



FCC RF Test Report

APPLICANT : TCL Communication Ltd.
EQUIPMENT : GSM/UMTS/LTE Mobile phone
BRAND NAME : TCL
MODEL NAME : T434D
FCC ID : 2ACCJH180
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Oct. 19, 2023 ~ Nov. 10, 2023

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Kunshan).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR3O1004C	Rev. 01	Initial issue of report	Nov. 22, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.49 dB at 2389.52 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.92 dB at 0.56 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.2 Manufacturer

TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	GSM/UMTS/LTE Mobile phone
Brand Name	TCL
Model Name	T434D
FCC ID	2ACCJH180
IMEI Code	Conducted: 016500000012071 Conduction: 016500000013301 Radiation: 016500000013442
HW Version	02
SW Version	6XS9
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 22.05 dBm (0.1603 W) 802.11g : 24.92 dBm (0.3105 W) 802.11n HT20 : 25.02 dBm (0.3177 W) 802.11n HT40 : 25.26 dBm (0.3357 W)
99% Occupied Bandwidth	802.11b : 12.907 MHz 802.11g : 17.822 MHz 802.11n HT20 : 18.422 MHz 802.11n HT40 : 36.683 MHz
Antenna Type / Gain	FPC Antenna with gain -0.35 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

Note: Test data subcontracted: conducted test case in this report.

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test systemChina_210602	3.3.10
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24
3.	CO01-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-



2.2 Test Mode

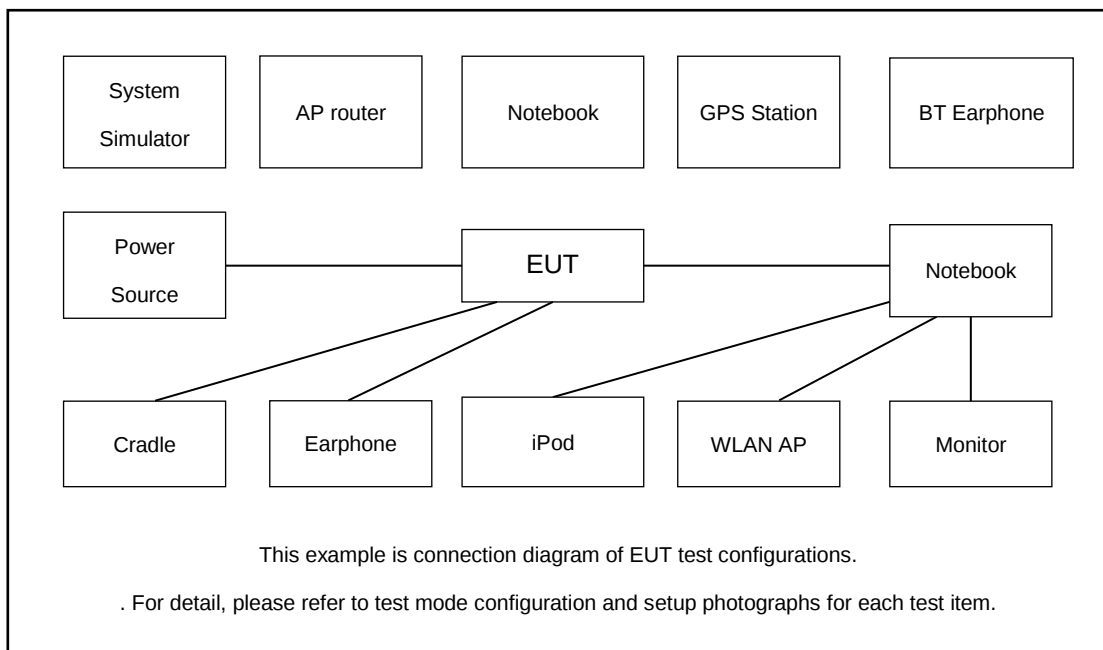
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + WLAN Link (2.4G) + USB Cable 2(Charging from Adapter 2) + Earphone + Battery 1
Remark: For Radiated Test Cases, The tests were performance with Adapter 2, Battery 1, Earphone, USB Cable 2	

Simultaneous transmission
11n HT40_Tx_Ch03 + LTE Band 41 Link

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
3.	Earphone	apple	DCAY1V-A900FZJW3-000	N/A	N/A	N/A
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A



2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.0 dB

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 6.0 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

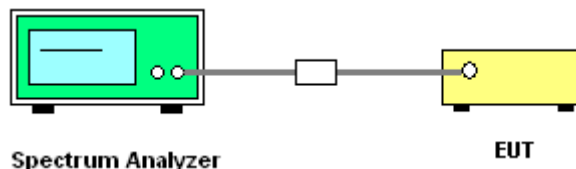
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

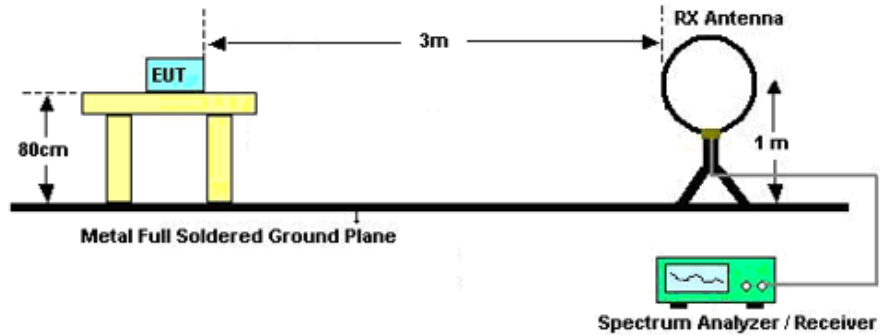
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

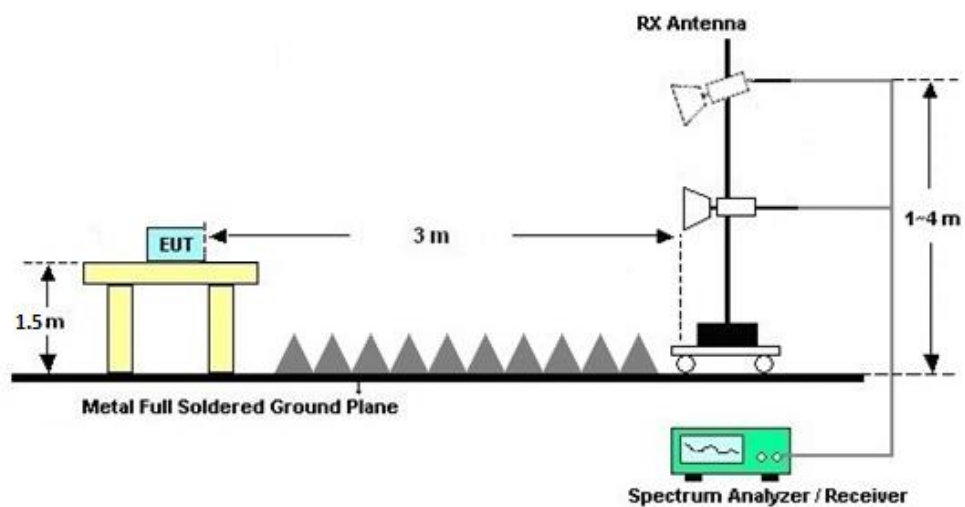
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

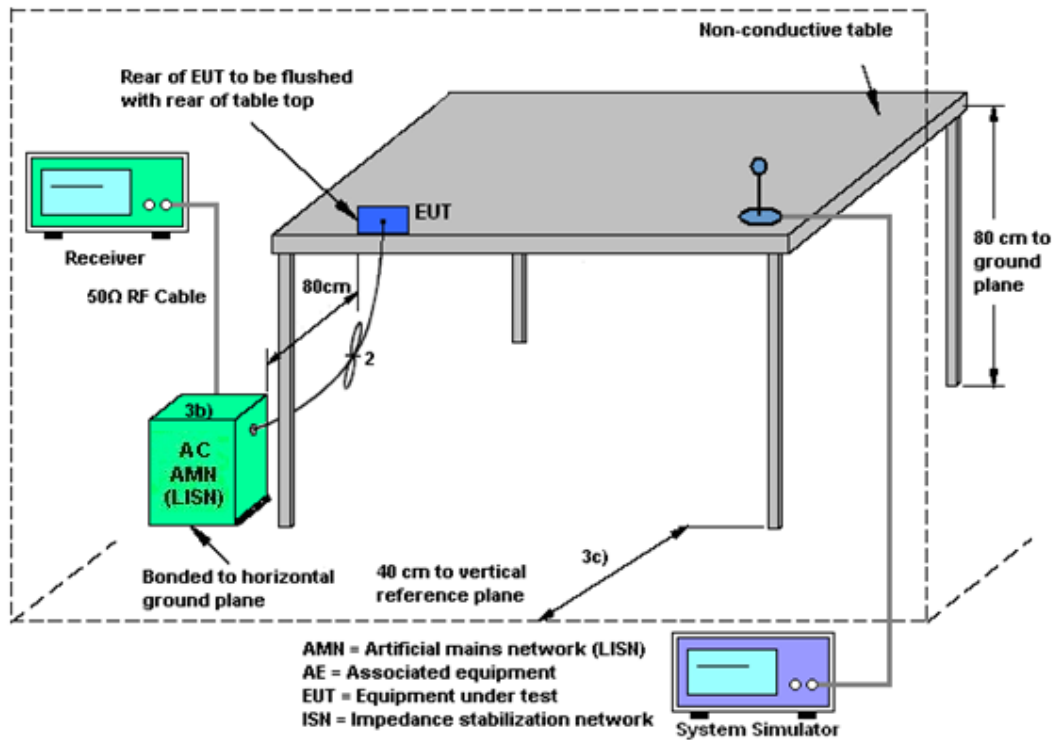
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Oct. 20, 2023 ~Oct. 31, 2023	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Oct. 20, 2023 ~Oct. 31, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Oct. 20, 2023 ~Oct. 31, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 19, 2023 ~Nov. 10, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May. 14, 2023	Oct. 19, 2023 ~Nov. 10, 2023	May. 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-001 01800-30-10 P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5G Hz	Aug. 21, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Oct. 19, 2023 ~Nov. 10, 2023	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 19, 2023 ~Nov. 10, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 19, 2023 ~Nov. 10, 2023	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Oct. 30, 2023	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Oct. 30, 2023	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Oct. 30, 2023	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Oct. 30, 2023	Jul. 06, 2024	Conduction (CO01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.7dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
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----- THE END -----



Appendix A. Conducted Test Results

**Ambient Condition:** 25 °C, 45 %RH**Test Date:** 2023.10.20-2023.10.31**Test Engineer:** Albert shi

Peak Output Power

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant2	Ant2	Ant2	Ant2	Ant2	
11b	1Mbps	1	1	2412	21.42	30.00	-0.35	21.07	36.00	Pass
11b	1Mbps	1	6	2437	21.54	30.00	-0.35	21.19	36.00	Pass
11b	1Mbps	1	11	2462	22.05	30.00	-0.35	21.70	36.00	Pass
11g	6Mbps	1	1	2412	24.92	30.00	-0.35	24.57	36.00	Pass
11g	6Mbps	1	6	2437	24.51	30.00	-0.35	24.16	36.00	Pass
11g	6Mbps	1	11	2462	24.72	30.00	-0.35	24.37	36.00	Pass
HT20	MCS0	1	1	2412	25.02	30.00	-0.35	24.67	36.00	Pass
HT20	MCS0	1	6	2437	24.61	30.00	-0.35	24.26	36.00	Pass
HT20	MCS0	1	11	2462	24.87	30.00	-0.35	24.52	36.00	Pass
HT40	MCS0	1	3	2422	25.26	30.00	-0.35	24.91	36.00	Pass
HT40	MCS0	1	6	2437	25.15	30.00	-0.35	24.80	36.00	Pass
HT40	MCS0	1	9	2452	24.90	30.00	-0.35	24.55	36.00	Pass

**Average Output Power (Reference only)**

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 2	Ant2	Ant2	Ant2	Ant2	Ant2	
11b	1Mbps	1	1	2412	0.04	19.07	30.00	-0.35	18.72	36.00	Pass
11b	1Mbps	1	6	2437	0.04	19.10	30.00	-0.35	18.75	36.00	Pass
11b	1Mbps	1	11	2462	0.04	19.49	30.00	-0.35	19.14	36.00	Pass
11g	6Mbps	1	1	2412	0.14	18.51	30.00	-0.35	18.16	36.00	Pass
11g	6Mbps	1	6	2437	0.14	18.73	30.00	-0.35	18.38	36.00	Pass
11g	6Mbps	1	11	2462	0.14	19.18	30.00	-0.35	18.83	36.00	Pass
HT20	MCS0	1	1	2412	0.14	18.72	30.00	-0.35	18.37	36.00	Pass
HT20	MCS0	1	6	2437	0.14	18.78	30.00	-0.35	18.43	36.00	Pass
HT20	MCS0	1	11	2462	0.14	19.26	30.00	-0.35	18.91	36.00	Pass
HT40	MCS0	1	3	2422	0.28	18.23	30.00	-0.35	17.88	36.00	Pass
HT40	MCS0	1	6	2437	0.28	17.49	30.00	-0.35	17.14	36.00	Pass
HT40	MCS0	1	9	2452	0.28	17.76	30.00	-0.35	17.41	36.00	Pass

Note: the duty factor have been added to the final results.



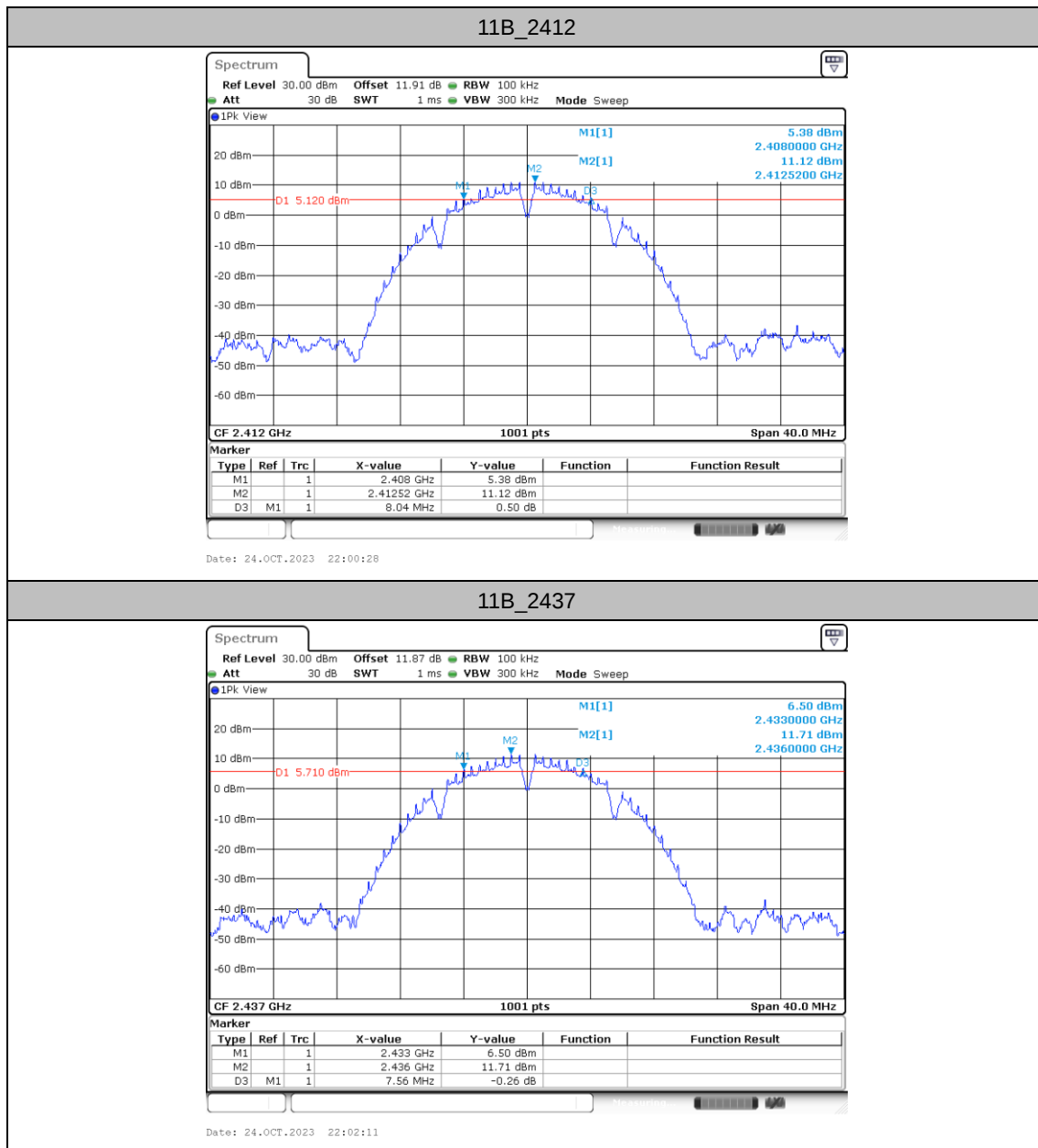
DTS Bandwidth

Test Result

TestMode	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	8.04	2408.00	2416.04	0.5	PASS
	2437	7.56	2433.00	2440.56	0.5	PASS
	2462	7.56	2457.96	2465.52	0.5	PASS
11G	2412	15.12	2404.44	2419.56	0.5	PASS
	2437	15.12	2429.44	2444.56	0.5	PASS
	2462	15.12	2454.44	2469.56	0.5	PASS
11N20SISO	2412	15.60	2404.20	2419.80	0.5	PASS
	2437	15.96	2429.20	2445.16	0.5	PASS
	2462	15.12	2454.44	2469.56	0.5	PASS
11N40SISO	2422	35.12	2404.48	2439.60	0.5	PASS
	2437	35.12	2419.48	2454.60	0.5	PASS
	2452	35.12	2434.48	2469.60	0.5	PASS

