



Report No:  
File reference No:

FCC 1706166-03  
2017-07-10

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

Product: Advertising Displayer

Model No: JAR215-01

Trademark: N/A

Test Standards: FCC Part 15 Subpart E, Paragraph 15.407

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: July 10, 2017

**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**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, 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:

#### **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 17025:1999 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

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.: 899988.

#### **IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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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: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen, Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.  
Address: 4/Floor,west block,Longzhu Road,Xin WuCun Industry Building,NanShan District,ShenZhen  
Telephone: (755)-26001808-305  
Fax: (755)-26002933

### 1.3 Description of EUT

Product: Advertising Displayer  
Manufacturer: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.  
Address: 4/Floor,west block,Longzhu Road,Xin WuCun Industry Building,NanShan District,ShenZhen  
Brand Name: N/A  
Additional Brand Name: N/A  
Model Number: JAR215-01  
Additional Model Number: N/A  
Type of Modulation IEEE 802.11a/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK);  
IEEE 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM  
Frequency Band 1: 5180MHz-5240MHz;  
Band 4: 5745MHz-5805MHz  
Channel Separation 802.11a/802.11n20:20MHz, 802.11n40:40MHz, 802.11ac : 80MHz  
Air Data Rate IEEE 802.11a : 54, 48,36, 24, 18, 12, 9, 6 Mbps  
IEEE 802.11n/HT20: mcs0: 6.5Mbps,mcs1:13Mbps,mcs2:19.5Mbps,mcs3:26Mbps,  
mcs4:39Mbps,mcs5:52Mbps,mcs6:58.5Mbps,mcs7:65Mbps  
IEEE 802.11n/HT40: mcs0:15Mbps,mcs1:30Mbps,mcs2:45Mbps,mcs3:60Mbps,  
mcs4:90Mbps,mcs5:120Mbps,mcs6:135Mbps,mcs7:150Mbps  
IEEE 802.11ac: Up to 433.3Mbps  
Antenna: Integral antennas used.

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Antenna Gain: Maximum 3.0dBi  
Test Mode: During testing, EUT was set to 100% duty cycle. 6Mbps air data rate was the worst case for 802.11a mode; mcs0 air data rate was the worst case for 802.11n mode; 23.9Mbps air data rate was the worst case for 802.11ac mode.  
Frequency Selection By software  
Input Voltage: DC12V  
Power Adapter Model: LYD1205000UA;  
Input: 100-240V, 50/60Hz, 1.6A; Output: 12V, 5A

Each Channel Operation Frequency

Band 1					
802.11a / 11n HT20 / 802.11ac VHT20		802.11n HT40 / 802.11acVHT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
44	5220 MHz				
48	5240 MHz				
Band 4					
802.11a / 11n HT20 / 802.11ac VHT20		802.11n HT40 / 802.11acVHT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	151	5755 MHz	155	5775 MHz
153	5765 MHz	159	5795 MHz		
157	5785 MHz				
161	5805 MHz				

The selected test channels as follows:

Band 1					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
48	5240 MHz				
Band 4					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	151	5755 MHz	155	5775 MHz
153	5765 MHz	159	5795 MHz		
161	5805 MHz				

Note: 802.11ac VHT20/VHT40 is similar with 802.11n HT20/HT40.

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration  
2017-04-20 to 2017-07-09

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer *Terry Tang*  
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	2016-08-22	2017-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2016-08-22	2017-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2016-08-22	2017-08-21
Ultra Broadband ANT	R&S	HL562	100157	2016-08-23	2017-08-22
ESDV Test Receiver	R&S	ESDV	100008	2016-08-22	2017-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2016-08-22	2017-08-21
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2016-08-23	2017-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2016-08-22	2017-08-21
3m OATS	--	--	N/A	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2016-08-24	2017-08-23
Power meter	Anritsu	ML2487A	6K00003613	2016-08-22	2017-08-21
Power sensor	Anritsu	MA2491A	32263	2016-08-22	2017-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2016-08-23	2017-08-21
LISN	AFJ	LS16C	10010947251	2016-08-22	2017-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2016-08-23	2017-08-22
9*6*6 Anechoic	--	--	N/A	2016-08-24	2017-08-23
EMI Test Receiver	RS	ESCS30	100139	2016-08-22	2017-08-21
RF Cable	SCHWARZBEC K	--	--	2016-08-23	2017-08-22
Pre-Amplifier	HP	8447D	2727A05017	2016-08-05	2017-08-04
Pre-Amplifier	EM	EM30265	--	2016-08-05	2017-08-04

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.407	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart E Paragraph 15.407 (b1/4/5/6/7), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	PASS	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Transmit Power	PASS	Complies
FCC Part 15, Paragraph 15.407 (a)(6)	Peak Power Excursion	PASS	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Power Spectral Density	PASS	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247, ANSI C63.10 :2013 and ANSI C63.4 :2014 789033 D02 General UNII Test Procedures New Rules v01r04

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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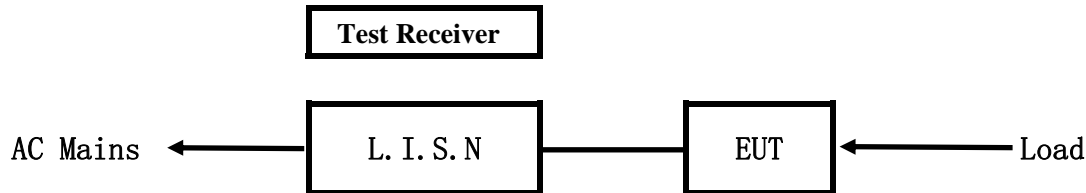
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test



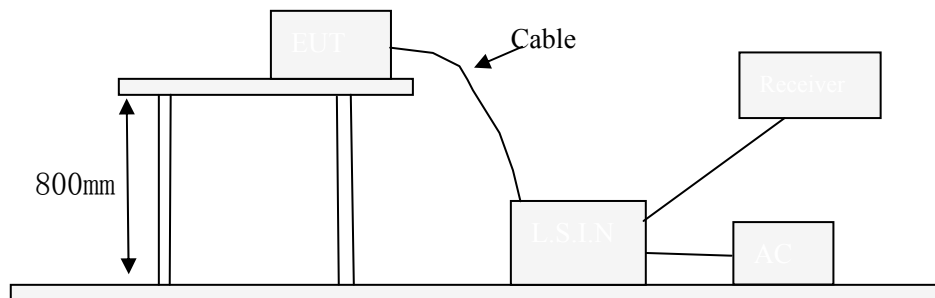
EUT: Equipment Under Test

### 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
Advertising Displayer	GLORY STAR TECHNICS (SHENZHEN) CO., LTD.	JAR215-01	2AACS-JAR215-01

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	LIANYUNDA	LYD1205000UA	100-240V, 50/60Hz, 1.6A; Output: 12V, 5A

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 and 15.107

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	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**

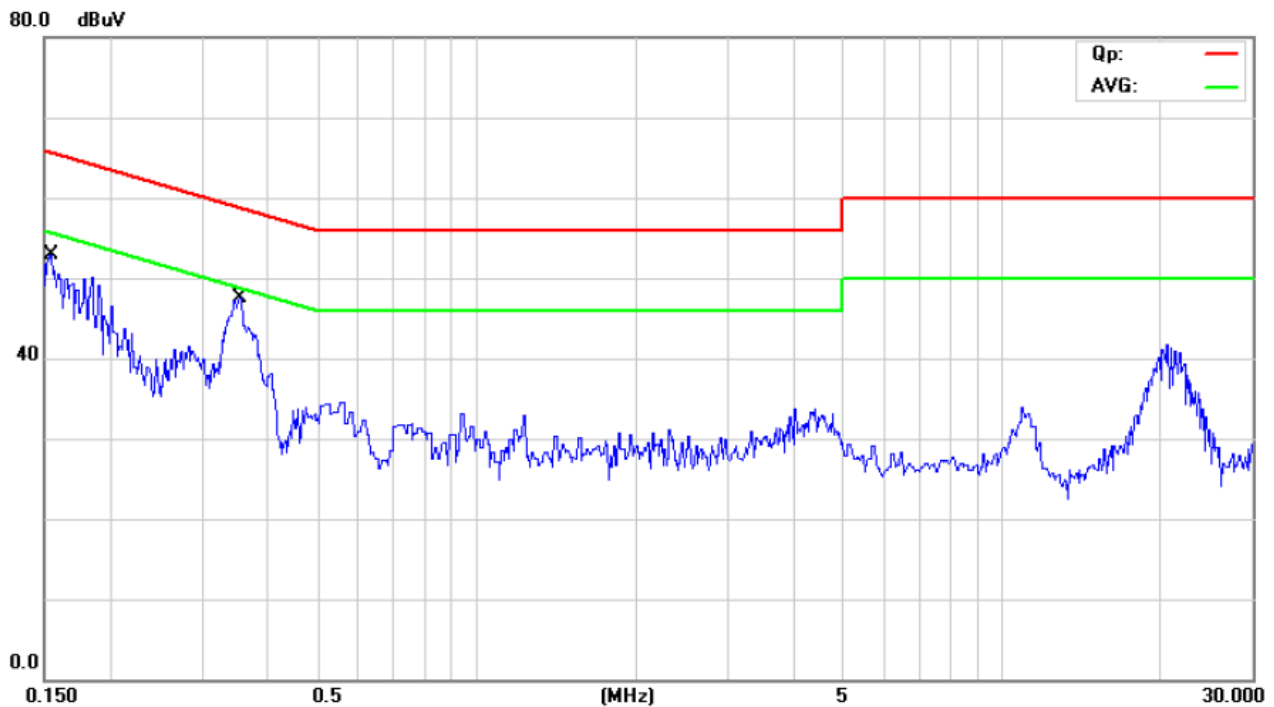
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keeping WIFI Transmitting**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1541	38.50	9.85	48.35	65.78	-17.43	QP	
2		0.1541	17.50	9.85	27.35	55.78	-28.43	AVG	
3	*	0.3493	34.30	10.09	44.39	58.98	-14.59	QP	
4		0.3493	21.00	10.09	31.09	48.98	-17.89	AVG	

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

**EUT Operating Environment**

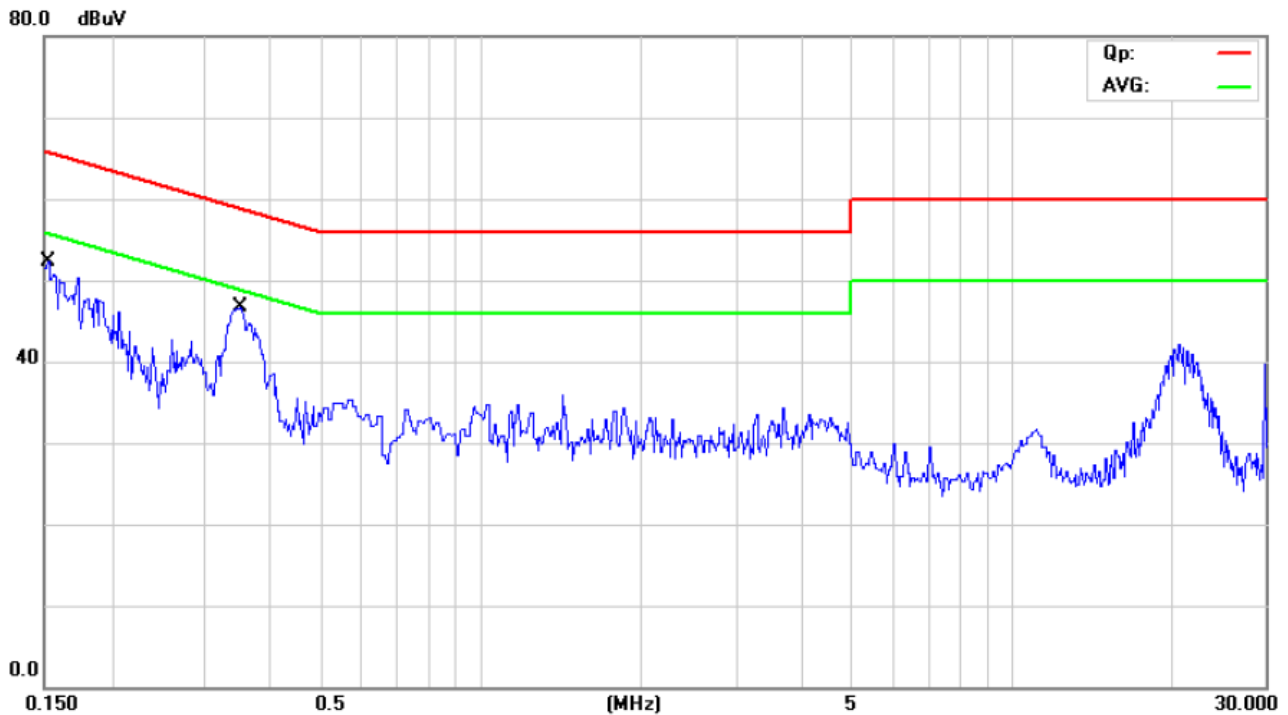
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keeping WIFI Transmitting**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1524	38.50	9.84	48.34	65.87	-17.53	QP	
2		0.1524	16.70	9.84	26.54	55.87	-29.33	AVG	
3		0.3492	31.40	10.09	41.49	58.98	-17.49	QP	
4	*	0.3492	21.80	10.09	31.89	48.98	-17.09	AVG	

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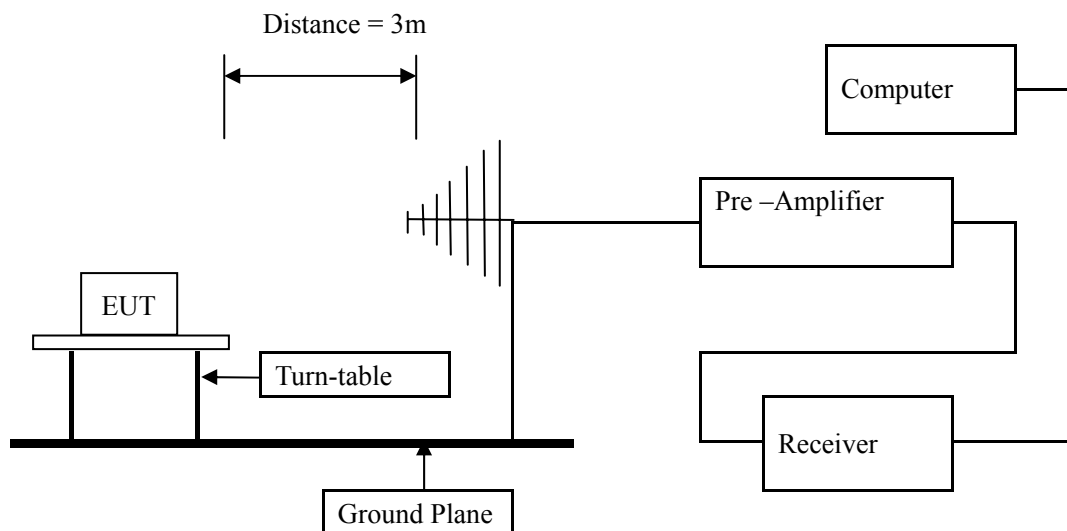


## 6 Undesirable Emission and Restrict band

### 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 Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (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 40 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. 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



- 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.

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#### 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:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109**

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

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz
- (2) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz.

- 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

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**Test result**

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

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

**EUT set Condition: Keeping WIFI Transmitting**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
482.16	41.18	H	46.00
625.04	43.96	H	46.00
770.96	41.42	H	46.00
648.08	41.34	H	46.00
648.08	40.46	V	46.00
432.16	43.62	V	46.00
720.08	42.84	V	46.00
864.08	42.32	V	46.00

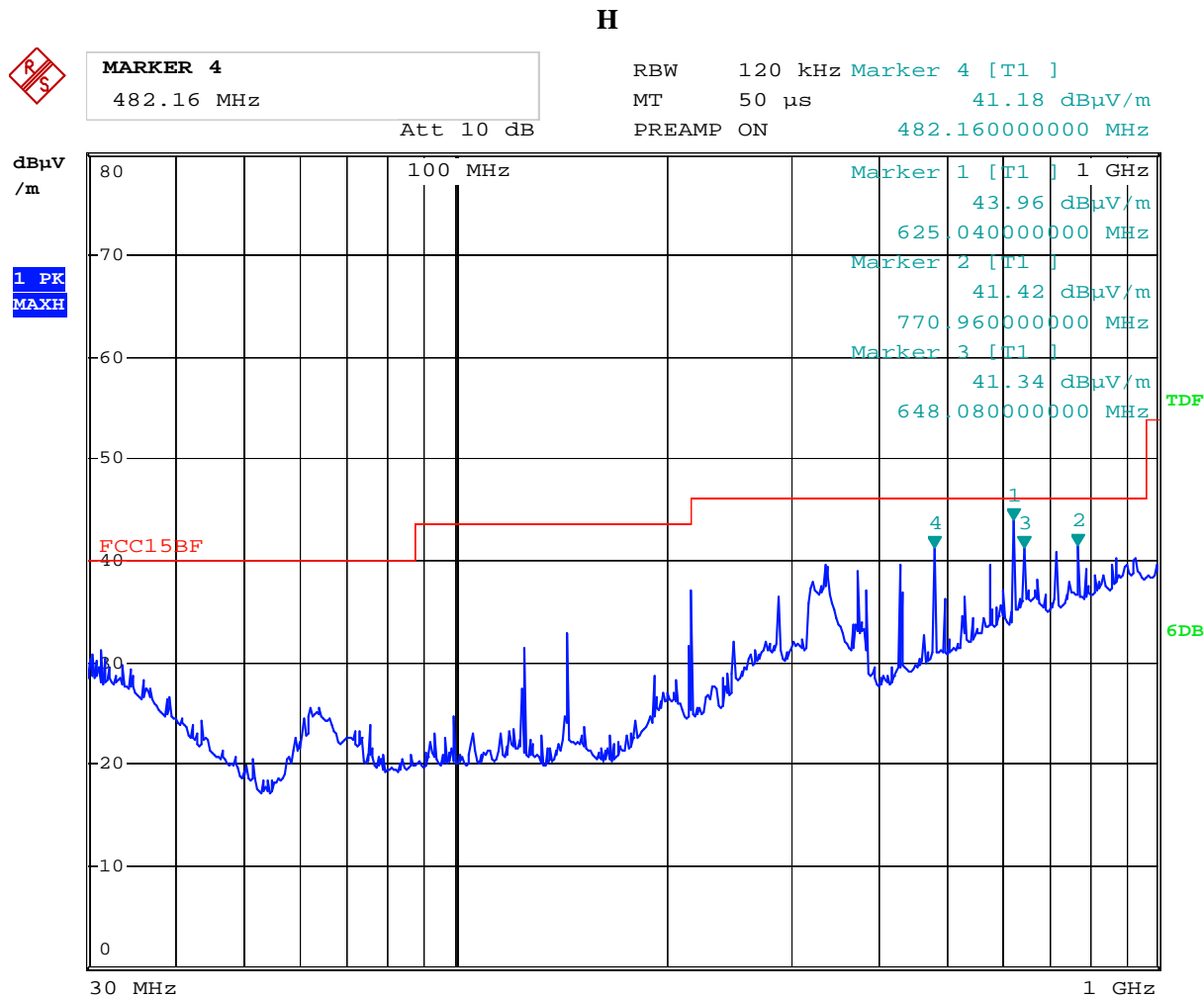
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Test Figure:



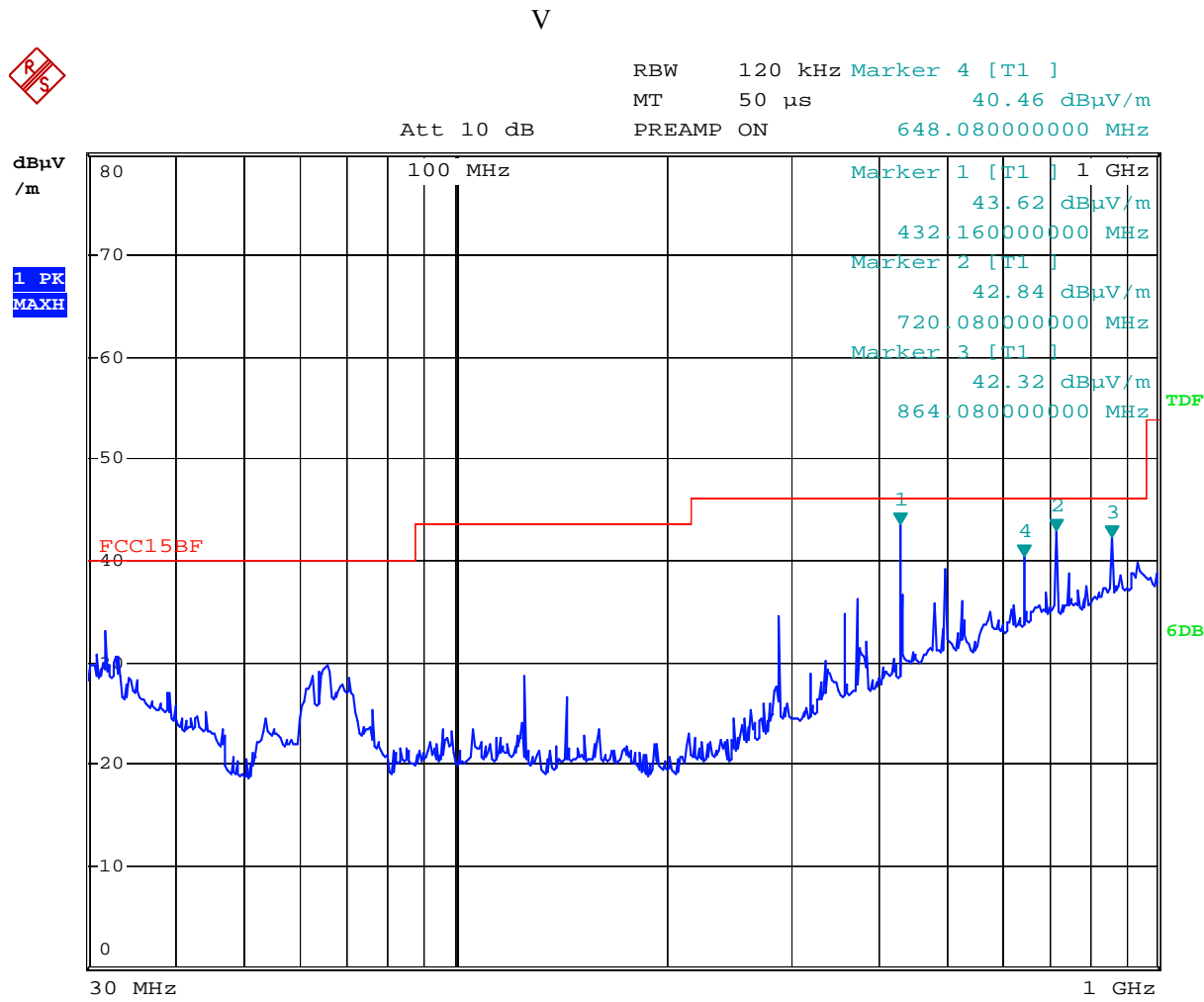
Date: 20.APR.2017 10:01:04

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Test Figure:



Date: 20.APR.2017 09:58:34

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**Operation Mode: Keeping Transmitting under CH36 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
5180.00	95.52 (PK)	H	Fundamental Frequency
5180.00	95.01 (PK)	V	
10360	51.50	H	74(Peak)/ 54(AV)
15540	51.00	V	74(Peak)/ 54(AV)
20720	--	H/V	74(Peak)/ 54(AV)
25900	--	H/V	74(Peak)/ 54(AV)
31080	--	H/V	74(Peak)/ 54(AV)
36260	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

**Operation Mode: Keeping Transmitting under CH40 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
5200.00	96.02 (PK)	H	Fundamental Frequency
5200.00	96.51 (PK)	V	
10400	51.58	H	74(Peak)/ 54(AV)
15600	51.63	V	74(Peak)/ 54(AV)
20800	--	H/V	74(Peak)/ 54(AV)
26000	--	H/V	74(Peak)/ 54(AV)
31200	--	H/V	74(Peak)/ 54(AV)
36400	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

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**Operation Mode: Keeping Transmitting under CH48 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5240.00	94.27 (PK)	H	Fundamental Frequency
5240.00	94.22 (PK)	V	
10480	49.36	H	74(Peak)/ 54(AV)
15720	49.48	V	74(Peak)/ 54(AV)
20960	--	H/V	74(Peak)/ 54(AV)
26200	--	H/V	74(Peak)/ 54(AV)
31440	--	H/V	74(Peak)/ 54(AV)
36680	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark “---” means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

**Operation Mode: Keeping Transmitting under CH149 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5745.00	95.39 (PK)	H	Fundamental Frequency
5745.00	95.89 (PK)	V	
11490	51.16	H	74(Peak)/ 54(AV)
17235	51.29	V	74(Peak)/ 54(AV)
22980	--	H/V	74(Peak)/ 54(AV)
28725	--	H/V	74(Peak)/ 54(AV)
34470	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark “---” means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

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**Operation Mode: Keeping Transmitting under CH153 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5765.00	94.40 (PK)	H	Fundamental Frequency
5765.00	94.19 (PK)	V	
11530	50.20	H	74(Peak)/ 54(AV)
17295	50.11	V	74(Peak)/ 54(AV)
23060	--	H/V	74(Peak)/ 54(AV)
28825	--	H/V	74(Peak)/ 54(AV)
34590	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

**Operation Mode: Keeping Transmitting under CH161 for 802.11a at 6Mbps**

Frequency (MHz)	PK Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5805.00	96.31 (PK)	H	Fundamental Frequency
5805.00	96.23 (PK)	V	
11610	52.41	H	74(Peak)/ 54(AV)
17415	52.33	V	74(Peak)/ 54(AV)
23220	--	H/V	74(Peak)/ 54(AV)
29025	--	H/V	74(Peak)/ 54(AV)
34830	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured  
3. For 802.11a mode 6Mbps

Remark. 802.11a/11nH20/11nH40/11ac VHT80 all have been tested ,only 802.11a is the worst case

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

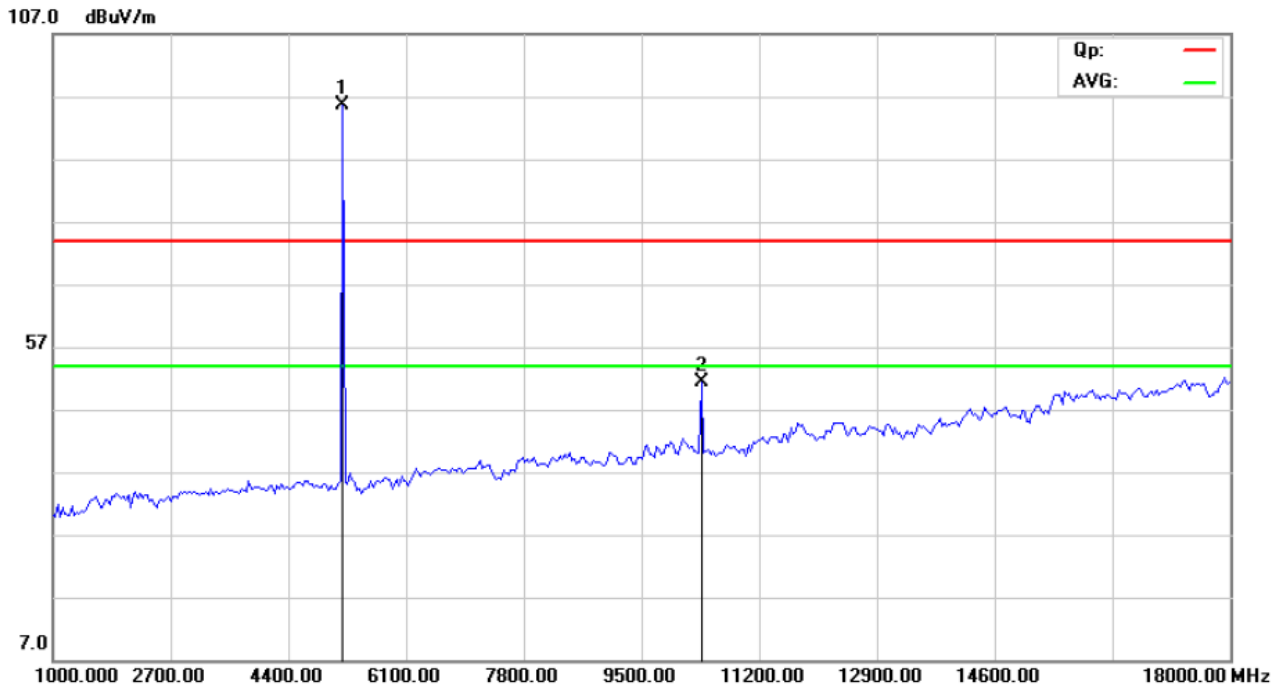
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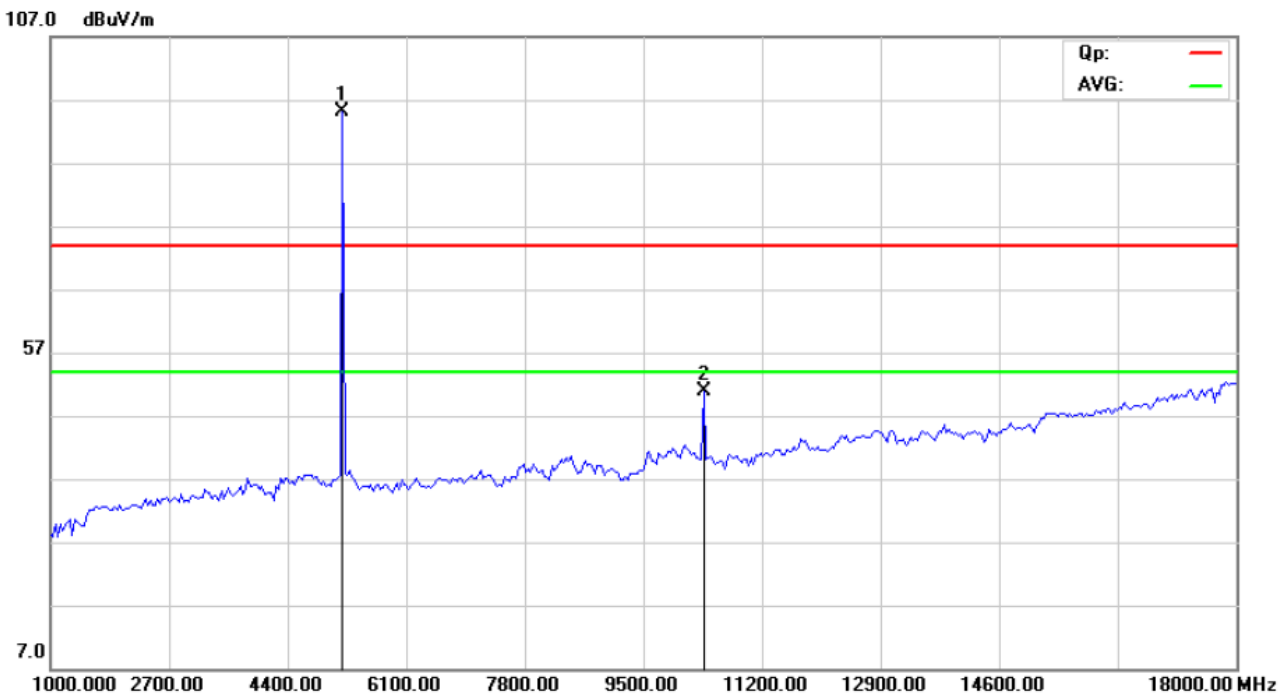


Please refer to the following test plots for details:

### CH36 for 11a at 6Mbps: Horizontal



### CH36 for 11a at 6Mbps: Vertical



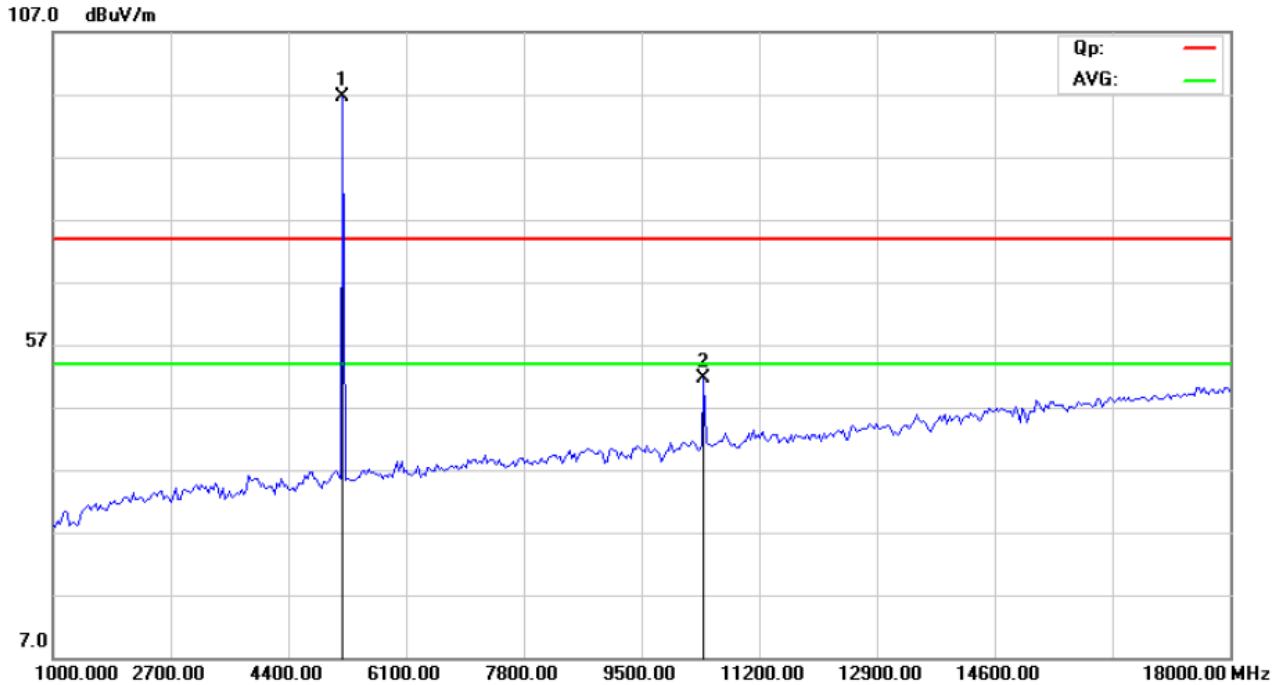
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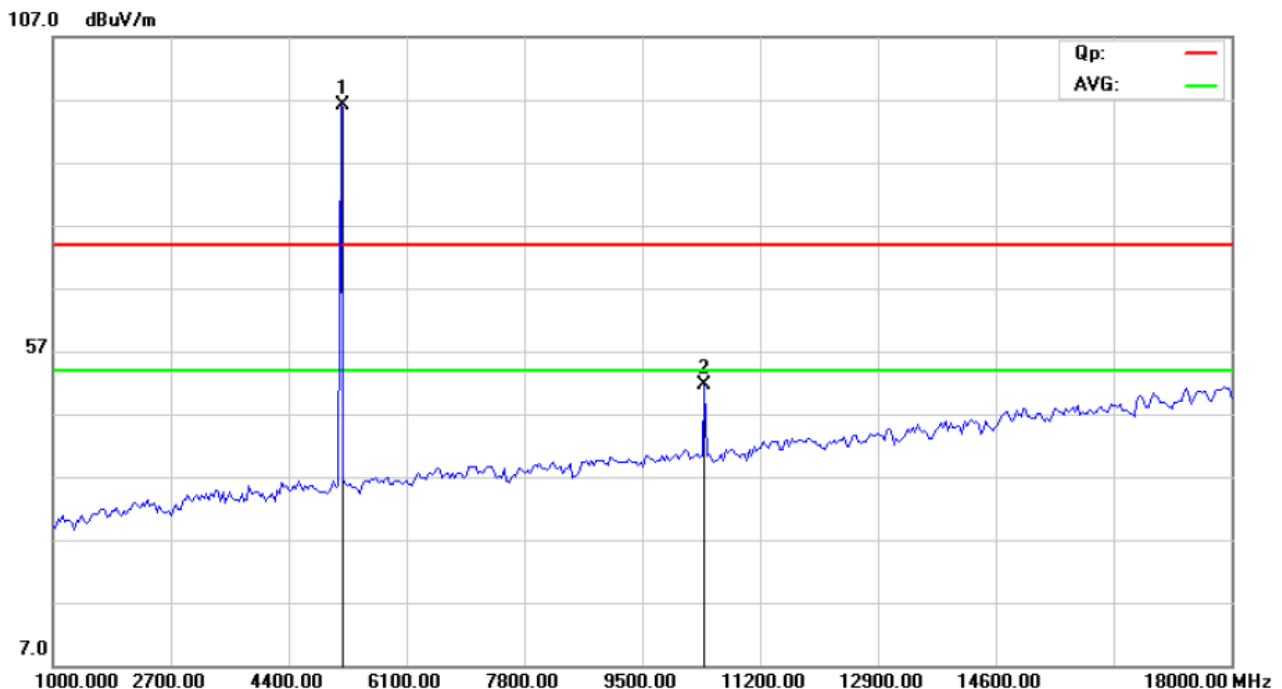
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### CH40 for 11a at 6Mbps: Vertical



