

FCC - TEST REPORT

Report Number : **709502306411-00A** Date of Issue: Sep.01,2023Model : AXYUProduct Type : Wi-Fi and Bluetooth ModuleApplicant : Hangzhou Tuya Information Technology Co.,LtdAddress : Room701,Building3,More Center,No.87 GuDun
Road, Hangzhou, Zhejiang ChinaManufacturer : Hangzhou Tuya Information Technology Co.,LtdAddress : Room701,Building3,More Center,No.87 GuDun
Road, Hangzhou, Zhejiang ChinaTest Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : 64

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2 Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
No.16 Lane, 1951 Du Hui Road,
Shanghai 201108,
P.R. China

Test Firm FCC
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Number: 820234

Designation
number: CN1183

IC Company
Number: 25988

CAB identifier: CN0101

Telephone: +86 21 6141 0123
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3 Description of the Equipment under Test

Product: Wi-Fi and Bluetooth Module

Model no.: AXYU

FCC ID: 2ANDL-AXYU

Options and accessories: NA

Rating: 3V-3.6V DC

RF Transmission Frequency: For 802.11b/g/n(HT20)/ax(HE20): 2412~2462 MHz (Wi-Fi)
For 802.11n(HT40): 2422~2452 MHz (Wi-Fi)
For 802.15.1:2402~2480 MHz (BLE 5.1)

No. of Operated Channel: 2.4GHz WIFI: 11 for 802.11b/g/n(HT20)/ax(HE20)
7 for 802.11n(HT40)
2.4GHz BLE: 40

Modulation: Direct Sequence Spread Spectrum (DSSS) for 802.11b
Orthogonal Frequency Division Multiplexing (OFDM) for
802.11g/n; Orthogonal Frequency Division Multiple Access
(OFDMA) for 802.11ax; 2.4GHz BLE: GFSK

Channel list:

802.11b/g/n(HT20)/ax(HE20)				802.11n(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442	3	2422	8	2447MHz
2	2417	8	2447	4	2427	9	2452MHz
3	2422	9	2452	5	2432		
4	2427	10	2457	6	2437		
5	2432	11	2462	7	2442		
6	2437						

Bluetooth Low Energy							
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



Antenna Type: onboard PCB antenna

Antenna Gain: 1.3dBi

Description of the EUT: The Equipment Under Test (EUT) is a Wi-Fi and Bluetooth module which support 2.4GHz Wi-Fi and BLE 5.1(support 1Mbps and 2Mbps data rate). We tested it and listed the worst data in this report.

Test sample no.: SHA-750951-1

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, antenna gain or any information supplied.



4 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 (2013).

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	13-15	Site 1	☒	☐	☐
§15.247 (b) (1)	Conducted peak output power	16	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	17-22	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	23-28	Site 1	☒	☐	☐
§15.247(d)	Spurious RF conducted emissions	29-44	Site 1	☒	☐	☐
§15.247(d)	Band edge	45-50	Site 1	☒	☐	☐
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	51-59	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an onboard PCB antenna, which gain is 1.3dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This report was based on the report 7095021029112-00 for adjusting the antenna end impedance matching.

So, in this test report only test data of "Spurious radiated emissions for transmitter" were new data, other test data were quoted from report 7095021029112-00.

This submittal(s) (test report) is intended for FCC ID: 2ANDL-AXYU complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules

This report is only for the 2.4GHz Wi-Fi test report, for the 2.4GHz BLE test report please refer to 709502306441-00B.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

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

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

Sample Received Date: August 15, 2023

Testing Start Date: August 17, 2023

Testing End Date: August 25, 2023

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

Reviewed by:

Prepared by:

Tested by:

Hui Tong



Jiayi Xu

Cheng Huali

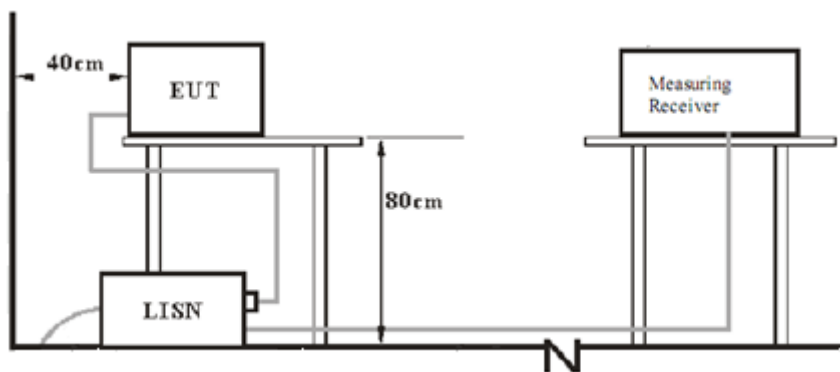
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Project Engineer

Cheng Huali
Test Engineer

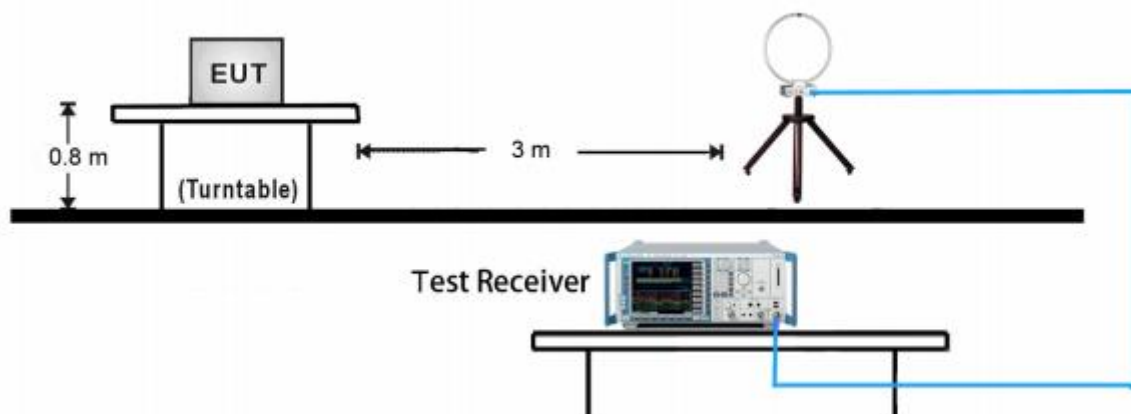
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

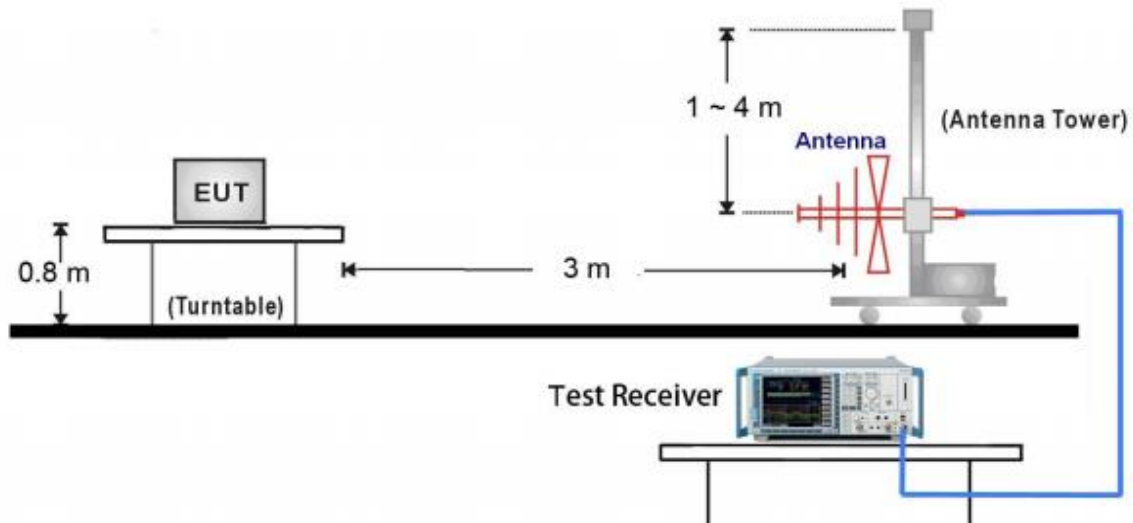


7.2 Radiated test setups

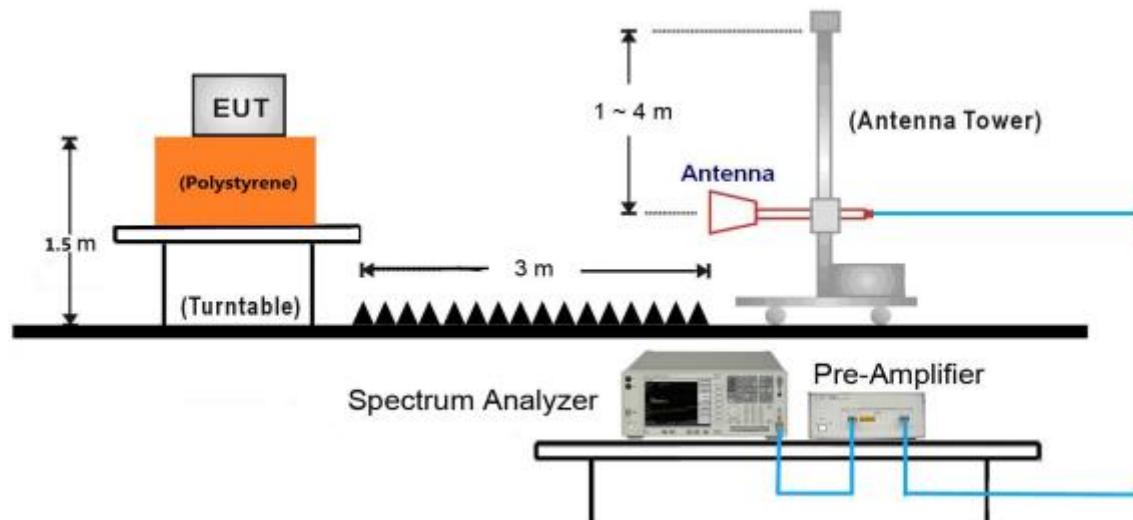
9kHz ~ 30MHz Test Setup:



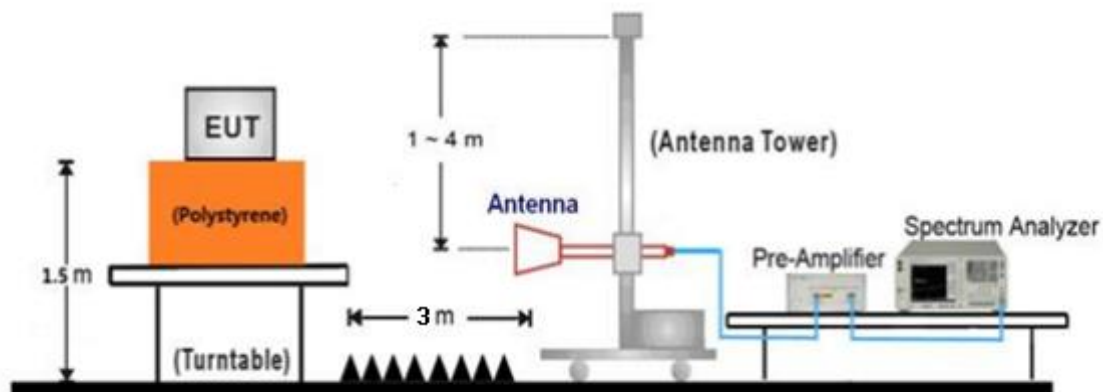
30MHz ~ 1GHz Test Setup:



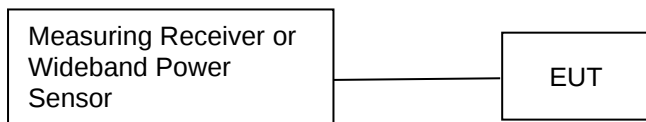
1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	E470	PF-OU5TS7 17/09

Test software: RDTool V1.0.17

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Power level setting
802.11b	1	1	DSSS	Firmware default
	6	1	DSSS	Firmware default
	11	1	DSSS	Firmware default
802.11g	1	6	OFDM	Firmware default
	6	6	OFDM	Firmware default
	11	6	OFDM	Firmware default
802.11n HT20	1	MCS0	OFDM	Firmware default
	6	MCS0	OFDM	Firmware default
	11	MCS0	OFDM	Firmware default
802.11 ax(HE20)	1	MCS0	OFDMA	Firmware default
	6	MCS0	OFDMA	Firmware default
	11	MCS0	OFDMA	Firmware default
802.11n HT40	3	MCS0	OFDM	Firmware default
	6	MCS0	OFDM	Firmware default
	9	MCS0	OFDM	Firmware default

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.

