



Report No.: TWN2601525-03E

Applicant: Nanjing Magewell Electronics CO., Ltd.

Product: Mobile Video Switching Box

Model No.: PR0529A, PR0532A, PR0531A, PR0533A

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang



Terry Tang

Manager

Dated: March 12, 2026

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

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Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

FCC Designation Number: CN1251

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number: 744189
For 3m Anechoic Chamber
Site Listed with ISED of Ottawa, Canada
Registration Number: IC: 5205A-02
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Nanjing Magewell Electronics CO., Ltd.
Address: No. 68-66 Suyuan Avenue, Jiangning Economic and Technological Development Zone, Nanjing, Jiangsu Province, China 211100

1.3 Description of EUT

Product: Mobile Video Switching Box
Manufacturer: Nanjing Magewell Electronics CO., Ltd.
Address: No. 68-66 Suyuan Avenue, Jiangning Economic and Technological Development Zone, Nanjing, Jiangsu Province, China 211100
Brand Name: N/A
Model Number: PR0529A
Additional Model Number: PR0532A, PR0531A, PR0533A
Serial No.: A123456789012
Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)
IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ax (HEW20): OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Frequency range IEEE 802.11b/g/n (HT20)/ax (HEW20): 2412-2462MHz;
Channel Spacing 5MHz for IEEE 802.11b/g/n (HT20)/ax (HEW20)
Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps
IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n HT20: mcs0-mcs7
IEEE 802.11ax HEW20: mcs0-mcs11
Frequency Selection By software

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Channel Number IEEE 802.11b/g/n (HT20)/ax (HEW20): 11 Channels;
Antenna: Two Dipole antenna with reverse polarity antenna connector. The gain of the antennas is 7.40dBi for both Main Antenna (J7) and Aux Antenna (J9) in the 2.4G Band (Get from the antenna specification provided the manufacturer)
Rating: Input: DC12V, 5A
Power Supply: Model: ICP65C-120-5000
Input: 100-240V~, 50/60Hz, 1.5A; Output: DC12.0V, 5.0A, 60.0W

1.4 Submitted Sample: 3 Samples

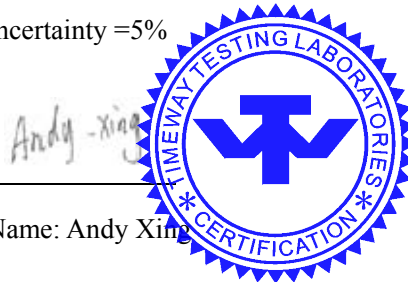
1.5 Test Duration
2026-01-22 to 2026-03-12

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20), 802.11ax (HEW20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 (worst case) were chosen for full testing; IEEE 802.11ax (HEW20) mode: mcs0 (worst case) were chosen for full testing

Note: During the test, the duty cycle was set up to >98%

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of an Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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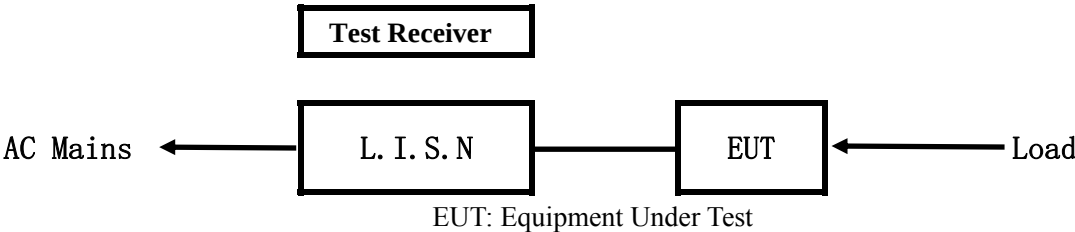
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

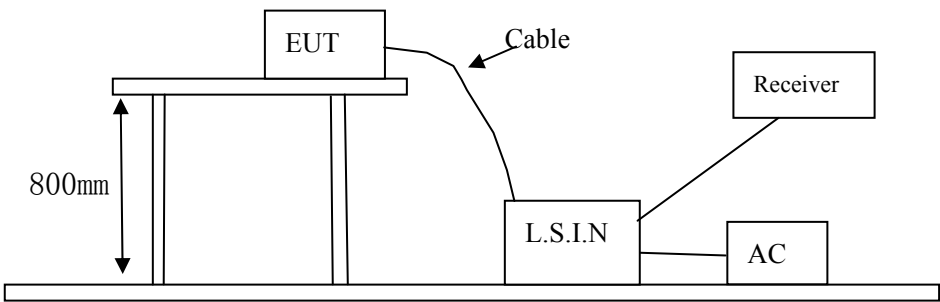


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Mobile Video Switching Box	Nanjing Magewell Electronics CO., Ltd.	PR0529A, PR0532A, PR0531A, PR0533A	2AP6W-DIRECTOR5529 0

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
PC	ThinkPad	R4	Input: DC19.5V, 2.31A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes:

1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

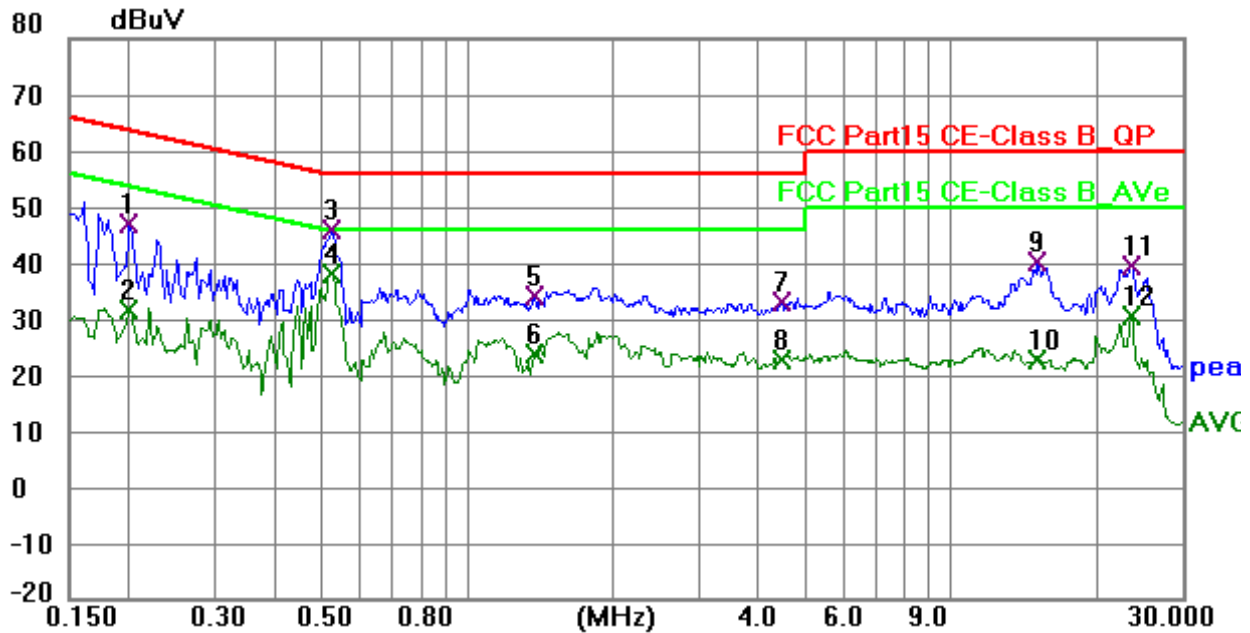
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	36.82	10.12	46.94	63.58	-16.64	QP	P
2	0.2007	21.62	10.12	31.74	53.58	-21.84	AVG	P
3	0.5243	35.42	10.38	45.80	56.00	-10.20	QP	P
4	0.5243	27.61	10.38	37.99	46.00	-8.01	AVG	P
5	1.3707	23.62	10.32	33.94	56.00	-22.06	QP	P
6	1.3707	13.44	10.32	23.76	46.00	-22.24	AVG	P
7	4.4508	22.90	10.26	33.16	56.00	-22.84	QP	P
8	4.4508	12.58	10.26	22.84	46.00	-23.16	AVG	P
9	15.1290	29.59	10.43	40.02	60.00	-19.98	QP	P
10	15.1290	12.14	10.43	22.57	50.00	-27.43	AVG	P
11	23.5958	28.95	10.45	39.40	60.00	-20.60	QP	P
12	23.5958	20.13	10.45	30.58	50.00	-19.42	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

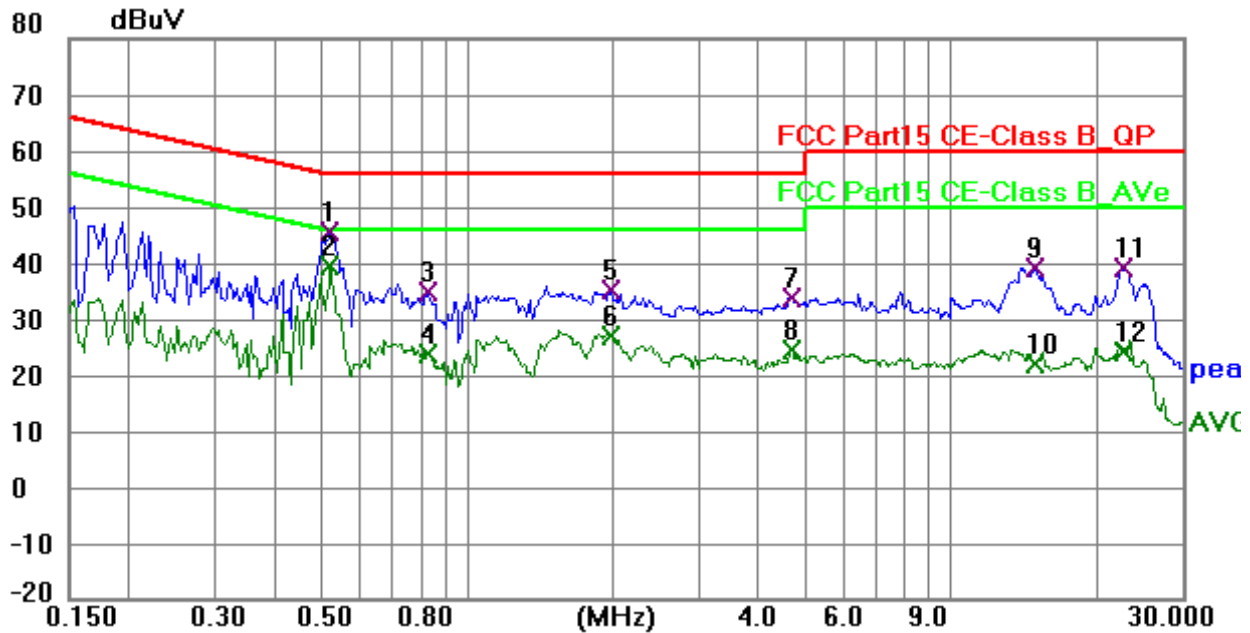
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5205	35.02	10.38	45.40	56.00	-10.60	QP	P
2	0.5205	29.00	10.38	39.38	46.00	-6.62	AVG	P
3	0.8286	24.27	10.39	34.66	56.00	-21.34	QP	P
4	0.8286	13.34	10.39	23.73	46.00	-22.27	AVG	P
5	1.9752	25.08	10.19	35.27	56.00	-20.73	QP	P
6	1.9752	16.90	10.19	27.09	46.00	-18.91	AVG	P
7	4.6887	23.43	10.25	33.68	56.00	-22.32	QP	P
8	4.6887	14.12	10.25	24.37	46.00	-21.63	AVG	P
9	14.8872	28.71	10.42	39.13	60.00	-20.87	QP	P
10	14.8872	11.72	10.42	22.14	50.00	-27.86	AVG	P
11	22.7535	28.70	10.46	39.16	60.00	-20.84	QP	P
12	22.7535	13.49	10.46	23.95	50.00	-26.05	AVG	P

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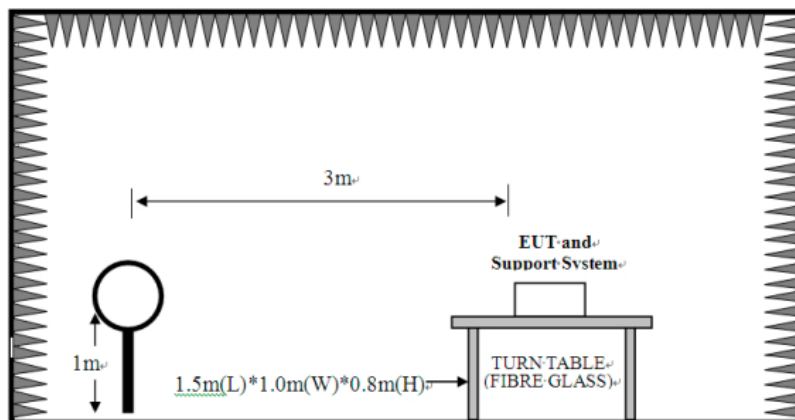
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



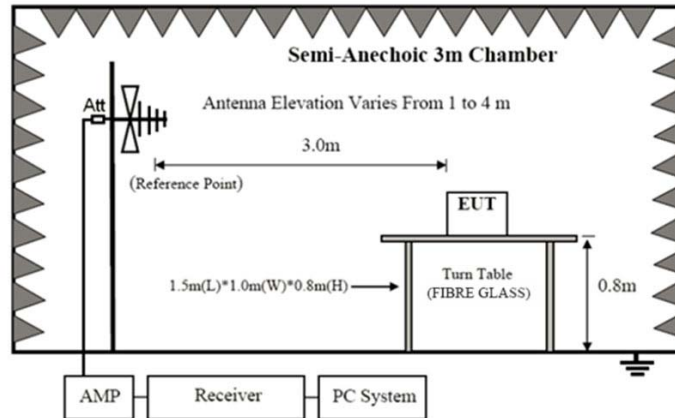
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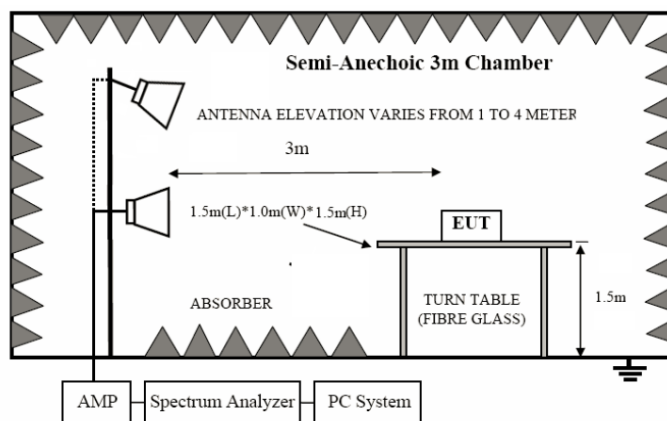
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. Worse case were recorded in the test report. 802.11b was the worst case.
 5. MIMO Mode was tested and it was the worst case
 6. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2437MHz) was the worst case.

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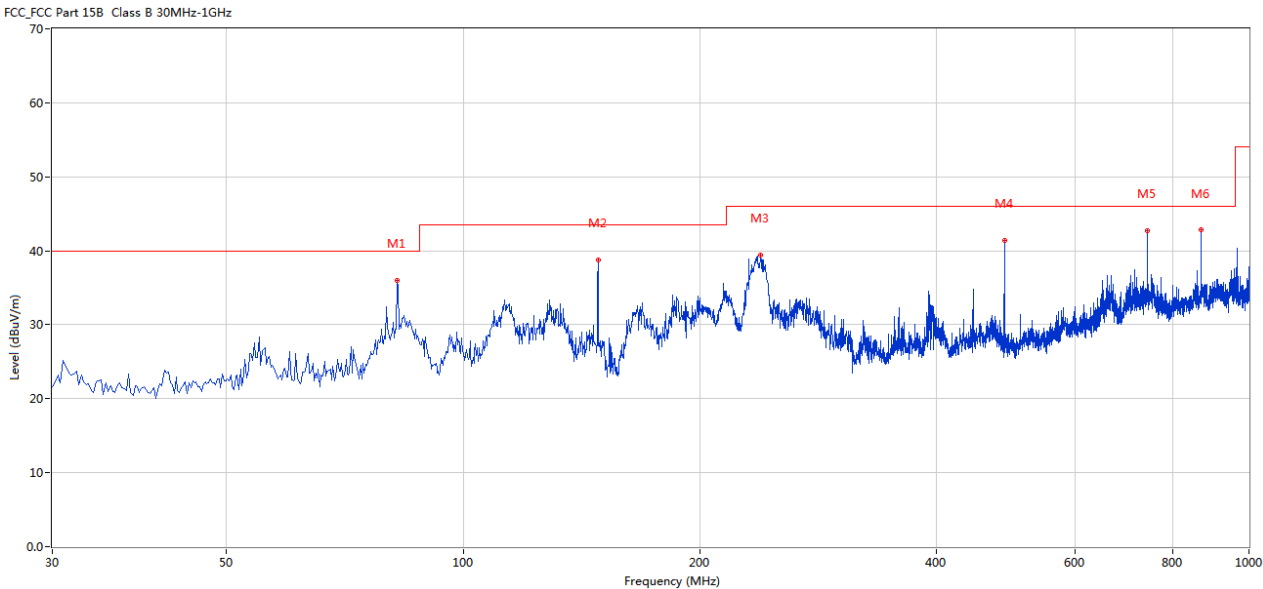
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Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2437MHz)
Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	82.367	36.01	-12.63	40.0	3.99	Peak	338.00	100	Horizontal	Pass
2	148.553	38.81	-13.40	43.5	4.69	Peak	279.00	100	Horizontal	Pass
3	239.225	39.40	-8.91	46.0	6.60	Peak	355.00	100	Horizontal	Pass
4	488.453	41.38	-4.46	46.0	4.62	Peak	259.00	100	Horizontal	Pass
5	742.287	42.74	-0.17	46.0	3.26	Peak	326.00	100	Horizontal	Pass
6	869.325	42.80	2.56	46.0	3.20	Peak	351.00	100	Horizontal	Pass

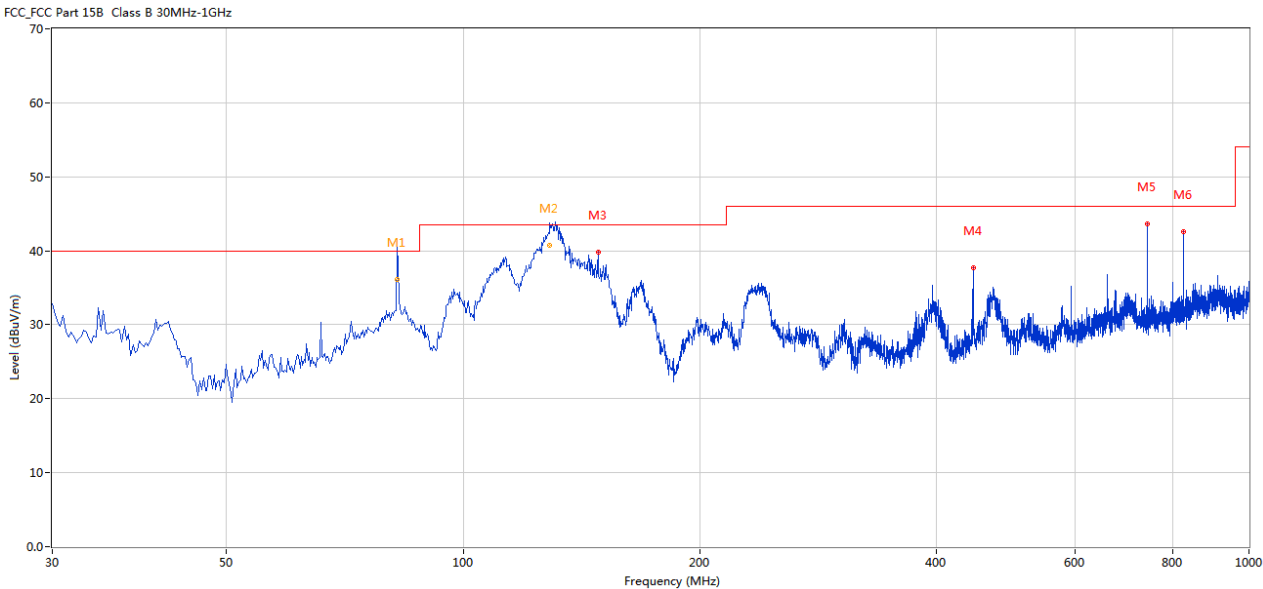
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Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2437MHz)
Results: **Pass**



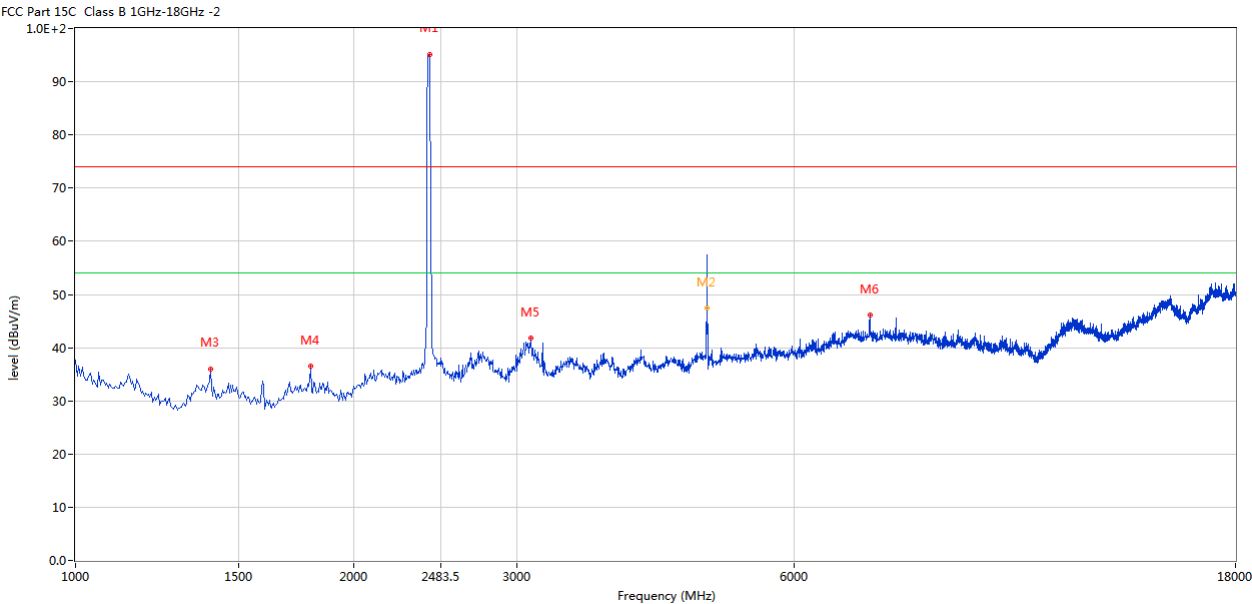
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	82.367	36.14	-12.63	40.0	3.86	QP	360.00	100	Vertical	Pass
2*	128.915	40.70	-11.04	43.5	2.80	QP	360.00	100	Vertical	Pass
3	148.553	39.87	-13.40	43.5	3.63	Peak	360.00	100	Vertical	Pass
4	445.541	37.74	-3.99	46.0	8.26	Peak	360.00	100	Vertical	Pass
5	742.529	43.68	-0.16	46.0	2.32	Peak	360.00	100	Vertical	Pass
6	824.716	42.59	0.59	46.0	3.41	Peak	360.00	100	Vertical	Pass

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Please refer to the following test plots for details:

CH01 for 11n 802.11b: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2415.250	95.17	-3.57	74.0	21.17	Peak	271.00	100	Horizontal	N/A
2	4825.000	57.52	3.15	74.0	-16.48	Peak	286.00	100	Horizontal	Pass
2**	4825.000	47.44	3.15	54.0	-6.56	AV	286.00	100	Horizontal	Pass
3	1399.500	35.89	-8.17	74.0	-38.11	Peak	305.00	100	Horizontal	Pass
4	1799.000	36.44	-6.83	74.0	-37.56	Peak	247.00	100	Horizontal	Pass
5	3108.000	41.76	-2.18	74.0	-32.24	Peak	185.00	100	Horizontal	Pass
6	7234.750	46.06	8.09	74.0	-27.94	Peak	286.00	100	Horizontal	Pass

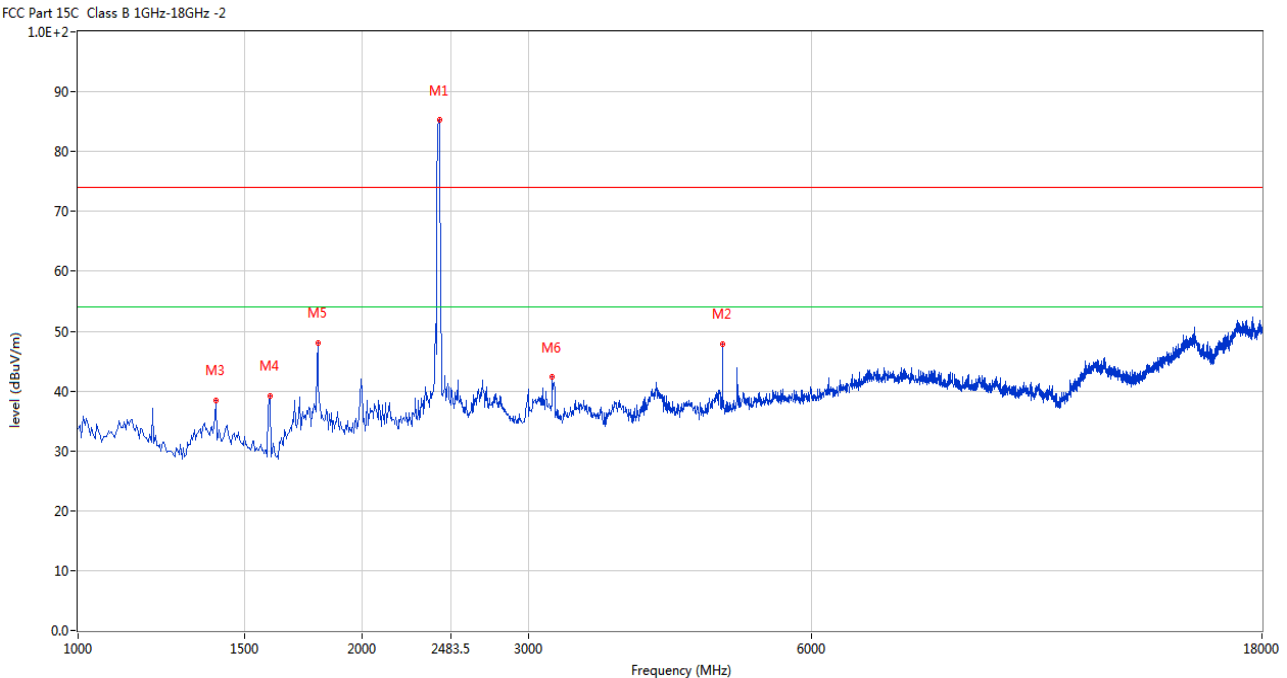
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CH01 for 11b: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2415.250	85.23	-3.57	74.0	11.23	Peak	195.00	100	Vertical	N/A
2	4825.000	47.86	3.15	74.0	-26.14	Peak	195.00	100	Vertical	Pass
3	1399.500	38.35	-8.17	74.0	-35.65	Peak	213.00	100	Vertical	Pass
4	1599.250	39.26	-7.97	74.0	-34.74	Peak	144.00	100	Vertical	Pass
5	1794.750	48.02	-6.86	74.0	-25.98	Peak	264.00	100	Vertical	Pass
6	3184.500	42.28	-2.00	74.0	-31.72	Peak	245.00	100	Vertical	Pass

