

TECHNICAL REPORT



Report No.: TW2011121-01E  
File Reference No.: 2020-12-15

Applicant: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.

Product: Commercial Kiosk Tablet

Model No.: NEB215, NEB156

Trademark: GloryStar

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

A handwritten signature in black ink, appearing to read 'Jack Chung'.

Jack Chung

Manager

Dated: December 15, 2020

**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



### **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:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 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  
Content

<b>1.0</b>	<b>General Details</b> .....	4
1.1	Test Lab Details.....	4
1.2	Applicant Details.....	4
1.3	Description of EUT .....	4
1.4	Submitted Sample.....	5
1.5	Test Duration.....	5
1.6	Test Uncertainty.....	5
1.7	Test By.....	5
<b>2.0</b>	<b>List of Measurement Equipment</b> .....	6
<b>3.0</b>	<b>Technical Details</b> .....	8
3.1	Summary of Test Results.....	8
3.2	Test Standards.....	8
<b>4.0</b>	<b>EUT Modification</b> .....	8
<b>5.0</b>	<b>Power Line Conducted Emission Test</b> .....	9
5.1	Schematics of the Test.....	9
5.2	Test Method and Test Procedure.....	9
5.3	Configuration of the EUT.....	9
<b>5.4</b>	<b>EUT Operating Condition</b> .....	10
<b>5.5</b>	<b>Conducted Emission Limit</b> .....	10
<b>5.6</b>	<b>Test Result</b> .....	10
<b>6.0</b>	<b>Radiated Emission test</b> .....	15
6.1	Test Method and Test Procedure.....	15
6.2	Configuration of the EUT.....	16
6.3	EUT Operation Condition.....	16
6.4	Radiated Emission Limit.....	16
7.0	6dB Bandwidth Measurement.....	28
8.0	Maximum Output Power.....	48
9.0	Power Spectral Density Measurement.....	51
10.0	Out of Band Measurement.....	70
11.0	Antenna Requirement.....	85
12.0	FCC ID Label.....	86
13.0	Photo of Test Setup and EUT View.....	87

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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: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.  
Address: Bldg 9, 4/F ZhongYunTai Technology Industrial Park, Tangtou No.1 Road,Shiyan Street, Baoan, Shenzhen, China  
Telephone: (0755)-26001808-305  
Fax: (0755)-26002933

### 1.3 Description of EUT

Product: Commercial Kiosk Tablet  
Manufacturer: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.  
Address: Bldg 9, 4/F ZhongYunTai Technology Industrial Park, Tangtou No.1 Road,Shiyan Street, Baoan, Shenzhen, China  
Brand Name: N/A  
Model Number: NEB215, NEB156  
Additional Model Number: N/A

Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)  
IEEE 802.11g/n (HT20, HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)  
Frequency range IEEE 802.11b/g/n (HT20) : 2412-2462MHz; 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-mcs9  
Frequency Selection By software  
Channel Number IEEE 802.11b/g/n (HT20) : 11 Channels; IEEE 802.11n (HT40) : 7 Channels;

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Antenna: Two FPC antennas used. The gain of the antennas is 2.0dBi (get from the antenna specification provided the applicant)  
Input Voltage: NEB156: DC12V, 5A,15W (MAX); NEB215: DC12V, 5A,32W (MAX)  
Power Supply: Model: SOY-1200500-327; Input: 100-240V~50/60Hz,1.7A Max;  
Output: 12.0V $\overline{\text{---}}$ 5.0A,60.0W

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2020-11-10 to 2020-12-15

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: Terry Tang

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<b>2.0 Test Equipment</b>					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Ultra Broadband ANT	R&S	HL562	100157	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2020-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-07	2020-01-06

## 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 100%.

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**3.0 Technical Details**

**3.1 Summary of test results**

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.107 &amp; 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.109,15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</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.**

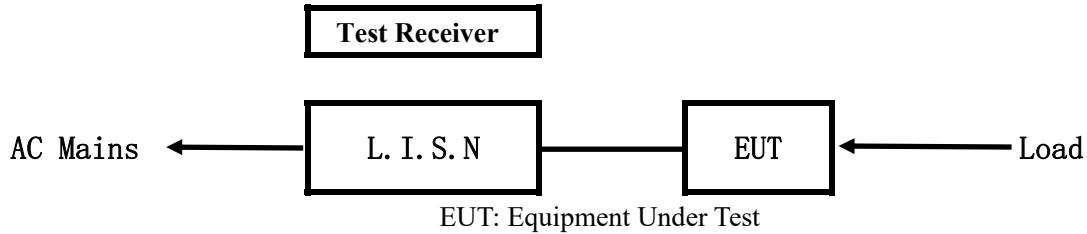
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**5.0 Power Line Conducted Emission Test**

5.1 Schematics of the test

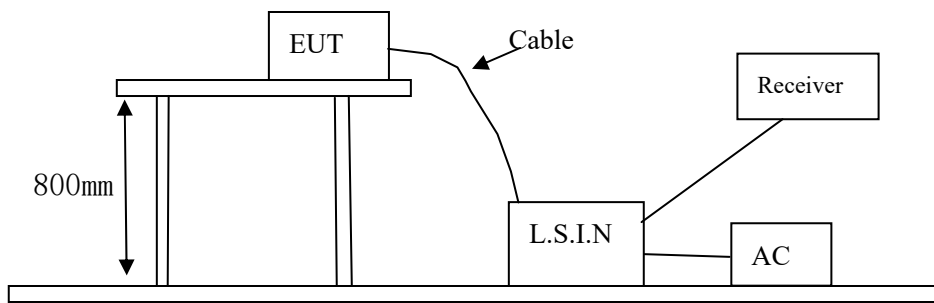


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. 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
Commercial Kiosk Tablet	GLORY STAR TECHNICS (SHENZHEN) CO., LTD.	NEB215, NEB156	2AACS-NEB15-21FOR99

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	SOY	SOY-1200500-327	Input: 100-240V~50/60Hz, 1.7A Max; Output: 12.0V 5.0A, 60.0W

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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 (MHz)	Limits (dB $\mu$ 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

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

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

**EUT Operating Environment**

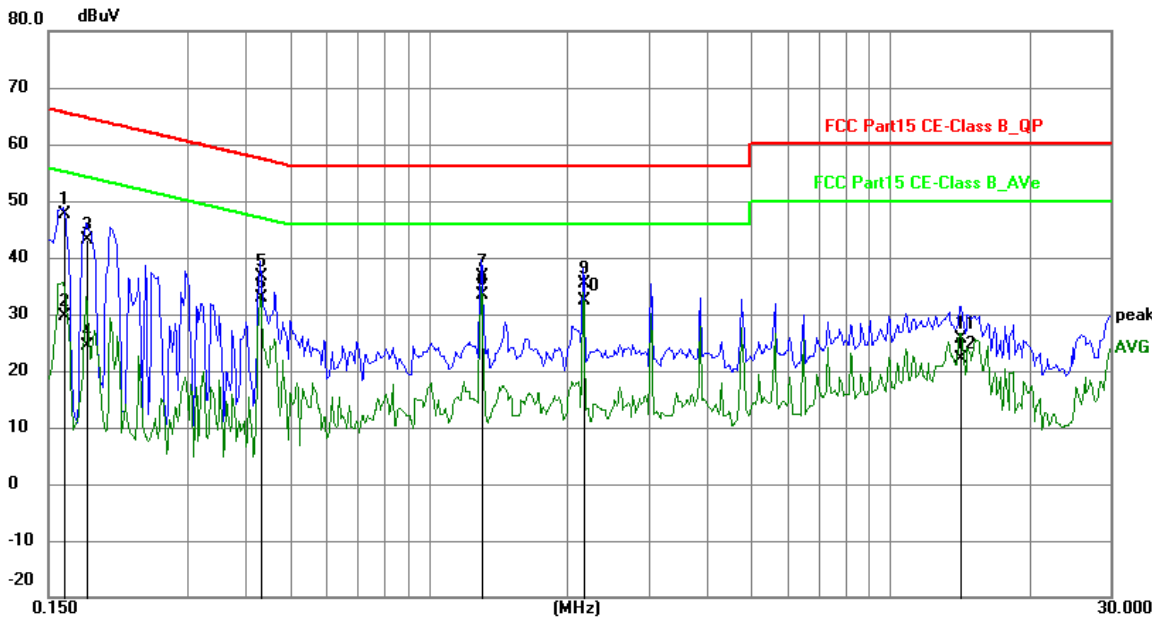
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting (NEB156)**

**Equipment Level: Class B**

**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	0.1617	37.77	9.78	47.55	65.38	-17.83	QP	P
2	0.1617	19.97	9.78	29.75	55.38	-25.63	AVG	P
3	0.1812	33.46	9.76	43.22	64.43	-21.21	QP	P
4	0.1812	14.70	9.76	24.46	54.43	-29.97	AVG	P
5	0.4308	26.74	9.77	36.51	57.24	-20.73	QP	P
6	0.4308	23.09	9.77	32.86	47.24	-14.38	AVG	P
7	1.3005	26.72	9.79	36.51	56.00	-19.49	QP	P
8	1.3005	23.67	9.79	33.46	46.00	-12.54	AVG	P
9	2.1624	25.63	9.81	35.44	56.00	-20.56	QP	P
10	2.1624	22.59	9.81	32.40	46.00	-13.60	AVG	P
11	14.2125	15.31	10.35	25.66	60.00	-34.34	QP	P
12	14.2125	11.84	10.35	22.19	50.00	-27.81	AVG	P

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

**EUT Operating Environment**

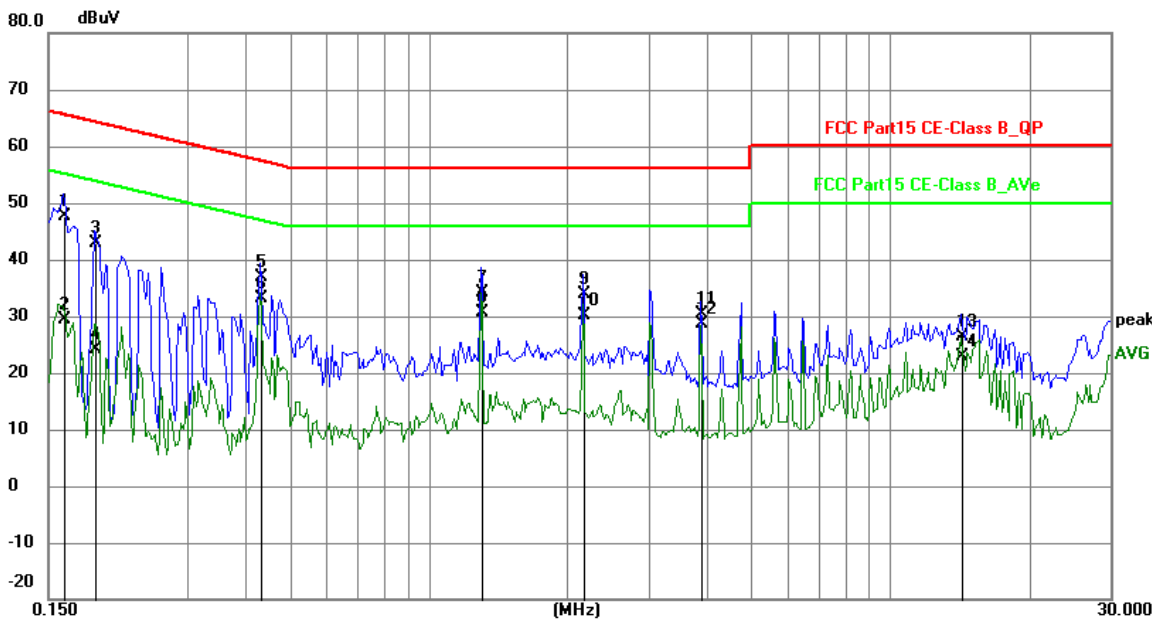
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting (NEB156)**

**Equipment Level: Class B**

**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	0.1617	37.75	9.78	47.53	65.38	-17.85	QP	P
2	0.1617	19.67	9.78	29.45	55.38	-25.93	AVG	P
3	0.1890	33.17	9.76	42.93	64.08	-21.15	QP	P
4	0.1890	14.26	9.76	24.02	54.08	-30.06	AVG	P
5	0.4308	26.99	9.77	36.76	57.24	-20.48	QP	P
6	0.4308	23.43	9.77	33.20	47.24	-14.04	AVG	P
7	1.3005	24.39	9.79	34.18	56.00	-21.82	QP	P
8	1.3005	20.93	9.79	30.72	46.00	-15.28	AVG	P
9	2.1585	24.02	9.81	33.83	56.00	-22.17	QP	P
10	2.1585	20.22	9.81	30.03	46.00	-15.97	AVG	P
11	3.8892	20.55	9.88	30.43	56.00	-25.57	QP	P
12	3.8892	18.66	9.88	28.54	46.00	-17.46	AVG	P
13	14.2710	15.94	10.35	26.29	60.00	-33.71	QP	P
14	14.2710	12.43	10.35	22.78	50.00	-27.22	AVG	P

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

**EUT Operating Environment**

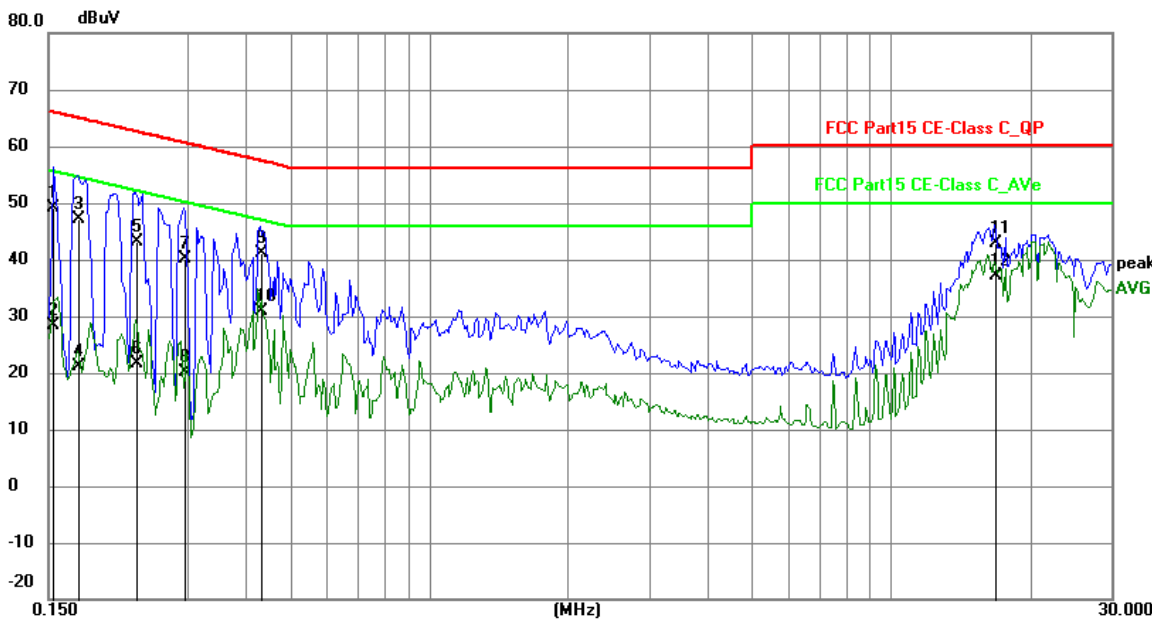
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Bluetooth Transmitting (NEB215)**

**Equipment Level: Class B**

**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	0.1539	39.42	9.78	49.20	65.79	-16.59	QP	P
2	0.1539	18.50	9.78	28.28	55.79	-27.51	AVG	P
3	0.1734	37.46	9.77	47.23	64.80	-17.57	QP	P
4	0.1734	11.36	9.77	21.13	54.80	-33.67	AVG	P
5	0.2319	33.31	9.75	43.06	62.38	-19.32	QP	P
6	0.2319	11.83	9.75	21.58	52.38	-30.80	AVG	P
7	0.2943	30.48	9.76	40.24	60.40	-20.16	QP	P
8	0.2943	10.42	9.76	20.18	50.40	-30.22	AVG	P
9	0.4308	31.37	9.77	41.14	57.24	-16.10	QP	P
10	0.4308	21.20	9.77	30.97	47.24	-16.27	AVG	P
11	16.7904	32.47	10.49	42.96	60.00	-17.04	QP	P
12	16.7904	26.70	10.49	37.19	50.00	-12.81	AVG	P

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

**EUT Operating Environment**

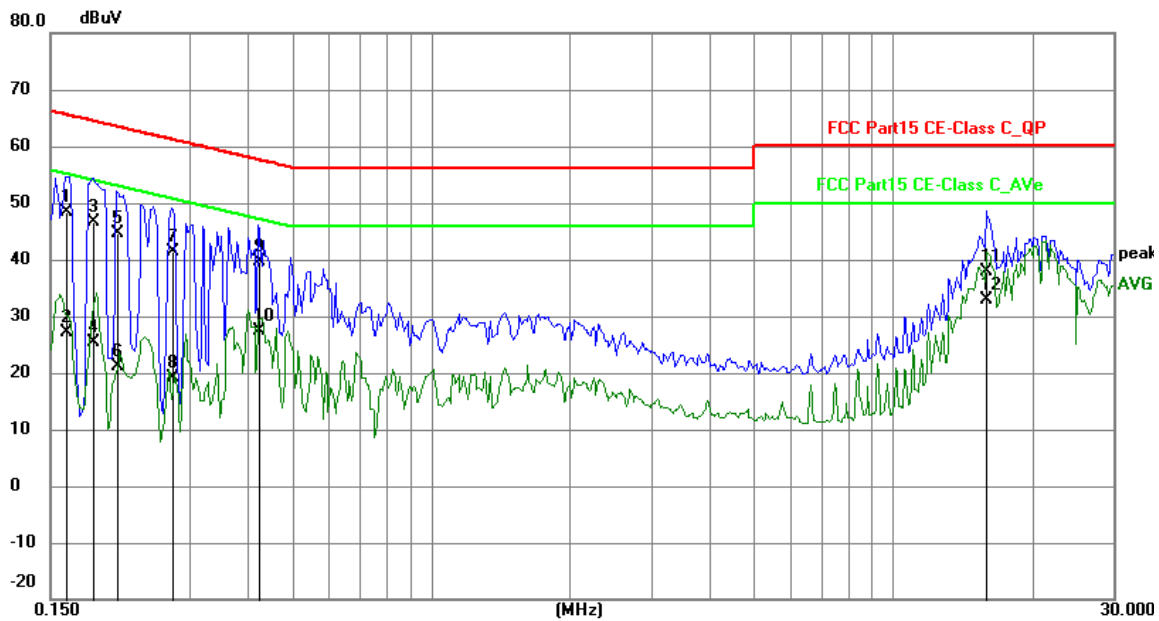
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Bluetooth Transmitting (NEB215)**

**Equipment Level: Class B**

**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	0.1617	38.65	9.78	48.43	65.38	-16.95	QP	P
2	0.1617	17.41	9.78	27.19	55.38	-28.19	AVG	P
3	0.1850	36.85	9.76	46.61	64.26	-17.65	QP	P
4	0.1850	15.66	9.76	25.42	54.26	-28.84	AVG	P
5	0.2085	34.90	9.75	44.65	63.26	-18.61	QP	P
6	0.2085	11.26	9.75	21.01	53.26	-32.25	AVG	P
7	0.2748	31.58	9.75	41.33	60.97	-19.64	QP	P
8	0.2748	9.43	9.75	19.18	50.97	-31.79	AVG	P
9	0.4230	29.87	9.76	39.63	57.39	-17.76	QP	P
10	0.4230	17.66	9.76	27.42	47.39	-19.97	AVG	P
11	15.9129	27.40	10.43	37.83	60.00	-22.17	QP	P
12	15.9129	22.45	10.43	32.88	50.00	-17.12	AVG	P

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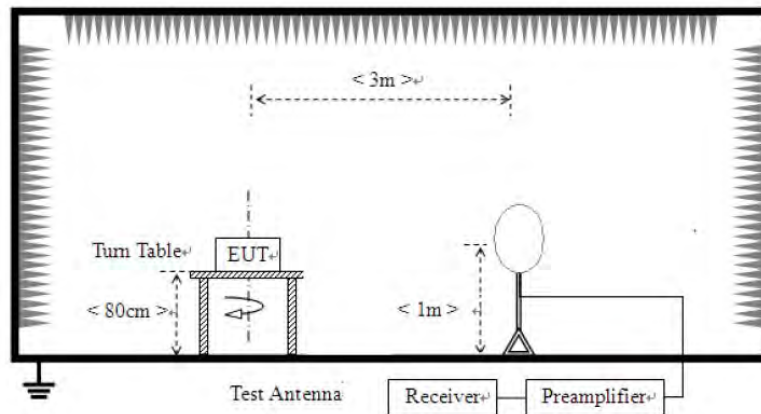
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. 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. 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

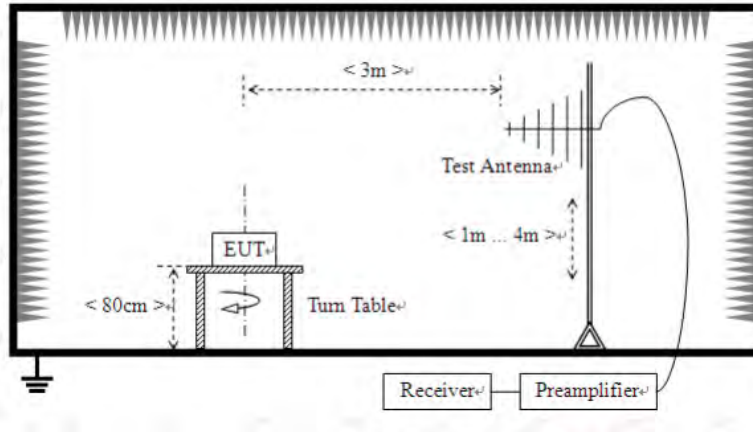


The report refers only to the sample tested and does not apply to the bulk.

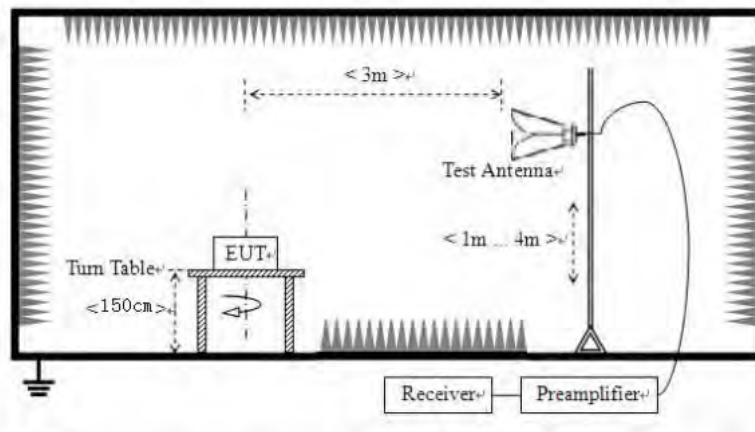
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For radiated emissions from 30MHz to 1GHz



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 $\mu$ V/m)
30-88	3	40.0
88-21	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. 802.11b was the worst case.**

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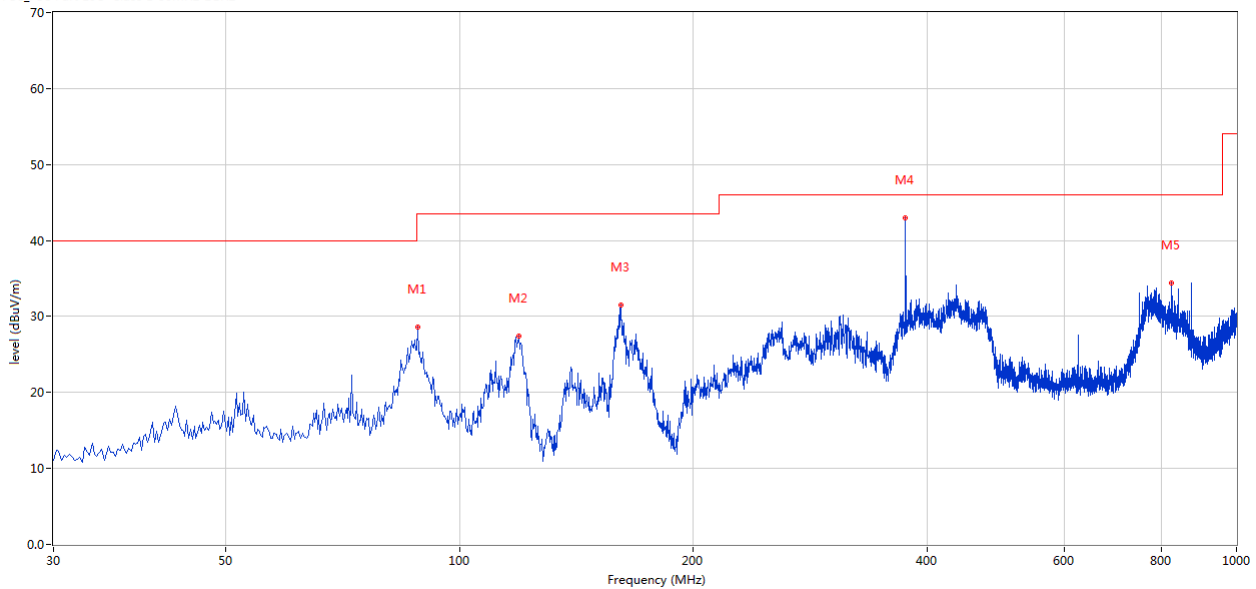
**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: **Keep Transmitting**  
 Model: **NEB156**  
 Results: **Pass**

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	88.428	28.67	-15.55	43.5	-14.83	Peak	112.00	100	Horizontal	Pass
2	119.218	27.41	-15.13	43.5	-16.09	Peak	112.00	100	Horizontal	Pass
3	161.160	31.45	-16.36	43.5	-12.05	Peak	302.00	100	Horizontal	Pass
4	374.991	43.04	-9.44	46.0	-2.96	Peak	0.00	100	Horizontal	Pass
5	824.474	34.36	-2.88	46.0	-11.64	Peak	48.00	100	Horizontal	Pass

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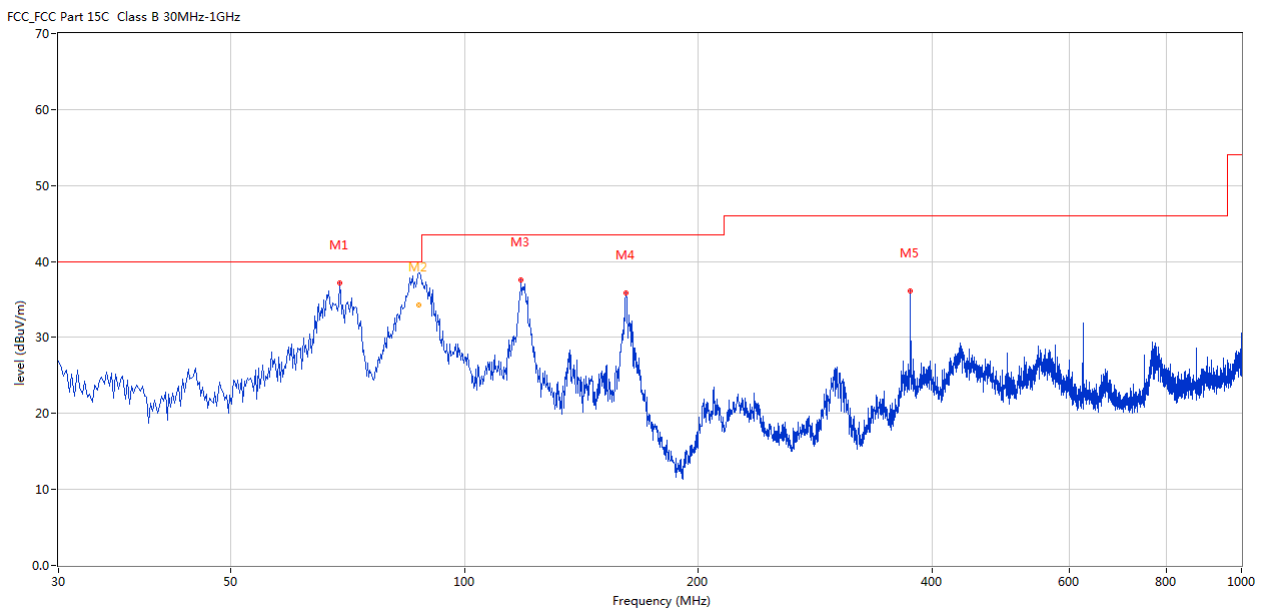


**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: **Keep Transmitting**  
 Model: **NEB156**  
 Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	69.033	37.19	-15.24	40.0	-2.81	Peak	104.00	100	Vertical	Pass
2	87.281	37.58	-15.72	40.0	-2.42	Peak	170.00	138	Vertical	Pass
2*	87.281	34.29	-15.72	40.0	-5.71	QP	170.00	138	Vertical	Pass
3	118.248	37.53	-14.95	43.5	-5.97	Peak	36.00	100	Vertical	Pass
4	161.402	35.87	-16.37	43.5	-7.63	Peak	39.00	100	Vertical	Pass
5	374.991	36.08	-9.44	46.0	-9.92	Peak	101.00	100	Vertical	Pass

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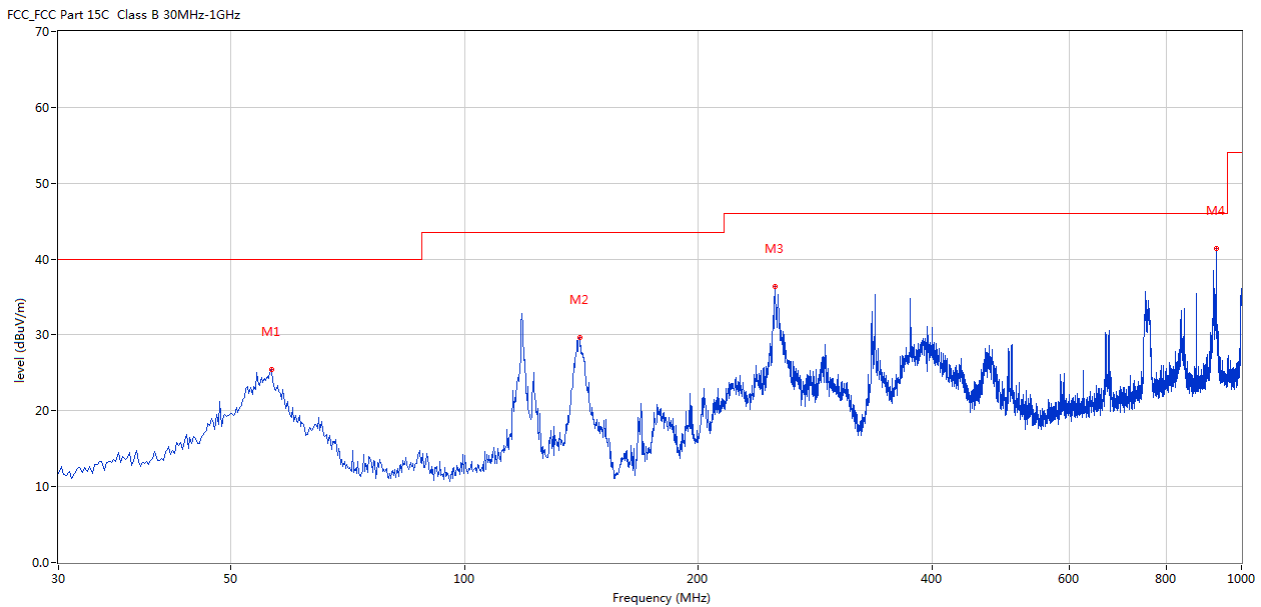


**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: **Keep Transmitting**  
 Model: **NEB215**  
 Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	56.426	25.49	-12.15	40.0	-14.51	Peak	73.00	100	Horizontal	Pass
2	140.552	29.66	-17.24	43.5	-13.84	Peak	59.00	100	Horizontal	Pass
3	250.620	36.33	-12.04	46.0	-9.67	Peak	336.00	100	Horizontal	Pass
4	928.238	41.39	-1.69	46.0	-4.61	Peak	301.00	100	Horizontal	Pass

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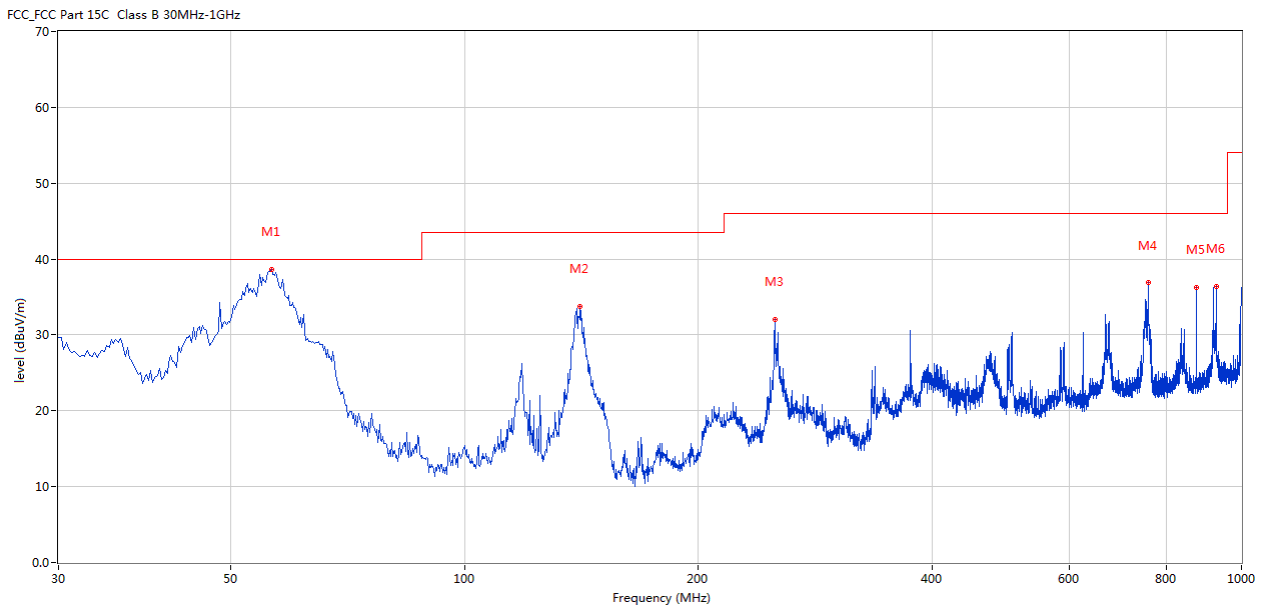


**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: **Keep Transmitting**  
 Model: **NEB215**  
 Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	56.426	38.67	-12.15	40.0	-1.33	Peak	360.00	200	Vertical	Pass
2	140.795	33.76	-17.25	43.5	-9.74	Peak	264.00	100	Vertical	Pass
3	250.620	32.02	-12.04	46.0	-13.98	Peak	267.00	200	Vertical	Pass
4	759.743	36.85	-3.28	46.0	-9.15	Peak	360.00	200	Vertical	Pass
5	875.144	36.31	-2.17	46.0	-9.69	Peak	360.00	200	Vertical	Pass
6	928.480	36.36	-1.70	46.0	-9.64	Peak	360.00	200	Vertical	Pass

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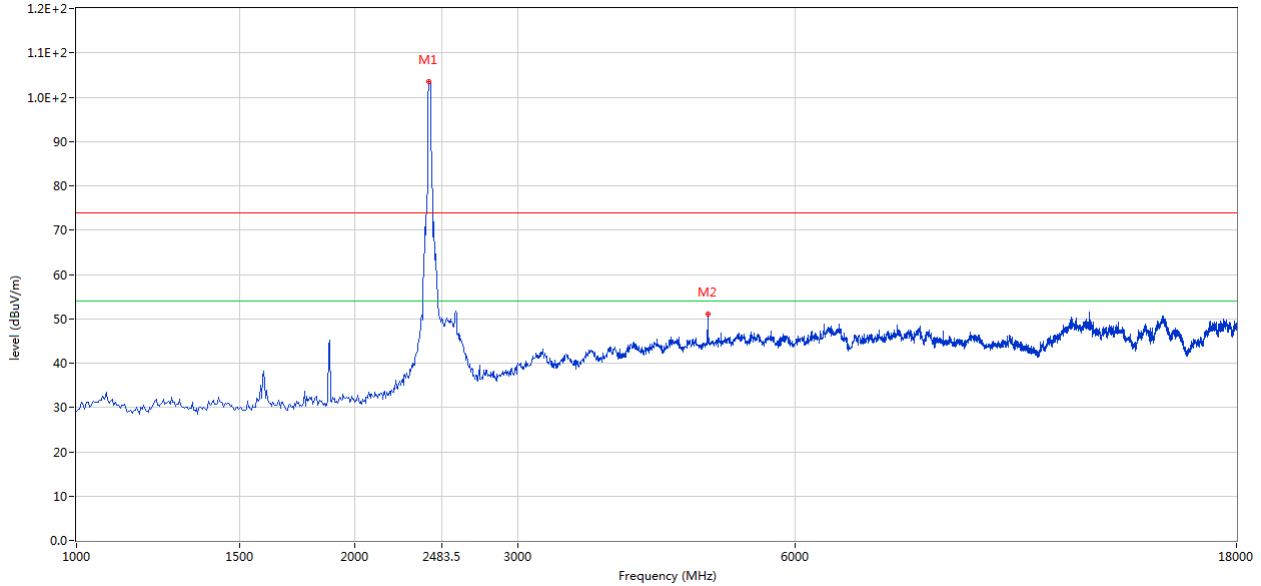
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Please refer to the following test plots for details:

**CH01 for 11b at 1Mbps: Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4825.000	50.96	3.15	54.0	-3.04	Peak	187.00	100	Horizontal	Pass

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

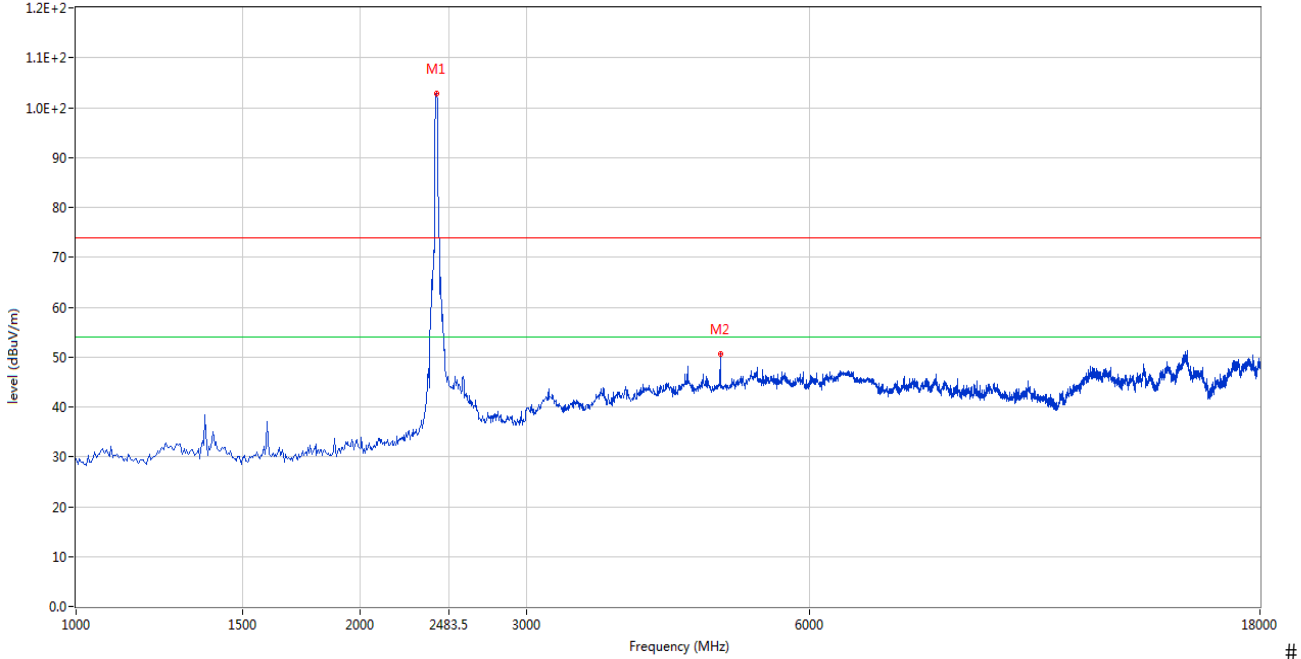
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**CH01 for 11b at 1Mbps: Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



