



RADIO TEST REPORT

Applicant	:	KID Company
Address of Applicant	:	129 1st Street, Los Altos, CA 94022
Manufacturer	:	KID Company
Address of Manufacturer	:	129 1st Street, Los Altos, CA 94022
Equipment under Test	:	AI Speaker
Model No.	:	KID
FCC ID	:	2BSB6KID
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020, ANSI C63 10-2020+Cor.1-2023+C63.10a- 2024+Errata to C63.10a-2024
Report No.	:	DDT-RE25091019-1E03
Issue Date	:	2025/12/02
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

Applicant	:	KID Company
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Equipment under Test	:	AI Speaker
Model No.	:	KID
Manufacturer	:	KID Company
Address of Manufacturer	:	129 1st Street, Los Altos, CA 94022

Test Standard Used:
FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10-2020,
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-RE25091019-1E03		
Date of Receipt:	2025/09/19	Date of Test:	2025/09/19 - 2025/11/14

Created: Chen Ziqin	Reviewed: Johnson Huang	Approved: Ella Gong
		
2025/11/12	2025/12/01	2025/12/02

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

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/12/02	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.247(a)(2)	/	Pass
2	Peak Output Power	47 CFR Part 15 15.247(b)(3)	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.247(e)	/	Pass
4	RF Conducted Spurious Emissions	47 CFR Part 15 15.247(d)	/	Pass
5	Radiated Emission	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d)	/	Pass
7	Antenna Requirement	47 CFR Part 15 15.203	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: AI Speaker
Model Number	: KID
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from USB cable or DC 7.4V built-in battery
Antenna Type	: FPC Antenna
Max Antenna Gain(dBi)	: 2.99

Radio Technology	: IEEE 802.11b/g/n
Operation frequency	: IEEE 802.11b: 2412MHz to 2462MHz IEEE 802.11g: 2412MHz to 2462MHz IEEE 802.11n HT20: 2412MHz to 2462MHz IEEE 802.11n HT40: 2422MHz to 2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

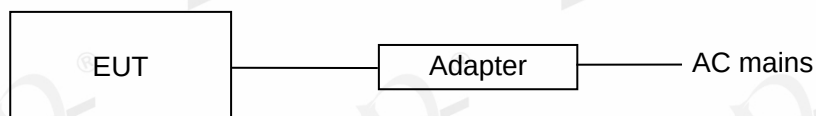
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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
USB-C cable	N/A	N/A	Length: 1.02m

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: /

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

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

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency					
Tested mode	Tx Power Setting		Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1	/			
IEEE 802.11b	14	/	1	LCH: CH1	2412
	14	/	1	MCH: CH6	2437
	14	/	1	HCH: CH11	2462
IEEE 802.11g	14	/	6	LCH: CH1	2412
	14	/	6	MCH: CH6	2437
	14	/	6	HCH: CH11	2462
IEEE 802.11n HT20	14	/	MCS 0	LCH: CH1	2412
	14	/	MCS 0	MCH: CH6	2437
	14	/	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	14	/	MCS 0	LCH: CH3	2422
	14	/	MCS 0	MCH: CH6	2437
	14	/	MCS 0	HCH: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.					

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

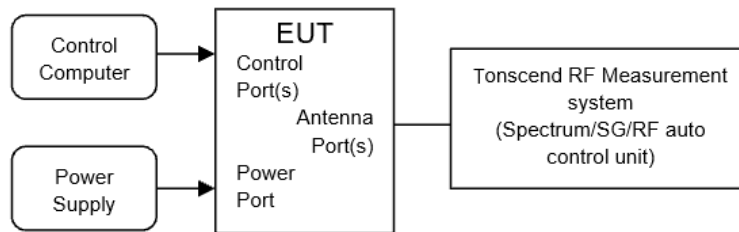
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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
☒ RF Connected Test (RF Measurement System 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	120259	2026/03/28
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2026/03/28
RF Control Unit	Tonscend	JS0806-2	158060010	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

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

RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

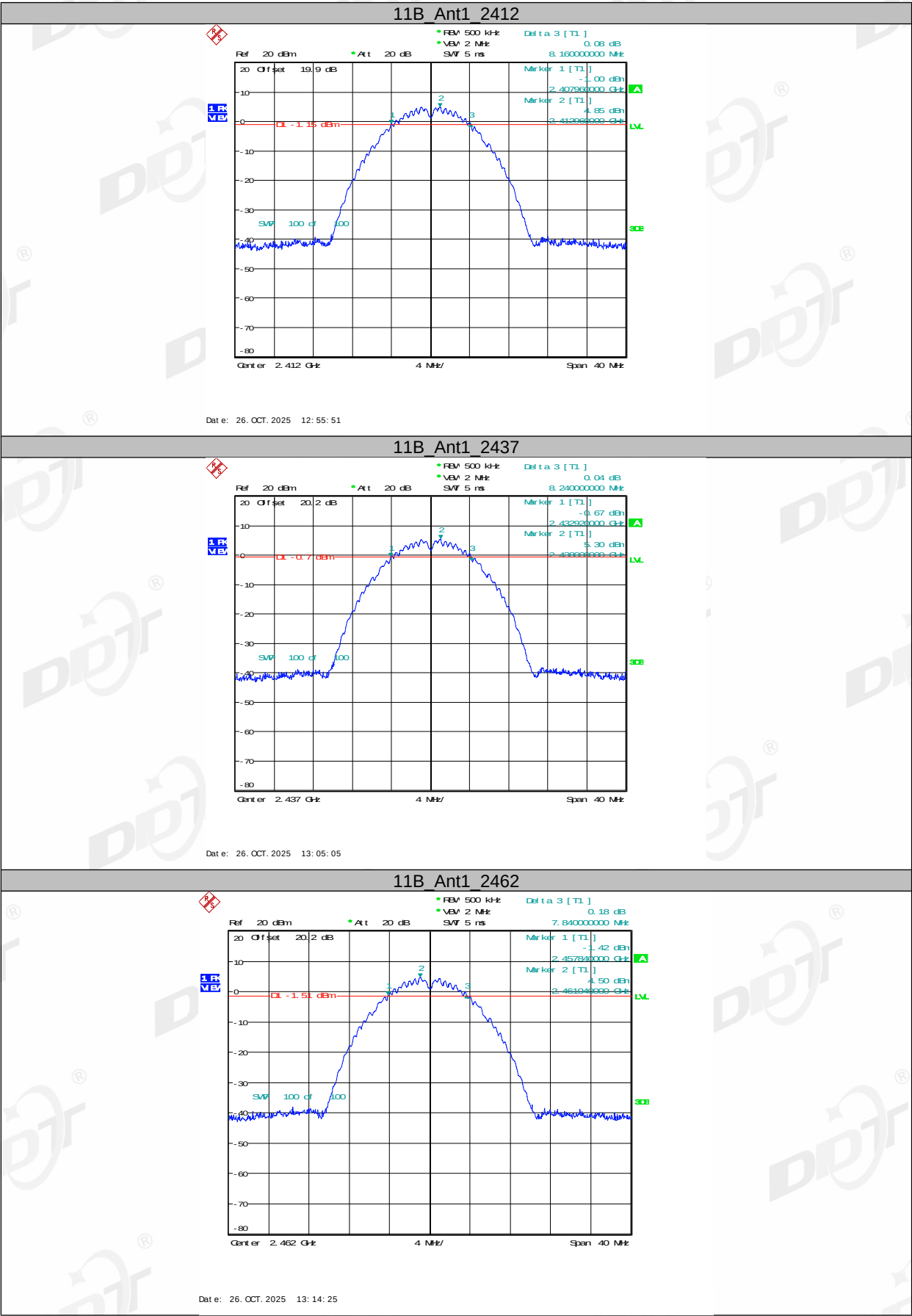
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

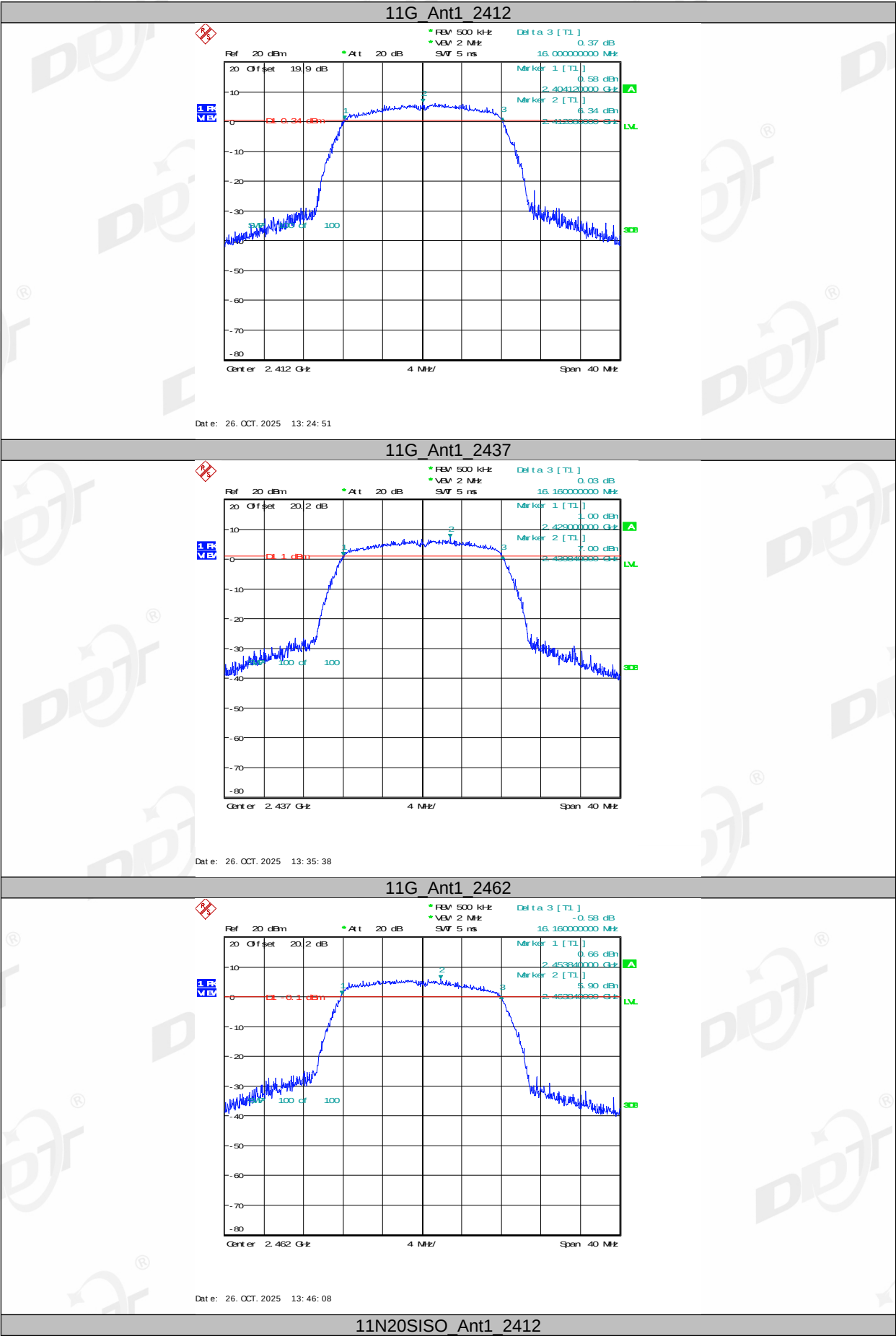
4.4. Test result

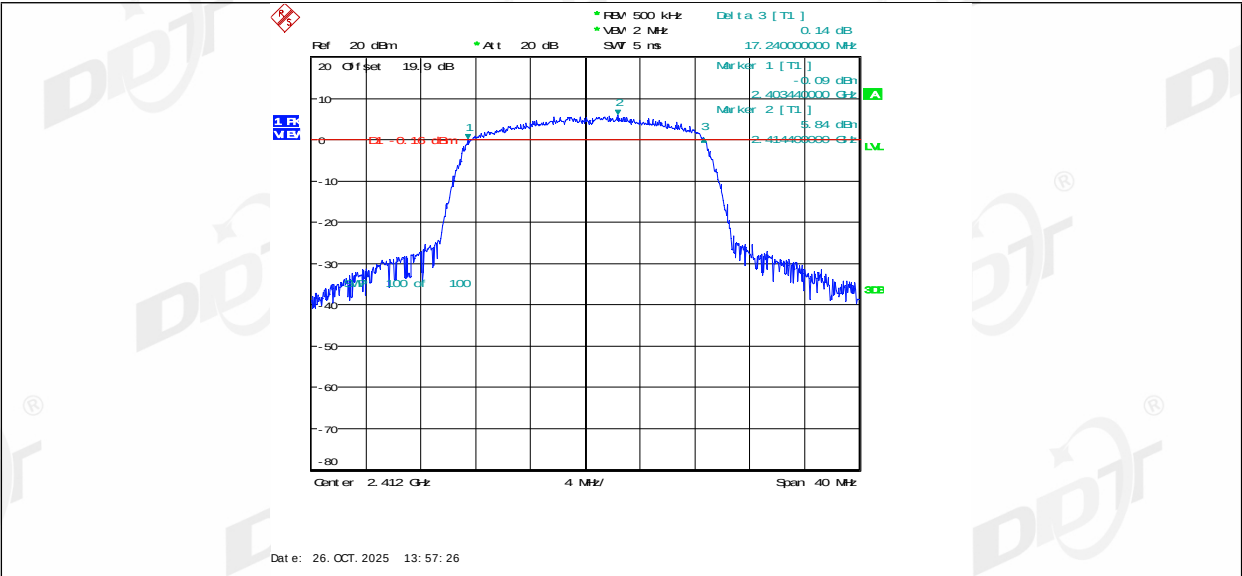
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.16	2407.96	2416.12	0.5	PASS
		2437	8.24	2432.92	2441.16	0.5	PASS
		2462	7.84	2457.84	2465.68	0.5	PASS
11G	Ant1	2412	16.00	2404.12	2420.12	0.5	PASS
		2437	16.16	2429.00	2445.16	0.5	PASS
		2462	16.16	2453.84	2470.00	0.5	PASS
11N20SISO	Ant1	2412	17.24	2403.44	2420.68	0.5	PASS
		2437	17.28	2428.44	2445.72	0.5	PASS
		2462	17.32	2453.16	2470.48	0.5	PASS
11N40SISO	Ant1	2422	34.56	2405.28	2439.84	0.5	PASS
		2437	35.28	2419.40	2454.68	0.5	PASS
		2452	33.12	2434.40	2467.52	0.5	PASS

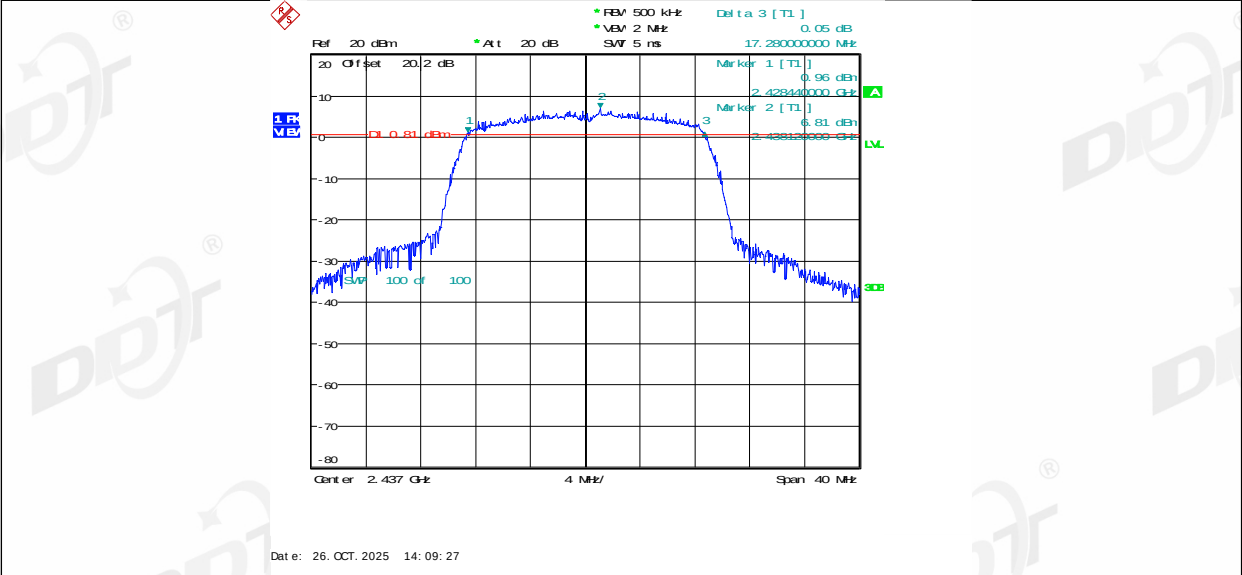
4.5. Test graphs



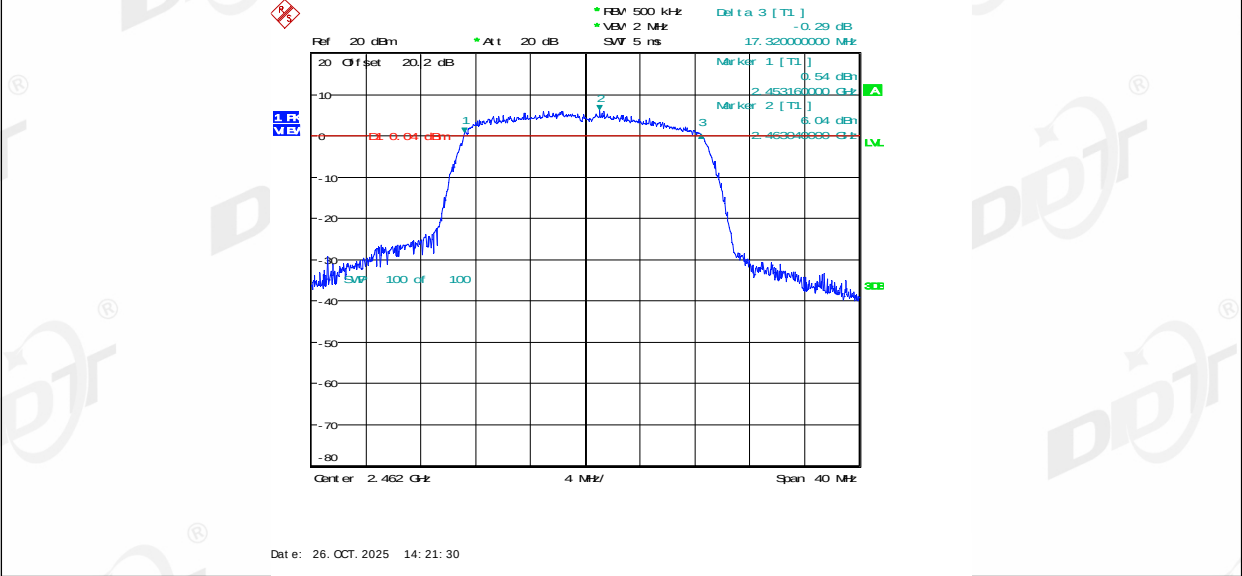




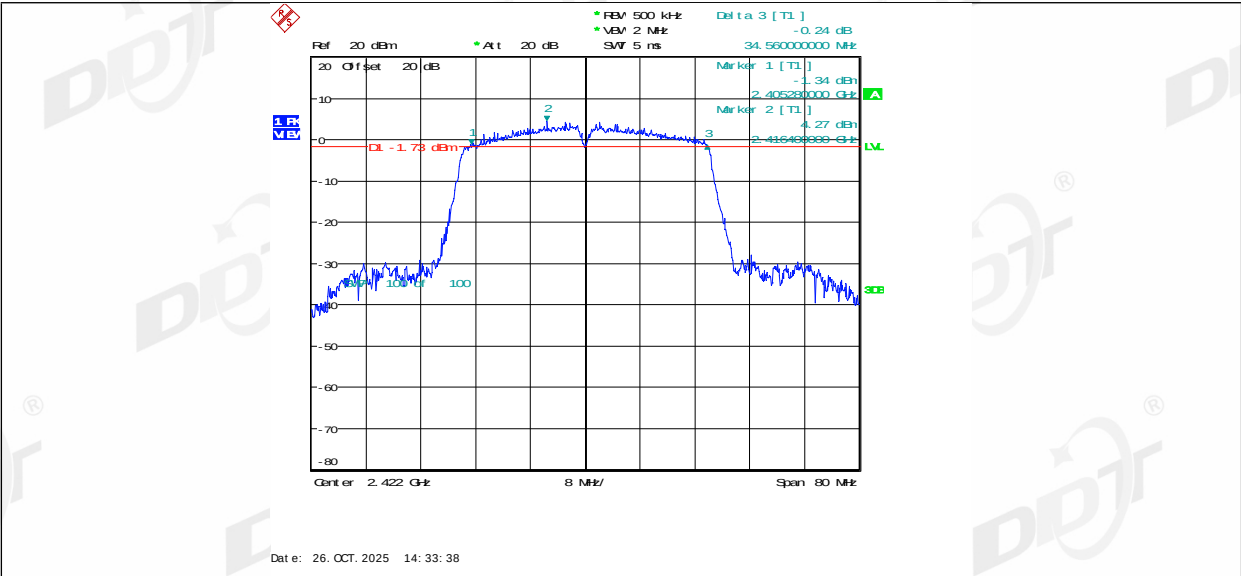
11N20SISO Ant1 2437



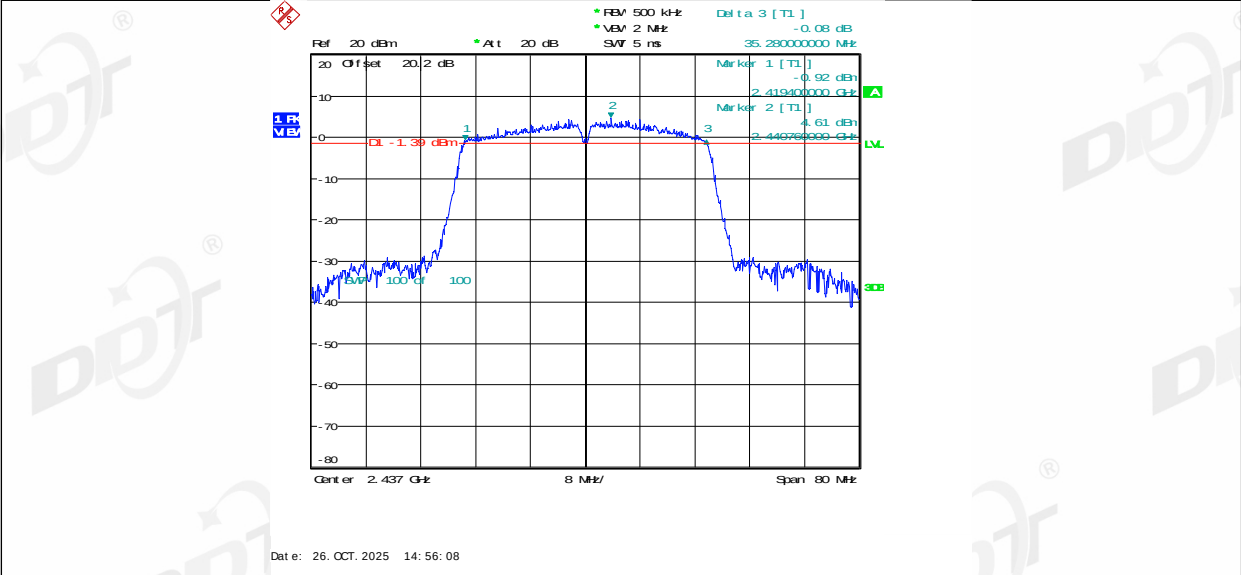
11N20SISO Ant1 2462



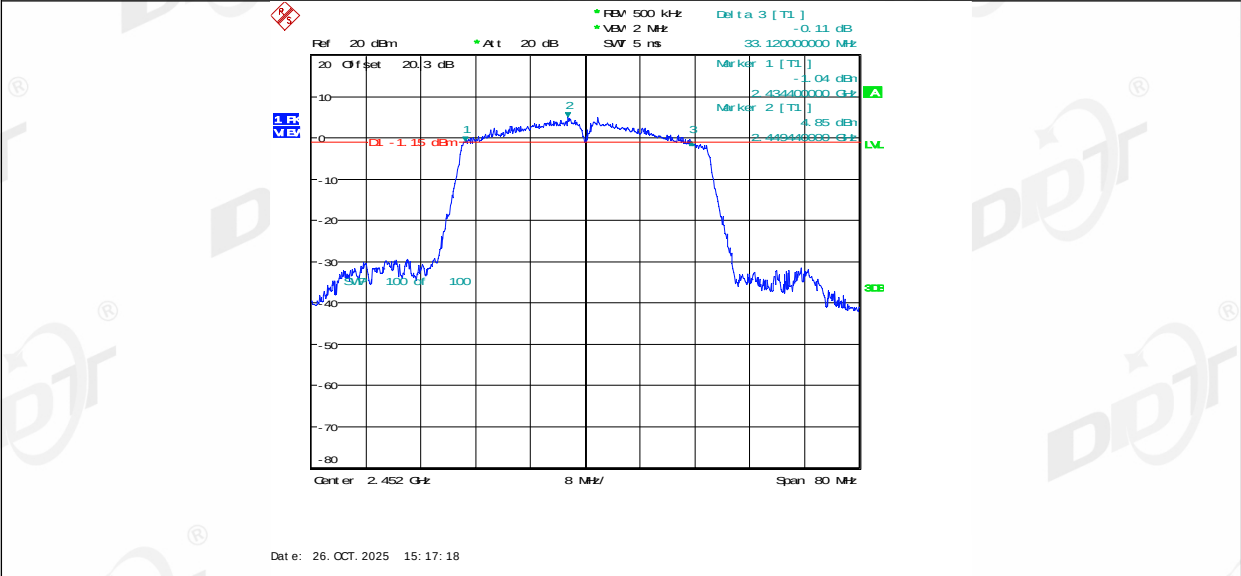
11N40SISO Ant1 2422



11N40SISO Ant1 2437

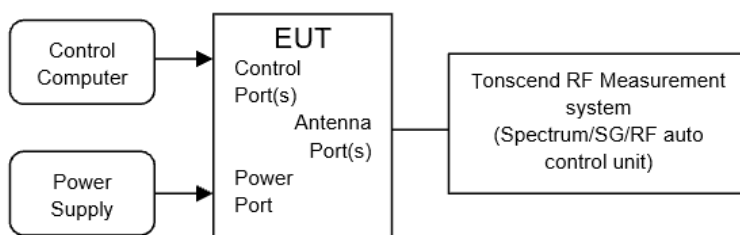


11N40SISO Ant1 2452



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:

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

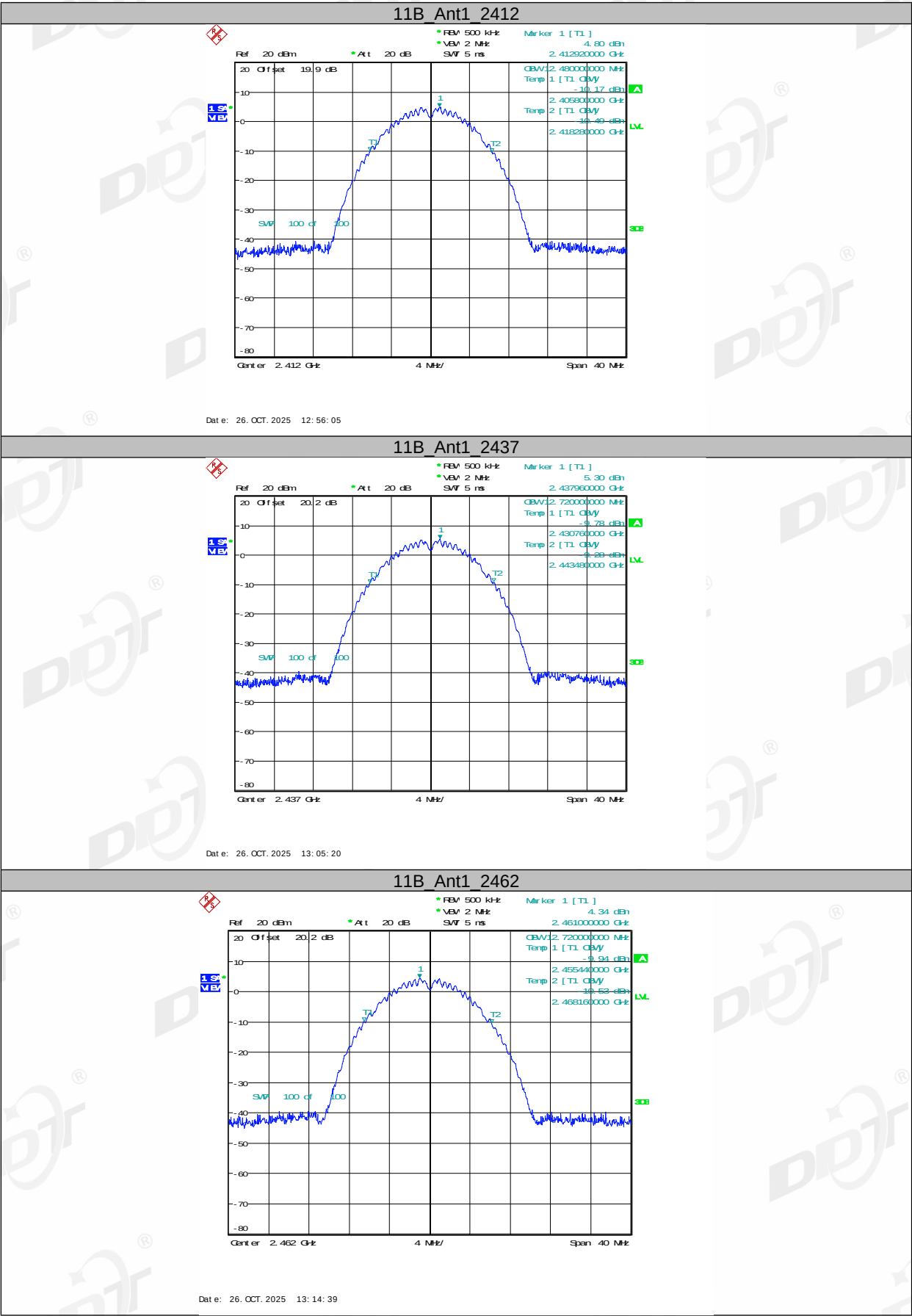
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