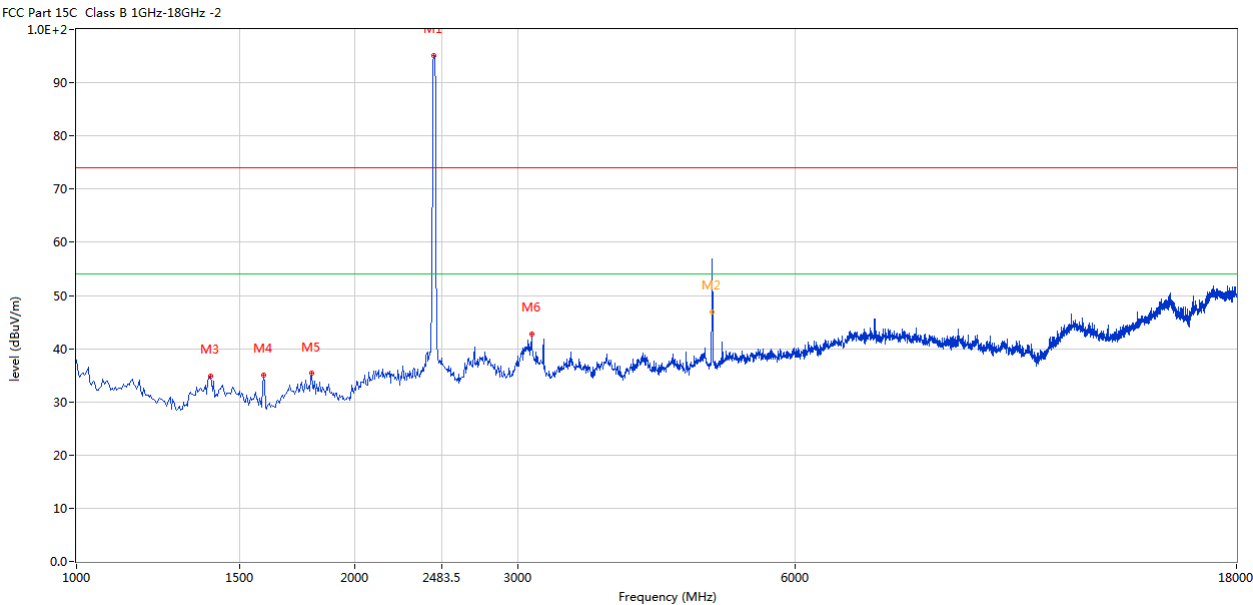
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CH06 for 11b: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2436.500	95.17	-3.57	74.0	21.17	Peak	89.00	100	Horizontal	N/A
2	4876.000	56.93	3.19	74.0	-17.07	Peak	91.00	100	Horizontal	Pass
2**	4876.000	46.88	3.19	54.0	-7.12	AV	91.00	100	Horizontal	Pass
3	1395.250	34.87	-8.17	74.0	-39.13	Peak	328.00	100	Horizontal	Pass
4	1595.000	35.12	-7.98	74.0	-38.88	Peak	297.00	100	Horizontal	Pass
5	1794.750	35.45	-6.86	74.0	-38.55	Peak	182.00	100	Horizontal	Pass
6	3108.000	42.78	-2.18	74.0	-31.22	Peak	169.00	100	Horizontal	Pass

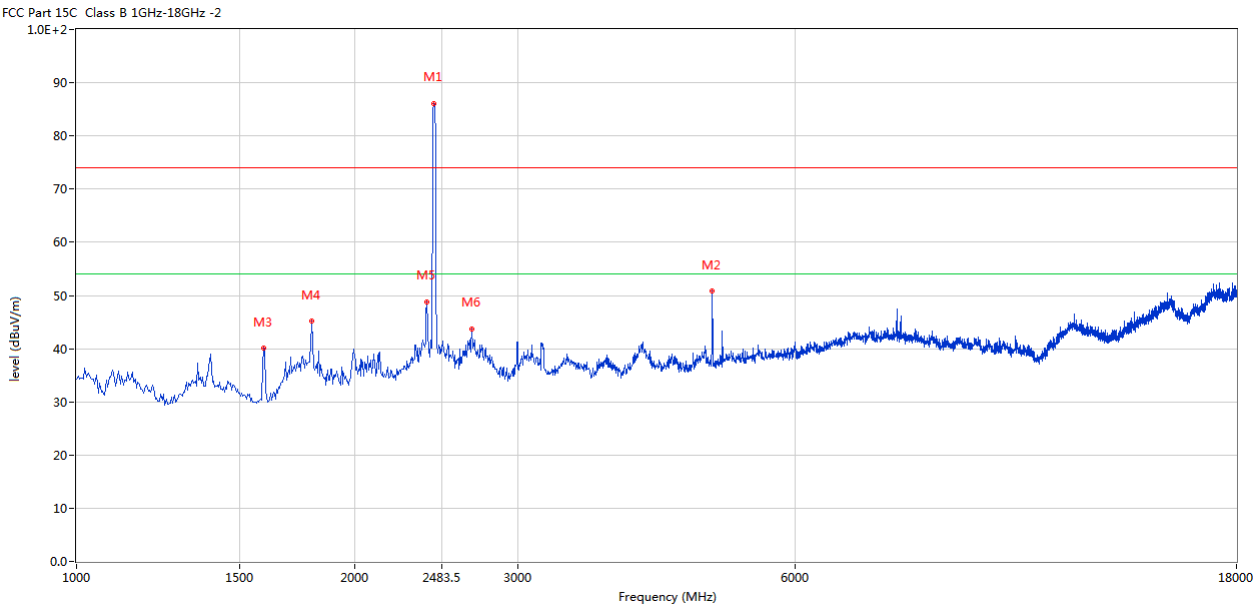
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CH06 for 11b: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2436.500	86.13	-3.57	74.0	12.13	Peak	220.00	100	Vertical	N/A
2	4876.000	50.78	3.19	74.0	-23.22	Peak	176.00	100	Vertical	Pass
3	1595.000	40.06	-7.98	74.0	-33.94	Peak	129.00	100	Vertical	Pass
4	1799.000	45.13	-6.83	74.0	-28.87	Peak	272.00	100	Vertical	Pass
5	2394.000	48.70	-3.55	74.0	-25.30	Peak	266.00	100	Vertical	Pass
6	2678.750	43.78	-3.04	74.0	-30.22	Peak	332.00	100	Vertical	Pass

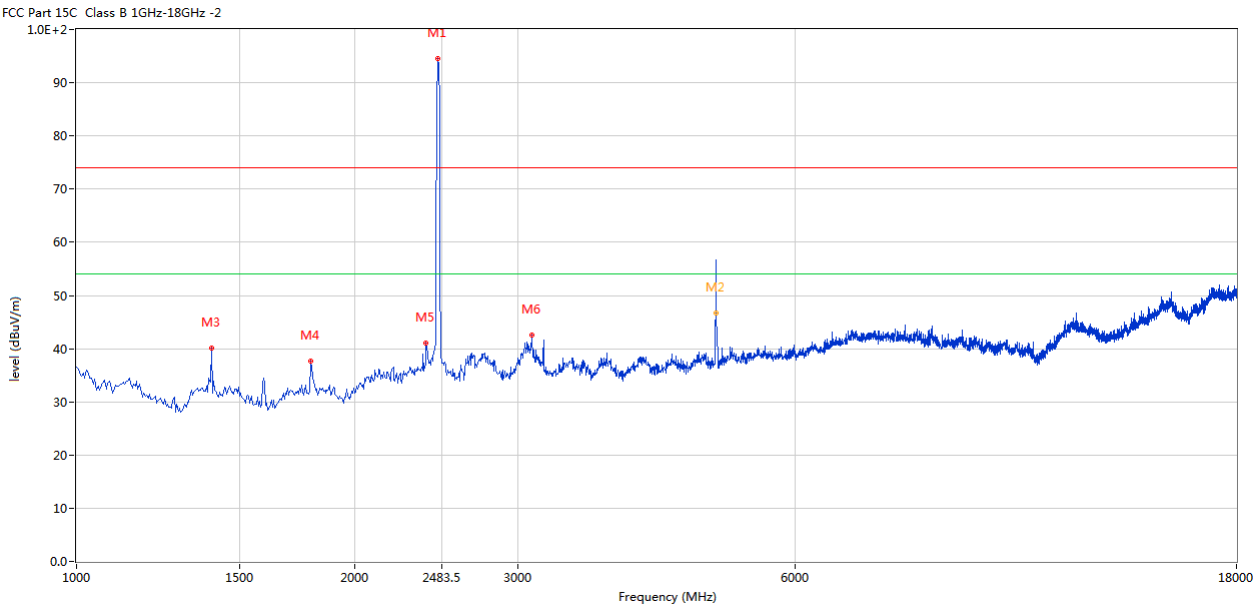
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CH11 for 11b: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2462.000	94.45	-3.57	74.0	20.45	Peak	91.00	100	Horizontal	N/A
2	4922.750	56.77	3.27	74.0	-17.23	Peak	91.00	100	Horizontal	Pass
2**	4922.750	46.74	3.27	54.0	-7.26	AV	91.00	100	Horizontal	Pass
3	1399.500	40.04	-8.17	74.0	-33.96	Peak	329.00	100	Horizontal	Pass
4	1790.500	37.65	-6.89	74.0	-36.35	Peak	205.00	100	Horizontal	Pass
5	2389.750	41.02	-3.53	74.0	-32.98	Peak	226.00	100	Horizontal	Pass
6	3108.000	42.51	-2.18	74.0	-31.49	Peak	205.00	100	Horizontal	Pass

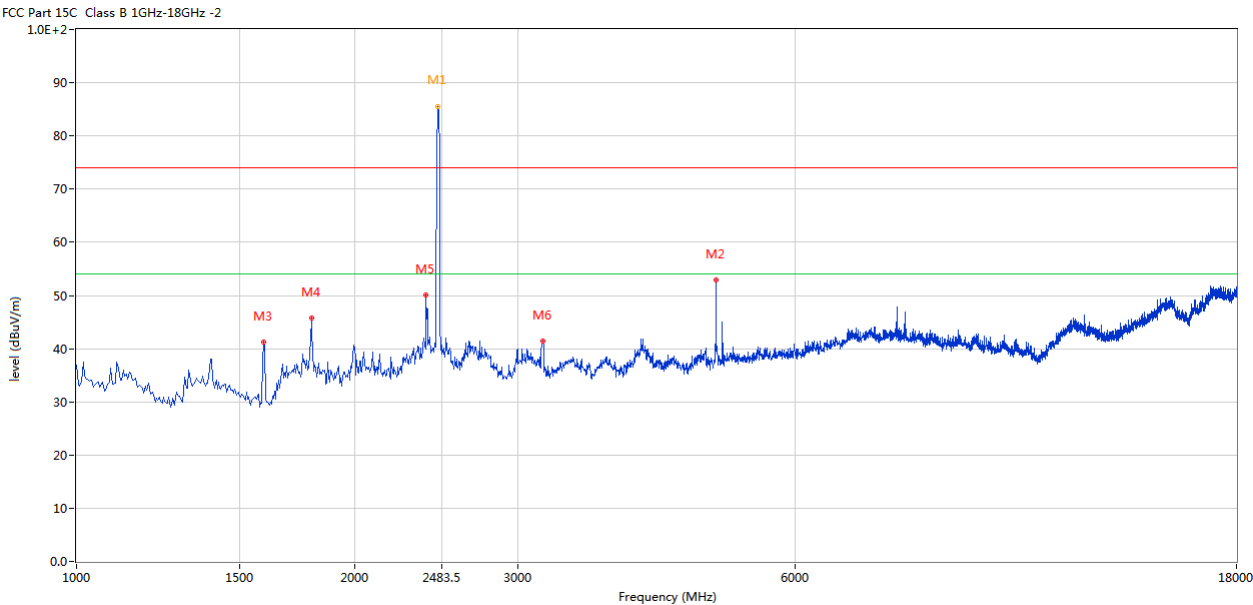
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CH11 for 11b: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2462.000	85.45	-3.57	74.0	11.45	Peak	175.00	100	Vertical	N/A
2	4922.750	52.84	3.27	74.0	-21.16	Peak	178.00	100	Vertical	Pass
3	1595.000	41.17	-7.98	74.0	-32.83	Peak	123.00	100	Vertical	Pass
4	1794.750	45.68	-6.86	74.0	-28.32	Peak	308.00	100	Vertical	Pass
5	2389.750	50.14	-3.53	74.0	-23.86	Peak	284.00	100	Vertical	Pass
6	3197.250	41.41	-1.98	74.0	-32.59	Peak	244.00	100	Vertical	Pass

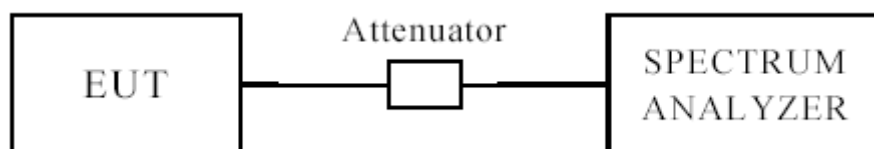
- Note: 1. Result Level = Reading + Factor
2. Factor= AF + Cable Loss- Preamp
3. Margin = Result– Limit
4. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
5. For radiated Emissions from 18-25GHz, it is only the floor noise.
5. For radiated emissions below 30MHz, it is the floor noise and the field strength is much less than the limit for 20dB.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Occupied Bandwidth

EUT	Mobile Video Switching Box		Model	PR0529A	
Mode	802.11b		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.14	0.5	Pass
6	2437	1	10.14	0.5	Pass
11	2462	1	10.14	0.5	Pass
1	2412	11	11.16	0.5	Pass
6	2437	11	11.46	0.5	Pass
11	2462	11	11.46	0.5	Pass

Note: Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.

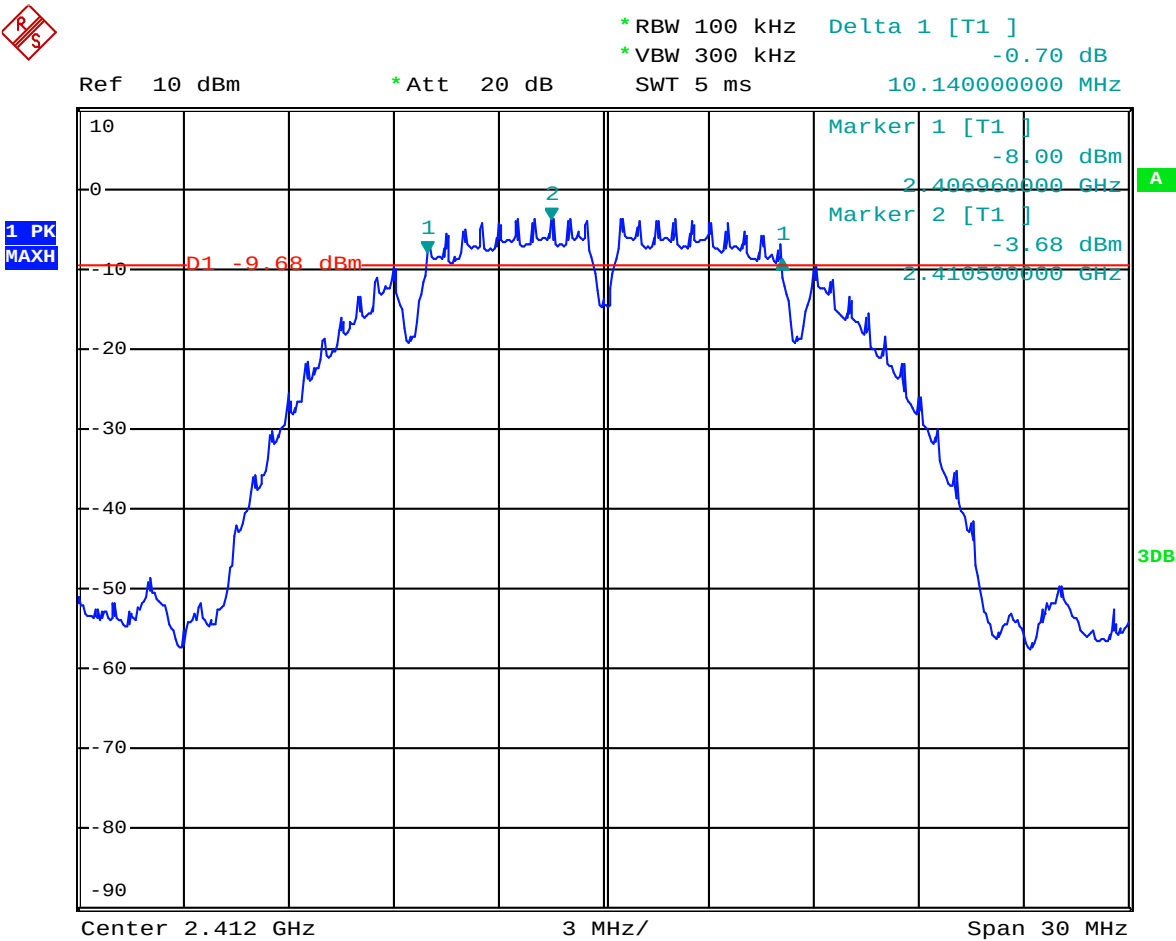
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1. 802.11b at 1Mbps of CH01

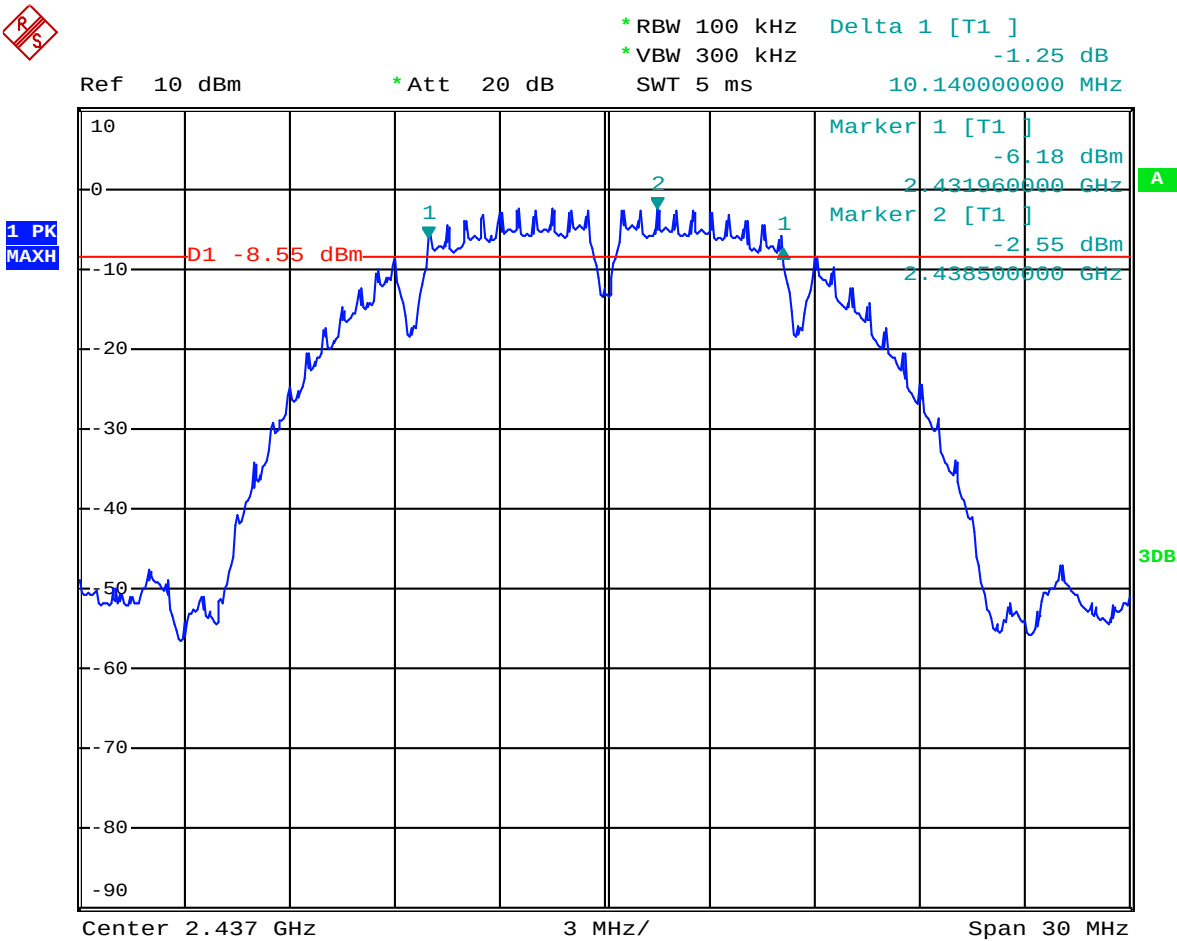


Date: 2.MAR.2026 14:11:40

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2. 802.11b at 1Mbps of CH06

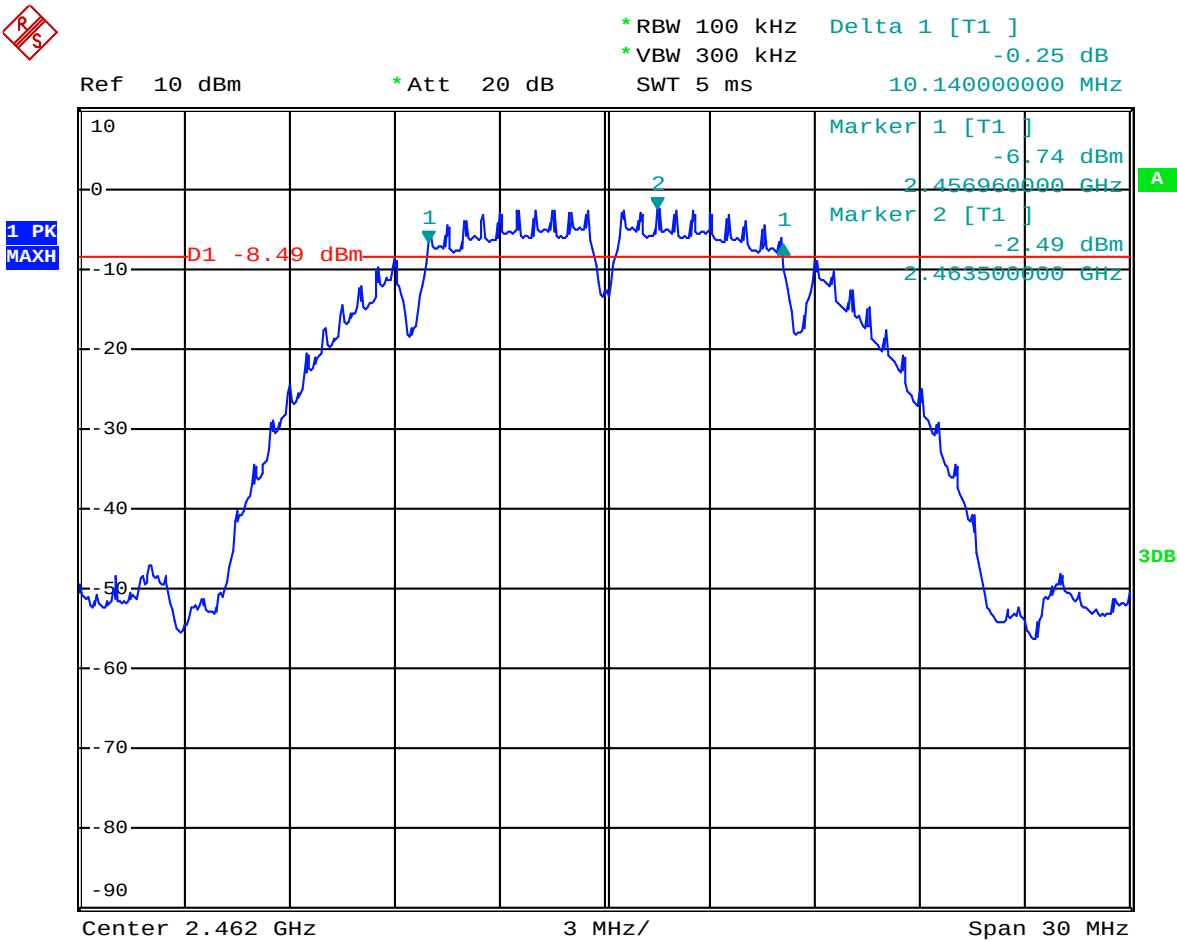


Date: 2.MAR.2026 15:16:06

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3. 802.11b at 1Mbps of CH11

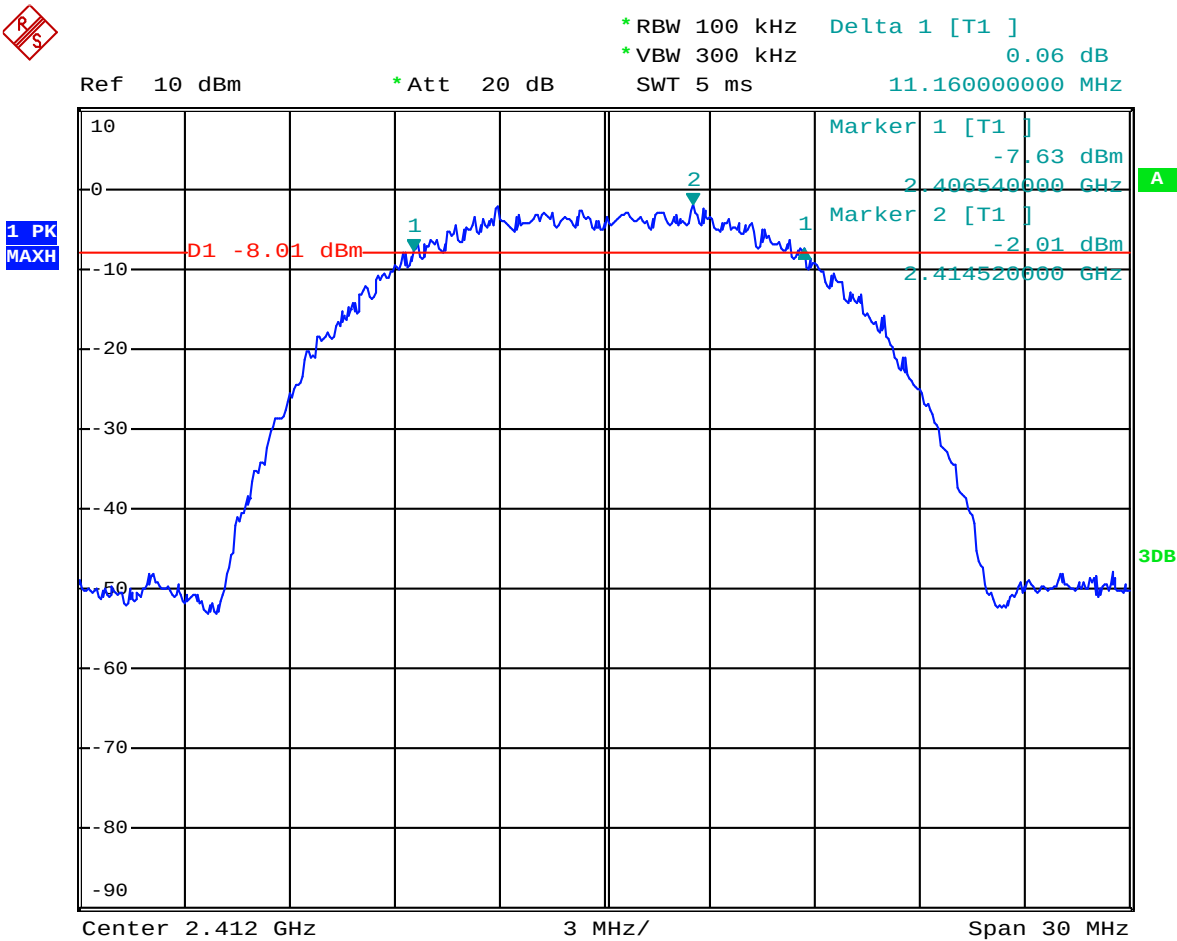


Date: 2.MAR.2026 15:50:52

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4. 802.11b at 11Mbps of CH01

