

TEST REPORT

Applicant Name : Shenzhen Ai-Thinker Technology Co., Ltd
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Report Number : SZNS2220902-39863E-RF-07B

Test Standard (s)

Japan item 19 of Article 2 Paragraph 1

Sample Description

Product Type: 2.4G Wi-Fi Bluetooth Module
Model No.: Ai-WB2-12F,Ai-WB2-12S
Date Received: 2022-09-02
Date of Test: 2022-10-25 to 2022-11-24
Report Date: 2022-11-29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Roger.Ling

Roger.Ling
EMC Engineer

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
TEST METHODOLOGY	3
EUT TEST CONFIGURATION	4
DESCRIPTION OF TEST CONFIGURATION	4
TEST VOLTAGE	4
EUT EXERCISE SOFTWARE	4
SUPPORT EQUIPMENT LIST AND DETAILS	5
SUMMARY OF TEST RESULTS	6
TEST EQUIPMENT LIST	7
FREQUENCY ERROR	8
LIMIT	8
TEST PROCEDURE	8
TEST DATA	8
OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH	15
LIMIT	15
TEST PROCEDURE	15
TEST DATA	15
TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY	35
LIMIT	35
TEST PROCEDURE	35
TEST DATA	35
ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN	51
LIMIT	51
TEST PROCEDURE	51
TEST DATA	52
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY	110
LIMIT	110
TEST PROCEDURE	110
MEASUREMENT RESULT	110
INTERFERENCE PREVENTION FUNCTION	126
REQUIREMENT	126
TEST PROCEDURE	126
MEASUREMENT RESULT	126
CONSTRUCTION PROTECTION CONFIRMATION	127
LIMIT	127
CONFIRMATION METHOD	127

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product		2.4G Wi-Fi Bluetooth Module
Tested Model		Ai-WB2-12F,
Multiple Model		Ai-WB2-12S
Model difference		Please refer to DOS letter
Radio Type		WLAN
Wi-Fi Technical Parameters	Support Technical	2.4GHz Wi-Fi: 802.11b/g/n HT20
	Modulation Type	DSSS,OFDM
	Frequency Range	802.11b/g/n HT20: 2412 MHz-2472 MHz
	Output Power	802.11b: 6.0mW/MHz 802.11g:3.0mW/MHz 802.11n HT20: 3.0mW/MHz
	Antenna Gain*	Internal on board Antenna (provided by the applicant) Ant1: 2.46dBi;
Nominal Power Supply:		DC 2.7-3.6V(typical DC 3.3V)
Sample serial number		SZNS2220902-39863E-RF-S1(assigned by ATC)
Sample/EUT Status		Good condition

Note: the series model Ai-WB2-12F and Ai-WB2-12S have same circuit and antenna design, the difference is Ai-WB2-12S PCBA deleted 6 pin pads, as the 6 pin was used for control flash component but the module's flash are inside, the extra 6 pins are unavailable which was confirmed by manufacturer. The output power was tested use both the two models and verified they have same setting, so other items was only test on model Ai-WB2-12F.

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 of Article 2 Paragraph 1, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth and Spreading Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power And Output Power Tolerance
- Receiver Spurious Emission Strength
- Construction Protection Confirmation
- Interference Prevention Function

Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

For 2.4G band, 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

For 802.11b/g/n20 modes 1, 7 and 13 channels were tested.

Test Voltage

The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

NV: Normal Voltage: DC 3.3V

LV: Low Voltage: DC 2.7V

HV: High Voltage: DC 3.6V

EUT Exercise Software

“BouffaloLabDevCube”*exercise software was made to the EUT tested.

Power Level as below:

Mode	DataRate (Mbps)	Power Level*
802.11 b	1	19
802.11 g	6	16
802.11 n20	MCS0	16

The software and power level was provided by the applicant.

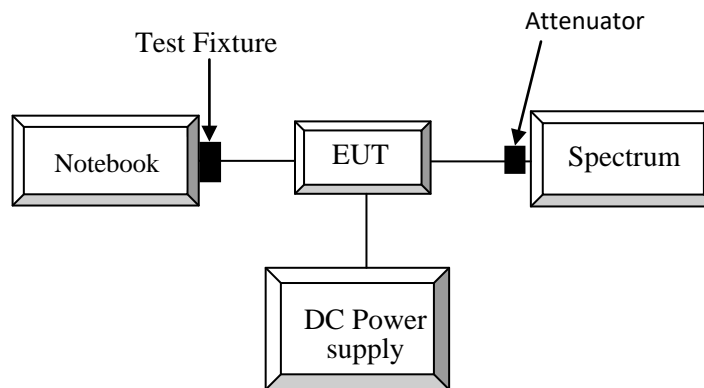
The worst-case data rates are determined to be as above for each mode based upon investigation by measuring the average power, peak power and PSD across all data rates, bandwidths and modulations.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Test Fixture	Unknown	Unknown
LENOVO	Notebook	ThinkPad x240	SL10F31638JS
UNI-T	DC Power Supply	UTP8305B	10584

External I/O Cable

Cable Description	Length (m)	From/Port	To
Data Cable	0.1	Test Fixture	EUT
Power cable	1.0	DC Power Supply	EUT

Configuration of Test Setup

SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19, Rules Section	Description of Test	Result
3	Frequency Error	Compliant
4	Occupied Bandwidth and Spreading Bandwidth	Compliant
5	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
6	Antenna Output Power and Output Power Tolerance	Compliant
7	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
8	Transmission Antenna Gain	Not Applicable
9	Transmission Radiation Angle Width	Not Applicable
10	Carrier sense capability	Not Applicable**
11	Frequency Hopping Dwell Time	Not Applicable*
12	Interference Prevention Function	Compliant
Note 1	Construction Protection Confirmation	Compliant

Not Applicable - This test item was not required for the output power less than 12.14 dBm/MHz (E.I.R.P) for less than 20MHz bandwidth

Not Applicable* - Testing is only required for FHSS system devices.

Not Applicable**-The OBW of EUT is less than 26 MHz and the EUT is not radio control model aircraft.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101948	2021/12/13	2022/12/12	CCIC	C
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606	2021/12/13	2022/12/12	CCIC	C
Fluke	Multi Meter	45	7664009	2021/12/14	2022/12/13	BACL	C
UNI-T	DC Power Supply	UTP8305B	10584	NCR	NCR	/	/
WEINSCHL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13	CCIC	C

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Note:

A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)

B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from A to C.

FREQUENCY ERROR

Limit

50 ppm or below

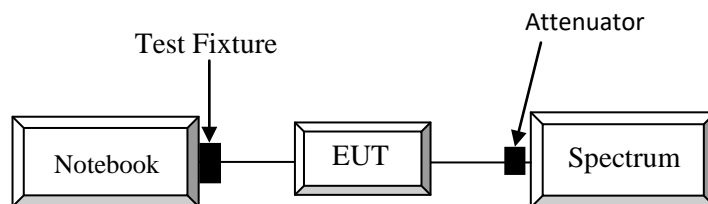
Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: RB: 1kHz / VB: 3kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.



Test Data

Environmental Conditions

Temperature:	25°C
Relative Humidity:	50%
ATM Pressure:	101.0kPa

The testing was performed by Glenn.Jiang on 2022-10-27 and 2022-10-28.

Test Result: Compliant

Test Mode: Transmitting (Un-modulation)

Normal Voltage:

Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2412	2411.9967	-1.37	< 50
2442	2441.9964	-1.47	
2472	2471.9961	-1.58	

Low Voltage:

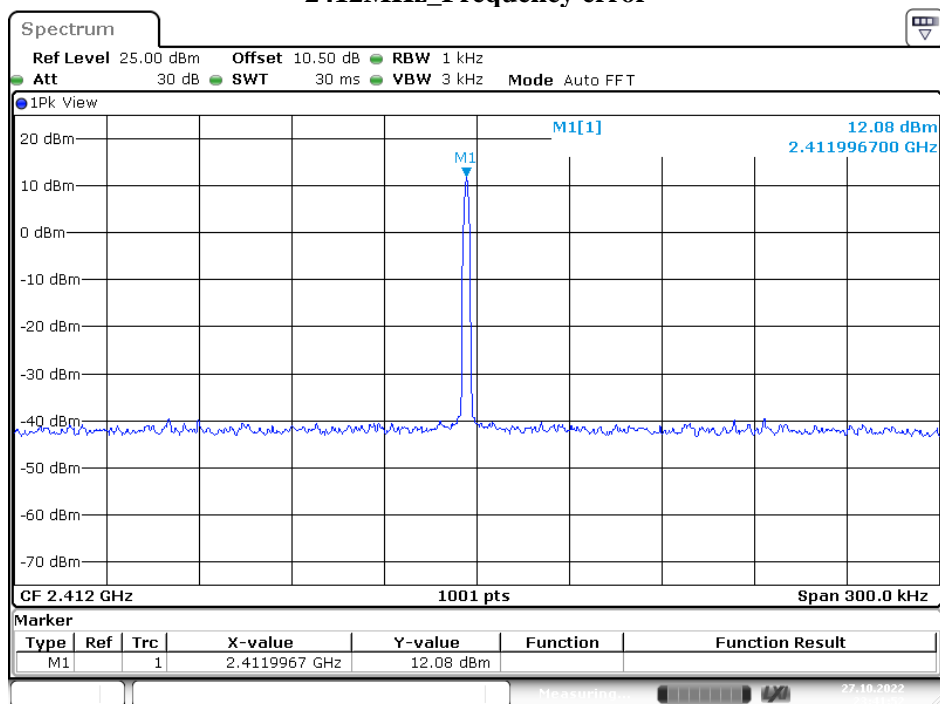
Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2412	2411.9967	-1.37	< 50
2442	2441.9964	-1.47	
2472	2471.9964	-1.46	

High Voltage:

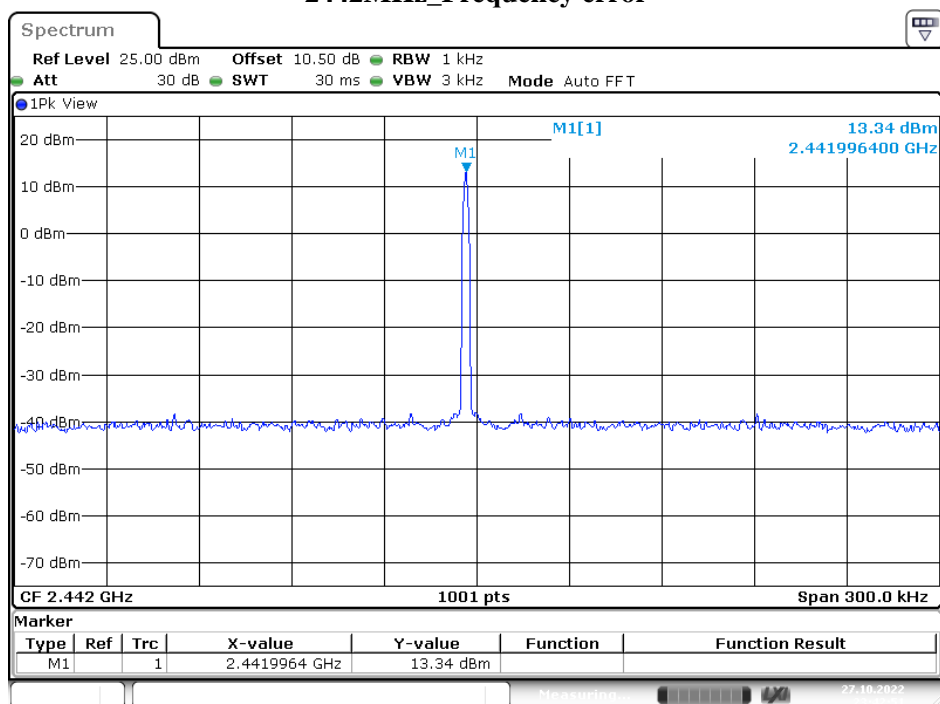
Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2412	2411.9967	-1.37	< 50
2442	2441.9964	-1.47	
2472	2471.9964	-1.46	

Note1: Frequency tolerance = (Measure Frequency - Center Frequency) * 10^6 / Center Frequency

Please refer to the following plots:

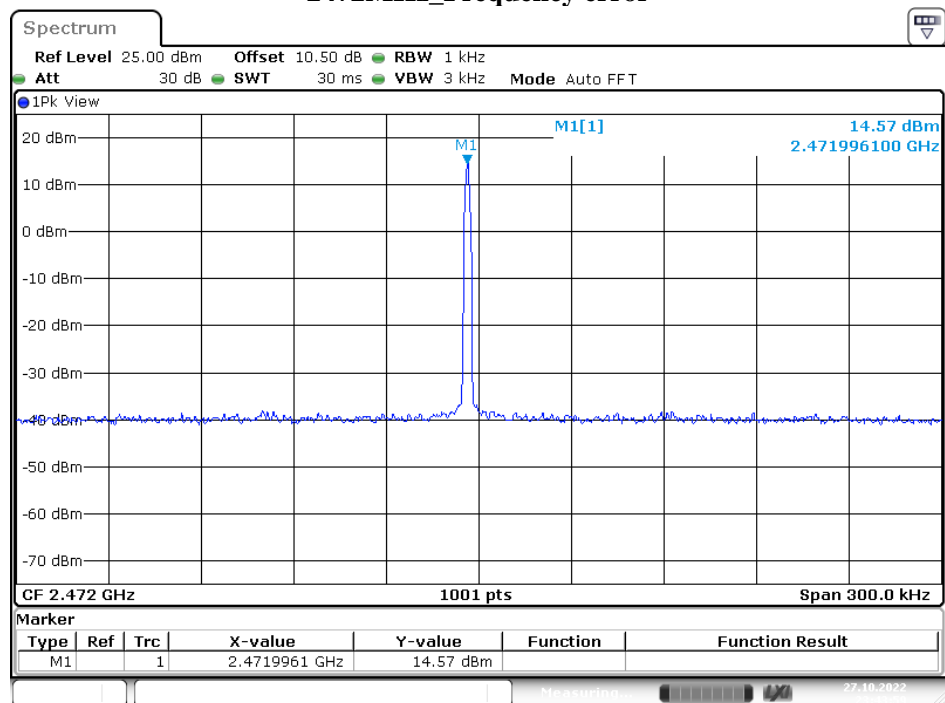
Normal Voltage:**2412MHz_Frequency error**

Date: 27.OCT.2022 23:41:52

2442MHz_Frequency error

Date: 27.OCT.2022 23:42:52

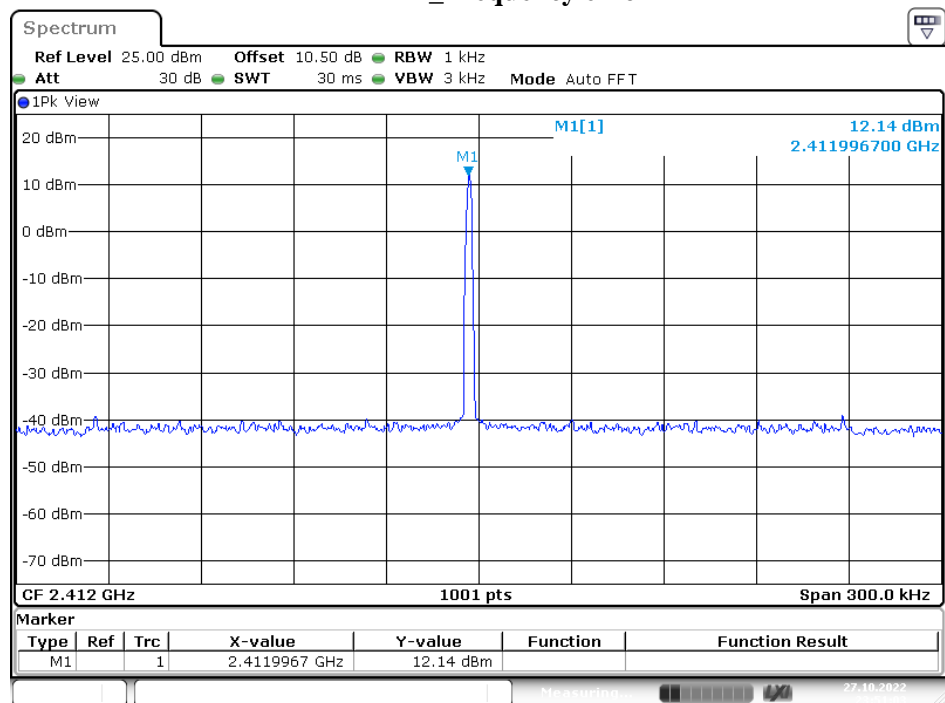
2472MHz_Frequency error



Date: 27.OCT.2022 23:44:00

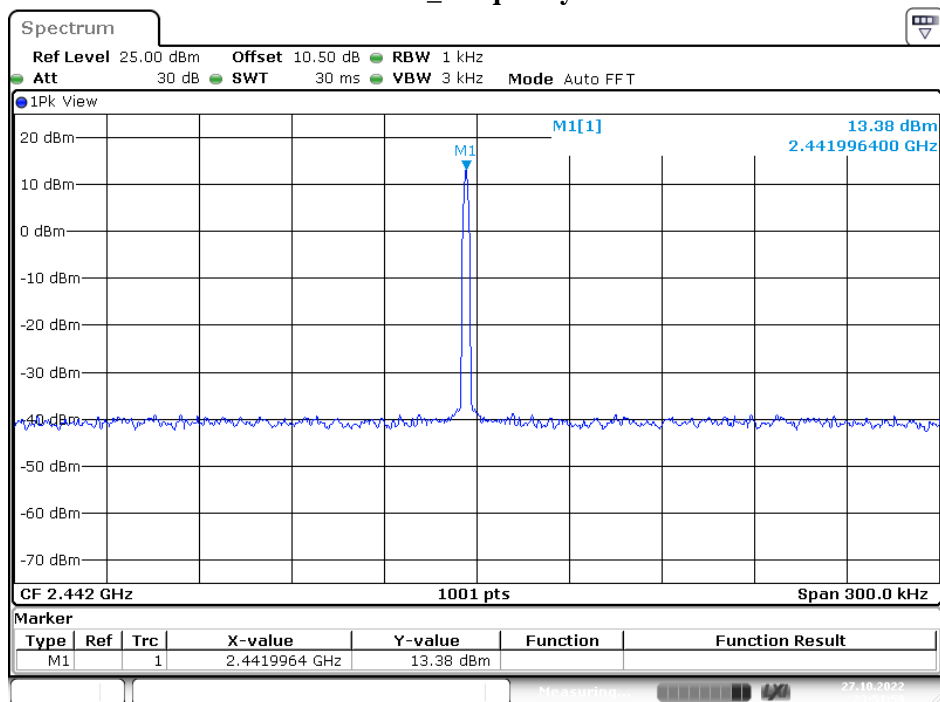
Low Voltage:

2412MHz_Frequency error



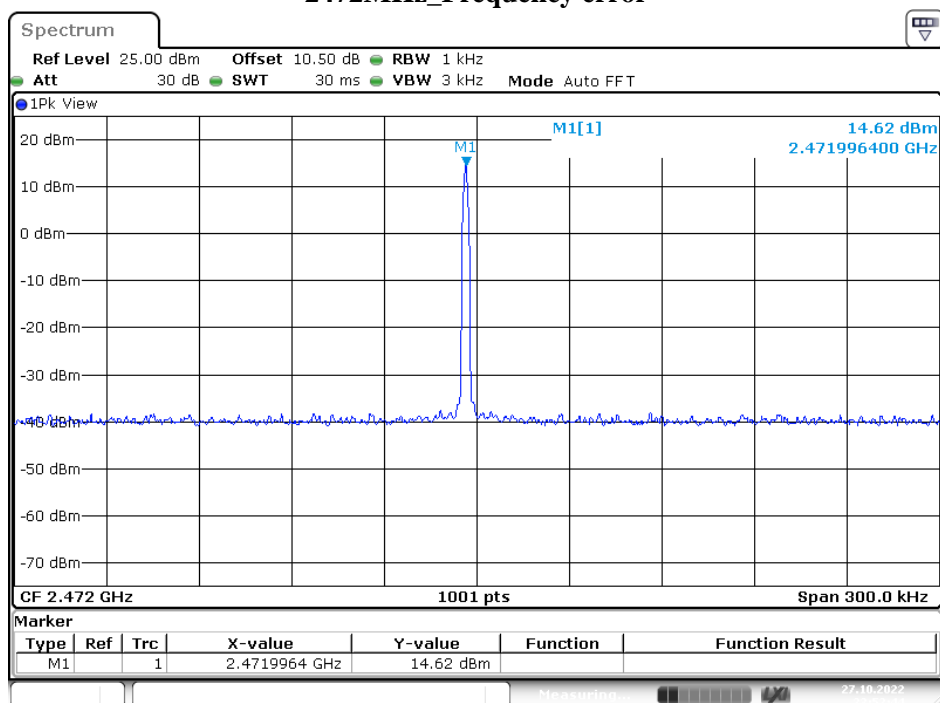
Date: 27.OCT.2022 23:51:03

2442MHz_Frequency error

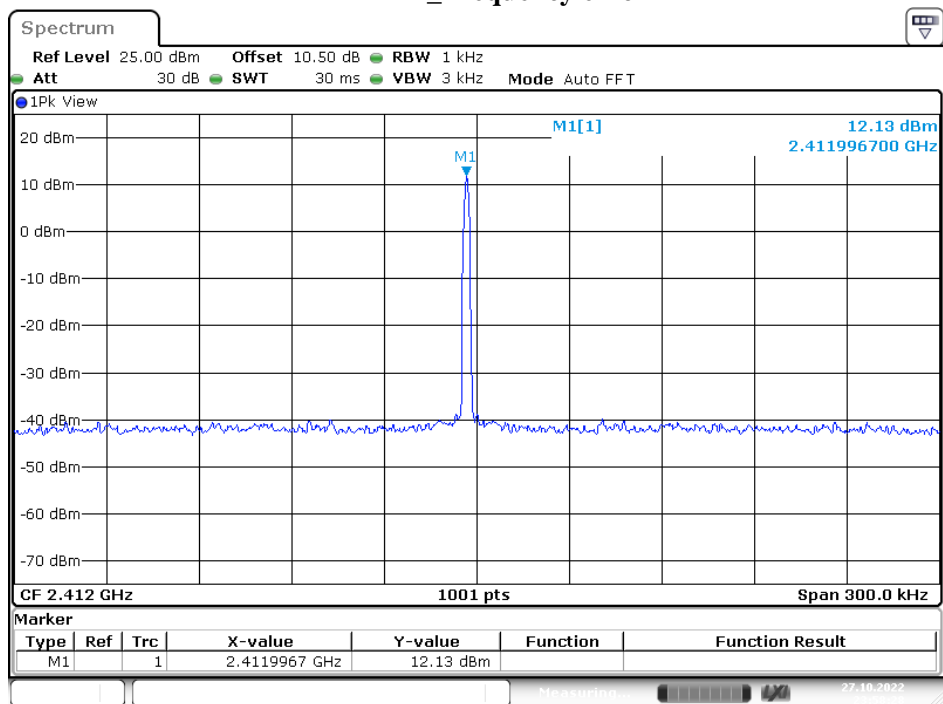


Date: 27.OCT.2022 23:51:59

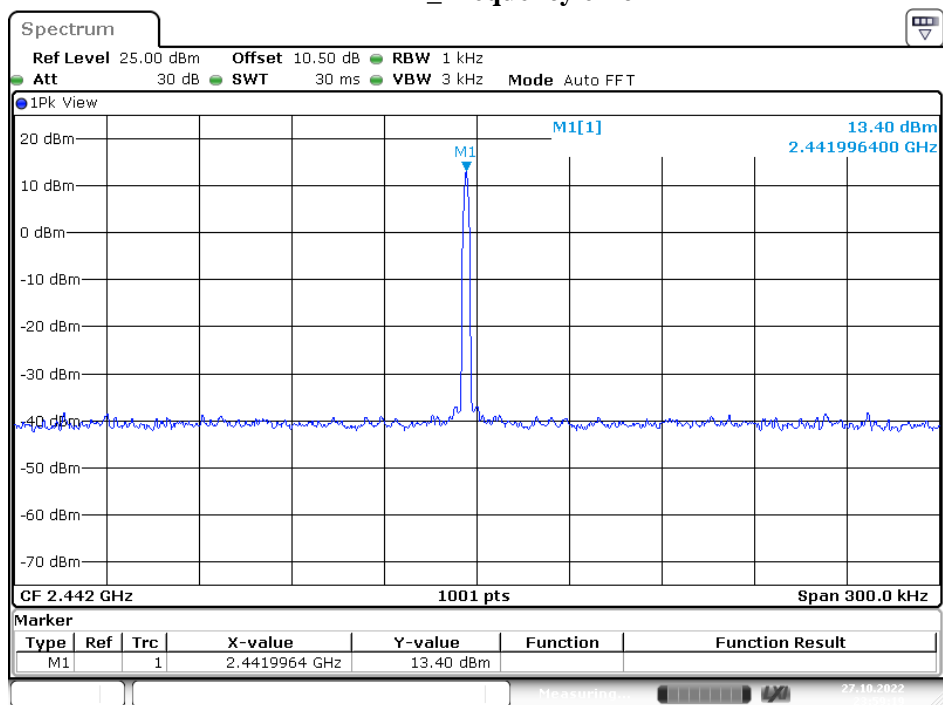
2472MHz_Frequency error



Date: 27.OCT.2022 23:52:44

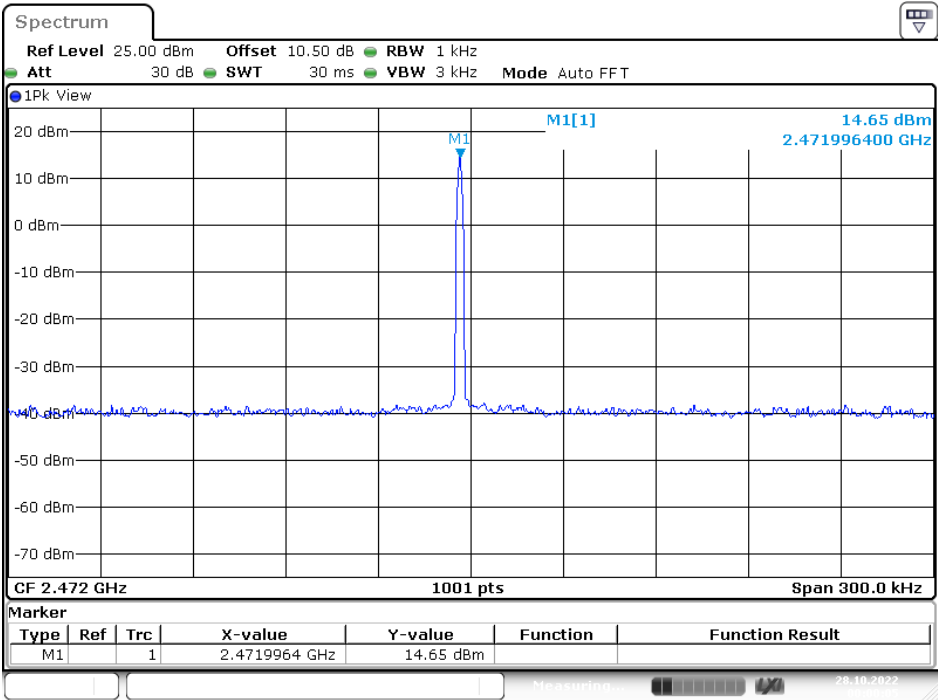
High Voltage**2412MHz_Frequency error**

Date: 27.OCT.2022 23:58:28

2442MHz_Frequency error

Date: 27.OCT.2022 23:59:20

2472MHz_Frequency error



Date: 28.OCT.2022 00:00:06

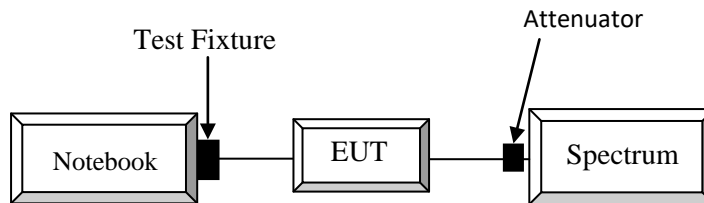
OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

Limit

- Occupied bandwidth: FH \leq 83.5 MHz; DS&OFDM: \leq 26 MHz & \leq 40 MHz, Others \leq 26 MHz
- Spread Bandwidth: \geq 500 kHz (FH, DS), Spread factor $>$ 5.

Test Procedure

1. Setting of SA is following as: RB: 300 kHz / VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor = Spread Bandwidth / modulation rate. The modulation rate: MR = 1.375 for 802.11b.



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	49%
ATM Pressure:	101.0kPa

The testing was performed by Glenn Jiang from 2022-10-25 to 2022-10-28.

Test Result: Compliant

Test Mode: Transmitting

Normal Voltage

Normal Voltage

mode	Frequency	2412MHz	2442 MHz	2472 MHz	Limit
11b	Occupied Bandwidth (MHz)	18.102	18.102	18.142	≤ 26
	Spread Bandwidth(MHz)	13.906	13.946	13.906	≥ 0.5
	Spread Factor	10.11	10.14	10.11	> 5
11g	Occupied Bandwidth (MHz)	16.543	16.543	16.583	≤ 26
11n20	Occupied Bandwidth (MHz)	17.343	17.343	17.343	≤ 26

Low Voltage

mode	Frequency	2412MHz	2442 MHz	2472 MHz	Limit
11b	Occupied Bandwidth (MHz)	18.102	18.142	18.142	≤ 26
	Spread Bandwidth(MHz)	13.866	13.906	13.906	≥ 0.5
	Spread Factor	10.08	10.11	10.11	> 5
11g	Occupied Bandwidth (MHz)	16.543	16.623	16.663	≤ 26
11n20	Occupied Bandwidth (MHz)	17.343	17.343	17.423	≤ 26

High Voltage

mode	Frequency	2412MHz	2442 MHz	2472 MHz	Limit
11b	Occupied Bandwidth (MHz)	18.102	18.102	18.142	≤ 26
	Spread Bandwidth(MHz)	13.906	13.946	13.906	≥ 0.5
	Spread Factor	10.11	10.14	10.11	> 5
11g	Occupied Bandwidth (MHz)	16.543	16.543	16.583	≤ 26
11n20	Occupied Bandwidth (MHz)	17.343	17.343	17.343	≤ 26

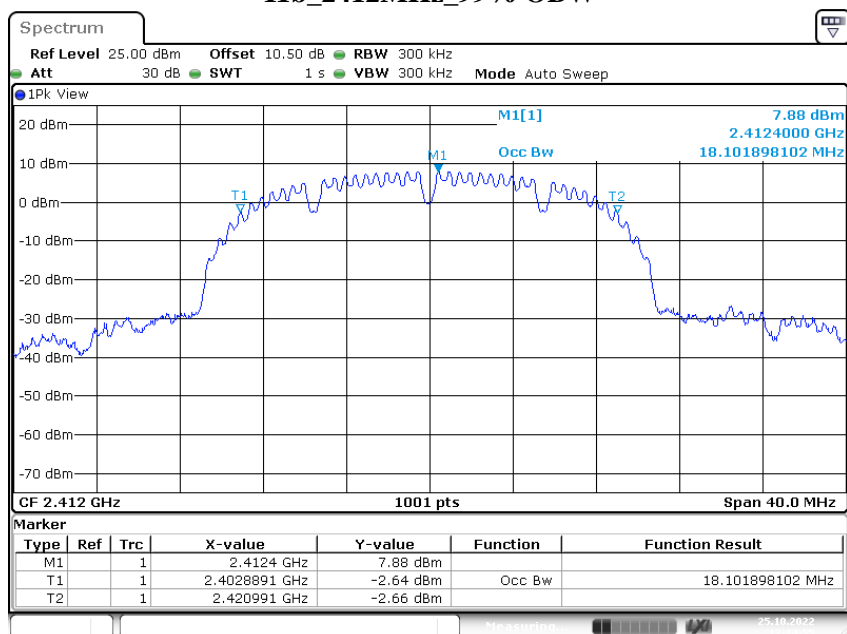
Spread factor=spread bandwidth/modulation rate

Modulation rate: 802.11b=1.375

Please refer to the following plots:

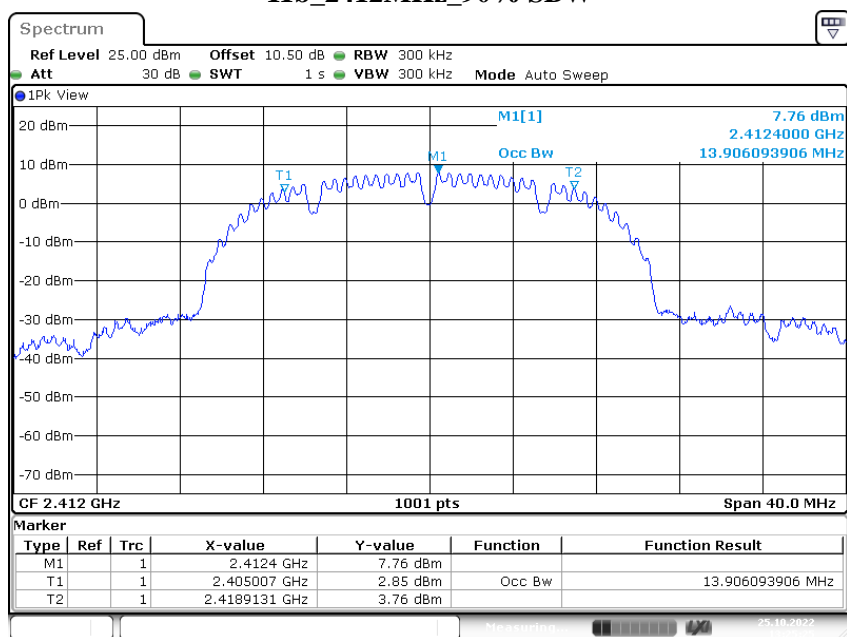
Normal Voltage

11b_2412MHz_99% OBW



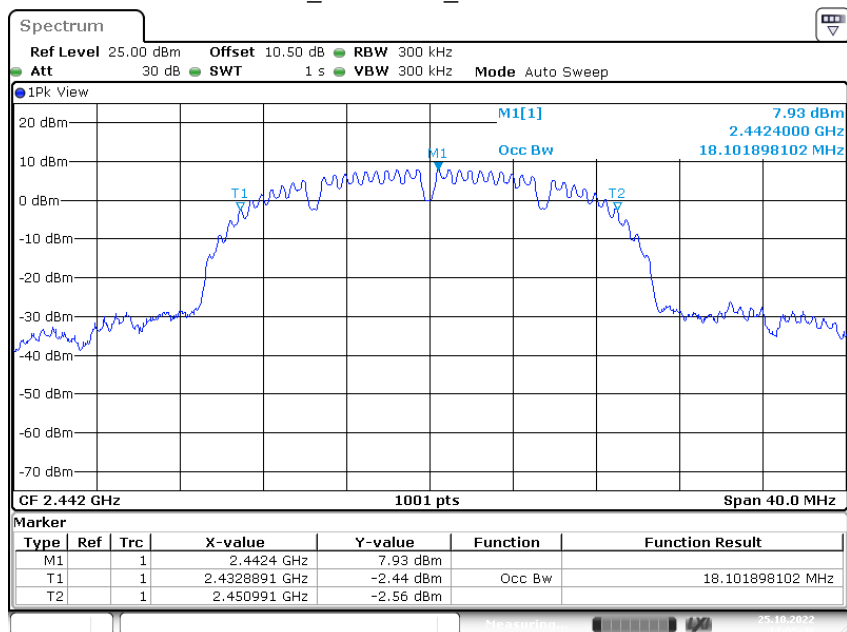
Date: 25.OCT.2022 13:24:55

11b_2412MHz_90% SBW



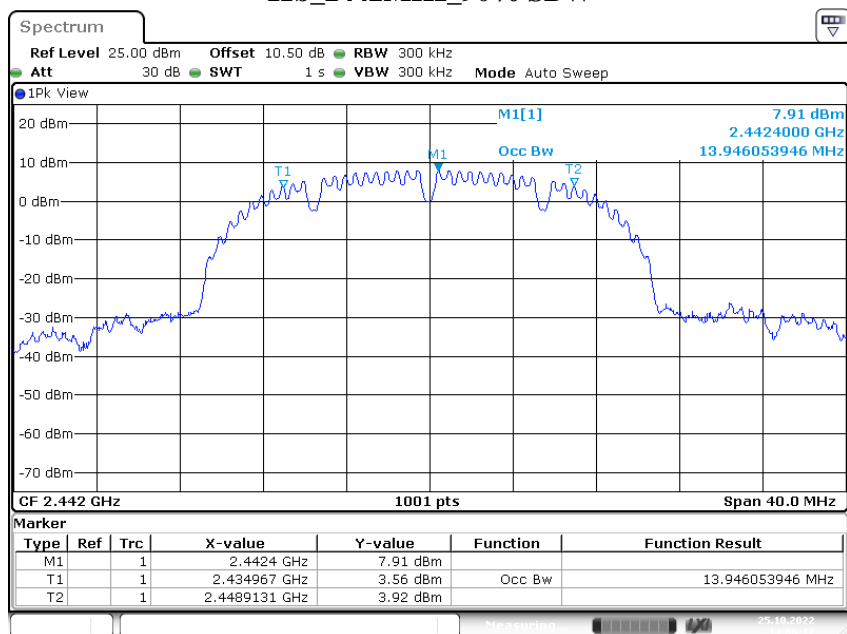
Date: 25.OCT.2022 13:25:26

11b_2442MHz_99% OBW



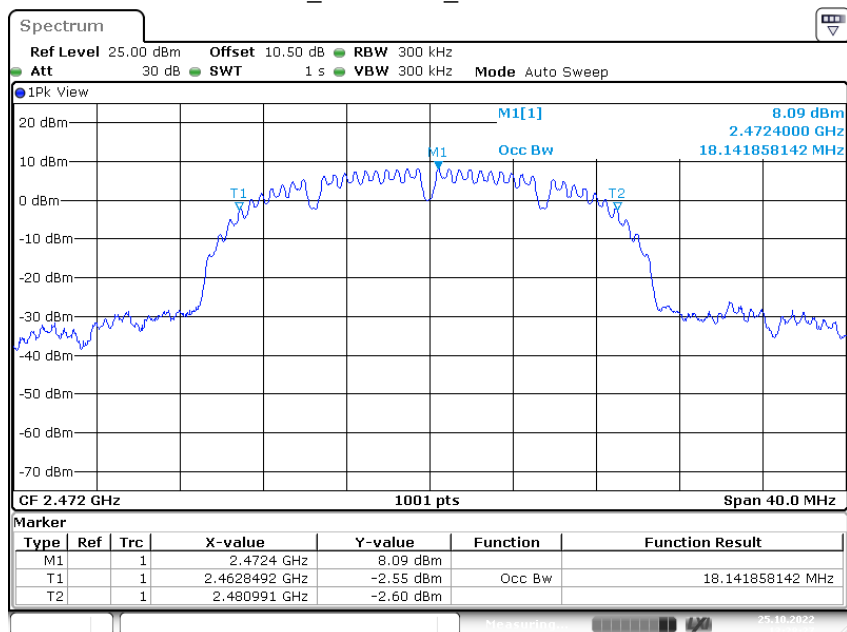
Date: 25.OCT.2022 14:05:46

11b_2442MHz_90% SBW



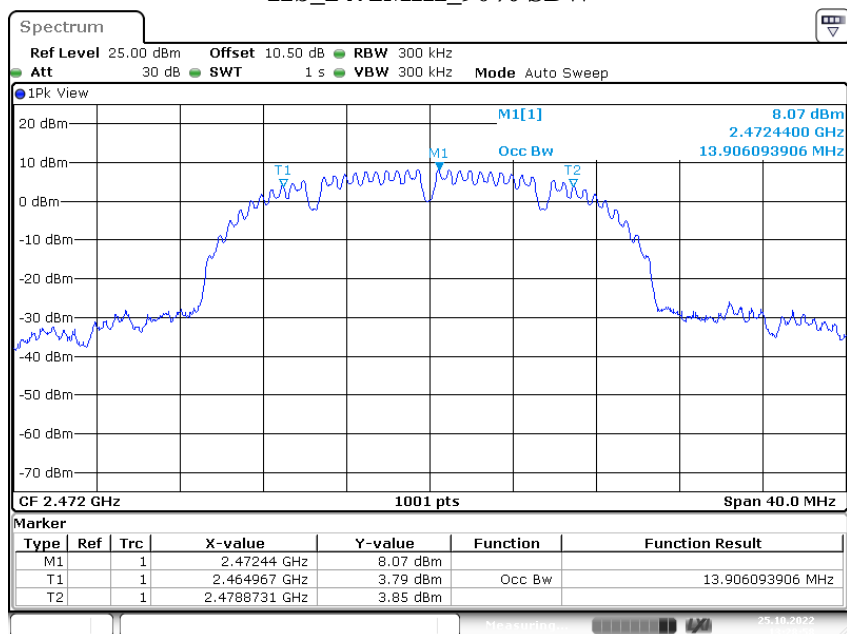
Date: 25.OCT.2022 14:06:17

11b_2472MHz_99% OBW



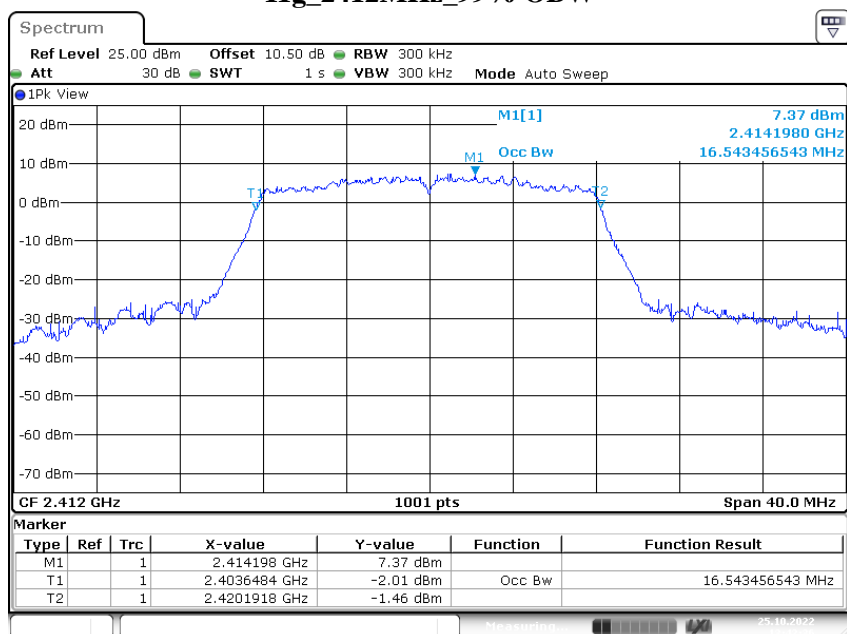
Date: 25.OCT.2022 13:28:28

11b_2472MHz_90% SBW



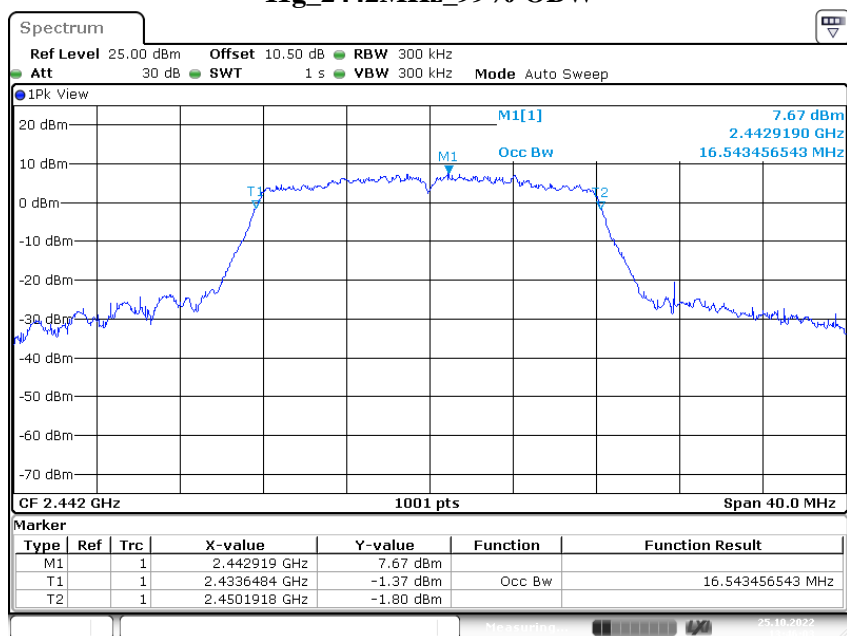
Date: 25.OCT.2022 13:28:58

11g_2412MHz_99% OBW



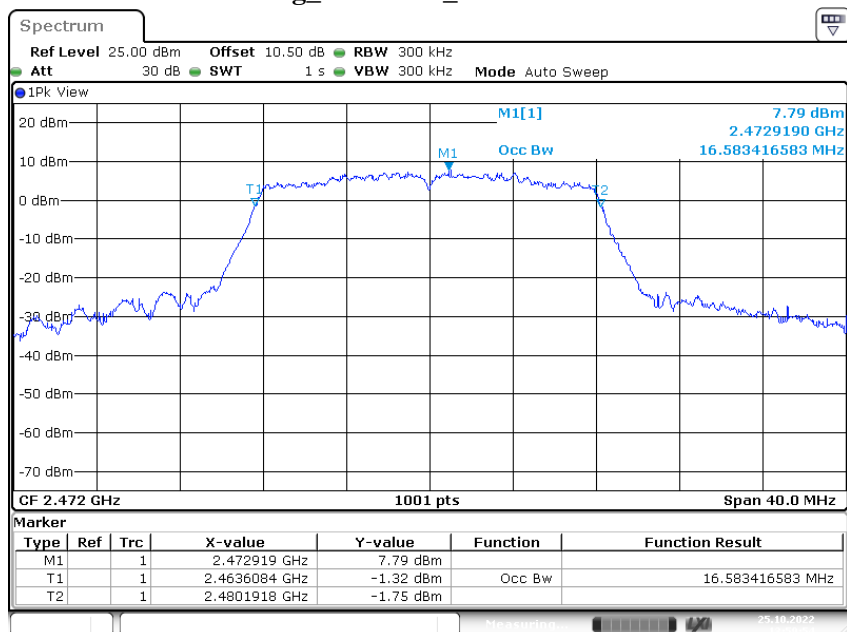
Date: 25.OCT.2022 13:42:37

11g_2442MHz_99% OBW



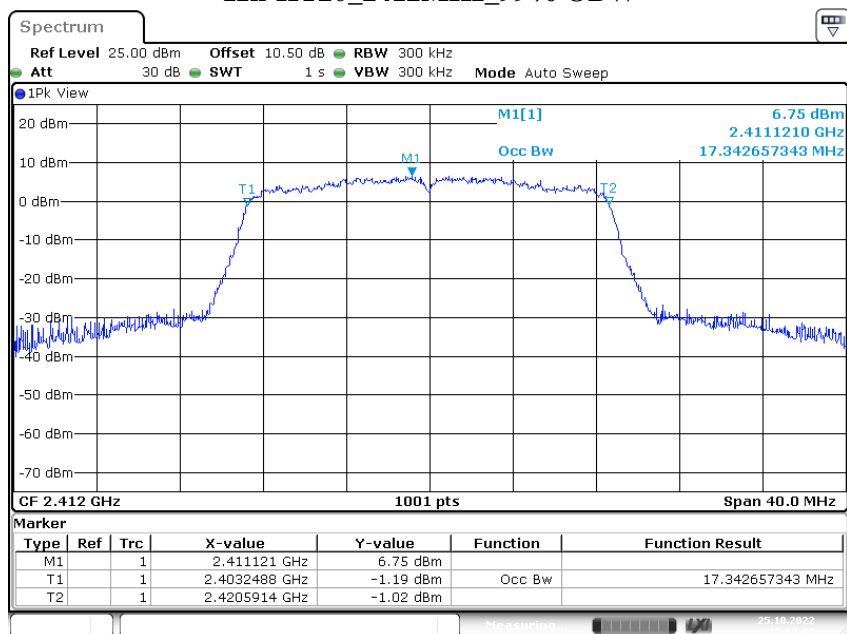
Date: 25.OCT.2022 13:46:03

11g_2472MHz_99% OBW



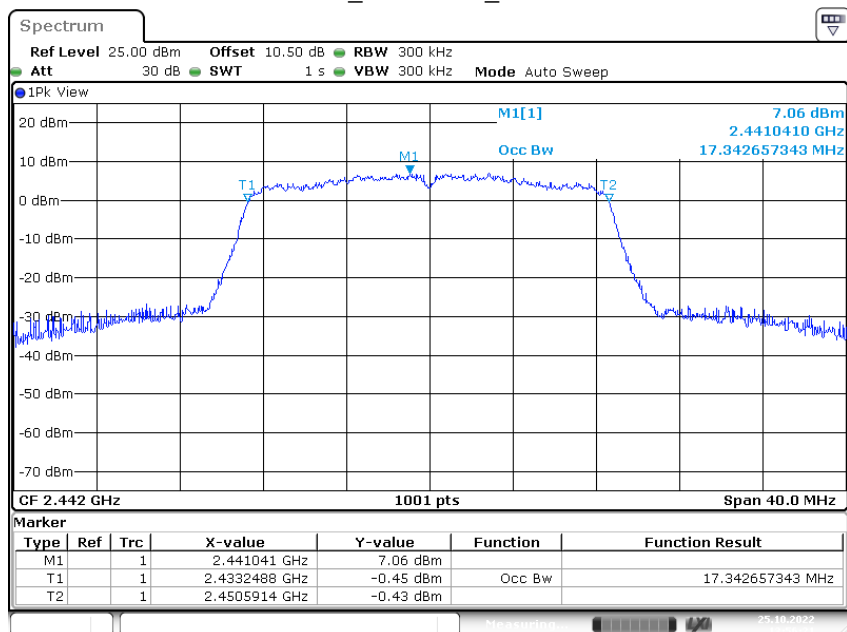
Date: 25.OCT.2022 13:59:54

11n-HT20_2412MHz_99% OBW



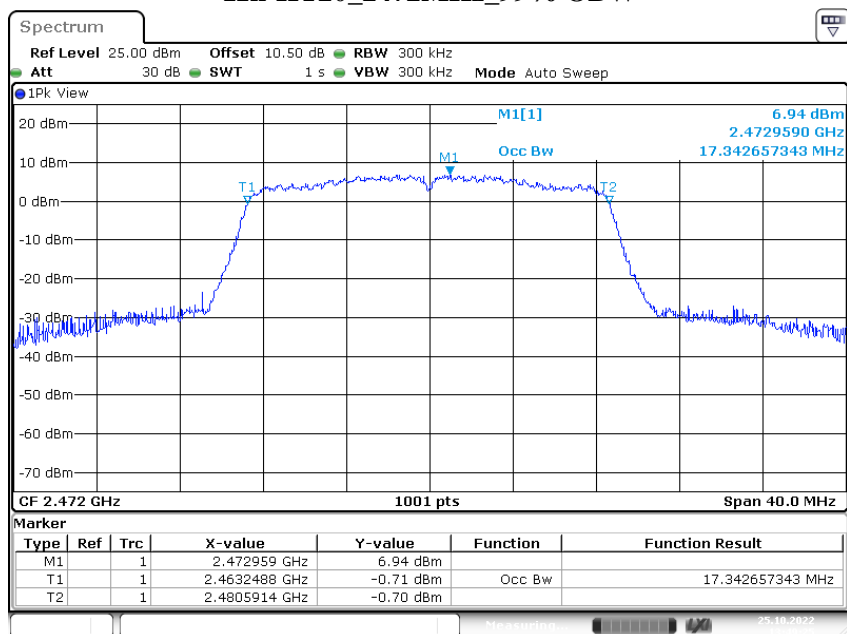
Date: 25.OCT.2022 13:53:07

11n-HT20_2442MHz_99% OBW



Date: 25.OCT.2022 13:56:22

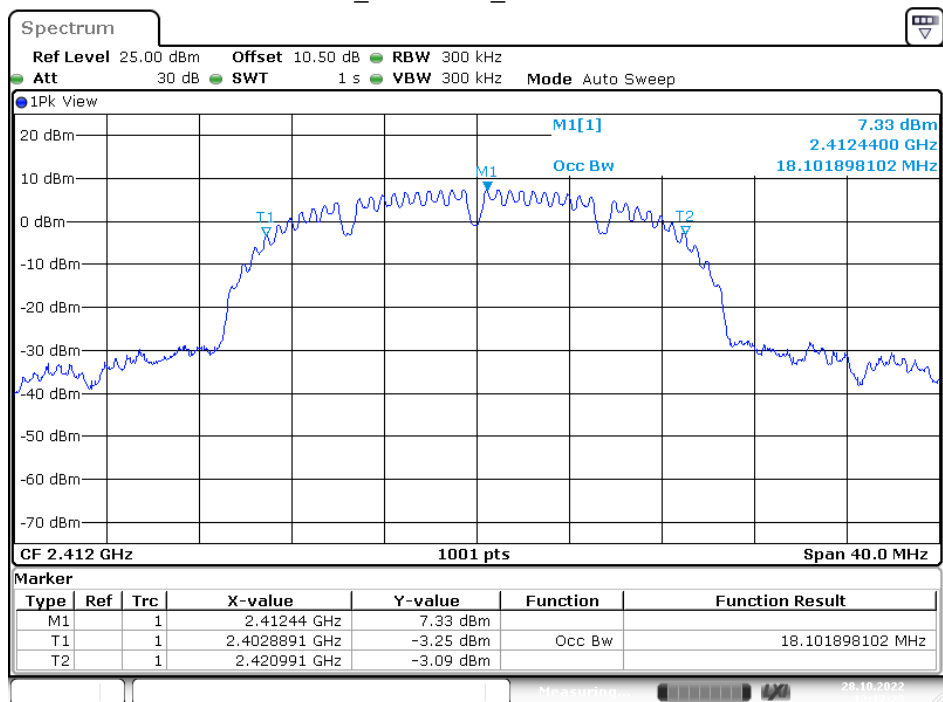
11n-HT20_2472MHz_99% OBW



Date: 25.OCT.2022 13:49:25

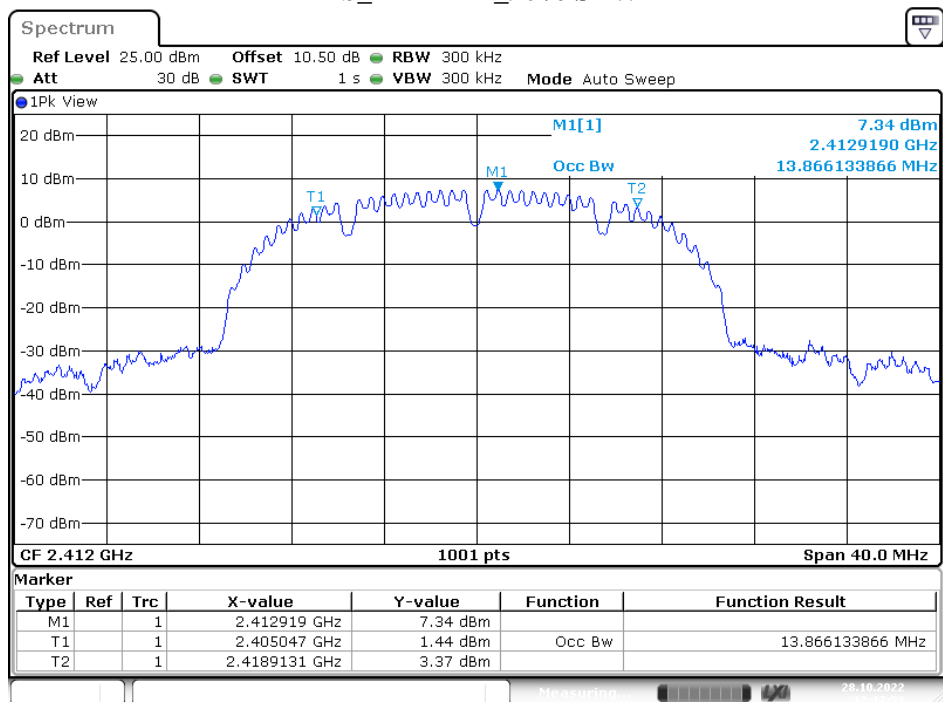
Low Voltage

11b_2412MHz_99% OBW



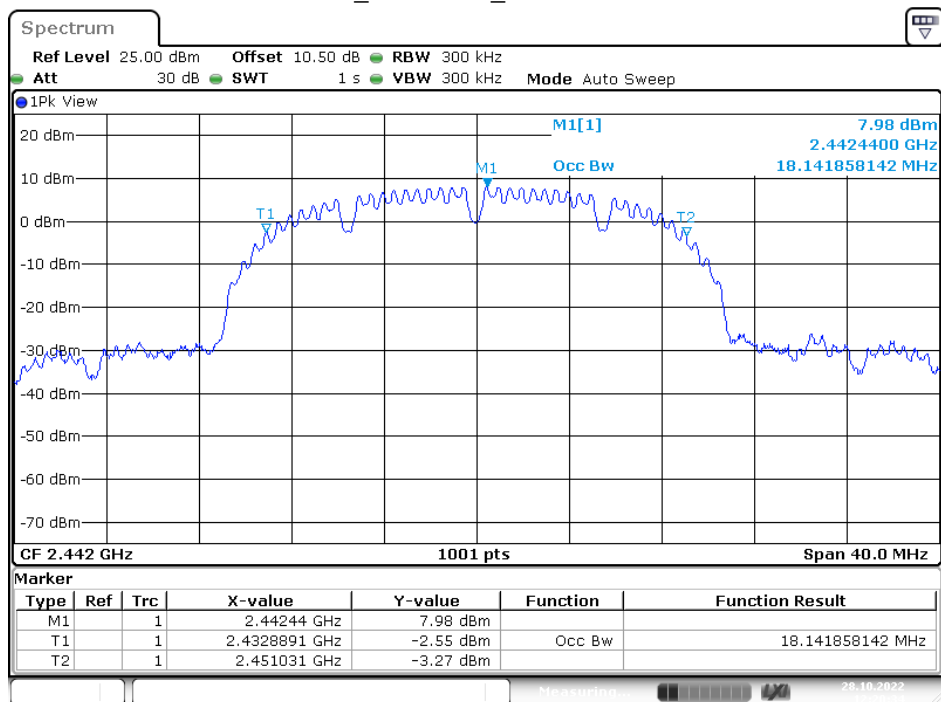
Date: 28.OCT.2022 12:17:23

11b_2412MHz_90% SBW



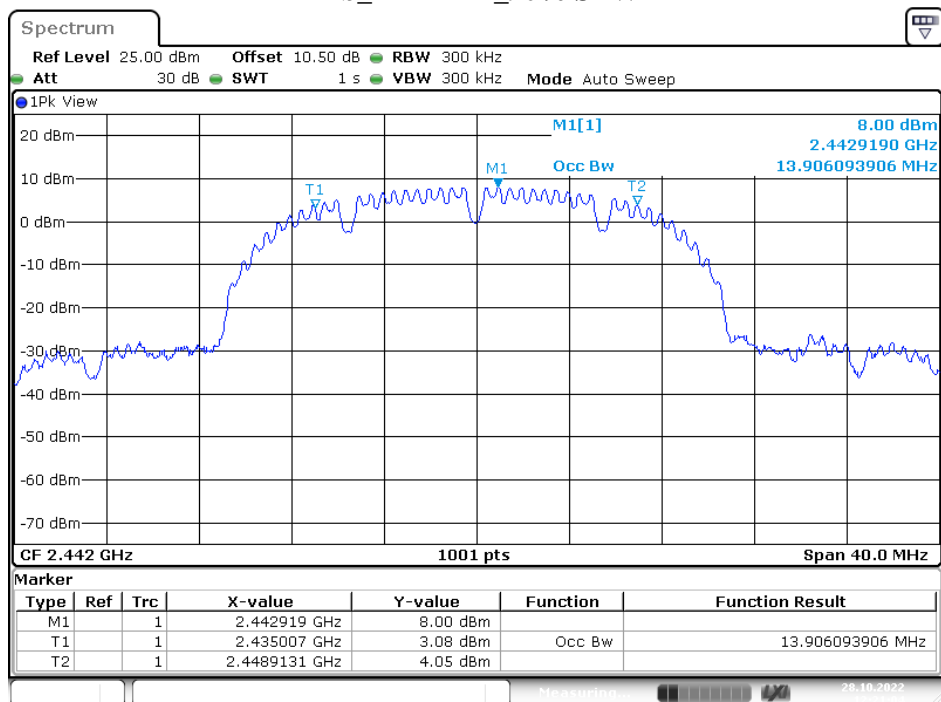
Date: 28.OCT.2022 12:17:53

11b_2442MHz_99% OBW



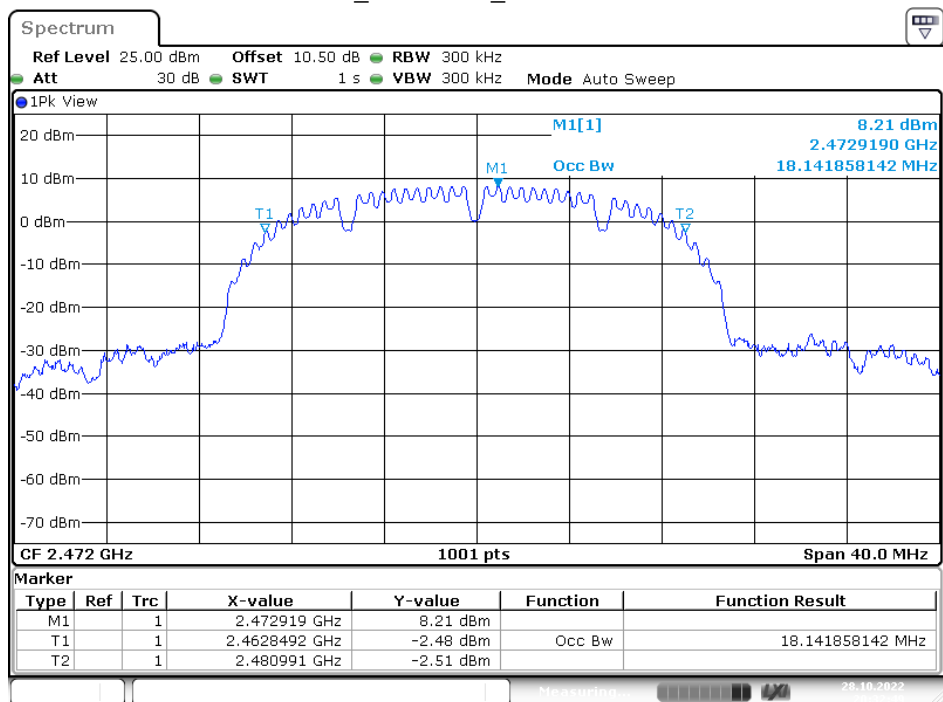
Date: 28.OCT.2022 12:20:34

11b_2442MHz_90% SBW



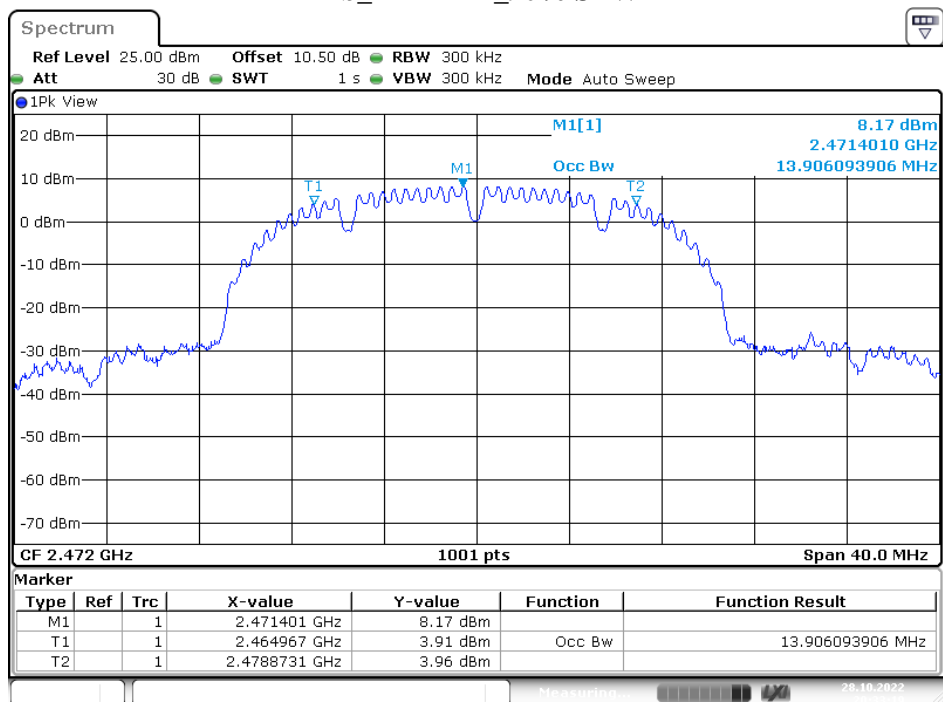
Date: 28.OCT.2022 12:21:04

11b_2472MHz_99% OBW



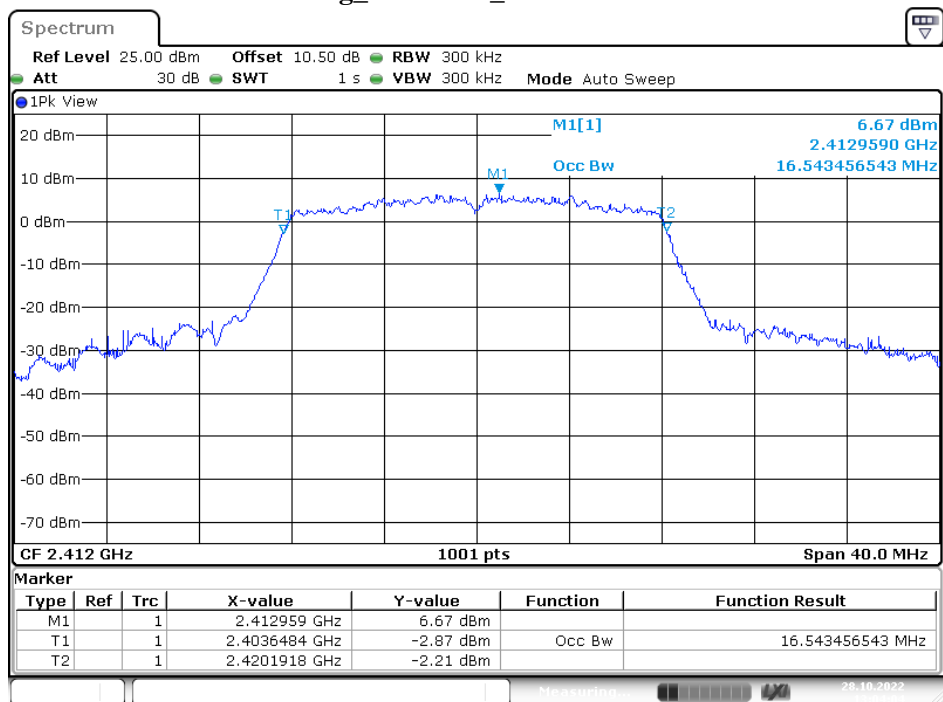
Date: 28.OCT.2022 20:32:49

11b_2472MHz_90% SBW



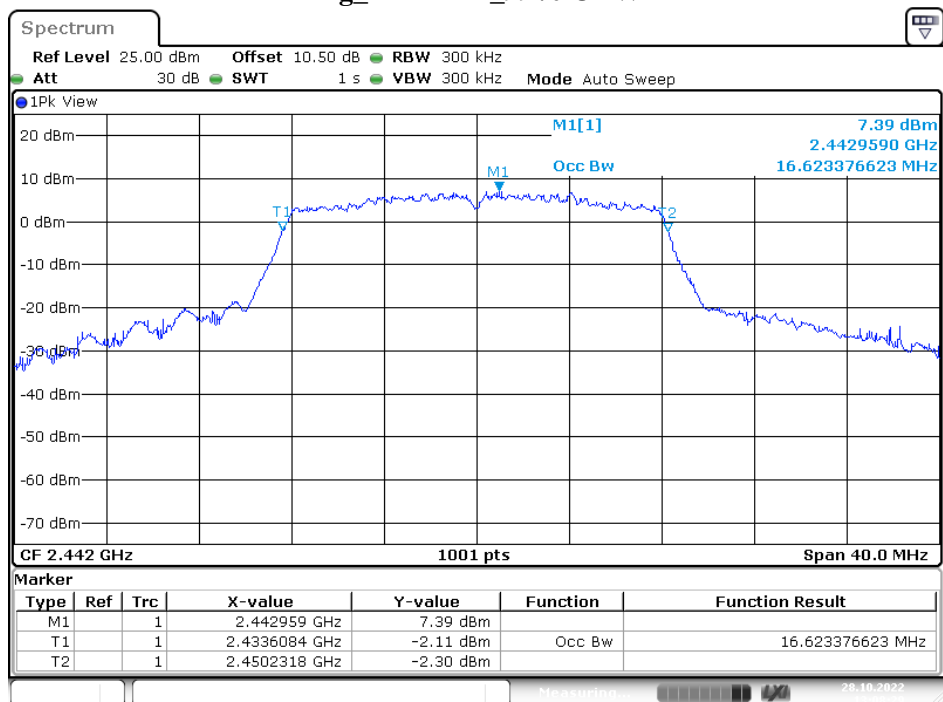
Date: 28.OCT.2022 20:33:20

11g_2412MHz_99% OBW



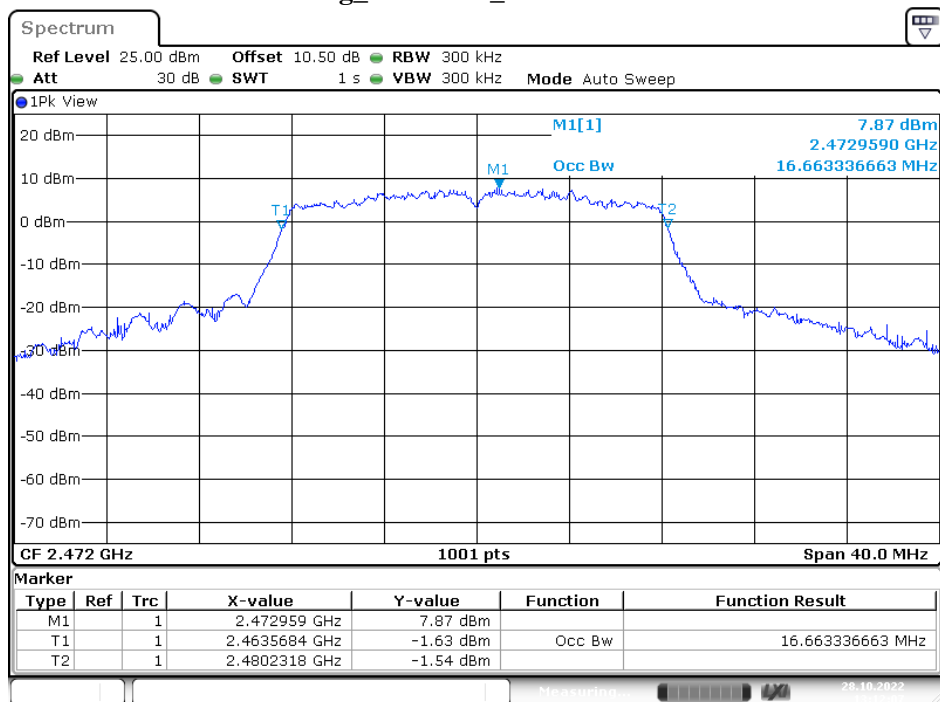
Date: 28.OCT.2022 13:04:04

11g_2442MHz_99% OBW



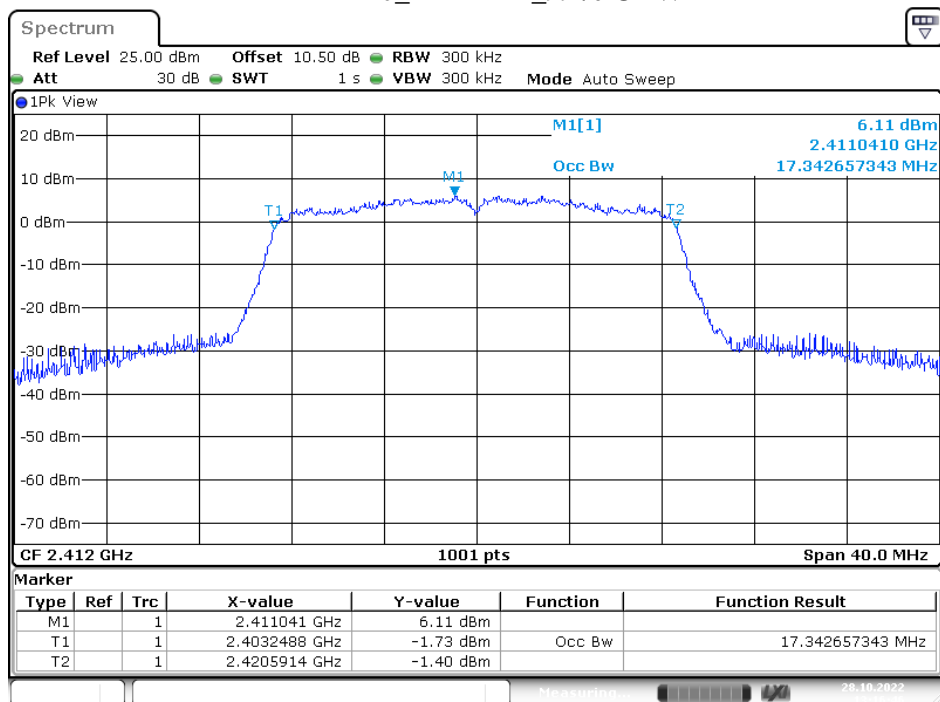
Date: 28.OCT.2022 13:08:29

11g_2472MHz_99% OBW



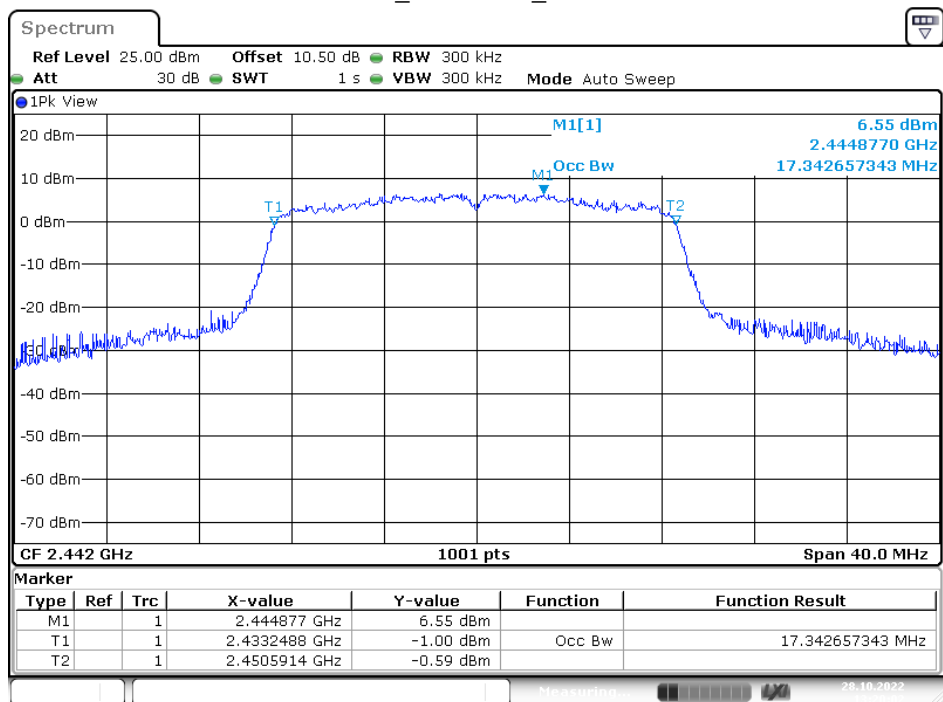
Date: 28.OCT.2022 13:12:08

11n-HT20_2412MHz_99% OBW



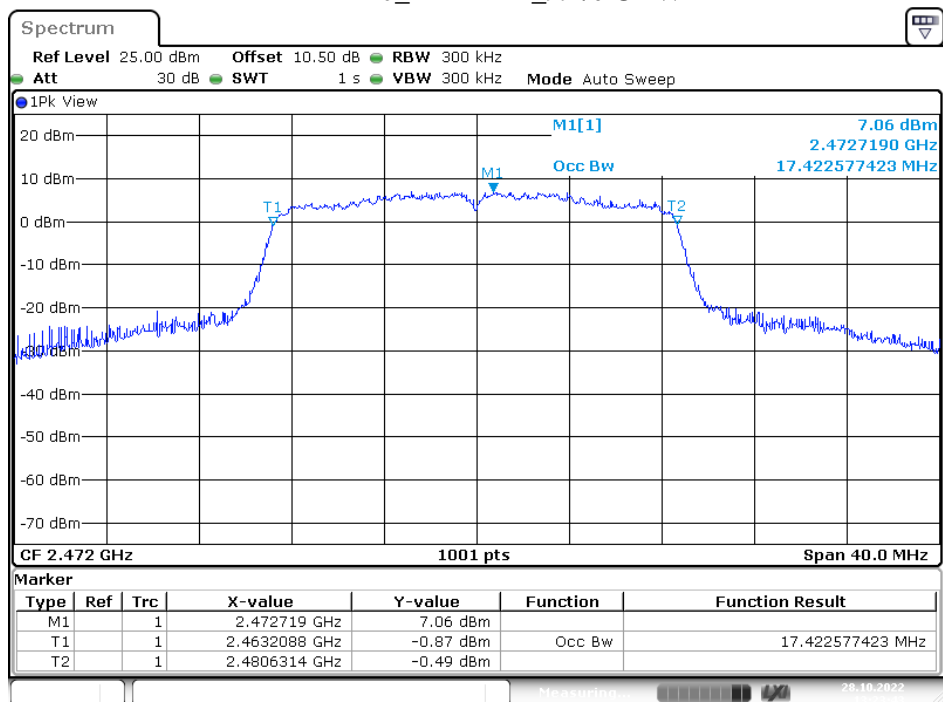
Date: 28.OCT.2022 13:16:46

11n-HT20_2442MHz_99% OBW



Date: 28.OCT.2022 13:20:02

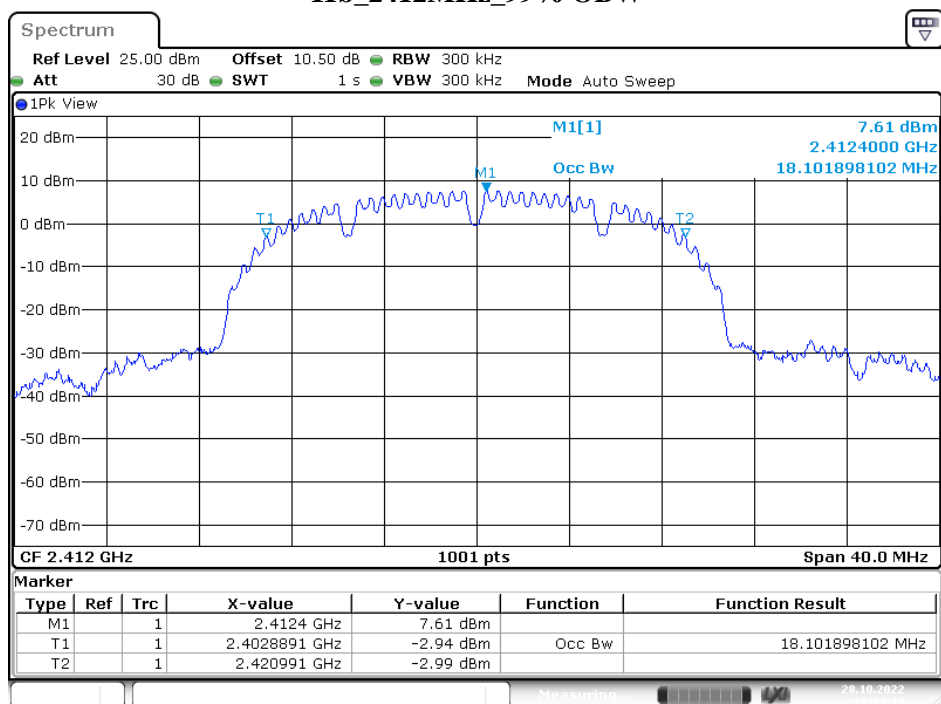
11n-HT20_2472MHz_99% OBW



Date: 28.OCT.2022 13:23:44

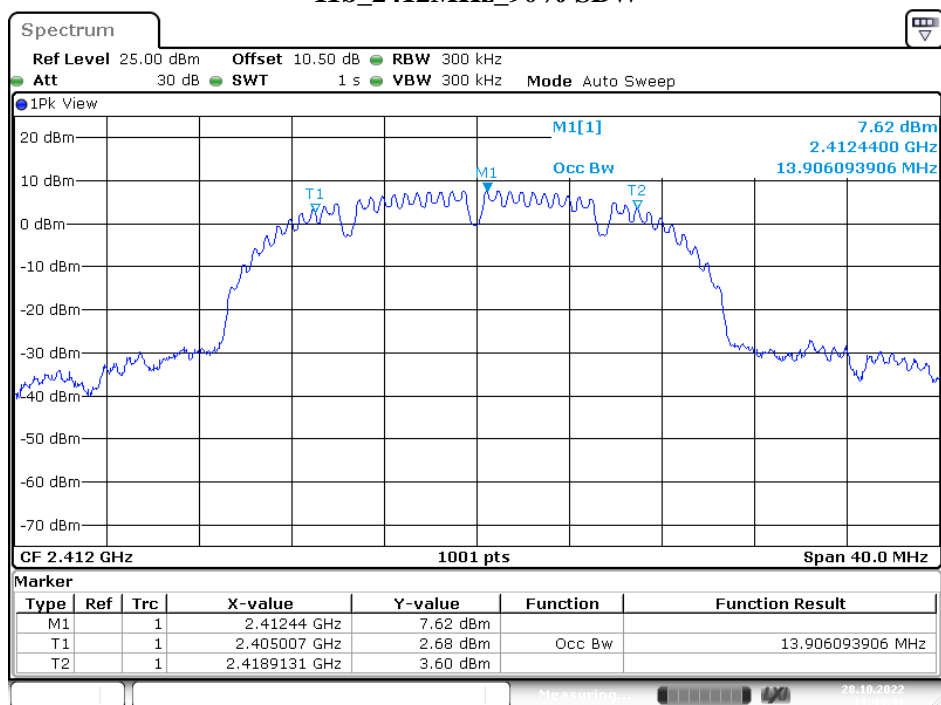
High Voltage

11b_2412MHz_99% OBW



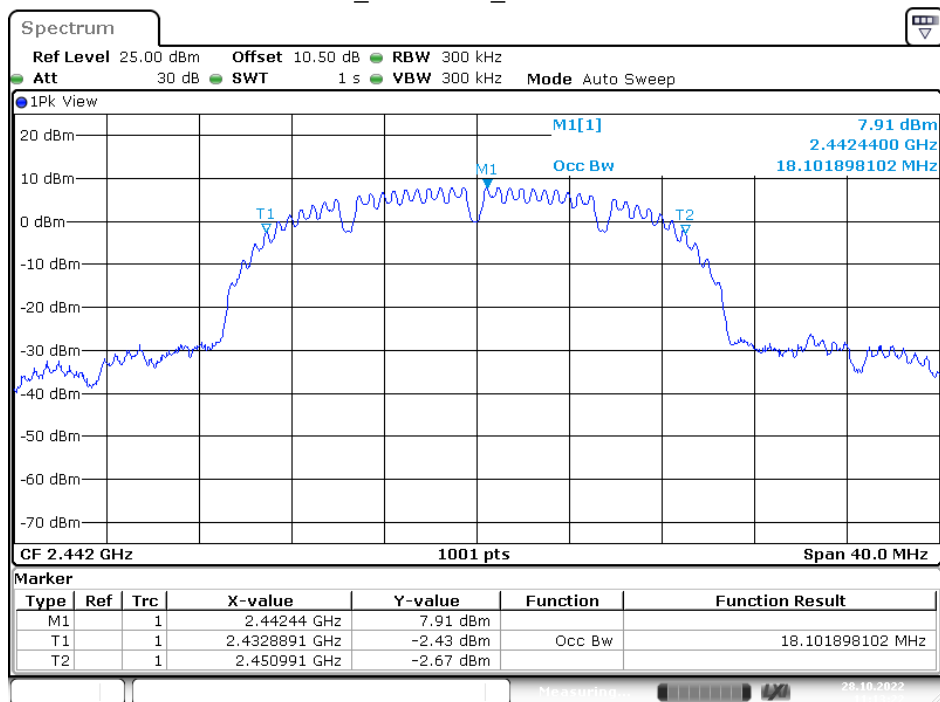
Date: 28.OCT.2022 11:44:10

11b_2412MHz_90% SBW



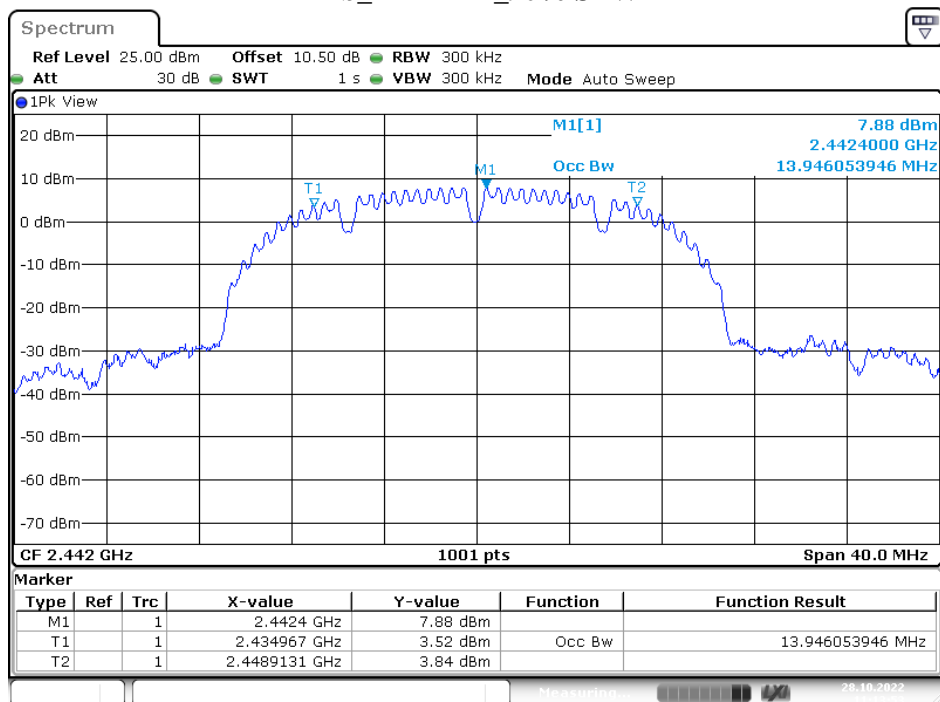
Date: 28.OCT.2022 11:44:41

11b_2442MHz_99% OBW



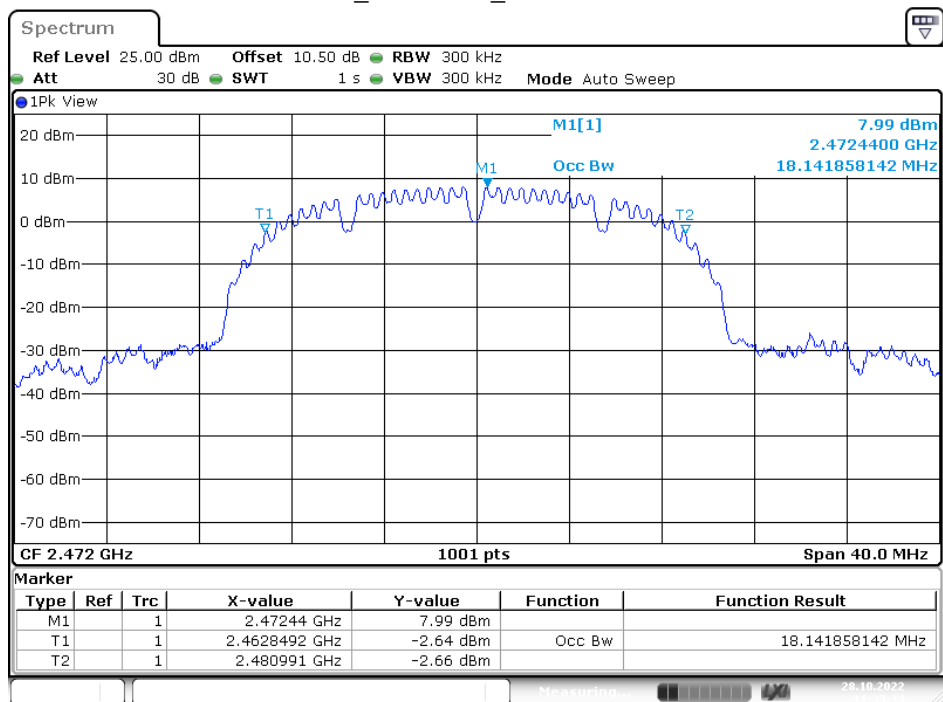
Date: 28.OCT.2022 11:13:22

11b_2442MHz_90% SBW



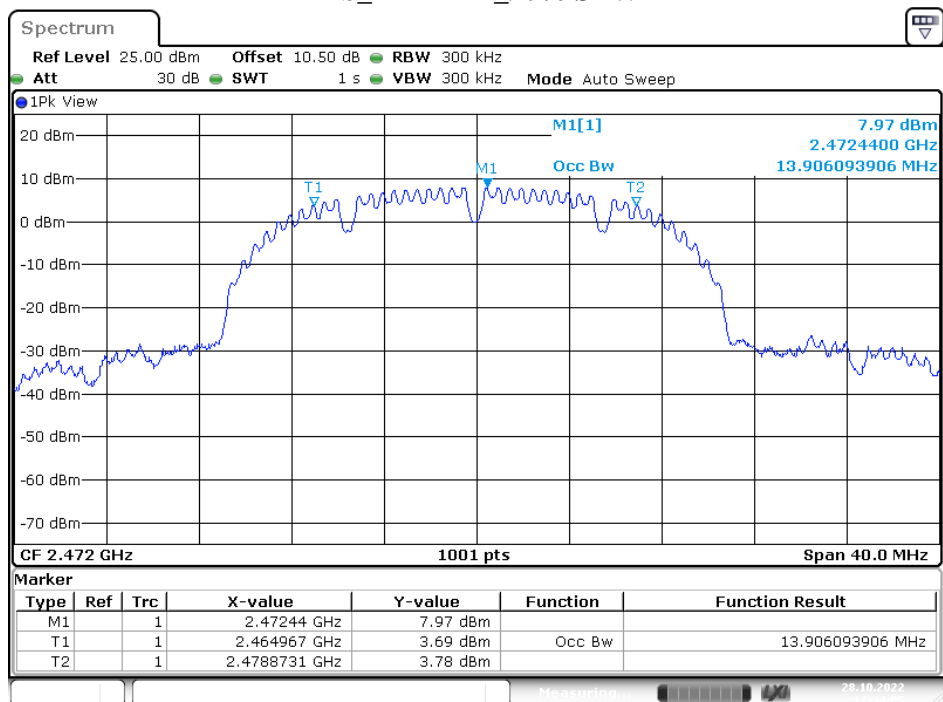
Date: 28.OCT.2022 11:13:53

11b_2472MHz_99% OBW



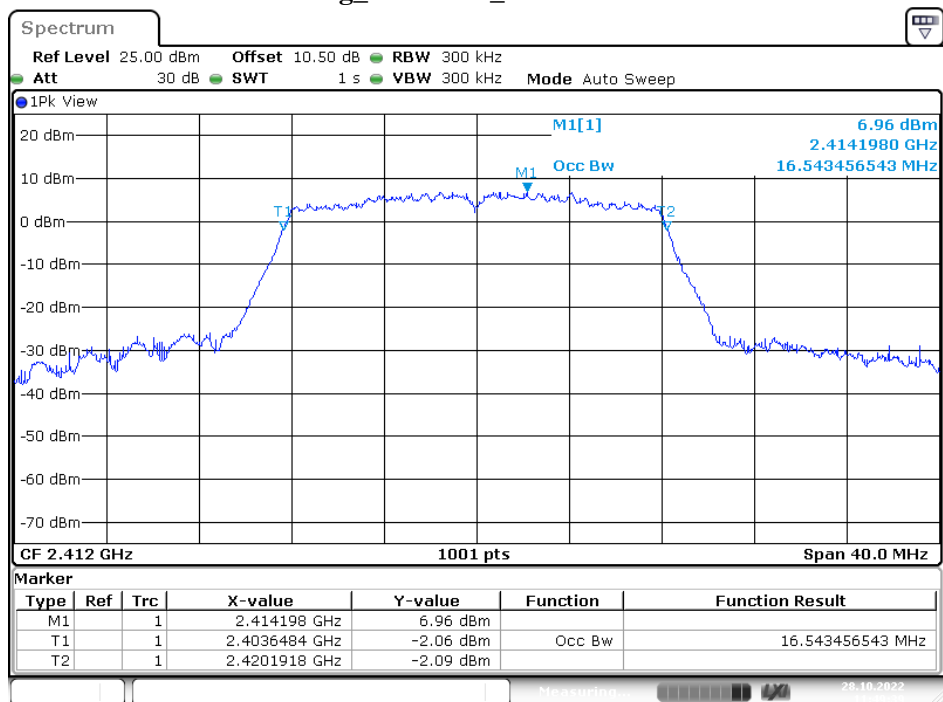
Date: 28.OCT.2022 11:33:35

11b_2472MHz_90% SBW



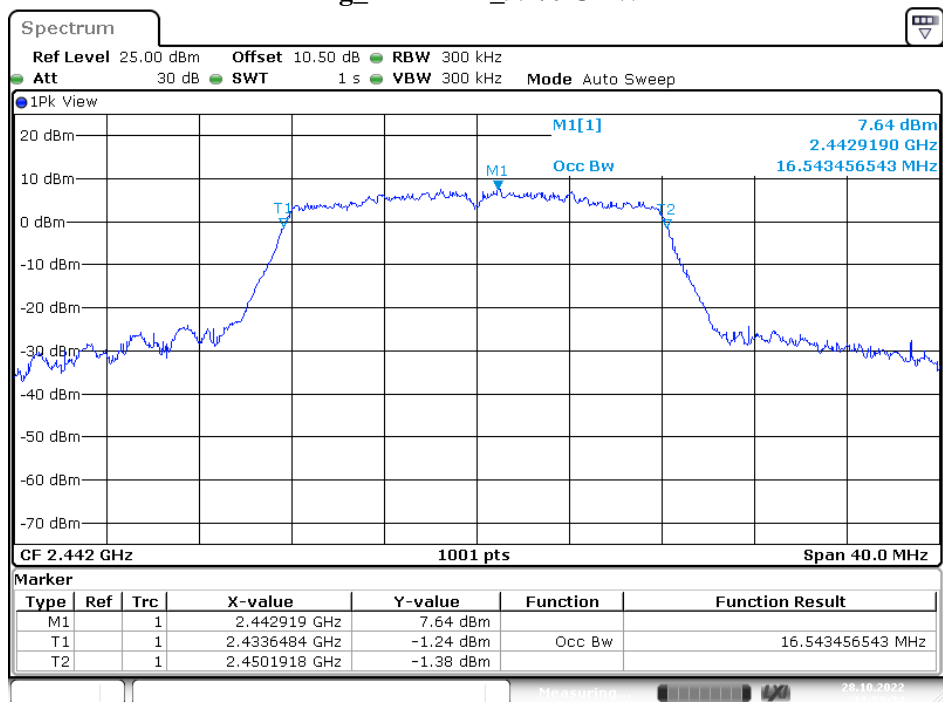
Date: 28.OCT.2022 11:34:05

11g_2412MHz_99% OBW



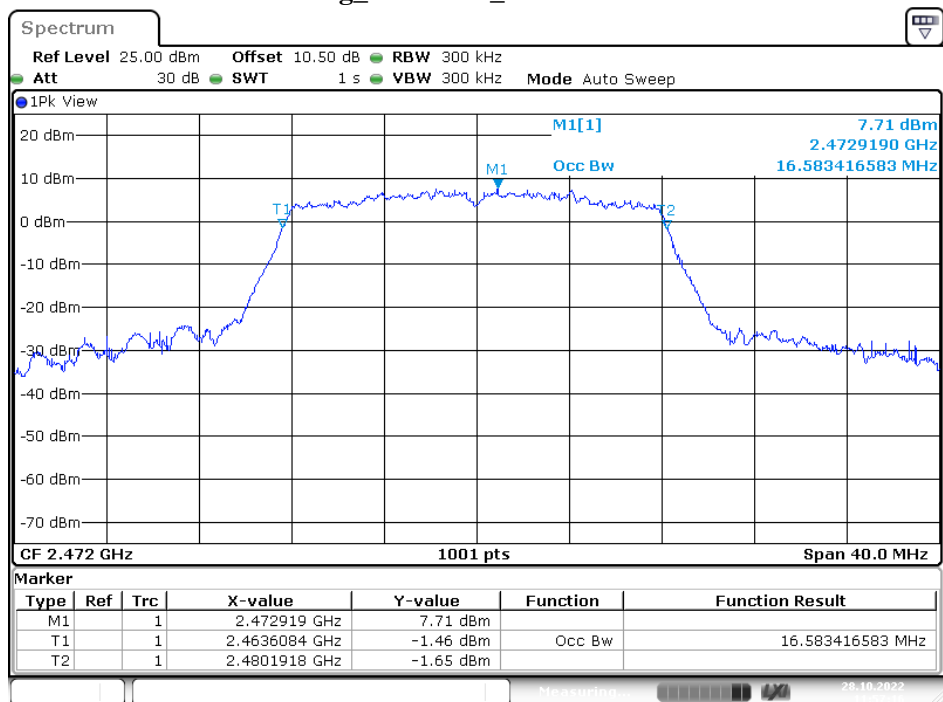
Date: 28.OCT.2022 11:49:40

11g_2442MHz_99% OBW



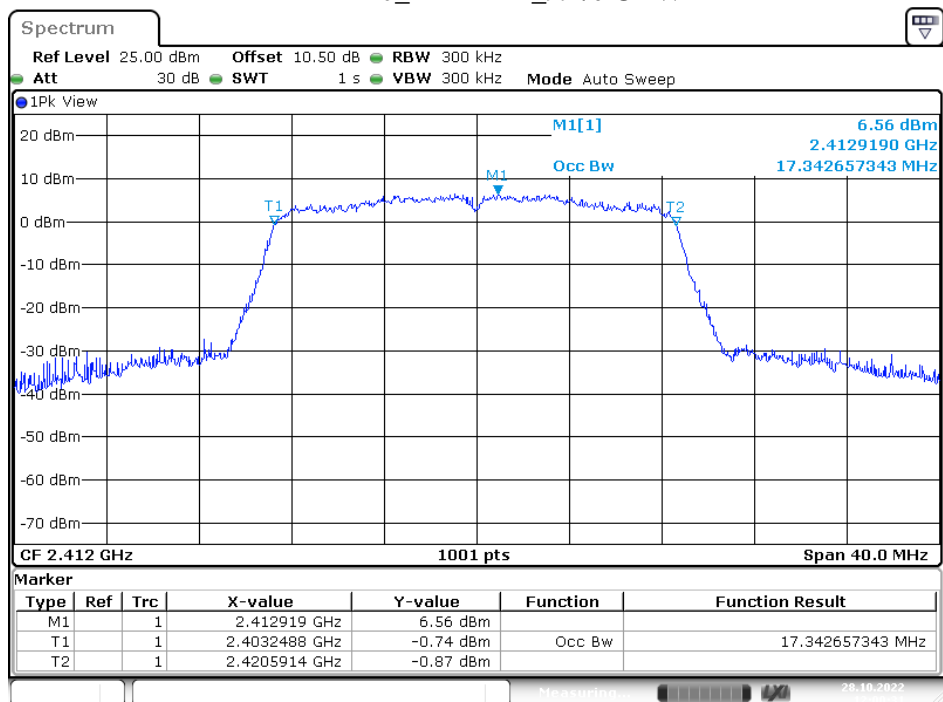
Date: 28.OCT.2022 11:53:34

11g_2472MHz_99% OBW



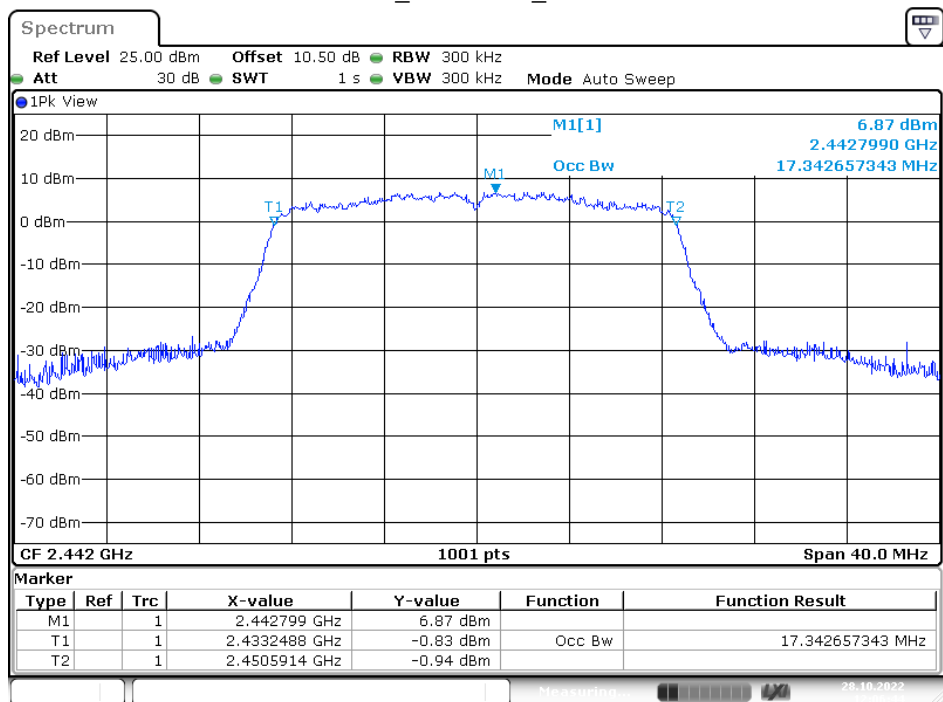
Date: 28.OCT.2022 11:57:16

11n-HT20_2412MHz_99% OBW



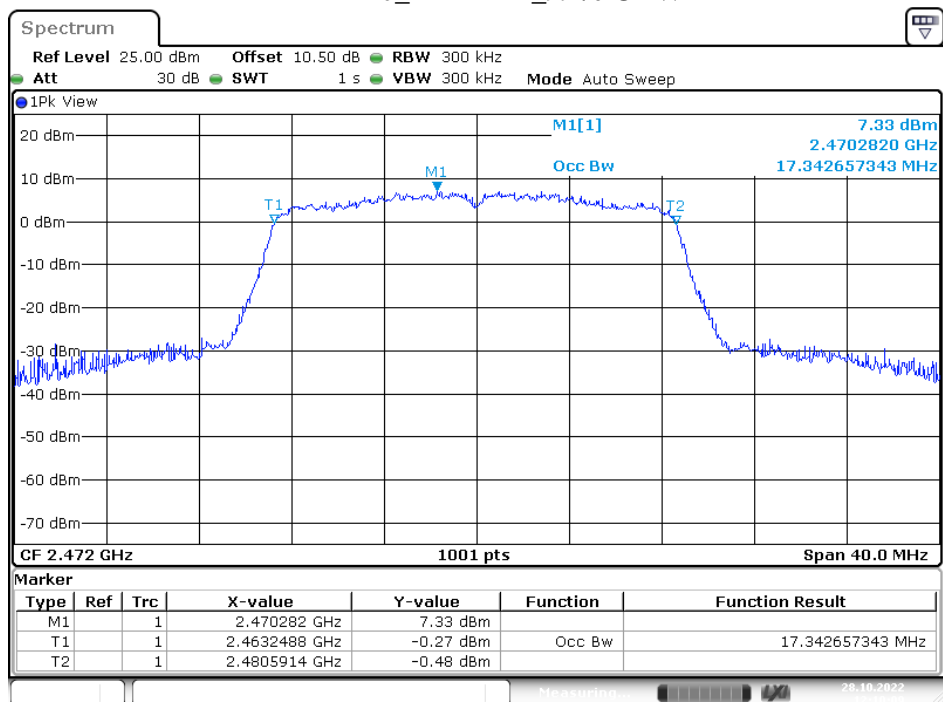
Date: 28.OCT.2022 12:00:32

11n-HT20_2442MHz_99% OBW



Date: 28.OCT.2022 12:06:44

11n-HT20_2472MHz_99% OBW



Date: 28.OCT.2022 12:10:10

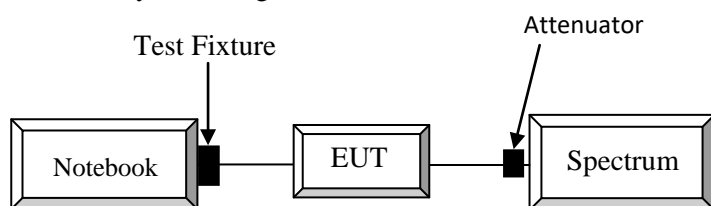
TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

- $f < 2387 \text{ MHz}, f > 2496.5 \text{ MHz}: \leq 2.5 \mu\text{W/MHz}$
- $2387 \text{ MHz} \leq f \leq 2400 \text{ MHz}; 2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}: \leq 25 \mu\text{W/MHz}$

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be in continuous transmitting mode.

Spectrum Analyzer Conditions

- Span: Measuring Frequency Range
- RBW: 1MHz (frequency range; 1GHz over), 100kHz (frequency range; 30MHz to 1GHz)
- VBW: Same as RBW (1MHz or 100kHz)
- Sweep time: Auto (Minimum time to ensure measurement accuracy.)
- Data points : 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak

If the measured value is under the technical standard value, do not need to measure more detail.