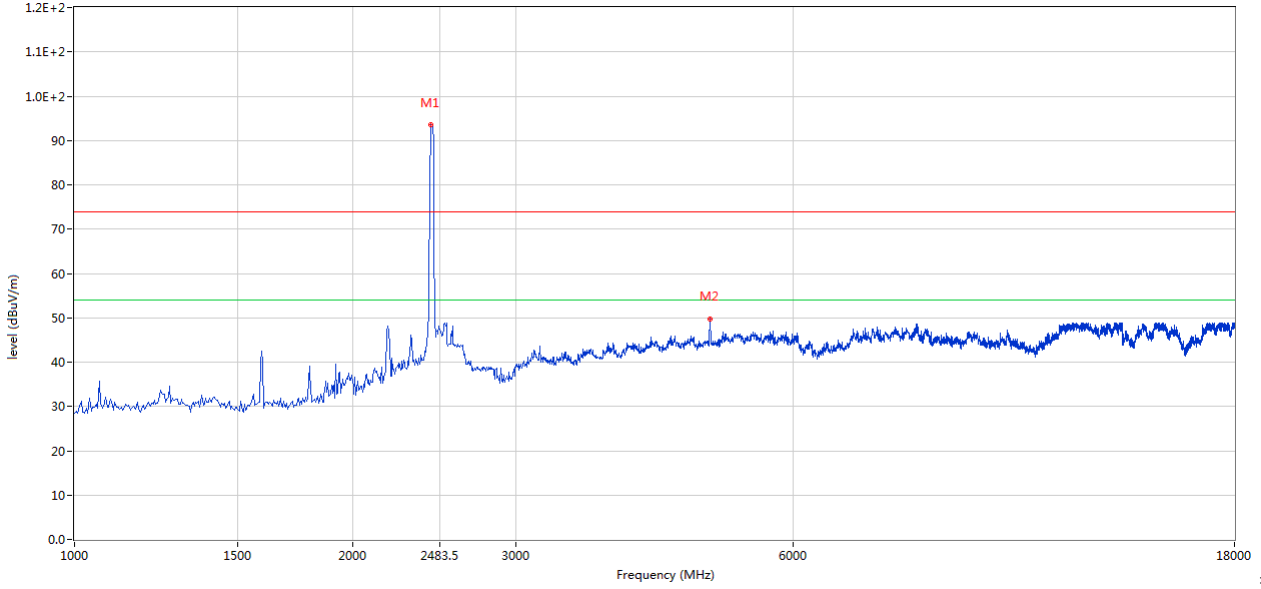
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4825.000	50.56	3.15	54.0	-3.44	Peak	197.00	100	Vertical	Pass

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**CH06 for 11b at 1Mbps: Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4871.750	49.62	3.19	54.0	-4.38	Peak	159.00	100	Vertical	Pass

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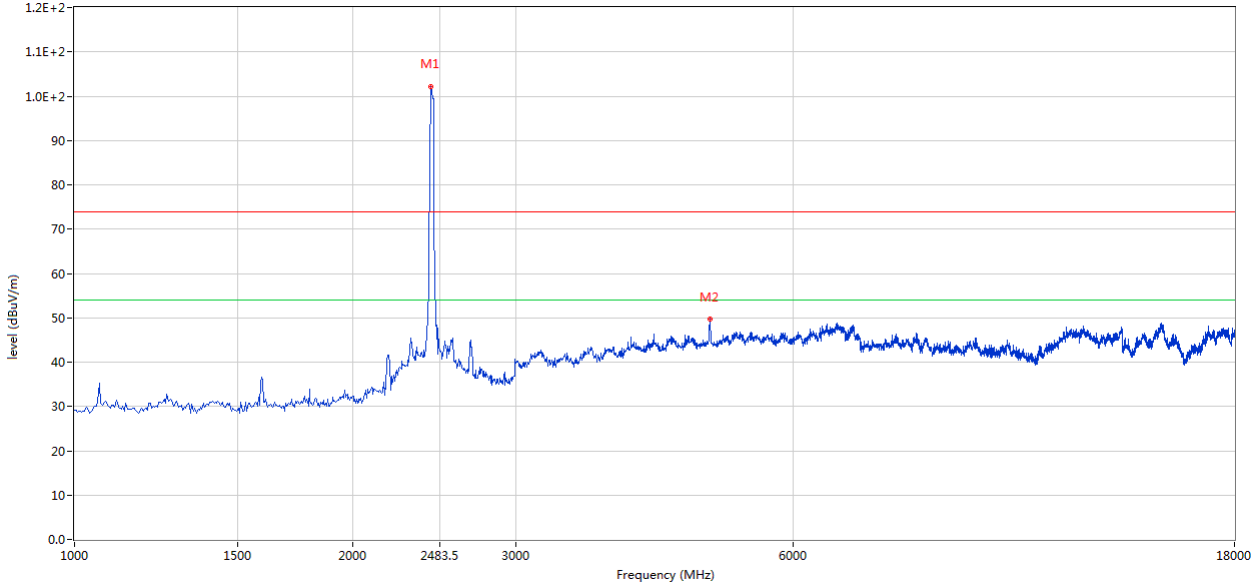
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**CH06 for 11b at 1Mbps: Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4867.500	49.73	3.19	54.0	-4.27	Peak	314.00	100	Horizontal	Pass

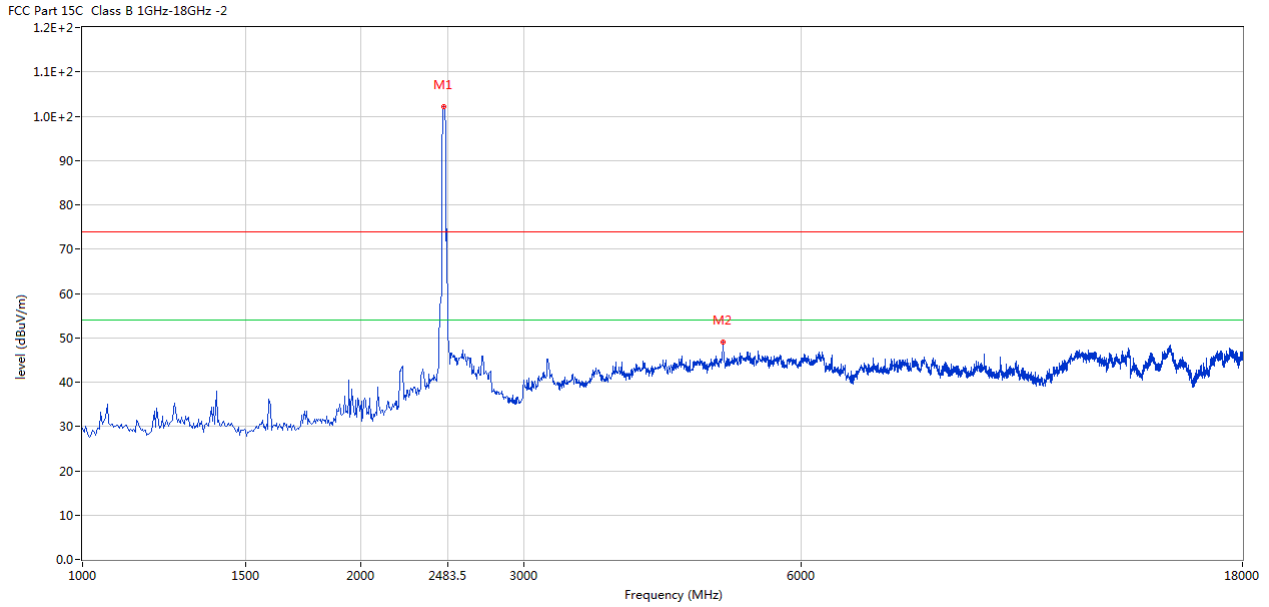
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**CH11 for 11b at 1Mbps: Vertical**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4935.500	49.09	3.30	54.0	-4.91	Peak	91.00	100	Vertical	Pass

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

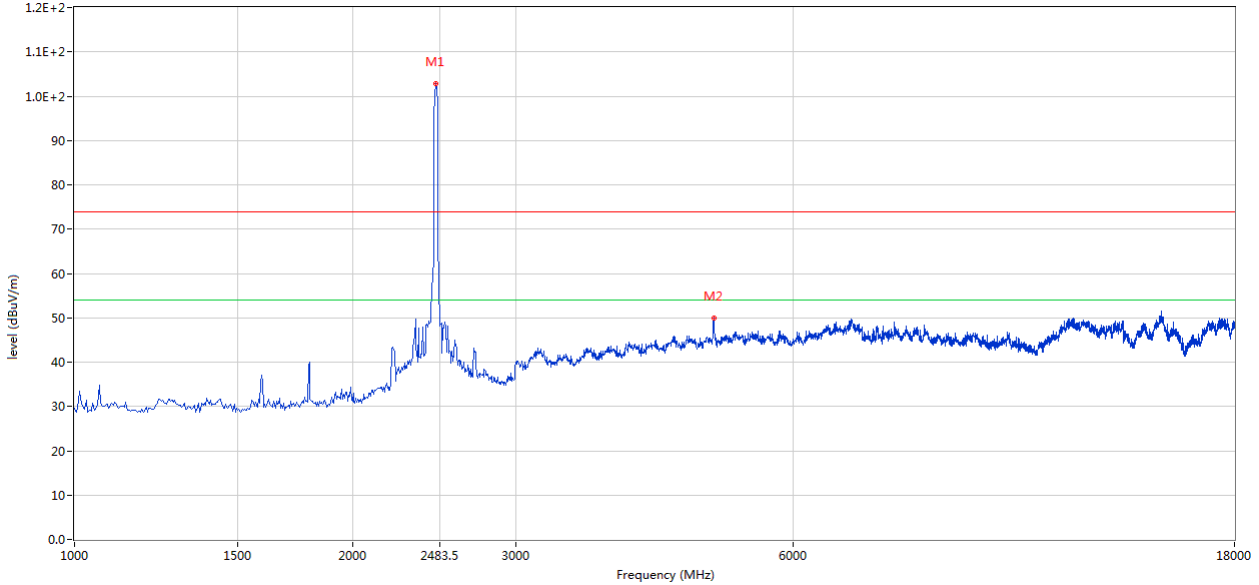
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**CH11 for 11g at 6Mbps: Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4922.750	50.05	3.27	54.0	-3.95	Peak	218.00	100	Horizontal	Pass

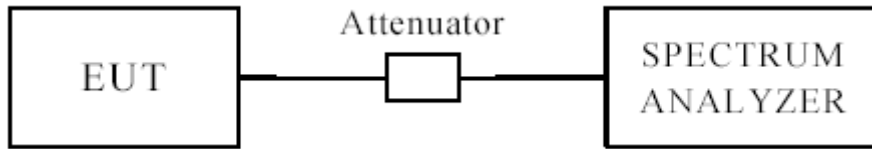
- Note: 1. Result Level = Reading + Factor  
 2. Factor= AF + Cable Loss- Preamp  
 3. Margin = Result- Limit  
 4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise.  
 5. The peak value less than the AV limit, no necessary to take down the AV measurement result.

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

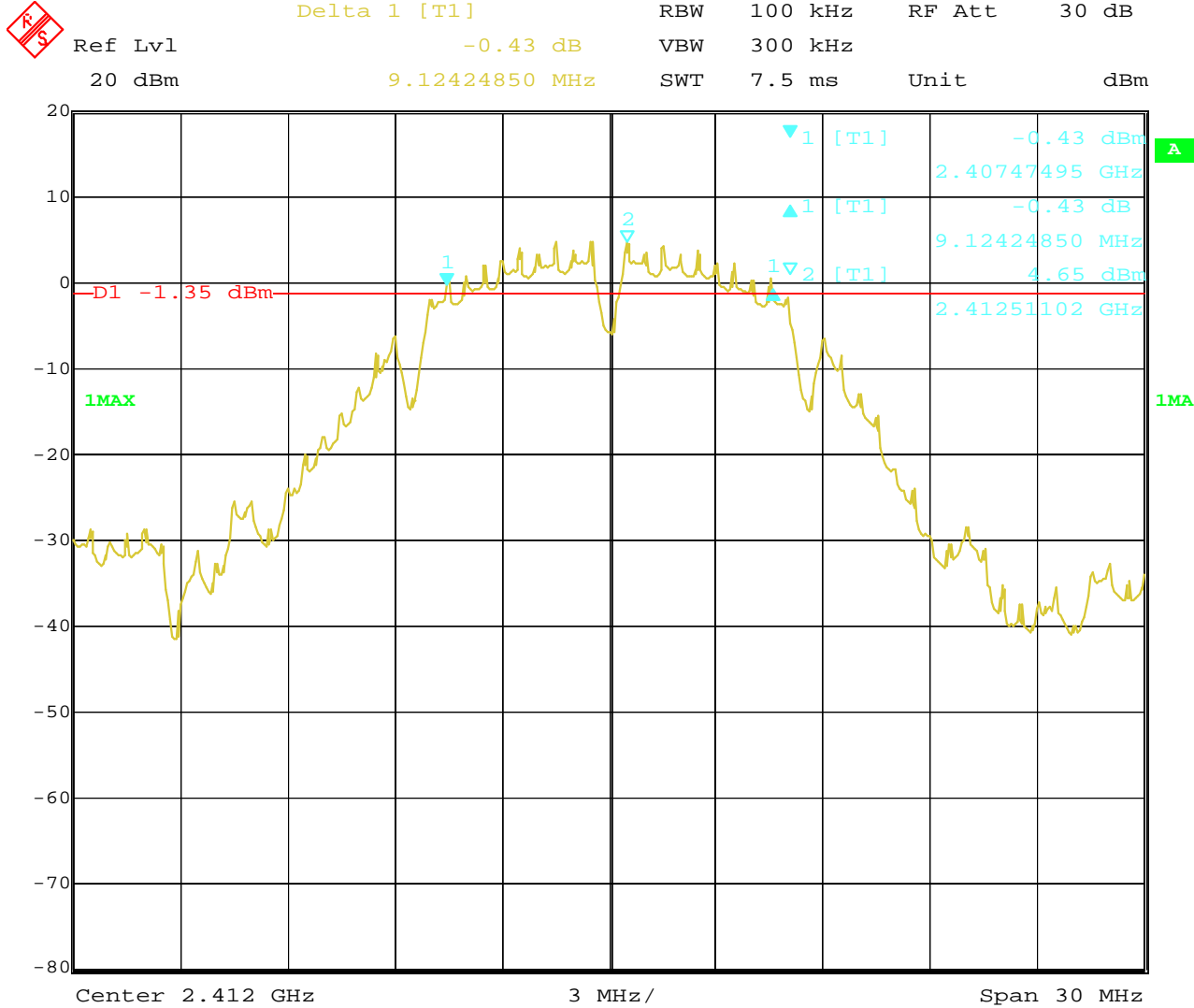
EUT		Commercial Kiosk Tablet		Model	NEB215
Mode		802.11b		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	9.12	0.5	Pass
6	2437	1	9.12	0.5	Pass
11	2462	1	9.12	0.5	Pass
1	2412	11	9.31	0.5	Pass
6	2437	11	9.31	0.5	Pass
11	2462	11	9.31	0.5	Pass

Note: Two antennas were tested and only the worst case was recorded in the test report. Ant 0 was the worst case.

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1. 802.11b at 1Mbps of CH01



Date: 10.DEC.2020 17:56:20

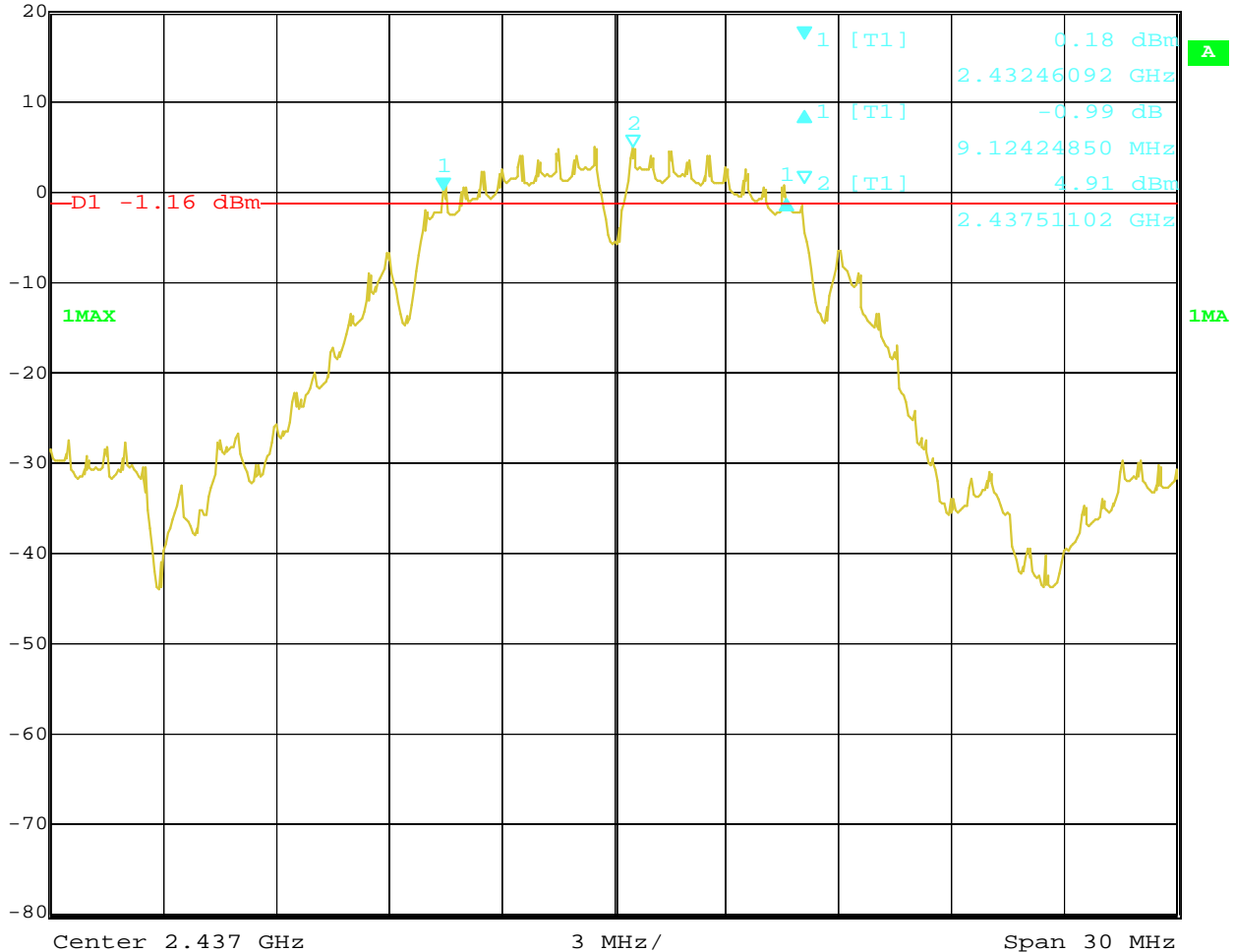
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2. 802.11b at 1Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.99 dB	VBW	300 kHz	Unit	dBm
	9.12424850 MHz	SWT	7.5 ms		



Date: 10.DEC.2020 17:57:40

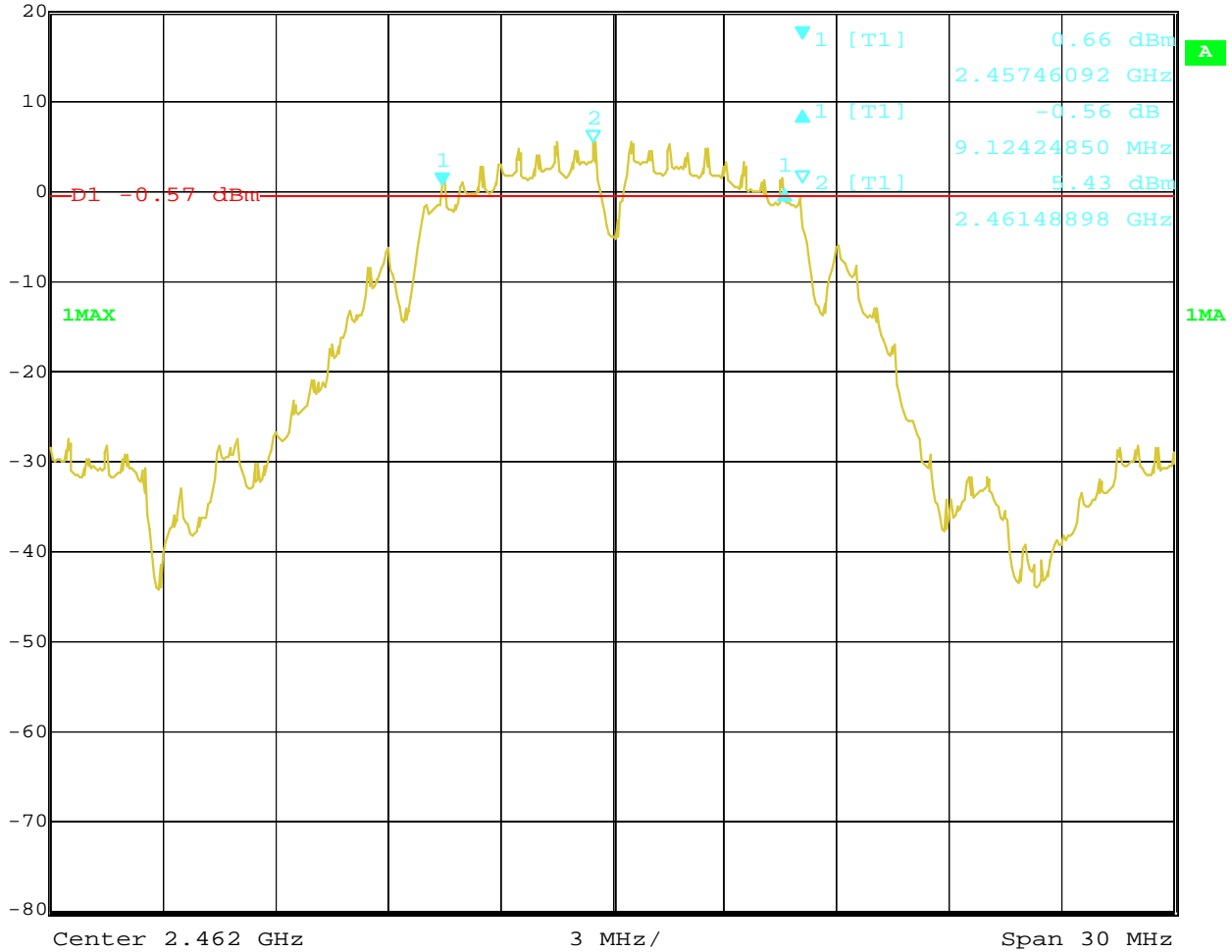
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3. 802.11b at 1Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	-0.56 dB	VBW	300 kHz	Unit	dBm
	9.12424850 MHz	SWT	7.5 ms		



Date: 10.DEC.2020 17:59:05

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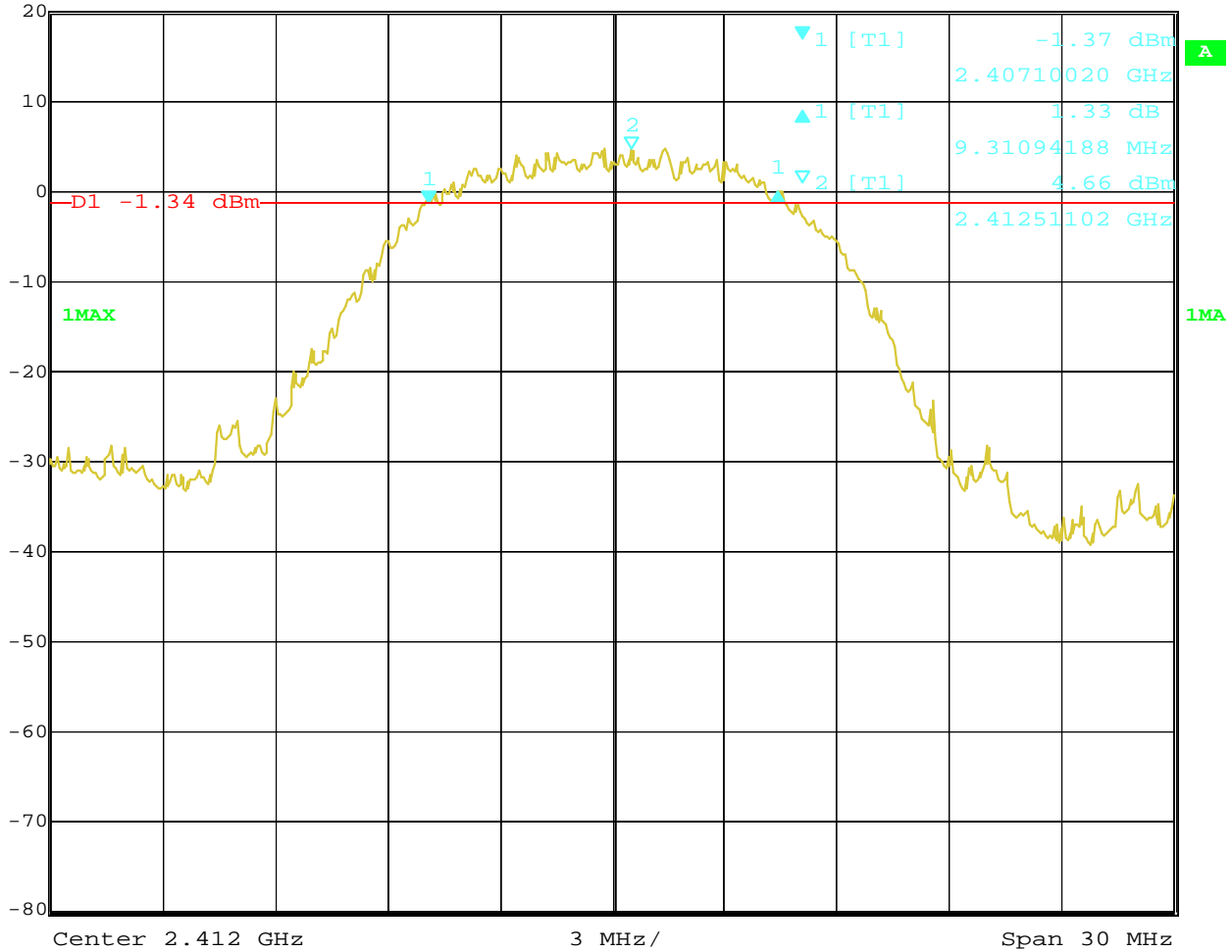




4. 802.11b at 11Mbps of CH01



	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	1.33 dB	VBW	300 kHz		
20 dBm	9.31094188 MHz	SWT	7.5 ms	Unit	dBm



Date: 10.DEC.2020 18:07:14

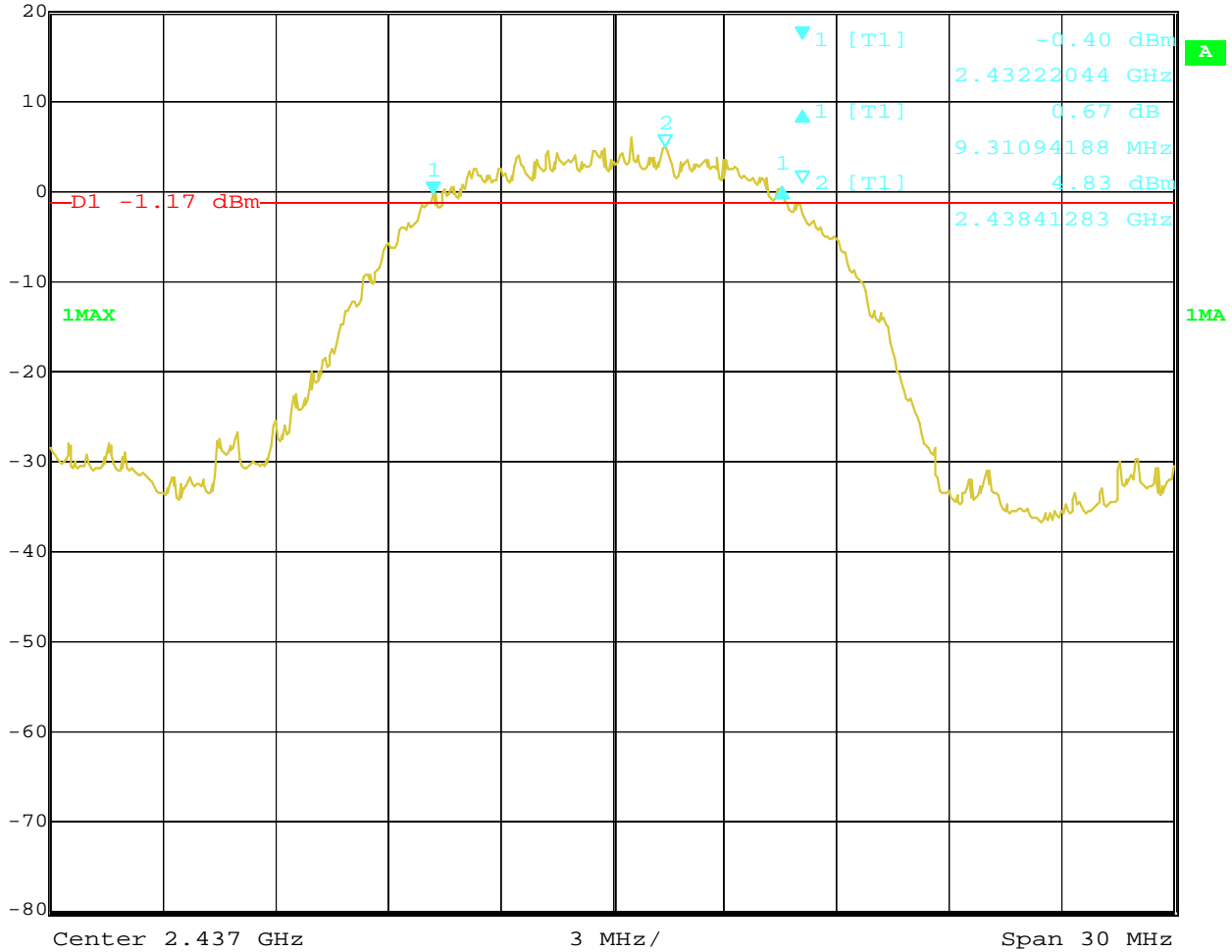
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5. 802.11b at 11Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.67 dB	VBW	300 kHz	Unit	dBm
	9.31094188 MHz	SWT	7.5 ms		



Date: 10.DEC.2020 18:05:45

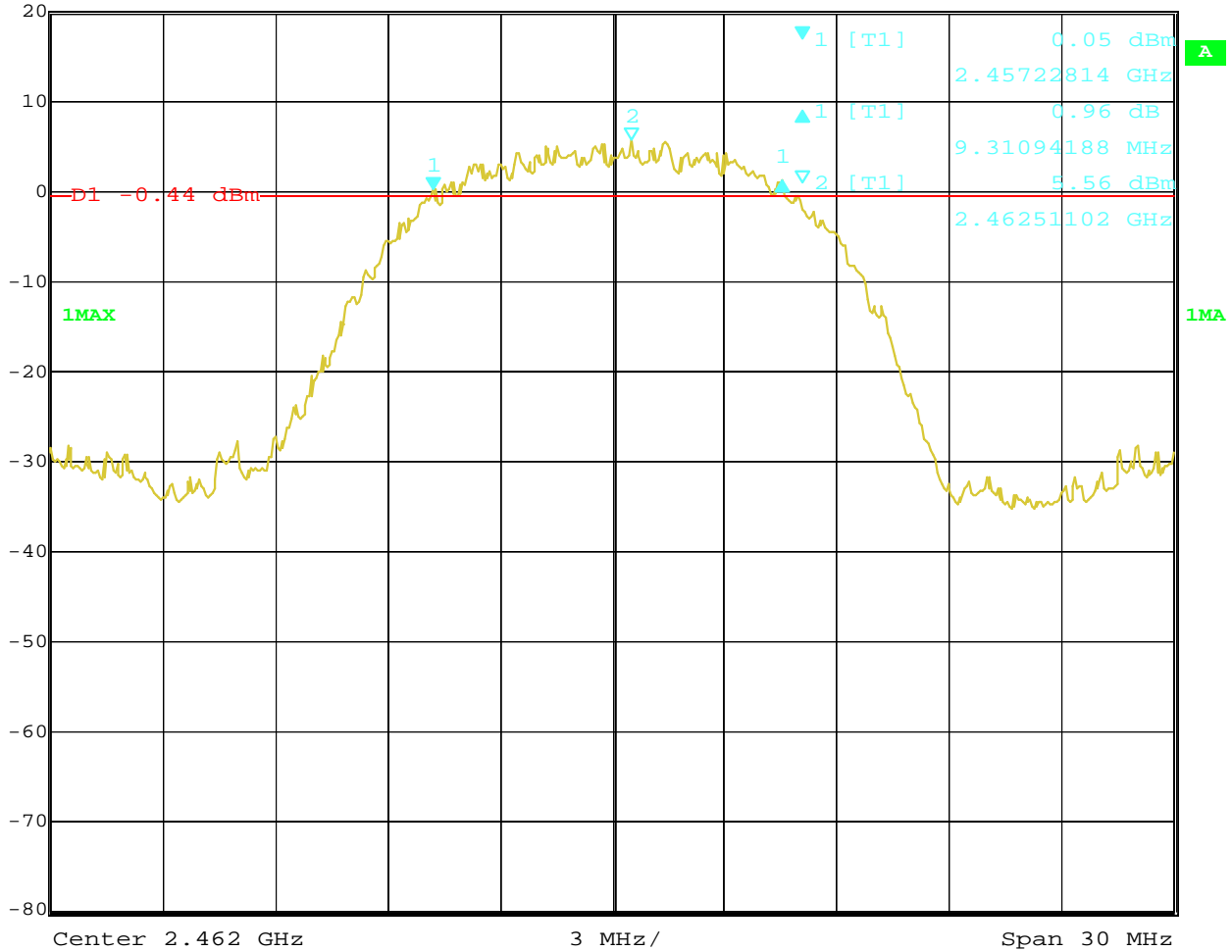
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6. 802.11b at 11Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
20 dBm	0.96 dB	VBW	300 kHz	Unit	dBm
	9.31094188 MHz	SWT	7.5 ms		



Date: 10.DEC.2020 18:03:56

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**6dB Occupied Bandwidth**

EUT		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6	16.29	0.5	Pass		
6	2437	6	16.29	0.5	Pass		
11	2462	6	16.29	0.5	Pass		

Note: Two antennas were tested and only the worst cased was recorded in the test report. Ant 0 was the worst case.

