



Report No: TW2206192-02E  
File reference No: 2022-07-04

Applicant: SHENZHEN TQSKY TECHNOLOGY CO.,LTD

Product: TQSky Tbox

Model No: TBOX

Trademark: TQSKY

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

*Terry Tang*

Terry Tang

Manager

Dated: July 04, 2022

**Results appearing herein relate only to the sample tested**

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

**SHENZHEN TIMEWAY TESTING LABORATORIES**

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

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



### **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 17025:2017 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

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

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

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

#### **A2LA (Certification Number:5013.01)**

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

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Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

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

### 1.2 Applicant Details

Applicant: SHENZHEN TQSKY TECHNOLOGY CO.,LTD  
Address: No.2306 Haowei Building Yuehai Street, Nanshan, Shenzhen, China.  
Telephone: 18923731089  
Fax: --

### 1.3 Description of EUT

Product: TQSky Tbox  
Manufacturer: SHENZHEN TQSKY TECHNOLOGY CO.,LTD  
Address: No.2306 Haowei Building Yuehai Street, Nanshan, Shenzhen, China.  
Trademark: TQSKY  
Additional Trademark: N/A  
Model Number: TBOX  
Additional Model Number: N/A  
Hardware Version: BJ203-V1  
Software Version: 20220708.V1.4.2  
Serial No.: 2AA227C0001  
Rating: Input: DC5V, 2A  
Battery: DC3.85V, 5000mAh Li-ion battery  
Type of Modulation IEEE 802.11a/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK);  
IEEE 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM  
Frequency Band 1: 5180MHz-5240MHz;  
Band 4: 5745MHz-5805MHz  
Air Data Rate IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps  
IEEE 802.11n/HT20: mcs0-mcs15  
IEEE 802.11n/HT40: mcs0-mcs15  
IEEE 802.11ac: NSS1 mcs0-mcs9

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Antenna: FPC Antenna. The gain of the antennas is 0.8dBi (Declared by the applicant)  
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;

Frequency Selection By software

Each Channel Operation Frequency

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

The selected test channels as follows:

Band 1					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
48	5240 MHz				

Band 4					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	151	5755 MHz	155	5775 MHz
153	5765 MHz	159	5795 MHz		
161	5805 MHz				

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

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1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2022-06-17 to 2022-07-04

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

*Andy Xing*

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16
Loop Antenna	EMCO	6507	00078608	2022-06-17	2023-06-16
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-06-17	2023-06-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16
Spectrum	RS	FSP	1164.4391.38	2022-01-14	2023-01-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2022-06-17	2023-06-16
RF Cable	Zhengdi	7m	--	2022-06-17	2023-06-16
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

## 2.2 Automation Test Software

### For Conducted Emission Test

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

### For Radiated Emissions

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

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### 3.0 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 15.407	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart E Paragraph 15.407 (b1/4/5/6/7), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Transmit Power	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(6)	Peak Power Excursion	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Power Spectral Density	Pass	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	Pass	Complies

#### 3.2 Test Standards

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

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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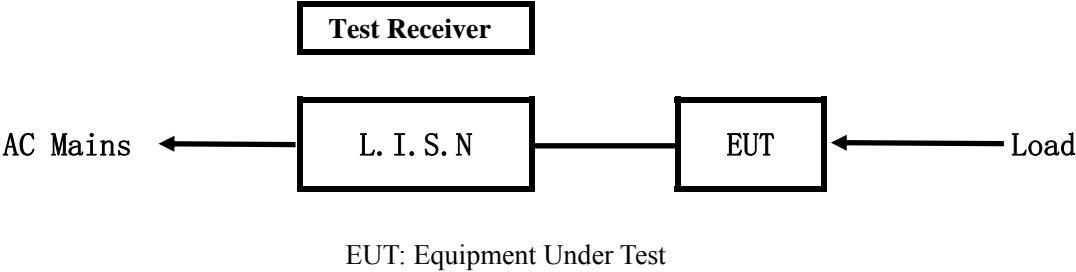
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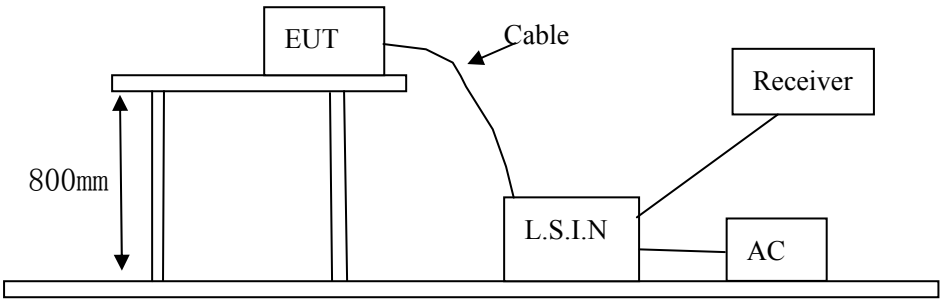
5. Power Line Conducted Emission Test

5.1 Schematics of the test



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
TQSky Tbox	SHENZHEN TQSKY TECHNOLOGY CO.,LTD	TBOX	2A7Q4-TBOX

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

5.4 EUT Operating Condition

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

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

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

5.6 Test Results

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

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

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

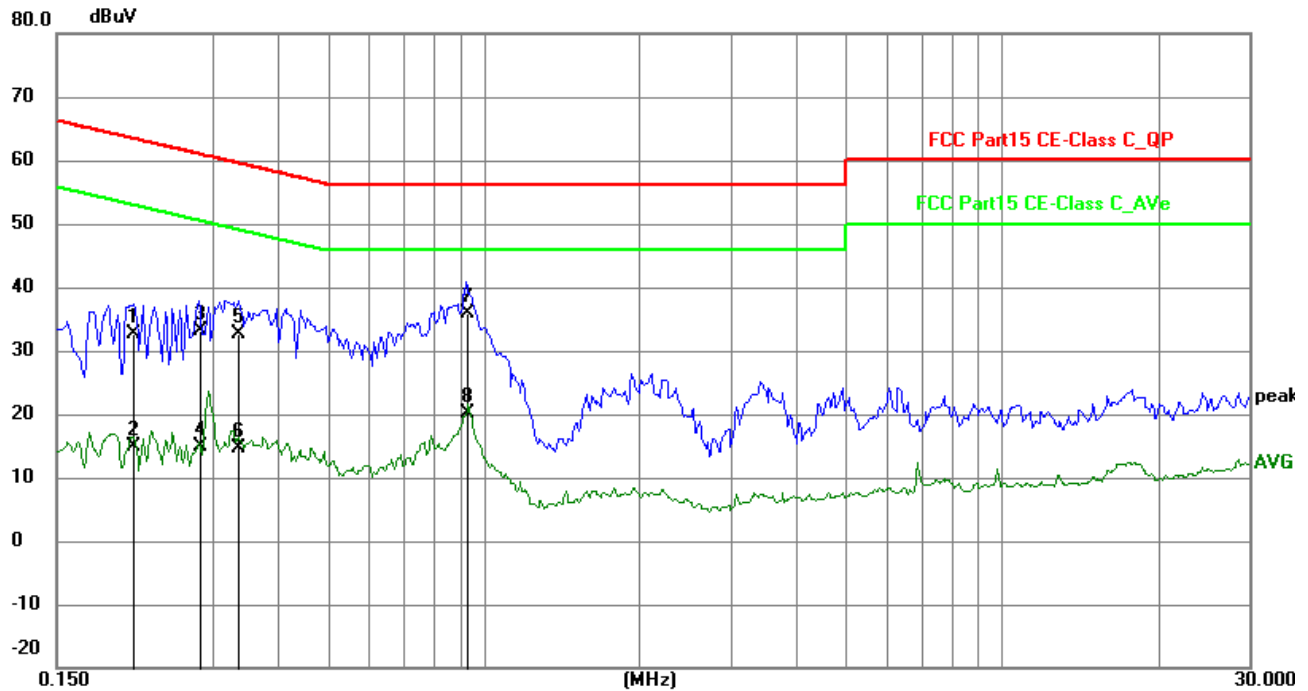
**EUT Operating Environment**

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

**EUT set Condition: 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	0.2106	22.78	9.75	32.53	63.18	-30.65	QP	P
2	0.2106	5.02	9.75	14.77	53.18	-38.41	AVG	P
3	0.2826	23.40	9.76	33.16	60.74	-27.58	QP	P
4	0.2826	5.22	9.76	14.98	50.74	-35.76	AVG	P
5	0.3372	22.83	9.76	32.59	59.27	-26.68	QP	P
6	0.3372	4.91	9.76	14.67	49.27	-34.60	AVG	P
7	0.9261	26.12	9.79	35.91	56.00	-20.09	QP	P
8	0.9261	10.33	9.79	20.12	46.00	-25.88	AVG	P

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

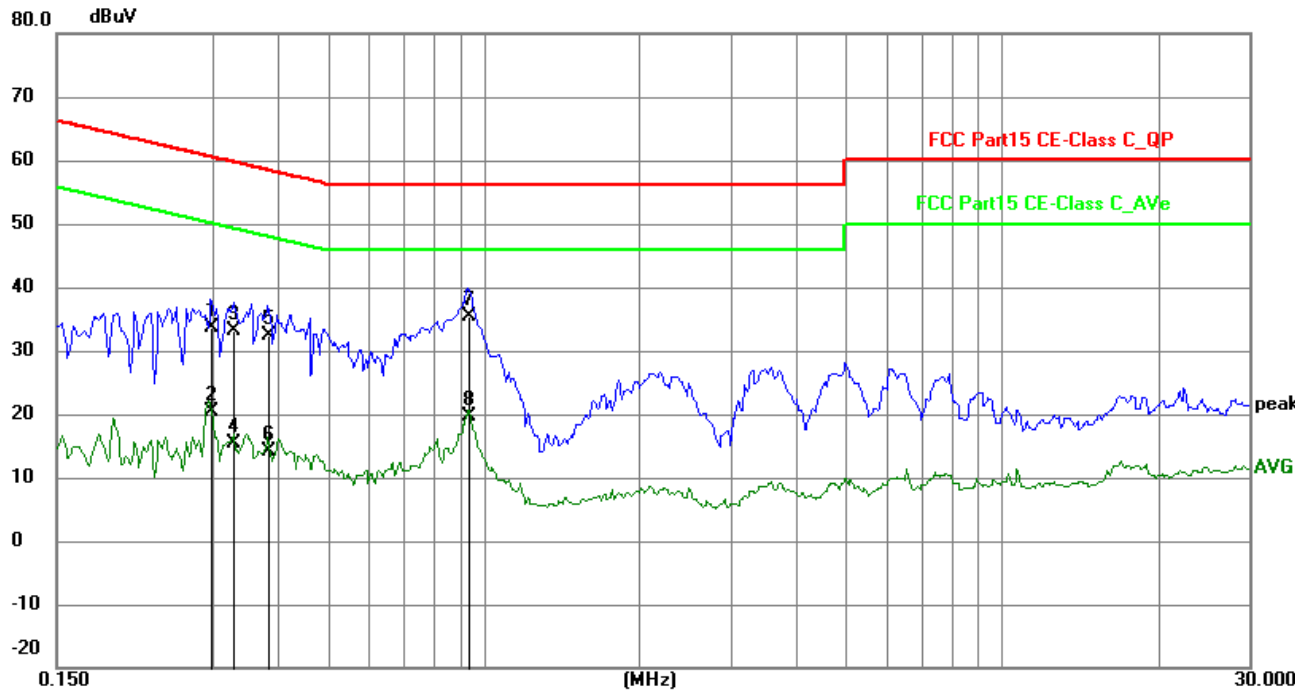
**EUT Operating Environment**

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	0.2982	23.77	9.76	33.53	60.29	-26.76	QP	P
2	0.2982	10.50	9.76	20.26	50.29	-30.03	AVG	P
3	0.3294	23.40	9.76	33.16	59.47	-26.31	QP	P
4	0.3294	5.68	9.76	15.44	49.47	-34.03	AVG	P
5	0.3840	22.54	9.76	32.30	58.19	-25.89	QP	P
6	0.3840	4.41	9.76	14.17	48.19	-34.02	AVG	P
7	0.9378	25.54	9.79	35.33	56.00	-20.67	QP	P
8	0.9378	9.96	9.79	19.75	46.00	-26.25	AVG	P

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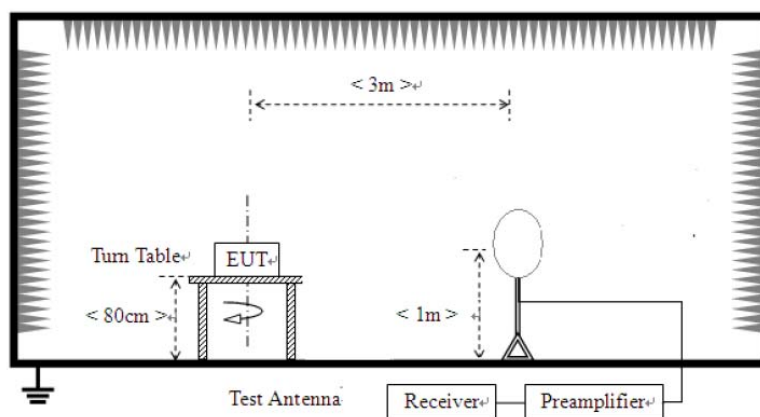
## 6 Undesirable Emission and Restrict band

### 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



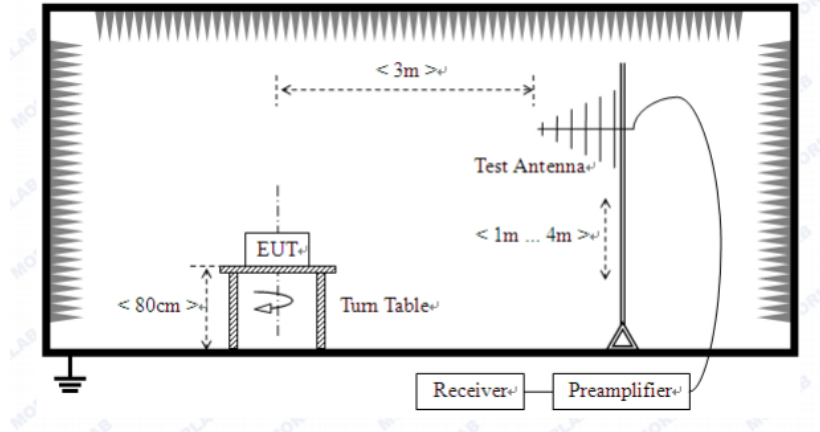
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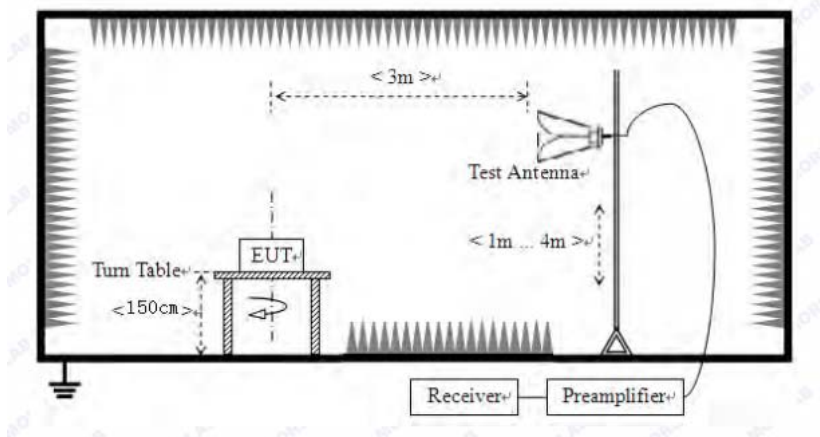
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of The EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 6.4 Radiated Emission Limit

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

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

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

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

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

**Note: Only the worst case was recorded in the test report. and 802.11a is the worst case.**

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**Test result**

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

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

**EUT set Condition:      Keeping WIFI Transmitting**

**Results:                      Pass**

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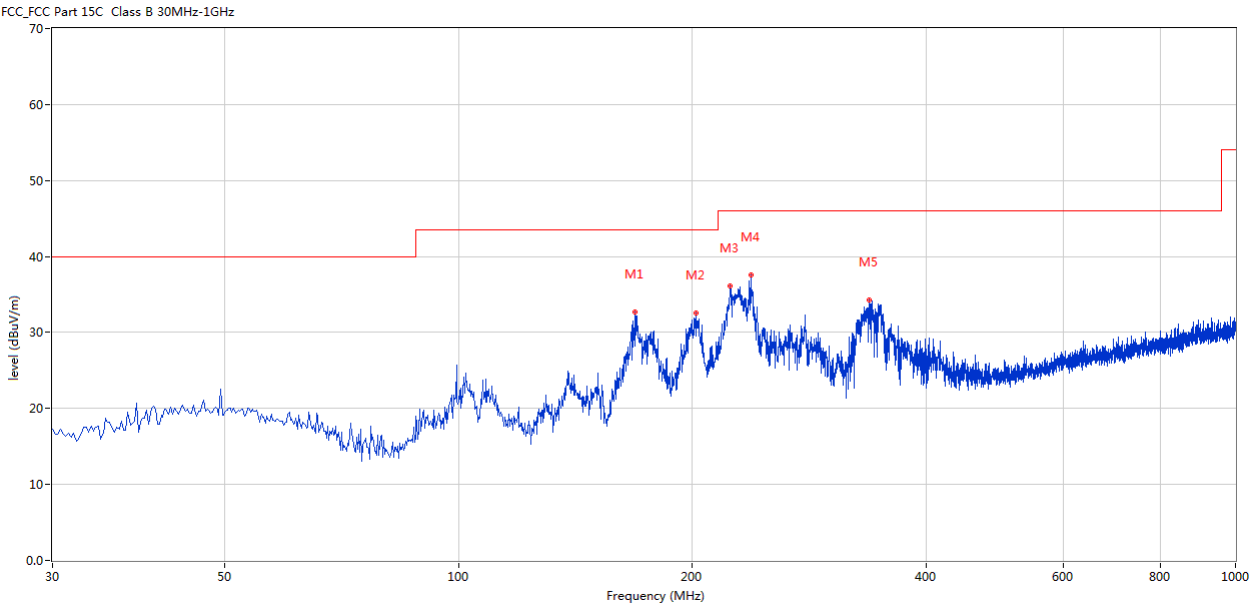
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	168.675	32.67	-16.12	43.5	-10.83	Peak	127.00	200	Horizontal	Pass
2	202.374	32.51	-13.39	43.5	-10.99	Peak	245.00	100	Horizontal	Pass
3	223.224	36.08	-13.17	46.0	-9.92	Peak	93.00	100	Horizontal	Pass
4	237.771	37.53	-12.44	46.0	-8.47	Peak	252.00	100	Horizontal	Pass
5	337.898	34.33	-9.79	46.0	-11.67	Peak	67.00	100	Horizontal	Pass

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

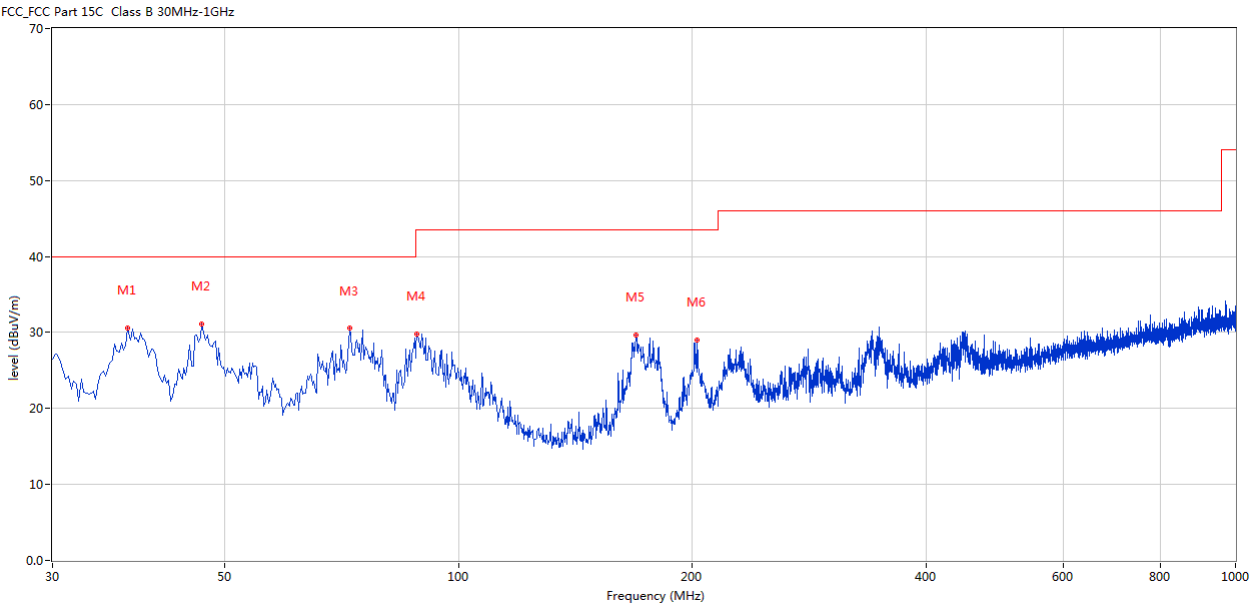
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.516	30.53	-12.95	40.0	-9.47	Peak	129.00	100	Vertical	Pass
2	46.728	31.08	-11.44	40.0	-8.92	Peak	269.00	100	Vertical	Pass
3	72.427	30.52	-16.69	40.0	-9.48	Peak	0.00	100	Vertical	Pass
4	88.428	29.82	-15.55	43.5	-13.68	Peak	203.00	100	Vertical	Pass
5	169.160	29.71	-16.10	43.5	-13.79	Peak	0.00	100	Vertical	Pass
6	202.859	29.00	-13.42	43.5	-14.50	Peak	166.00	100	Vertical	Pass

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

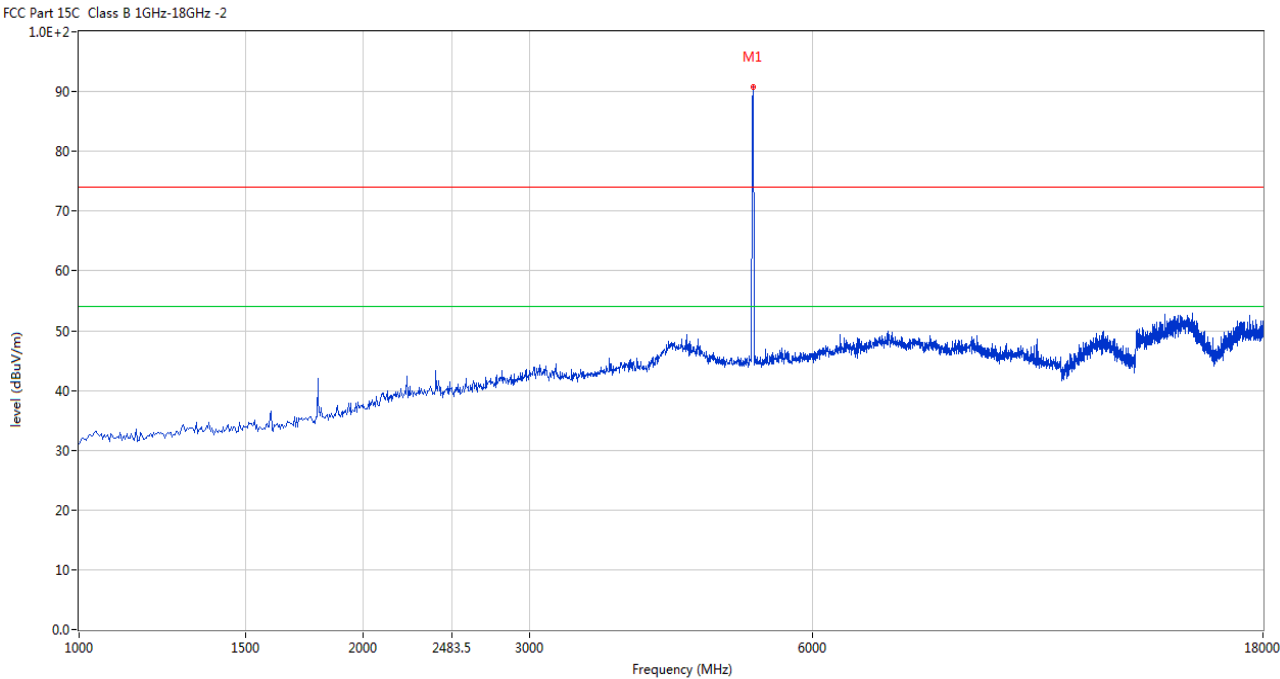
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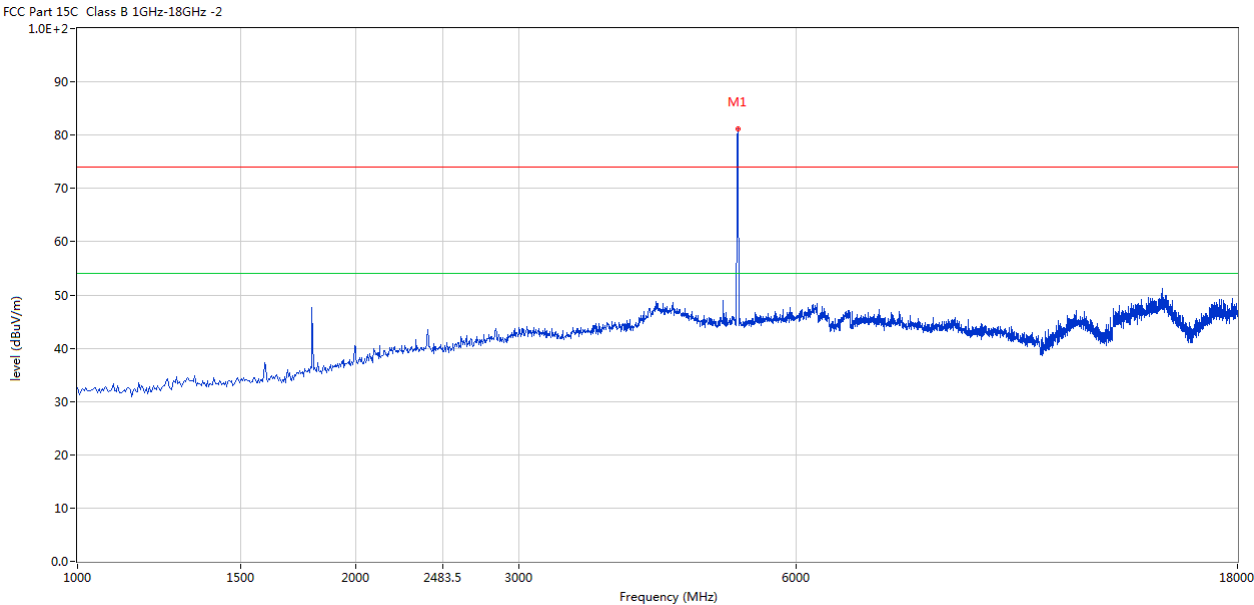


Please refer to the following test plots for details:

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



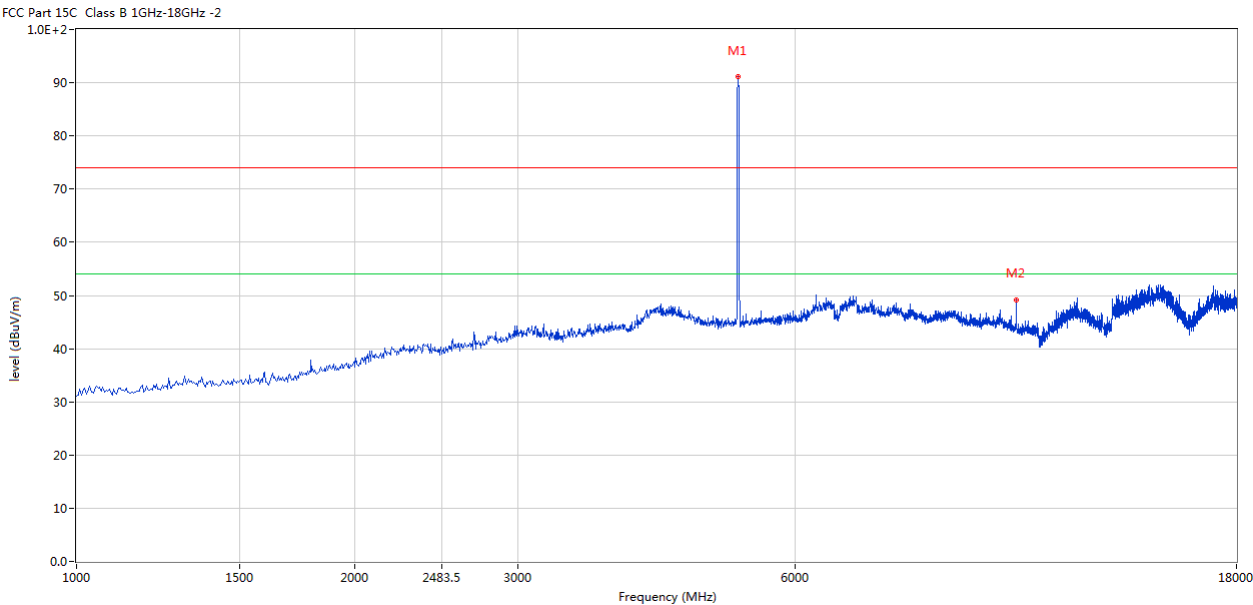
**CH36 for 11a at 6Mbps: Vertical**



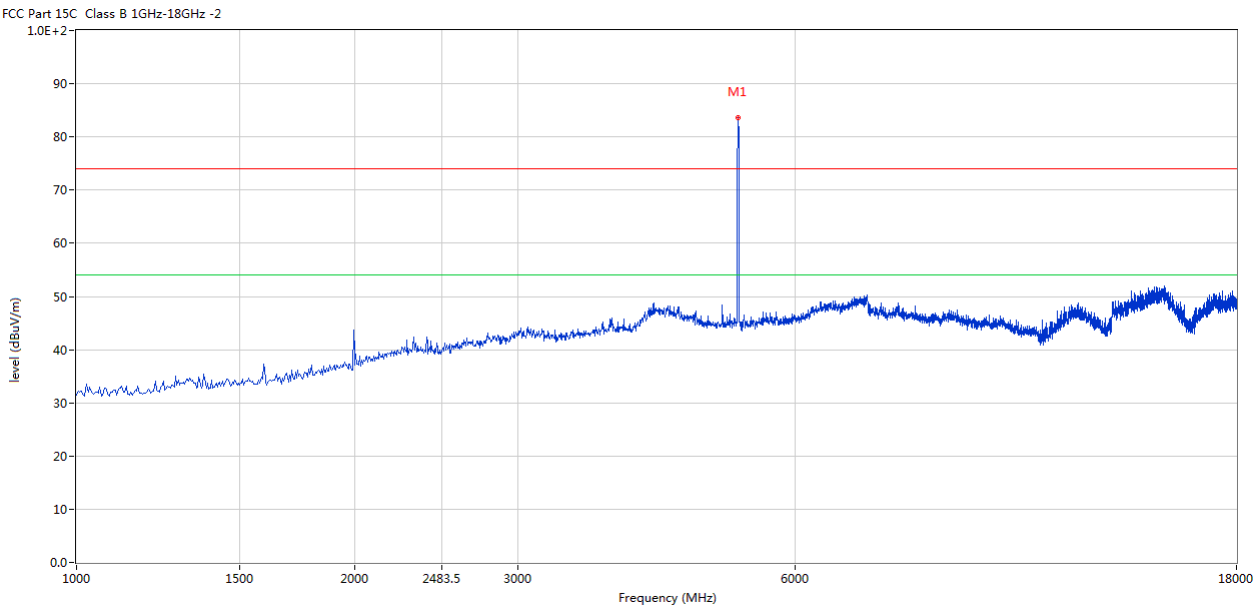
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CH40 for 11a at 6Mbps: Horizontal



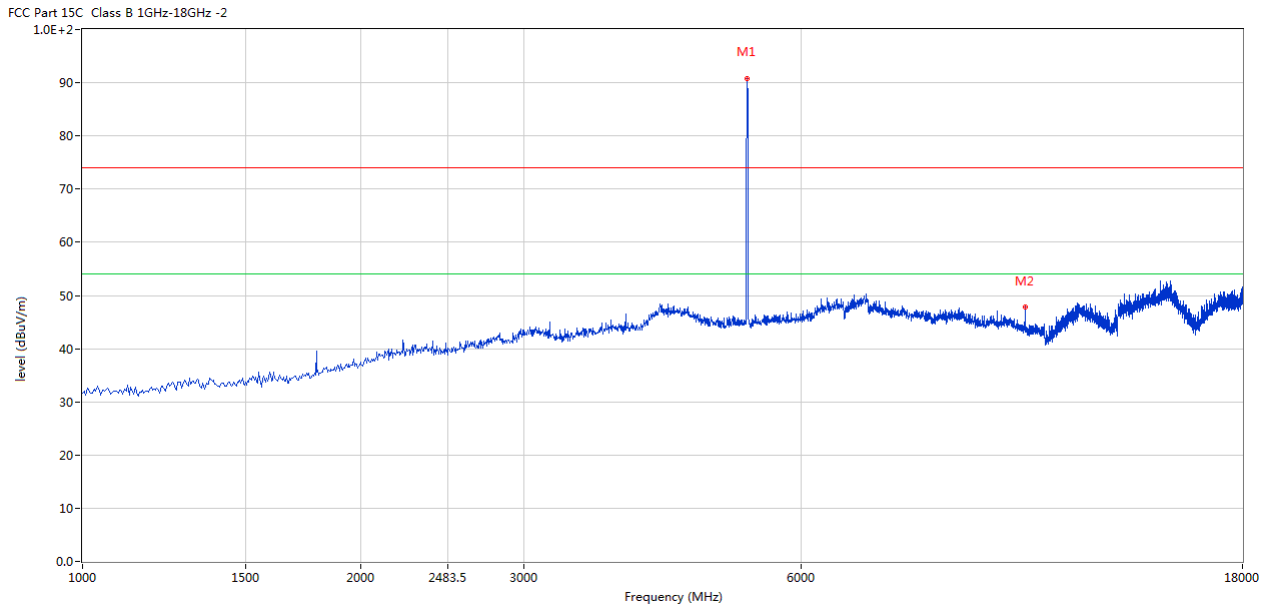
CH40 for 11a at 6Mbps: Vertical



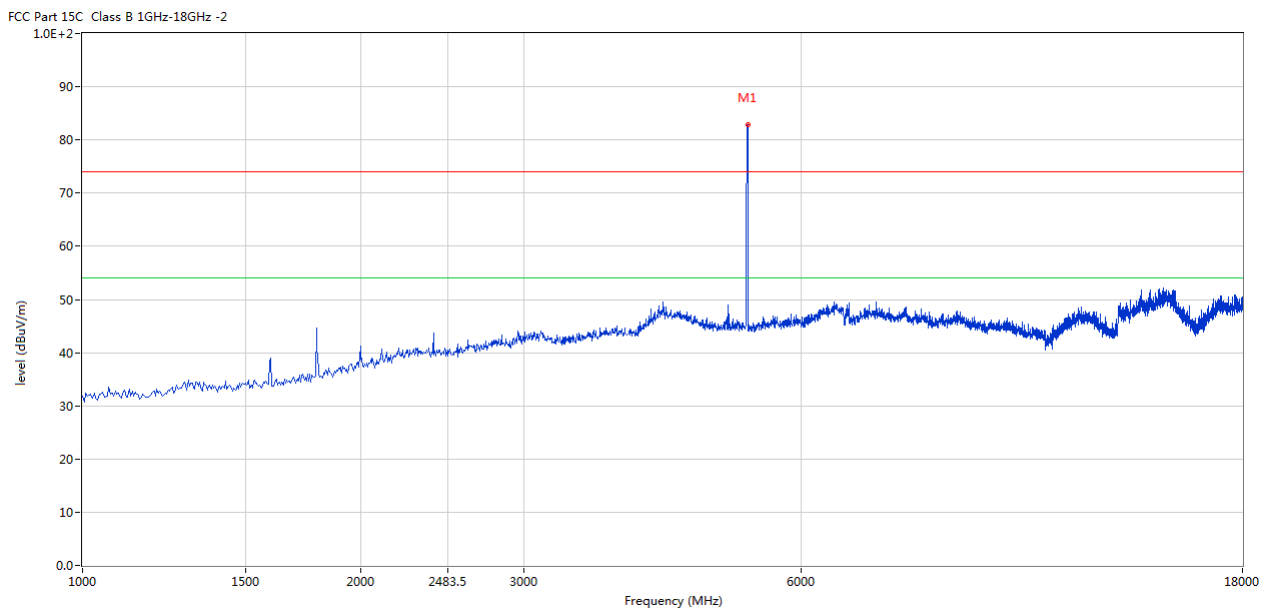
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### CH48 for 11a at 6Mbps: Horizontal



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



Note: 1. For radiated Emissions from 18-40GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

2. 802.11a is the worst case.

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.1		
Polarity	Horizontal		--	--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.85V
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	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  $\text{E[dB}\mu\text{V/m]} = 42.6 \text{ dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5250	PK (dBμV/m)	49.3 (PK)	56% RH
	EIRP (dBm)	-45.9	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 49.3\text{dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.3 - 95.2 = -45.9\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5250	PK (dBμV/m)	46.9 (PK)	56% RH
	EIRP (dBm)	-48.3	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 46.9\text{dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.9 - 95.2 = -48.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	53.6 (PK)	56% RH
	EIRP (dBm)	-41.6	Detector
Polarity	Horizontal		PK
			Limit
			-17dBm/MHz
			--
			--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	47.8(PK)	56% RH
	EIRP (dBm)	-47.4	Detector
Polarity	Vertical		PK
			Limit
			-17dBm/MHz
			--
			--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 47.8 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.8 - 95.2 = -47.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 161 (5805MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	55.1 (PK)	56% RH
	EIRP (dBm)	-40.1	Detector
Polarity	Horizontal		PK
			Limit
			-17dBm/MHz
		--	--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 55.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 55.1 - 95.2 = -40.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode:
Mode	Keeping Transmitting		Channel 161 (5805MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	50.3 (PK)	56% RH
	EIRP (dBm)	-44.9	Detector
Polarity	Vertical		PK
			Limit
			-17dBm/MHz
		--	--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 50.3 \text{ dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
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	Horizontal		--	--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	43.0 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.2		
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  $\text{E[dB}\mu\text{V/m]} = 43.0 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.0 - 95.2 = -52.2 \text{ dBm}$$

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	TQSky Tbox		Test Mode: Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	47.9(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-47.3	
Polarity	Horizontal		

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 47.9 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.9 - 95.2 = -47.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode: Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5250	PK (dBμV/m)	44.7(PK)	Limit -27dBm/MHz
	EIRP (dBm)	-50.5	
Polarity	Vertical		--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	50.4 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.8		
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:

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 50.4\text{dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	46.6 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.6		
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:

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 46.6\text{dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.6 - 95.2 = -48.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 161 (5805MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	50.3 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.9		
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  $\text{E[dB}\mu\text{V/m]} = 50.3\text{dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 161 (5805MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.3		
Polarity	Horizontal		--	--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
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	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  $\text{E[dB}\mu\text{V/m]} = 42.6 \text{ dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	48.3(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.9		
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  $\text{E[dB}\mu\text{V/m]} = 48.3\text{dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.3 - 95.2 = -46.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.8(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.4		
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  $\text{E[dB}\mu\text{V/m]} = 45.8\text{dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.8 - 95.2 = -49.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	TQSky Tbox		Test Mode: Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	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:

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

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

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode: Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	46.7(PK)	Limit -17dBm/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:

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	53.9 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.3		
Polarity	Horizontal		--	--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 53.9 \text{ dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	47.1(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.1		
Polarity	Vertical		--	--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 47.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.1 - 95.2 = -48.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	TQSky Tbox		Test Mode: Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	47.7 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-47.5	
Polarity	Horizontal		--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 47.7 \text{ dB}\mu\text{V/m}$ ,

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

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	TQSky Tbox		Test Mode: Channel 42 (5210MHz)- 11ac/VHT80
Mode	Keeping Transmitting		Input Voltage DC3.85V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	45.3 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-49.9	
Polarity	Vertical		--

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

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

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

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

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 155 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	52.5 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-42.7		
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  $\text{E[dB}\mu\text{V/m]} = 52.5 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.5 - 95.2 = -42.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	TQSky Tbox		Test Mode:	Channel 157 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.85V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	47.1(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.1		
Polarity	Vertical		--	--

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

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

For Example, if  $\text{E[dB}\mu\text{V/m]} = 47.1 \text{ dB}\mu\text{V/m}$ ,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.1 - 95.2 = -48.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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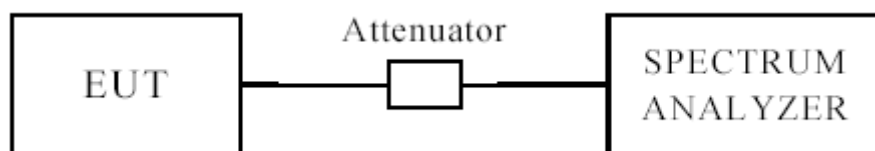
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## 7.0 Emission Bandwidth

### 7.1 Test Setup



### 7.3 Test Procedure for Emission Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW > RBW
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

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

### 7.5 Test Procedure for 99% Bandwidth

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

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## 7.6 Test Result

EUT	TQSky Tbox			Model	TBOX
Mode	802.11a			Input Voltage	DC3.85V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
36	5180	6	22.30	--	Pass
40	5200	6	22.48	--	Pass
48	5240	6	22.48	--	Pass
<b>99% Bandwidth</b>					
36	5180	6	16.89	--	Pass
40	5200	6	16.89	--	Pass
48	5240	6	16.89	--	Pass

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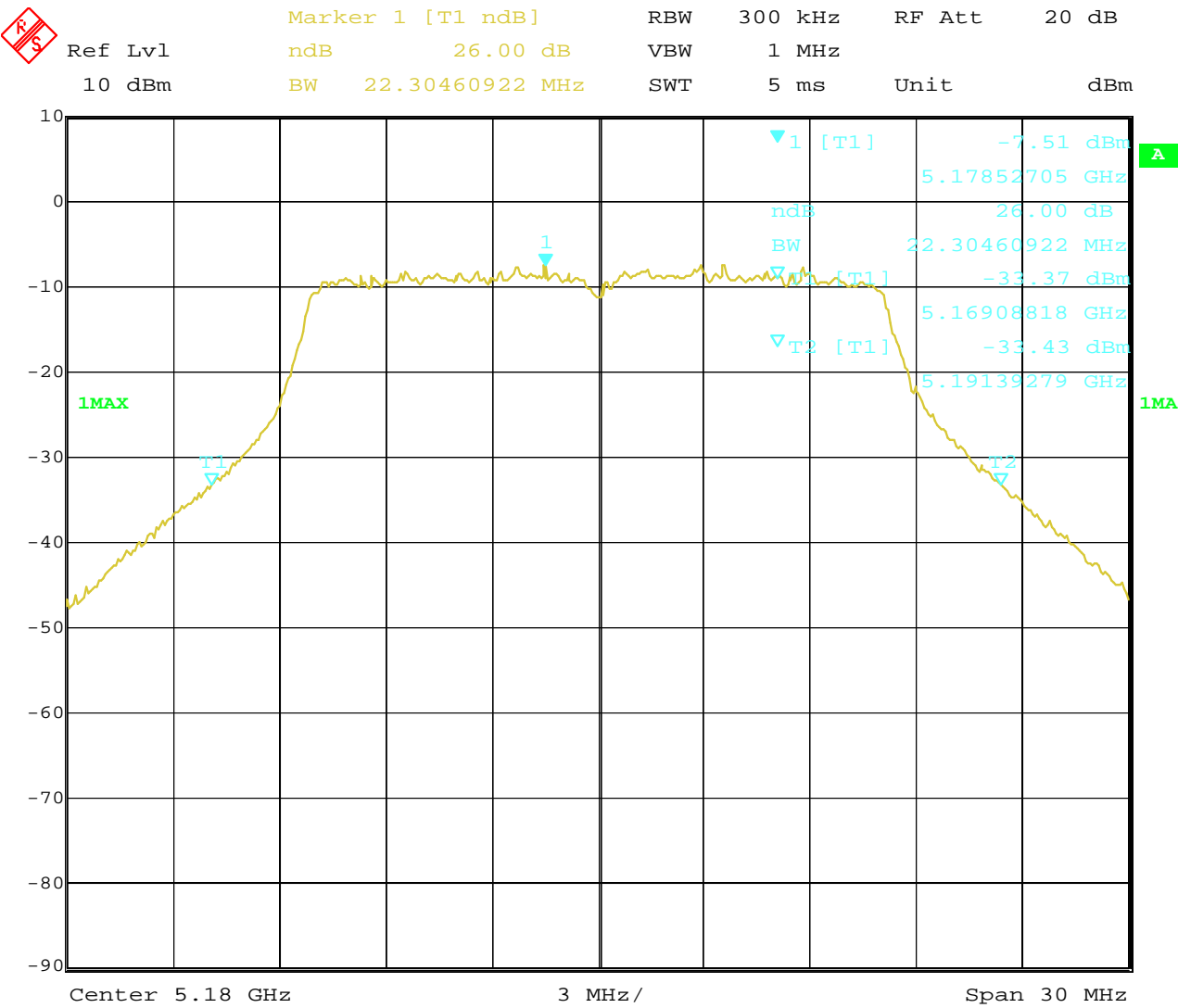
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Figure:

26dB Bandwidth

Channel 36

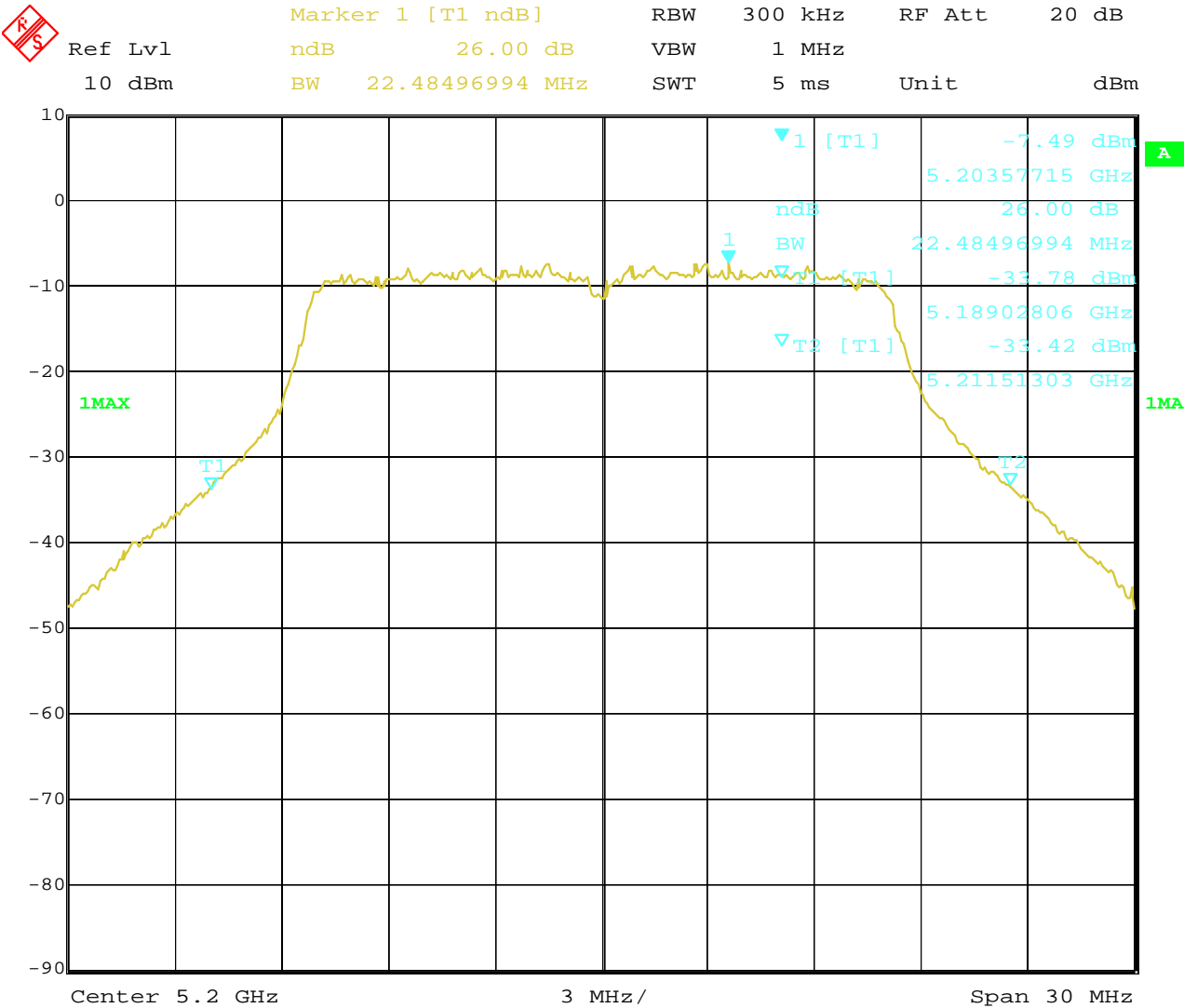


Date: 25.JUN.2022 13:54:14

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Channel 40

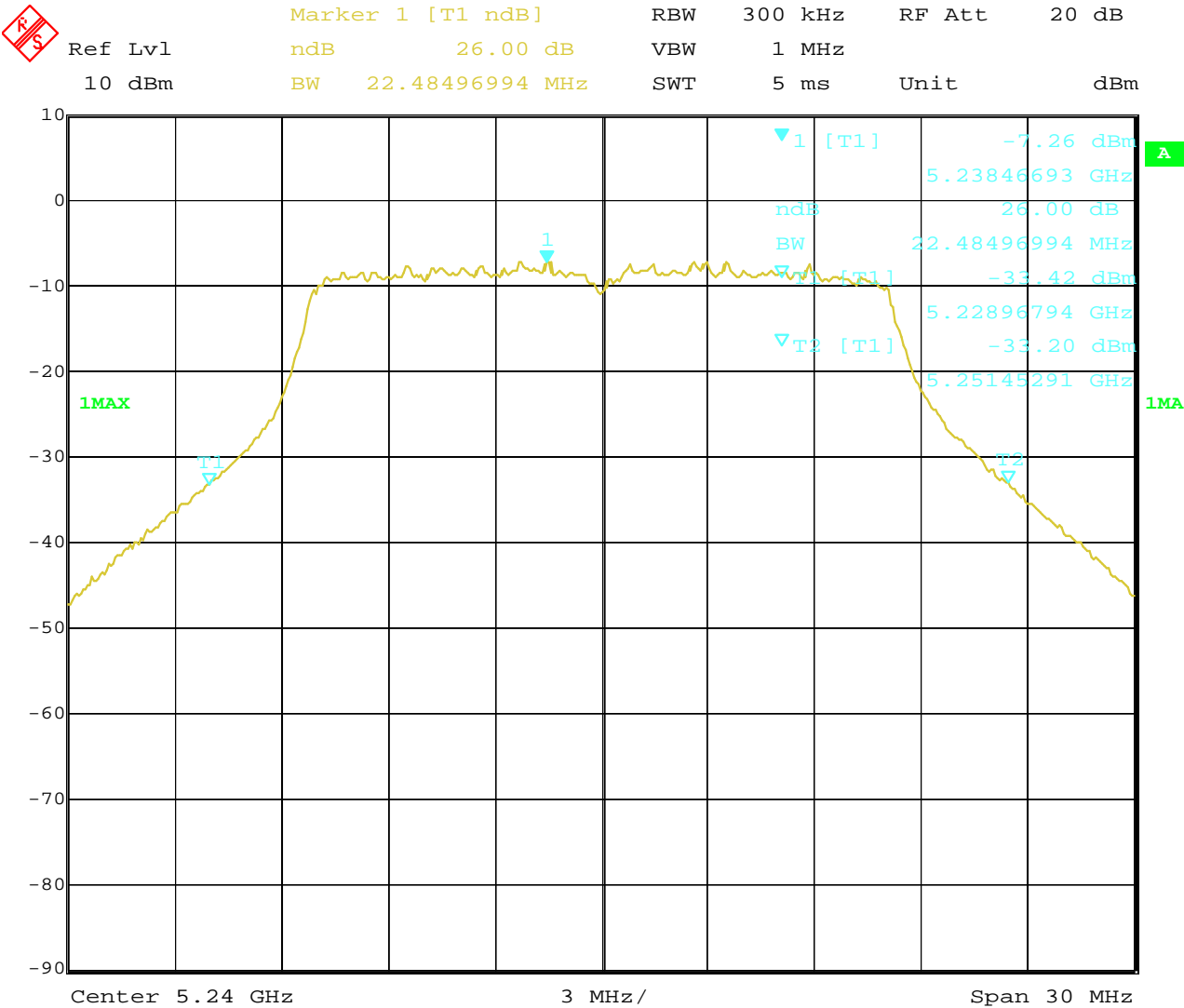


Date: 25.JUN.2022 13:55:29

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Channel 48



Date: 25.JUN.2022 13:56:37

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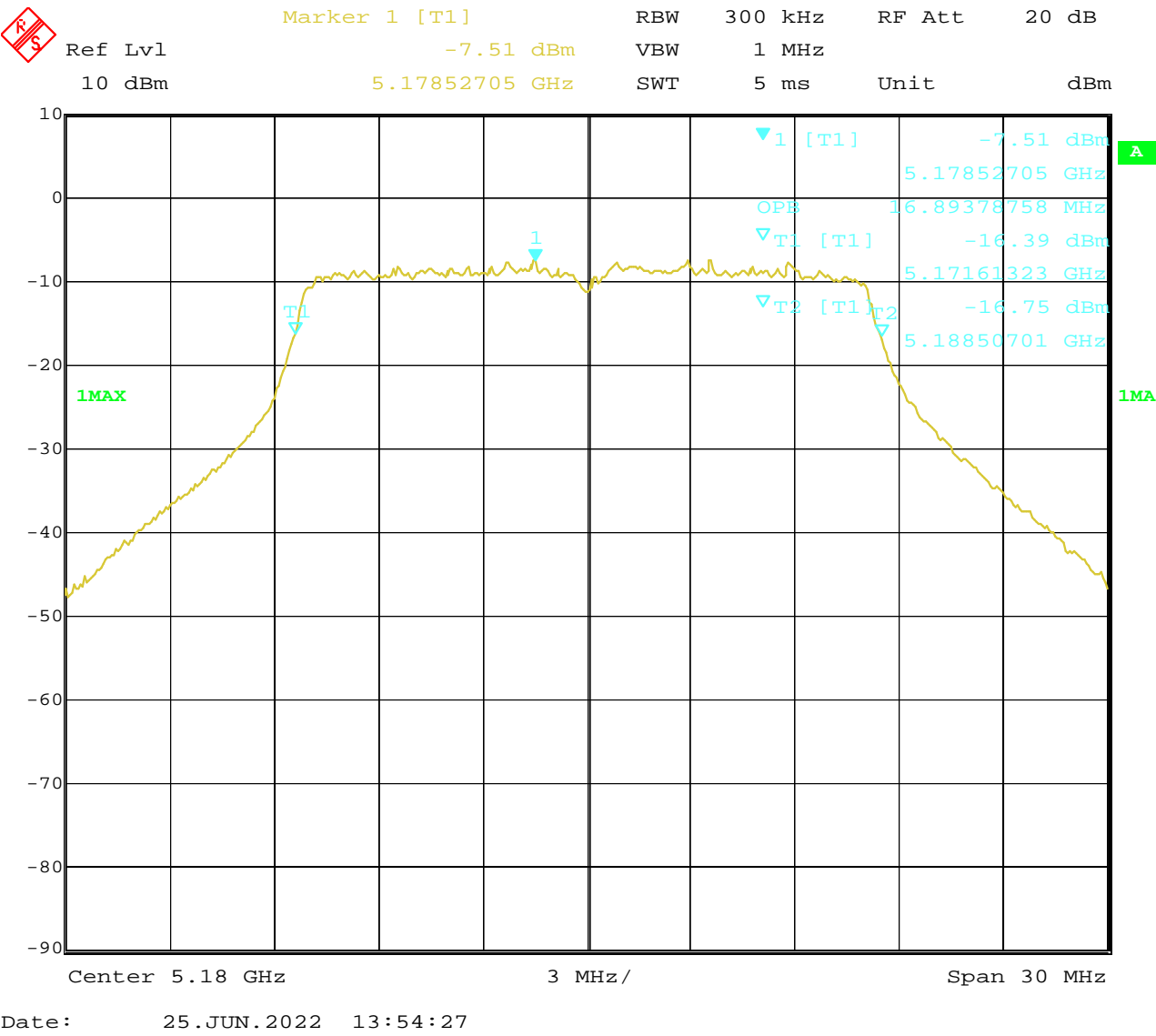