9 Technical Requirement

9.1 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

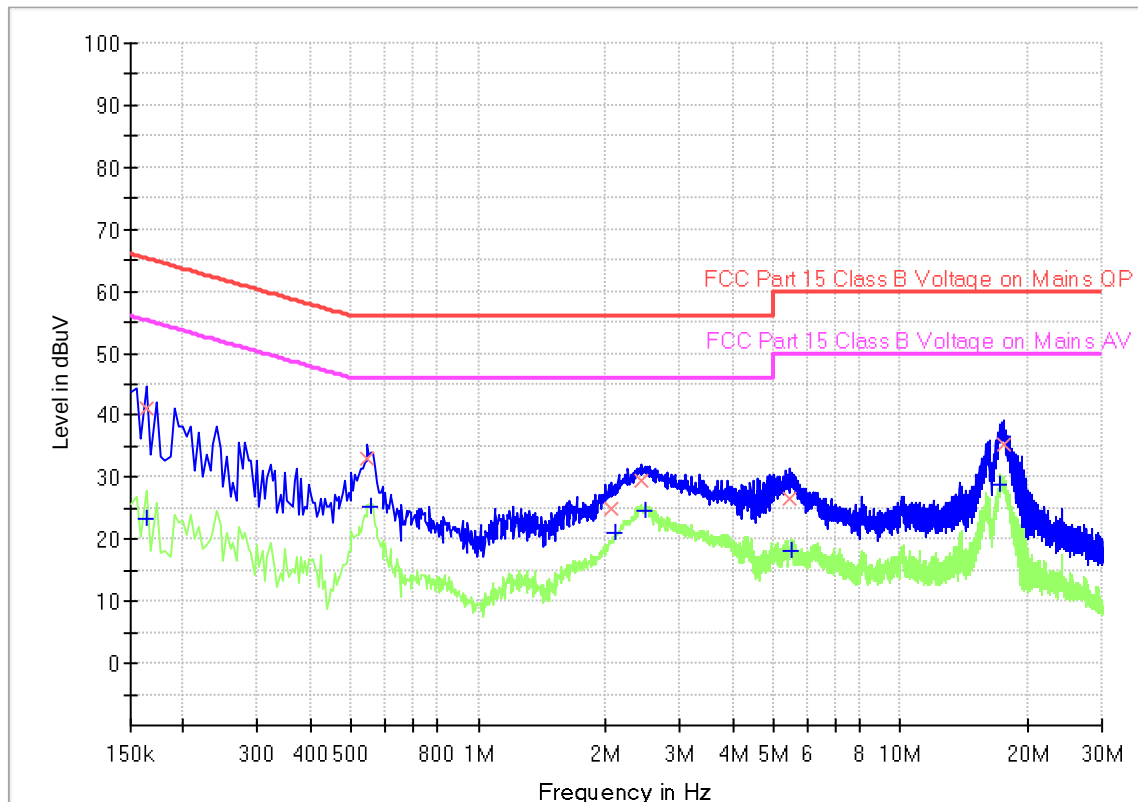
Limit

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

Product Type : Wi-Fi and Bluetooth module
 M/N : AXYU
 Operating Condition : Mode 1: Tx_2412MHz for 802.11n20
 Test Specification : L-line
 Comment : AC 120V/60Hz (powered by notebook)

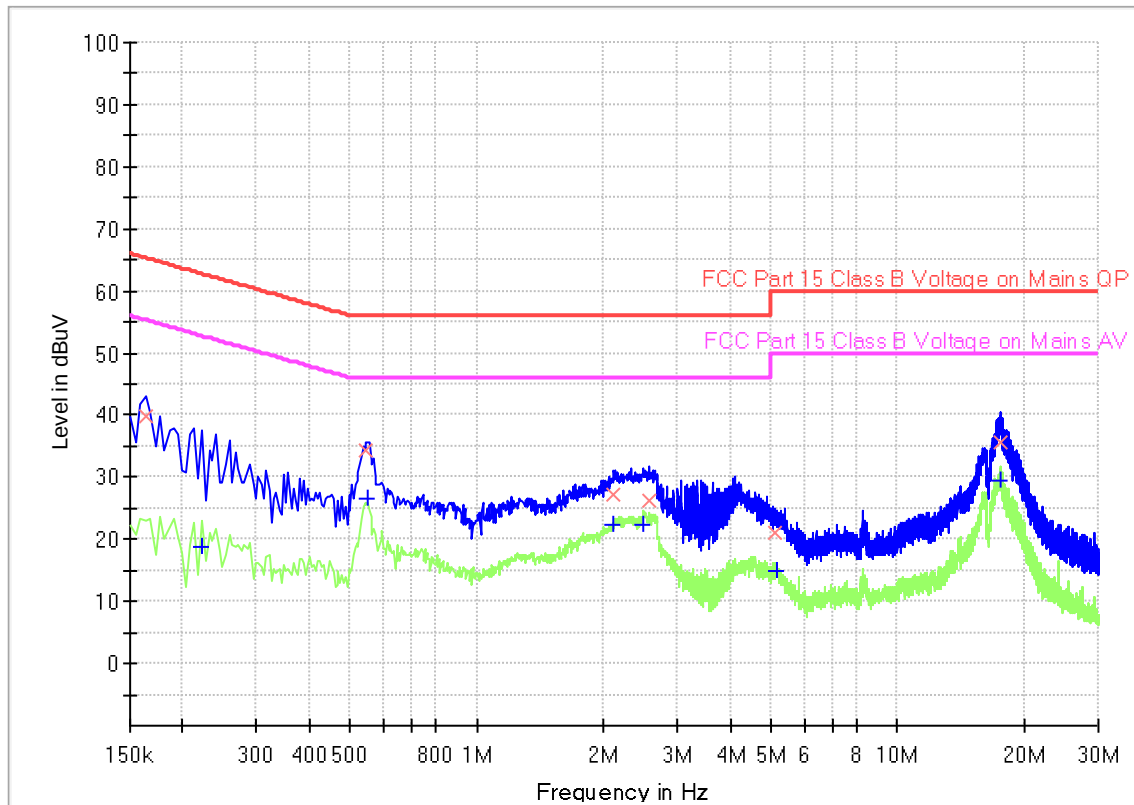


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	---	23.20	55.28	32.08	1000.0	9.000	L1	19.5
0.163500	41.19	---	65.28	24.09	1000.0	9.000	L1	19.5
0.546000	32.98	---	56.00	23.02	1000.0	9.000	L1	19.5
0.555000	---	25.15	46.00	20.85	1000.0	9.000	L1	19.5
2.062500	24.85	---	56.00	31.15	1000.0	9.000	L1	19.5
2.121000	---	20.95	46.00	25.05	1000.0	9.000	L1	19.5
2.440500	29.32	---	56.00	26.68	1000.0	9.000	L1	19.5
2.472000	---	24.59	46.00	21.41	1000.0	9.000	L1	19.5
5.482500	26.50	---	60.00	33.50	1000.0	9.000	L1	19.6
5.491500	---	18.23	50.00	31.77	1000.0	9.000	L1	19.6
17.169000	---	28.85	50.00	21.15	1000.0	9.000	L1	19.8
17.488500	35.37	---	60.00	24.63	1000.0	9.000	L1	19.8

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

Product Type : Wi-Fi and Bluetooth module
 M/N : AXYU
 Operating Condition : Mode 1: Tx_2412MHz for 802.11n20
 Test Specification : N-line
 Comment : AC 120V/60Hz (powered by notebook)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	39.74	---	65.28	25.54	1000.0	9.000	N	19.5
0.222000	---	18.72	52.74	34.02	1000.0	9.000	N	19.5
0.546000	34.35	---	56.00	21.65	1000.0	9.000	N	19.5
0.550500	---	26.61	46.00	19.39	1000.0	9.000	N	19.5
2.116500	---	22.27	46.00	23.73	1000.0	9.000	N	19.5
2.121000	27.27	---	56.00	28.73	1000.0	9.000	N	19.5
2.490000	---	22.41	46.00	23.59	1000.0	9.000	N	19.5
2.566500	26.14	---	56.00	29.86	1000.0	9.000	N	19.5
5.131500	21.08	---	60.00	38.92	1000.0	9.000	N	19.6
5.158500	---	14.80	50.00	35.20	1000.0	9.000	N	19.6
17.515500	35.71	---	60.00	24.29	1000.0	9.000	N	19.8
17.623500	---	29.32	50.00	20.68	1000.0	9.000	N	19.8

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

9.2 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
RBW > the 6dB bandwidth of the emission being measured, VBW $\geq$ 3RBW, Span $\geq$ 3RBW
Sweep = auto, Detector function = peak, Trace = max hold.
2. Add a correction factor to the display.
3. Use a power meter to measure the conducted peak output power.

Limits

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

Test result

802.11b

Frequency (MHz)	Conducted Peak Output Power(dBm)	Result
Low channel 2412MHz	18.22	Pass
Middle channel 2437MHz	18.63	Pass
High channel 2462MHz	18.64	Pass

802.11g

Frequency (MHz)	Conducted Peak Output Power(dBm)	Result
Low channel 2412MHz	24.15	Pass
Middle channel 2437MHz	24.09	Pass
High channel 2462MHz	24.10	Pass

802.11n(HT20)

Frequency (MHz)	Conducted Peak Output Power(dBm)	Result
Low channel 2412MHz	24.98	Pass
Middle channel 2437MHz	24.96	Pass
High channel 2462MHz	24.95	Pass

802.11n(HT40)

Frequency (MHz)	Conducted Peak Output Power(dBm)	Result
Low channel 2422MHz	23.05	Pass
Middle channel 2437MHz	23.04	Pass
High channel 2452MHz	23.01	Pass

802.11ax(HE20)

Frequency (MHz)	Conducted Peak Output Power(dBm)	Result
Low channel 2412MHz	23.78	Pass
Middle channel 2437MHz	23.73	Pass
High channel 2462MHz	23.66	Pass

9.3 6dB bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

≥500

Test result

802.11b

Frequency MHz	6dB bandwidth MHz	Result
Top channel 2412MHz	9.099	Pass
Middle channel 2437MHz	9.096	Pass
Bottom channel 2462MHz	9.096	Pass

802.11g

Frequency MHz	6dB bandwidth MHz	Result
Top channel 2412MHz	5.440	Pass
Middle channel 2437MHz	5.321	Pass
Bottom channel 2462MHz	5.127	Pass

802.11n(HT20)

Frequency MHz	6dB bandwidth MHz	Result
Top channel 2412MHz	5.129	Pass
Middle channel 2437MHz	5.129	Pass
Bottom channel 2462MHz	5.803	Pass

802.11n(HT40)

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2422MHz	8.856	Pass
Middle channel 2437MHz	10.070	Pass
High channel 2452MHz	10.091	Pass

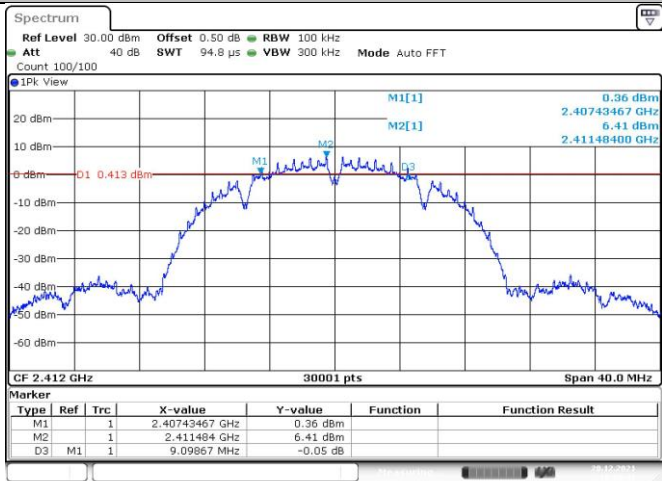
802.11ax(HE20)

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	6.115	Pass
Middle channel 2437MHz	5.127	Pass
High channel 2462MHz	5.627	Pass



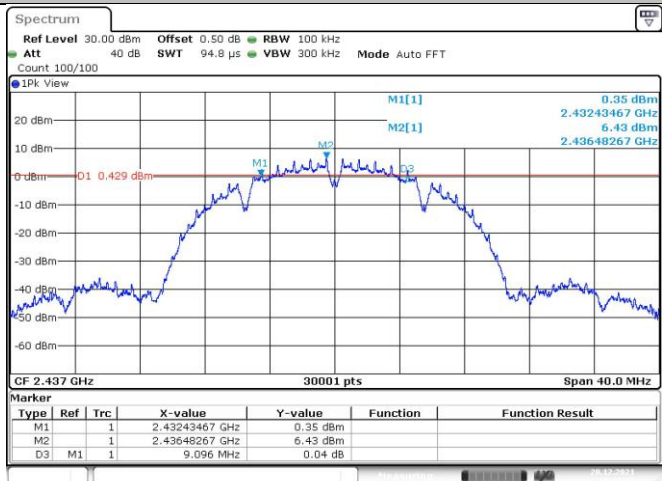
6 dB Bandwidth

802.11b
2412



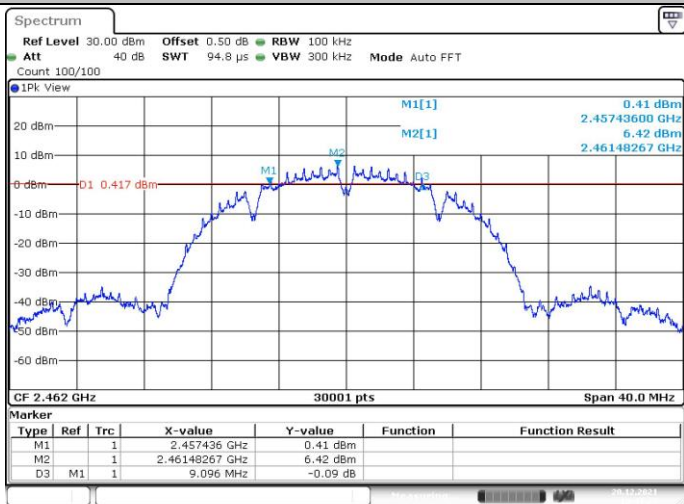
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2437



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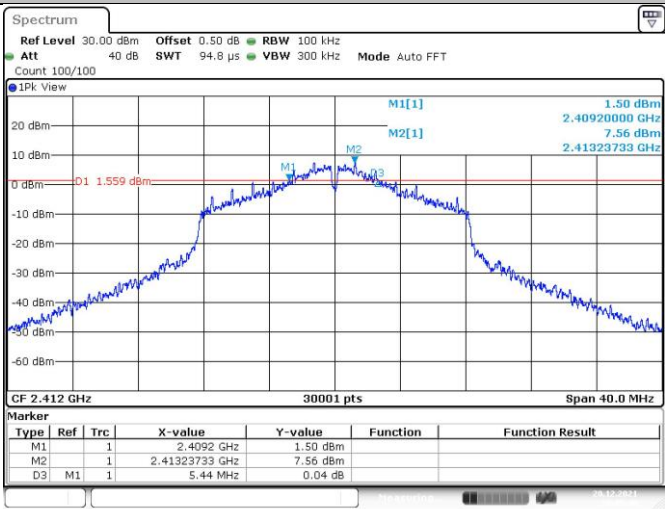
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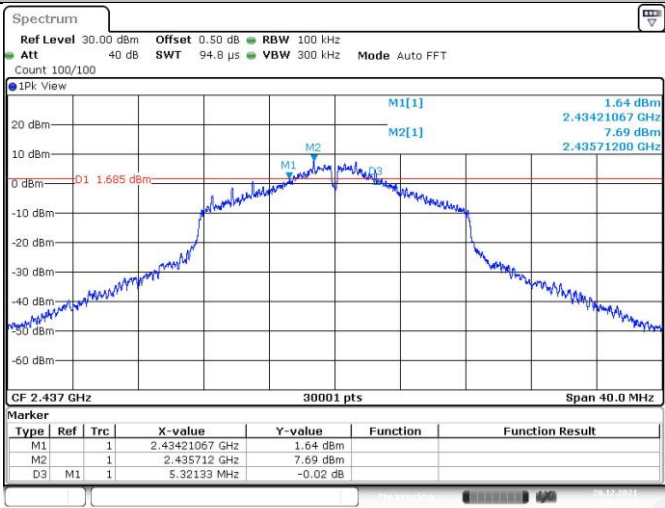


