

TECHNICAL REPORT



Report No.:

TW 2007156-04E

File Reference No.:

2020-08-13

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

Product: 4" HOT DESK

Model No.: ADD041

Trademark: N/A

Test Standards: FCC Part 15 Subpart E, Paragraph 15.407

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

Approved By

A handwritten signature in blue ink that appears to read "Jack Chung".

Jack Chung

Manager

Dated: August 13, 2020

Results appearing herein relate only to the sample tested

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

SHENZHEN TIMEWAY TESTING LABORATORIES

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

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



Special Statement:

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

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

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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



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-02

For 3m Anechoic Chamber

1.2 Applicant Details

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

Address: 4/Floor,west block,Longzhu Road,Xin WuCun Industry Building,NanShan District, ShenZhen China.

Telephone: (755)-26001808-305

Fax: (755)-26002933

1.3 Description of EUT

Product: 4" HOT DESK

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

Address: 4/Floor,west block,Longzhu Road,Xin WuCun Industry Building,NanShan District, ShenZhen China.

Brand Name: N/A

Additional Brand Name: N/A

Model Number: ADD041

Additional Model Number: N/A

Type of Modulation IEEE 802.11a/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK); IEEE 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Frequency Band 1: 5180MHz-5240MHz

Channel Separation 802.11a/802.11n20:20MHz, 802.11n40:40MHz, 802.11ac : 80MHz

Air Data Rate IEEE 802.11a : 54, 48, 36, 24, 18, 12, 9, 6 Mbps

IEEE 802.11n/HT20: mcs0: 6.5Mbps, mcs1: 13Mbps, mcs2: 19.5Mbps, mcs3: 26Mbps, mcs4: 39Mbps, mcs5: 52Mbps, mcs6: 58.5Mbps, mcs7: 65Mbps

IEEE 802.11n/HT40: mcs0: 15Mbps, mcs1: 30Mbps, mcs2: 45Mbps, mcs3: 60Mbps, mcs4: 90Mbps, mcs5: 120Mbps, mcs6: 135Mbps, mcs7: 150Mbps

IEEE 802.11ac: Up to 433.3Mbps

Antenna: Integral antenna used.

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Antenna Gain: Maximum 2.95dBi. (get from the antenna specification provided 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; 23.9Mbps air data rate was the worst case for 802.11ac mode.
Frequency Selection By software
Input Voltage: DC5V, 0.6A

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				

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				

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

1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2020-07-13 to 2020-08-13

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

A handwritten signature in black ink that reads "Terry Tang".

The sample tested by _____

Print Name: Terry Tang

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

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3.0 Technical Details

3.1 Summary of test results

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

3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247, ANSI C63.10 :2013, 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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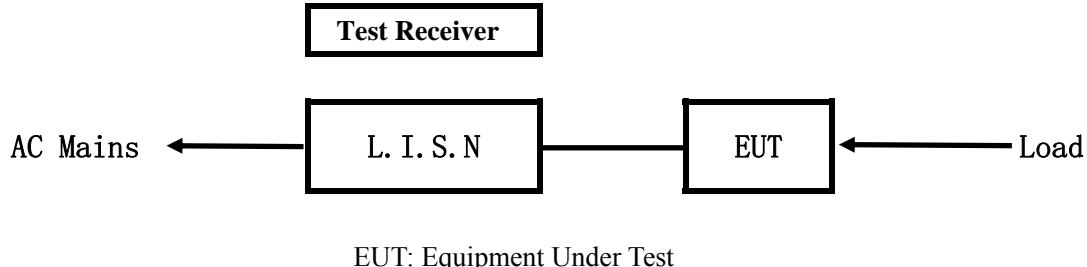
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

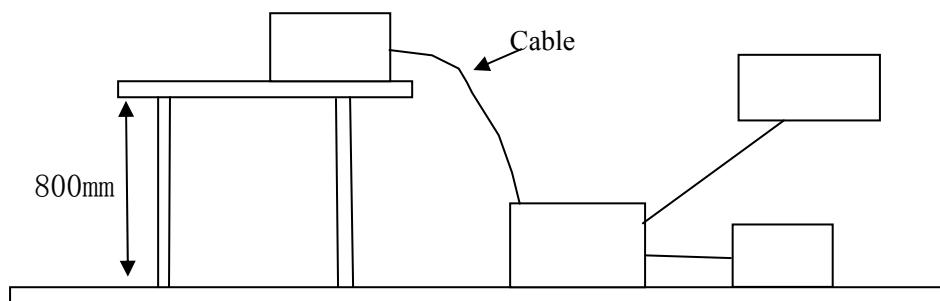


5.2 Test Method and test Procedure

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
4" HOT DESK	GLORY STAR TECHNICS (SHENZHEN) CO., LTD.	ADD041	2AACS-ADD041

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	FUJIA	FJ-SW1260502000DN	Input: 100-240V~, 50/60Hz, 0.4A; 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 and 15.107

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

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

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

EUT Operating Environment

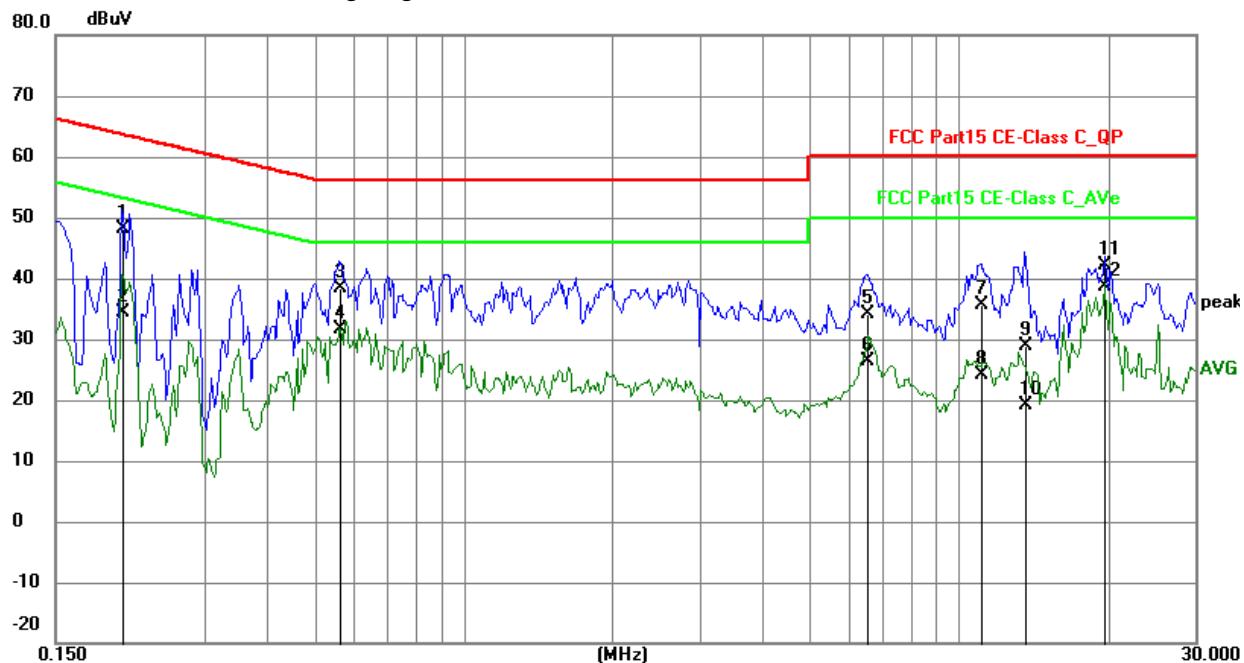
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keeping WIFI Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2046	38.49	9.75	48.24	63.42	-15.18	QP	P
2	0.2046	24.60	9.75	34.35	53.42	-19.07	AVG	P
3	0.5633	28.71	9.77	38.48	56.00	-17.52	QP	P
4	0.5633	21.83	9.77	31.60	46.00	-14.40	AVG	P
5	6.4944	24.14	9.99	34.13	60.00	-25.87	QP	P
6	6.4944	16.44	9.99	26.43	50.00	-23.57	AVG	P
7	11.0925	25.34	10.21	35.55	60.00	-24.45	QP	P
8	11.0925	13.90	10.21	24.11	50.00	-25.89	AVG	P
9	13.5768	18.44	10.32	28.76	60.00	-31.24	QP	P
10	13.5768	8.77	10.32	19.09	50.00	-30.91	AVG	P
11	19.7076	31.56	10.66	42.22	60.00	-17.78	QP	P
12	19.7076	28.08	10.66	38.74	50.00	-11.26	AVG	P

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

EUT Operating Environment

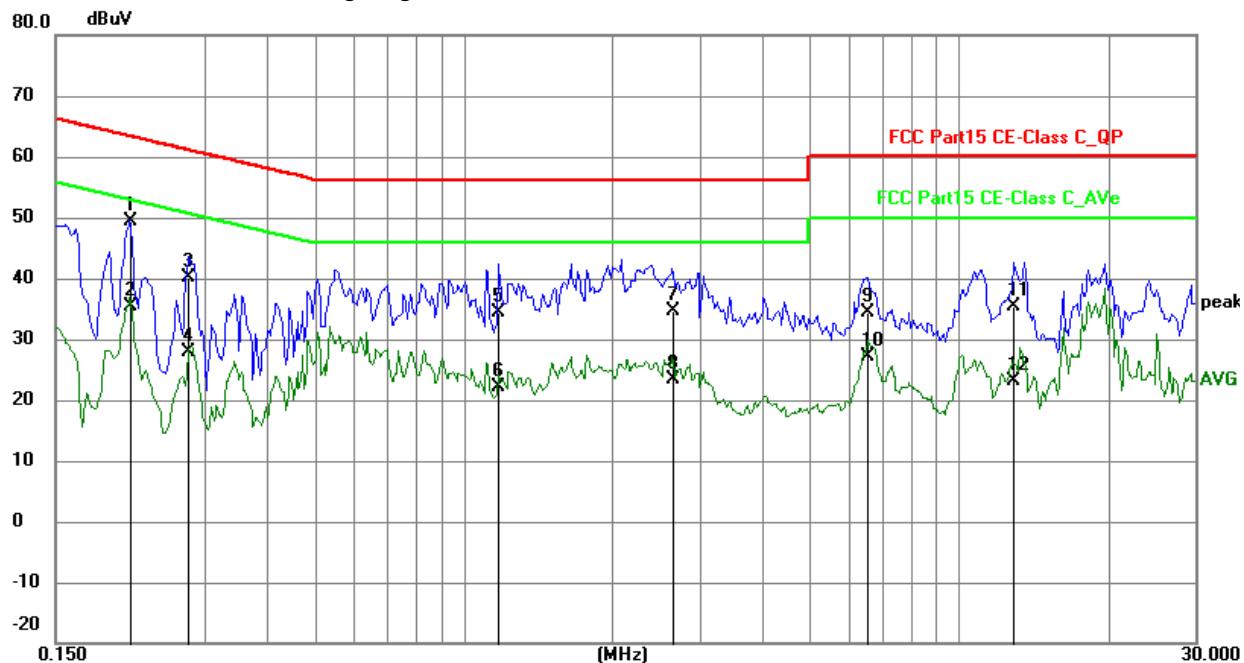
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keeping WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2124	39.60	9.75	49.35	63.11	-13.76	QP	P
2	0.2124	25.60	9.75	35.35	53.11	-17.76	AVG	P
3	0.2787	30.31	9.76	40.07	60.85	-20.78	QP	P
4	0.2787	18.15	9.76	27.91	50.85	-22.94	AVG	P
5	1.1756	24.62	9.79	34.41	56.00	-21.59	QP	P
6	1.1756	12.36	9.79	22.15	46.00	-23.85	AVG	P
7	2.6500	24.68	9.83	34.51	56.00	-21.49	QP	P
8	2.6500	13.67	9.83	23.50	46.00	-22.50	AVG	P
9	6.5139	24.50	9.99	34.49	60.00	-25.51	QP	P
10	6.5139	17.10	9.99	27.09	50.00	-22.91	AVG	P
11	12.8826	25.05	10.29	35.34	60.00	-24.66	QP	P
12	12.8826	12.94	10.29	23.23	50.00	-26.77	AVG	P

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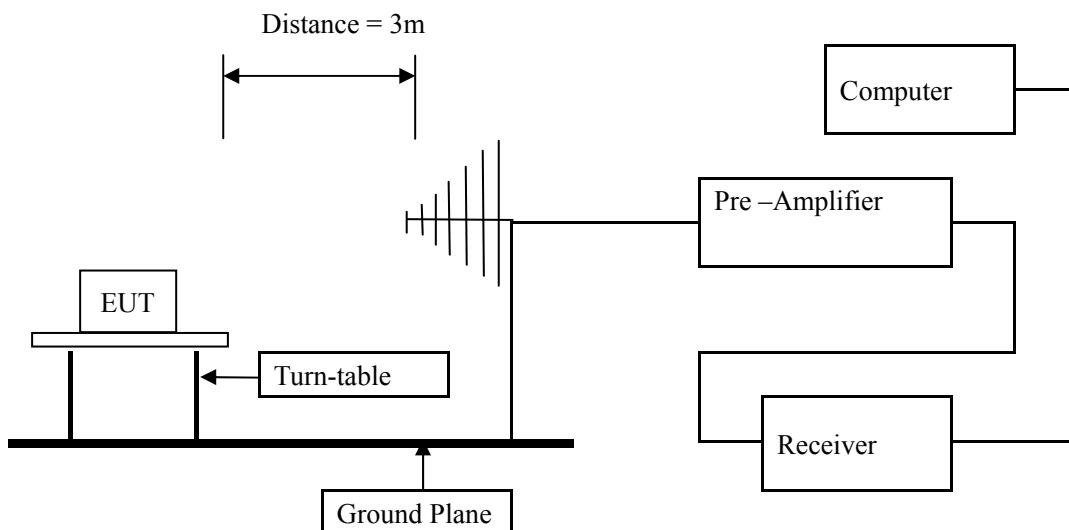


6 Undesirable Emission and Restrict band

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at GTS EMC Laboratory. This site is on file with the IC laboratory division, Registration No.9079A-02
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 40 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz, VBW=3MHz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

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

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

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

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

Note:

1. RF Voltage (dBuV) = $20 \log_{10}$ RF Voltage (uV)
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

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

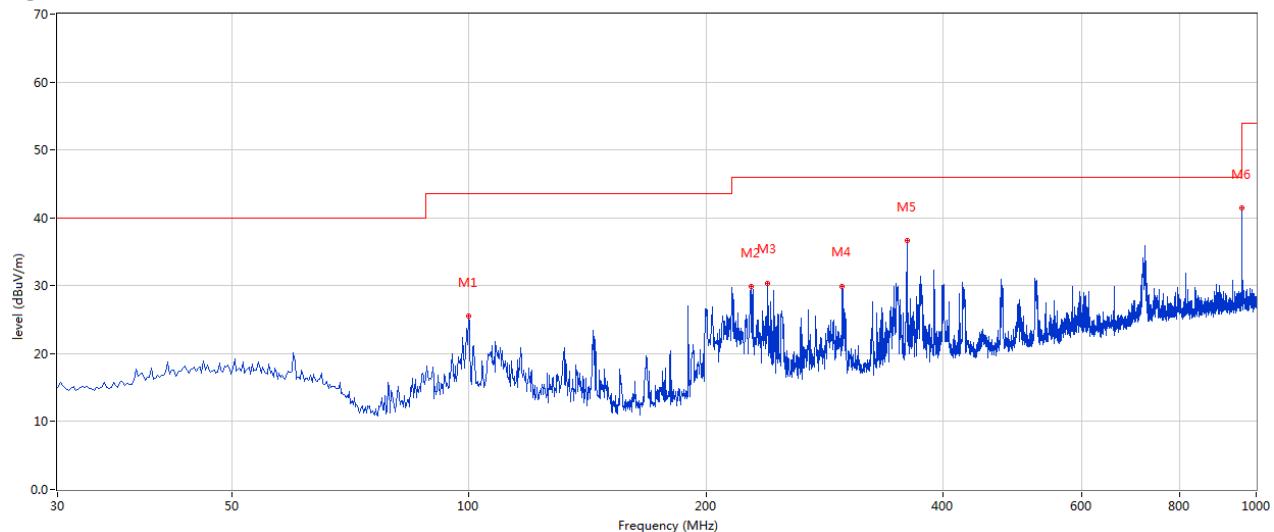
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Test Figure:

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequen cy (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	99.823	25.47	-13.56	43.5	-18.03	Peak	66.00	200	H	Pass
2	228.073	29.91	-12.77	46.0	-16.09	Peak	63.00	200	H	Pass
3	239.710	30.41	-12.33	46.0	-15.59	Peak	139.00	200	H	Pass
4	298.138	29.96	-11.16	46.0	-16.04	Peak	254.00	100	H	Pass
5	359.960	36.59	-9.46	46.0	-9.41	Peak	0.00	100	H	Pass
6	960.240	41.39	-1.63	54.0	-12.61	Peak	140.00	100	H	Pass

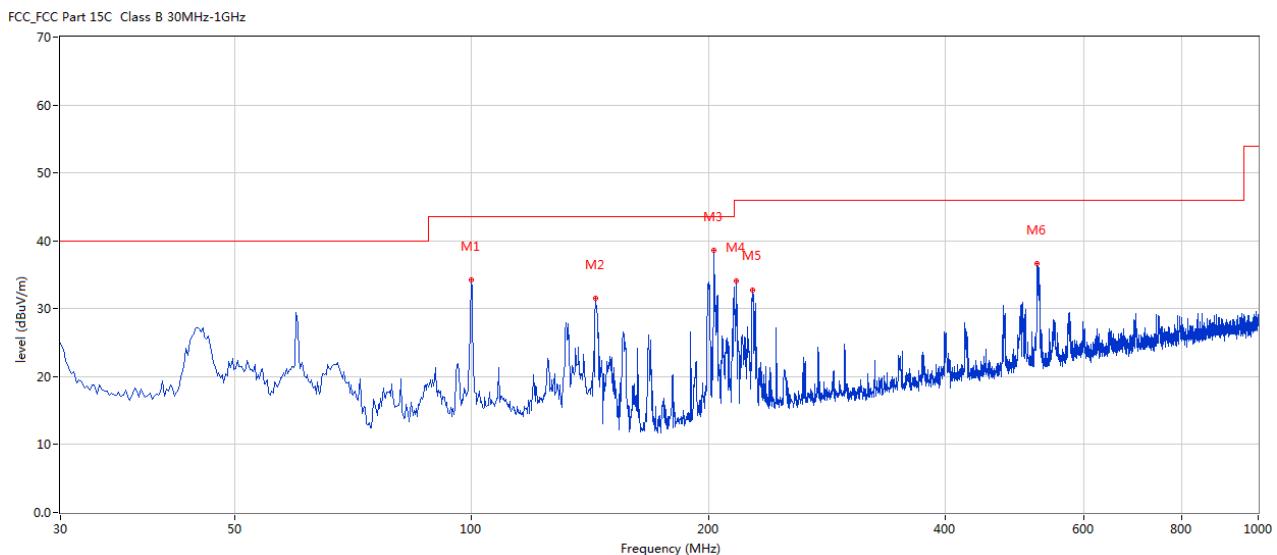
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Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	99.823	34.20	-13.56	43.5	-9.30	Peak	75.00	100	V	Pass
2	143.947	31.51	-17.10	43.5	-11.99	Peak	334.00	100	V	Pass
3	203.344	38.57	-13.46	43.5	-4.93	Peak	87.00	100	V	Pass
4	217.163	34.07	-13.49	46.0	-11.93	Peak	32.00	100	V	Pass
5	227.831	32.80	-12.78	46.0	-13.20	Peak	24.00	100	V	Pass
6	523.849	36.63	-6.62	46.0	-9.37	Peak	64.00	100	V	Pass

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5180.00	99.93 (PK)	H	Fundamental Frequency
5180.00	85.58 (PK)	V	
10360	50.94 (PK)	H	74(Peak)/ 54(AV)
10360	51.16 (PK)	V	74(Peak)/ 54(AV)
15540	--	V	74(Peak)/ 54(AV)
20720	--	H/V	74(Peak)/ 54(AV)
25900	--	H/V	74(Peak)/ 54(AV)
31080	--	H/V	74(Peak)/ 54(AV)
36260	--	H/V	74(Peak)/ 54(AV)

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

Operation Mode: Keeping Transmitting under CH40 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5200.00	98.54 (PK)	H	Fundamental Frequency
5200.00	85.49 (PK)	V	
10400	50.30 (PK)	H	74(Peak)/ 54(AV)
10400	51.68 (PK)	V	74(Peak)/ 54(AV)
15600	--	V	74(Peak)/ 54(AV)
20800	--	H/V	74(Peak)/ 54(AV)
26000	--	H/V	74(Peak)/ 54(AV)
31200	--	H/V	74(Peak)/ 54(AV)
36400	--	H/V	74(Peak)/ 54(AV)

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

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Operation Mode: Keeping Transmitting under CH48 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5240.00	98.39 (PK)	H	Fundamental Frequency
5240.00	84.95 (PK)	V	
10480	50.31 (PK)	H	74(Peak)/ 54(AV)
15720	51.18 (PK)	V	74(Peak)/ 54(AV)
20960	--	H/V	74(Peak)/ 54(AV)
26200	--	H/V	74(Peak)/ 54(AV)
31440	--	H/V	74(Peak)/ 54(AV)
36680	--	H/V	74(Peak)/ 54(AV)

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

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

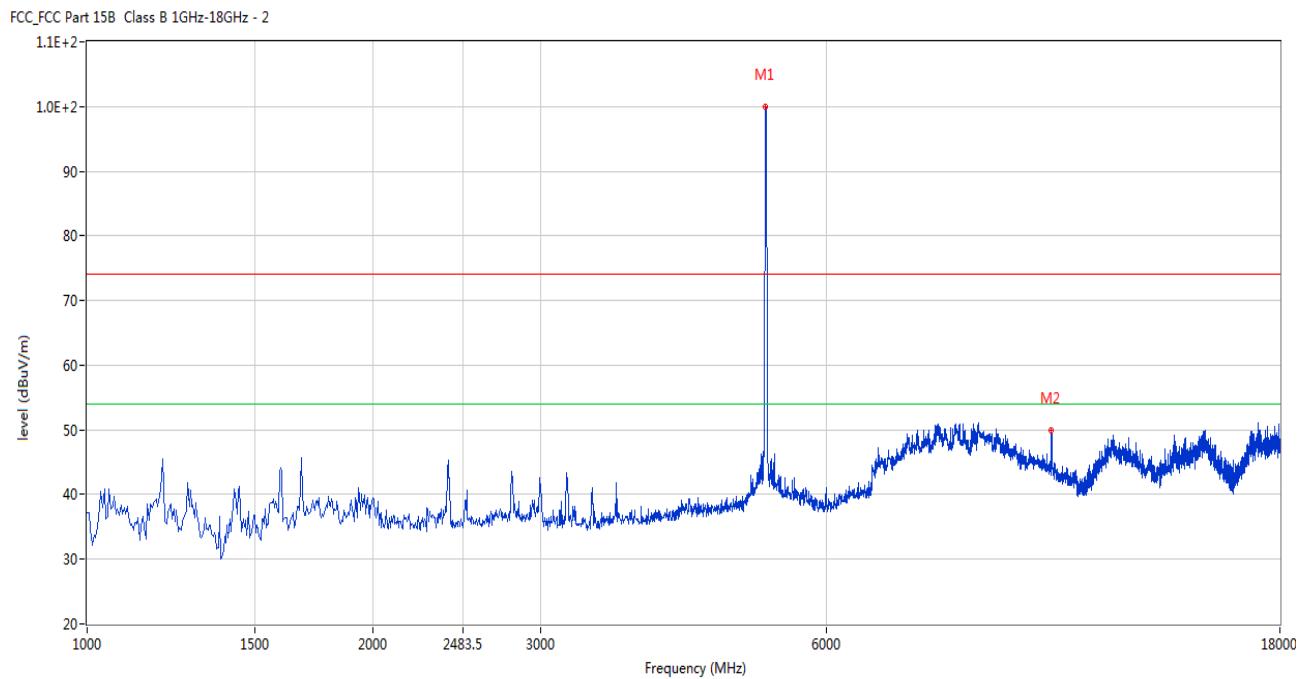
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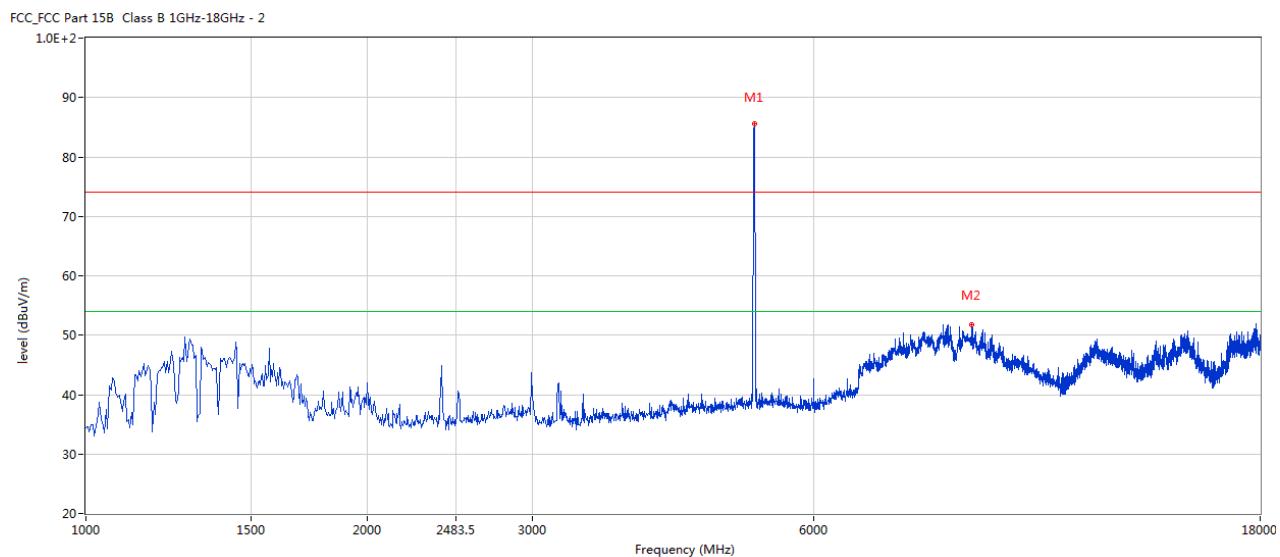


Please refer to the following test plots for details:

CH36 for 11a at 6Mbps: Horizontal



CH36 for 11a at 6Mbps: Vertical



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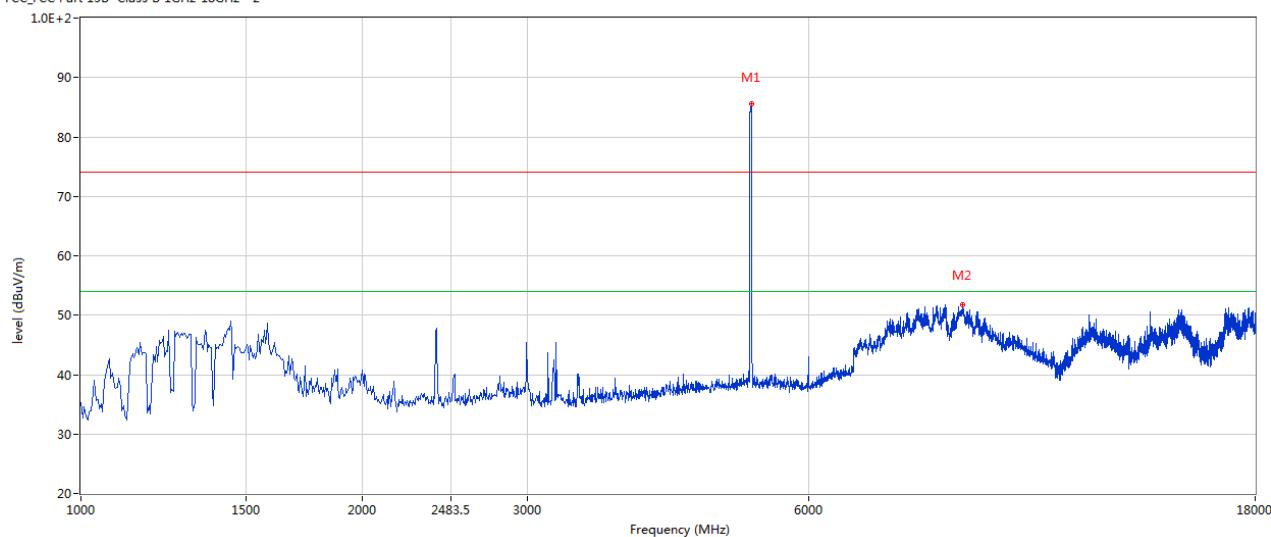
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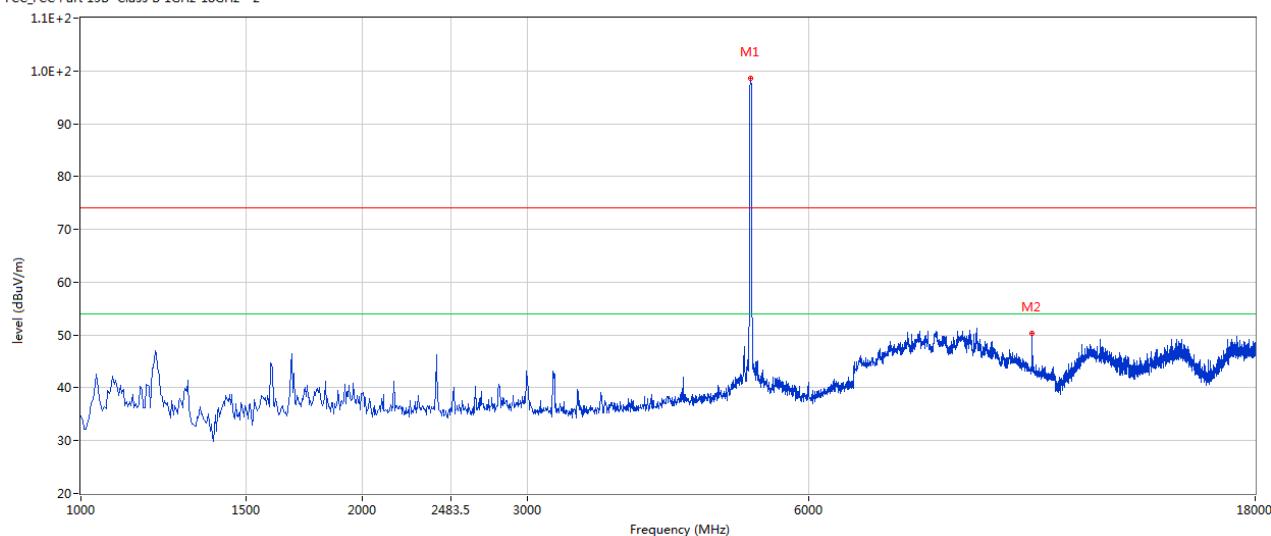
CH40 for 11a at 6Mbps: Vertical

FCC_FCC Part 15B Class B 1GHz-18GHz - 2



CH40 for 11a at 6Mbps: Horizontal

FCC_FCC Part 15B Class B 1GHz-18GHz - 2



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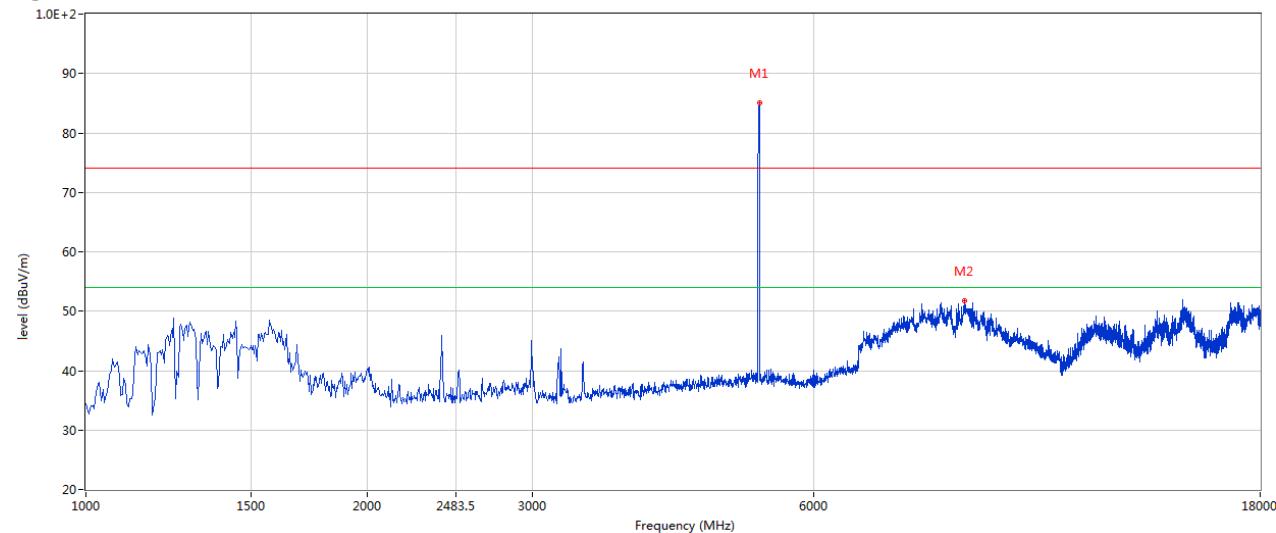
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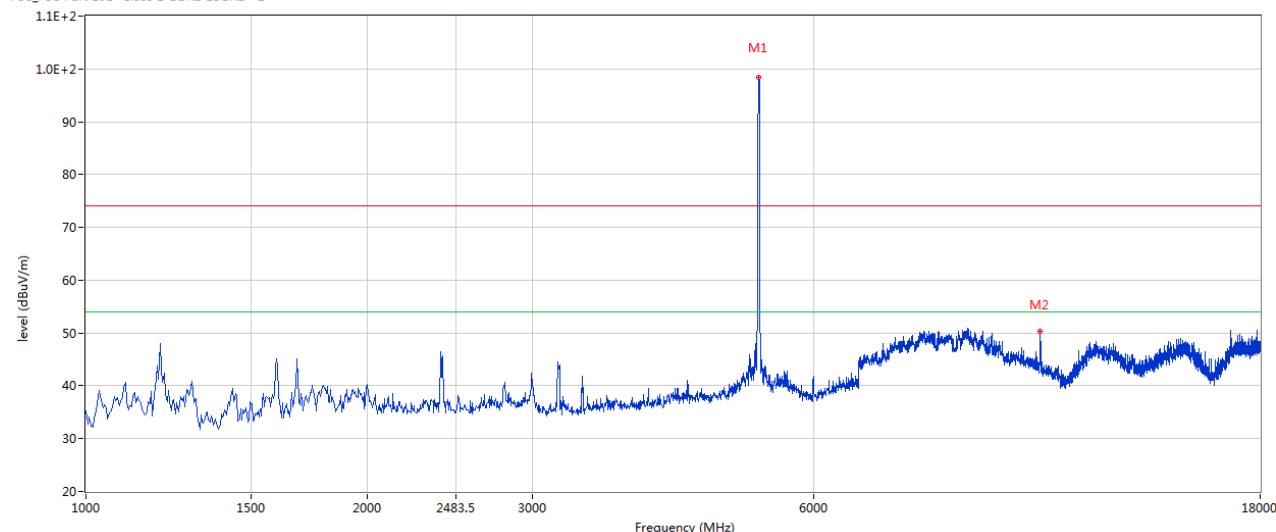
CH48 for 11a at 6Mbps: Vertical

FCC_FCC Part 15B Class B 1GHz-18GHz - 2



CH48 for 11g at 6Mbps: Horizontal

FCC_FCC Part 15B Class B 1GHz-18GHz - 2



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

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Restricted band Measurement				
EUT	4" HOT DESK	Test Mode:	Channel 36 (5180MHz)-11a	
Mode	Keeping Transmitting	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
5150	PK (dB μ V/m)	48.73 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.47		
Polarity	Horizontal	--	--	
Test Figure				

Remark: 1. According to KDB 789033 v01r03 section H) d) (iii), 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 E[dB μ V/m]=48.73 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.73 - 95.2 = -46.47 \text{ dBm}$$

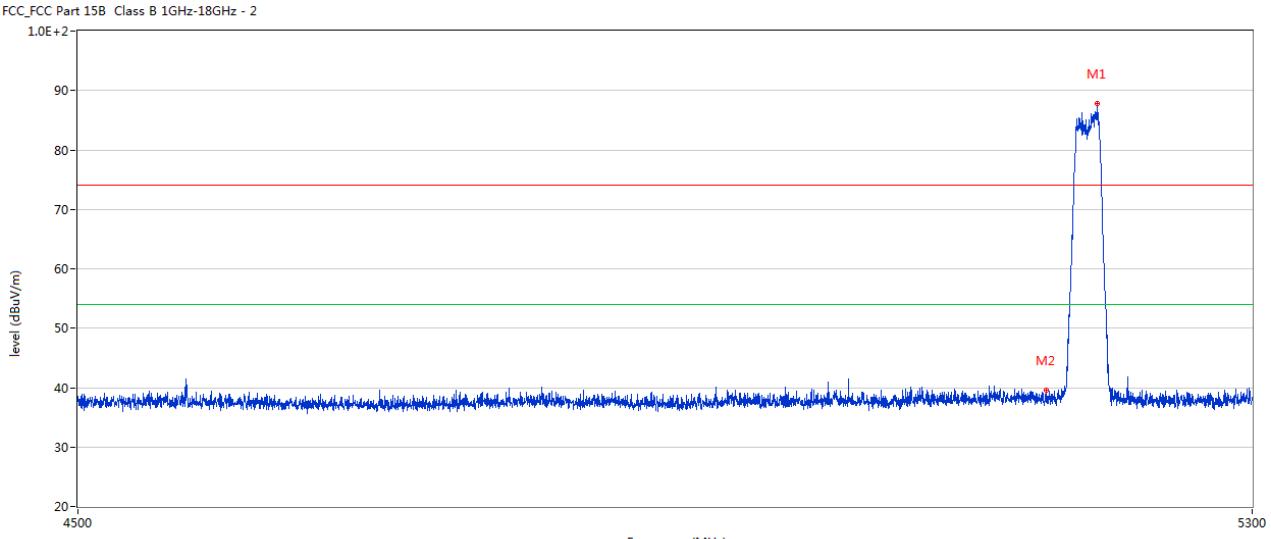
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	39.61 (PK)	Limit
	EIRP (dBm)	-55.59	
Polarity	Vertical	--	--
Test Figure			
			

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:

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

For Example, if E[dB μ V/m]=39.61 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB μ V/m]} - 95.2 = 39.61 - 95.2 = -55.59 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	50.29 (PK)	Limit
	EIRP (dBm)	-44.91	
Polarity	Horizontal		
Test Figure			

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 E[dB μ V/m]=50.29 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.29 - 95.2 = -44.91 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	46.90 (PK)	Limit
	EIRP (dBm)	-48.30	
Polarity	Vertical	--	--
Test Figure			

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 E[dB μ V/m]=46.90 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.90 - 95.2 = -48.30 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	47.63 (PK)	Limit
	EIRP (dBm)	-47.57	
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 E[dB μ V/m]= 47.63dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.63 - 95.2 = -47.57 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	39.25 (PK)	Limit
	EIRP (dBm)	-54.28	
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 E[dB μ V/m]= 39.25 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 39.25 - 95.2 = -55.95 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	49.33(PK)	Limit
	EIRP (dBm)	-45.87	
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 E[dB μ V/m]= 49.33 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.33 - 95.2 = -45.87 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	45.28(PK)	Limit
	EIRP (dBm)	-49.92	
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 E[dB μ V/m]= 45.28 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.28 - 95.2 = -49.92 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	47.09 (PK)	Limit
	EIRP (dBm)	-48.11	
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 E[dB μ V/m]= 47.09 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.09 - 95.2 = -48.11 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	39.52 (PK)	Limit
	EIRP (dBm)	-55.68	
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 E[dB μ V/m]= 39.52 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 39.52 - 95.2 = -55.68 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	48.81(PK)	Limit
	EIRP (dBm)	-46.39	
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 E[dB μ V/m]=48.81dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.81 - 95.2 = -46.39 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5250	PK (dB μ V/m)	49.07(PK)	Limit
	EIRP (dBm)	-46.13	
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 E[dB μ V/m]= 49.07 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.07 - 95.2 = -46.13 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	46.92 (PK)	Limit
	EIRP (dBm)	-48.28	
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 E[dB μ V/m]= 46.92 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.92 - 95.2 = -48.28 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	4" HOT DESK	Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
5150	PK (dB μ V/m)	46.83 (PK)	Limit
	EIRP (dBm)	-48.37	
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 E[dB μ V/m]= 46.83 dB μ V/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.83 - 95.2 = -48.37 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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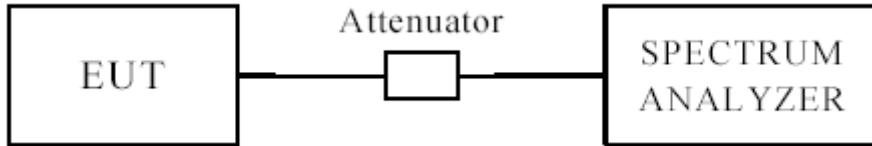
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7.0 Emission Bandwidth

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		4" HOT DESK		Model	ADD041
Mode		802.11a		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	6	22.28	--	Pass
40	5200	6	22.04	--	Pass
48	5240	6	21.88	--	Pass
99% Bandwidth					
36	5180	6	17.15	--	Pass
40	5200	6	17.23	--	Pass
48	5240	6	17.15	--	Pass

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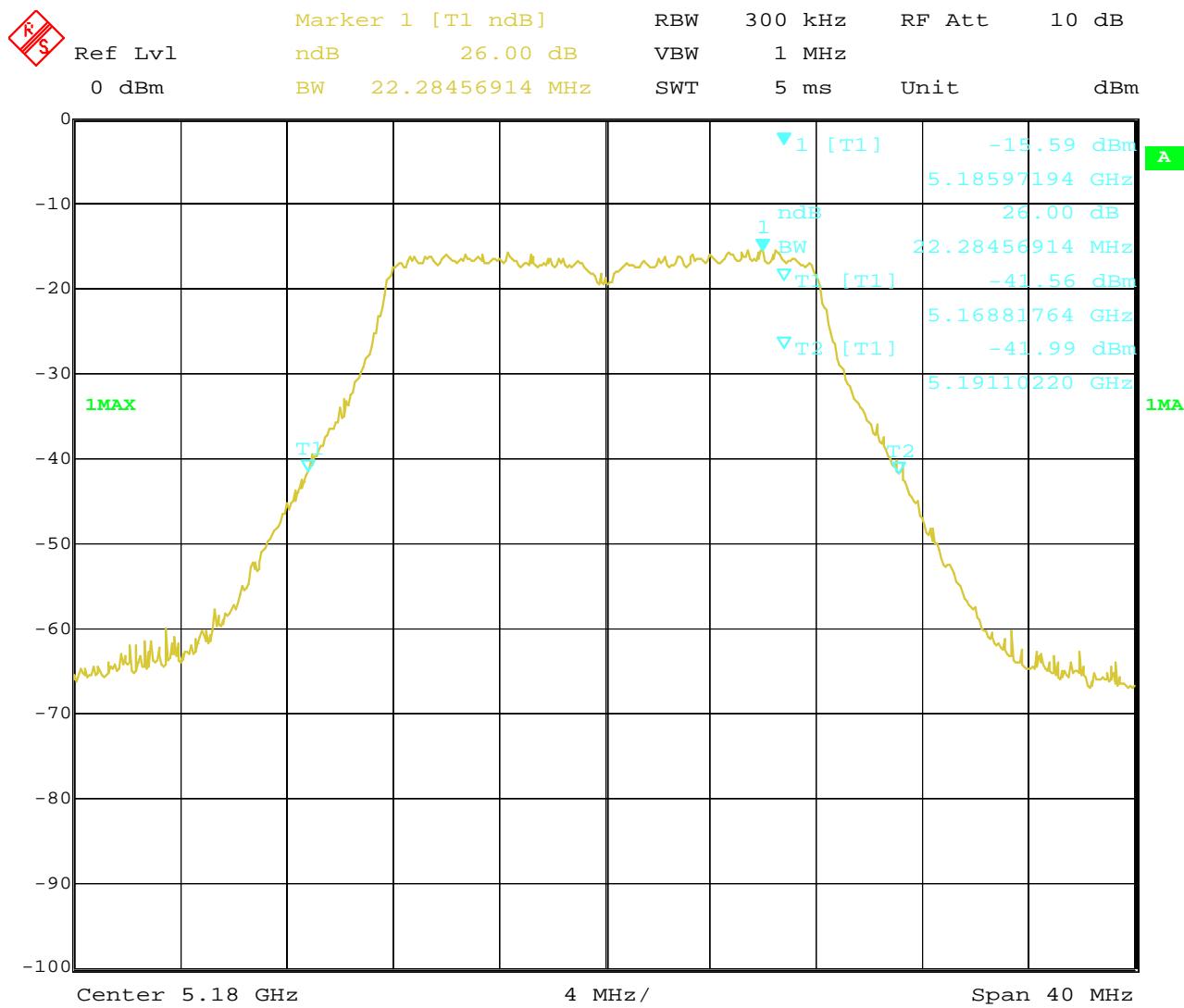
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Test Figure:

26dB Bandwidth

Channel 36



Date: 13.AUG.2020 10:43:21

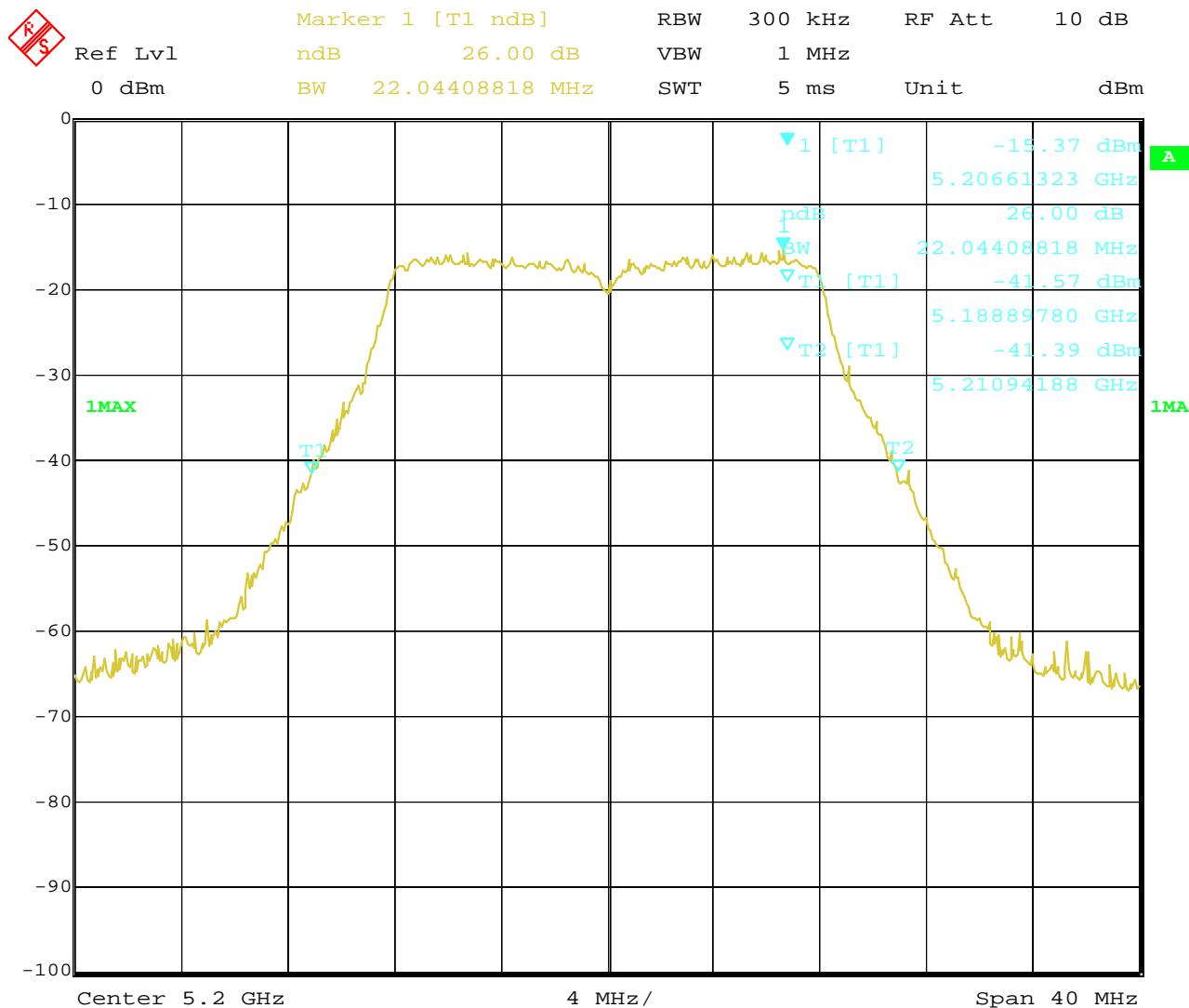
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Channel 40



Date: 13.AUG.2020 10:45:29

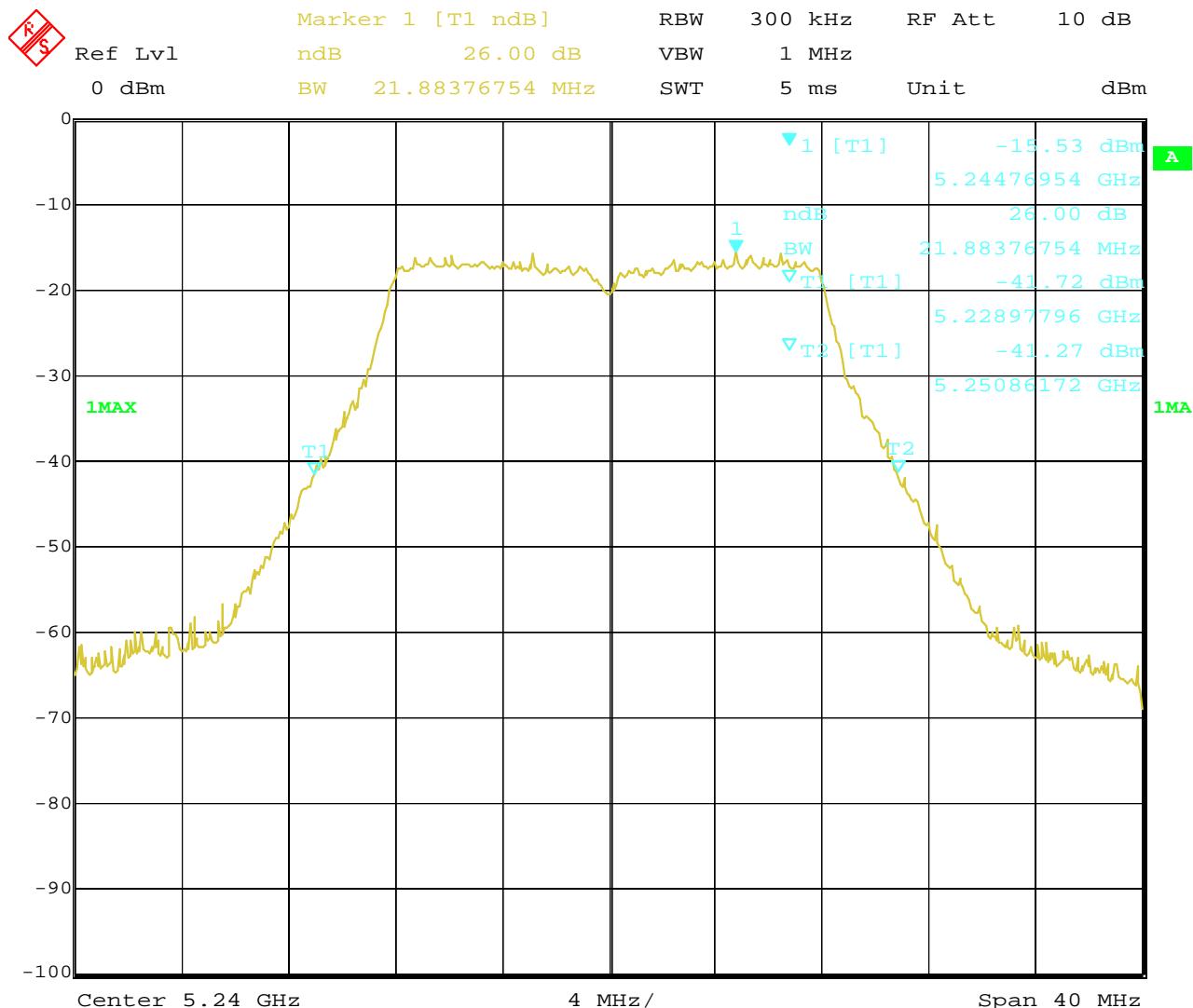
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Channel 48



