



FCC - TEST REPORT

Report Number : **4842025239900A** Date of Issue: 2025.04.27

Model : THP01-ZB-V5

Product Type : Dual Band Wireless Multi-mode Gateway

Applicant : Zhejiang Lingzhu Technology Co., Ltd.

Address : Room 302, No 1 Building Huace Center, Xihu District 310000,
Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF
CHINA

Manufacturer : Zhejiang Lingzhu Technology Co., Ltd.

Address : Room 302, No 1 Building Huace Center, Xihu District 310000,
Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF
CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : 115



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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2025.04.27



3 Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd.

Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu. China

Test Firm FCC
Registration
Number: 571980

Designation
number: CN1405

Telephone: +86 510 8820 3737
Fax: +86 510 8820 3636

4 Description of the Equipment under Test

Product: Dual Band Wireless Multi-mode Gateway

PMN / HVIN / Model no.: THP01-ZB-V5

FCC ID: 2BEWX-THP01-ZB

Rating: Gateway Input: DC 5V, 1A
Adapter Input: 100-240V~, 50/60Hz, 0.25A
Adapter Output: DC 5.0V, 1.0A, 5.0W

RF Transmission Frequency: 2.4G Wi-Fi: 802.11b/g/n-HT20: 2412~2462 MHz
802.11n-HT40: 2422~2452 MHz

No. of Operated Channel: 2.4GHz WIFI: 11 for 802.11b/g/n(HT20), 7 for 802.11n(HT40)

Modulation: Direct Sequence Spread Spectrum (DSSS) for 802.11b
Orthogonal Frequency Division Multiplexing (OFDM) for
802.11g/n(HT20)/n(HT40)

Channel list:

802.11b/g/n(HT20)			
Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		
802.11n(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437		

Hardware Version: V1.0.3

Software Version: V1.0.0

Antenna Type: Metal PCB Antenna

Antenna Gain: 1.98dBi

Description of the EUT: The Equipment Under Test (EUT) is a Dual Band Wireless Multi-mode Gateway which supports 2.4GHz & 5GHz Wi-Fi, Low Energy Bluetooth (1Mbps & 2Mbps data rate) and Zigbee functions. We tested it and listed the worst data in this report

Test sample no.: WUX 0896895-002

Remark: This report is only for 2.4G Wi-Fi



The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2020).

6 Summary of Test Results

Technical Requirements						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	14-16	Site 1	☒	☐	☐
§15.247 (b) (3)	Conducted peak output power	17-18	Site 1	☒	☐	☐
§15.247(a)(1)	20dB bandwidth	---	---	☐	☐	☒
§15.247(a)(1)	Carrier frequency separation	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Dwell Time	---	---	☐	☐	☒
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	19-29	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	30-35	Site 1	☒	☐	☐
§15.247(d)	Spurious RF conducted emissions	36-53	Site 1	☒	☐	☐
§15.247(d)	Band edge	54-60	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	61-111	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a PCB antenna, which gain is 1.98dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BEWX-THP01-ZB, complies with Section 15.203,15.205,15.207,15.209,15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 8 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2025.3.13

Testing Start Date: 2025.3.15

Testing End Date: 2025.4.15

-TÜV SÜD Certification and Testing (China) Co., Ltd.

Reviewed by:

Bo Dai
Project Manager

Prepared by:

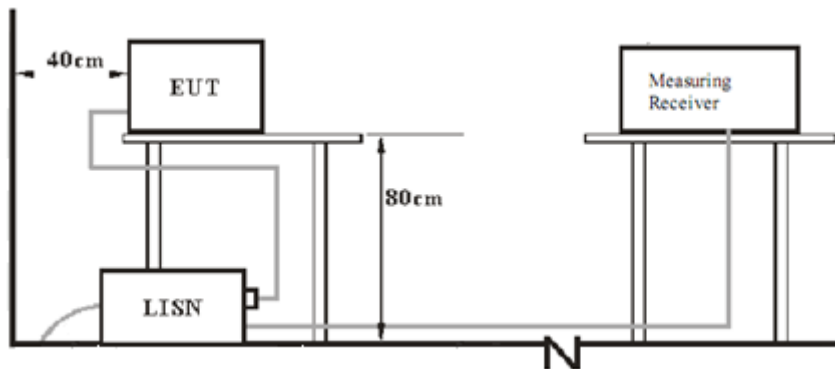
Xin Feng
Project Engineer

Tested by:

Zhihua Xia
Test Engineer

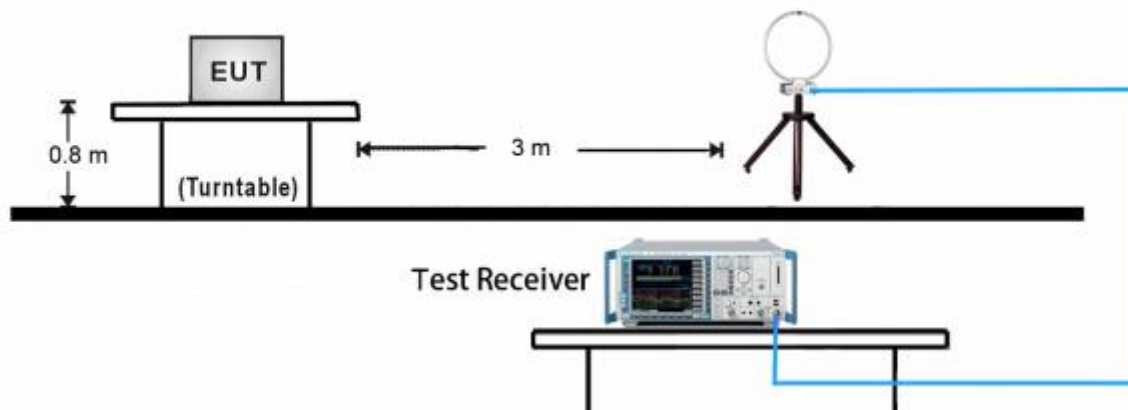
8 Test Setups

7.1 AC Power Line Conducted Emission test setups

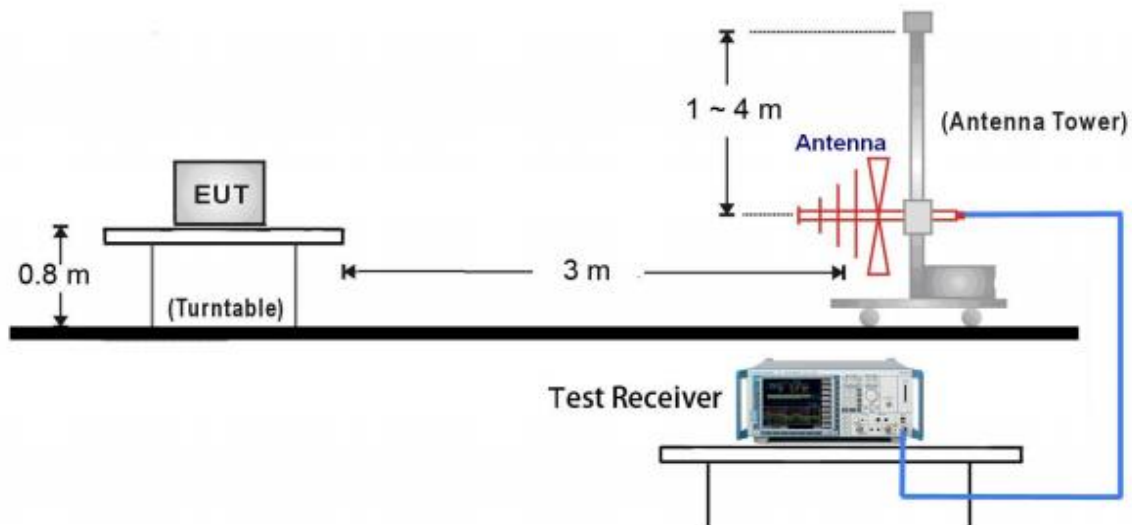


7.2 Radiated test setups

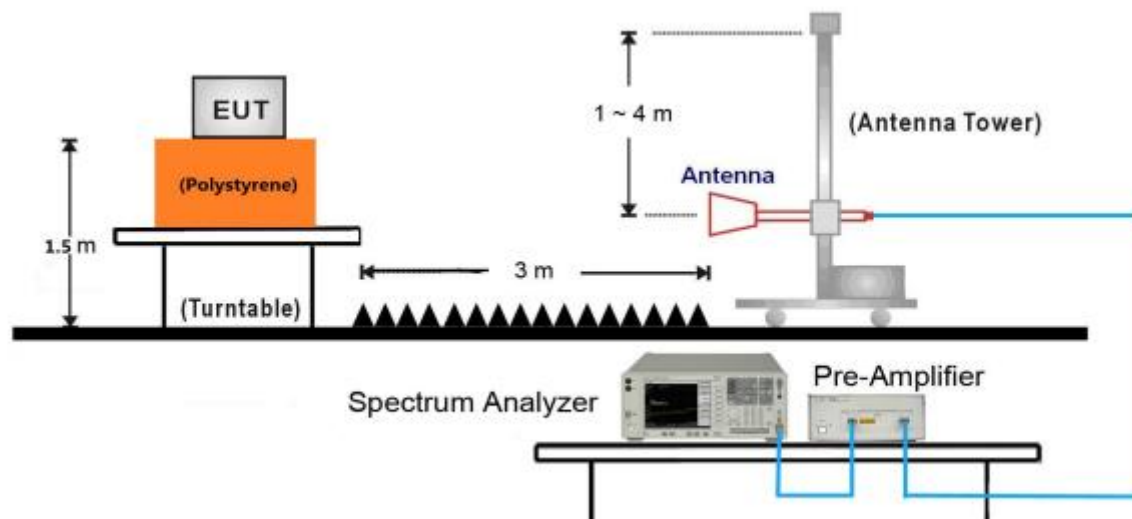
9kHz ~ 30MHz Test Setup:



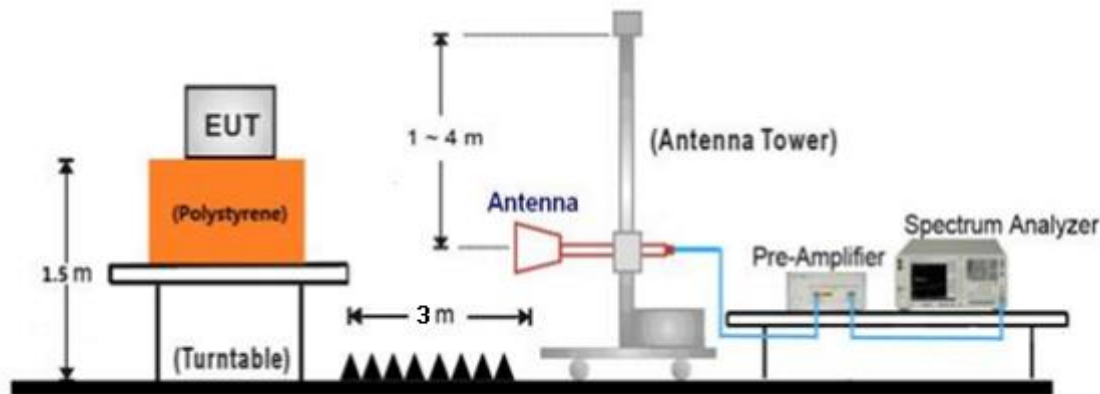
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

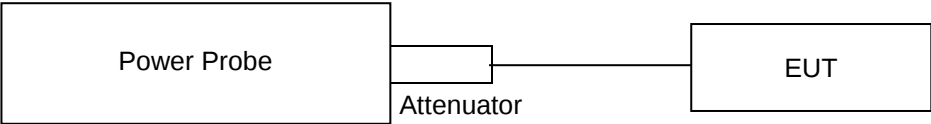


18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups

For Conducted peak output power



For other test items



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Huawei	VLT-W50	2018AP1231

Test software: AmebaDPlus_MP_tool_1V6

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate	Modulation	Power level setting (Index Value)
802.11b	1	1 Mbps	DSSS	90
	6			96
	11			96
802.11g	1	6 Mbps	OFDM	70
	6			72
	11			74
802.11n HT20	1	MCS0 (6.5Mbps)	OFDM	70
	6			72
	11			72
802.11n HT40	3	MCS0 (13.5Mbps)	OFDM	68
	6			68
	9			68

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

Conducted Emission

150k-30MHz Conducted Emission Test

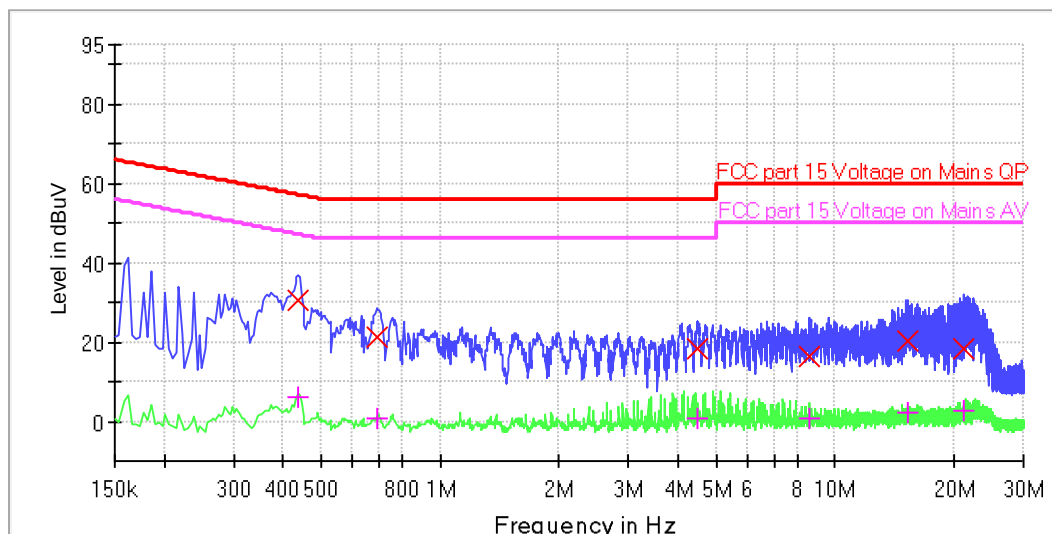
EUT Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co.,Ltd
Operating Conditions: Power on,2.4G Wi-Fi transmitting,802.11B 2437MHz
Operator Name: Zhihua Xia
Input: AC 120V 60Hz
Test Standard: FCC Part 15.207(a)
Comment: Phase L
Sample No.: WUX 0896895-002