802.11g
2412



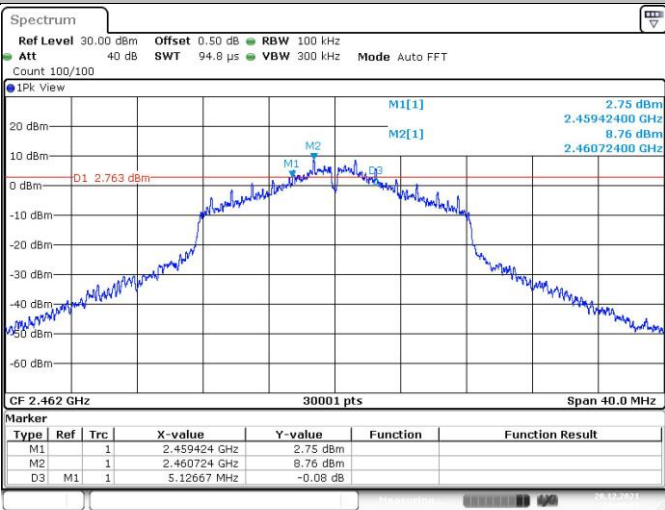
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2437



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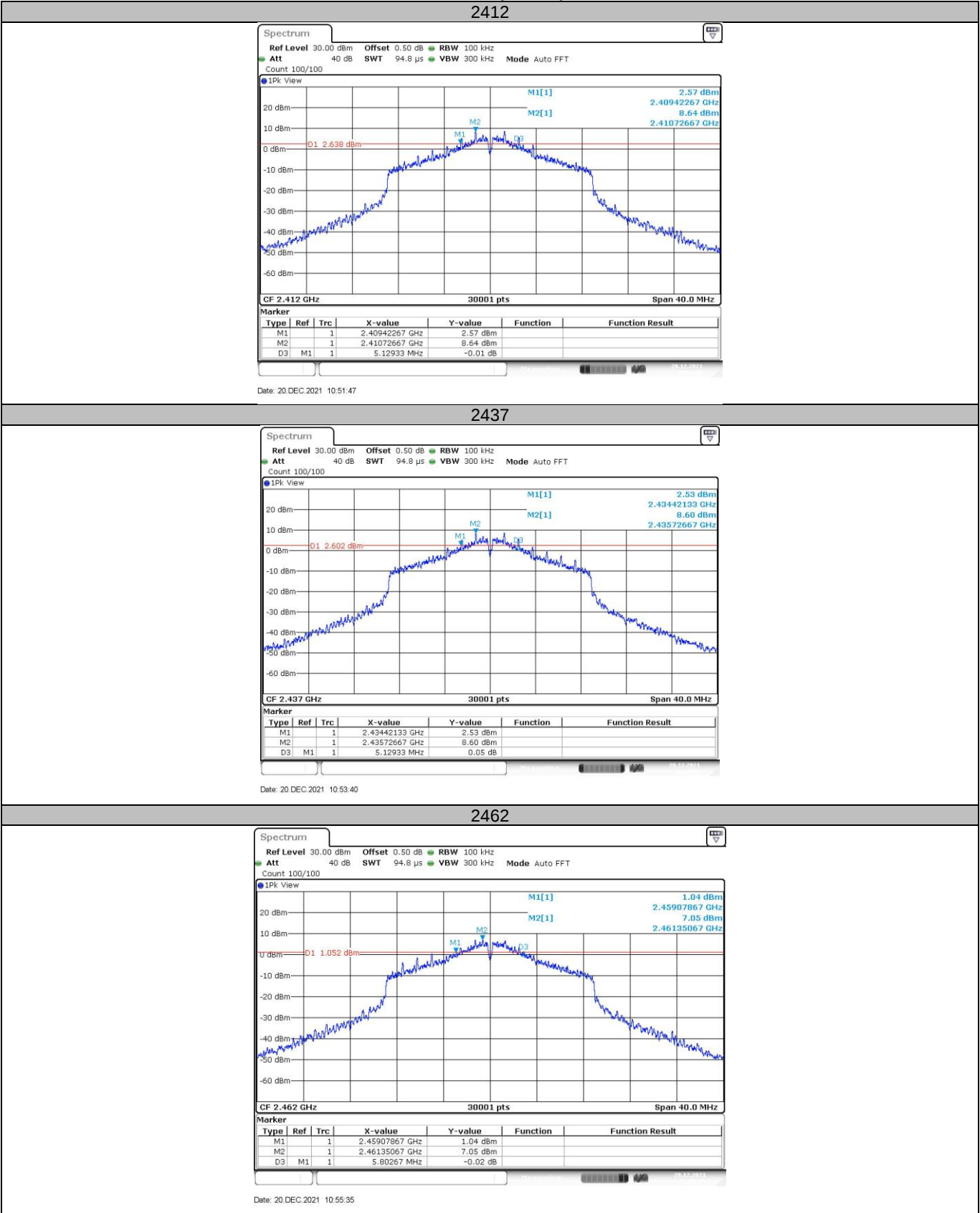
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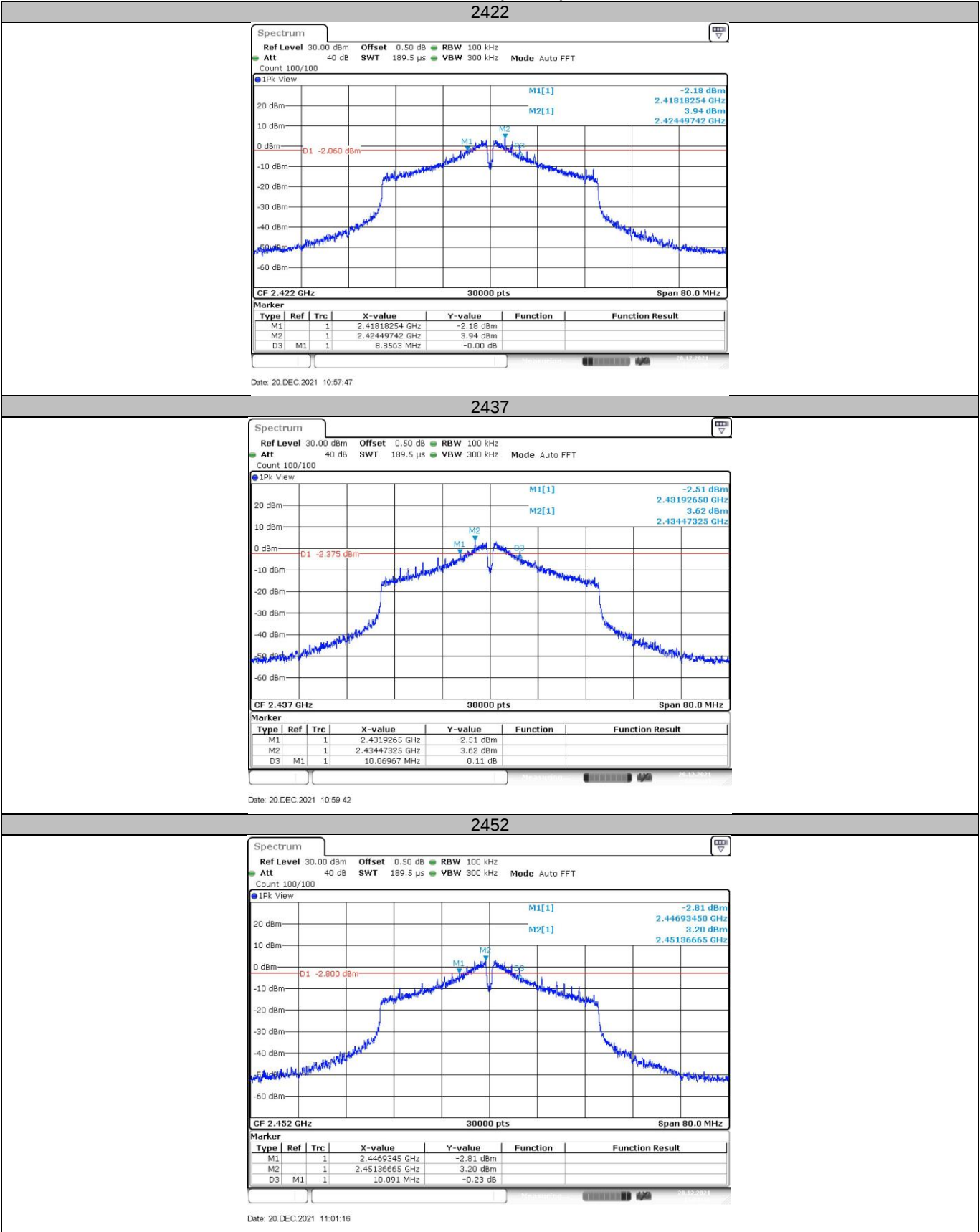


802.11n(HT20)



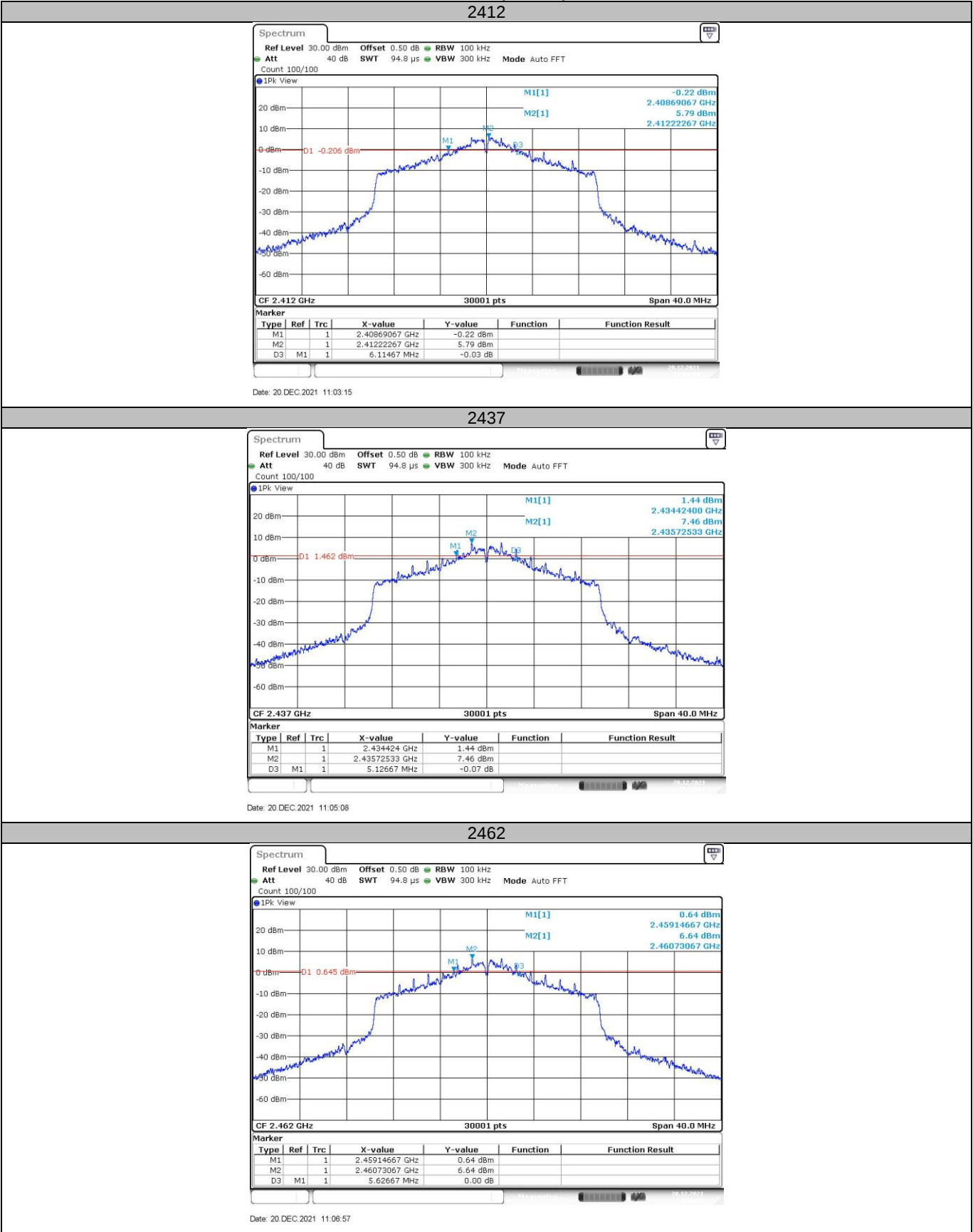


802.11n(HT40)





802.11ax(HE20)



9.4 Power spectral density

Test Method

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

1. Set analyzer center frequency to DTS channel center frequency.
RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]

≤8

Test result

802.11b

Frequency (MHz)	Power spectral density(dBm/3KHz)	Result
Low channel 2412MHz	-9.63	Pass
Middle channel 2437MHz	-9.48	Pass
High channel 2462MHz	-9.51	Pass

802.11g

Frequency (MHz)	Power spectral density(dBm/3KHz)	Result
Low channel 2412MHz	-5.26	Pass
Middle channel 2437MHz	-5.31	Pass
High channel 2462MHz	-5.25	Pass

802.11 n(HT20)

Frequency (MHz)	Power spectral density(dBm/3KHz)	Result
Low channel 2412MHz	-3.77	Pass
Middle channel 2437MHz	-5.27	Pass
High channel 2462MHz	-4.60	Pass

802.11 n(HT40)

Frequency (MHz)	Power spectral density(dBm/3KHz)	Result
Low channel 2422MHz	-7.83	Pass
Middle channel 2437MHz	-9.87	Pass
High channel 2452MHz	-10.11	Pass

802.11 ax(HE20)

