



Report No.: TW2202035-01E File reference No.: 2022-02-25

Applicant: YAU WAI TRADING

Product: MEDIA PLAYER

Model No.: EVPAD-6P, EVPAD-6S, EVPAD-8P, LEBOXTV-X,

LEBOXTV-X PRO, LEBOXTV-Y

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 long

Terry Tang

Manager

Dated: February 25, 2022

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

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

## 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.

## Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada 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

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# **Test Report Conclusion**

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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 Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: YAU WAI TRADING

Address: WORKSHOP NO.14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO.32 TAI YAU

STREET KOWLOON, HONG KONG

Telephone: 85263004245

Fax: --

#### 1.3 Description of EUT

Product: MEDIA PLAYER

Manufacturer: YAU WAI TRADING

Address: WORKSHOP NO.14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO.32

TAI YAU STREET KOWLOON, HONG KONG

Trademark: N/A

Model Number: EVPAD-6P

Additional Model Number: EVPAD-6S, EVPAD-8P, LEBOXTV-X, LEBOXTV-X PRO, LEBOXTV-Y

Hardware Version: V2.1 Software Version: 10.0

Serial No.: 00226E30F4BC Rating: DC5V, 2A

Power Supply: Model: MDL010-0502000UU; Input: 100-240V~, 50/60Hz, 0.45A;

Output: DC5V, 2A

Alternative Power Model: MDL010Z-0502000; Input: 100-240V~, 50/60Hz, 0.35A;

Supply: Output: DC5V, 2A

Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)

The report refers only to the sample tested and does not apply to the bulk.

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Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz;

IEEE 802.11n HT40: 2422-2452MHz

Channel Spacing 5MHz for IEEE 802.11b/g/n (HT20, HT40)

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/HT40: mcs0-mcs7

Frequency Selection By software

Channel Number IEEE 802.11b/g/n (HT20)/ax (HEW20): 11 Channels;

IEEE 802.11n (HT40): 7 Channels;

Antenna: Two Integral antennas. The gain of the antennas is 2.22dBi maximum for each

one. (Get from the antenna specification provided the applicant)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2022-02-16 to 2022-02-25

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%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

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	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	ANT01060660	2021-07-02	2024-07-02
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-02
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-14	2023-01-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

#### 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) 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 802.11n (HT40) mode

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

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: mcs0 data rate (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

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph15.207	<b>Conducted Emission Test</b>	Pass	Complies
	Spectrum bandwidth of a	Pass	Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit	<b>Division Multiplex System</b>		
raragraph 15.247(a)(2) Limit	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output	Pass	
15.247(b)	power		Complies
13.247(0)	Limit: max. 30dBm		
FCC Part 15, Paragraph	Transmitter Radiated	Pass	Complies
15.109,15.205 & 15.209	Emission		
	Limit: Table 15.209		
FCC Part 15, Paragraph	<b>Power Spectral Density</b>	Pass	Complies
15.247(e)	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	Pass	Complies
15.247(d)	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	<b>Table 15.209</b>		

#### 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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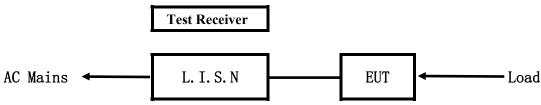
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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

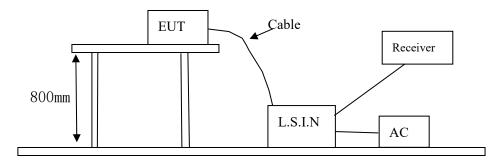


EUT: Equipment Under Test

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
		EVPAD-6P, EVPAD-6S, EVPAD-8P,	
MEDIA PLAYER	YAU WAI TRADING	DING LEBOXTV –X, LEBOXTV-X PRO, 2A	
		LEBOXTV-Y	

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- 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	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	5 .0		

Notes:

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

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Only the worst case was recorded in the test report.

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

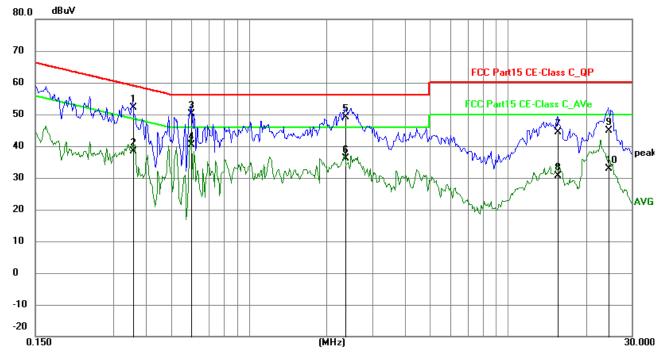
**EUT Operating Environment** 

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	0.3567	42.35	9.76	52.11	58.80	-6.69	QP	Р
2	0.3567	28.65	9.76	38.41	48.80	-10.39	AVG	Р
3	0.5985	40.35	9.77	50.12	56.00	-5.88	QP	Р
4	0.5985	30.64	9.77	40.41	46.00	-5.59	AVG	Р
5	2.3574	39.35	9.82	49.17	56.00	-6.83	QP	Р
6	2.3574	26.34	9.82	36.16	46.00	-9.84	AVG	Р
7	15.5307	33.90	10.41	44.31	60.00	-15.69	P Q	Р
8	15.5307	20.25	10.41	30.66	50.00	-19.34	AVG	Р
9	24.4422	33.94	10.96	44.90	60.00	-15.10	QP	Р
10	24.4422	21.99	10.96	32.95	50.00	-17.05	AVG	Р

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

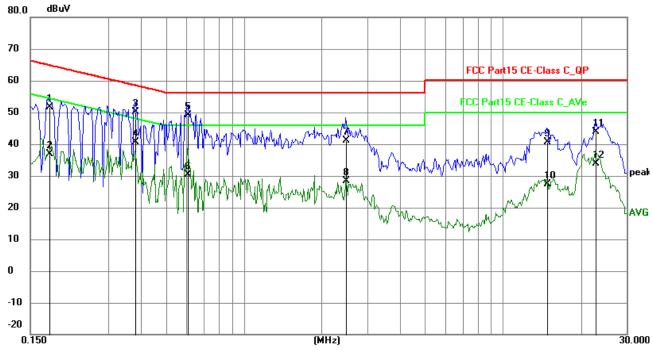
**EUT Operating Environment** 

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

**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	0.1773	41.90	9.77	51.67	64.61	-12.94	QP	Р
2	0.1773	27.20	9.77	36.97	54.61	-17.64	AVG	Р
3	0.3800	40.35	9.76	50.11	58.28	-8.17	QP	Р
4	0.3800	30.97	9.76	40.73	48.28	-7.55	AVG	Р
5	0.6063	39.38	9.78	49.16	56.00	-6.84	QP	Р
6	0.6063	20.64	9.78	30.42	46.00	-15.58	AVG	Р
7	2.4744	31.26	9.82	41.08	56.00	-14.92	QP	Р
8	2.4744	18.68	9.82	28.50	46.00	-17.50	AVG	Р
9	14.7819	30.25	10.37	40.62	60.00	-19.38	QP	Р
10	14.7819	17.00	10.37	27.37	50.00	-22.63	AVG	Р
11	22.7730	33.12	10.85	43.97	60.00	-16.03	QP	Р
12	22.7730	22.93	10.85	33.78	50.00	-16.22	AVG	Р

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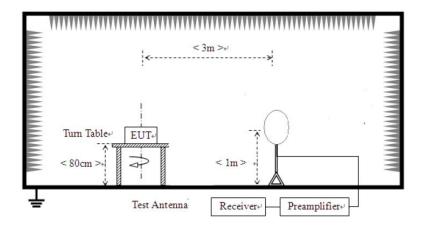


#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. 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 C63.10-2013.
- (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. F 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

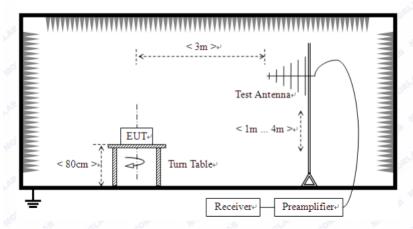


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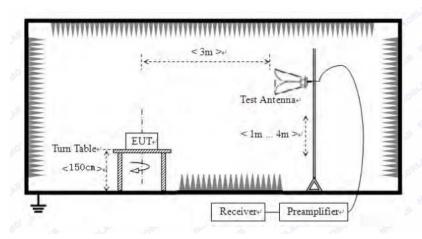
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For radiated emissions from 30MHz to1GHz



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 $\mu$ V/m)
0.009-0.049	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
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 (uV)
- 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. 802.11g was the worst case.

Note: Only the worst case was recorded in the test report.

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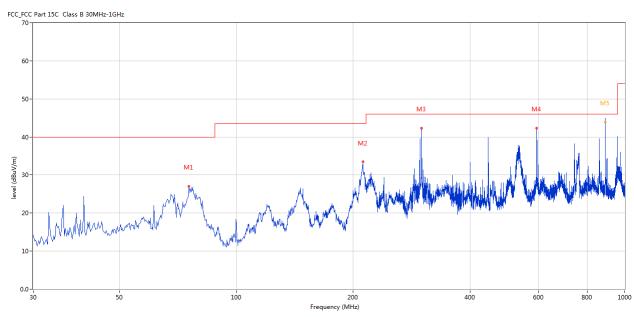


# Test result General Radiated Emission Data and Harmonics Radiated Emission Data

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

**EUT set Condition: Keep Transmitting** 

**Results: Pass** 



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	75.579	27.08	-17.45	40.0	-12.92	Peak	291.00	100	Horizontal	Pass
2	211.830	33.42	-13.68	43.5	-10.08	Peak	332.00	100	Horizontal	Pass
3	299.835	42.32	-11.03	46.0	-3.68	Peak	96.00	100	Horizontal	Pass
4	593.914	42.27	-5.25	46.0	-3.73	Peak	319.00	100	Horizontal	Pass
5	891.000	46.64	-1.91	46.0	0.64	Peak	21.00	101	Horizontal	N/A
5*	891.000	43.84	-1.91	46.0	-2.16	QP	21.00	101	Horizontal	Pass

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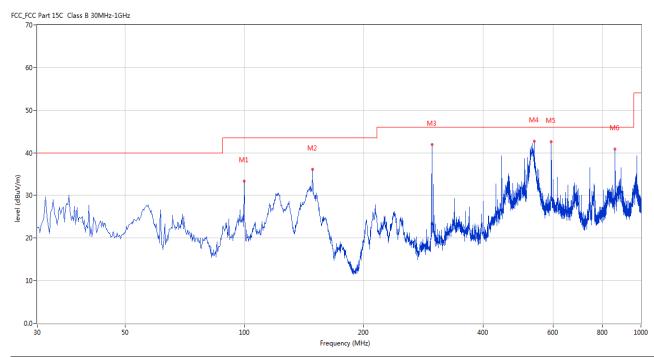


# Test result General Radiated Emission Data and Harmonics Radiated Emission Data

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

**EUT set Condition: Keep Transmitting** 

**Results: Pass** 



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	99.823	33.41	-13.56	43.5	-10.09	Peak	344.00	100	Vertical	Pass
2	148.310	36.13	-17.16	43.5	-7.37	Peak	256.00	100	Vertical	Pass
3	296.926	41.90	-11.07	46.0	-4.10	Peak	37.00	100	Vertical	Pass
4	537.668	42.74	-6.40	46.0	-3.26	Peak	315.00	100	Vertical	Pass
5	593.914	42.57	-5.25	46.0	-3.43	Peak	37.00	100	Vertical	Pass
6	860.840	40.93	-2.34	46.0	-5.07	Peak	175.00	100	Vertical	Pass