Date: 13.AUG.2020 10:47:17

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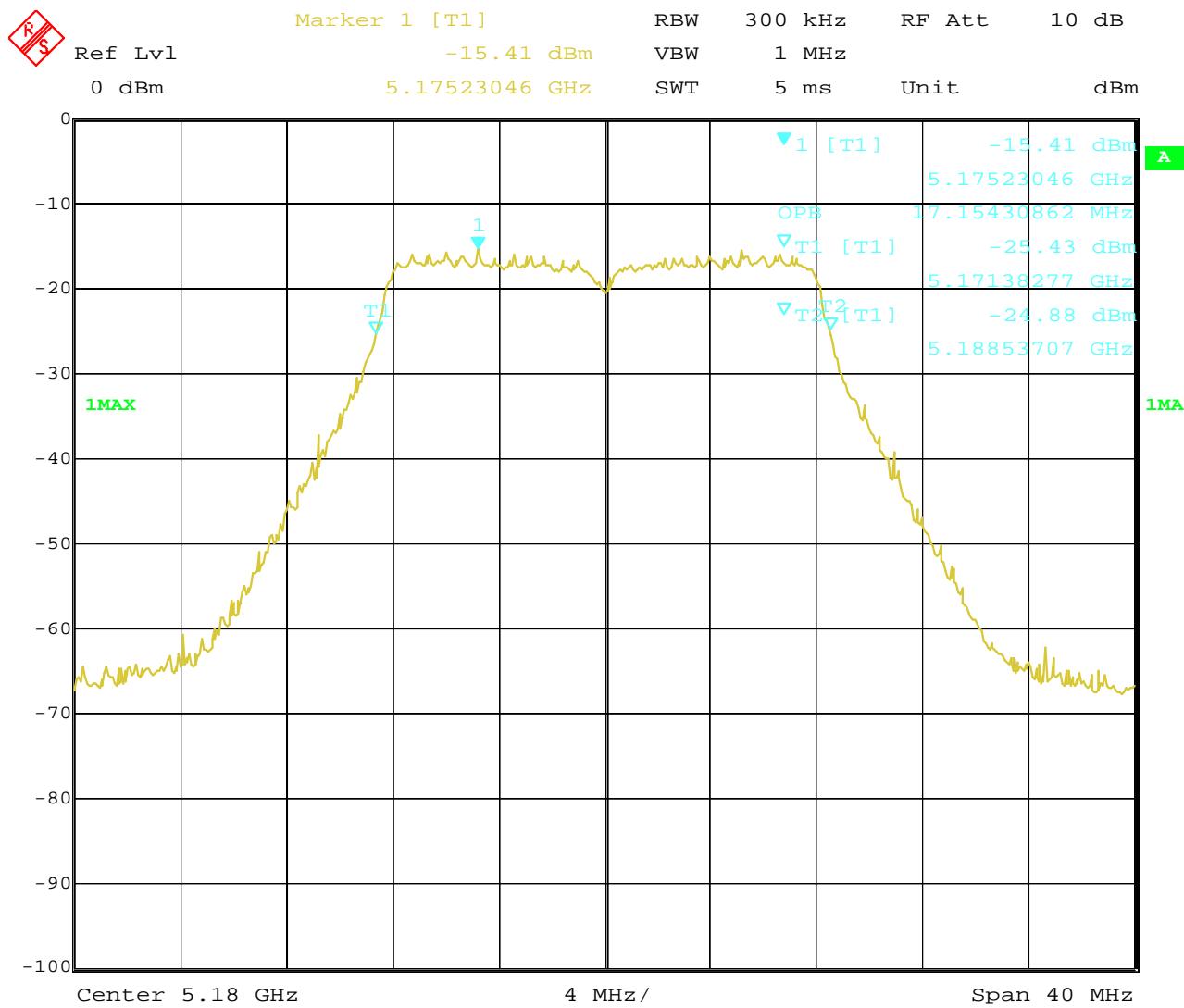
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Test Figure:

99% Bandwidth

Channel 36



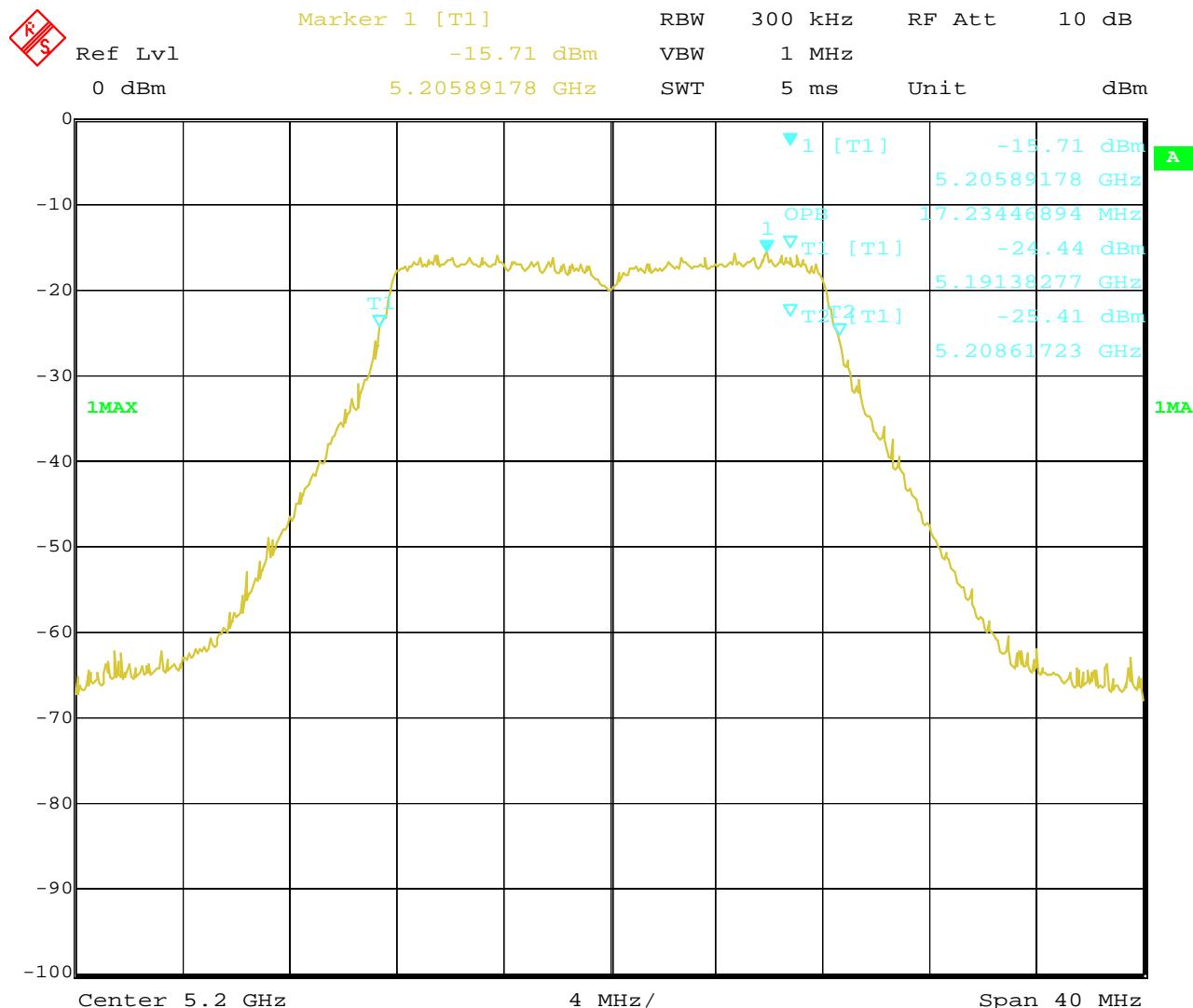
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Channel 40



Date: 13.AUG.2020 10:50:08

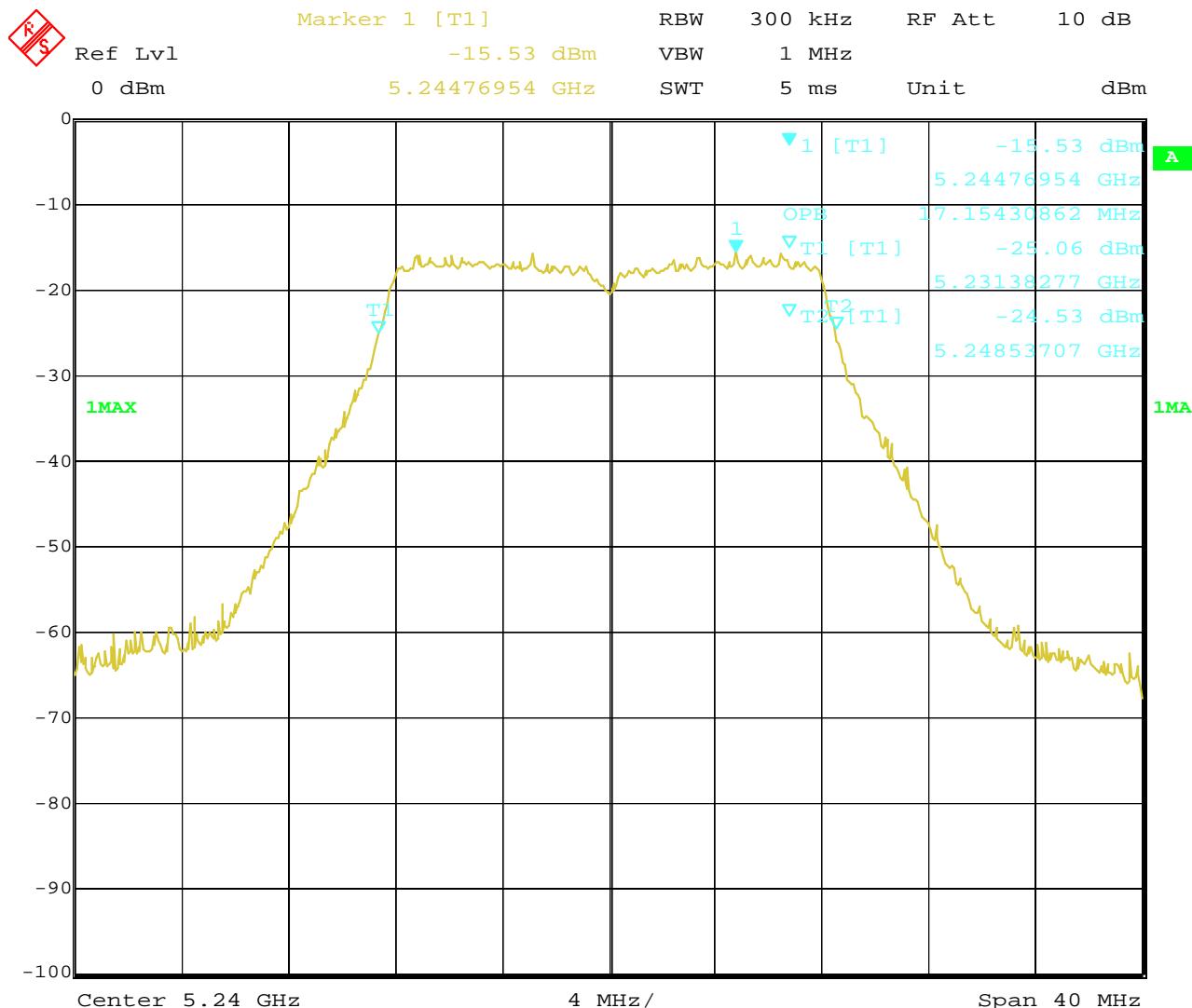
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Channel 48



Date: 13.AUG.2020 10:48:07

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EUT		4" HOT DESK		Model		ADD041			
Mode		802.11n HT20		Input Voltage		120V~			
Temperature		24 deg. C,		Humidity		56% RH			
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail				
26dB Bandwidth									
36	5180	mcs0	22.61	--	Pass				
40	5200	mcs0	22.44	--	Pass				
48	5240	mcs0	22.69	--	Pass				
99% Bandwidth									
36	5180	mcs0	18.12	--	Pass				
40	5200	mcs0	18.12	--	Pass				
48	5240	mcs0	18.12	--	Pass				

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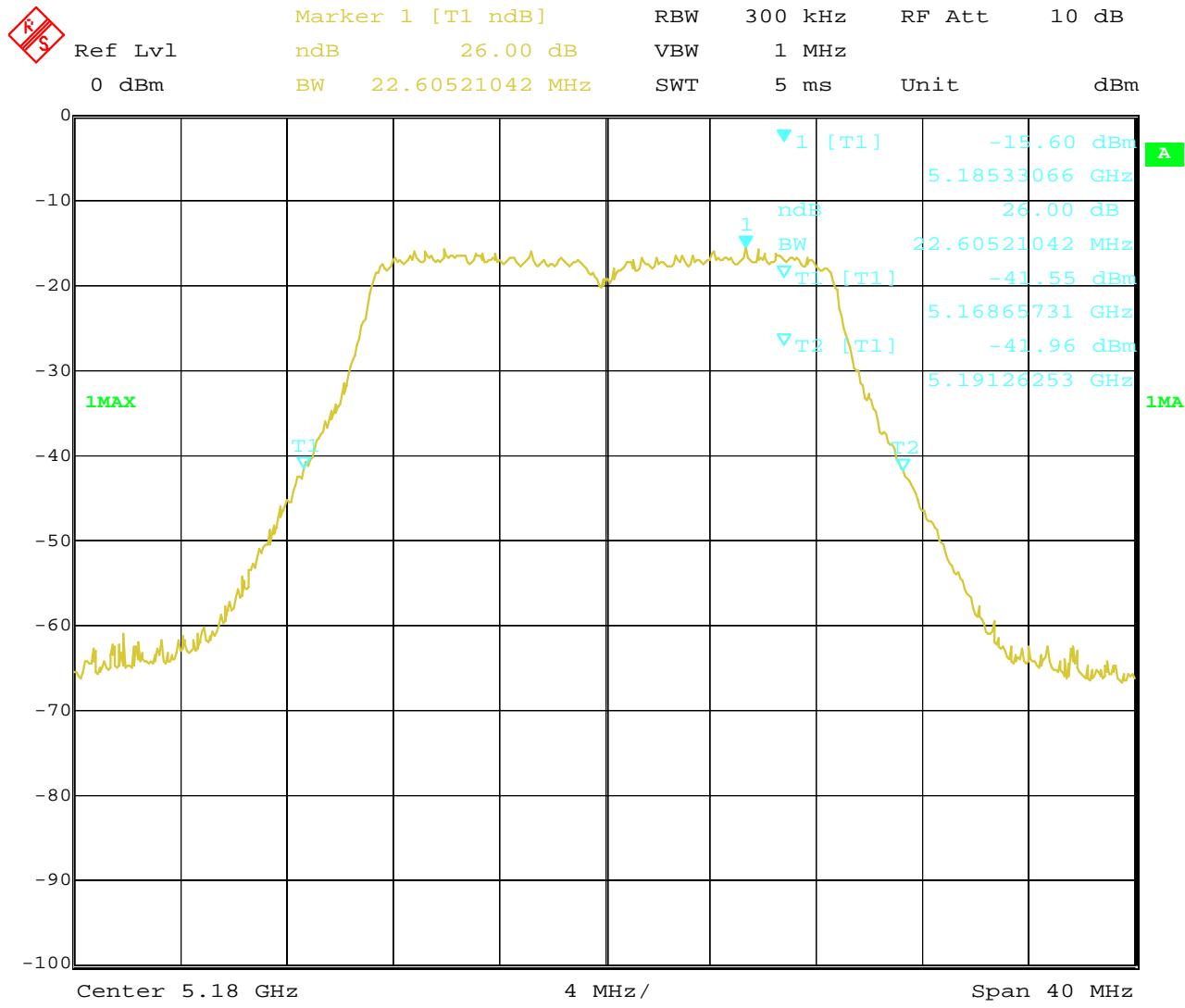
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Test Configure

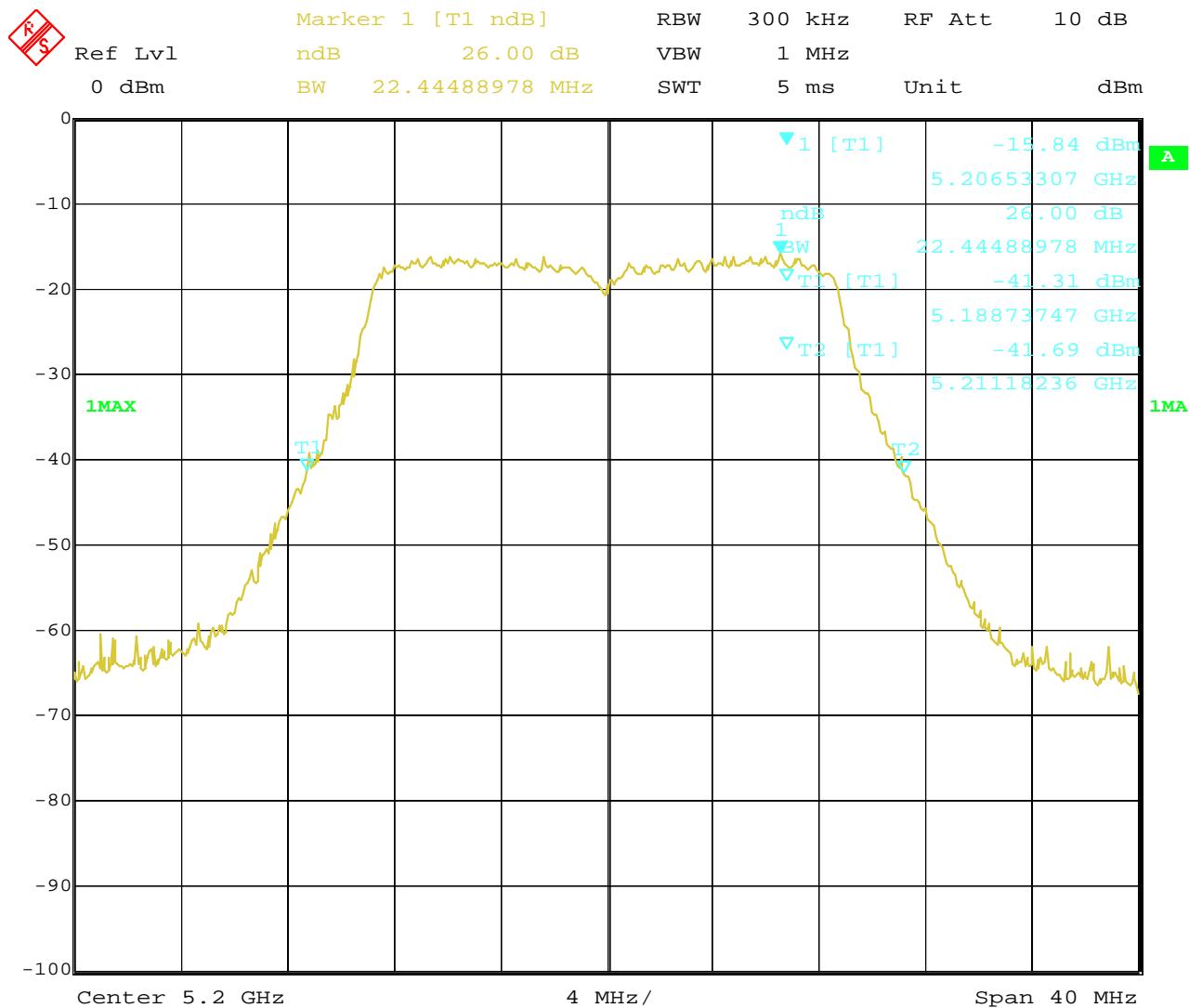
26dB Bandwidth

Channel 36





Channel 40



Date: 13.AUG.2020 10:58:14

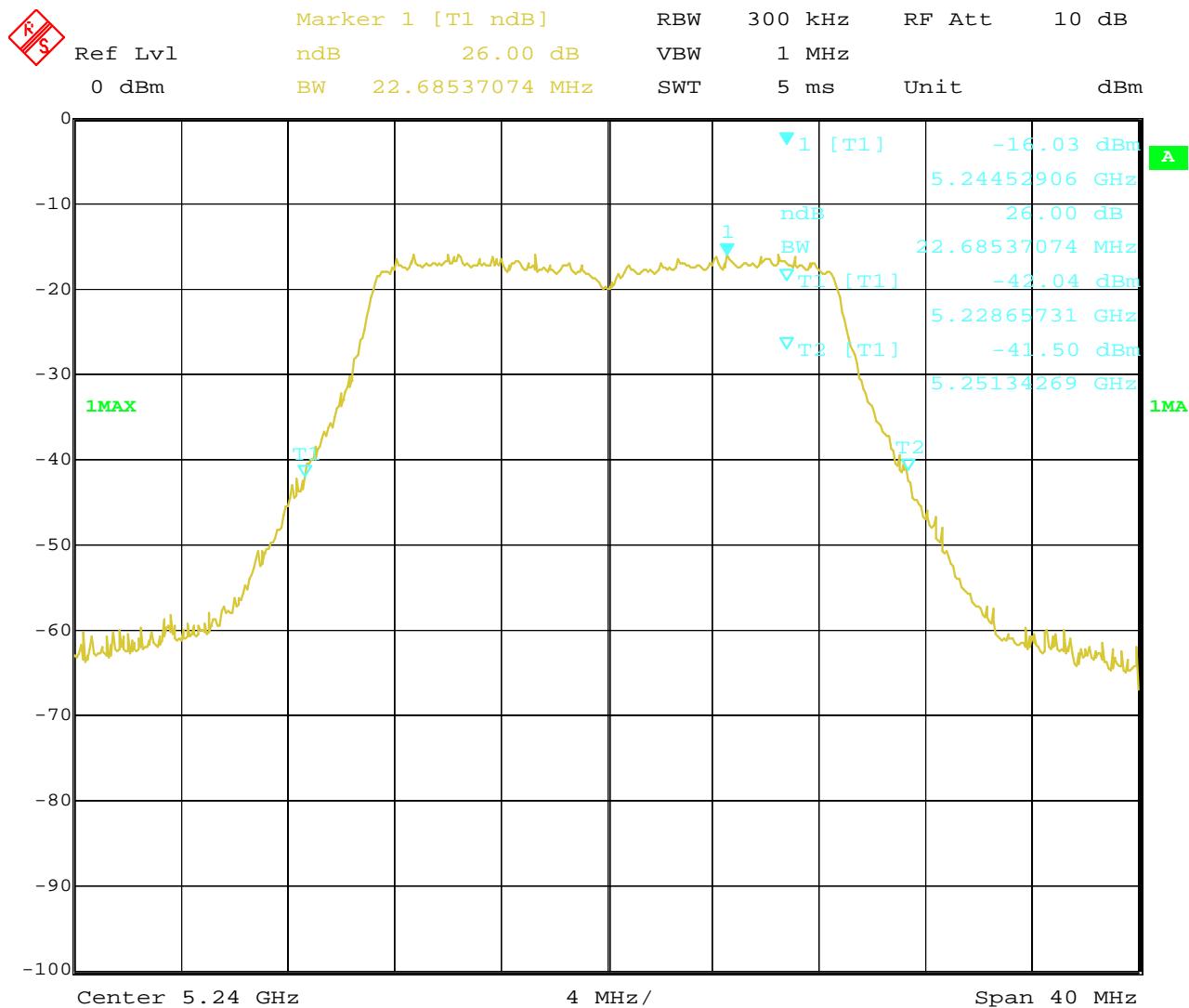
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Channel 48



Date: 13.AUG.2020 11:05:17

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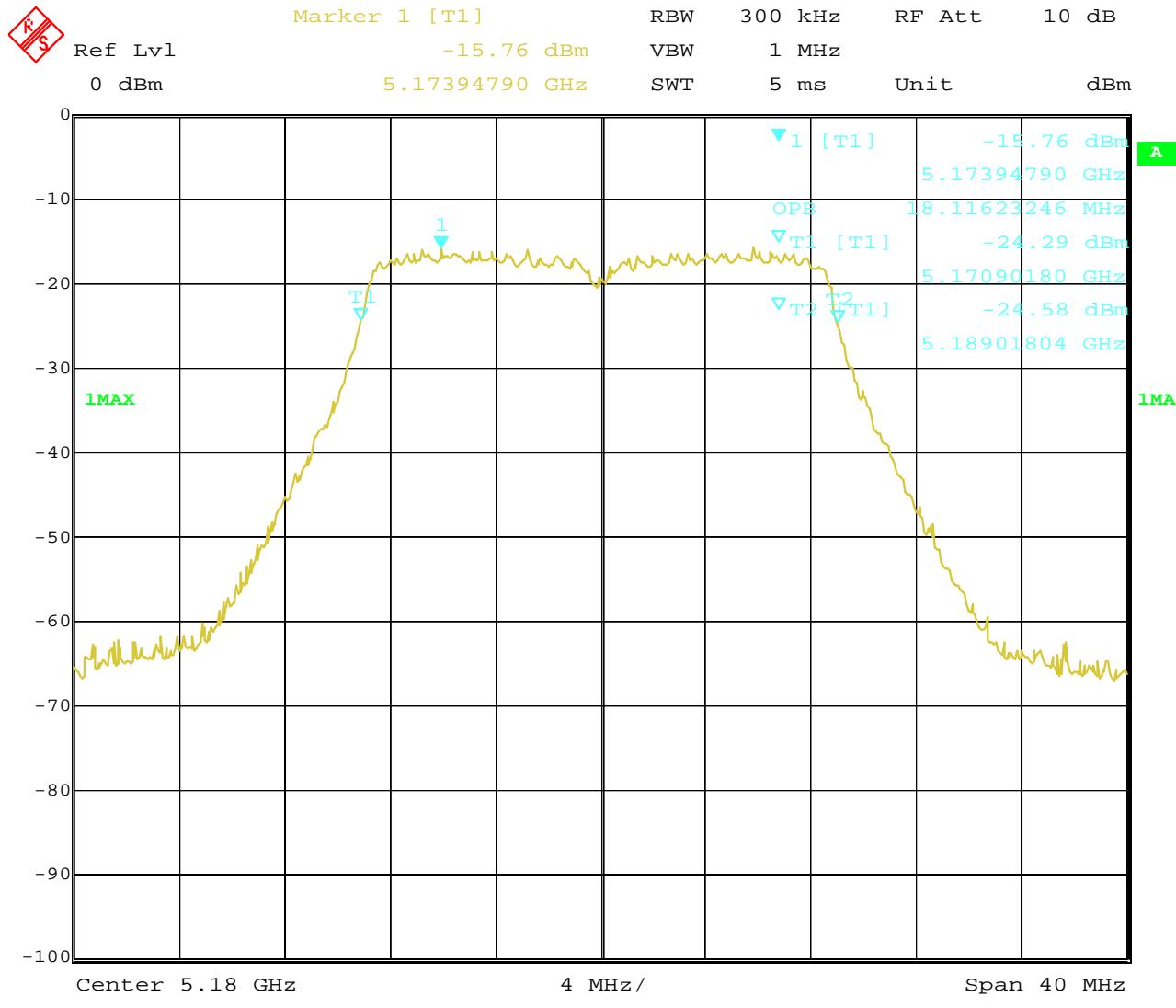
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Test Configure