Test Figure:

99% Bandwidth

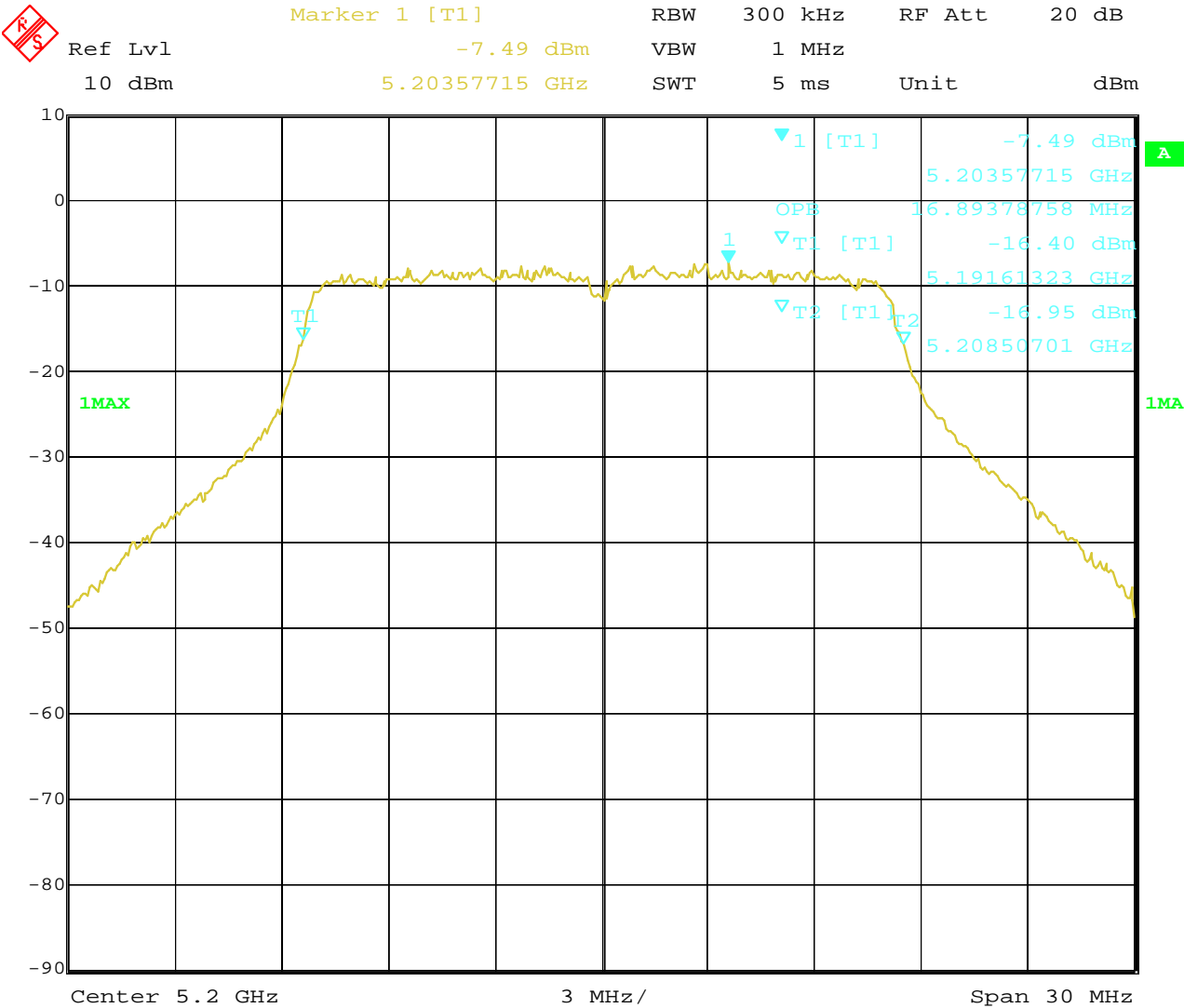
Channel 36



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

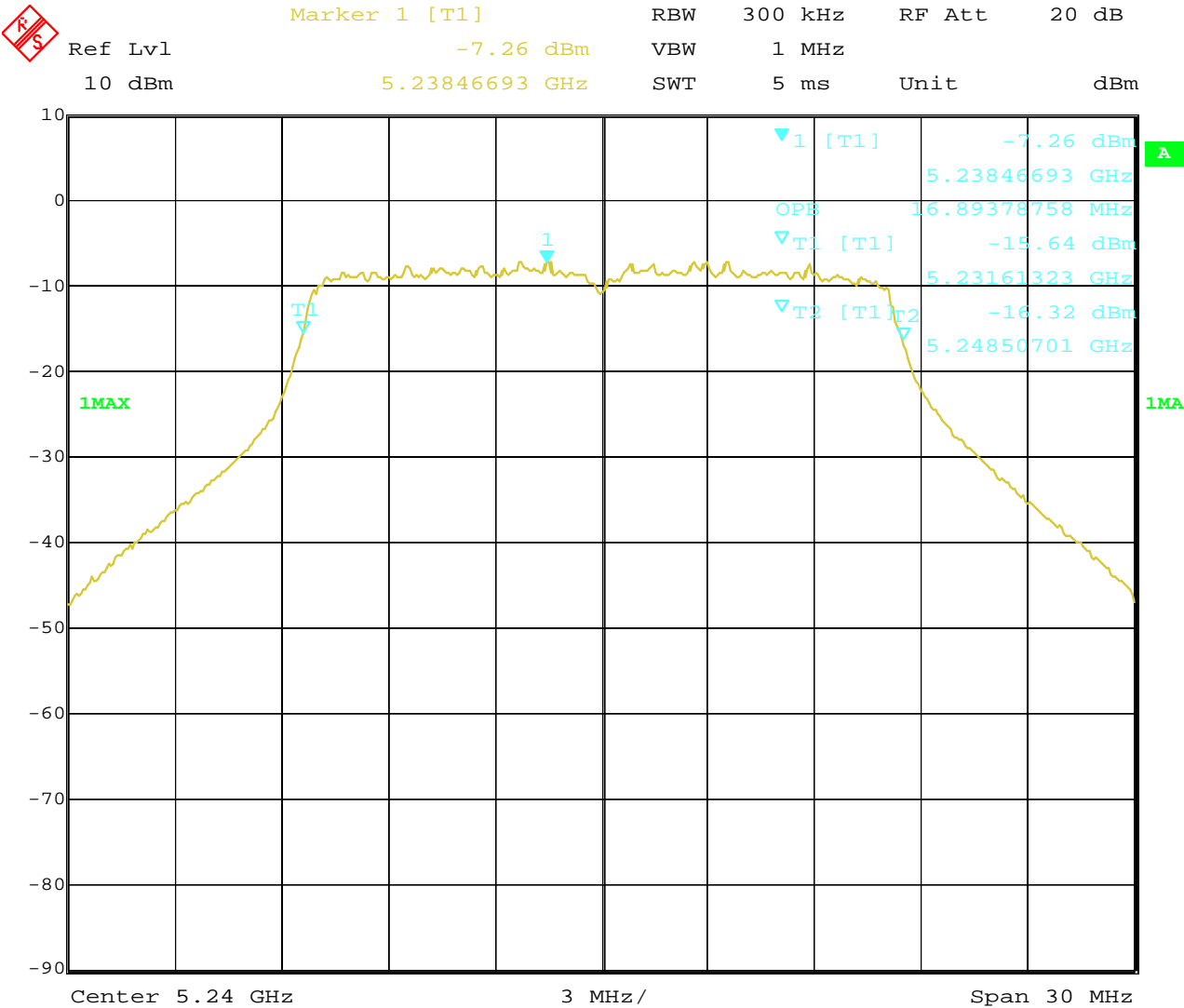


Date: 25.JUN.2022 13:55:22

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Channel 48



Date: 25.JUN.2022 13:56:45

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11a		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
149	5745	6	22.48	--	Pass
153	5765	6	22.30	--	Pass
161	5805	6	22.55	--	Pass
<b>6dB Bandwidth</b>					
149	5745	6	16.38	0.5	Pass
153	5765	6	16.37	0.5	Pass
161	5805	6	16.35	0.5	Pass
<b>99% Bandwidth</b>					
149	5745	6	16.89	--	Pass
153	5765	6	16.89	--	Pass
161	5805	6	16.89	--	Pass

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

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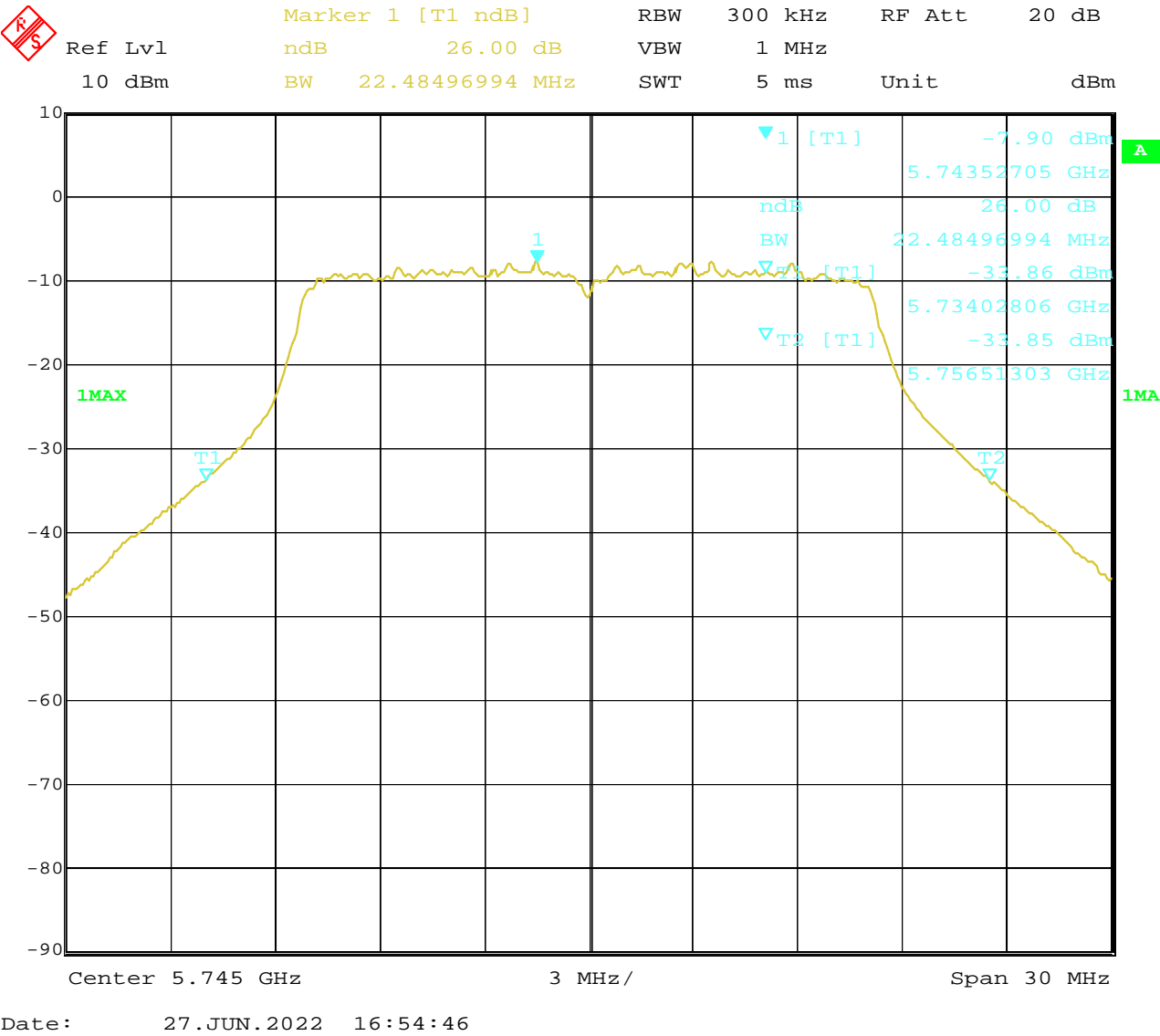
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Test Figure:

26dB Bandwidth

Channel 149

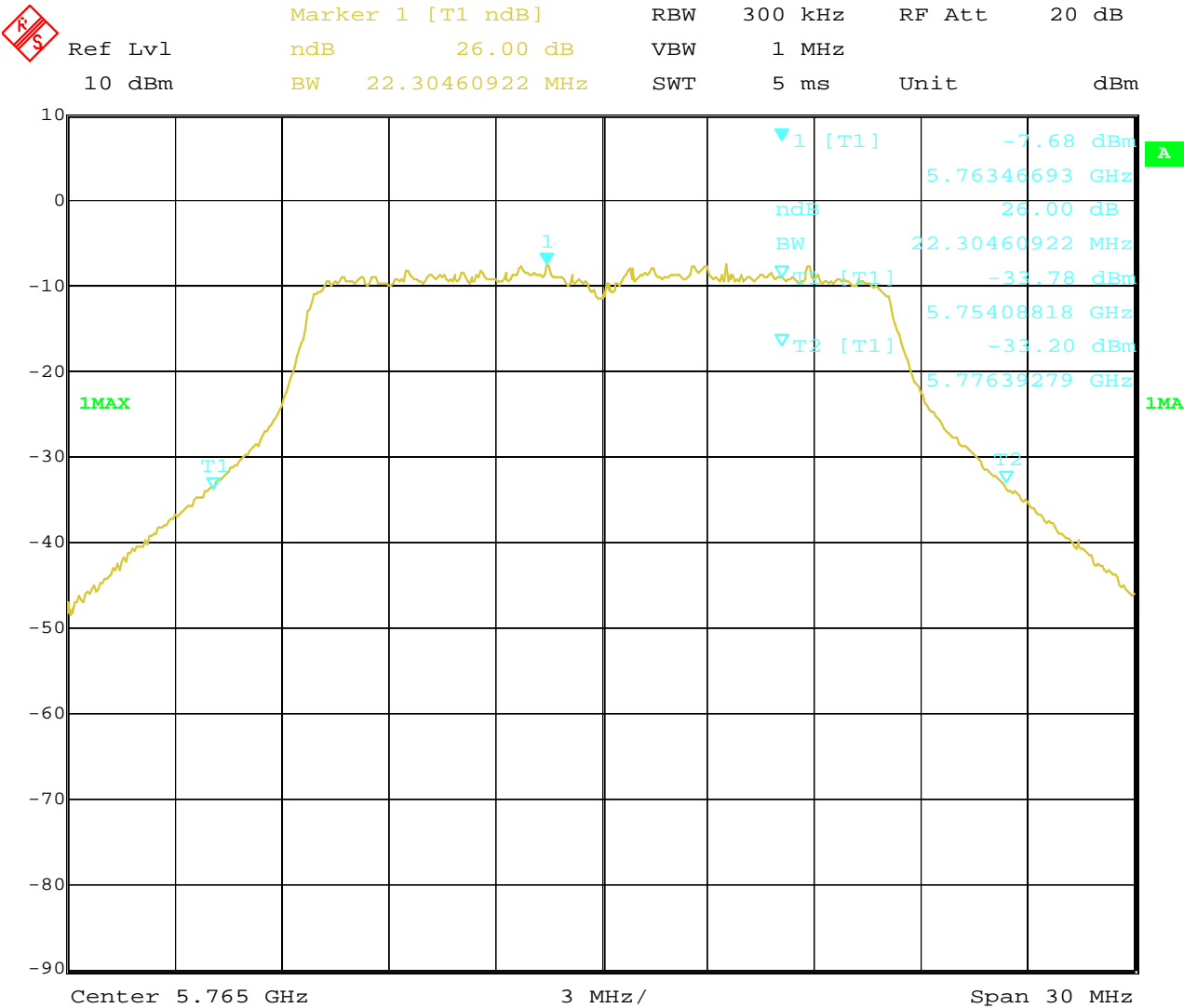


Date: 27.JUN.2022 16:54:46

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Channel 153



Date: 27.JUN.2022 16:50:25

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discussion or correspondence with any third party concerning the contents of the report.

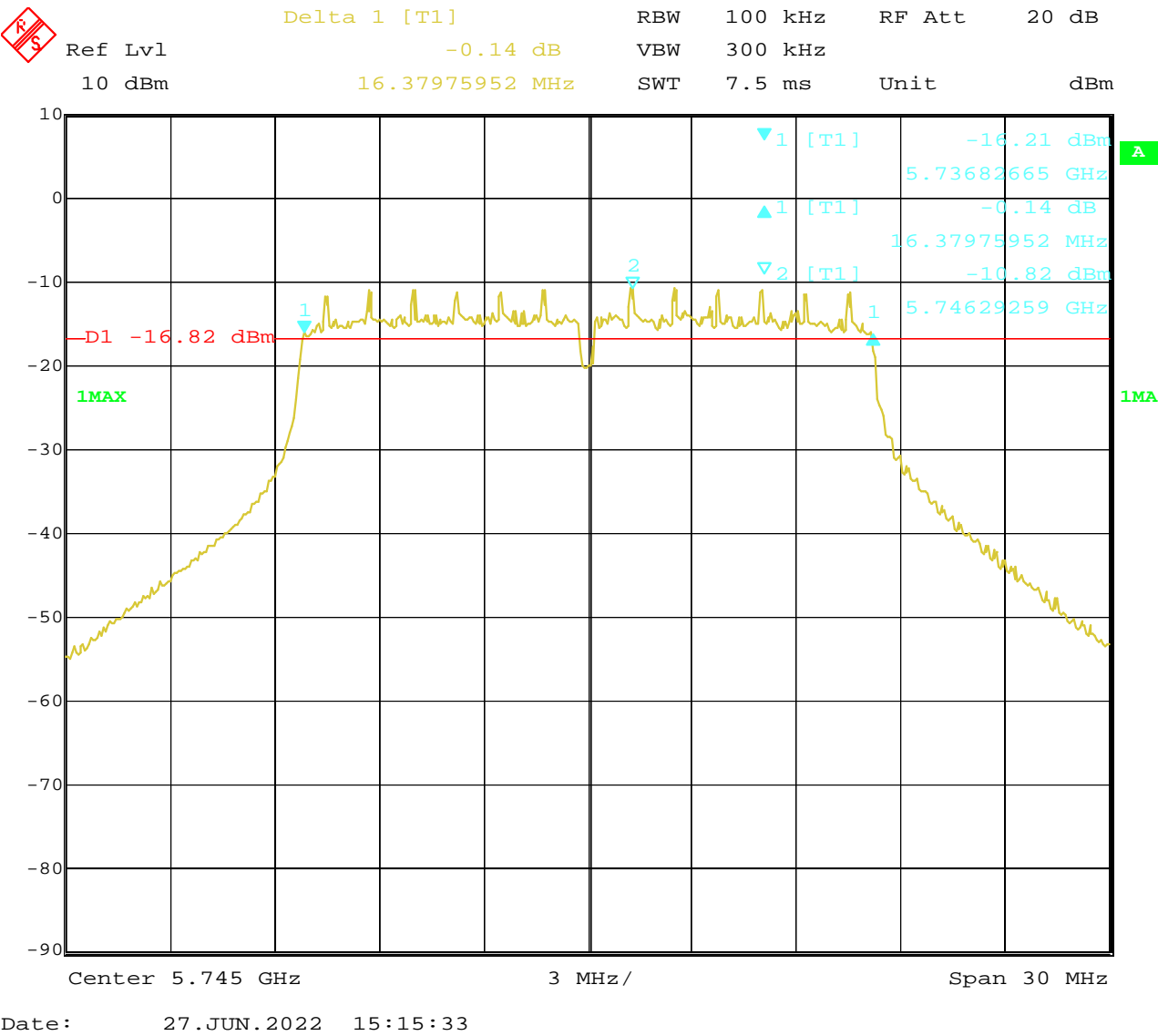
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Test Figure:

6dB Bandwidth

Channel 149



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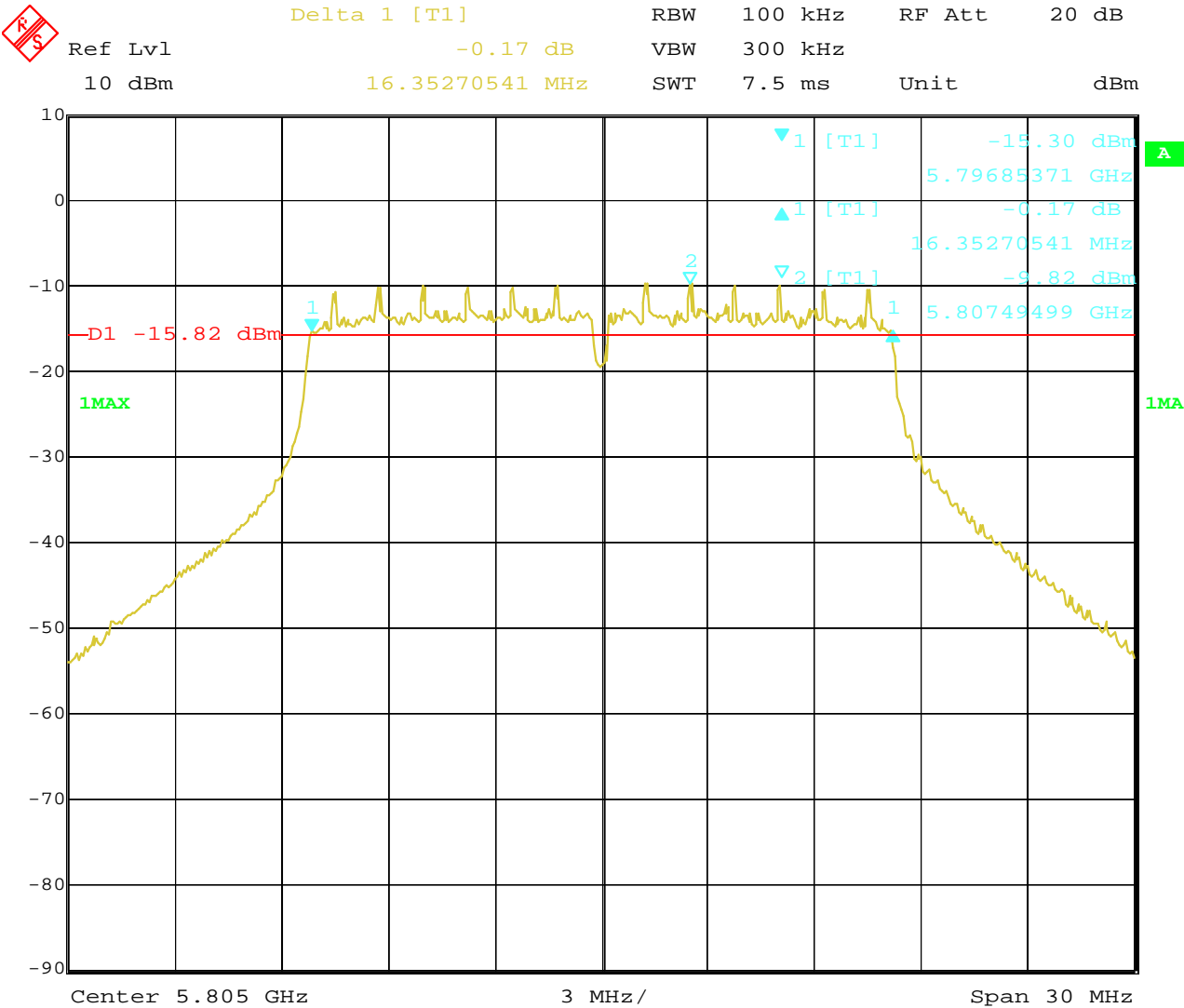


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Channel 161



Date: 27.JUN.2022 15:46:33

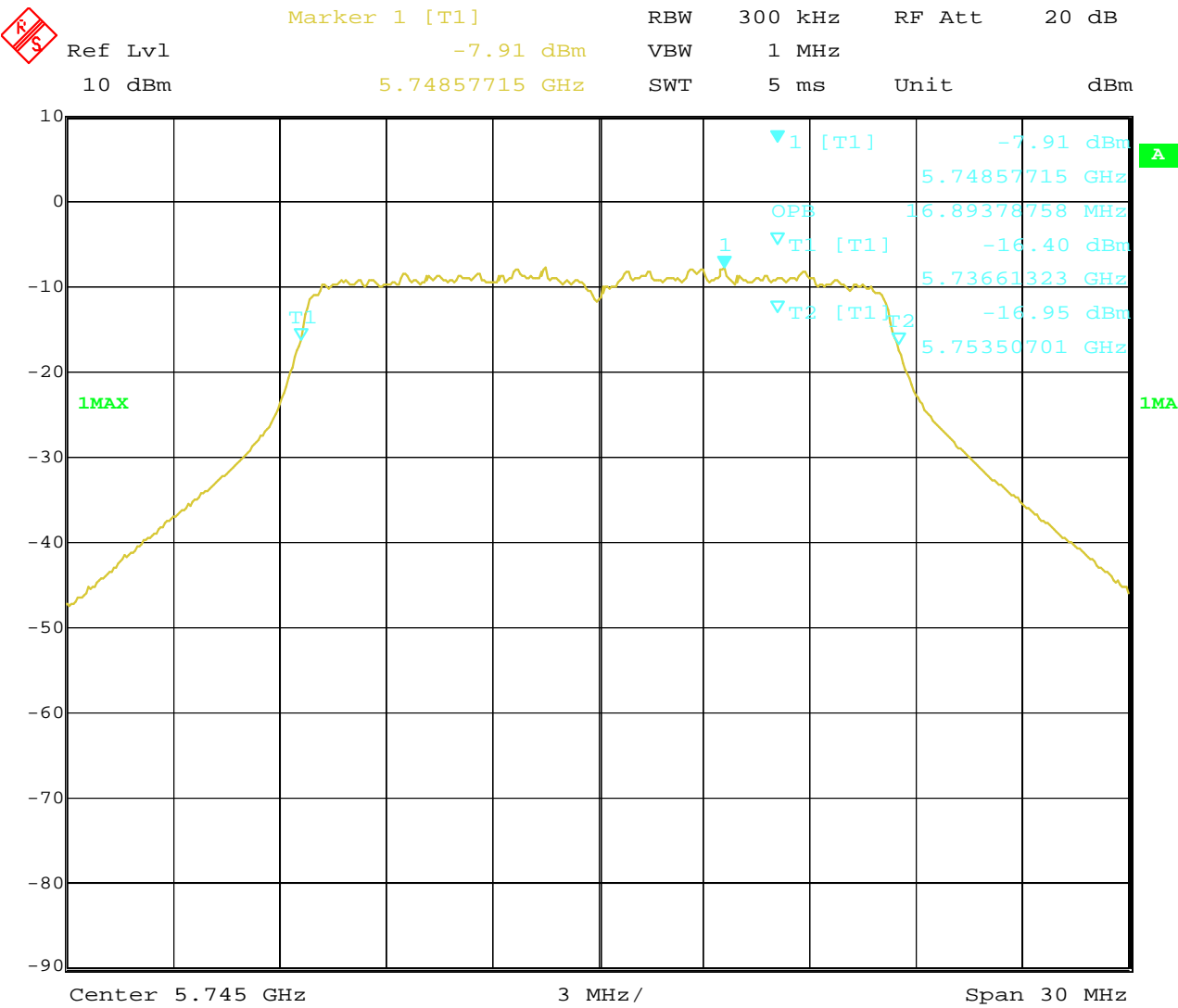
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Test Figure:

99% Bandwidth

Channel 149

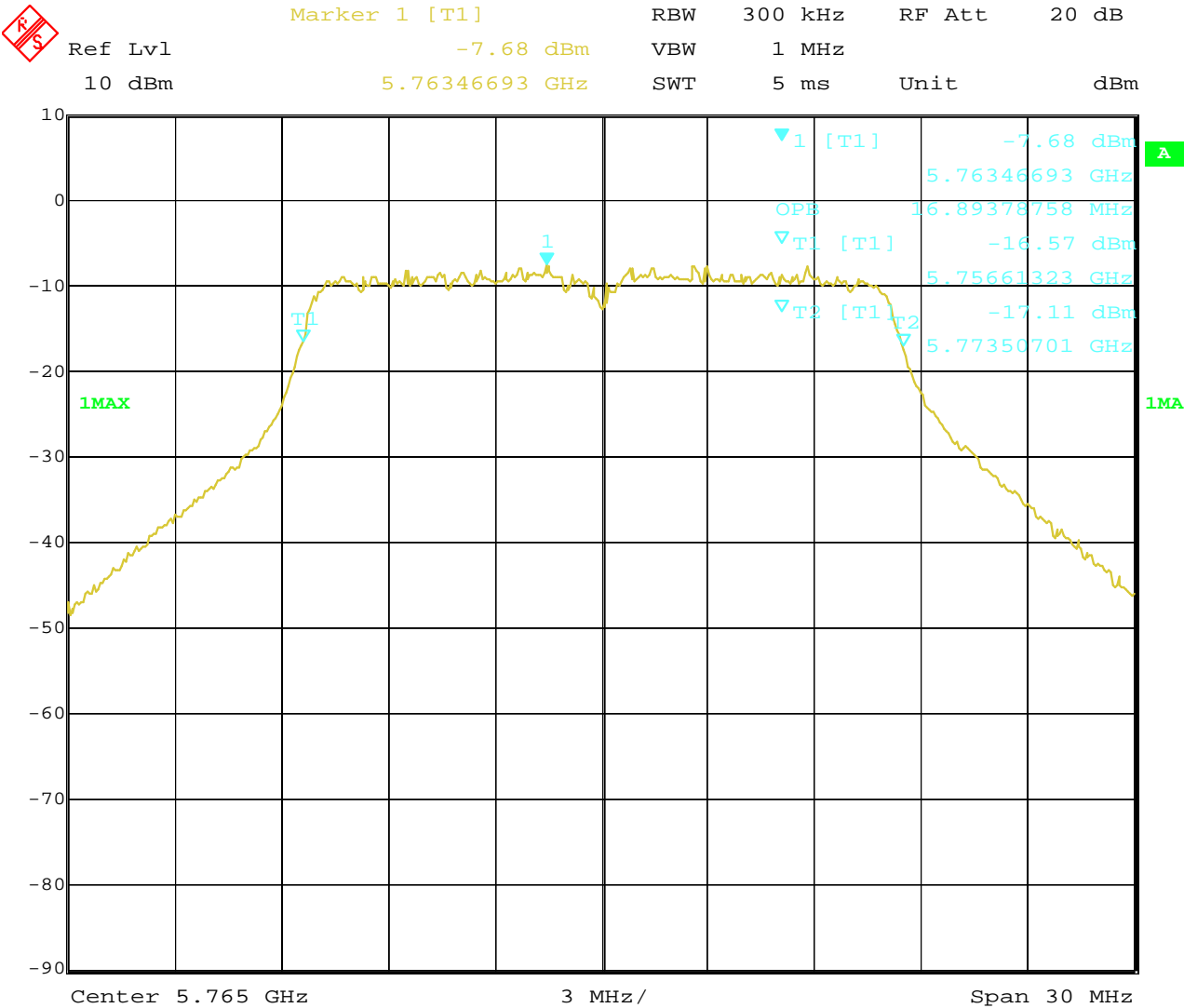


Date: 27.JUN.2022 16:48:58

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Channel 153

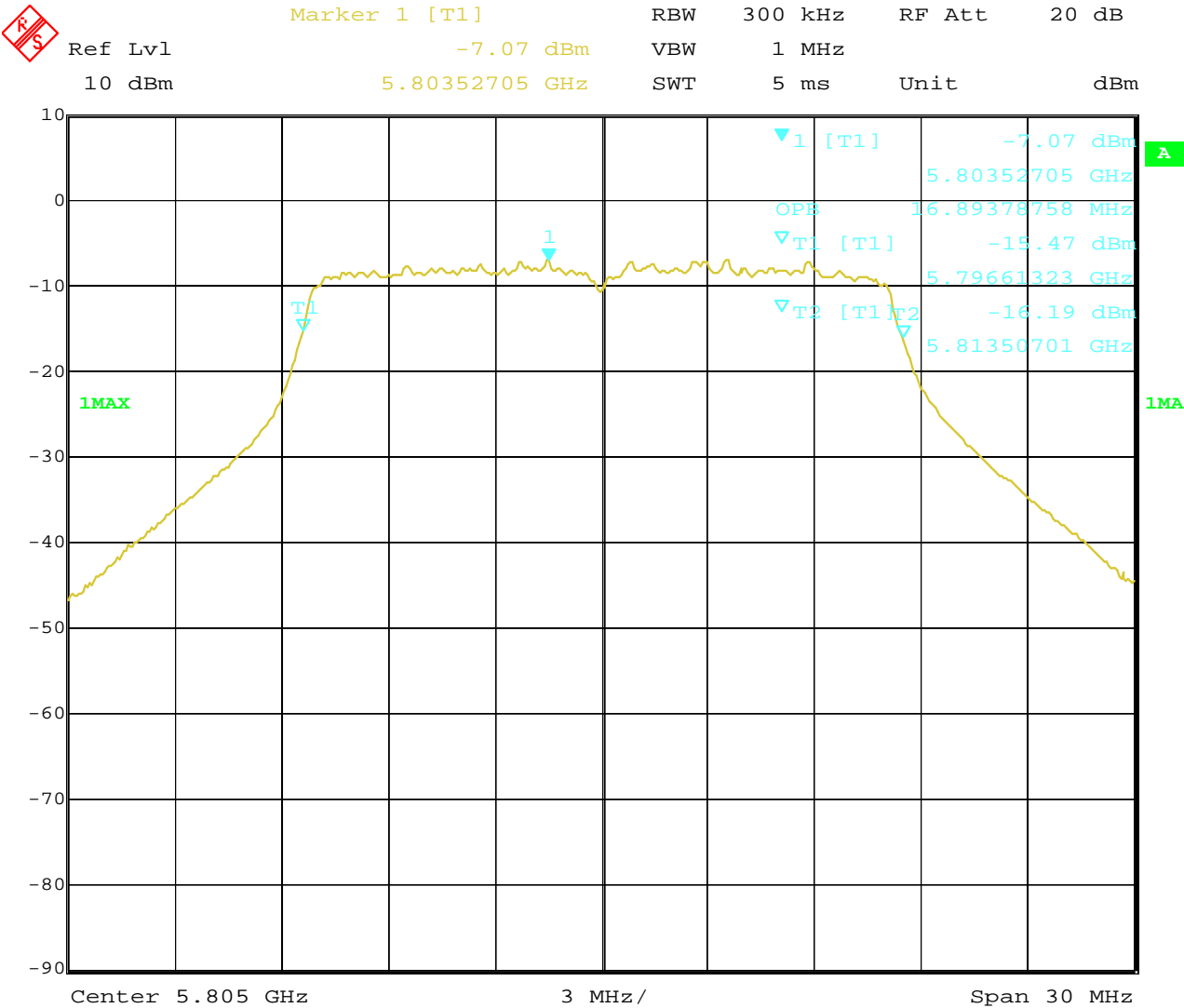


Date: 27.JUN.2022 16:50:07

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Channel 161



Date: 27.JUN.2022 16:57:58

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT20		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
36	5180	mcs0	23.09	--	Pass
40	5200	mcs0	23.21	--	Pass
48	5240	mcs0	23.09	--	Pass
<b>99% Bandwidth</b>					
36	5180	mcs0	18.04	--	Pass
40	5200	mcs0	18.04	--	Pass
48	5240	mcs0	18.04	--	Pass

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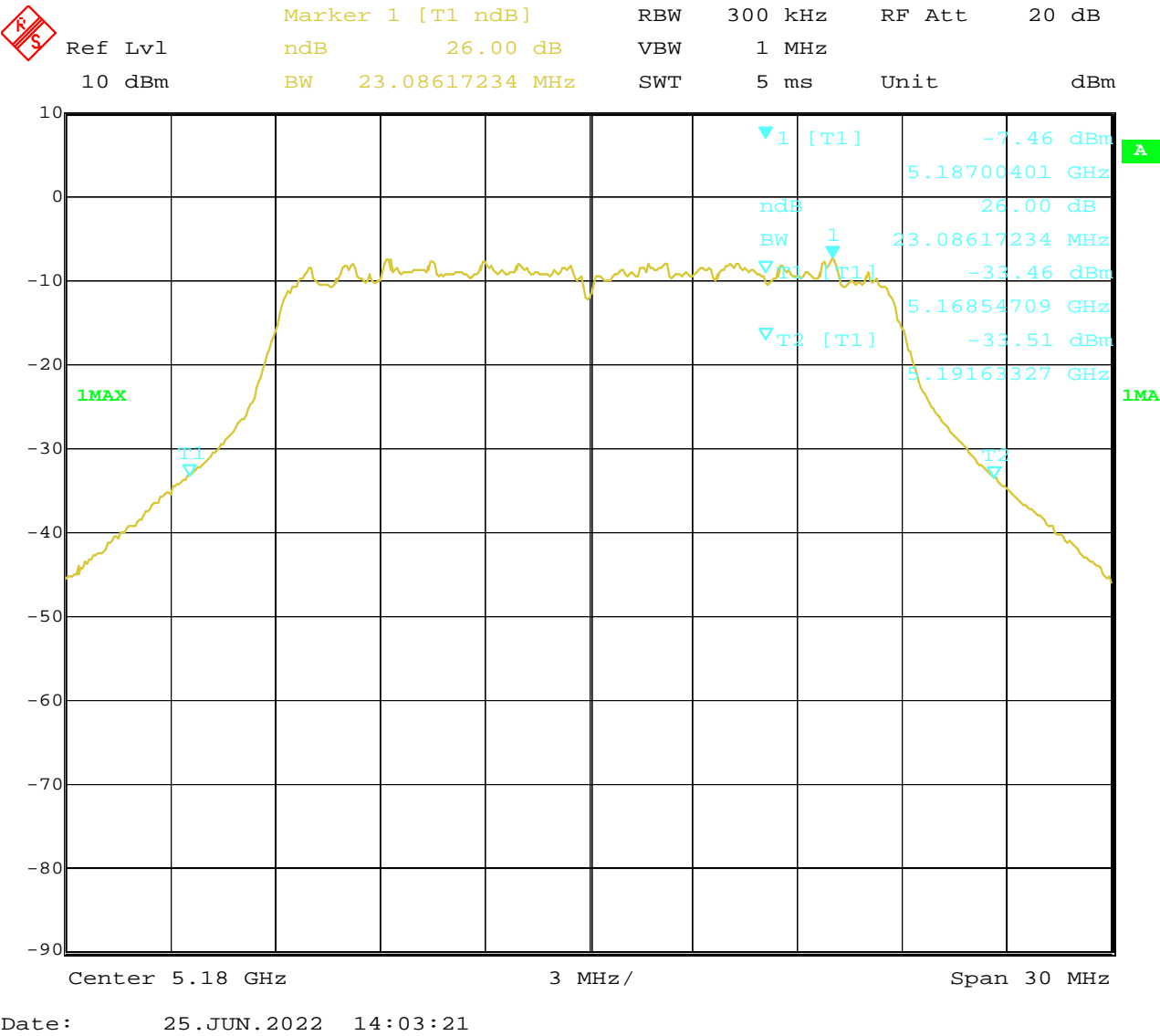
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

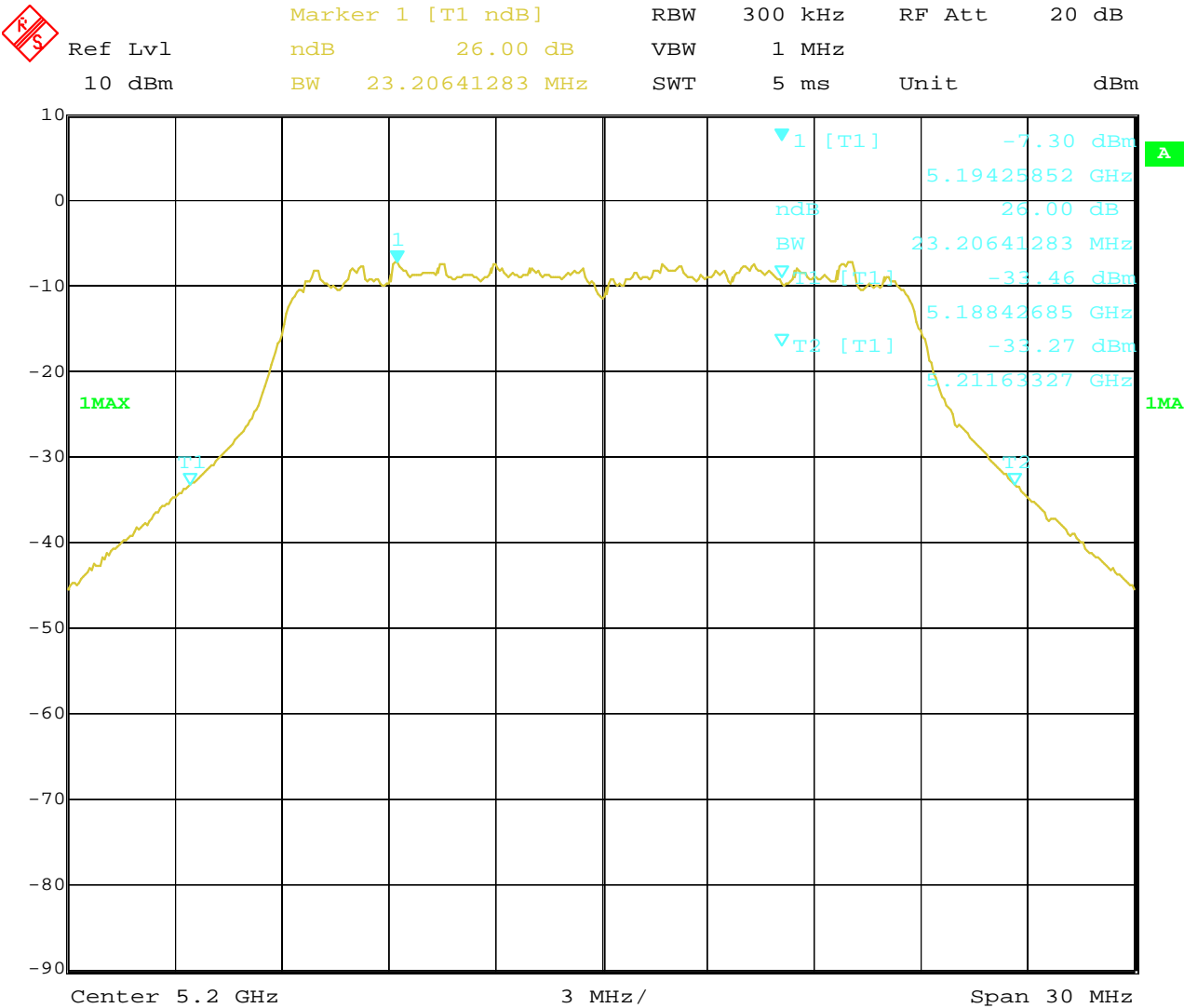
Channel 36



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Channel 40



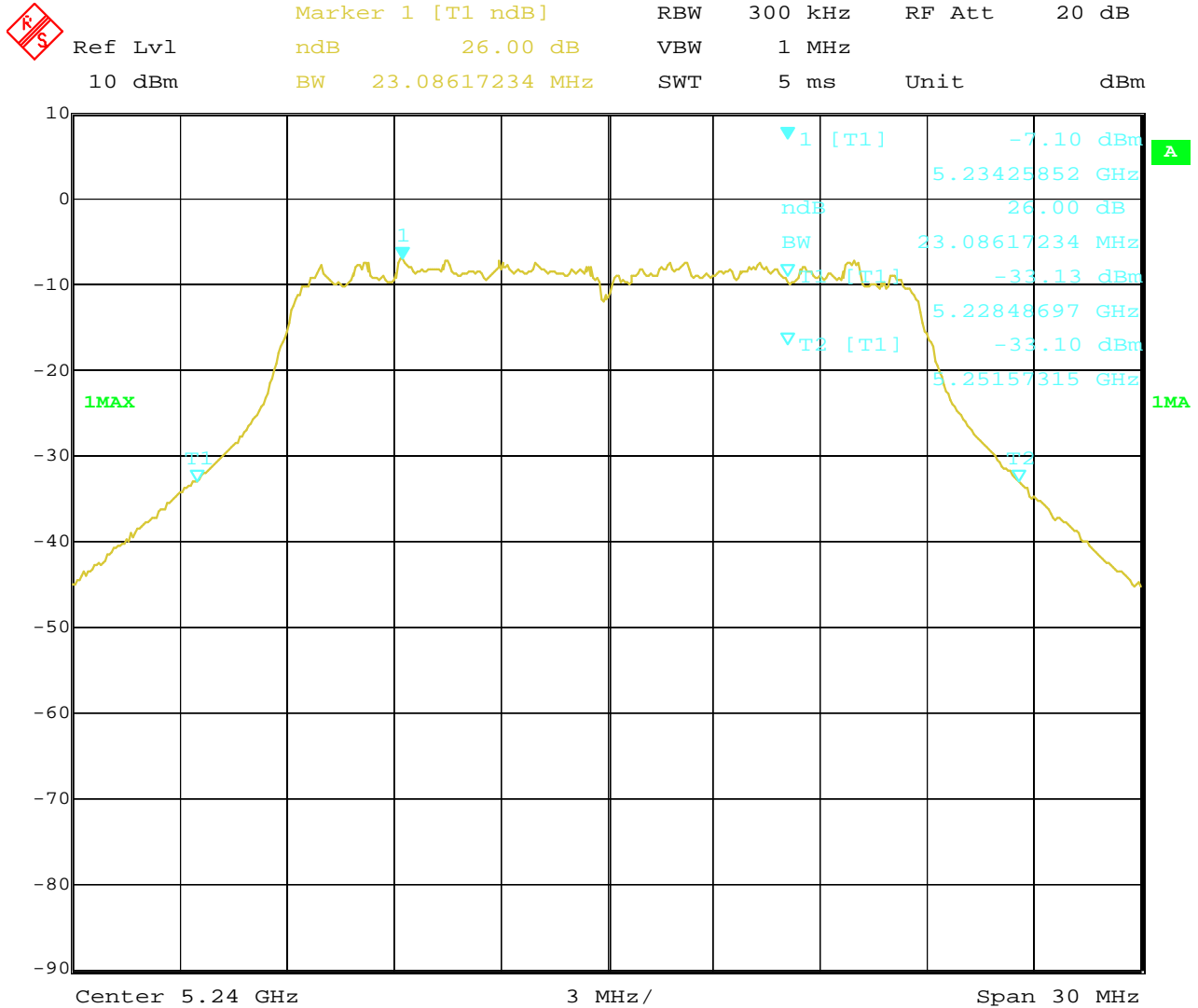
Date: 25.JUN.2022 14:00:35

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Channel 48



Date: 25.JUN.2022 13:58:54

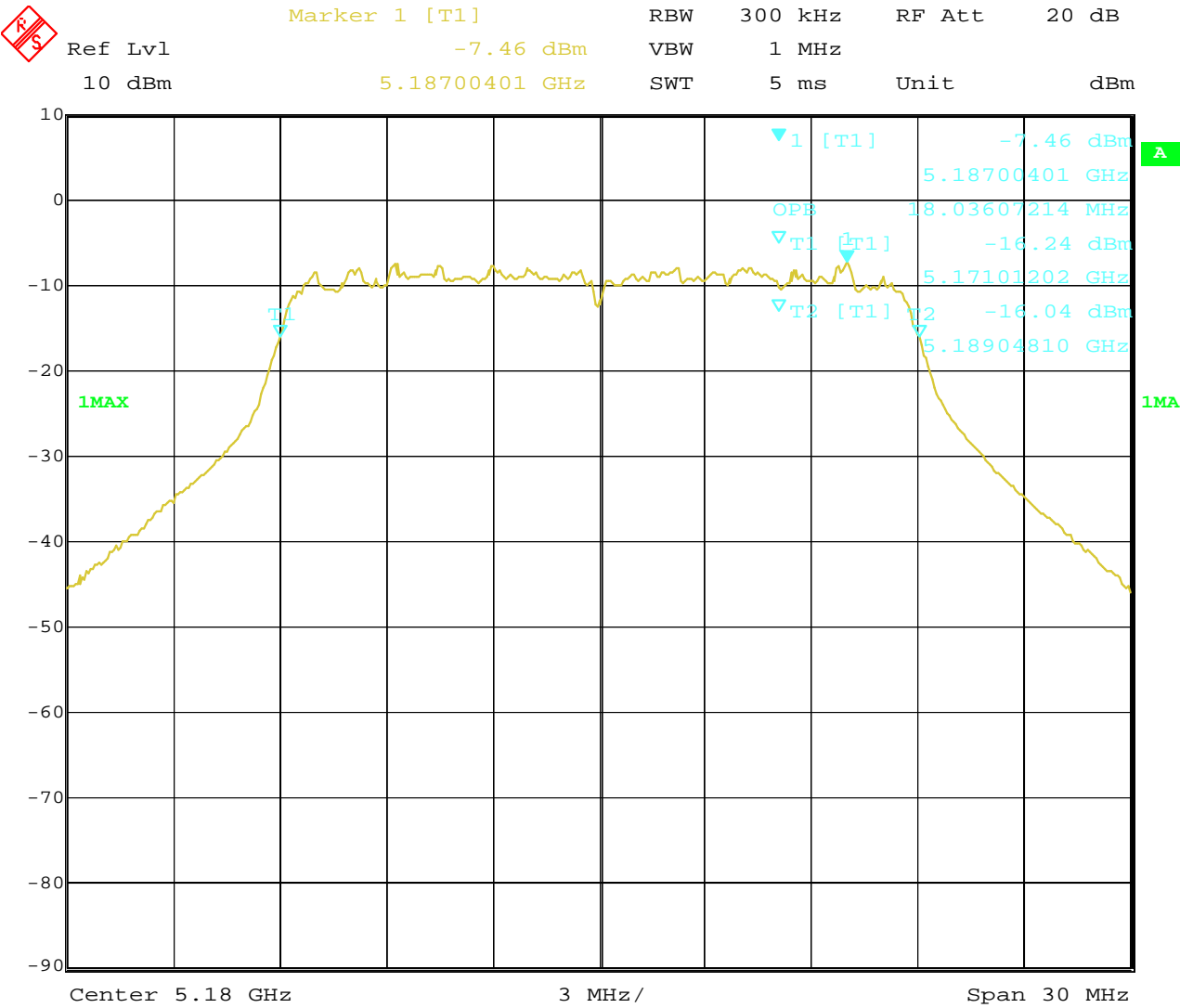
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Test Configure