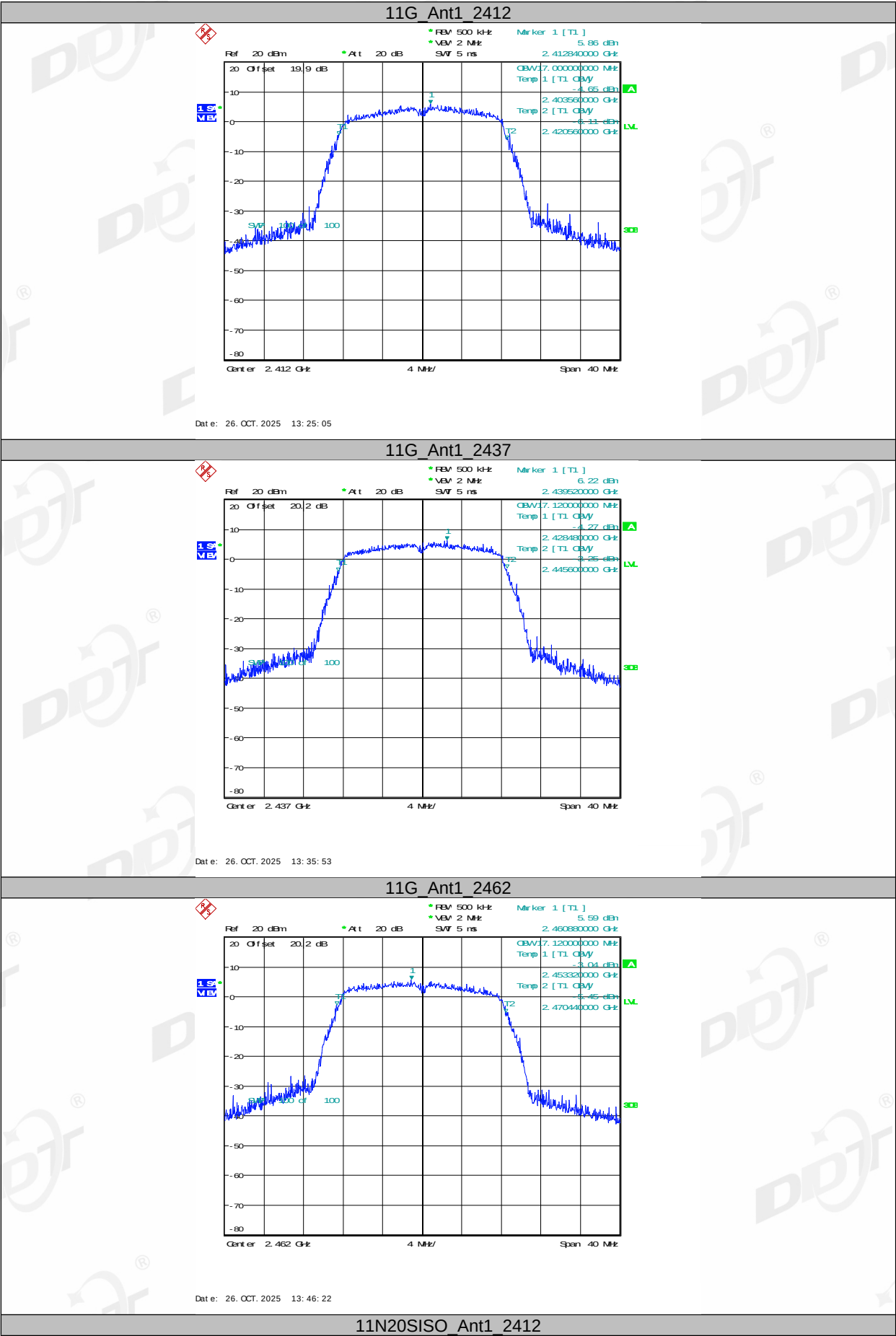
5.4. Test result

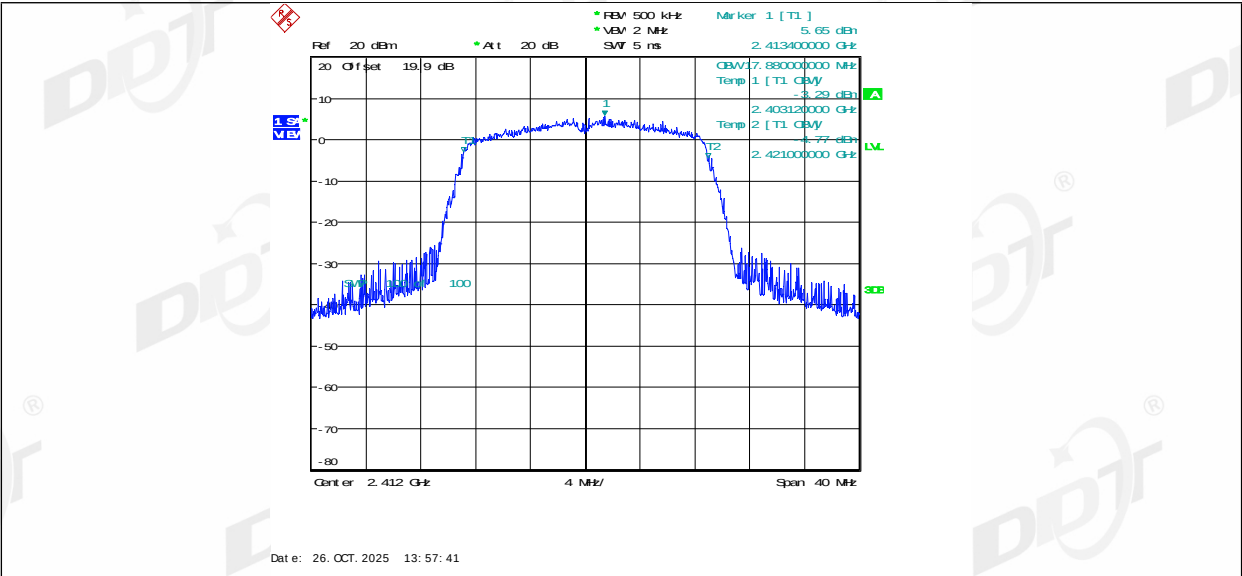
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.480	2405.8000	2418.2800	---	---
		2437	12.720	2430.7600	2443.4800	---	---
		2462	12.720	2455.4400	2468.1600	---	---
11G	Ant1	2412	17.000	2403.5600	2420.5600	---	---
		2437	17.120	2428.4800	2445.6000	---	---
		2462	17.120	2453.3200	2470.4400	---	---
11N20SISO	Ant1	2412	17.880	2403.1200	2421.0000	---	---
		2437	18.040	2427.9600	2446.0000	---	---
		2462	18.000	2452.8800	2470.8800	---	---
11N40SISO	Ant1	2422	36.160	2404.0000	2440.1600	---	---
		2437	36.240	2418.8400	2455.0800	---	---
		2452	36.080	2433.8400	2469.9200	---	---

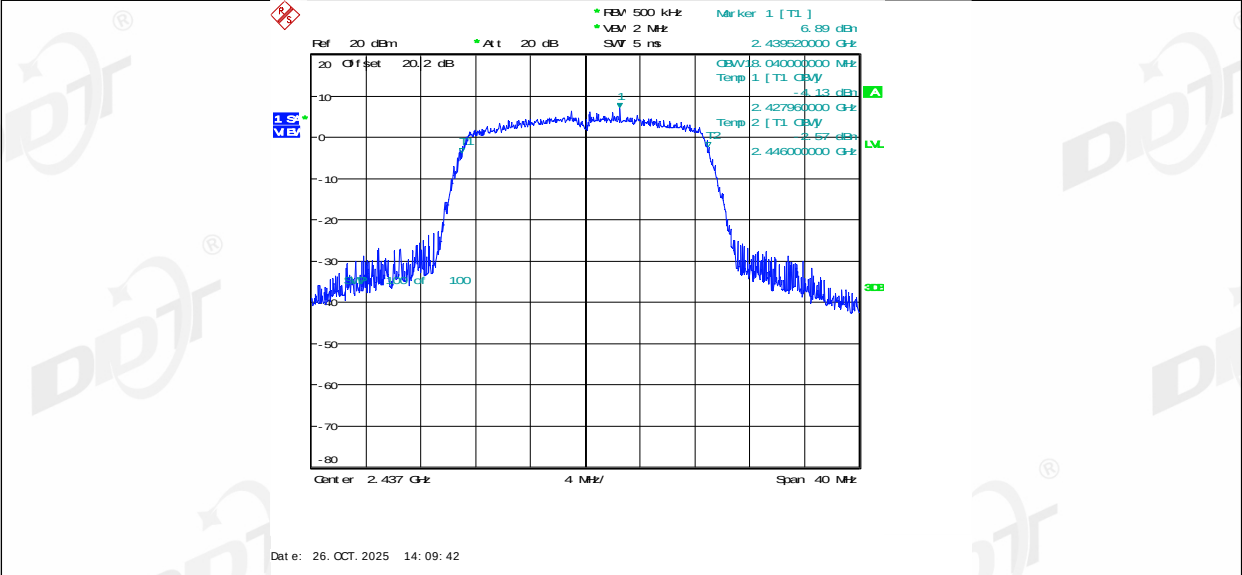
5.5. Test graphs



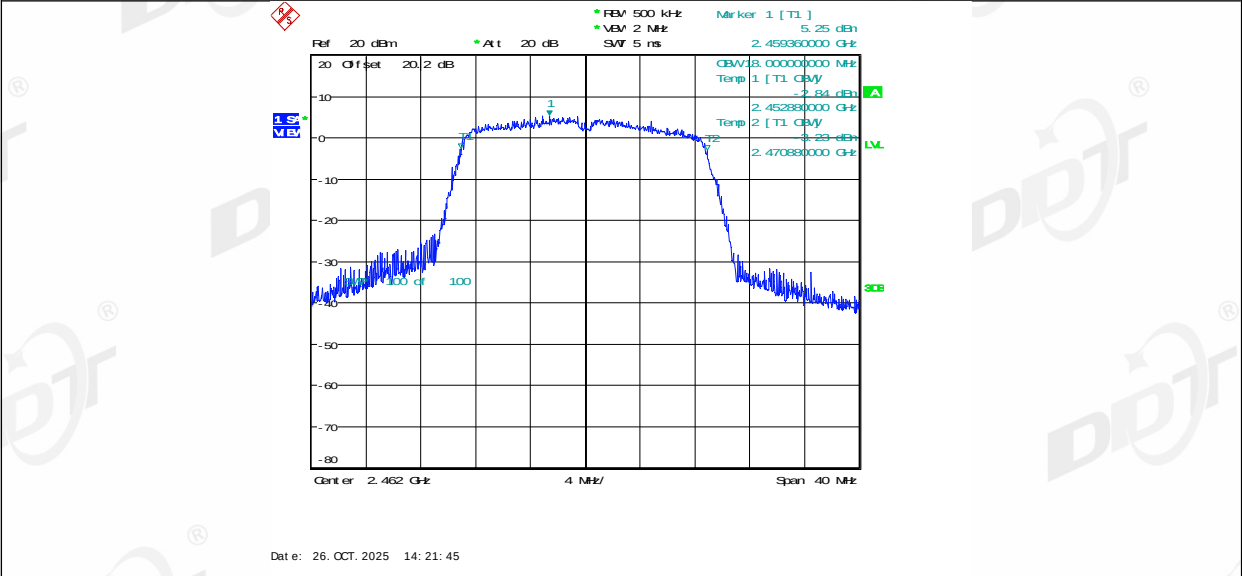




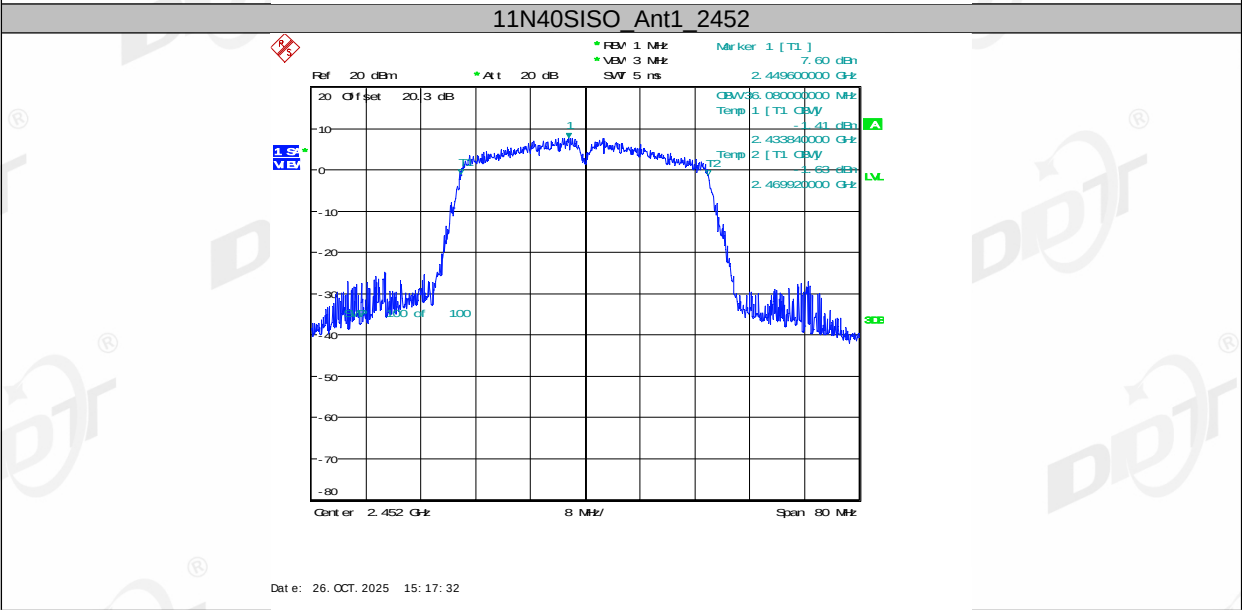
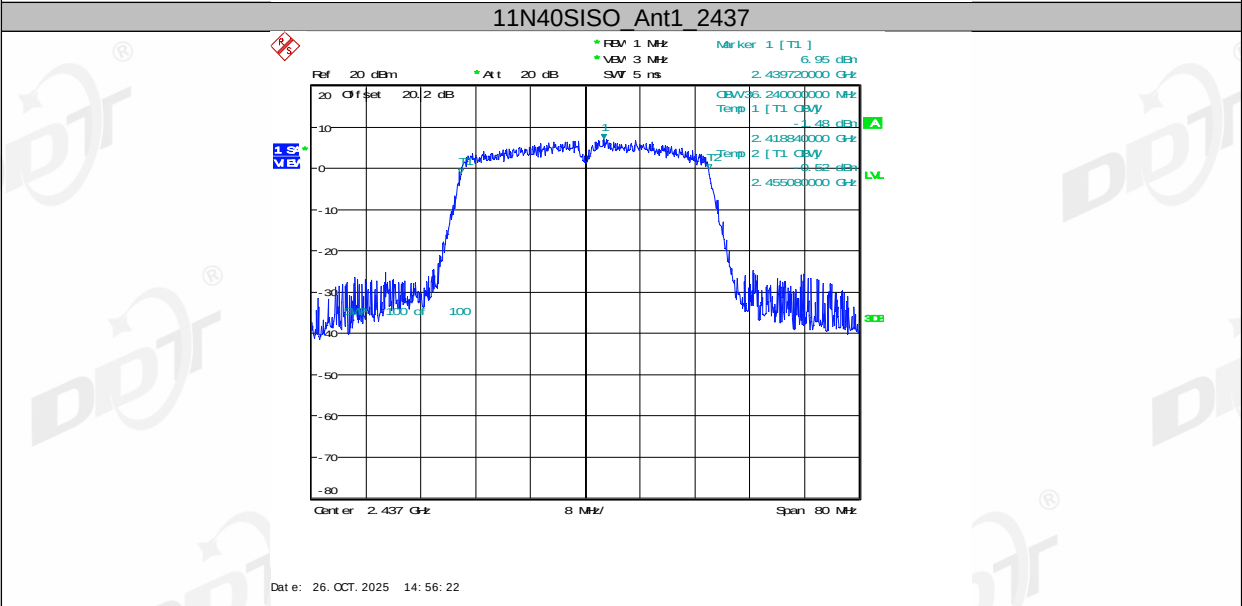
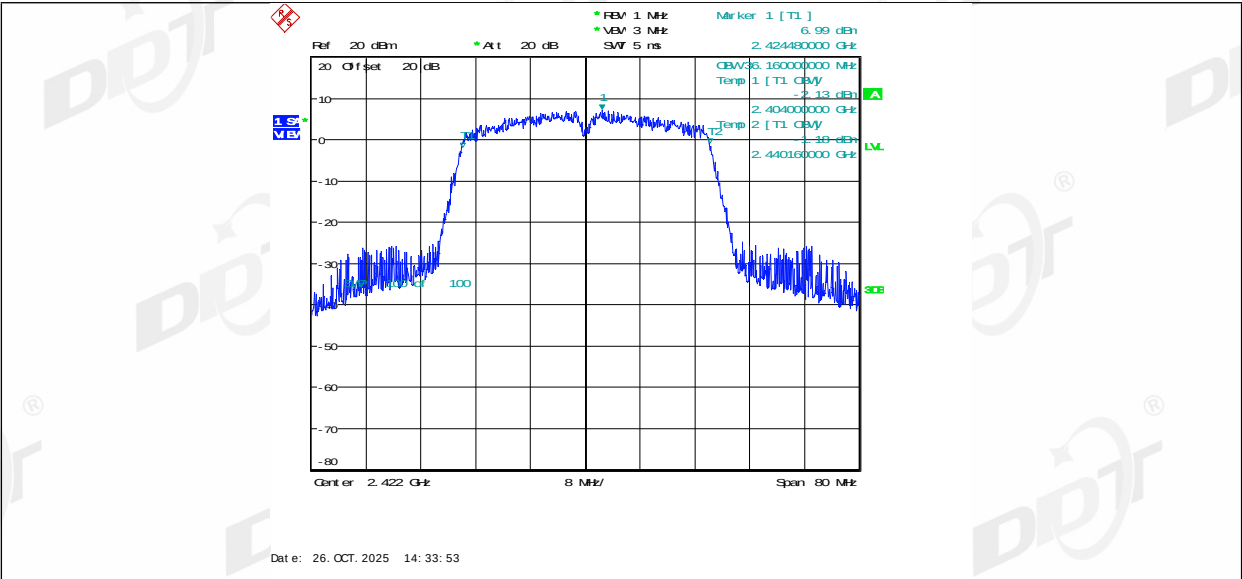
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

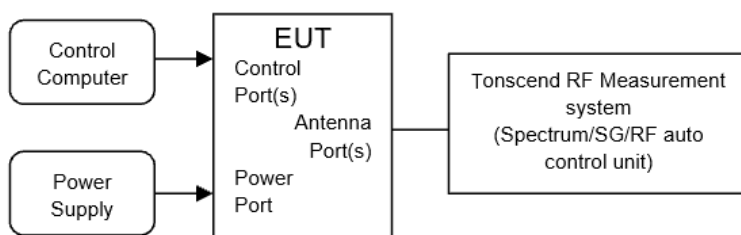


11N40SISO_Ant1_2422



6. Conducted Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter 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, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

6.4. Test result average

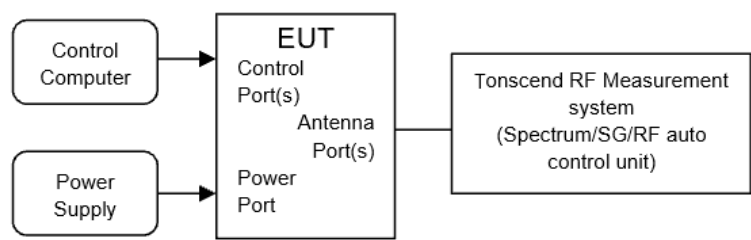
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	11.22	99.64	0.02	11.24	≤30.00	14.23	≤36.00	PASS
		2437	12.20	99.41	0.03	12.23	≤30.00	15.22	≤36.00	PASS
		2462	11.42	99.53	0.02	11.44	≤30.00	14.43	≤36.00	PASS
11G	Ant1	2412	11.51	97.22	0.12	11.63	≤30.00	14.62	≤36.00	PASS
		2437	11.69	96.55	0.15	11.84	≤30.00	14.83	≤36.00	PASS
		2462	11.24	97.22	0.12	11.36	≤30.00	14.35	≤36.00	PASS
11N20SISO	Ant1	2412	11.52	96.32	0.16	11.68	≤30.00	14.67	≤36.00	PASS
		2437	11.64	96.30	0.16	11.80	≤30.00	14.79	≤36.00	PASS
		2462	11.28	97.04	0.13	11.41	≤30.00	14.4	≤36.00	PASS
11N40SISO	Ant1	2422	11.80	92.86	0.32	12.12	≤30.00	15.11	≤36.00	PASS
		2437	11.65	92.86	0.32	11.97	≤30.00	14.96	≤36.00	PASS
		2452	11.72	94.20	0.26	11.98	≤30.00	14.97	≤36.00	PASS

Note: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

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

7.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.10.5.
- (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 Power Spectral Density measurement:

Center frequency	DTS Channel center frequency
RBW:	$3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	max hold
	Employ trace averaging (rms)
Trace	mode over a minimum of 100 traces.
- (5) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

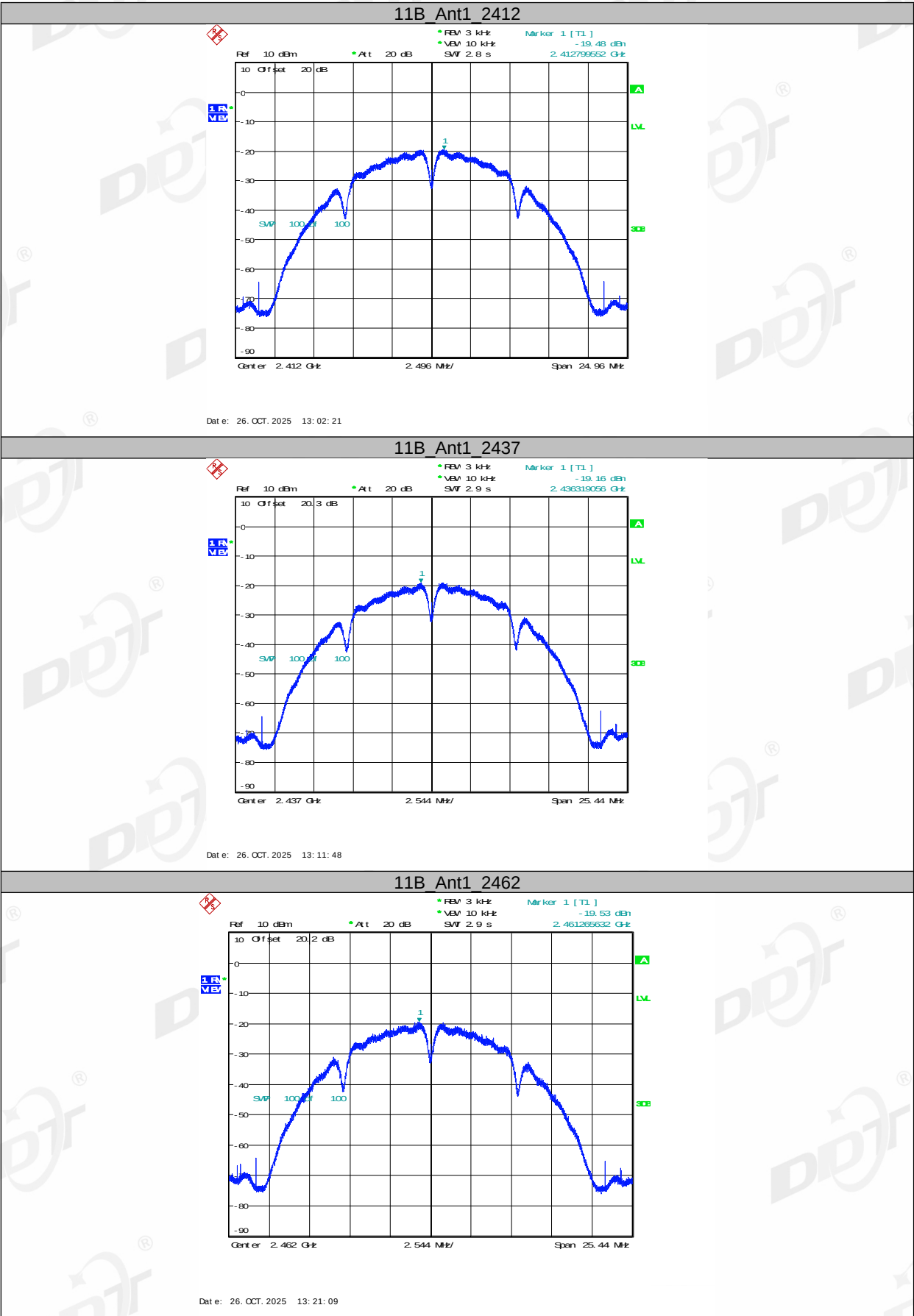
7.4. Test result

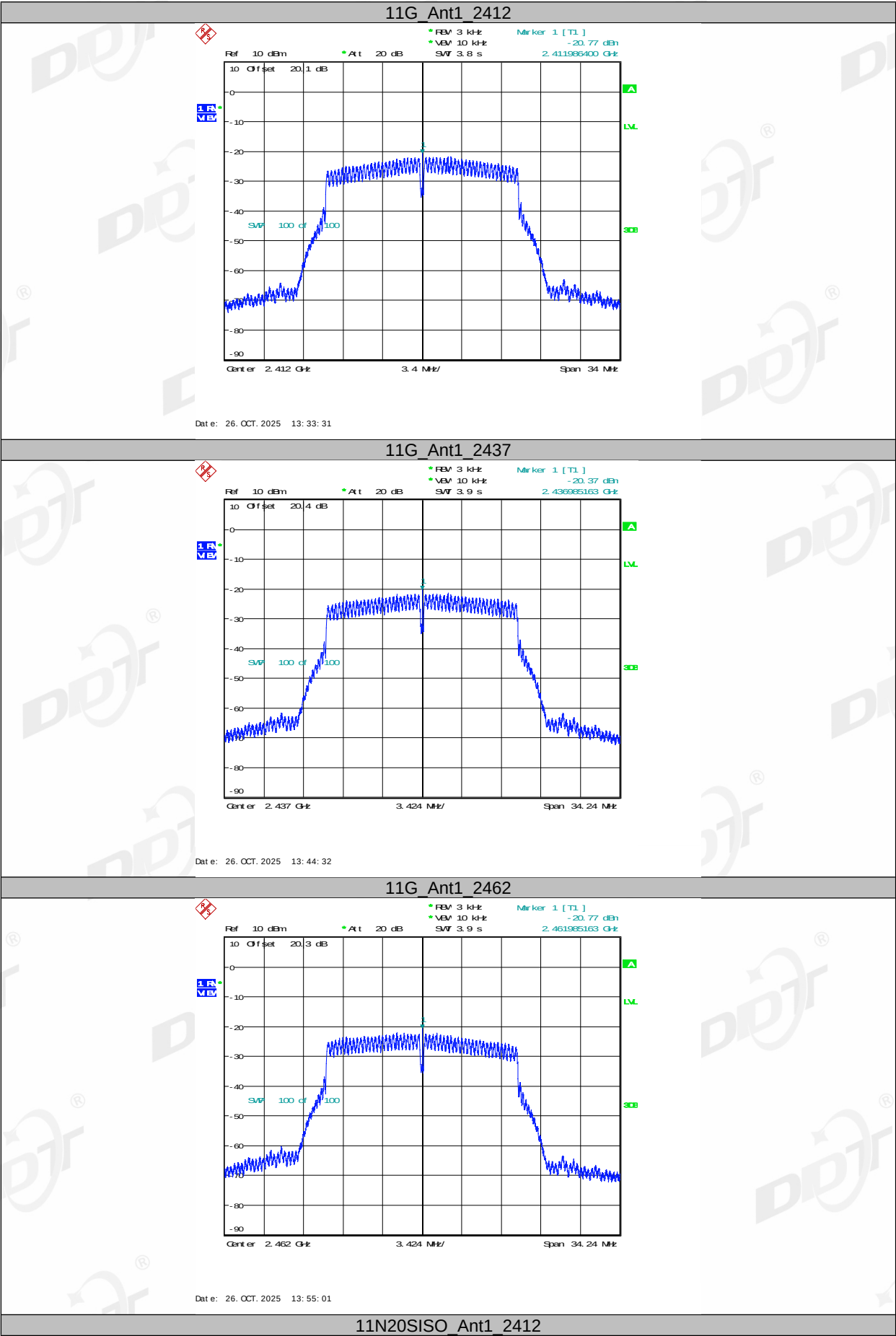
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

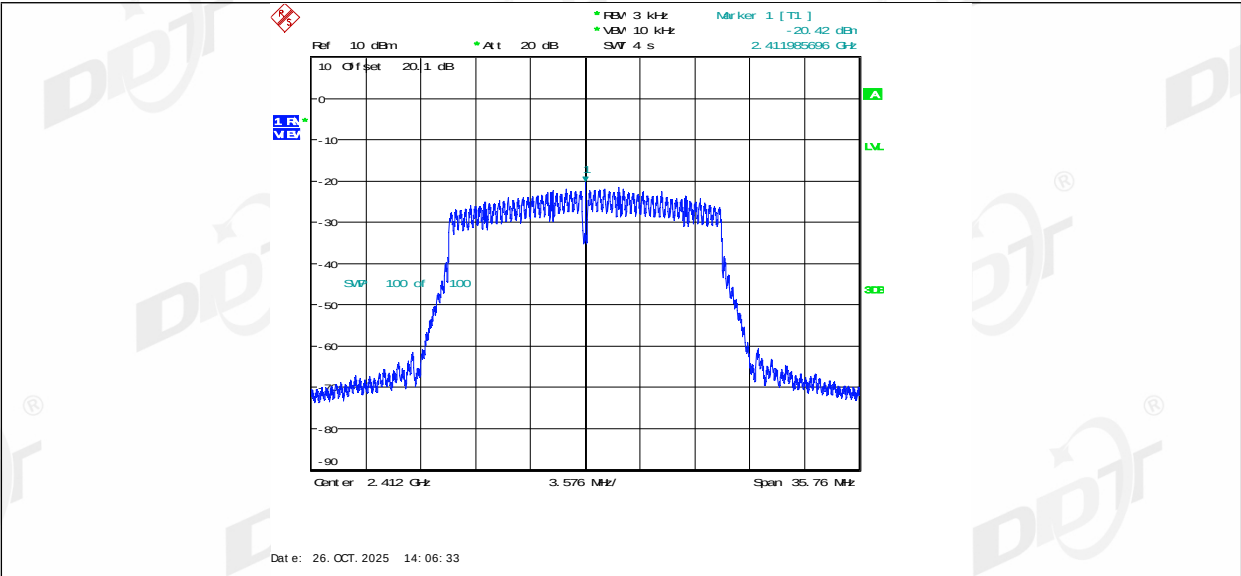
Test Mode	Antenna	Frequency [MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.48	≤8.00	PASS
		2437	-19.16	≤8.00	PASS
		2462	-19.53	≤8.00	PASS
11G	Ant1	2412	-20.77	≤8.00	PASS
		2437	-20.37	≤8.00	PASS
		2462	-20.77	≤8.00	PASS
11N20SISO	Ant1	2412	-20.42	≤8.00	PASS
		2437	-20.05	≤8.00	PASS
		2462	-20.89	≤8.00	PASS
11N40SISO	Ant1	2422	-20.91	≤8.00	PASS
		2437	-20.54	≤8.00	PASS
		2452	-20.74	≤8.00	PASS