### CH40 for 11a at 6Mbps: Horizontal



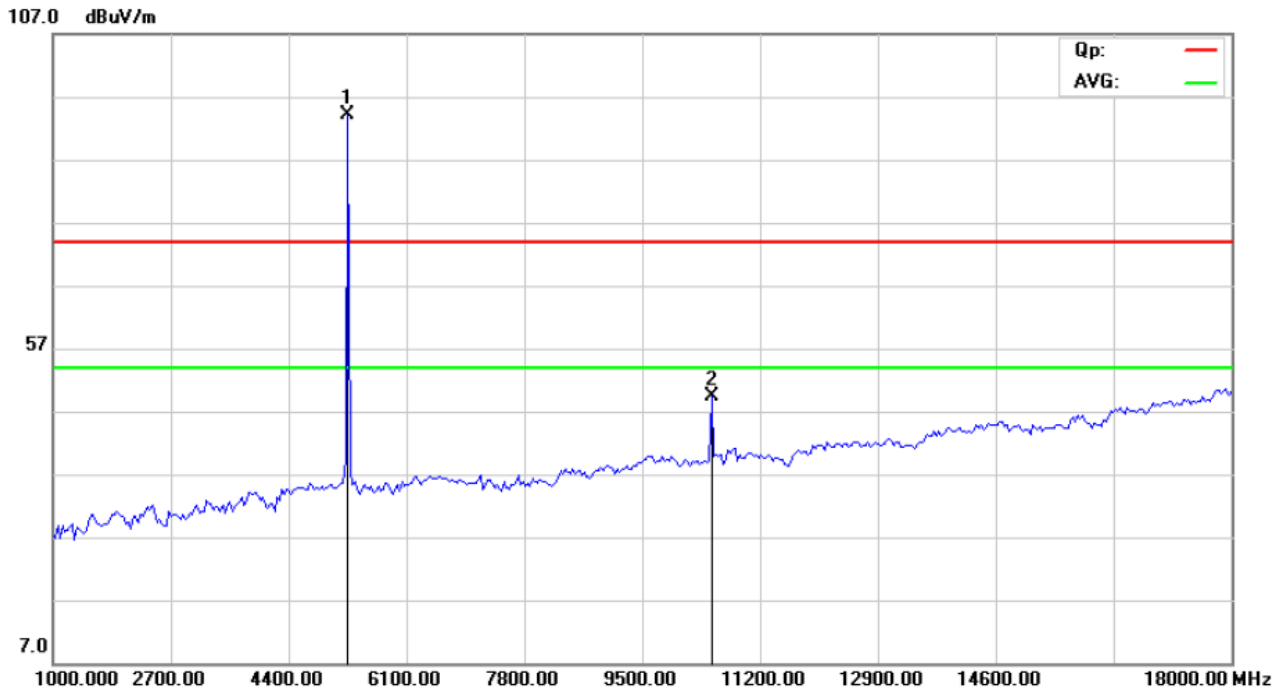
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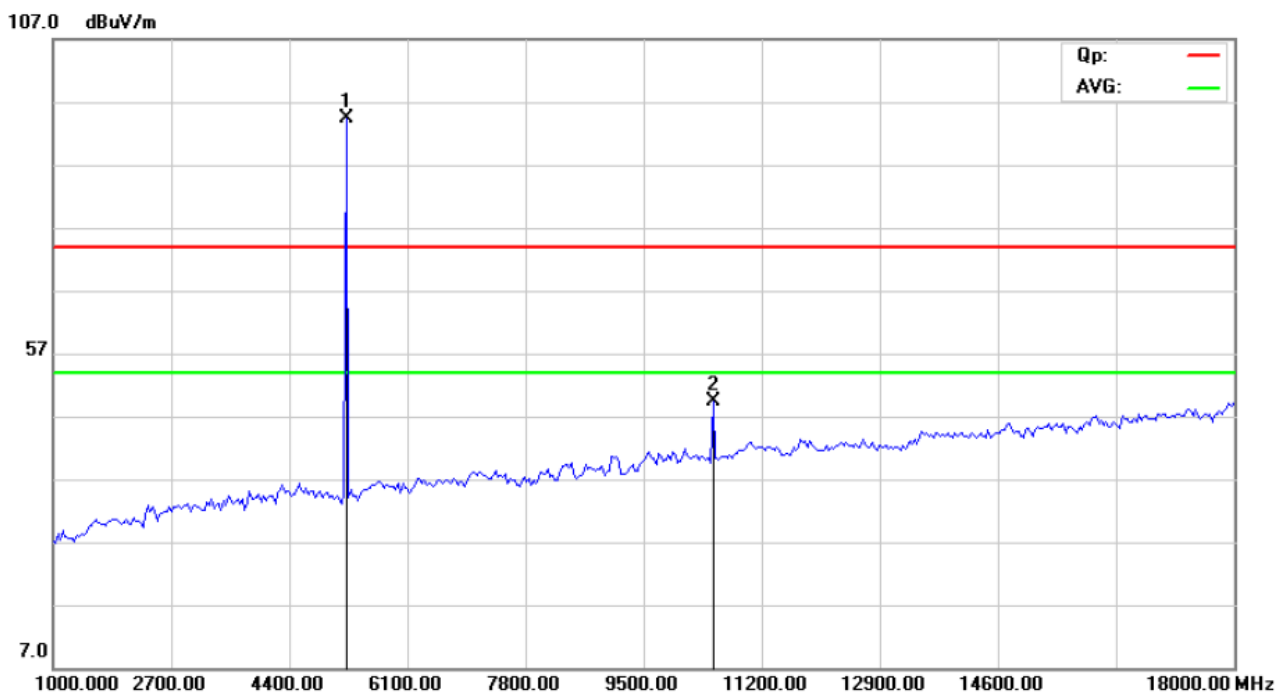
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### CH48 for 11a at 6Mbps: Vertical



### CH48 for 11g at 6Mbps: Horizontal



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

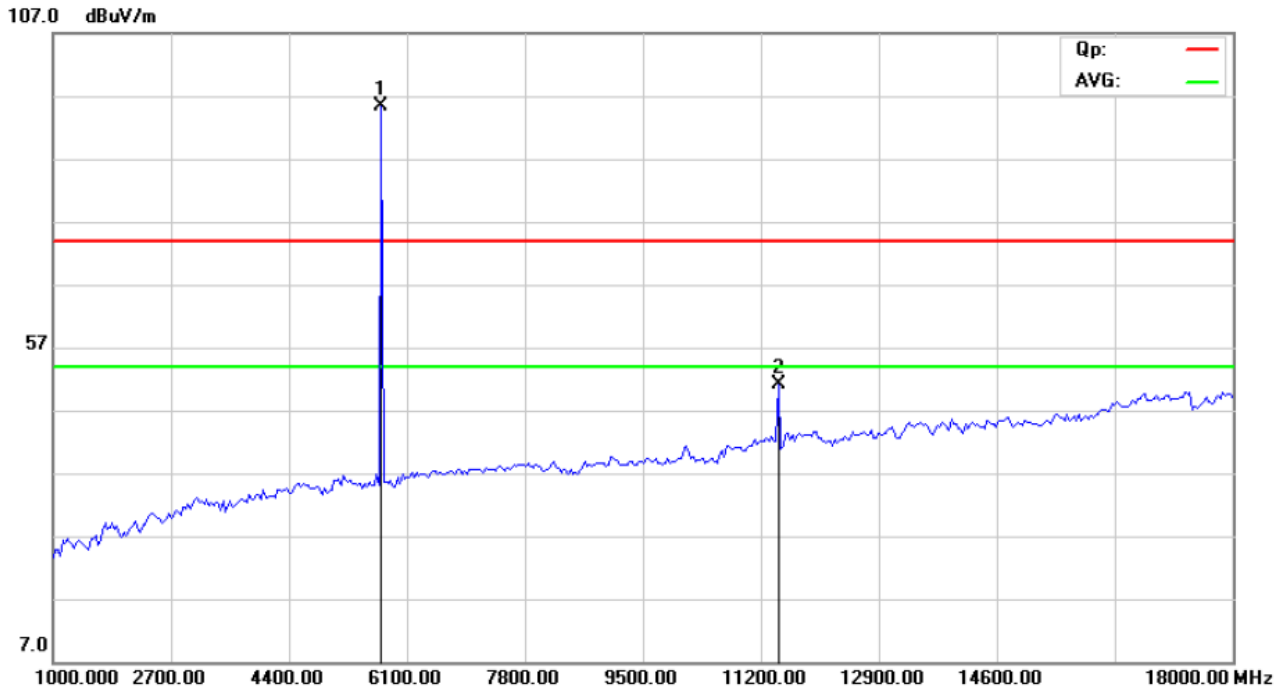
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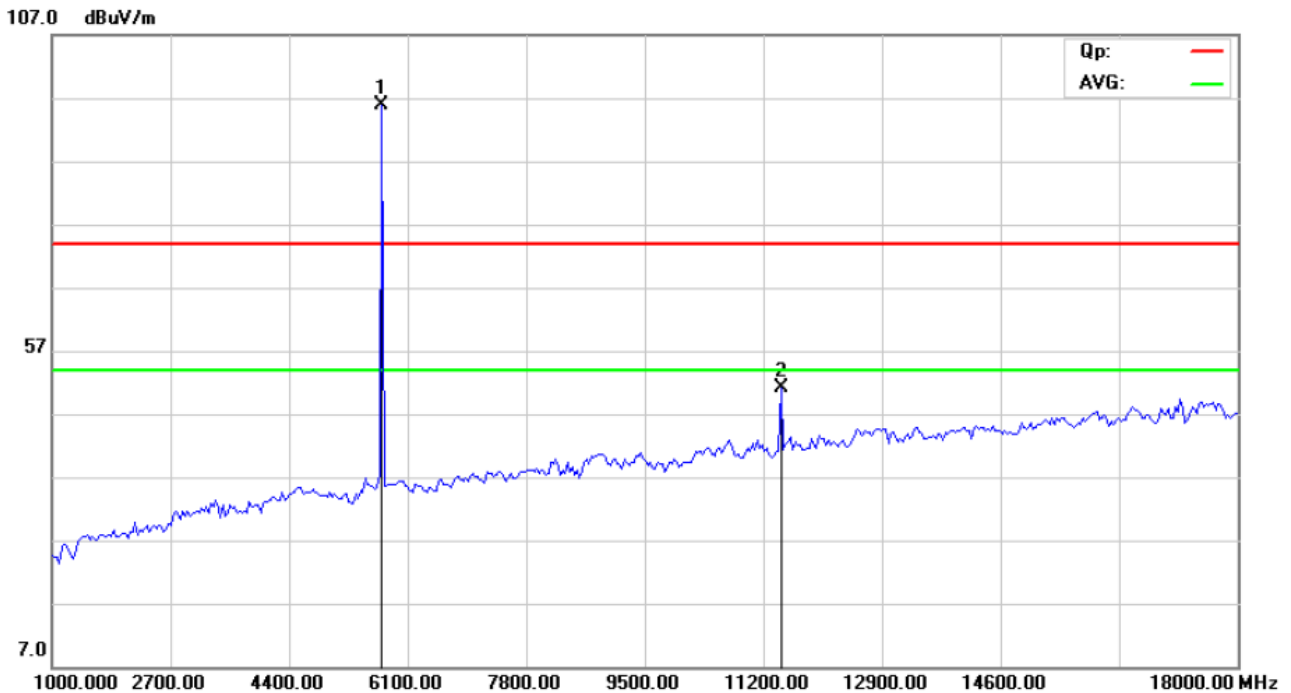


Please refer to the following test plots for details:

**CH149 for 11a at 6Mbps: Horizontal**



**CH149 for 11a at 6Mbps: Vertical**



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

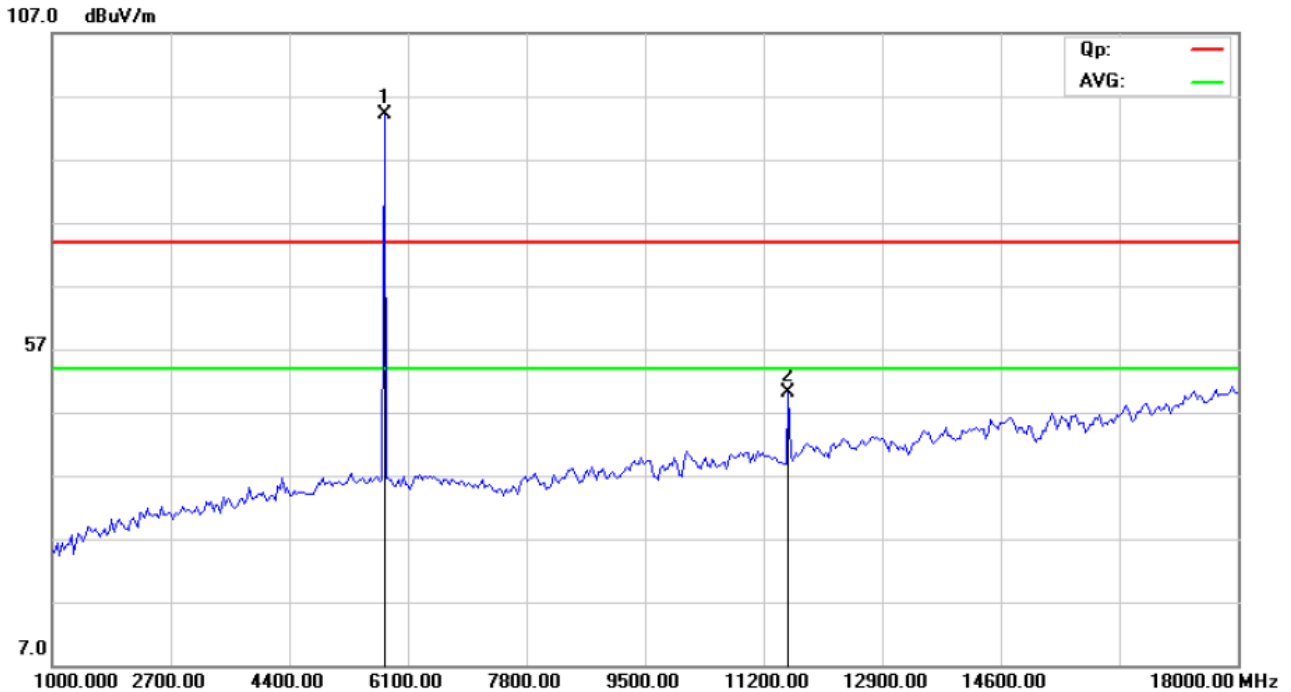
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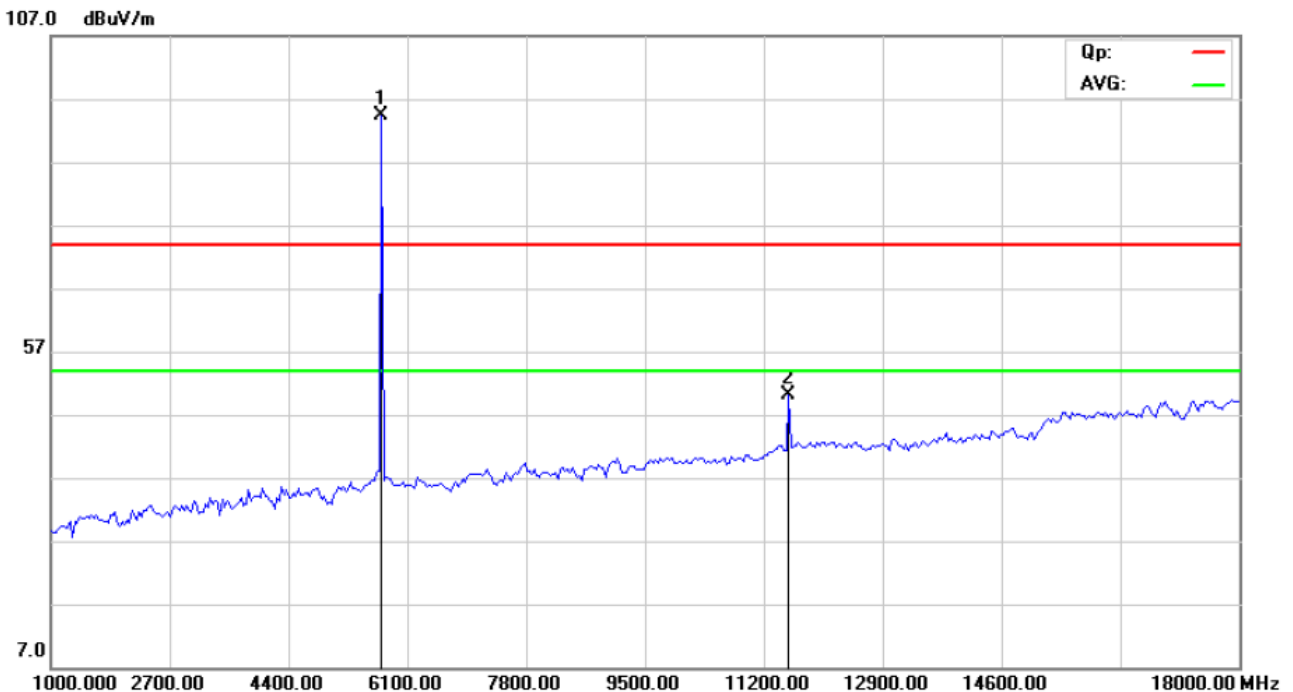




### CH153 for 11a at 6Mbps: Vertical



### CH153 for 11a at 6Mbps: Horizontal



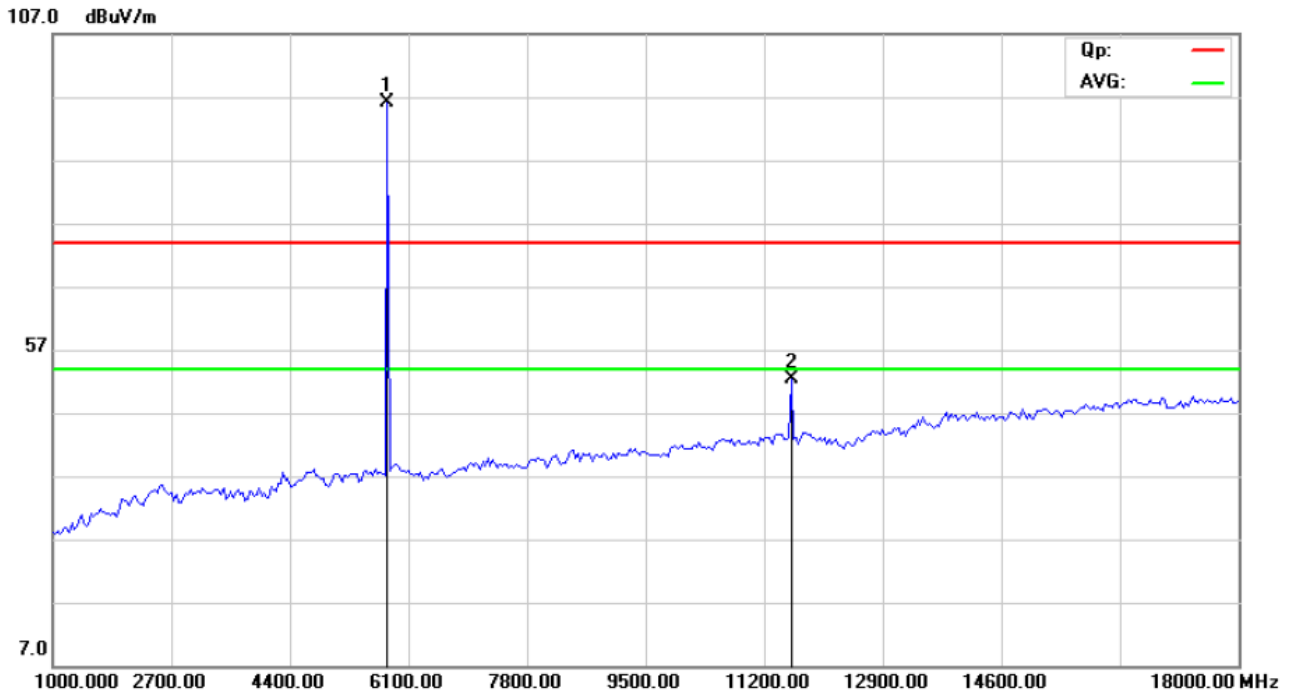
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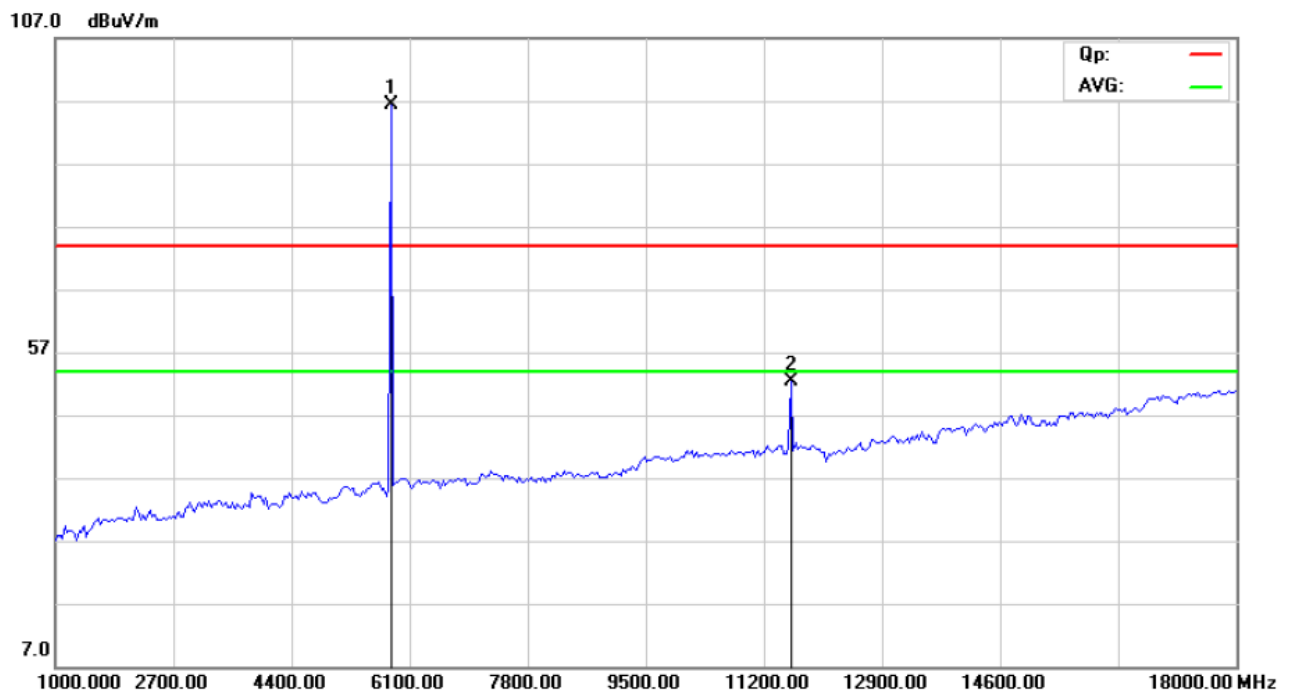
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### CH161 for 11a at 6Mbps: Vertical



### CH161 for 11a at 6Mbps: Horizontal



Note: 1. For radiated Emissions from 18-40GHz, it is only the floor noise.

2. 802.11a/11nH20/11nH40/11ac VHT80 all have been tested, only 802.11a is the worst case.

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	50.5 (PK)	56% RH
	EIRP (dBm)	-44.7	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 50.5 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.5 - 95.2 = -44.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	49.1 (PK)	56% RH
	EIRP (dBm)	-46.1	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 49.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.1 - 95.2 = -46.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5350	PK (dBμV/m)	49.7 (PK)	56% RH
	EIRP (dBm)	-45.5	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=49.7 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.7 - 95.2 = -45.5 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5350	PK (dBμV/m)	47.6 (PK)	56% RH
	EIRP (dBm)	-47.6	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=47.6 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.6 - 95.2 = -47.6 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	45.1 (PK)	56% RH
	EIRP (dBm)	-50.1	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=45.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.1 - 95.2 = -50.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	43.9 (PK)	56% RH
	EIRP (dBm)	-51.3	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=43.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.9 - 95.2 = -51.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 161 (5805MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	46.2 (PK)	56% RH
	EIRP (dBm)	-49.0	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=46.2 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.2 - 95.2 = -49.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode:
Mode	Keeping Transmitting		Channel 161 (5805MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	43.9 (PK)	56% RH
	EIRP (dBm)	-51.3	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=43.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.9 - 95.2 = -51.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	50.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 50.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.1 - 95.2 = -45.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	48.5 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.7		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 48.5 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.5 - 95.2 = -46.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	49.0 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.2		
Polarity	Horizontal			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 49.0 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.0 - 95.2 = -46.2 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.1		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 46.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.1 - 95.2 = -49.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	45.3 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.9		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 45.3 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.3 - 95.2 = -49.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	43.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.0		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 43.2 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.2 - 95.2 = -52.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 161 (5805MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	44.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.5		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=44.7 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2=44.7-95.2= -50.5\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 161 (5805MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	43.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.3		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=43.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2=43.9-95.2= -51.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 46.8 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.8 - 95.2 = -48.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.3		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 44.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.9 - 95.2 = -50.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode: Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	45.5(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-49.7	
Polarity	Horizontal		

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=45.5 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2=45.5-95.2= -49.7\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode: Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	43.8 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-51.4	
Polarity	Vertical		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]}=43.8 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2=43.8-95.2= -51.4\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	43.5 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.7		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 43.5 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.5 - 95.2 = -51.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	42.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-53.1		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 42.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 42.1 - 95.2 = -53.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	43.3 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.9		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 43.3 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.3 - 95.2 = -51.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	41.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-53.5		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 41.7 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 41.7 - 95.2 = -53.5 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Advertising Displayer		Test Mode: Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	42.9 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-52.3	
Polarity	Horizontal		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 42.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 42.9 - 95.2 = -52.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

3.5150 MHz and 5350MHz all have been tested , only worse case 5150MHz is reported

Restricted band Measurement			
EUT	Advertising Displayer		Test Mode: Channel 42 (5210MHz)- 11ac/VHT80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	40.7 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-54.5	
Polarity	Vertical		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 40.7 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 40.7 - 95.2 = -54.5 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

3.5150 MHz and 5350MHz all have been tested , only worse case 5150MHz is reported

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Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 155 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	42.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.9		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 42.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 42.1 - 95.2 = -53.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

3.5725 MHz and 5850MHz all have been tested , only worse case 5850MHz is reported

Restricted band Measurement				
EUT	Advertising Displayer		Test Mode:	Channel 157 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	40.3 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-54.9		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if  $\text{E[dB}\mu\text{V/m]} = 40.3 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 40.3 - 95.2 = -54.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

3.5725 MHz and 5850MHz all have been tested , only worse case 5850MHz is reported

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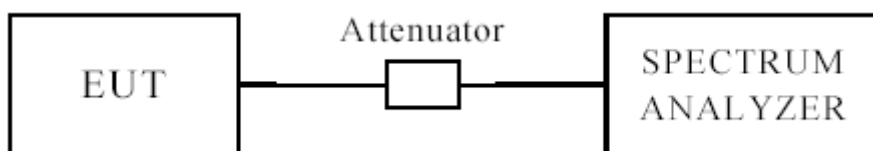
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## 7.0 Emission Bandwidth

### 7.1 Test Setup



### 7.3 Test Procedure for Emission Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW > 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 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### 7.4 Test Procedure for Minimum Bandwidth for the Band 5725-5850MHz

1. Set RBW = 100 kHz.
2. Set  $VBW \geq 3 \times RBW$ .
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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.5 Test Procedure for 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times OBW
3. Set RBW = 1% TO 5% of the OBW
4. Set  $VBW \geq 3 \times RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Other, peak detection and max mode (until trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument

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## 7.6 Test Result

EUT	Advertising Displayer		Model	JAR215-01	
Mode	802.11a		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
36	5180	6	22.24	--	Pass
40	5200	6	22.04	--	Pass
48	5240	6	22.44	--	Pass
<b>99% Bandwidth</b>					
36	5180	6	17.23	--	Pass
40	5200	6	17.23	--	Pass
48	5240	6	17.15	--	Pass

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## 26dB Bandwidth

Channel 36



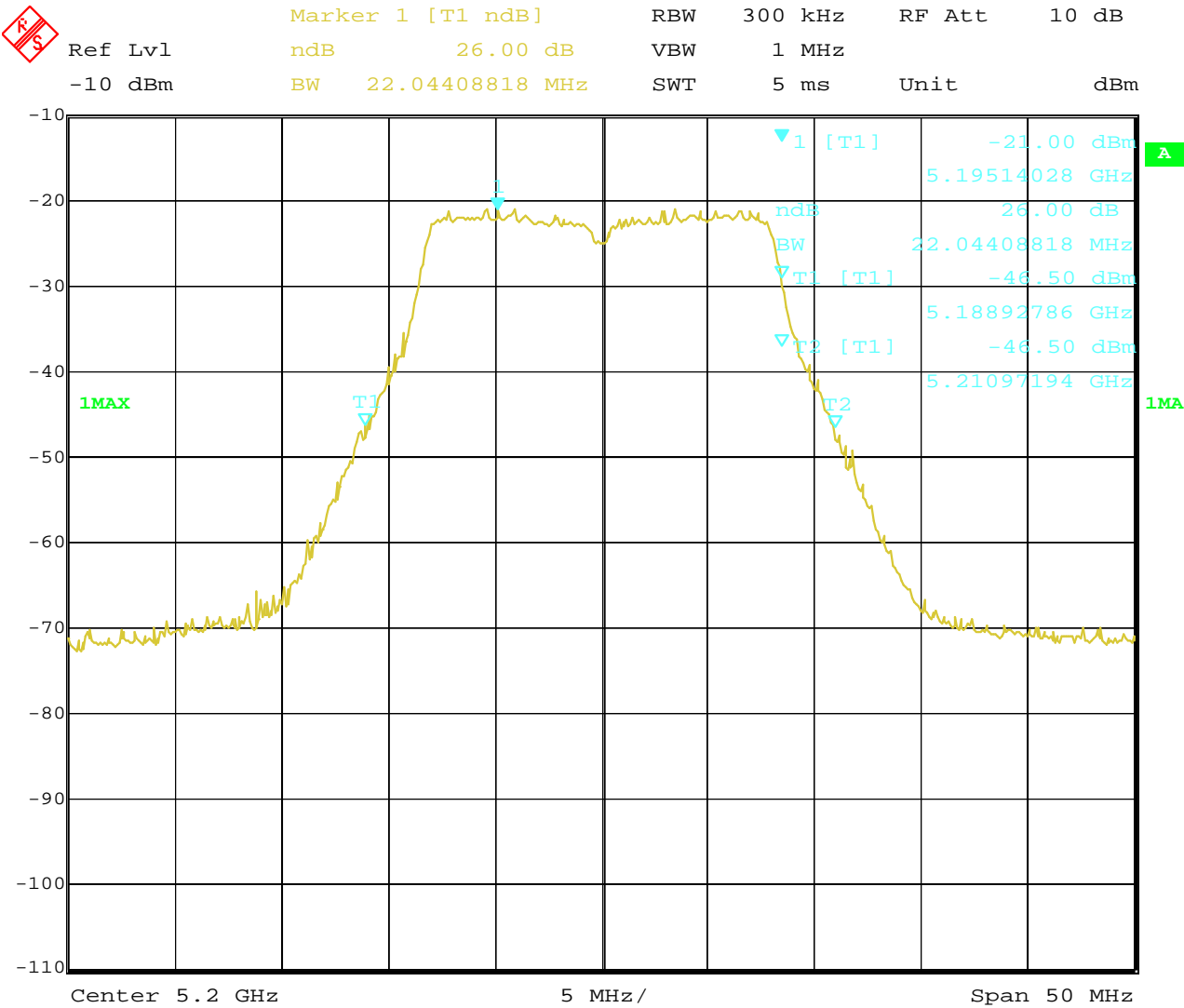
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Channel 40

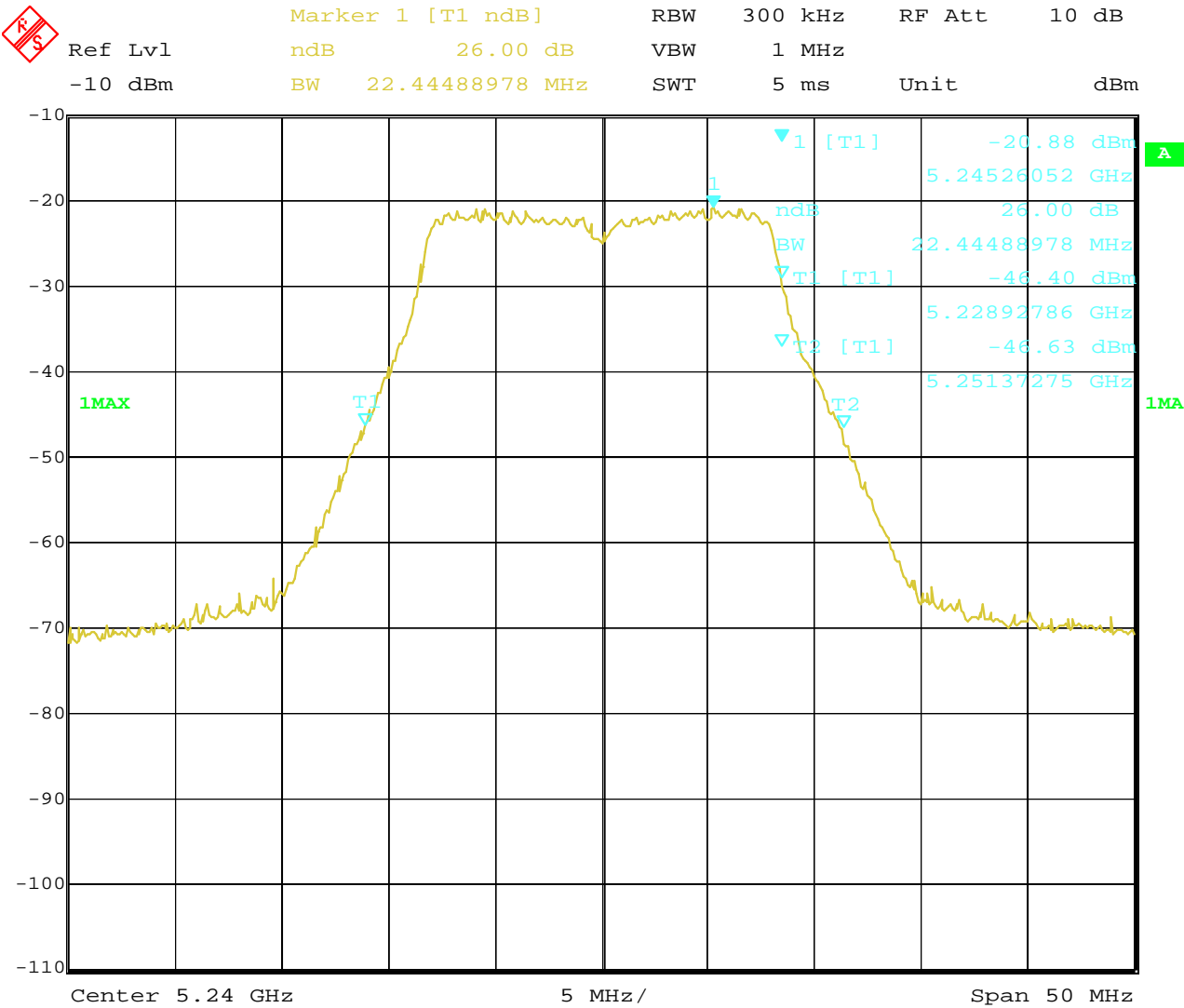


Date: 22.MAY.2017 12:07:48

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Channel 48



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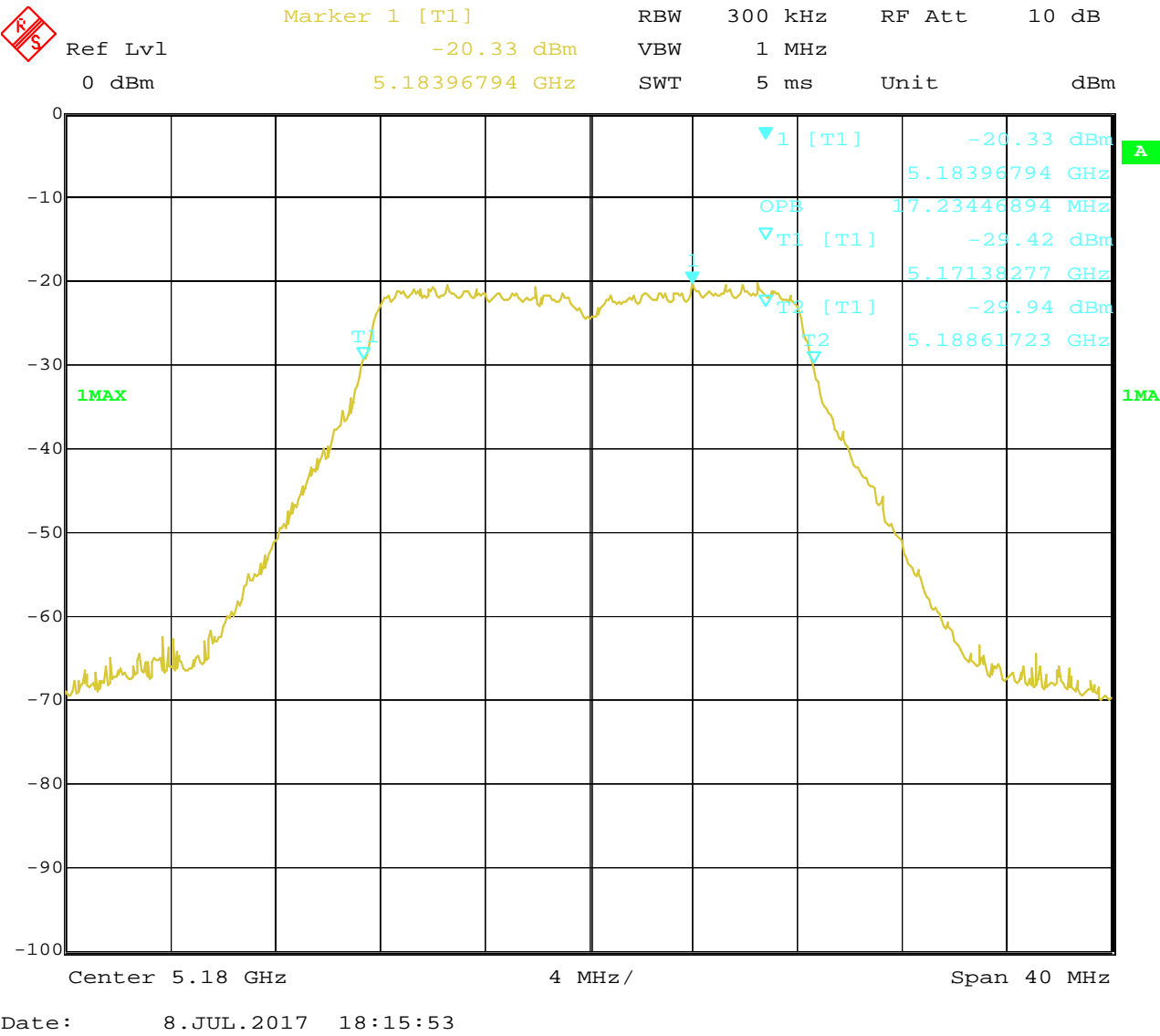
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Test Figure:

99% Bandwidth

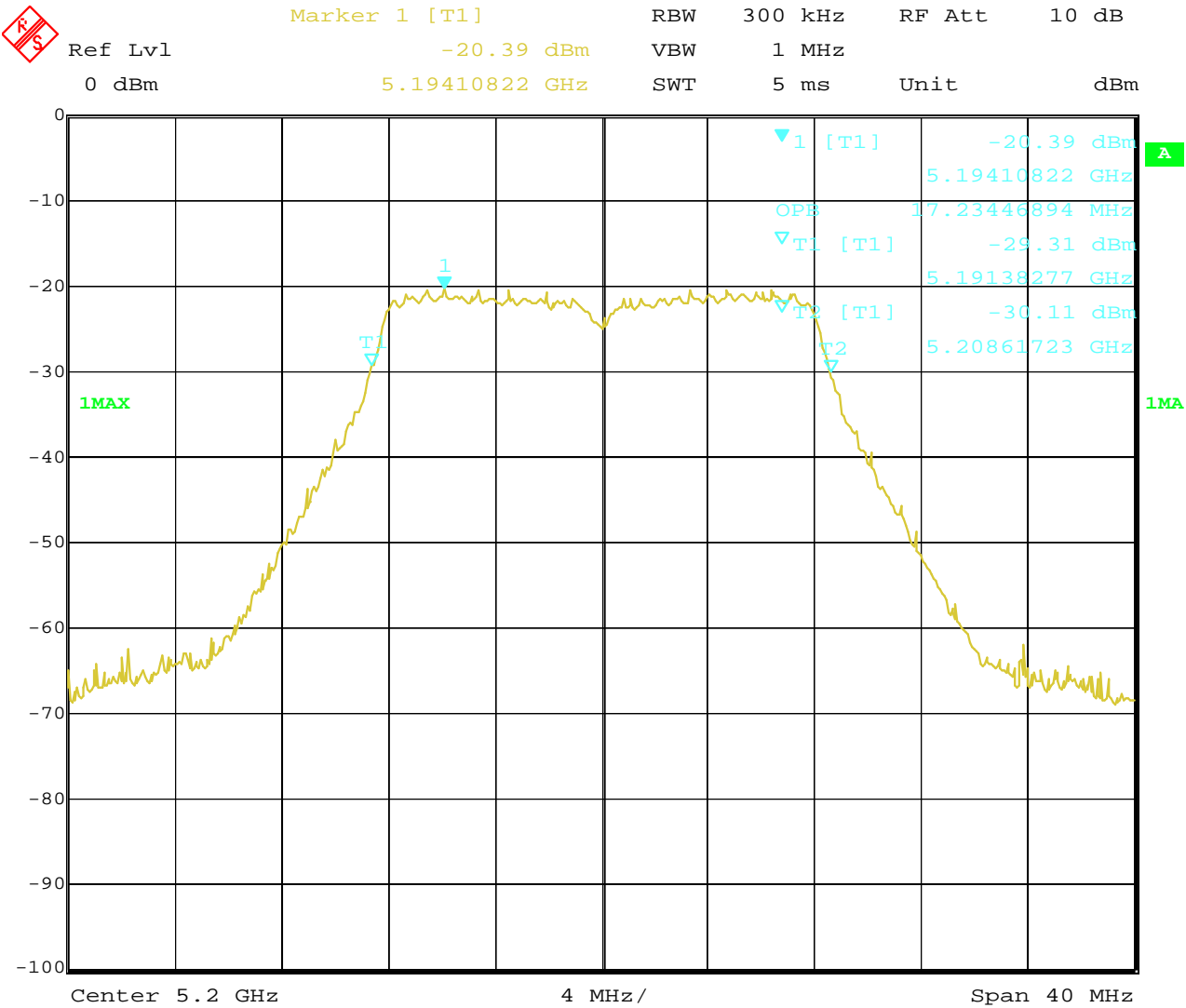
Channel 36



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Channel 40

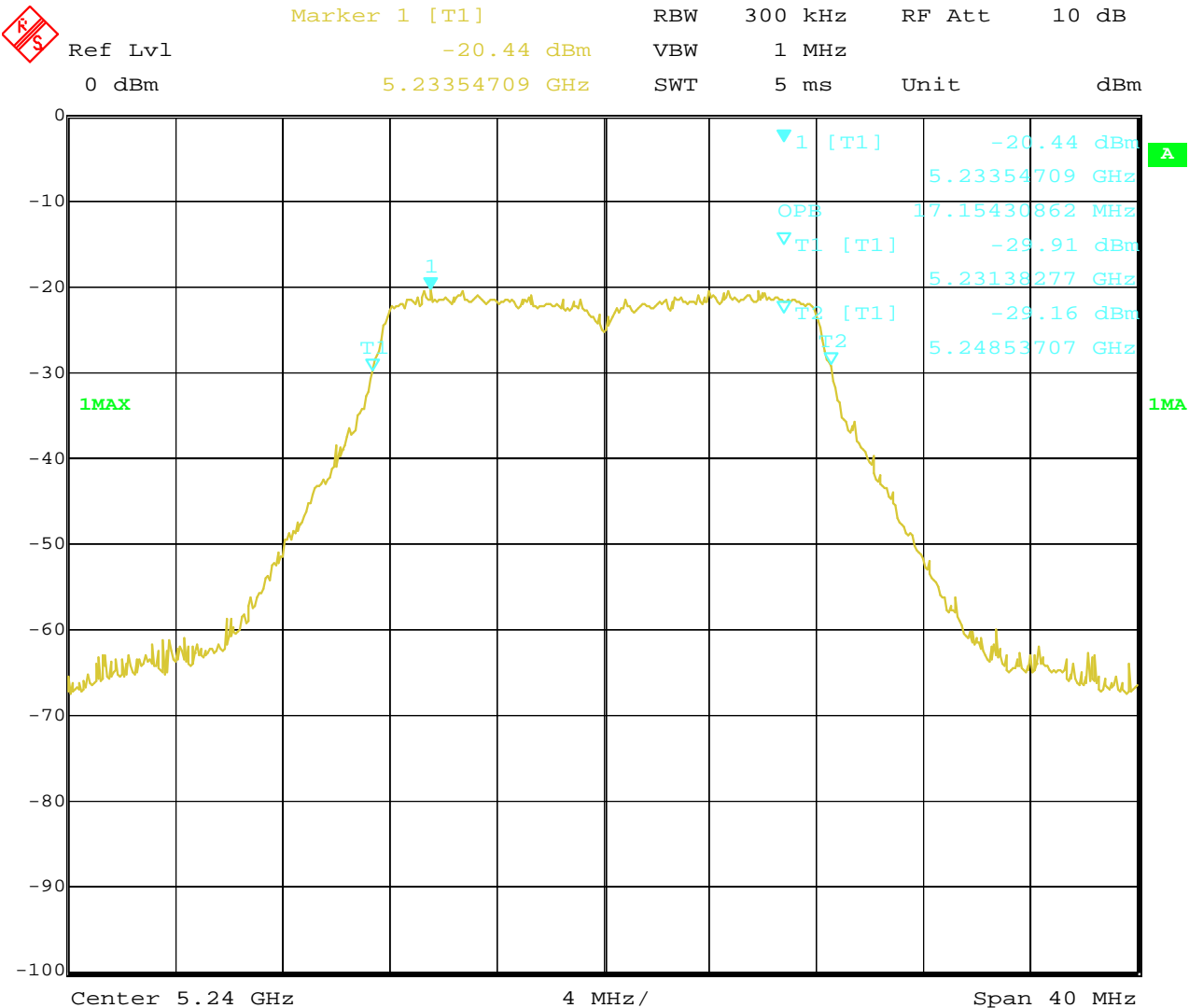


Date: 8.JUL.2017 18:21:32

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Channel 48



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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11a		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
149	5745	6	23.41	--	Pass
153	5765	6	26.53	--	Pass
161	5805	6	25.41	--	Pass
<b>6dB Bandwidth</b>					
149	5745	6	16.31	0.5	Pass
153	5765	6	16.35	0.5	Pass
161	5805	6	16.35	0.5	Pass
<b>99% Bandwidth</b>					
149	5745	6	17.39	--	Pass
153	5765	6	17.39	--	Pass
161	5805	6	17.39	--	Pass

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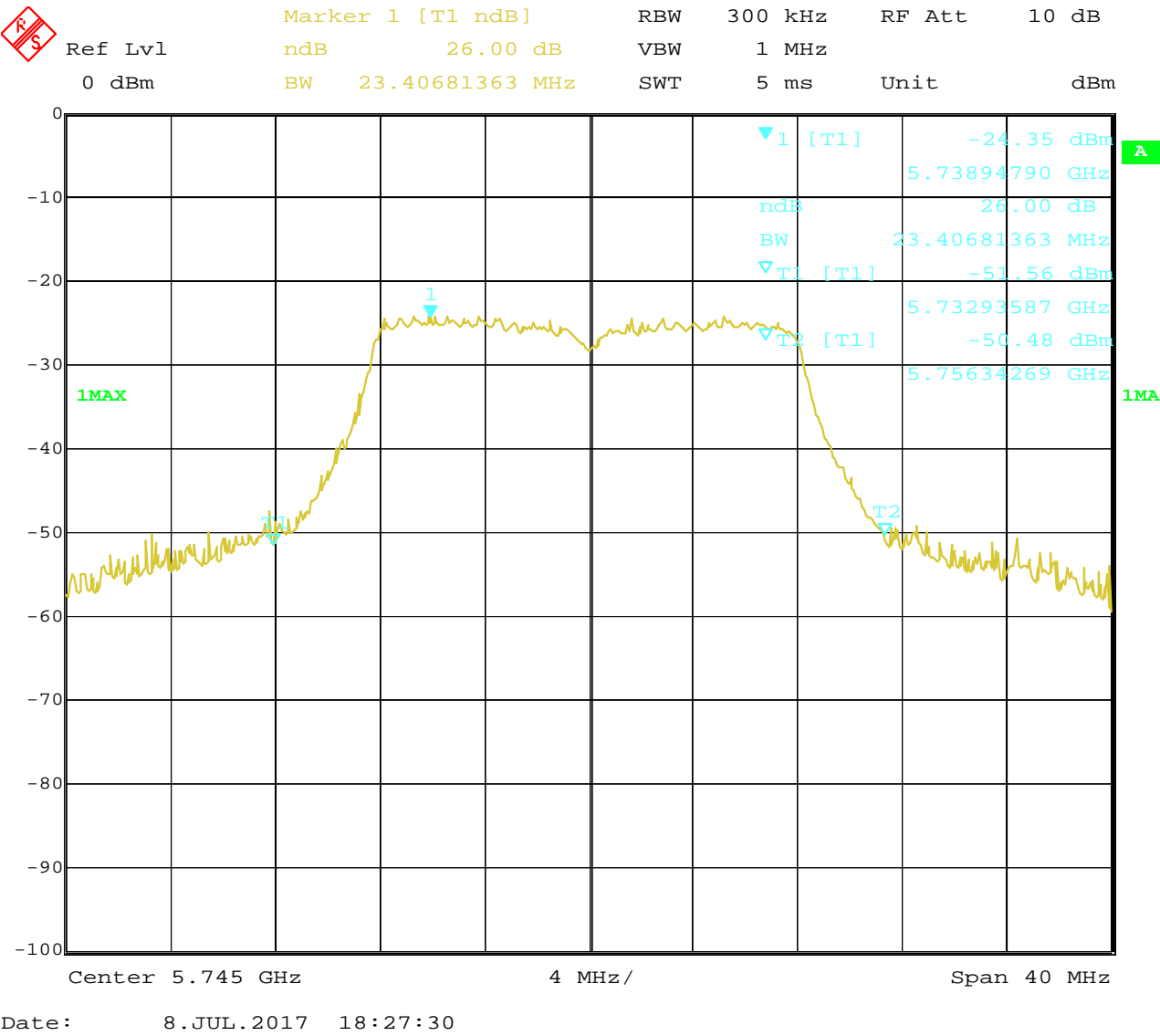
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Test Figure:

26dB Bandwidth

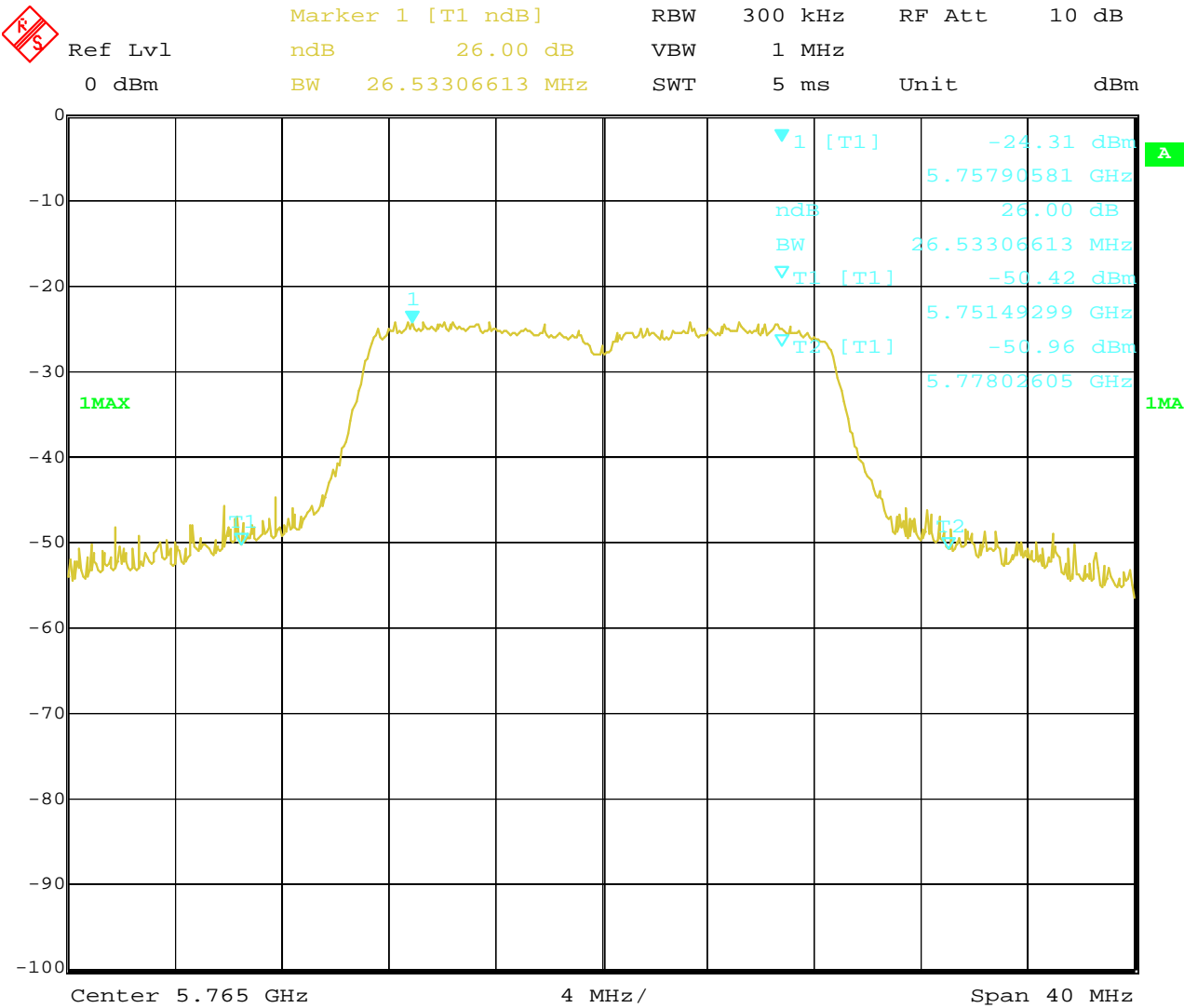
Channel 149



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Channel 153

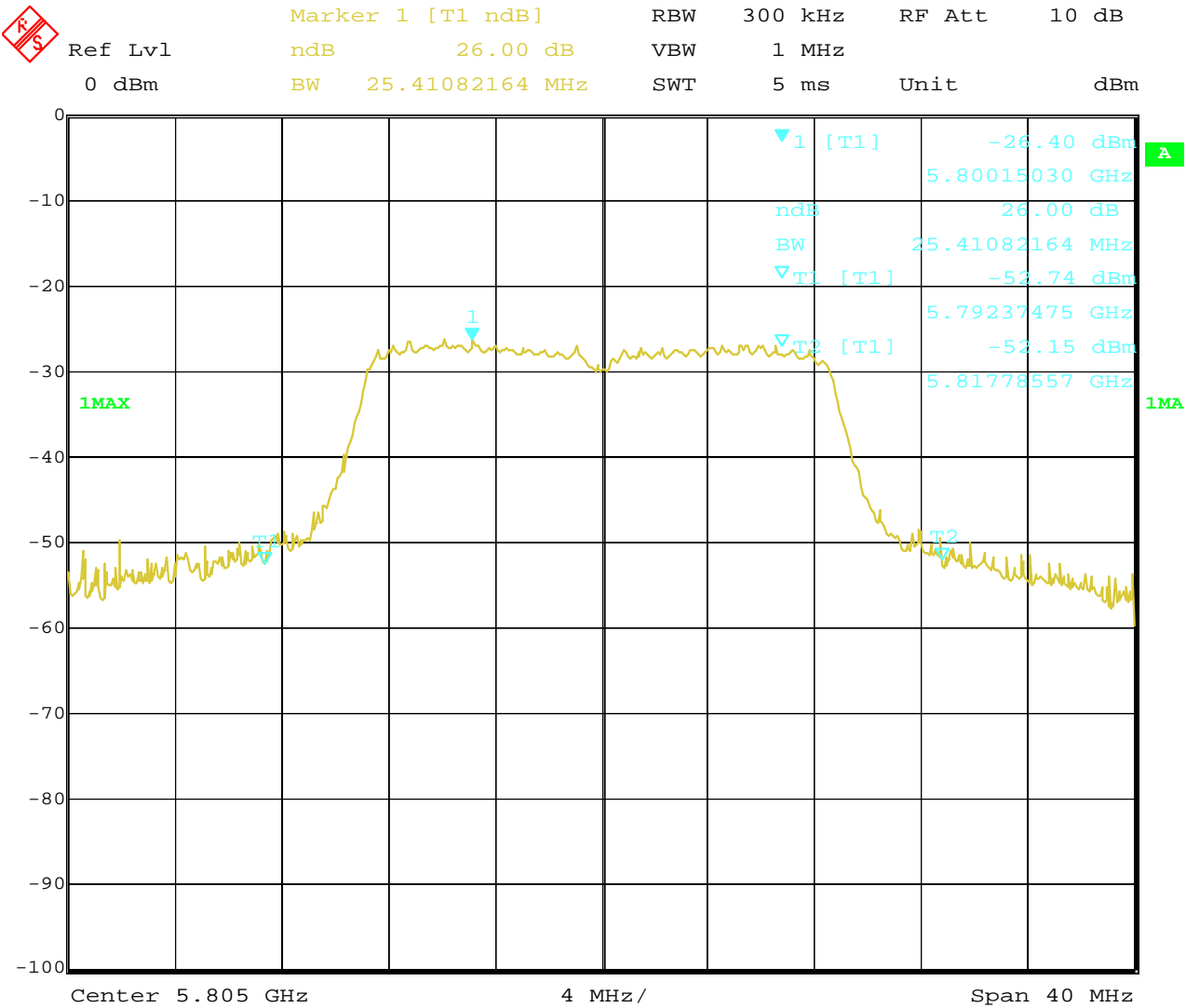


Date: 8.JUL.2017 18:36:01

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Channel 161

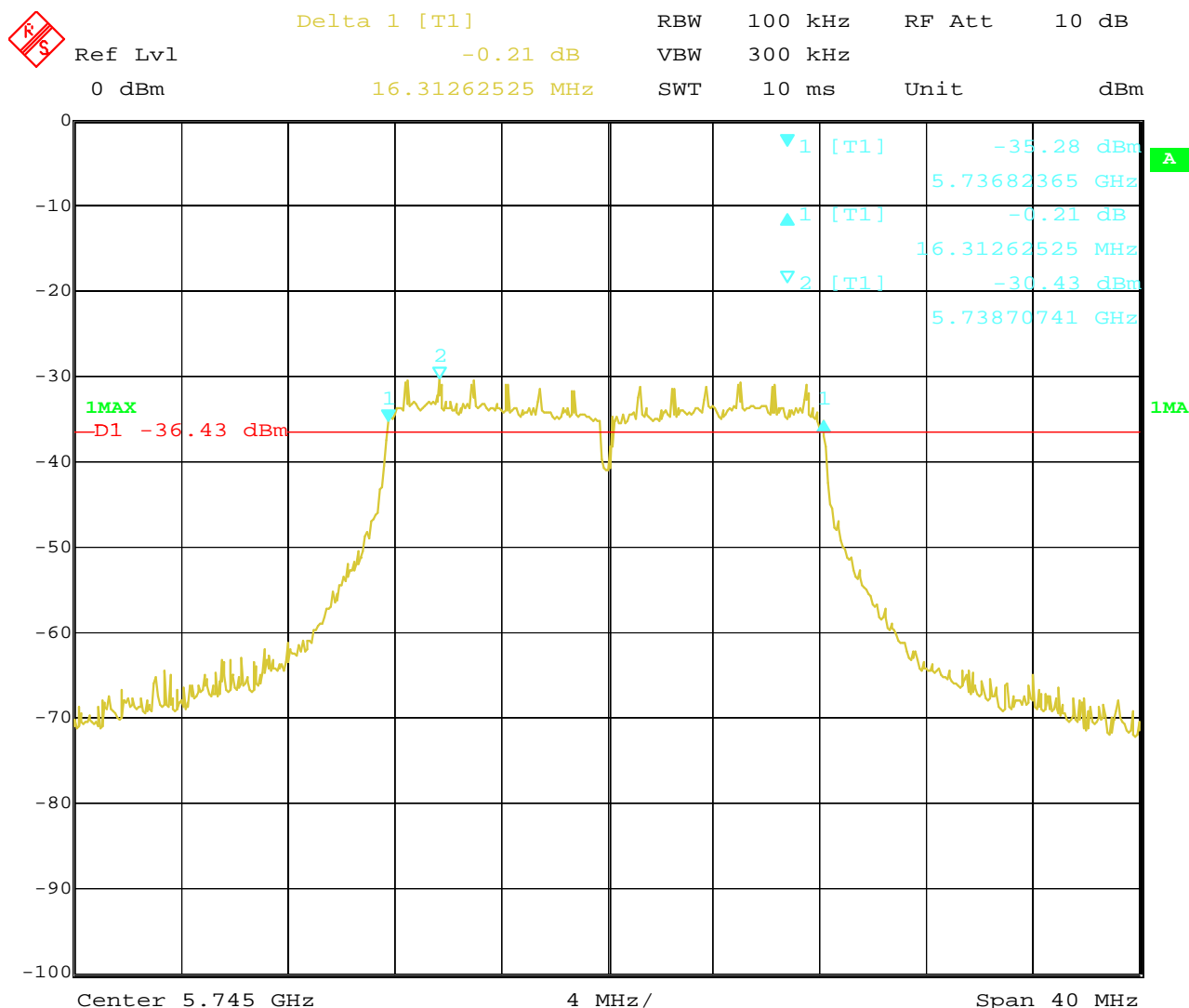


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## 6dB Bandwidth

Channel 149

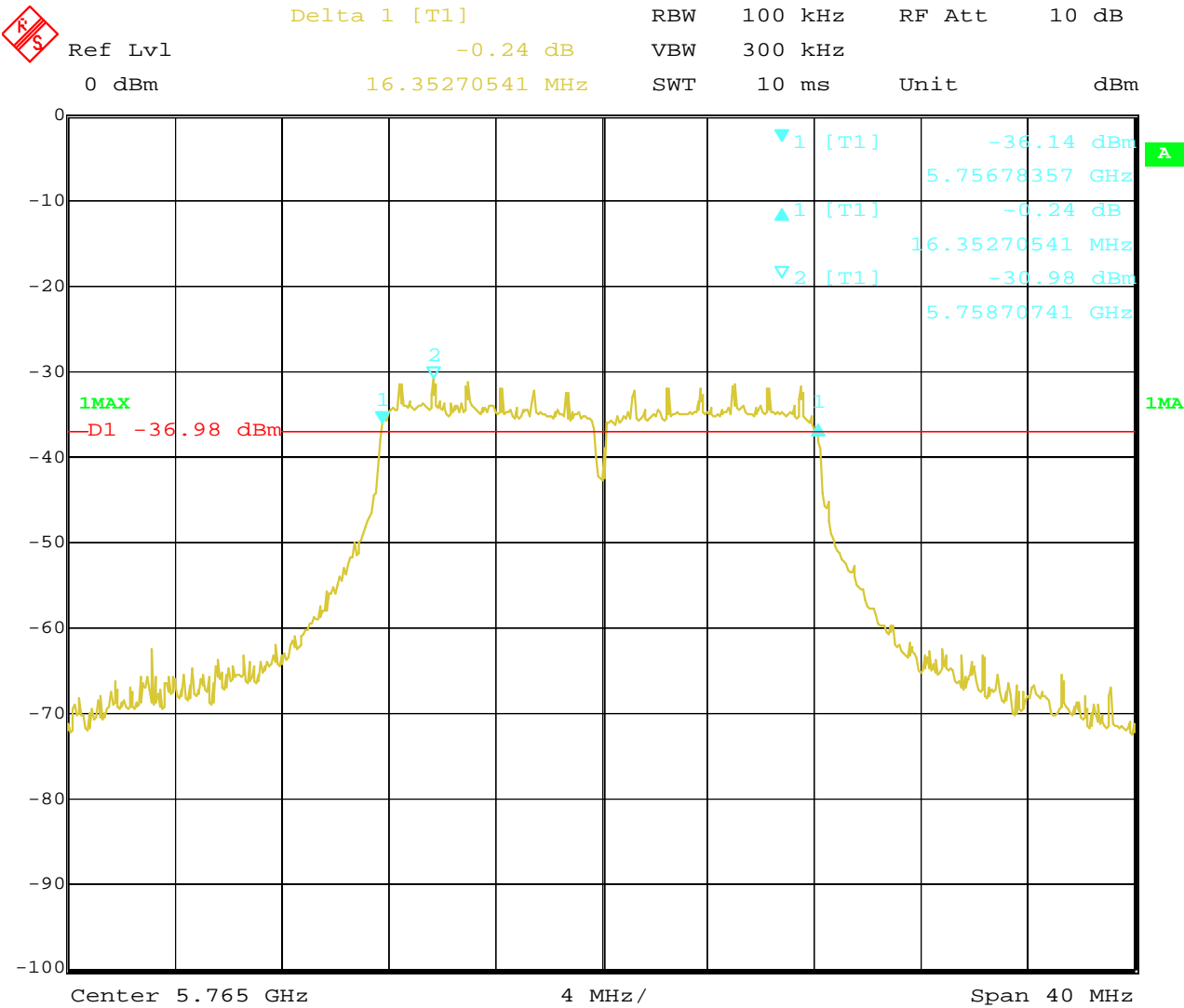


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Channel 153

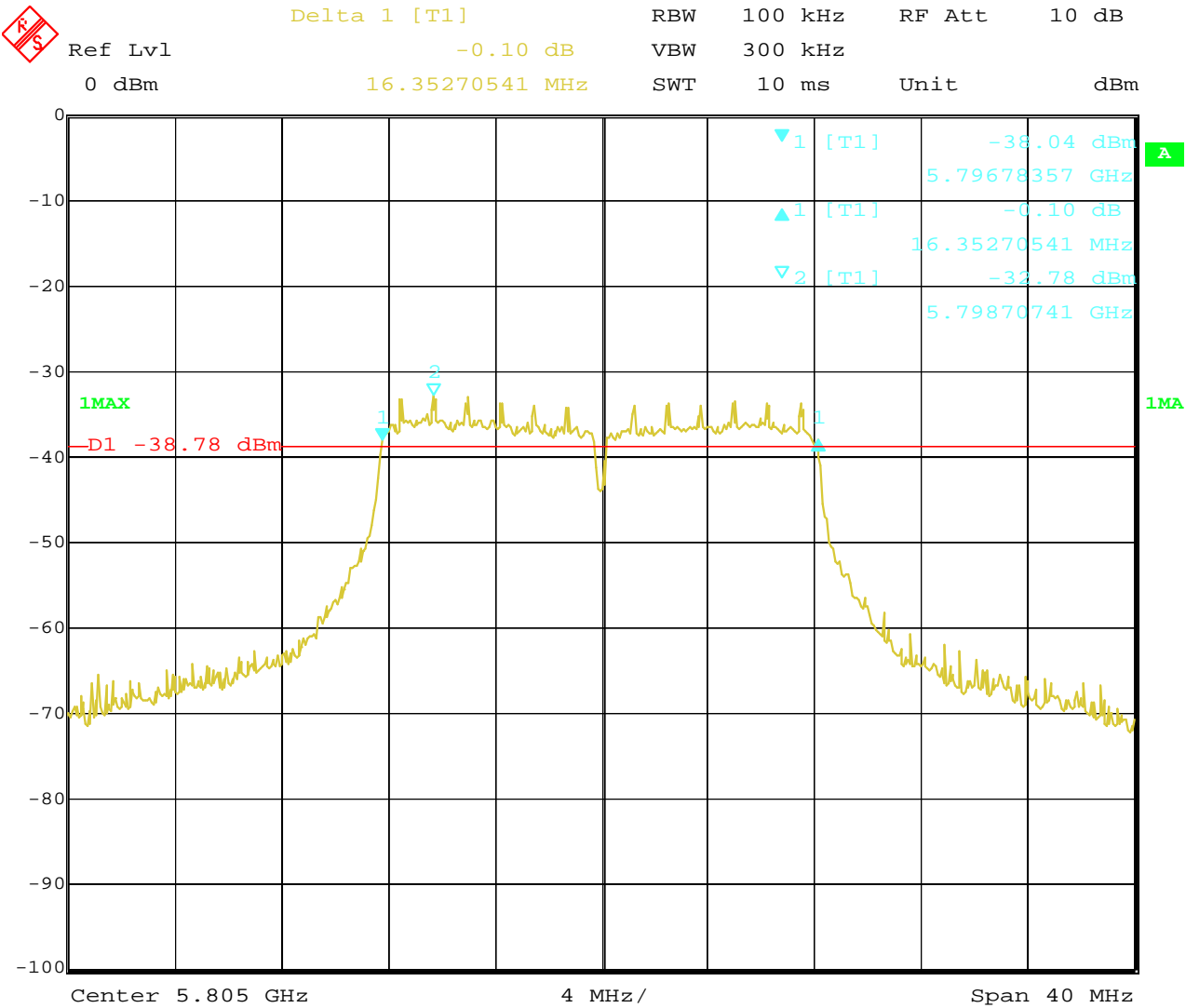


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Channel 161



Date: 8.JUL.2017 12:35:36

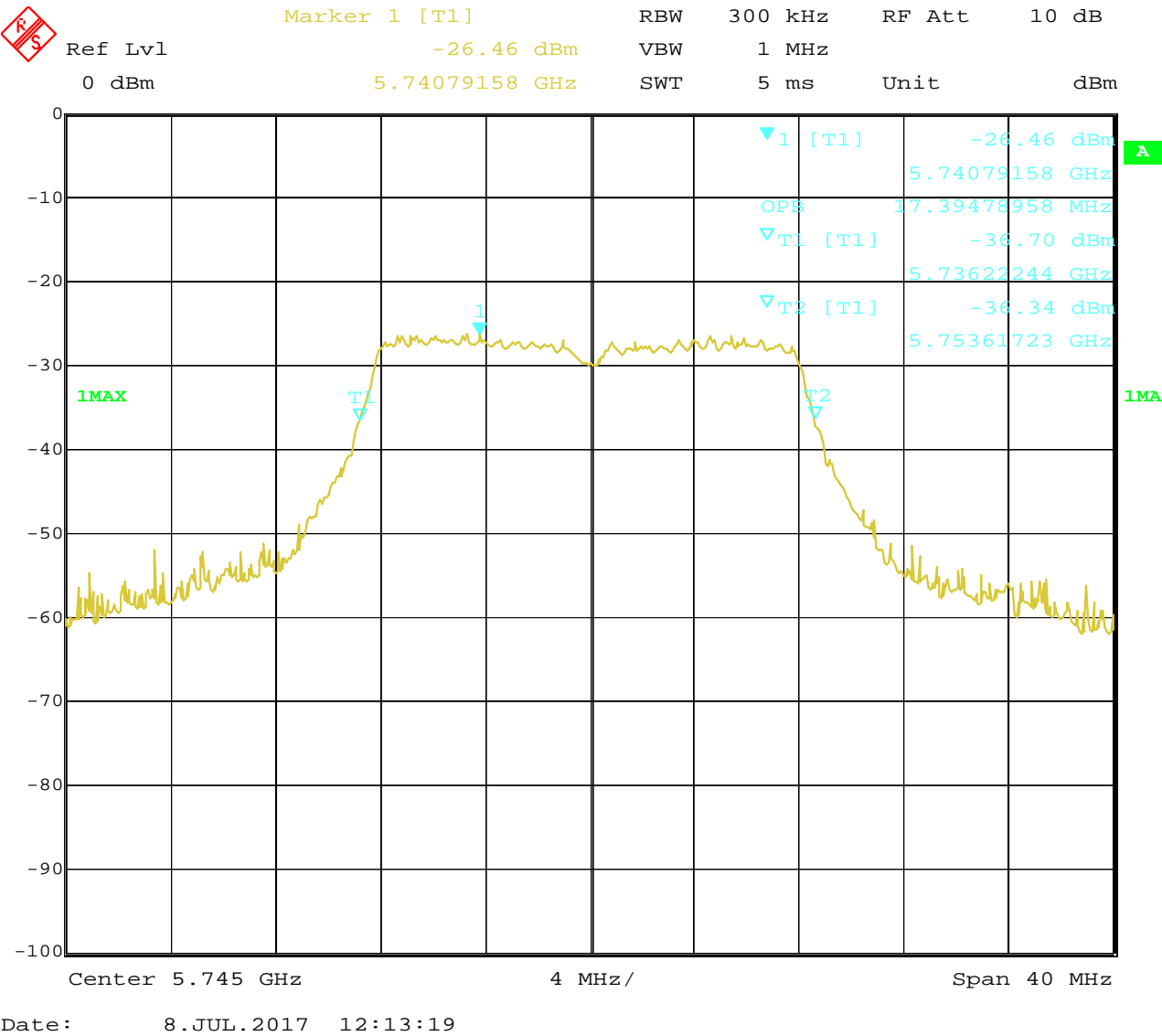
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Test Figure:

99% Bandwidth

Channel 149

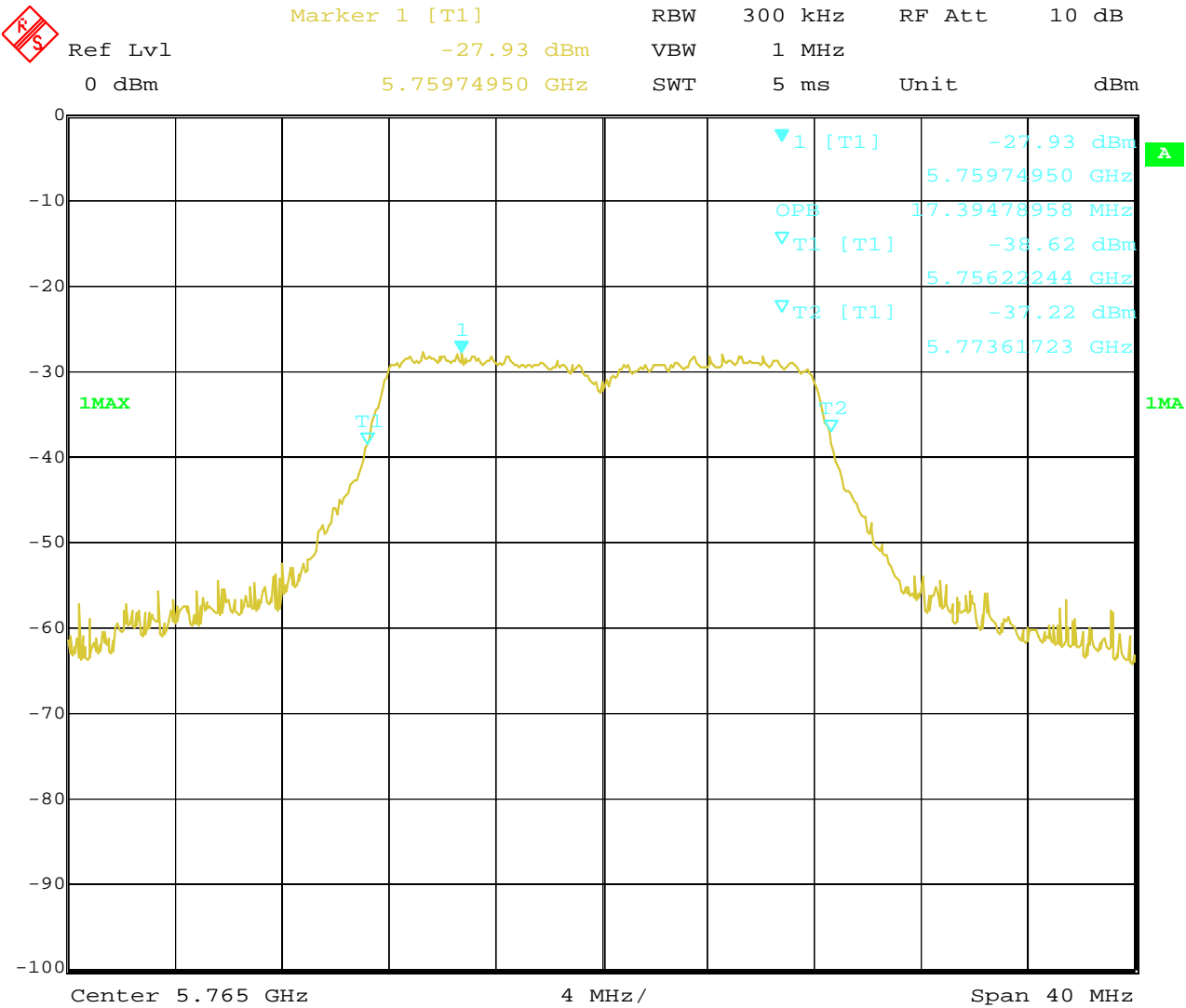


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Channel 153

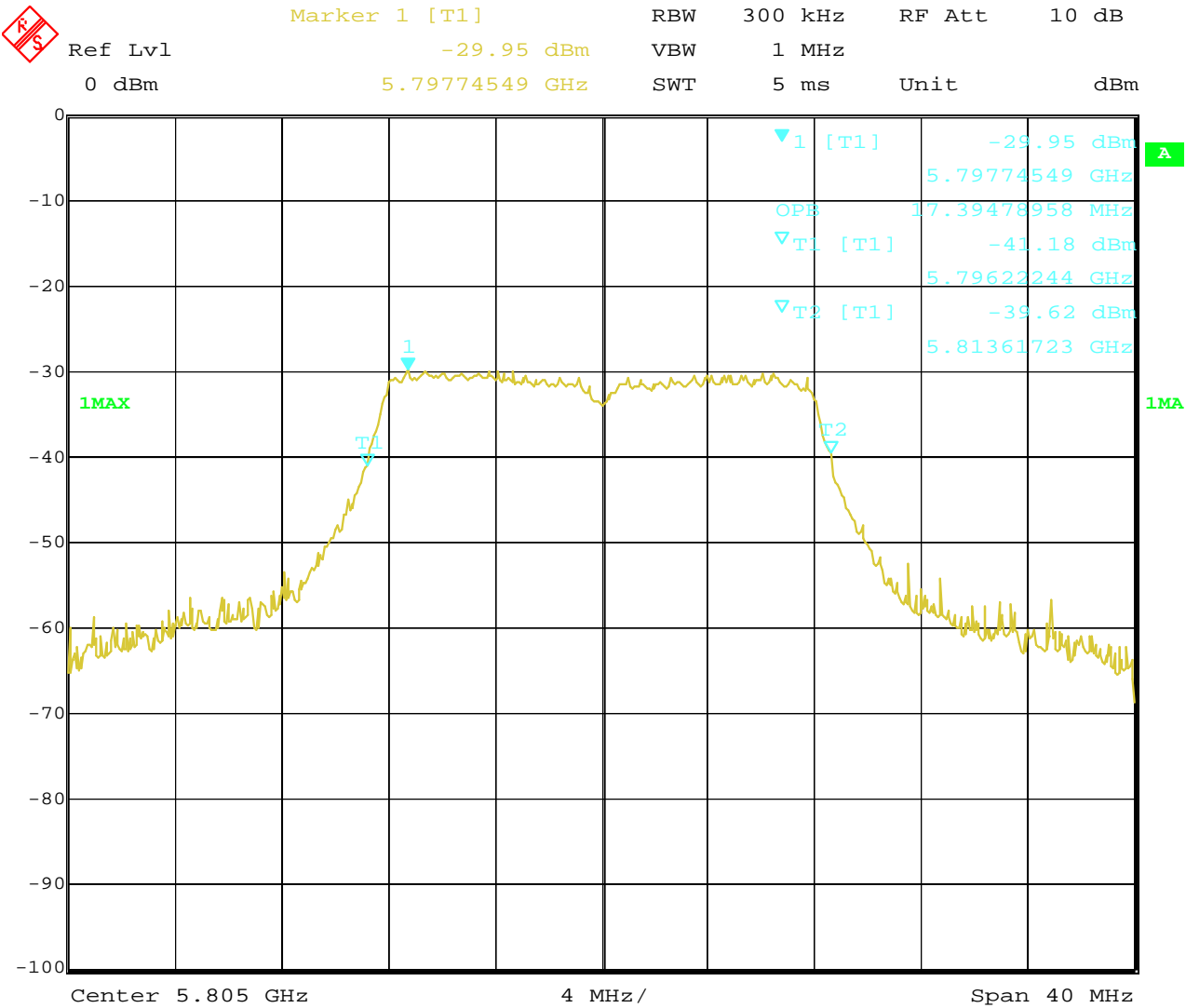


Date:            8.JUL.2017    12:17:53

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertizing. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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Channel 161



Date: 8.JUL.2017 12:20:41

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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11n HT20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
36	5180	mcs0	22.65	--	Pass
40	5200	mcs0	22.75	--	Pass
48	5240	mcs0	22.85	--	Pass
<b>99% Bandwidth</b>					
36	5180	mcs0	18.11	--	Pass
40	5200	mcs0	18.20	--	Pass
48	5240	mcs0	18.20	--	Pass

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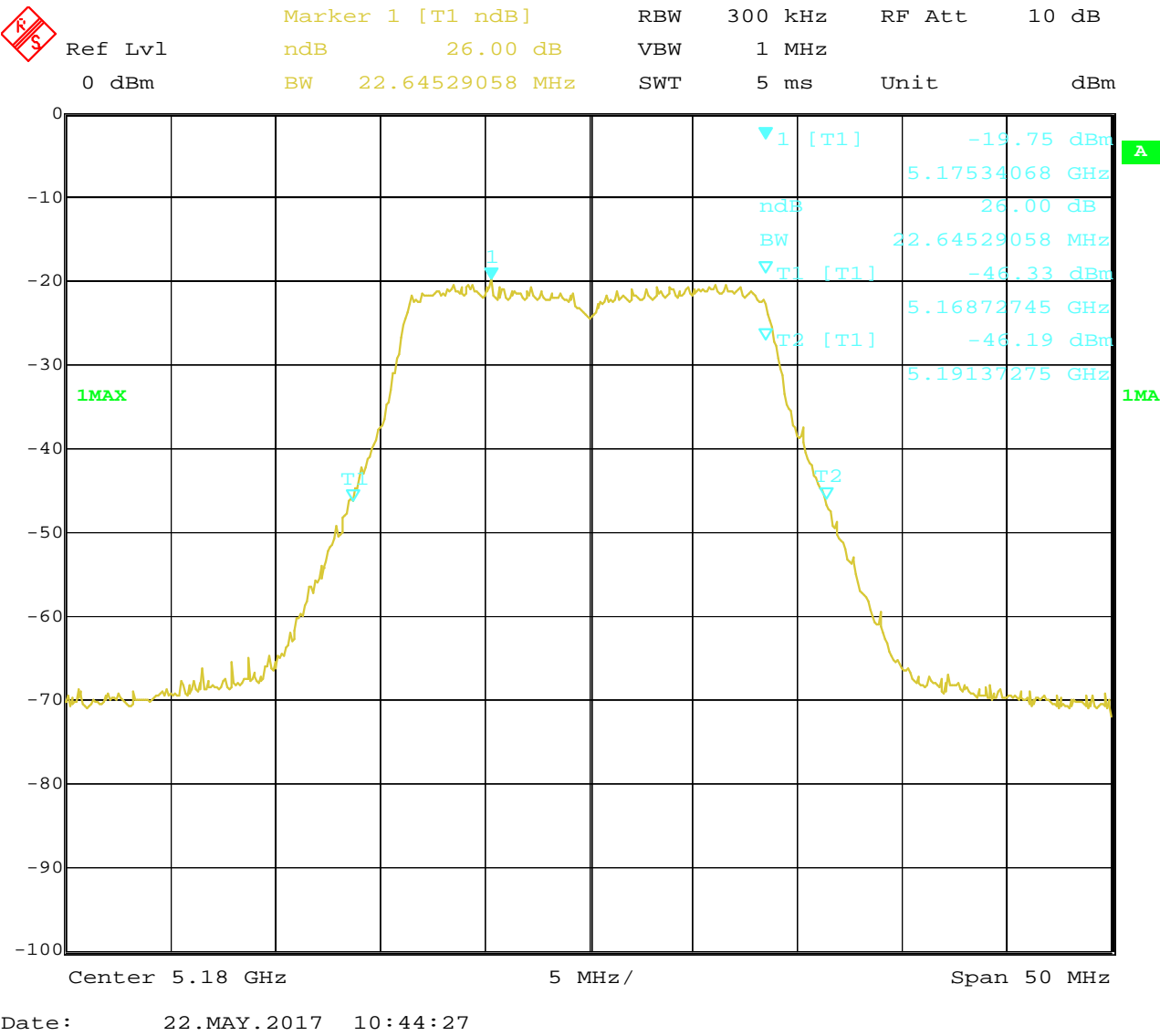
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

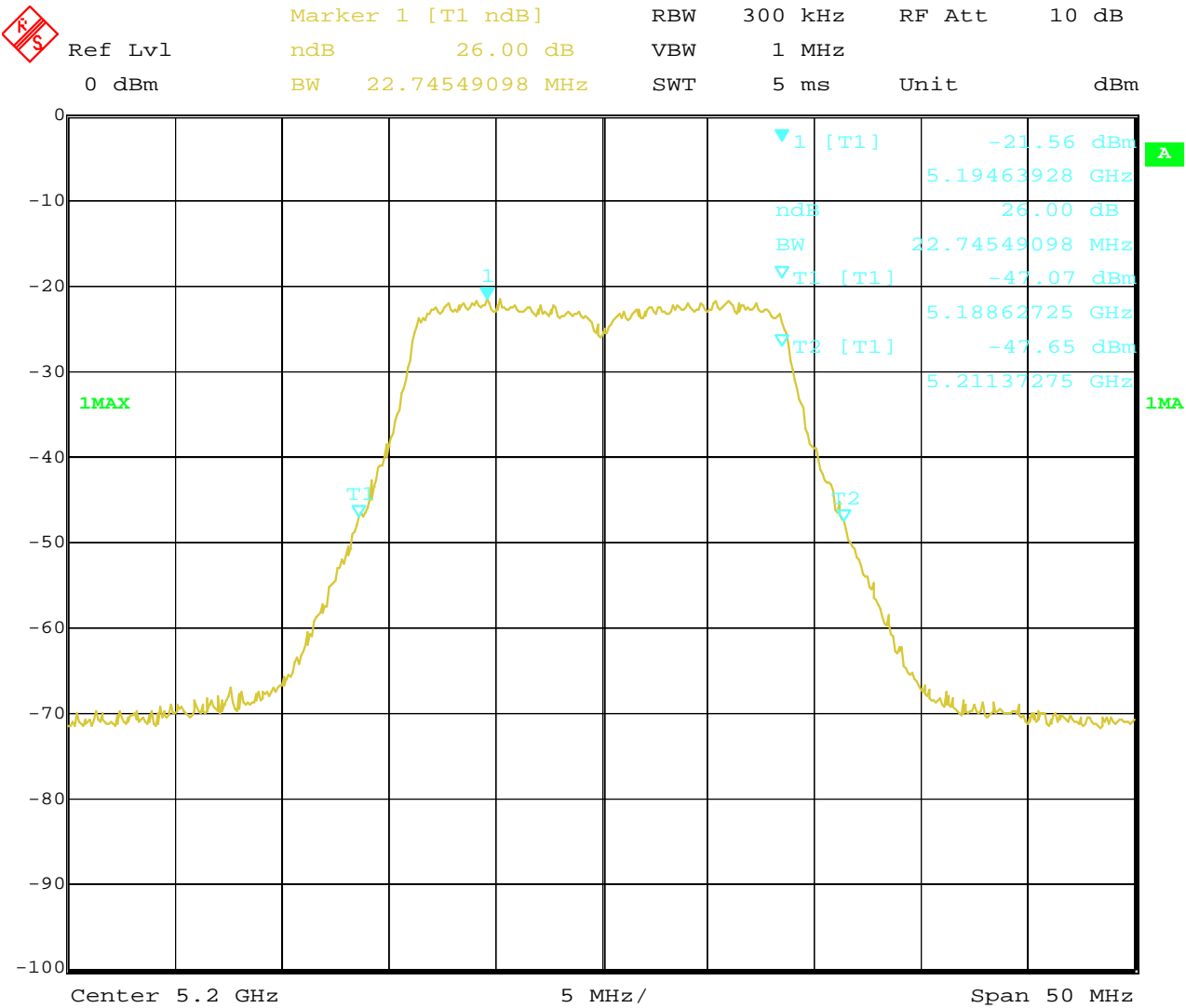
Channel 36



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 40

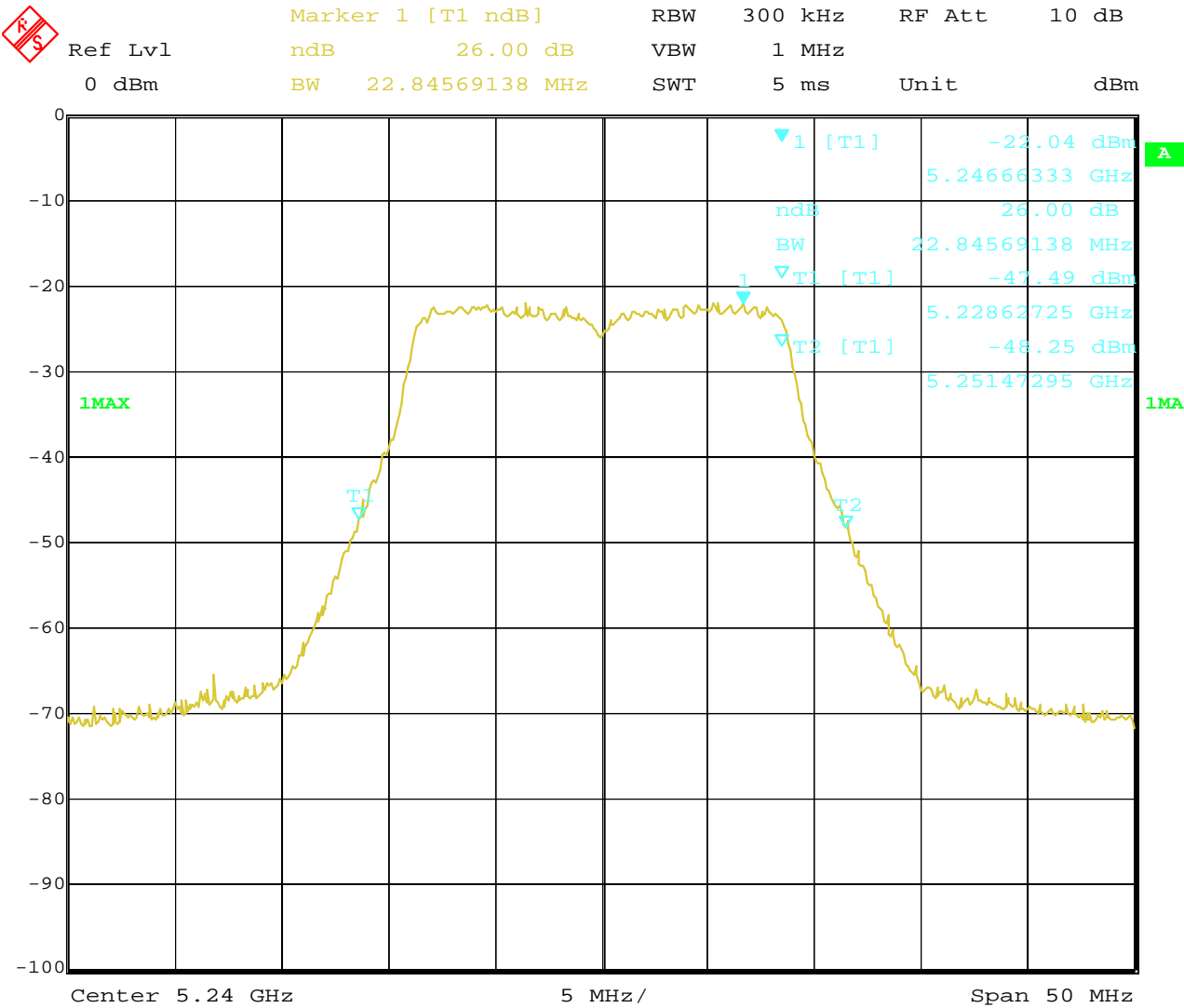


Date: 22.MAY.2017 10:50:02

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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Channel 48



Date: 22.MAY.2017 10:54:04

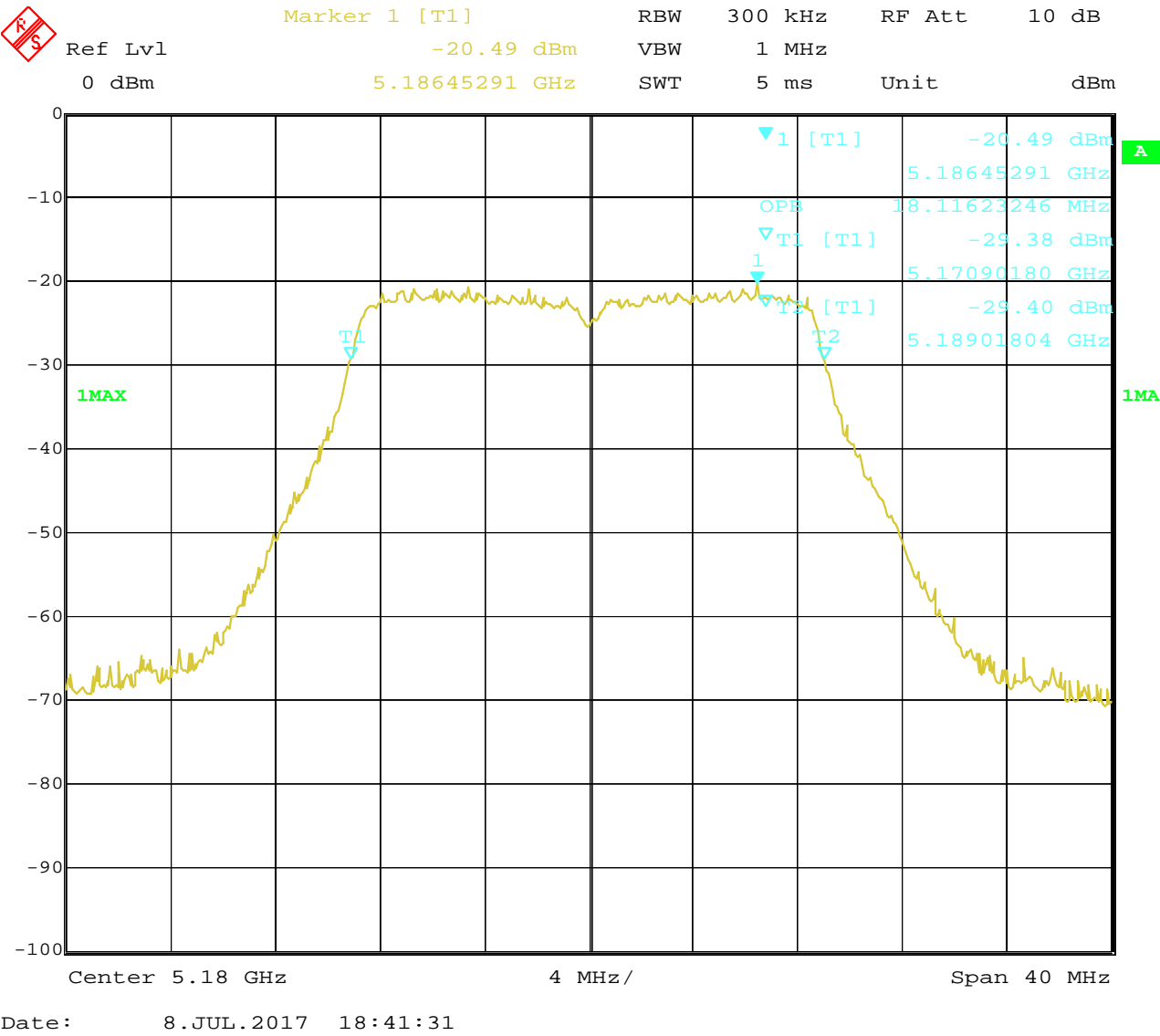
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Test Configure

99% Bandwidth

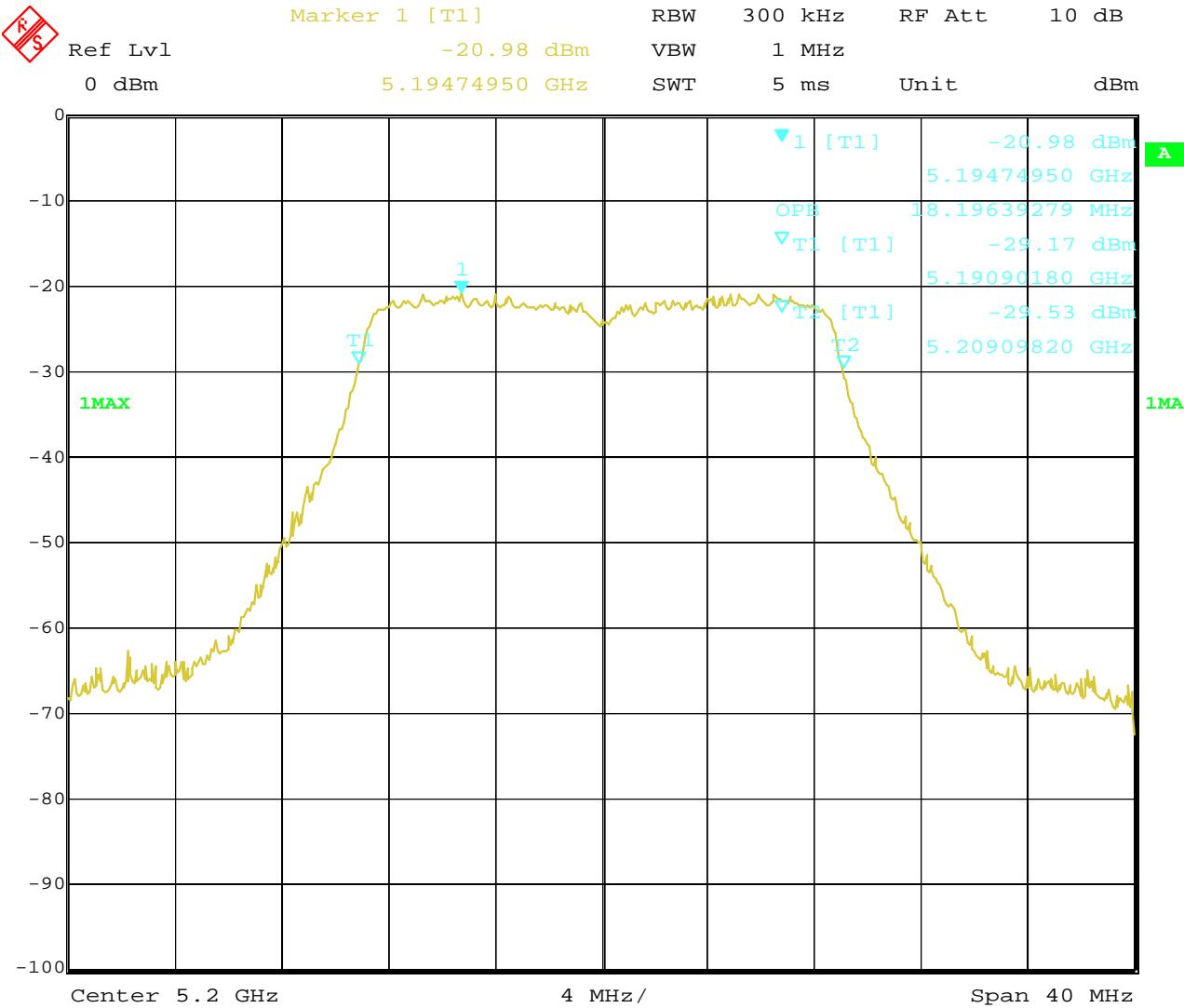
Channel 36



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 40



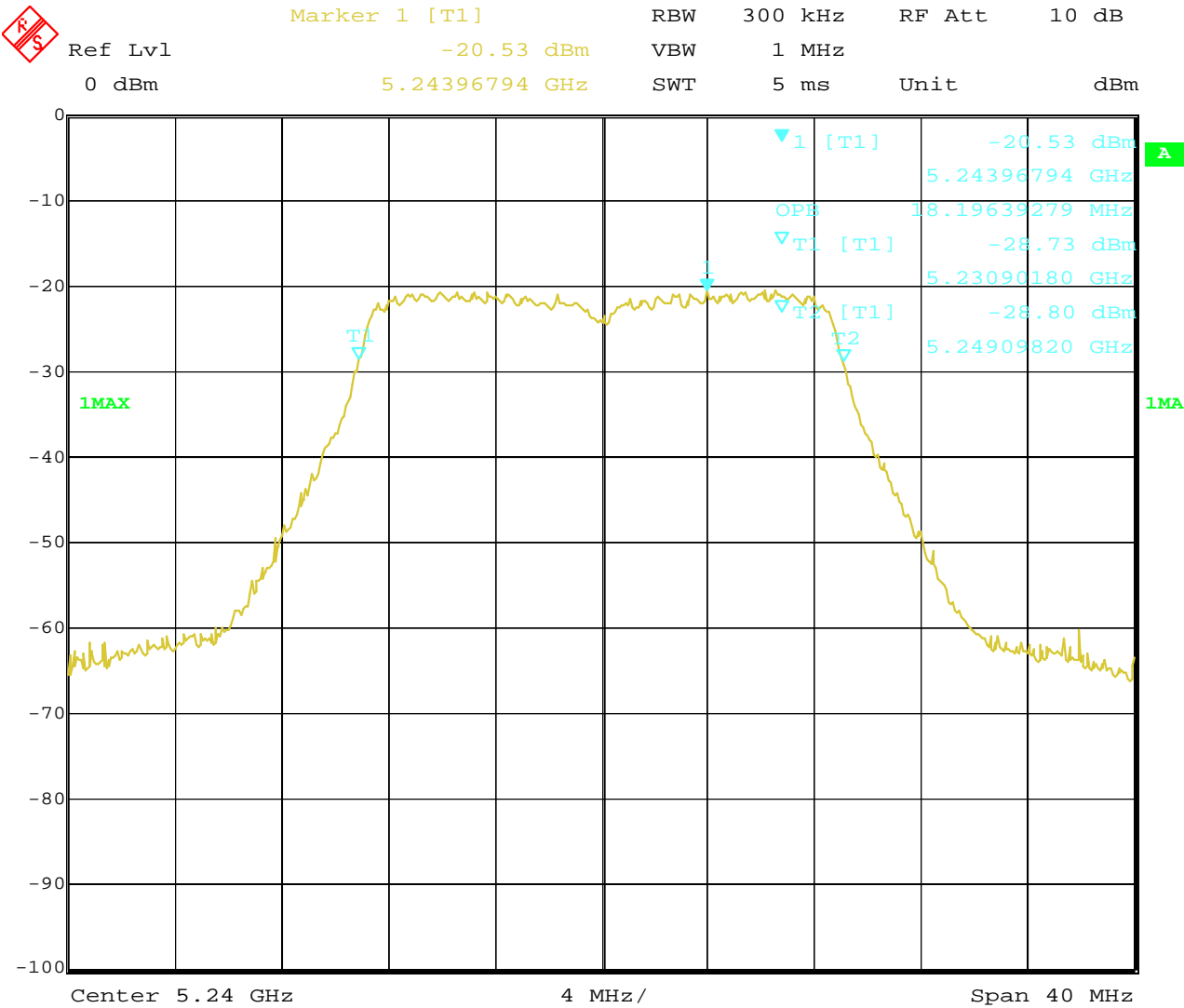
Date: 8.JUL.2017 18:39:47

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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Channel 48



Date: 8.JUL.2017 18:37:27

The report refers only to the sample tested and does not apply to the bulk.  
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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11n HT20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
149	5745	6	22.69	--	Pass
153	5765	6	23.00	--	Pass
161	5805	6	23.00	--	Pass
<b>6dB Bandwidth</b>					
149	5745	6	17.27	0.5	Pass
153	5765	6	17.60	0.5	Pass
161	5805	6	17.31	0.5	Pass
<b>99% Bandwidth</b>					
149	5745	6	18.20	--	Pass
153	5765	6	18.20	--	Pass
161	5805	6	18.20	--	Pass

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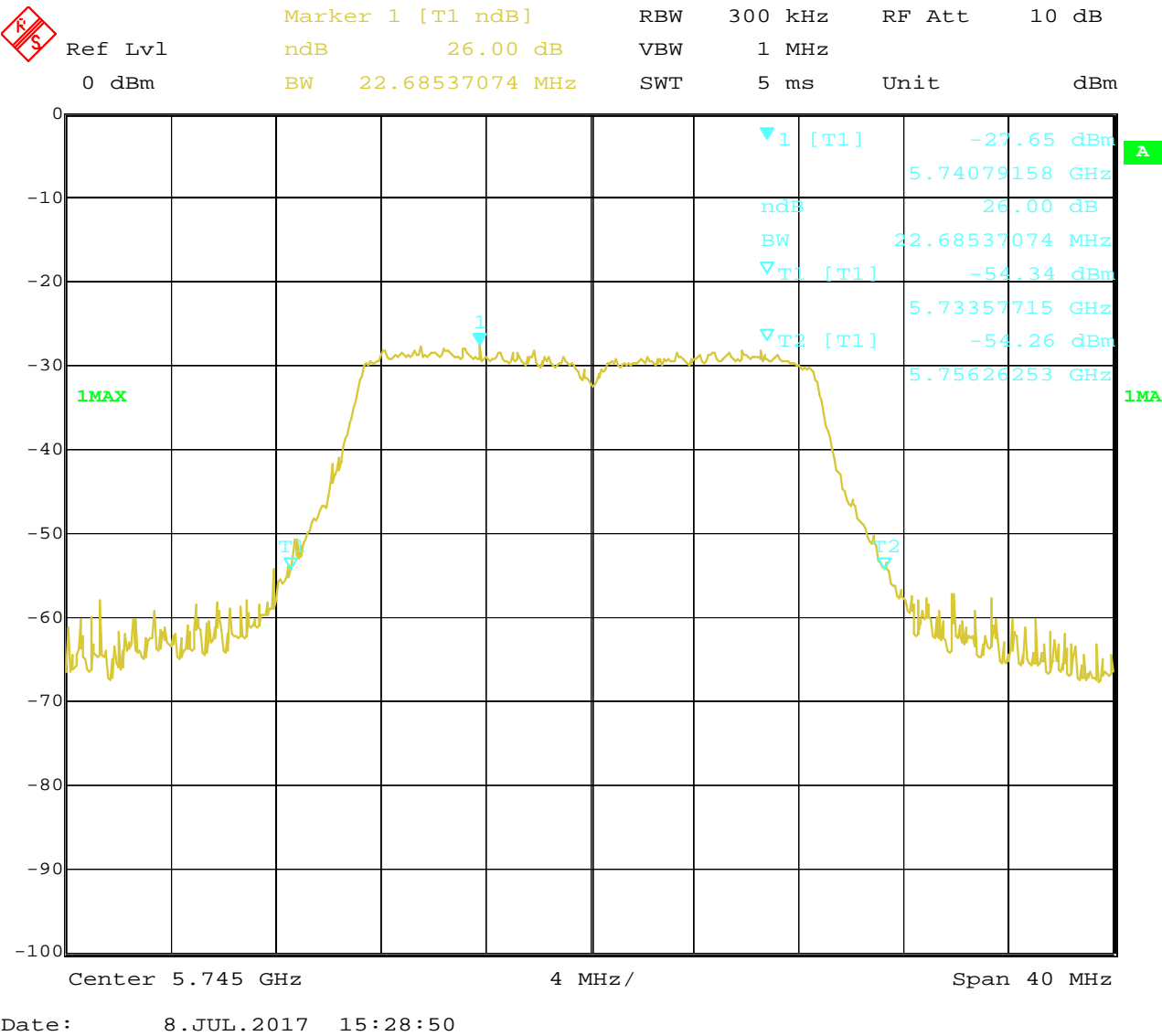
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