Test Data

Environmental Conditions

Temperature:	25°C
Relative Humidity:	50%
ATM Pressure:	101.0kPa

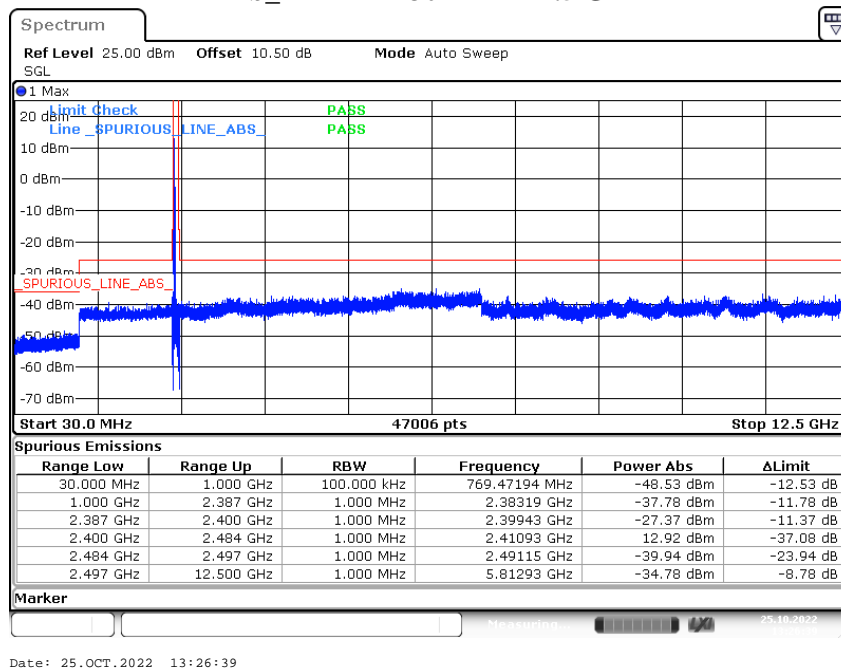
The testing was performed by Glenn.jiang from 2022-10-25 to 2022-11-14

Test Mode: Transmitting,

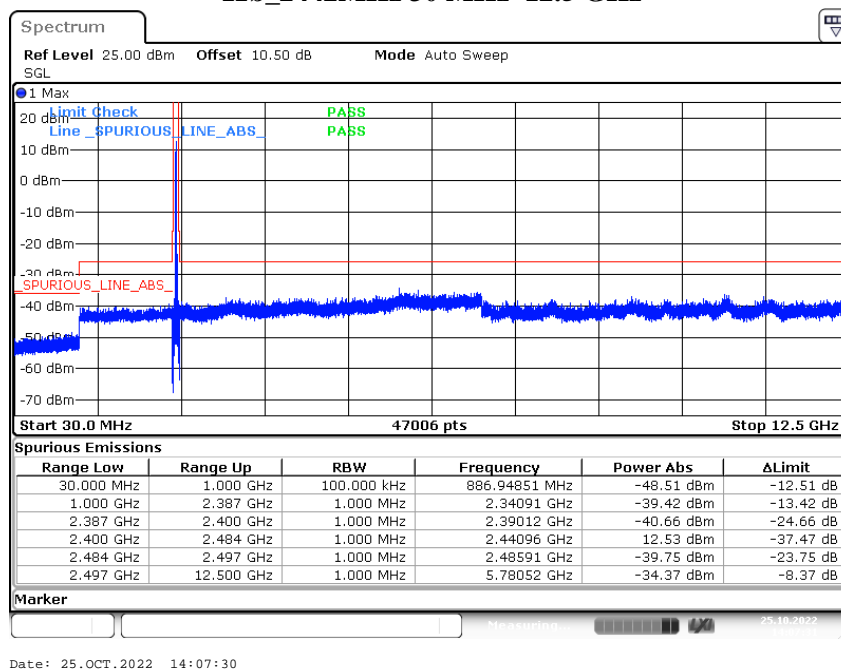
Test Result: Compliant, Please refer to the below plots:

Normal Voltage:

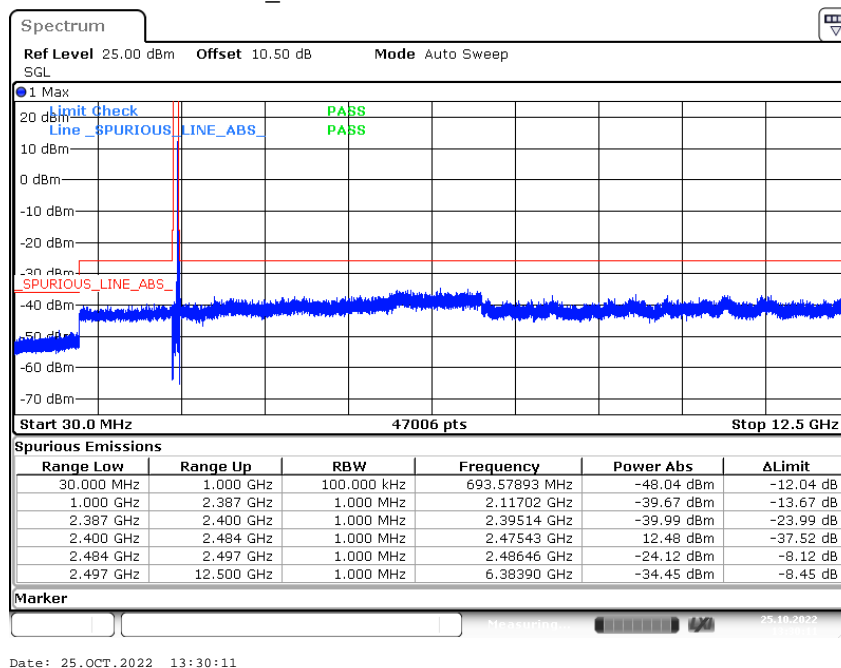
11b_2412MHz 30 MHz~12.5 GHz



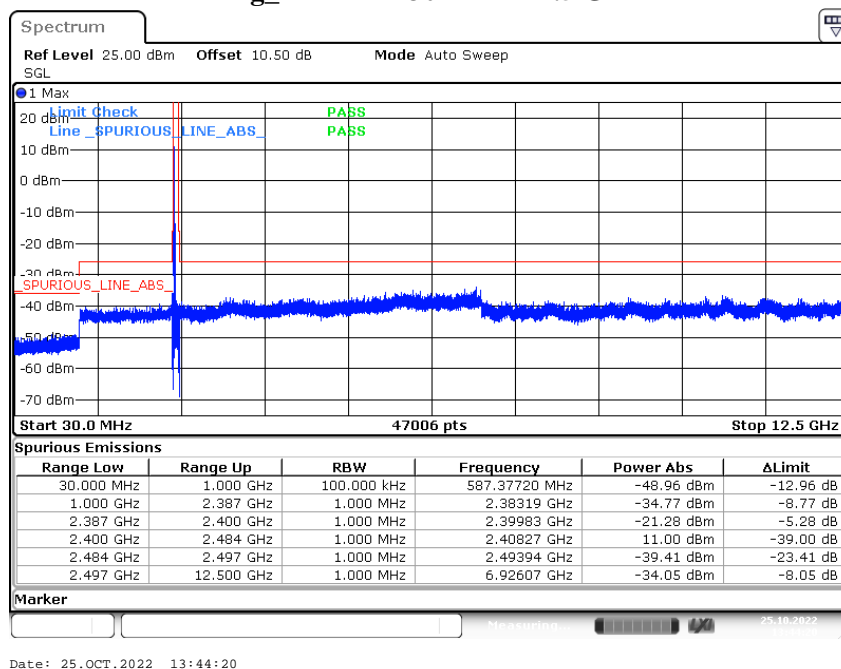
11b_2442MHz 30 MHz~12.5 GHz



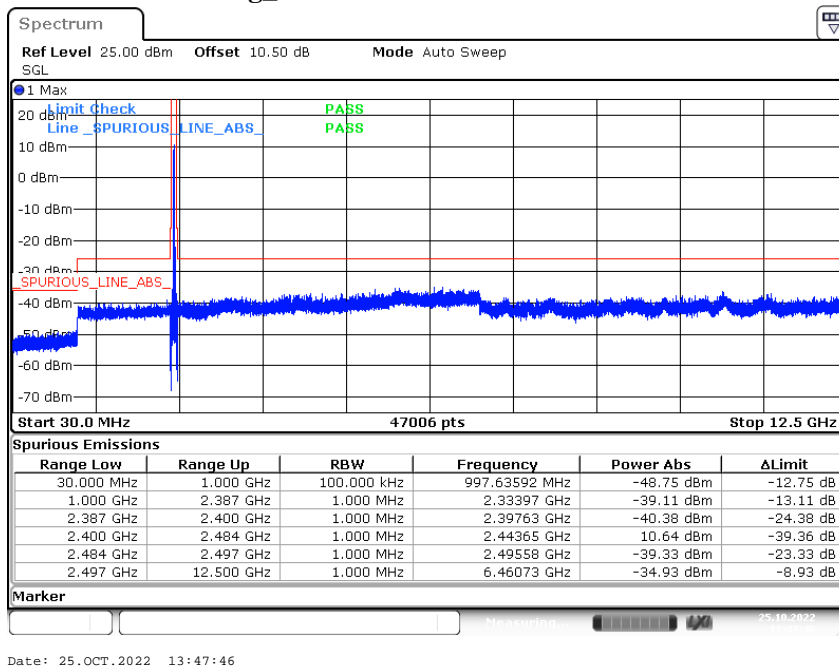
11b_2472MHz 30 MHz~12.5 GHz



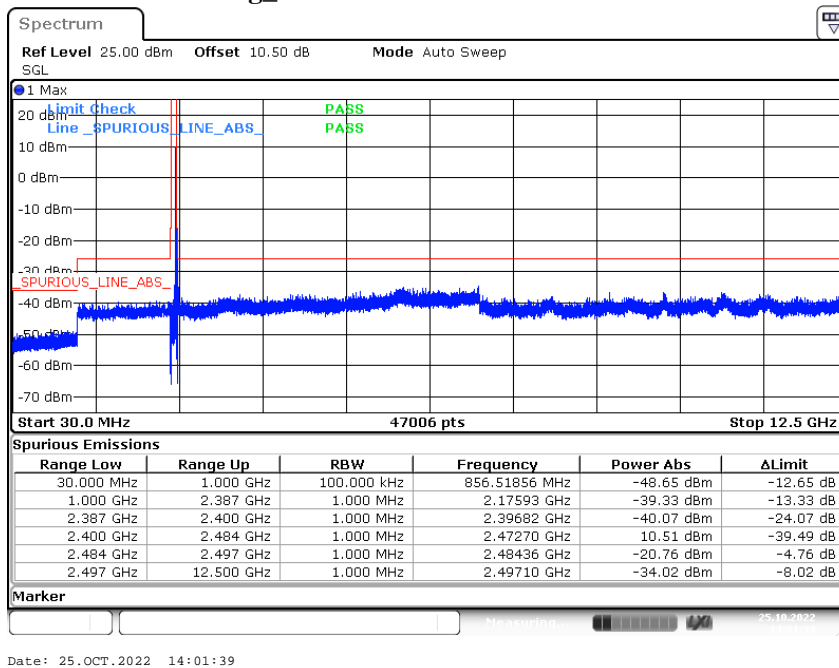
11g_2412MHz 30 MHz~12.5 GHz



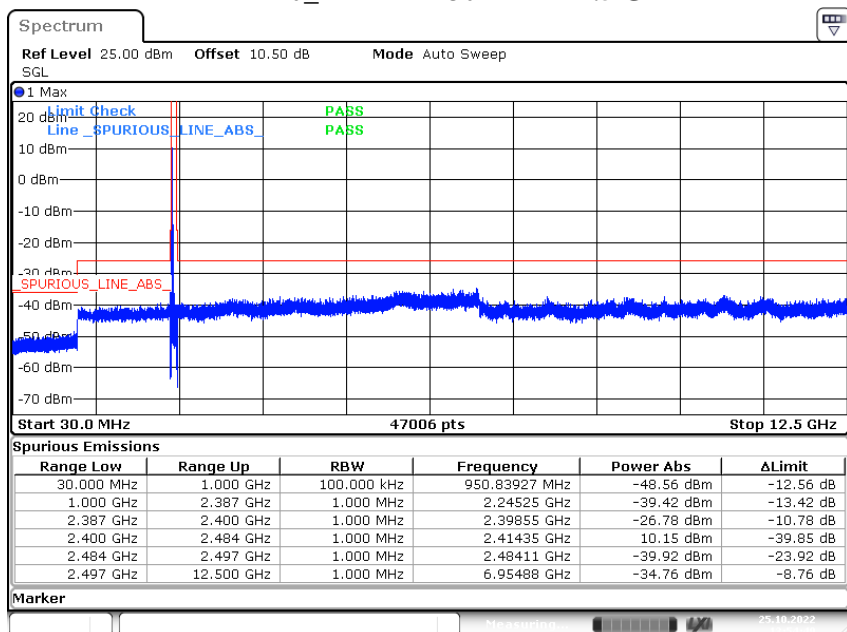
11g_2442MHz 30 MHz~12.5 GHz



11g_2472MHz 30 MHz~12.5 GHz

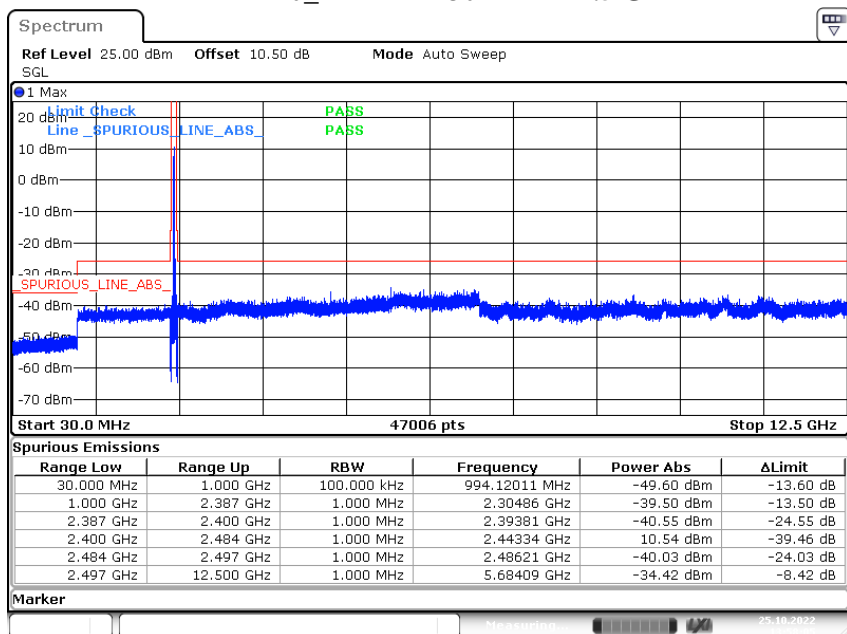


11n-HT20_2412MHz 30 MHz~12.5 GHz



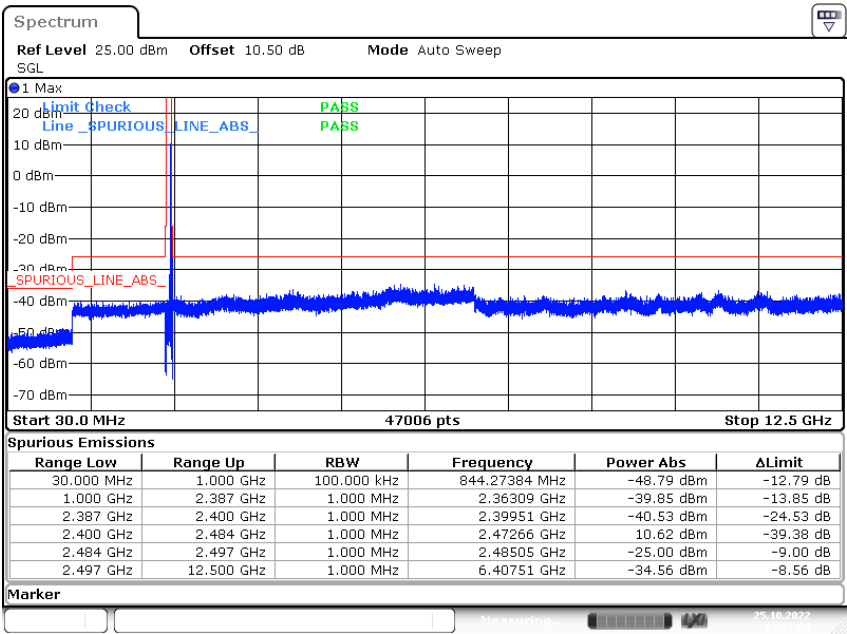
Date: 25.OCT.2022 13:54:50

11n-HT20_2442MHz 30 MHz~12.5 GHz



Date: 25.OCT.2022 13:58:06

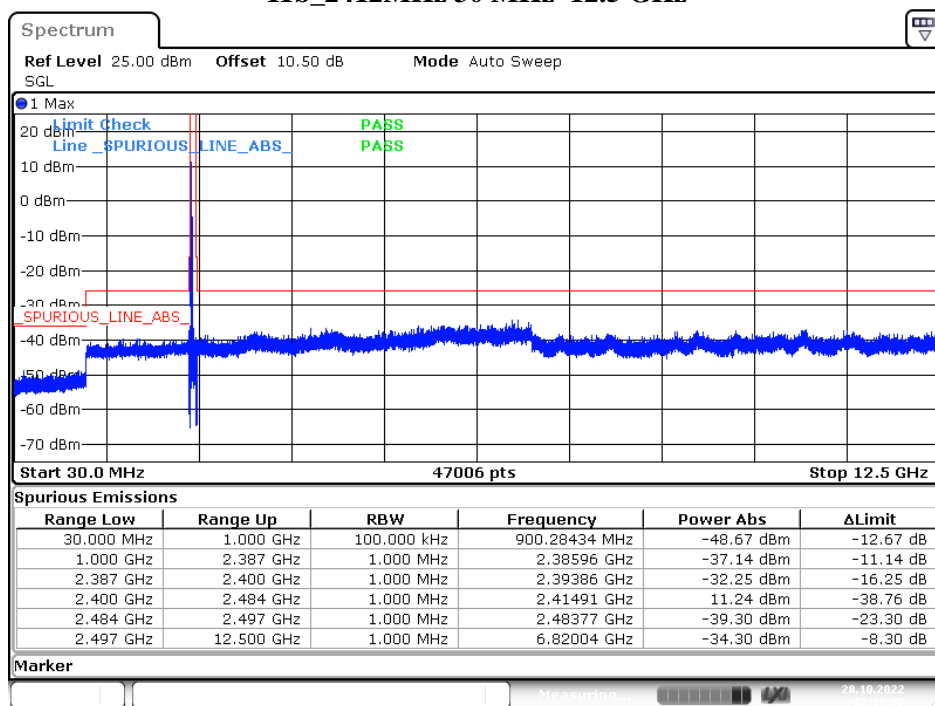
11n-HT20_2472MHz 30 MHz~12.5 GHz



Date: 25.OCT.2022 13:51:09

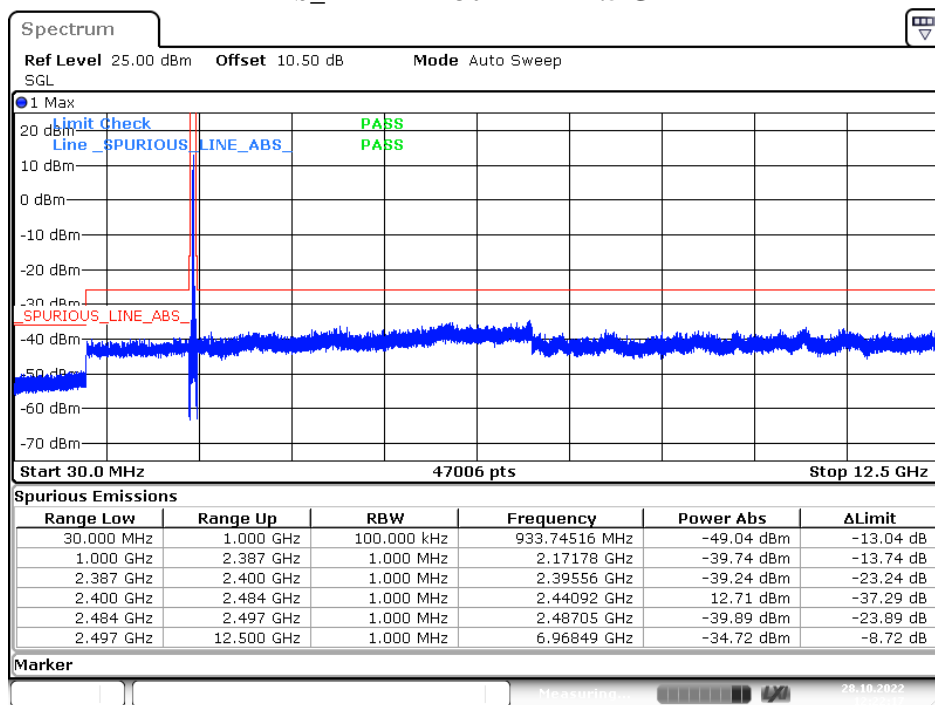
Low Voltage

11b_2412MHz 30 MHz~12.5 GHz



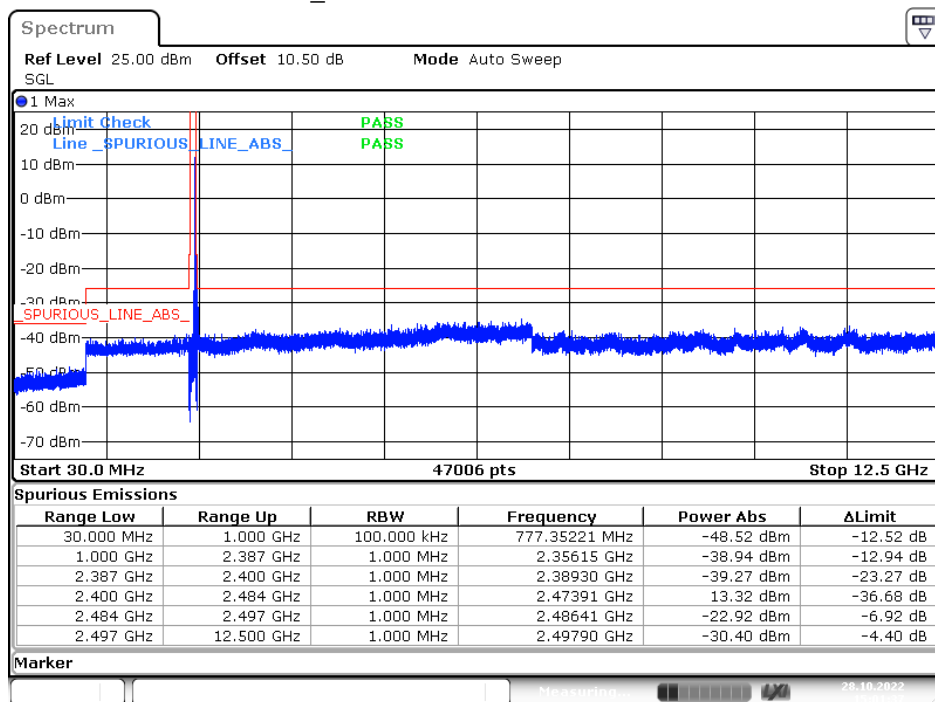
Date: 28.OCT.2022 12:19:07

11b_2442MHz 30 MHz~12.5 GHz



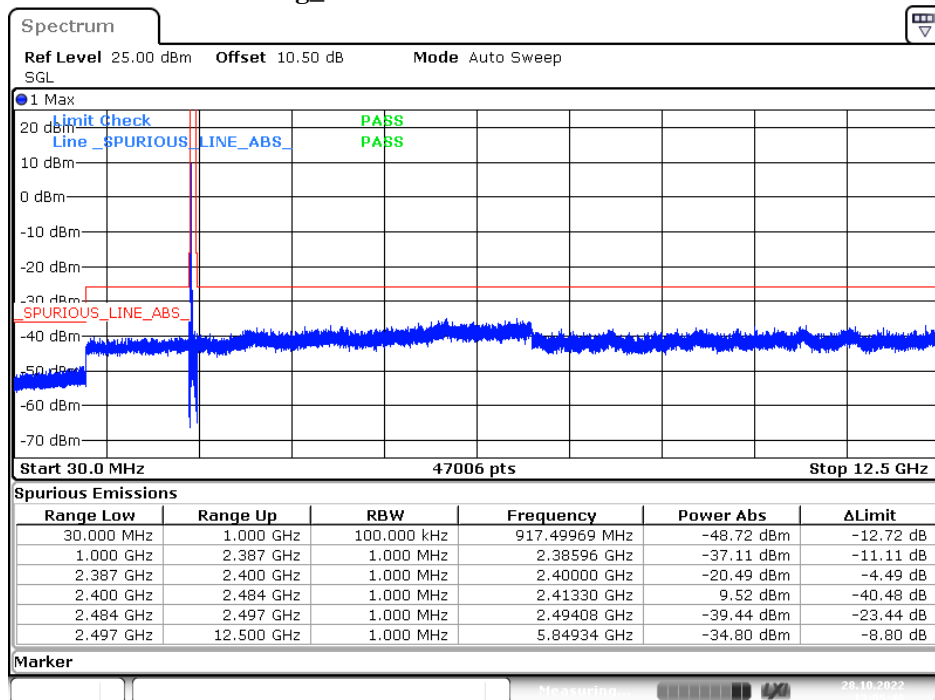
Date: 28.OCT.2022 12:22:18

11b_2472MHz 30 MHz~12.5 GHz



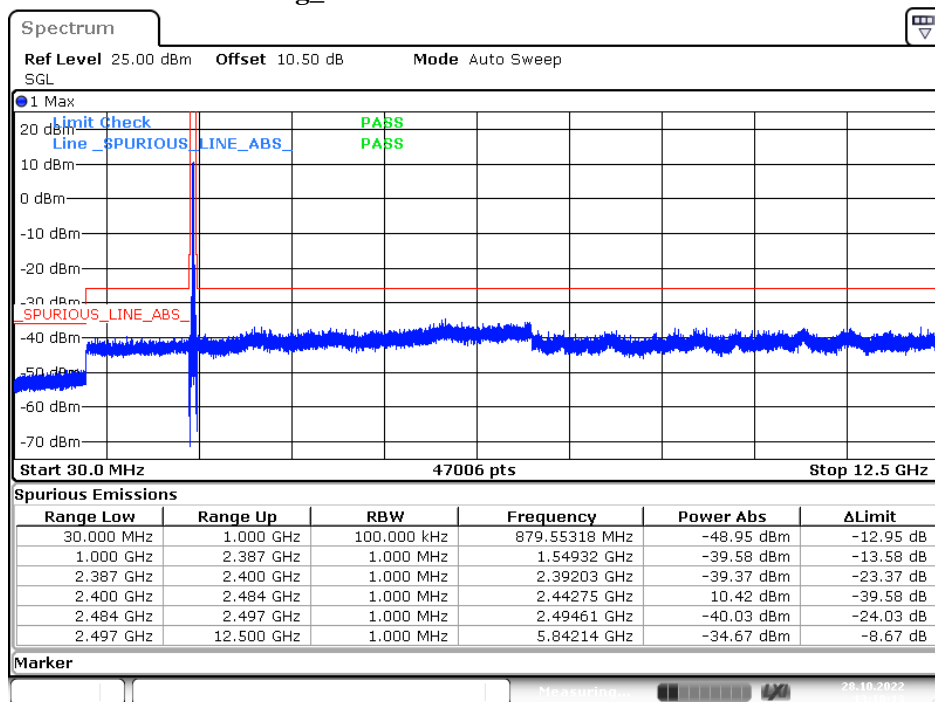
Date: 28.OCT.2022 15:01:37

11g_2412MHz 30 MHz~12.5 GHz



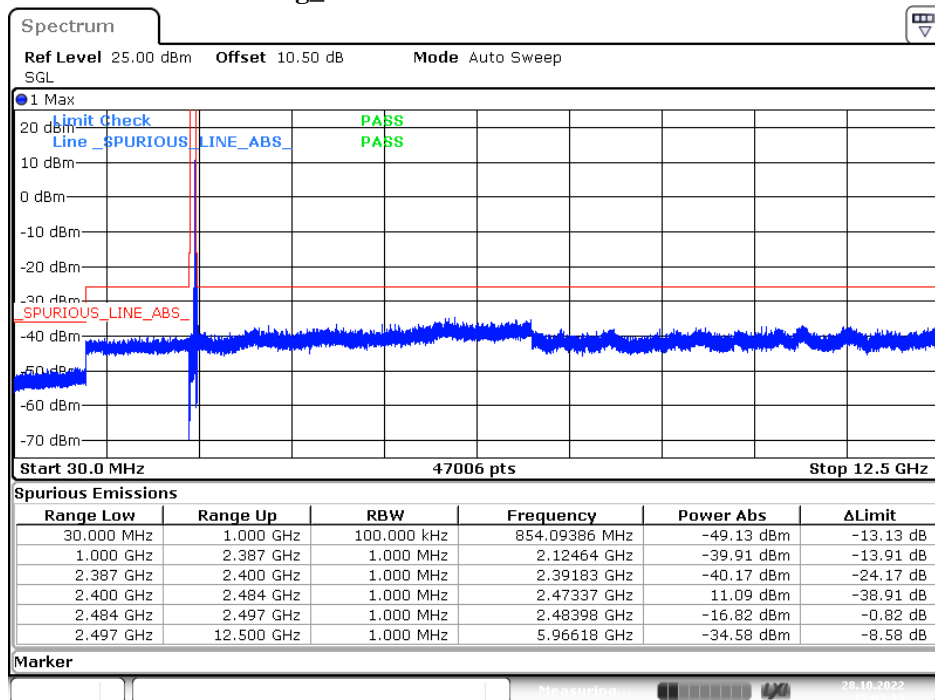
Date: 28.OCT.2022 13:05:48

11g_2442MHz 30 MHz~12.5 GHz

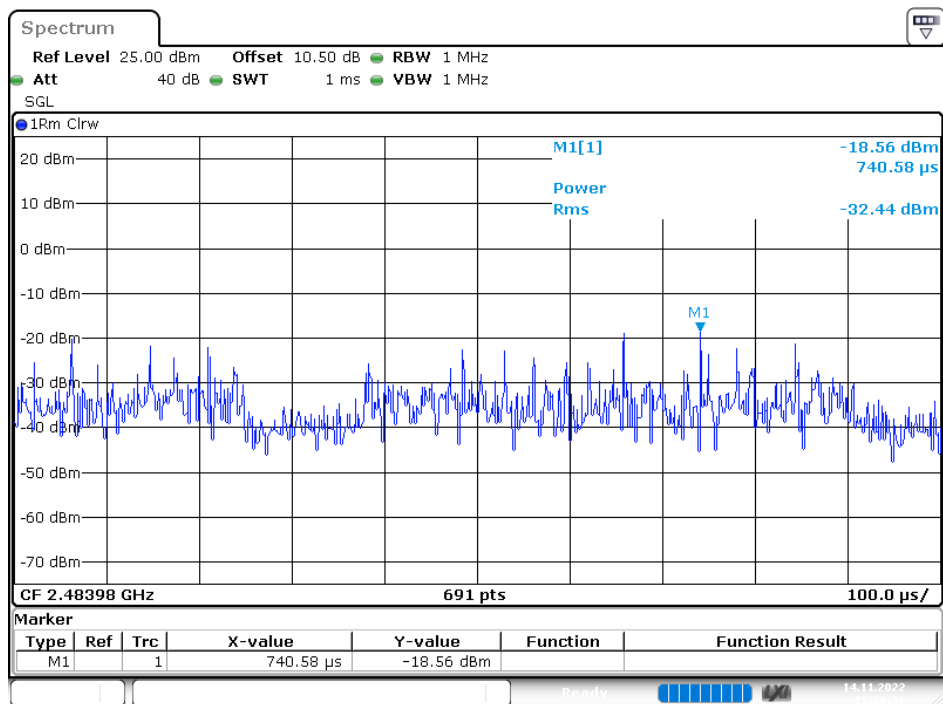


Date: 28.OCT.2022 13:10:13

11g_2472MHz 30 MHz~12.5 GHz

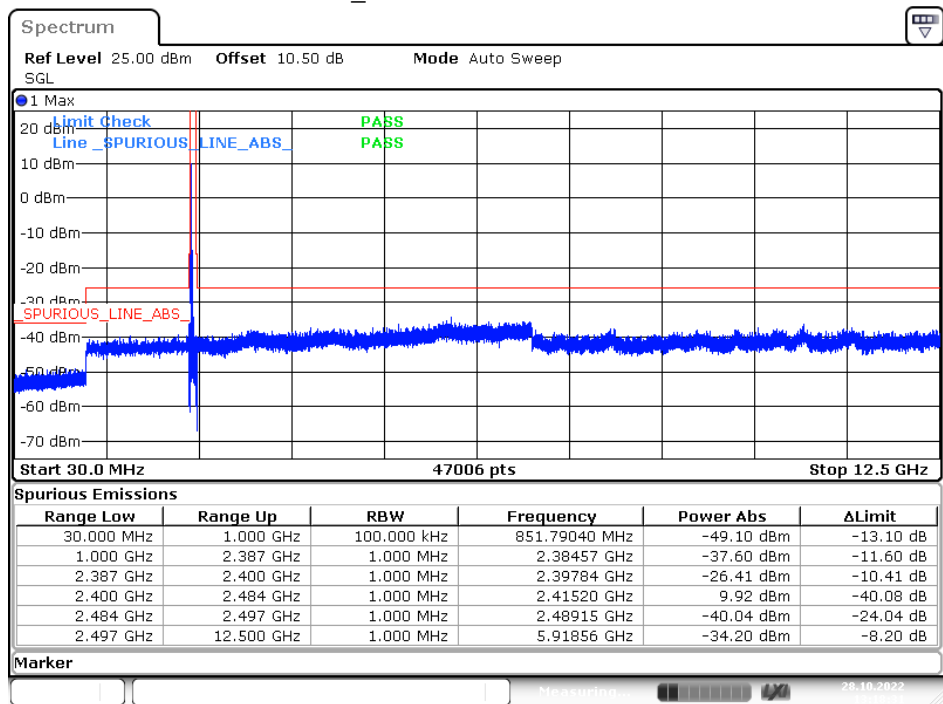


Date: 28.OCT.2022 15:03:53



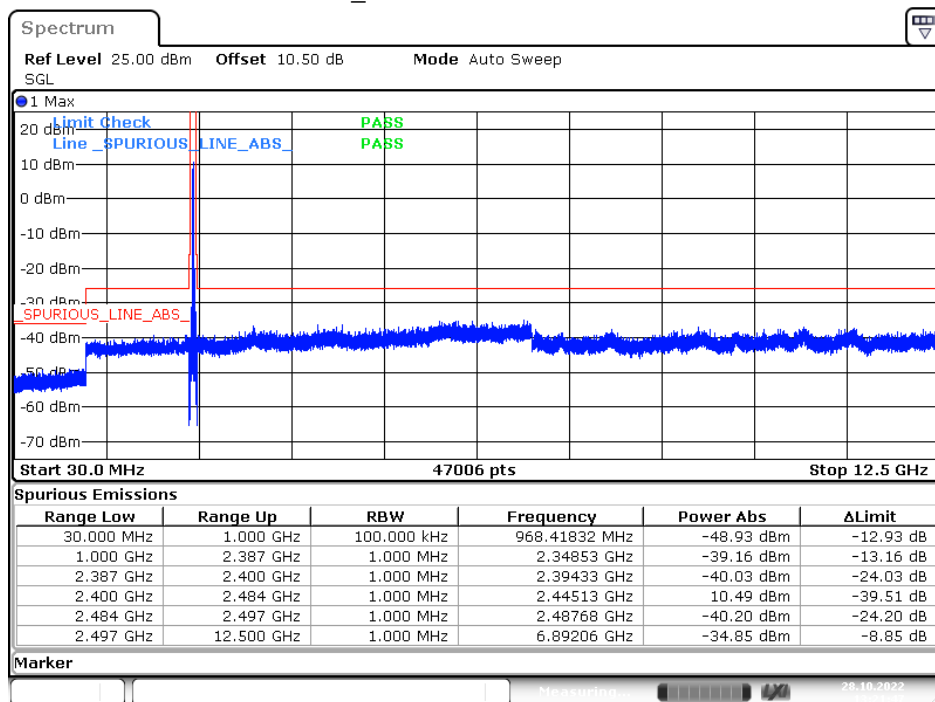
Date: 14.NOV.2022 15:20:36

11n-HT20_2412MHz 30 MHz~12.5 GHz



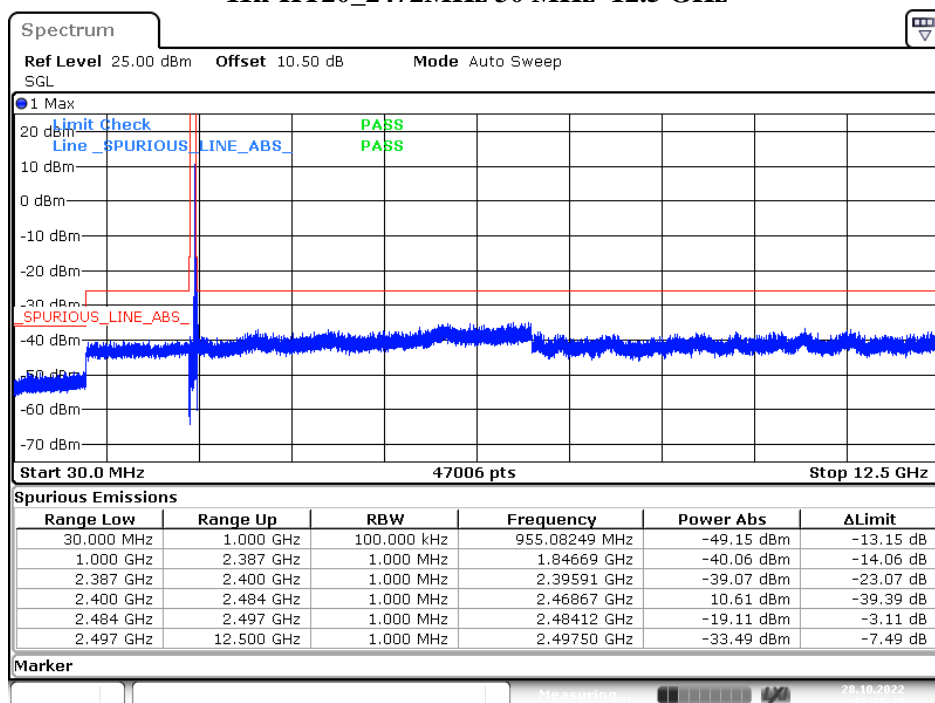
Date: 28.OCT.2022 13:18:30

11n-HT20_2442MHz 30 MHz~12.5 GHz



Date: 28.OCT.2022 13:21:46

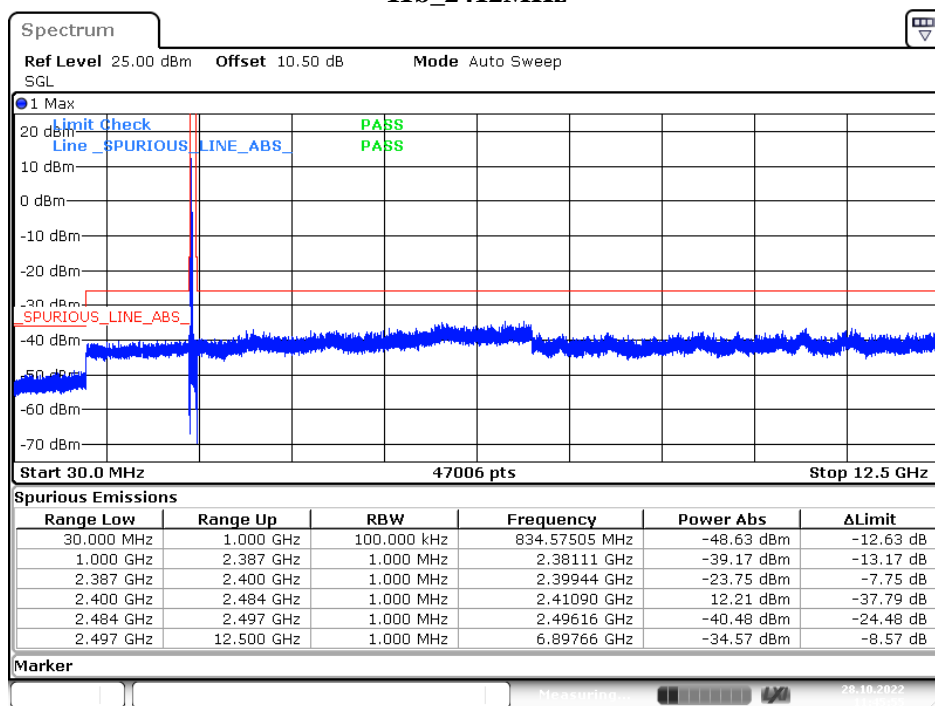
11n-HT20_2472MHz 30 MHz~12.5 GHz



Date: 28.OCT.2022 13:25:28

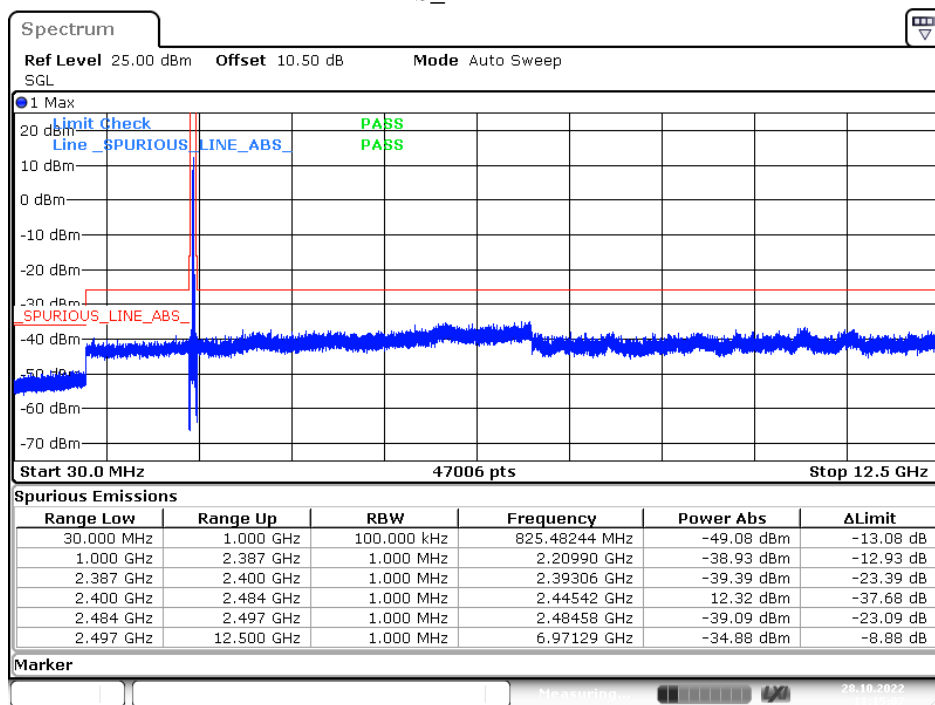
High Voltage

11b_2412MHz



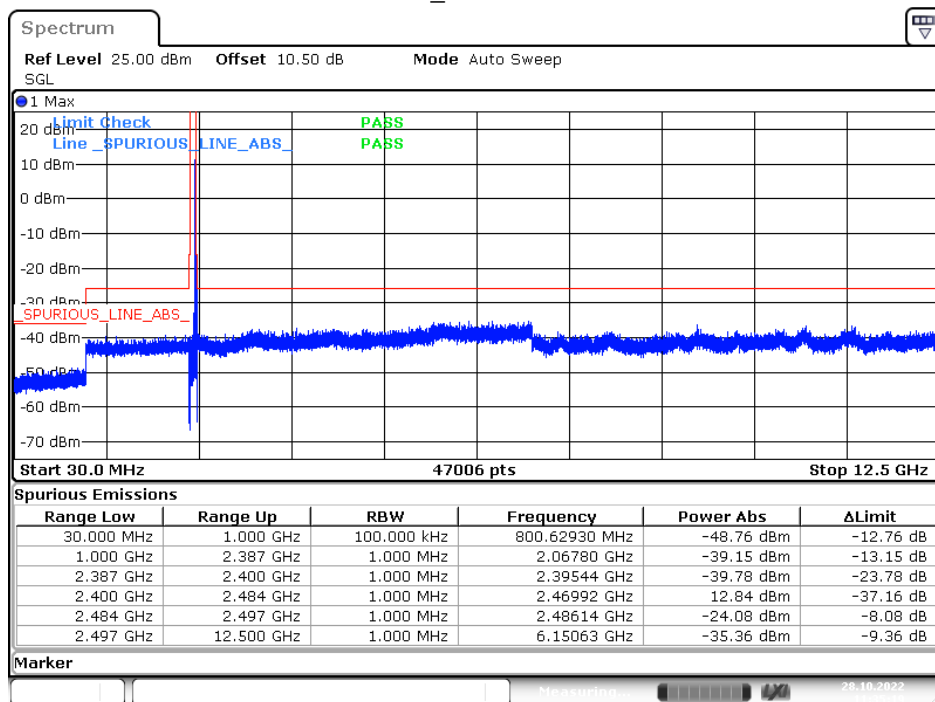
Date: 28.OCT.2022 11:45:55

11b_2442MHz



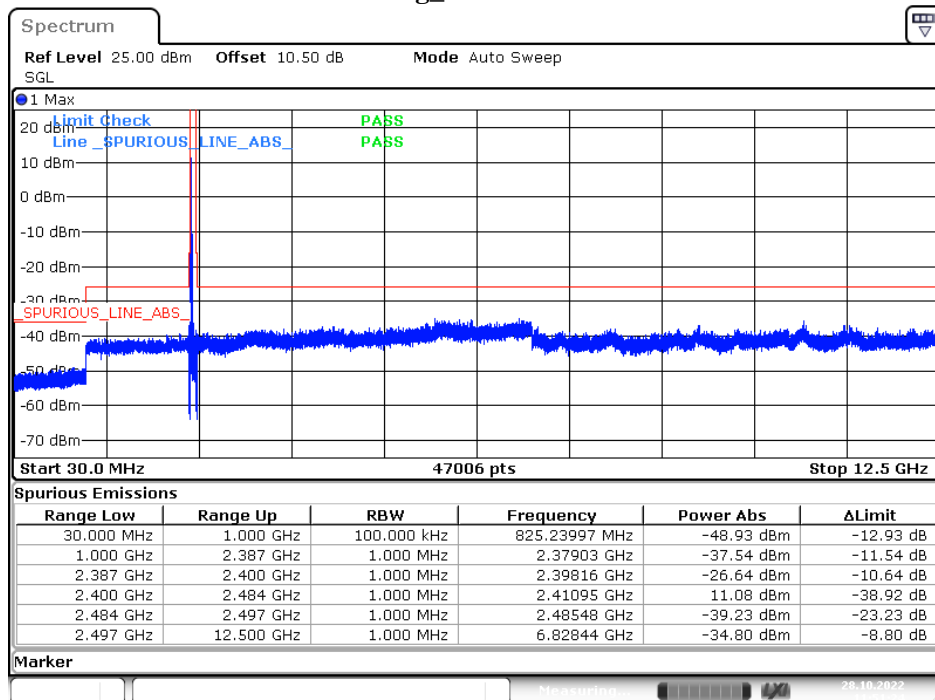
Date: 28.OCT.2022 11:15:06

11b_2472MHz



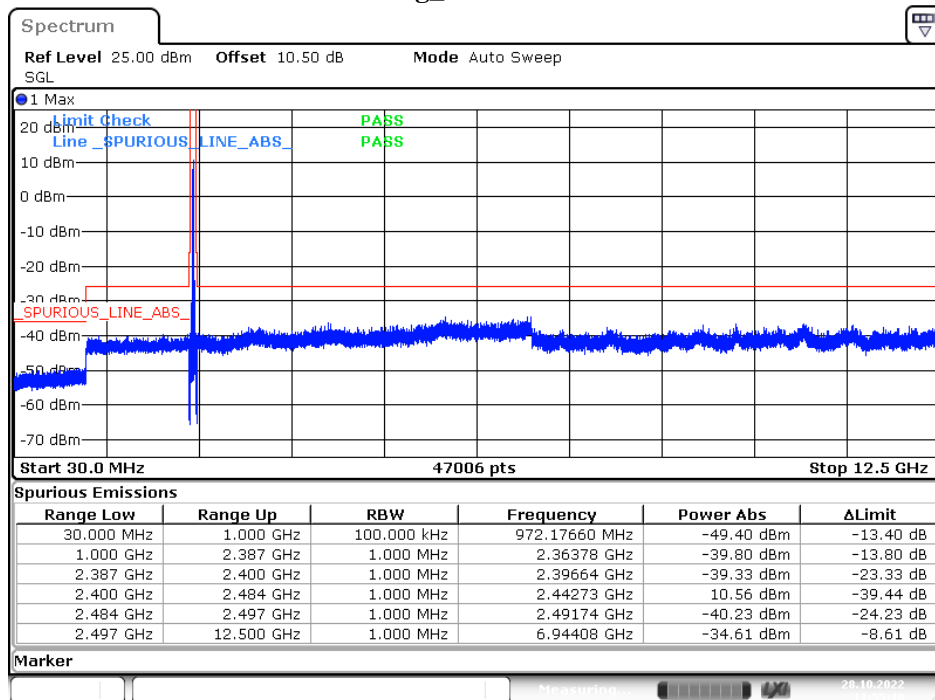
Date: 28.OCT.2022 11:35:19

11g_2412MHz



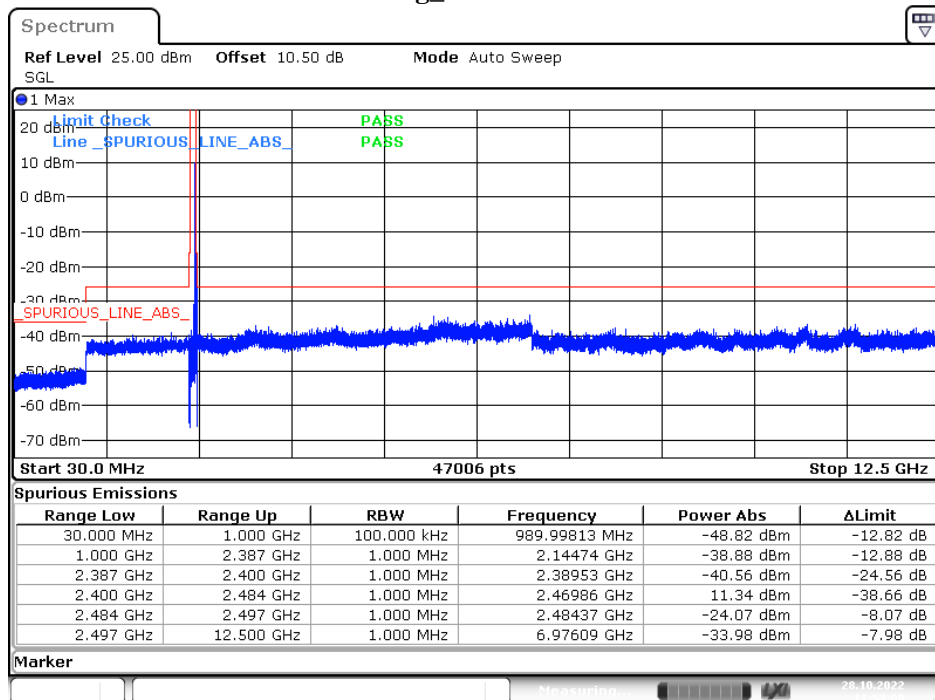
Date: 28.OCT.2022 11:51:24

11g_2442MHz



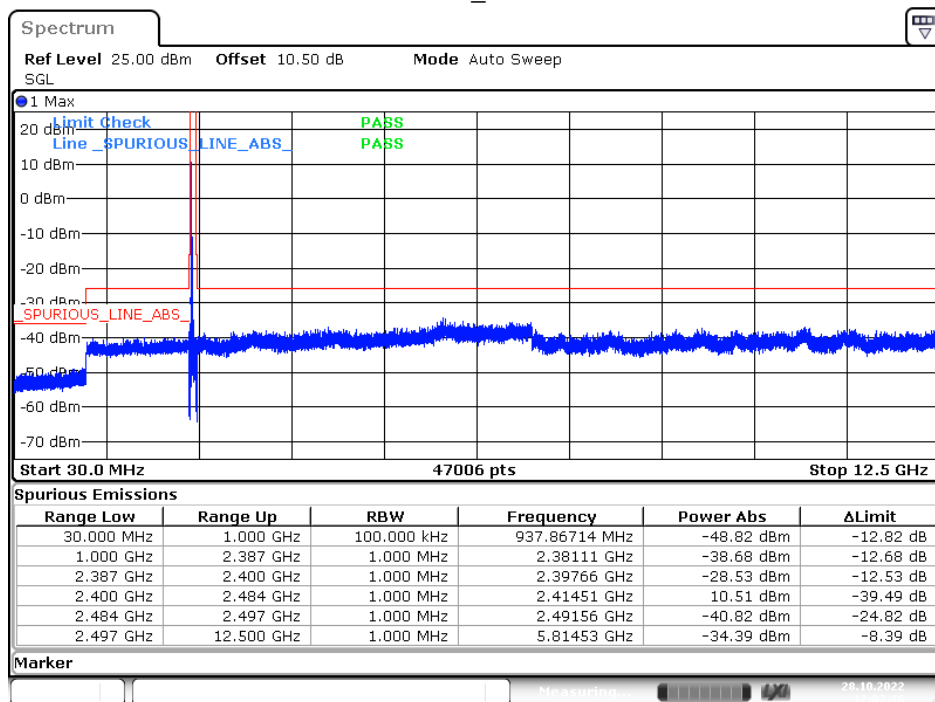
Date: 28.OCT.2022 11:55:19

11g_2472MHz



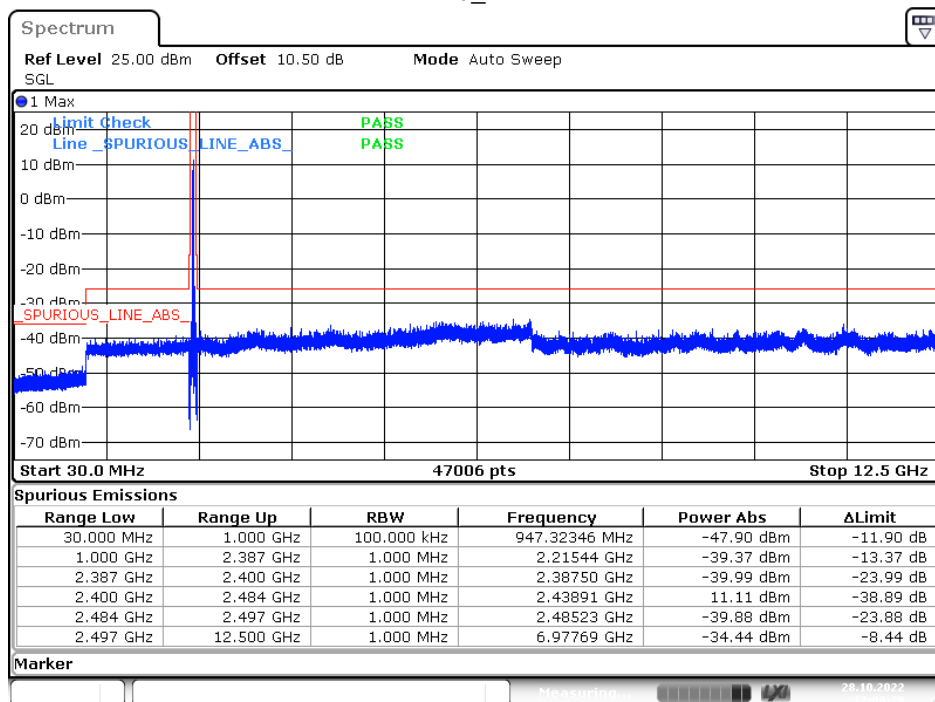
Date: 28.OCT.2022 11:59:00

11n-HT20_2412MHz

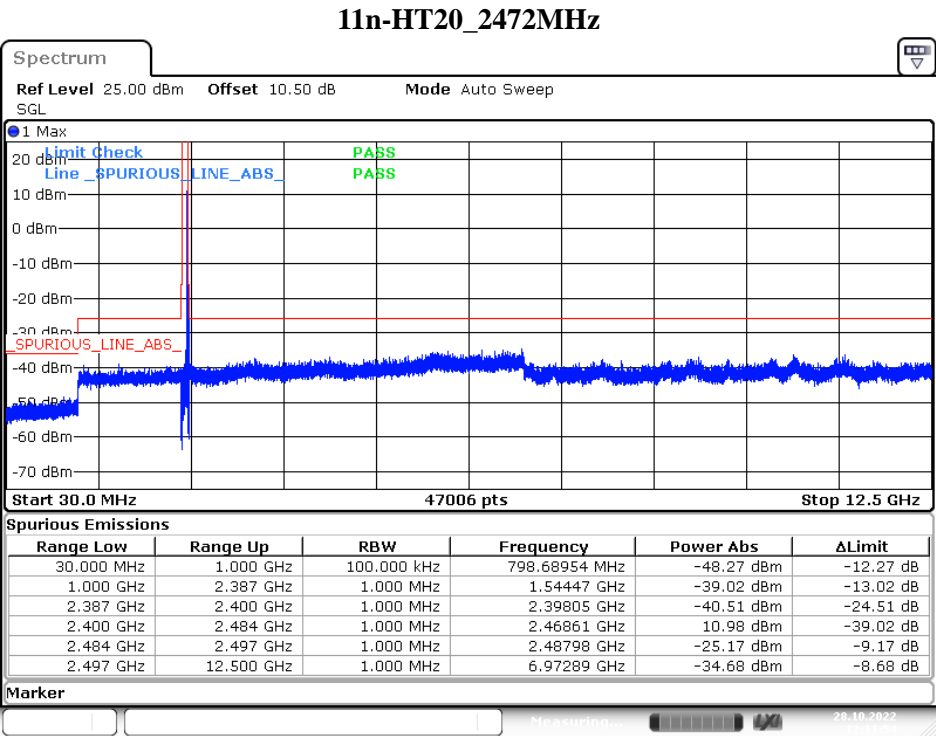


Date: 28.OCT.2022 12:02:16

11n-HT20_2442MHz



Date: 28.OCT.2022 12:08:29



Date: 28.OCT.2022 12:11:54

ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN

Limit

- $\leq 3 \text{ mW /MHz}$ (FHSS from 2402-2480 MHz)
- $\leq 10 \text{ mW/MHz}$ or $\leq 5 \text{ mW/MHz}$ (OFDM, DSSS from 2400-2483.5 MHz)
- $\leq 10 \text{ mW}$ (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -80%.