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

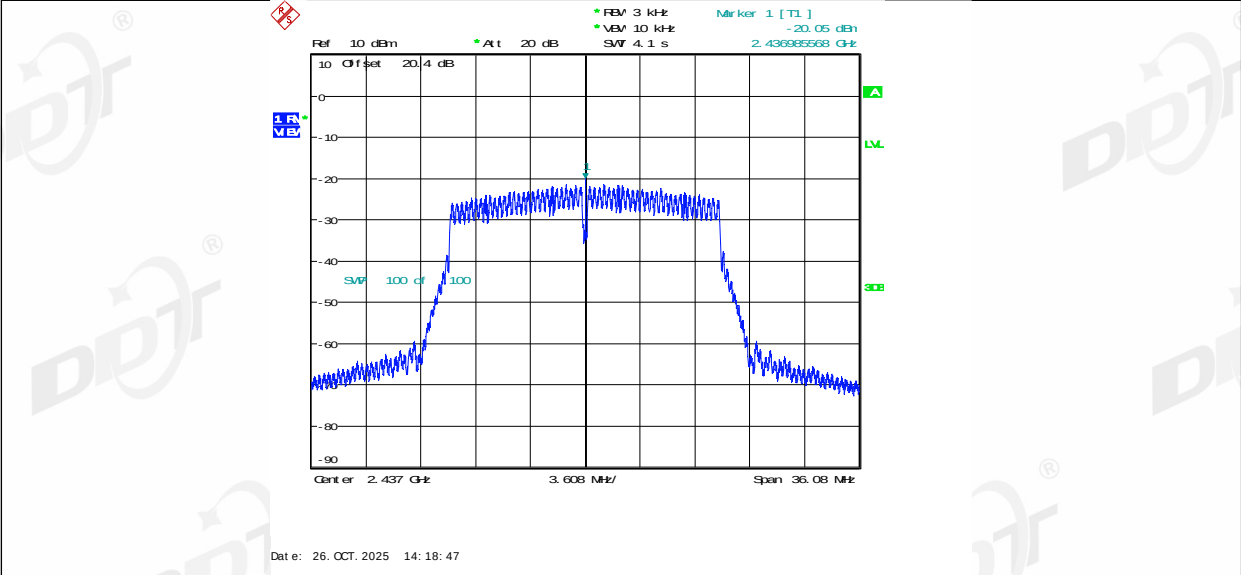
7.5. Test graphs



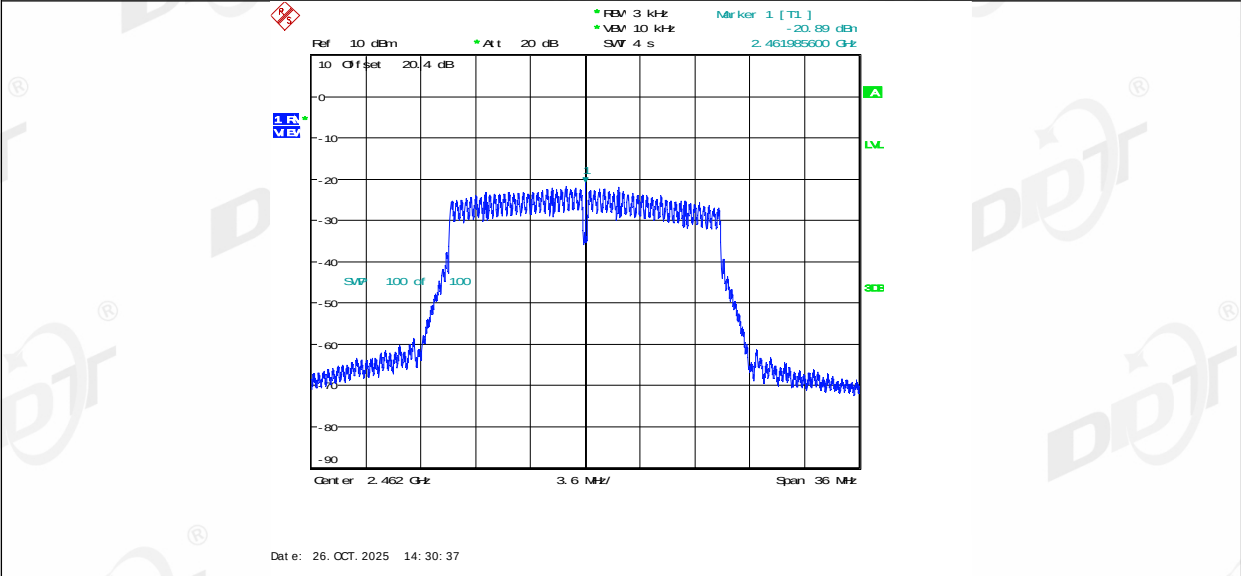




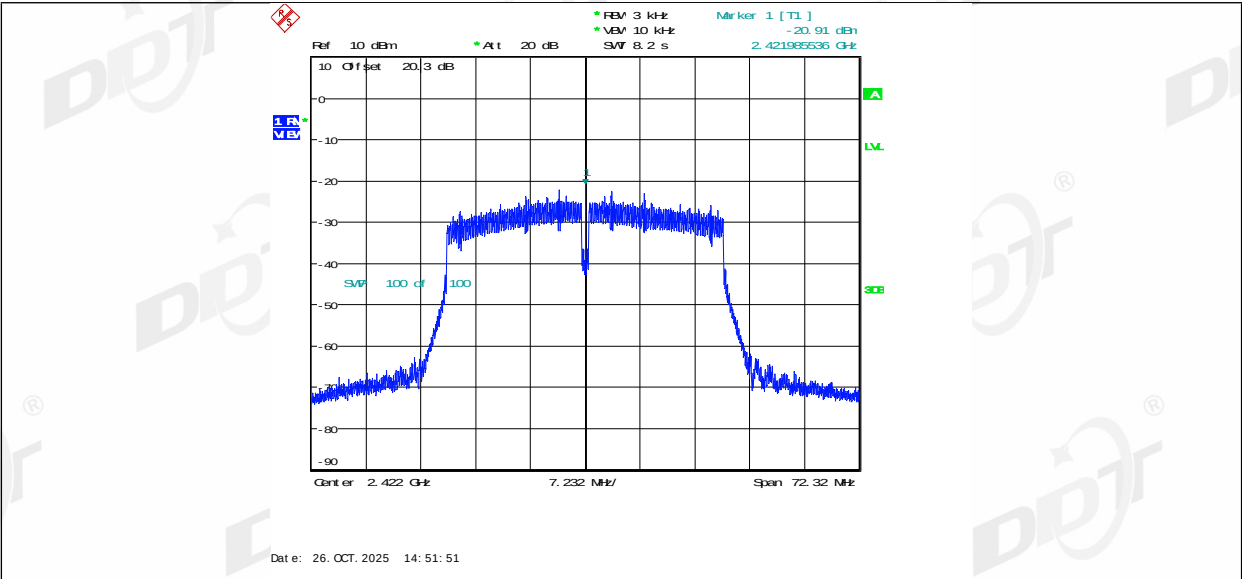
11N20SISO_Ant1_2437



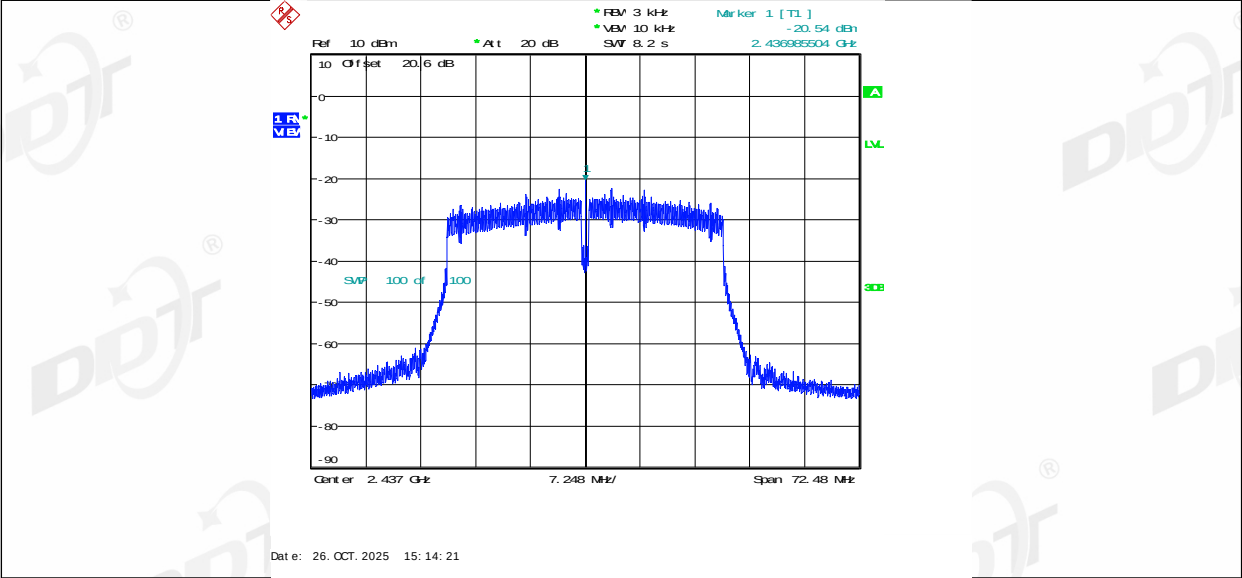
11N20SISO_Ant1_2462



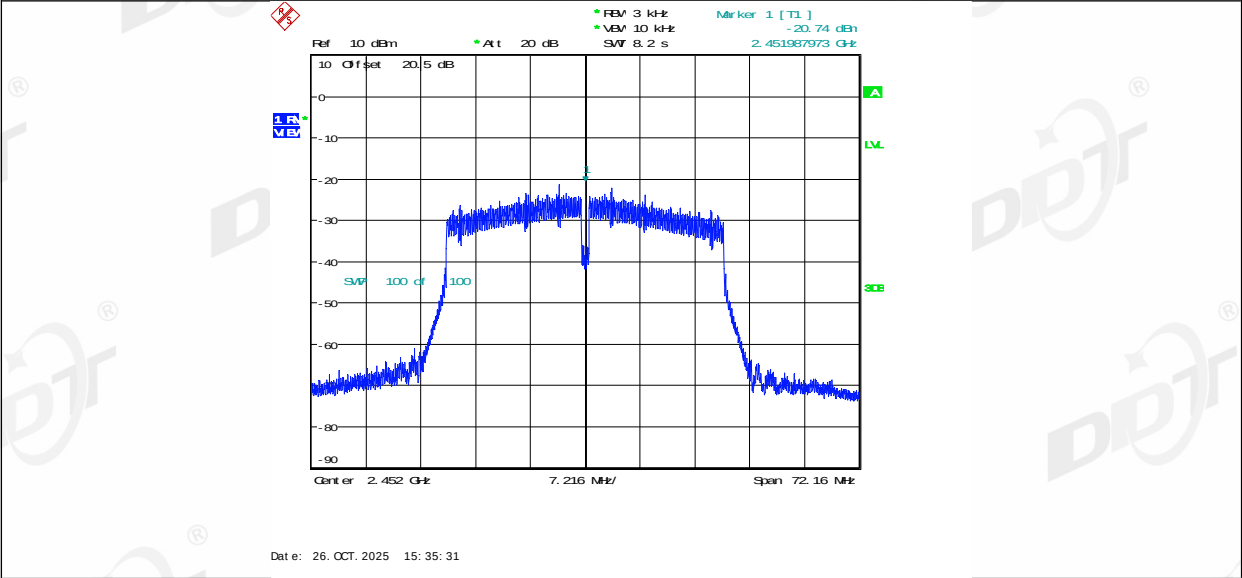
11N40SISO_Ant1_2422



11N40SISO Ant1 2437

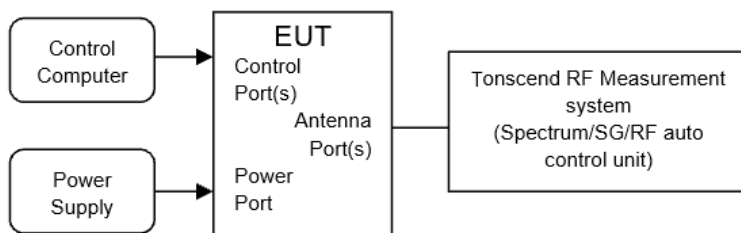


11N40SISO Ant1 2452



8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup



8.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

8.3. Test procedure

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

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

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

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

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

8.4. Test result

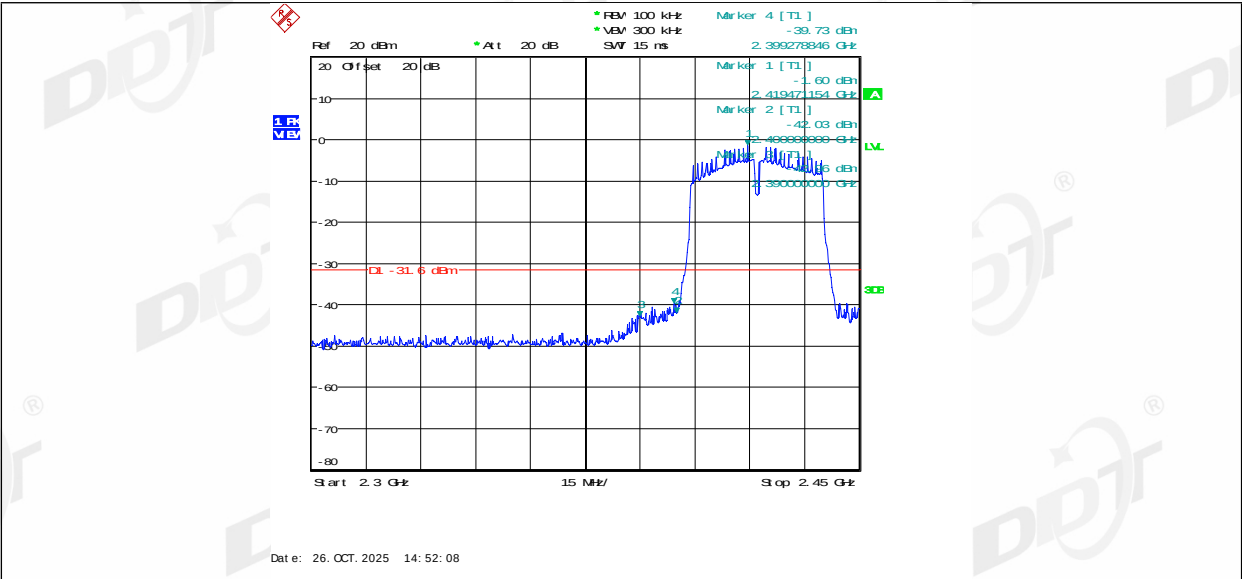
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass

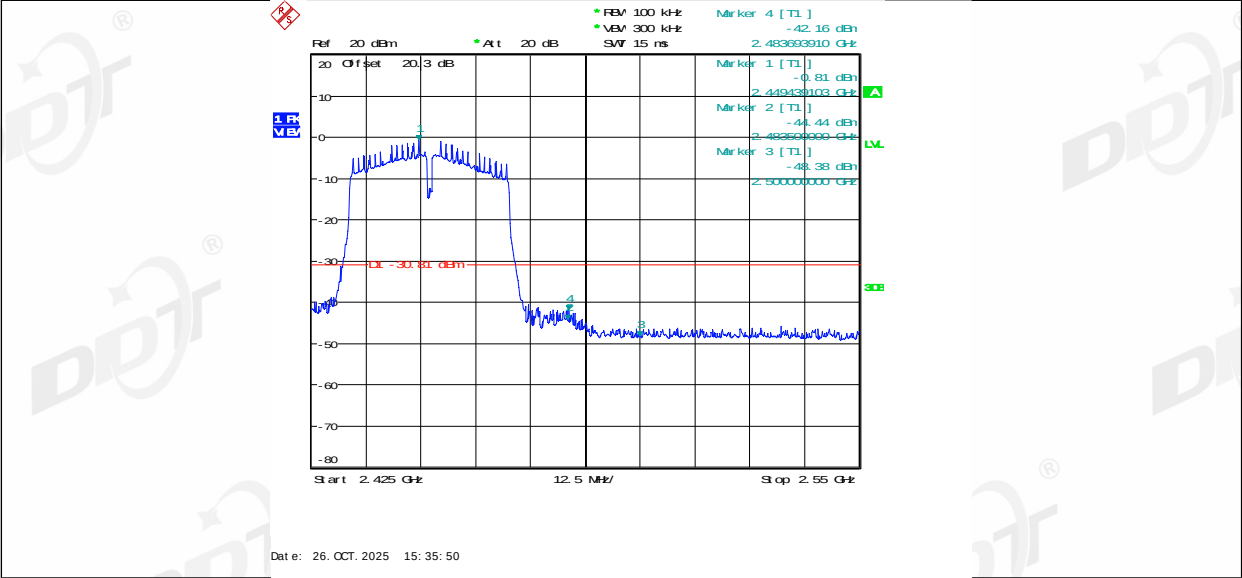
8.5. Test graphs





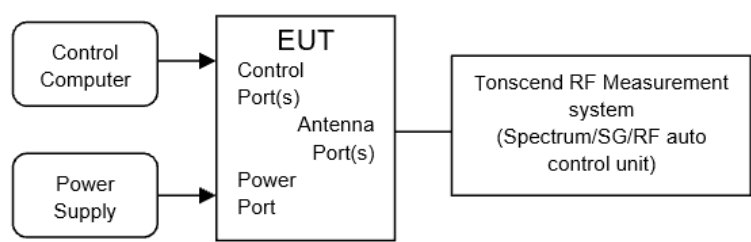


11N40SISO Ant1_High_2452



9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup



9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

9.3. 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	≥Span/RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

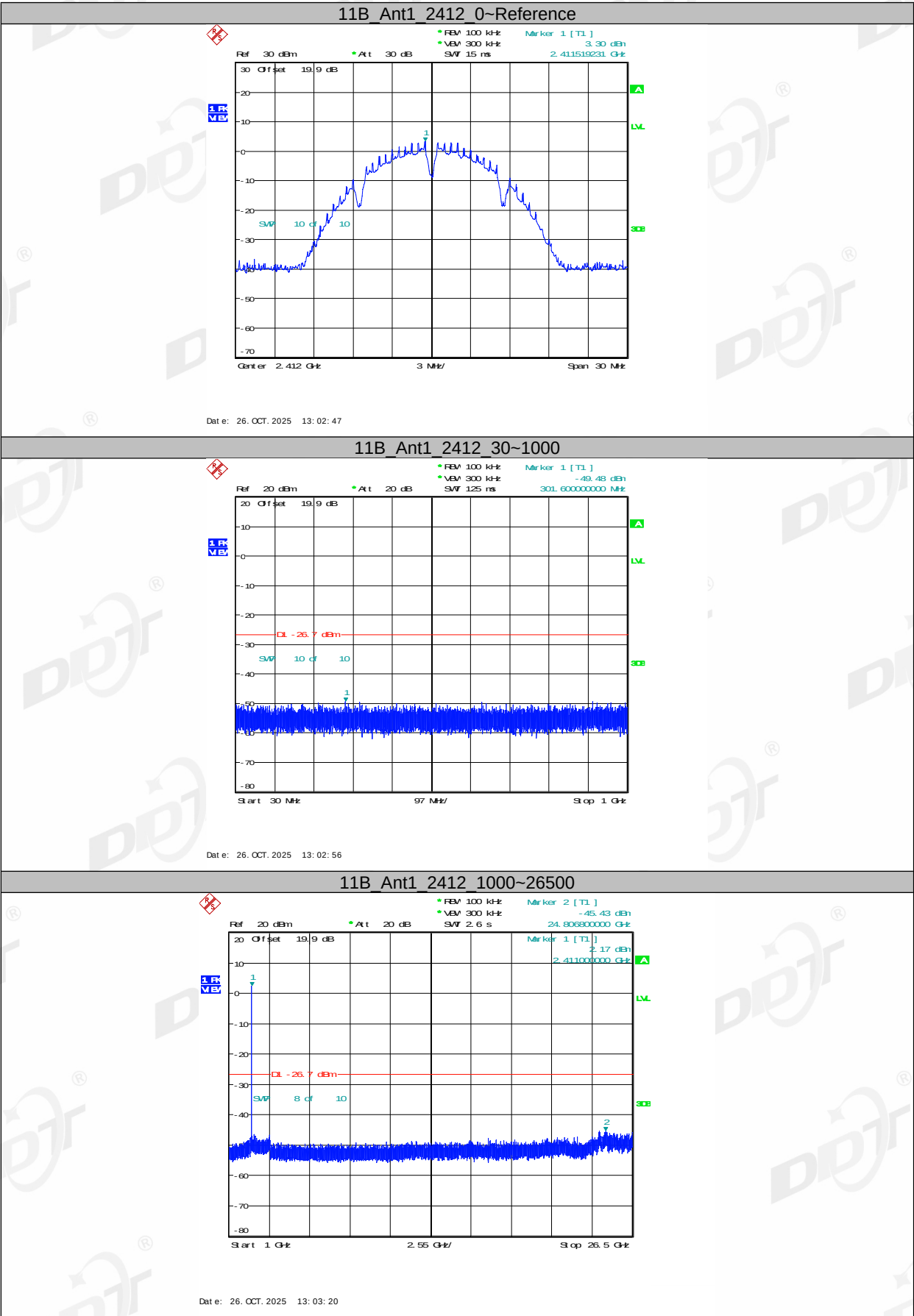
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

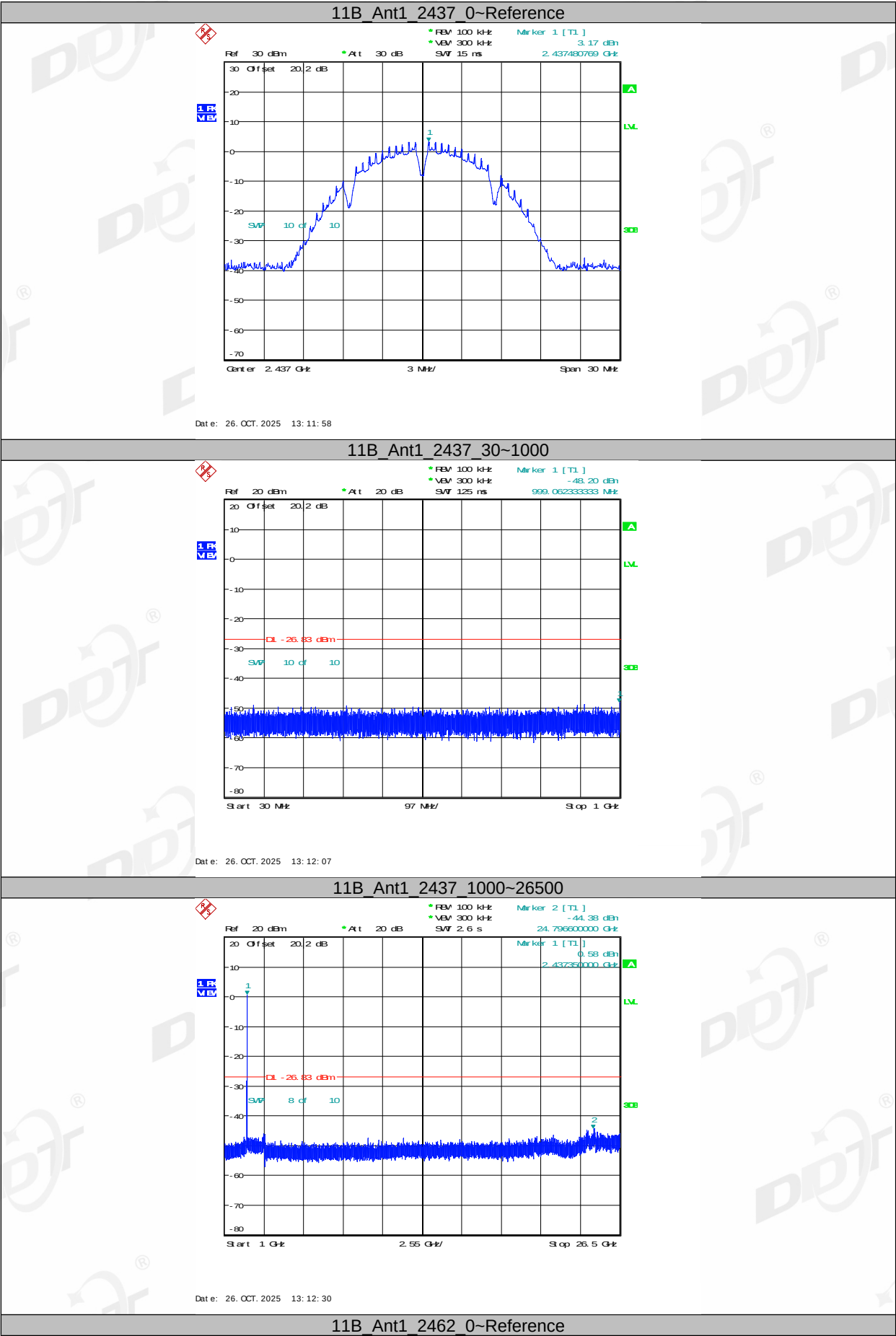
9.4. Test result

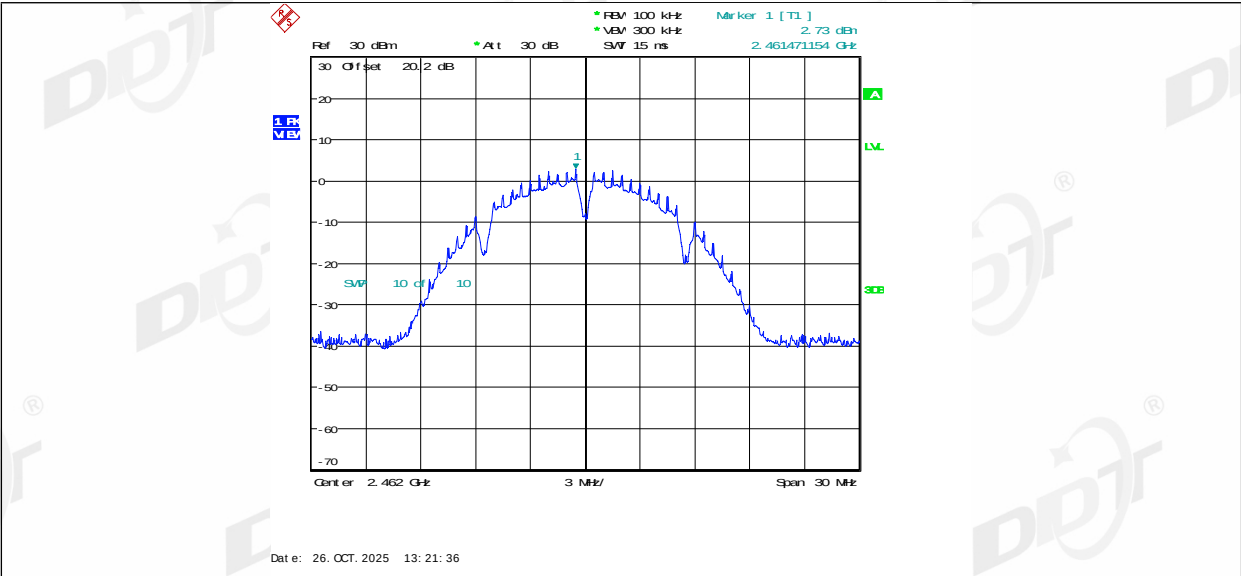
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass