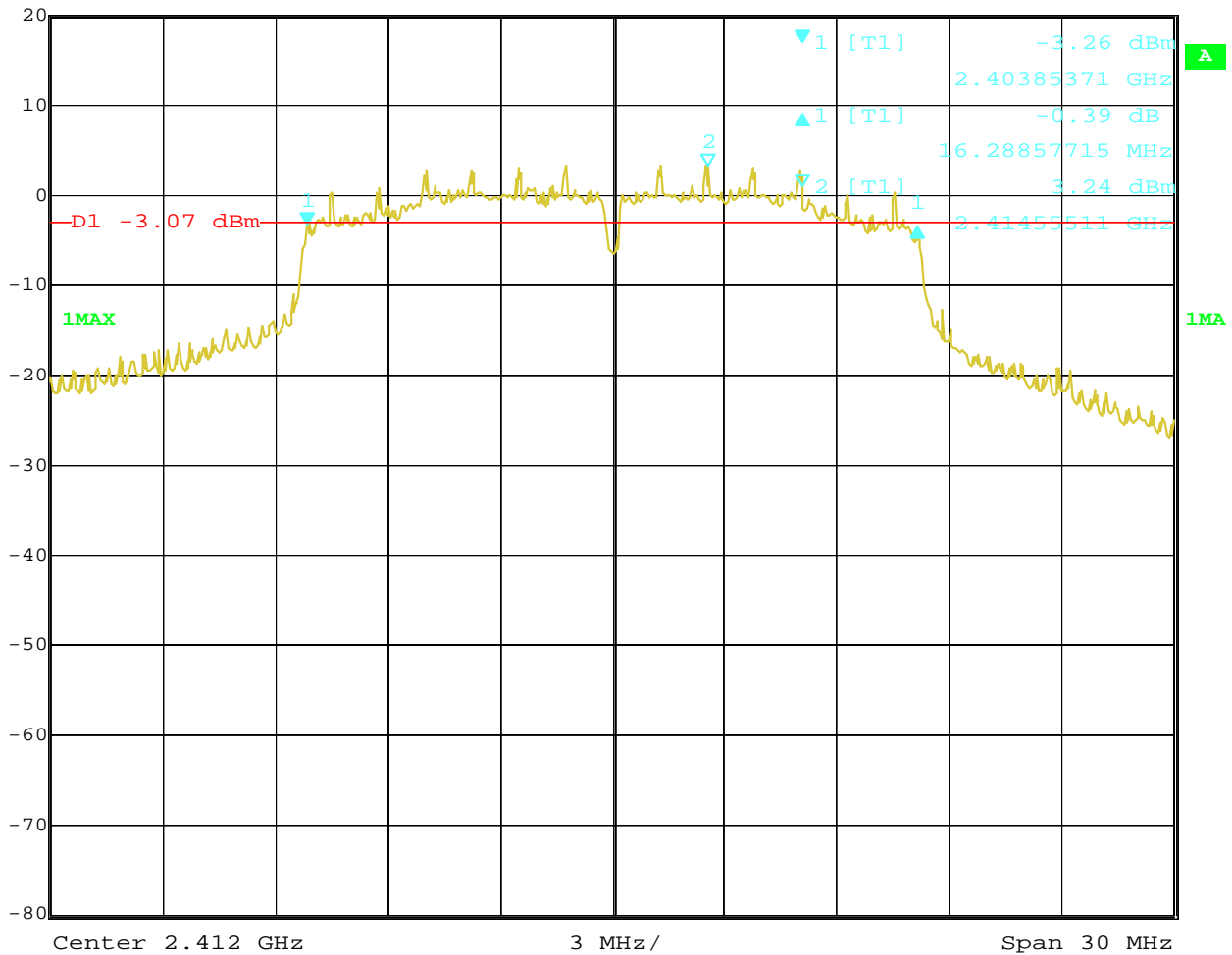
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**Test Plots:**

**1. 802.11g at 6Mbps of CH01**

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.39 dB	VBW	300 kHz	
	20 dBm	16.28857715 MHz	SWT	7.5 ms	Unit dBm



Date: 10.DEC.2020 17:44:48

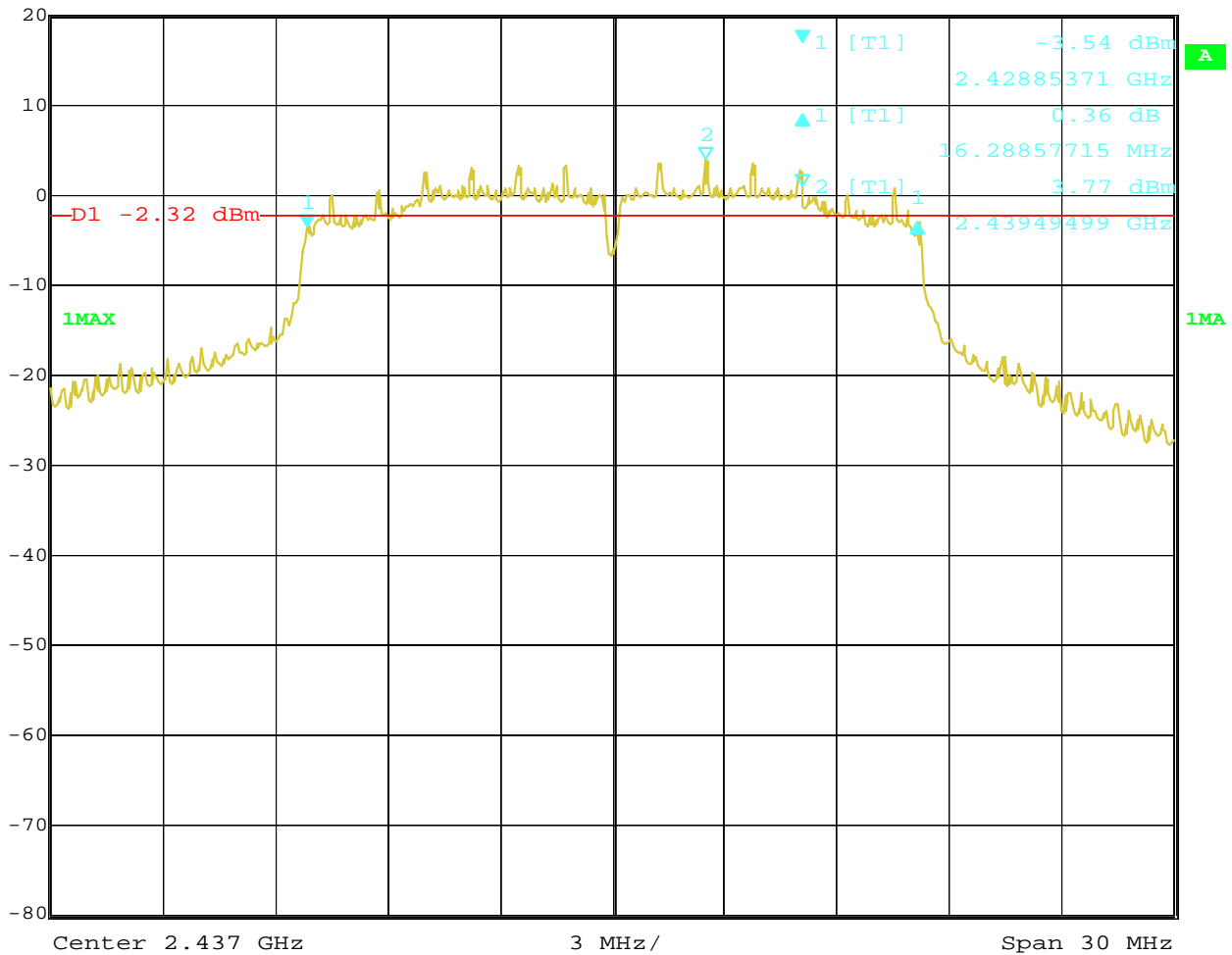
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2. 802.11g at 6Mbps of CH06



Delta 1 [T1] RBW 100 kHz RF Att 30 dB  
 Ref Lvl 0.36 dB VBW 300 kHz  
 20 dBm 16.28857715 MHz SWT 7.5 ms Unit dBm



Date: 10.DEC.2020 17:47:18

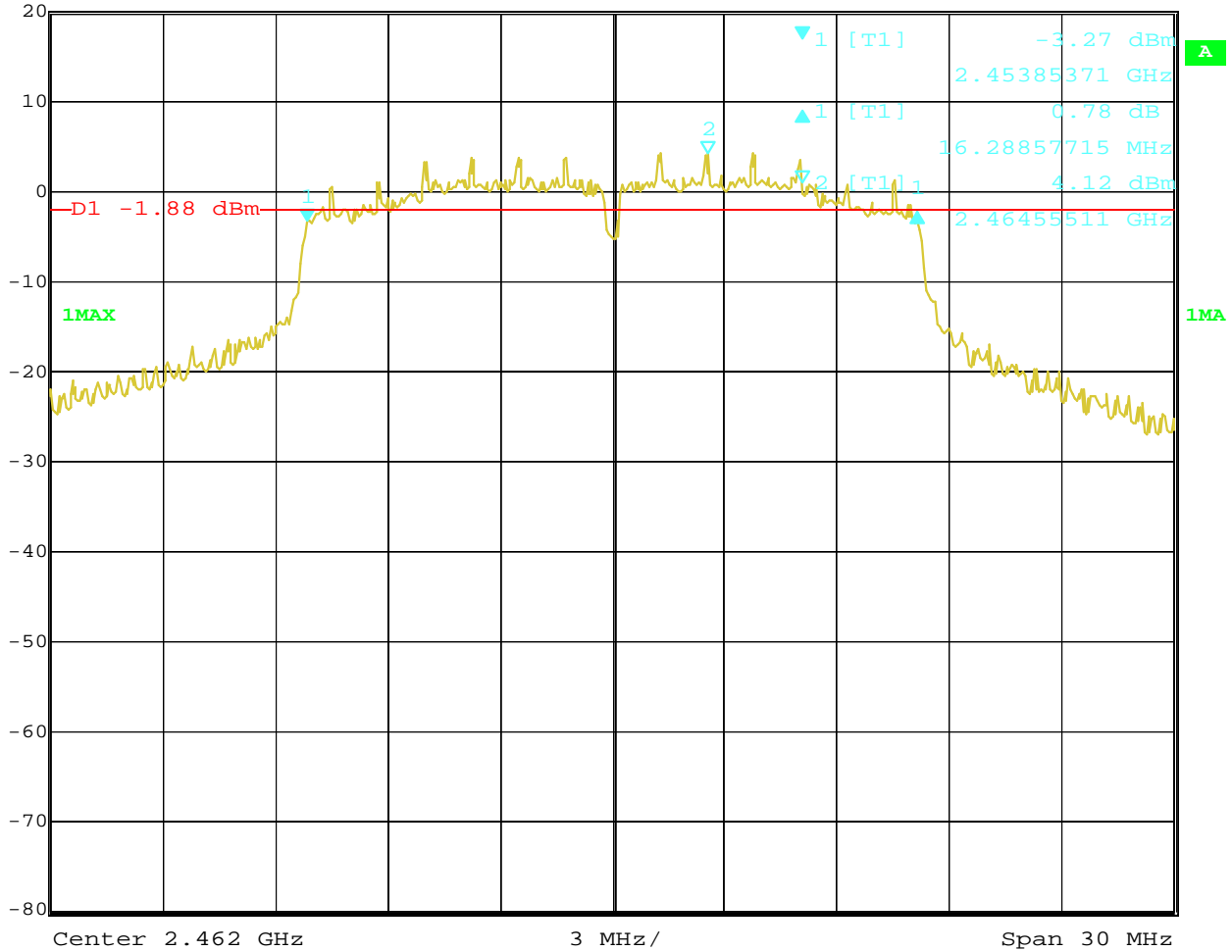
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3. 802.11g at 6Mbps of CH11



	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	0.78 dB	VBW	300 kHz		
20 dBm	16.28857715 MHz	SWT	7.5 ms	Unit	dBm



Date: 10.DEC.2020 17:49:10

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**6dB Occupied Bandwidth**

EUT		Commercial Kiosk Tablet		Model	NEB215
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	16.68	0.5	Pass
6	2437	mcs0	16.68	0.5	Pass
11	2462	mcs0	16.68	0.5	Pass

Note: Two antennas were tested and only the worst cased was recorded in the test report. Ant 0 was the worst case.

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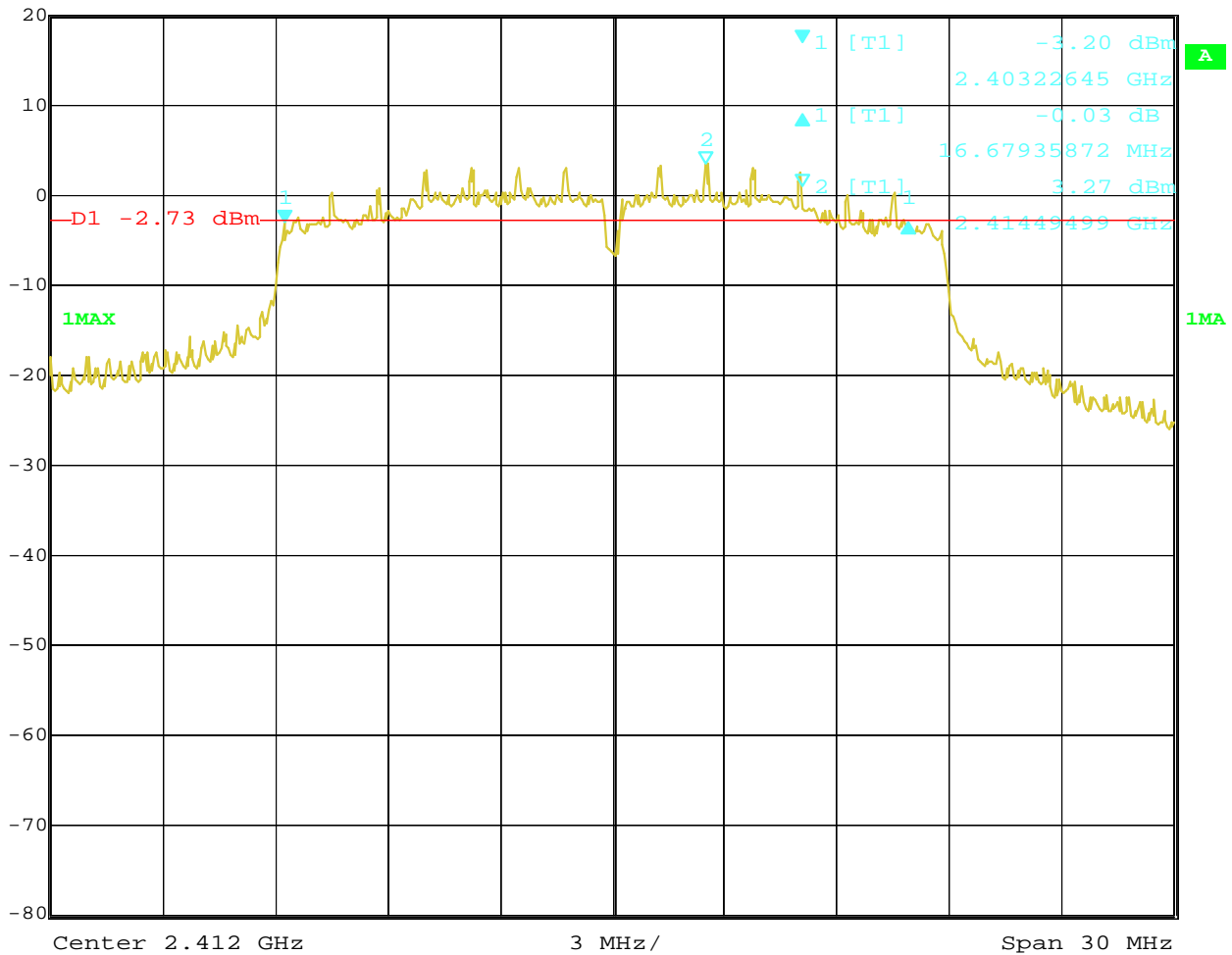




**Test Plots:**

**1. 802.11n at HT20 of CH01**

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.03 dB	VBW	300 kHz	
	20 dBm	16.67935872 MHz	SWT	7.5 ms	Unit dBm



Date: 10.DEC.2020 18:14:51

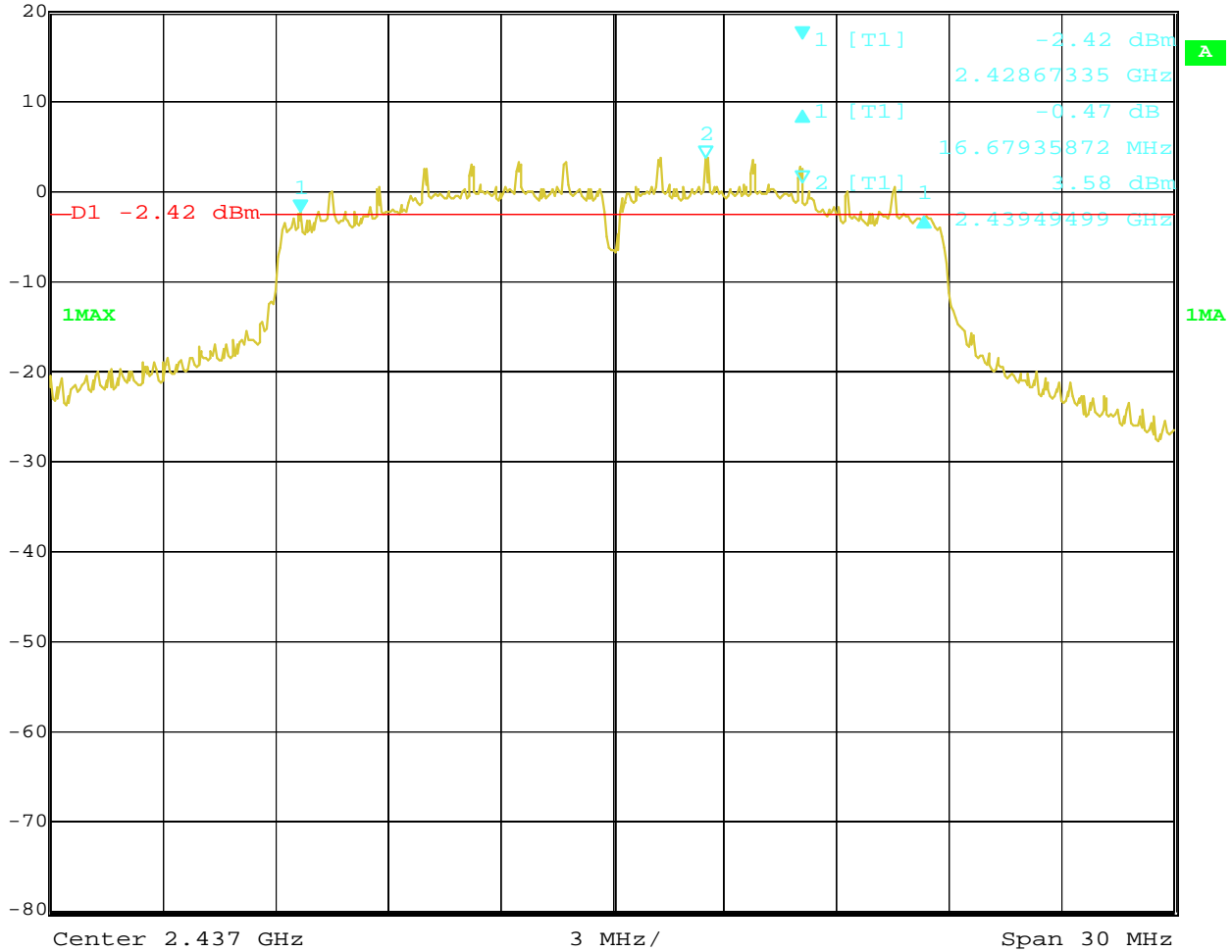
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2. 802.11n at HT20 of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.47 dB	VBW	300 kHz		
20 dBm	16.67935872 MHz	SWT	7.5 ms	Unit	dBm



Date: 10.DEC.2020 18:17:07

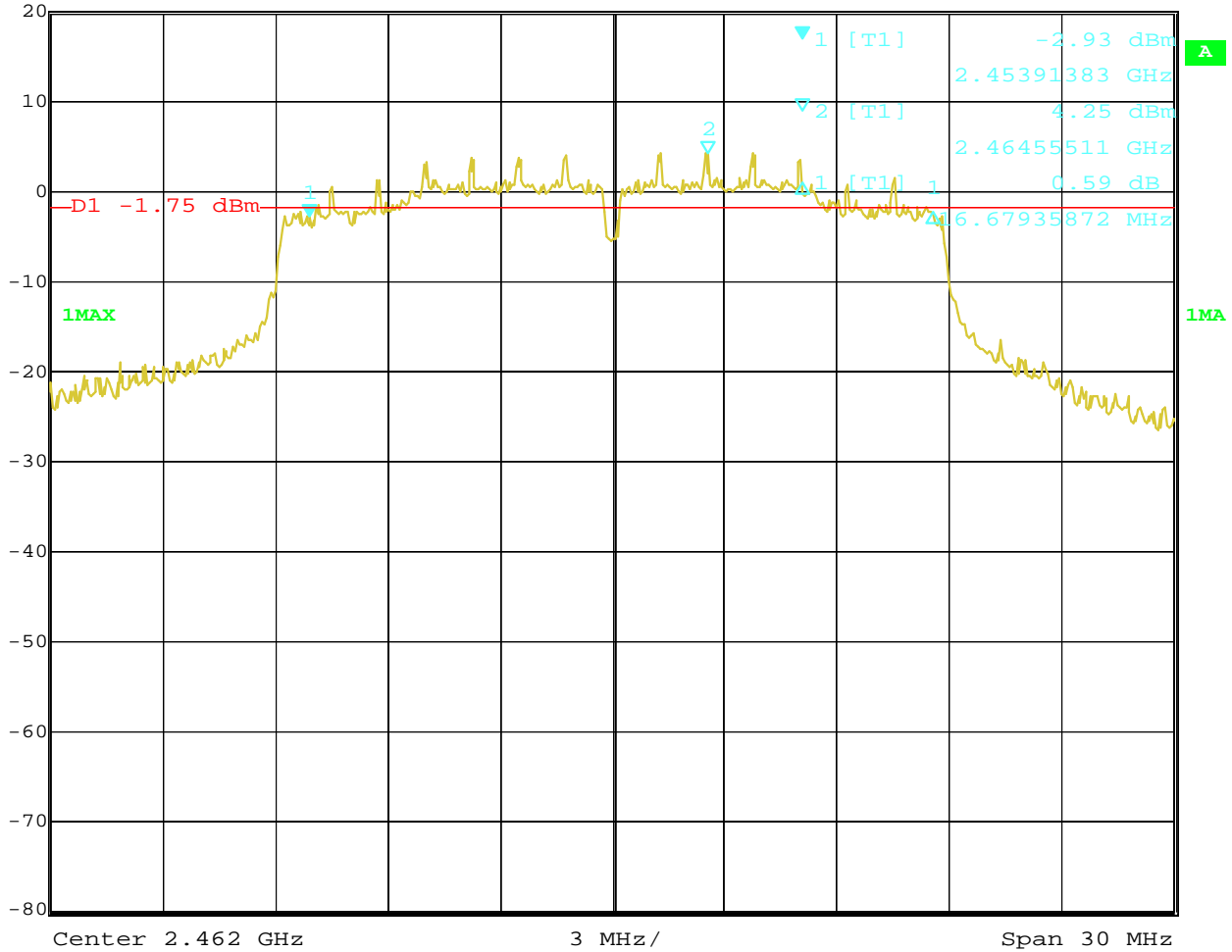
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3. 802.11n at HT20 of CH11



Ref Lvl	20 dBm	Marker 1 [T1]	-2.93 dBm	RBW	100 kHz	RF Att	30 dB
			2.45391383 GHz	VBW	300 kHz	Unit	dBm
				SWT	7.5 ms		



Date: 10.DEC.2020 18:20:36

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**6dB Occupied Bandwidth**

EUT		Commercial Kiosk Tablet		Model	NEB215
Mode		802.11n HT40		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
3	2422	mcs0	35.17	0.5	Pass
6	2437	mcs0	35.17	0.5	Pass
9	2452	mcs0	35.17	0.5	Pass

Note: Two antennas were tested and only the worst cased was recorded in the test report. Ant 0 was the worst case.

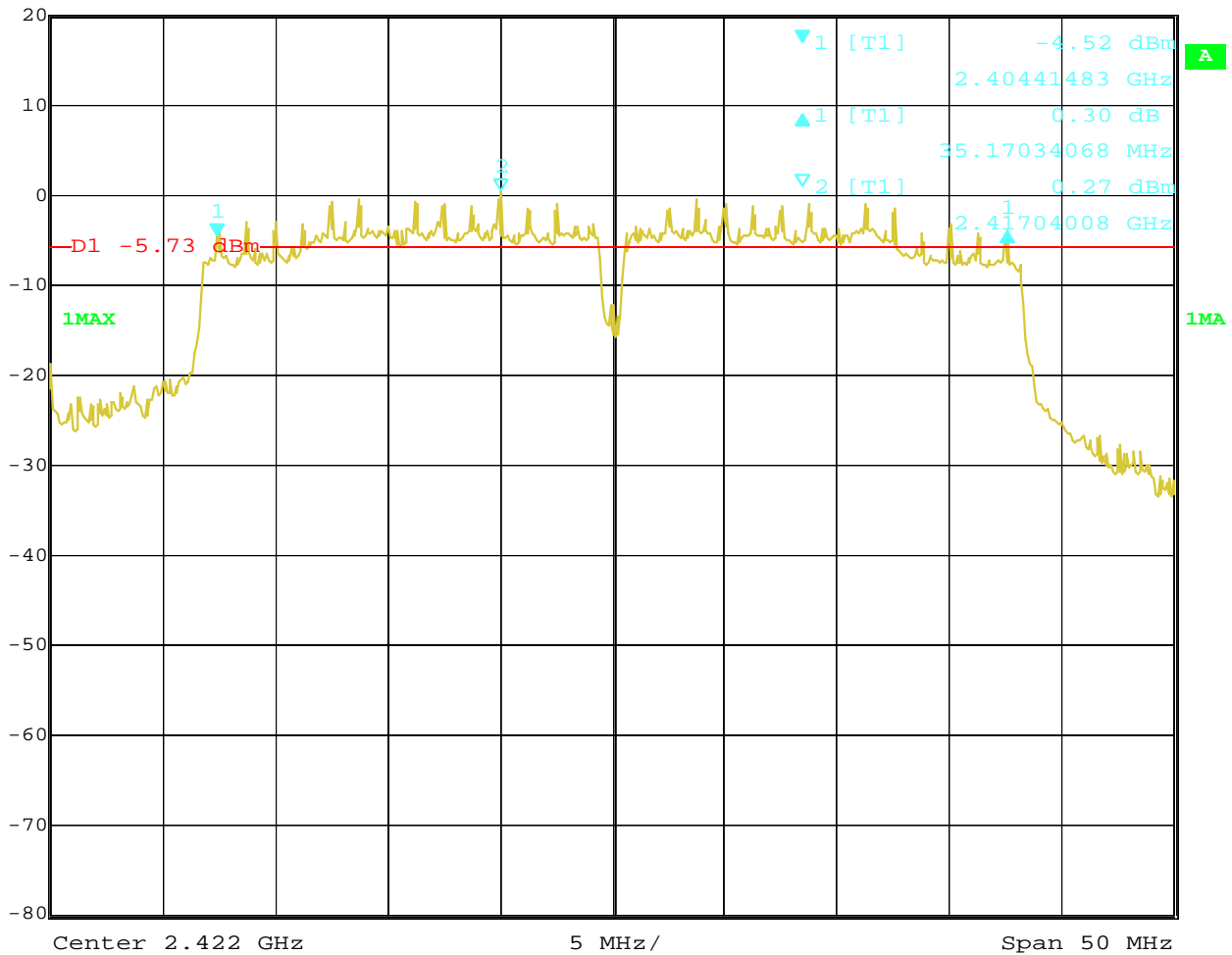
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**Test Plots:**

**1. 802.11n at HT40 of CH03**

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	0.30 dB	VBW	300 kHz	
	20 dBm	35.17034068 MHz	SWT	12.5 ms	Unit

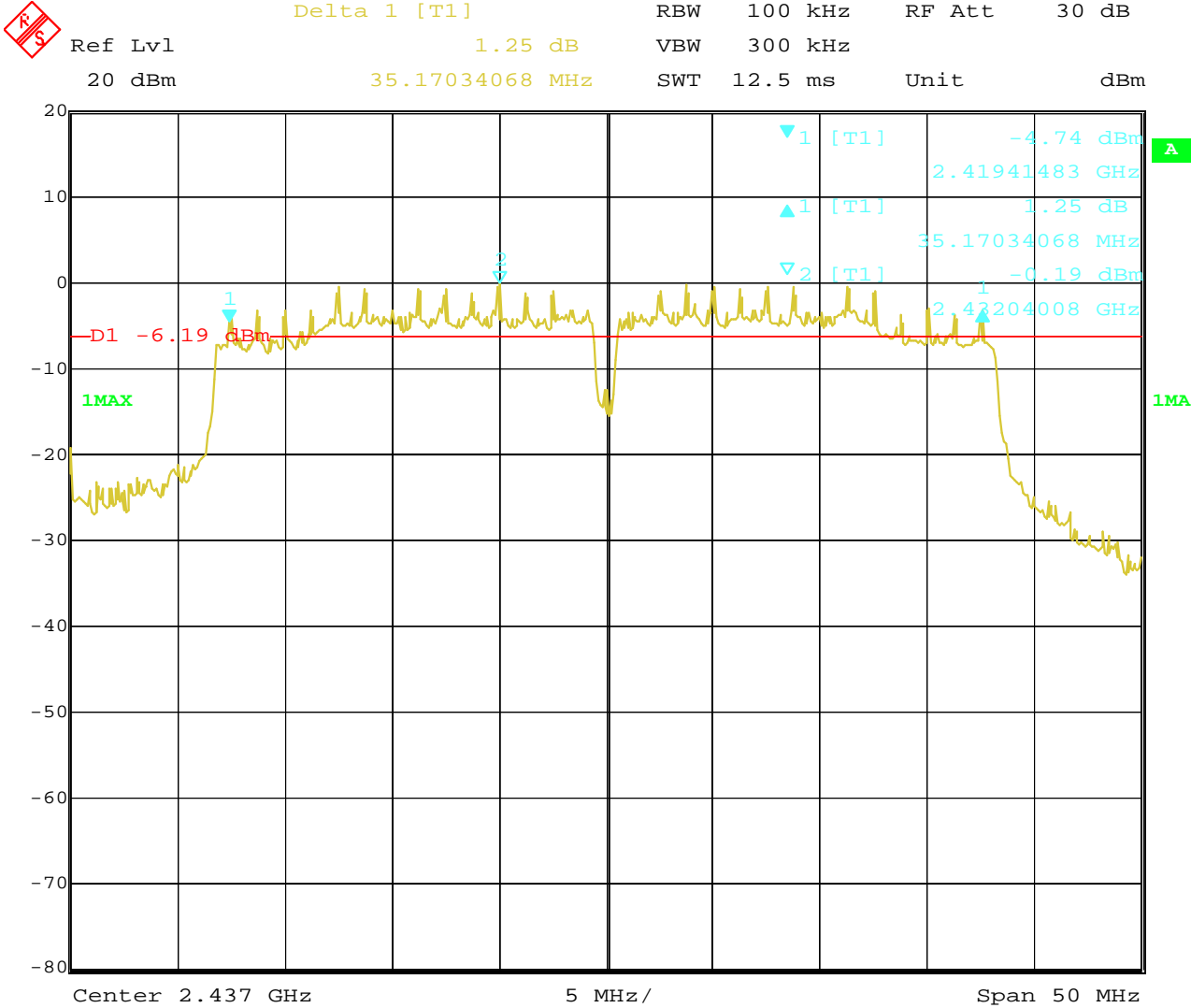


Date: 10.DEC.2020 18:25:49

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2. 802.11n at HT40 of CH06



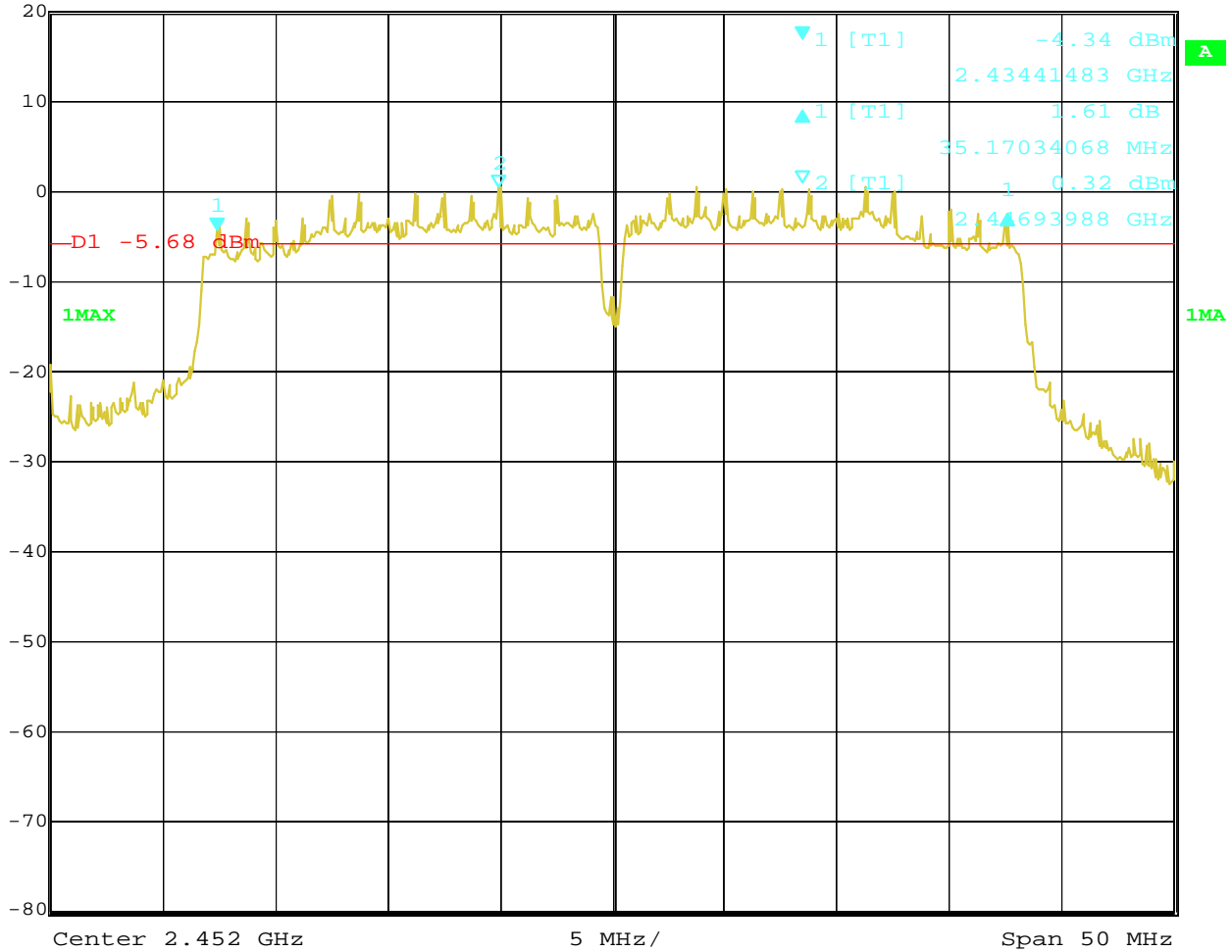
Date: 10.DEC.2020 18:27:00

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3. 802.11n at HT40 of CH09

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	1.61 dB	VBW	300 kHz	
	20 dBm	35.17034068 MHz	SWT	12.5 ms	Unit dBm



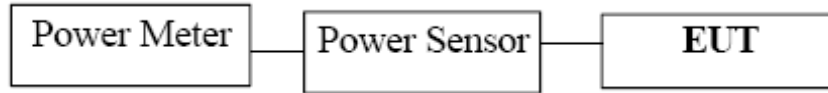
Date: 10.DEC.2020 18:28:20

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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		Commercial Kiosk Tablet		Model		NEB215		
Mode		802.11b		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Ant 0 Power		Ant 1 Power		Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
1	2412	19.18	82.79	19.02	79.80	22.11	30	Pass
6	2437	18.86	76.91	18.59	72.28	21.74	30	Pass
11	2462	19.53	89.74	19.24	83.95	22.40	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		Commercial Kiosk Tablet		Model		NEB215		
Mode		802.11g		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Ant 0 Power		Ant 1 Power		Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
1	2412	21.36	136.77	21.17	130.92	24.28	30	Pass
6	2437	21.61	144.88	21.45	139.64	24.54	30	Pass
11	2462	22.38	172.98	22.20	165.96	25.30	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	Commercial Kiosk Tablet		Model		NEB215			
Mode	802.11n (HT20)		Test Voltage		120V~			
Temperature	24 deg. C,		Humidity		56% RH			
Channel	Frequency (MHz)	Ant 0 Power		Ant 1 Power		Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
1	2412	21.15	130.32	20.94	124.17	24.06	30	Pass
6	2437	21.17	130.92	20.98	125.31	24.09	30	Pass
11	2462	22.20	165.96	22.03	159.59	25.13	30	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

EUT	Commercial Kiosk Tablet		Model		NEB215			
Mode	802.11n (HT40)		Test Voltage		120V~			
Temperature	24 deg. C,		Humidity		56% RH			
Channel	Frequency (MHz)	Ant 0 Power		Ant 1 Power		Total Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
3	2422	21.50	141.25	21.33	135.83	24.43	30	Pass
6	2437	21.47	140.28	21.26	133.66	24.38	30	Pass
9	2452	21.91	155.24	21.75	149.62	24.84	30	Pass

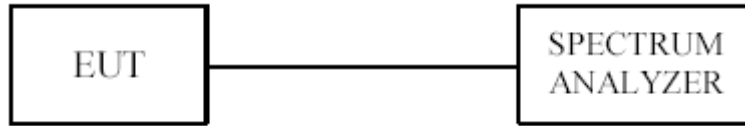
- Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT40 for CH03, CH06 and CH09  
 2. The result basic equation calculation as follow:  
 Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

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## 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		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11b 11Mbps		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Ant 0 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-5.28	3.01	-2.27	8	Pass	
6	2437	-5.05	3.01	-2.04	8	Pass	
11	2462	-5.32	3.01	-2.31	8	Pass	

- Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor  
 2. Factor=10log2=3.01  
 3. Ant 0 and Ant 1 were tested and Ant 0 was the worst case

EUT		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11b 1Mbps		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Ant 0 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-4.81	3.01	-1.80	8	Pass	
6	2437	-5.06	3.01	-2.05	8	Pass	
11	2462	-4.24	3.01	-1.23	8	Pass	

- Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor  
 2. Factor=10log2=3.01  
 3. Ant 0 and Ant 1 were tested and Ant 0 was the worst case

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EUT		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11g 6Mbps		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Ant 0 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-6.71	3.01	-3.70	8	Pass	
6	2437	-6.20	3.01	-3.19	8	Pass	
11	2462	-5.01	3.01	-2.00	8	Pass	

- Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor  
 2. Factor=10log2=3.01  
 3. Ant 0 and Ant 1 were tested and Ant 0 was the worst case

EUT		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11n HT20 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Ant 0 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
1	2412	-6.83	3.01	-3.82	8	Pass	
6	2437	-6.68	3.01	-3.67	8	Pass	
11	2462	-6.79	3.01	-3.78	8	Pass	

- Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor  
 2. Factor=10log2=3.01  
 3. Ant 0 and Ant 1 were tested and Ant 0 was the worst case

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EUT		Commercial Kiosk Tablet		Model		NEB215	
Mode		802.11n HT40 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Ant 0 Power Spectral Density	Factor	Total Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail	
3	2422	-9.53	3.01	-6.52	8	Pass	
6	2437	-9.94	3.01	-6.93	8	Pass	
9	2452	-9.25	3.01	-6.24	8	Pass	

- Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor  
 2. Factor=10log2=3.01  
 3. Ant 0 and Ant 1 were tested and Ant 0 was the worst case

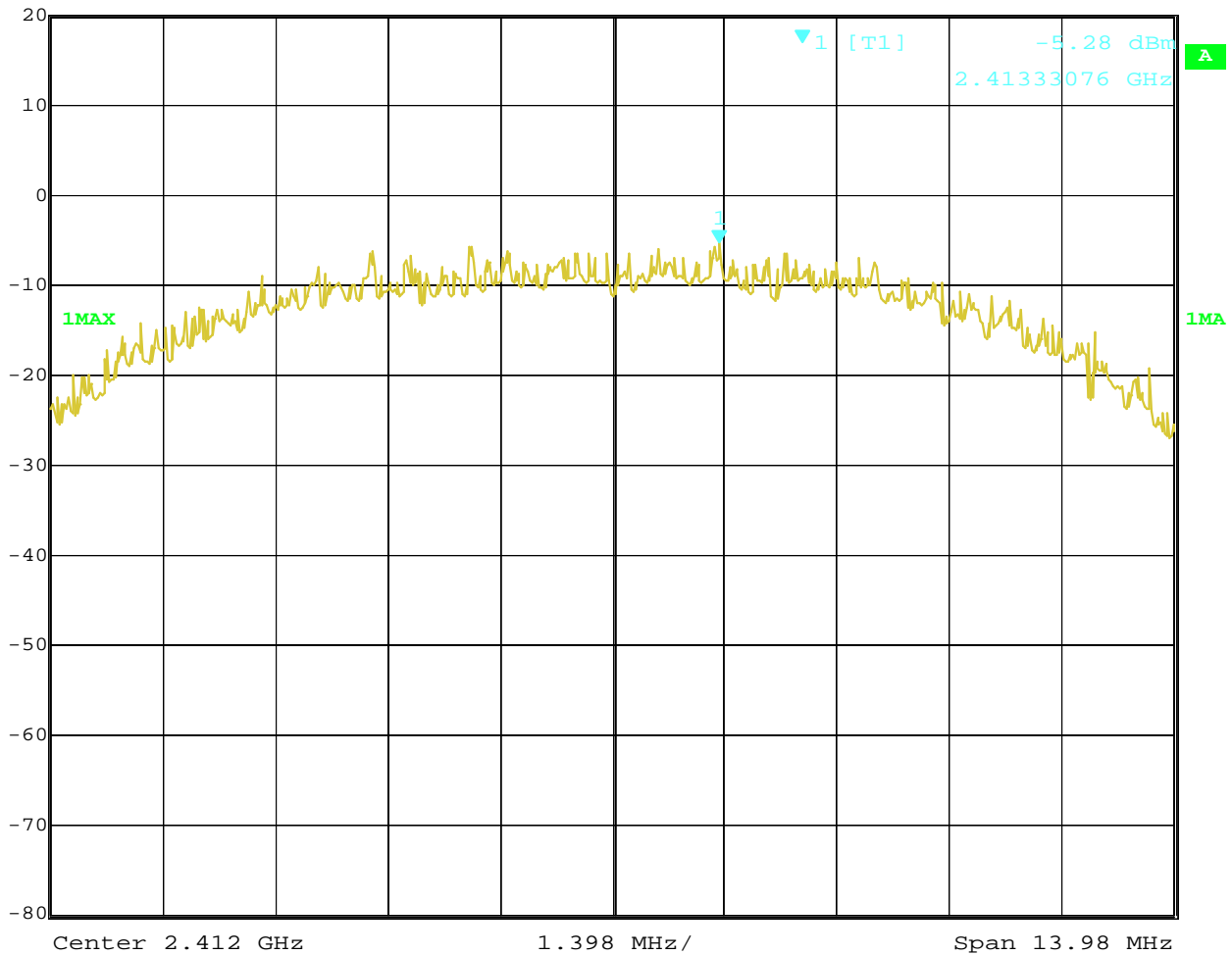
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### 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-5.28 dBm	VBW	30 kHz		
20 dBm	2.41333076 GHz	SWT	350 ms	Unit	dBm



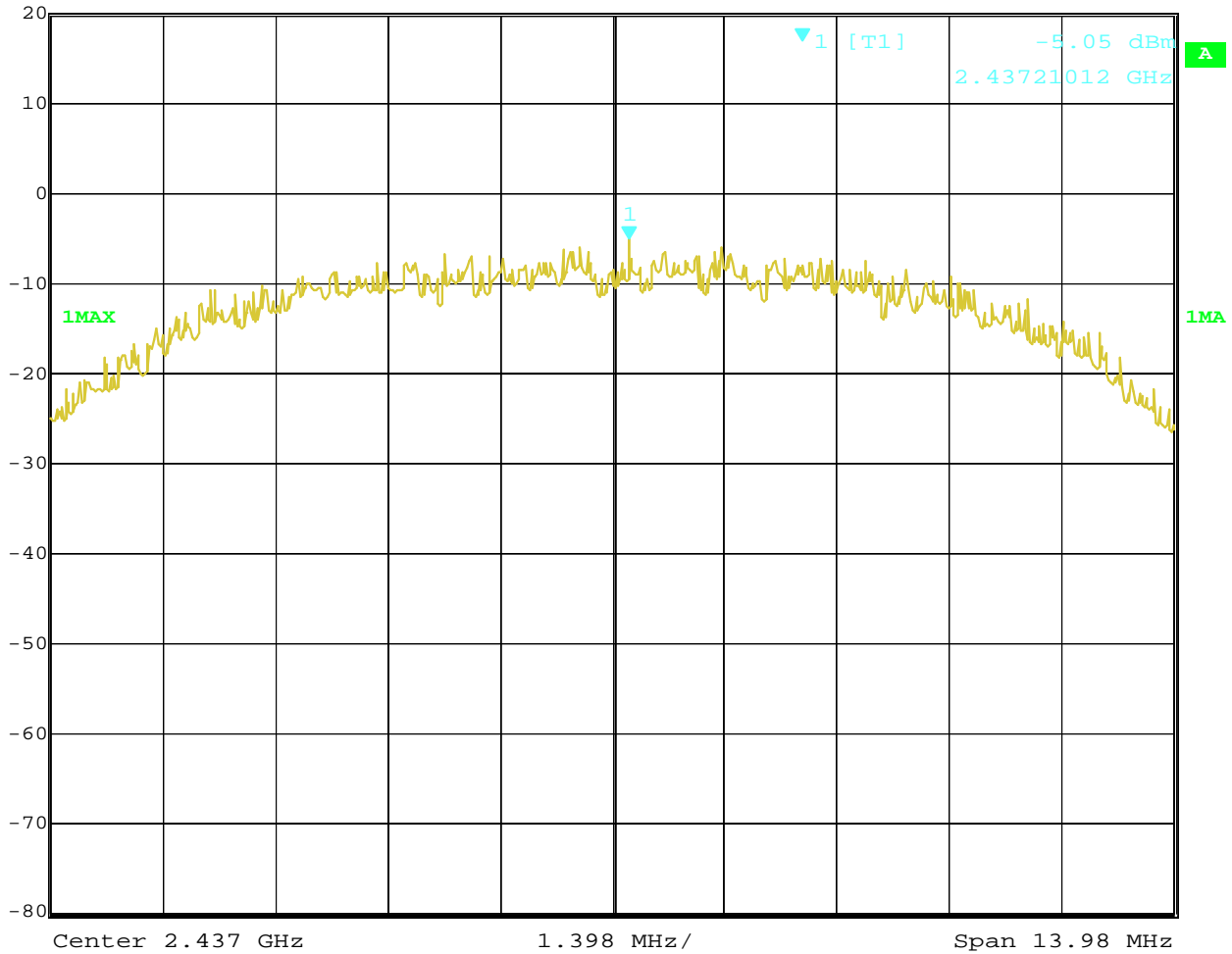
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2. 802.11b at 11Mbps at CH06