99% Bandwidth

Channel 36

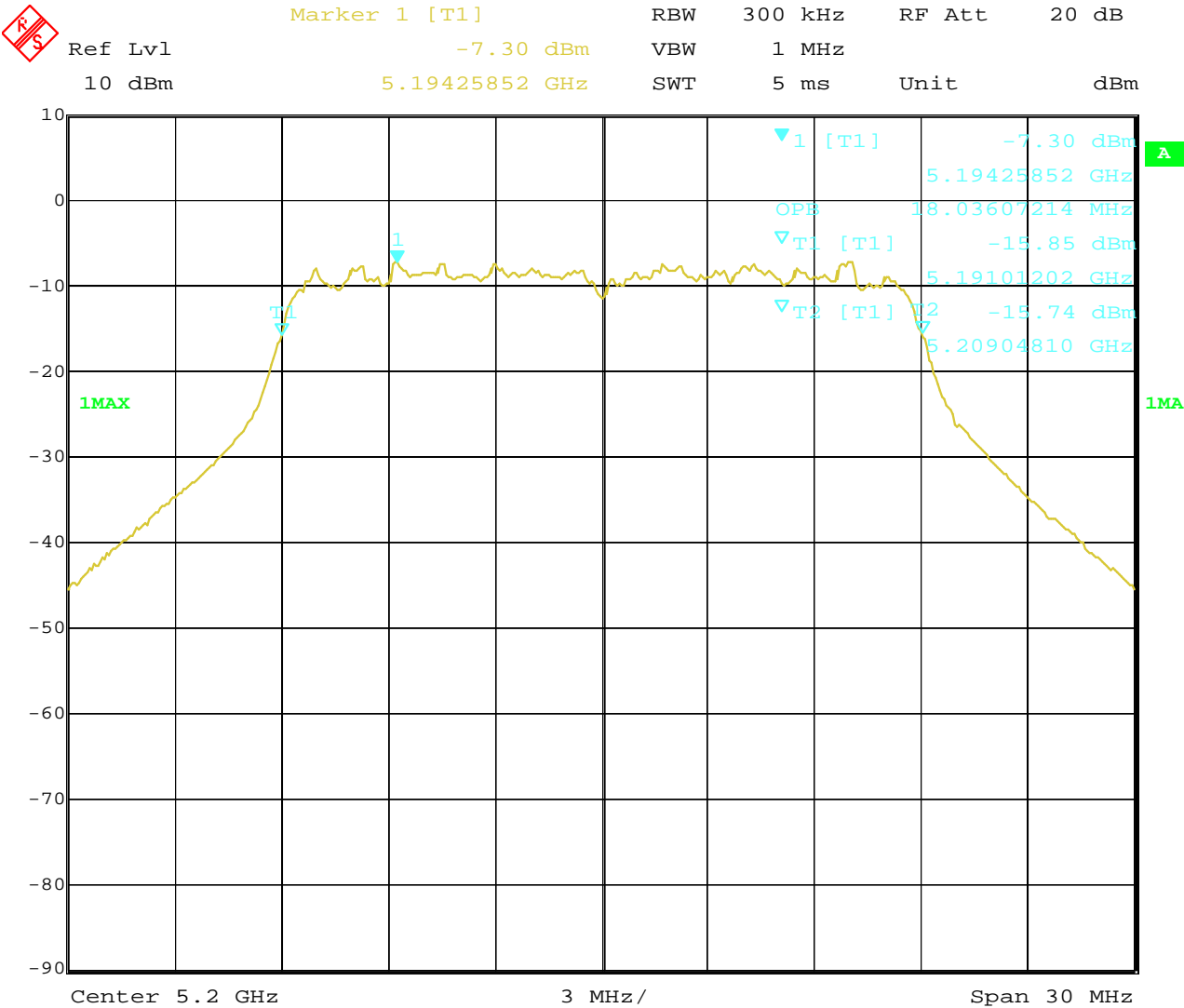


Date: 25.JUN.2022 14:03:11

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Channel 40

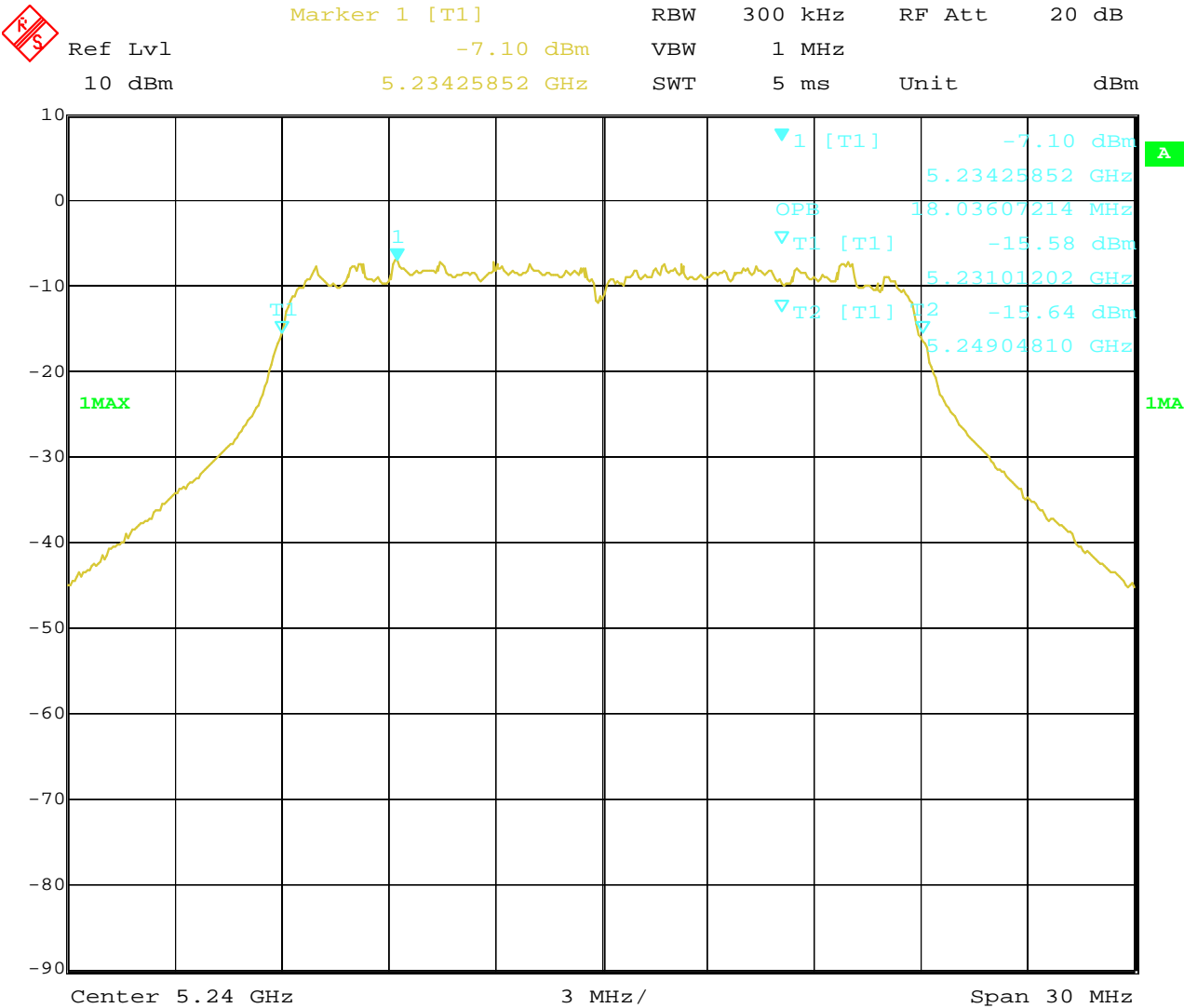


Date: 25.JUN.2022 14:00:44

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Channel 48



Date: 25.JUN.2022 13:58:30

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.



EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT20		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
149	5745	6	23.15	--	Pass
153	5765	6	23.15	--	Pass
161	5805	6	23.27	--	Pass
<b>6dB Bandwidth</b>					
149	5745	6	17.64	0.5	Pass
153	5765	6	17.56	0.5	Pass
161	5805	6	17.62	0.5	Pass
<b>99% Bandwidth</b>					
149	5745	6	18.04	--	Pass
153	5765	6	18.04	--	Pass
161	5805	6	18.04	--	Pass

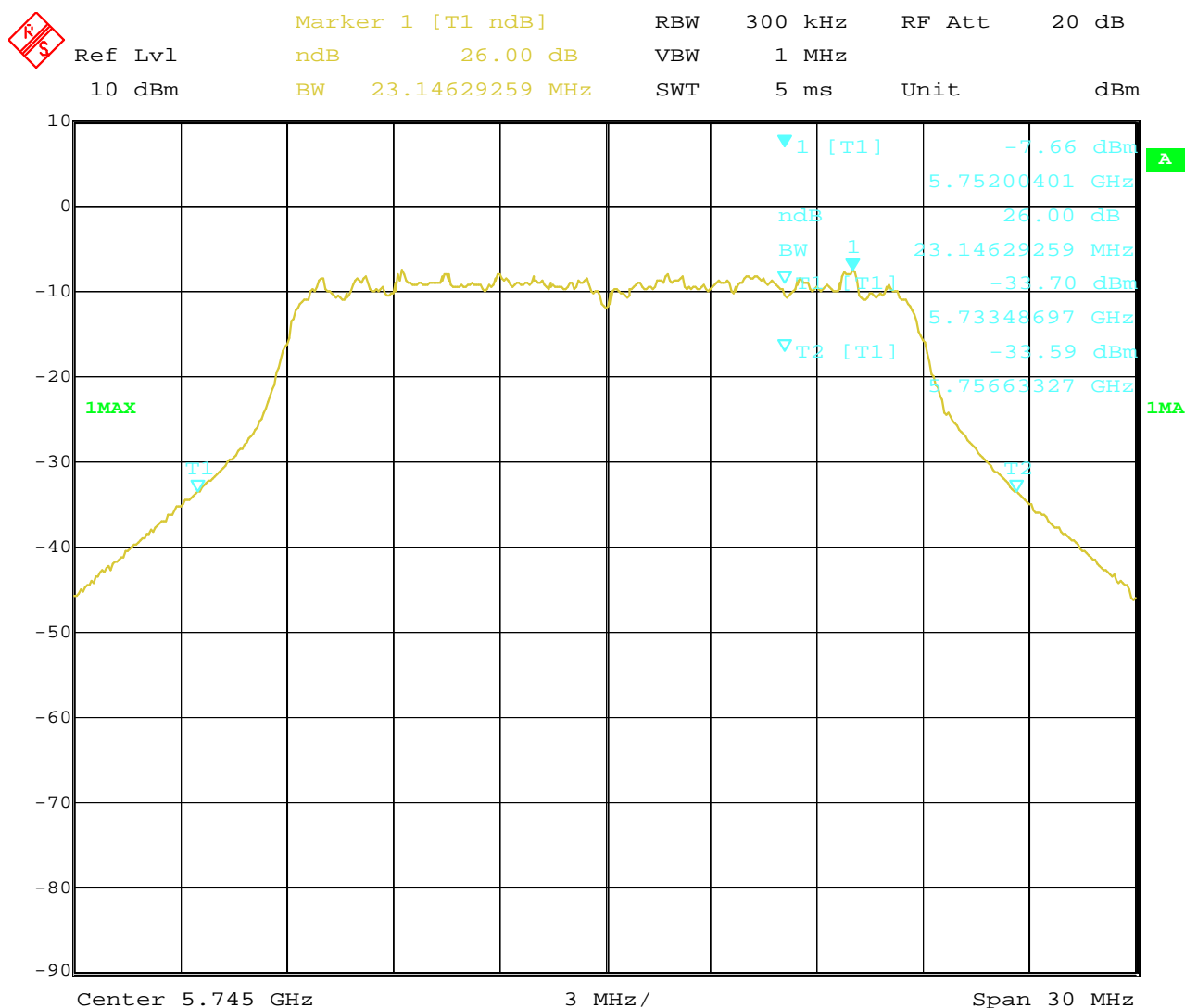
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## 26dB Bandwidth

Channel 149



Date: 27.JUN.2022 17:11:34

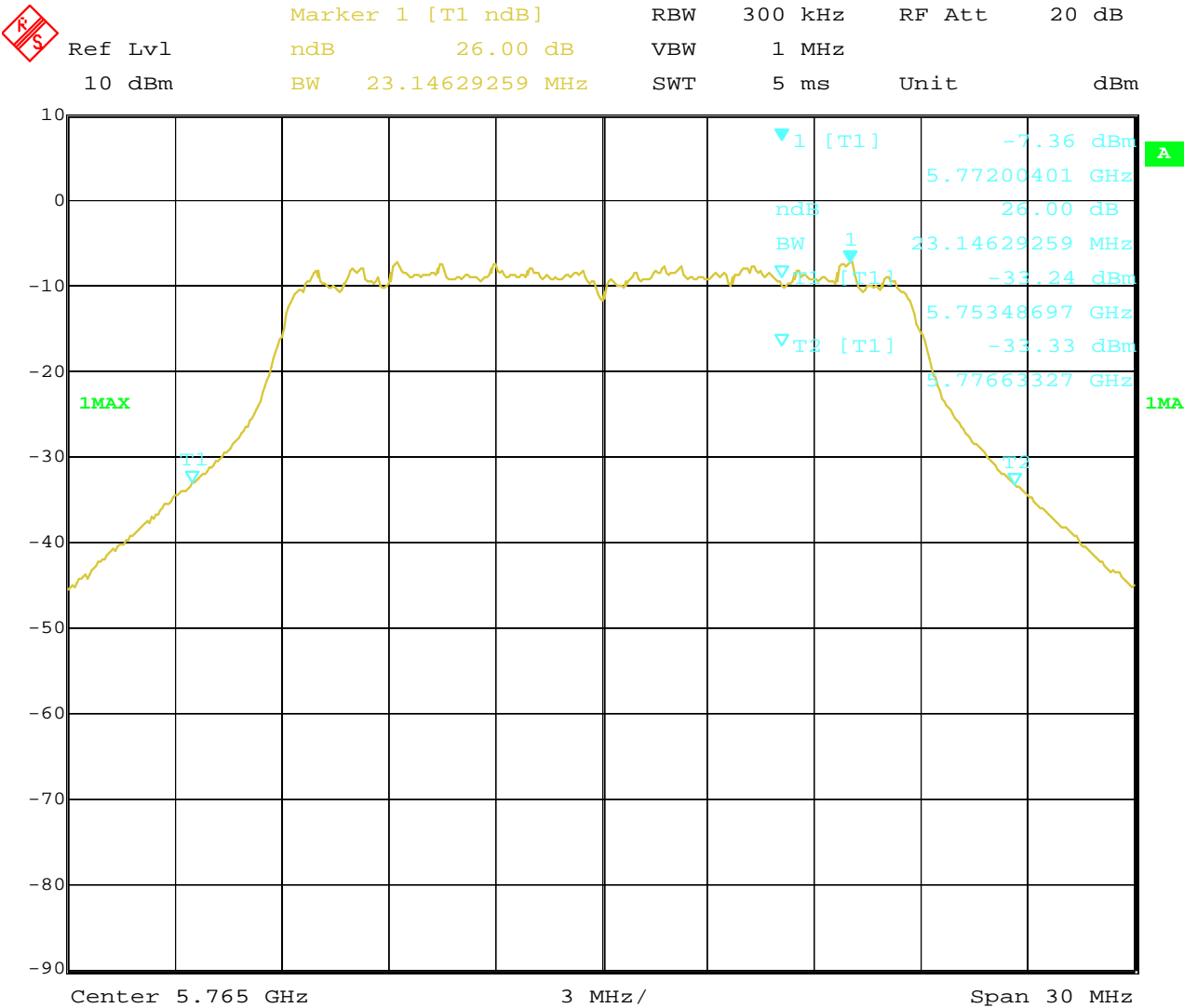
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Channel 153



Date: 27.JUN.2022 17:08:44

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 third, THE SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

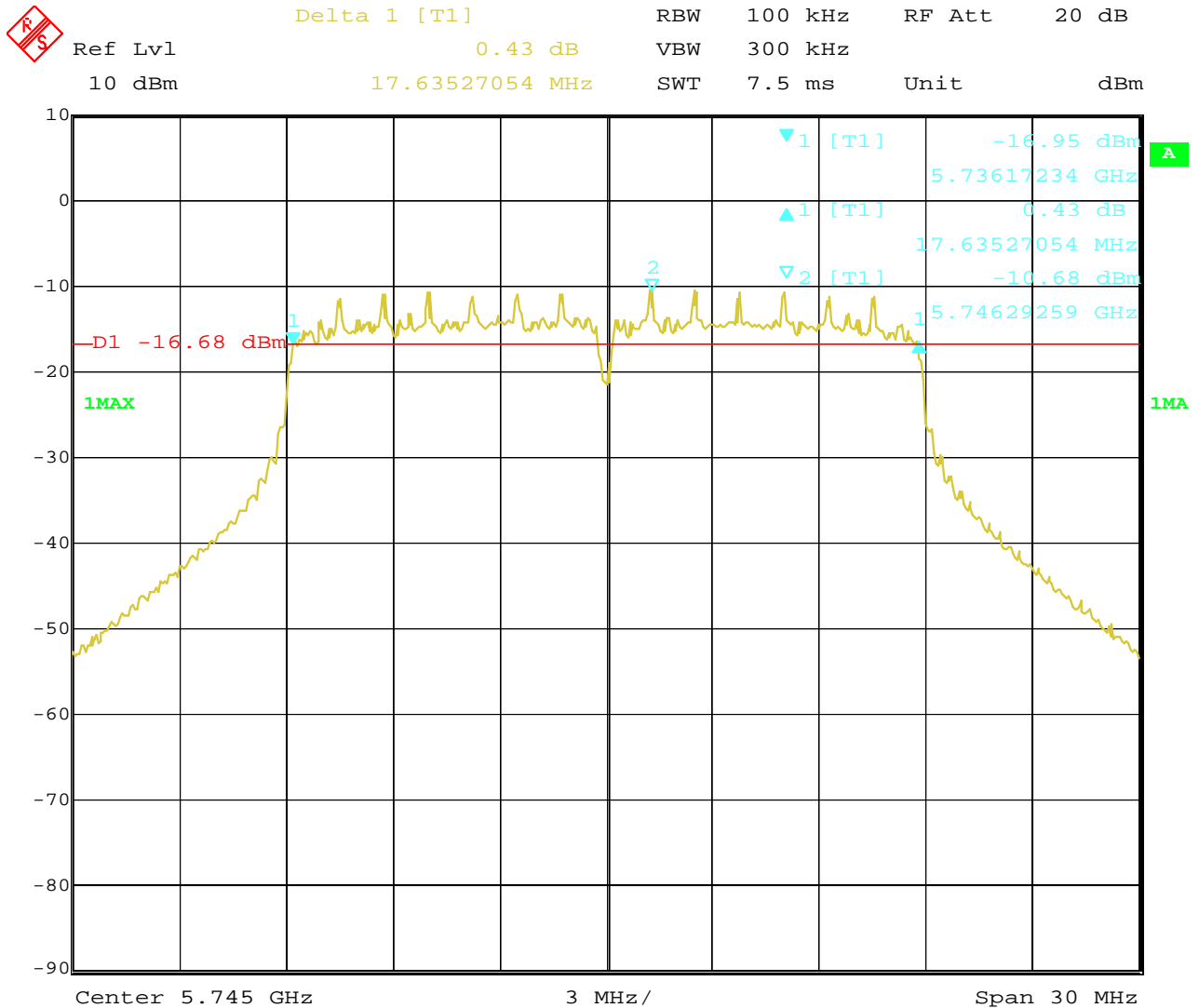




## Test Configure

### 6dB Bandwidth

#### Channel 149



Date: 27.JUN.2022 15:54:05

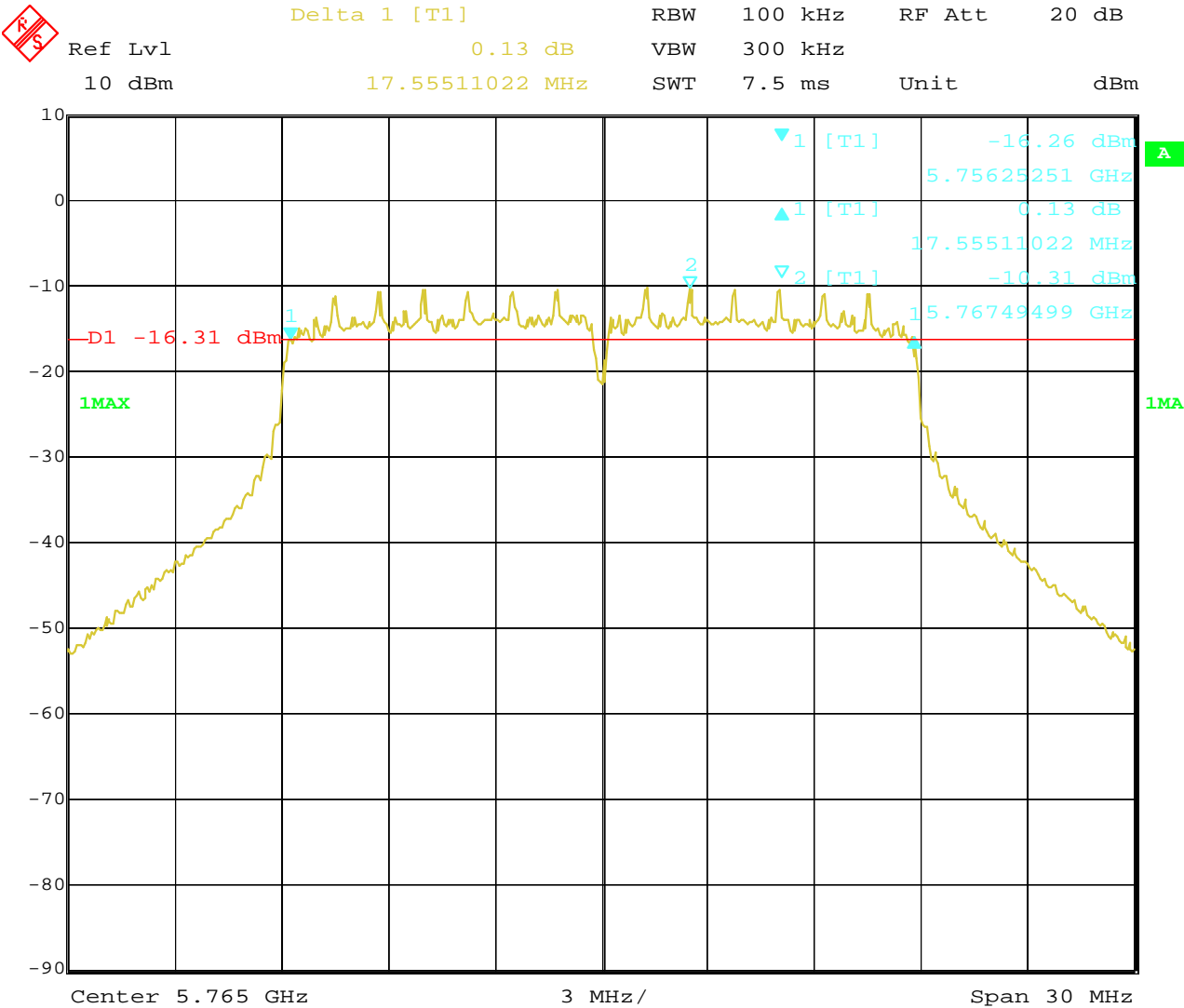
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Channel 153

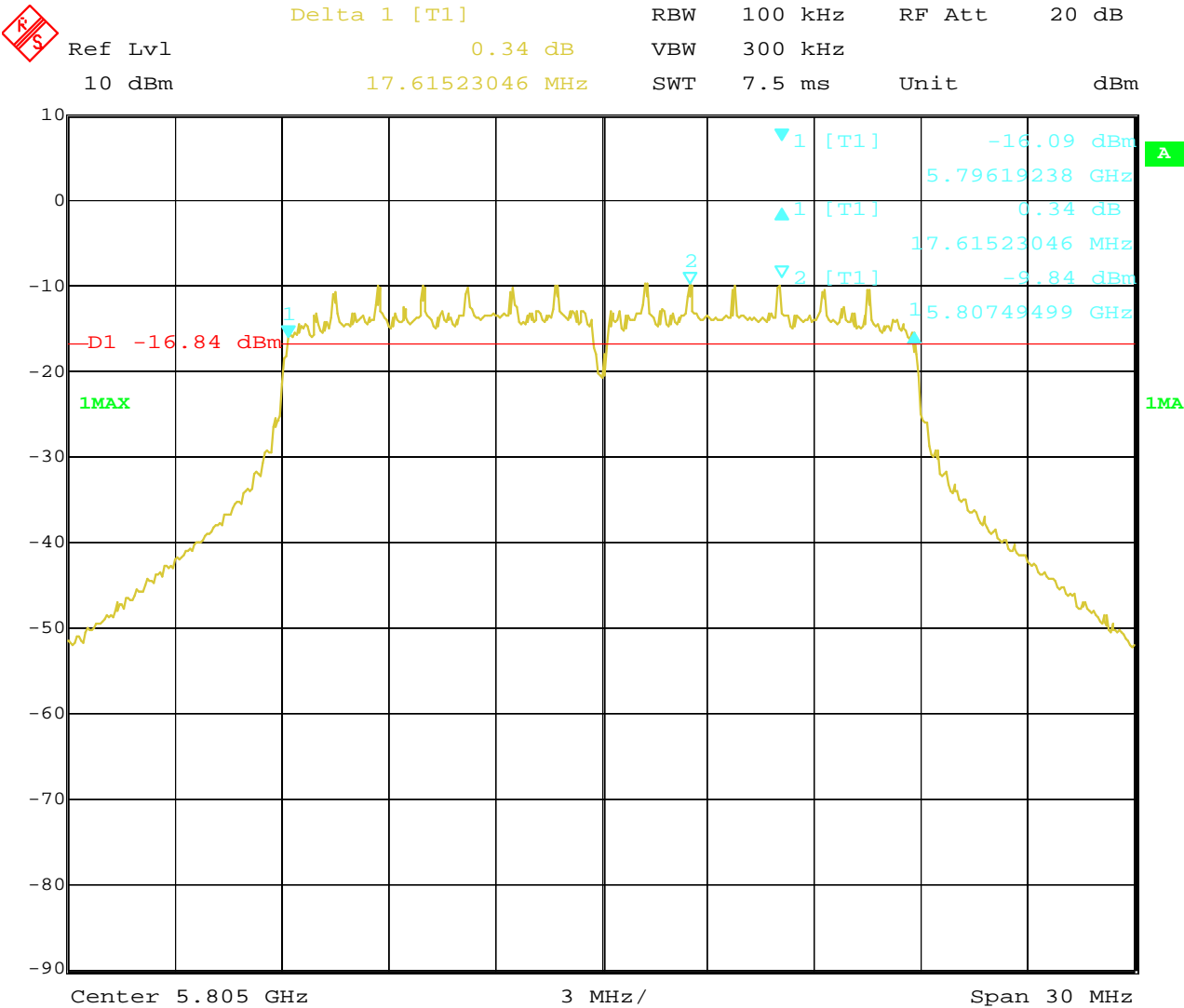


Date: 27.JUN.2022 15:50:22

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



Date: 27.JUN.2022 15:38:35

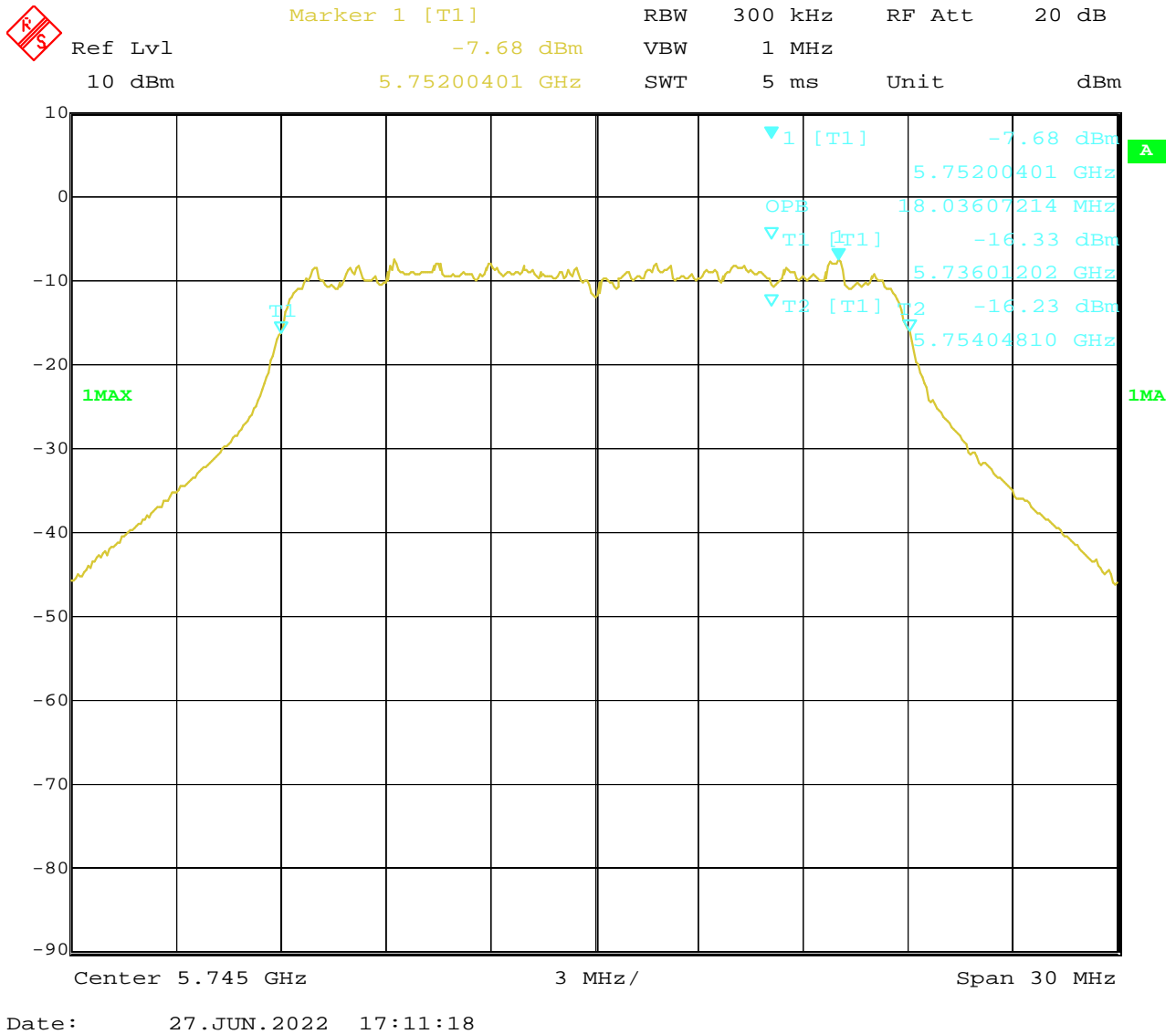
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Test Configure

99% Bandwidth

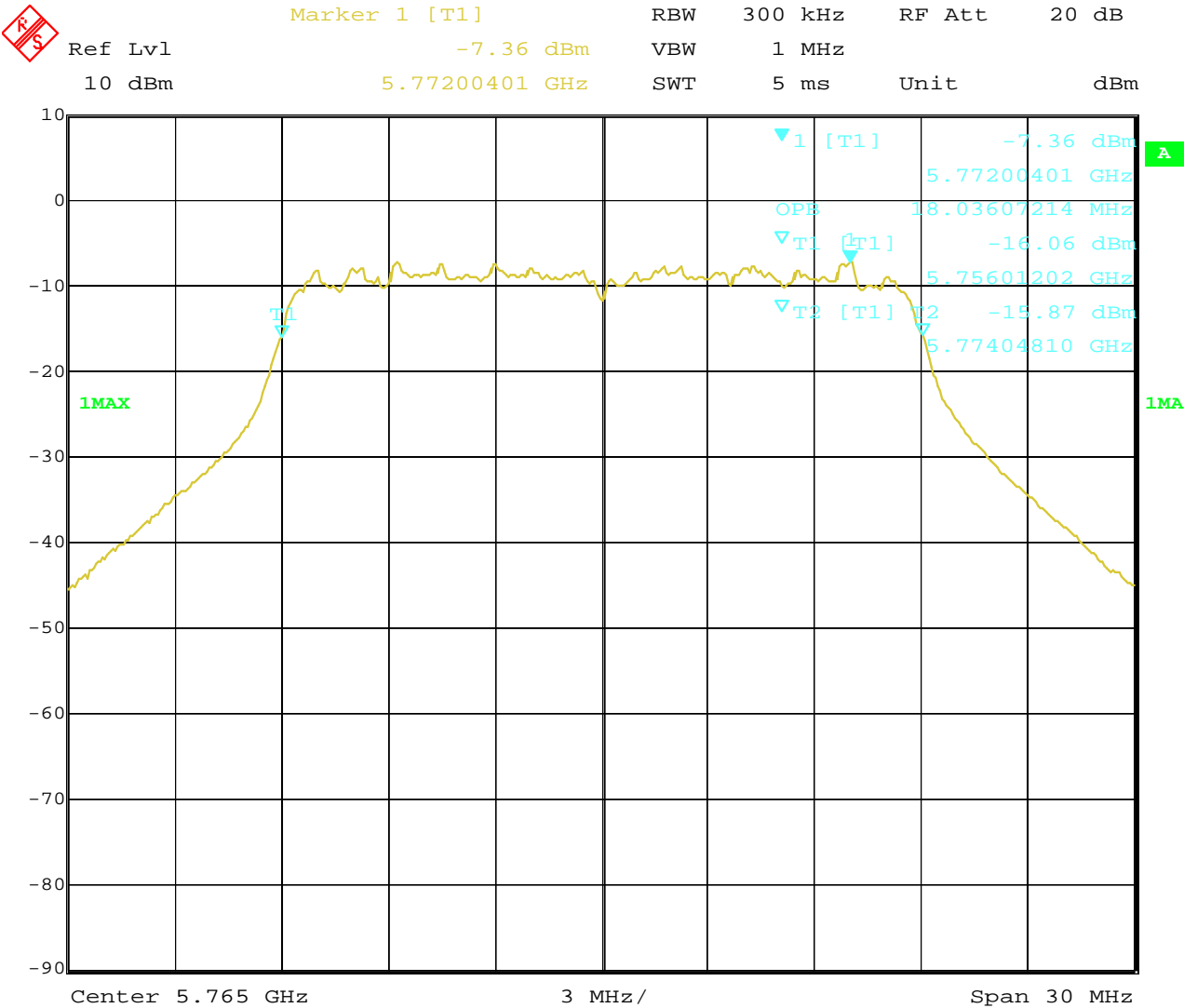
Channel 149



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

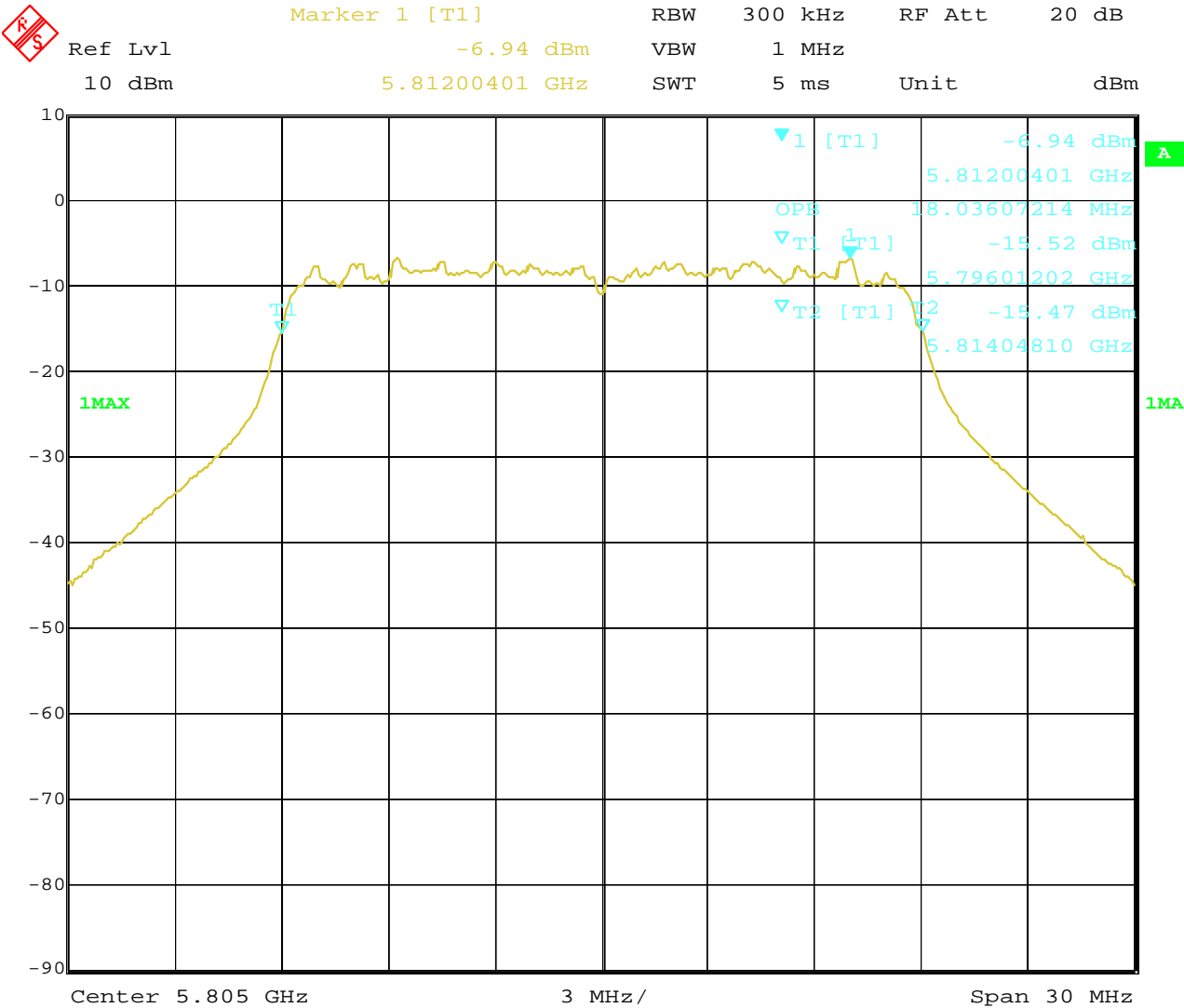


Date: 27.JUN.2022 17:09:12

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



Date: 27.JUN.2022 17:02:28

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT40		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
38	5190	mcs0	45.57	--	Pass
46	5230	mcs0	45.57	--	Pass
<b>99% Bandwidth</b>					
38	5190	mcs0	37.15	--	Pass
46	5230	mcs0	37.27	--	Pass

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

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

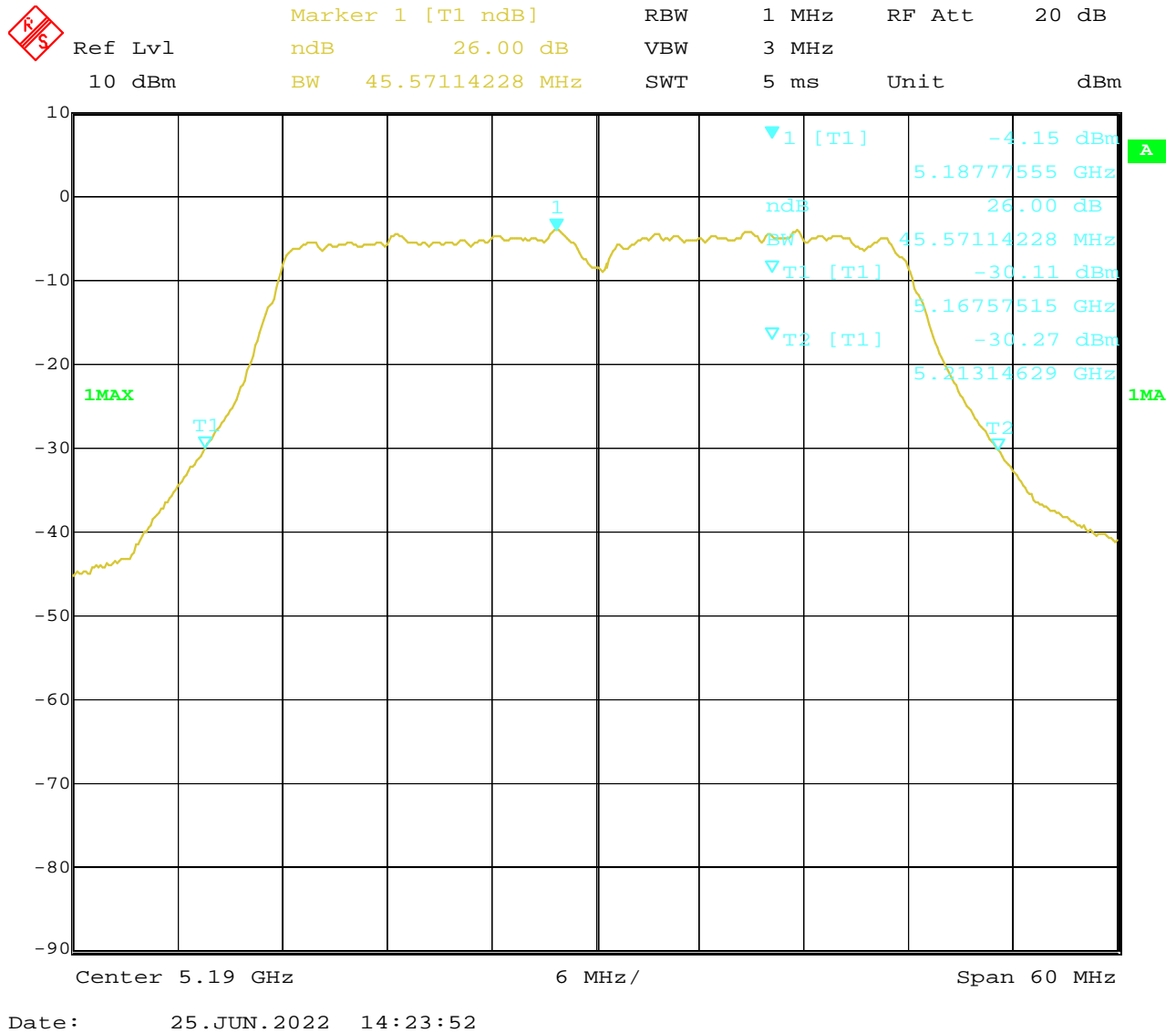
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



## Test Configure

### 26dB Bandwidth

#### Channel 38



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

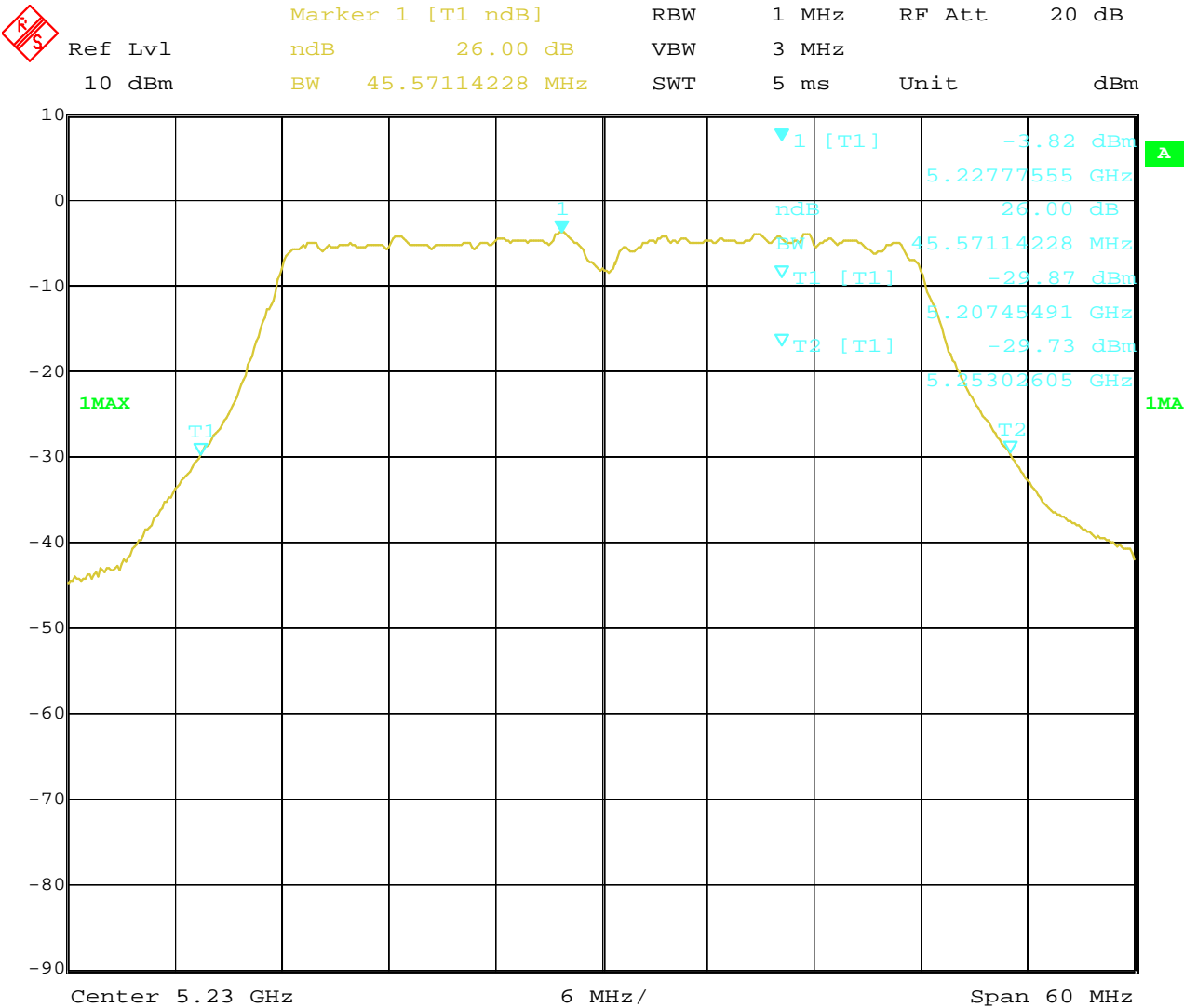
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send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

