

TECHNICAL REPORT



Report No: TW2105002-02E
File reference No: 2021-06-22

Applicant: Aukey Technology Co., Ltd.

Product: wireless router

Model No: WR-AX01(see the page 4 for additional models)

Trademark: Aukey

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

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

Jack Chung

Manager

Dated: June 22, 2021

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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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: Aukey Technology Co., Ltd.
Address: No.102, Building P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang District Shenzhen, Guangdong, 518111, CN
Telephone: 18024765897
Fax: --

1.3 Description of EUT

Product: wireless router
Manufacturer: Aukey Technology Co., Ltd.
Address: No.102, Building P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang District Shenzhen, Guangdong, 518111, CN
Brand Name: Aukey
Additional Brand Name: N/A
Model Number: WR-AX01
Additional Model Number: WR-AX02, WR-AX03, WR-AX04, WR-AX05, WR-AX06, WR-AX07, WR-AX08, WR-AX09, WR-AX10, WR-AX11, WR-AX12, WR-AX13, WR-AX14, WR-AX15, WR-AX16
Hardware Version: X007 V01
Software Version: V1.0-202012261111
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
IEEE 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Frequency Band 1: 5180MHz-5240MHz;
Band 4: 5745MHz-5805MHz
Air Data Rate IEEE 802.11a: 54, 48,36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n/HT20: mcs0-mcs7
IEEE 802.11n/HT40: mcs0-mcs7

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IEEE 802.11ac: NSS1 mcs0-mcs9
 IEEE 802.11ac: NSS1 mcs0-mcs11

Antenna: Two Dipole Antennas used.
 Antenna Gain: Maximum 8.54dBi for each one
 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; NSS1 mcs0 air data rate was the worst case for 802.11ac mode; NSS1 mcs0 air data rate was the worst case for 802.11ax mode.

Frequency Selection By software
 Input Voltage: DC12V, 1A
 Power Adapter Model: SS120100-US; Input: 100-240V~, 50/60Hz, 0.5A; Output: DC12V, 1A

Each Channel Operation Frequency

Band 1					
802.11a / 11n HT20 / 802.11ac VHT20 802.11ax HEW20		802.11n HT40 / 802.11acVHT40 802.11ax HEW40		802.11ac VHT80 802.11ax HEW80	
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 802.11ax HEW20		802.11n HT40 / 802.11acVHT40 802.11ax HEW40		802.11ac VHT80 802.11ax HEW80	
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 HT20/11ax HEW20		802.11n HT40/11ax HEW40		802.11ac VHT80/11ax HEW80	
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 HT20/11ax HEW20		802.11n HT40/11ax HEW40		802.11ac VHT80/11ax HEW80	

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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.

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2021-05-06 to 2021-06-22

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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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23 2021-06-18	2021-06-22 2022-06-17
LISN	R&S	EZH3-Z5	100294	2020-06-23 2021-06-18	2021-06-22 2022-06-17
LISN	R&S	EZH3-Z5	100253	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Power sensor	Anritsu	MA2491A	32263	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23 2021-06-18	2021-06-22 2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-15	2022-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23 2021-06-18	2021-06-22 2022-06-17
RF Cable	Zhengdi	7m	--	2020-06-23 2021-06-18	2021-06-22 2022-06-17
RF Switch	EM	EMSW18	060391	2020-06-23 2021-06-18	2021-06-22 2022-06-17

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Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23 2021-06-18	2021-06-22 2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23 2021-06-18	2021-06-22 2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

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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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207 & 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

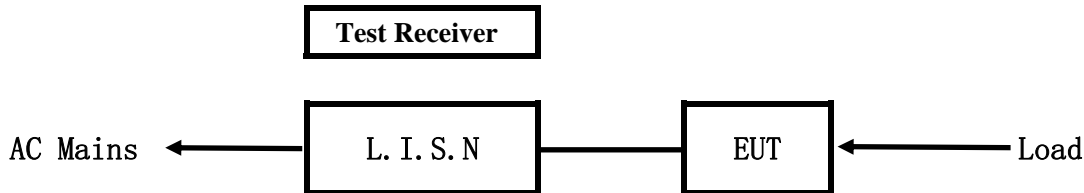
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



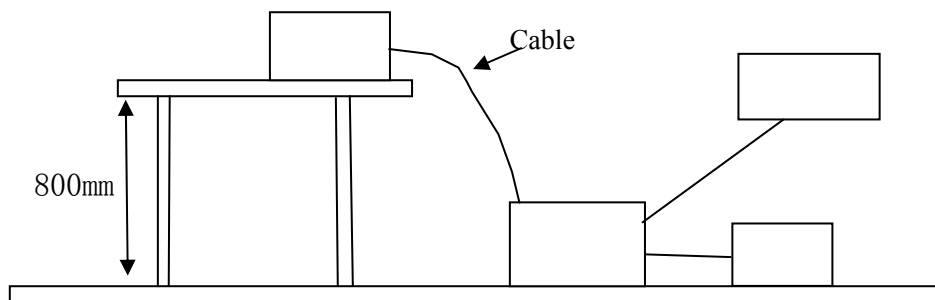
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2009. 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
wireless router	Aukey Technology Co., Ltd.	WR-AX01(see the page 4 for additional models)	2ATIH-WR-AX01

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating

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 μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

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

5.6 Test Results

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)

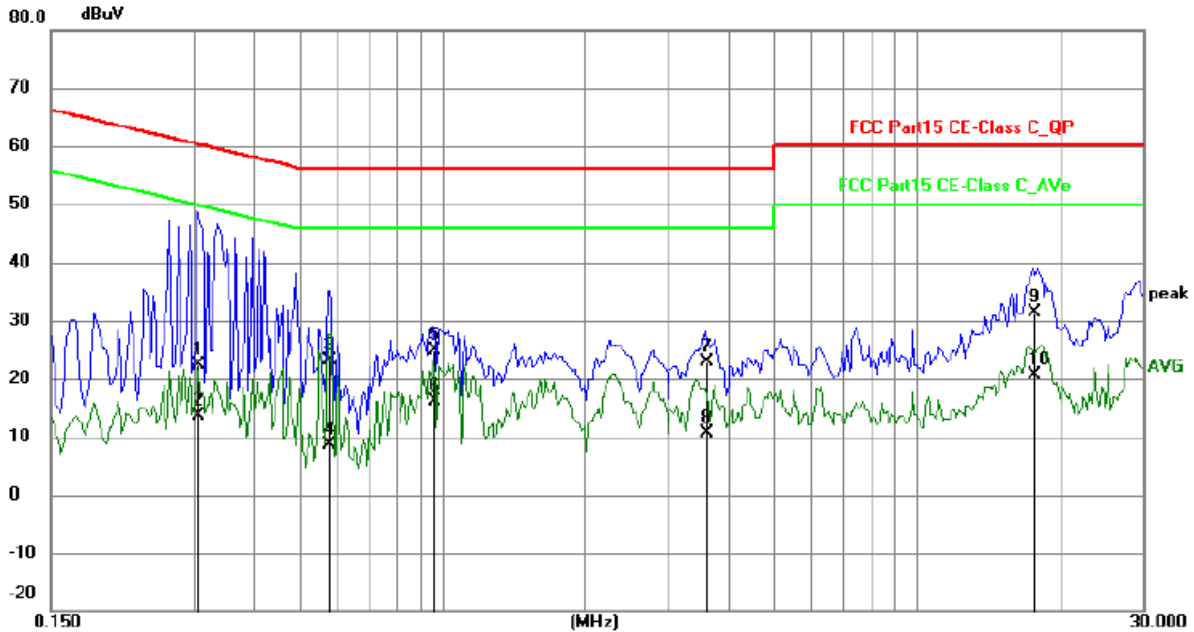
EUT Operating Environment

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

EUT set Condition: Keeping WIFI Transmitting

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	0.3060	12.71	9.76	22.47	60.08	-37.61	QP	P
2	0.3060	3.95	9.76	13.71	50.08	-36.37	AVG	P
3	0.5790	13.39	9.77	23.16	56.00	-32.84	QP	P
4	0.5790	-1.14	9.77	8.63	46.00	-37.37	AVG	P
5	0.9612	14.97	9.79	24.76	56.00	-31.24	QP	P
6	0.9612	6.43	9.79	16.22	46.00	-29.78	AVG	P
7	3.5967	13.11	9.87	22.98	56.00	-33.02	QP	P
8	3.5967	0.73	9.87	10.60	46.00	-35.40	AVG	P
9	17.5860	20.94	10.54	31.48	60.00	-28.52	QP	P
10	17.5860	10.04	10.54	20.58	50.00	-29.42	AVG	P

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

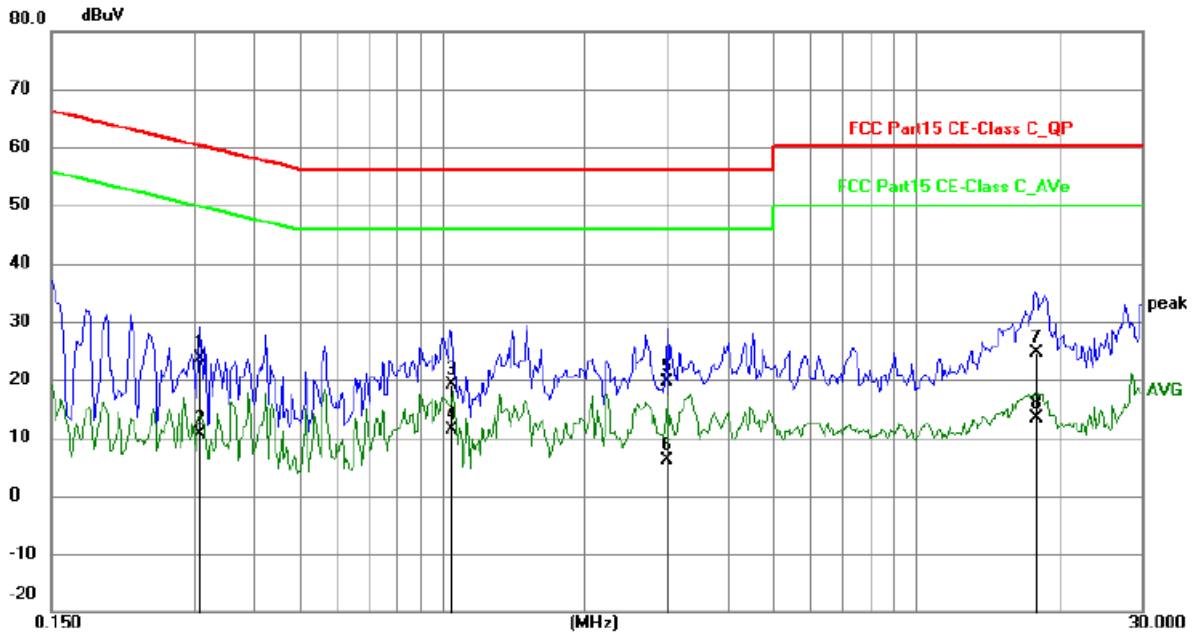
EUT Operating Environment

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

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3099	13.93	9.76	23.69	59.97	-36.28	QP	P
2	0.3099	0.93	9.76	10.69	49.97	-39.28	AVG	P
3	1.0470	9.31	9.79	19.10	56.00	-36.90	QP	P
4	1.0470	1.53	9.79	11.32	46.00	-34.68	AVG	P
5	2.9892	9.90	9.84	19.74	56.00	-36.26	QP	P
6	2.9892	-3.77	9.84	6.07	46.00	-39.93	AVG	P
7	17.9331	13.98	10.56	24.54	60.00	-35.46	QP	P
8	17.9331	2.92	10.56	13.48	50.00	-36.52	AVG	P

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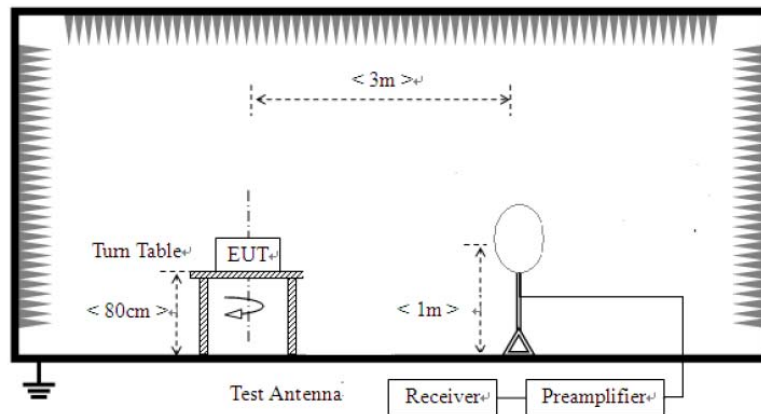
6 Undesirable Emission and Restrict band

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.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 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

For radiated emissions from 9kHz to 30MHz

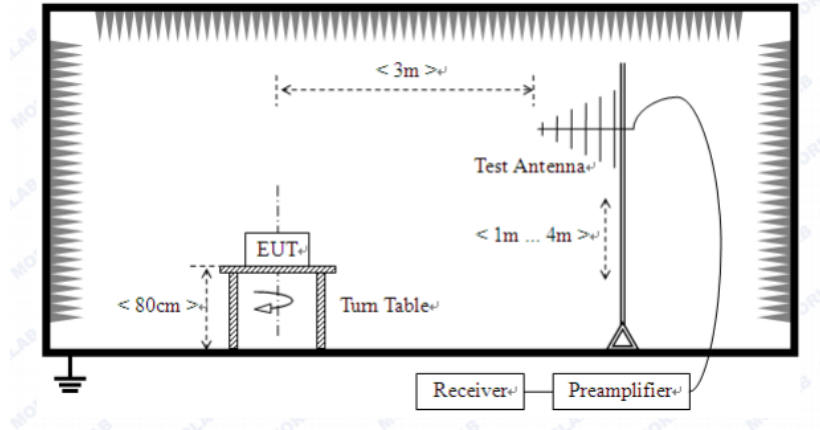


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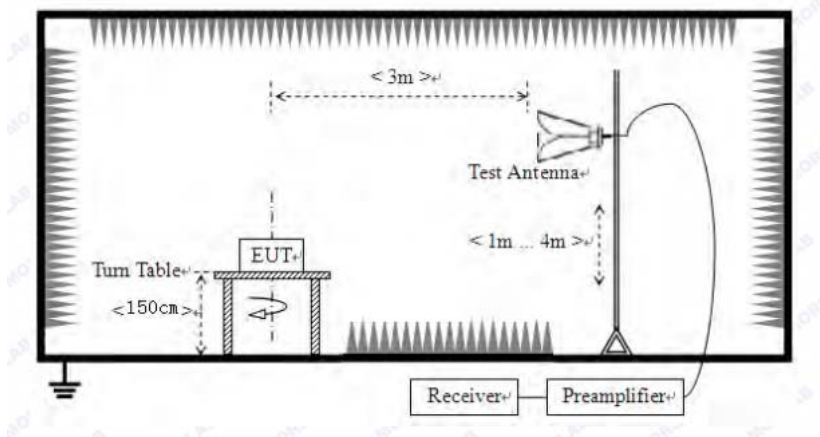
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

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

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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

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

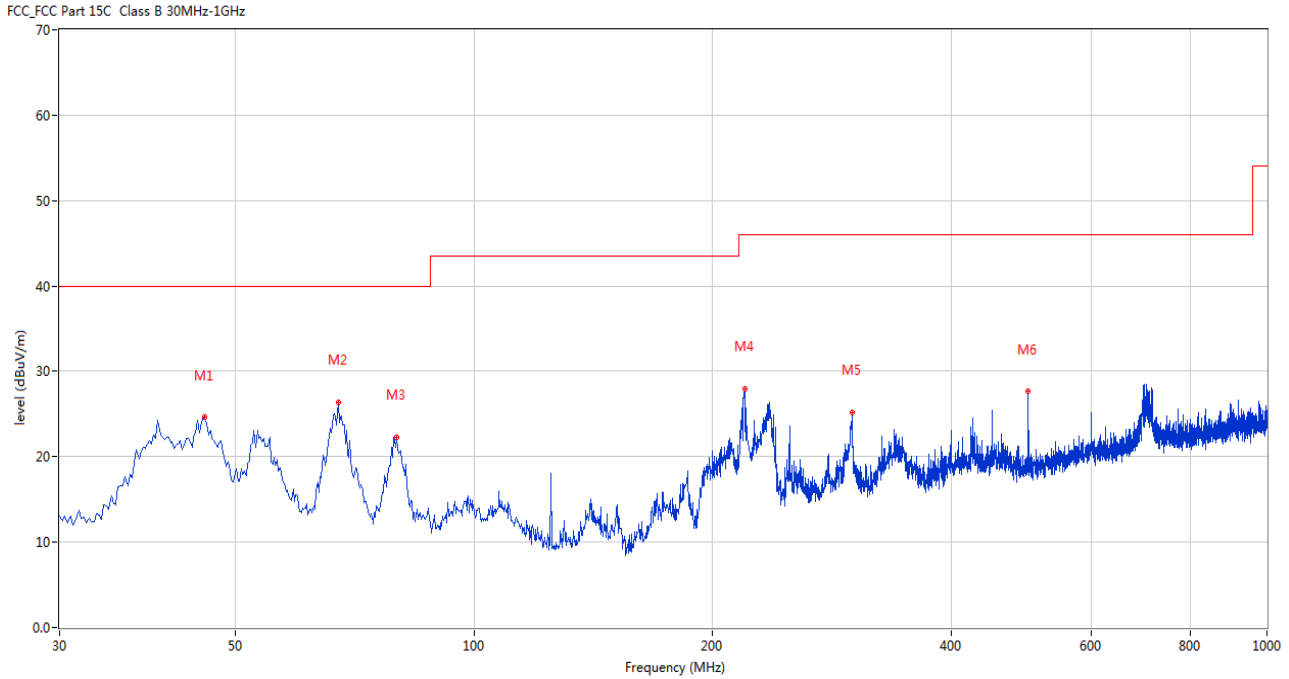
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	45.759	24.59	-11.40	40.0	-15.41	Peak	169.00	100	Horizontal	Pass
2	67.336	26.41	-14.40	40.0	-13.59	Peak	5.00	100	Horizontal	Pass
3	79.943	22.31	-17.44	40.0	-17.69	Peak	15.00	100	Horizontal	Pass
4	219.345	28.00	-13.32	46.0	-18.00	Peak	0.00	100	Horizontal	Pass
5	299.835	25.19	-11.03	46.0	-20.81	Peak	113.00	100	Horizontal	Pass
6	500.090	27.62	-6.91	46.0	-18.38	Peak	207.00	100	Horizontal	Pass

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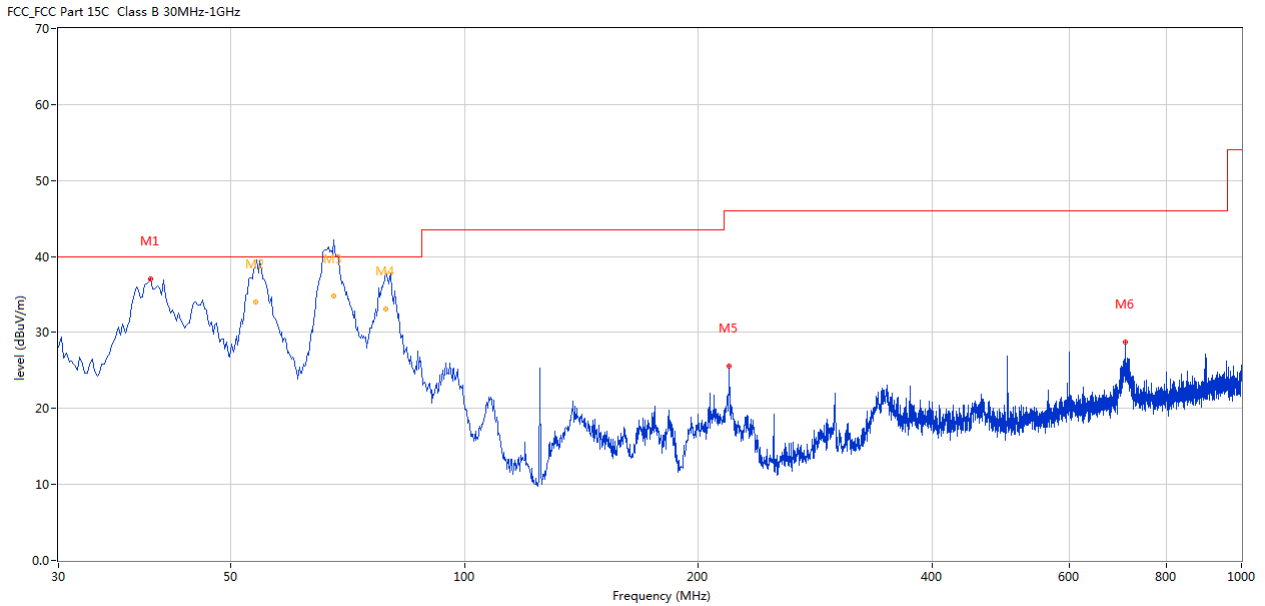
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	39.455	37.01	-12.52	40.0	-2.99	Peak	360.00	100	Vertical	Pass
2	53.893	39.60	-11.54	40.0	-0.40	Peak	284.00	100	Vertical	Pass
2*	53.893	34.07	-11.54	40.0	-5.93	QP	284.00	100	Vertical	Pass
3	67.760	39.23	-14.55	40.0	-0.77	Peak	284.00	200	Vertical	Pass
3*	67.760	34.74	-14.55	40.0	-5.26	QP	284.00	200	Vertical	Pass
4	79.215	38.08	-17.46	40.0	-1.92	Peak	241.00	100	Vertical	Pass
4*	79.215	33.08	-17.46	40.0	-6.92	QP	241.00	100	Vertical	Pass
5	219.103	25.59	-13.33	46.0	-20.41	Peak	265.00	100	Vertical	Pass
6	709.558	28.76	-4.04	46.0	-17.24	Peak	288.00	100	Vertical	Pass

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Operation Mode: Keeping Transmitting under CH36 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5180.00	94.45 (PK)	H	Fundamental Frequency
5180.00	91.46 (PK)	V	
10360	49.10 (PK)	H	74(Peak)/ 54(AV)
10360	--	V	74(Peak)/ 54(AV)
15540		H/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 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5200.00	93.81 (PK)	H	Fundamental Frequency
5200.00	91.69 (PK)	V	
10400	49.80 (PK)	H	74(Peak)/ 54(AV)
10400	49.23 (PK)	V	74(Peak)/ 54(AV)
15600	--	H/V	74(Peak)/ 54(AV)
20800	--	H/V	74(Peak)/ 54(AV)
26000	--	H/V	7 (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 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5240.00	98.30 (PK)	H	Fundamental Frequency
5240.00	90.21 (PK)	V	
10480	49.77 (PK)	H	74(Peak)/ 54(AV)
10480	48.79 (PK)	V	74(Peak)/ 54(AV)
15720	--	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)

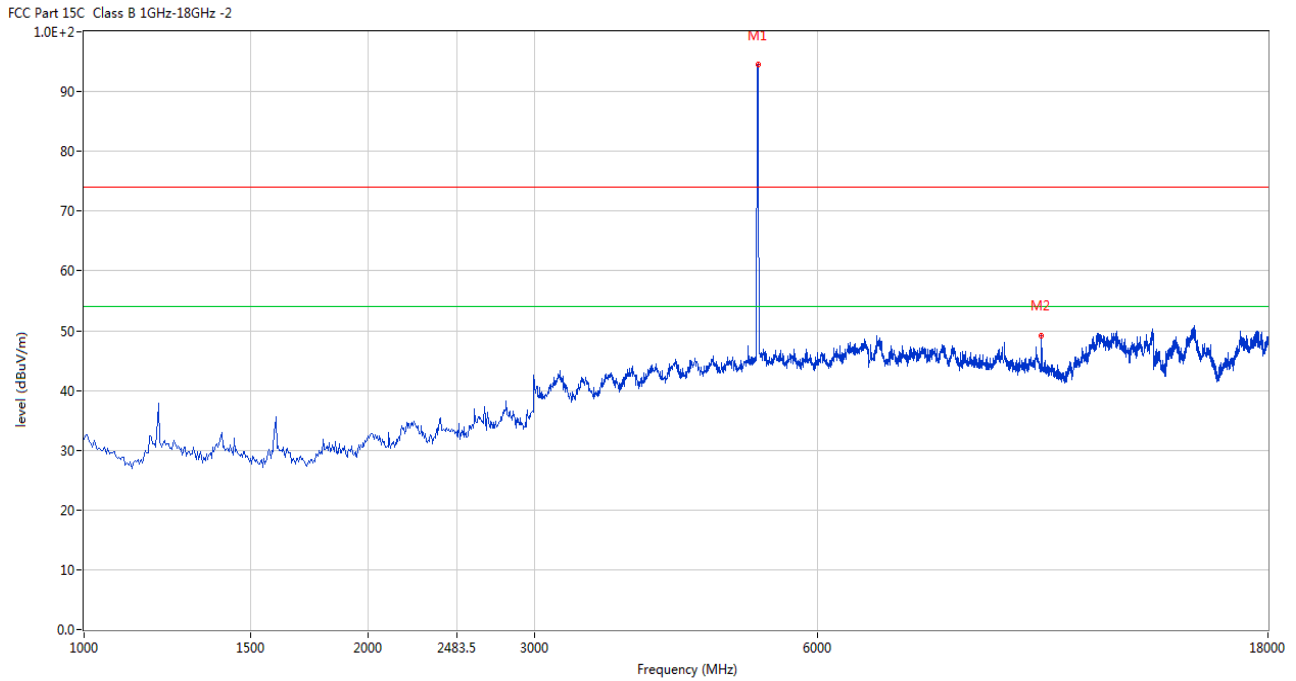
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark “---” means that the emissions level is too low to be measured
 3. For 802.11a mode 6Mbps

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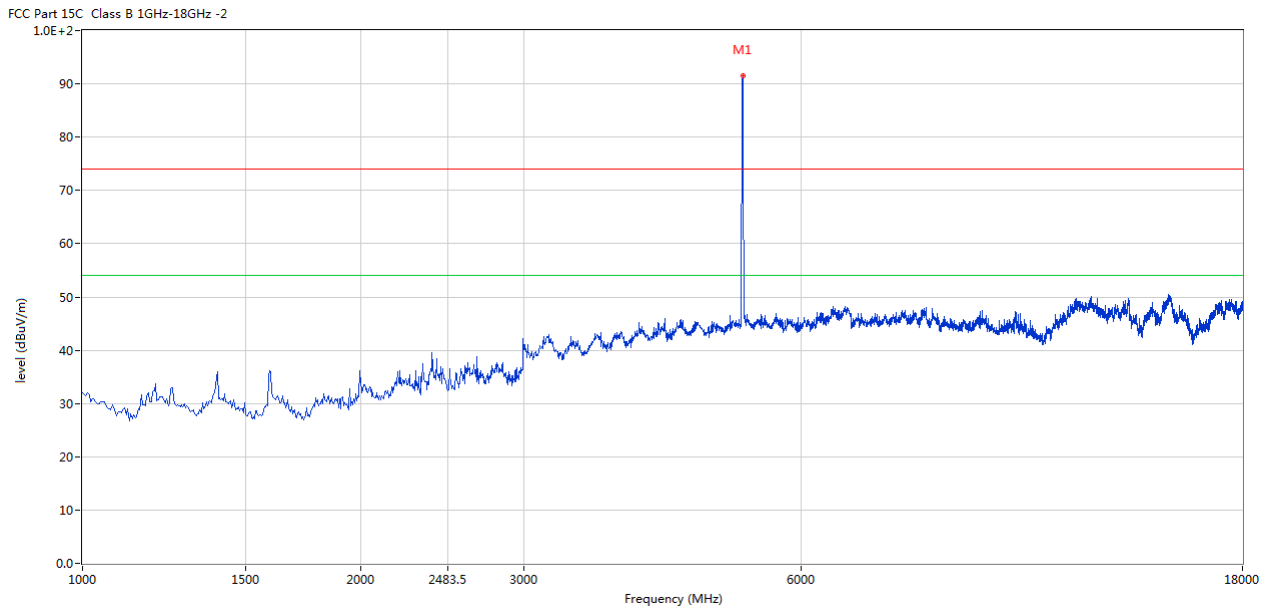


Please refer to the following test plots for details:

CH36 for 11a at 6Mbps: Horizontal



CH36 for 11a at 6Mbps: Vertical



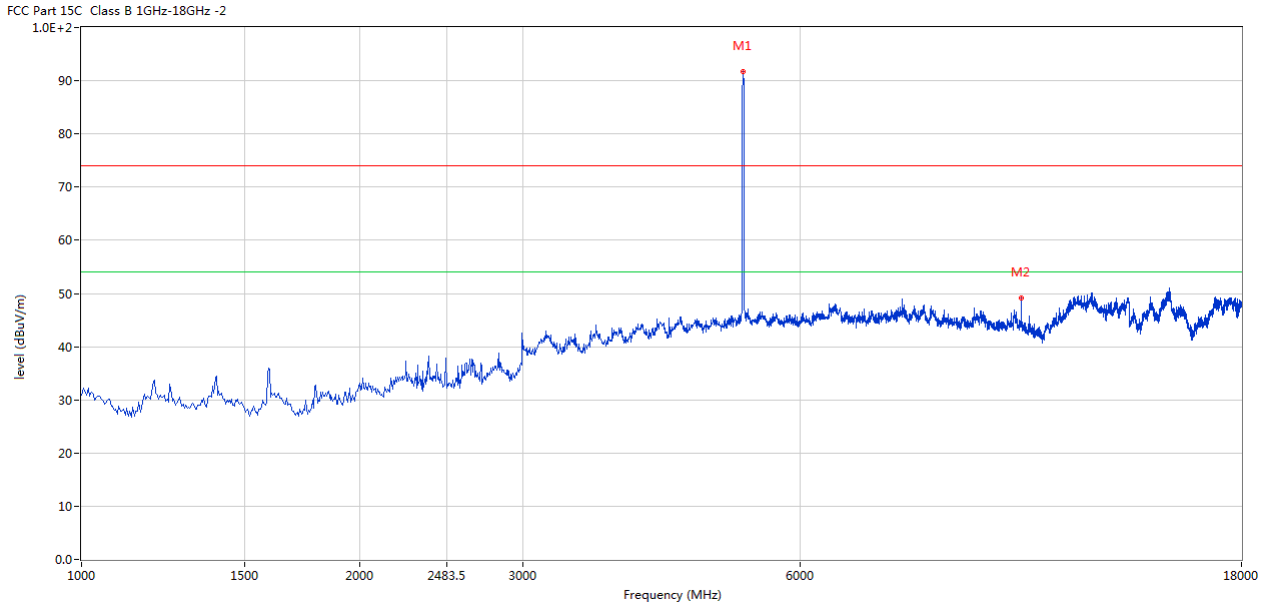
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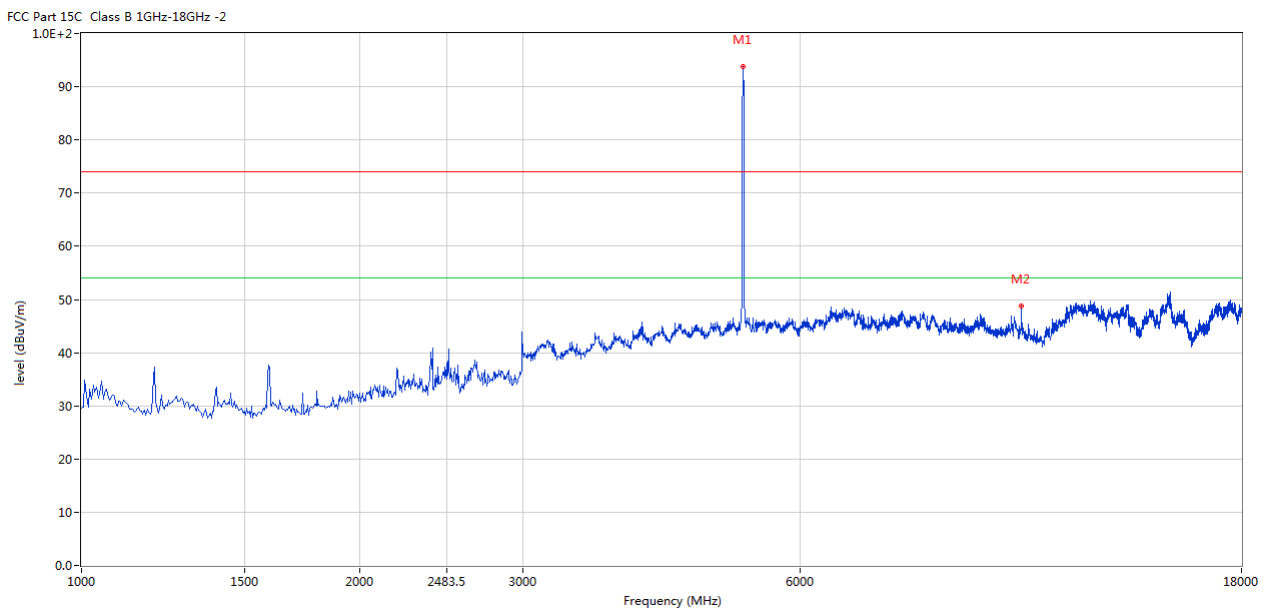
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CH40 for 11a at 6Mbps: Vertical



CH40 for 11a at 6Mbps: Horizontal



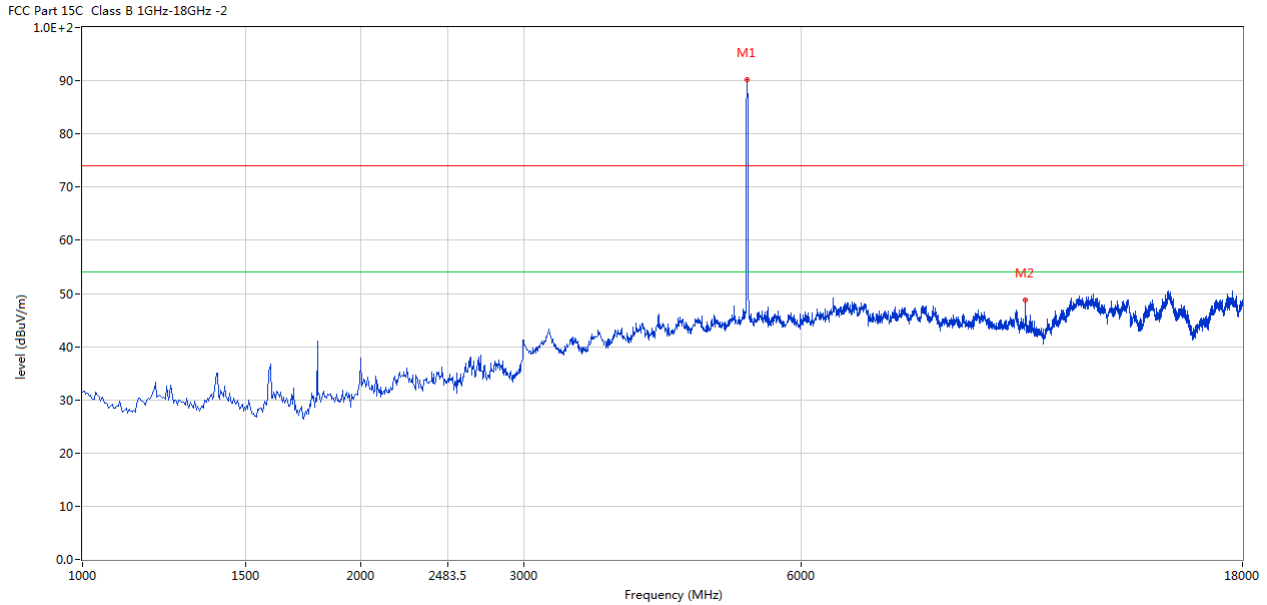
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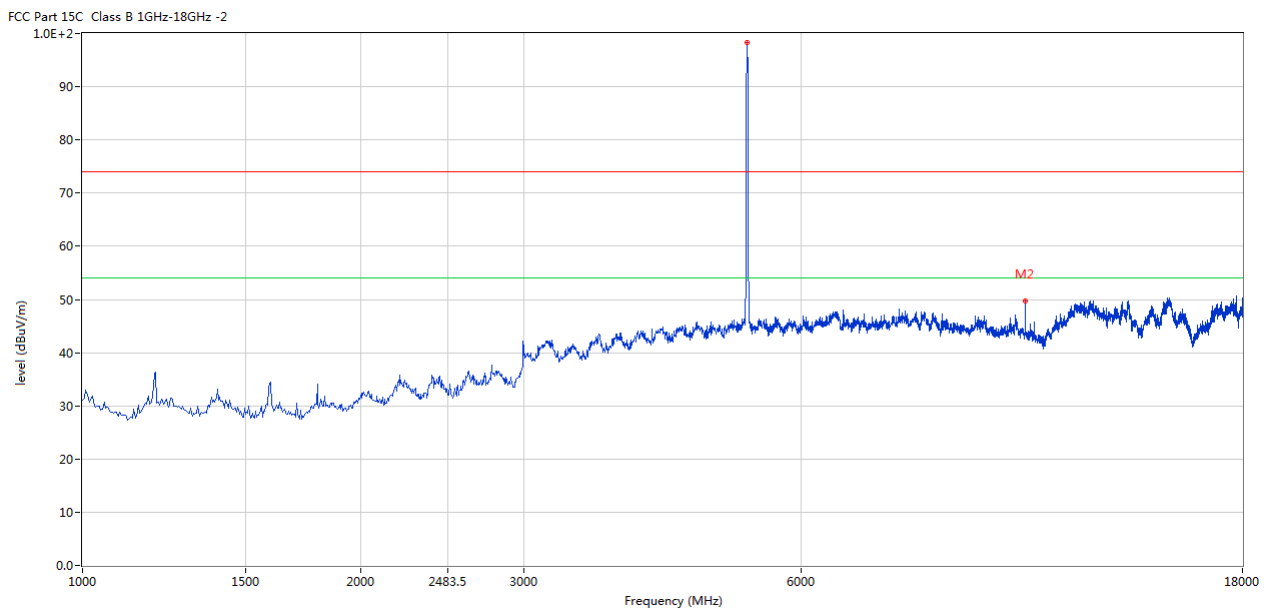
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CH48 for 11a at 6Mbps: Vertical



CH48 for 11g at 6Mbps: Horizontal



- Note: 1. For radiated Emissions from 18-40GHz, it is only the floor noise.
2. 802.11a is the worst case.

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Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	44.8 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-50.4	
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:

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

For Example, if $E[dB\mu V/m] = 44.8 \text{ dB}\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 44.8 - 95.2 = -50.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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

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

For Example, if $E[dB\mu V/m] = 46.7 \text{ dB}\mu V/m$,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	49.7 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-45.5	
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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	53.6 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-41.6	
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:

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

For Example, if $E[dB\mu V/m] = 53.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 53.6 - 95.2 = -41.6 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	41.3 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-53.9	
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 $\text{E[dB}\mu\text{V/m]} = 41.3 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 41.3 - 95.2 = -53.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	42.0 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-53.2	
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 $\text{E[dB}\mu\text{V/m]} = 42.0 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 42.0 - 95.2 = -53.2 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 161 (5805MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	49.5 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-45.7	
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 $\text{E[dB}\mu\text{V/m]} = 49.5 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.5 - 95.2 = -45.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		Test Mode: Channel 161 (5805MHz)-11a
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	50.8 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-44.4	
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 $\text{E[dB}\mu\text{V/m]} = 50.8 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.8 - 95.2 = -44.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	42.6 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-52.6	
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:

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

For Example, if $E[dB\mu V/m] = 42.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 42.6 - 95.2 = -52.6dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	45.5 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-49.7	
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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	48.0 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-47.2	
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:

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

For Example, if $E[dB\mu V/m] = 48.0 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 48.0 - 95.2 = -47.2 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	52.3(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-42.9	
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:

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

For Example, if $E[dB\mu V/m] = 52.3 dB\mu V/m$,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	41.2 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-54.0	
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:

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

For Example, if $E[dB\mu V/m] = 41.2 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 41.2 - 95.2 = -54.0 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	43.7 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-51.5	
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:

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

For Example, if $E[dB\mu V/m] = 43.7 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 43.7 - 95.2 = -51.5 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	45.5 (PK)	Limit -17dBm/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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	50.1 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-45.1	
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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	46.5 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-48.7	
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:

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

For Example, if $E[dB\mu V/m] = 46.5 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 46.5 - 95.2 = -48.7 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	40.8(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-54.4	
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:

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

For Example, if $E[dB\mu V/m] = 40.8 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 40.8 - 95.2 = -54.4 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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	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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	37.9 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-57.3	
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:

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

For Example, if $E[dB\mu V/m] = 37.9 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 37.9 - 95.2 = -57.3dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	46.4 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-48.8	
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:

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

For Example, if $E[dB\mu V/m] = 46.4 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 46.4 - 95.2 = -48.8dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	39.0 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-56.2	
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:

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

For Example, if $E[dB\mu V/m] = 39.0 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 39.0 - 95.2 = -56.2 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	51.8 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-43.4	
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:

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

For Example, if $E[dB\mu V/m] = 51.8 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 51.8 - 95.2 = -43.4 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	39.6 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-55.6	
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:

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

For Example, if $E[dB\mu V/m] = 39.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 39.6 - 95.2 = -55.6 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	47.5 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-47.7	
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:

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

For Example, if $E[dB\mu V/m] = 47.5 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 47.5 - 95.2 = -47.7 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	wireless router		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)	51.2 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-44.0	
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:

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

For Example, if $E[dB\mu V/m] = 51.2 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 51.2 - 95.2 = -44.0 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	wireless router		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)	52.0 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-43.2	
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:

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

For Example, if $E[dB\mu V/m] = 52.0 dB\mu V/m$,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 36 (5180MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	40.2 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-55.0	
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:

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

For Example, if $E[dB\mu V/m] = 40.2 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 40.2 - 95.2 = -55.0 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 36 (5180MHz)- 11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 48 (5240MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	43.1 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-52.1	
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:

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

For Example, if $E[dB\mu V/m] = 43.1 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 43.1 - 95.2 = -52.1 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 48 (5240MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	40.5(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-54.7	
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:

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

For Example, if $E[dB\mu V/m] = 40.5 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 40.5 - 95.2 = -54.7 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 149 (5745MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	39.7 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-53.9	
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:

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

For Example, if $E[dB\mu V/m] = 41.3 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 41.3 - 95.2 = -53.9 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 149 (5745MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	40.8 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-54.4	
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:

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

For Example, if $E[dB\mu V/m] = 40.8 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 40.8 - 95.2 = -54.4 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 161 (5805MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	42.3 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-52.9	
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:

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

For Example, if $E[dB\mu V/m] = 42.3 \text{ dB}\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 42.3 - 95.2 = -52.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 161 (5805MHz)-11ax/HEW20
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	43.1 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-52.1	
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:

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

For Example, if $E[dB\mu V/m] = 43.1 \text{ dB}\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 43.1 - 95.2 = -52.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 38 (5190MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	41.9 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-53.3	
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:

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

For Example, if $E[dB\mu V/m] = 41.9 \text{ dB}\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 41.9 - 95.2 = -53.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 38 (5190MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	43.3 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-51.9	
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:

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

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

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

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	WI-FI 6 New-Gen Super Router		Test Mode: Channel 46 (5230MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	50.6(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-44.6	
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:

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

For Example, if $E[dB\mu V/m] = 50.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 50.6 - 95.2 = -44.6 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 46 (5230MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	52.8(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-42.4	
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:

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

For Example, if $E[dB\mu V/m] = 52.8 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 52.8 - 95.2 = -42.4dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 151 (5755MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	43.1 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-52.1	
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:

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

For Example, if $E[dB\mu V/m] = 43.1 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 43.1 - 95.2 = -52.1 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 151 (5755MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	44.6 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-50.6	
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:

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

For Example, if $E[dB\mu V/m] = 44.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 44.6 - 95.2 = -50.6 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 159 (5795MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	44.9(PK)	Limit -17dBm/MHz
	EIRP (dBm)	-50.3	
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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 159 (5795MHz)-11ax/HEW40
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	45.6 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-49.6	
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:

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

For Example, if $E[dB\mu V/m] = 45.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 45.6 - 95.2 = -49.6 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	49.7 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-45.5	
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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	51.6 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-43.6	
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:

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

For Example, if $E[dB\mu V/m] = 51.6 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 51.6 - 95.2 = -43.6 dBm$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 155 (5775MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	42.4 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-52.8	
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:

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

For Example, if $E[dB\mu V/m] = 42.4 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 42.4 - 95.2 = -52.8 dBm$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	WI-FI 6 New-Gen Super Router		Test Mode: Channel 157 (5775MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage 120V~
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	44.1 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-51.1	
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:

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

For Example, if $E[dB\mu V/m] = 44.1 dB\mu V/m$,

$$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 44.1 - 95.2 = -51.1 dBm$$

2. RBW=1MHz, VBW=3MHz

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

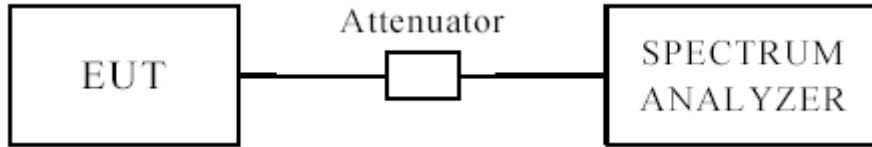
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7.0 Emission Bandwidth

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		wireless router		Model	WR-AX01
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
26dB Bandwidth					
36	5180	6	20.20	--	Pass
40	5200	6	20.20	--	Pass
48	5240	6	20.08	--	Pass
99% Bandwidth					
36	5180	6	16.77	--	Pass
40	5200	6	16.83	--	Pass
48	5240	6	16.83	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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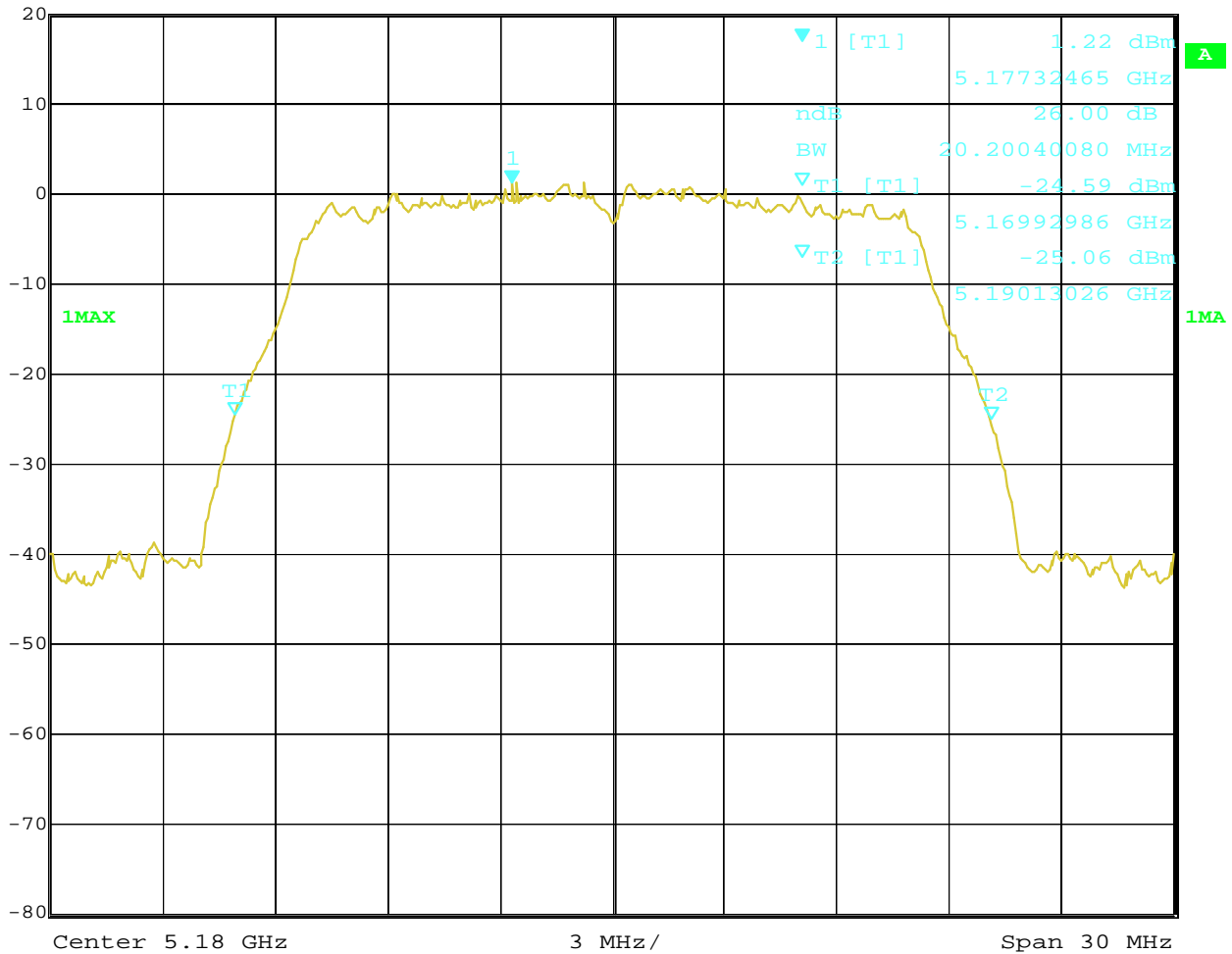


Test Figure:

26dB Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 20.20040080 MHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:05:30

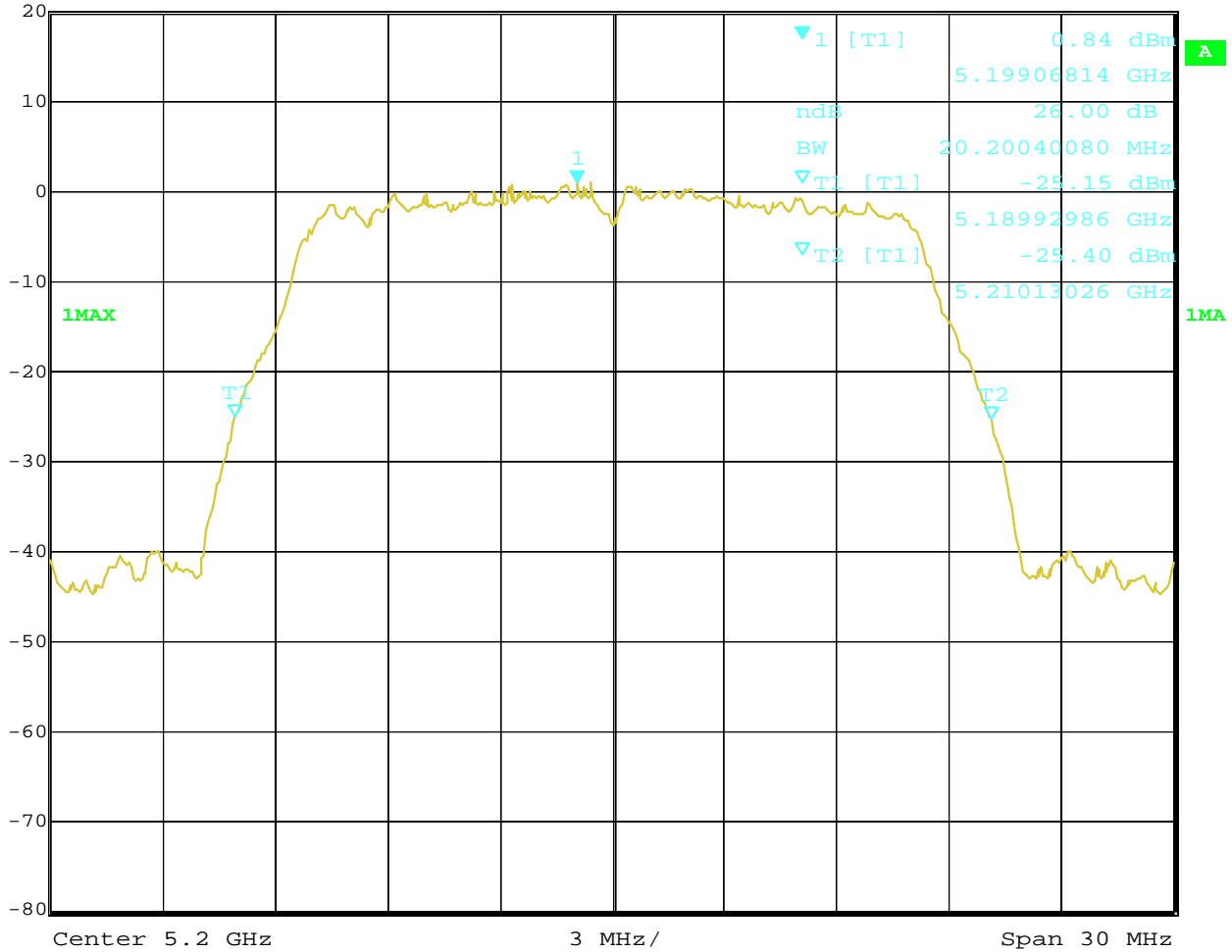
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Channel 40



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.20040080 MHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 19.MAY.2021 17:02:43

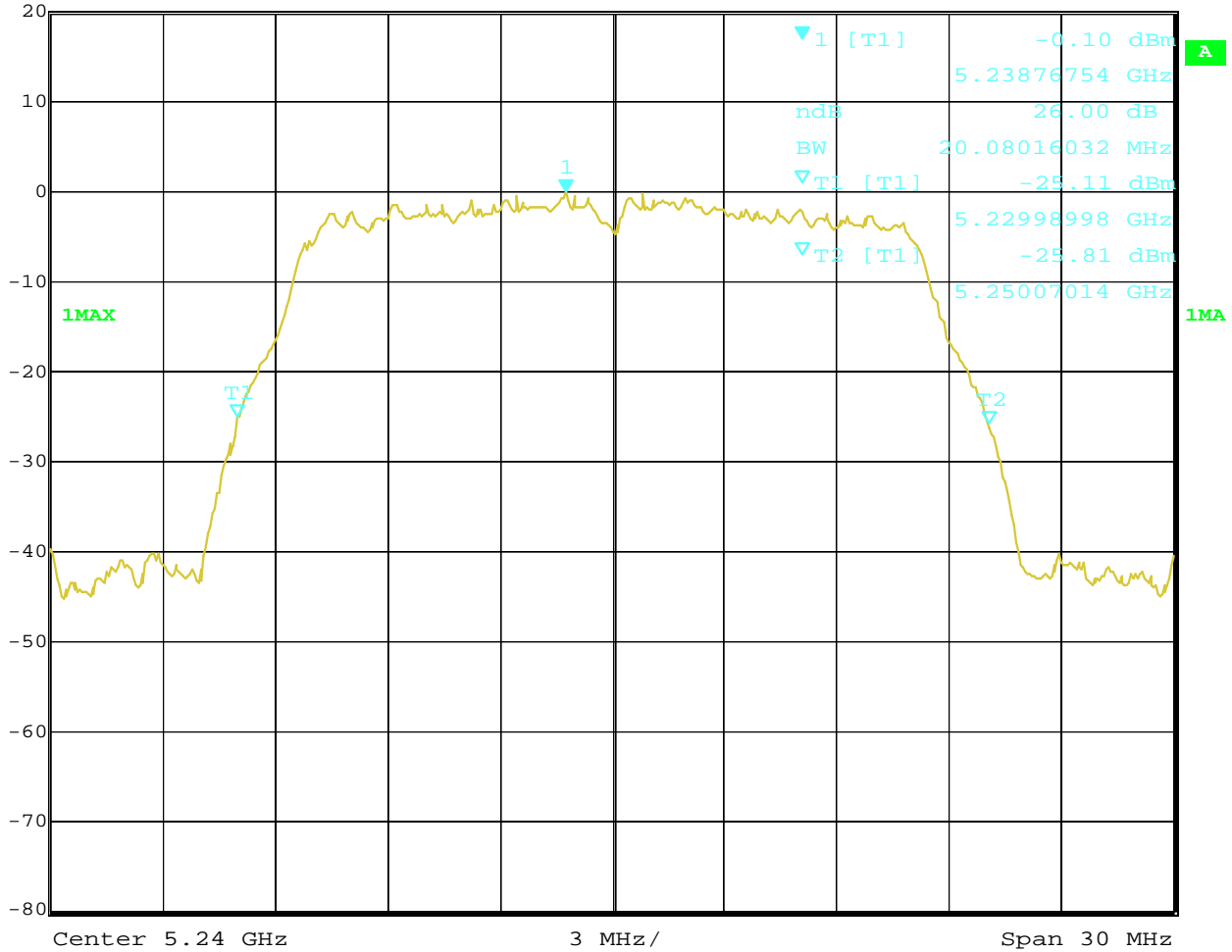
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Channel 48



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.08016032 MHz	VBW	1 MHz	Unit	dBm
		SWT	5 ms				



Date: 19.MAY.2021 16:57:16

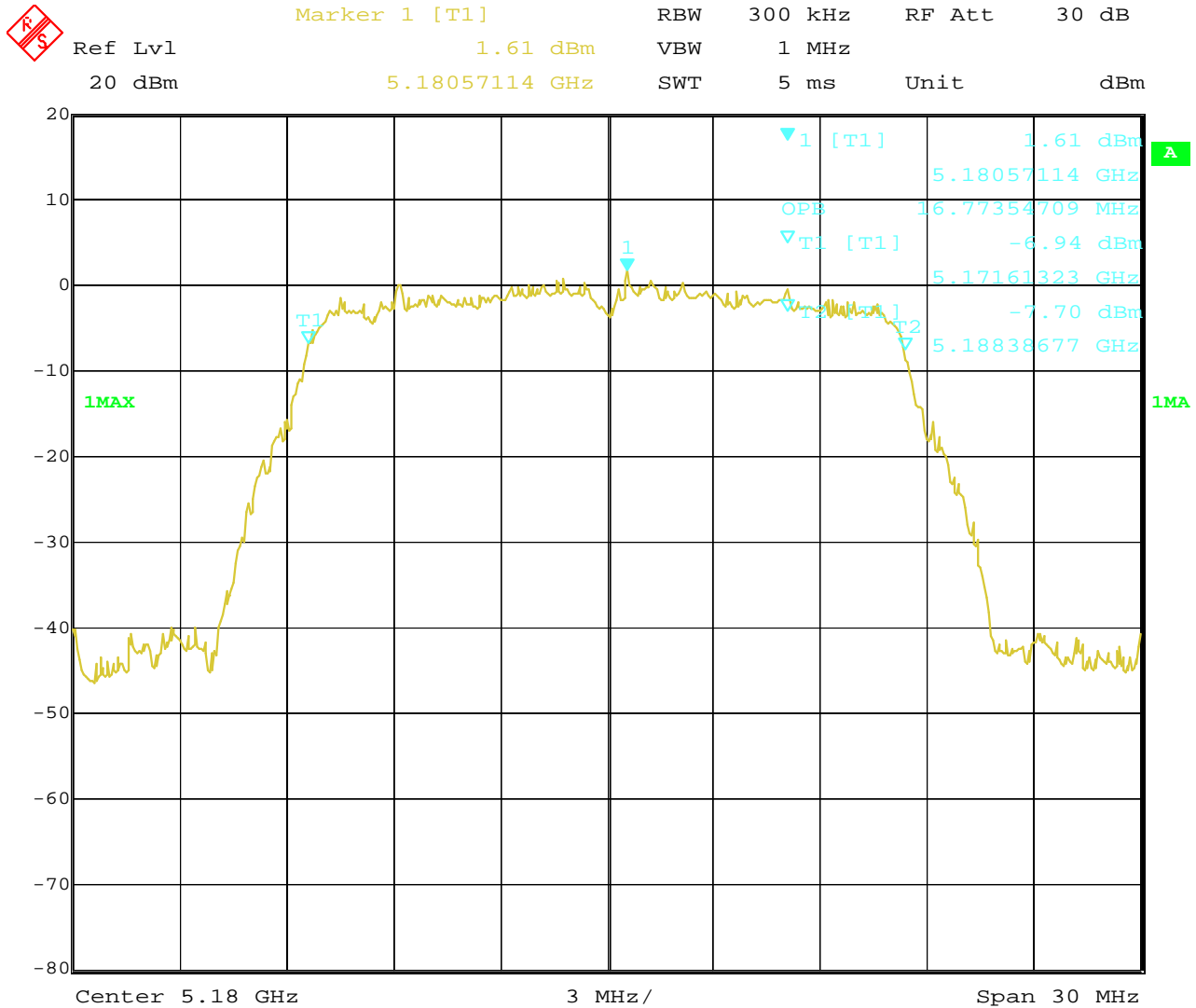
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Test Figure:

99% Bandwidth

Channel 36



Date: 19.MAY.2021 18:01:56

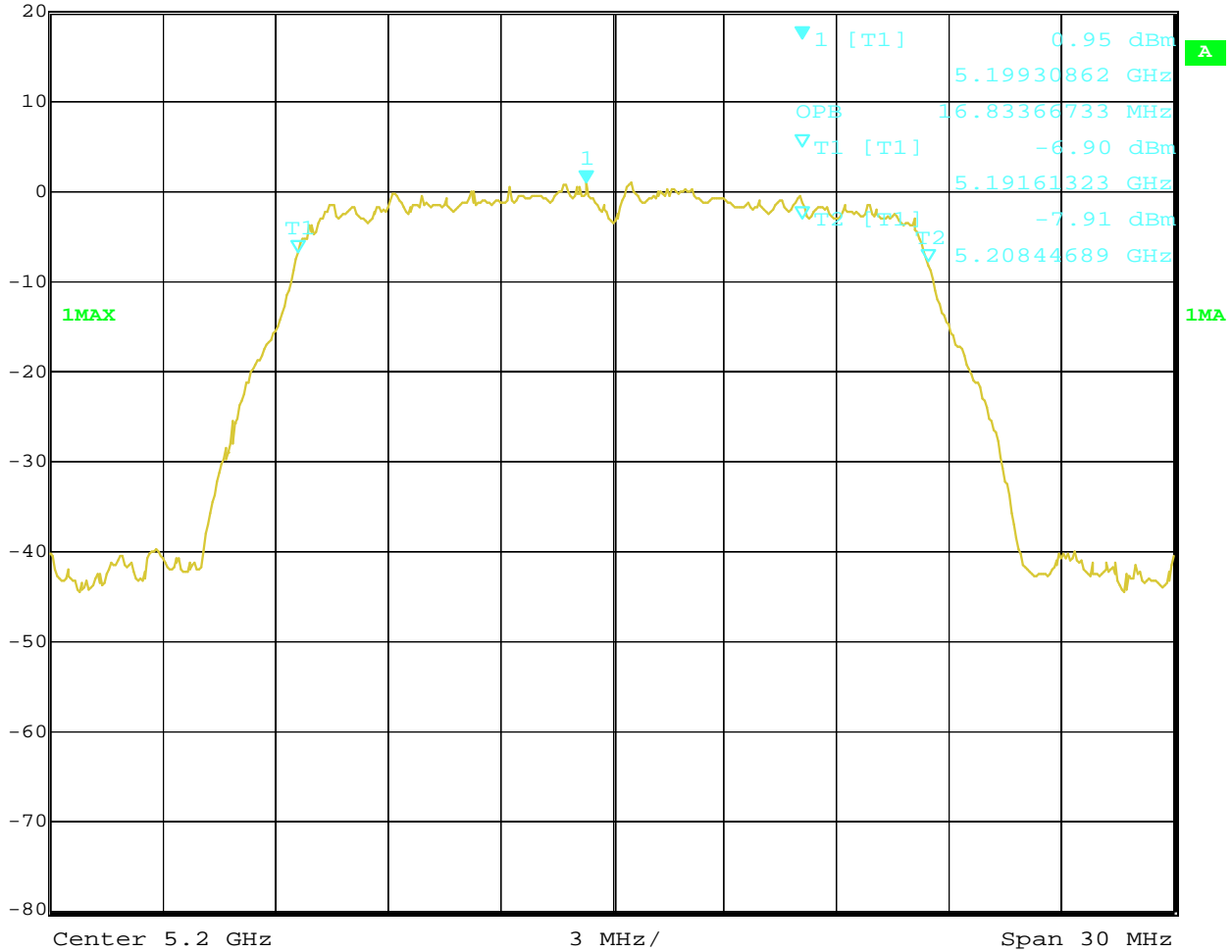
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Channel 40



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	0.95 dBm	VBW	1 MHz		
	5.19930862 GHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 18:01:15

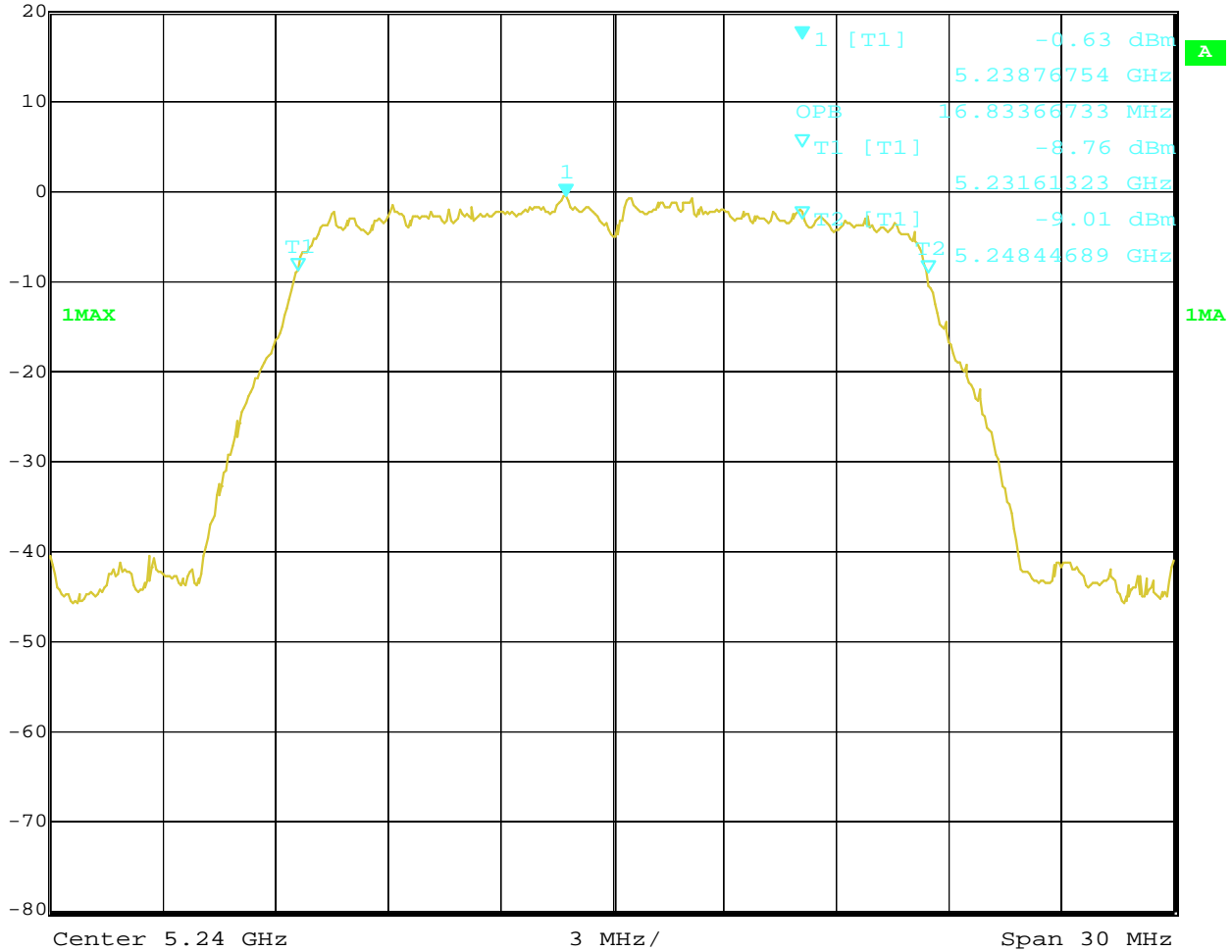
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Channel 48



Ref Lvl	20 dBm	Marker 1 [T1]	-0.63 dBm	RBW	300 kHz	RF Att	30 dB
			5.23876754 GHz	VBW	1 MHz	Unit	dBm
				SWT	5 ms		



Date: 19.MAY.2021 17:56:31

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EUT	wireless router		Model	WR-AX01	
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
26dB Bandwidth					
149	5745	6	20.08	--	Pass
153	5765	6	20.08	--	Pass
161	5805	6	20.08	--	Pass
6dB Bandwidth					
149	5745	6	16.35	0.5	Pass
153	5765	6	16.35	0.5	Pass
161	5805	6	16.35	0.5	Pass
99% Bandwidth					
149	5745	6	16.83	--	Pass
153	5765	6	16.83	--	Pass
161	5805	6	16.83	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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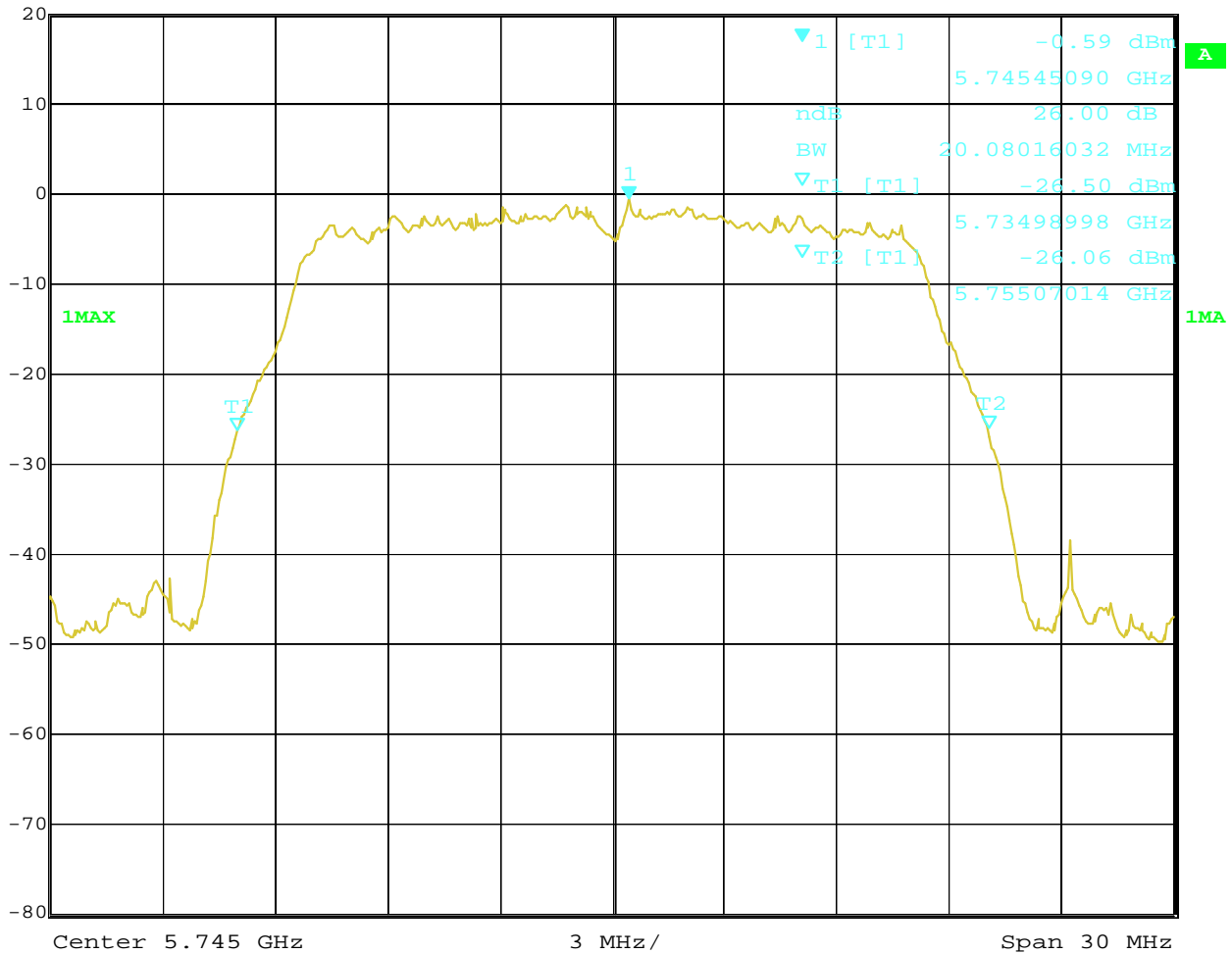


Test Figure:

26dB Bandwidth

Channel 149

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	26.00 dB	RBW	300 kHz	RF Att	30 dB
			BW	20.08016032 MHz	VBW	1 MHz	Unit	dBm
			SWT	5 ms				



Date: 20.MAY.2021 14:00:05

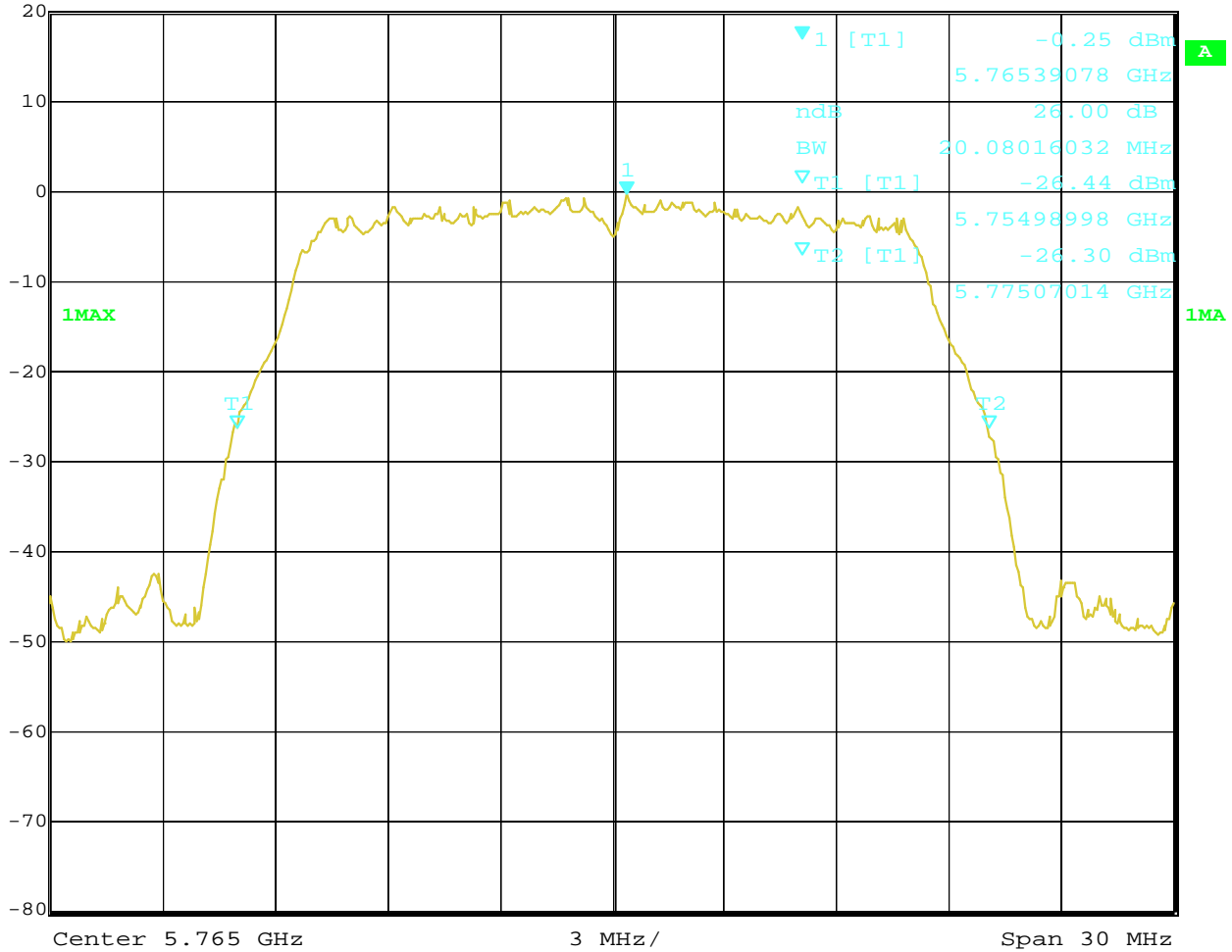
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Channel 153