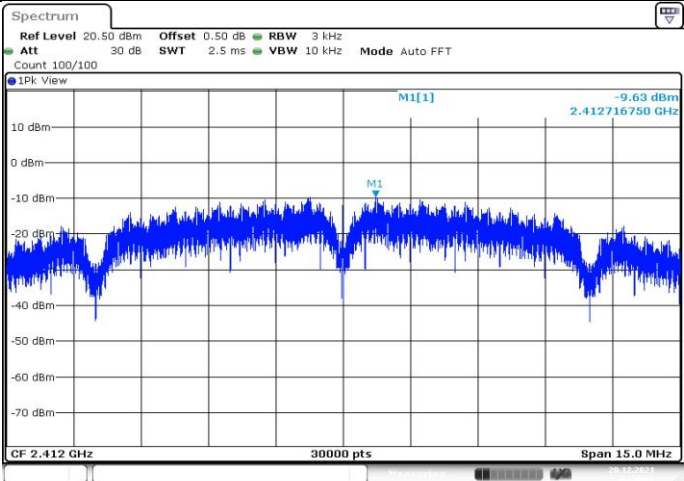
Frequency (MHz)	Power spectral density(dBm/3KHz)	Result
Low channel 2412MHz	-7.98	Pass
Middle channel 2437MHz	-6.64	Pass
High channel 2462MHz	-7.36	Pass



Power spectral density

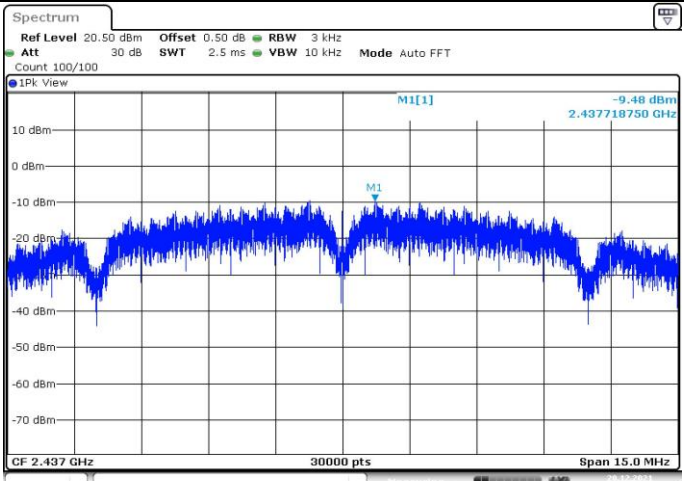
802.11b

2412



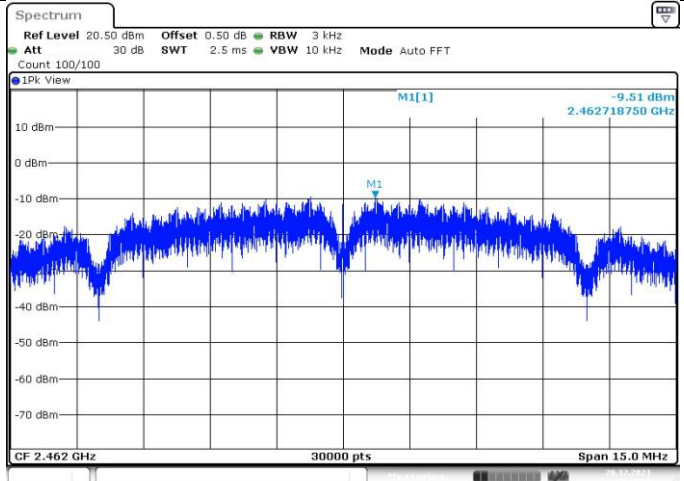
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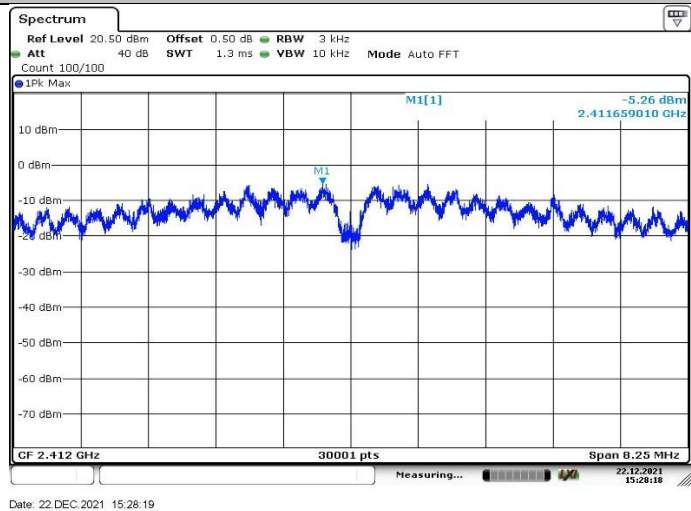
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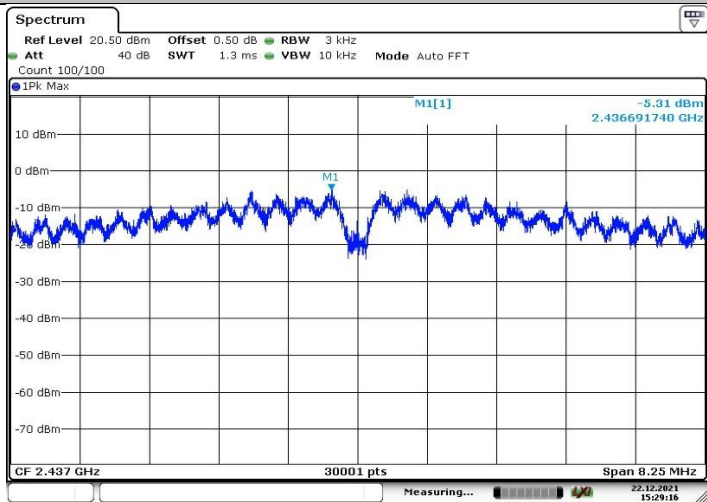


802.11g
2412



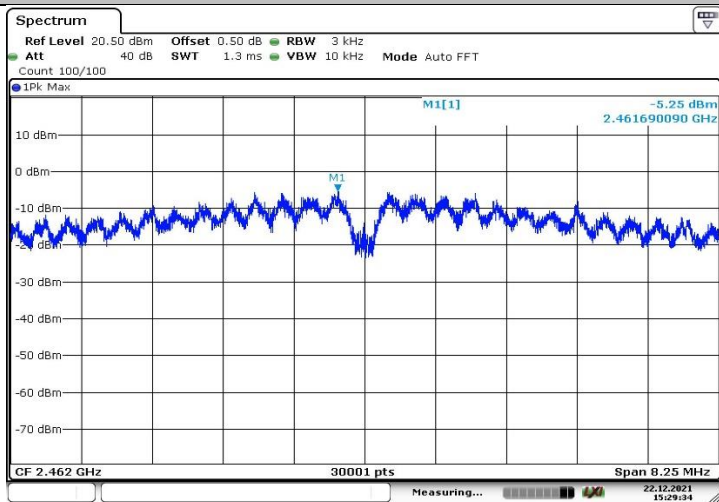
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2437



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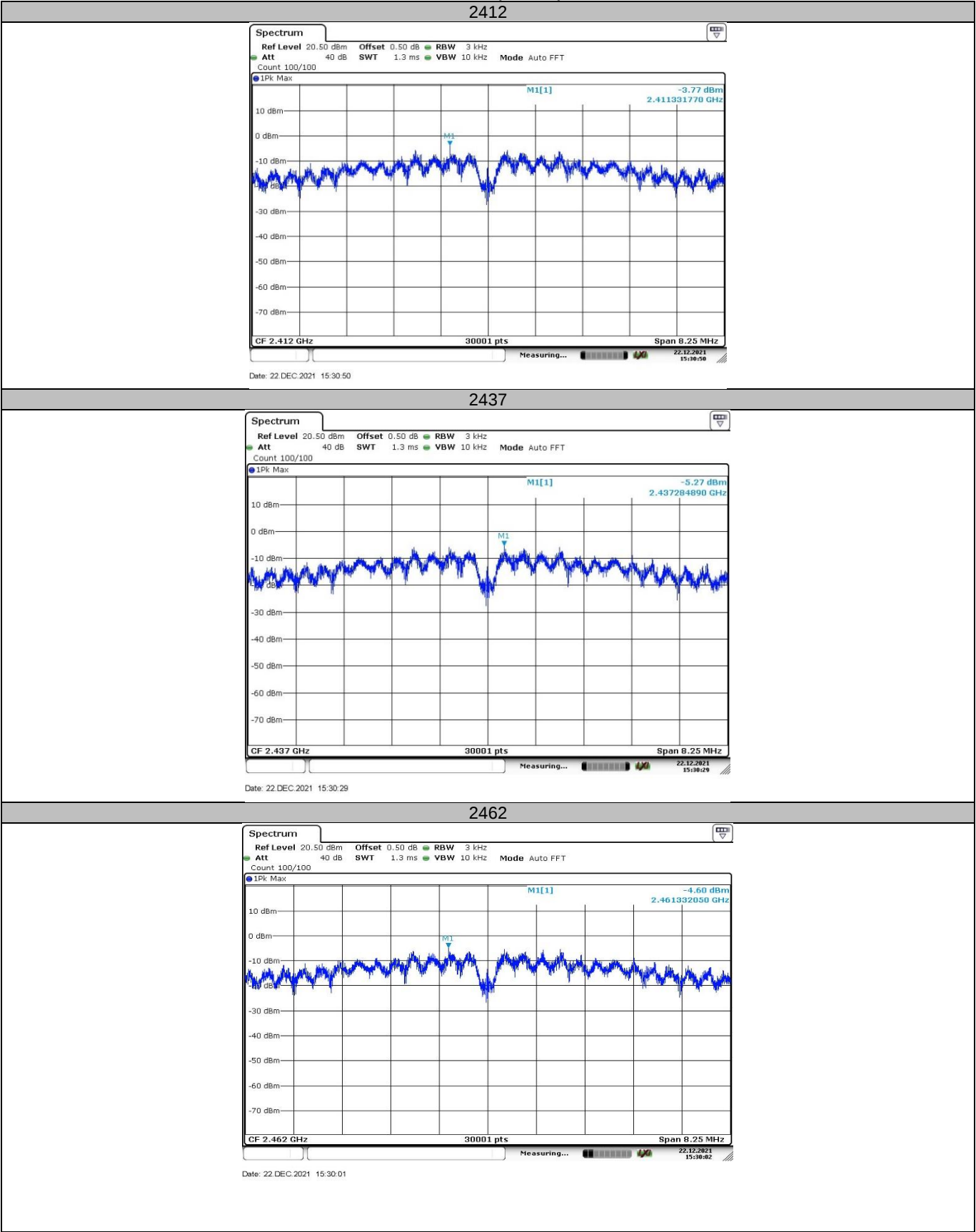
2462



Date: 22.DEC.2021 15:29:34

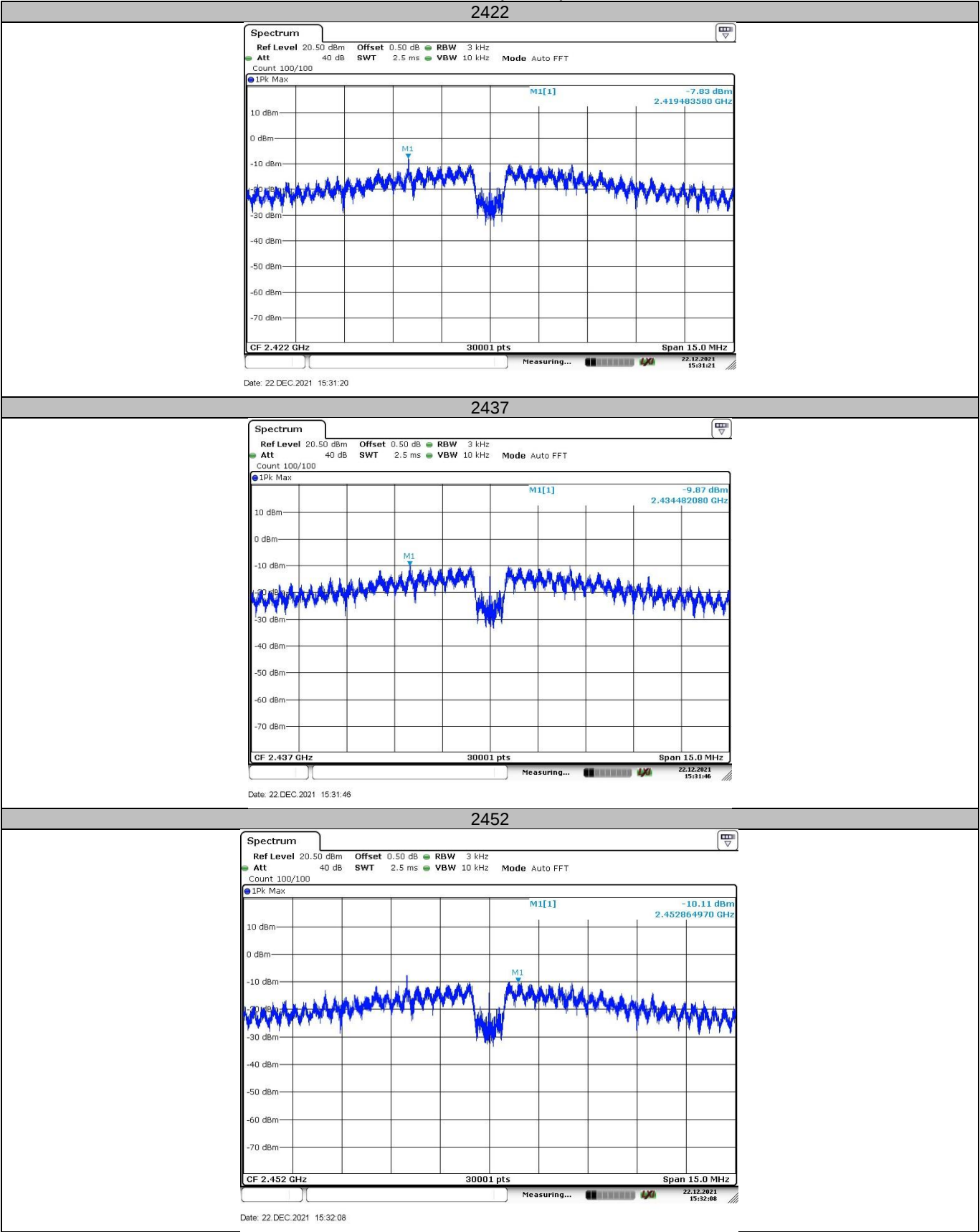


802.11n(HT20)