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Channel 46



Date: 25.JUN.2022 14:28:50

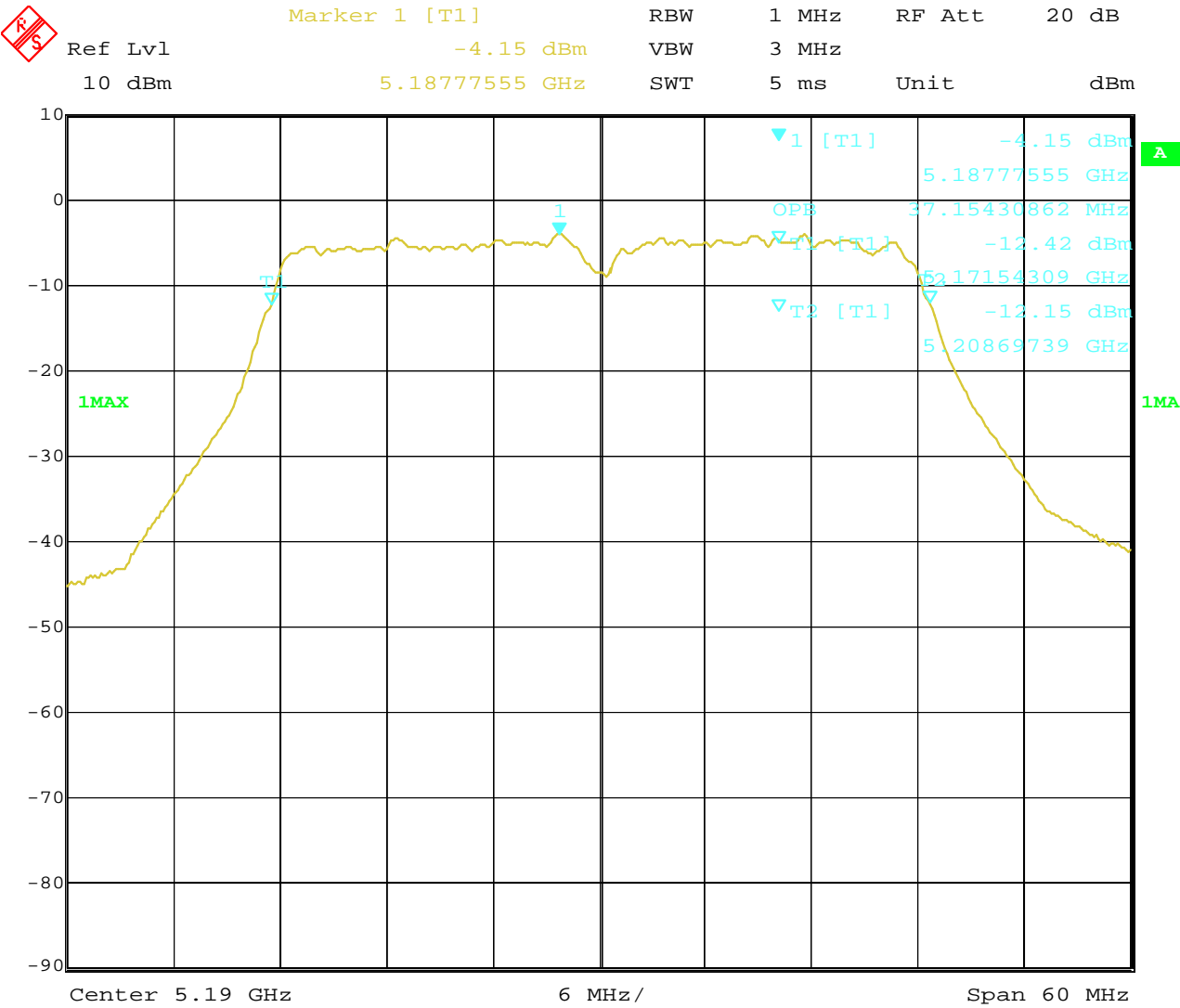
The report refers only to the sample tested and does not apply to the bulk.  
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Test Configure

99% Bandwidth

Channel 38

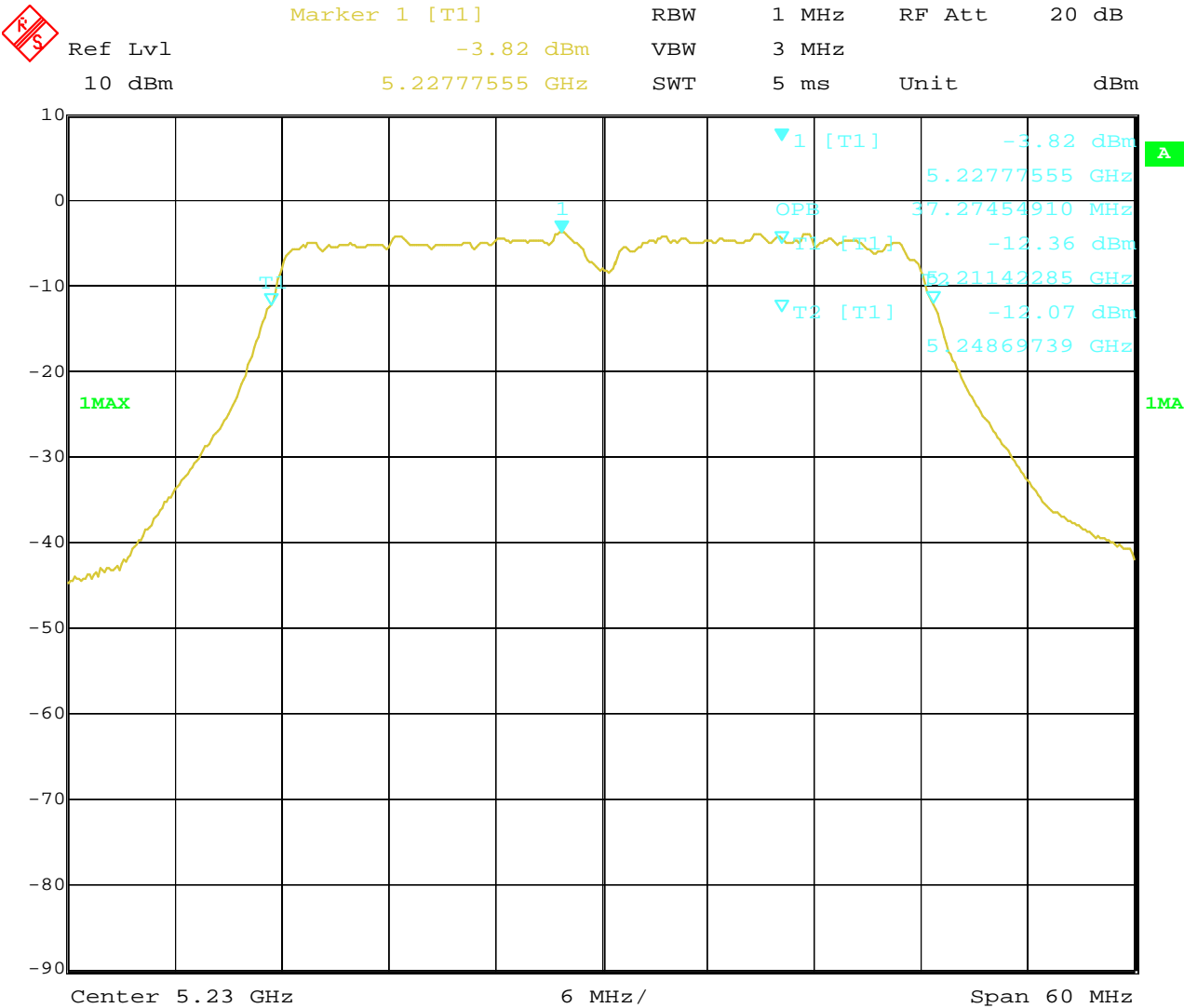


Date: 25.JUN.2022 14:23:37

The report refers only to the sample tested and does not apply to the bulk.  
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Channel 46



Date: 25.JUN.2022 14:29:04

The report refers only to the sample tested and does not apply to the bulk.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT40		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
151	5755	mcs0	45.57	--	Pass
159	5795	mcs0	45.45	--	Pass
<b>6dB Bandwidth</b>					
151	5755	mcs0	36.31	0.5	Pass
159	5795	mcs0	36.26	0.5	Pass
<b>99% Bandwidth</b>					
151	5755	mcs0	37.15	--	Pass
159	5795	mcs0	37.15	--	Pass

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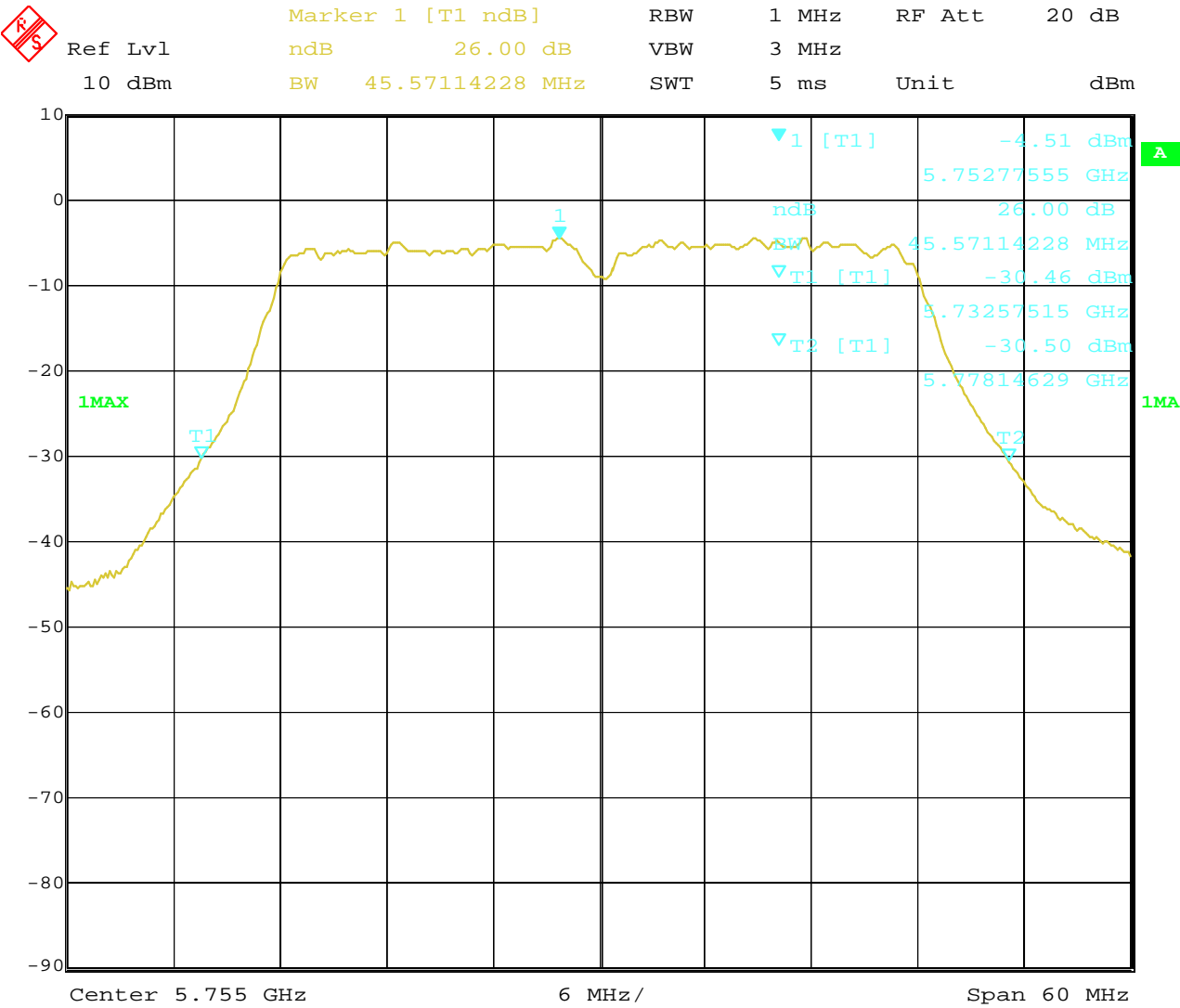
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 151

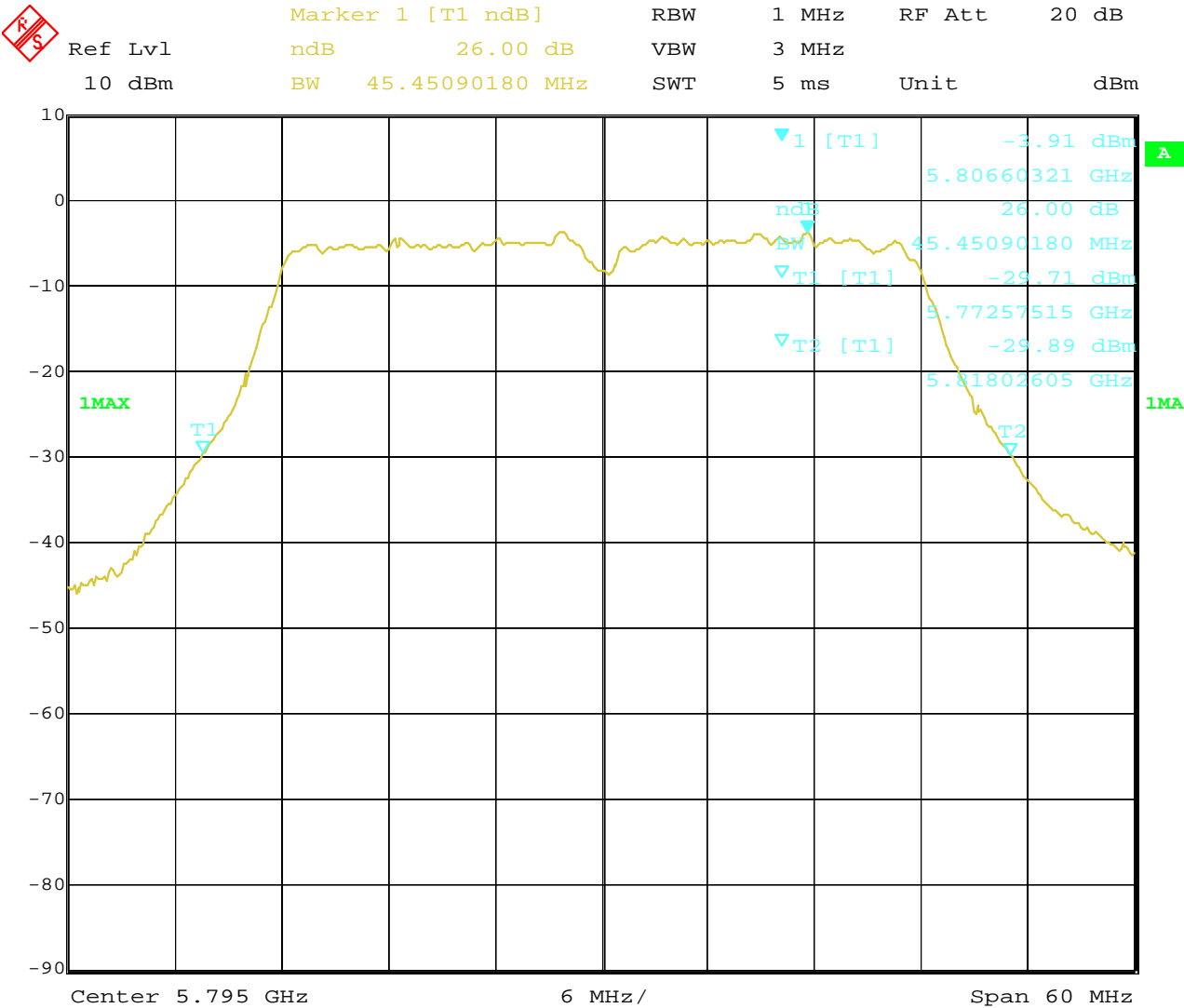


Date: 27.JUN.2022 16:42:21

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



Date: 27.JUN.2022 16:38:34

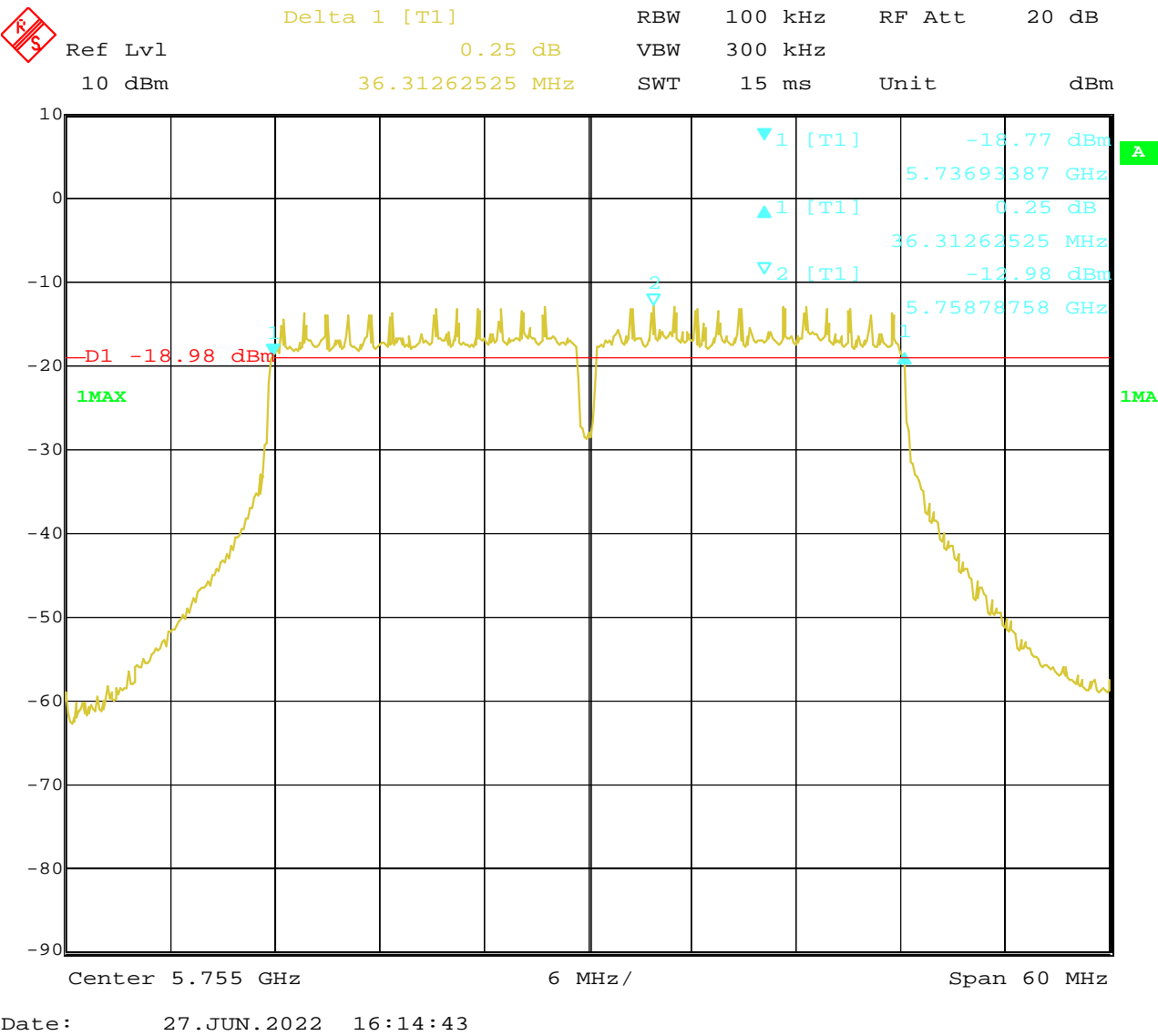
The report refers only to the sample tested and does not apply to the bulk.  
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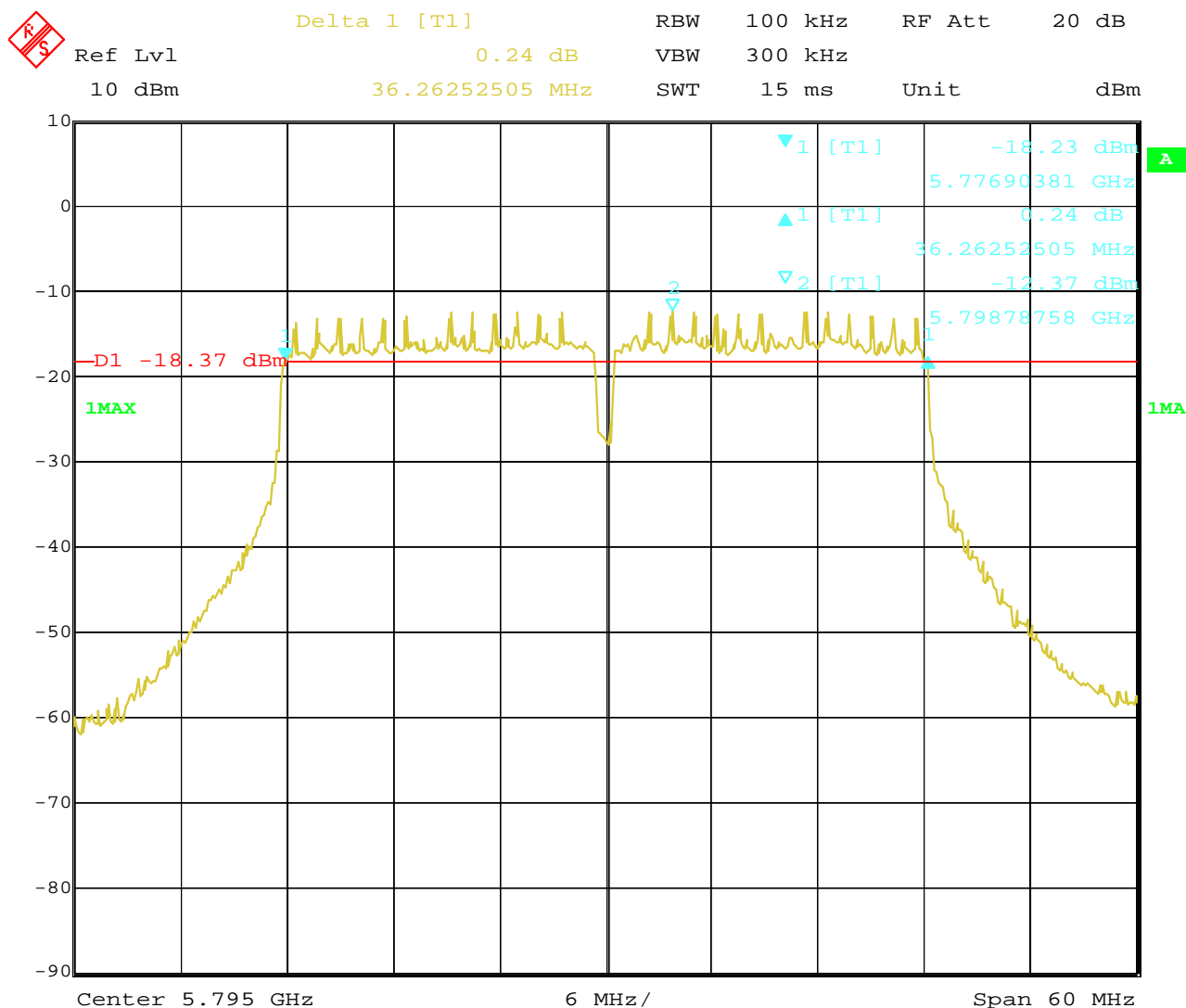
Test Configure

6dB Bandwidth

Channel 151



The report refers only to the sample tested and does not apply to the bulk.  
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Date: 27.JUN.2022 16:17:49

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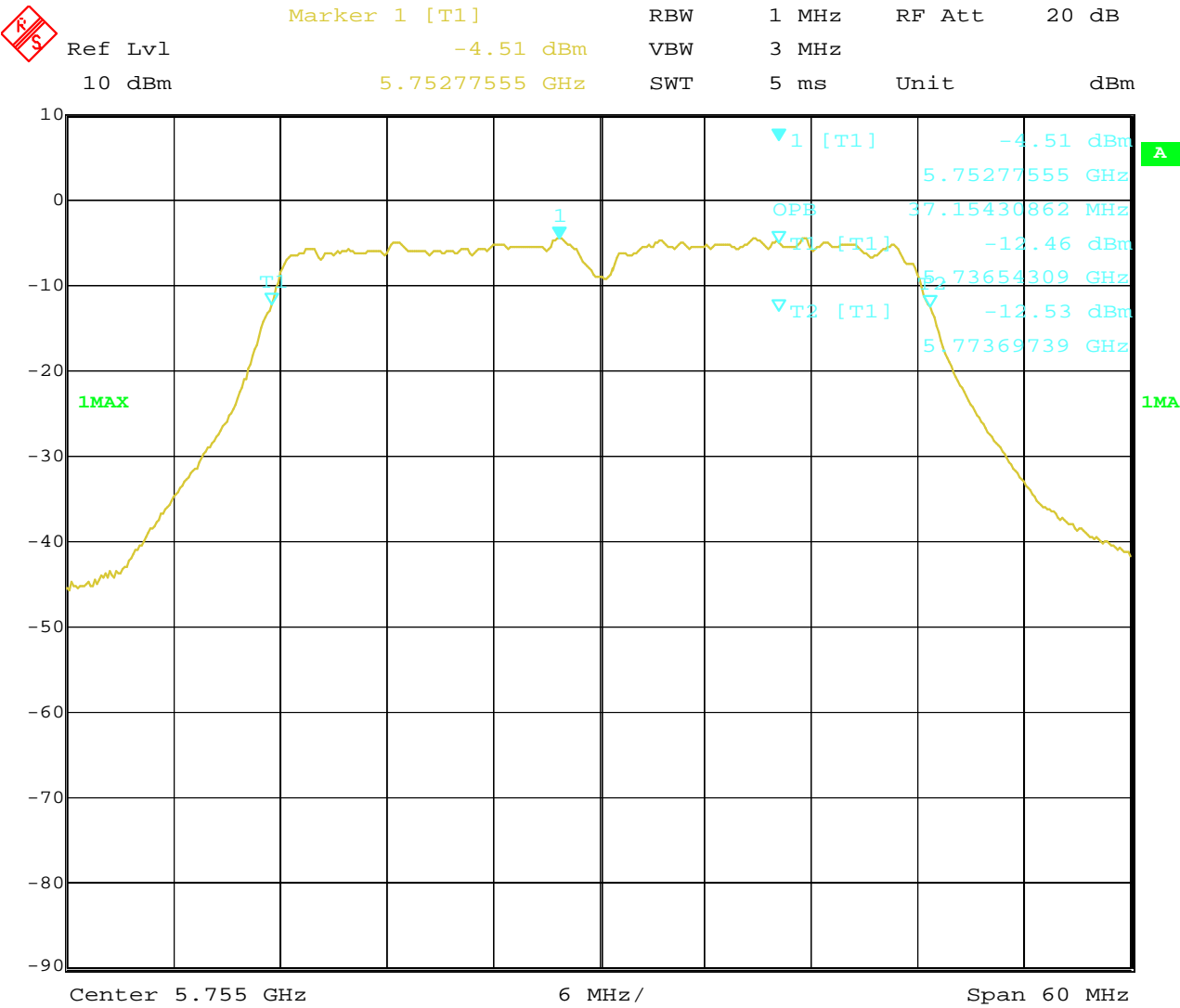




Test Configure

99% Bandwidth

Channel 151



1MAX

1MA

Center 5.755 GHz

6 MHz /

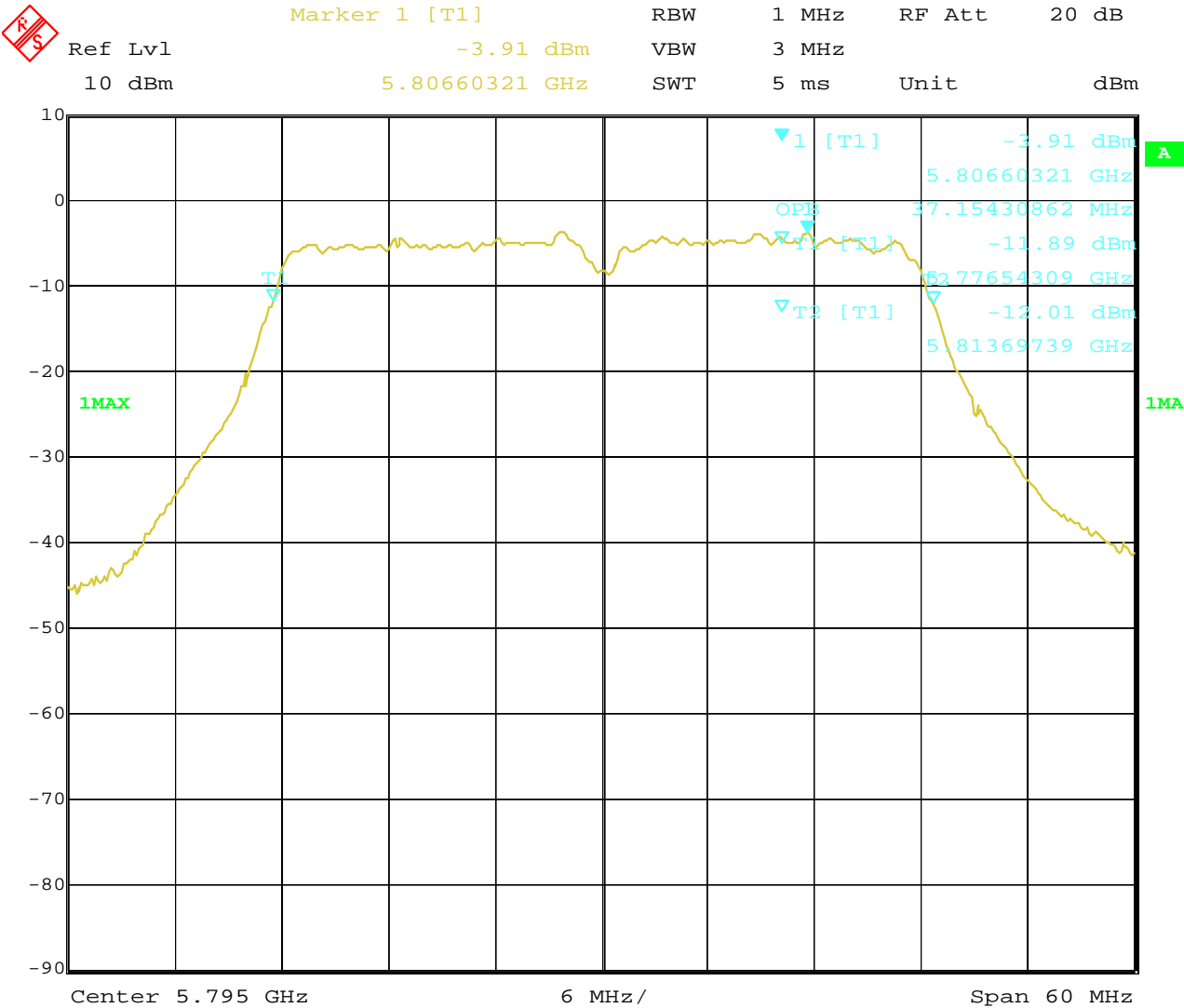
Span 60 MHz

Date: 27.JUN.2022 16:42:32

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Channel 159



Date: 27.JUN.2022 16:38:16

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT20		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
36	5180	mcs0	23.81	--	Pass
40	5200	mcs0	23.87	--	Pass
48	5240	mcs0	23.81	--	Pass
<b>99% Bandwidth</b>					
36	5180	mcs0	18.16	--	Pass
40	5200	mcs0	18.22	--	Pass
48	5240	mcs0	18.22	--	Pass

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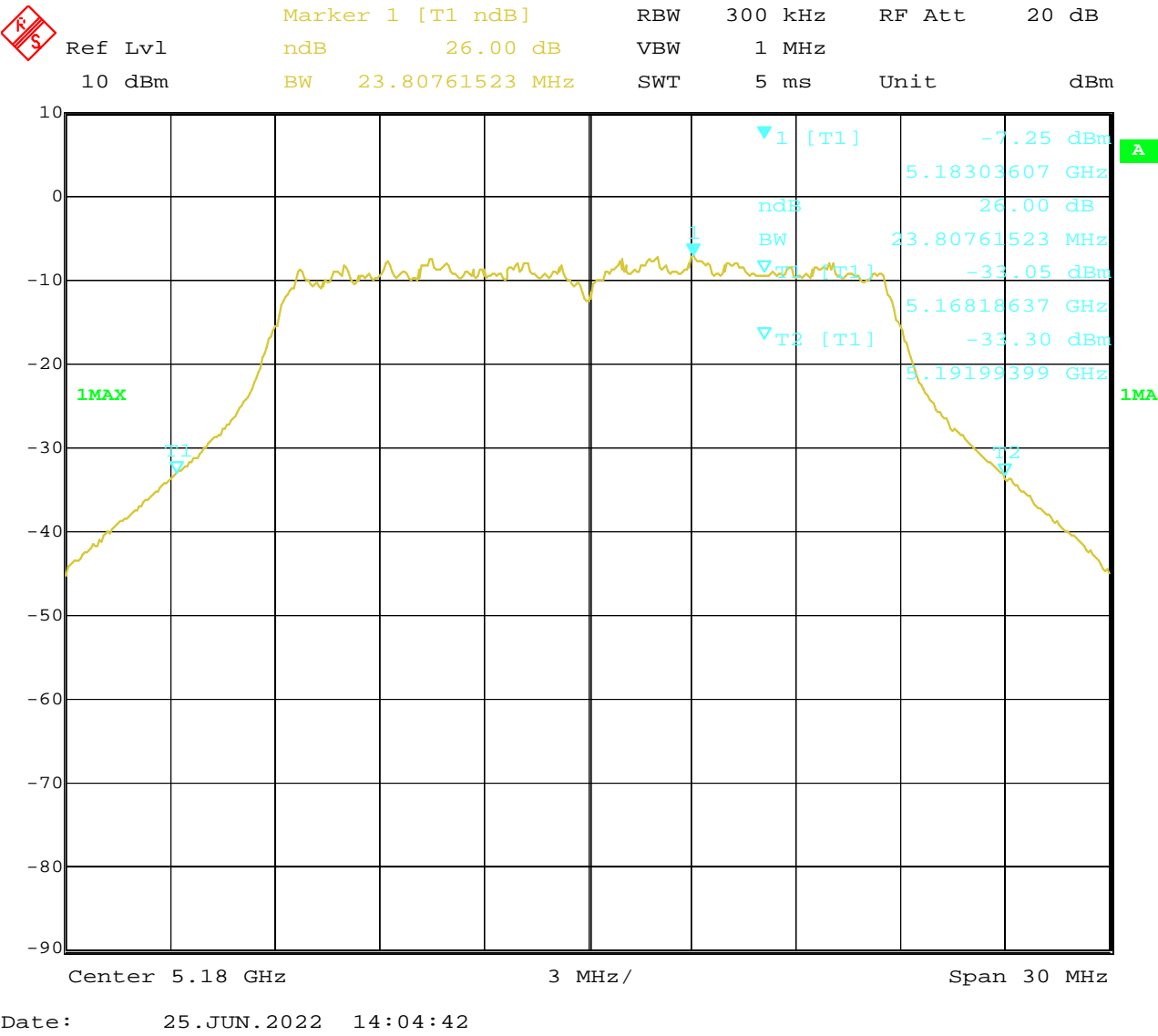
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

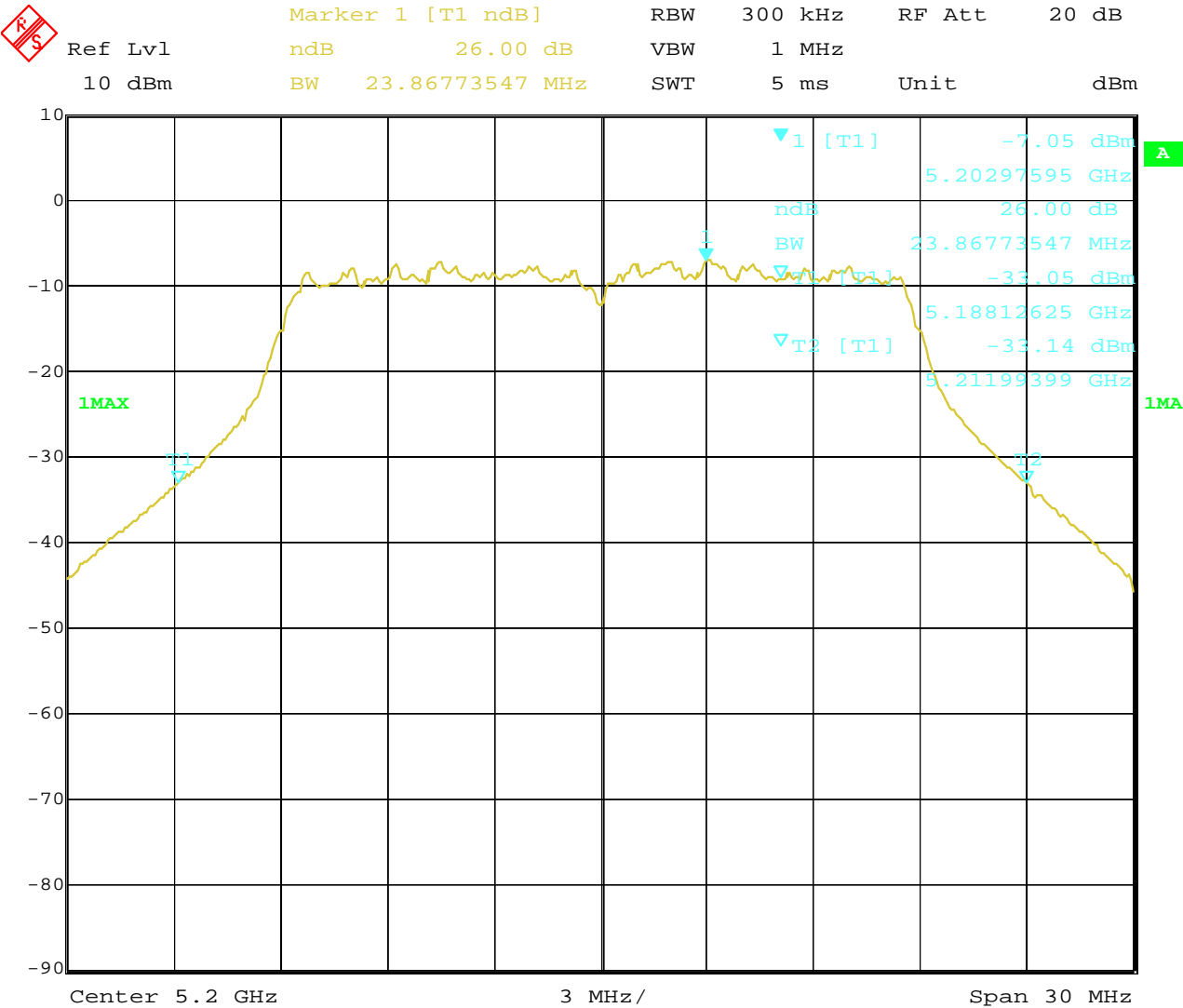
Channel 36



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



Date: 25.JUN.2022 14:08:07

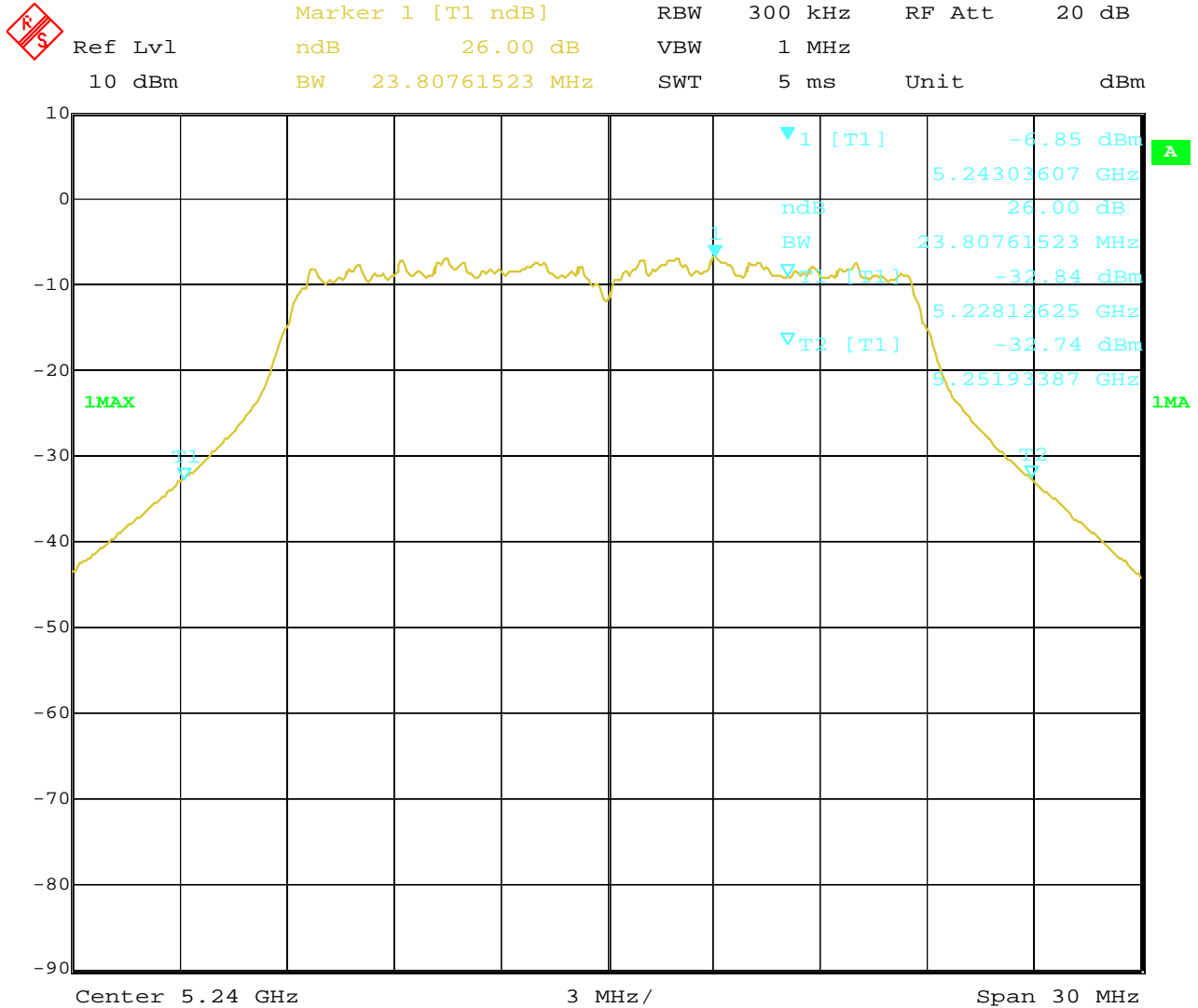
The report refers only to the sample tested and does not apply to the bulk.

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

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.



Channel 48



Date: 25.JUN.2022 14:16:06

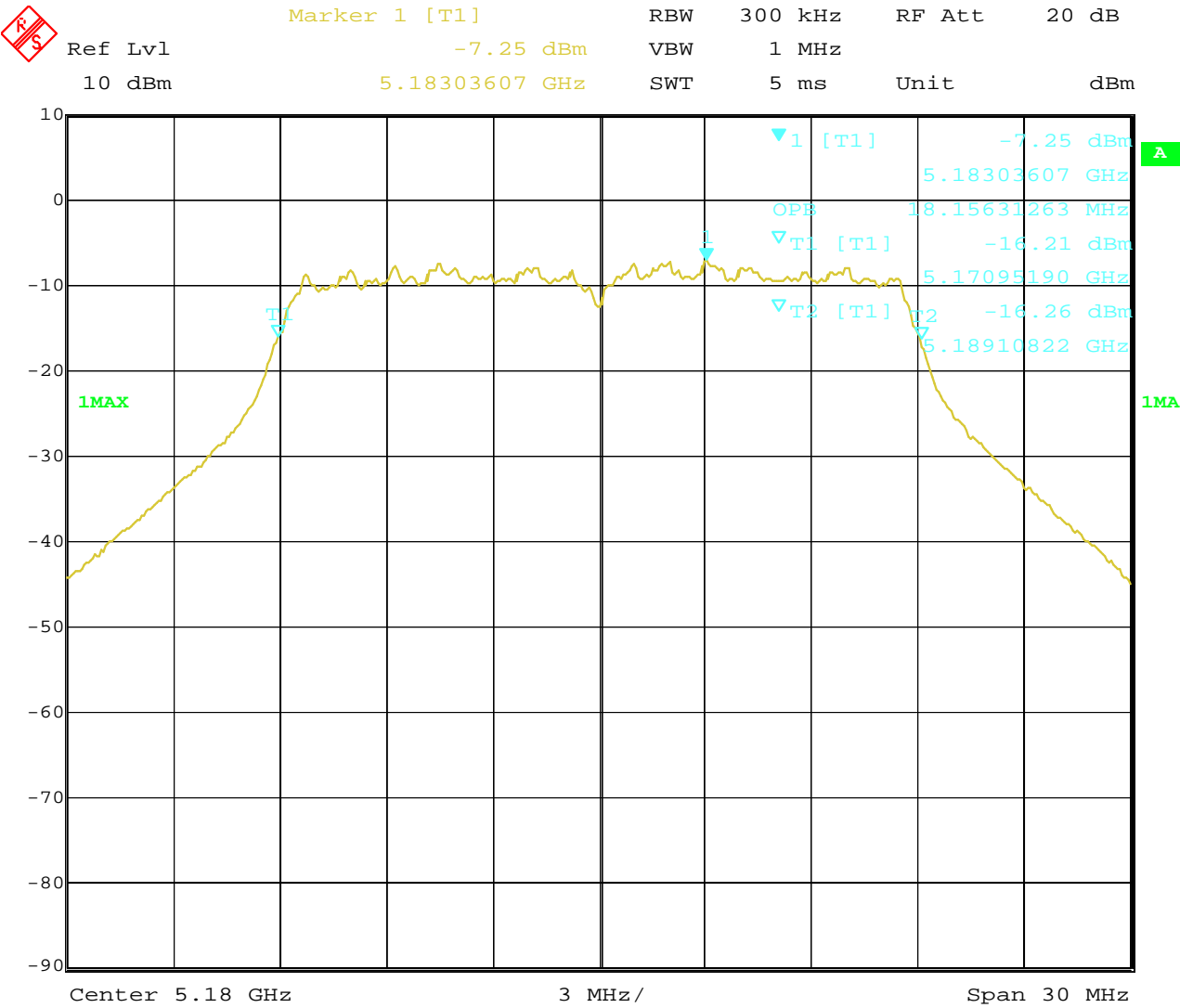
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Test Configure

99% Bandwidth

Channel 36

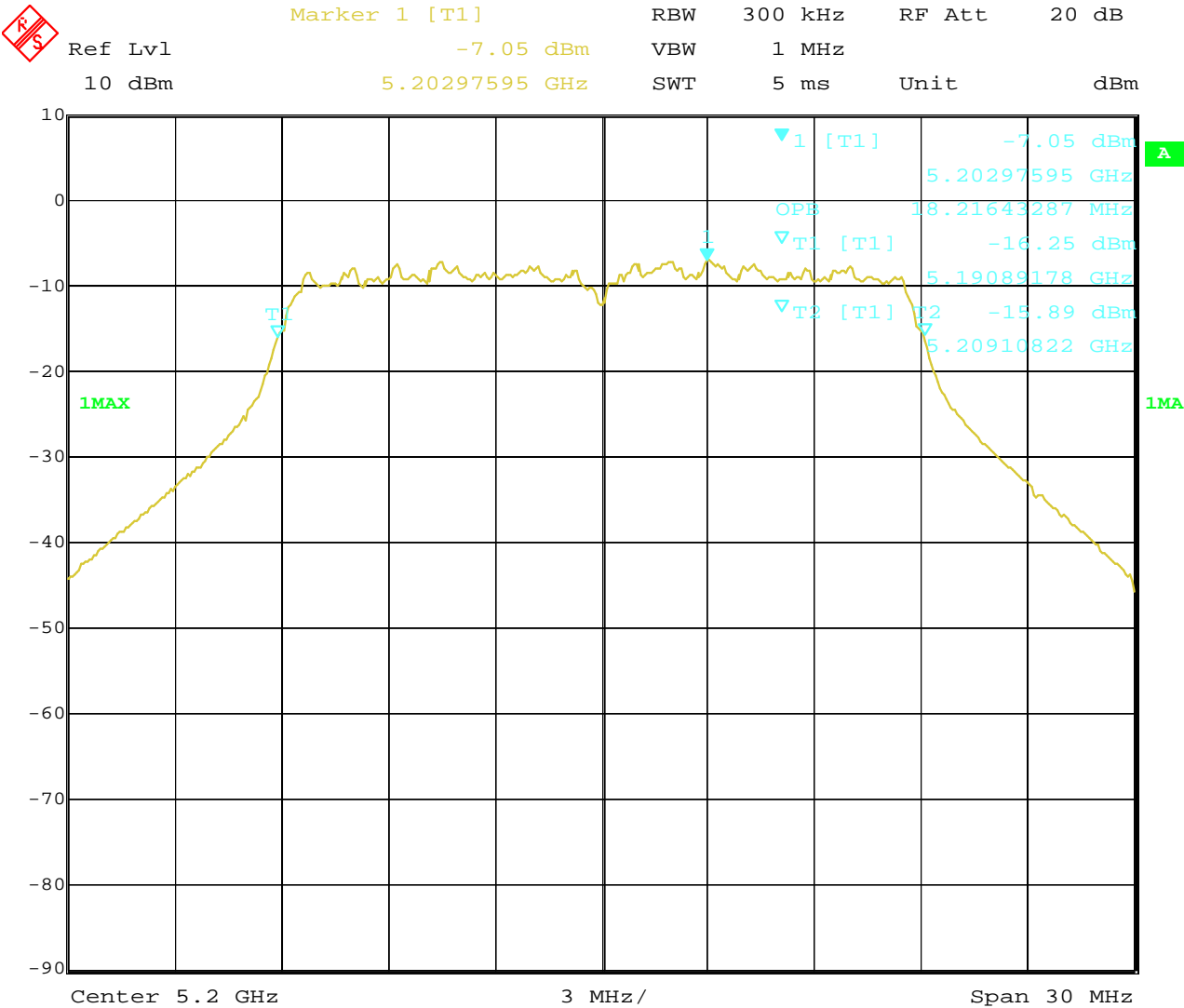


Date: 25.JUN.2022 14:04:56

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertizing. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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Channel 40