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.08016032 MHz		VBW	1 MHz	Unit	dBm
					SWT	960 ms		



Date: 21.MAY.2021 13:37:45

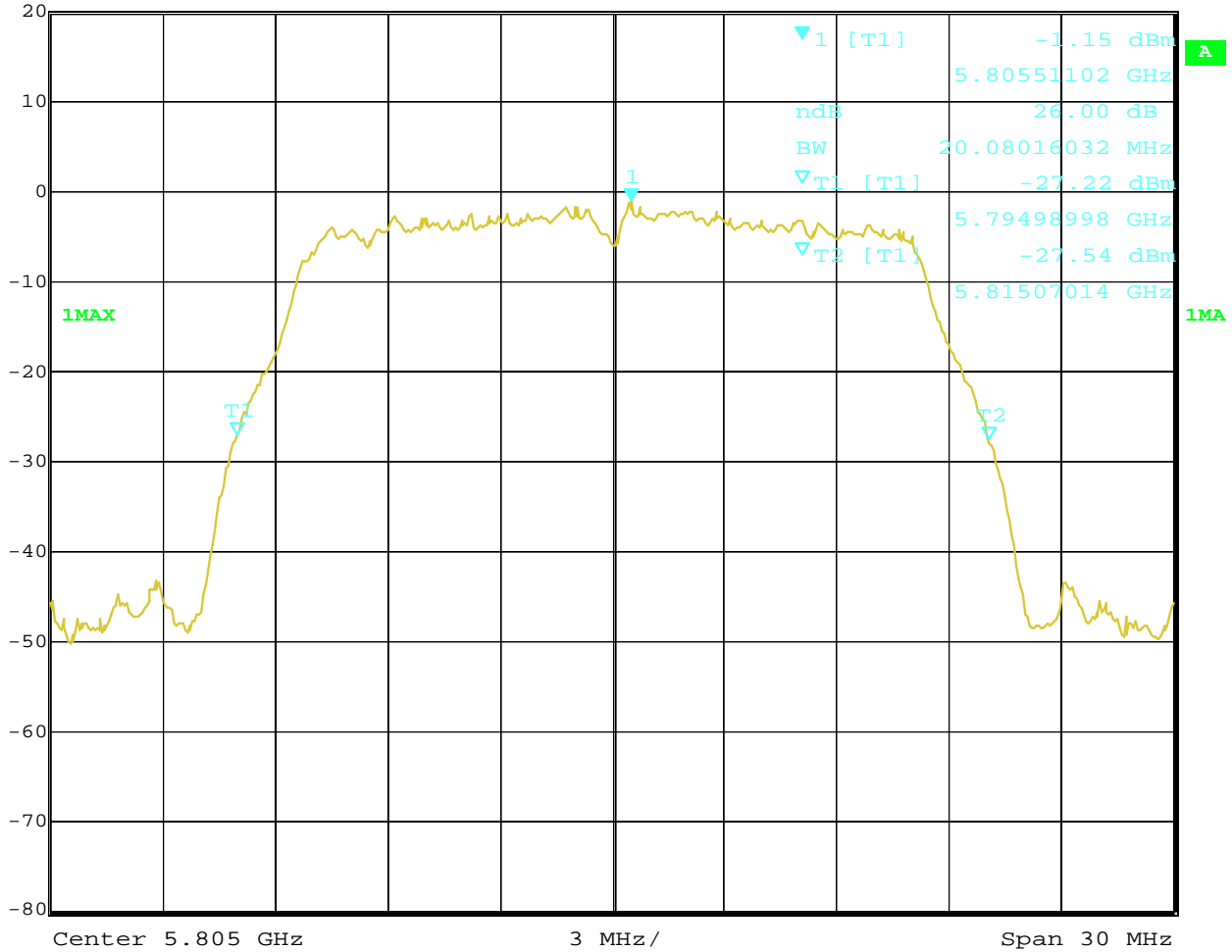
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Channel 161



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.08016032 MHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 20.MAY.2021 16:19:04

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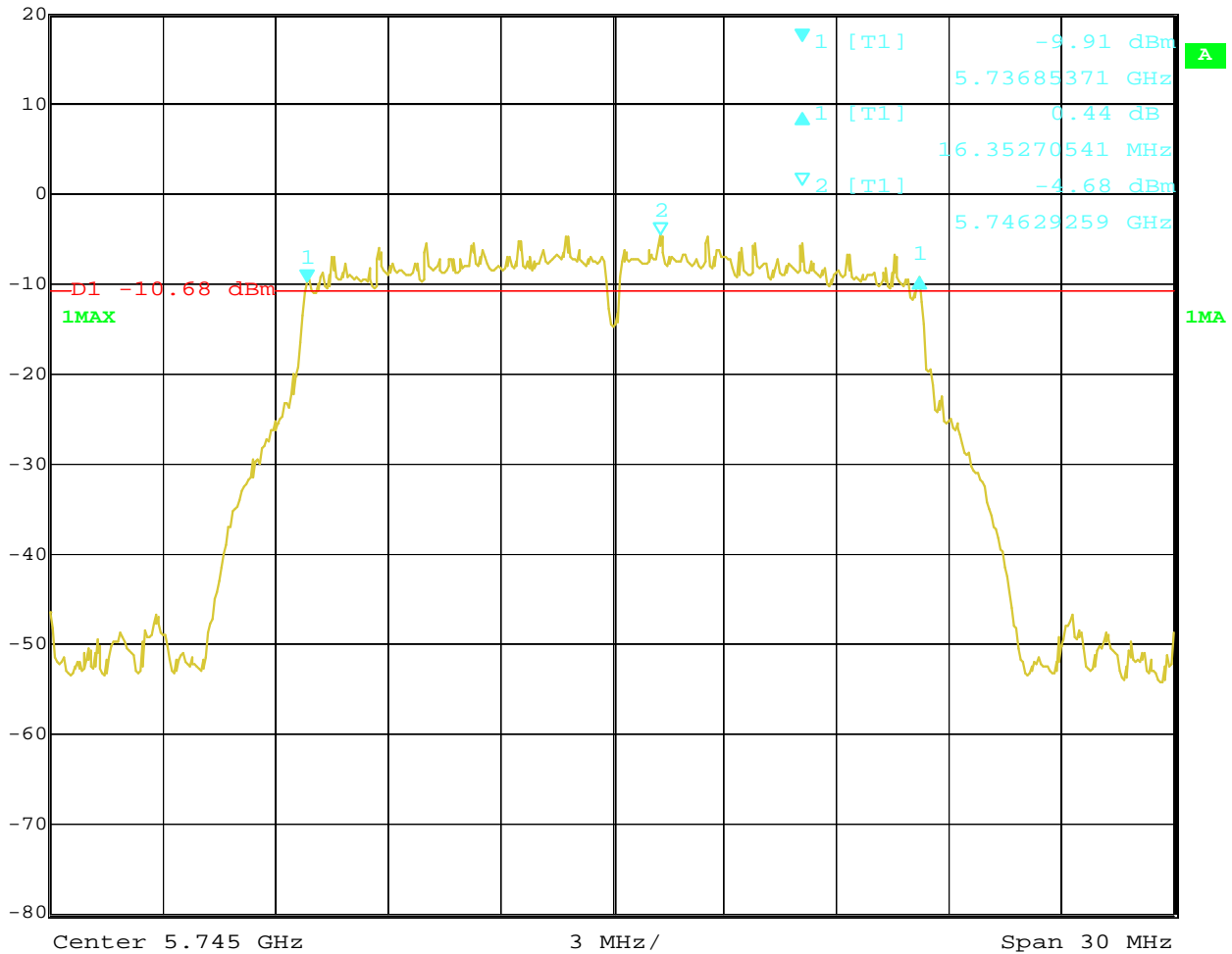


Test Figure:

6dB Bandwidth

Channel 149

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	0.44 dB	VBW	300 kHz	
	20 dBm	16.35270541 MHz	SWT	7.5 ms	Unit dBm



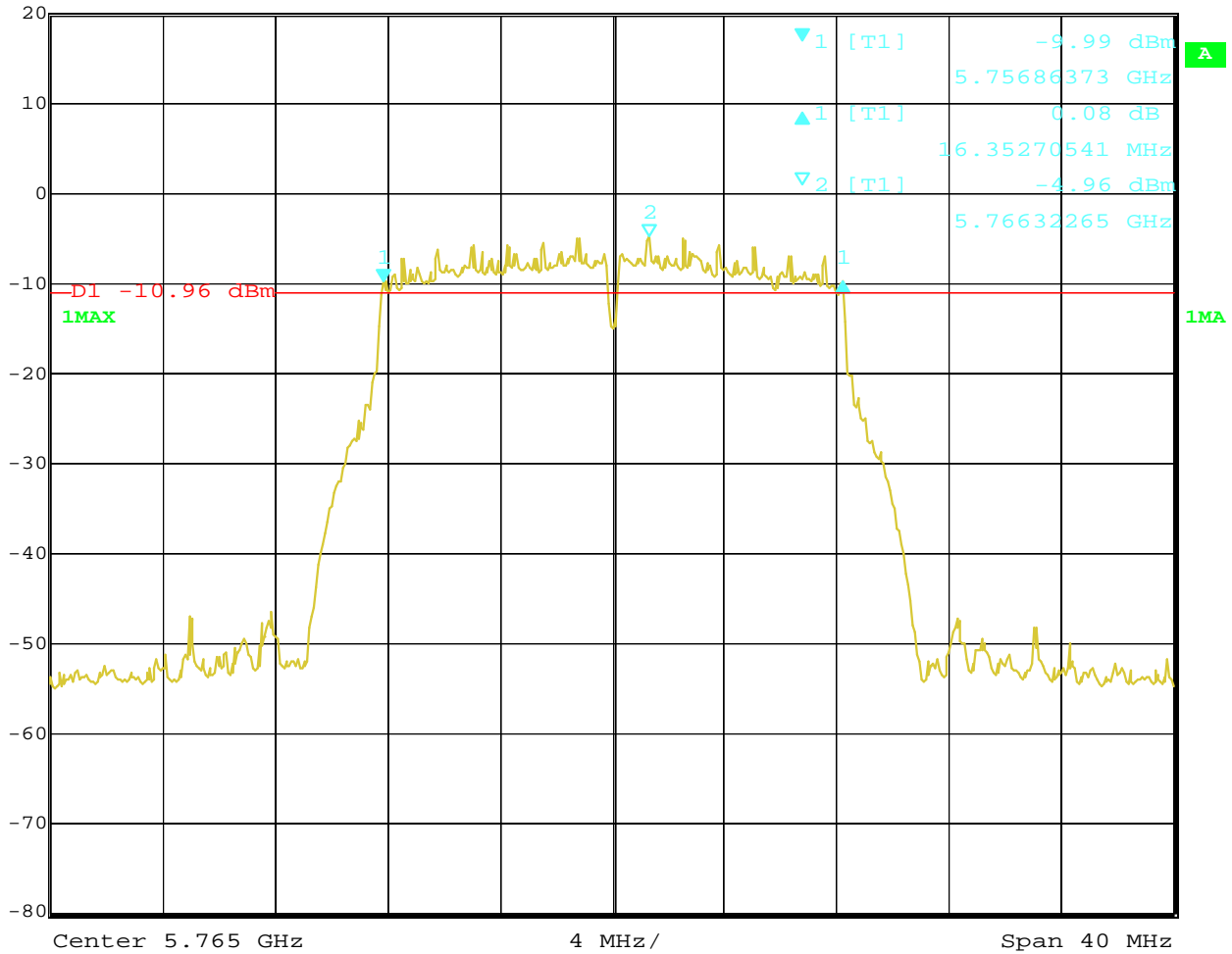
Date: 20.MAY.2021 14:20:27

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Channel 153


Delta 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl 0.08 dB
VBW 300 kHz
20 dBm
16.35270541 MHz
SWT 10 ms
Unit dBm



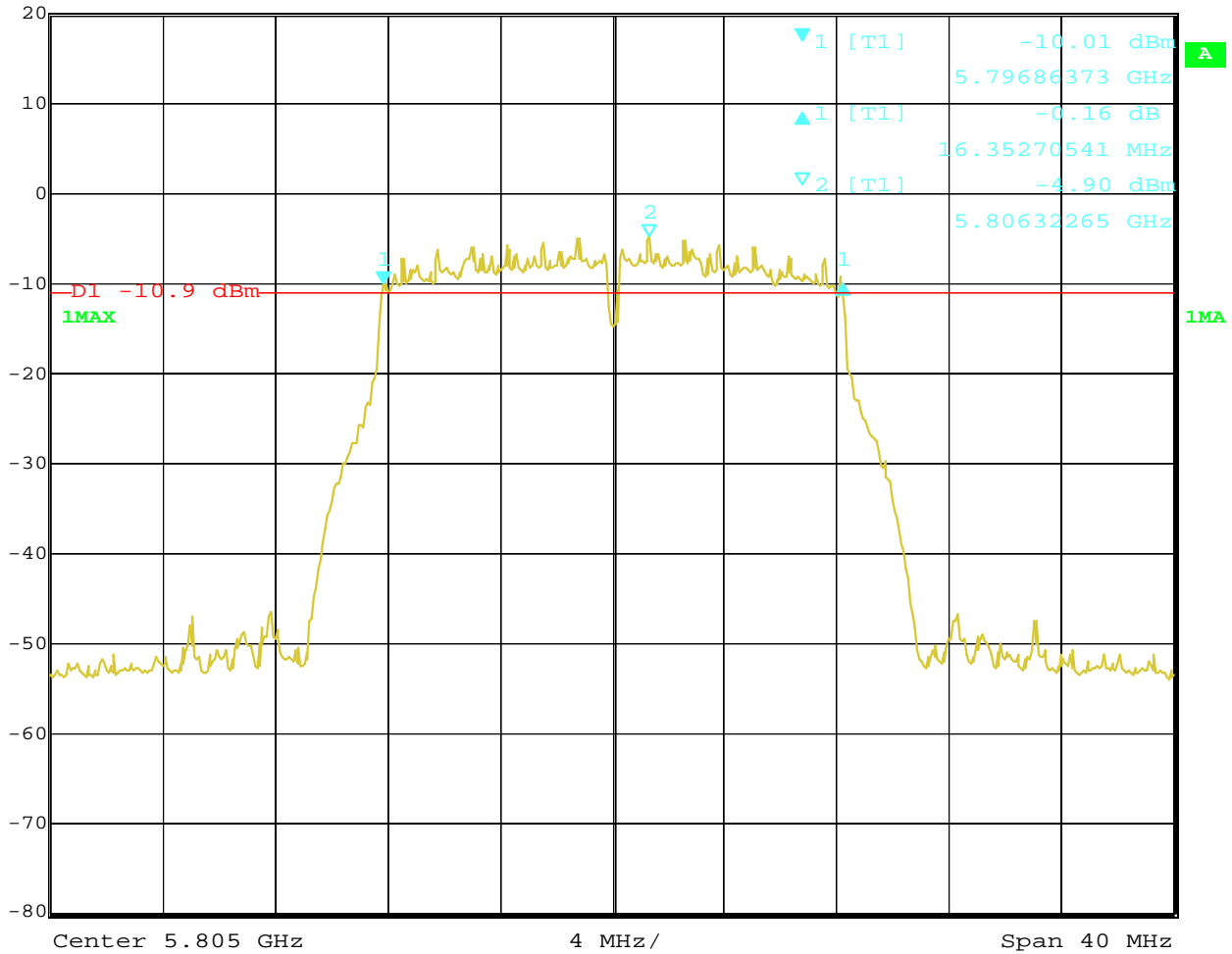
Date: 20.MAY.2021 15:50:14

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Channel 161


Delta 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl -0.16 dB
VBW 300 kHz
20 dBm
16.35270541 MHz
SWT 10 ms
Unit dBm



Date: 20.MAY.2021 16:13:15

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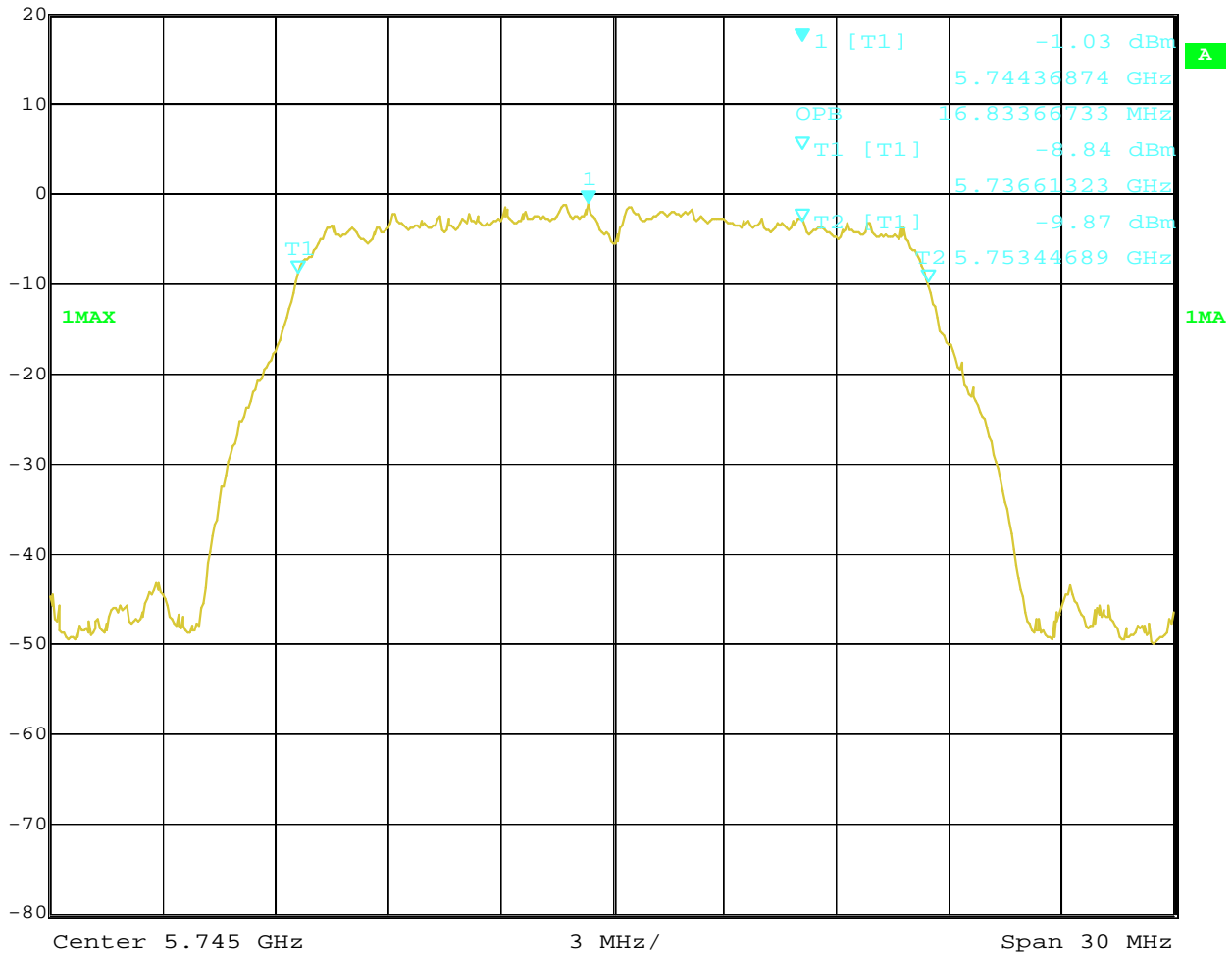


Test Figure:

99% Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	-1.03 dBm	VBW	1 MHz		
		5.74436874 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 14:15:01

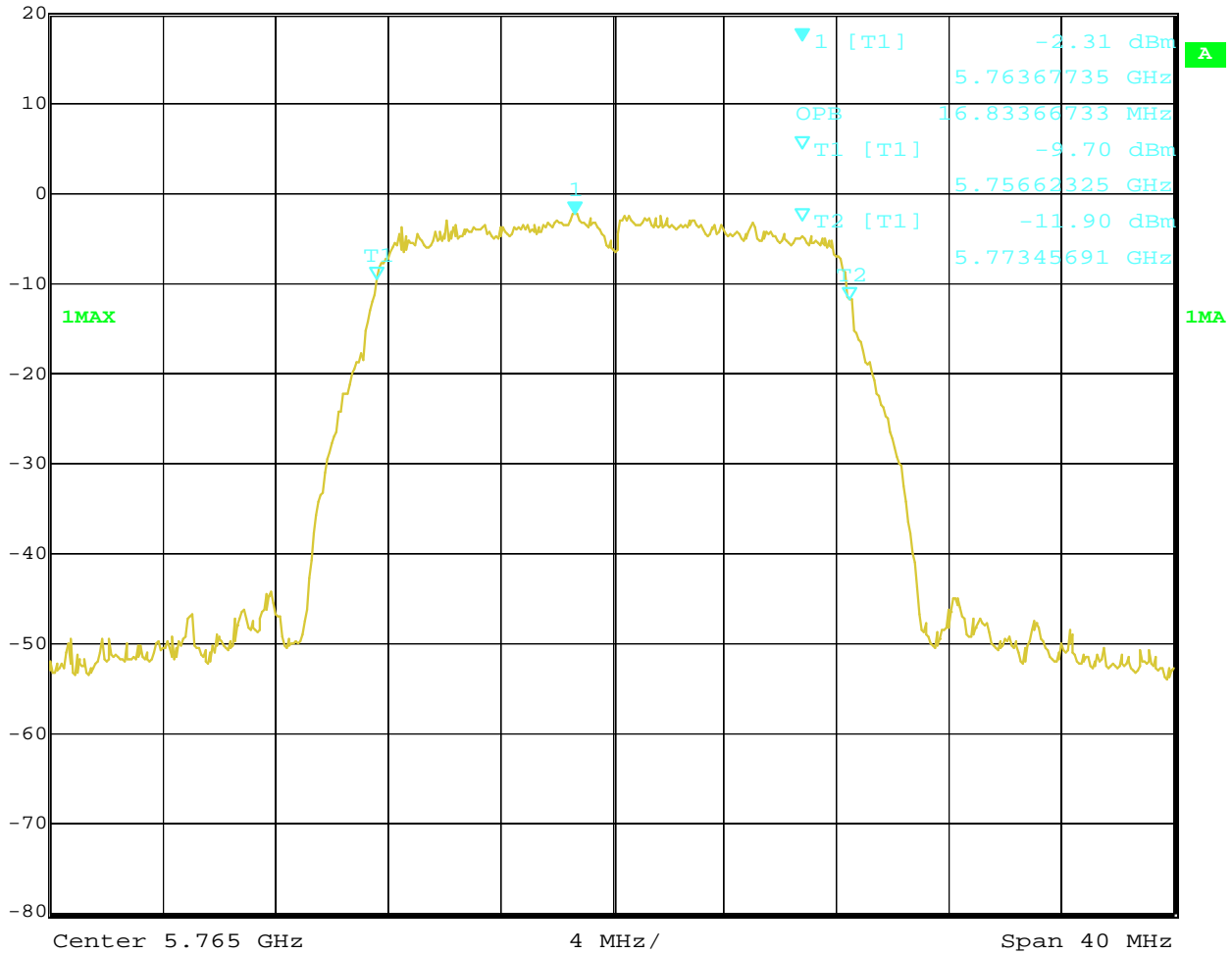
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Channel 153



Ref Lvl	20 dBm	Marker 1 [T1]	-2.31 dBm	RBW	300 kHz	RF Att	30 dB
			5.76367735 GHz	VBW	1 MHz	Unit	dBm
				SWT	5 ms		



Date: 20.MAY.2021 15:23:05

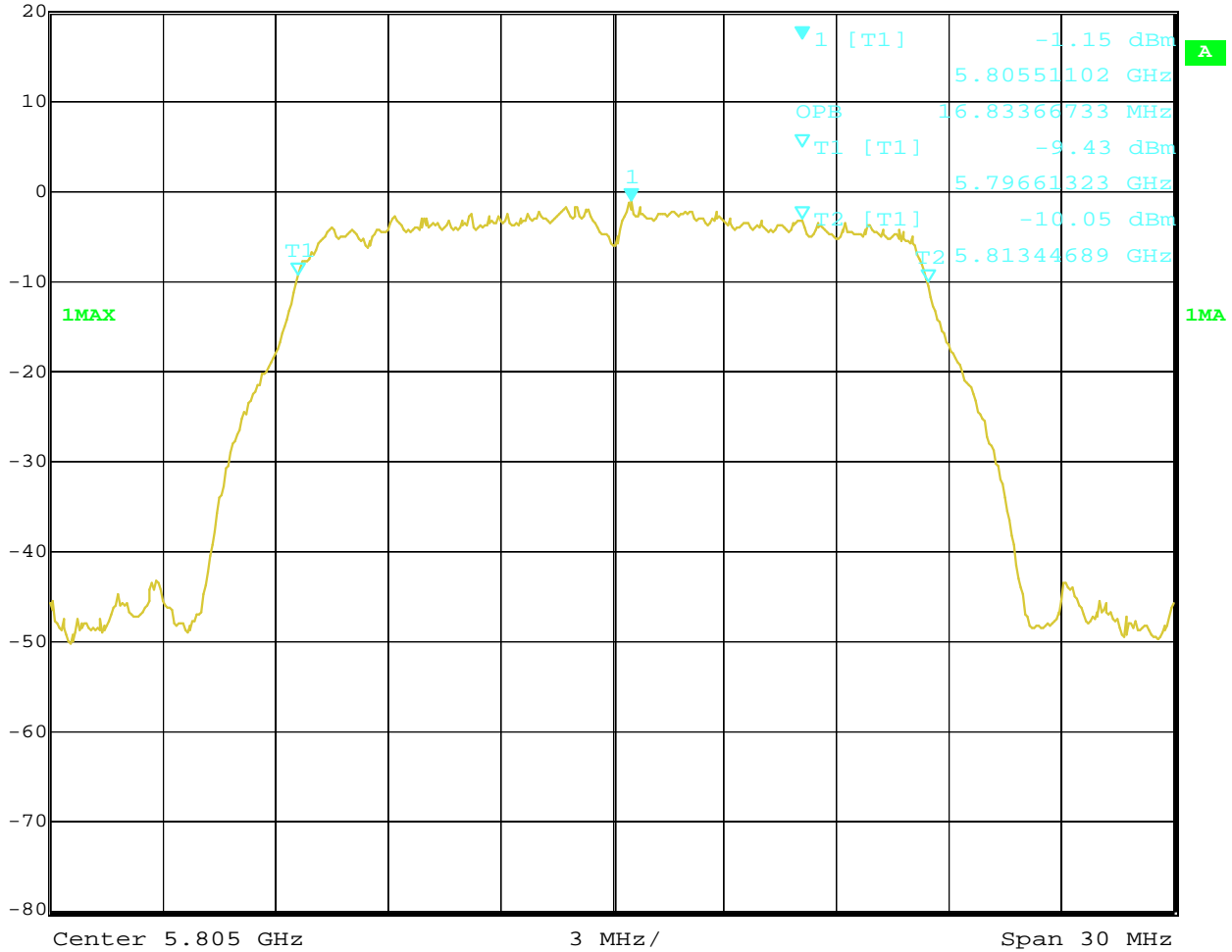
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Channel 161



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	-1.15 dBm	VBW	1 MHz		
	5.80551102 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 16:19:21

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EUT		wireless router		Model	WR-AX01
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
26dB Bandwidth					
36	5180	mcs0	20.20	--	Pass
40	5200	mcs0	20.32	--	Pass
48	5240	mcs0	20.20	--	Pass
99% Bandwidth					
36	5180	mcs0	16.89	--	Pass
40	5200	mcs0	16.89	--	Pass
48	5240	mcs0	16.95	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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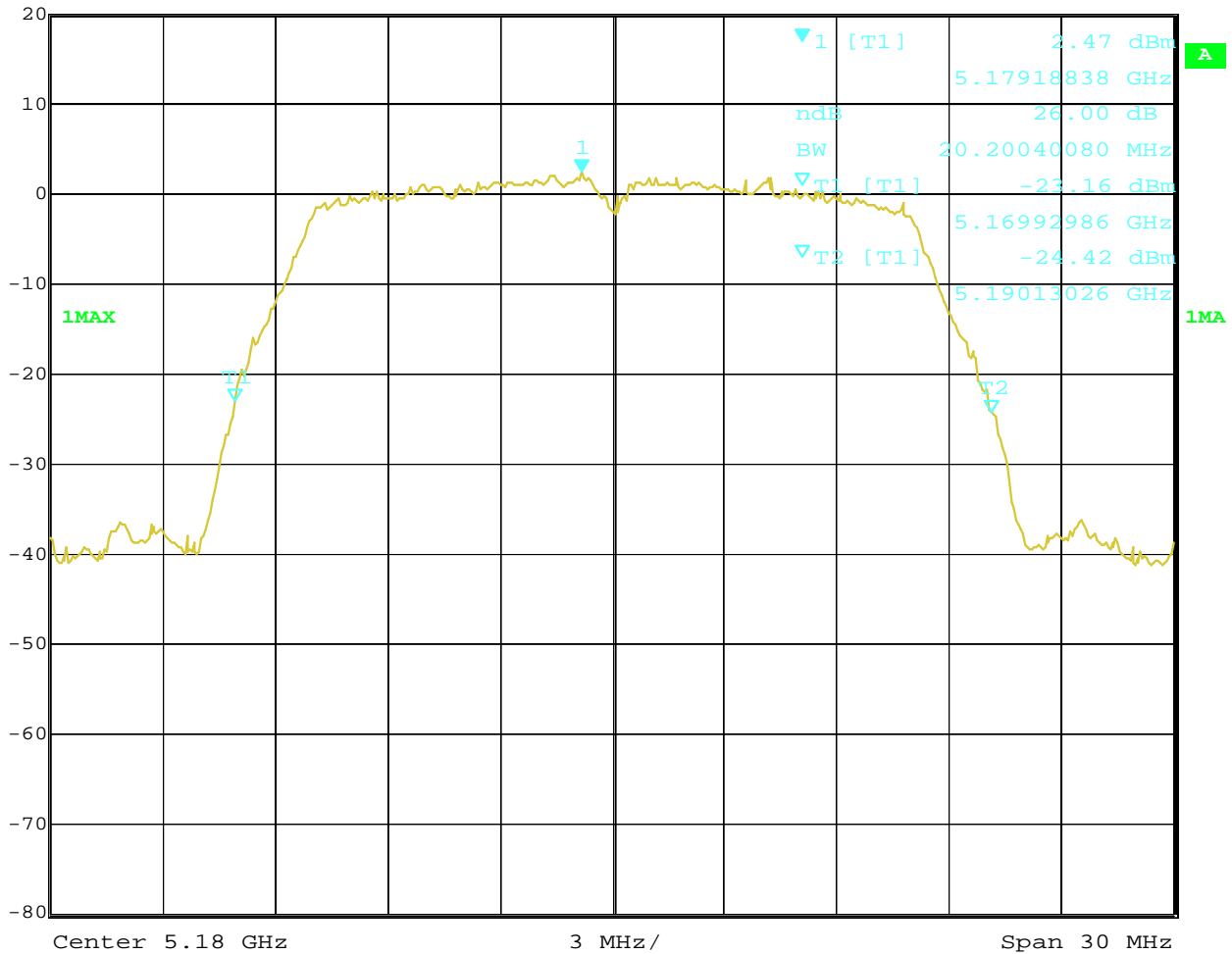


Test Configure

26dB Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 20.20040080 MHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 16:36:28

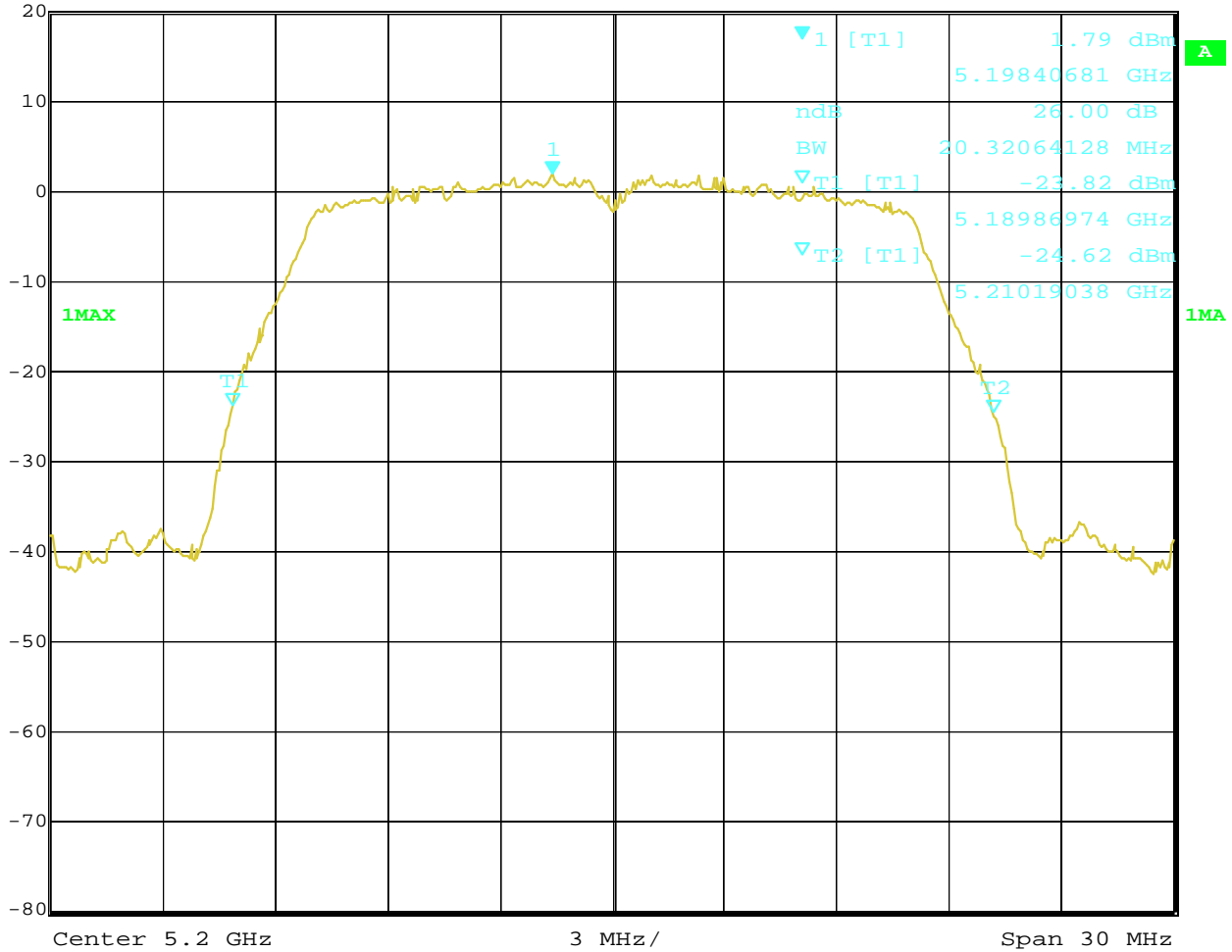
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Channel 40



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.32064128 MHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 19.MAY.2021 16:44:53

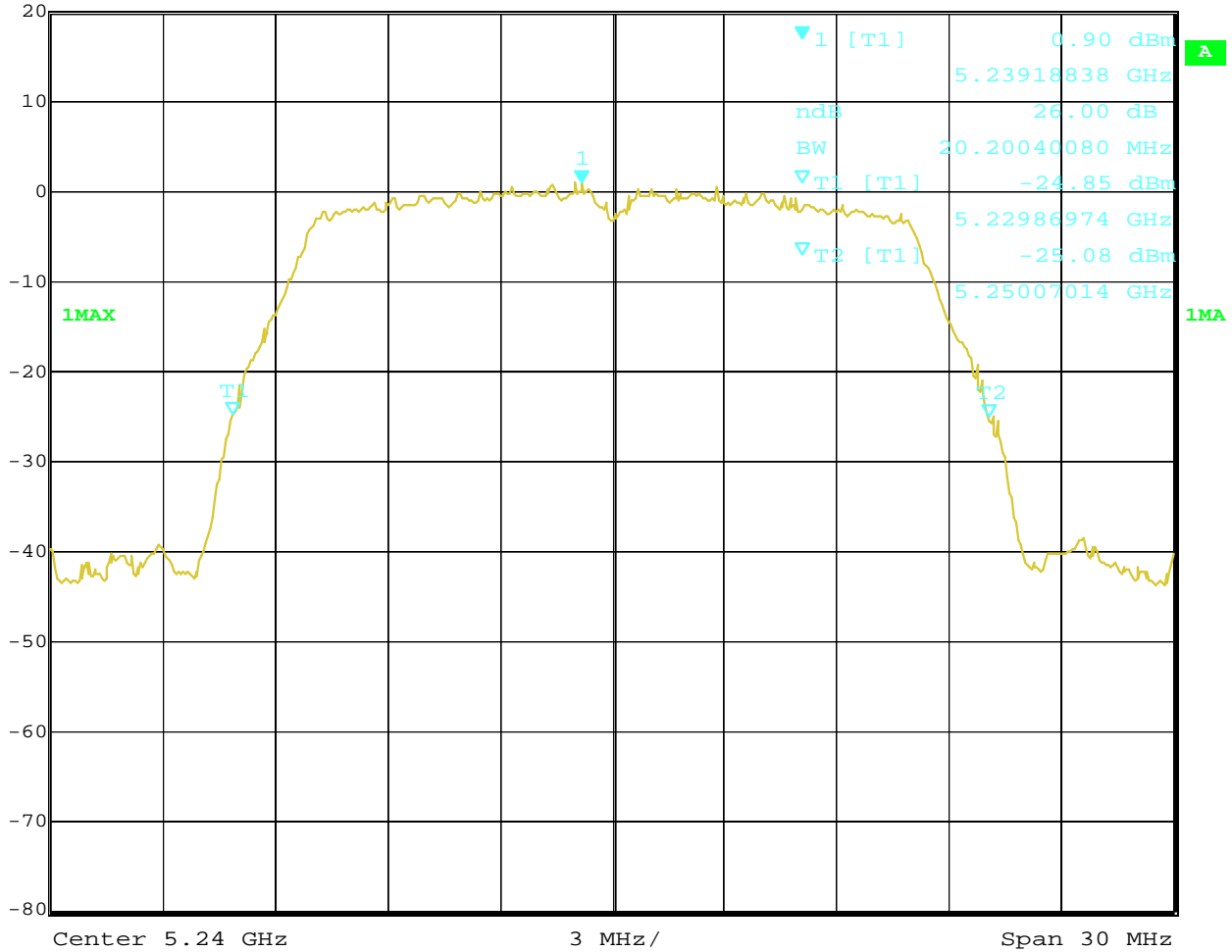
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Channel 48



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.20040080 MHz	VBW	1 MHz	Unit	dBm
		SWT	5 ms				



Date: 19.MAY.2021 16:50:36

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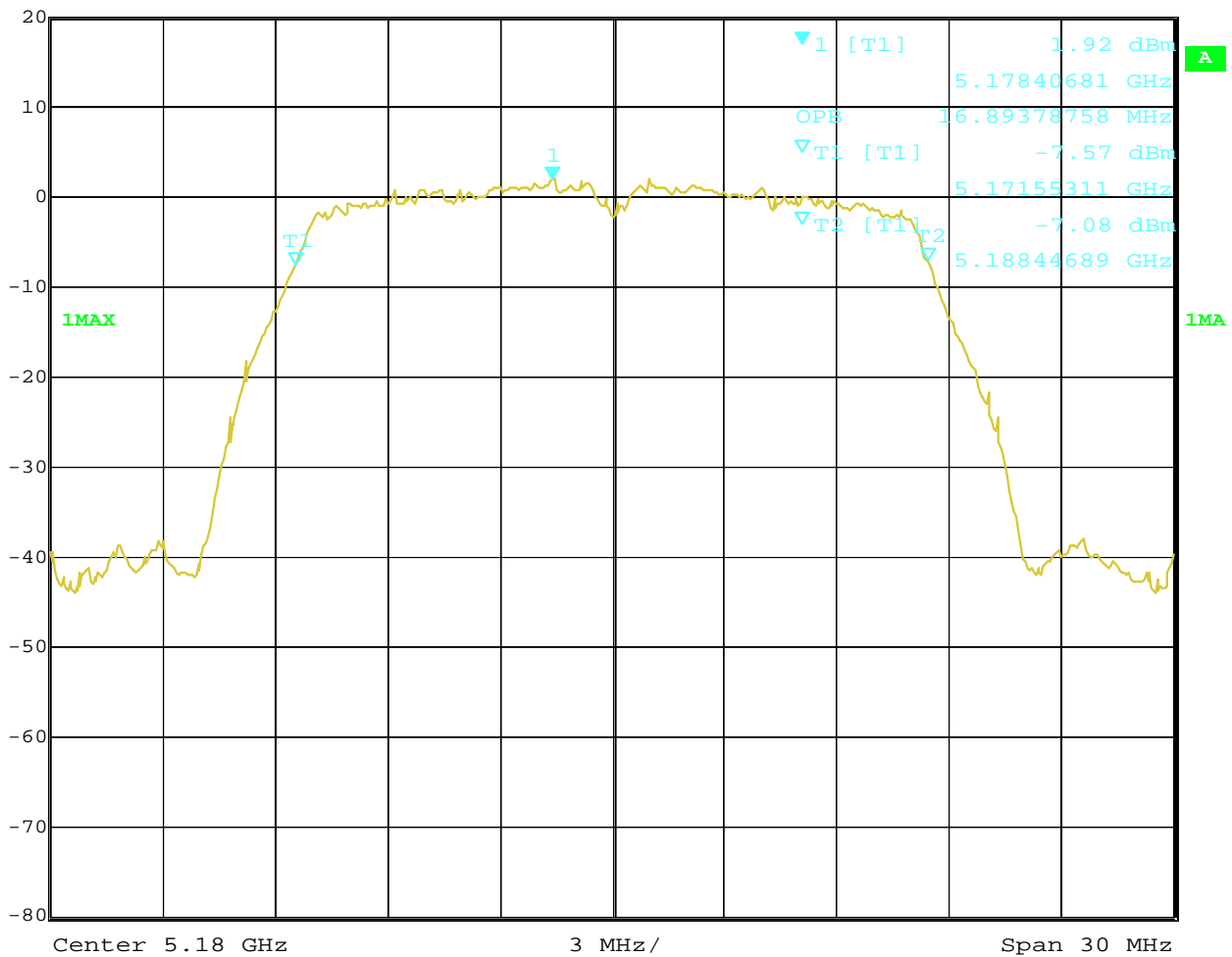


Test Configure

99% Bandwidth

Channel 36

	Ref Lvl	20 dBm	Marker 1 [T1]	1.92 dBm	RBW	300 kHz	RF Att	30 dB
			5.17840681 GHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 19.MAY.2021 17:41:47

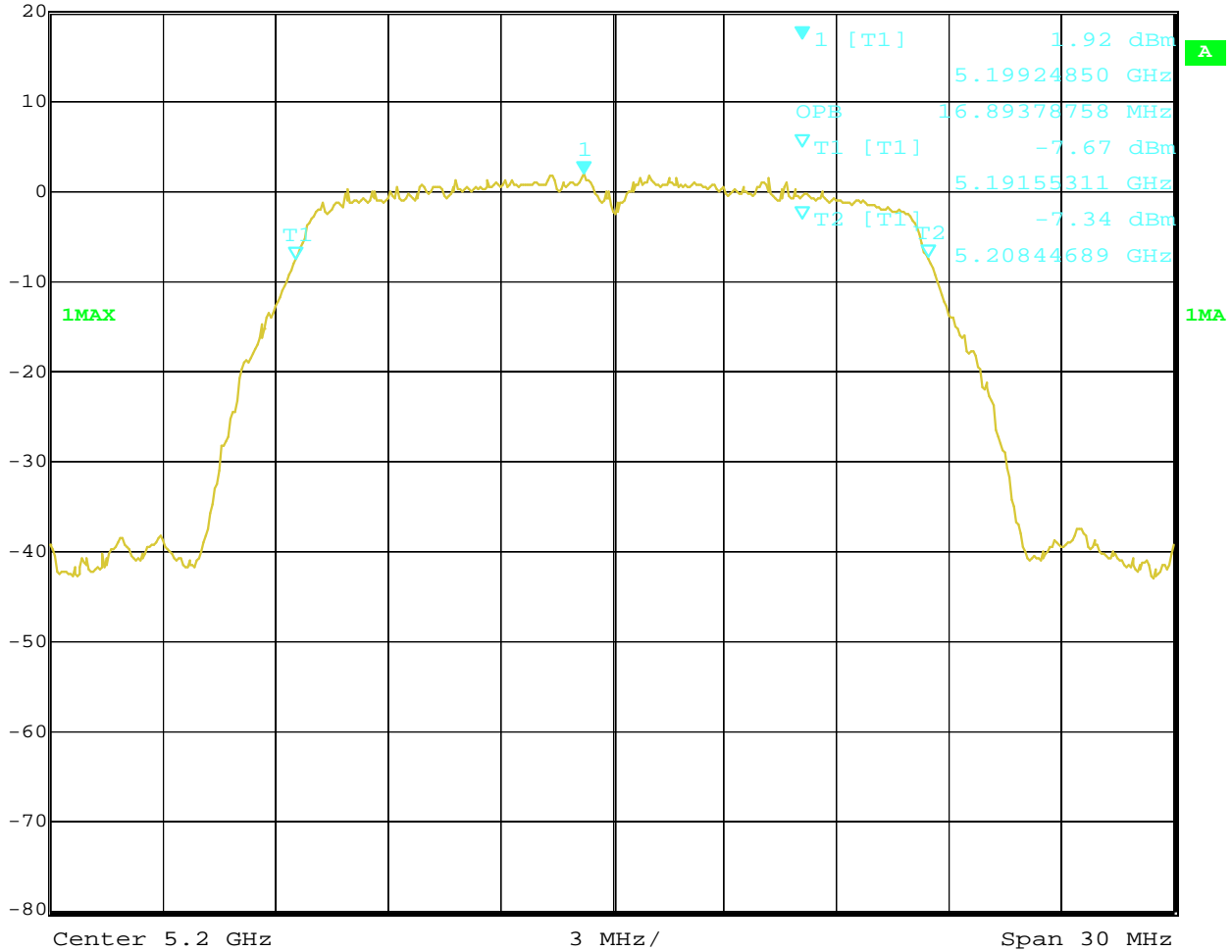
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Channel 40



Ref Lvl	20 dBm	Marker 1 [T1]	1.92 dBm	RBW	300 kHz	RF Att	30 dB
			5.19924850 GHz	VBW	1 MHz	Unit	dBm
				SWT	5 ms		



Date: 19.MAY.2021 17:52:13

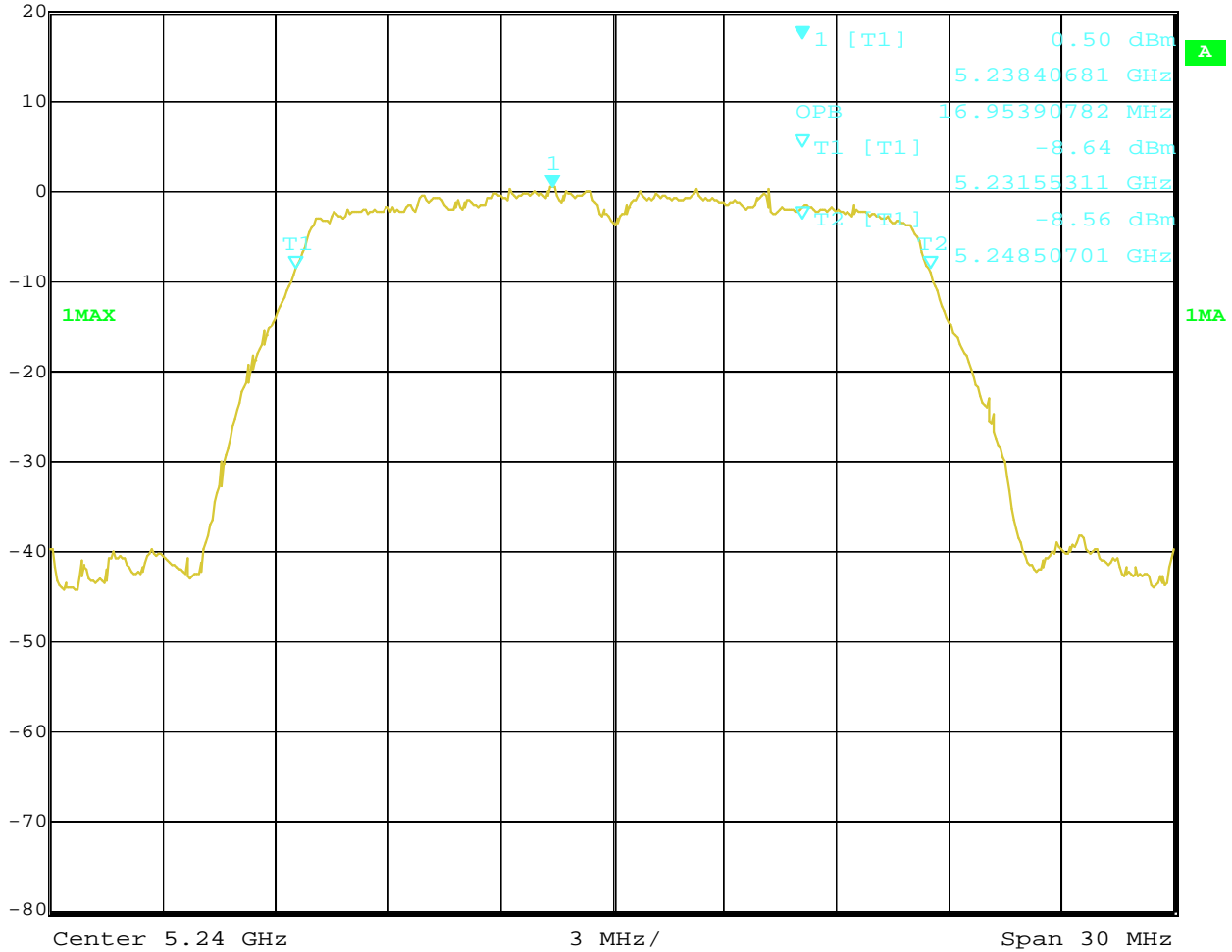
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Channel 48



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	0.50 dBm	VBW	1 MHz		
	5.23840681 GHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:54:55

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EUT		wireless router		Model	WR-AX01
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
26dB Bandwidth					
149	5745	6	20.68	--	Pass
153	5765	6	20.68	--	Pass
161	5805	6	20.68	--	Pass
6dB Bandwidth					
149	5745	6	17.01	0.5	Pass
153	5765	6	17.15	0.5	Pass
161	5805	6	16.95	0.5	Pass
99% Bandwidth					
149	5745	6	17.80	--	Pass
153	5765	6	17.80	--	Pass
161	5805	6	17.86	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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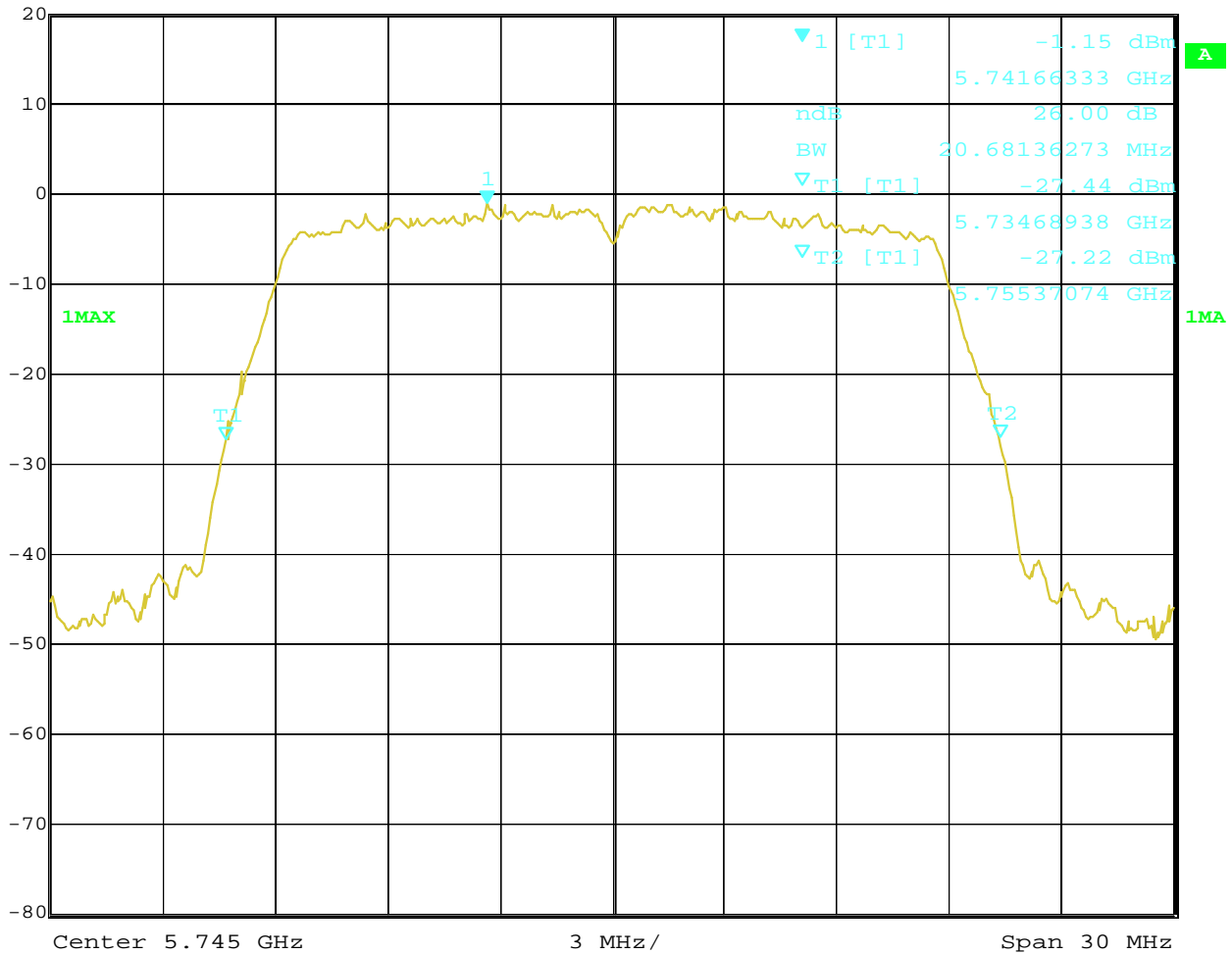


Test Configure

26dB Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 20.68136273 MHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 14:03:06

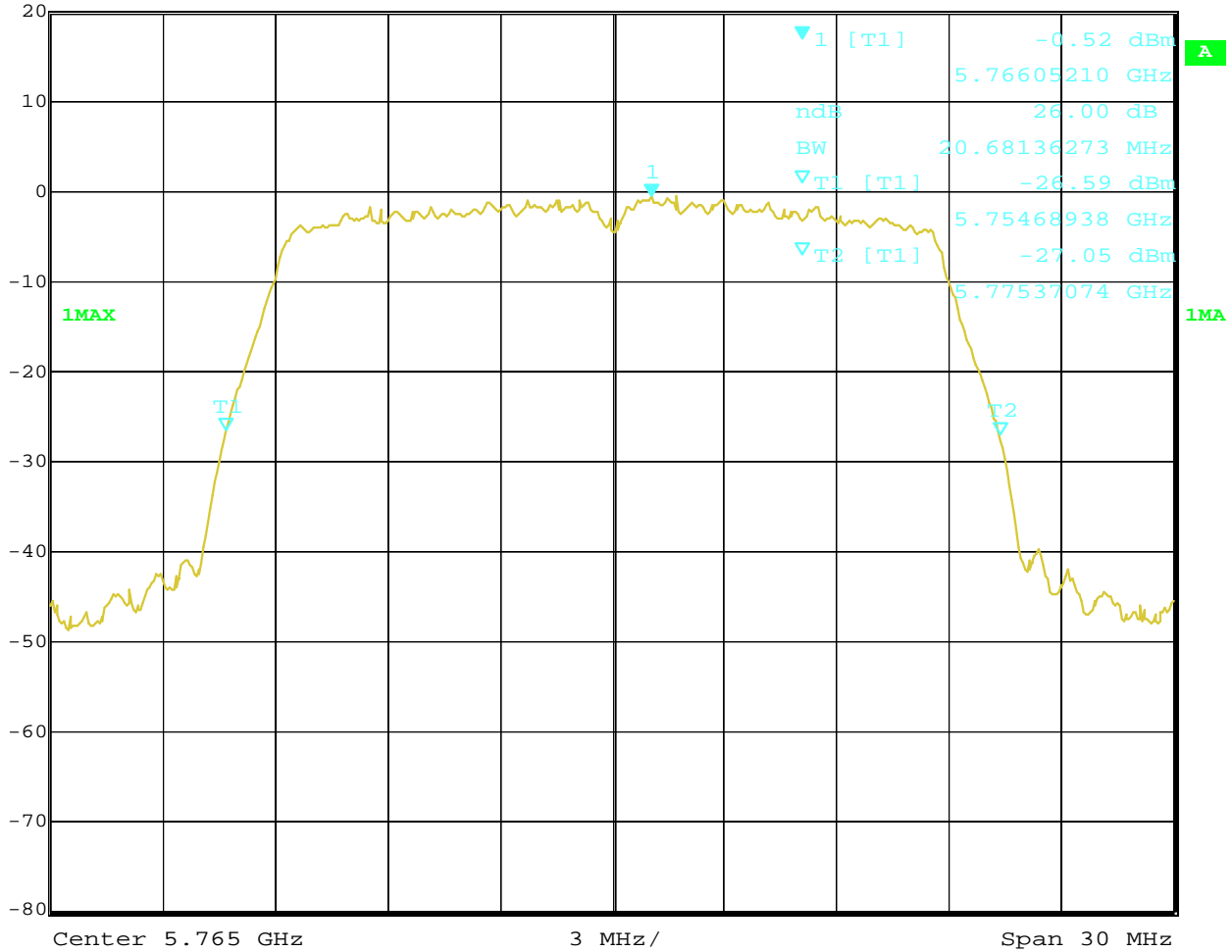
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Channel 153



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.68136273 MHz		VBW	1 MHz	Unit	dBm
					SWT	960 ms		



Date: 21.MAY.2021 13:38:30

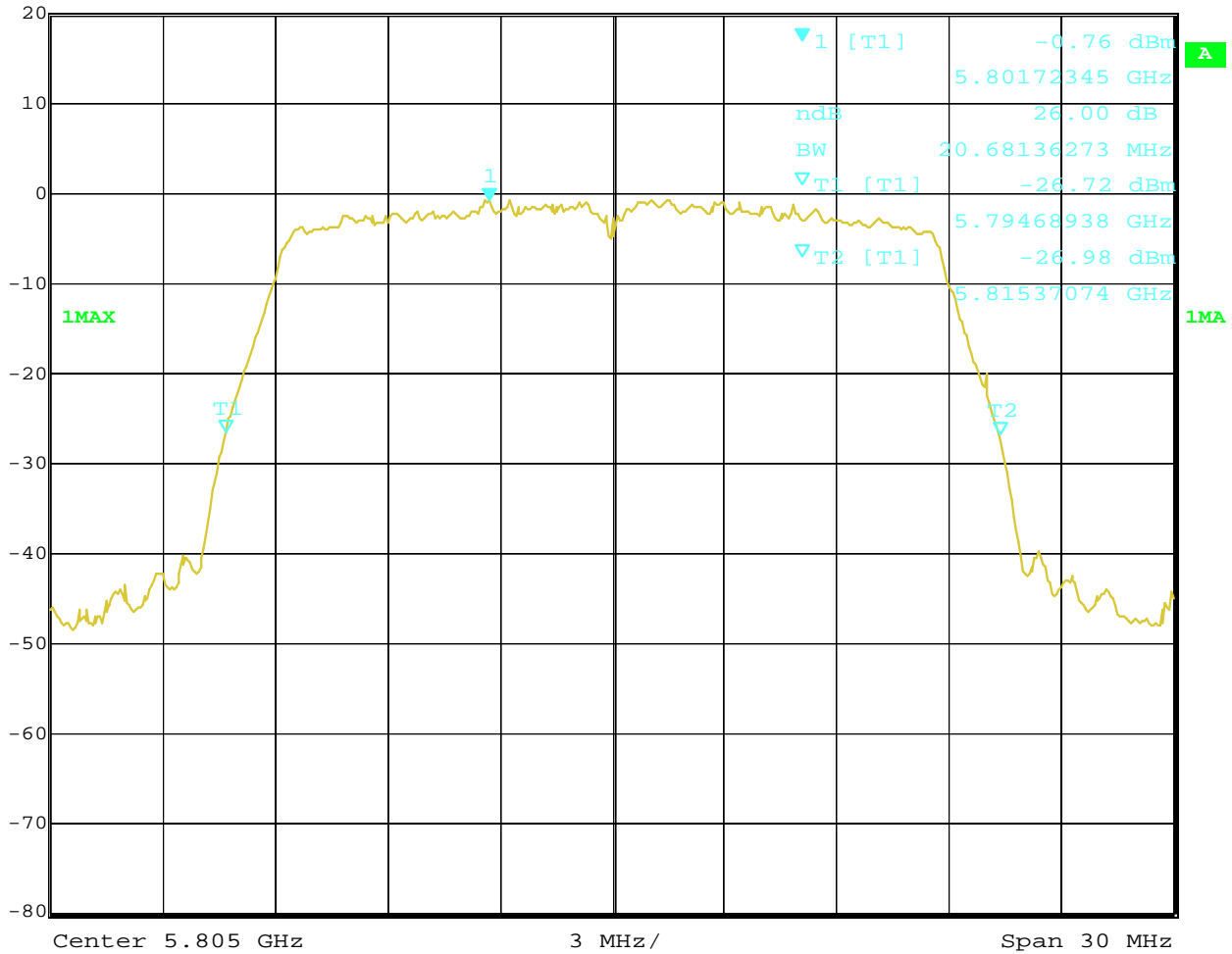
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Channel 161



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.68136273 MHz		VBW	1 MHz	Unit	dBm
					SWT	960 ms		



Date: 21.MAY.2021 13:40:19

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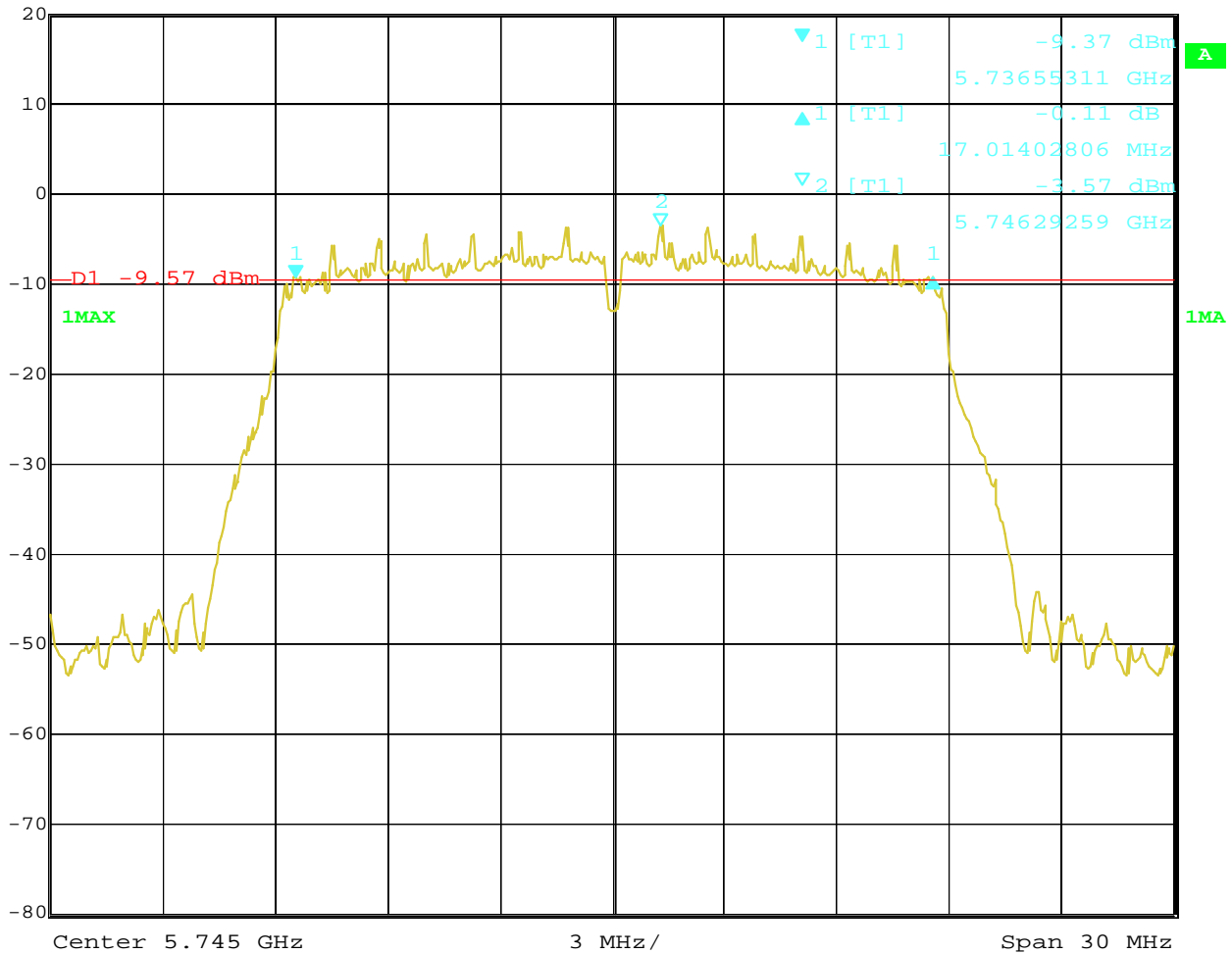


Test Configure

6dB Bandwidth

Channel 149

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.11 dB	VBW	300 kHz	
	20 dBm	17.01402806 MHz	SWT	7.5 ms	Unit dBm



Date: 20.MAY.2021 14:32:58

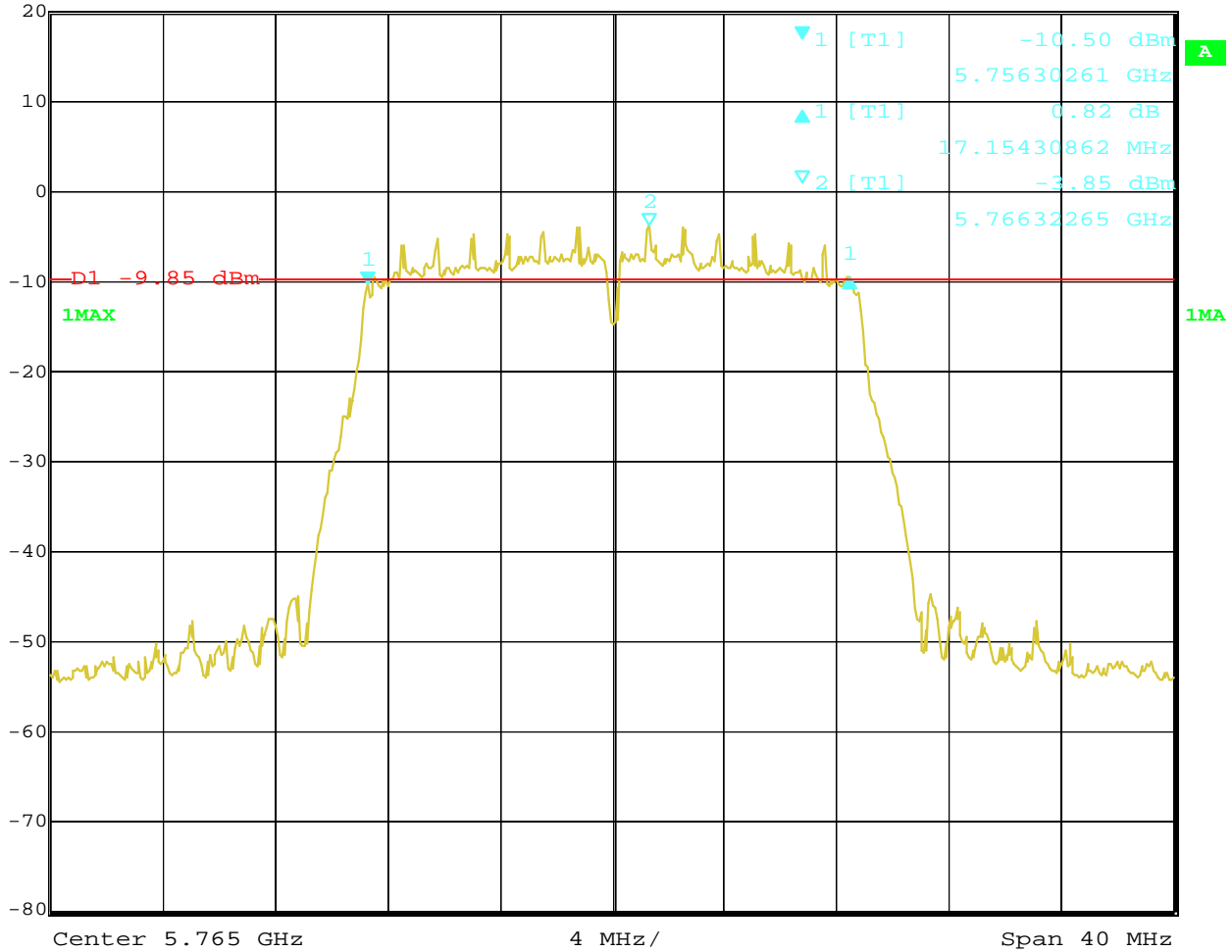
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Channel 153



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl 0.82 dB VBW 300 kHz
 20 dBm 17.15430862 MHz SWT 10 ms Unit dBm



Date: 20.MAY.2021 15:46:42

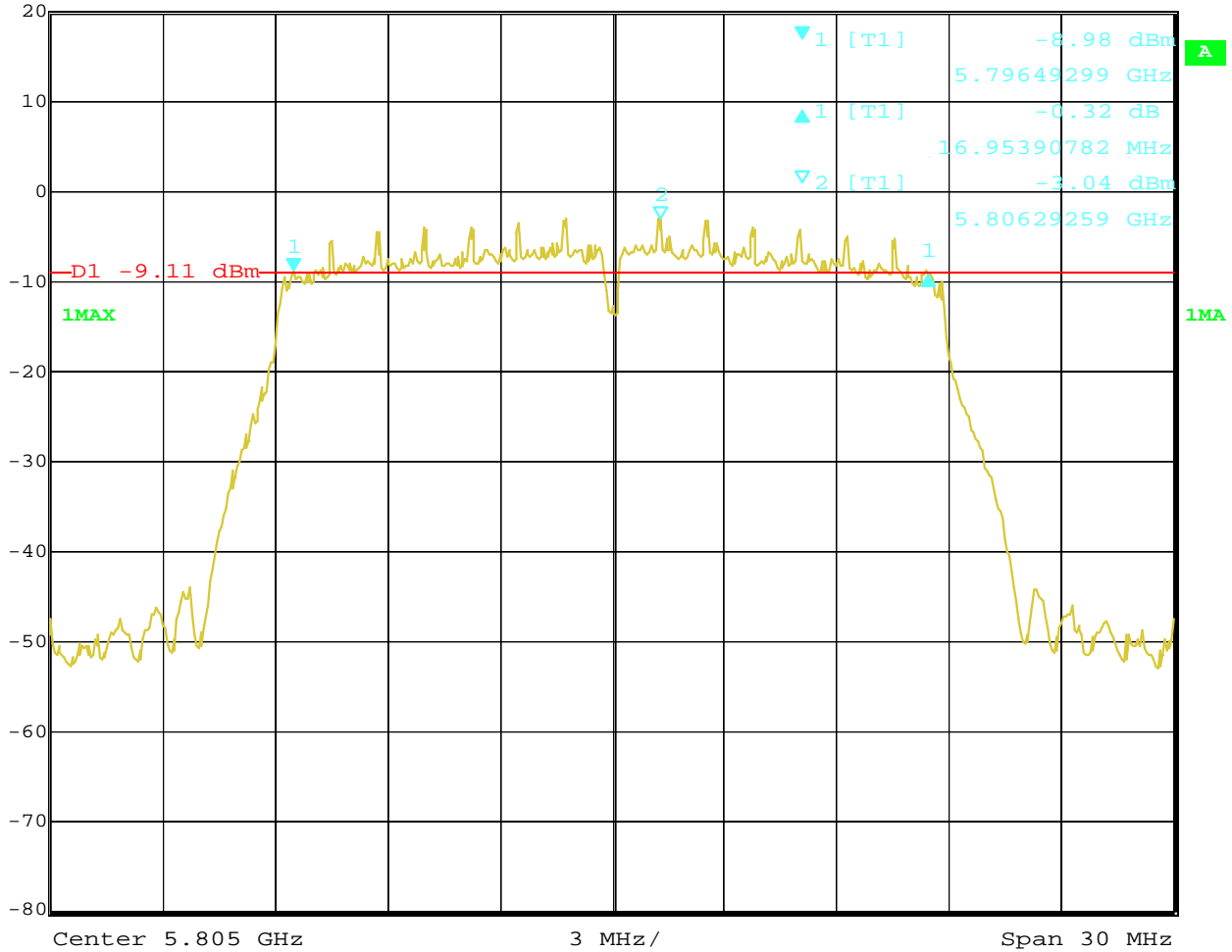
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Channel 161



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl -0.32 dB VBW 300 kHz
 20 dBm 16.95390782 MHz SWT 960 ms Unit dBm



Date: 21.MAY.2021 13:35:23

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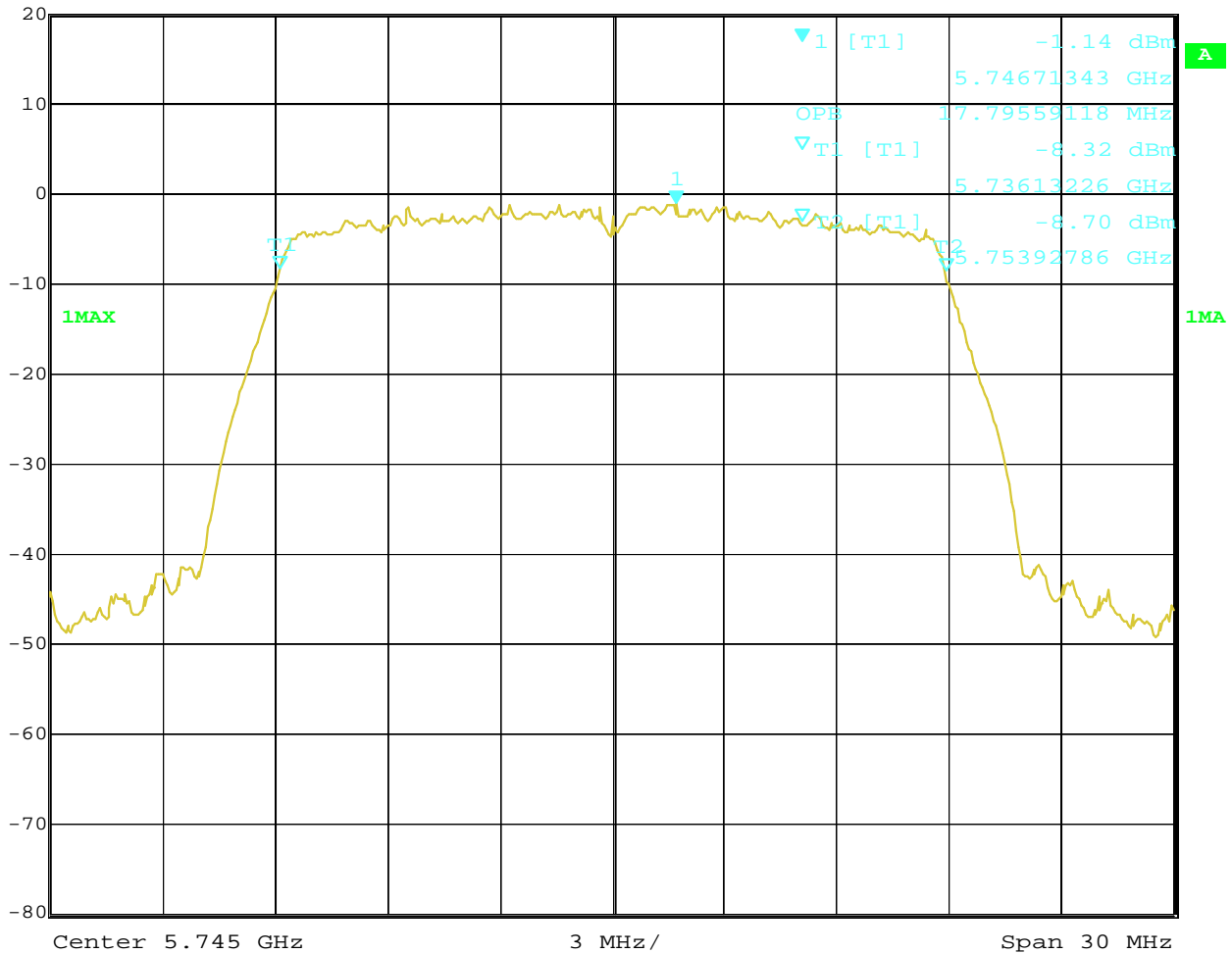