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver: [ESW 8]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.438000	30.5	6.3	1000.0	9.000	10.1	26.7	57.1	40.8	47.1
0.690000	21.3	0.7	1000.0	9.000	10.1	34.8	56.0	45.4	46.0
4.466000	18.2	0.8	1000.0	9.000	10.2	37.8	56.0	45.2	46.0
8.634000	16.2	1.0	1000.0	9.000	10.4	43.8	60.0	49.0	50.0
15.262000	20.2	2.1	1000.0	9.000	10.6	39.9	60.0	47.9	50.0
21.274000	18.3	2.8	1000.0	9.000	10.6	41.7	60.0	47.2	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

150k-30MHz Conducted Emission Test

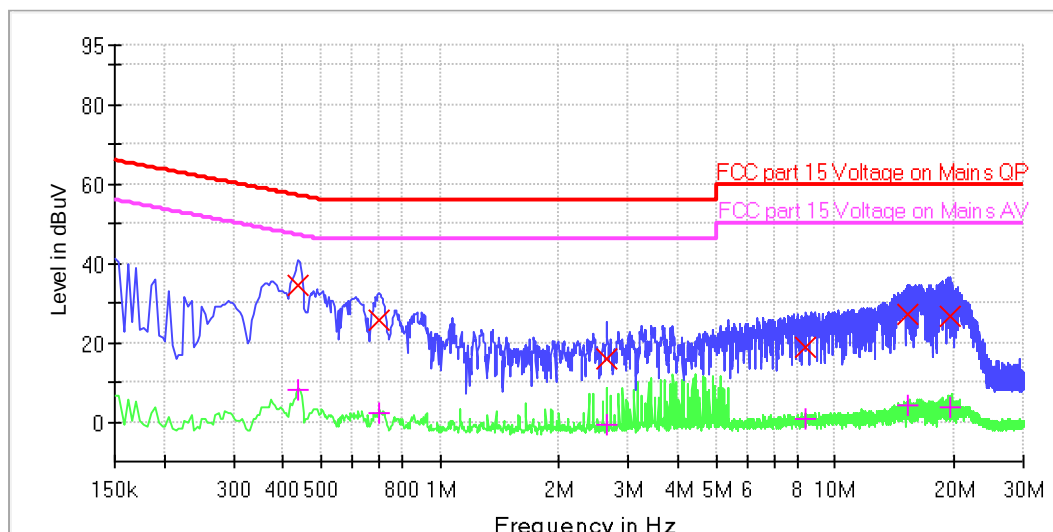
EUT Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co.,Ltd
Operating Conditions: Power on,2.4G Wi-Fi transmitting,802.11B 2437MHz
Operator Name: Zhihua Xia
Input: AC 120V 60Hz
Test Standard: FCC Part 15.207(a)
Comment: Phase N
Sample No.: WUX 0896895-002

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver: [ESW 8]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB



Limit and Margin

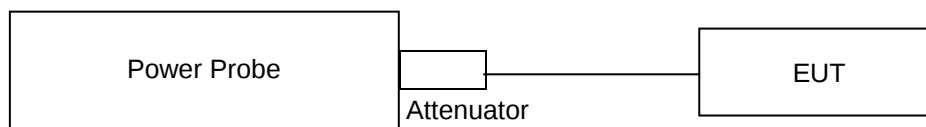
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.438000	34.5	8.0	1000.0	9.000	10.4	22.6	57.1	39.1	47.1
0.698000	25.7	2.4	1000.0	9.000	10.4	30.3	56.0	43.6	46.0
2.642000	15.8	-0.6	1000.0	9.000	10.5	40.2	56.0	46.6	46.0
8.462000	18.9	0.6	1000.0	9.000	10.7	41.1	60.0	49.4	50.0
15.270000	27.0	3.9	1000.0	9.000	10.8	33.0	60.0	46.1	50.0
19.486000	26.8	3.7	1000.0	9.000	10.8	33.2	60.0	46.3	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

10.2 Conducted peak output power

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Power meter conducted test setup

Limits

According to §15.247 (b) (3), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Test result as below table

802.11b Test Result

Data transmission Rate	Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
		Result	limit	Verdict
1Mbps	2412MHz	19.16	≤30	Pass
	2437MHz	19.75	≤30	Pass
	2462MHz	19.17	≤30	Pass

802.11g Test Result

Data transmission Rate	Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
		Result	limit	Verdict
6Mbps	2412MHz	21.99	≤30	Pass
	2437MHz	22.17	≤30	Pass
	2462MHz	22.24	≤30	Pass



802.11n20 Test Result

Data transmission Rate	Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
		Result	limit	Verdict
MCS0 (6.5Mbps)	2412MHz	22.40	≤30	Pass
	2437MHz	22.52	≤30	Pass
	2462MHz	22.35	≤30	Pass

802.11n40 Test Result

Data transmission Rate	Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
		Result	limit	Verdict
MCS0 (13.5Mbps)	2422MHz	22.74	≤30	Pass
	2437MHz	22.16	≤30	Pass
	2452MHz	21.75	≤30	Pass

10.3 6dB bandwidth and 99% Occupied Bandwidth

Test Method

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the VBW $\geq [3 \times \text{RBW}]$.
3. Detector = peak.
RBW=100KHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Trace mode = max-hold.
5. Sweep = No faster than coupled (auto) time.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Method for 99 % Bandwidth

1. Use the following spectrum analyzer settings:
RBW=1% to 5% of the actual occupied, VBW $\geq$ 3RBW, Sweep = auto,
Detector function = peak, Trace = max hold
2. Use the occupied bandwidth measurement capability of test receiver.
3. Allow the trace to stabilize, record the occupied bandwidth value.

Limit

6dB bandwidth Limit [kHz]

99% bandwidth Limit [kHz]

 ≥ 500

--

Test result

802.11b Test Result

Data transmission rate	Frequency MHz	6dB bandwidth (MHz)		Result	99% occupied bandwidth MHz
		result	limit	verdict	
1Mbps	2412	9.804	≥ 0.5	Pass	13.924
	2437	10.101	≥ 0.5	Pass	13.889
	2462	9.825	≥ 0.5	Pass	13.789

802.11g Test Result

Data transmission rate	Frequency MHz	6dB bandwidth (MHz)		Result	99% occupied bandwidth MHz
		result	limit	verdict	
6Mbps	2412	16.446	≥ 0.5	Pass	16.631
	2437	16.485	≥ 0.5	Pass	16.642
	2462	16.455	≥ 0.5	Pass	16.644



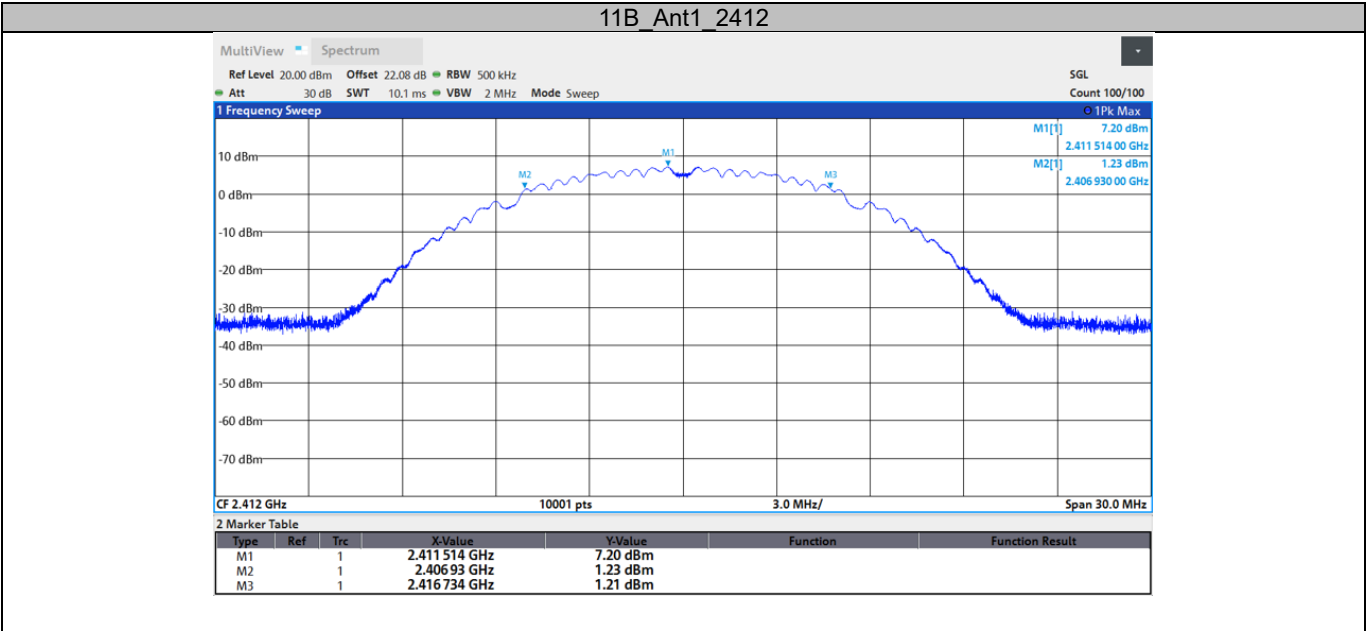
802.11n20 Test Result

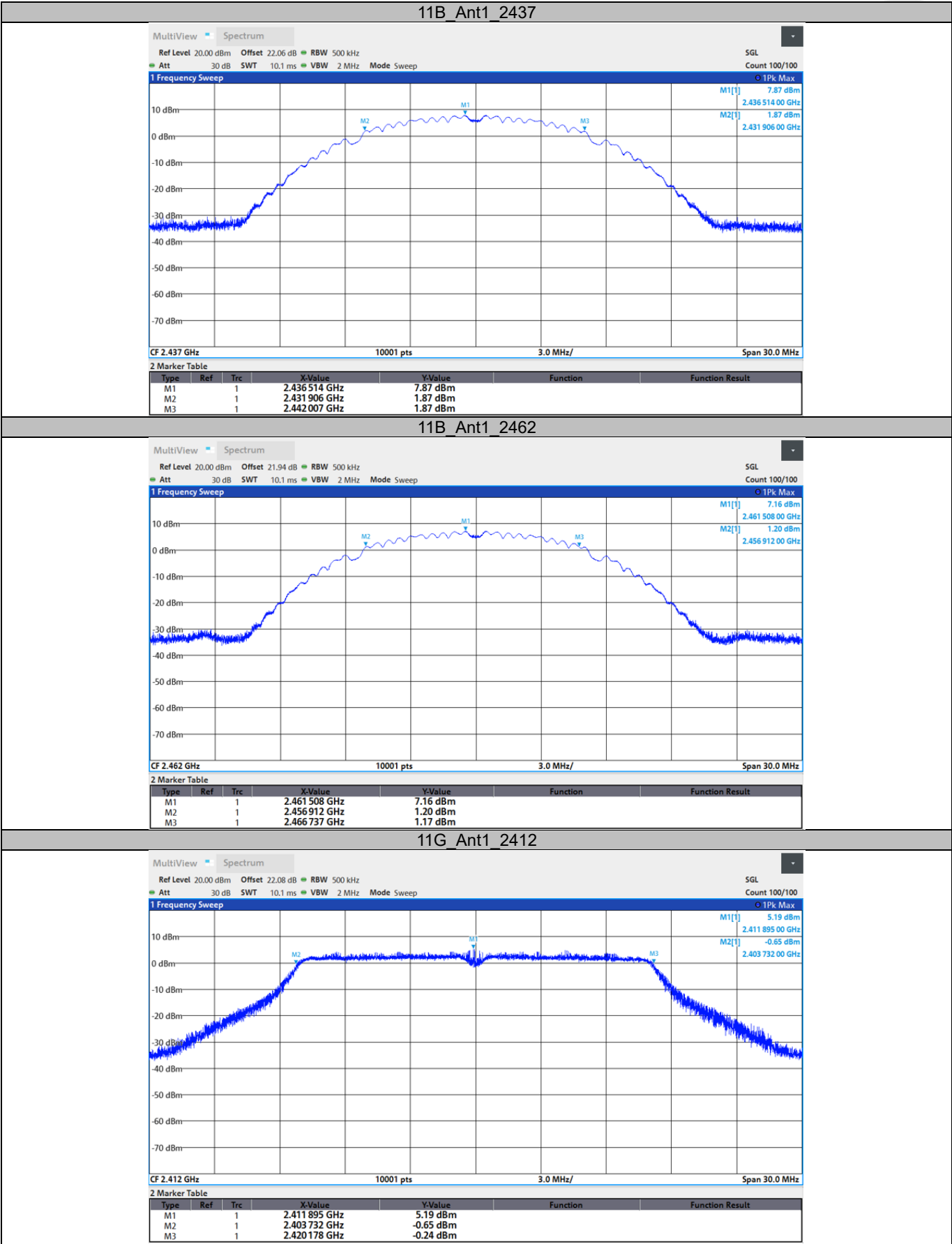
Data transmission rate	Frequency MHz	6dB bandwidth (MHz)		Result verdict	99% occupied bandwidth MHz
		result	limit		
MCS0 (6.5Mbps)	2412	17.721	≥0.5	Pass	17.814
	2437	17.685	≥0.5	Pass	17.833
	2462	17.688	≥0.5	Pass	17.828