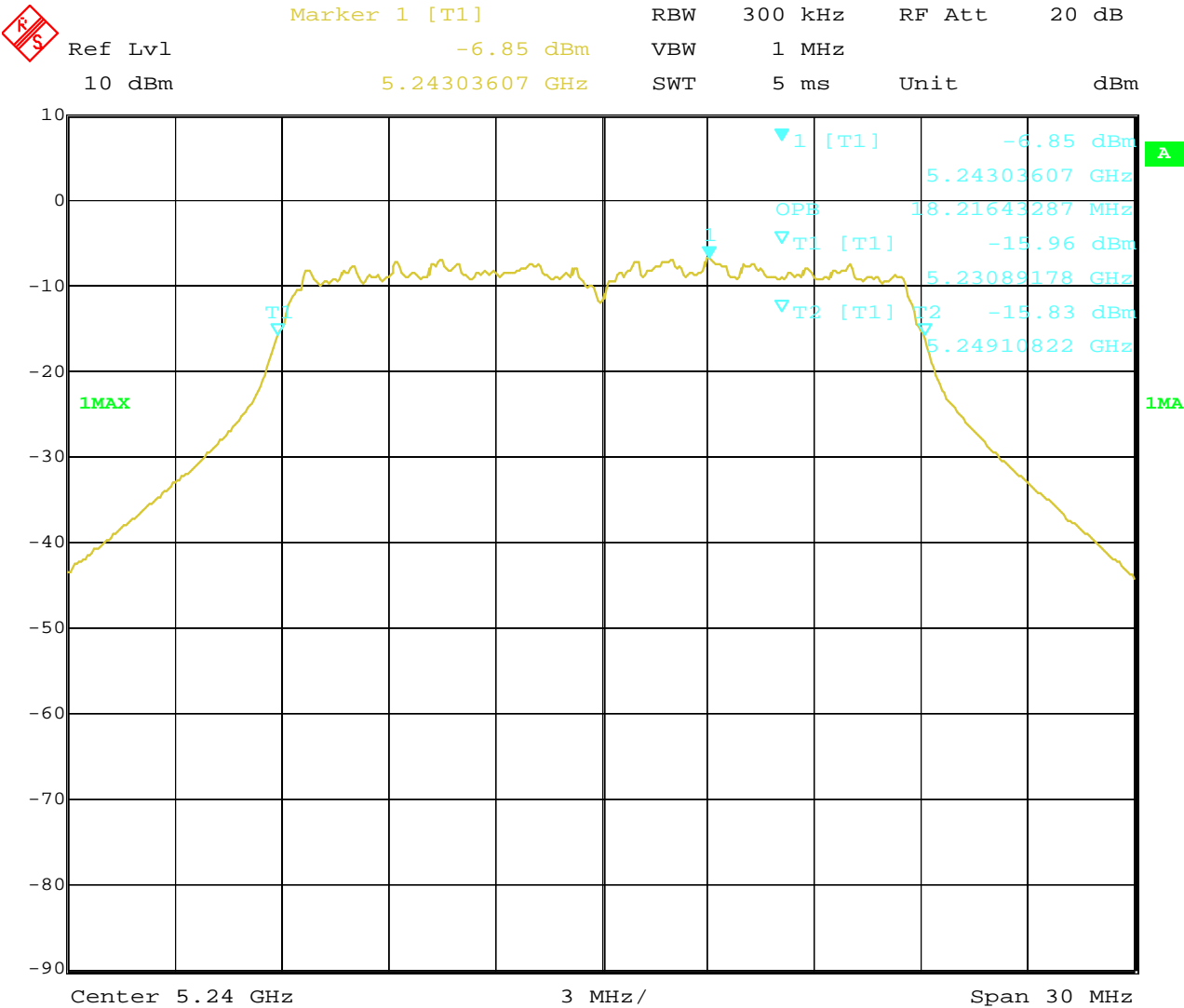
Date: 25.JUN.2022 14:07:52

The report refers only to the sample tested and does not apply to the bulk.  
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Channel 48



Date: 25.JUN.2022 14:16:20

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT20		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
149	5745	6	23.87	--	Pass
153	5765	6	23.81	--	Pass
161	5805	6	23.81	--	Pass
<b>6dB Bandwidth</b>					
149	5745	6	17.64	0.5	Pass
153	5765	6	17.64	0.5	Pass
161	5805	6	17.56	0.5	Pass
<b>99% Bandwidth</b>					
149	5745	6	18.22	--	Pass
153	5765	6	18.16	--	Pass
161	5805	6	18.22	--	Pass

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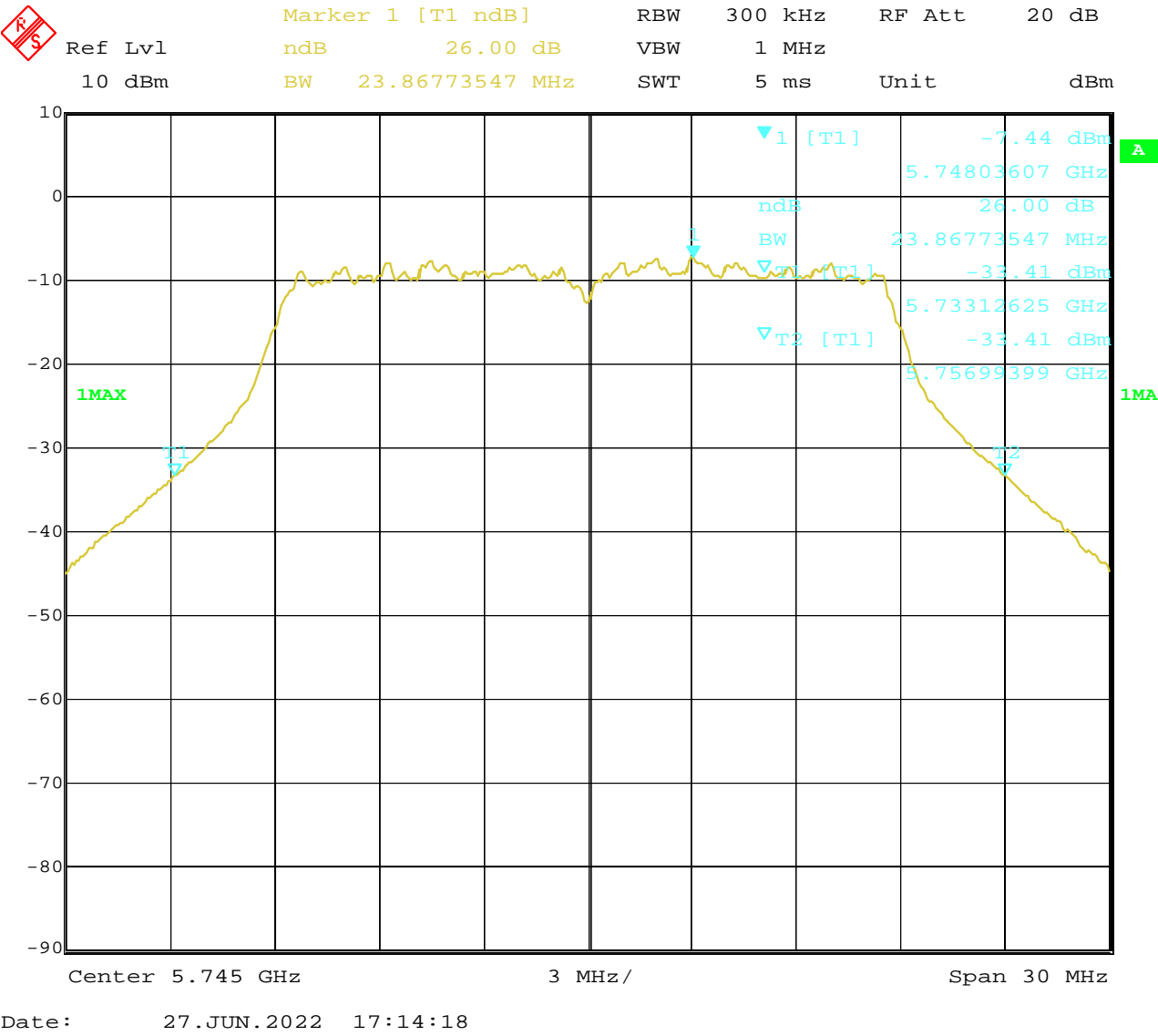
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Test Configure

26dB Bandwidth

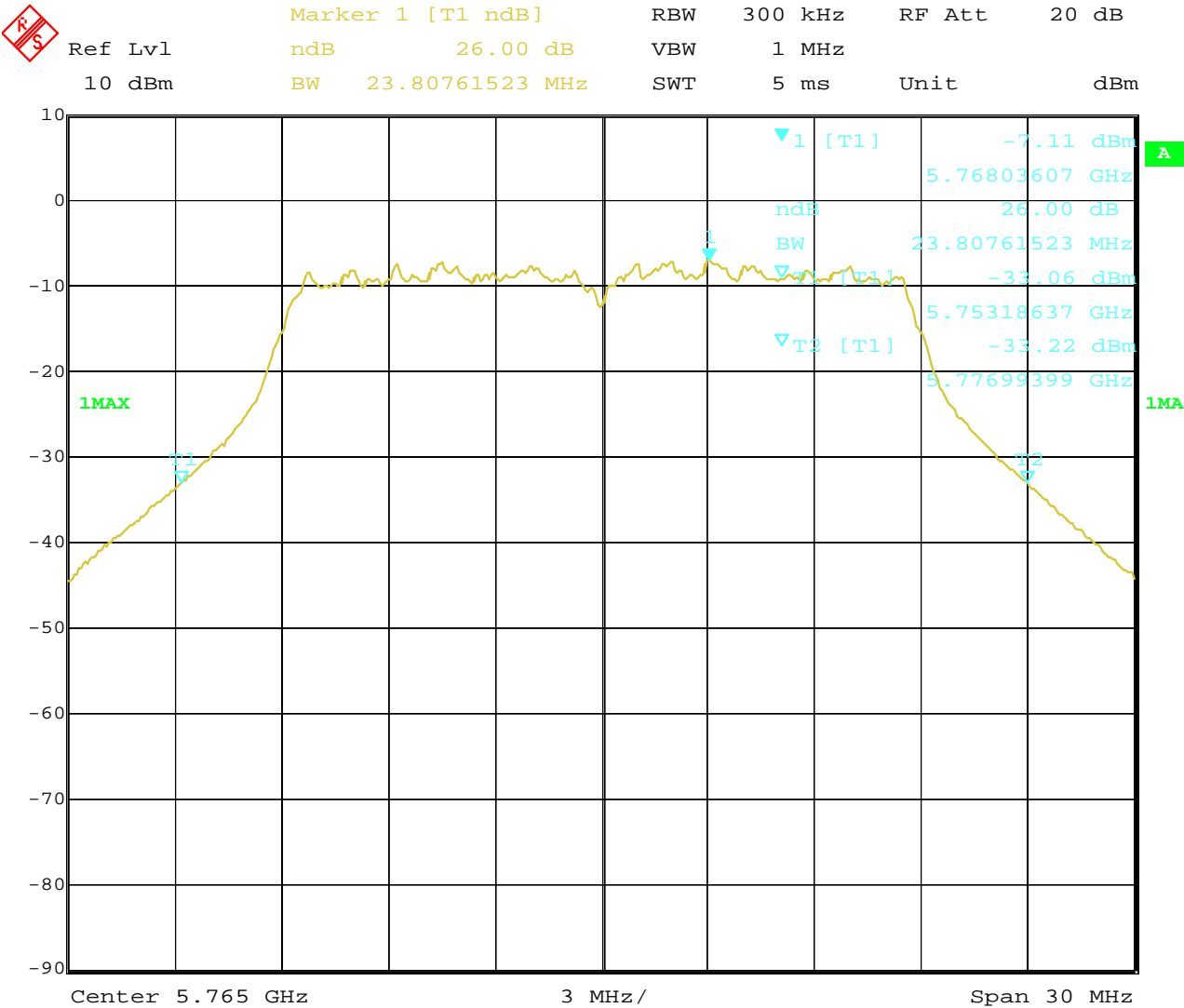
Channel 149



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



Date: 27.JUN.2022 17:18:24

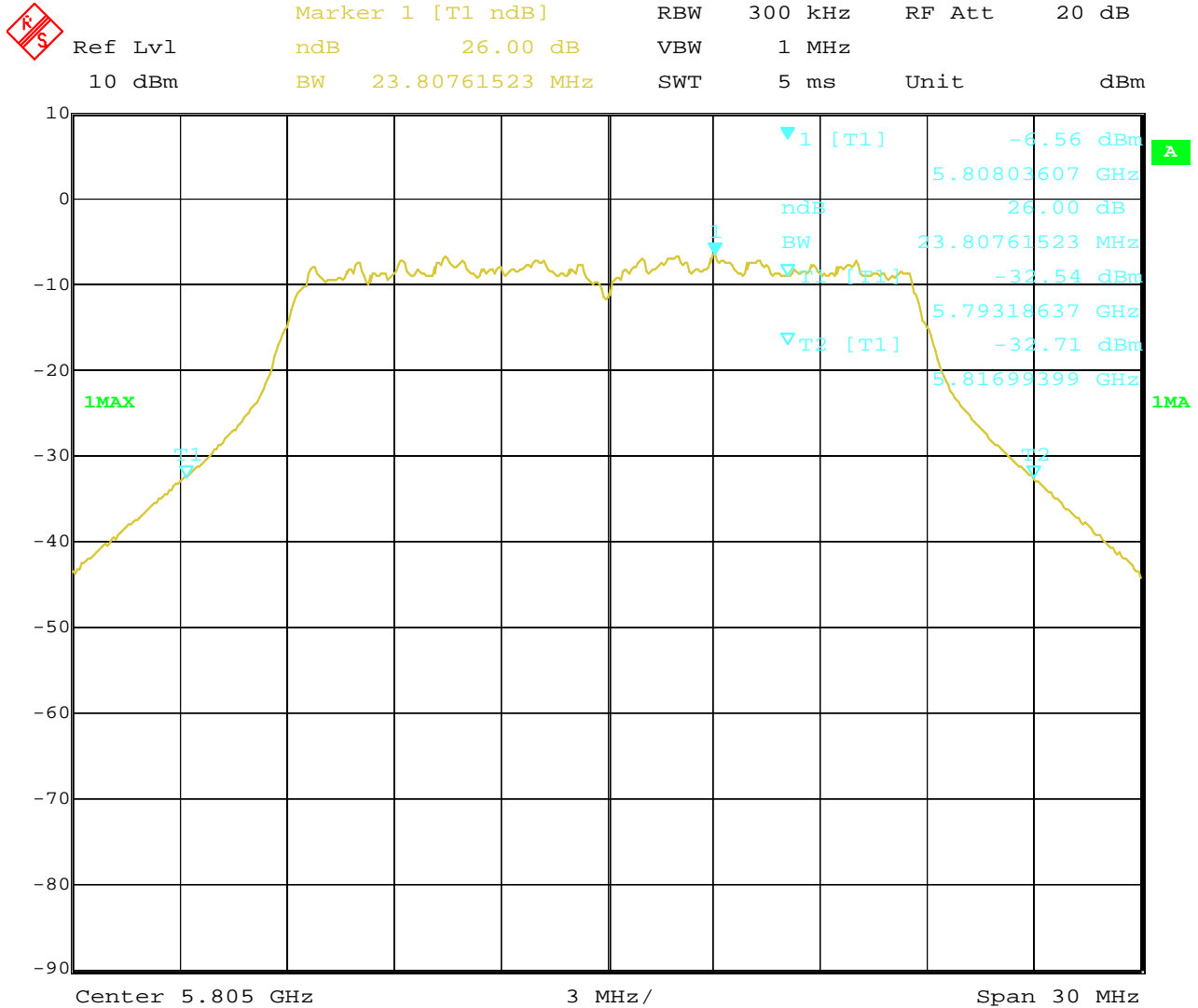
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Channel 161



Date: 27.JUN.2022 17:22:18

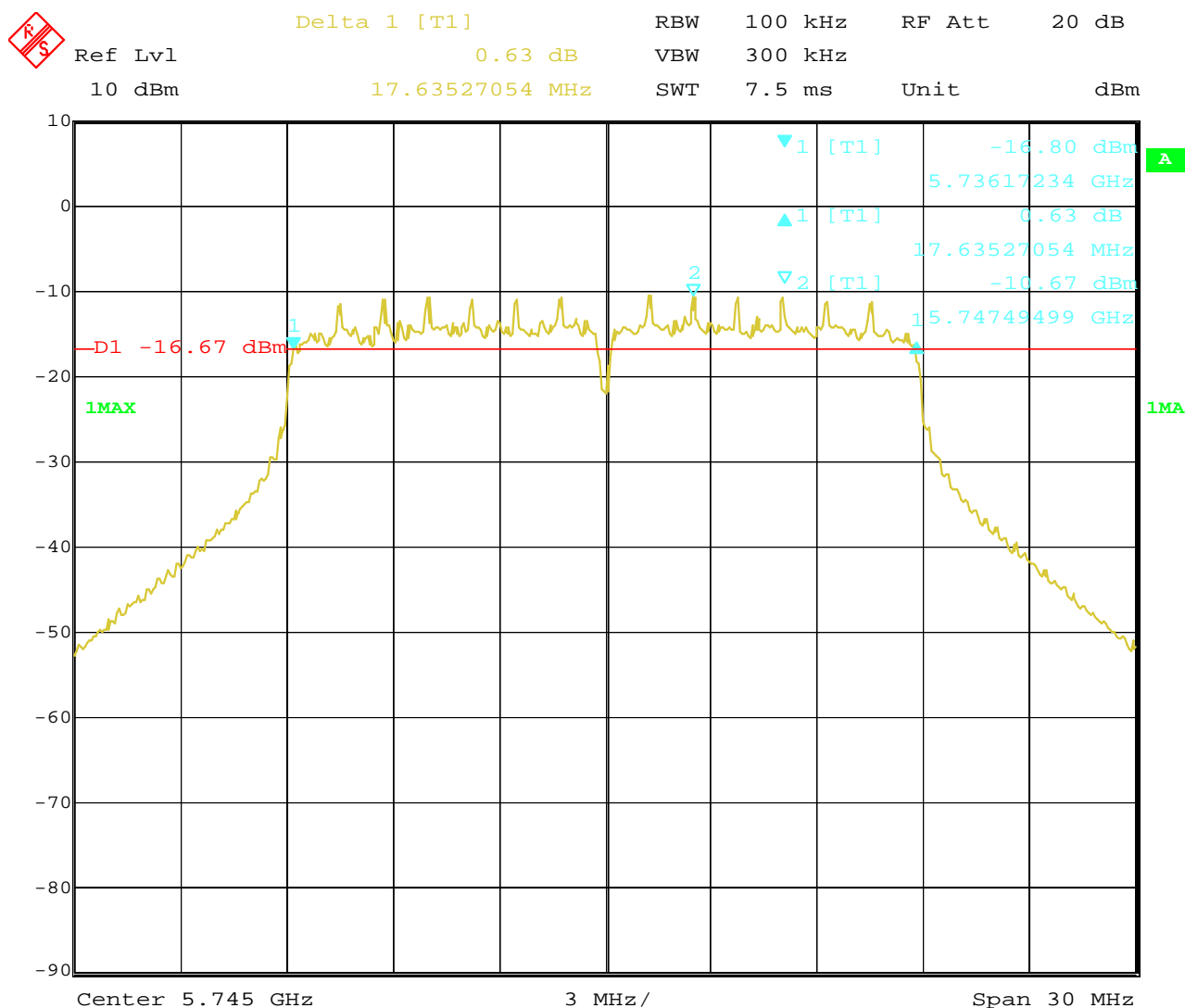
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## 6dB Bandwidth

Channel 149



Date: 27.JUN.2022 16:00:41

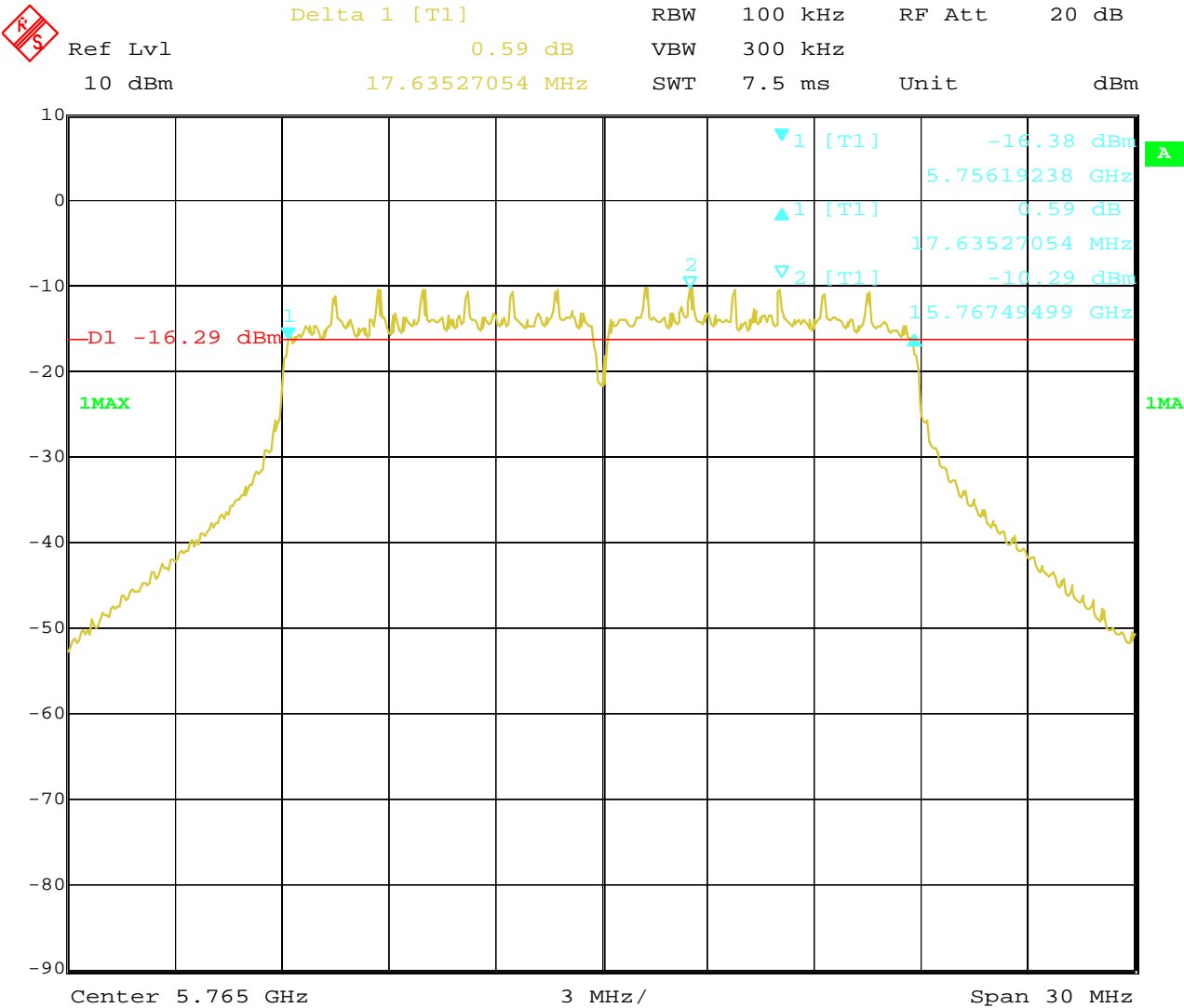
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Channel 153

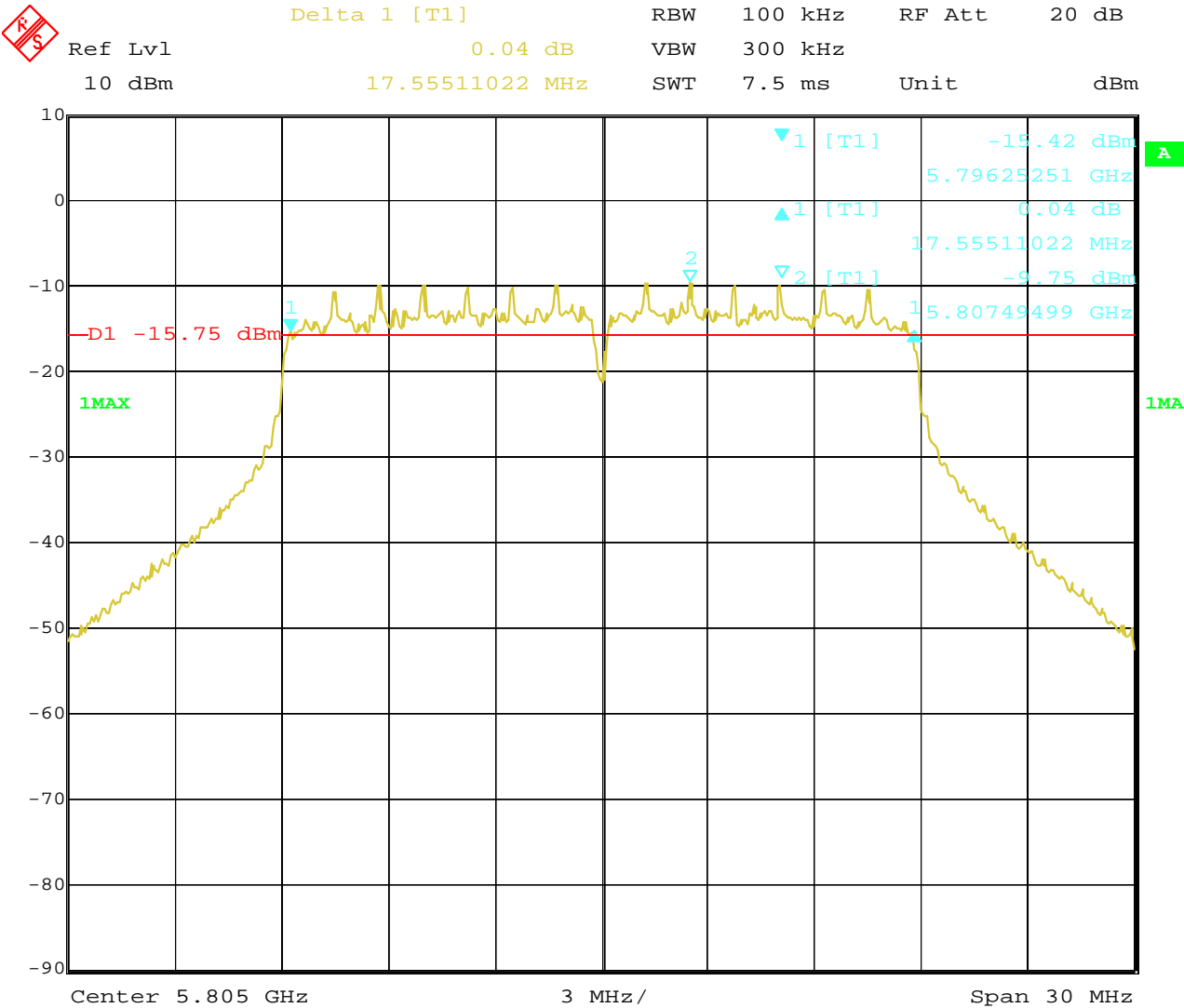


Date: 27.JUN.2022 16:04:06

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Channel 161



Date: 27.JUN.2022 16:11:06

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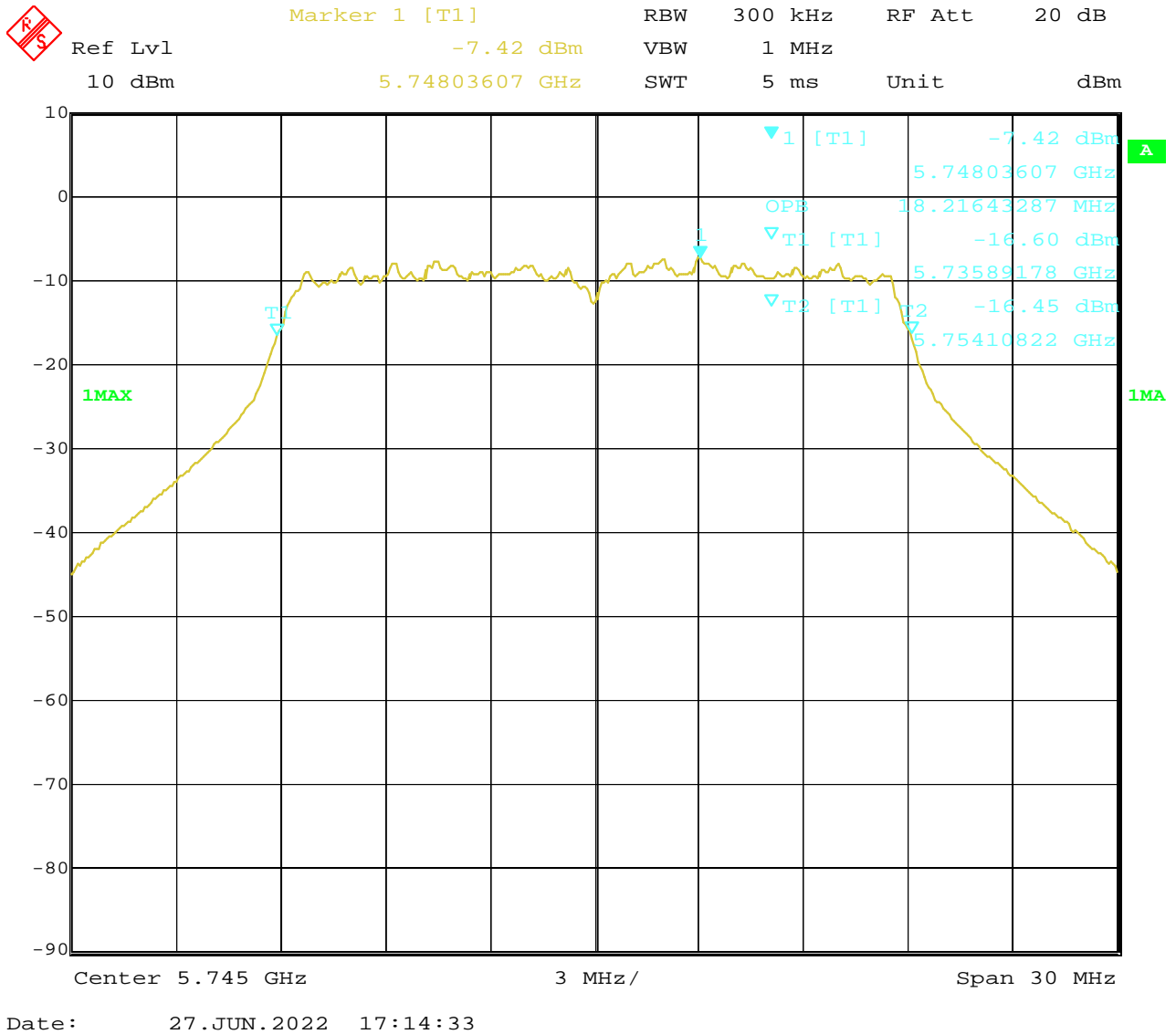




Test Configure

99% Bandwidth

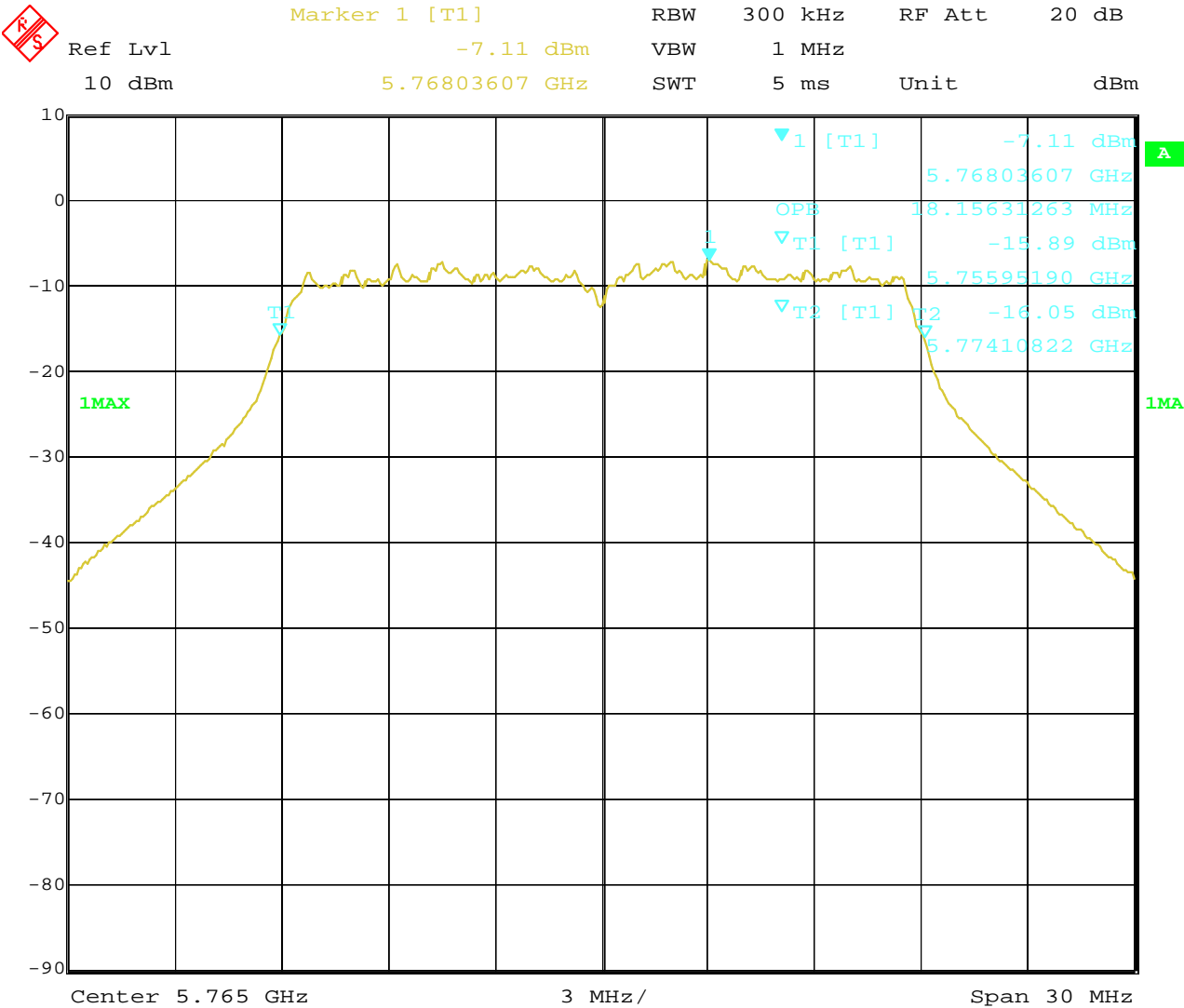
Channel 149



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



Date: 27.JUN.2022 17:18:12

The report refers only to the sample tested and does not apply to the bulk.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT40		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
38	5190	mcs0	45.33	--	Pass
46	5230	mcs0	45.45	--	Pass
<b>99% Bandwidth</b>					
38	5190	mcs0	37.15	--	Pass
46	5230	mcs0	37.15	--	Pass

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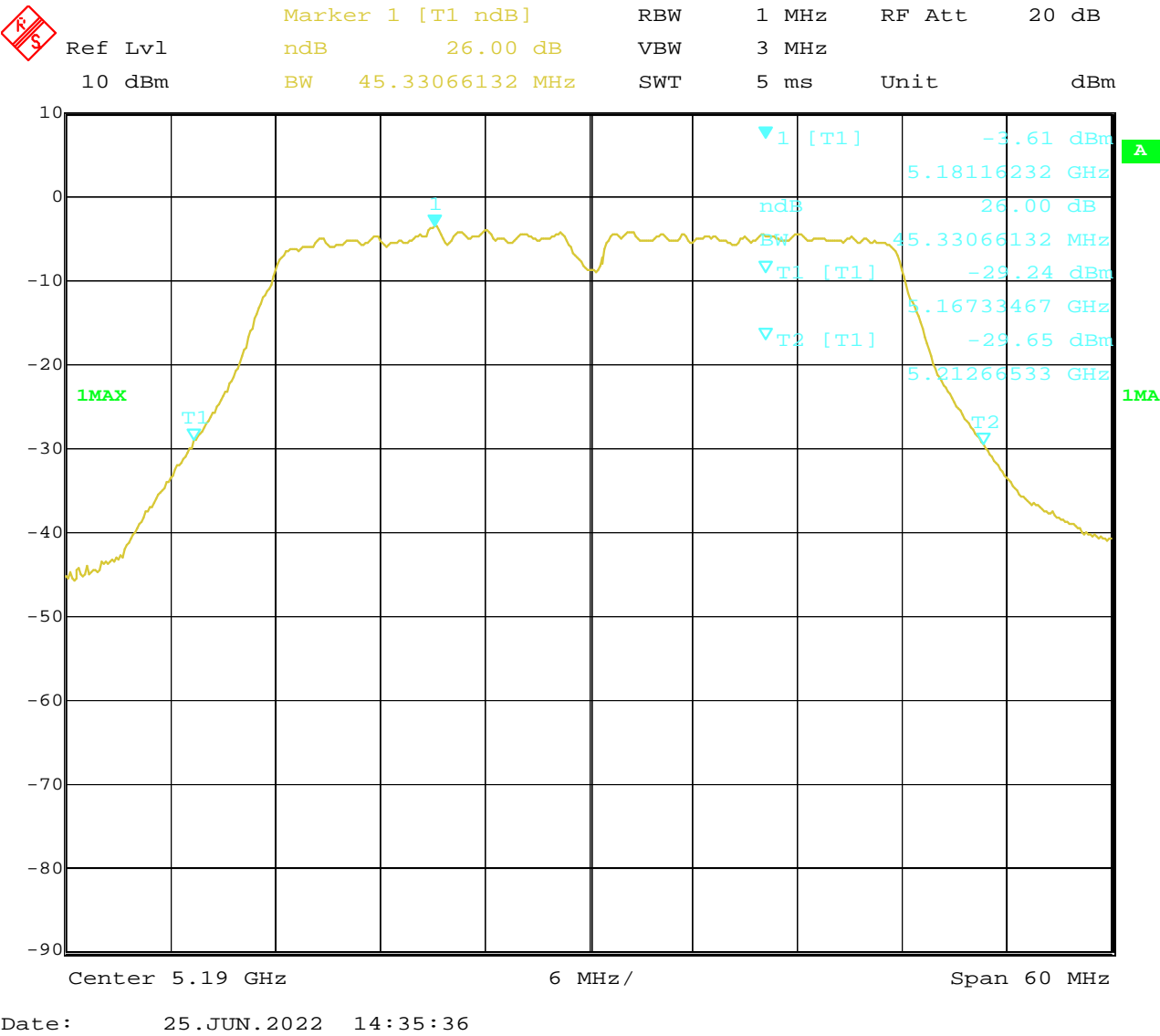
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Test Configure

26dB Bandwidth

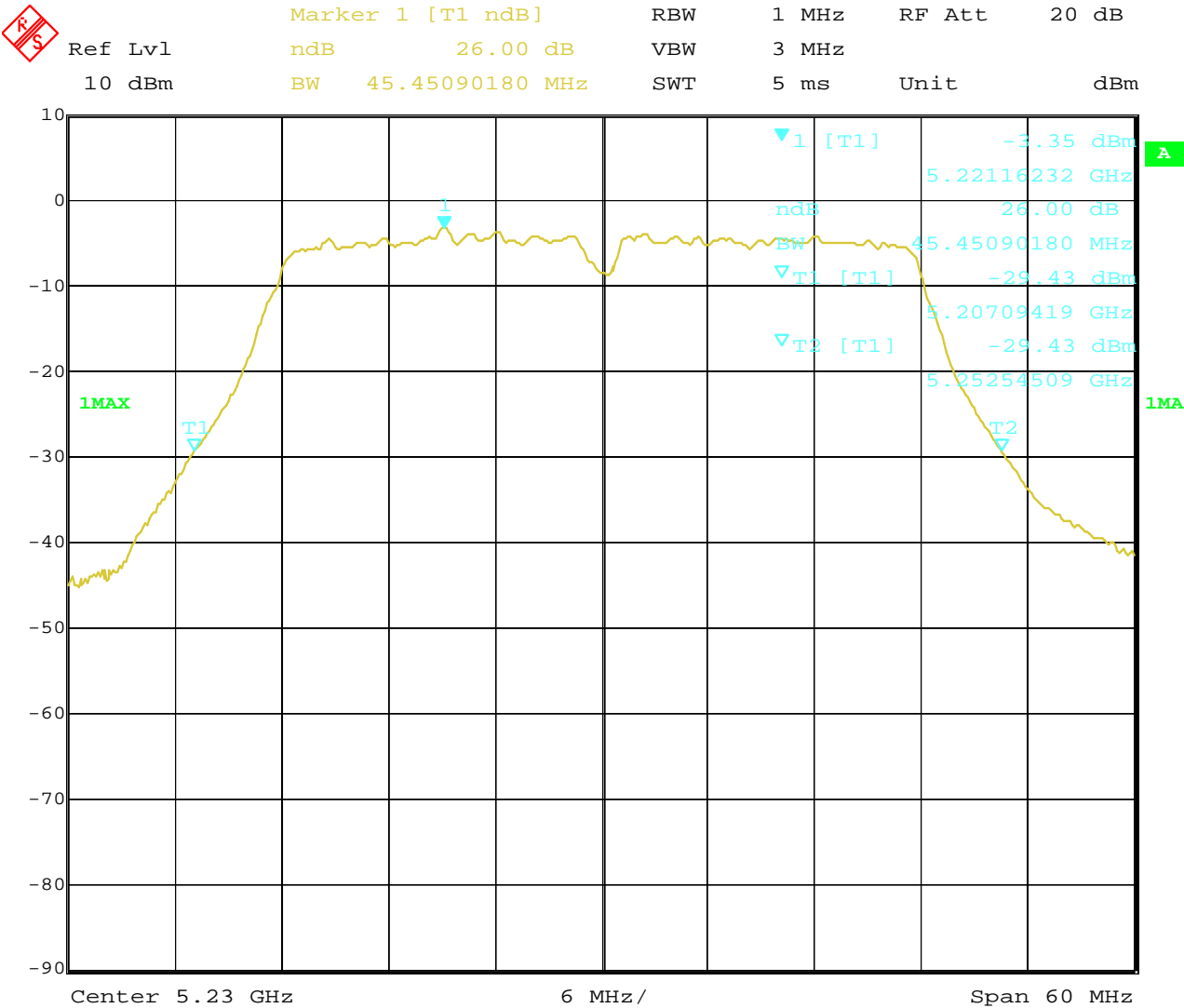
Channel 38



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 46



Date: 25.JUN.2022 14:32:25

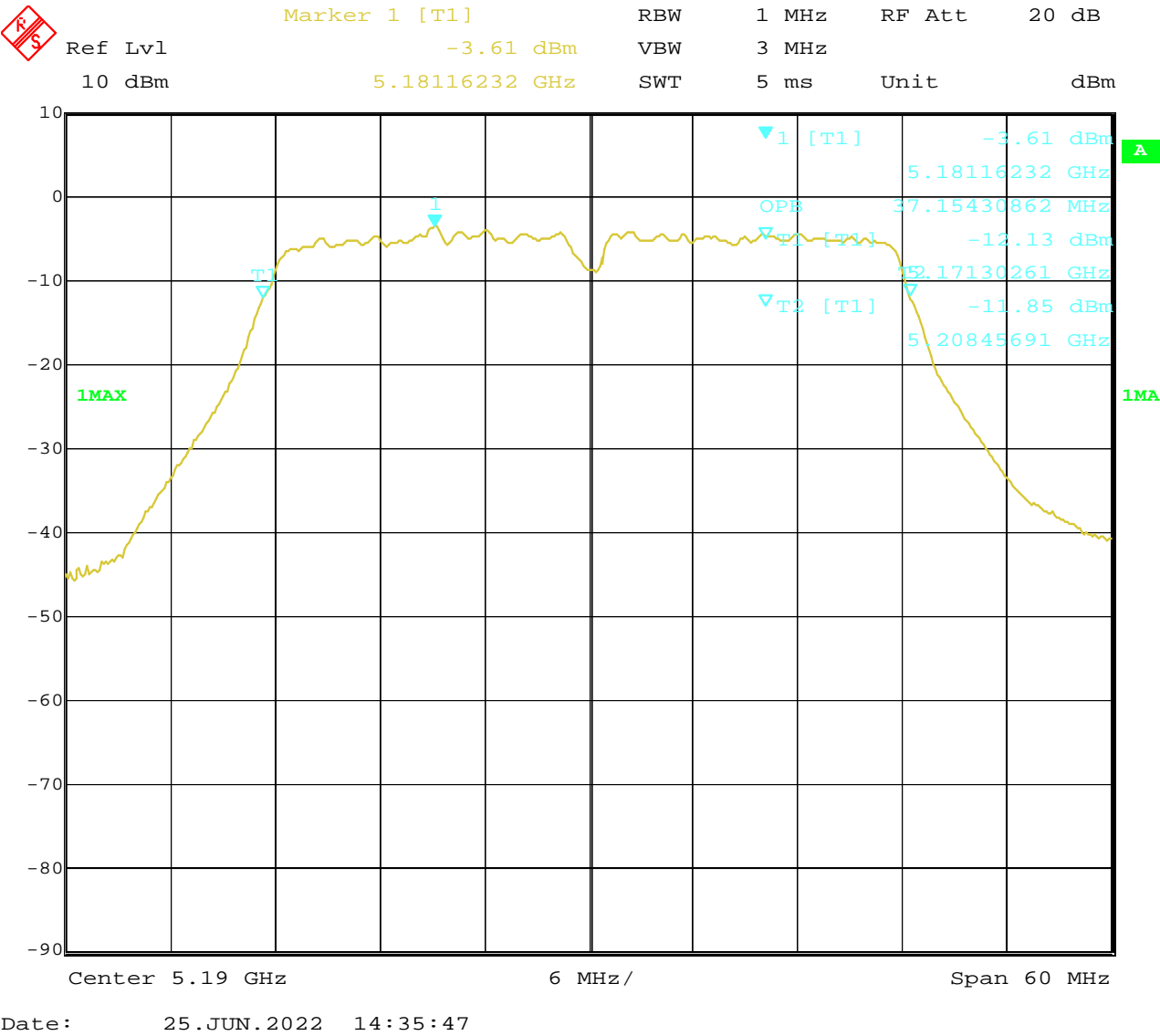
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Test Configure

99% Bandwidth

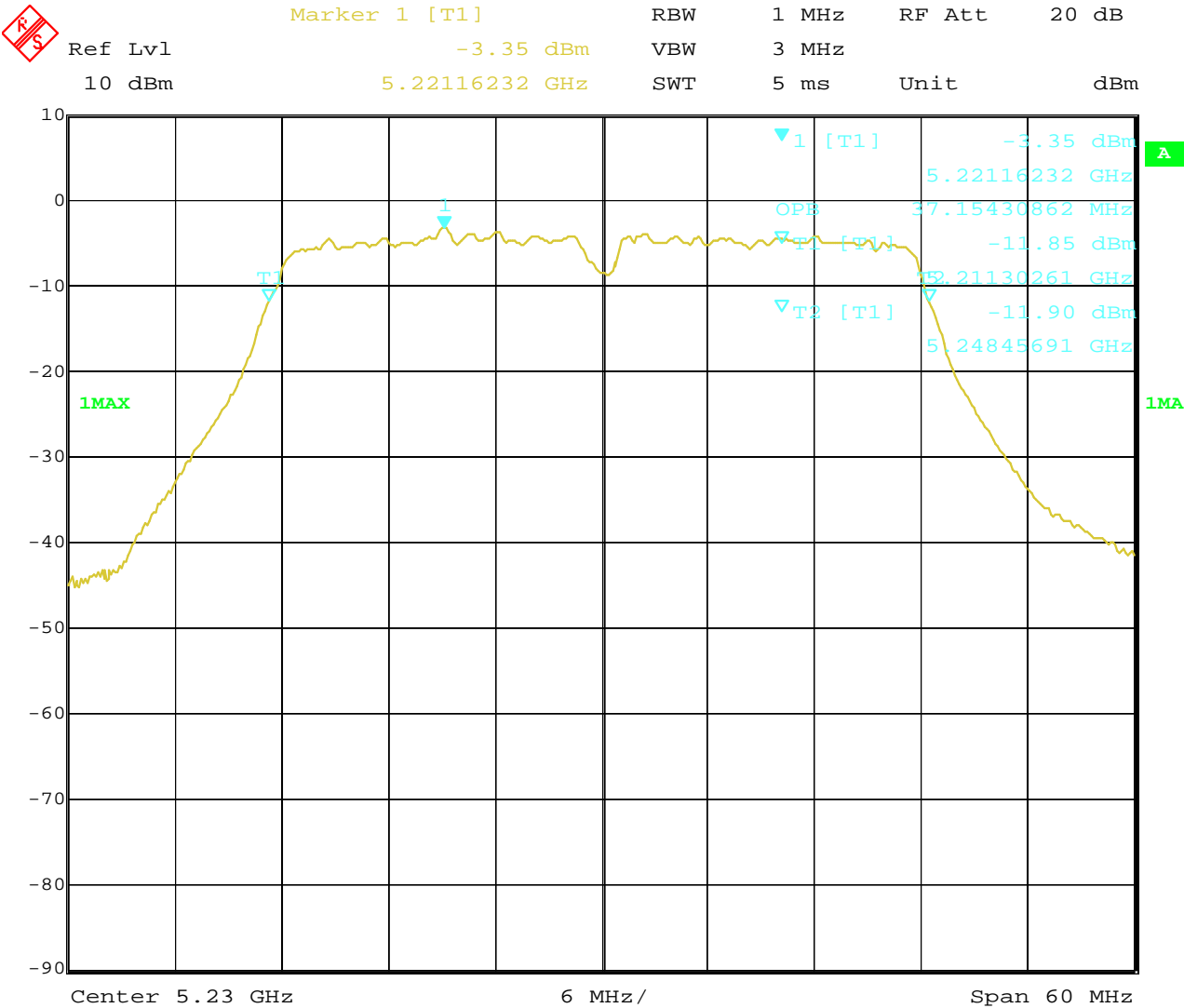
Channel 38



The report refers only to the sample tested and does not apply to the bulk.  
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Channel 46



Date: 25.JUN.2022 14:32:06

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT40		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
151	5755	mcs0	45.57	--	Pass
159	5795	mcs0	45.45	--	Pass
<b>6dB Bandwidth</b>					
151	5755	mcs0	36.23	0.5	Pass
159	5795	mcs0	36.14	0.5	Pass
<b>99% Bandwidth</b>					
151	5755	mcs0	37.15	--	Pass
159	5795	mcs0	37.15	--	Pass