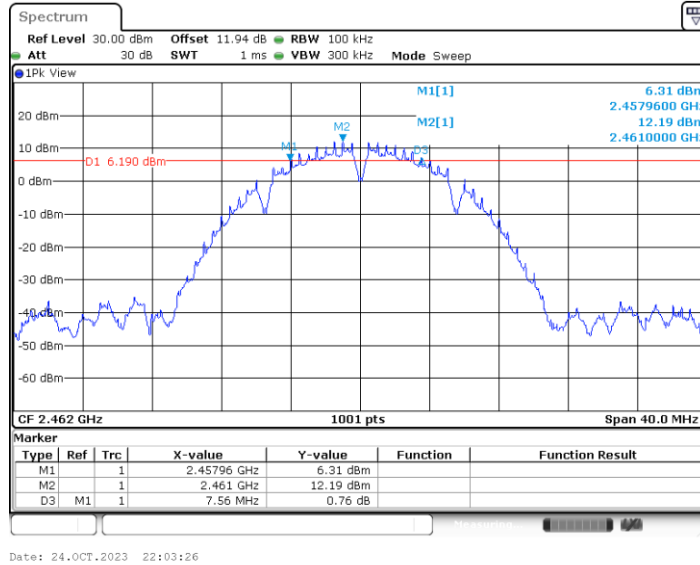


Test Graphs

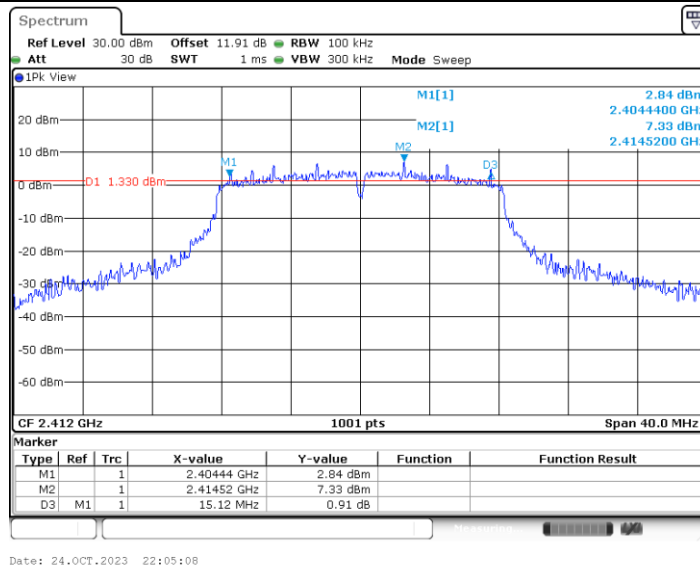




11B_2462

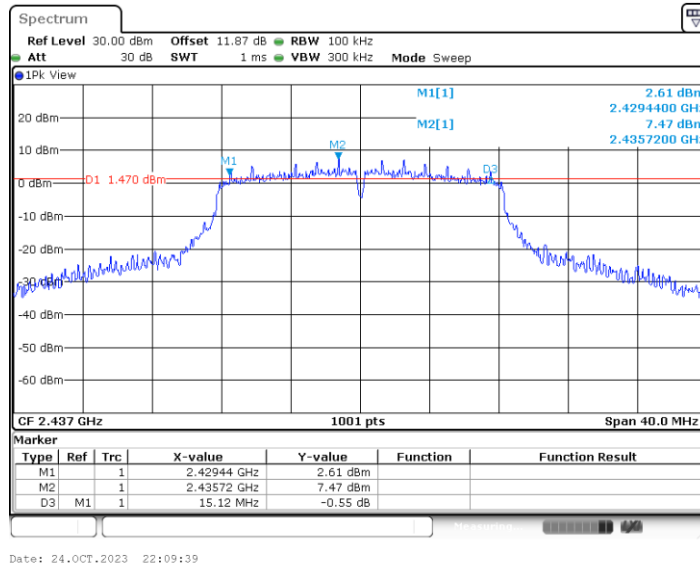


11G_2412

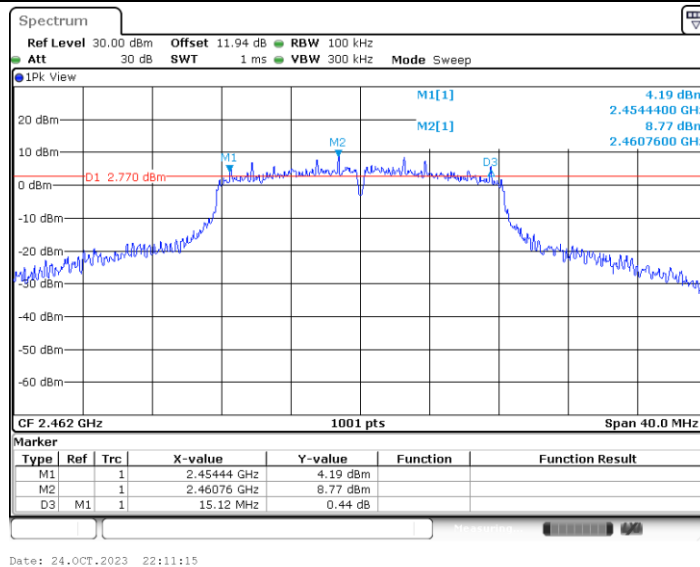




11G_2437

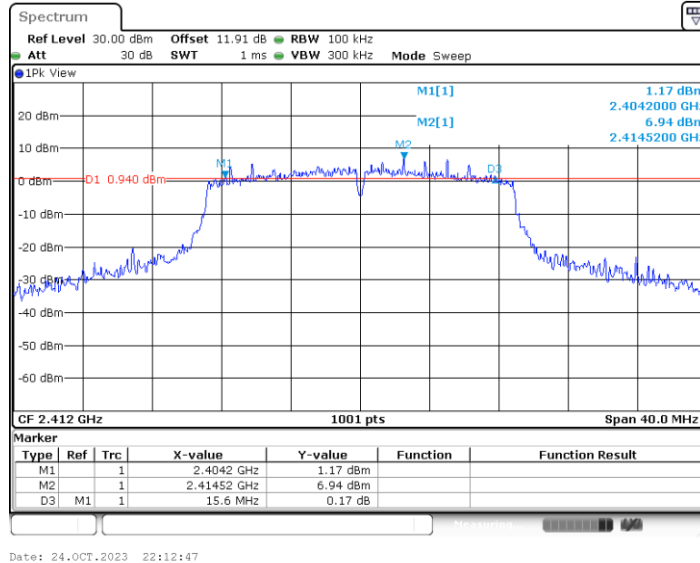


11G_2462

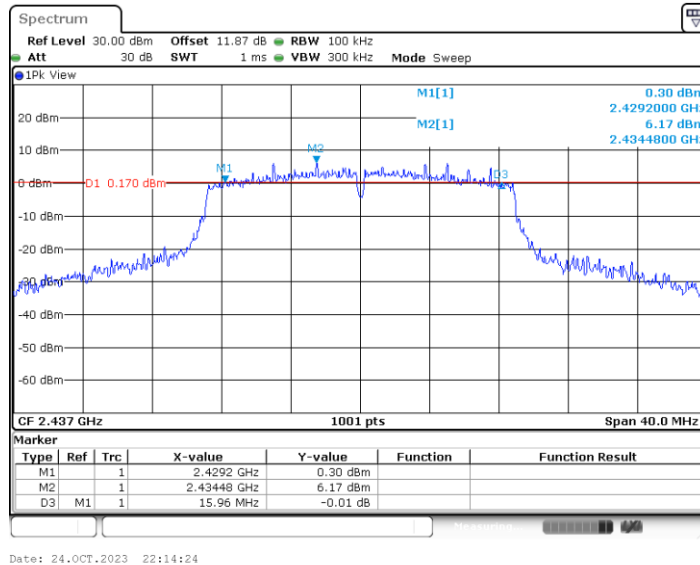




11N20SISO_2412

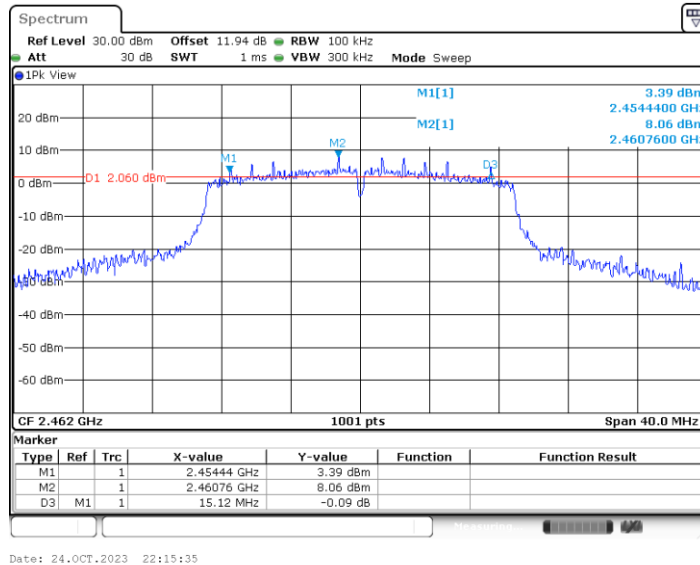


11N20SISO_2437

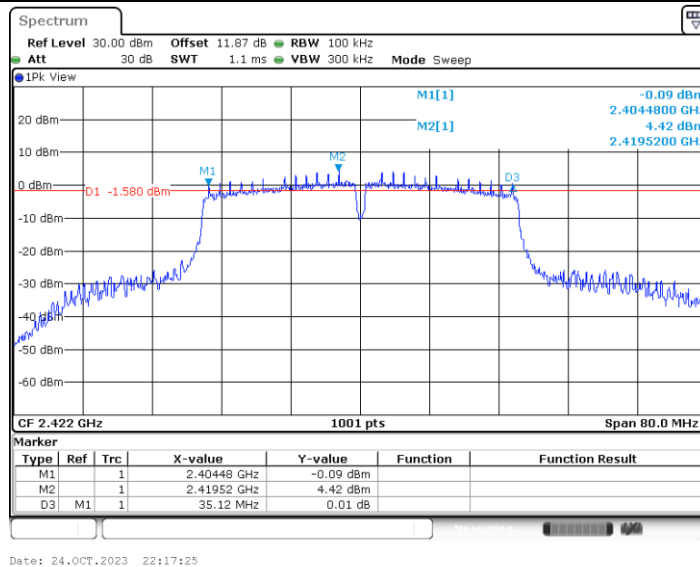




11N20SISO_2462

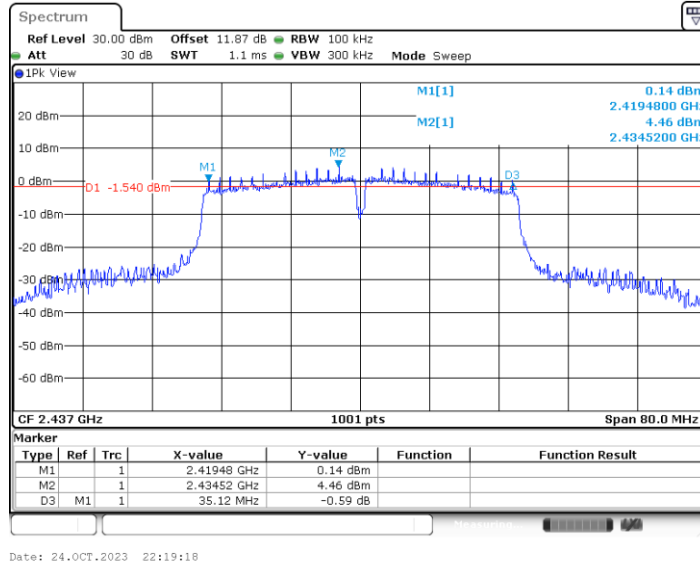


11N40SISO_2422

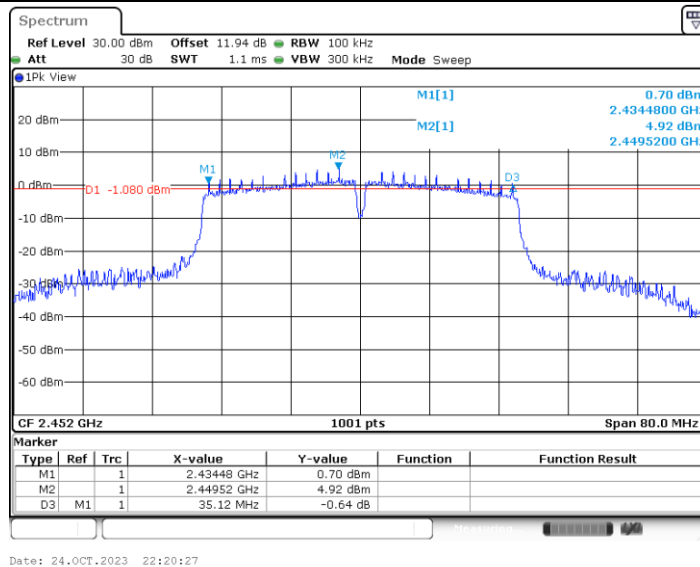




11N40SISO_2437



11N40SISO_2452





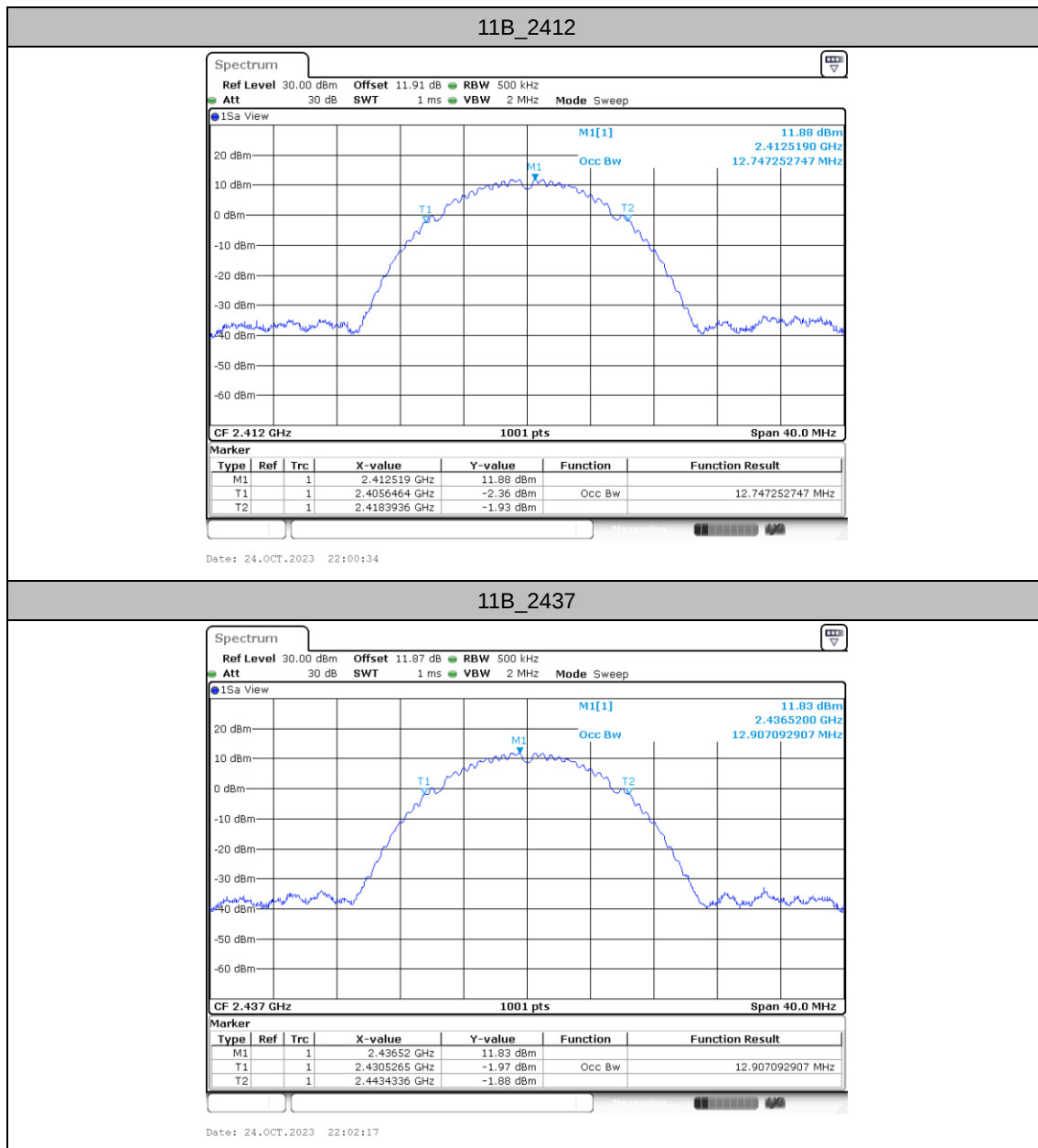
Occupied Channel Bandwidth

Test Result

TestMode	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	12.747	2405.6464	2418.3936
	2437	12.907	2430.5265	2443.4336
	2462	12.907	2455.5265	2468.4336
11G	2412	17.383	2403.3287	2420.7113
	2437	17.463	2428.2887	2445.7512
	2462	17.822	2452.9690	2470.7912
11N20SISO	2412	18.302	2402.8092	2421.1109
	2437	18.382	2427.7692	2446.1508
	2462	18.422	2452.6893	2471.1109
11N40SISO	2422	36.603	2403.7782	2440.3816
	2437	36.683	2418.6184	2455.3017
	2452	36.603	2433.5385	2470.1419