E.i.r.p:

- $\leq 12.14 \text{ dBm/MHz}$ (OFDM (20MHz system), DSSS from 2400-2483.5 MHz)
- $\leq 9.13 \text{ mW/MHz}$ (OFDM (40MHz system), from 2400-2483.5 MHz)

Test Procedure

For FHSS UUT:

- ☐ Connect the UUT to the spectrum analyser and use the following settings:
 - Frequency to measure (2402 MHz, 2441 MHz, and 2480 MHz)
 - RBW : 1 MHz
 - VBW : 1 MHz
 - Span: Wide enough to cover the complete power envelope of the signal of the UUT.
 - Detector: Average (see note).
 - Trace Mode: Max Hold.

For OFDM, DSSS UUT:

Step 1:

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

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz.
- VBW: 1 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz.
- RBW: 1 MHz.
- VBW: 1 MHz.
- Detector: Sample.

Use the analyser's time domain power function measure the mean power across the transmit on period, record the result. This level is recorded as the highest mean power (spectral power density) D in a 1 MHz band.

For other UUT:

Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Span: 5MHz.
- RBW: 3 MHz
- VBW: 10MHz.
- Detector: Peak
- Trace Mode: Max Hold.

NOTE: The detector mode "Average" is often referred to as "RMS Average" or "Sample" but do not use VideoAverage.

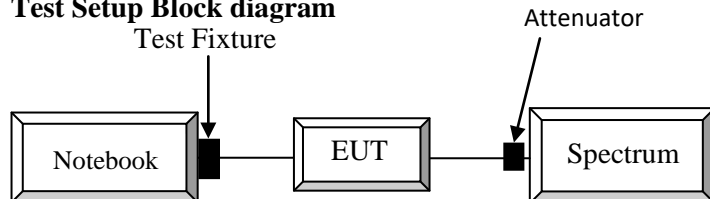
When the trace is complete, capture the trace, for example using the "View" option on the spectrum analyser. For Find the peak value of the trace and place the analyser marker on this peak. This level is recorded as D.

D shall be recorded in the test report.

The maximum PD, which is e.i.r.p. PSD (spectral density power) or power, is calculated from the above measured value D, and the applicable antenna assembly gain "G" in dBi, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

$$PD = D + G$$

Test Setup Block diagram



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	49 %
ATM Pressure:	101.0kPa

The testing was performed by Glenn Jiang from 2022-10-25 to 2022-11-24

Test Mode: Transmitting

Test Result: Compliant

Declared power: 802.11b=6mW/MHz; 802.11g=3mW/MHz; 802.11n20=3mW/MHz

Normal Voltage:**For Model: Ai-WB2-12F**

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2412	7.25	5.31	≤10	-11.50	-80~ +20	9.71	≤12.14
	2442	7.31	5.38	≤10	-10.33	-80~ +20	9.77	≤12.14
	2472	7.03	5.05	≤10	-15.83	-80~ +20	9.49	≤12.14
11g	2412	3.79	2.39	≤10	-20.33	-80 - +20	6.25	≤12.14
	2442	3.78	2.39	≤10	-20.33	-80 - +20	6.24	≤12.14
	2472	4.19	2.62	≤10	-12.67	-80 - +20	6.65	≤12.14
11n20	2412	3.91	2.46	≤10	-18.00	-80~ +20	6.37	≤12.14
	2442	2.90	1.95	≤10	-35.00	-80~ +20	5.36	≤12.14
	2472	3.74	2.37	≤10	-21.00	-80~ +20	6.20	≤12.14

For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2412	6.9	4.9	≤10	-18.33	-80~ +20	9.36	≤12.14
	2442	7.93	6.21	≤10	3.50	-80~ +20	10.39	≤12.14
	2472	7.73	5.93	≤10	-1.17	-80~ +20	10.19	≤12.14
11g	2412	2.35	1.72	≤10	-42.67	-80 - +20	4.81	≤12.14
	2442	4.22	2.64	≤10	-12.00	-80 - +20	6.68	≤12.14
	2472	4.39	2.75	≤10	-8.33	-80 - +20	6.85	≤12.14
11n20	2412	3.27	2.12	≤10	-29.33	-80~ +20	5.73	≤12.14
	2442	3.64	2.31	≤10	-23.00	-80~ +20	6.10	≤12.14
	2472	4.42	2.77	≤10	-7.67	-80~ +20	6.88	≤12.14

Low Voltage**For Model: Ai-WB2-12F**

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2412	6.34	4.31	≤10	-28.17	-80~ +20	8.80	≤12.14
	2442	7.42	5.52	≤10	-8.00	-80~ +20	9.88	≤12.14
	2472	7.10	5.13	≤10	-14.50	-80~ +20	9.56	≤12.14
11g	2412	2.97	1.98	≤10	-34.00	-80~ +20	5.43	≤12.14
	2442	3.94	2.48	≤10	-17.33	-80~ +20	6.40	≤12.14
	2472	4.01	2.52	≤10	-16.00	-80~ +20	6.47	≤12.14
11n20	2412	2.70	1.86	≤10	-38.00	-80~ +20	5.16	≤12.14
	2442	1.50	1.41	≤10	-53	-80~ +20	3.96	≤12.14
	2472	4.19	2.62	≤10	-12.67	-80~ +20	6.65	≤12.14

For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output to- lerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2412	6.08	4.06	≤10	-32.33	-80~ +20	8.54	≤12.14
	2442	6.88	4.88	≤10	-18.67	-80~ +20	9.34	≤12.14
	2472	7.64	5.81	≤10	-3.17	-80~ +20	10.1	≤12.14
11g	2412	3.26	2.12	≤10	-29.33	-80~ +20	5.72	≤12.14
	2442	4.27	2.67	≤10	-11.00	-80~ +20	6.73	≤12.14
	2472	4.85	3.05	≤10	1.67	-80~ +20	7.31	≤12.14
11n20	2412	2.73	1.87	≤10	-37.67	-80~ +20	2.19	≤12.14
	2442	2.29	1.69	≤10	-43.67	-80~ +20	4.75	≤12.14
	2472	4.47	2.80	≤10	-6.67	-80~ +20	6.93	≤12.14

High Voltage**For Model: Ai-WB2-12F**

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2412	6.28	4.25	≤10	-29.17	-80~ +20	8.74	≤12.14
	2442	6.58	4.55	≤10	-24.17	-80~ +20	9.04	≤12.14
	2472	6.66	4.63	≤10	-22.83	-80~ +20	9.12	≤12.14
11g	2412	3.77	2.38	≤10	-20.67	-80~ +20	6.23	≤12.14
	2442	3.92	2.47	≤10	-17.67	-80~ +20	6.38	≤12.14
	2472	3.97	2.49	≤10	-17.00	-80~ +20	6.43	≤12.14
11n20	2412	3.49	2.23	≤10	-25.67	-80~ +20	5.95	≤12.14
	2442	4.06	2.55	≤10	-15.00	-80~ +20	6.52	≤12.14
	2472	3.36	2.17	≤10	-27.67	-80~ +20	5.82	≤12.14

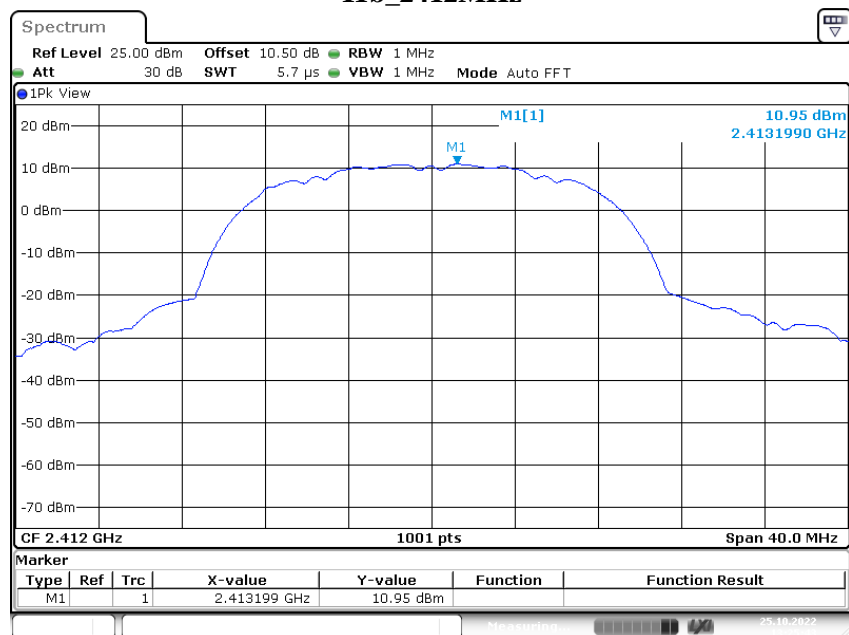
For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Re- sult	Limit	Re- sult	Limit
11b	2412	6.73	4.71	≤10	-21.50	-80~ +20	9.19	≤12.14
	2442	6.63	4.60	≤10	-23.33	-80~ +20	9.09	≤12.14
	2472	7.38	5.47	≤10	-8.83	-80~ +20	9.84	≤12.14
11g	2412	3.75	2.37	≤10	-21.00	-80~ +20	6.21	≤12.14
	2442	4.47	2.80	≤10	-6.67	-80~ +20	6.93	≤12.14
	2472	4.41	2.76	≤10	-8.00	-80~ +20	6.87	≤12.14
11n20	2412	2.89	1.95	≤10	-35.00	-80~ +20	5.35	≤12.14
	2442	3.52	2.25	≤10	-25.00	-80~ +20	5.98	≤12.14
	2472	4.40	2.75	≤10	-8.33	-80~ +20	6.86	≤12.14

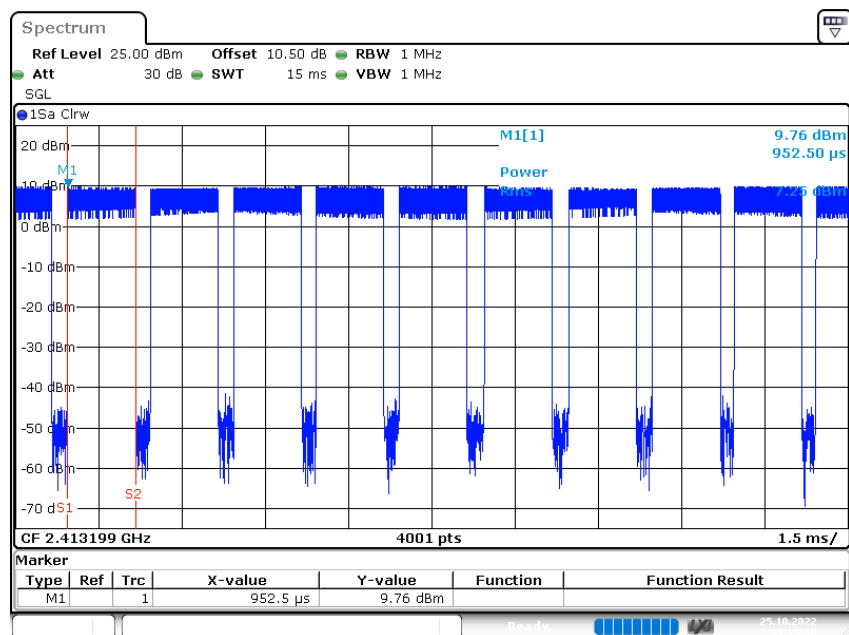
Note1:Antenna output power tolerance(%) = (Antenna output power - declared power)/ declaredpower*100

Note2:EIRP(dBm/MHz) =Conducted power+Antenna gain

Note3:The Ant1 gain is 2.46dBi

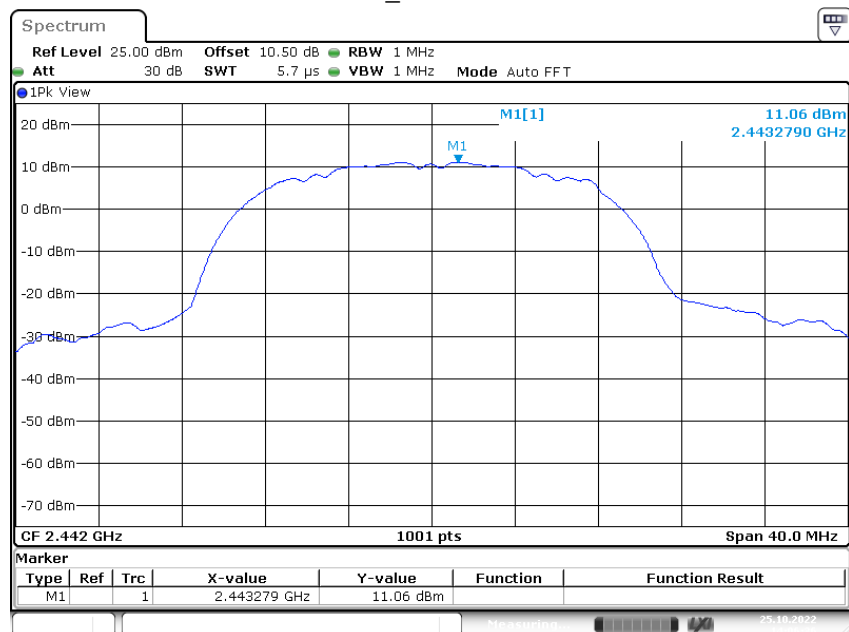
**Normal Voltage:
For Model: Ai-WB2-12F****11b_2412MHz**

Date: 25.OCT.2022 13:25:44

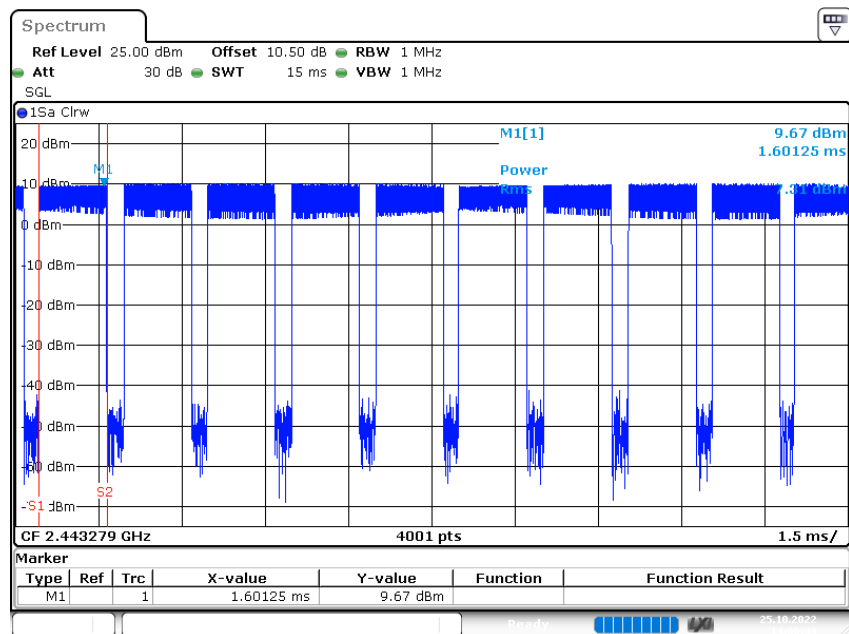


Date: 25.OCT.2022 13:25:50

11b_2442MHz

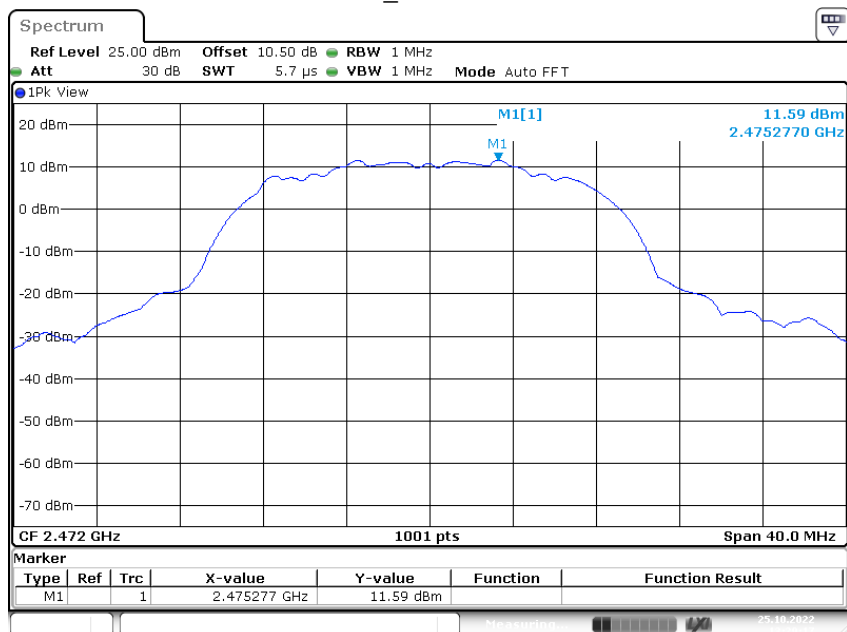


Date: 25.OCT.2022 14:06:36

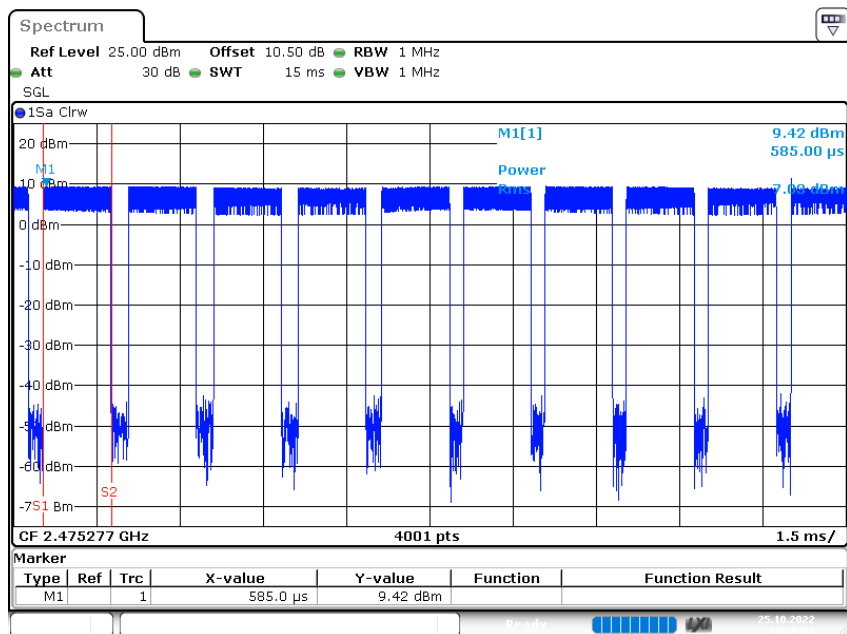


Date: 25.OCT.2022 14:06:43

11b_2472MHz

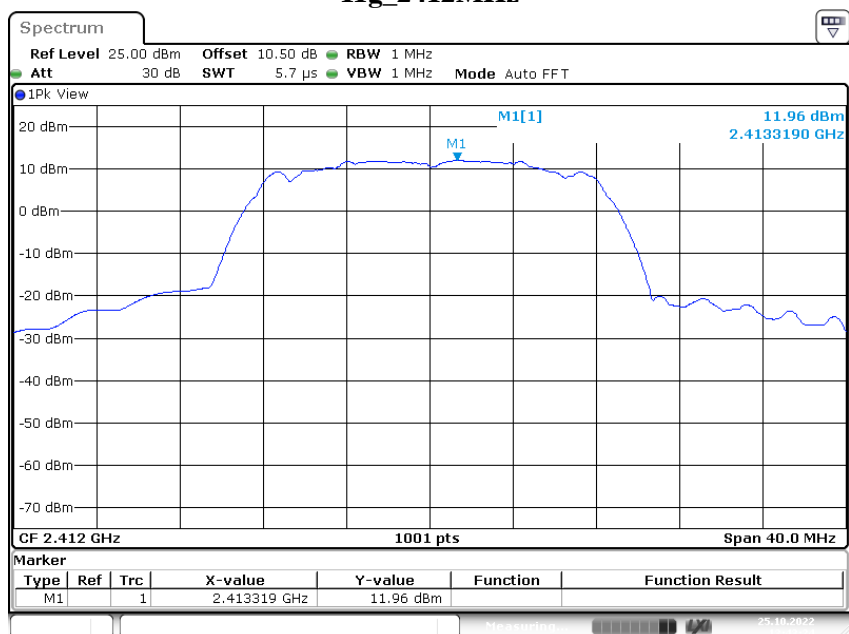


Date: 25.OCT.2022 13:29:17

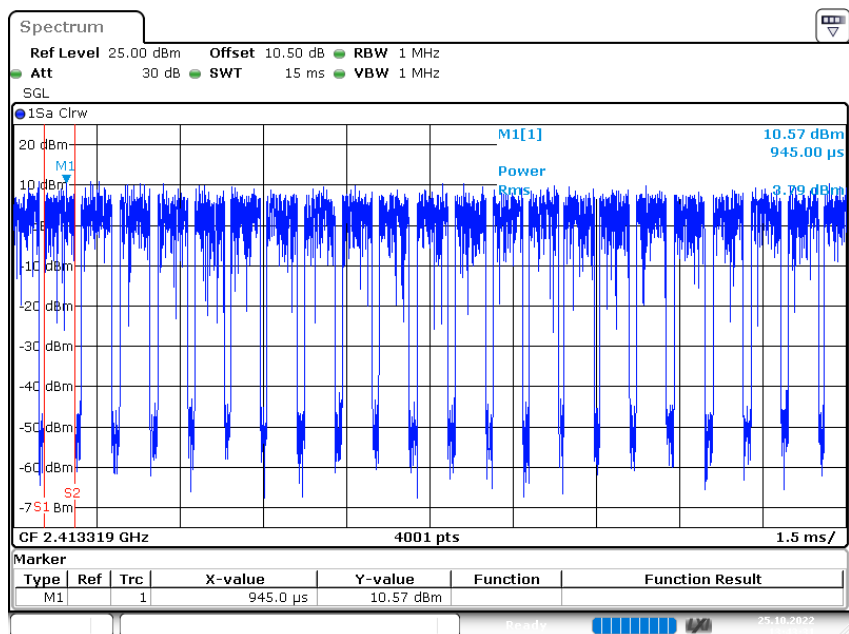


Date: 25.OCT.2022 13:29:24

11g_2412MHz

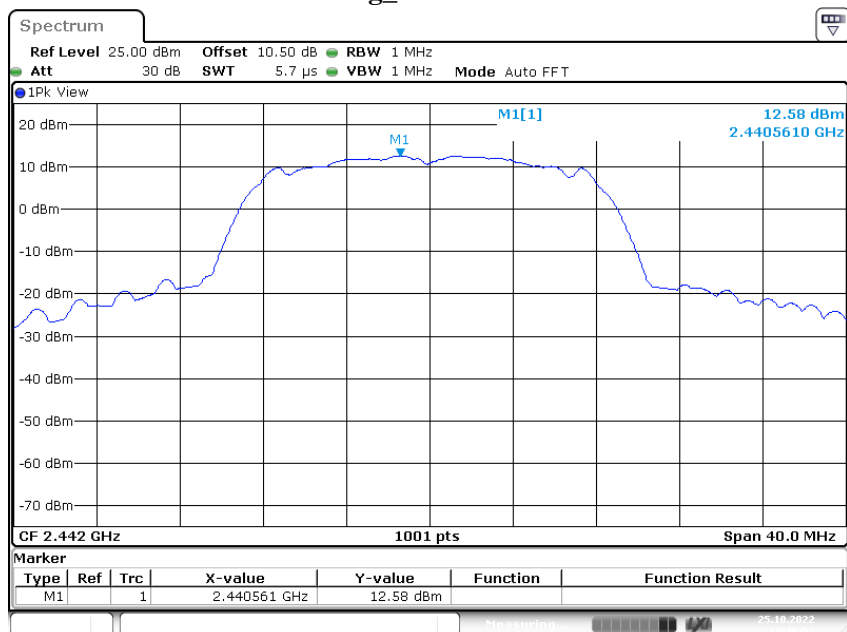


Date: 25.OCT.2022 13:43:25

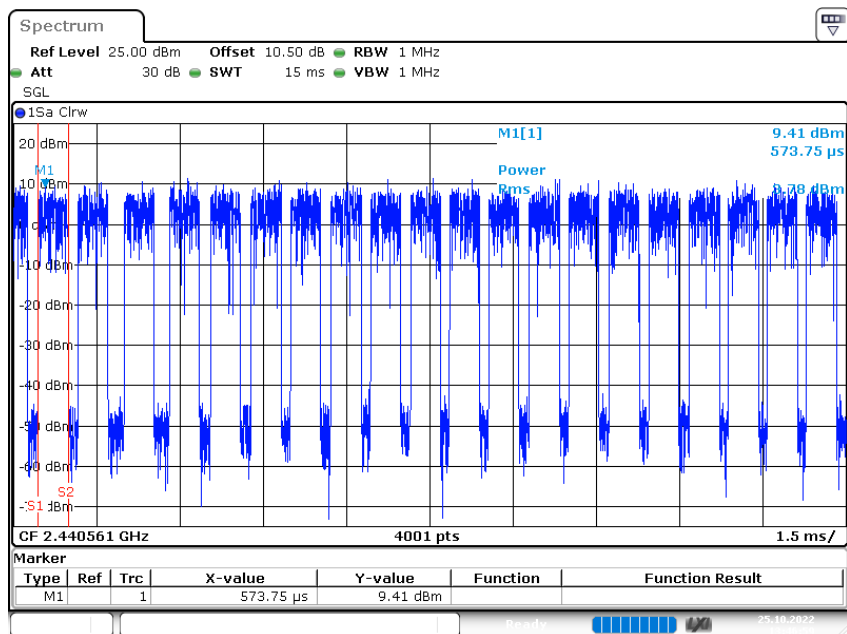


Date: 25.OCT.2022 13:43:32

11g_2442MHz

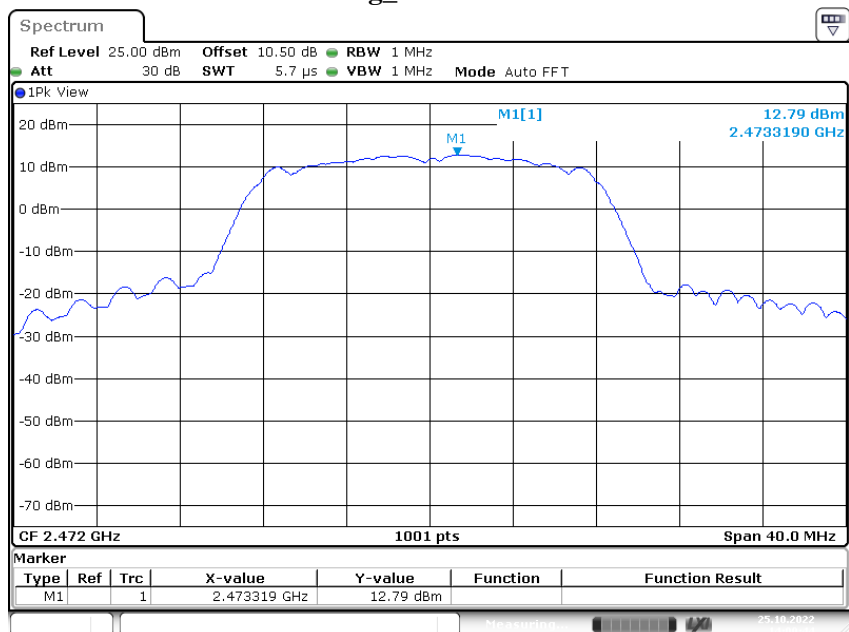


Date: 25.OCT.2022 13:46:52

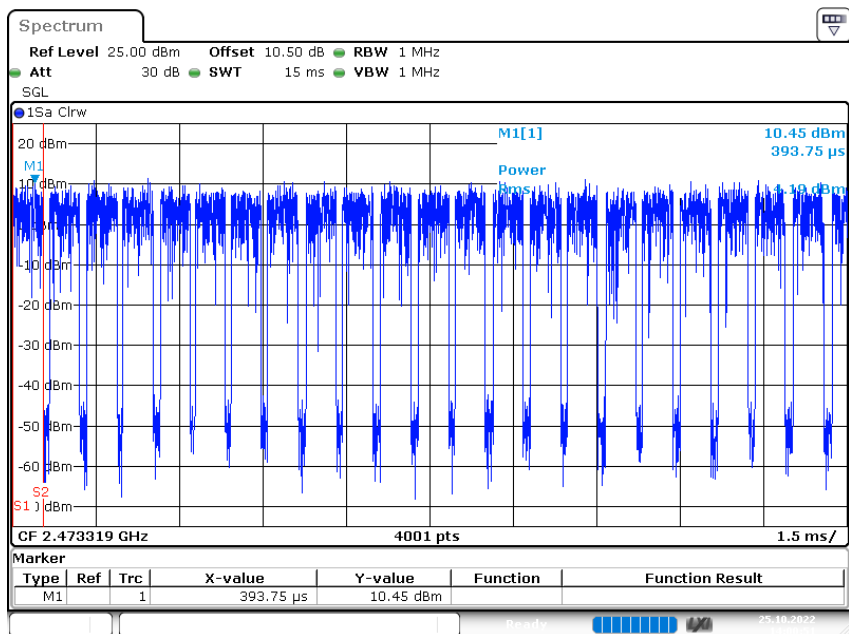


Date: 25.OCT.2022 13:46:59

11g_2472MHz

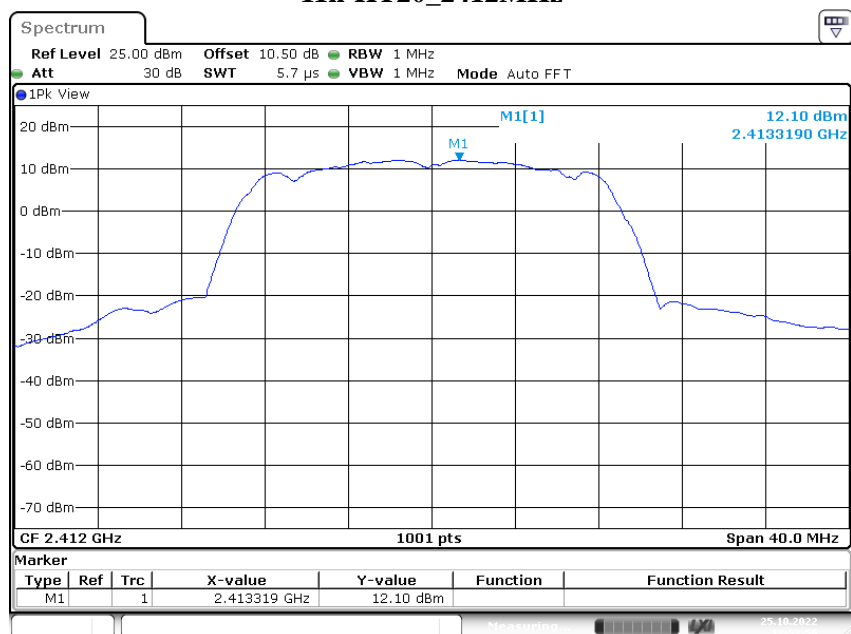


Date: 25.OCT.2022 14:00:44

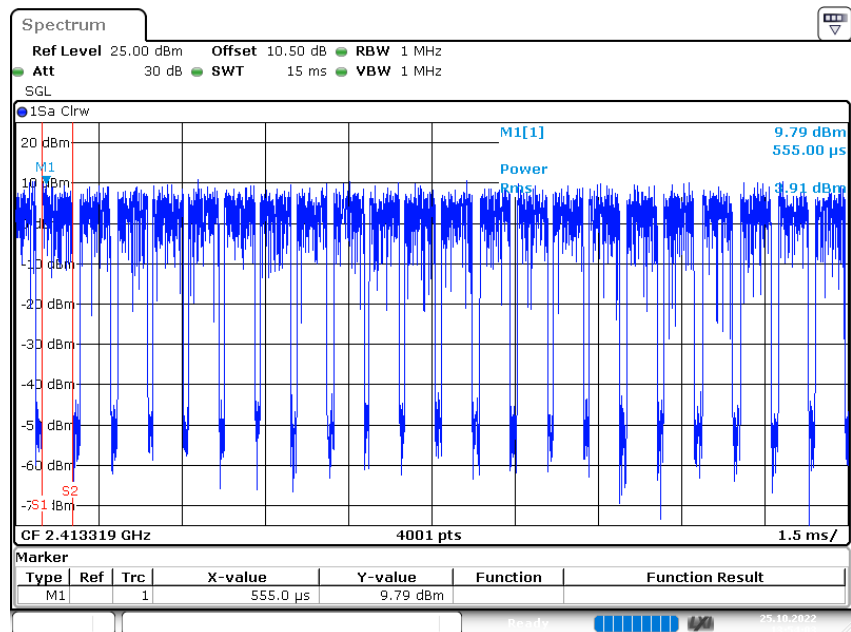


Date: 25.OCT.2022 14:00:51

11n-HT20_2412MHz

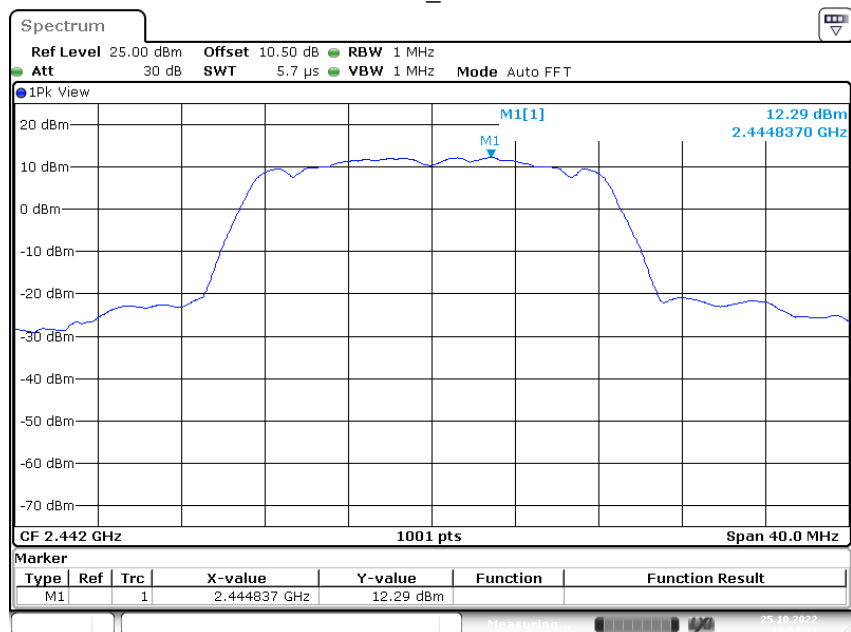


Date: 25.OCT.2022 13:53:56

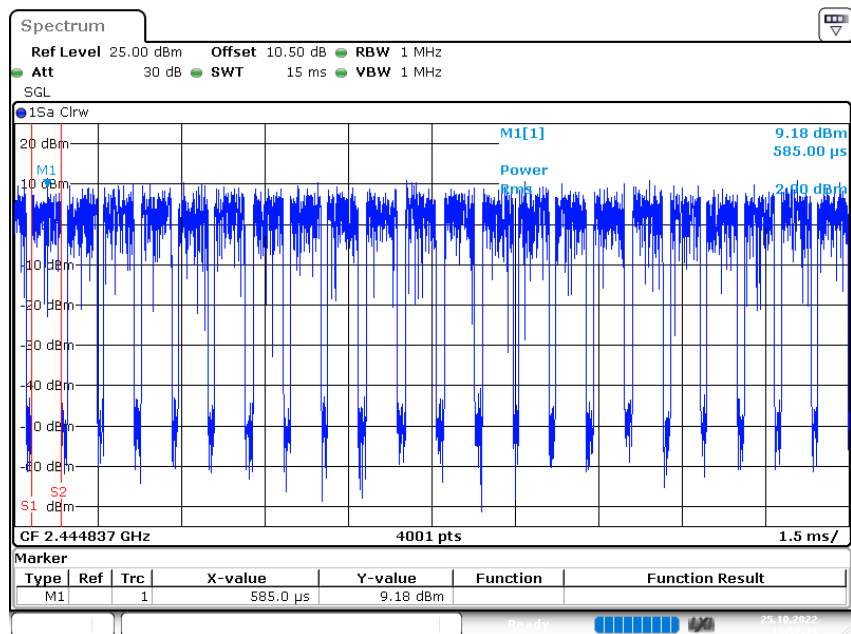


Date: 25.OCT.2022 13:54:03

11n-HT20_2442MHz

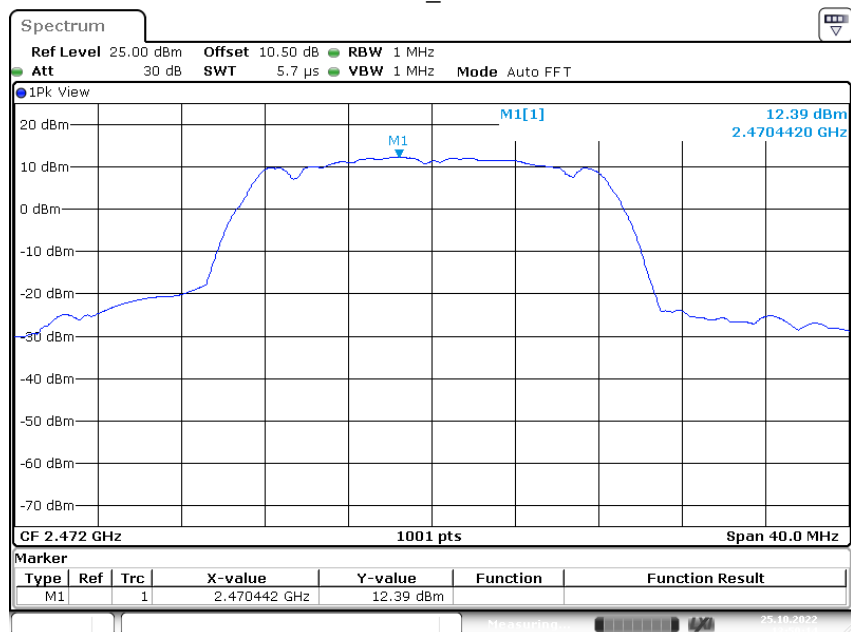


Date: 25.OCT.2022 13:57:12

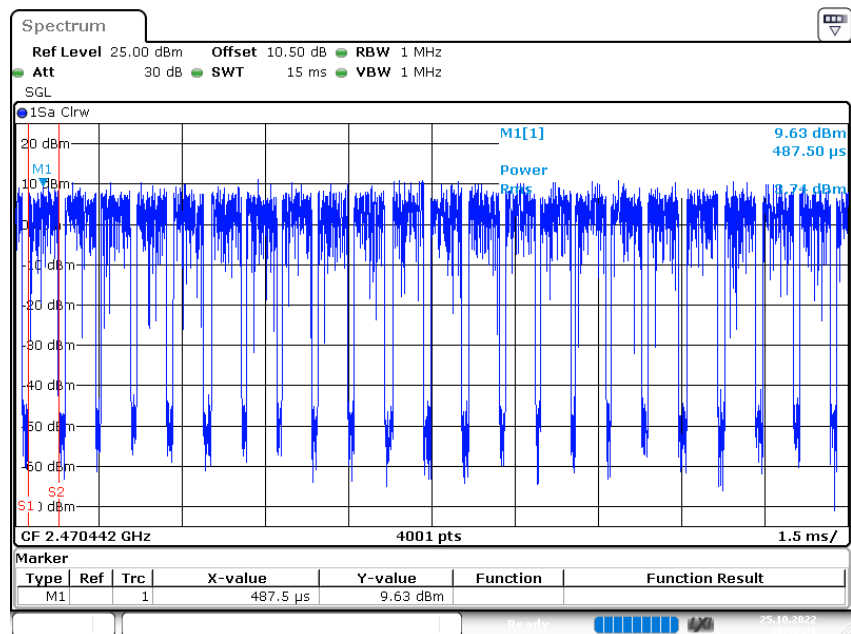


Date: 25.OCT.2022 13:57:19

11n-HT20_2472MHz



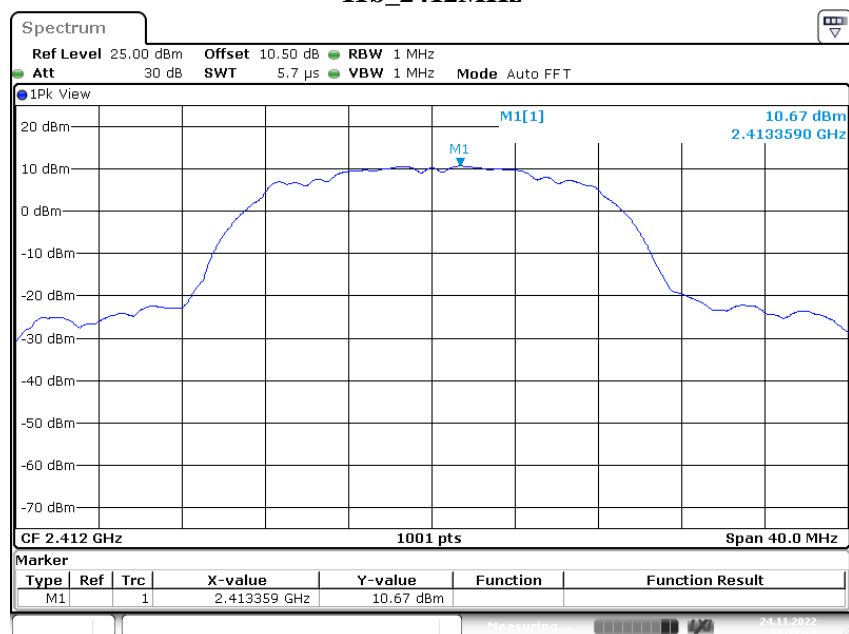
Date: 25.OCT.2022 13:50:14



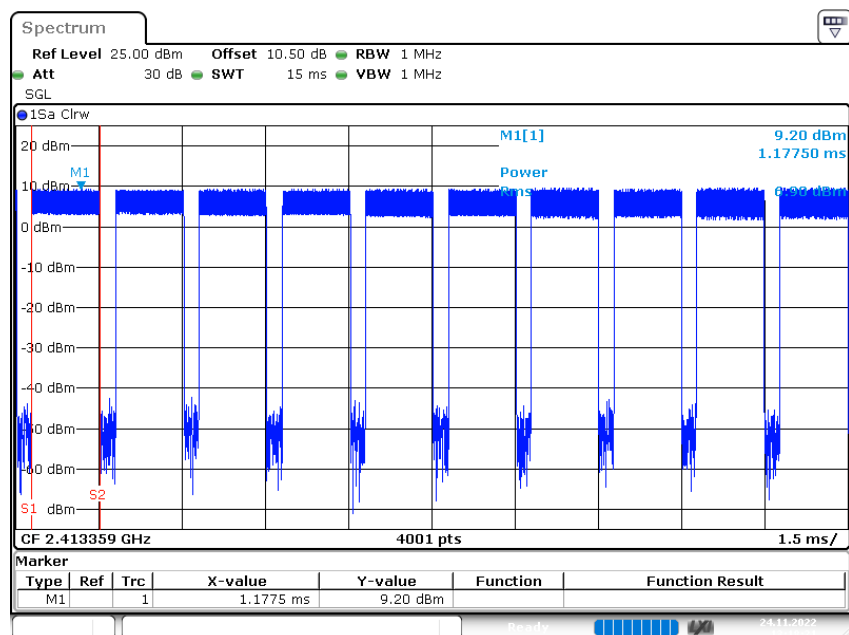
Date: 25.OCT.2022 13:50:21

For Model: Ai-WB2-12S

11b_2412MHz

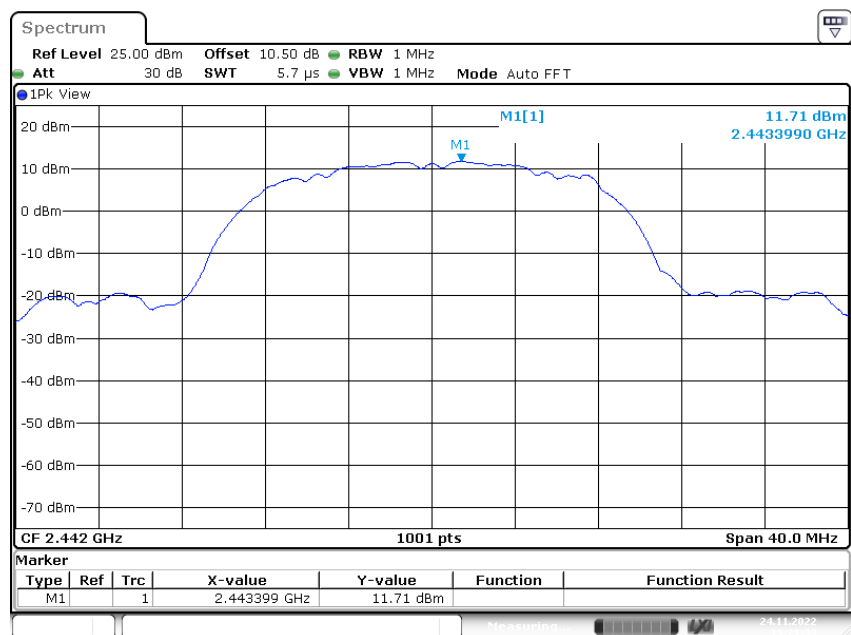


Date: 24.NOV.2022 13:18:15

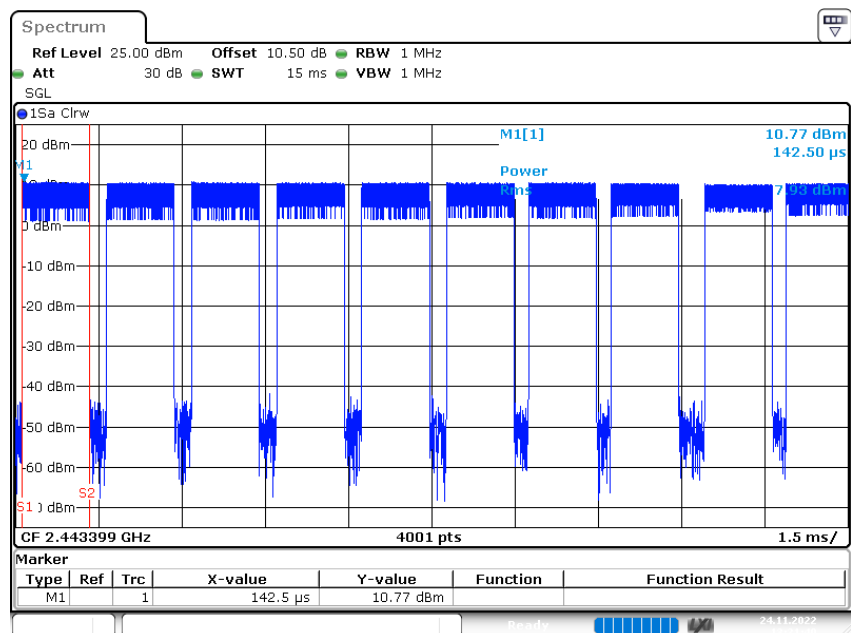


Date: 24.NOV.2022 13:18:21

11b_2442MHz

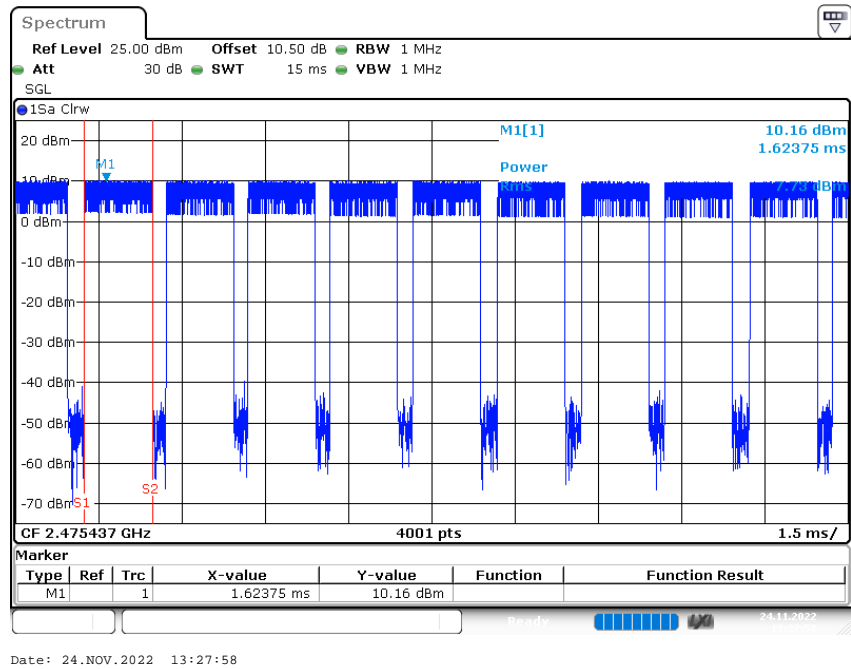
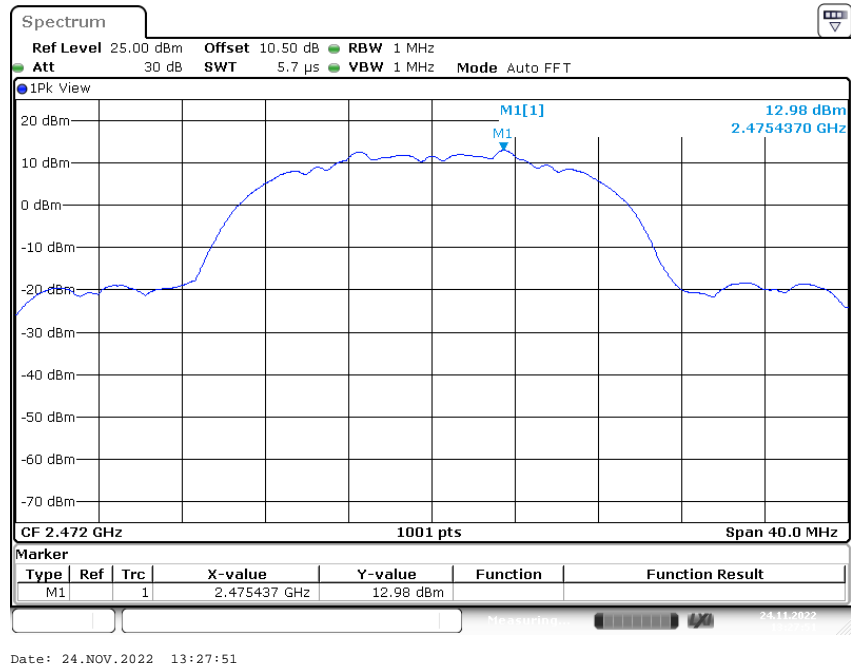