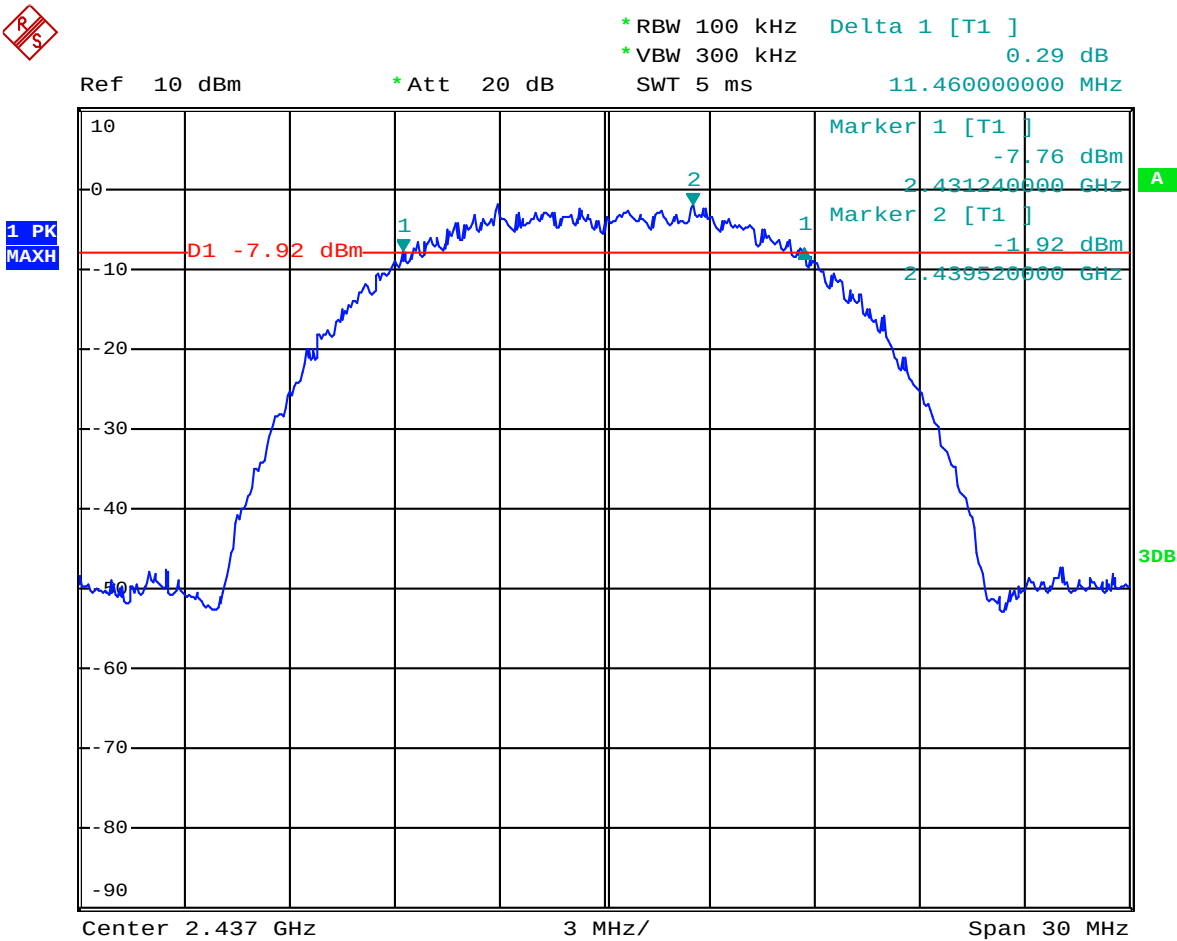


Date: 2.MAR.2026 14:28:45

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5. 802.11b at 11Mbps of CH06

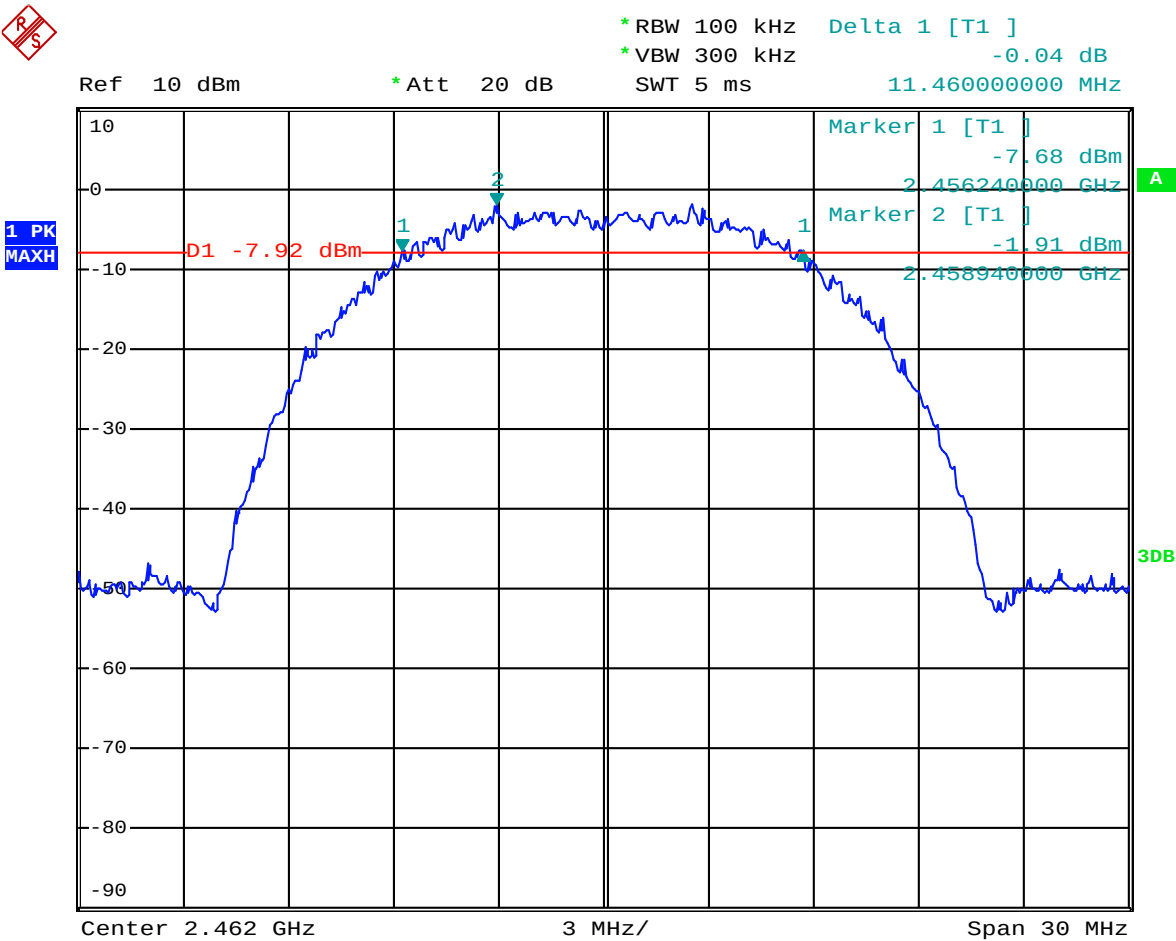


Date: 2.MAR.2026 15:20:57

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6. 802.11b at 11Mbps of CH11



Date: 2.MAR.2026 15:40:58

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6dB Occupied Bandwidth

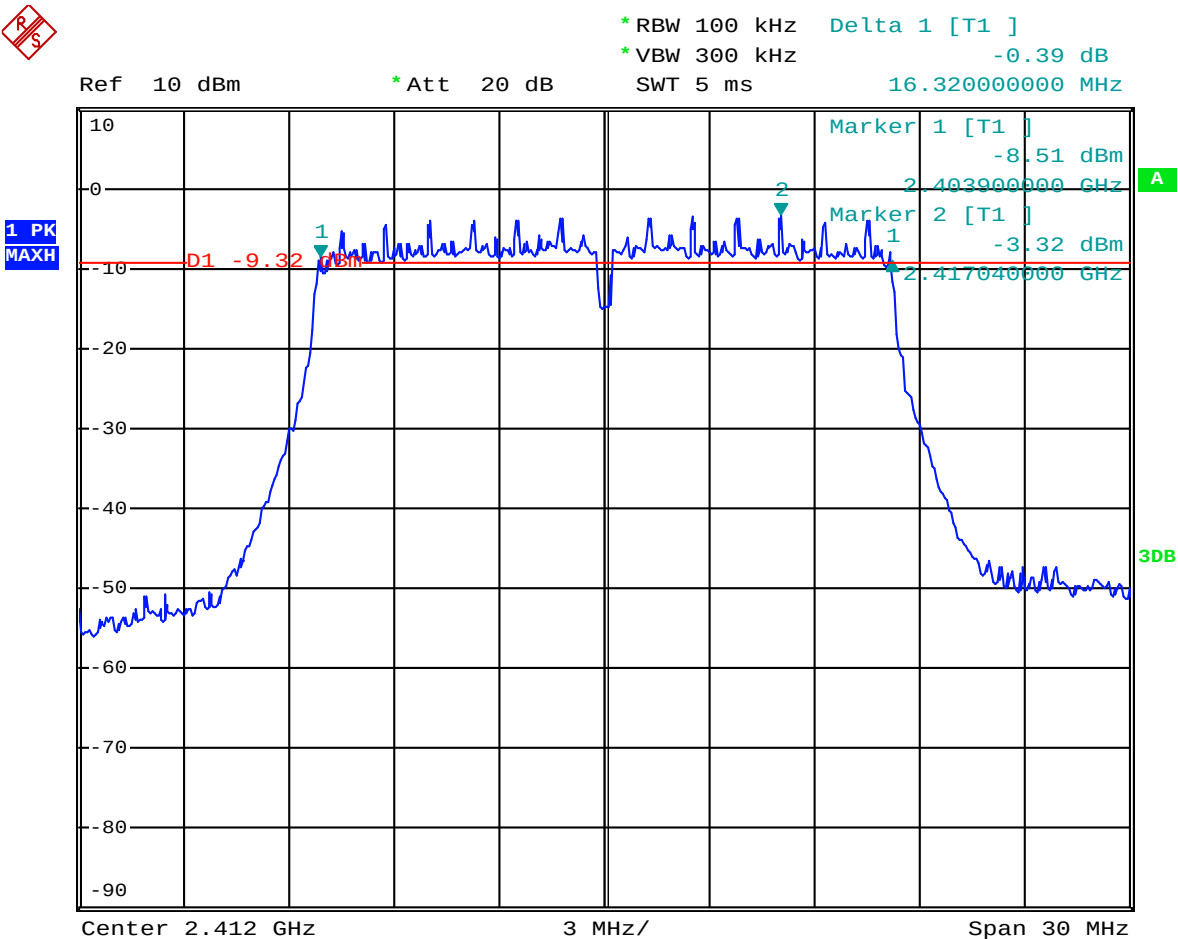
EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11g		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	16.32	0.5	Pass
6	2437	6	16.38	0.5	Pass
11	2462	6	16.38	0.5	Pass

Note: Two antennas were tested and only the worst cased was recorded in the test report. J7 was the worst case.

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Test Plots:
1. 802.11g at 6Mbps of CH01

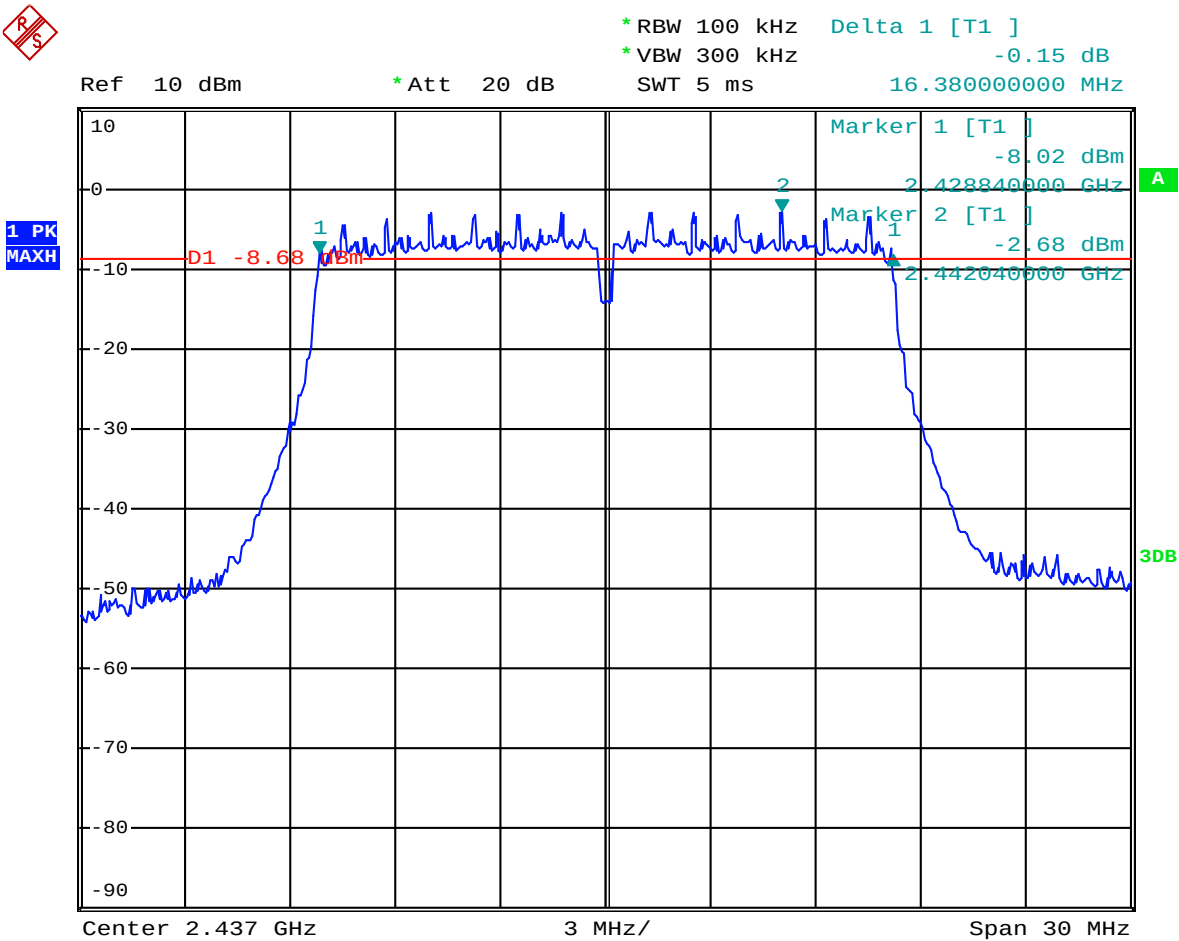


Date: 2.MAR.2026 14:32:09

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2. 802.11g at 6Mbps of CH06

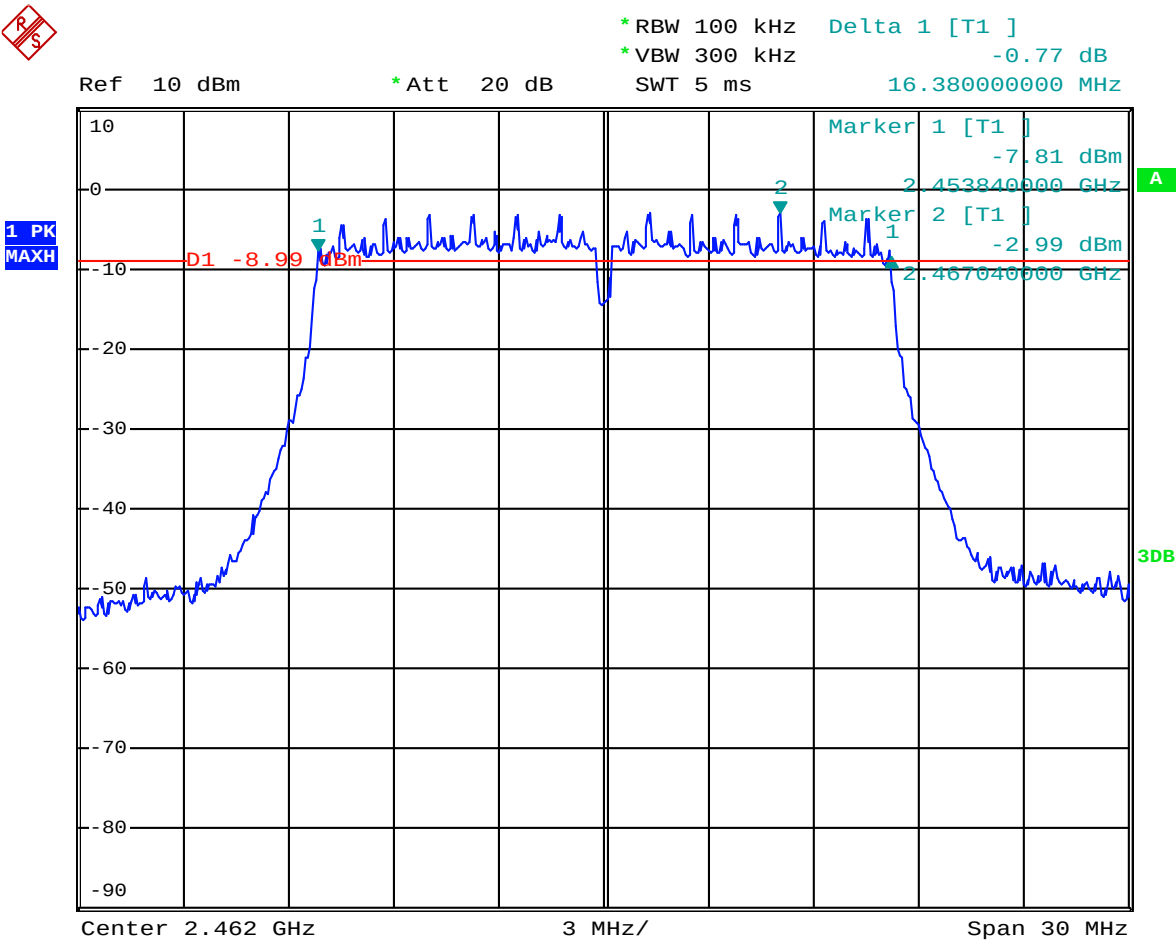


Date: 2.MAR.2026 15:12:41

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3. 802.11g at 6Mbps of CH11



Date: 2.MAR.2026 15:58:42

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6dB Occupied Bandwidth

EUT	Mobile Video Switching Box		Model	PR0529A	
Mode	802.11n HT20		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	mcs0	16.74	0.5	Pass
6	2437	mcs0	17.58	0.5	Pass
11	2462	mcs0	17.10	0.5	Pass

Note: Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.

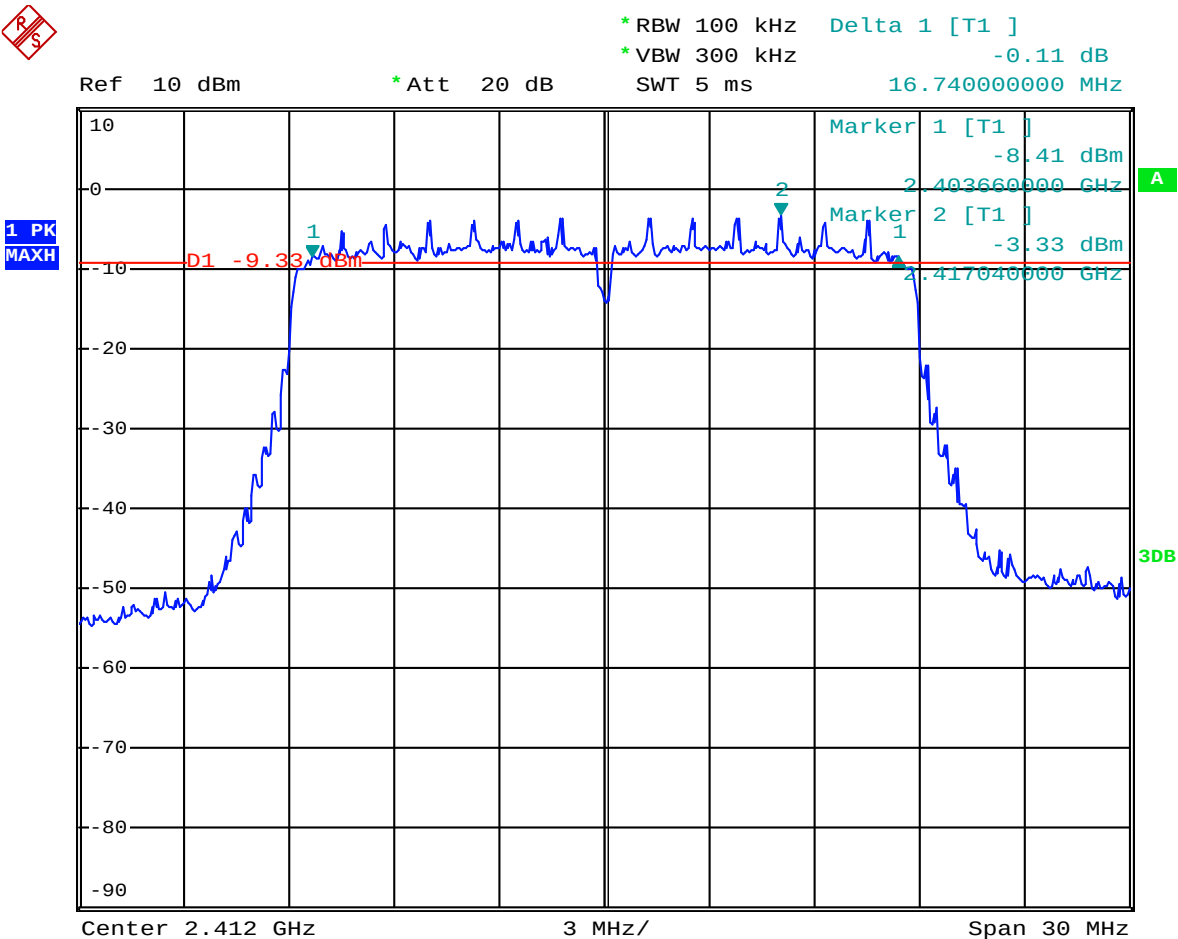
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Test Plots:
1. 802.11n at HT20 of CH01

