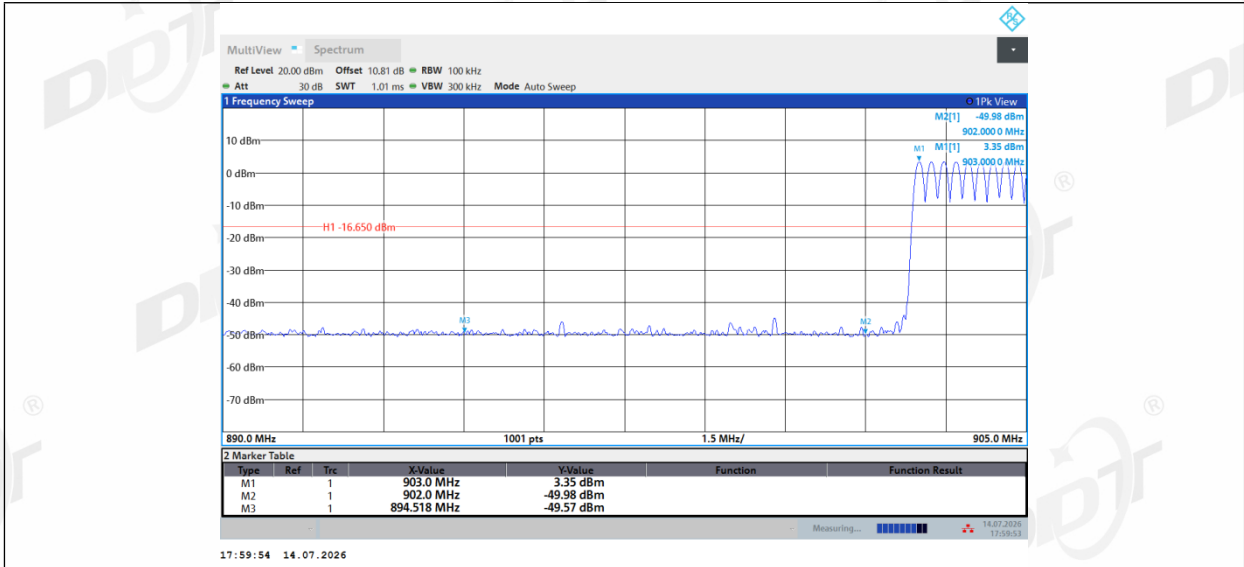
10.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

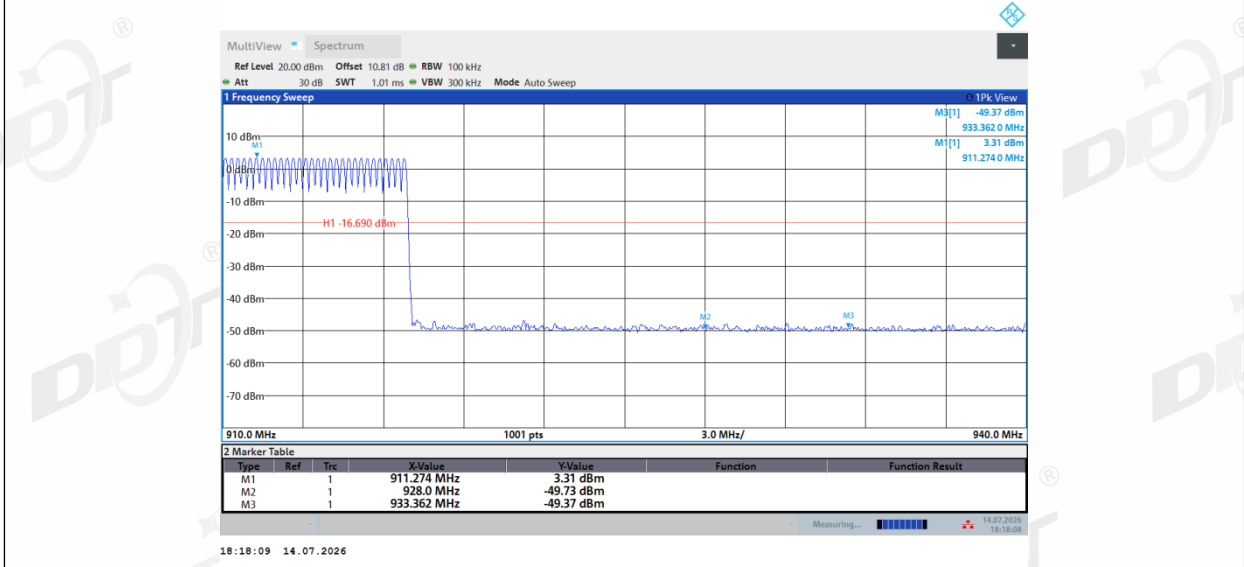
Mode	Freq. (MHz)	Verdict
SRD	Hopping off 903	Pass
	Hopping off 916.8	Pass
	Hopping on	Pass

10.5. Test graphs



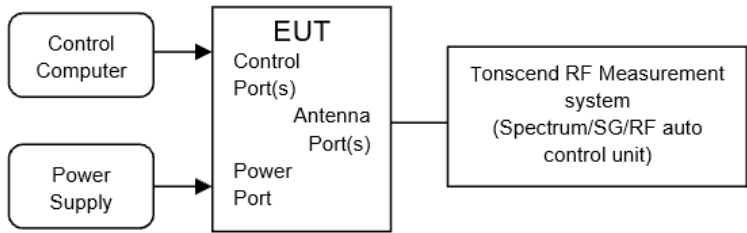


SRD_Ant1_High_916.8



11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup



11.2. 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.

11.3. Test procedure

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

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
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) 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

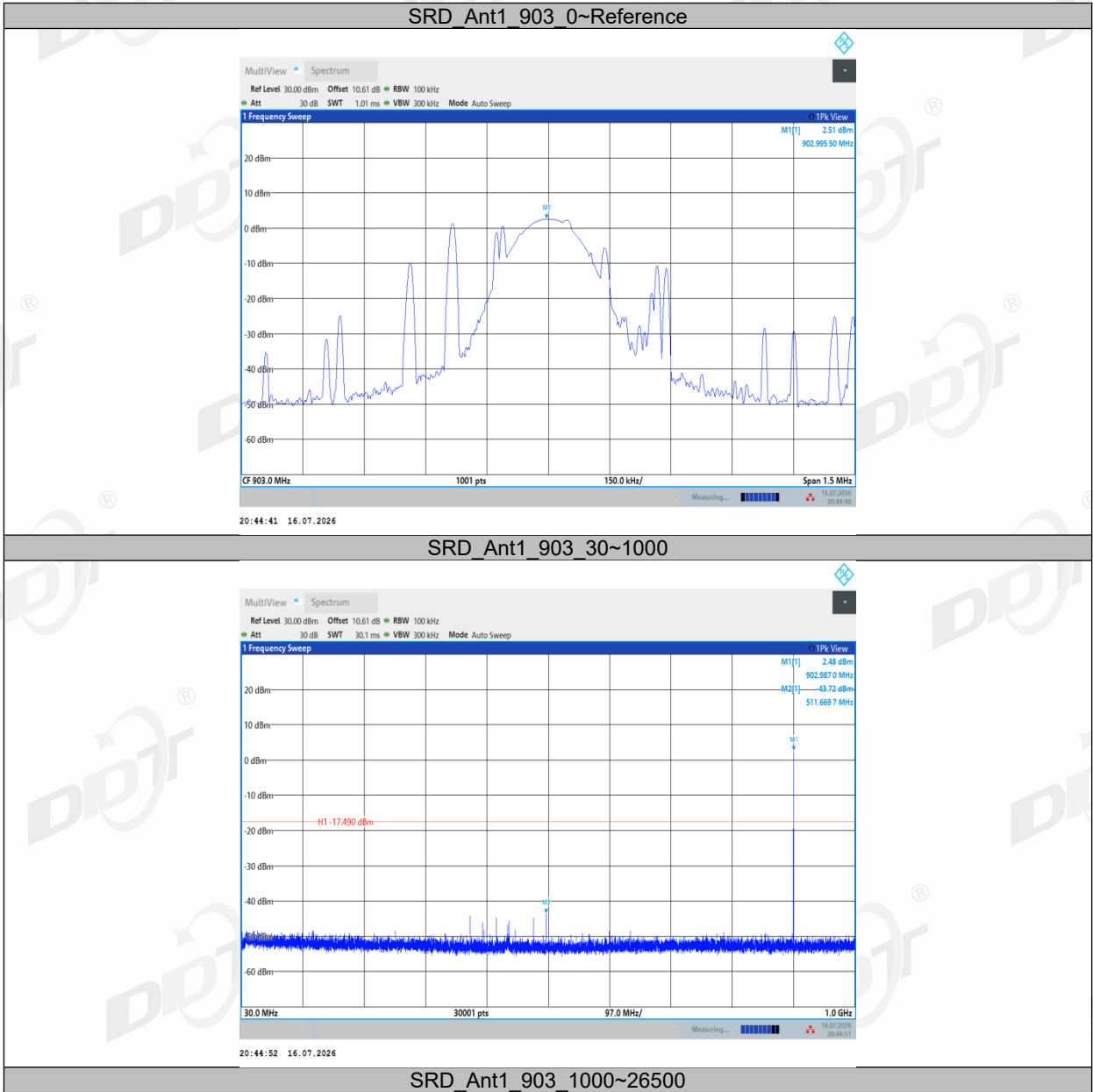
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