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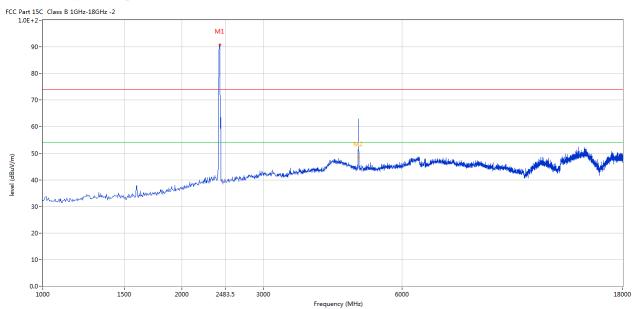
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Please refer to the following test plots for details:

## CH01 for 11g at 6Mbps: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4824.044	62.98	3.14	74.0	-11.02	Peak	91.00	100	Horizontal	Pass
2**	4824.044	48.49	3.14	54.0	-5.51	AV	91.00	100	Horizontal	Pass

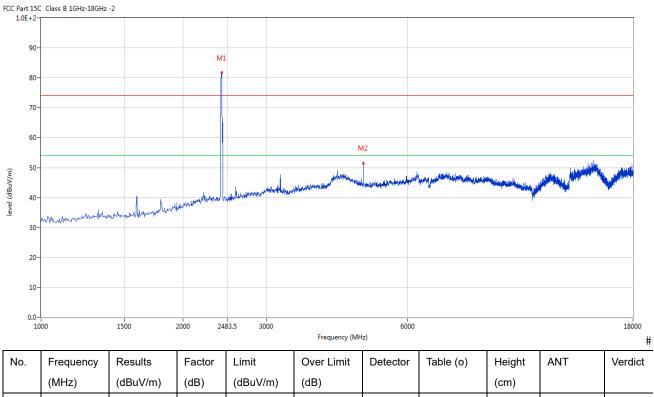
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## CH01 for 11g at 6Mbps: Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4824.044	51.48	3.14	74.0	-22.52	Peak	79.00	100	Vertical	Pass

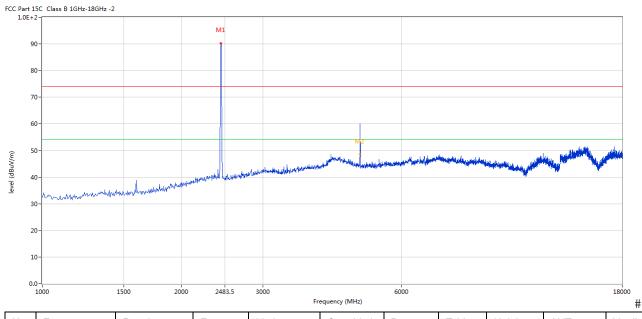
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## CH06 for 11g at 6Mbps: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4875.031	60.05	3.19	74.0	-13.95	Peak	91.00	100	Horizontal	Pass
2**	4875.031	48.52	3.19	54.0	-5.48	AV	91.00	100	Horizontal	Pass

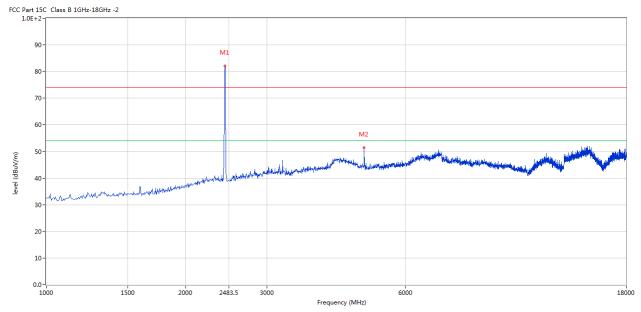
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## CH06 for 11g at 6Mbps: Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
2	4875.031	51.41	3.19	74.0	-22.59	Peak	69.00	100	Vertical	Pass

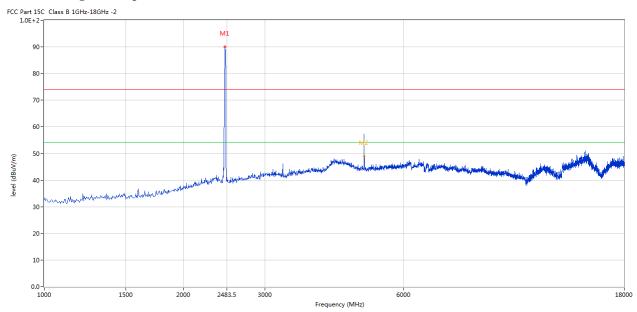
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## CH11 for 11g at 6Mbps: Horizontal



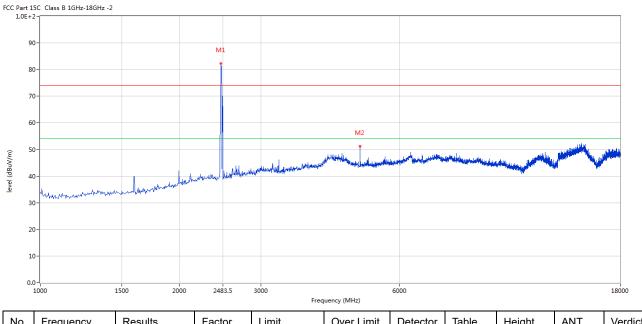
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4921.770	57.31	3.27	74.0	-16.69	Peak	98.00	100	Horizontal	Pass
2**	4921.770	48.93	3.27	54.0	-5.07	AV	98.00	100	Horizontal	Pass

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#### CH11 for 11g at 6Mbps: Vertical



N	o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2		4921.770	51.24	3.27	74.0	-22.76	Peak	16.00	100	Vertical	Pass

Note: 1. Result Level = Reading + Factor

- 2. Factor= AF + Cable Loss- Preamp
- 3. Margin = Result– Limit
- 4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- 5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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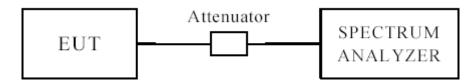
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#### 7.0 6dB Bandwidth Measurement

## 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  $(VBW) \ge 3 \times RBW$ .
- 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		MED	IA PLAYE	R	Model		EVP	AD-6P
Mode		8	302.11b		Test Volta	age	12	0V~
Temperat	ure	24	deg. C,		Humidity	,	56%	6 RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		mum Limit MHz)	Pass/ Fail
1		2412	1	10	.04		0.5	Pass
6		2437	1	10	.04		0.5	Pass
11		2462	1	9.	98		0.5	Pass
1		2412	11	10	.04		0.5	Pass
6		2437	11	10	.04	0.5		Pass
11		2462	11	10	.04		0.5	Pass

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

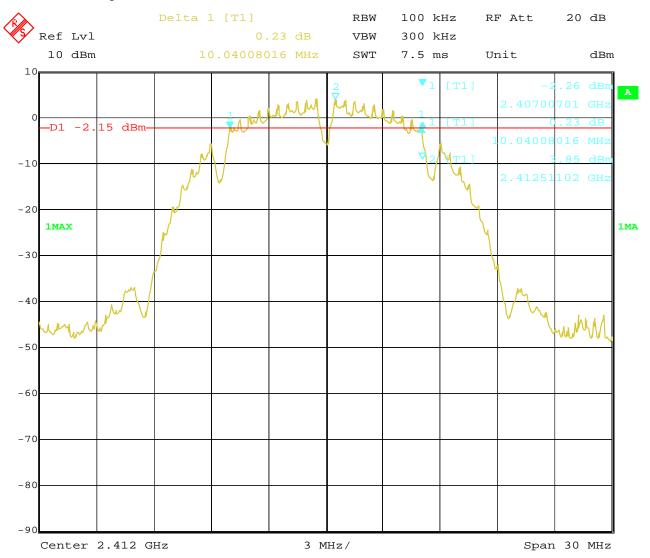
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## 1. 802.11b at 1Mbps of CH01



Date: 24.FEB.2022 15:51:26

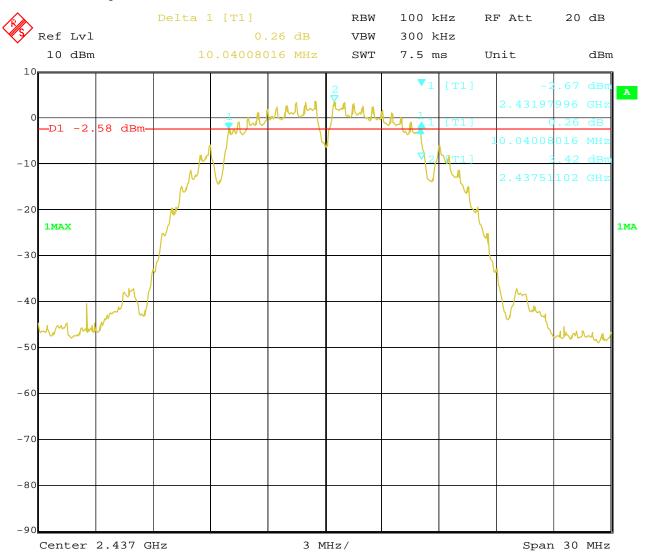
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## 2. 802.11b at 1Mbps of CH06



Date: 24.FEB.2022 16:16:43

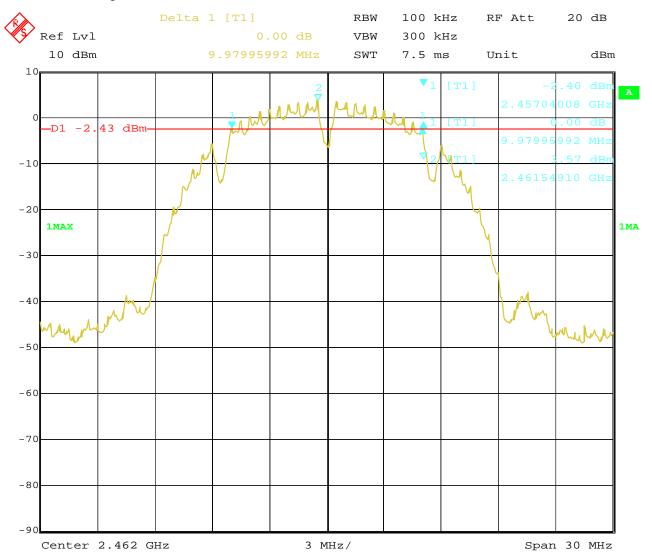
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## 3. 802.11b at 1Mbps of CH11



Date: 24.FEB.2022 16:21:07

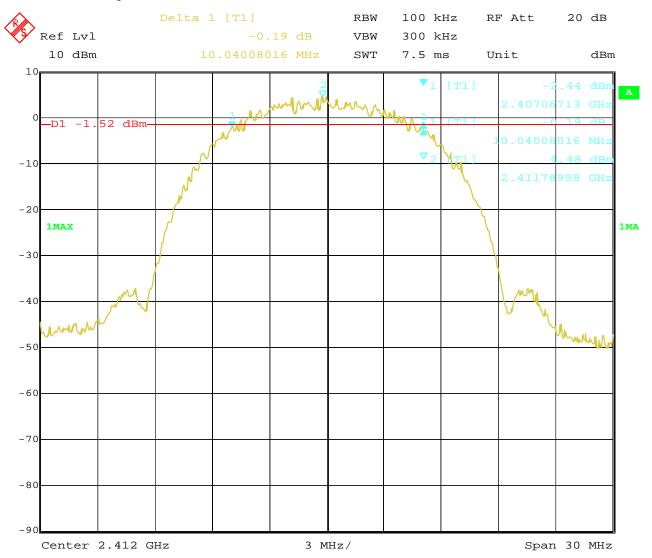
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## 4. 802.11b at 11Mbps of CH01