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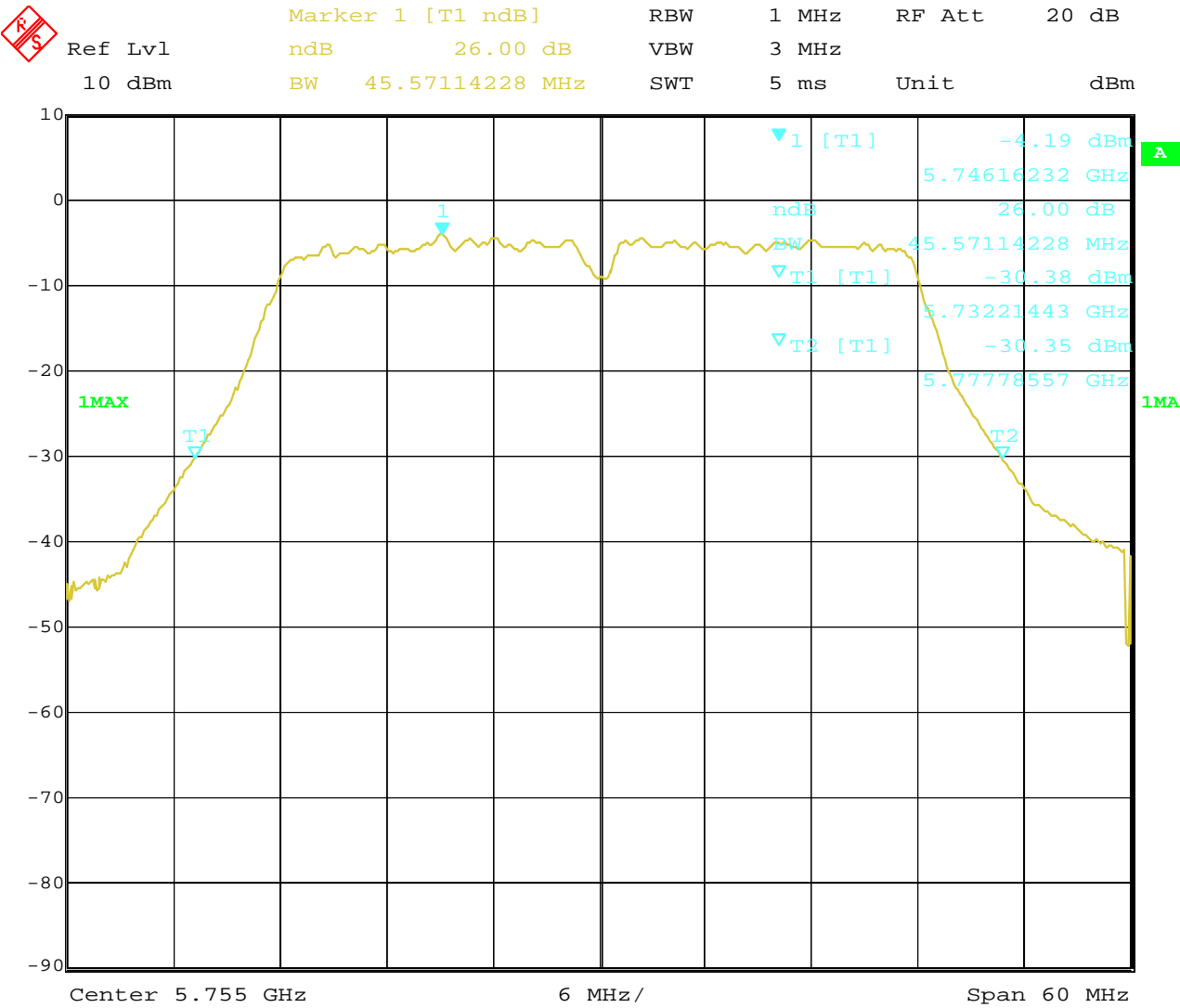
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 151

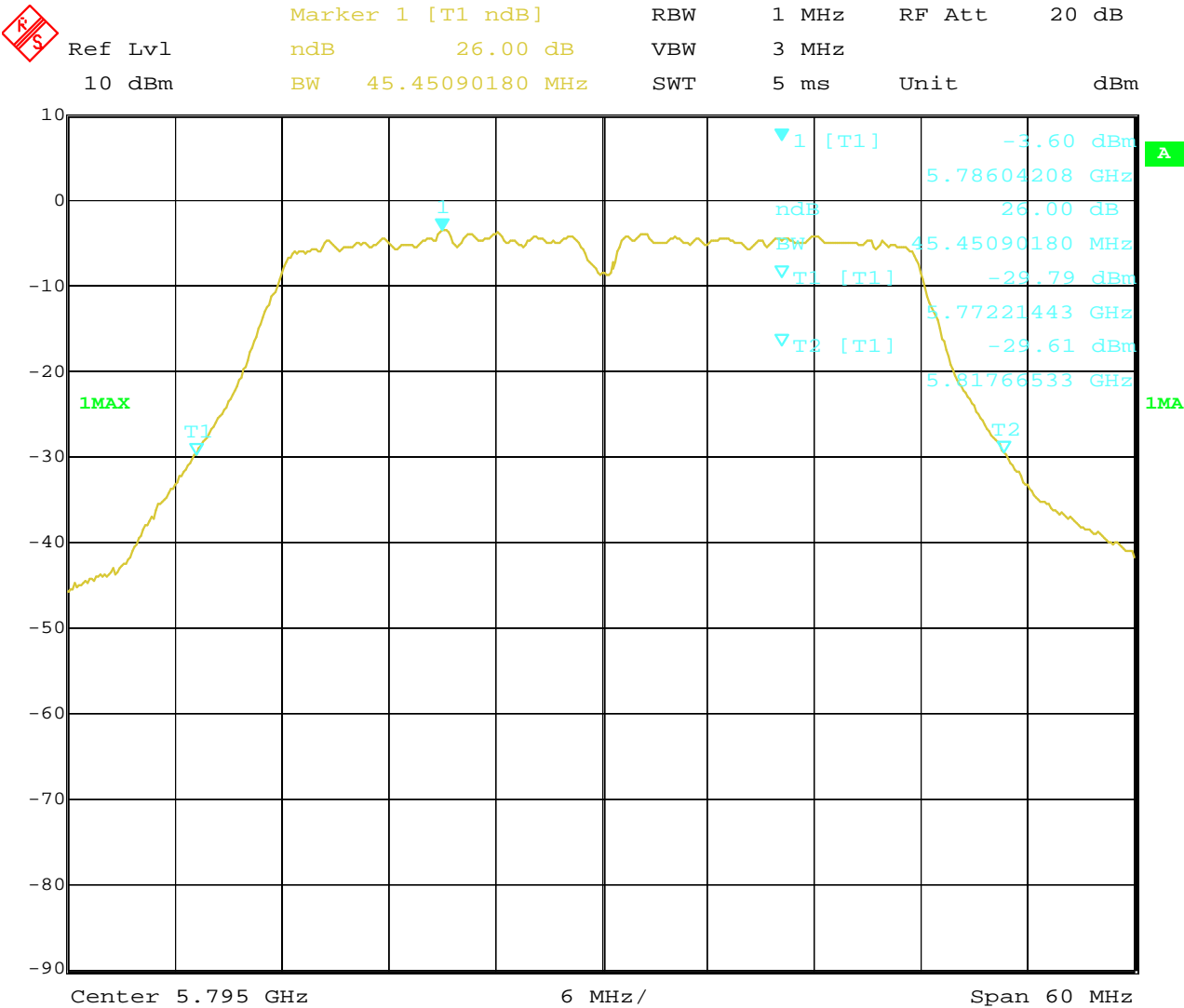


Date: 27.JUN.2022 16:33:31

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Channel 159



Date: 27.JUN.2022 16:35:46

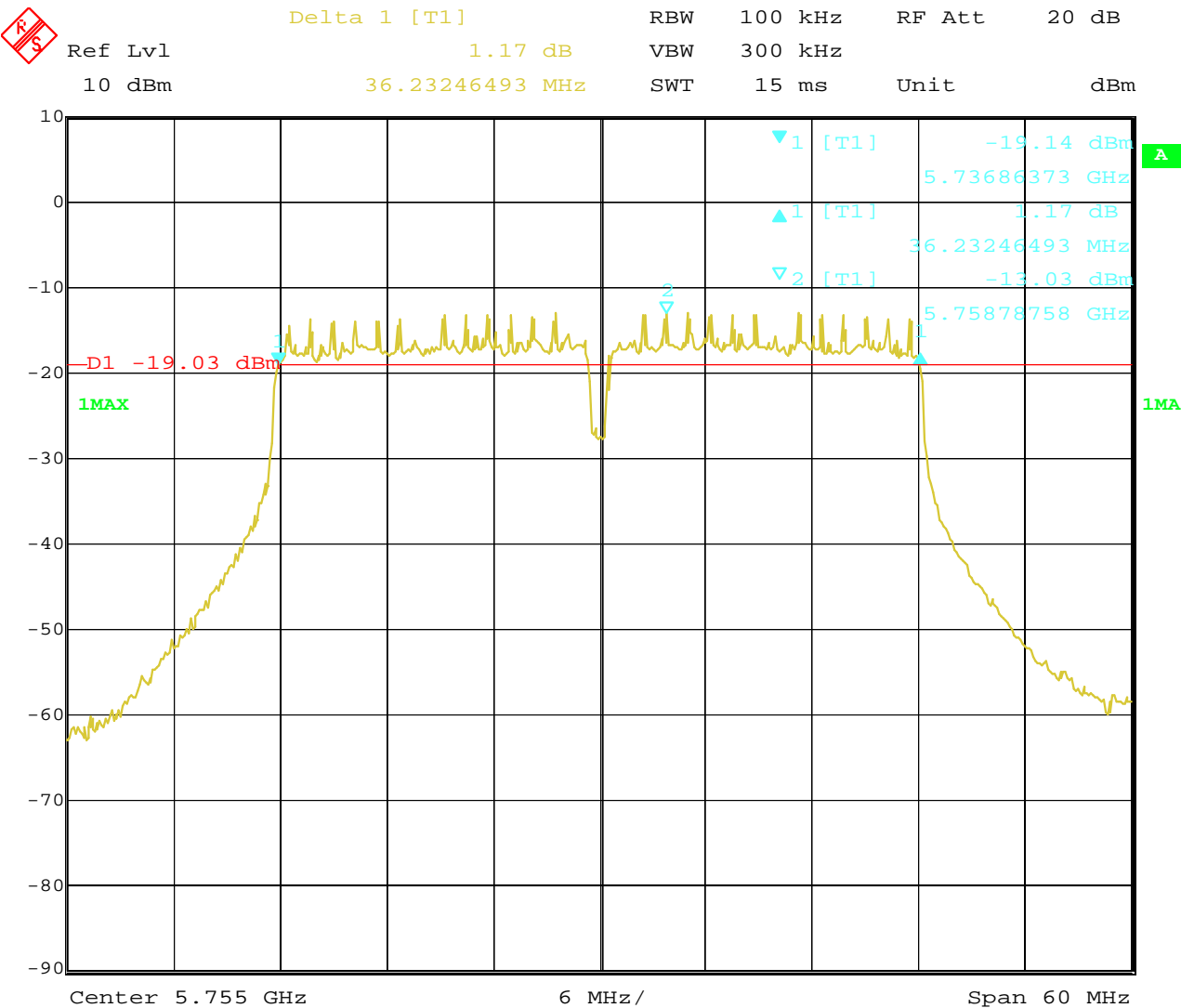
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Test Configure

6dB Bandwidth

Channel 151



Date: 27.JUN.2022 16:21:42

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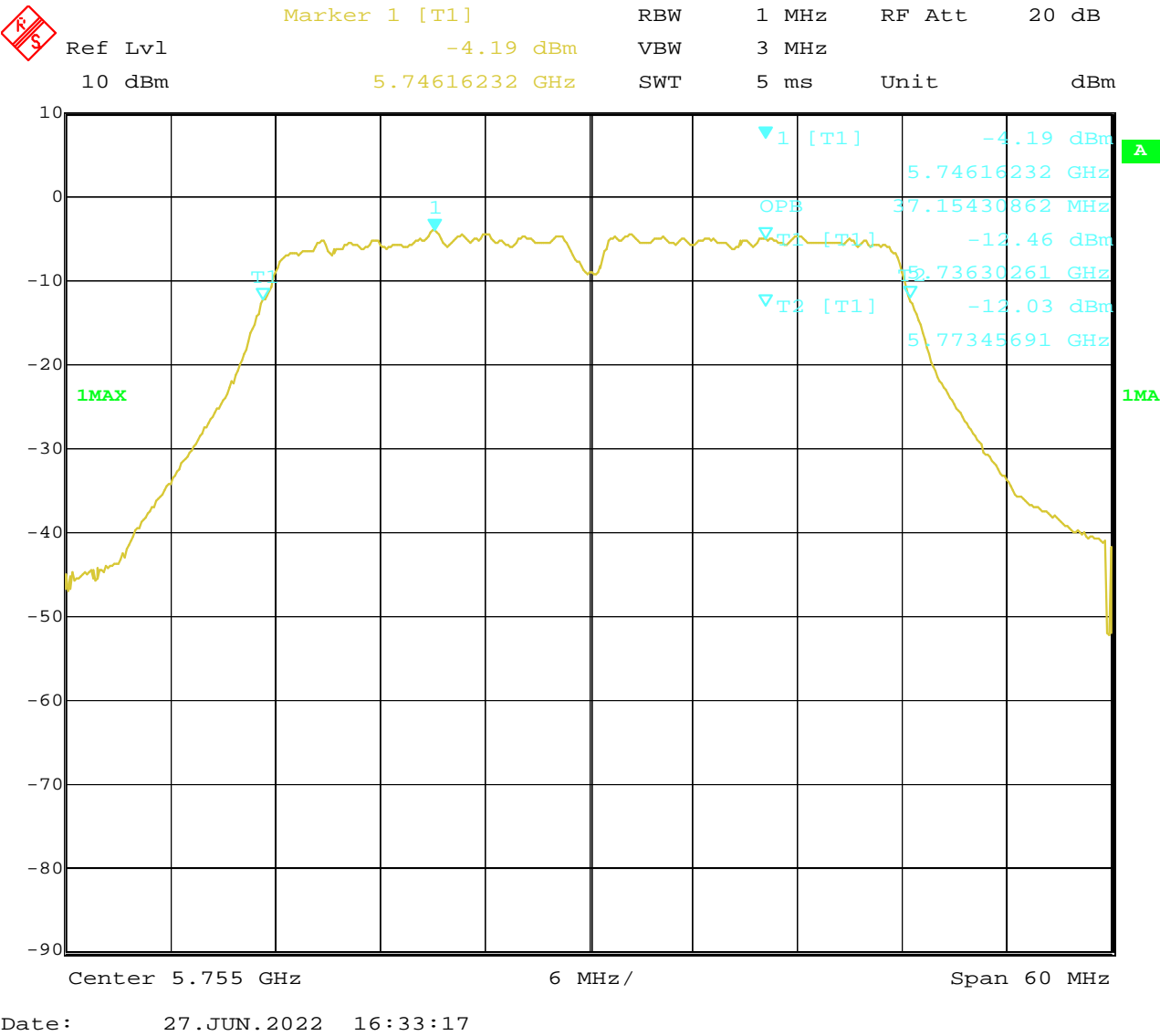
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Test Configure

99% Bandwidth

Channel 151



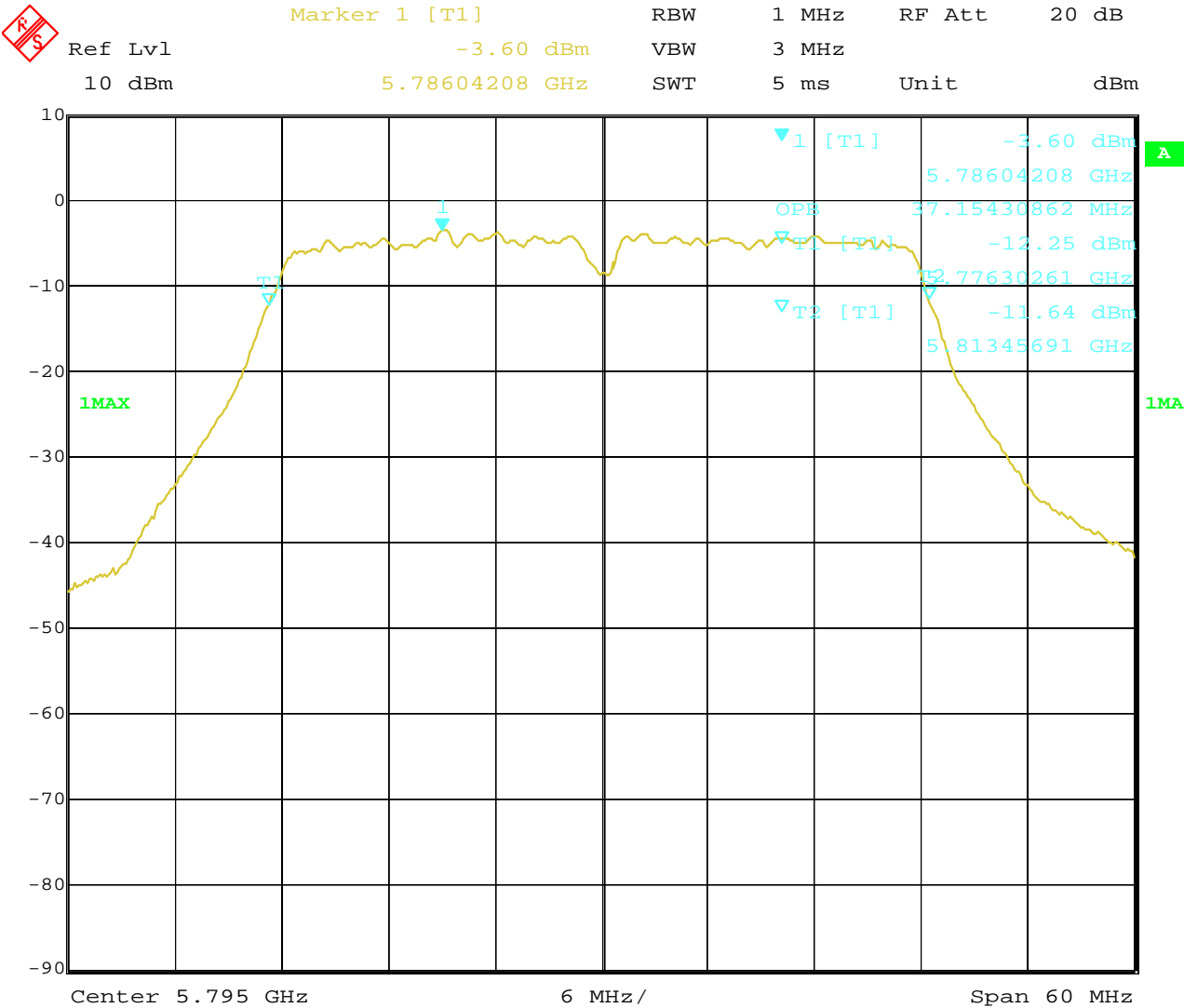
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Channel 159



Date: 27.JUN.2022 16:36:03

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT80		Input Voltage	DC3.85V
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	85.61	--	Pass
99% Bandwidth					
42	5210	mcs0	75.99	--	Pass

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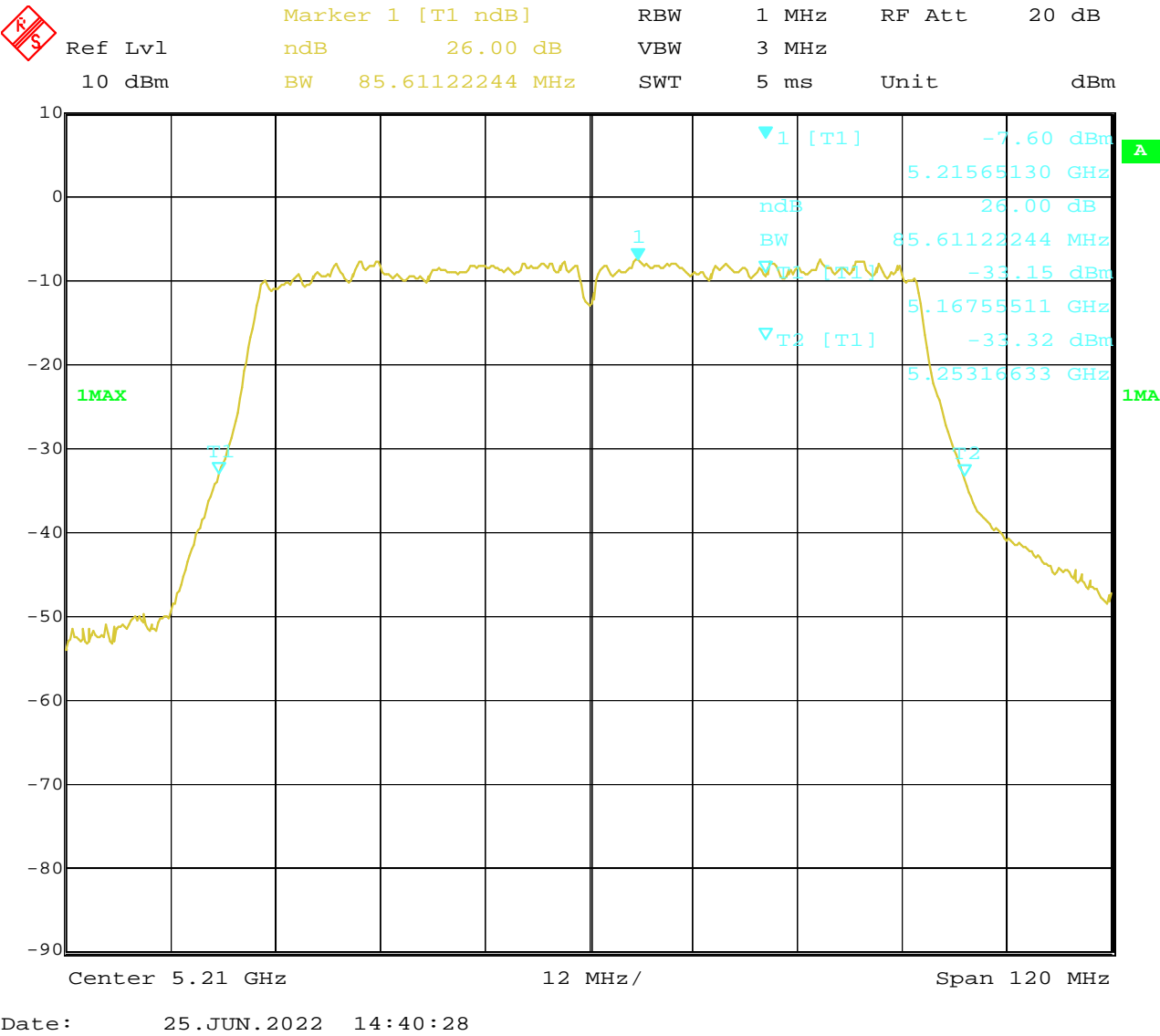




Test Configure

26dB Bandwidth

Channel 42



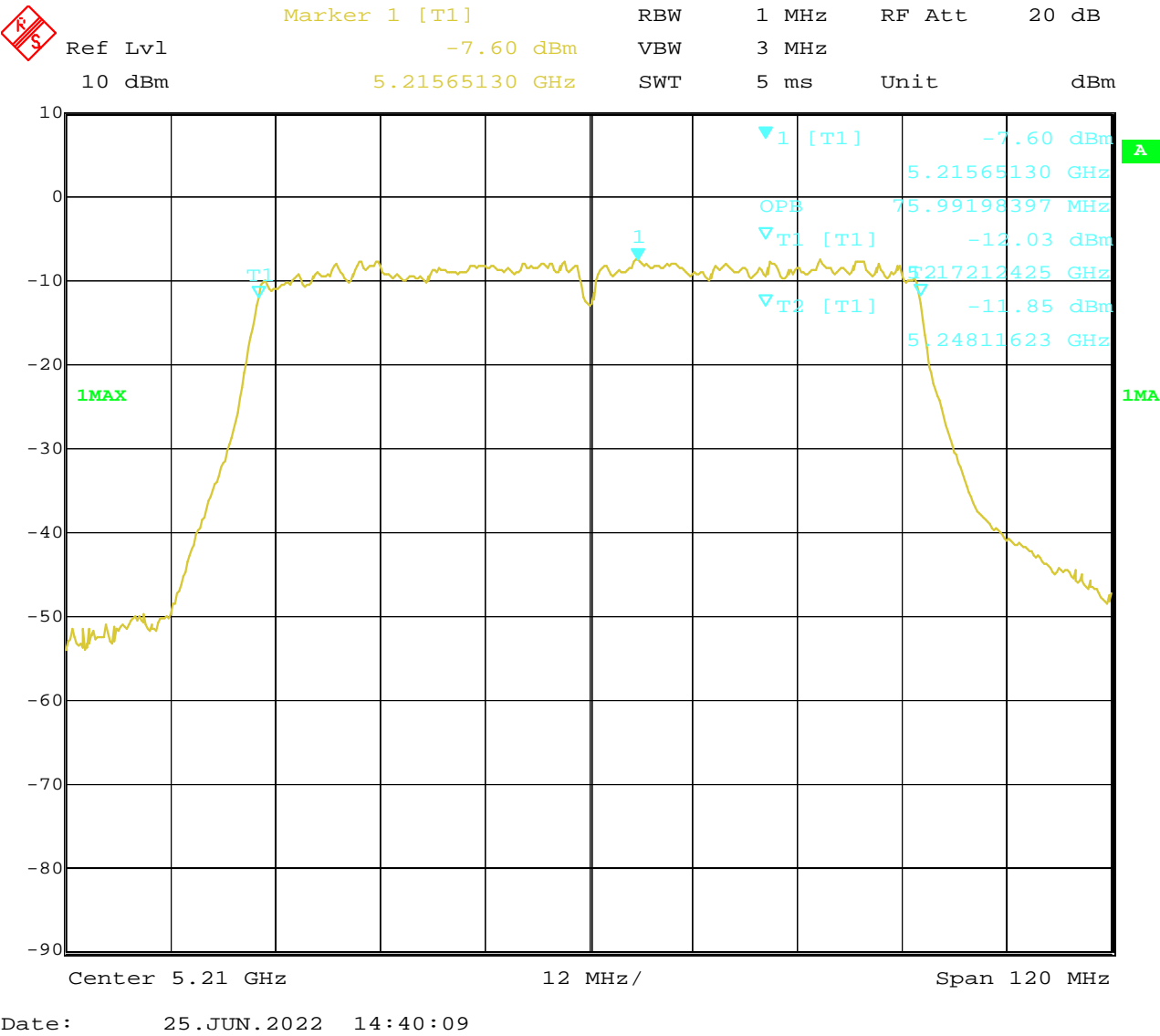
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Test Configure

99% Bandwidth

Channel 42



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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT80		Input Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
<b>26dB Bandwidth</b>					
155	5775	mcs0	85.85	--	Pass
<b>6dB Bandwidth</b>					
155	5775	mcs0	75.75	0.5	Pass
<b>99% Bandwidth</b>					
155	5775	mcs0	75.99	--	Pass

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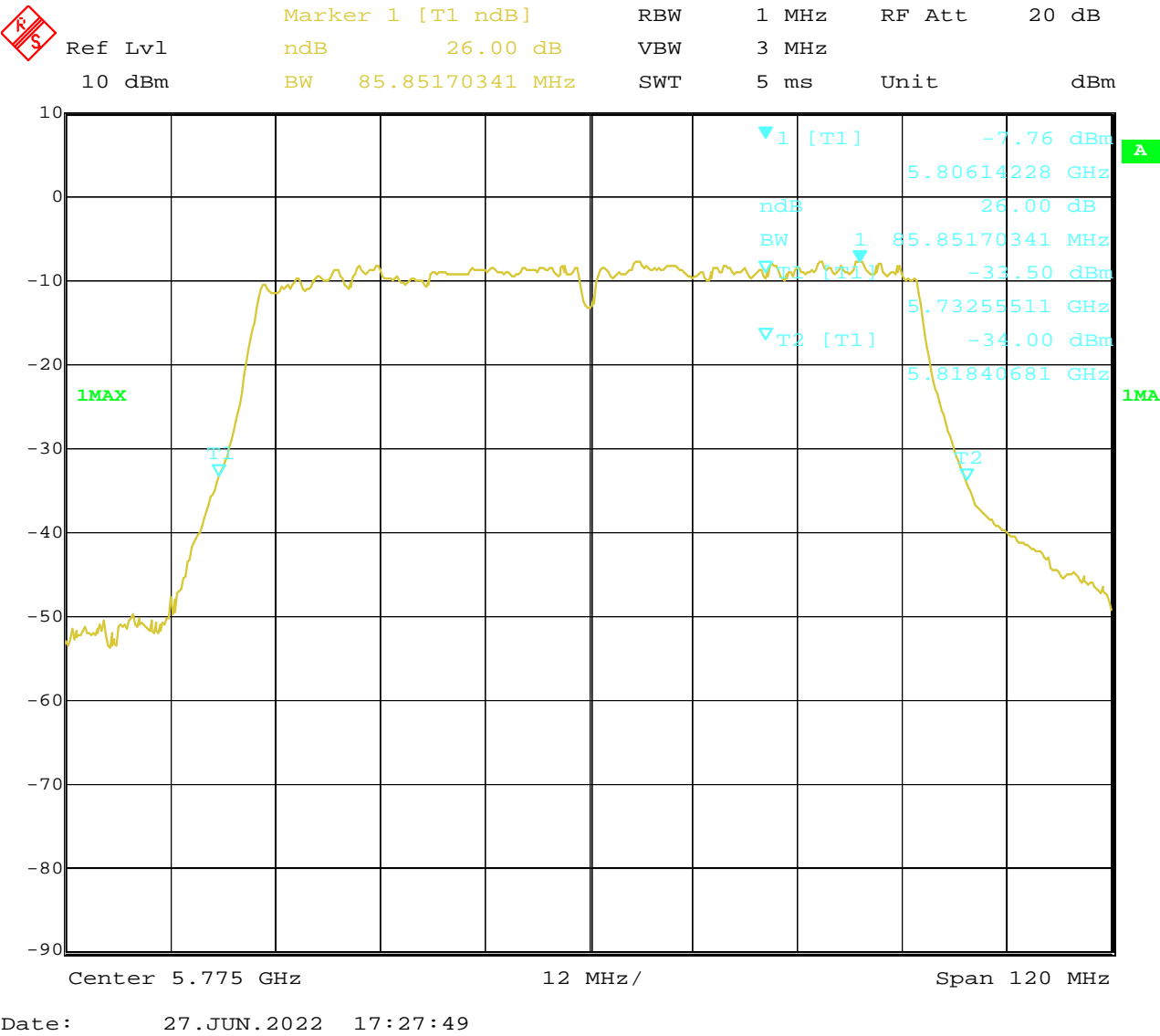
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Test Configure

26dB Bandwidth

Channel 155

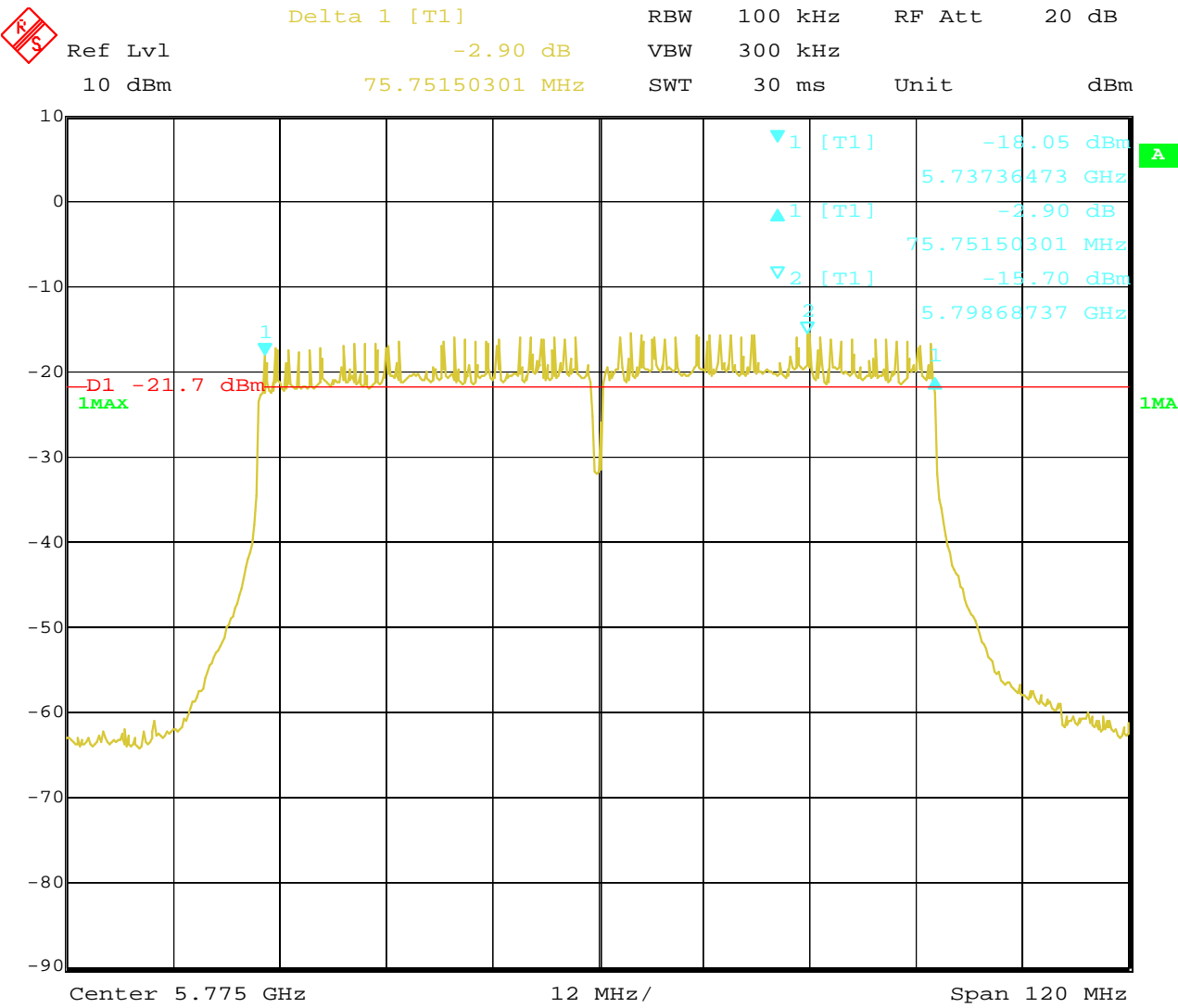


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6dB Bandwidth

Channel 155



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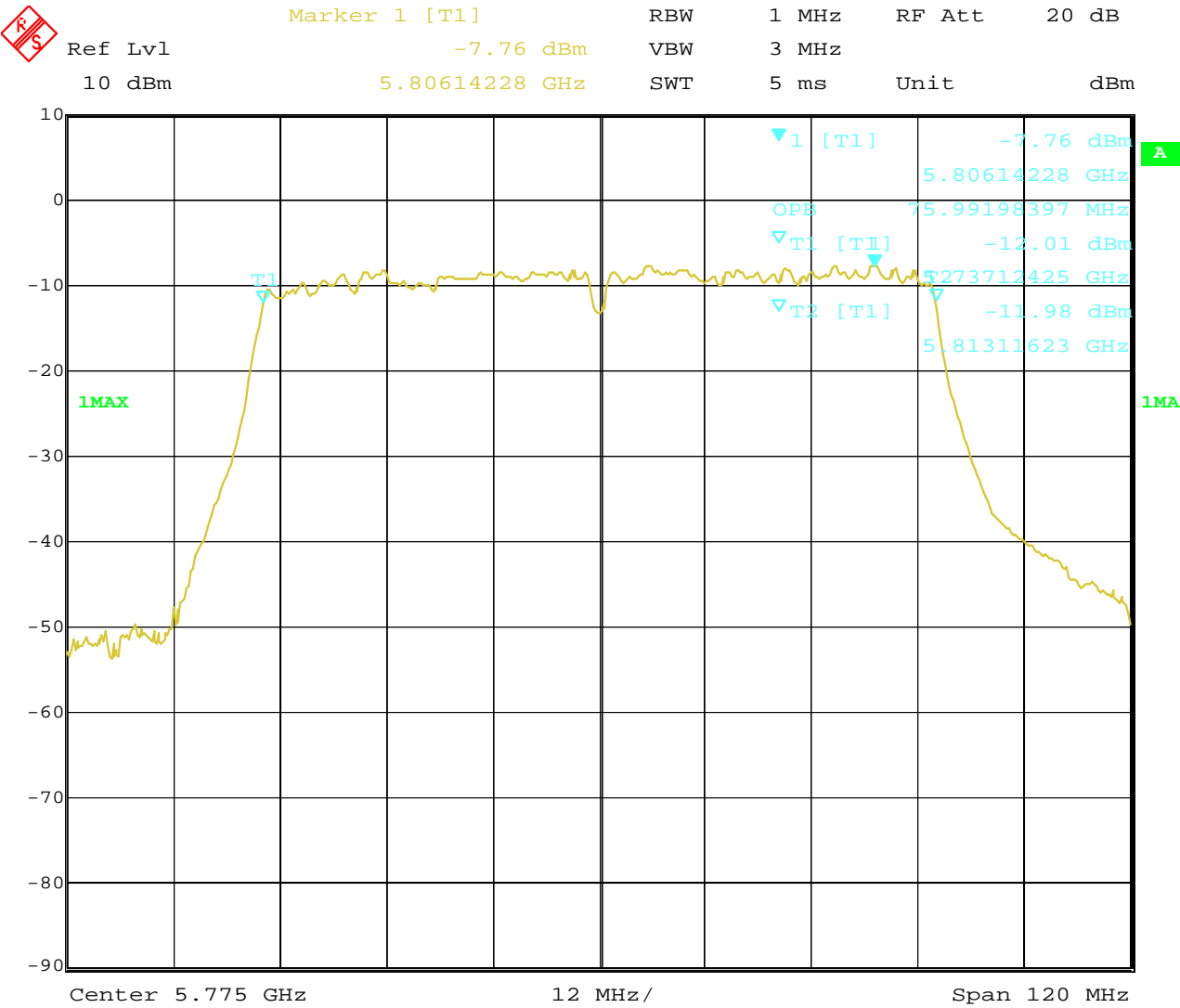
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Test Configure

99% Bandwidth

Channel 155



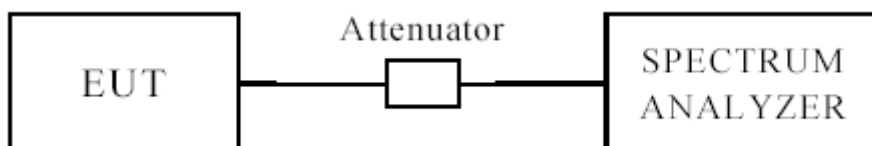
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## 8.0 Peak Transmit Power Measurement

### 8.1 Test Setup



### 8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) $\cong$ (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		TQSky Tbox		Model	TBOX
Mode		802.11a		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-3.88		24	Pass
40	5200	-3.68		24	Pass
48	5240	-3.50		24	Pass
149	5745	-4.09		30	Pass
153	5765	-3.76		30	Pass
161	5805	-3.33		30	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT20		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-4.38		24	Pass
40	5200	-4.16		24	Pass
48	5240	-3.97		24	Pass
149	5745	-4.65		30	Pass
153	5765	-4.33		30	Pass
161	5805	-3.81		30	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 worse case was recorded

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT40		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
38	5190	-6.26		24	Pass
46	5230	-5.96		24	Pass
151	5755	-6.66		30	Pass
159	5795	-6.08		30	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 worse case was recorded

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT20		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-4.32		24	Pass
40	5200	-4.08		24	Pass
48	5240	-3.90		24	Pass
149	5745	-4.63		30	Pass
153	5765	-4.35		30	Pass
161	5805	-3.86		30	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 worse case was recorded

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EUT		TQSky Tbox	Model	TBOX
Mode		802.11ac VHT40	Test Voltage	DC3.85V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
38	5190	-6.23	24	Pass
46	5230	-5.95	24	Pass
151	5755	-6.71	30	Pass
159	5795	-6.11	30	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 worse case was recorded

EUT		TQSky Tbox	Model	TBOX
Mode		802.11ac VHT80	Test Voltage	DC3.85V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
42	5210	-8.85	24	Pass
155	5775	-9.17	30	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 worse case was recorded

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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

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		TQSky Tbox		Model	TBOX
Mode		802.11a 6Mbps		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)		Pass/ Fail
36	5180	-9.18	11		Pass
40	5200	-8.69	11		Pass
48	5240	-8.62	11		Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)		Pass/ Fail
149	5745	-9.87	30		Pass
153	5765	-9.75	30		Pass
161	5805	-9.24	30		Pass

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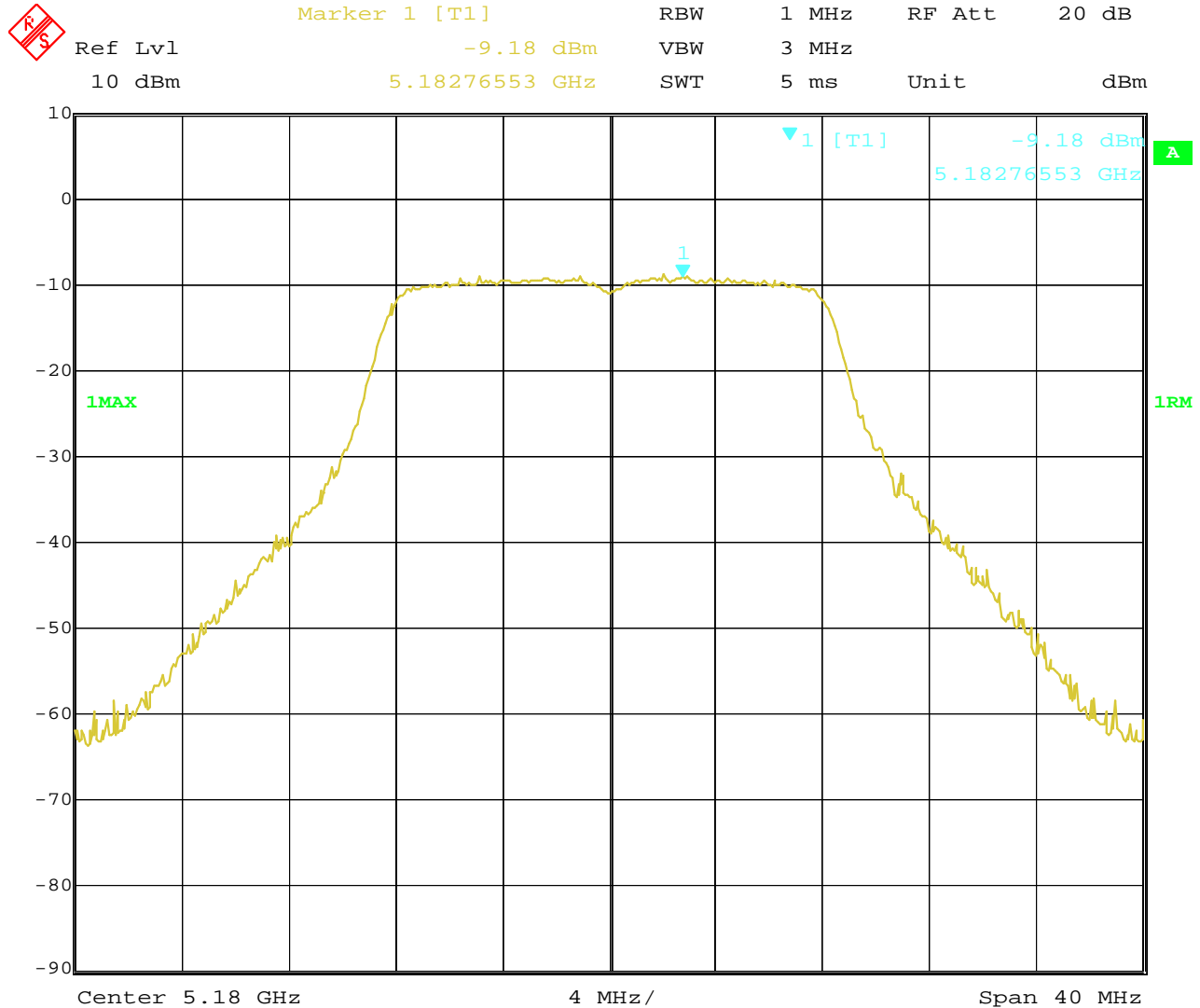
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## 9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



Date: 25.JUN.2022 16:31:50

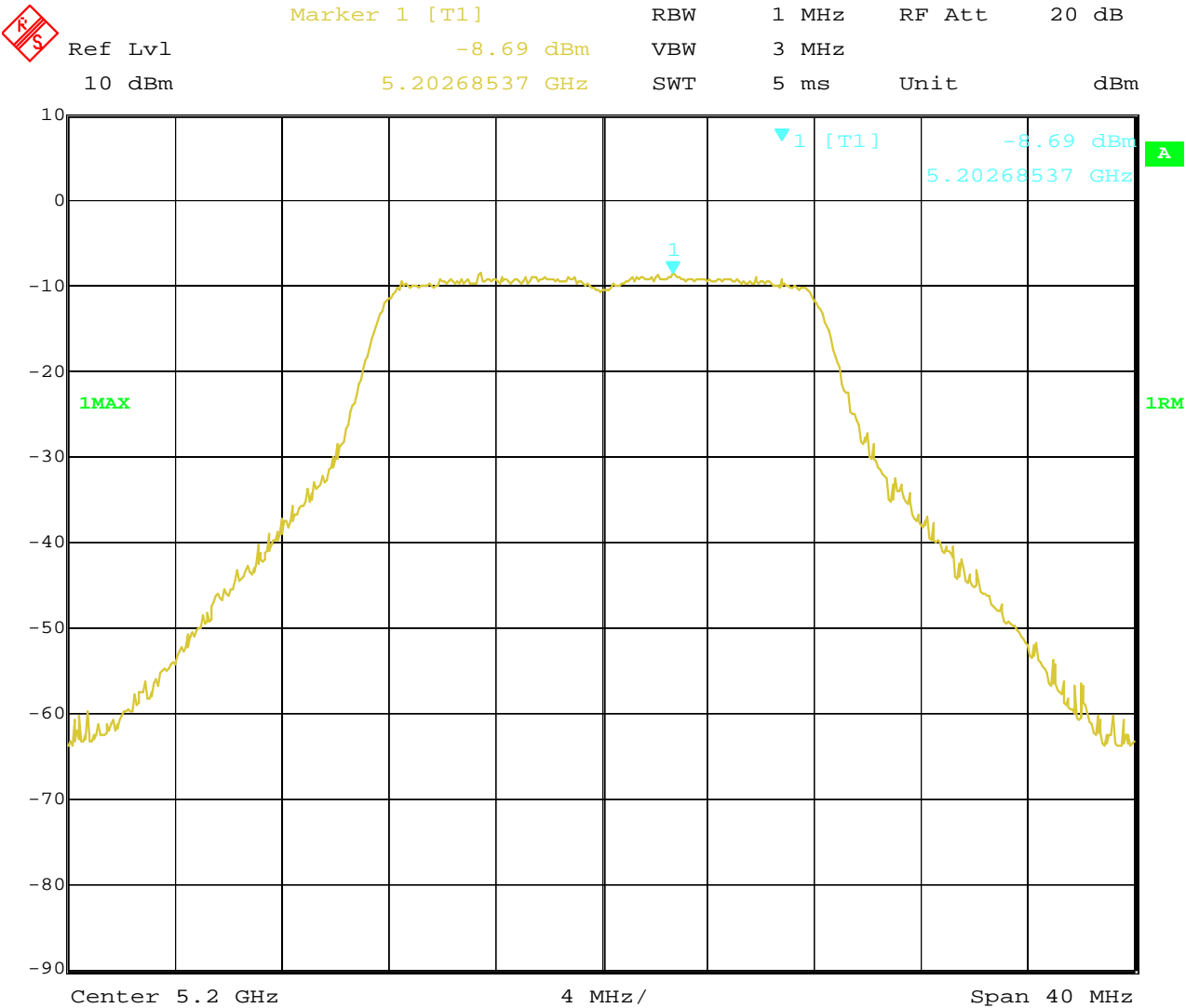
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2.802.11a at 6Mbps of CH40



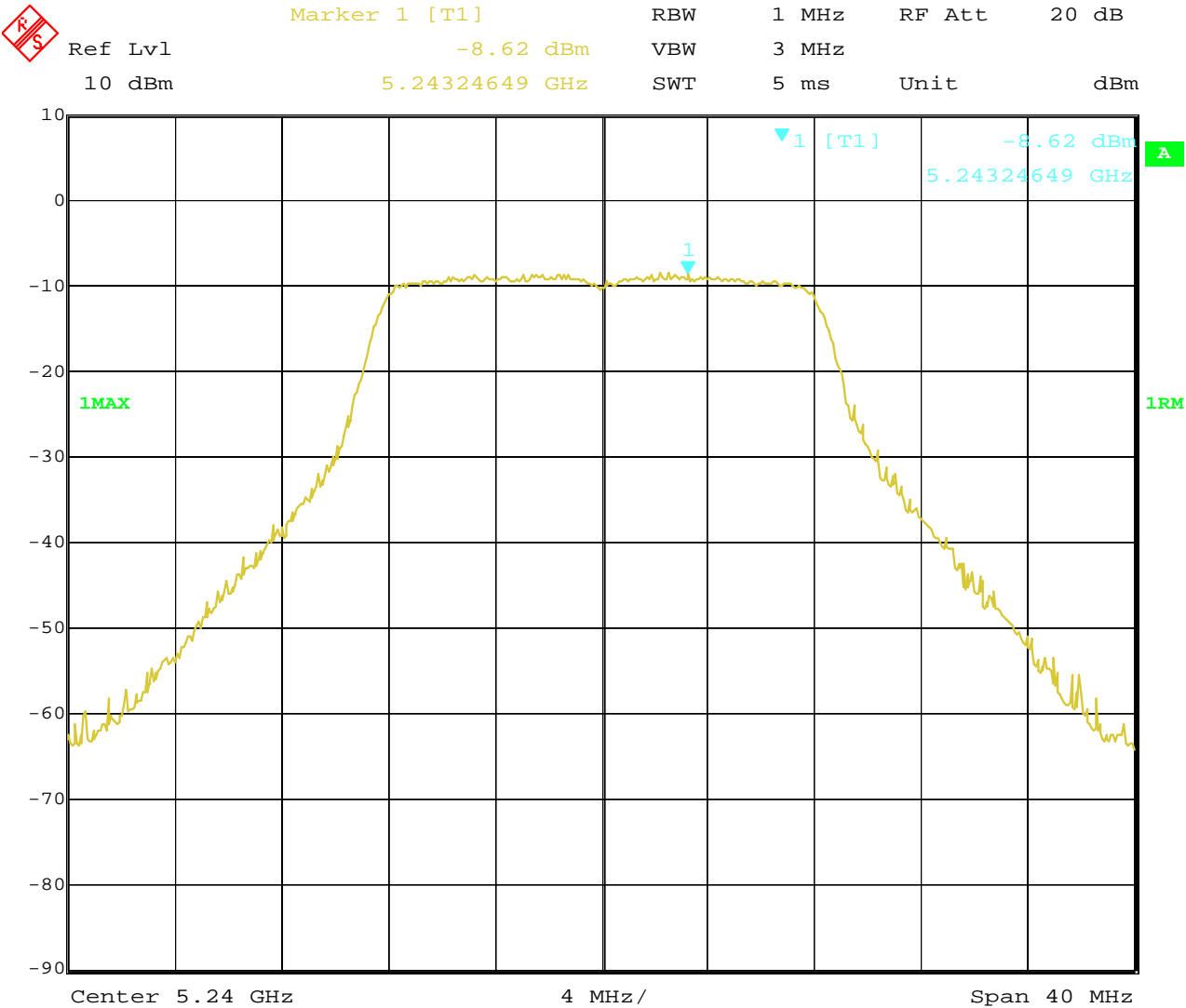
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3.802.11a at 6Mbps of CH48

