

FCC PART 15 SUBPART E TEST REPORT

for

Tablet

Model No.: Algiz RT10

FCC ID: YY3-182010

of

Applicant: Handheld Group AB

Address: Kinnegatan 17 A 531 33 Lidköping Sweden

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. TW1477

A2LA Accredited No.: 2732.01



Report No.: W6M21903-18857-C-54

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

Tester:

June 11, 2019

Spencer Yang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 11, 2019

Kevin Wang

Date

WTS

Name

Signature



Registration number: W6M21903-18857-C-54

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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. TW1477

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

1.3 Details of approval holder

Name: Handheld Group AB

Street: Kinnegatan 17 A 531 33

Town: Lidköping

Country: Sweden

Telephone: +46(0) 510-54 71 70

Fax: ./.

1.4 Application details

Date of receipt of test item: March 22, 2019

Date of test: from March 22, 2019 to June 05, 2019



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1.5 General information of Test item

Type of test item:	Tablet
Model Number:	Algiz RT10
Brand Name:	Handheld
Multi-listing model number:	./.
Photos:	see Appendix

Technical data

Frequency band:	Band 1: 5.150 GHz-5.250 GHz, Band 2: 5.250 GHz-5.350 GHz Band 3: 5.470 GHz-5.725 GHz, Band 4: 5.725 GHz-5.850 GHz
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Band 1

802.11a:	Low Channel (CH36): 5180 MHz Middle Channel (CH44): 5210 MHz High Channel (CH48): 5240 MHz
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802.11n 20MHz:	Low Channel (CH36): 5180 MHz Middle Channel (CH44): 5210 MHz High Channel (CH48): 5240 MHz
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802.11n 40MHz:	Low Channel (CH38): 5190 MHz High Channel (CH46): 5230 MHz
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802.11ac 80MHz:	CH42: 5210 MHz
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Band 2

802.11a:	Low Channel (CH52): 5260 MHz Middle Channel (CH56): 5280 MHz High Channel (CH64): 5320 MHz
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802.11n 20MHz:	Low Channel (CH52): 5260 MHz Middle Channel (CH56): 5280 MHz High Channel (CH64): 5320 MHz
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802.11n 40MHz:	Low Channel (CH54): 5270 MHz High Channel (CH62): 5310 MHz
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802.11ac 80MHz:	CH58: 5290 MHz
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Band 3

802.11a: Low Channel (CH100): 5500MHz
Middle Channel (CH120): 5600 MHz
High Channel (CH140): 5700 MHz

802.11n 20MHz: Low Channel (CH100): 5500 MHz
Middle Channel (CH120): 5600 MHz
High Channel (CH140): 5700 MHz

802.11n 40MHz: Low Channel (CH102): 5510 MHz
Middle Channel (CH118): 5590 MHz
High Channel (CH134): 5670 MHz

802.11ac 80MHz Low Channel (CH106): 5530 MHz
High Channel (CH122): 5610 MHz

Band 4

802.11a: Low Channel (CH149): 5745 MHz
Middle Channel (CH157): 5785 MHz
High Channel (CH165): 5825 MHz

802.11n 20MHz: Low Channel (CH149): 5745 MHz
Middle Channel (CH157): 5785 MHz
High Channel (CH165): 5825 MHz

802.11n 40MHz: Low Channel (CH151): 5755 MHz
High Channel (CH159): 5795 MHz

802.11ac 80MHz CH155: 5775 MHz



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Band 1

Numbers of channel: 802.11a: 4 channels
802.11n 20 MHz: 4 channels
802.11n 40 MHz: 2 channels
802.11ac 80 MHz: 1 channel

Band 2

Numbers of channel: 802.11a: 4 channels
802.11n 20 MHz: 4 channels
802.11n 40 MHz: 2 channels
802.11ac 80 MHz: 1 channel

Band 3

Numbers of channel: 802.11a: 11 channels
802.11n 20 MHz: 11 channels
802.11n 40 MHz: 5 channels
802.11ac 80 MHz: 2 channel