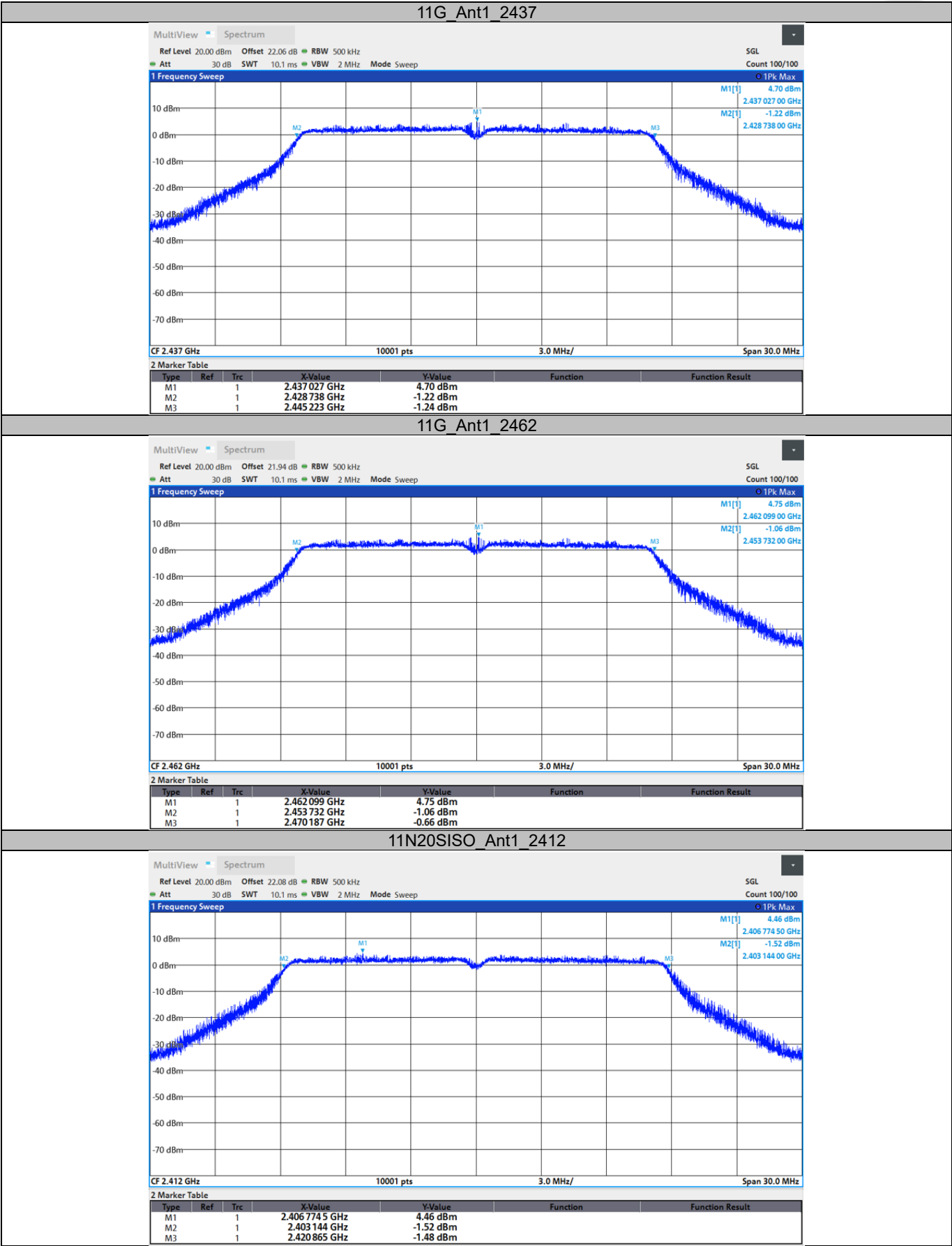
802.11n40 Test Result

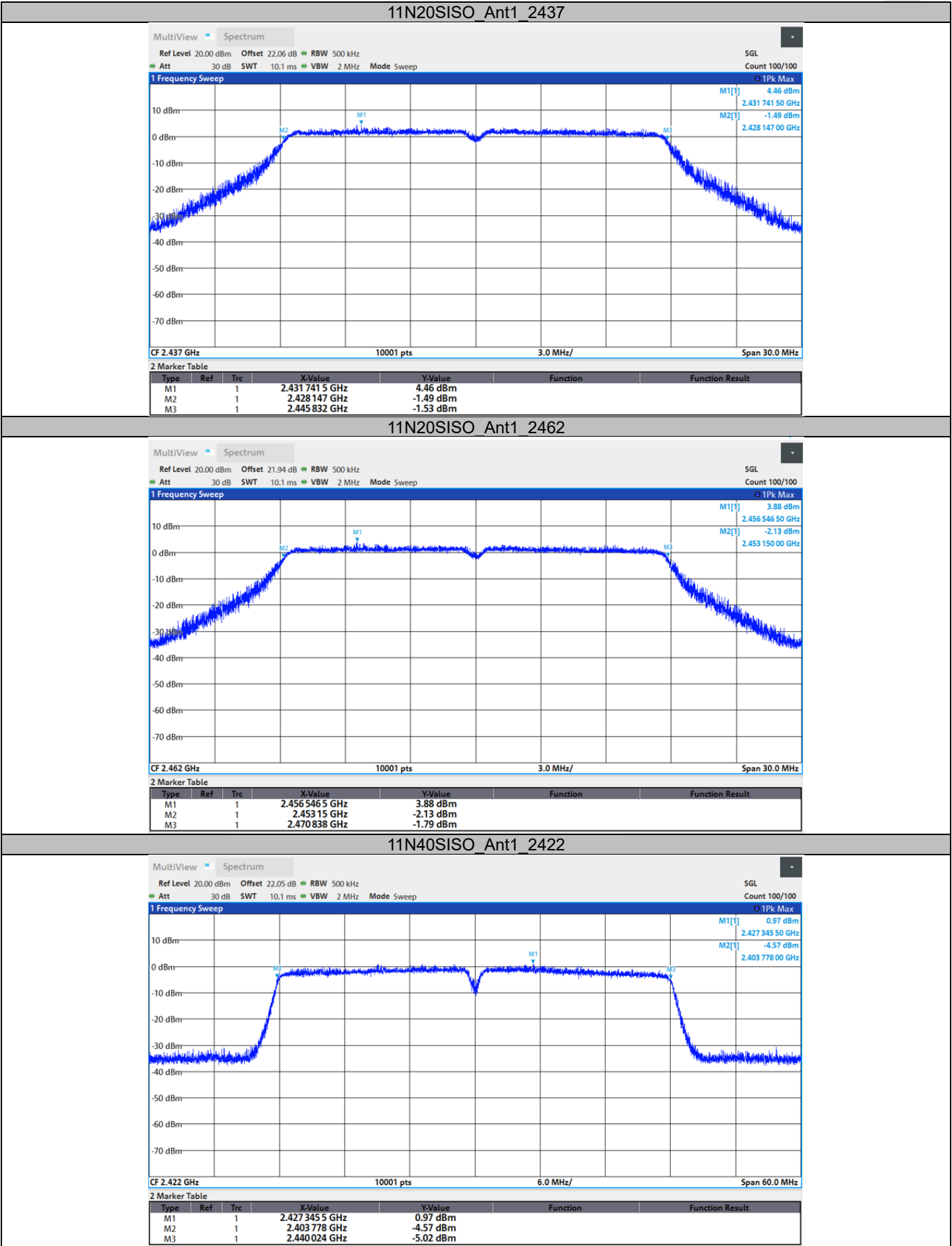
Data transmission rate	Frequency MHz	6dB bandwidth (MHz)		Result verdict	99% occupied bandwidth MHz
		result	limit		
MCS0 (13.5Mbps)	2422	36.246	≥0.5	Pass	35.990
	2437	36.156	≥0.5	Pass	35.998
	2452	36.138	≥0.5	Pass	36.004