99% Bandwidth

Channel 36



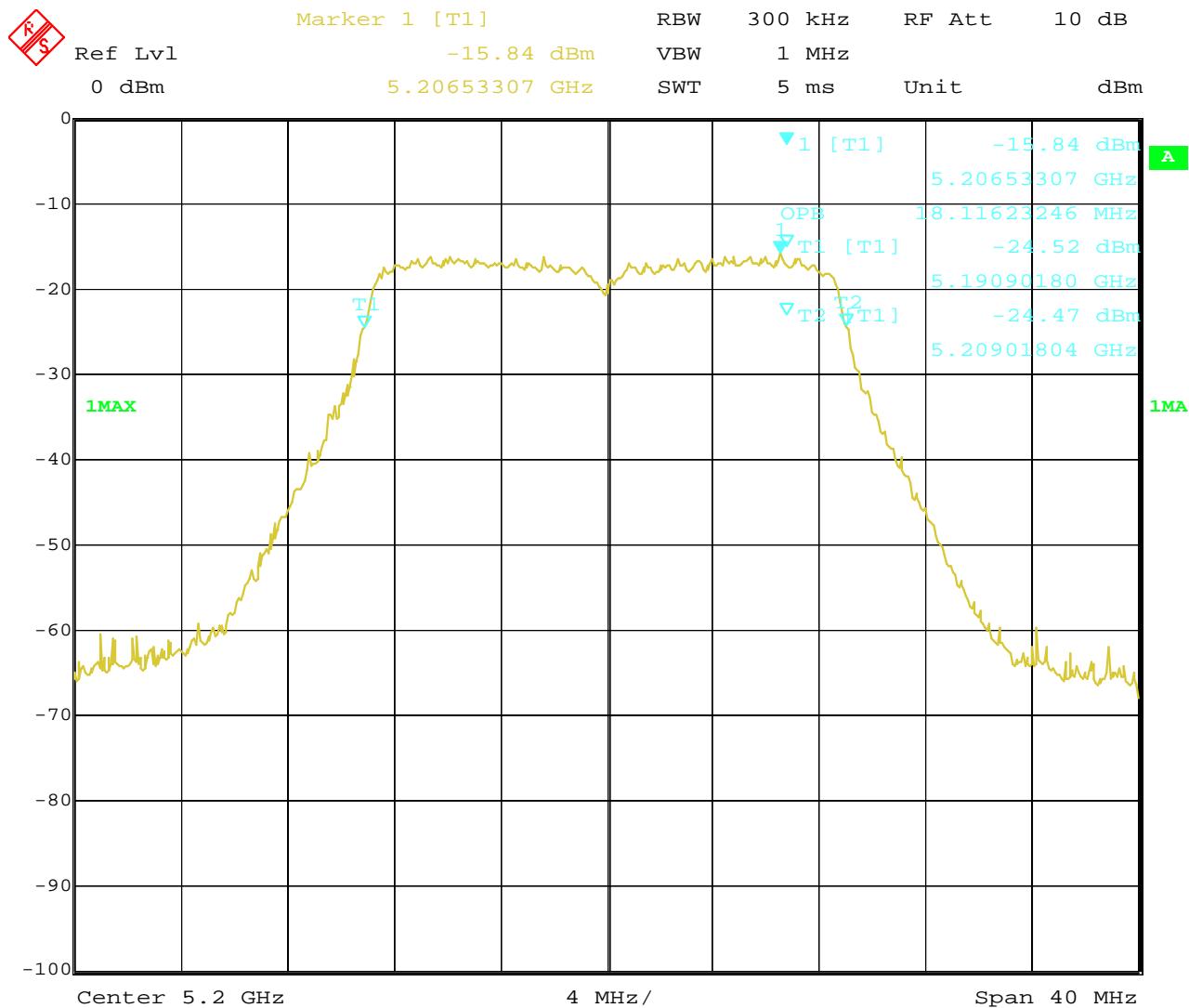
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Channel 40



Date: 13.AUG.2020 10:58:24

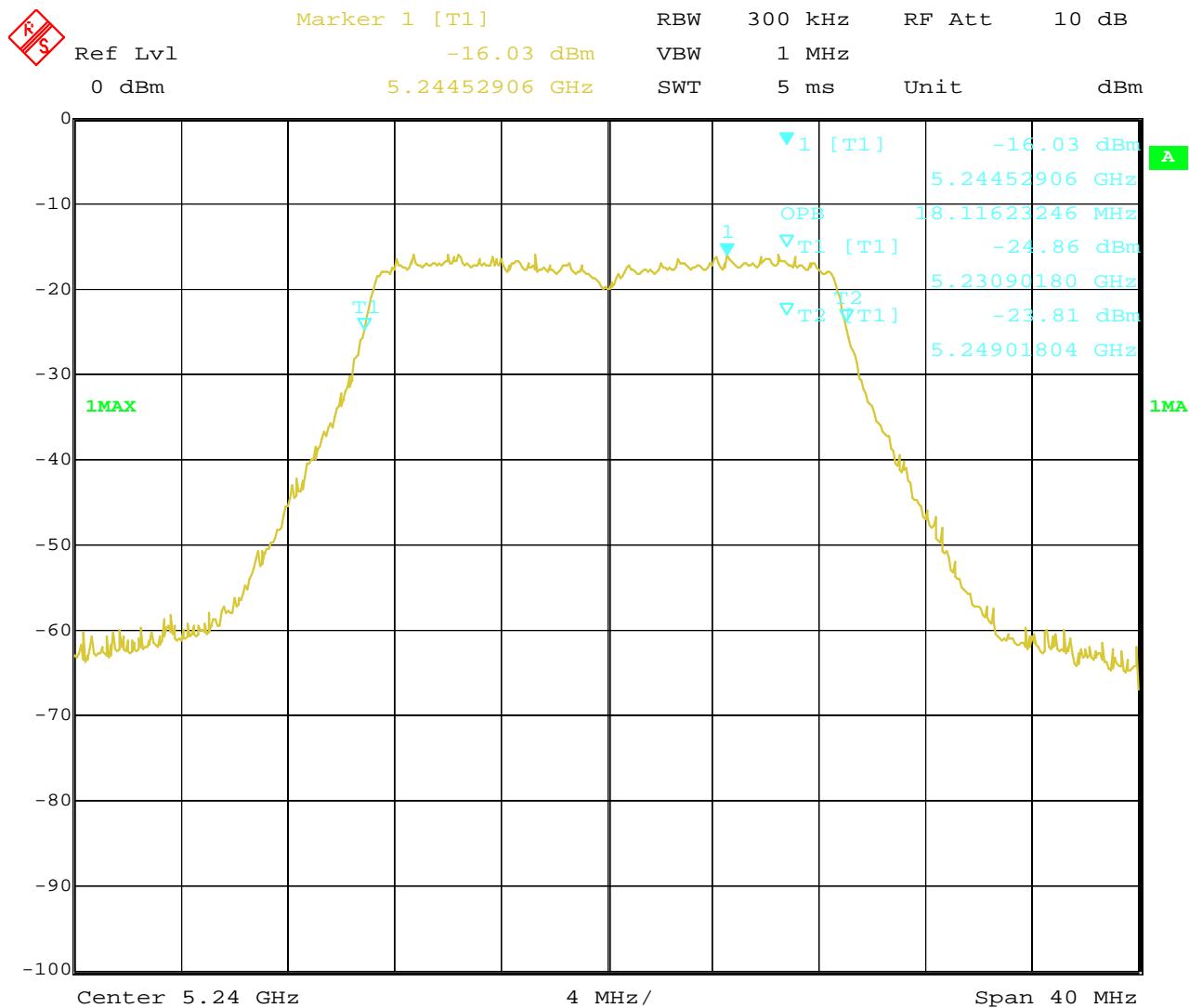
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Channel 48



Date: 13.AUG.2020 11:05:03

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EUT		4" HOT DESK		Model		ADD041
Mode		802.11n HT40		Input Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail	
26dB Bandwidth						
38	5190	mcs0	43.13	--	Pass	
46	5230	mcs0	43.45	--	Pass	
99% Bandwidth						
38	5190	mcs0	36.39	--	Pass	
46	5230	mcs0	36.55	--	Pass	

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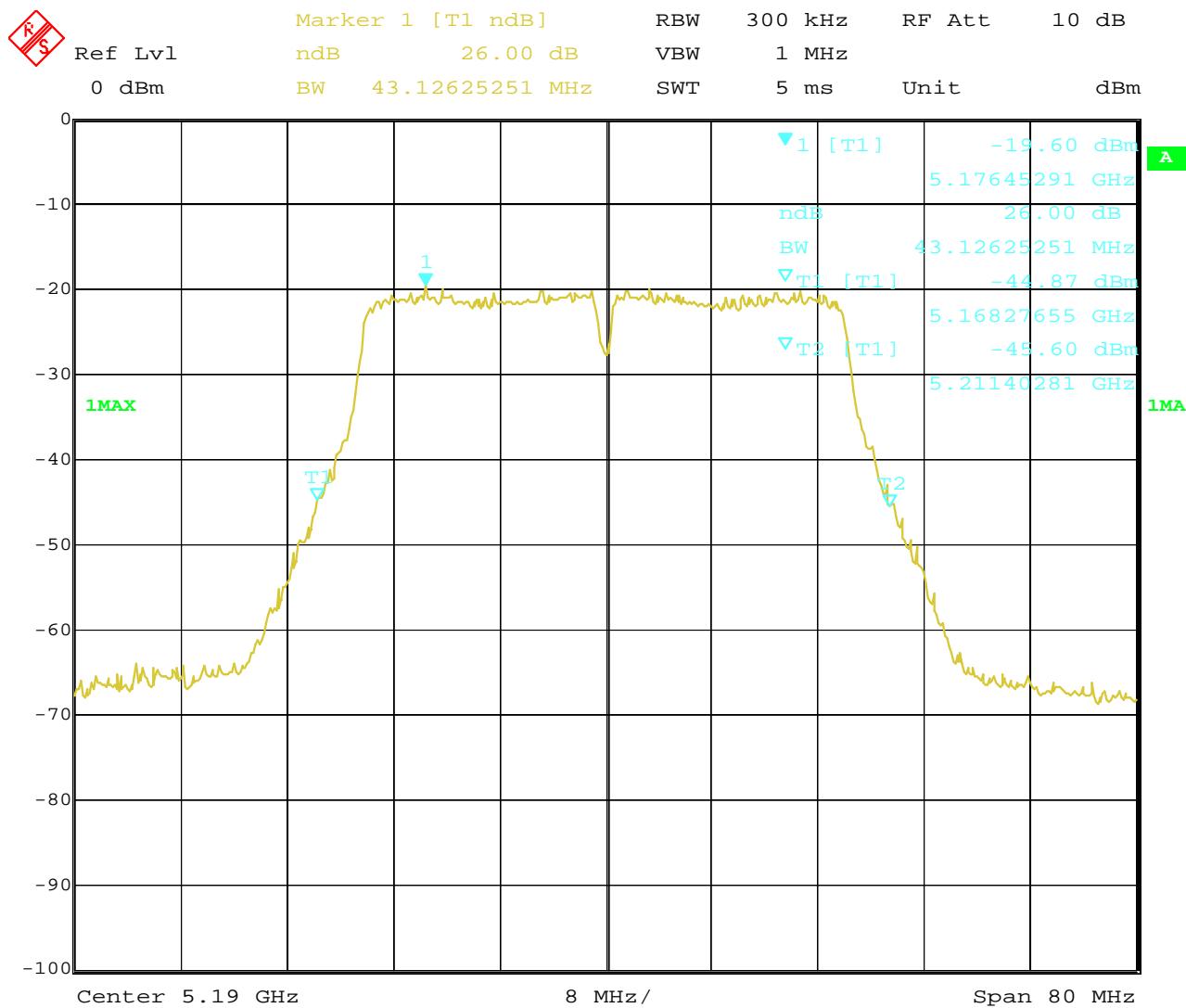
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Test Configure

26dB Bandwidth

Channel 38



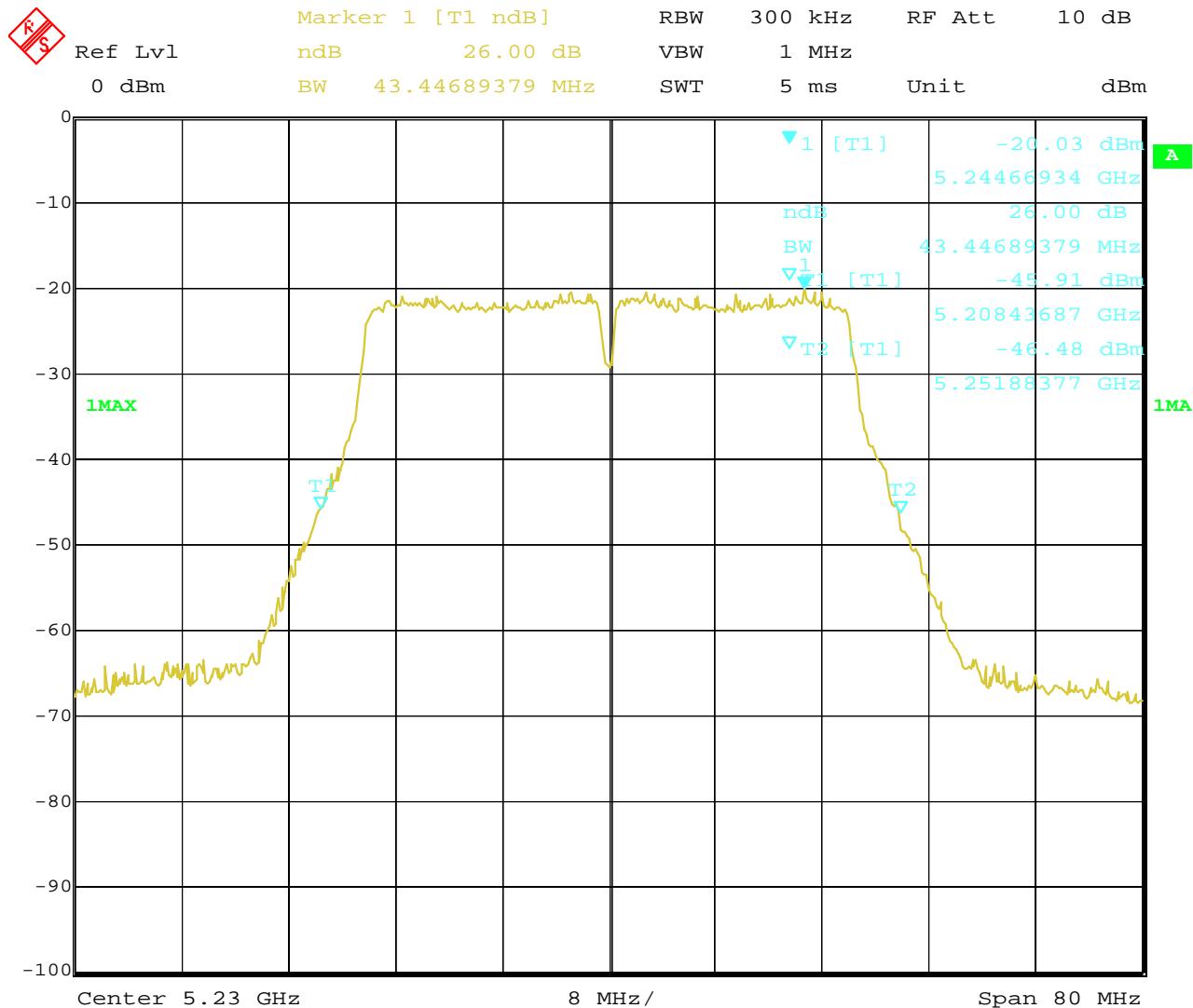
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Channel 46



Date: 13.AUG.2020 11:20:46

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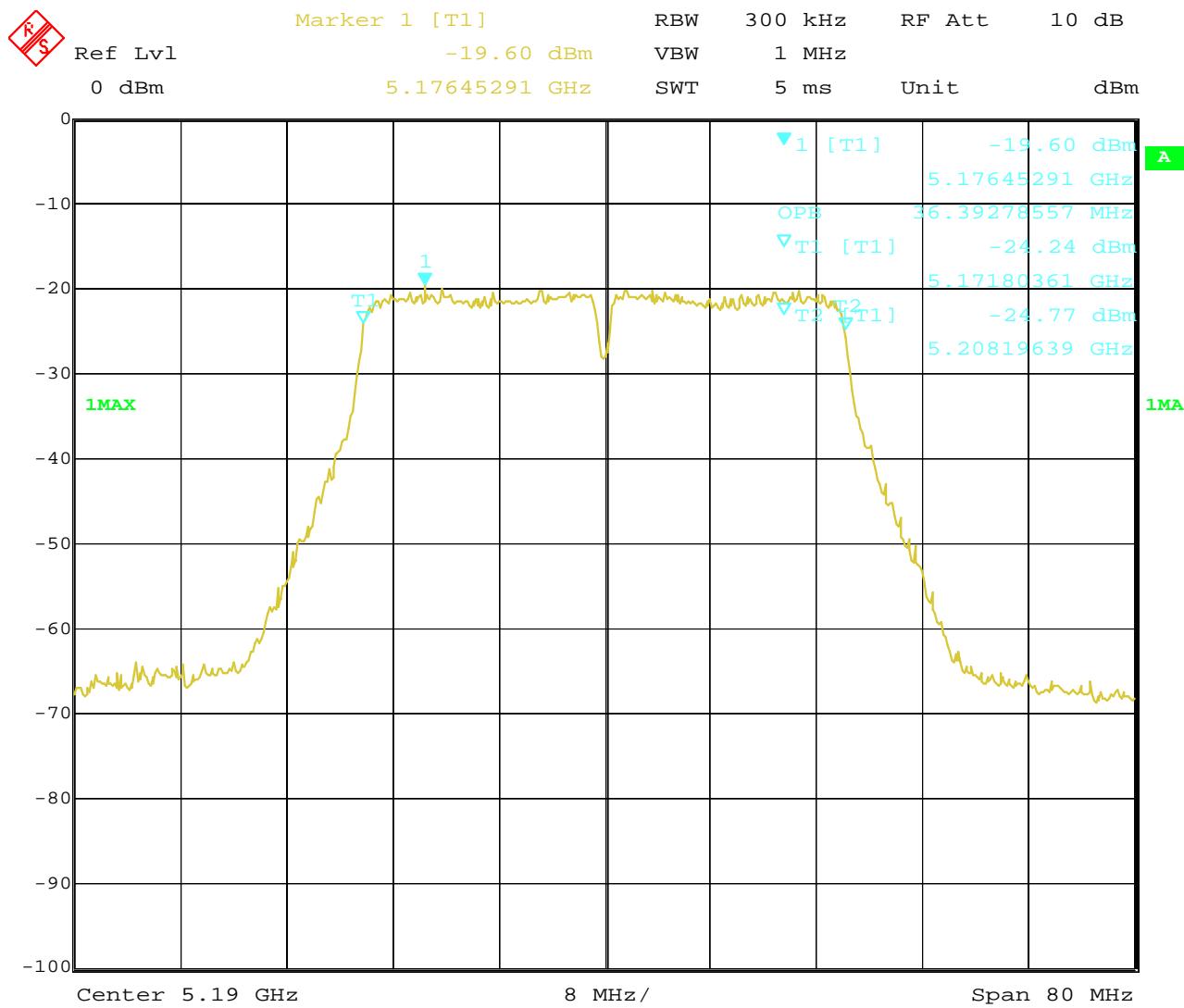
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Test Configure

99% Bandwidth

Channel 38



Date: 13.AUG.2020 11:18:43

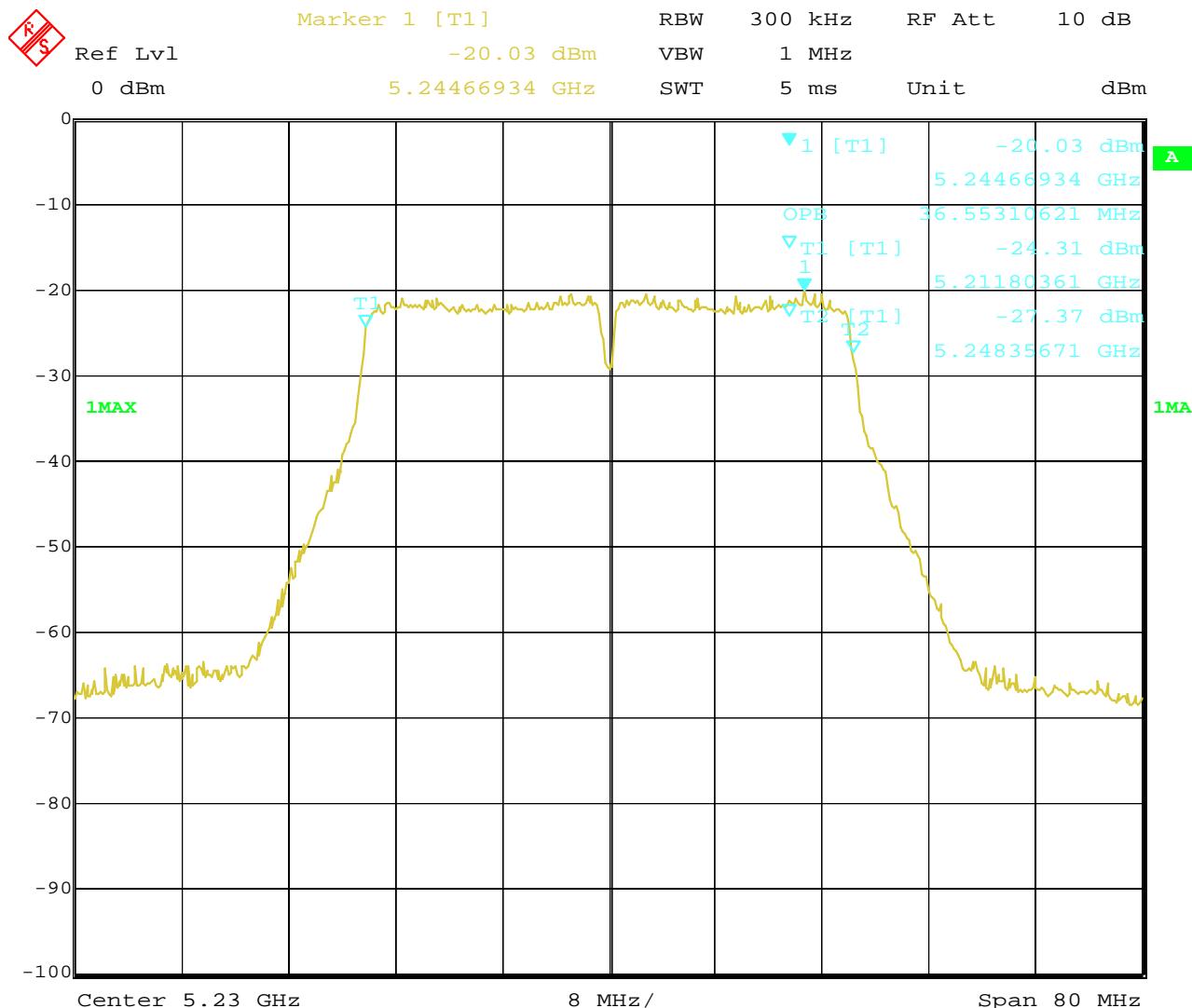
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Channel 46



Date: 13.AUG.2020 11:20:56

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EUT		4" HOT DESK		Model		ADD041
Mode		802.11ac VHT20		Input Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail	
26dB Bandwidth						
36	5180	mcs0	22.53	--	Pass	
40	5200	mcs0	22.61	--	Pass	
48	5240	mcs0	22.44	--	Pass	
99% Bandwidth						
36	5180	mcs0	18.12	--	Pass	
40	5200	mcs0	18.12	--	Pass	
48	5240	mcs0	18.12	--	Pass	

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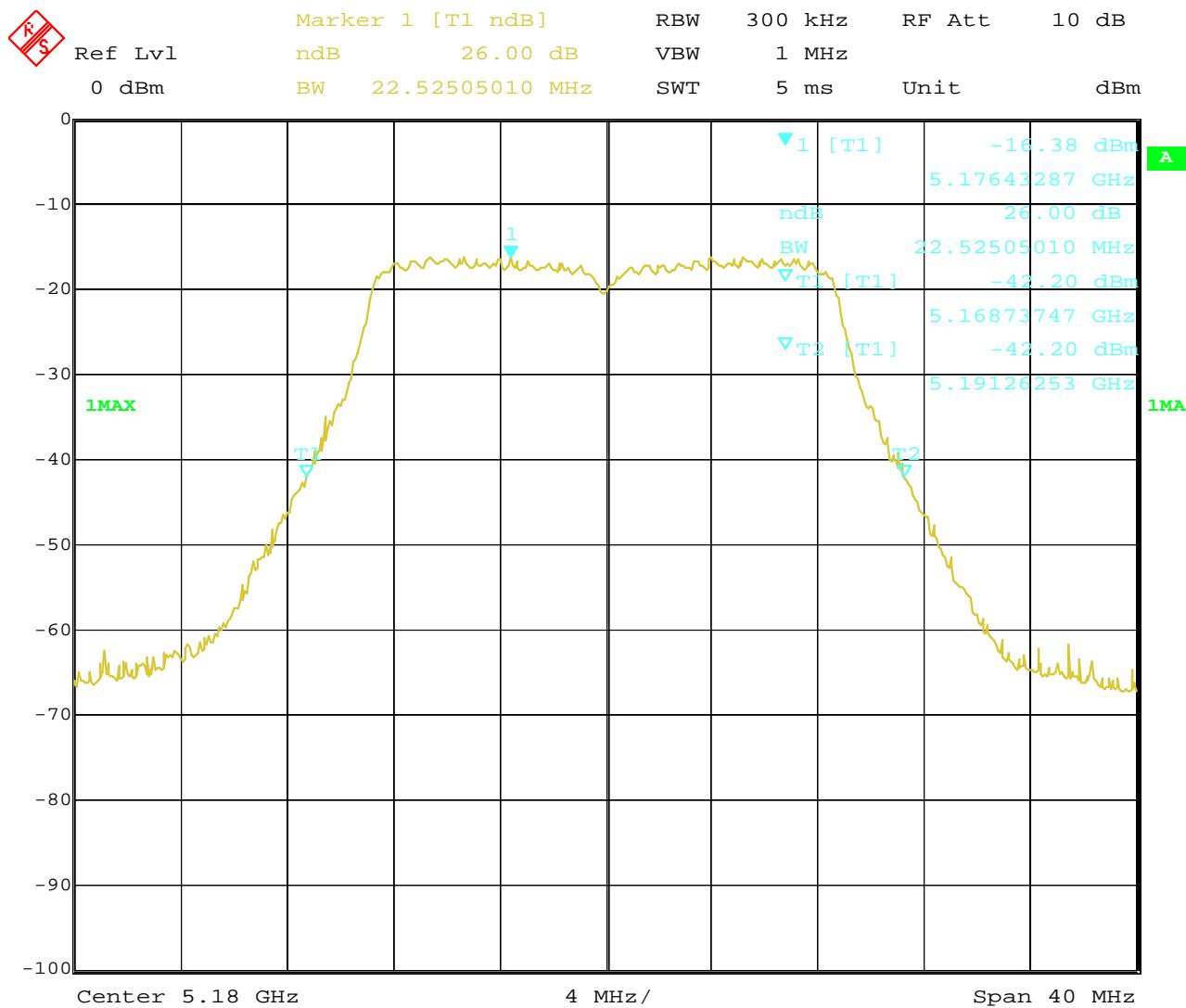
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Test Configure