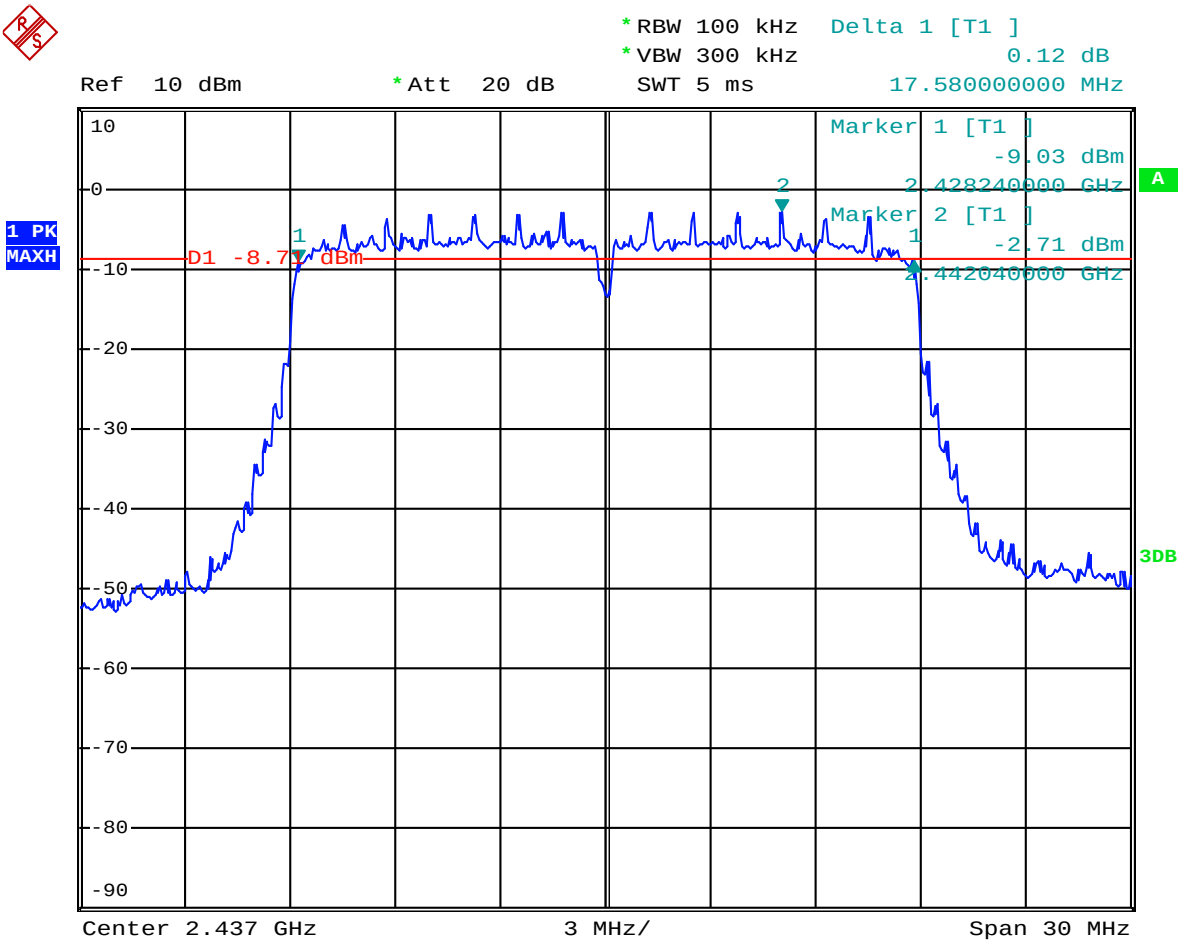


Date: 2.MAR.2026 14:39:13

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2. 802.11n at HT20 of CH06

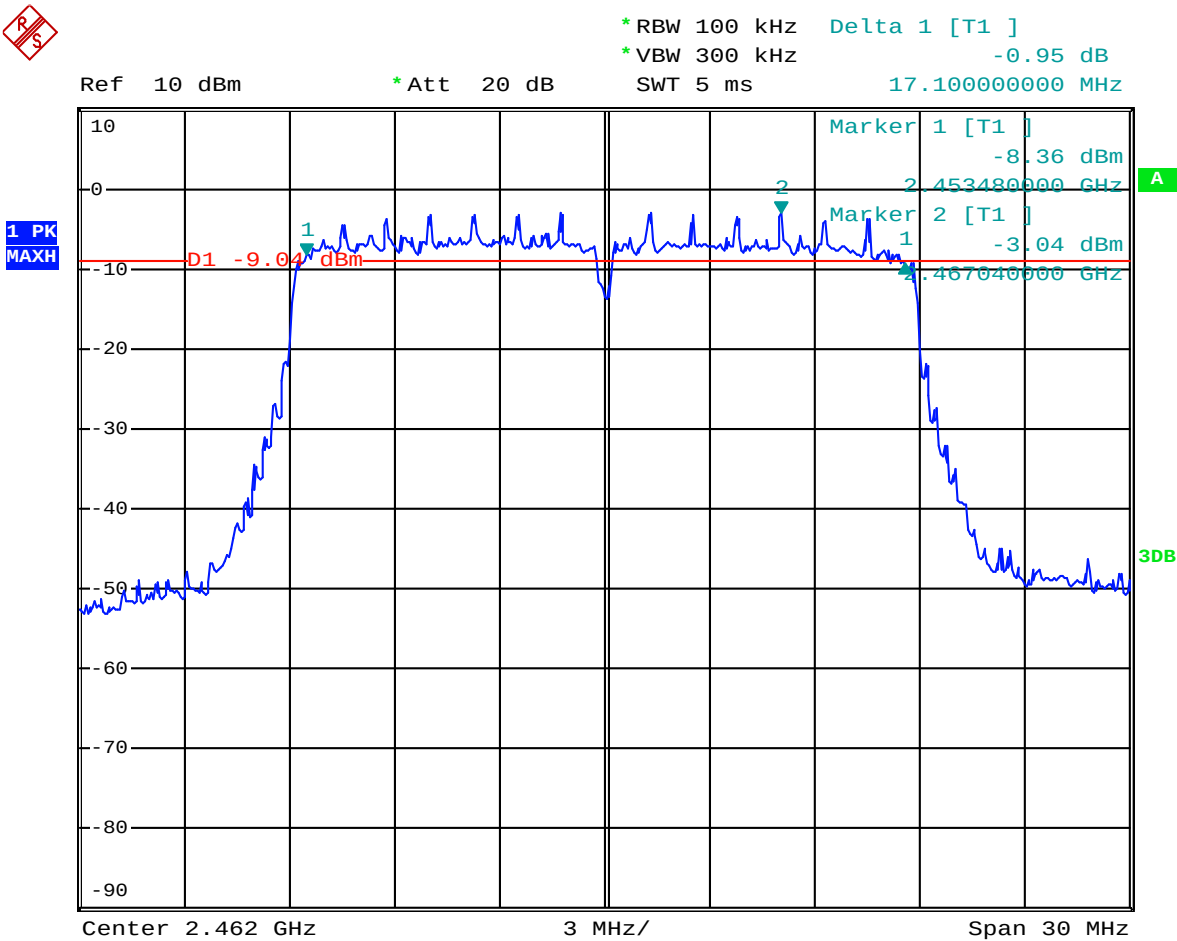


Date: 2.MAR.2026 15:03:58

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3. 802.11n at HT20 of CH11



Date: 2.MAR.2026 16:07:03

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6dB Occupied Bandwidth

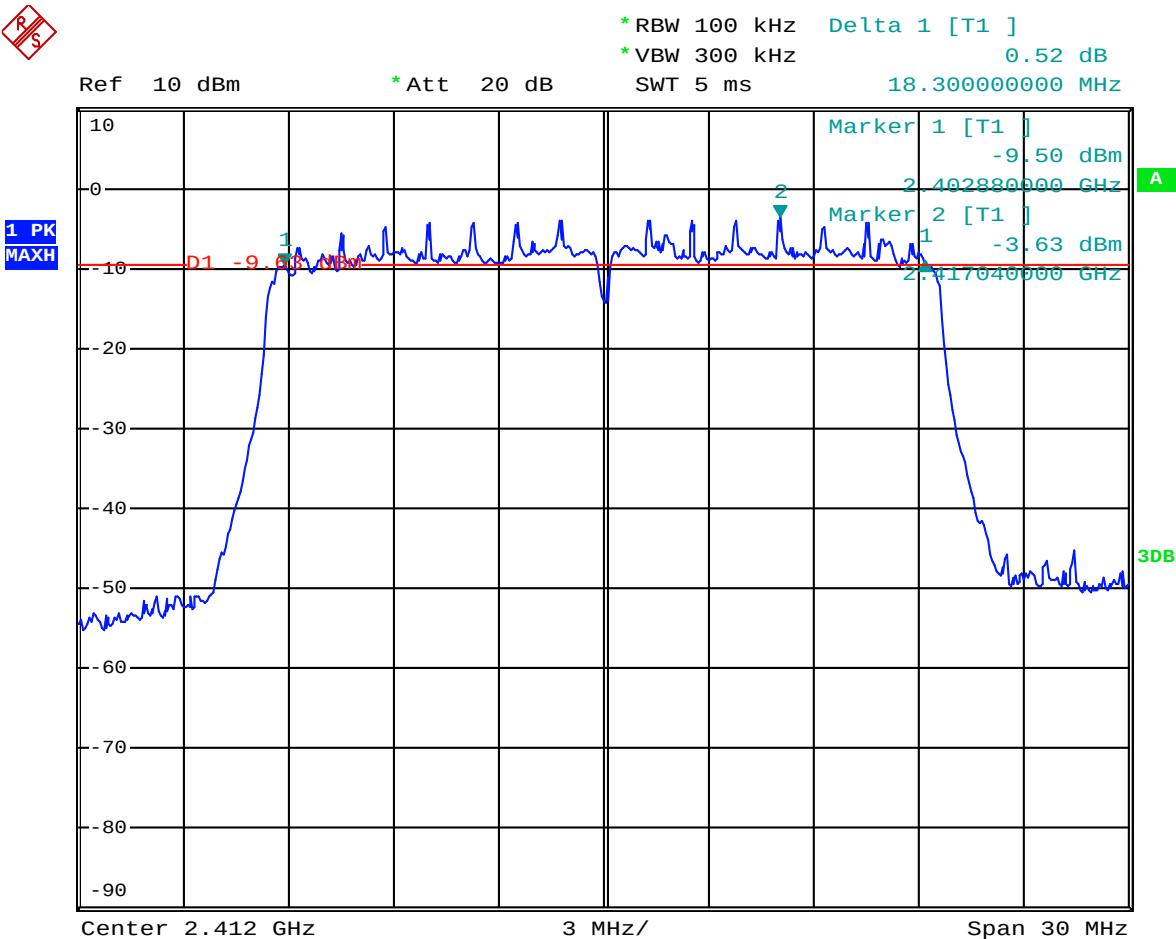
EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ax HEW20		Test Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	mcs0	18.30	0.5	Pass
6	2437	mcs0	18.36	0.5	Pass
11	2462	mcs0	18.54	0.5	Pass

Note: Two antennas were tested and only the worst cased was recorded in the test report. J7 was the worst case.

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Test Plots:
1. 802.11ax HEW20 of CH01

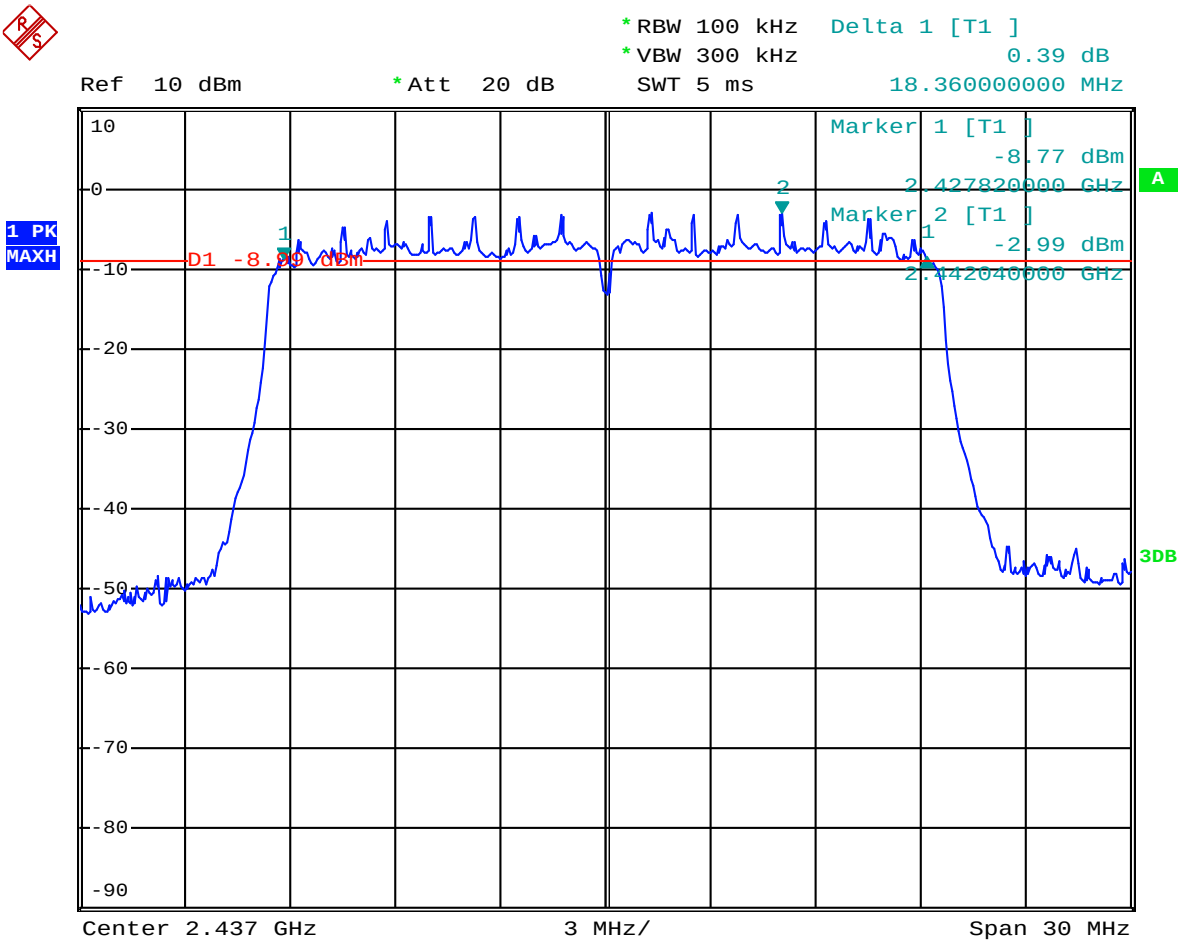


Date: 2.MAR.2026 14:44:41

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2. 802.11ax HEW20 of CH06

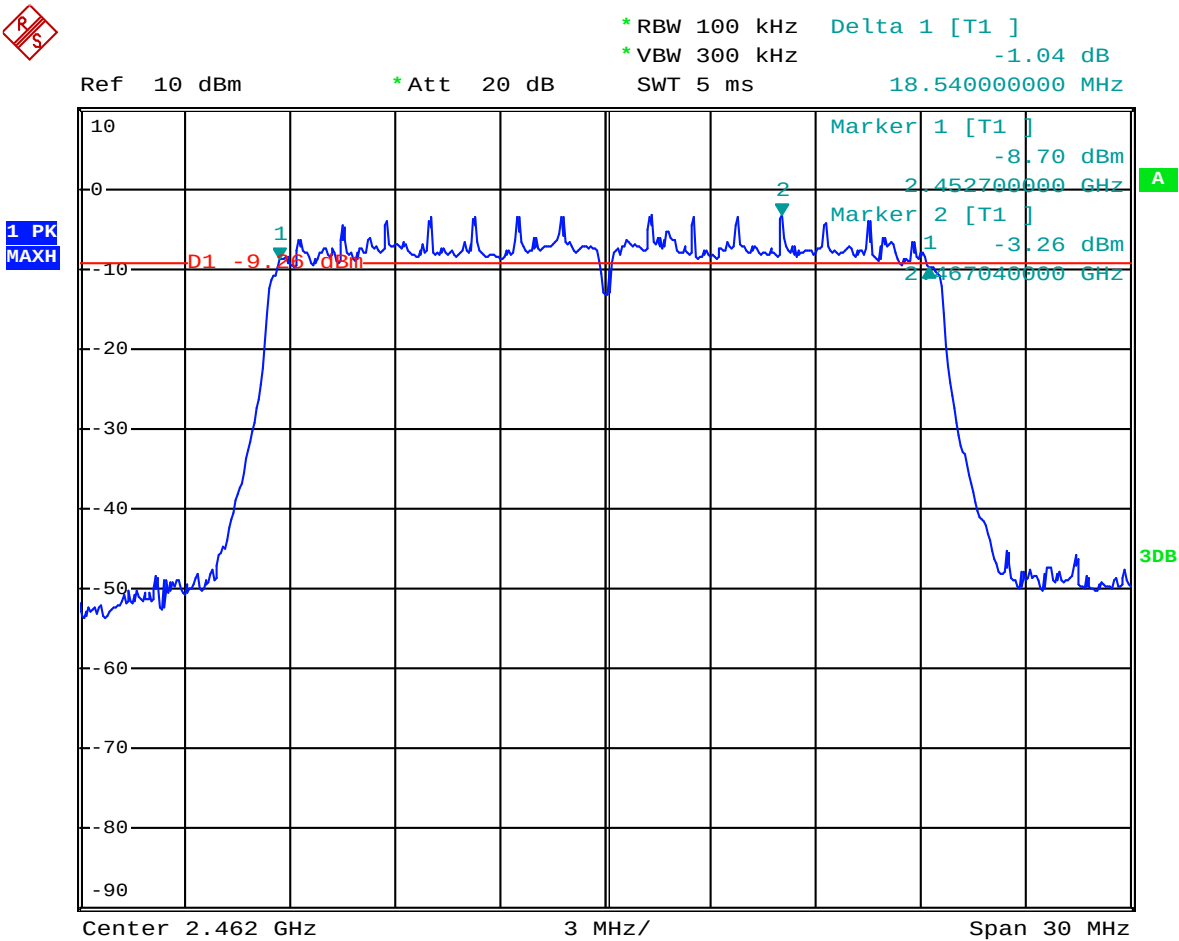


Date: 2.MAR.2026 14:53:10

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3. 802.11ax HEW20 of CH11



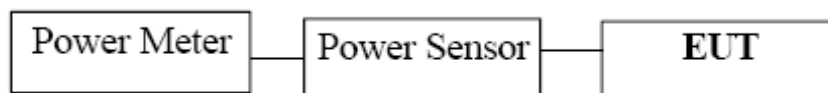
Date: 2.MAR.2026 16:10:26

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: The Peak power was measured

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8.4 Test Results

EUT		Mobile Video Switching Box		Model		PR0529A
Mode		802.11b		Test Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	dBm			
1	2412	15.13	15.16	--	30	Pass
6	2437	15.53	14.93	--	30	Pass
11	2462	15.36	14.68	--	30	Pass

Note: 1. At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

EUT		Mobile Video Switching Box		Model		PR0529A
Mode		802.11g		Test Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	dBm			
1	2412	15.43	15.40	--	30	Pass
6	2437	16.29	15.67	--	30	Pass
11	2462	16.16	15.57	--	30	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11n (HT20)		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	dBm			
1	2412	14.89	15.05	17.98	25.59	Pass
6	2437	15.87	15.34	18.62	25.59	Pass
11	2462	15.68	15.15	18.43	25.59	Pass

Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

4. Directional Gain=7.40+3.01=10.41dBi

5. Power Limit=30-(10.41-6) =25.59dBm

EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11ax HEW20		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	dBm			
1	2412	16.32	16.30	19.32	25.59	Pass
6	2437	17.13	16.59	19.88	25.59	Pass
11	2462	17.00	16.49	19.76	25.59	Pass

Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

4. Directional Gain=7.40+3.01=10.41dBi

5. Power Limit=30-(10.41-6) =25.59dBm

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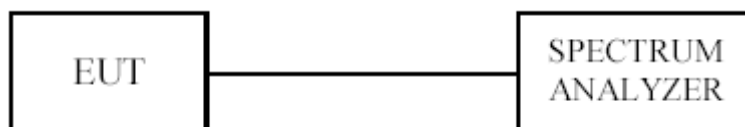
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW $\geq$ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm/3kHz.

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9.4 Test Result

EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11b 11Mbps		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-11.99	--	--	8	Pass
6	2437	-13.36	--	--	8	Pass
1	2462	-13.41	--	--	8	Pass

Note: J7 and J9 were tested and J7 was the worst case

EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11b 1Mbps		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-15.39	--	--	8	Pass
6	2437	-14.68	--	--	8	Pass
1	2462	-14.42	--	--	8	Pass

Note: J7 and J9 were tested and J7 was the worst case

EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11g 6Mbps		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-13.62	--	--	8	Pass
6	2437	-13.06	--	--	8	Pass
1	2462	-12.92	--	--	8	Pass

Note: J7 and J9 were tested and J7 was the worst case

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11n HT20 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	J7 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-13.48	3.01	-10.47	3.59	Pass	
6	2437	-13.21	3.01	-10.20	3.59	Pass	
1	2462	-13.35	3.01	-10.34	3.59	Pass	

Note: 1. Total Power Spectral Density = J7 Power Spectral Density + Factor

2. Factor=10log2=3.01

3. J7 and J9 were tested and J7 was the worst case

4. Directional Gain=7.40+3.01=10.41dBi

5. PSD Limit=8-(10.41-6) =3.59dBm/3kHz

EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ax HEW20		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	J7 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-14.61	3.01	-11.60	3.59	Pass	
6	2437	-14.21	3.01	-11.20	3.59	Pass	
1	2462	-14.38	3.01	-11.37	3.59	Pass	

Note: 1. Total Power Spectral Density = J7 Power Spectral Density + Factor

2. Factor=10log2=3.01

3. J7 and J9 were tested and J7 was the worst case

4. Directional Gain=7.40+3.01=10.41dBi

5. PSD Limit=8-(10.41-6) =3.59dBm/3kHz

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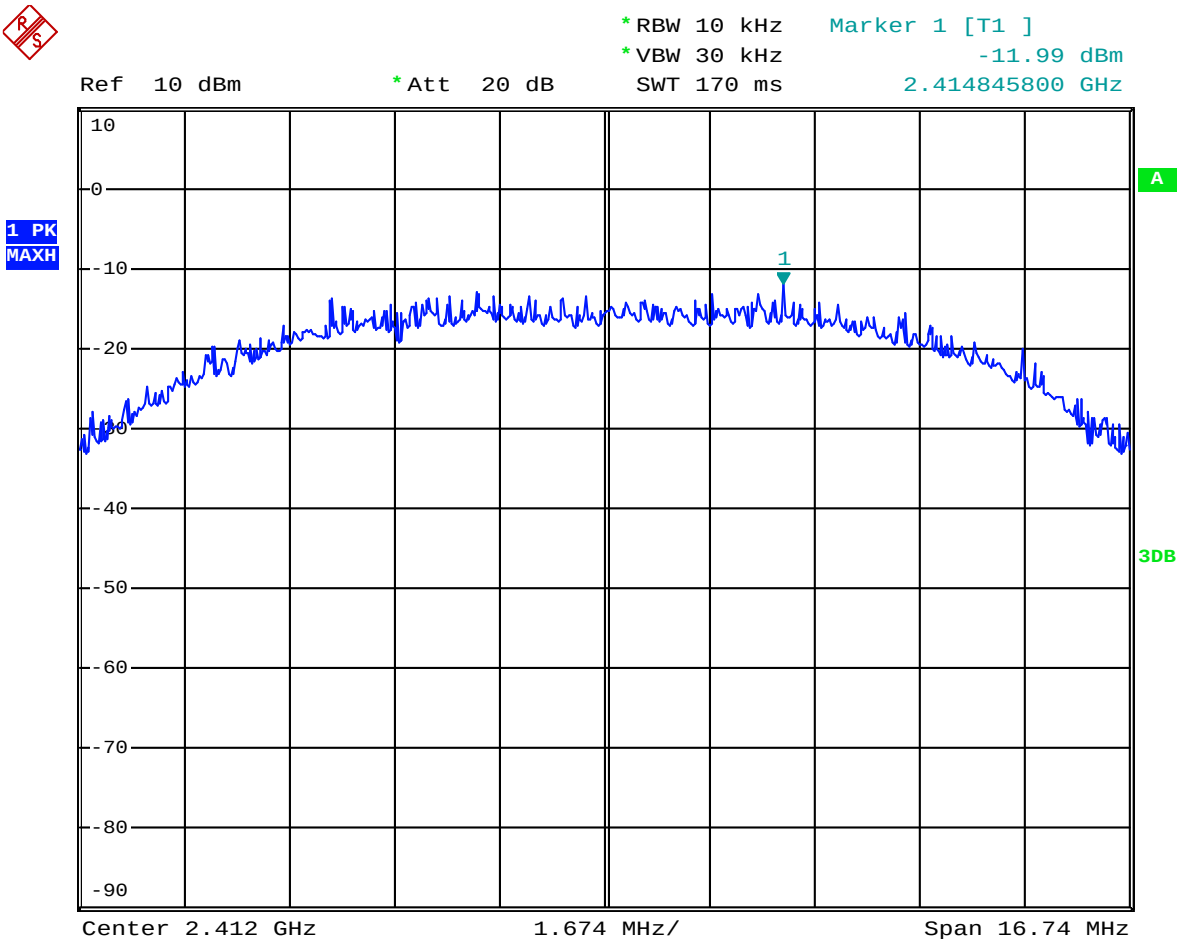
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