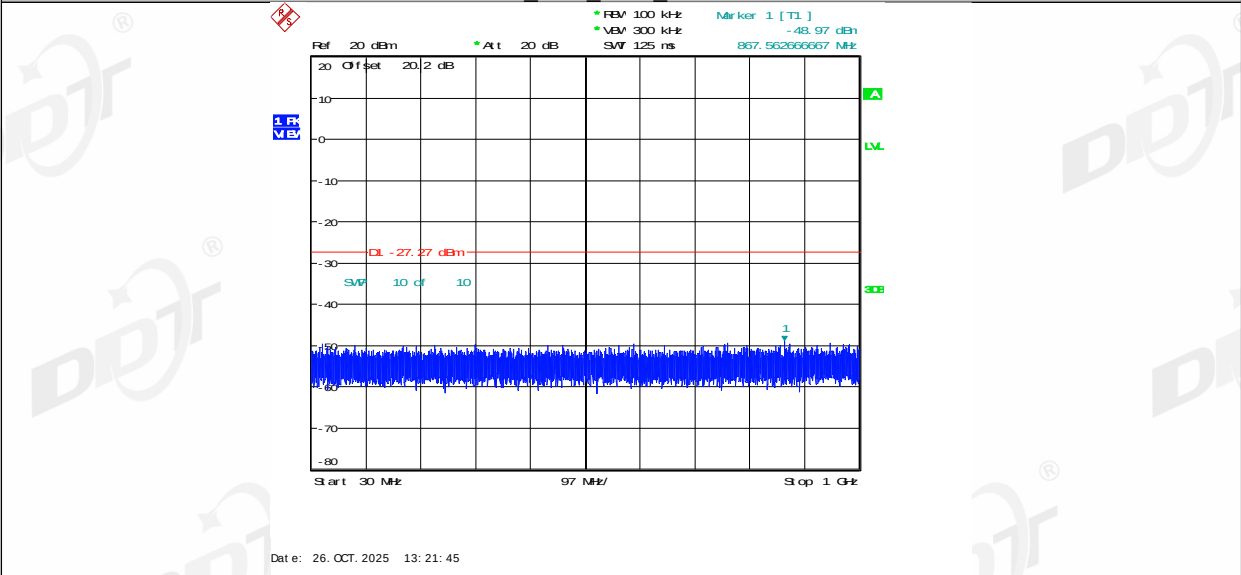
9.5. Test graphs



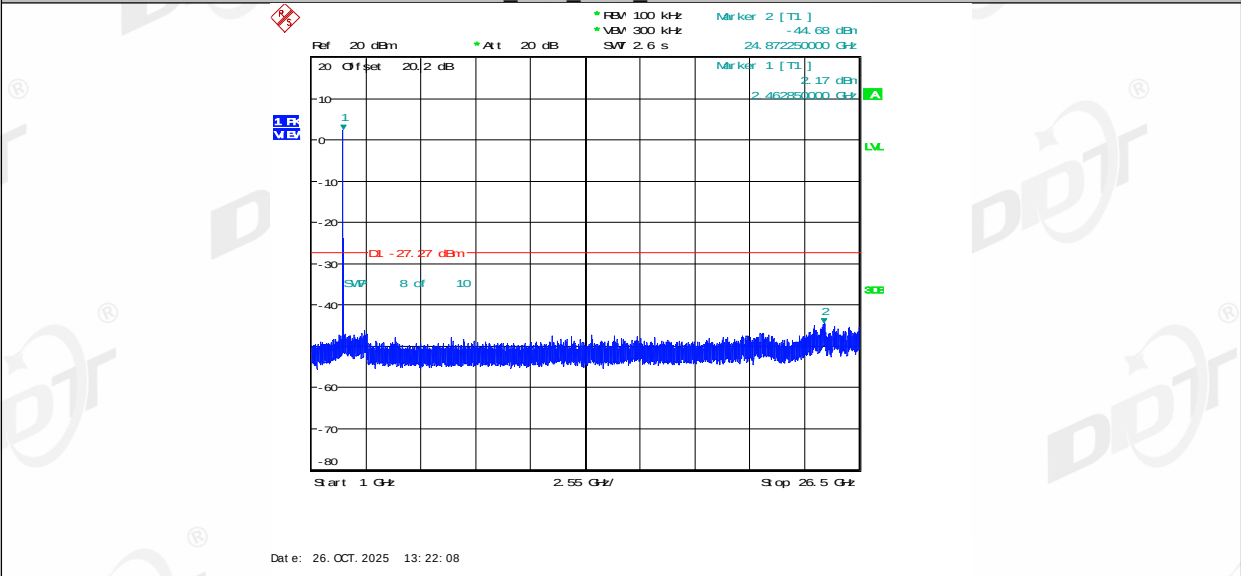




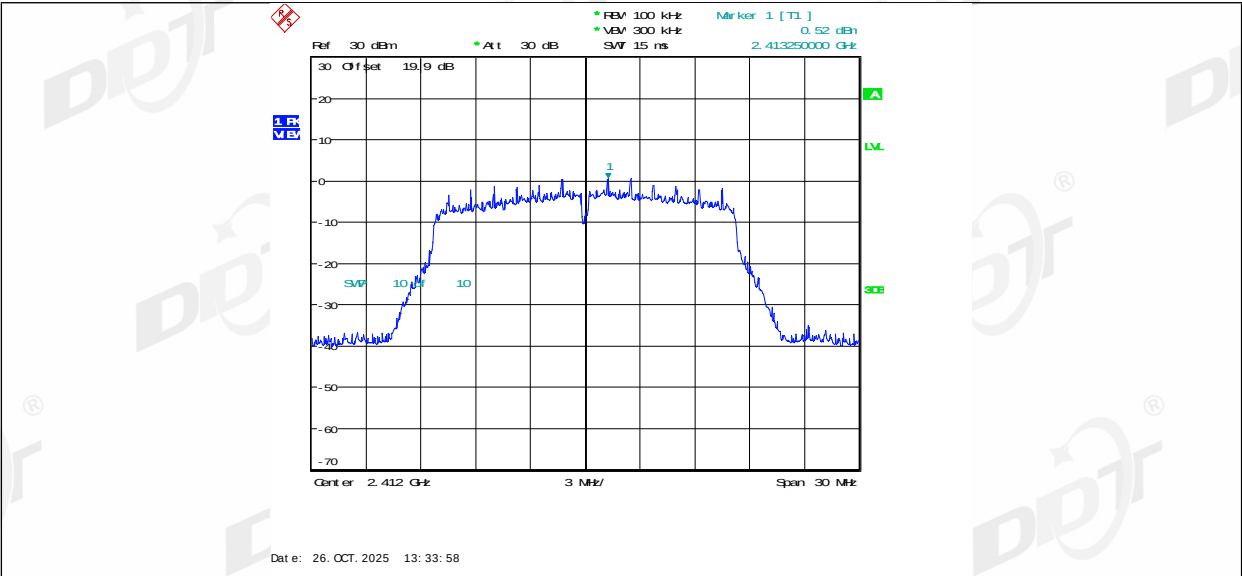
11B_Ant1_2462_30~1000



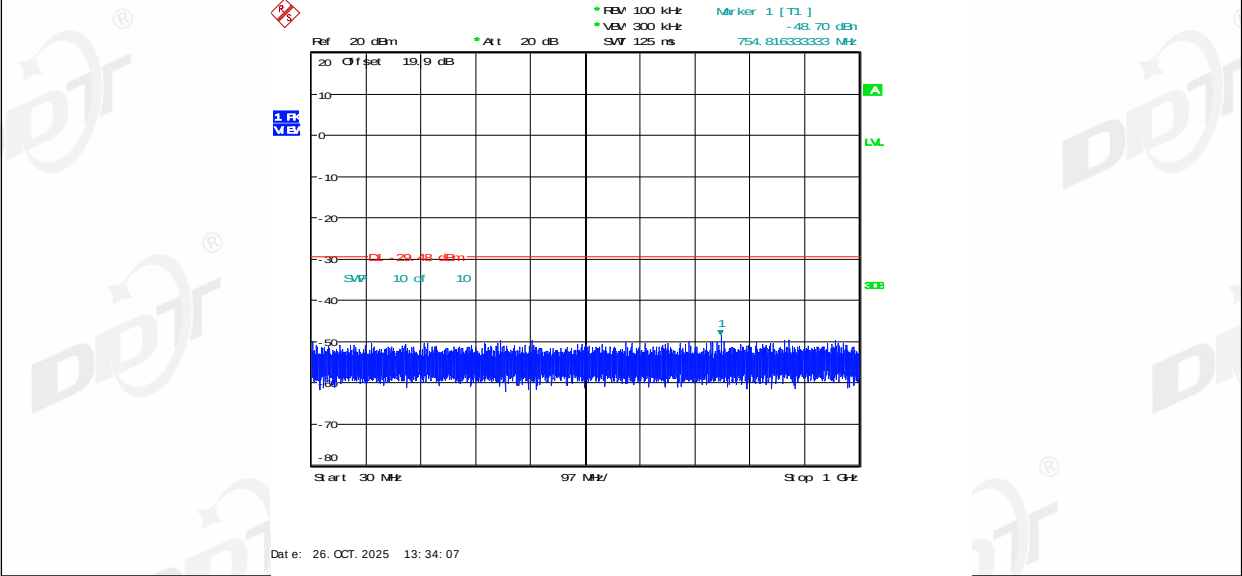
11B_Ant1_2462_1000~26500



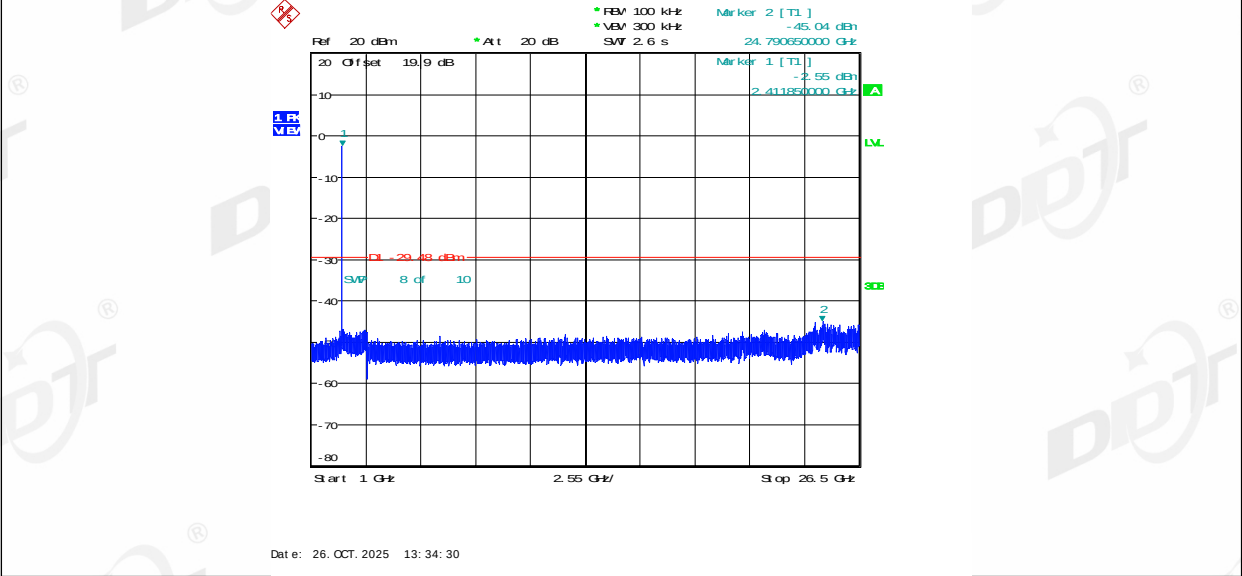
11G_Ant1_2412_0~Reference



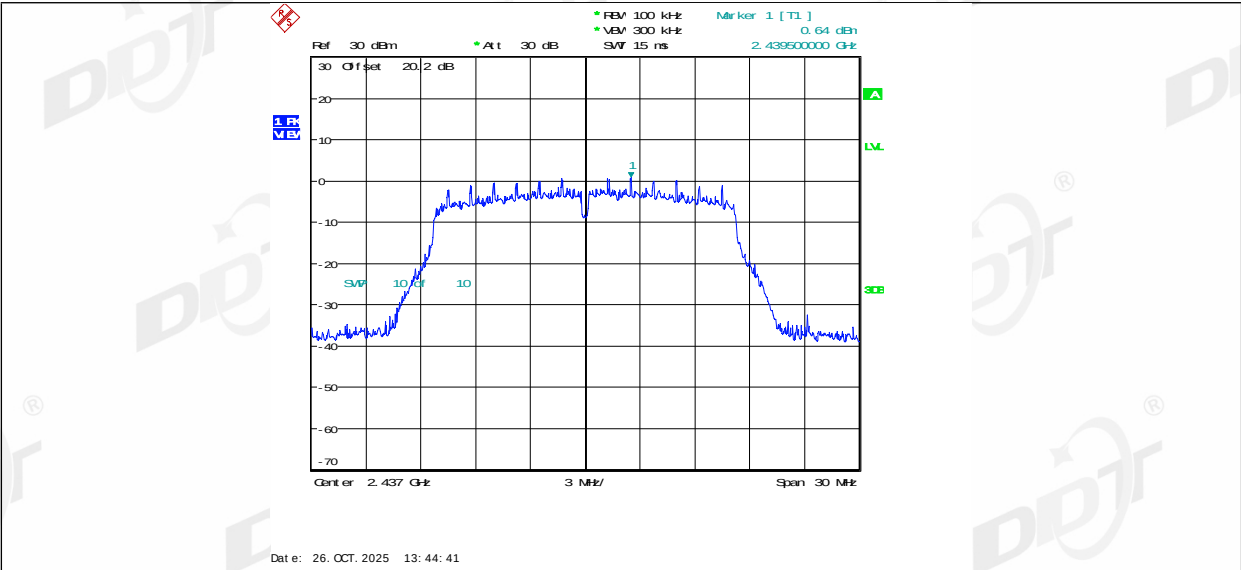
11G Ant1 2412 30~1000



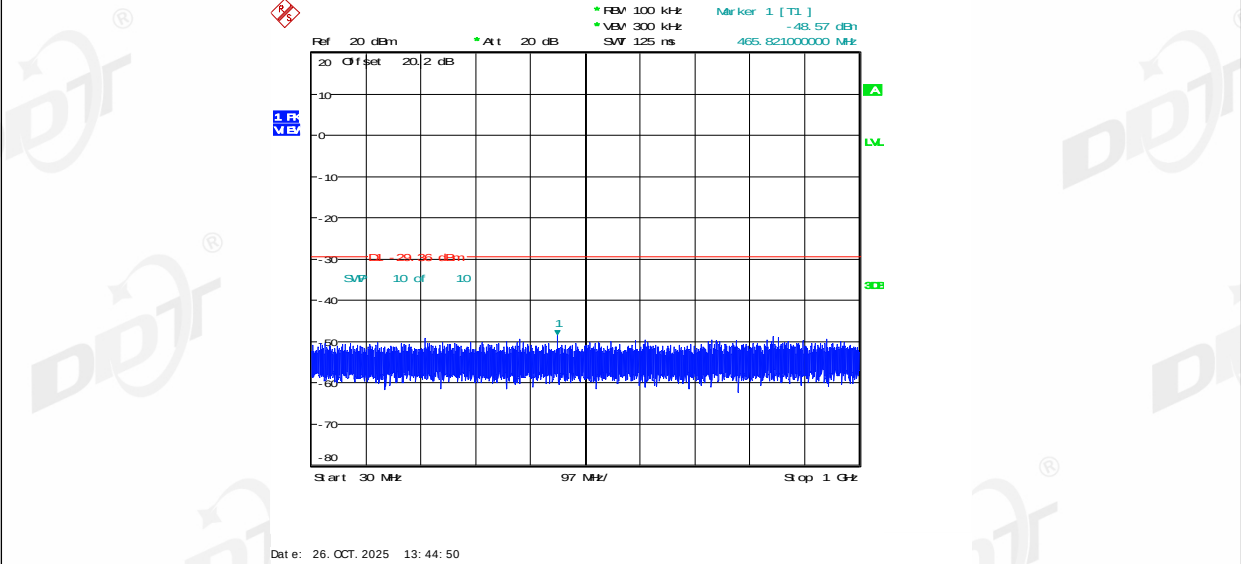
11G Ant1 2412 1000~26500



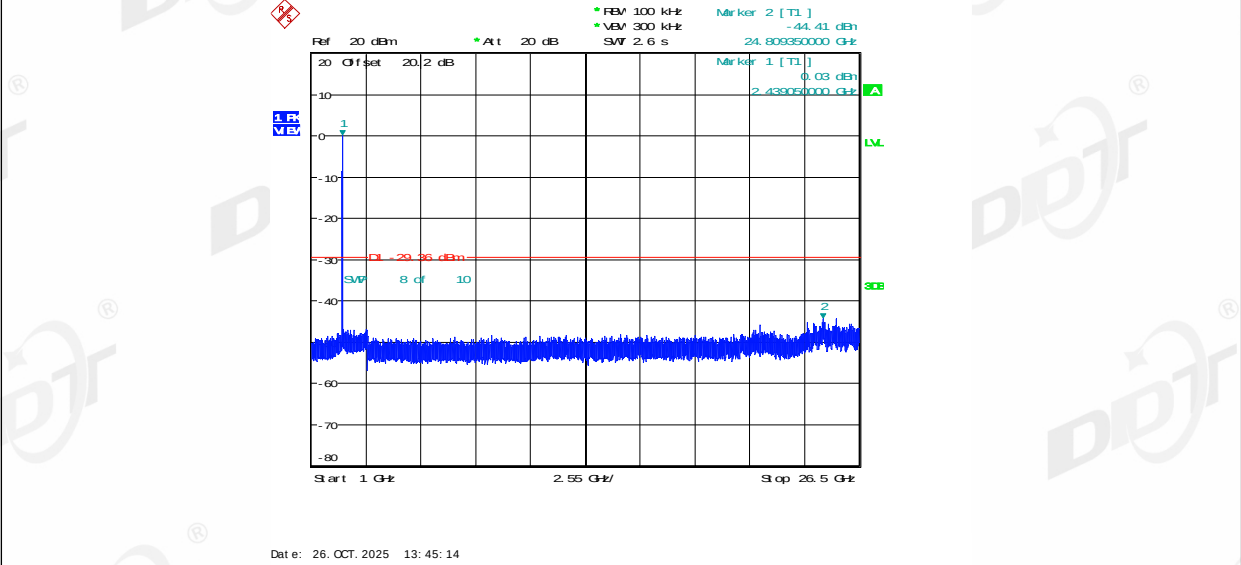
11G Ant1 2437 0~Reference



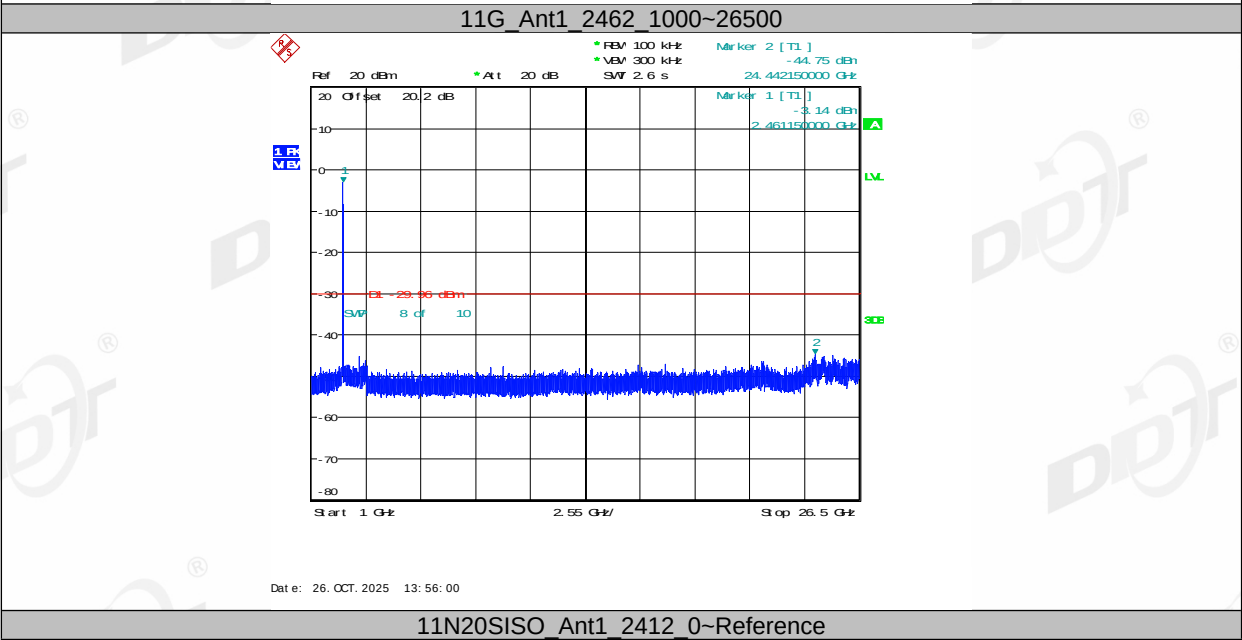
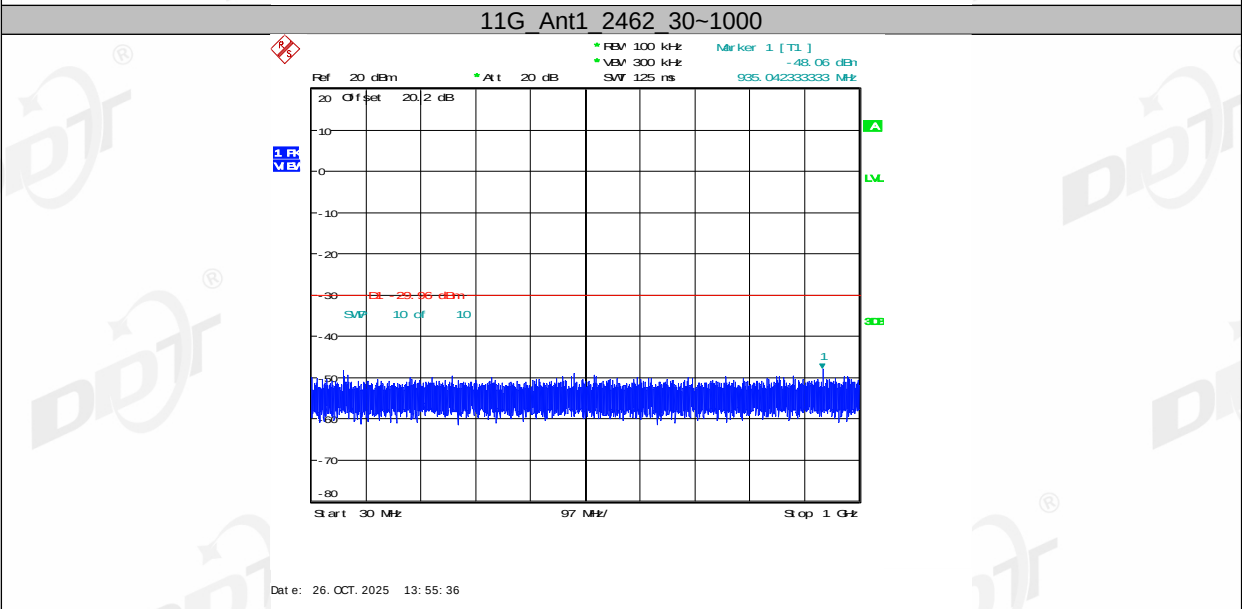
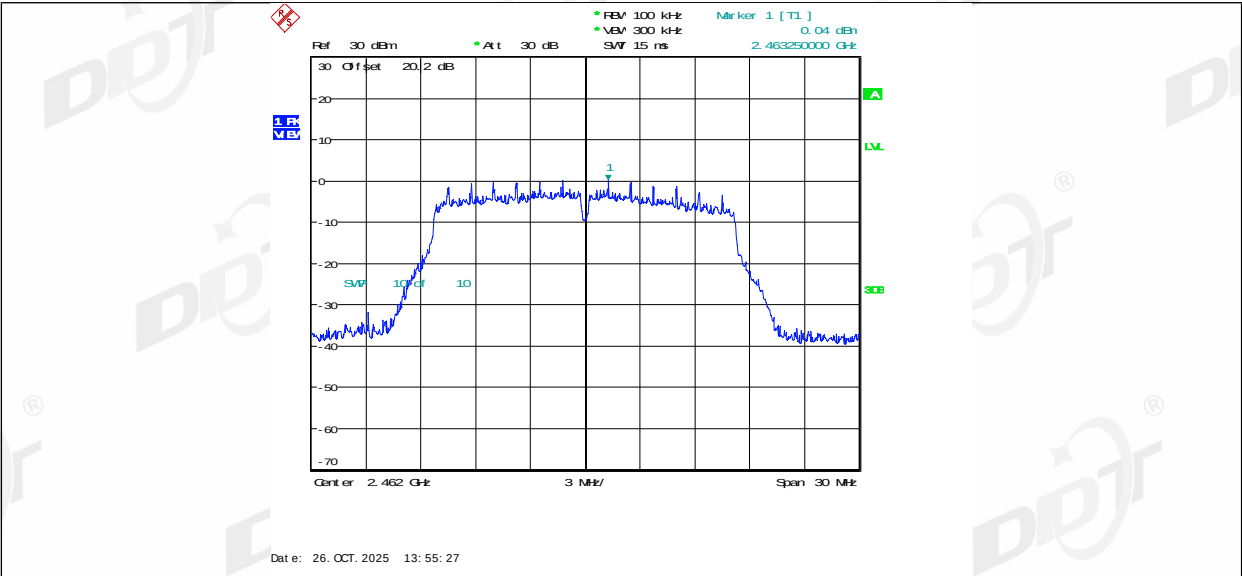
11G Ant1_2437_30~1000

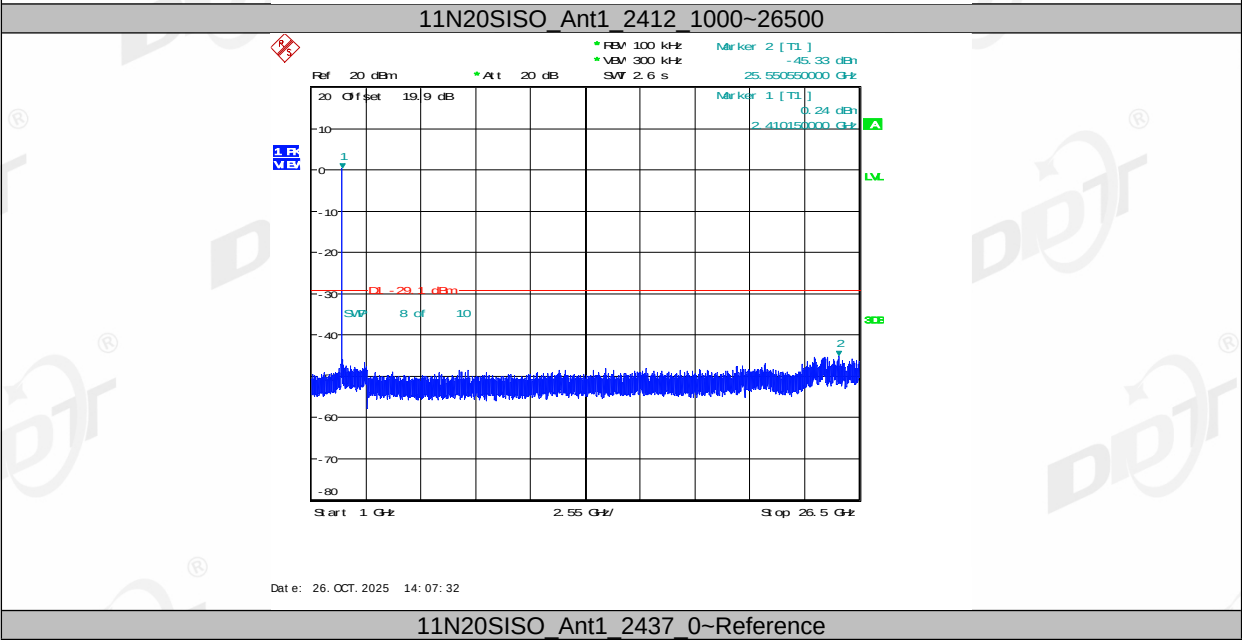
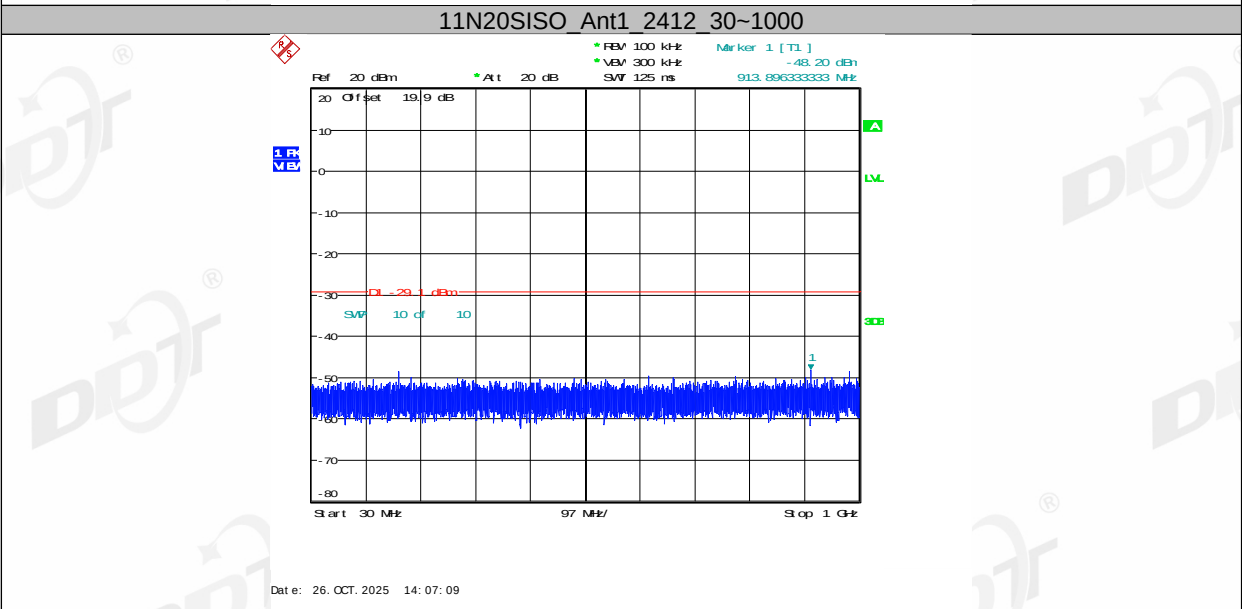
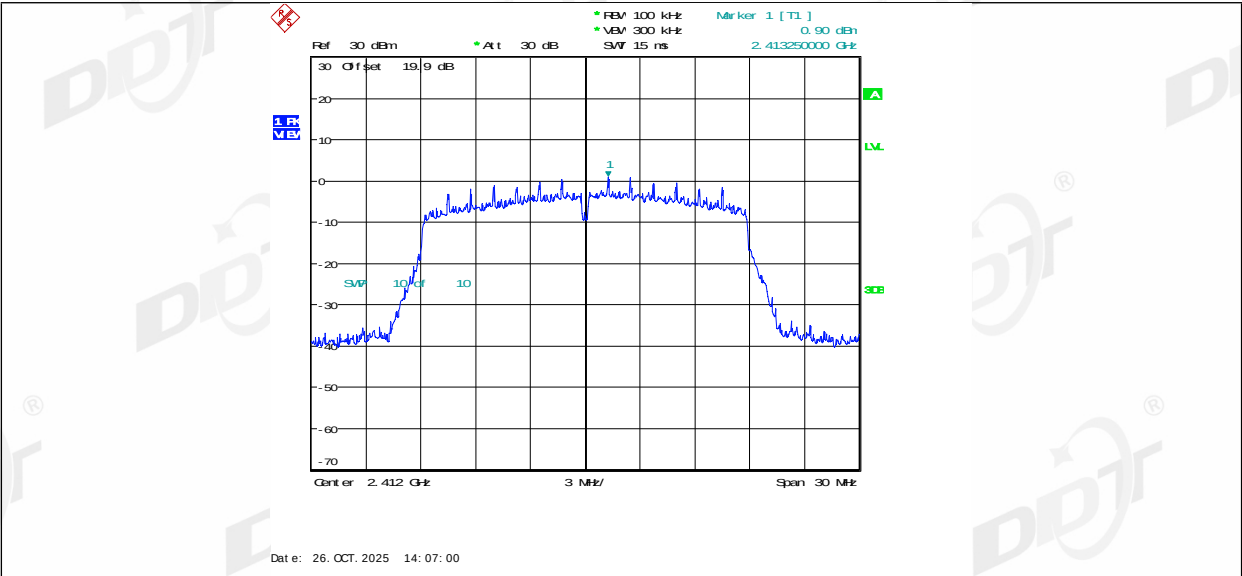


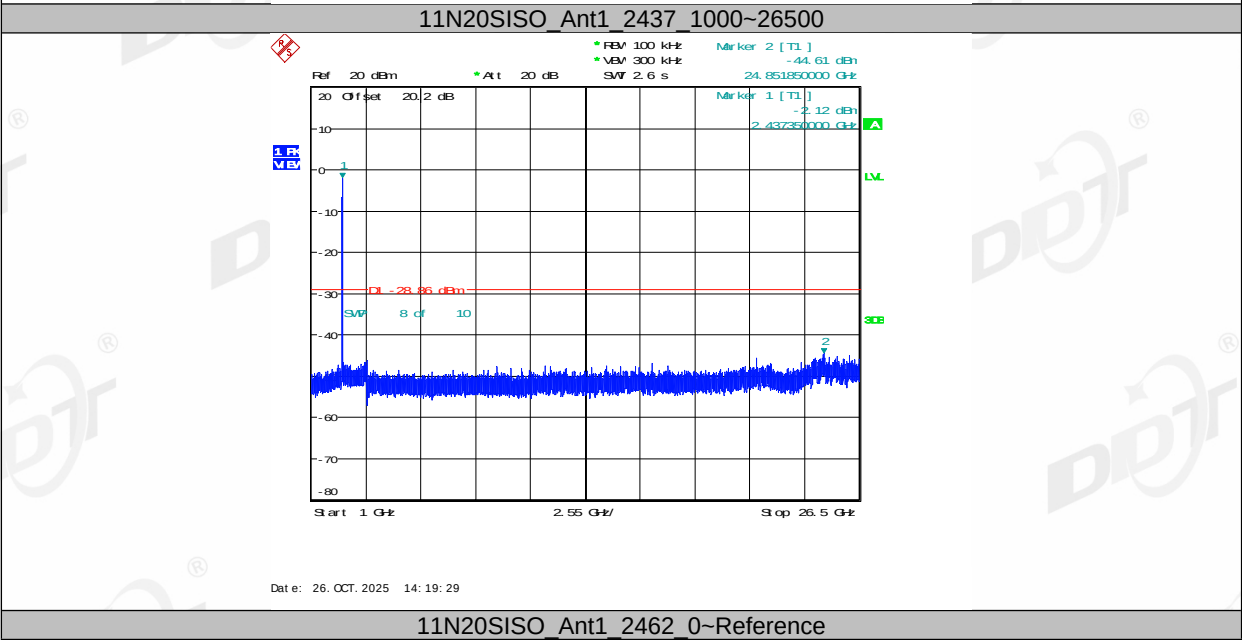
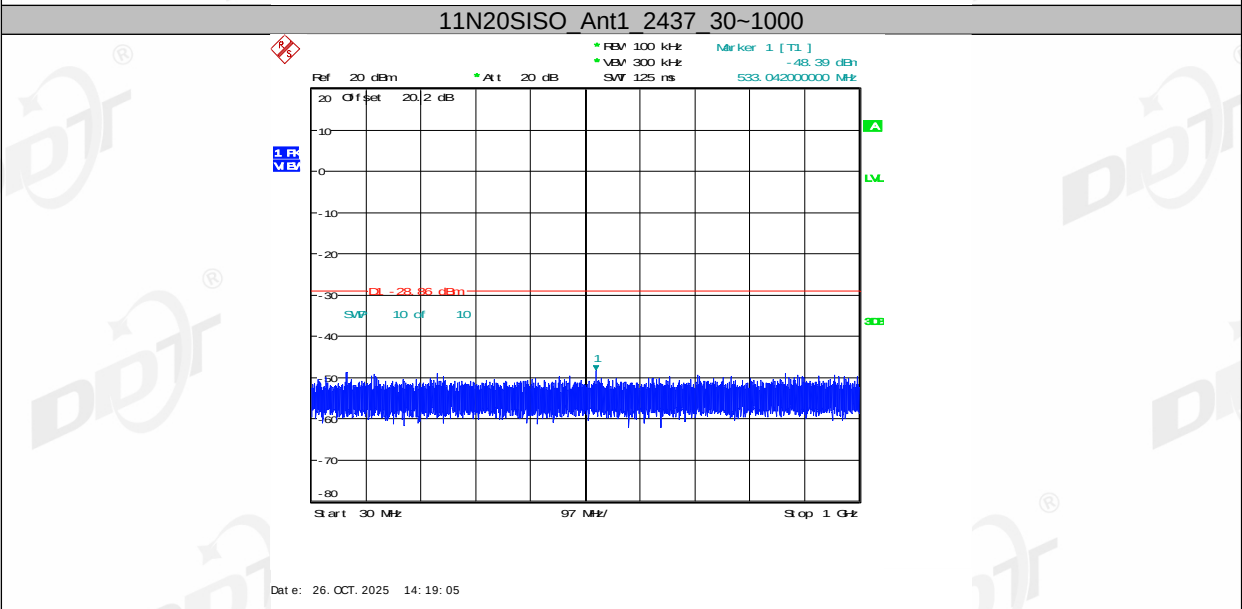
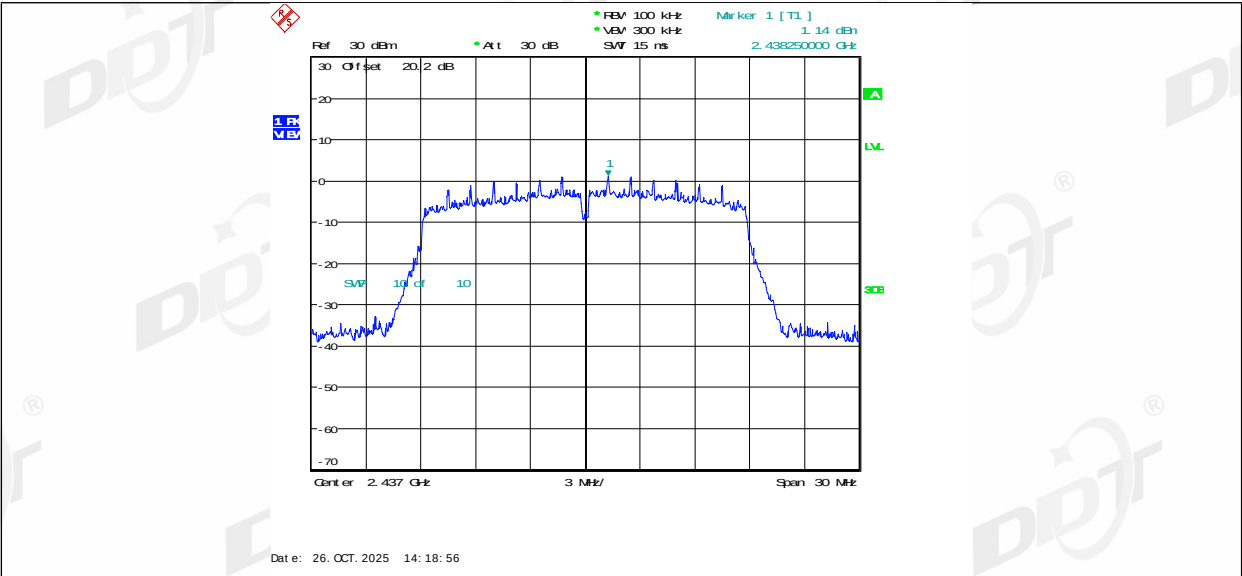
11G Ant1_2437_1000~26500