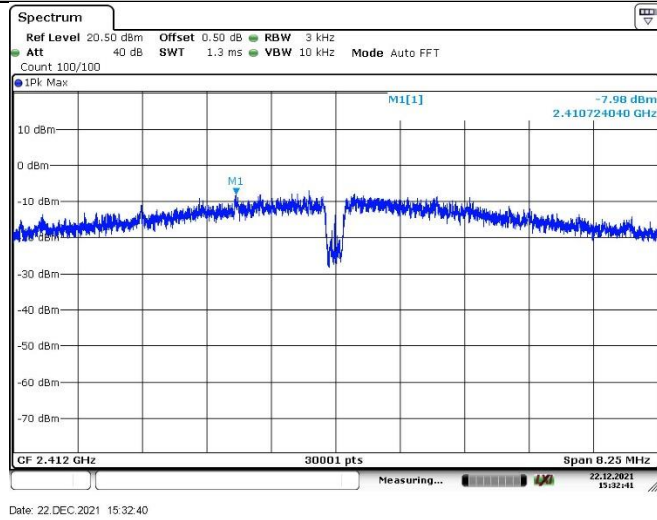


802.11n(HT40)

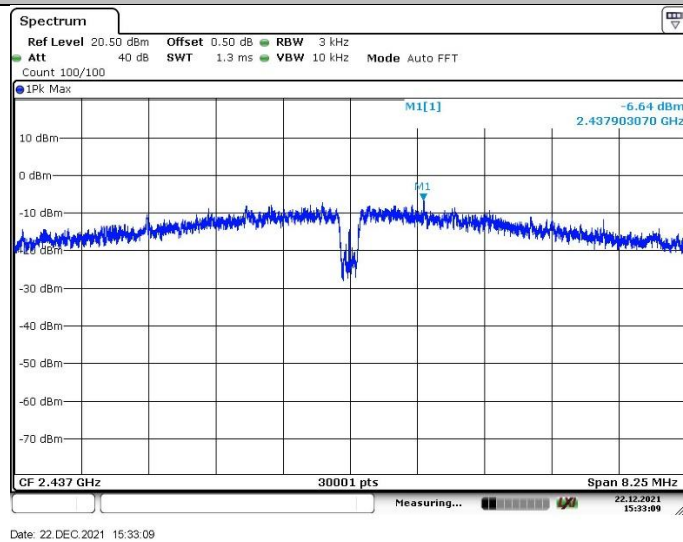


802.11ax(HE20)

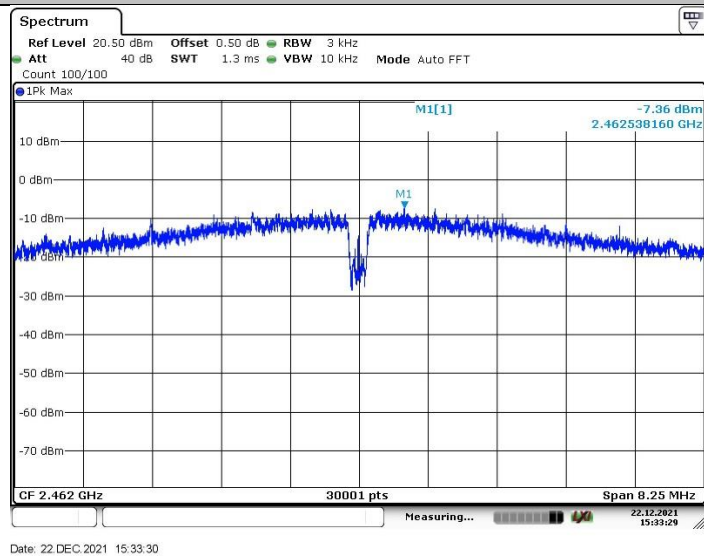
2412



2437



2462



9.5 Spurious RF conducted emissions

Test Method

1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW $\geq$ 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

Limit

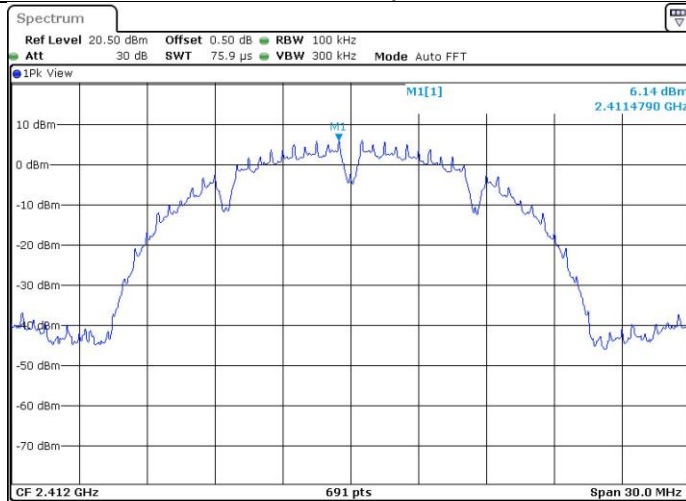
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

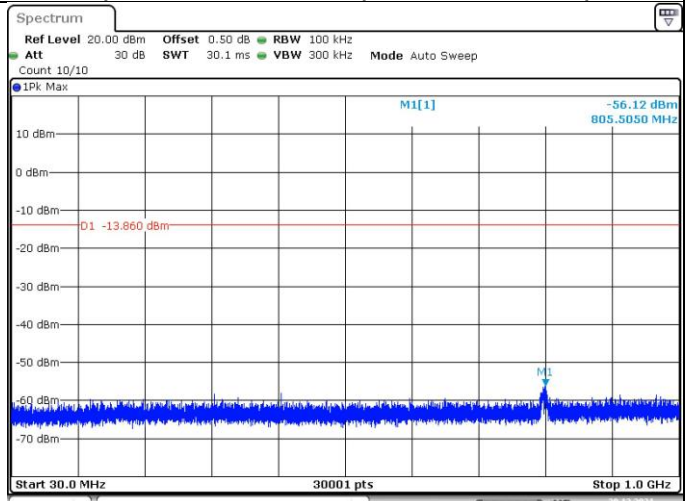
802.11b

Out-of-Band Emissions

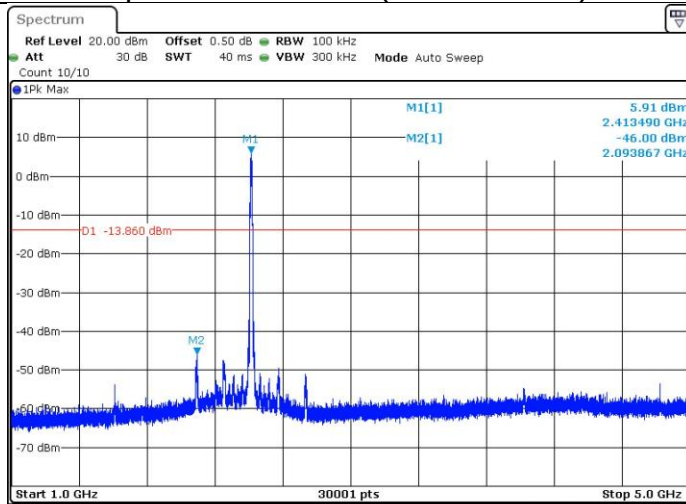
Channel 1 (2412MHz)

Reference point

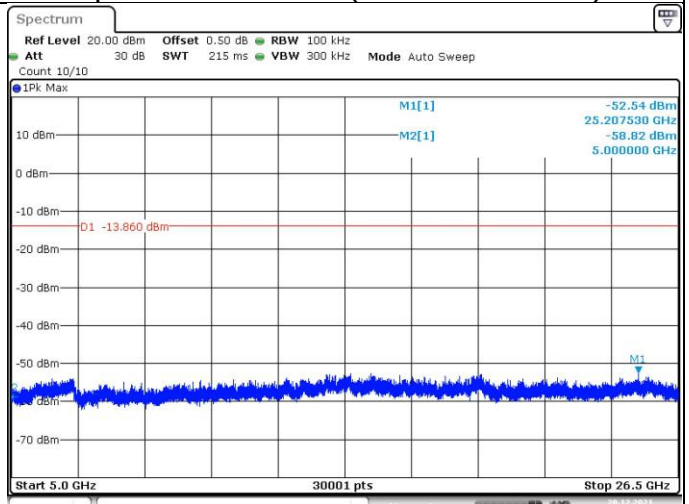
Date: 20 DEC 2021 10:40:16

Spurious Emission (30MHz – 1GHz)

Date: 20 DEC 2021 10:40:21

Spurious Emission (1GHz – 5GHz)

Date: 20 DEC 2021 10:40:33

Spurious Emission (5GHz – 26.5GHz)

Date: 20 DEC 2021 10:41:04

Out-of-Band Emissions

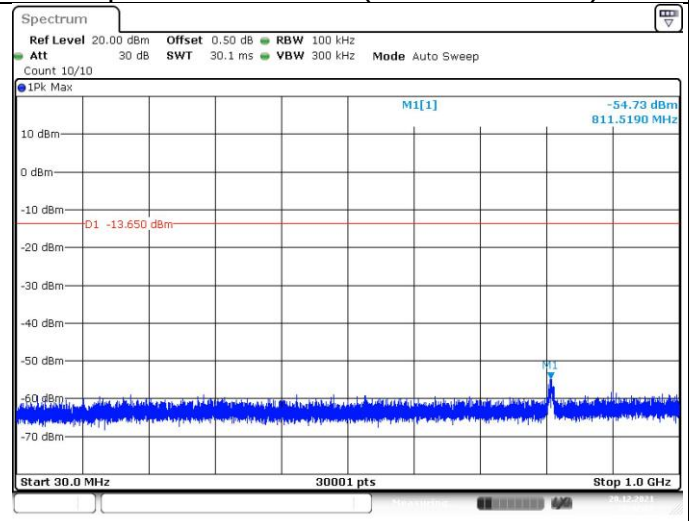
Channel 6 (2437MHz)

Reference point

Spurious Emission (30MHz – 1GHz)



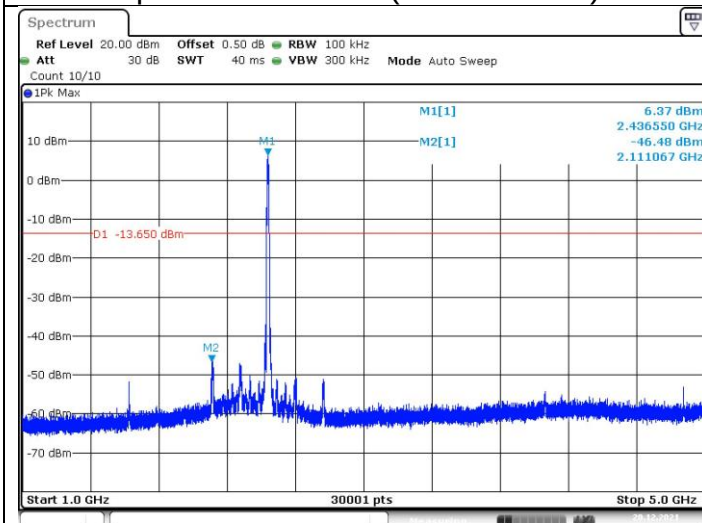
Date: 20 DEC 2021 10:42:22



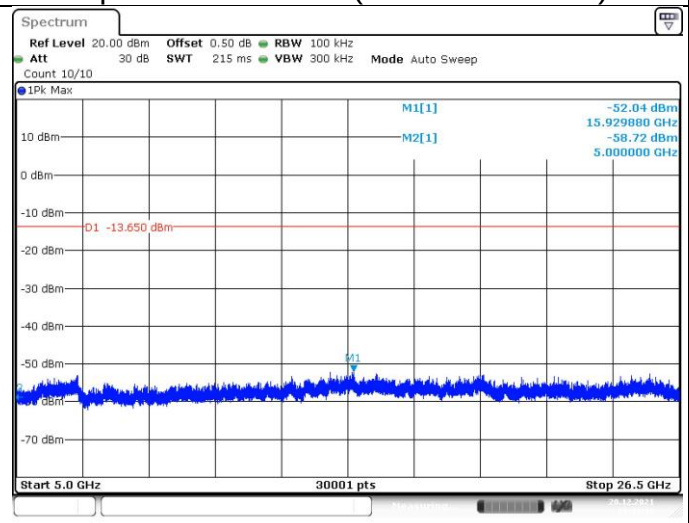
Date: 20 DEC 2021 10:42:26

Spurious Emission (1GHz –5GHz)

Spurious Emission (5GHz –26.5GHz)



Date: 20 DEC 2021 10:42:38



Date: 20 DEC 2021 10:43:10

Out-of-Band Emissions

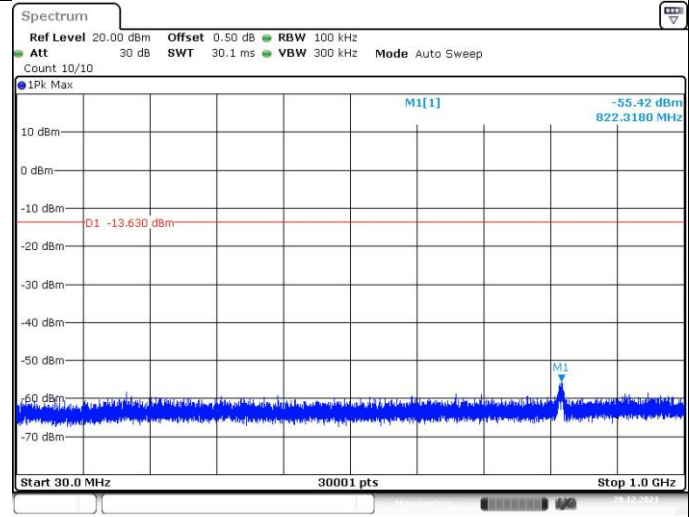
Channel 11 (2462MHz)