26dB Bandwidth

Channel 36



Date: 13.AUG.2020 11:14:45

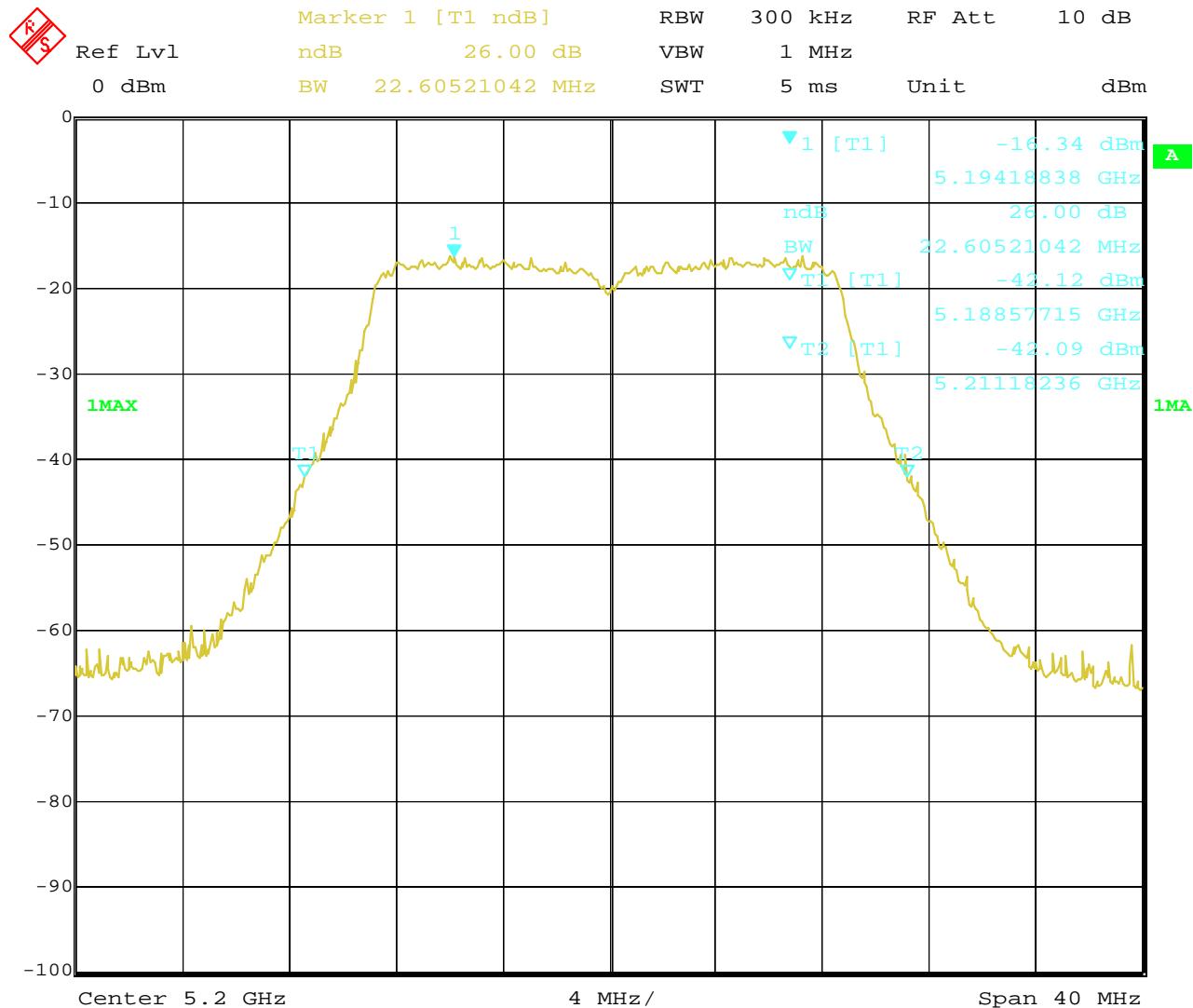
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Channel 40



Date: 13.AUG.2020 11:13:04

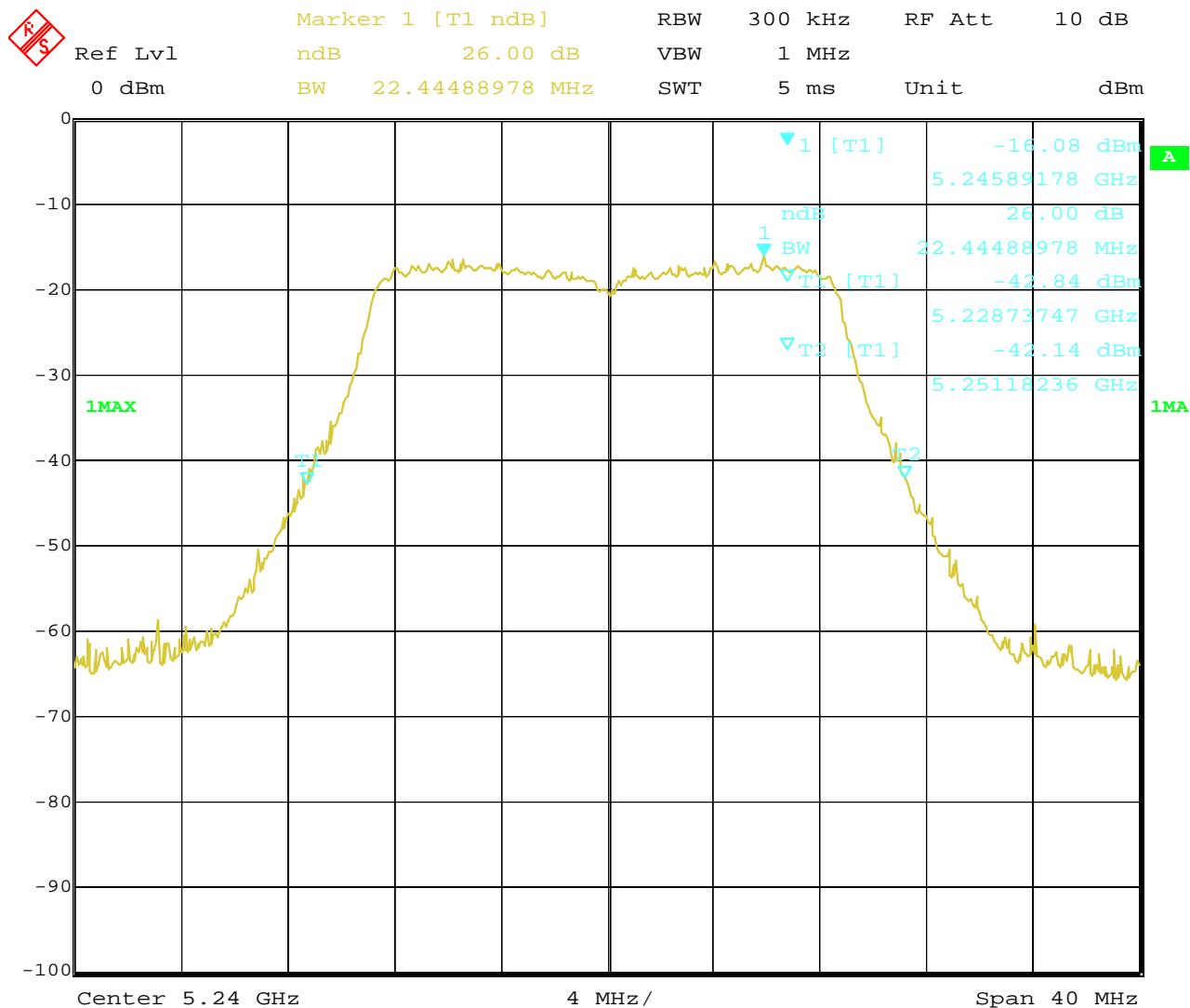
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Channel 48



Date: 13.AUG.2020 11:10:27

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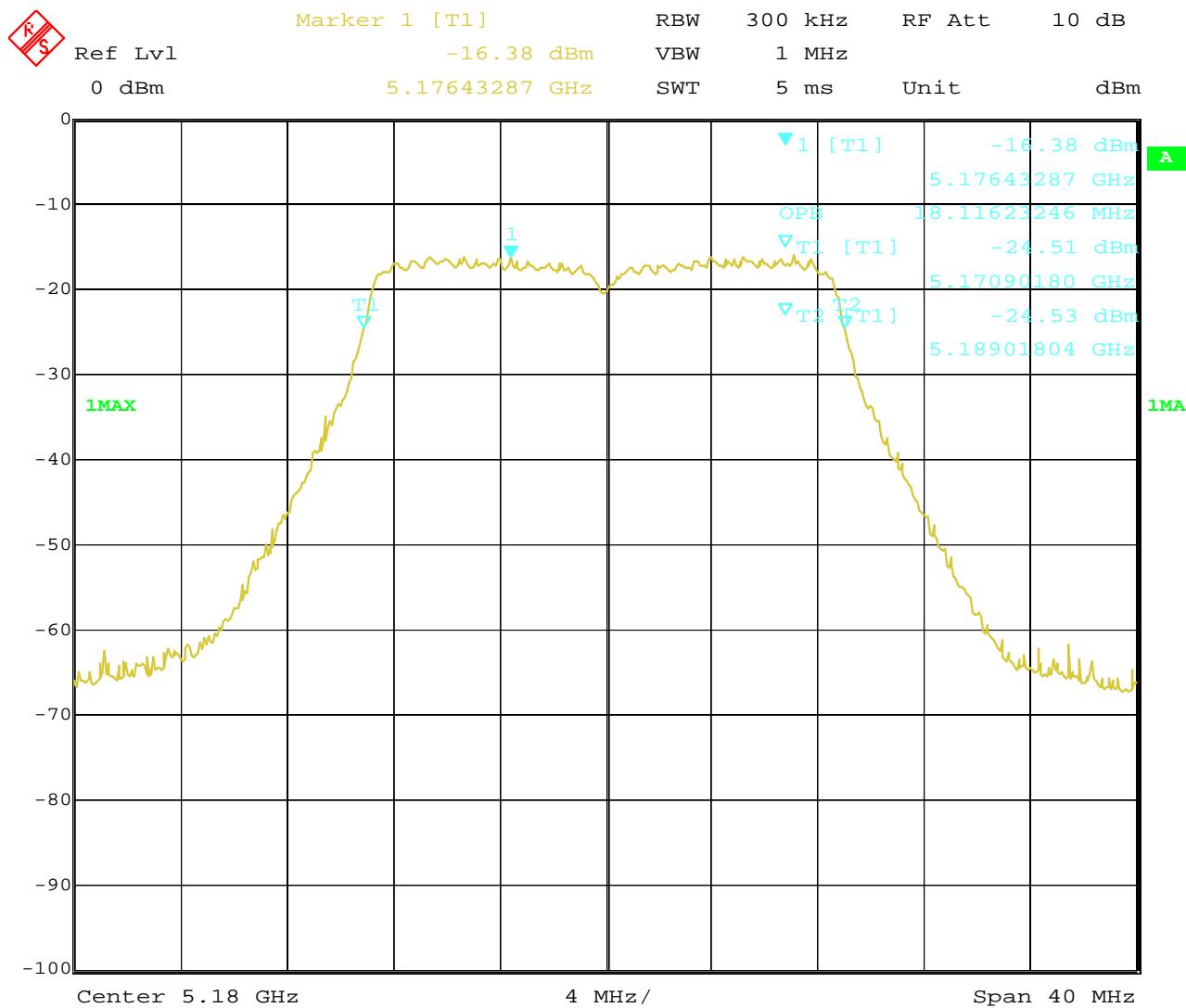
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Test Configure

99% Bandwidth

Channel 36



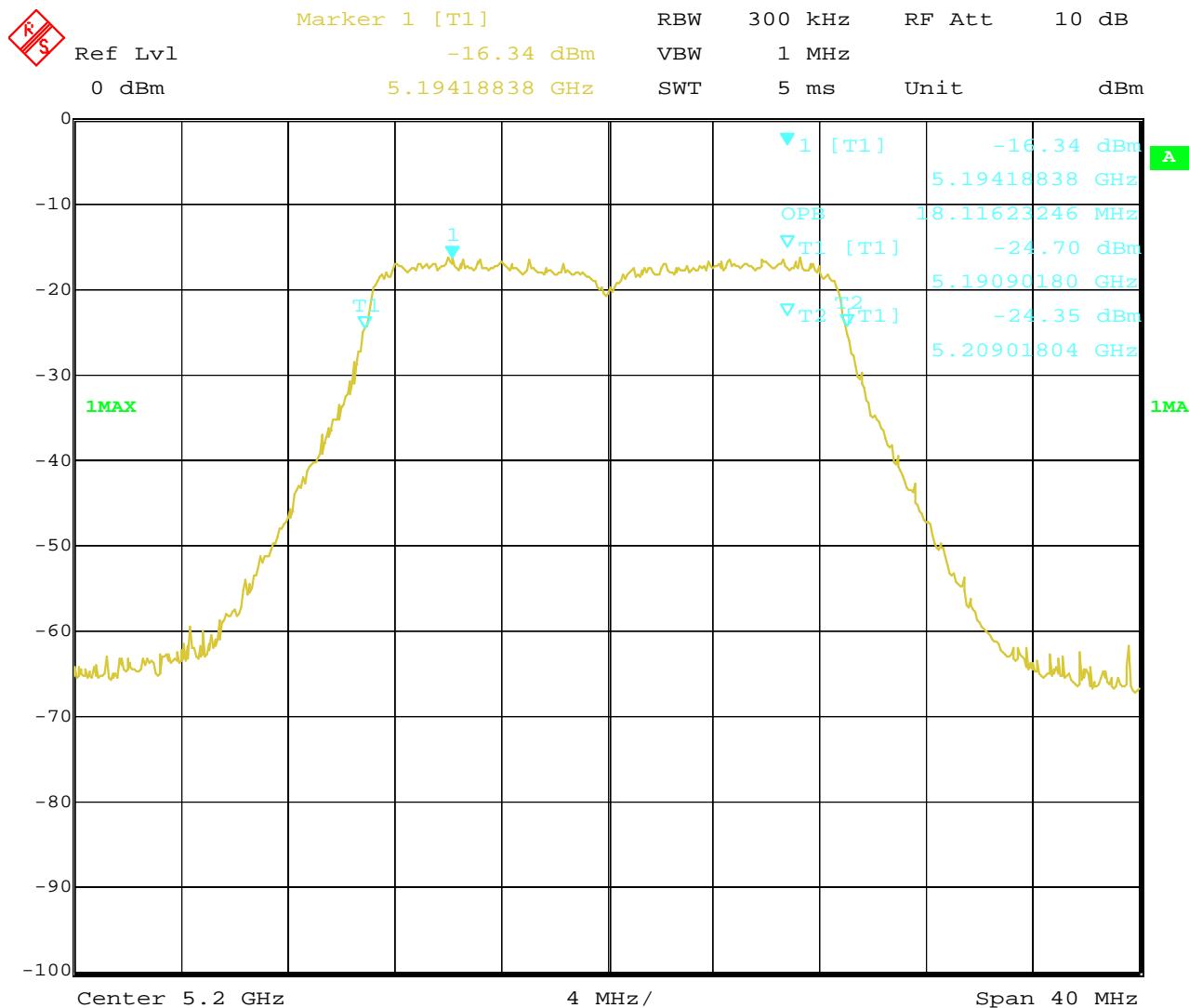
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Channel 40



Date: 13.AUG.2020 11:12:51

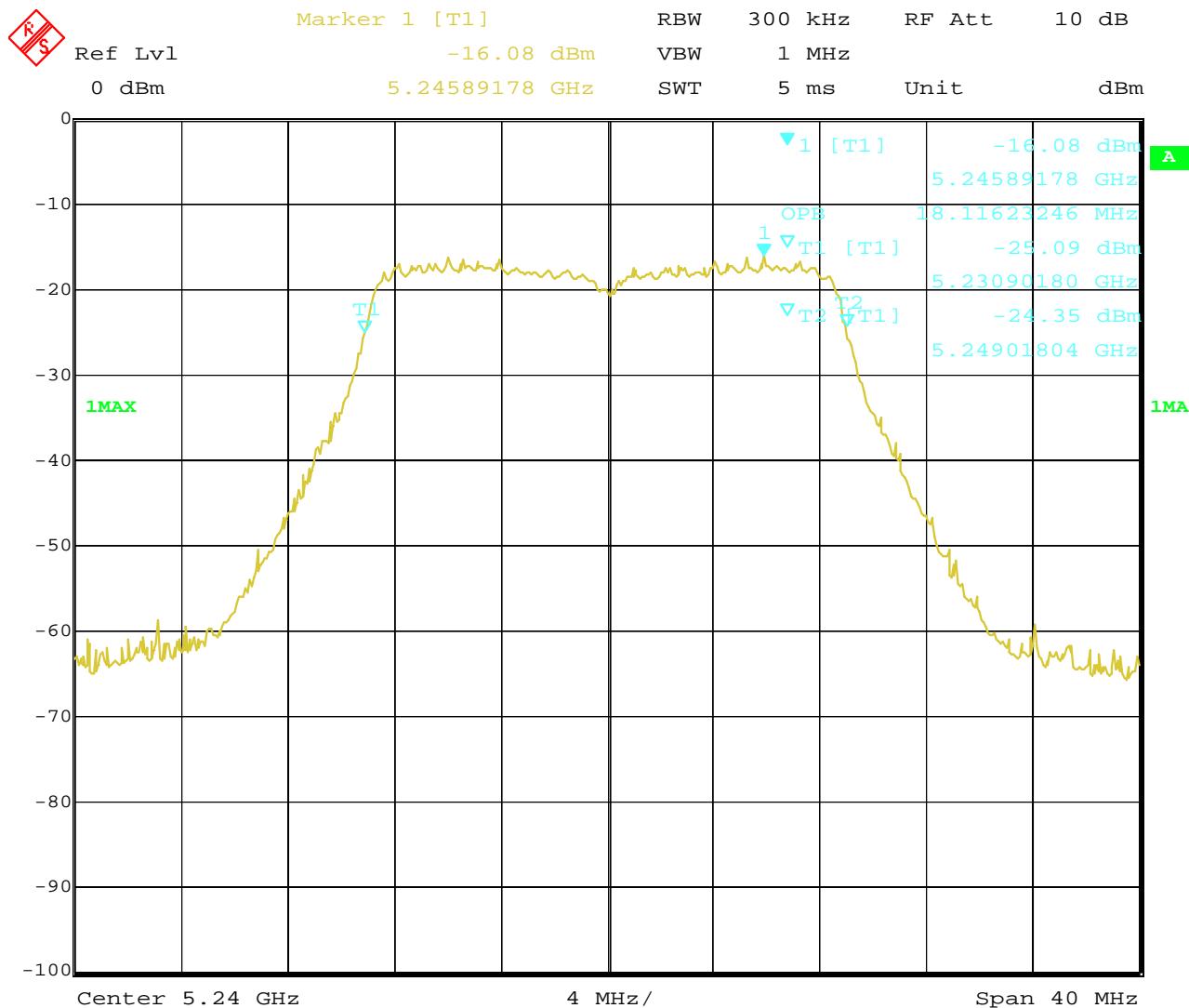
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Channel 48



Date: 13.AUG.2020 11:10:46

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EUT		4" HOT DESK		Model		ADD041
Mode		802.11ac VHT40		Input Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail	
26dB Bandwidth						
38	5190	mcs0	43.77	--	Pass	
46	5230	mcs0	43.29	--	Pass	
99% Bandwidth						
38	5190	mcs0	36.39	--	Pass	
46	5230	mcs0	36.39	--	Pass	

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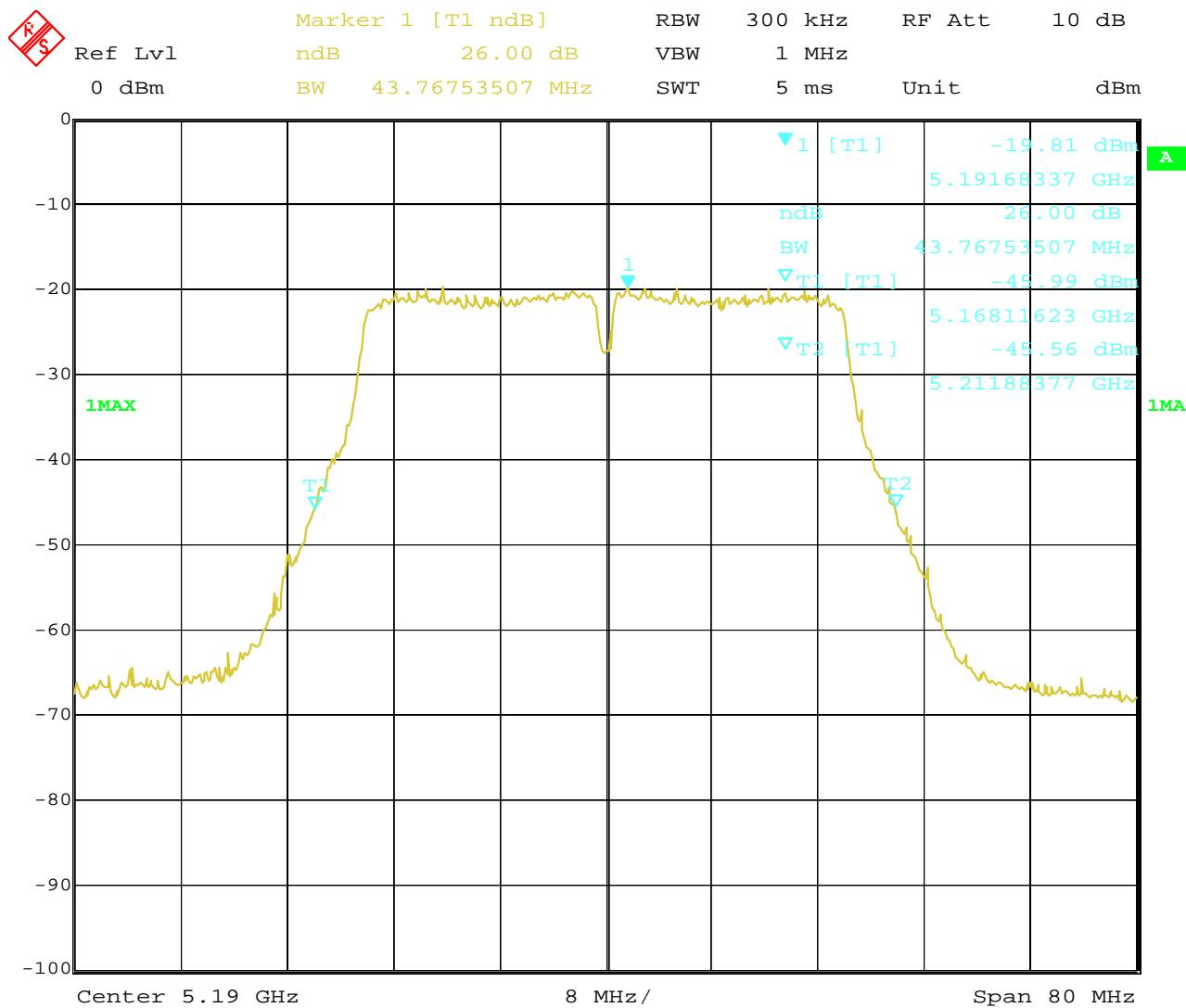
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Test Configure

26dB Bandwidth

Channel 38



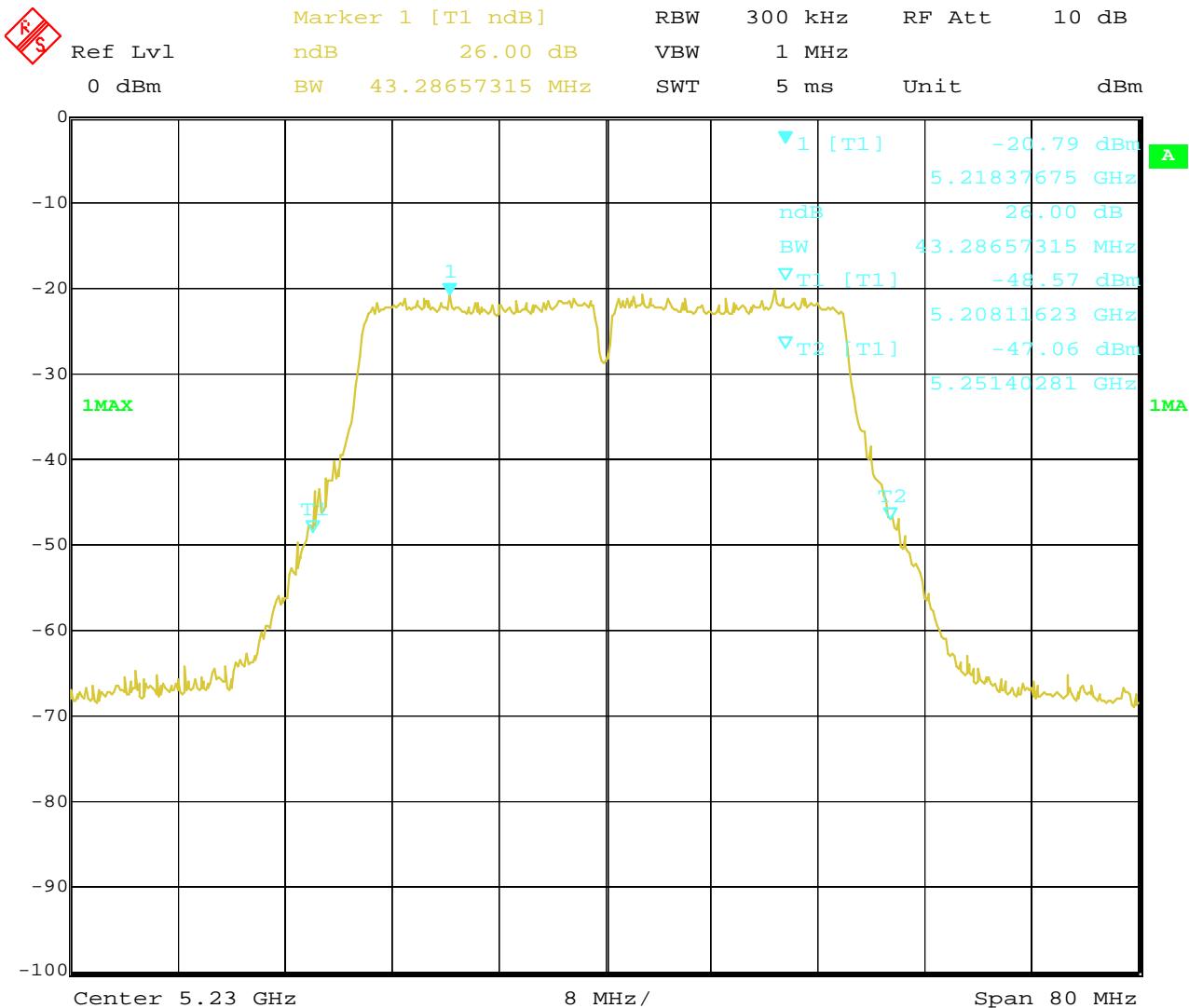
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Channel 46