Test Configure

99% Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	-1.14 dBm	VBW	1 MHz		
		5.74671343 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 14:10:46

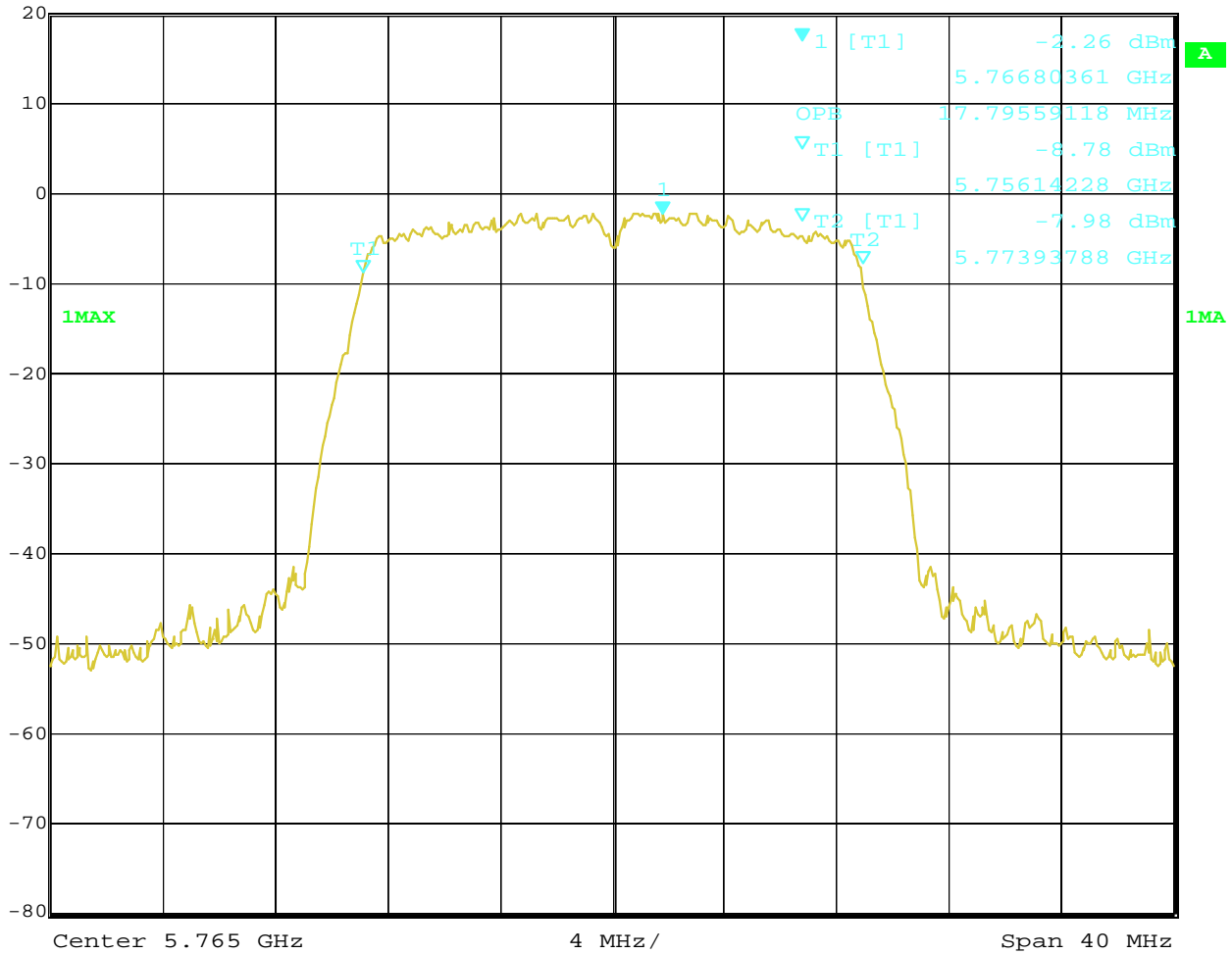
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Channel 153



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	-2.26 dBm	VBW	1 MHz		
	5.76680361 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 15:28:21

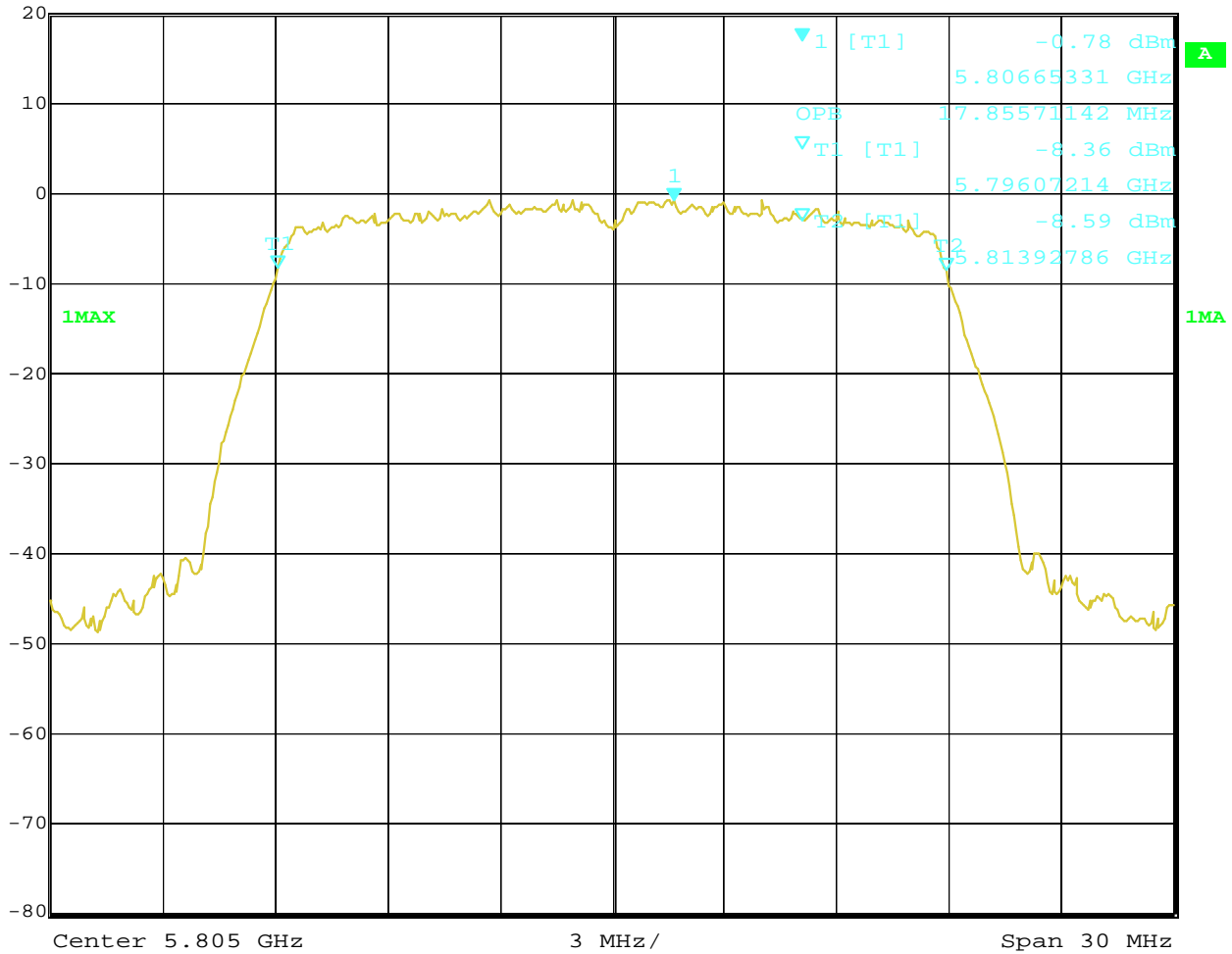
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Channel 161



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	-0.78 dBm	VBW	1 MHz		
	5.80665331 GHz	SWT	960 ms	Unit	dBm



Date: 21.MAY.2021 13:41:32

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EUT		wireless router		Model	WR-AX01
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
26dB Bandwidth					
38	5190	mcs0	41.24	--	Pass
46	5230	mcs0	40.88	--	Pass
99% Bandwidth					
38	5190	mcs0	36.07	--	Pass
46	5230	mcs0	36.07	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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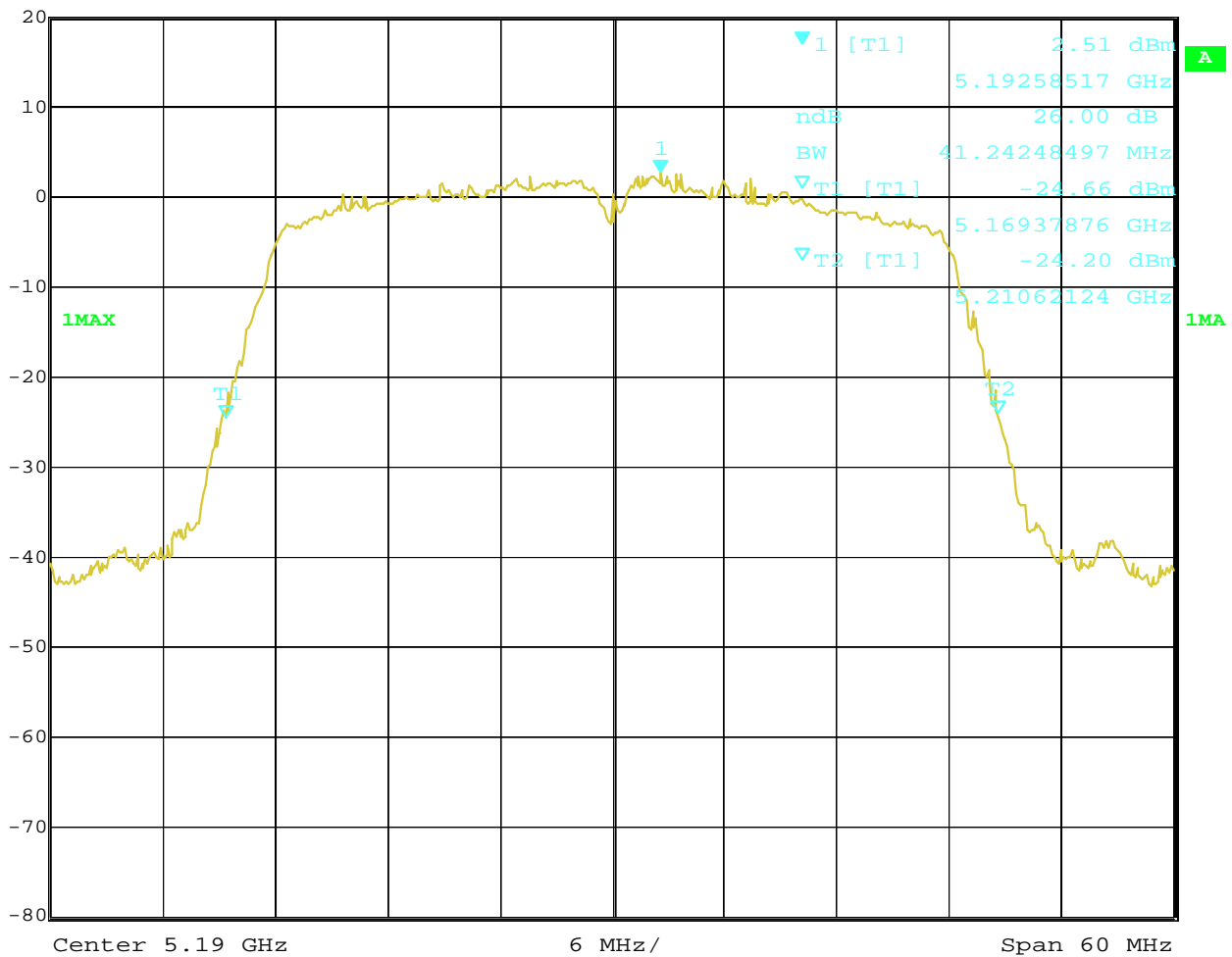


Test Configure

26dB Bandwidth

Channel 38

	Ref Lvl	Marker 1 [T1 ndB]	RBW	1 MHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	3 MHz		
		BW 41.24248497 MHz	SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:40:15

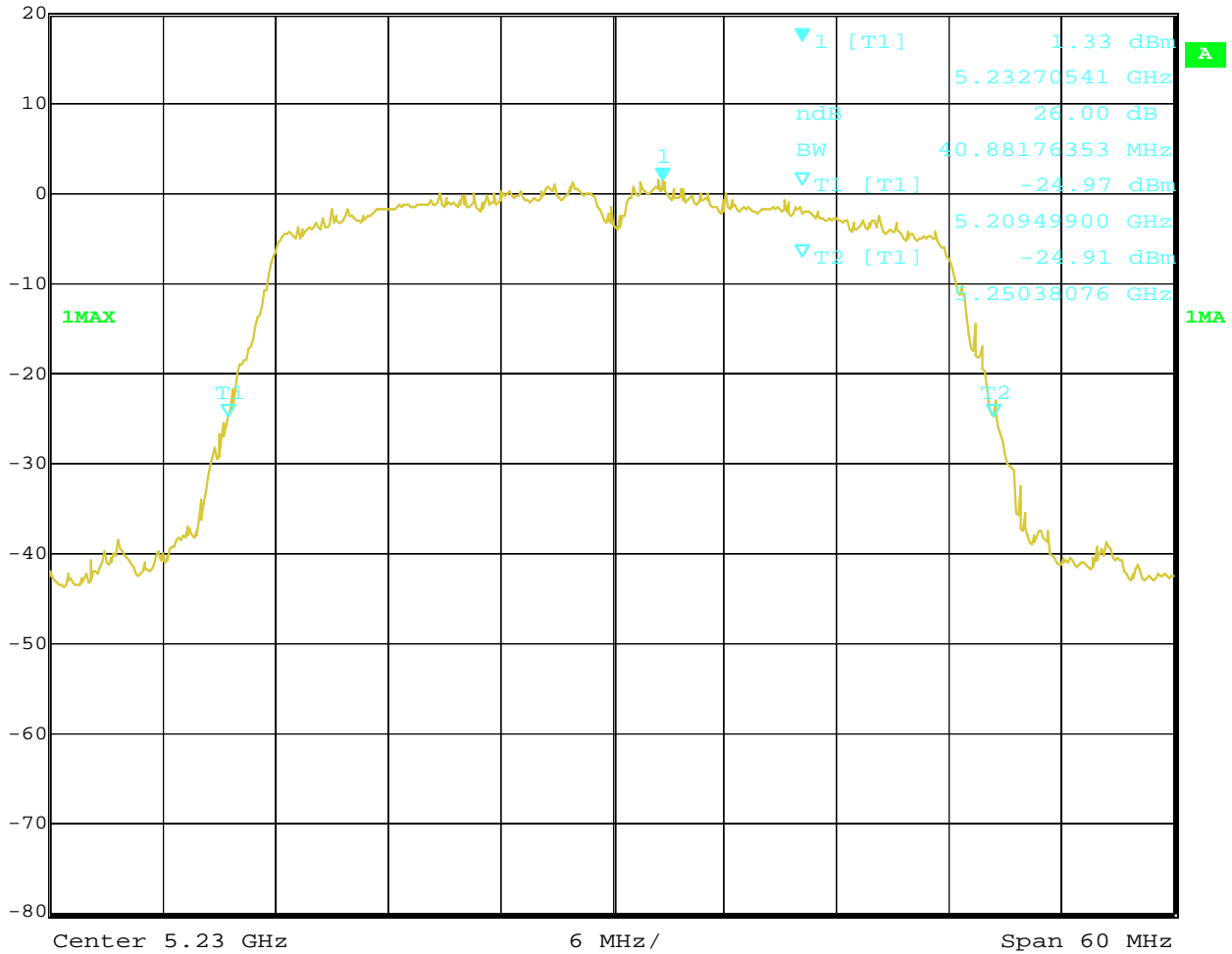
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Channel 46



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	40.88176353 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 22.MAY.2021 18:42:26

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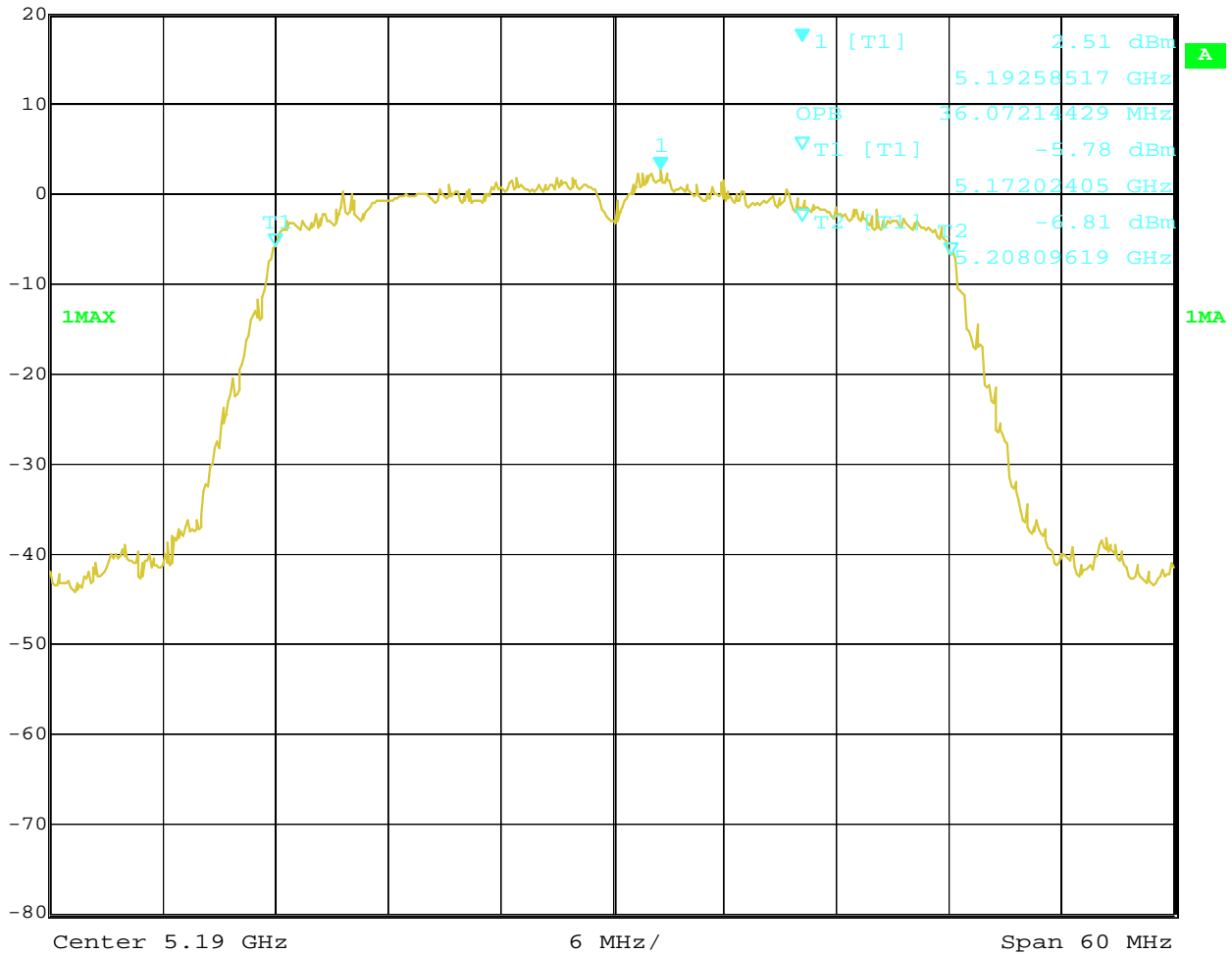


Test Configure

99% Bandwidth

Channel 38

RS	Ref Lvl	20 dBm	Marker 1 [T1]	2.51 dBm	RBW	1 MHz	RF Att	30 dB
			5.19258517 GHz		VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:39:45

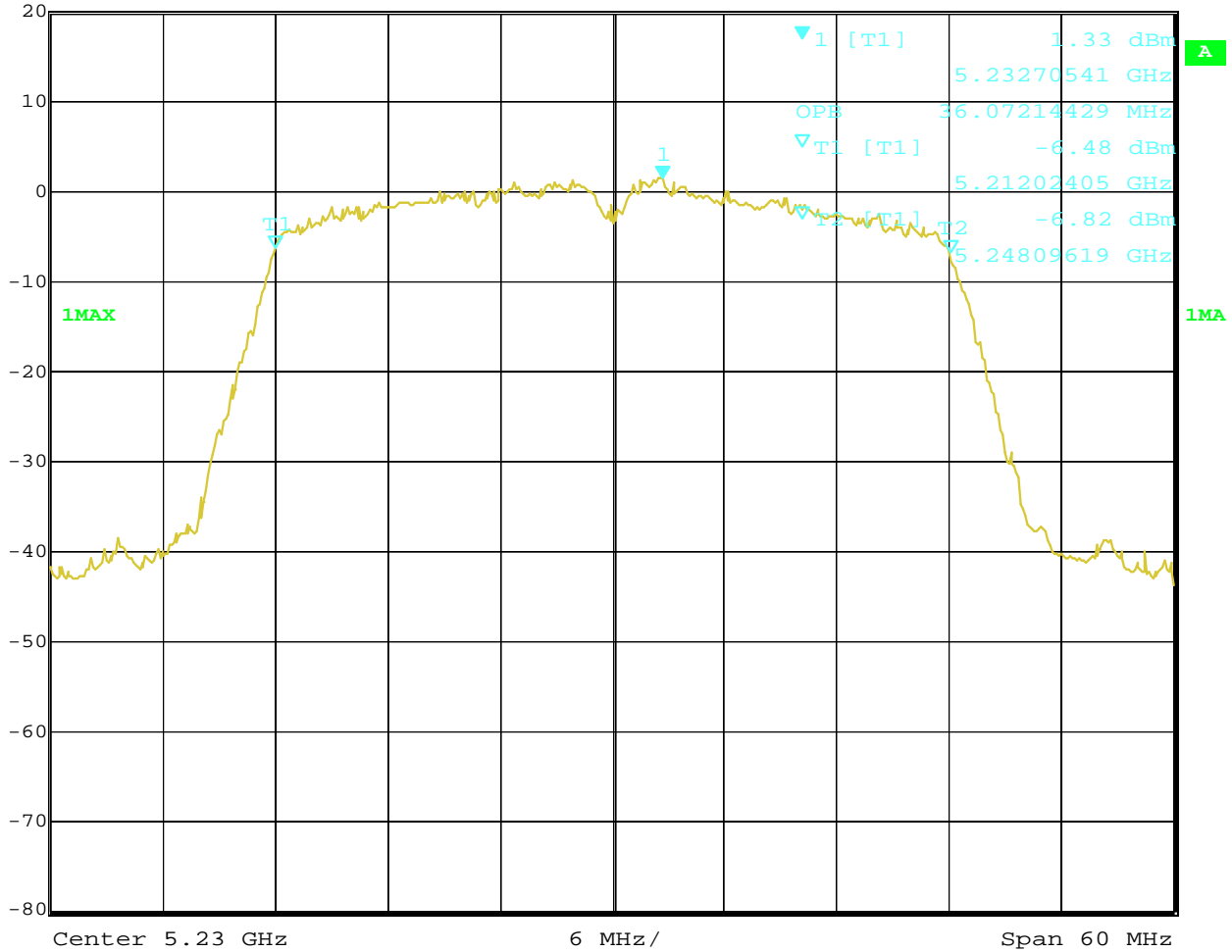
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Channel 46



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	1.33 dBm	VBW	3 MHz		
	5.23270541 GHz	SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:42:45

The report refers only to the sample tested and does not apply to the bulk.
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EUT		wireless router		Model	WR-AX01
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
26dB Bandwidth					
151	5755	mcs0	41.36	--	Pass
159	5795	mcs0	41.12	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.11	0.5	Pass
159	5795	mcs0	35.11	0.5	Pass
99% Bandwidth					
151	5755	mcs0	36.19	--	Pass
159	5795	mcs0	36.07	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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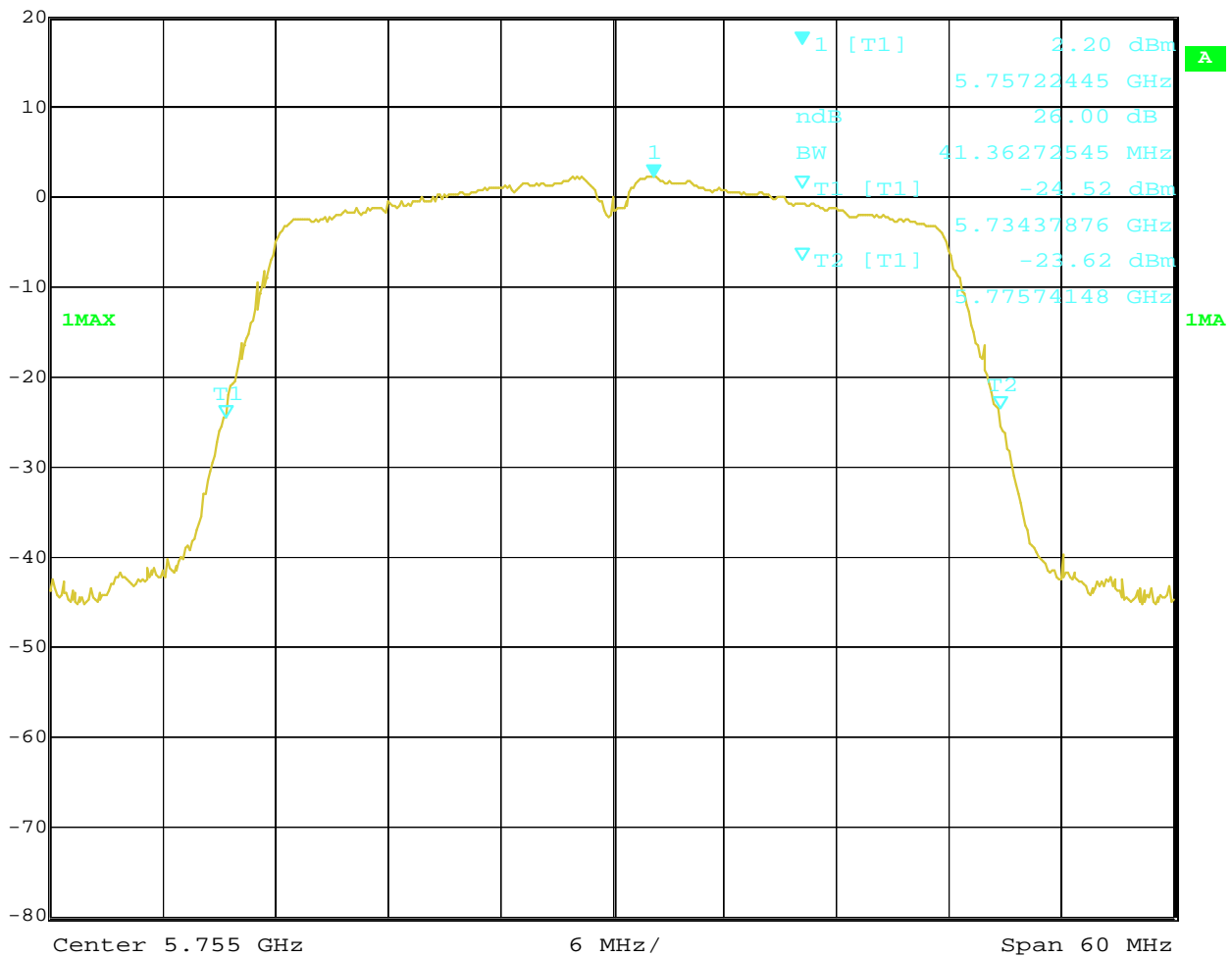


Test Configure

26dB Bandwidth

Channel 151

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB	
			BW	41.36272545 MHz	VBW	3 MHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 16:25:32

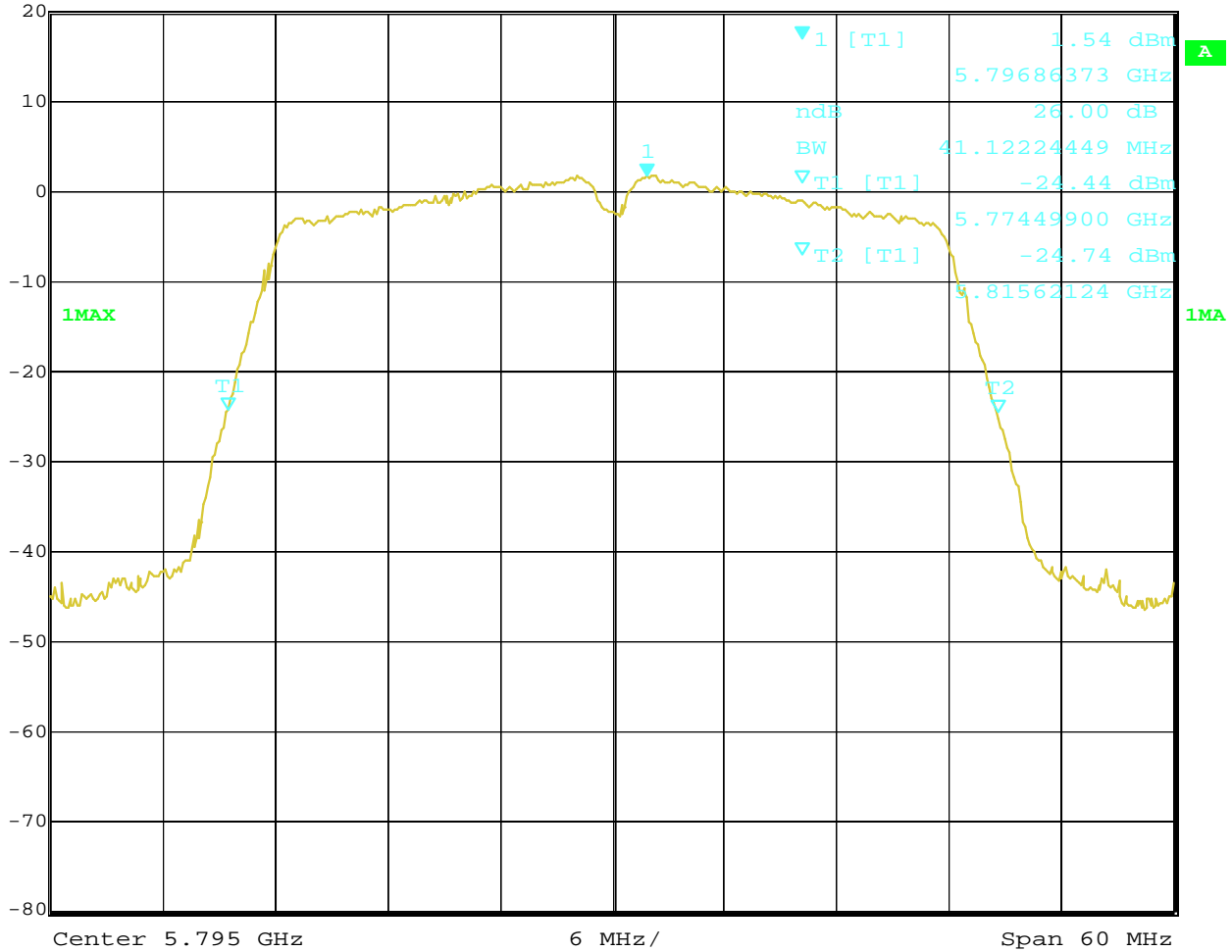
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Channel 159



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	41.12224449 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 20.MAY.2021 17:05:42

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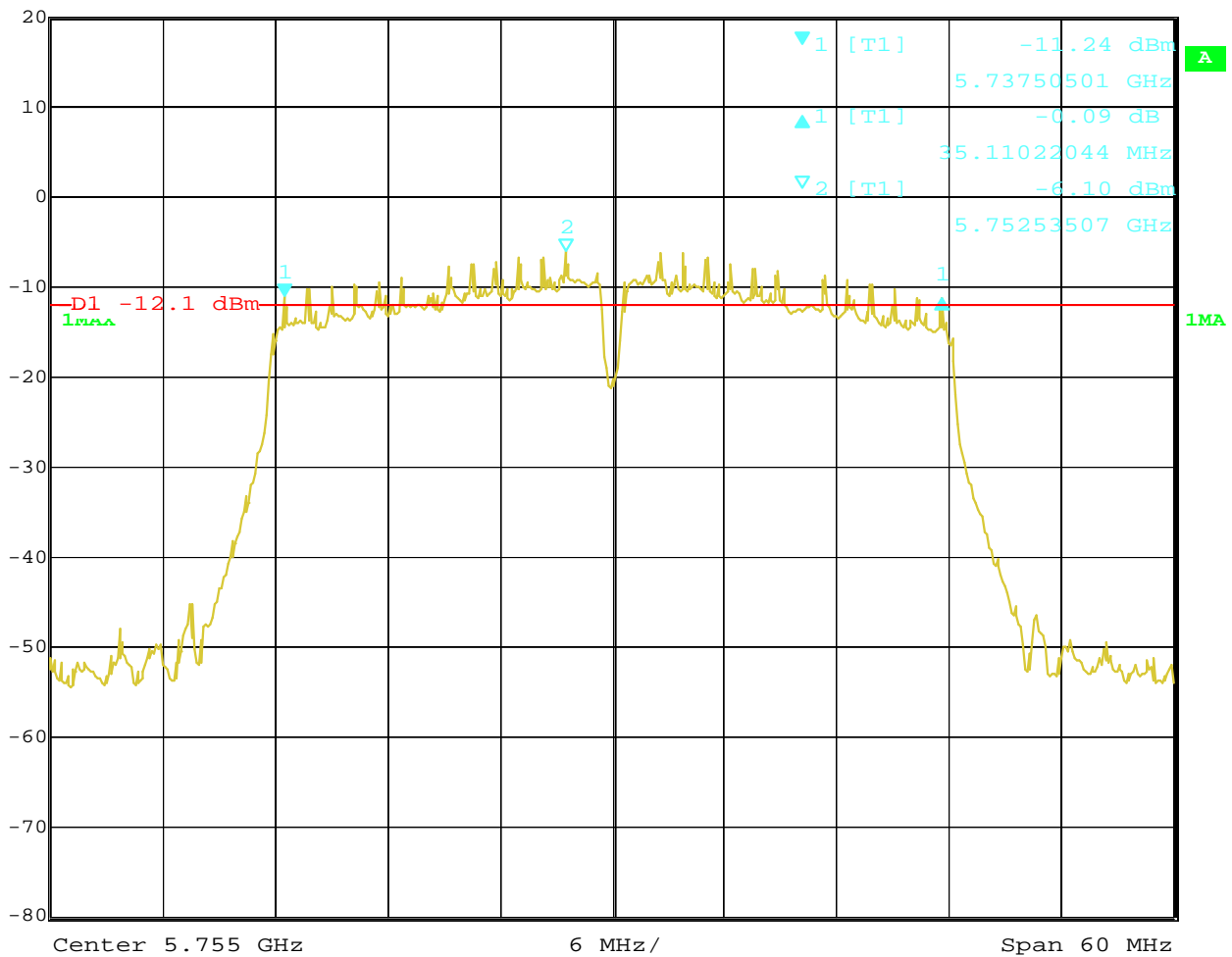


Test Configure

6dB Bandwidth

Channel 151

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.09 dB	VBW	300 kHz	
	20 dBm	35.11022044 MHz	SWT	15 ms	Unit dBm



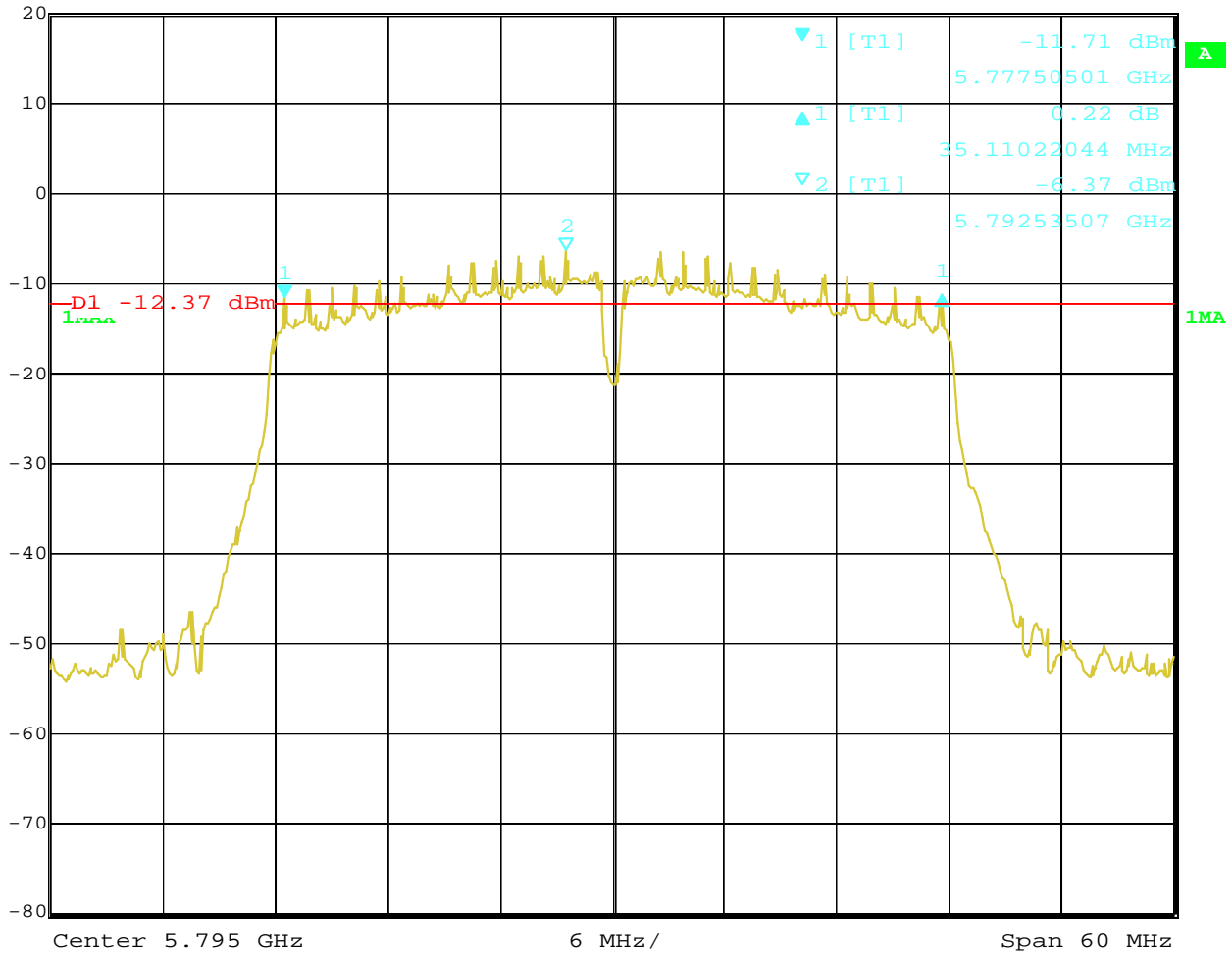
Date: 20.MAY.2021 17:00:44

The report refers only to the sample tested and does not apply to the bulk.
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Channel 159


Delta 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl 0.22 dB
VBW 300 kHz
20 dBm
35.11022044 MHz
SWT 15 ms
Unit dBm



Date: 20.MAY.2021 17:12:26

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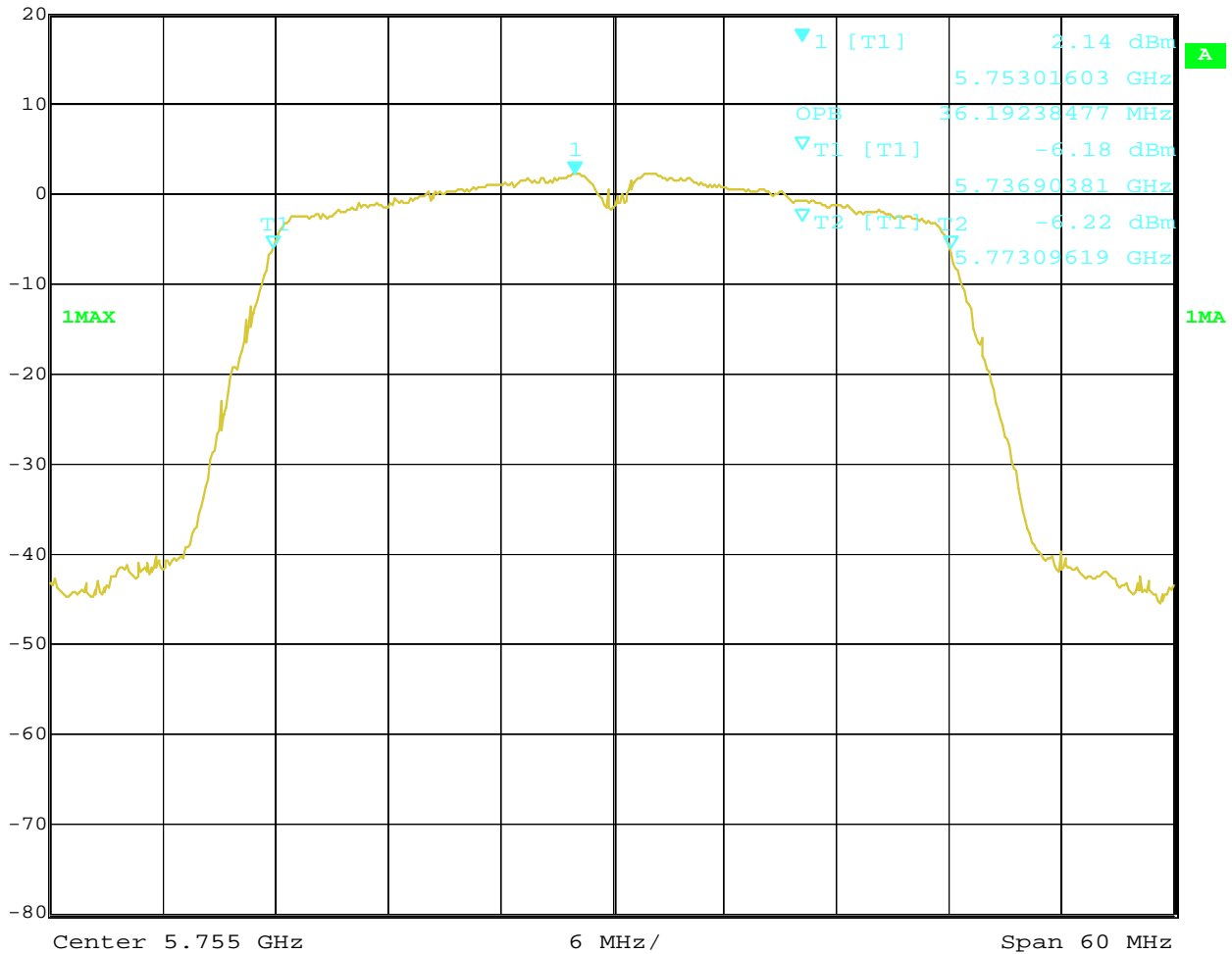


Test Configure

99% Bandwidth

Channel 151

	Ref Lvl	20 dBm	Marker 1 [T1]	2.14 dBm	RBW	1 MHz	RF Att	30 dB
			5.75301603 GHz		VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 16:27:32

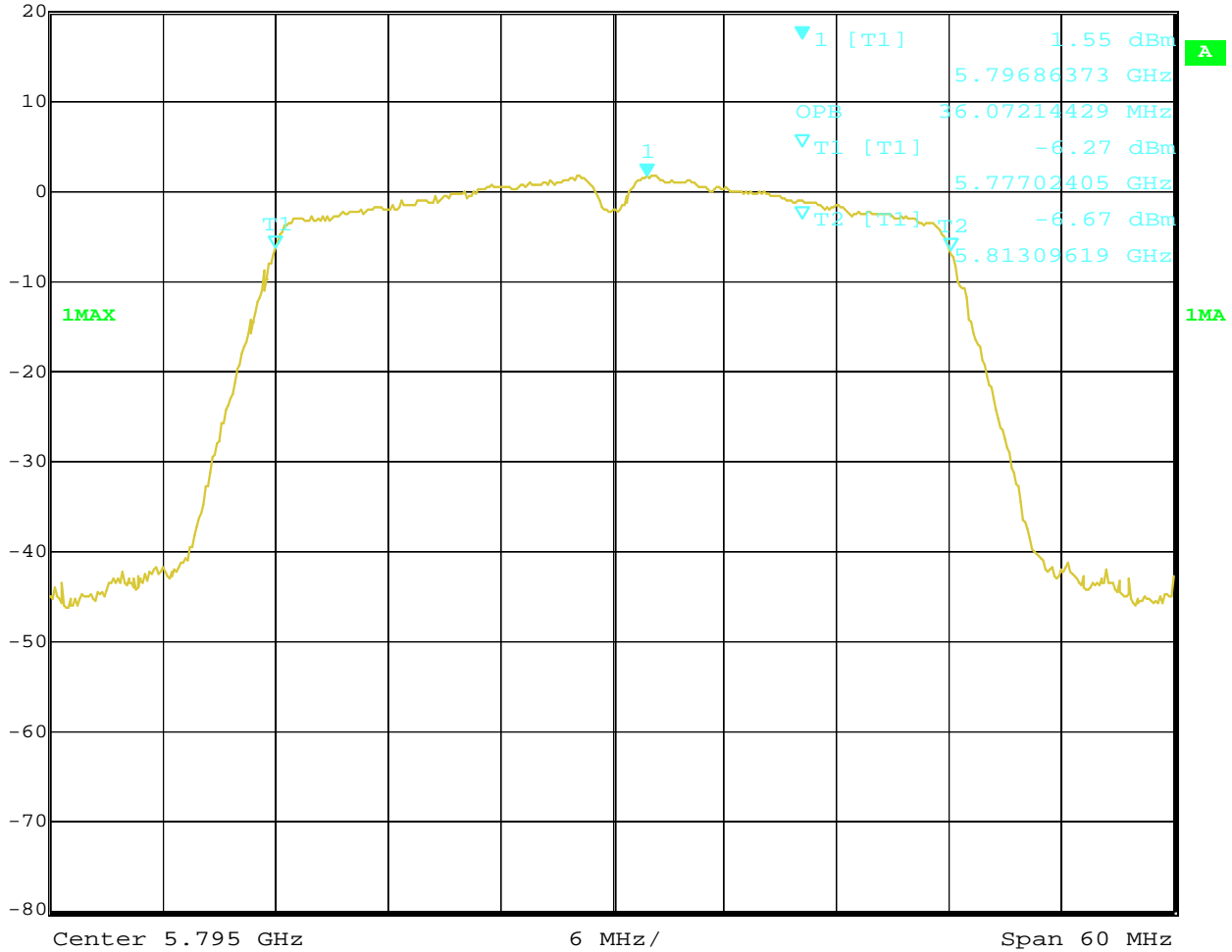
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Channel 159



Ref Lvl	20 dBm	Marker 1 [T1]	1.55 dBm	5.79686373 GHz	RBW	1 MHz	RF Att	30 dB
					VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 17:05:53

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EUT		wireless router		Model	WR-AX01
Mode		802.11ac VHT20		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					
36	5180	mcs0	20.62	--	Pass
40	5200	mcs0	20.68	--	Pass
48	5240	mcs0	20.62	--	Pass
99% Bandwidth					
36	5180	mcs0	17.80	--	Pass
40	5200	mcs0	17.80	--	Pass
48	5240	mcs0	17.80	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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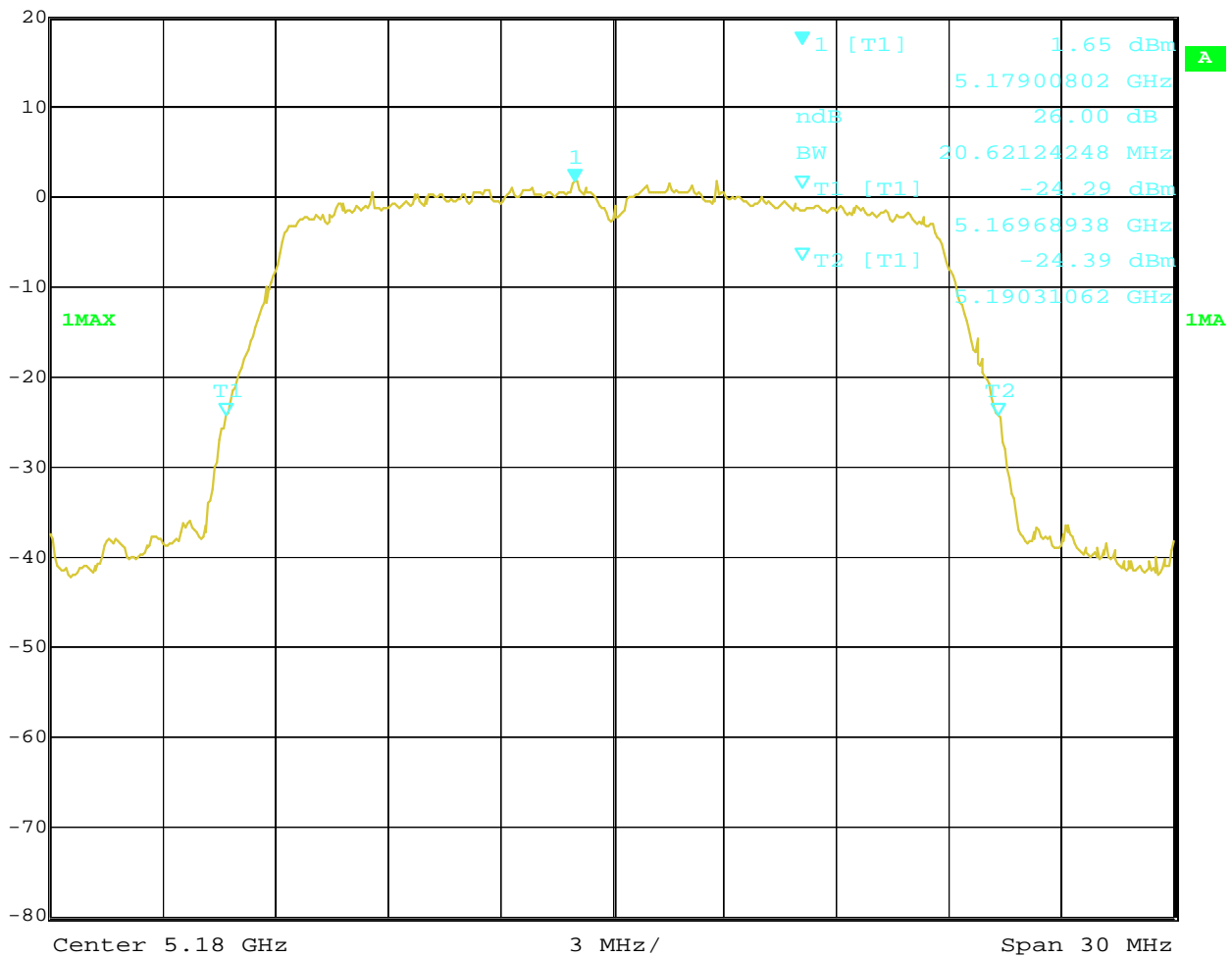


Test Configure

26dB Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 20.62124248 MHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:21:49

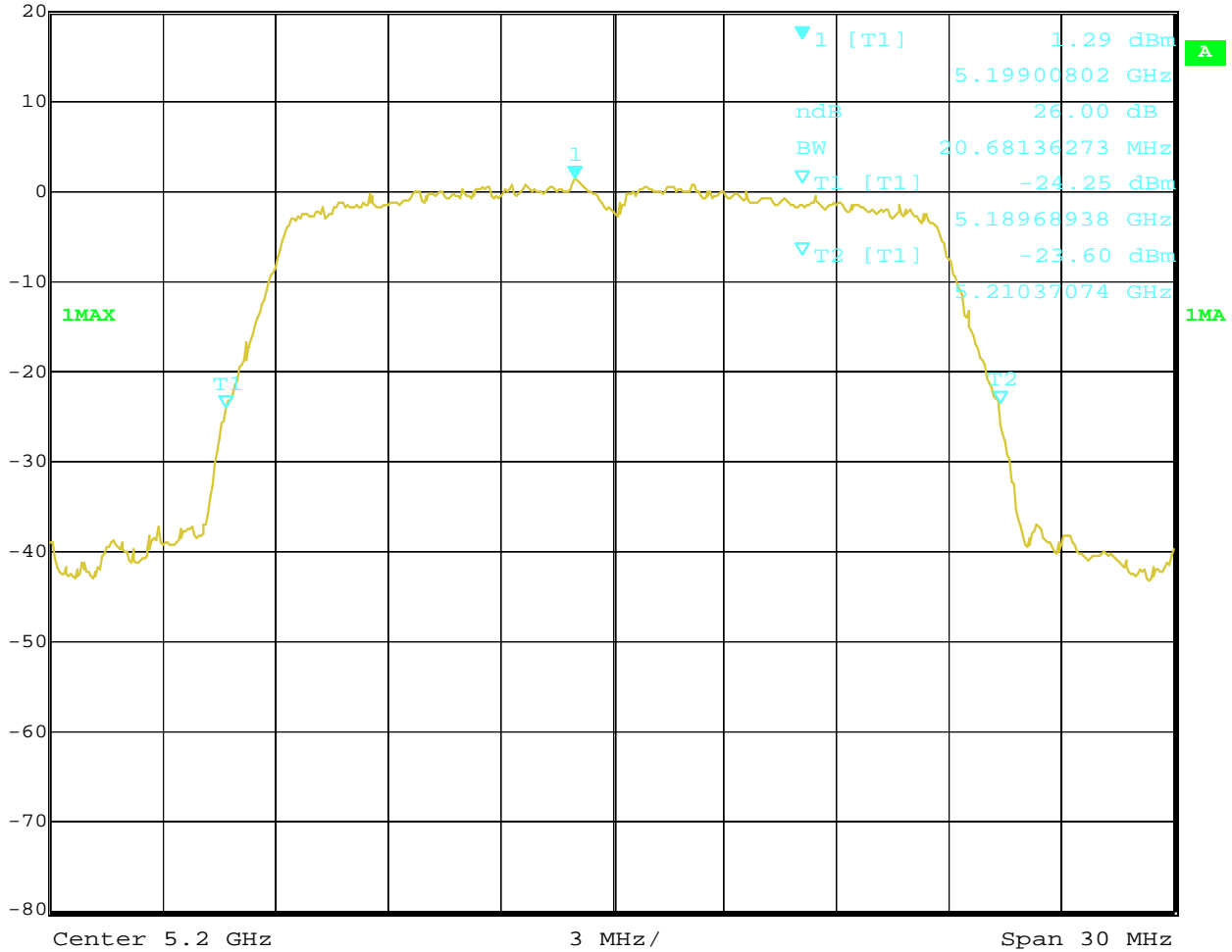
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Channel 40



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.68136273 MHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 19.MAY.2021 17:28:49

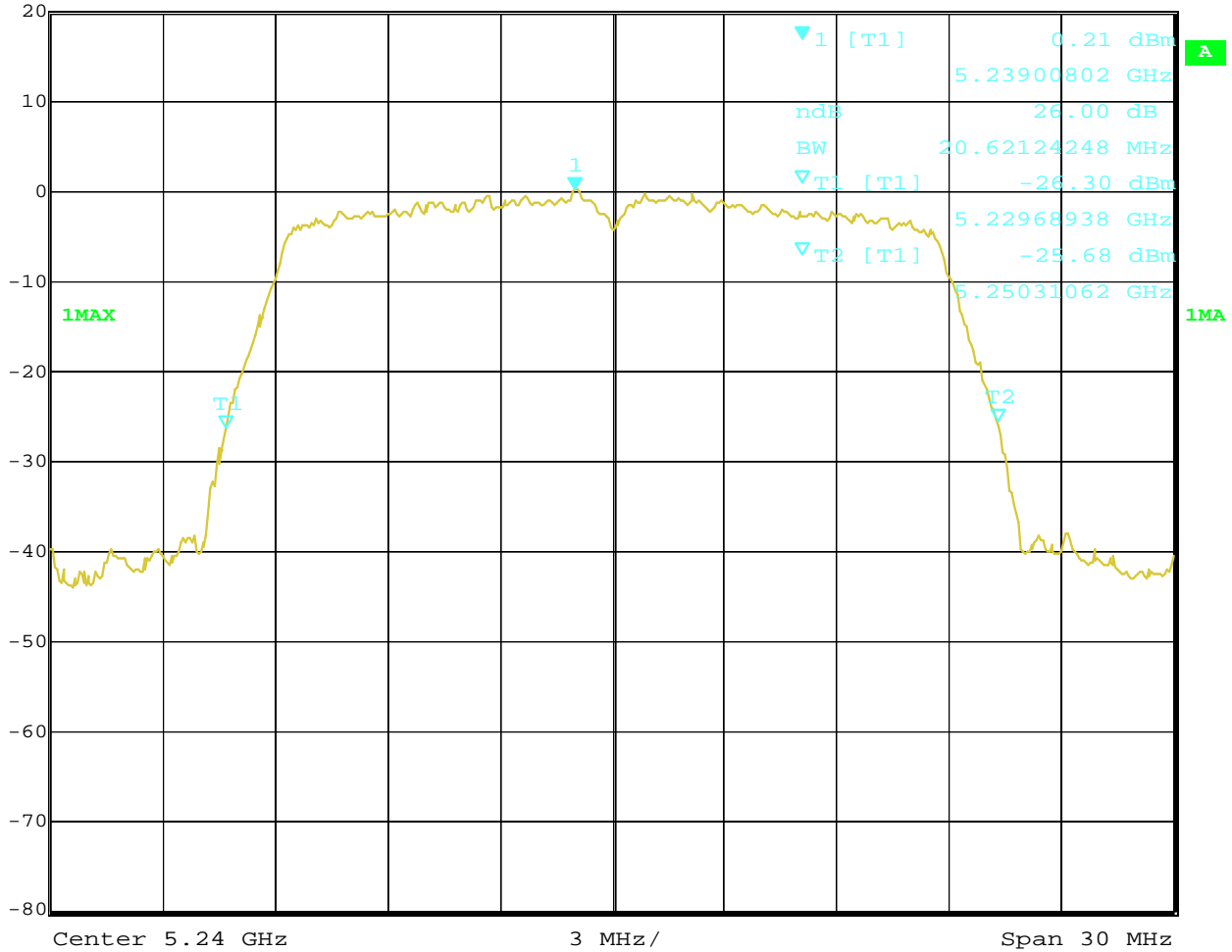
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Channel 48



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.62124248 MHz		VBW	1 MHz	Unit	dBm
					SWT	5 ms		



Date: 19.MAY.2021 17:32:00

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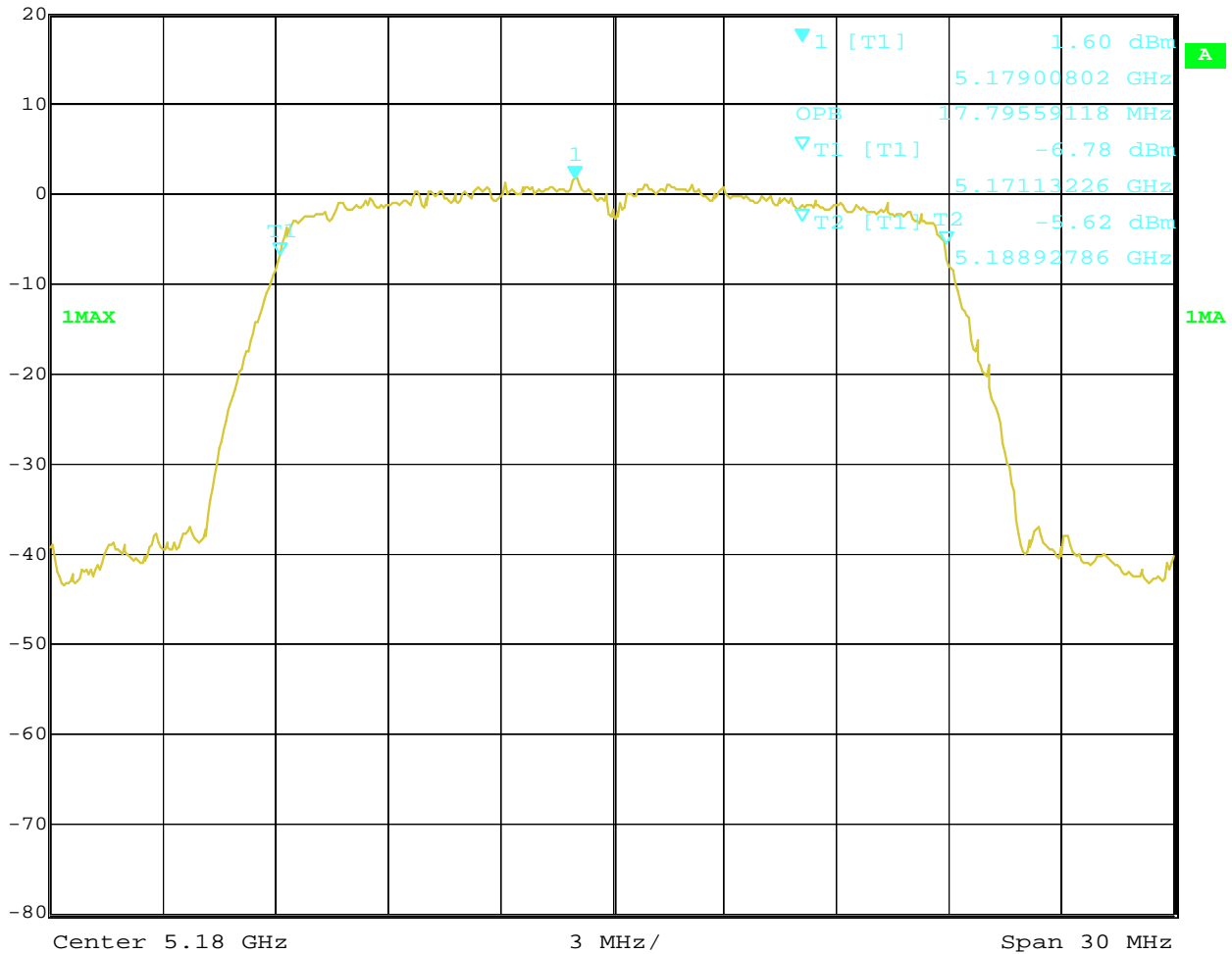


Test Configure

99% Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	1.60 dBm	VBW	1 MHz		
		5.17900802 GHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:39:02

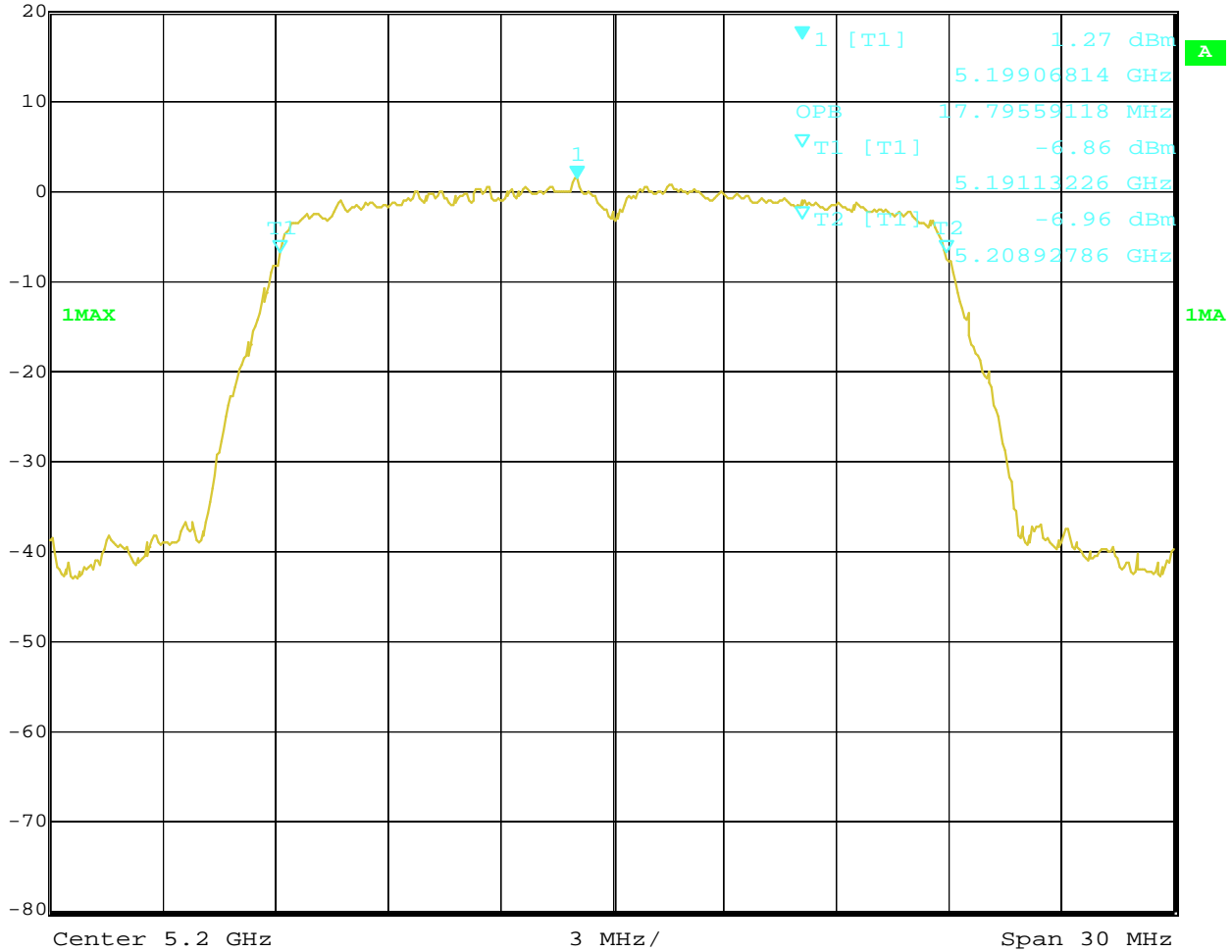
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Channel 40



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	1.27 dBm	VBW	1 MHz		
	5.19906814 GHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:35:39

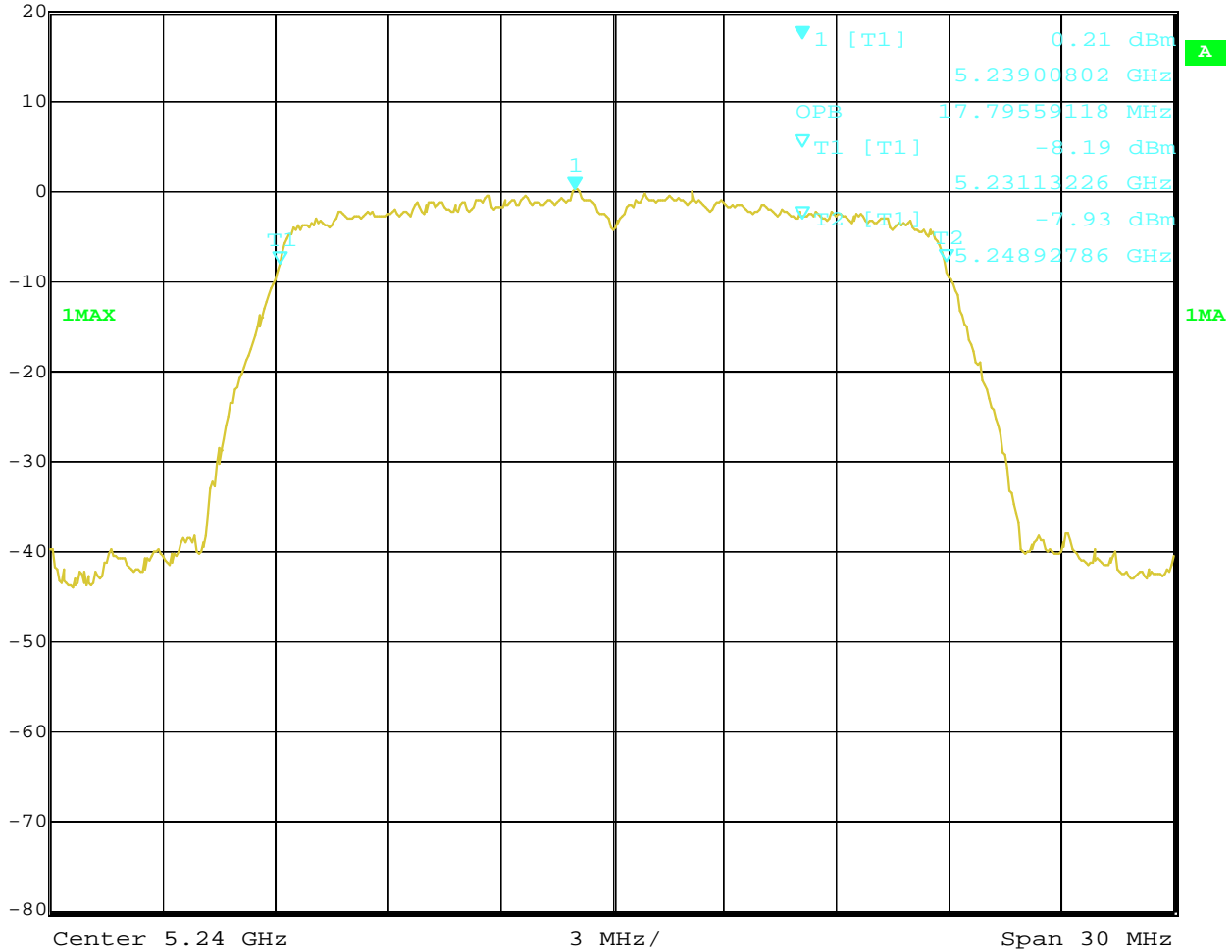
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Channel 48



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	0.21 dBm	VBW	1 MHz		
	5.23900802 GHz	SWT	5 ms	Unit	dBm



Date: 19.MAY.2021 17:32:15

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EUT		wireless router		Model	WR-AX01
Mode		802.11ac VHT20		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					
149	5745	6	20.68	--	Pass
153	5765	6	20.68	--	Pass
161	5805	6	20.62	--	Pass
6dB Bandwidth					
149	5745	6	17.13	0.5	Pass
153	5765	6	16.91	0.5	Pass
161	5805	6	16.95	0.5	Pass
99% Bandwidth					
149	5745	6	17.80	--	Pass
153	5765	6	17.80	--	Pass
161	5805	6	17.86	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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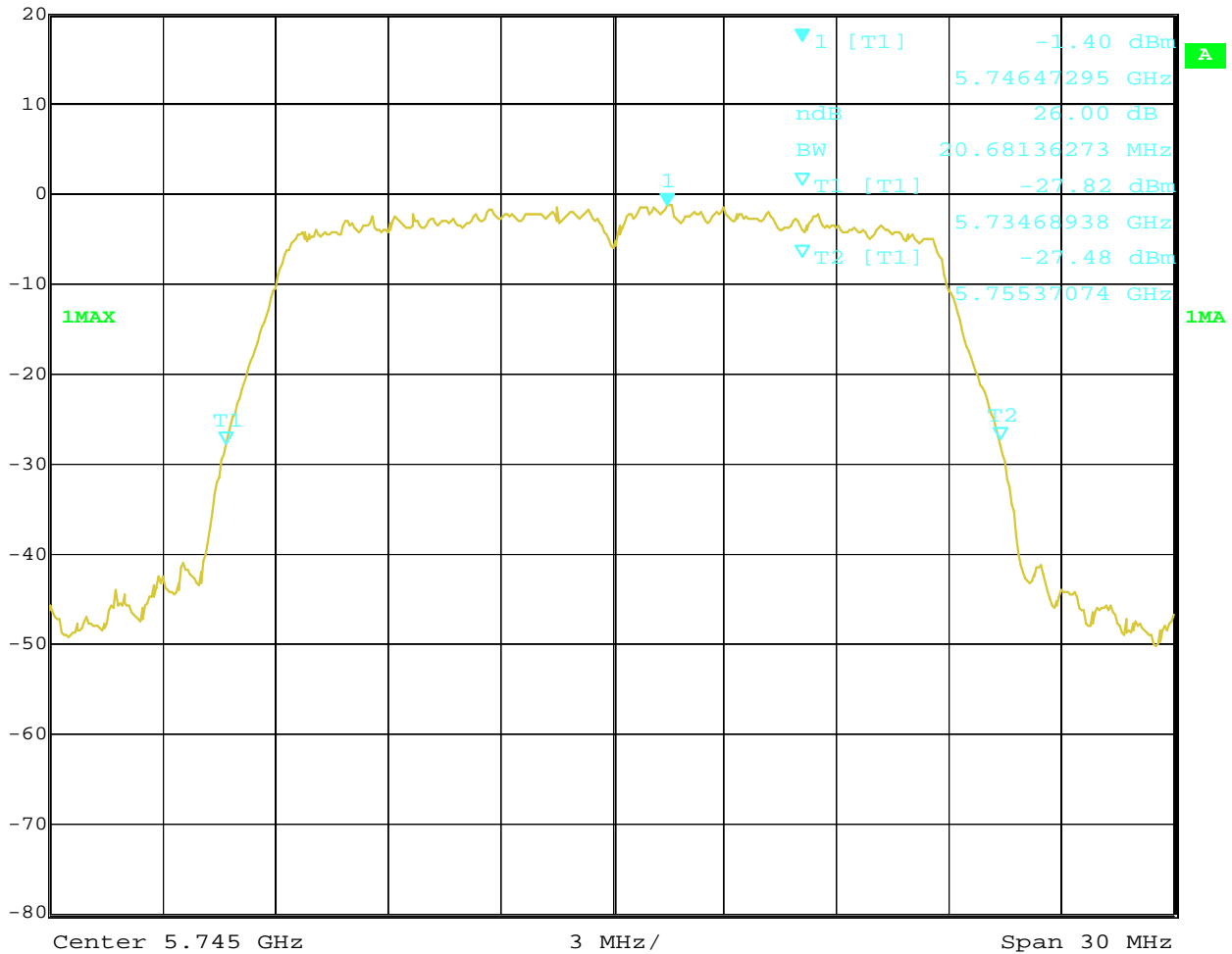


Test Configure

26dB Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 20.68136273 MHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 14:03:52

