



RADIO TEST REPORT

Applicant	:	Action Electronics Co.,Ltd.
Address of Applicant	:	2480,TINGKAT PERUSAHAAN ENAM,PRAI FREE TRADE ZONE, 13600, PERAI,,
Manufacturer	:	ACTION INDUSTRIES (M) SDN.BHD.
Address of Manufacturer	:	2480, TINGKAT PERUSAHAAN ENAM, PRAI FREE TRADE ZONE, 13600, PERAI, PENANG, MALAYSIA
Equipment under Test	:	11.6 IN-CAR SEATBACK MONITOR WITH DVD + 11.6 IN-CAR SEATBACK MONITOR
Model No.	:	SB11MD1, AVXSB11UHD, SBBA1161, SBBA1162, SB11M1, SBAA1161
FCC ID	:	ATI9R3SB11MD1
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020,
Report No.	:	DDT-RE25090308-4E03
Issue Date	:	2025/12/23
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Test Report Declare

Applicant	:	Action Electronics Co.,Ltd.
Address of Applicant	:	2480,TINGKAT PERUSAHAAN ENAM,PRAI FREE TRADE ZONE, 13600, PERAI,,
Equipment under Test	:	11.6 IN-CAR SEATBACK MONITOR WITH DVD + 11.6 IN-CAR SEATBACK MONITOR
Model No.	:	SB11MD1, AVXSB11UHD, SBBA1161, SBBA1162, SB11M1, SBAA1161
Manufacturer	:	ACTION INDUSTRIES (M) SDN.BHD.
Address of Manufacturer	:	2480, TINGKAT PERUSAHAAN ENAM, PRAI FREE TRADE ZONE, 13600, PERAI, PENANG, MALAYSIA

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020,

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-RE25090308-4E03		
Date of Receipt:	2025/09/05	Date of Test:	2025/09/05 - 2025/10/24

Created: Zoe Peng	Reviewed: Chen Ziqin	Approved: Damon Hu
		
2025/10/24	2025/12/23	2025/12/23

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

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/12/23	Damon Hu

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),	/	NA
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	:	11.6 IN-CAR SEATBACK MONITOR WITH DVD + 11.6 IN-CAR SEATBACK MONITOR
Model Number	:	SB11MD1, AVXSB11UHD, SBBA1161, SBBA1162, SB11M1, SBAA1161
Difference of model number	:	Only the model name is different, therefore the test performed on the Model SB11MD1
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Antenna Type	:	PCB Antenna
Max Antenna Gain(dBi)	:	Antenna Gain: 2.23 dBi

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
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	/	/

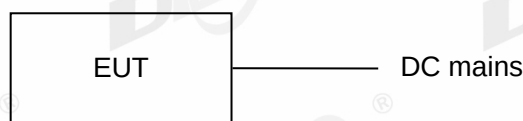
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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
/	/	/	/

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: adb.exe

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

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

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency				
Tested mode	Tx Power Setting	Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
IEEE 802.11b	16	1	LCH: CH1	2412
	16	1	MCH: CH6	2437
	16	1	HCH: CH11	2462
IEEE 802.11g	11	6	LCH: CH1	2412
	11	6	MCH: CH6	2437
	11	6	HCH: CH11	2462
IEEE 802.11n HT20	12	MCS 0	LCH: CH1	2412
	12	MCS 0	MCH: CH6	2437
	12	MCS 0	HCH: CH11	2462
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

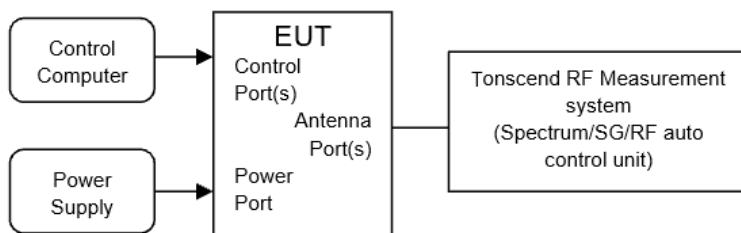
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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

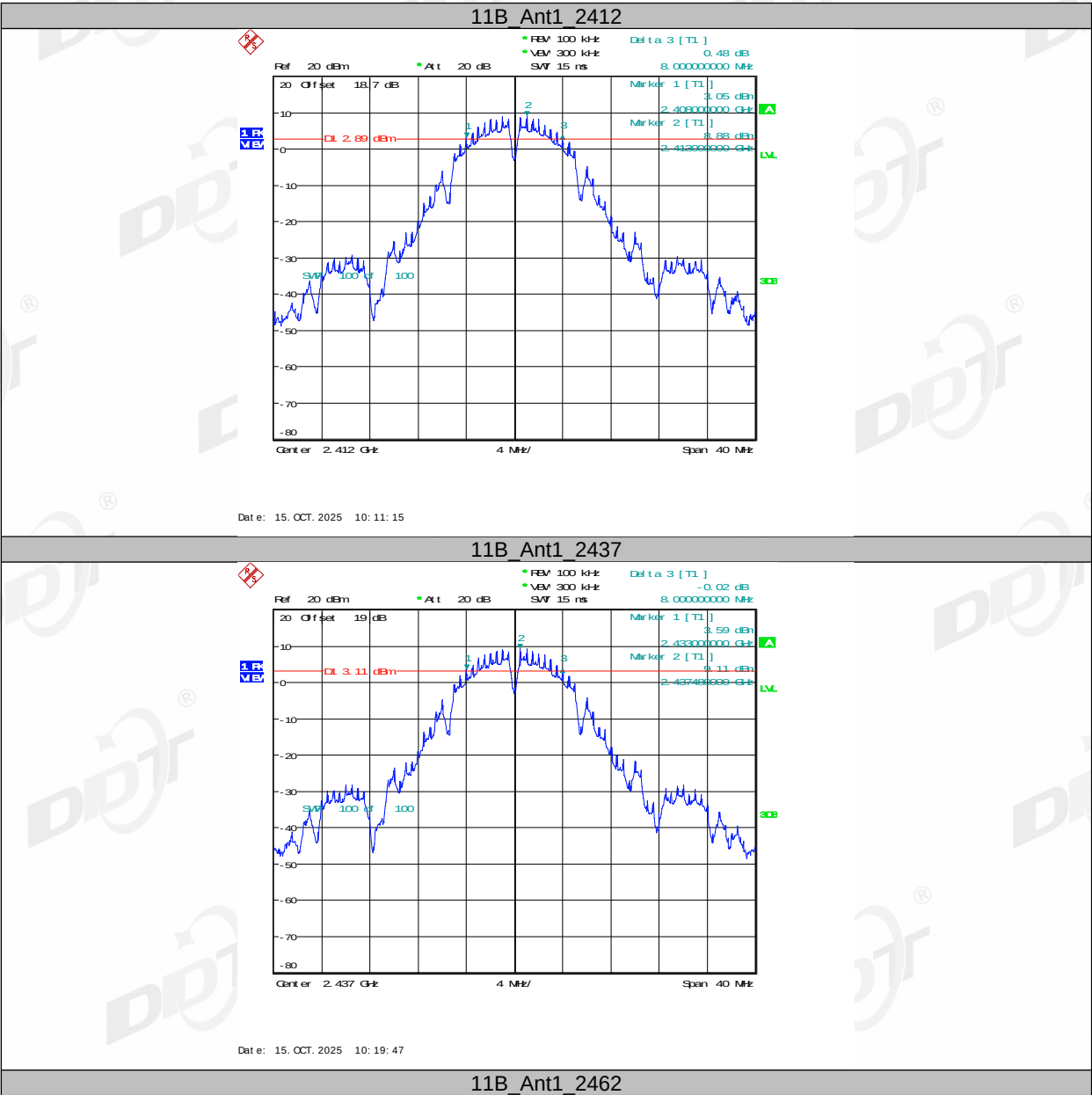
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

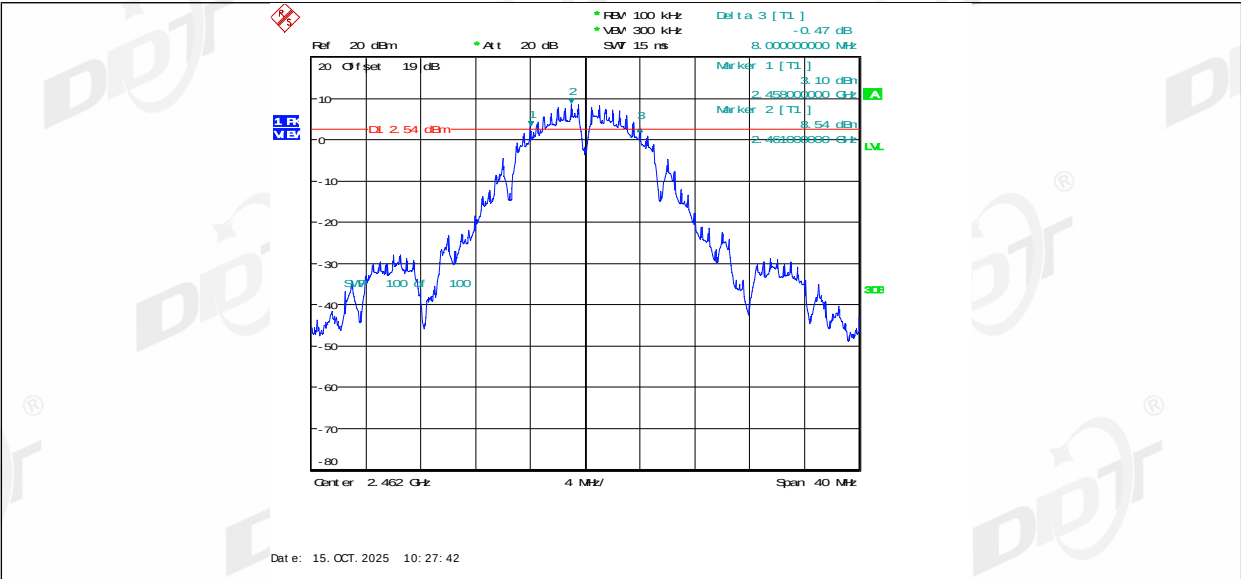
4.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

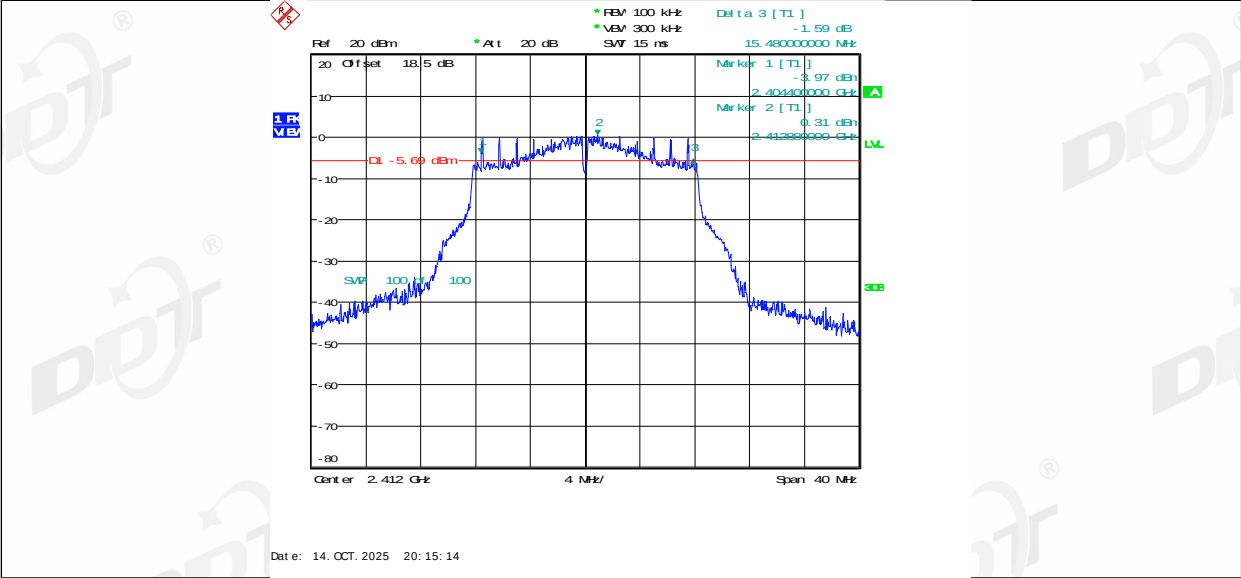
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.00	2408.00	2416.00	0.5	PASS
		2437	8.00	2433.00	2441.00	0.5	PASS
		2462	8.00	2458.00	2466.00	0.5	PASS
11G	Ant1	2412	15.48	2404.40	2419.88	0.5	PASS
		2437	15.16	2429.40	2444.56	0.5	PASS
		2462	15.08	2454.48	2469.56	0.5	PASS
11N20SISO	Ant1	2412	15.16	2404.40	2419.56	0.5	PASS
		2437	15.20	2429.40	2444.60	0.5	PASS
		2462	15.16	2454.40	2469.56	0.5	PASS