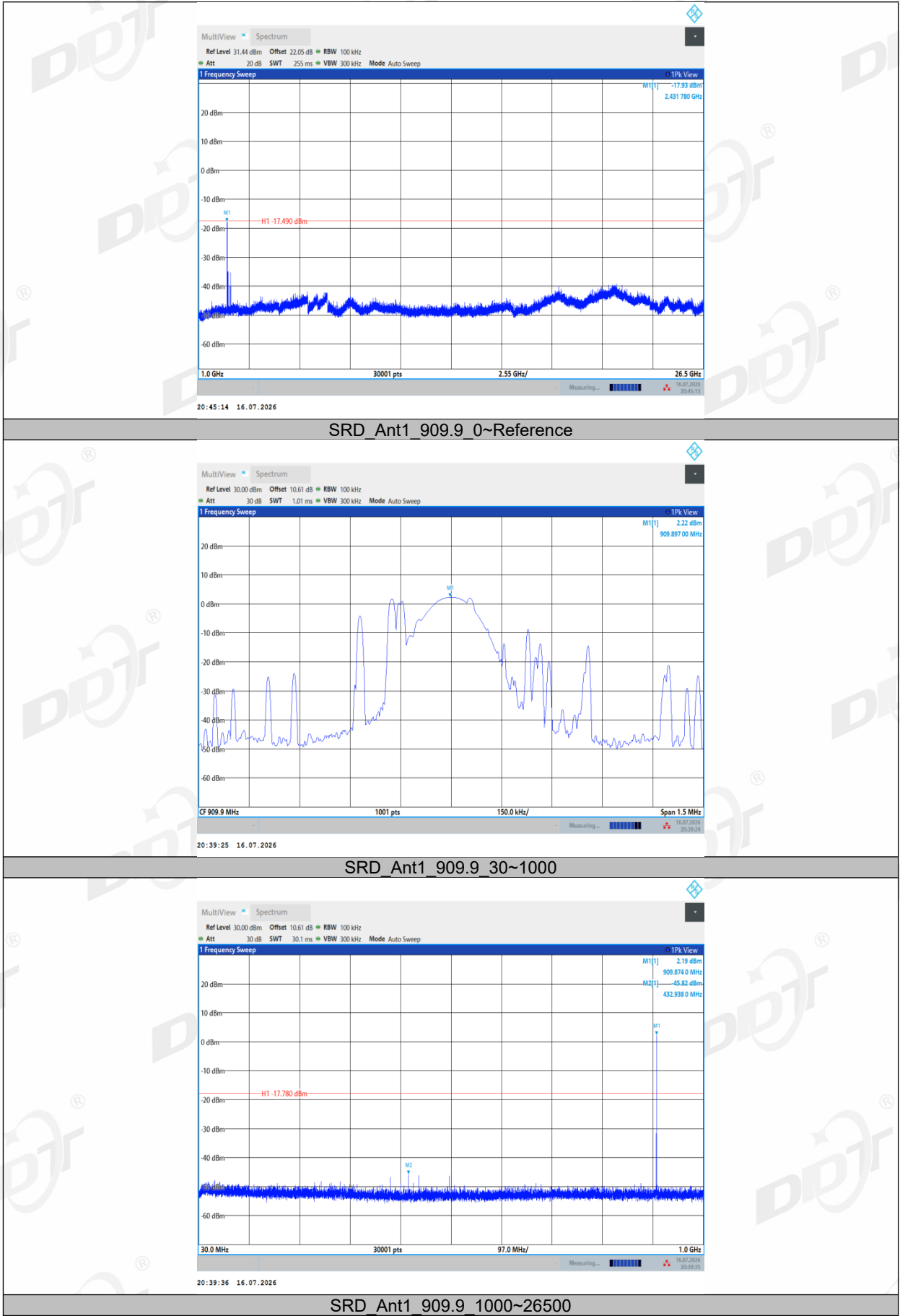
11.4. Test result

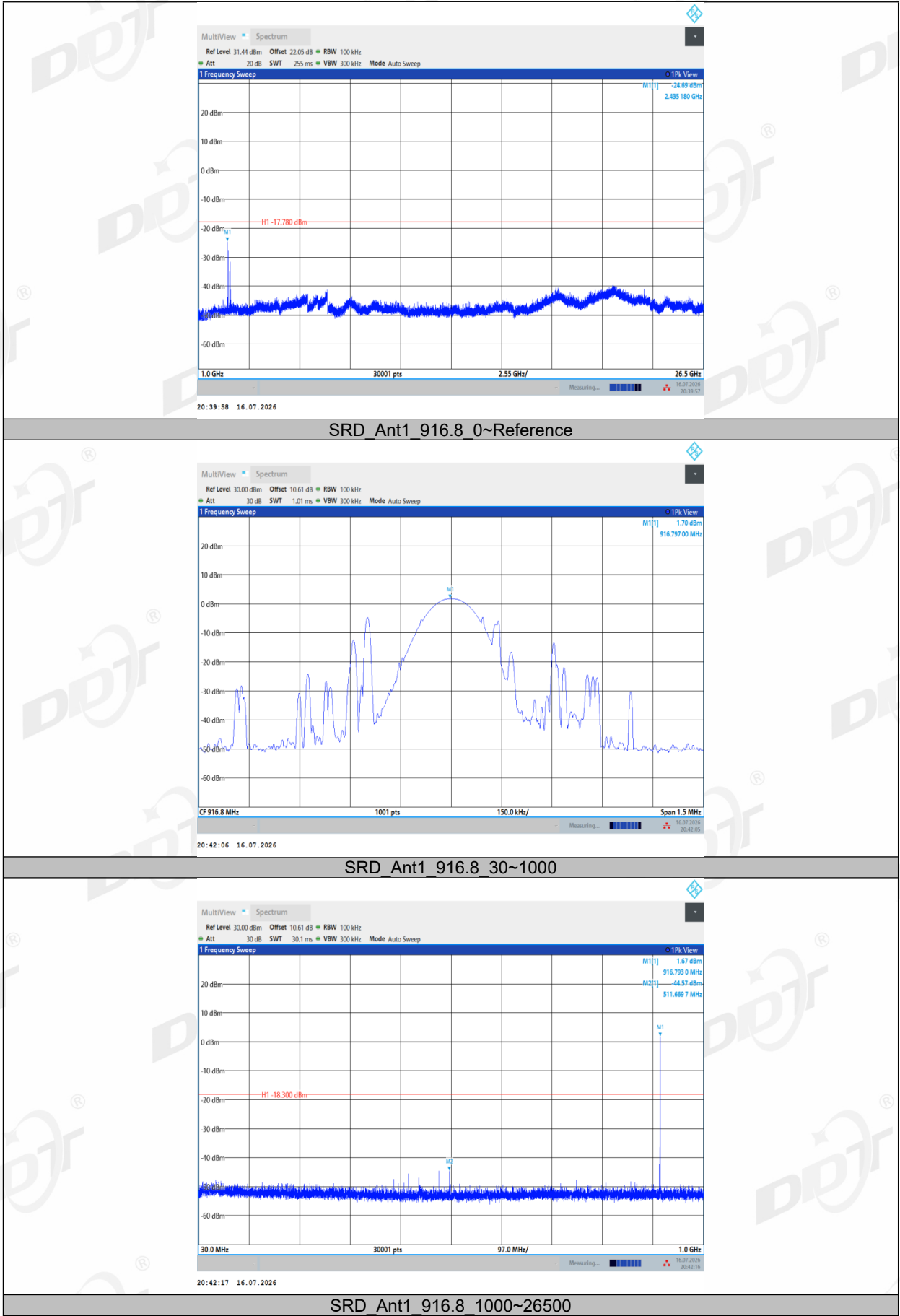
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

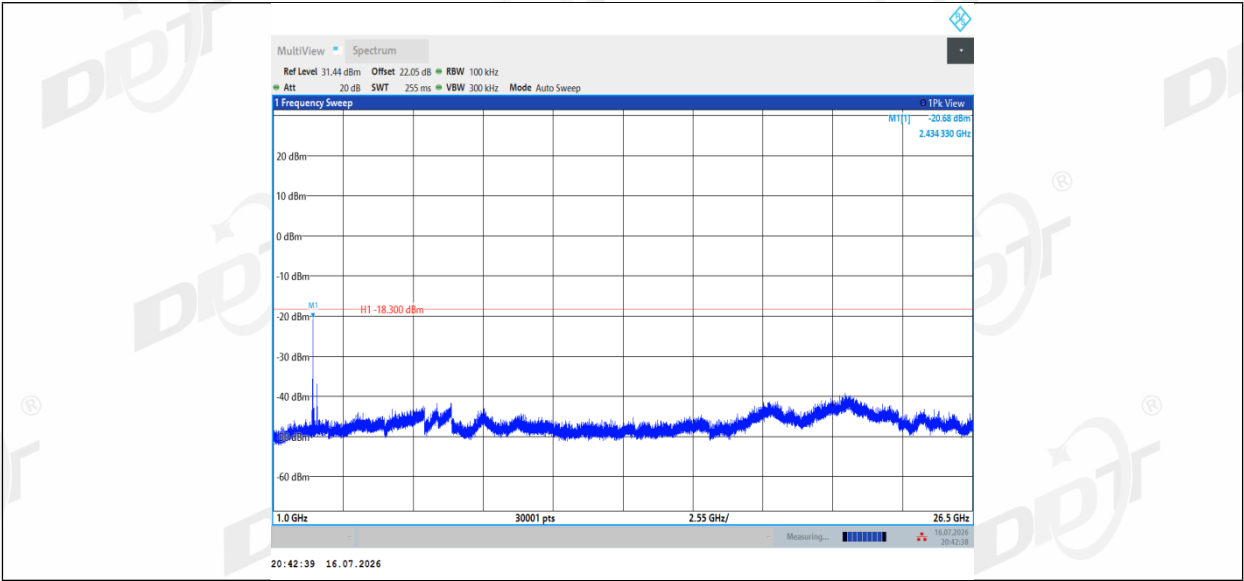
Mode	Freq. (MHz)	Verdict
SRD	Hopping off 903	Pass
	Hopping off 909.9	Pass
	Hopping off 916.8	Pass

11.5. Test graphs



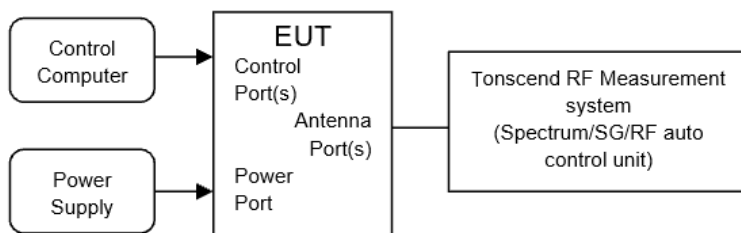






12. Duty cycle

12.1. Block diagram of test setup



12.2. Limit

Just for Report.

12.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

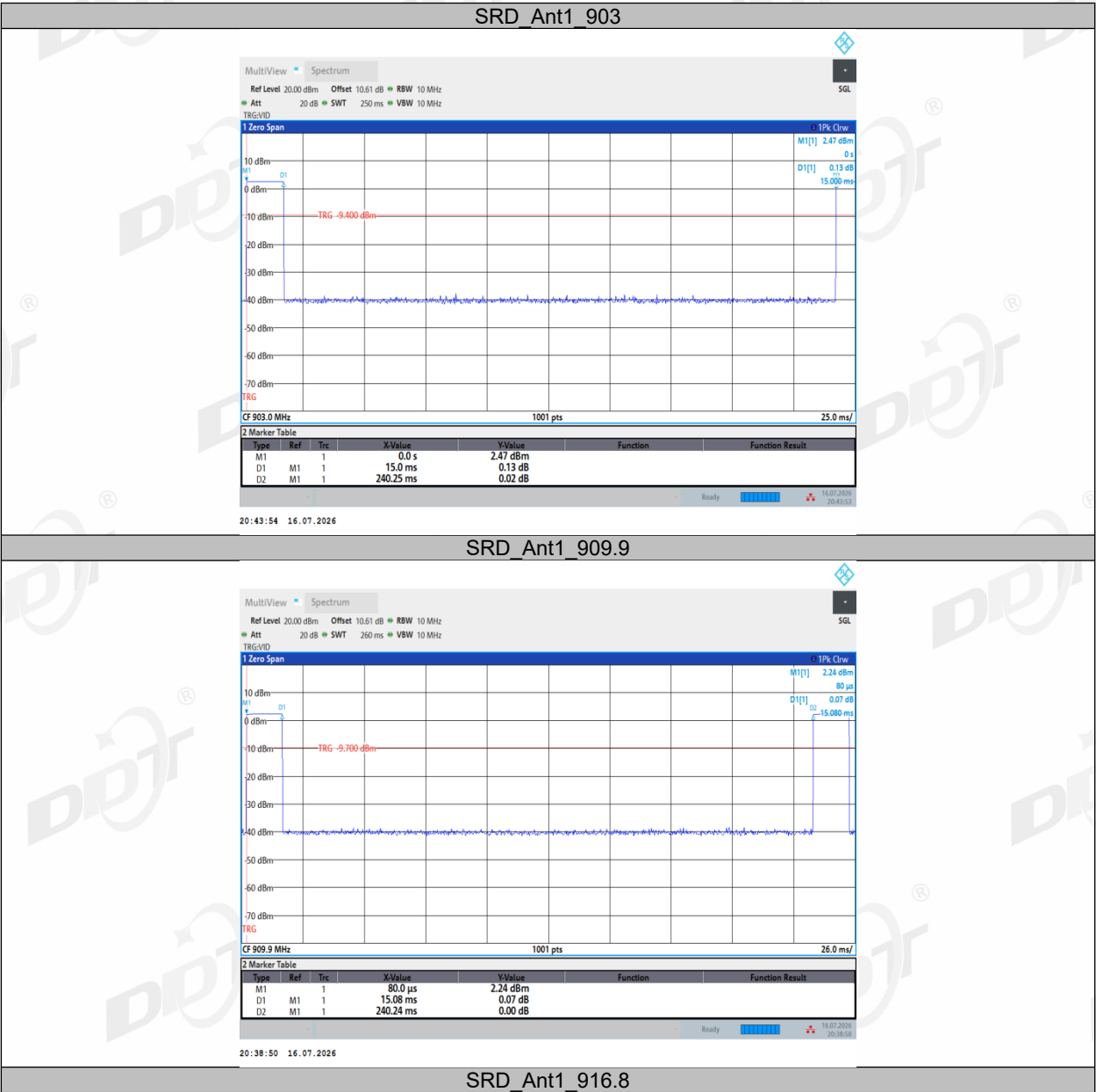
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

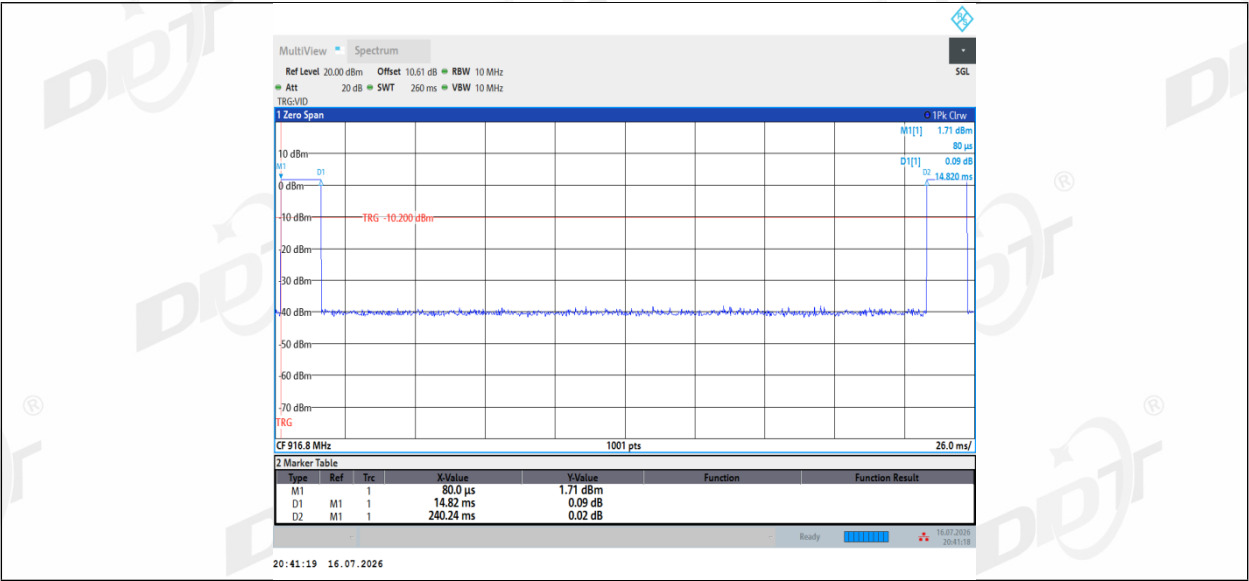
12.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	25.6°C,46.1%RH	Test Date:	2026.07.16
Test Power Supply:	DC 5V	Sample Number:	S25120143-001

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	903	15.00	240.25	6.24	12.05
		909.9	15.08	240.24	6.28	12.02
		916.8	14.82	240.24	6.17	12.10

12.5. Test graphs





13. Antenna Requirements

13.1. 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.