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-5.05 dBm	VBW	30 kHz	
	20 dBm	2.43721012 GHz	SWT	350 ms	Unit dBm



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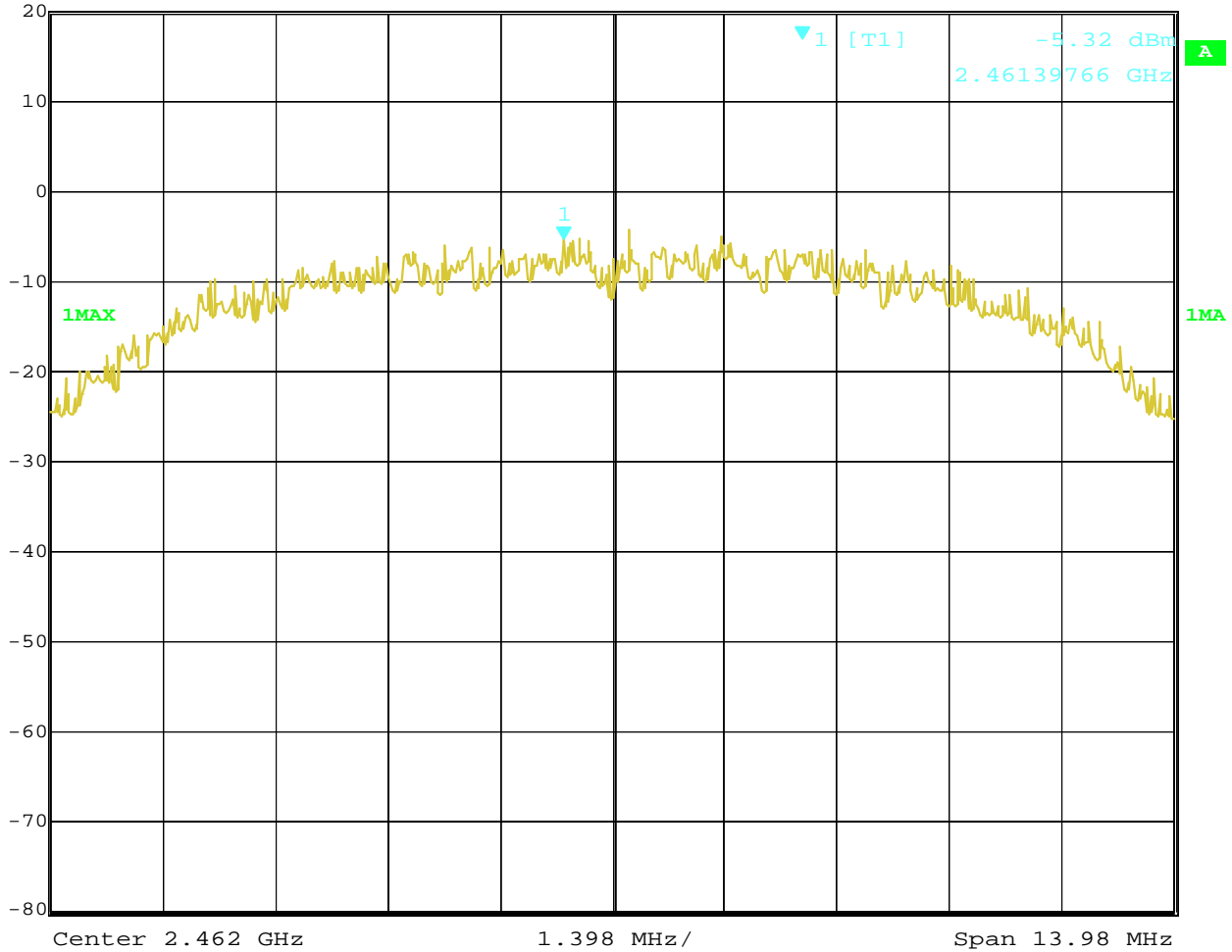
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3. 802.11b at 11Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-5.32 dBm	VBW	30 kHz	
	20 dBm	2.46139766 GHz	SWT	350 ms	Unit dBm



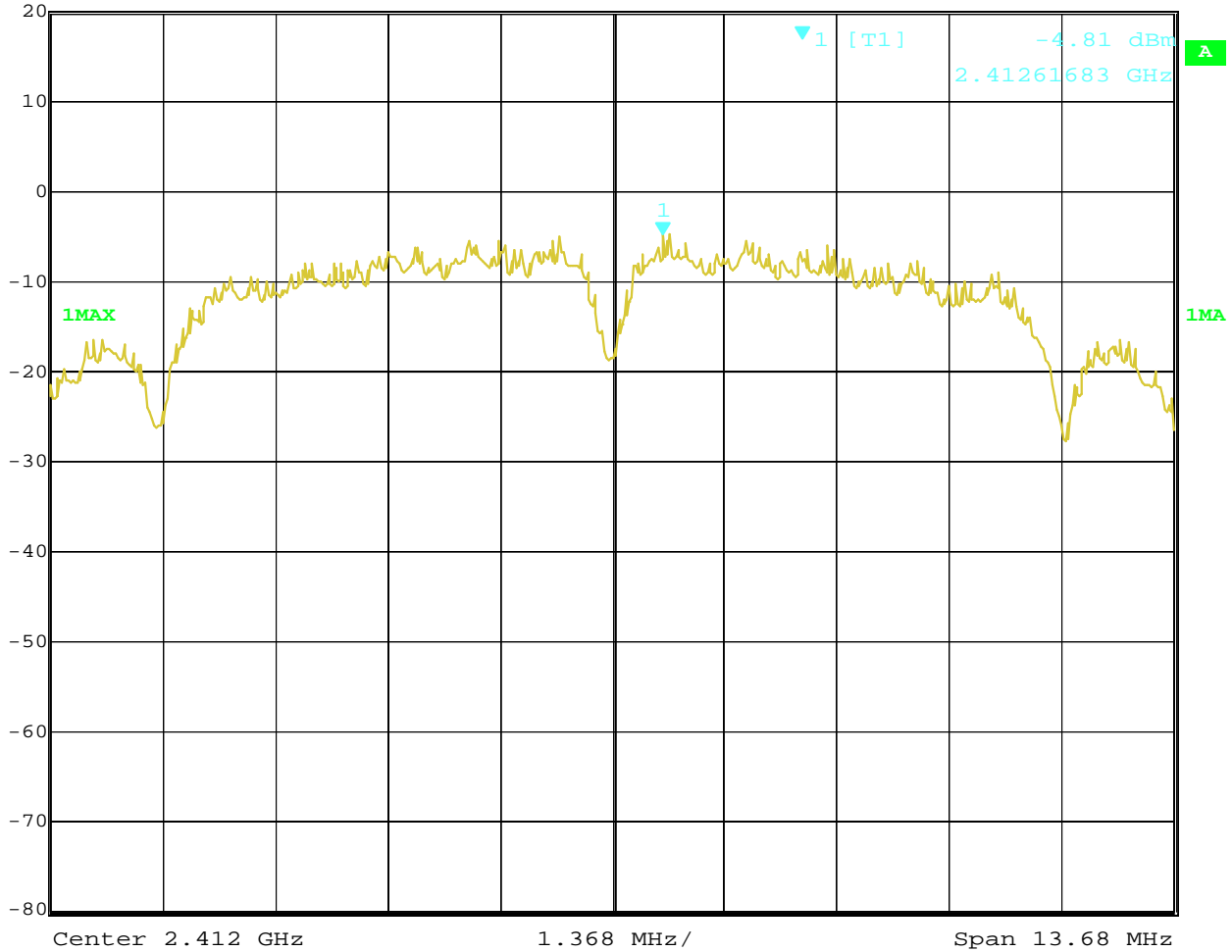
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4. 802.11b at 1Mbps of CH1

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-4.81 dBm	VBW	30 kHz	
	20 dBm	2.41261683 GHz	SWT	350 ms	Unit dBm



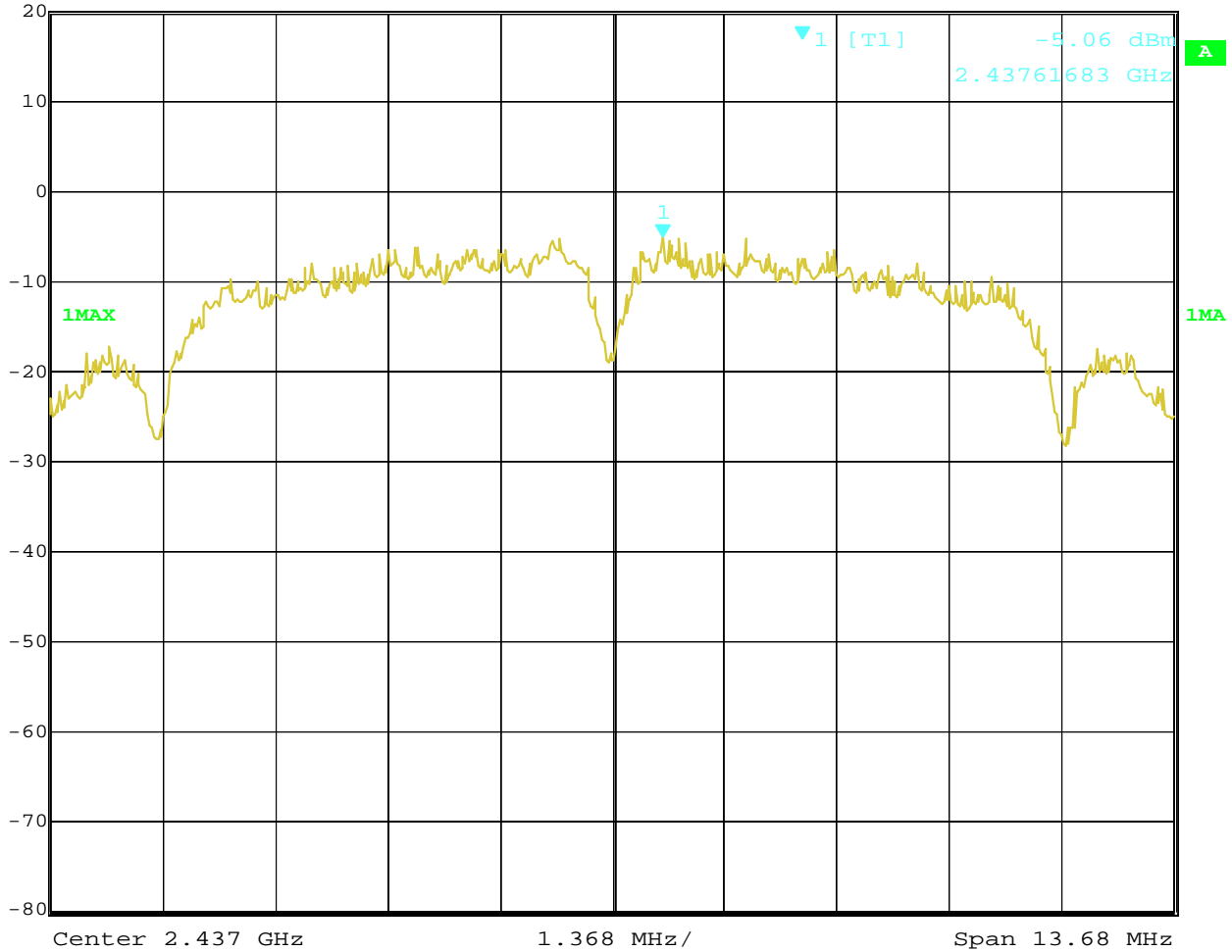
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5. 802.11b at 1Mbps of CH6

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-5.06 dBm	VBW	30 kHz	
	20 dBm	2.43761683 GHz	SWT	350 ms	Unit dBm



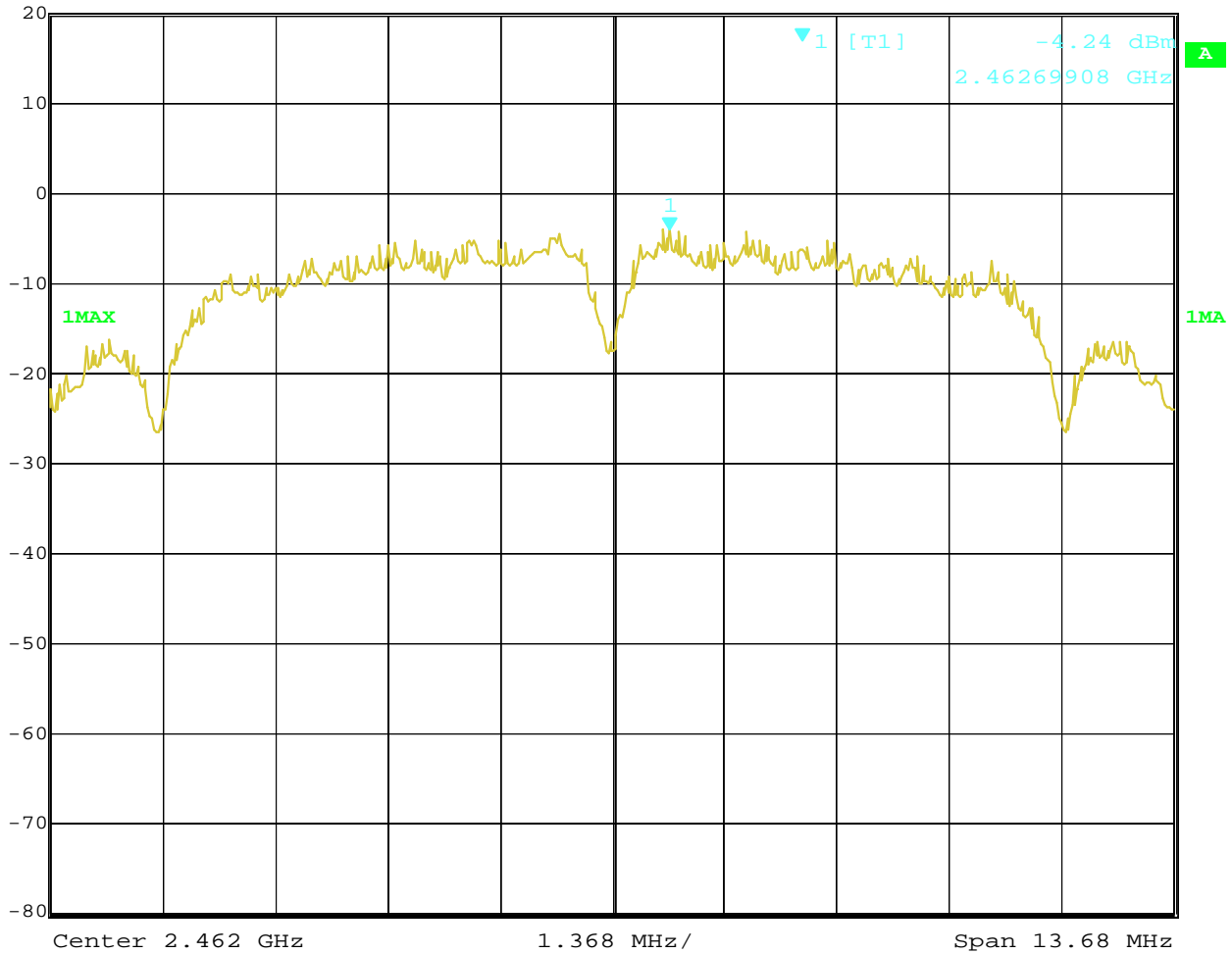
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6. 802.11b at 1Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-4.24 dBm	VBW	30 kHz	
	20 dBm	2.46269908 GHz	SWT	350 ms	Unit dBm



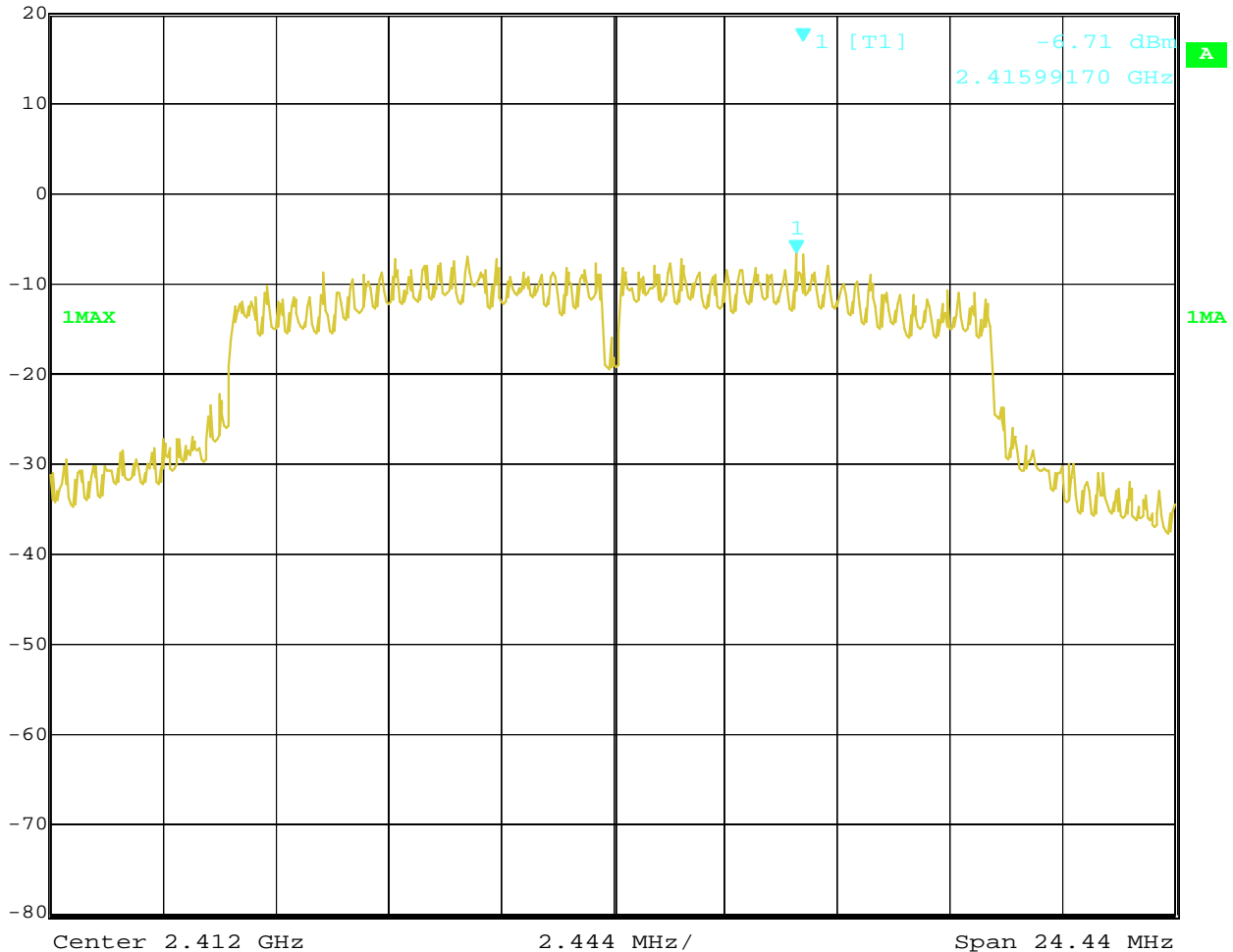
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7. 802.11g at 6Mbps of CH1

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.71 dBm	VBW	30 kHz	
	20 dBm	2.41599170 GHz	SWT	620 ms	Unit dBm



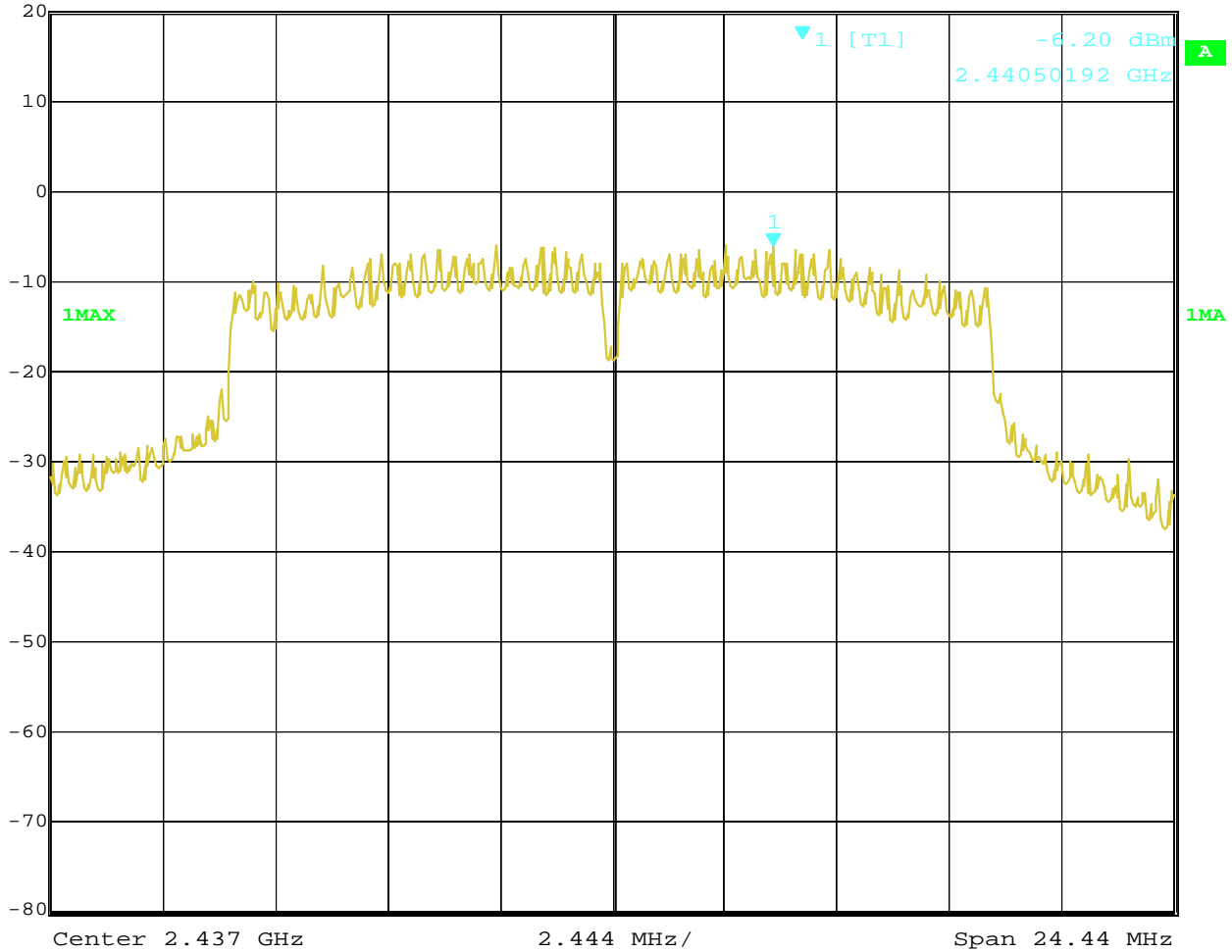
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8. 802.11g at 6Mbps of CH6

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.20 dBm	VBW	30 kHz	
	20 dBm	2.44050192 GHz	SWT	620 ms	Unit dBm



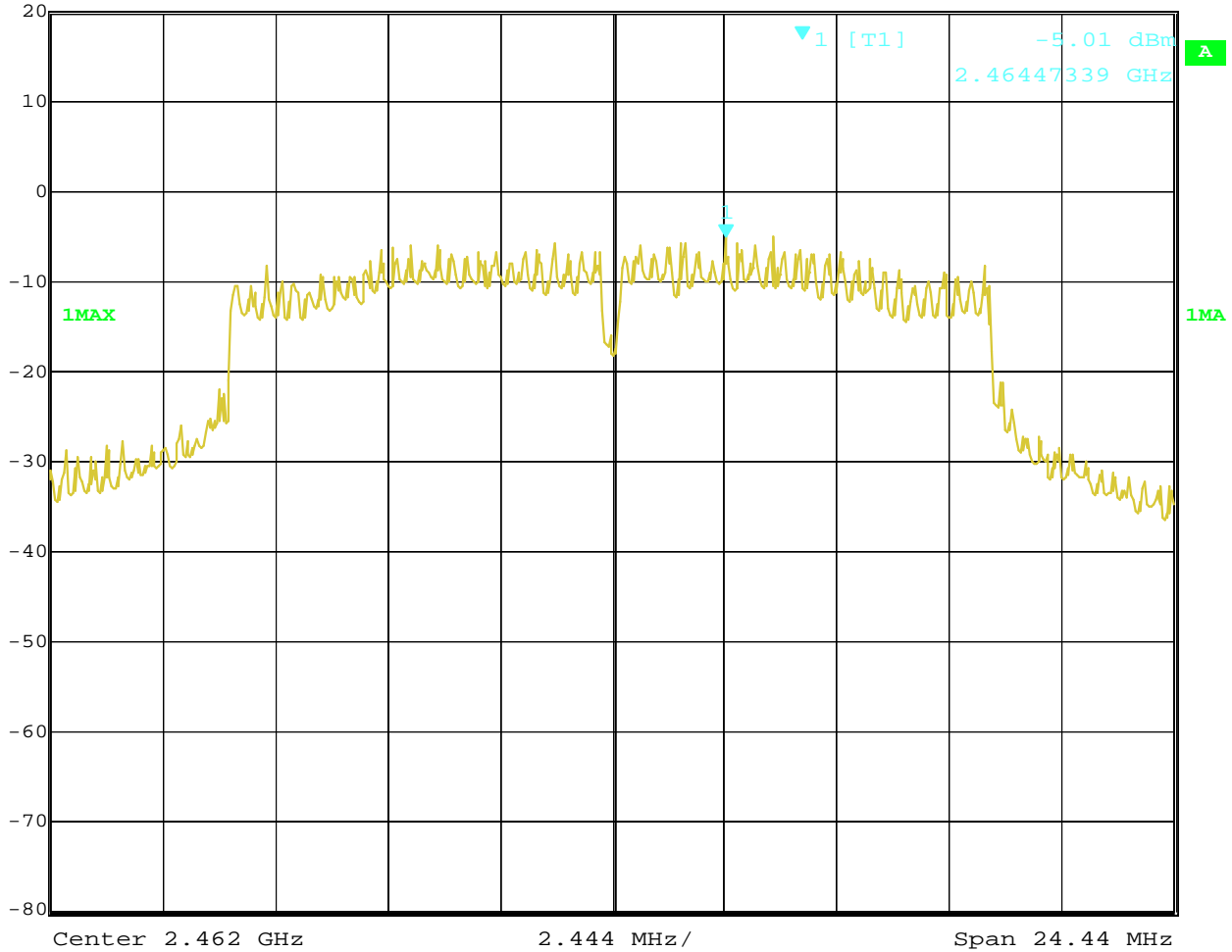
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9. 802.11g at 6Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-5.01 dBm	VBW	30 kHz	
	20 dBm	2.46447339 GHz	SWT	620 ms	Unit dBm



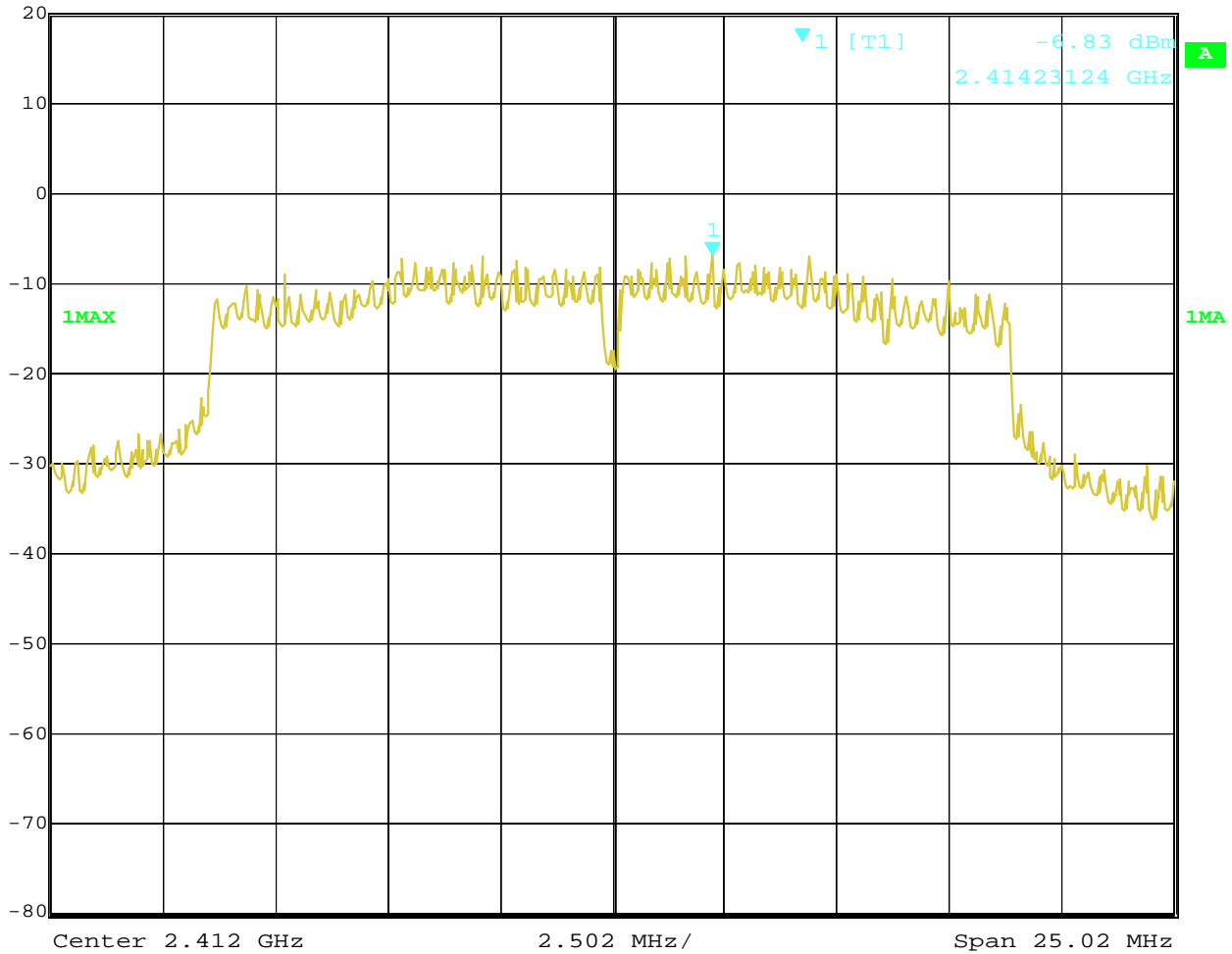
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10. 802.11n at HT20 of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.83 dBm	VBW	30 kHz	
	20 dBm	2.41423124 GHz	SWT	640 ms	Unit dBm



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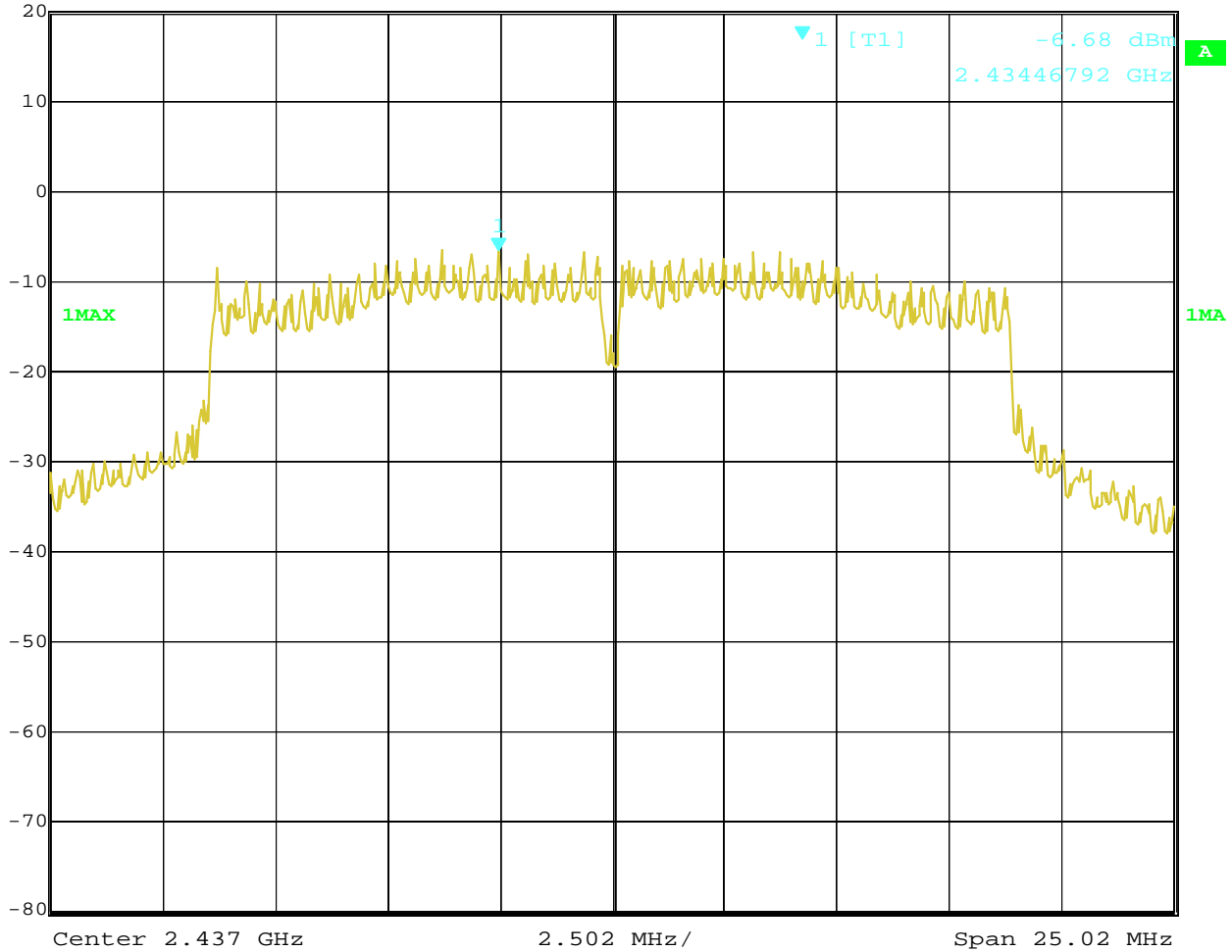
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11. 802.11n at HT20 of CH06

	Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	20 dBm	-6.68 dBm	VBW	30 kHz		
		2.43446792 GHz	SWT	640 ms	Unit	dBm



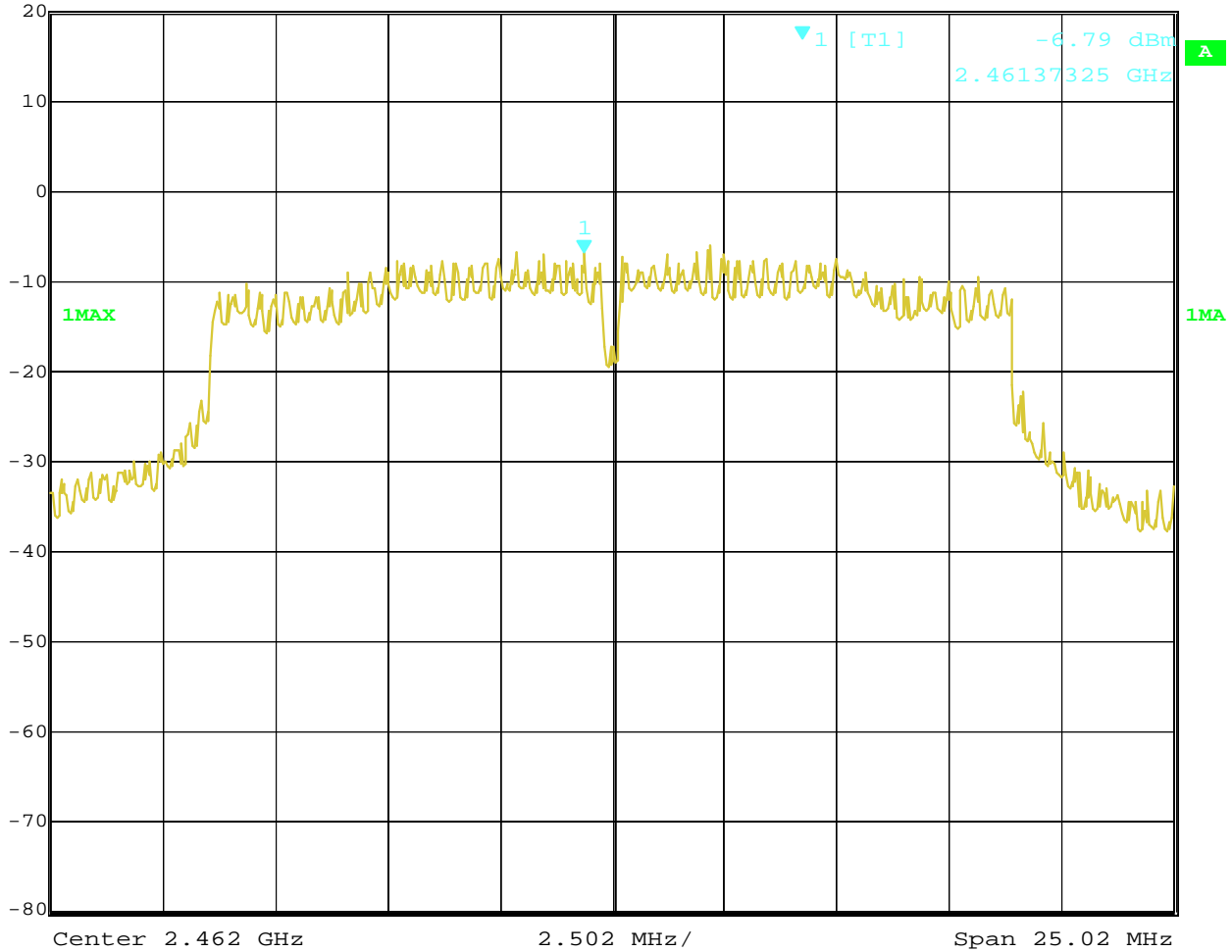
Date: 10.DEC.2020 18:23:28

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12. 802.11n at HT20 of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-6.79 dBm	VBW	30 kHz	
	20 dBm	2.46137325 GHz	SWT	640 ms	Unit dBm