Date: 13.AUG.2020 11:22:09

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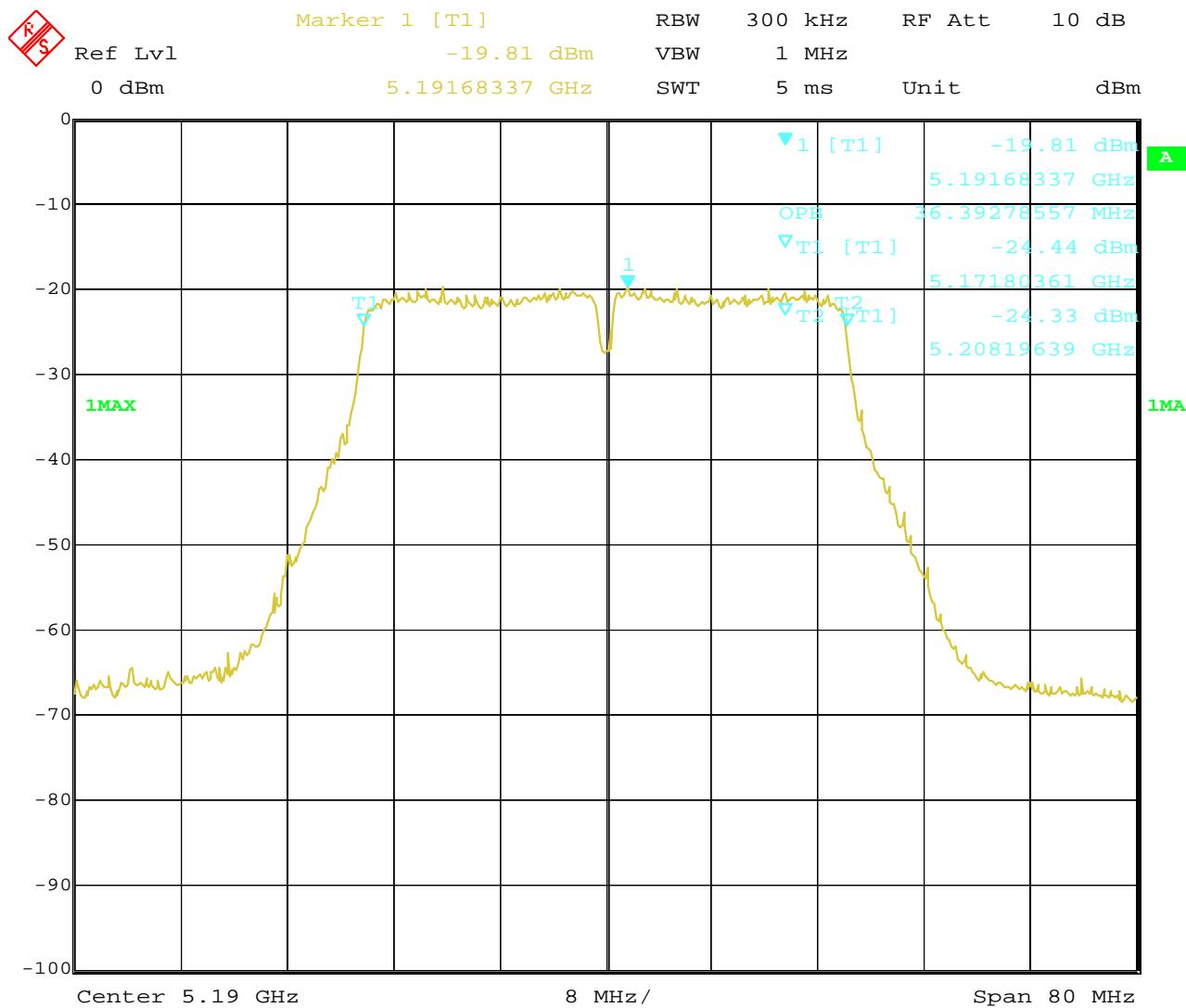
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Test Configure

99% Bandwidth

Channel 38



Date: 13.AUG.2020 11:24:56

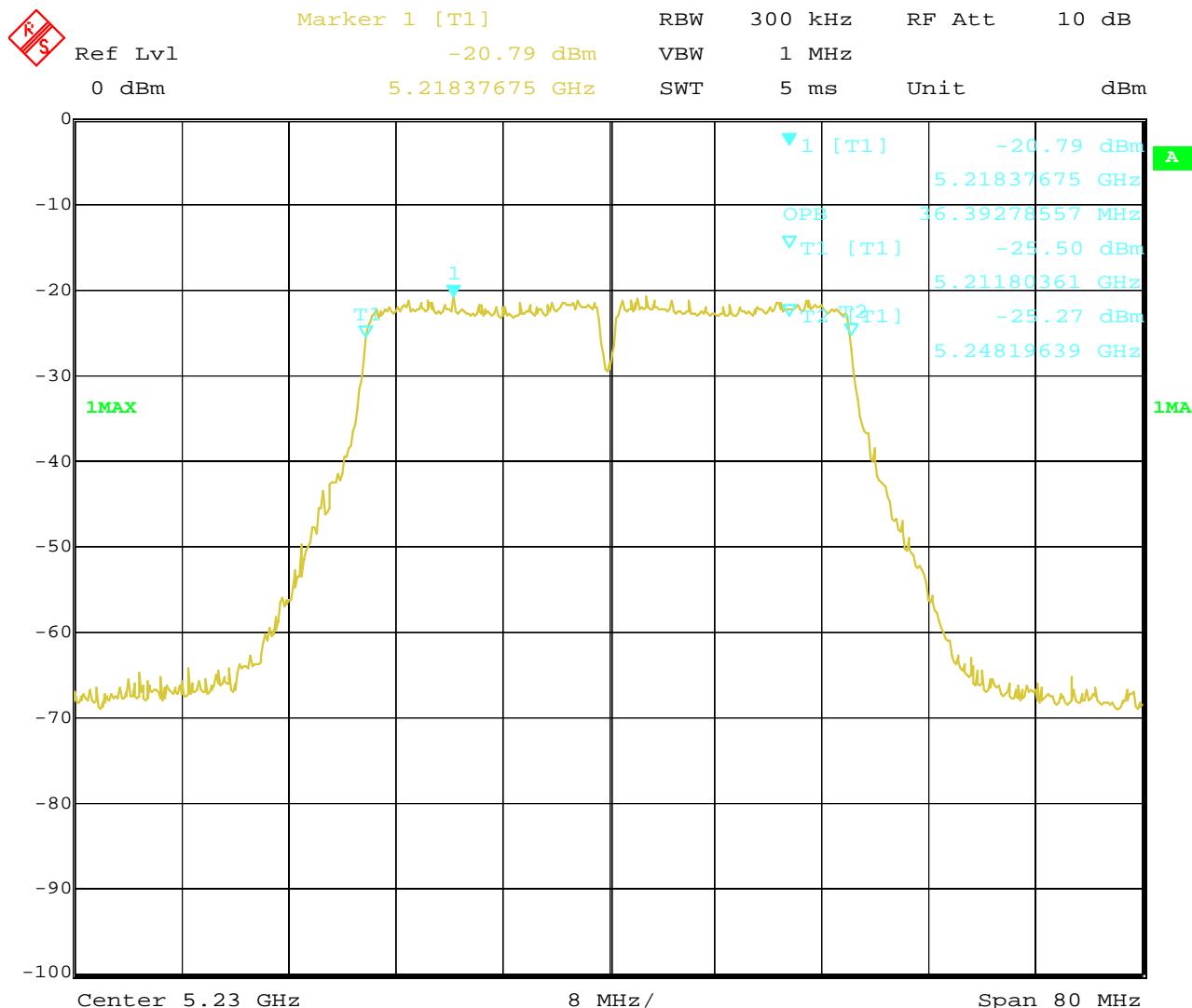
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Channel 46



Date: 13.AUG.2020 11:21:55

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EUT		4" HOT DESK		Model		ADD041			
Mode		802.11ac VHT80		Input Voltage		120V~			
Temperature		24 deg. C,		Humidity		56% RH			
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail				
26dB Bandwidth									
42	5210	23.9	80.32	--	Pass				
99% Bandwidth									
42	5210	23.9	75.27	--	Pass				

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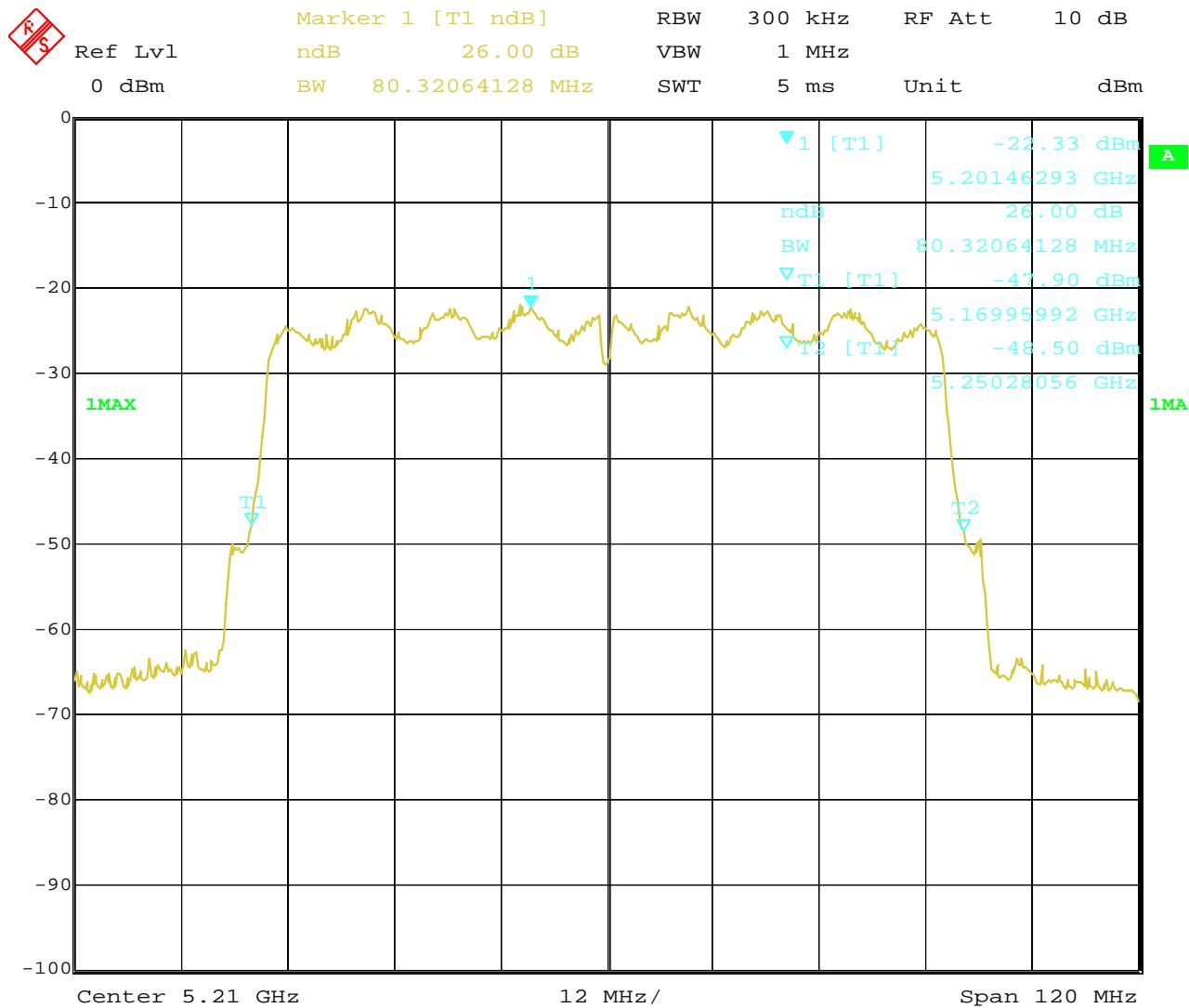
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Test Configure

26dB Bandwidth

Channel 42



Date: 13.AUG.2020 11:27:51

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

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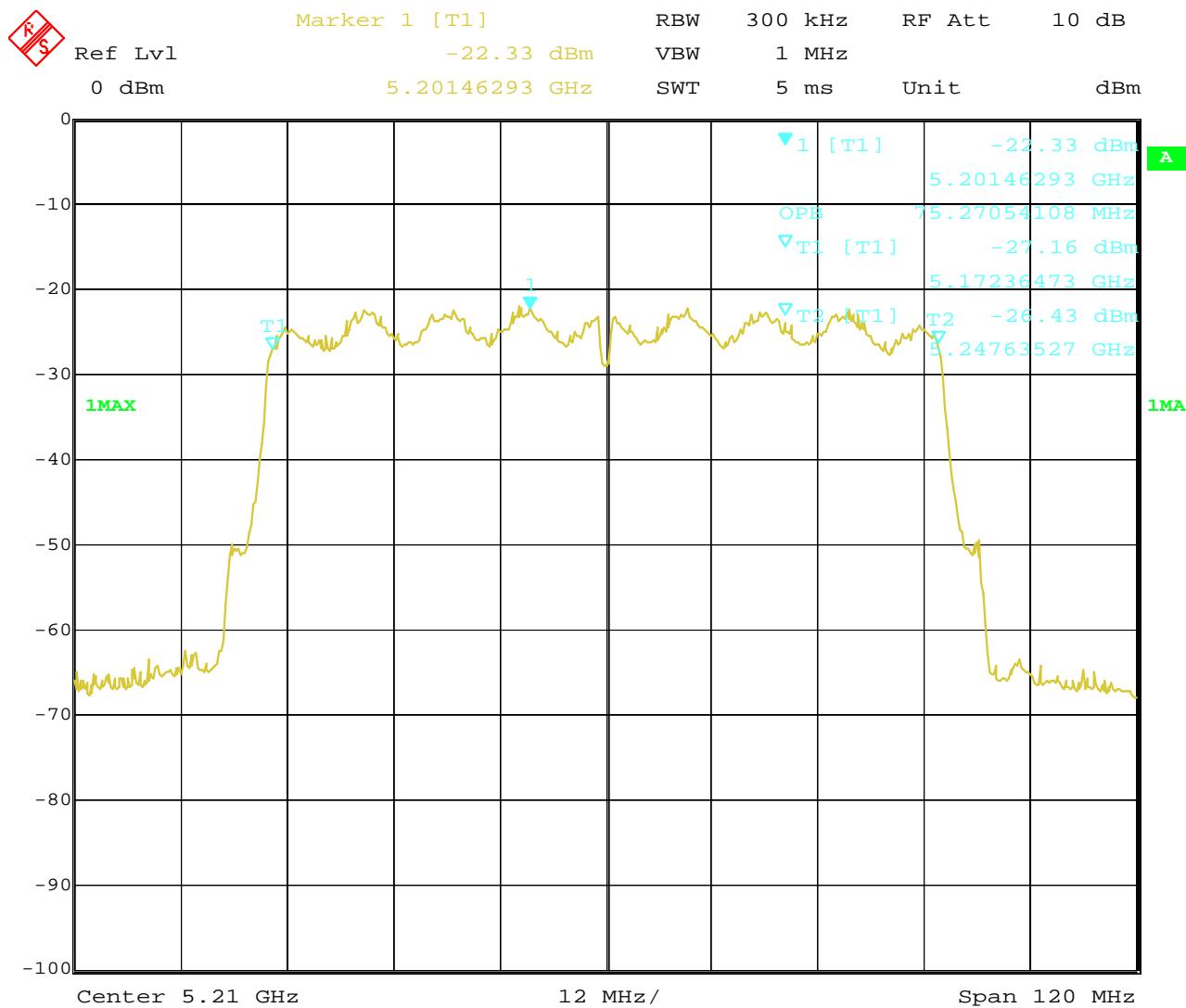
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Test Configure

99% Bandwidth

Channel 42



Date: 13.AUG.2020 11:27:34

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

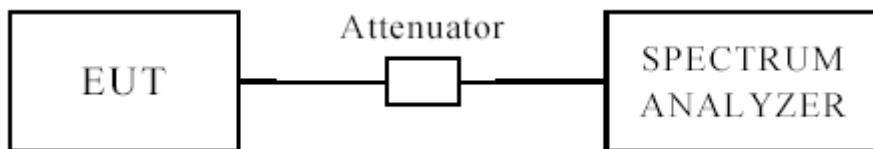
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8.0 Peak Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category	Limit
U-NII-2A		For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B^*$, dBm, whichever is less
	✓	For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B^*$, dBm, whichever power is less

Note: 1. Where B is the 99% emission bandwidth in MHz.

2. EIRP was measured, EIRP=AV Power +Antenna Gain

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

2. The average power was measured

8.3 Test Procedure

The average 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		4" HOT DESK	Model	ADD041	
Mode		802.11a	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-5.32		22.38	Pass
40	5200	-5.16		22.38	Pass
48	5240	-5.28		22.38	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT		4" HOT DESK	Model	ADD041	
Mode		802.11n HT20	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-5.69		22.38	Pass
40	5200	-5.80		22.38	Pass
48	5240	-5.88		22.38	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11n HT40	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power (dBm)		Limit (dBm)	Pass/ Fail
38	5190	-6.73		23.01	Pass
46	5230	-6.92		23.01	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT20	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Total Power (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-6.15		22.58	Pass
40	5200	-5.97		22.58	Pass
48	5240	-5.85		22.58	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT40	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Total Power (dBm)			Limit (dBm)
38	5190	-6.69			23.01
46	5230	-6.82			23.01

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT80	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Total Power (dBm)			Limit (dBm)
42	5210	-7.56			23.01

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

2. The result basic equation calculation as follow:

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

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	Limit
U-NII-1	10dBm/MHz
U-NII-2A	11dBm/MHz
U-NII-2C	11dBm/MHz
U-NII-3	30dBm/500kHz

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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9.4 Test Result

EUT		4" HOT DESK	Model	ADD041	
Mode		802.11a 6Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-9.77		10	Pass
40	5200	-10.16		10	Pass
48	5240	-10.57		10	Pass

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

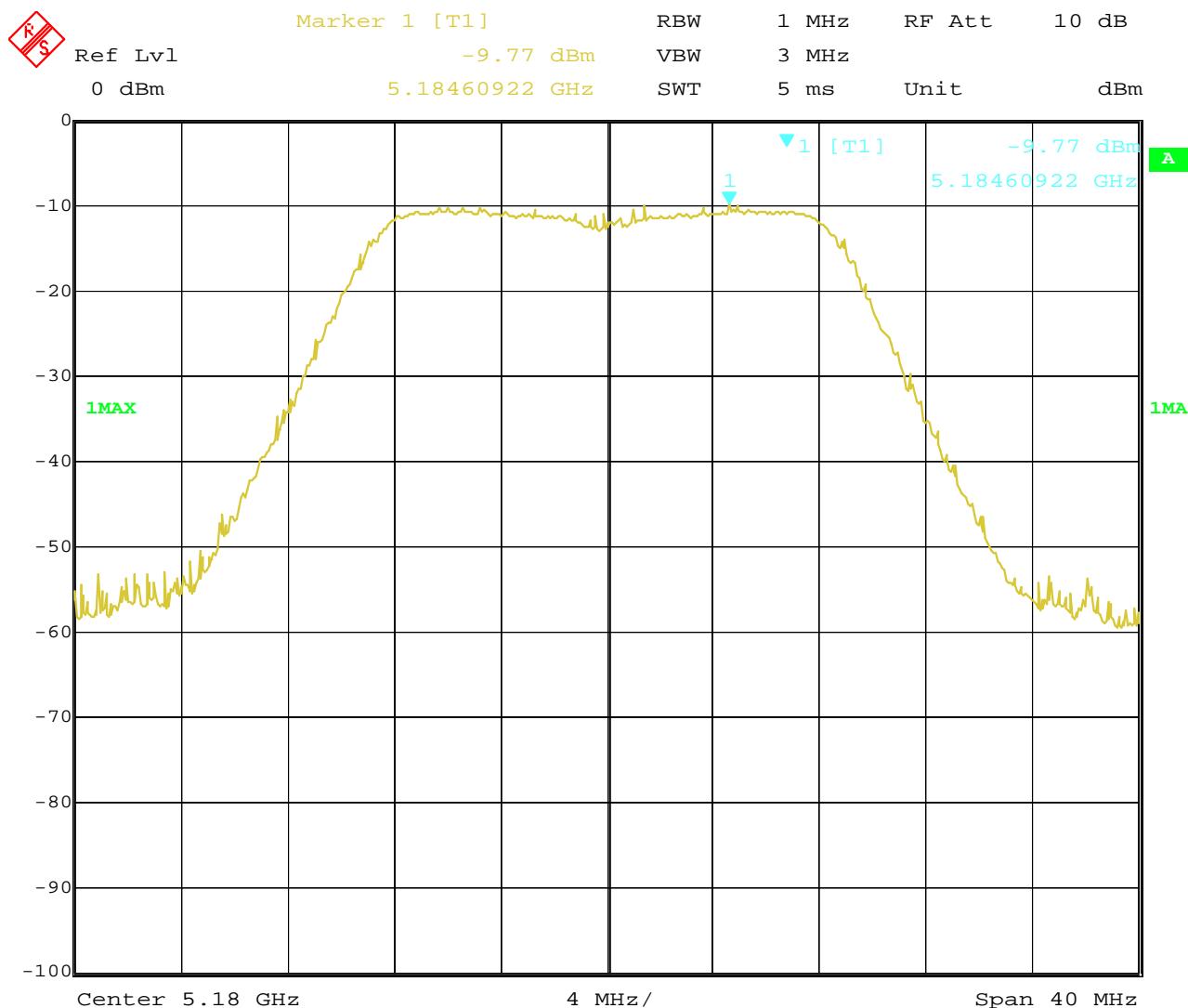
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9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



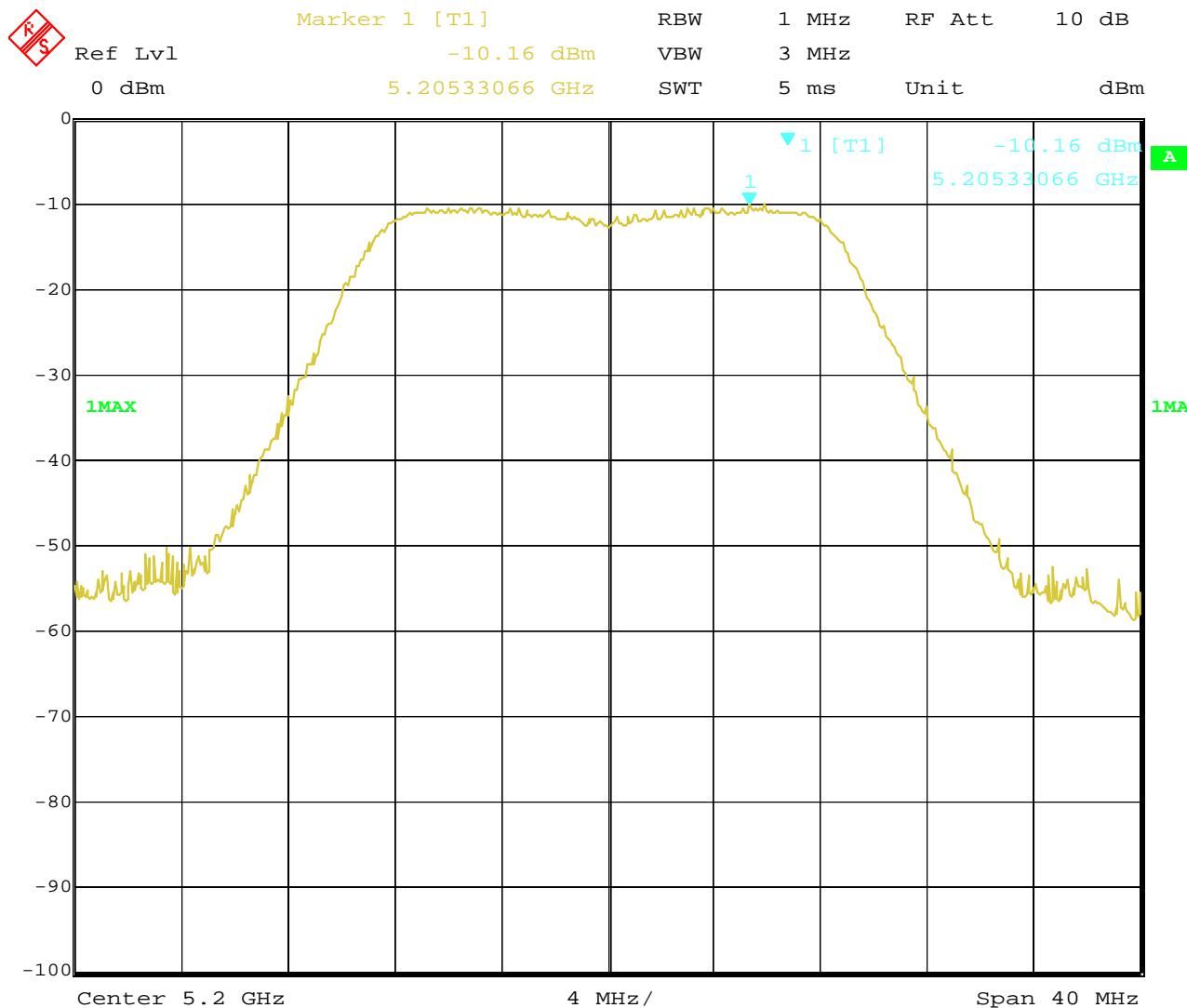
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2.802.11a at 6Mbps of CH40



Date: 13.AUG.2020 13:29:22

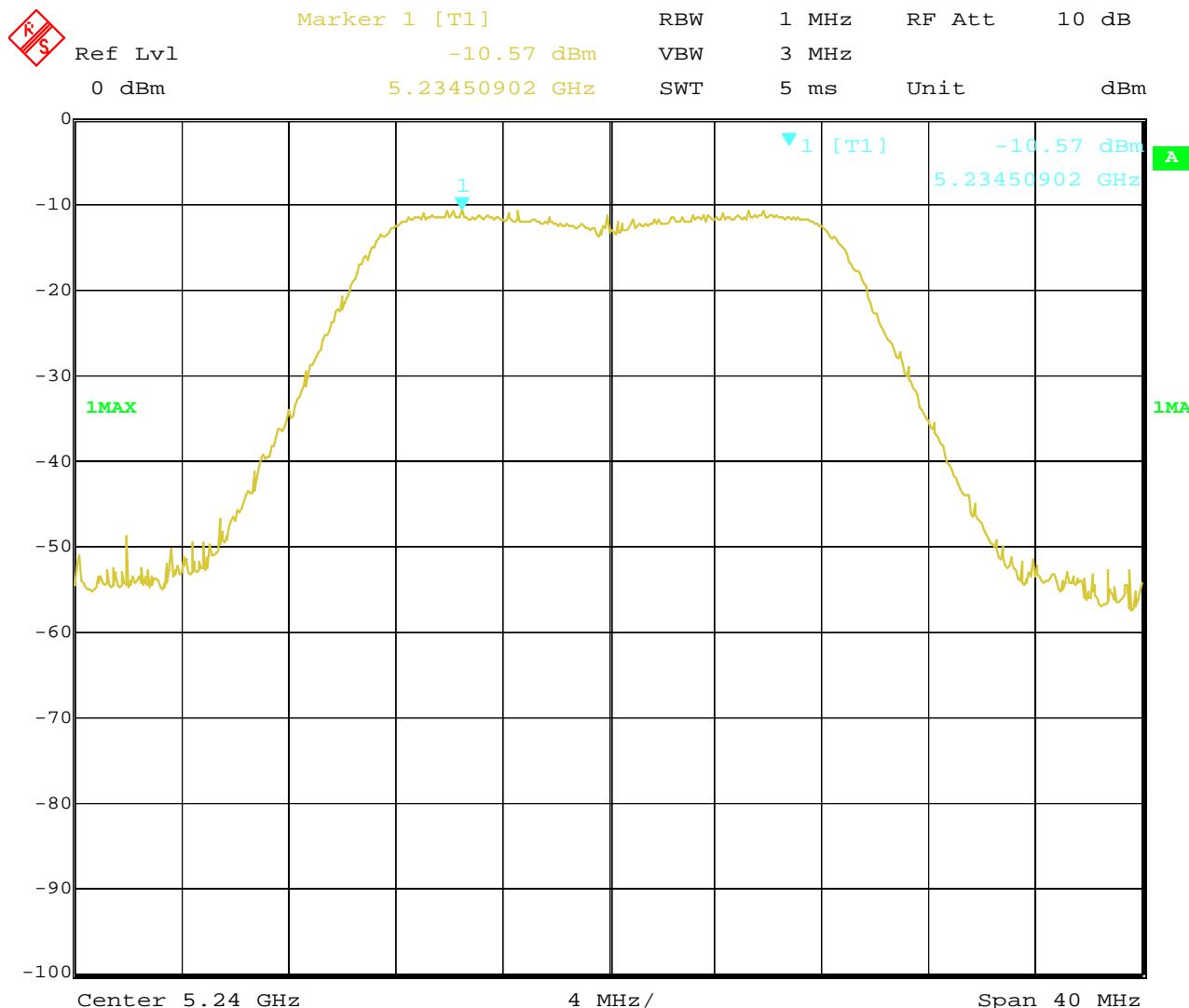
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3.802.11a at 6Mbps of CH48