Date: 24.FEB.2022 15:59:02

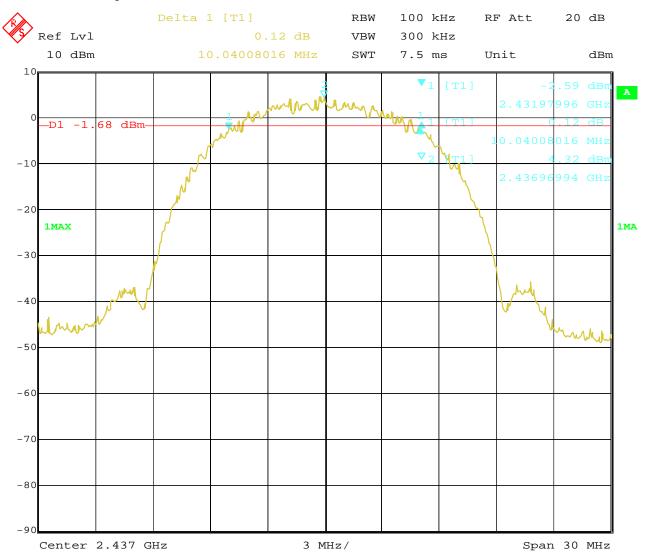
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## 5. 802.11b at 11Mbps of CH06



Date: 24.FEB.2022 16:04:38

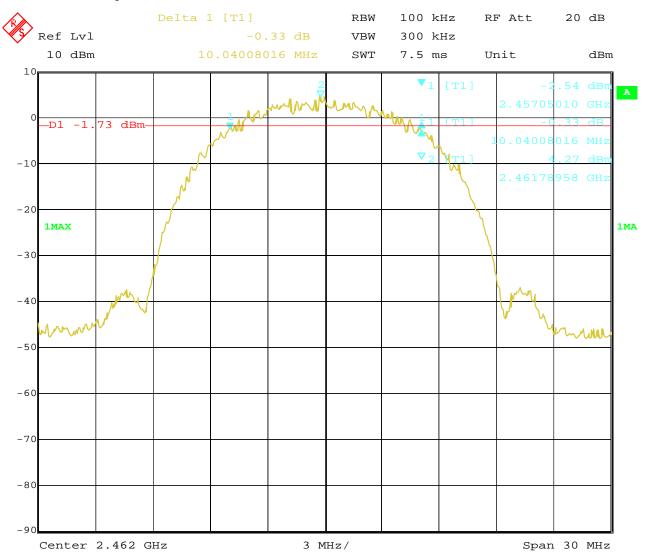
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## 6. 802.11b at 11Mbps of CH11



Date: 24.FEB.2022 16:26:32 Report No.: TW2202035-01E Page 32 of 100

Date: 2022-02-25



## 6dB Occupied Bandwidth

EUT		MED	IA PLAYE	R	Model		EV	/PAD-6P
Mode		8	302.11g		Test Volta	ige		120V~
Temperat	nperature		4 deg. C,		Humidity	,	5	6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	6	16	5.41		0.5	Pass
6		2437	6	16	5.41	0.5		Pass
11		2462	6	16	5.41		0.5	Pass

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

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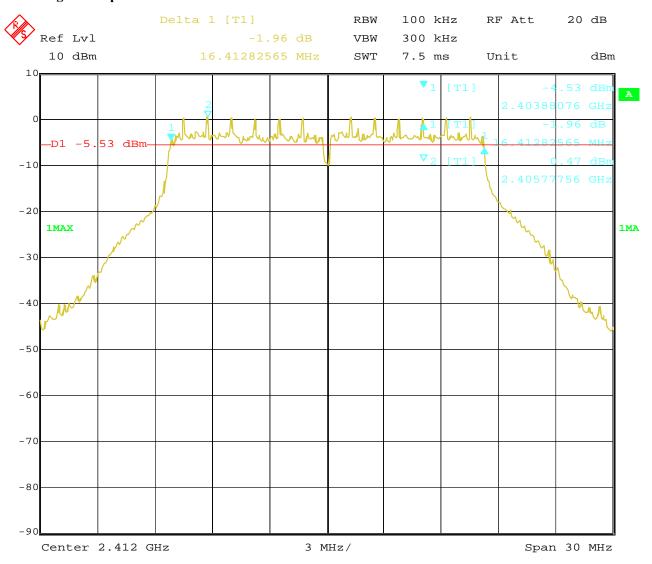
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#### **Test Plots:**

## 1. 802.11g at 6Mbps of CH01



24.FEB.2022 15:56:36 Date:

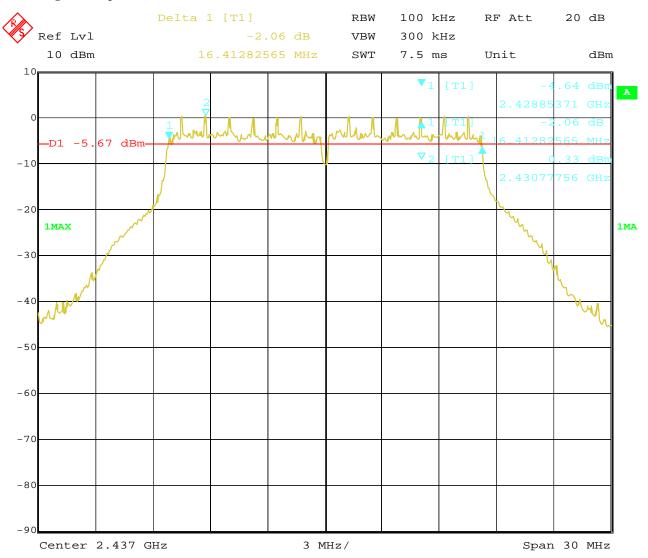
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## 2. 802.11g at 6Mbps of CH06



Date: 24.FEB.2022 16:08:32

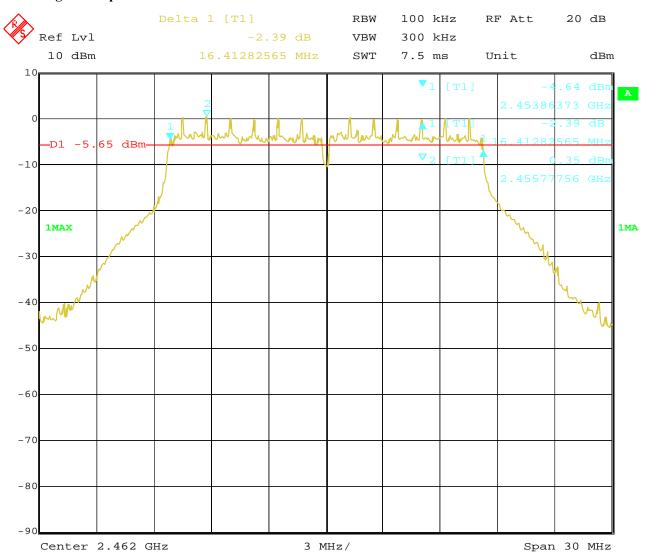
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## 3. 802.11g at 6Mbps of CH11



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## 6dB Occupied Bandwidth

EUT		MEDIA PLAYER			Model		EVPAD-6P	
Mode		802.11n HT20			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	17.56		0.5		Pass
6	2437		mcs0	17.56		0.5		Pass
11	2462		mcs0	17.56			0.5	Pass

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

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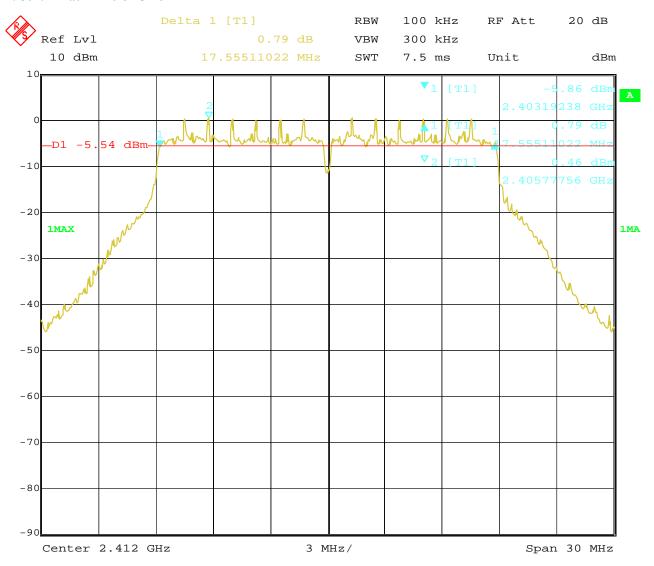
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#### **Test Plots:**

# 1. 802.11n at HT20 of CH01



24.FEB.2022 16:34:41 Date:

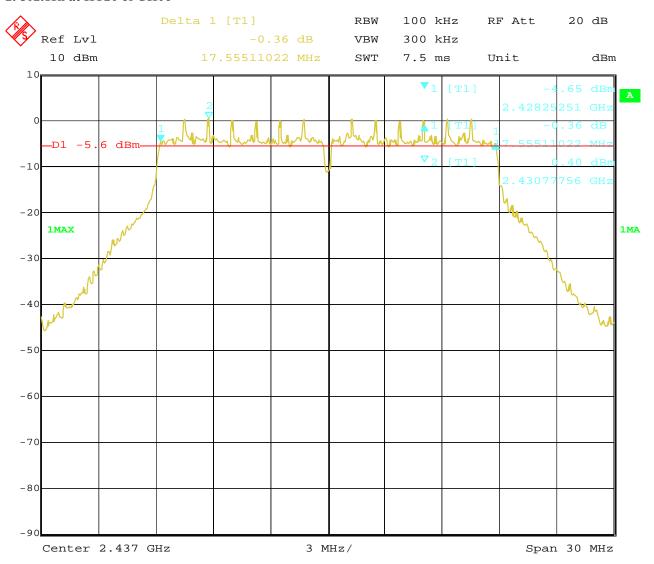
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### 2. 802.11n at HT20 of CH06



Date: 24.FEB.2022 16:32:36

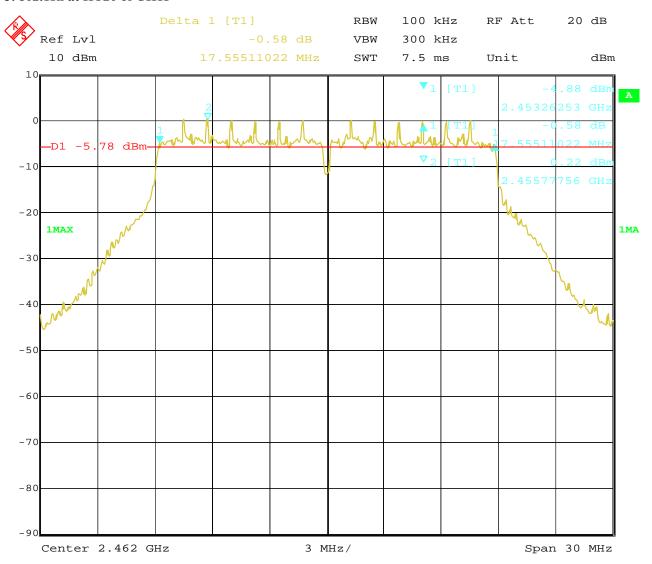
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### 3. 802.11n at HT20 of CH11