Date: 24.NOV.2022 13:21:34

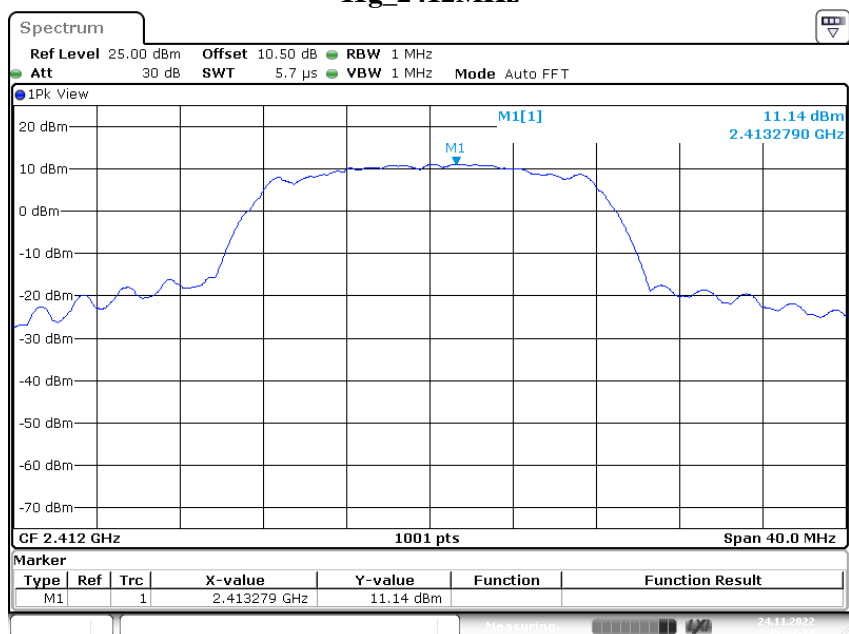


Date: 24.NOV.2022 13:21:41

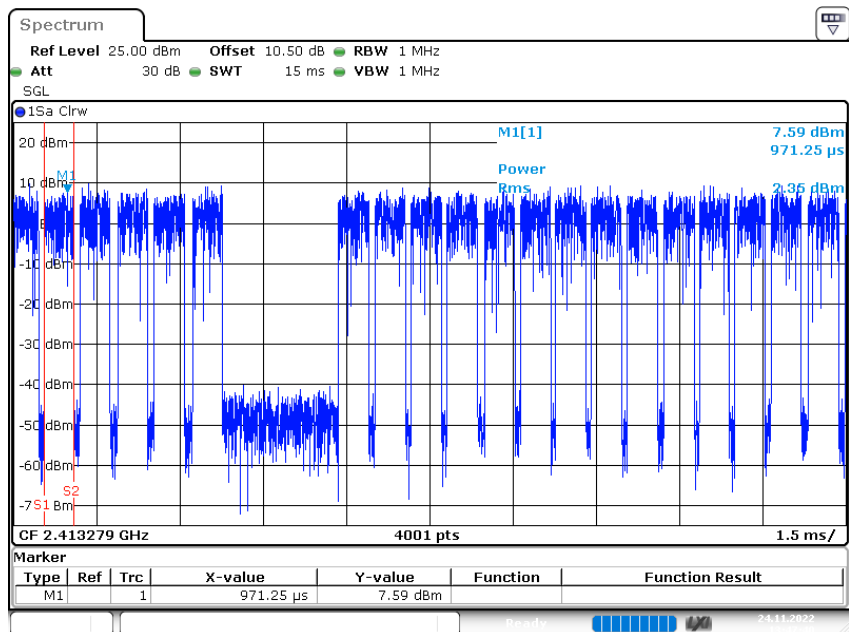
11b_2472MHz



11g_2412MHz

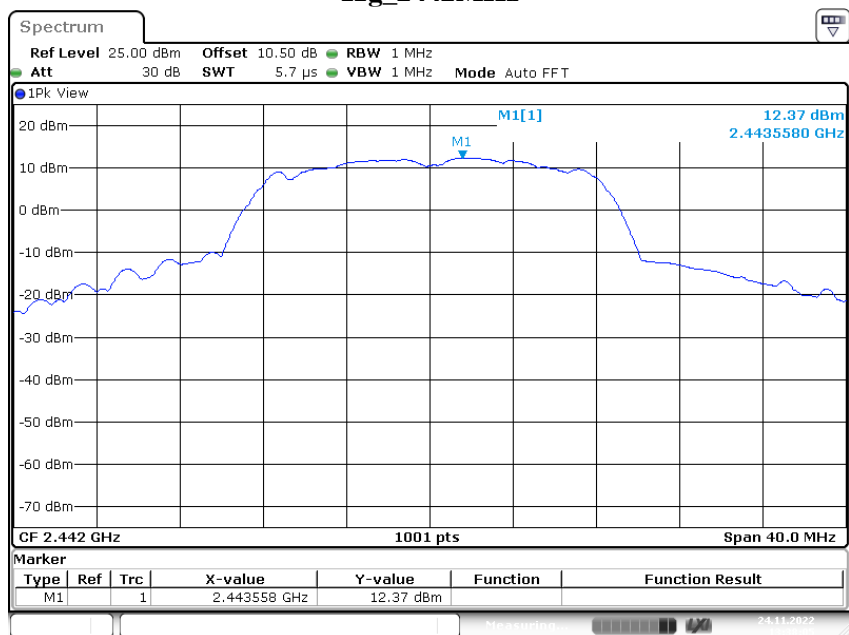


Date: 24.NOV.2022 13:47:33

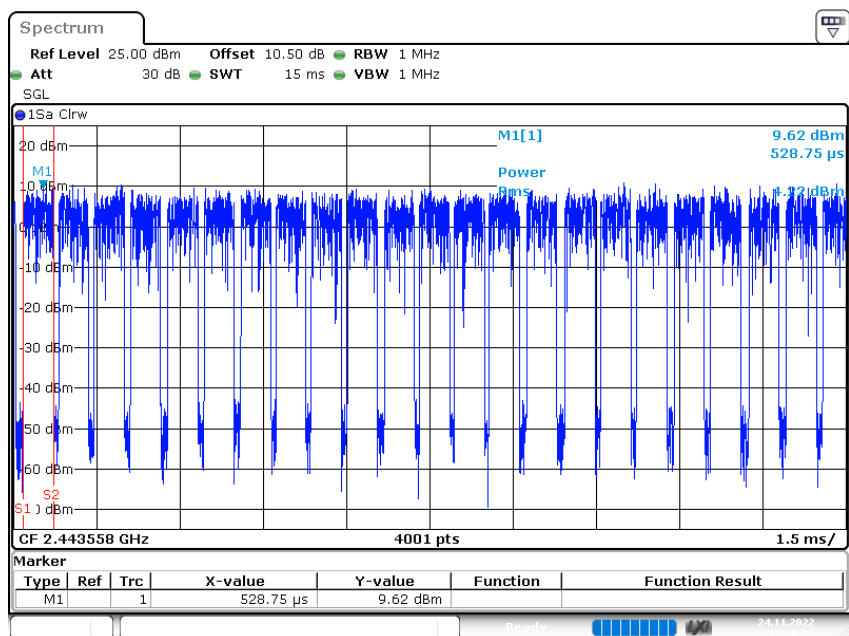


Date: 24.NOV.2022 13:47:40

11g_2442MHz

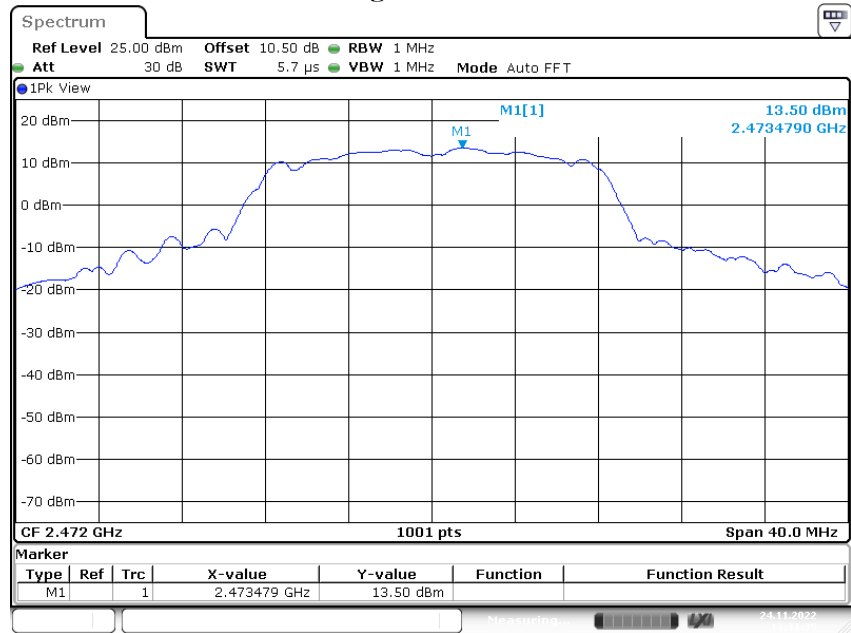


Date: 24.NOV.2022 13:38:05

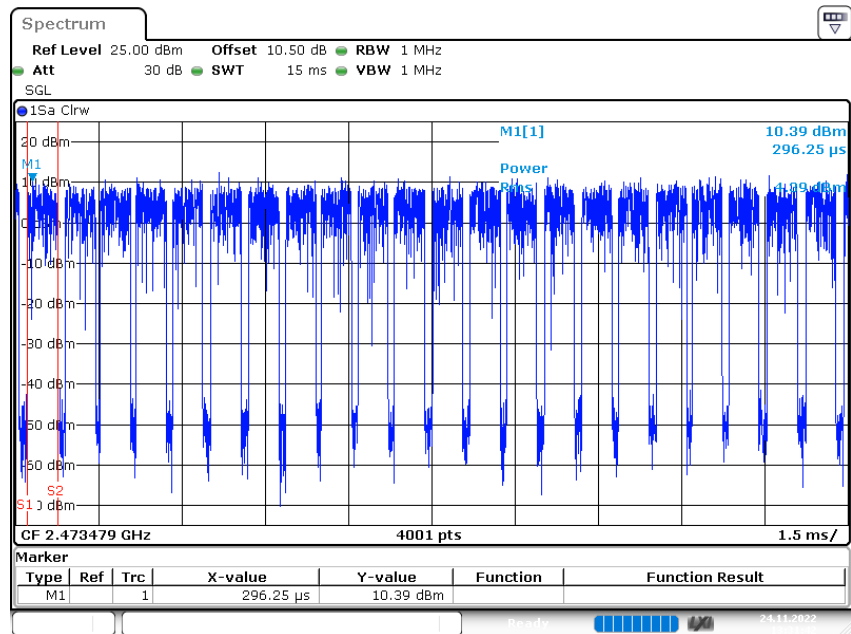


Date: 24.NOV.2022 13:38:12

11g_2472MHz

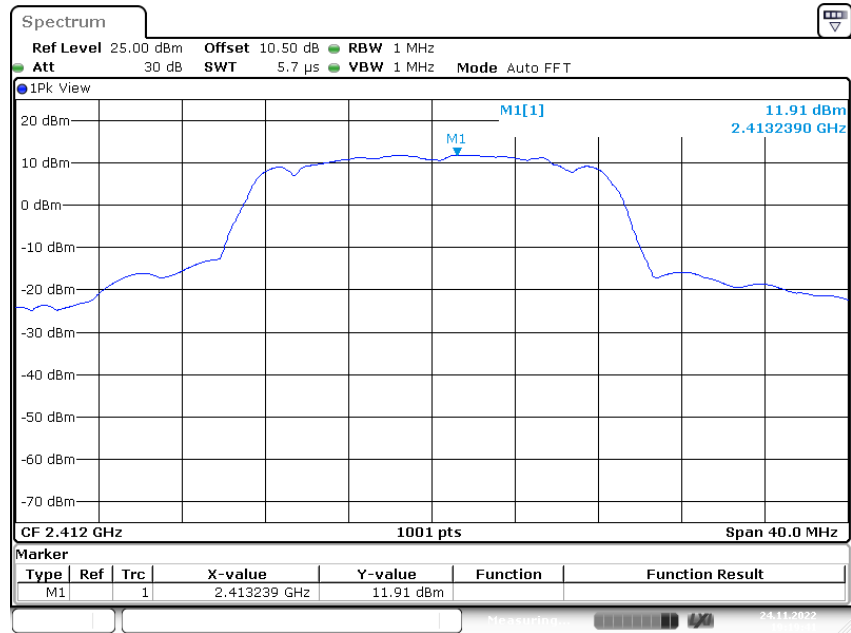


Date: 24.NOV.2022 13:31:36

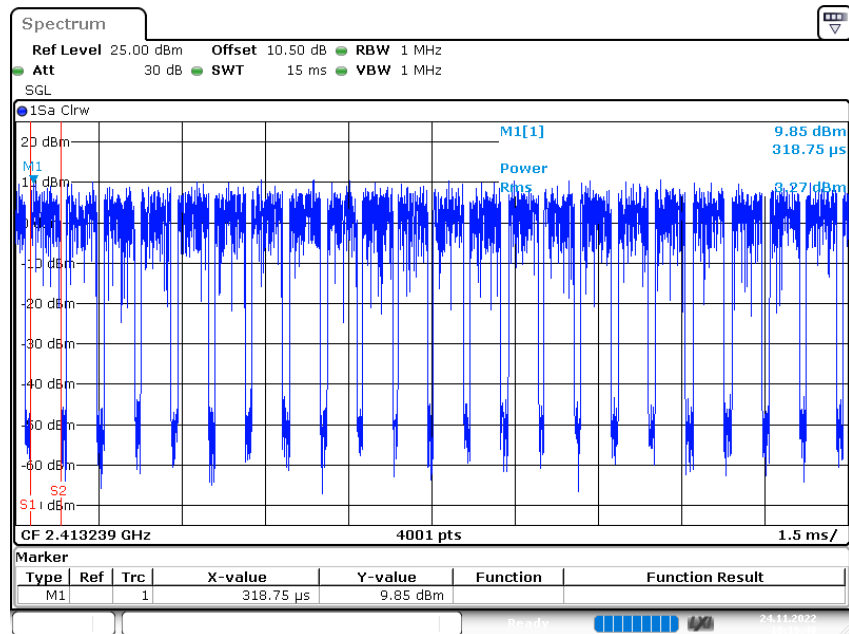


Date: 24.NOV.2022 13:31:43

11n-HT20_2412MHz

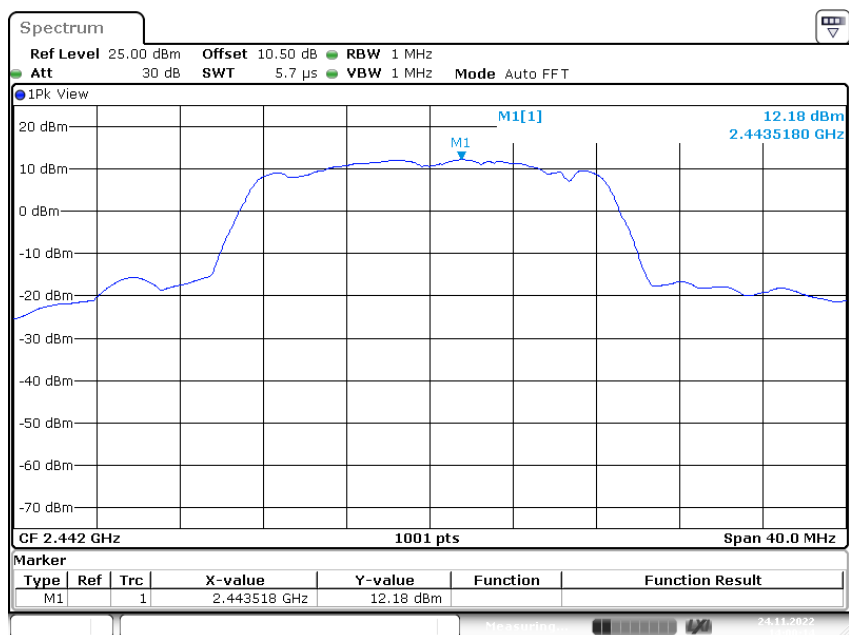


Date: 24.NOV.2022 19:19:41

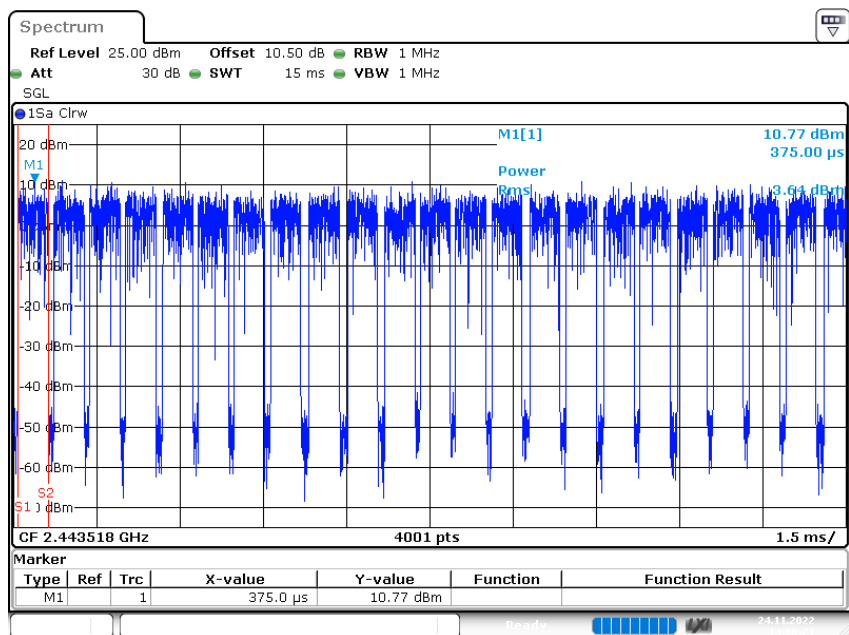


Date: 24.NOV.2022 19:19:47

11n-HT20_2442MHz

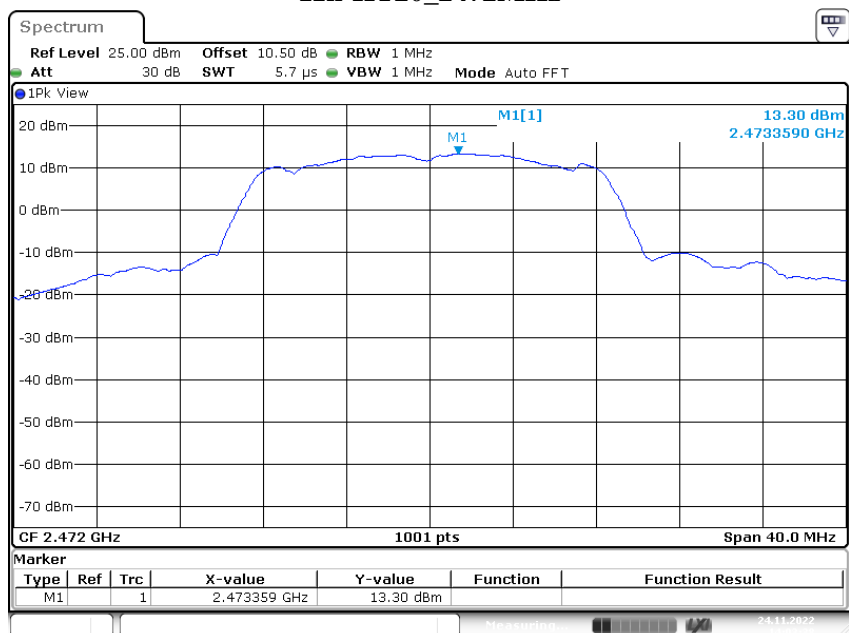


Date: 24.NOV.2022 14:00:15

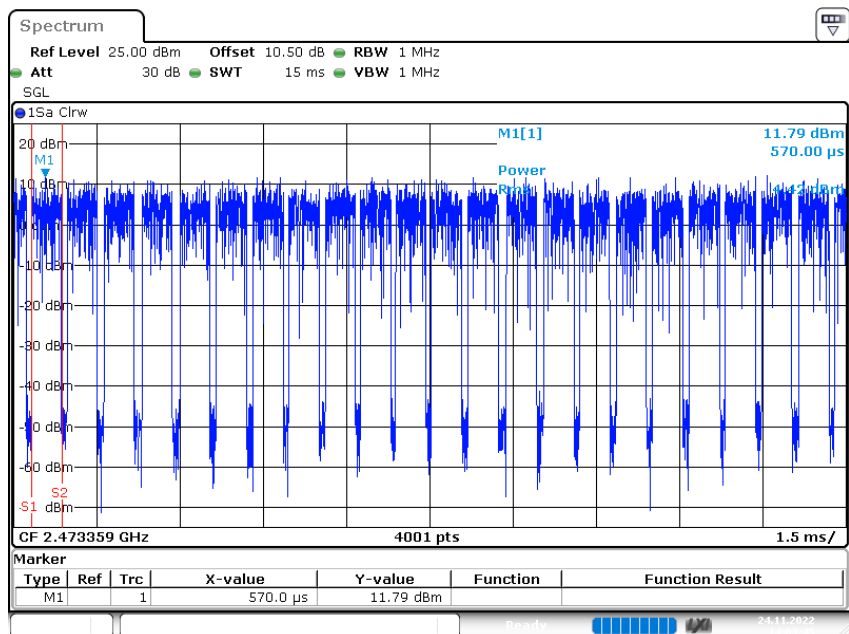


Date: 24.NOV.2022 14:00:22

11n-HT20_2472MHz



Date: 24.NOV.2022 14:03:39

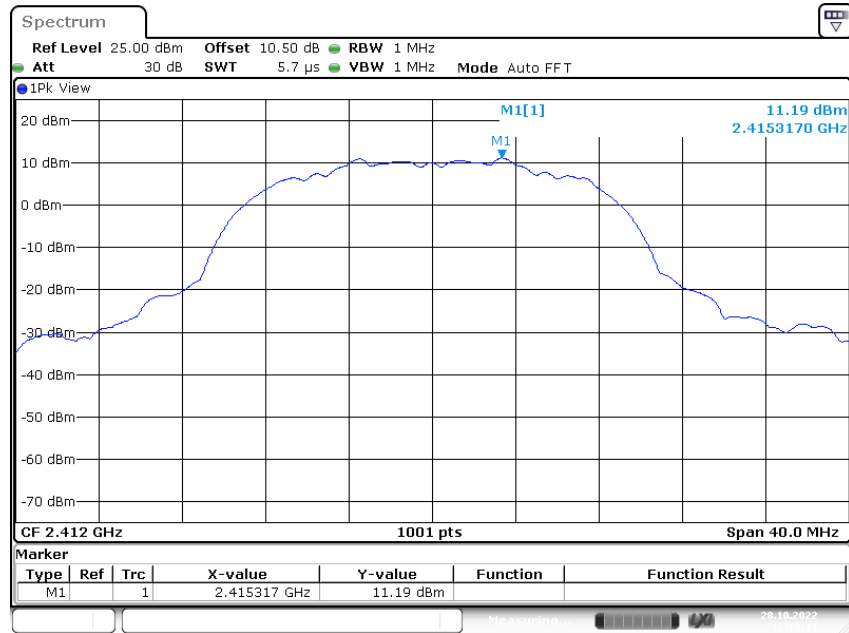


Date: 24.NOV.2022 14:03:46

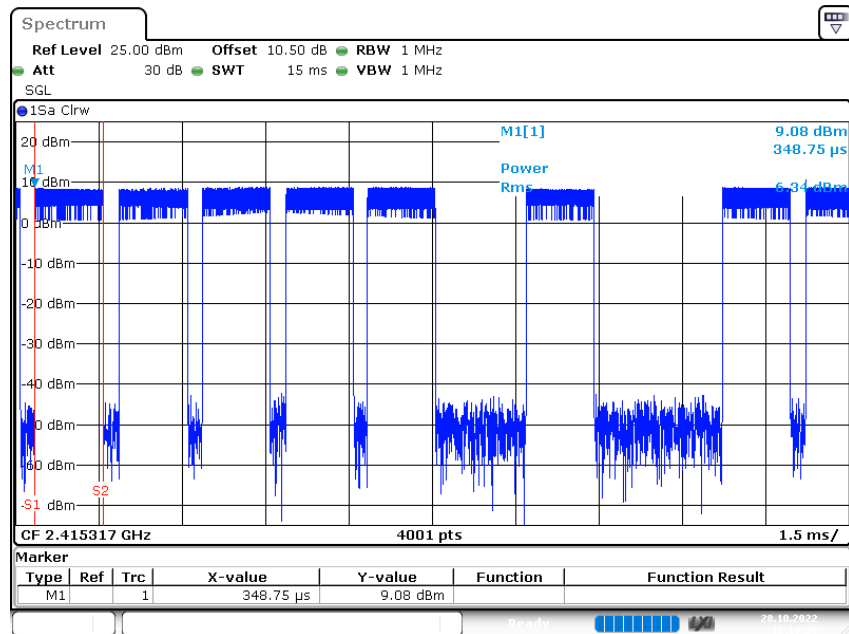
Low Voltage

For Model: Ai-WB2-12F

11b_2412MHz

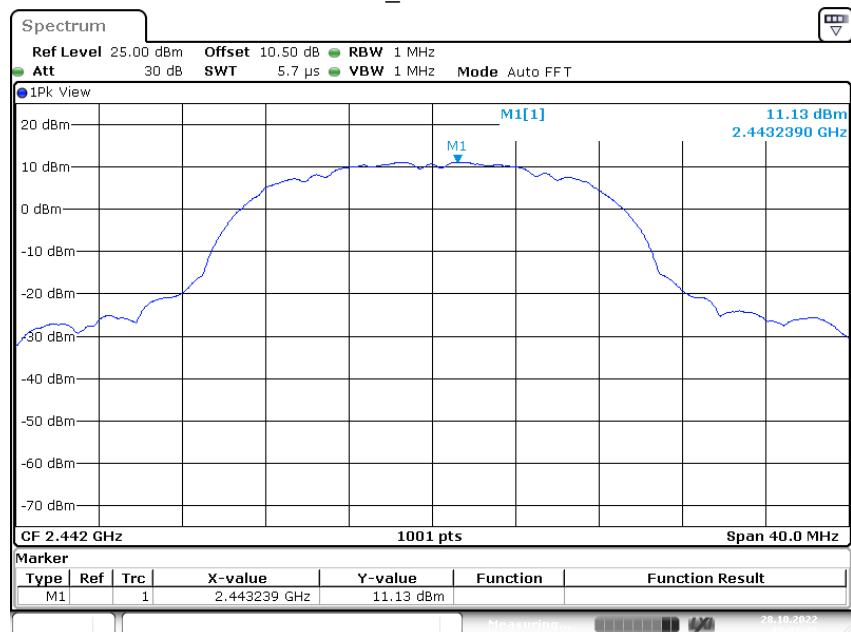


Date: 28.OCT.2022 12:18:13

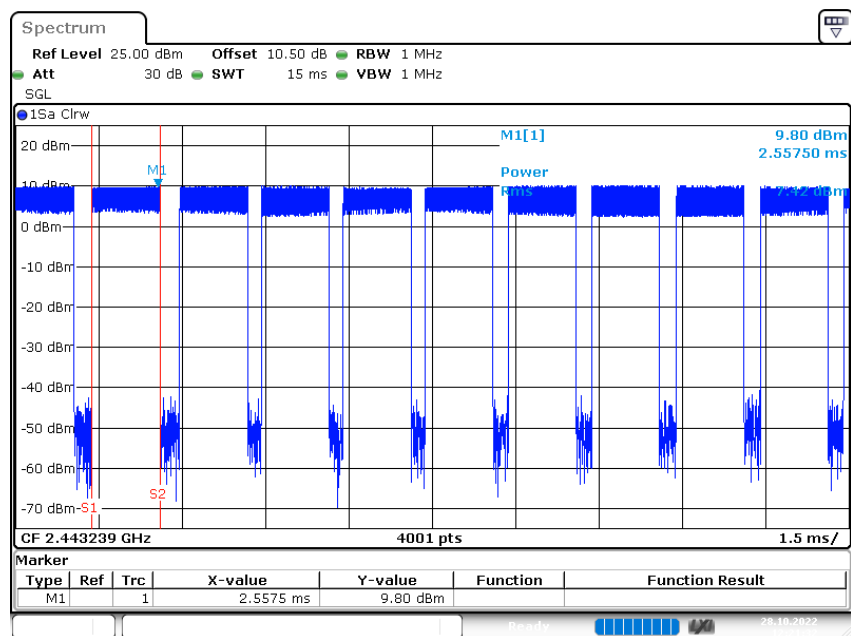


Date: 28.OCT.2022 12:18:20

11b_2442MHz

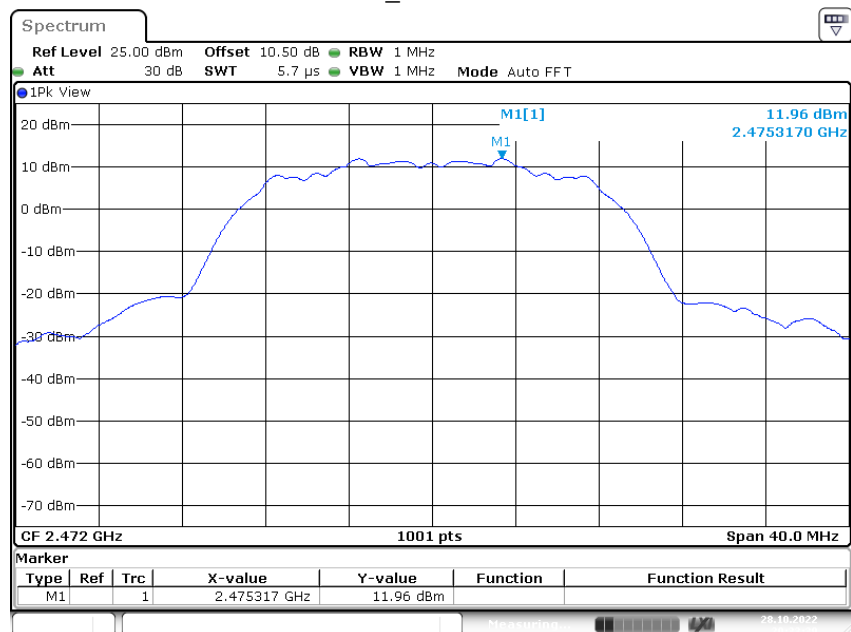


Date: 28.OCT.2022 12:21:24

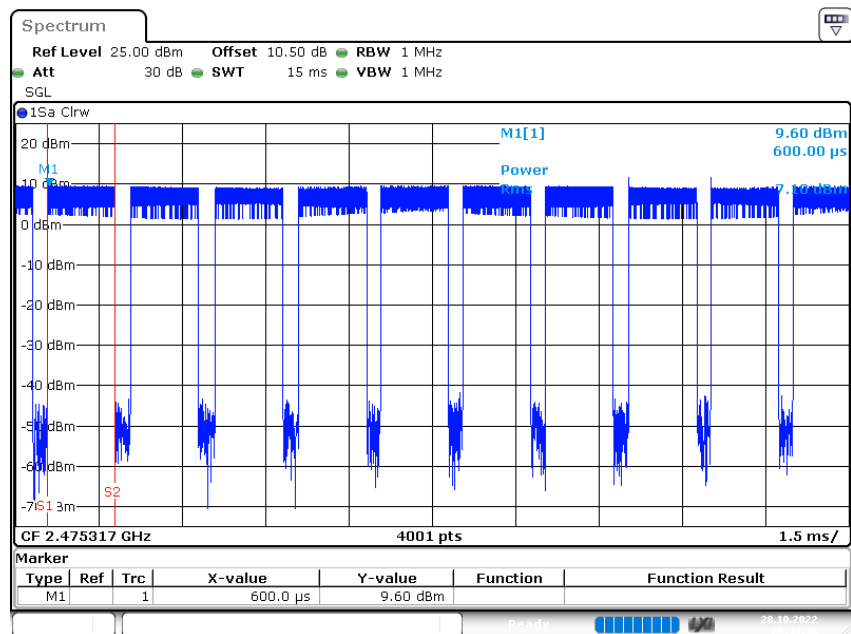


Date: 28.OCT.2022 12:21:32

11b_2472MHz

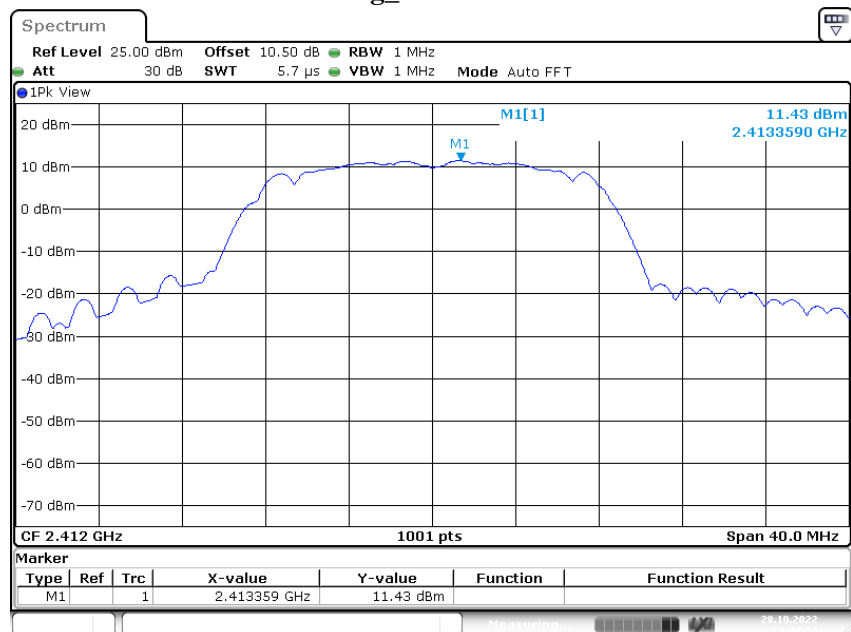


Date: 28.OCT.2022 20:33:39

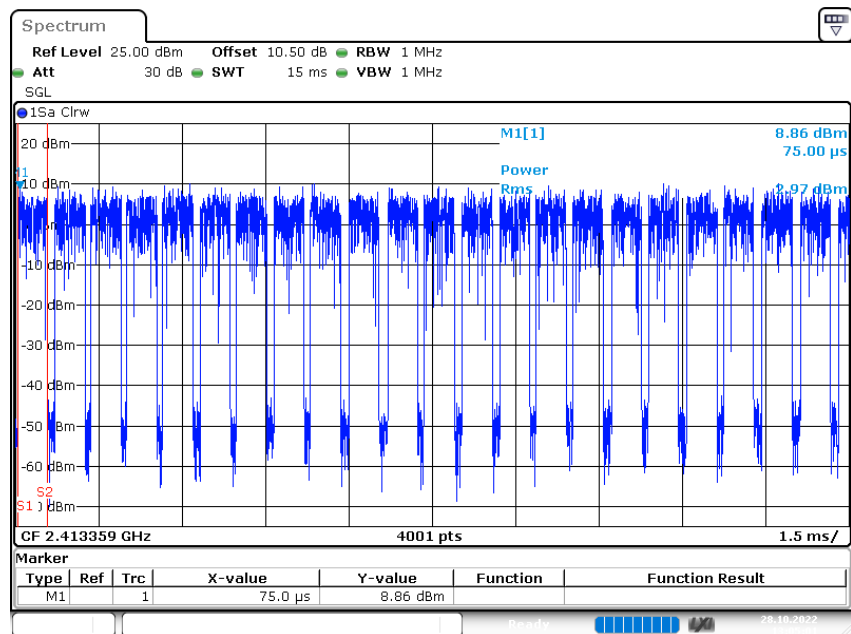


Date: 28.OCT.2022 20:33:46

11g_2412MHz

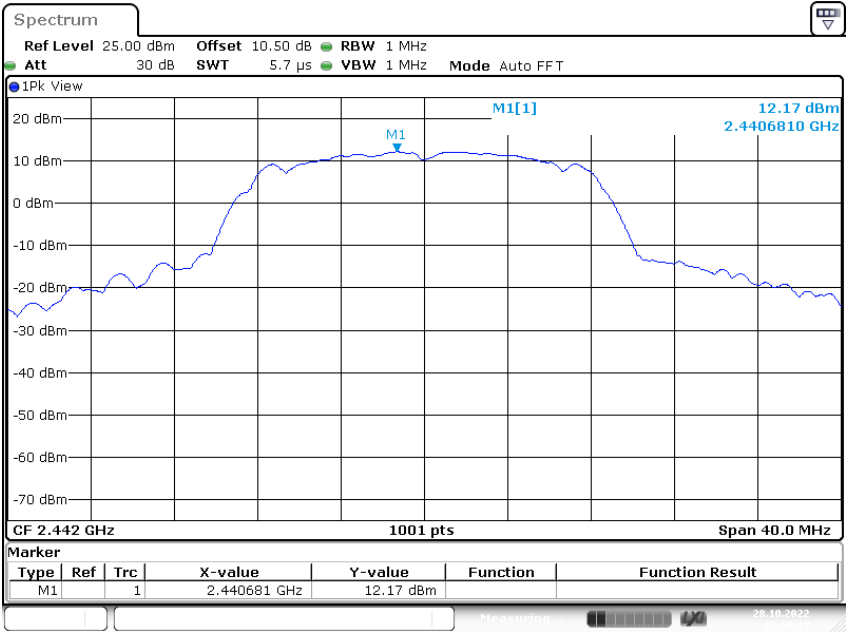


Date: 28.OCT.2022 13:04:54

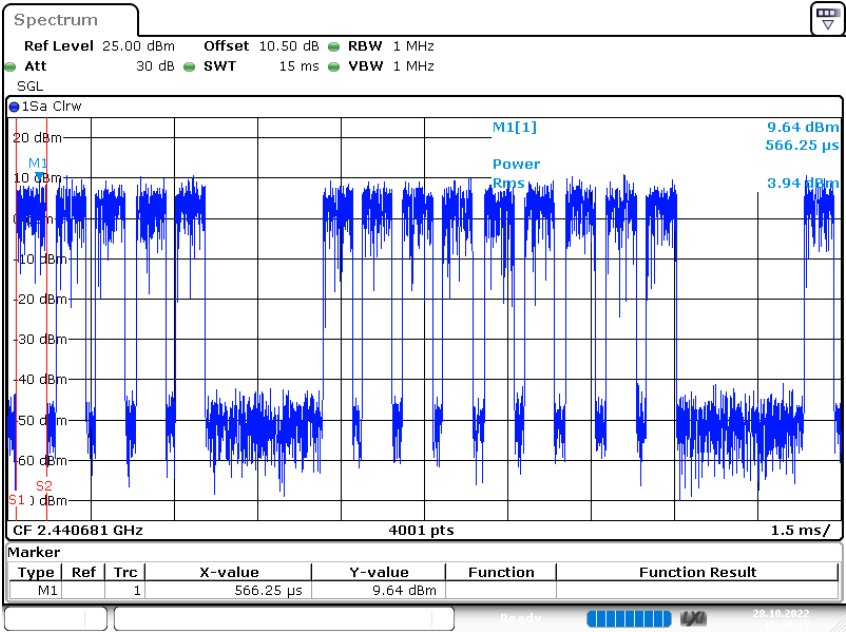


Date: 28.OCT.2022 13:05:02

11g_2442MHz

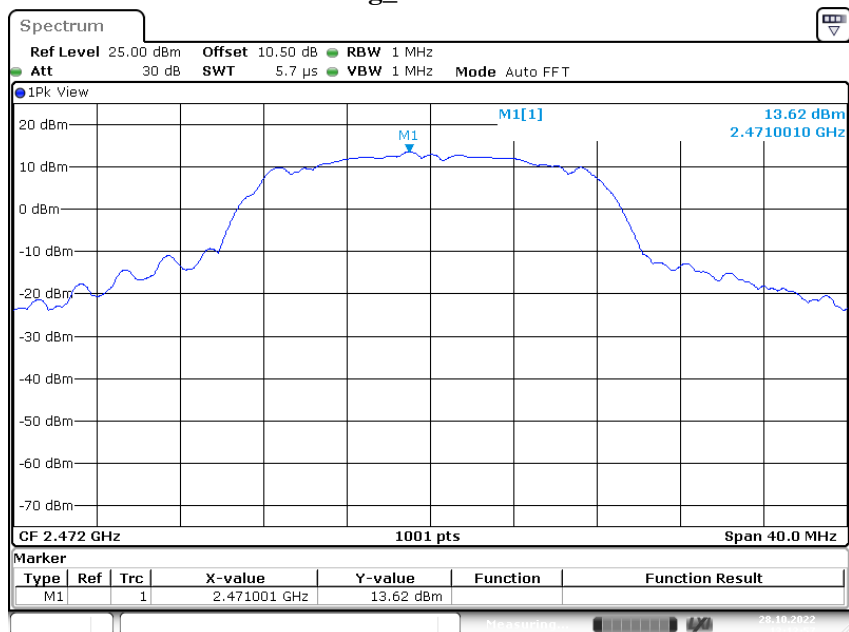


Date: 28.OCT.2022 13:09:19

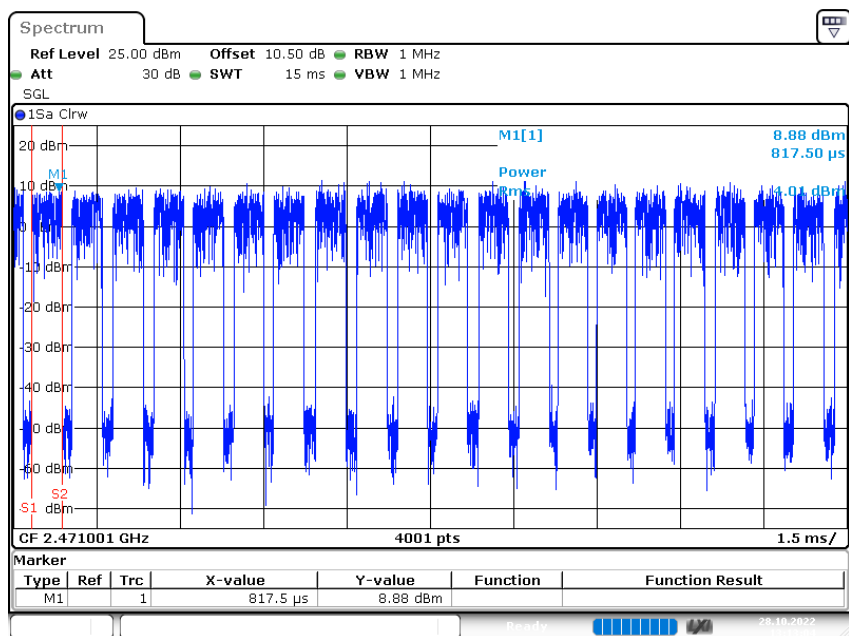


Date: 28.OCT.2022 13:09:26

11g_2472MHz

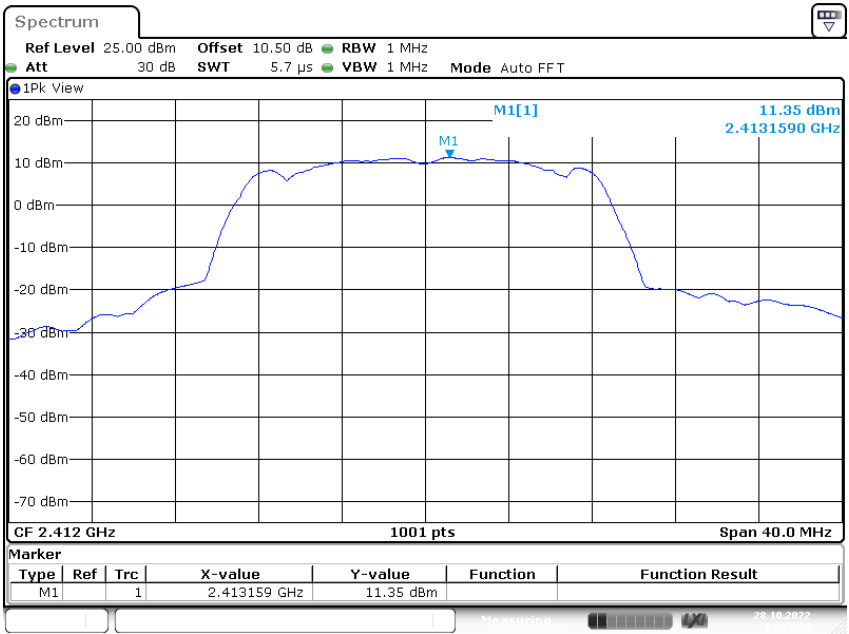


Date: 28.OCT.2022 13:12:57