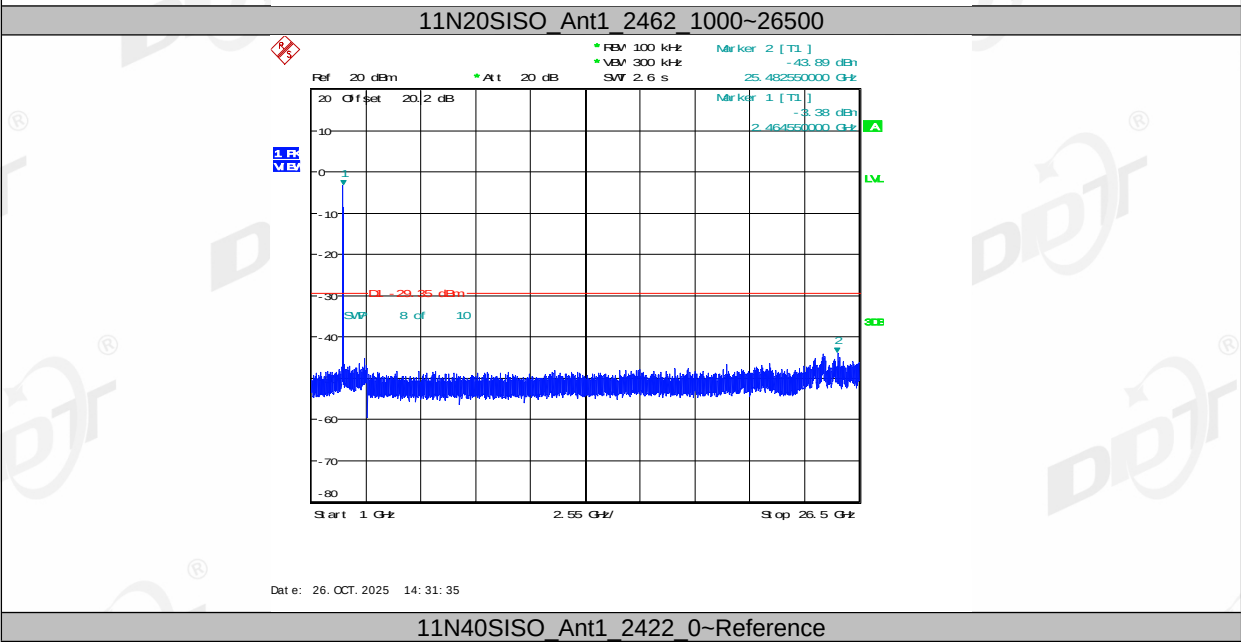
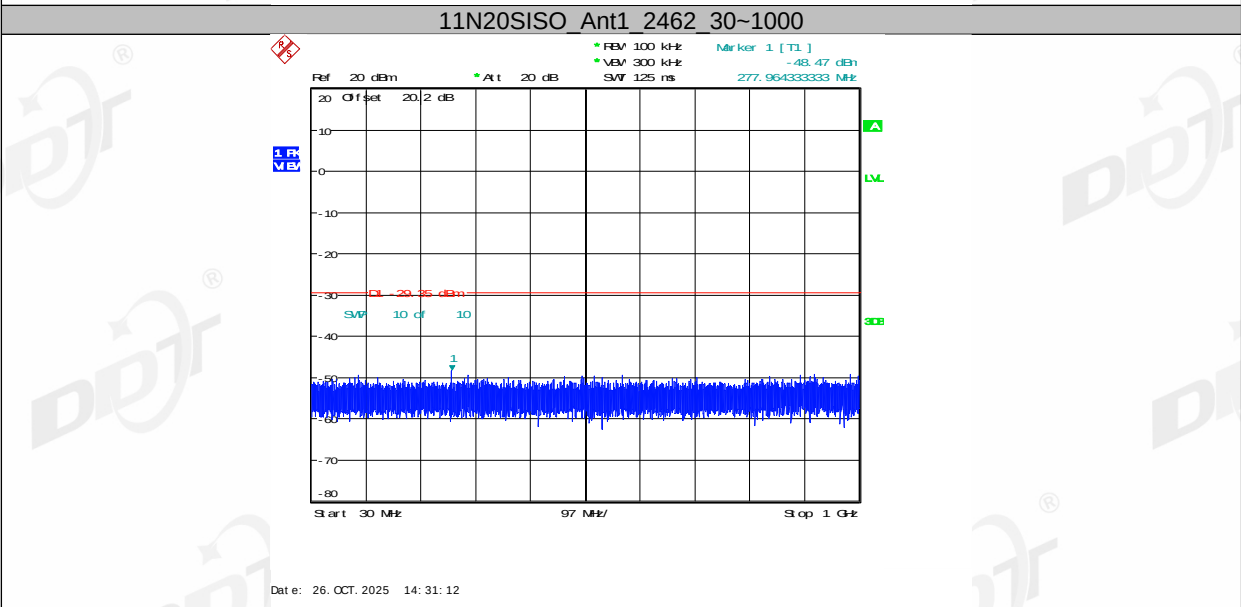
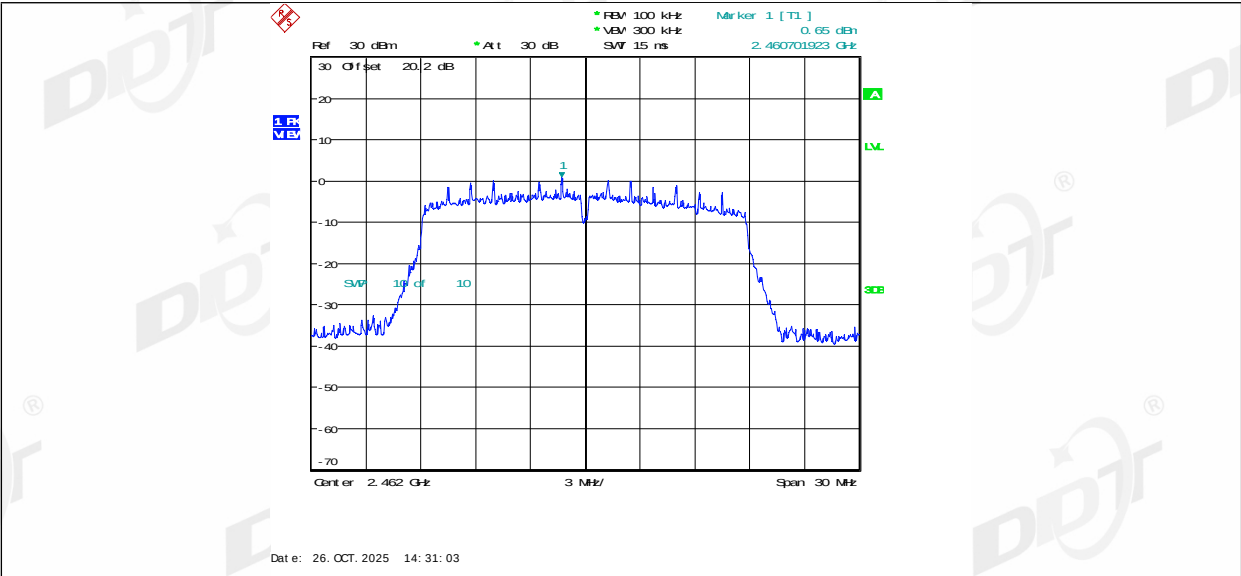


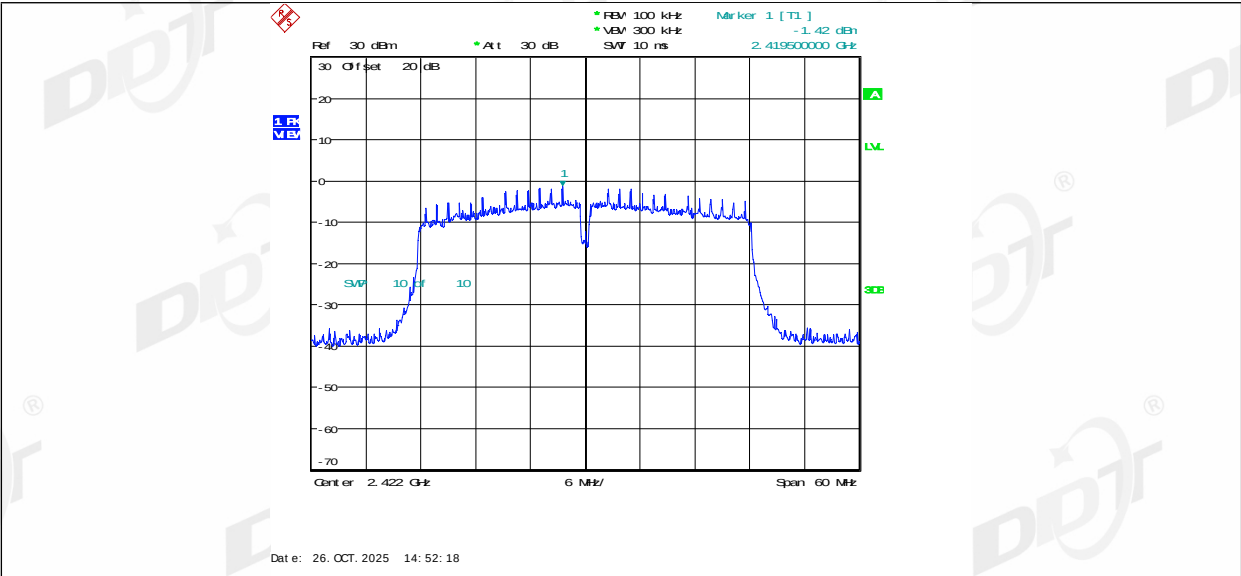
11G Ant1_2462_0~Reference



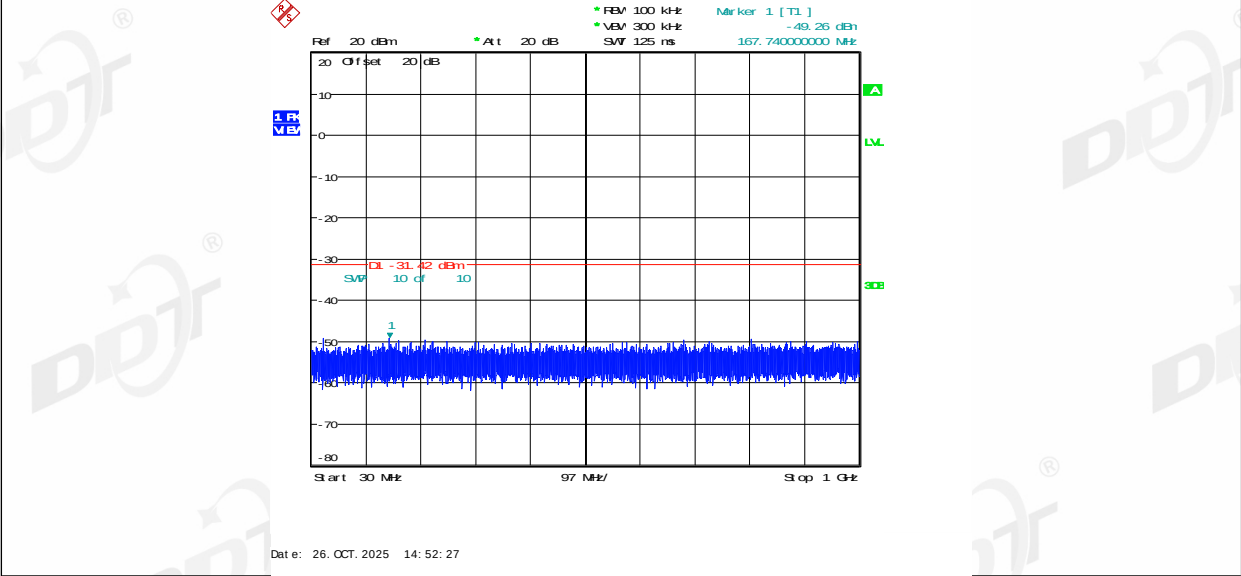




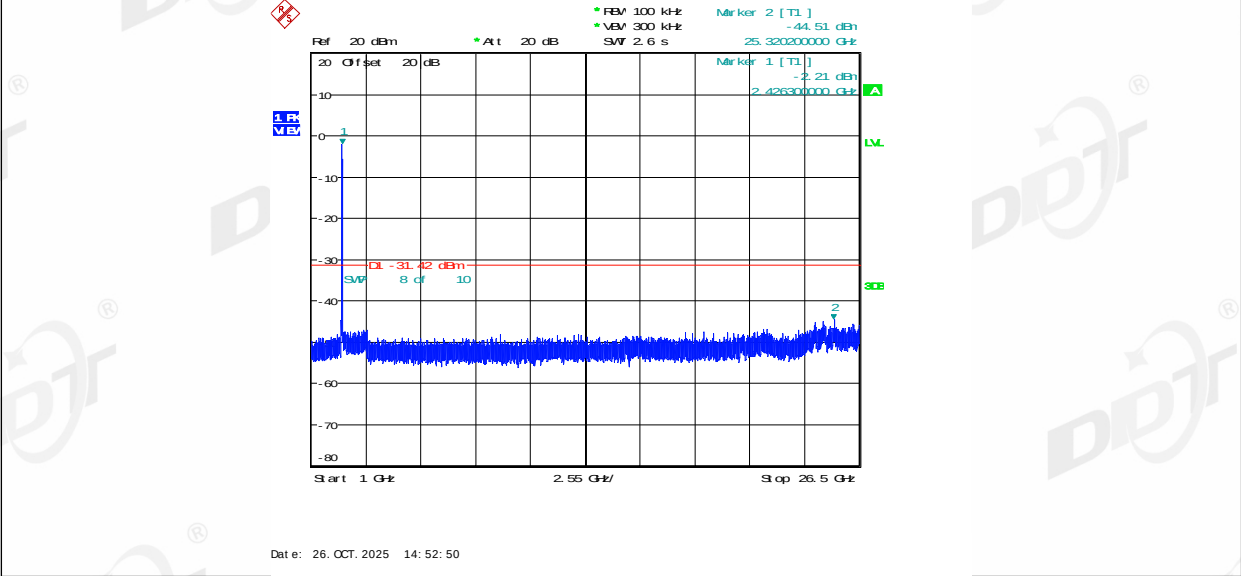




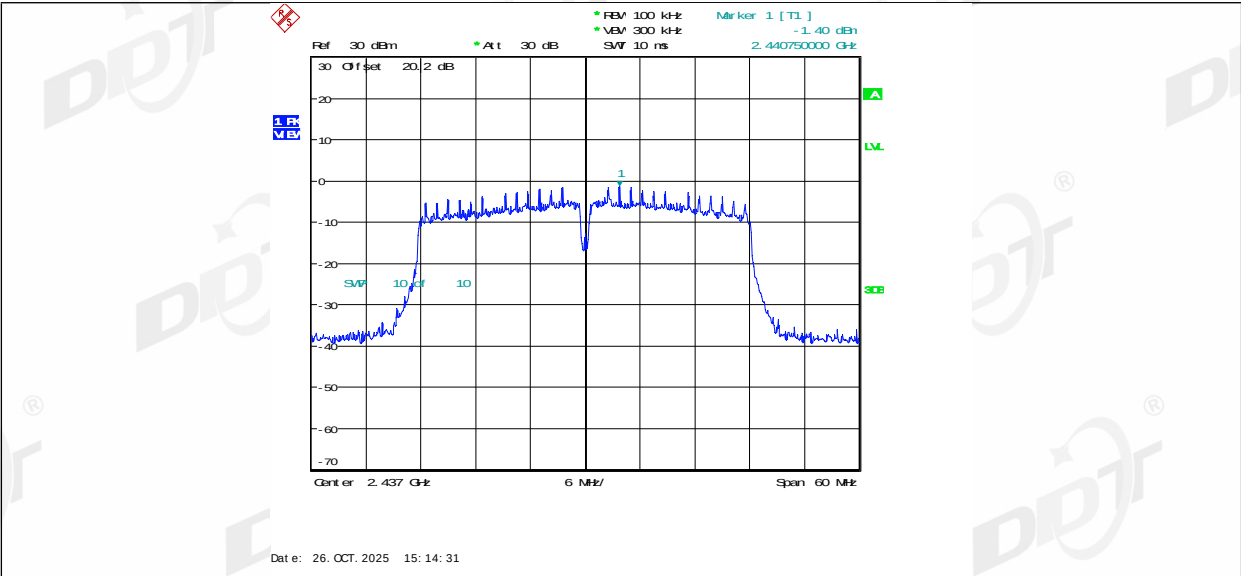
11N40SISO Ant1 2422 30~1000



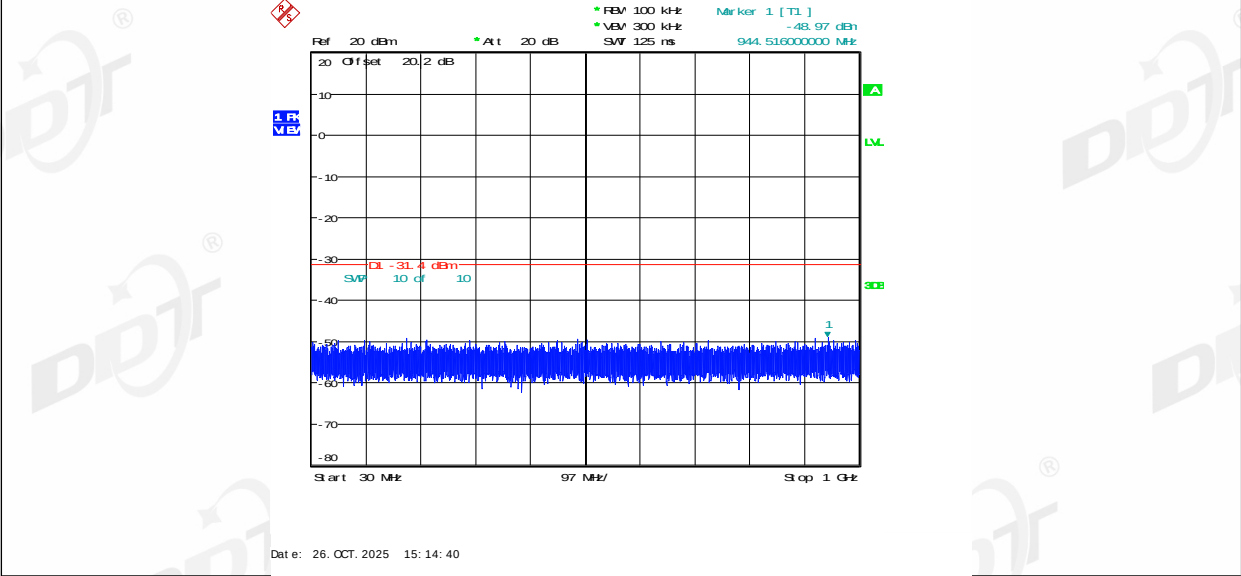
11N40SISO Ant1 2422 1000~26500



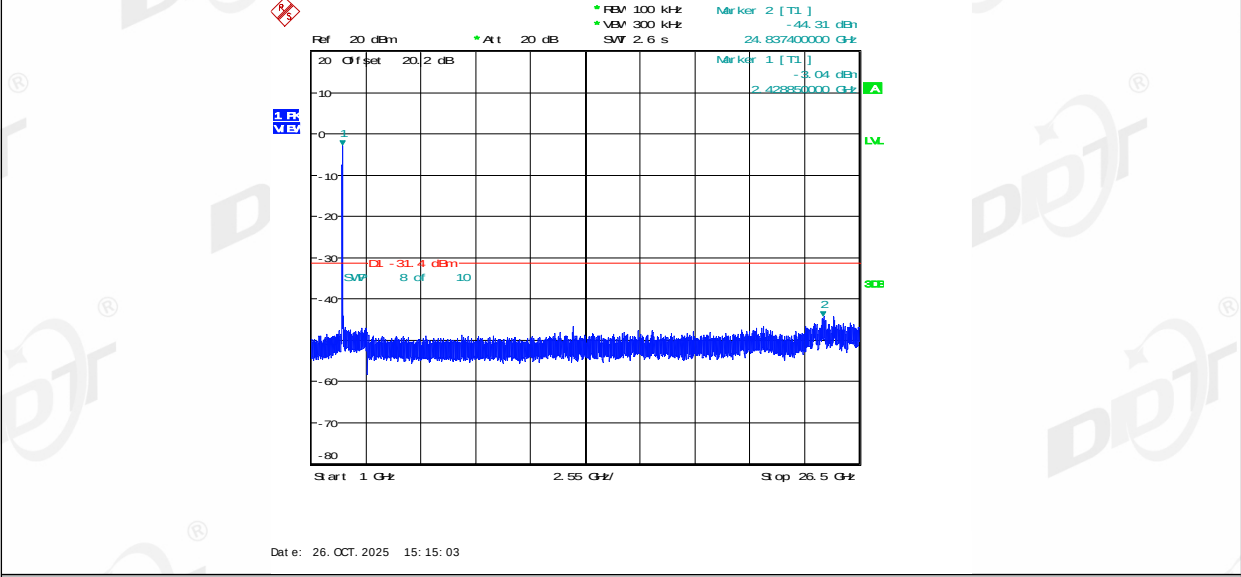
11N40SISO Ant1 2437 0~Reference



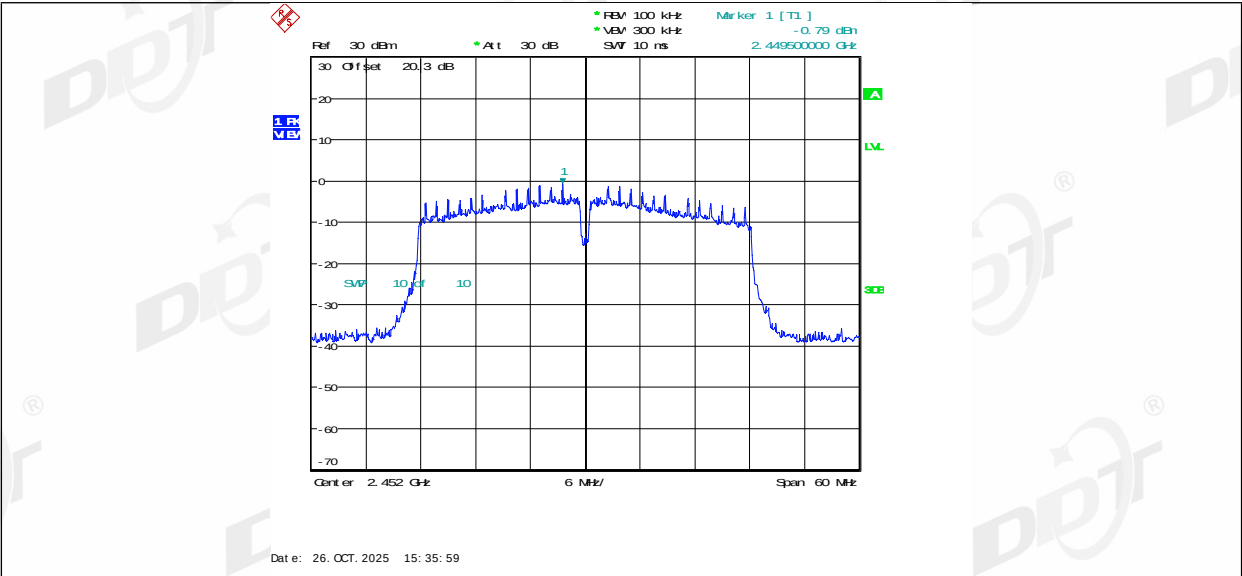
11N40SISO Ant1 2437 30~1000



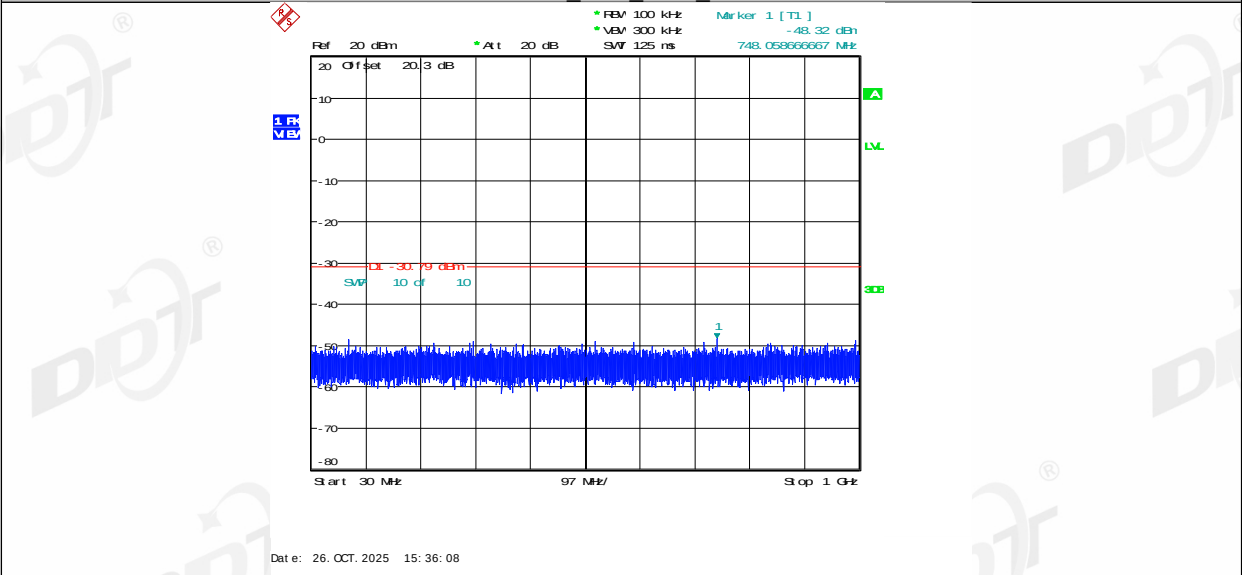
11N40SISO Ant1 2437 1000~26500



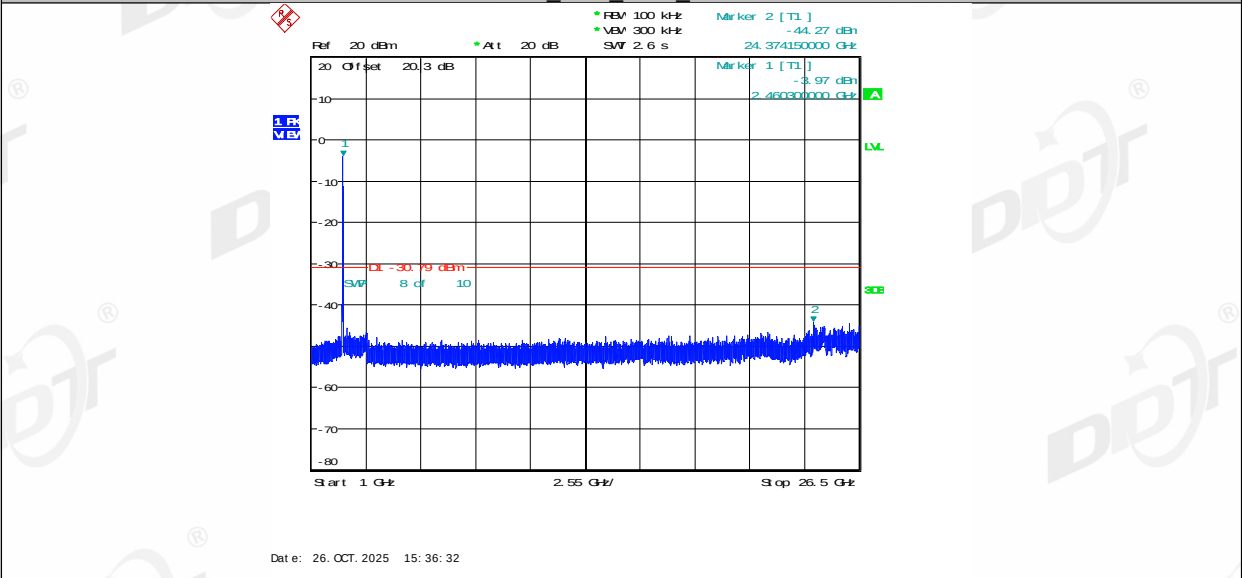
11N40SISO Ant1 2452 0~Reference



11N40SISO Ant1 2452 30~1000

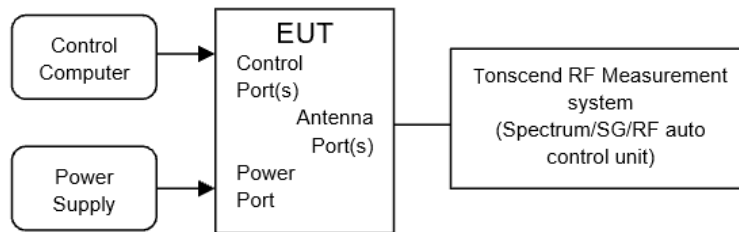


11N40SISO Ant1 2452 1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. 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:
Duty cycle= Pulse's on time / Burst cycle

10.4. Test result

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 1#
Ambient Condition:	25℃,45%RH	Test Date:	2025.10.26-2025.10.28
Test Power Supply:	Battery	Sample Number:	S25091019-002

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.40	8.43	99.64
		2437	8.40	8.45	99.41
		2462	8.41	8.45	99.53
11G	Ant1	2412	1.40	1.44	97.22
		2437	1.40	1.45	96.55
		2462	1.40	1.44	97.22
11N20SISO	Ant1	2412	1.31	1.36	96.32
		2437	1.30	1.35	96.30
		2462	1.31	1.35	97.04
11N40SISO	Ant1	2422	0.65	0.70	92.86
		2437	0.65	0.70	92.86
		2452	0.65	0.69	94.20

11B_Ant1_2412

Ref: 20 dBm, Att: 30 dB, Fbw: 10 MHz, Vbw: 10 MHz, S/W: 15 ns, Delta 2 [T1]: 0.07 dB, 8.430000 ns