6dB Bandwidth

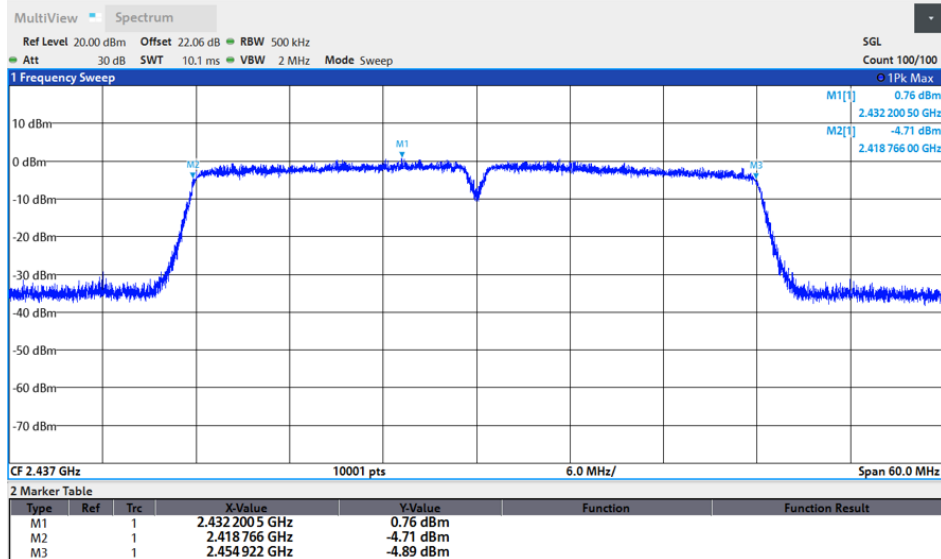




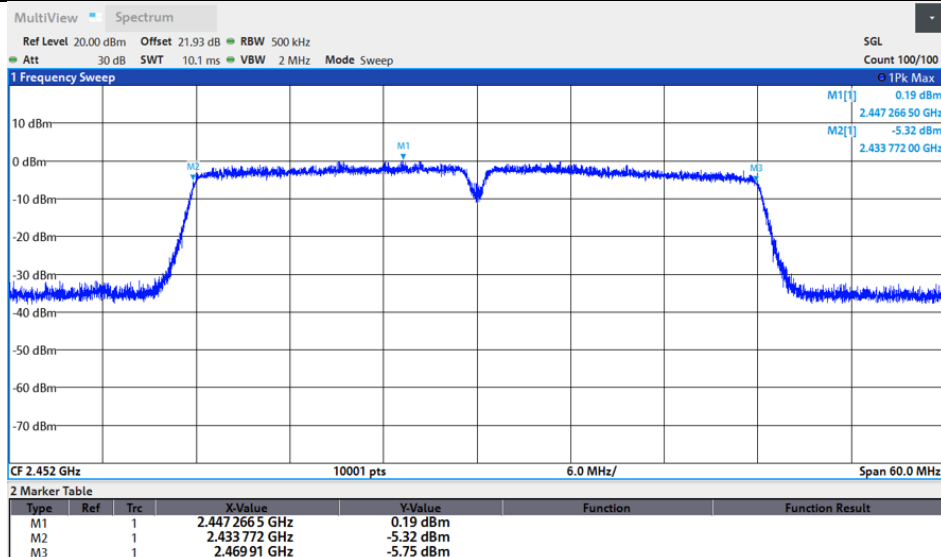




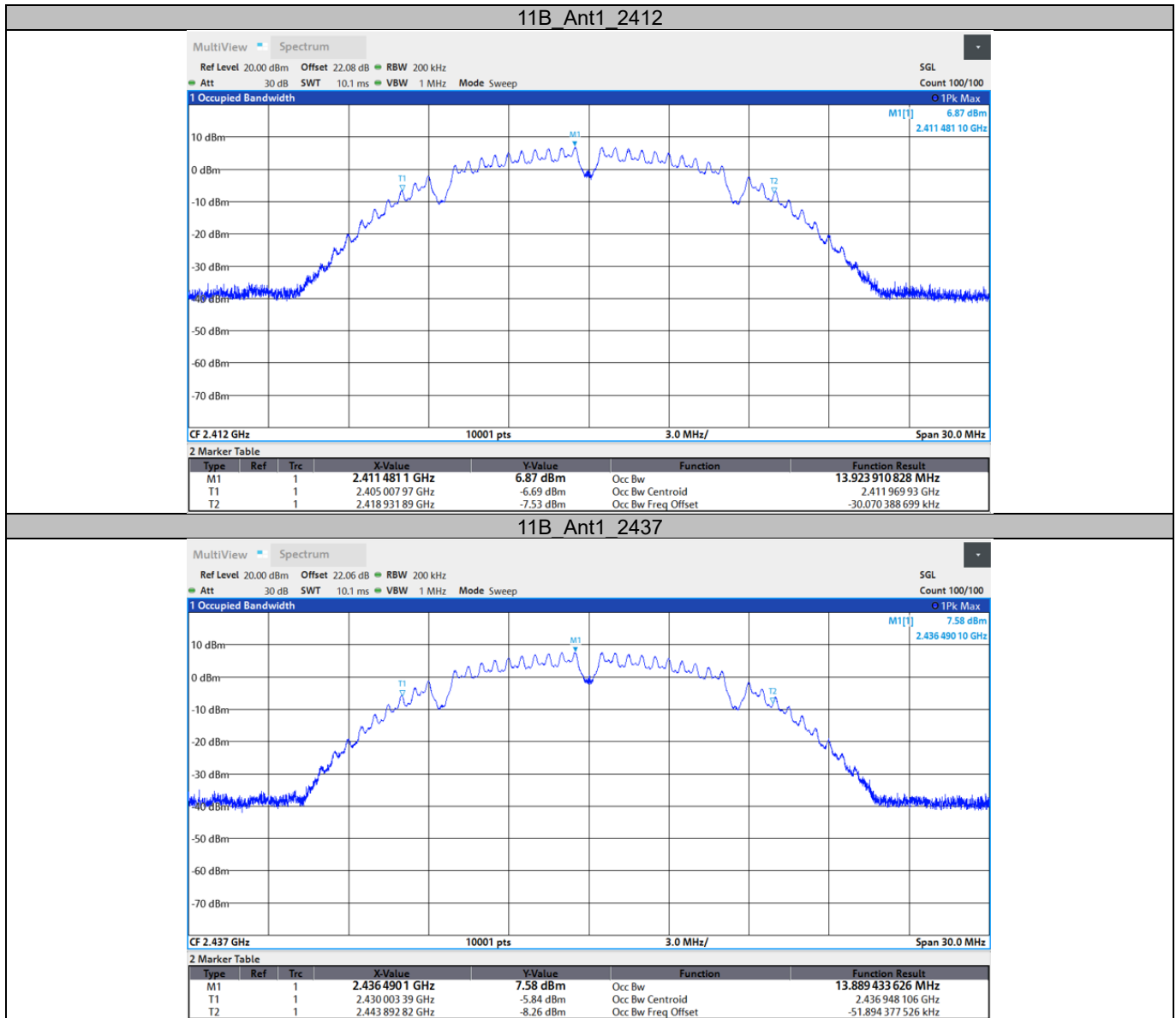
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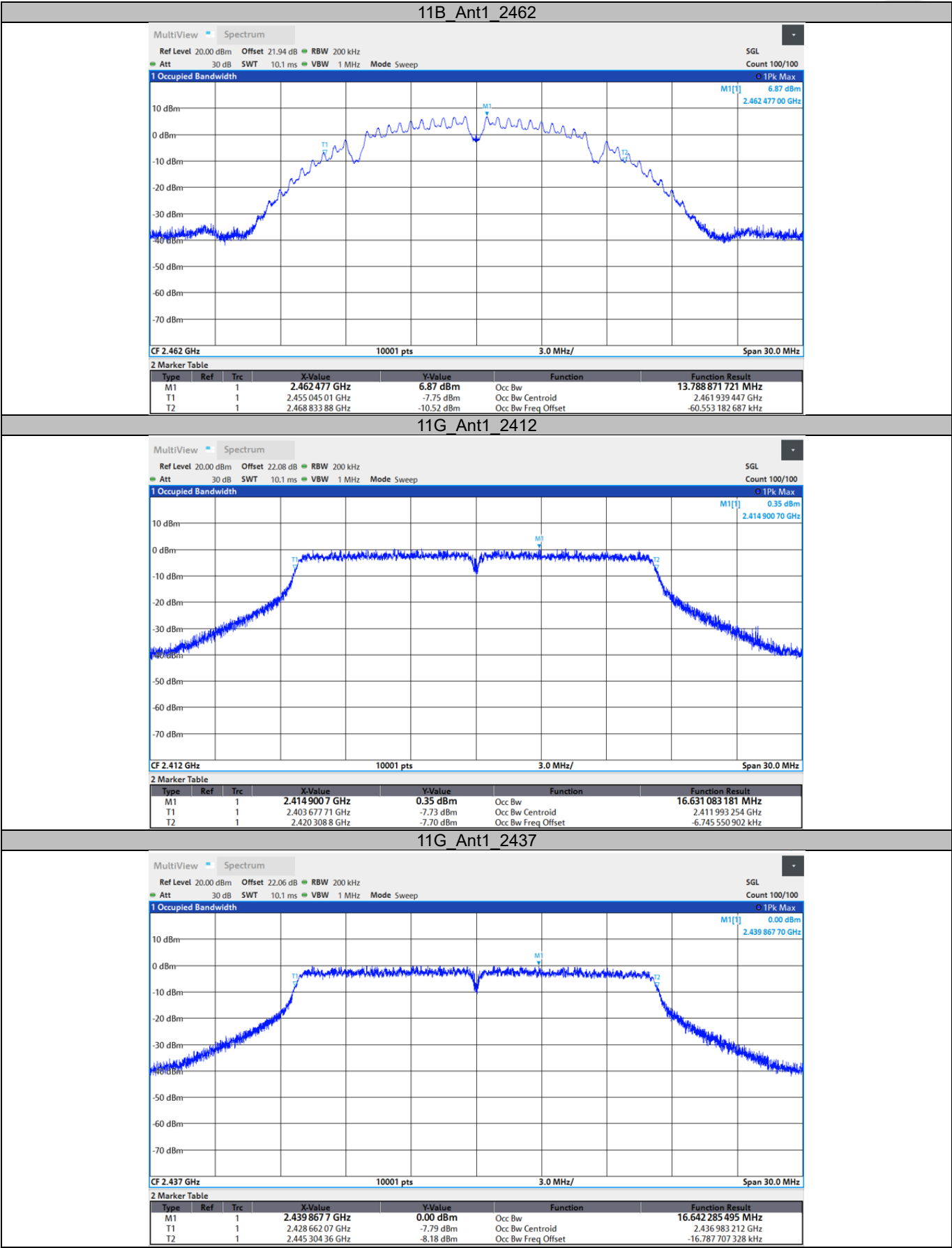


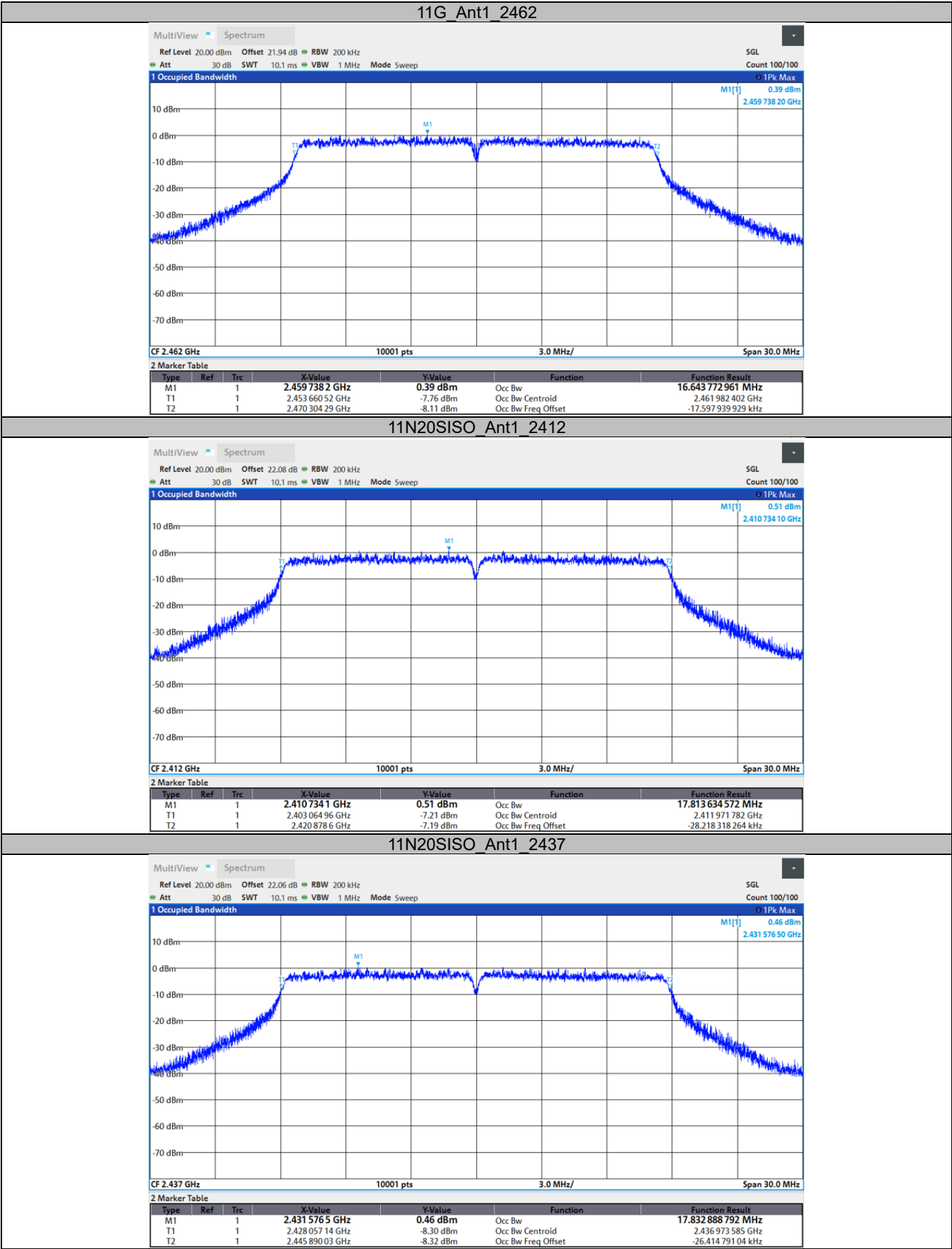
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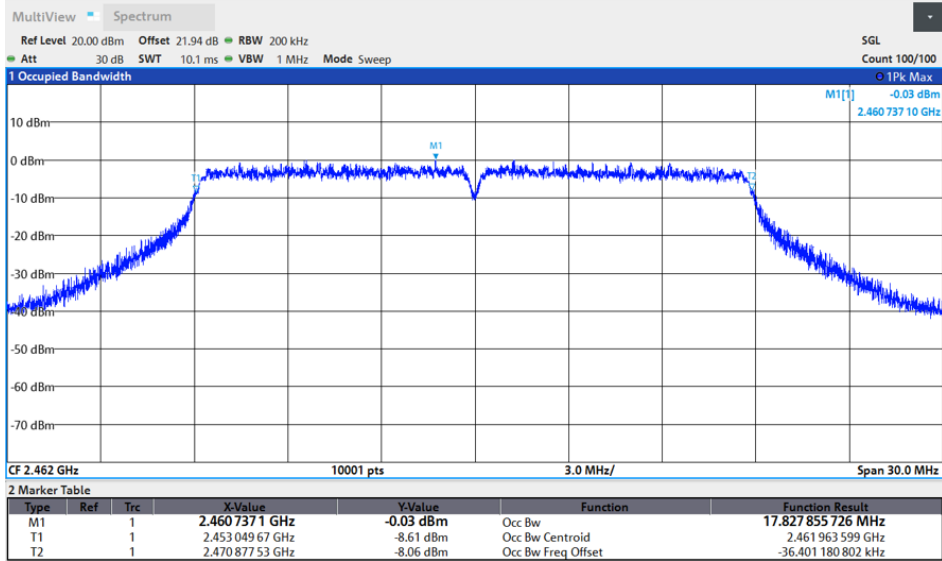
99% Bandwidth