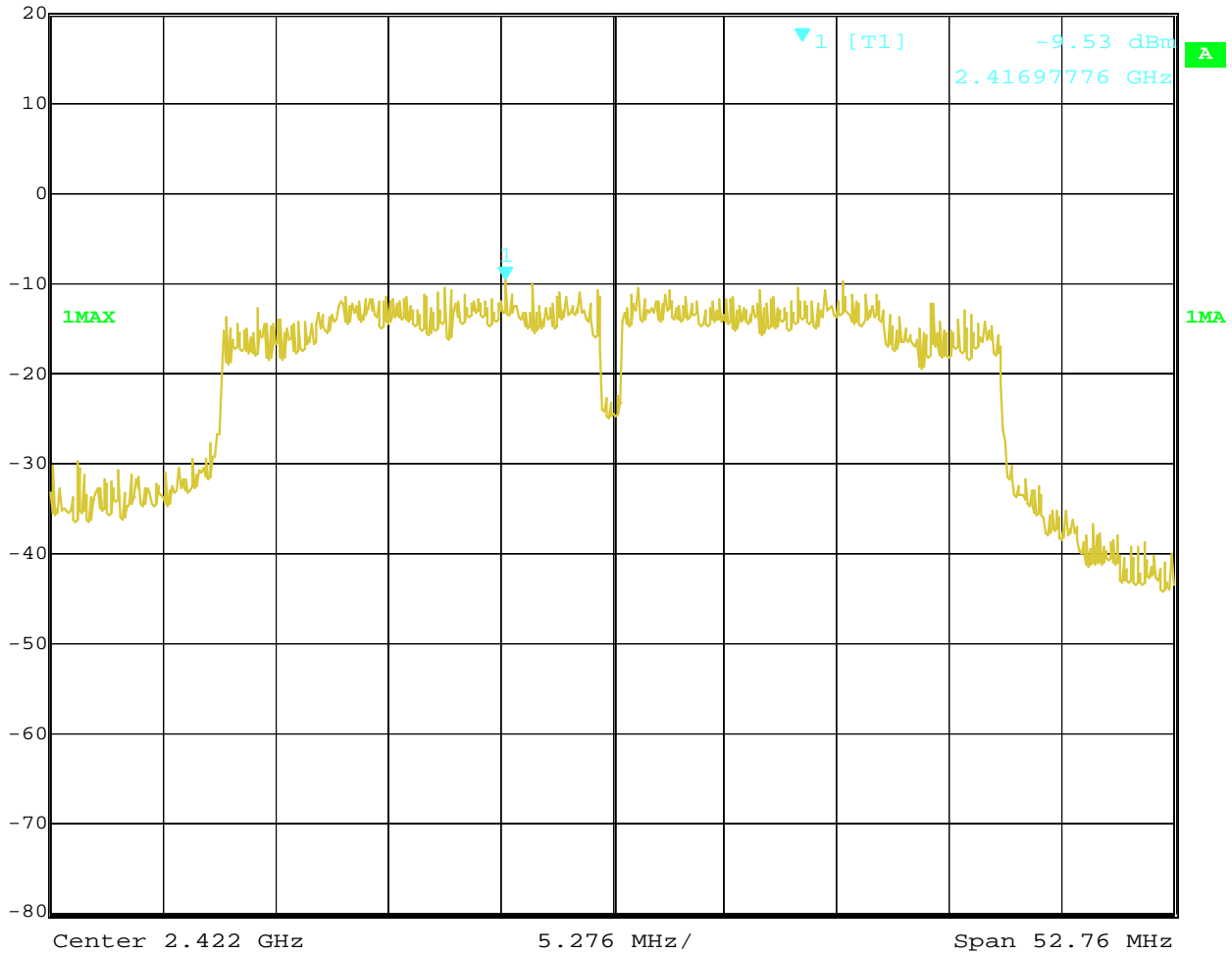
Date: 10.DEC.2020 18:23:56

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13. 802.11n at HT40 of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-9.53 dBm	VBW	30 kHz	
	20 dBm	2.41697776 GHz	SWT	1.35 s	Unit dBm



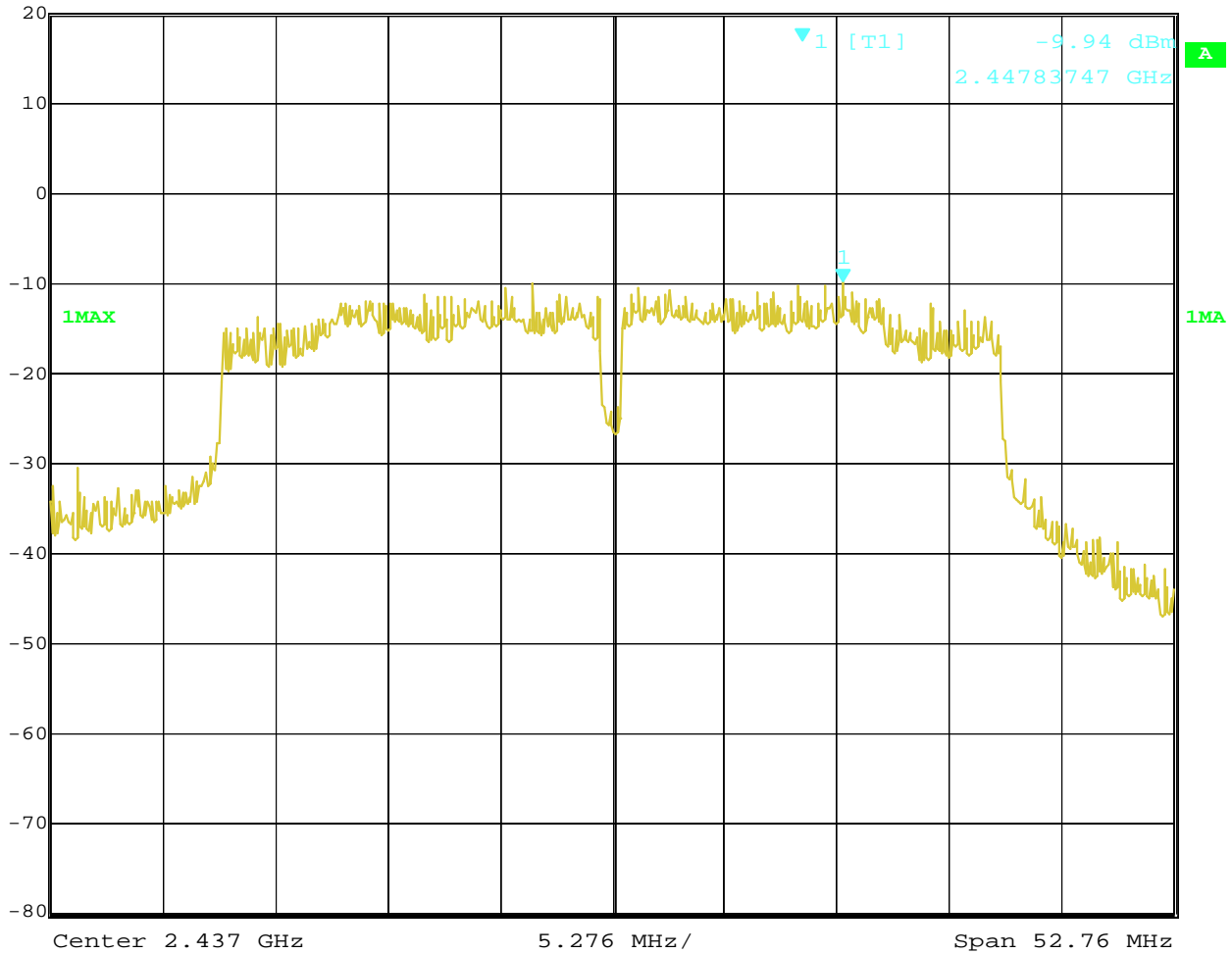
Date: 10.DEC.2020 18:31:36

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14. 802.11n at HT40 of CH04

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-9.94 dBm	VBW	30 kHz	
	20 dBm	2.44783747 GHz	SWT	1.35 s	Unit dBm



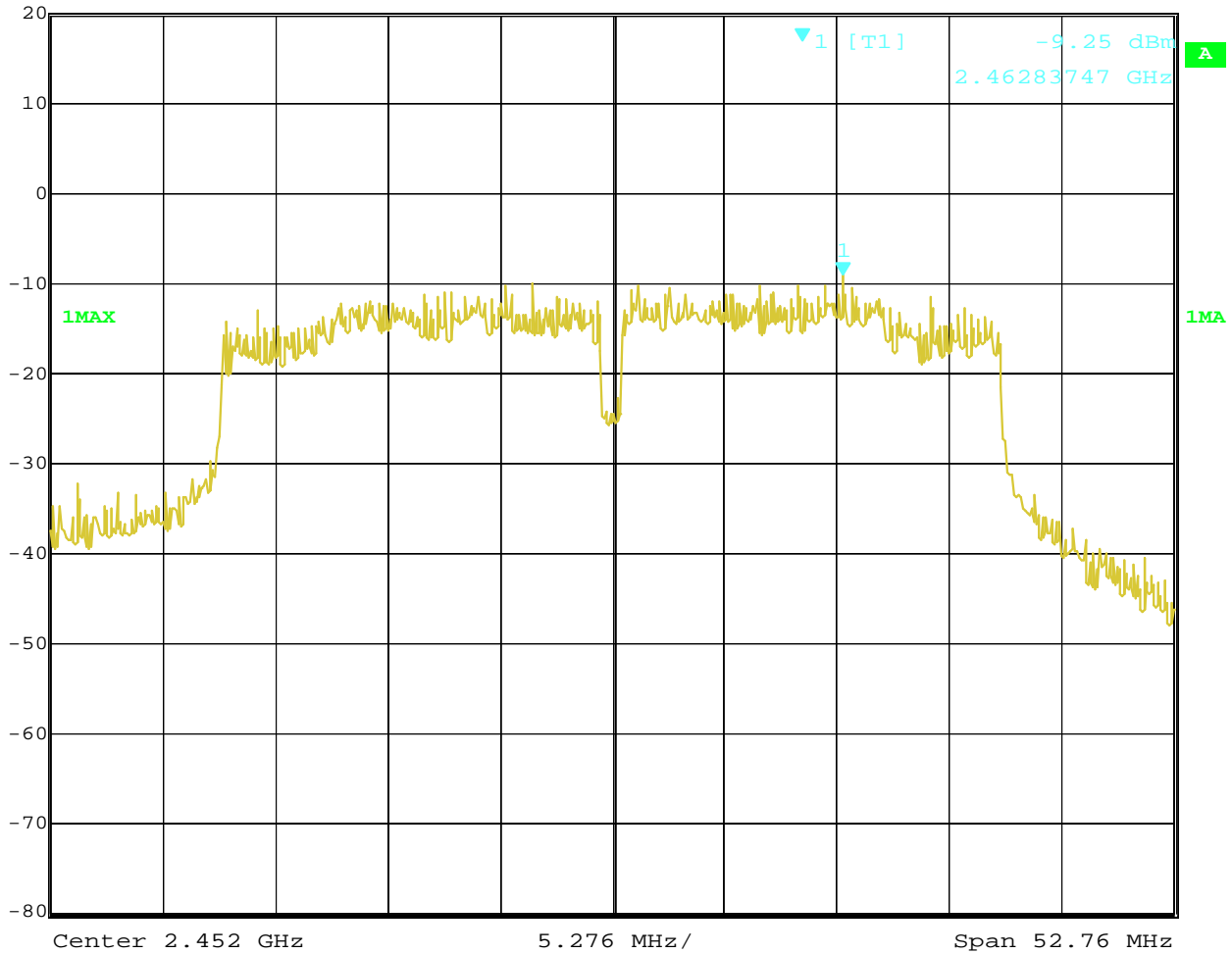
Date: 10.DEC.2020 18:32:10

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15. 802.11n at HT40 of CH07

	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
	Ref Lvl	-9.25 dBm	VBW	30 kHz	
	20 dBm	2.46283747 GHz	SWT	1.35 s	Unit dBm



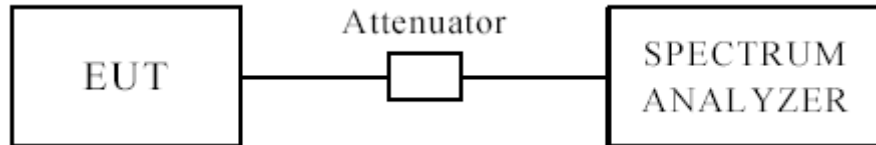
Date: 10.DEC.2020 18:32:37

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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  $-20\text{dB}$  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. Ant 0 was the worst case.

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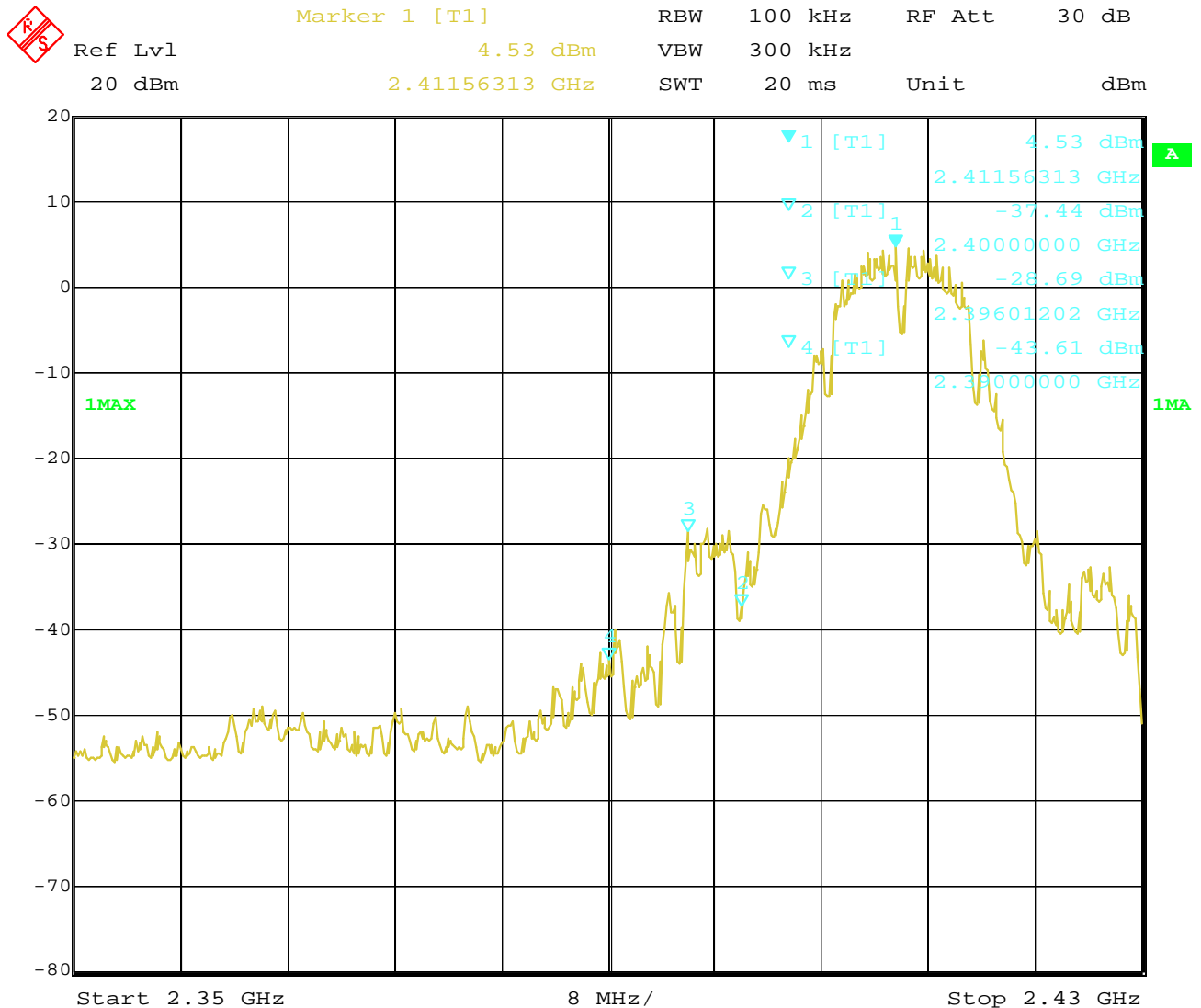
For 802.11b mode

CH01 at 1Mbps

**10.4 Band-edge Measurement**

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 10.DEC.2020 17:55:05

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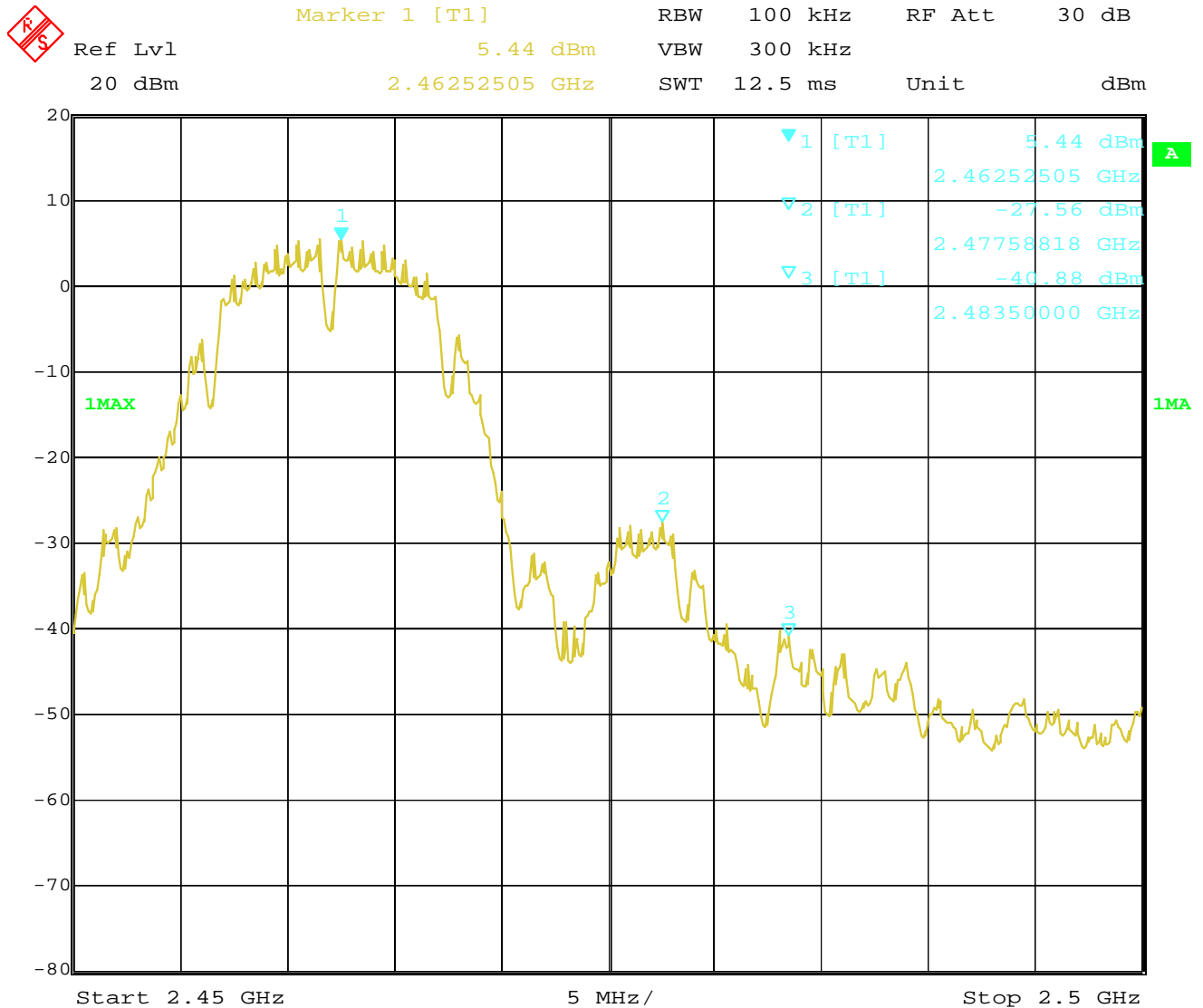


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.DEC.2020 17:54:24

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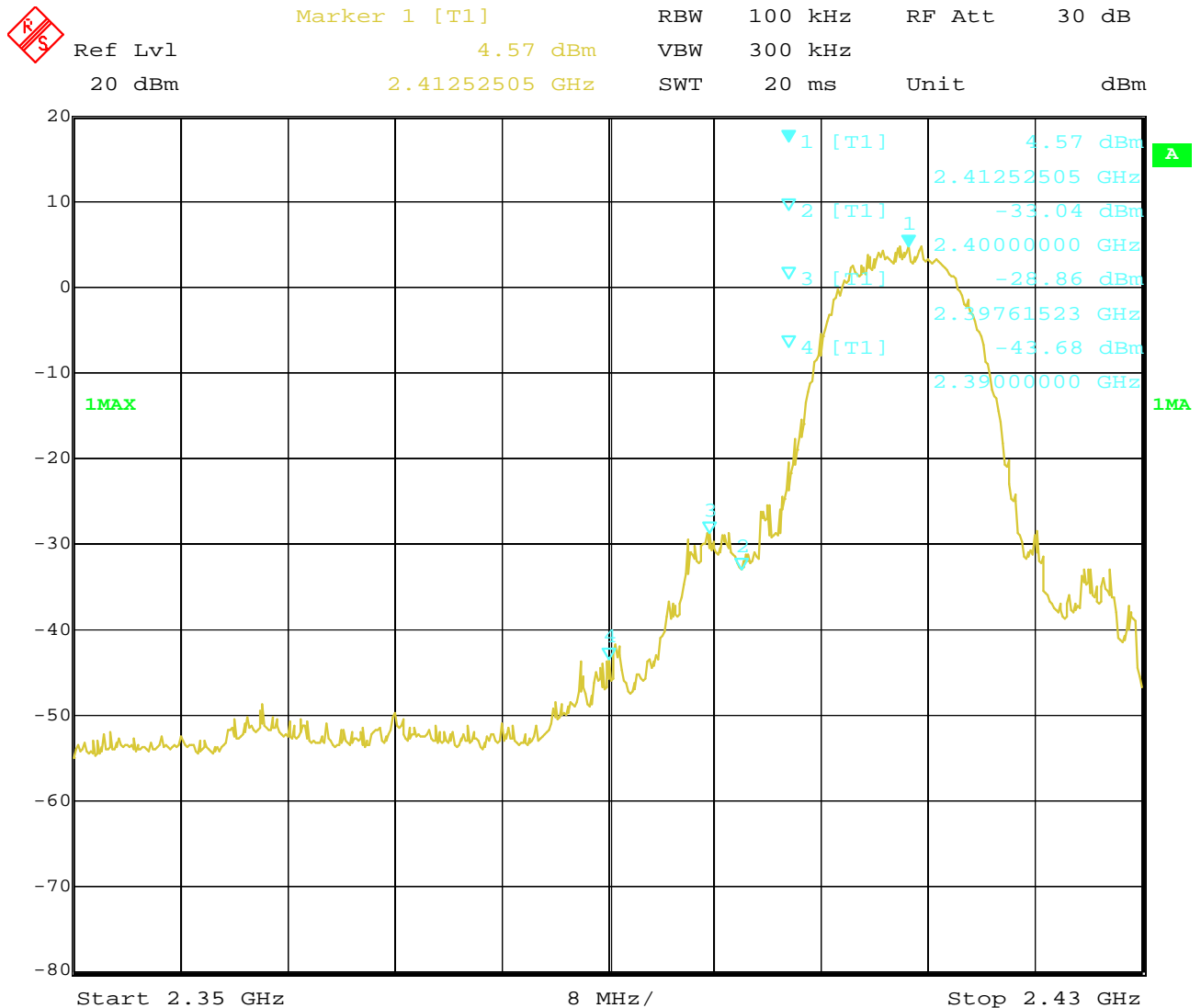
For 802.11b mode

CH01 at 11Mbps

**10.4 Band-edge Measurement**

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 10.DEC.2020 18:10:48

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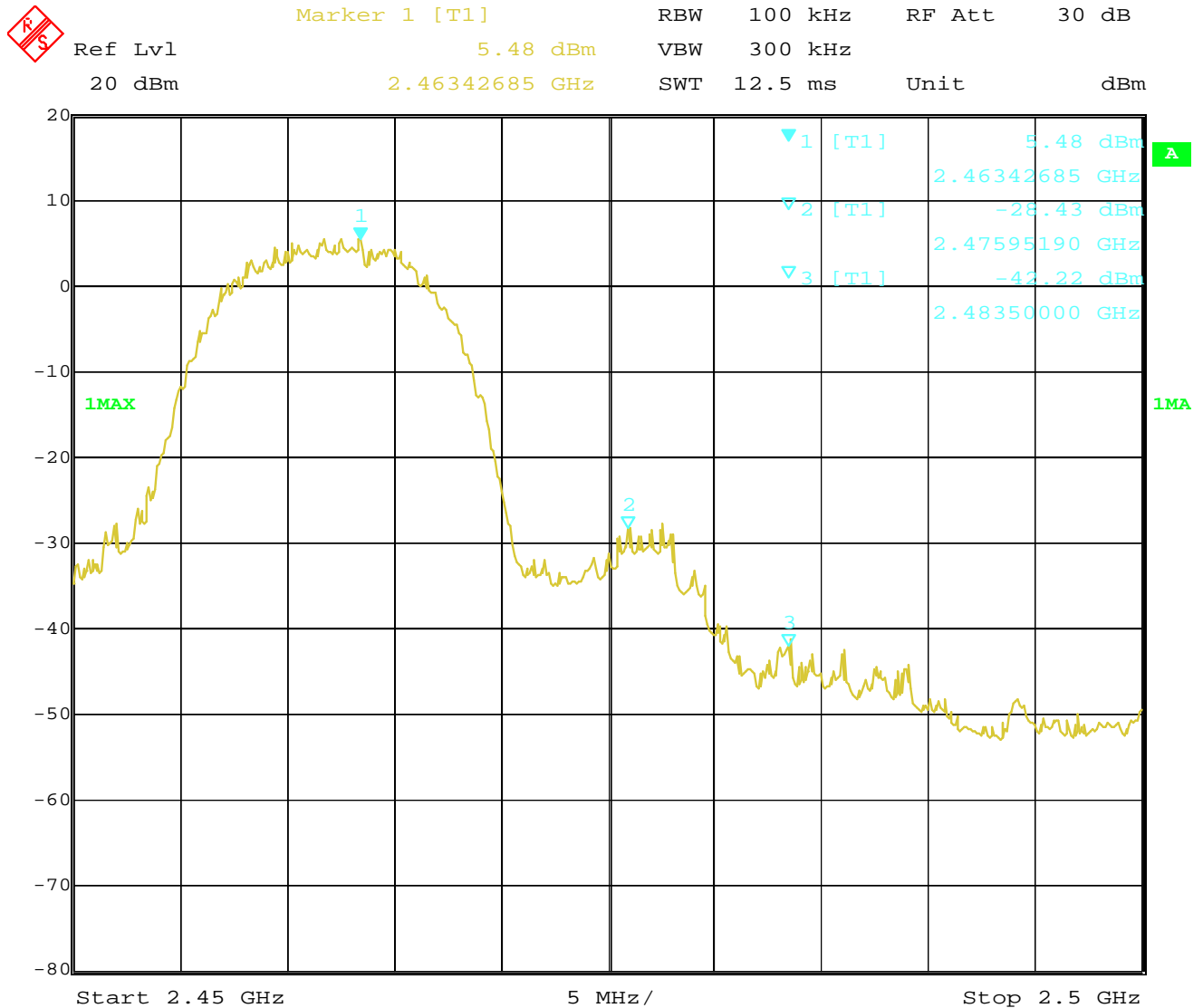


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.DEC.2020 18:11:39

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For 802.11g mode

CH01 at 6Mbps

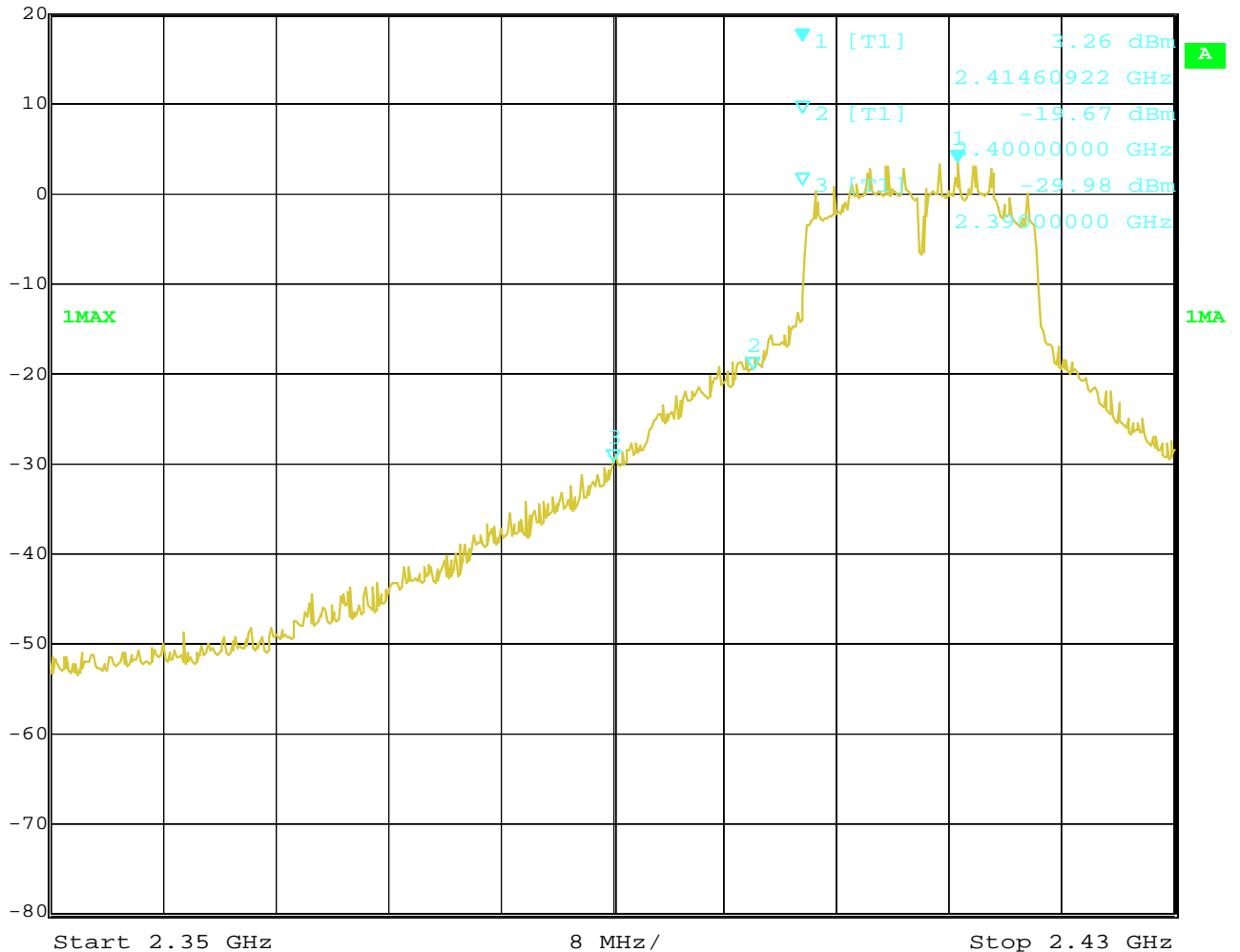
**10.4 Band-edge Measurement**

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Marker 1 [T1] RBW 100 kHz RF Att 30 dB  
 Ref Lvl 3.26 dBm VBW 300 kHz  
 20 dBm 2.41460922 GHz SWT 20 ms Unit dBm



Date: 10.DEC.2020 17:52:16

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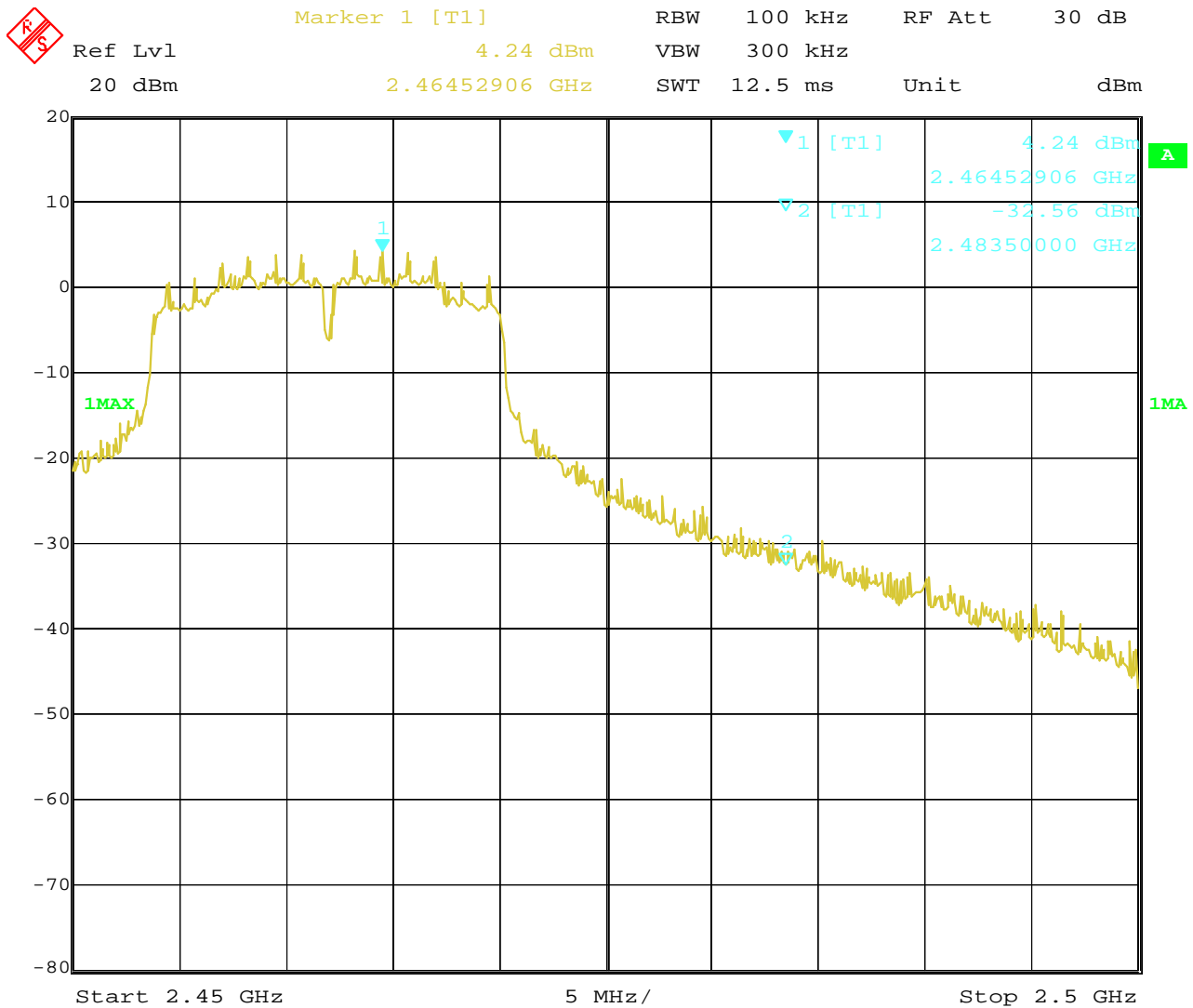


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.DEC.2020 17:53:11

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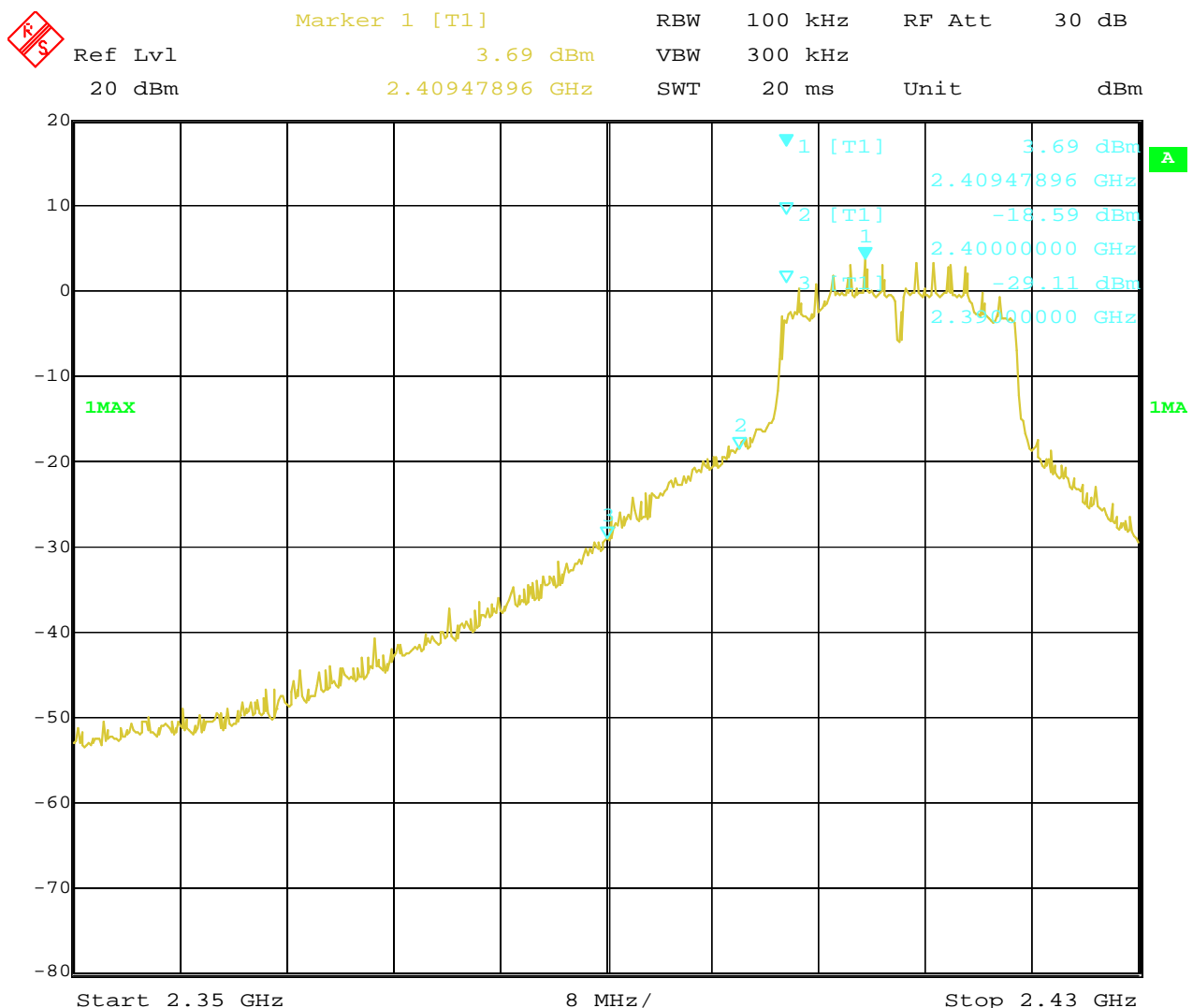
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.DEC.2020 18:13:34

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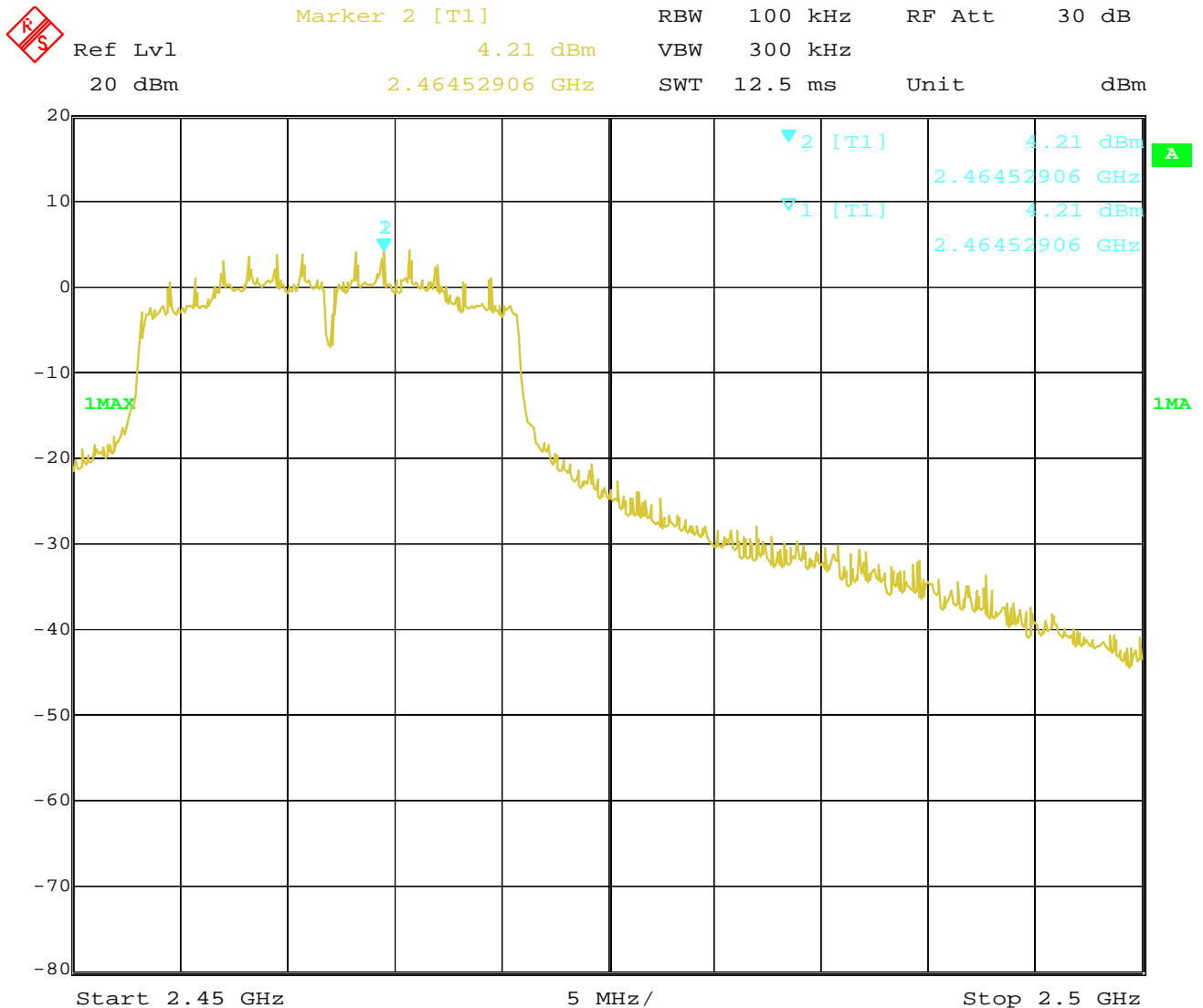