13.2. Result

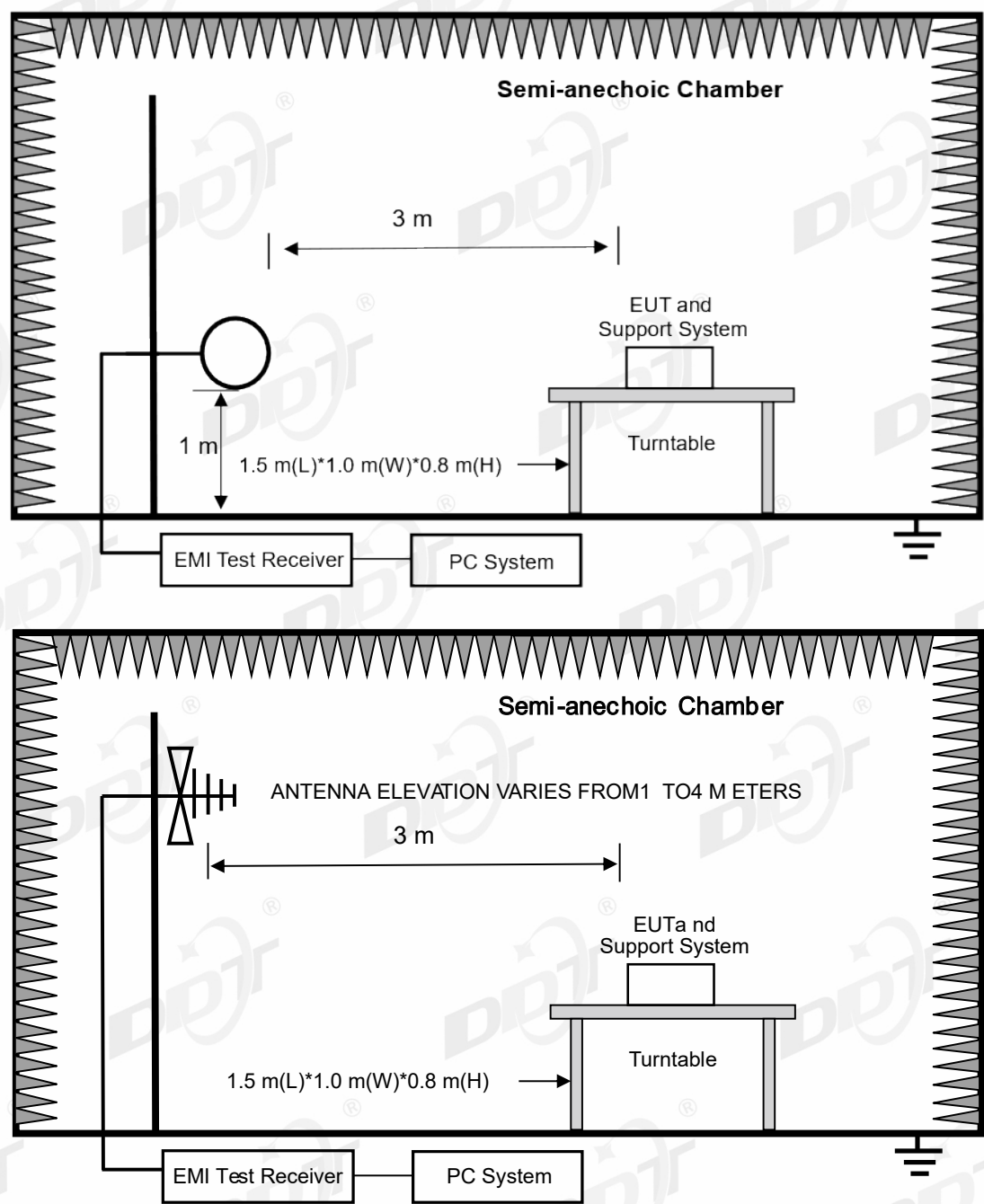
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

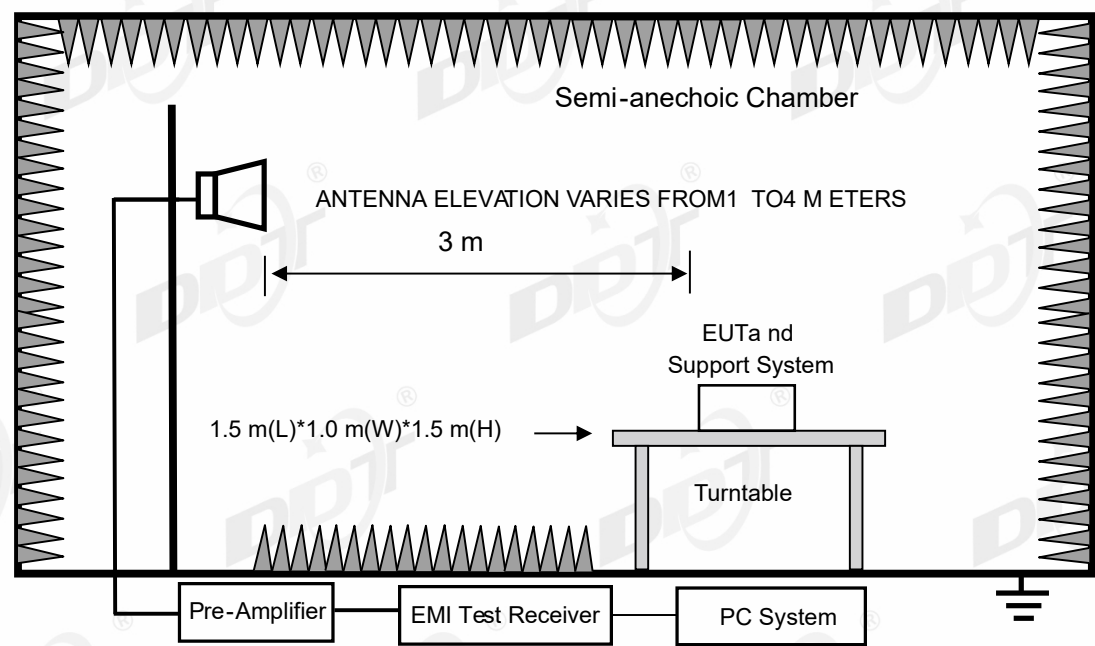
14. Radiated Emission

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2027/07/10
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2027/07/10
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2027/06/25
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Signal & Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2027/07/10
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2027/06/25
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE (V5.0.0)	DDT-ZC06466	/

14.2. Block diagram of test setup





14.3. 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
10.495-0.505	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:

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

(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.

14.4. Assistant equipment used for test

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

14.5. 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 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 GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is record and 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.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

ANT1 SRD 903MHz TX Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

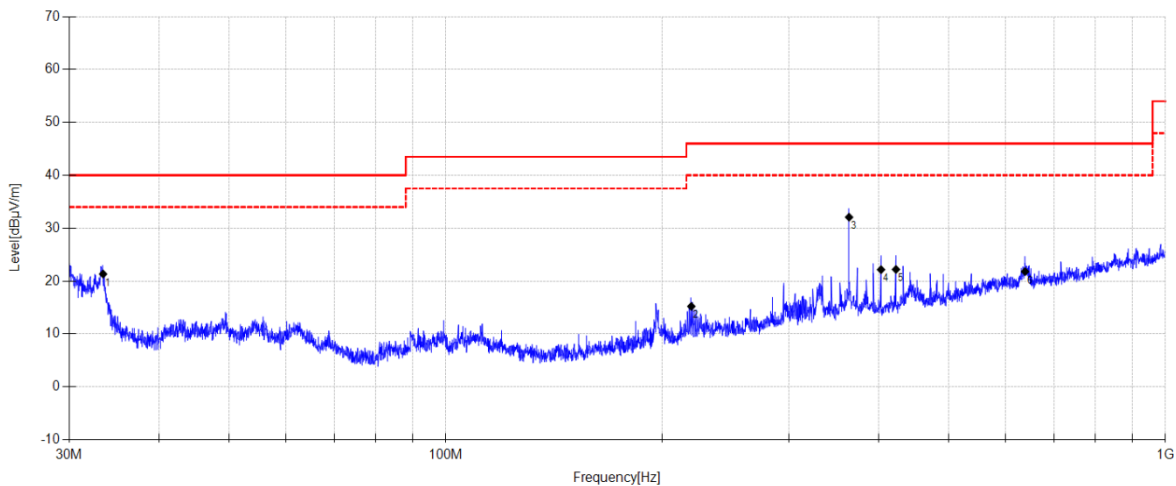
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC BELOW 1G SRD\16

Memo:

Sample Number:S25120143-004



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	33.421	38.73	11.07	3.83	21.33	40.00	18.67	QP	Horizontal
2	219.449	31.43	11.21	4.96	15.20	46.00	30.80	QP	Horizontal
3	363.568	43.81	15.17	5.55	32.07	46.00	13.93	QP	Horizontal
4	402.758	33.82	15.11	5.72	22.15	46.00	23.85	QP	Horizontal
5	422.427	33.27	15.66	5.78	22.19	46.00	23.81	QP	Horizontal
6	638.426	29.15	19.10	6.49	21.79	46.00	24.21	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:

2026-07-14

Tested By:

Li Xiongbin

Test Mode:

ANT1 SRD 903MHz TX Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

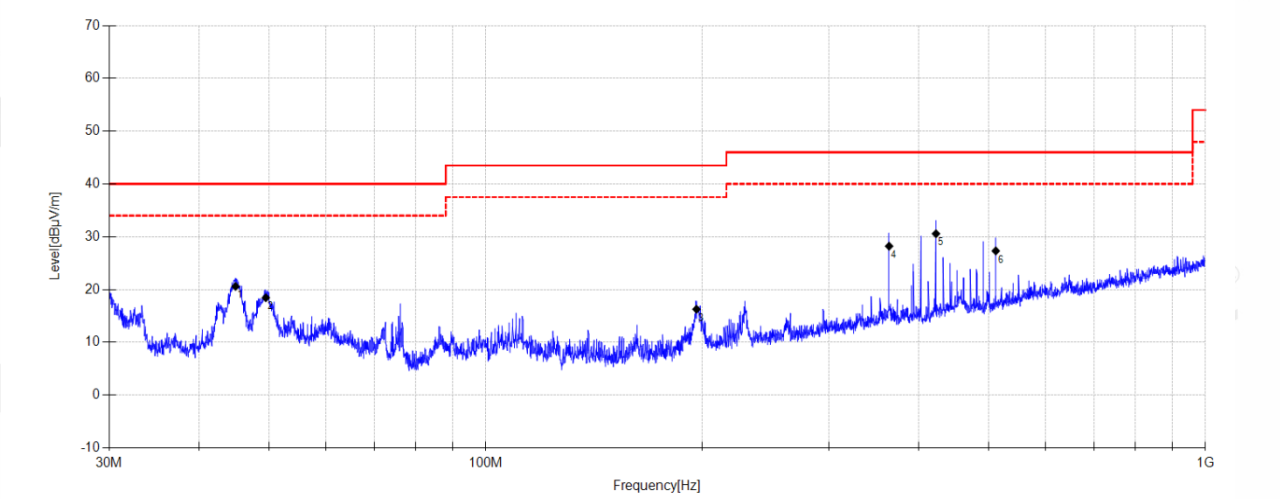
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC BELOW 1G SRD\17