4.5. Test graphs

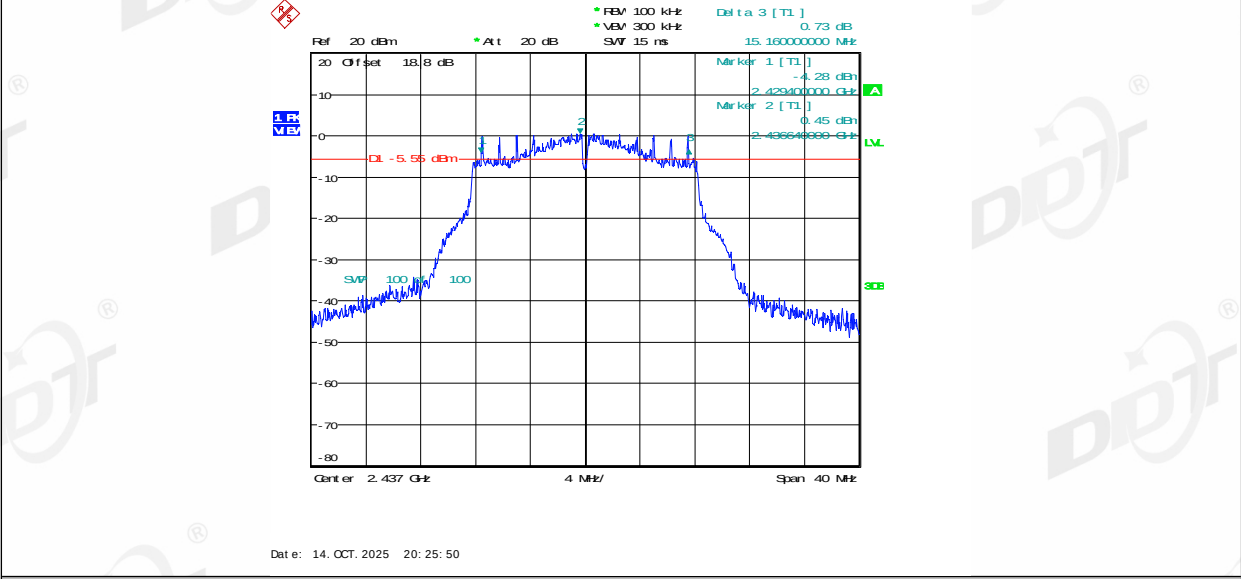




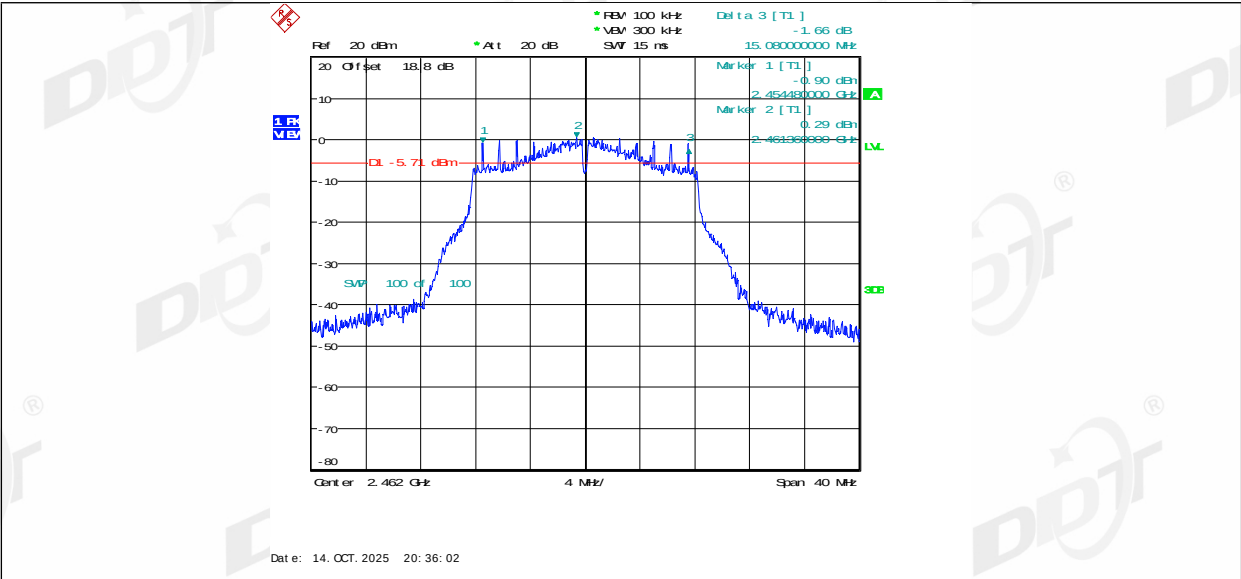
11G Ant1 2412



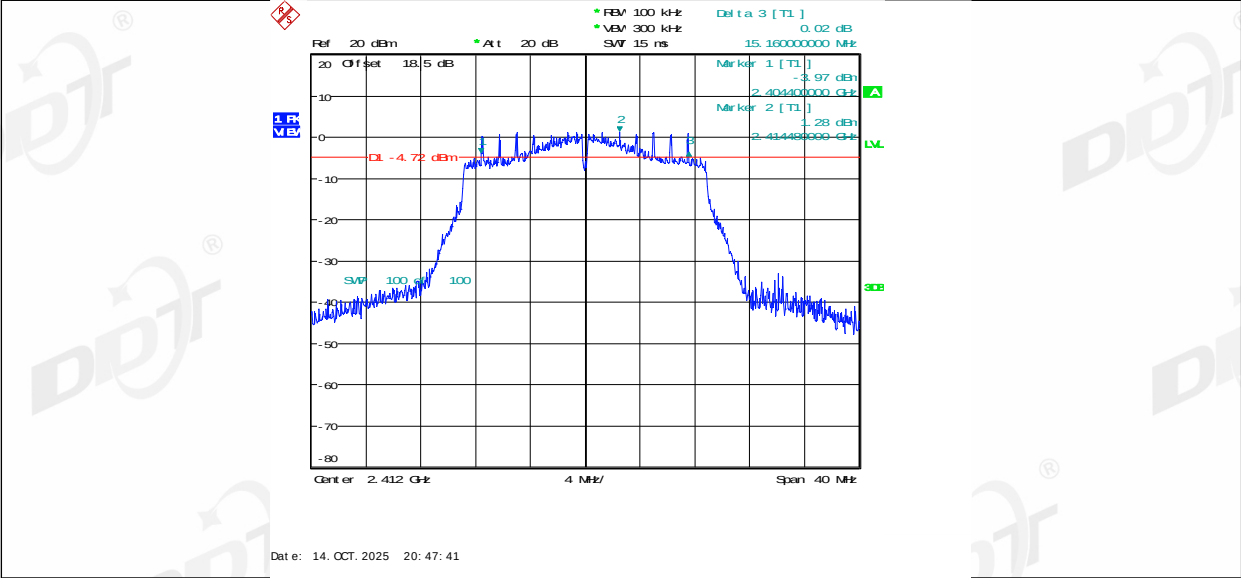
11G Ant1 2437



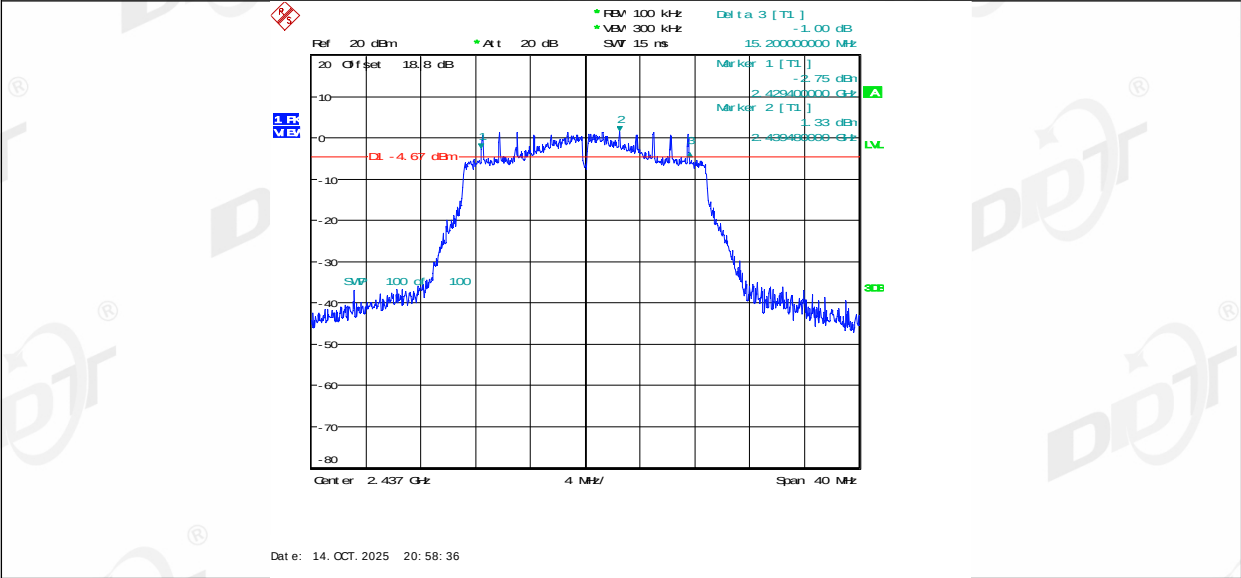
11G Ant1 2462



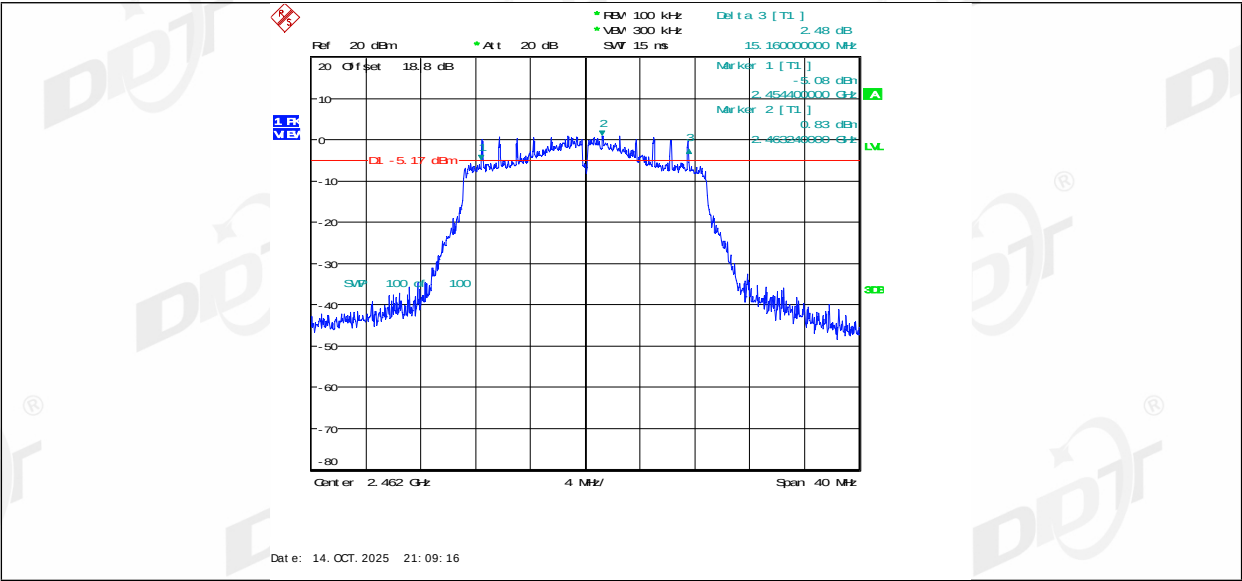
11N20SISO Ant1 2412



11N20SISO Ant1 2437

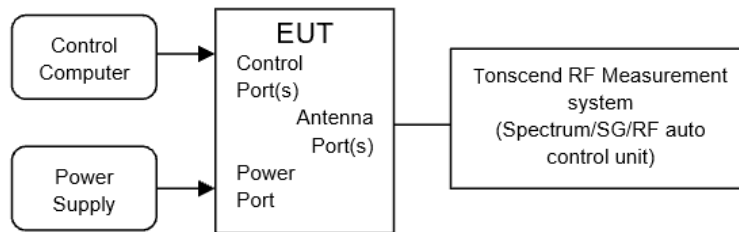


11N20SISO Ant1 2462



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.

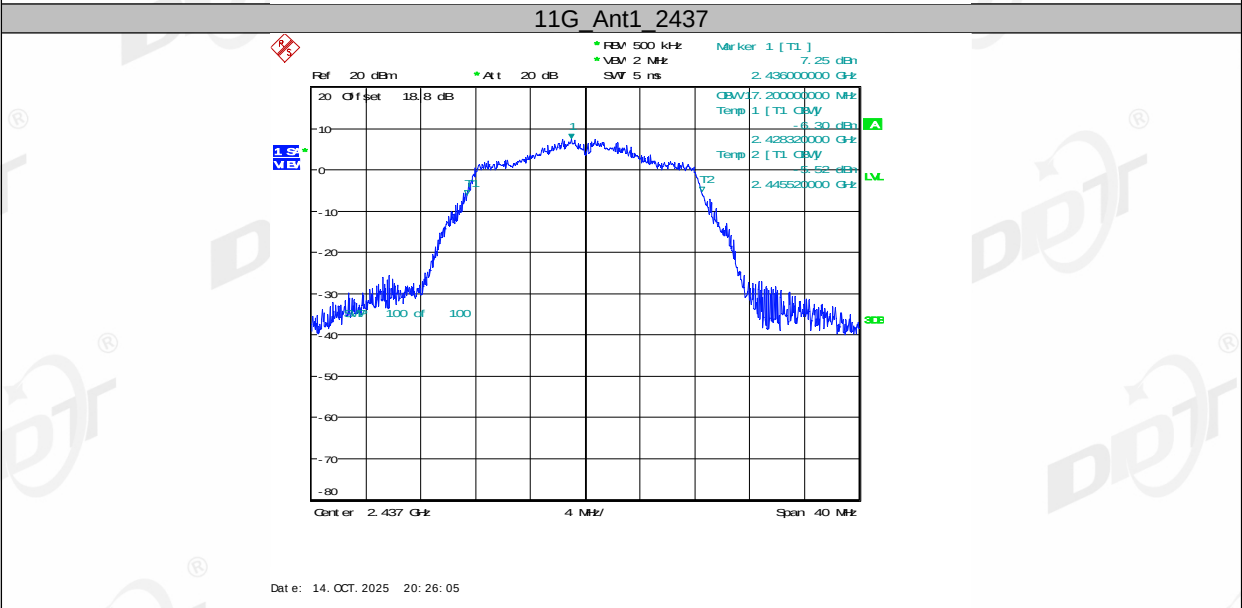
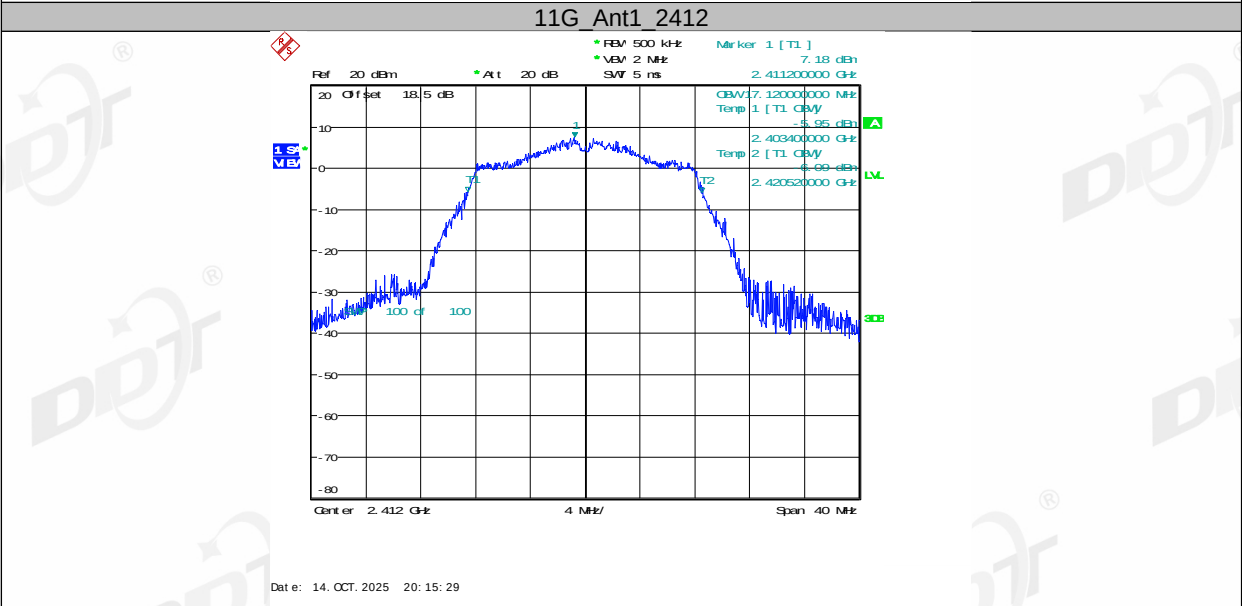
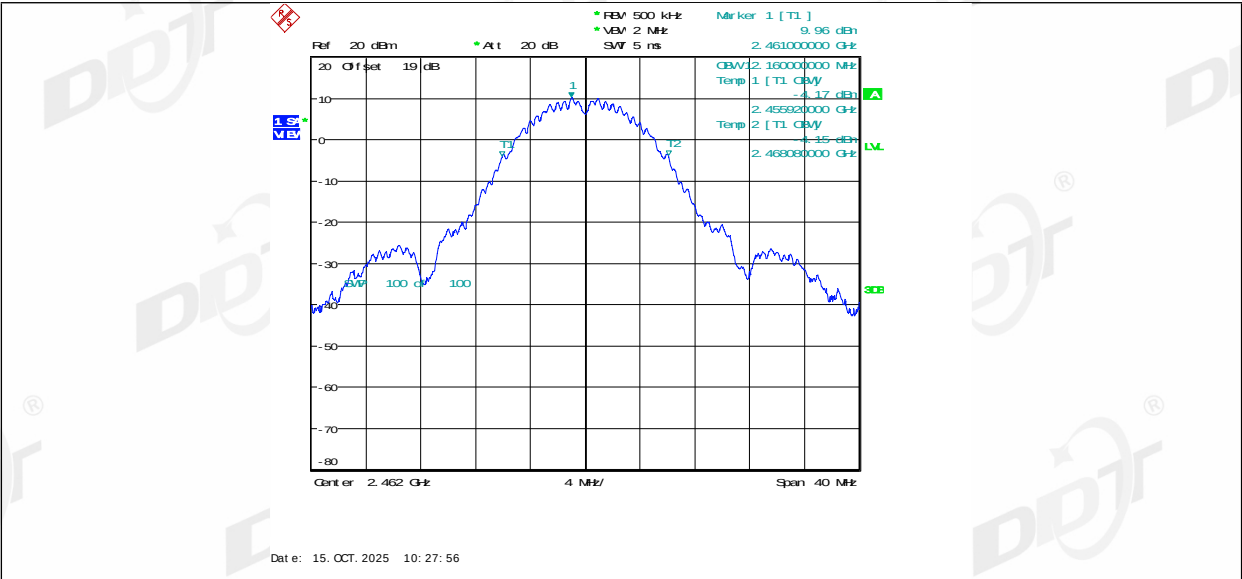
5.4. Test result