Reference point



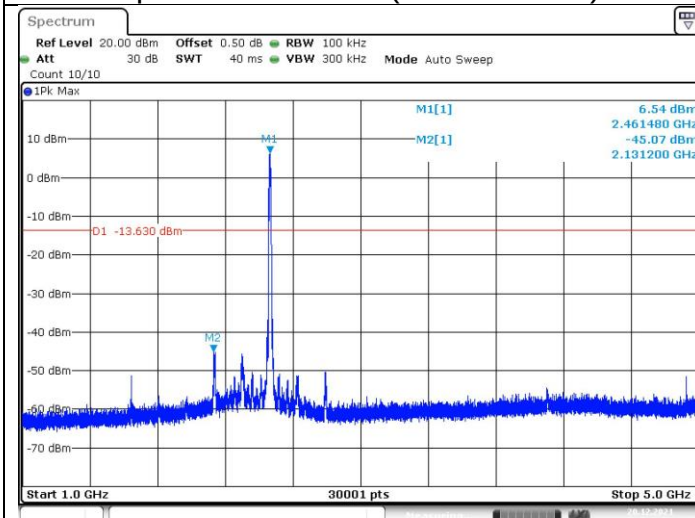
Date: 20 DEC 2021 10:44:09

Spurious Emission (30MHz – 1GHz)



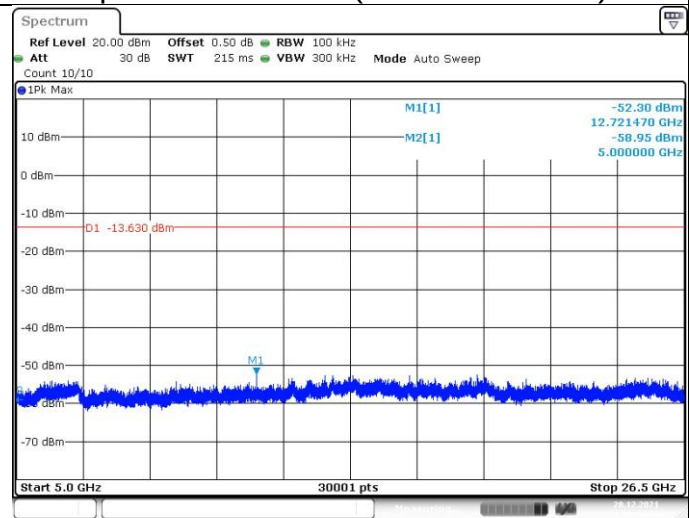
Date: 20 DEC 2021 10:44:13

Spurious Emission (1GHz –5GHz)



Date: 20 DEC 2021 10:44:25

Spurious Emission (5GHz –26.5GHz)



Date: 20 DEC 2021 10:44:57

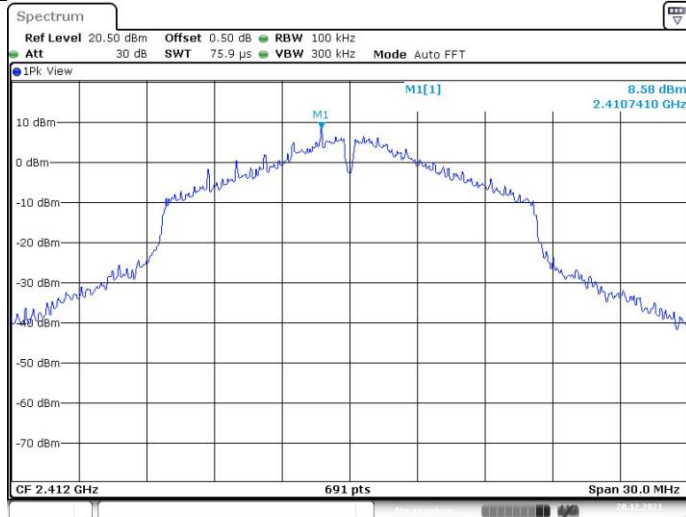
802.11g

Out-of-Band Emissions

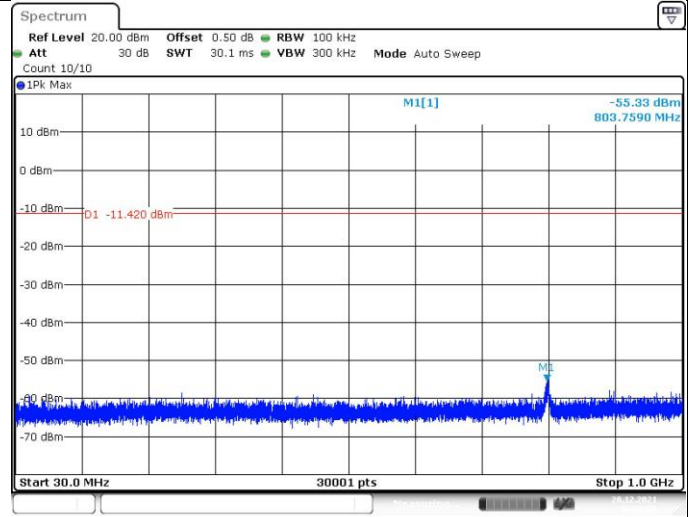
Channel 1 (2412MHz)

Reference point

Spurious Emission (30MHz – 1GHz)



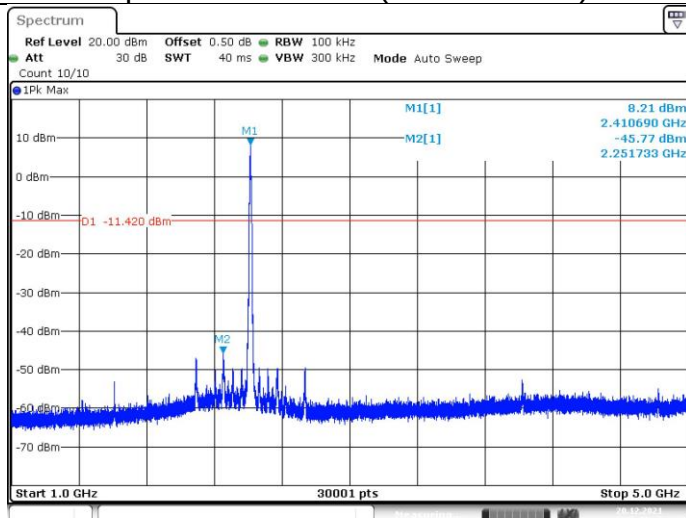
Date: 20 DEC 2021 10:46:23



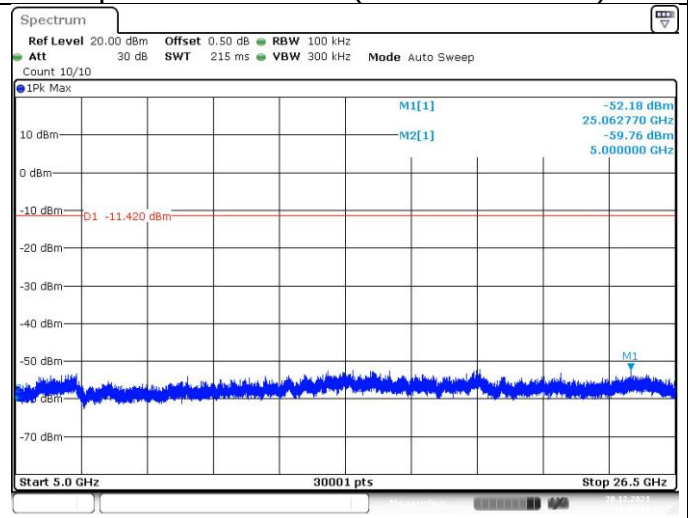
Date: 20 DEC 2021 10:46:28

Spurious Emission (1GHz – 5GHz)

Spurious Emission (5GHz – 26.5GHz)



Date: 20 DEC 2021 10:46:40



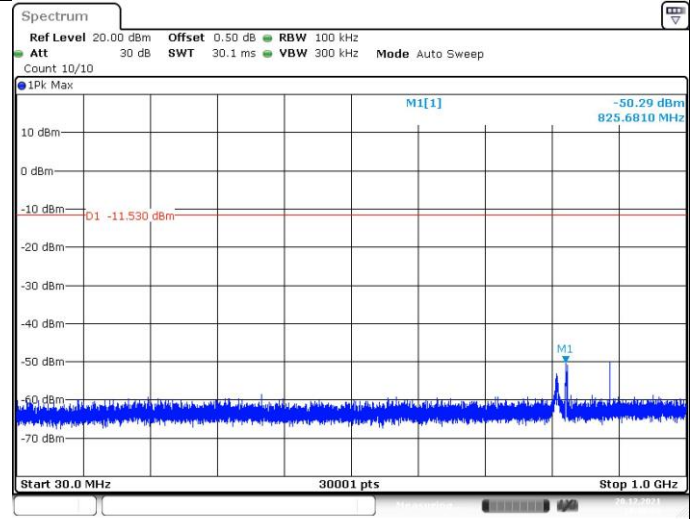
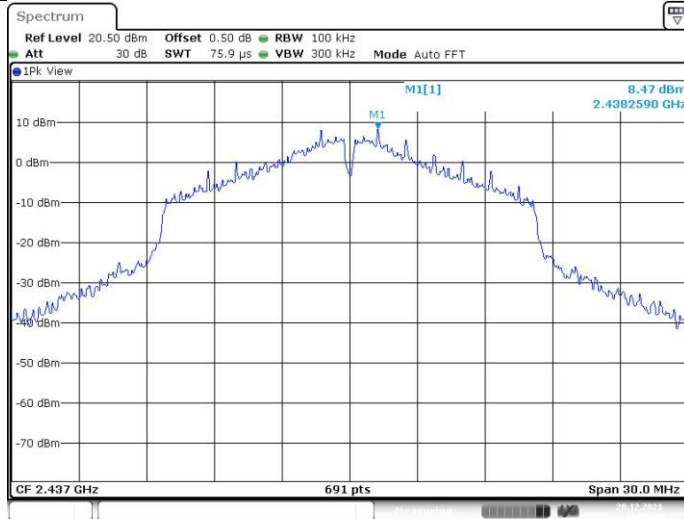
Date: 20 DEC 2021 10:47:11

Out-of-Band Emissions

Channel 6 (2437MHz)

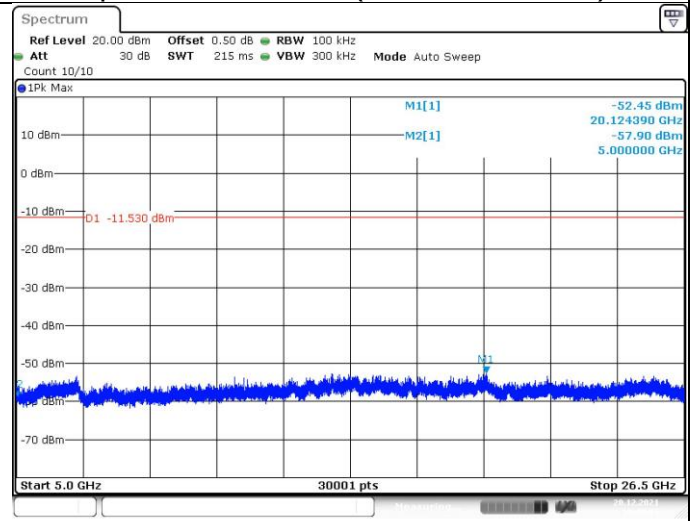
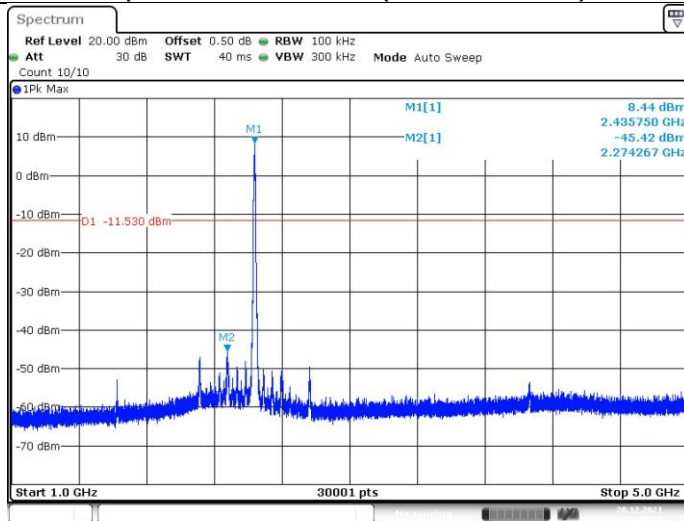
Reference point

Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)

Spurious Emission (5GHz –26.5GHz)

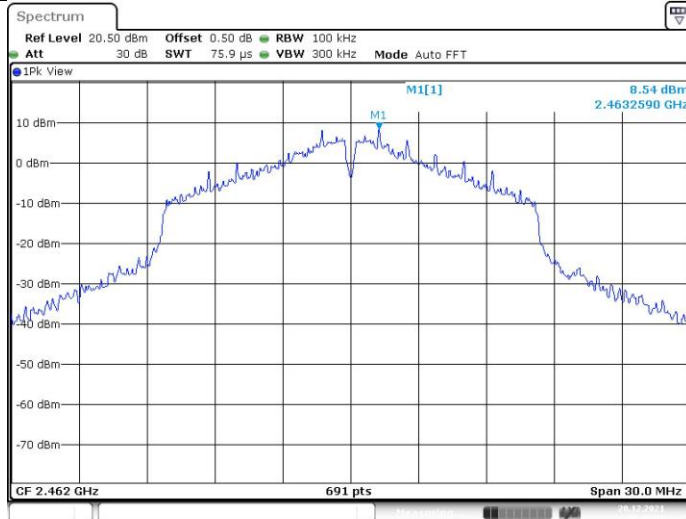


Out-of-Band Emissions

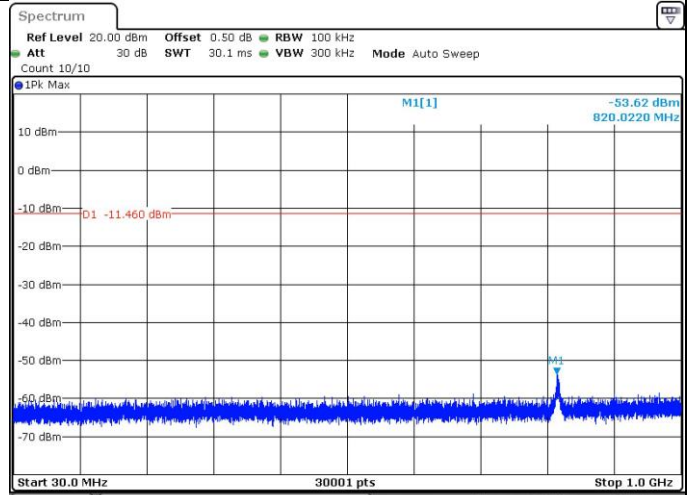
Channel 11 (2462MHz)