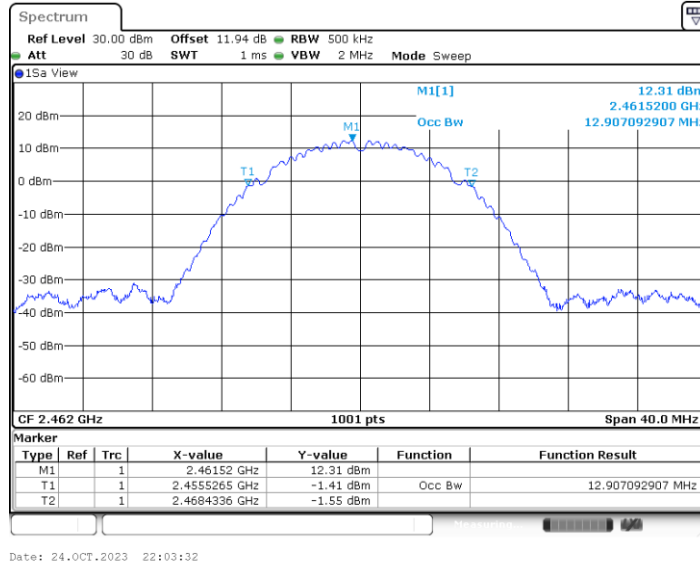


Test Graphs

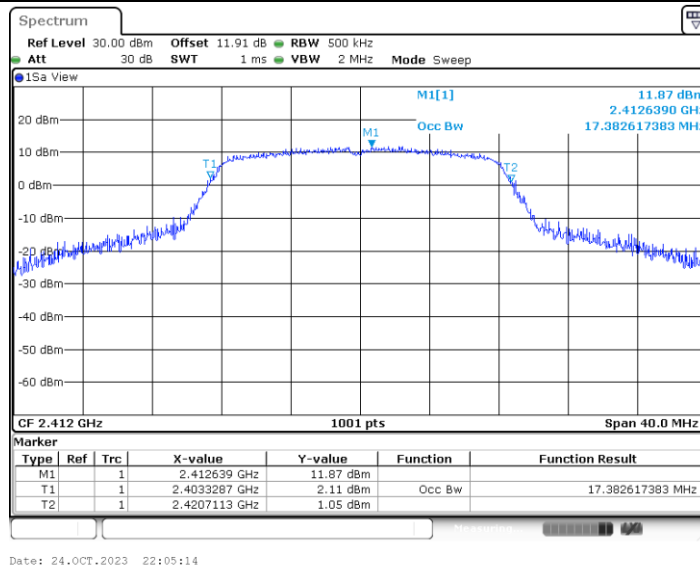




11B_2462

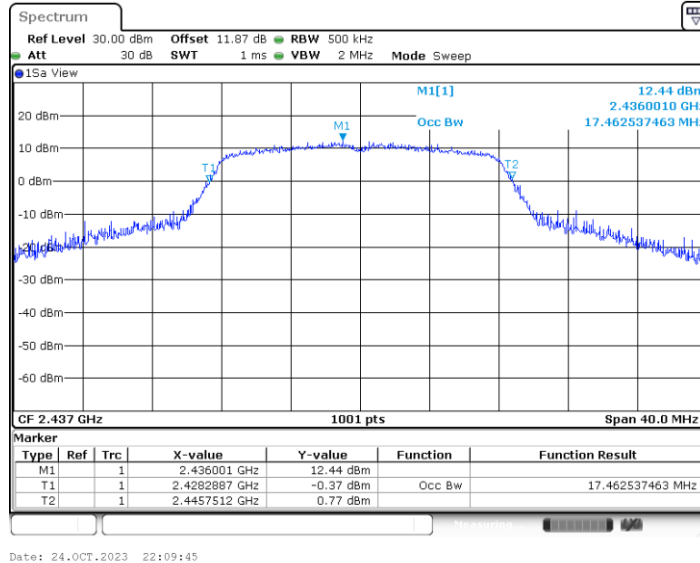


11G_2412

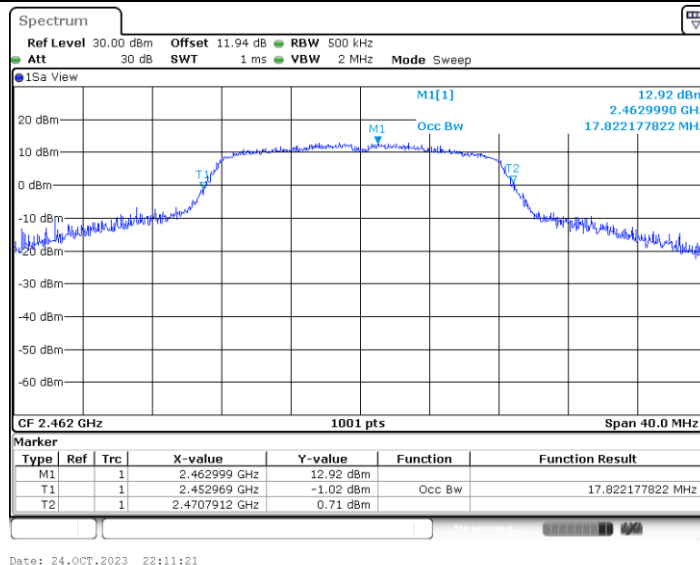




11G_2437

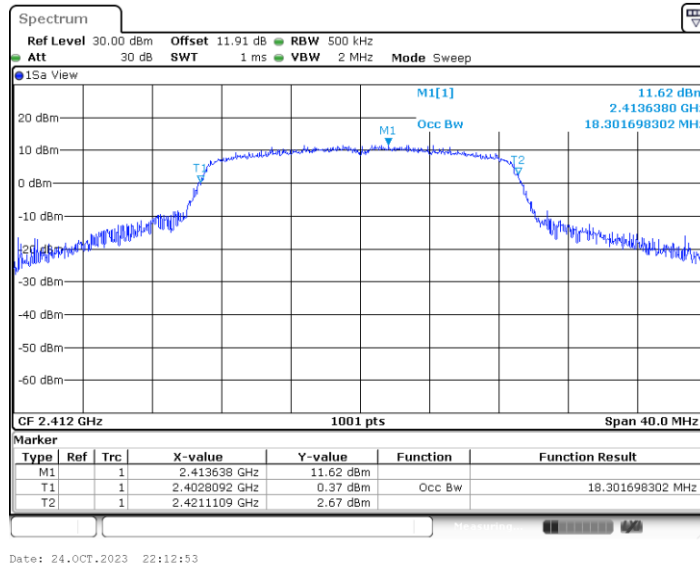


11G_2462

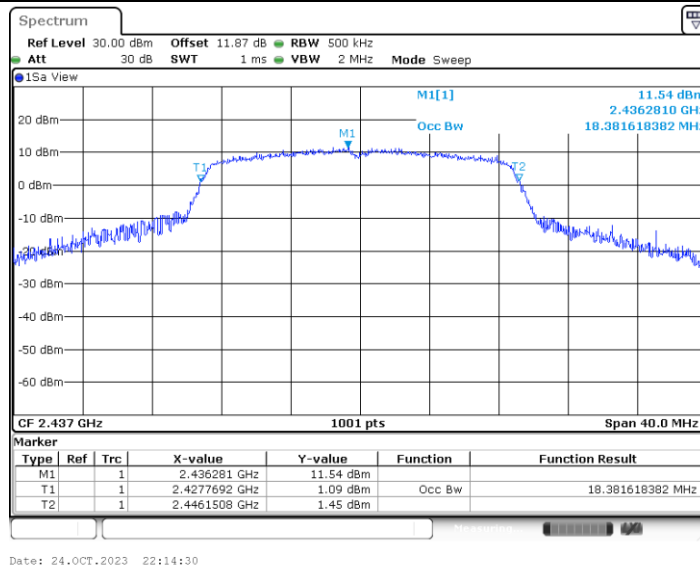




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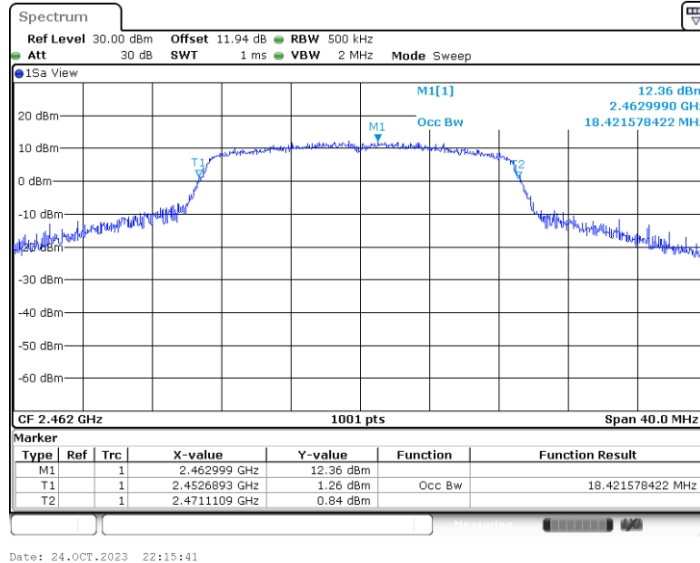


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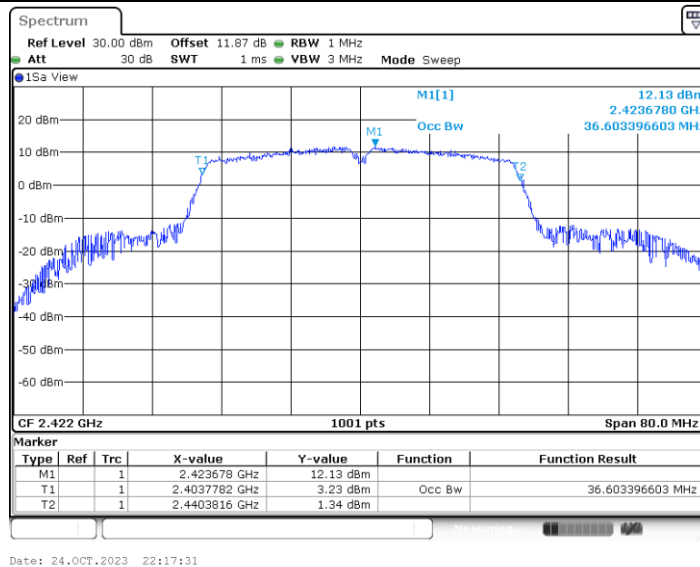




11N20SISO_2462

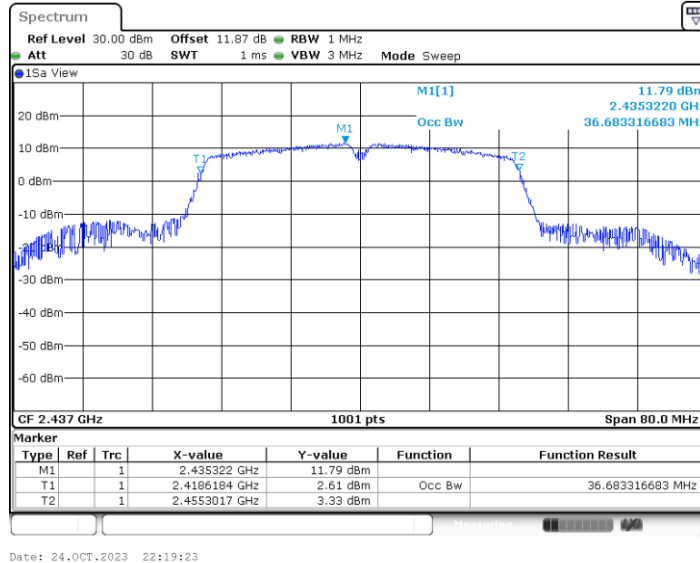


11N40SISO_2422

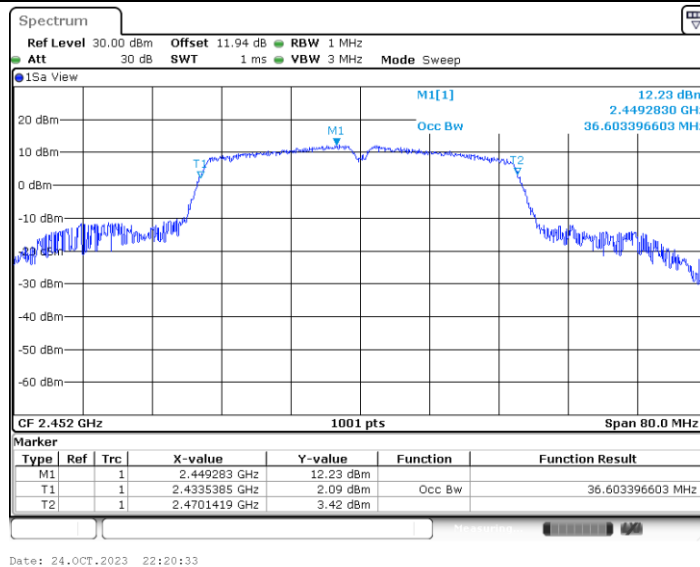




11N40SISO_2437



11N40SISO_2452





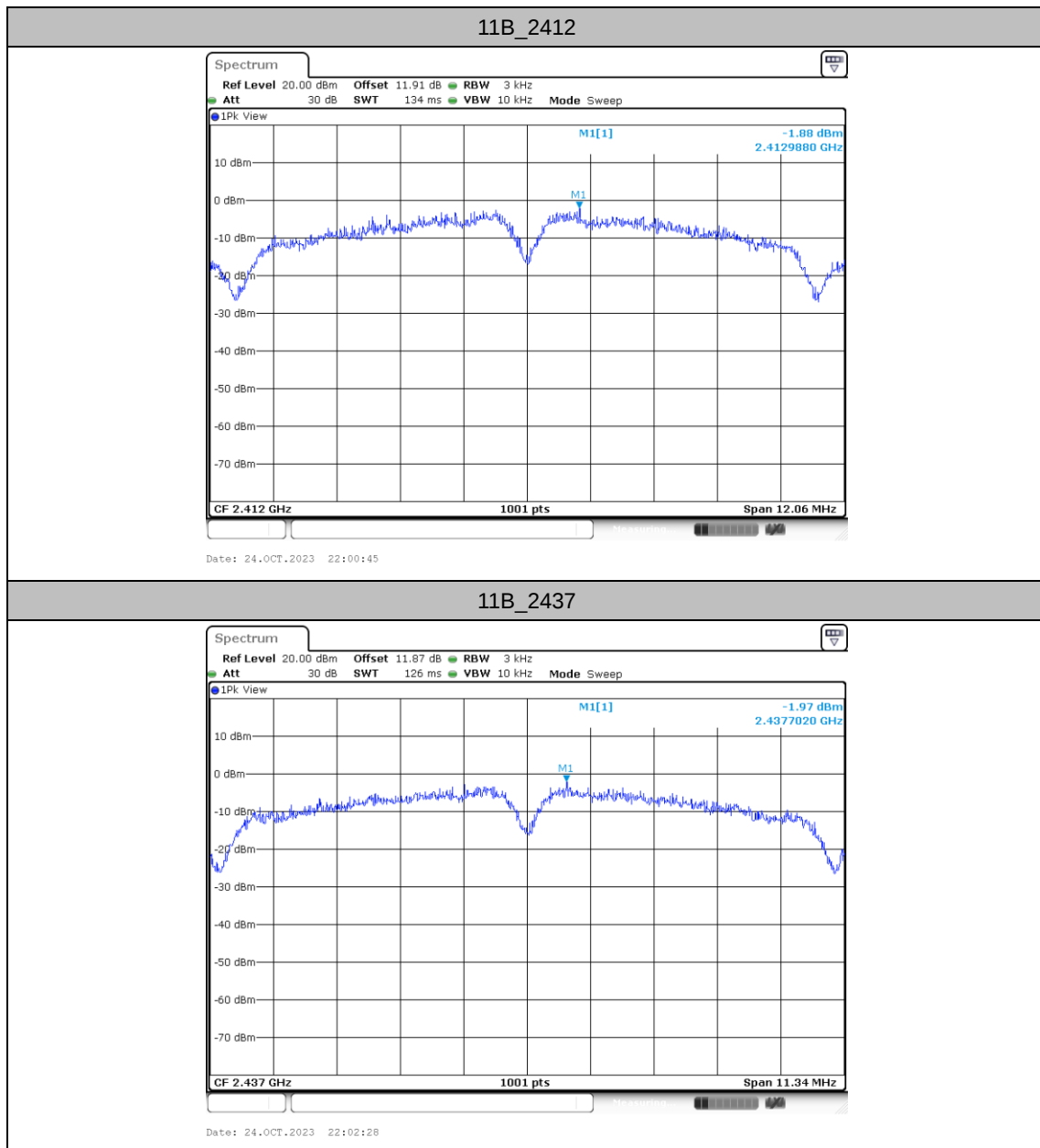
Maximum power spectral density

Test Result

TestMode	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	2412	-1.88	≤8.00	PASS
	2437	-1.97	≤8.00	PASS
	2462	-1.64	≤8.00	PASS
11G	2412	-7.24	≤8.00	PASS
	2437	-5.95	≤8.00	PASS
	2462	-4.64	≤8.00	PASS
11N20SISO	2412	-6.75	≤8.00	PASS
	2437	-7.14	≤8.00	PASS
	2462	-6.3	≤8.00	PASS
11N40SISO	2422	-11.19	≤8.00	PASS
	2437	-10.08	≤8.00	PASS
	2452	-9.55	≤8.00	PASS