CH11 at mcs0

**10.4 Band-edge Measurement**

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 10.DEC.2020 18:12:43

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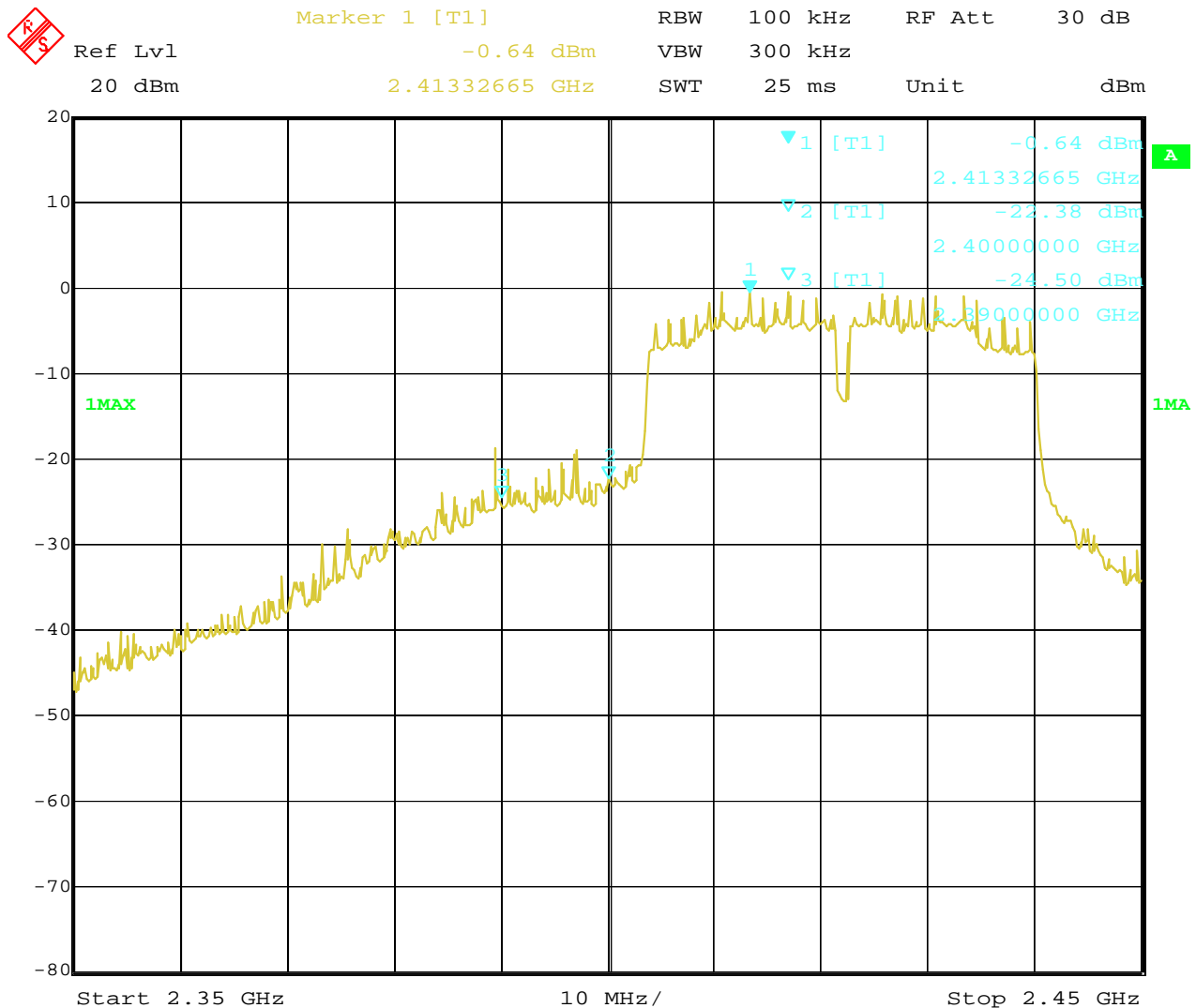
For 802.11n (HT40) mode

CH03 at mcs0

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

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 10.DEC.2020 18:33:39

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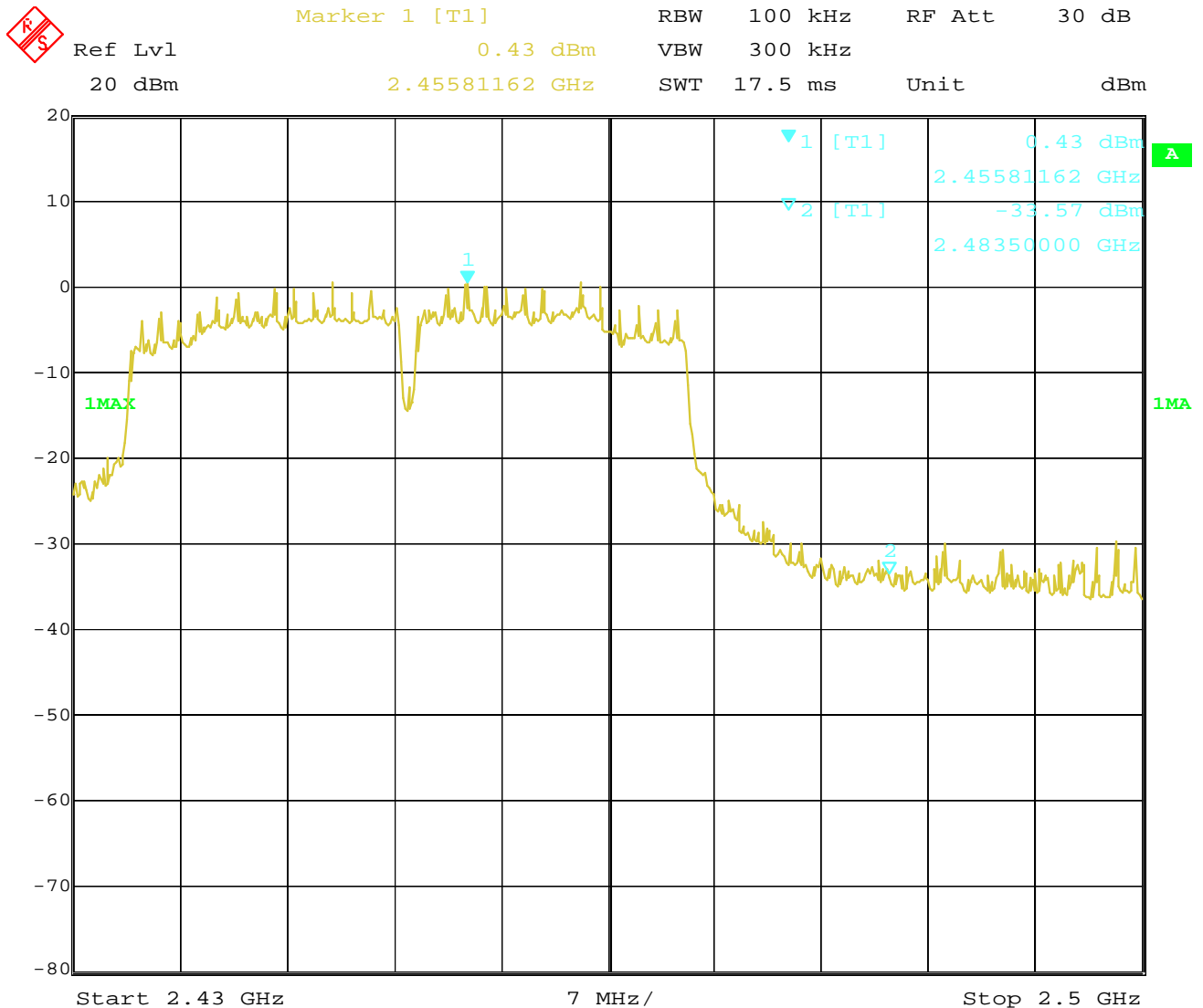


CH09 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Commercial Kiosk Tablet	Model	NEB215
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 10.DEC.2020 18:33:05

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**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
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 (dB $\mu$ V/m)	48.65	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	45.91	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
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 (dB $\mu$ V/m)	47.18	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	45.69	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
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 (dB $\mu$ V/m)	51.79	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	47.39	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
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 (dB $\mu$ V/m)	50.33	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	48.51	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
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 (dB $\mu$ V/m)	53.36	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	35.31		54(dB $\mu$ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	48.72	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	52.15	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	50.06	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	55.69	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	37.92		54(dB $\mu$ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	50.12	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Commercial Kiosk Tablet		Model	NEB215
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	53.26	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	35.03		54(dB $\mu$ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	51.59	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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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 FPC antennas used. The gain of the antennas is 2.0dBi.

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## 12.0 FCC ID Label

### FCC ID: 2AACS-NEB15-21FOR99

**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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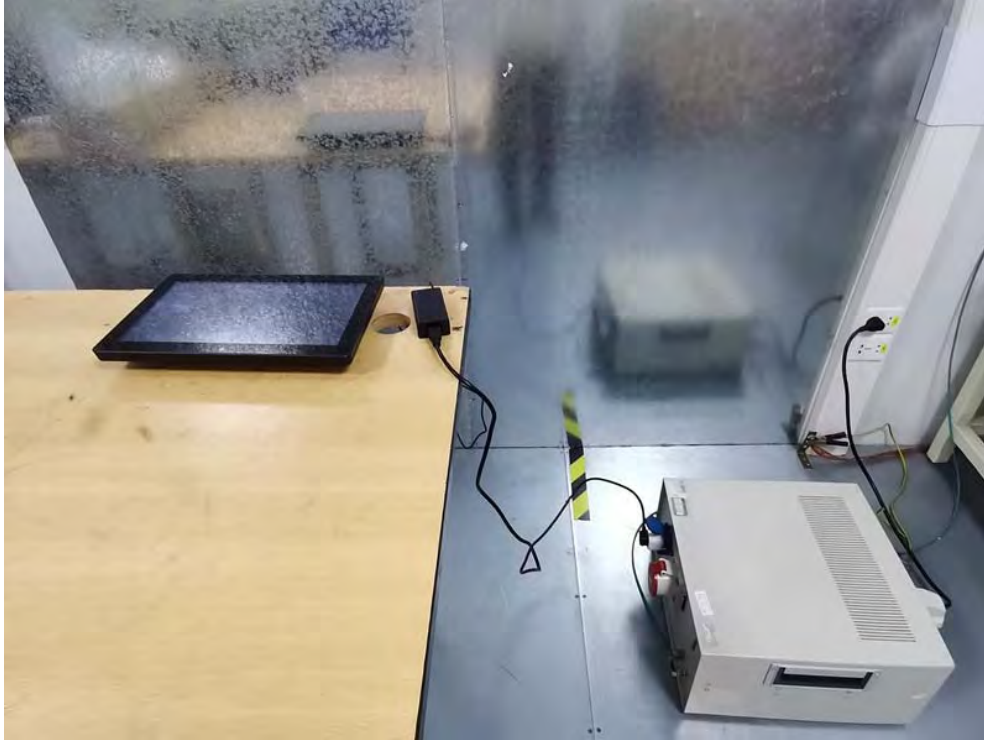
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### 13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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### Photographs – EUT

Outside View- Model : NEB215



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Outside View- Model : NEB215



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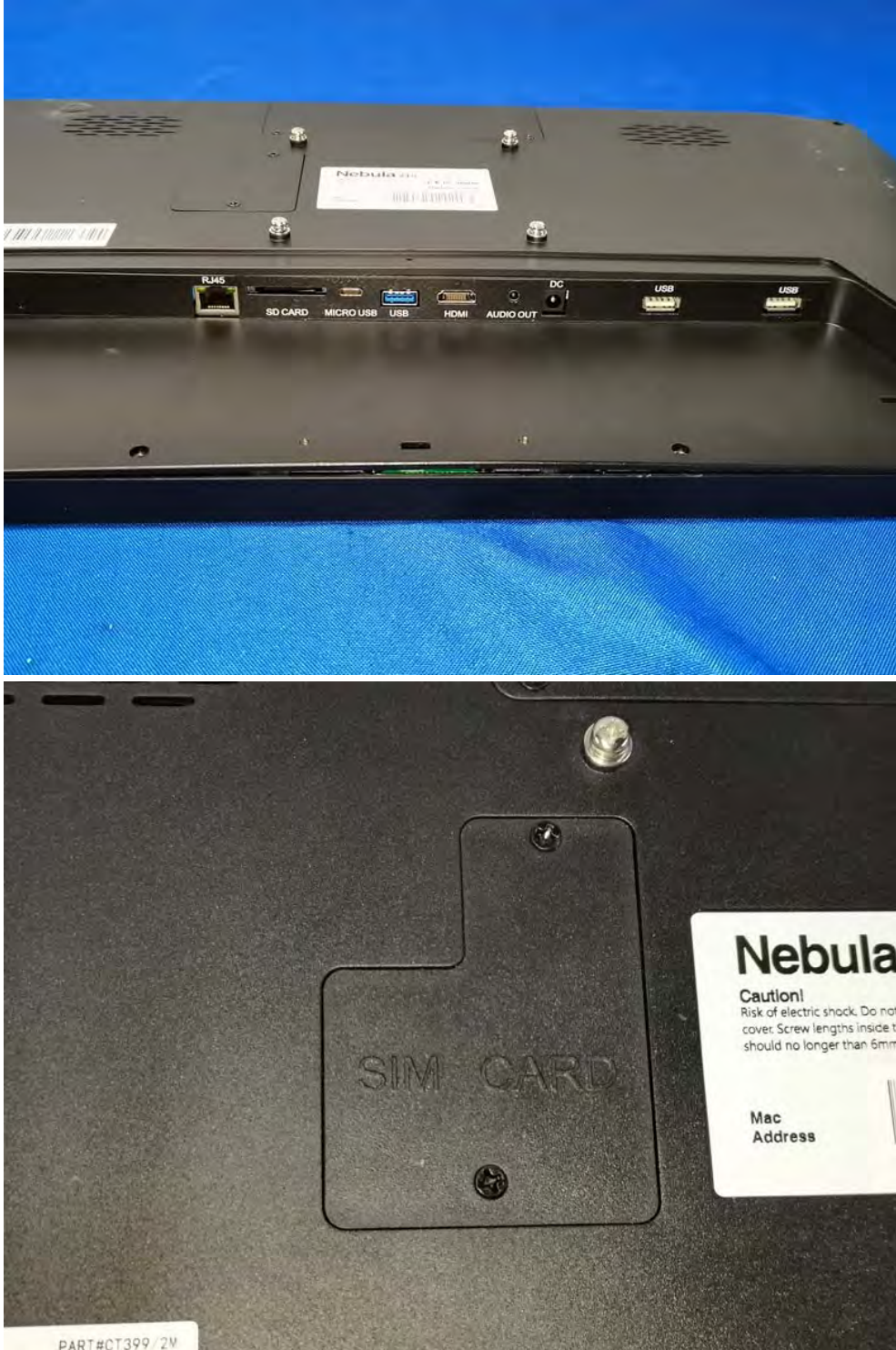
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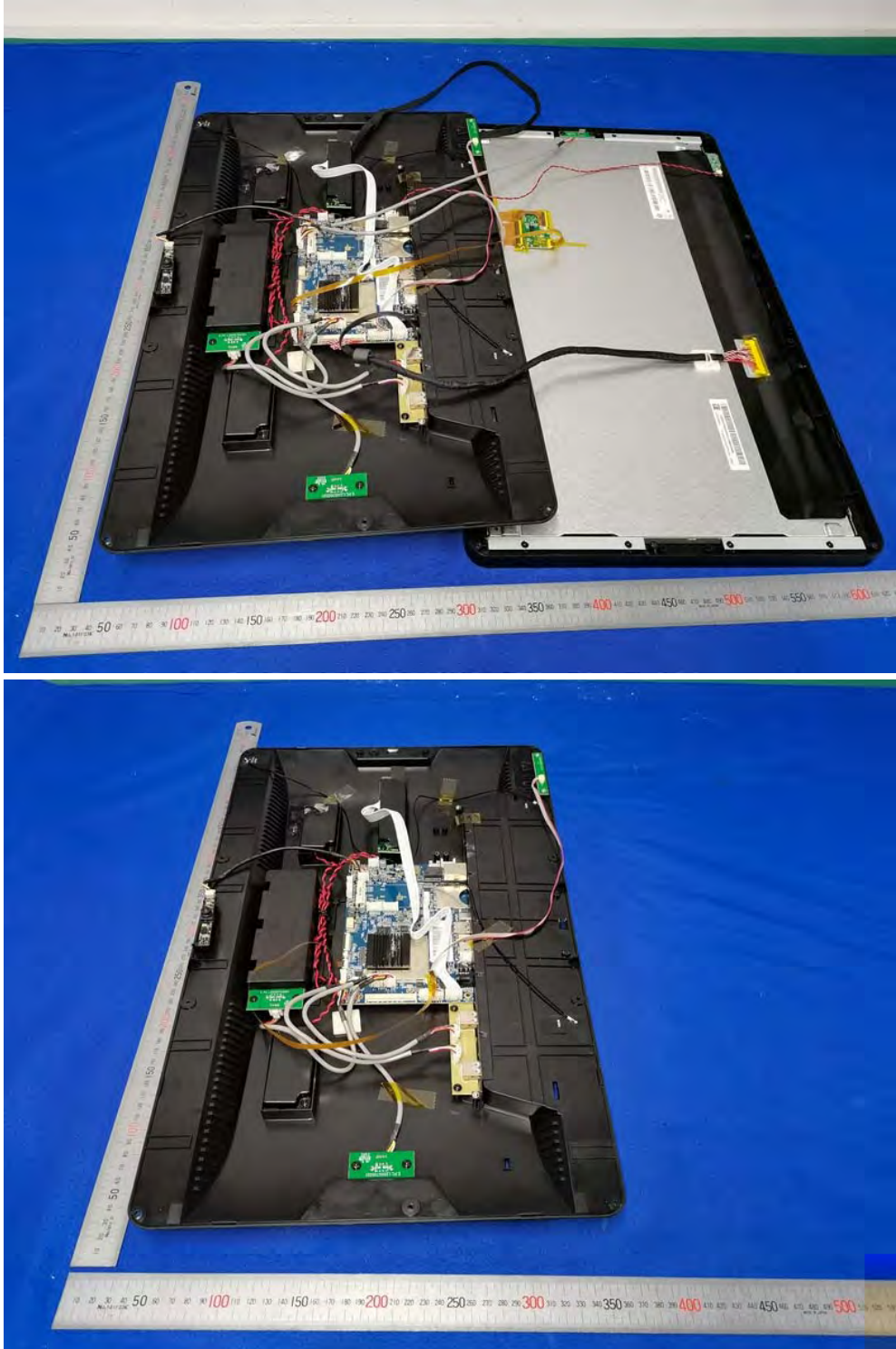
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Inside view- Model : NEB215

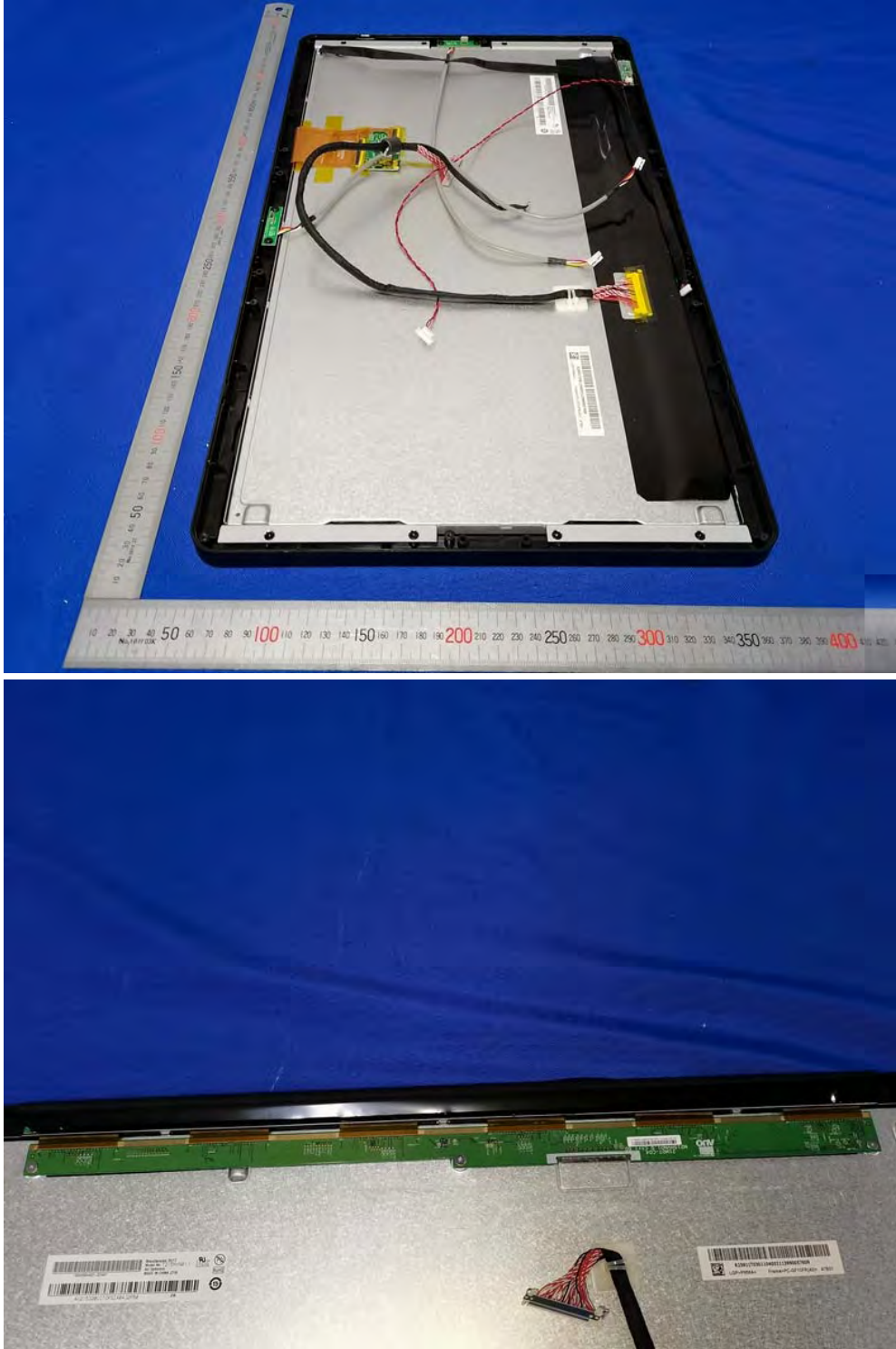


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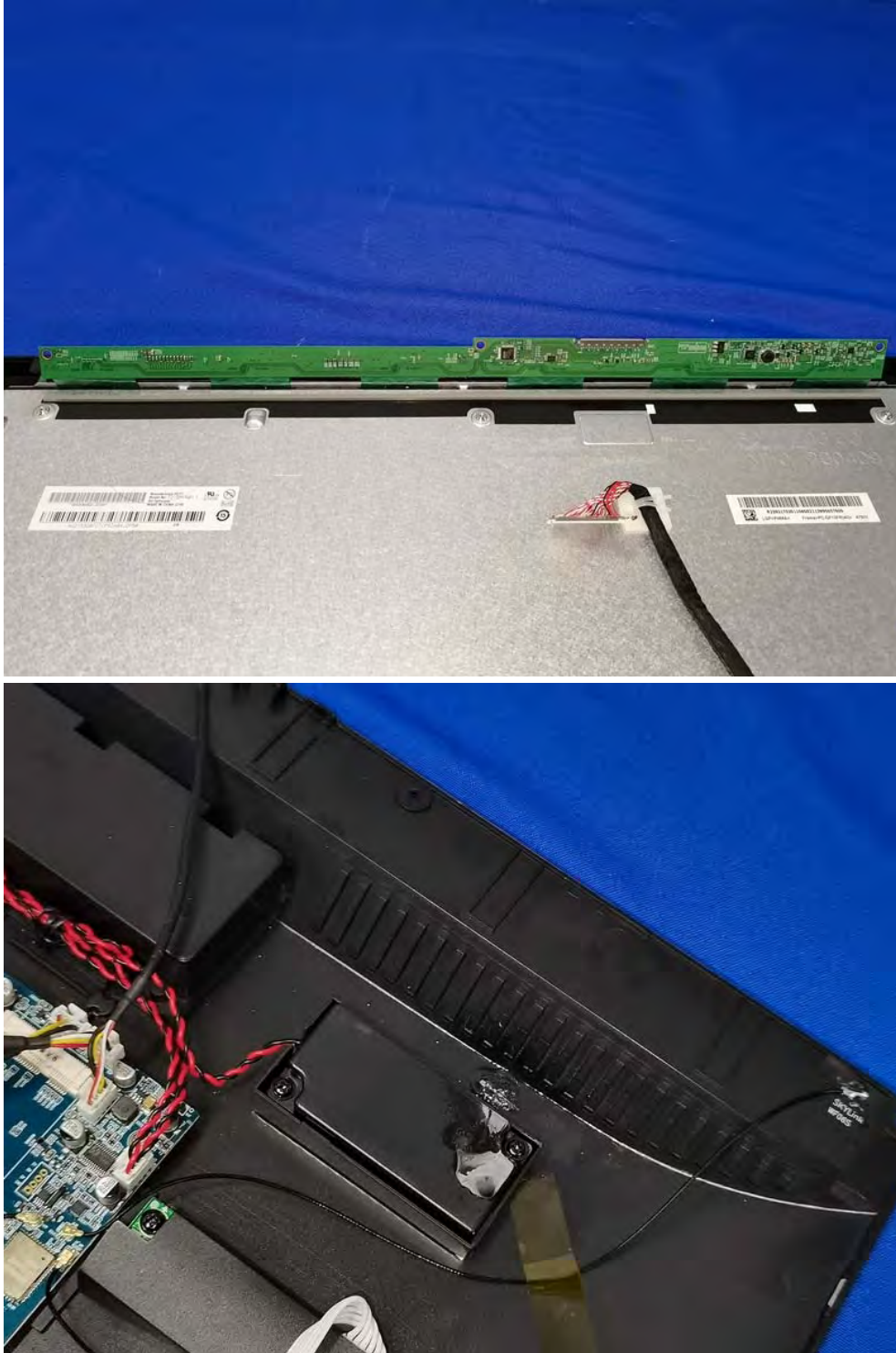


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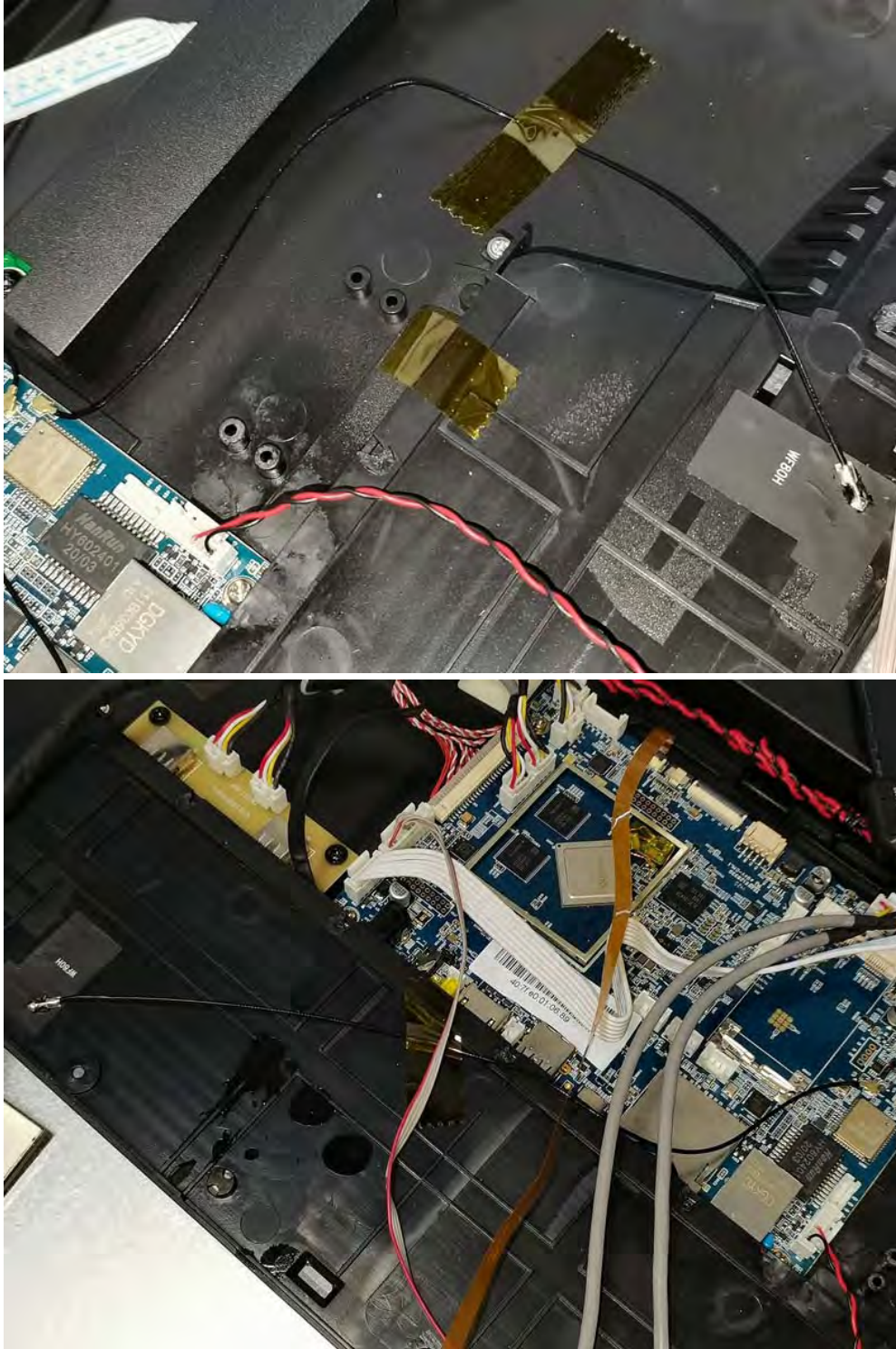


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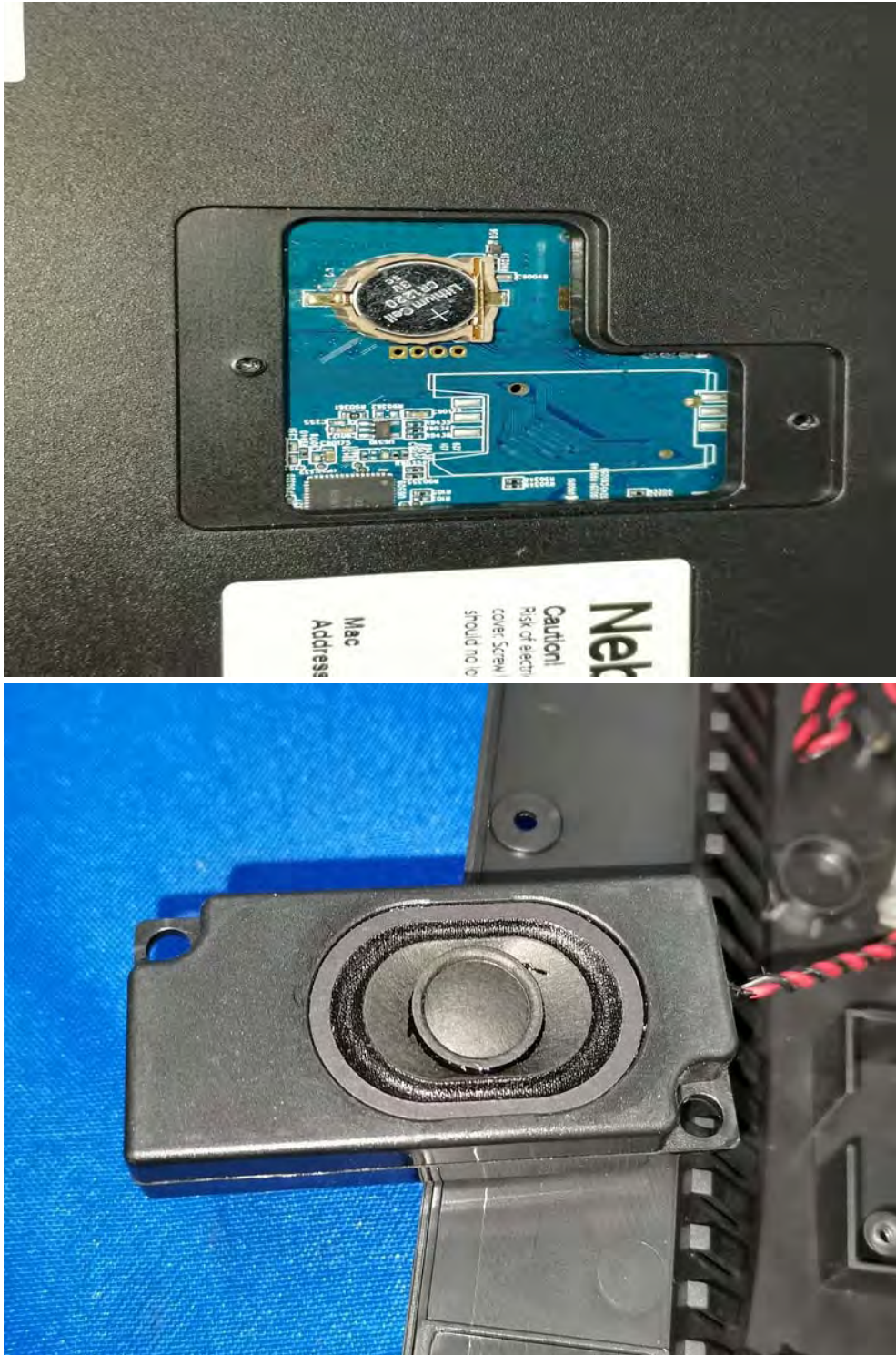
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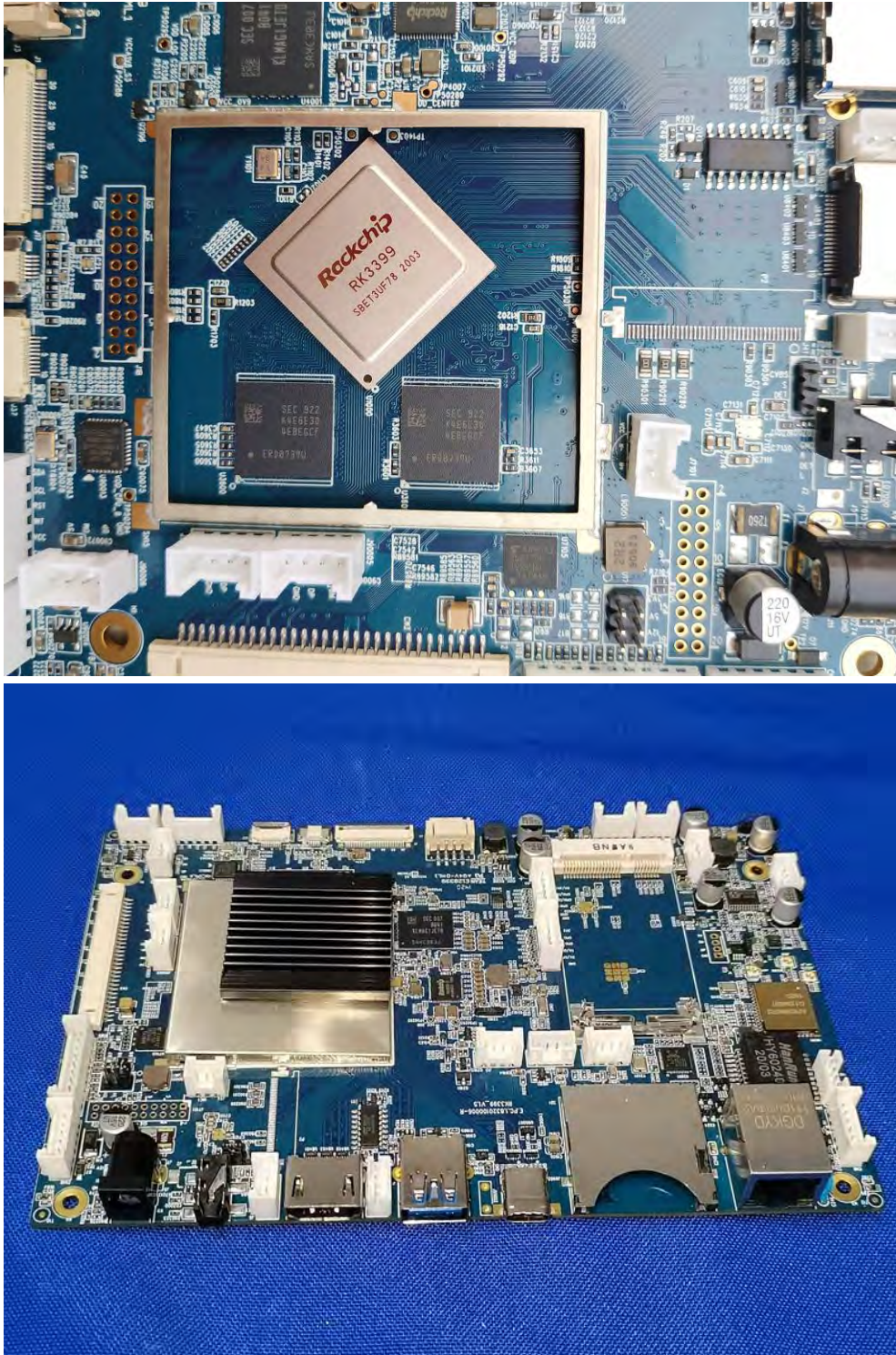
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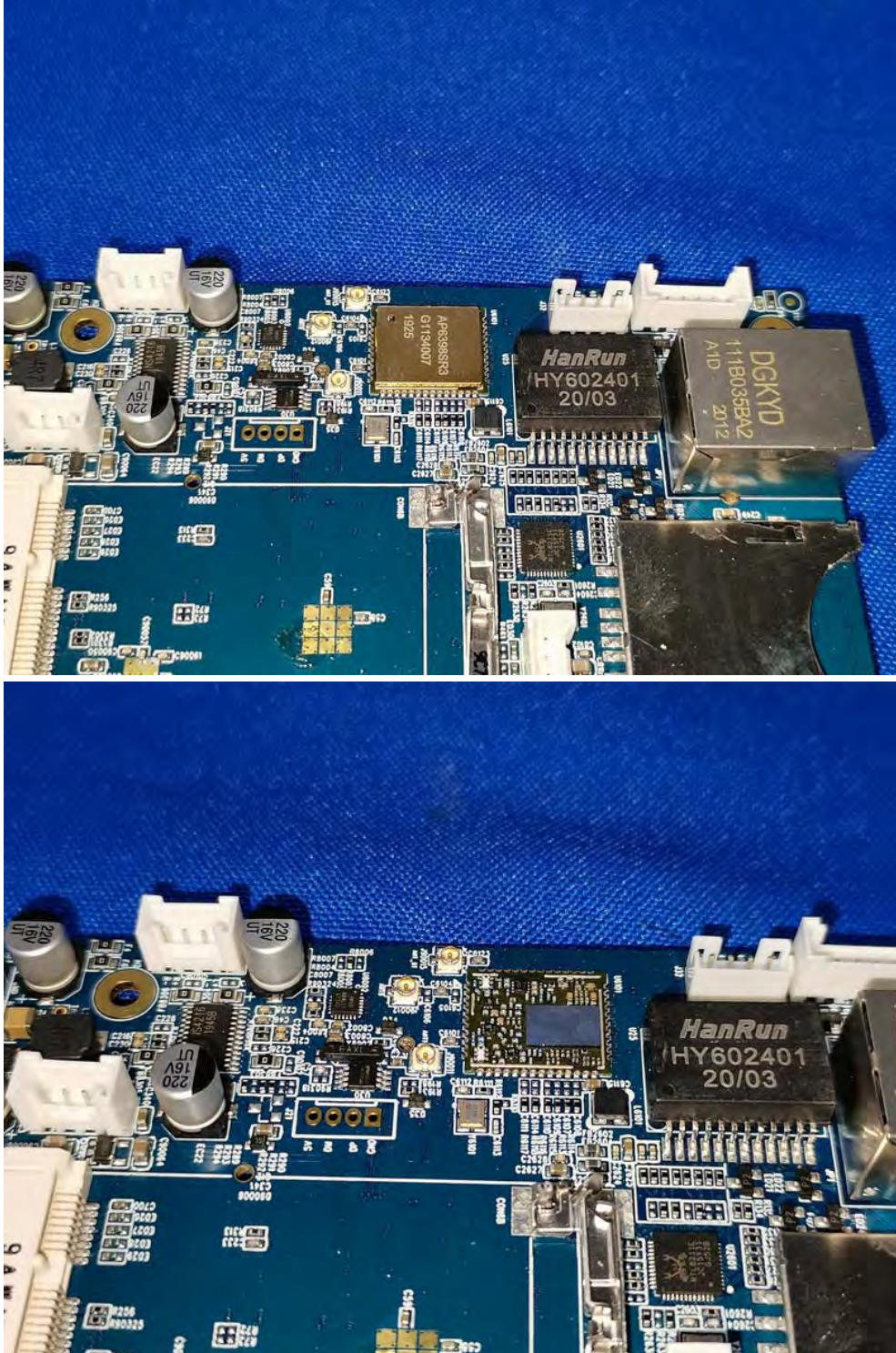
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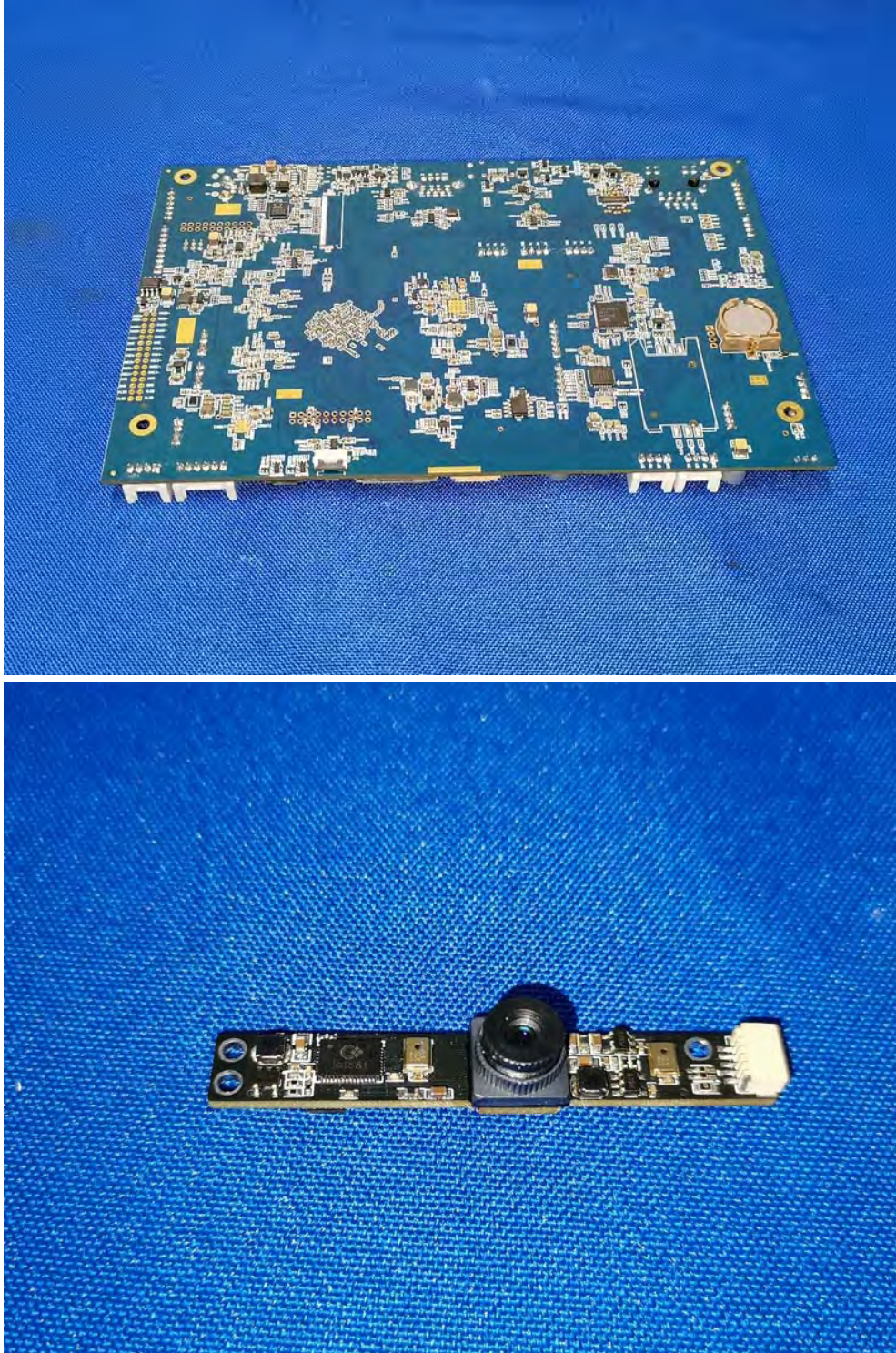