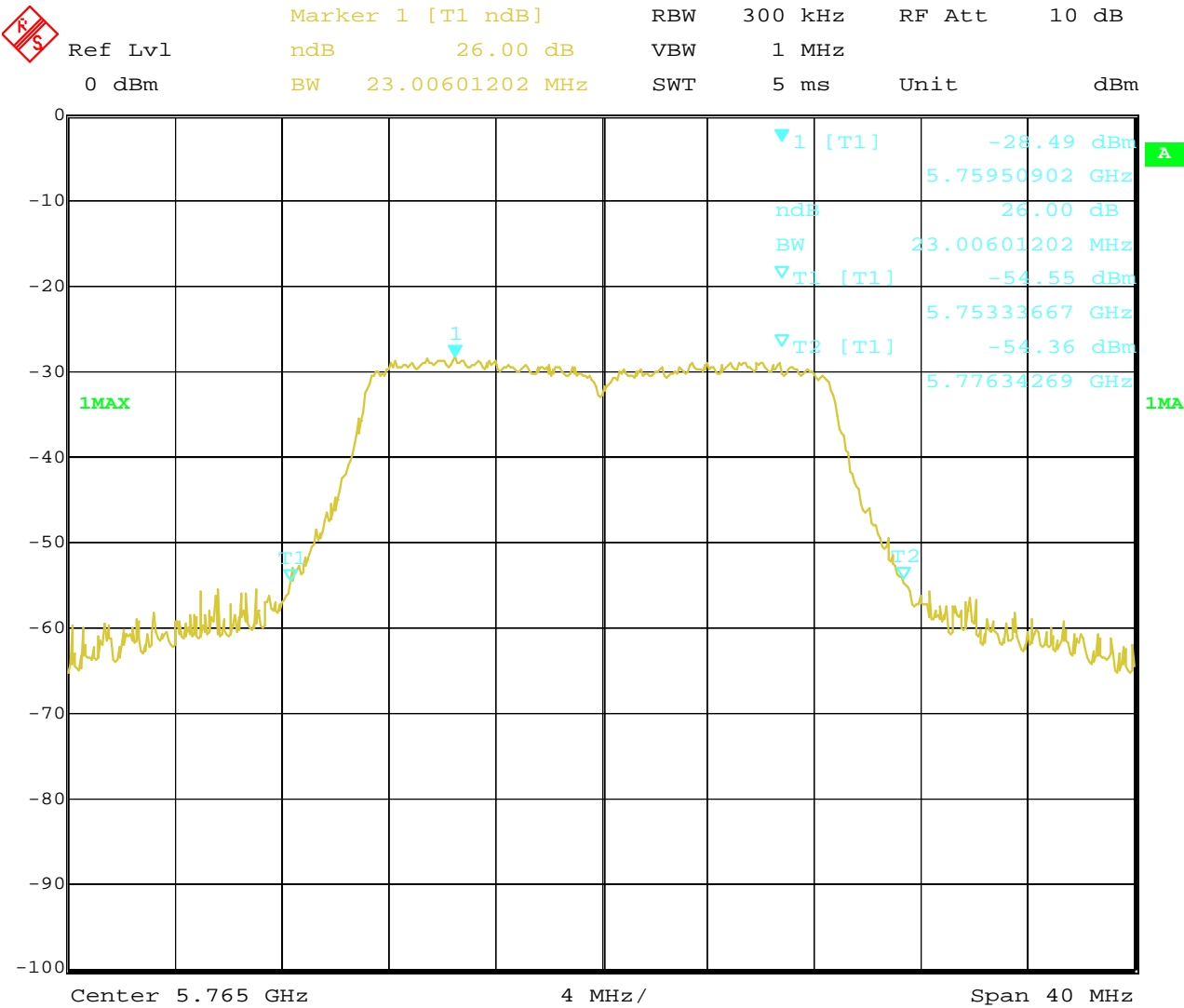
Channel 149



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 153

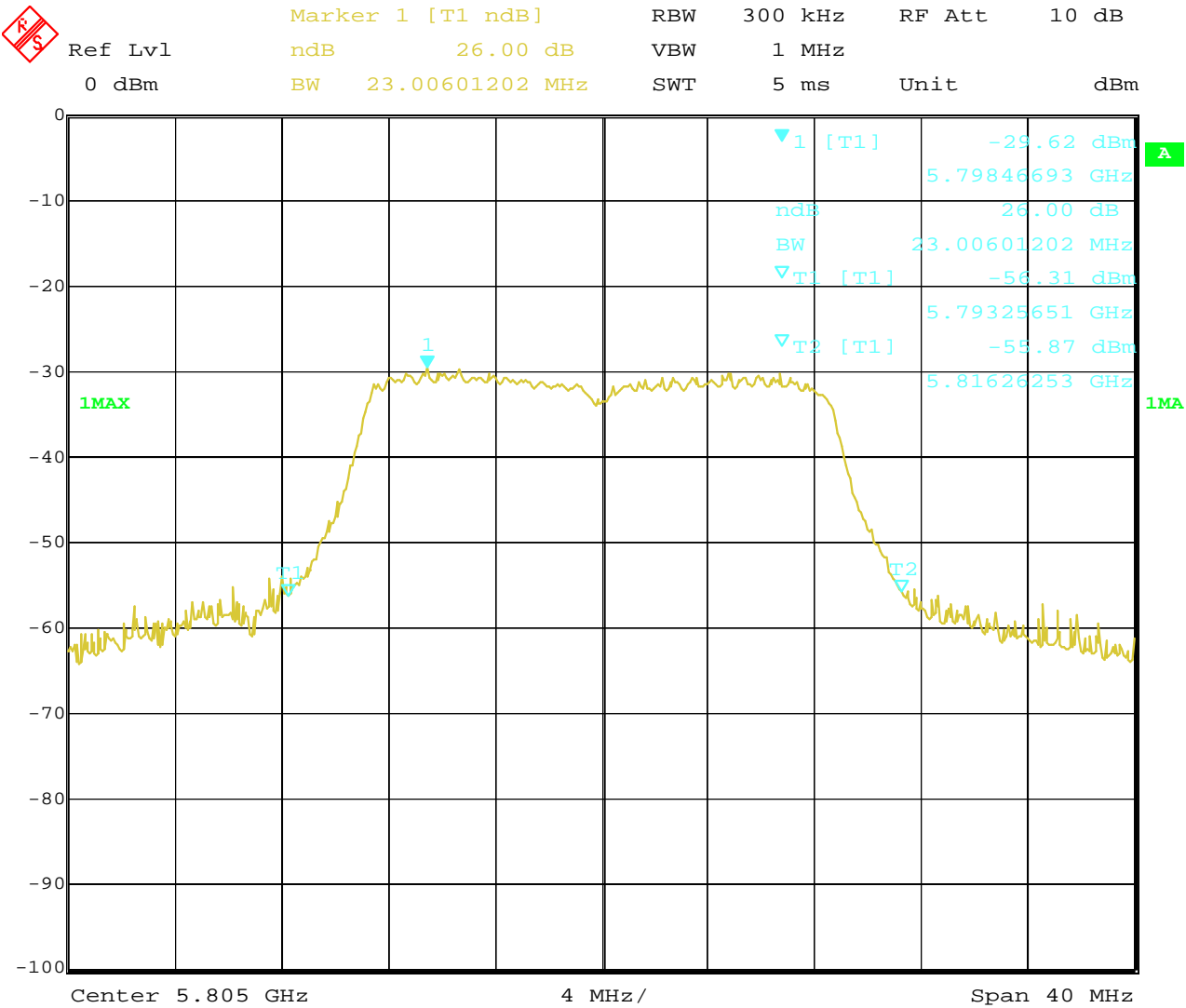


Date: 8.JUL.2017 15:32:49

The report refers only to the sample tested and does not apply to the bulk.  
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Channel 161



Date: 8.JUL.2017 15:40:04

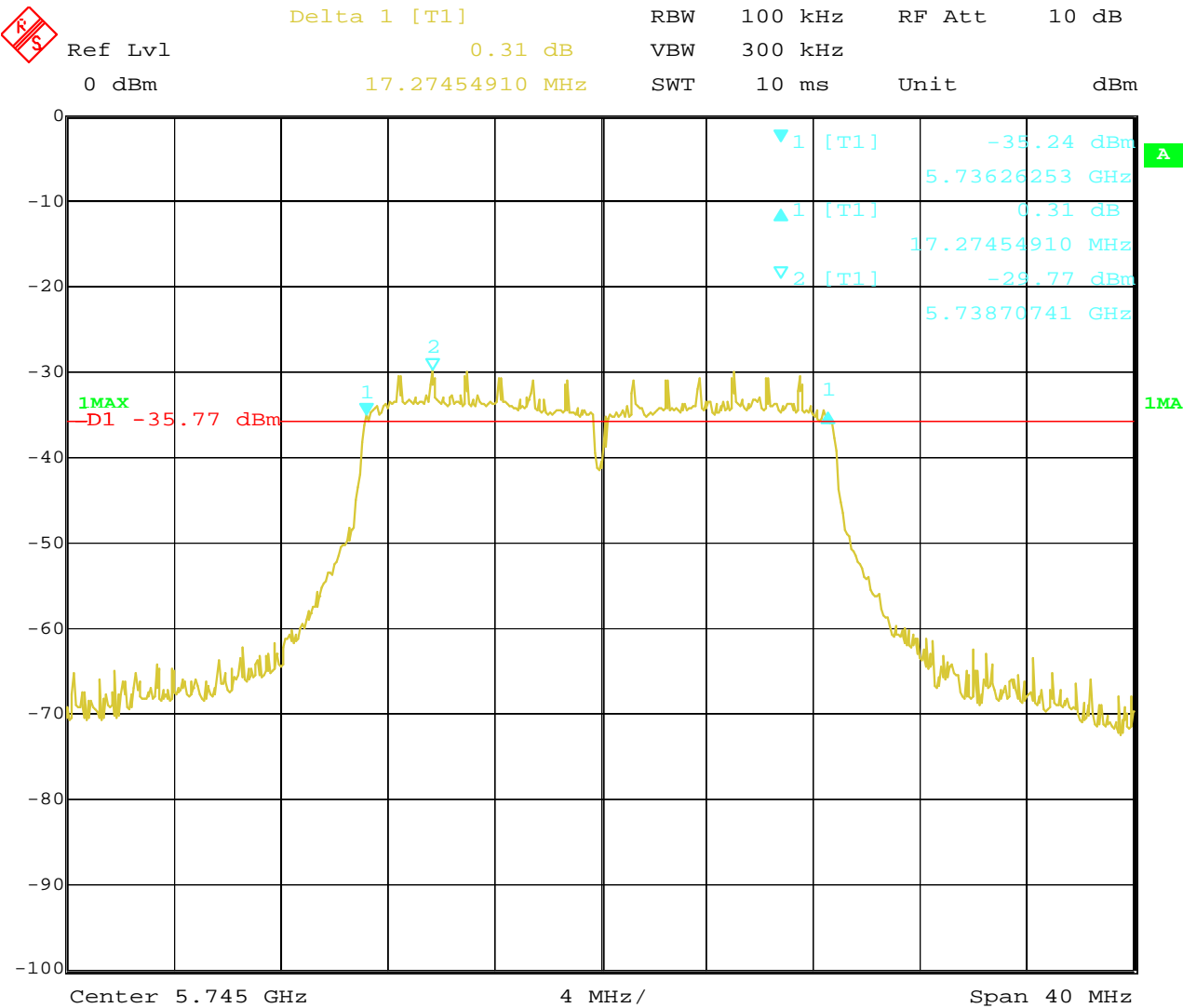
The report refers only to the sample tested and does not apply to the bulk.  
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Test Configure

6dB Bandwidth

Channel 149



Date: 8.JUL.2017 15:03:17

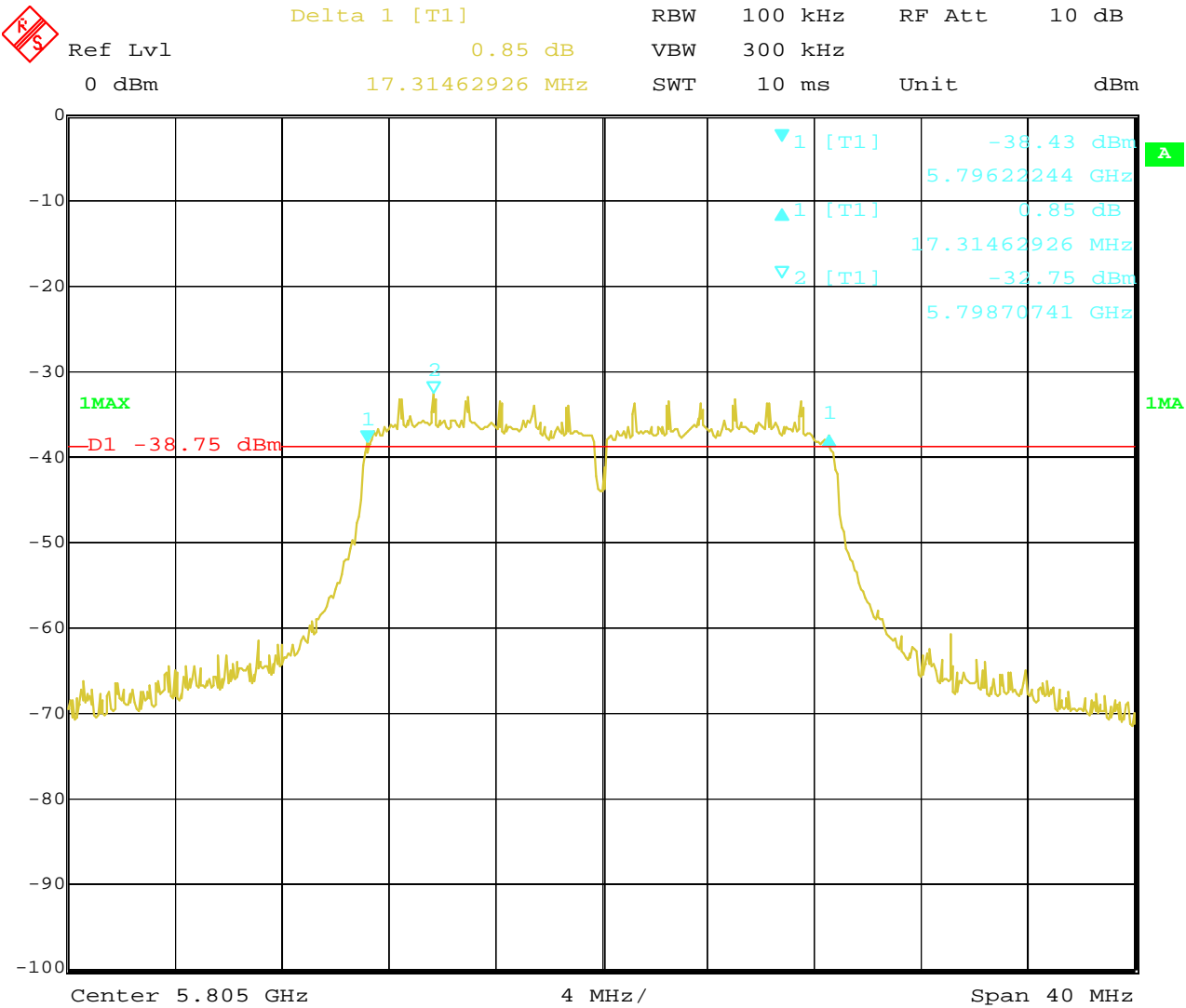
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Channel 161



Date: 8.JUL.2017 15:14:10

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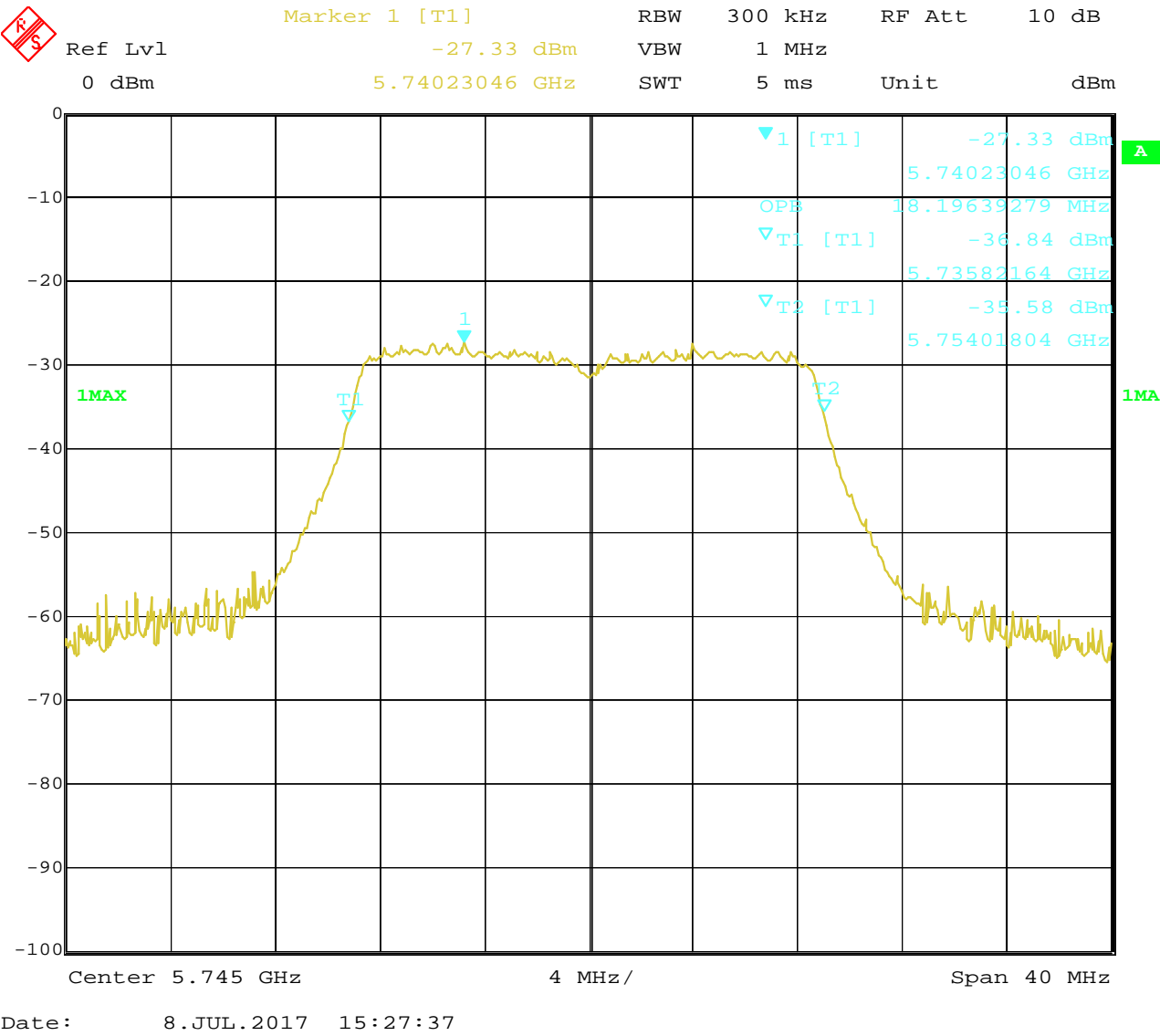




Test Configure

99% Bandwidth

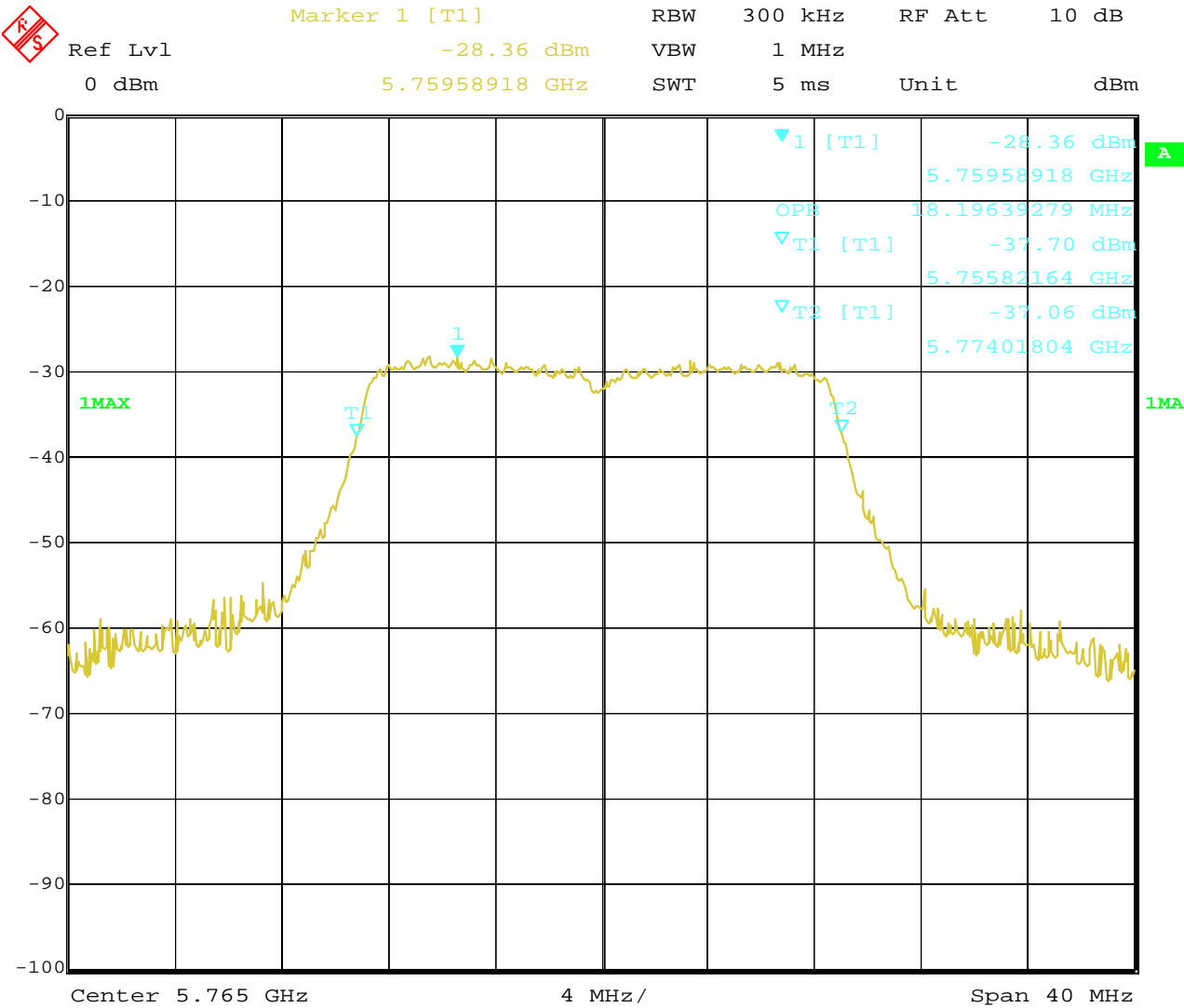
Channel 149



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 153

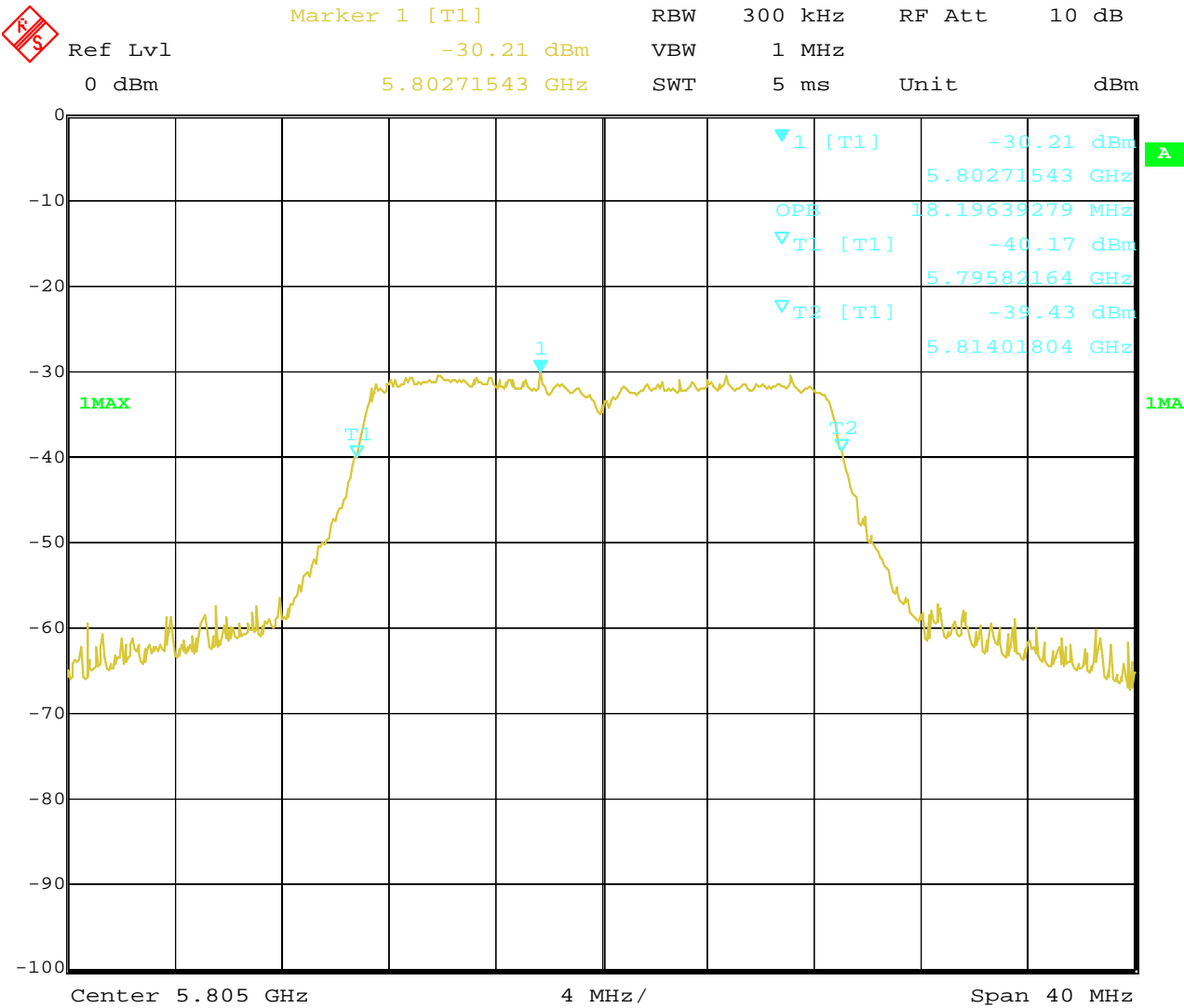


Date: 8.JUL.2017 15:20:13

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Channel 161



Date: 8.JUL.2017 15:16:15

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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11n HT40		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
38	5190	mcs0	43.13	--	Pass
46	5230	mcs0	43.61	--	Pass
<b>99% Bandwidth</b>					
38	5190	mcs0	36.39	--	Pass
46	5230	mcs0	36.55	--	Pass

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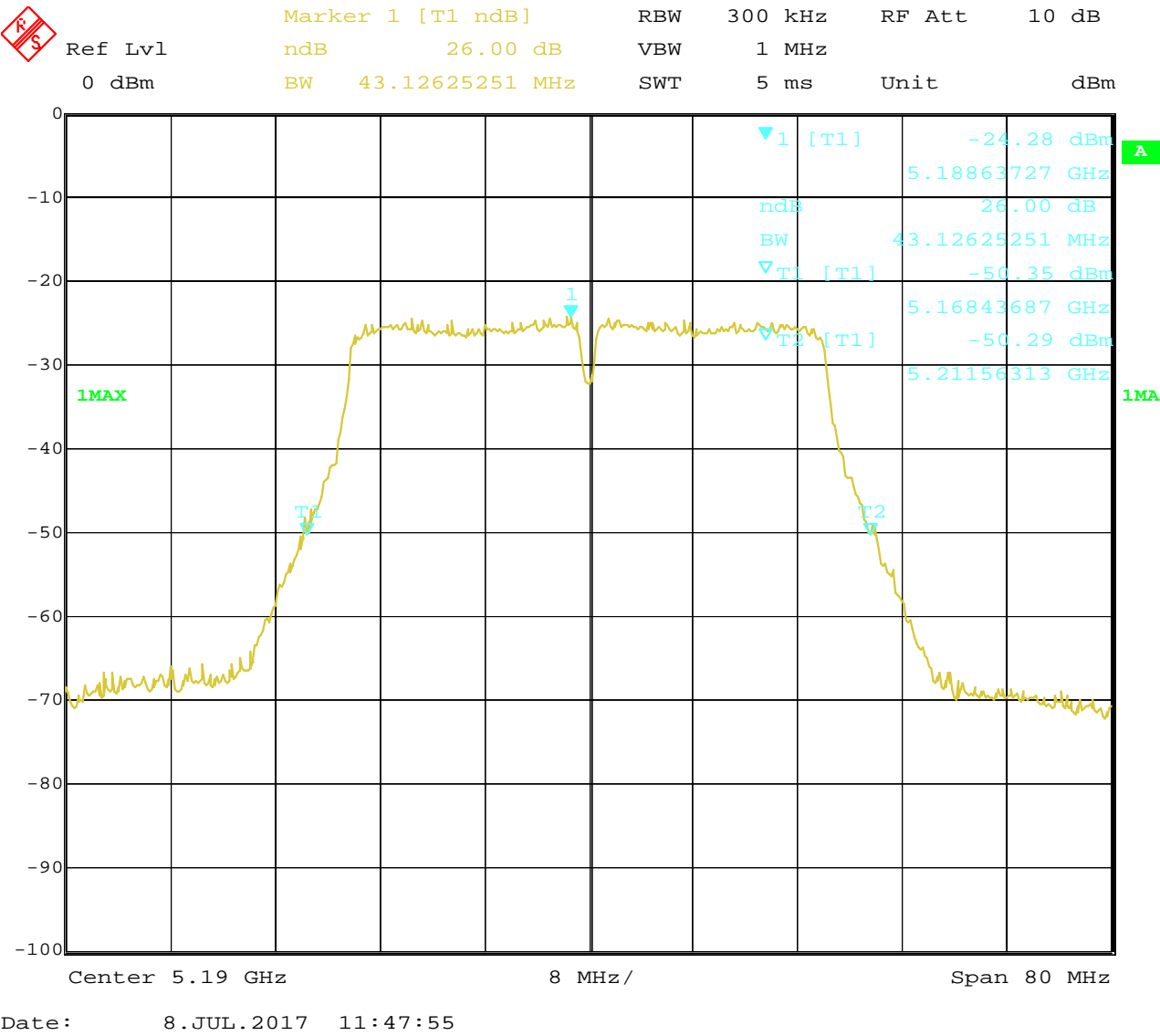
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 38



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

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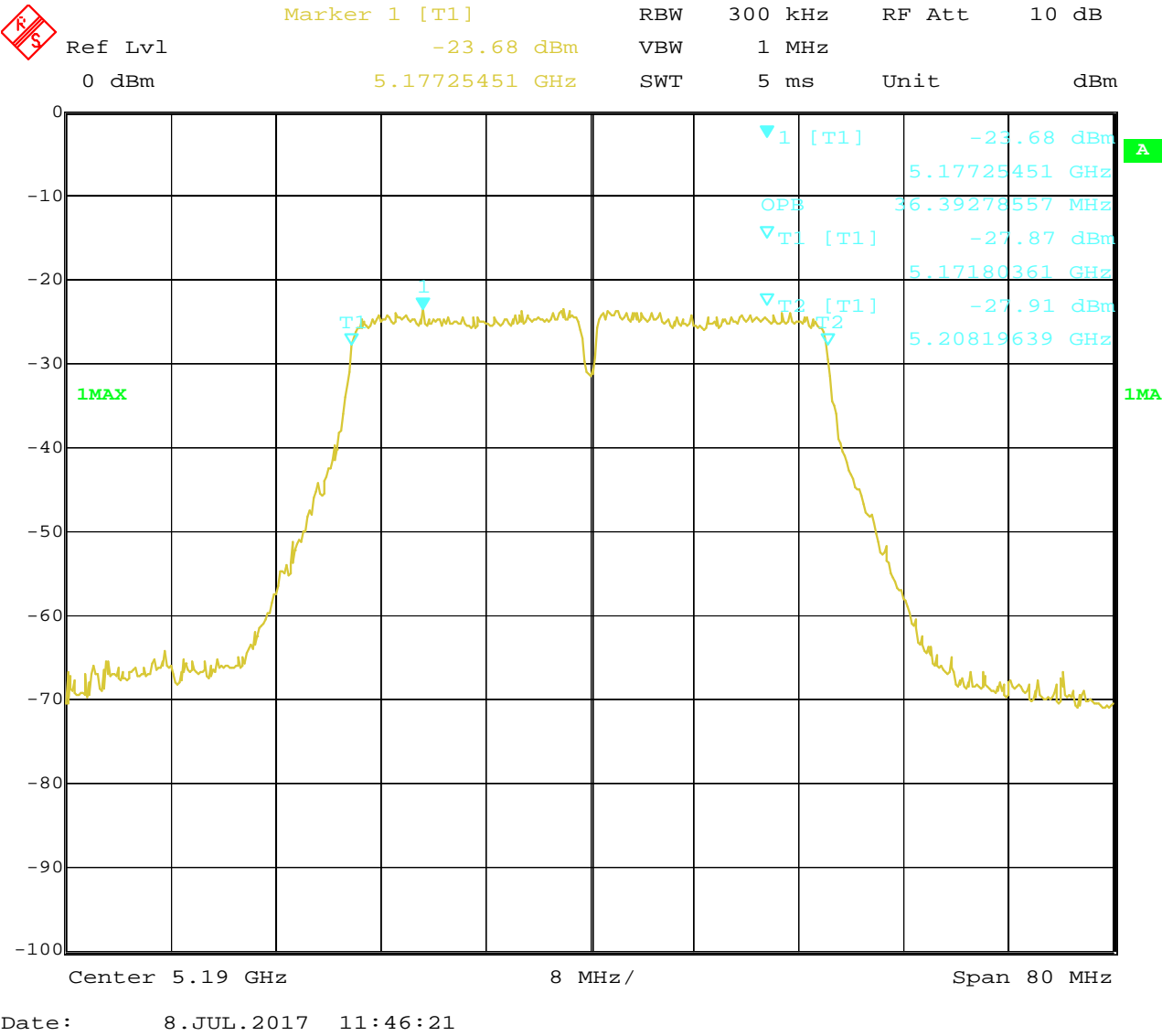
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Test Configure

99% Bandwidth

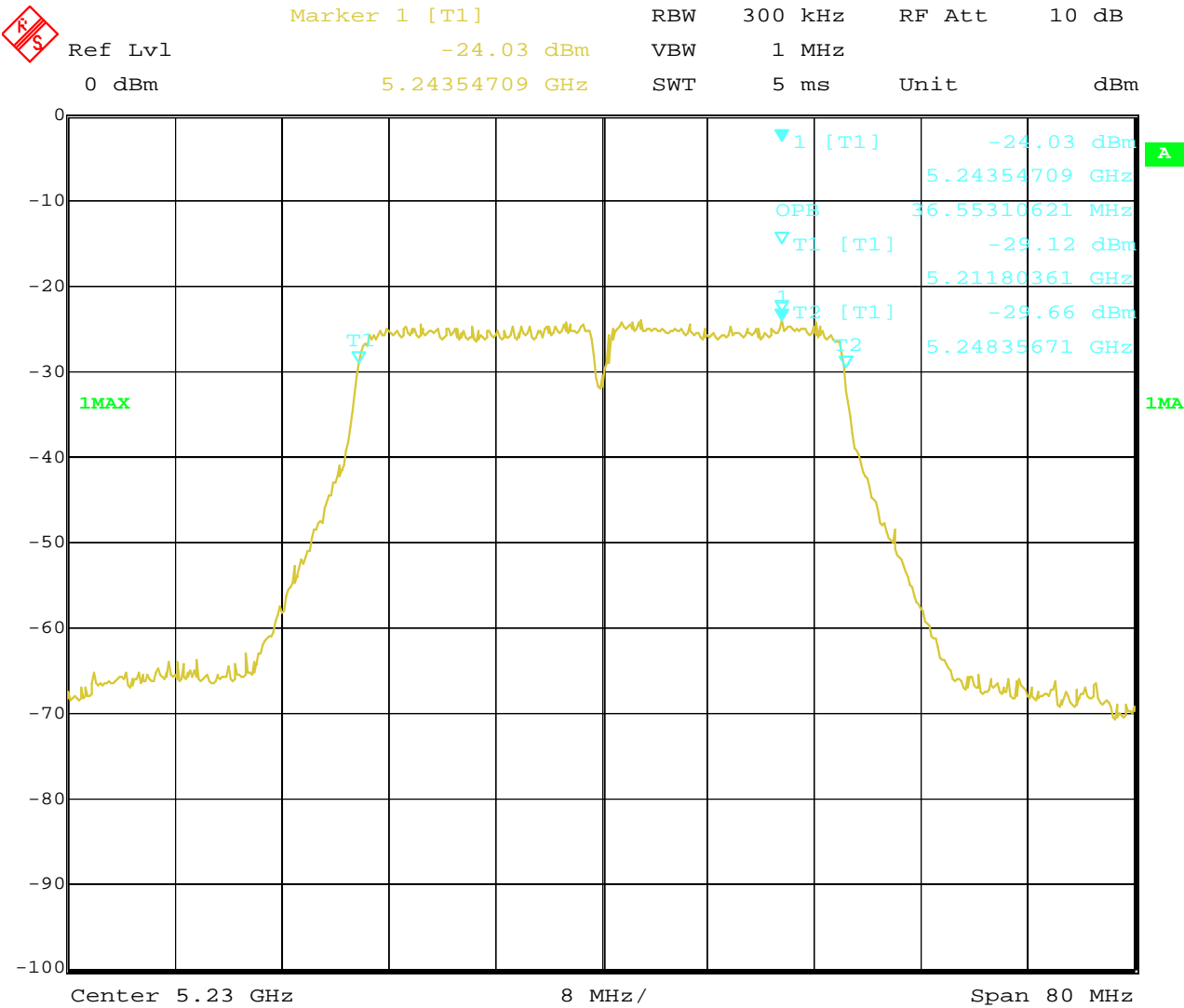
Channel 38



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Channel 46



Date: 8.JUL.2017 11:51:30

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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11n HT40		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
151	5755	mcs0	43.29	--	Pass
159	5795	mcs0	44.09	--	Pass
<b>6dB Bandwidth</b>					
151	5755	mcs0	36.07	0.5	Pass
159	5795	mcs0	35.91	0.5	Pass
<b>99% Bandwidth</b>					
151	5755	mcs0	36.55	--	Pass
159	5795	mcs0	36.55	--	Pass