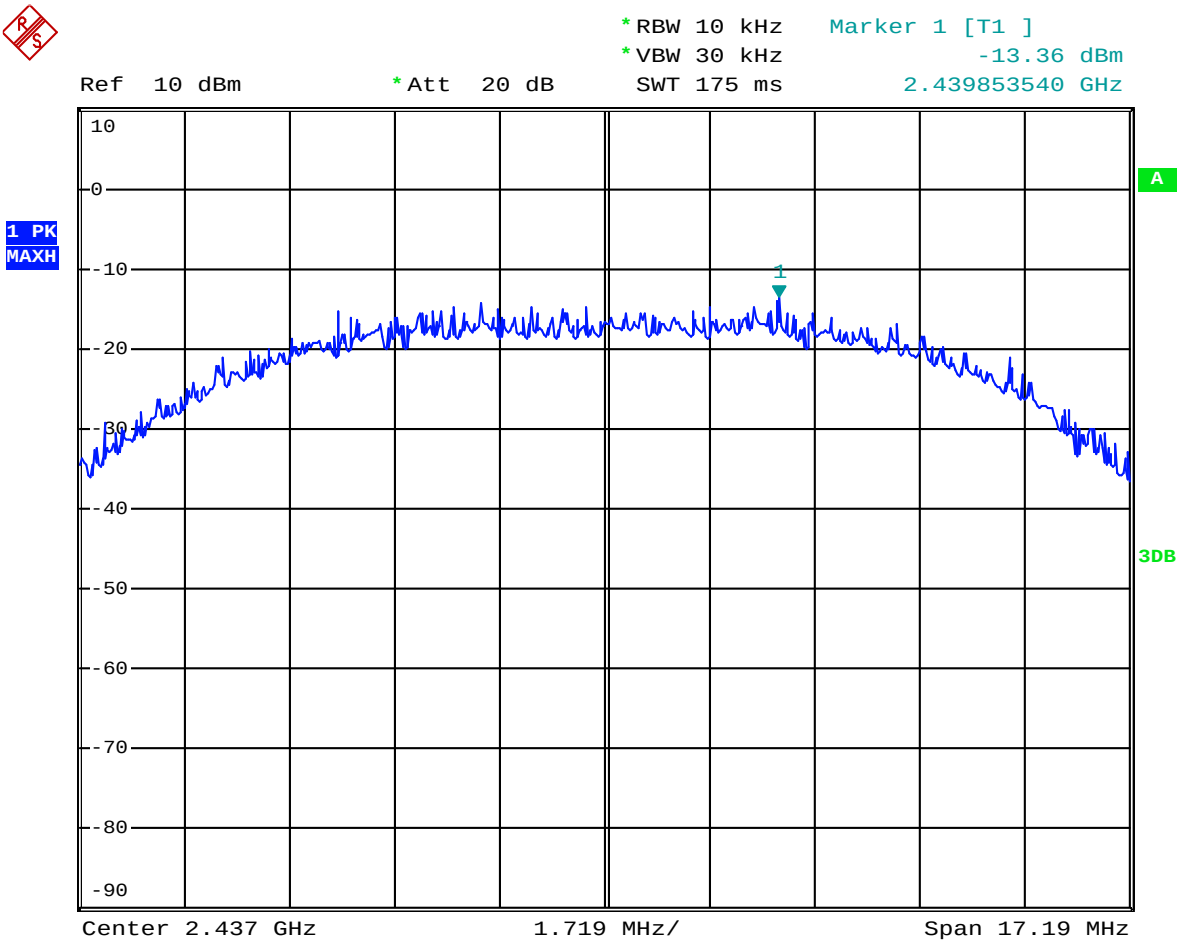


Date: 3.MAR.2026 14:20:44

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2. 802.11b at 11Mbps at CH06

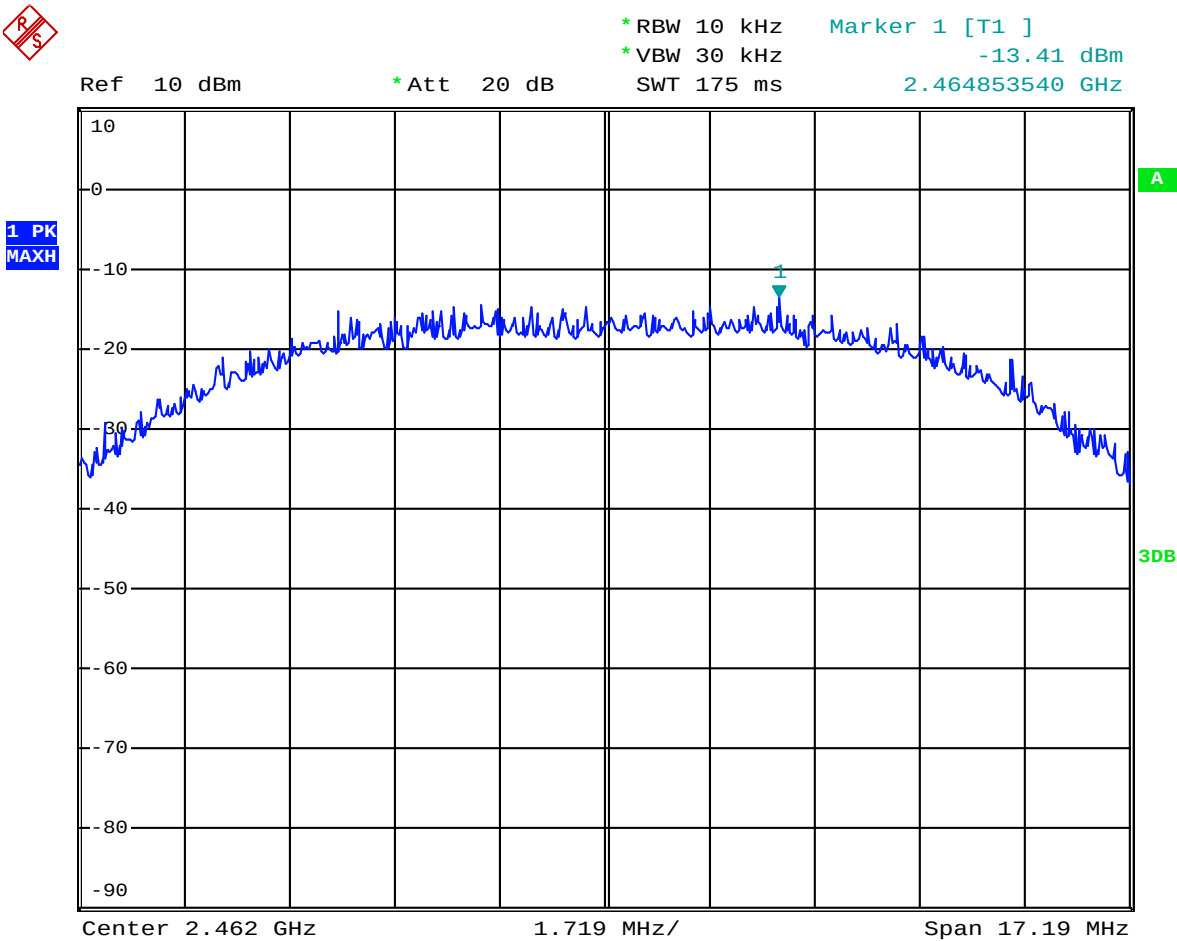


Date: 3.MAR.2026 14:13:05

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3. 802.11b at 11Mbps of CH11