Marker 1 [T1]: 2, -25.56 dBm, 5.820000 ns

Delta 1 [T1]: -0.39 dB, 8.430000 ns

TFC 9.1 dBm

1 PR, 1 CF, 1

Center: 2.412 GHz, 1.5 ns

Date: 26. OCT. 2025 12: 55: 34

11B_Ant1_2437

Ref: 20 dBm, Att: 30 dB, Fbw: 10 MHz, Vbw: 10 MHz, S/W: 15 ns, Delta 2 [T1]: -0.03 dB, 8.450000 ns

Marker 1 [T1]: 2, -25.56 dBm, 2.600000 ns

Delta 1 [T1]: -0.37 dB, 8.450000 ns

TFC 9.7 dBm

1 PR, 1 CF, 1

Center: 2.437 GHz, 1.5 ns

Date: 26. OCT. 2025 13: 04: 49

11B_Ant1_2462

Ref: 20 dBm, Att: 30 dB, Fbw: 10 MHz, Vbw: 10 MHz, S/W: 10 ns, Delta 2 [T1]: 0.20 dB, 8.450000 ns

Marker 1 [T1]: 2, -25.56 dBm, 1.140000 ns

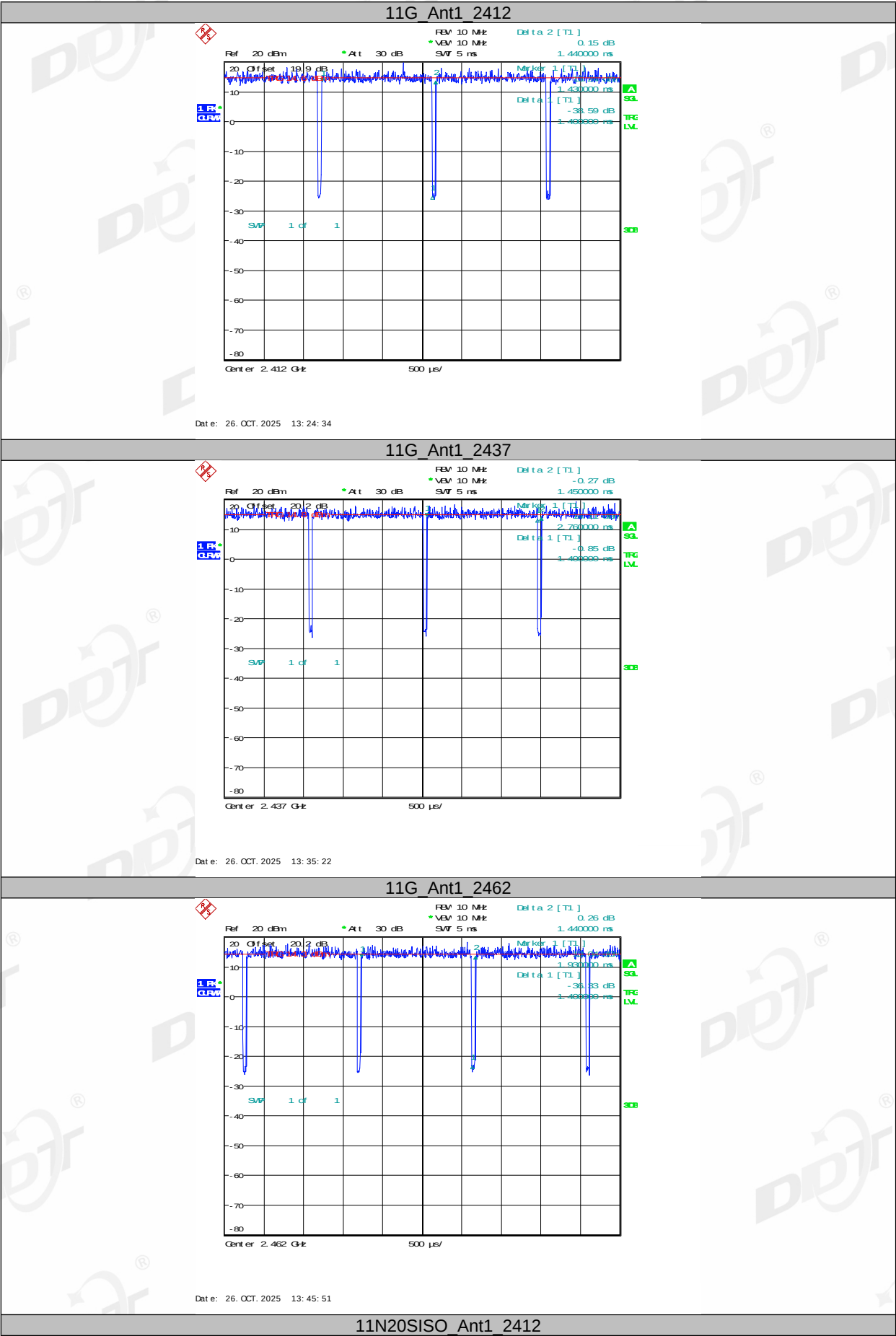
Delta 1 [T1]: -0.28 dB, 8.430000 ns

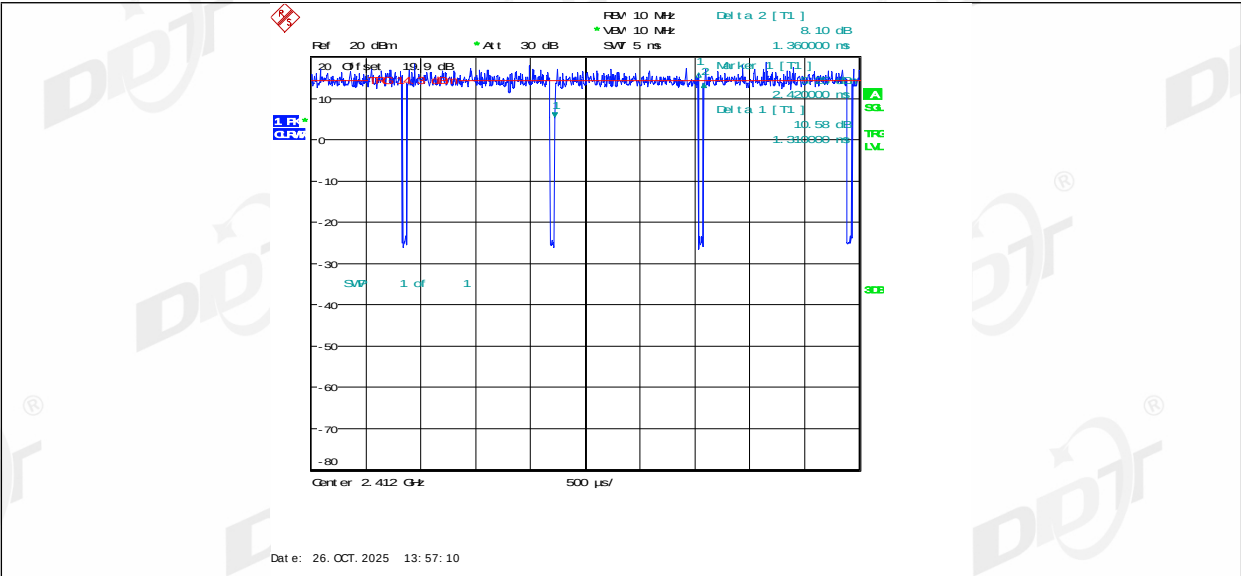
TFC 8.7 dBm

1 PR, 1 CF, 1

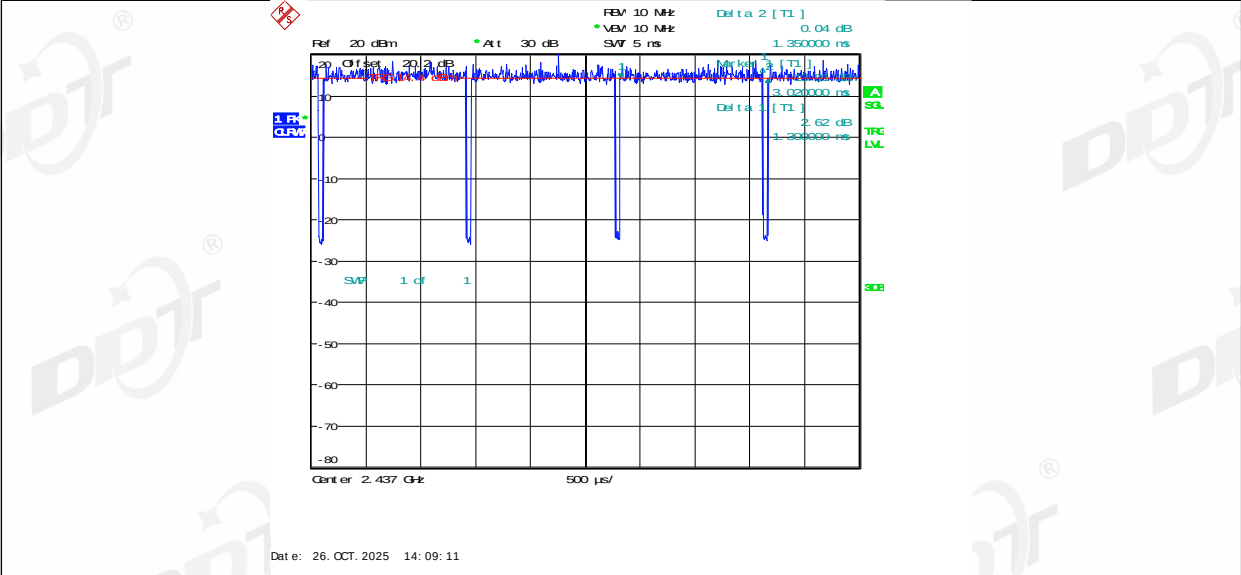
Center: 2.462 GHz, 1 ns

Date: 26. OCT. 2025 13: 14: 08

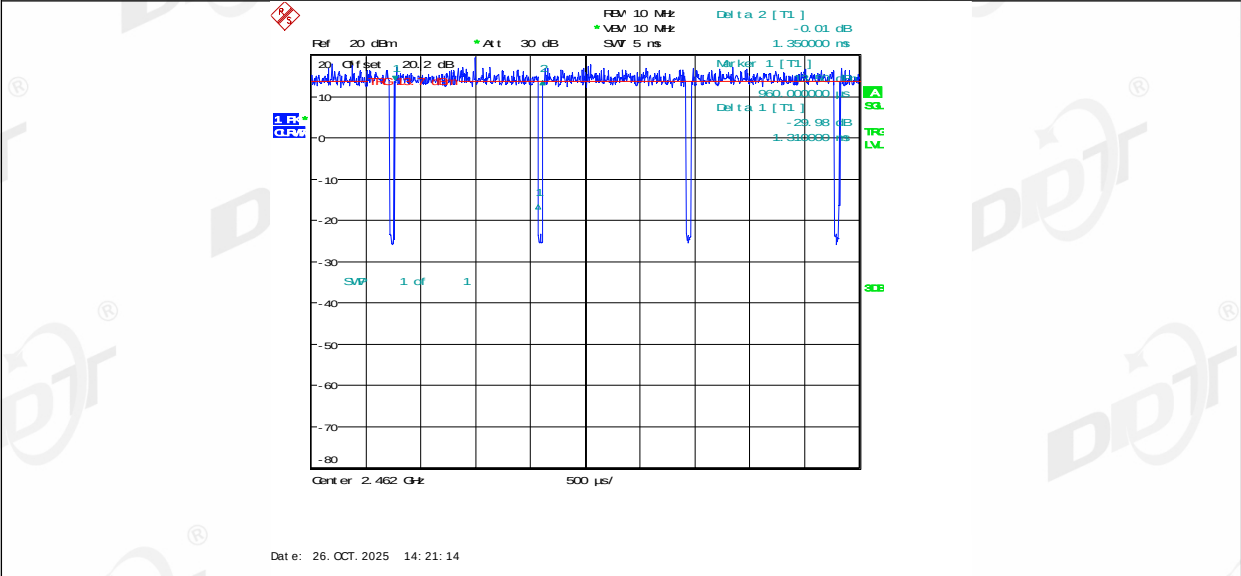




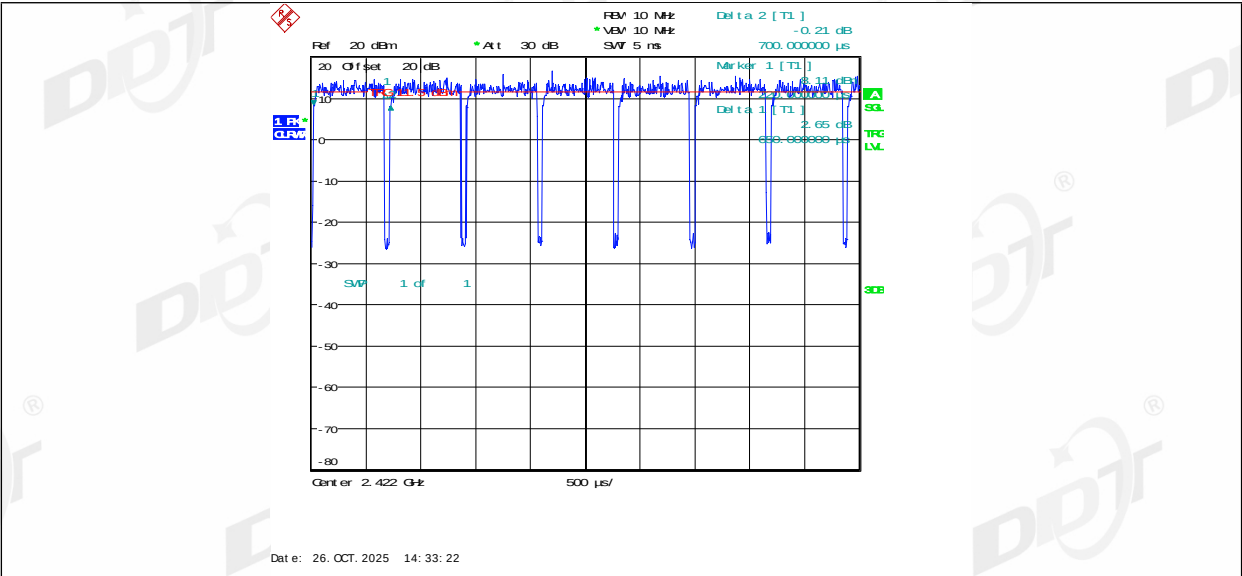
11N20SISO_Ant1_2437



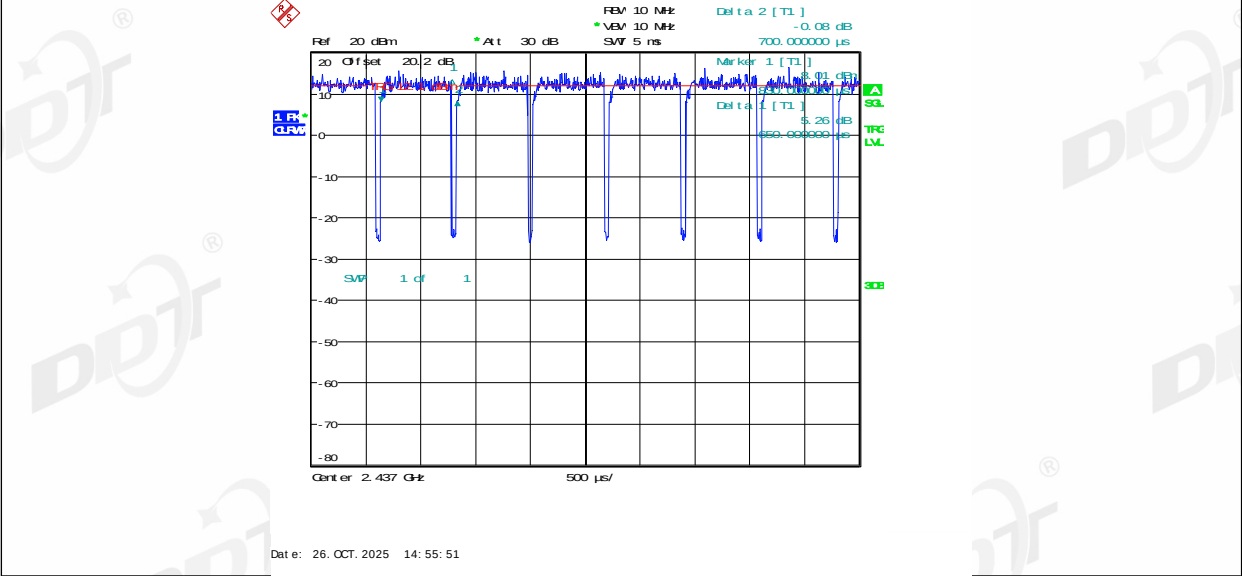
11N20SISO_Ant1_2462



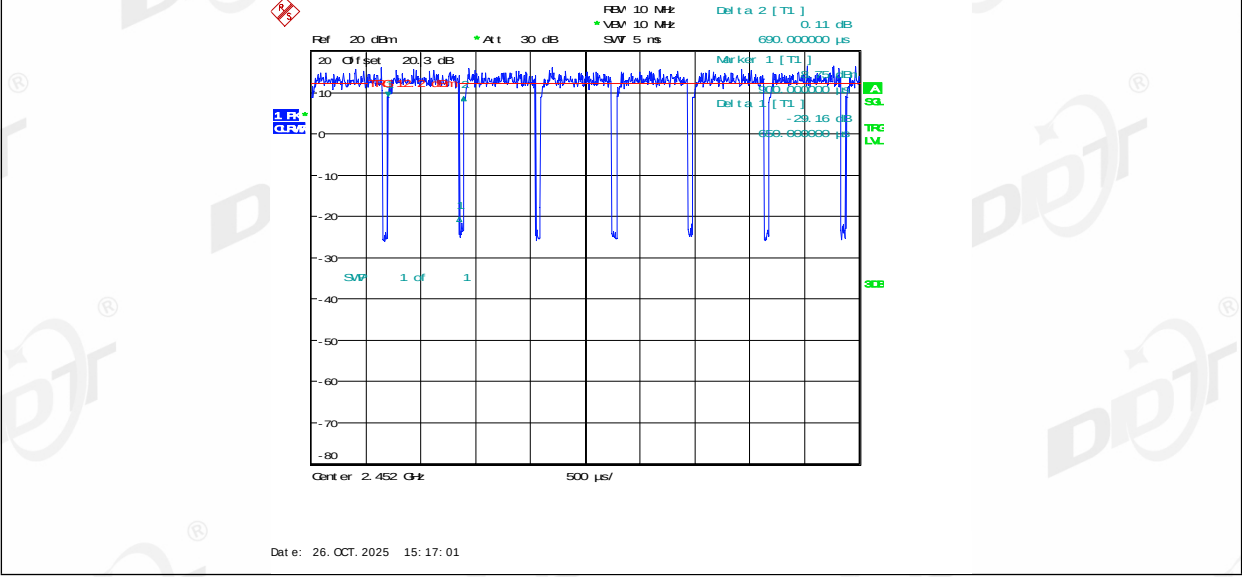
11N40SISO_Ant1_2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



11. Antenna Requirements

11.1. 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.

11.2. Result

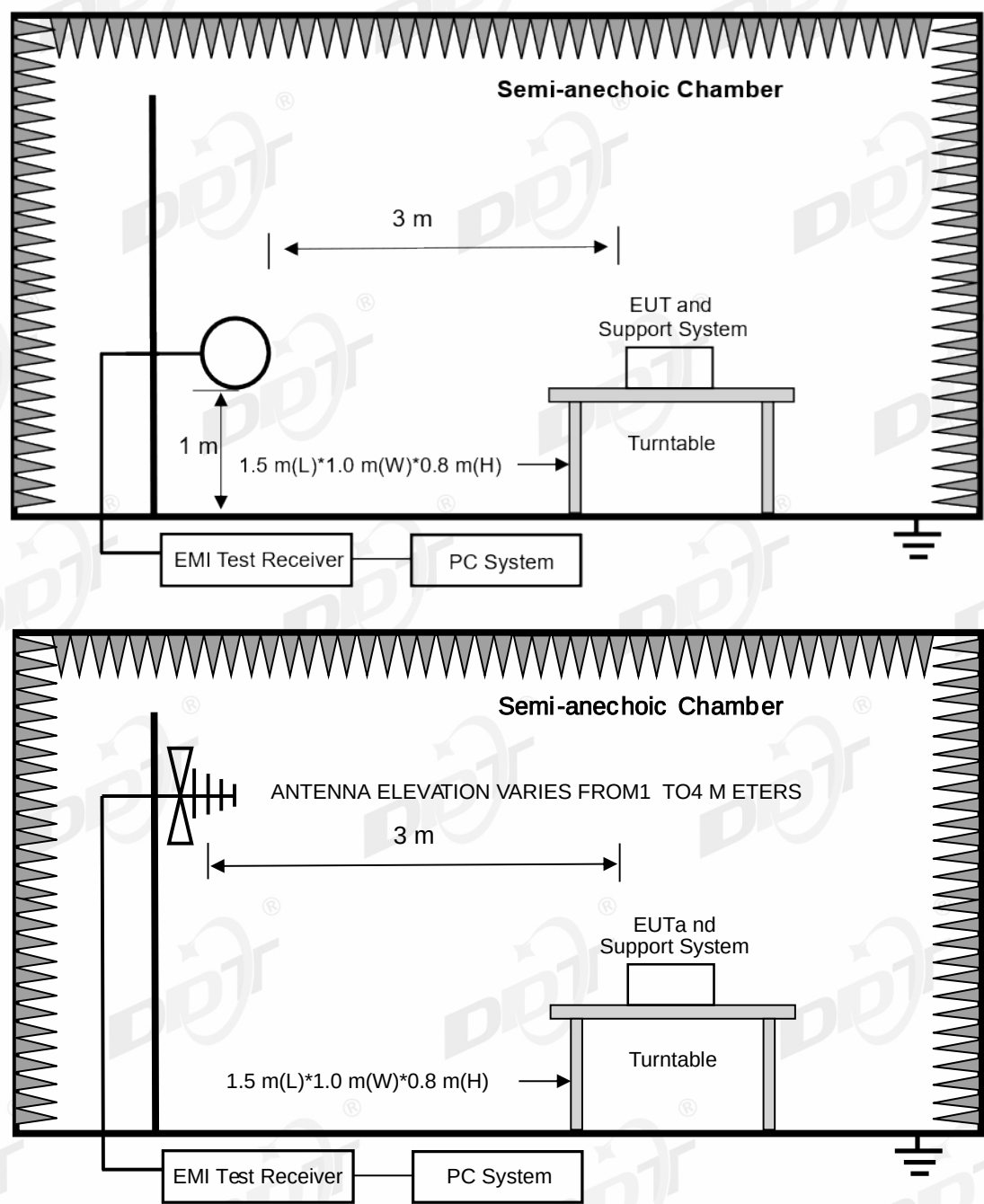
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

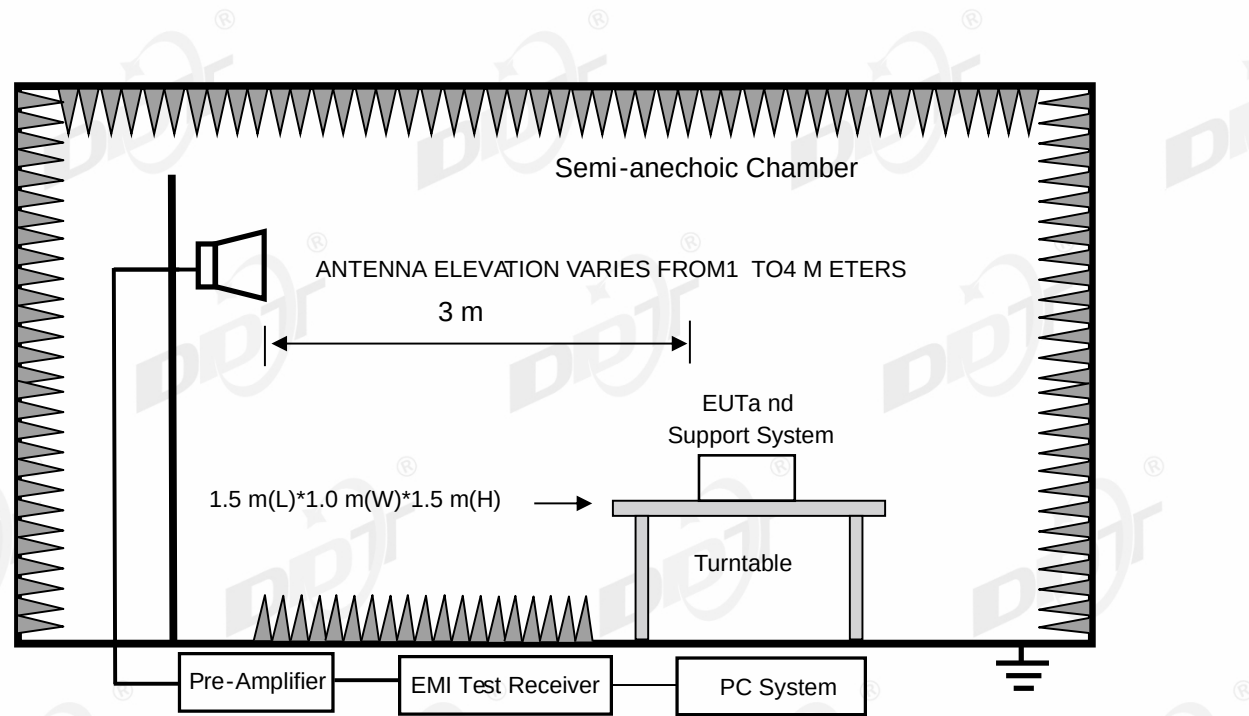
12. Radiated Emission

12.1. Test equipment

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

12.2. Block diagram of test setup





12.3. 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

(2) FCC 15.209 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:

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

12.4. Assistant equipment used for test

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

12.5. 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 30 MHz, the trilog Broadband Antenna or Horn Antenna was located 3 m 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) 30 MHz ~ 25 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.

(12) The worst simultaneous case and was recorded.

12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-16

Tested By:

Li Xiongbin

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

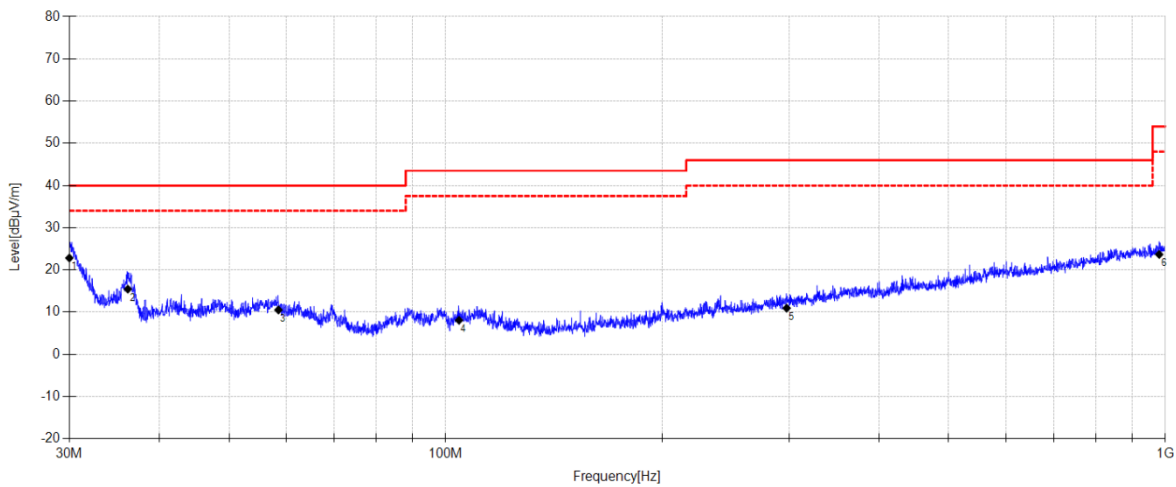
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Below 1G\3

Memo:

Sample Numbel:S25091019-002



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	30.000	40.85	10.50	3.78	22.83	40.00	17.17	QP	Horizontal
2	36.177	31.93	11.95	3.87	15.45	40.00	24.55	QP	Horizontal
3	58.564	26.16	12.61	4.05	10.52	40.00	29.48	QP	Horizontal
4	104.364	25.08	10.96	4.33	8.07	43.50	35.43	QP	Horizontal
5	297.713	24.62	13.46	5.27	10.95	46.00	35.05	QP	Horizontal
6	980.559	25.54	22.24	7.31	23.67	54.00	30.33	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:

2025-10-16

Tested By:

Li Xiongbin

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

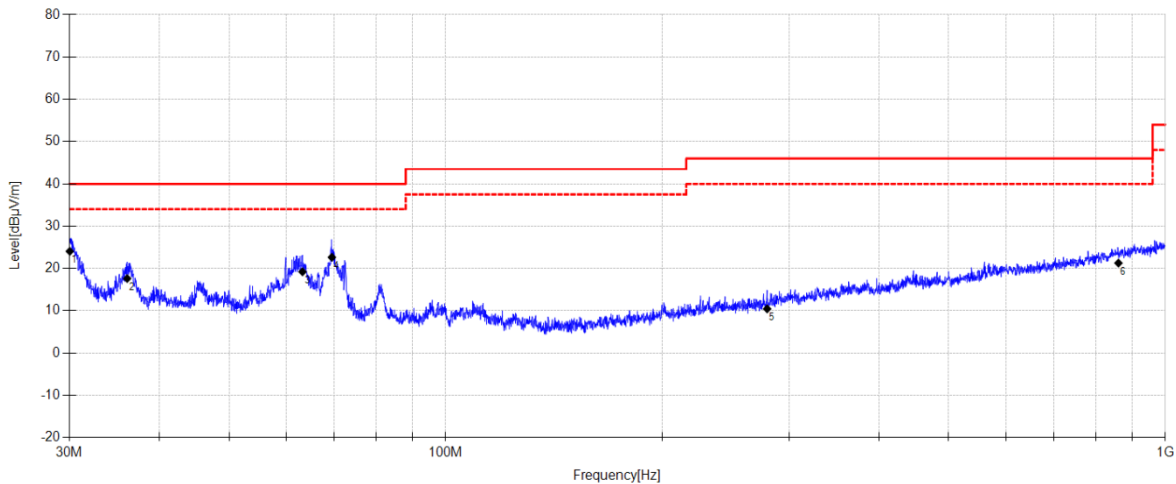
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Below 1G\4

Memo:

Sample Numbler:S25091019-002



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	30.042	42.08	10.49	3.78	24.05	40.00	15.95	QP	Vertical
2	36.100	34.12	11.93	3.87	17.62	40.00	22.38	QP	Vertical
3	63.259	35.06	12.35	4.10	19.21	40.00	20.79	QP	Vertical
4	69.491	40.66	10.11	4.16	22.63	40.00	17.37	QP	Vertical
5	279.703	24.58	13.06	5.20	10.44	46.00	35.56	QP	Vertical
6	860.664	25.1	21.27	7.04	21.27	46.00	24.73	QP	Vertical

Note:

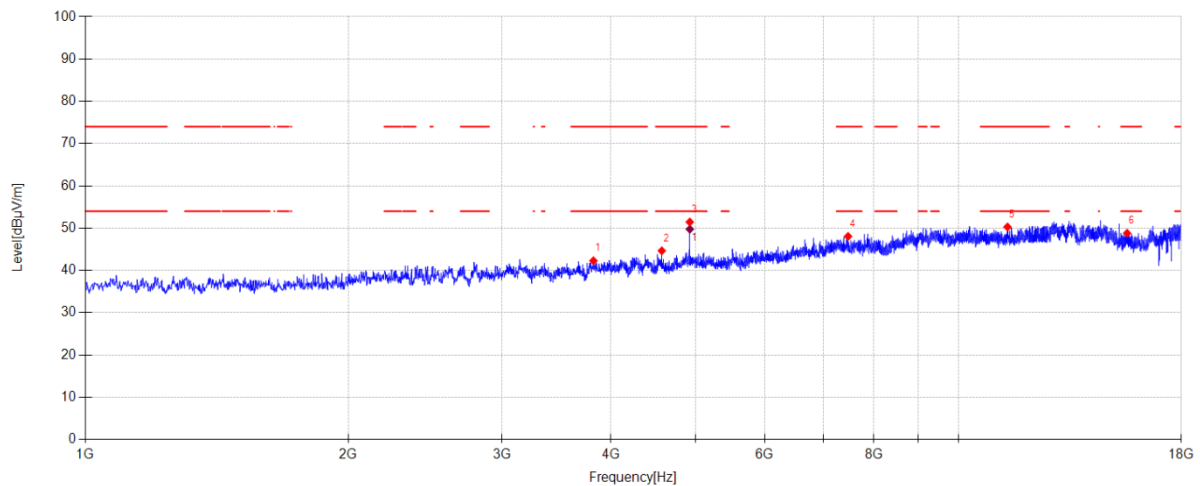
1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11B 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\11
Memo: Sample Numbler:S25091019-002