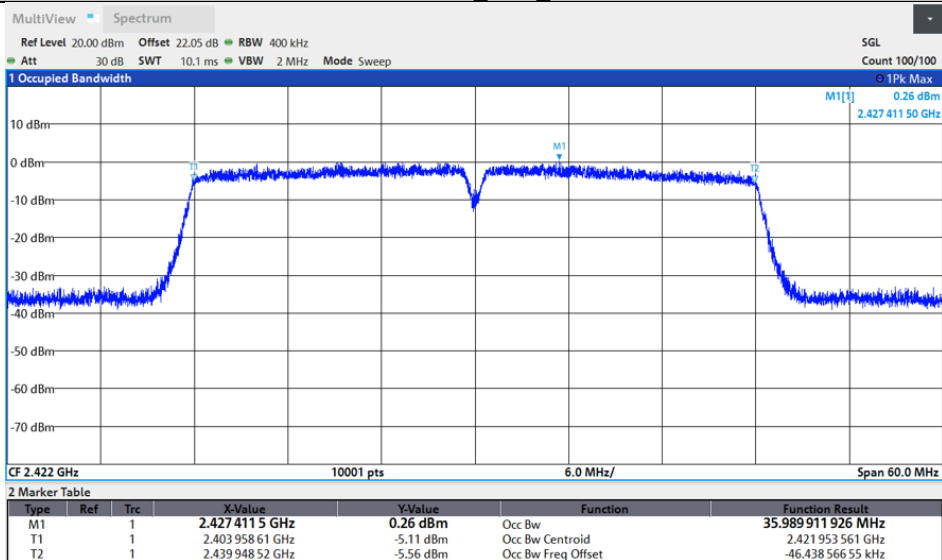




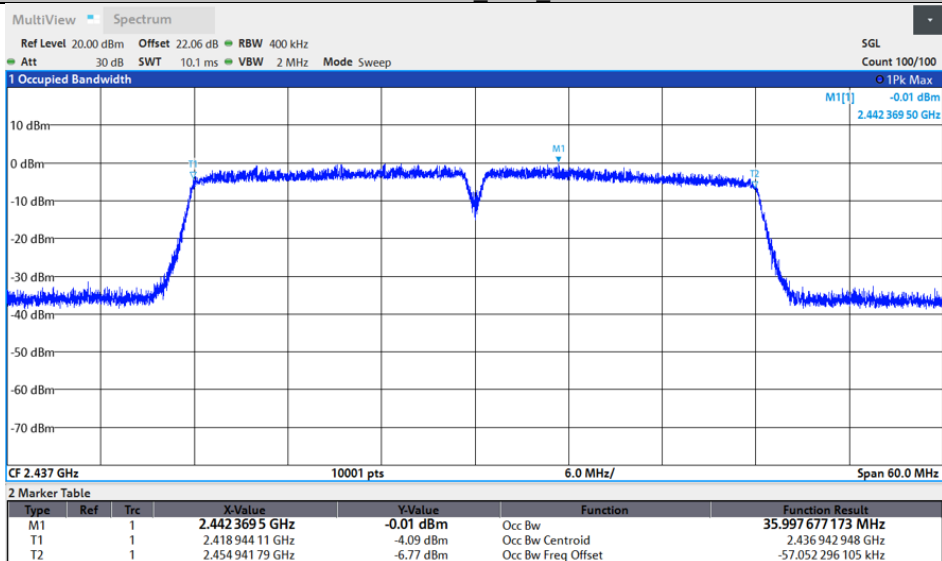
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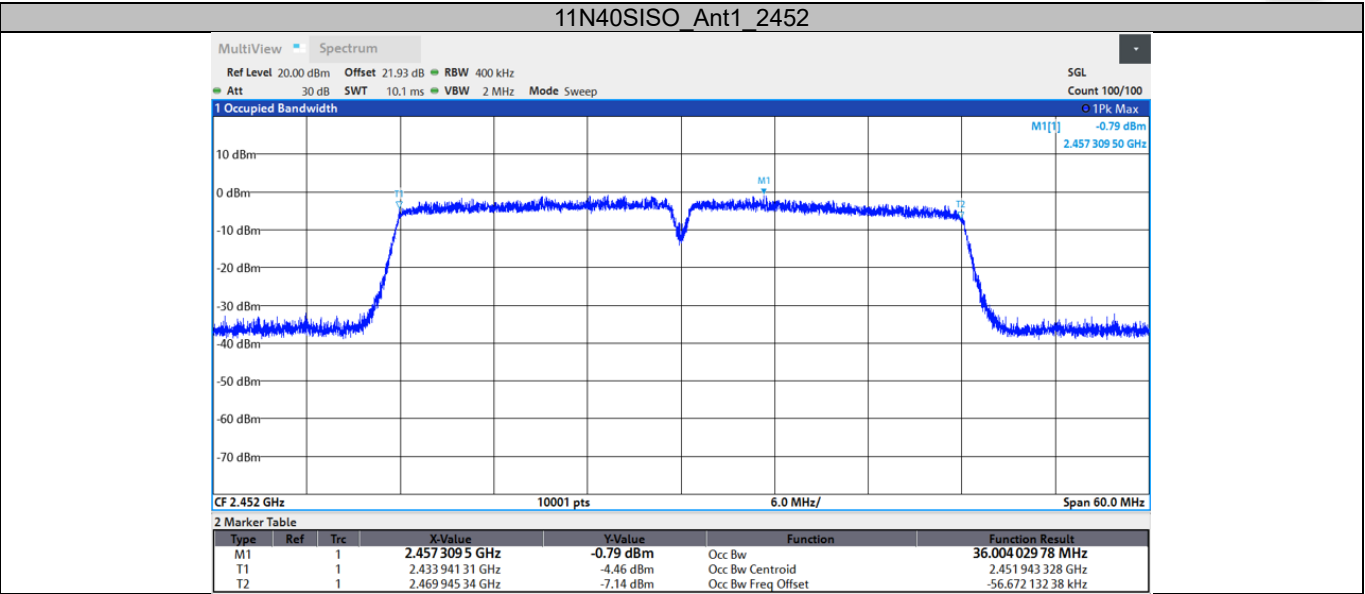


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437





10.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3kHz]

≤ 8

Test result

802.11b Test Result

Data transmission rate	Frequency (MHz)	Power spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
1Mbps	Low channel 2412MHz	-8.07	8	Pass
	Middle channel 2437MHz	-7.55	8	Pass
	High channel 2462MHz	-8.27	8	Pass

802.11g Test Result

Data transmission rate	Frequency (MHz)	Power spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
6Mbps	Low channel 2412MHz	-15.36	8	Pass
	Middle channel 2437MHz	-15.25	8	Pass
	High channel 2462MHz	-15.01	8	Pass

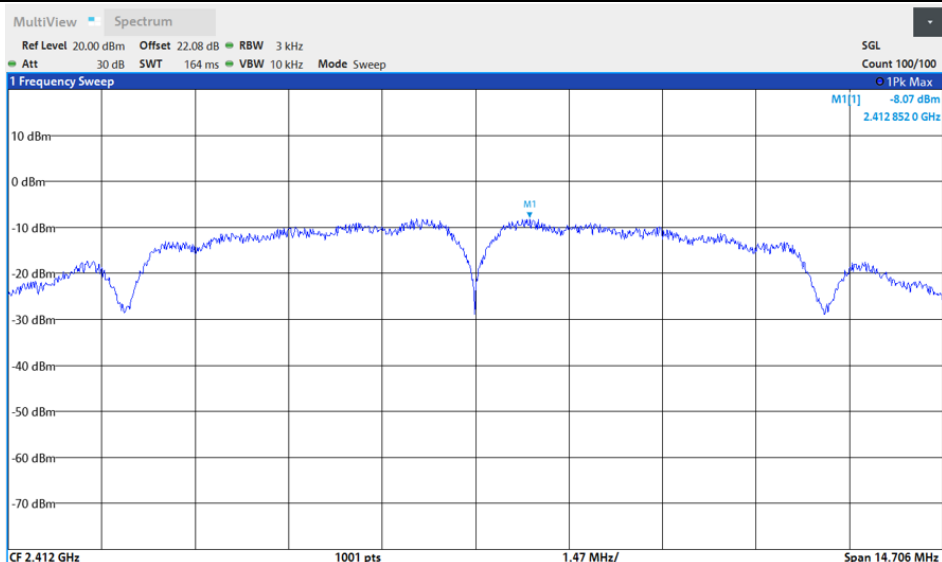
802.11n20 Test Result

Data transmission rate	Frequency (MHz)	Power spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
MCS0 (6.5Mbps)	Low channel 2412MHz	-14.28	8	Pass
	Middle channel 2437MHz	-14.63	8	Pass
	High channel 2462MHz	-15.10	8	Pass

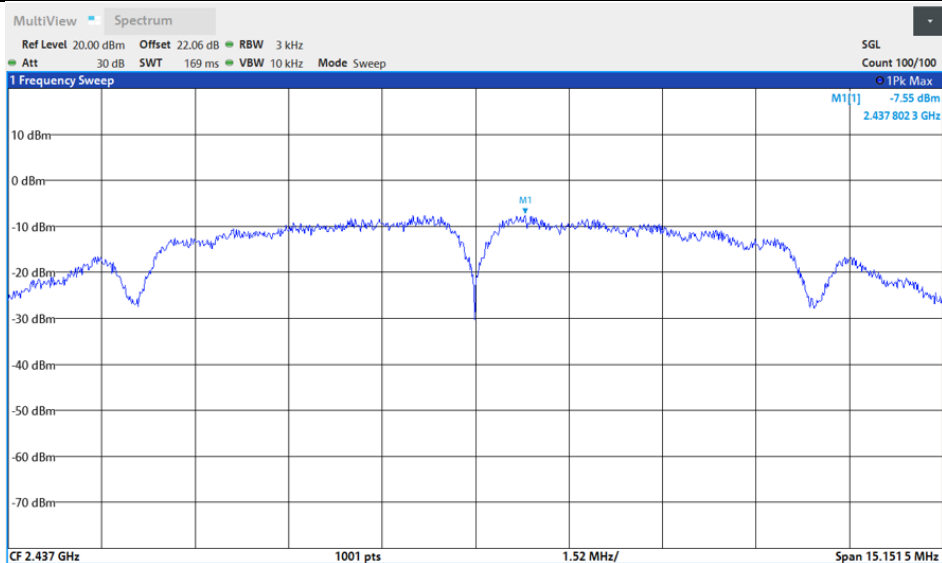
802.11n40 Test Result

Data transmission rate	Frequency (MHz)	Power spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
MCS0 (13.5Mbps)	Low channel 2422MHz	-16.97	8	Pass
	Middle channel 2437MHz	-17.20	8	Pass
	High channel 2452MHz	-17.90	8	Pass