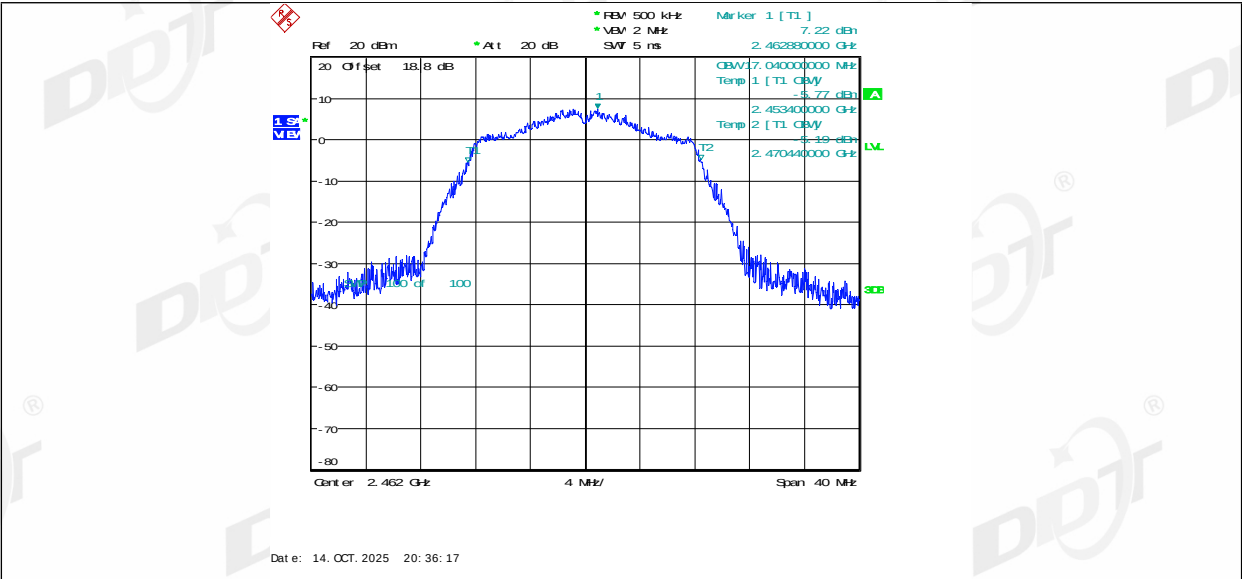
Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.840	2406.1600	2418.0000	---	---
		2437	12.000	2431.0400	2443.0400	---	---
		2462	12.160	2455.9200	2468.0800	---	---
11G	Ant1	2412	17.120	2403.4000	2420.5200	---	---
		2437	17.200	2428.3200	2445.5200	---	---
		2462	17.040	2453.4000	2470.4400	---	---
11N20SISO	Ant1	2412	18.160	2402.8800	2421.0400	---	---
		2437	18.120	2427.9200	2446.0400	---	---
		2462	17.920	2453.0000	2470.9200	---	---

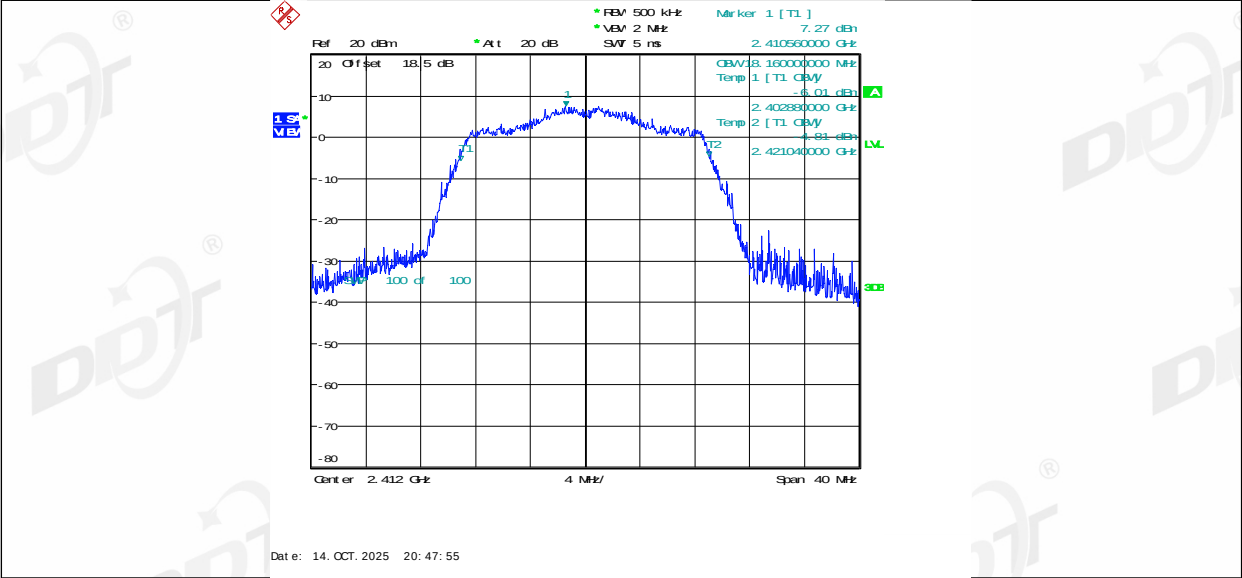
5.5. Test graphs



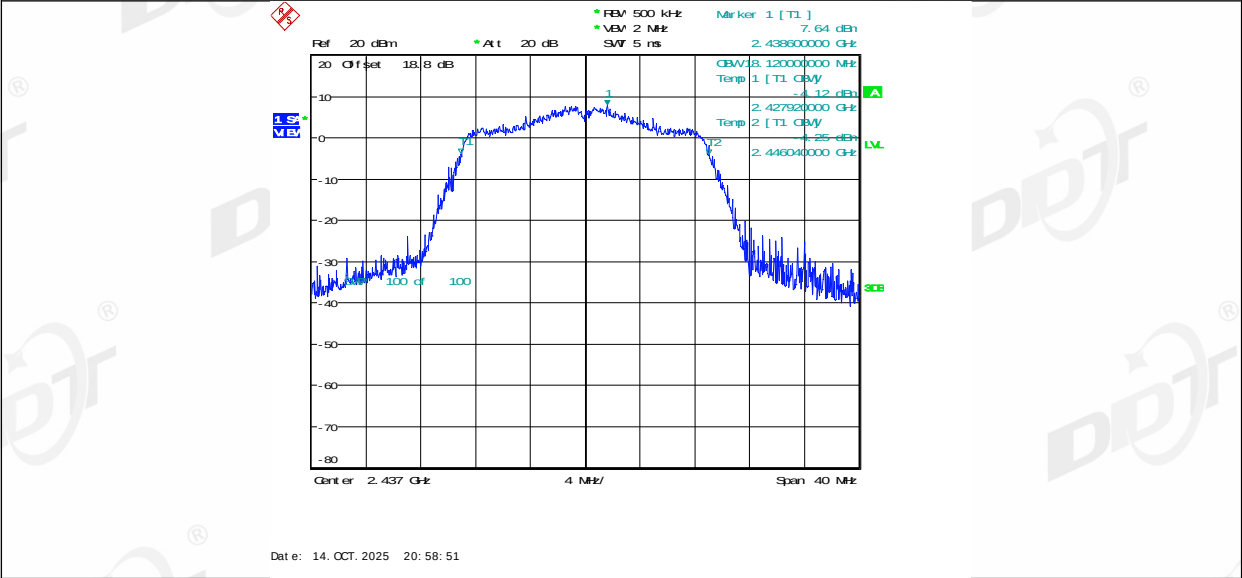




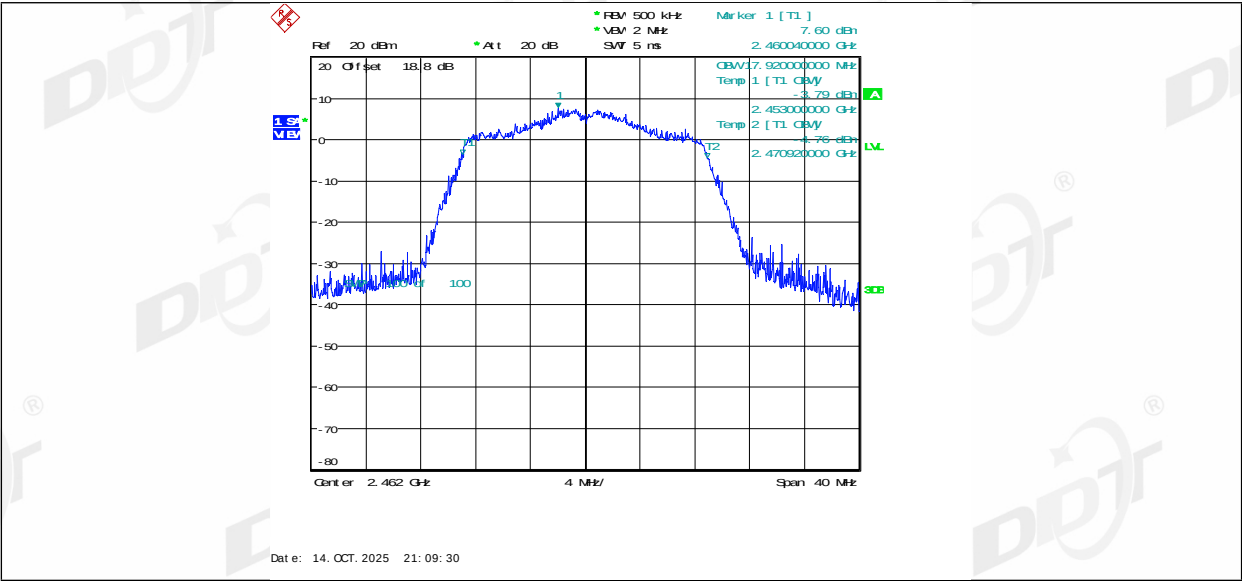
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

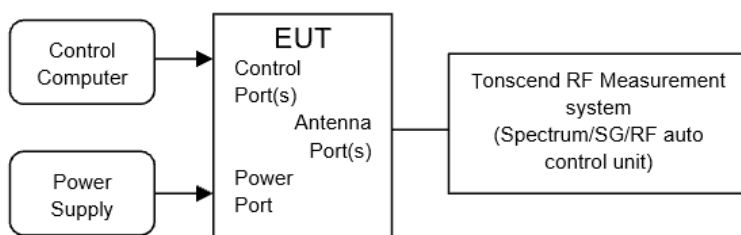


11N20SISO_Ant1_2462



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

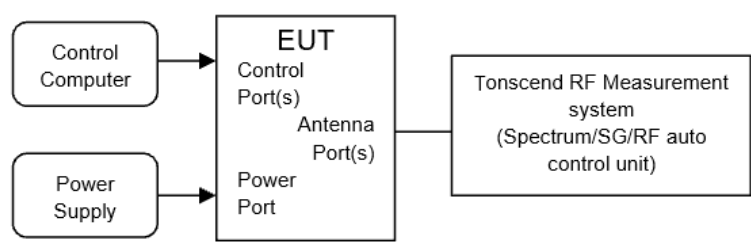
Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

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	17.57	98.83	0.05	17.62	≤30.00	19.85	≤36.00	PASS
		2437	17.45	98.95	0.05	17.50	≤30.00	19.73	≤36.00	PASS
		2462	17.04	98.95	0.05	17.09	≤30.00	19.32	≤36.00	PASS
11G	Ant1	2412	11.82	92.72	0.33	12.15	≤30.00	14.38	≤36.00	PASS
		2437	11.69	92.72	0.33	12.02	≤30.00	14.25	≤36.00	PASS
		2462	11.67	92.72	0.33	12.00	≤30.00	14.23	≤36.00	PASS
11N20SISO	Ant1	2412	12.46	92.96	0.32	12.78	≤30.00	15.01	≤36.00	PASS
		2437	12.23	92.25	0.35	12.58	≤30.00	14.81	≤36.00	PASS
		2462	12.04	92.25	0.35	12.39	≤30.00	14.62	≤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 kHz ≤ RBW ≤ 100 kHz |
| VBW: | ≥ 3RBW |
| 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.