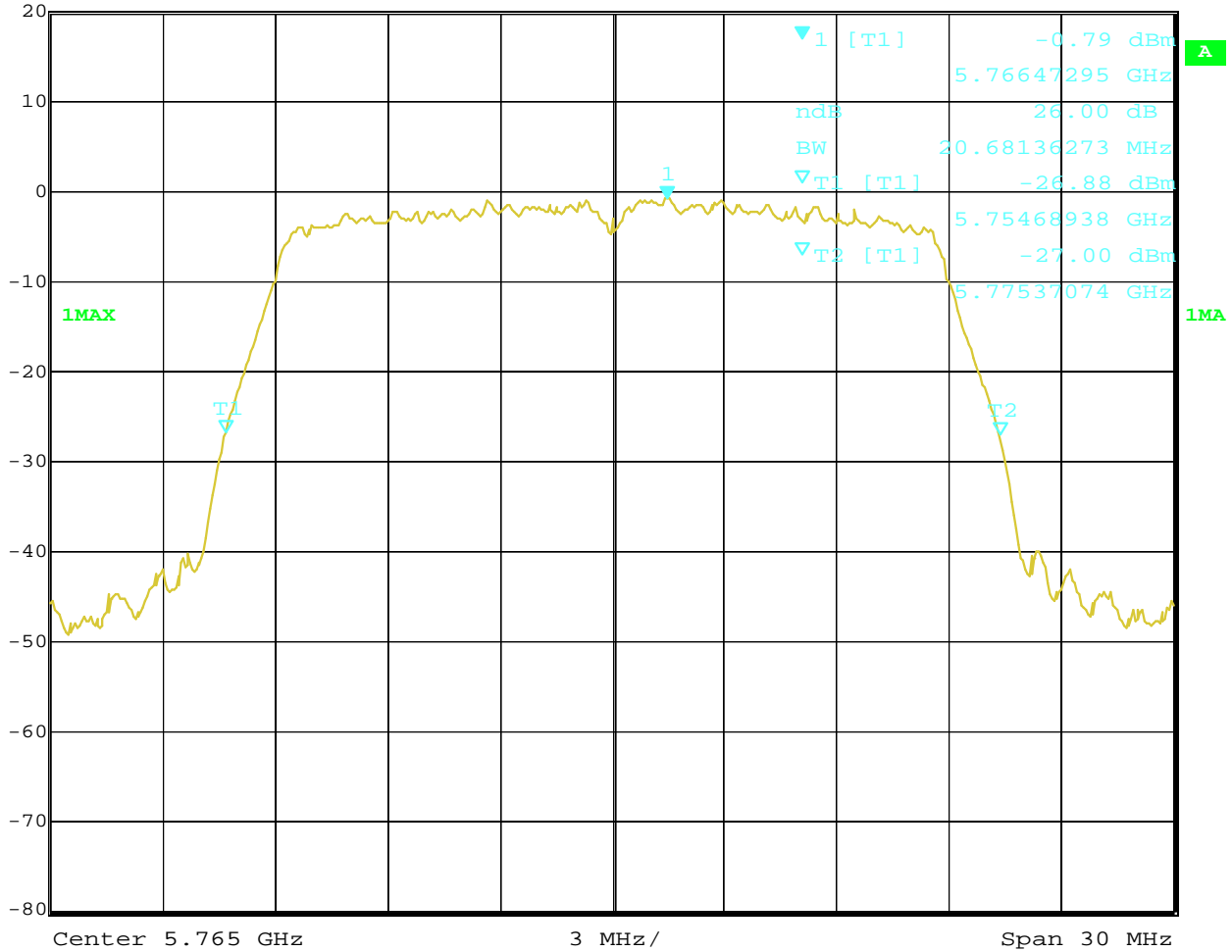
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Channel 153



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.68136273 MHz		VBW	1 MHz	Unit	dBm
					SWT	960 ms		



Date: 21.MAY.2021 13:39:07

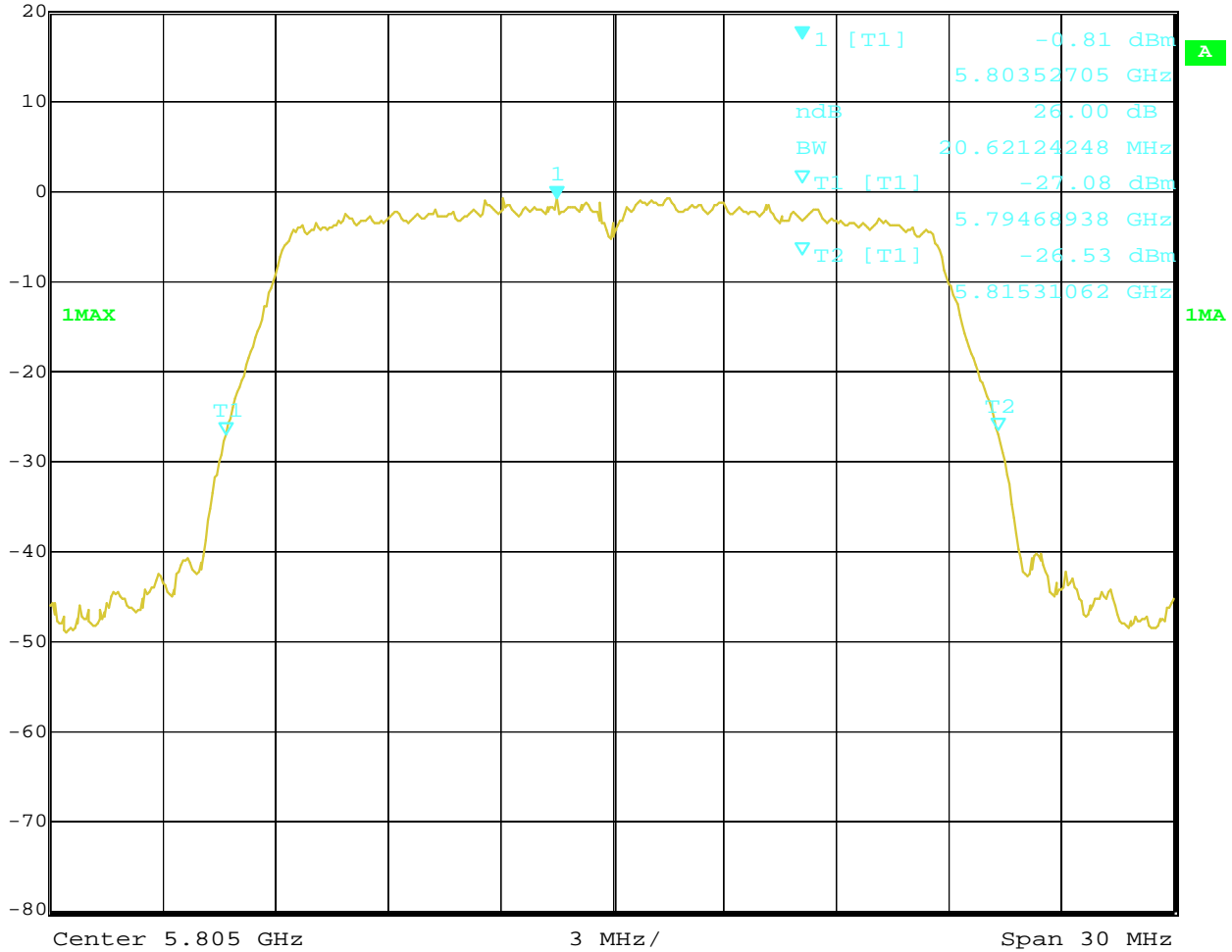
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Channel 161



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	300 kHz	RF Att	30 dB
		BW	20.62124248 MHz		VBW	1 MHz	Unit	dBm
		SWT	960 ms					



Date: 21.MAY.2021 13:39:48

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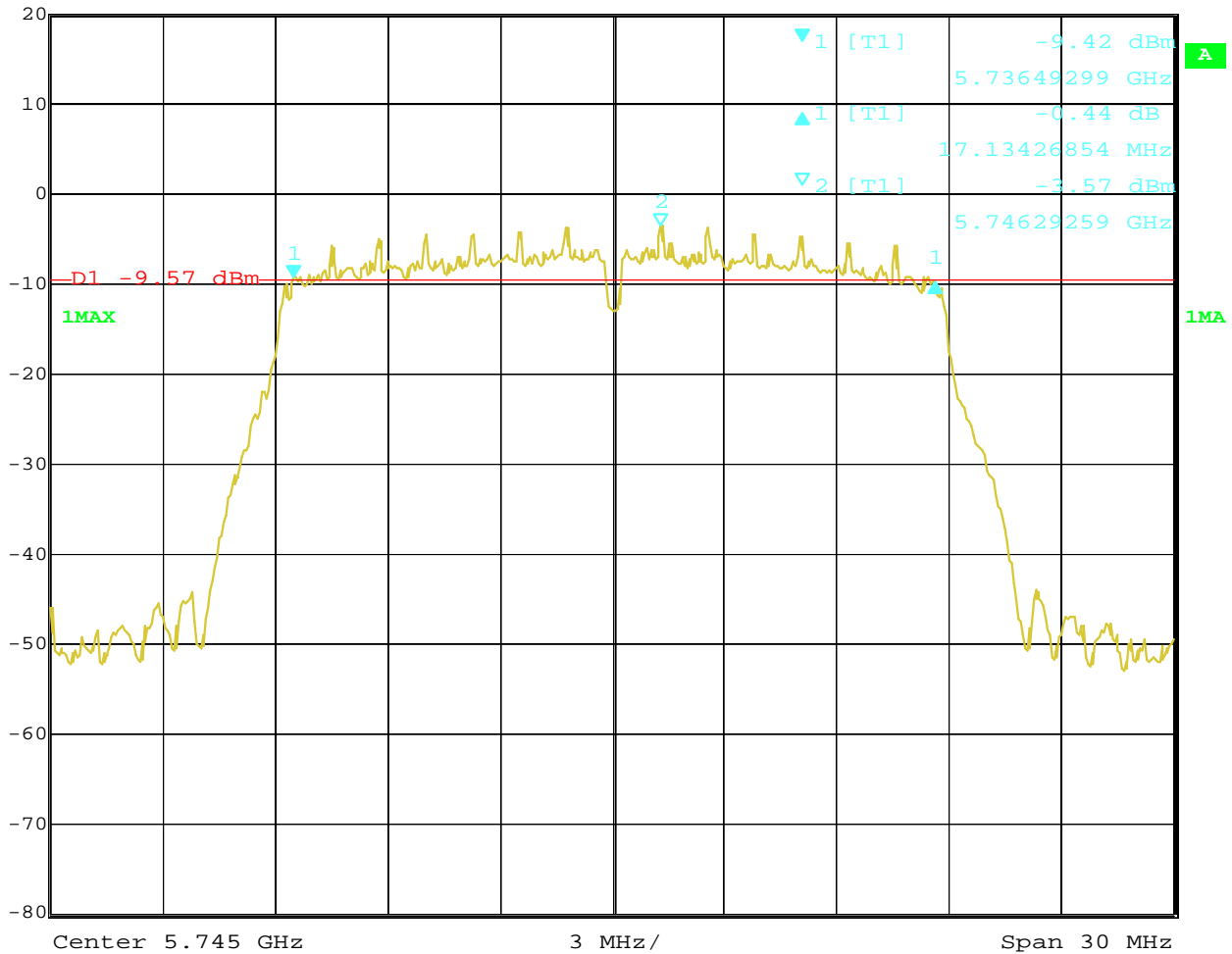


Test Configure

6dB Bandwidth

Channel 149

	Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	20 dBm	-0.44 dB	VBW	300 kHz		
		17.13426854 MHz	SWT	7.5 ms	Unit	dBm

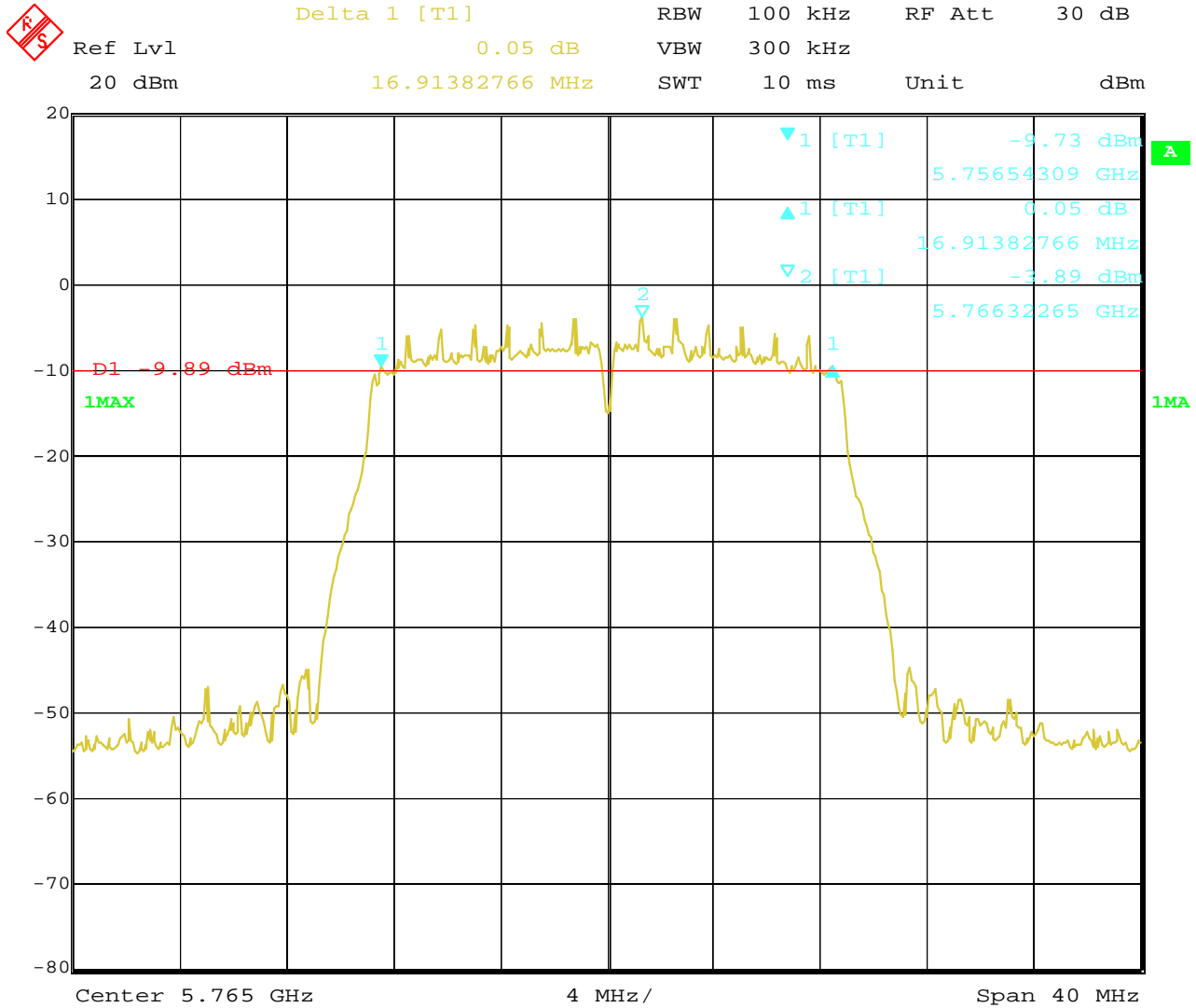


Date: 20.MAY.2021 14:41:02

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



Date: 20.MAY.2021 15:44:39

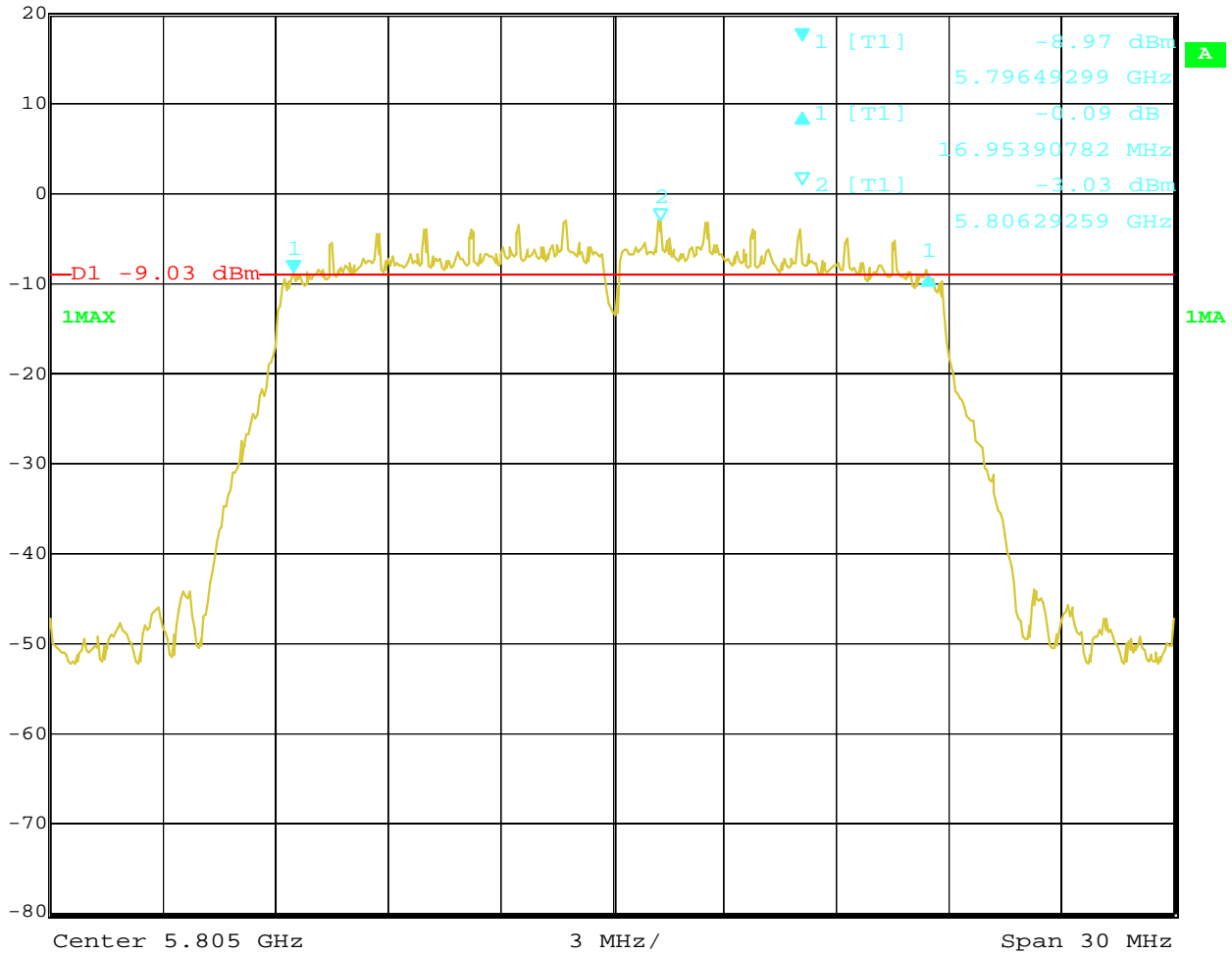
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Channel 161



	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.09 dB	VBW	300 kHz		
20 dBm	16.95390782 MHz	SWT	960 ms	Unit	dBm



Date: 21.MAY.2021 13:34:09

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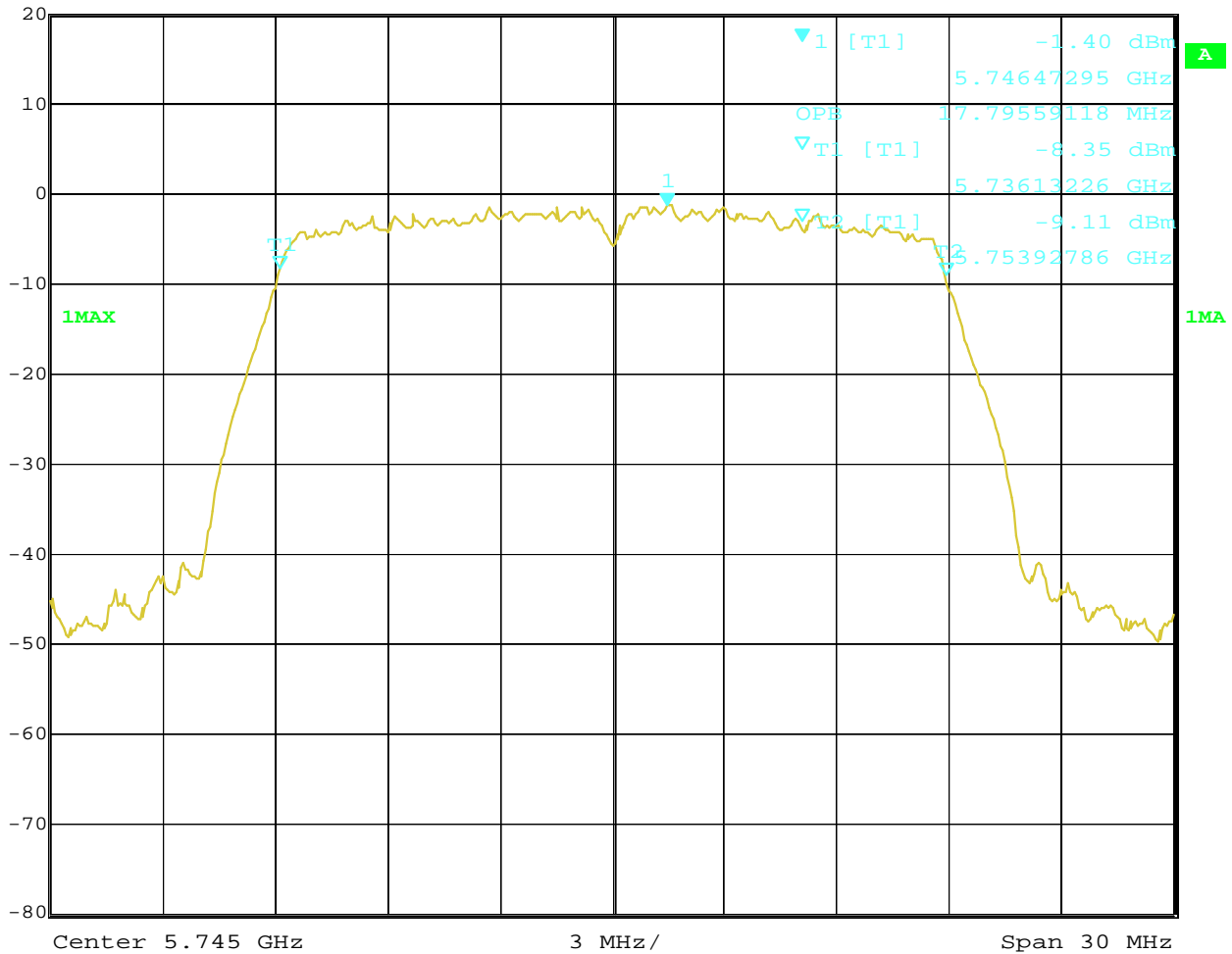


Test Configure

99% Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	-1.40 dBm	VBW	1 MHz		
		5.74647295 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 14:04:19

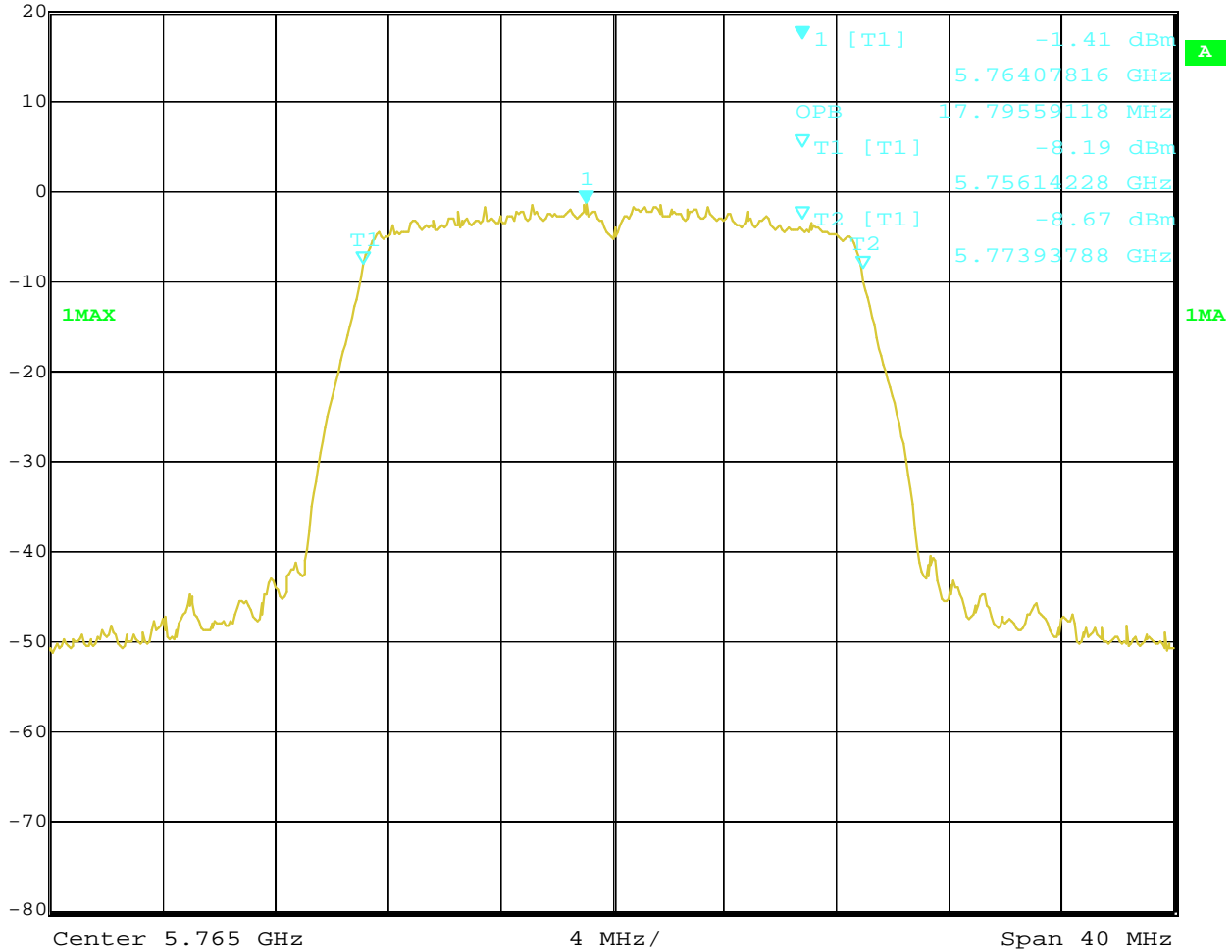
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Channel 153



Ref Lvl	20 dBm	Marker 1 [T1]	-1.41 dBm	RBW	300 kHz	RF Att	30 dB
			5.76407816 GHz	VBW	1 MHz	Unit	dBm
				SWT	5 ms		



Date: 20.MAY.2021 15:27:46

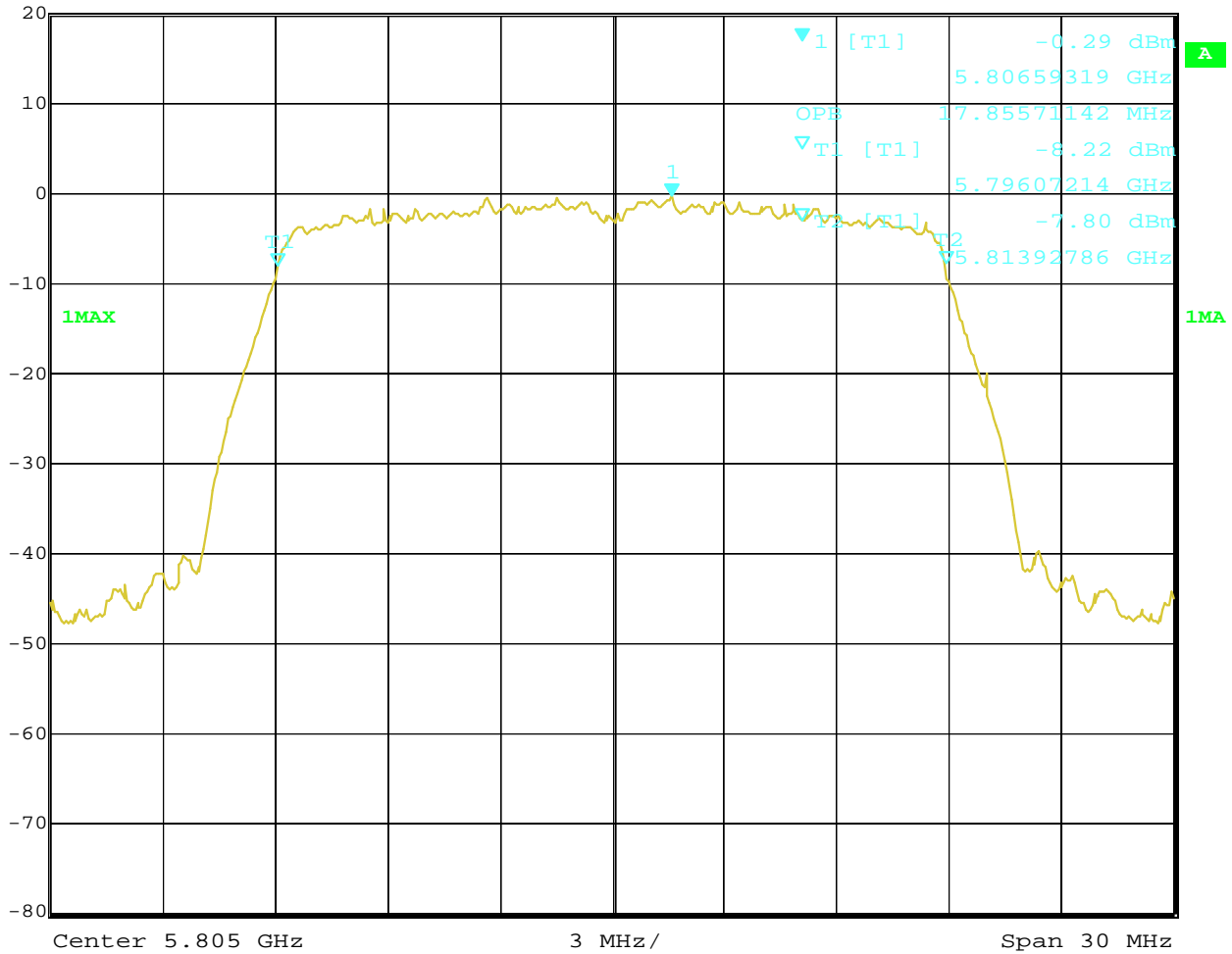
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Channel 161



Ref Lvl	20 dBm	Marker 1 [T1]	-0.29 dBm	RBW	300 kHz	RF Att	30 dB
			5.80659319 GHz	VBW	1 MHz	Unit	dBm
				SWT	960 ms		



Date: 21.MAY.2021 13:40:53

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EUT		wireless router		Model	WR-AX01
Mode		802.11ac VHT40		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					
38	5190	mcs0	41.24	--	Pass
46	5230	mcs0	41.00	--	Pass
99% Bandwidth					
38	5190	mcs0	36.19	--	Pass
46	5230	mcs0	36.07	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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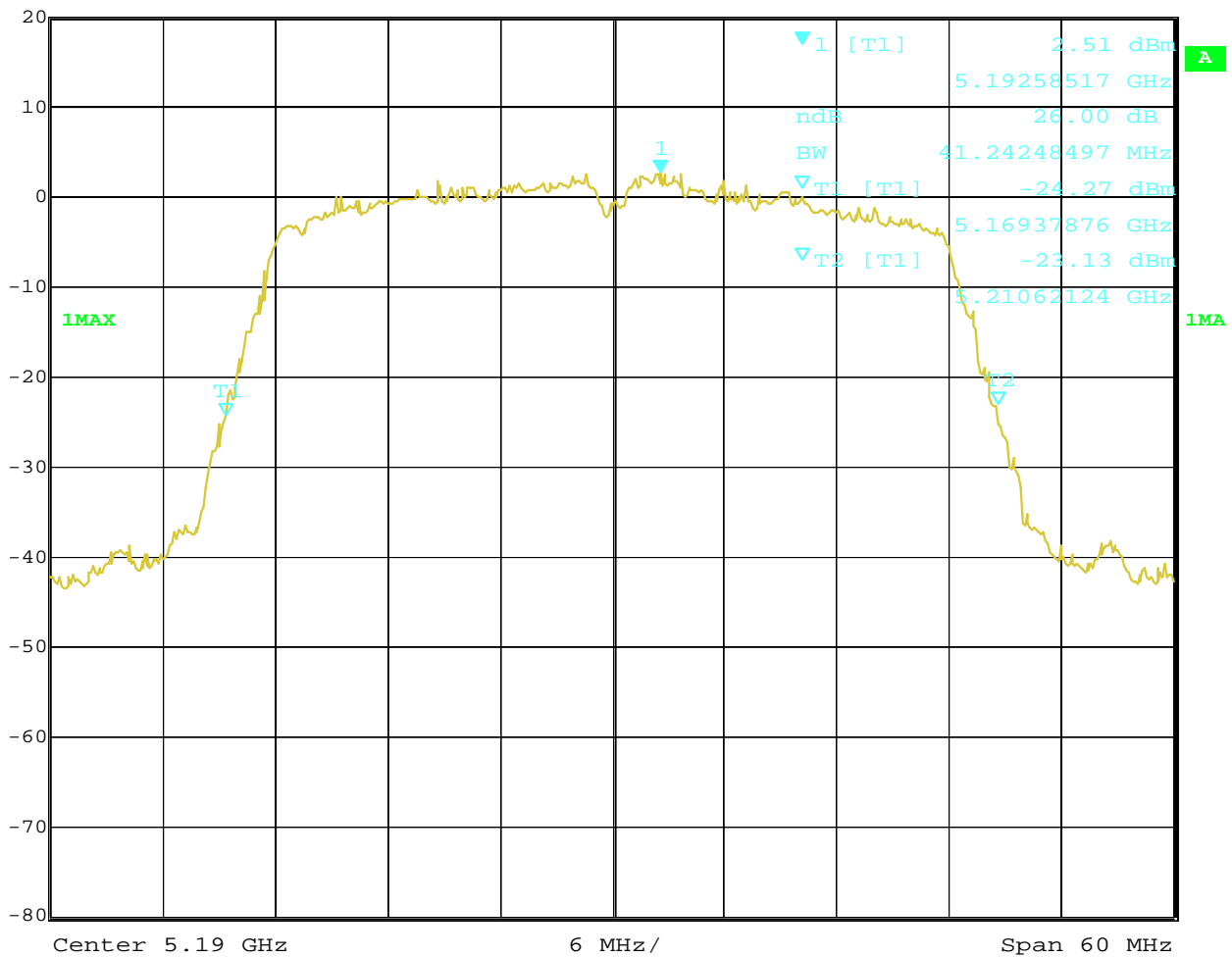


Test Configure

26dB Bandwidth

Channel 38

	Ref Lvl	Marker 1 [T1 ndB]	RBW	1 MHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	3 MHz		
		BW 41.24248497 MHz	SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:40:47

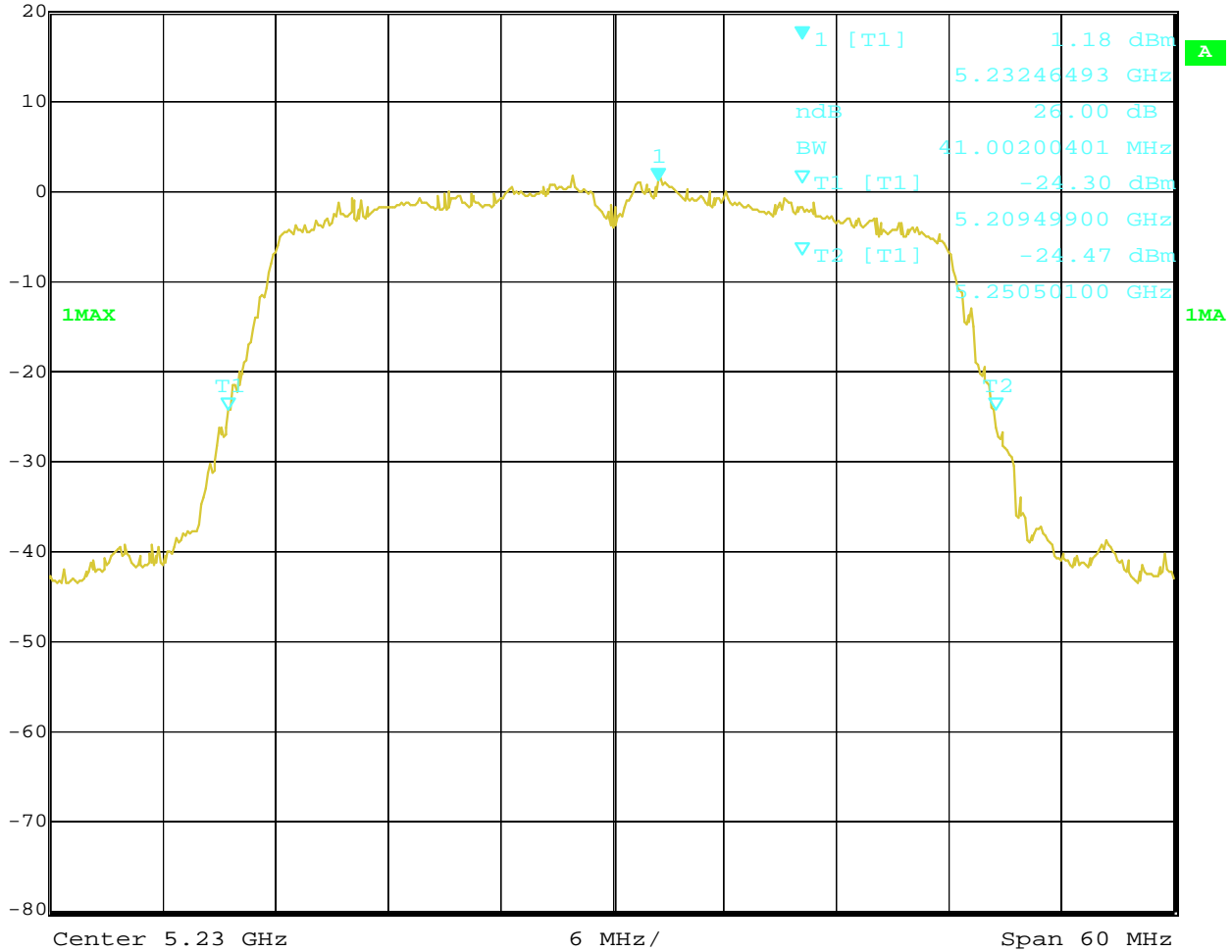
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Channel 46



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	41.00200401 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 22.MAY.2021 18:42:01

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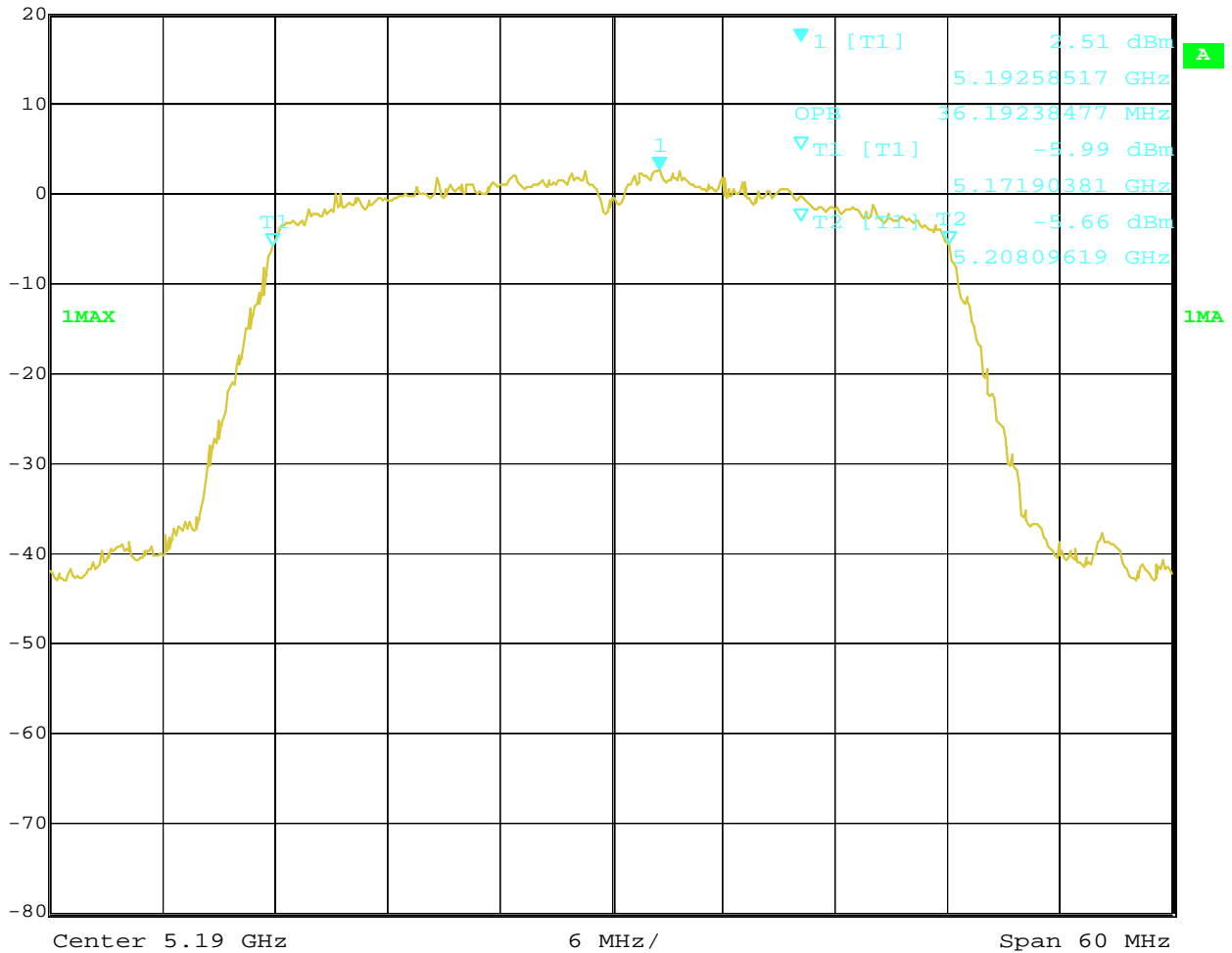


Test Configure

99% Bandwidth

Channel 38

RS	Ref Lvl	20 dBm	Marker 1 [T1]	2.51 dBm	RBW	1 MHz	RF Att	30 dB
			5.19258517 GHz		VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:41:01

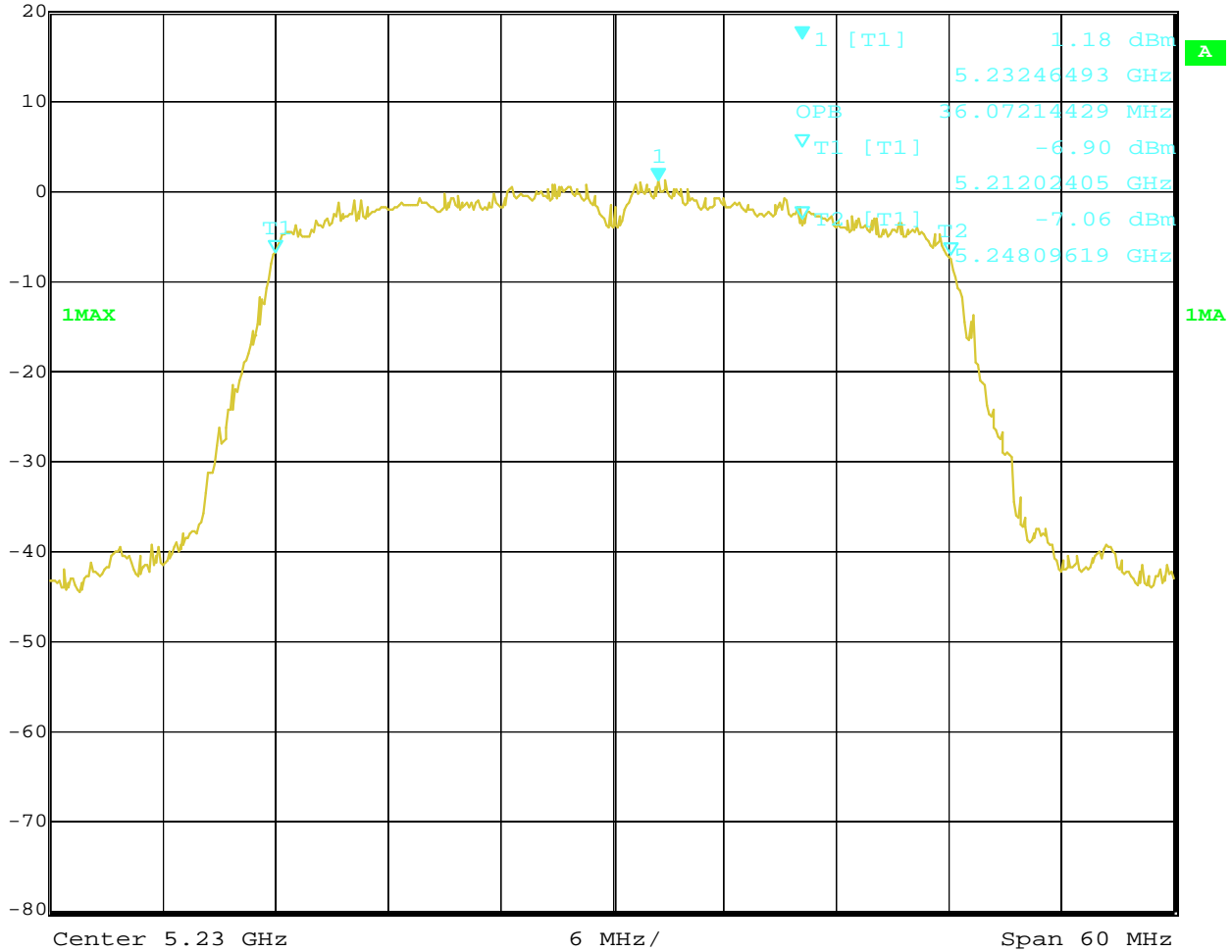
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Channel 46



Ref Lvl	20 dBm	Marker 1 [T1]	1.18 dBm	RBW	1 MHz	RF Att	30 dB
			5.23246493 GHz	VBW	3 MHz	Unit	dBm
				SWT	5 ms		



Date: 22.MAY.2021 18:41:51

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EUT		wireless router		Model	WR-AX01
Mode		802.11ac VHT40		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					
151	5755	mcs0	41.24	--	Pass
159	5795	mcs0	41.48	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.11	0.5	Pass
159	5795	mcs0	35.11	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.95	--	Pass
159	5795	mcs0	36.07	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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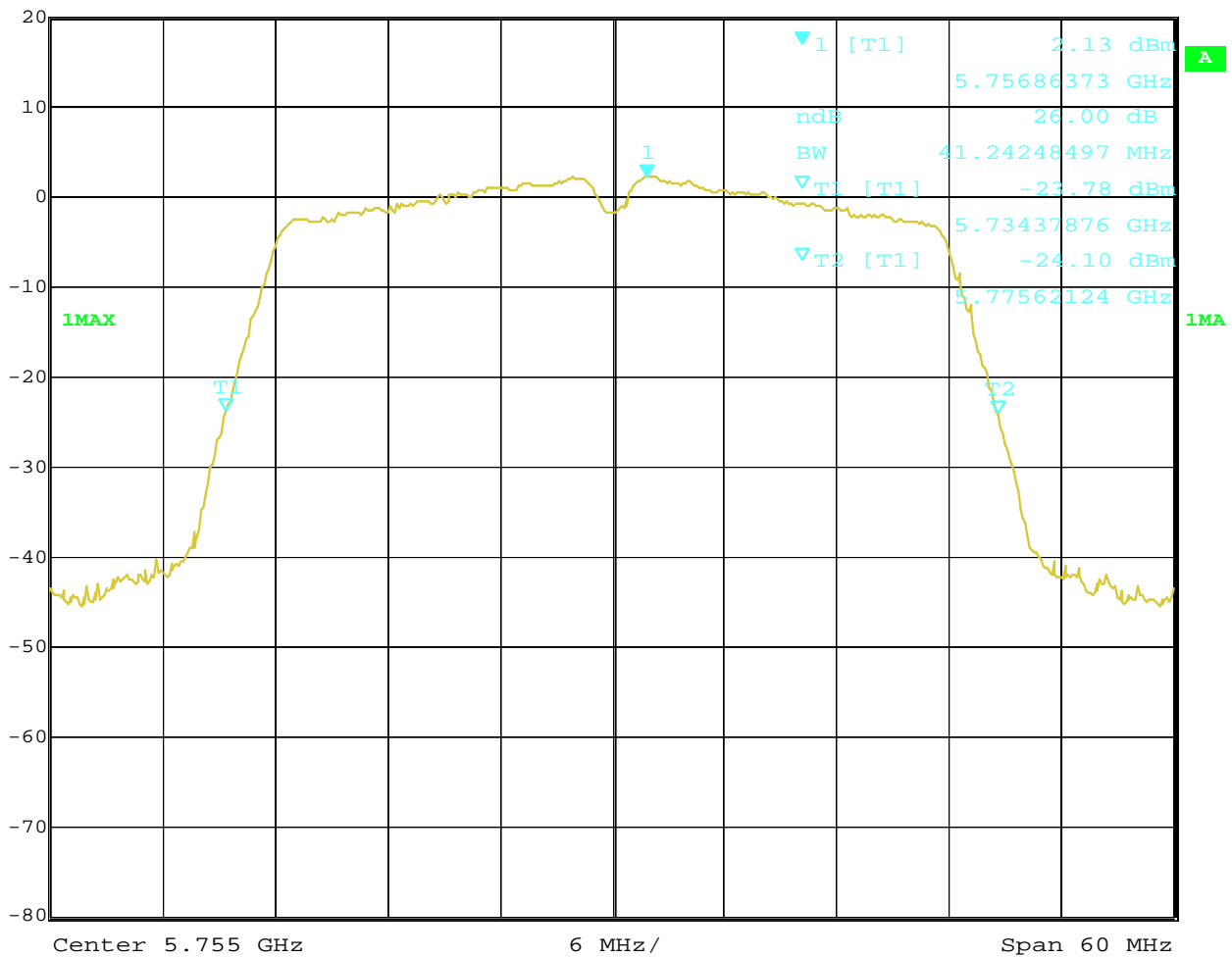


Test Configure

26dB Bandwidth

Channel 151

	Ref Lvl	Marker 1 [T1 ndB]	RBW	1 MHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	3 MHz		
		BW 41.24248497 MHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 16:26:13

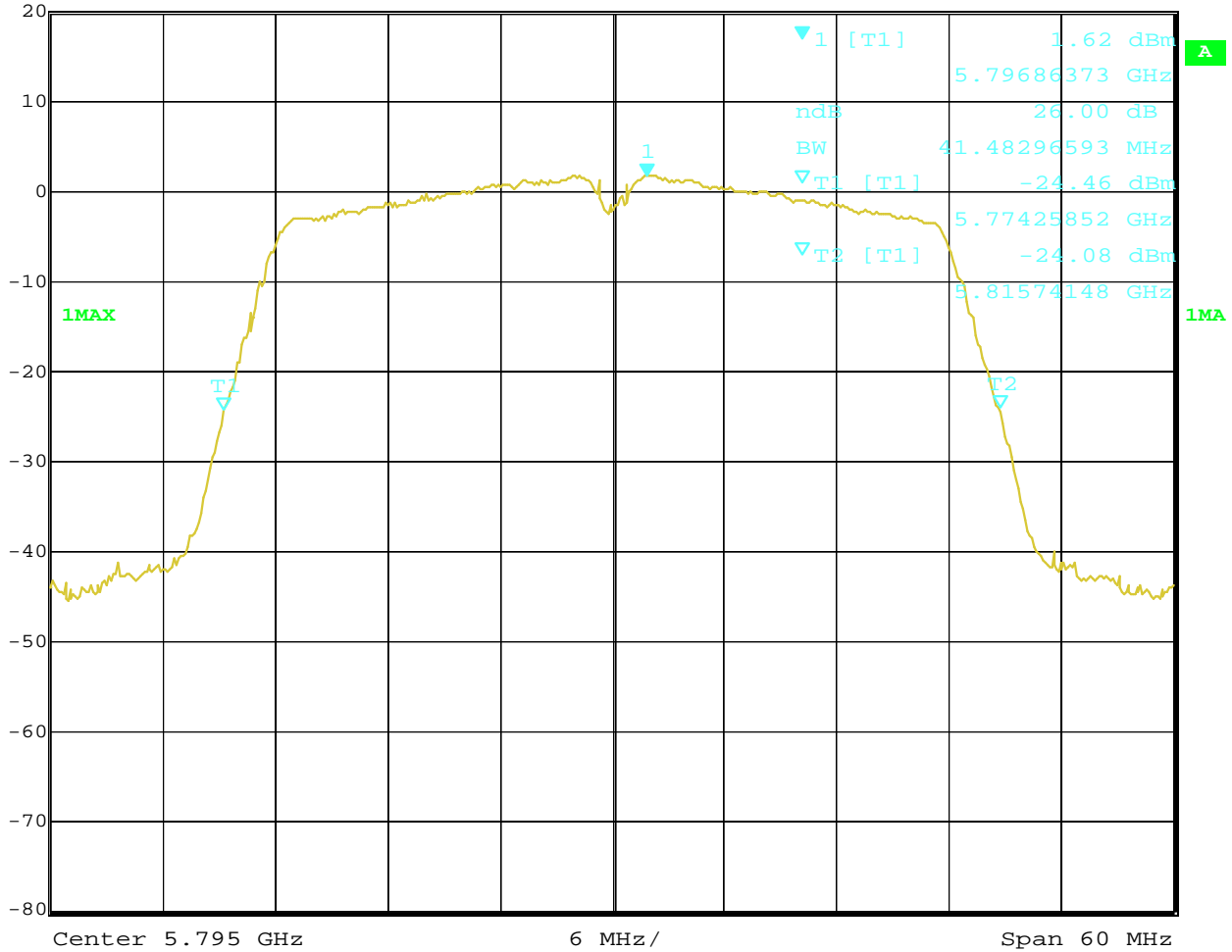
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Channel 159



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	41.48296593 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 20.MAY.2021 17:05:13

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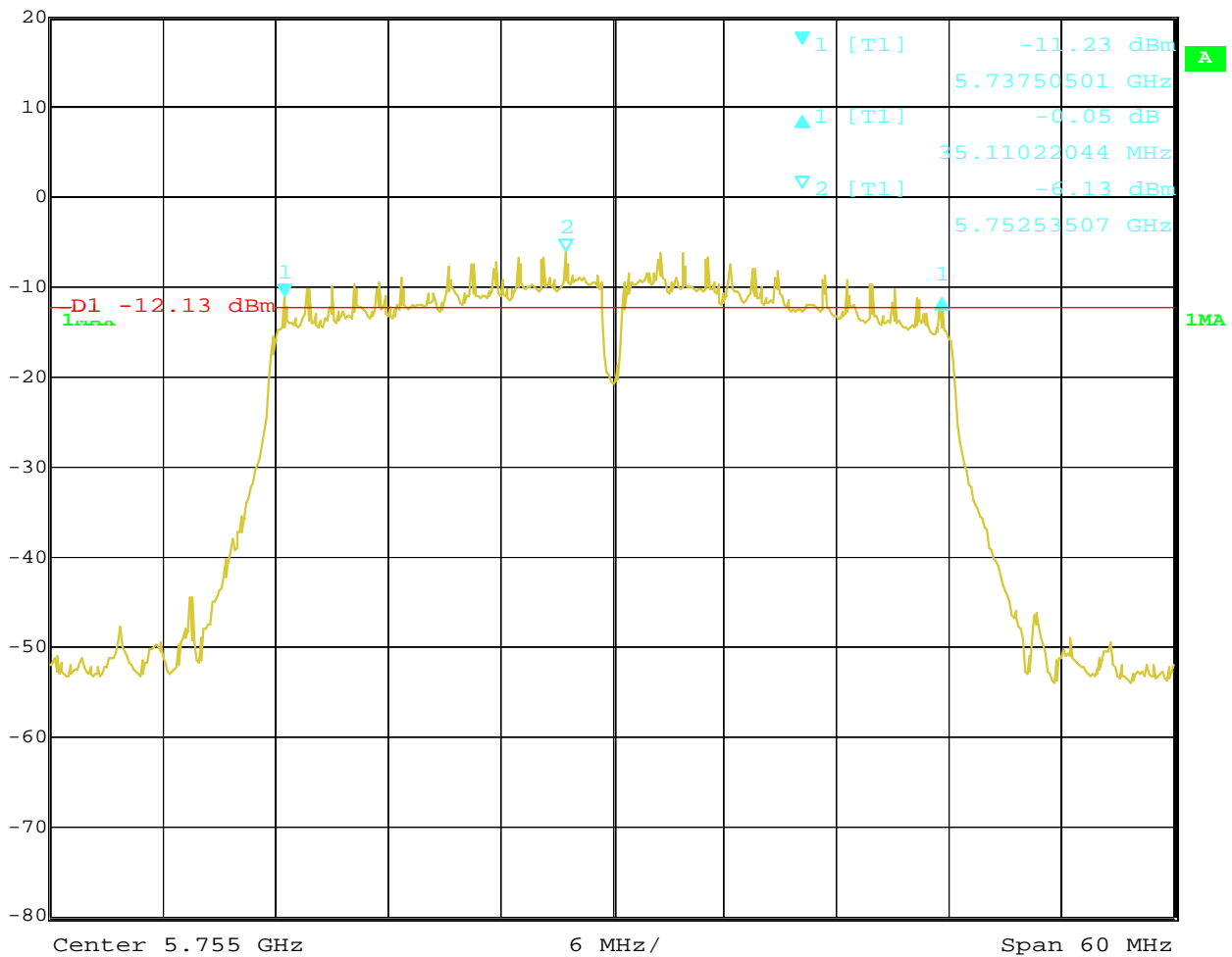


Test Configure

6dB Bandwidth

Channel 151

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.05 dB	VBW	300 kHz	
	20 dBm	35.11022044 MHz	SWT	15 ms	Unit dBm



Date: 20.MAY.2021 16:59:40

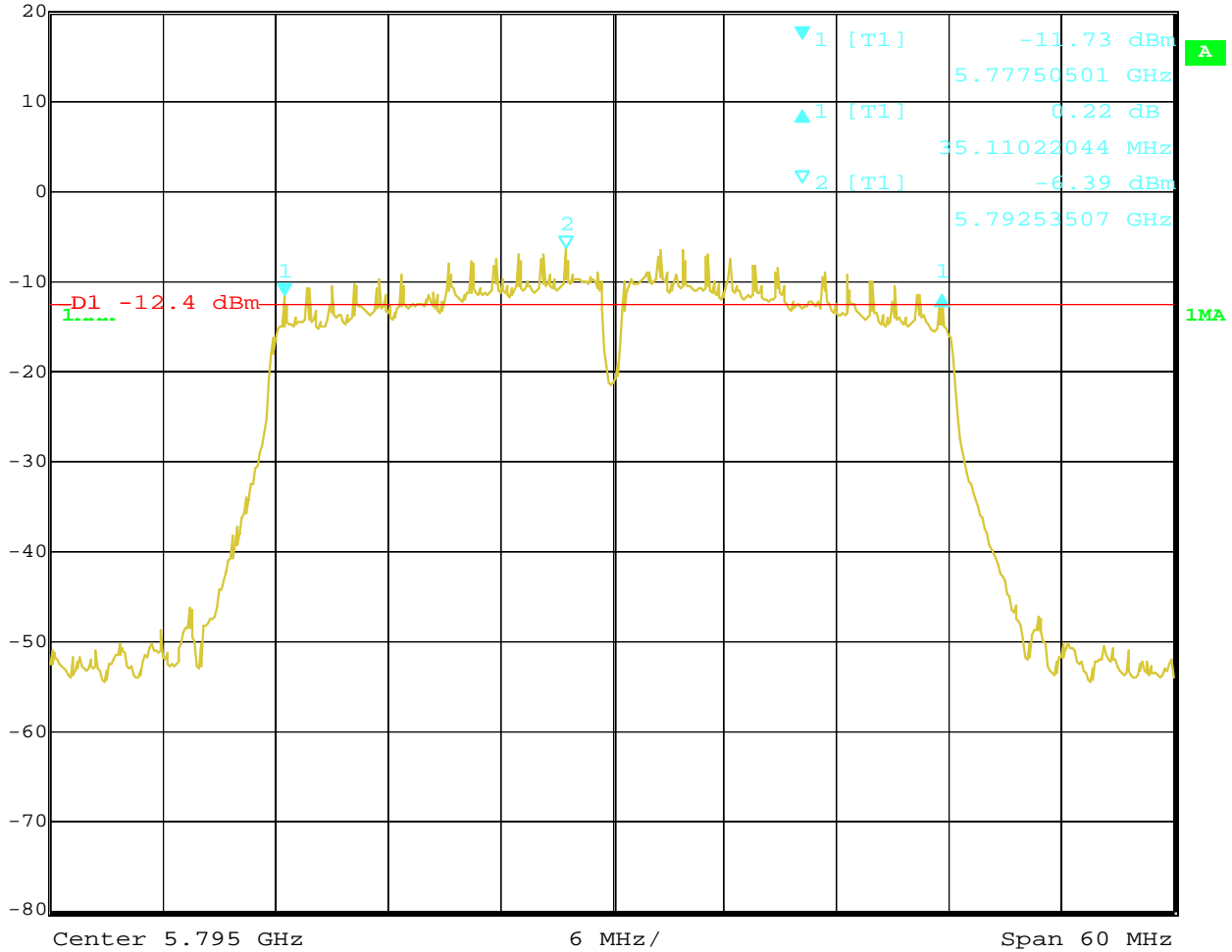
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Channel 159



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl 0.22 dB VBW 300 kHz
 20 dBm 35.11022044 MHz SWT 15 ms Unit dBm



Date: 20.MAY.2021 17:10:59

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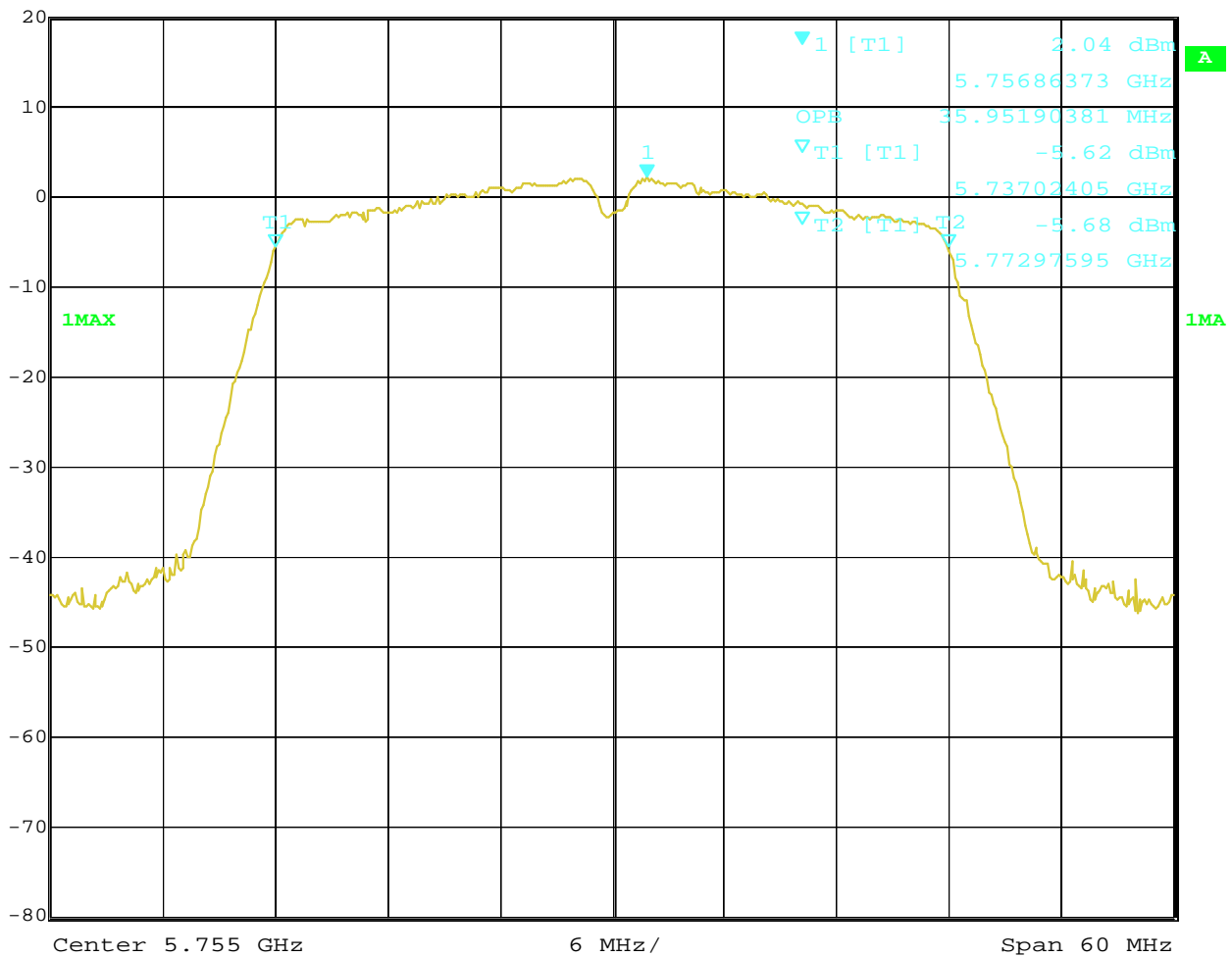


Test Configure

99% Bandwidth

Channel 151

	Ref Lvl	20 dBm	Marker 1 [T1]	2.04 dBm	RBW	1 MHz	RF Att	30 dB
			5.75686373 GHz		VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 16:28:04

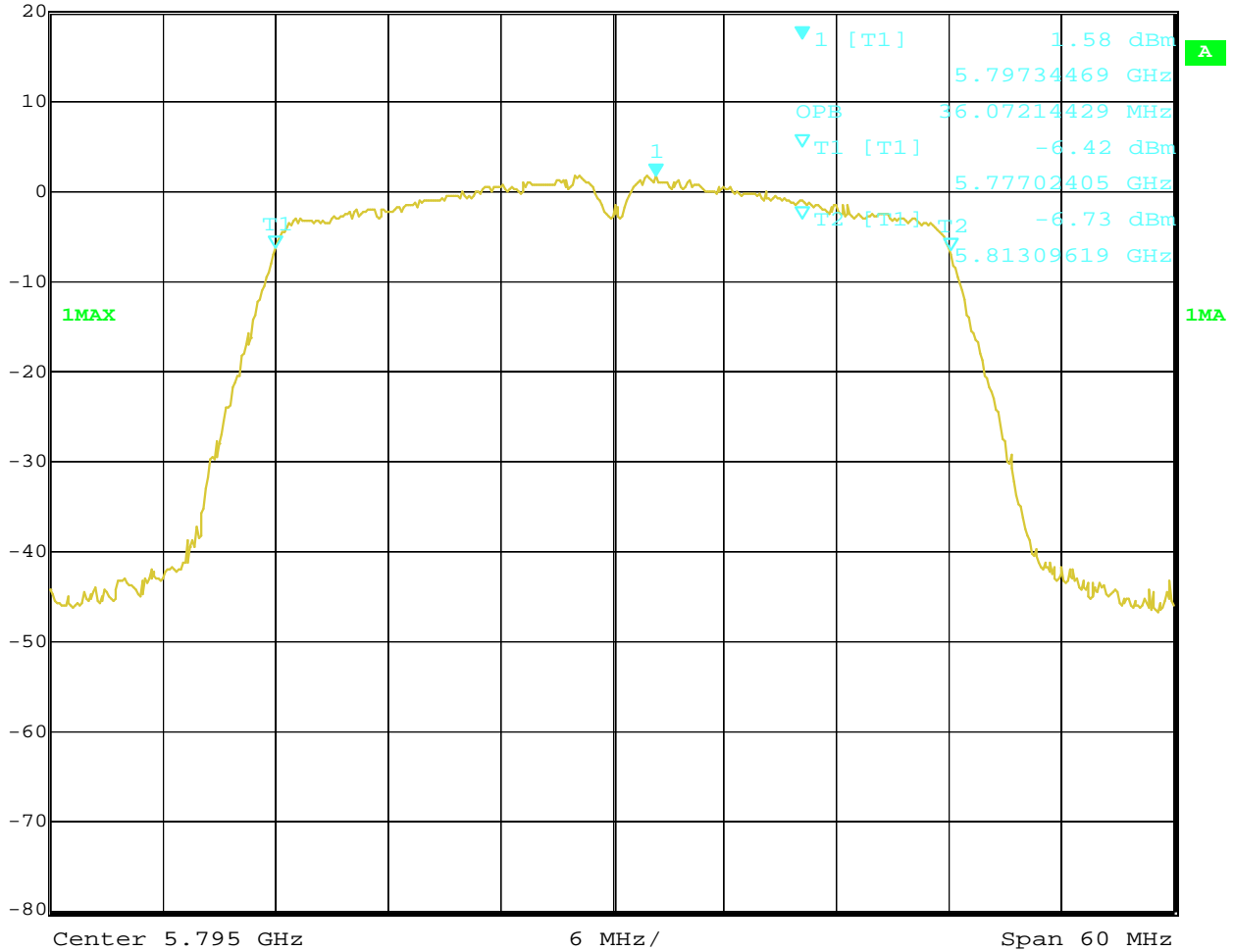
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Channel 159



Ref Lvl	20 dBm	Marker 1 [T1]	1.58 dBm	5.79734469 GHz	RBW	1 MHz	RF Att	30 dB	VBW	3 MHz	SWT	5 ms	Unit	dBm
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Date: 20.MAY.2021 17:06:20

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EUT		wireless router		Model	WR-AX01
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	mcs0	80.56	--	Pass
99% Bandwidth					
42	5210	mcs0	75.27	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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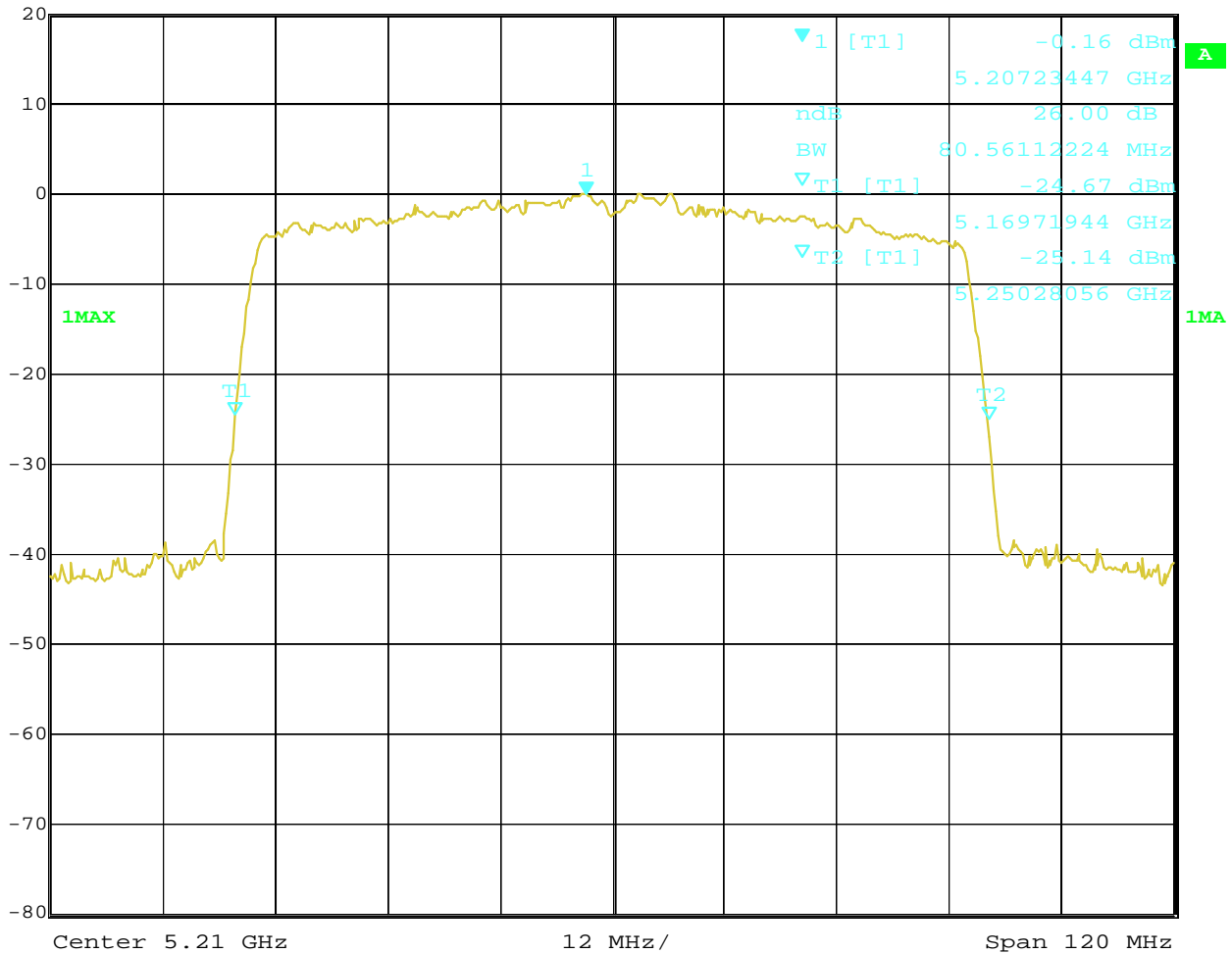


Test Configure

26dB Bandwidth

Channel 42

	Ref Lvl	Marker 1 [T1 ndB]	RBW	1 MHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	3 MHz		
		BW 80.56112224 MHz	SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:44:16

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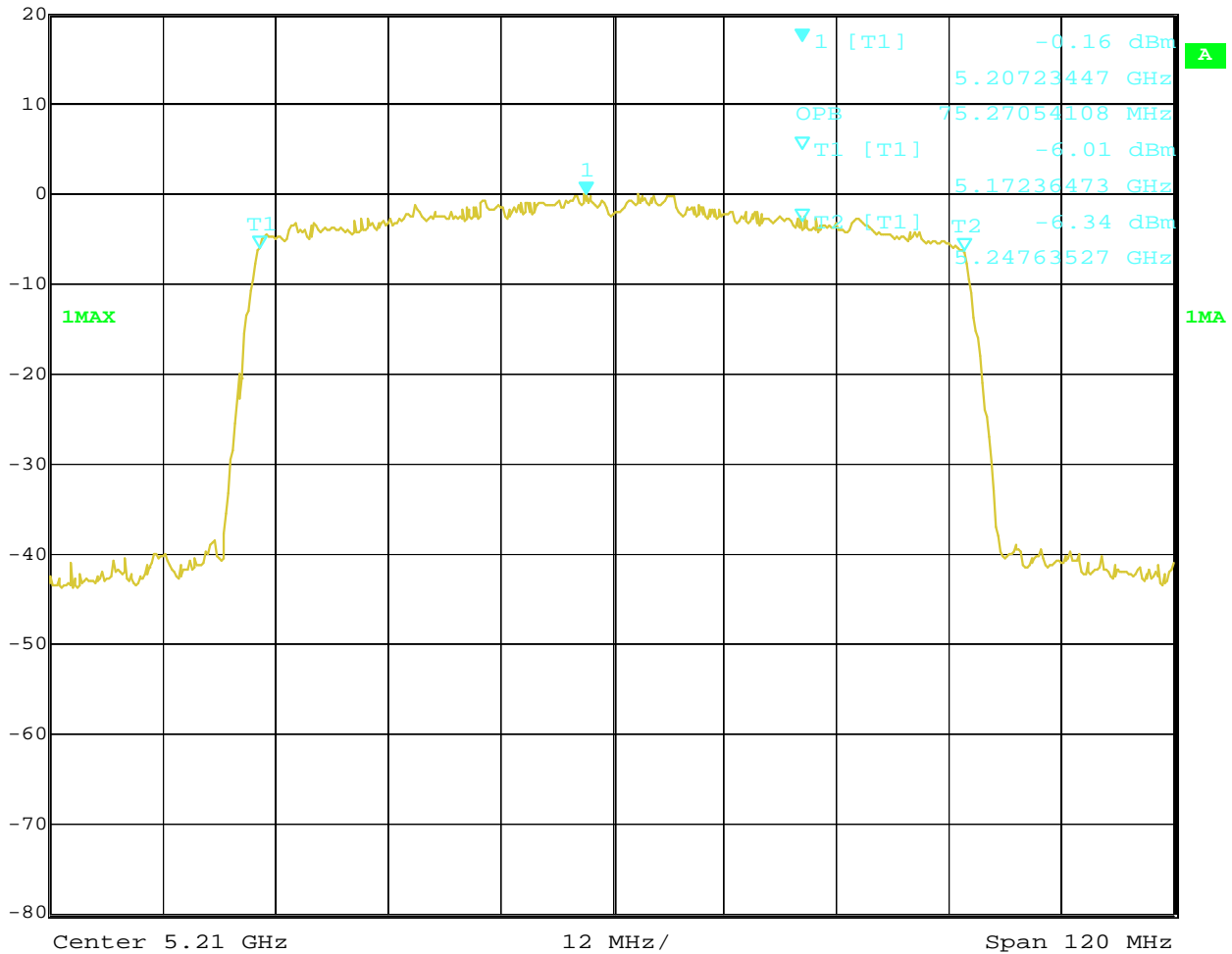