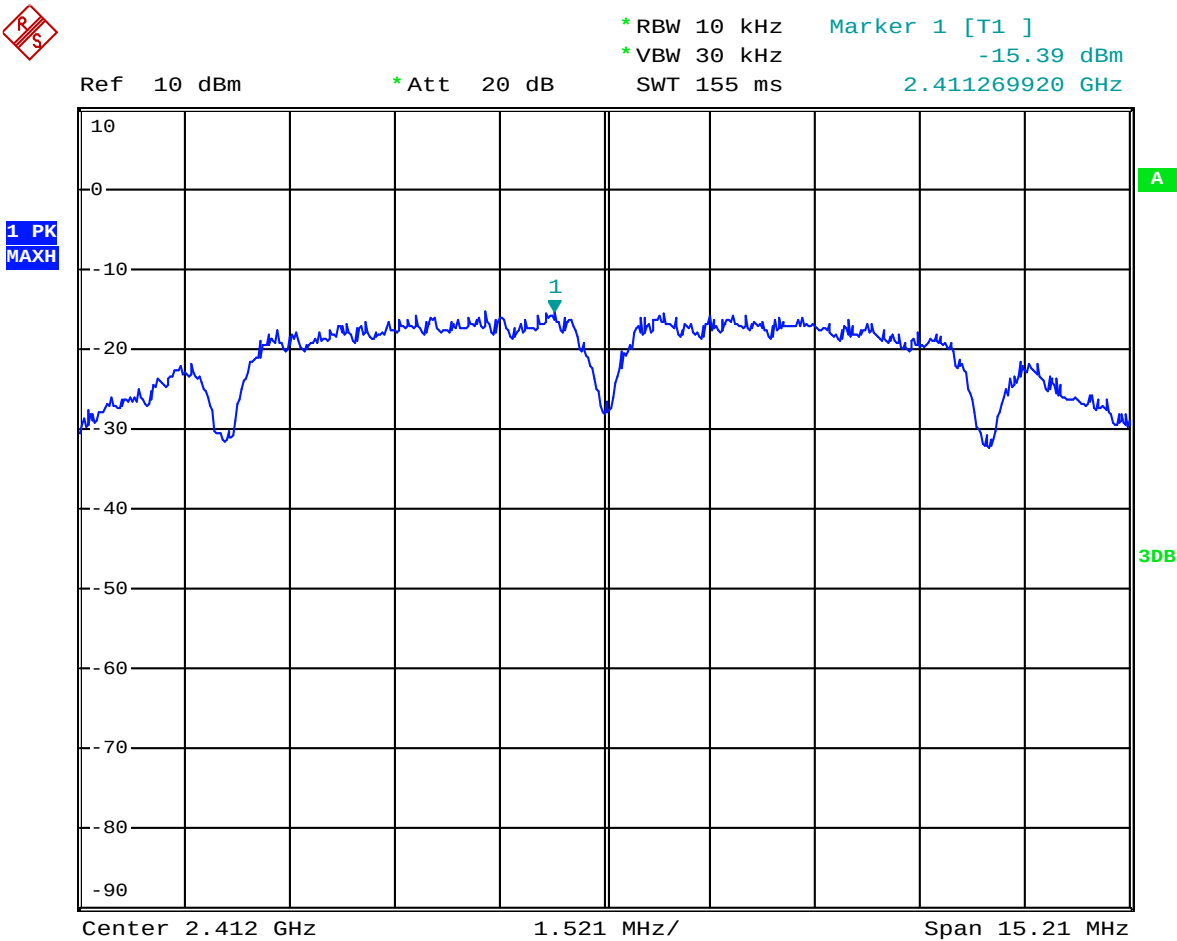


Date: 3.MAR.2026 14:09:03

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4. 802.11b at 1Mbps of CH1

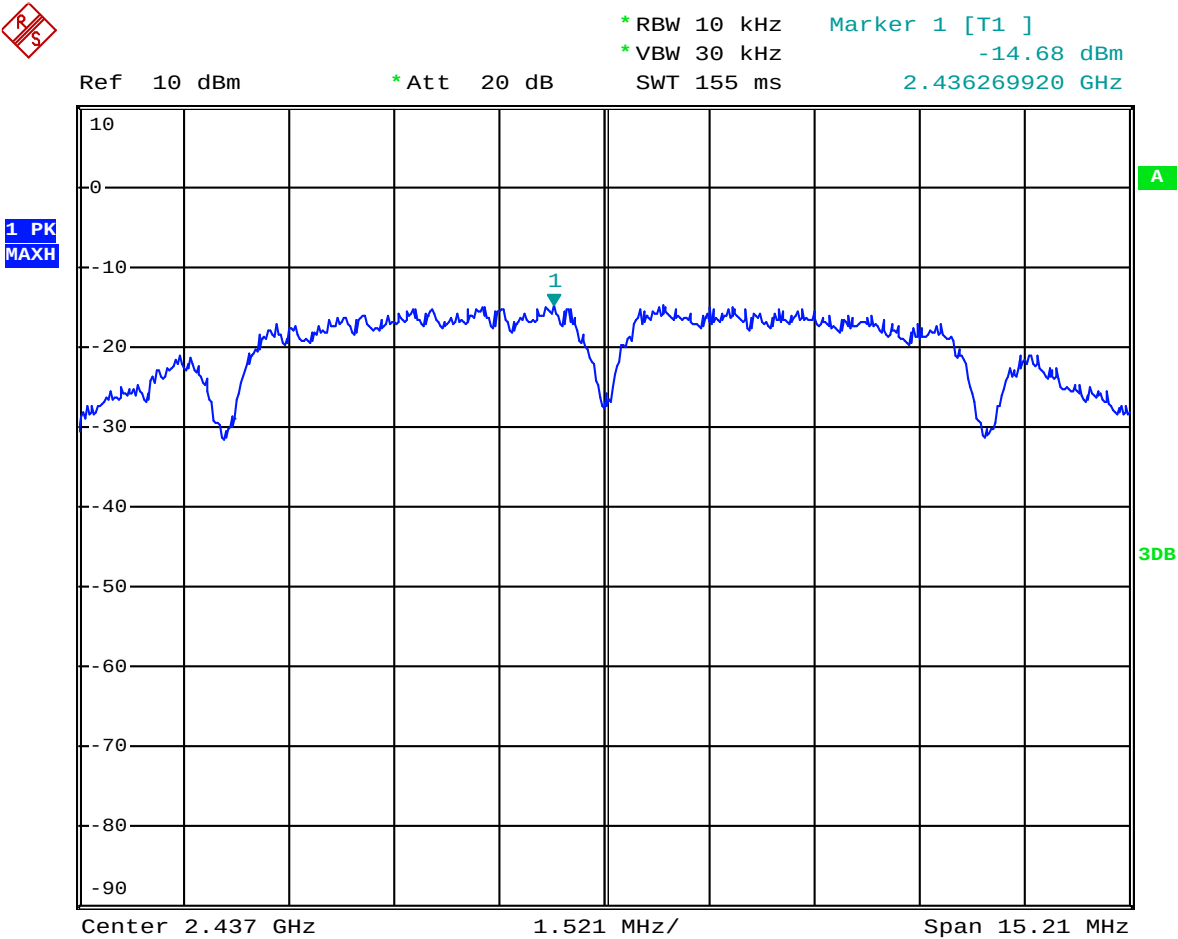


Date: 3.MAR.2026 13:56:59

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5. 802.11b at 1Mbps of CH6

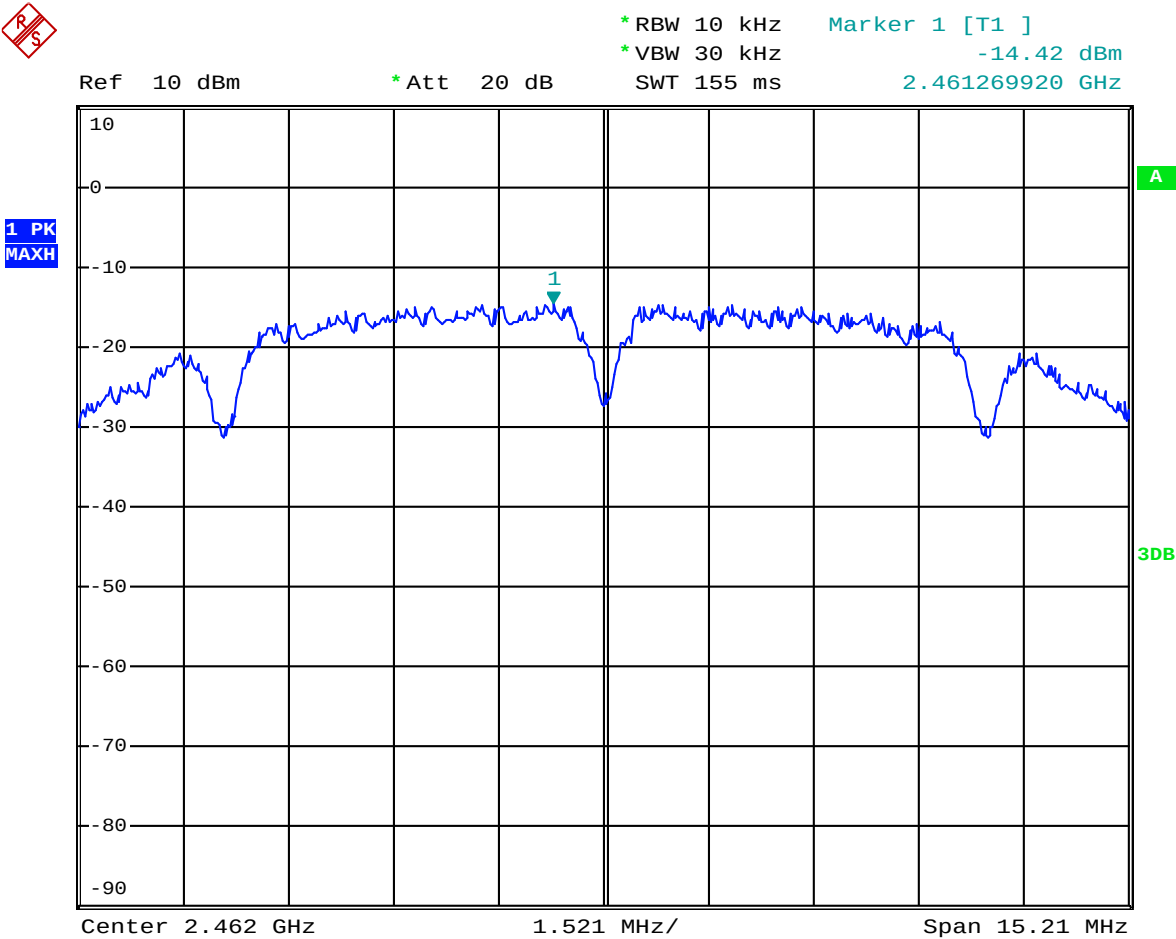


Date: 3.MAR.2026 14:01:30

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6. 802.11b at 1Mbps of CH11

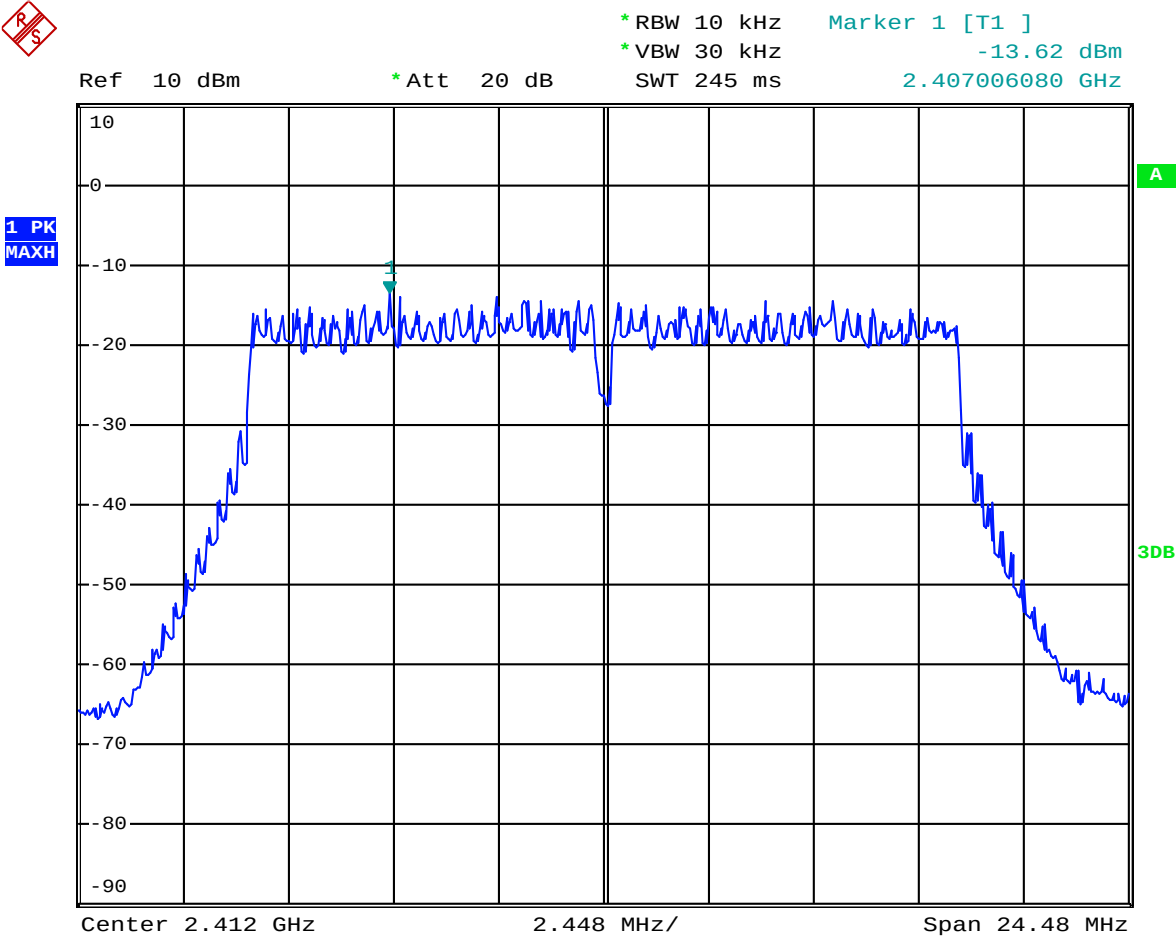


Date: 3.MAR.2026 14:04:20

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7. 802.11g at 6Mbps of CH1

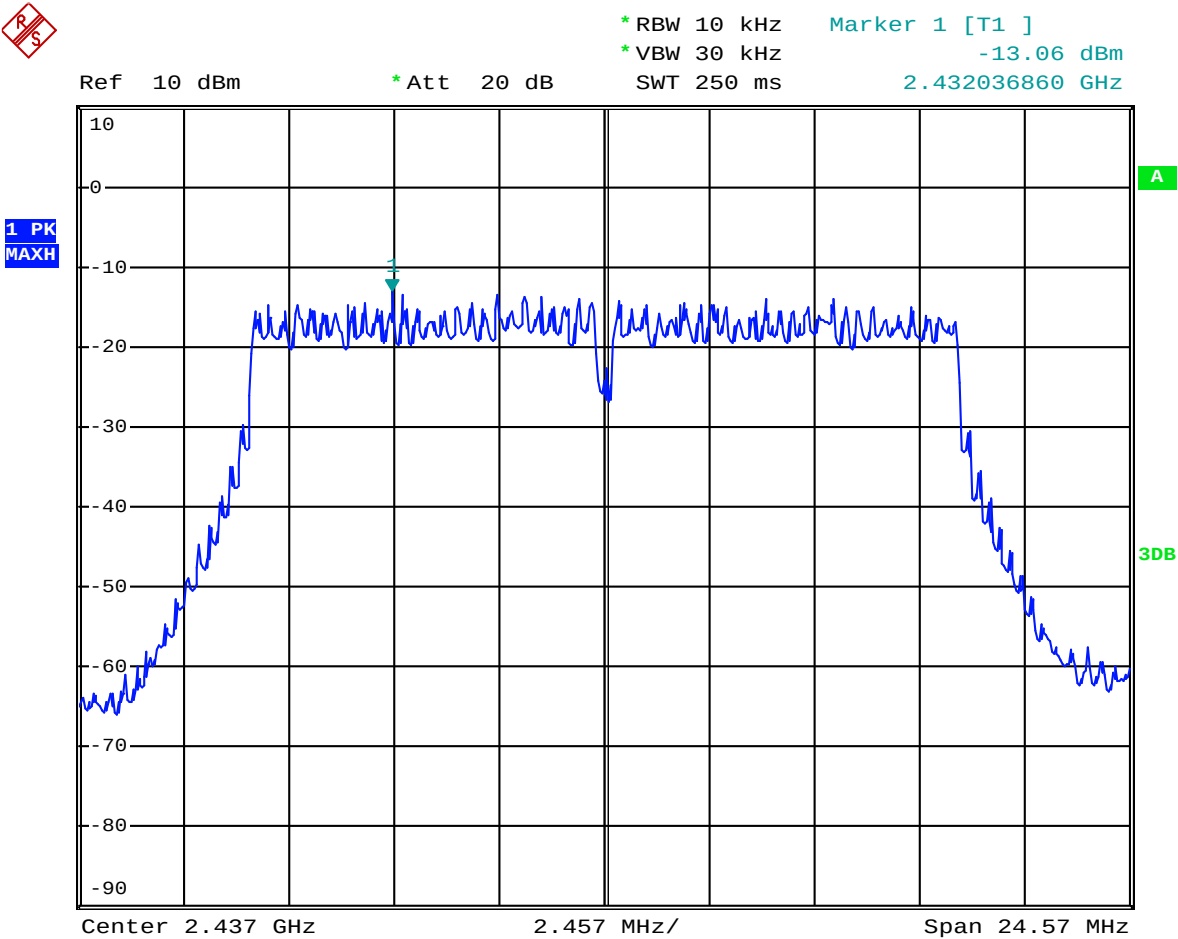


Date: 3.MAR.2026 14:23:18

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8. 802.11g at 6Mbps of CH6

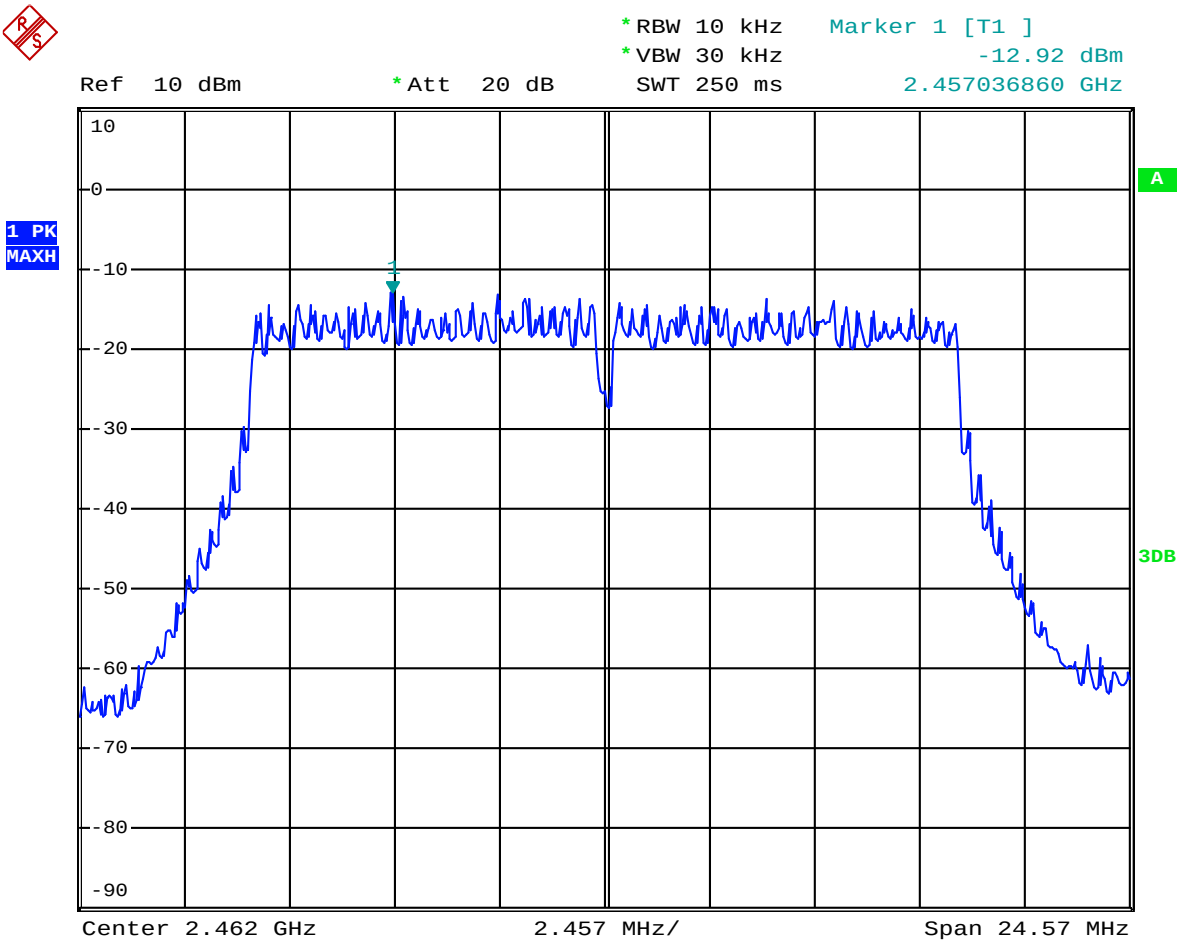


Date: 3.MAR.2026 14:25:05

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9. 802.11g at 6Mbps of CH11

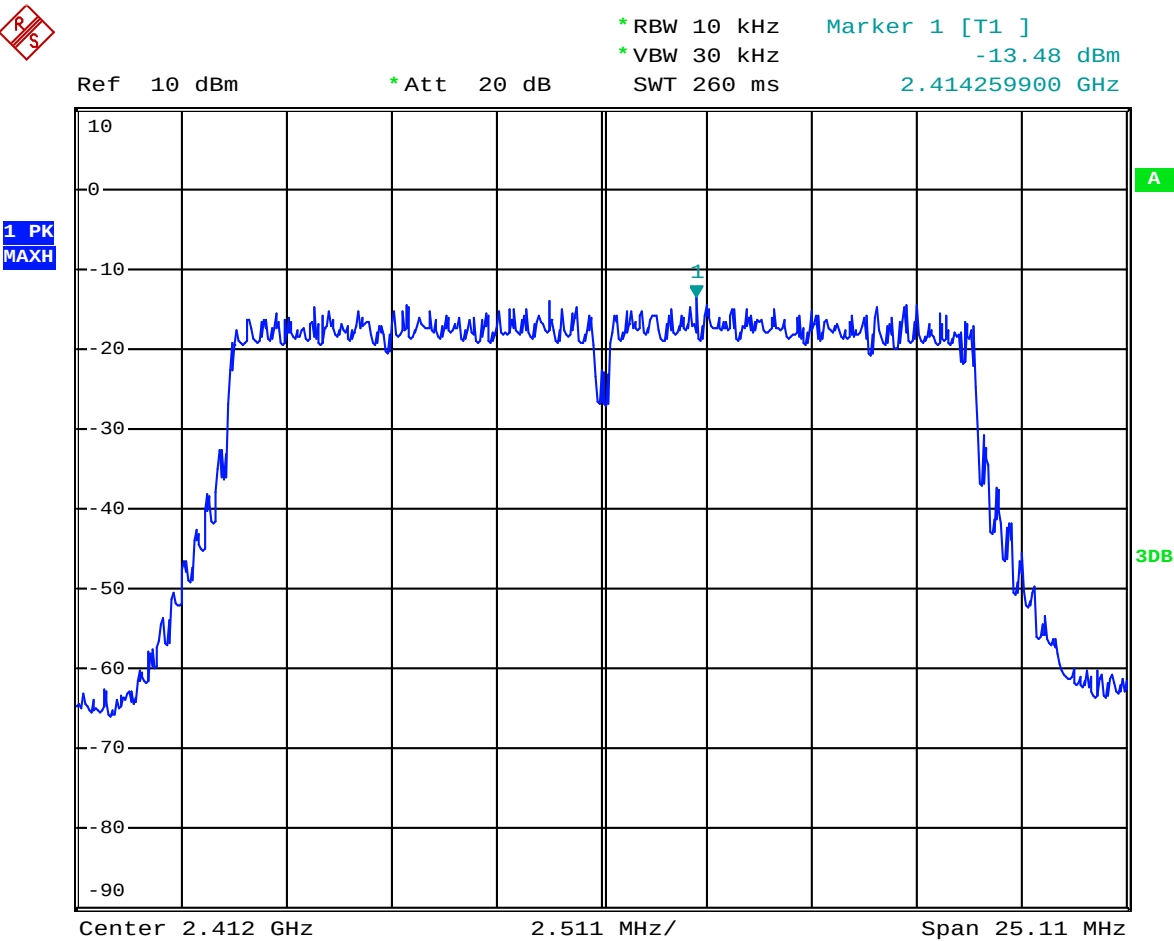


Date: 3.MAR.2026 14:26:16

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10. 802.11n at HT20 of CH01

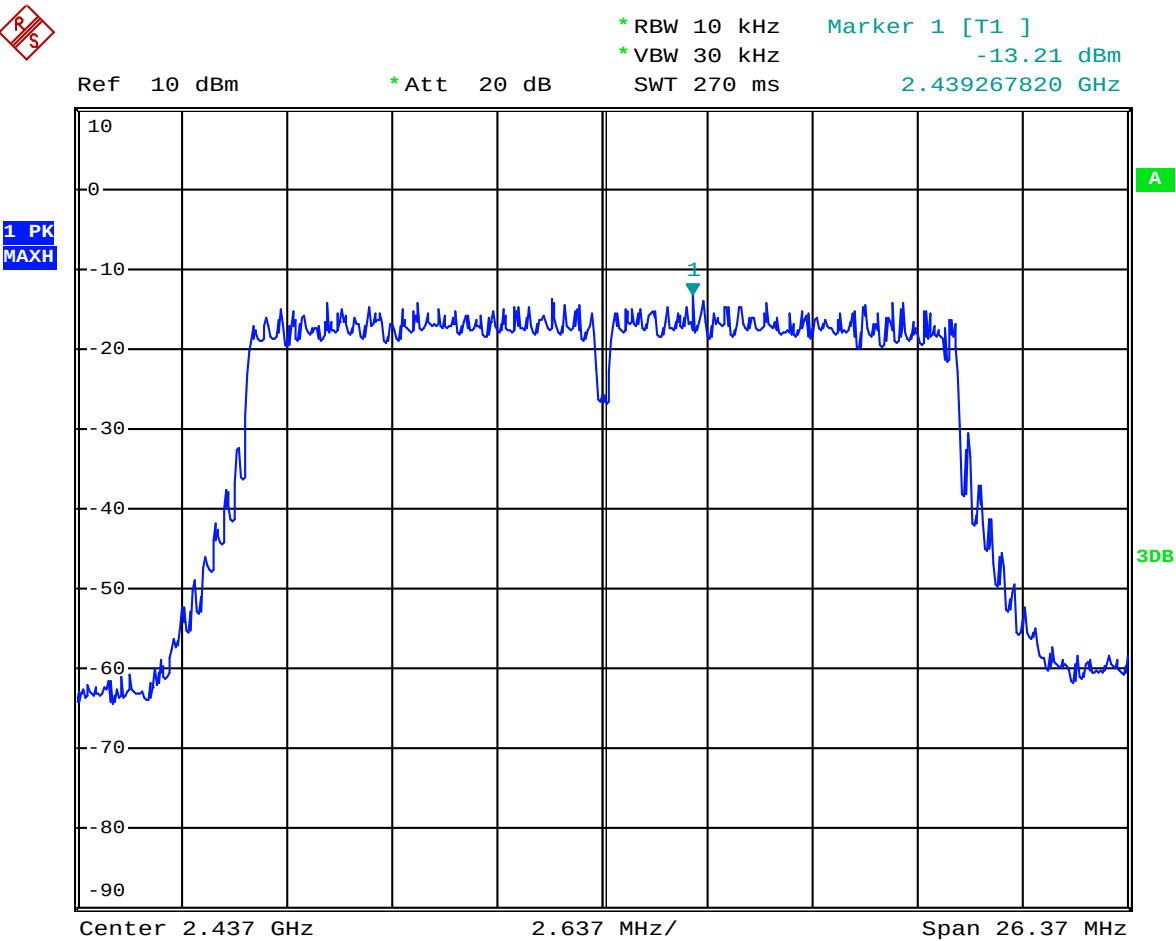


Date: 3.MAR.2026 14:36:42

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11. 802.11n at HT20 of CH06

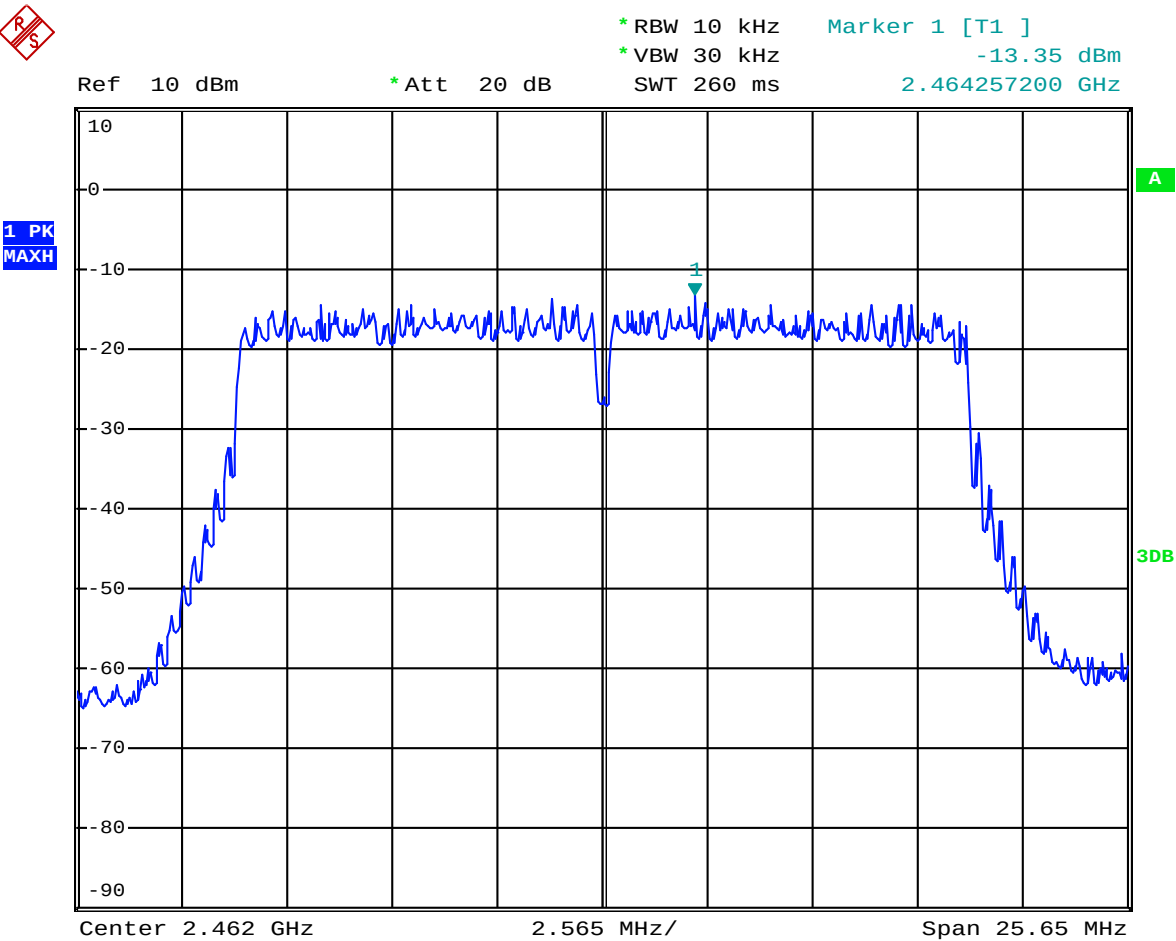


Date: 3.MAR.2026 14:35:02

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12. 802.11n at HT20 of CH11

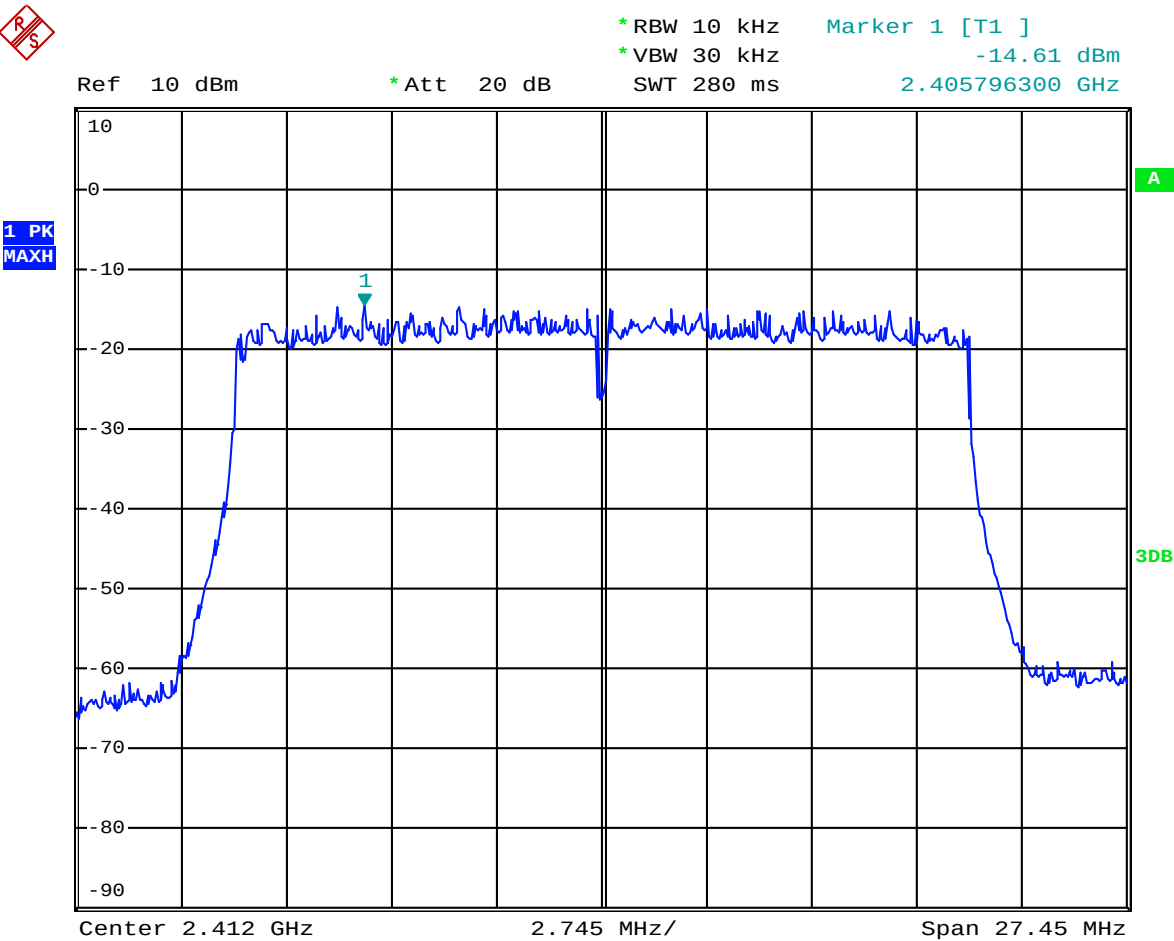


Date: 3.MAR.2026 14:30:23

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13. 802.11ax HEW20 of CH01

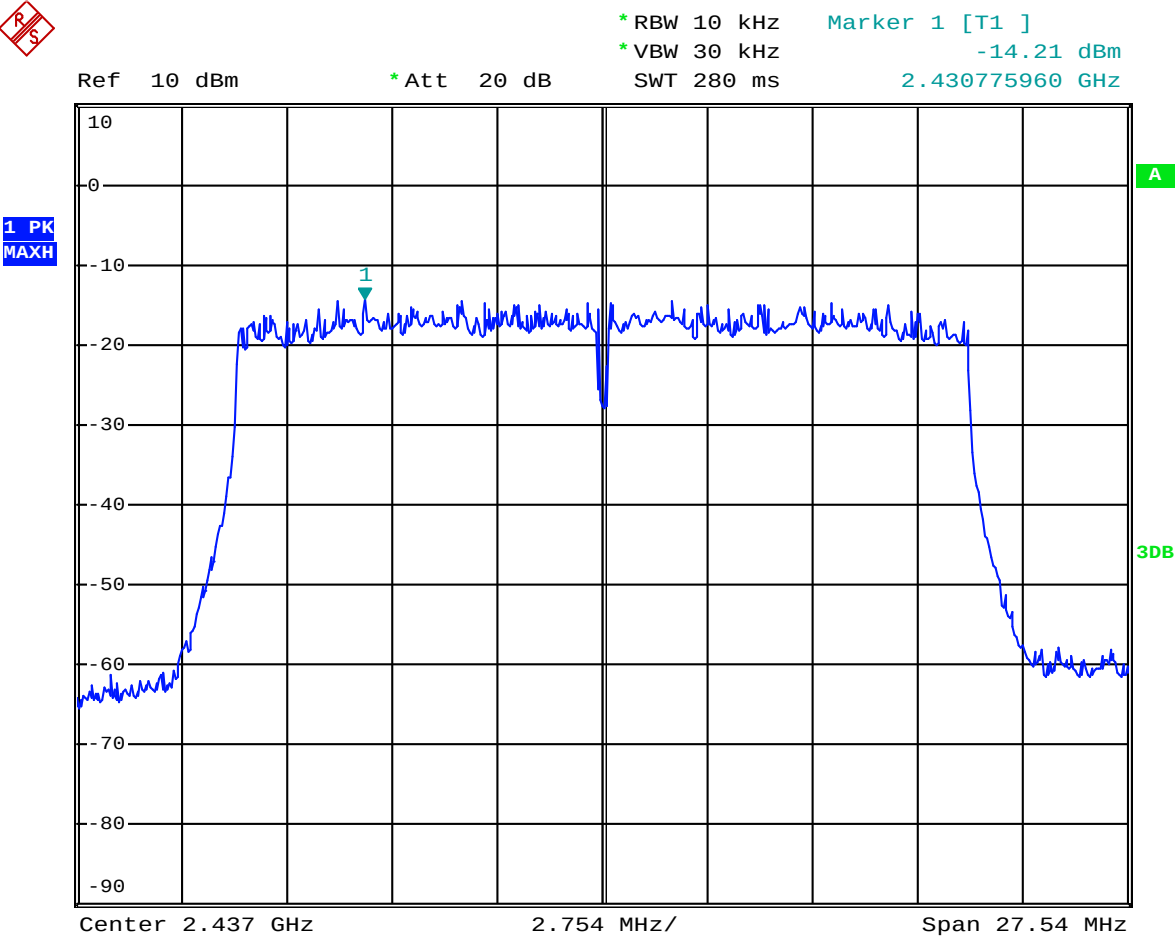


Date: 3.MAR.2026 14:40:58

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14. 802.11ax HEW20 of CH06

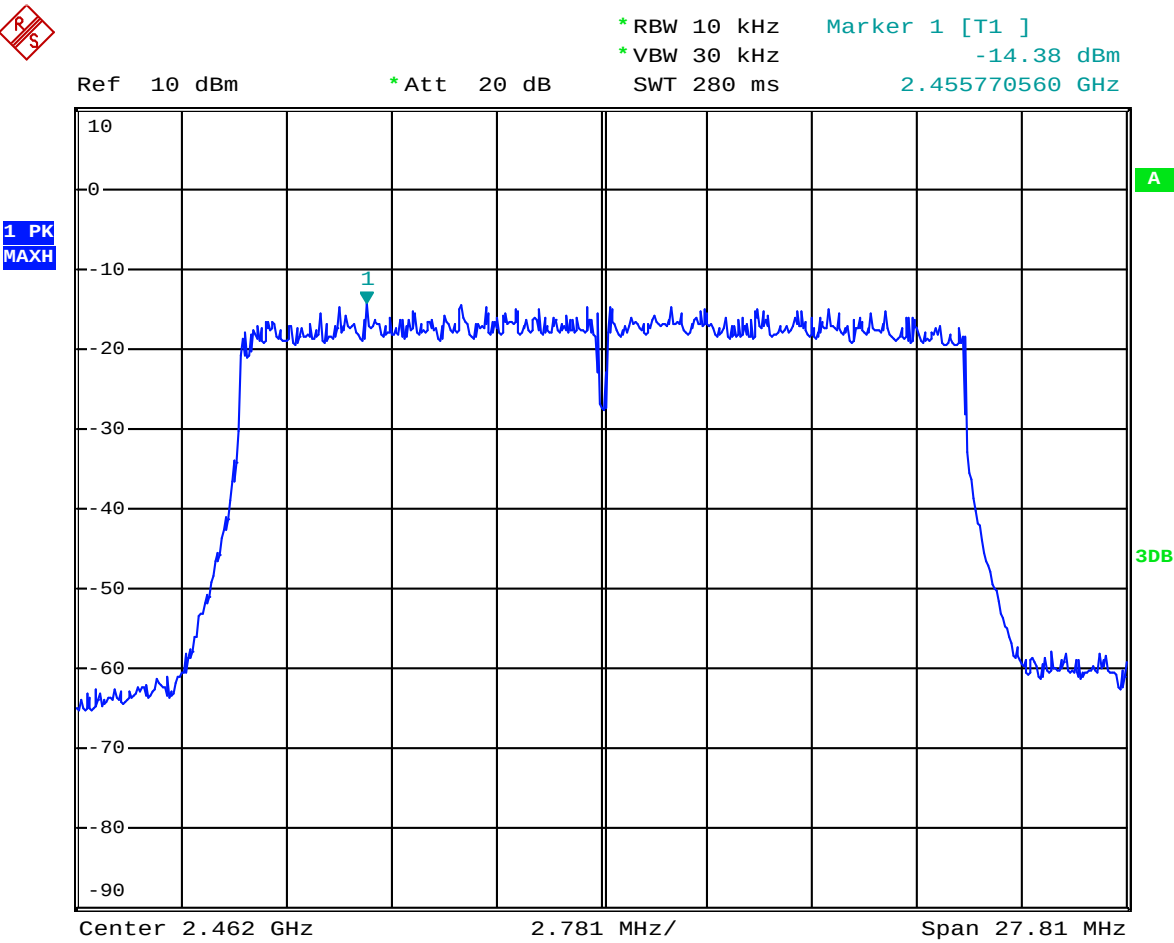


Date: 3.MAR.2026 14:45:02

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15. 802.11ax HEW20 of CH11



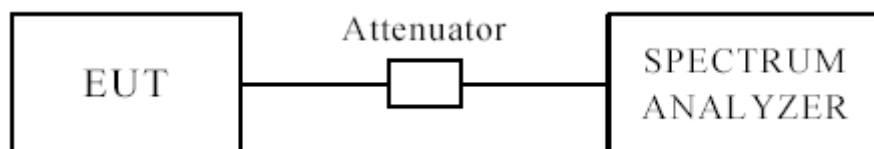
Date: 3.MAR.2026 14:48:44

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. for band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. J7 and J9 transmitting Simultaneously for RSE test

3. J7 and J9 were tested and J7 was the worst case for conducted measurement

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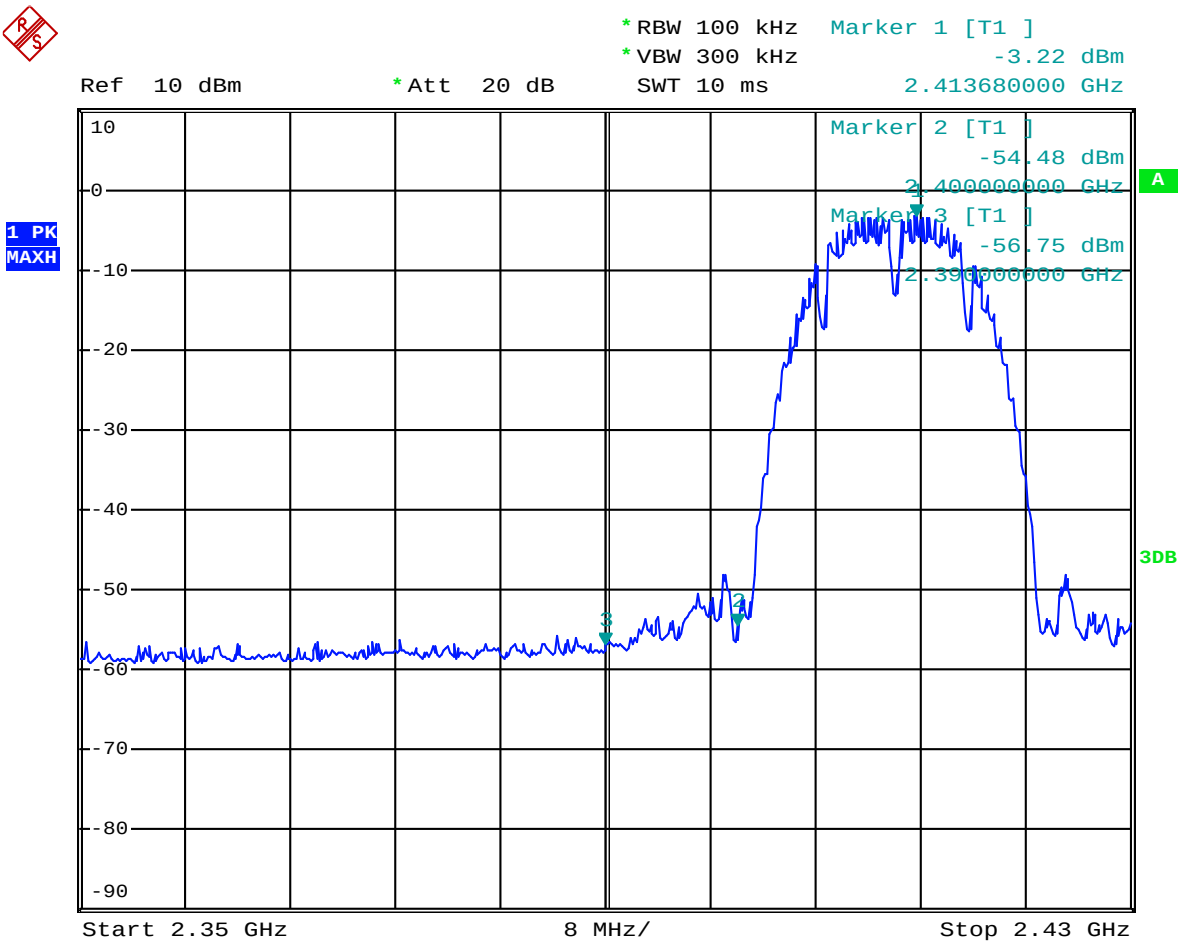
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:23:24