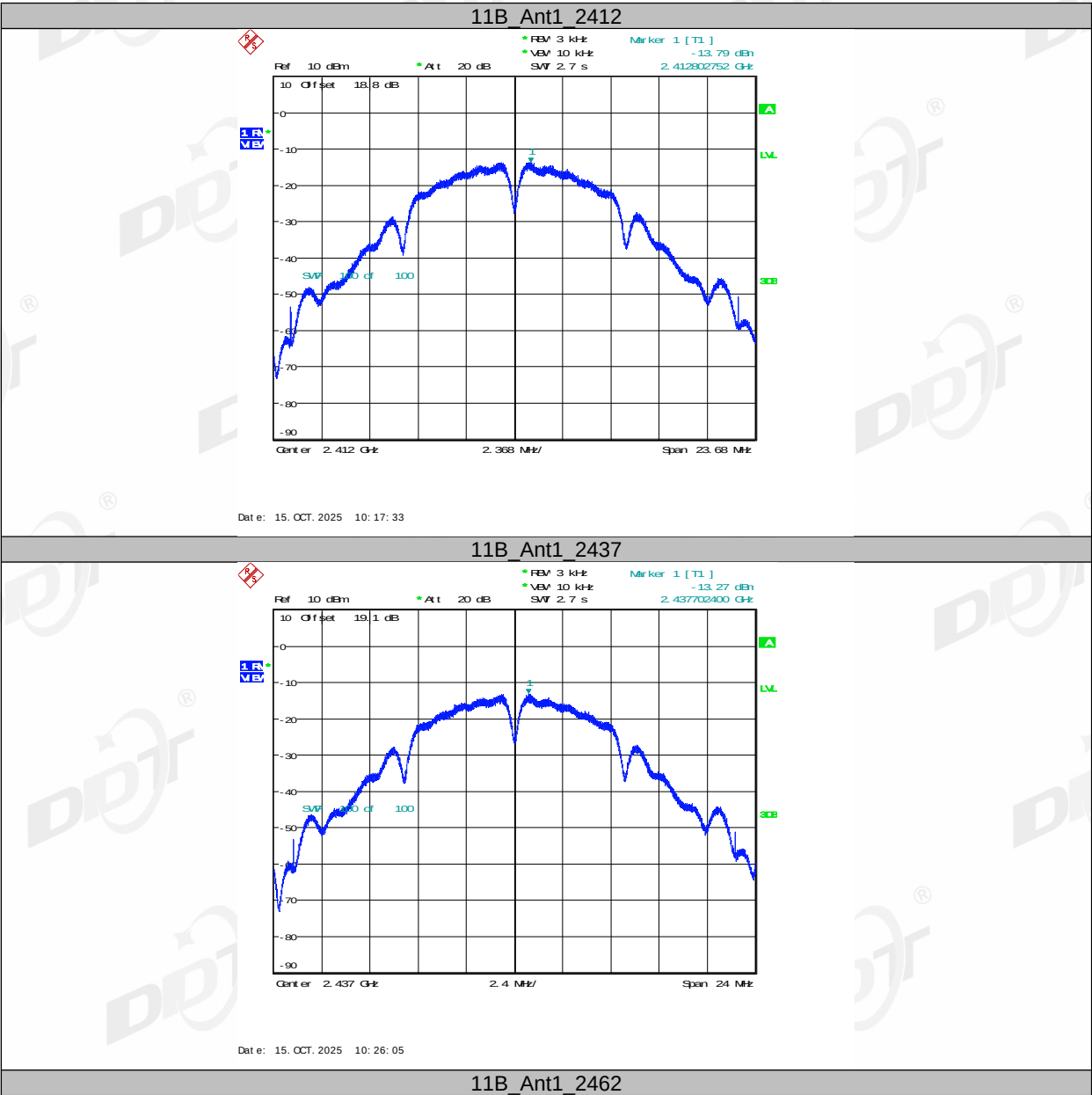
7.4. Test result

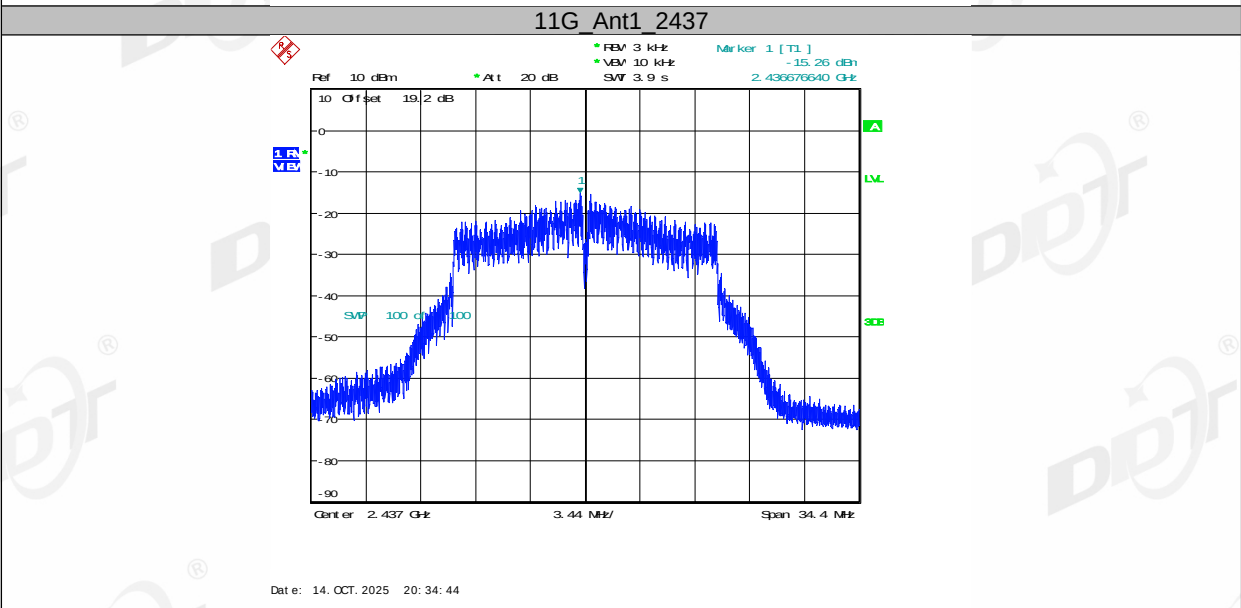
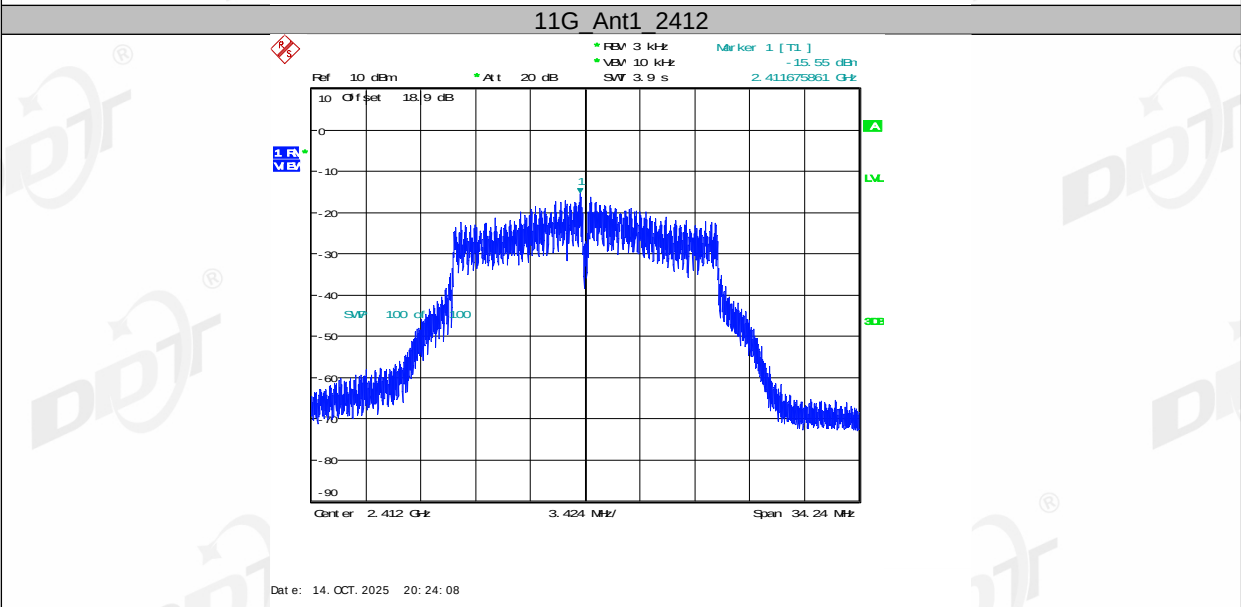
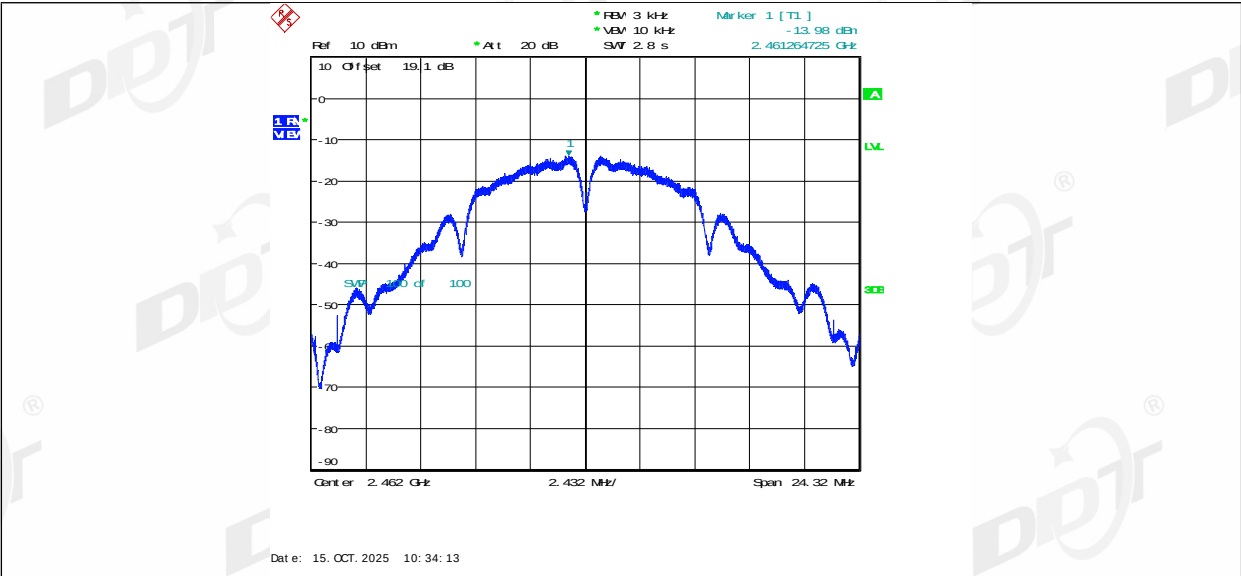
Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

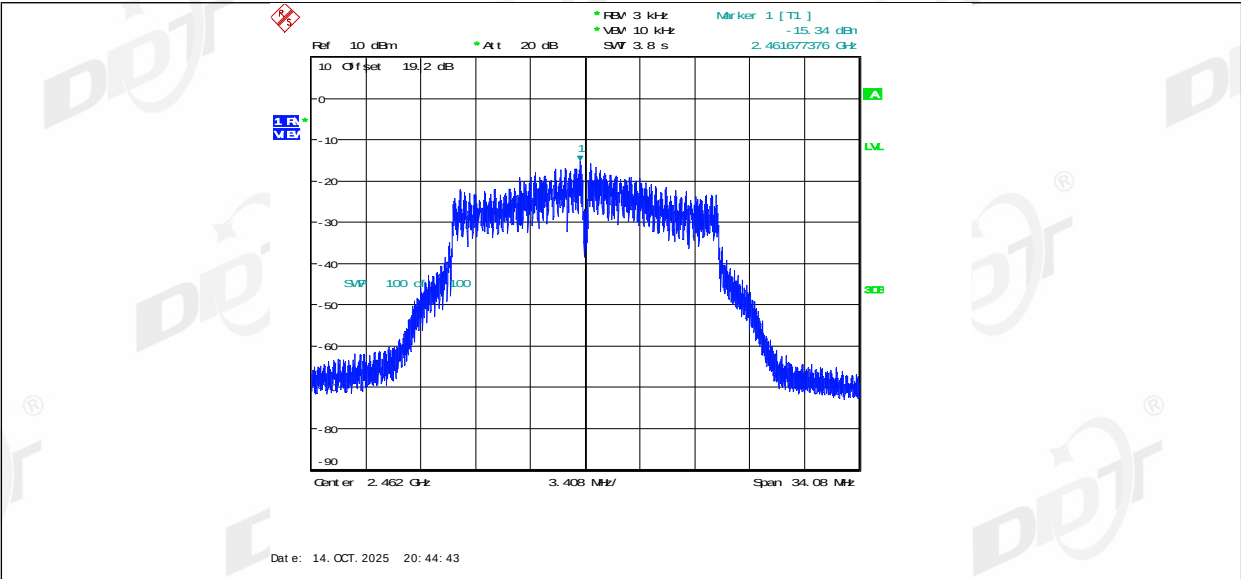
Test Mode	Antenna	Frequency [MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.79	≤8.00	PASS
		2437	-13.27	≤8.00	PASS
		2462	-13.98	≤8.00	PASS
11G	Ant1	2412	-15.55	≤8.00	PASS
		2437	-15.26	≤8.00	PASS
		2462	-15.34	≤8.00	PASS
11N20SISO	Ant1	2412	-18.40	≤8.00	PASS
		2437	-18.32	≤8.00	PASS
		2462	-18.55	≤8.00	PASS

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

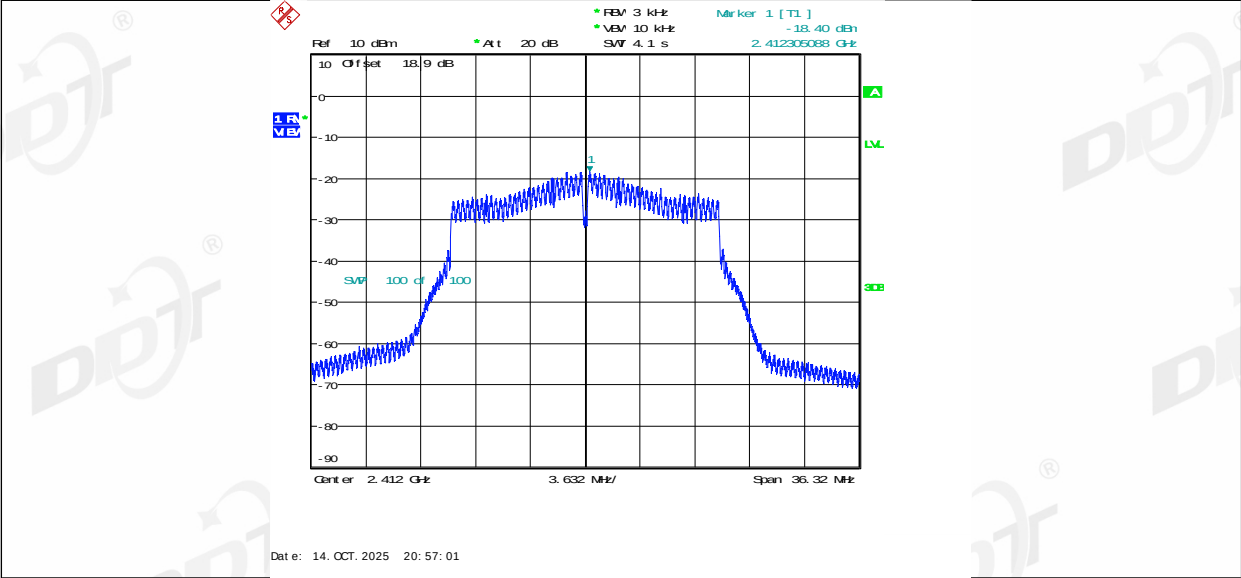
7.5. Test graphs



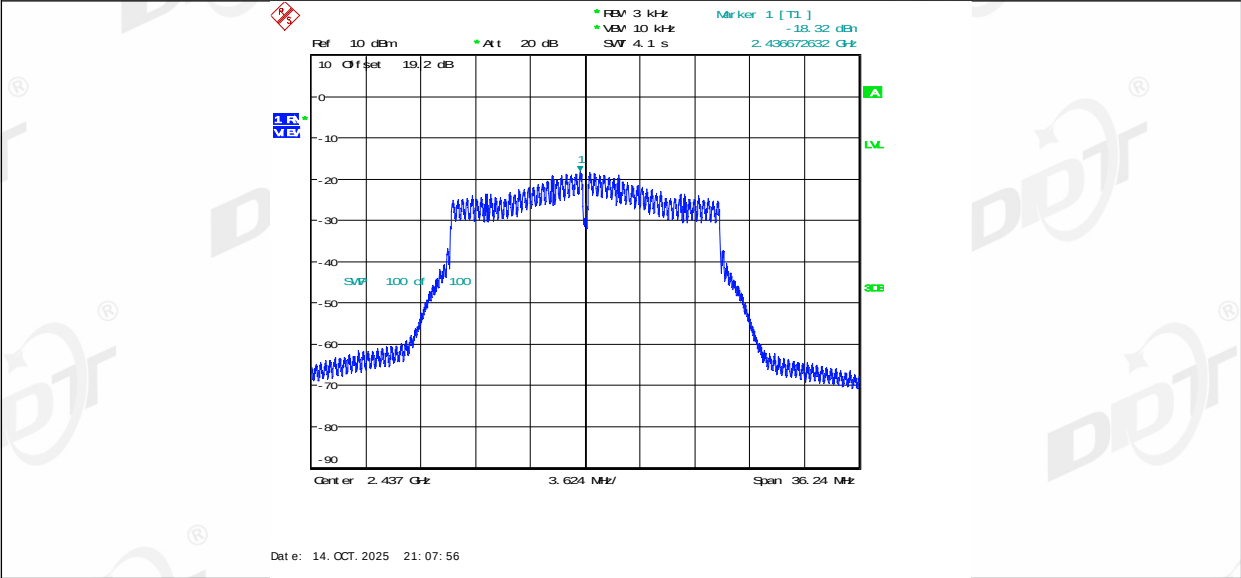




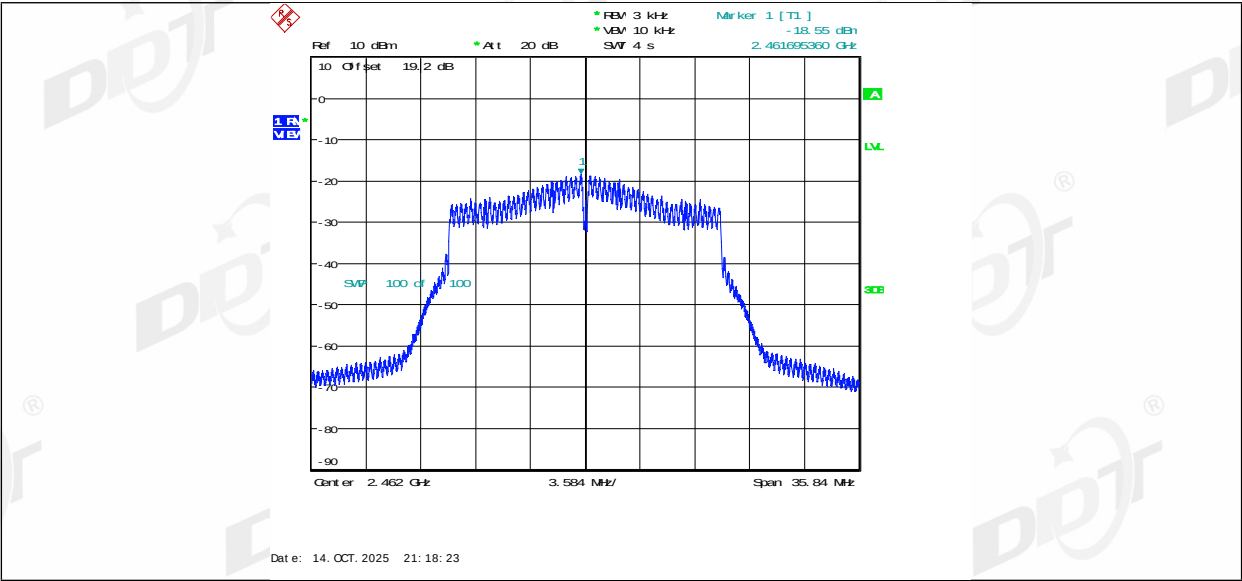
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

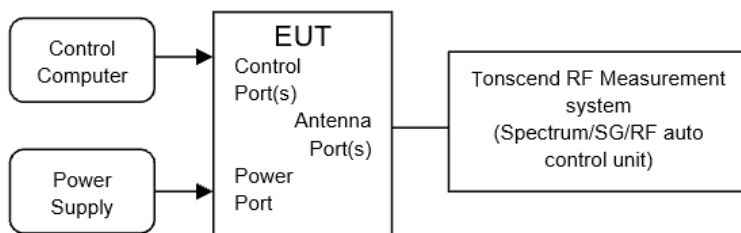


11N20SISO_Ant1_2462



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.