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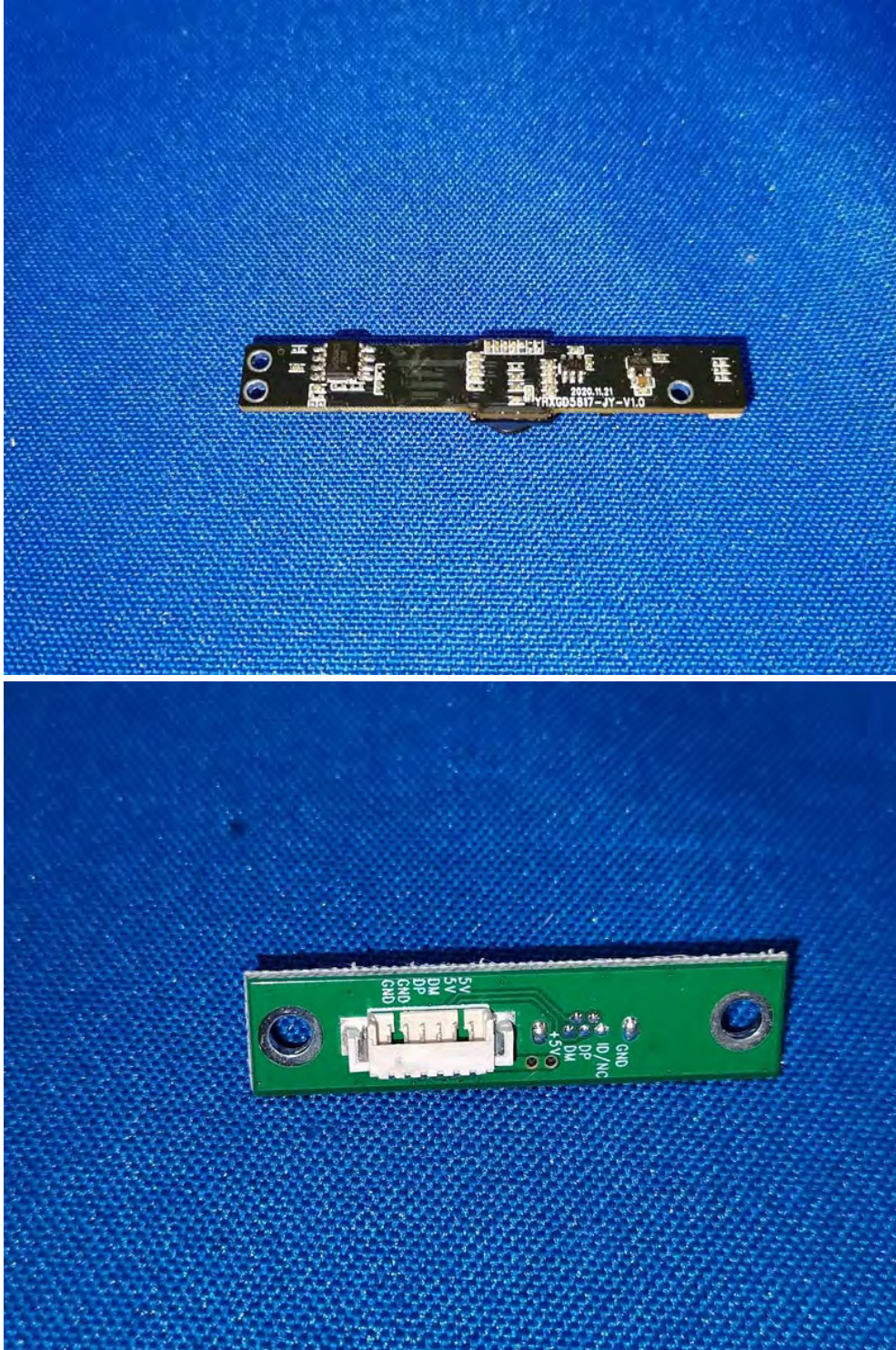
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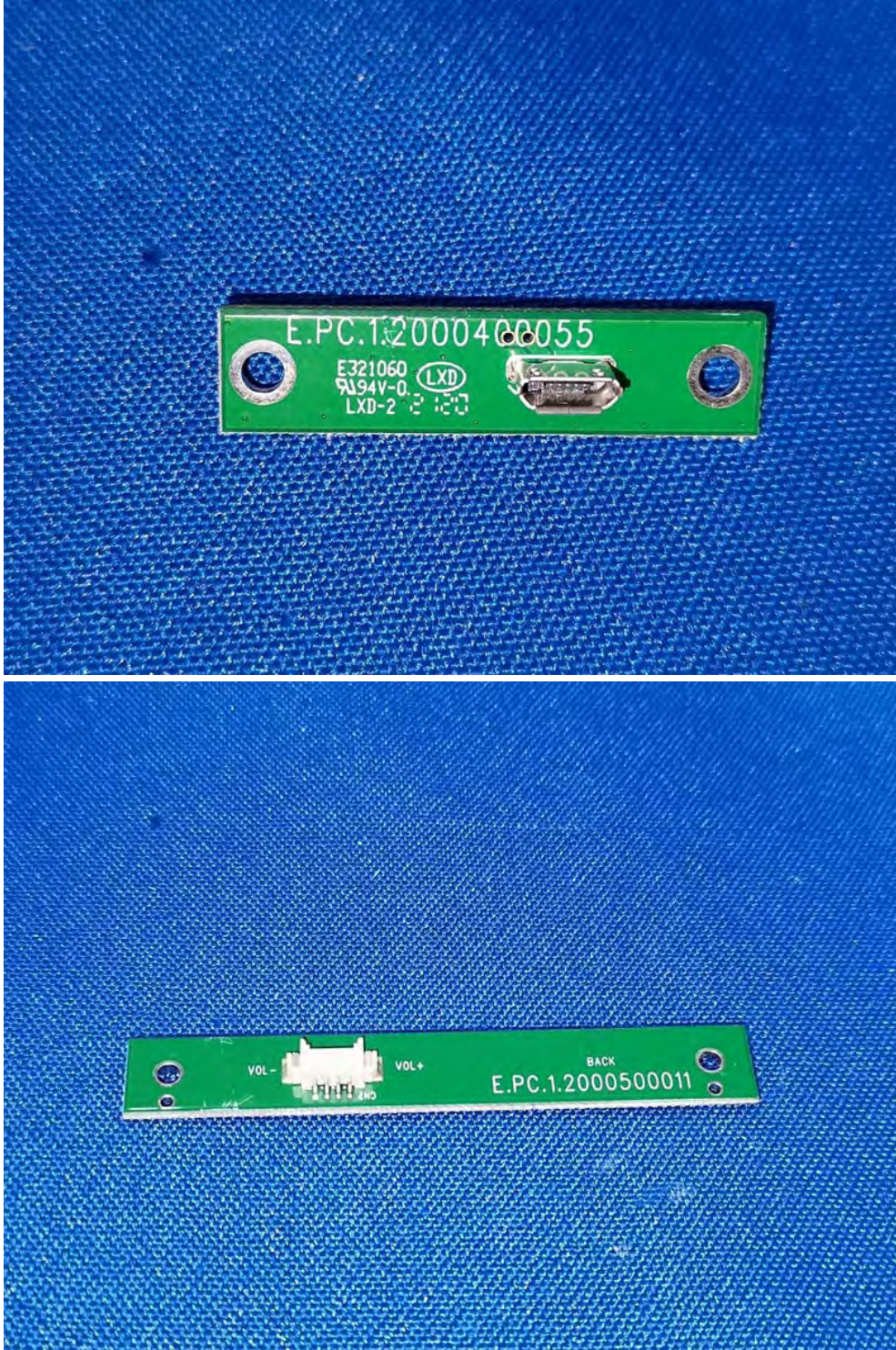


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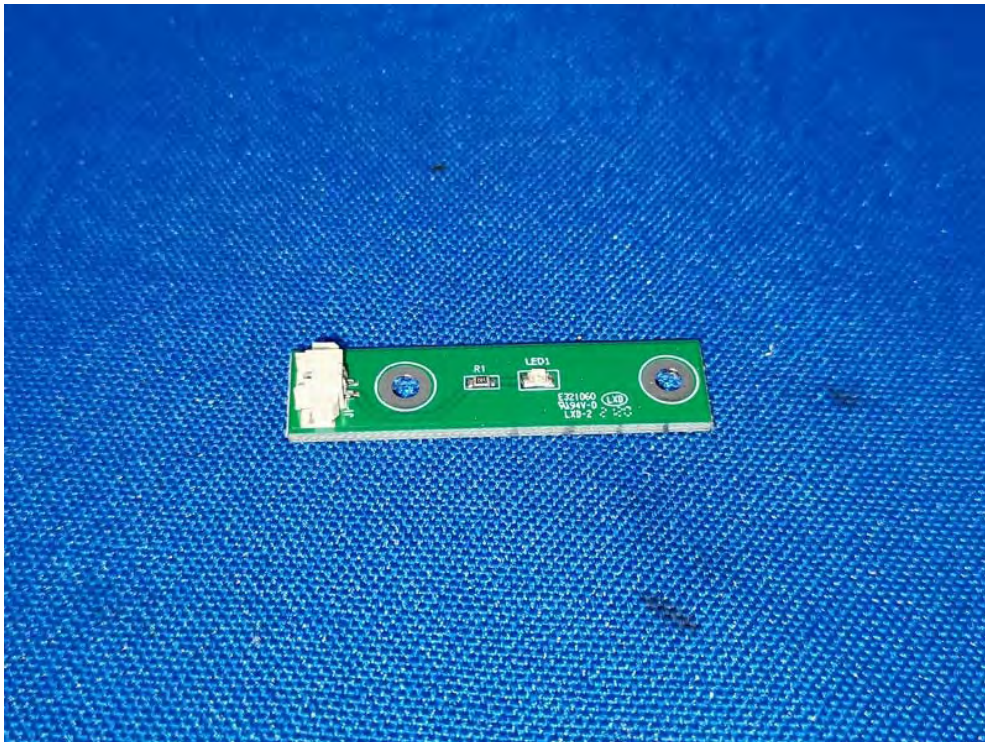
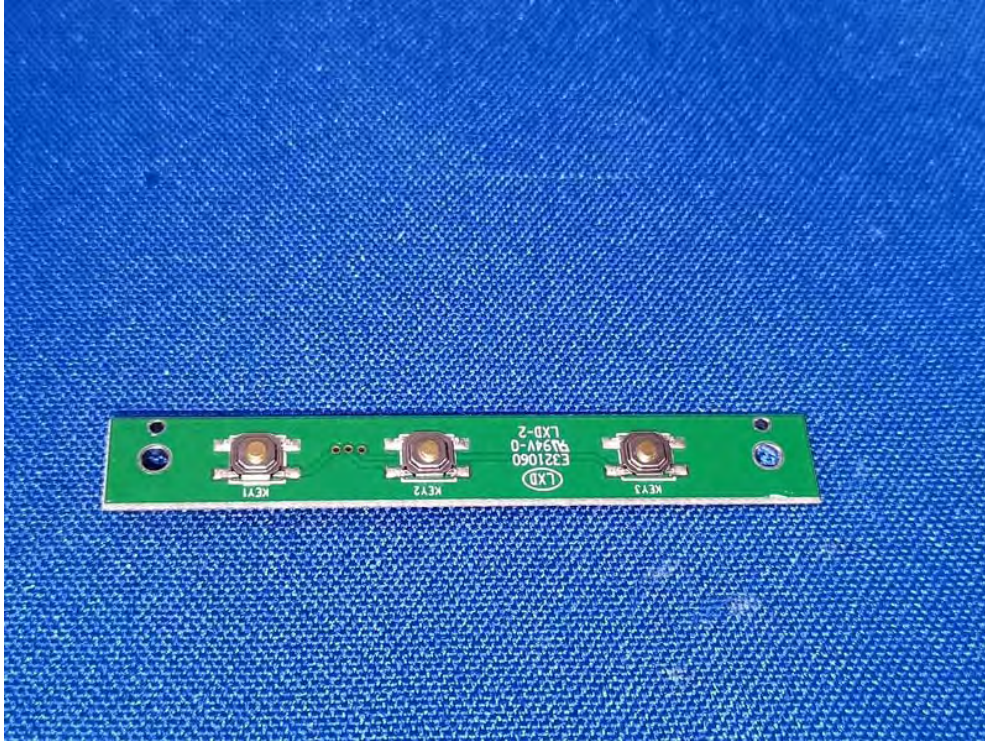
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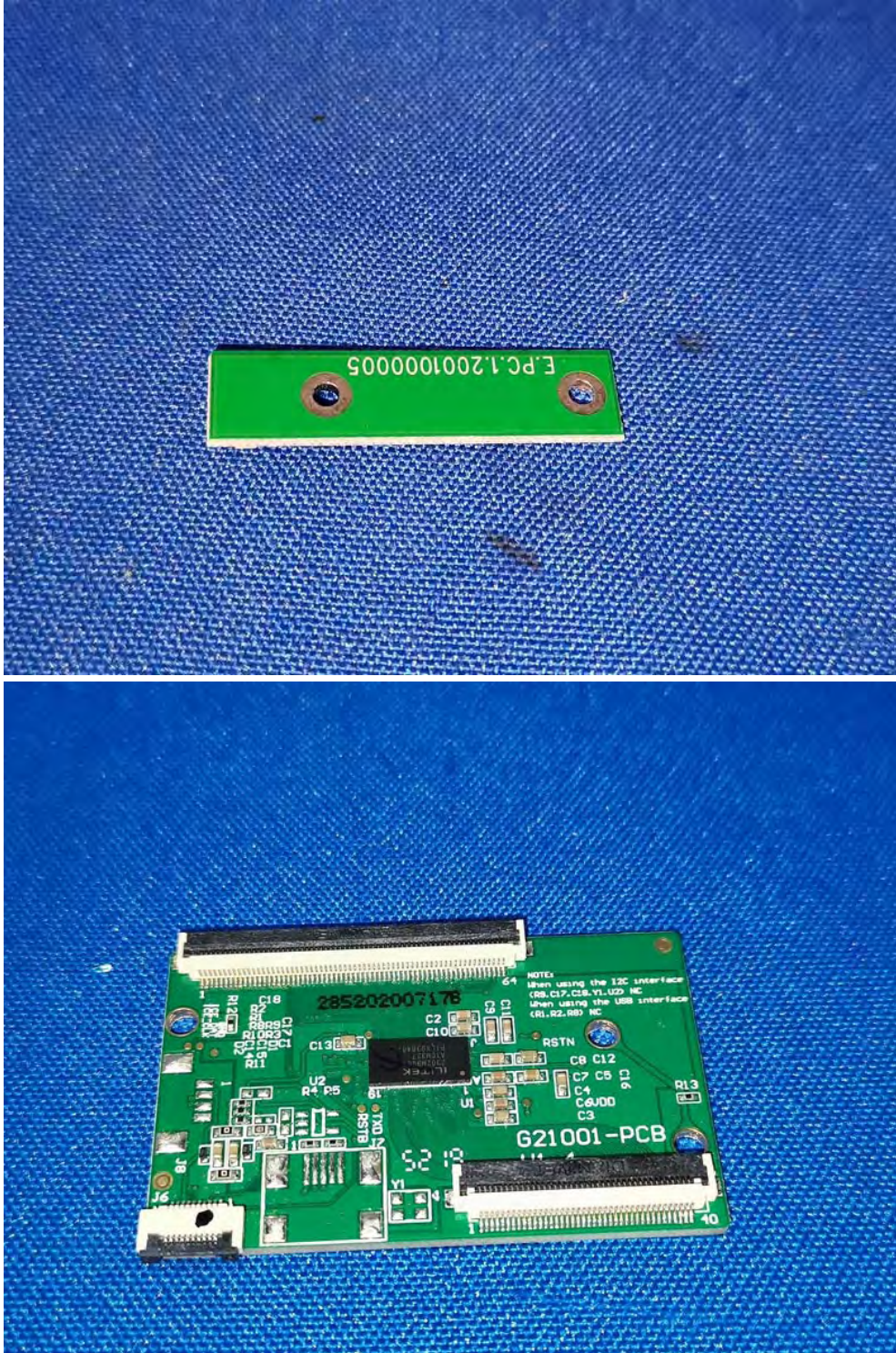
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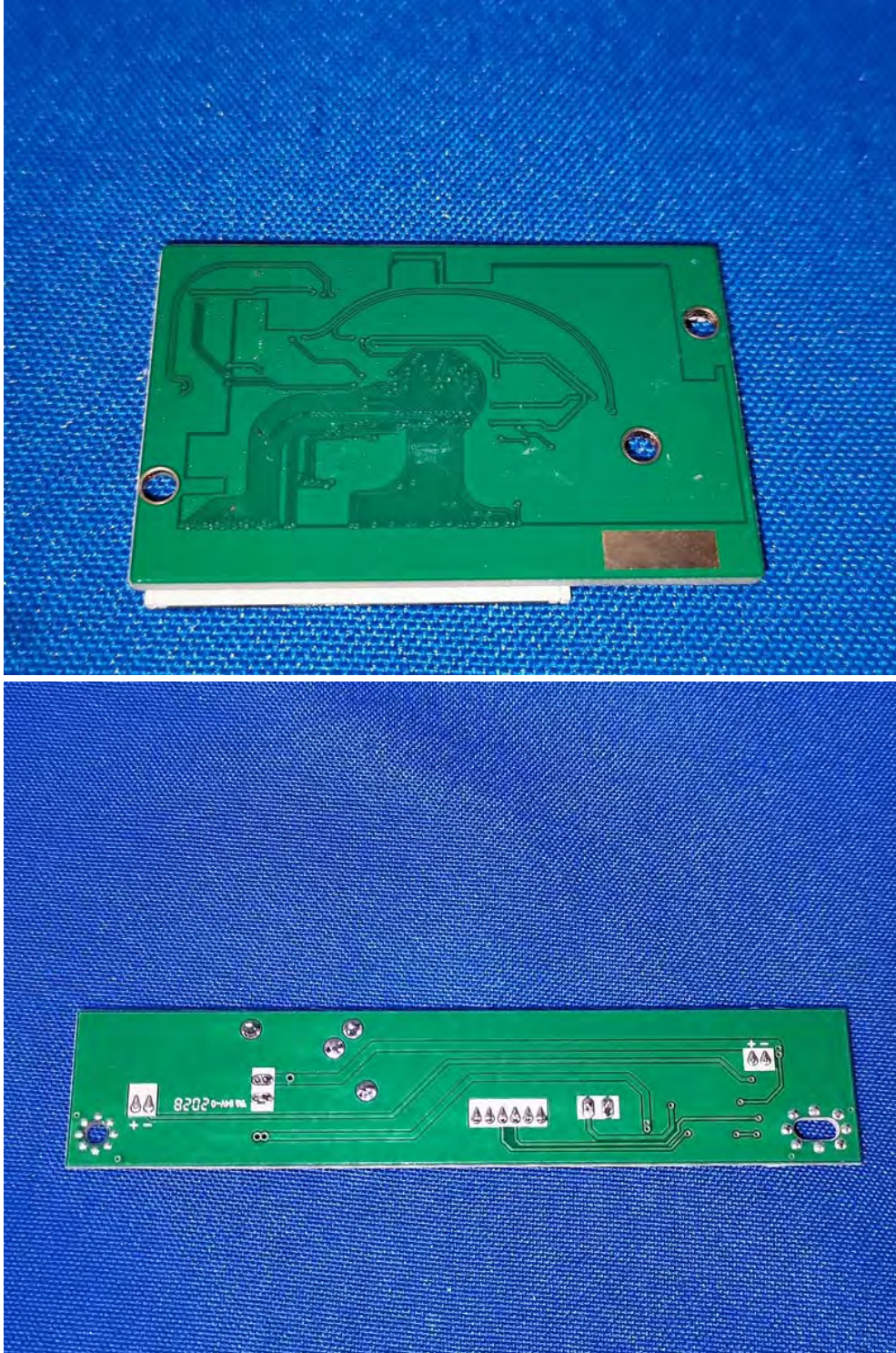
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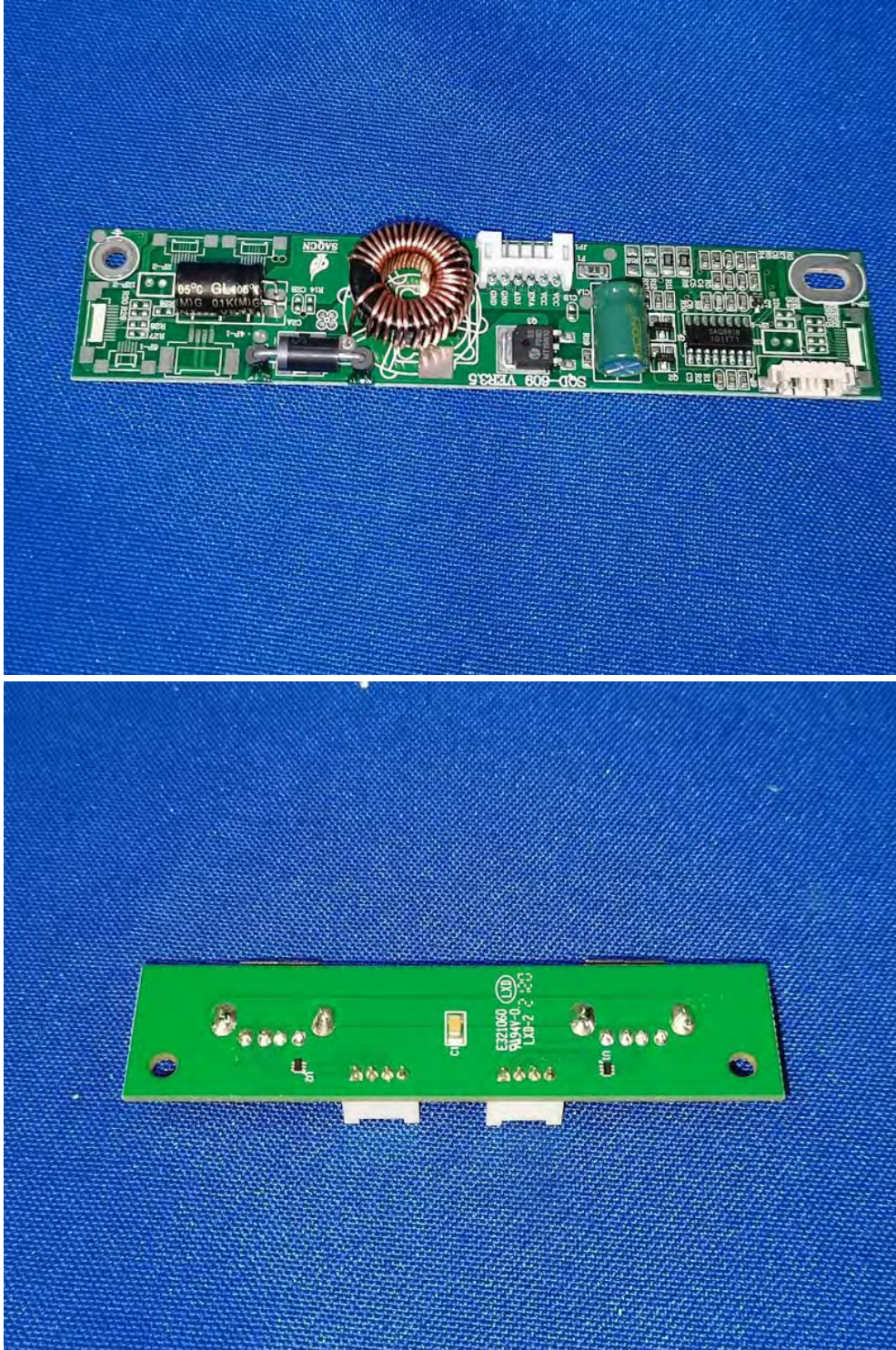
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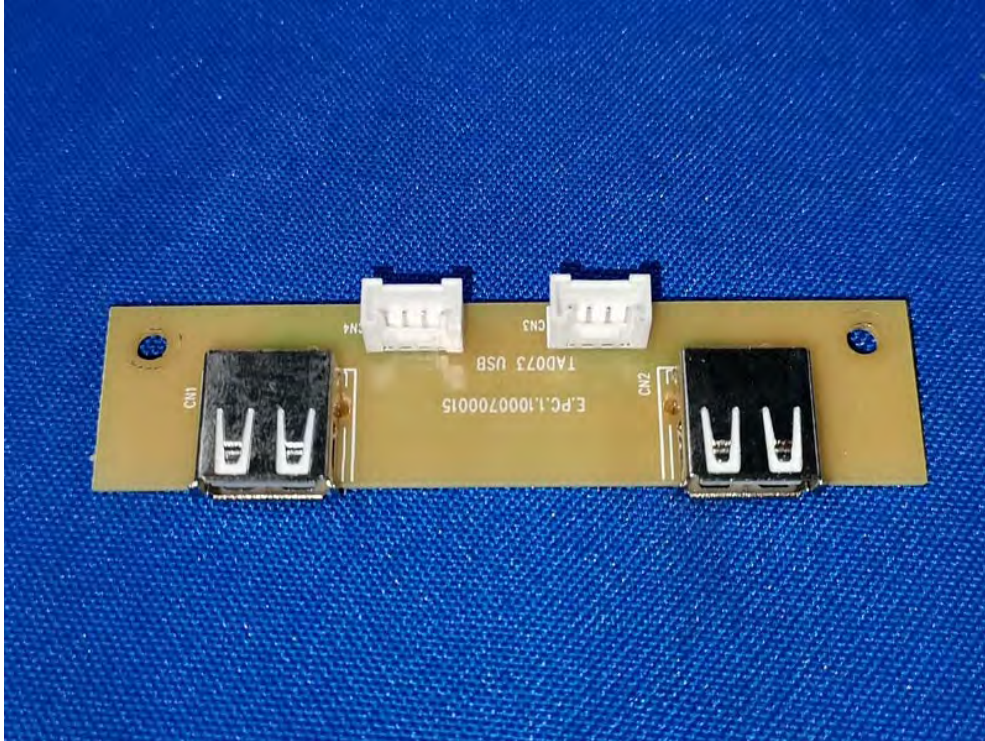
Inside view- Model : NEB215



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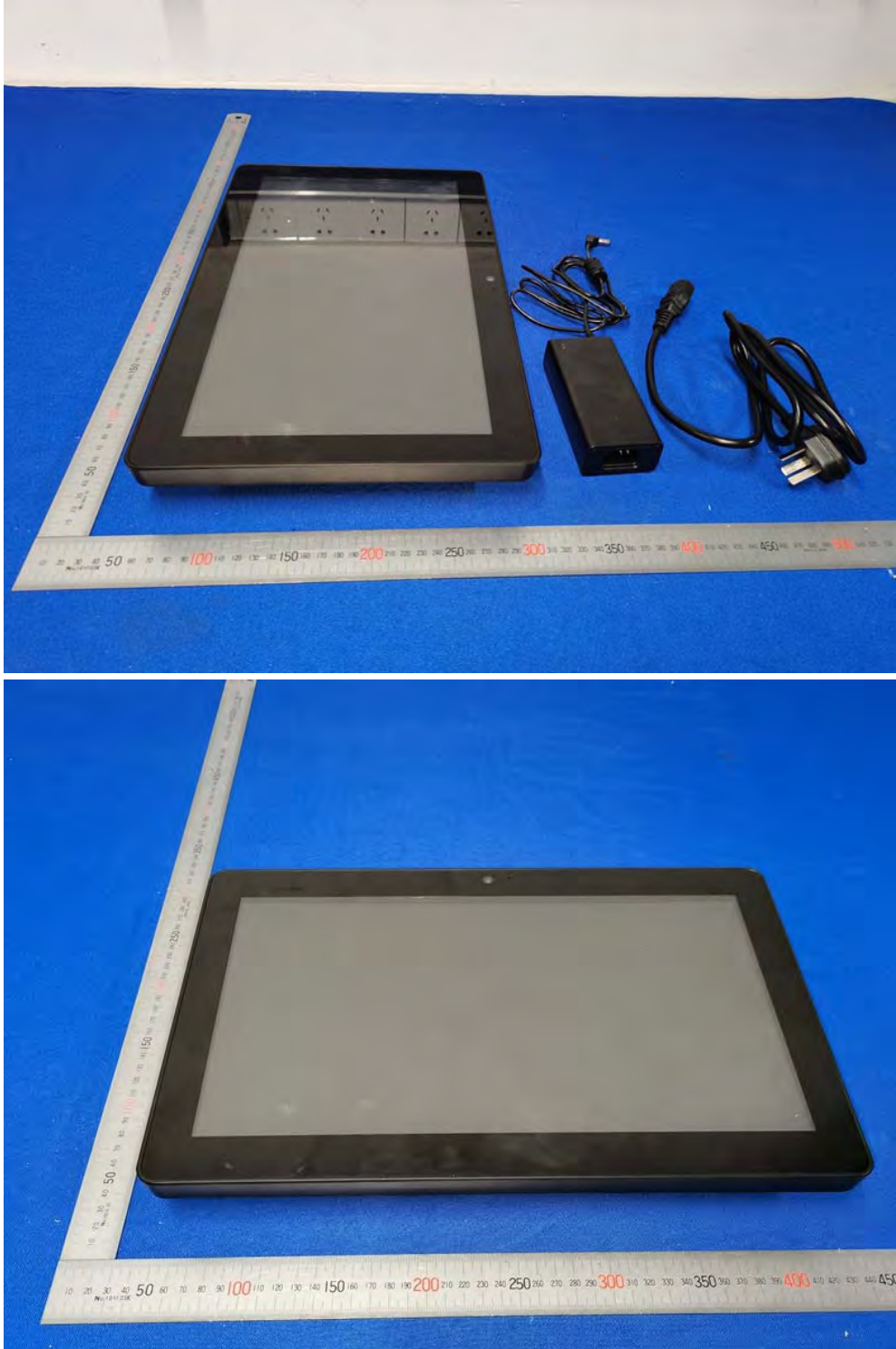
Inside view- Model : NEB215



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Outside View - Model : NEB156



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Outside View - Model : NEB156



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Outside View - Model : NEB156