Test Configure

99% Bandwidth

Channel 42

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	-0.16 dBm	VBW	3 MHz		
		5.20723447 GHz	SWT	5 ms	Unit	dBm



Date: 22.MAY.2021 18:43:59

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EUT		wireless router		Model	WR-AX01	
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						
155	5775	mcs0	80.80	--	Pass	
6dB Bandwidth						
155	5775	mcs0	75.35	0.5	Pass	
99% Bandwidth						
155	5775	mcs0	75.51	--	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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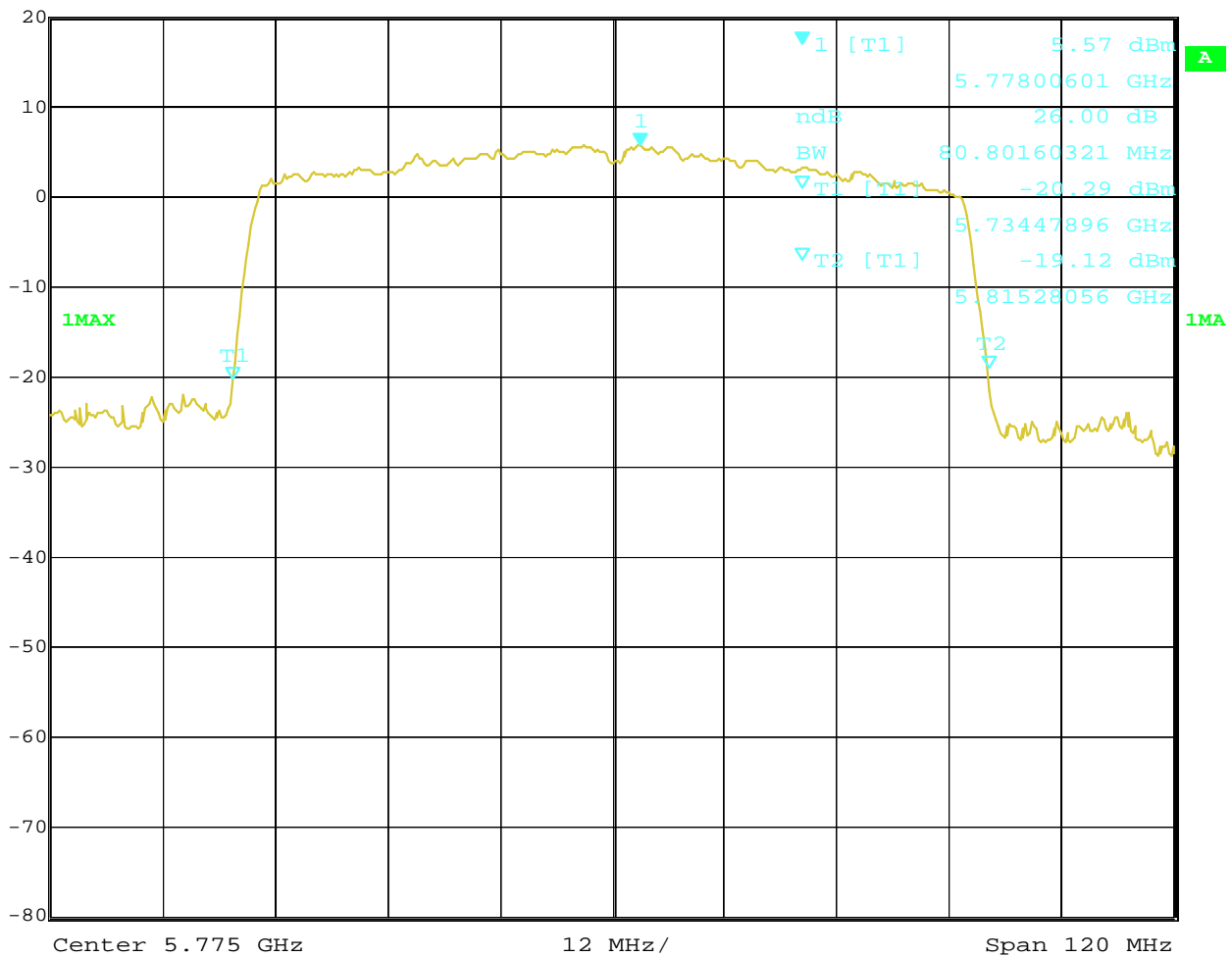


Test Configure

26dB Bandwidth

Channel 155

	Ref Lvl	Marker 1 [T1 ndB]	RBW	1 MHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	3 MHz		
		BW 80.80160321 MHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 17:16:26

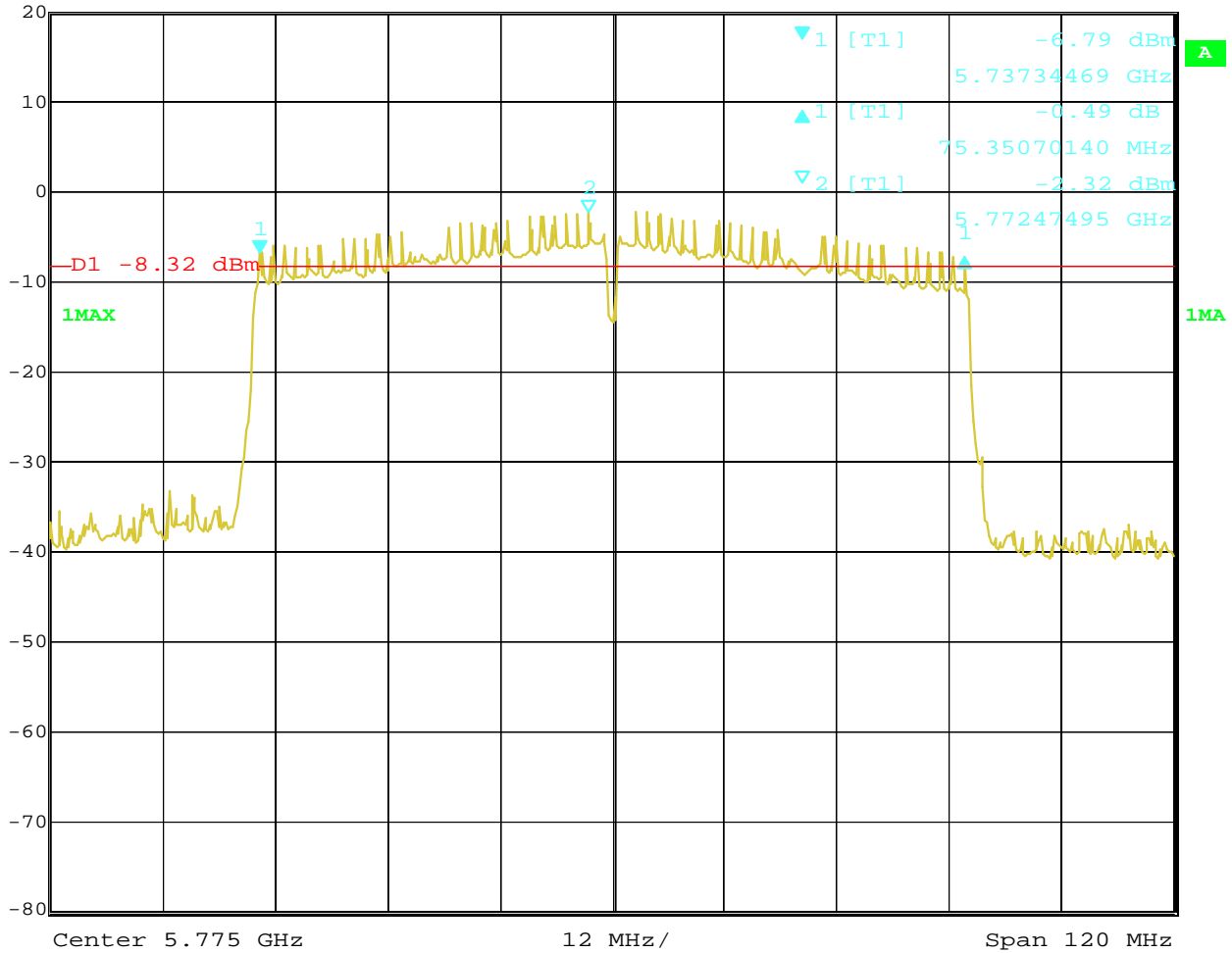
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6dB Bandwidth

Channel 155

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.49 dB	VBW	300 kHz	
	20 dBm	75.35070140 MHz	SWT	30 ms	Unit dBm



Date: 20.MAY.2021 17:14:32

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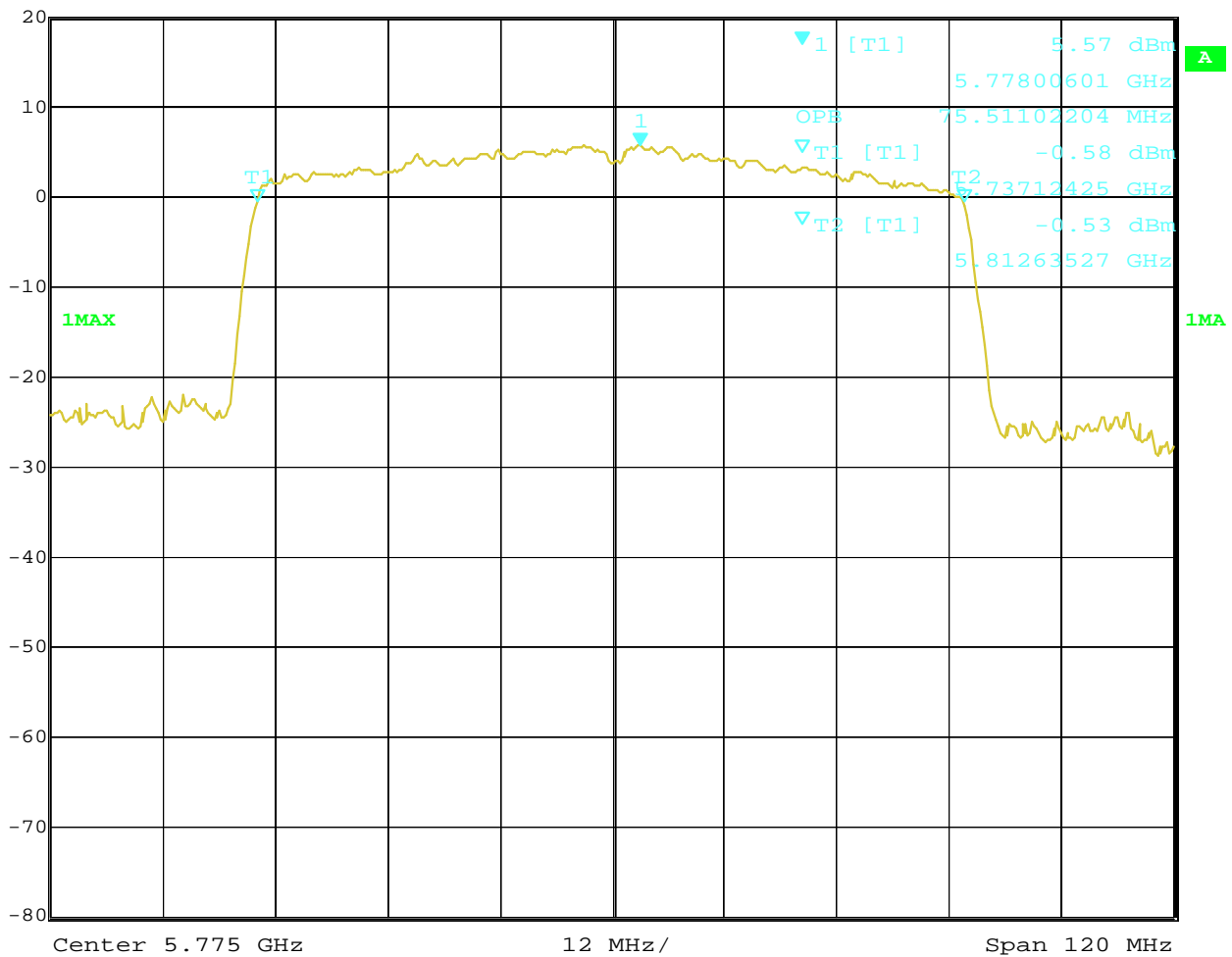


Test Configure

99% Bandwidth

Channel 155

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	5.57 dBm	VBW	3 MHz		
		5.77800601 GHz	SWT	5 ms	Unit	dBm



Date: 20.MAY.2021 17:16:42

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EUT		wireless router		Model	WR-AX01
Mode		802.11ax HEW20		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					
36	5180	mcs0	22.79	--	Pass
40	5200	mcs0	23.27	--	Pass
48	5240	mcs0	20.14	--	Pass
99% Bandwidth					
36	5180	mcs0	19.18	--	Pass
40	5200	mcs0	19.18	--	Pass
48	5240	mcs0	18.88	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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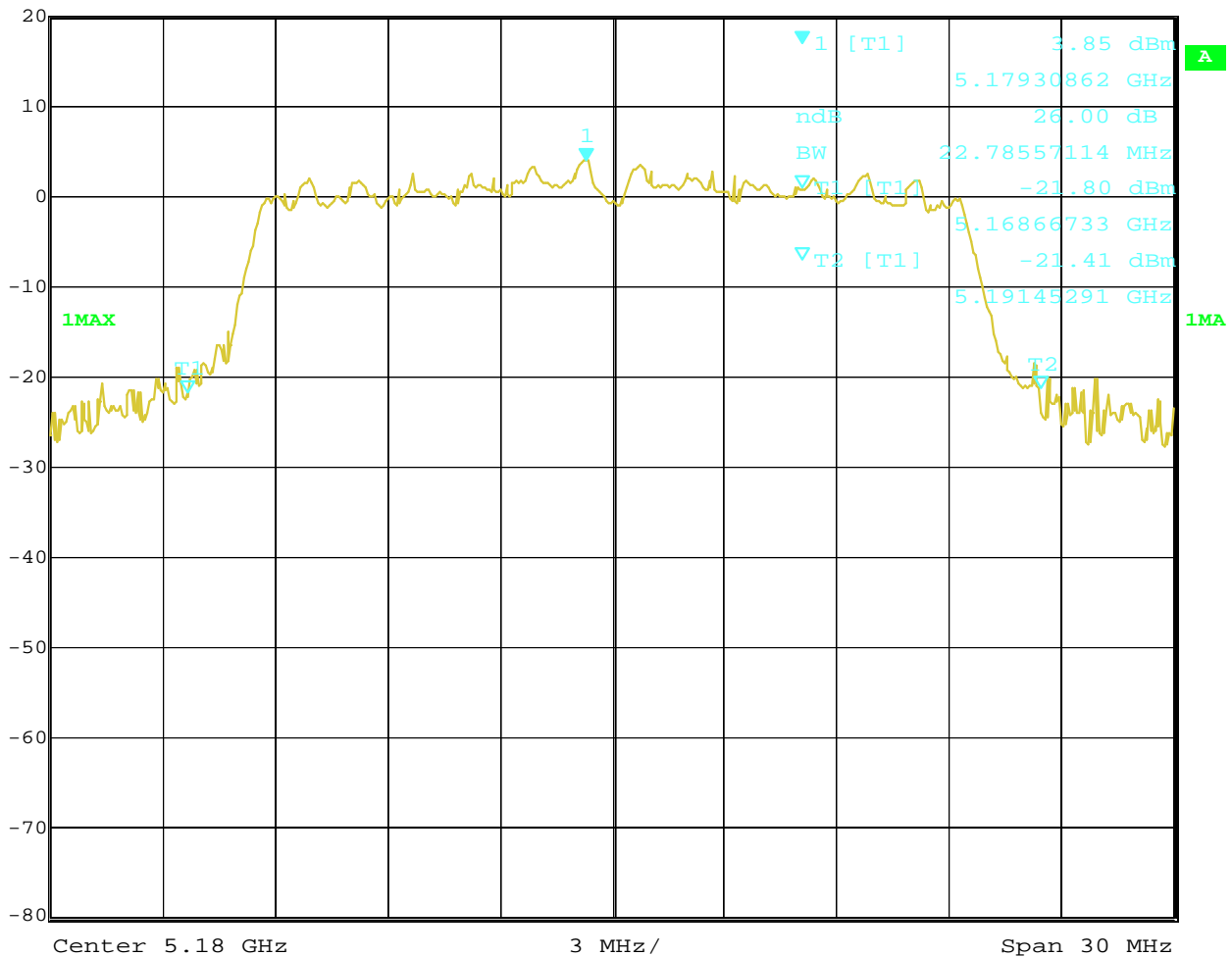


Test Configure

26dB Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
	20 dBm	ndB 26.00 dB	VBW	1 MHz		
		BW 22.78557114 MHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:02:13

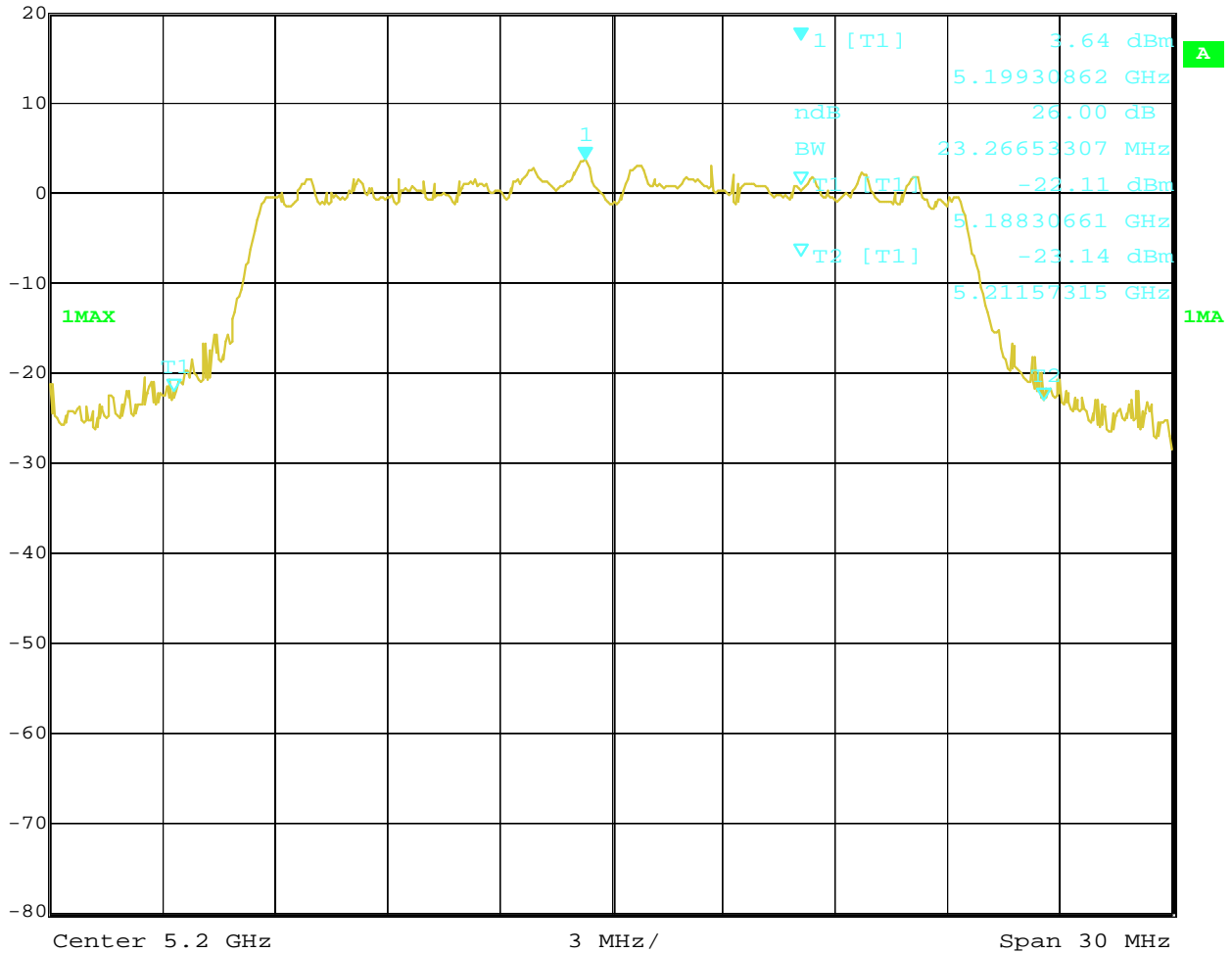
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Channel 40



Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
20 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 23.26653307 MHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:20:19

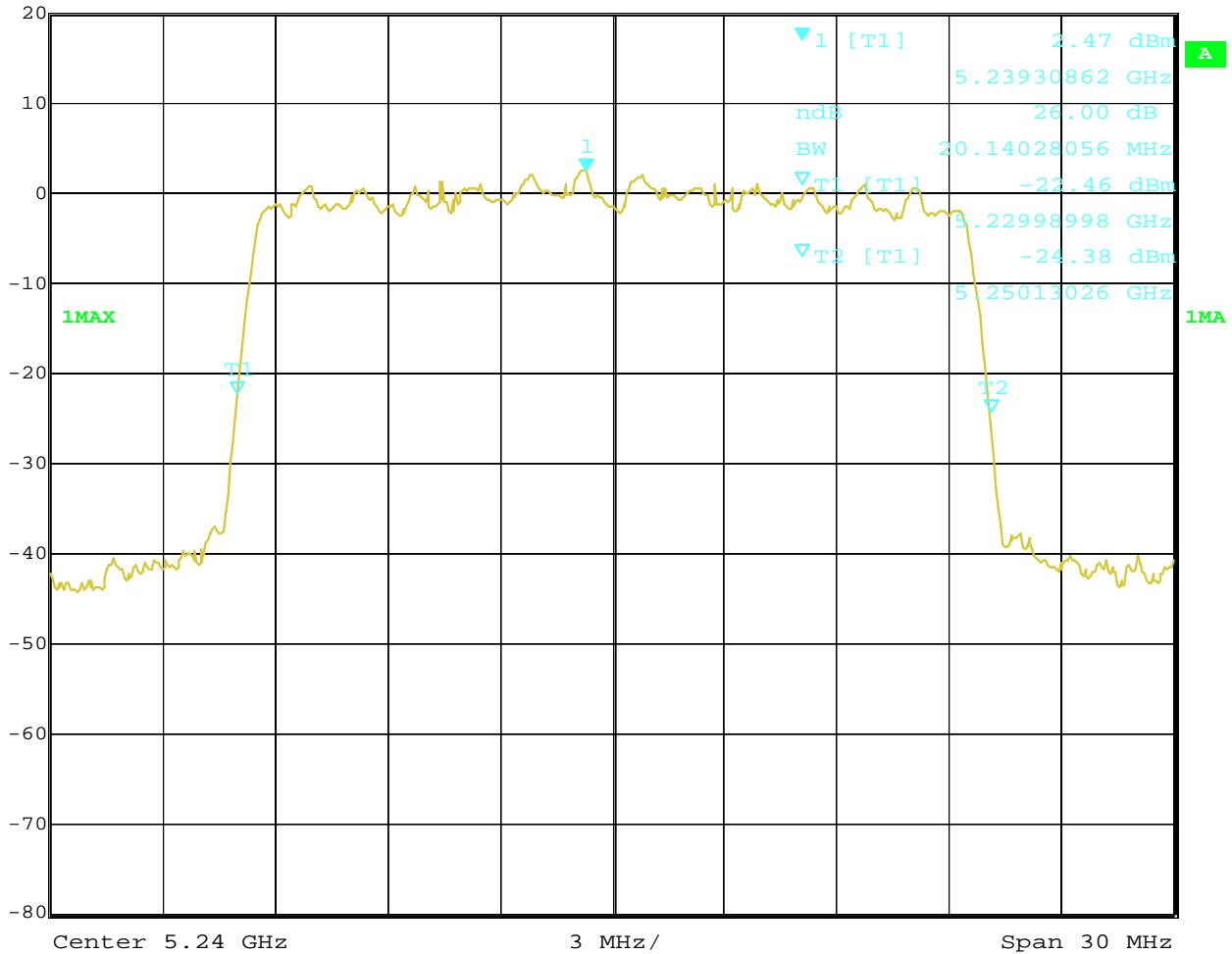
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Channel 48



Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
20 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 20.14028056 MHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:29:52

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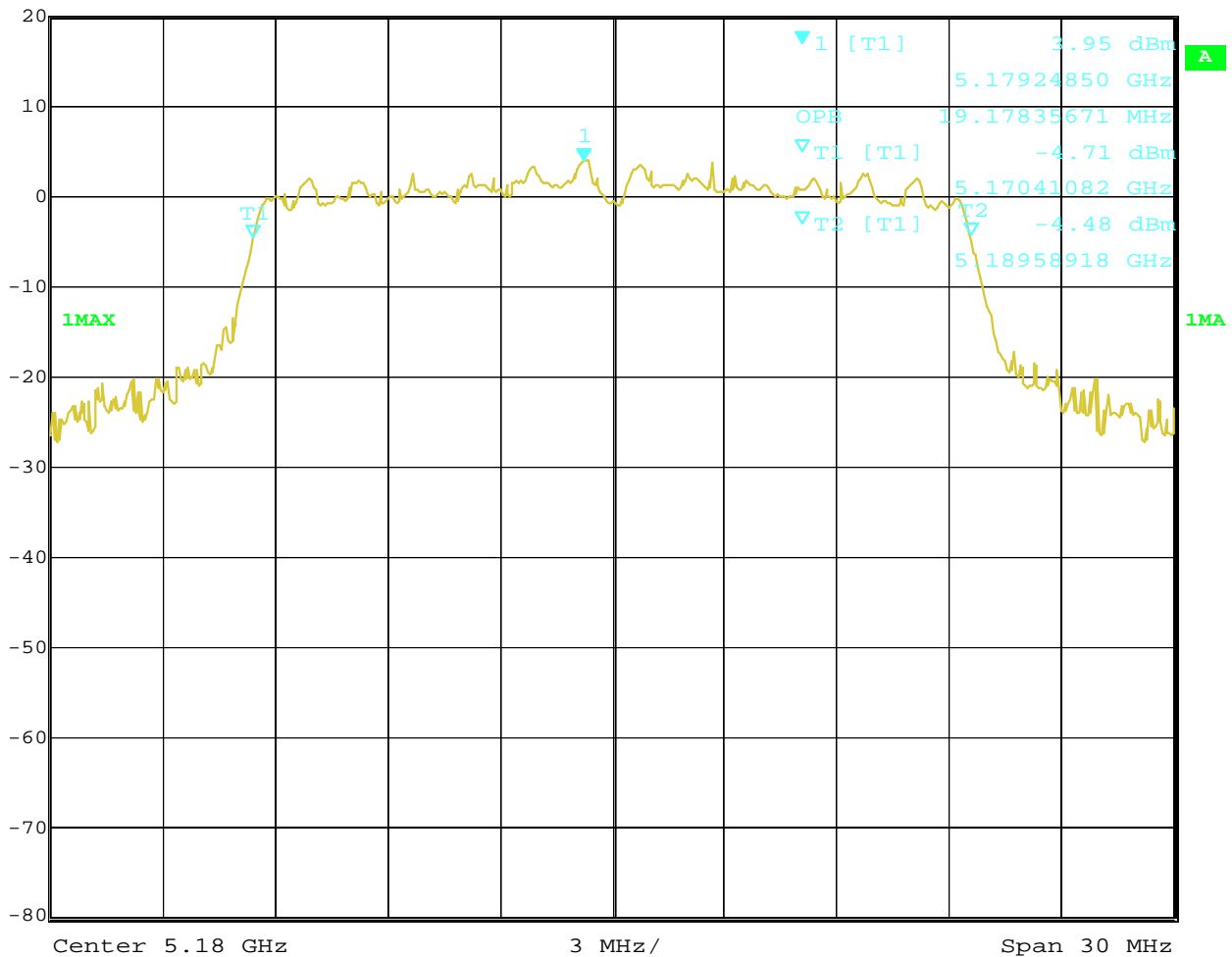


Test Configure

99% Bandwidth

Channel 36

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	3.95 dBm	VBW	1 MHz		
		5.17924850 GHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:02:50

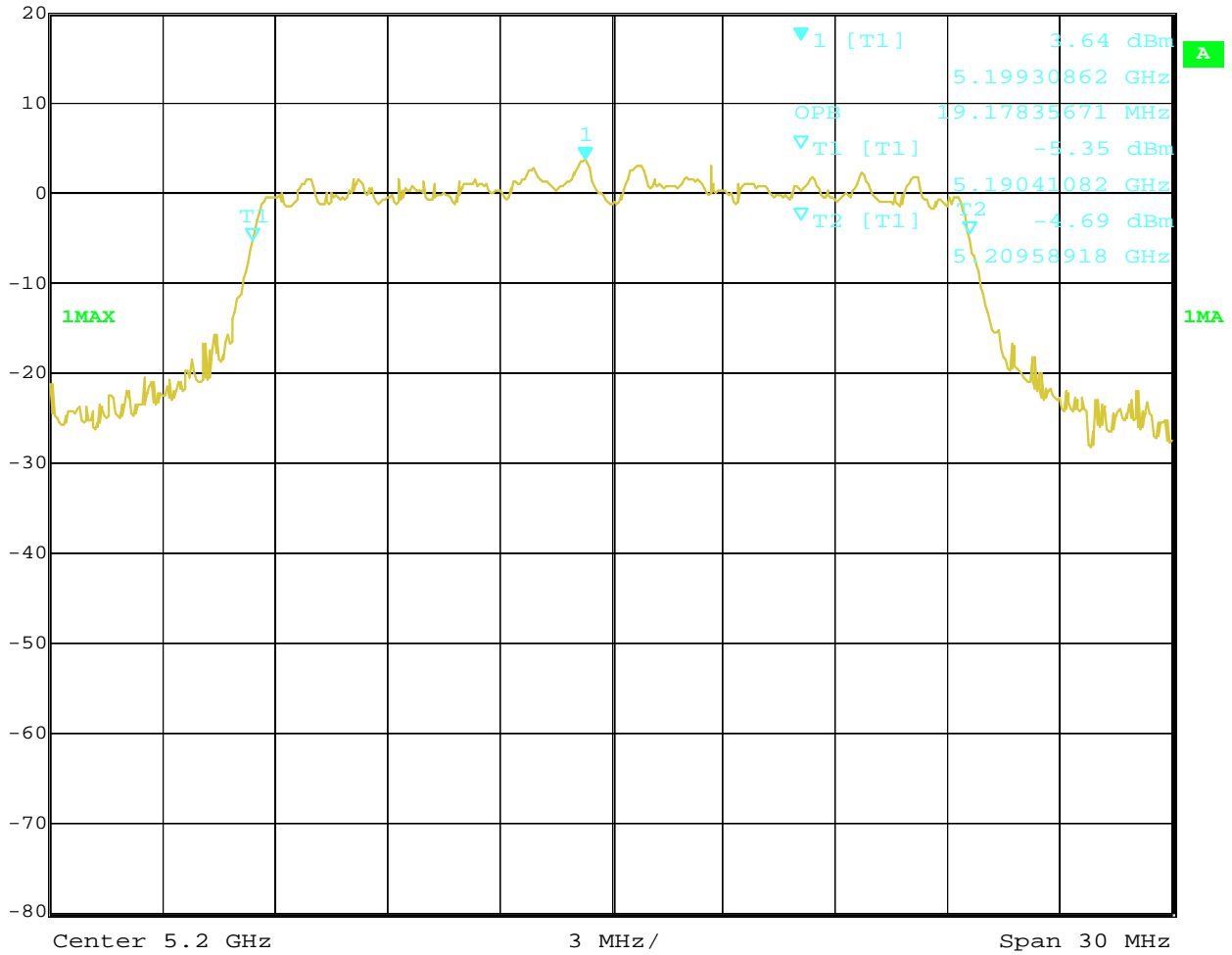
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Channel 40



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	3.64 dBm	VBW	1 MHz	Unit	dBm
	5.19930862 GHz	SWT	5 ms		



Date: 22.JUN.2021 14:20:05

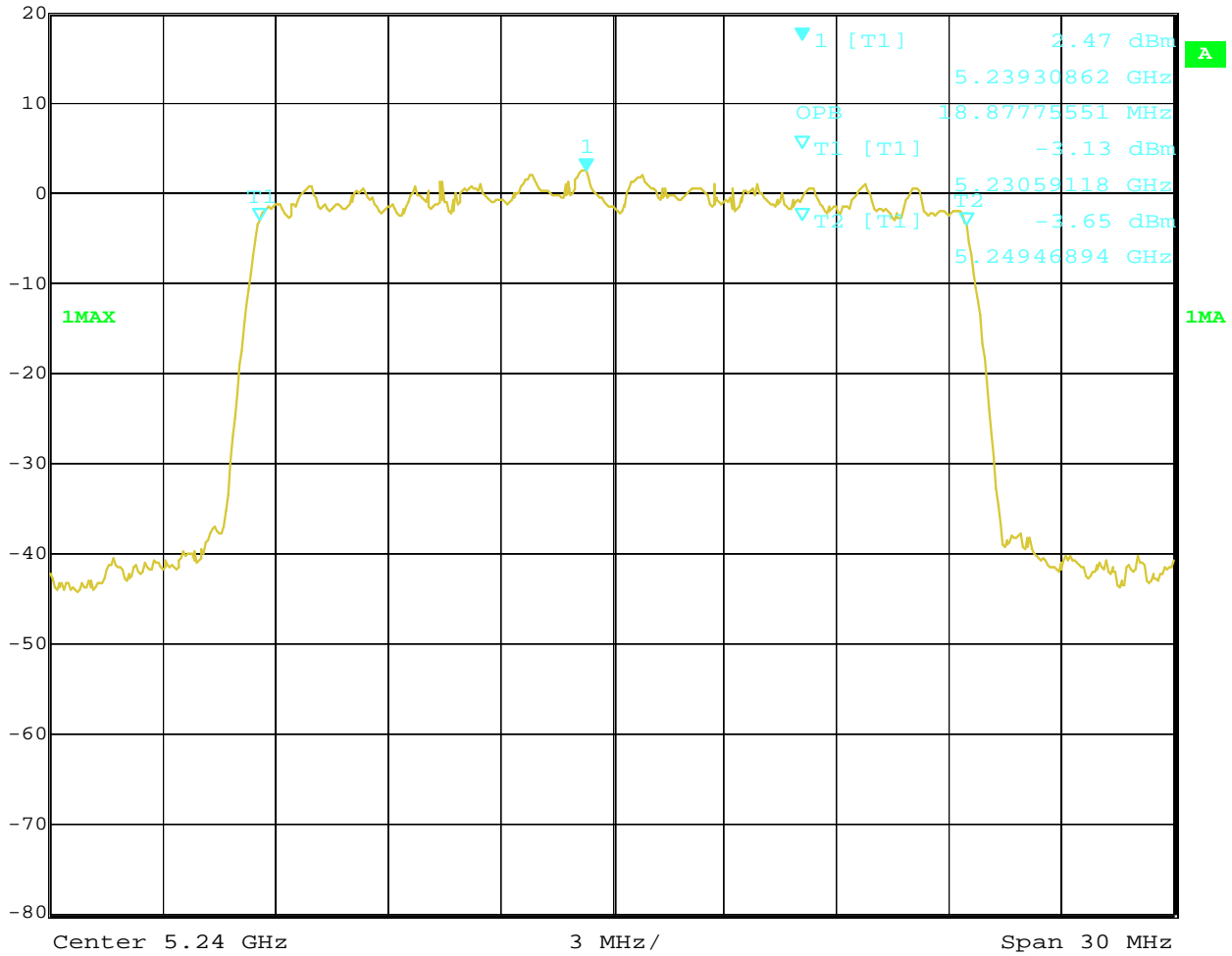
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Channel 48



Ref Lvl	20 dBm	Marker 1 [T1]	2.47 dBm	RBW	300 kHz	RF Att	30 dB
			5.23930862 GHz	VBW	1 MHz	Unit	dBm
				SWT	5 ms		



Date: 22.JUN.2021 14:30:06

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EUT		wireless router		Model	WR-AX01
Mode		802.11ax HEW20		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					
149	5745	6	24.29	--	Pass
153	5765	6	23.39	--	Pass
161	5805	6	23.75	--	Pass
6dB Bandwidth					
149	5745	6	18.99	0.5	Pass
153	5765	6	19.08	0.5	Pass
161	5805	6	18.71	0.5	Pass
99% Bandwidth					
149	5745	6	19.24	--	Pass
153	5765	6	19.24	--	Pass
161	5805	6	19.24	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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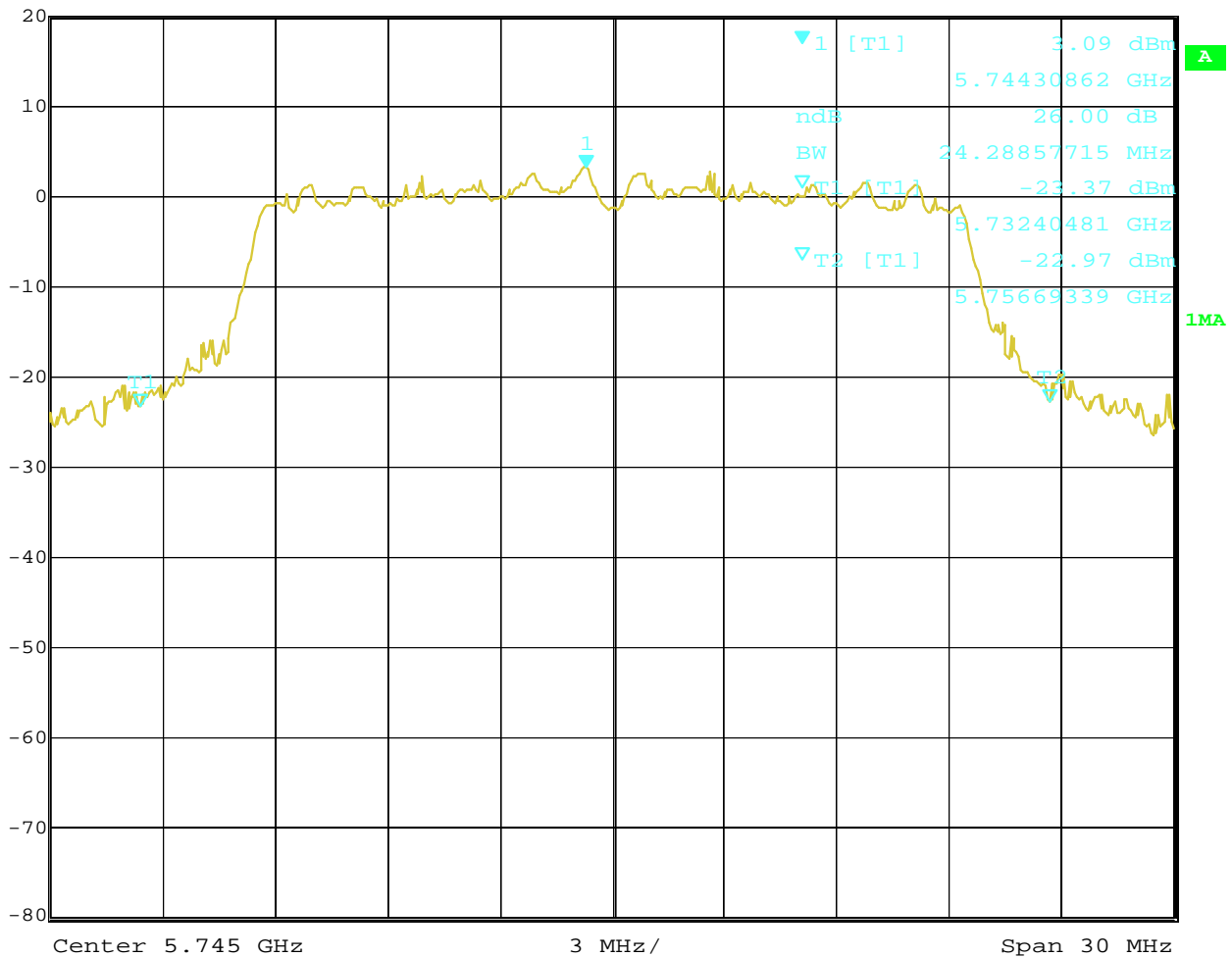


Test Configure

26dB Bandwidth

Channel 149

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	26.00 dB	RBW	300 kHz	RF Att	30 dB	
			BW	24.28857715 MHz	VBW	1 MHz	SWT	5 ms	Unit



Date: 23.JUN.2021 07:46:13

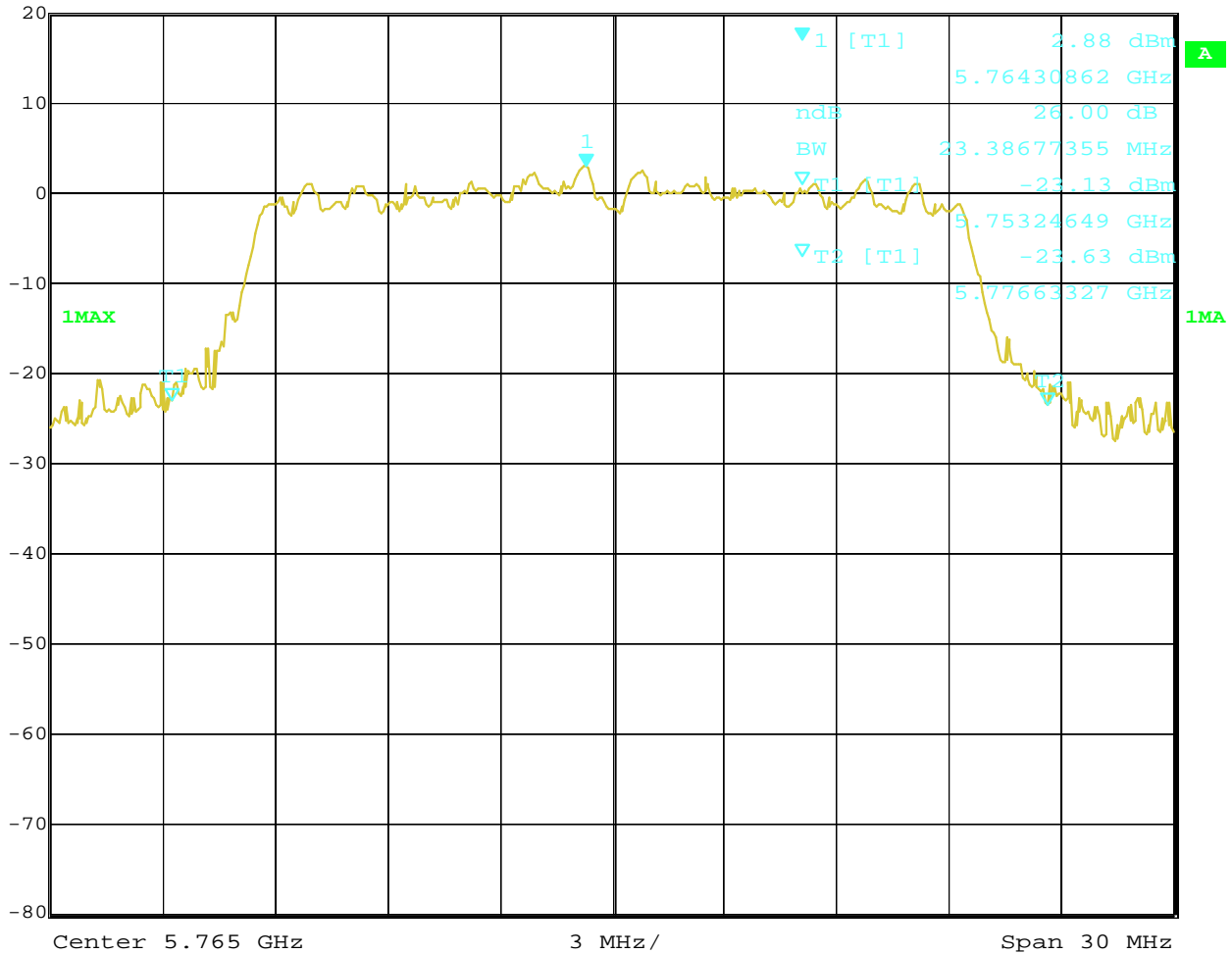
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Channel 153



Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
20 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 23.38677355 MHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:04:52

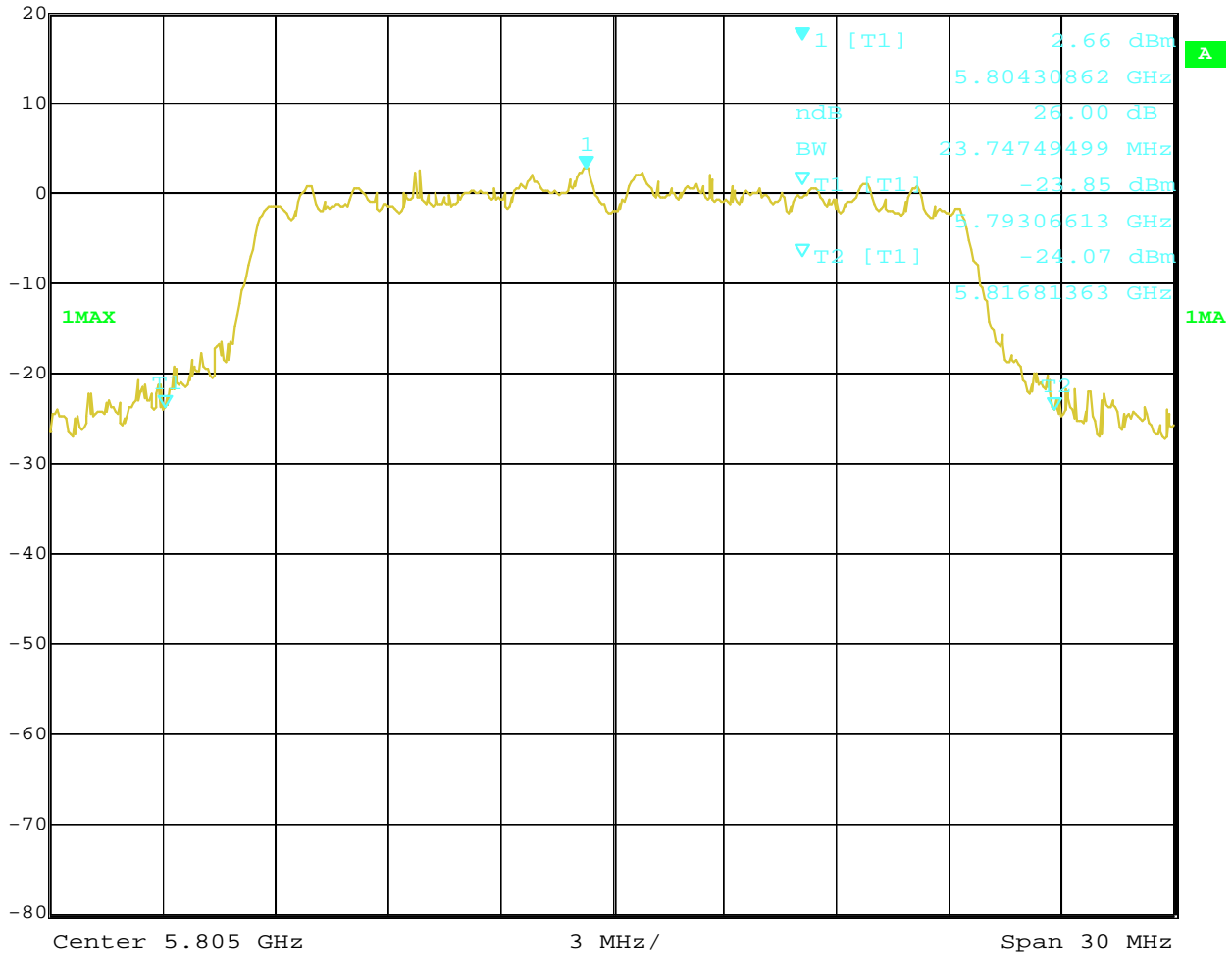
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Channel 161



Ref Lvl	Marker 1 [T1 ndB]	RBW	300 kHz	RF Att	30 dB
20 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 23.74749499 MHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:22:09

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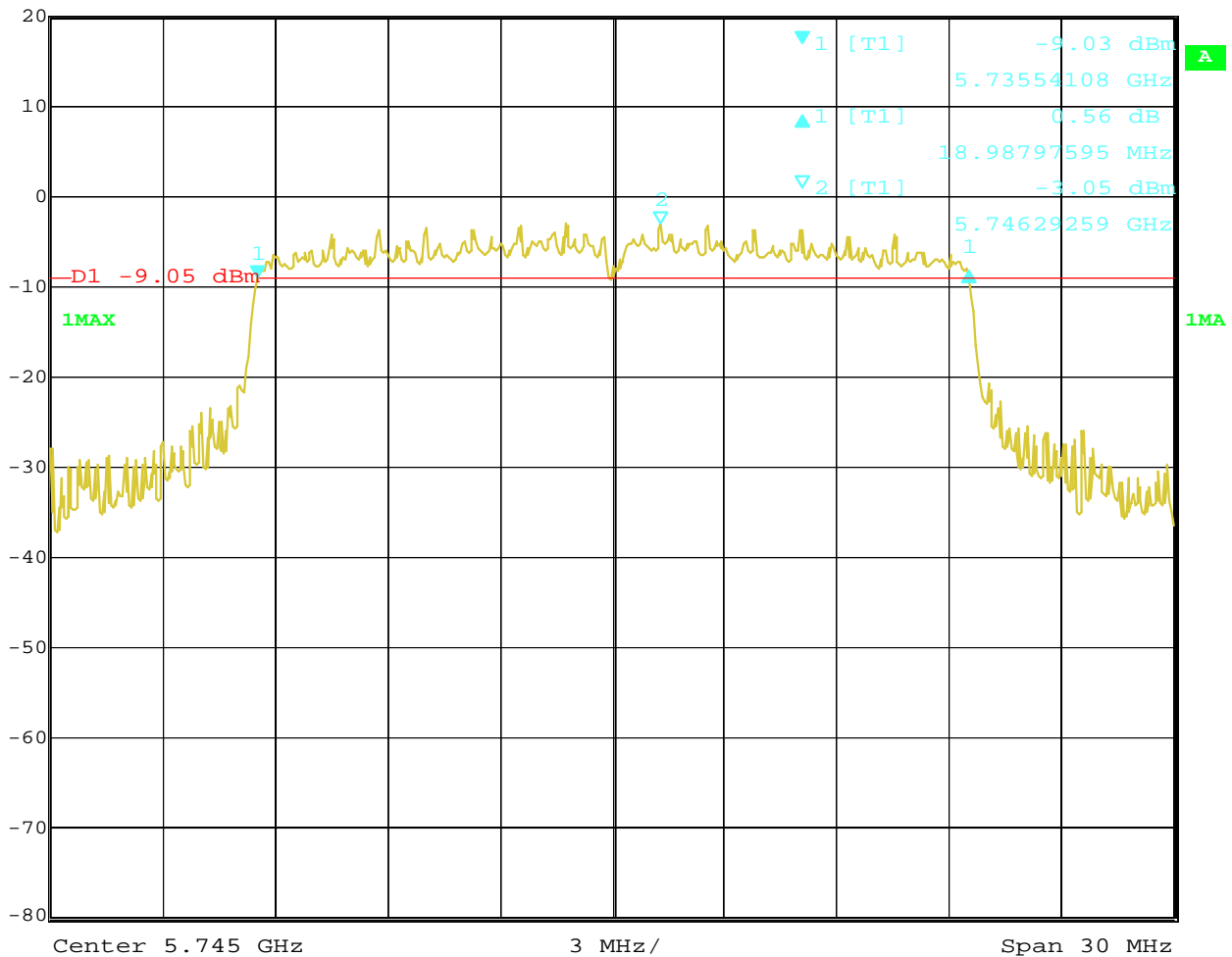


Test Configure

6dB Bandwidth

Channel 149

RS	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	0.56 dB	VBW	300 kHz	
	20 dBm	18.98797595 MHz	SWT	7.5 ms	Unit dBm



Date: 23.JUN.2021 07:57:56

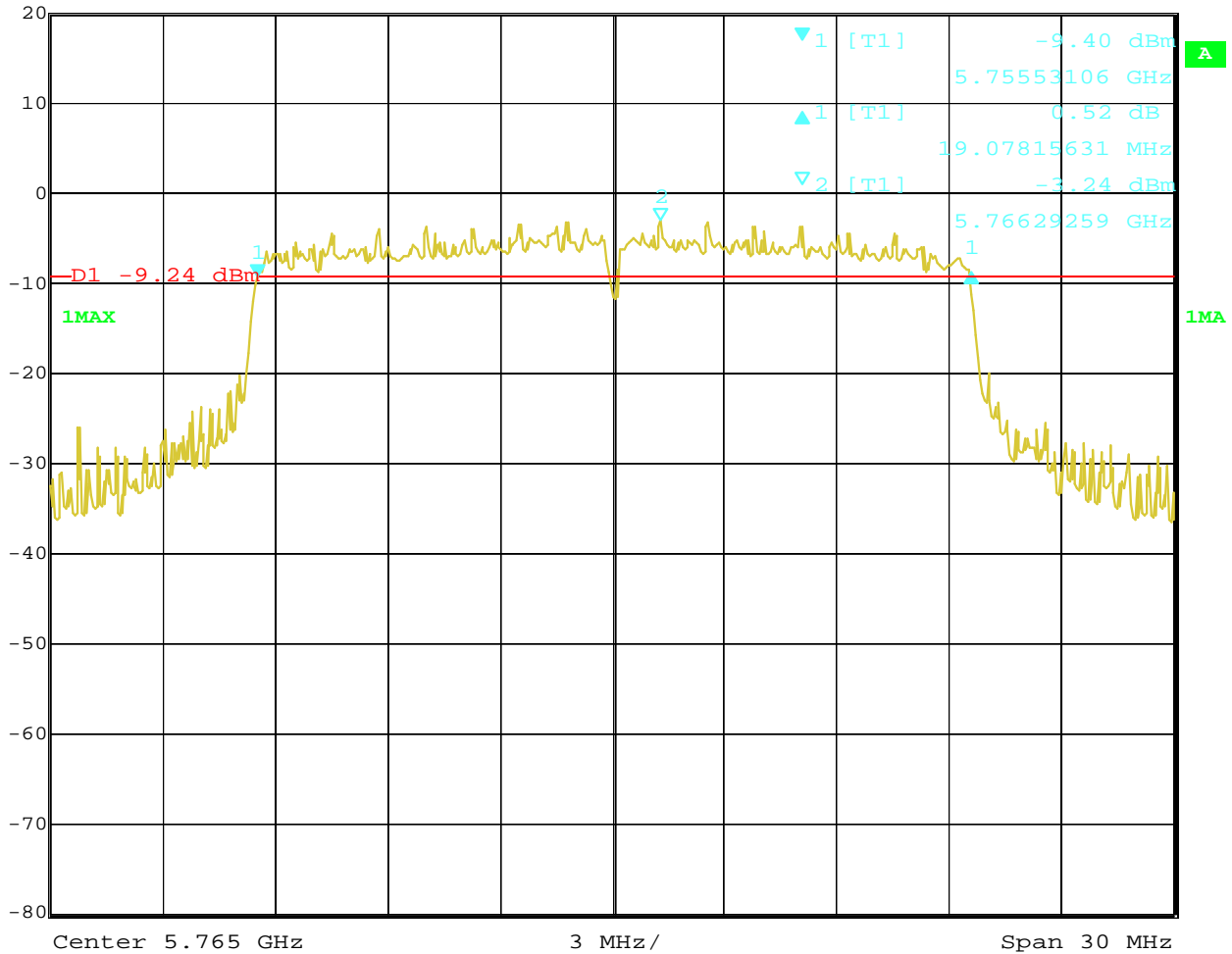
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Channel 153



	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	0.52 dB	VBW	300 kHz		
20 dBm	19.07815631 MHz	SWT	7.5 ms	Unit	dBm



Date: 23.JUN.2021 08:00:58

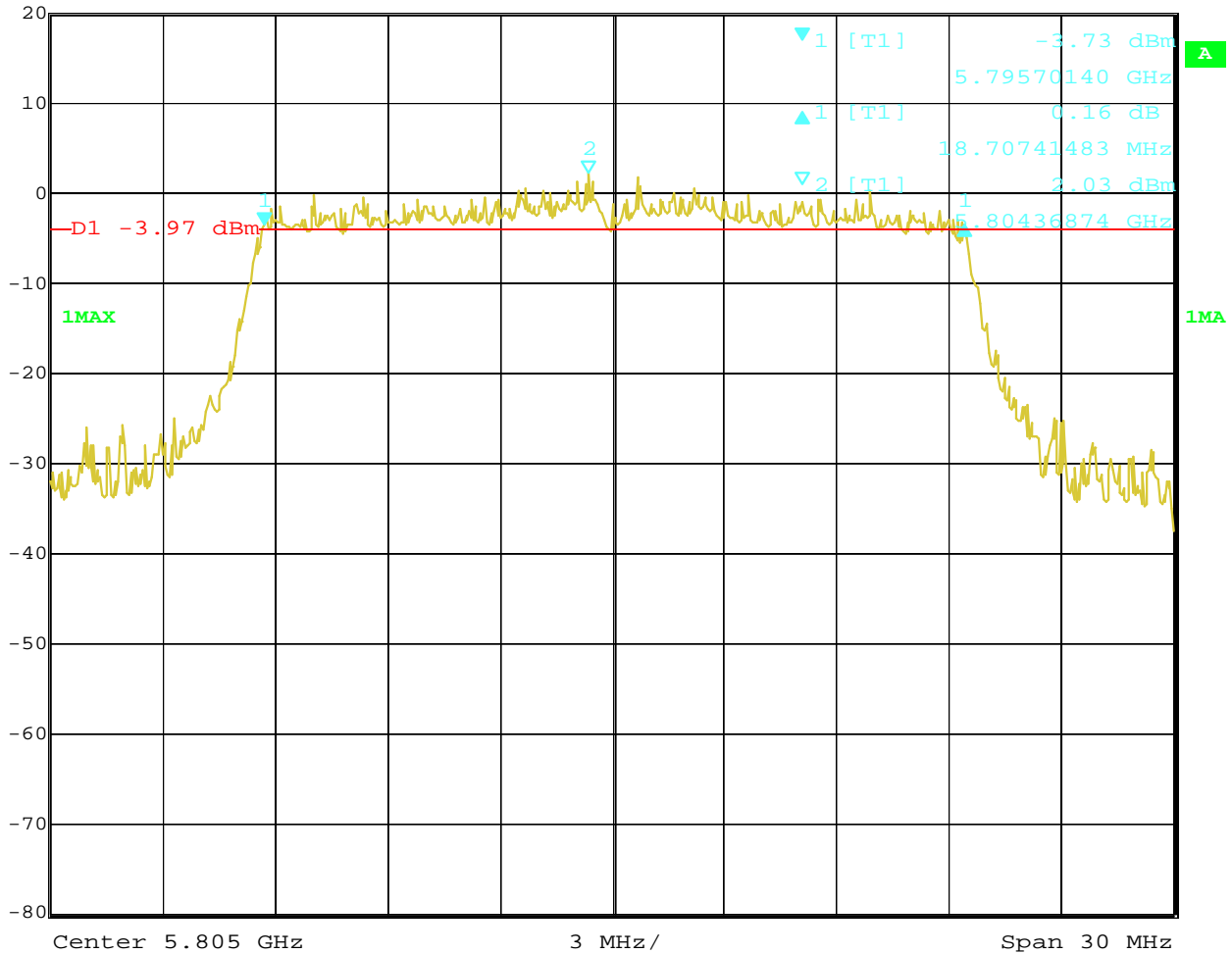
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Channel 161



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl 0.16 dB VBW 300 kHz
 20 dBm 18.70741483 MHz SWT 7.5 ms Unit dBm



Date: 23.JUN.2021 08:18:07

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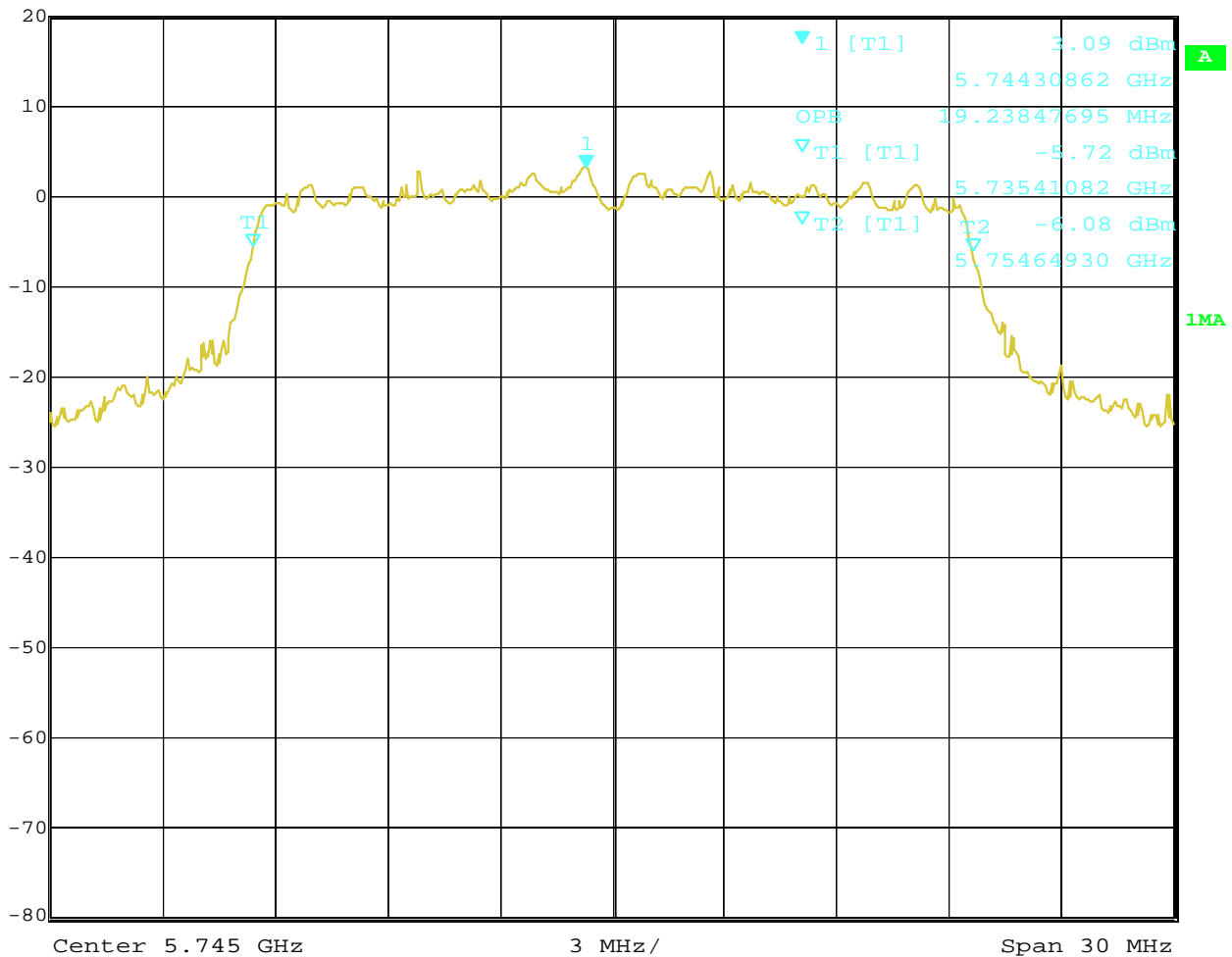


Test Configure

99% Bandwidth

Channel 149

	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
	20 dBm	3.09 dBm	VBW	1 MHz		
		5.74430862 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 07:47:19

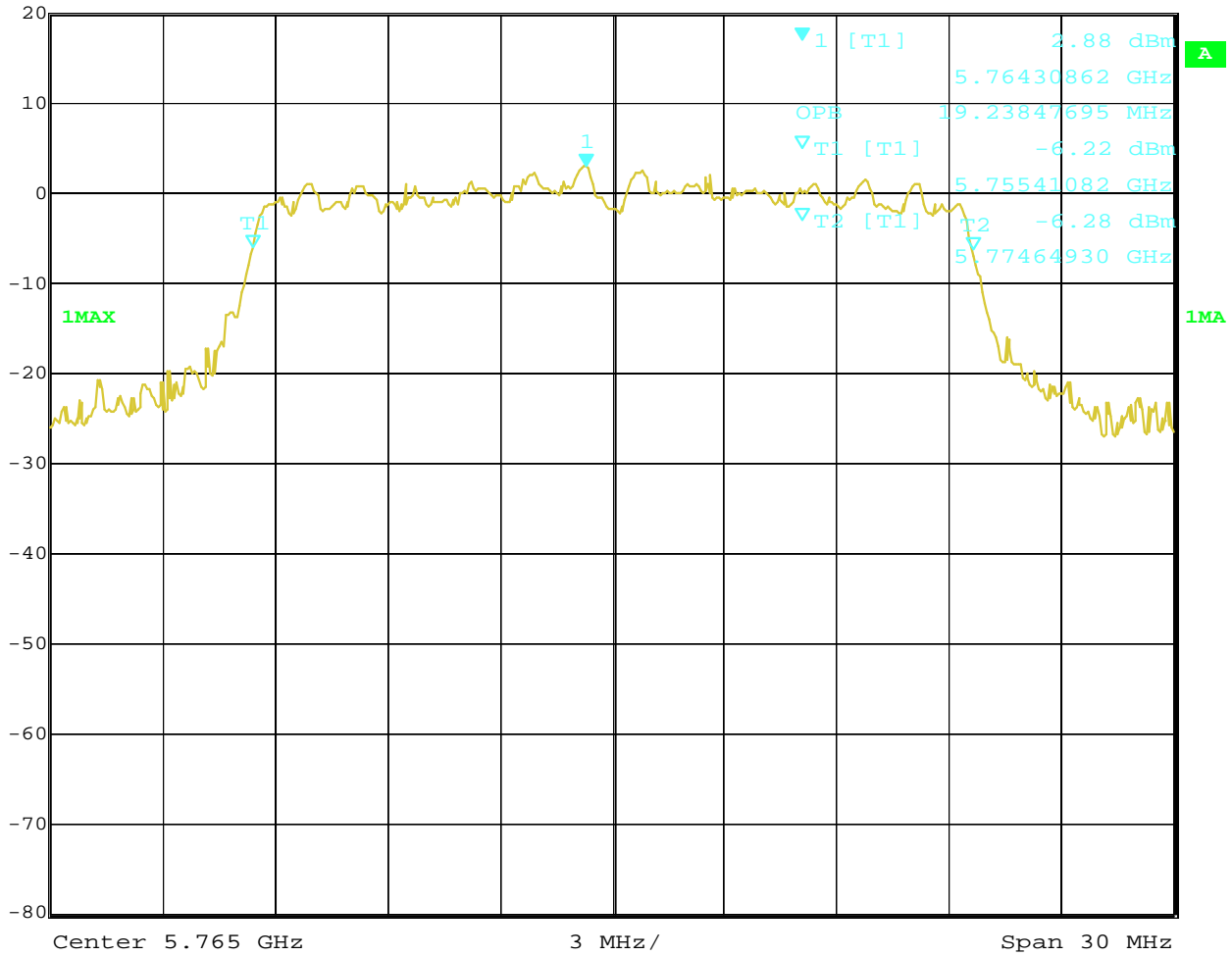
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Channel 153



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	2.88 dBm	VBW	1 MHz		
	5.76430862 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:05:11

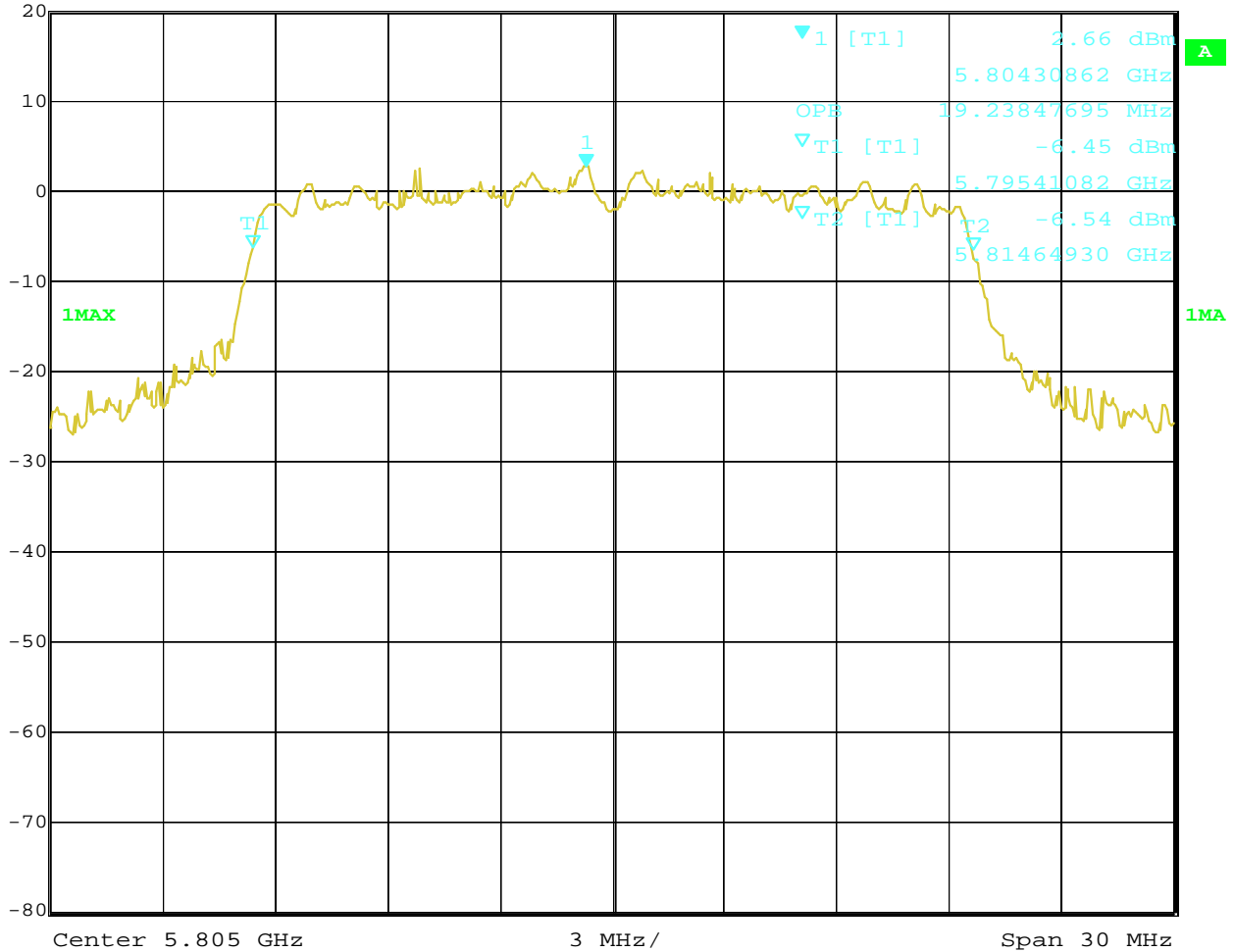
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Channel 161



Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	30 dB
20 dBm	2.66 dBm	VBW	1 MHz		
	5.80430862 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:22:25

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EUT		wireless router		Model	WR-AX01
Mode		802.11ax HEW40		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					
38	5190	mcs0	40.76	--	Pass
46	5230	mcs0	40.76	--	Pass
99% Bandwidth					
38	5190	mcs0	37.76	--	Pass
46	5230	mcs0	37.64	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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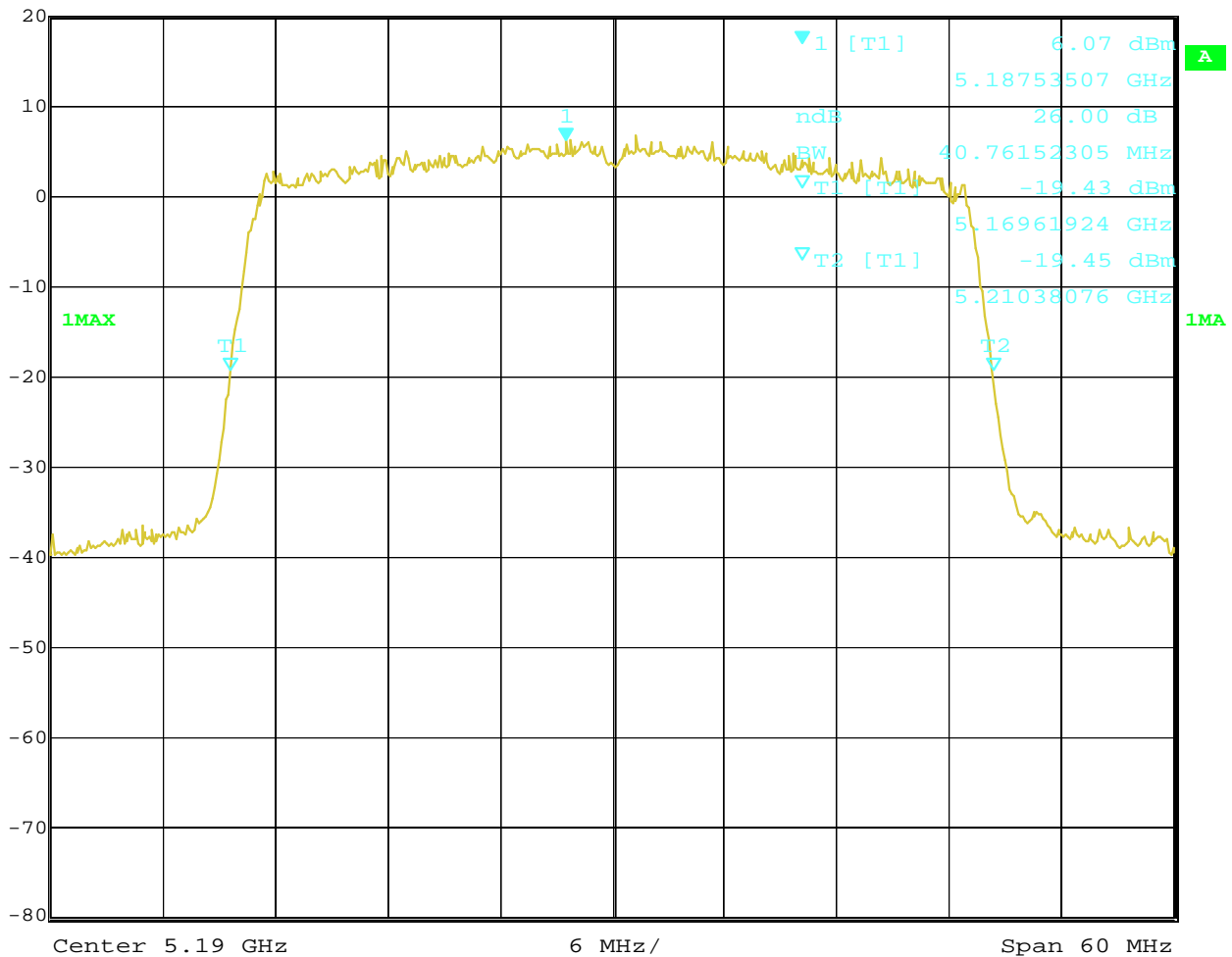


Test Configure

26dB Bandwidth

Channel 38

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB	
			BW	40.76152305 MHz	VBW	3 MHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:49:33