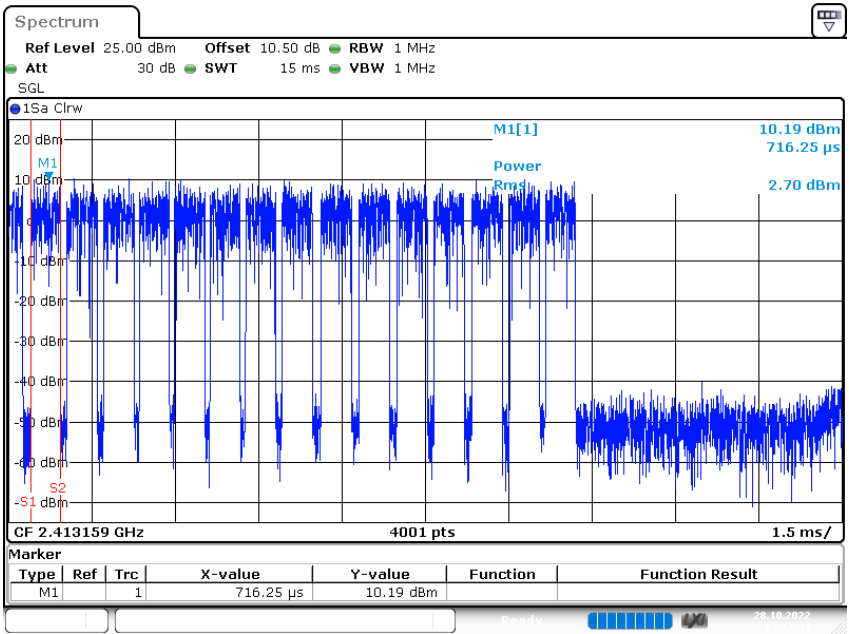


Date: 28.OCT.2022 13:13:04

11n-HT20_2412MHz

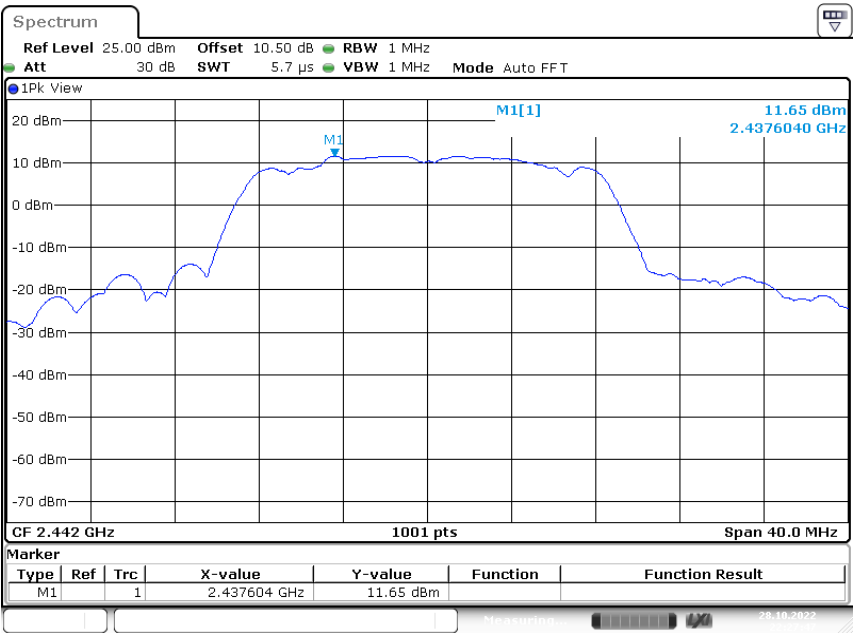


Date: 28.OCT.2022 13:17:36

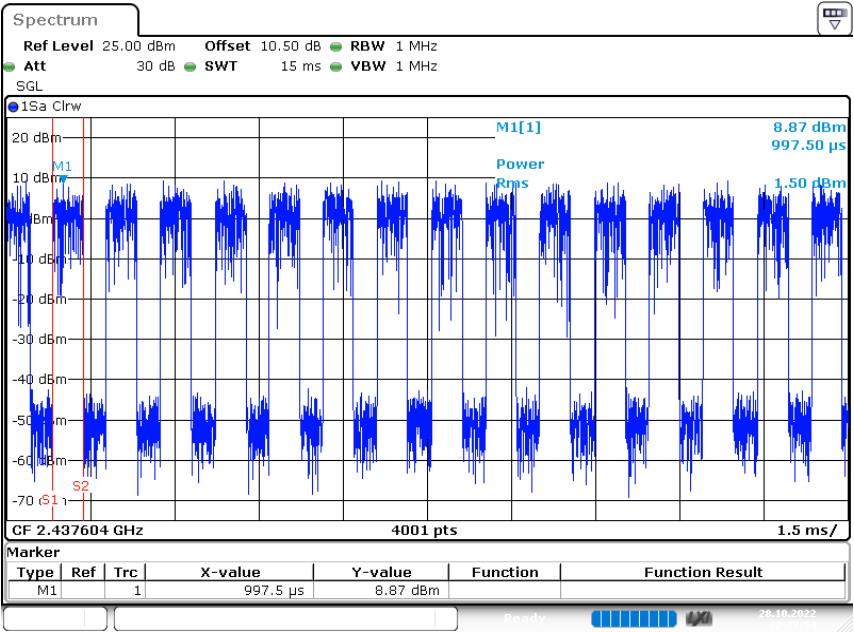


Date: 28.OCT.2022 13:17:43

11n-HT20_2442MHz

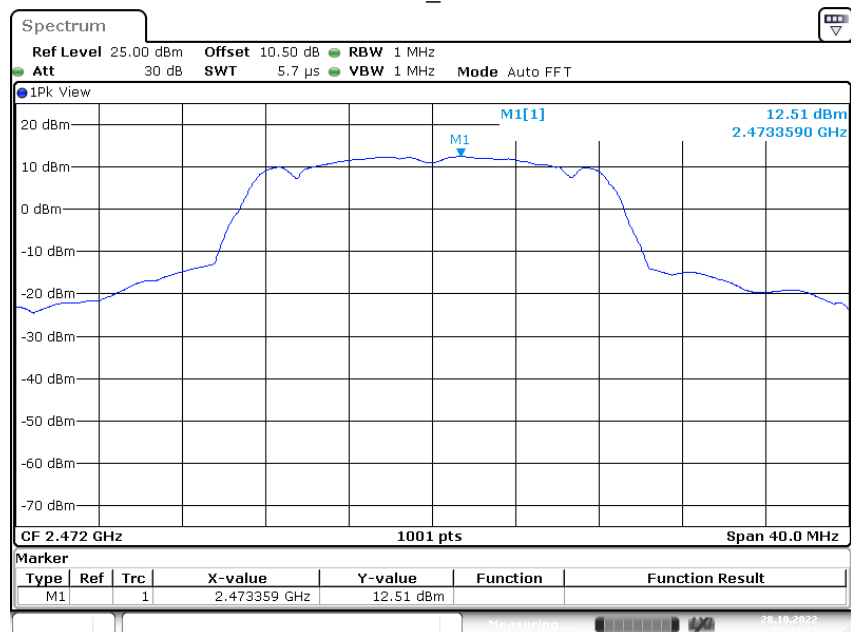


Date: 28.OCT.2022 22:27:48

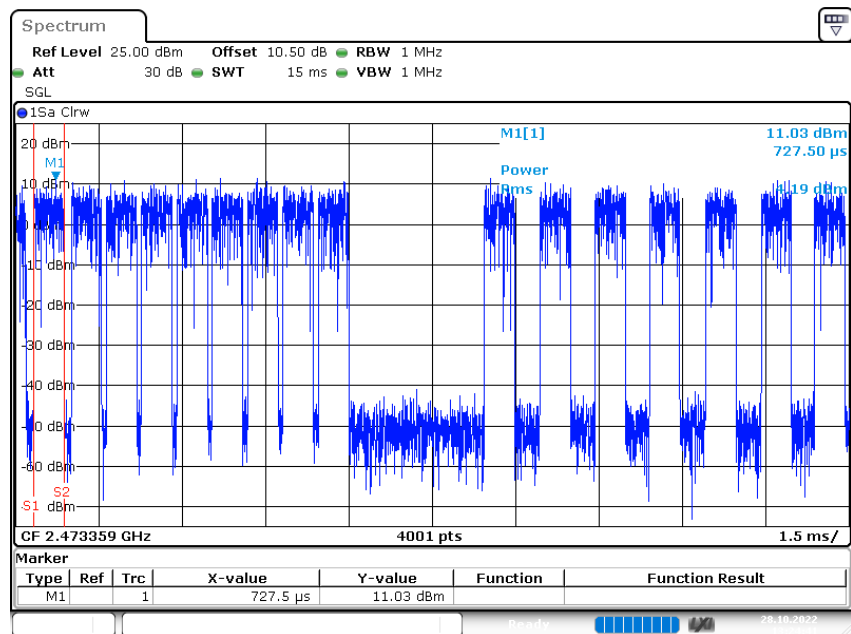


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11n-HT20_2472MHz



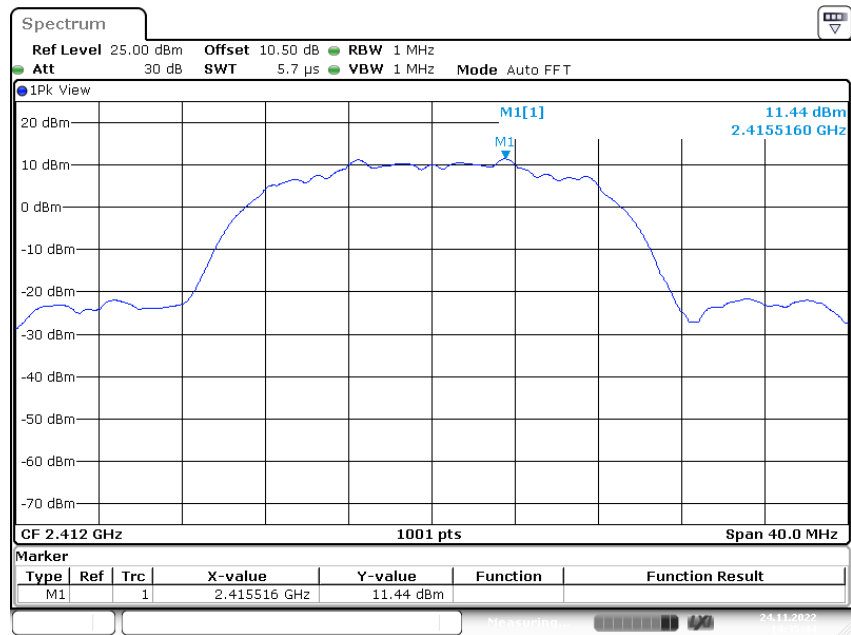
Date: 28.OCT.2022 13:24:34



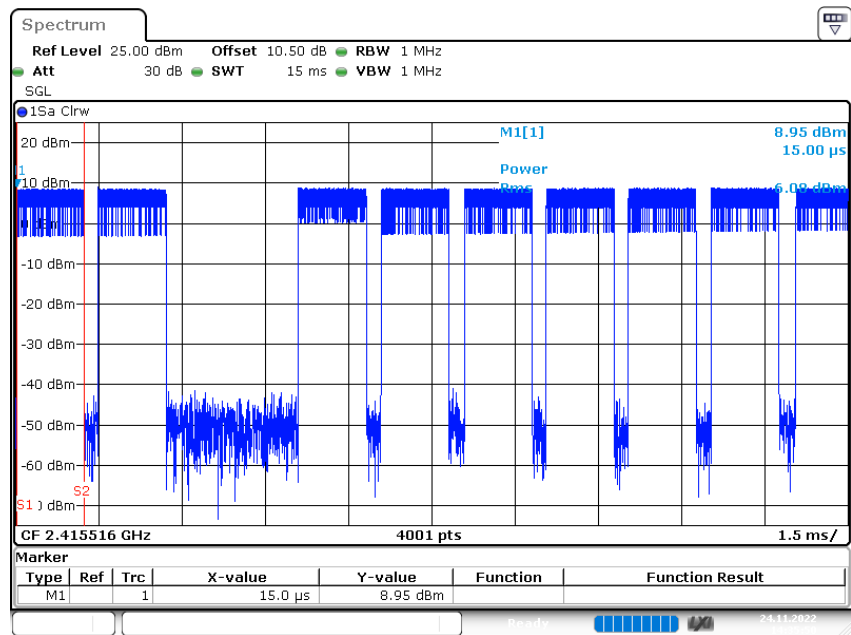
Date: 28.OCT.2022 13:24:42

For Model: Ai-WB2-12S

11b_2412MHz

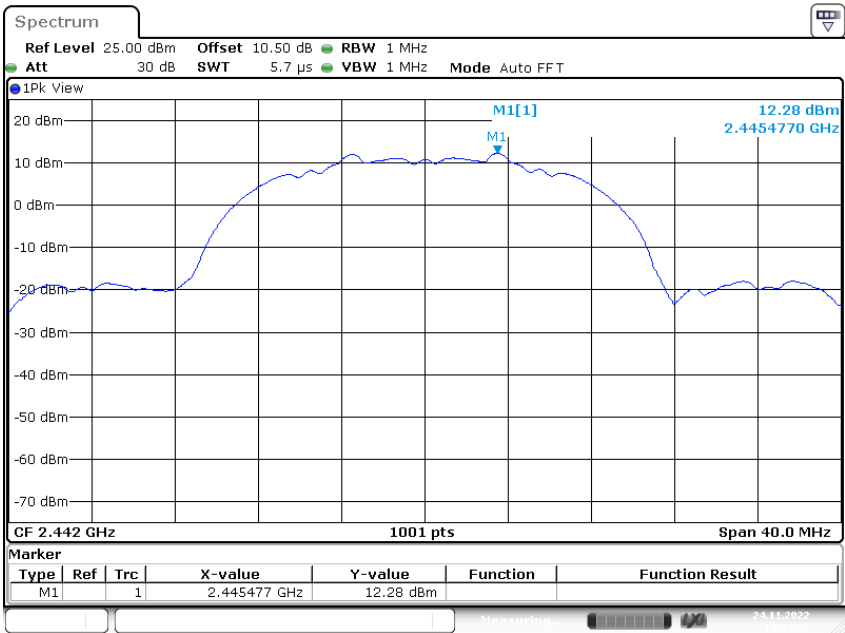


Date: 24.NOV.2022 14:35:44

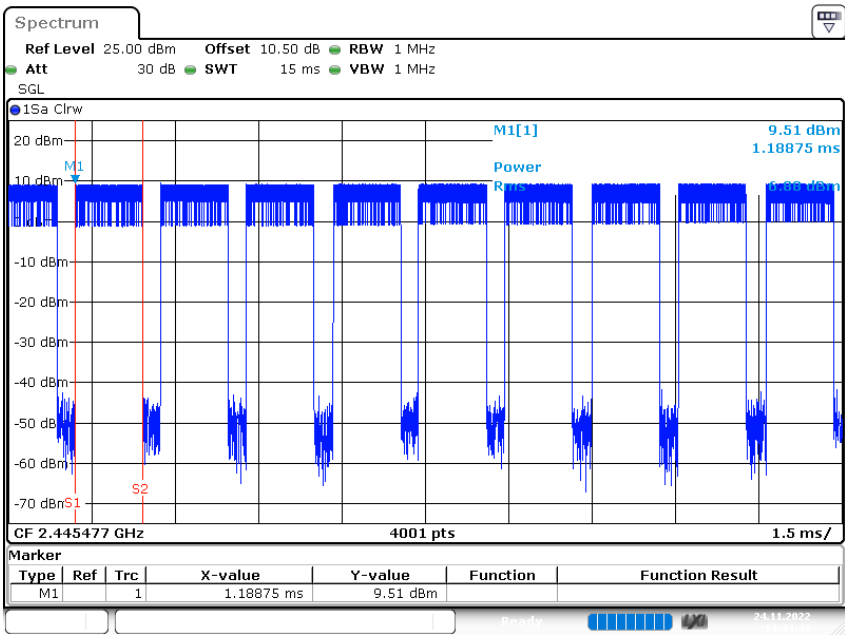


Date: 24.NOV.2022 14:35:51

11b_2442MHz

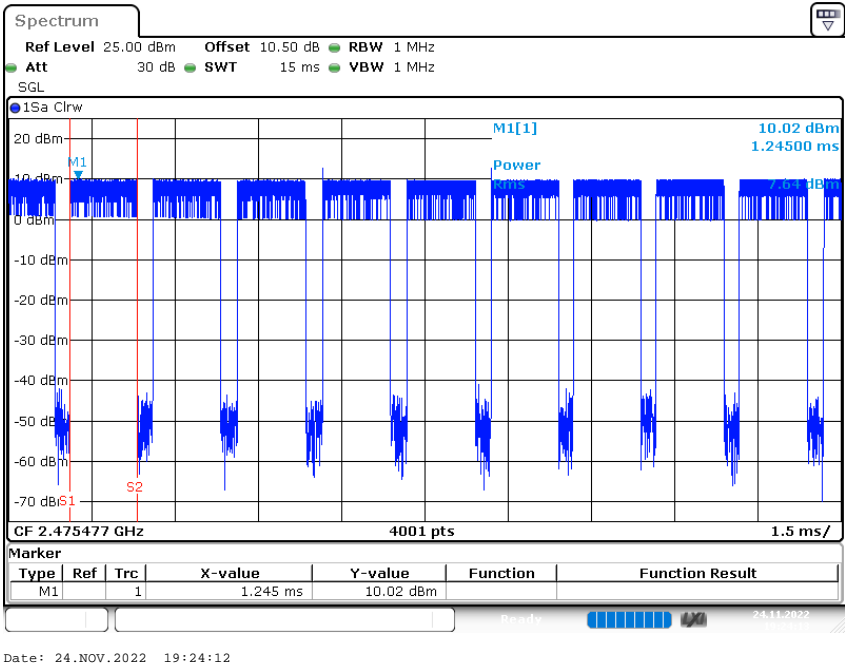
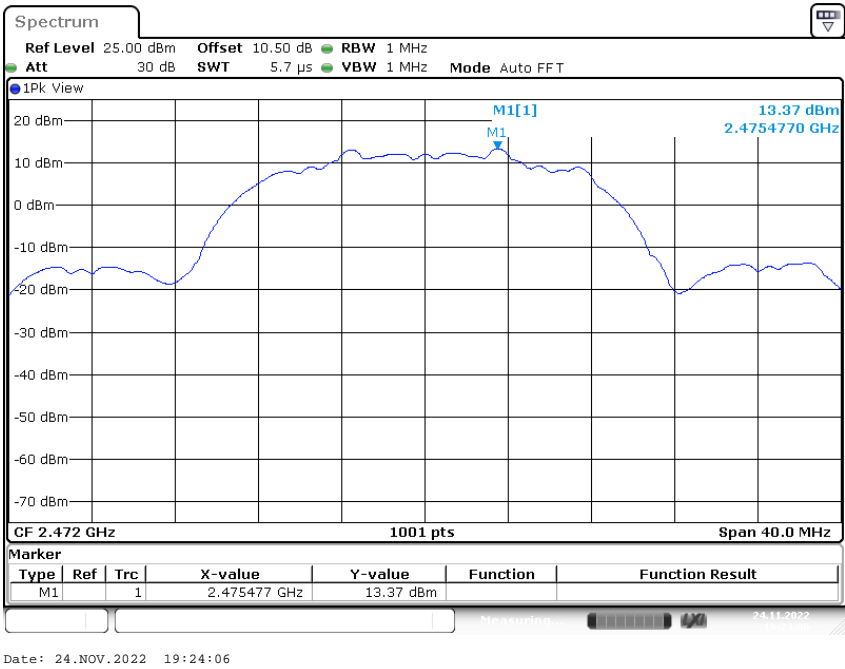


Date: 24.NOV.2022 14:44:42

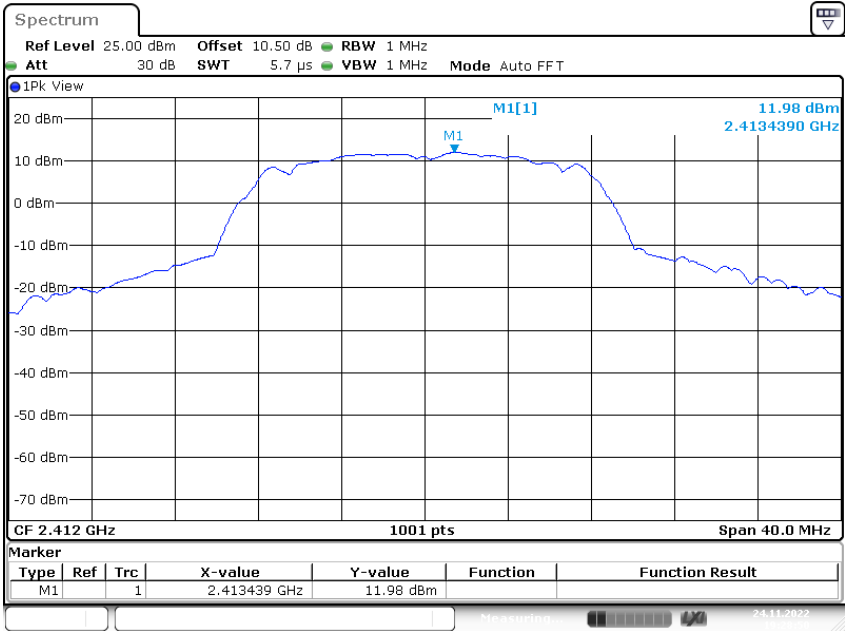


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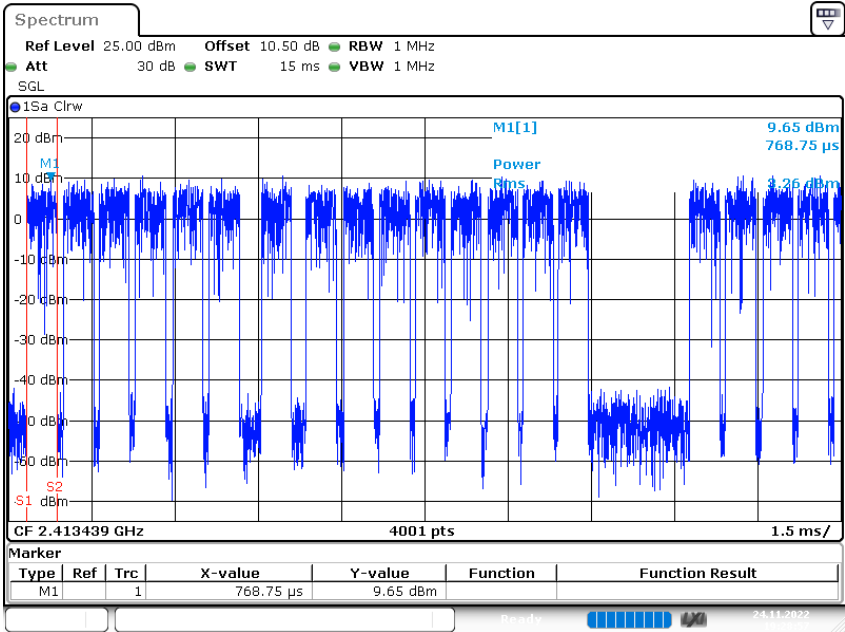
11b_2472MHz



11g_2412MHz

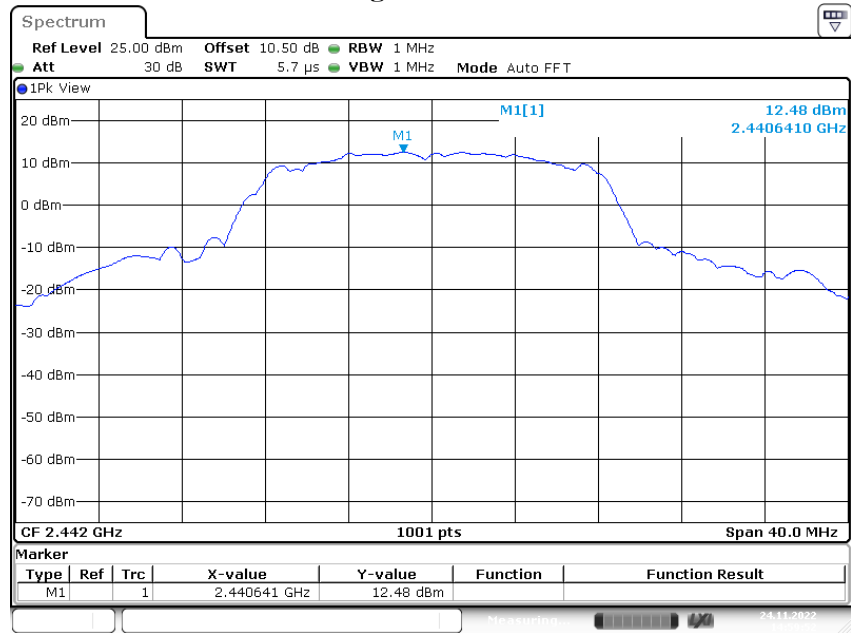


Date: 24.NOV.2022 19:28:50

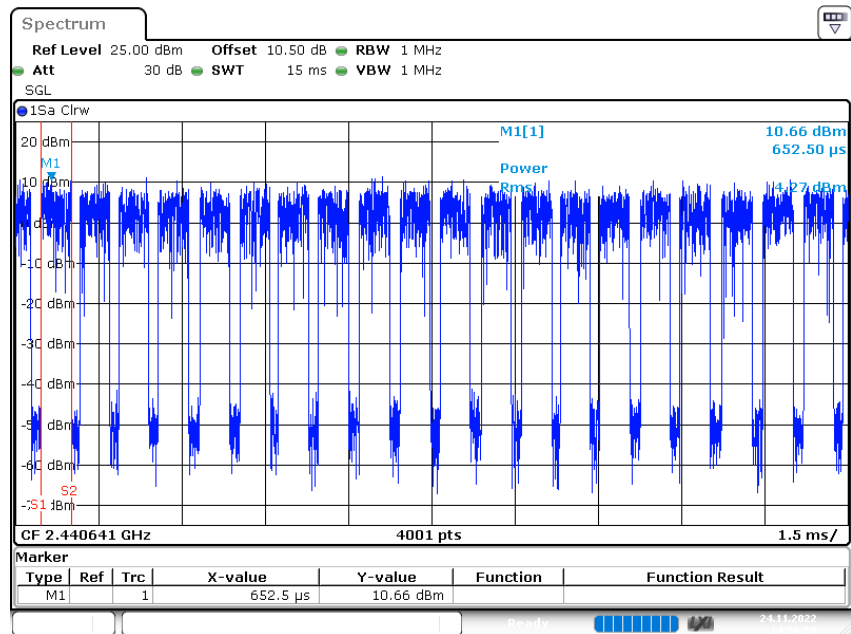


Date: 24.NOV.2022 19:28:57

11g_2442MHz

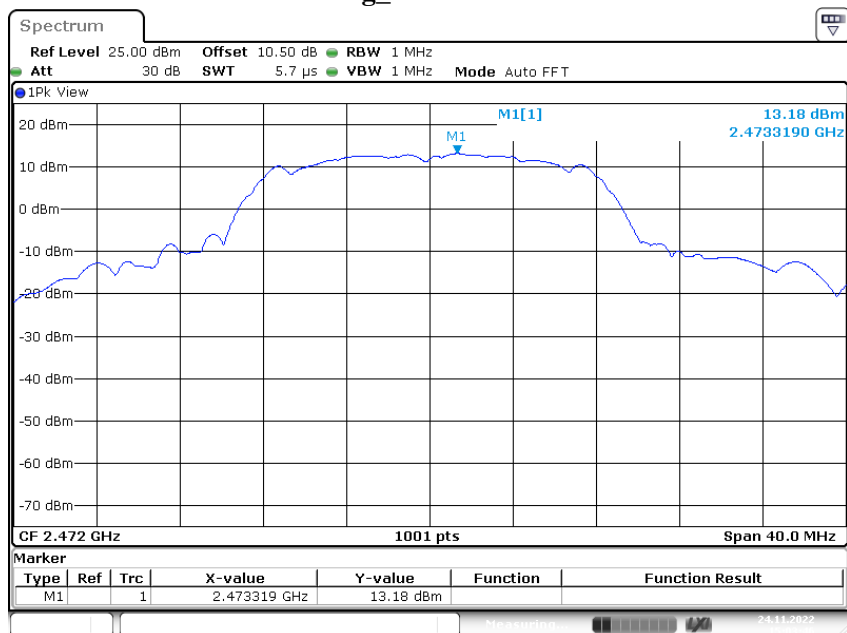


Date: 24.NOV.2022 14:59:52

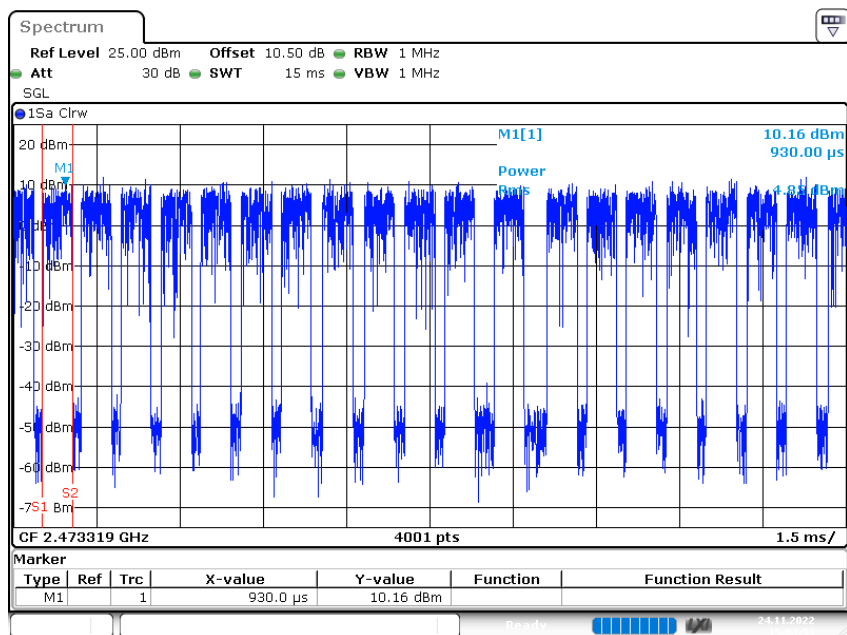


Date: 24.NOV.2022 14:59:59

1g_2472MHz

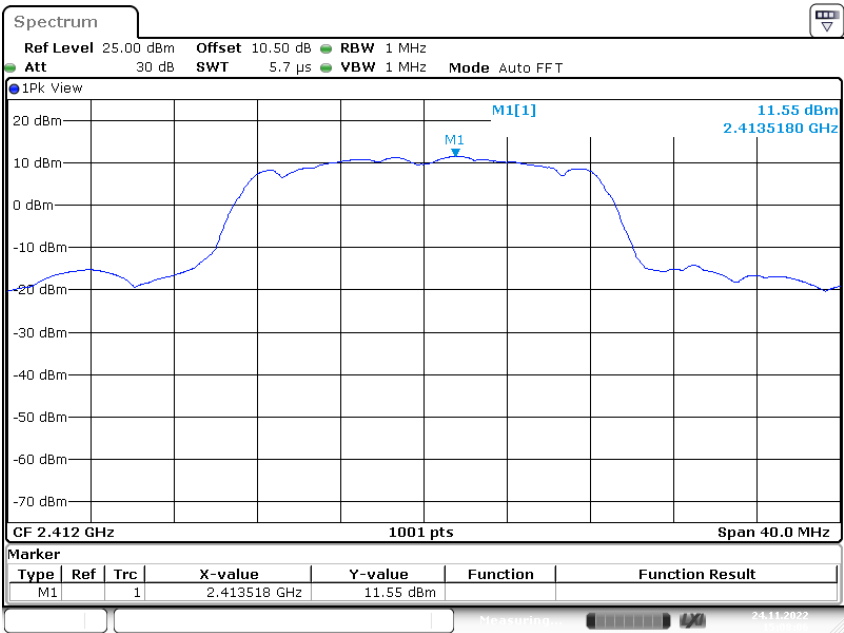


Date: 24.NOV.2022 15:03:46

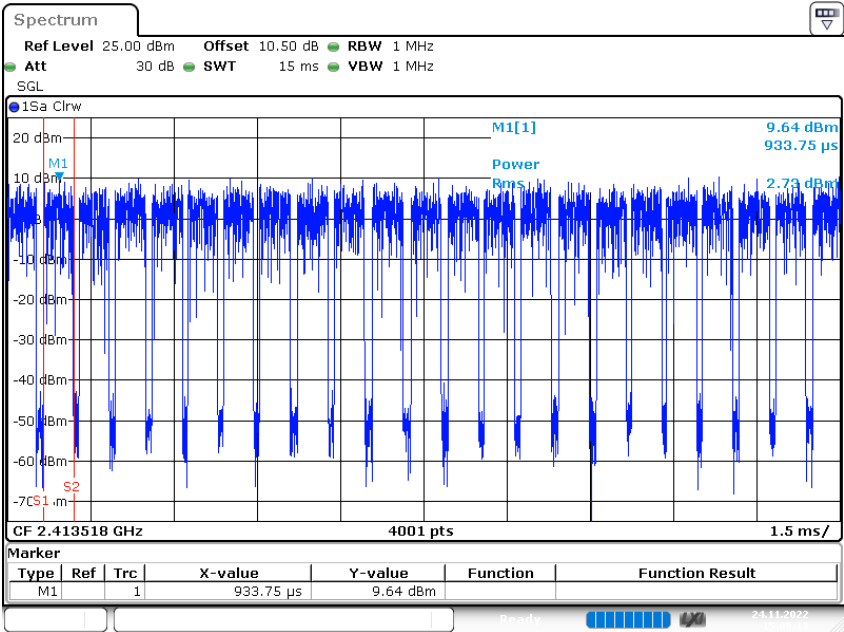


Date: 24.NOV.2022 15:03:53

11n-HT20_2412MHz

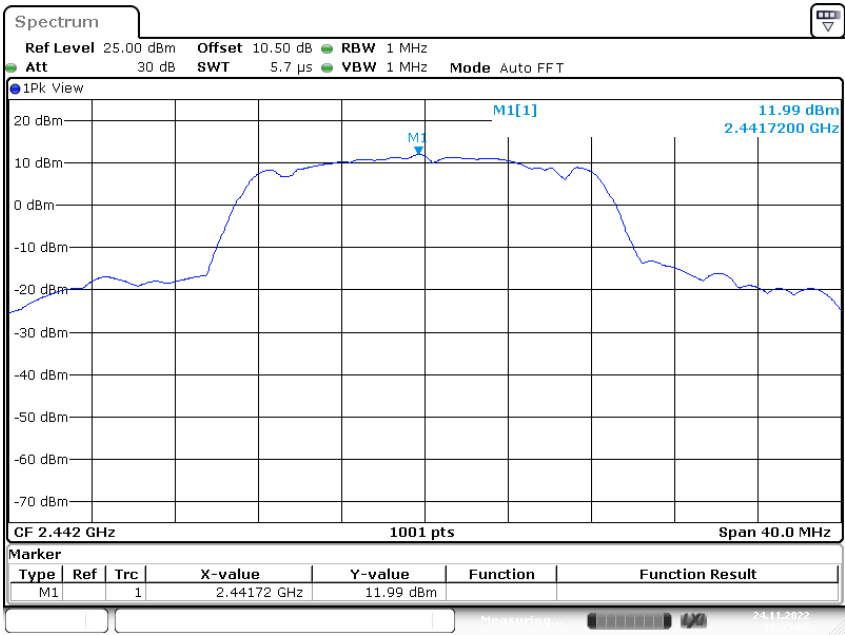


Date: 24.NOV.2022 15:08:06

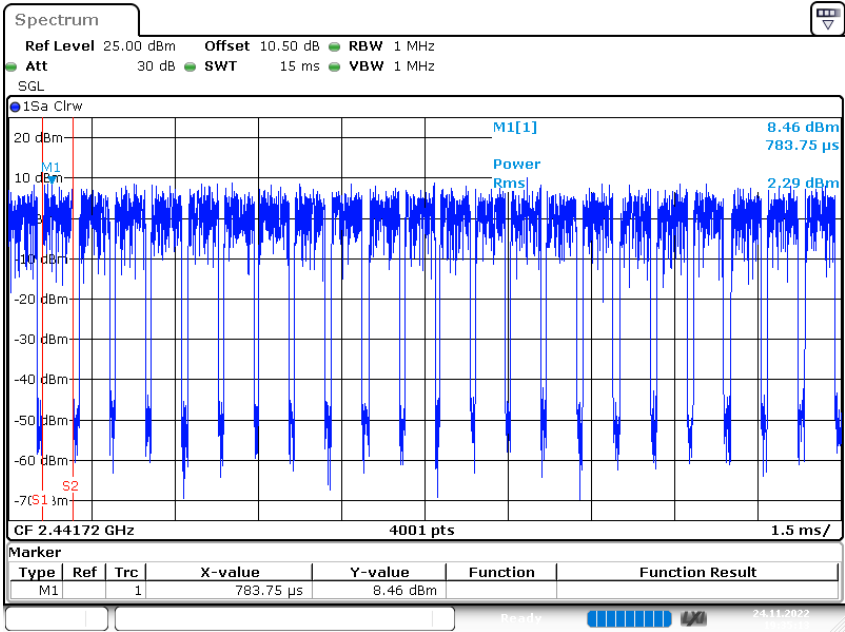


Date: 24.NOV.2022 15:08:13

11n-HT20_2442MHz

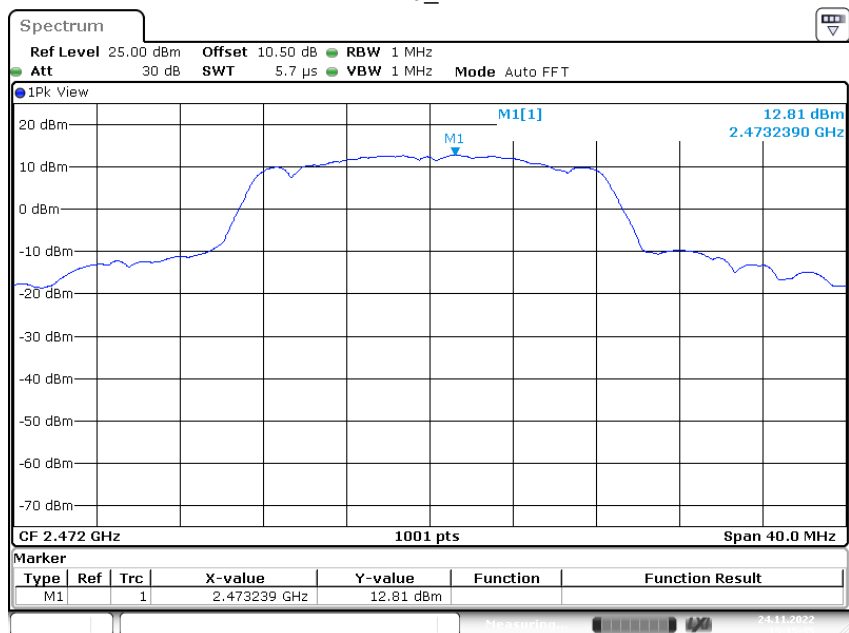


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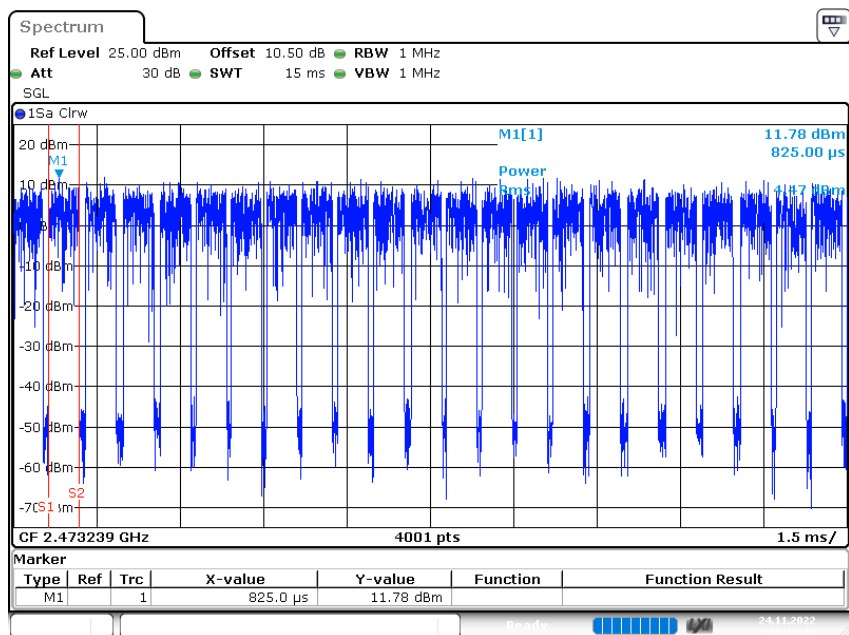


Date: 24.NOV.2022 19:35:13

11n-HT20_2472MHz

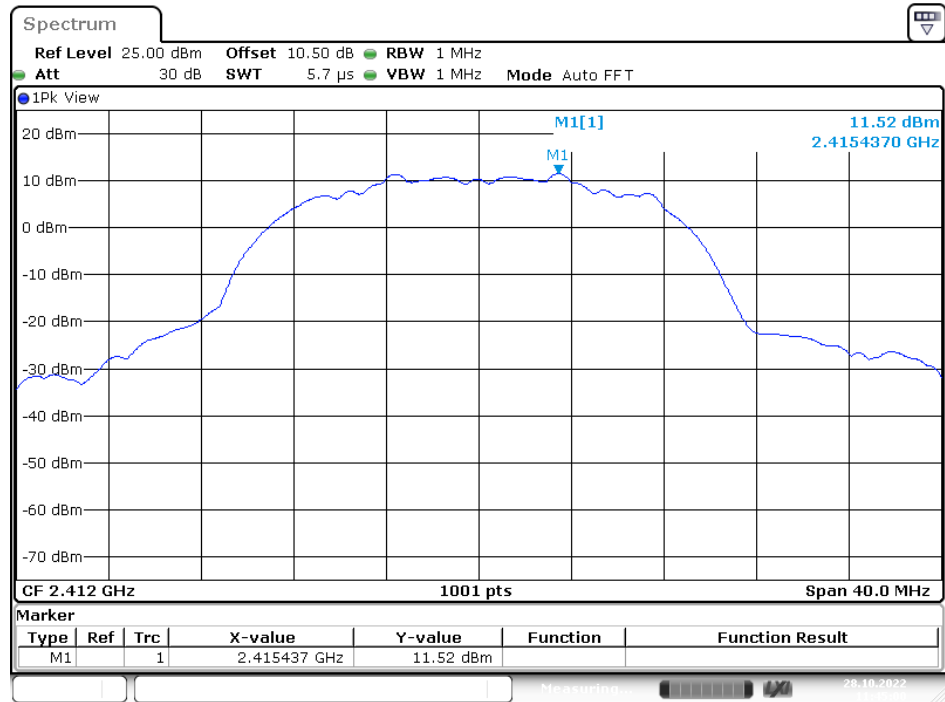


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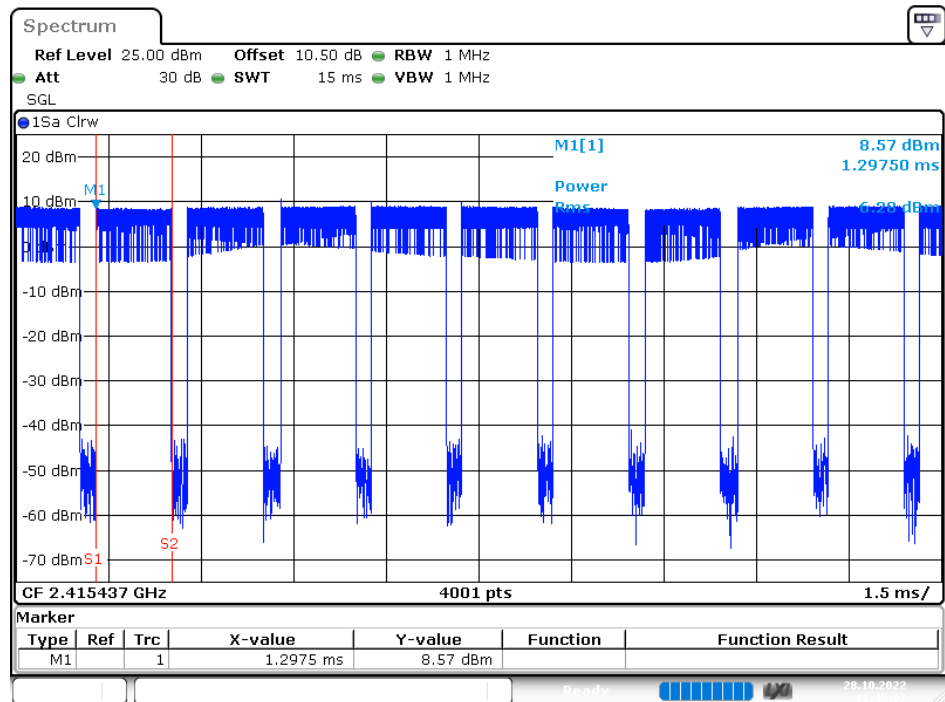