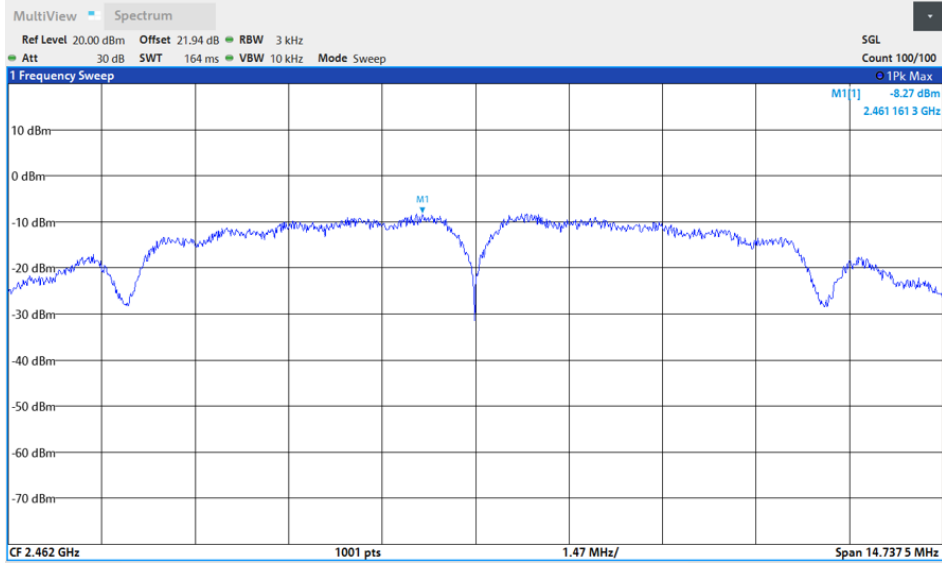
11B_Ant1_2412



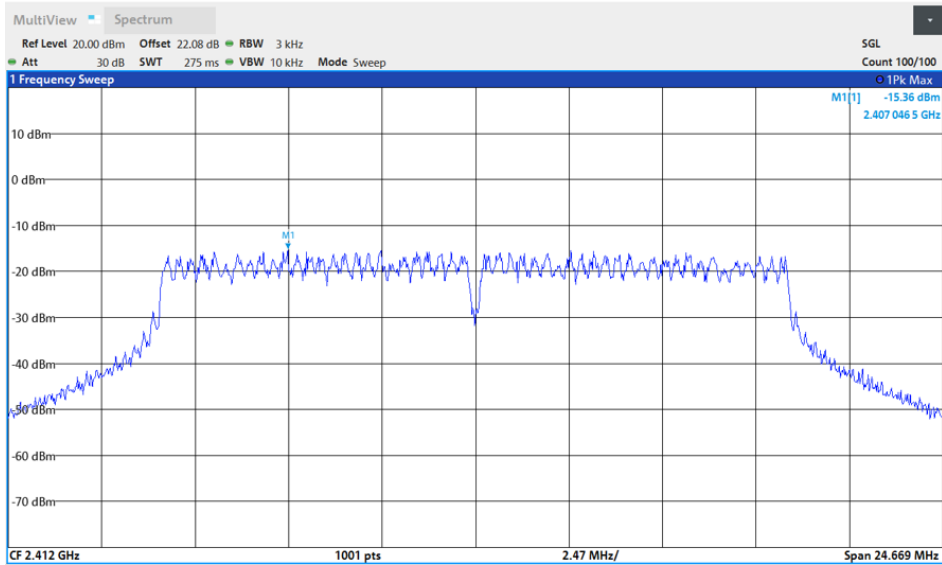
11B_Ant1_2437



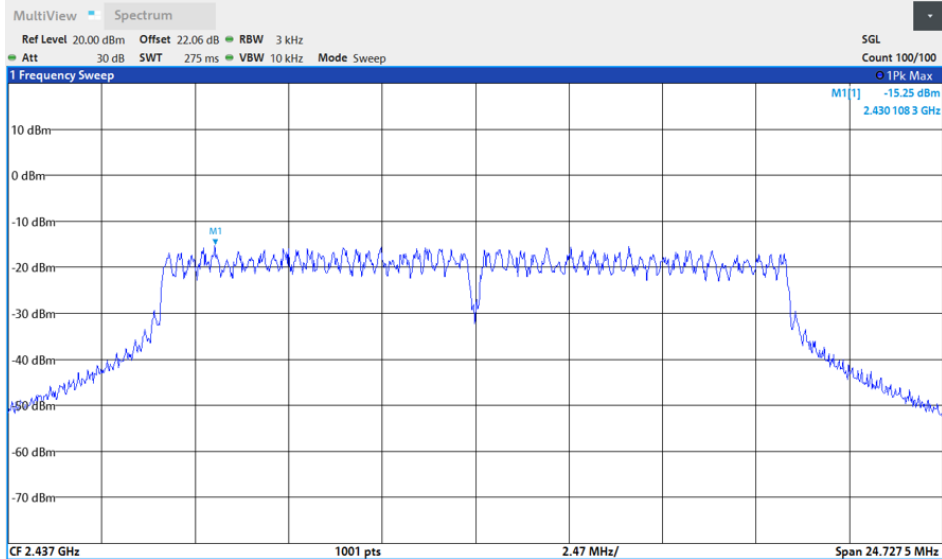
11B_Ant1_2462



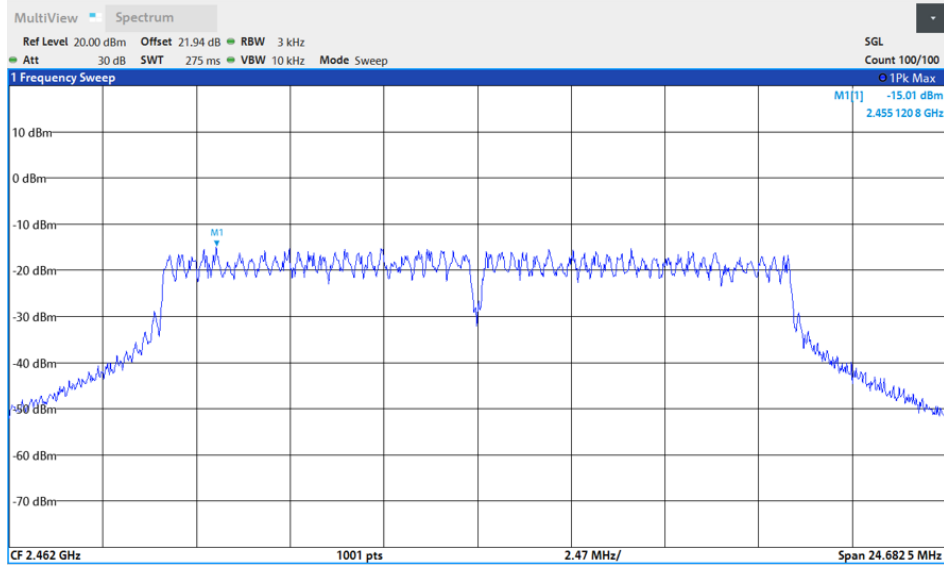
11G_Ant1_2412



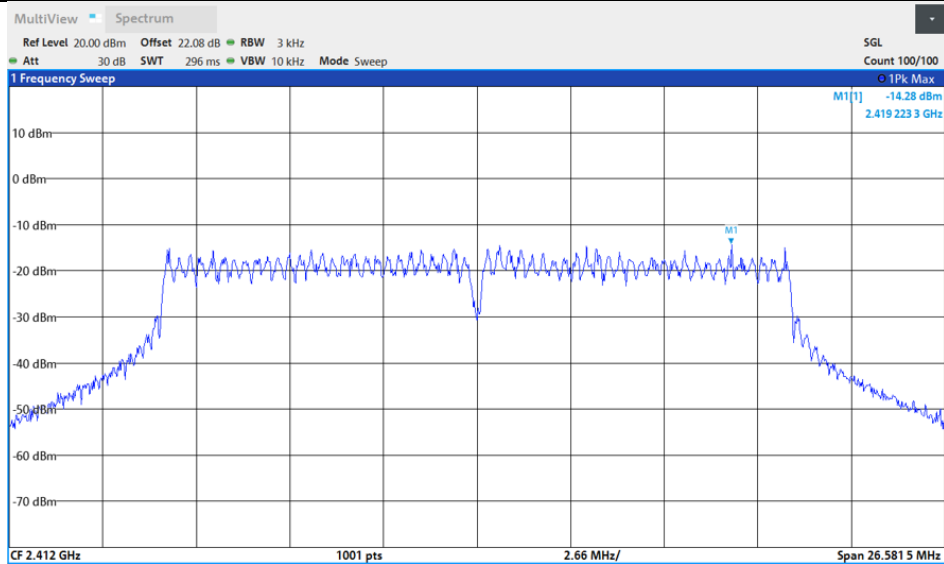
11G_Ant1_2437



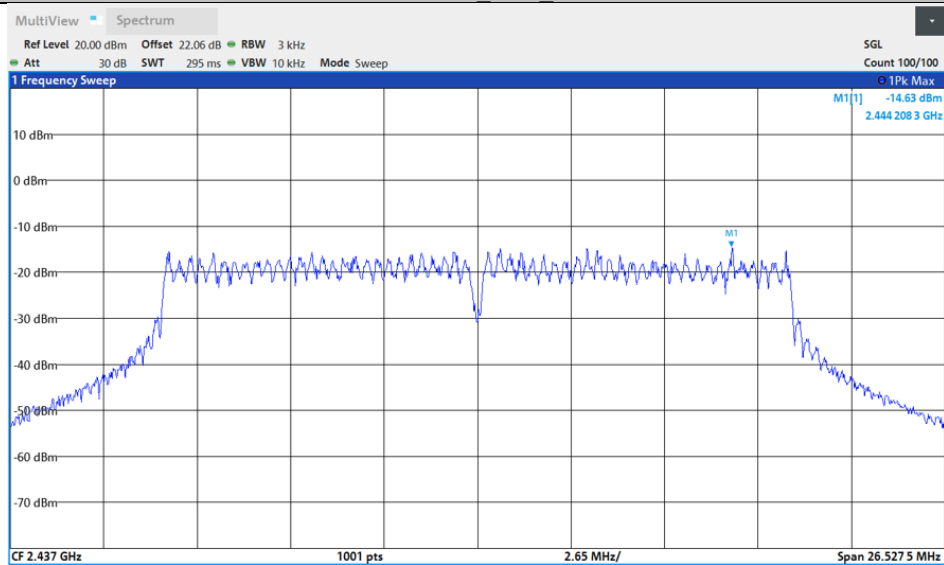
11G_Ant1_2462



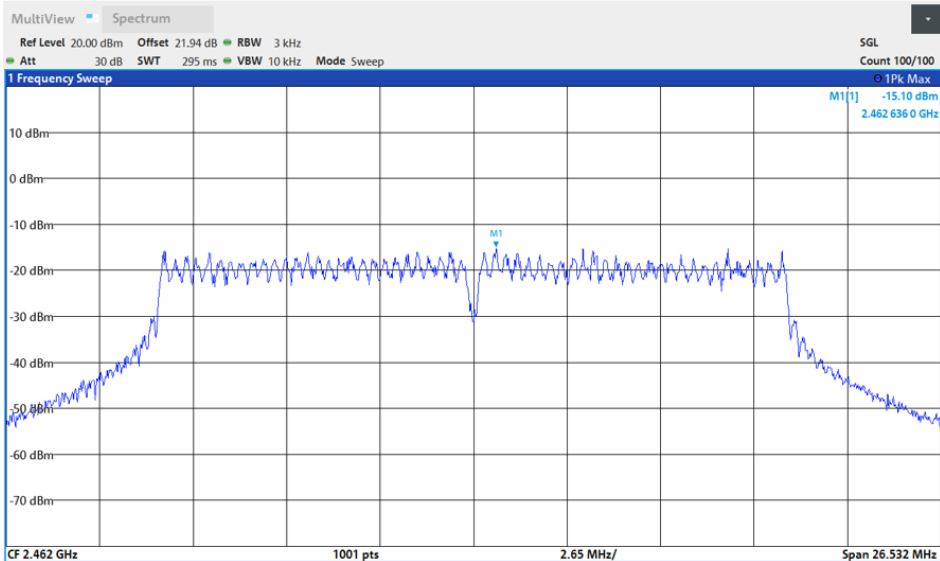
11N20SISO_Ant1_2412



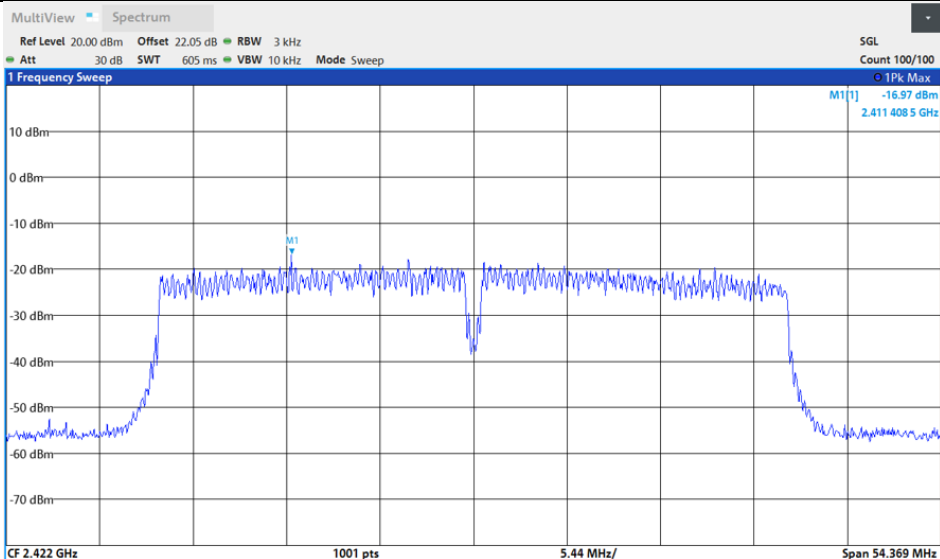
11N20SISO_Ant1_2437



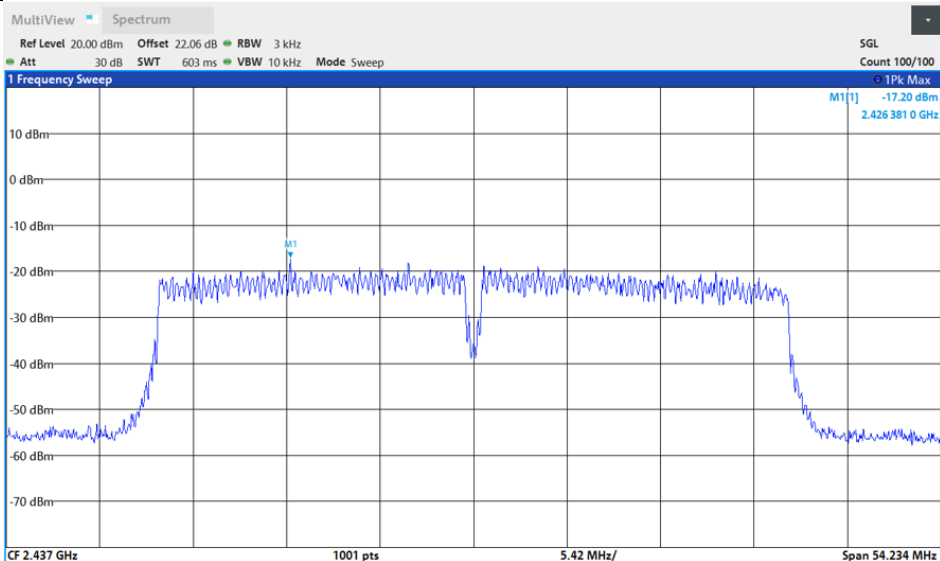
11N20SISO_Ant1_2462

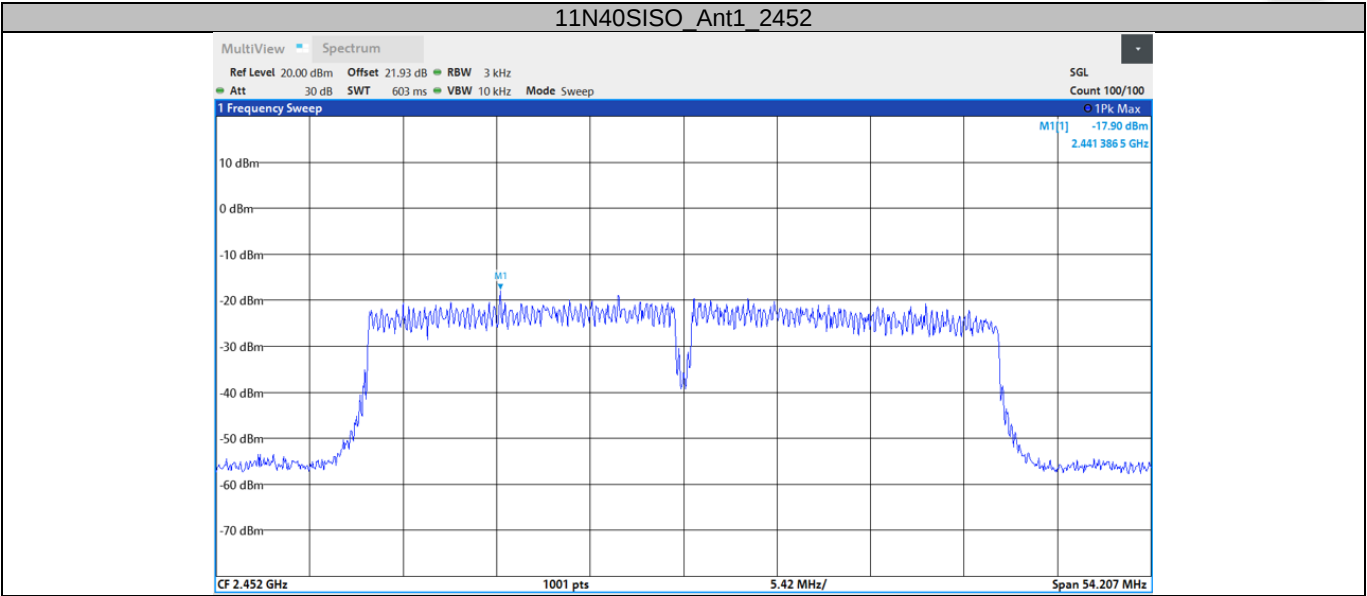


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437





10.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

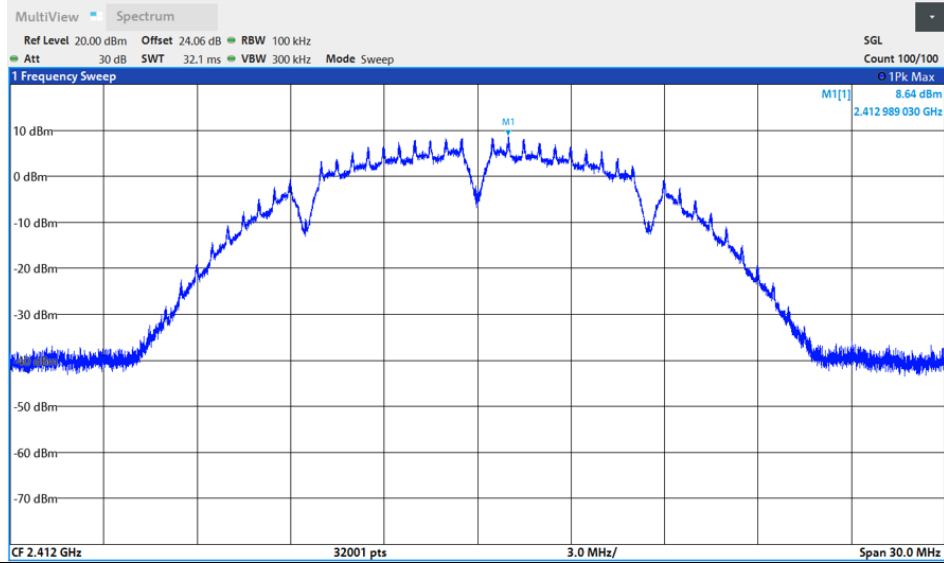
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