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# 6dB Occupied Bandwidth

EUT		MED	IA PLAYE	R	Model		EVPAD-6P	
Mode		802	.11n HT40		Test Voltage 120		0V~	
Temperat	Temperature		24 deg. C,				56%	6 RH
Channel	Channel Frequency (MHz)		Data Transfer Rate (Mbps)	-	6 dB Bandwidth (MHz)		mum Limit MHz) Pass/ Fai	
3		2422	mcs0	36.19			0.5	Pass
6		2437	mcs0	36.19			0.5	Pass
9	2452		mcs0	36	36.19		0.5	Pass

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

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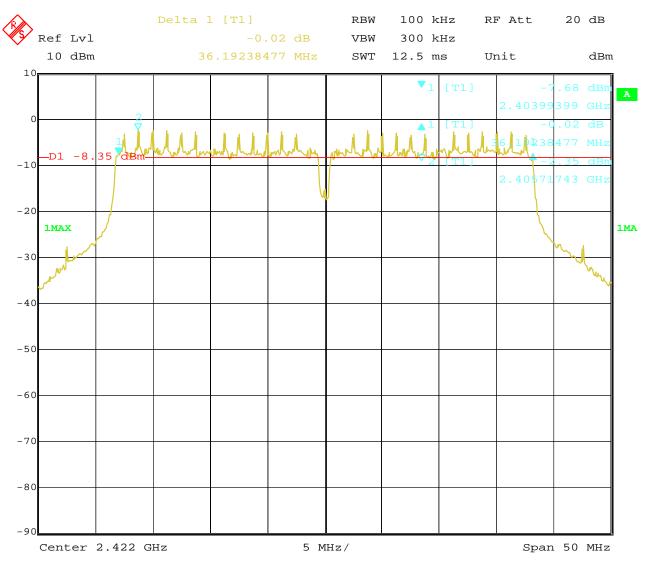
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#### **Test Plots:**

# 1.802.11n at HT40 of CH03



24.FEB.2022 16:36:20 Date:

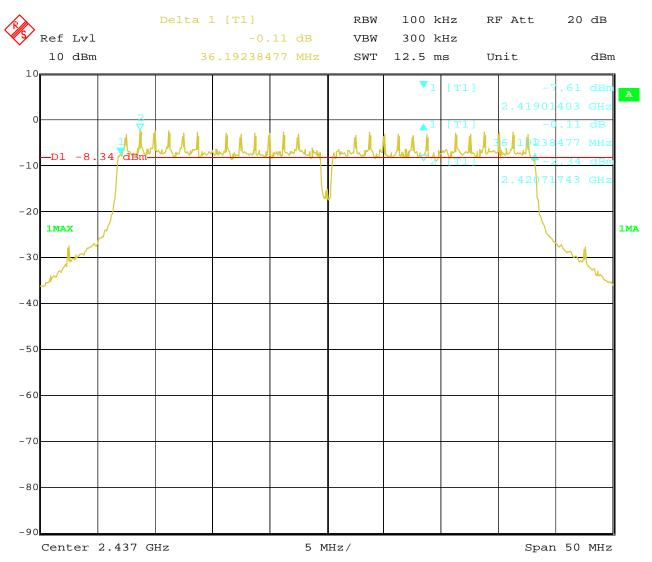
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### 2. 802.11n at HT40 of CH06



Date: 24.FEB.2022 16:41:49

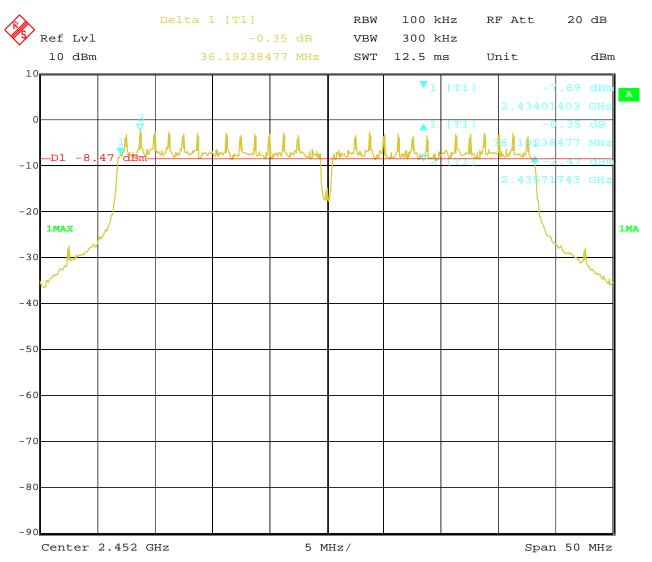
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### 3. 802.11n at HT40 of CH09



Date: 24.FEB.2022 16:52:42 Report No.: TW2202035-01E

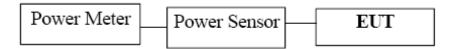
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# 8. Maximum Output Power

# 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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#### **8.4Test Results**

EUT		N	/IEDIA I	PLAYER		Mo	del	EVPAD-6P		
Mode		802.11b			Test Voltage		120V~			
Temperat	ure		24 de	g. C,	C, Humidity			56% RH		
Channel	Frequ (MH	uency z)	ANT0	Power mW	ANT dBm	l Power mW	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail	
1	2412		18.92	77.98	18.76	75.16	21.85	30	Pass	
6	2437		18.67	73.62	18.43	69.66	21.56	30	Pass	
11	2462		18.81	76.03	18.65	73.28	21.74	30	Pass	

Note: 1. At finial test to get the worst-case emission at 1Mbps 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

EUT		N	MEDIA I	PLAYER		Mo	del	EVPA	D-6P
Mode			802.	11g		Test V	oltage	120V~	
Temperat	ure		24 de	eg. C,		Humidity 56% RH			RH
Channel	Frequence (MH	uency z)	ANT0	Power mW	ANT1	Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412		19.09	81.10	18.98	79.07	22.05	30	Pass
6	2437		19.02	79.80	18.87	77.09	21.96	30	Pass
11	2462		18.78	75.51	18.56	71.78	21.68	30	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps 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

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EUT		N	MEDIA I	PLAYER		Mo	del	EVPAD-6P		
Mode		802.11n (HT20) Test Voltage			oltage	120V~				
Temperat	ure		24 de	eg. C,		Hum	idity	56% RH		
Channel	Freq (MH	uency z)	ANT0	Power mW	ANT dBm	1 Power mW	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail	
1	2412	,	19.01	79.62	18.83	76.38	21.93	30	Pass	
6	2437	1	18.94	78.34	18.76	75.16	21.86	30	Pass	
11	2462		18.68	73.79	18.31	67.76	21.51	30	Pass	

Note: 1. At finial 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

EUT		N	MEDIA I	PLAYER		Mo	del	EVPAD-6P	
Mode			802.11n	.11n (HT40) Test Voltage		oltage	120V~		
Temperat	ure		24 de	eg. C,		Humidity		56% RH	
Channel	Freq (MH	uency z)	ANT0	Power mW	ANT1	Power	Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
3	2422	,	18.81	76.03	18.68	73.79	21.76	30	Pass
6	2437		18.72	74.47	18.54	71.45	21.64	30	Pass
9	2452	,	18.54	71.45	18.24	66.68	21.40	30	Pass

Note: 1. At finial test to get the worst-case emission at msc0 of 11n HT40 for CH03, CH06 and CH09

- 2. The result basic equation calculation as follow: Power Output = Power Reading + Cable loss + Attenuator
- 3. The worse case was recorded

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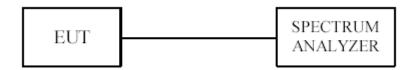
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# 9. Power Spectral Density Measurement

# 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  $\leq 8 \text{ dBm/3kHz}$ .

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#### 9.4Test Result

EUT		MEDIA PLAYER			N	Model	EVPAD-6P		
Mode		802.11b 11Mbps		Test Voltage			120V~		
Temperat	ure	e 24 deg. C,		Humidity		56% RH			
Channel	Freq	quency ANTO Power F		actor	Total Power Spectral		Limit	Pass/ Fail	
	(M	IHz)	Spectral Density			Density (d	Bm/10kHz)	(dBm/3kHz)	
1	24	412 -4.92			3.01	-1.91		8	Pass
6	24	437	-4.51		3.01	-1	.50	8	Pass
1	24	462	-4.66		3.01	-1.65		8	Pass

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

2. Factor=10log2=3.01

3. ANT0 and ANT1 were tested and ANT0 was the worst case

EUT		N	MEDIA PLAYER		N	Model	EVPAD-6P		
Mode		802.11b 1Mbps		Test Voltage			120V~		
Temperat	ure		24 deg. C,	24 deg. C,		midity 56% RH			
Channel	Freq	quency ANTO Power I		actor	Total Power Spectral		Limit	Pass/ Fail	
	(M	IHz)	Spectral Density			Density (d	Bm/10kHz)	(dBm/3kHz)	
1	24	412	-2.79		3.01	0.22		8	Pass
6	24	2437 -3.20			3.01	-0.19		8	Pass
1	24	2462 -3.88			3.01	-0	.87	8	Pass

Note: 1. Total Power Spectral Density = ANT1 Power Spectral Density + Factor

2. Factor=10log2=3.01

3. ANT0 and ANT1 were tested and ANT0 was the worst case

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EUT		MEDIA PLAYER			N	Model	EVPAD-6P		
Mode	e 802.11g 6Mbps		Test Voltage			120V~			
Temperat	ure		24 deg. C,		Нυ	umidity		56% RH	
Channel	Freq	uency	ANT0 Power	F	actor	Total Pow	Total Power Spectral		Pass/ Fail
	(M	(Hz)	Spectral Density			Density (dBm/10kHz)		(dBm/3kHz)	
1	24	412	-9.04		3.01	-6.03		8	Pass
6	24	137	-9.37		3.01	-6	.36	8	Pass
1	24	162	-9.54		3.01	-6	.53	8	Pass

Note: 1. Total Power Spectral Density = ANT1 Power Spectral Density + Factor

2. Factor=10log2=3.01

3. ANT0 and ANT1 were tested and ANT0 was the worst case

EUT		MEDIA PLAYER			Model		EVPAD-6P		
Mode	802.11n HT20 mcs0		Test Voltage			120V~			
Temperat	ure		24 deg. C,	C, Humid		ımidity	56% RH		
Channel	Freq	uency ANT0 Power F		actor	Total Pow	er Spectral	Limit	Pass/ Fail	
	(M	IHz)	Spectral Density			Density (d	Bm/10kHz)	(dBm/3kHz)	
1	24	412	-8.15		3.01	-5.14		8	Pass
6	24	437 -8.78			3.01	-5	.77	8	Pass
1	24	2462 -9.05			3.01	-6.04		8	Pass

Note: 1. Total Power Spectral Density = ANT1 Power Spectral Density + Factor

2. Factor=10log2=3.01

3. ANT0 and ANT1 were tested and ANT0 was the worst case

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EUT		MEDIA PLAYER			N	Model	EVPAD-6P		
Mode	Mode 802.11n HT40 mcs0		Test Voltage		120V~				
Temperat	ure		24 deg. C,			Humidity		56% RH	
Channel	Freq	uency	ANT0 Power	F	actor	Total Pow	er Spectral	Limit	Pass/ Fail
	(M	(Hz)	Spectral Density			Density (d	Bm/10kHz)	(dBm/3kHz)	
3	24	122	-10.89		3.01	-7.88		8	Pass
6	24	437	-11.49		3.01	-8.48		8	Pass
9	24	152	-11.44		3.01	-8	.43	8	Pass

Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor

<sup>2.</sup> Factor=10log2=3.01

<sup>3.</sup> ANT0 and ANT1 were tested and ANT0 was the worst case

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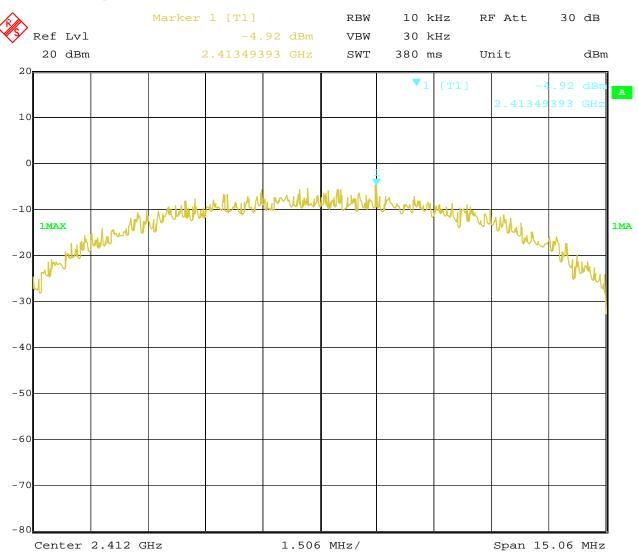
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# 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



25.FEB.2022 09:32:59 Date:

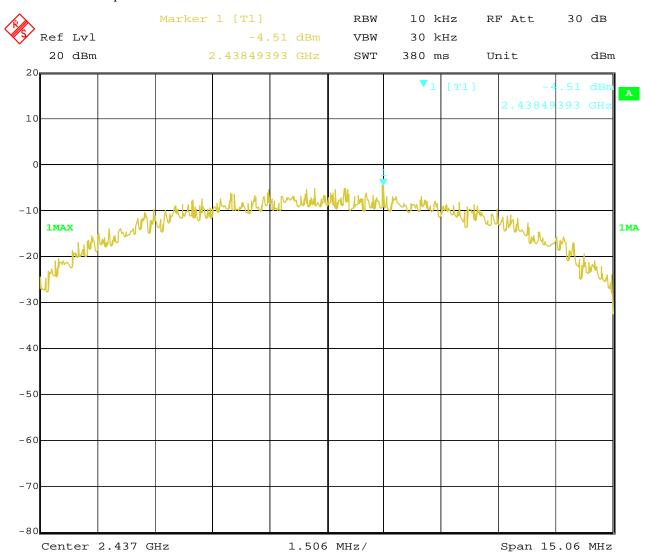
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# 2. 802.11b at 11Mbps at CH06



Date: 25.FEB.2022 09:28:45

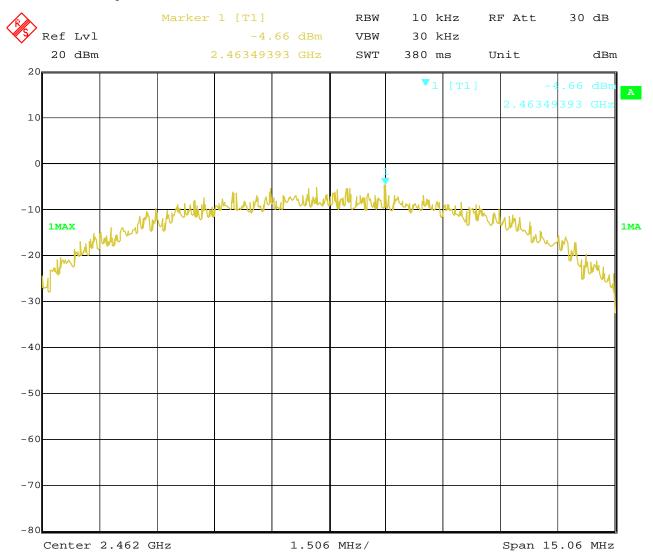
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# 3. 802.11b at 11Mbps of CH11



Date: 25.FEB.2022 09:20:13

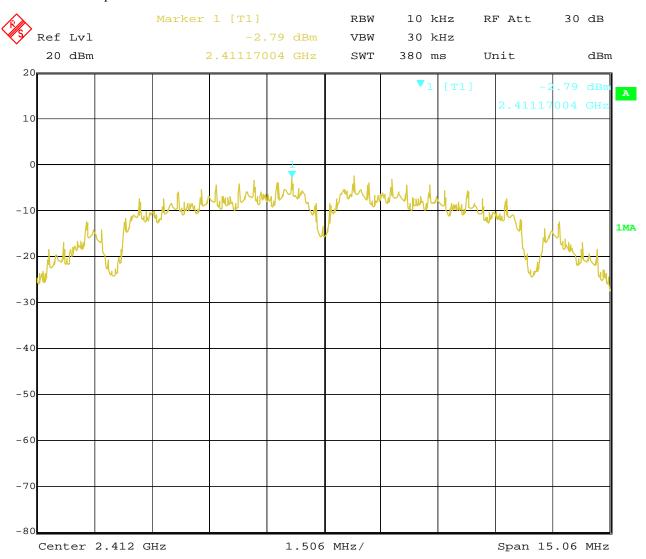
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# 4. 802.11b at 1Mbps of CH1



Date: 25.FEB.2022 09:10:25

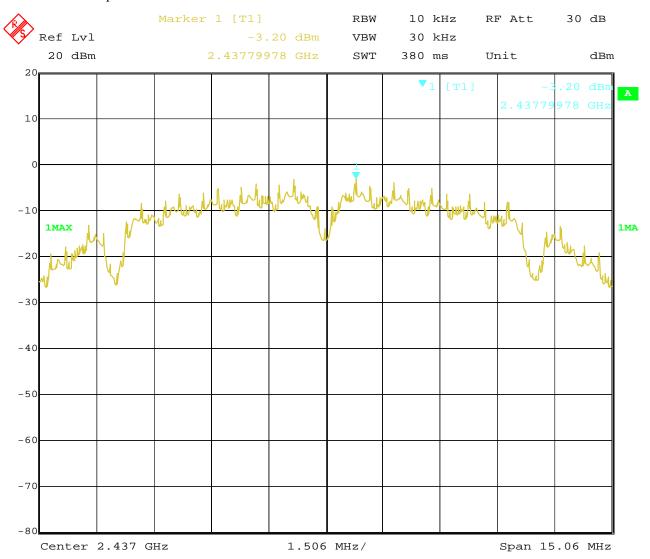
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# 5. 802.11b at 1Mbps of CH6



Date: 25.FEB.2022 09:14:11

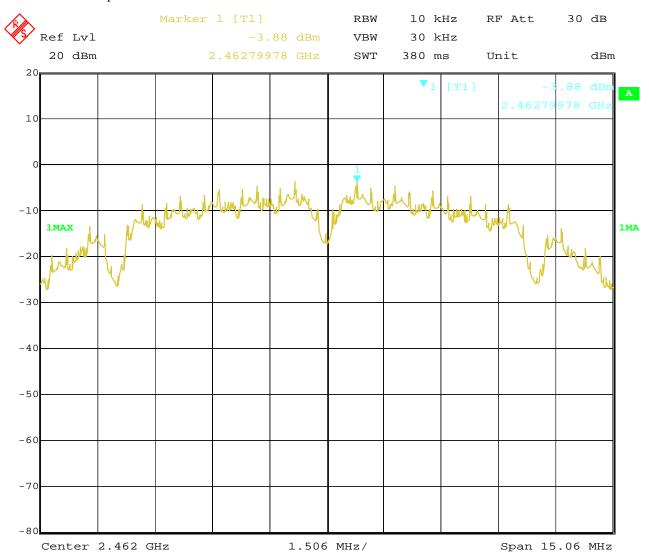
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# 6. 802.11b at 1Mbps of CH11



Date: 25.FEB.2022 09:15:51

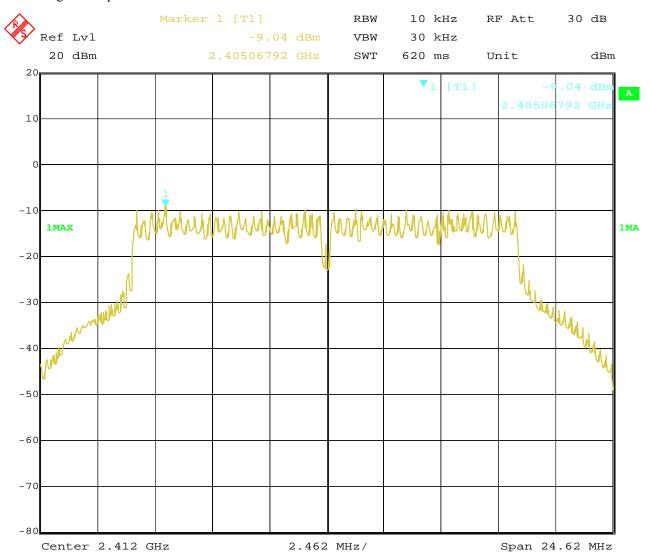
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# 7. 802.11g at 6Mbps of CH1



Date: 25.FEB.2022 09:35:19

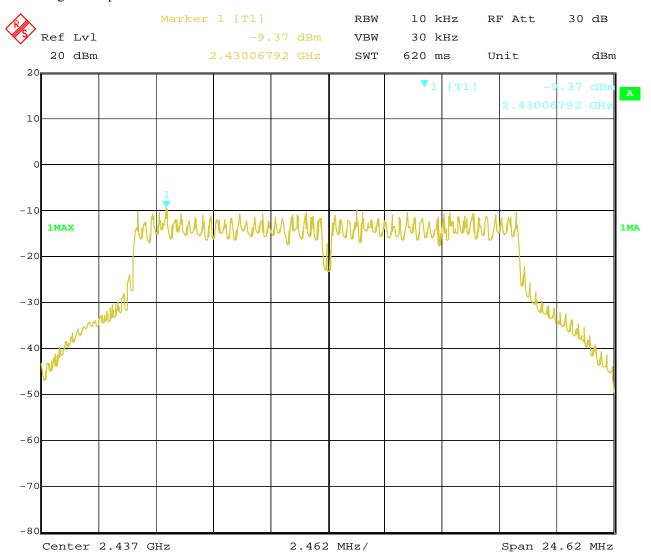
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# 8. 802.11g at 6Mbps of CH6



Date: 25.FEB.2022 09:38:16

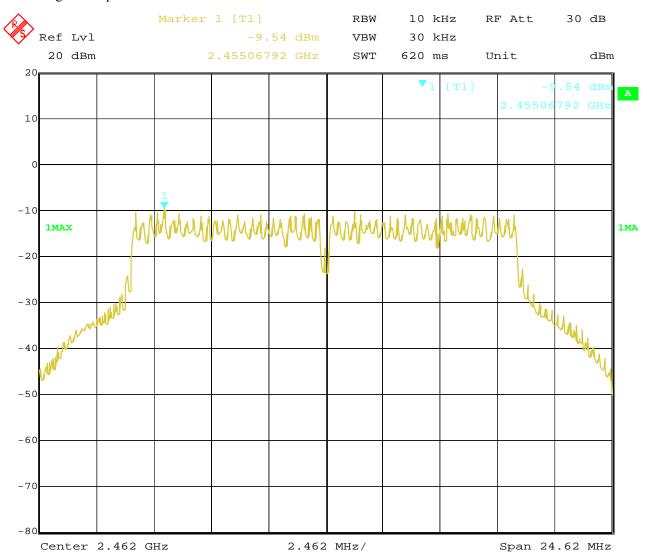
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Date: 2022-02-25