**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	3818.600	47.17	30.68	4.07	-39.63	42.29	74.00	31.71	PK	Horizontal
2	4573.400	48.31	31.77	4.33	-39.76	44.65	74.00	29.35	PK	Horizontal
3	4923.600	53.64	33.10	4.50	-39.79	51.45	74.00	22.55	PK	Horizontal
4	7473.600	45.74	36.74	5.42	-39.85	48.05	74.00	25.95	PK	Horizontal
5	11380.200	43.65	39.56	6.67	-39.60	50.28	74.00	23.72	PK	Horizontal
6	15601.300	41.15	38.99	7.83	-39.16	48.81	74.00	25.19	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	4924.025	51.95	33.10	4.50	49.76	54.00	4.24	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:

2025-10-10

Tested By:

Li Xiongbín

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

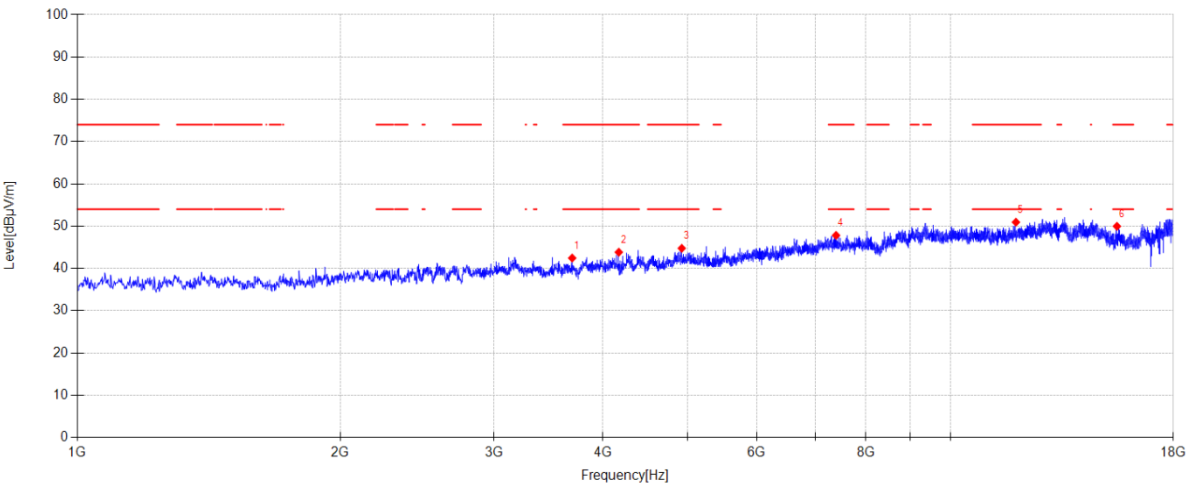
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\12

Memo:

Sample Numbler:S25091019-002



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	3687.700	48.15	29.78	4.10	-39.58	42.45	74.00	31.55	PK	Vertical
2	4170.500	48.13	31.30	4.13	-39.72	43.84	74.00	30.16	PK	Vertical
3	4923.600	46.96	33.10	4.50	-39.79	44.77	74.00	29.23	PK	Vertical
4	7395.400	45.55	36.73	5.40	-39.86	47.82	74.00	26.18	PK	Vertical
5	11885.100	45.03	38.51	7.00	-39.60	50.94	74.00	23.06	PK	Vertical
6	15512.900	42.68	38.56	7.79	-39.06	49.97	74.00	24.03	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:

2025-10-10

Tested By:

Li Xiongbin

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2437MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

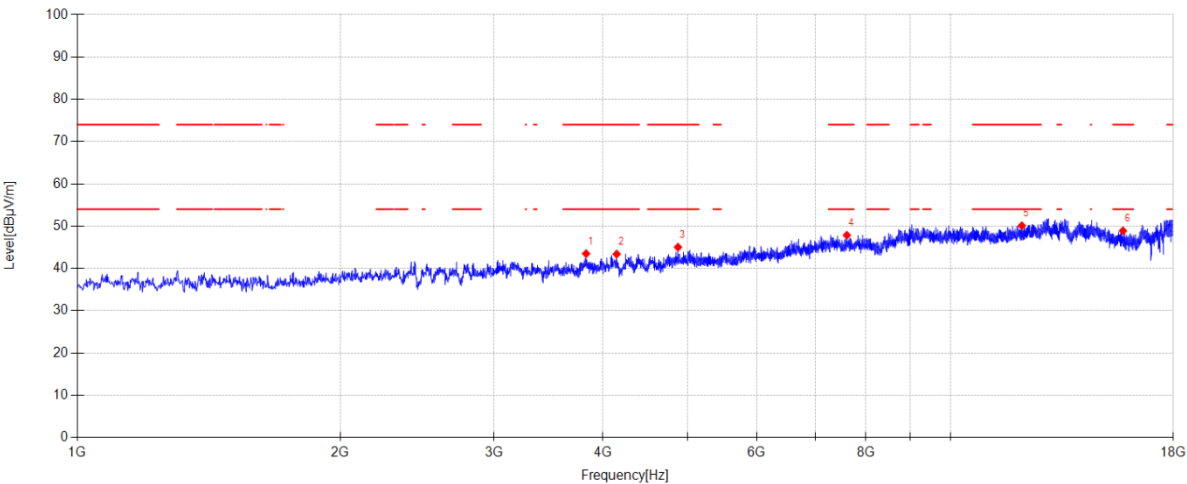
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\13

Memo:

Sample Numbler:S25091019-002



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	3825.400	48.45	30.60	4.07	-39.63	43.49	74.00	30.51	PK	Horizontal
2	4146.700	47.53	31.47	4.11	-39.71	43.40	74.00	30.60	PK	Horizontal
3	4874.300	47.34	33.00	4.48	-39.79	45.03	74.00	28.97	PK	Horizontal
4	7609.600	45.90	36.35	5.45	-39.84	47.86	74.00	26.14	PK	Horizontal
5	12072.100	43.26	39.36	7.04	-39.54	50.12	74.00	23.88	PK	Horizontal
6	15759.400	42.01	38.32	7.90	-39.34	48.89	74.00	25.11	PK	Horizontal

Note:

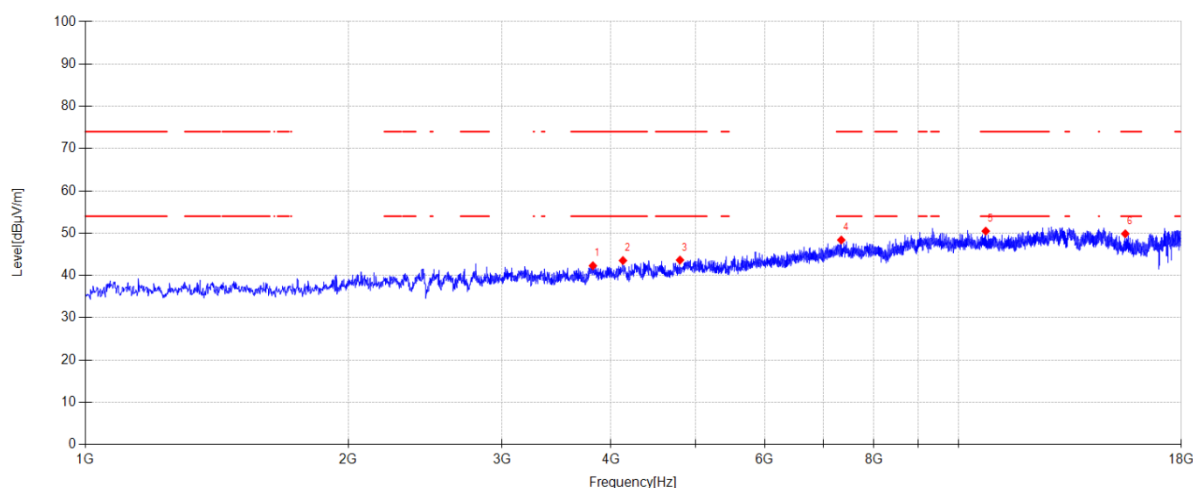
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11B 2437MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\14
Memo: Sample Numbler:S25091019-002

**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	3813.500	47.10	30.74	4.08	-39.63	42.29	74.00	31.71	PK	Vertical
2	4128.000	47.81	31.32	4.10	-39.71	43.52	74.00	30.48	PK	Vertical
3	4797.800	46.87	32.10	4.44	-39.78	43.63	74.00	30.37	PK	Vertical
4	7341.000	45.87	37.00	5.38	-39.87	48.38	74.00	25.62	PK	Vertical
5	10746.100	44.36	39.27	6.48	-39.63	50.48	74.00	23.52	PK	Vertical
6	15526.500	42.52	38.63	7.79	-39.08	49.86	74.00	24.14	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:

2025-10-10

Tested By:

Li Xiongbin

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

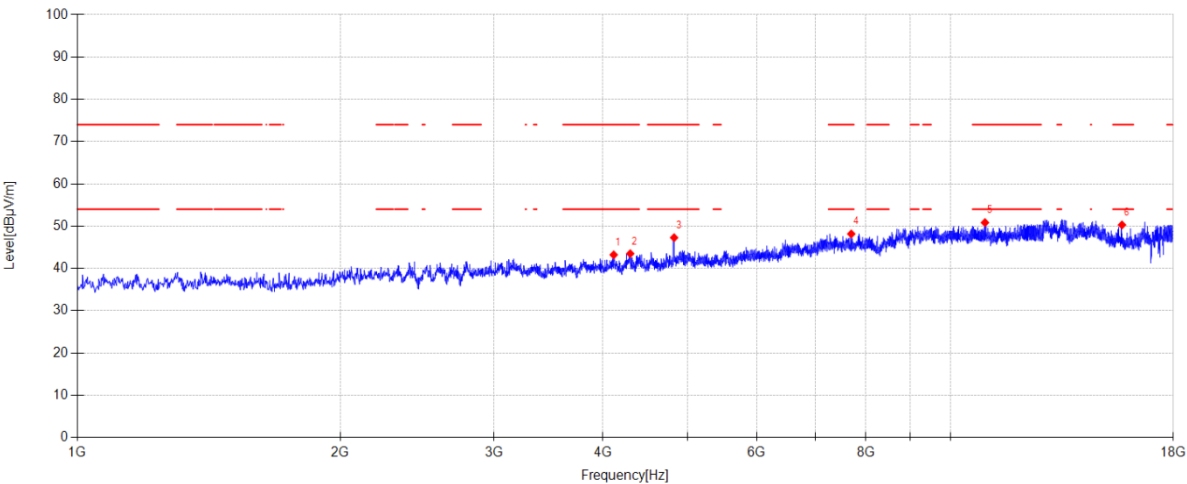
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\15

Memo:

Sample Numbler:S25091019-002



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	4114.400	47.61	31.22	4.10	-39.71	43.22	74.00	30.78	PK	Horizontal
2	4298.000	47.06	31.97	4.19	-39.73	43.49	74.00	30.51	PK	Horizontal
3	4825.000	50.11	32.50	4.45	-39.78	47.28	74.00	26.72	PK	Horizontal
4	7698.000	45.81	36.71	5.48	-39.83	48.17	74.00	25.83	PK	Horizontal
5	10953.500	44.35	39.65	6.44	-39.60	50.84	74.00	23.16	PK	Horizontal
6	15720.300	43.27	38.44	7.88	-39.29	50.30	74.00	23.70	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:

2025-10-10

Tested By:

Li Xiongbín

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

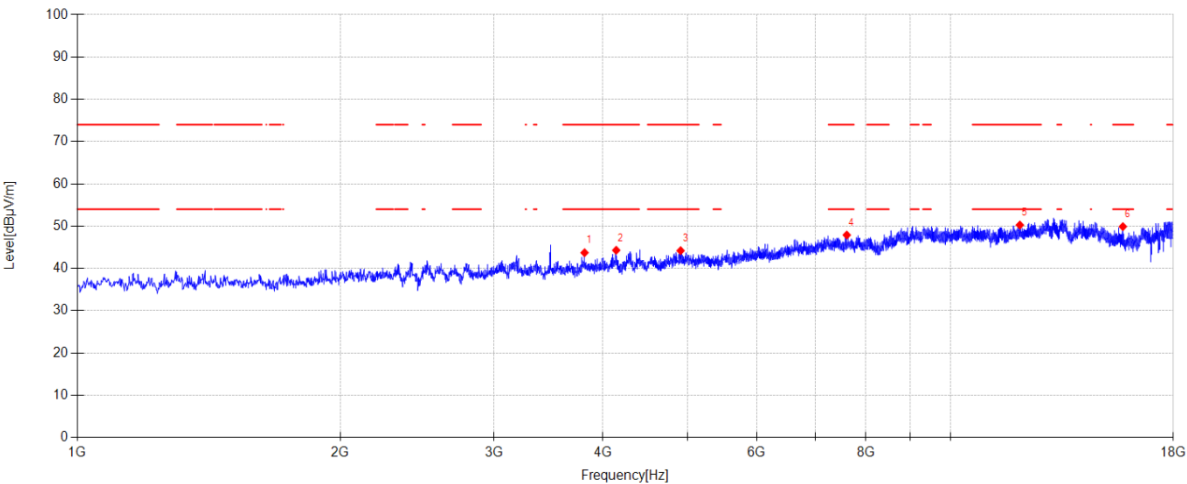
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\16

Memo:

Sample Numbler:S25091019-002



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	3810.100	48.48	30.78	4.08	-39.62	43.72	74.00	30.28	PK	Vertical
2	4141.600	48.47	31.43	4.11	-39.71	44.30	74.00	29.70	PK	Vertical
3	4908.300	46.40	33.10	4.49	-39.79	44.20	74.00	29.80	PK	Vertical
4	7607.900	45.96	36.33	5.45	-39.84	47.90	74.00	26.10	PK	Vertical
5	12007.500	43.75	39.04	7.07	-39.59	50.27	74.00	23.73	PK	Vertical
6	15757.700	43.00	38.33	7.90	-39.33	49.90	74.00	24.10	PK	Vertical

Note:

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

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

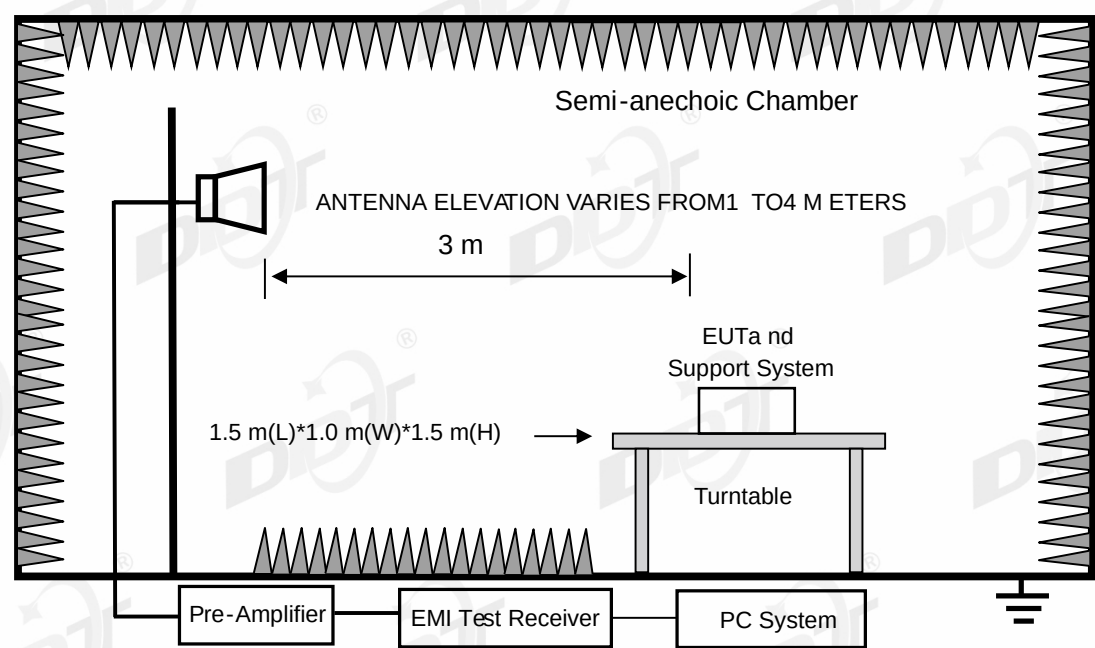
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

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

13.2. Block diagram of test setup



13.3. Limits

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

13.4. Assistant equipment used for test

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

13.5. 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.

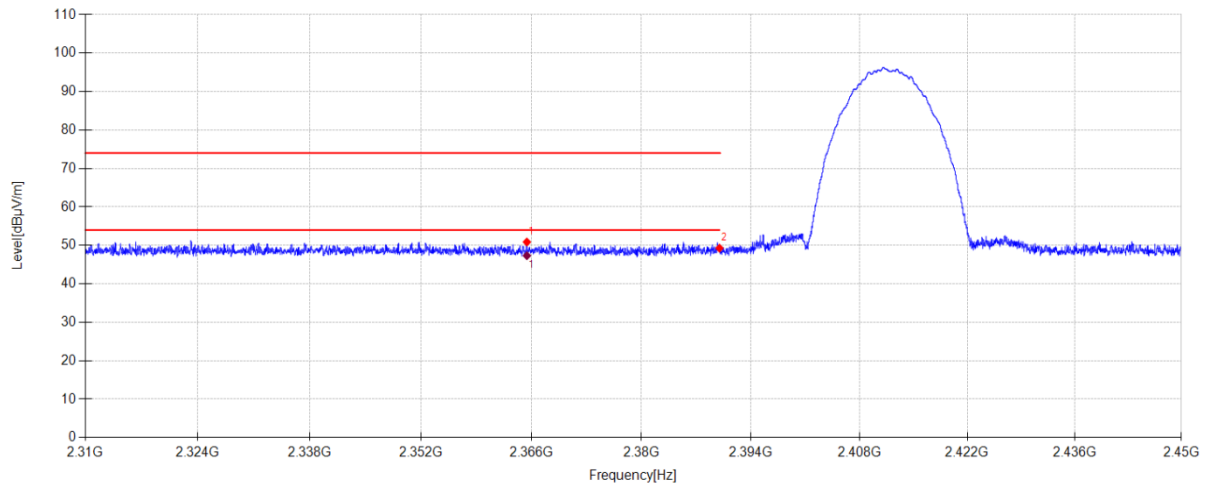
13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11B 2412MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\18
Memo: Sample Numbel:S25091019-002



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	2365.412	18.84	27.61	4.43	0.00	50.88	74.00	23.12	PK	Horizontal
2	2390.000	17.39	27.46	4.43	0.00	49.28	74.00	24.72	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	2365.412	15.27	27.61	4.43	47.31	54.00	6.69	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: 2025-10-10

Tested By: Li Xiongbn

EUT: AI Speaker

Model Number: KID

Test Mode: TX 11B 2412MHz Mode

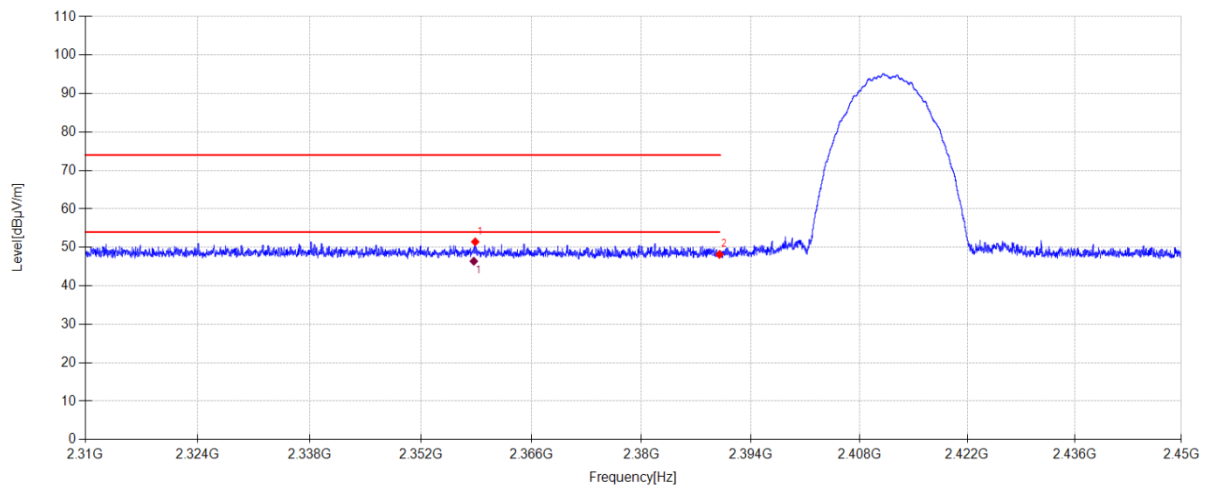
Power Supply: Battery

Condition: Temp:23.9°C;Humi:54.9%

Test Site: DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\19

Memo: Sample Numbler:S25091019-002



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	2358.860	19.35	27.65	4.44	0.00	51.44	74.00	22.56	PK	Vertical
2	2390.000	16.27	27.46	4.43	0.00	48.16	74.00	25.84	PK	Vertical

Final Data List

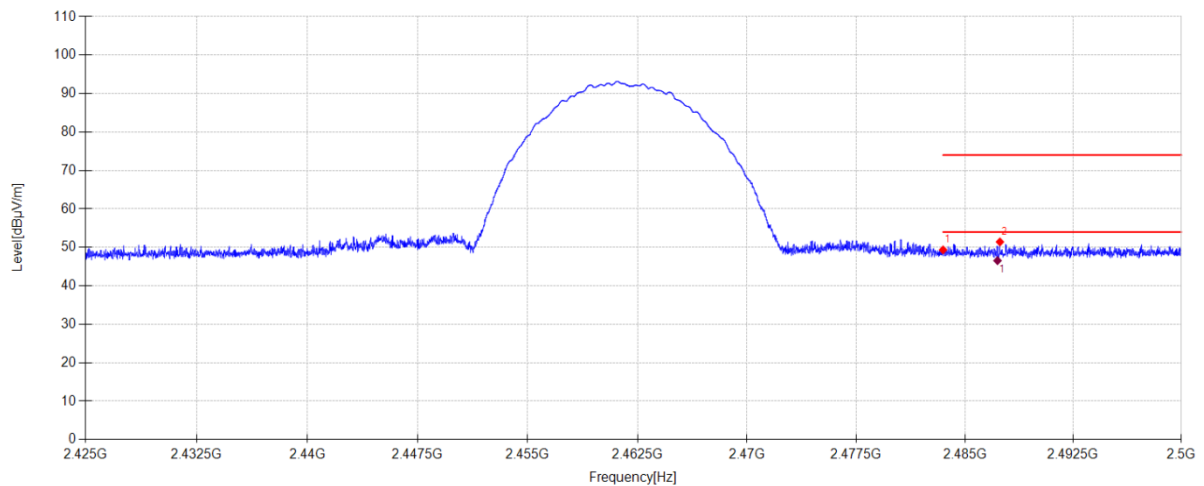
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2358.685	14.30	27.65	4.44	46.39	54.00	7.61	AV	Vertical

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: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11B 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\20
Memo: Sample Numbler:S25091019-002

**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	2483.500	17.41	27.54	4.40	0.00	49.35	74.00	24.65	PK	Horizontal
2	2487.430	19.46	27.57	4.39	0.00	51.42	74.00	22.58	PK	Horizontal

Final Data List

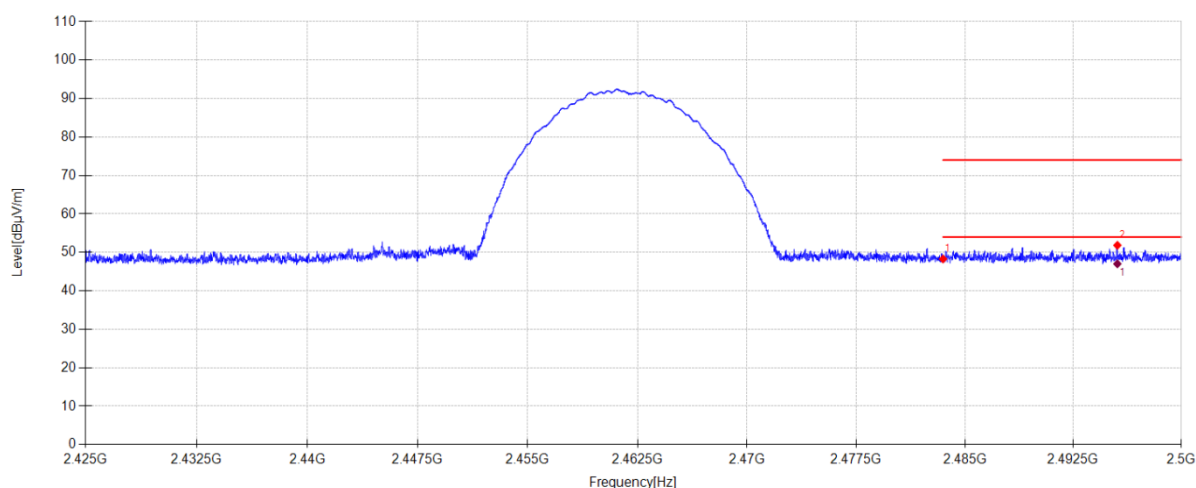
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2487.261	14.59	27.57	4.39	46.55	54.00	7.45	AV	Horizontal

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: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11B 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\21
Memo: Sample Numbler:S25091019-002

**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	2483.500	16.35	27.54	4.40	0.00	48.29	74.00	25.71	PK	Vertical
2	2495.560	19.79	27.66	4.39	0.00	51.84	74.00	22.16	PK	Vertical

Final Data List

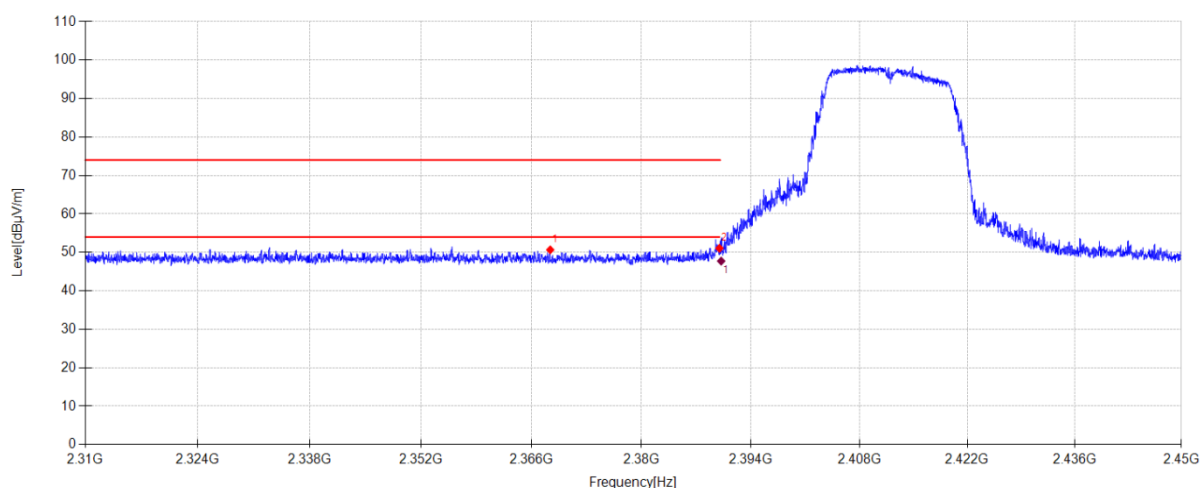
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2495.560	14.97	27.66	4.39	47.02	54.00	6.98	AV	Vertical

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: 2025-10-10 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11G 2412MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\24
Memo: Sample Numbler:S25091019-002

**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	2368.380	18.65	27.59	4.43	0.00	50.67	74.00	23.33	PK	Horizontal
2	2390.000	19.18	27.46	4.43	0.00	51.07	74.00	22.93	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	2390.214	15.84	27.46	4.43	47.73	51.97	4.24	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:

2025-10-10

Tested By:

Li Xiongbin

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11G 2412MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

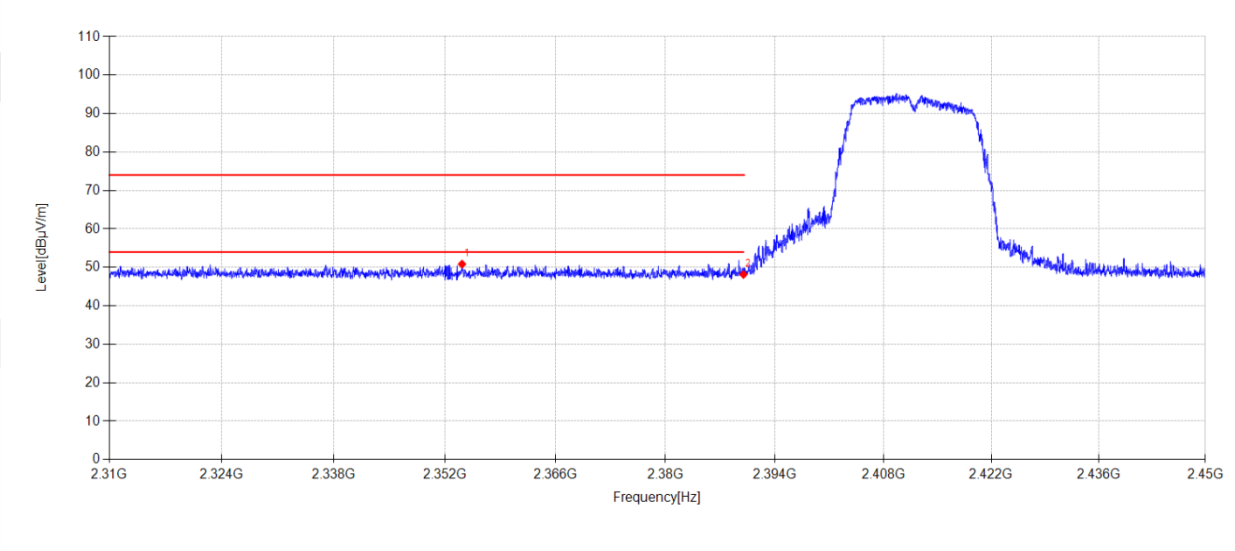
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\25

Memo:

Sample Numbler:S25091019-002



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	2354.156	18.73	27.68	4.44	0.00	50.85	74.00	23.15	PK	Vertical
2	2390.000	16.27	27.46	4.43	0.00	48.16	74.00	25.84	PK	Vertical

Note:

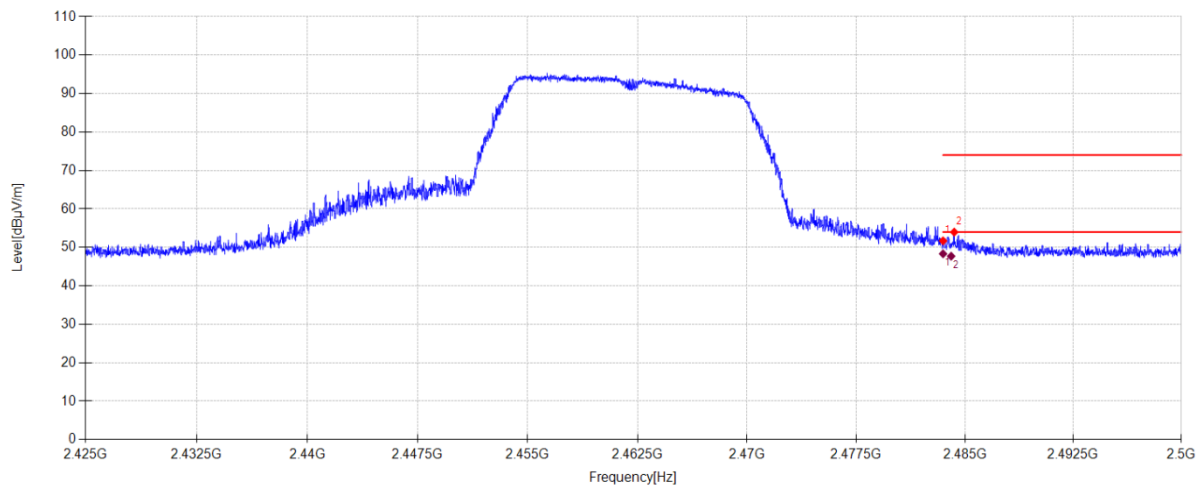
1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11G 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\26
Memo: Sample Numbler:S25091019-002



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	2483.500	19.76	27.54	4.40	0.00	51.70	74.00	22.30	PK	Horizontal
2	2484.273	22.03	27.54	4.40	0.00	53.97	74.00	20.03	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	2483.500	16.39	27.54	4.40	48.33	54.00	5.67	AV	Horizontal
2	2484.059	15.76	27.54	4.40	47.70	54.00	6.30	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-11

Tested By:

Li Xiongbín

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11G 2462MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

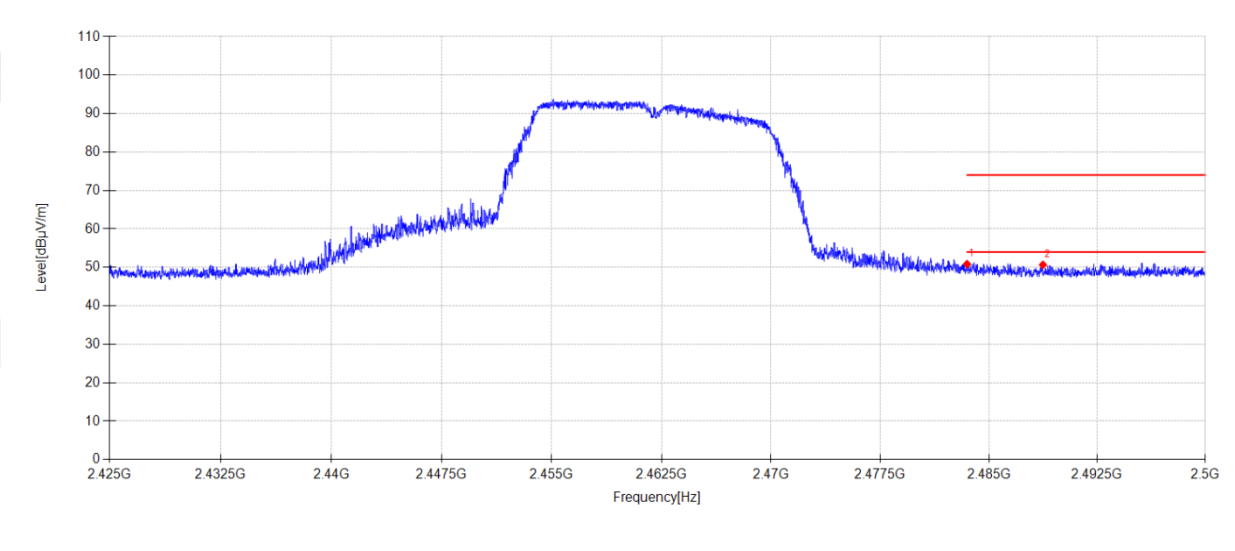
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\27

Memo:

Sample Numbler:S25091019-002



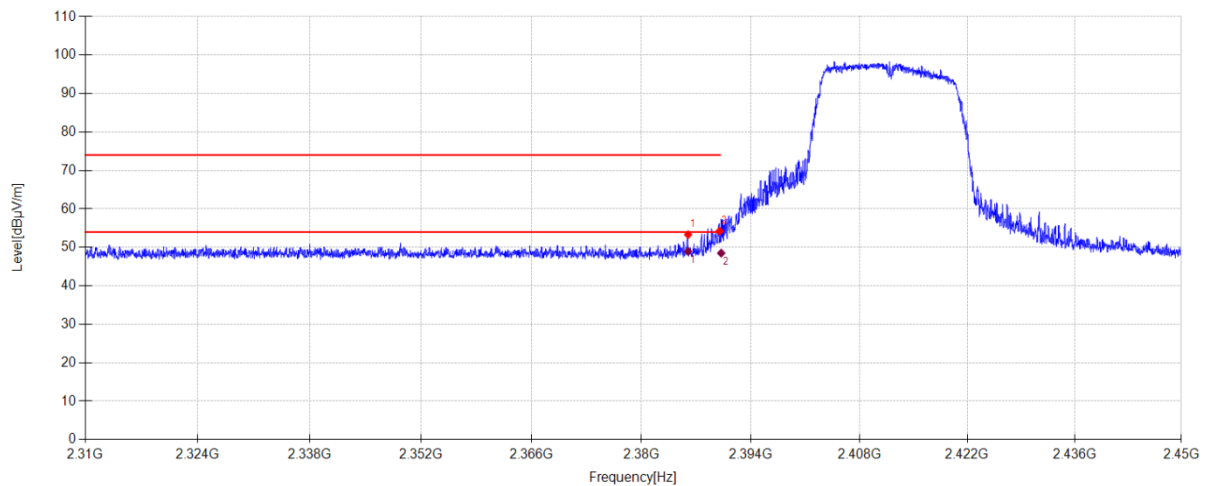
Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	18.90	27.54	4.40	0.00	50.84	74.00	23.16	PK	Vertical
2	2488.743	18.68	27.59	4.39	0.00	50.66	74.00	23.34	PK	Vertical

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N20 2412MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\32
Memo: Sample Numbler:S25091019-002



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	2385.978	21.40	27.48	4.43	0.00	53.31	74.00	20.69	PK	Horizontal
2	2390.000	22.32	27.46	4.43	0.00	54.21	74.00	19.79	PK	Horizontal

Final Data List

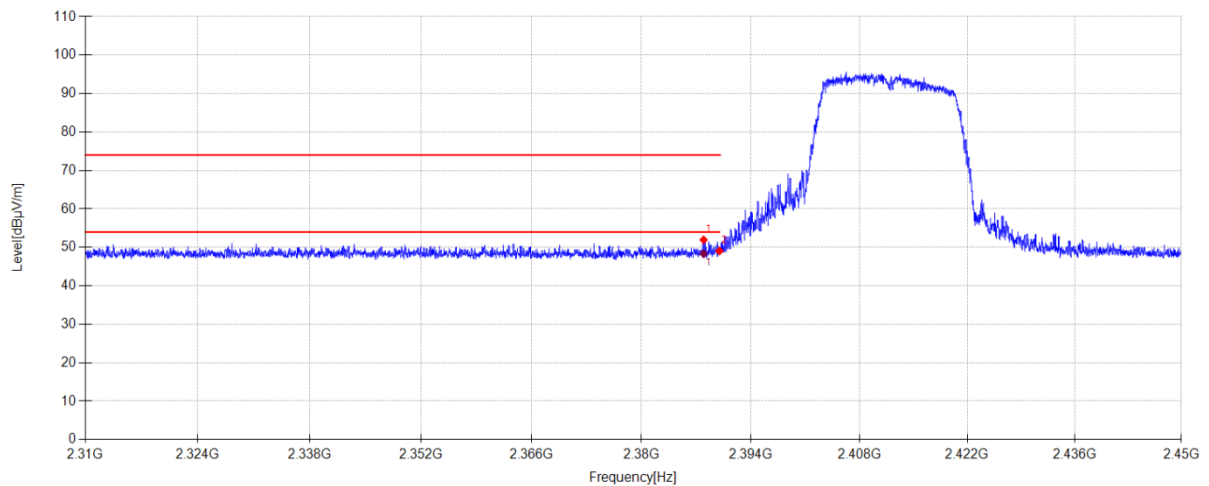
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.978	17.02	27.48	4.43	48.93	54.00	5.07	AV	Horizontal
2	2390.218	16.61	27.46	4.43	48.50	51.97	3.47	AV	Horizontal

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N20 2412MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\33
Memo: Sample Numbler:S25091019-002

**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	2387.966	20.06	27.47	4.43	0.00	51.96	74.00	22.04	PK	Vertical
2	2390.000	17.17	27.46	4.43	0.00	49.06	74.00	24.94	PK	Vertical

Final Data List

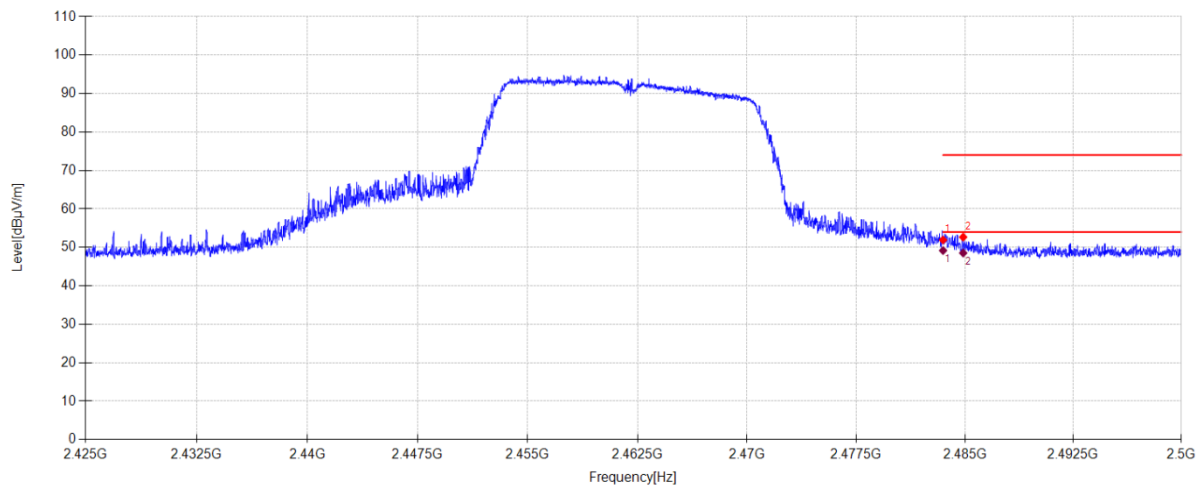
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.966	16.43	27.47	4.43	48.33	54.00	5.67	AV	Vertical

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N20 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\34
Memo: Sample Numbler:S25091019-002



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	2483.500	19.99	27.54	4.40	0.00	51.93	74.00	22.07	PK	Horizontal
2	2484.888	20.73	27.55	4.39	0.00	52.67	74.00	21.33	PK	Horizontal

Final Data List

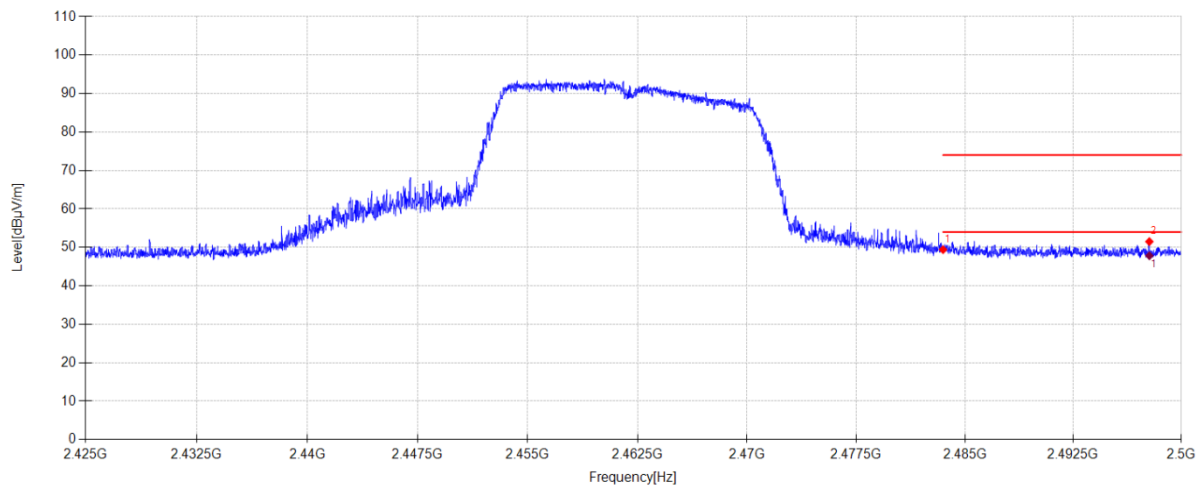
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	17.24	27.54	4.40	49.18	54.00	4.82	AV	Horizontal
2	2484.888	16.59	27.55	4.39	48.53	54.00	5.47	AV	Horizontal

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N20 2462MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\35
Memo: Sample Numbler:S25091019-002

**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	2483.500	17.48	27.54	4.40	0.00	49.42	74.00	24.58	PK	Vertical
2	2497.780	19.43	27.68	4.39	0.00	51.50	74.00	22.50	PK	Vertical

Final Data List

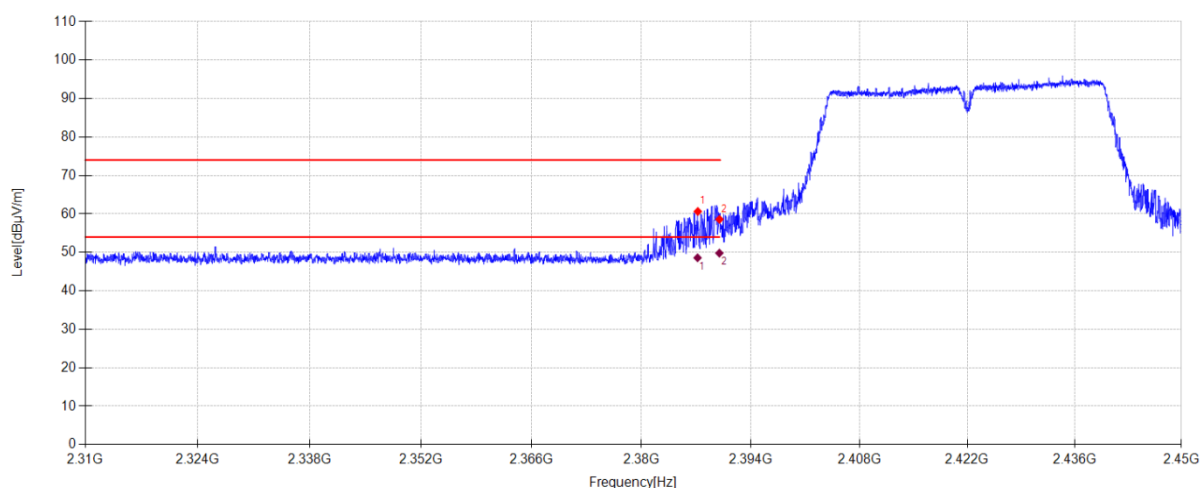
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2497.780	15.76	27.68	4.39	47.83	54.00	6.17	AV	Vertical

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: 2025-10-11 **Tested By:** Li Xiongbín
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N40 2422MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\36
Memo: Sample Numbler:S25091019-002



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	2387.224	28.73	27.48	4.43	0.00	60.64	74.00	13.36	PK	Horizontal
2	2390.000	26.71	27.46	4.43	0.00	58.60	74.00	15.40	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	2387.186	16.67	27.48	4.43	48.58	54.00	5.42	AV	Horizontal
2	2389.984	17.92	27.46	4.43	49.81	54.00	4.19	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:

2025-10-11

Tested By:

Li Xiongbín

EUT:

AI Speaker

Model Number:

KID

Test Mode:

TX 11N40 2422MHz Mode

Power Supply:

Battery

Condition:

Temp:23.9°C;Humi:54.9%

Test Site:

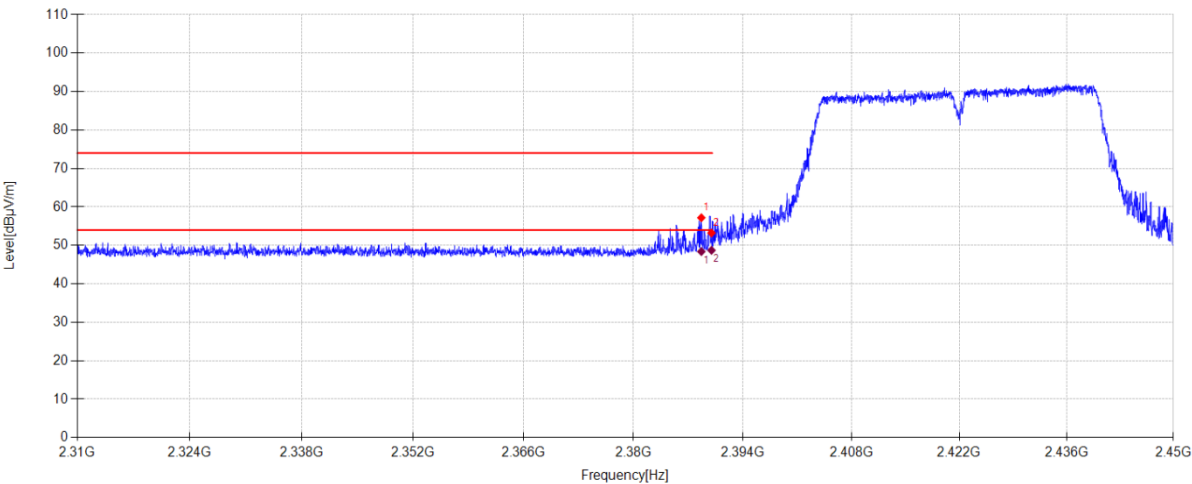
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\37

Memo:

Sample Numbler:S25091019-002



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	2388.694	25.29	27.47	4.43	0.00	57.19	74.00	16.81	PK	Vertical
2	2390.000	21.34	27.46	4.43	0.00	53.23	74.00	20.77	PK	Vertical

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	2388.694	16.49	27.47	4.43	48.39	54.00	5.61	AV	Vertical	
2	2390.000	16.82	27.46	4.43	48.71	54.00	5.29	AV	Vertical	

Note:

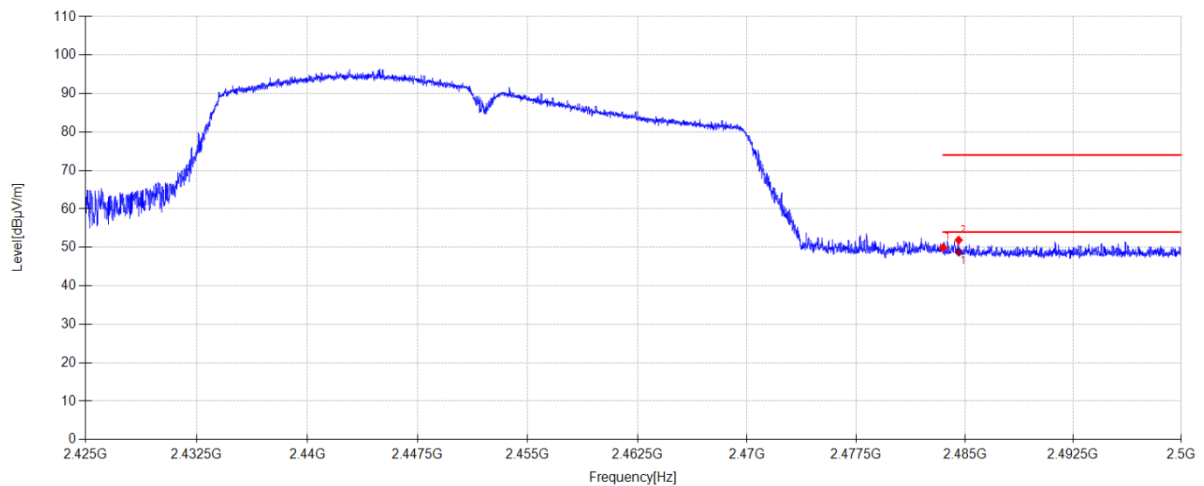
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N40 2452MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\38
Memo: Sample Numbler:S25091019-002

**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	2483.500	18.00	27.54	4.40	0.00	49.94	74.00	24.06	PK	Horizontal
2	2484.580	19.96	27.55	4.39	0.00	51.90	74.00	22.10	PK	Horizontal

Final Data List

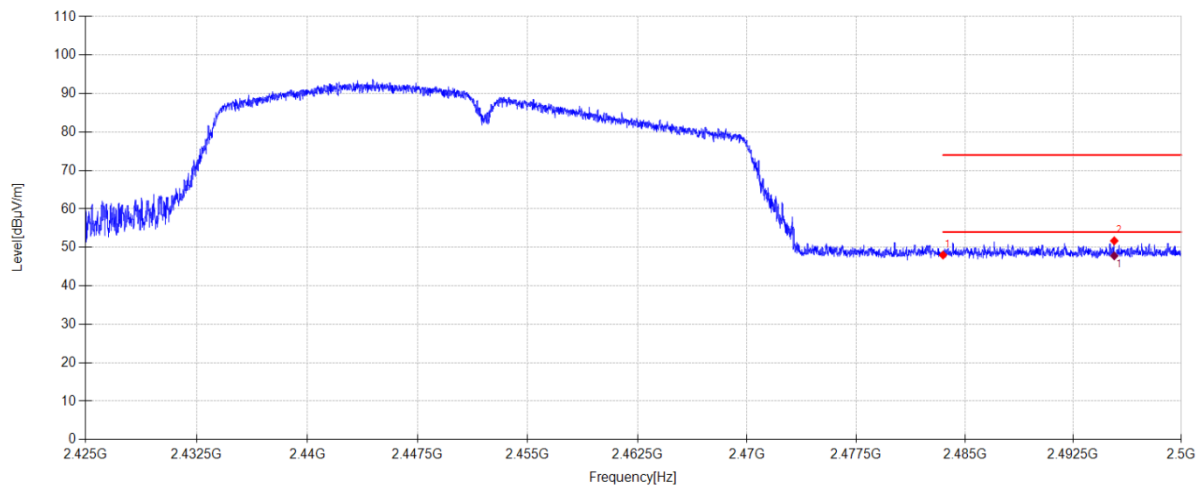
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.580	16.83	27.55	4.39	48.77	54.00	5.23	AV	Horizontal

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: 2025-10-11 **Tested By:** Li Xiongbin
EUT: AI Speaker **Model Number:** KID
Test Mode: TX 11N40 2452MHz Mode **Power Supply:** Battery
Condition: Temp:23.9°C;Humi:54.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25091019-1E\FCC Above 1G 2.4G\39
Memo: Sample Numbler:S25091019-002



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	2483.500	16.07	27.54	4.40	0.00	48.01	74.00	25.99	PK	Vertical
2	2495.343	19.67	27.65	4.39	0.00	51.71	74.00	22.29	PK	Vertical

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	2495.343	15.76	27.65	4.39	47.80	54.00	6.20	AV	Vertical

Note:

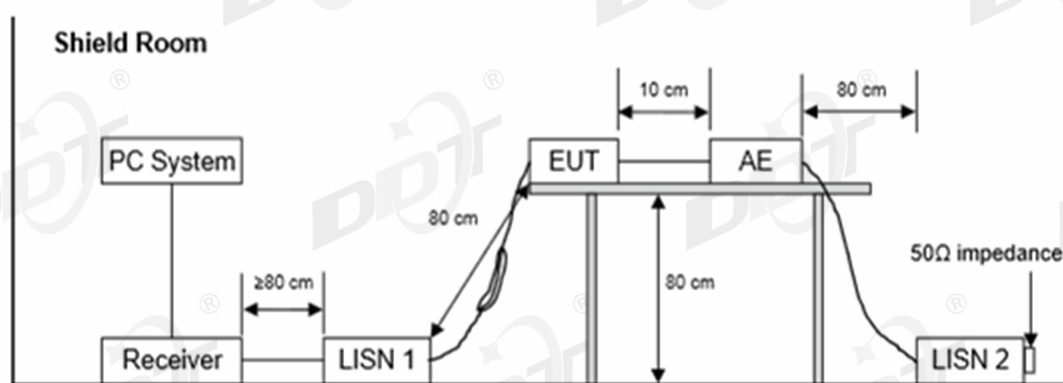
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

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

14.2. Block diagram of test setup



14.3. 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.

14.4. Assistant equipment used for test

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

14.5. 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.

14.6. 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.

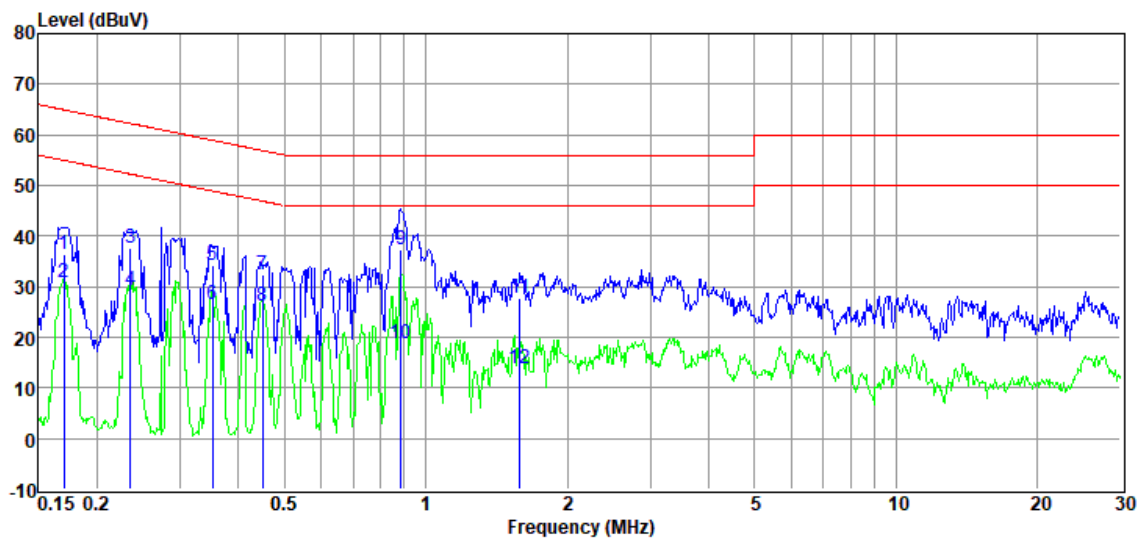
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2025 CE report data\Q25091019-1E\1105 CE.EM6
Test Date : 2025-11-05 Tested By : Yisheng Ling
EUT : AI Speaker Model Number : KID
Power Supply : AC 120V/60Hz Test Mode : TX 11B 2412MHz Mode
Condition : TEMP:20.6°C, RH:61.3% LISN : 2025 1# 216/NEUTRAL
Memo :

Data: 6



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	0.17	16.86	9.68	0.05	9.89	36.48	64.94	28.46	QP	NEUTRAL
2	0.17	11.13	9.68	0.05	9.89	30.75	54.94	24.19	Average	NEUTRAL
3	0.24	17.79	9.84	0.06	9.89	37.58	62.26	24.68	QP	NEUTRAL
4	0.24	9.46	9.84	0.06	9.89	29.25	52.26	23.01	Average	NEUTRAL
5	0.35	14.31	9.91	0.07	9.89	34.18	58.91	24.73	QP	NEUTRAL
6	0.35	6.65	9.91	0.07	9.89	26.52	48.91	22.39	Average	NEUTRAL
7	0.45	12.66	9.86	0.08	9.89	32.49	56.88	24.39	QP	NEUTRAL
8	0.45	6.30	9.86	0.08	9.89	26.13	46.88	20.75	Average	NEUTRAL
9	0.88	17.54	9.86	0.14	9.90	37.44	56.00	18.56	QP	NEUTRAL
10	0.88	-1.05	9.86	0.14	9.90	18.85	46.00	27.15	Average	NEUTRAL
11	1.59	7.77	9.82	0.16	9.89	27.64	56.00	28.36	QP	NEUTRAL
12	1.59	-6.03	9.82	0.16	9.89	13.84	46.00	32.16	Average	NEUTRAL

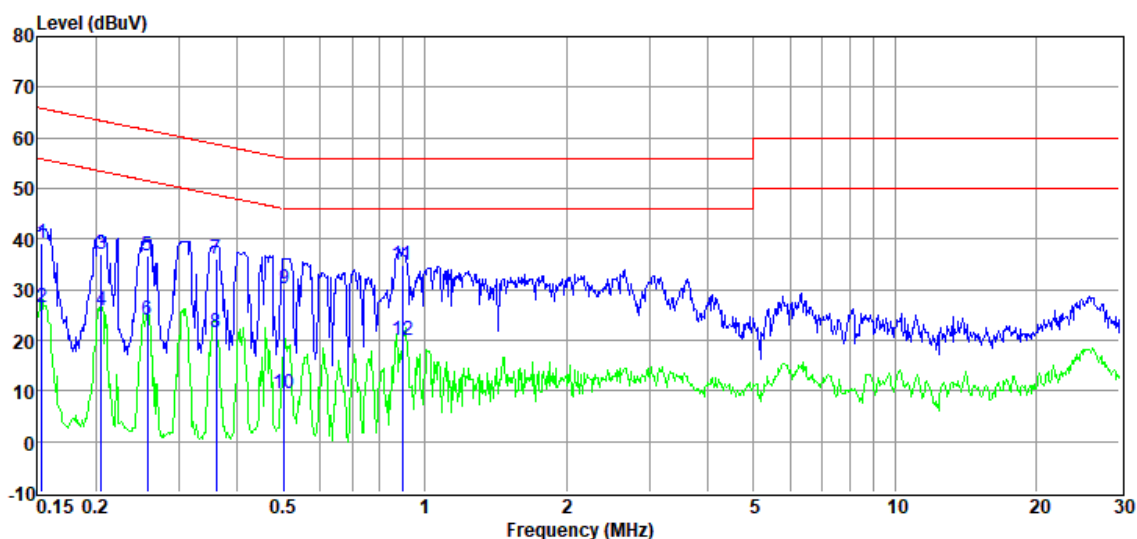
Note:

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.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room
Test Date : 2025-11-05
EUT : AI Speaker
Power Supply : AC 120V/60Hz
Condition : TEMP:20.6°C, RH:61.3%
Memo :
D:\2025 CE report data\Q25091019-1E\1105 CE.EM6
Tested By : Yisheng Ling
Model Number : KID
Test Mode : TX 11B 2412MHz Mode
LISN : 2025 1# 216/LINE

Data: 8



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	19.37	9.85	0.05	9.89	39.16	65.82	26.66	QP	LINE
2	0.15	6.67	9.85	0.05	9.89	26.46	55.82	29.36	Average	LINE
3	0.21	17.32	9.82	0.06	9.89	37.09	63.40	26.31	QP	LINE
4	0.21	6.01	9.82	0.06	9.89	25.78	53.40	27.62	Average	LINE
5	0.26	16.82	9.80	0.06	9.89	36.57	61.51	24.94	QP	LINE
6	0.26	4.18	9.80	0.06	9.89	23.93	51.51	27.58	Average	LINE
7	0.36	16.37	9.67	0.07	9.89	36.00	58.74	22.74	QP	LINE
8	0.36	2.06	9.67	0.07	9.89	21.69	48.74	27.05	Average	LINE
9	0.50	10.40	9.77	0.09	9.89	30.15	56.00	25.85	QP	LINE
10	0.50	-10.33	9.77	0.09	9.89	9.42	46.00	36.58	Average	LINE
11	0.89	14.86	9.84	0.14	9.90	34.74	56.00	21.26	QP	LINE
12	0.89	0.19	9.84	0.14	9.90	20.07	46.00	25.93	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.

16. Photos of the EUT

Please refer to DDT-Q25091019-2E appendix I

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