Band 4

Numbers of channel: 802.11a: 5 channels
802.11n 20 MHz: 5 channels
802.11n 40 MHz: 2 channels
802.11ac 80 MHz: 1 channel

Operating modes: Duplex

Type of modulation: OFDM

Fixed point to point operation: Yes / No

Antenna: FPC Antenna

Antenna gain: WLAN & Bluetooth Low Energy ANT1: 1 dBi
WLAN ANT2: 2 dBi

Directional gain: 4.52 dBi

Power supply: Adapter (I/P: 100-240V~50/60Hz, 0.5A
O/P: 3.6-6V, 3A / 6-9V, 2A / 9-12V, 1.5A)
Battery 3.7V, 7500mAh, Battery 3.7V, 1550mAh

Band 1

Emission designator: 802.11a: 16M6D1D
802.11n 20 MHz: 17M6D1D
802.11n 40 MHz: 36M2D1D
802.11ac 80 MHz: 75M0D1D

Band 2

Emission designator: 802.11a: 16M4D1D
802.11n 20 MHz: 17M6D1D
802.11n 40 MHz: 36M2D1D
802.11ac 80 MHz: 75M0D1D



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Band 3

Emission designator: 802.11a: 16M4D1D
 802.11n 20 MHz: 17M6D1D
 802.11n 40 MHz: 36M2D1D
 802.11ac 80 MHz: 75M3D1D

Band 4

Emission designator: 802.11a: 16M3D1D
 802.11n 20 MHz: 17M3D1D
 802.11n 40 MHz: 36M0D1D
 802.11ac 80 MHz: 75M0D1D

Note: Tests were performed under worst case mode 802.11a 6 Mbps, 802.11n 20MHz(MCS0), 802.11n 40MHz(MCS0) and 802.11ac 80MHz(MCS0).

Classification:

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☒
Modular Radio Device	☐

Note: This device was functioned as a ☐ Master ☒ Slave device during the DFS

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

		ANT A	ANT B
		Mode A	Mode A
5.15 GHz~5.25 GHz	IEEE 802.11 a	Mode A	Mode A
	IEEE 802.11 n(20M)	Mode B	Mode B
	IEEE 802.11 n(40M)	Mode C	Mode C
	IEEE 802.11 ac(80M)	Mode D	Mode D
5.25 GHz~5.35 GHz	IEEE 802.11 a	Mode E	Mode E
	IEEE 802.11 n(20M)	Mode F	Mode F
	IEEE 802.11 n(40M)	Mode G	Mode G
	IEEE 802.11 ac(80M)	Mode H	Mode H
5.47 GHz~5.725GHz	IEEE 802.11 a	Mode I	Mode I
	IEEE 802.11 n(20M)	Mode J	Mode J
	IEEE 802.11 n(40M)	Mode K	Mode K
	IEEE 802.11 ac(80M)	Mode L	Mode L
5.725 GHz~5.85GHz	IEEE 802.11 a	Mode M	Mode M
	IEEE 802.11 n(20M)	Mode N	Mode N
	IEEE 802.11 n(40M)	Mode O	Mode O
	IEEE 802.11 ac(80M)	Mode P	Mode P



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Transmitter

Unom

Antenna A

Band 1

Mode A (OFDM)

Power (ch 36 or A):

Conducted: 11.68 dBm

Power (ch 44 or B):

Conducted: 12.26 dBm

Power (ch 48 or C):

Conducted: 11.13 dBm

Mode B (OFDM)

Power (ch 36 or A):

Conducted: 12.96 dBm

Power (ch 44 or B):

Conducted: 11.95 dBm

Power (ch 48 or C):

Conducted: 13.53 dBm

Mode C (OFDM)

Power (ch 38 or A):

Conducted: 10.34 dBm

Power (ch 46 or B):

Conducted: 11.38 dBm

Mode D (OFDM)

Power (ch 42 or A):

Conducted: 10.34 dBm

Band 2

Mode E (OFDM)

Power (ch 52 or A):

Conducted: 11.06 dBm

Power (ch 56 or B):

Conducted: 11.34 dBm

Power (ch 64 or C):