Memo:

Sample Number:S25120143-004



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	44.928	35.53	13.40	3.95	20.58	40.00	19.42	QP	Vertical
2	49.493	33.25	13.50	3.98	18.43	40.00	21.57	QP	Vertical
3	196.298	33.44	10.36	4.86	16.26	43.50	27.24	QP	Vertical
4	363.568	39.95	15.17	5.55	28.21	46.00	17.79	QP	Vertical
5	422.427	41.65	15.66	5.78	30.57	46.00	15.43	QP	Vertical
6	511.545	37.16	16.70	6.08	27.31	46.00	18.69	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

ANT2 SRD 903MHz TX Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

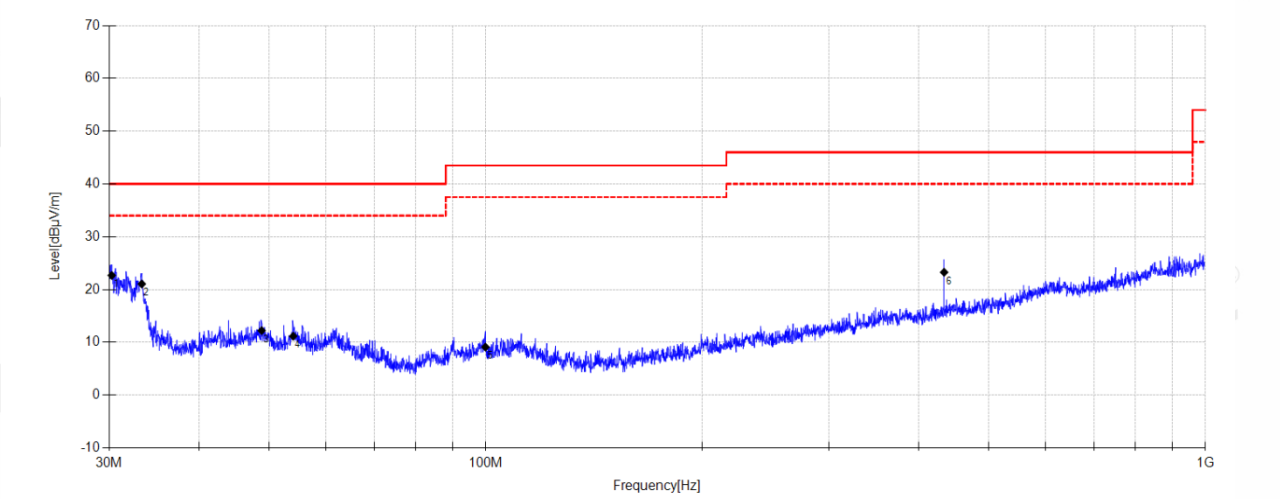
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC BELOW 1G SRD\18

Memo:

Sample Number:S25120143-004



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	30.232	40.74	10.45	3.78	22.67	40.00	17.33	QP	Horizontal
2	33.280	38.51	11.01	3.83	21.05	40.00	18.95	QP	Horizontal
3	48.838	27	13.54	3.97	12.21	40.00	27.79	QP	Horizontal
4	54.027	26.06	13.38	4.01	11.15	40.00	28.85	QP	Horizontal
5	99.924	25.14	11.95	4.30	9.09	43.50	34.41	QP	Horizontal
6	433.529	33.89	16.08	5.82	23.26	46.00	22.74	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

ANT2 SRD 903MHz TX Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

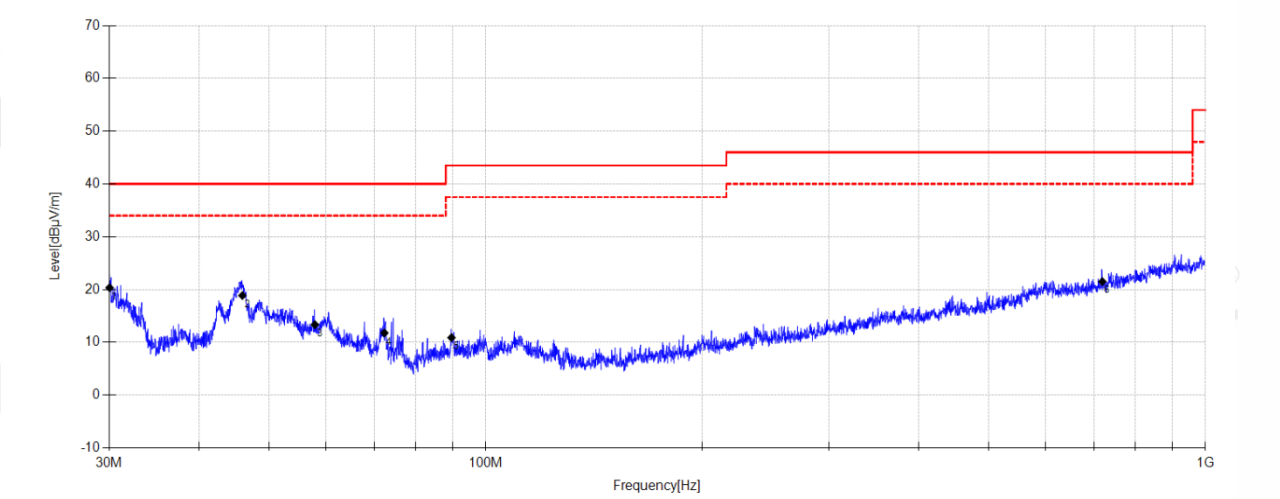
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC BELOW 1G SRD\19

Memo:

Sample Number:S25120143-004



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	30.021	38.36	10.50	3.78	20.34	40.00	19.66	QP	Vertical
2	45.916	34.17	13.03	3.96	18.86	40.00	21.14	QP	Vertical
3	57.910	28.63	12.97	4.04	13.34	40.00	26.66	QP	Vertical
4	72.325	30.49	9.40	4.17	11.76	40.00	28.24	QP	Vertical
5	89.633	29.48	9.44	4.25	10.87	43.50	32.63	QP	Vertical
6	719.247	28.01	19.78	6.69	21.50	46.00	24.50	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

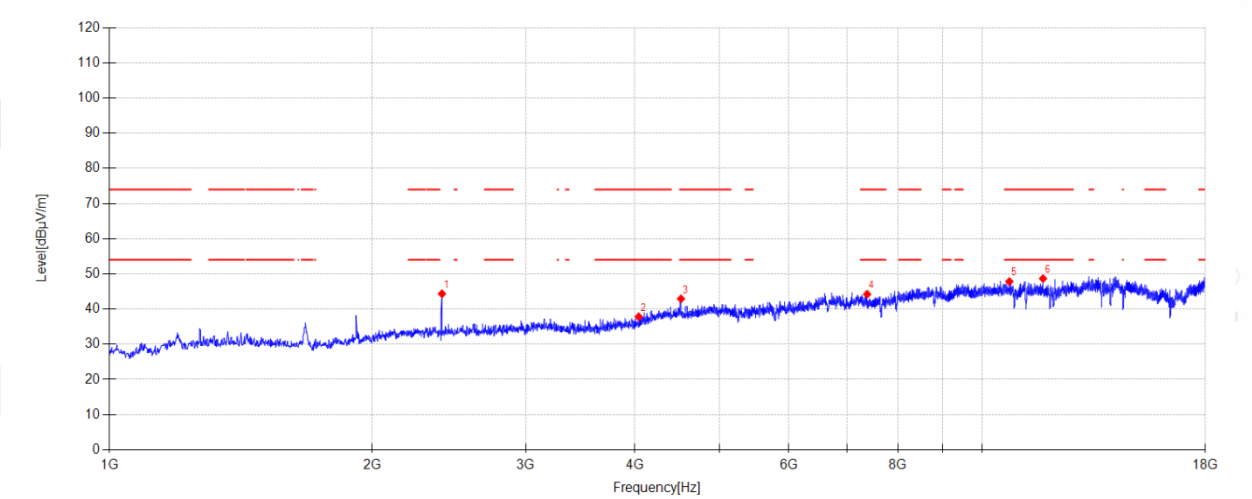
Test Date:2026-07-16Tested By:Zhong Nan

Test Mode:ANT1 TX SRD 903.00MHz ModePower Supply:DC 5V

Condition:Temp:23.6°C;Humi:56.3%Test Site:4# Fully Anechoic Room

File Path:d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\1

Memo:Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2404.200	63.60	28.22	-47.47	44.35	-	-	PK	Horizontal
2	4039.600	53.06	31.60	-46.85	37.81	74.00	36.19	PK	Horizontal
3	4515.600	55.07	32.30	-44.45	42.92	74.00	31.08	PK	Horizontal
4	7378.400	52.07	37.29	-45.14	44.22	74.00	29.78	PK	Horizontal
5	10735.900	50.74	40.00	-42.89	47.85	74.00	26.15	PK	Horizontal
6	11732.100	50.76	39.50	-41.60	48.66	74.00	25.34	PK	Horizontal

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT1 TX SRD 903.00MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

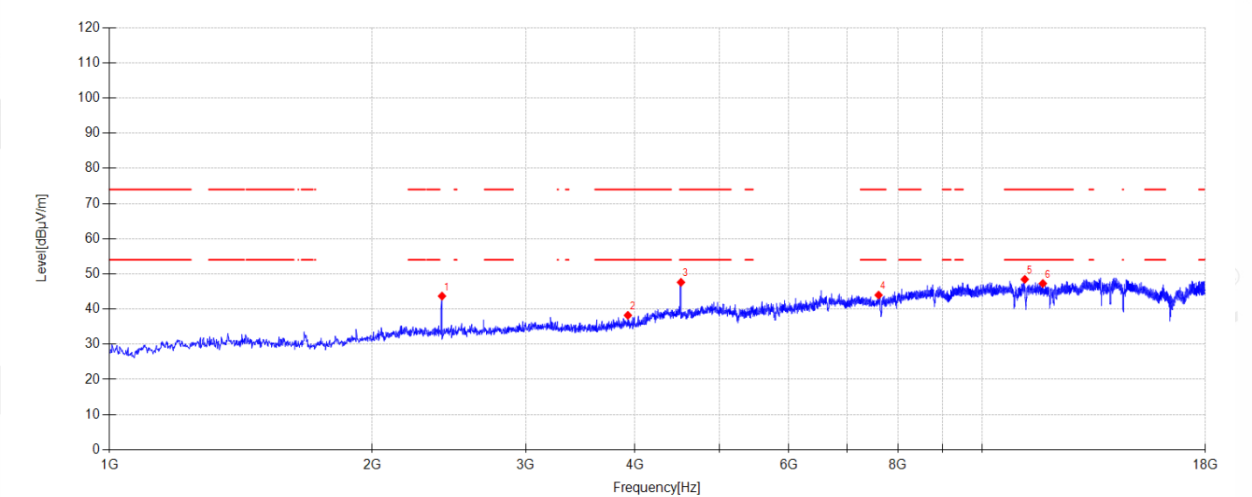
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\2

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2404.200	62.94	28.22	-47.47	43.69	-	-	PK	Vertical
2	3925.700	54.02	31.65	-47.44	38.23	74.00	35.77	PK	Vertical
3	4515.600	59.75	32.30	-44.45	47.60	74.00	26.40	PK	Vertical
4	7604.500	51.95	37.21	-45.18	43.98	74.00	30.02	PK	Vertical
5	11181.300	50.23	39.86	-41.64	48.45	74.00	25.55	PK	Vertical
6	11727.000	49.36	39.50	-41.59	47.27	74.00	26.73	PK	Vertical

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 903.0MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