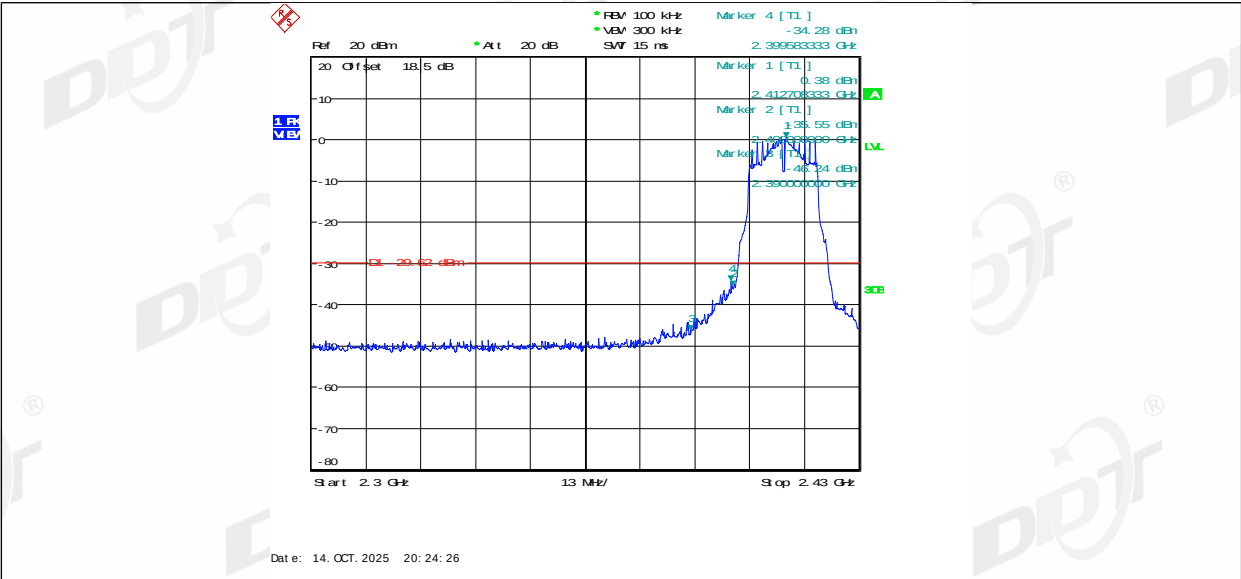
8.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

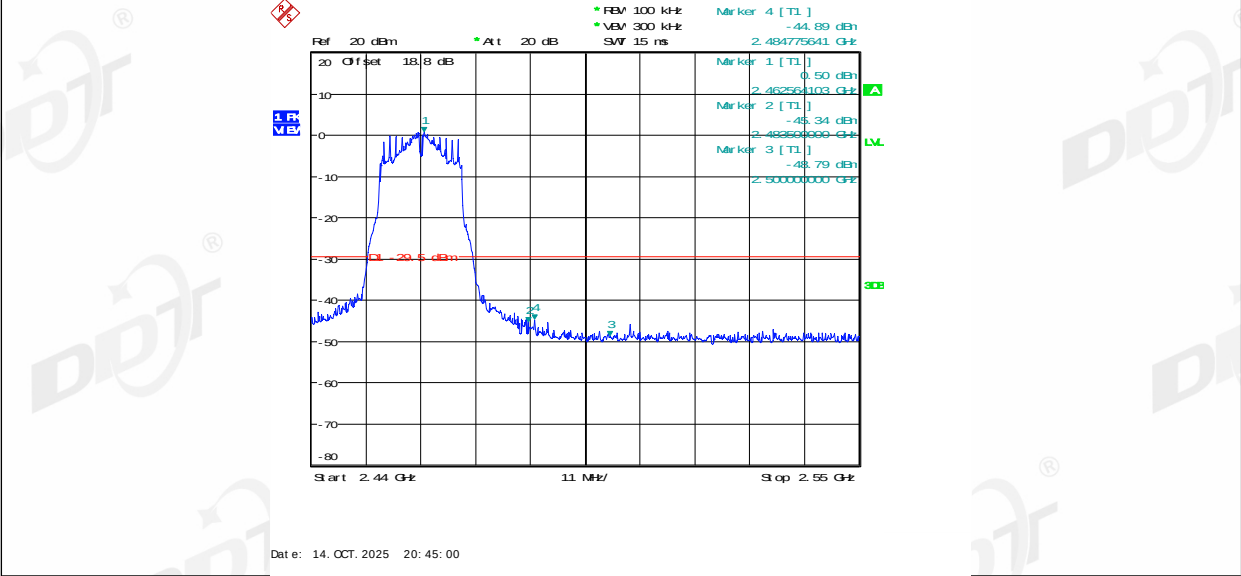
EUT Set Mode	CH or Frequency	Result(dBm)
11b	CH1	Pass
	CH11	Pass
11g	CH1	Pass
	CH11	Pass
11n HT 20	CH1	Pass
	CH11	Pass

8.5. Test graphs

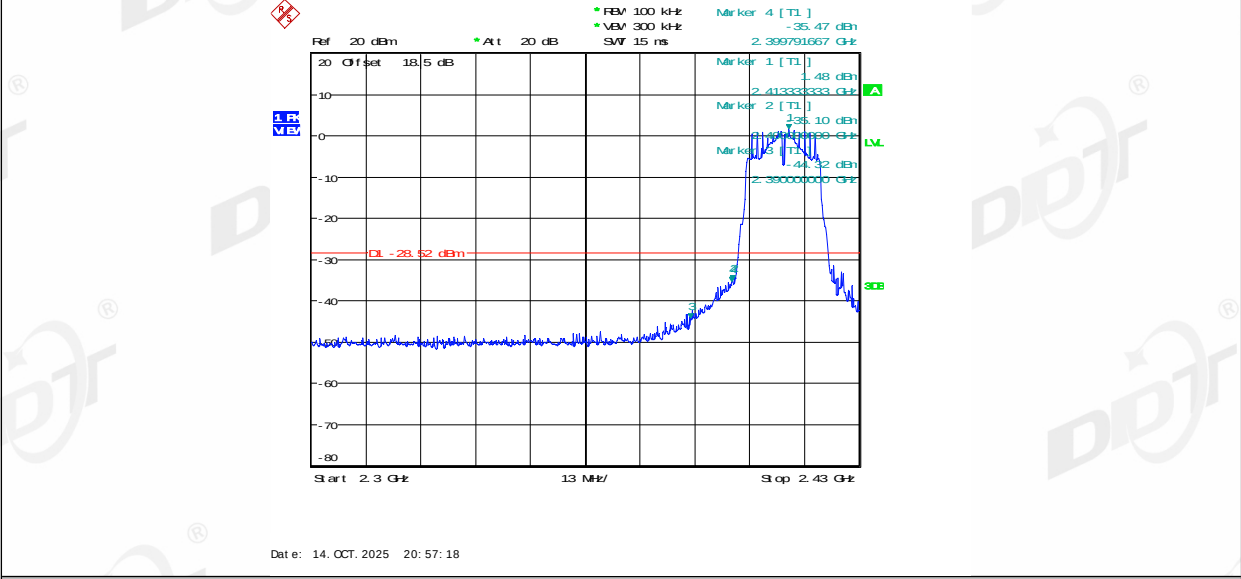




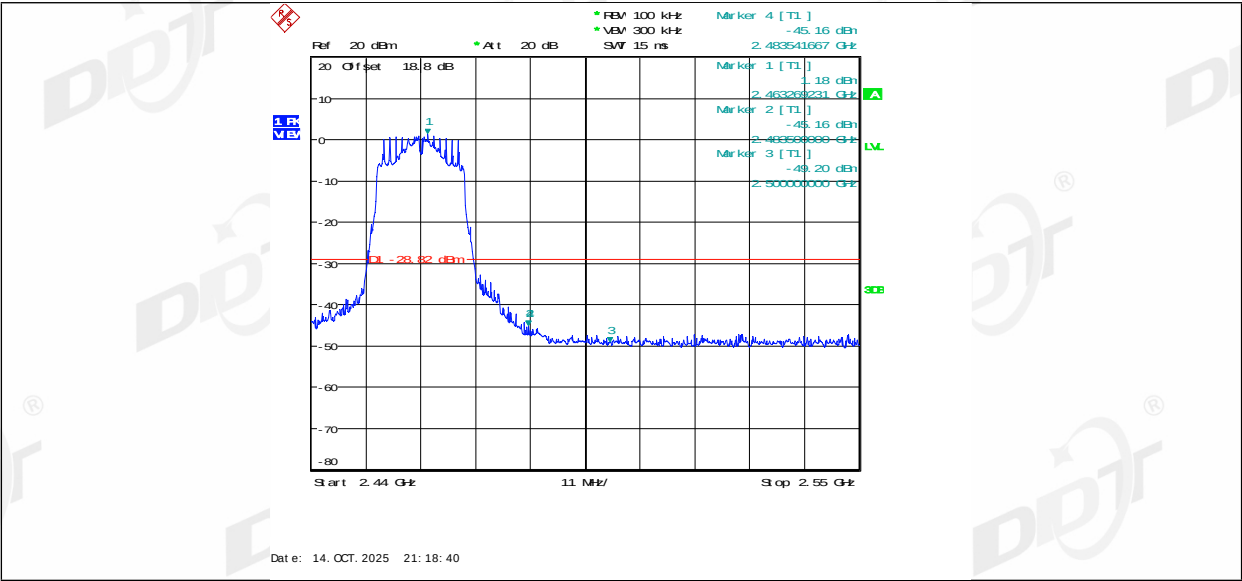
11G Ant1 High 2462



11N20SISO Ant1 Low 2412

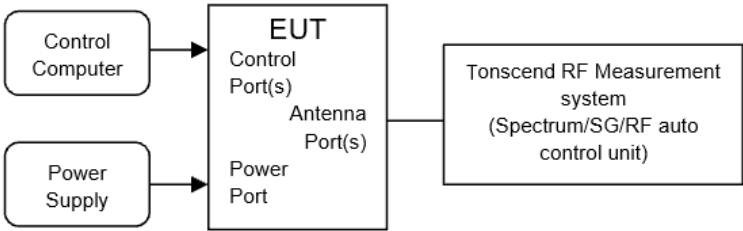


11N20SISO Ant1 High 2462



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

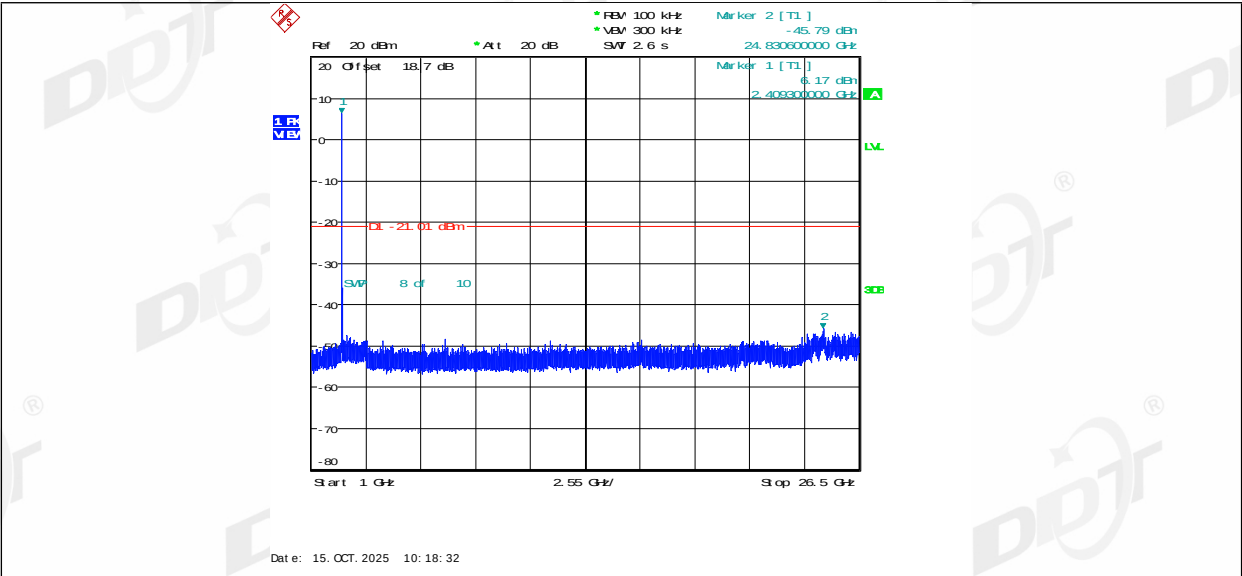
9.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.7℃,47.3%RH	Test Date:	2025.10.14-2025.10.15
Test Power Supply:	DC 12V	Sample Number:	S25090308-002

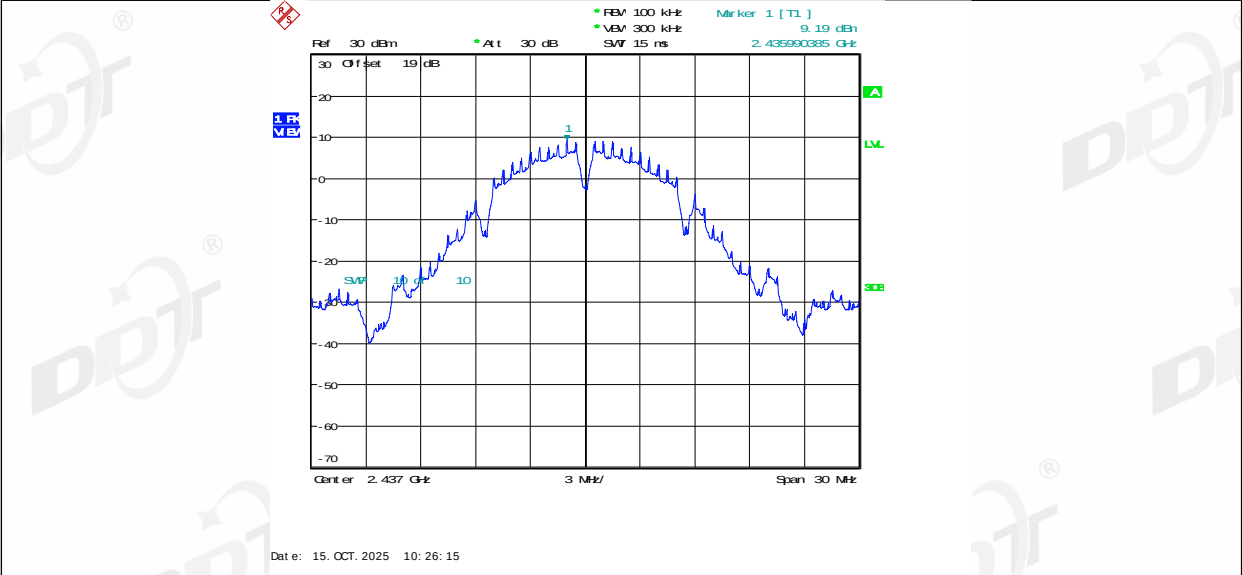
EUT Set Mode	CH or Frequency	Result(dBm)
11b	CH1	Pass
	CH11	Pass
11g	CH1	Pass
	CH11	Pass
11n HT 20	CH1	Pass
	CH11	Pass