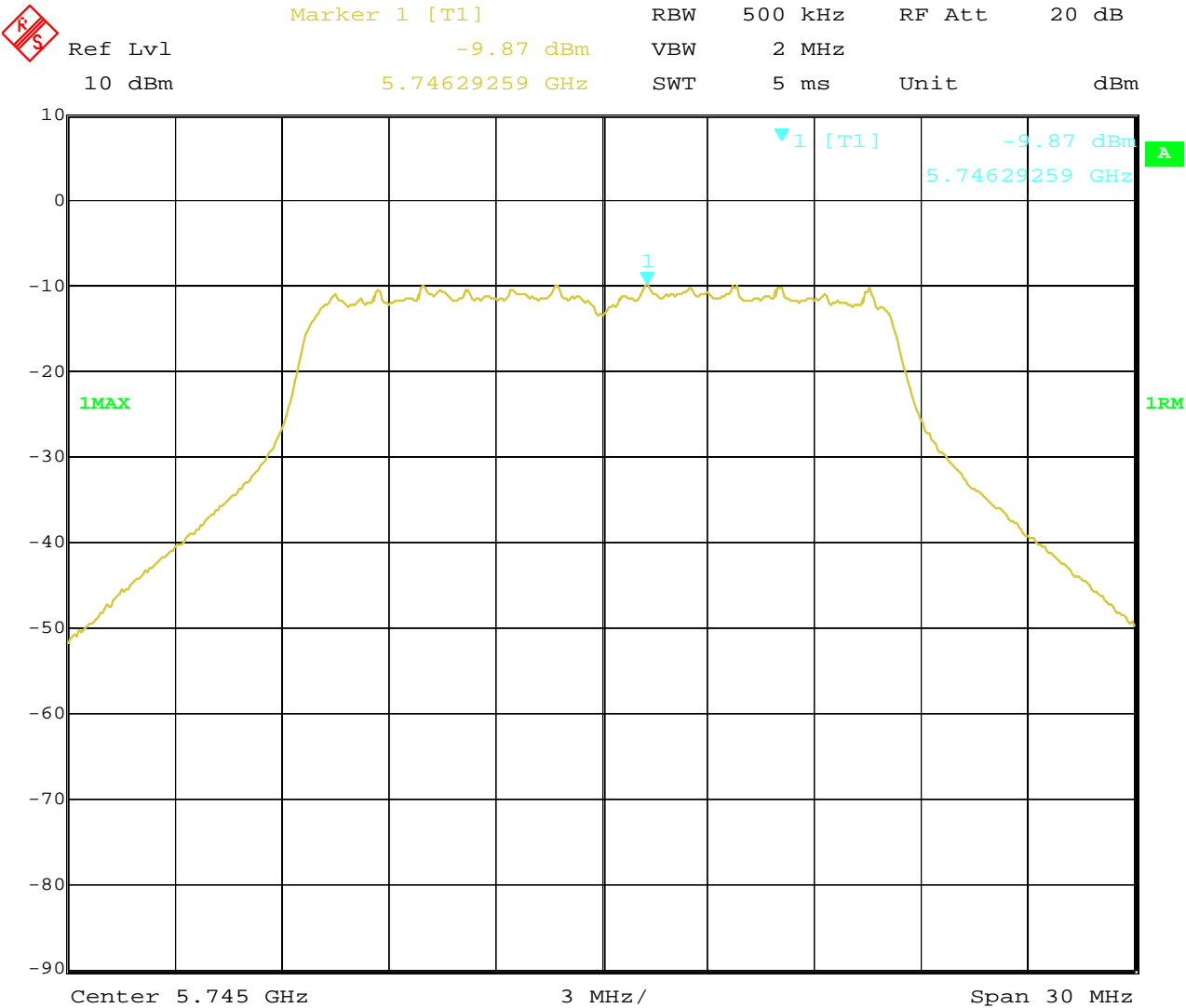


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4.802.11a at 6Mbps of CH149

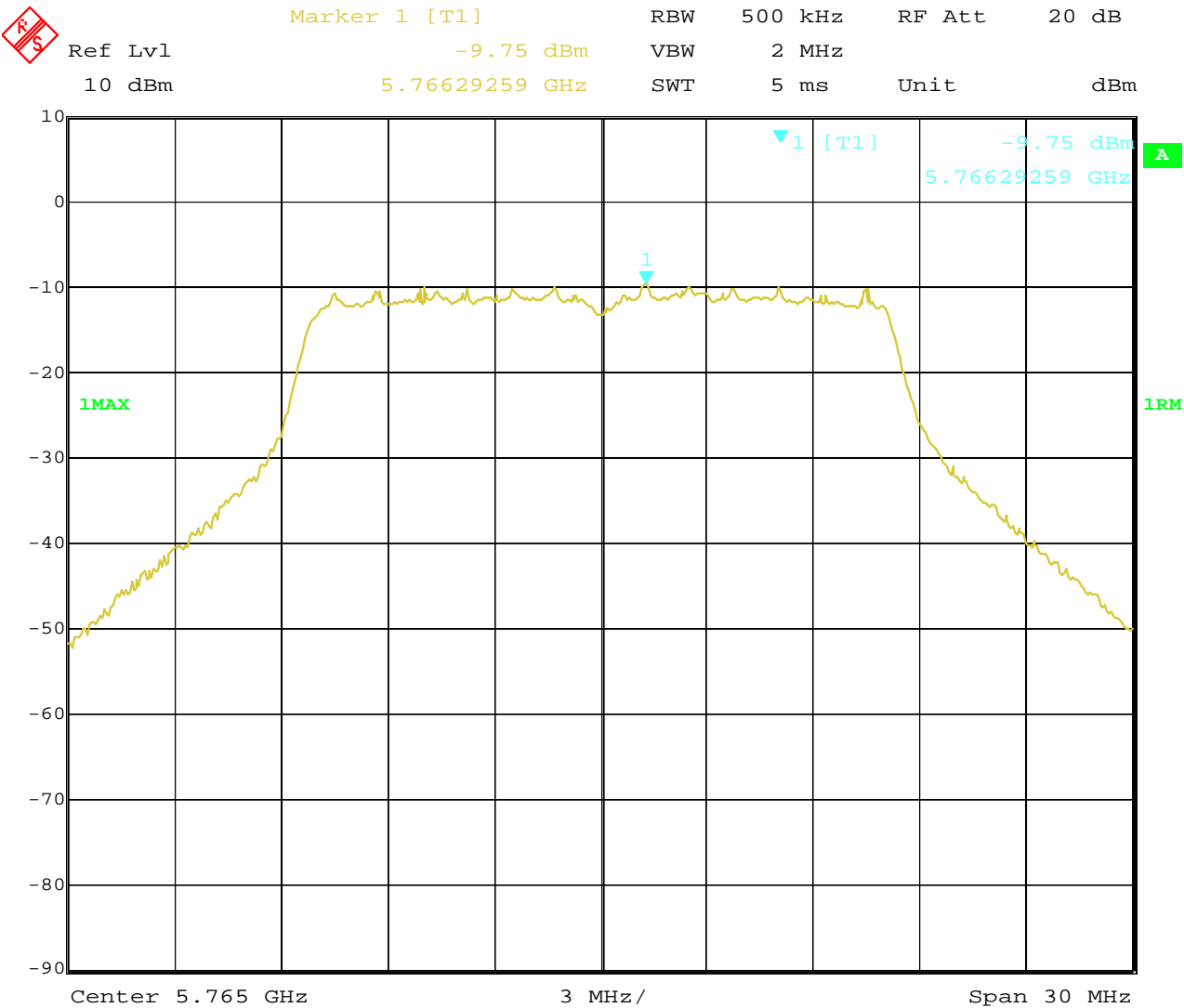


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5.802.11a at 6Mbps of CH153

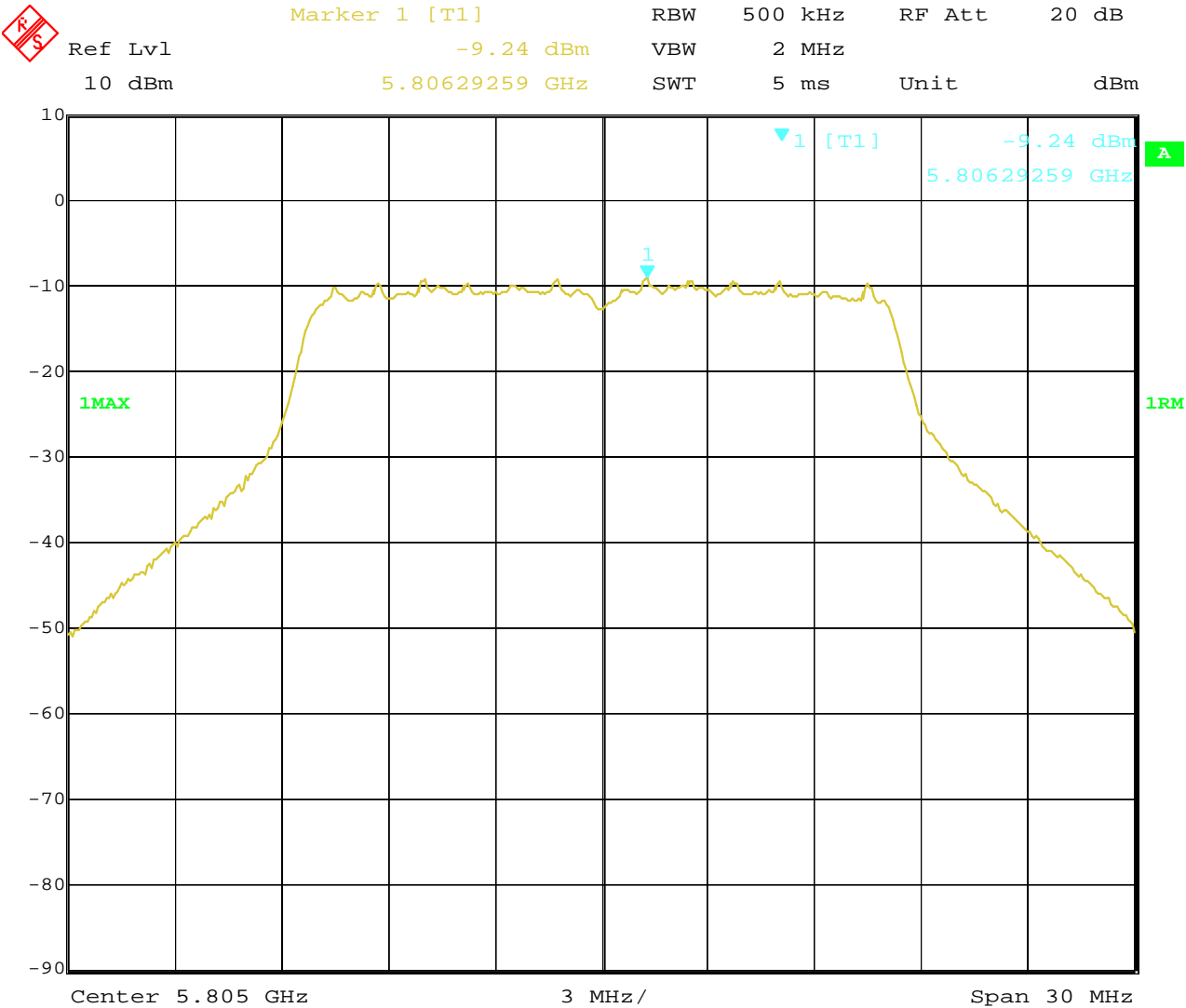


Date: 28.JUN.2022 10:13:23

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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.



6.802.11a at 6Mbps of CH161



Date: 28.JUN.2022 10:17:55

The report refers only to the sample tested and does not apply to the bulk.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT20 mcs0		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-8.74	11	Pass	
40	5200	-8.96	11	Pass	
48	5240	-8.83	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-10.37	30	Pass	
153	5765	-10.01	30	Pass	
161	5805	-9.19	30	Pass	

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

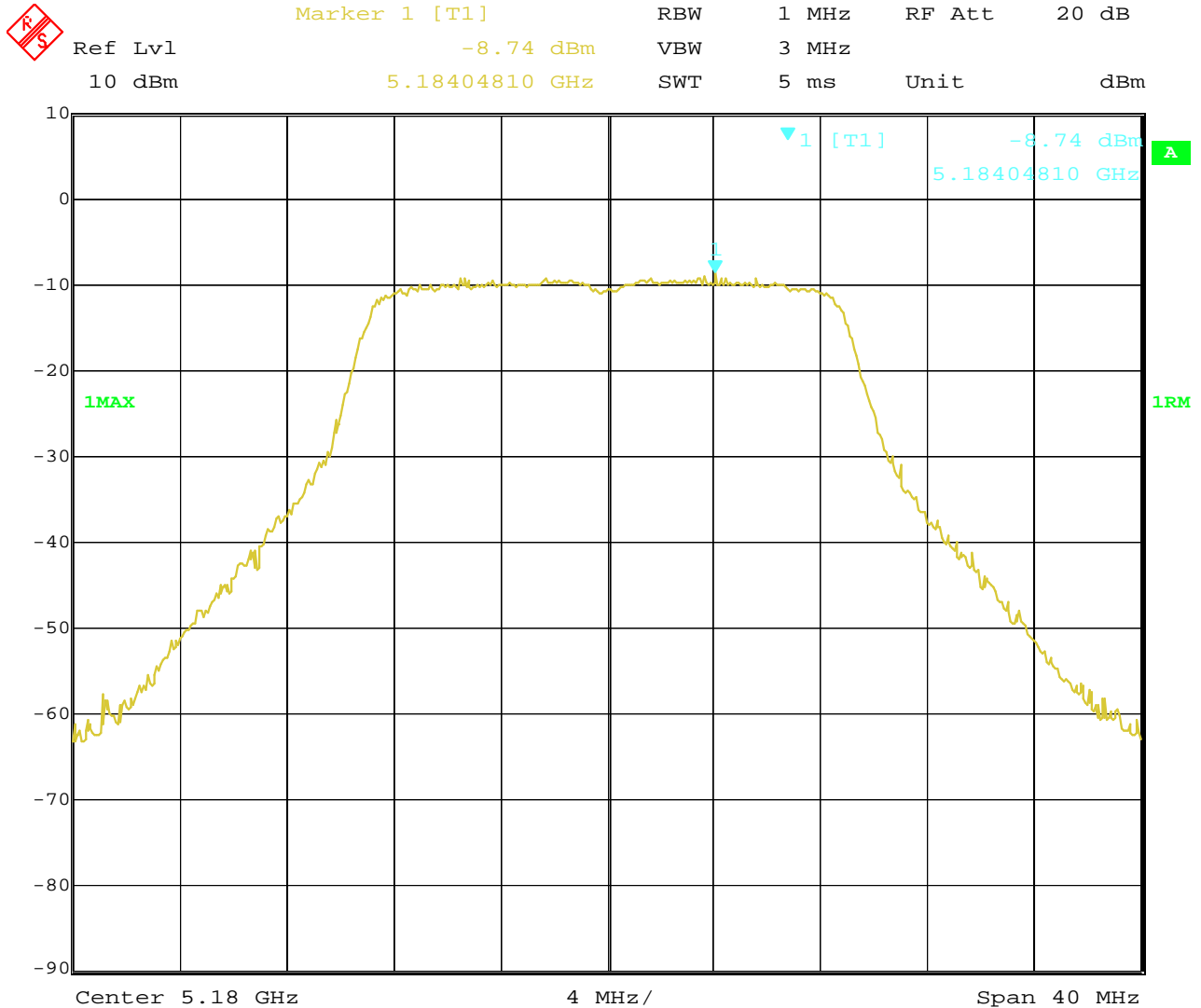
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send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

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### Test Plots

1.802.11n at mcs0 of CH36



Date: 25.JUN.2022 16:31:24

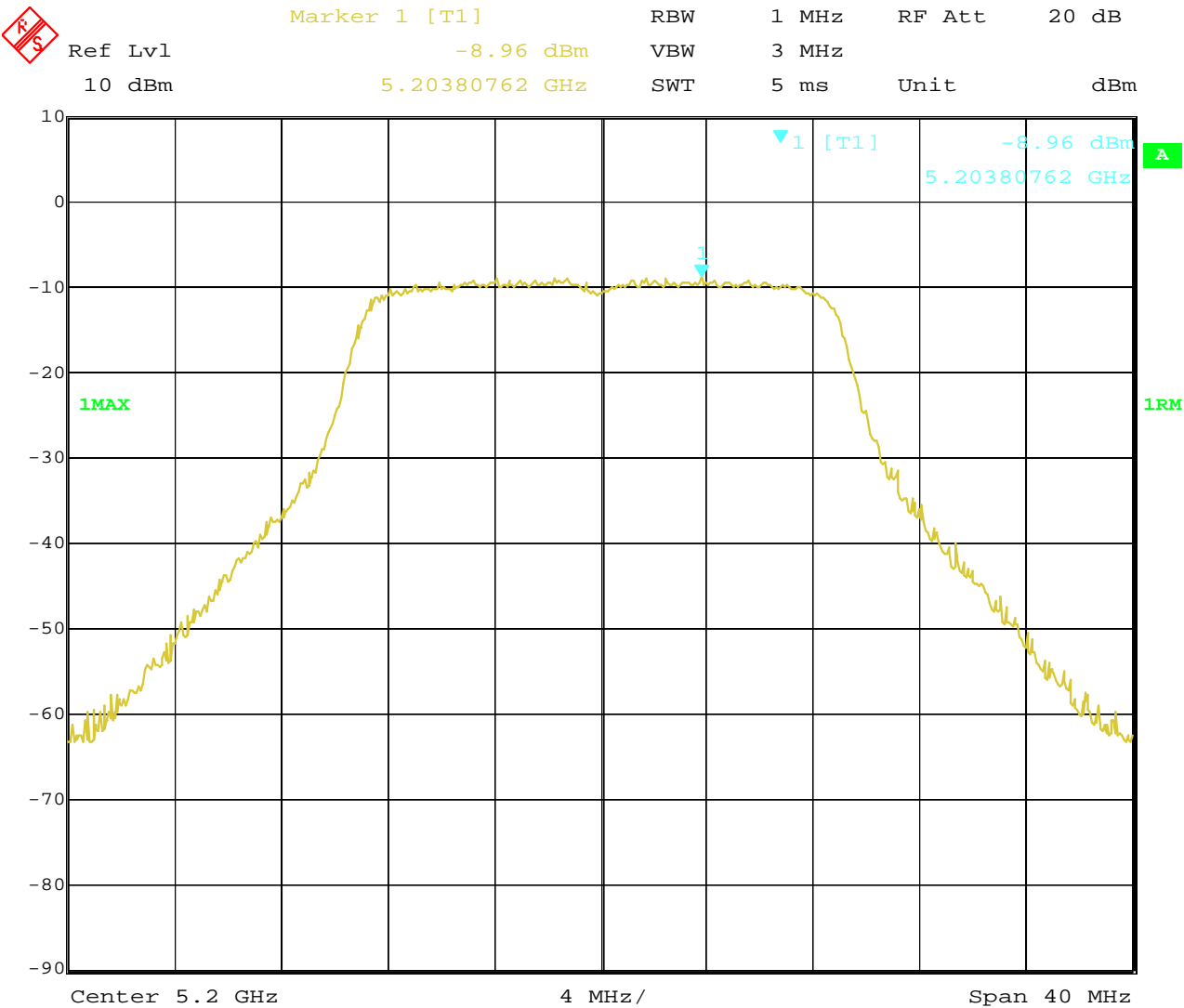
The report refers only to the sample tested and does not apply to the bulk.

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2.802.11n at mcs0 of CH40

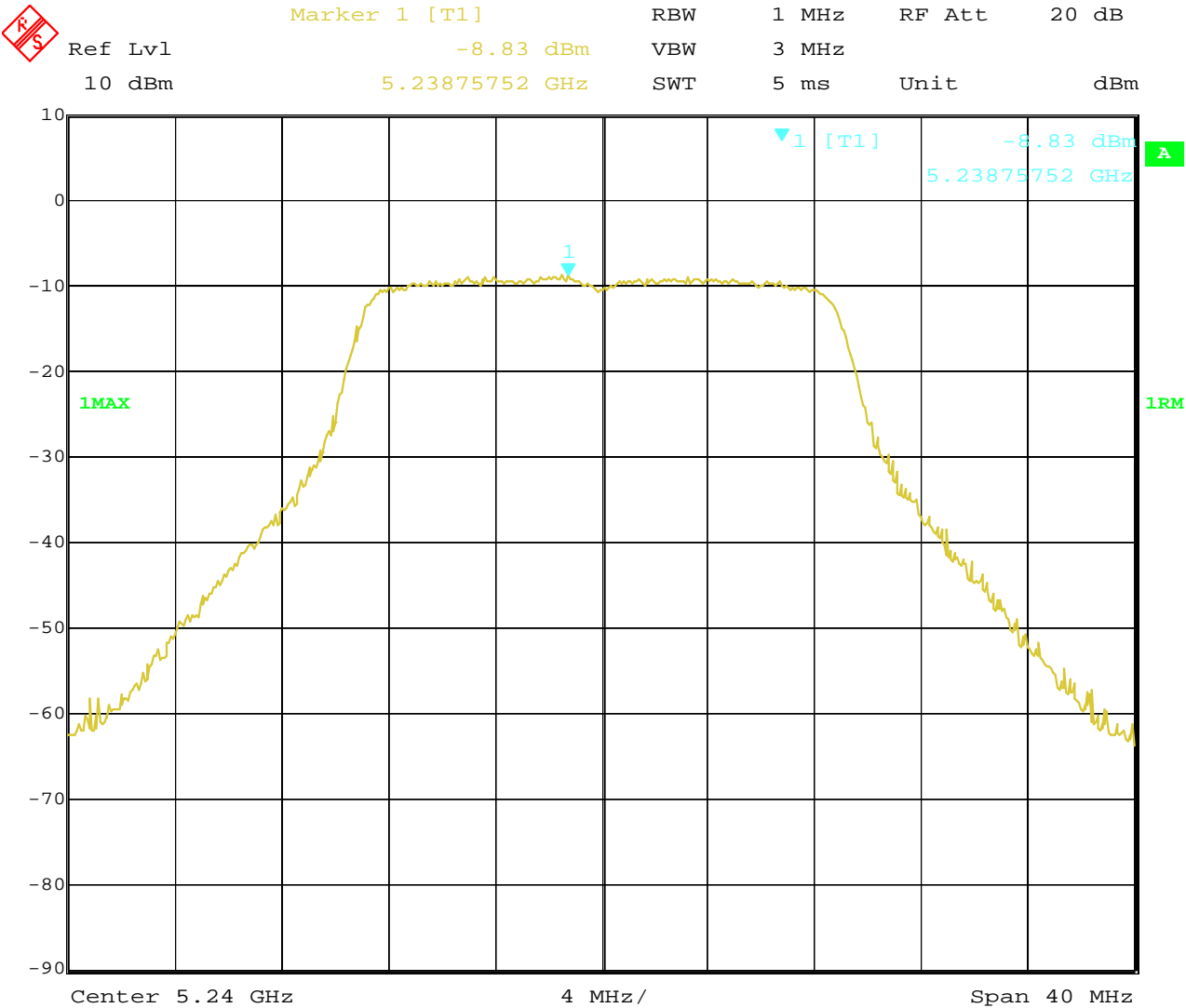


Date: 25.JUN.2022 16:30:58

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



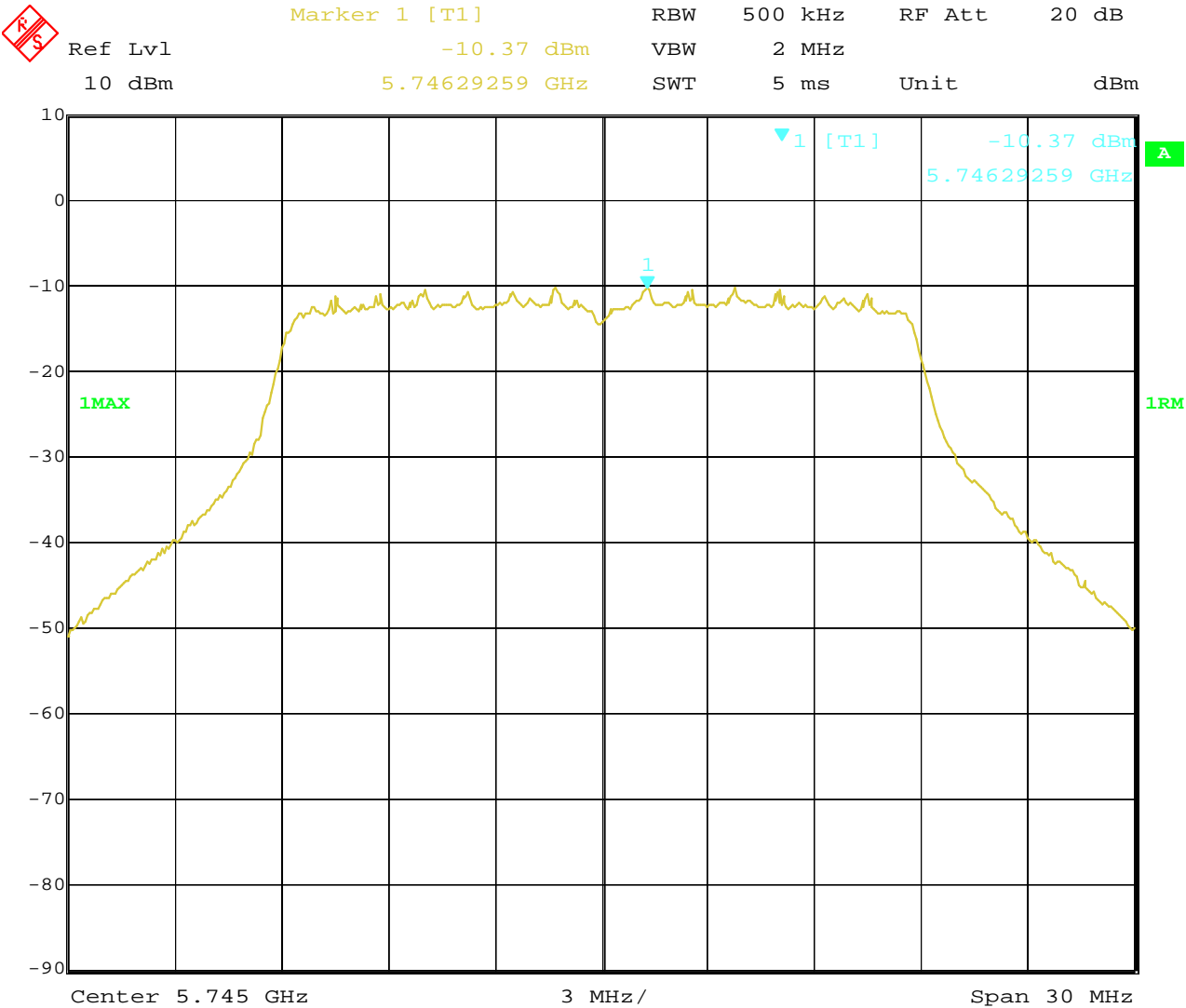
Date: 25.JUN.2022 16:30:13

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

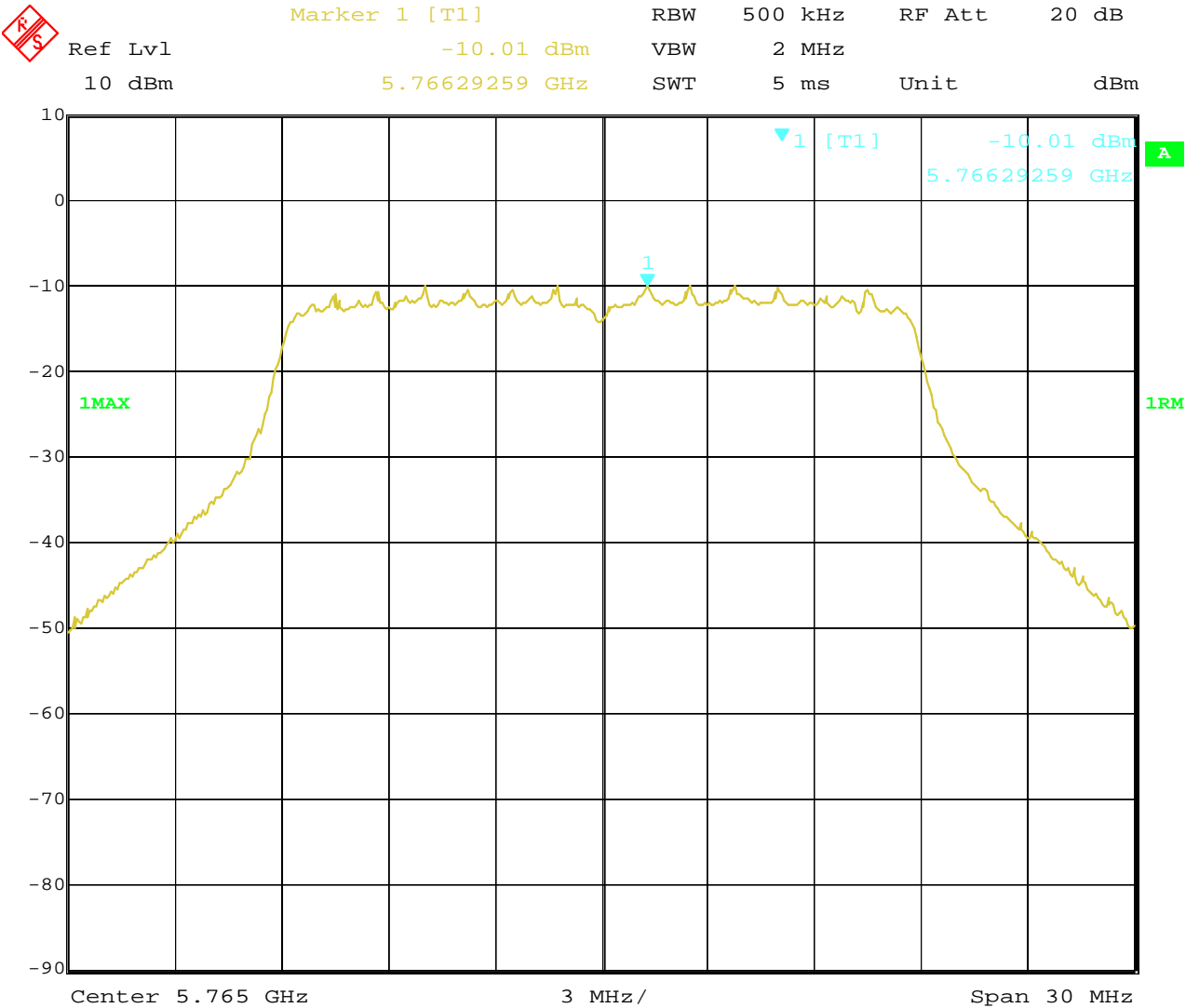


Date: 28.JUN.2022 10:30:41

The report refers only to the sample tested and does not apply to the bulk.  
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5.802.11n at mcs0 of CH153

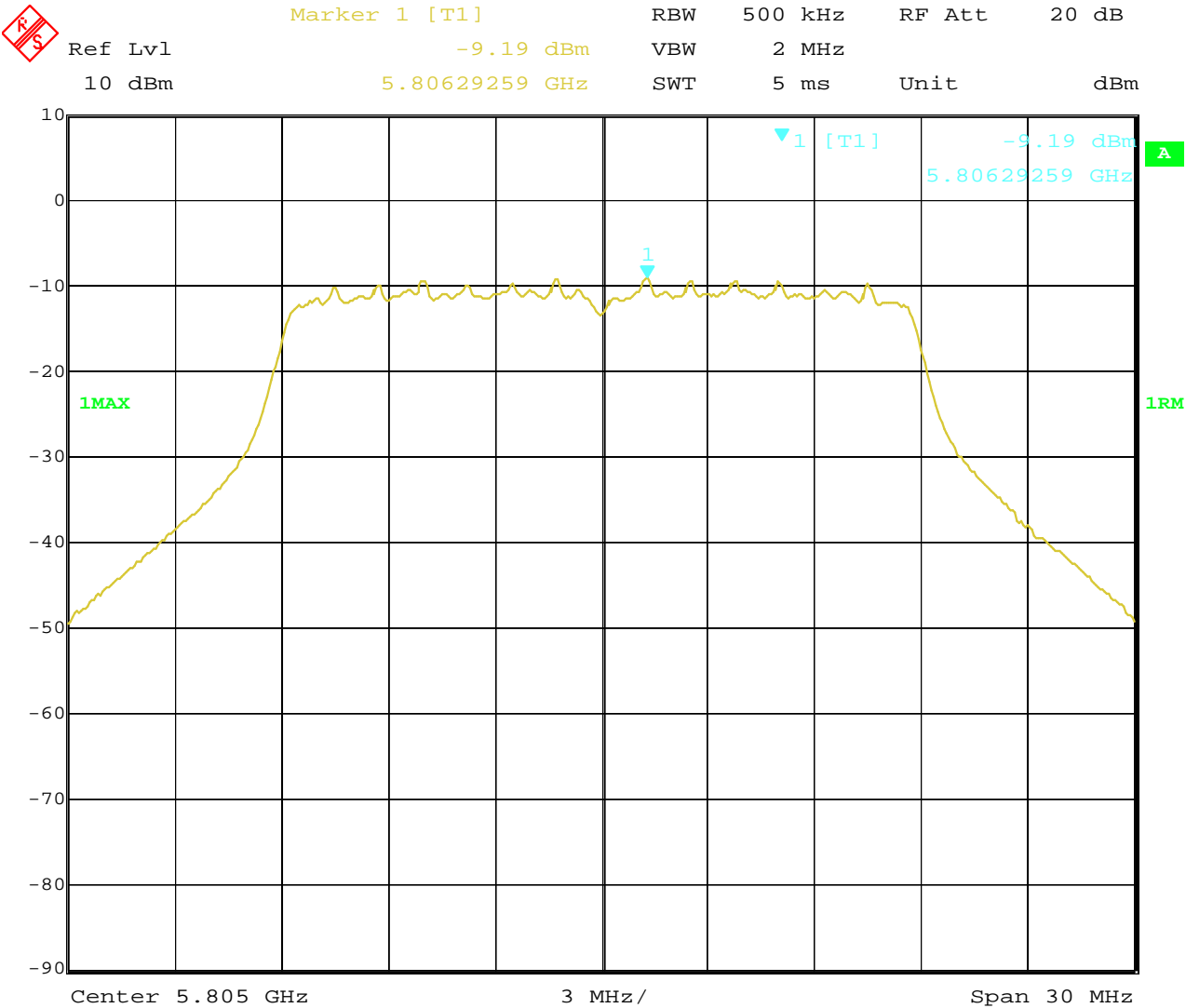


Date: 28.JUN.2022 10:28:00

The report refers only to the sample tested and does not apply to the bulk.  
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6.802.11n at mcs0 of CH161



Date: 28.JUN.2022 10:26:12

The report refers only to the sample tested and does not apply to the bulk.  
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertizing. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11n HT40 mcs0		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-11.49	11	Pass	
46	5230	-11.36	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-13.13	30	Pass	
159	5795	-12.68	30	Pass	

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

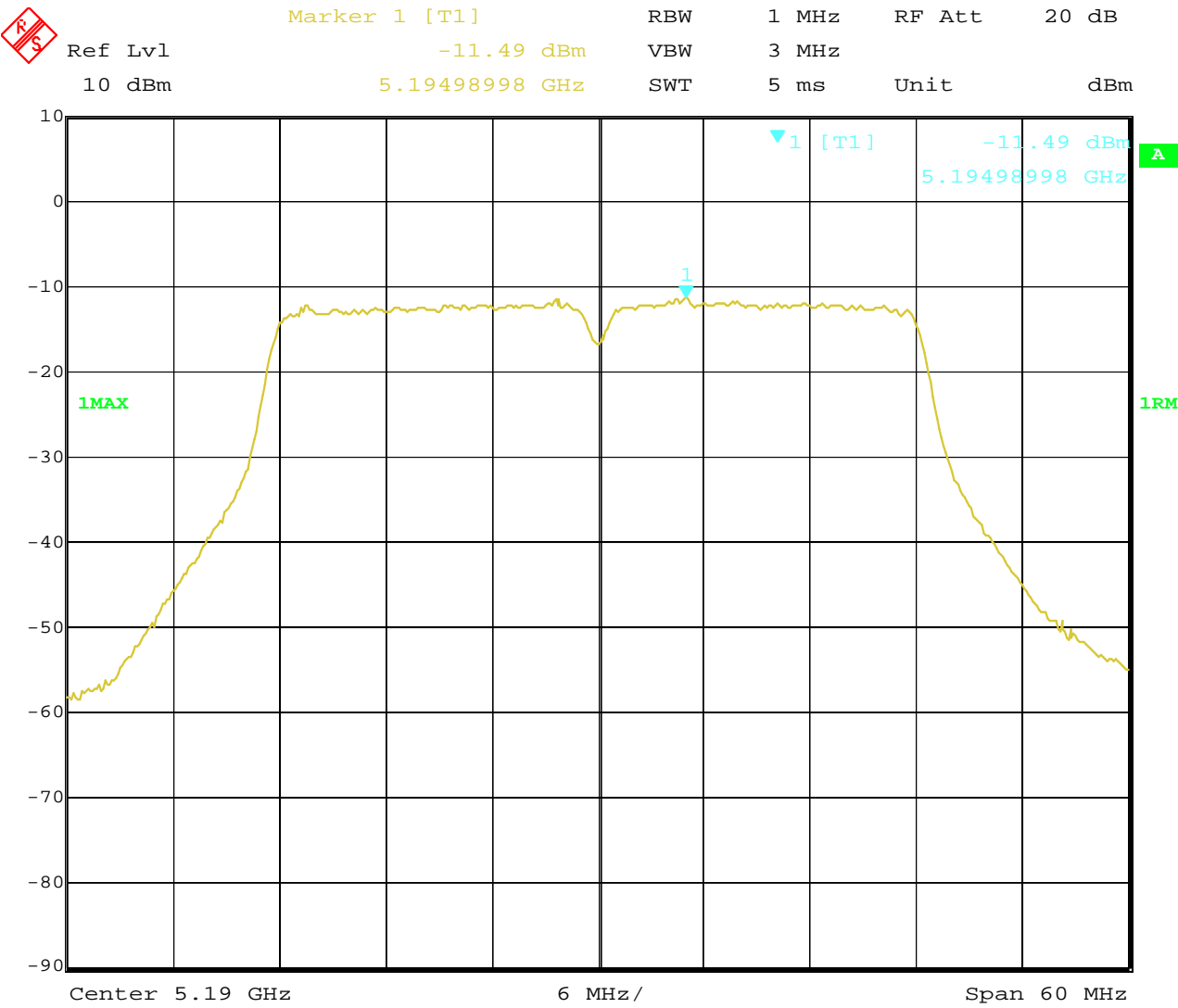
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Test Plots

1.802.11n HT40 at mcs0 of CH38

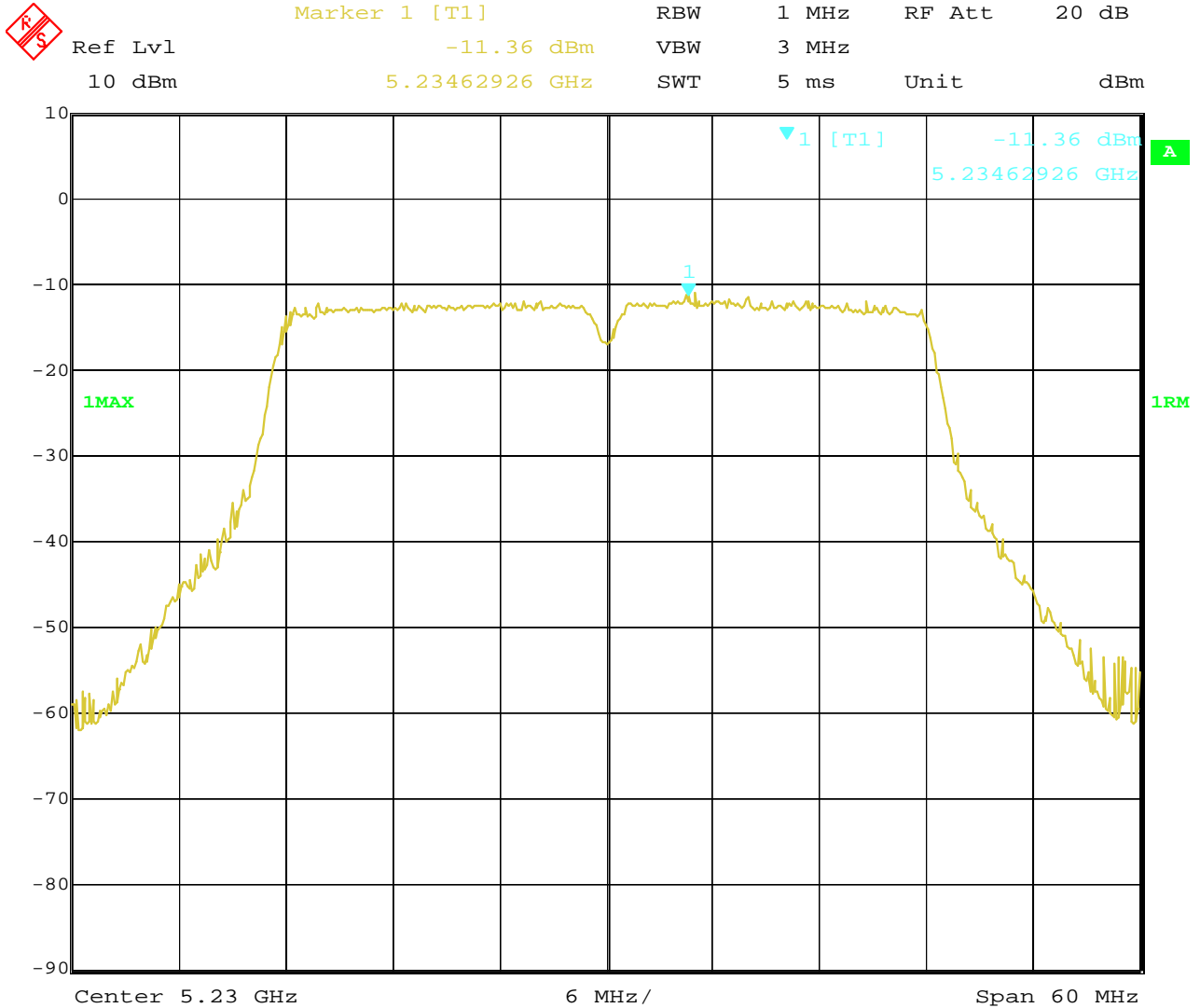


Date: 25.JUN.2022 16:26:08

The report refers only to the sample tested and does not apply to the bulk.  
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2.802.11n HT40 at mcs0 of CH46

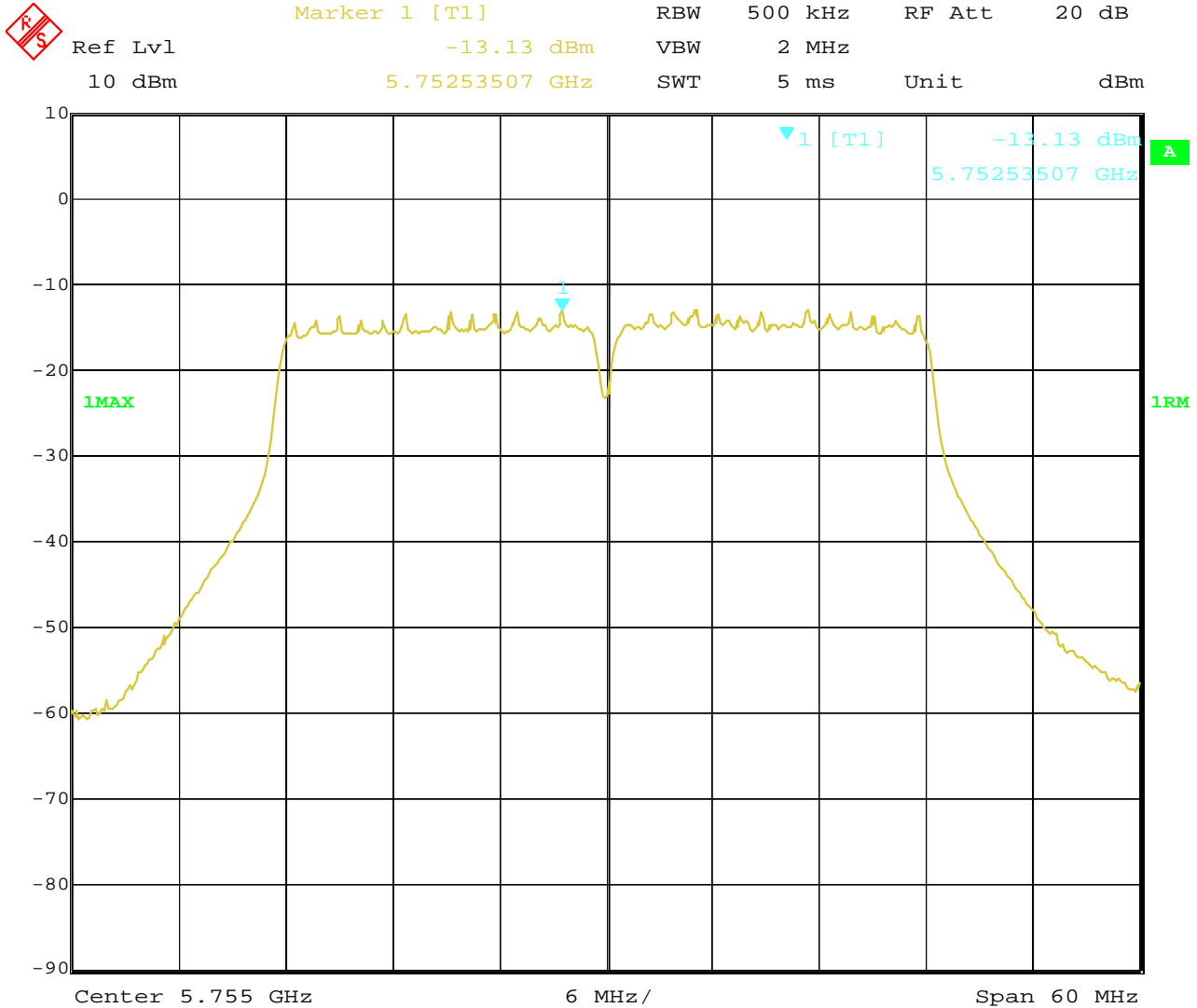


Date: 25.JUN.2022 16:26:47

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3.802.11n HT40 at mcs0 of CH151

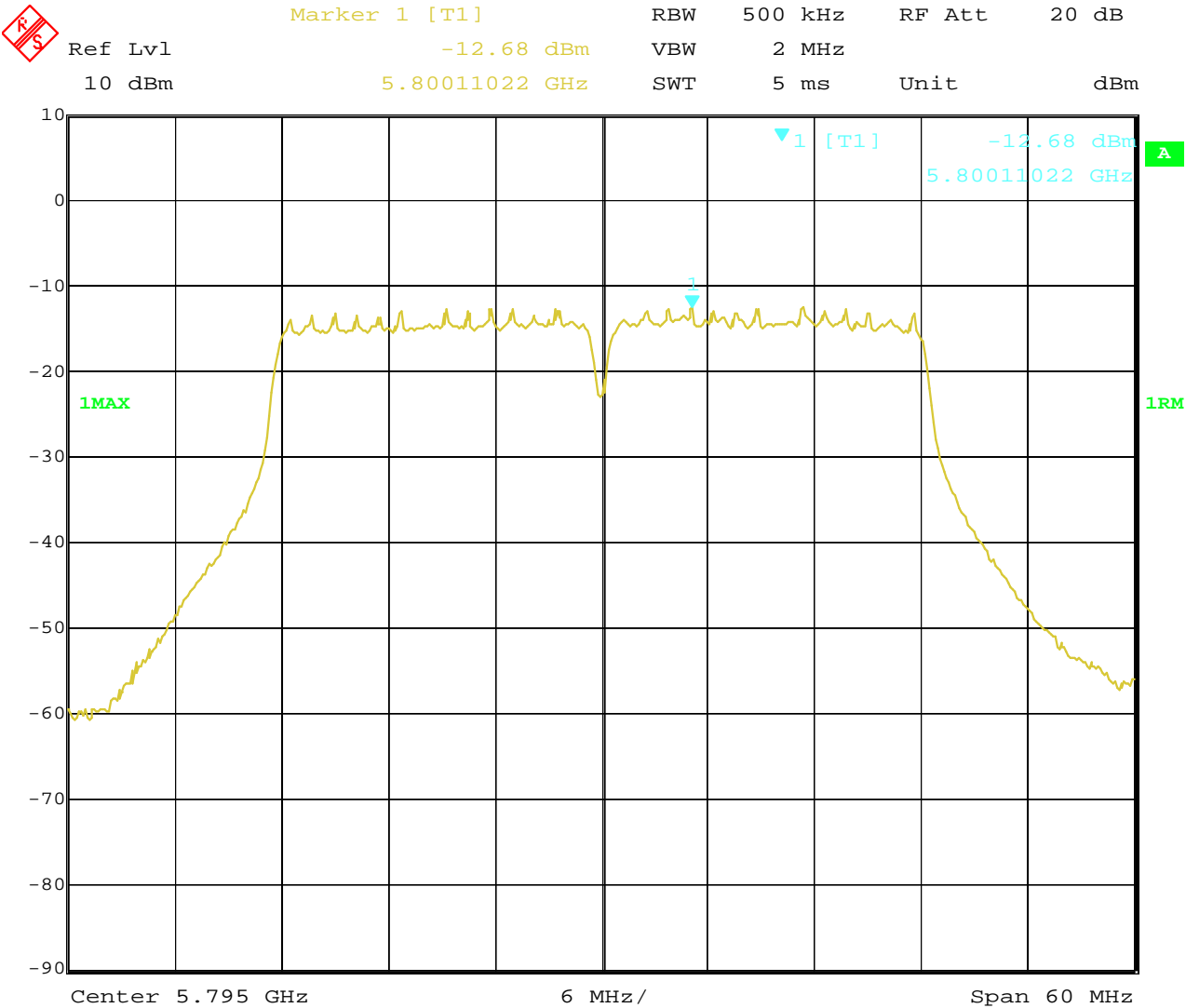


Date: 28.JUN.2022 10:52:56

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4.802.11n HT40 at mcs0 of CH159



Date: 28.JUN.2022 10:56:24

The report refers only to the sample tested and does not apply to the bulk.  
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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT20		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-9.10	11	Pass	
40	5200	-9.01	11	Pass	
48	5240	-8.39	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-10.28	30	Pass	
153	5765	-10.17	30	Pass	
161	5805	-9.34	30	Pass	