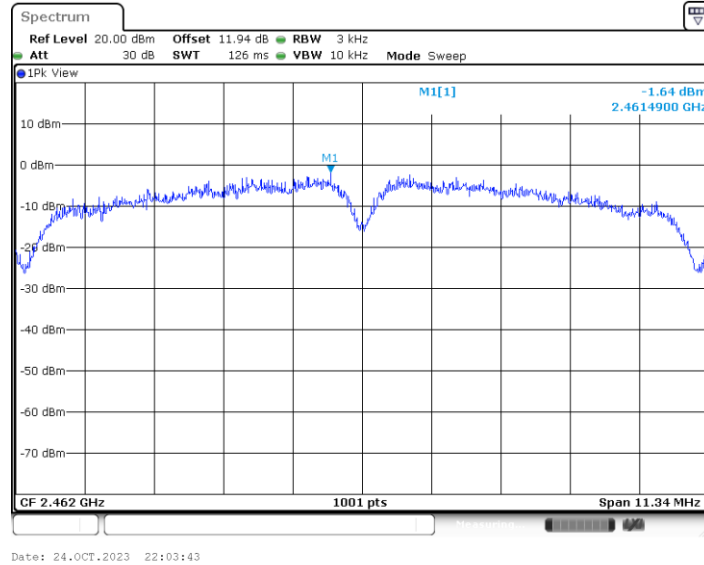


Test Graphs

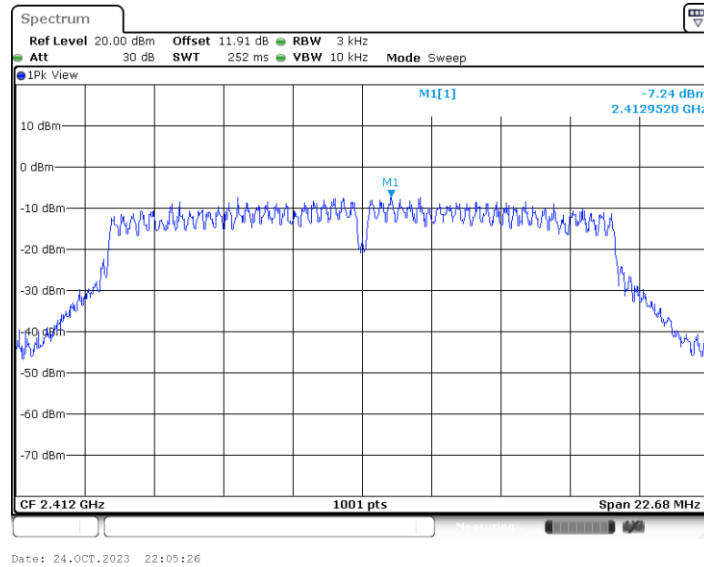




11B_2462

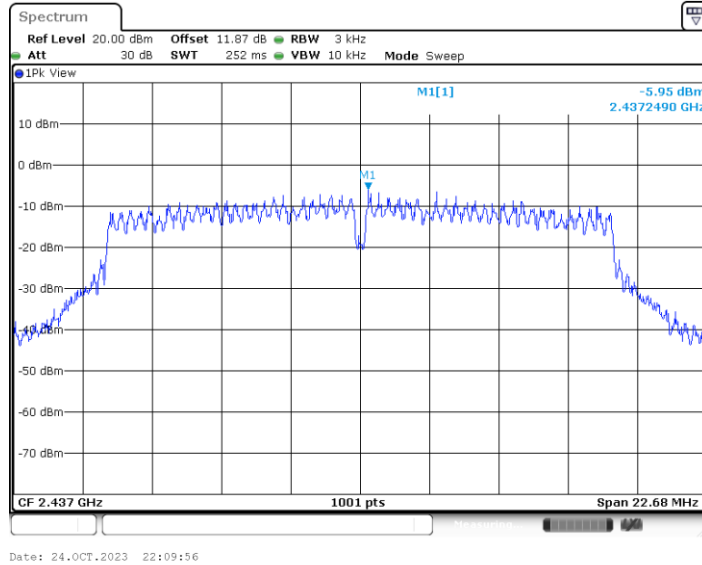


11G_2412

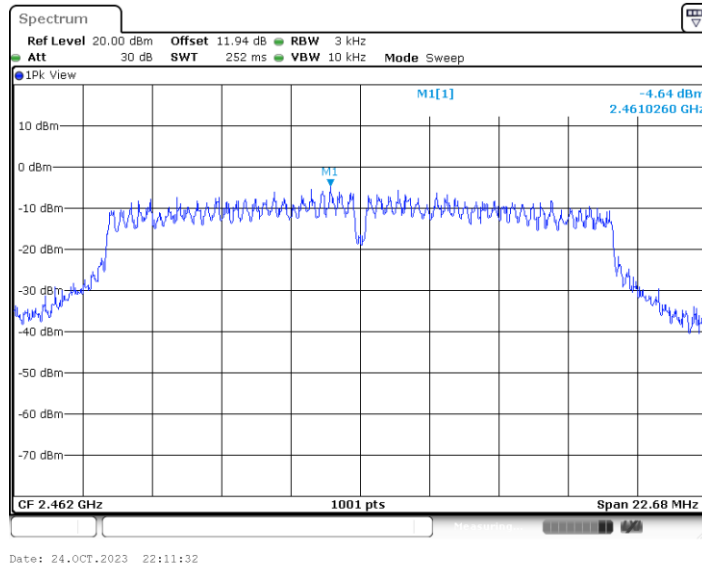




11G_2437

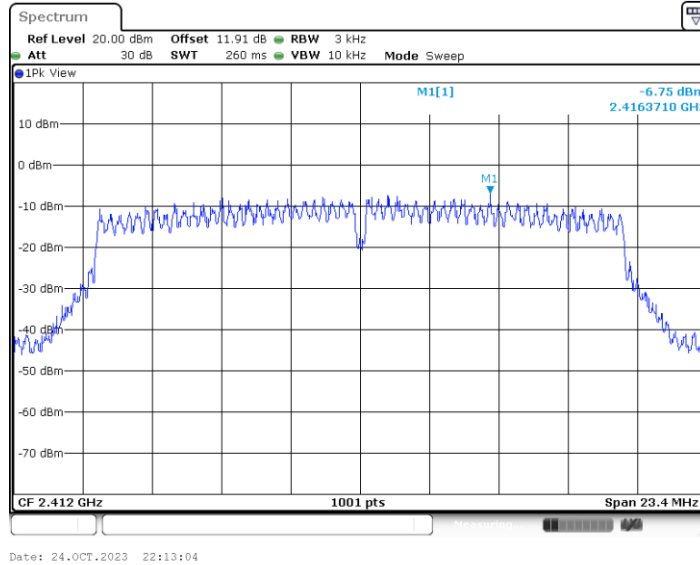


11G_2462

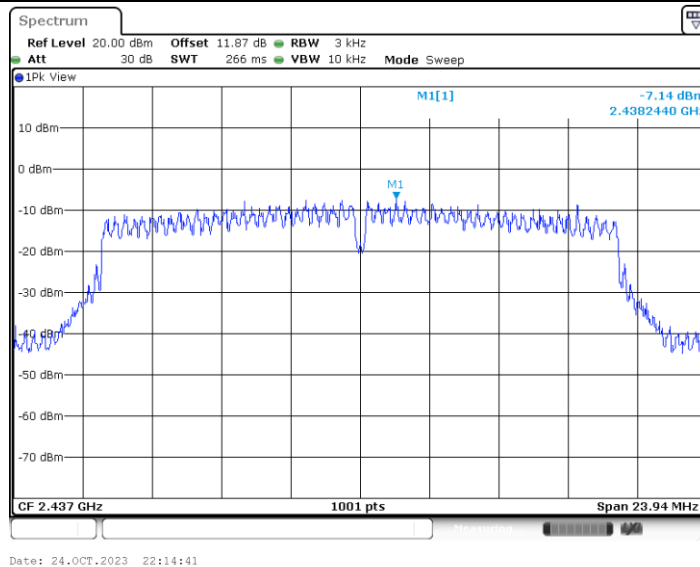




11N20SISO_2412

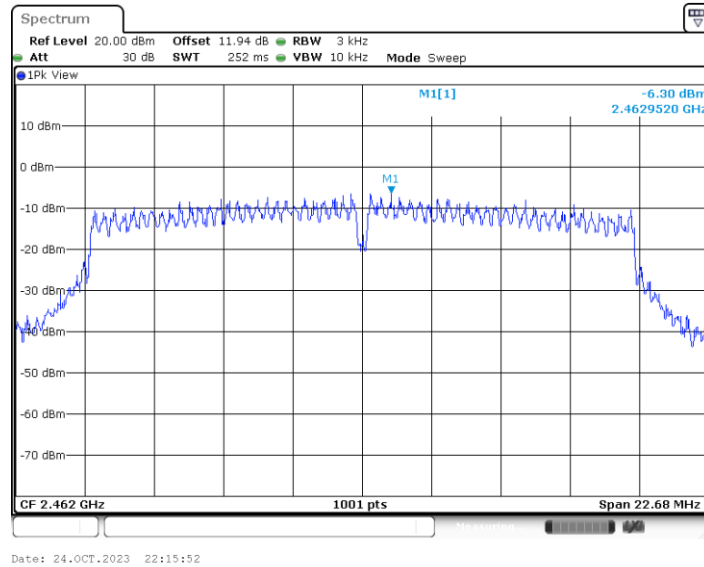


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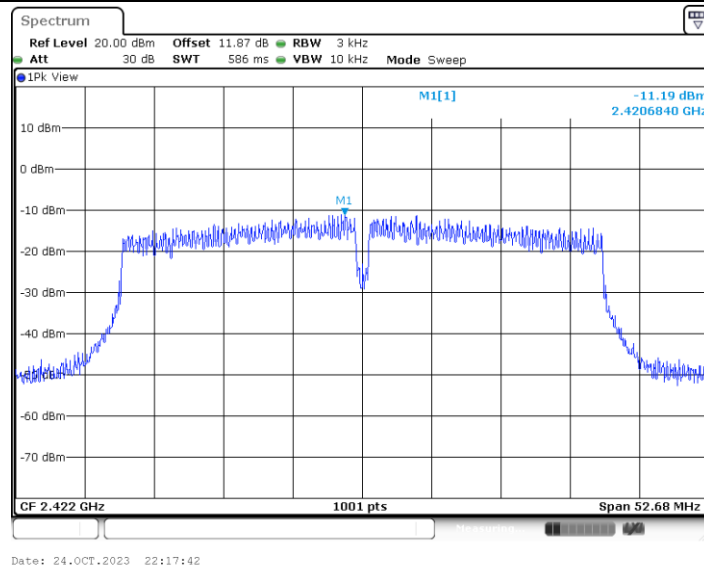




11N20SISO_2462

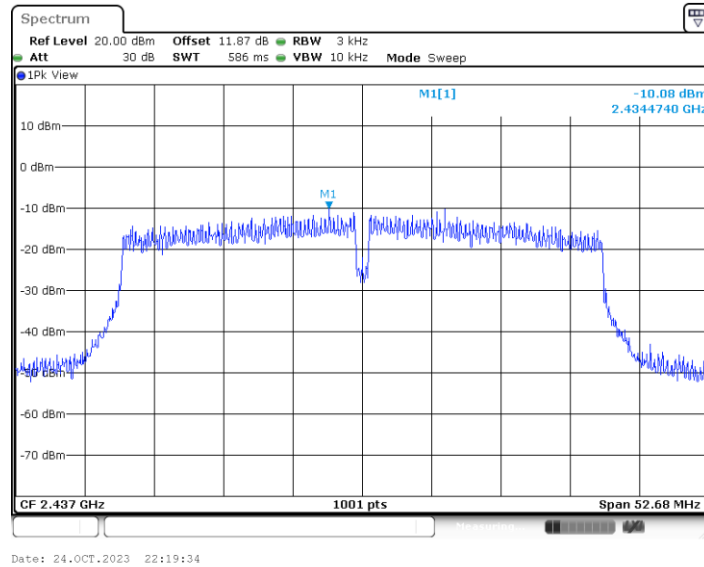


11N40SISO_2422

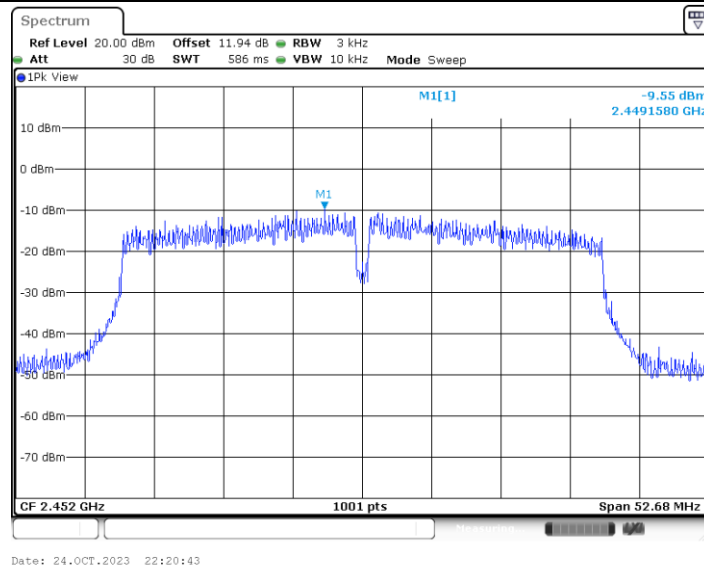




11N40SISO_2437



11N40SISO_2452





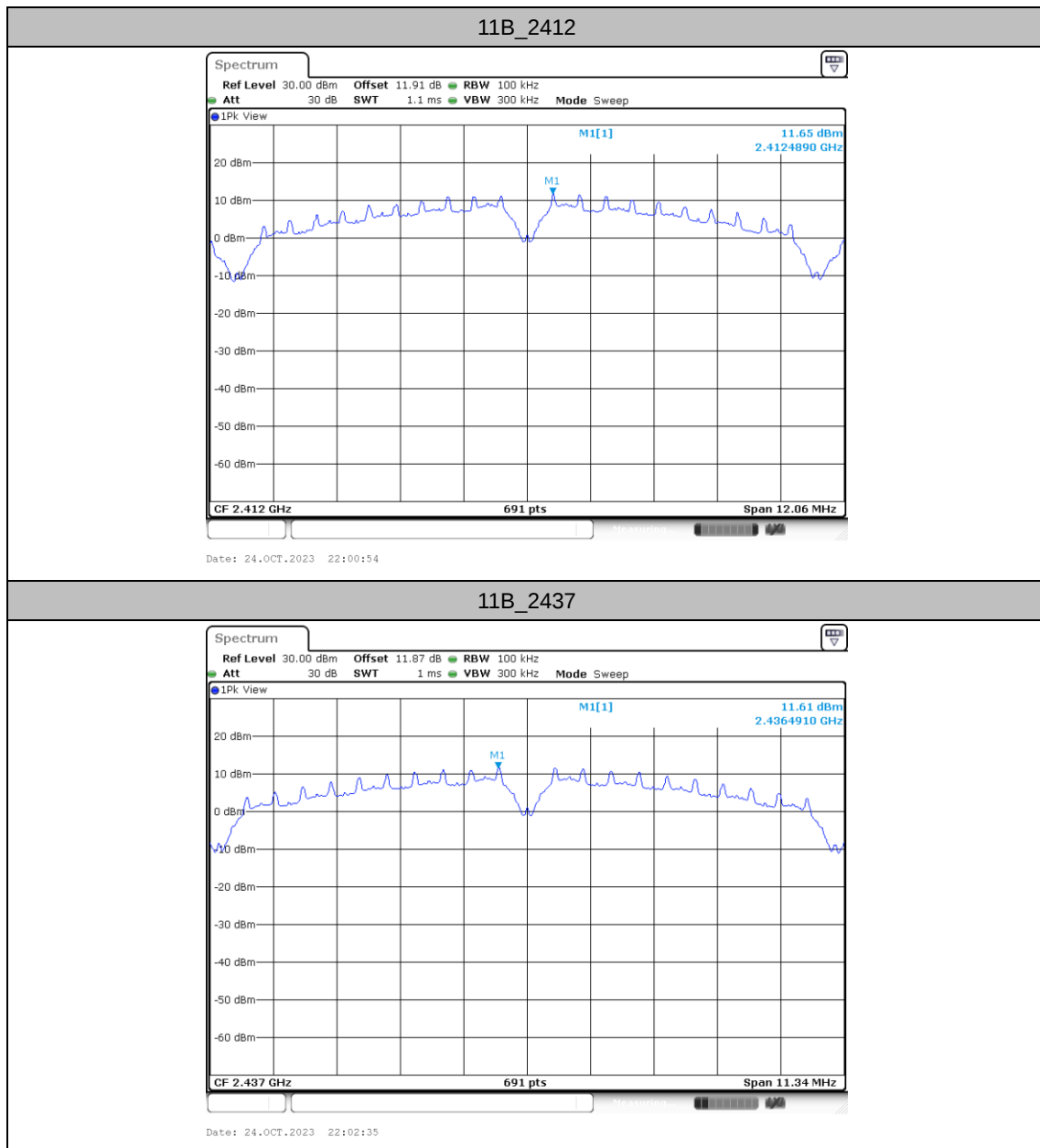
Reference level measurement

Test Result

TestMode	Freq(MHz)	Max.Point[MHz]	Result [dBm/100KHz]
11B	2412	2412.49	11.65
	2437	2436.49	11.61
	2462	2462.49	11.71
11G	2412	2410.72	7.05
	2437	2435.75	7.29
	2462	2460.75	8.41
11N20SISO	2412	2413.25	7.13
	2437	2435.72	7.24
	2462	2460.75	7.89
11N40SISO	2422	2419.48	4.18
	2437	2434.48	4.23
	2452	2449.48	4.73