Date: 13.AUG.2020 13:33:04

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11n HT20 mcs0	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-10.08		10	Pass
40	5200	-10.04		10	Pass
48	5240	-10.12		10	Pass

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

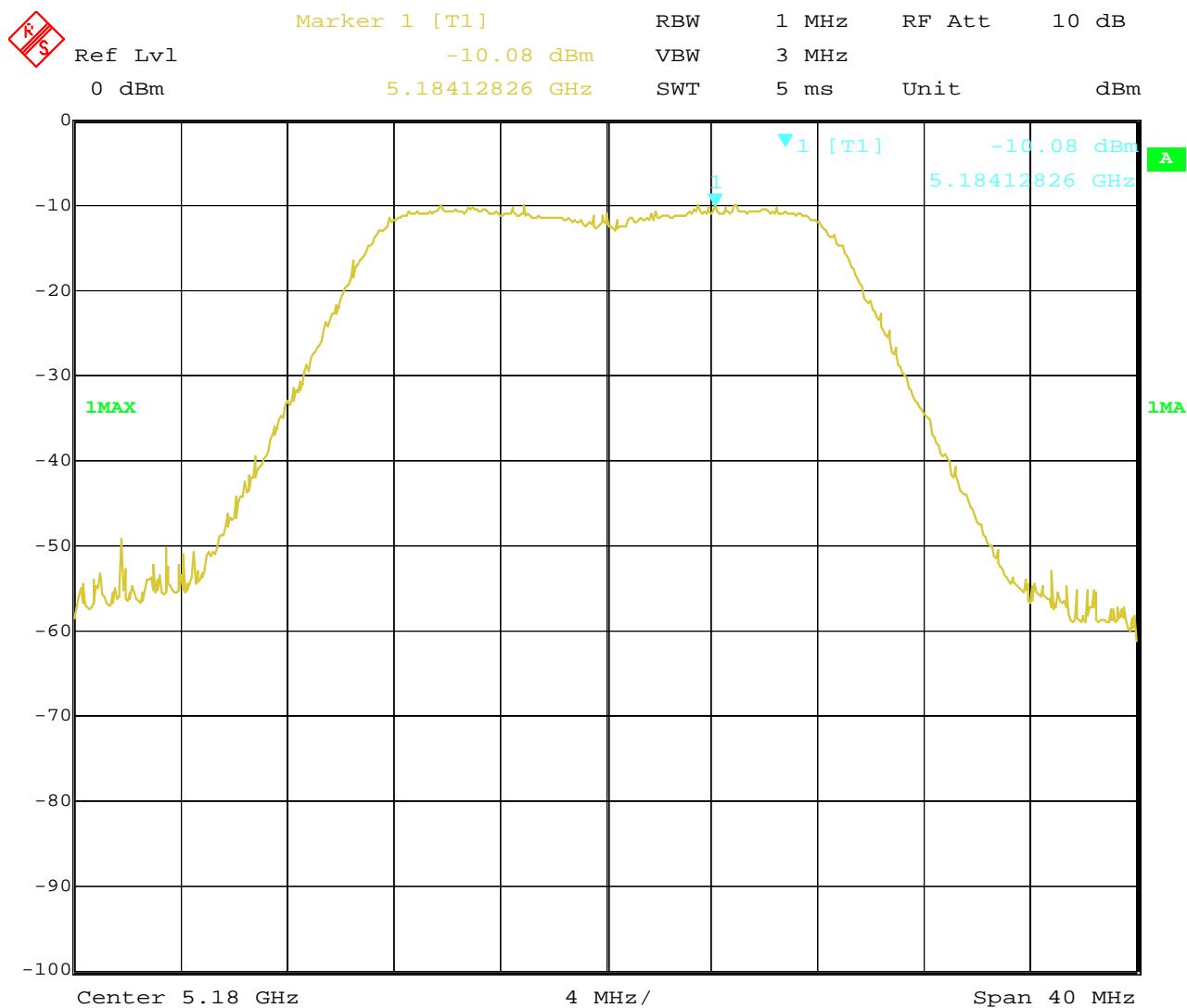
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Test Plots

1.802.11n at mcs0 of CH36



Date: 13.AUG.2020 13:44:23

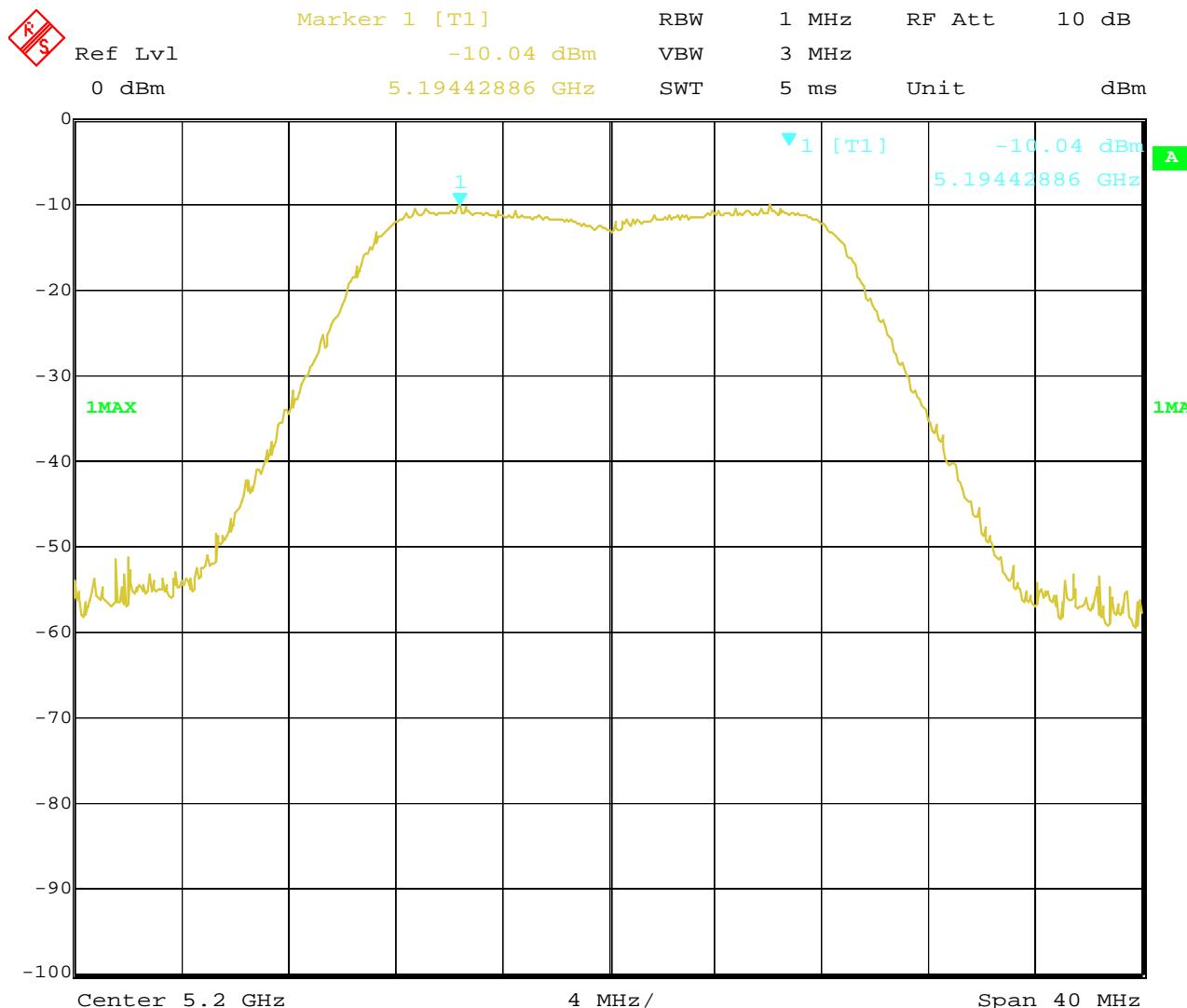
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2.802.11n at mcs0 of CH40



Date: 13.AUG.2020 13:40:32

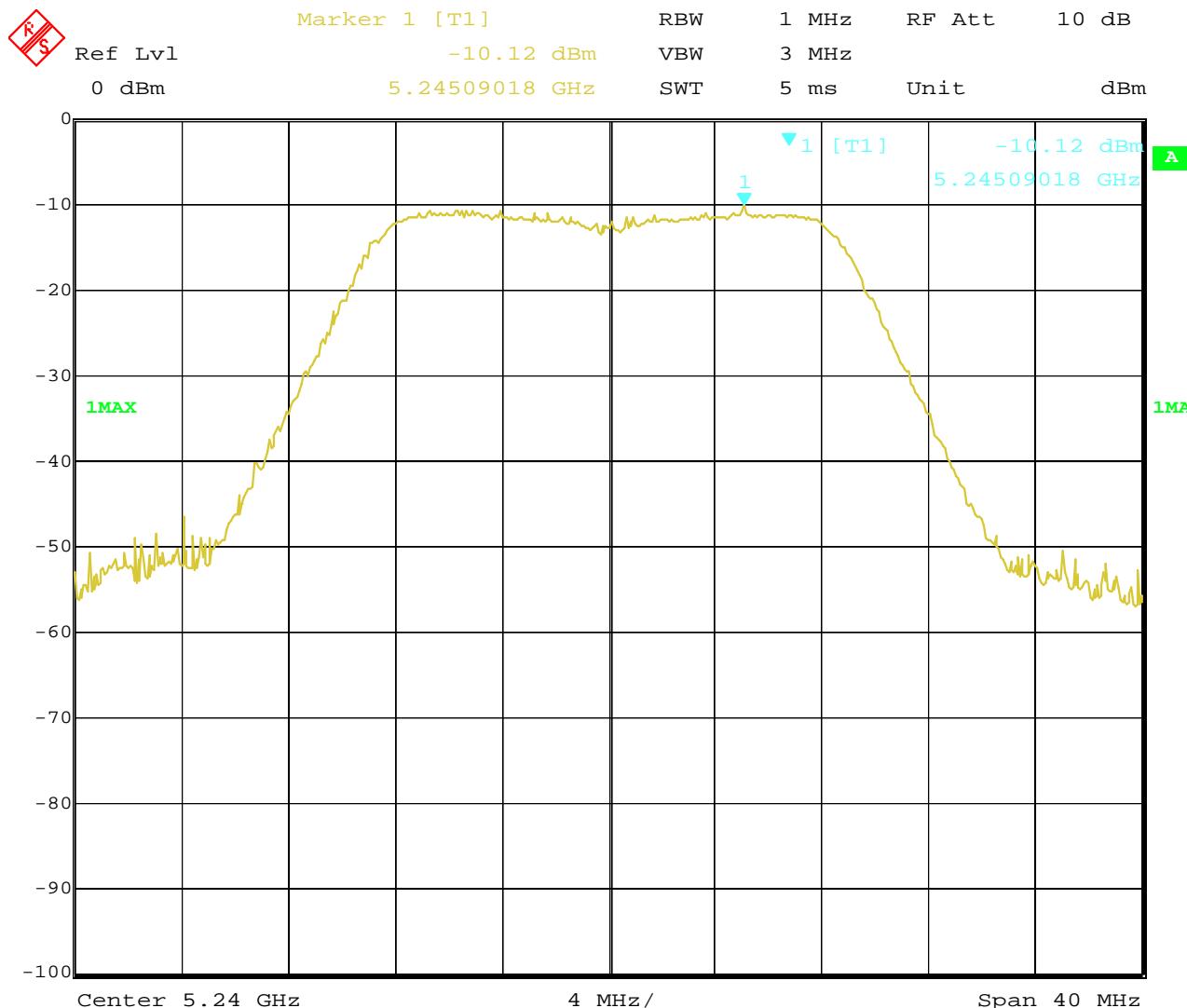
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3.802.11n at mcs0 of CH48



Date: 13.AUG.2020 13:38:25

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11n HT40 mcs0	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Pass/ Fail
38	5190	-13.67		10	Pass
46	5230	-14.13		10	Pass

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

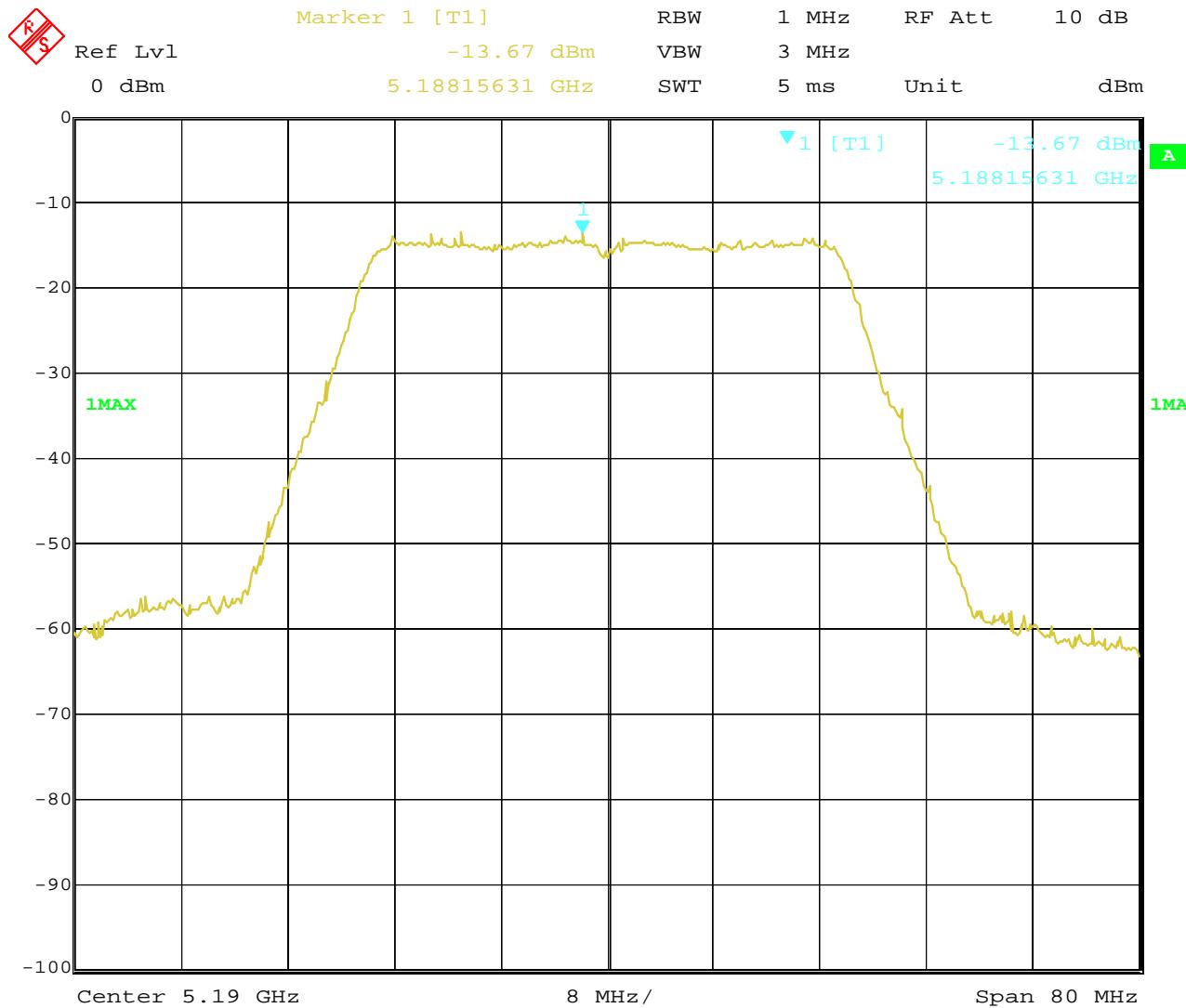
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Test Plots

1.802.11n HT40 at mcs0 of CH38



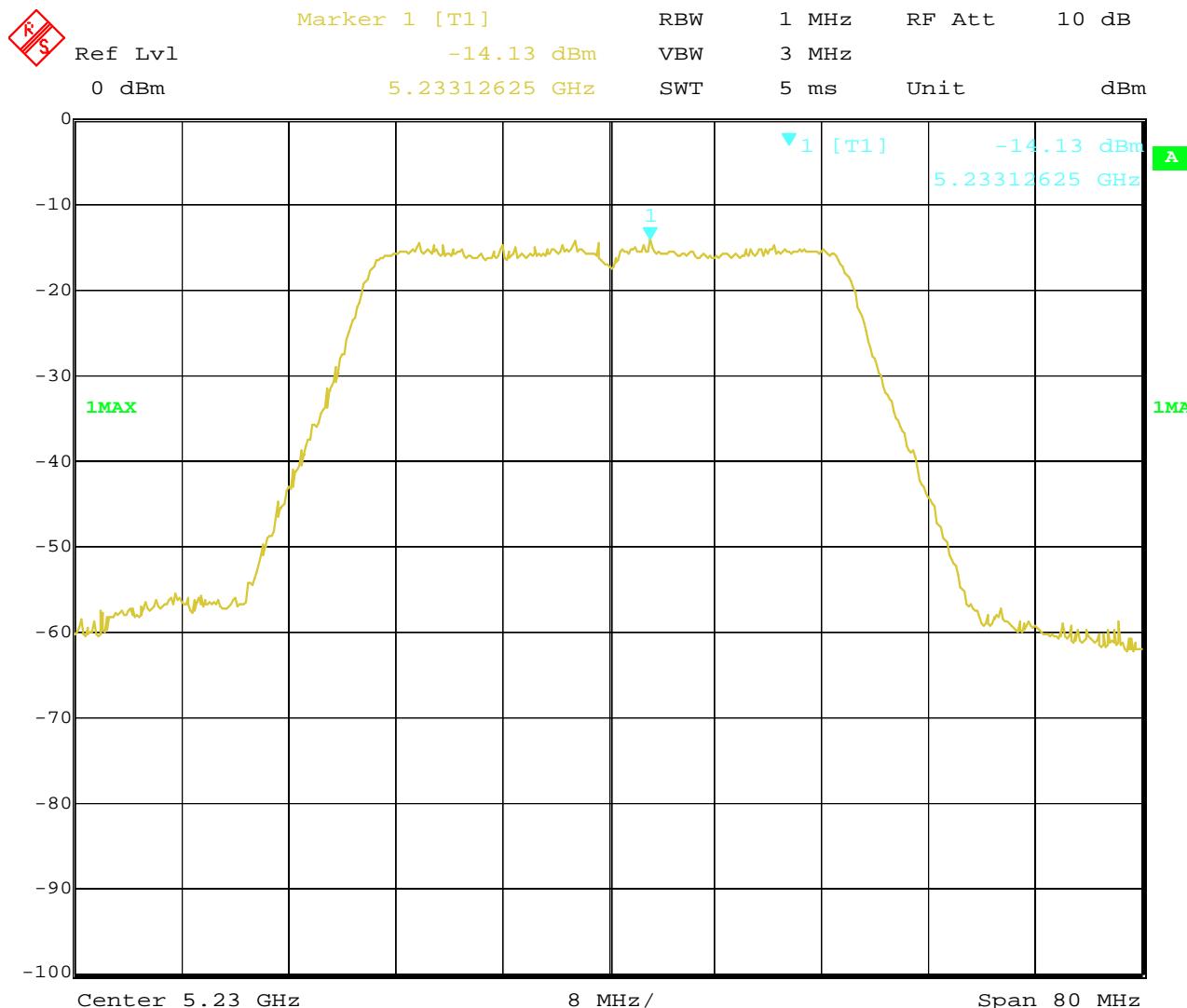
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2.802.11n HT40 at mcs0 of CH46



Date: 13.AUG.2020 13:17:15

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT20	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Pass/ Fail
36	5180	-10.26		10	Pass
40	5200	-10.29		10	Pass
48	5240	-10.34		10	Pass

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

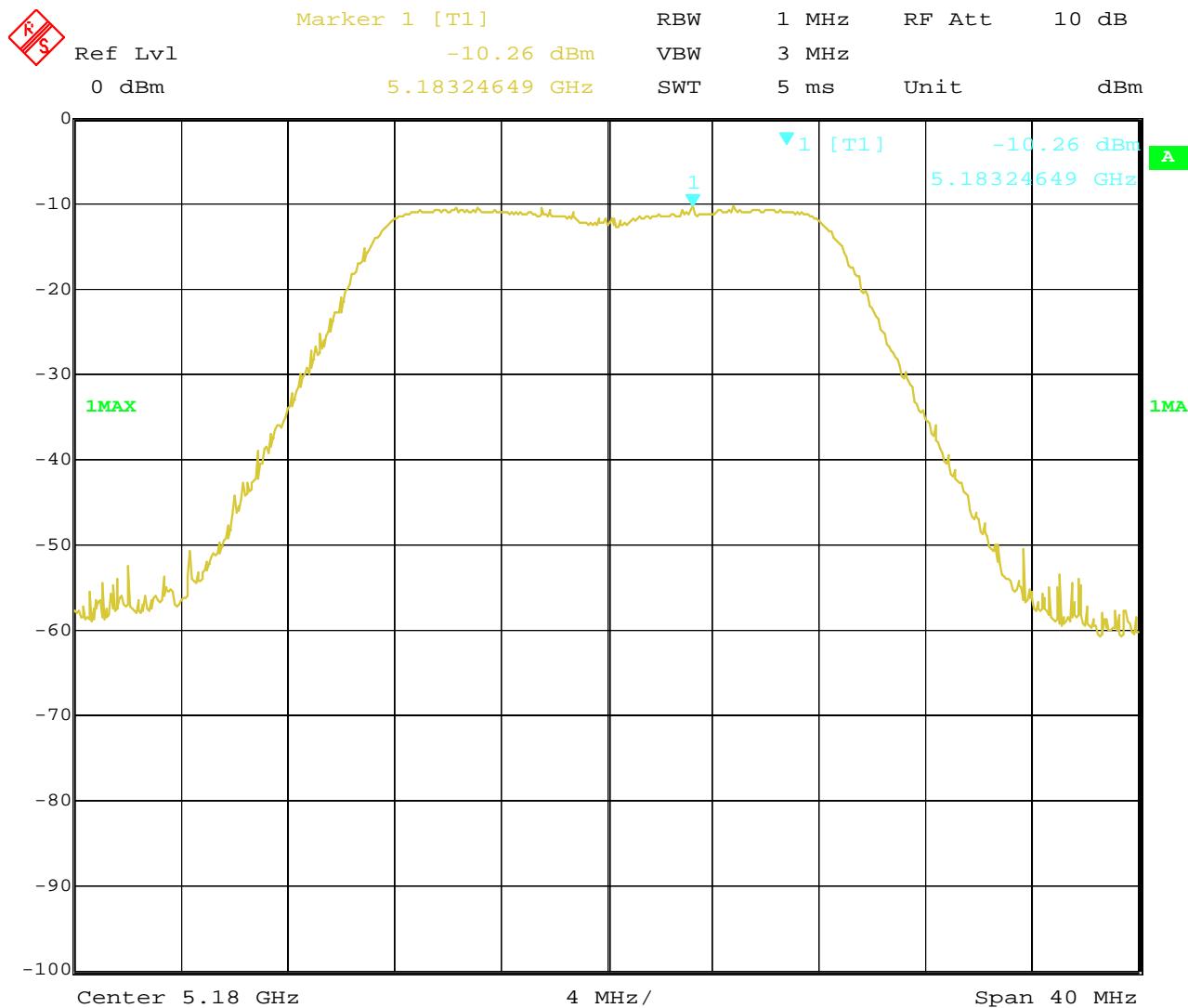
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Test Plots

1.802.11ac at mcs0 of CH36



Date: 13.AUG.2020 13:45:55

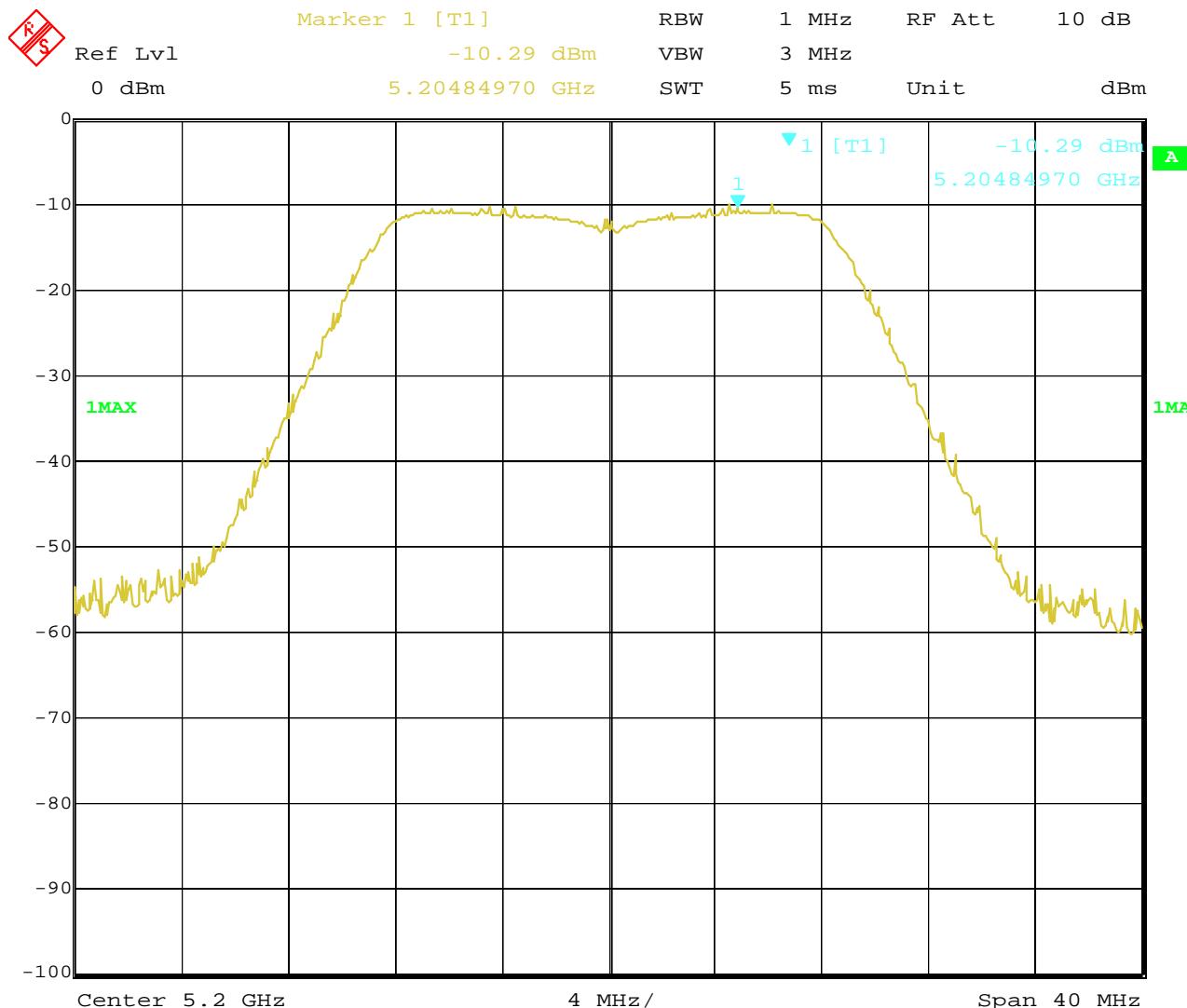
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2.802.11ac at mcs0 of CH40