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## 26dB Bandwidth

Channel 151

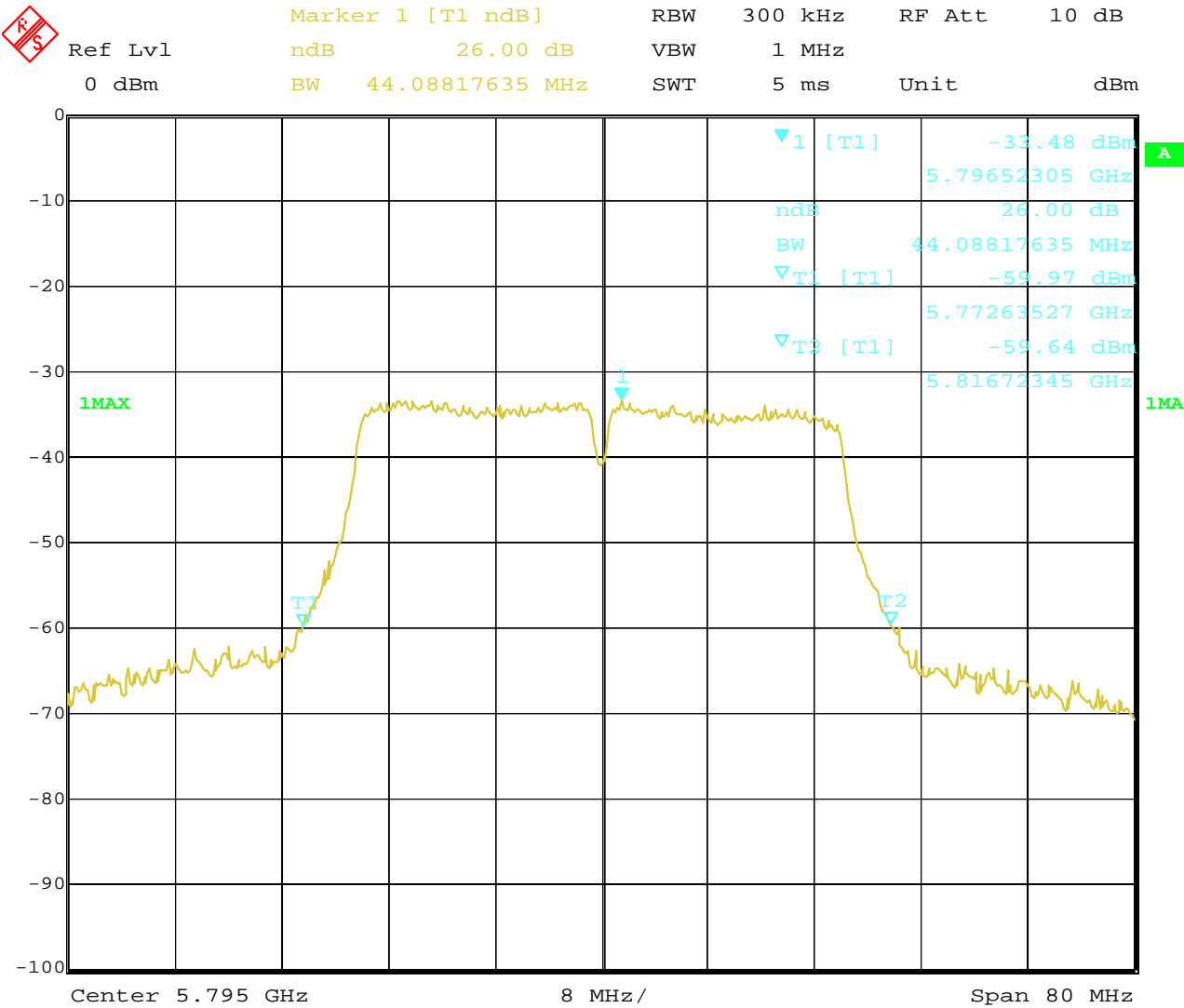


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Channel 159



Date: 8.JUL.2017 15:51:01

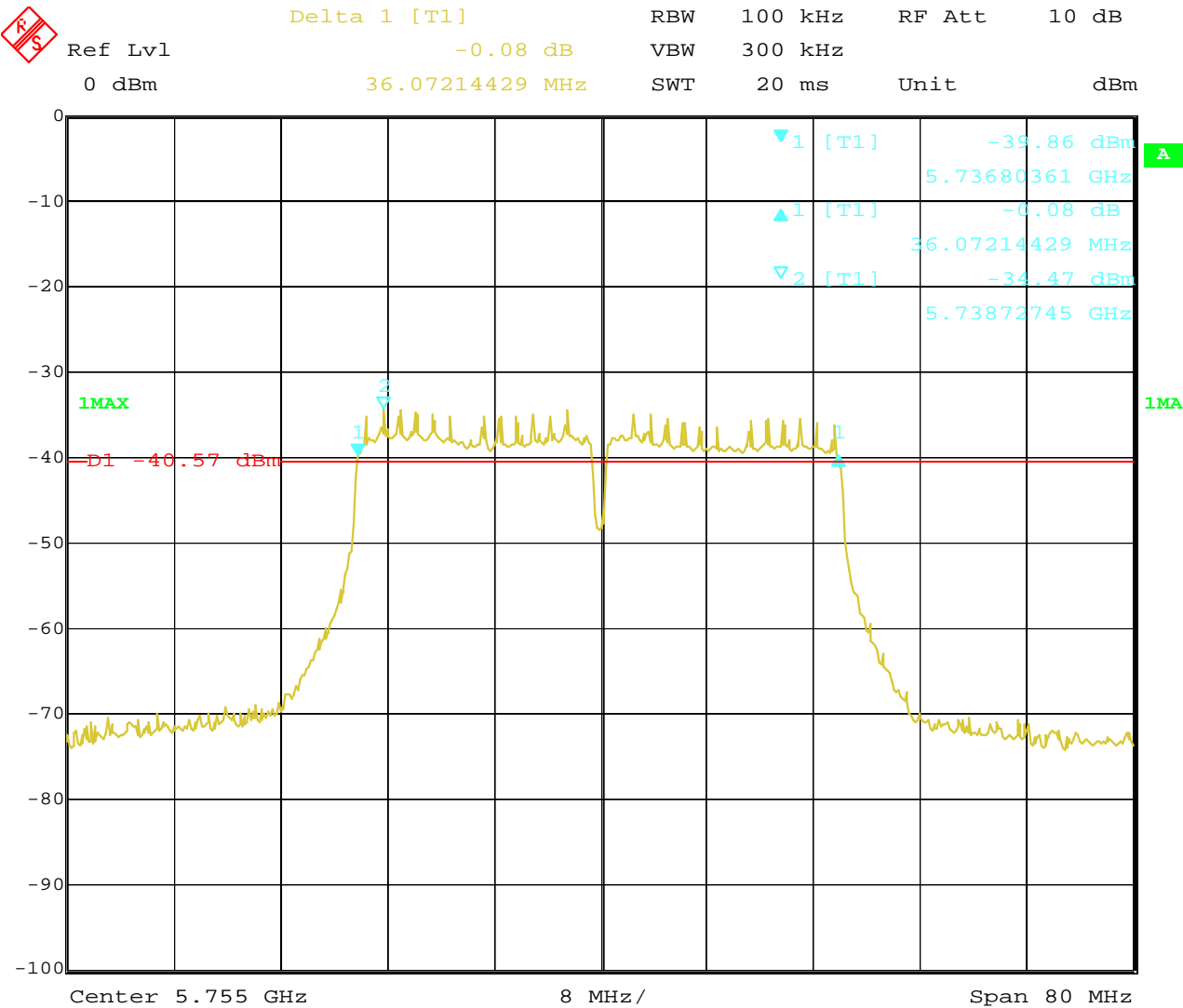
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Test Configure

6dB Bandwidth

Channel 151

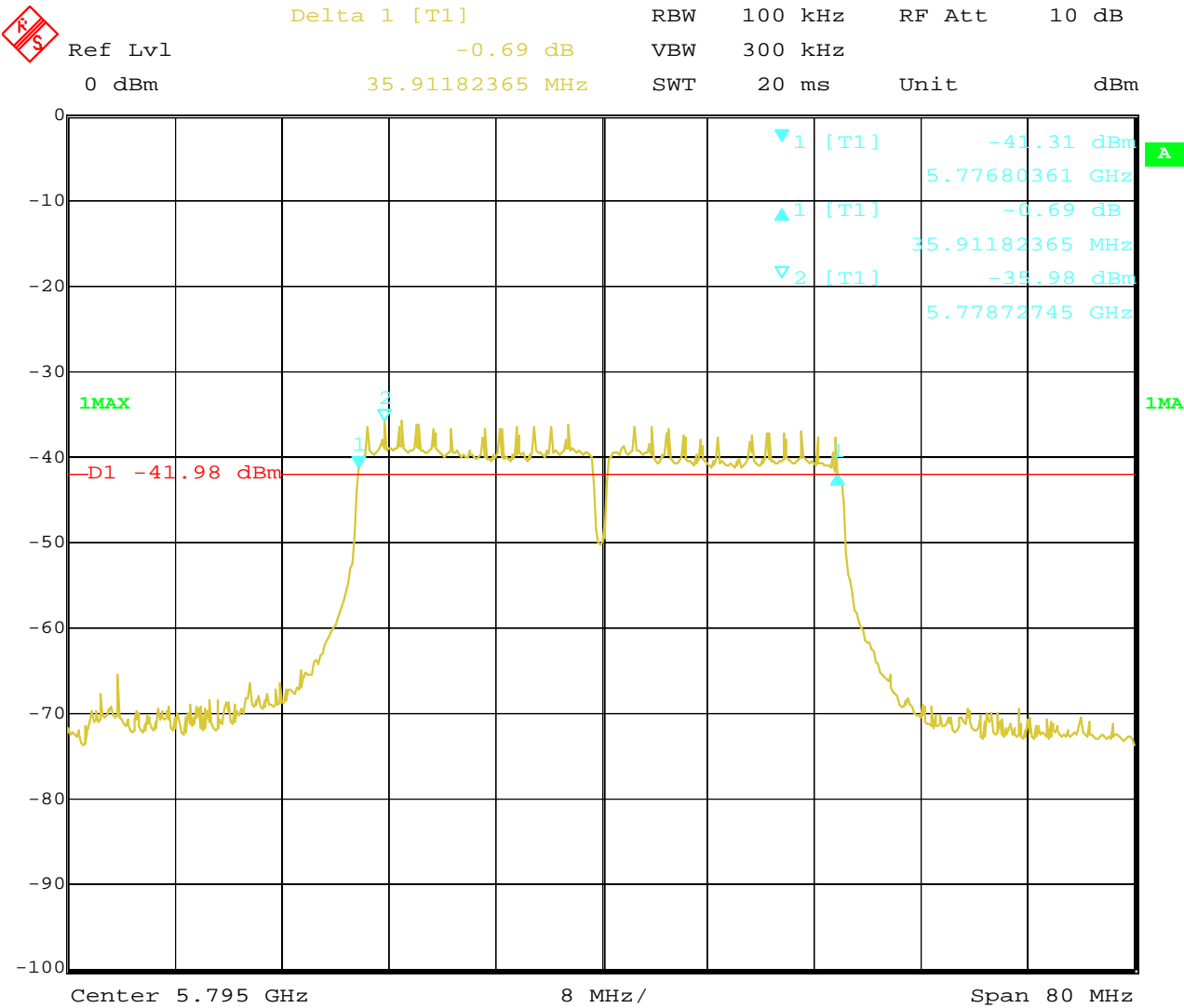


Date:      8.JUL.2017    16:02:42

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Channel 159



Date: 8.JUL.2017 16:07:34

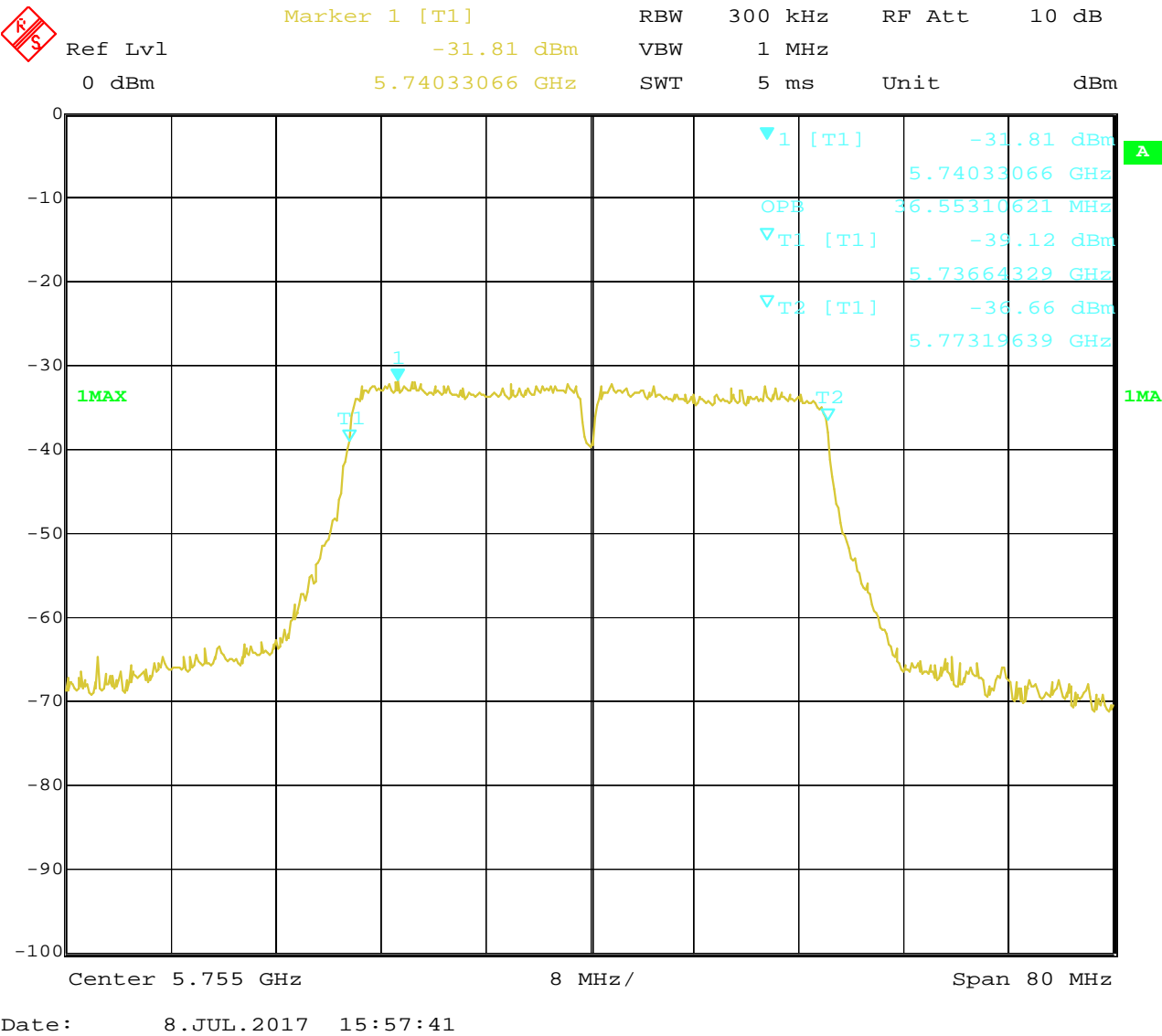
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Test Configure

99% Bandwidth

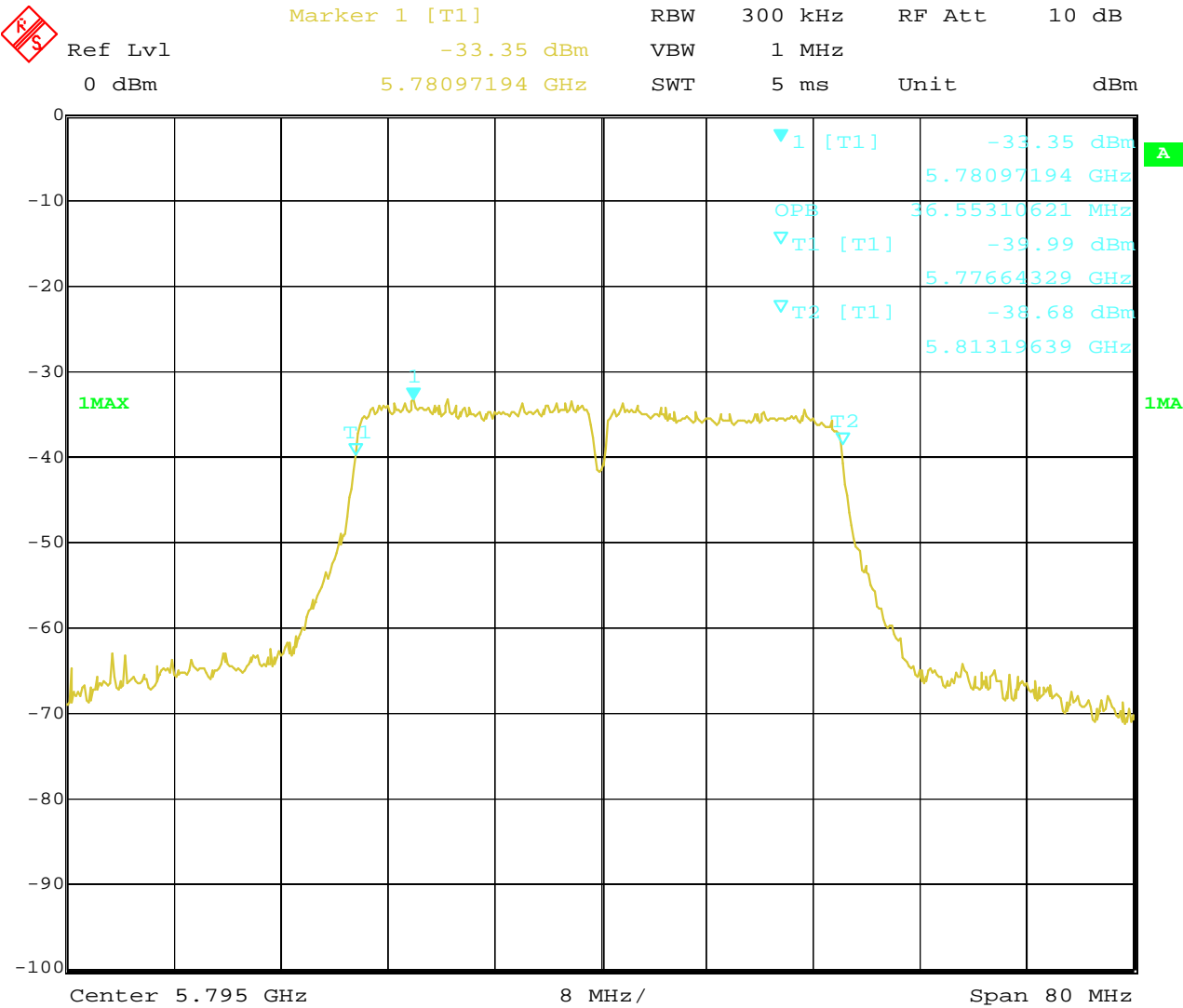
Channel 151



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Channel 159



Date: 8.JUL.2017 15:55:35

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EUT		Advertising Displayer		Model		JAR215-01	
Mode		802.11ac VHT80		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)		Pass/ Fail	
26dB Bandwidth							
42	5210	23.9	83.44	--		Pass	
99% Bandwidth							
42	5210	23.9	75.75	--		Pass	

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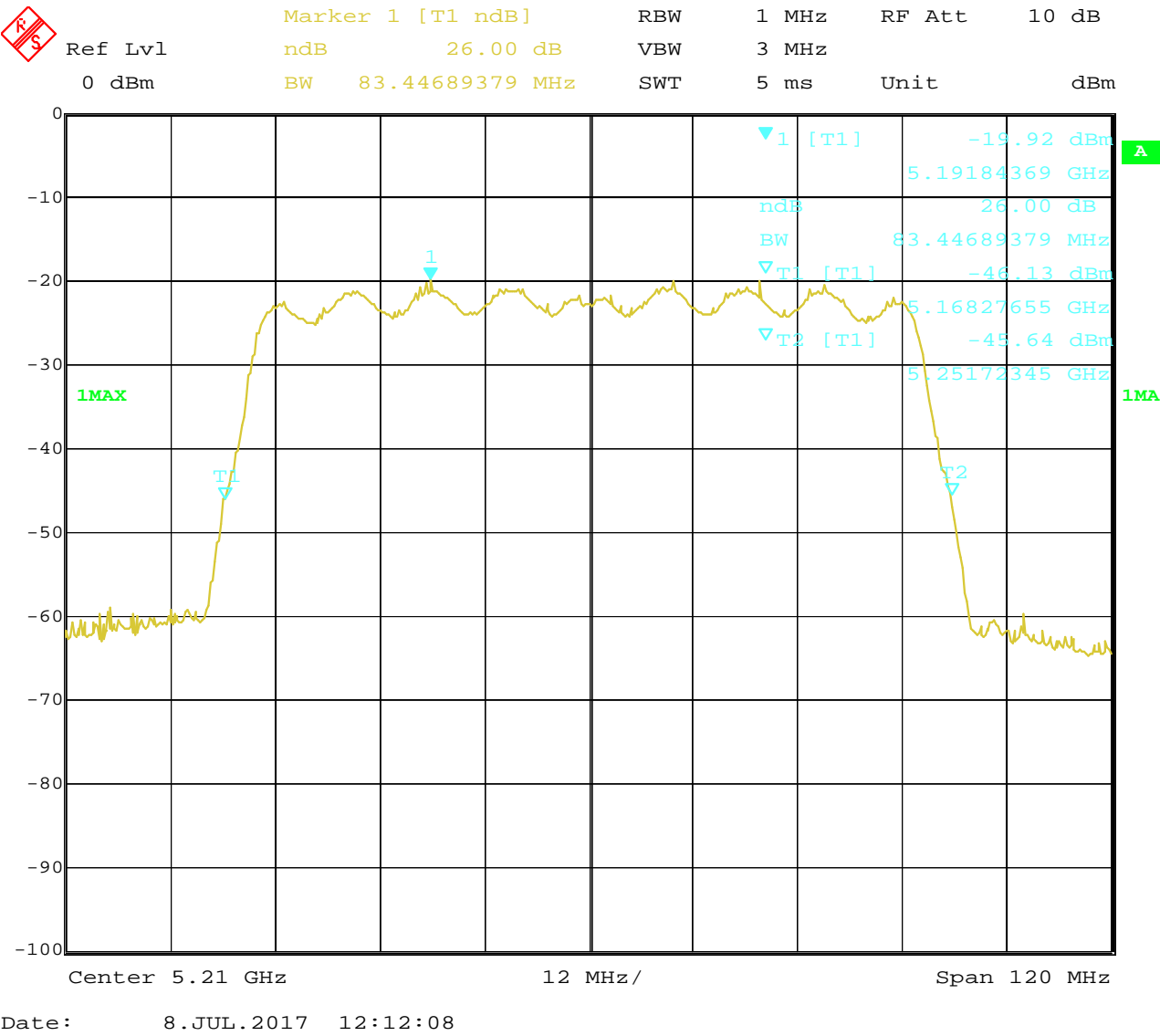




Test Configure

26dB Bandwidth

Channel 42



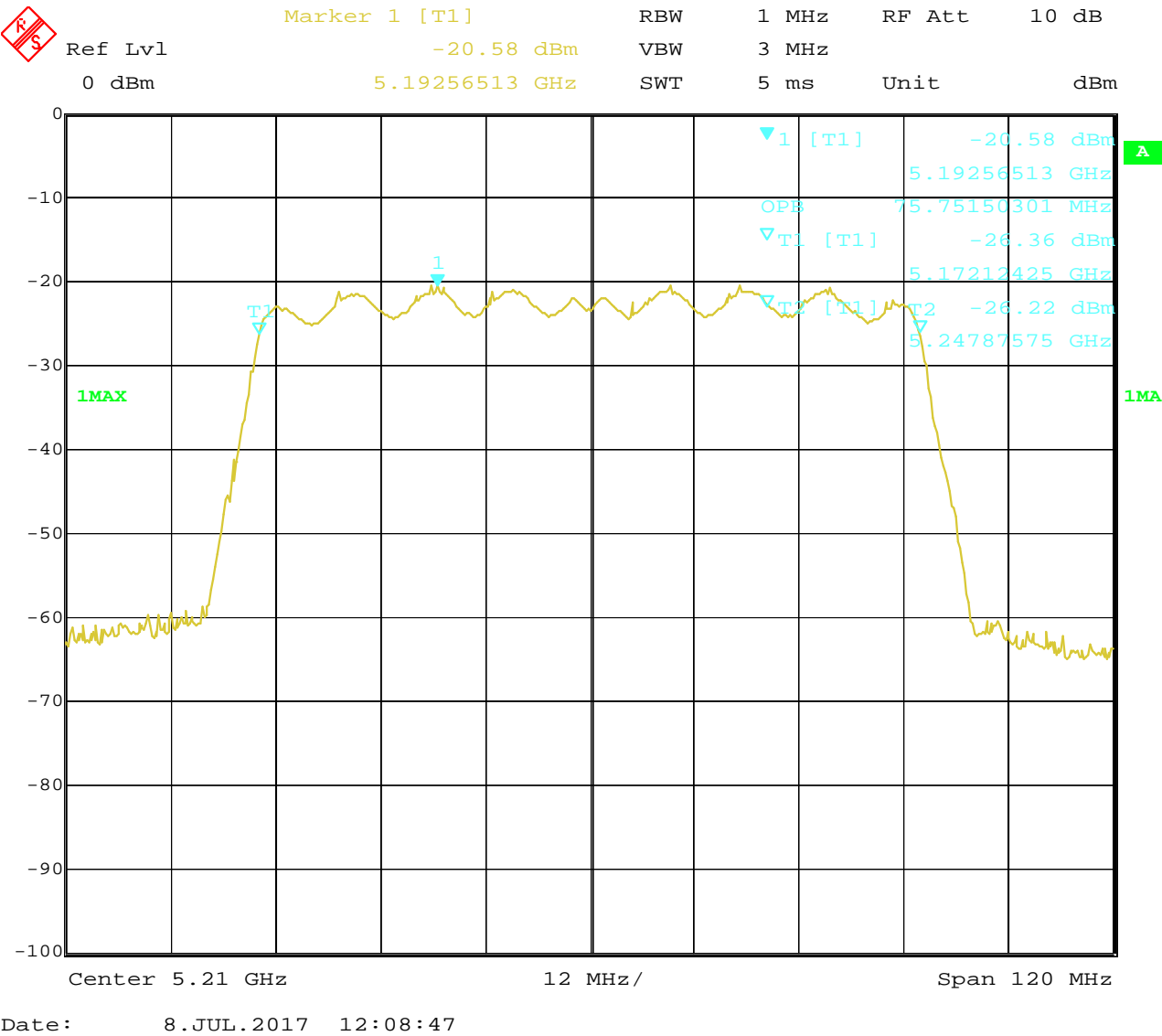
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Test Configure

99% Bandwidth

Channel 42



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EUT		Advertising Displayer		Model	JAR215-01
Mode		802.11ac VHT80		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
155	5775	23.9	82.73	--	Pass
<b>6dB Bandwidth</b>					
155	5775	23.9	75.27	0.5	Pass
<b>99% Bandwidth</b>					
155	5775	23.9	75.75	--	Pass

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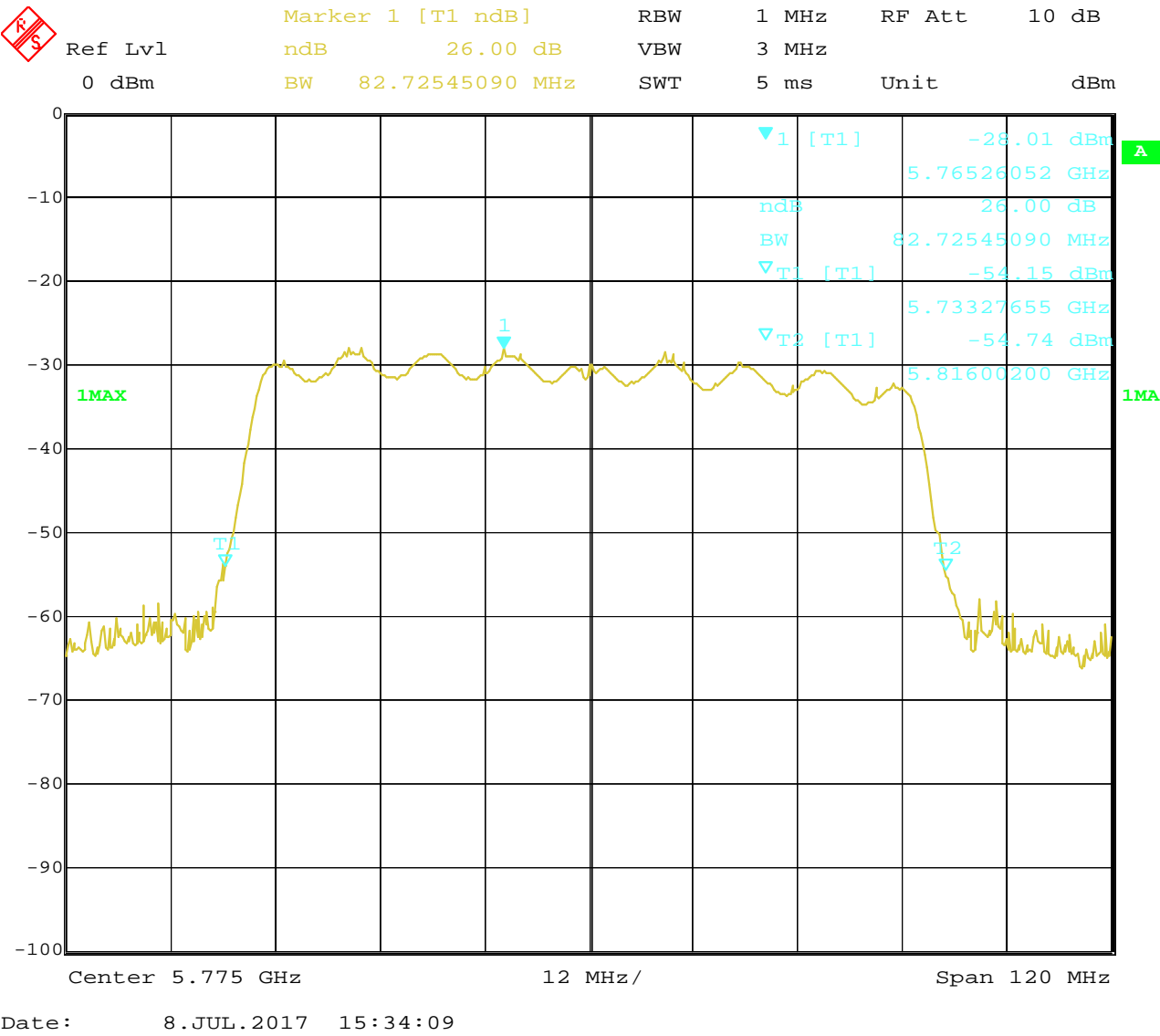
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Test Configure

26dB Bandwidth

Channel 155

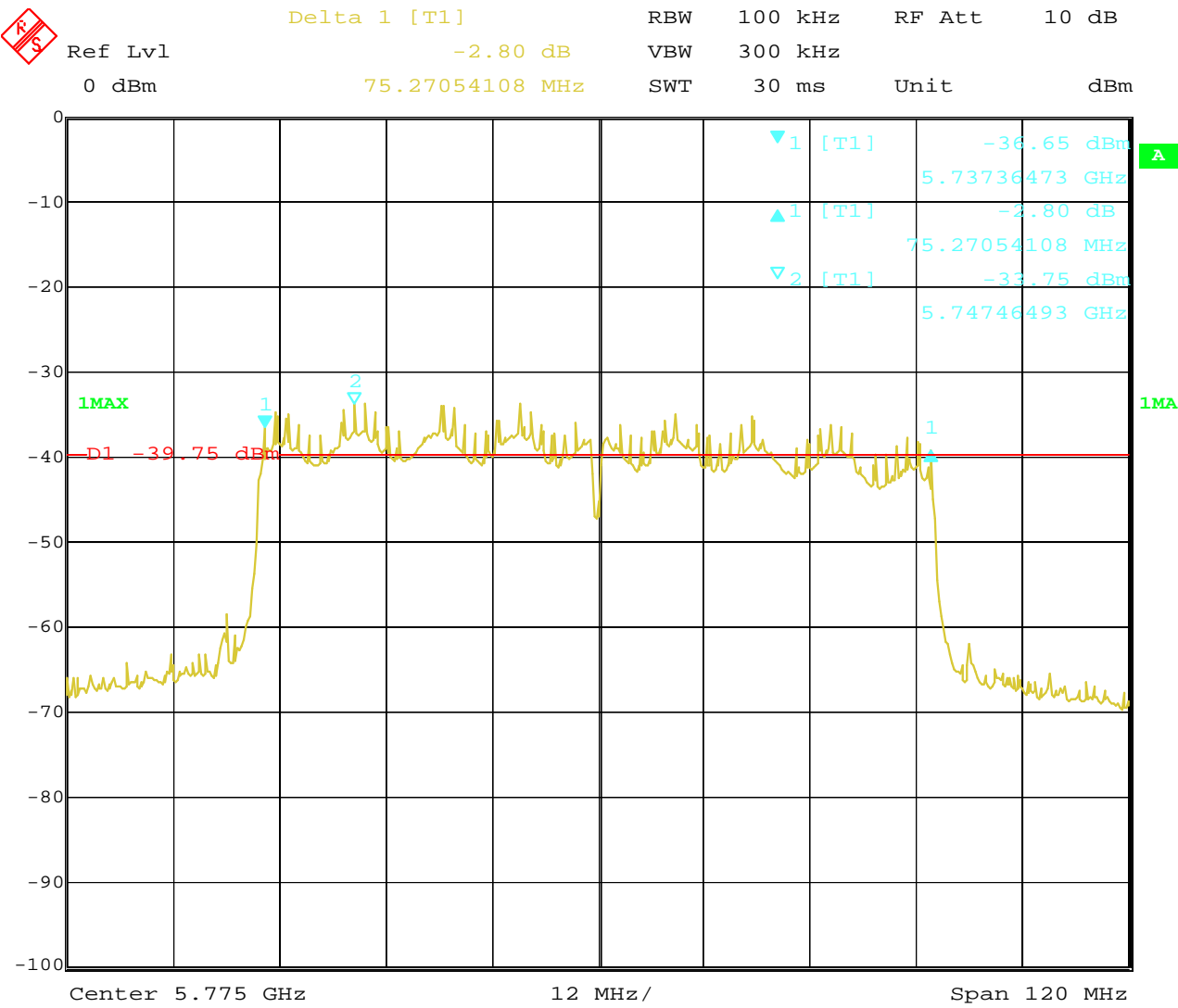


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6dB Bandwidth

Channel 155



Date: 8.JUL.2017 15:25:23

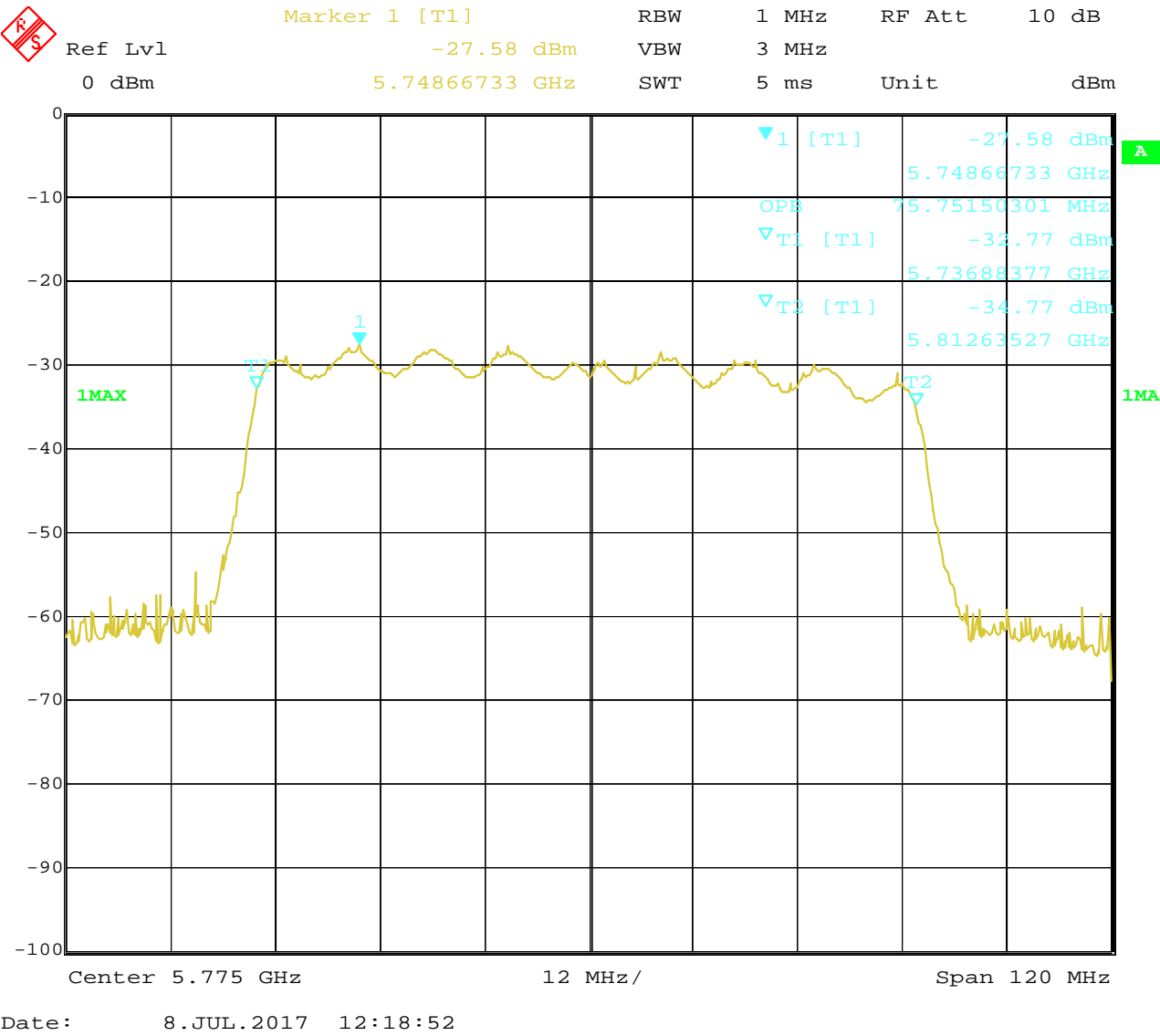
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Test Configure

99% Bandwidth

Channel 155

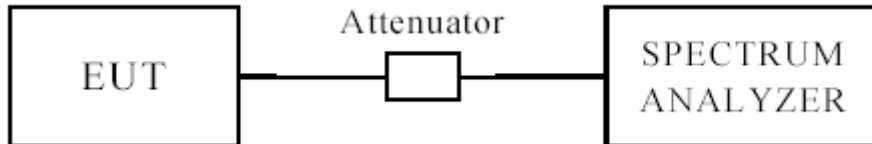


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## 8.0 Peak Transmit Power Measurement

### 8.1 Test Setup



### 8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) $\leq$ (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	--		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

### 8.3 Test Procedure

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

**Note: the average power was measured**

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#### 8.4 Test Results

EUT	Advertising Displayer	Model	JAR215-01	
Mode	802.11a	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Average Power Output (dBm)	Limit (dBm)	Pass/ Fail
36	5180	5.87	24	Pass
40	5200	5.31	24	Pass
48	5240	4.18	24	Pass
149	5745	-3.04	30	Pass
153	5765	-2.67	30	Pass
161	5805	-1.44	30	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH36, CH40, CH48, CH149, CH153 and CH161

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	Advertising Displayer	Model	JAR215-01		
Mode	802.11n HT20	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	Average Power Output (dBm)	Limit (dBm)	Pass/ Fail	
36	5180	5.40	24	Pass	
40	5200	4.89	24	Pass	
48	5240	3.72	24	Pass	
149	5745	-3.02	30	Pass	
153	5765	-2.97	30	Pass	
161	5805	-1.20	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 (6.5Mbps) for CH36, CH40, CH48, CH149, CH153 and CH161

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	Advertising Displayer	Model	JAR215-01		
Mode	802.11n HT40	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	Average Power Output (dBm)	Limit (dBm)	Pass/ Fail	
38	5190	4.87	24	Pass	
46	5230	3.53	24	Pass	
151	5755	-3.16	30	Pass	
159	5795	-2.05	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 (13.5Mbps) for CH38, CH46, CH151, CH159 and CH161

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT	Advertising Displayer	Model	JAR215-01		
Mode	802.11ac VHT80	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	Average Power Output (dBm)	Limit (dBm)	Pass/ Fail	
42	5210	4.90	24	Pass	
155	5775	-1.75	30	Pass	

Note: 1. At final test to get the worst-case emission at 23.9Mbps for CH42 and CH155

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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

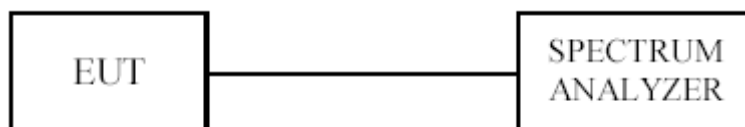
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## 9. Power Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	--		30dBm/500kHz

### 9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz.
3. Set the VBW =3MHz.
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
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.