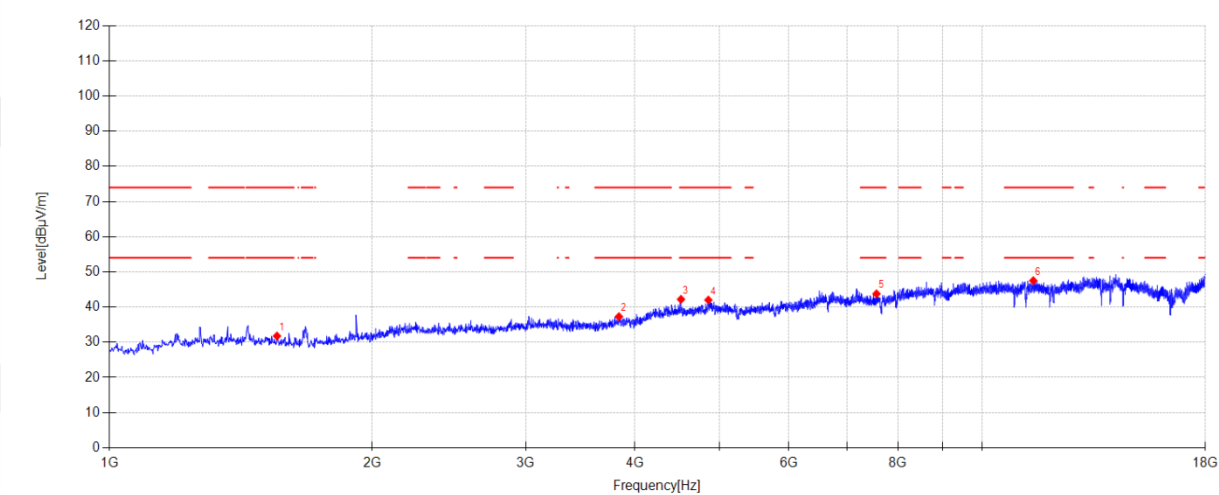
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\3

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1555.900	55.38	25.98	-49.58	31.78	74.00	42.22	PK	Horizontal
2	3833.900	53.37	31.40	-47.48	37.29	74.00	36.71	PK	Horizontal
3	4515.600	54.35	32.30	-44.45	42.20	74.00	31.80	PK	Horizontal
4	4853.900	52.74	33.41	-44.15	42.00	74.00	32.00	PK	Horizontal
5	7562.000	51.81	37.12	-45.16	43.77	74.00	30.23	PK	Horizontal
6	11434.600	49.00	39.93	-41.42	47.51	74.00	26.49	PK	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 903.0MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

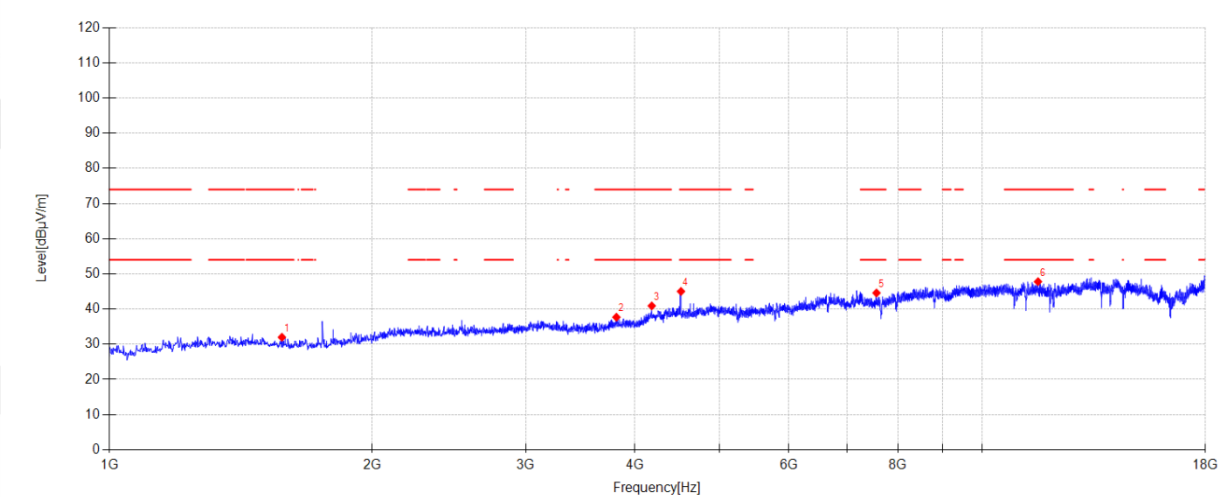
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\4

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1576.300	55.66	25.89	-49.56	31.99	74.00	42.01	PK	Vertical
2	3808.400	53.92	31.25	-47.47	37.70	74.00	36.30	PK	Vertical
3	4180.700	54.16	31.82	-45.07	40.91	74.00	33.09	PK	Vertical
4	4515.600	57.18	32.30	-44.45	45.03	74.00	28.97	PK	Vertical
5	7562.000	52.62	37.12	-45.16	44.58	74.00	29.42	PK	Vertical
6	11577.400	49.62	39.65	-41.48	47.79	74.00	26.21	PK	Vertical

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT1 TX SRD 909.9MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

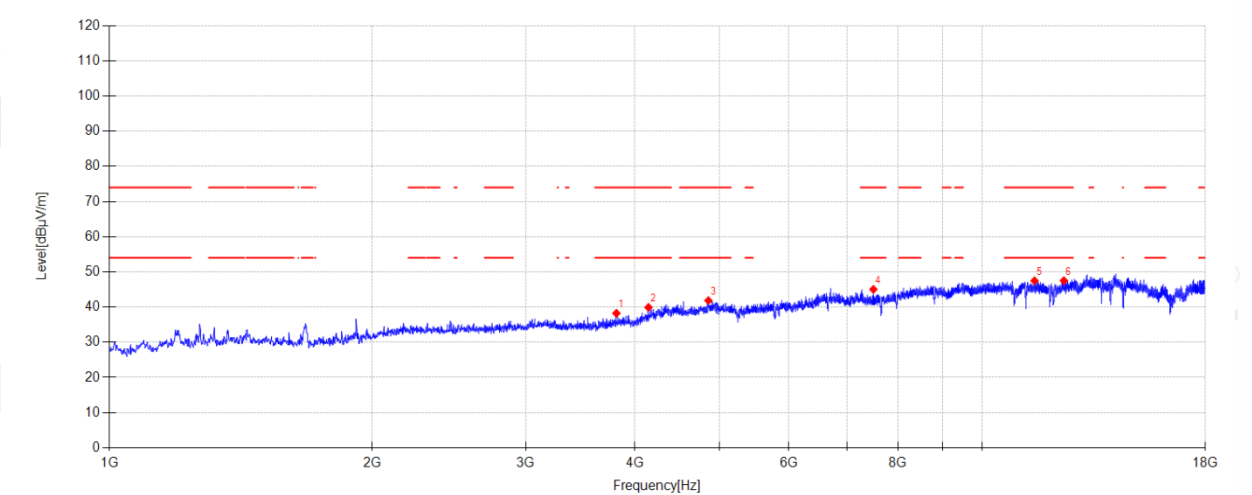
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\5

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3808.400	54.46	31.25	-47.47	38.24	74.00	35.76	PK	Horizontal
2	4145.000	53.79	31.69	-45.56	39.92	74.00	34.08	PK	Horizontal
3	4853.900	52.59	33.41	-44.15	41.85	74.00	32.15	PK	Horizontal
4	7500.800	53.08	37.10	-45.14	45.04	74.00	28.96	PK	Horizontal
5	11472.000	48.98	39.86	-41.35	47.49	74.00	26.51	PK	Horizontal
6	12395.100	48.28	39.70	-40.47	47.51	74.00	26.49	PK	Horizontal

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT1 TX SRD 909.9MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

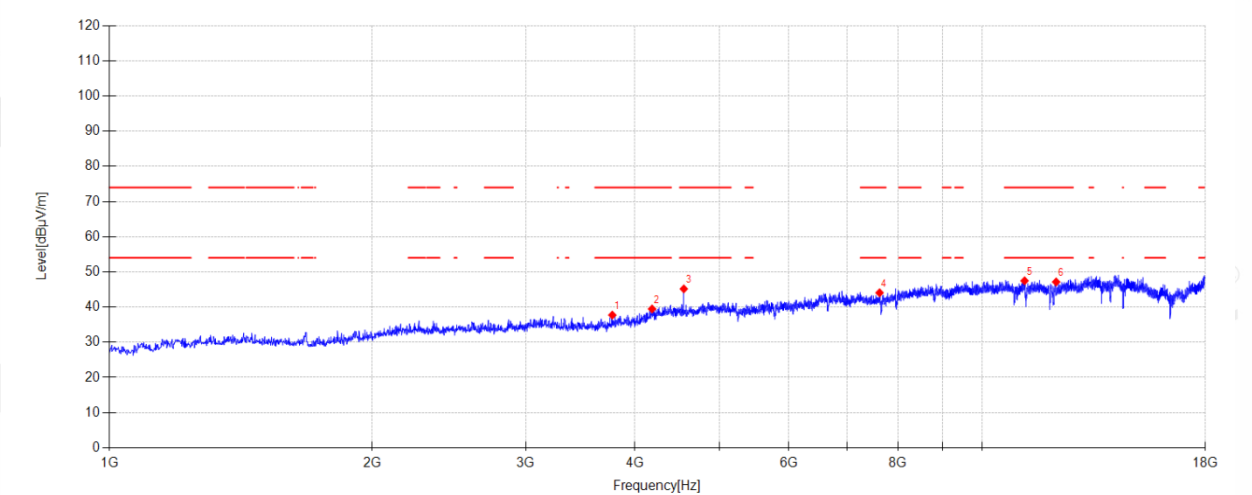
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\6

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3767.600	54.24	31.01	-47.52	37.73	74.00	36.27	PK	Vertical
2	4184.100	52.66	31.84	-45.03	39.47	74.00	34.53	PK	Vertical
3	4549.600	57.42	32.30	-44.54	45.18	74.00	28.82	PK	Vertical
4	7623.200	51.99	37.25	-45.17	44.07	74.00	29.93	PK	Vertical
5	11174.500	49.30	39.85	-41.67	47.48	74.00	26.52	PK	Vertical
6	12145.200	48.16	39.90	-40.91	47.15	74.00	26.85	PK	Vertical

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 909.9MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

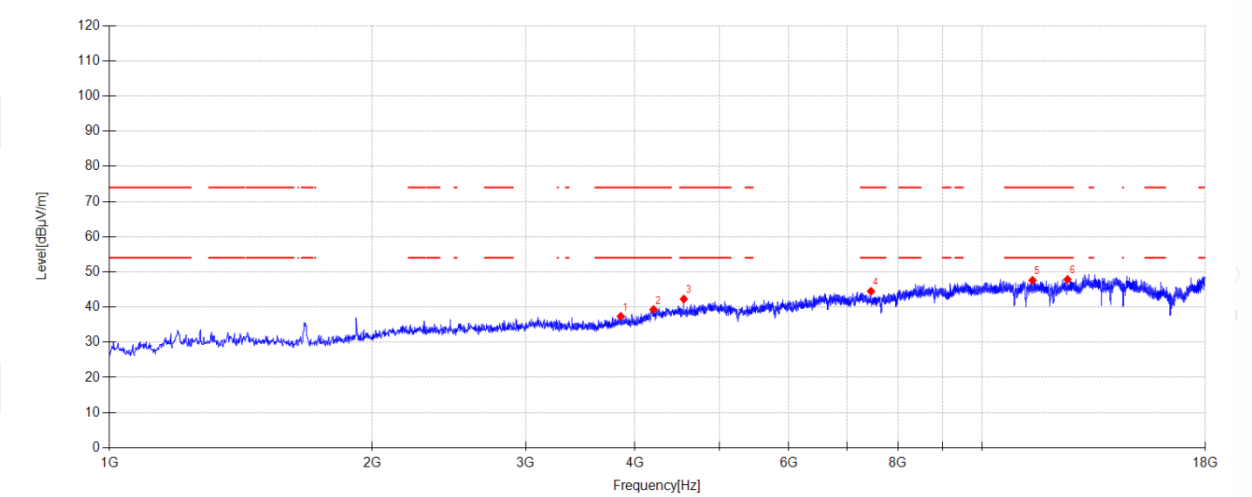
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\7

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3852.600	53.34	31.51	-47.48	37.37	74.00	36.63	PK	Horizontal
2	4201.100	52.24	31.90	-44.81	39.33	74.00	34.67	PK	Horizontal
3	4549.600	54.53	32.30	-44.54	42.29	74.00	31.71	PK	Horizontal
4	7453.200	52.51	37.10	-45.12	44.49	74.00	29.51	PK	Horizontal
5	11410.800	49.09	39.98	-41.47	47.60	74.00	26.40	PK	Horizontal
6	12515.800	48.73	39.83	-40.71	47.85	74.00	26.15	PK	Horizontal