Date: 24.NOV.2022 15:15:42

High Voltage
For Model: Ai-WB2-12F

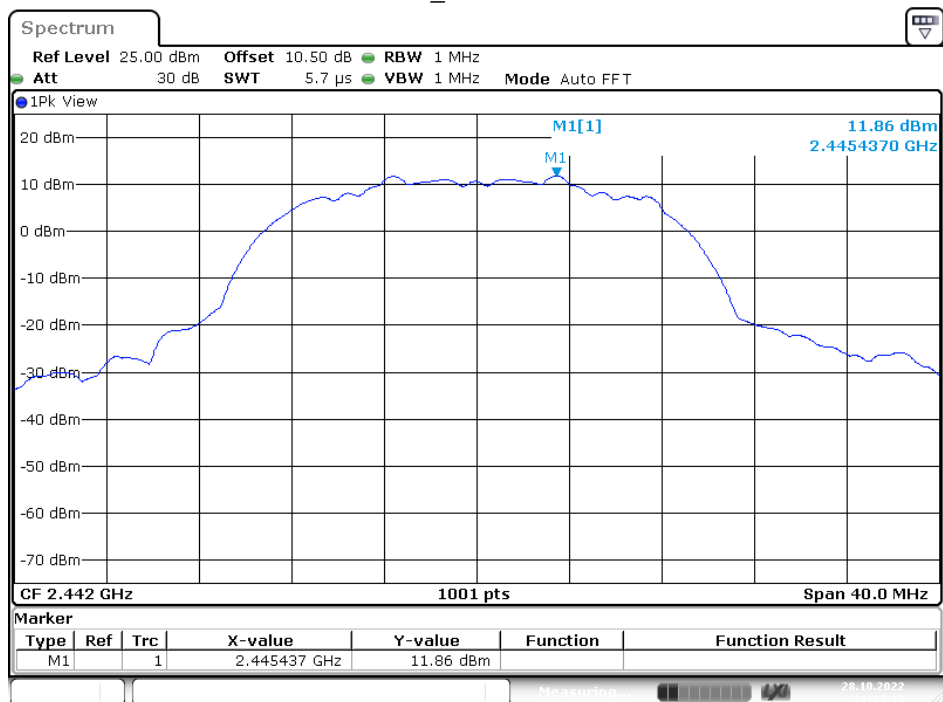
11b_2412MHz

Date: 28.OCT.2022 11:45:00

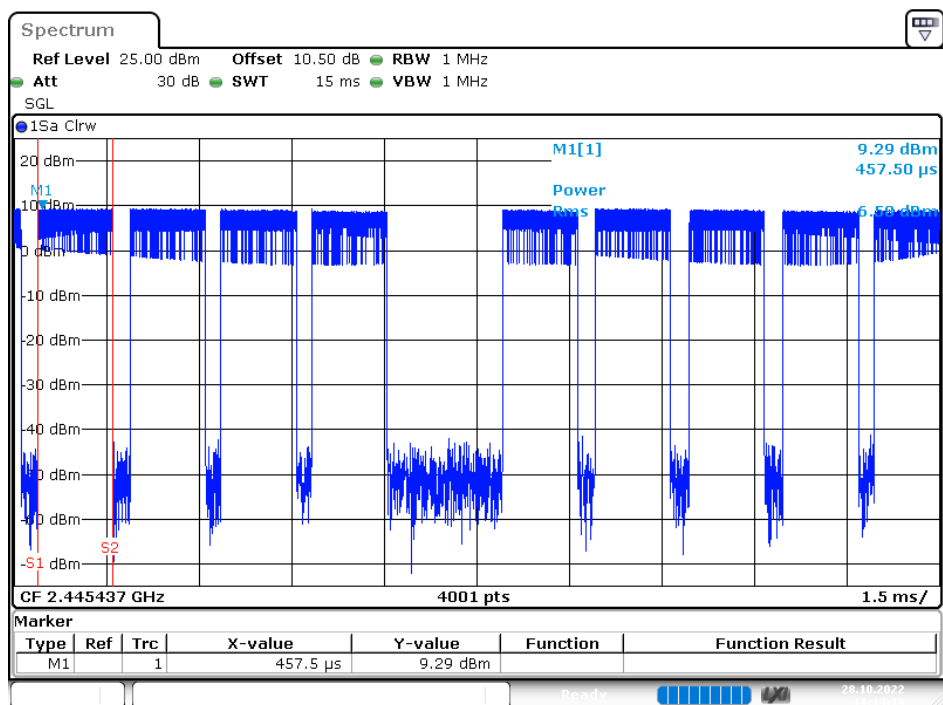


Date: 28.OCT.2022 11:45:07

11b_2442MHz

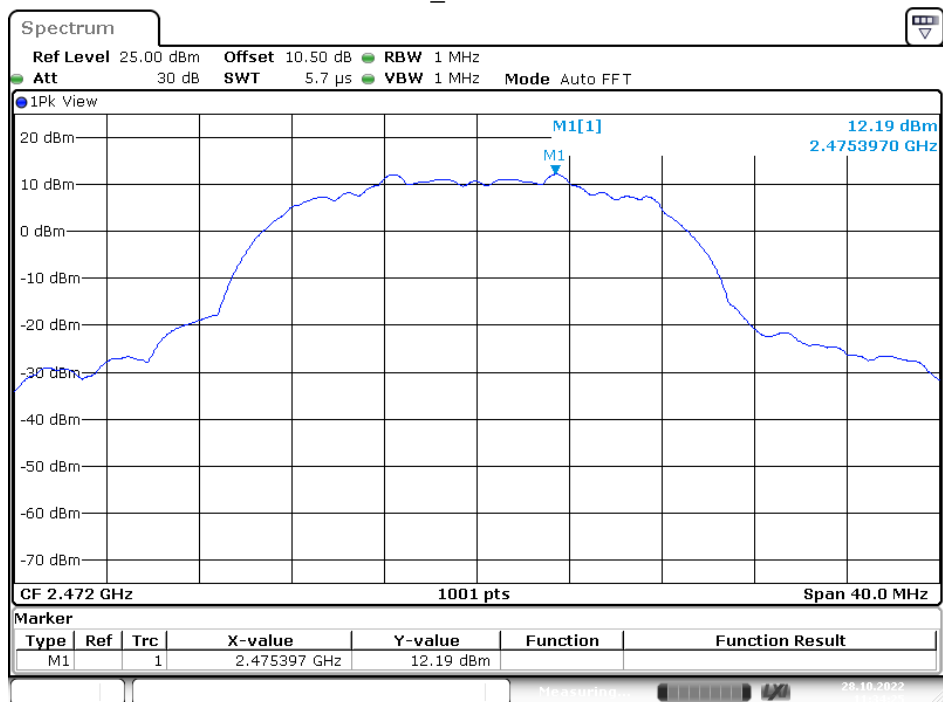


Date: 28.OCT.2022 11:14:12

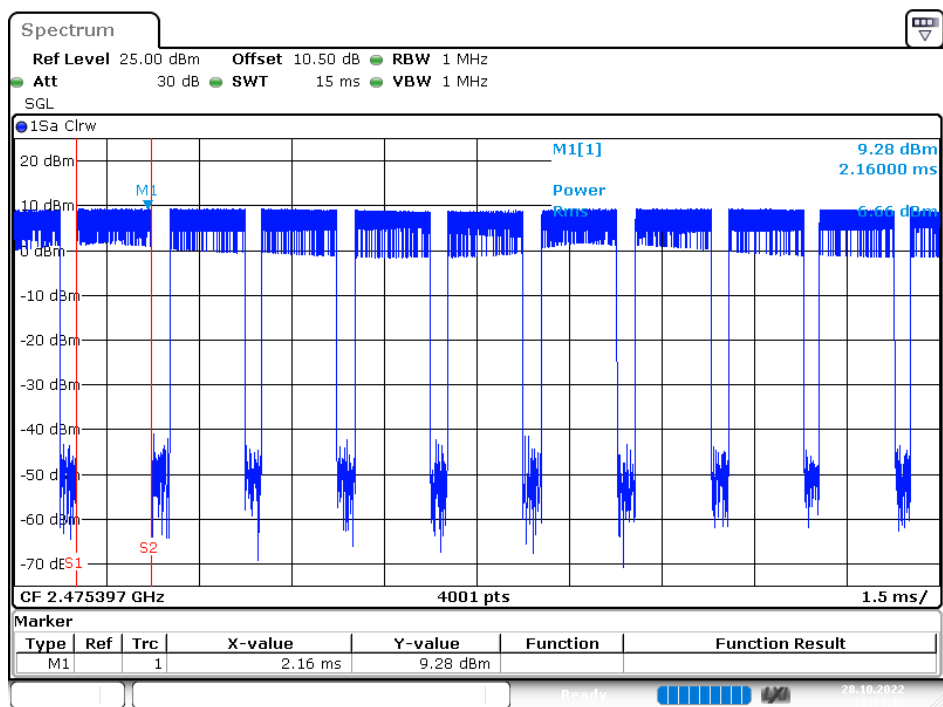


Date: 28.OCT.2022 11:14:19

11b_2472MHz

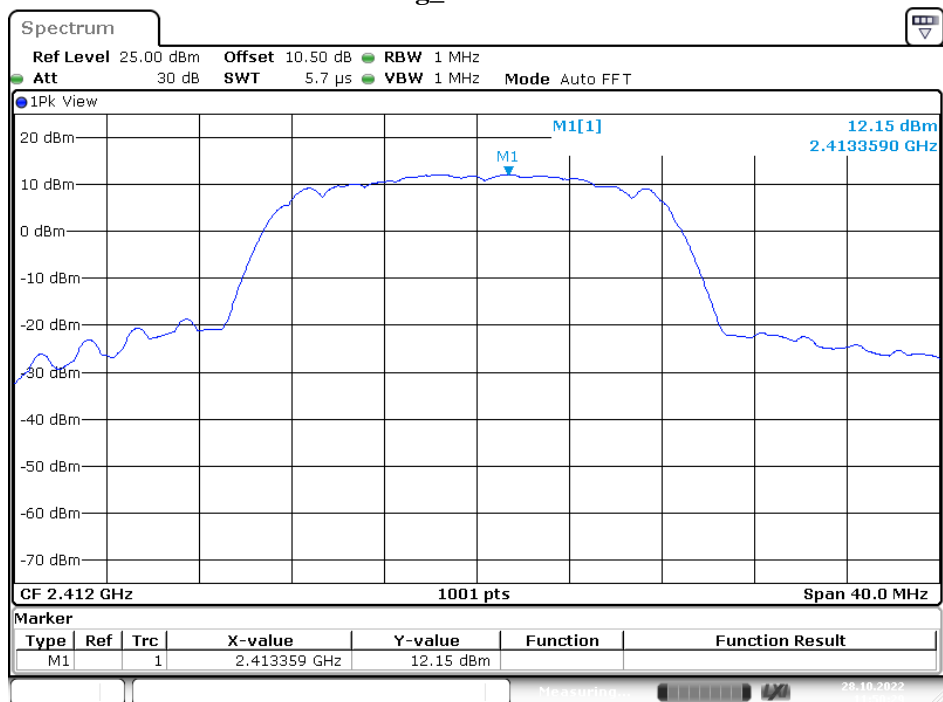


Date: 28.OCT.2022 11:34:25

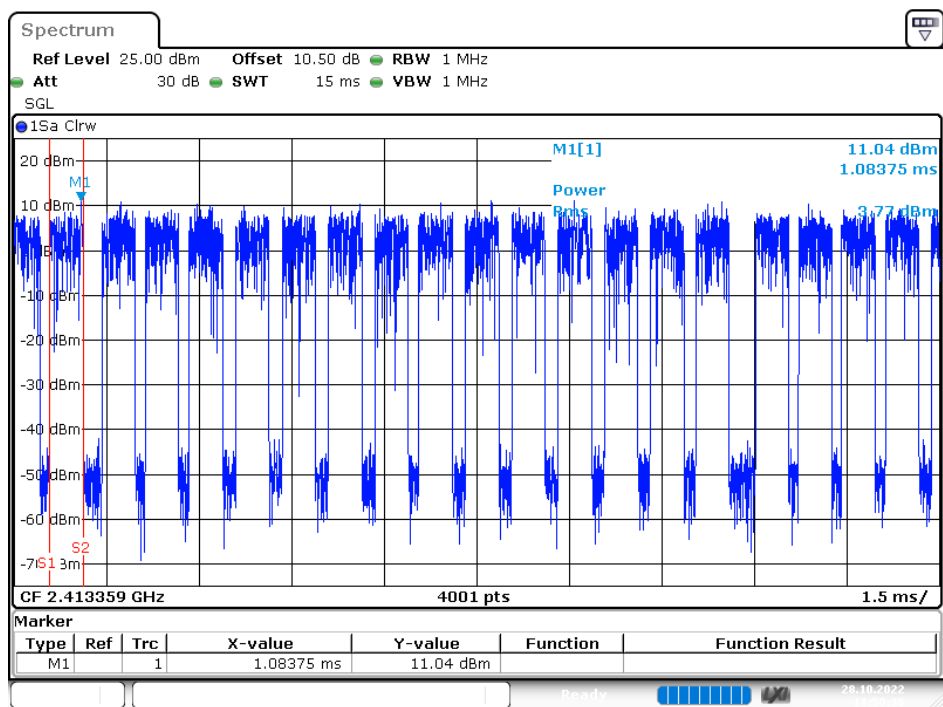


Date: 28.OCT.2022 11:34:33

11g_2412MHz

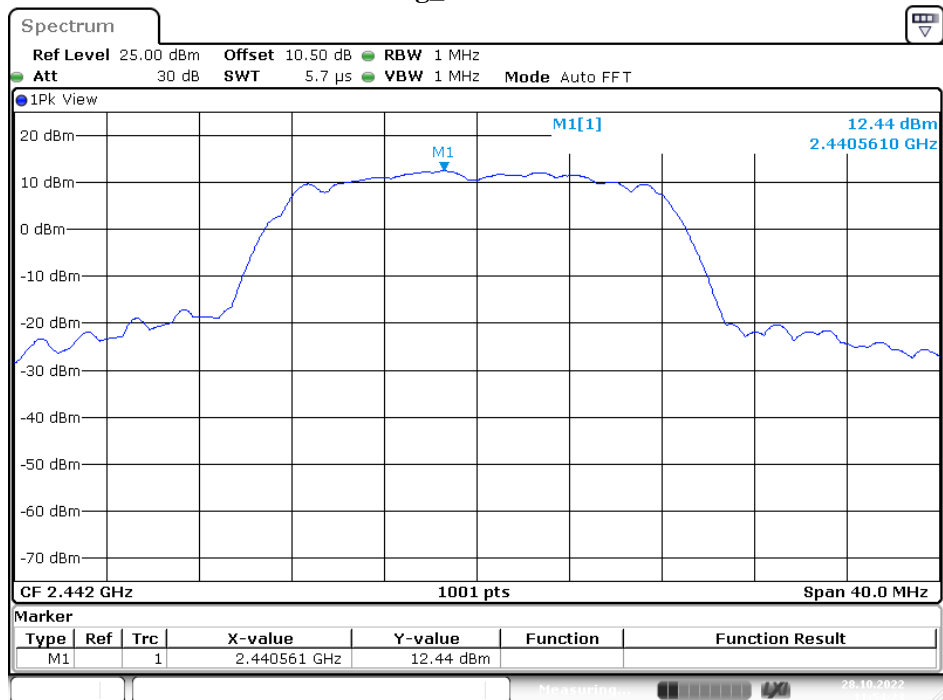


Date: 28.OCT.2022 11:50:29

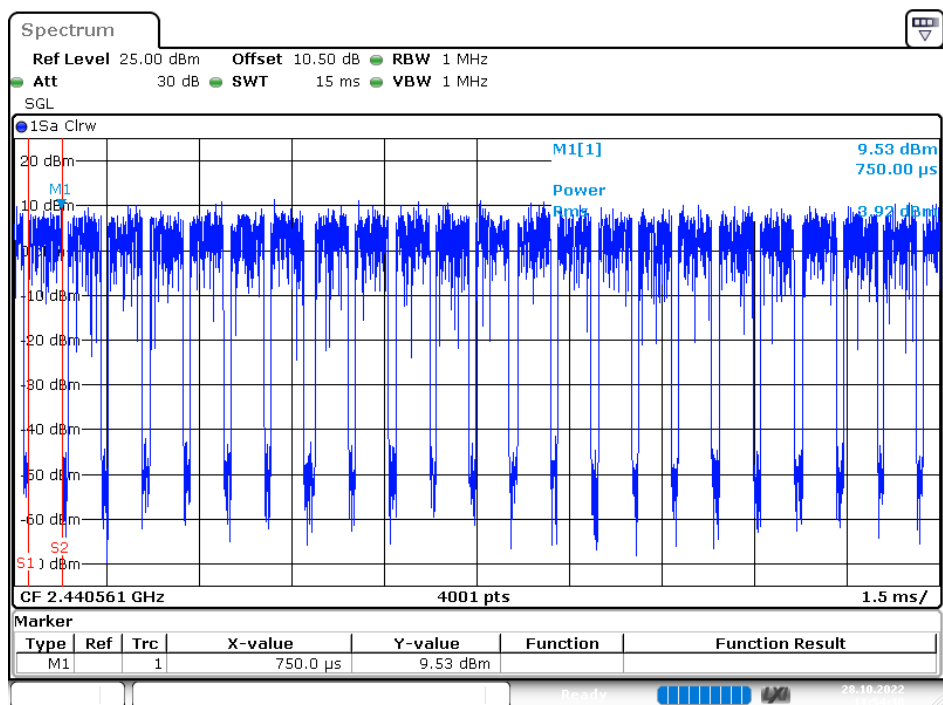


Date: 28.OCT.2022 11:50:37

11g_2442MHz

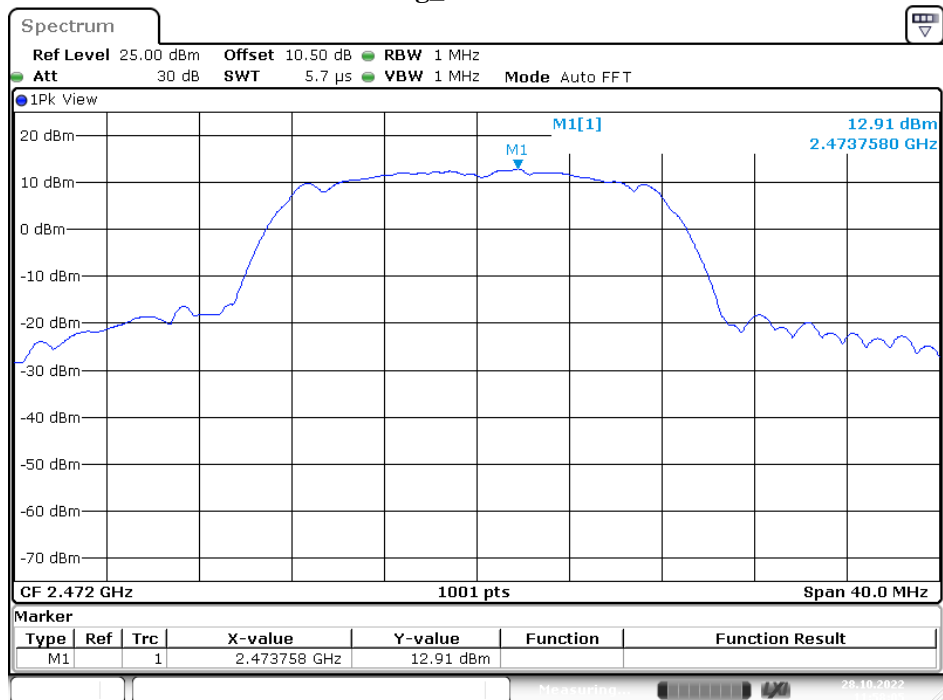


Date: 28.OCT.2022 11:54:24

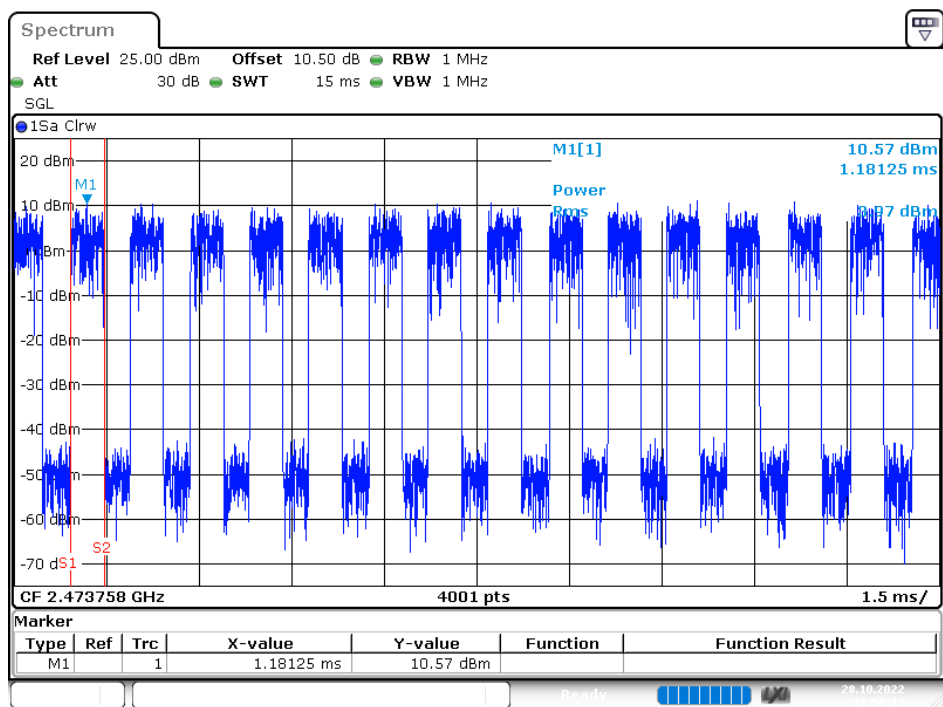


Date: 28.OCT.2022 11:54:31

11g_2472MHz

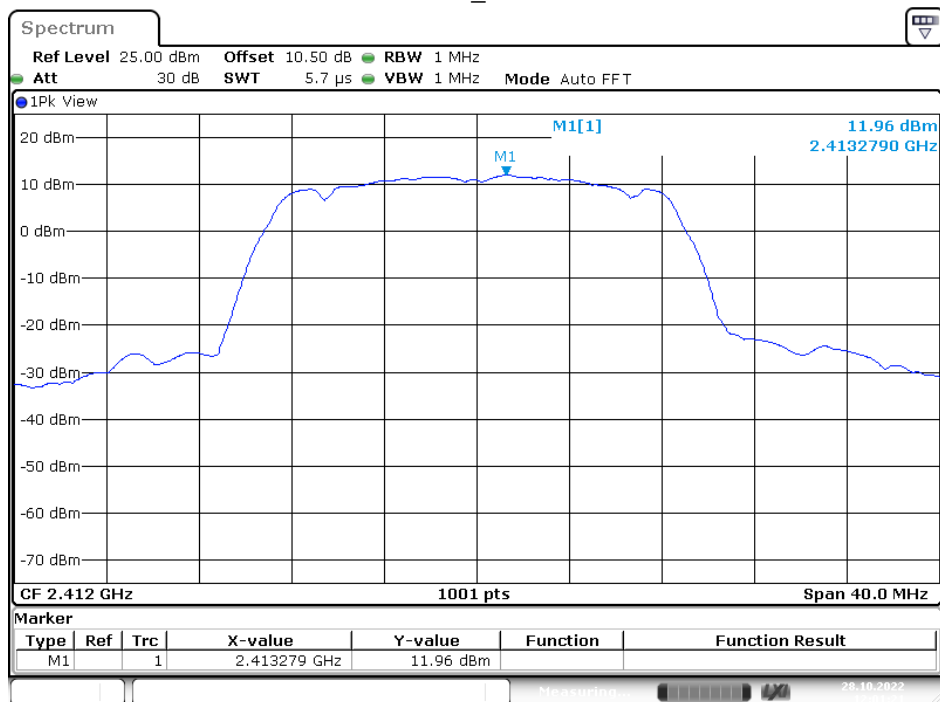


Date: 28.OCT.2022 11:58:06

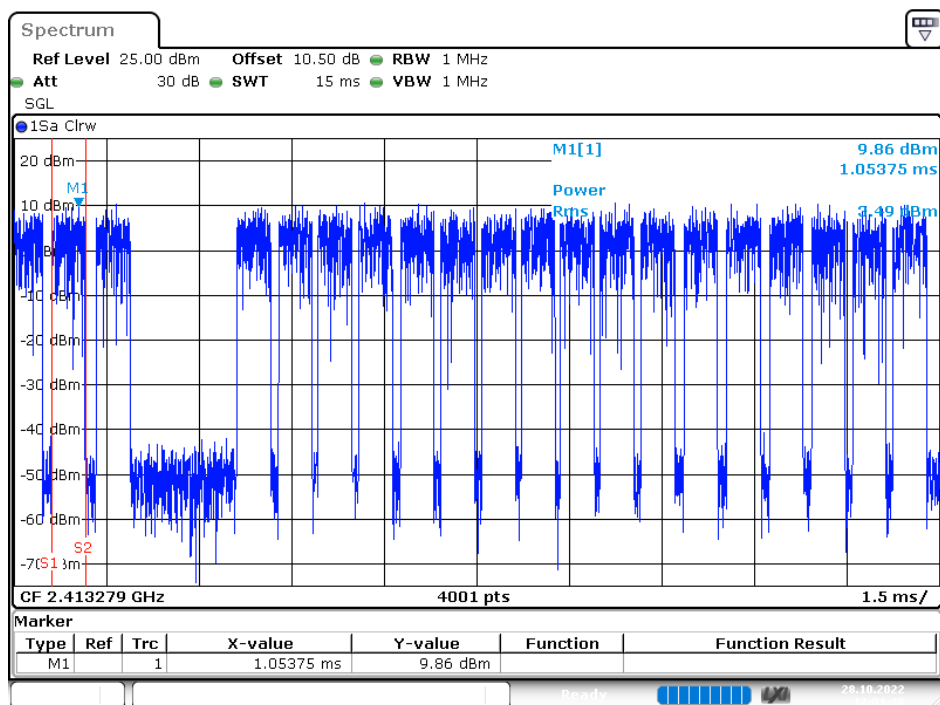


Date: 28.OCT.2022 11:58:13

11n-HT20_2412MHz

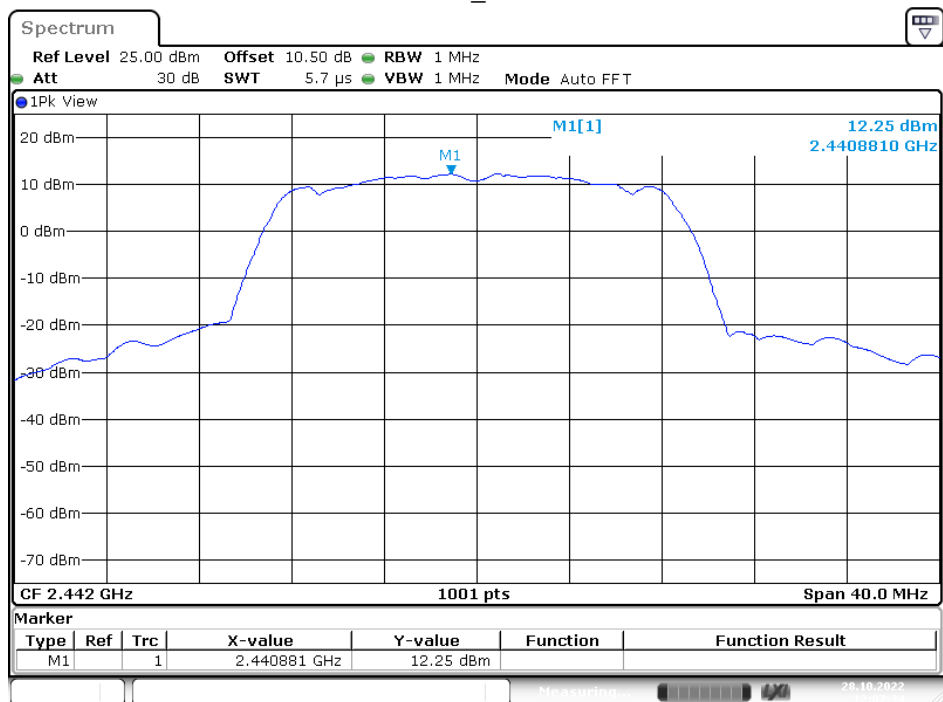


Date: 28.OCT.2022 12:01:21

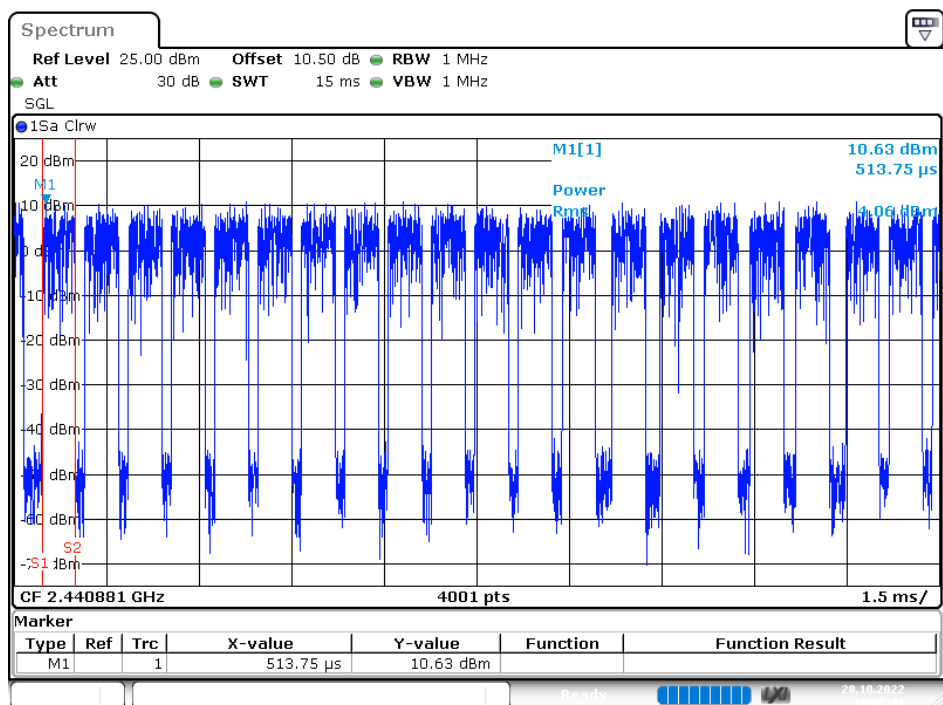


Date: 28.OCT.2022 12:01:28

11n-HT20_2442MHz

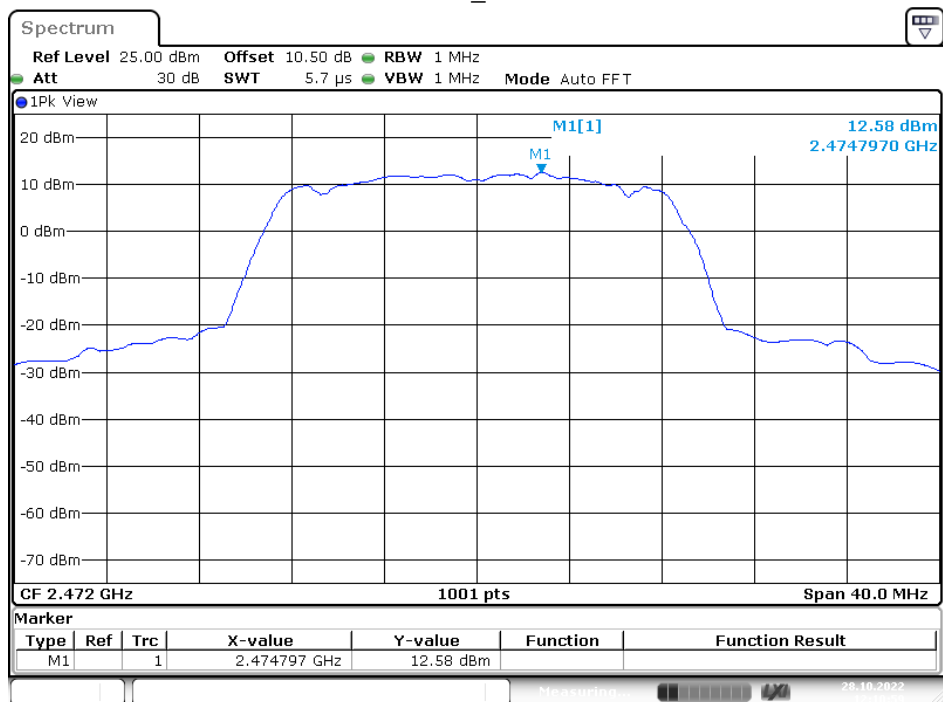


Date: 28.OCT.2022 12:07:34

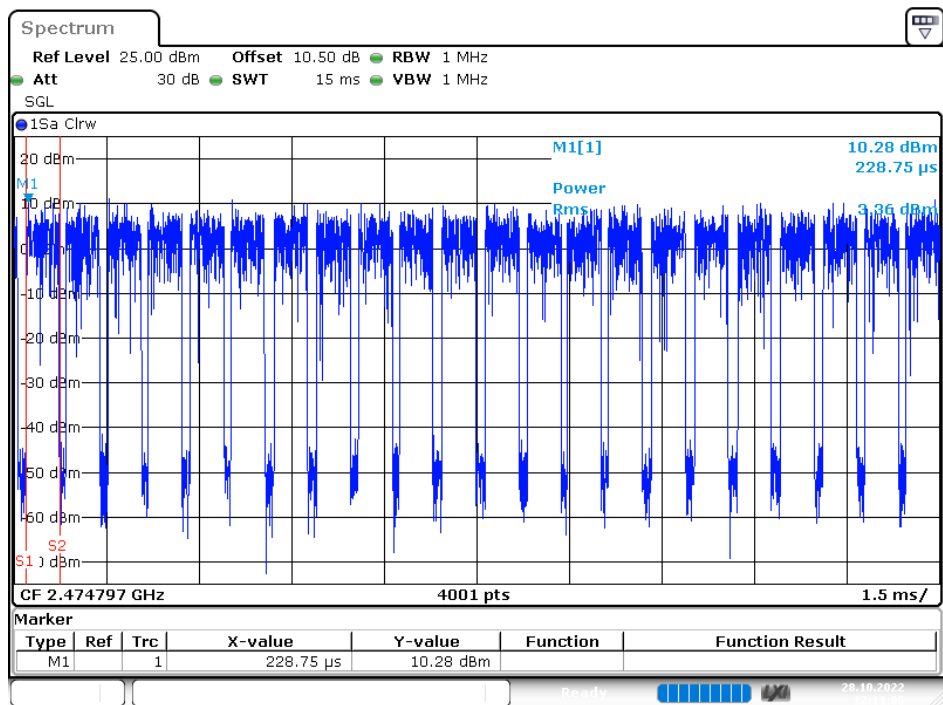


Date: 28.OCT.2022 12:07:41

11n-HT20_2472MHz



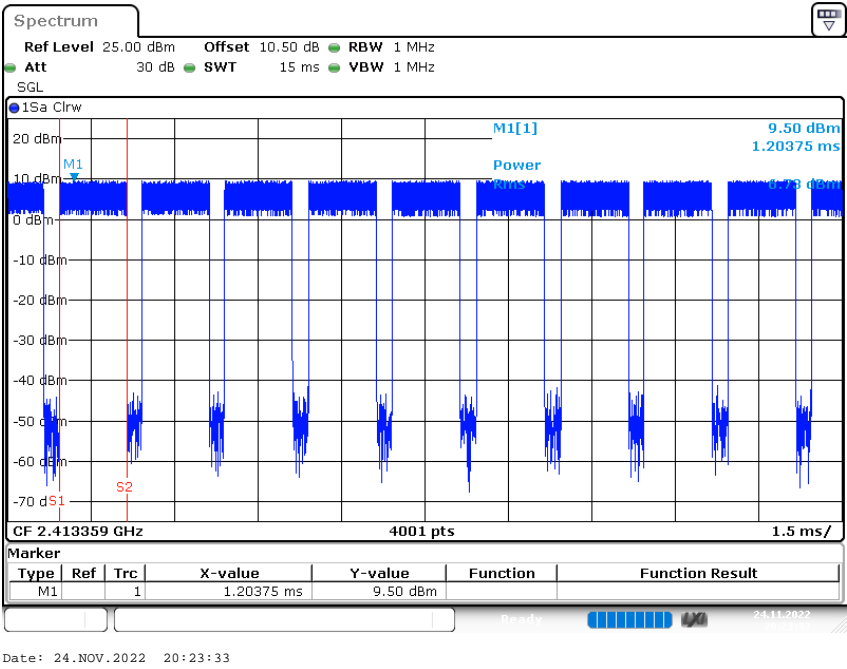
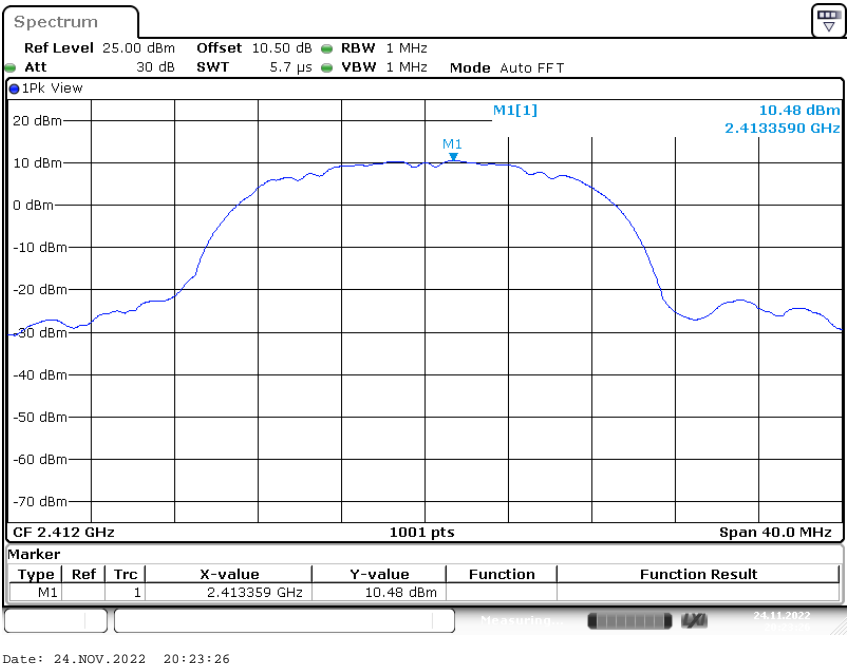
Date: 28.OCT.2022 12:10:59



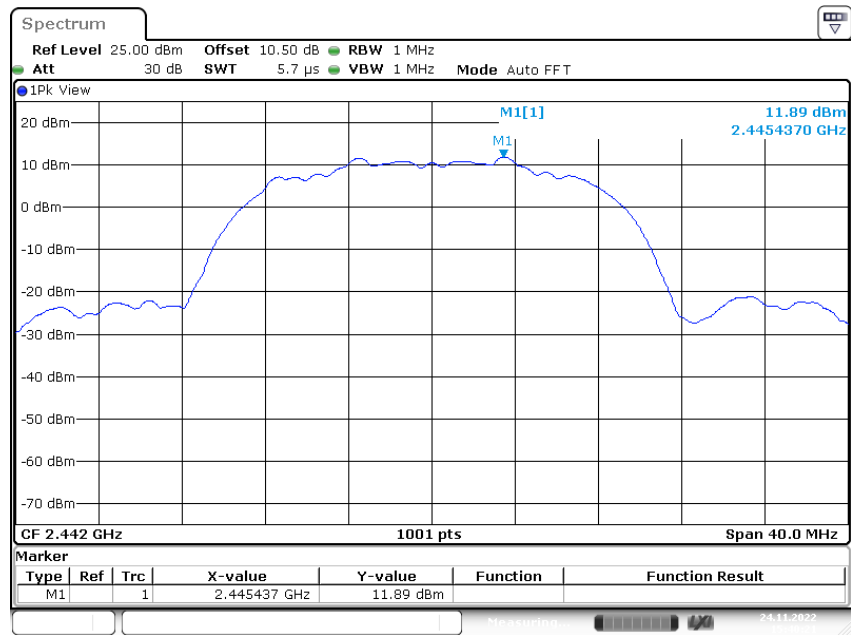
Date: 28.OCT.2022 12:11:06

For Model: Ai-WB2-12S

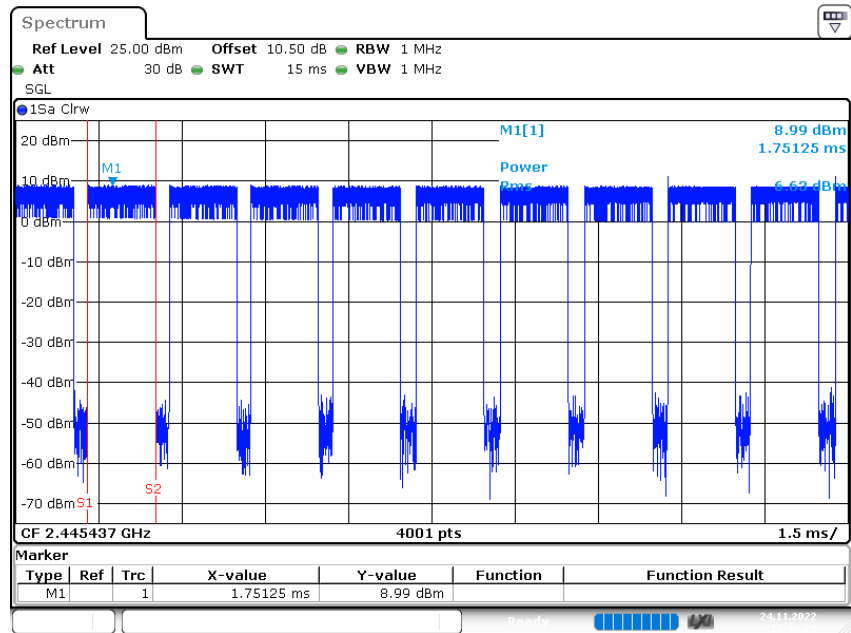
11b_2412MHz



11b_2442MHz

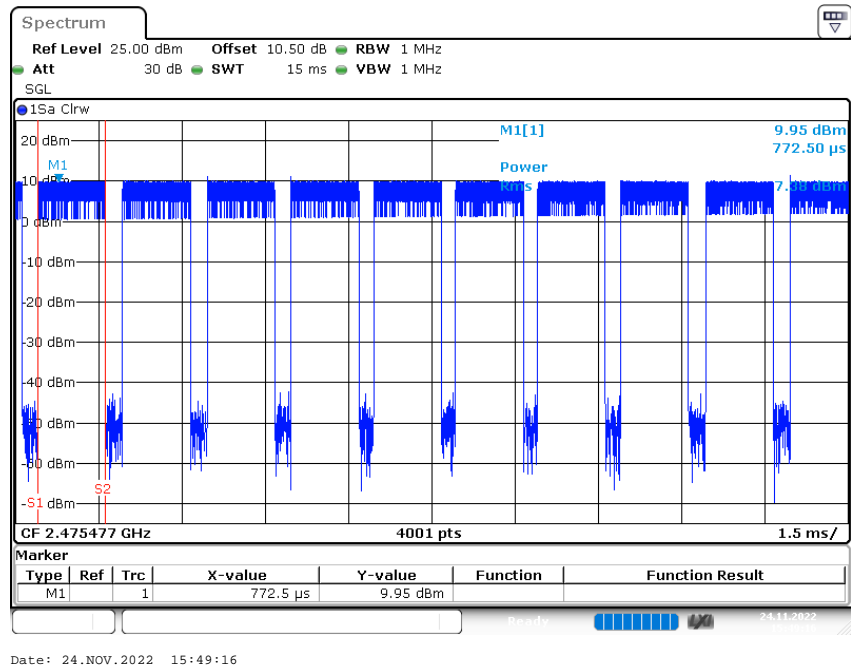
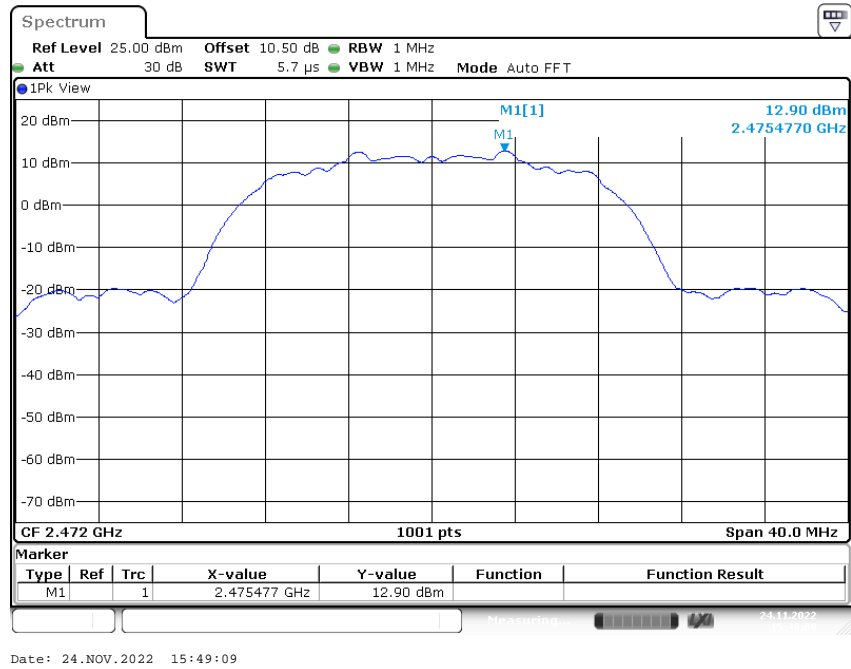


Date: 24.NOV.2022 15:40:21

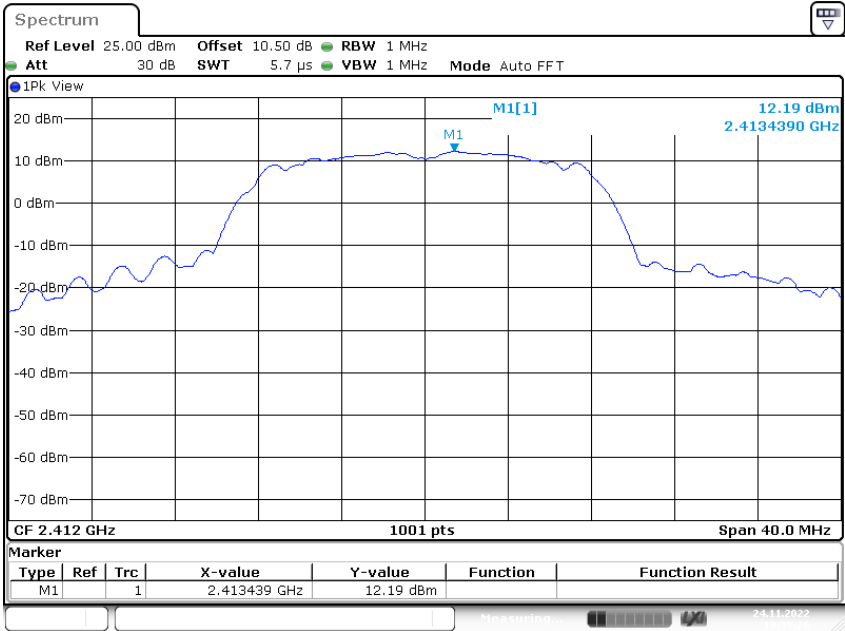


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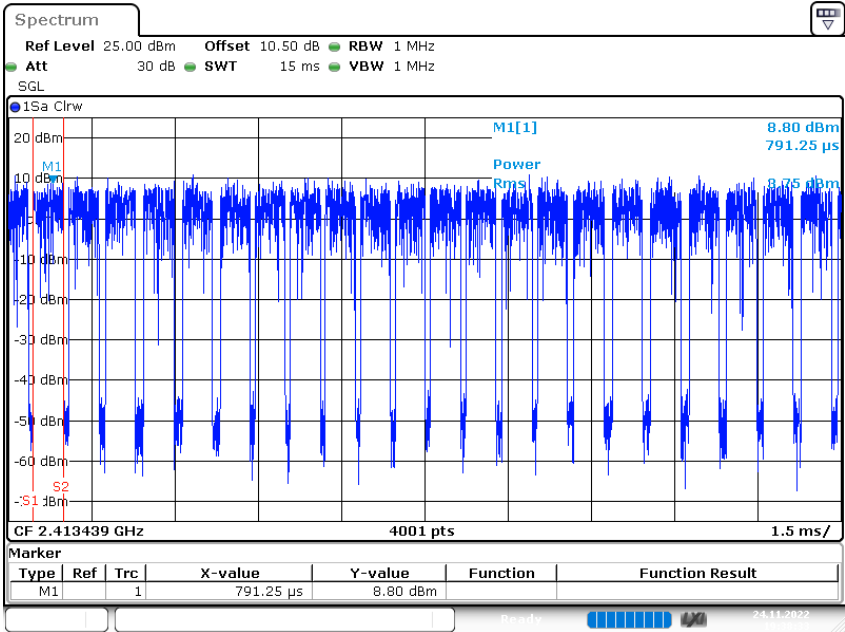
11b_2472MHz



11g_2412MHz

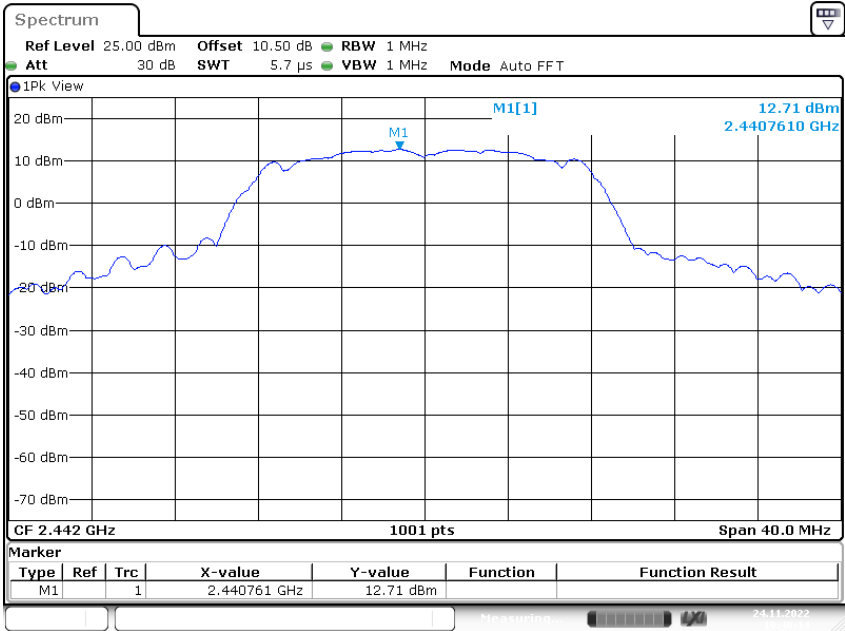


Date: 24.NOV.2022 19:38:26

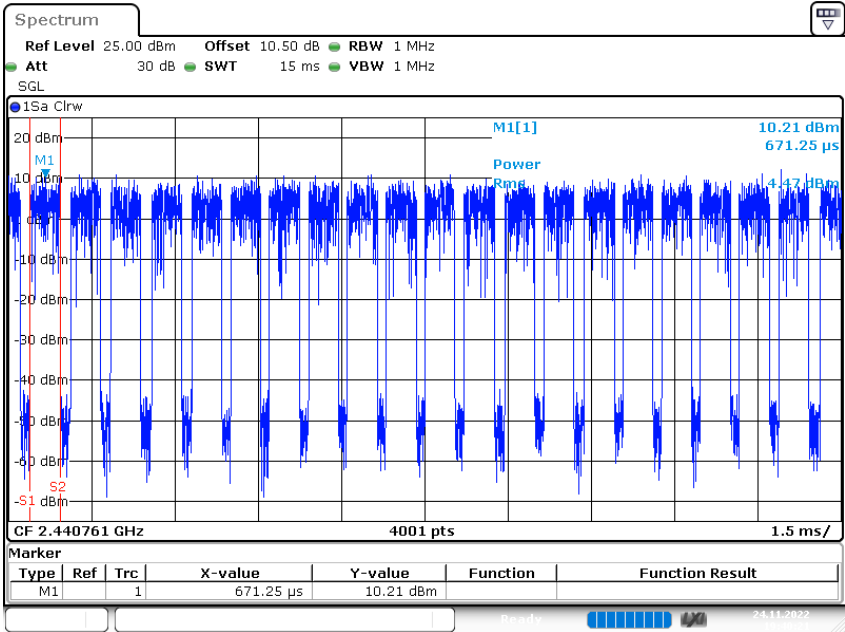


Date: 24.NOV.2022 19:38:33

11g_2442MHz

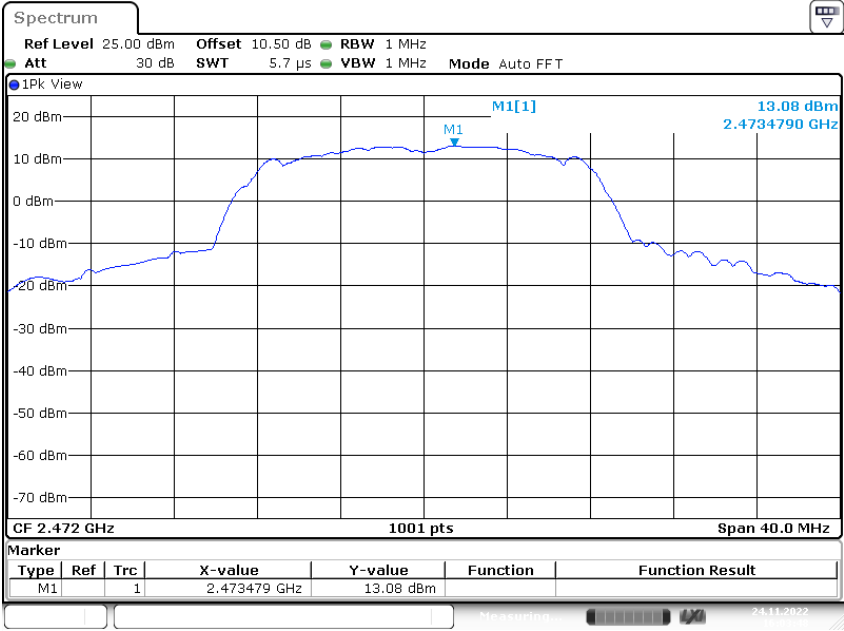


Date: 24.NOV.2022 19:40:14

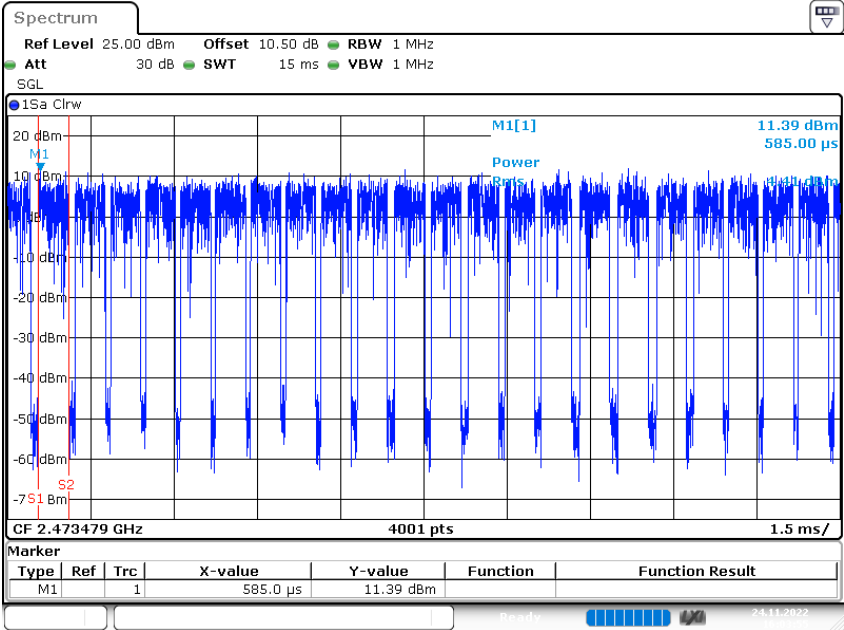


Date: 24.NOV.2022 19:40:20

11g_2472MHz

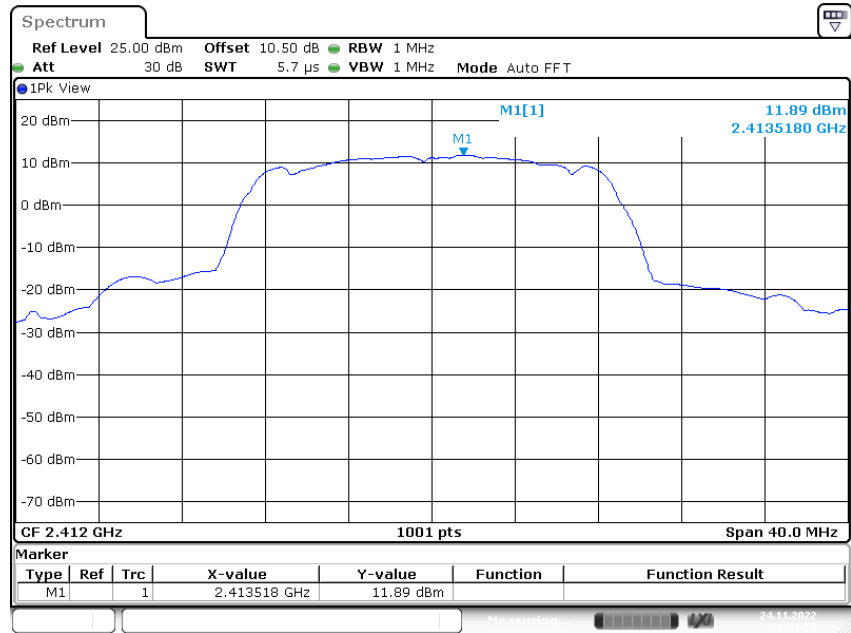


Date: 24.NOV.2022 16:03:48

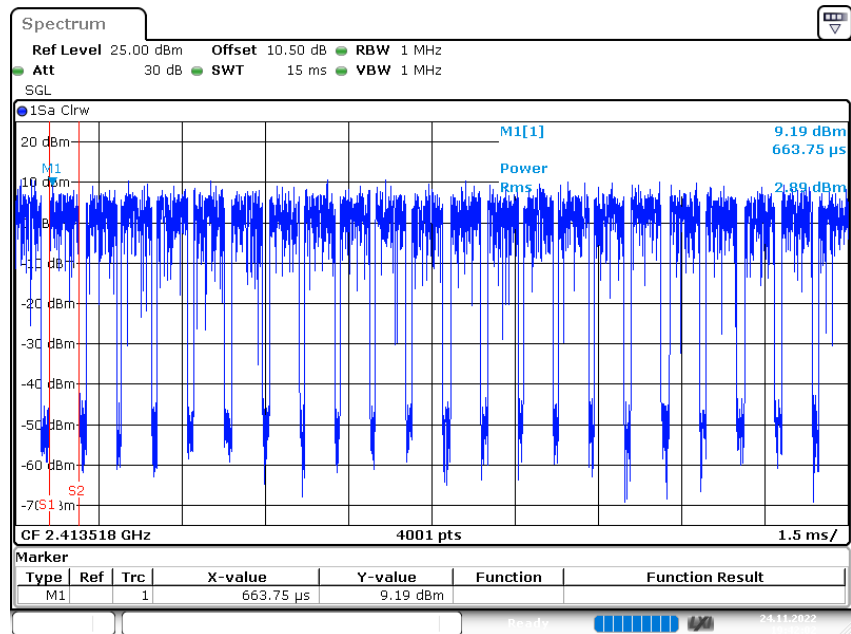


Date: 24.NOV.2022 16:03:55

11n-HT20_2412MHz

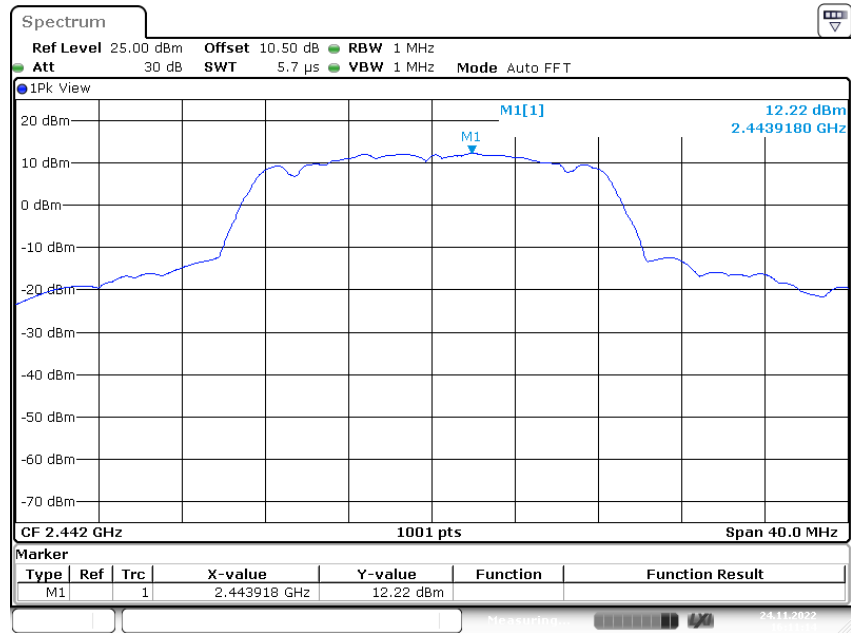


Date: 24.NOV.2022 19:41:55

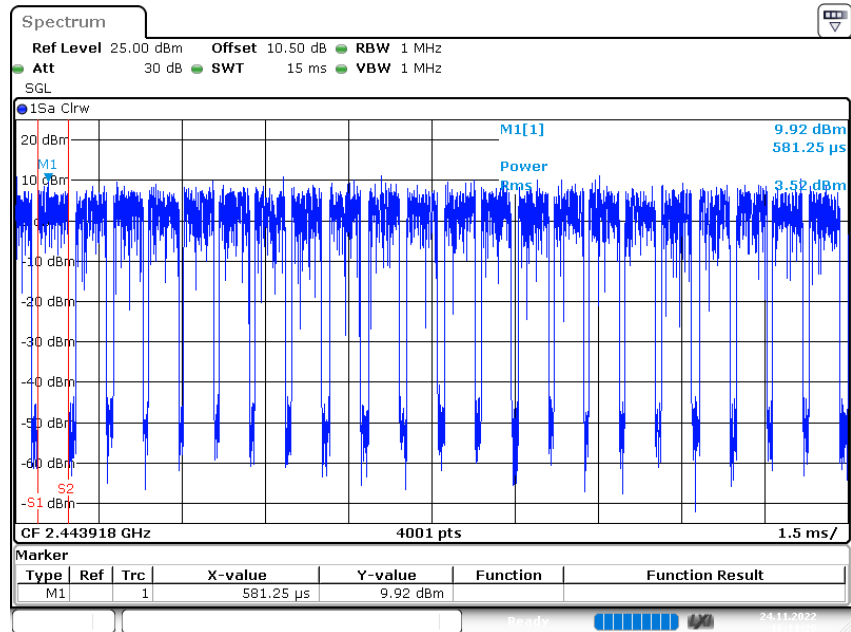


Date: 24.NOV.2022 19:42:02

11n-HT20_2442MHz

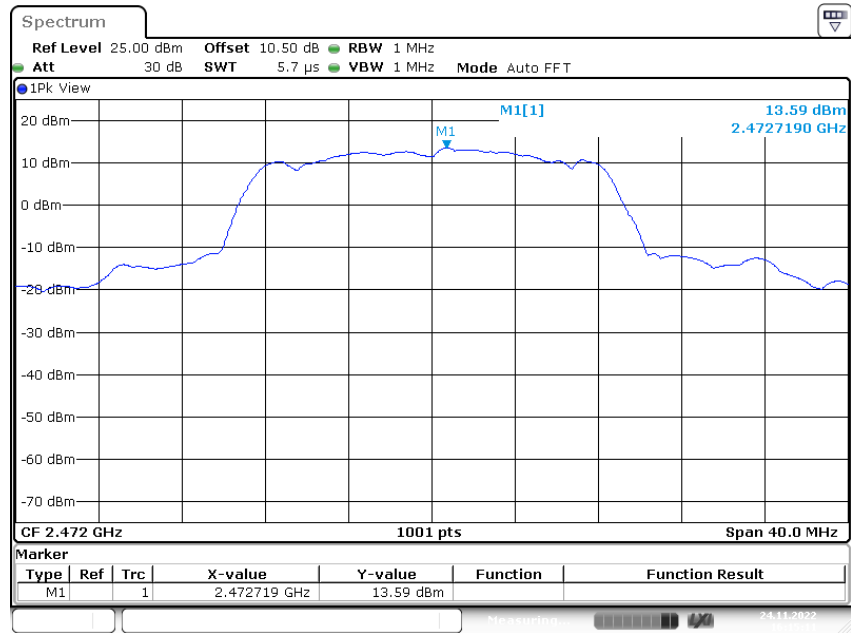


Date: 24.NOV.2022 16:11:14

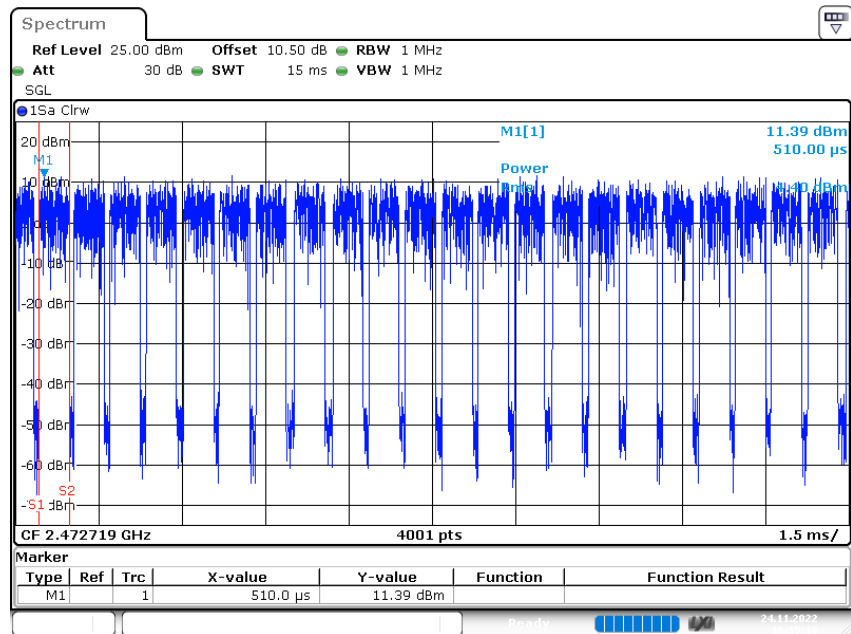


Date: 24.NOV.2022 16:11:21

11n-HT20_2472MHz



Date: 24.NOV.2022 16:15:11



Date: 24.NOV.2022 16:15:18

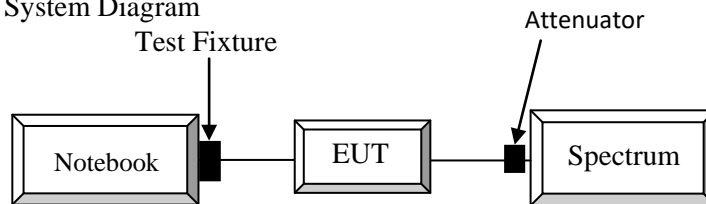
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

Limit

- $\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- $\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (MeasurementRange)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: PositivePeak
- Reference Level: Enough level for maximum dynamic range

Measurement Result

Environmental Conditions

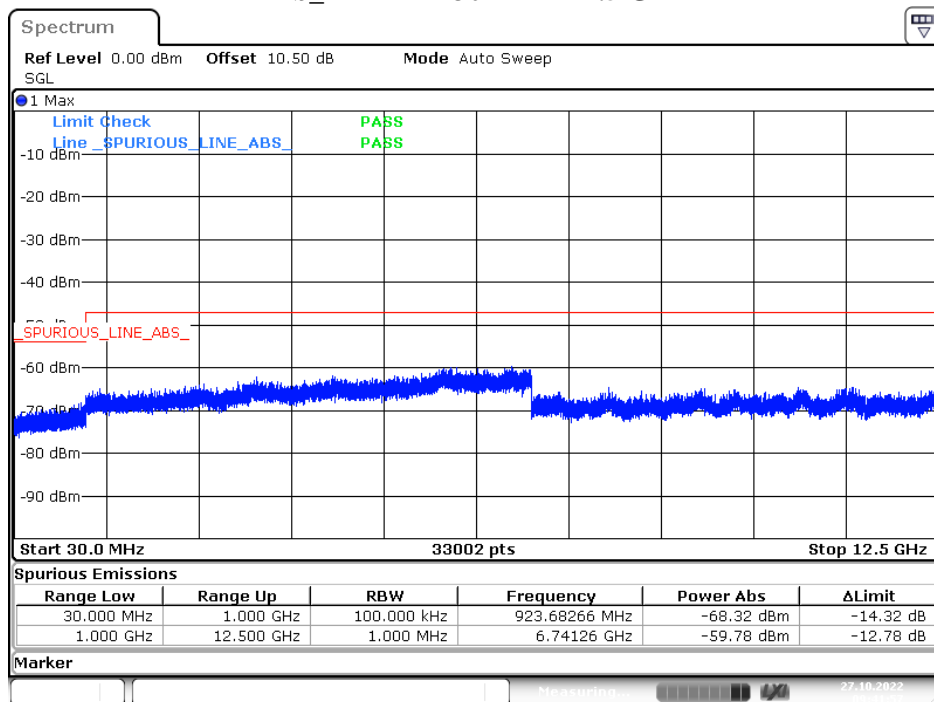
Temperature:	24°C
Relative Humidity:	49 %
ATM Pressure:	101.0kPa

The testing was performed by Glenn Jiang from 2022-10-27 to 2022-10-28

Test Result: Compliant, please see the below plots:

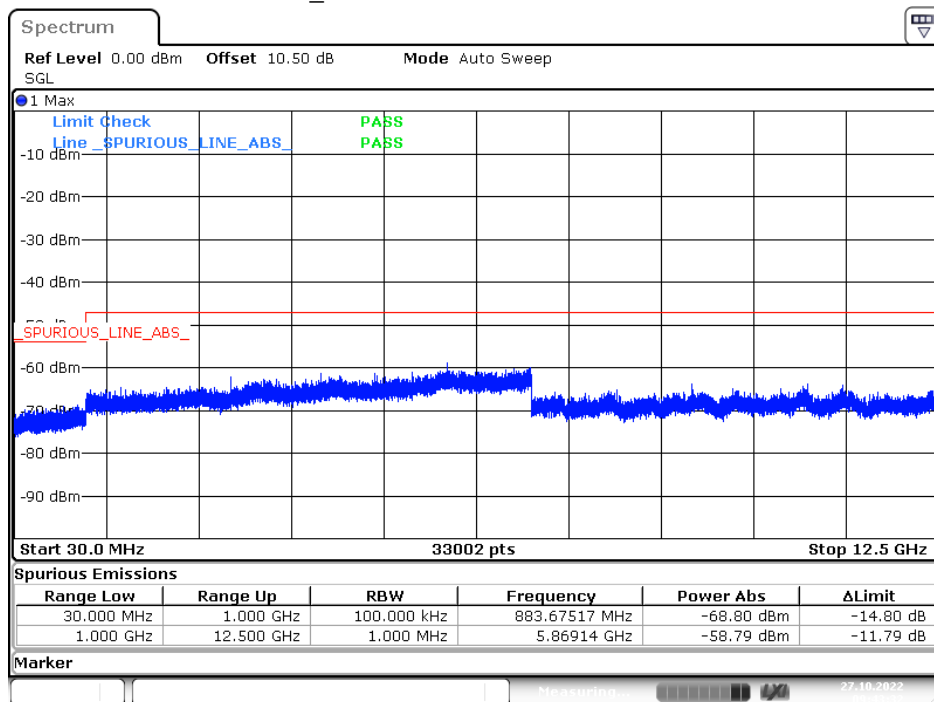
Normal Voltage:

11b_2412MHz 30 MHz~12.5 GHz



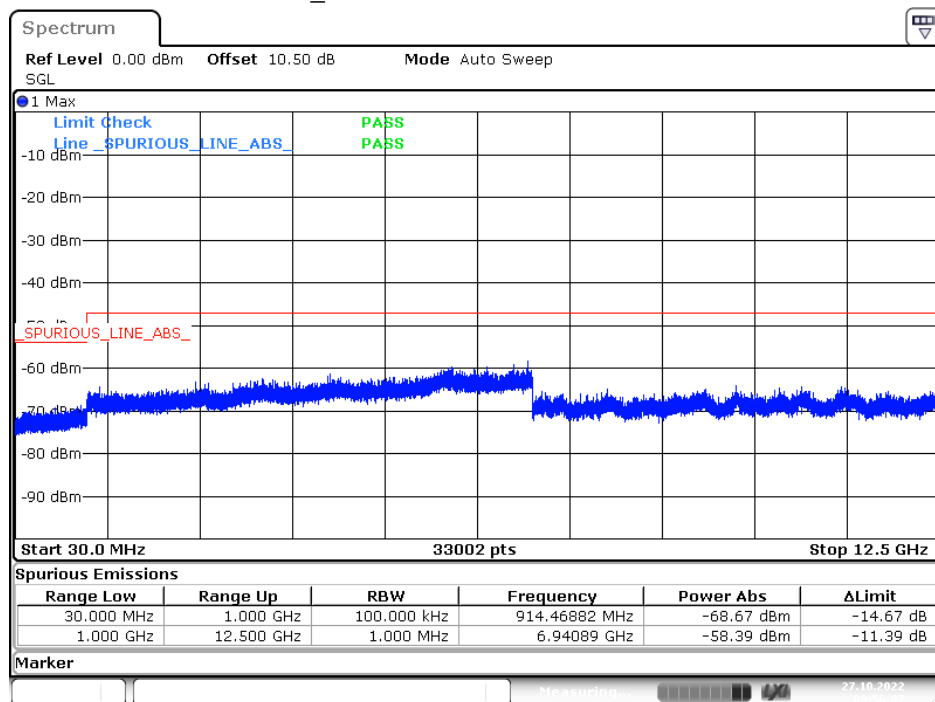
Date: 27.OCT.2022 09:41:57

11b_2442MHz 30 MHz~12.5 GHz



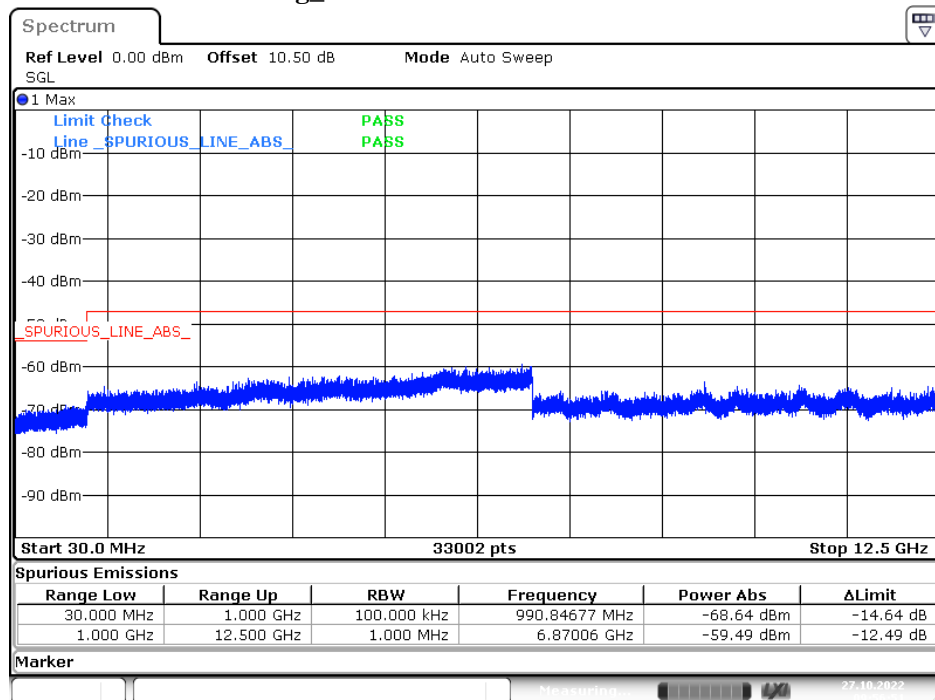
Date: 27.OCT.2022 09:43:32

11b_2472MHz 30 MHz~12.5 GHz



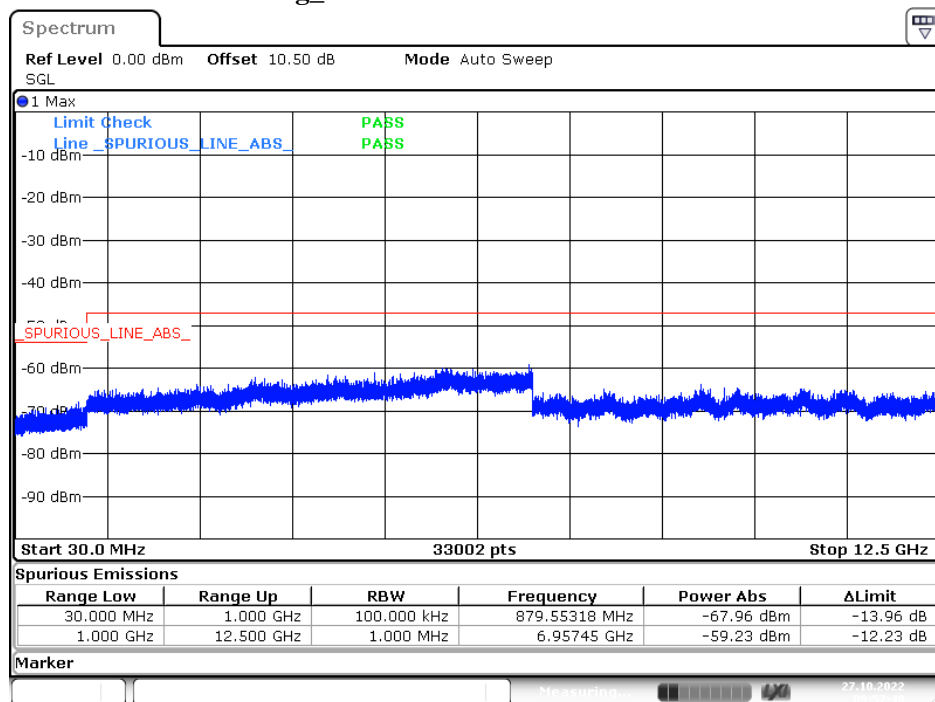
Date: 27.OCT.2022 09:56:07

11g_2412MHz 30 MHz~12.5 GHz



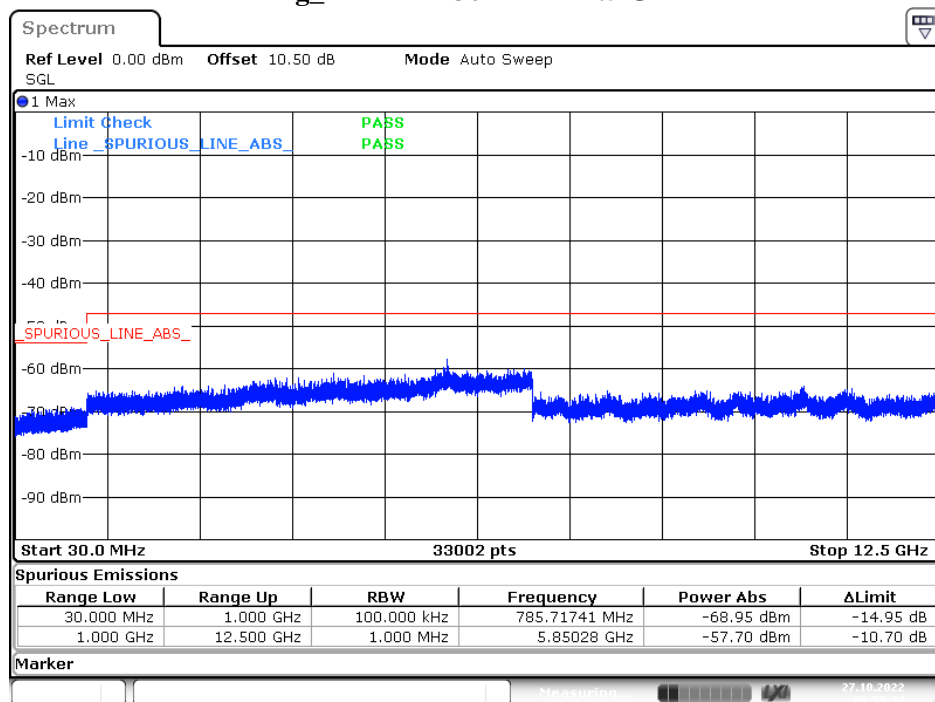
Date: 27.OCT.2022 09:56:51

11g_2442MHz 30 MHz~12.5 GHz



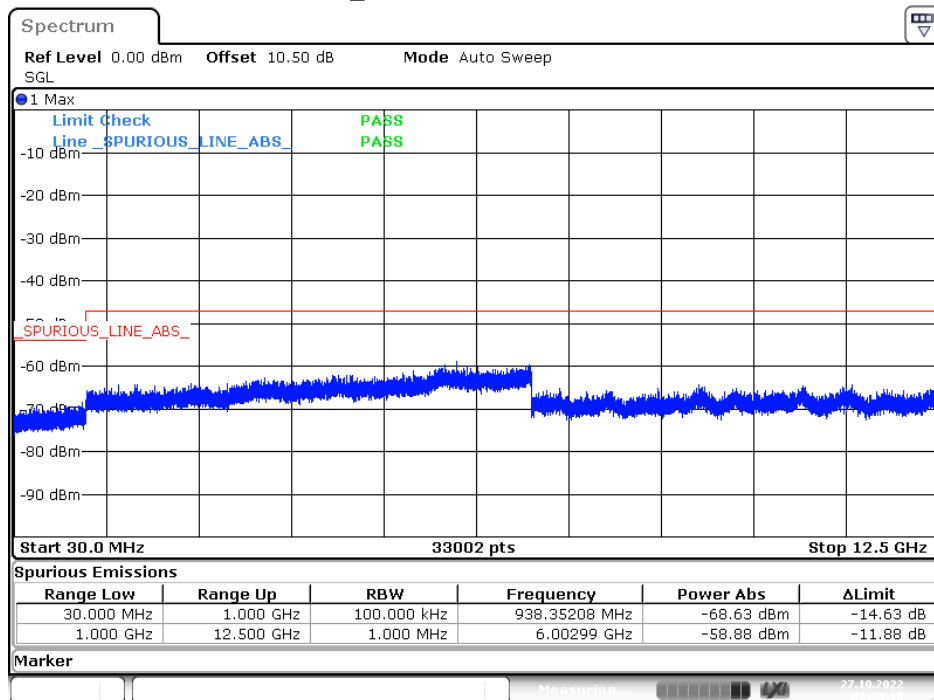
Date: 27.OCT.2022 09:57:40

11g_2472MHz 30 MHz~12.5 GHz



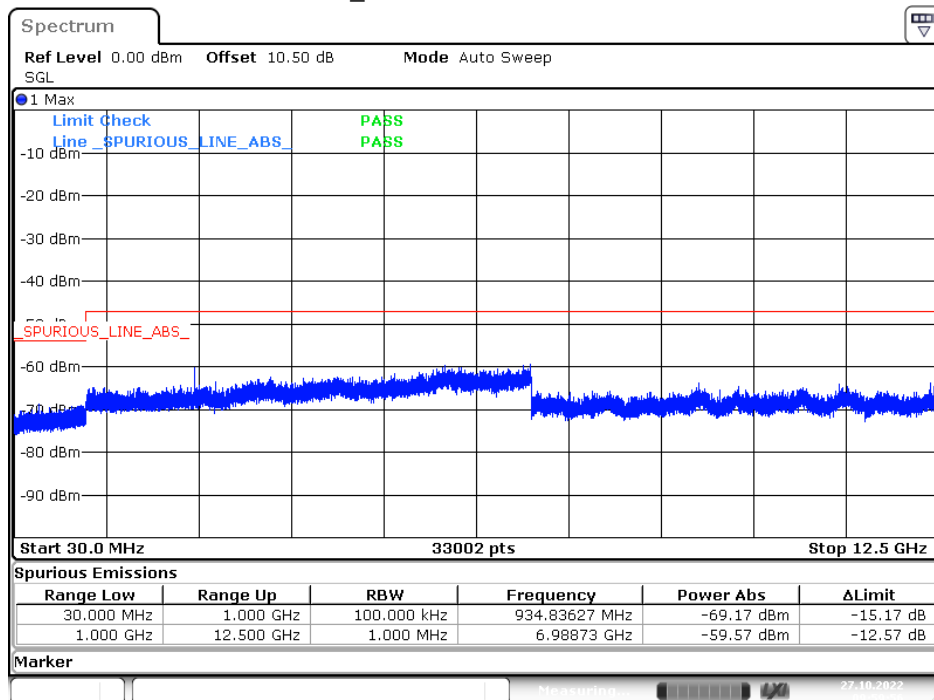
Date: 27.OCT.2022 09:58:24

11n-HT20_2412MHz 30 MHz~12.5 GHz



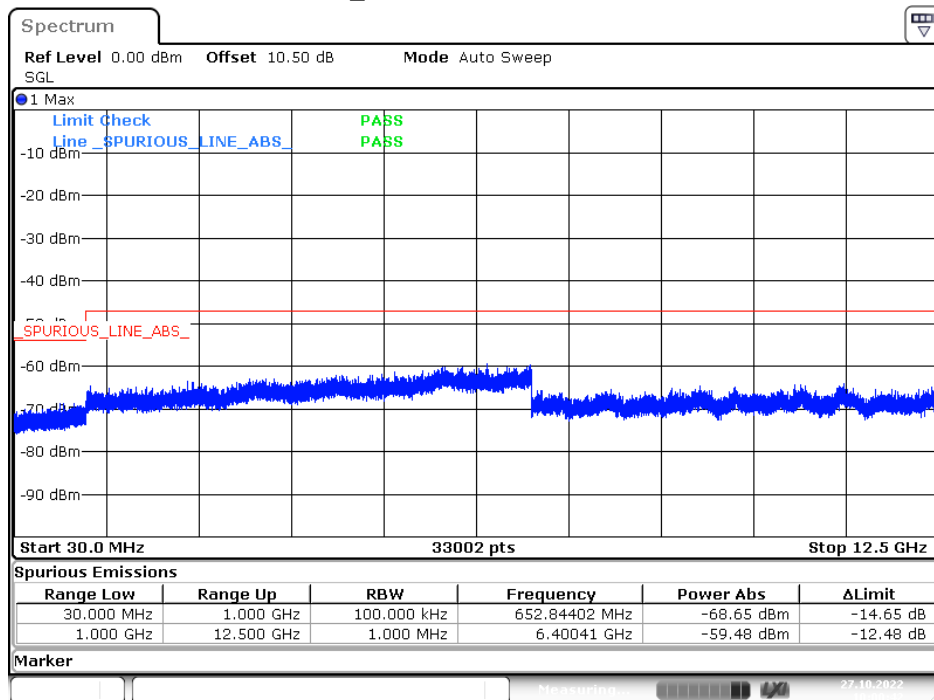
Date: 27.OCT.2022 09:59:10

11n-HT20_2442MHz 30 MHz~12.5 GHz

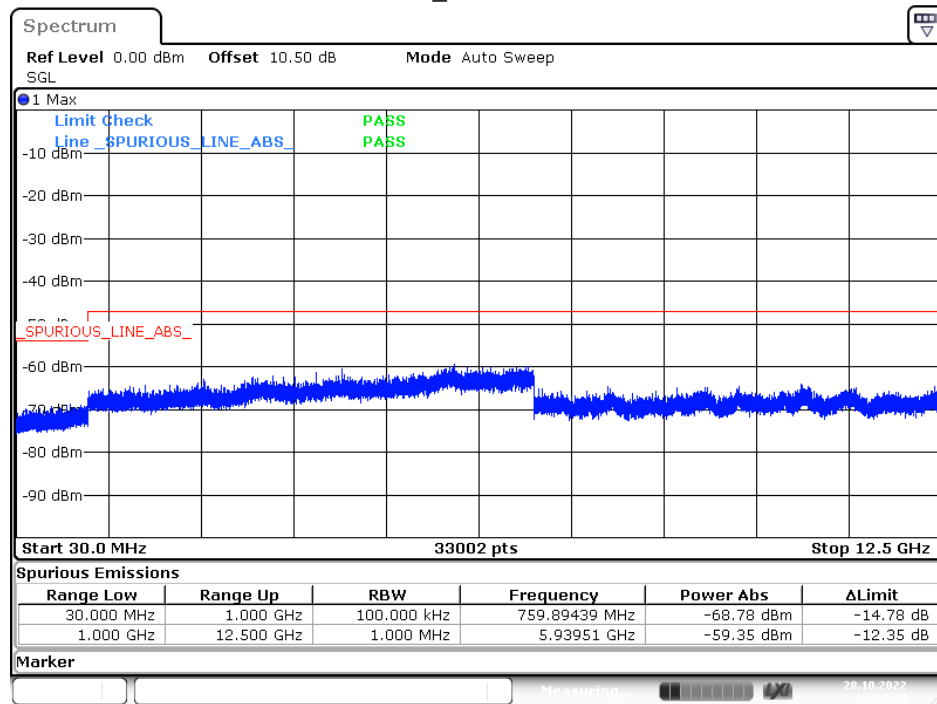


Date: 27.OCT.2022 09:59:56

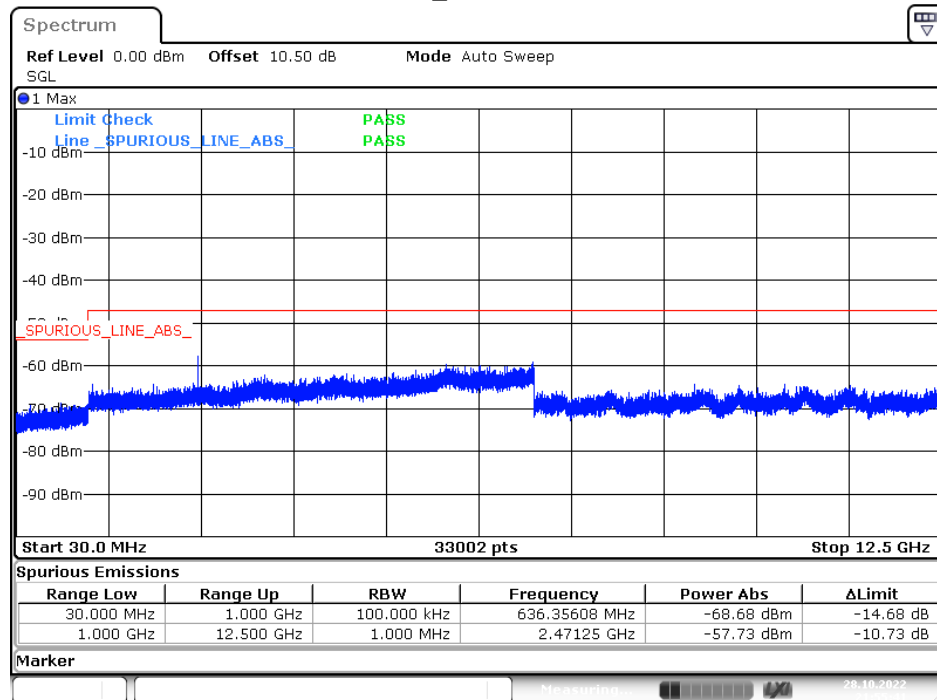
11n-HT20_2472MHz 30 MHz~12.5 GHz



Date: 27.OCT.2022 10:00:41

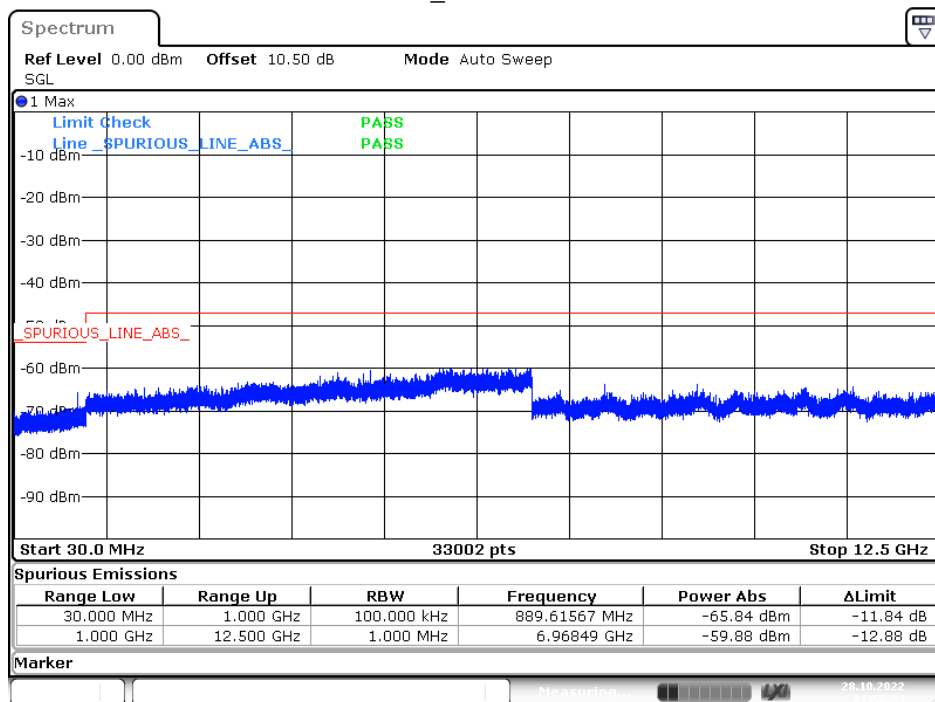
Low Voltage:**11b_2412MHz**

Date: 28.OCT.2022 21:53:59

11b_2442MHz

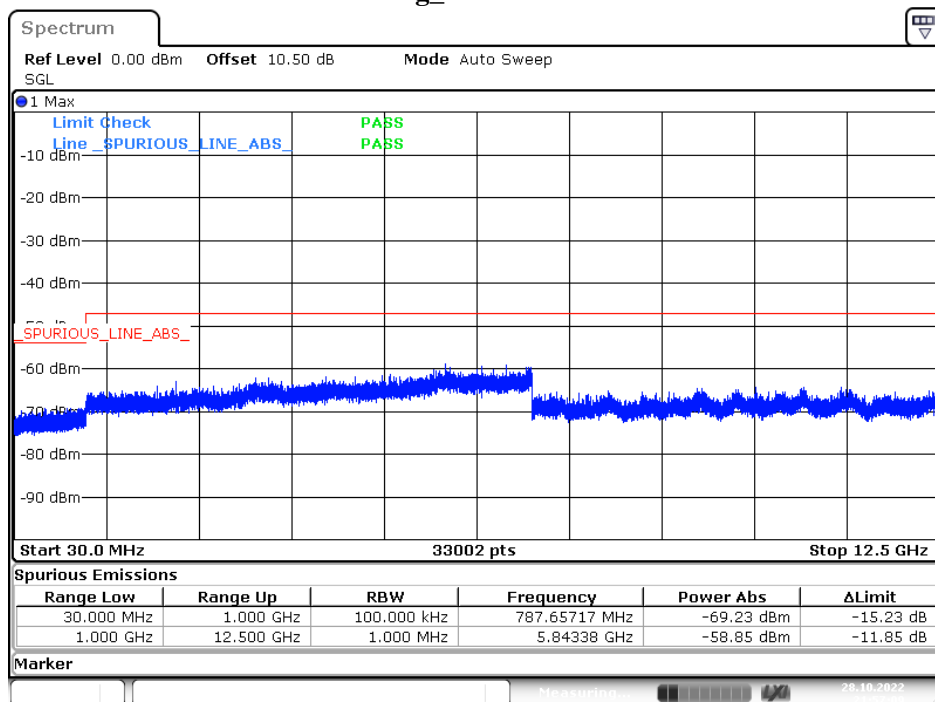
Date: 28.OCT.2022 21:55:41

11b_2472MHz



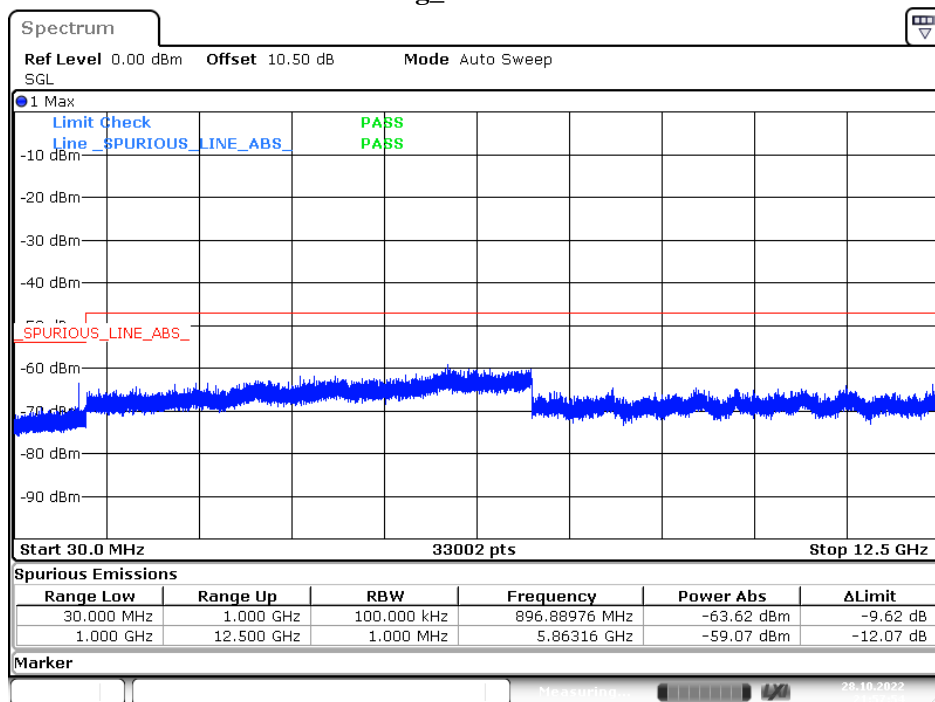
Date: 28.OCT.2022 21:56:24

11g_2412MHz



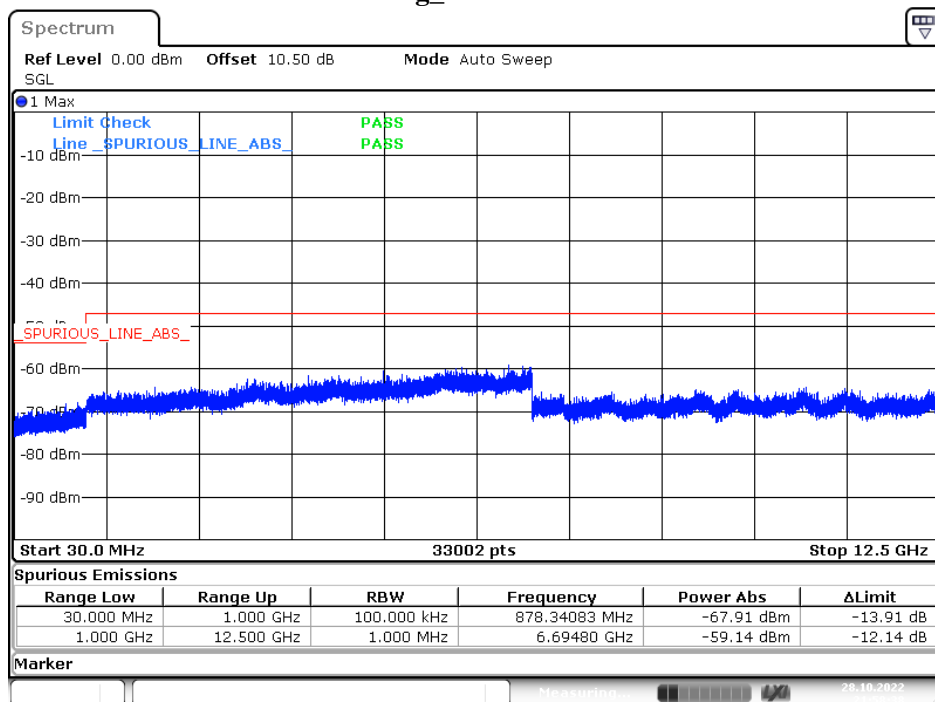
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11g_2442MHz



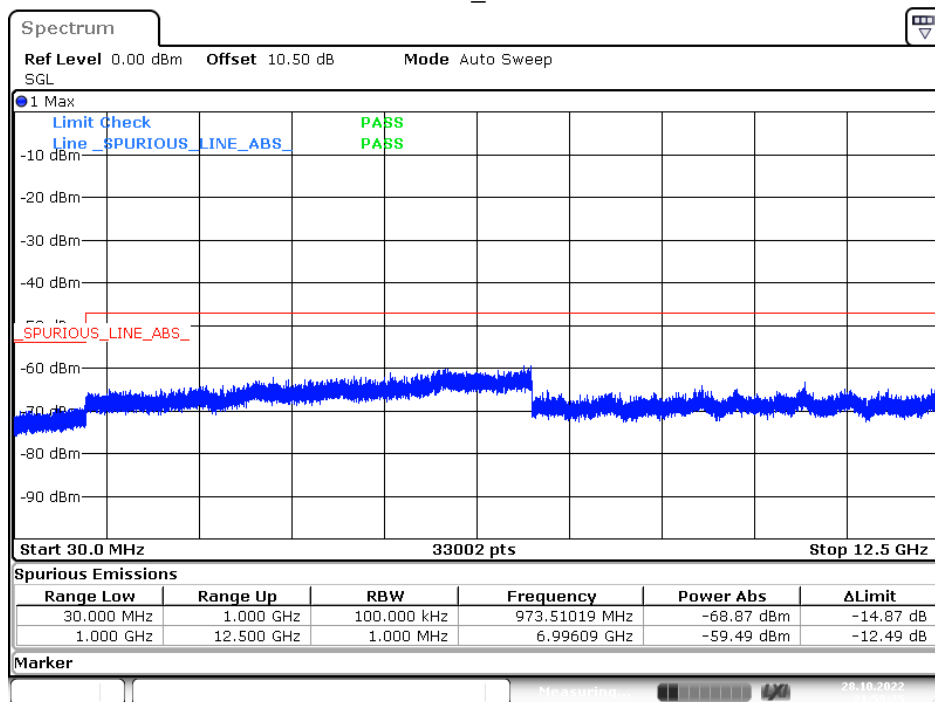
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11g_2472MHz



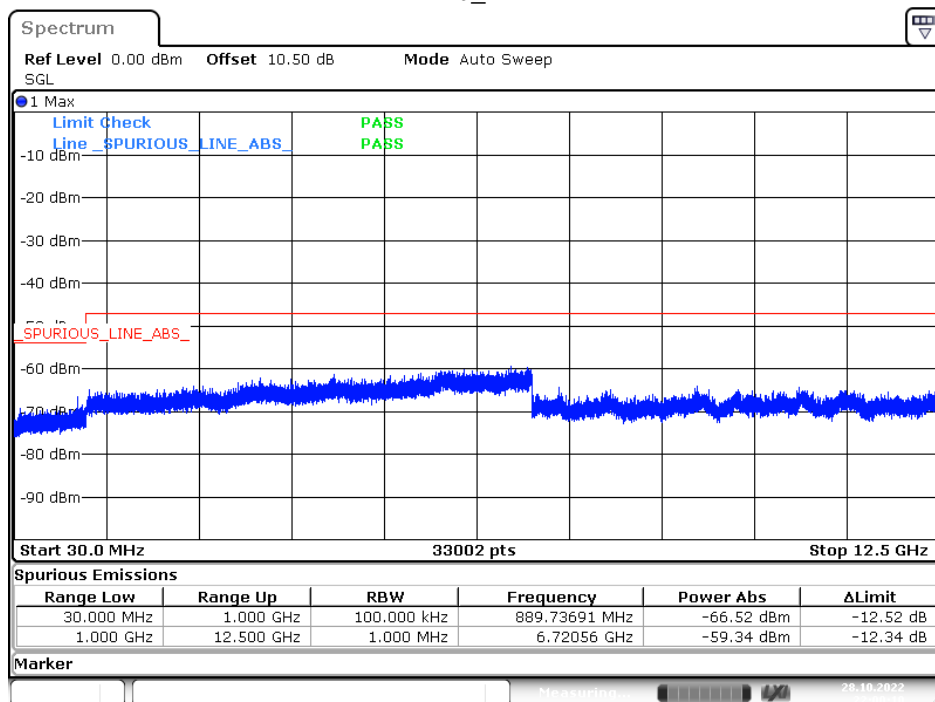
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11n-HT20_2412MHz

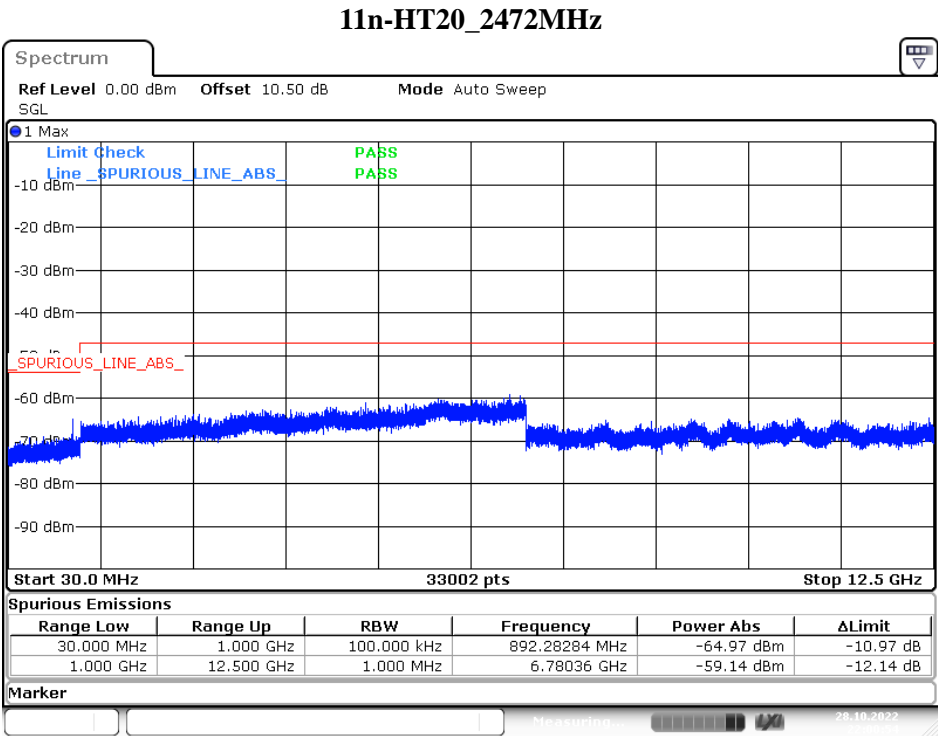


Date: 28.OCT.2022 21:59:25

11n-HT20_2442MHz



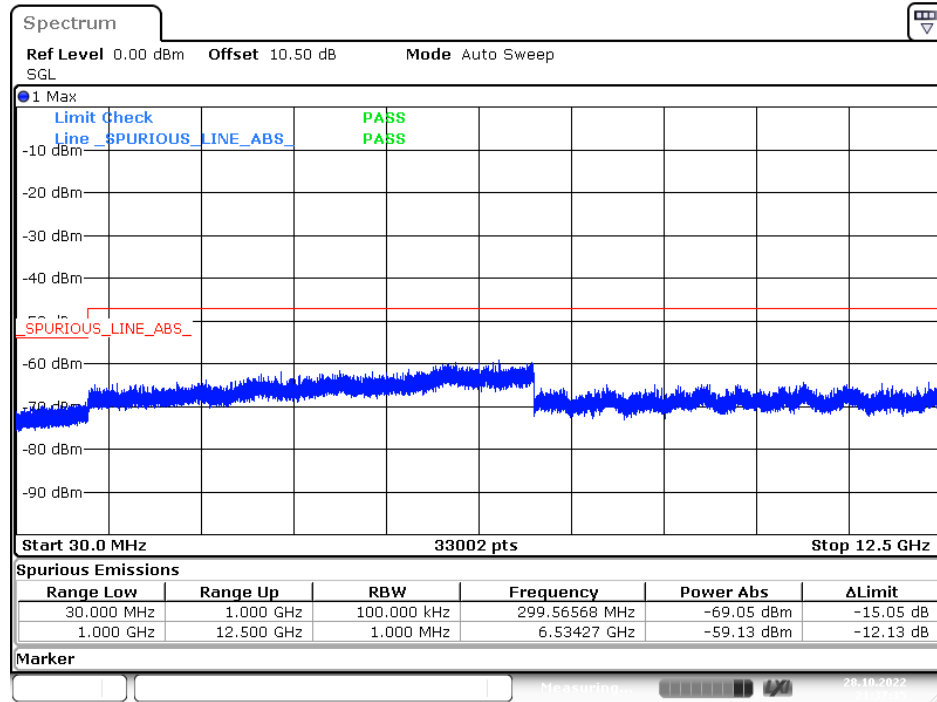
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Date: 28.OCT.2022 22:00:54

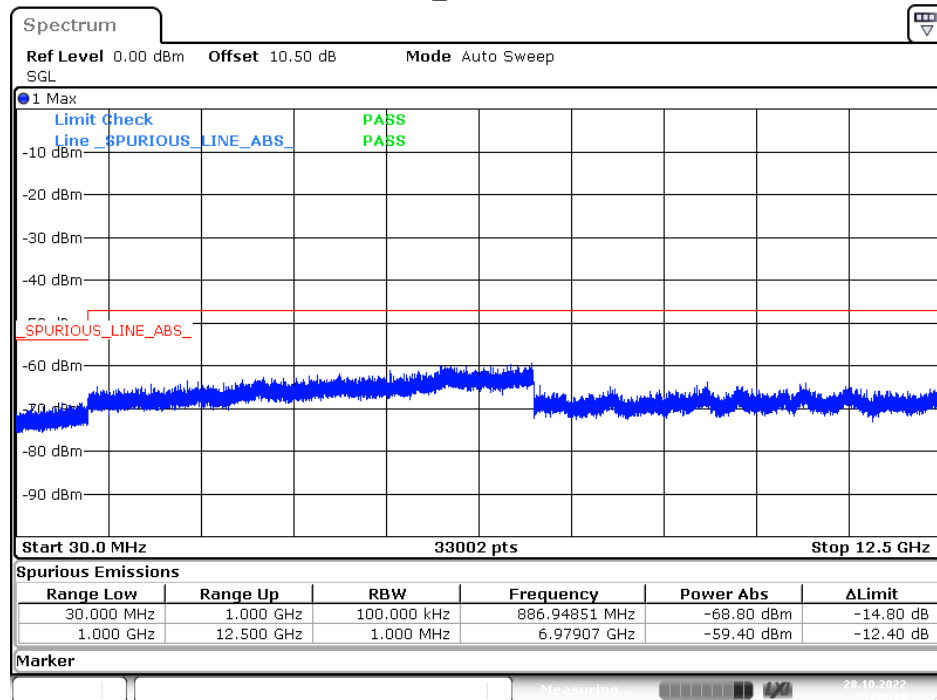
High Voltage:

11b_2412MHz



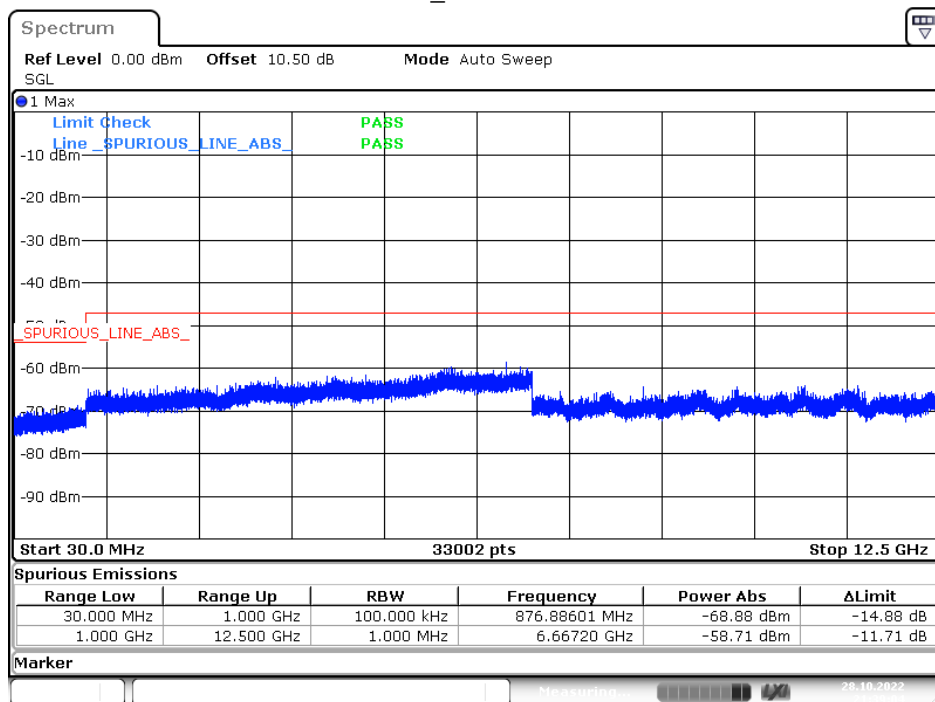
Date: 28.OCT.2022 21:37:35

11b_2442MHz



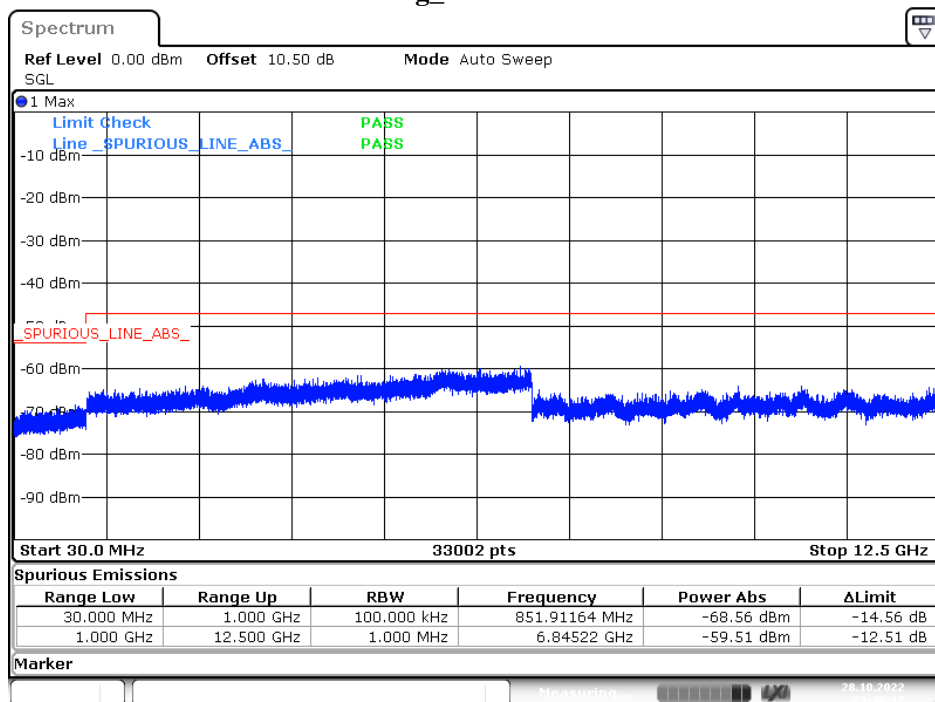
Date: 28.OCT.2022 21:38:20

11b_2472MHz



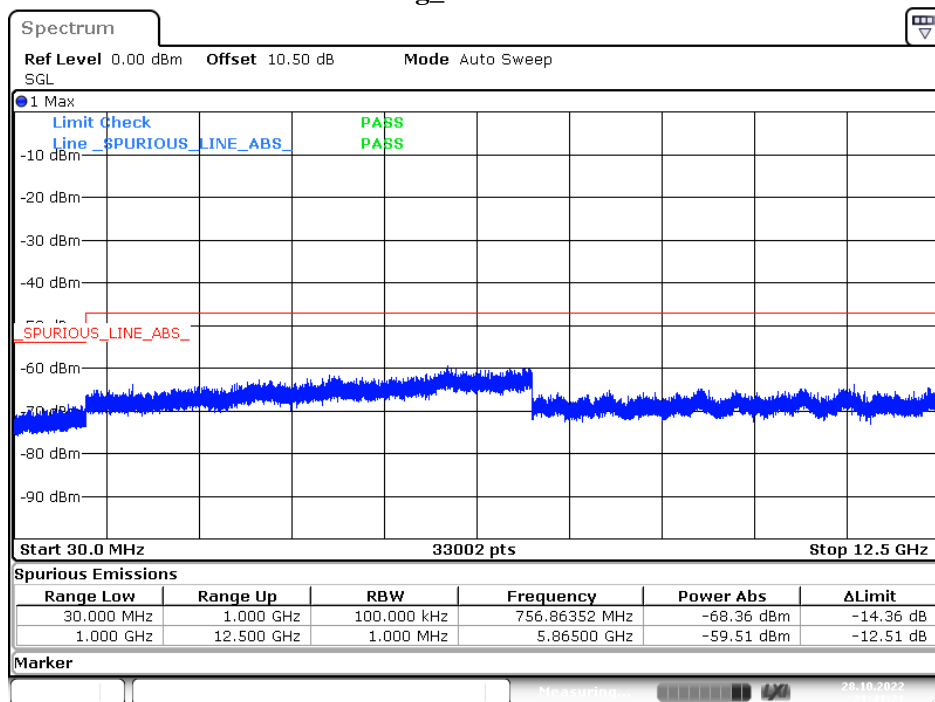
Date: 28.OCT.2022 21:39:04

11g_2412MHz



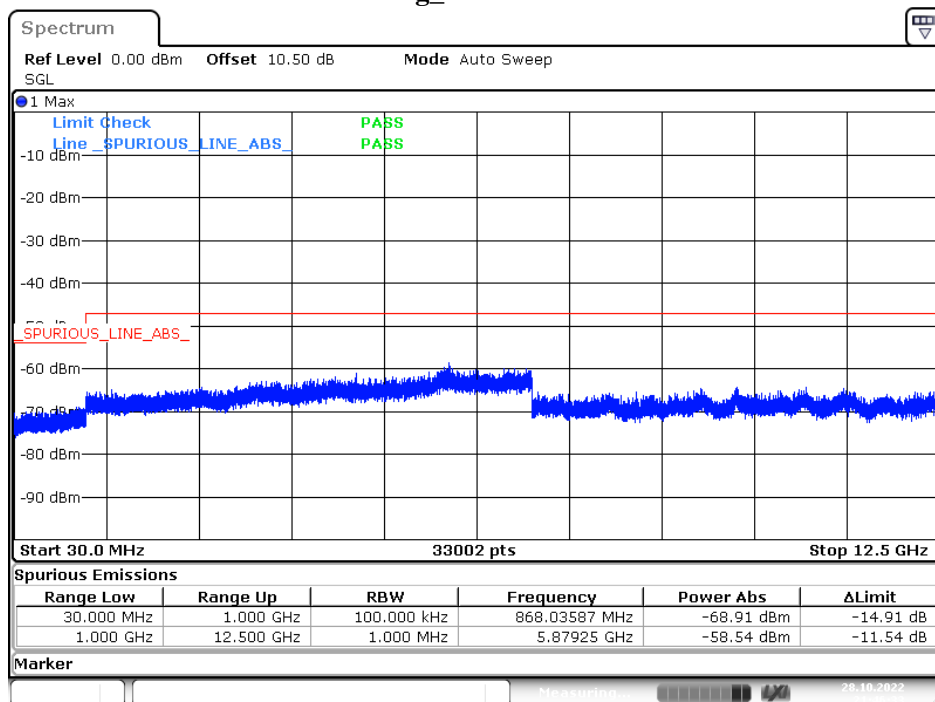
Date: 28.OCT.2022 21:40:17

11g_2442MHz



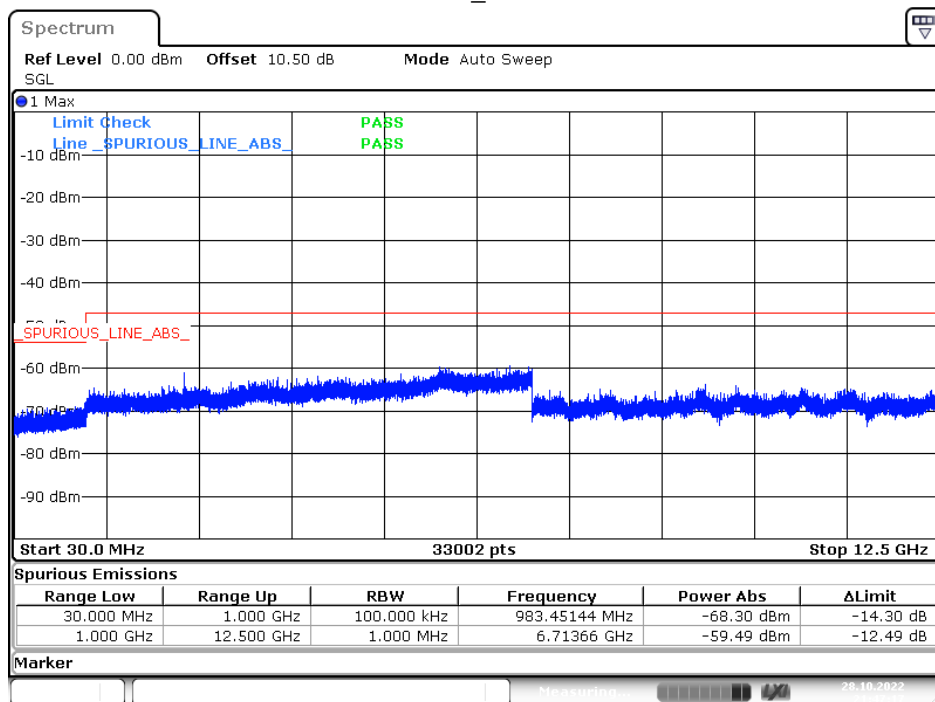
Date: 28.OCT.2022 21:41:22

11g_2472MHz



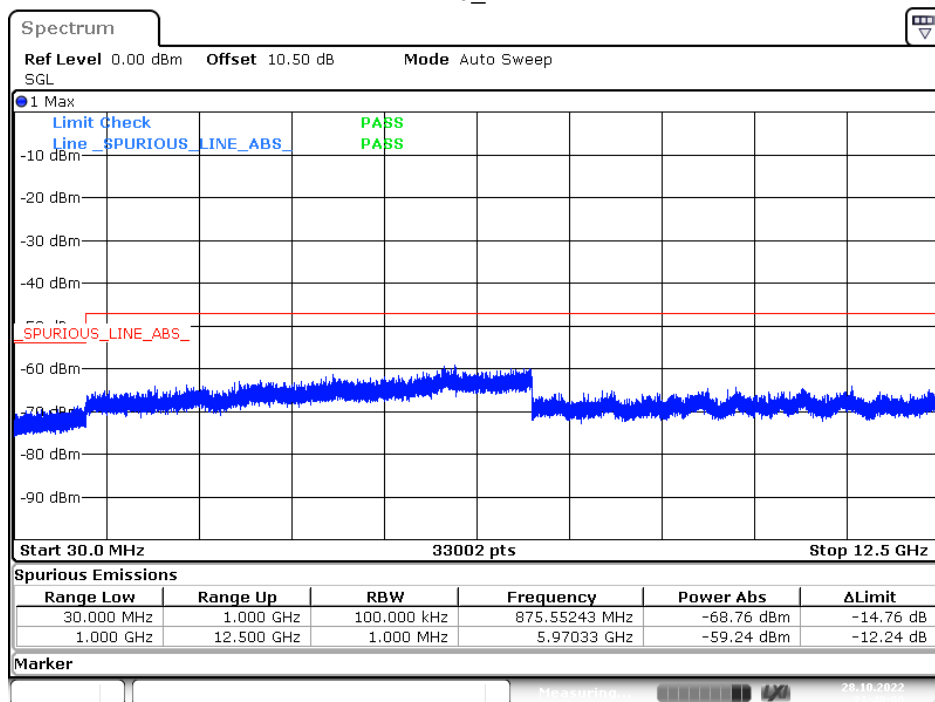
Date: 28.OCT.2022 21:46:33

11n-HT20_2412MHz

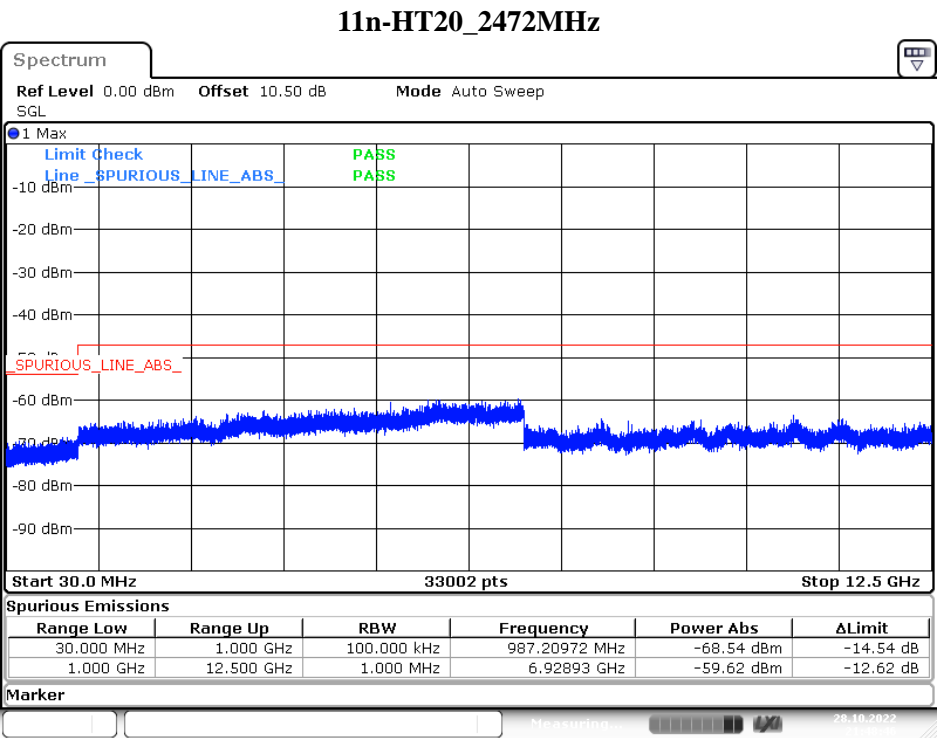


Date: 28.OCT.2022 21:47:17

11n-HT20_2442MHz



Date: 28.OCT.2022 21:48:00



Date: 28.OCT.2022 21:48:46

INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Measurement Result

Environmental Conditions

Temperature:	24℃
Relative Humidity:	49 %
ATM Pressure:	101.0kPa

The testing was performed by Glenn Jiang from 2022-10-27 to 2022-10-28.

Test Result: Good

CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

The EUT has shielding cover for the high-frequency section and modulation section of the radio which can't be opened easily, please see the EUT photos.

****END OF REPORT****