# 9. 802.11g at 6Mbps of CH11



Date: 25.FEB.2022 09:40:22

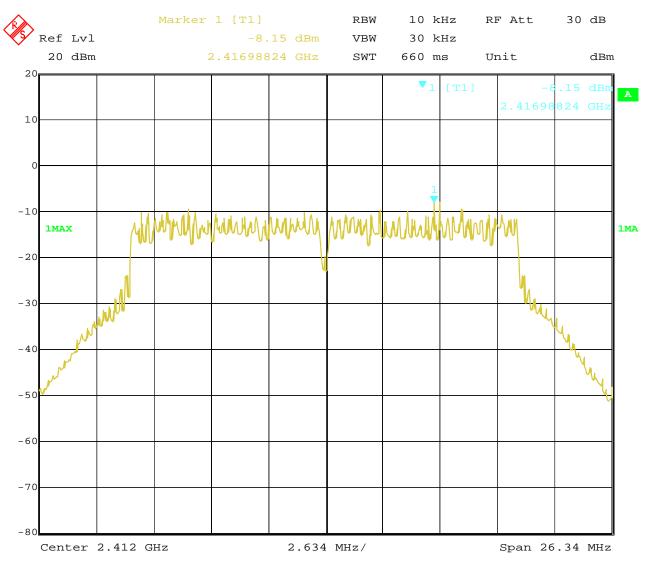
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### 10. 802.11n at HT20 of CH01



Date: 25.FEB.2022 09:43:09

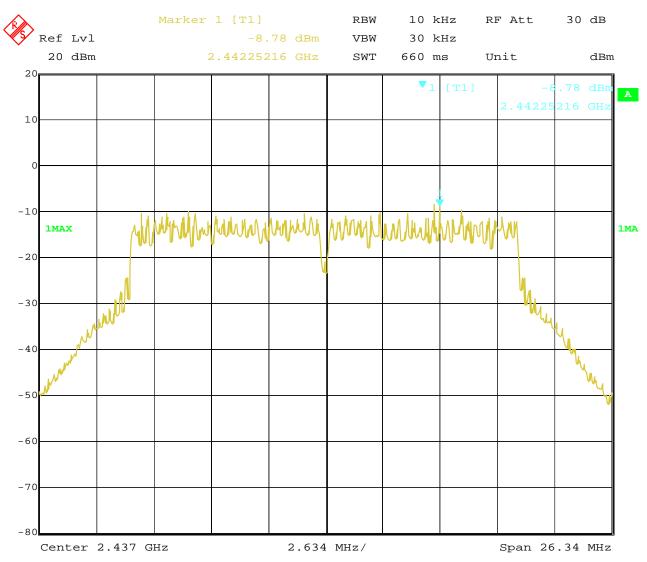
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### 11. 802.11n at HT20 of CH06



Date: 25.FEB.2022 09:42:13

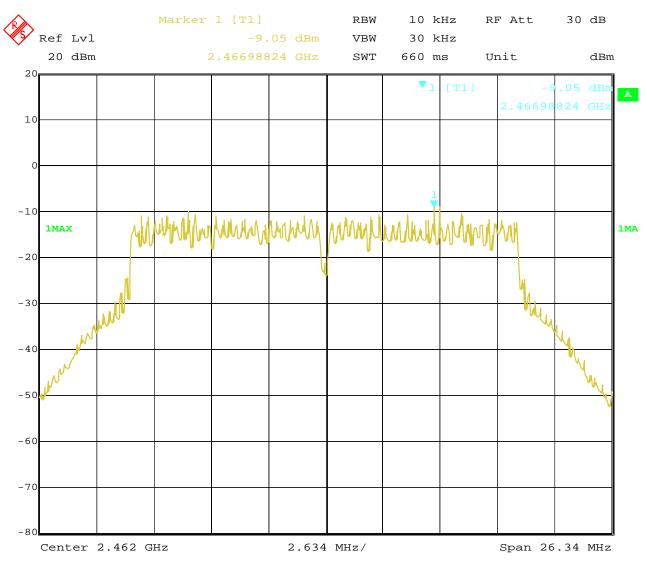
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### 12. 802.11n at HT20 of CH11



Date: 25.FEB.2022 09:41:18

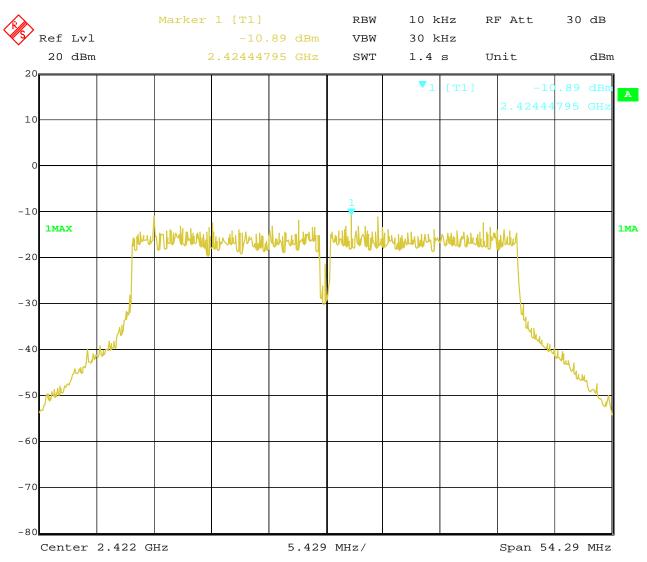
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### 13. 802.11n at HT40 of CH03



Date: 25.FEB.2022 09:44:11

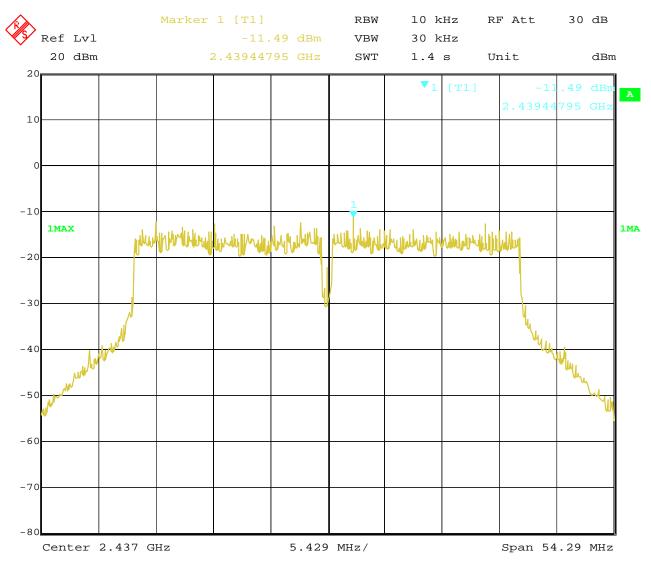
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### 14. 802.11n at HT40 of CH06



Date: 25.FEB.2022 09:45:00

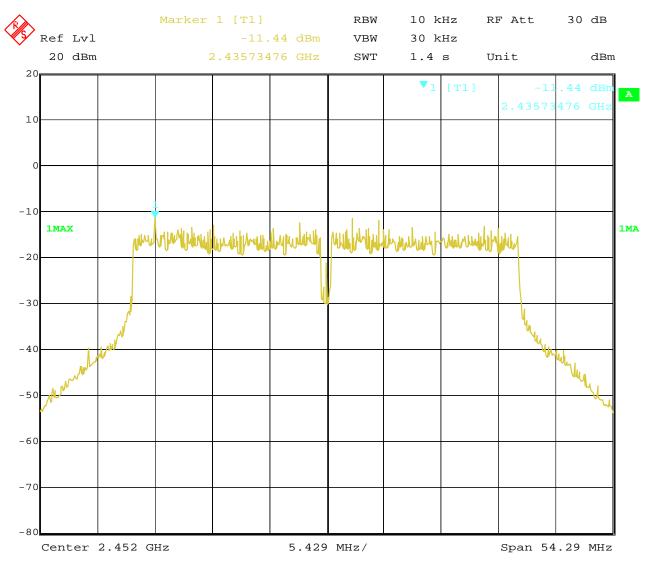
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Date: 2022-02-25



### 15. 802.11n at HT40 of CH09



Date: 25.FEB.2022 09:46:29 Report No.: TW2202035-01E

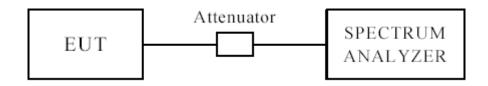
Date: 2022-02-25



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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. Two antennas were tested and only the worst cased was recorded in the test report. ANT0 was the worst case.

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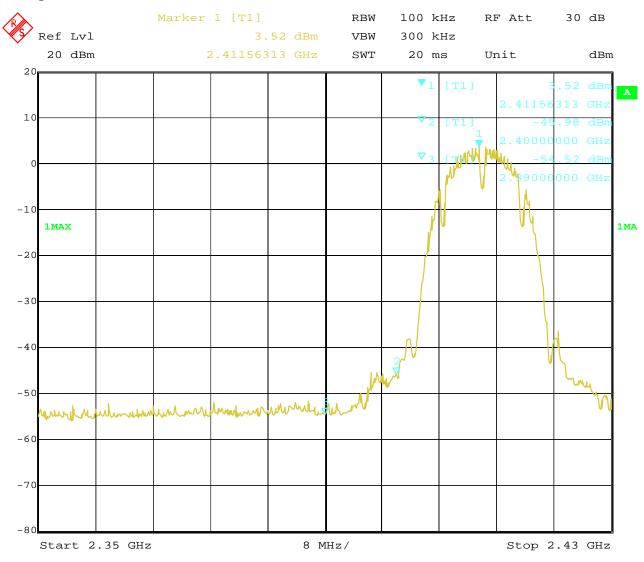
# For 802.11b mode

CH01 at 1Mbps

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:50:04 Date:

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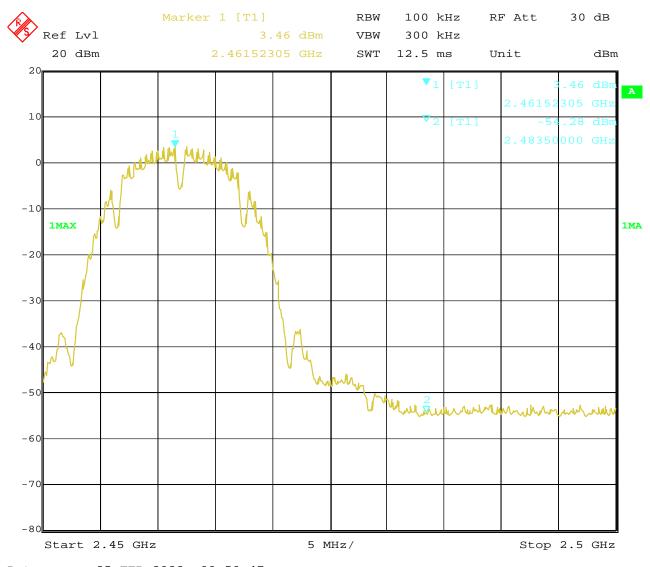


### CH11 at 1Mbps

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:50:47 Date:

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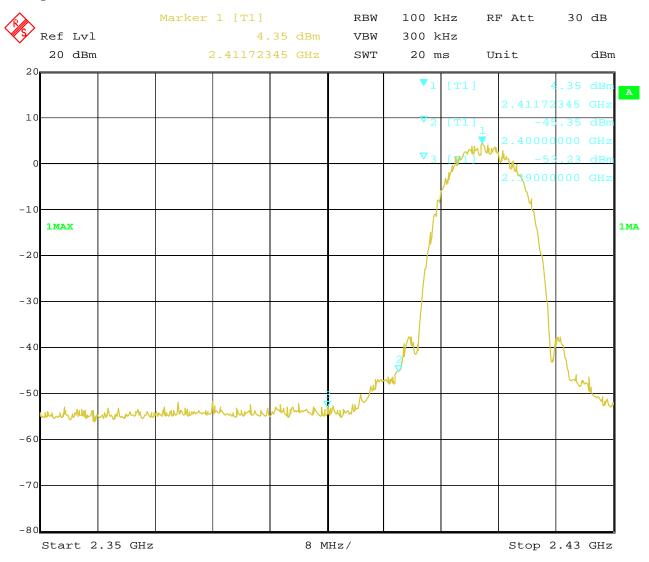
# For 802.11b mode

CH01 at 11Mbps

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:48:47 Date:

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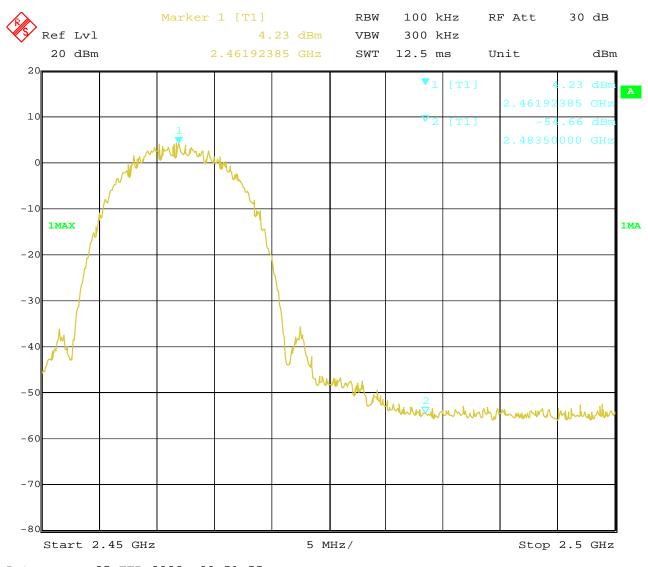


# CH11 at 11Mbps

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:51:55 Date:

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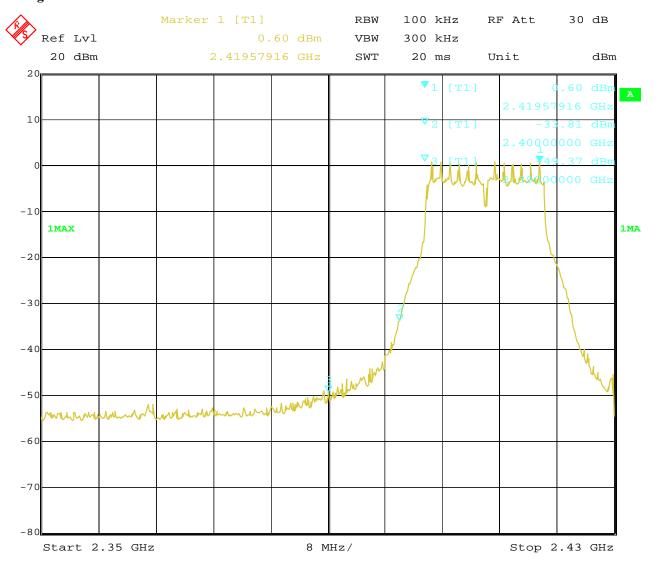
# For 802.11g mode

CH01 at 6Mbps

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:49:28 Date:

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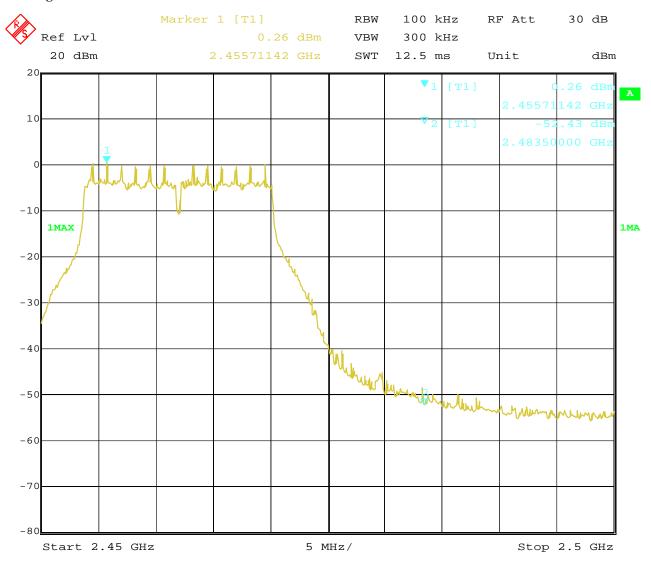


### CH11 at 6Mbps

#### Band-edge Measurement 10.4

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 Date: 09:51:27

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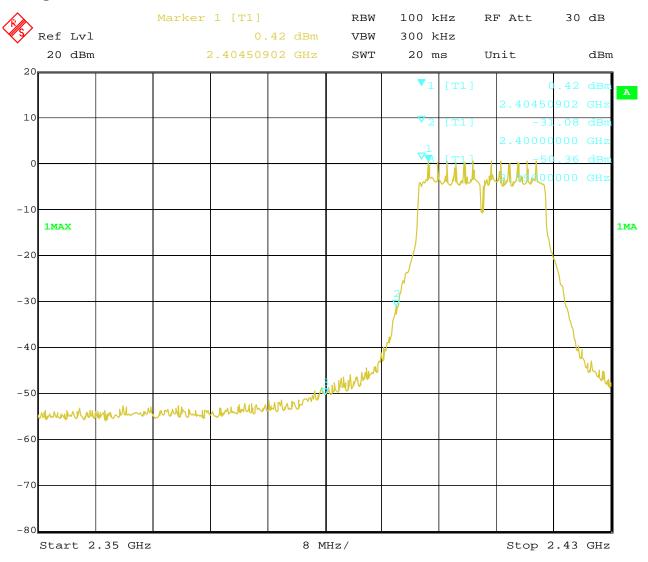
## For 802.11n (HT20) mode

CH01 at mcs0

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 09:48:11 Date:

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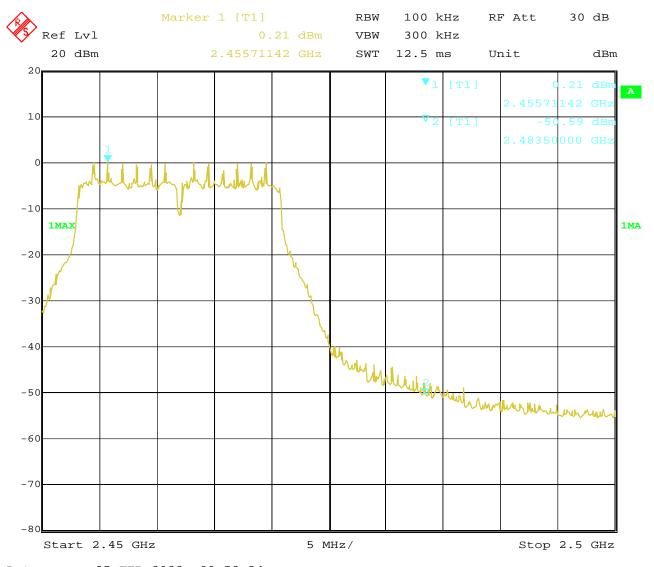


## CH11 at mcs0

#### 10.4 Band-edge Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



25.FEB.2022 Date: 09:52:34

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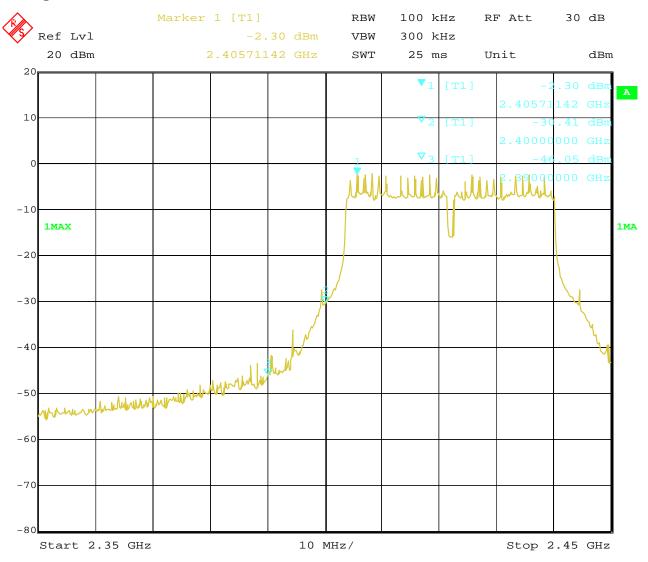
## For 802.11n (HT40) mode

CH03 at msc0

# **10.4** Band-edge and Restricted band Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



Date: 25.FEB.2022 09:47:42

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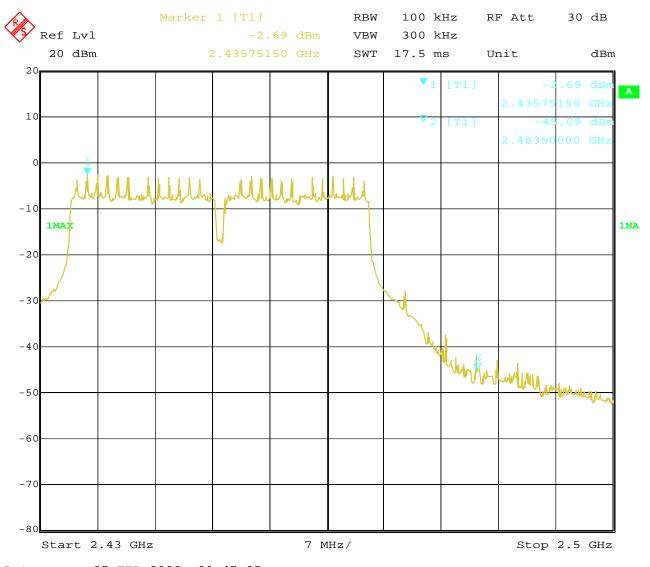


## CH09 at msc0

#### 10.4 Band-edge and Restricted band Measurement

EUT	MEDIA PLAYER	Model	EVPAD-6P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



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#### 10.5 Restricted band Measurement

EUT	MEDI	A PLAYER	Model	EVPAD-6P			
Mode	Keeping	Transmitting	Test Voltage	120V~			
Temperature	24	deg. C,	Humidity	56% RH			
Test Result:		Pass	Detector	PK			
802.11b mode, Low Channel, Horizontal							
2390	PK (dBμV/m)	47.22	Limit	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$			
	802.11b mode, Vertical						
2390	PK (dBμV/m)	44.74	I imit	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBµV/m)			

10.5 Restricted build Nieustrement								
EUT	MEDI	A PLAYER	Model	EVPAD-6P				
Mode	Keeping	g Transmitting	Test 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) 46.28		T 114	$74(dB\mu V/m)$				
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$				
802.11b mode, High Channel, Vertical								
2483.5	PK (dBµV/m)	42.52	T ::4	$74(dB\mu V/m)$				
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$				

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#### 10.5 Restricted band Measurement