9.5. Test graphs

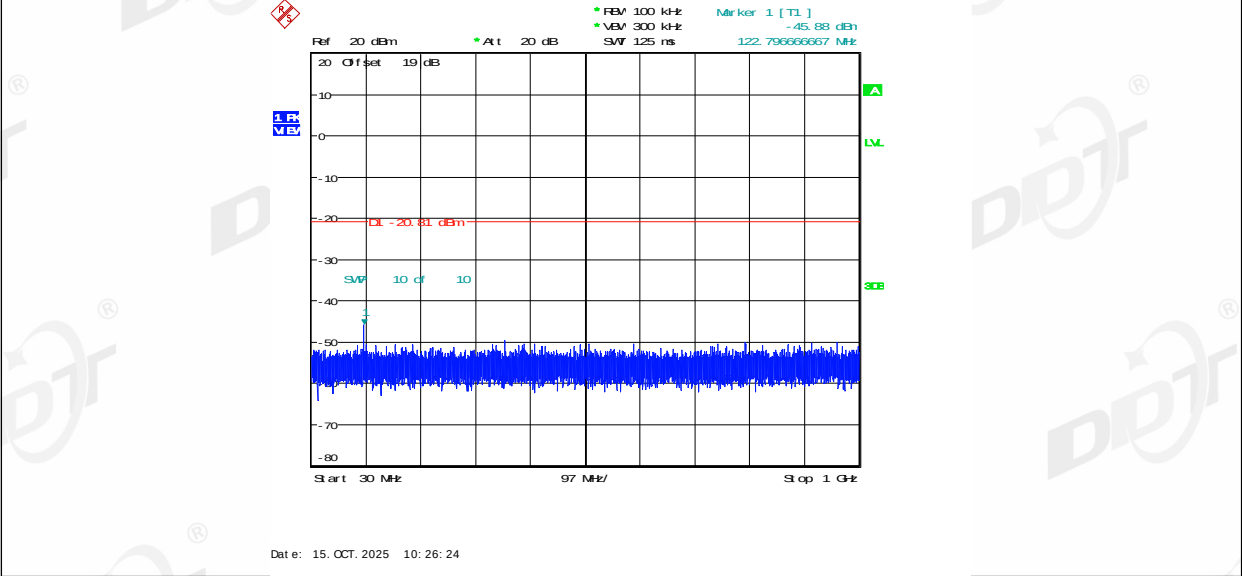




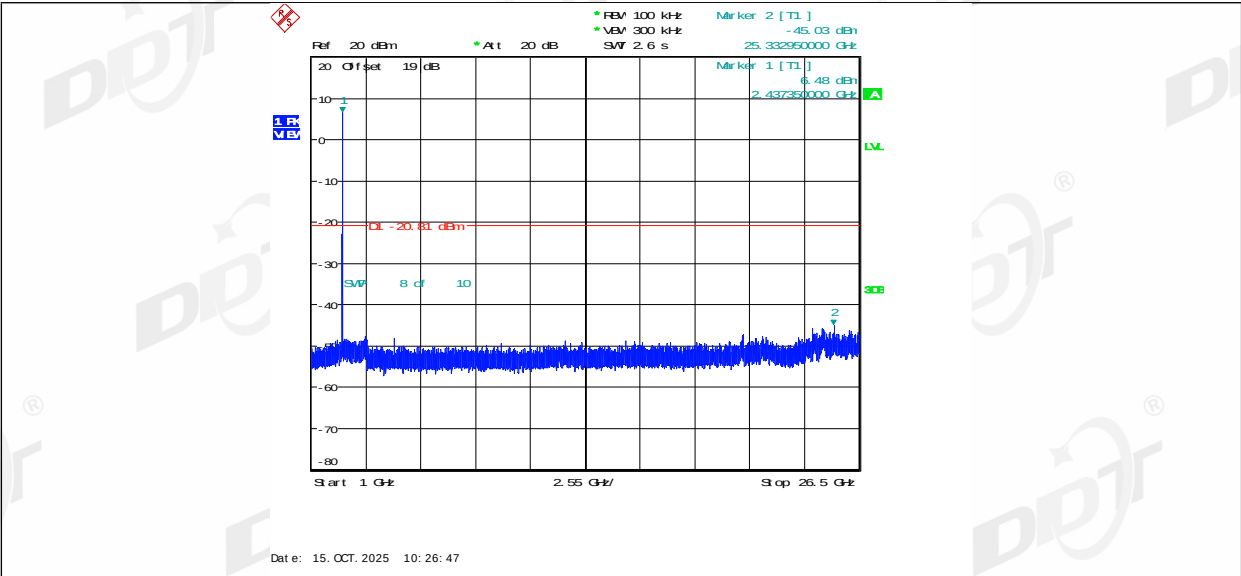
11B_Ant1_2437_0~Reference



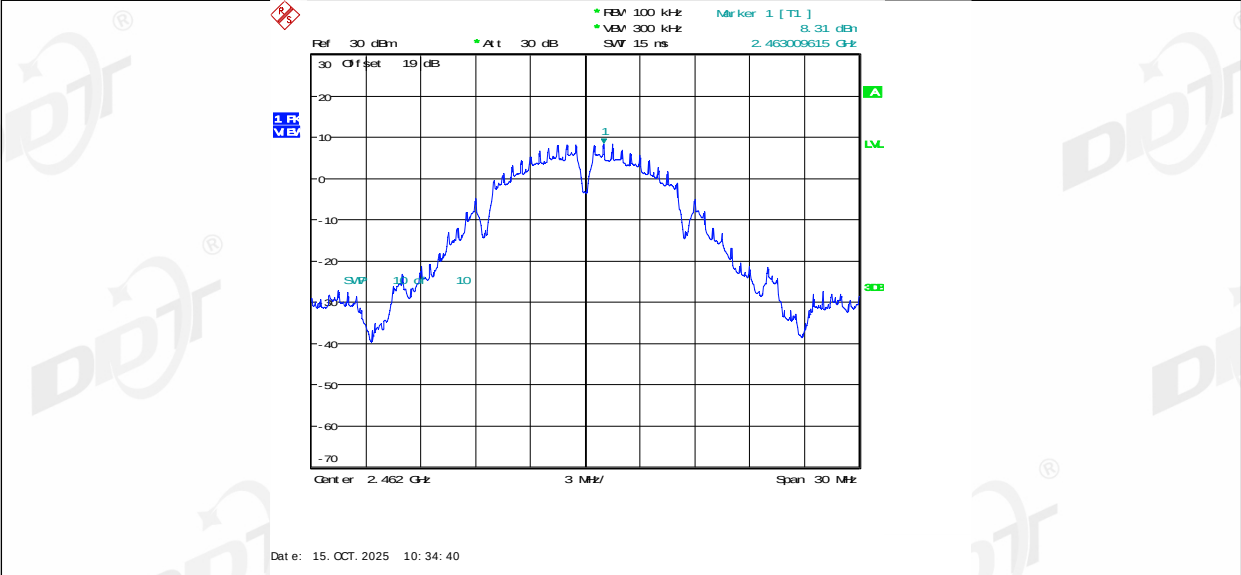
11B_Ant1_2437_30~1000



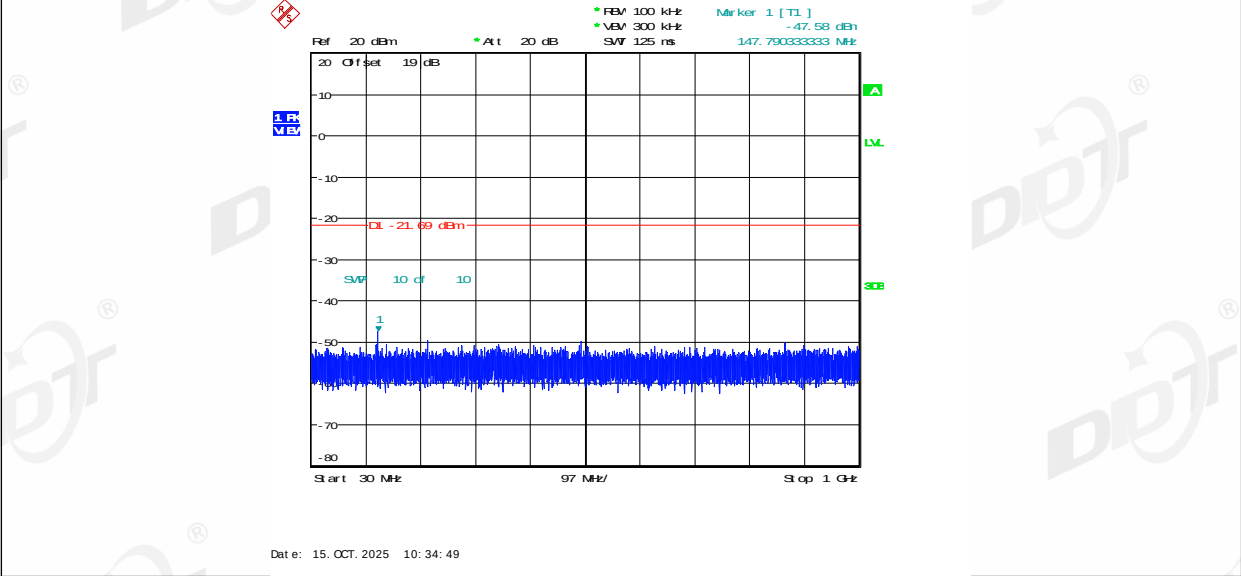
11B_Ant1_2437_1000~26500



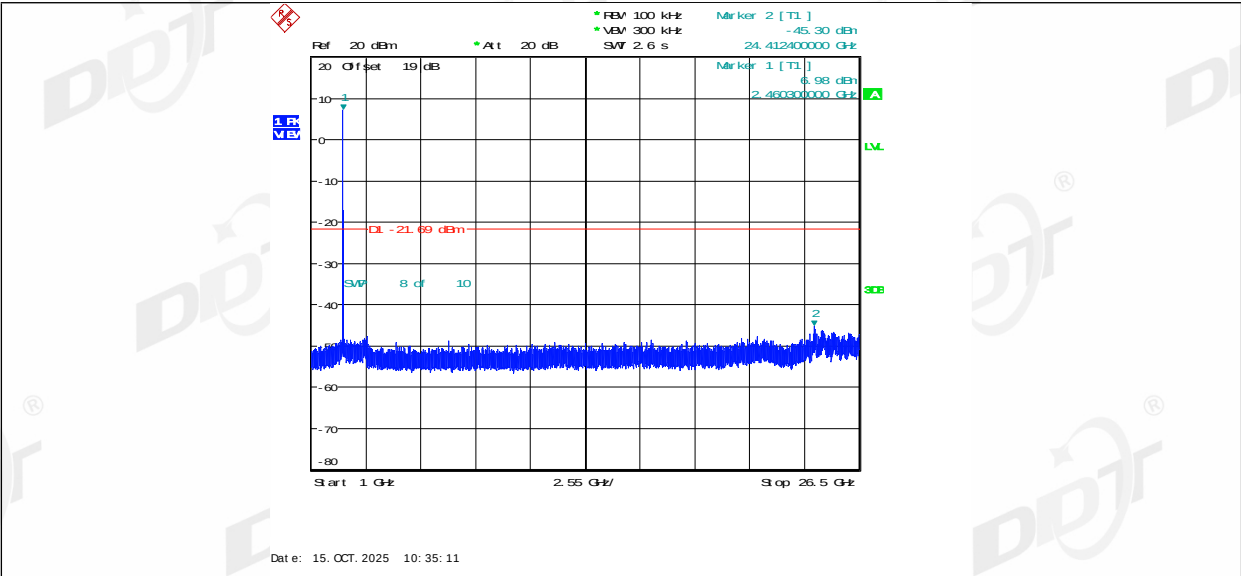
11B_Ant1_2462_0~Reference



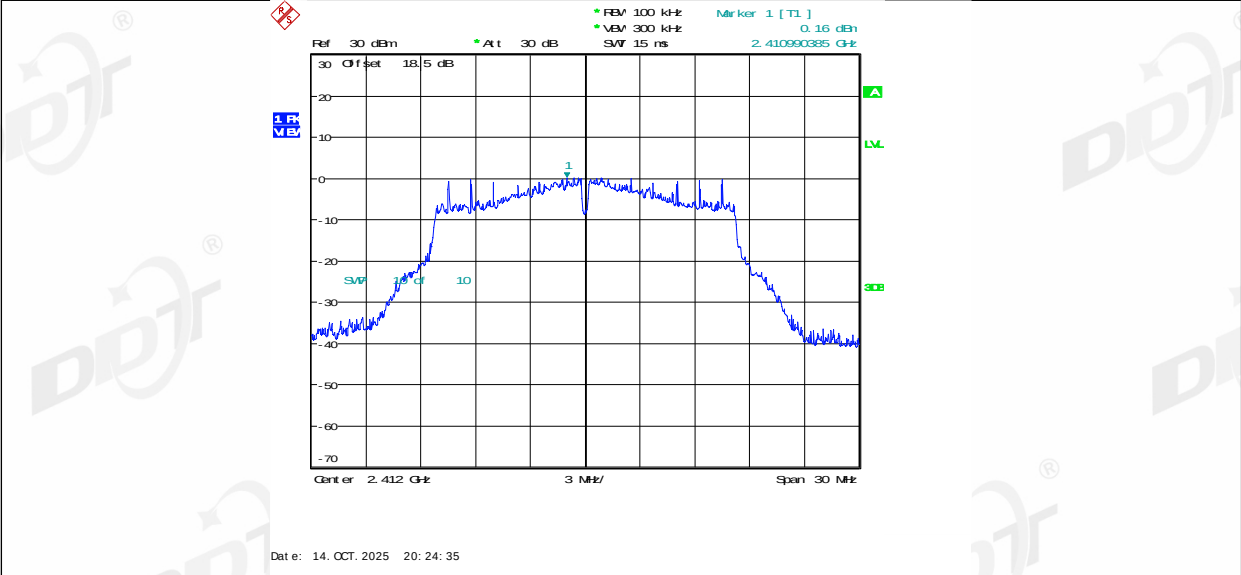
11B_Ant1_2462_30~1000



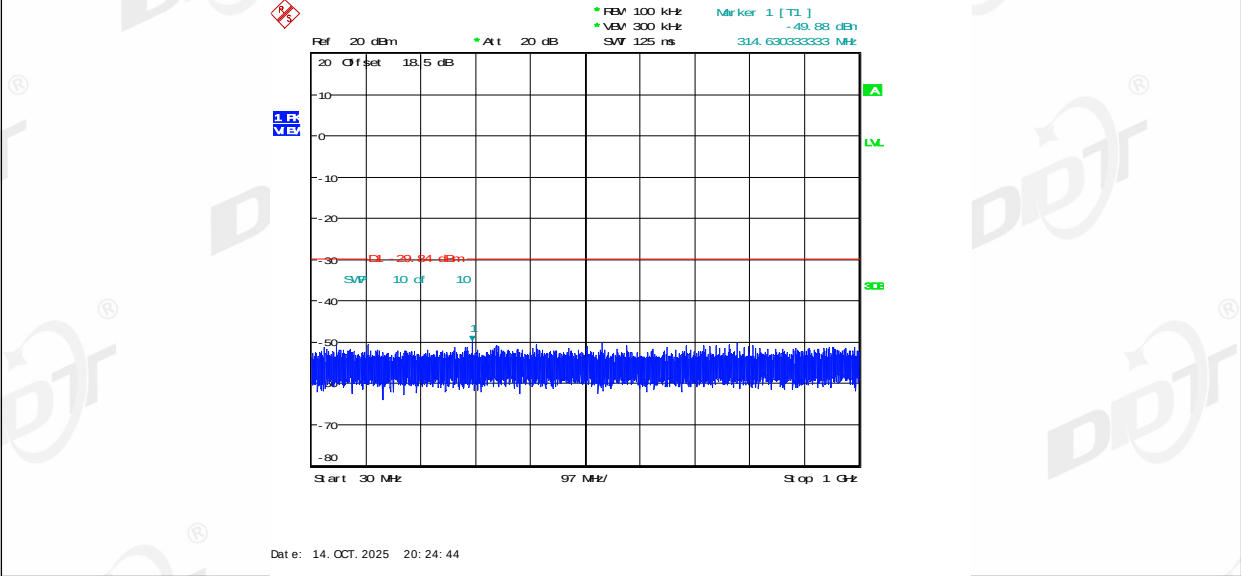
11B_Ant1_2462_1000~26500



11G Ant1 2412 0~Reference



11G Ant1 2412 30~1000



11G Ant1 2412 1000~26500



100 kHz Reference

Ref 30 dBm

* At 30 dB

* RBW 100 kHz

* VBW 300 kHz

SWF 15 ns

Mid ker 1 [T1]