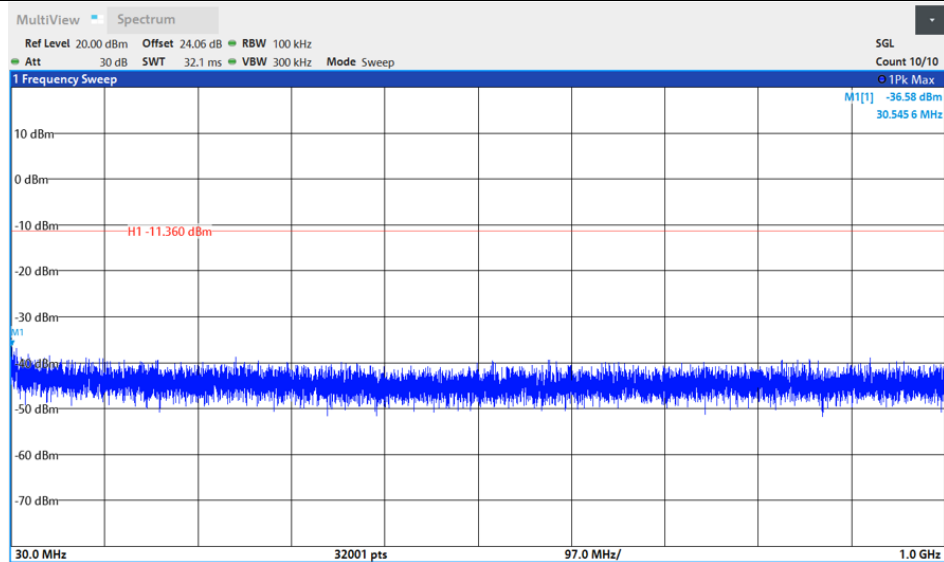
Spurious RF conducted emissions

Test Mode	Test Frequency (MHz)	Freq. Range (MHZ)	Result (dBm)	Limit (dBm)	Verdict
11B	2412	Reference	8.64	---	PASS
		30~1000	-36.58	<=-11.36	PASS
		1000~26500	-31.31	<=-11.36	PASS
	2437	Reference	9.33	---	PASS
		30~1000	-37.64	<=-10.67	PASS
		1000~26500	-31.95	<=-10.67	PASS
	2462	Reference	8.63	---	PASS
		30~1000	-37.67	<=-11.37	PASS
		1000~26500	-31.75	<=-11.37	PASS
11G	2412	Reference	1.28	---	PASS
		30~1000	-37.06	<=-18.72	PASS
		1000~26500	-31.25	<=-18.72	PASS
	2437	Reference	1.14	---	PASS
		30~1000	-37.73	<=-18.86	PASS
		1000~26500	-31.87	<=-18.86	PASS
	2462	Reference	1.36	---	PASS
		30~1000	-37.58	<=-18.64	PASS
		1000~26500	-31.62	<=-18.64	PASS
11N20	2412	Reference	1.38	---	PASS
		30~1000	-37.77	<=-18.62	PASS
		1000~26500	-31.52	<=-18.62	PASS
	2437	Reference	1.29	---	PASS
		30~1000	-37.48	<=-18.71	PASS
		1000~26500	-31.42	<=-18.71	PASS
	2462	Reference	0.89	---	PASS
		30~1000	-37.60	<=-19.11	PASS
		1000~26500	-31.61	<=-19.11	PASS
11N40	2422	Reference	-1.44	---	PASS
		30~1000	-36.89	<=-21.44	PASS
		1000~26500	-31.97	<=-21.44	PASS
	2437	Reference	-1.79	---	PASS
		30~1000	-37.48	<=-21.79	PASS
		1000~26500	-31.78	<=-21.79	PASS
	2452	Reference	-2.46	---	PASS
		30~1000	-37.79	<=-22.46	PASS
		1000~26500	-31.05	<=-22.46	PASS