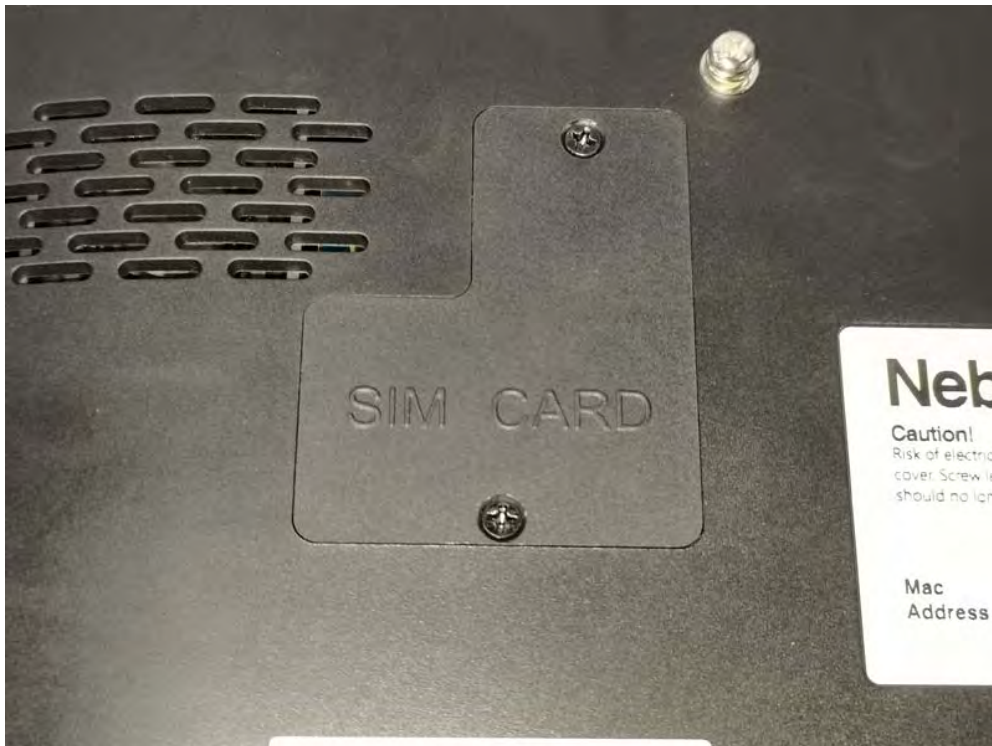


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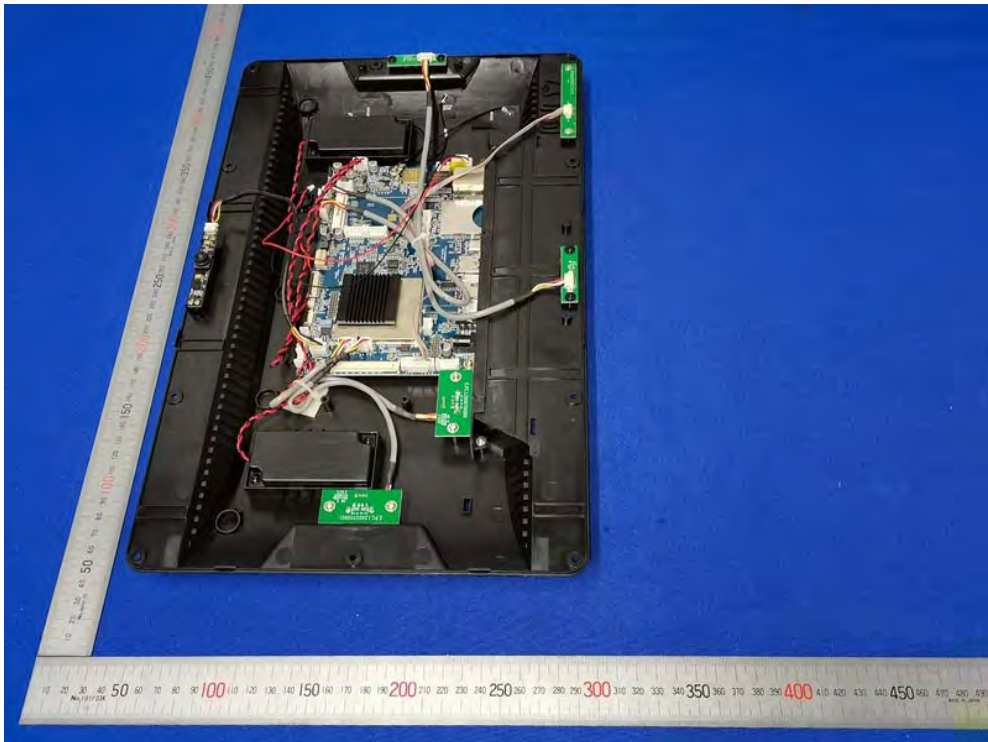
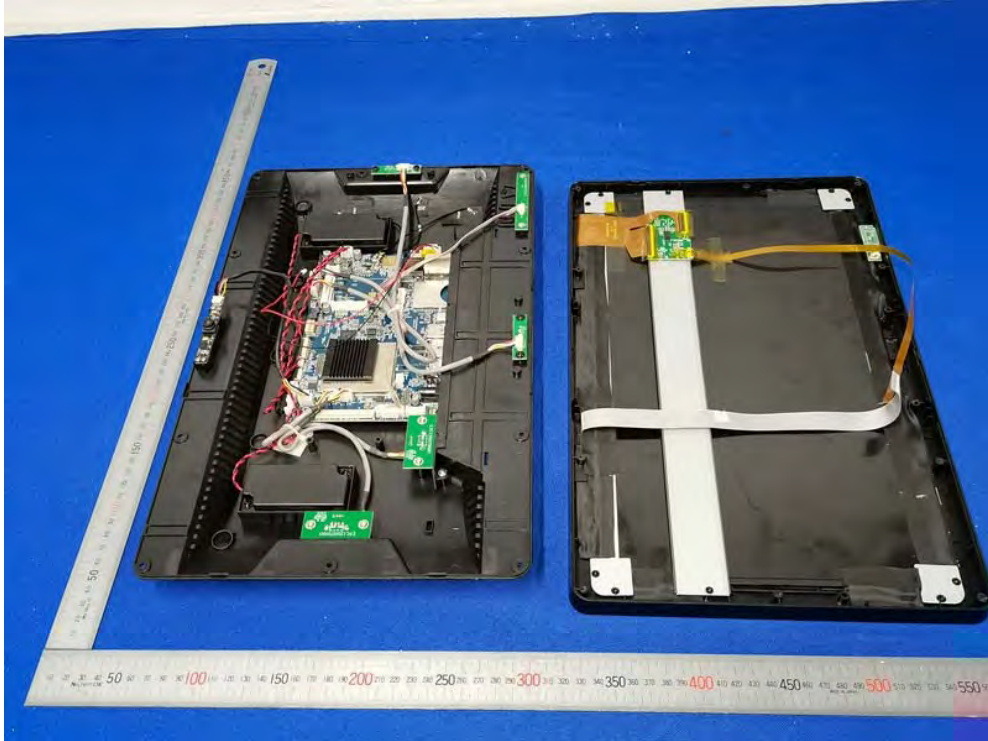
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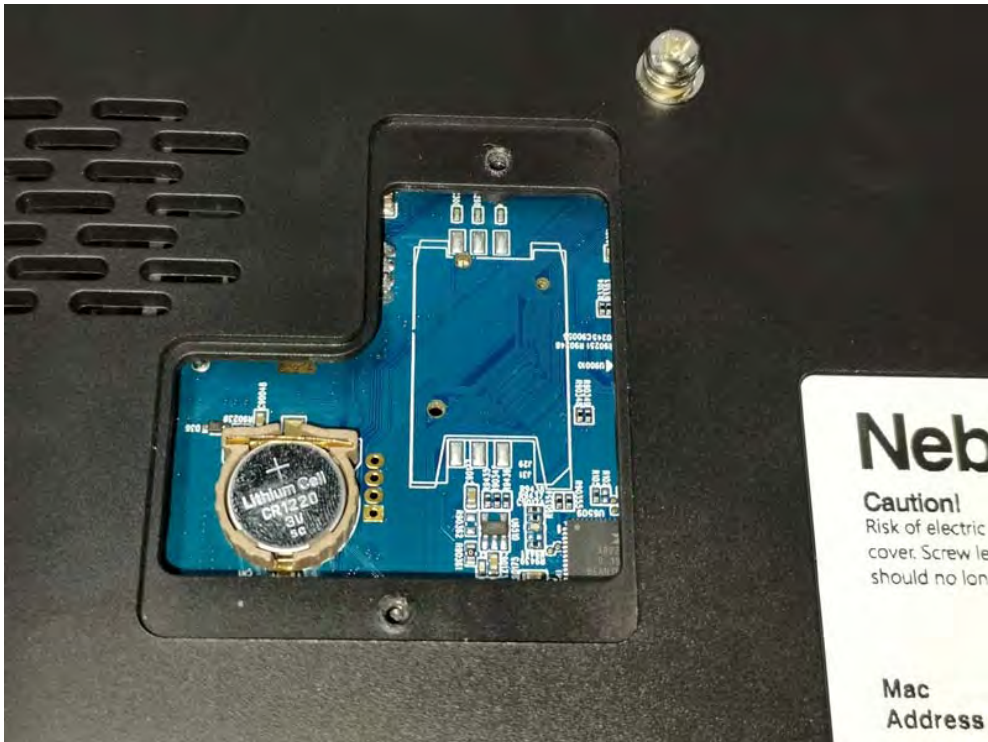
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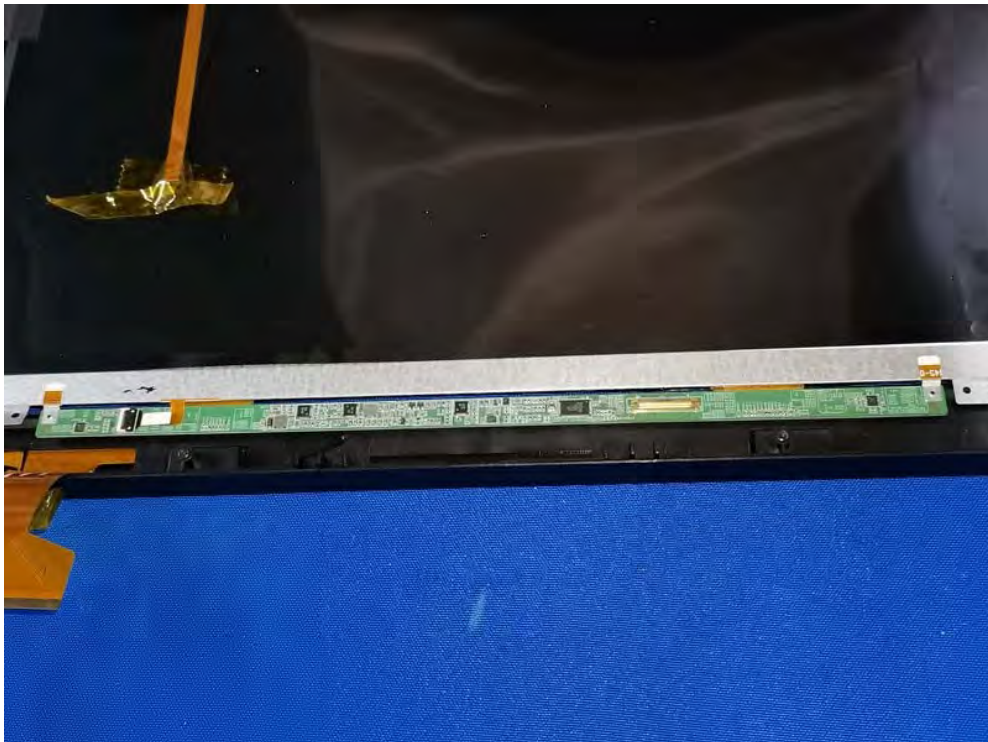
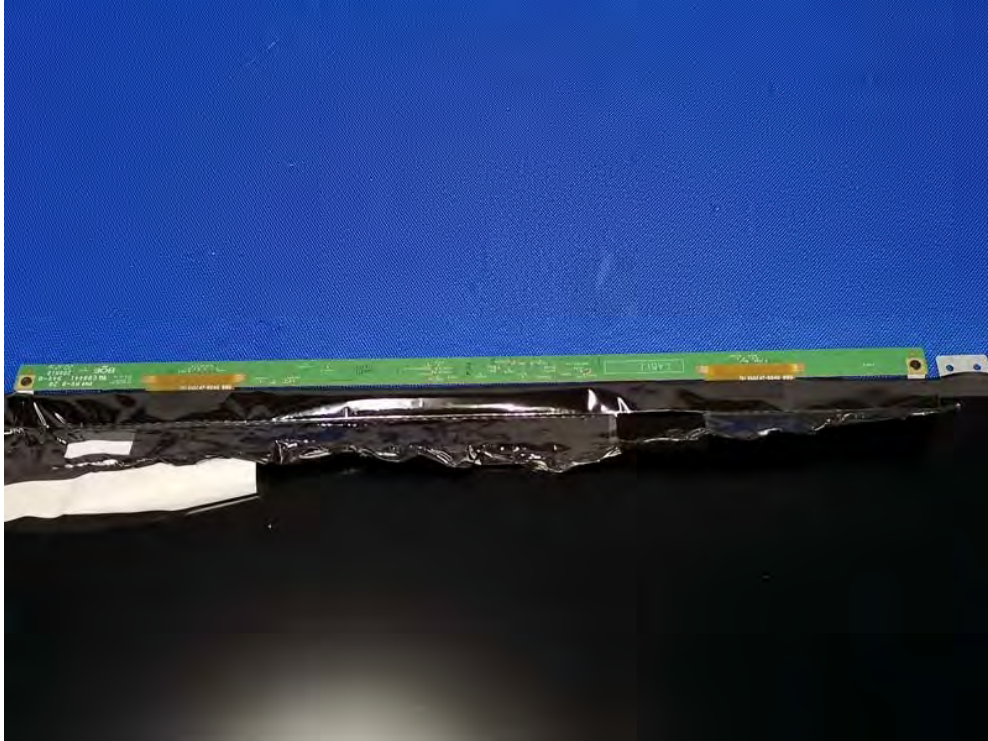
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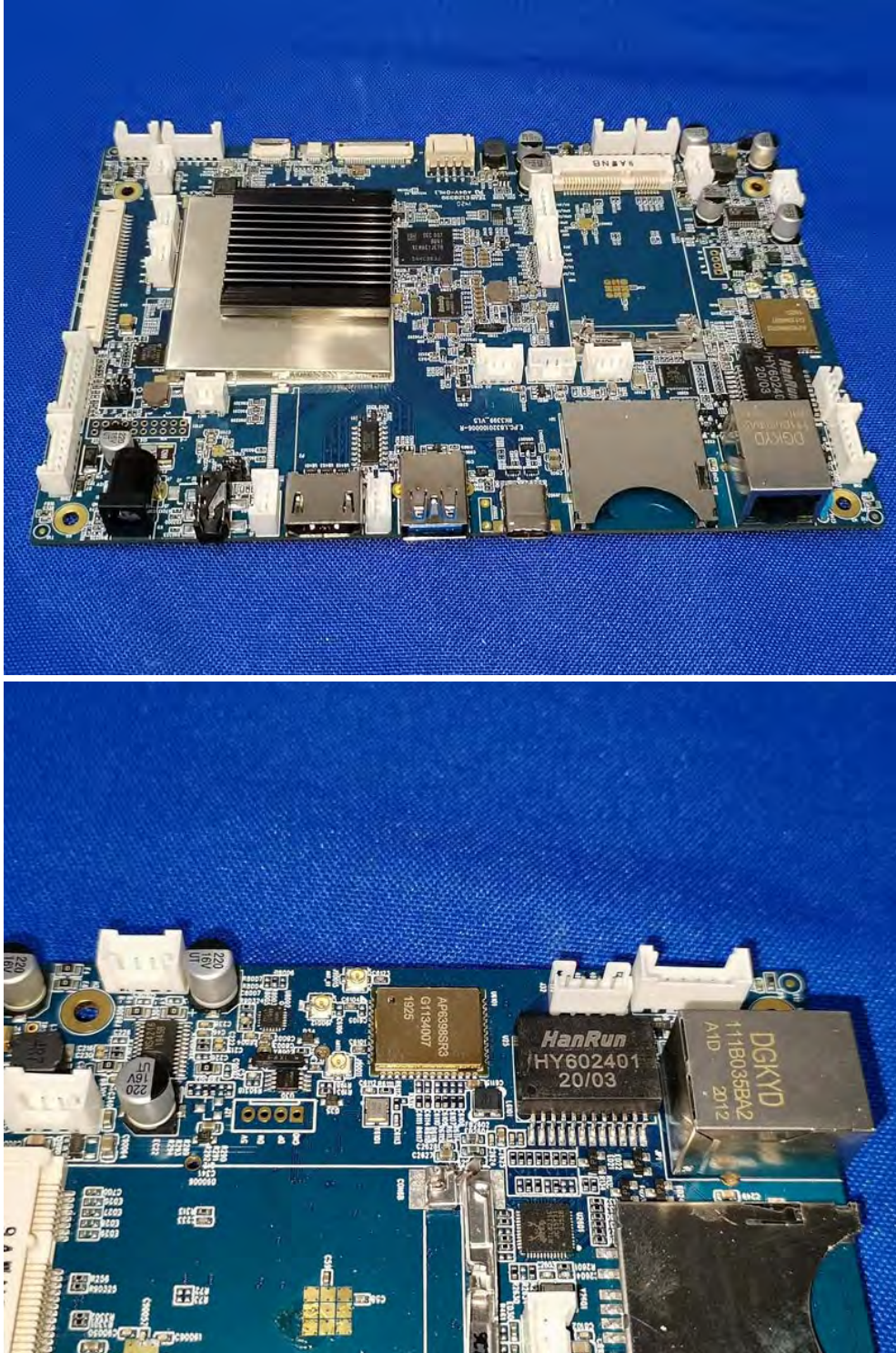
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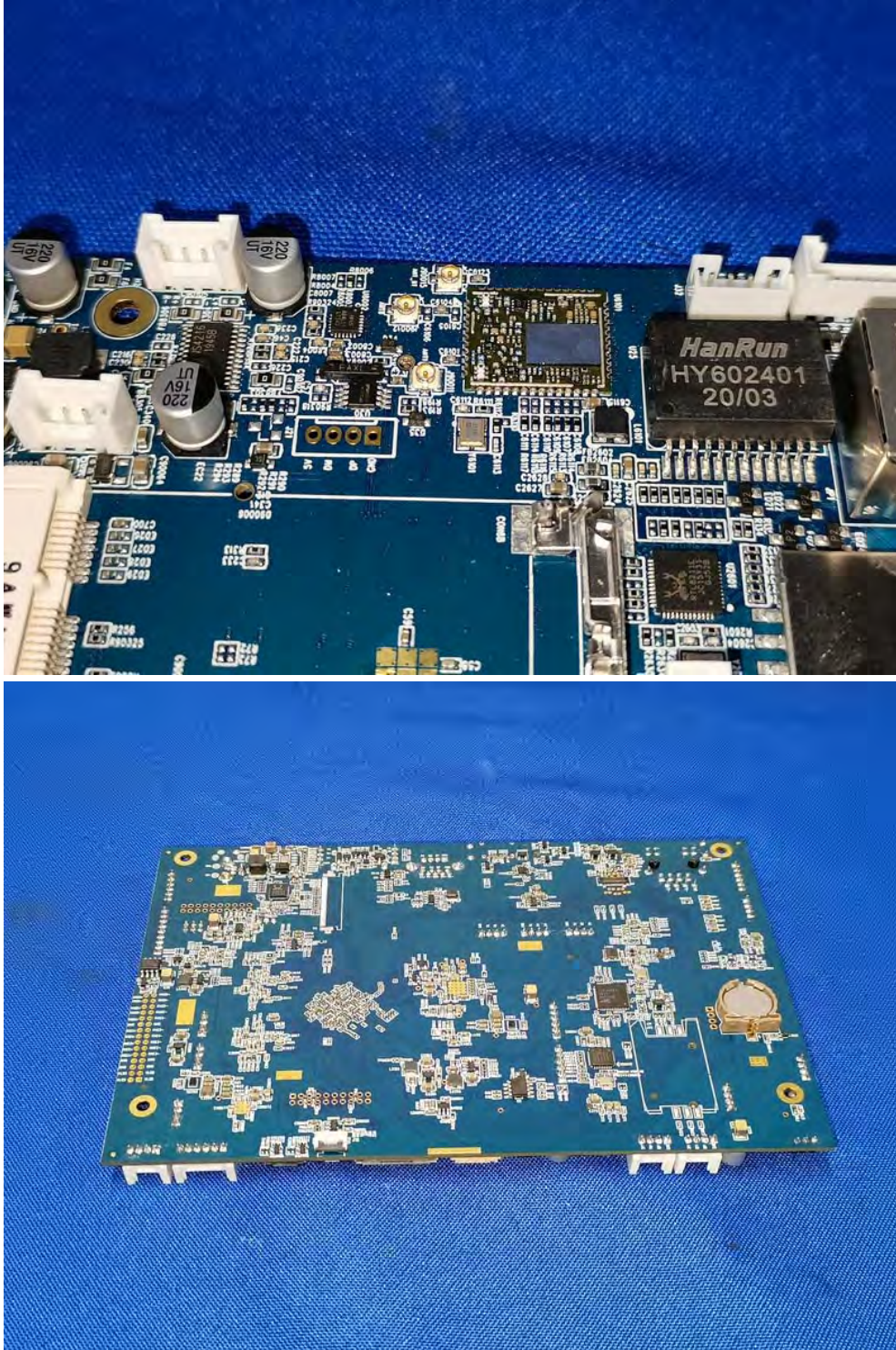
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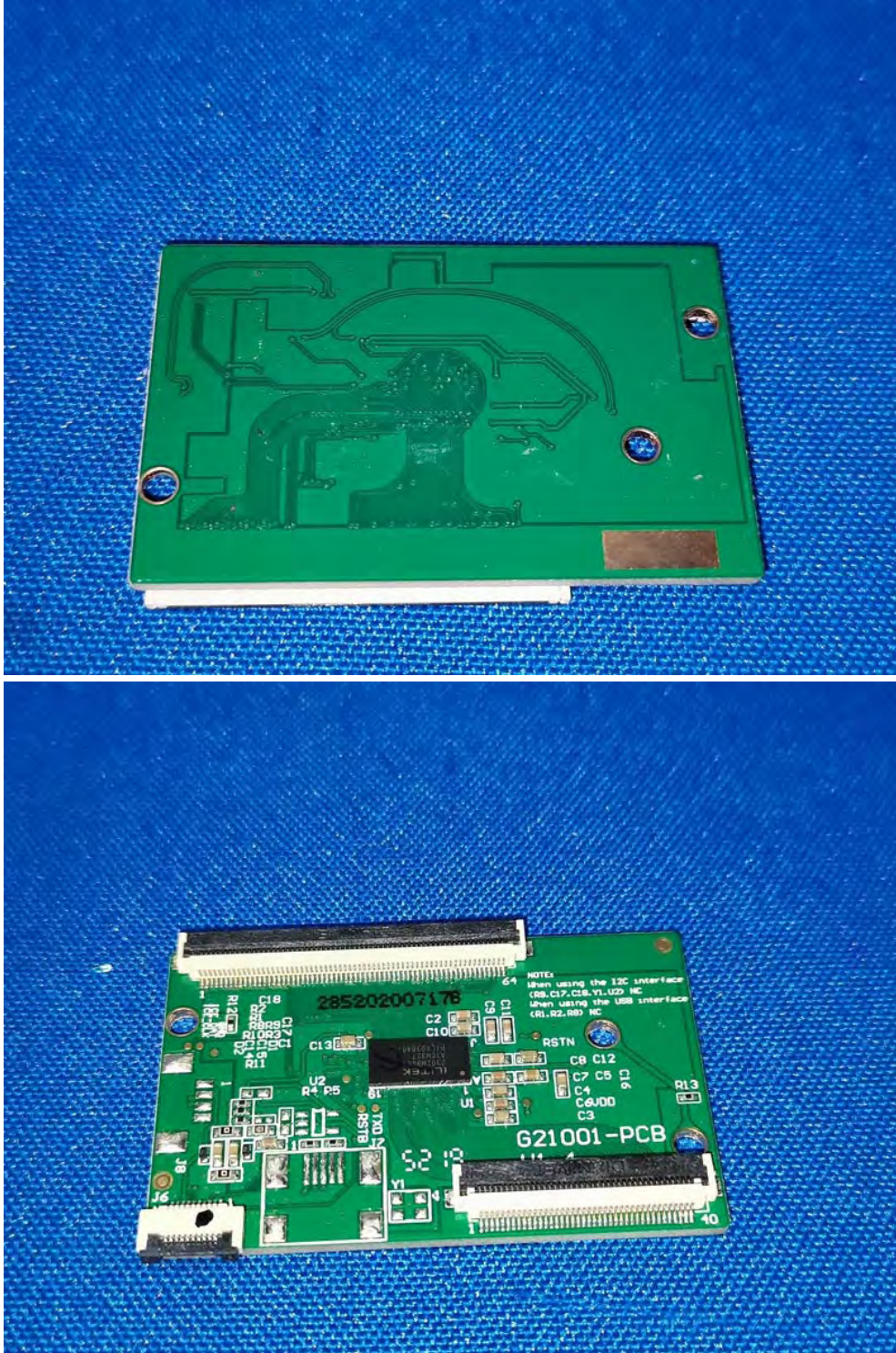


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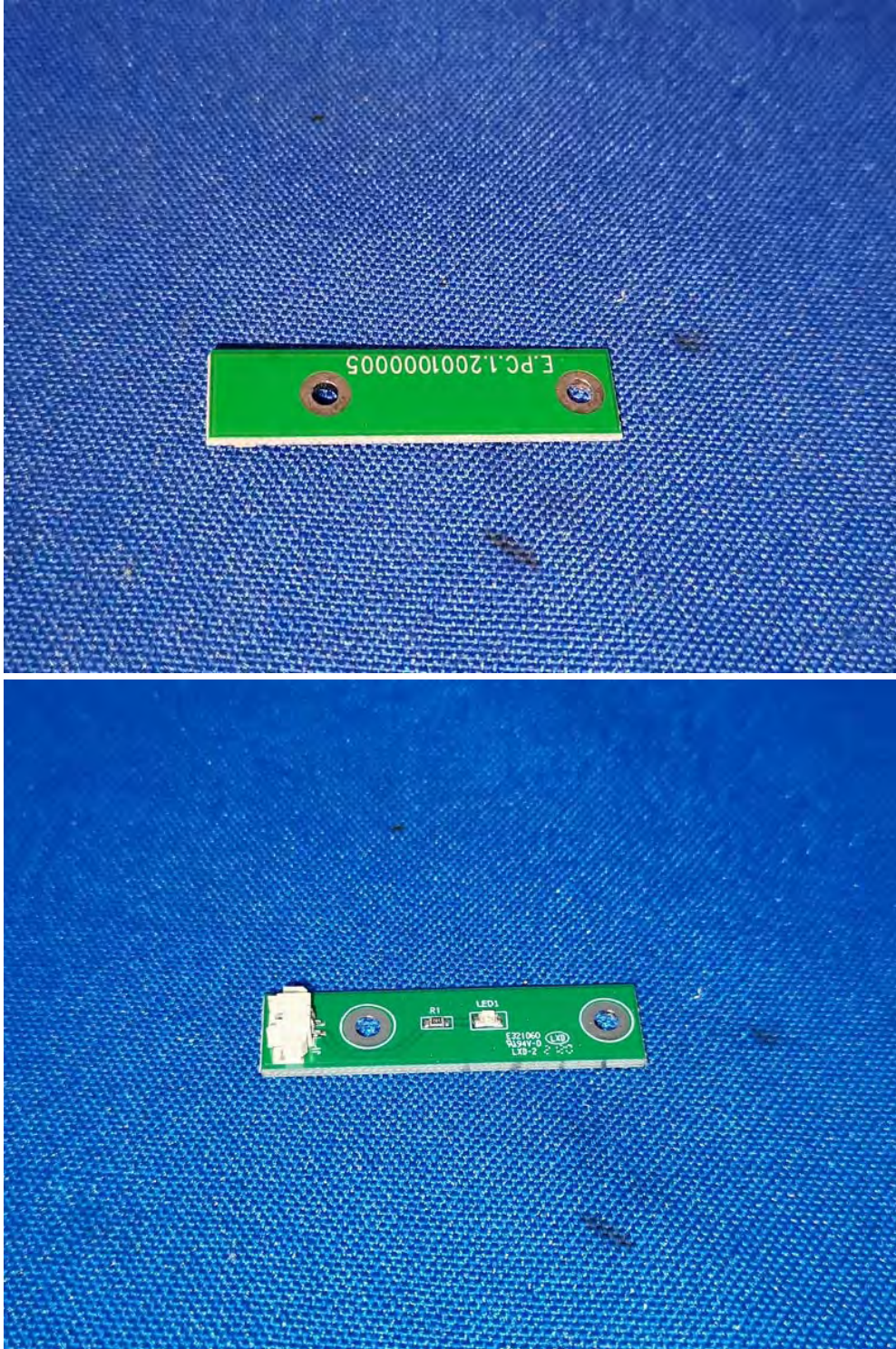
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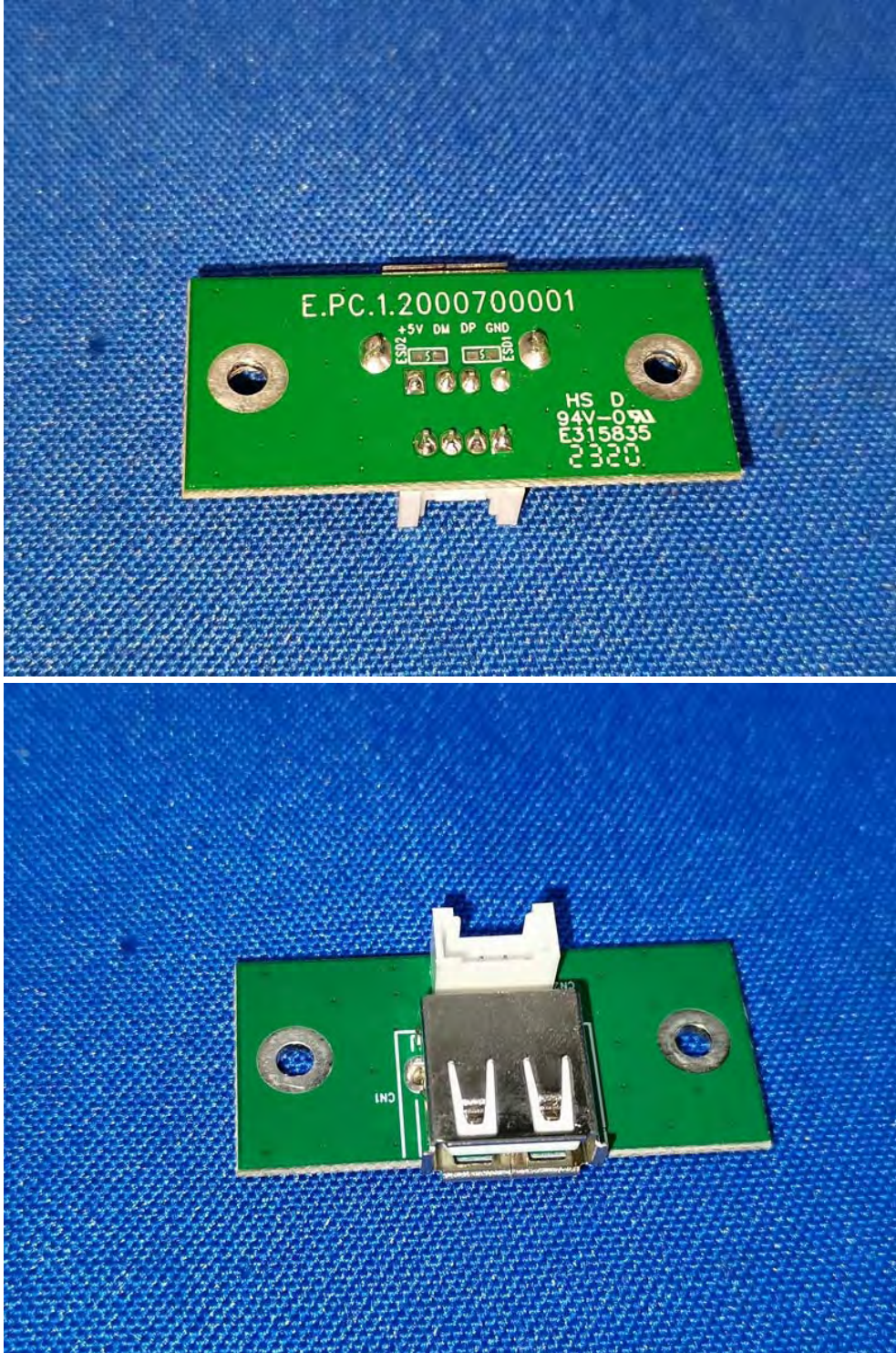
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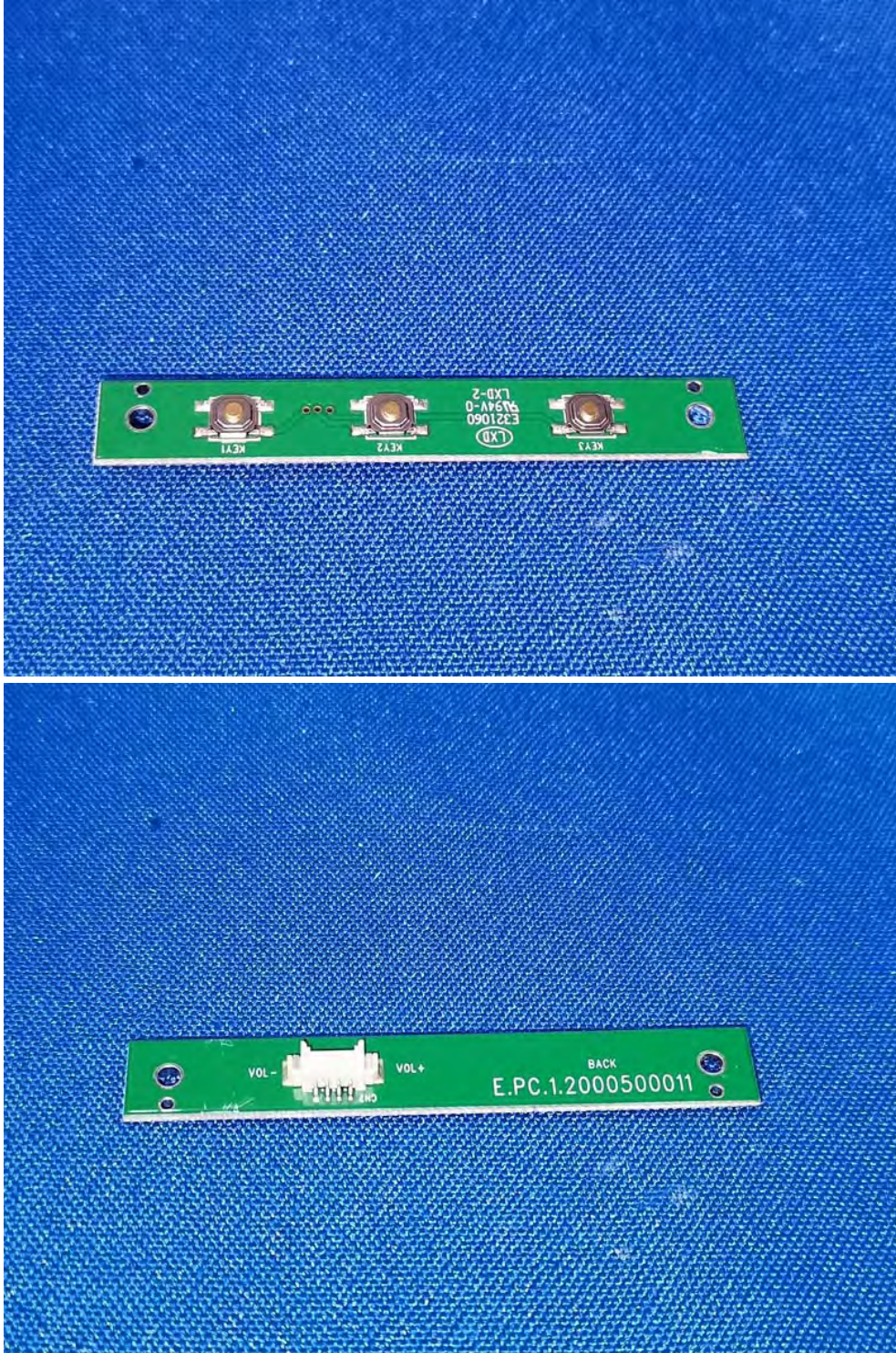


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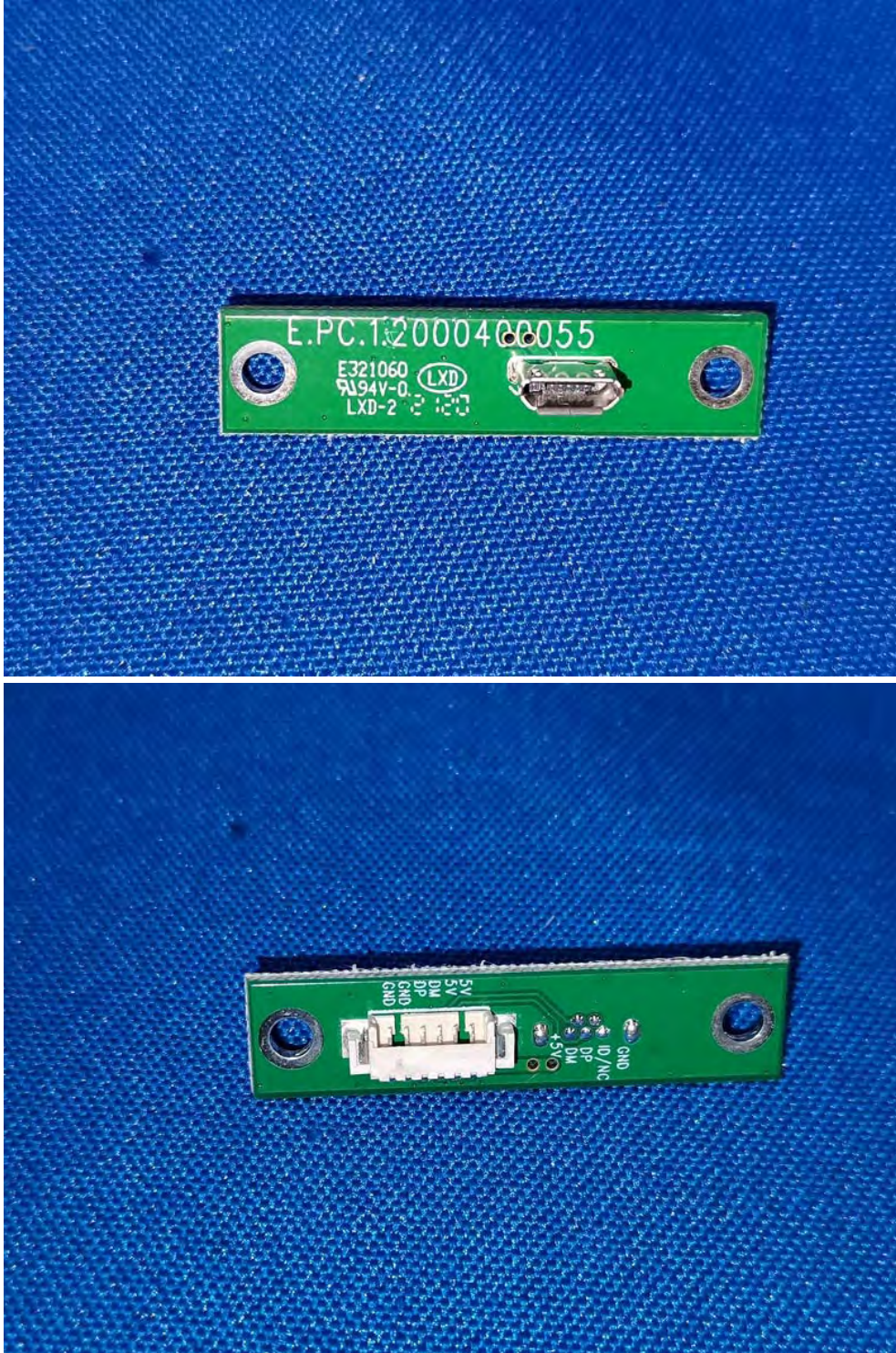
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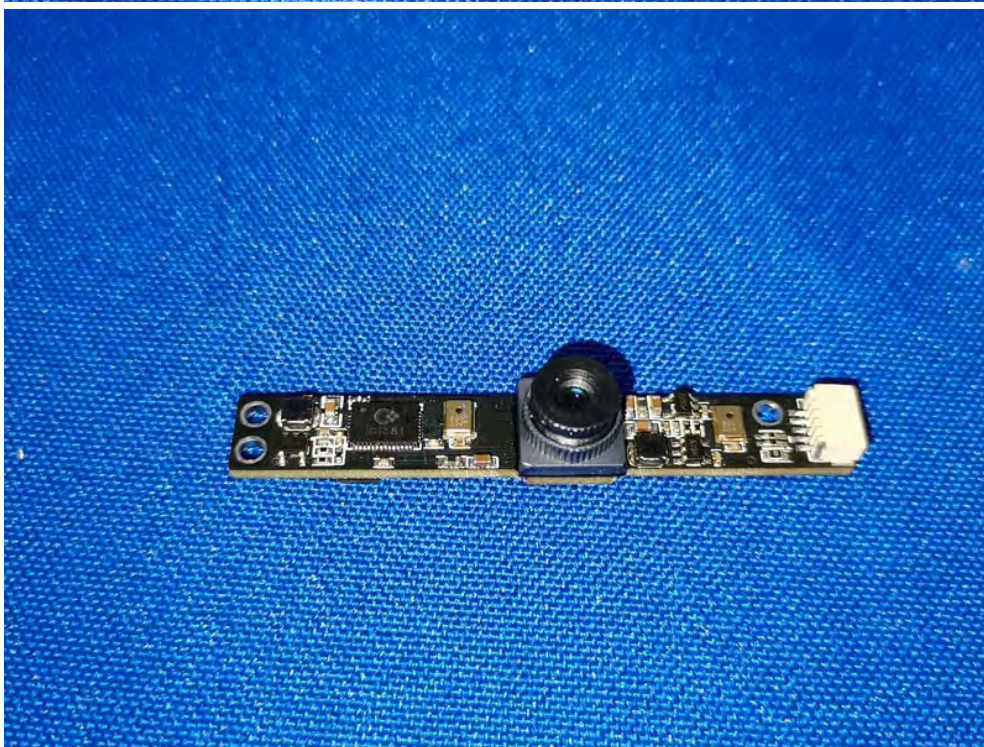
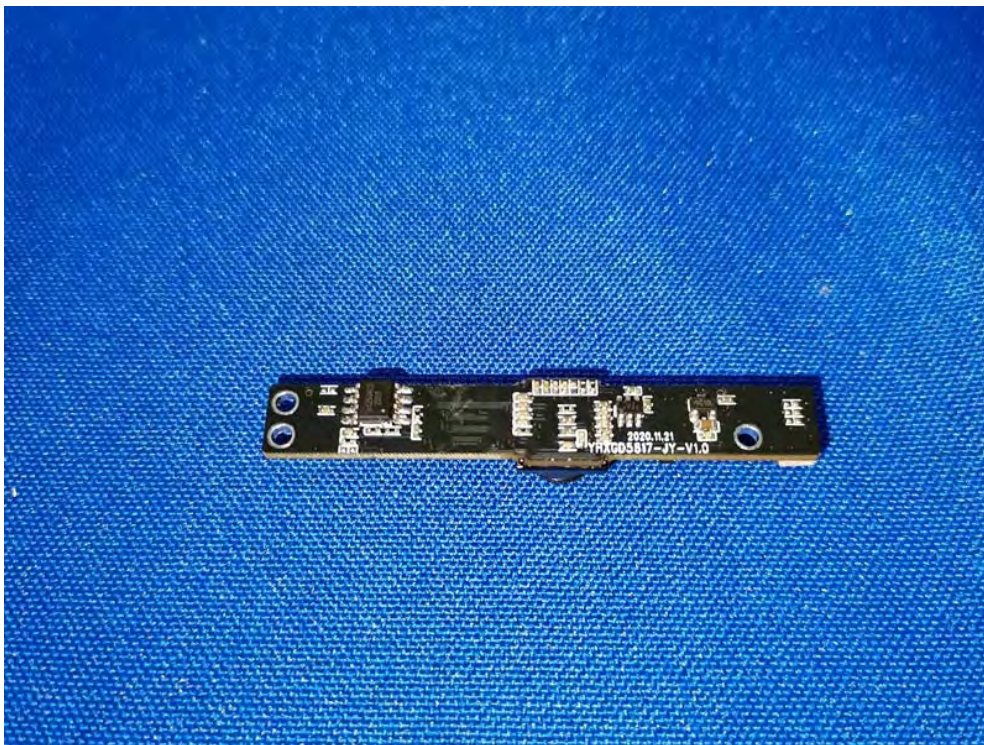
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**End of the report**

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