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#### 9.4 Test Result

EUT	Advertising Displayer	Model	JAR215-01		
Mode	802.11a 6Mbps	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	Final Power Spectral Density (dBm)	Limit (dBm)	Pass/ Fail	
36	5180	-6.61	11	Pass	
40	5200	-6.61	11	Pass	
48	5240	-7.42	11	Pass	
149	5745	-16.05	30	Pass	
153	5765	-16.44	30	Pass	
161	5805	-15.70	30	Pass	

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

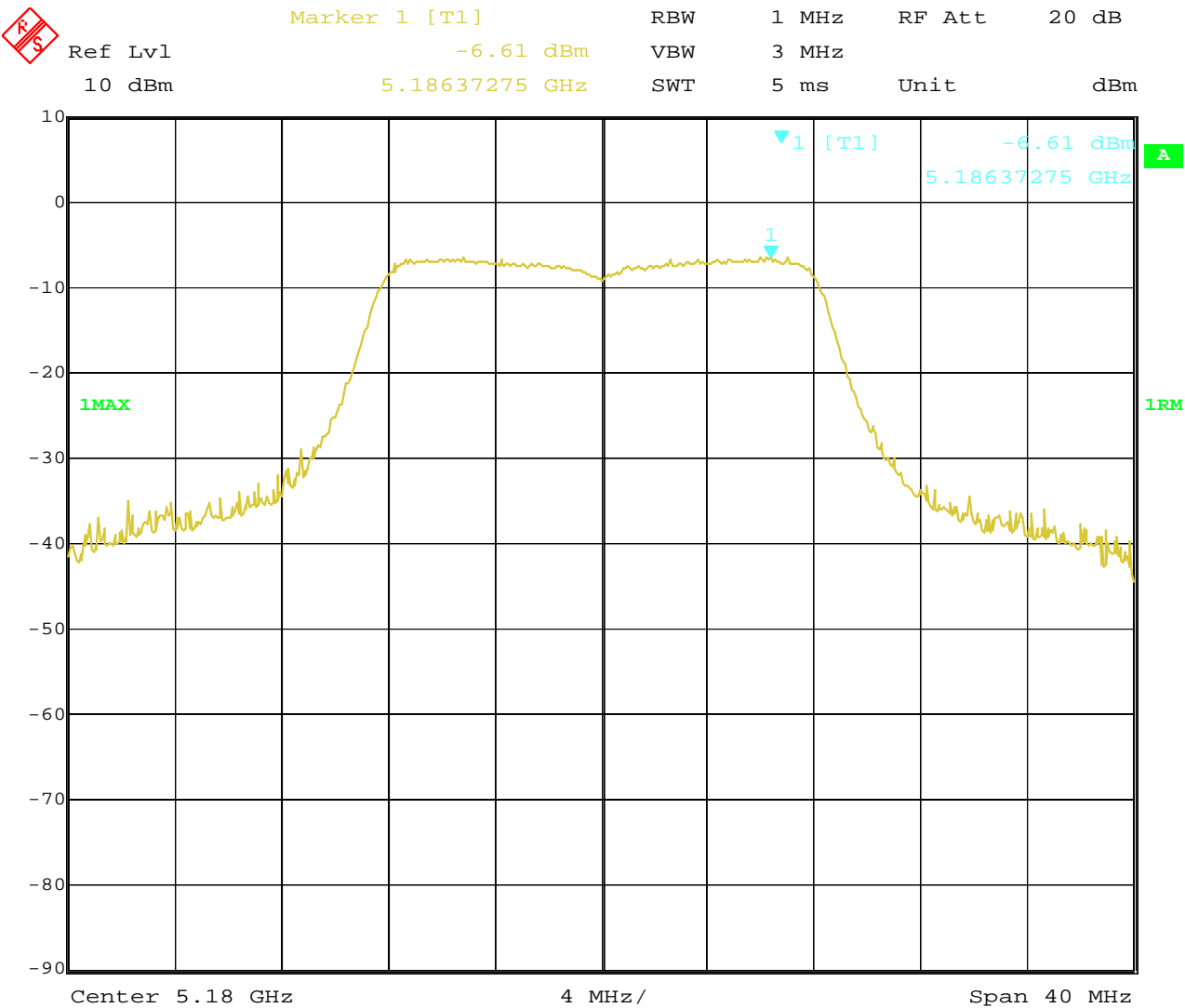
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9.5 Plots of Power Spectral Density Measurement

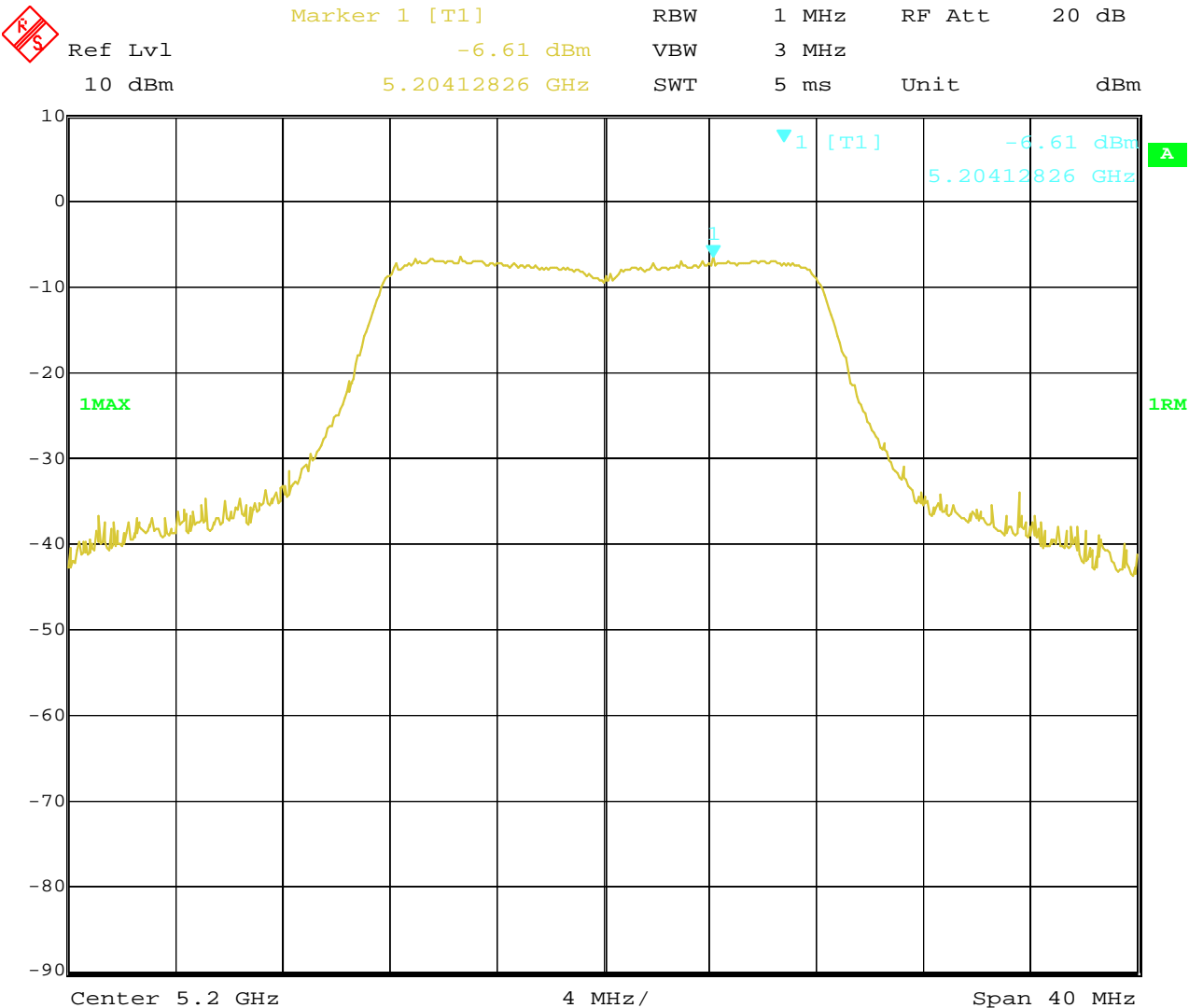
1.802.11a at 6Mbps of CH36



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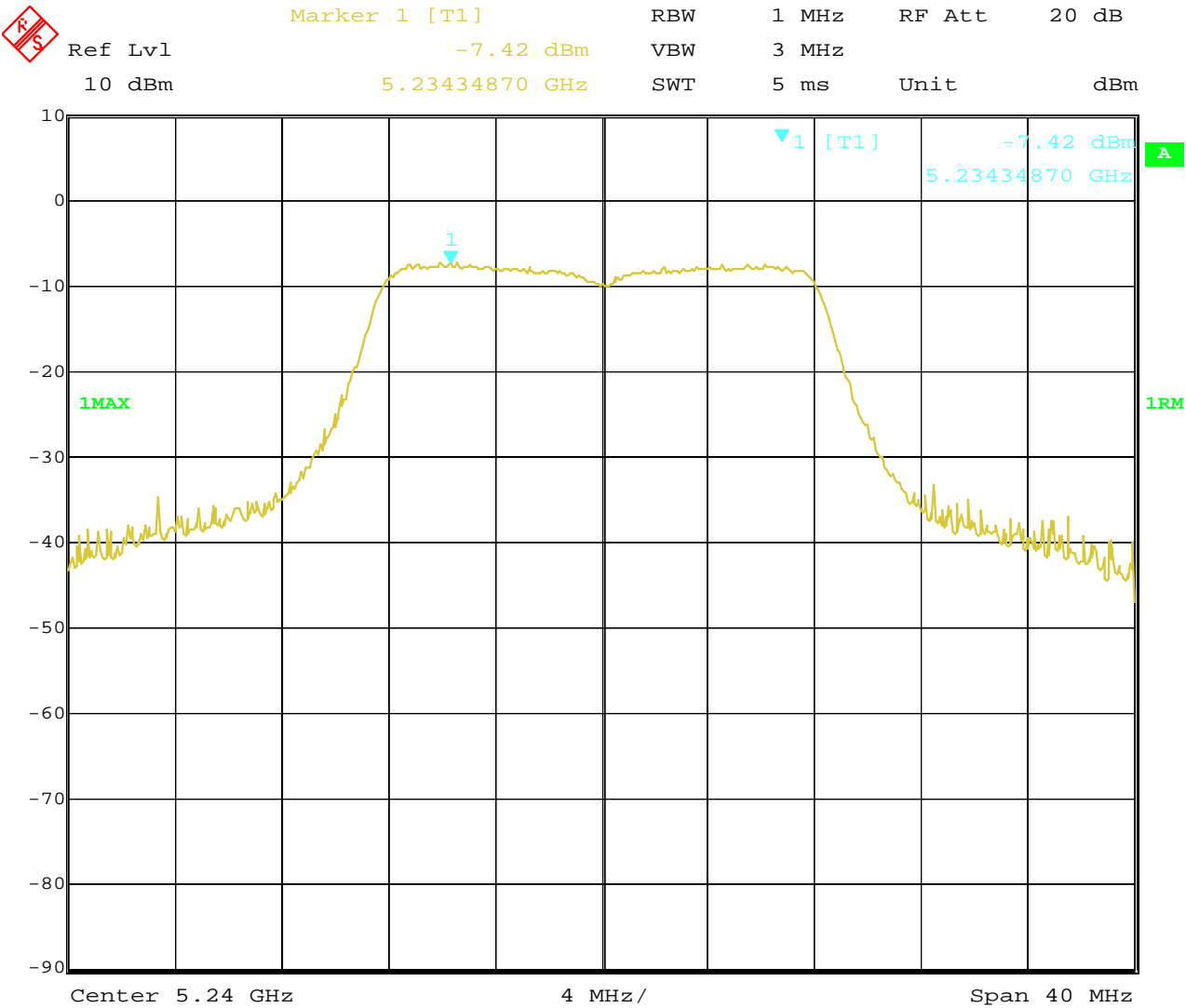
2.802.11a at 6Mbps of CH40



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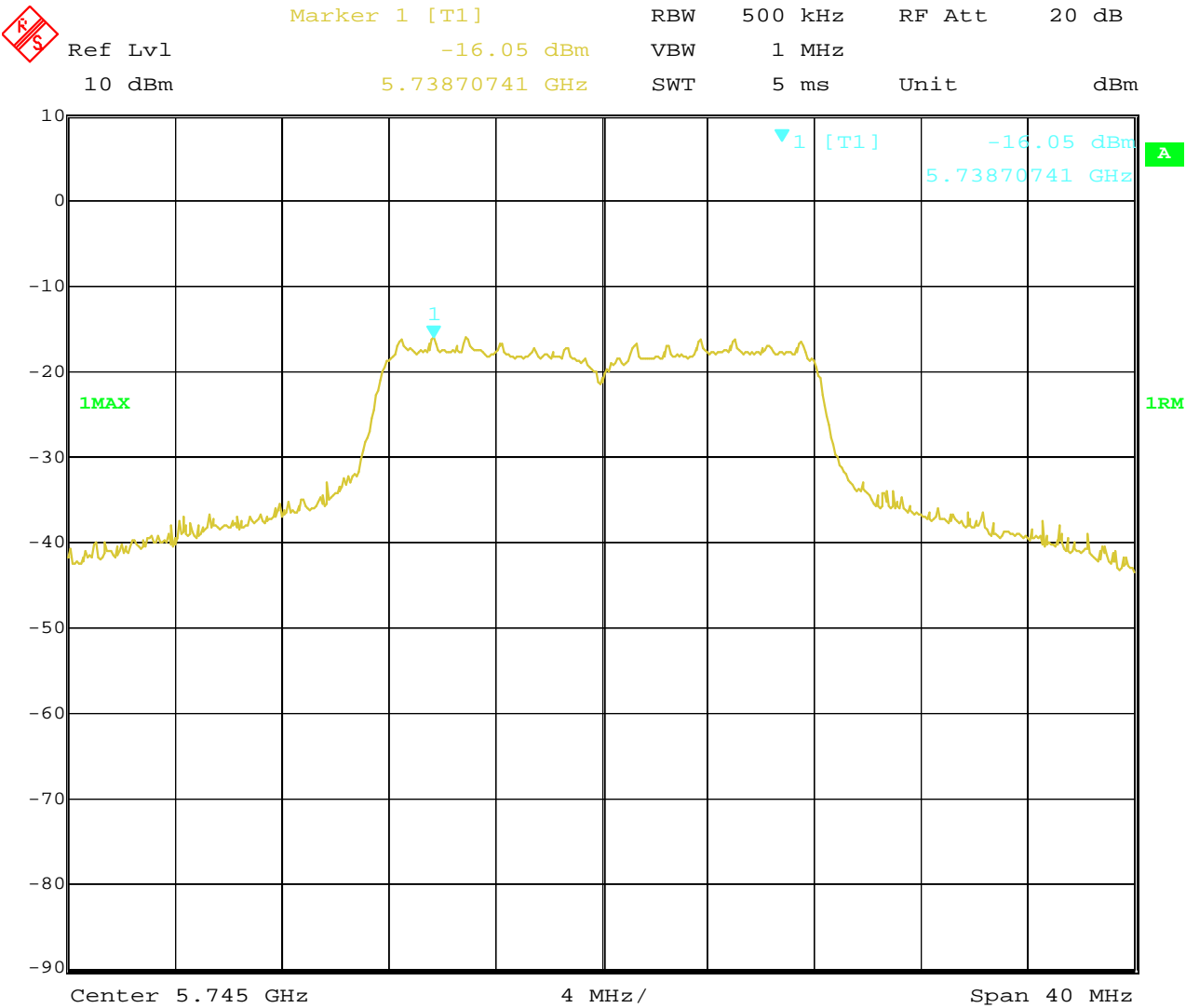
3.802.11a at 6Mbps of CH48



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4.802.11a at 6Mbps of CH149

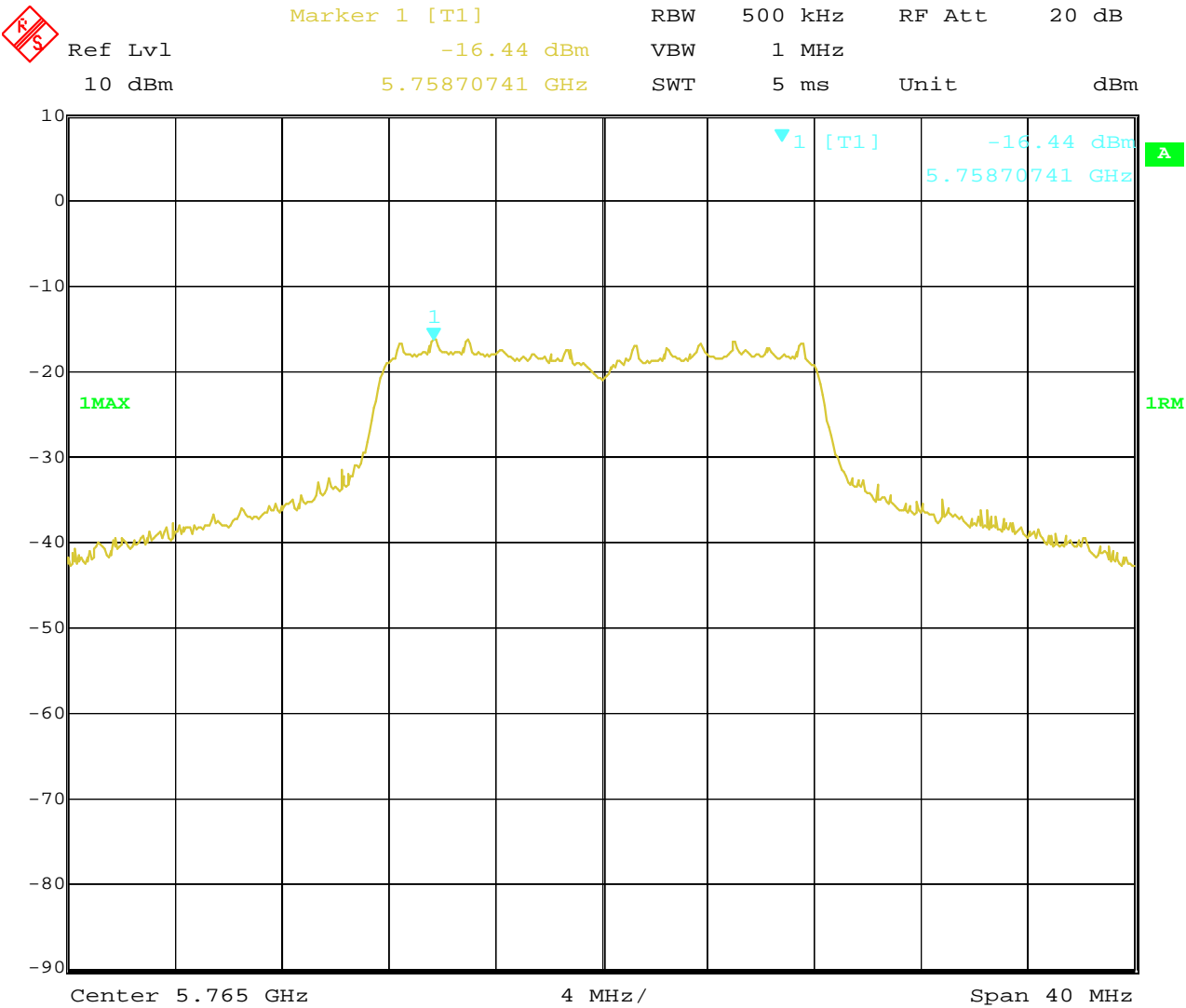


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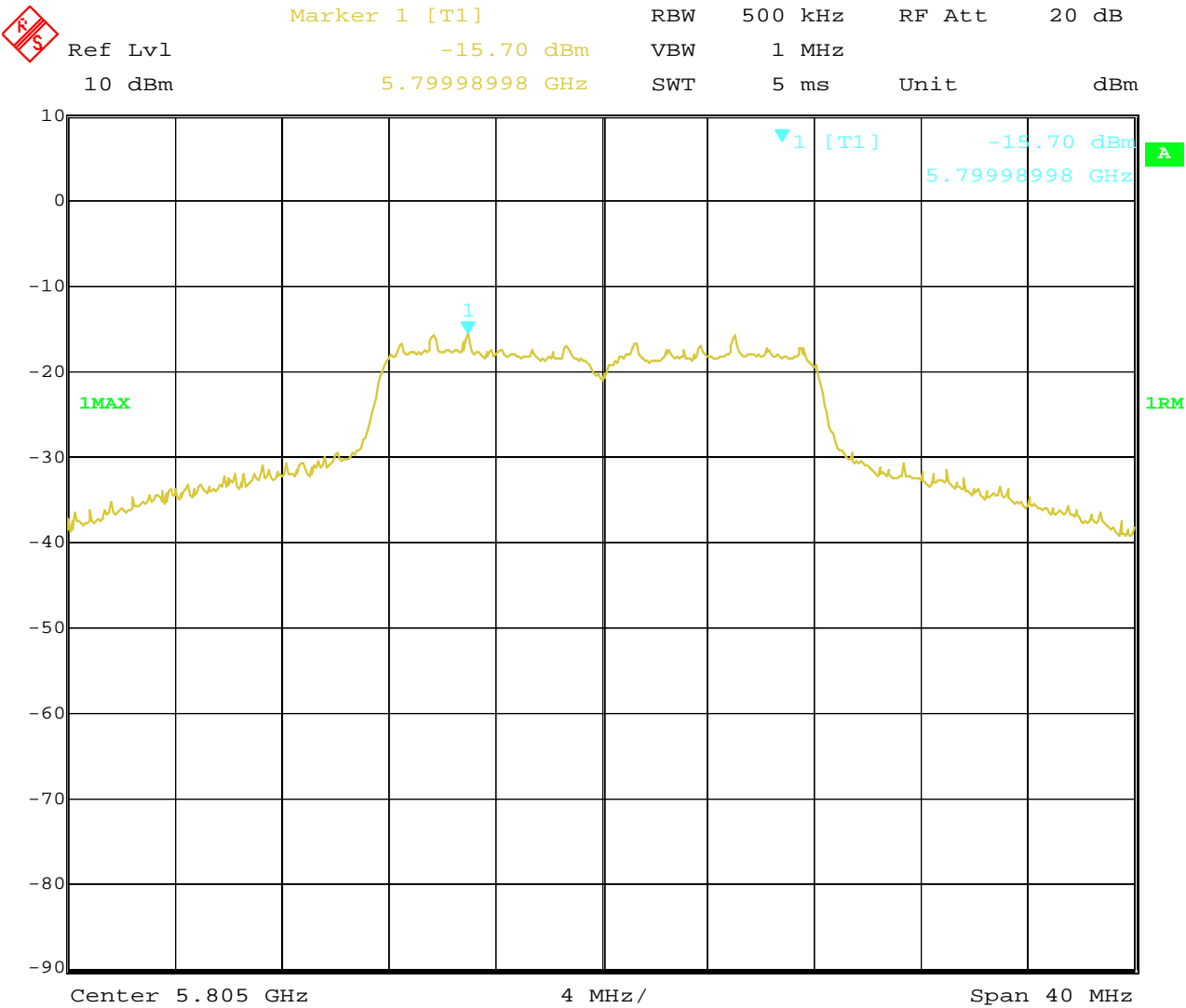
5.802.11a at 6Mbps of CH153



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6.802.11a at 6Mbps of CH161



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EUT		Advertising Displayer	Model	JAR215-01	
Mode		802.11n HT20 mcs0	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)		Final Power Spectral Density (dBm)	Limit (dBm)	Pass/ Fail
36	5180		-6.83	11	Pass
40	5200		-7.28	11	Pass
48	5240		-7.78	11	Pass
149	5745		-15.71	30	Pass
153	5765		-15.96	30	Pass
161	5805		-16.13	30	Pass

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

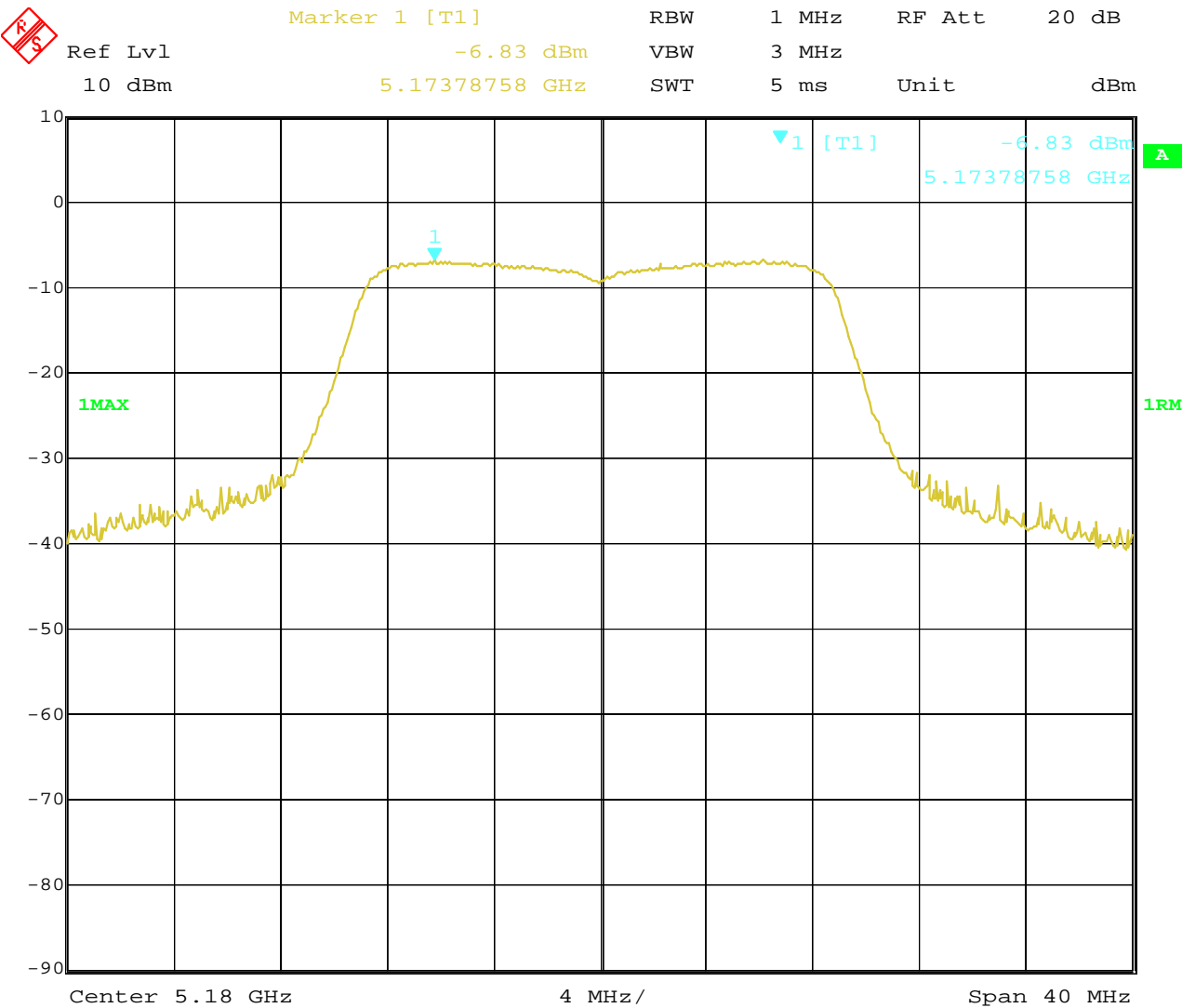
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Test Plots

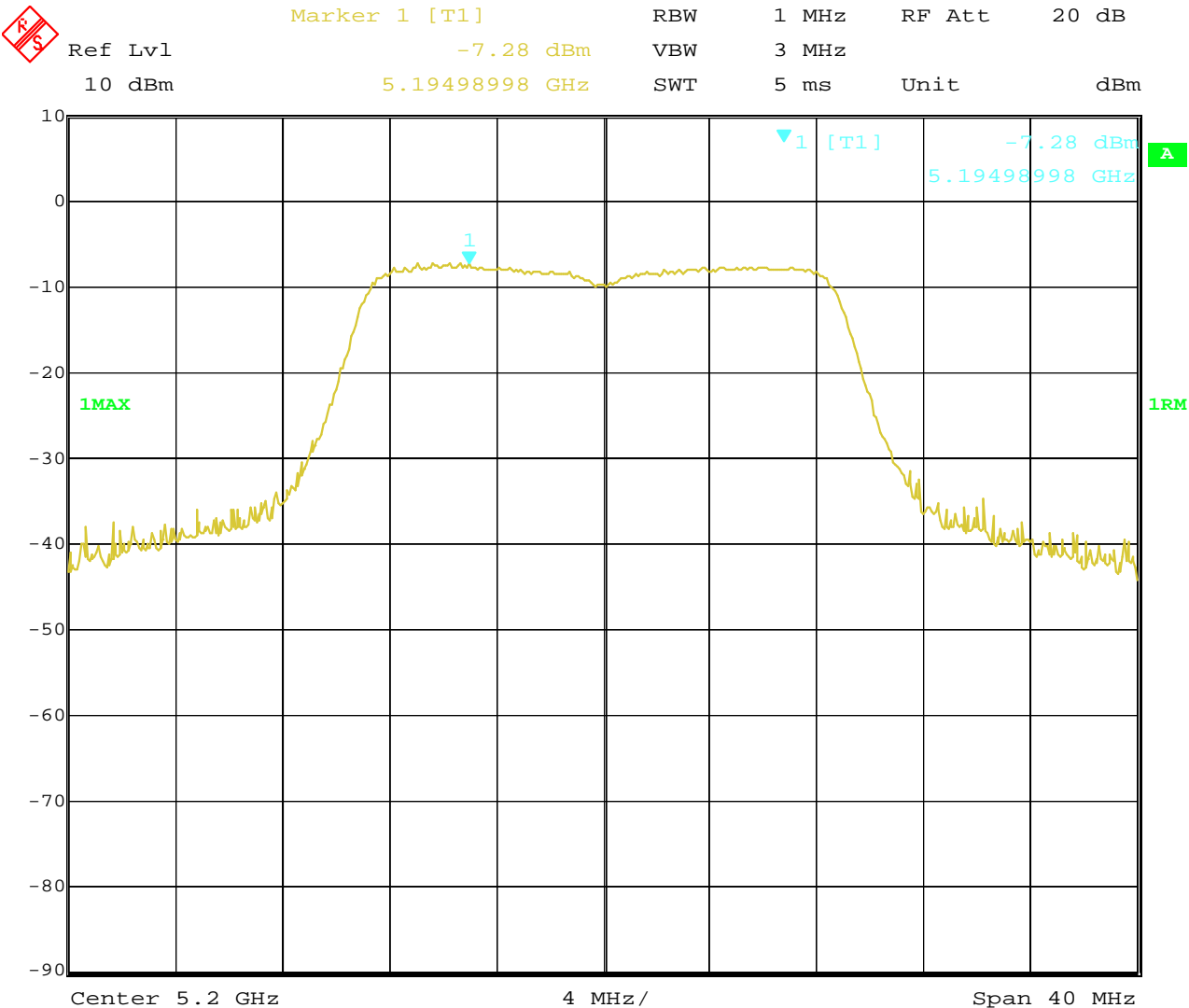
1.802.11n at mcs0 of CH36



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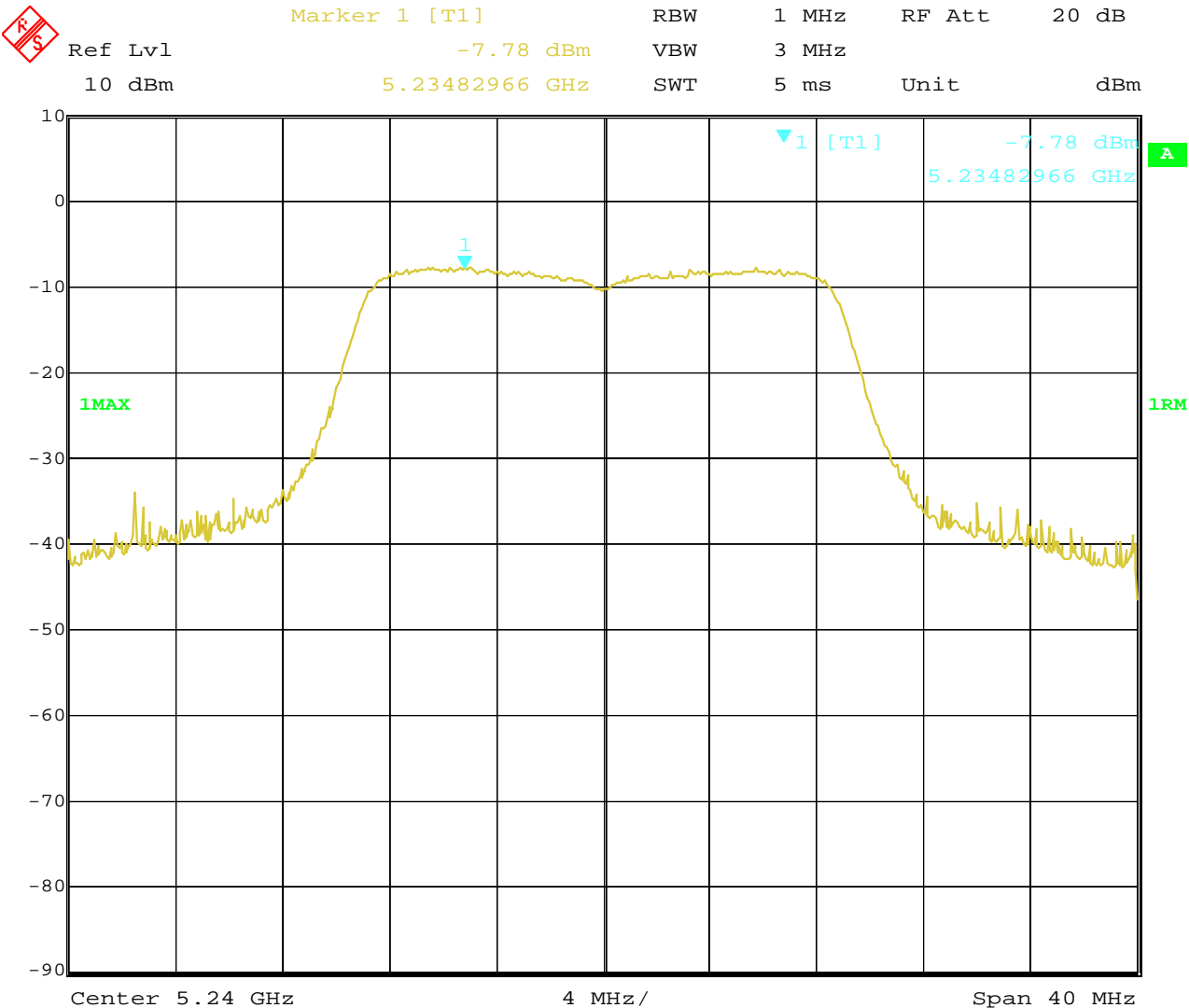
2.802.11n at mcs0 of CH40