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

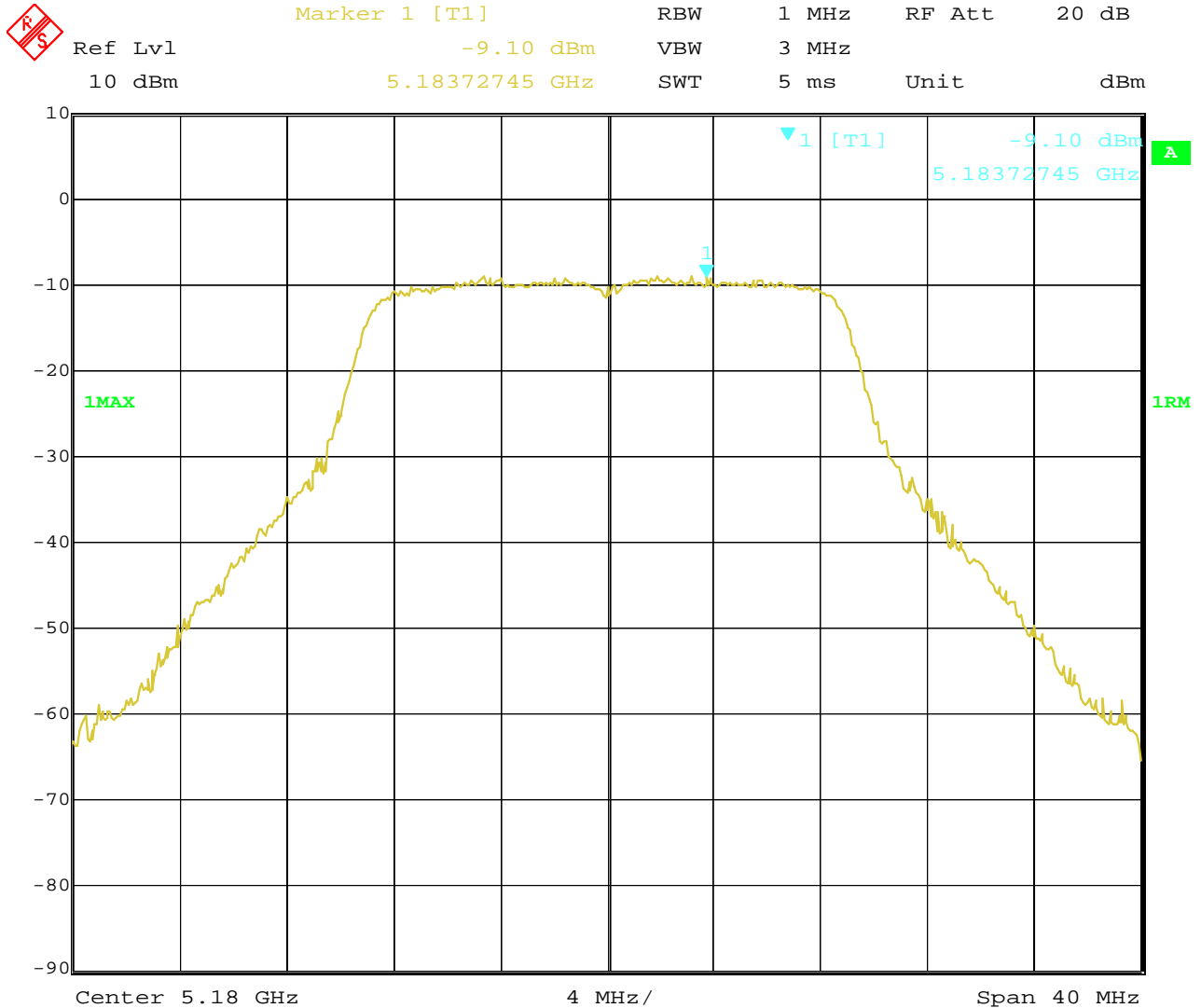
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### Test Plots

1.802.11ac at mcs0 of CH36



Date: 25.JUN.2022 16:28:54

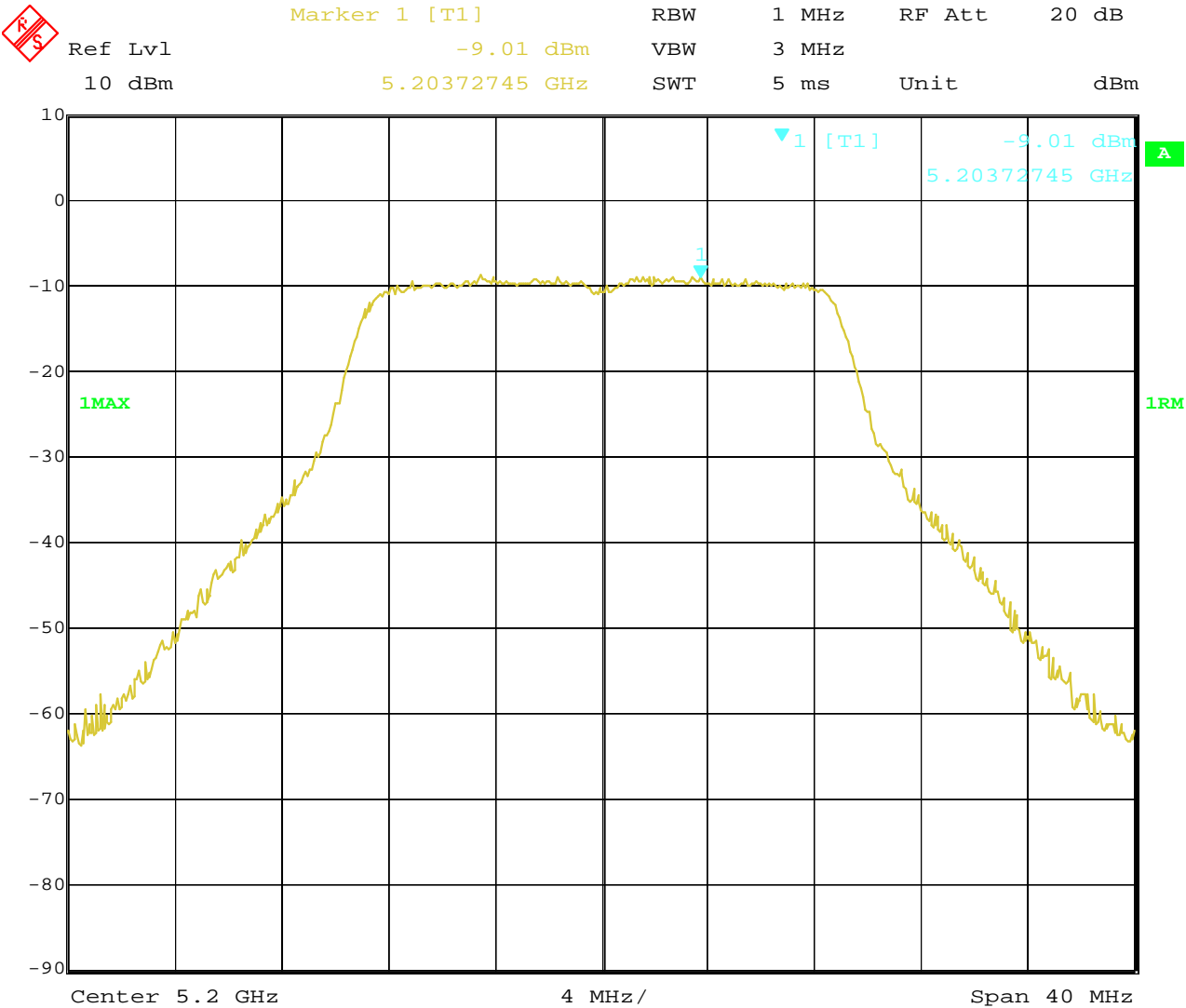
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2.802.11ac at mcs0 of CH40

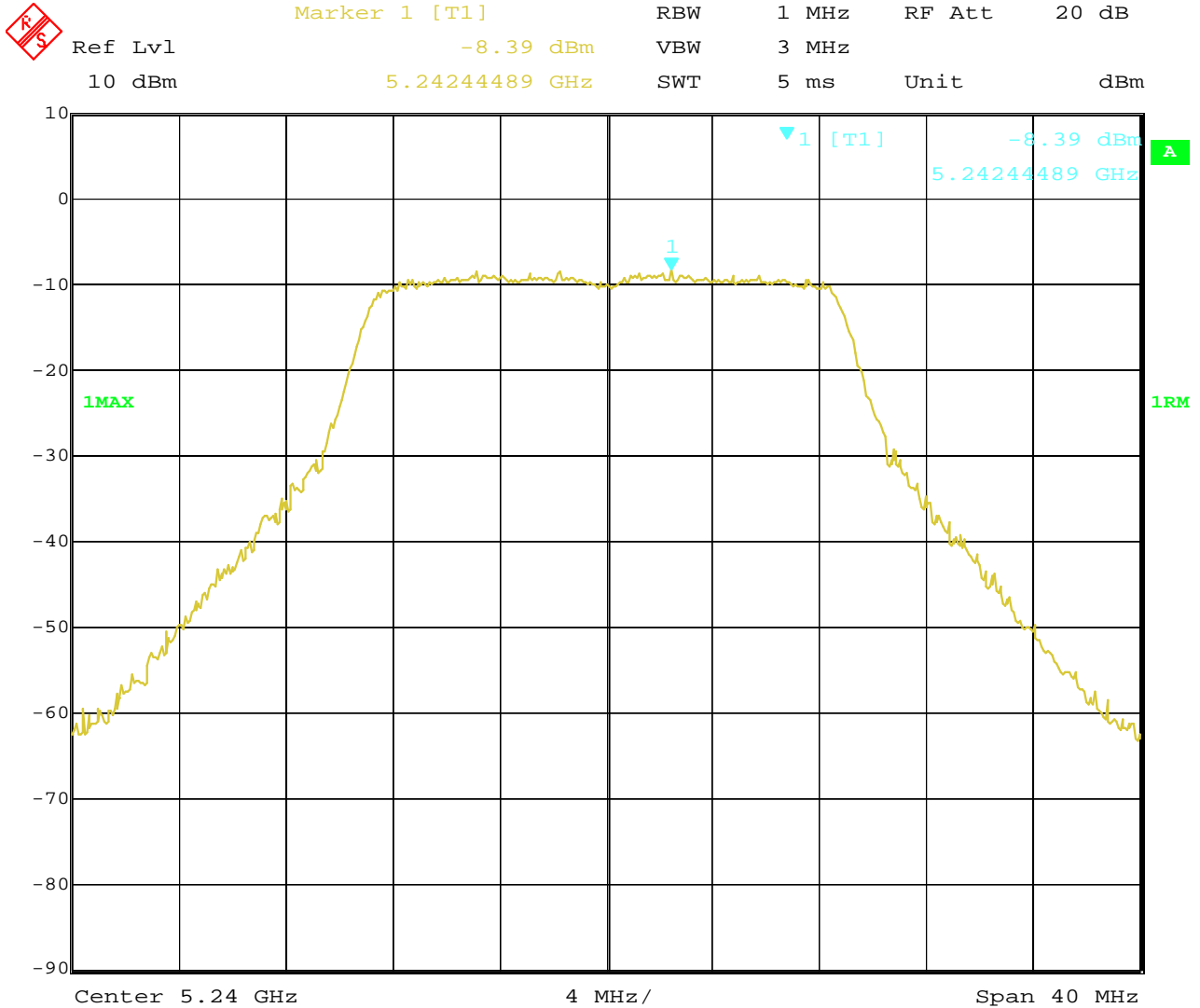


Date: 25.JUN.2022 16:29:18

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3.802.11ac at mcs0 of CH48



Date: 25.JUN.2022 16:29:47

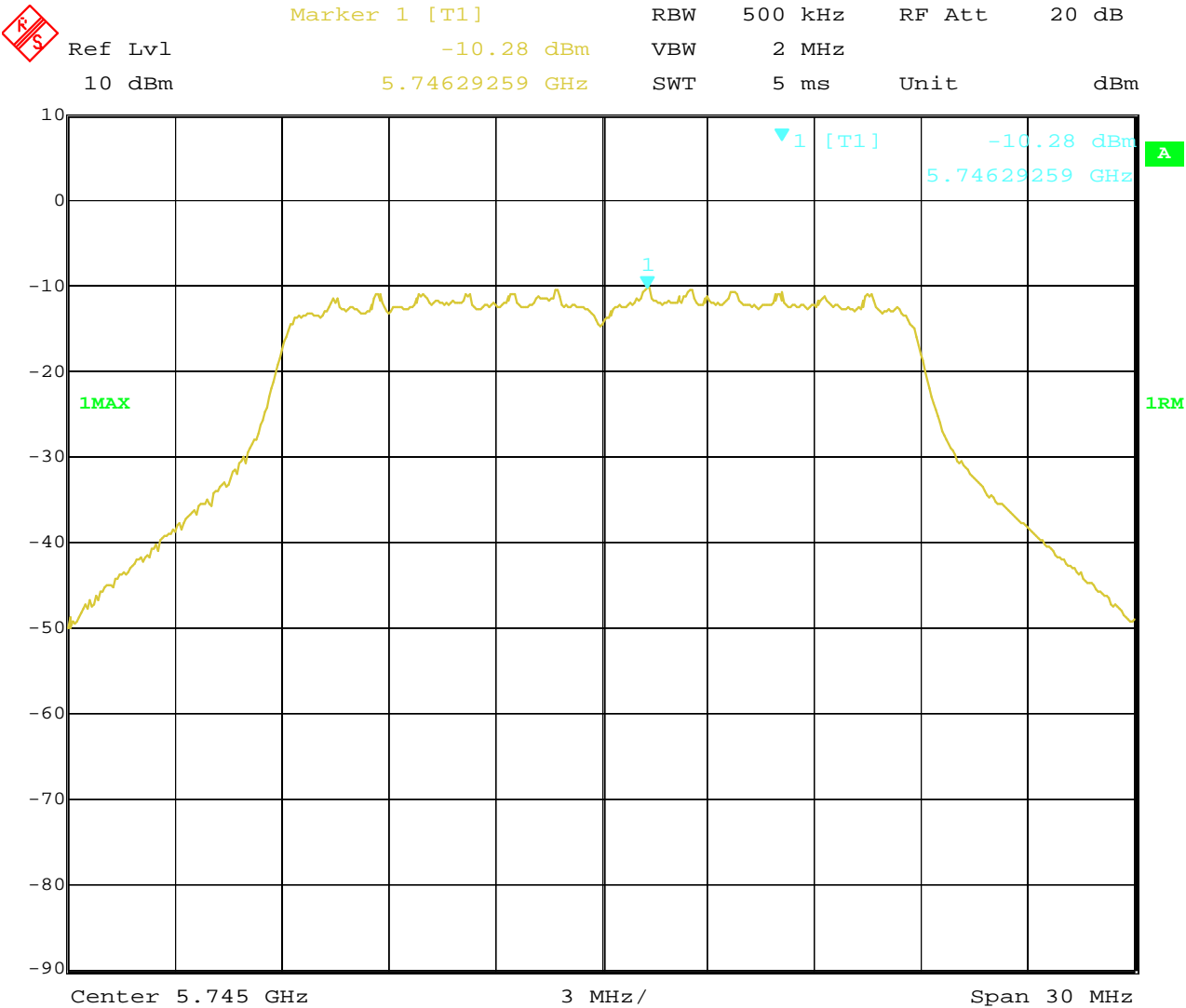
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4.802.11ac at mcs0 of CH149

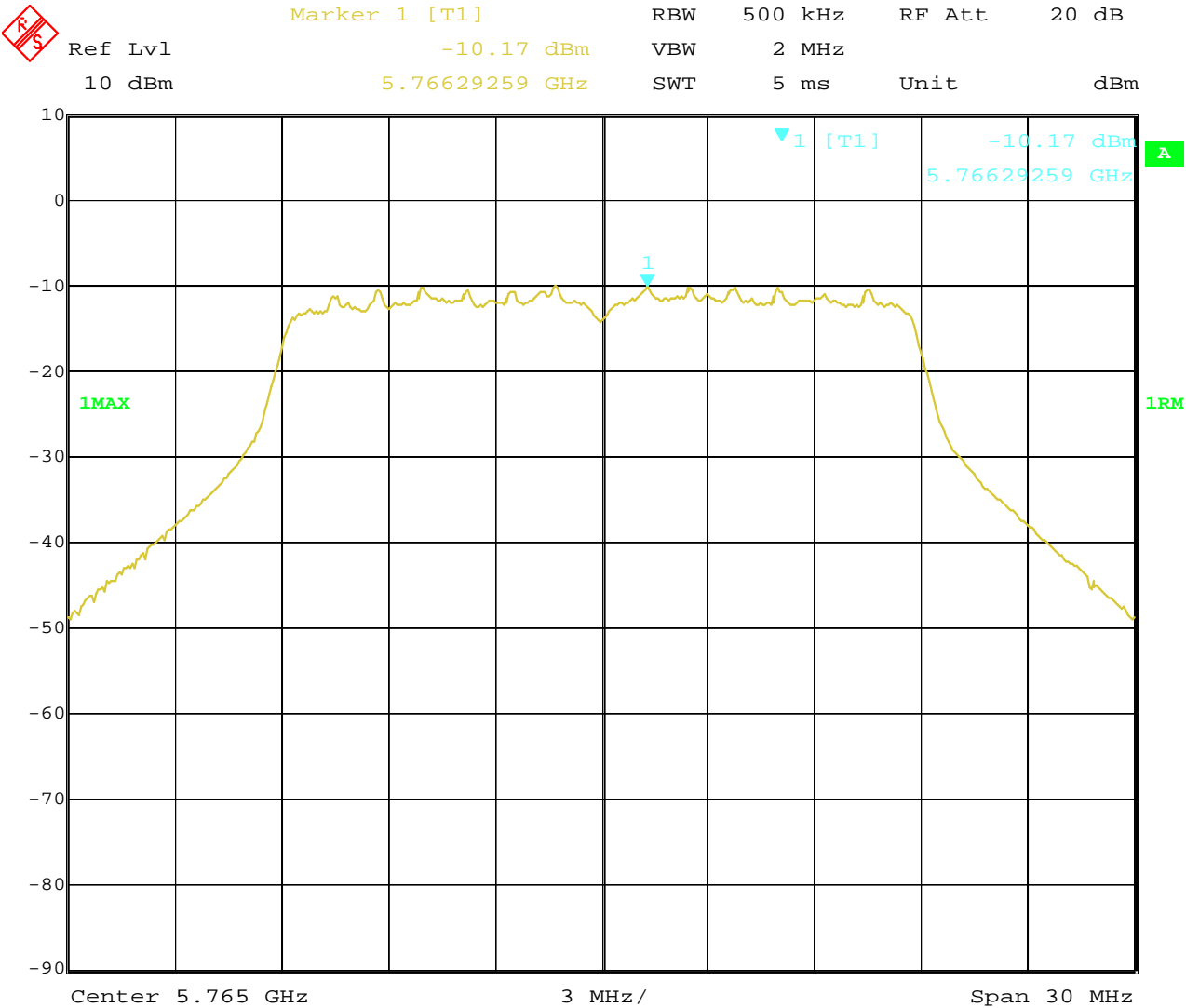


Date: 28.JUN.2022 10:33:14

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5.802.11ac at mcs0 of CH153

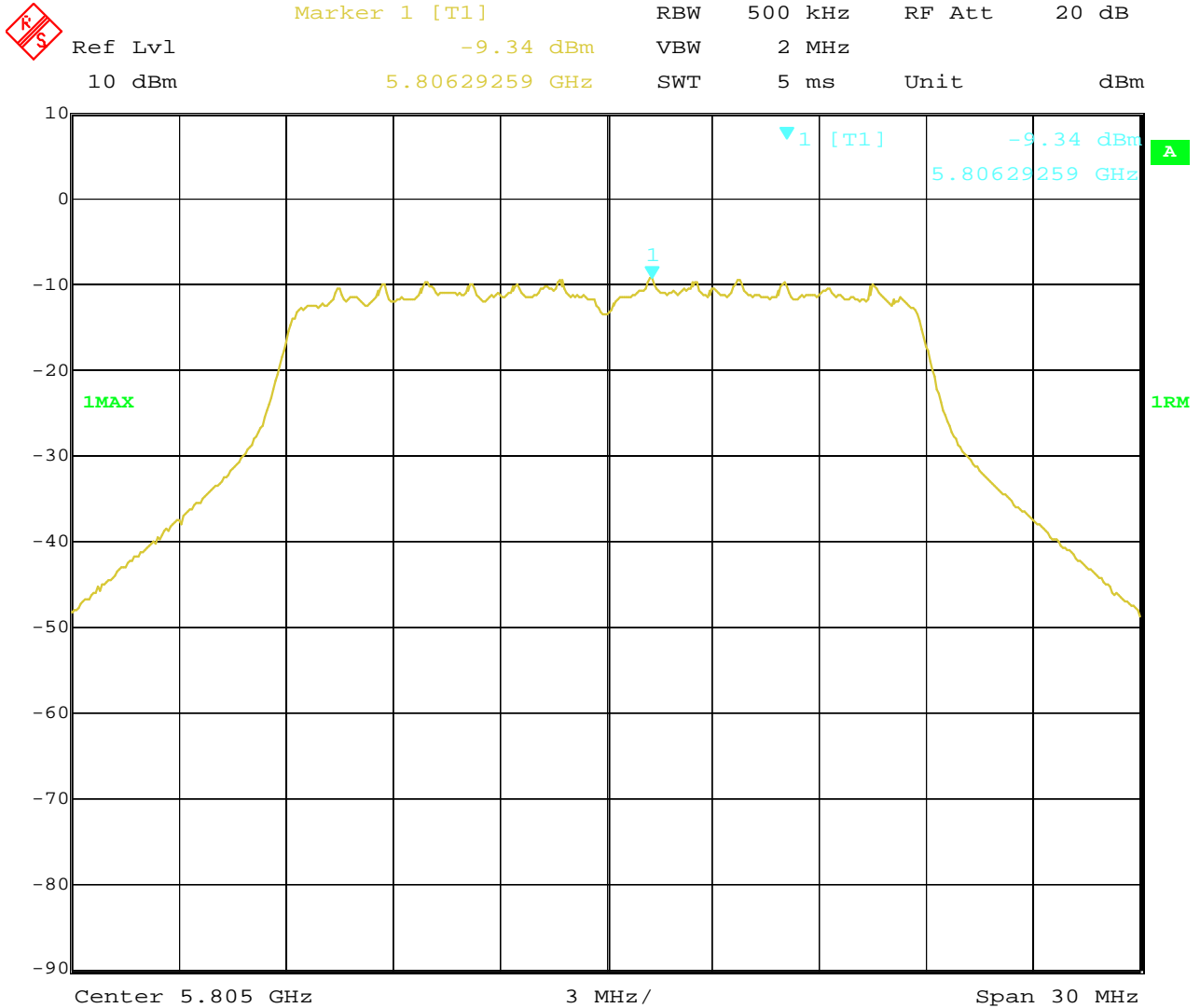


Date: 28.JUN.2022 10:36:53

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6.802.11ac at mcs0 of CH161



Date: 28.JUN.2022 10:42:36

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

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT40		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-11.74	11	Pass	
46	5230	-11.63	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-13.21	30	Pass	
159	5795	-12.54	30	Pass	

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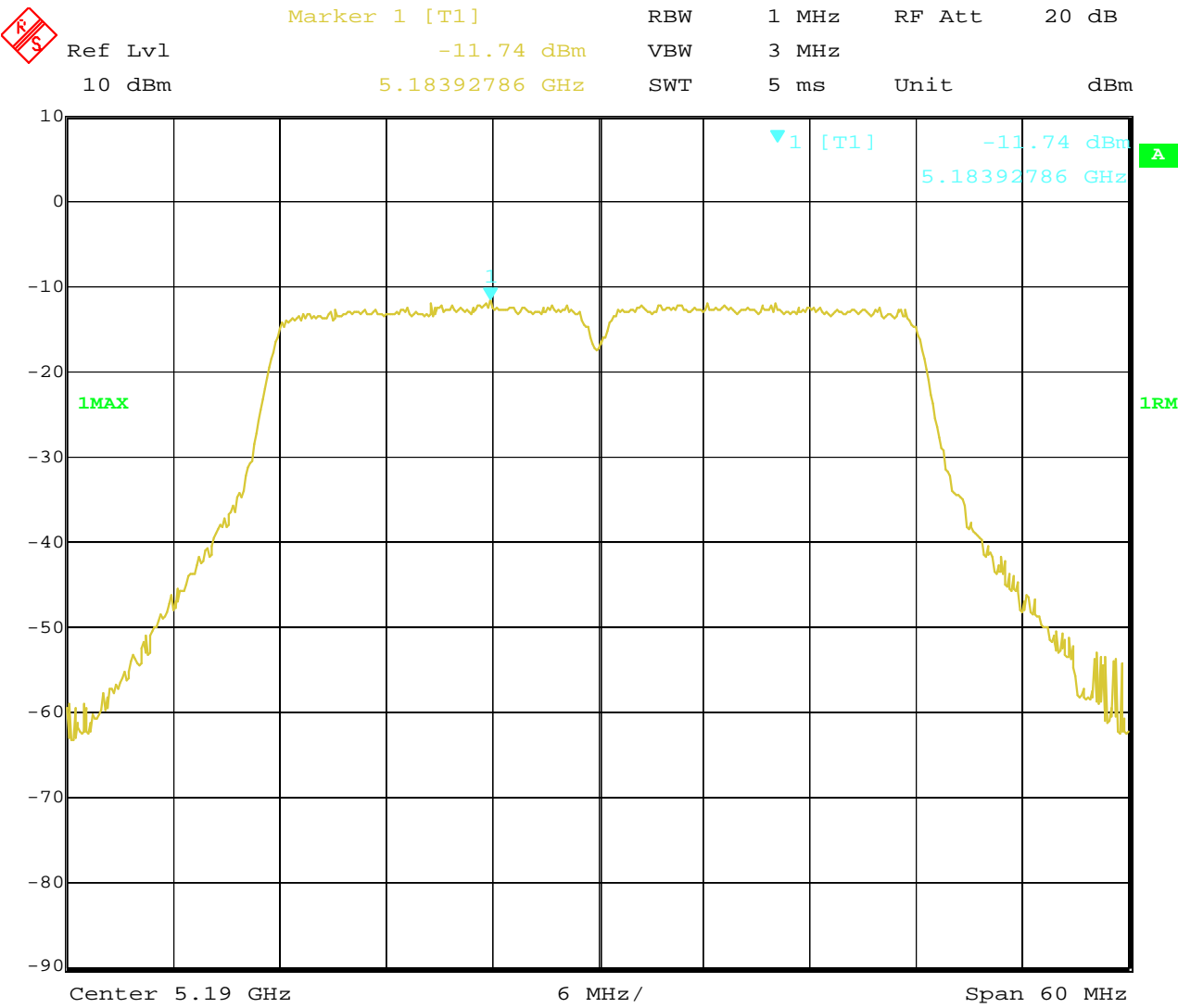
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Test Plots

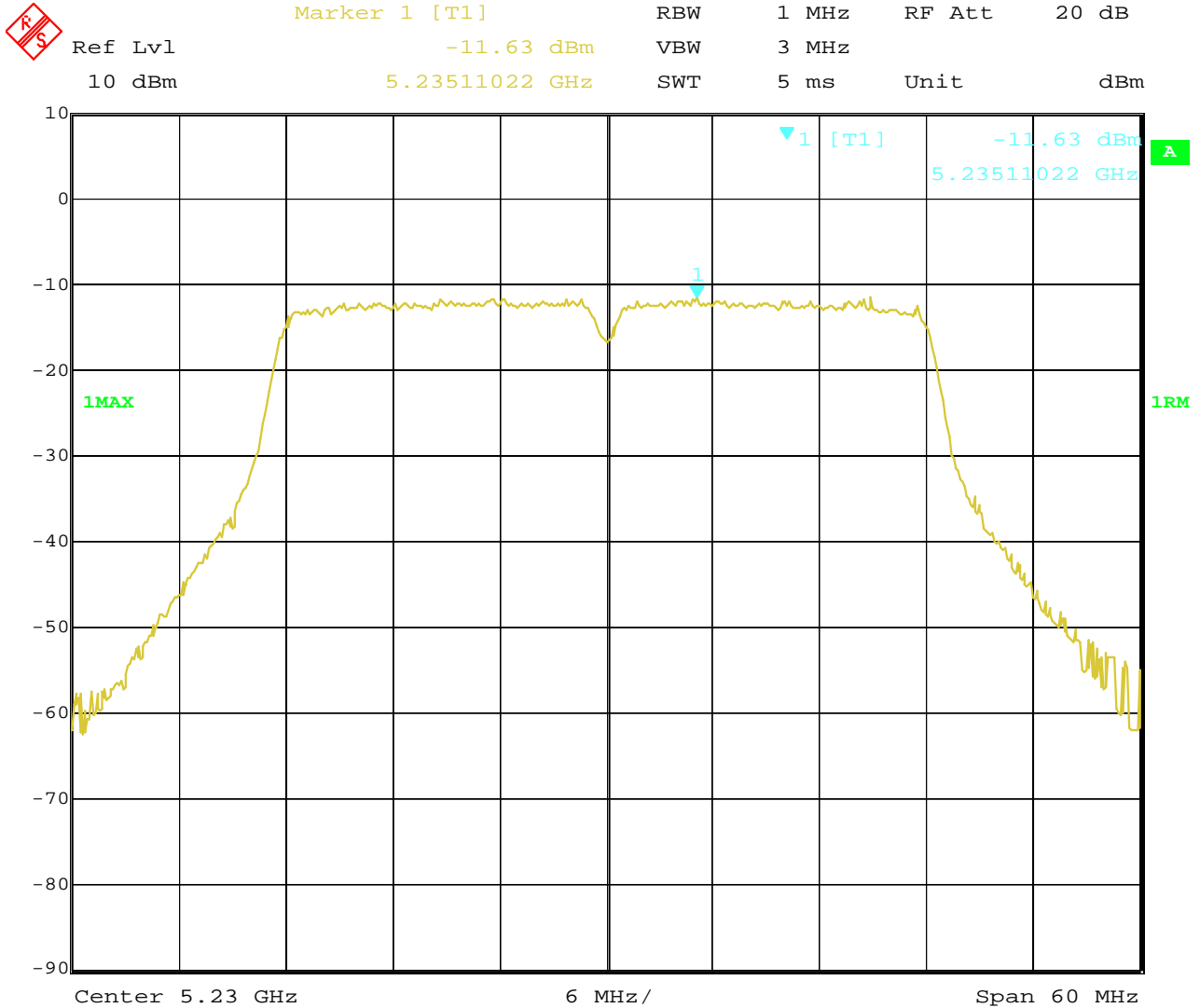
1.802.11ac at mcs0 of CH38



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2.802.11ac at mcs0 of CH46



Date: 25.JUN.2022 16:27:24

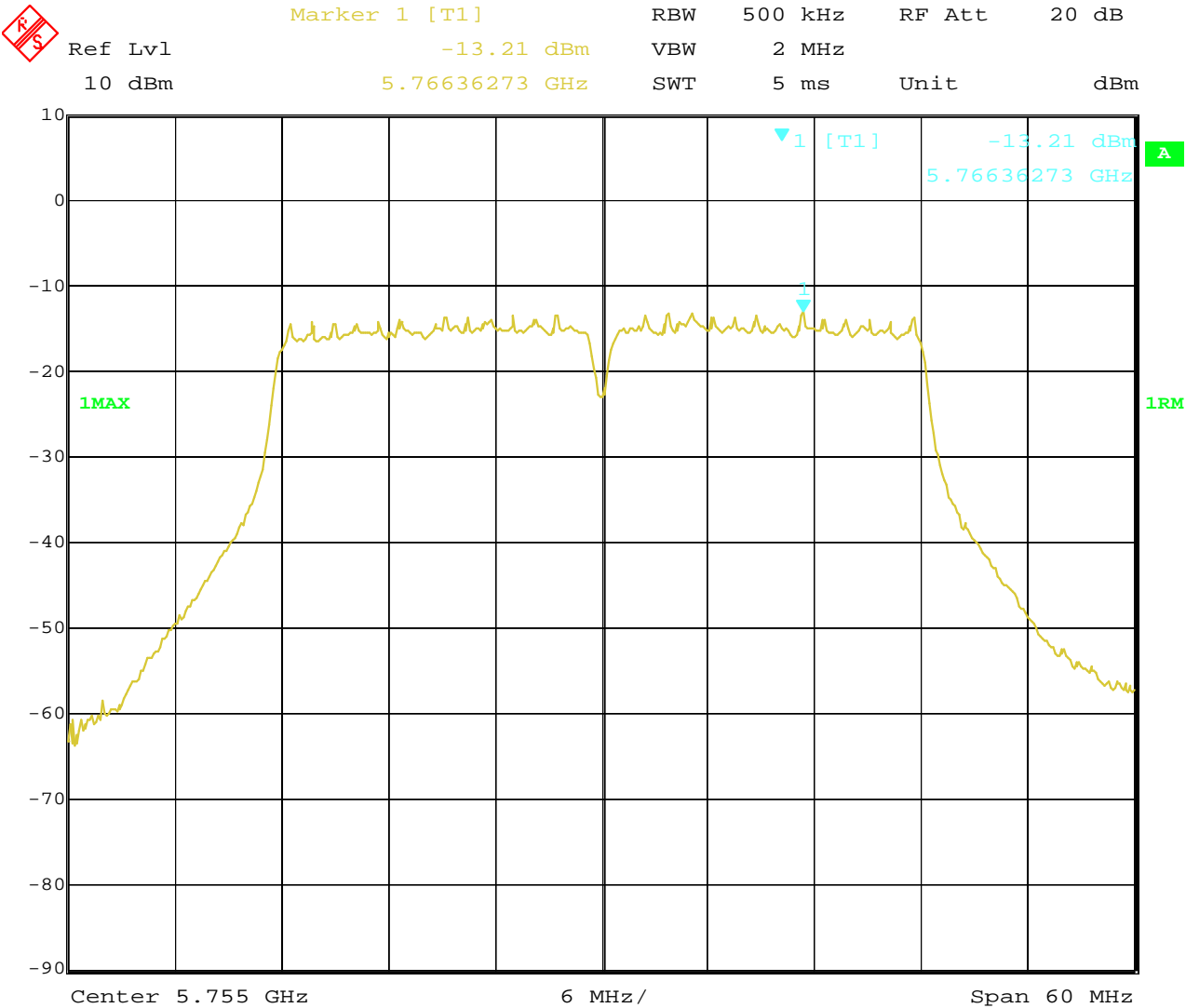
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3.802.11ac at mcs0 of CH151

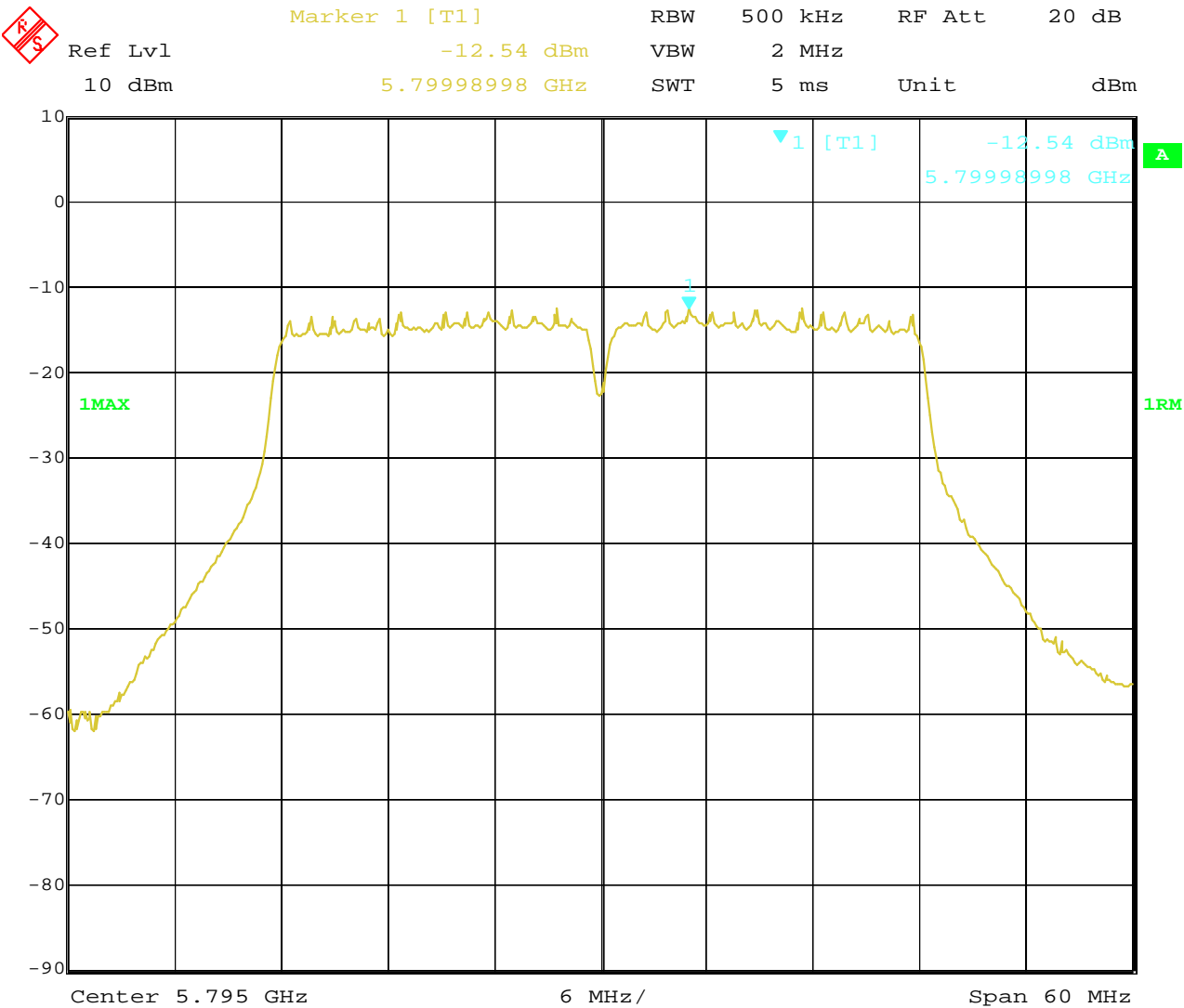


Date: 28.JUN.2022 11:01:36

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4.802.11ac at mcs0 of CH159



Date: 28.JUN.2022 10:59:15

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EUT		TQSky Tbox		Model	TBOX
Mode		802.11ac VHT80		Test Voltage	DC3.85V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)		Limit (dBm/MHz)	Pass/ Fail
42	5210	-14.98		11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)		Limit (dBm/500kHz)	Pass/ Fail
155	5775	-15.96		30	Pass

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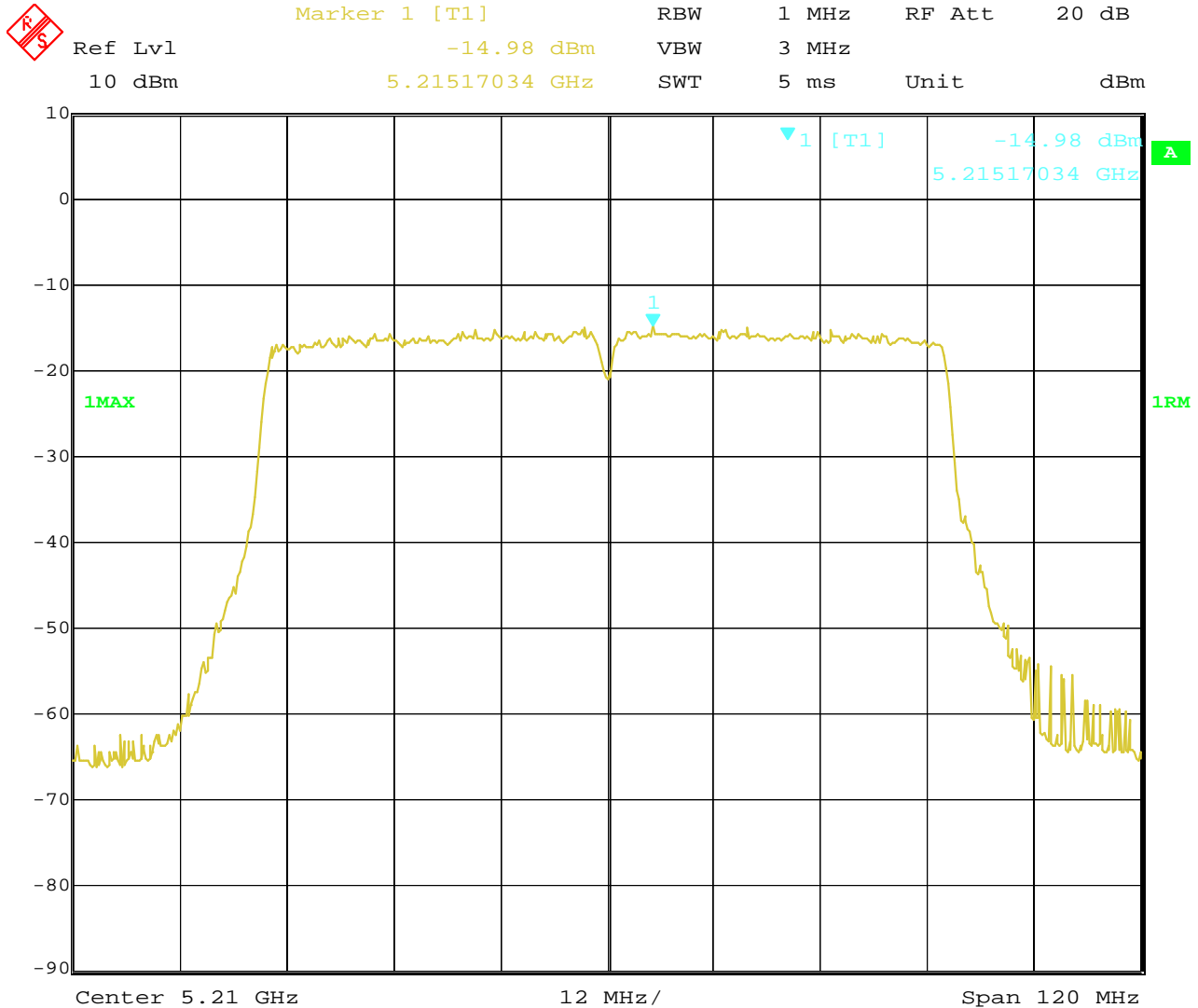
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### Test Plots

1.802.11ac at mcs0Mbps of CH42



Date: 25.JUN.2022 16:28:24

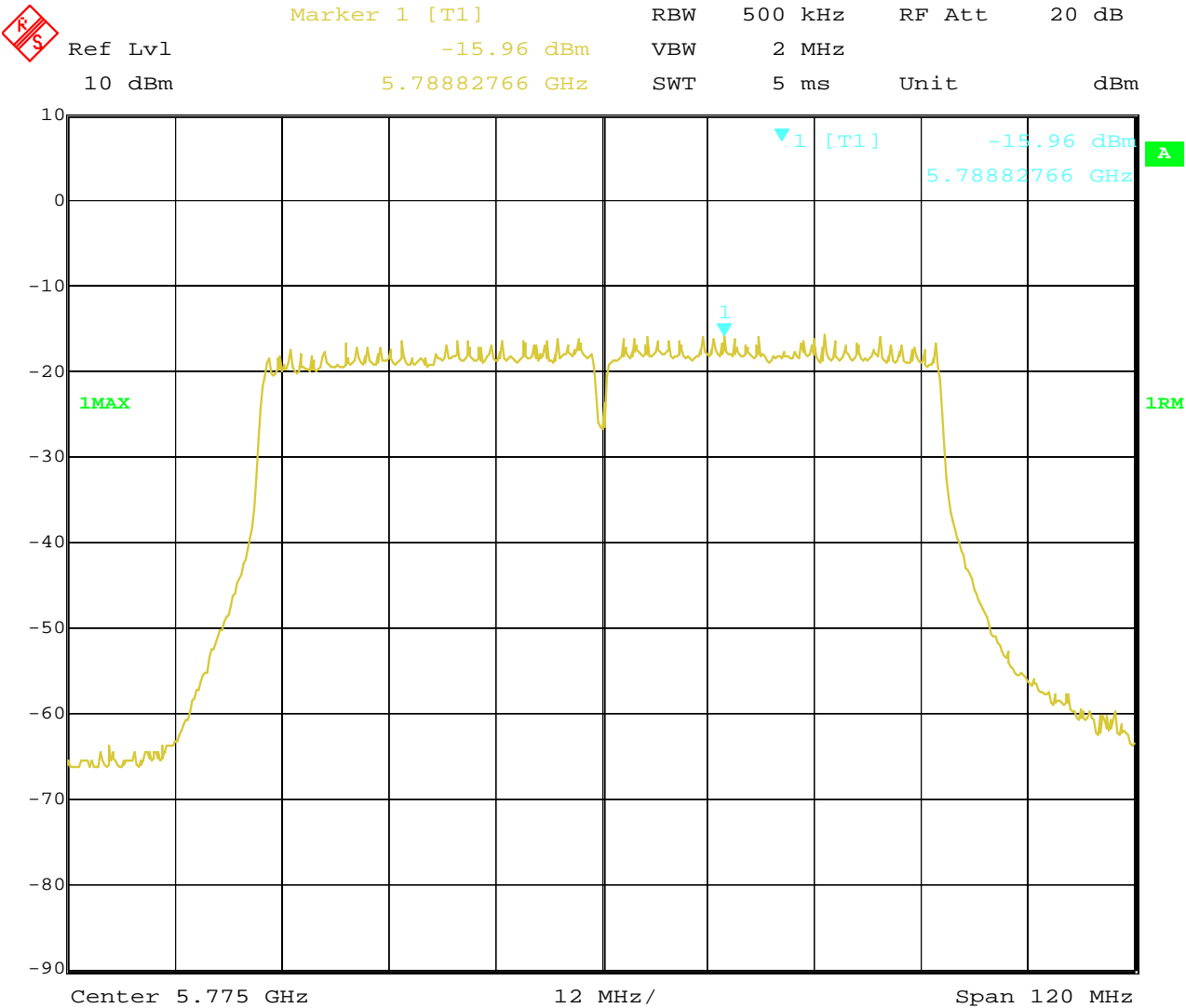
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2.802.11ac at mcs0Mbps of CH155



Date: 28.JUN.2022 11:05:15

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## **10.0 Frequency Stability**

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

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

### **10.2 Test Procedure**

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

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10.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
3.85V	5180.0319
3.3V	5180.0323
4.2V	5180.0337
Max. Deviation (MHz)	0.0337
Max. Deviation (ppm)	6.51

Rated working voltage: DC3.85V

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5180.0327
-20	5180.0340
-10	5180.0331
0	5180.0338
10	5180.0326
20	5180.0335
30	5180.0318
40	5180.0325
50	5180.0330
Max. Deviation (MHz)	0.0340
Max. Deviation (ppm)	6.56

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### Channel 149 (5745MHz)

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
3.85V	5745.0523
3.3V	5745.0535
4.2V	5745.0518
Max. Deviation (MHz)	0.0535
Max. Deviation (ppm)	9.31

Rated working voltage: DC3.85V

#### Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5745.0522
-20	5745.0513
-10	5745.0528
0	5745.0508
10	5745.0511
20	5745.0527
30	5745.0533
40	5745.0520
50	5745.0533
Max. Deviation (MHz)	0.0533
Max. Deviation (ppm)	9.28

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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**

FPC antennas used. The gain of the antennas is 0.8dBi maximum. (Declared by the applicant)

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## 12.0 FCC ID Label

### FCC ID: 2A7Q4-TBOX

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:



Label Location

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### 13.0 Photo of testing

Conducted Emission Test Setup:



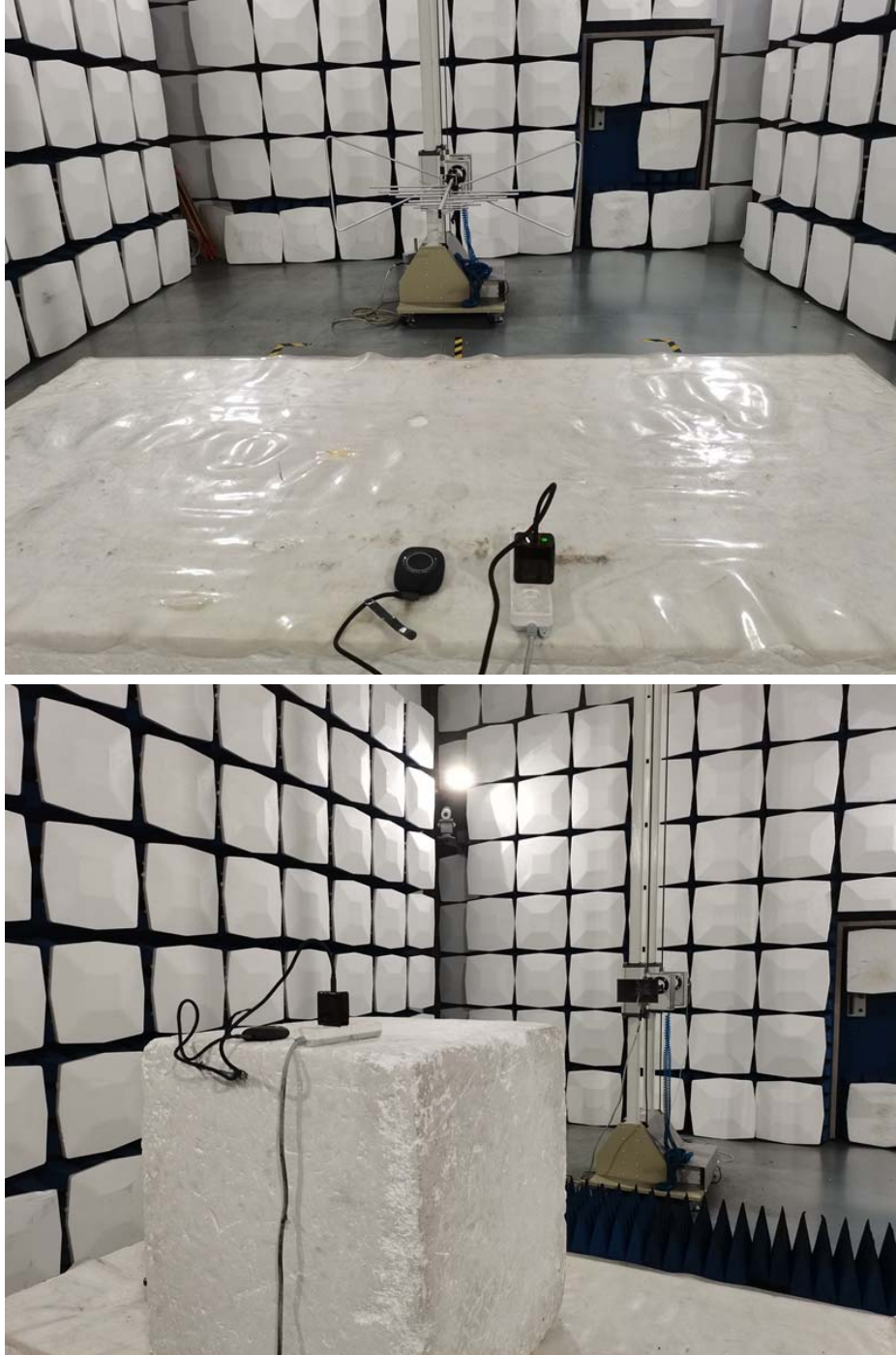
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#### Radiated Emission Test Setup



#### Photos of EUT

Please see test report TW2206192-01E

**--End of the report--**

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