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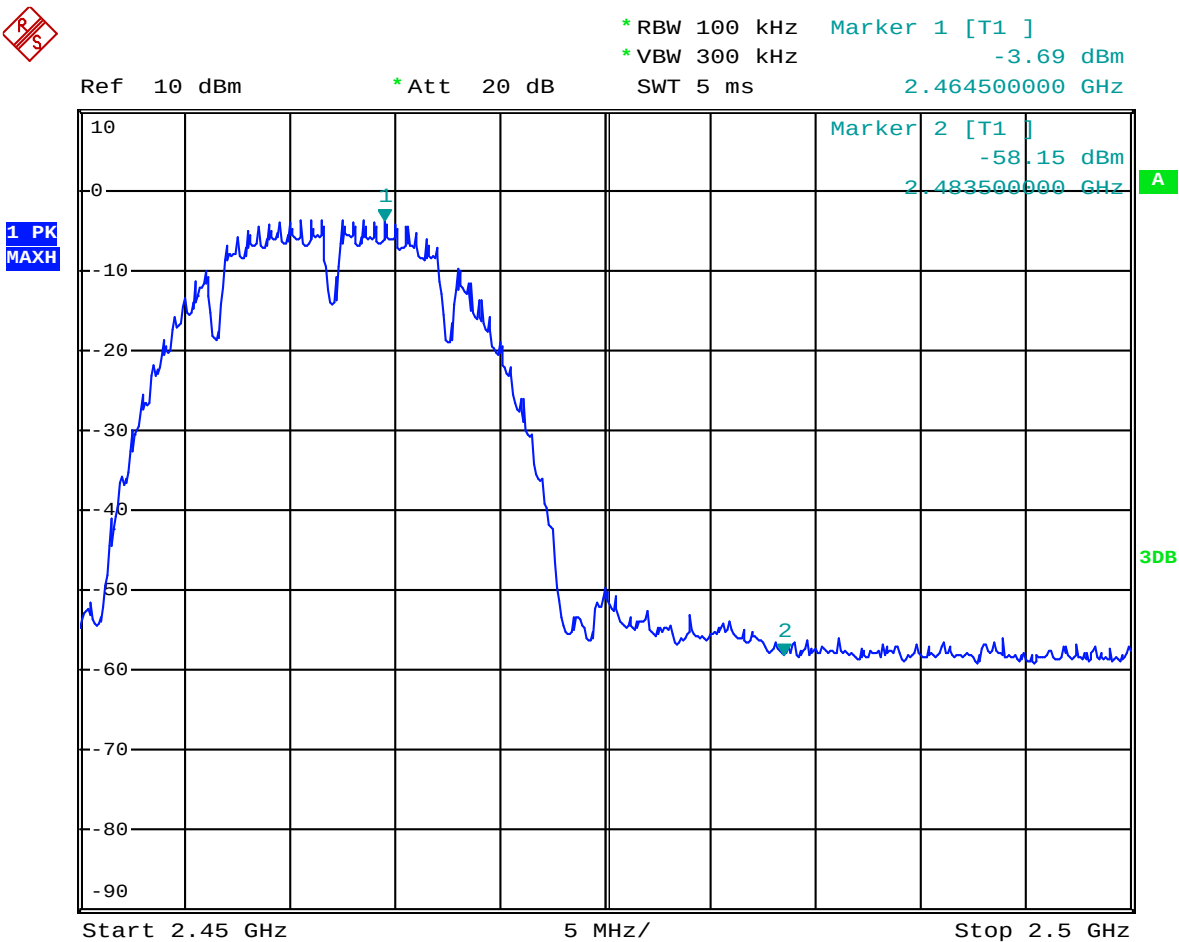


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:15:47

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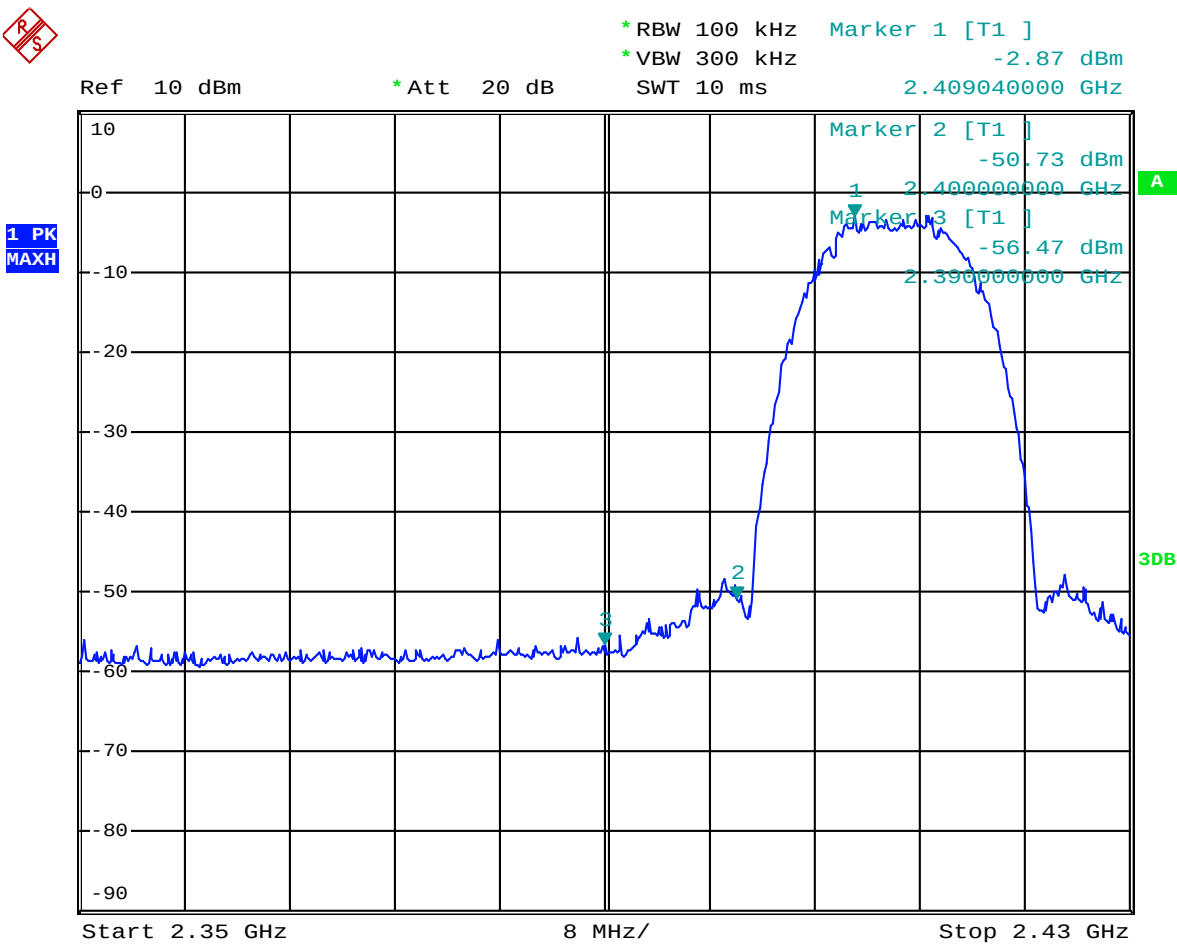


For 802.11b mode
CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:20:36

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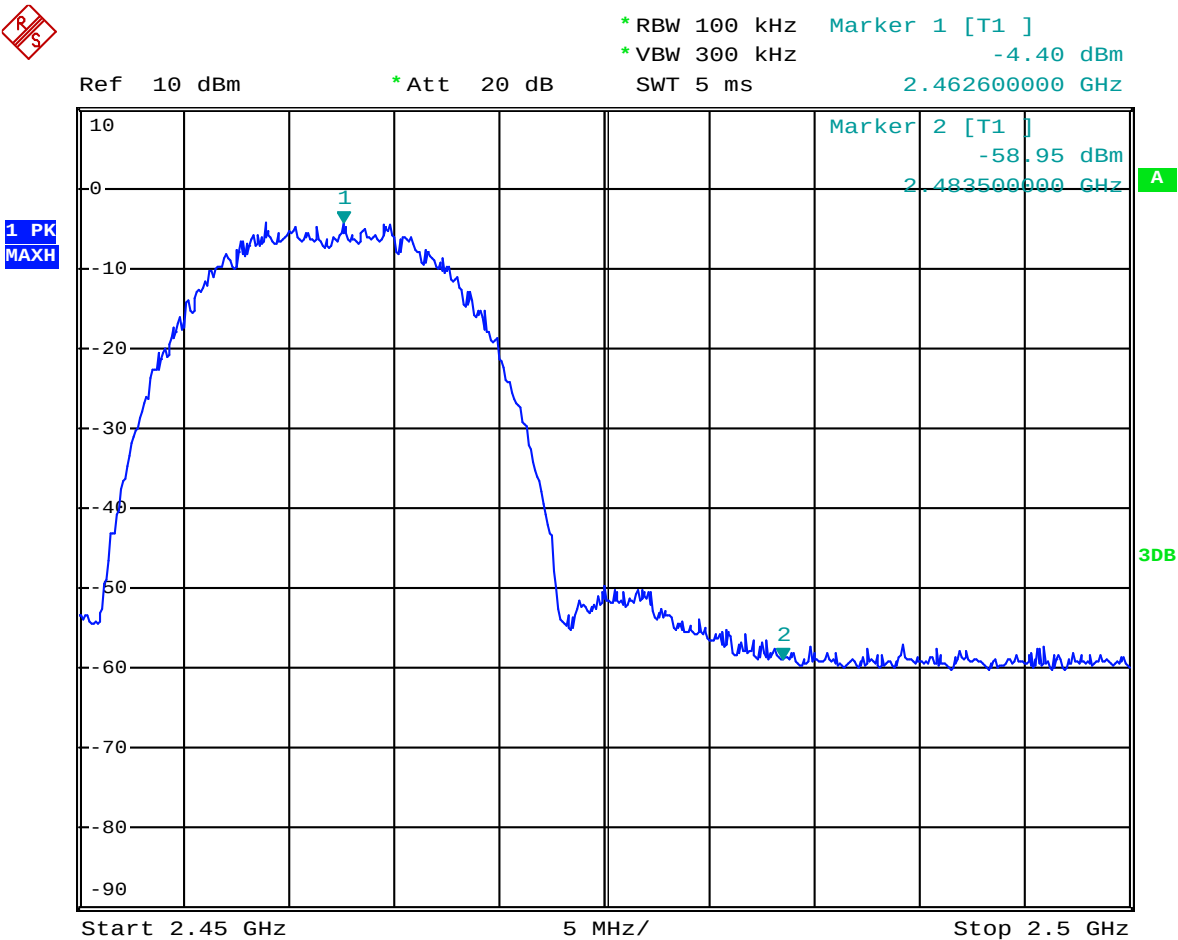


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:16:33

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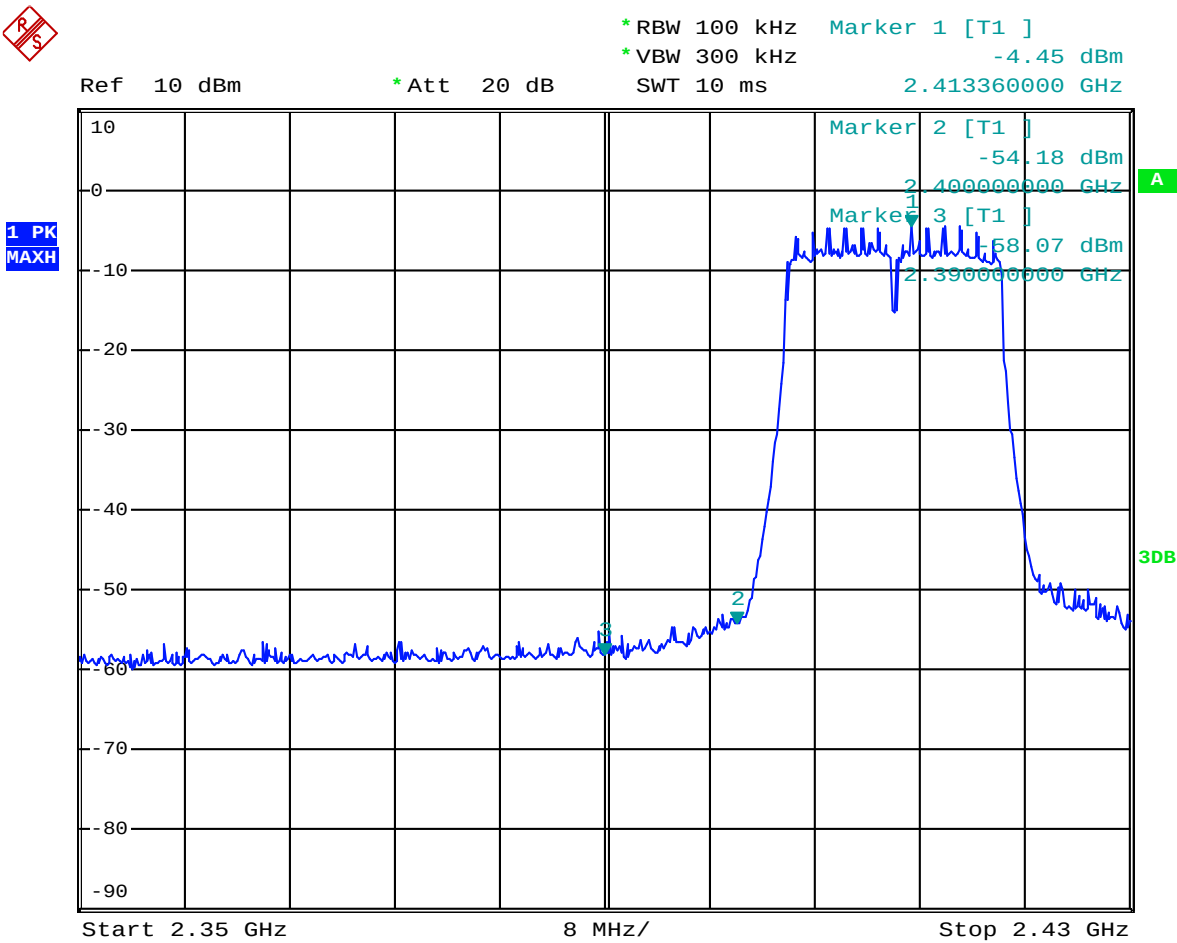
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:25:37

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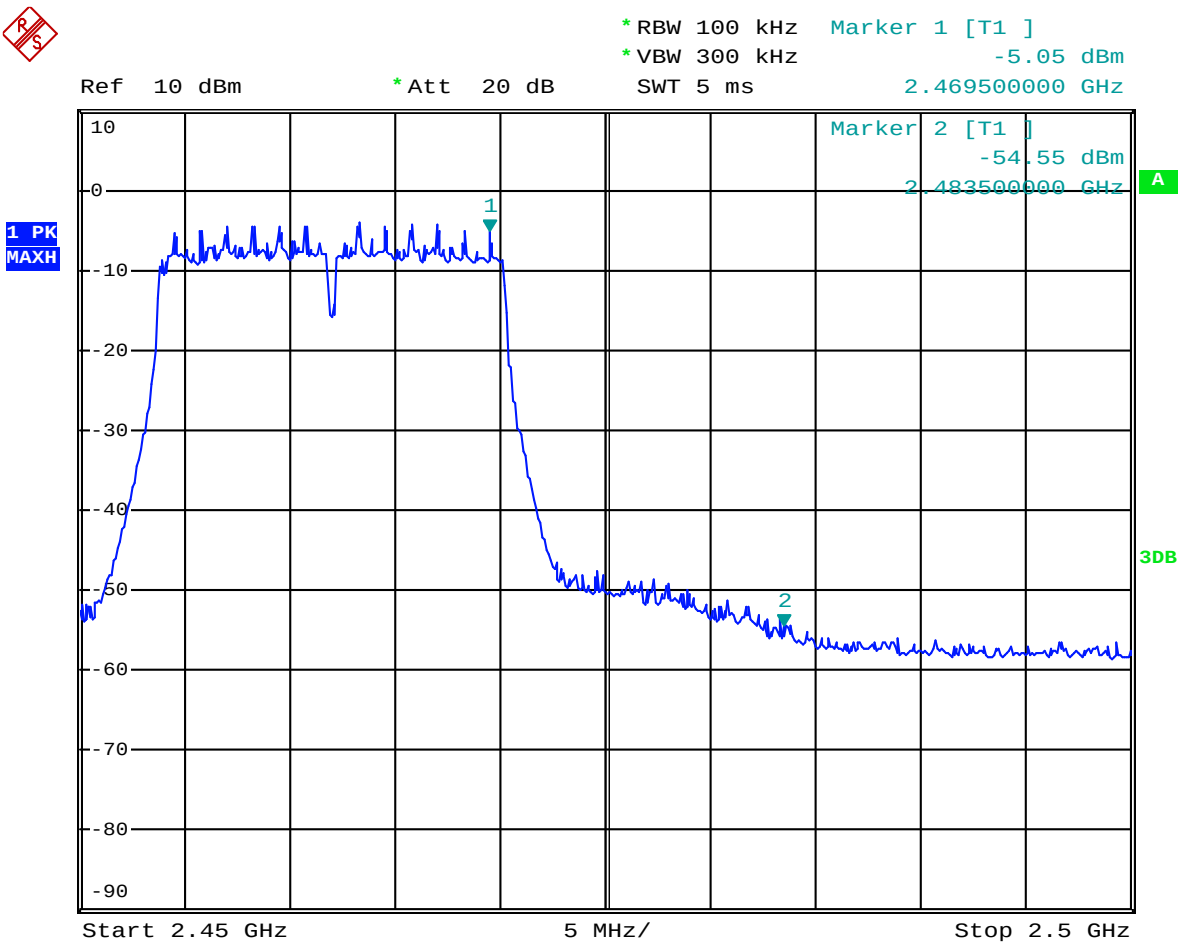


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:13:03

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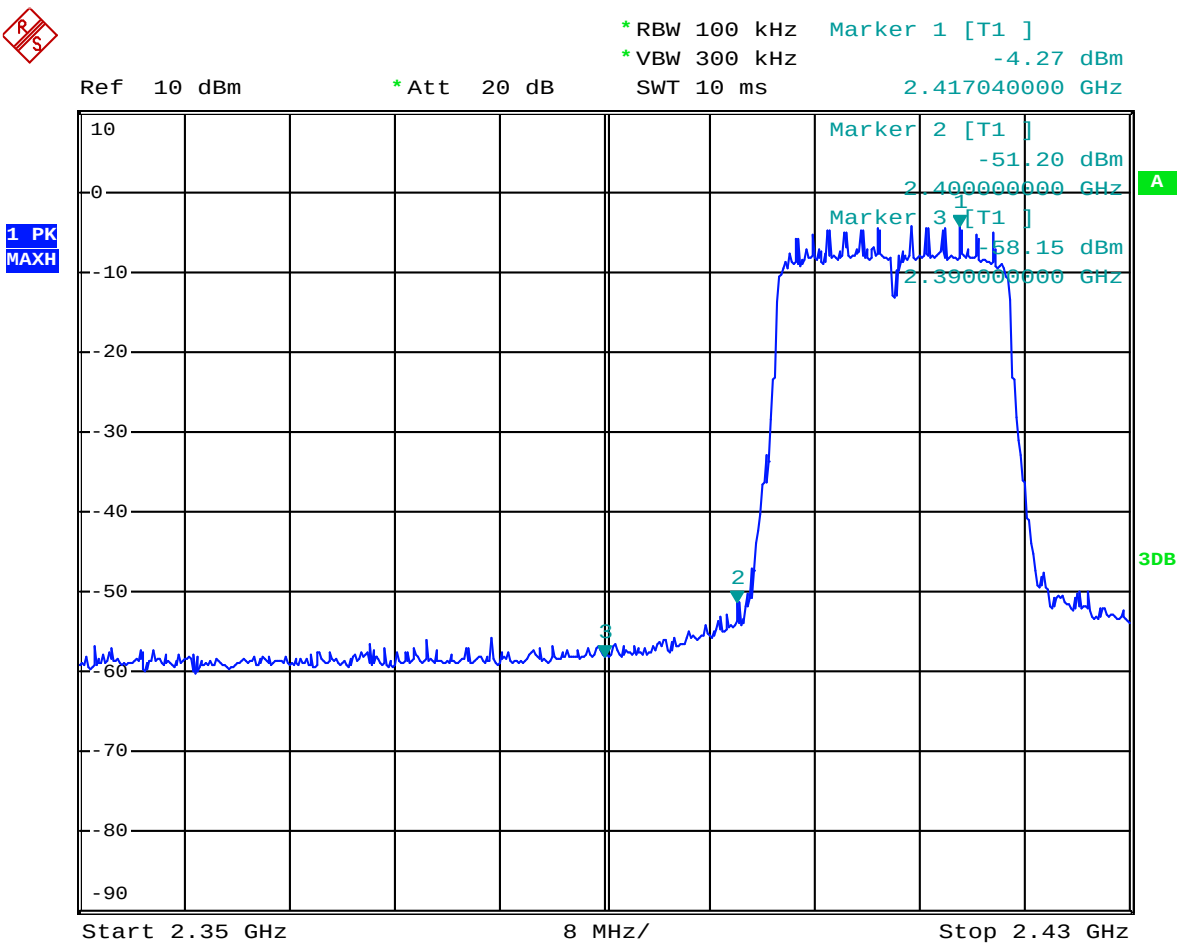
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:27:37

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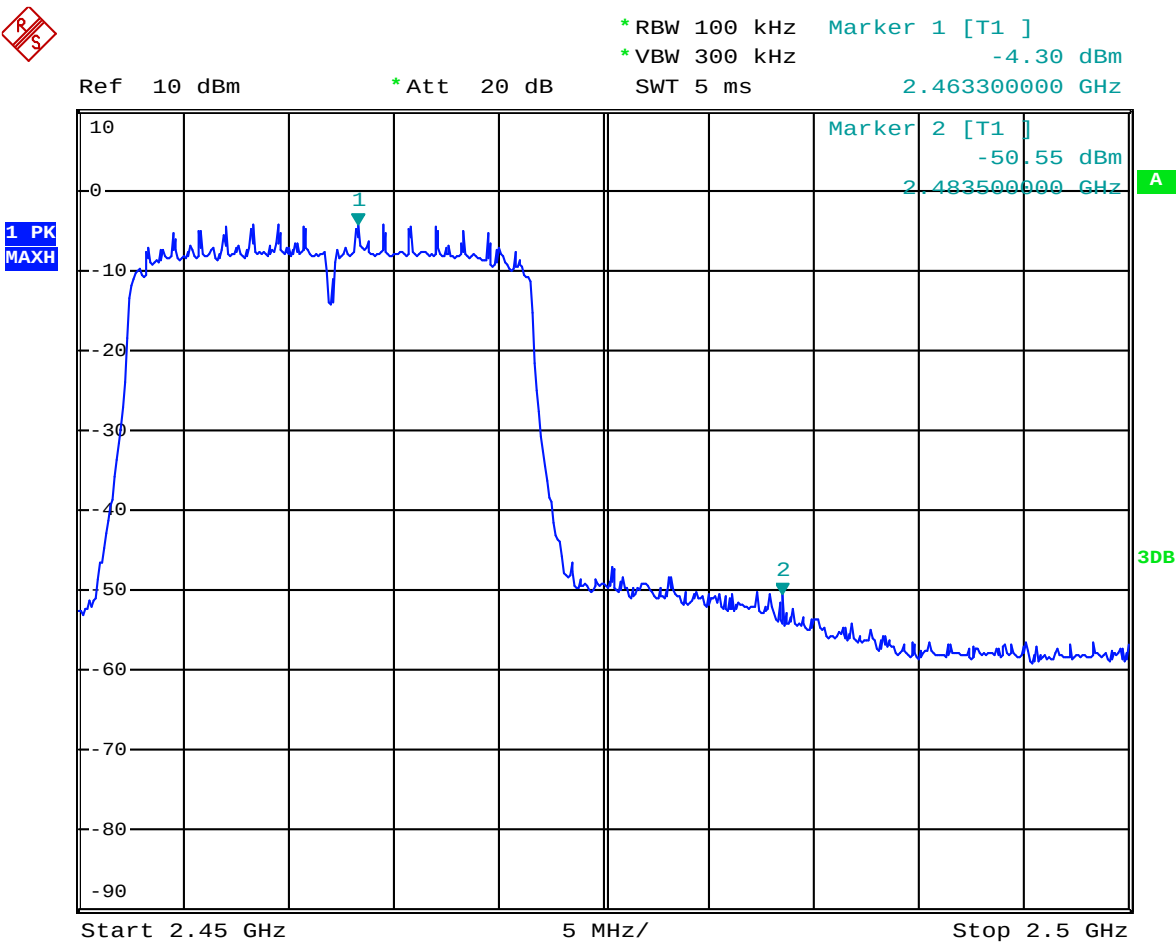