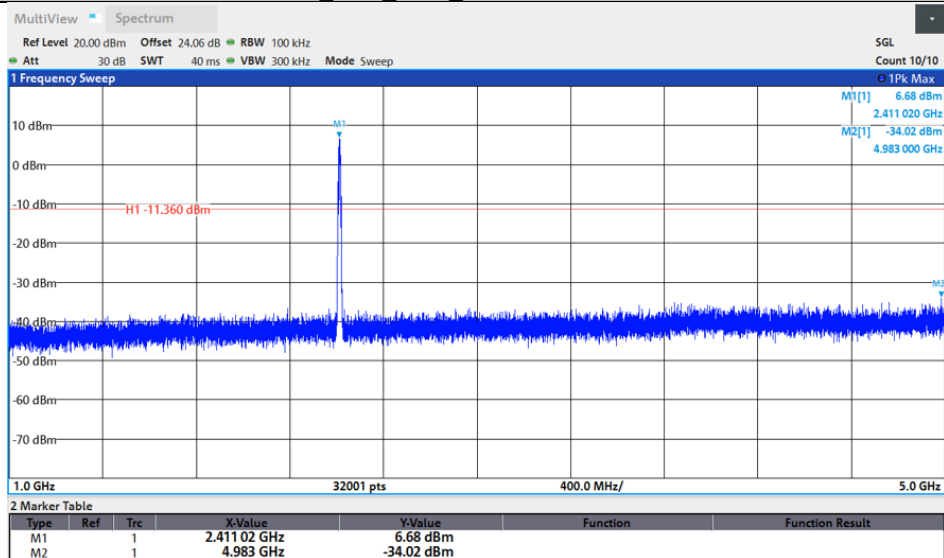
11B_Ant1_2412_Reference Point



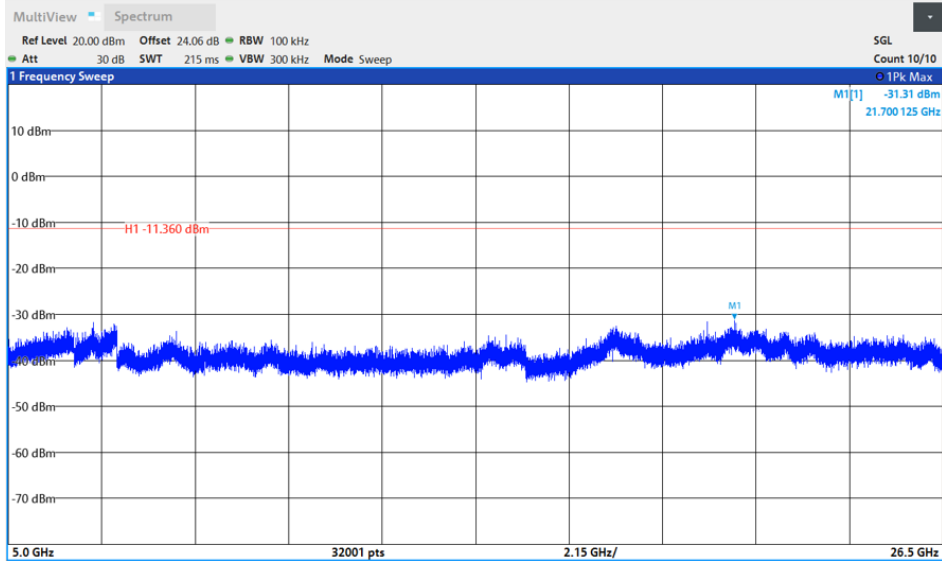
11B_Ant1_2412_30MHz-1000MHz



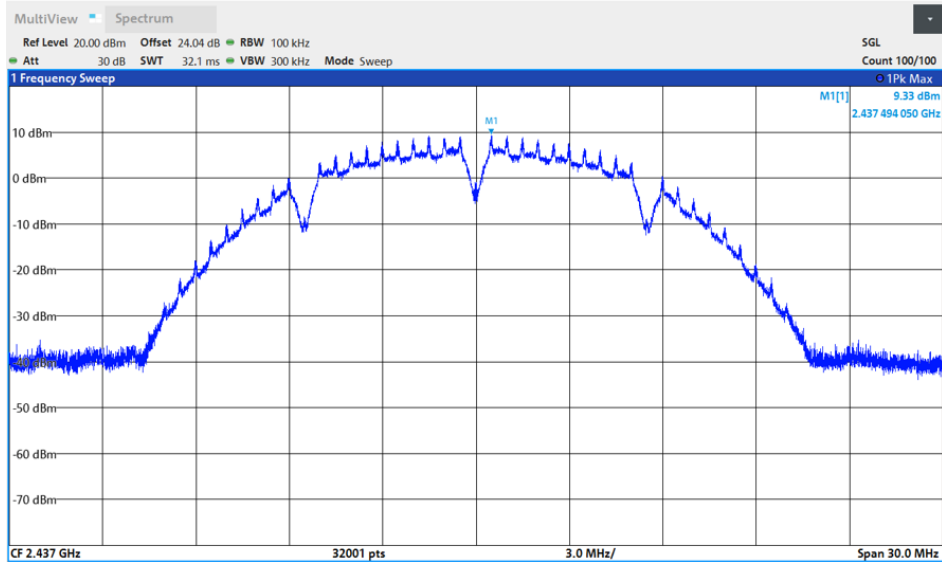
11B_Ant1_2412_1000MHz-5000MHz



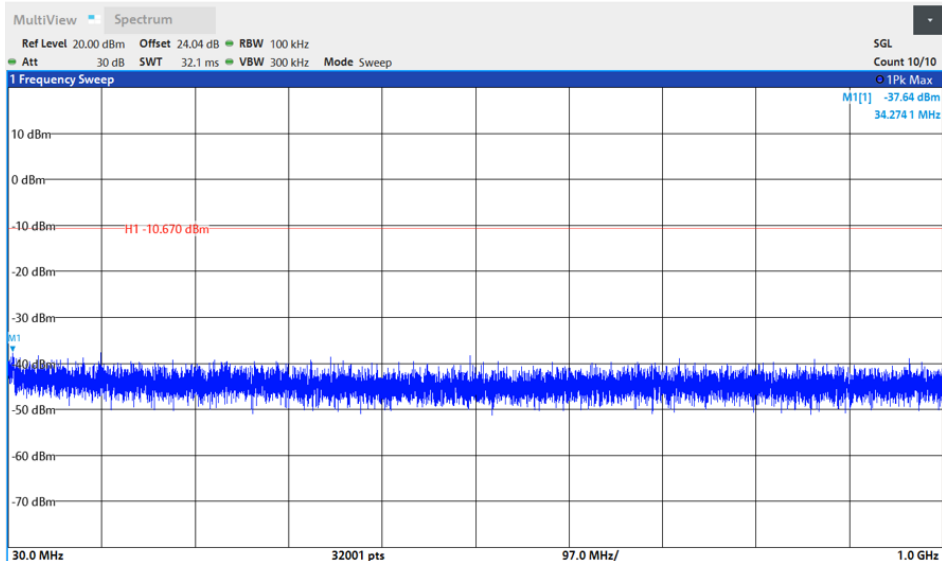
11B_Ant1_2412_5000MHz-26500MHz

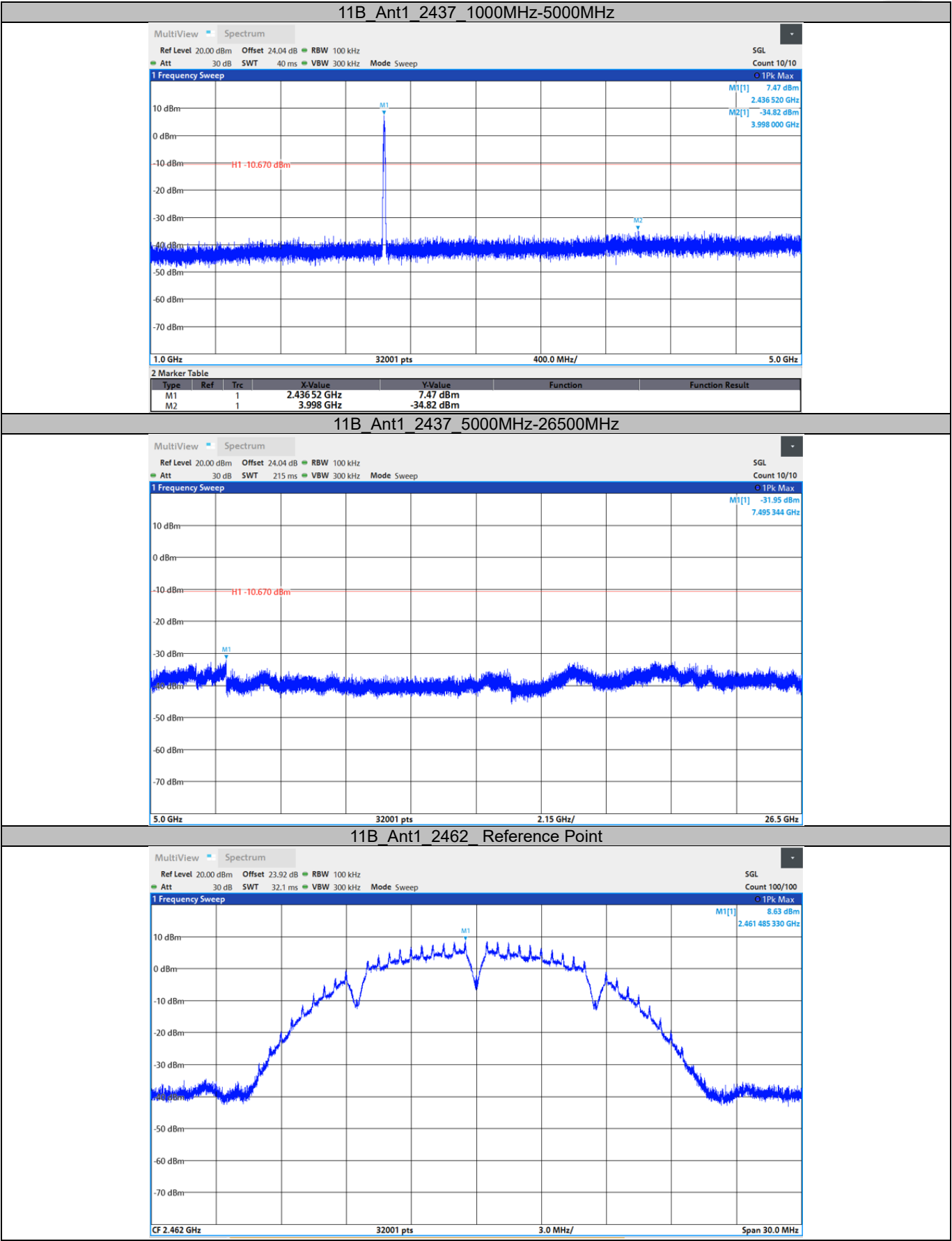


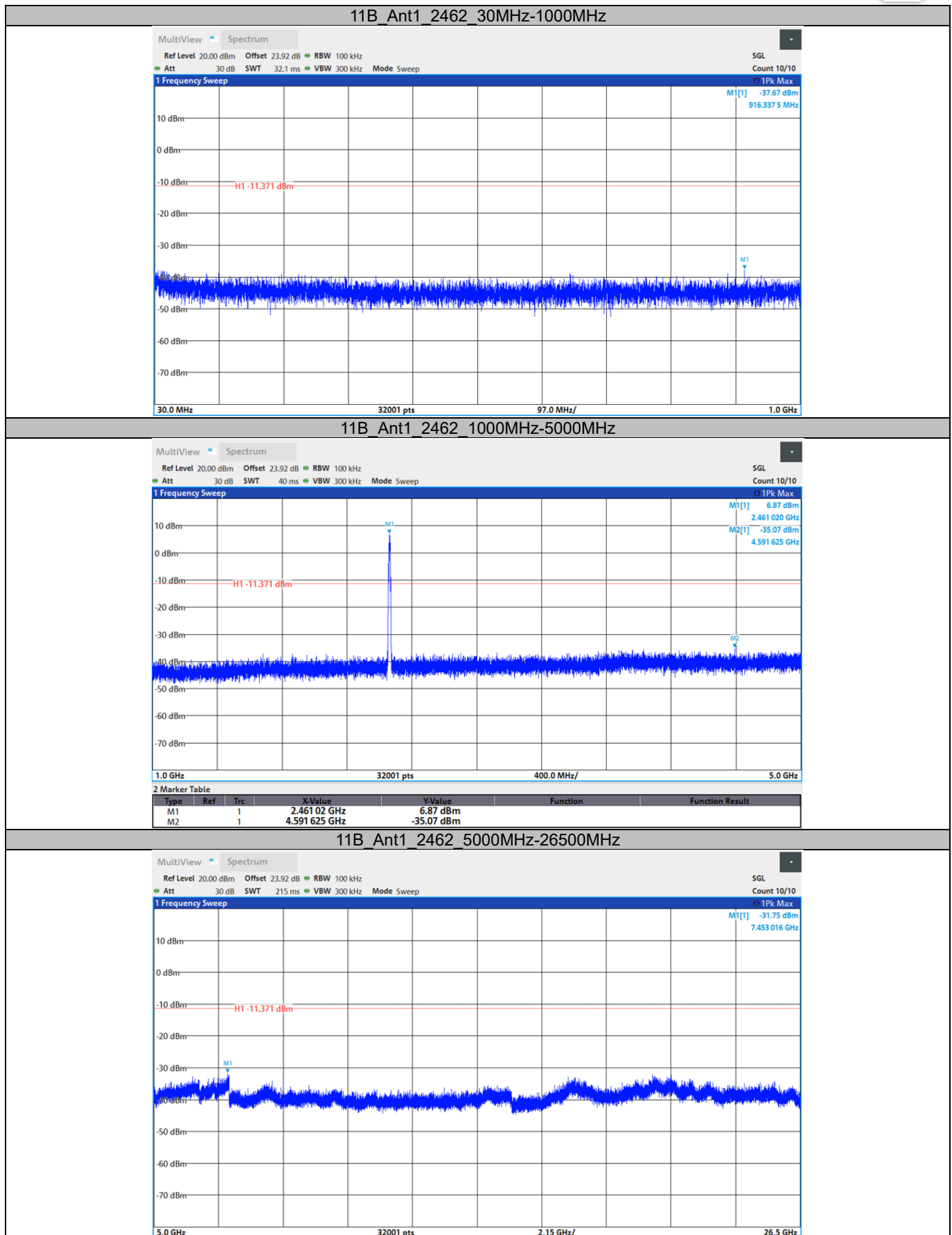
11B_Ant1_2437_Reference Point

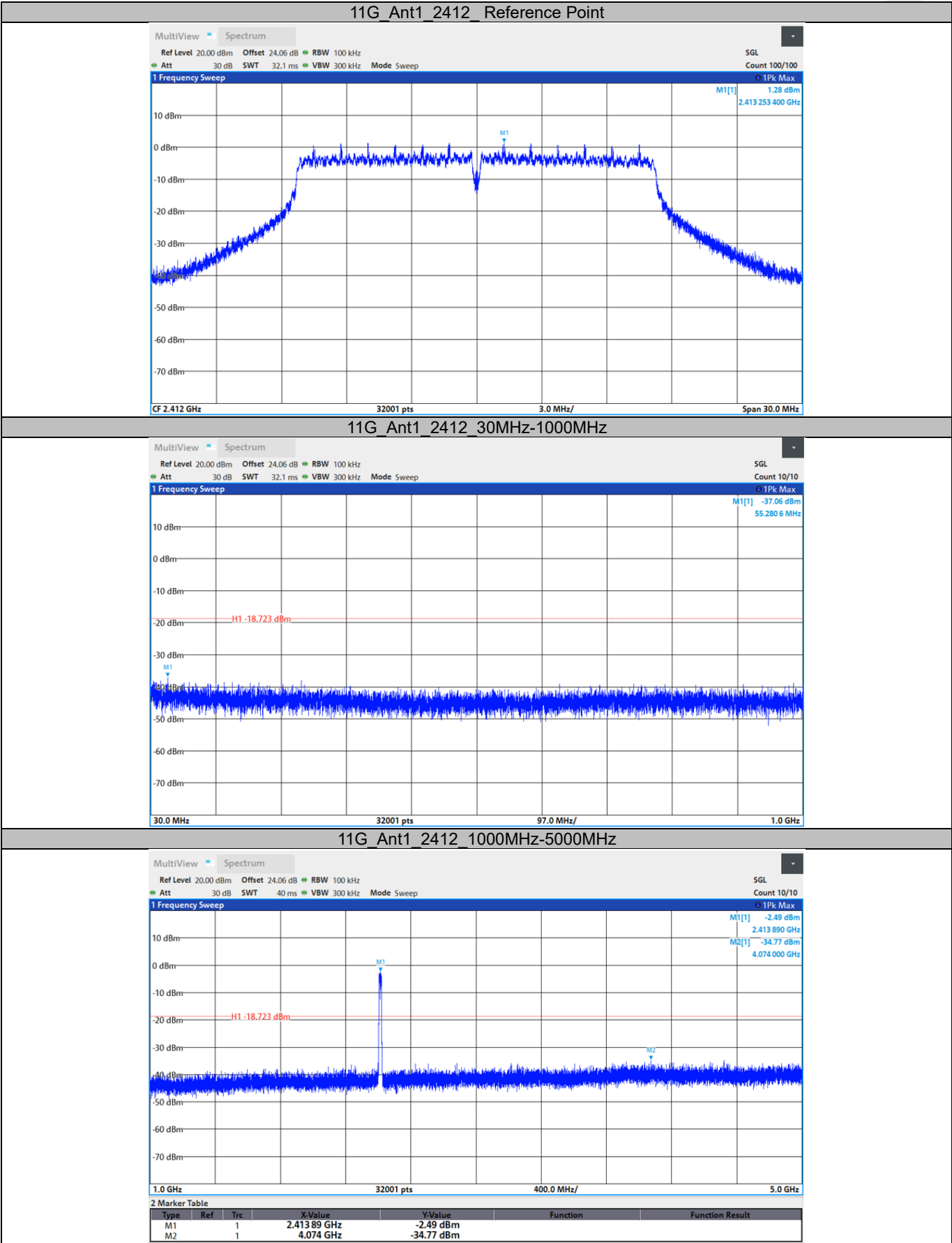


11B_Ant1_2437_30MHz-1000MHz

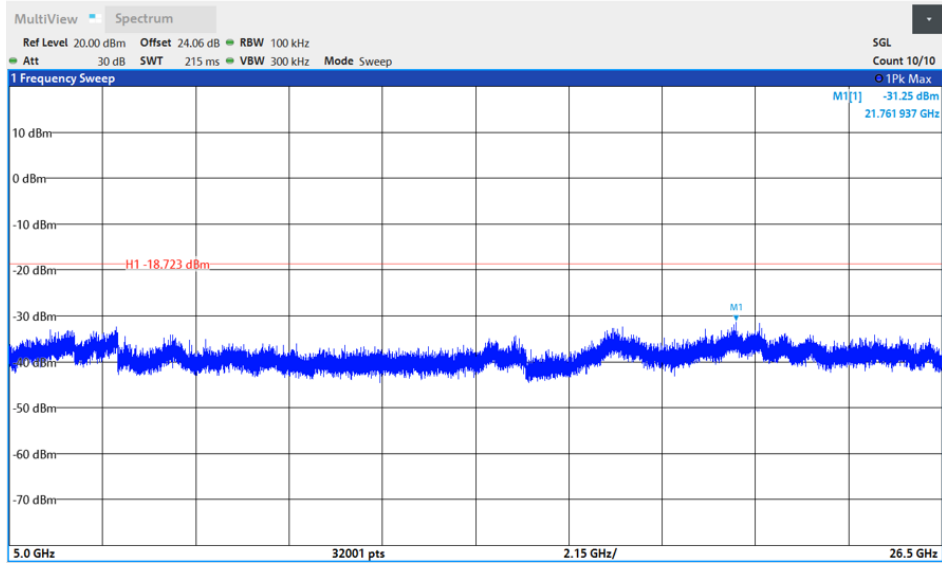




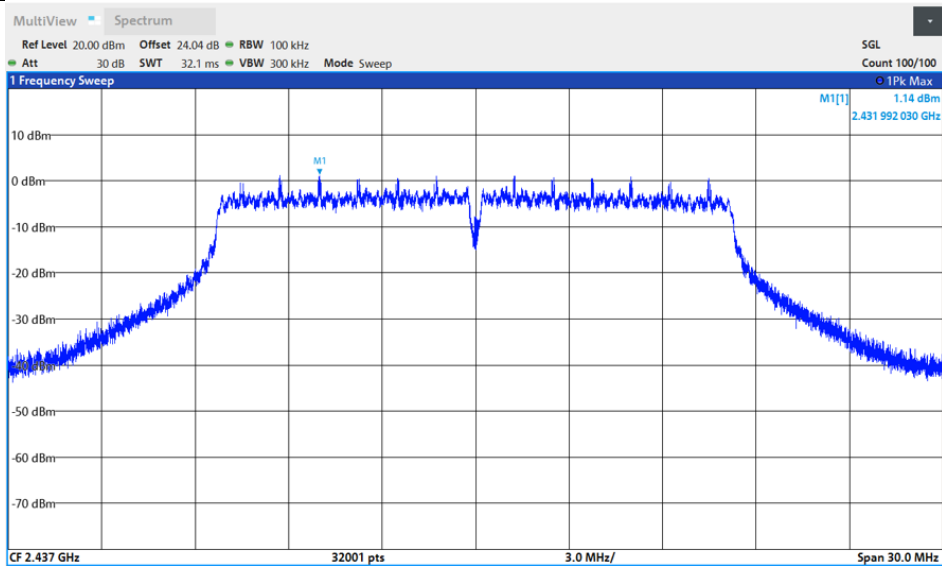




11G_Ant1_2412_5000MHz-26500MHz



11G_Ant1_2437 Reference Point



11G_Ant1_2437_30MHz-1000MHz