Reference point

Spurious Emission (30MHz – 1GHz)



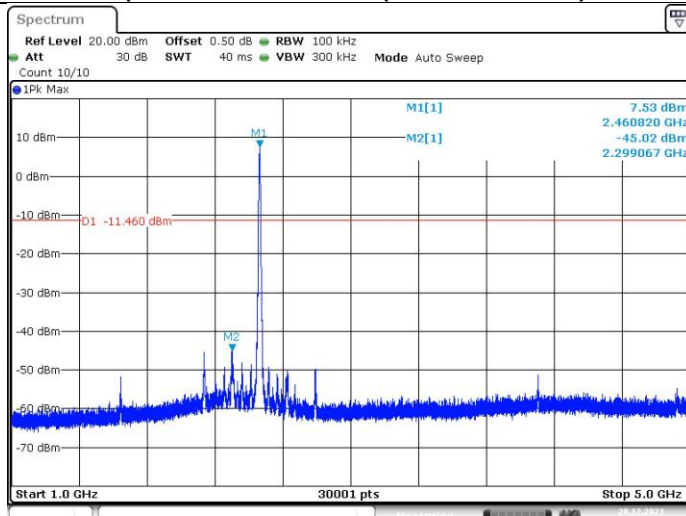
Date: 20.DEC.2021 10:49:53



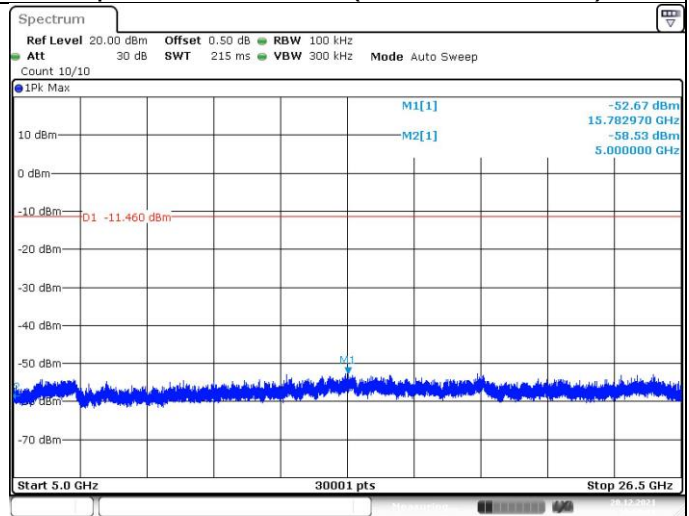
Date: 20.DEC.2021 10:49:57

Spurious Emission (1GHz –5GHz)

Spurious Emission (5GHz –26.5GHz)



Date: 20.DEC.2021 10:50:09



Date: 20.DEC.2021 10:50:41

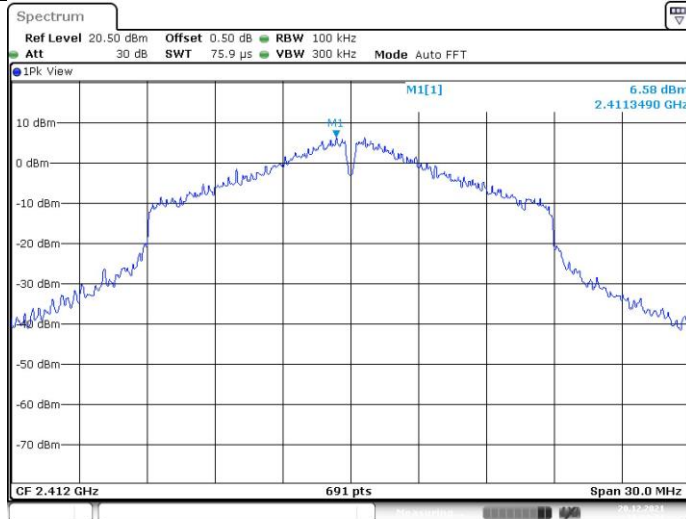
802.11n(HT20)

Out-of-Band Emissions

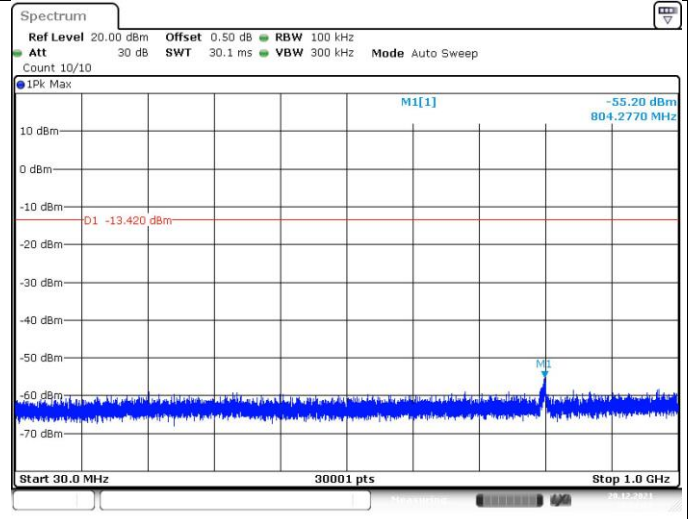
Channel 1 (2412MHz)

Reference point

Spurious Emission (30MHz – 1GHz)



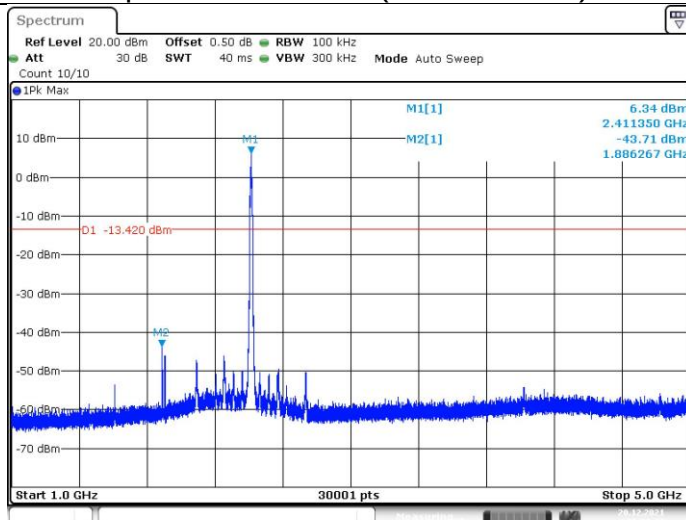
Date: 20 DEC 2021 10:52:22



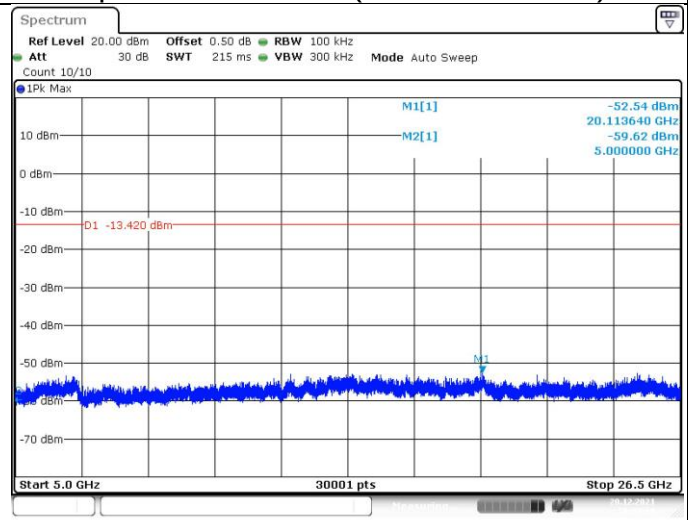
Date: 20 DEC 2021 10:52:26

Spurious Emission (1GHz – 5GHz)

Spurious Emission (5GHz – 26.5GHz)



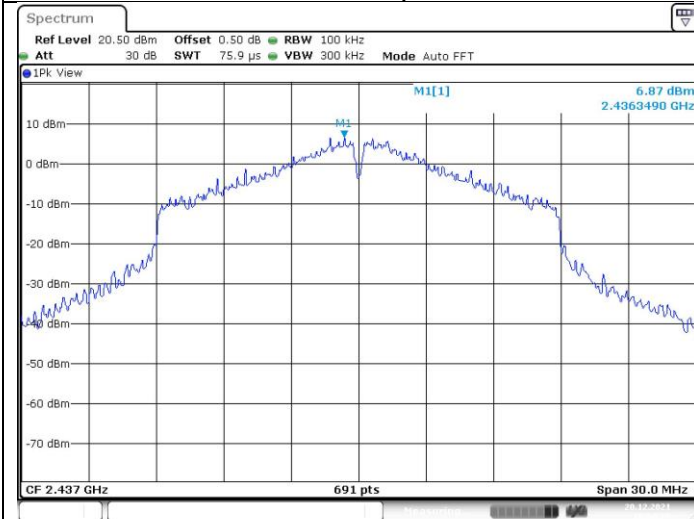
Date: 20 DEC 2021 10:52:38



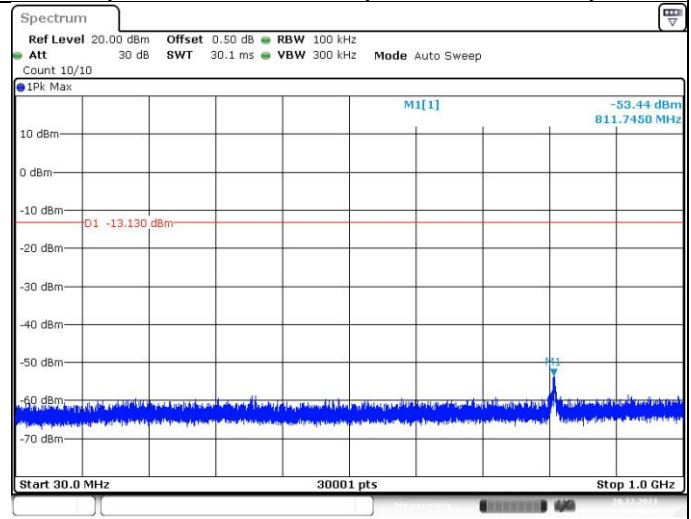
Date: 20 DEC 2021 10:53:10

Out-of-Band Emissions
Channel 6 (2437MHz)

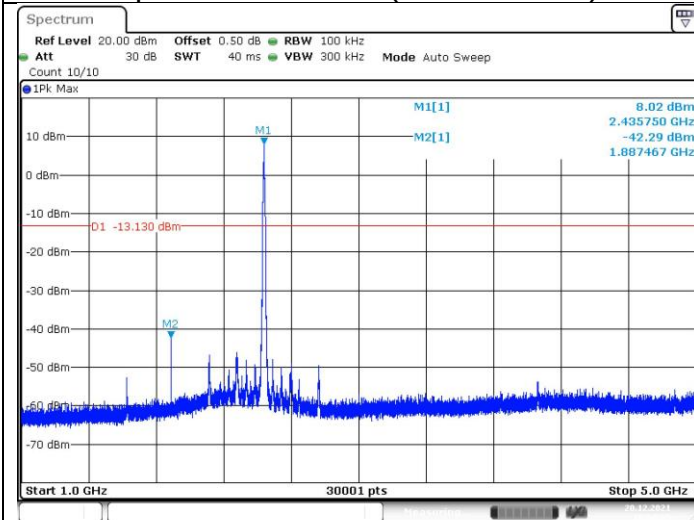
Reference point



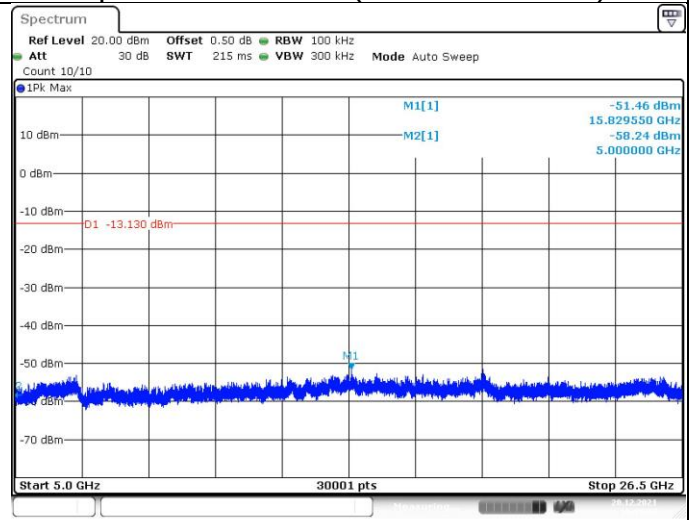
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz – 5GHz)



Spurious Emission (5GHz – 26.5GHz)