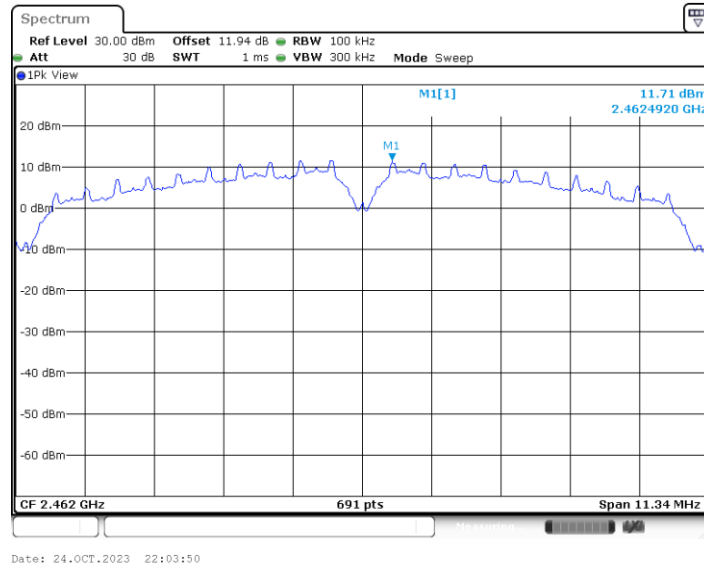


Test Graphs

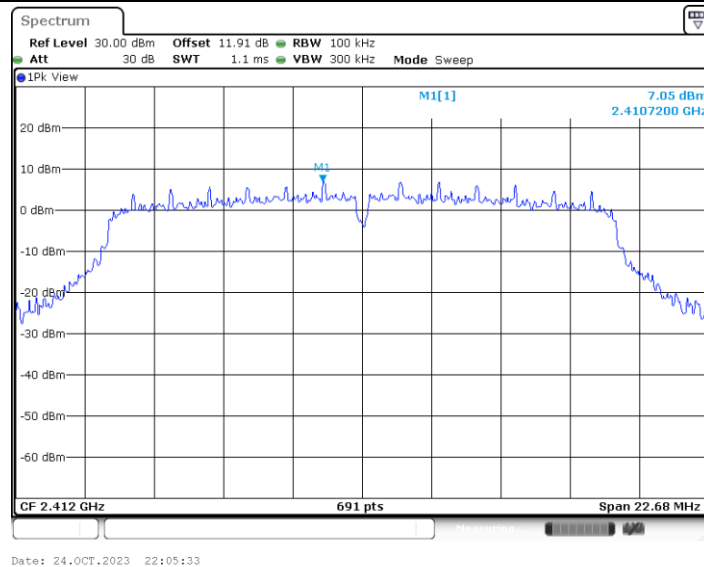




11B_2462

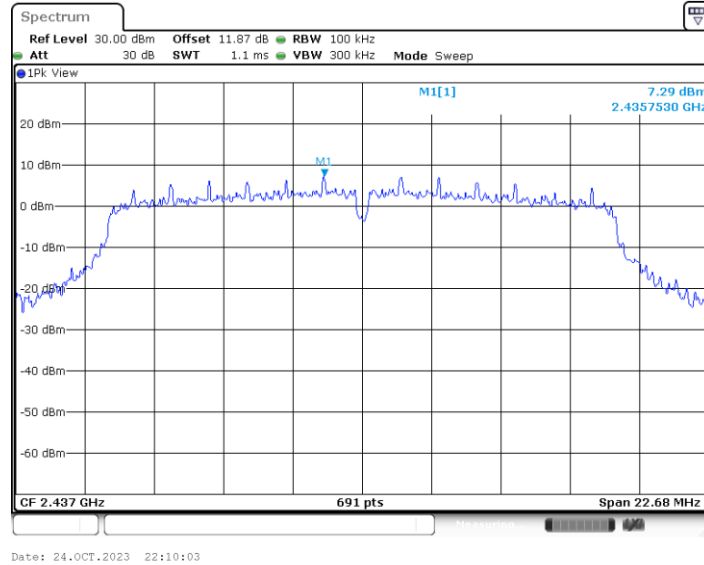


11G_2412

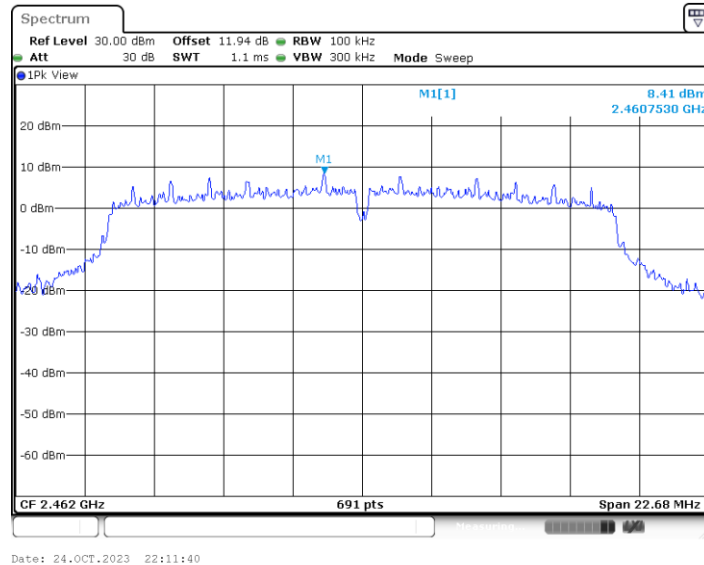




11G_2437

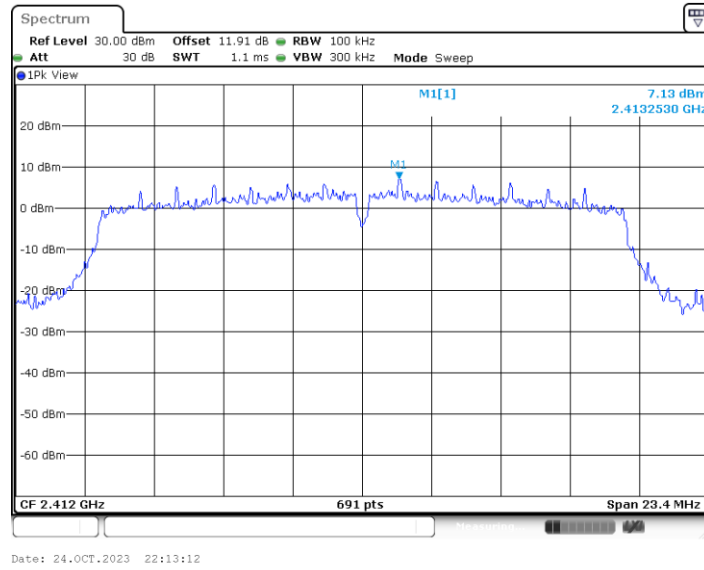


11G_2462

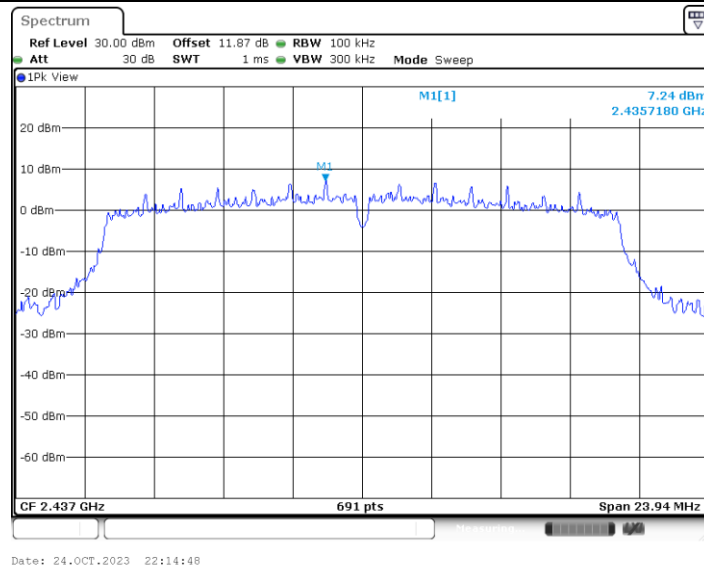




11N20SISO_2412

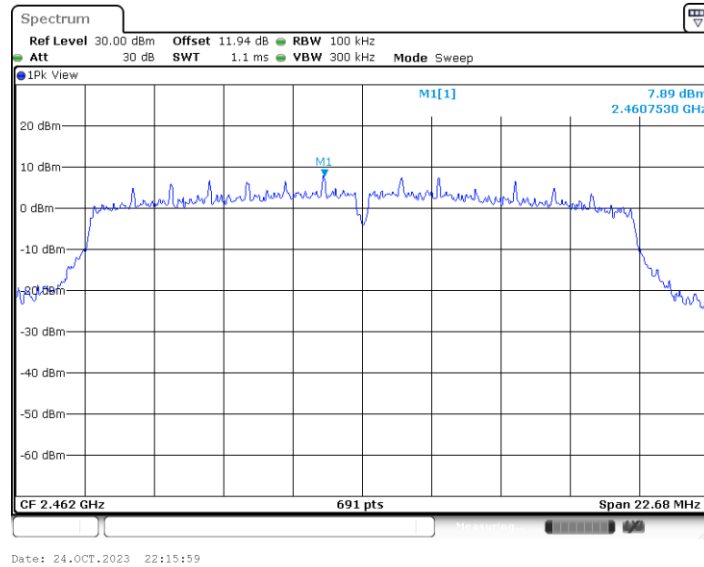


11N20SISO_2437

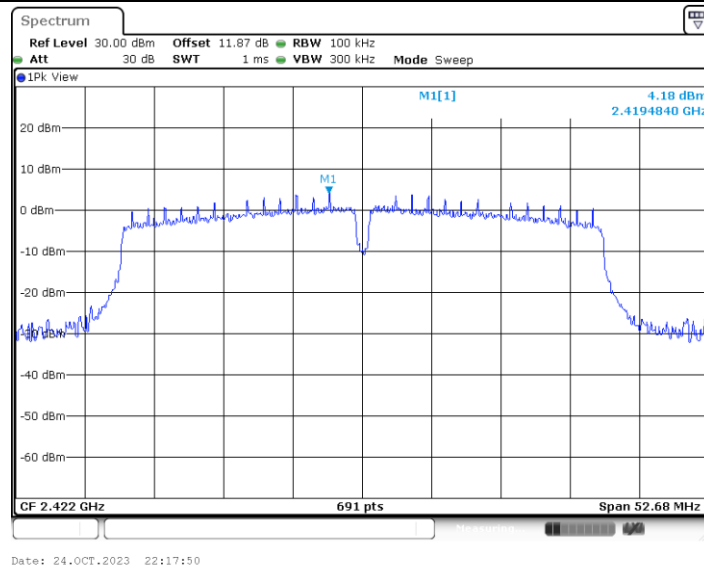




11N20SISO_2462

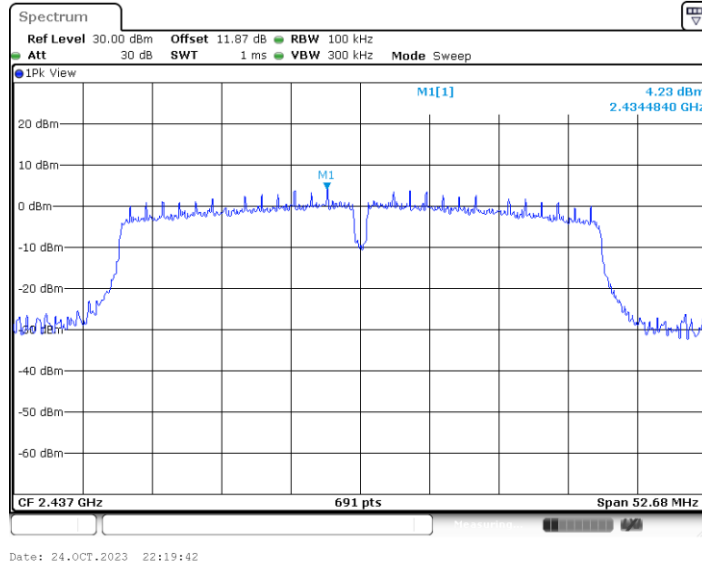


11N40SISO_2422

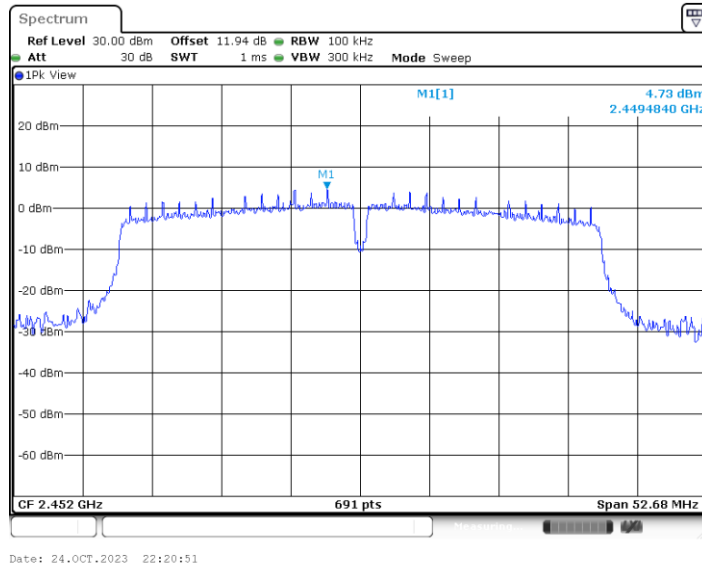




11N40SISO_2437



11N40SISO_2452





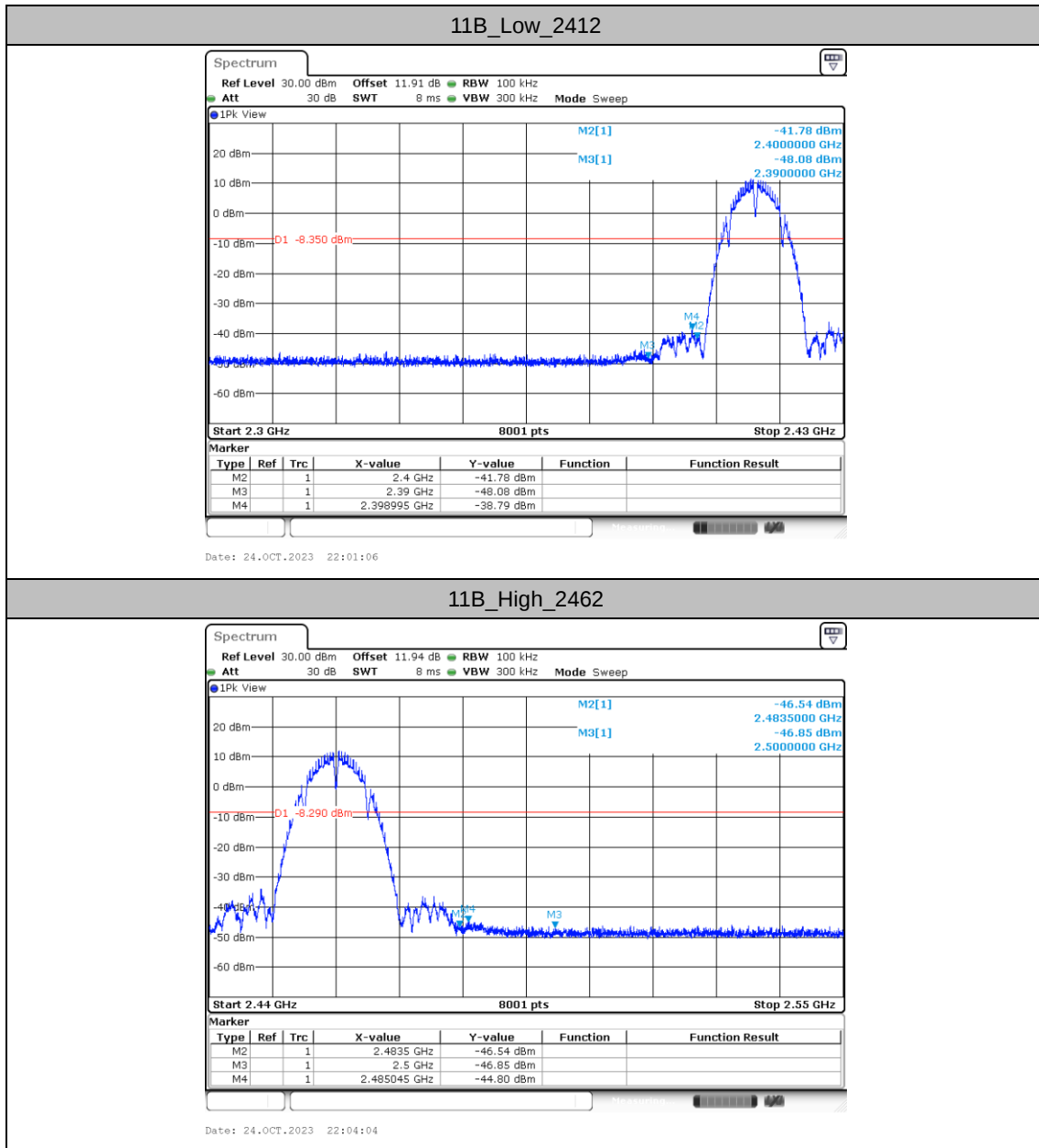
Band edge measurements

Test Result

Test Mode	ChName	Freq (MHz)	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Low	2412	11.65	-38.79	≤ -8.35	PASS
	High	2462	11.71	-44.8	≤ -8.29	PASS
11G	Low	2412	7.05	-22.91	≤ -12.95	PASS
	High	2462	8.41	-31.29	≤ -11.59	PASS
11N20 SISO	Low	2412	7.13	-22.61	≤ -12.87	PASS
	High	2462	7.89	-32.42	≤ -12.11	PASS
11N40 SISO	Low	2422	4.18	-25.61	≤ -15.82	PASS
	High	2452	4.73	-29.86	≤ -15.27	PASS