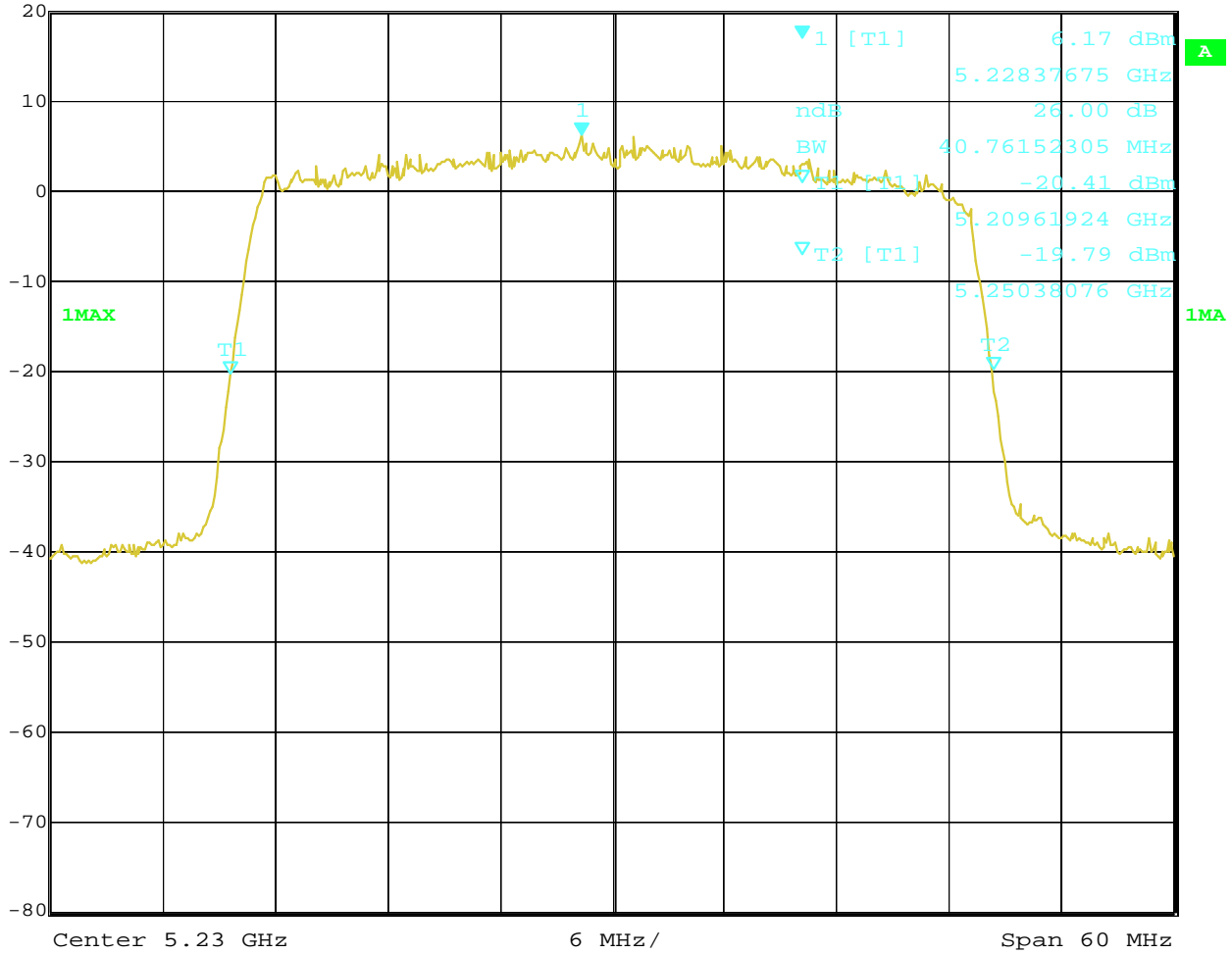
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Channel 46



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	40.76152305 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 22.JUN.2021 14:57:18

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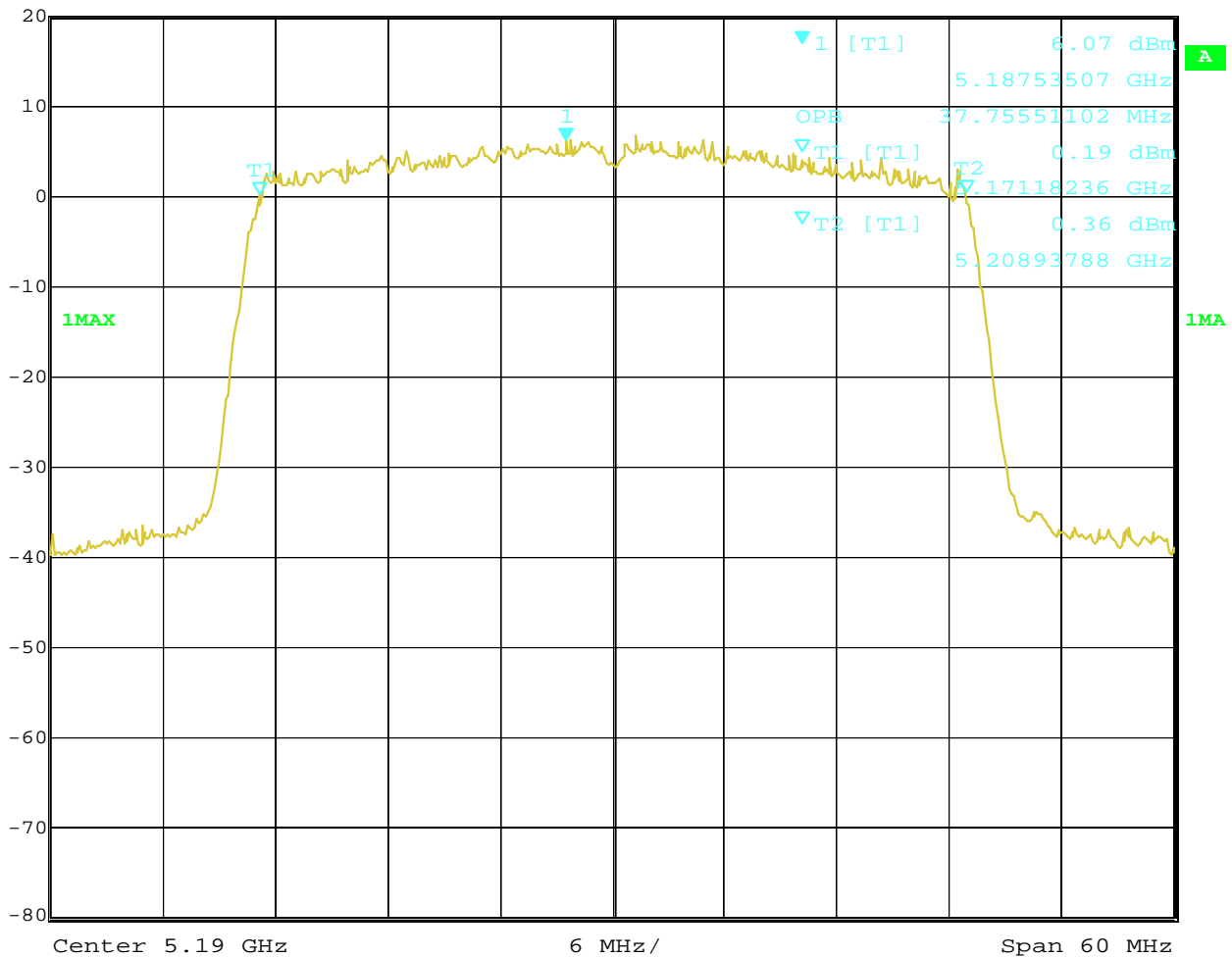


Test Configure

99% Bandwidth

Channel 38

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	6.07 dBm	VBW	3 MHz		
		5.18753507 GHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:49:49

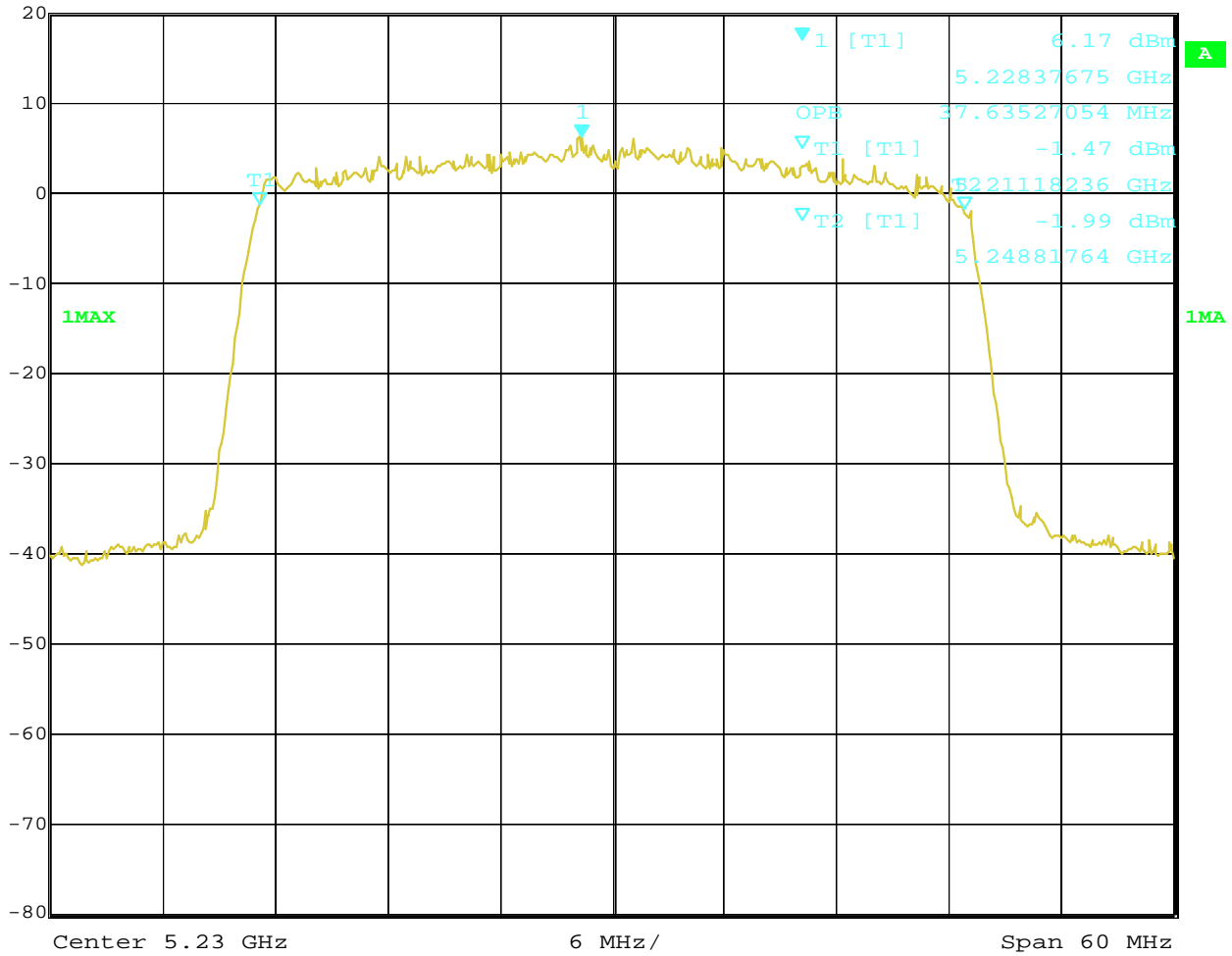
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Channel 46



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	6.17 dBm	VBW	3 MHz		
	5.22837675 GHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 14:57:58

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EUT		wireless router		Model	WR-AX01
Mode		802.11ax HEW40		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					
151	5755	mcs0	40.64	--	Pass
159	5795	mcs0	40.76	--	Pass
6dB Bandwidth					
151	5755	mcs0	37.36	0.5	Pass
159	5795	mcs0	37.13	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.76	--	Pass
159	5795	mcs0	37.76	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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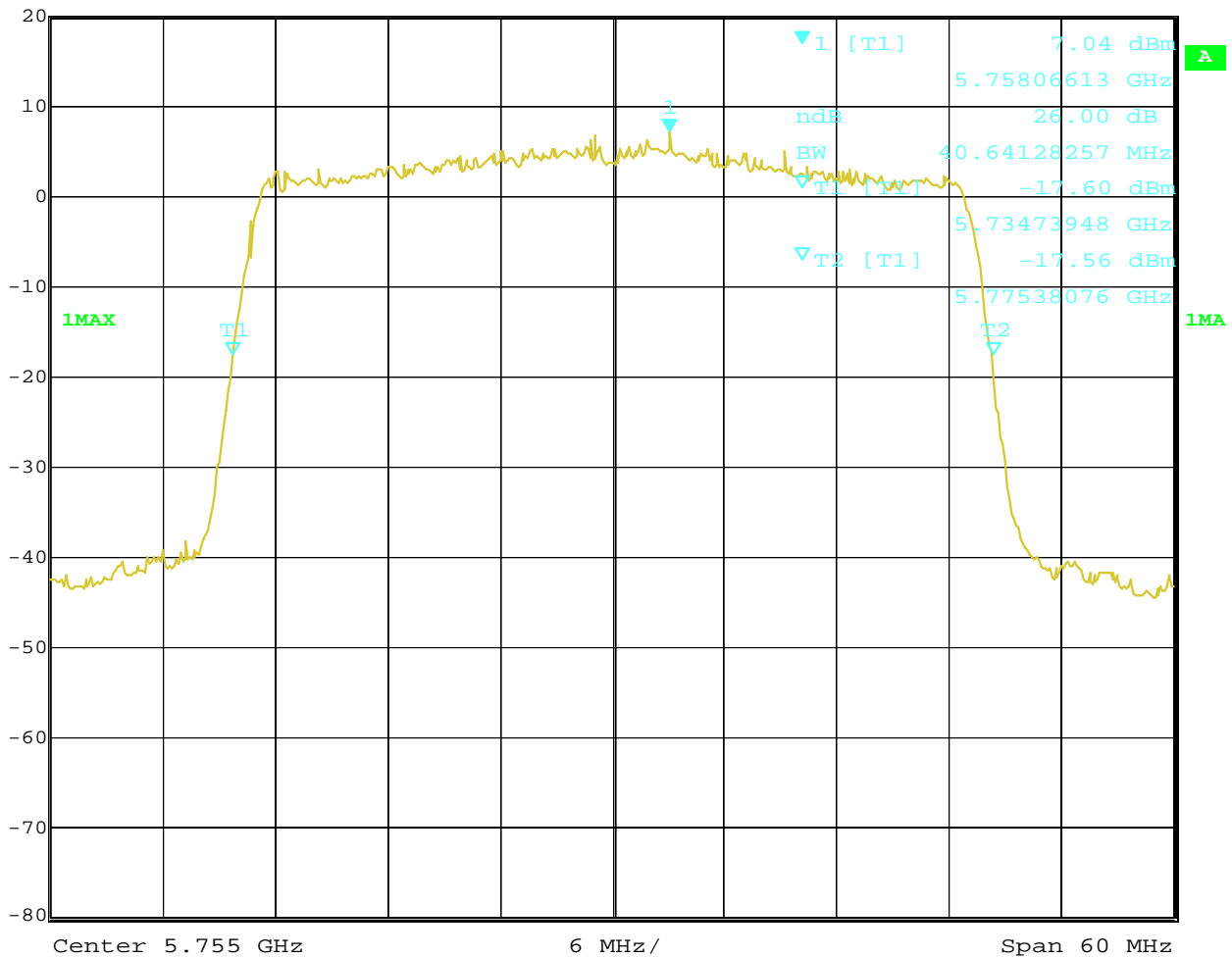


Test Configure

26dB Bandwidth

Channel 151

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB	
			BW	40.64128257 MHz	VBW	3 MHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:51:32

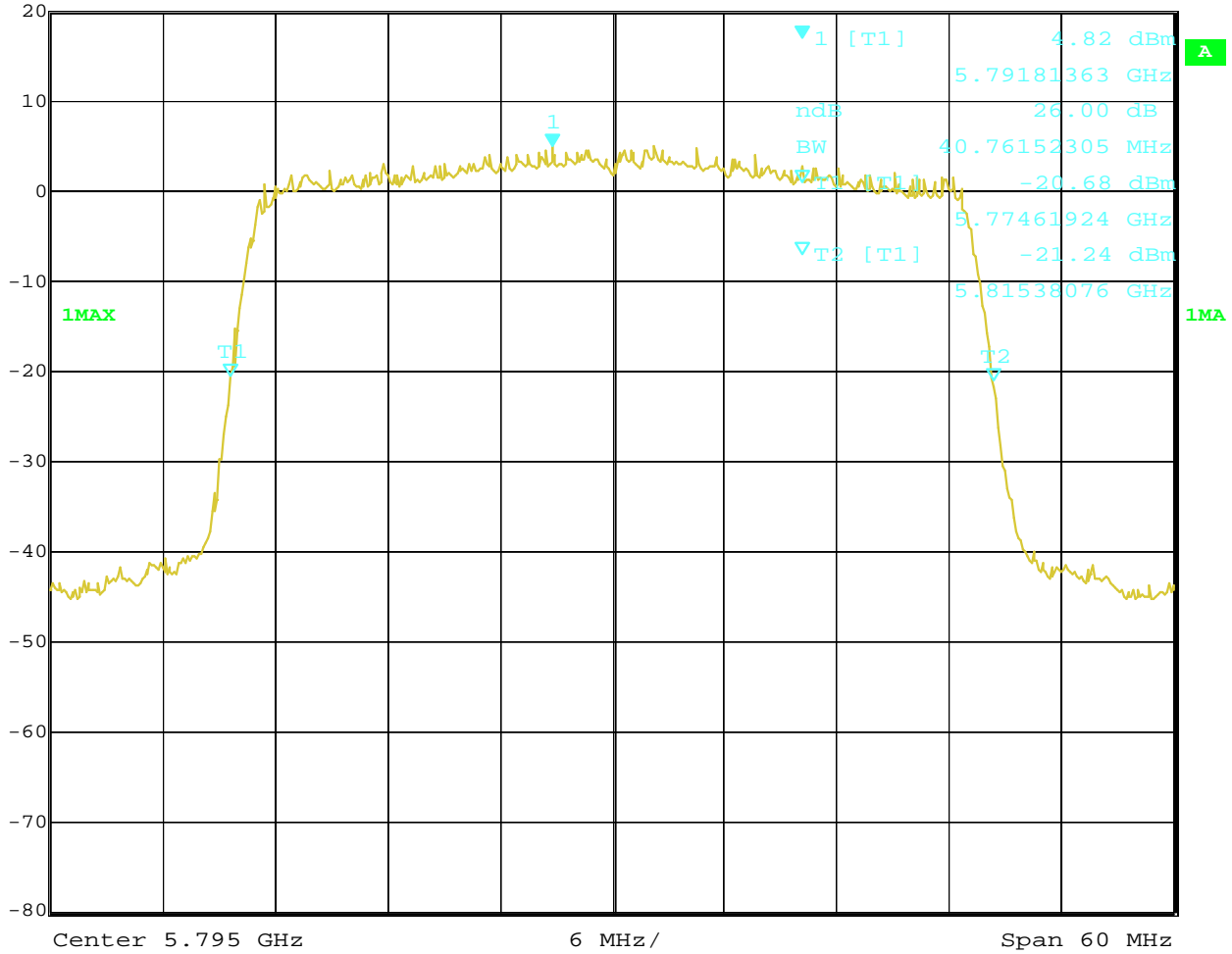
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Channel 159



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
		BW	40.76152305 MHz		VBW	3 MHz	Unit	dBm
					SWT	5 ms		



Date: 23.JUN.2021 11:00:29

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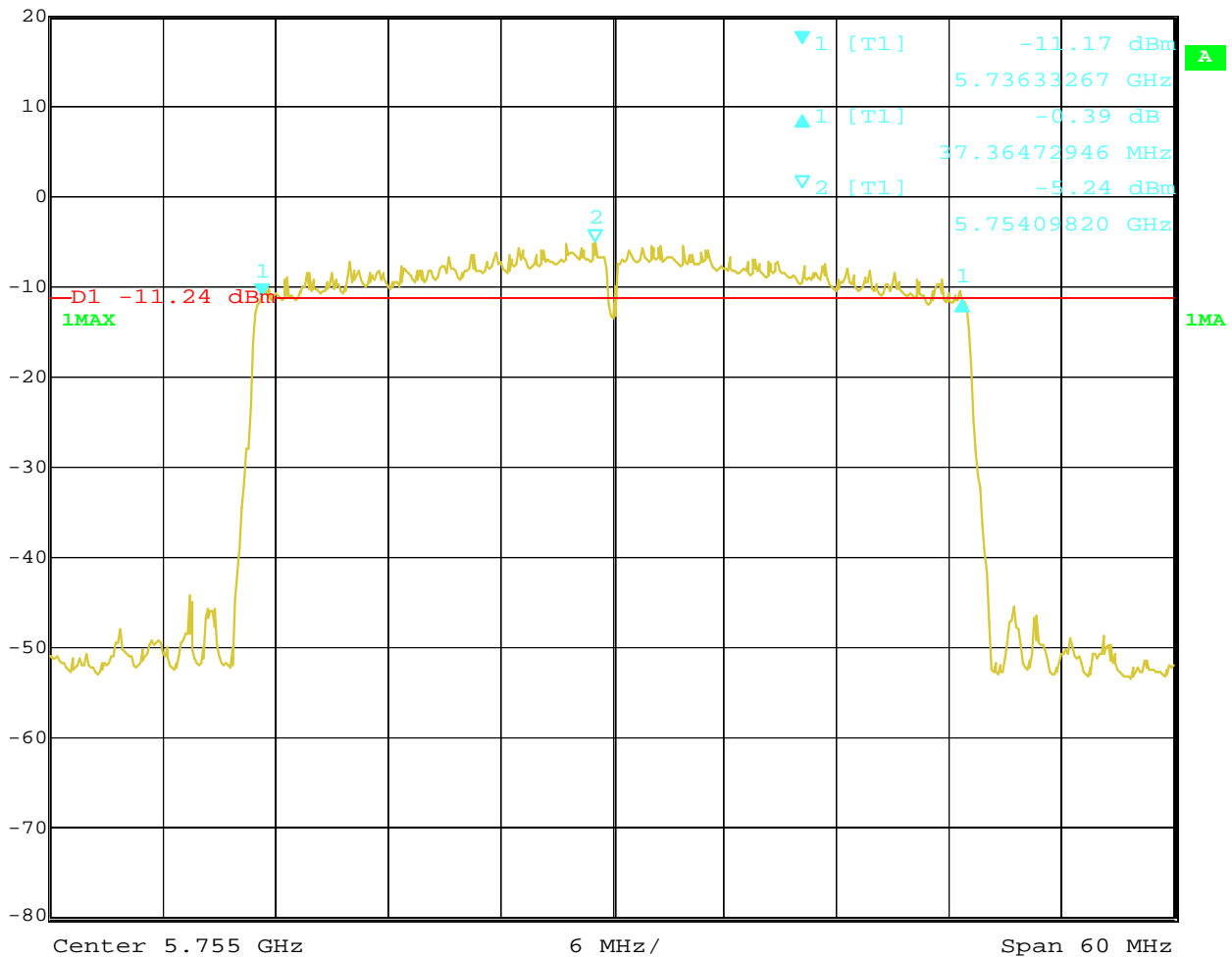


Test Configure

6dB Bandwidth

Channel 151

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	-0.39 dB	VBW	300 kHz	
	20 dBm	37.36472946 MHz	SWT	15 ms	Unit dBm



Date: 23.JUN.2021 08:46:28

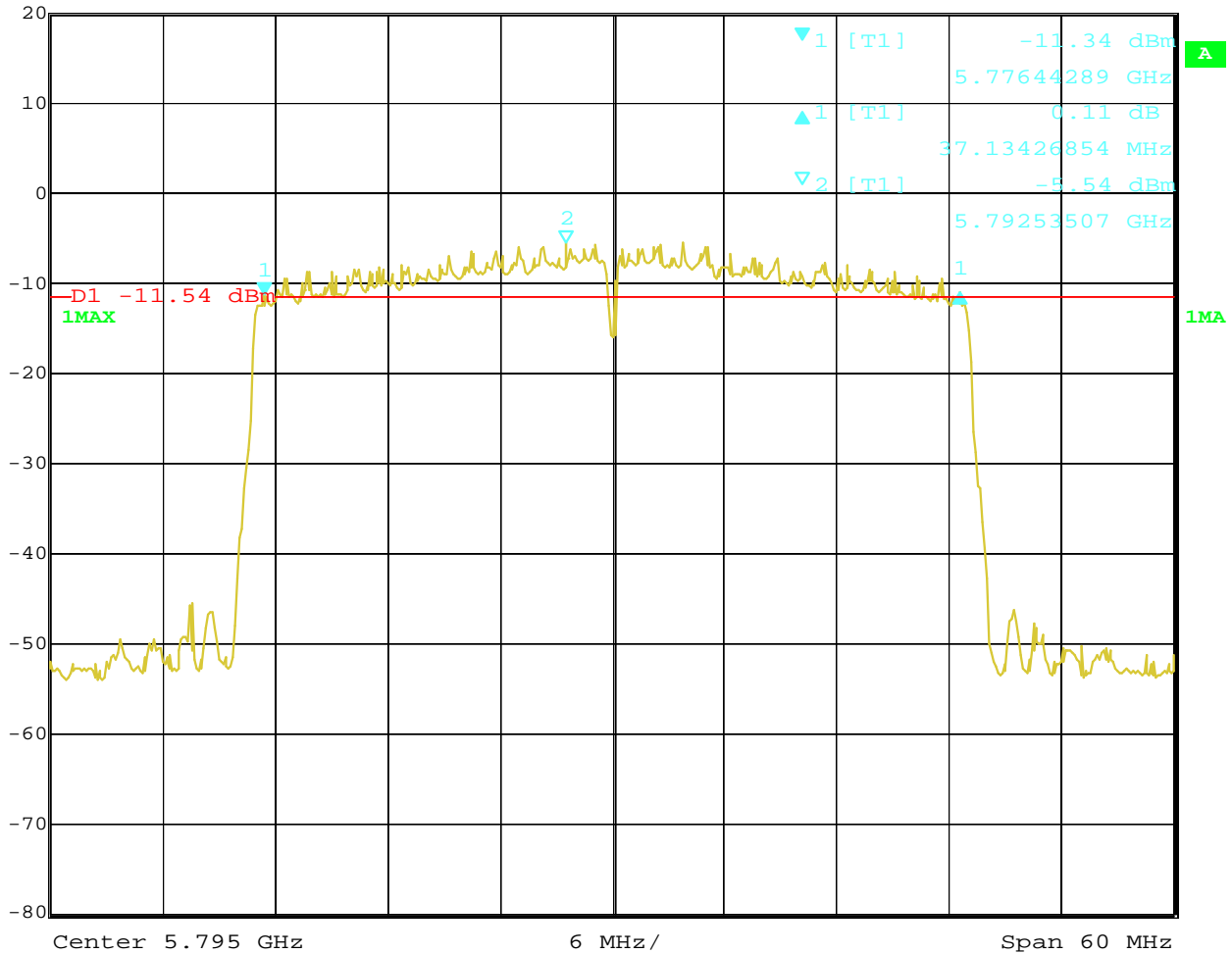
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Channel 159



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl 0.11 dB VBW 300 kHz
 20 dBm 37.13426854 MHz SWT 15 ms Unit dBm



Date: 23.JUN.2021 10:59:34

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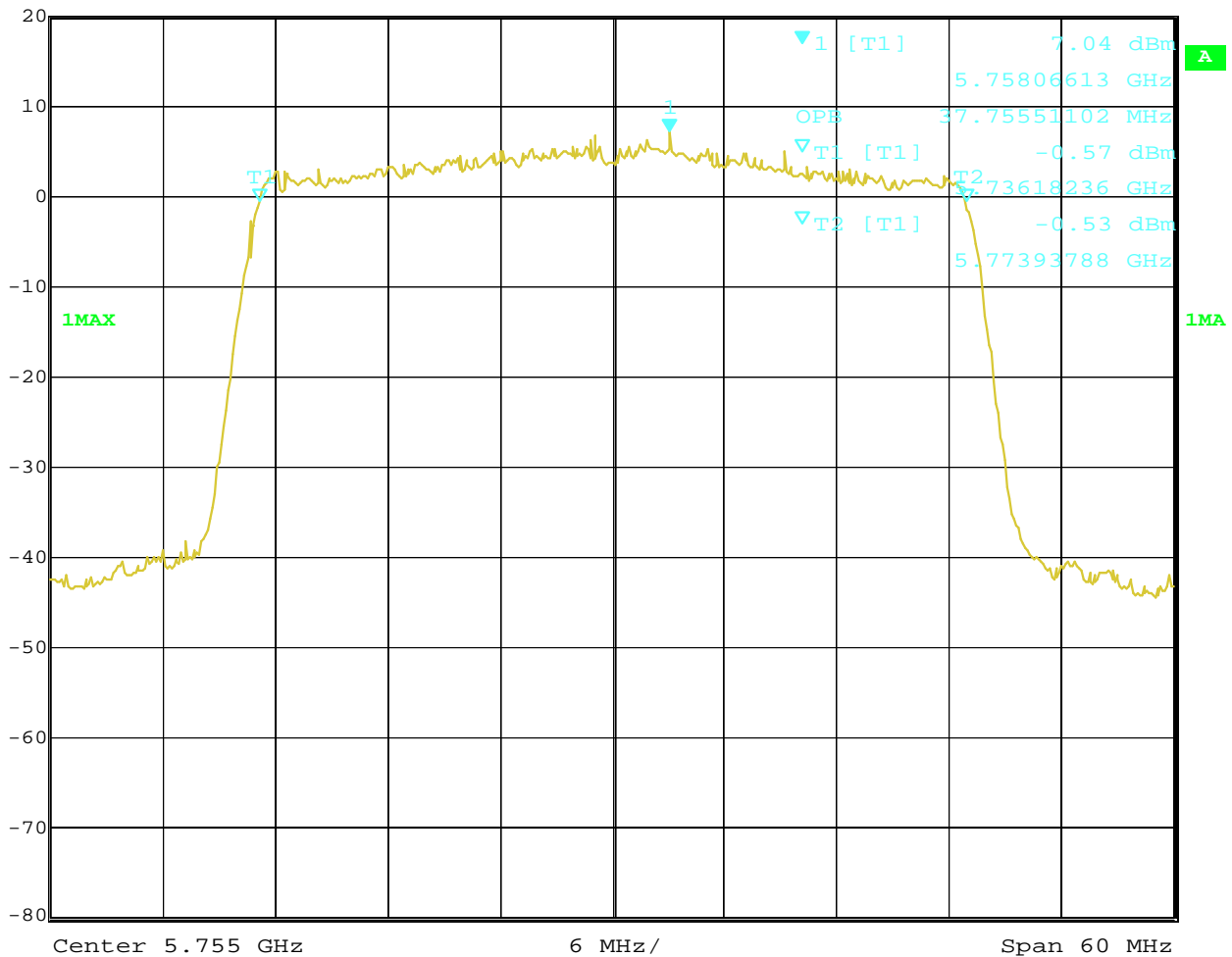


Test Configure

99% Bandwidth

Channel 151

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	7.04 dBm	VBW	3 MHz		
		5.75806613 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 08:51:45

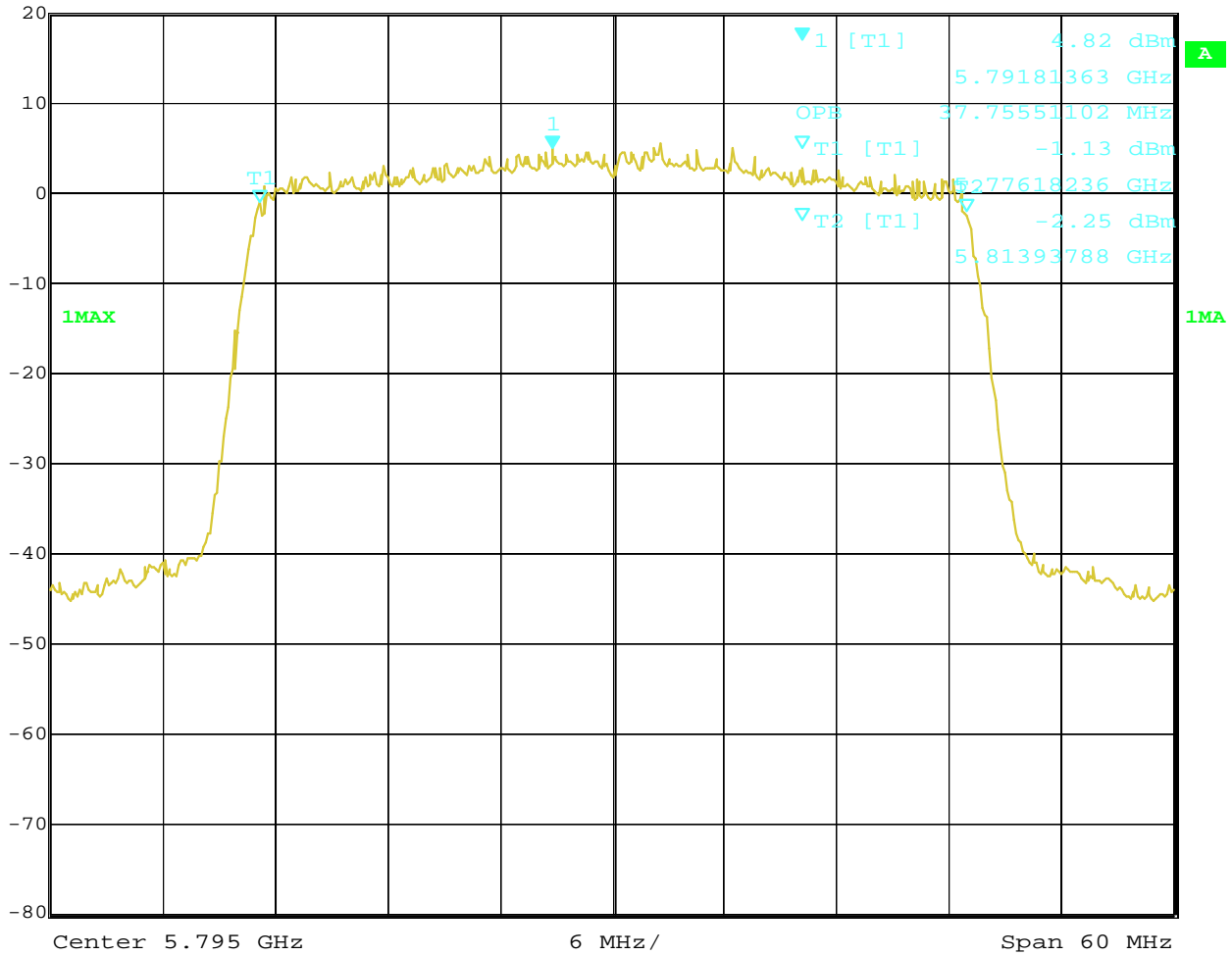
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Channel 159



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	4.82 dBm	VBW	3 MHz		
	5.79181363 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 11:00:44

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EUT		wireless router		Model	WR-AX01
Mode		802.11ax HEW80		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	mcs0	81.04	--	Pass
99% Bandwidth					
42	5210	mcs0	76.71	--	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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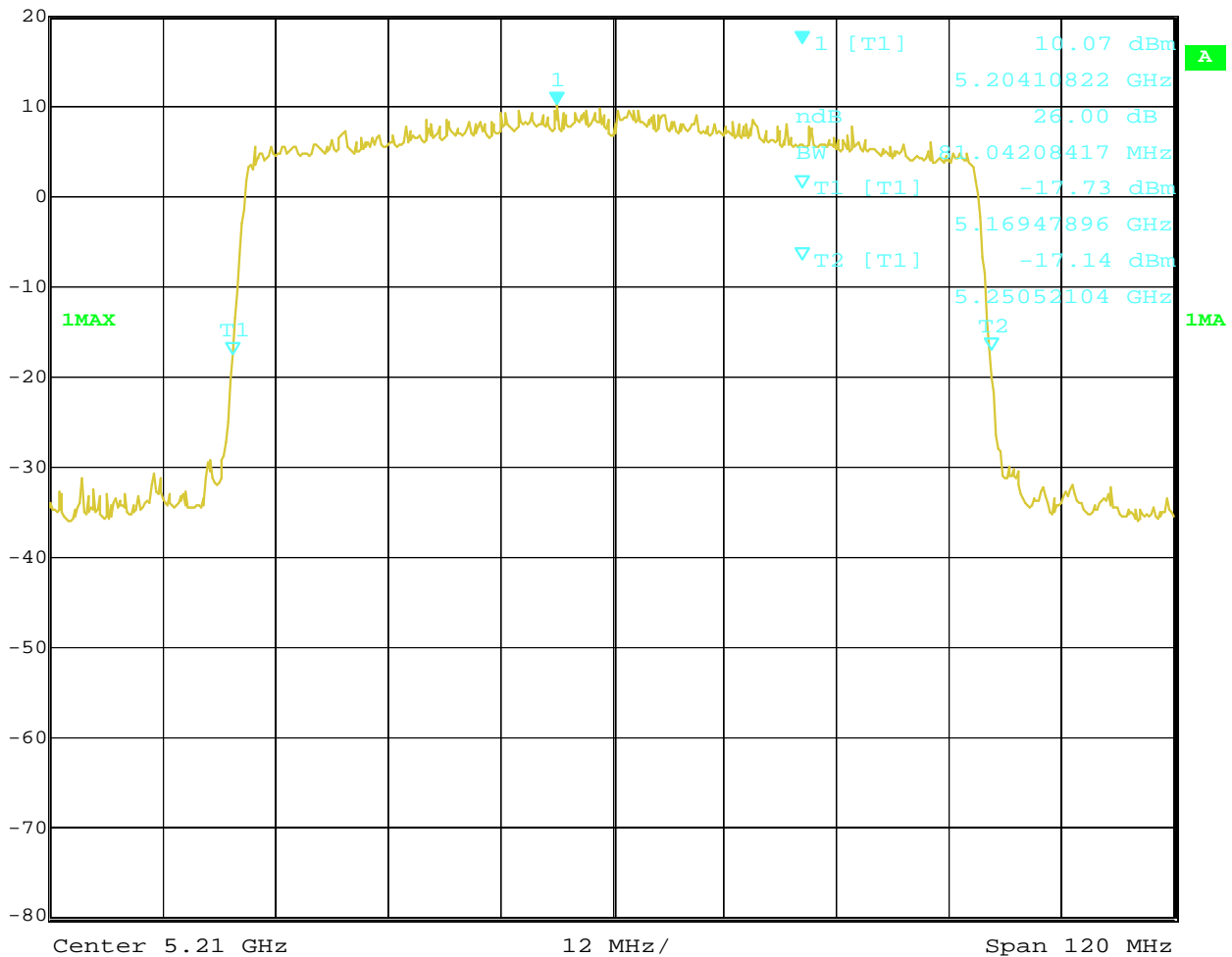


Test Configure

26dB Bandwidth

Channel 42

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB	
			BW	81.04208417 MHz	VBW	3 MHz	SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 15:03:33

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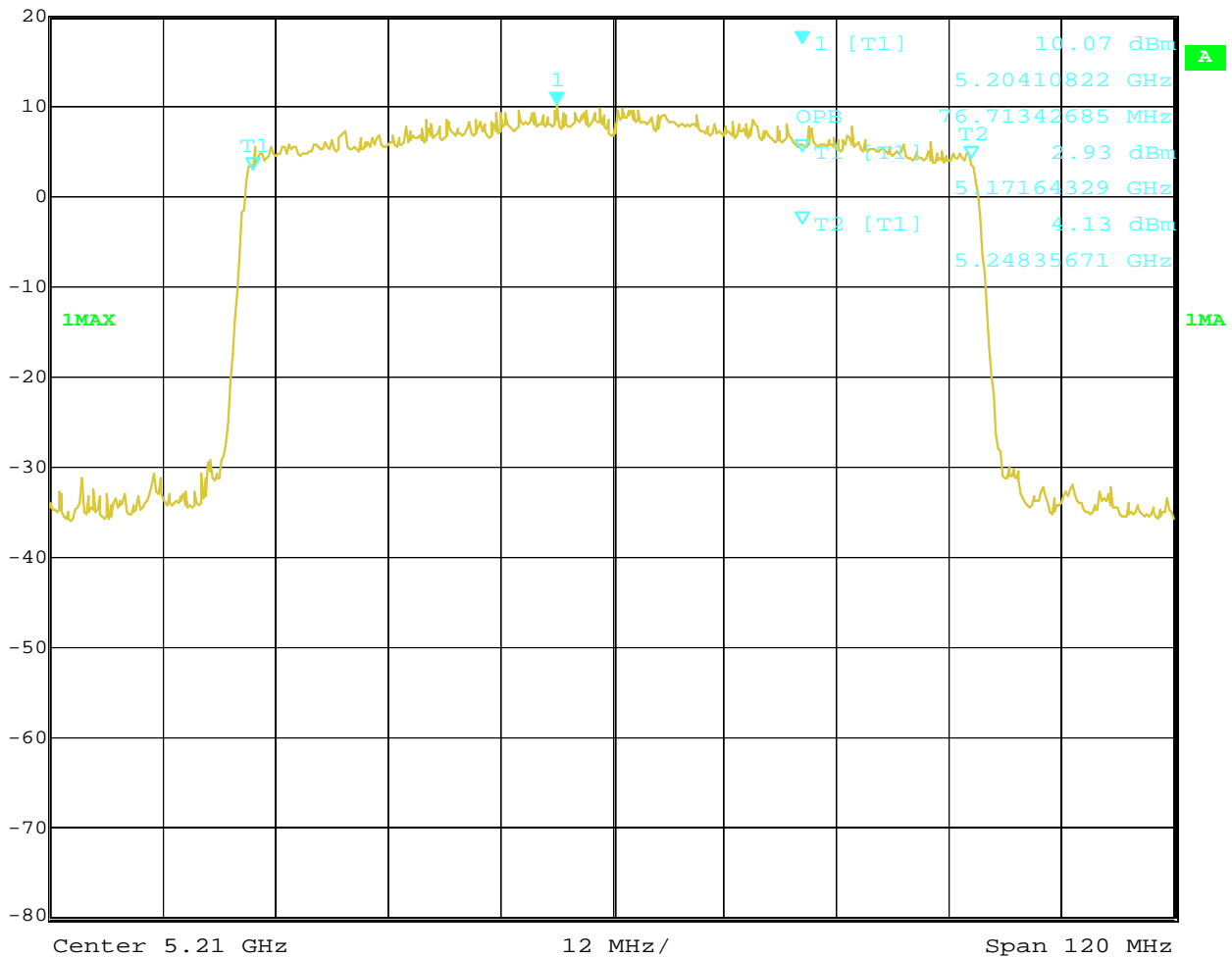


Test Configure

99% Bandwidth

Channel 42

	Ref Lvl	20 dBm	Marker 1 [T1]	10.07 dBm	RBW	1 MHz	RF Att	30 dB
			5.20410822 GHz		VBW	3 MHz		
					SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 15:03:46

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EUT		wireless router		Model	WR-AX01	
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						
155	5775	mcs0	81.04	--	Pass	
6dB Bandwidth						
155	5775	mcs0	75.99	0.5	Pass	
99% Bandwidth						
155	5775	mcs0	76.95	--	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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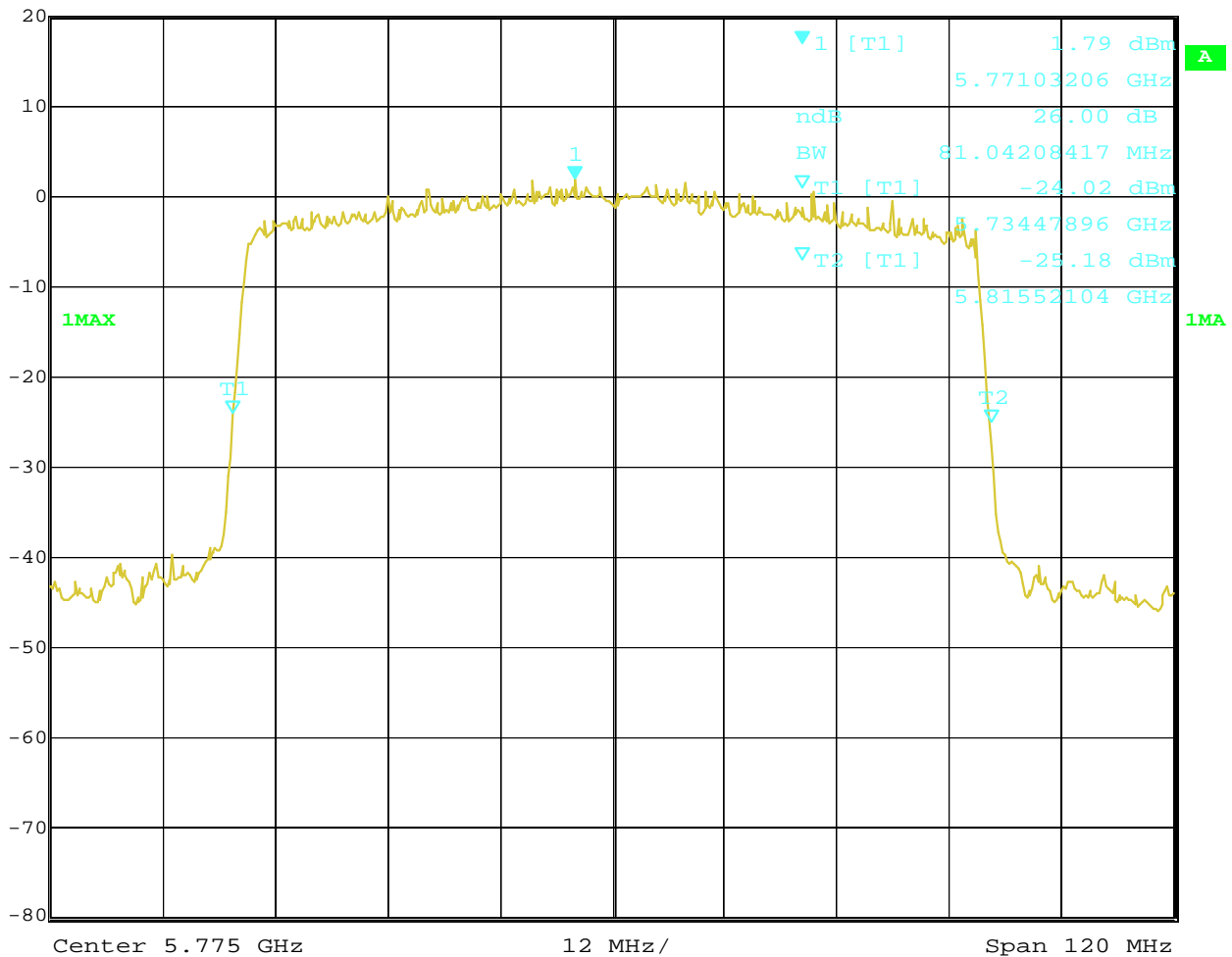


Test Configure

26dB Bandwidth

Channel 155

	Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	26.00 dB	RBW	1 MHz	RF Att	30 dB
			BW	81.04208417 MHz	SWT	5 ms	Unit	dBm	



Date: 23.JUN.2021 10:53:38

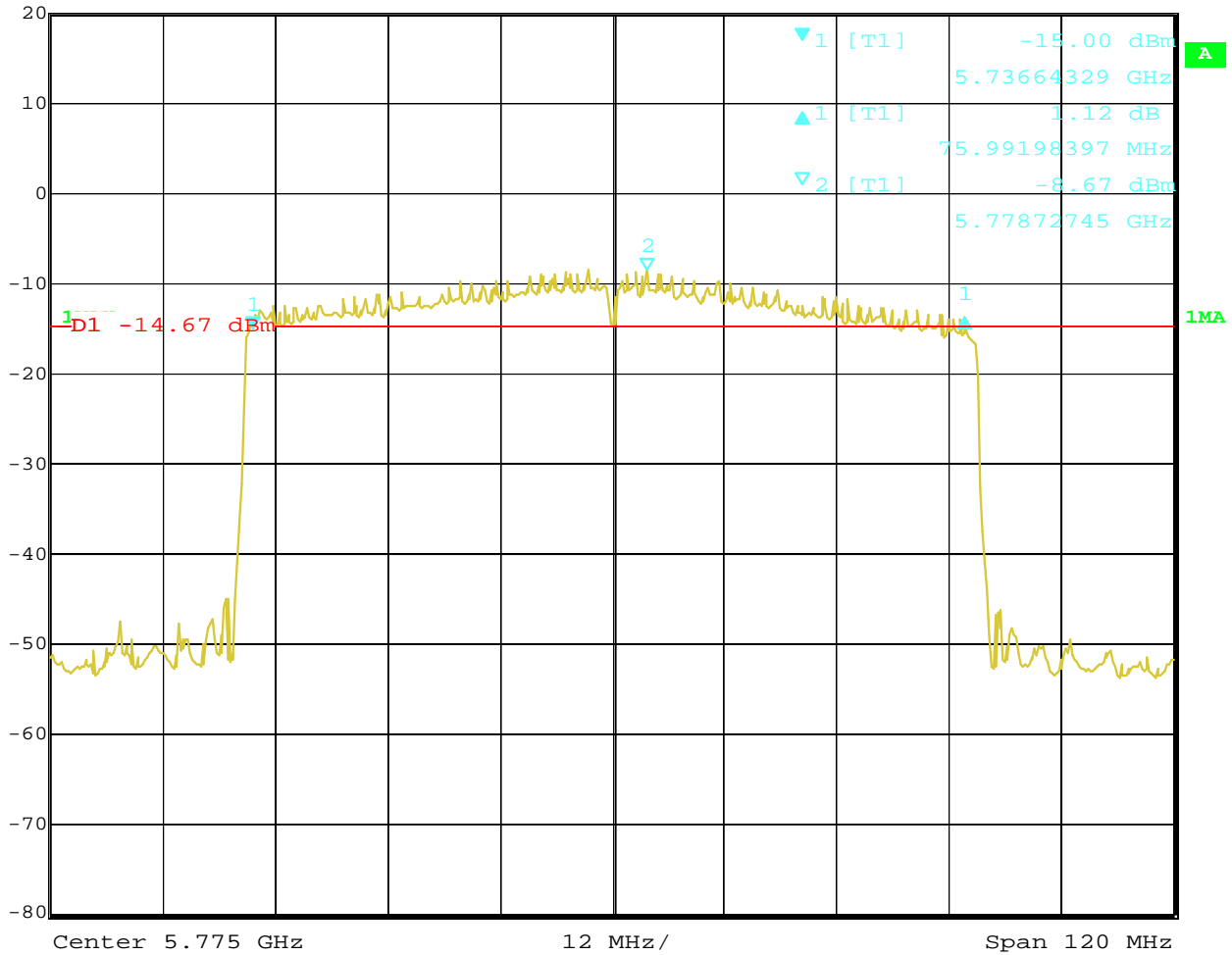
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6dB Bandwidth

Channel 155

	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	1.12 dB	VBW	300 kHz	
	20 dBm	75.99198397 MHz	SWT	30 ms	Unit dBm



Date: 23.JUN.2021 10:51:58

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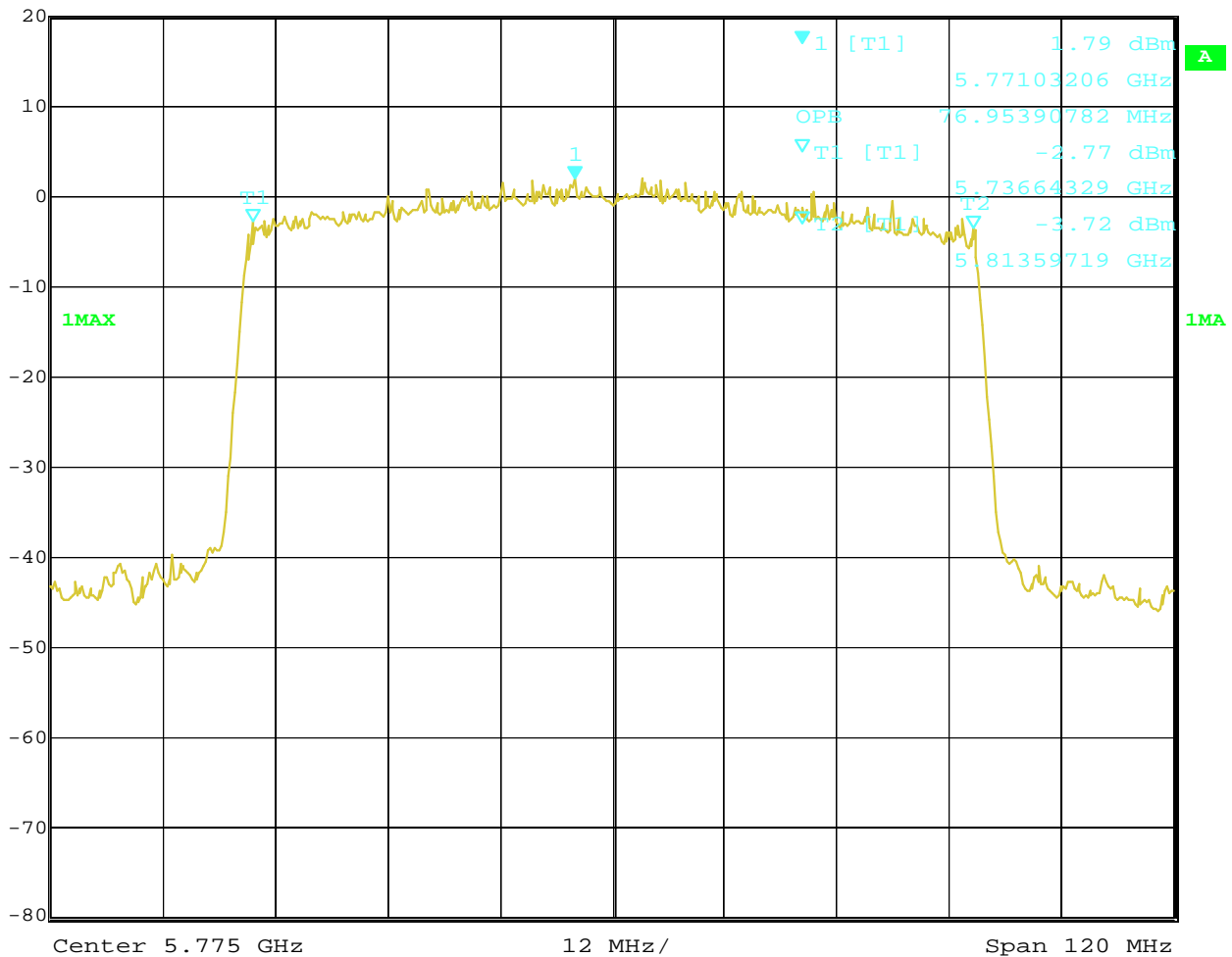


Test Configure

99% Bandwidth

Channel 155

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	1.79 dBm	VBW	3 MHz		
		5.77103206 GHz	SWT	5 ms	Unit	dBm



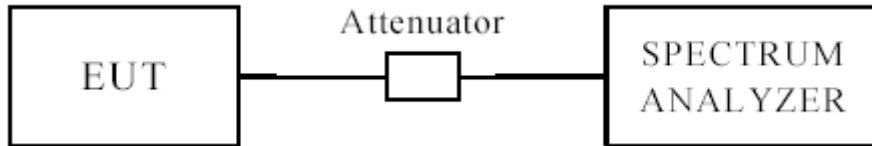
Date: 23.JUN.2021 10:53:55

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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) \cong (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		wireless router		Model		WR-AX01		
Mode		802.11a		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	6.65	4.62	6.31	4.28	9.49	27.46	Pass
40	5200	7.16	5.20	6.90	4.90	10.04	27.46	Pass
48	5240	7.92	6.19	7.68	5.86	10.81	27.46	Pass
149	5745	6.33	4.30	6.25	4.22	9.30	27.46	Pass
153	5765	8.85	7.67	7.76	5.97	11.35	27.46	Pass
161	5805	7.75	5.96	7.66	5.83	10.72	27.46	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:

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

3. The worst case was recorded

4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30 - (8.54 - 6) = 27.46 \text{ dBm}$

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

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EUT		wireless router		Model		WR-AX01		
Mode		802.11n HT20		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	6.32	4.29	6.08	4.06	9.21	27.46	Pass
40	5200	6.87	4.86	6.53	4.50	9.71	27.46	Pass
48	5240	7.59	5.74	7.30	5.37	10.46	27.46	Pass
149	5745	6.60	4.57	6.34	4.31	9.48	27.46	Pass
153	5765	6.46	4.43	6.15	4.12	9.32	27.46	Pass
161	5805	6.31	4.28	6.02	4.00	9.18	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 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 worst case was recorded
4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6)=27.46\text{dBm}$

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EUT		wireless router		Model		WR-AX01		
Mode		802.11n HT40		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
38	5190	4.52	2.83	4.27	2.67	7.41	27.46	Pass
46	5230	5.42	3.48	5.16	3.28	8.30	27.46	Pass
151	5755	5.43	3.49	5.20	3.31	8.33	27.46	Pass
159	5795	5.21	3.32	4.98	3.15	8.11	27.46	Pass

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

2. The result basic equation calculation as follow:

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

3. The worst case was recorded

4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30 - (8.54 - 6) = 27.46 \text{ dBm}$

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EUT		wireless router		Model		WR-AX01		
Mode		802.11ac VHT20		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	6.33	4.30	6.08	4.06	9.22	27.46	Pass
40	5200	6.81	4.80	6.47	4.44	9.65	27.46	Pass
48	5240	7.63	5.79	7.31	5.38	10.48	27.46	Pass
149	5745	6.52	4.49	6.20	4.17	9.37	27.46	Pass
153	5765	6.45	4.42	6.13	4.10	9.30	27.46	Pass
161	5805	6.32	4.29	6.01	3.99	9.18	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 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 worst case was recorded
4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6)=27.46\text{dBm}$

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EUT		wireless router		Model		WR-AX01		
Mode		802.11ac VHT40		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
38	5190	4.53	2.84	4.40	2.75	7.48	27.46	Pass
46	5230	5.40	3.47	5.17	3.29	8.30	27.46	Pass
151	5755	5.41	3.48	5.28	3.37	8.36	27.46	Pass
159	5795	5.22	3.33	5.04	3.19	8.14	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 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 worst case was recorded
 4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6) = 27.46\text{dBm}$

EUT		wireless router		Model		WR-AX01		
Mode		802.11ac VHT80		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
42	5210	11.25	13.34	11.19	13.15	14.23	27.46	Pass
155	5775	11.01	12.62	10.76	11.91	13.90	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 s for CH42 and CH155
 2. The result basic equation calculation as follow:
 Average Power Output = AV Power Reading + Cable loss + Attenuator
 3. The worst case was recorded
 4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6) = 27.46\text{dBm}$

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EUT		wireless router		Model		WR-AX01		
Mode		802.11ax HEW20		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	7.70	5.89	7.59	5.74	10.66	27.46	Pass
40	5200	7.37	5.46	7.22	5.27	10.31	27.46	Pass
48	5240	6.28	4.25	6.13	4.10	9.22	27.46	Pass
149	5745	6.82	4.81	6.70	4.68	9.77	27.46	Pass
153	5765	6.66	4.63	6.53	4.50	9.61	27.46	Pass
161	5805	6.40	4.37	6.31	4.28	9.37	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 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 worst case was recorded
4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6)=27.46\text{dBm}$

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EUT		wireless router		Model		WR-AX01		
Mode		802.11ax HEW40		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
38	5190	6.39	4.36	6.28	4.25	9.35	27.46	Pass
46	5230	5.25	3.35	5.15	3.27	8.21	27.46	Pass
151	5755	4.44	2.78	4.35	2.72	7.41	27.46	Pass
159	5795	4.14	2.59	4.06	2.55	7.11	27.46	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 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 worst case was recorded
 4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6)=27.46\text{dBm}$

EUT		wireless router		Model		WR-AX01		
Mode		802.11ax VHEW80		Test Voltage		120V~		
Temperature		24 deg. C,		Humidity		56% RH		
Channel	Frequency (MHz)	Chain 2 Power		Chain 3 Power		Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
42	5210	11.68	14.72	11.58	14.39	14.64	27.46	Pass
155	5775	3.55	2.26	3.43	2.20	6.50	27.46	Pass

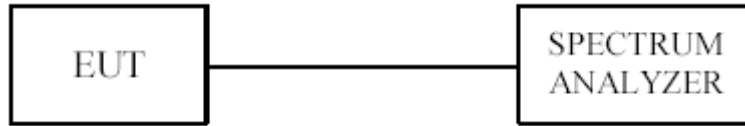
- Note: 1. At final test to get the worst-case emission at mcs0 s for CH42 and CH155
 2. The result basic equation calculation as follow:
 Average Power Output = AV Power Reading + Cable loss + Attenuator
 3. The worst case was recorded
 4. The directional gain of the used dipole antenna is greater than 6 dBi, according to FCC part 15.203, the power limit is $30-(8.54-6)=27.46\text{dBm}$

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9. 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 or 500kHz
3. Set the VBW = 3MHz or 2MHz
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	wireless router		Model	WR-AX01		
Mode	802.11a 6Mbps		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm)	Pass/ Fail
36	5180	-1.75	3.01	1.26	17	Pass
40	5200	-2.71	3.01	0.30	17	Pass
48	5240	-3.69	3.01	-0.68	17	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm)	Pass/ Fail
149	5745	-3.72	3.01	-0.71	30	Pass
153	5765	-3.76	3.01	-0.75	30	Pass
161	5805	-3.89	3.01	-0.88	30	Pass

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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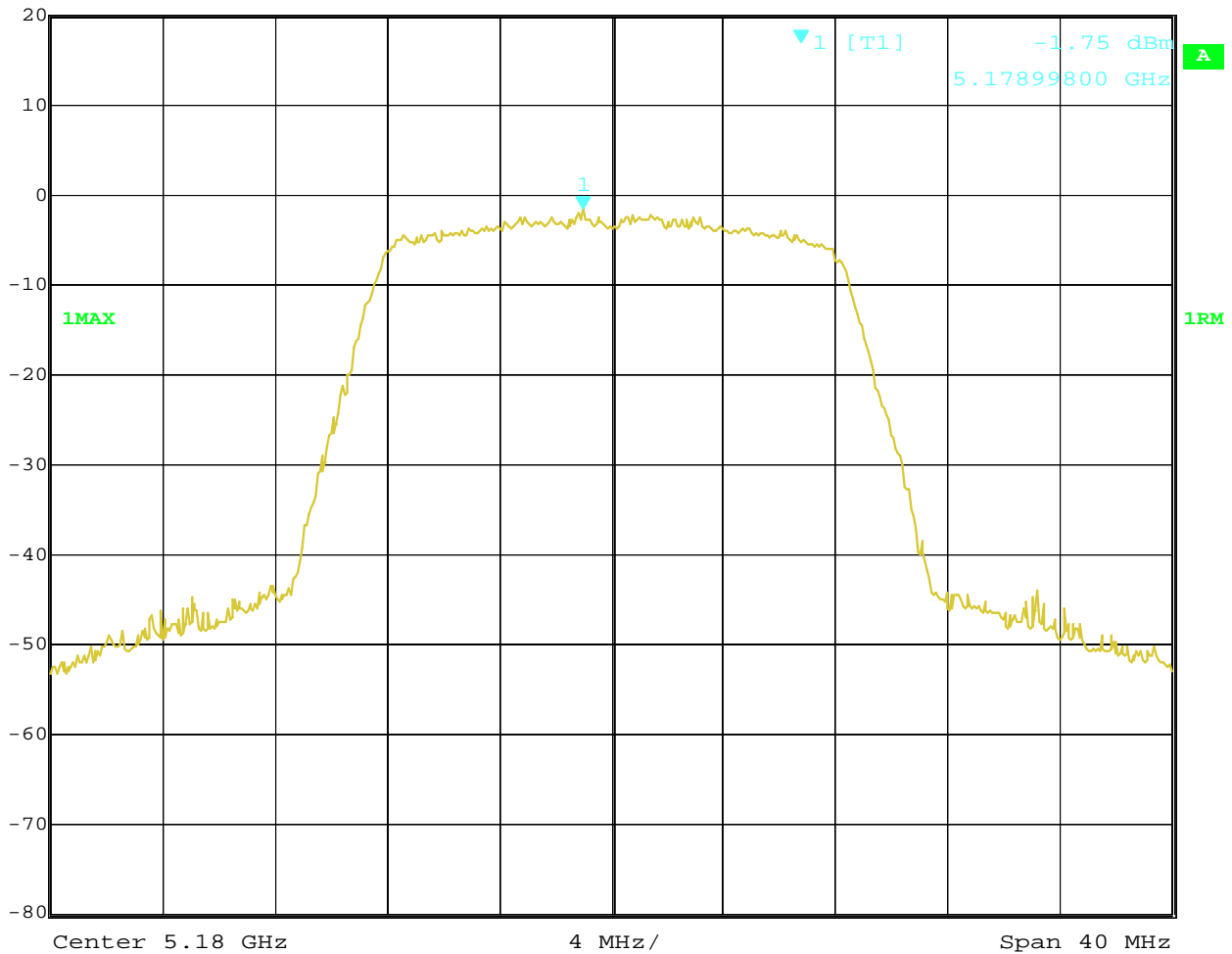


9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



Ref Lvl	20 dBm	Marker 1 [T1]	5.17899800 GHz	RBW	1 MHz	RF Att	30 dB
			-1.75 dBm	VBW	3 MHz		
				SWT	5 ms	Unit	dBm

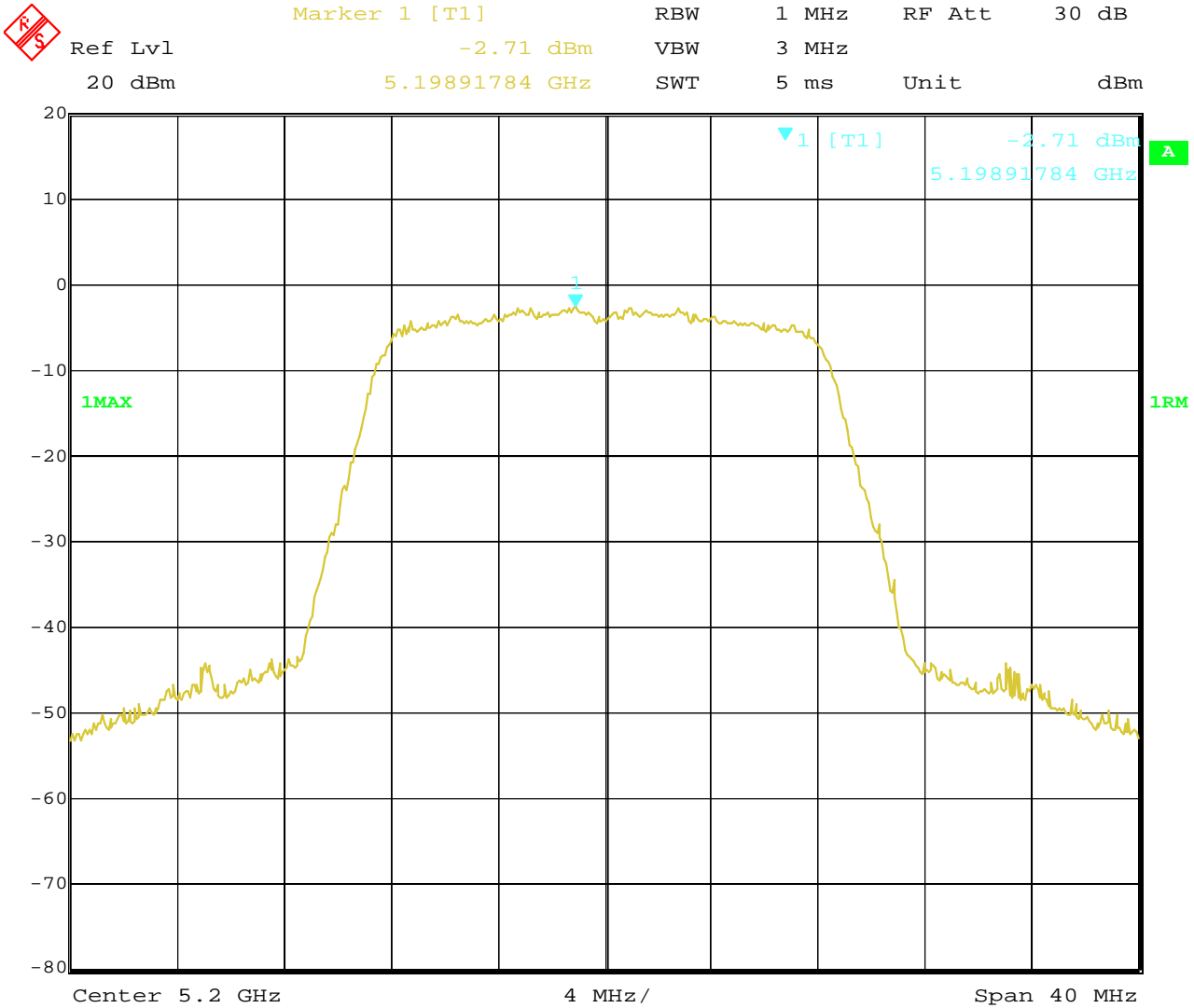


Date: 29.MAY.2021 10:21:59

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2.802.11a at 6Mbps of CH40

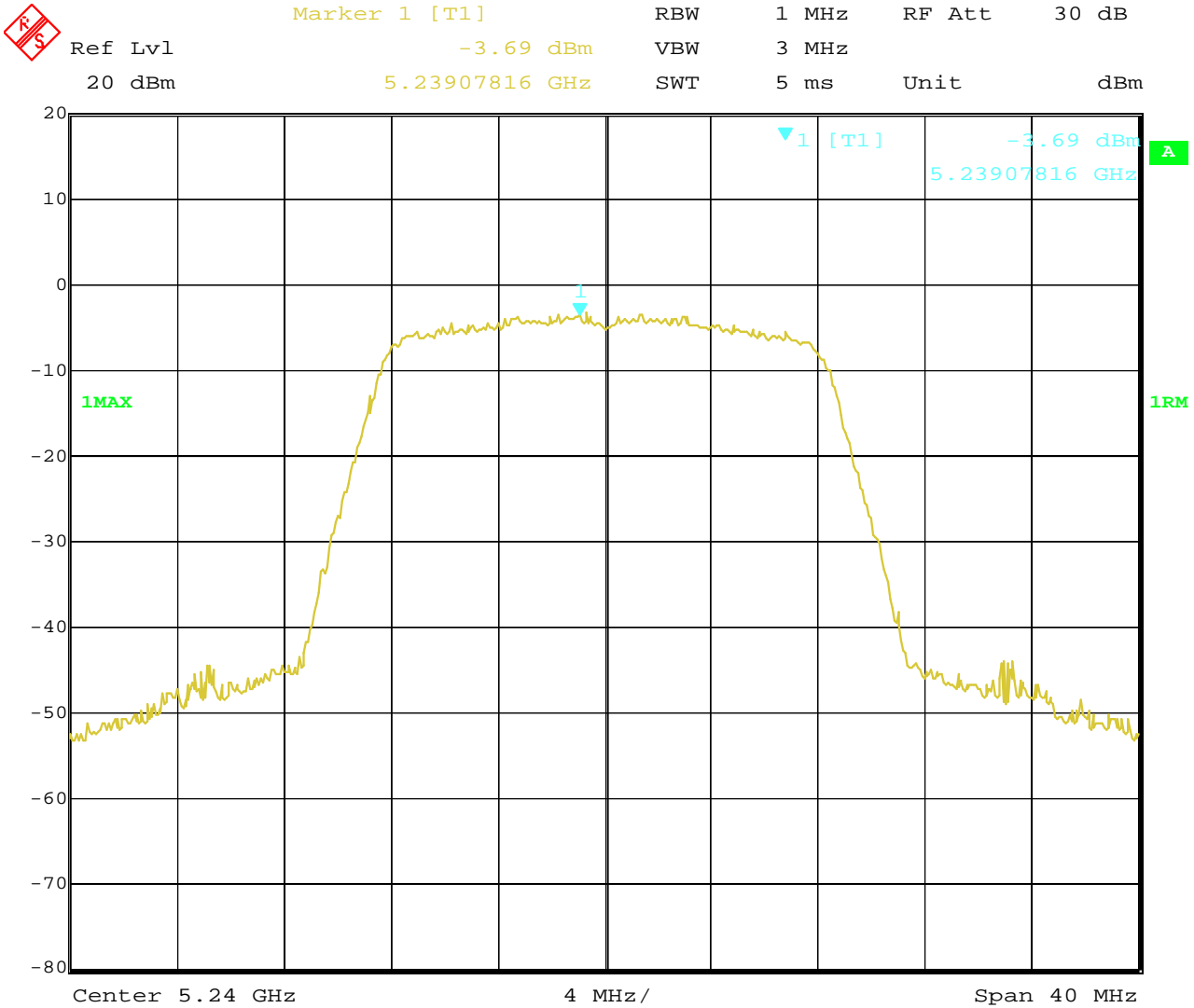


Date: 29.MAY.2021 10:23:56

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3.802.11a at 6Mbps of CH48

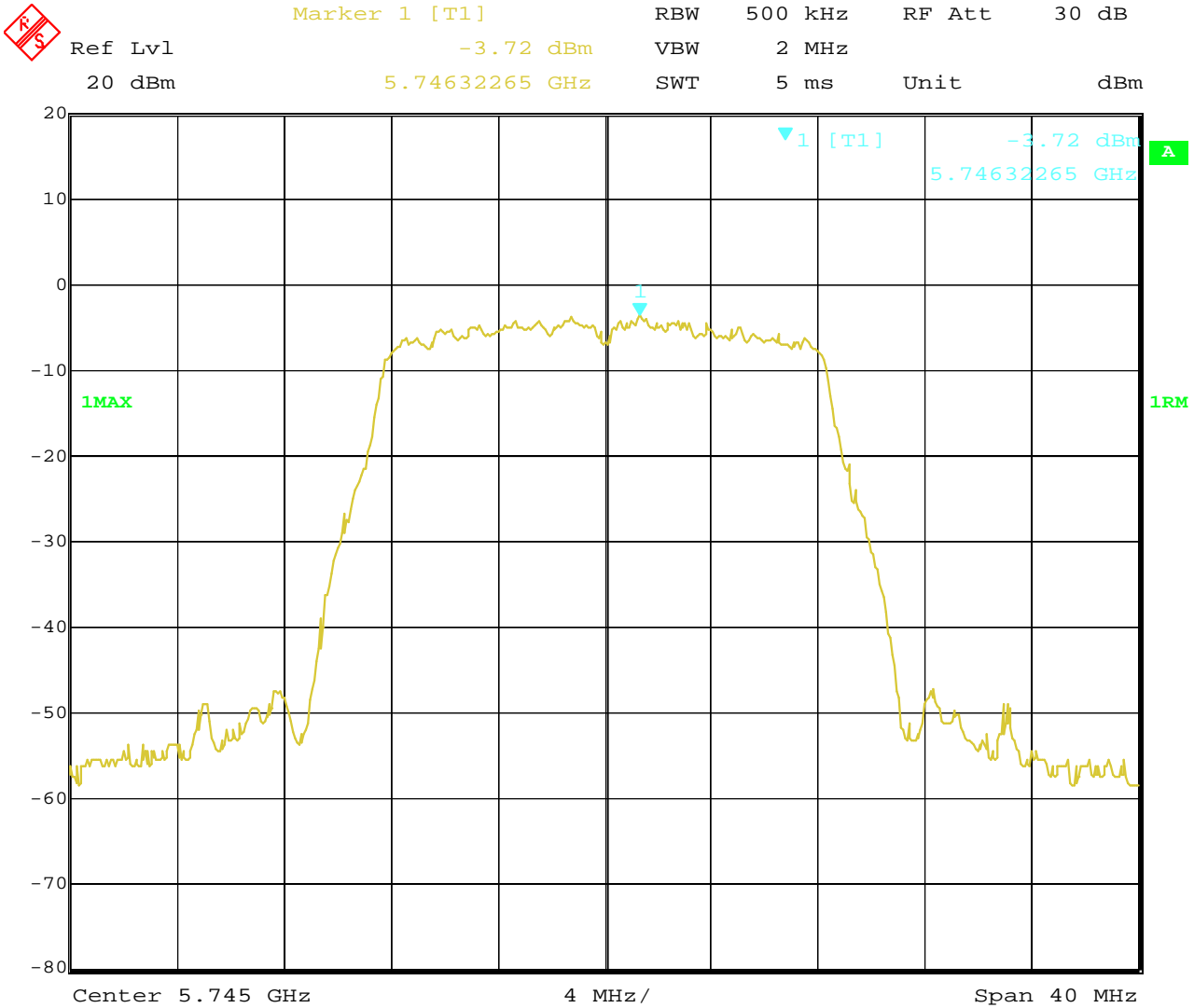


Date: 29.MAY.2021 10:24:29

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4.802.11a at 6Mbps of CH149

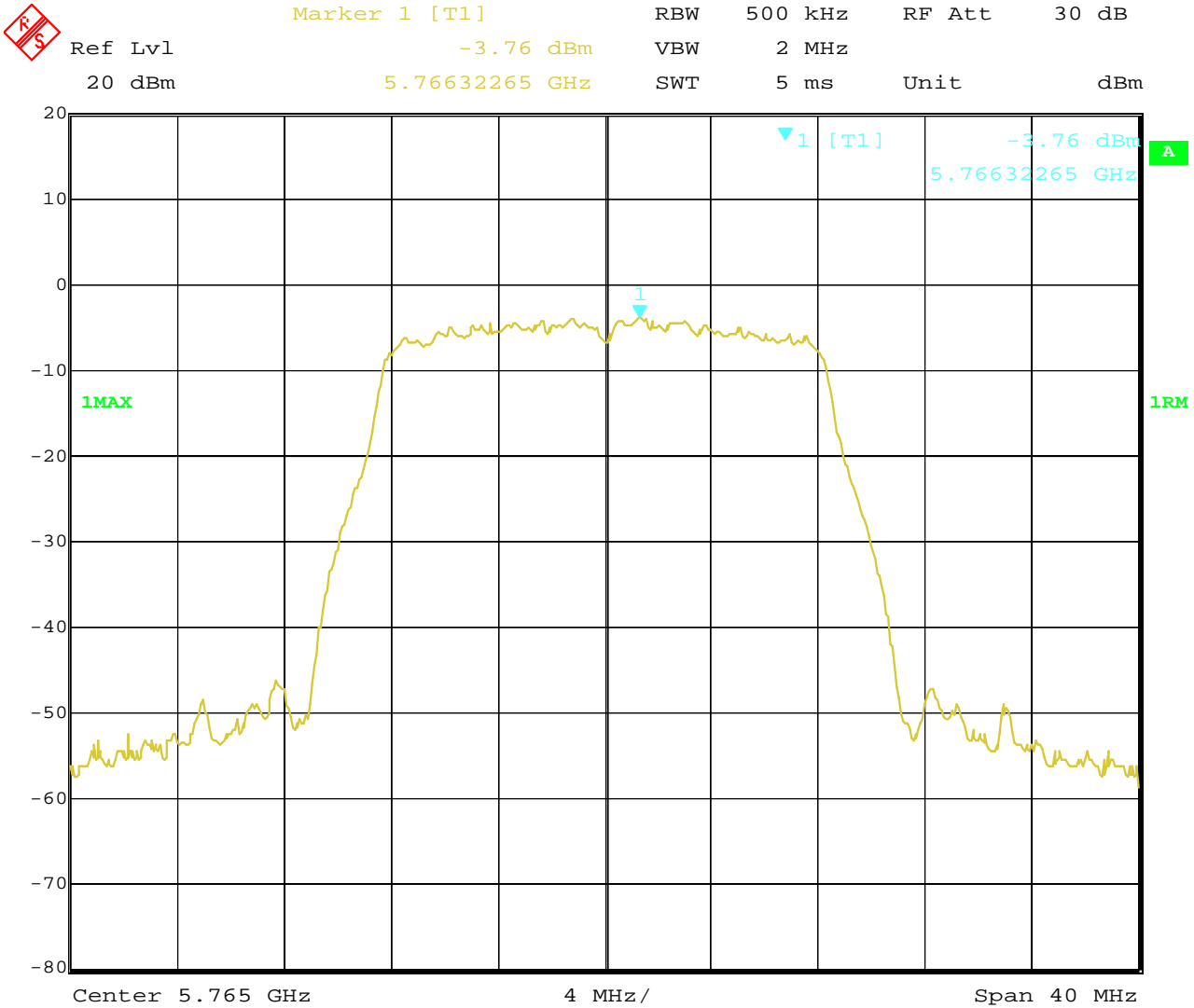


Date: 29.MAY.2021 18:22:52

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5.802.11a at 6Mbps of CH153

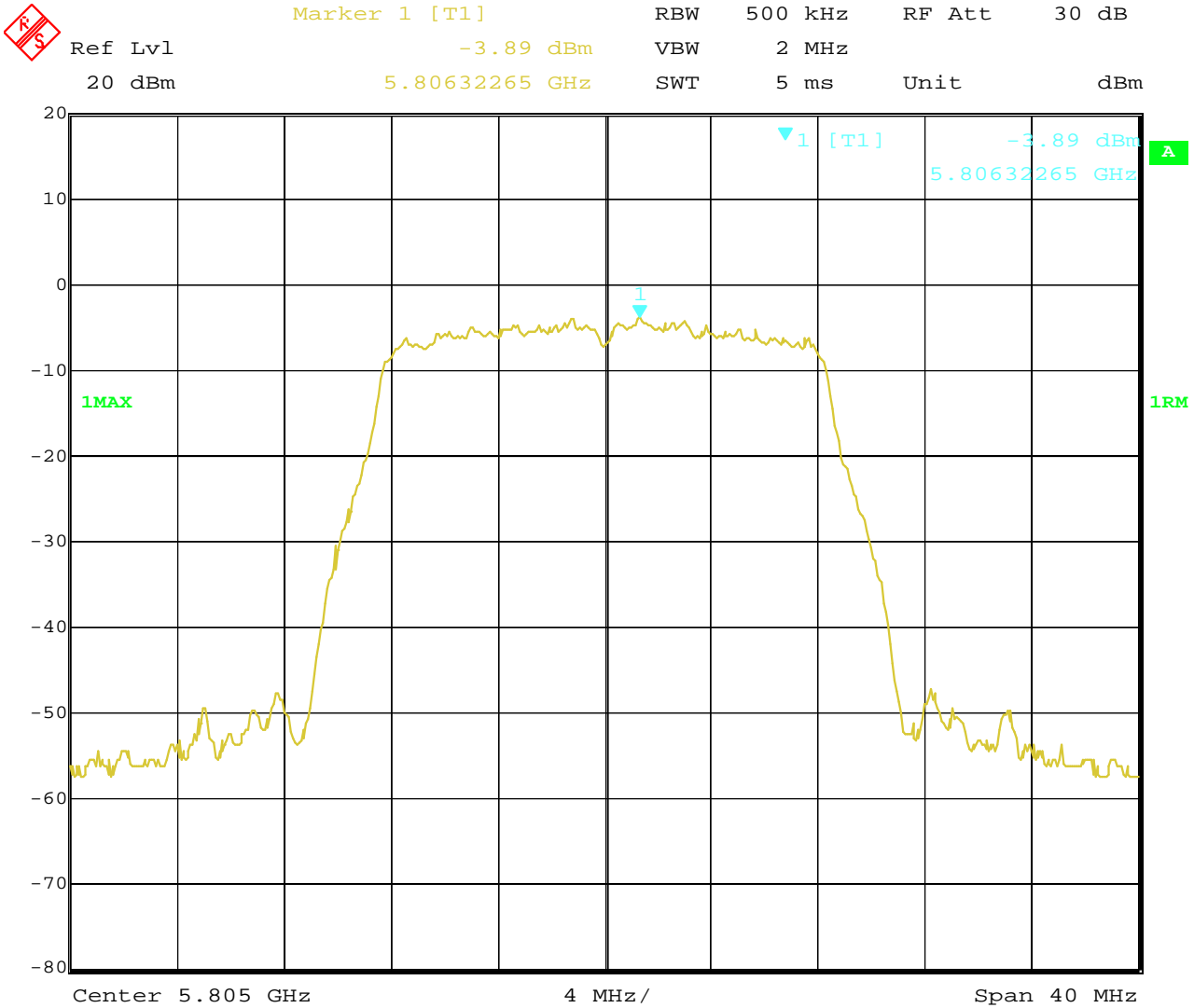


Date: 29.MAY.2021 18:28:36

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6.802.11a at 6Mbps of CH161



Date: 29.MAY.2021 18:32:12

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EUT		wireless router		Model		WR-AX01	
Mode		802.11n HT20 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-1.95	3.01	1.06	17	Pass	
40	5200	-1.98	3.01	1.03	17	Pass	
48	5240	-3.50	3.01	-0.49	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-3.05	3.01	-0.04	30	Pass	
153	5765	-3.16	3.01	-0.15	30	Pass	
161	5805	-3.12	3.01	-0.11	30	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