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 909.9MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

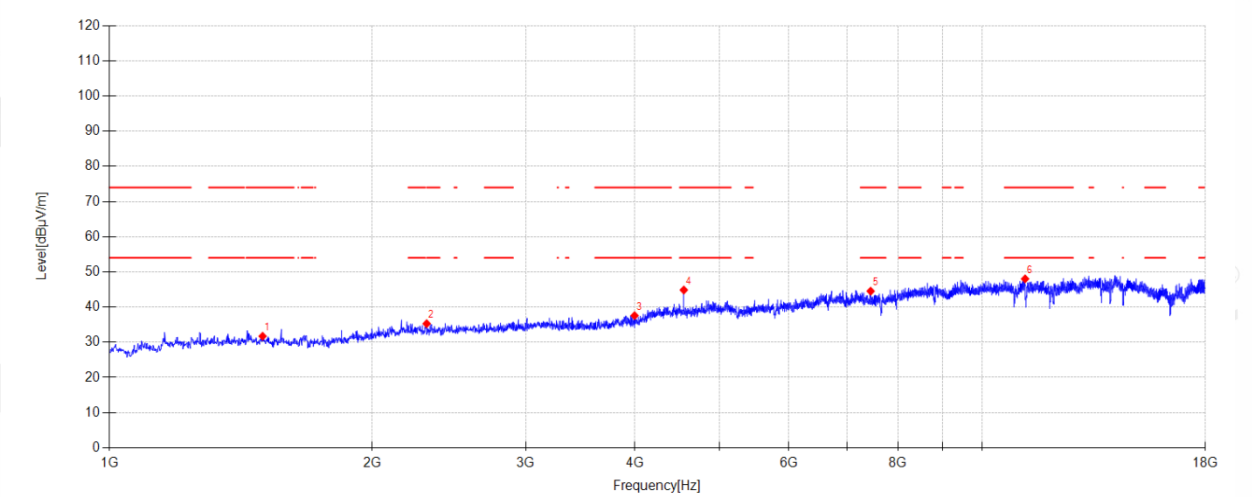
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\8

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1498.100	55.13	26.20	-49.62	31.71	74.00	42.29	PK	Vertical
2	2309.000	54.70	28.10	-47.52	35.28	-	-	PK	Vertical
3	3995.400	53.28	31.61	-47.31	37.58	74.00	36.42	PK	Vertical
4	4549.600	57.09	32.30	-44.54	44.85	74.00	29.15	PK	Vertical
5	7446.400	52.53	37.11	-45.11	44.53	74.00	29.47	PK	Vertical
6	11189.800	49.75	39.88	-41.61	48.02	74.00	25.98	PK	Vertical

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

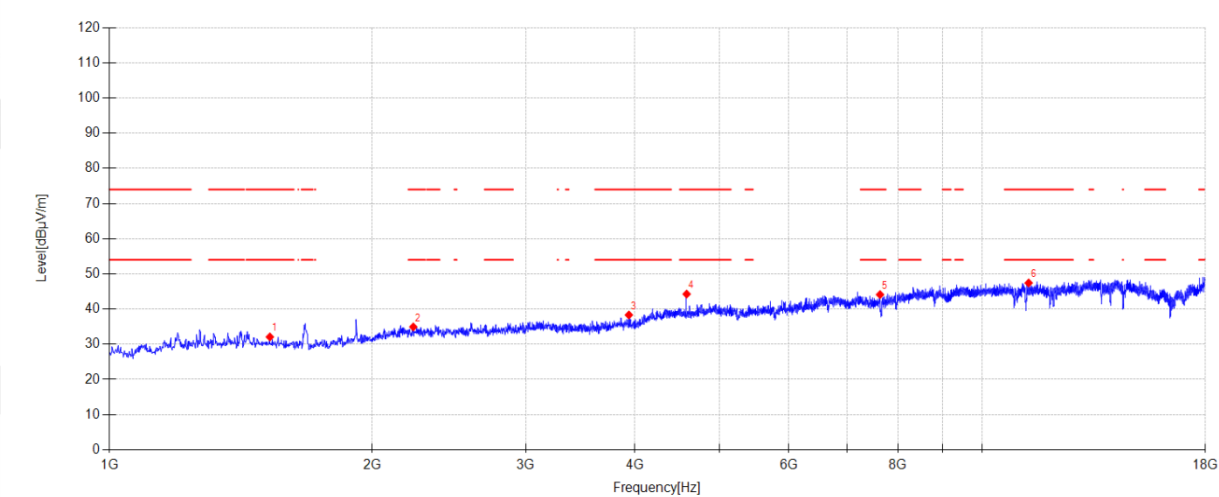
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\9

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1527.000	55.59	26.09	-49.60	32.08	74.00	41.92	PK	Horizontal
2	2229.100	54.40	28.10	-47.57	34.93	74.00	39.07	PK	Horizontal
3	3935.900	54.07	31.67	-47.42	38.32	74.00	35.68	PK	Horizontal
4	4583.600	56.53	32.37	-44.63	44.27	74.00	29.73	PK	Horizontal
5	7633.400	52.00	37.27	-45.16	44.11	74.00	29.89	PK	Horizontal
6	11295.200	48.76	40.00	-41.33	47.43	74.00	26.57	PK	Horizontal

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT2 TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

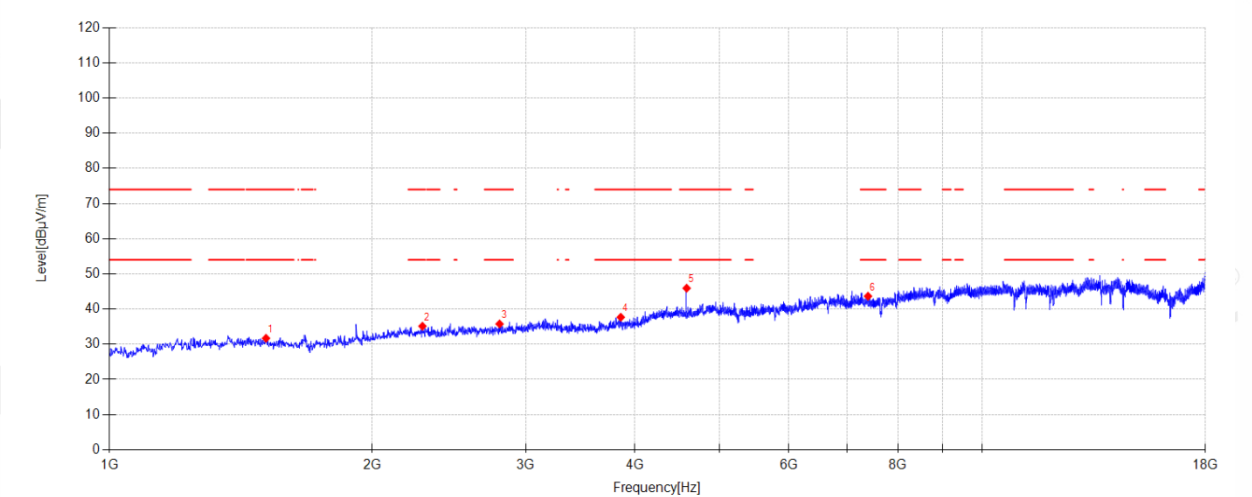
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\10

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1511.700	55.16	26.15	-49.61	31.70	74.00	42.30	PK	Vertical
2	2283.500	54.57	28.10	-47.54	35.13	74.00	38.87	PK	Vertical
3	2798.600	53.96	29.09	-47.27	35.78	74.00	38.22	PK	Vertical
4	3852.600	53.65	31.51	-47.48	37.68	74.00	36.32	PK	Vertical
5	4583.600	58.20	32.37	-44.63	45.94	74.00	28.06	PK	Vertical
6	7395.400	51.54	37.22	-45.10	43.66	74.00	30.34	PK	Vertical

Note:

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT1 TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

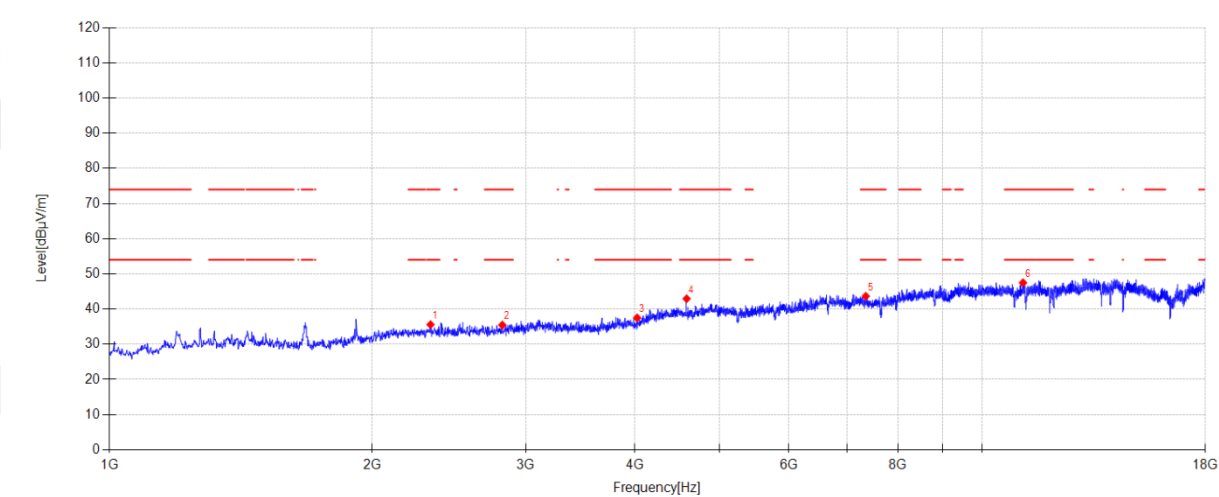
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\11

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2332.800	55.00	28.10	-47.51	35.59	74.00	38.41	PK	Horizontal
2	2819.000	53.58	29.14	-47.26	35.46	74.00	38.54	PK	Horizontal
3	4022.600	52.93	31.60	-47.04	37.49	74.00	36.51	PK	Horizontal
4	4583.600	55.20	32.37	-44.63	42.94	74.00	31.06	PK	Horizontal
5	7351.200	51.45	37.40	-45.20	43.65	74.00	30.35	PK	Horizontal
6	11128.600	49.56	39.76	-41.84	47.48	74.00	26.52	PK	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-07-16

Tested By:

Zhong Nan

Test Mode:

ANT1 TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.6°C;Humi:56.3%

Test Site:

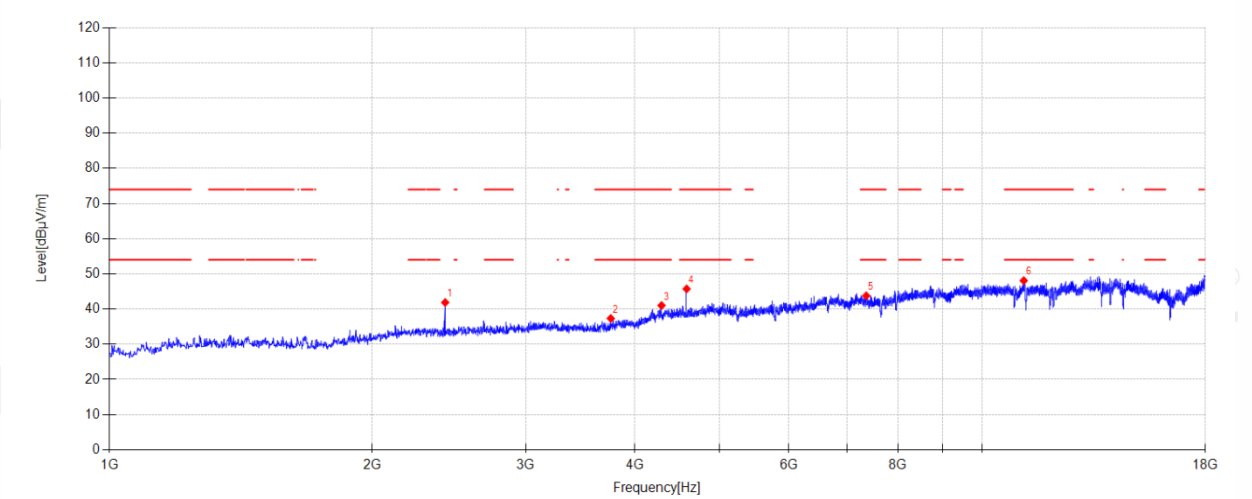
4# Fully Anechoic Room

File Path:

d:\ts\2025 report date\Q25120143-1E\FCC ABOVE1G SRD\12

Memo:

Sample Number:S25120143-001 Power Setting:NA



Suspected Data List									
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2424.600	61.03	28.30	-47.46	41.87	-	-	PK	Vertical
2	3752.300	53.98	30.91	-47.55	37.34	74.00	36.66	PK	Vertical
3	4289.500	53.80	32.08	-44.86	41.02	74.00	32.98	PK	Vertical
4	4583.600	57.99	32.37	-44.63	45.73	74.00	28.27	PK	Vertical
5	7359.700	51.60	37.36	-45.18	43.78	74.00	30.22	PK	Vertical
6	11150.700	50.04	39.80	-41.76	48.08	74.00	25.92	PK	Vertical

Note:

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

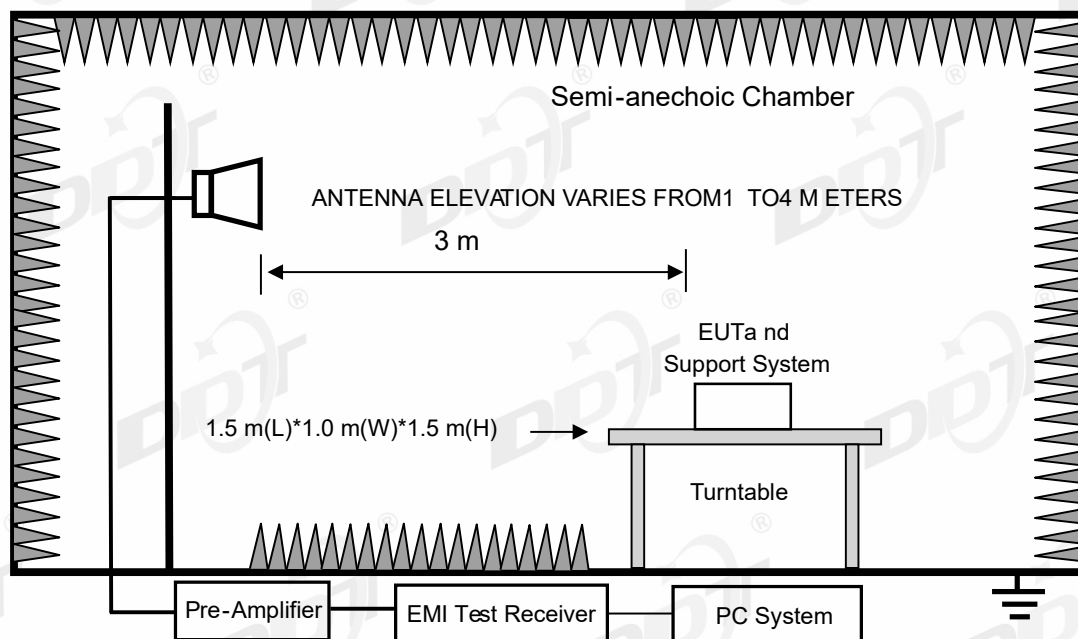
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Band Edge Compliance

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2027/07/10
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2027/07/10
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2027/06/25
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10

15.2. Block diagram of test setup



15.3. 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.

15.4. Assistant equipment used for test

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

15.5. 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.

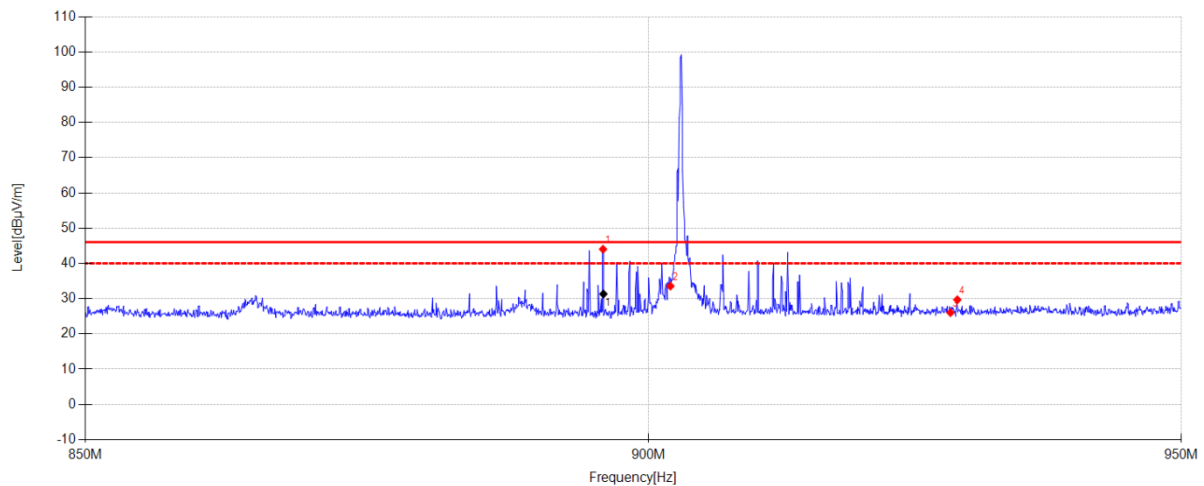
15.6. Test result

PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-07-14 **Tested By:** Li Xiongbin
Test Mode: TX SRD 903.0MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.7°C;Humi:57.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\1
Memo: ANT1 Sample Number:S25120143-001



Suspected Data List

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	895.85	47.36	21.49	7.10	-31.92	44.03	46.00	1.97	PK	Horizontal
2	902.00	36.26	22.06	7.12	-31.89	33.55	46.00	12.45	PK	Horizontal
3	928.00	28.63	21.94	7.18	-31.73	26.02	46.00	19.98	PK	Horizontal
4	928.65	32.31	21.93	7.18	-31.73	29.69	46.00	16.31	PK	Horizontal

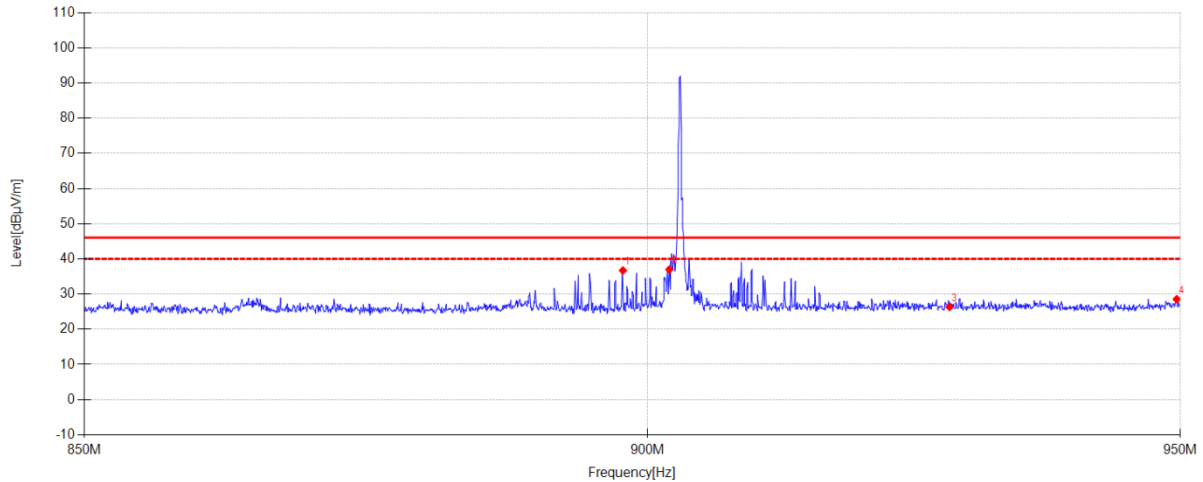
Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	895.887	34.65	21.49	7.10	31.32	46.00	14.68	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: 2026-07-14**Tested By:** Li Xiongbín**Test Mode:** TX SRD 903.0MHz Mode**Power Supply:** DC 5V**Condition:** Temp:22.7°C;Humi:57.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\2**Memo:** ANT1 Sample Number:S25120143-001**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	897.75	39.83	21.68	7.11	-31.91	36.71	46.00	9.29	PK	Vertical
2	902.00	39.69	22.06	7.12	-31.89	36.98	46.00	9.02	PK	Vertical
3	928.00	28.98	21.94	7.18	-31.73	26.37	46.00	19.63	PK	Vertical
4	949.65	30.48	22.44	7.23	-31.60	28.55	46.00	17.45	PK	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

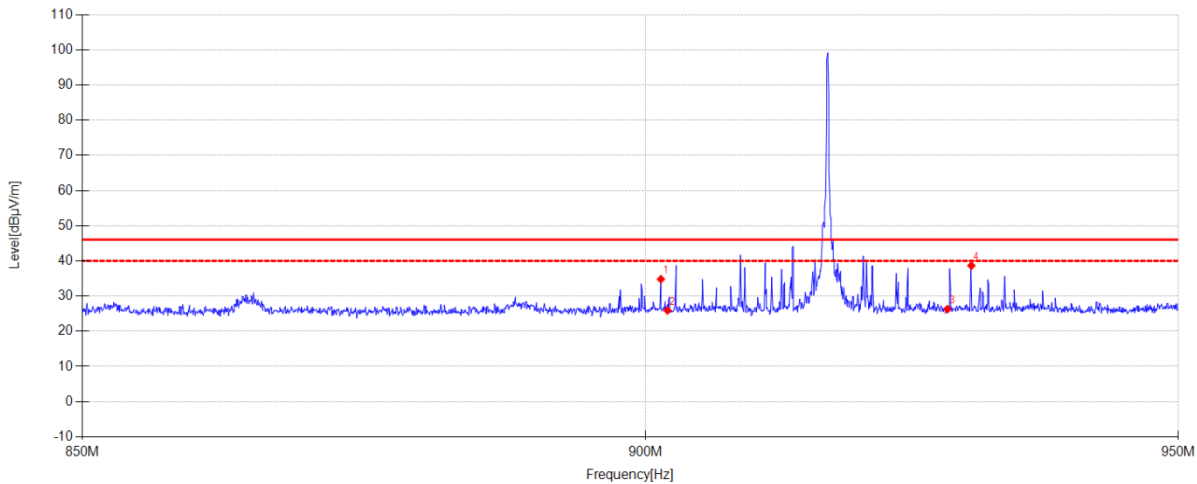
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\3

Memo:

ANT1 Sample Number:S25120143-001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	901.40	37.56	22.01	7.11	-31.89	34.79	46.00	11.21	PK	Horizontal
2	902.00	28.63	22.06	7.12	-31.89	25.92	46.00	20.08	PK	Horizontal
3	928.00	28.89	21.94	7.18	-31.73	26.28	46.00	19.72	PK	Horizontal
4	930.25	41.26	21.92	7.19	-31.72	38.65	46.00	7.35	PK	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

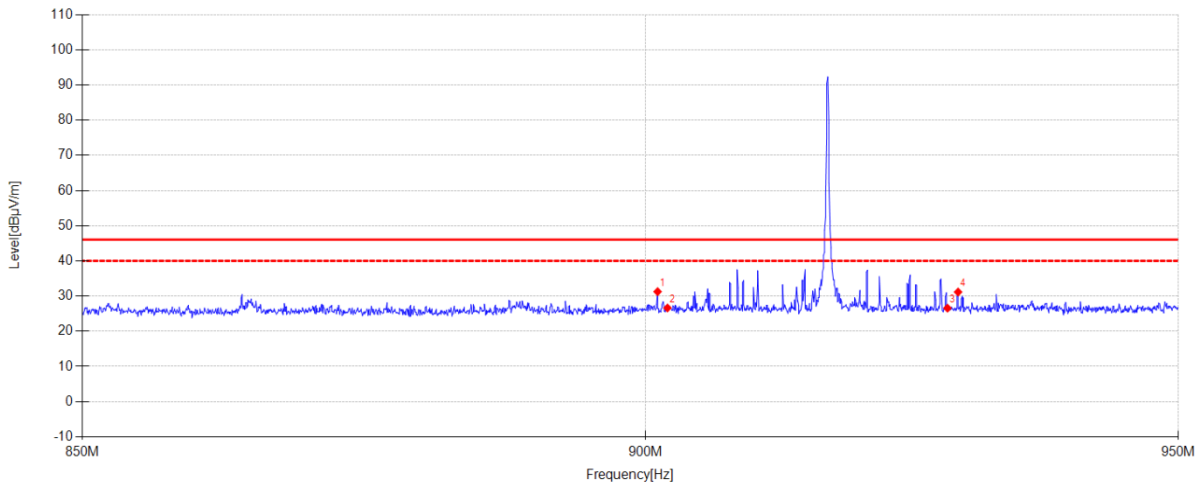
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\4