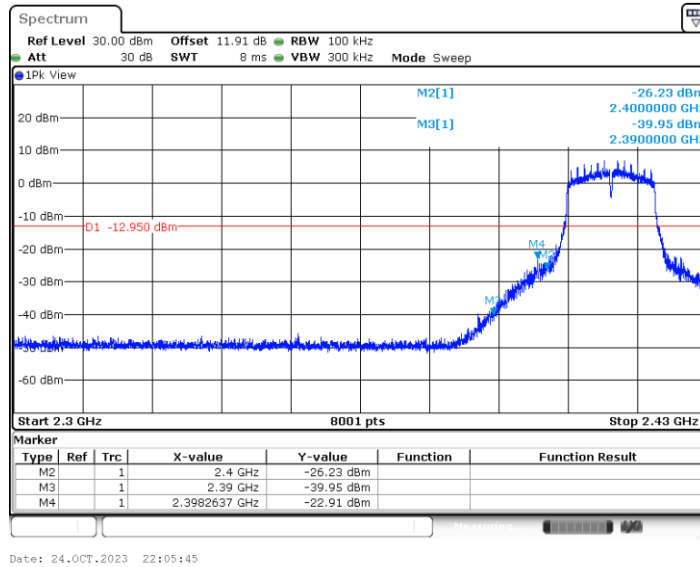


Test Graphs

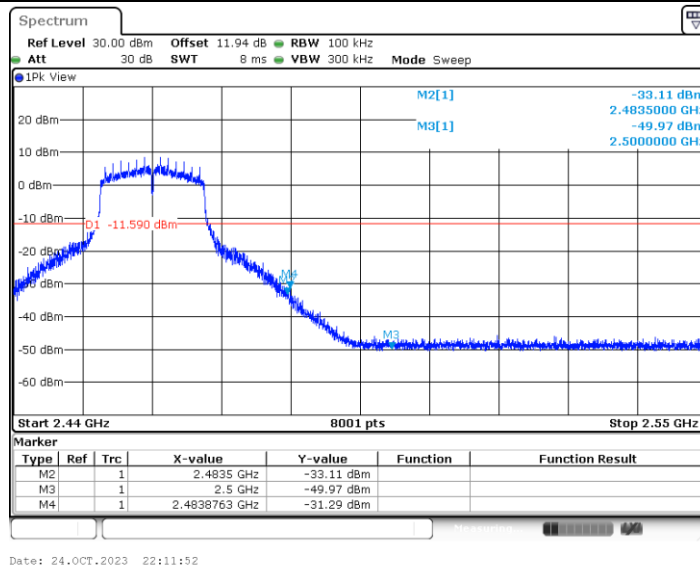




11G_Low_2412

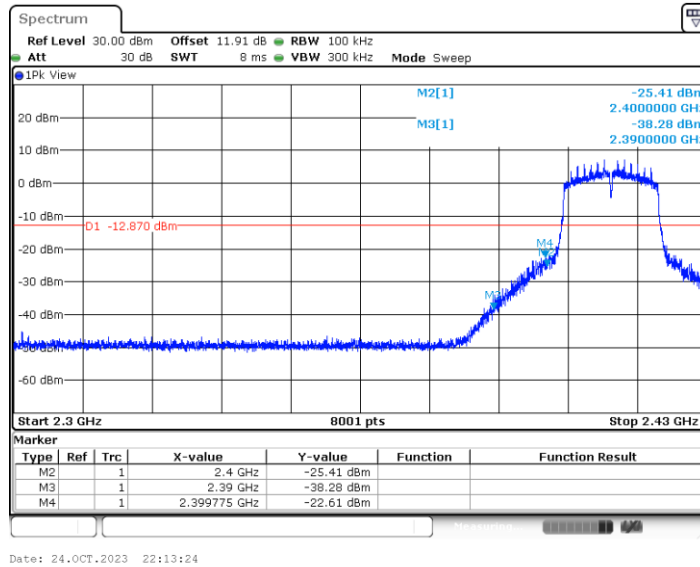


11G_High_2462

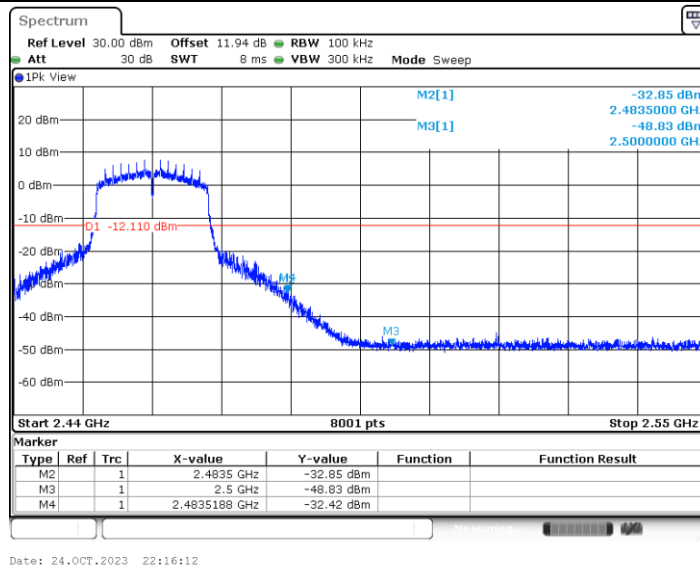




11N20SISO_Low_2412

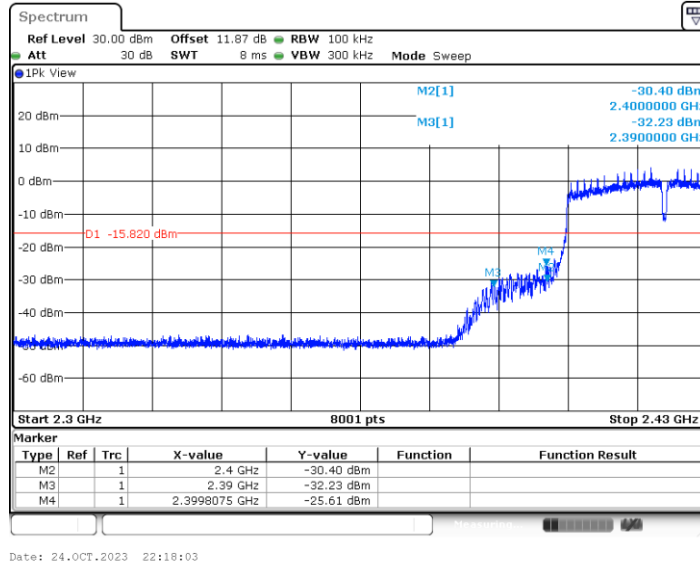


11N20SISO_High_2462

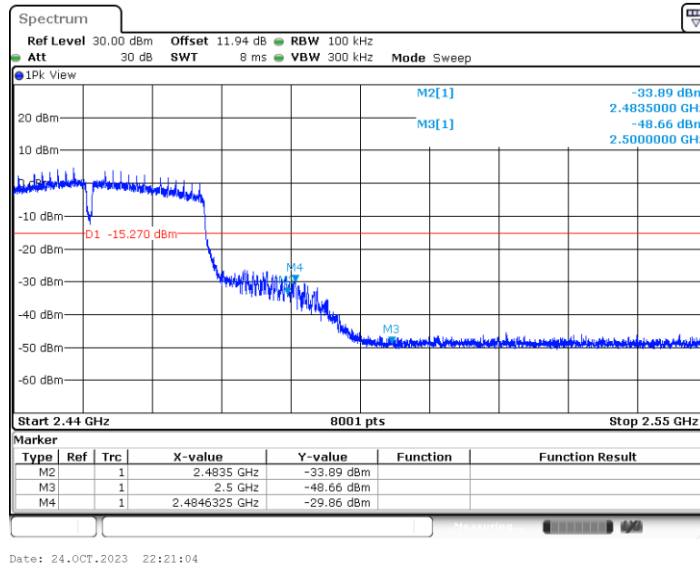




11N40SISO_Low_2422



11N40SISO_High_2452





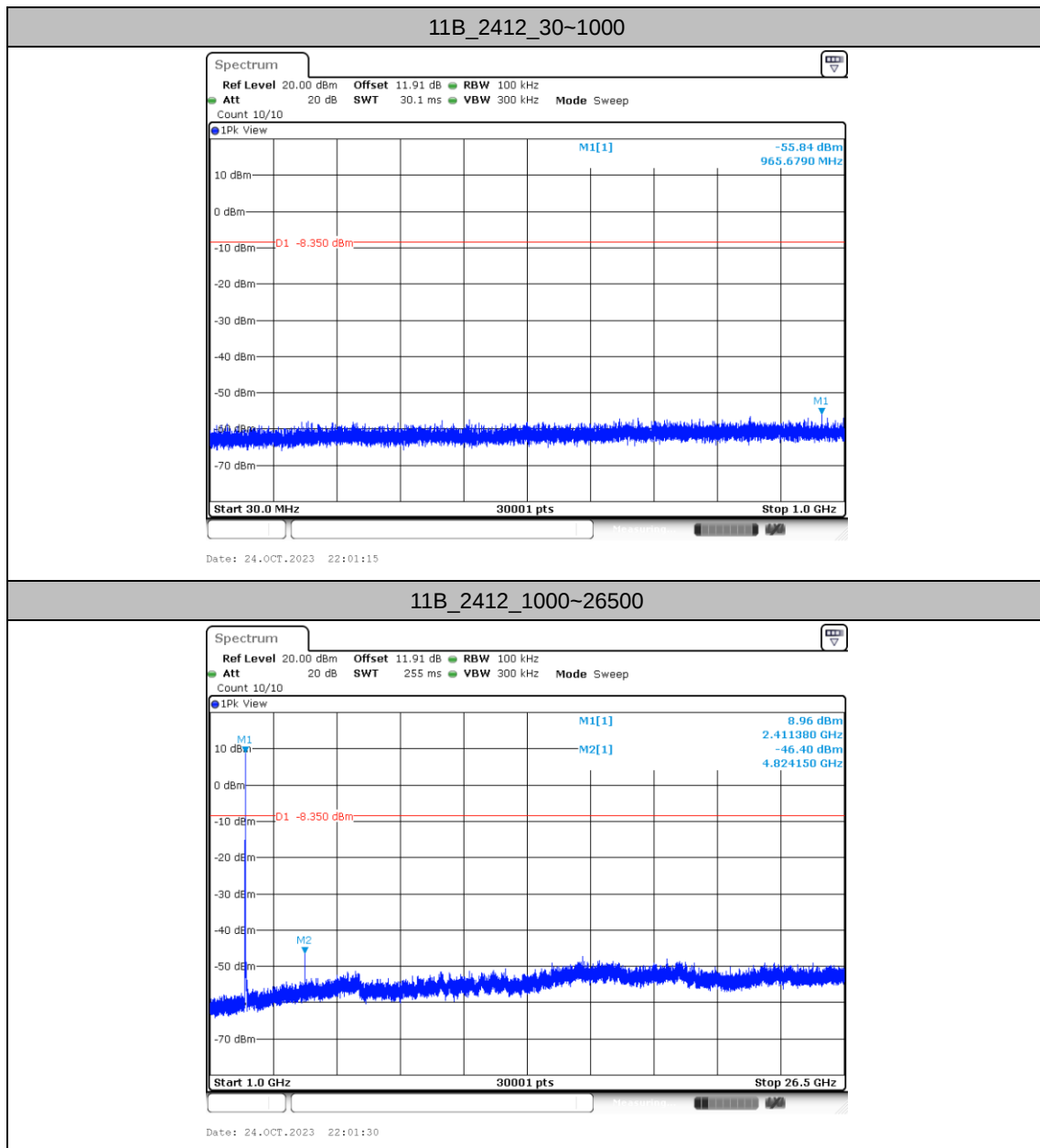
Conducted Spurious Emission

Test Result

TestMode	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	2412	30~1000	11.65	-55.84	≤-8.35	PASS
		1000~26500	11.65	-46.4	≤-8.35	PASS
	2437	30~1000	11.61	-56.44	≤-8.39	PASS
		1000~26500	11.61	-47.44	≤-8.39	PASS
	2462	30~1000	11.71	-56.76	≤-8.29	PASS
		1000~26500	11.71	-45.99	≤-8.29	PASS
11G	2412	30~1000	7.05	-56.12	≤-12.95	PASS
		1000~26500	7.05	-47.67	≤-12.95	PASS
	2437	30~1000	7.29	-55.62	≤-12.71	PASS
		1000~26500	7.29	-46.89	≤-12.71	PASS
	2462	30~1000	8.41	-55.6	≤-11.59	PASS
		1000~26500	8.41	-46.63	≤-11.59	PASS
11N20SISO	2412	30~1000	7.13	-55.74	≤-12.87	PASS
		1000~26500	7.13	-47.52	≤-12.87	PASS
	2437	30~1000	7.24	-56.16	≤-12.76	PASS
		1000~26500	7.24	-48.1	≤-12.76	PASS
	2462	30~1000	7.89	-56.73	≤-12.11	PASS
		1000~26500	7.89	-47.18	≤-12.11	PASS
11N40SISO	2422	30~1000	4.18	-56.6	≤-15.82	PASS
		1000~26500	4.18	-47.93	≤-15.82	PASS
	2437	30~1000	4.23	-56.54	≤-15.77	PASS
		1000~26500	4.23	-47.7	≤-15.77	PASS
	2452	30~1000	4.73	-56.22	≤-15.27	PASS
		1000~26500	4.73	-47.31	≤-15.27	PASS

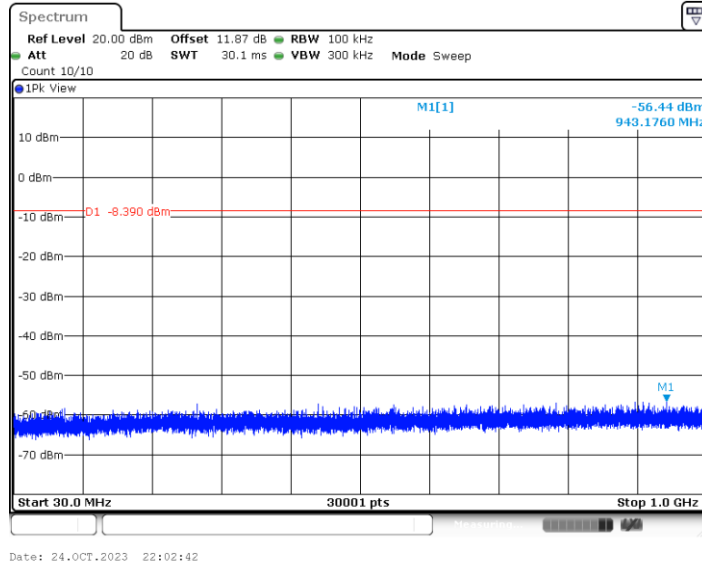


Test Graphs

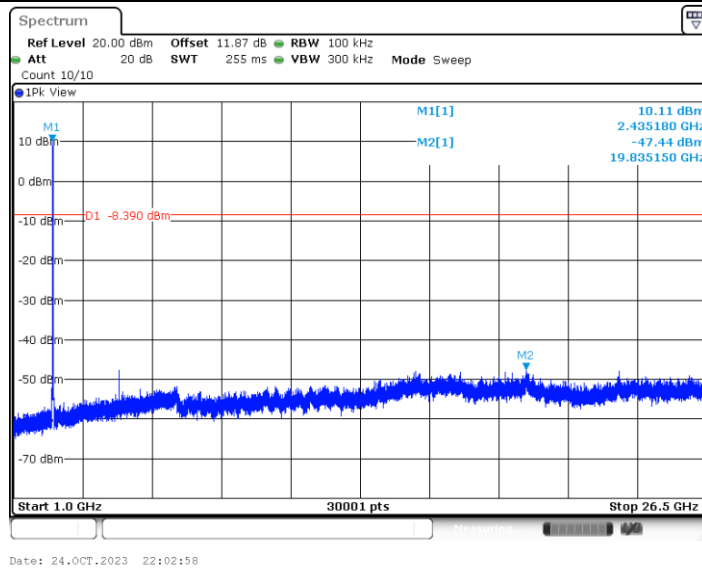




11B_2437_30~1000

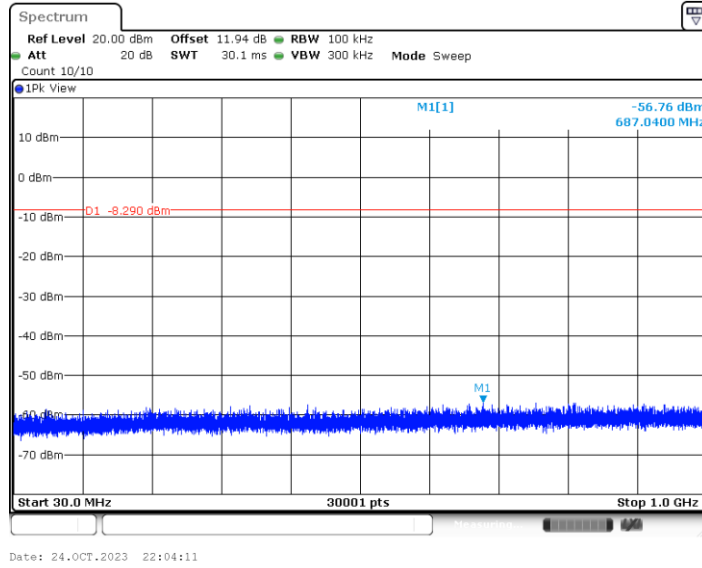


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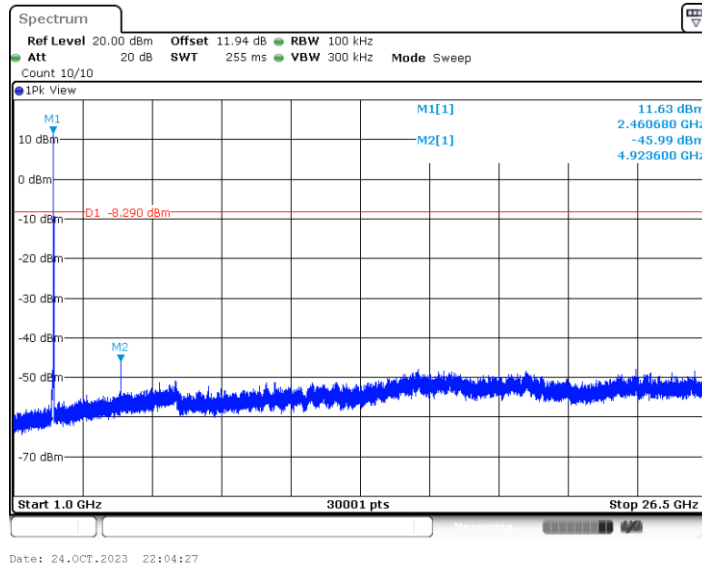


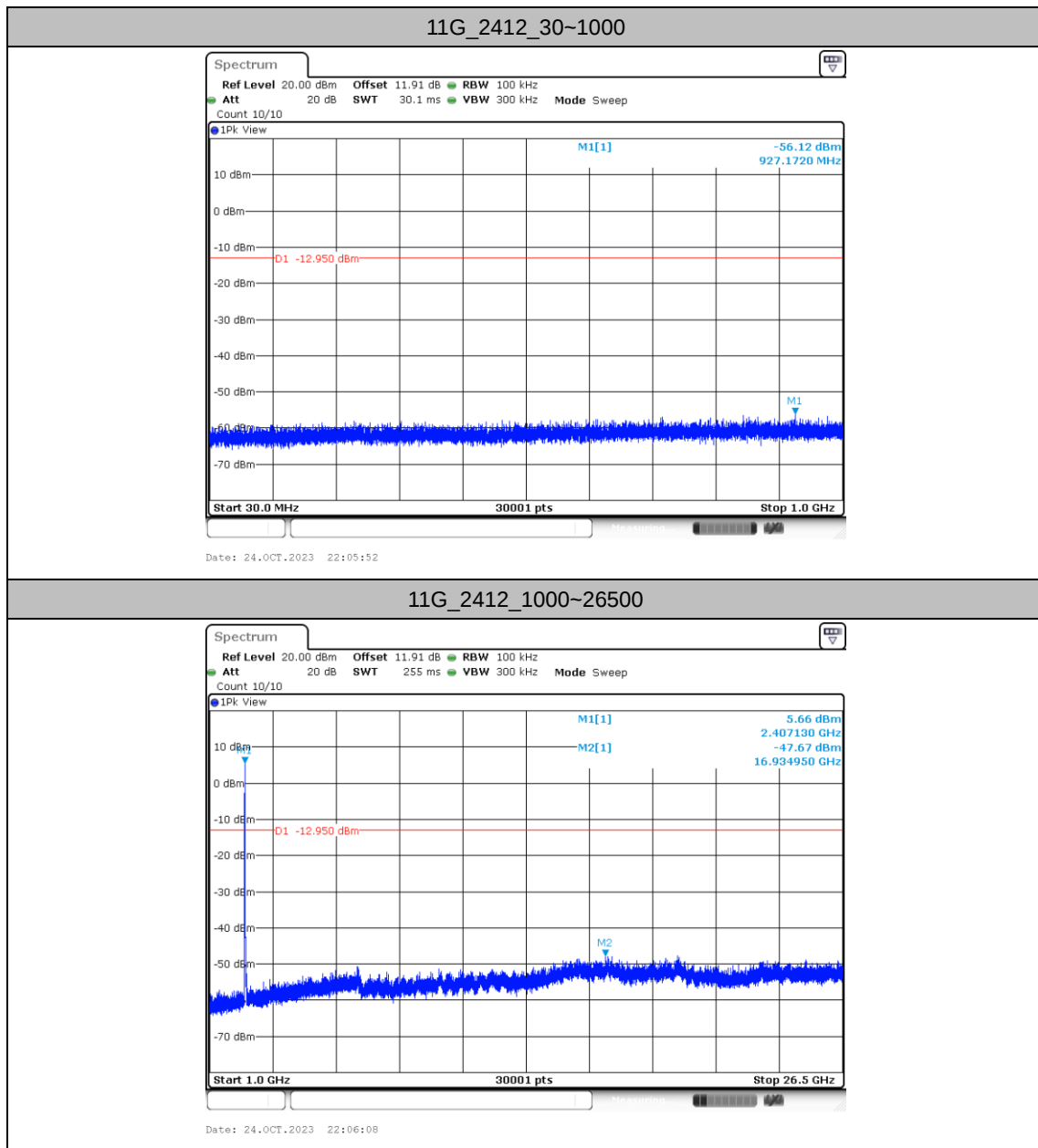


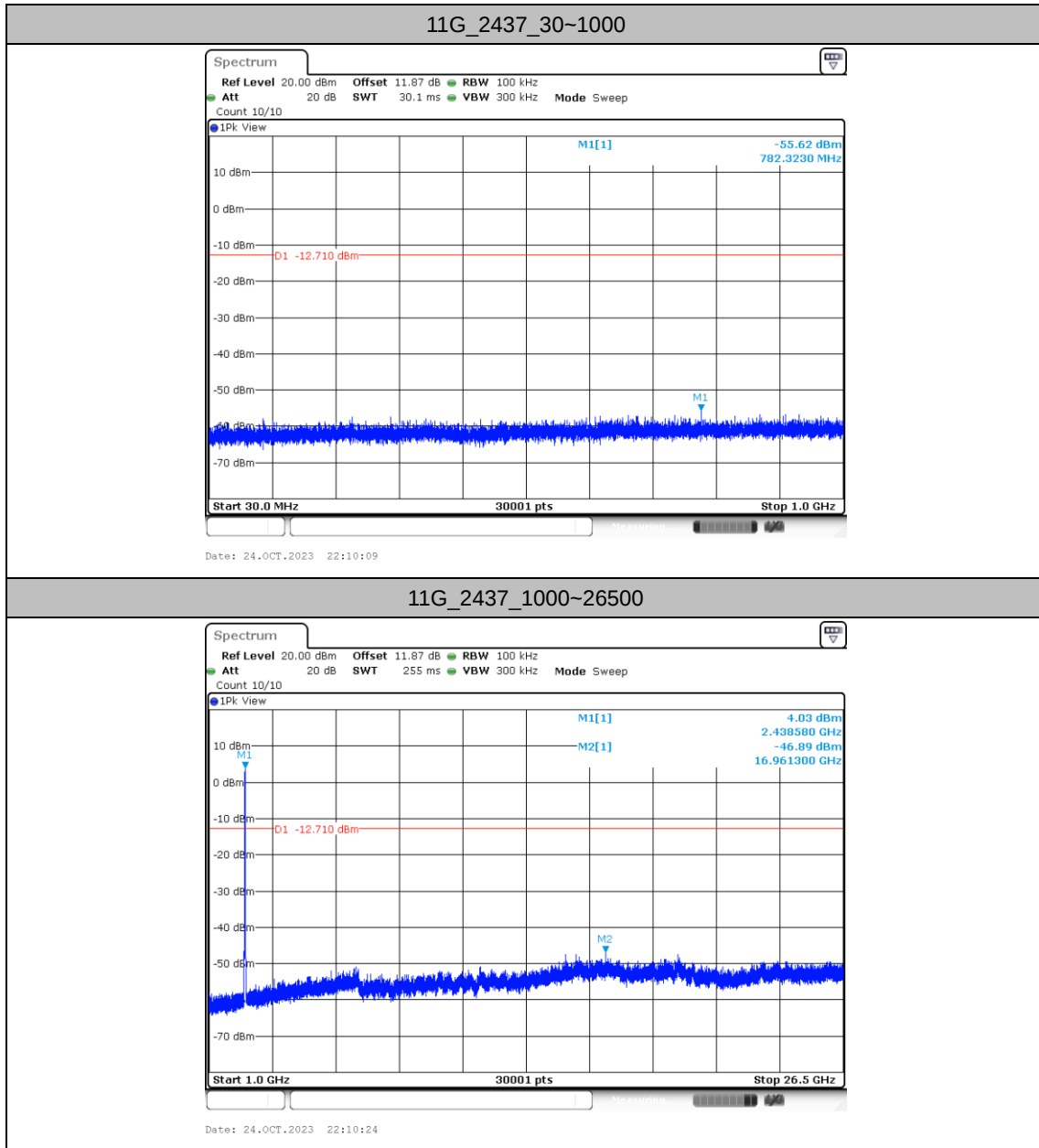
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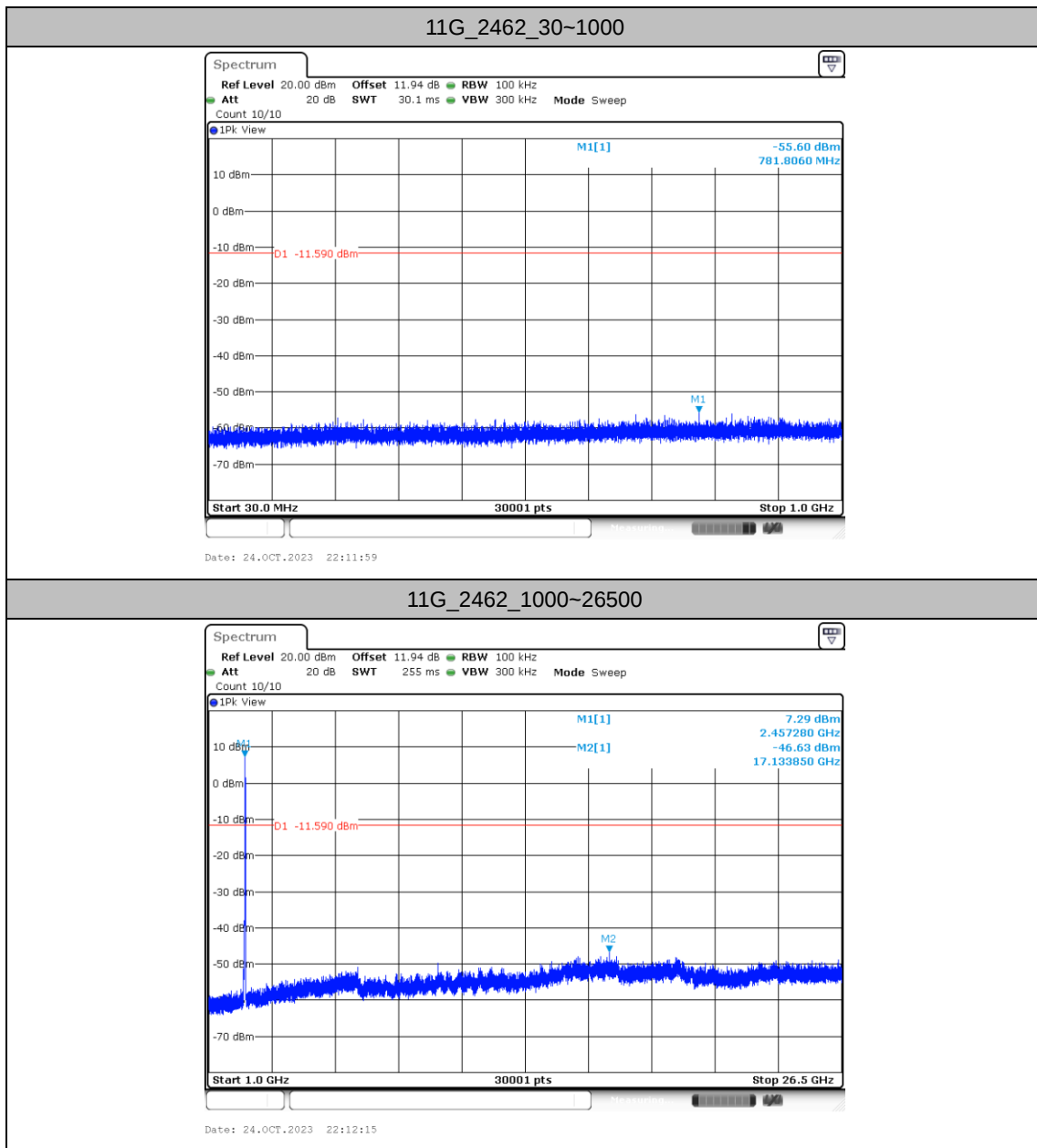