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:06:18

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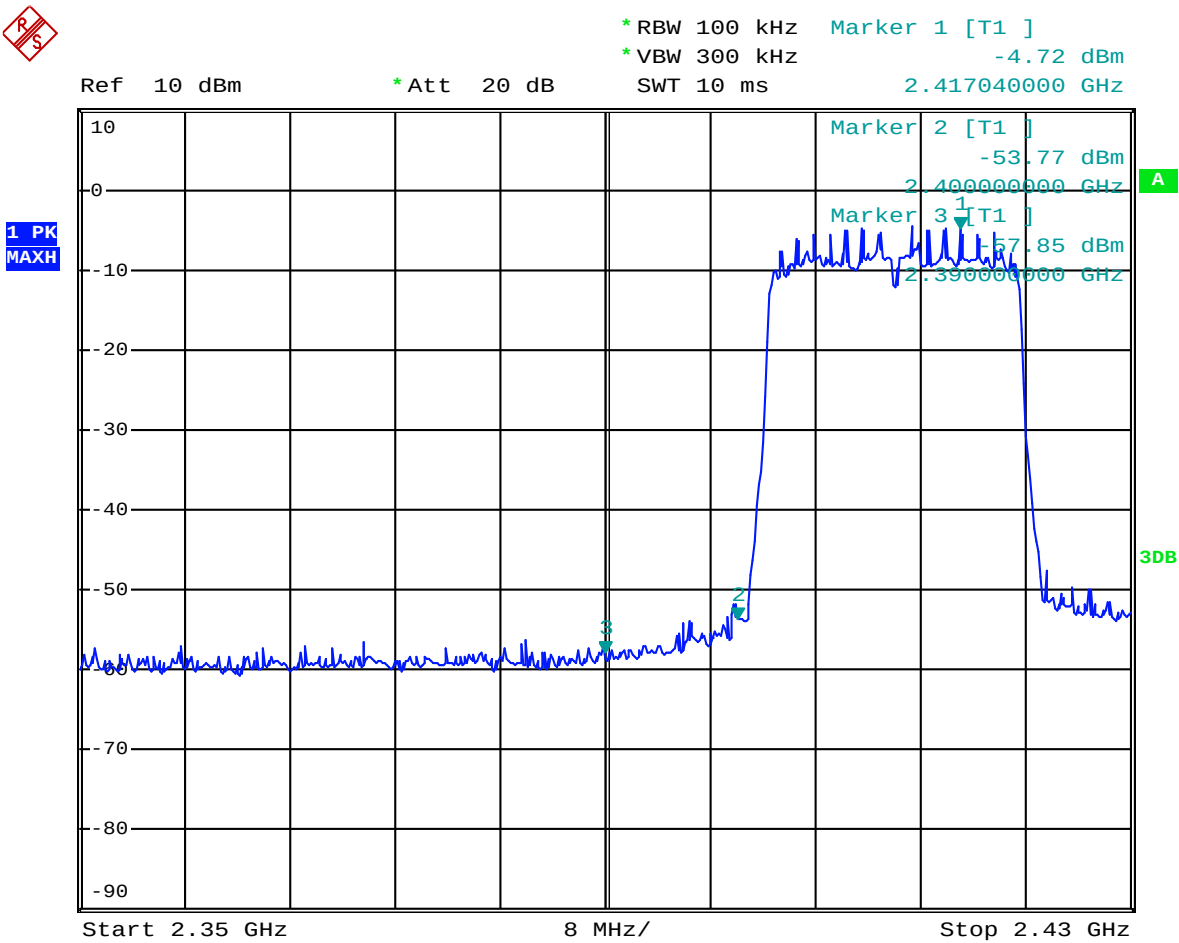
For 802.11ax (HEW20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:29:44

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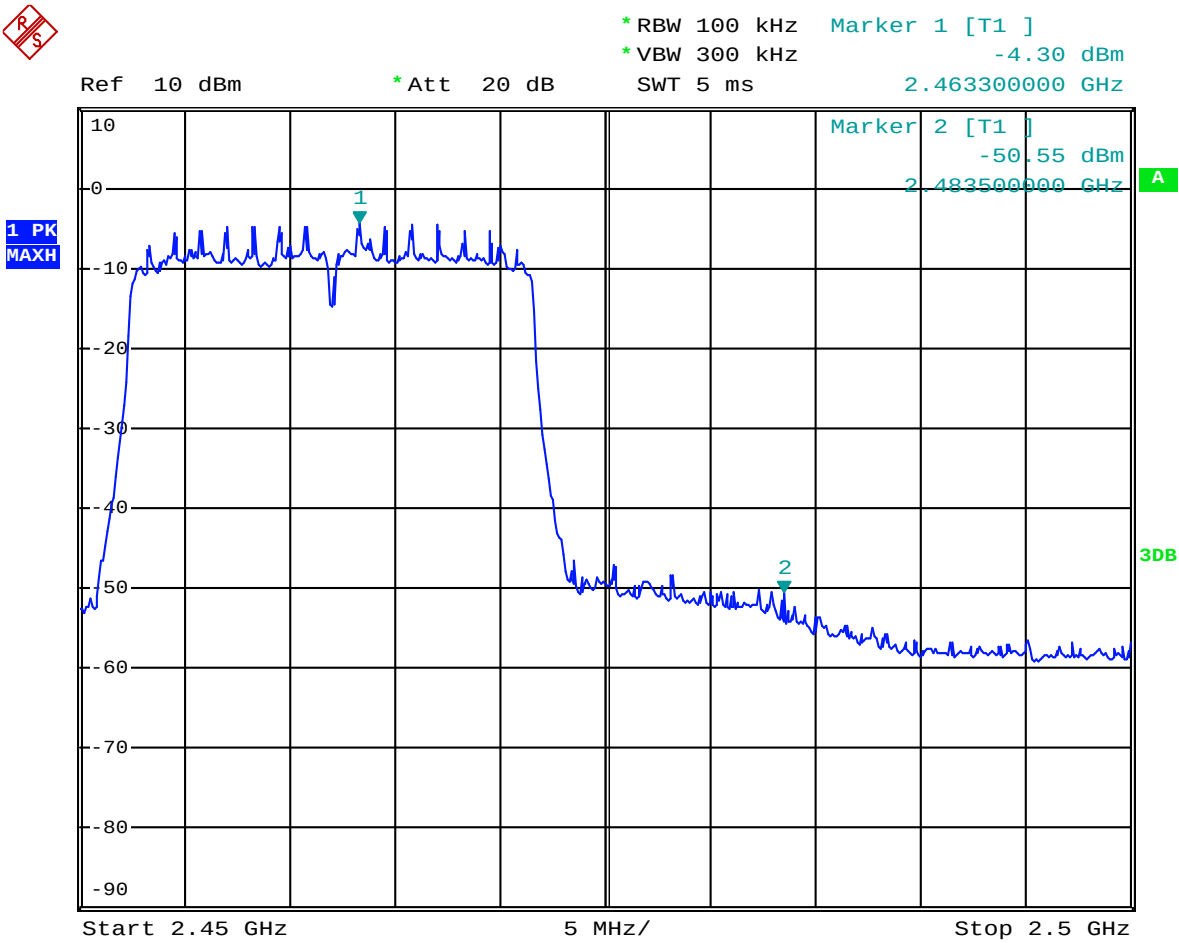


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Mobile Video Switching Box	Model	PR0529A
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 3.MAR.2026 15:05:04

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10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	39.70	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, Vertical				
2390	PK (dBμV/m)	42.55	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	40.59	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	38.01	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	41.17	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11g mode, Vertical				
2390	PK (dBμV/m)	43.96	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	39.10	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	38.56	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	43.17	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT20 mode, Vertical				
2390	PK (dBμV/m)	46.08	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20, High Channel, Horizontal				
2483.5	PK (dBμV/m)	41.69	Limit	74(dBμV/m)
	AV (dBμV/m)			54(dBμV/m)
802.11n HT20, High Channel, Vertical				
2483.5	PK (dBμV/m)	38.05	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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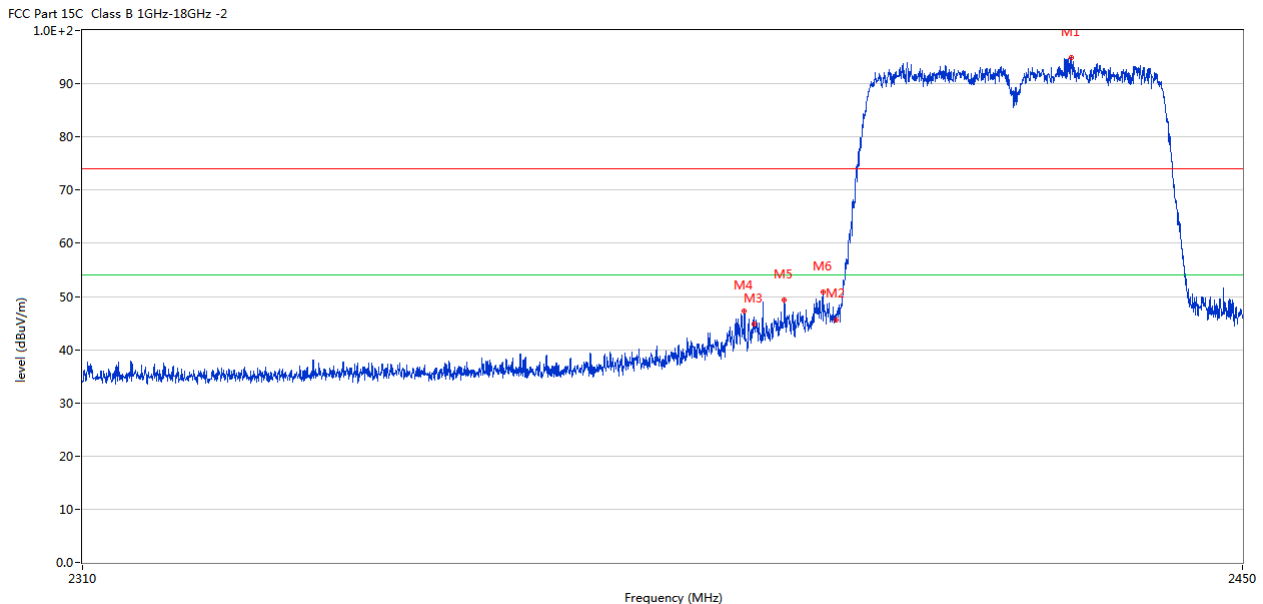
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10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11ax HEW20 mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	44.79	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11ax HEW20 mode, Low Channel, Vertical				
2390	PK (dBμV/m)	49.12	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

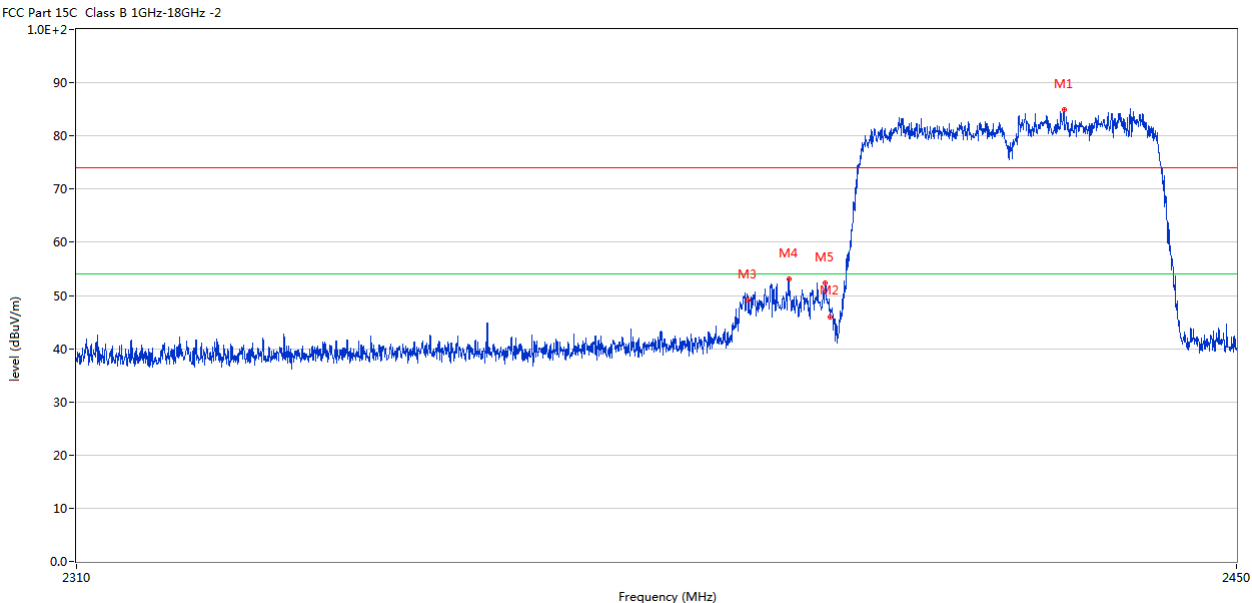


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2428.825	94.83	-3.57	74.0	20.83	Peak	272.00	100	Horizontal	N/A
2	2400.020	45.60	-3.57	74.0	-28.40	Peak	283.00	100	Horizontal	Pass
3	2390.080	44.79	-3.53	74.0	-29.21	Peak	283.00	100	Horizontal	Pass
4	2388.890	47.18	-3.53	74.0	-26.82	Peak	270.00	100	Horizontal	Pass
5	2393.720	49.31	-3.54	74.0	-24.69	Peak	286.00	100	Horizontal	Pass
6	2398.375	50.80	-3.56	74.0	-23.20	Peak	288.00	100	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2428.650	84.89	-3.57	74.0	10.89	Peak	174.00	100	Vertical	N/A
2	2400.020	45.90	-3.57	74.0	-28.10	Peak	284.00	100	Vertical	Pass
3	2390.045	49.12	-3.53	74.0	-24.88	Peak	284.00	100	Vertical	Pass
4	2394.980	53.05	-3.55	74.0	-20.95	Peak	281.00	100	Vertical	Pass
5	2399.460	52.26	-3.57	74.0	-21.74	Peak	284.00	100	Vertical	Pass

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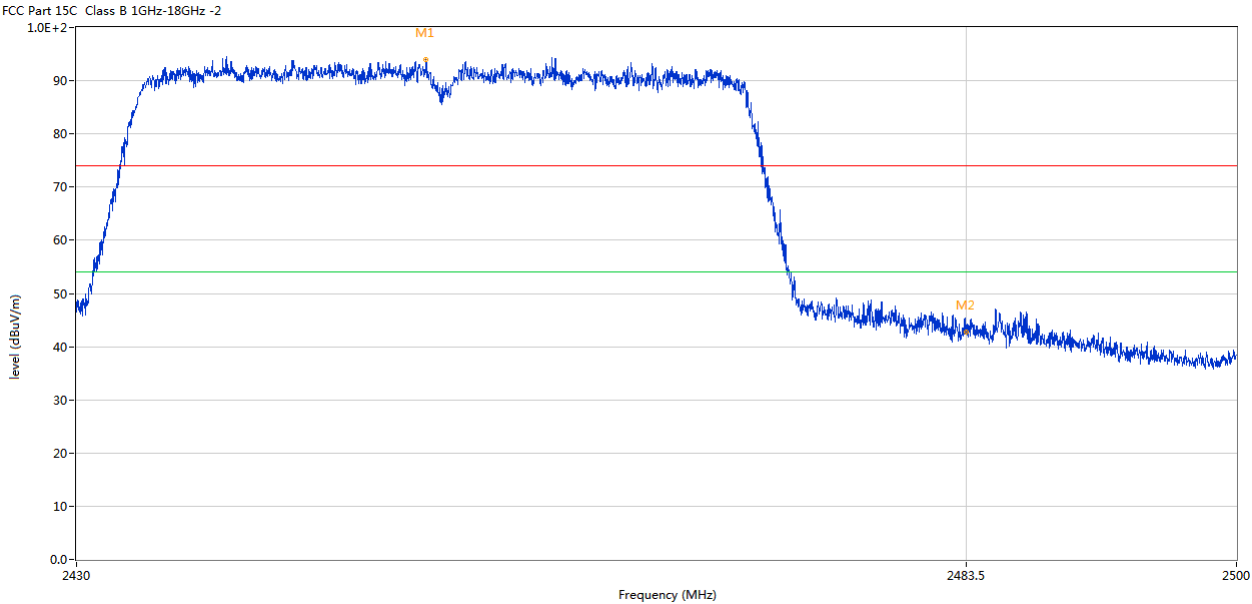
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10.5 Restricted band Measurement

EUT	Mobile Video Switching Box		Model	PR0529A
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11ax HEW20 mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	42.75	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11ax HEW20, High Channel, Vertical				
2483.5	PK (dBμV/m)	38.71	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

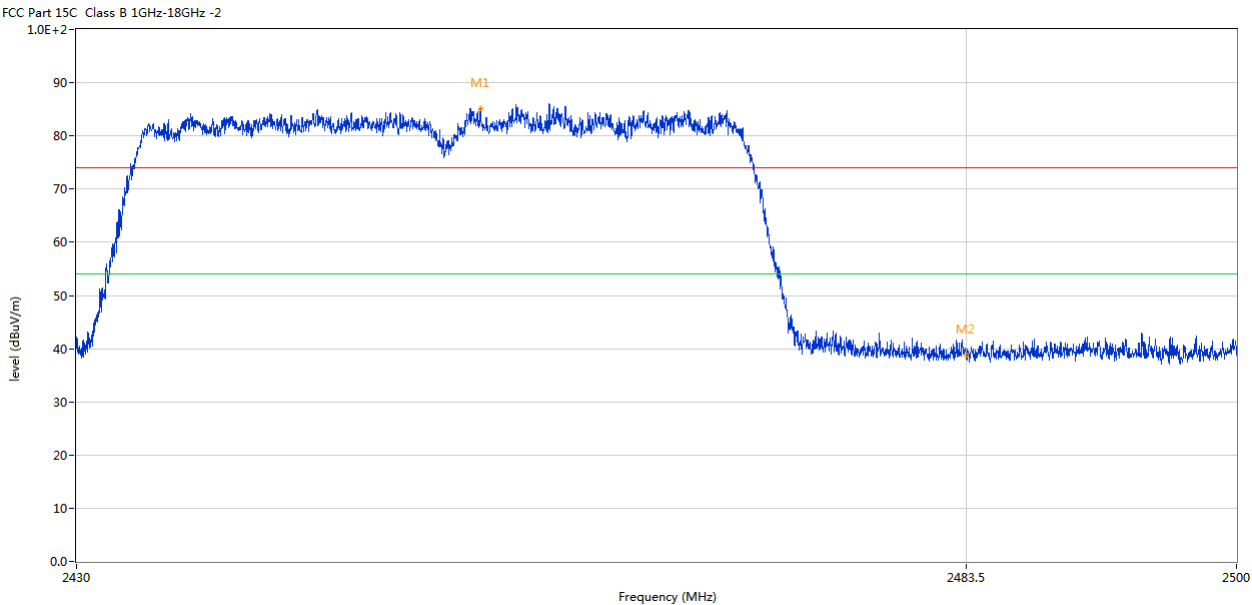


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2450.895	94.06	-3.57	74.0	20.06	Peak	90.00	100	Horizontal	N/A
2	2483.500	42.75	-3.57	74.0	-31.25	Peak	252.17	100	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2454.150	85.13	-3.57	74.0	11.13	Peak	175.00	100	Vertical	N/A
2	2483.500	38.71	-3.57	74.0	-35.29	Peak	277.00	100	Vertical	Pass

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Two Dipole antenna with reverse polarity antenna connector. The gain of the antennas is 7.40dBi for both Main Antenna (J7) and Aux Antenna (J9) in the 2.4G Band (Get from the antenna specification provided the manufacturer)

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12.0 FCC ID Label

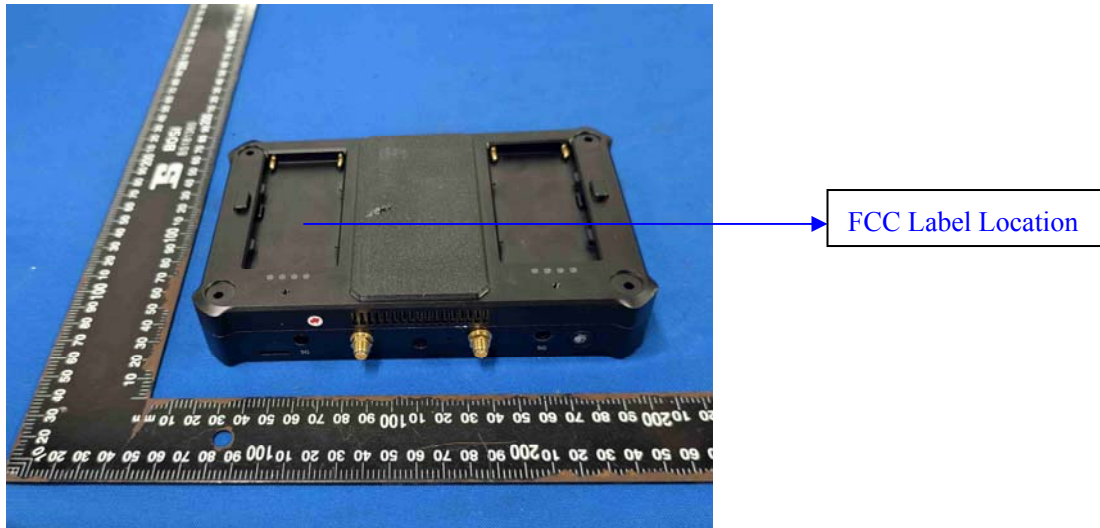
FCC ID: 2AP6W-DIRECTOR55290

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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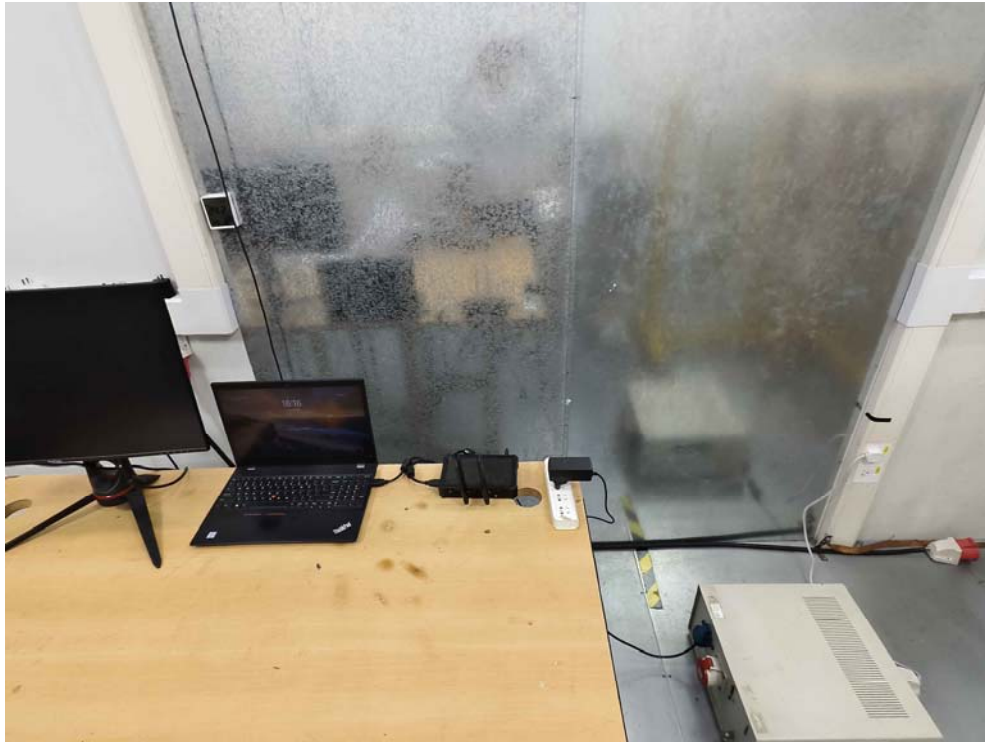
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13.0 Photo of testing

Conducted Emission Test Setup:



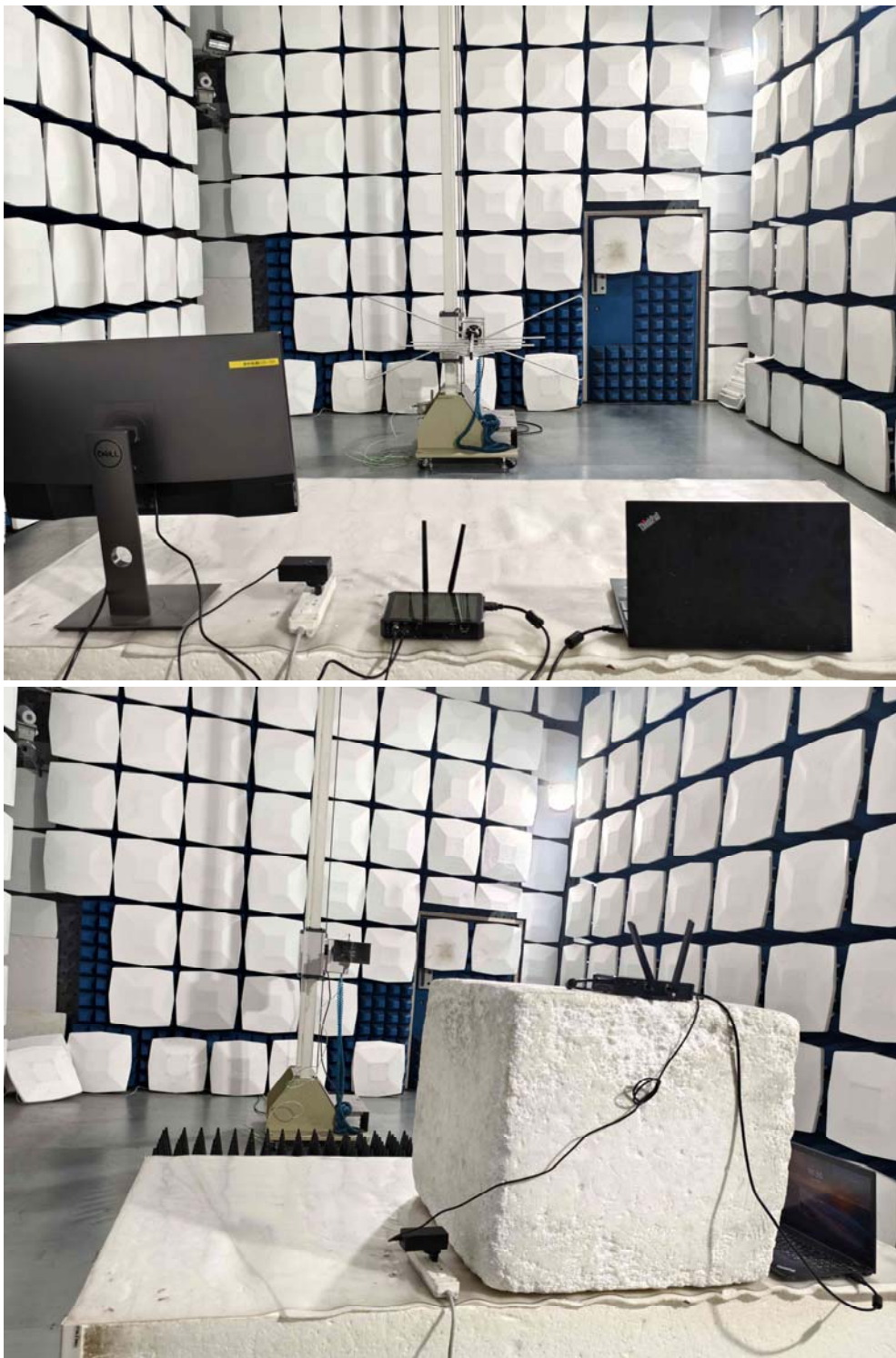
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Radiated Emission Test Setup:



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RF test view



Photographs – EUT

Please refer test report TWN2601525-01E

End of the report

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