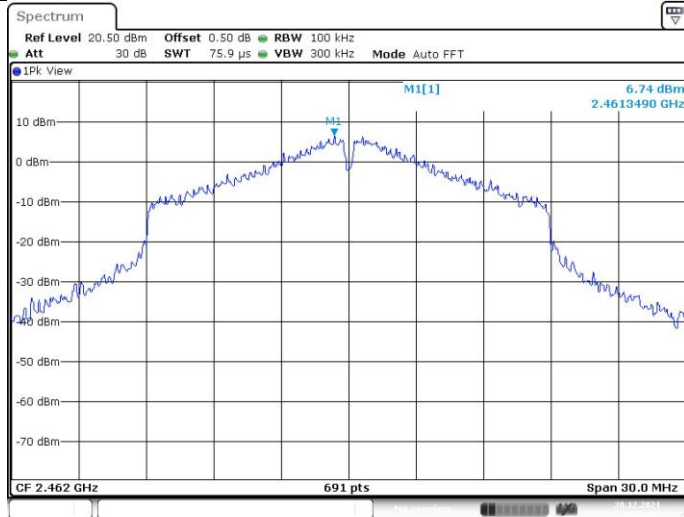


Out-of-Band Emissions

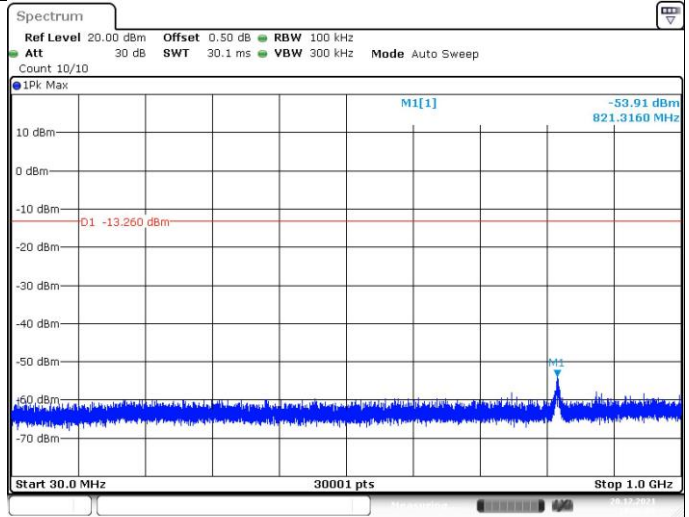
Channel 11 (2462MHz)

Reference point

Spurious Emission (30MHz – 1GHz)



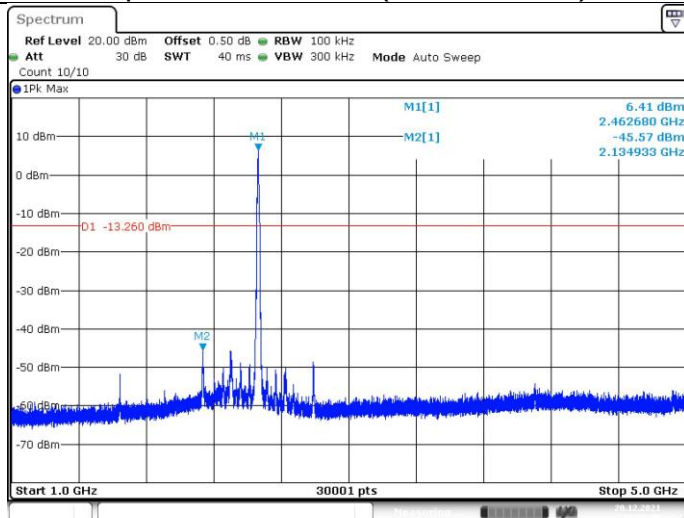
Date: 20 DEC 2021 10:56:23



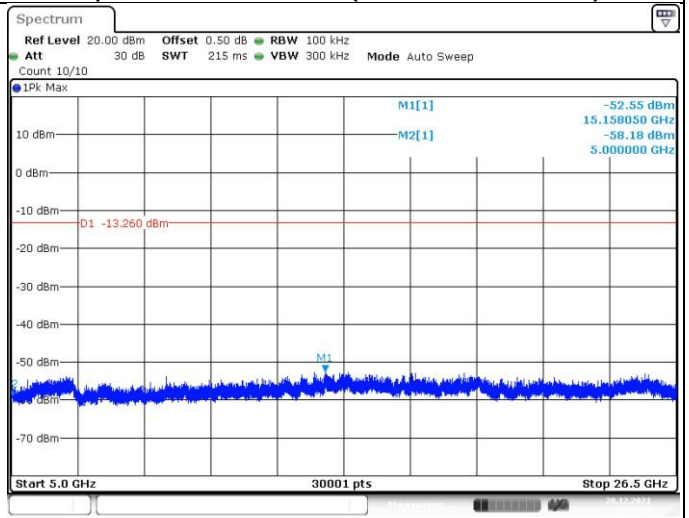
Date: 20 DEC 2021 10:56:28

Spurious Emission (1GHz – 5GHz)

Spurious Emission (5GHz – 26.5GHz)



Date: 20 DEC 2021 10:56:40



Date: 20 DEC 2021 10:57:11

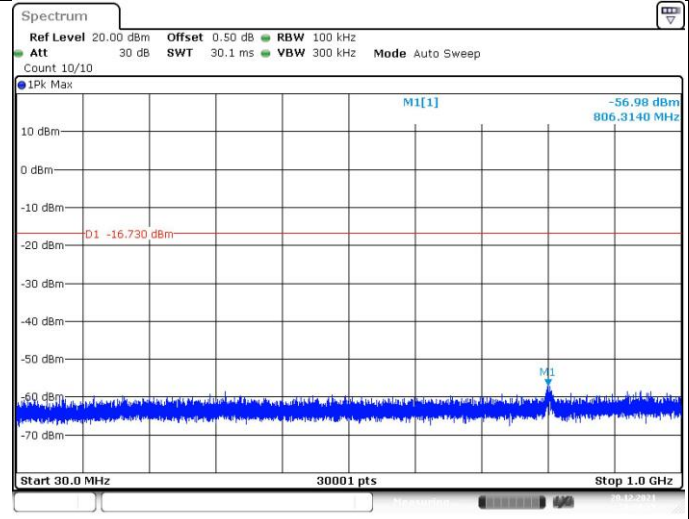
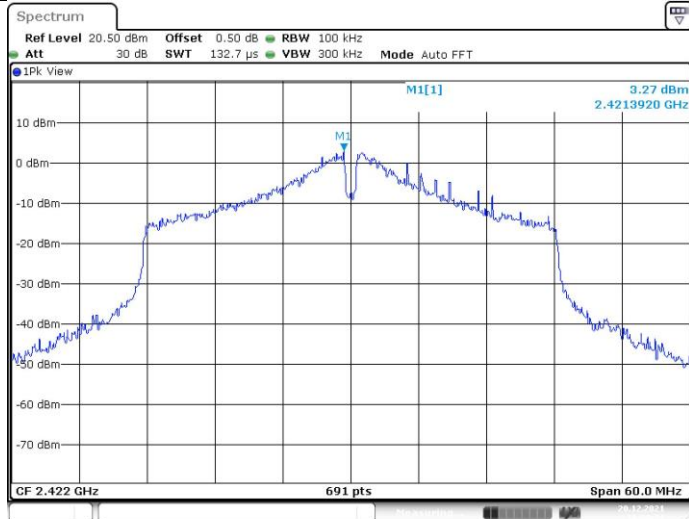
802.11n(HT40)

Out-of-Band Emissions

Channel 3 (2422MHz)

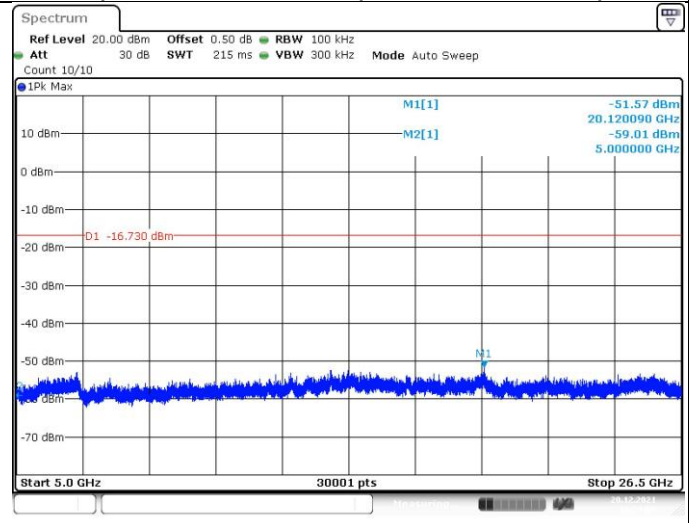
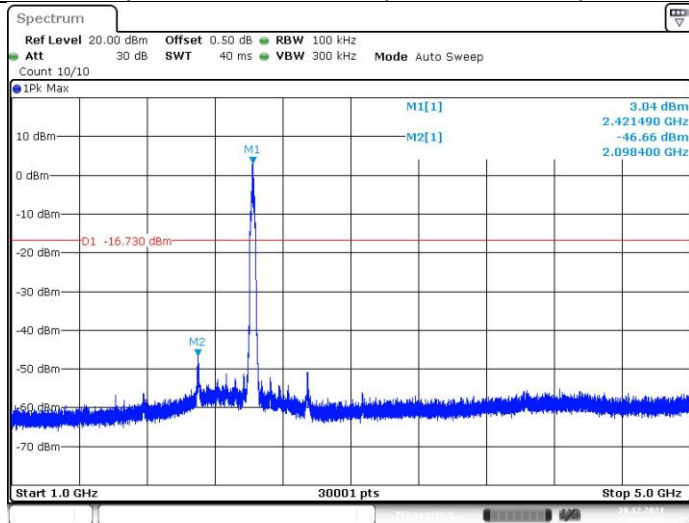
Reference point

Spurious Emission (30MHz – 1GHz)



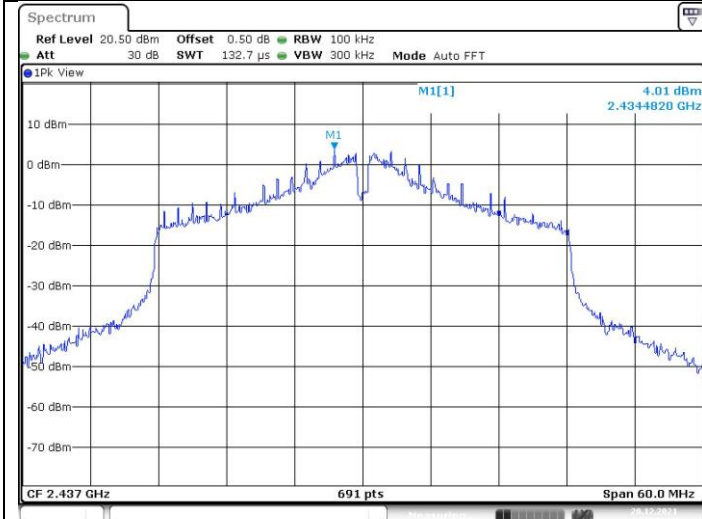
Spurious Emission (1GHz – 5GHz)

Spurious Emission (5GHz – 26.5GHz)



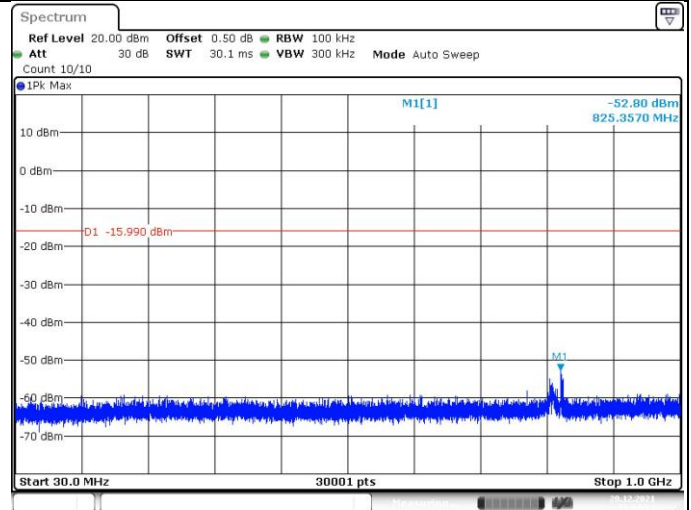
Out-of-Band Emissions Channel 6 (2437MHz)

Reference point



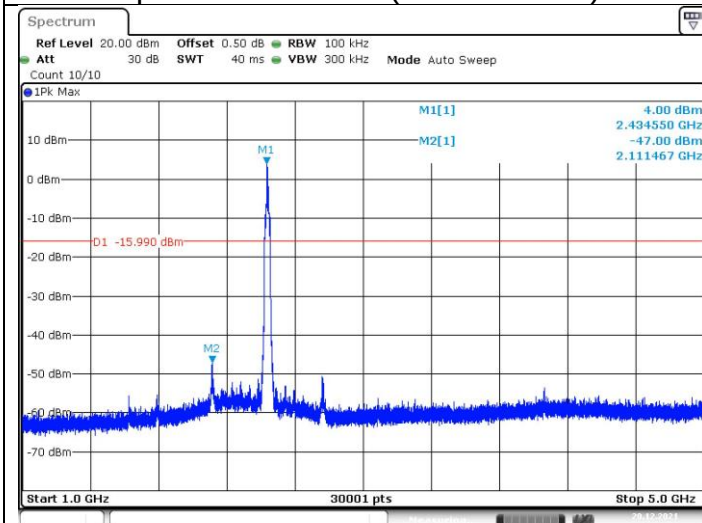
Date: 20 DEC 2021 11:00:07

Spurious Emission (30MHz – 1GHz)



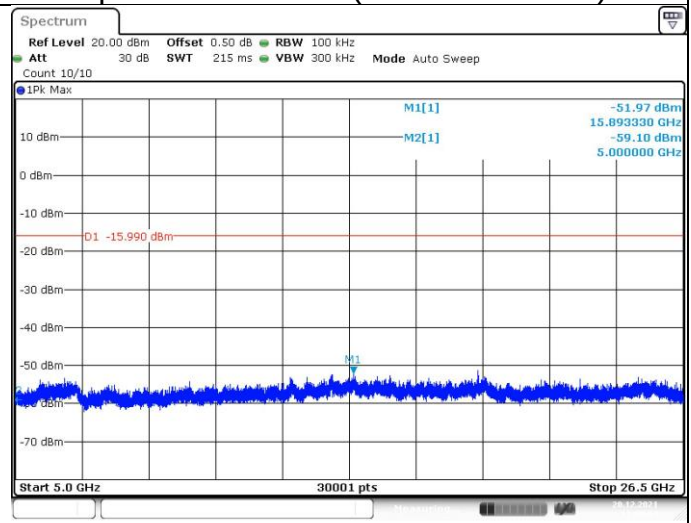
Date: 20 DEC 2021 11:00:11

Spurious Emission (1GHz – 5GHz)



Date: 20 DEC 2021 11:00:23

Spurious Emission (5GHz – 26.5GHz)



Date: 20 DEC 2021 11:00:55