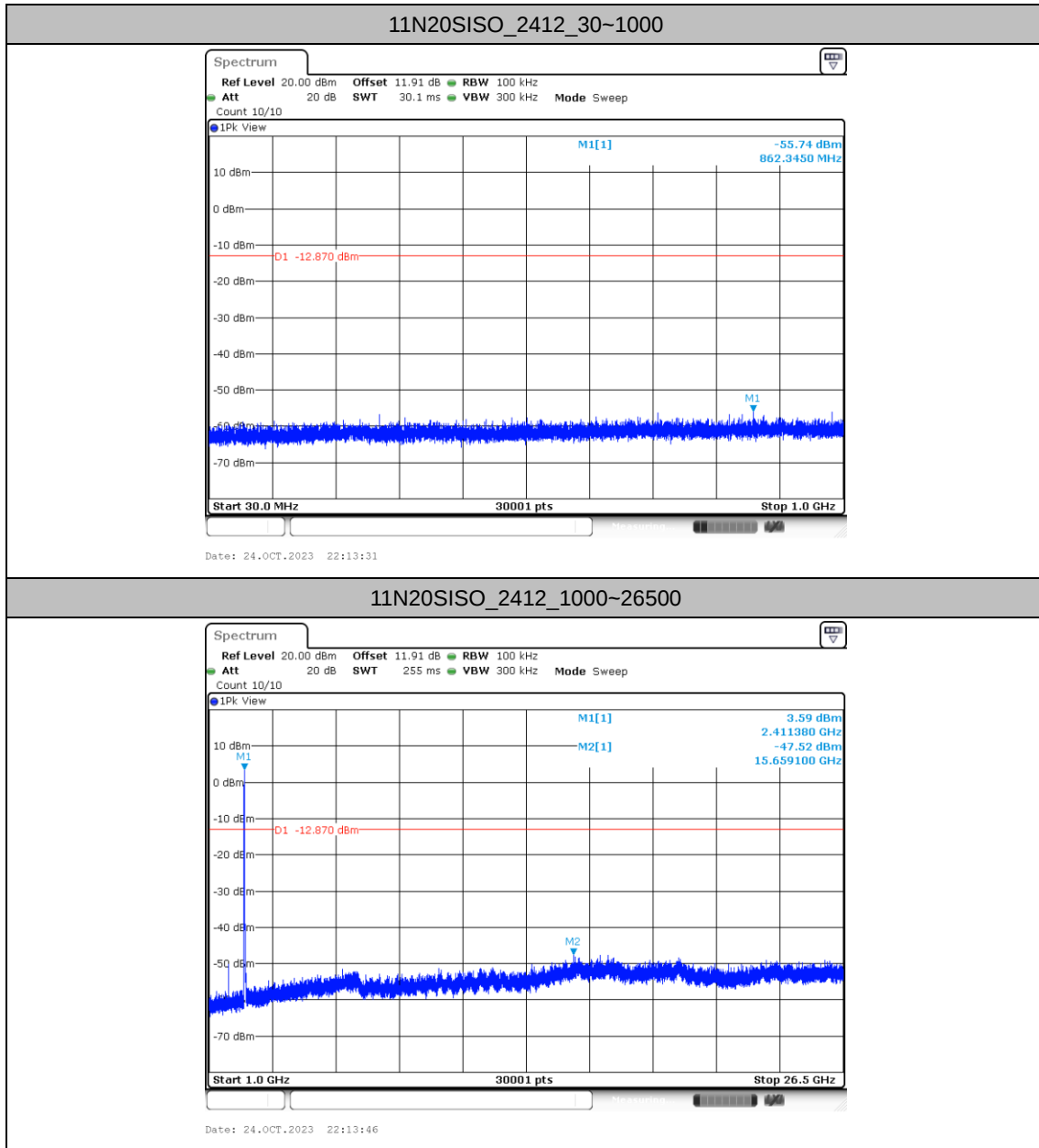
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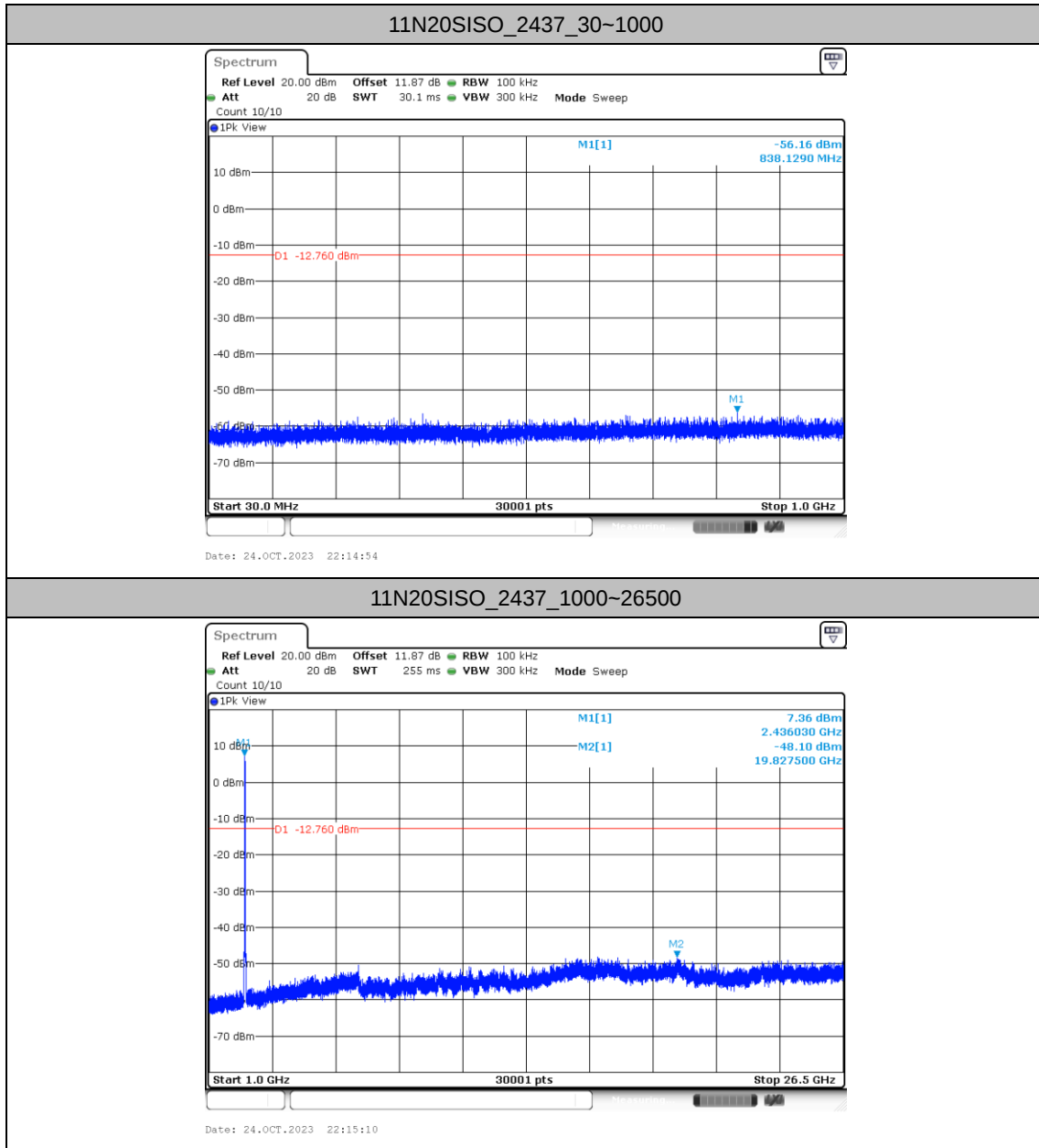