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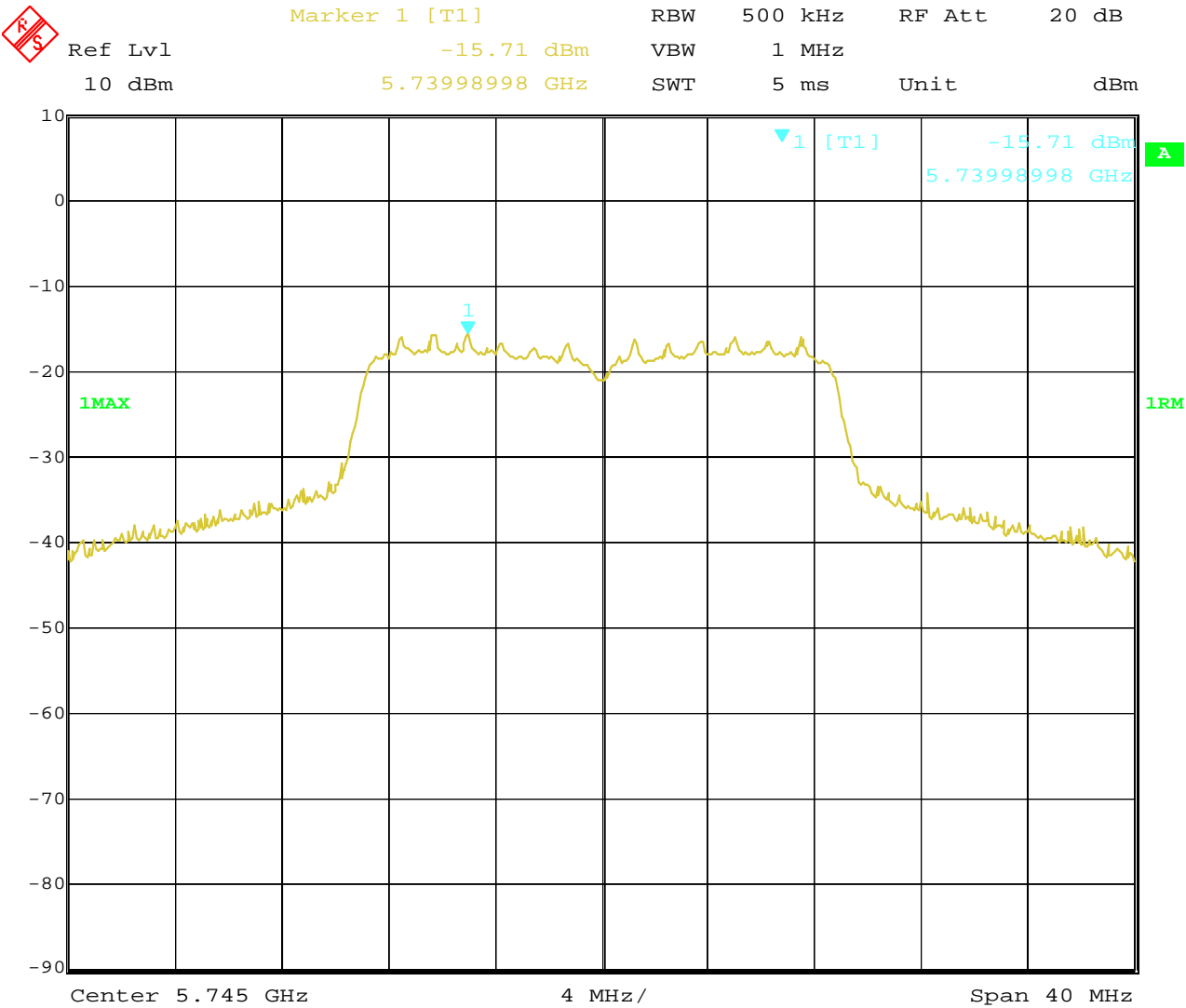
3.802.11n at mcs0 of CH48



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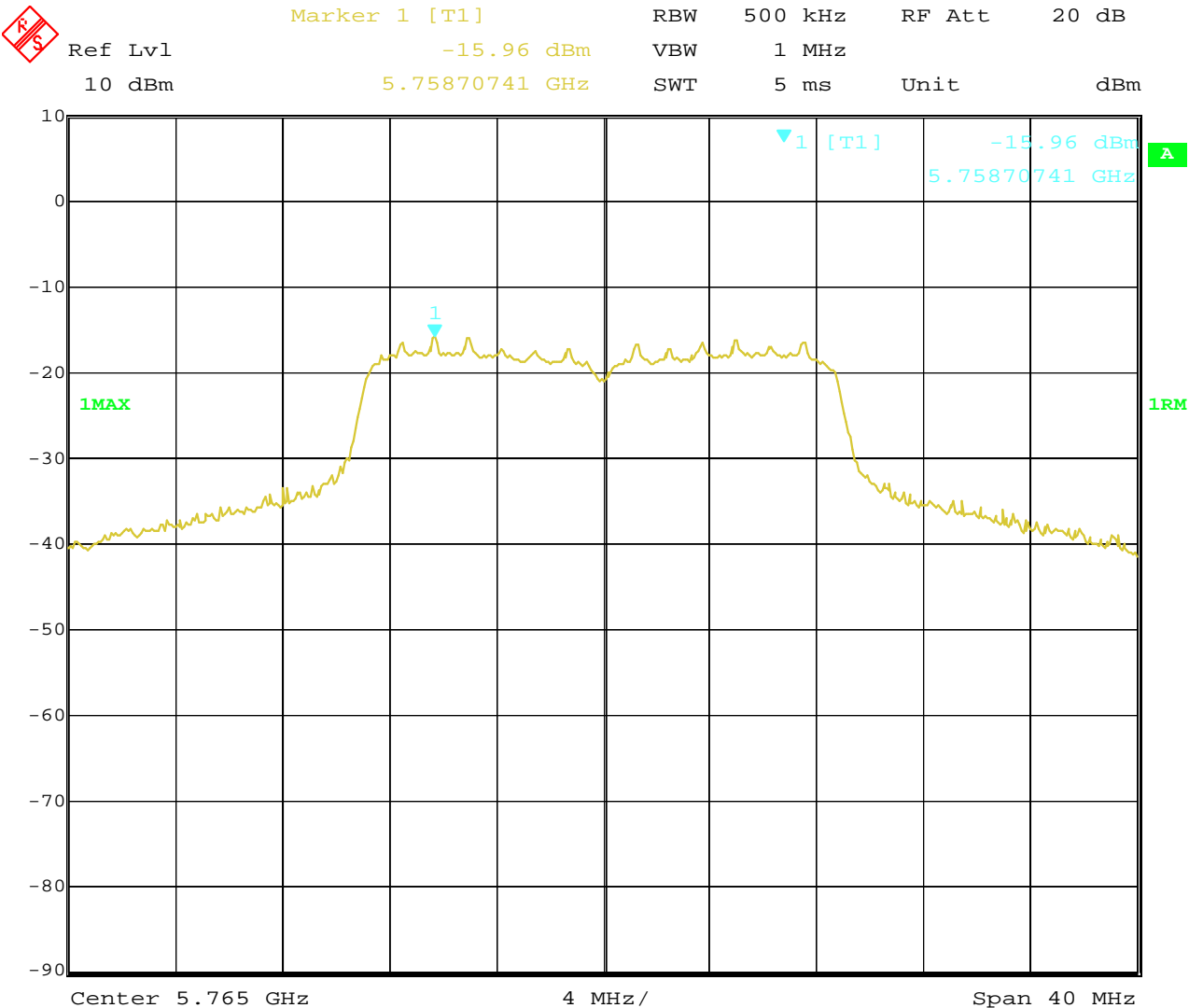
4.802.11n at mcs0 of CH149



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5.802.11n at mcs0 of CH153



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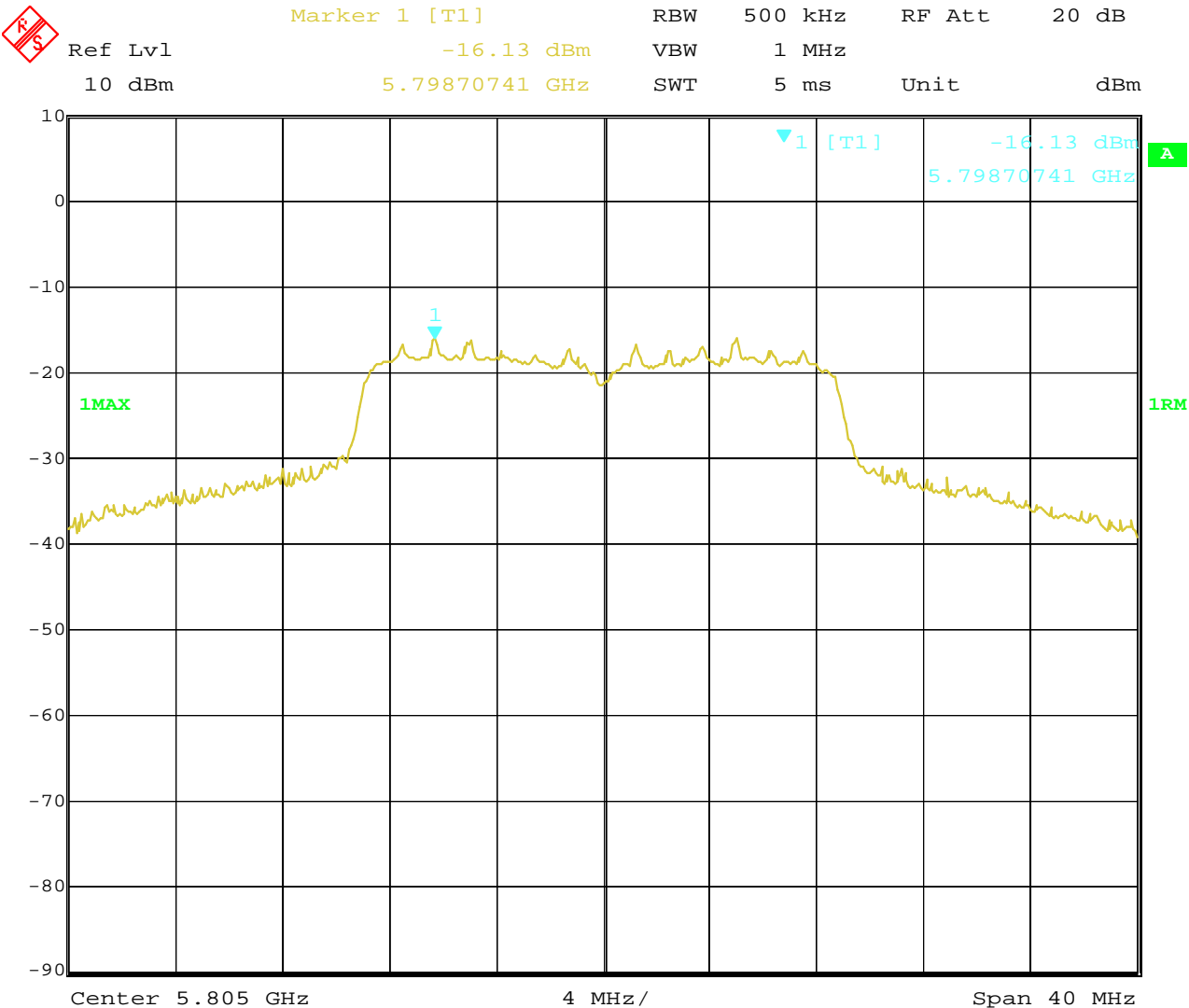
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6.802.11n at mcs0 of CH161



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EUT		Advertising Displayer	Model	JAR215-01	
Mode		802.11n HT40 mcs0	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)		Final Power Spectral Density (dBm)	Limit (dBm)	Pass/ Fail
38	5190		-10.99	11	Pass
46	5230		-11.28	11	Pass
151	5755		-19.41	30	Pass
159	5795		-19.61	30	Pass

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

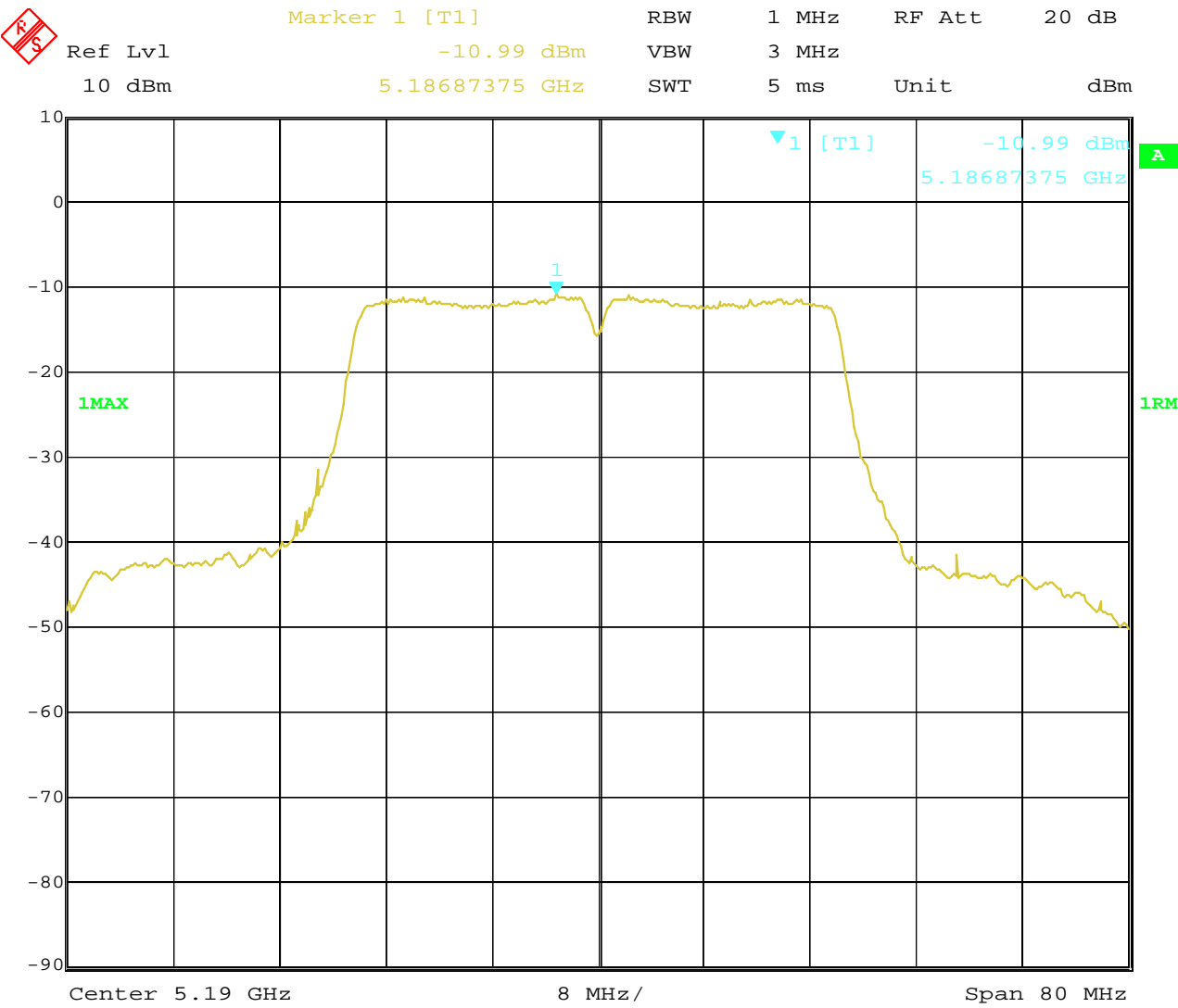
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Test Plots

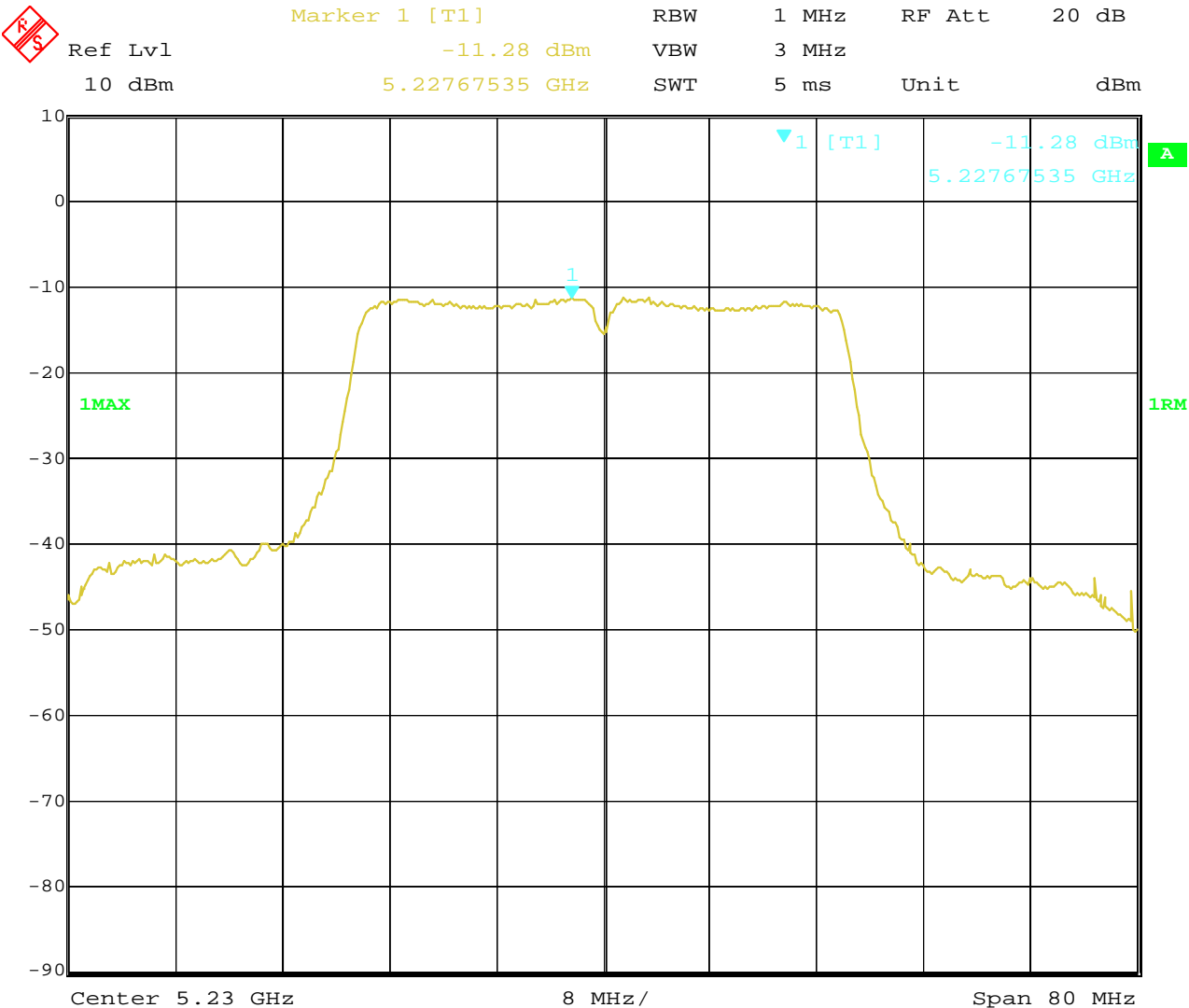
1.802.11n HT40 at mcs0 of CH38



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2.802.11n HT40 at mcs0 of CH46



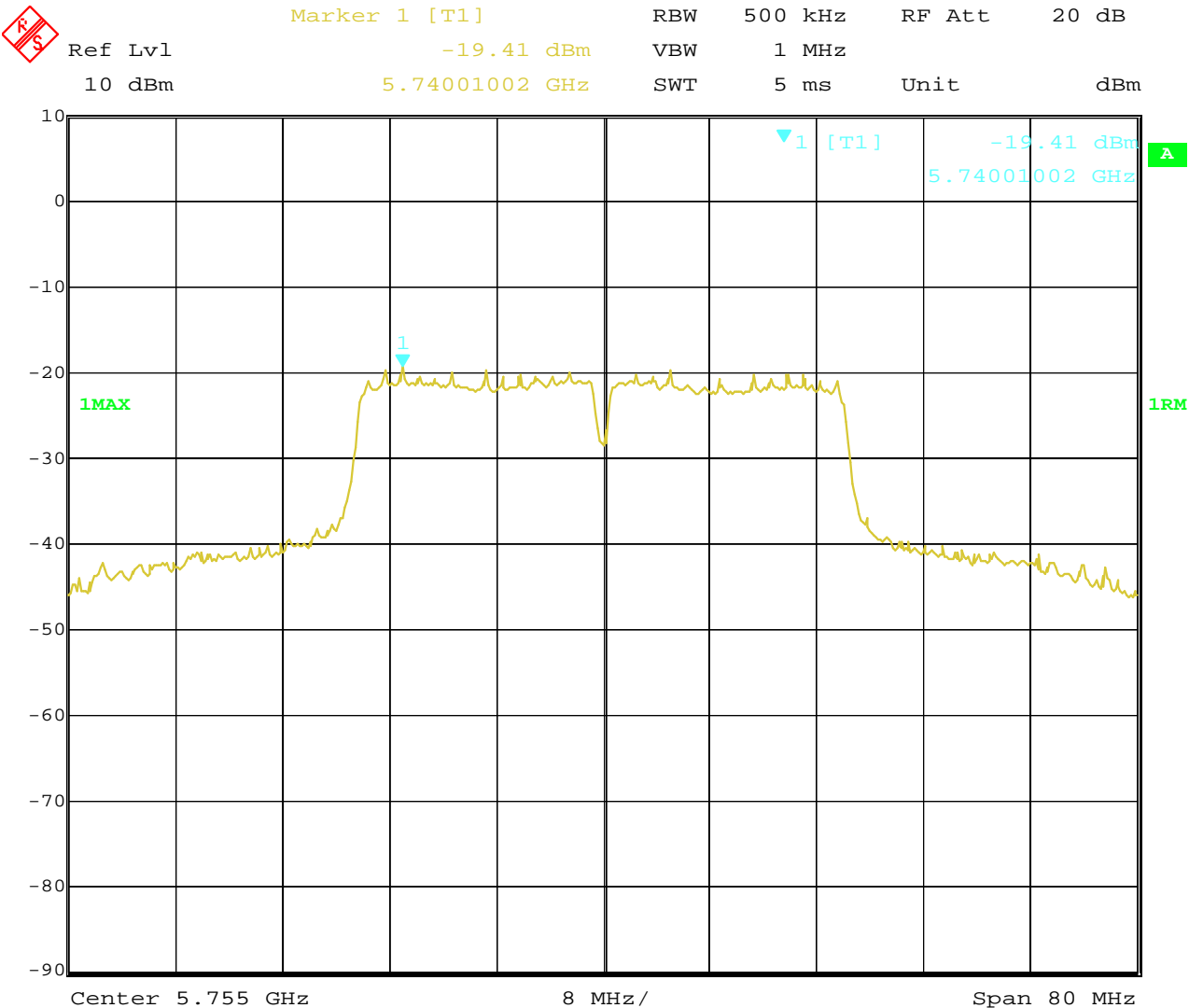
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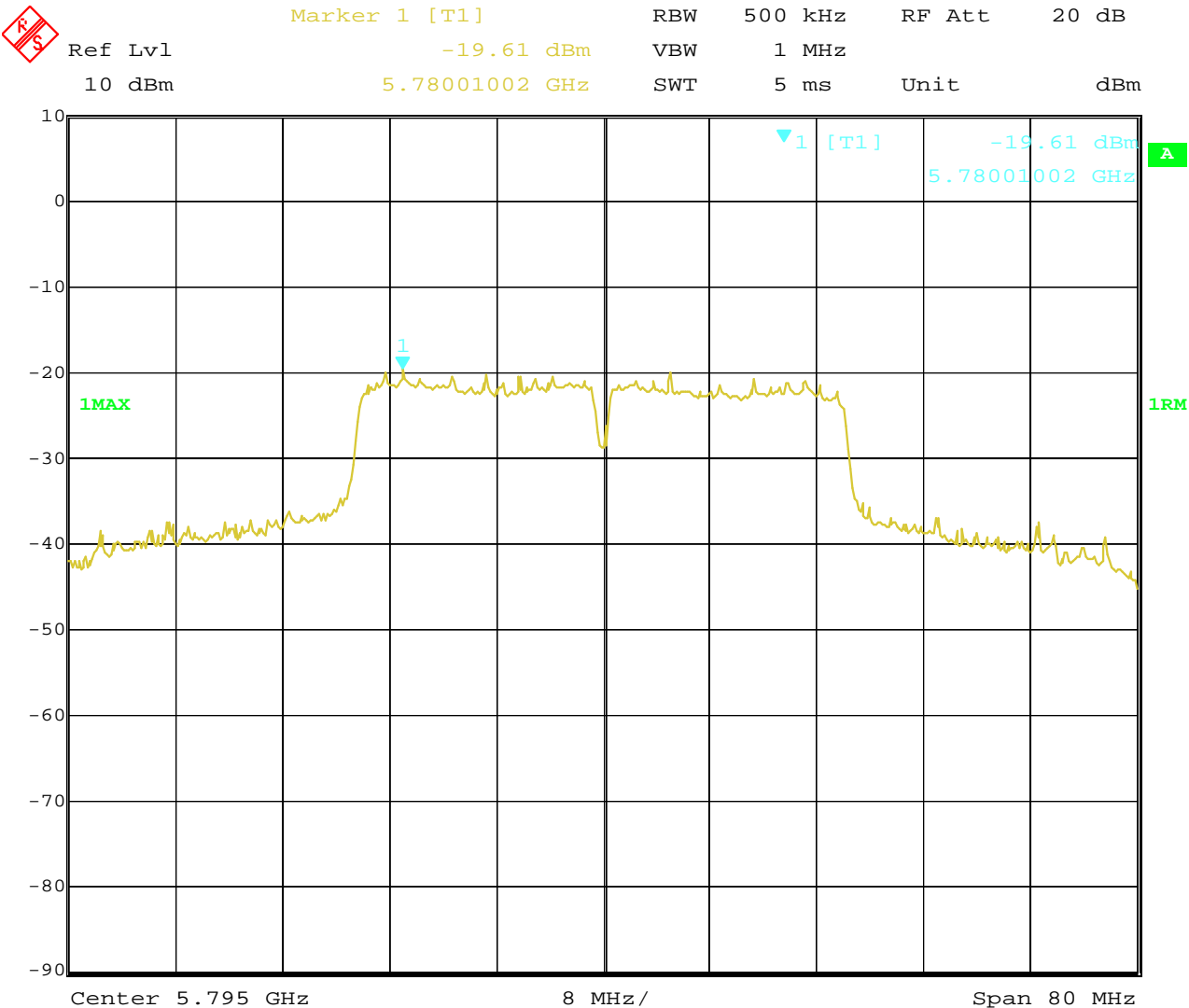
3.802.11n HT40 at mcs0 of CH151



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4.802.11n HT40 at mcs0 of CH159



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EUT		Advertising Displayer	Model	JAR215-01	
Mode		802.11ac VHT80 23.9Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)		Final Power Spectral Density (dBm)	Limit (dBm)	Pass/ Fail
42	5210		-12.56	11	Pass
155	5775		-19.86	30	Pass

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

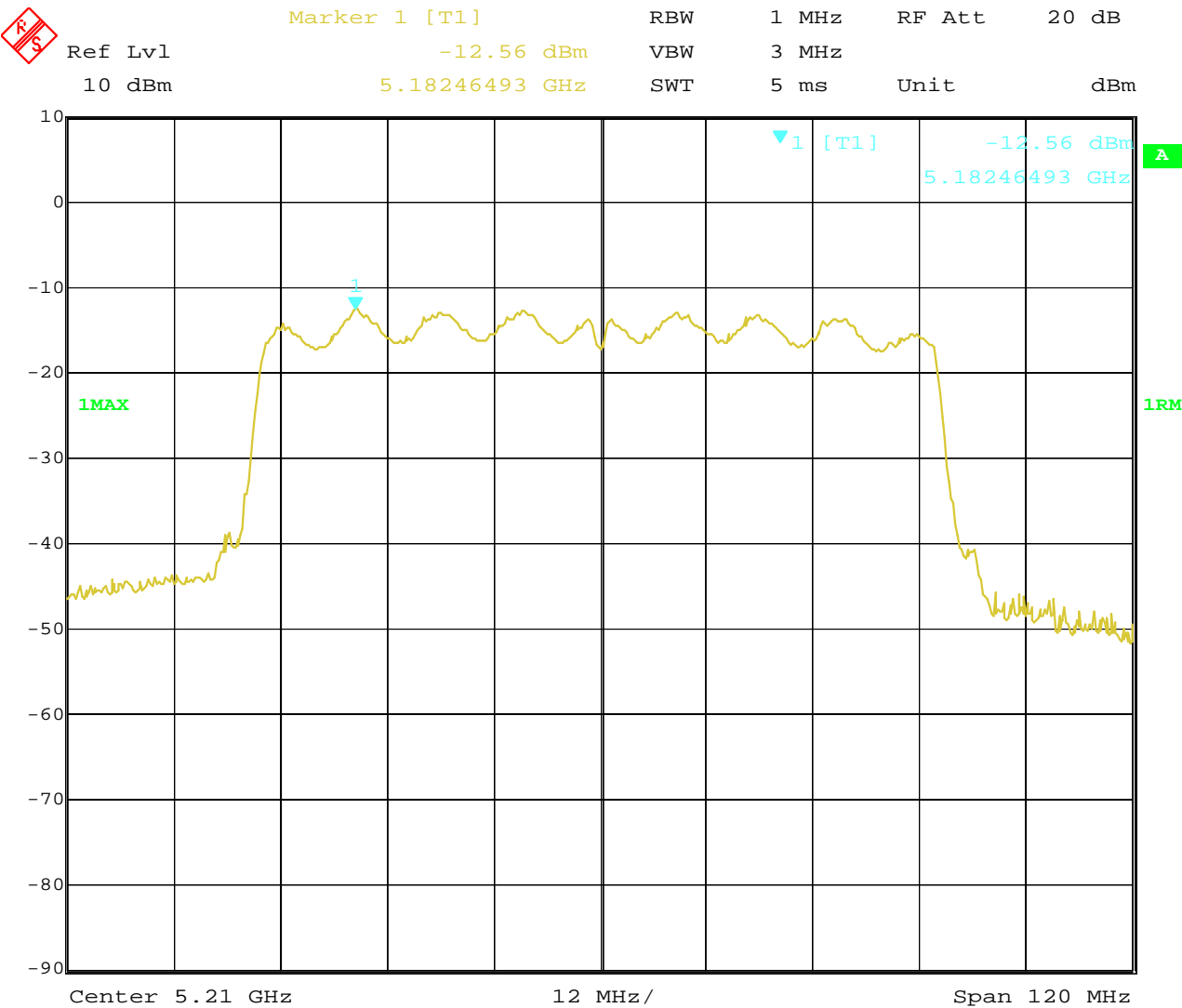
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Test Plots

1.802.11ac at 23.9Mbps of CH42

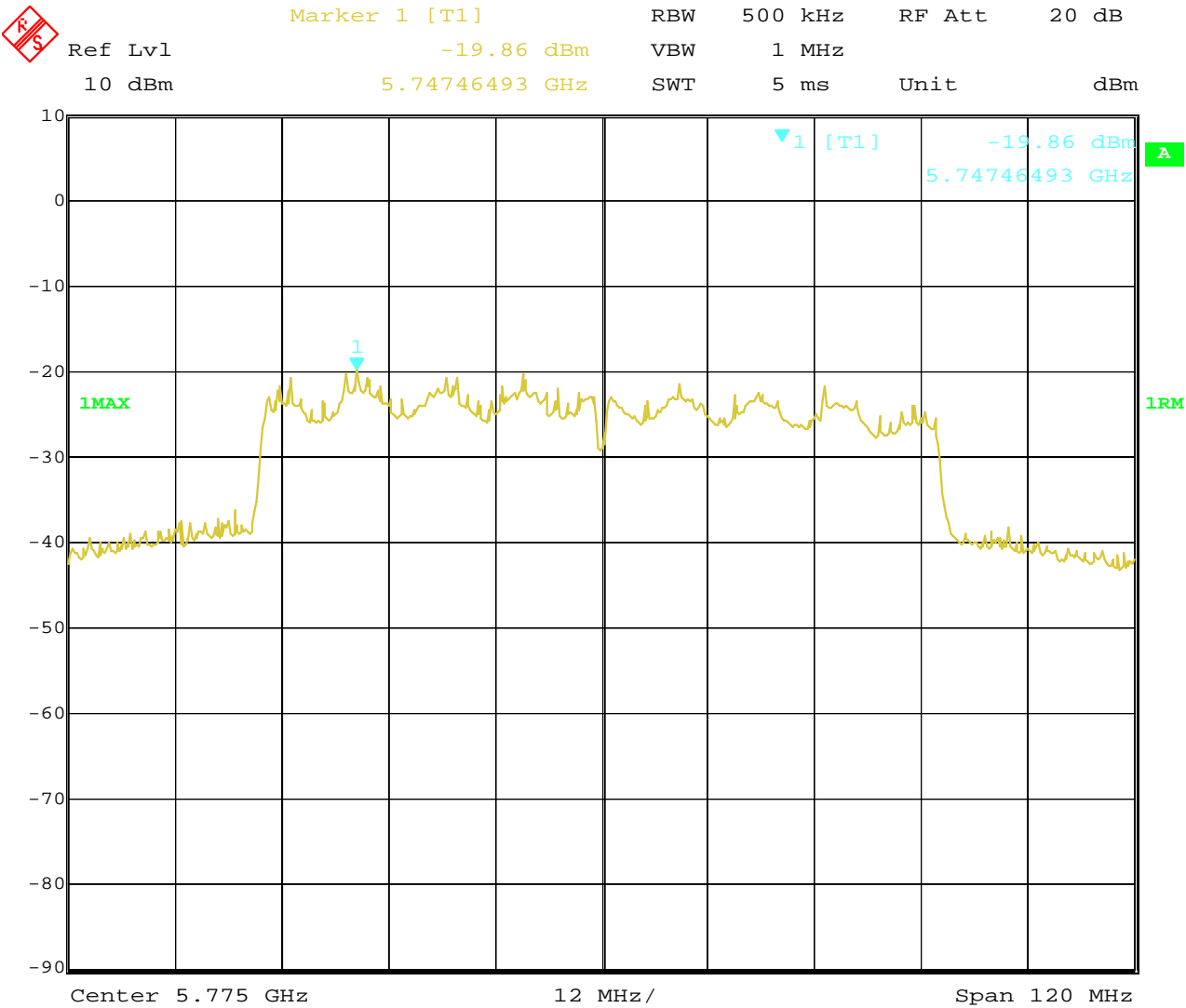


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2.802.11ac at 23.9Mbps of CH155



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## **10.0 Frequency Stability**

### **10.1 Limits of Frequency Stability Measurement**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.02\%$  of the operating frequency over a temperature variation of  $-30$  degrees to  $50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from  $85\%$  to  $115\%$  of the rated supply voltage at a temperature of  $20$  degrees

### **10.2 Test Procedure**

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at  $+20$  degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from  $85\%$  to  $115\%$  and the frequency record.

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### 11.3 Test Result

#### Channel 36 (5180MHz)

##### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
138V	5179.9867
120V	5179.9821
102V	5179.9809
Max. Deviation (MHz)	0.0191
Max. Deviation (ppm)	3.7

Rated working voltage: 120V~

##### Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5179.9811
-20	5179.9783
-10	5179.9820
0	5179.9818
10	5179.9832
20	5179.9792
30	5179.9808
40	5179.9796
50	5179.9786
Max. Deviation (MHz)	0.0217
Max. Deviation (ppm)	4.2

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### Channel 149 (5745MHz)

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
138V	5744.9767
120V	5744.9789
102V	5744.9803
Max. Deviation (MHz)	0.0233
Max. Deviation (ppm)	4.1

Rated working voltage: 120V~

#### Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5744.9758
-20	5744.9779
-10	5744.9782
0	5744.9753
10	5744.9765
20	5744.9756
30	5744.9772
40	5744.9780
50	5744.9813
Max. Deviation (MHz)	0.0247
Max. Deviation (ppm)	4.3

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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**

Integral antenna used. The maximum Gain of each antenna is 3.0 dBi for 5G band.

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## 12.0 FCC Label

### FCC ID: 2AACS-JAR215-01

**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:



FCC Label Location

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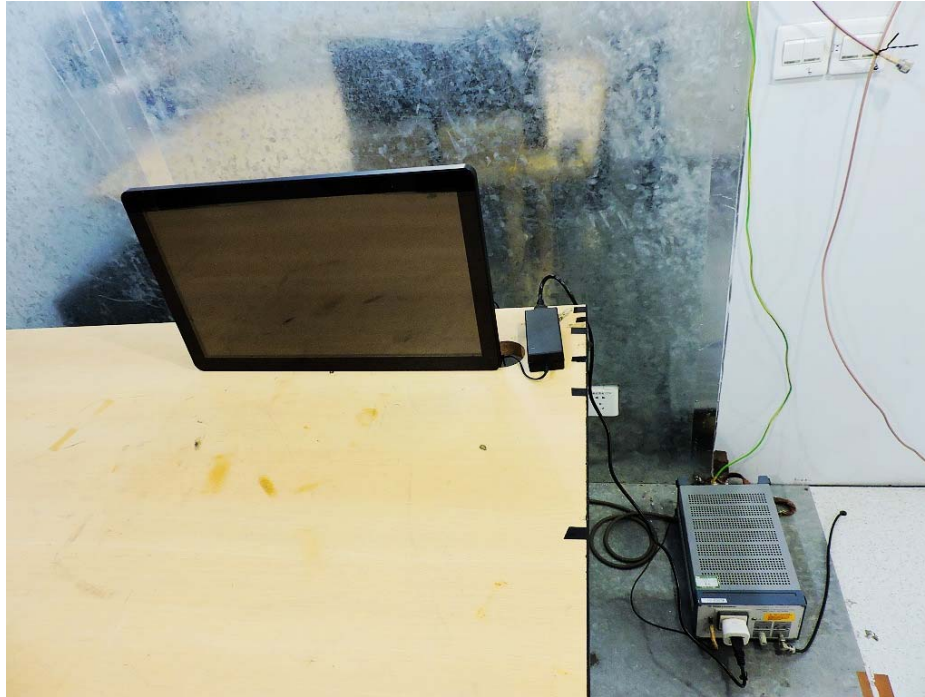
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### 13.0 Photo of testing

Conducted Emission Test Setup:



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

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**Radiated Emission Test Setup:**



**Photos of EUT**

Please see test report FCC1706166-01

**End of the report**

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