0.84 dBm

2.435990385 GHz

30 dBm

18.8 dB

1

SWF 15 ns

10

Center 2.437 GHz

3 MHz

Span 30 MHz

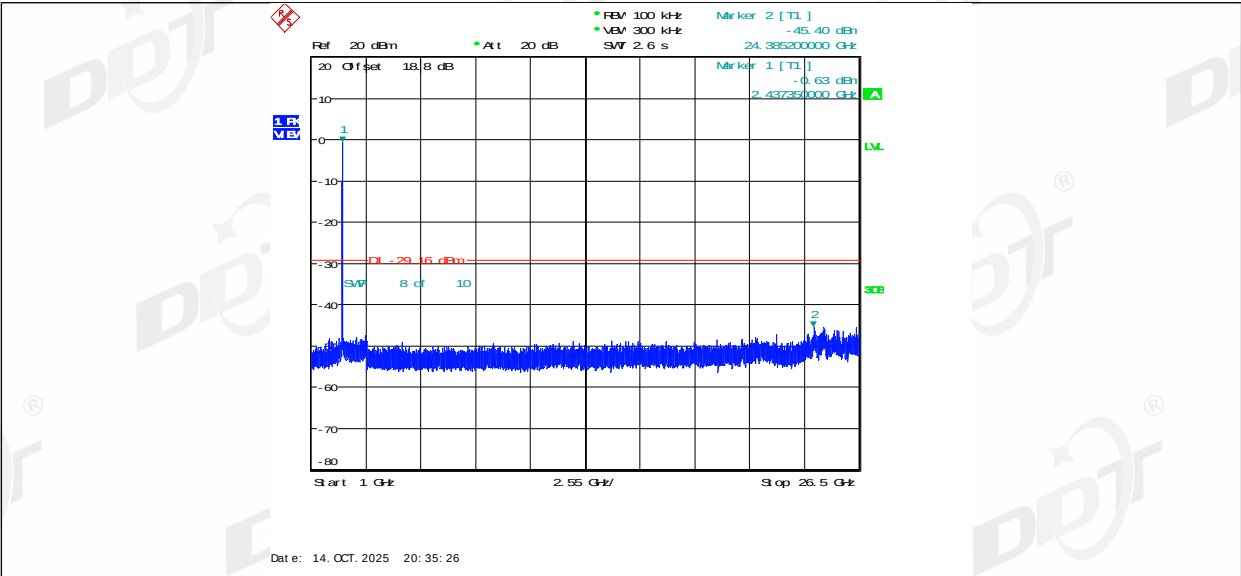
Date: 14. OCT. 2025 20:34:54

The screenshot shows a spectrum analyzer interface with the following details:

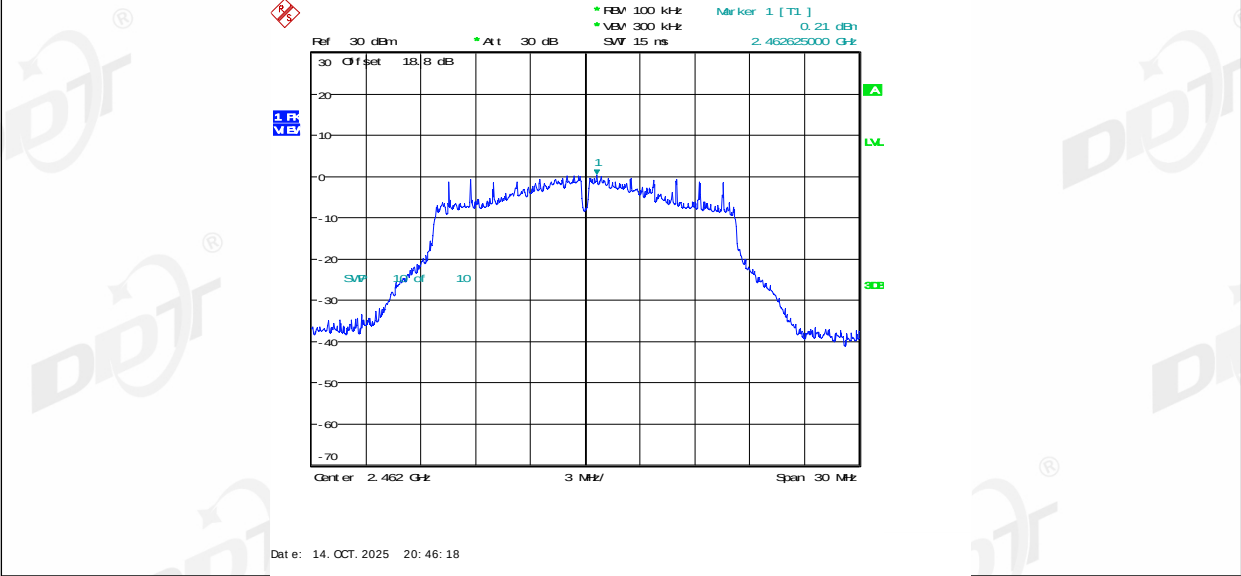
- Top Bar:**
 - Left: A red square icon with a white 'X' and the text 'OFF'.
 - Center: Frequency range '100.000000 MHz'.
 - Right: 'Marker 1 [T1]' and '-49.01 dBm'.
- Parameters:**
 - RBW: 100 kHz
 - VBW: 300 kHz
 - SWF: 125 ns
 - *Att: 20 dB
 - Ref: 20 dBm
 - 389.51433333 MHz
- Plot Area:**
 - Y-axis: Power in dBm, ranging from -80 to 20.
 - X-axis: Frequency in MHz, ranging from 30 to 1 GHz.
 - A red horizontal line is drawn at -29.16 dBm, labeled 'Ref -29.16 dBm'.
 - A green horizontal line is drawn at -49.01 dBm, labeled 'SWF 10 of 10'.
 - A blue trace shows a noisy signal floor around -49 dBm.
 - A green arrow points to the noise floor with the label '1'.
- Bottom Bar:**
 - Start: 30 MHz
 - Center: 97 MHz/
 - Stop: 1 GHz

Date: 14. OCT. 2025 20:35:03

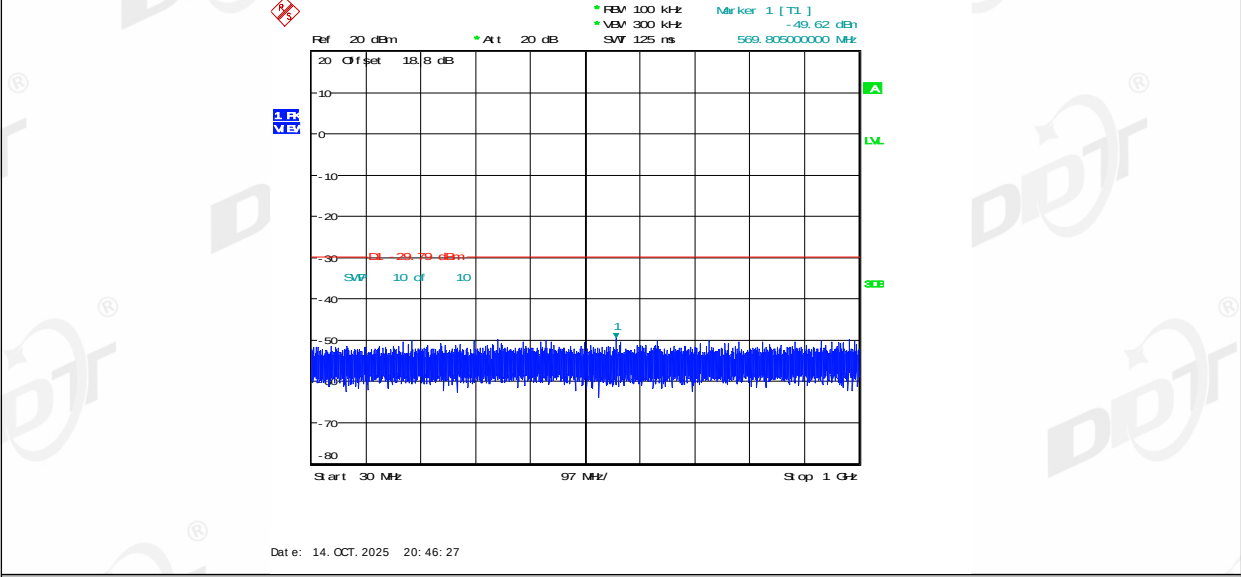
11G	Ant1	2437	1000~26500
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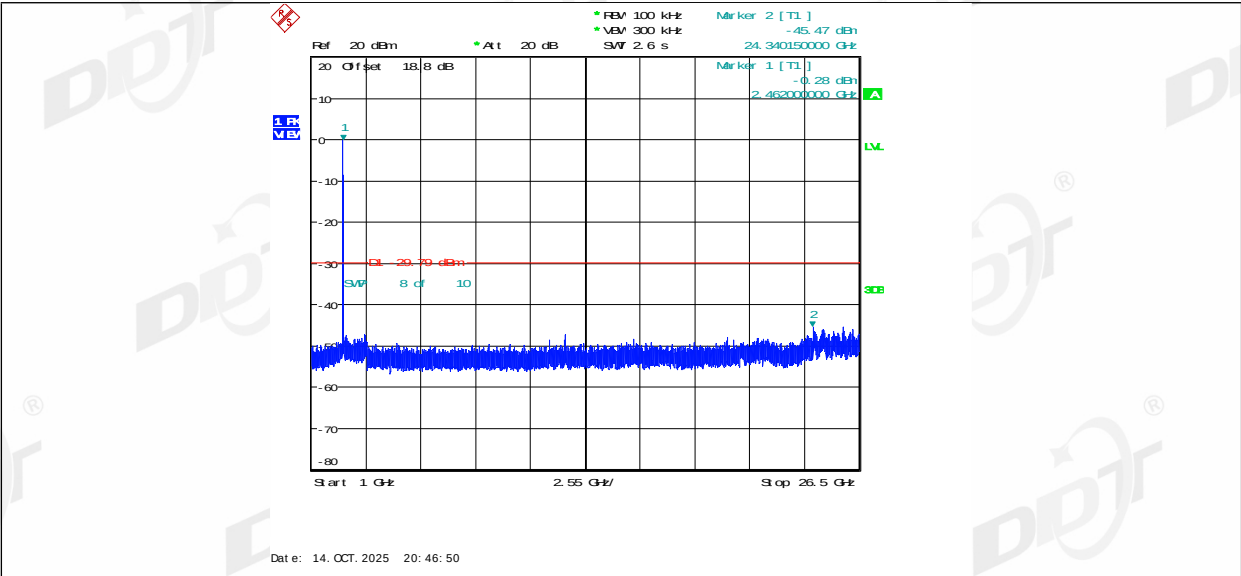
11G_Ant1_2462_0~Reference