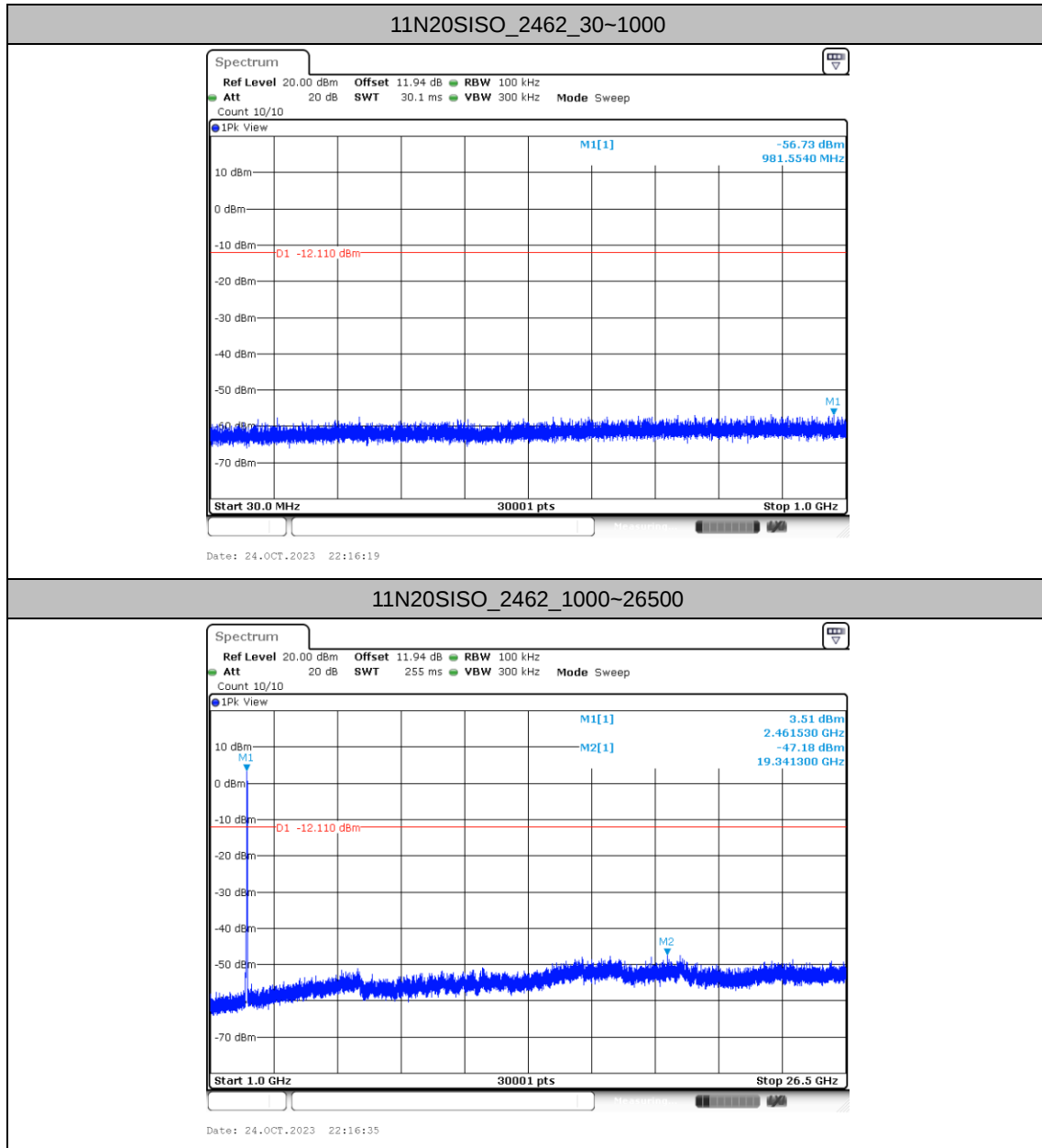


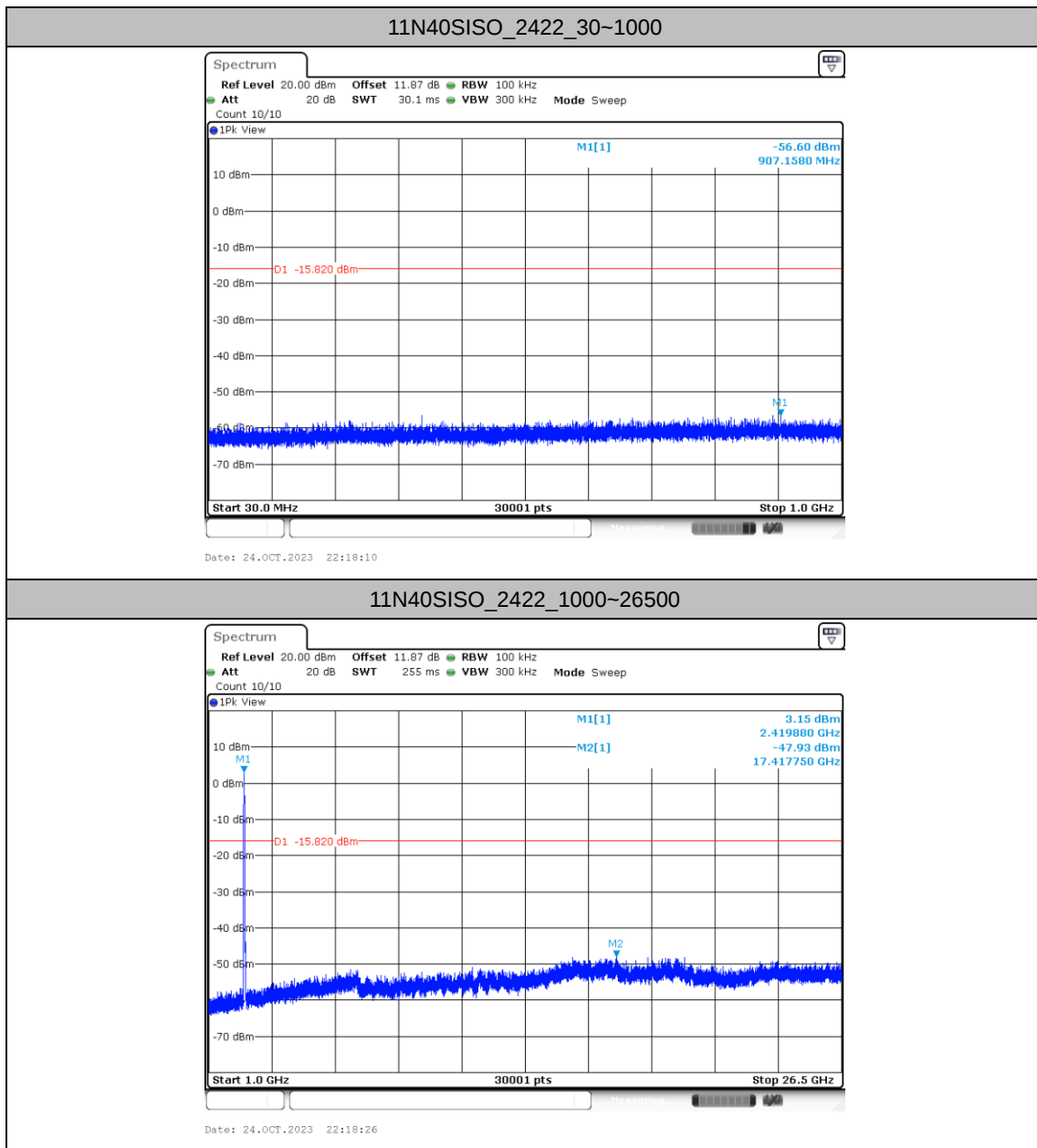


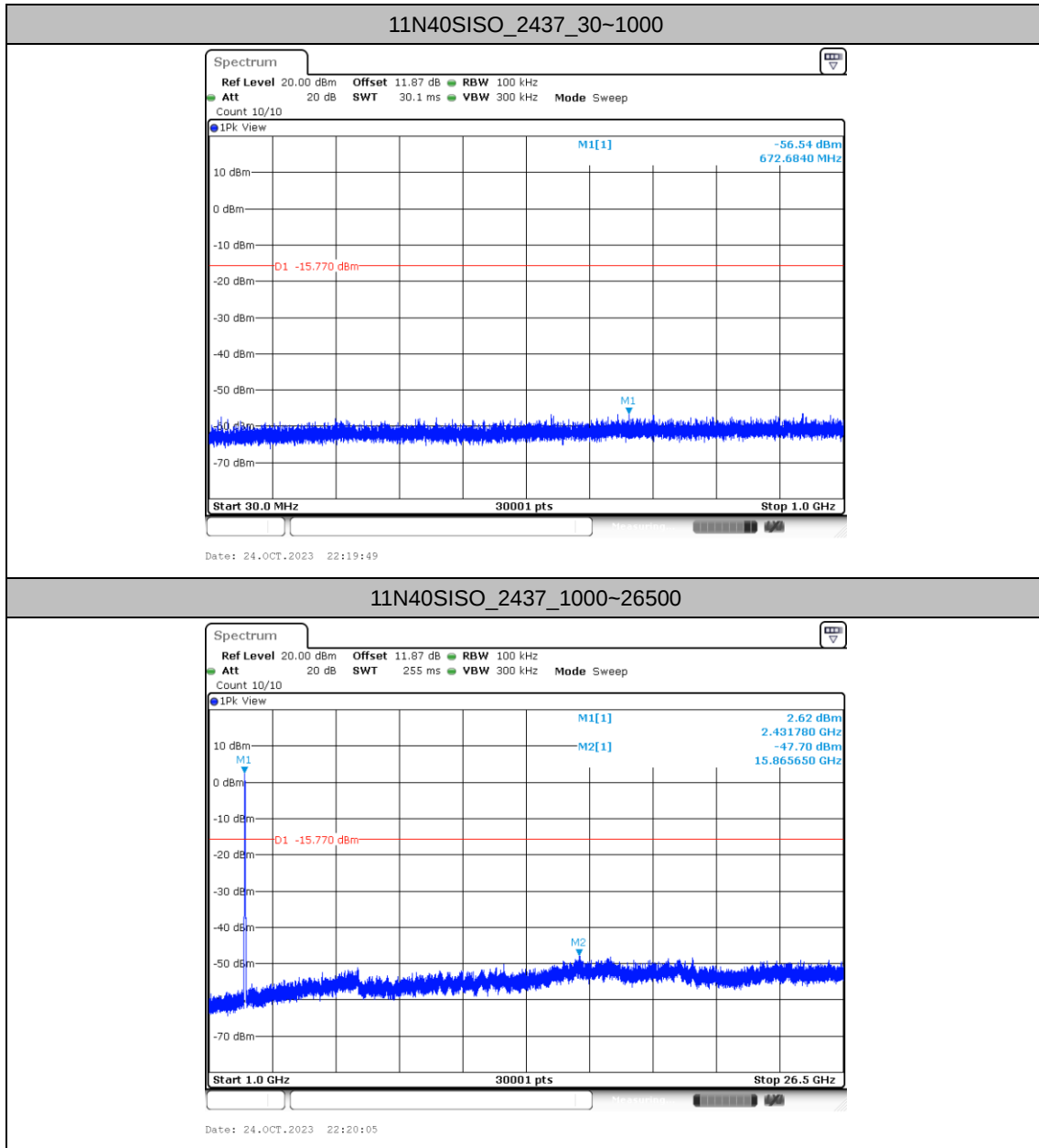


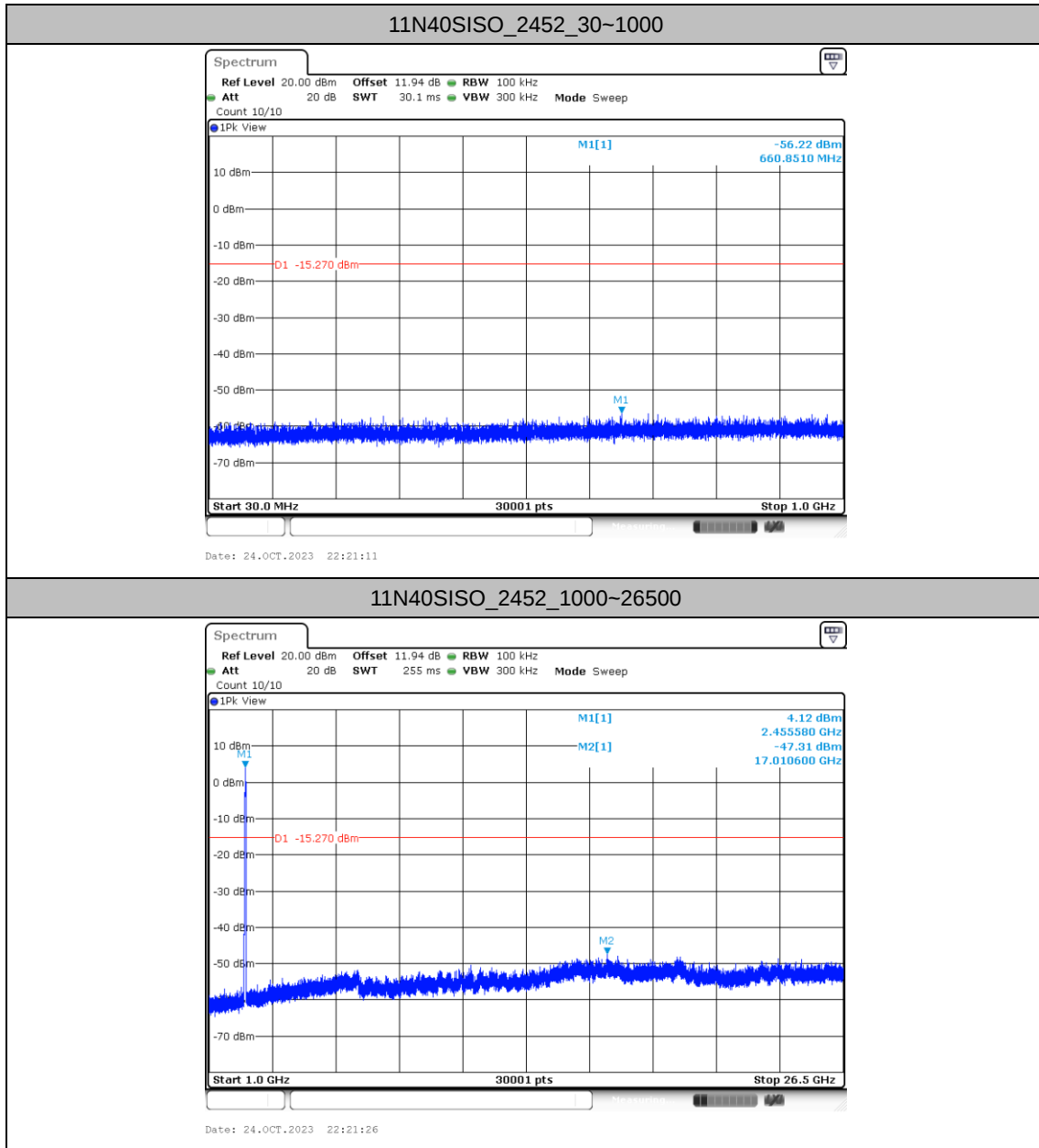








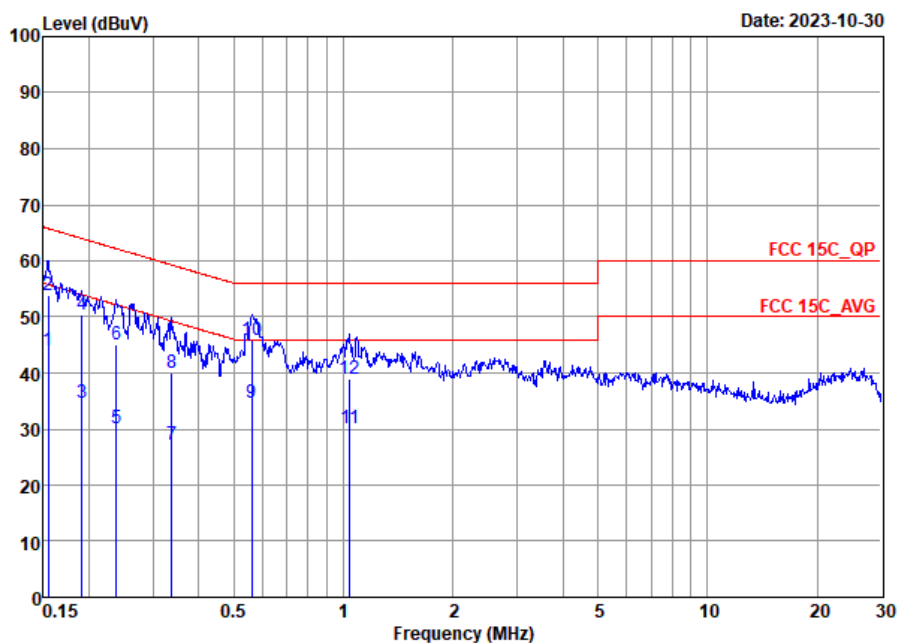






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

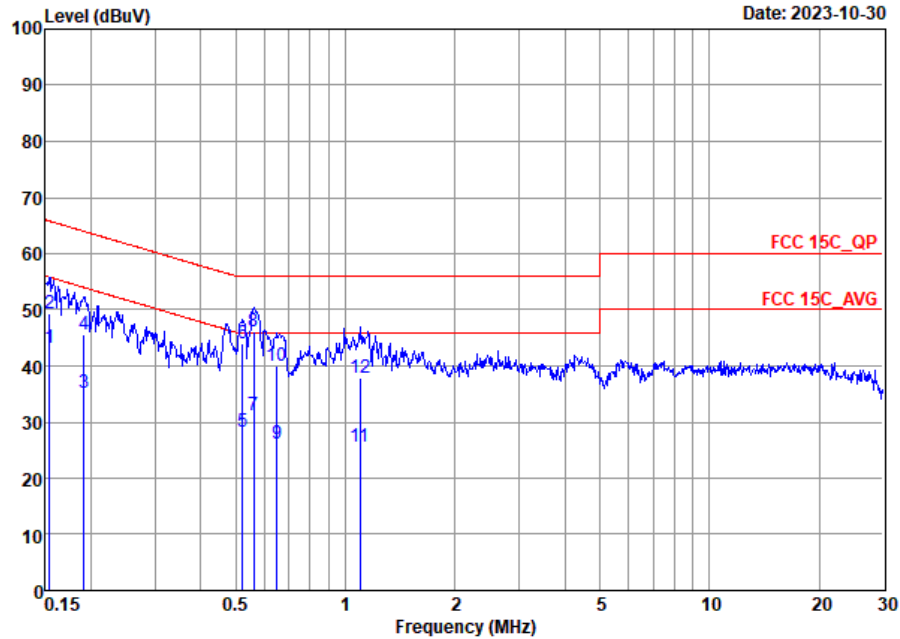


Site : CO01-SZ
Condition: FCC 15C_QP LISN_20230420_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	43.91	-11.83	55.74	23.30	10.47	10.14	Average
2	0.15	53.81	-11.93	65.74	33.20	10.47	10.14	QP
3	0.19	34.78	-19.20	53.98	14.20	10.43	10.15	Average
4	0.19	50.48	-13.50	63.98	29.90	10.43	10.15	QP
5	0.24	30.04	-22.13	52.17	9.50	10.39	10.15	Average
6	0.24	45.04	-17.13	62.17	24.50	10.39	10.15	QP
7	0.34	27.28	-21.99	49.27	6.80	10.32	10.16	Average
8	0.34	39.98	-19.29	59.27	19.50	10.32	10.16	QP
9	0.56	34.63	-11.37	46.00	14.20	10.27	10.16	Average
10 *	0.56	45.93	-10.07	56.00	25.50	10.27	10.16	QP
11	1.04	30.10	-15.90	46.00	9.70	10.24	10.16	Average
12	1.04	39.00	-17.00	56.00	18.60	10.24	10.16	QP



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15C_QP LISN_20230420_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	43.19	-12.59	55.78	22.61	10.45	10.13	Average
2	0.15	49.39	-16.39	65.78	28.81	10.45	10.13	QP
3	0.19	35.22	-18.76	53.98	14.70	10.37	10.15	Average
4	0.19	45.62	-18.36	63.98	25.10	10.37	10.15	QP
5	0.52	28.17	-17.83	46.00	7.80	10.21	10.16	Average
6	0.52	44.07	-11.93	56.00	23.70	10.21	10.16	QP
7	0.56	31.28	-14.72	46.00	10.90	10.22	10.16	Average
8 *	0.56	46.08	-9.92	56.00	25.70	10.22	10.16	QP
9	0.65	26.21	-19.79	46.00	5.80	10.25	10.16	Average
10	0.65	40.11	-15.89	56.00	19.70	10.25	10.16	QP
11	1.09	25.53	-20.47	46.00	5.10	10.26	10.17	Average
12	1.09	37.93	-18.07	56.00	17.50	10.26	10.17	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Kuang Jia	Relative Humidity :	50%
		Temperature :	20~22 °C

Radiated Spurious Emission Test Modes

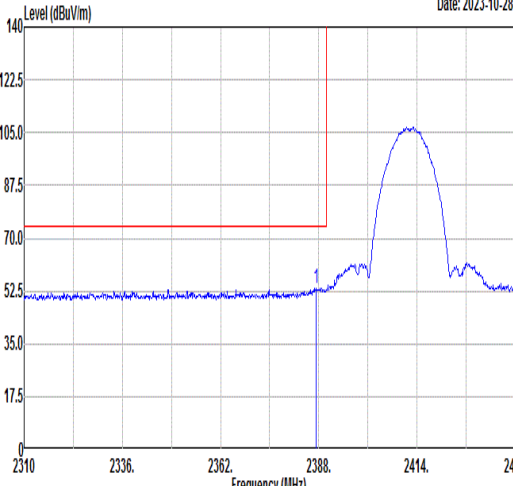
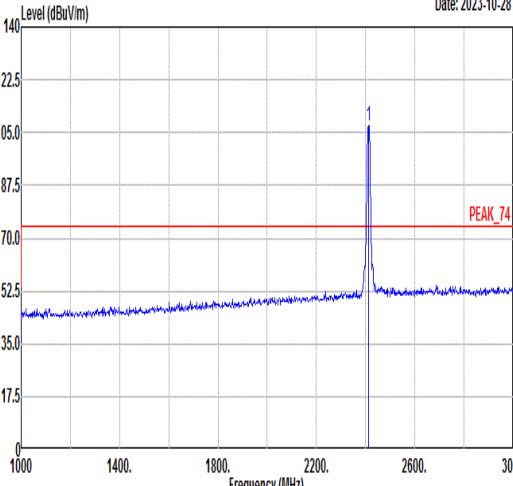
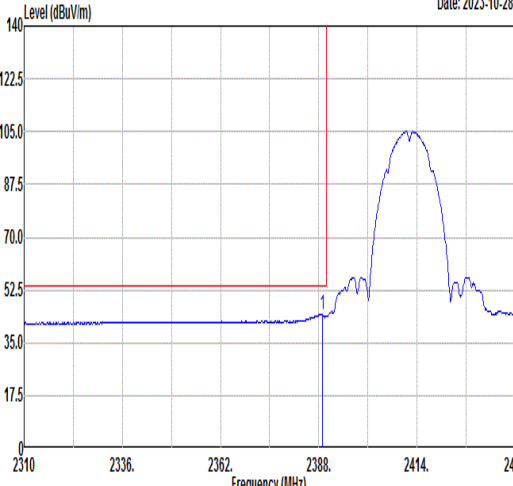
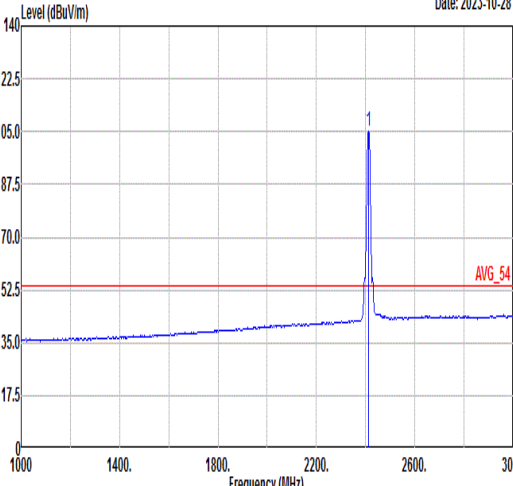
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	2	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	2	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	2	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	2	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	2	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	2	802.11n HT20	01	2412	MCS0	-	-
Mode 8	2400-2483.5	2	802.11n HT20	06	2437	MCS0	-	-
Mode 9	2400-2483.5	2	802.11n HT20	11	2462	MCS0	-	-
Mode 10	2400-2483.5	2	802.11n HT40	03	2422	MCS0	-	-
Mode 11	2400-2483.5	2	802.11n HT40	09	2452	MCS0	-	-
Mode 12	2400-2483.5	2	802.11n HT40_LF	03	2422	MCS0	-	LF



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2388.39	45.54	54.00	-8.46	V	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	44.09	74.00	-29.91	H	Peak	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
	802.11b	06	7311.00	44.82	74.00	-29.18	H	Peak	Pass	Harmonic
3	802.11b	11	2484.80	45.91	54.00	-8.09	H	AVERAGE	Pass	Band Edge
	802.11b	11	7386.00	45.14	74.00	-28.86	V	Peak	Pass	Harmonic
4	802.11g	01	-	-	-	-	-	-	-	Band Edge
	802.11g	01	4824.00	43.93	74.00	-30.07	H	Peak	Pass	Harmonic
5	802.11g	06	-	-	-	-	-	-	-	Band Edge
	802.11g	06	7311.00	44.89	74.00	-29.11	V	Peak	Pass	Harmonic
6	802.11g	11	-	-	-	-	-	-	-	Band Edge
	802.11g	11	7386.00	47.07	74.00	-26.93	V	Peak	Pass	Harmonic
7	802.11n HT20	01	2389.95	45.79	54.00	-8.21	V	AVERAGE	Pass	Band Edge
	802.11n HT20	01	4824.00	42.53	74.00	-31.47	H	Peak	Pass	Harmonic
8	802.11n HT20	06	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	06	7311.00	44.58	74.00	-29.42	H	Peak	Pass	Harmonic
9	802.11n HT20	11	2484.99	46.82	54.00	-7.18	H	AVERAGE	Pass	Band Edge
	802.11n HT20	11	7386.00	45.77	74.00	-28.23	V	Peak	Pass	Harmonic
10	802.11n HT40	03	2389.52	49.51	54.00	-4.49	V	AVERAGE	Pass	Band Edge
	802.11n HT40	03	7266.00	45.78	74.00	-28.22	V	Peak	Pass	Harmonic
11	802.11n HT40	09	2484.11	47.67	54.00	-6.33	H	AVERAGE	Pass	Band Edge
	802.11n HT40	09	-	-	-	-	-	-	-	Harmonic
12	802.11n HT40_LF	03	30.00	35.30	40.00	-4.70	V	Peak	Pass	LF



Mode	1																																																																																																					
	Band Edge																																																																																																					
	2400-2483.5_802.11b_CH01_2412MHz																																																																																																					
ANT	2																																																																																																					
Pol.	Horizontal																																																																																																					
Peak	Level (dBuV/m) Date: 2023-10-28  Frequency (MHz)											Level (dBuV/m) Date: 2023-10-28  Frequency (MHz)																																																																																										
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2387.35</td><td>53.60</td><td>74.00</td><td>-20.40</td><td>48.19</td><td>33.31</td><td>5.36</td><td>33.26</td><td>231</td><td>322</td><td>PEAK</td></tr></table>												Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2387.35	53.60	74.00	-20.40	48.19	33.31	5.36	33.26	231	322	PEAK	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>107.32</td><td>-----</td><td>-----</td><td>101.79</td><td>33.37</td><td>5.38</td><td>33.22</td><td>231</td><td>322</td><td>PEAK</td></tr></table>												Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	107.32	-----	-----	101.79	33.37	5.38	33.22	231	322	PEAK
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