EUT	MEDI	A PLAYER	Model	EVPAD-6P			
Mode	Keeping	Transmitting	Test Voltage	120V~			
Temperature	24	deg. C,	Humidity	56% RH			
Test Result:		Pass	Detector	PK			
802.11g mode, Low Channel, Horizontal							
2390	PK (dBµV/m)	49.01	T : :/	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBµV/m)			
	802.11g mode, Vertical						
2390	PK (dBμV/m)	PK (dBμV/m) 45.15		$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$			

10.5 Restricted band Wedstrement								
EUT	MEDI	A PLAYER	Model	EVPAD-6P				
Mode	Keeping	g Transmitting	Test 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) 48.95		T ::4	$74(dB\mu V/m)$				
	AV ( $dB\mu V/m$ )		Limit	$54(dB\mu V/m)$				
802.11g mode, High Channel, Vertical								
2483.5	PK (dBμV/m) 45.23		T ::4	74(dBμV/m)				
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$				

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#### 10.5 Restricted band Measurement

EUT	MEDI	A PLAYER	Model	EVPAD-6P			
Mode	Keeping	Transmitting	Test 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)	50.64	T ::4	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBµV/m)			
	802.11n HT20 mode, Low Channel, Vertical						
2390	PK (dBμV/m)	46.32	Limit	74(dBμV/m)			
	AV $(dB\mu V/m)$		Limit	$54(dB\mu V/m)$			

EUT	MEDI	A PLAYER	Model	EVPAD-6P	
Mode	Keeping	Transmitting	Test Voltage	120V~	
Temperature	24	deg. C,	Humidity	56% RH	
Test Result:		Pass	Detector	PK	
802.11n HT20 mode, High Channel, Horizontal					
2483.5	PK (dBμV/m) 50.92		T : '4	74(dBμV/m)	
	AV (dBμV/m)		Limit	54(dBμV/m)	
	8	02.11n HT20 mode, Hi	igh Channel, Verti	cal	
2483.5	PK (dBμV/m)	46.94	Limit	74(dBμV/m)	
	AV (dBμV/m)	$AV (dB\mu V/m)$		54(dBμV/m)	

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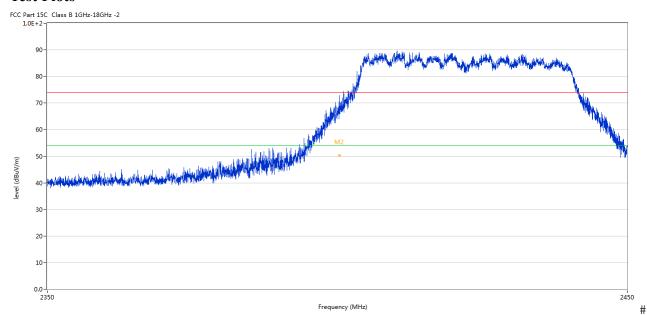
Date: 2022-02-25



#### 10.5 Restricted band Measurement

EUT	MEDI	A PLAYER	Model	EVPAD-6P	
Mode	Keeping	g Transmitting	Test Voltage	120V~	
Temperature	24	deg. C,	Humidity	56% RH	
Test Result:		Pass	Detector	PK	
802.11n HT40 mode, Low Channel, Horizontal					
2390	PK (dBµV/m)	53.20	T ::4	$74(dB\mu V/m)$	
	AV (dBμV/m)		Limit	54(dBµV/m)	
	;	802.11n HT40 mode, L	ow Channel Vertic	al	
2390	PK (dBμV/m) 49.74		Limit	74(dBμV/m)	
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$	

# **Test Plots**



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2409.935	89.69	-3.57	74.0	15.69	Peak	89.00	100	Horizontal	N/A
2	2399.838	72.90	-3.57	74.0	-1.10	Peak	89.00	100	Horizontal	Pass
2**	2399.838	50.28	-3.57	54.0	-3.72	AV	89.00	100	Horizontal	Pass
3	2390.765	53.20	-3.53	74.0	-20.80	Peak	89.00	100	Horizontal	Pass

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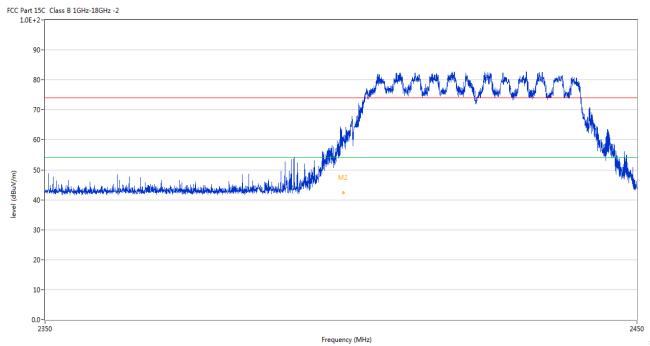
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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2423.932	82.68	-3.57	74.0	8.68	Peak	104.00	100	Vertical	N/A
2	2399.838	64.36	-3.57	74.0	-9.64	Peak	104.00	100	Vertical	Pass
2**	2399.838	42.31	-3.57	54.0	-11.69	AV	104.00	100	Vertical	Pass
3	2390.015	49.74	-3.53	74.0	-24.26	Peak	115.00	100	Vertical	Pass

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EUT	MED	IA PLAYER	Model	EVPAD-6P					
Mode	Keeping	g Transmitting	Test Voltage	120V~					
Temperature	24	l deg. C,	Humidity	56% RH					
Test Result:		Pass	Detector	PK					
802.11n HT40 mode, High Channel, Horizontal									
2483.5	PK (dBμV/m) 53.31		Limit	$74(dB\mu V/m)$					
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$					
802.11n HT40 mode, High Channel, Vertical									
2483.5	PK (dBμV/m) 47.89		T: '/	74(dBµV/m)					
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$					



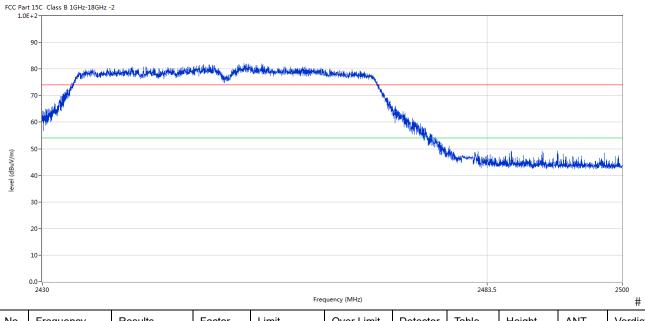
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2435.546	90.22	-3.57	74.0	16.22	Peak	77.00	100	Horizontal	N/A
2	2483.469	53.31	-3.57	74.0	-20.69	Peak	83.00	100	Horizontal	Pass

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									#	
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2454.144	82.13	-3.57	74.0	8.13	Peak	11.00	100	Vertical	N/A
2	2483.452	47.89	-3.57	74.0	-26.11	Peak	354.00	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 mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 11.2 Antenna Connected construction

Two integral antennas used. The gain of the antennas is 3.2dBi maximum for each one. (Get from the antenna specification provided the applicant)

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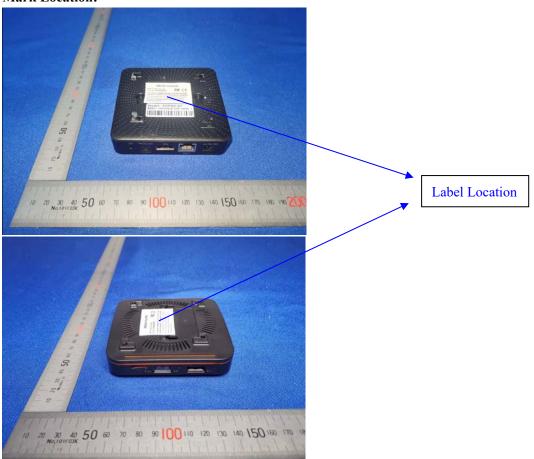
## 12.0 FCC ID Label

# FCC ID: 2A4G8X6P8P

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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#### 13.0 **Photo of testing**

Conducted Emission Test Setup:



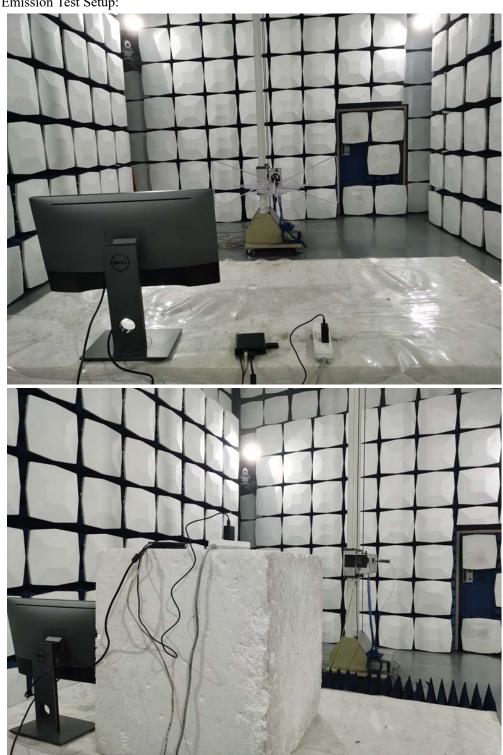
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# Radiated Emission Test Setup:



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# Photographs - EUT

Outside View - Model: EVPAD-6P



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Outside View - Model: EVPAD-6P



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Outside View - Model: EVPAD-6P



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Outside View - Model: EVPAD-6P



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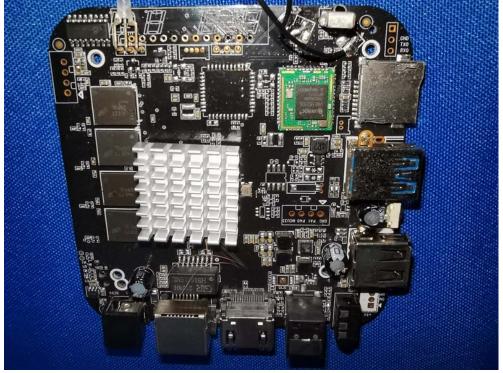
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Inside view - Model: EVPAD-6P





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Inside view - Model: EVPAD-6P





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Outside View - Model: LEBOXTV-X





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Outside View - Model: LEBOXTV-X



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Inside view - Model: LEBOXTV-X





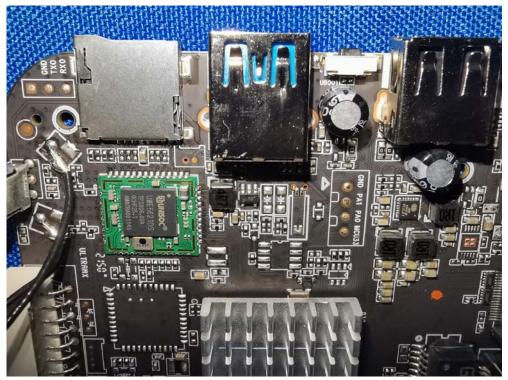
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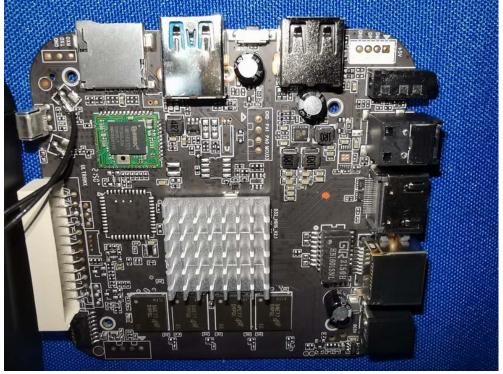
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Inside view - Model: LEBOXTV-X





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# Power Supply





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Power Supply



-End of the report-