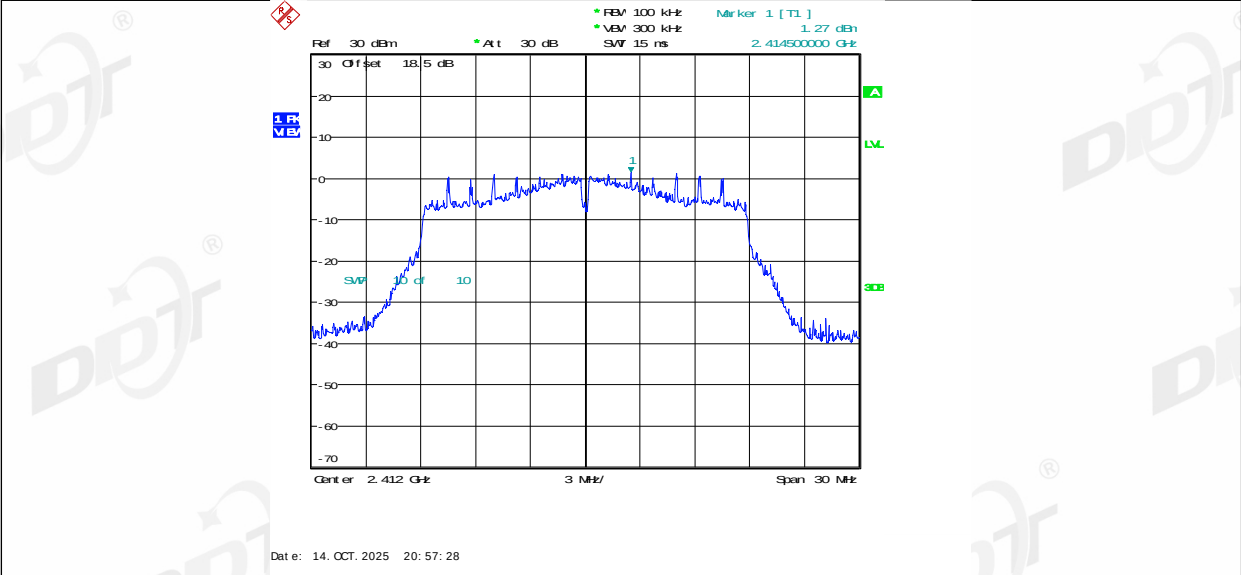
11G_Ant1_2462_30~1000



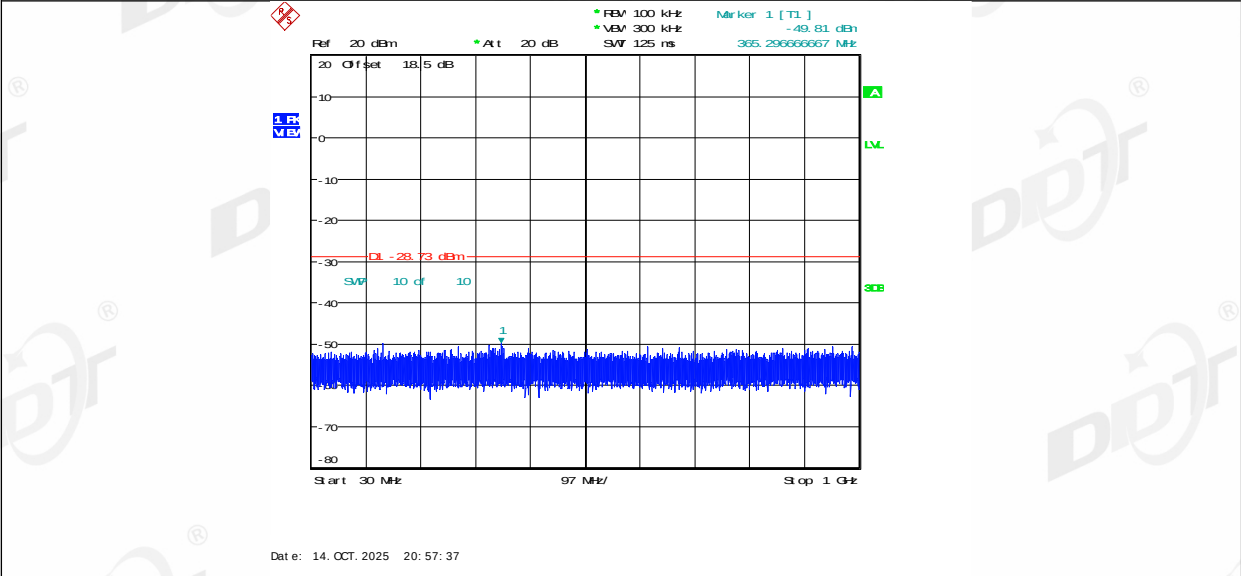
11G_Ant1_2462_1000~26500



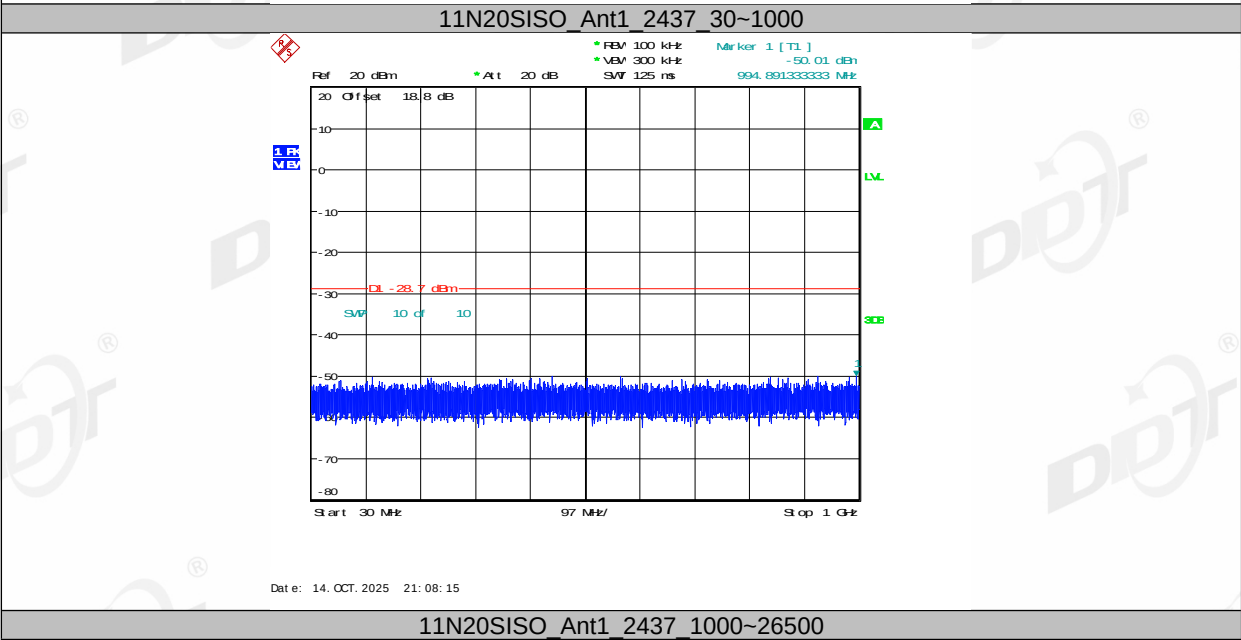
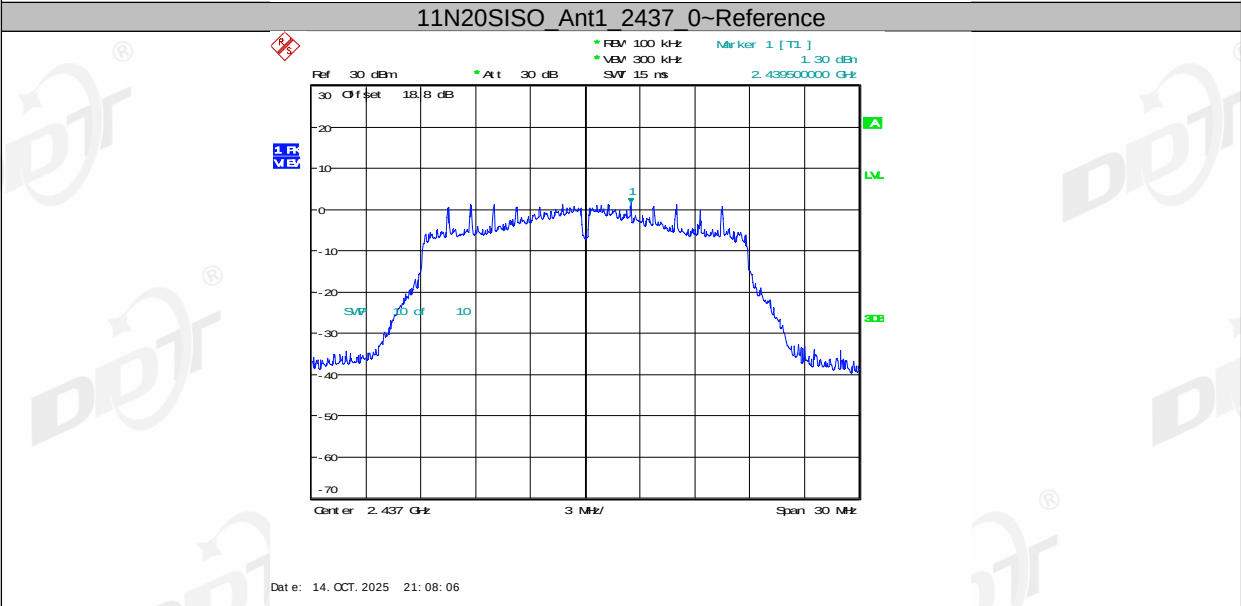
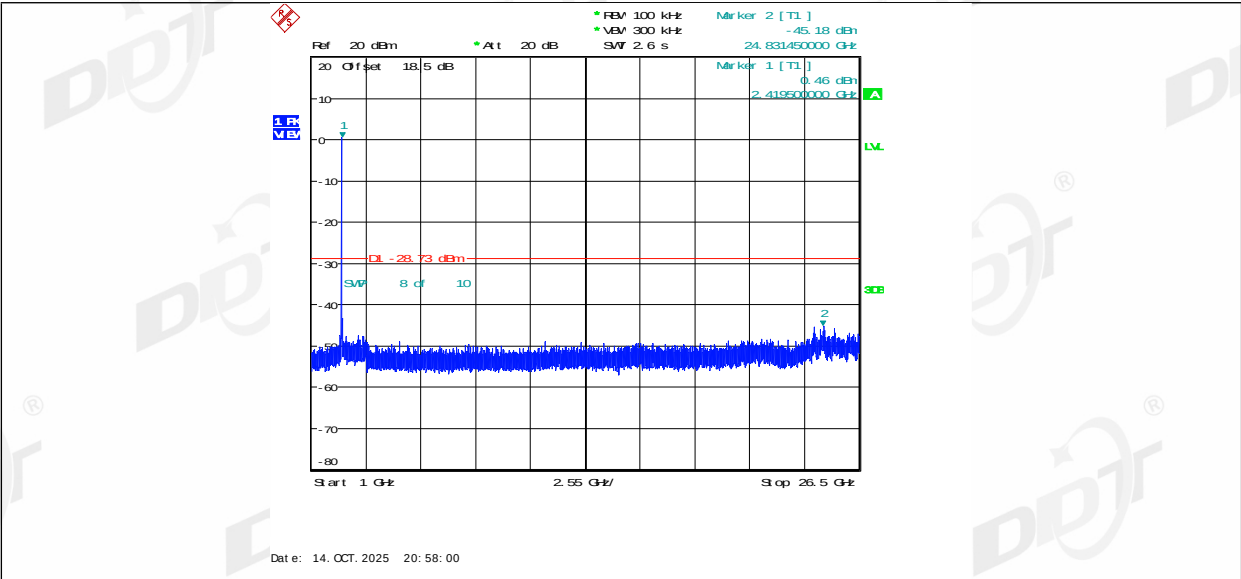
11N20SISO_Ant1_2412_0-Reference

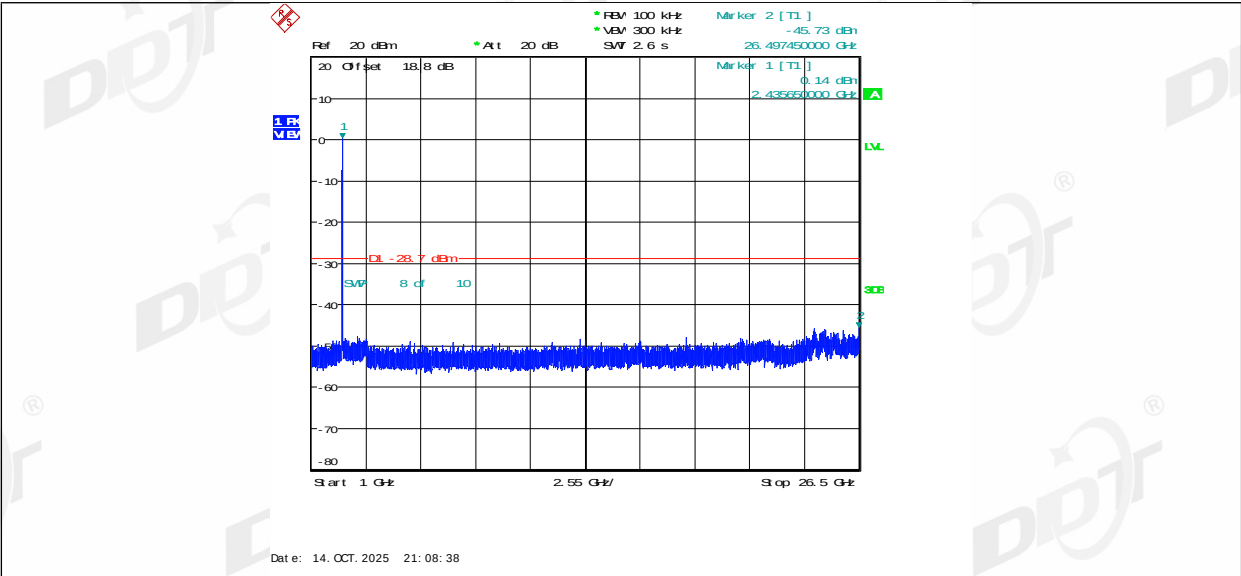


11N20SISO_Ant1_2412_30~1000

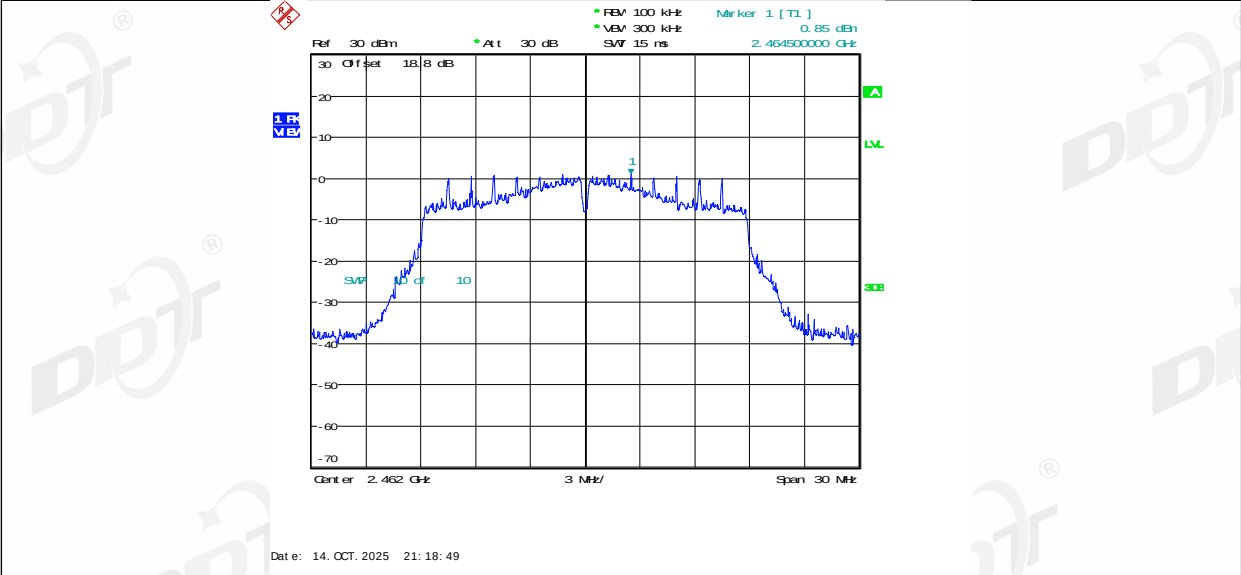


11N20SISO_Ant1_2412_1000~26500

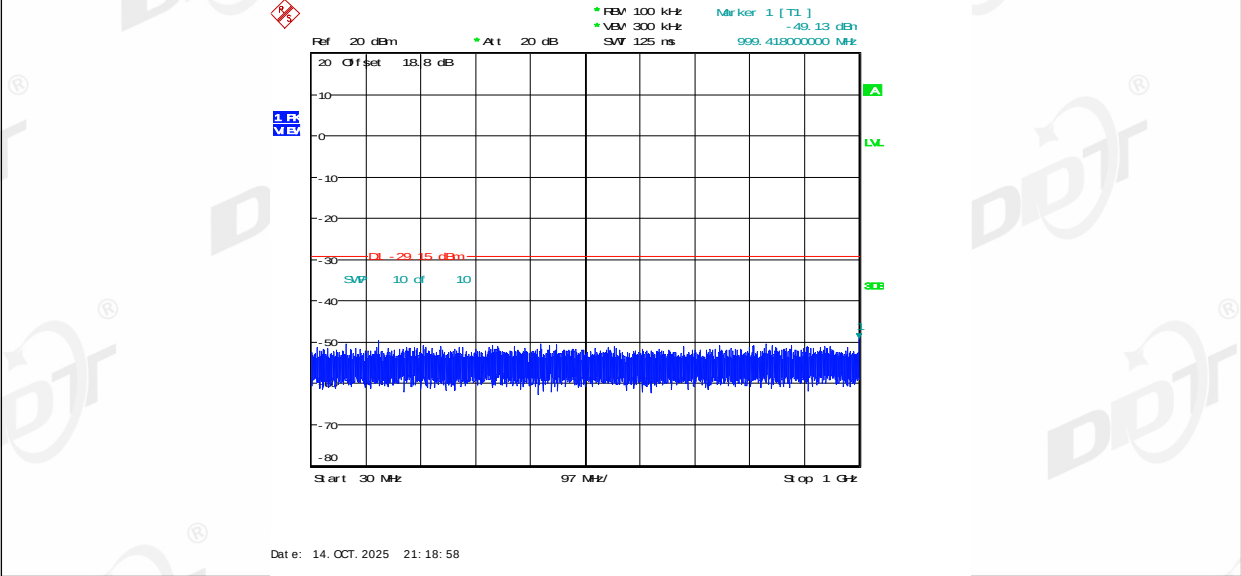




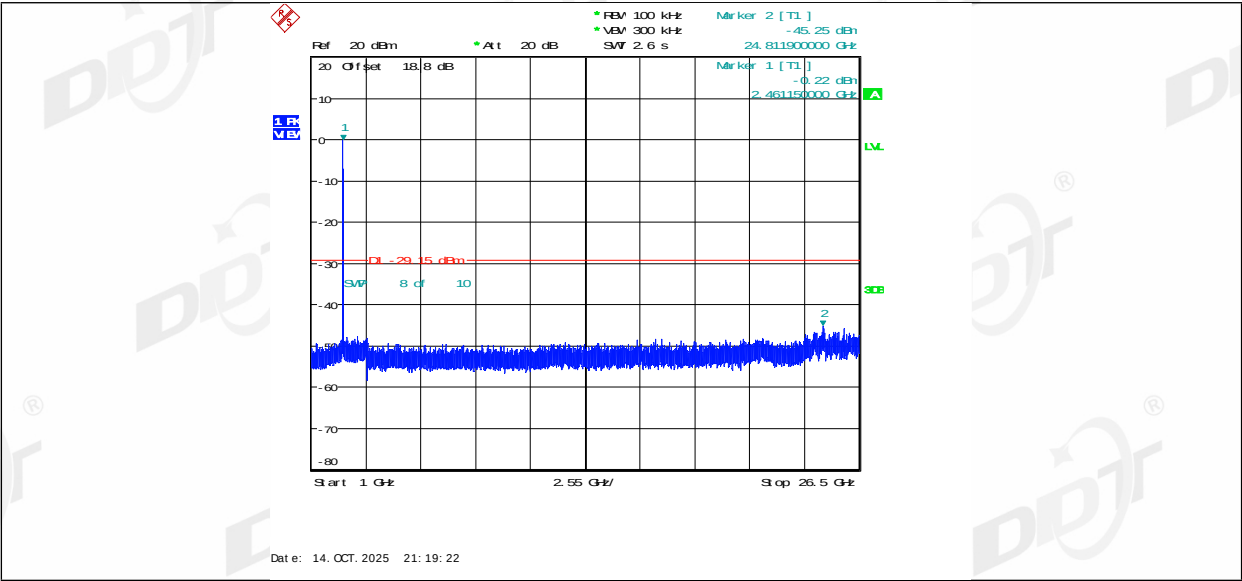
11N20SISO_Ant1_2462_0-Reference



11N20SISO_Ant1_2462_30~1000

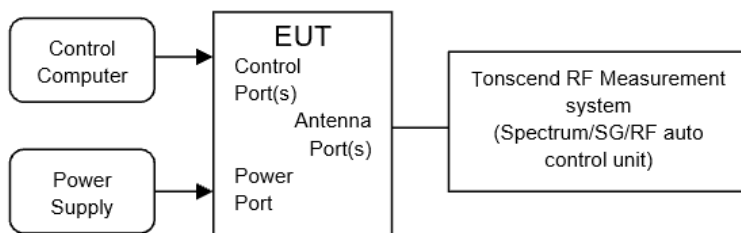


11N20SISO_Ant1_2462_1000~26500



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