Memo:

ANT1 Sample Number:S25120143-001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	901.10	34.05	21.99	7.11	-31.89	31.26	46.00	14.74	PK	Vertical
2	902.00	29.34	22.06	7.12	-31.89	26.63	46.00	19.37	PK	Vertical
3	928.00	29.18	21.94	7.18	-31.73	26.57	46.00	19.43	PK	Vertical
4	929.00	33.78	21.92	7.18	-31.73	31.15	46.00	14.85	PK	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

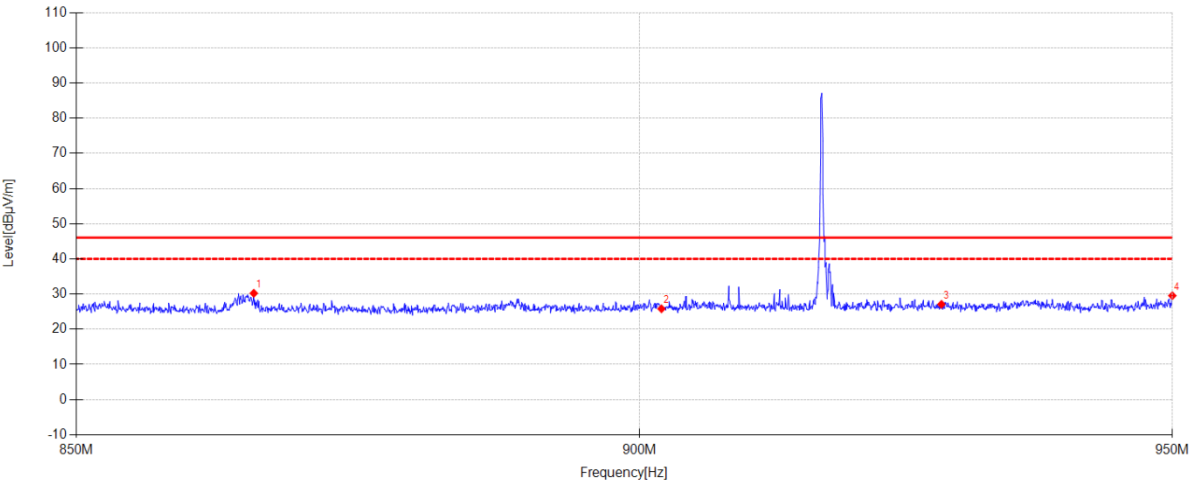
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\5

Memo:

ANT2 Sample Number:S25120143-001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	865.45	34.14	21.15	7.05	-32.11	30.23	46.00	15.77	PK	Horizontal
2	902.00	28.53	22.06	7.12	-31.89	25.82	46.00	20.18	PK	Horizontal
3	928.00	29.71	21.94	7.18	-31.73	27.10	46.00	18.90	PK	Horizontal
4	950.00	31.40	22.50	7.24	-31.60	29.54	46.00	16.46	PK	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:

2026-07-14

Tested By:

Li Xiongbn

Test Mode:

TX SRD 916.8MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

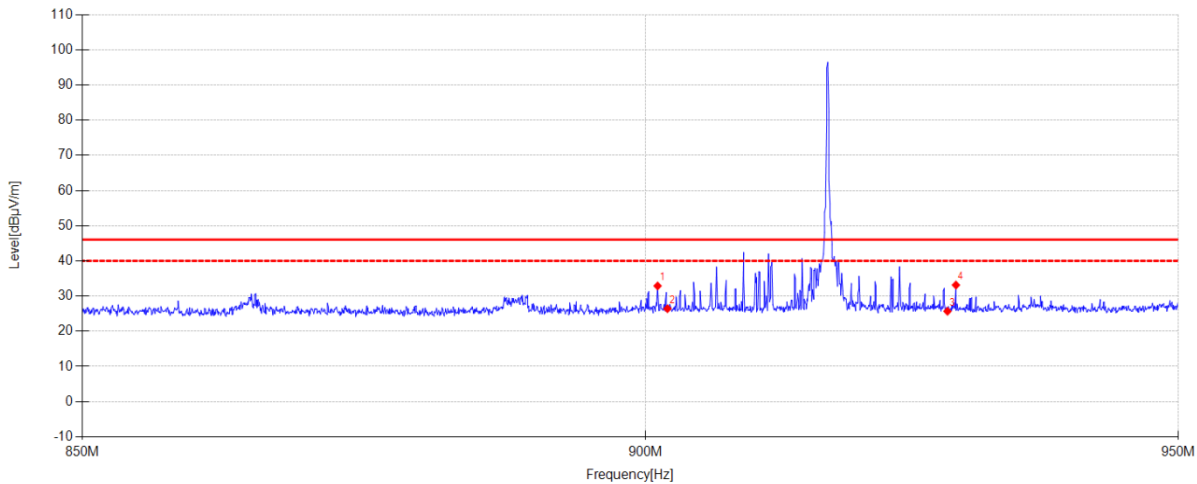
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\6

Memo:

ANT2 Sample Number:S25120143-001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	901.10	35.68	21.99	7.11	-31.89	32.89	46.00	13.11	PK	Vertical
2	902.00	29.12	22.06	7.12	-31.89	26.41	46.00	19.59	PK	Vertical
3	928.00	28.29	21.94	7.18	-31.73	25.68	46.00	20.32	PK	Vertical
4	928.80	35.76	21.92	7.18	-31.73	33.13	46.00	12.87	PK	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:

2026-07-14

Tested By:

Li Xiongbín

Test Mode:

TX SRD 903.0MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.7°C;Humi:57.2%

Test Site:

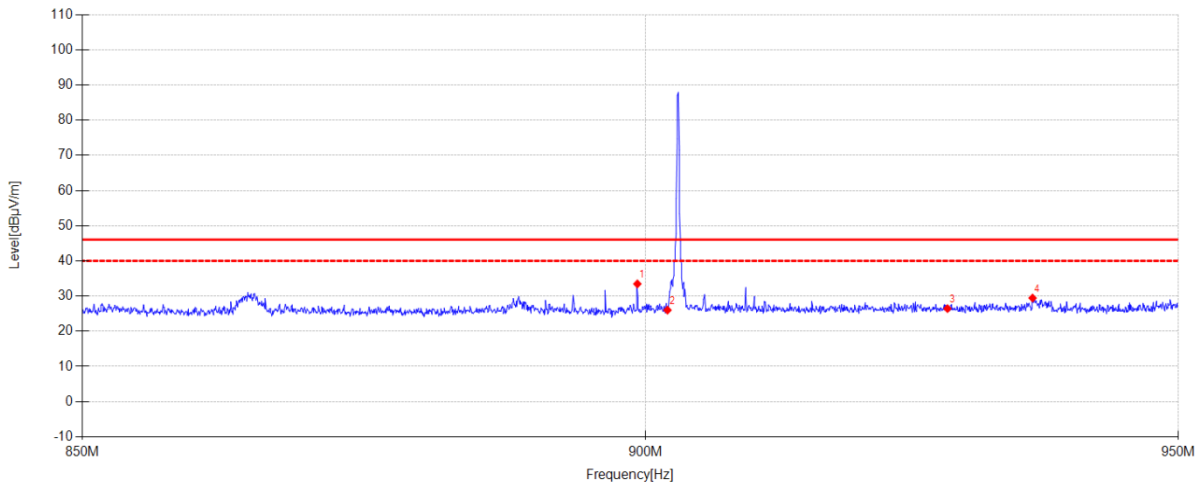
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\7

Memo:

ANT2 Sample Number:S25120143-001



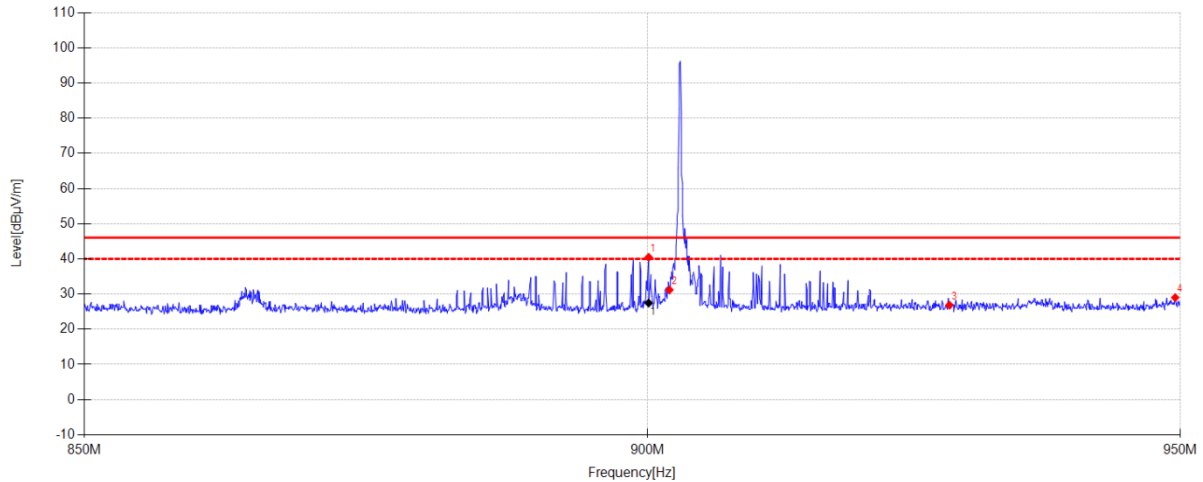
Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	899.25	36.42	21.83	7.11	-31.90	33.46	46.00	12.54	PK	Horizontal
2	902.00	28.72	22.06	7.12	-31.89	26.01	46.00	19.99	PK	Horizontal
3	928.00	29.05	21.94	7.18	-31.73	26.44	46.00	19.56	PK	Horizontal
4	936.05	31.81	22.12	7.20	-31.68	29.45	46.00	16.55	PK	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: 2026-07-14 **Tested By:** Li Xiongbin
Test Mode: TX SRD 903.0MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.7°C;Humi:57.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25120143-1E\0714 FCC Below 1G SRD\8
Memo: ANT2 Sample Number:S25120143-001

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	900.10	43.34	21.91	7.11	-31.90	40.46	46.00	5.54	PK	Vertical
2	902.00	33.89	22.06	7.12	-31.89	31.18	46.00	14.82	PK	Vertical
3	928.00	29.47	21.94	7.18	-31.73	26.86	46.00	19.14	PK	Vertical
4	949.50	30.96	22.42	7.23	-31.60	29.01	46.00	16.99	PK	Vertical

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	900.100	30.33	21.91	7.11	27.45	46.00	18.55	QP	Vertical

Note:

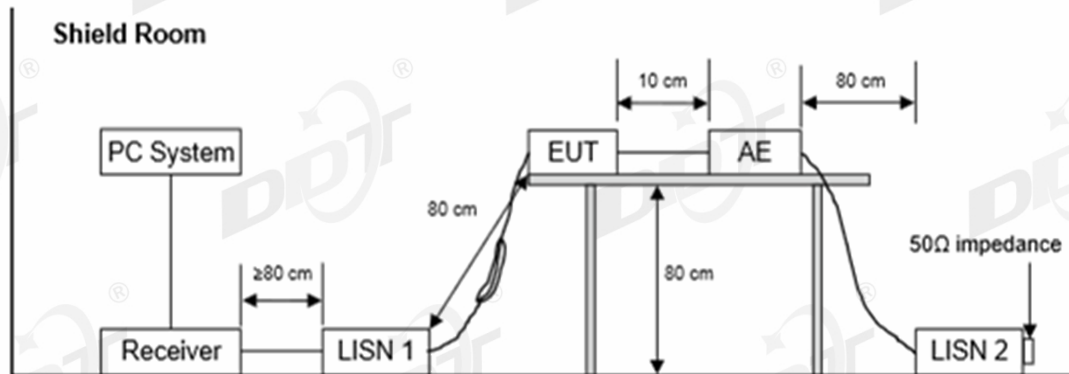
- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

16. Power Line Conducted Emissions

16.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
/	/	/	/	/

16.2. Block diagram of test setup



16.3. Limits

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

16.4. Assistant equipment used for test

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

16.5. 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.

16.6. Test result

Not Applicable

Measurements to demonstrate compliance with the conducted limits are not required for devices which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

18. Photos of the EUT

Please refer to DDT-Q25120143-1E appendix I

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