Date: 13.AUG.2020 13:47:14

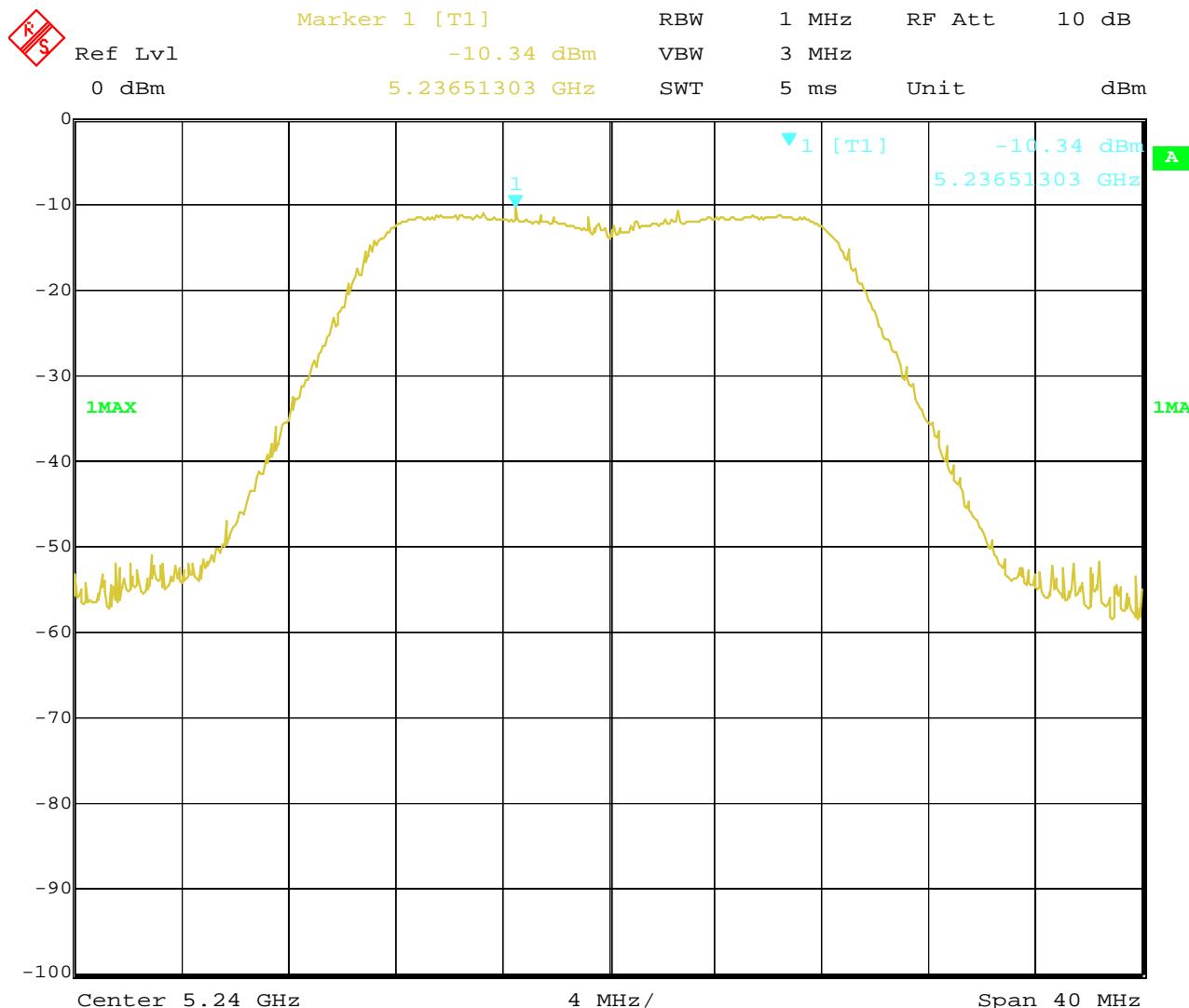
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3.802.11ac at mcs0 of CH48



Date: 13.AUG.2020 13:48:46

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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT40	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Pass/ Fail
38	5190	-13.80		10	Pass
46	5230	-14.71		10	Pass

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

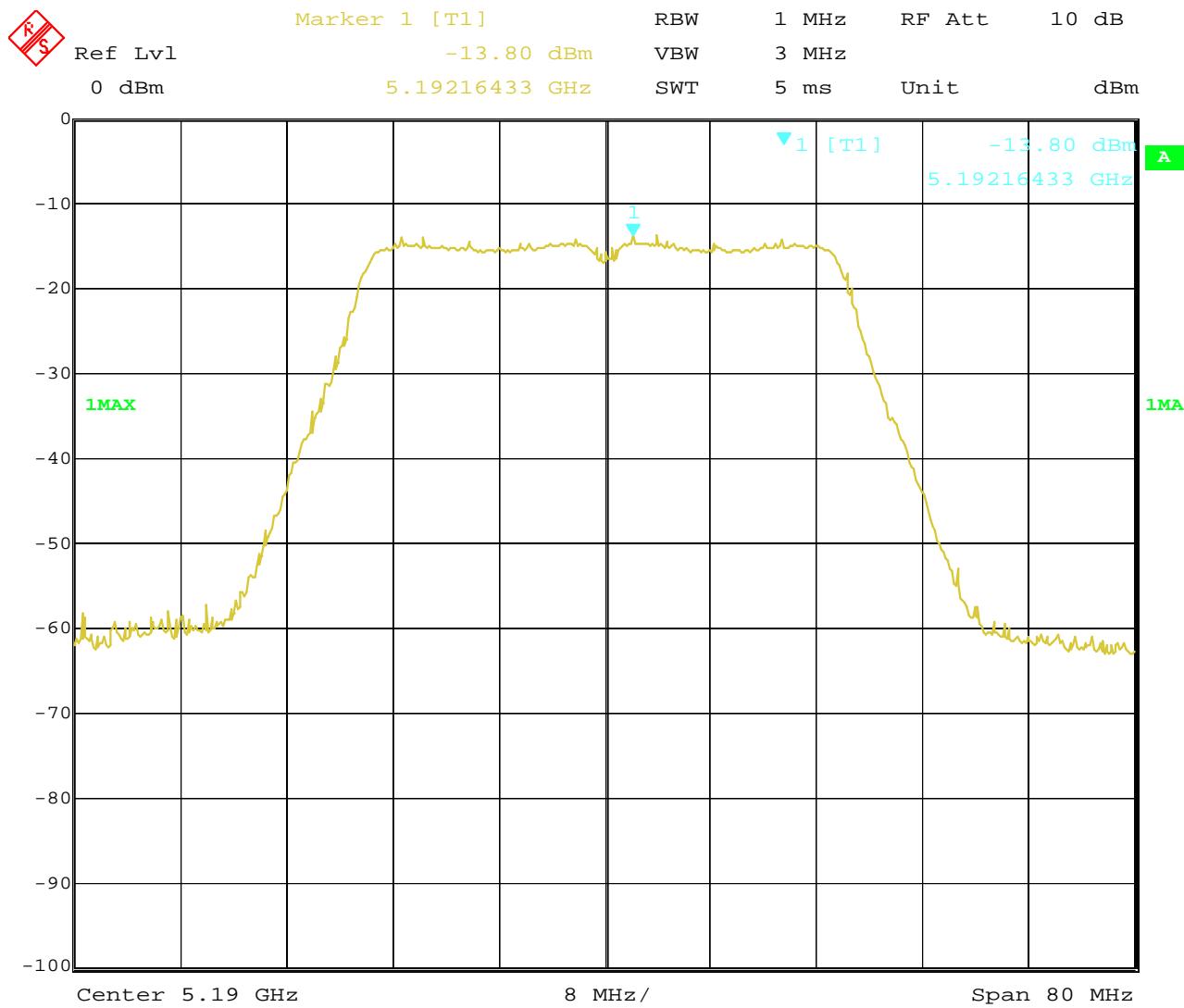
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Test Plots

1.802.11ac at mcs0 of CH38



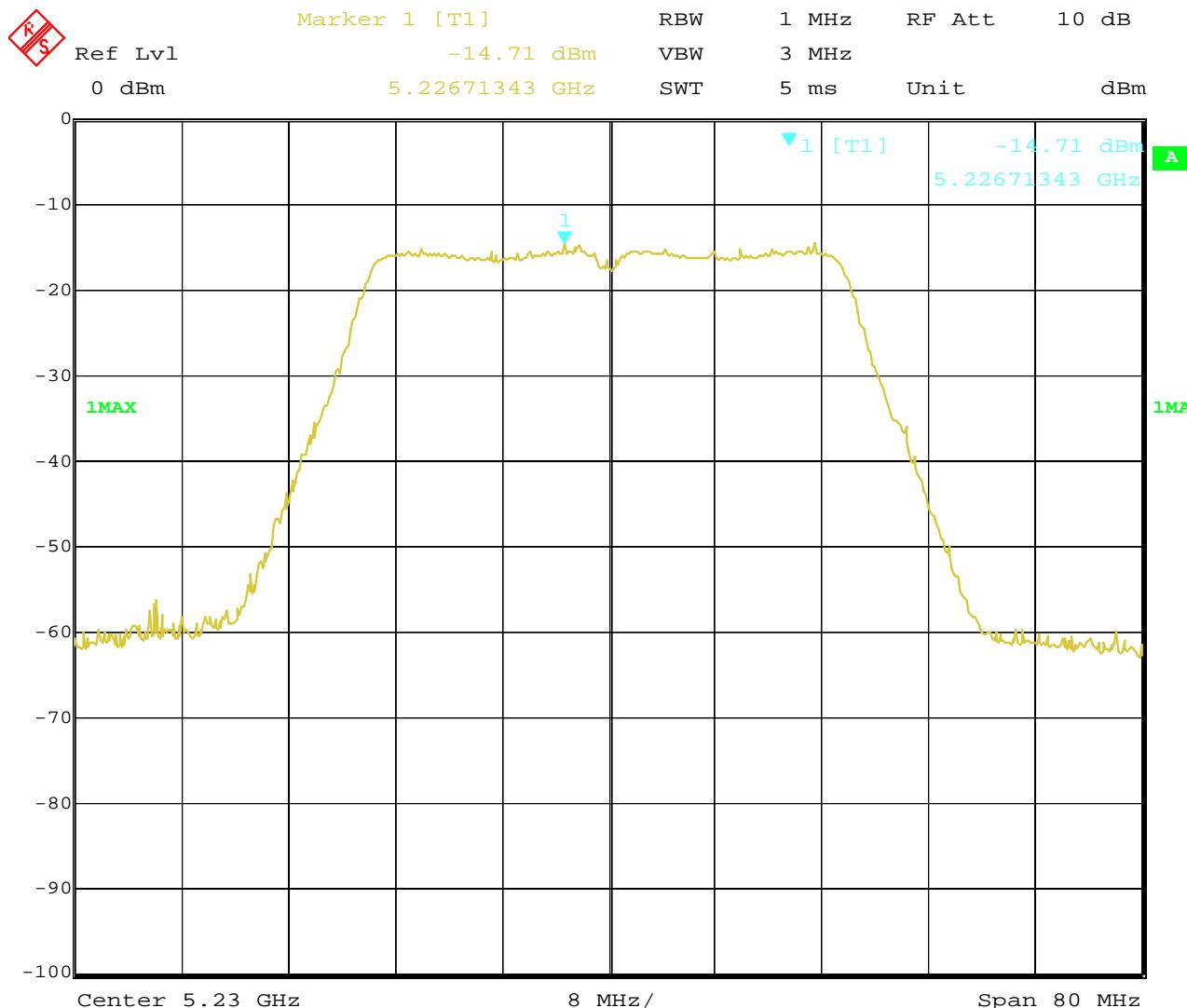
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2.802.11ac at mcs0 of CH46



Date: 13.AUG.2020 13:11:13

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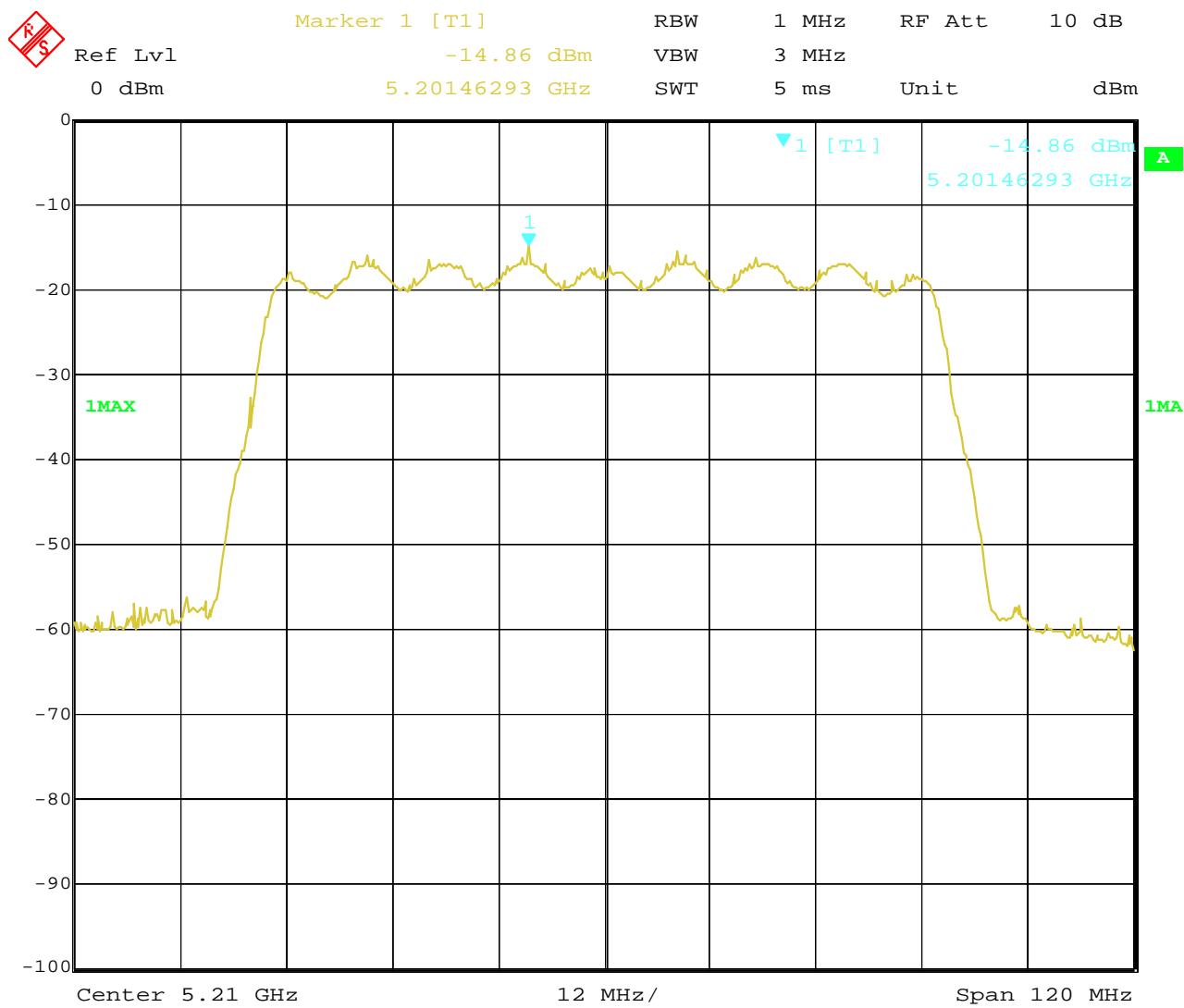
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EUT		4" HOT DESK	Model	ADD041	
Mode		802.11ac VHT80 23.9Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Total Spectral Density (dBm)			Limit (dBm)
42	5210	-14.86			10
					Pass

Test Plots

1.802.11ac at 23.9Mbps of CH42



Date: 13.AUG.2020 13:05:43

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

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10.0 Frequency Stability

10.1 Limits of Frequency Stability Measurement

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

10.2 Test Procedure

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

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10.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
138V	5179.9832
120V	5179.9806
102V	5179.9815
Max. Deviation (MHz)	0.0194
Max. Deviation (ppm)	3.7

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5179.9775
-20	5179.9789
-10	5179.9851
0	5179.9829
10	5179.9840
20	5179.9853
30	5179.9806
40	5179.9792
50	5179.9791
Max. Deviation (MHz)	0.0225
Max. Deviation (ppm)	4.3

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

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11.0 Antenna Requirement

11.1 Standard Applicable

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

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

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain is 2.95dBi.

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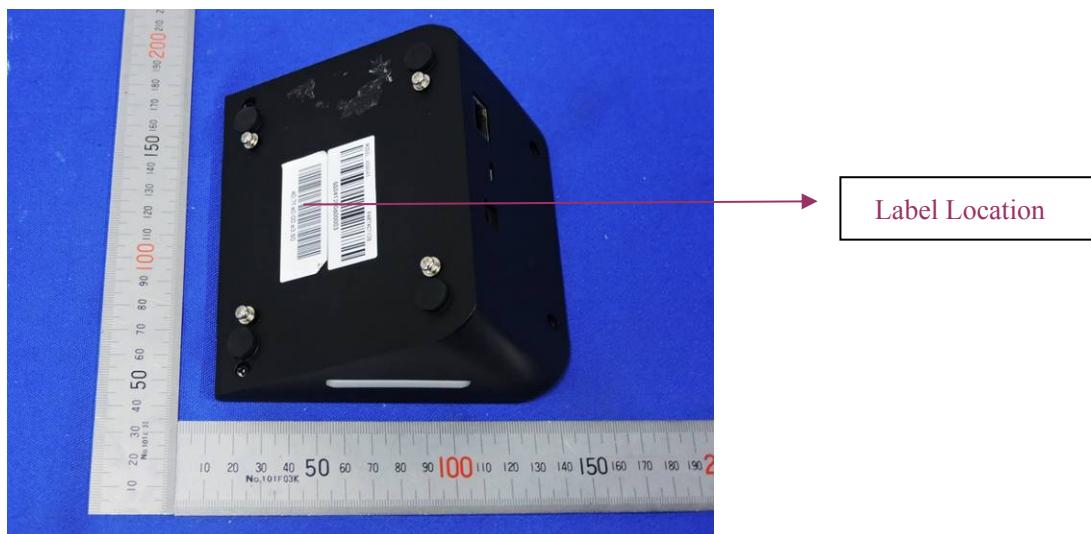
12.0 FCC Label

FCC ID: 2AACs-ADD041

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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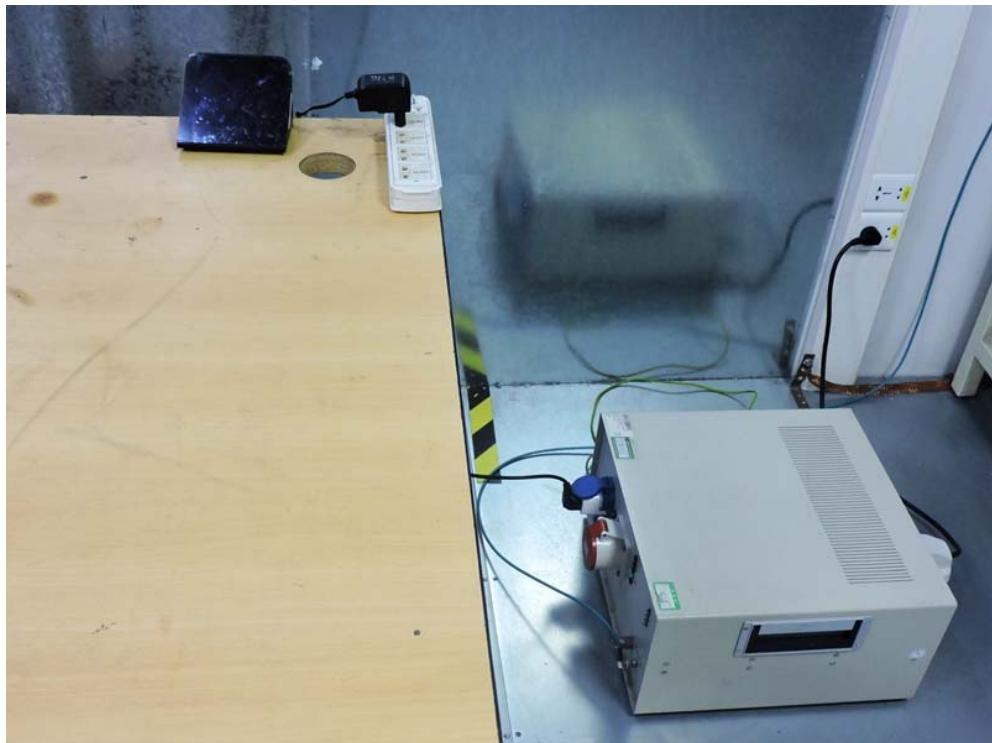
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced either in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send 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.

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13.0 Photo of testing

Conducted Emission Test Setup:



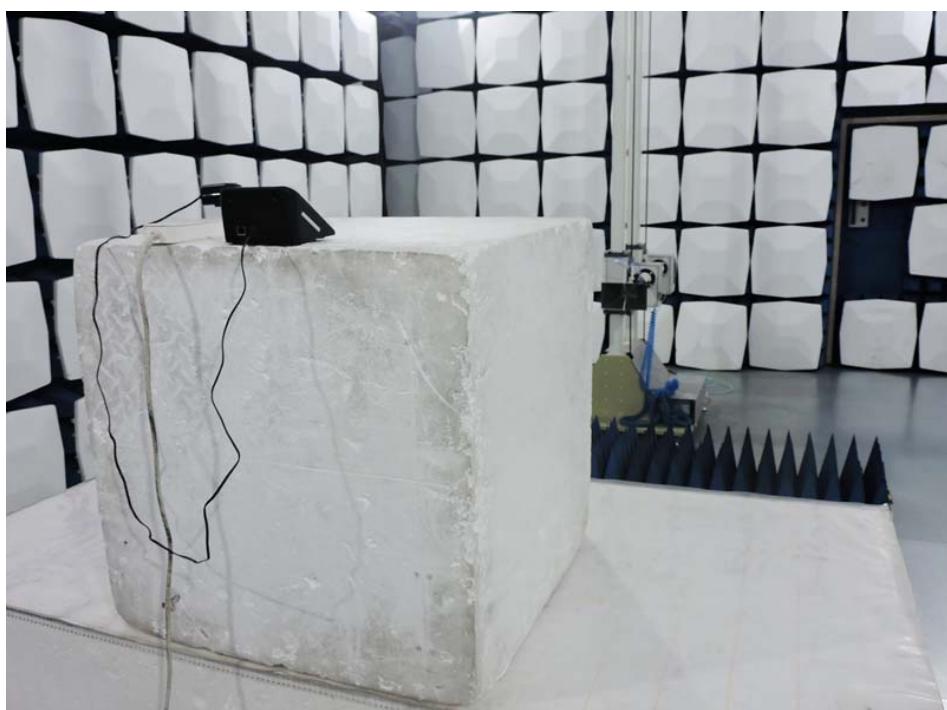
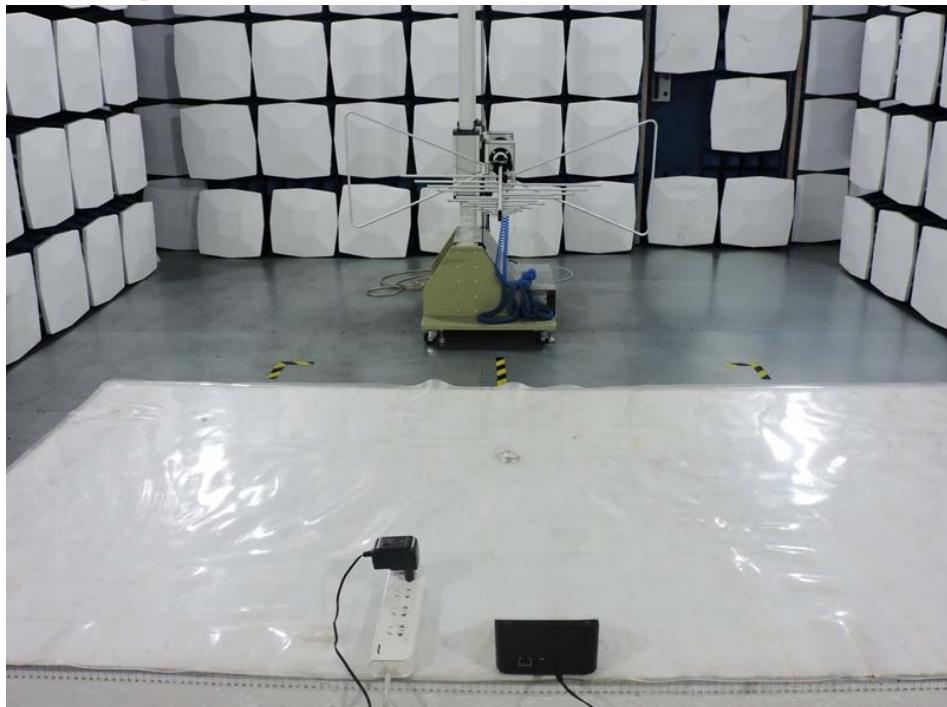
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Radiated Emission Test Setup:



Photos of EUT

Please see test report TW2007156-01E

End of the report

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