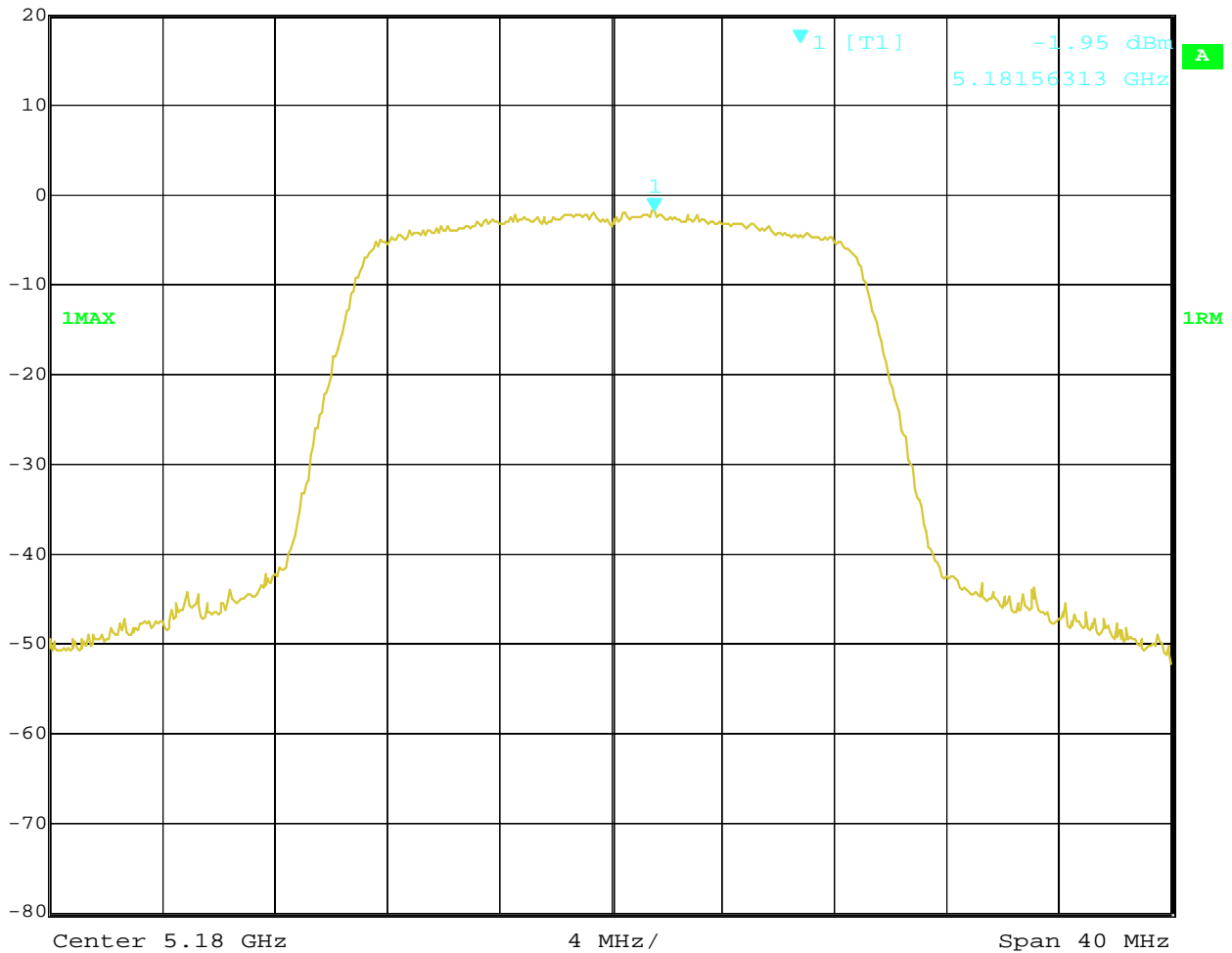
The report refers only to the sample tested and does not apply to the bulk.
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 In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Plots

1.802.11n at mcs0 of CH36

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-1.95 dBm	VBW	3 MHz	
	20 dBm	5.18156313 GHz	SWT	5 ms	Unit dBm



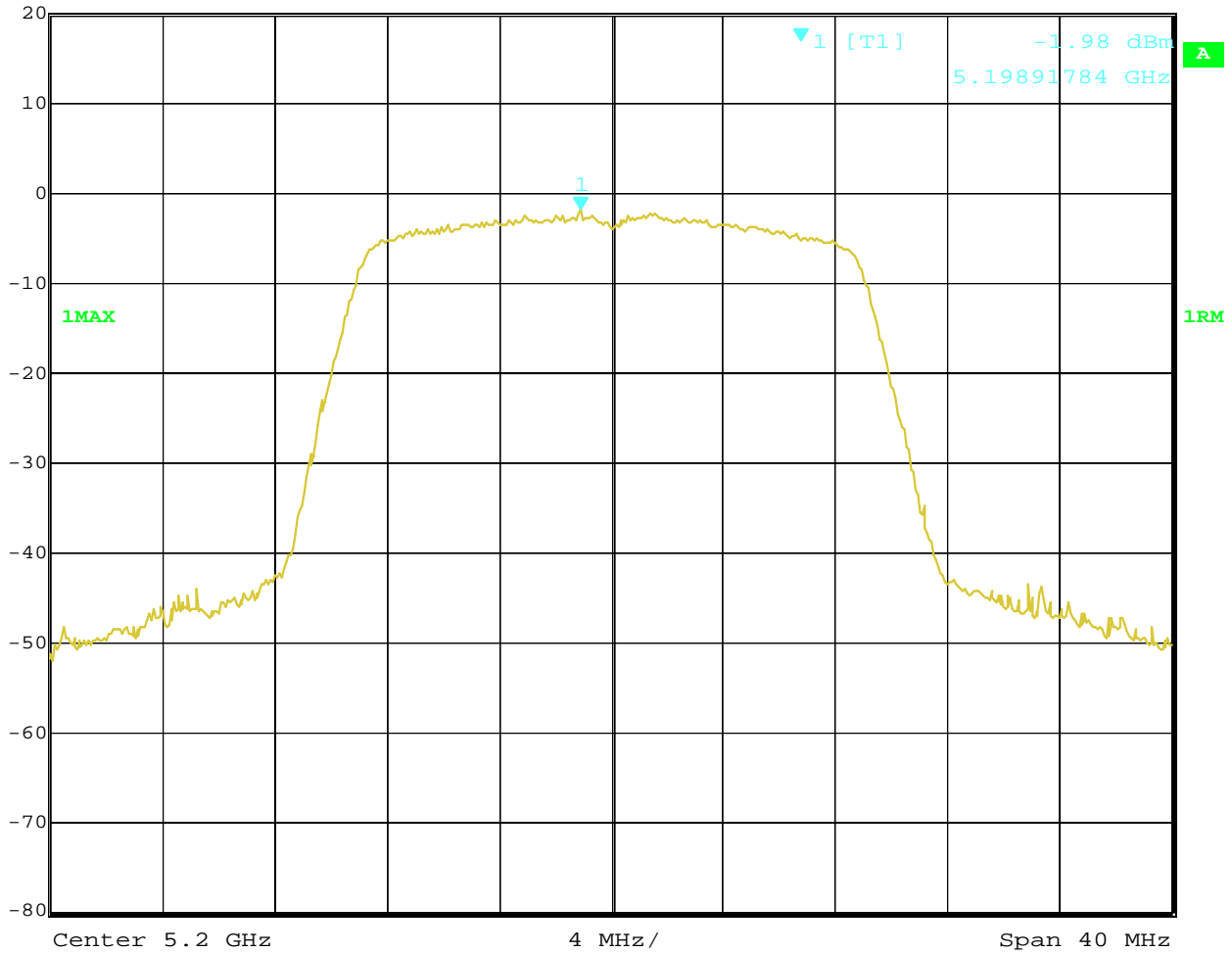
Date: 29.MAY.2021 10:22:28

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2.802.11n at mcs0 of CH40

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-1.98 dBm	VBW	3 MHz	
	20 dBm	5.19891784 GHz	SWT	5 ms	Unit dBm



Date: 29.MAY.2021 10:23:29

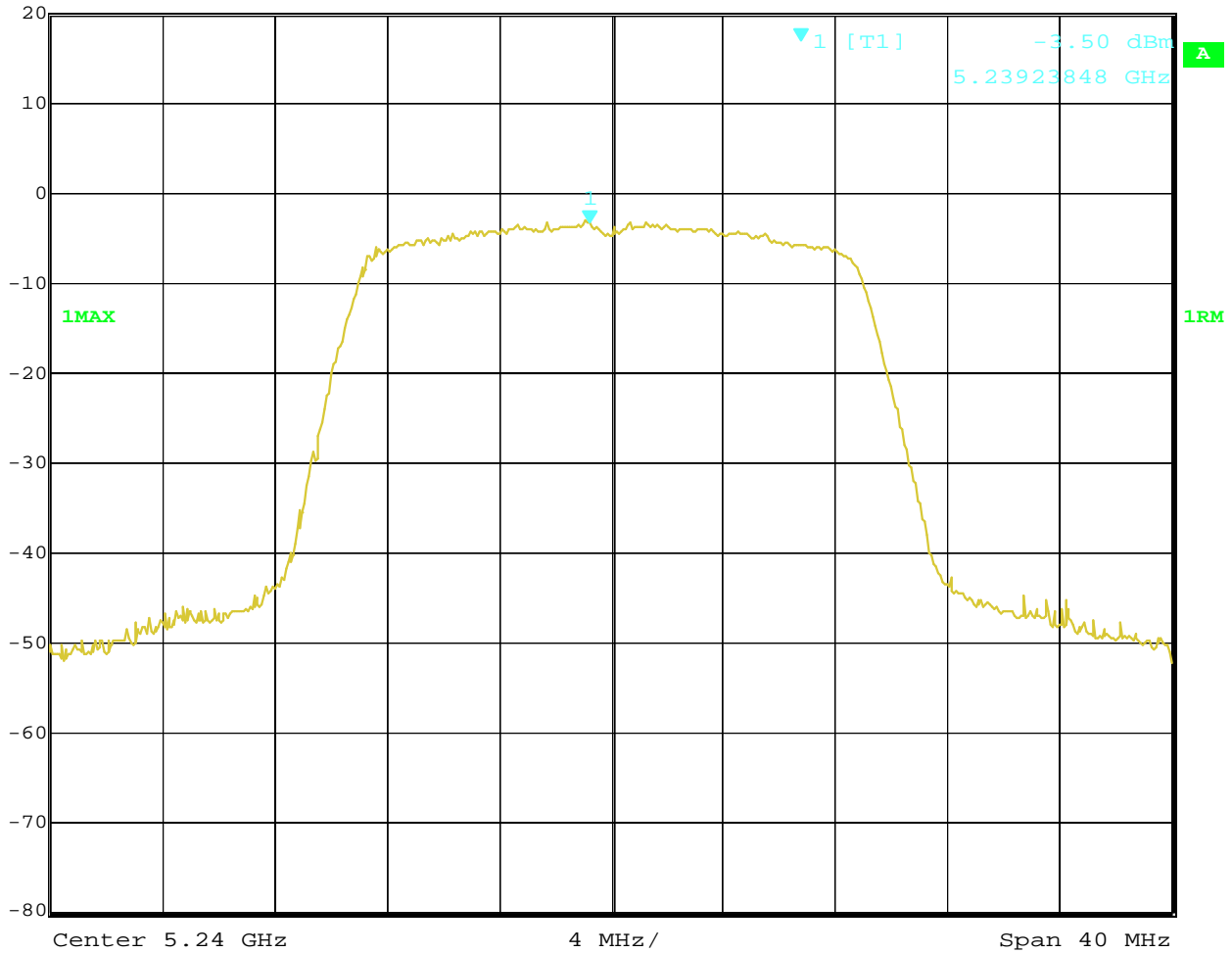
The report refers only to the sample tested and does not apply to the bulk.
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3.802.11n at mcs0 of CH48



Ref Lvl	20 dBm	Marker 1 [T1]	-3.50 dBm	5.23923848 GHz	RBW	1 MHz	RF Att	30 dB	VBW	3 MHz	SWT	5 ms	Unit	dBm
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Date: 29.MAY.2021 10:24:52

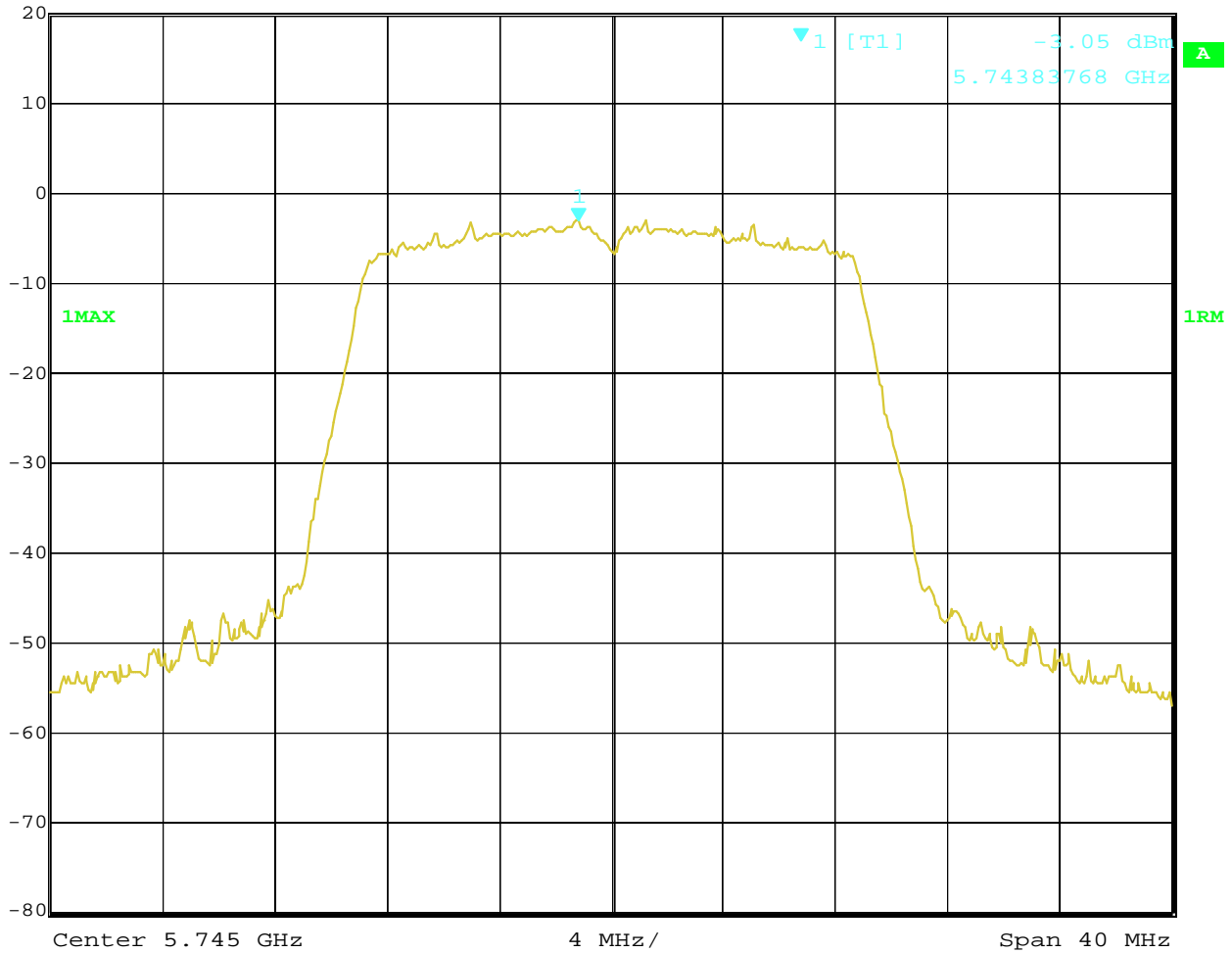
The report refers only to the sample tested and does not apply to the bulk.
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4.802.11n at mcs0 of CH149



Ref Lvl	20 dBm	Marker 1 [T1]	-3.05 dBm	5.74383768 GHz	RBW	500 kHz	RF Att	30 dB
					VBW	2 MHz	Unit	dBm
					SWT	5 ms		



Date: 29.MAY.2021 18:24:05

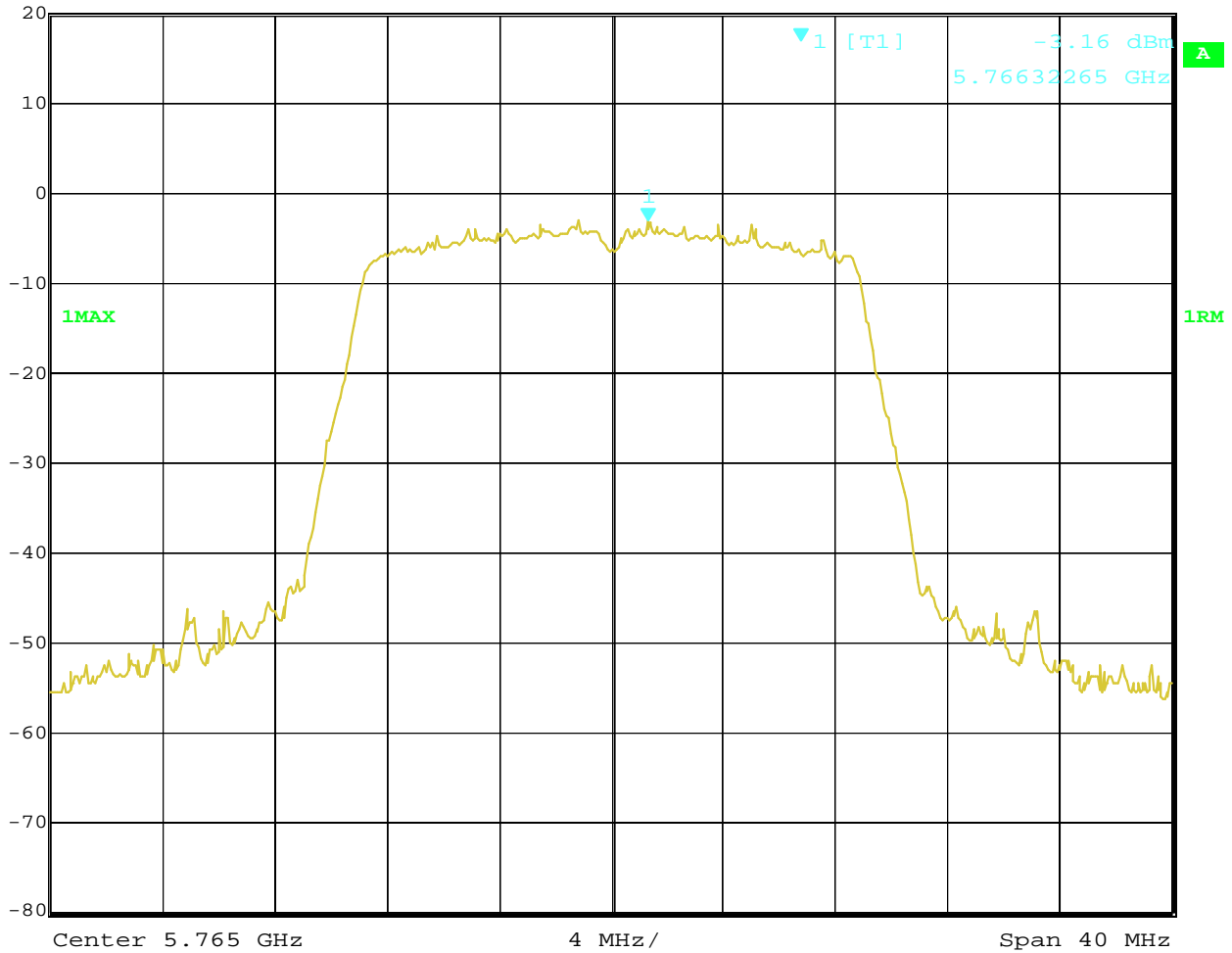
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5.802.11n at mcs0 of CH153



Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
20 dBm	-3.16 dBm	VBW	2 MHz		
	5.76632265 GHz	SWT	5 ms	Unit	dBm



Date: 29.MAY.2021 18:27:15

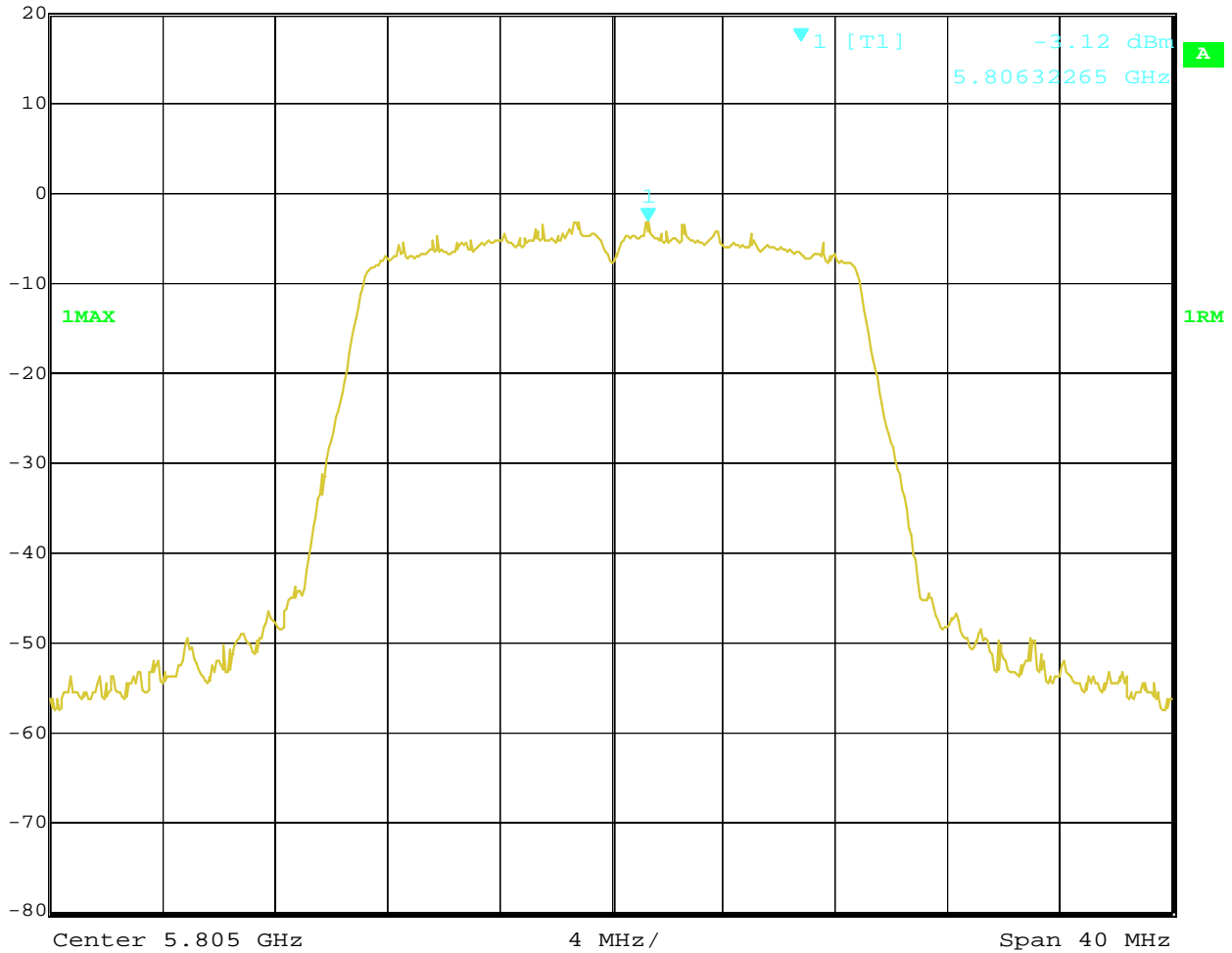
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6.802.11n at mcs0 of CH161



Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
20 dBm	-3.12 dBm	VBW	2 MHz		
	5.80632265 GHz	SWT	5 ms	Unit	dBm



Date: 29.MAY.2021 18:31:21

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EUT		wireless router		Model		WR-AX01	
Mode		802.11n HT40 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-4.65	3.01	-1.64	17	Pass	
46	5230	-5.82	3.01	-2.81	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-5.43	3.01	-2.42	30	Pass	
159	5795	-5.44	3.01	-2.43	30	Pass	

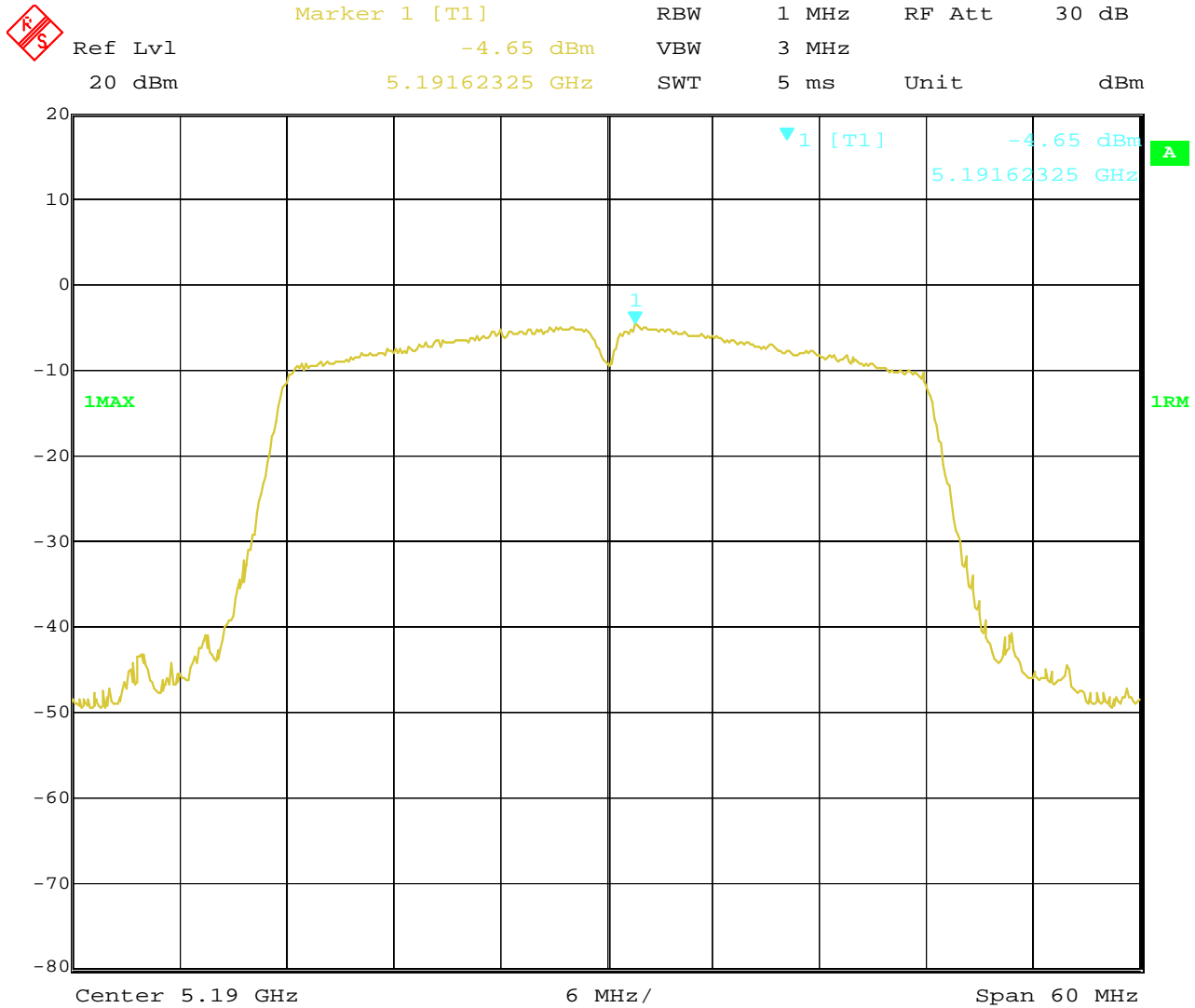
Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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



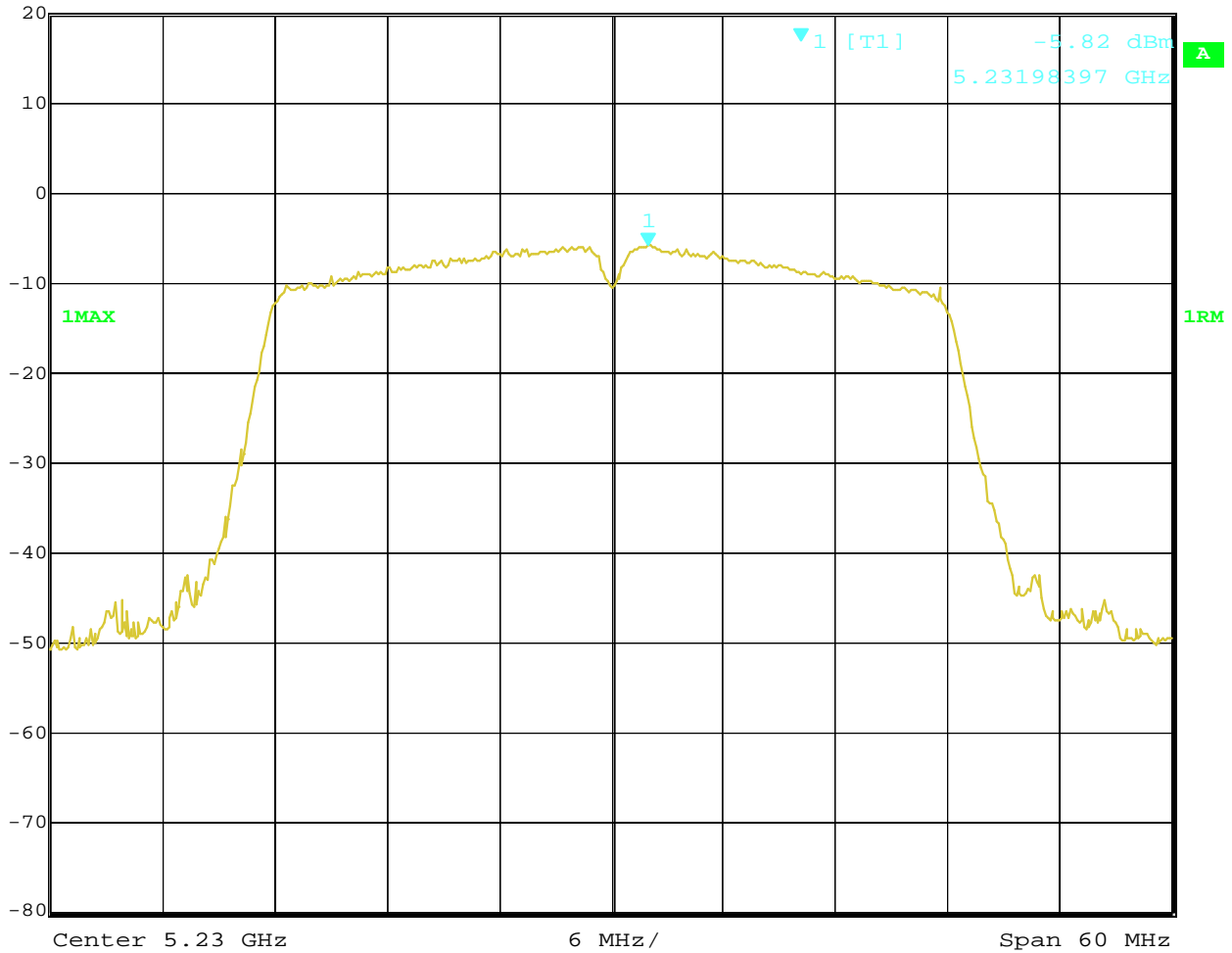
Date: 29.MAY.2021 10:20:22

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2.802.11n HT40 at mcs0 of CH46

	Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	20 dBm	-5.82 dBm	VBW	3 MHz		
		5.23198397 GHz	SWT	5 ms	Unit	dBm



Date: 29.MAY.2021 10:20:53

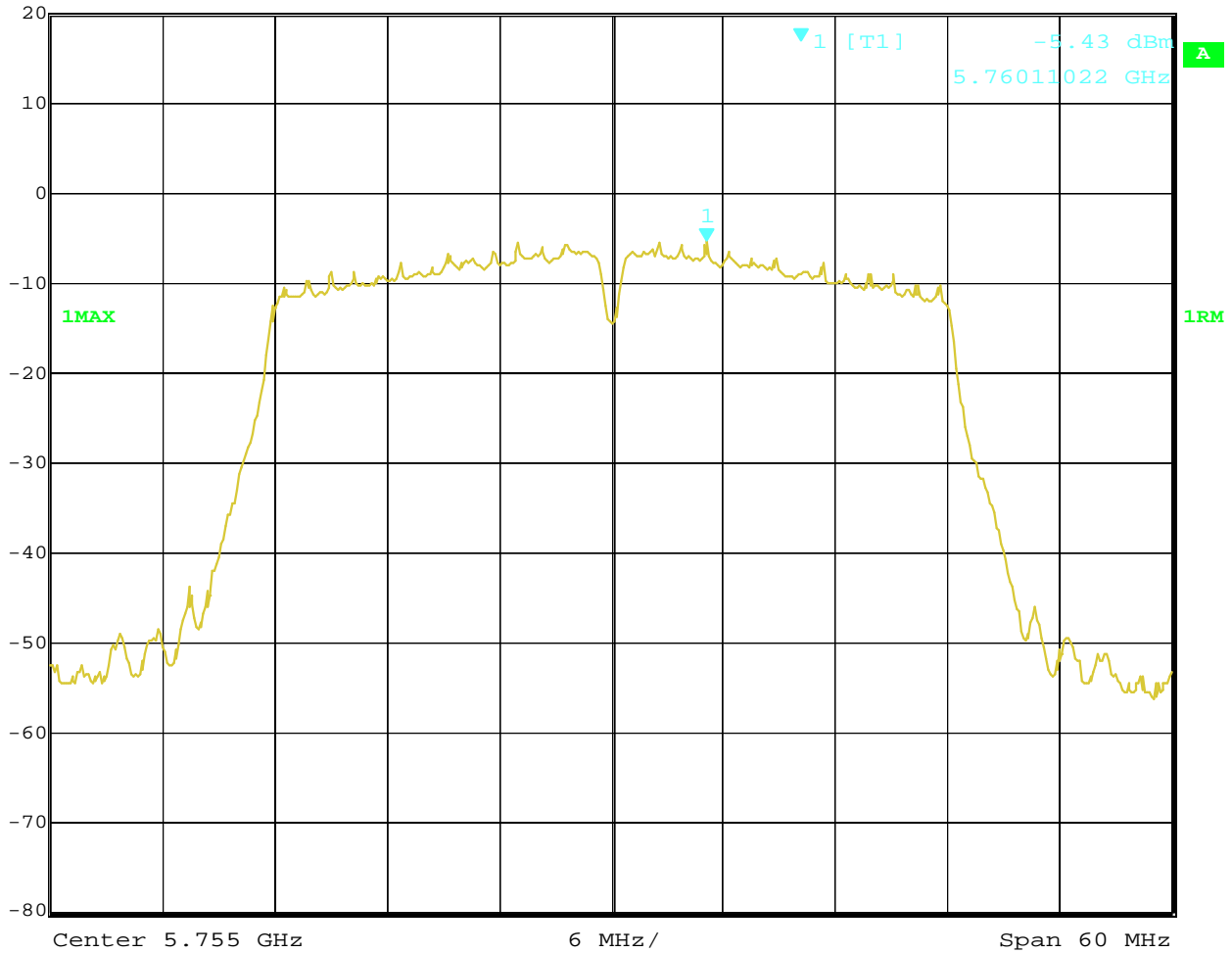
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3.802.11n HT40 at mcs0 of CH151



Ref Lvl	20 dBm	Marker 1 [T1]	-5.43 dBm	5.76011022 GHz	RBW	500 kHz	RF Att	30 dB
					VBW	2 MHz	Unit	dBm
					SWT	5 ms		



Date: 29.MAY.2021 18:42:48

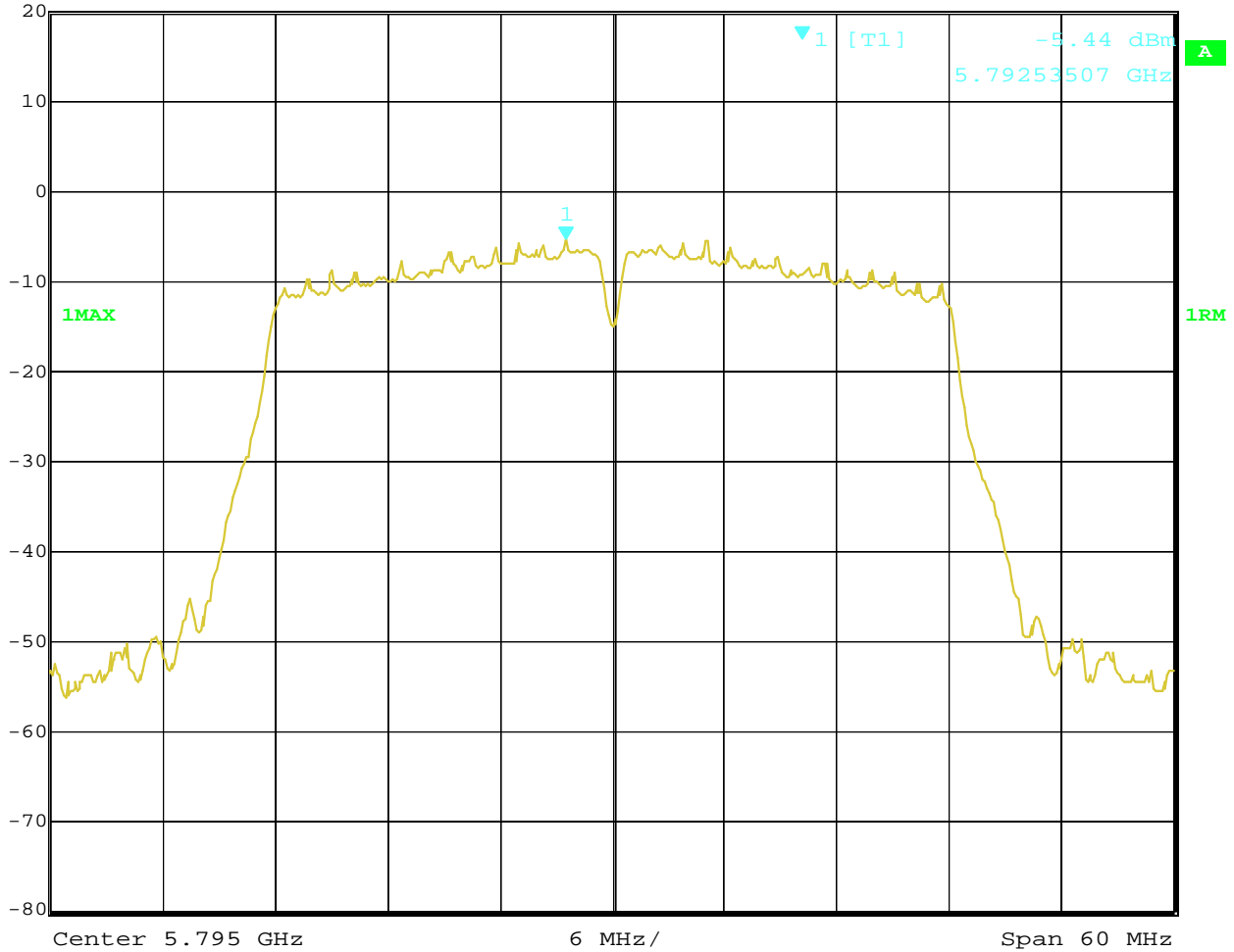
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4.802.11n HT40 at mcs0 of CH159



Ref Lvl	20 dBm	Marker 1 [T1]	-5.44 dBm	5.79253507 GHz	RBW	500 kHz	RF Att	30 dB	VBW	2 MHz	SWT	5 ms	Unit	dBm
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Date: 29.MAY.2021 18:41:20

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ac VHT20		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-1.93	3.01	1.08	17	Pass	
40	5200	-2.63	3.01	0.38	17	Pass	
48	5240	-3.12	3.01	-0.11	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-2.64	3.01	0.37	30	Pass	
153	5765	-2.60	3.01	0.41	30	Pass	
161	5805	-2.99	3.01	0.02	30	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

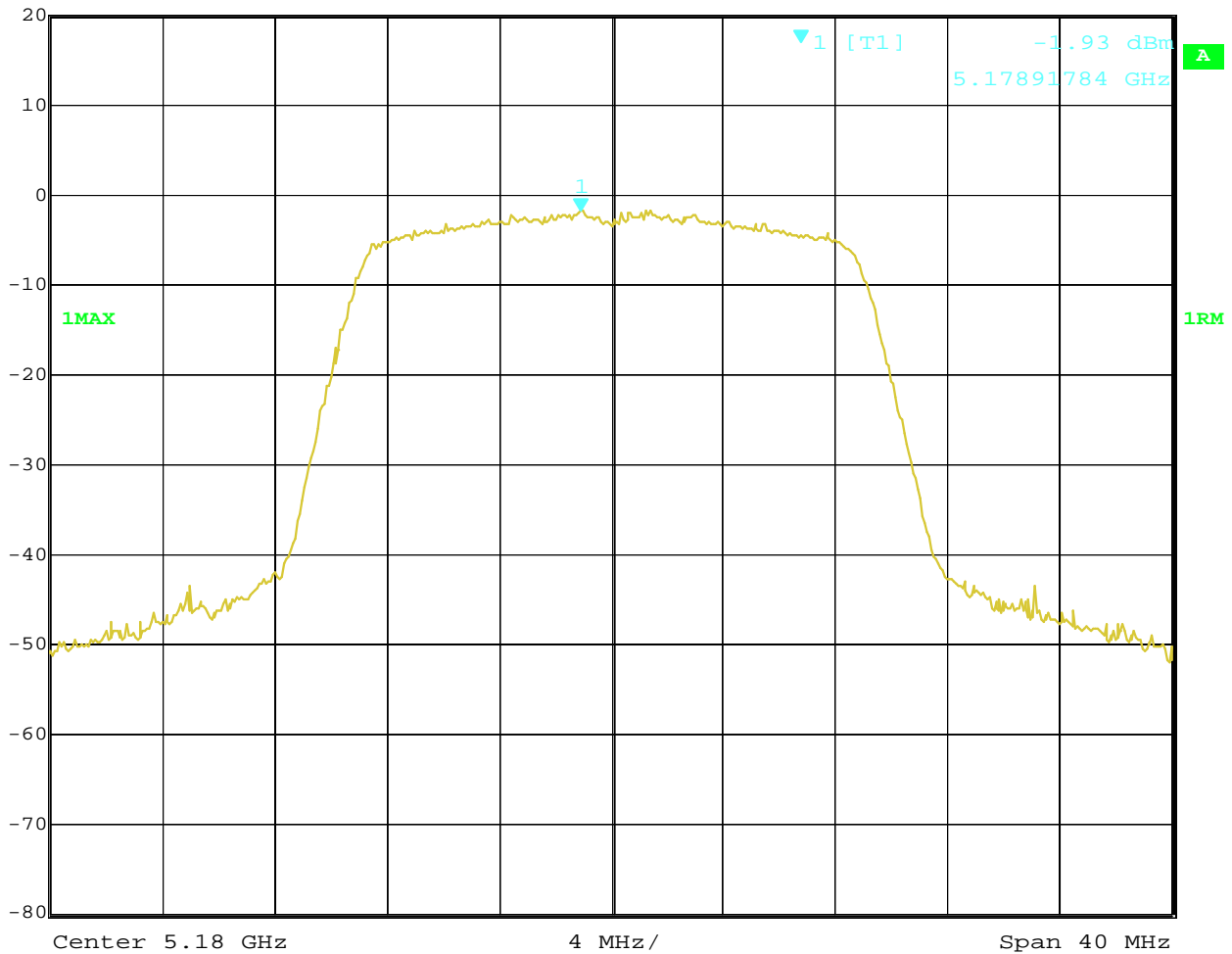
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Test Plots

1.802.11ac at mcs0 of CH36

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-1.93 dBm	VBW	3 MHz	
	20 dBm	5.17891784 GHz	SWT	5 ms	Unit dBm



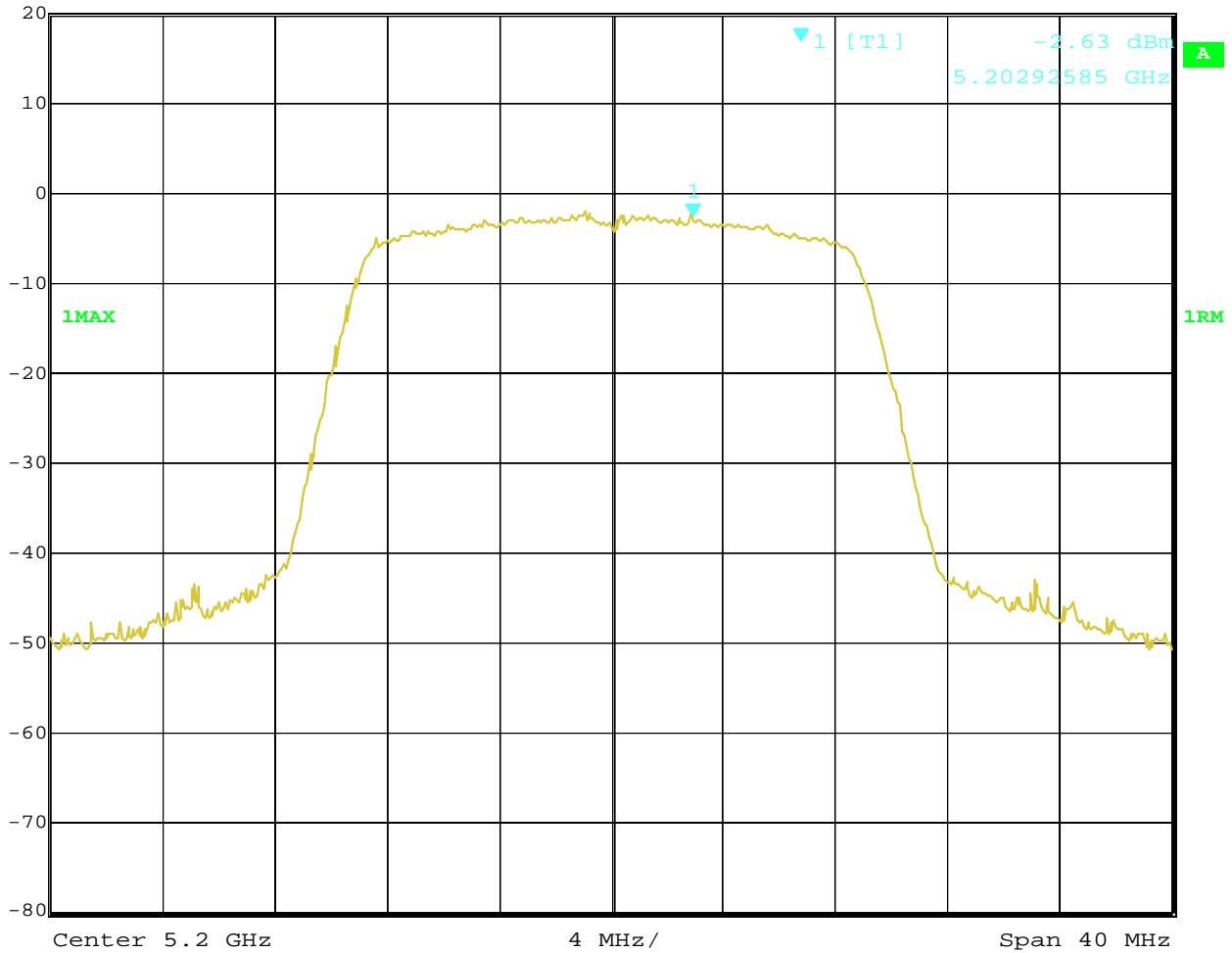
Date: 29.MAY.2021 10:22:42

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2.802.11ac at mcs0 of CH40

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-2.63 dBm	VBW	3 MHz	
	20 dBm	5.20292585 GHz	SWT	5 ms	Unit dBm



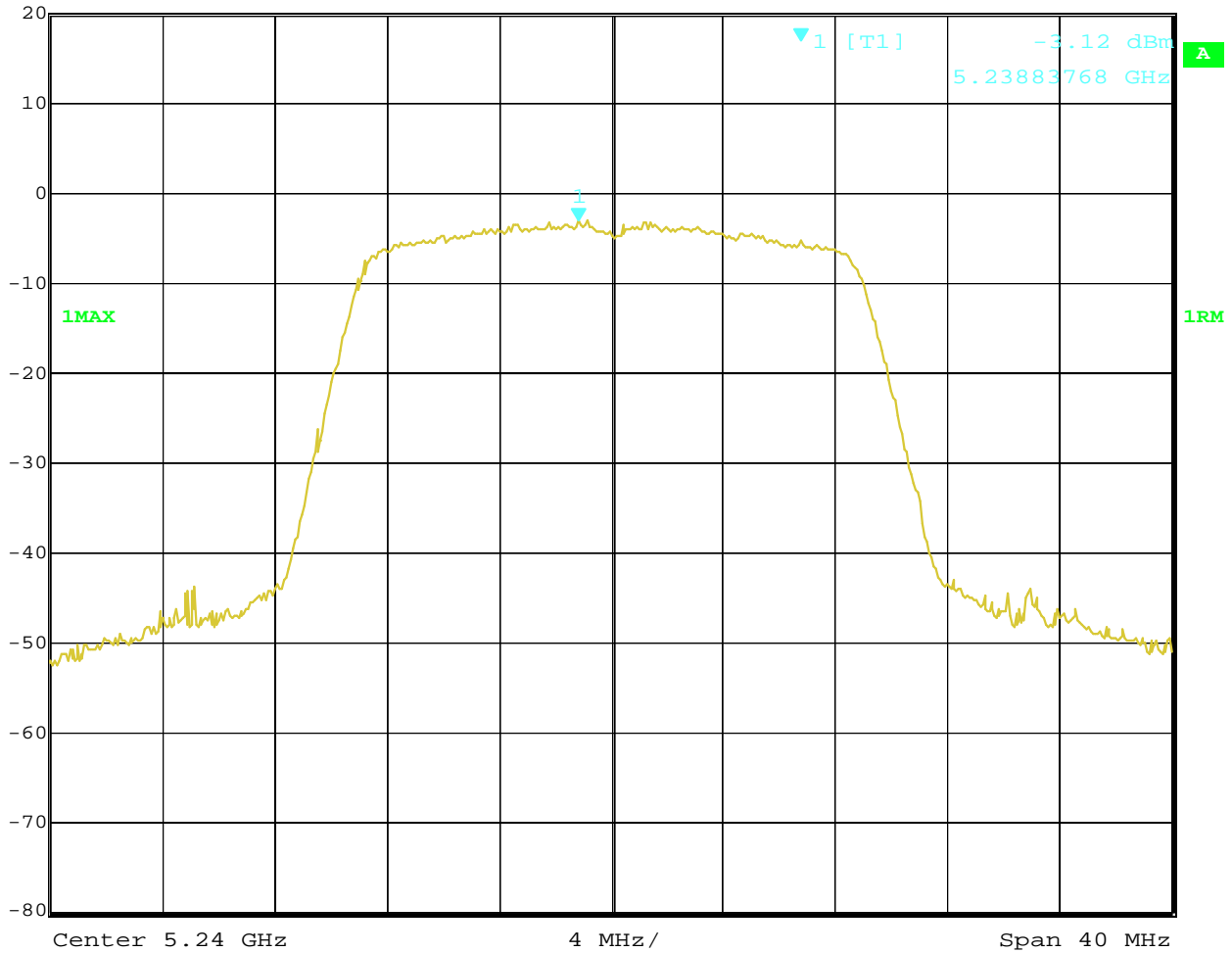
Date: 29.MAY.2021 10:23:13

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3.802.11ac at mcs0 of CH48

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-3.12 dBm	VBW	3 MHz	
	20 dBm	5.23883768 GHz	SWT	5 ms	Unit dBm



Date: 29.MAY.2021 10:25:05

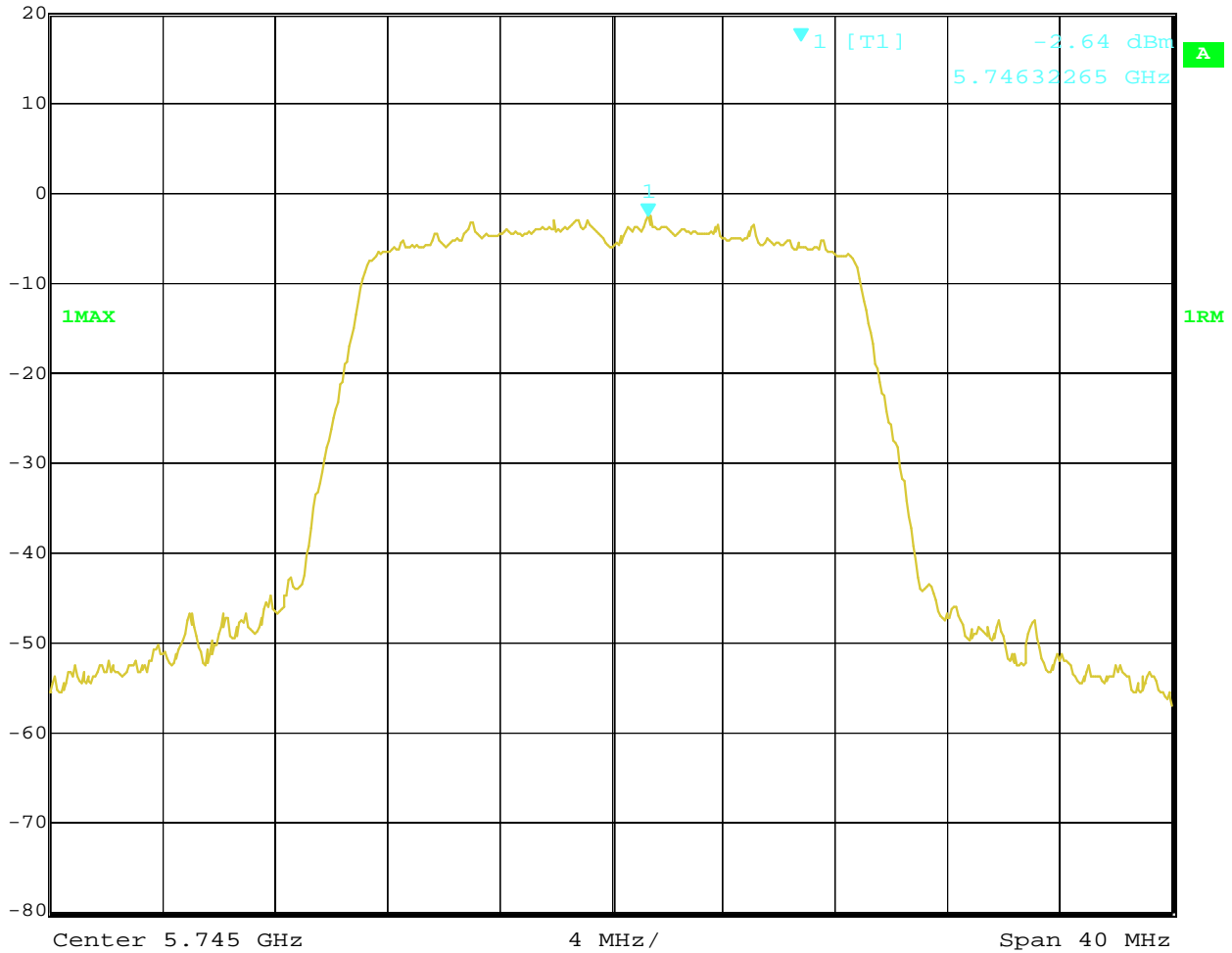
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4.802.11ac at mcs0 of CH149



Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
20 dBm	-2.64 dBm	VBW	2 MHz		
	5.74632265 GHz	SWT	5 ms	Unit	dBm



Date: 29.MAY.2021 18:25:22

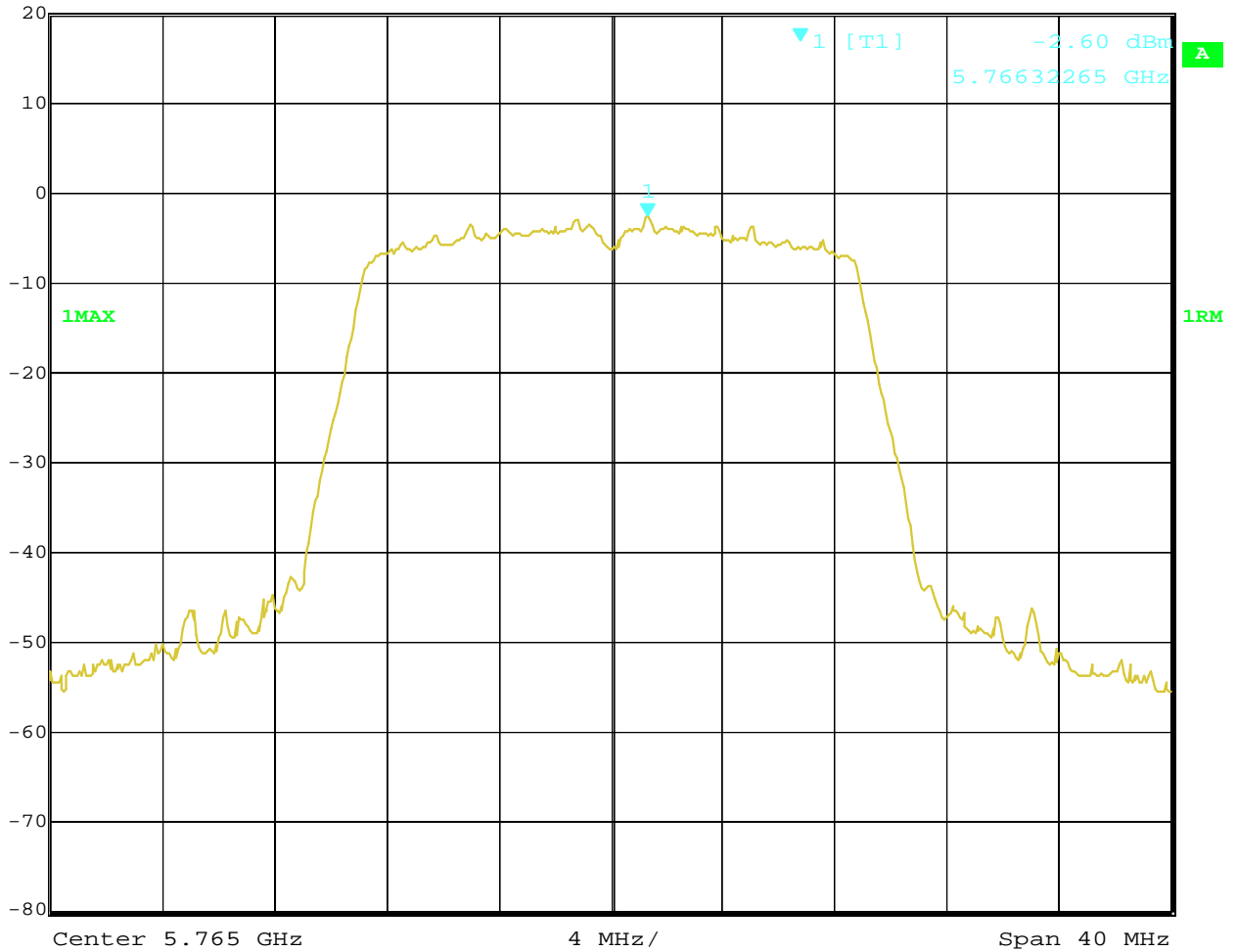
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5.802.11ac at mcs0 of CH153



Ref Lvl	20 dBm	Marker 1 [T1]	-2.60 dBm	5.76632265 GHz	RBW	500 kHz	RF Att	30 dB
					VBW	2 MHz	Unit	dBm
					SWT	5 ms		



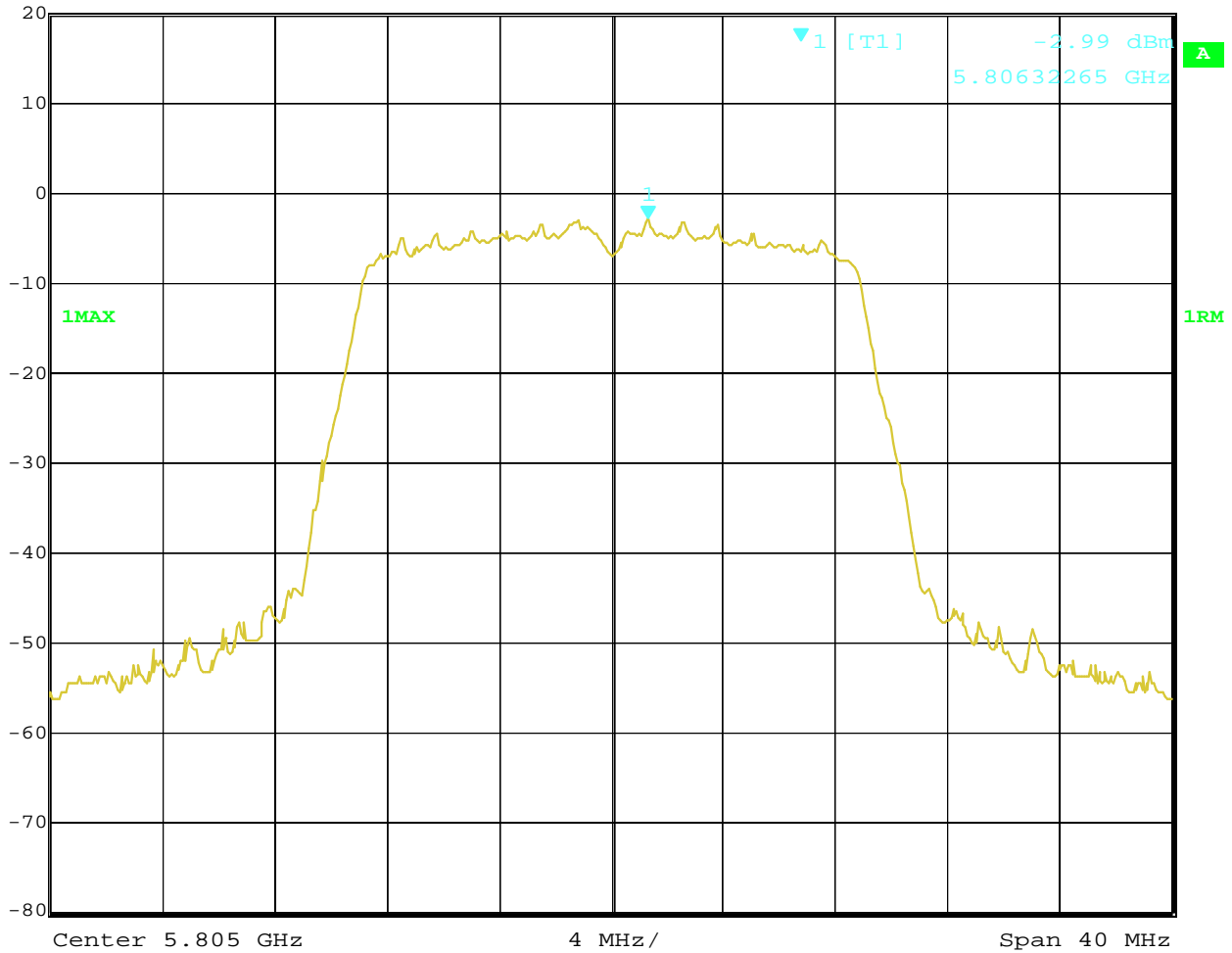
Date: 29.MAY.2021 18:26:54

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6.802.11ac at mcs0 of CH161

	Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	20 dBm	-2.99 dBm	VBW	2 MHz		
		5.80632265 GHz	SWT	5 ms	Unit	dBm



Date: 29.MAY.2021 18:30:52

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ac VHT40		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-4.54	3.01	-1.53	17	Pass	
46	5230	-5.65	3.01	-2.64	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-5.48	3.01	-2.47	30	Pass	
159	5795	-5.70	3.01	-2.69	30	Pass	

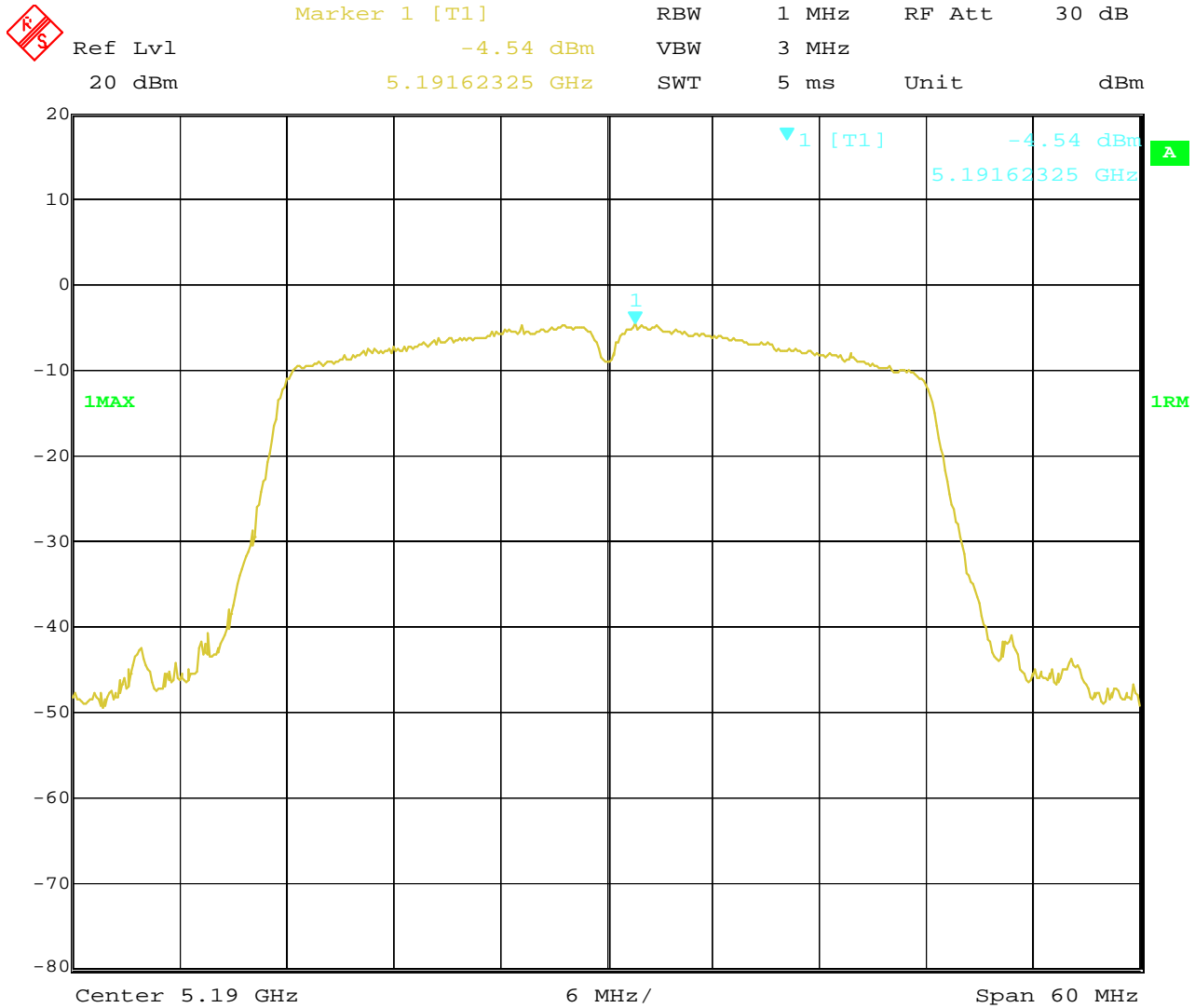
Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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

1.802.11ac at mcs0 of CH38



Date: 29.MAY.2021 10:20:08

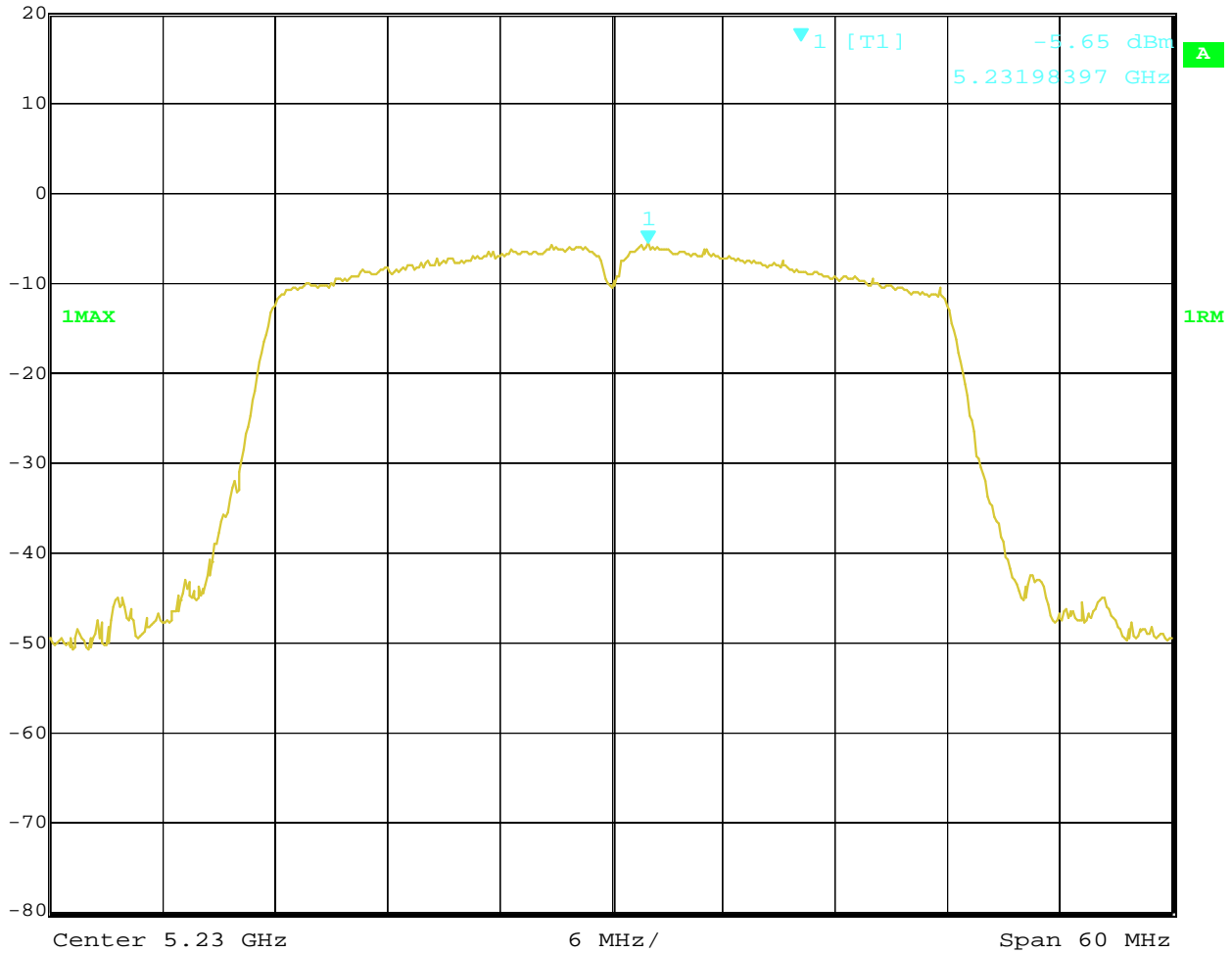
The report refers only to the sample tested and does not apply to the bulk.
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2.802.11ac at mcs0 of CH46



Ref Lvl	20 dBm	Marker 1 [T1]	-5.65 dBm	5.23198397 GHz	RBW	1 MHz	RF Att	30 dB	VBW	3 MHz	SWT	5 ms	Unit	dBm
---------	--------	---------------	-----------	----------------	-----	-------	--------	-------	-----	-------	-----	------	------	-----

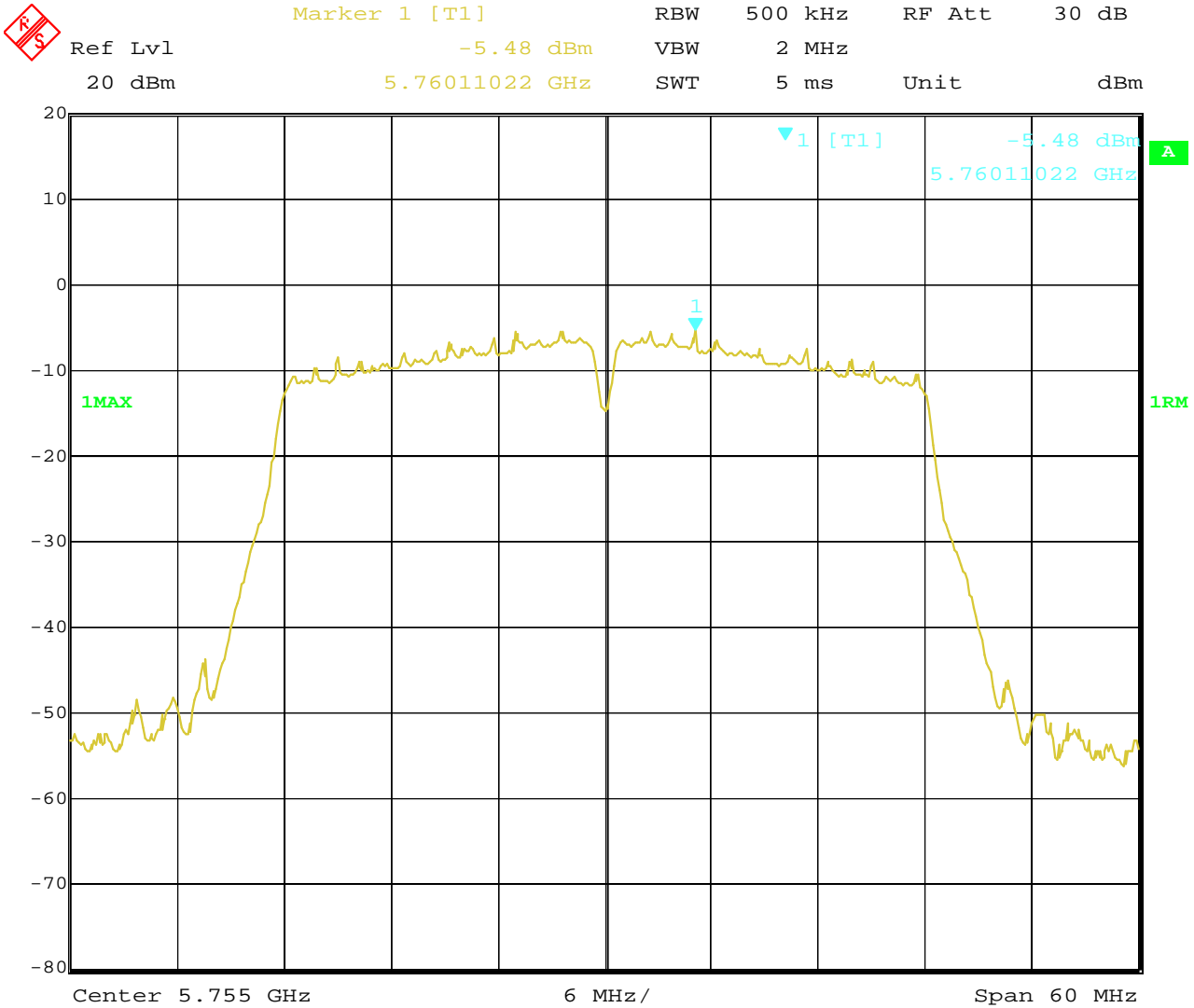


Date: 29.MAY.2021 10:21:07

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3.802.11ac at mcs0 of CH151

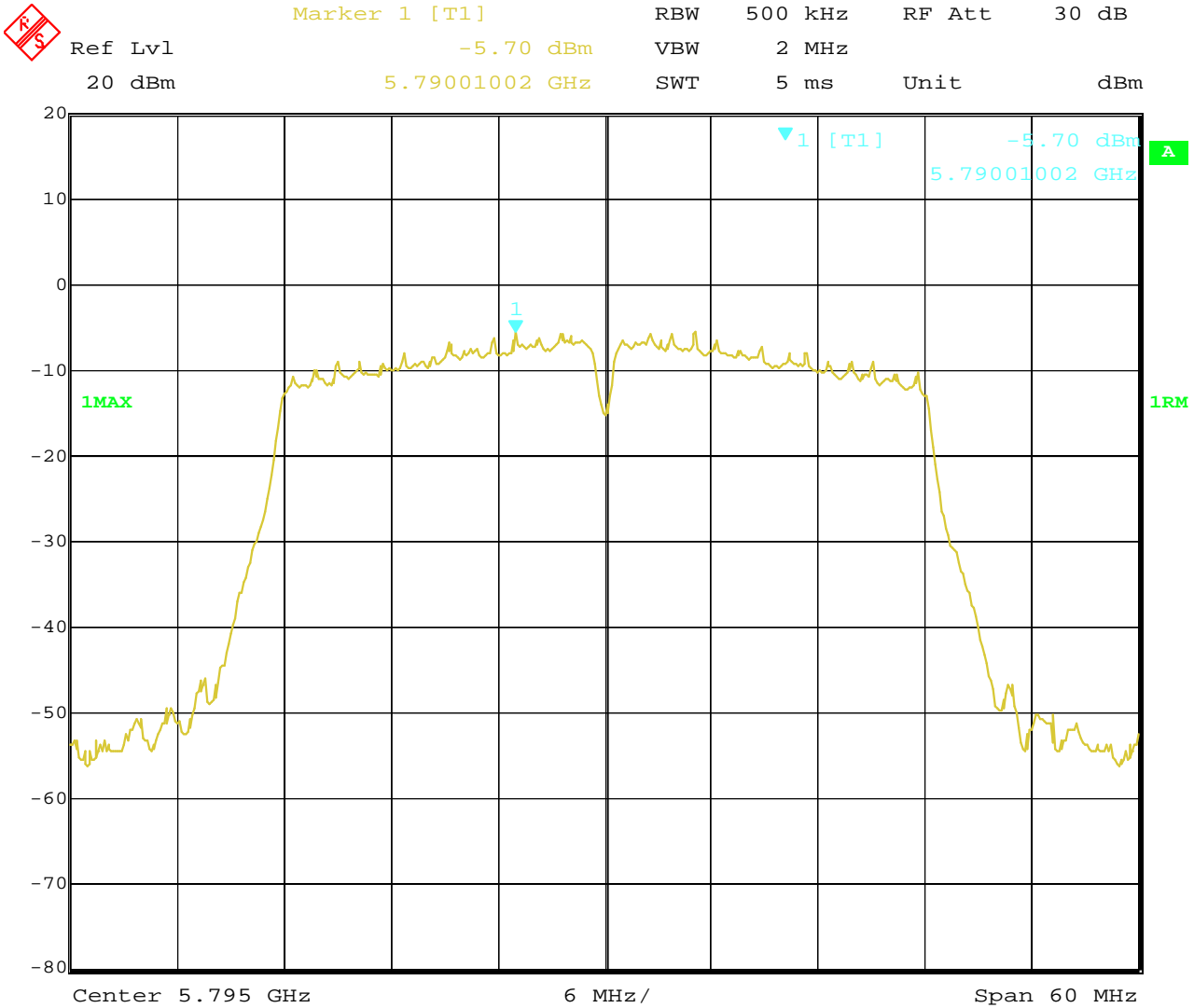


Date: 29.MAY.2021 18:44:08

The report refers only to the sample tested and does not apply to the bulk.
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4.802.11ac at mcs0 of CH159



Date: 29.MAY.2021 18:40:00

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ac VHT80 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
42	5210	-8.87	3.01	-5.86	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
155	5775	-9.36	3.01	-6.35	30	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

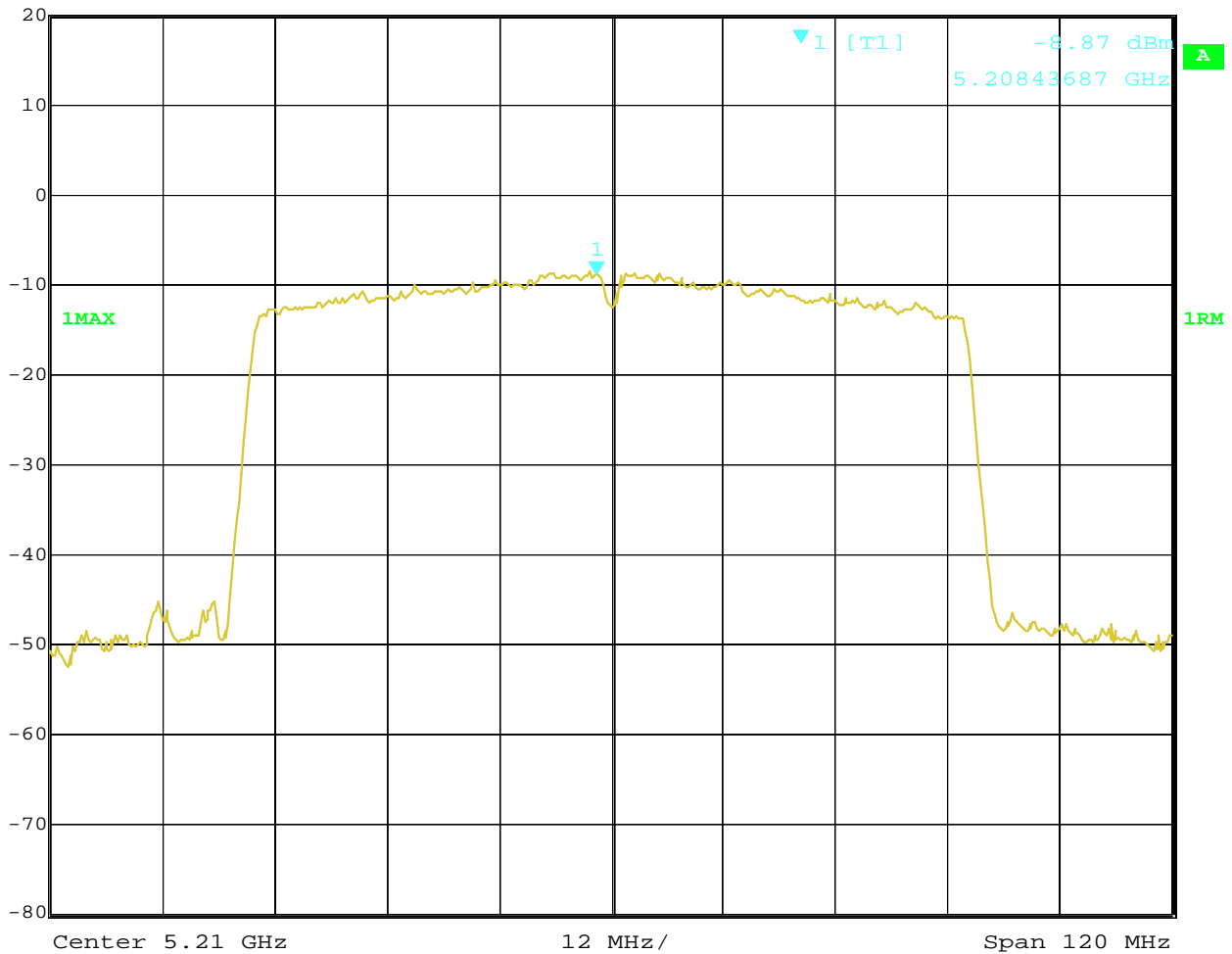
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Test Plots

1.802.11ac at mcs0 of CH42

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-8.87 dBm	VBW	3 MHz	
	20 dBm	5.20843687 GHz	SWT	5 ms	Unit



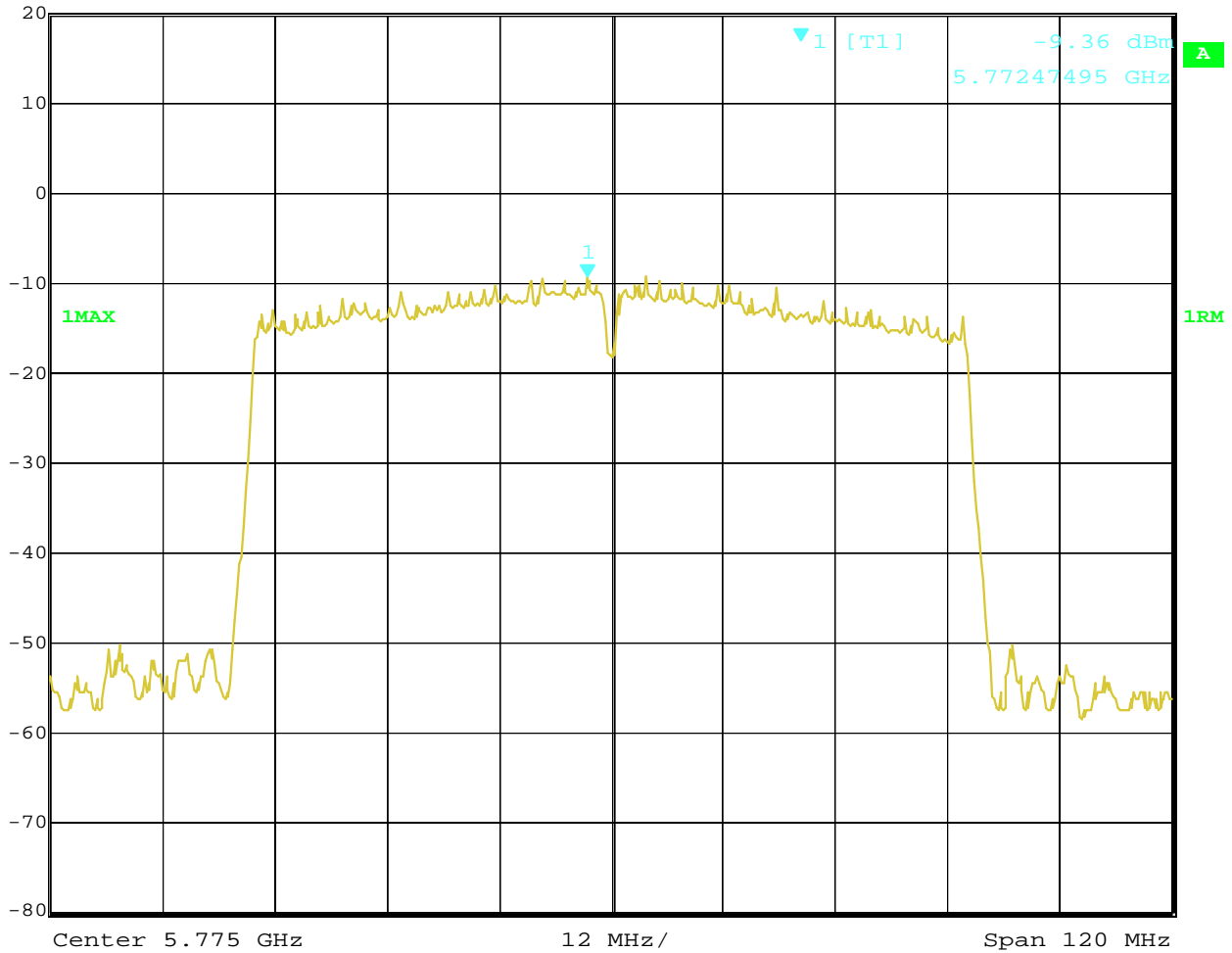
Date: 29.MAY.2021 10:08:30

The report refers only to the sample tested and does not apply to the bulk.
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2.802.11ac at mcs0 of CH155

	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	Ref Lvl	-9.36 dBm	VBW	2 MHz	
	20 dBm	5.77247495 GHz	SWT	5 ms	Unit dBm



Date: 29.MAY.2021 18:38:41

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ax HEW20 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	0.62	3.01	3.63	17	Pass	
40	5200	0.14	3.01	3.15	17	Pass	
48	5240	-1.49	3.01	1.52	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-2.23	3.01	0.78	30	Pass	
153	5765	-2.54	3.01	0.47	30	Pass	
161	5805	-2.62	3.01	0.39	30	Pass	

Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

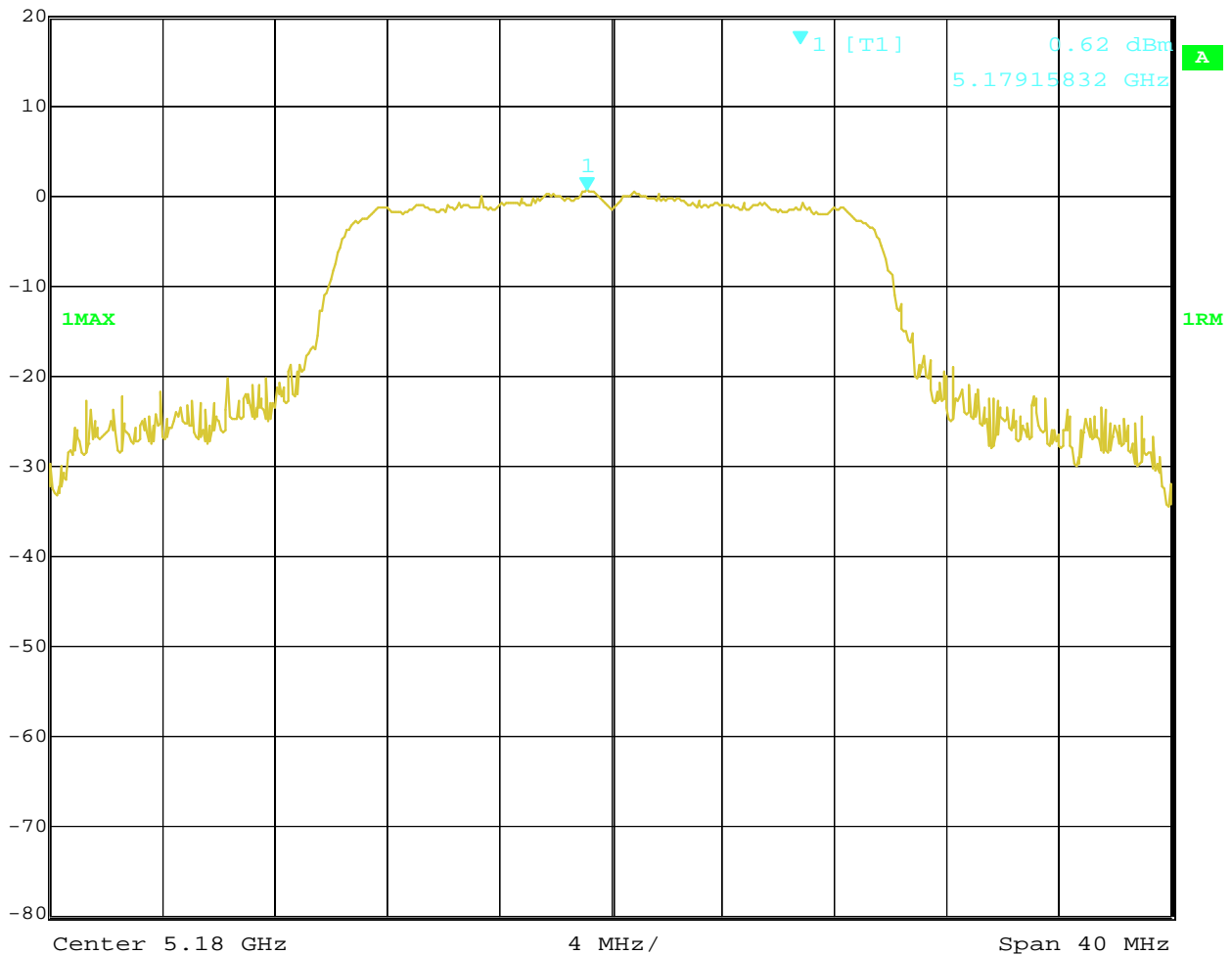
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Test Plots

1. 802.11ax HEW20 at mcs0 of CH36

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	0.62 dBm	VBW	3 MHz	
	20 dBm	5.17915832 GHz	SWT	5 ms	Unit dBm



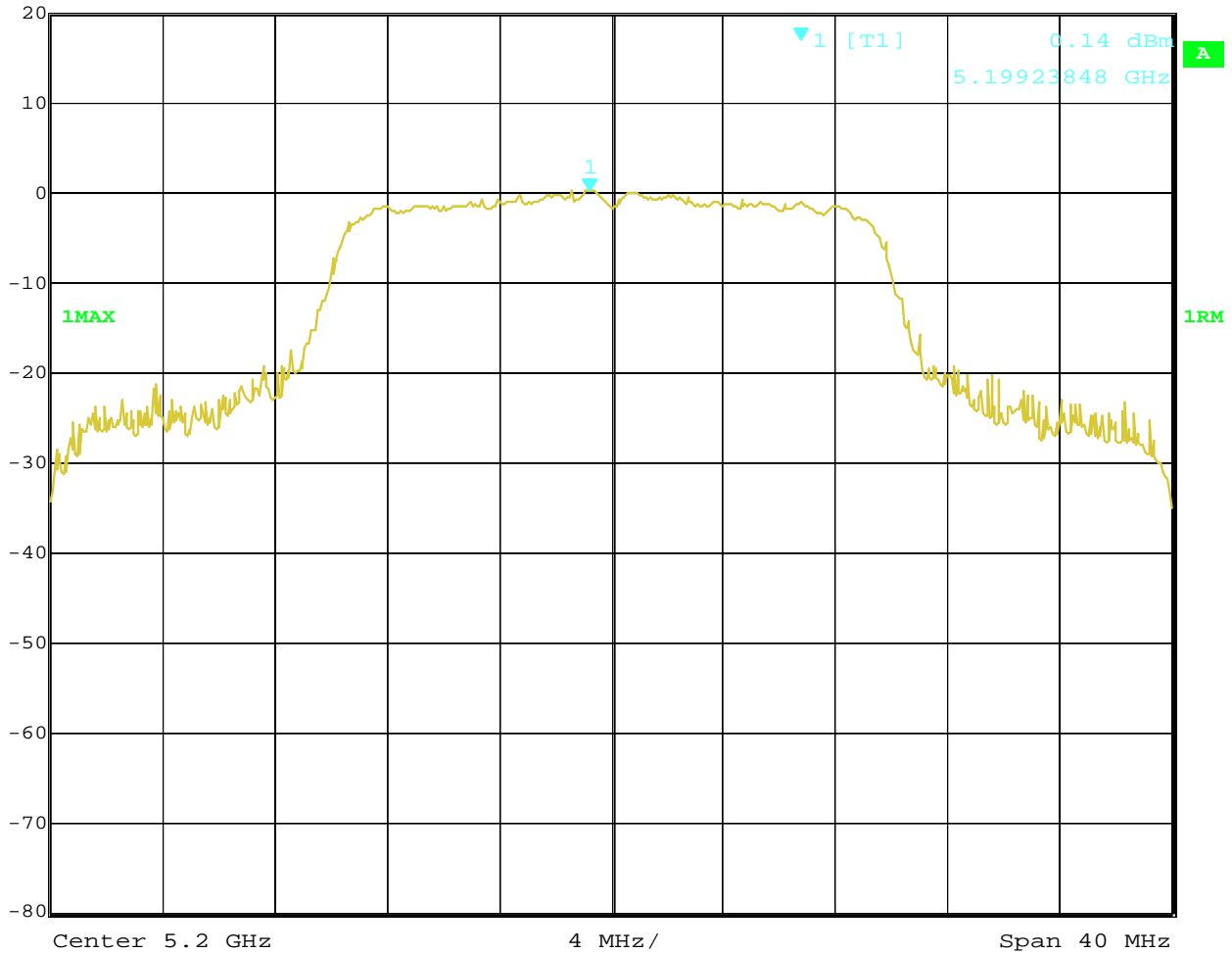
Date: 22.JUN.2021 14:43:37

The report refers only to the sample tested and does not apply to the bulk.
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2. 802.11ax HEW20 at mcs0 of CH40

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	0.14 dBm	VBW	3 MHz	
	20 dBm	5.19923848 GHz	SWT	5 ms	Unit dBm



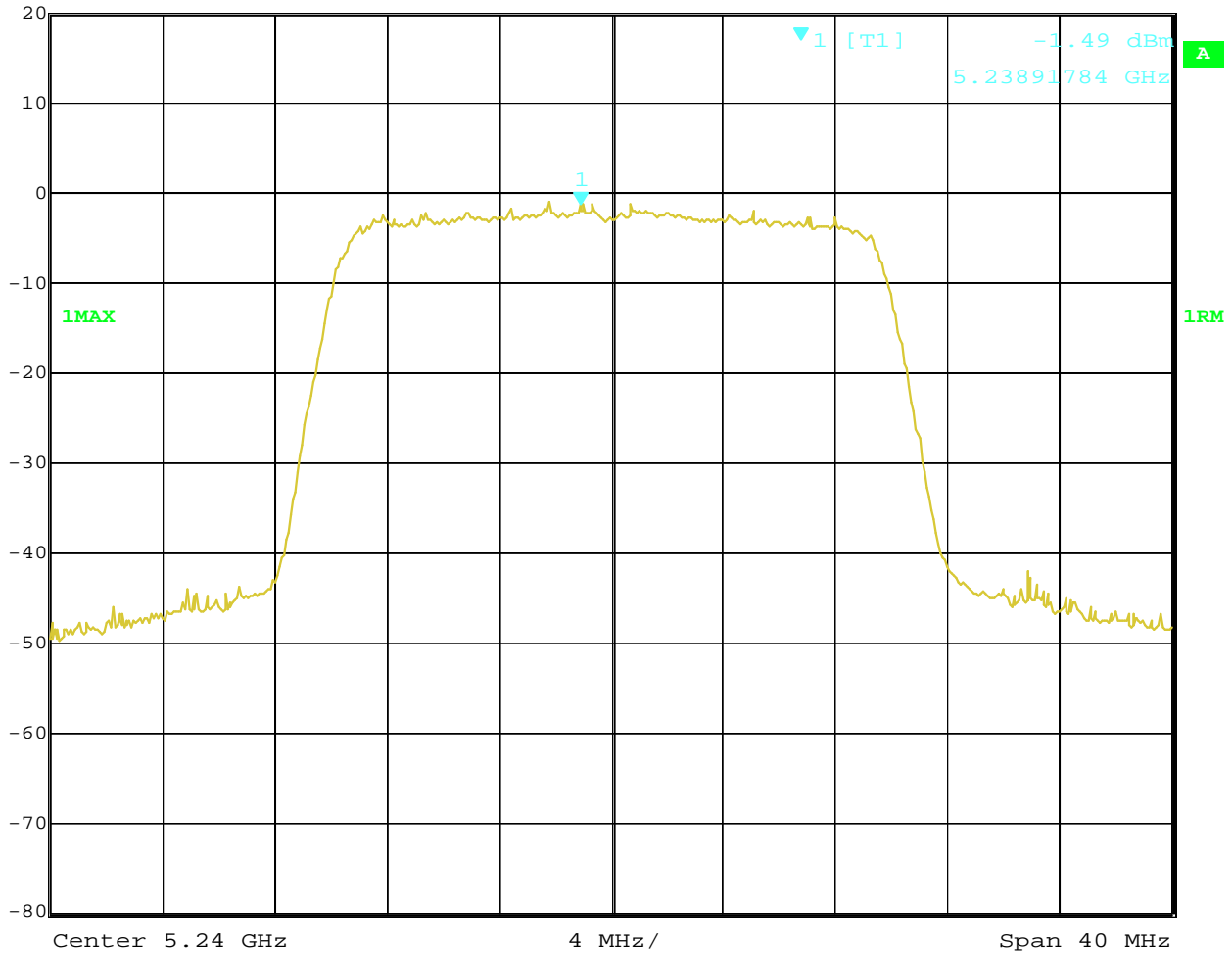
Date: 22.JUN.2021 14:40:29

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3. 802.11ax HEW20 at mcs0 of CH48

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-1.49 dBm	VBW	3 MHz	
	20 dBm	5.23891784 GHz	SWT	5 ms	Unit dBm



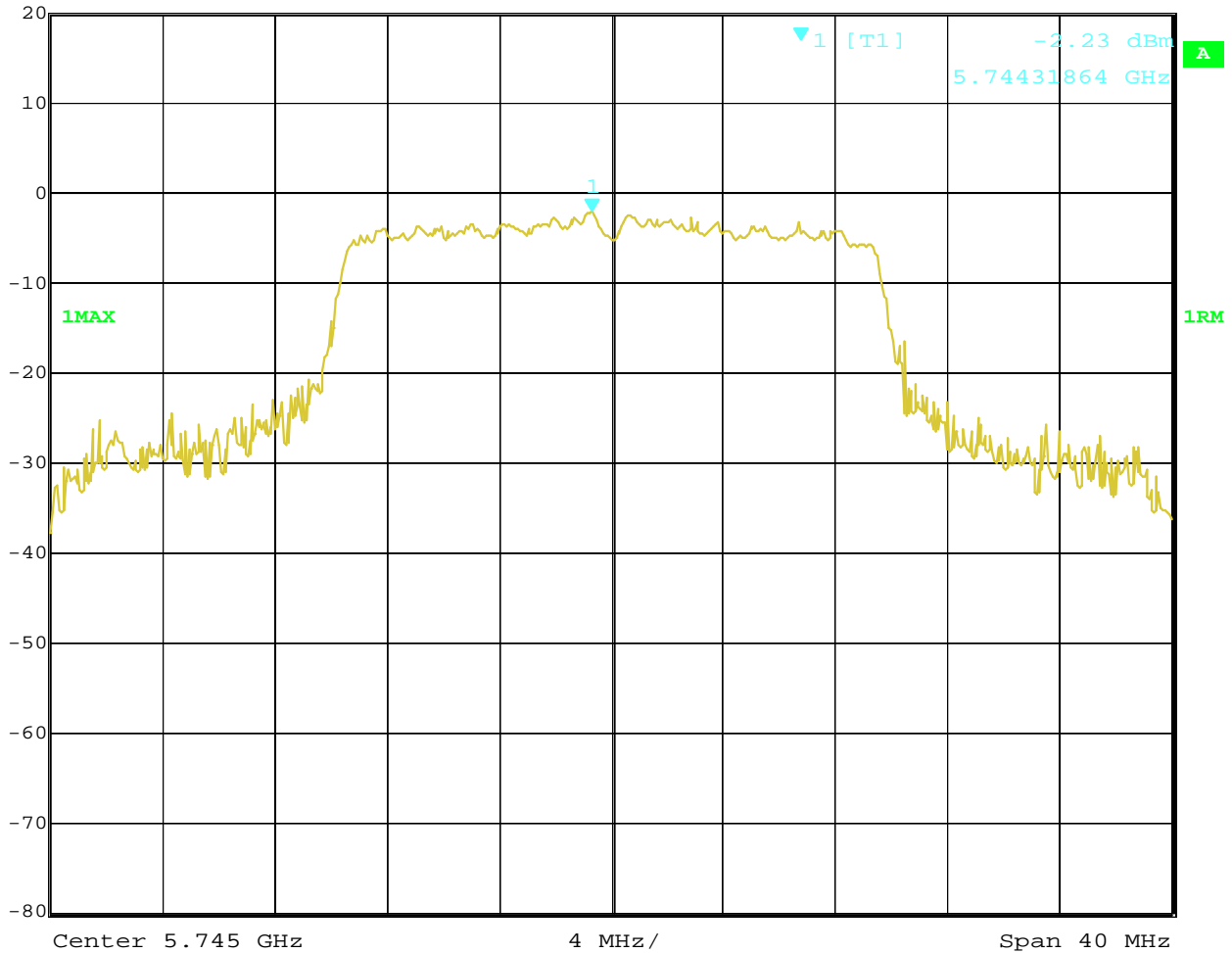
Date: 22.JUN.2021 14:34:53

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4. 802.11ax HEW20 at mcs0 of CH149

	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	Ref Lvl	-2.23 dBm	VBW	2 MHz	
	20 dBm	5.74431864 GHz	SWT	5 ms	Unit dBm



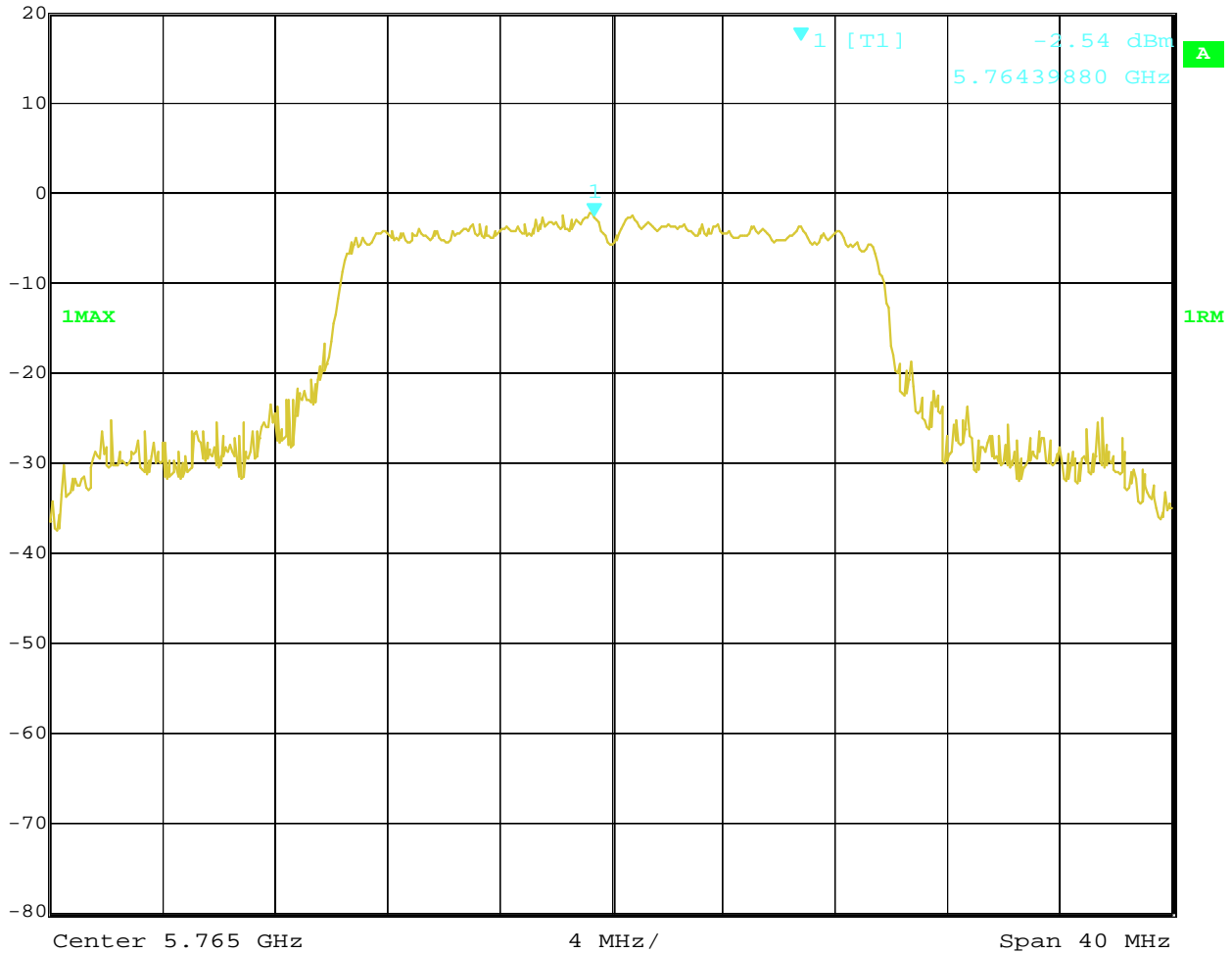
Date: 23.JUN.2021 07:55:50

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5. 802.11ax HEW20 at mcs0 of CH153

	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	Ref Lvl	-2.54 dBm	VBW	2 MHz	
	20 dBm	5.76439880 GHz	SWT	5 ms	Unit dBm



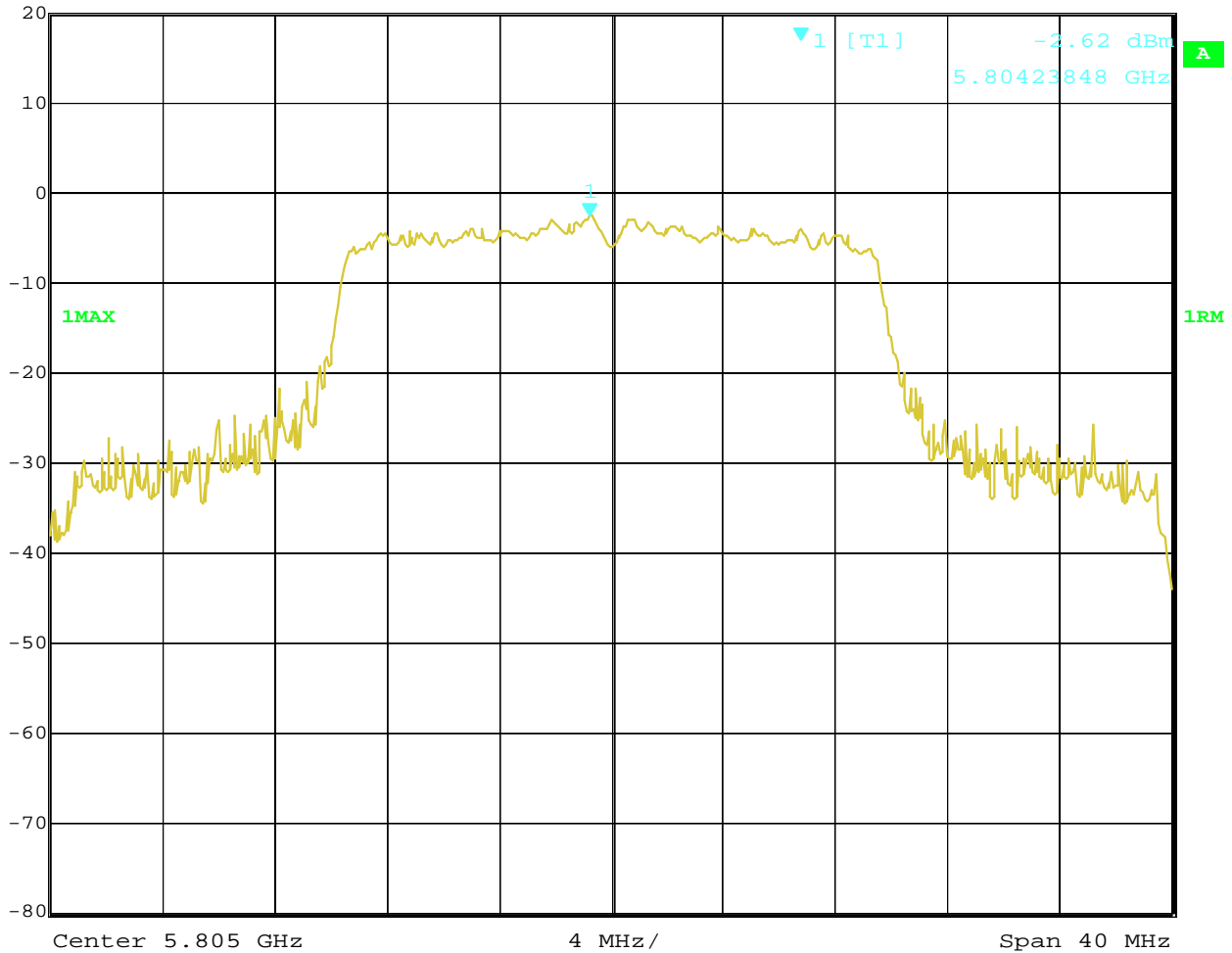
Date: 23.JUN.2021 08:10:26

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6.802.11ax HEW20 at mcs0 of CH161

	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	Ref Lvl	-2.62 dBm	VBW	2 MHz	
	20 dBm	5.80423848 GHz	SWT	5 ms	Unit dBm



Date: 23.JUN.2021 08:12:26

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ax HEW40 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-2.54	3.01	0.47	17	Pass	
46	5230	-3.86	3.01	-0.85	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-4.80	3.01	-1.79	30	Pass	
159	5795	-5.27	3.01	-2.26	30	Pass	

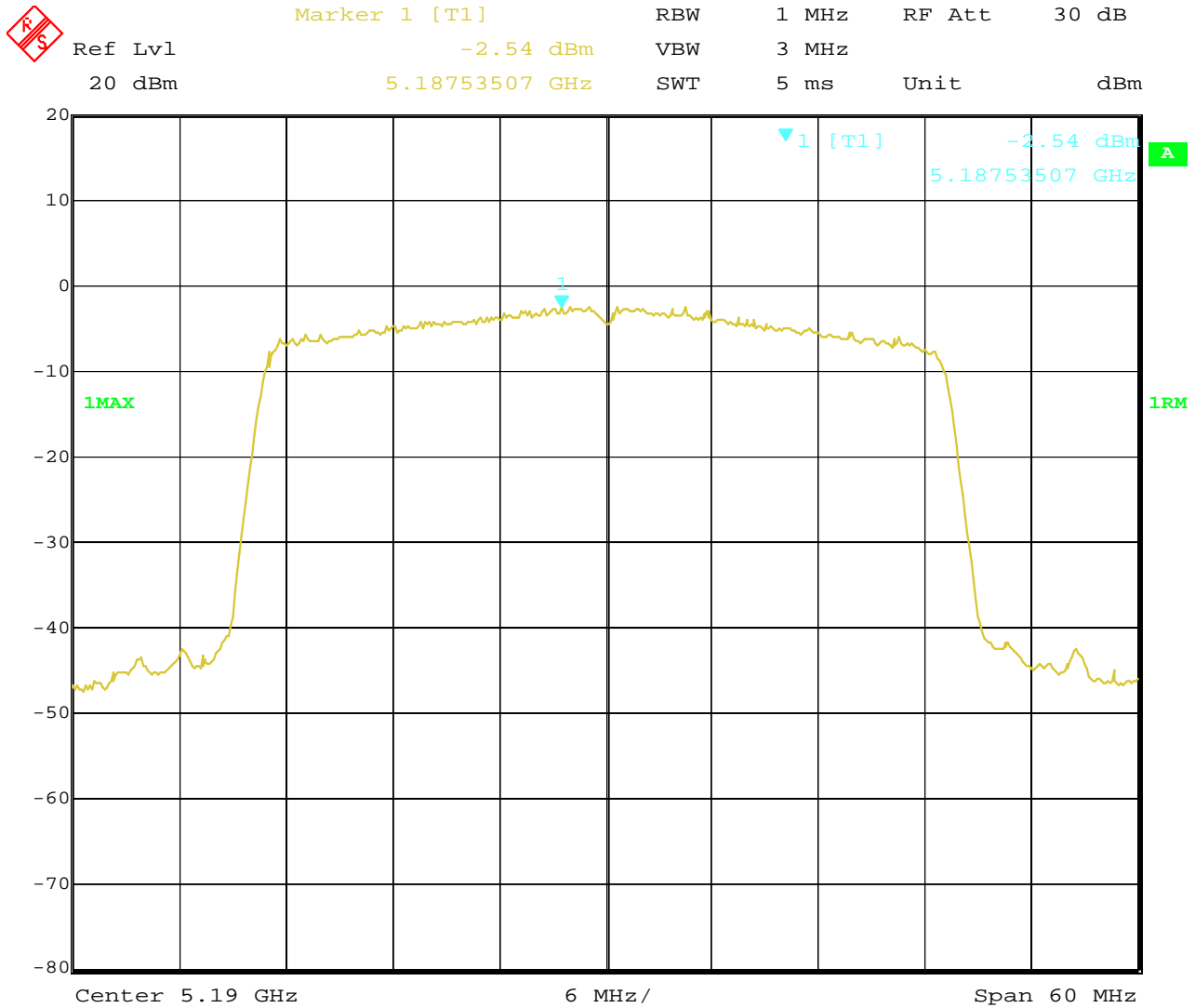
Note: Chain 2 and Chain 3 were tested and only the worst case was recorded in the test report. Chain 2 was the worst case.

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Test Plots

1.802.11ax HEW40 at mcs0 of CH38



Date: 22.JUN.2021 14:47:28

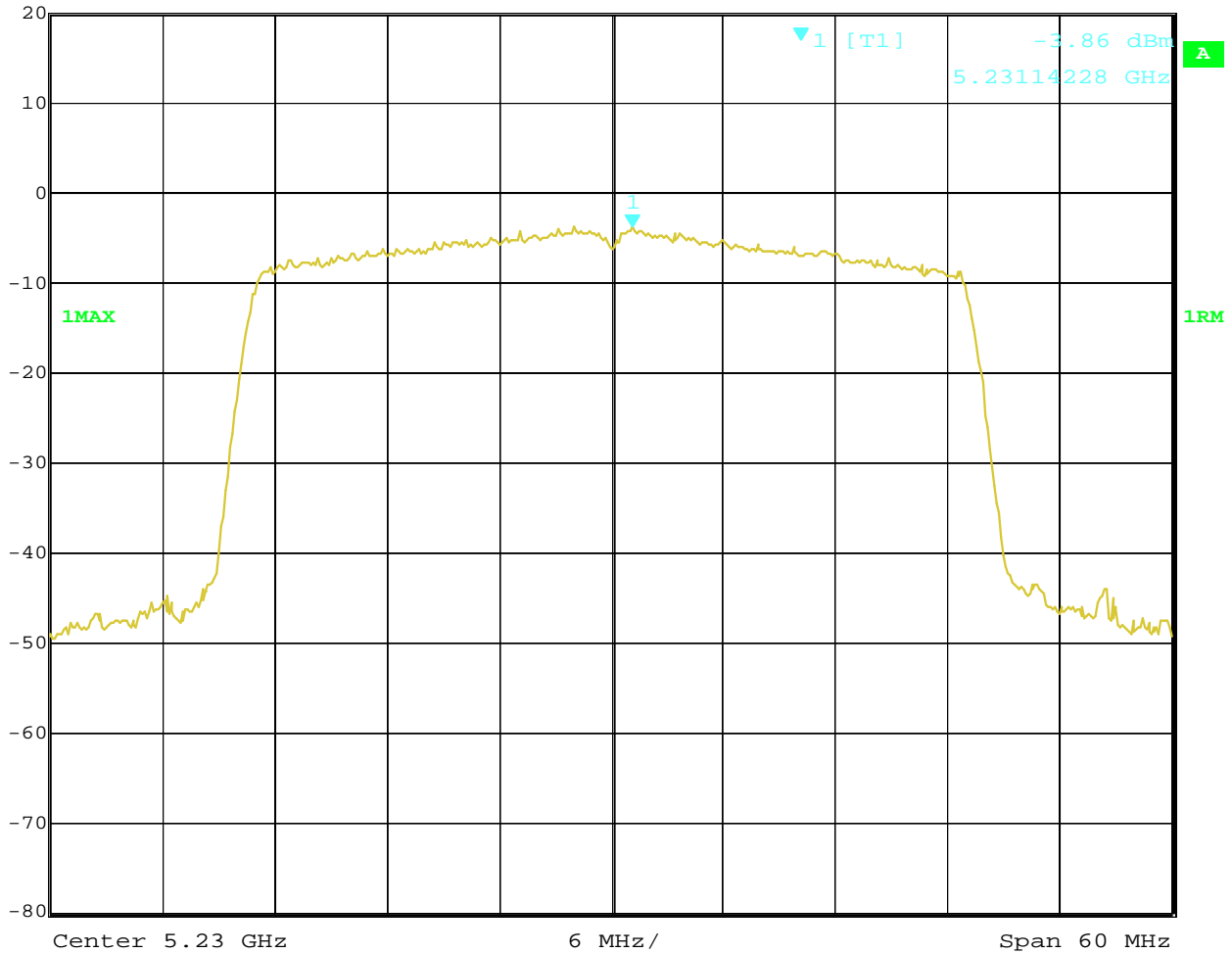
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2.802.11ax HEW40 at mcs0 of CH46



Ref Lvl	20 dBm	Marker 1 [T1]	5.23114228 GHz	RBW	1 MHz	RF Att	30 dB
				VBW	3 MHz		
				SWT	5 ms	Unit	dBm



Date: 22.JUN.2021 15:00:40

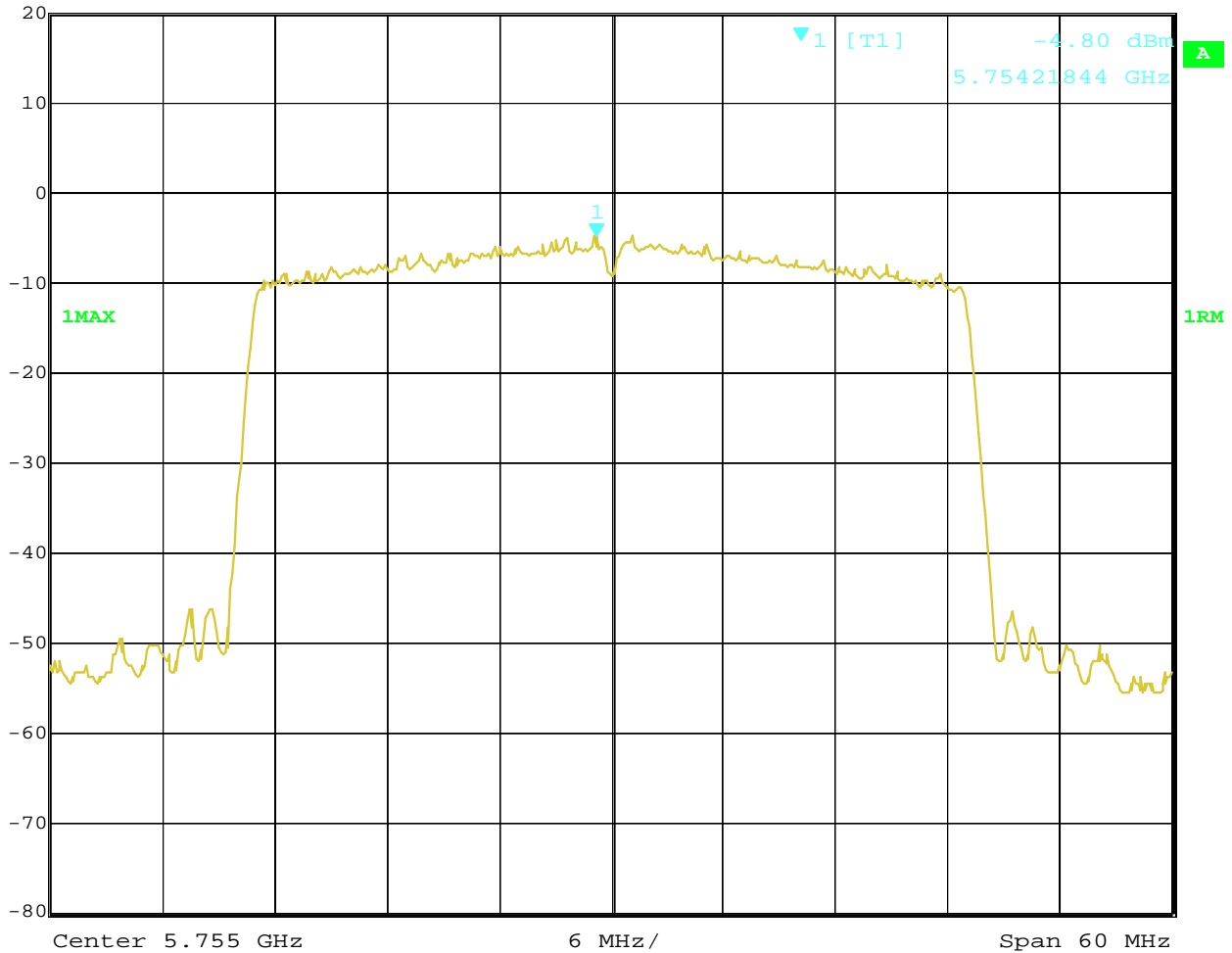
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3.802.11ax HEW40 at mcs0 of CH151



Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
20 dBm	-4.80 dBm	VBW	2 MHz	Unit	dBm
	5.75421844 GHz	SWT	5 ms		



Date: 23.JUN.2021 08:57:11

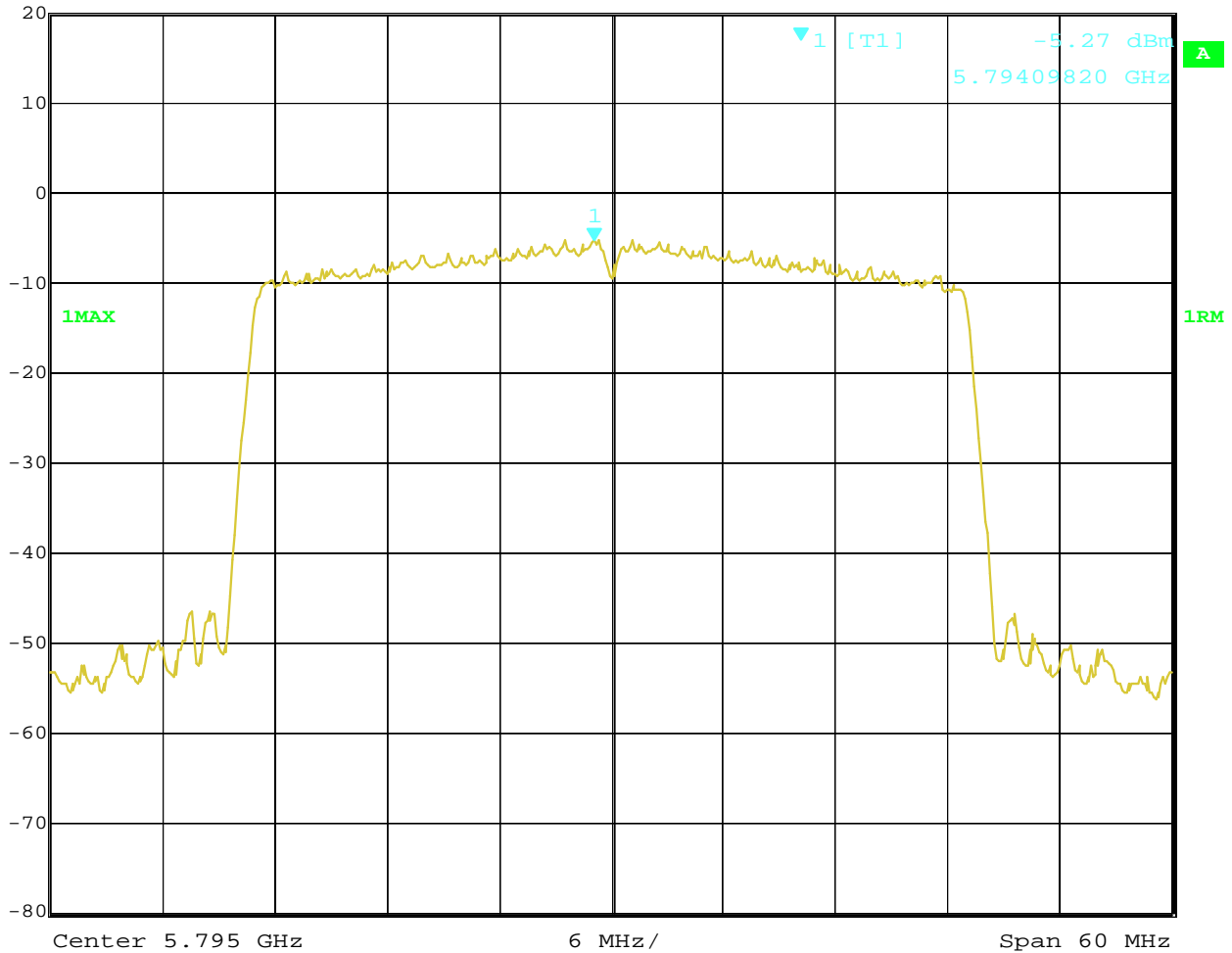
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4.802.11ax HEW40 at mcs0 of CH159



Ref Lvl	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
20 dBm	-5.27 dBm	VBW	2 MHz		
	5.79409820 GHz	SWT	5 ms	Unit	dBm



Date: 23.JUN.2021 09:01:19

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EUT		wireless router		Model		WR-AX01	
Mode		802.11ac HEW80 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
42	5210	1.12	3.01	4.13	17	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
155	5775	-9.05	3.01	-6.04	30	Pass	

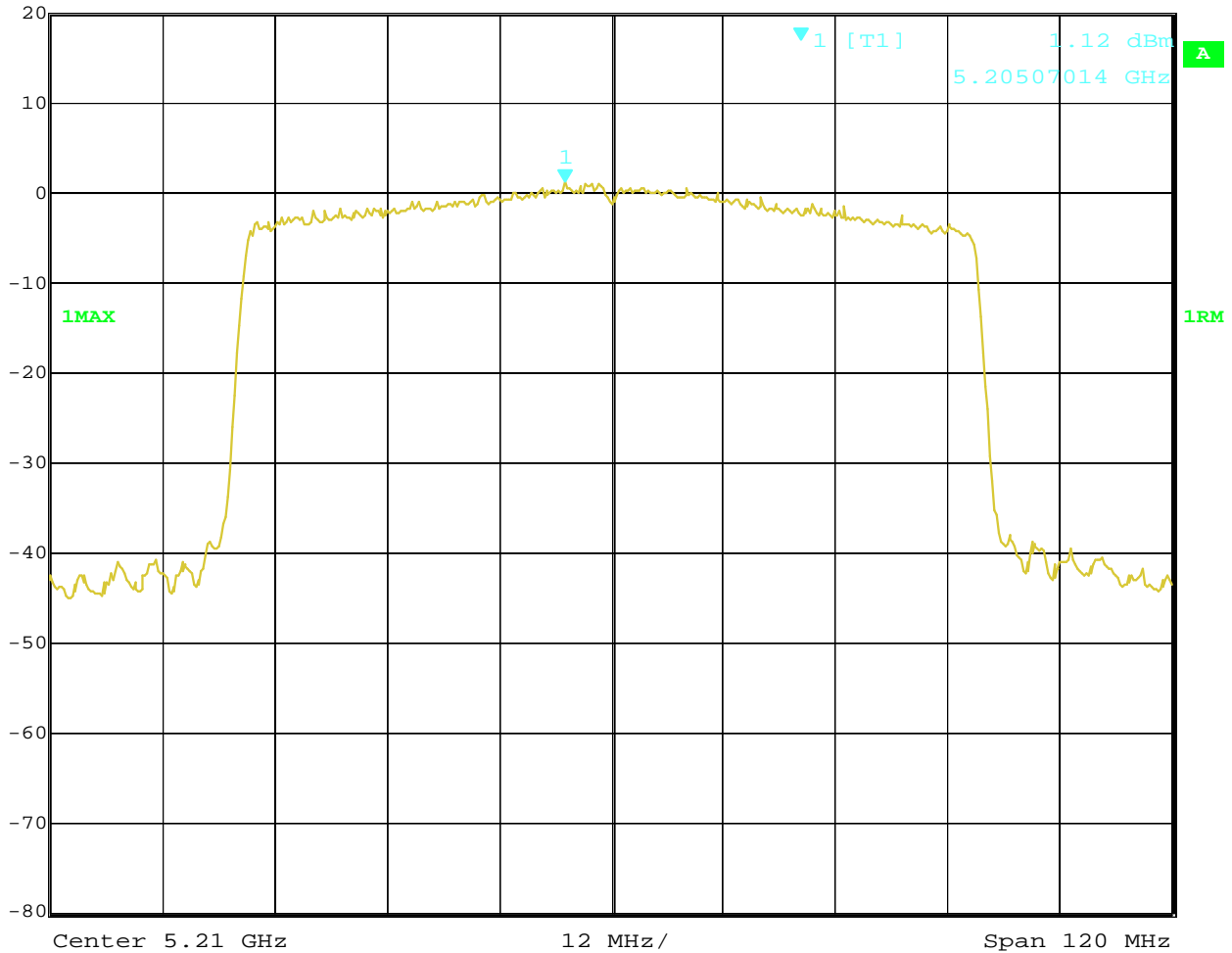
Note: Chain 2 and Chain 3 were tested and only the worst cased was recorded in the test report. Chain 2 was the worst case.

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1.802.11ax HEW80 at mcs0 of CH42

	Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	1.12 dBm	VBW	3 MHz	
	20 dBm	5.20507014 GHz	SWT	5 ms	Unit dBm



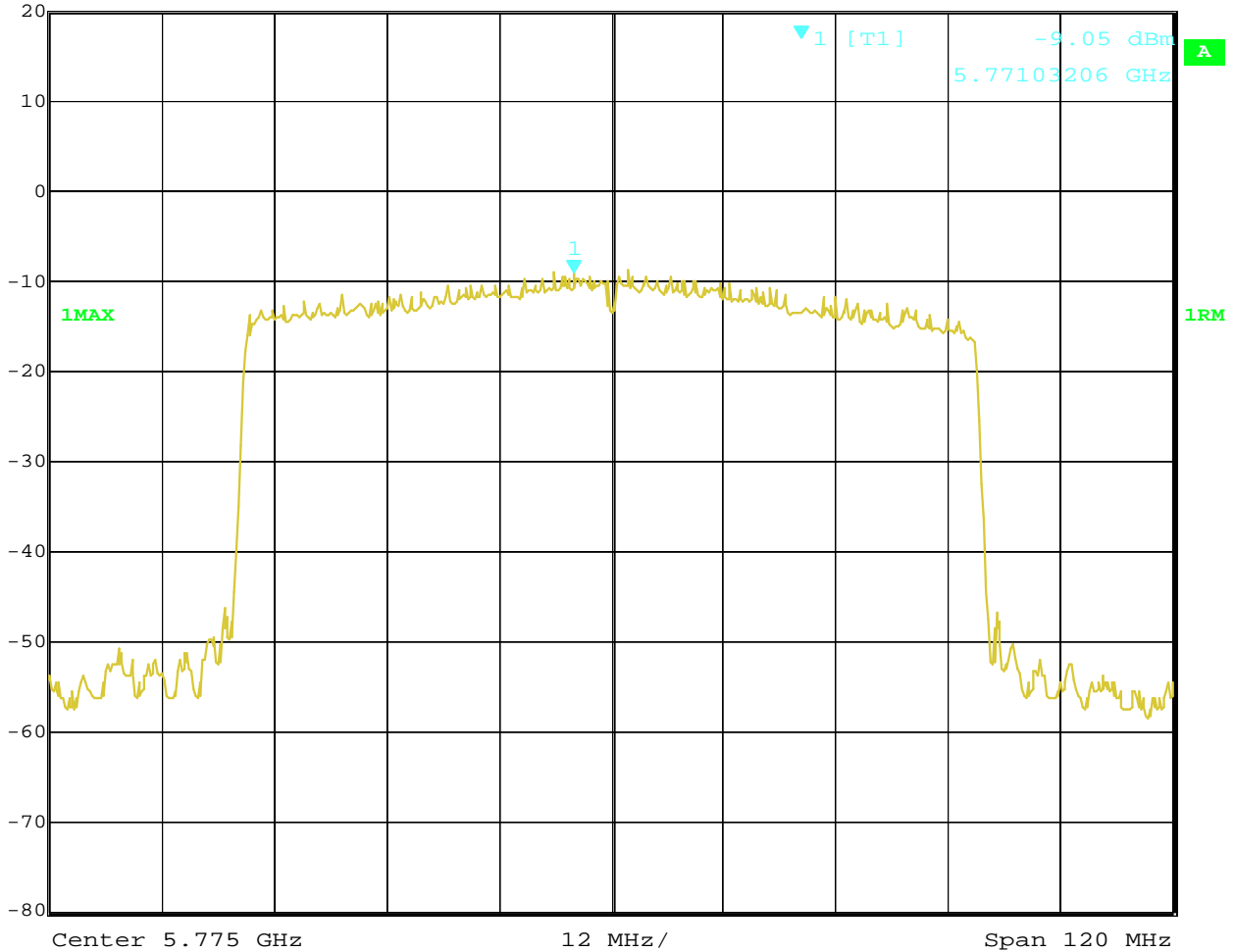
Date: 22.JUN.2021 15:01:55

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2.802.11ax HEW80 at mcs0 of CH151

	Marker 1 [T1]	RBW	500 kHz	RF Att	30 dB
	Ref Lvl	-9.05 dBm	VBW	2 MHz	
	20 dBm	5.77103206 GHz	SWT	5 ms	Unit dBm



Date: 23.JUN.2021 10:56:25

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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 +/- 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	5180.0549
120V	5180.0536
102V	5180.0552
Max. Deviation (MHz)	0.0552
Max. Deviation (ppm)	10.7

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5180.0536
-20	5180.0543
-10	5180.0551
0	5180.0543
10	5180.0548
20	5180.0539
30	5180.0550
40	5180.0543
50	5180.0538
Max. Deviation (MHz)	0.0550
Max. Deviation (ppm)	10.6

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Channel 149 (5745MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
138V	5745.0612
120V	5745.0609
102V	5745.0608
Max. Deviation (MHz)	0.0204
Max. Deviation (ppm)	3.6

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5745.0615
-20	5745.0610
-10	5745.0619
0	5745.0621
10	5745.0607
20	5745.0619
30	5745.0614
40	5745.0615
50	5745.0618
Max. Deviation (MHz)	0.0621
Max. Deviation (ppm)	10.8

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11.0 Antenna Requirement

11.1 Standard Applicable

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

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

11.2 Antenna Connected construction

Two Dipole antennas used. The maximum Gain of each antenna is 8.54 dBi for each one.

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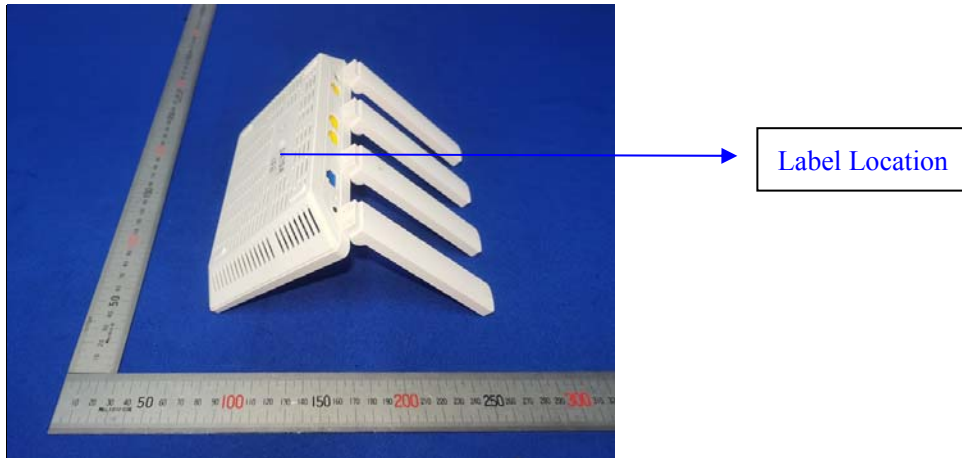
12.0 FCC ID Label

FCC ID: 2AITH-WR-AX01

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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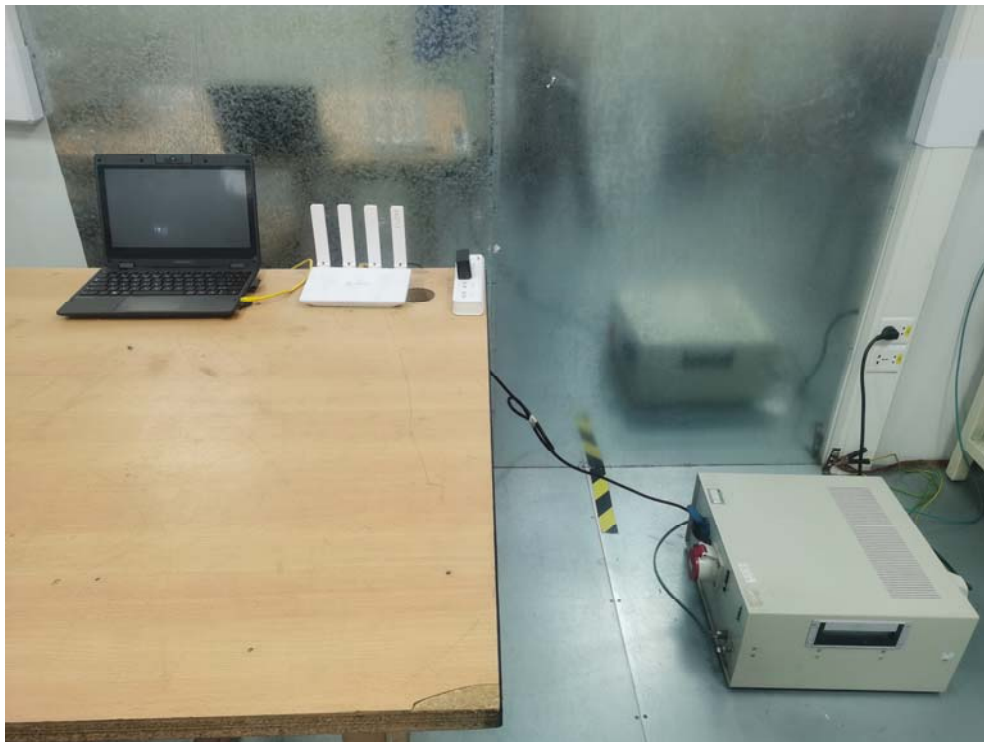
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13.0 Photo of testing

Conducted Emission Test Setup:



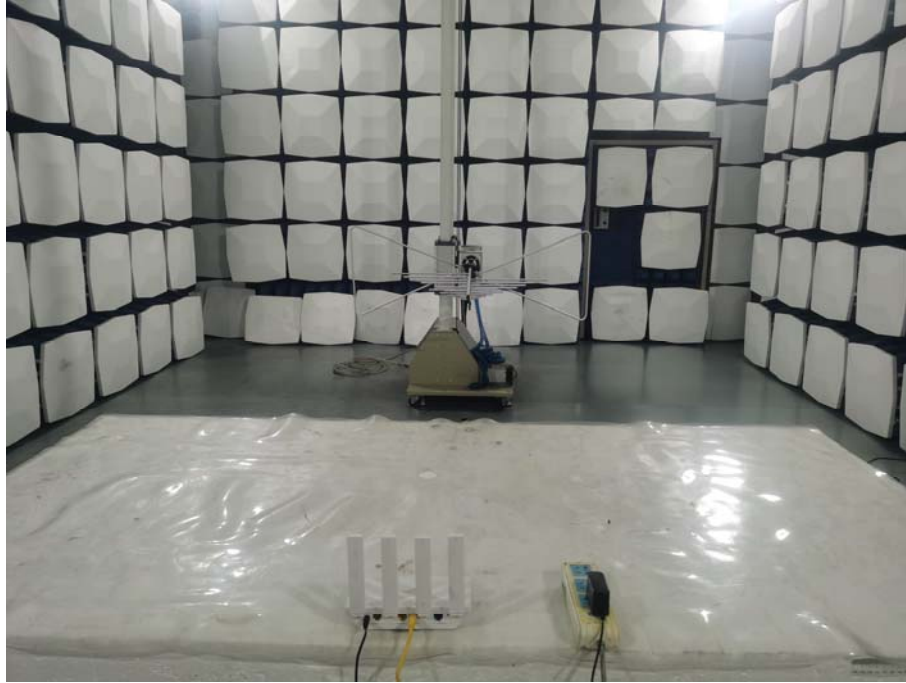
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Radiated Emission Test Setup:



Photos of EUT

Please see test report TW2105002-01E

End of the report

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