Conducted: 11.70 dBm

Mode F (OFDM)

Power (ch 52 or A):

Conducted: 14.09 dBm

Power (ch 56 or B):

Conducted: 11.99 dBm

Power (ch 64 or C):

Conducted: 14.10 dBm

Mode G (OFDM)

Power (ch 54 or A):

Conducted: 11.55 dBm

Power (ch 62 or B):

Conducted: 11.81 dBm

Mode H (OFDM)

Power (ch 58 or A):

Conducted: 11.42 dBm

Band 3

Mode I (OFDM)

Power (ch 100 or A):

Conducted: 11.98 dBm

Power (ch 120 or B):

Conducted: 12.54 dBm

Power (ch 140 or C):

Conducted: 12.75 dBm

Mode J (OFDM)

Power (ch 100 or A):

Conducted: 12.39 dBm

Power (ch 120 or B):

Conducted: 12.45 dBm

Power (ch 140 or C):

Conducted: 12.73 dBm

Mode K (OFDM)

Power (ch 102 or A):

Conducted: 10.07 dBm

Power (ch 118 or B):

Conducted: 12.17 dBm

Power (ch 134 or C):

Conducted: 12.37 dBm

Mode L (OFDM)

Power (ch 106 or A):

Conducted: 9.05 dBm

Power (ch 122 or B):

Conducted: 10.25 dBm



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Band 4

Mode M (OFDM)

Power (ch 149 or A):	Conducted: 10.83 dBm
Power (ch 157 or B):	Conducted: 10.12 dBm
Power (ch 165 or C):	Conducted: 10.59 dBm

Mode N (OFDM)

Power (ch 149 or A):	Conducted: 10.02 dBm
Power (ch 157 or B):	Conducted: 10.11 dBm
Power (ch 165 or C):	Conducted: 10.19 dBm

Mode O (OFDM)

Power (ch 151 or A):	Conducted: 10.40 dBm
Power (ch 159 or B):	Conducted: 10.26 dBm

Mode P (OFDM)

Power (ch 155 or A):	Conducted: 10.05 dBm
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Antenna B

Band 1

Mode A (OFDM)

Power (ch 36 or A):	Conducted: 11.35 dBm
Power (ch 44 or B):	Conducted: 11.86 dBm
Power (ch 48 or C):	Conducted: 10.46 dBm

Mode B (OFDM)

Power (ch 36 or A):	Conducted: 13.13 dBm
Power (ch 44 or B):	Conducted: 11.39 dBm
Power (ch 48 or C):	Conducted: 13.53 dBm

Mode C (OFDM)

Power (ch 38 or A):	Conducted: 10.33 dBm
Power (ch 46 or B):	Conducted: 11.31 dBm

Mode D (OFDM)

Power (ch 42 or A):	Conducted: 10.36 dBm
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Band 2

Mode E (OFDM)

Power (ch 52 or A):	Conducted: 10.19 dBm
Power (ch 56 or B):	Conducted: 10.05 dBm
Power (ch 64 or C):	Conducted: 9.65 dBm

Mode F (OFDM)

Power (ch 52 or A):	Conducted: 13.93 dBm
Power (ch 56 or B):	Conducted: 11.89 dBm
Power (ch 64 or C):	Conducted: 14.04 dBm

Mode G (OFDM)

Power (ch 54 or A):	Conducted: 11.53 dBm
Power (ch 62 or B):	Conducted: 11.83 dBm

Mode H (OFDM)

Power (ch 58 or A):	Conducted: 11.38 dBm
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Band 3

Mode I (OFDM)

Power (ch 100 or A): Conducted: 11.56 dBm
Power (ch 120 or B): Conducted: 8.23 dBm
Power (ch 140 or C): Conducted: 9.67 dBm

Mode J (OFDM)

Power (ch 100 or A): Conducted: 12.34 dBm
Power (ch 120 or B): Conducted: 12.49 dBm
Power (ch 140 or C): Conducted: 12.72 dBm

Mode K (OFDM)

Power (ch 102 or A): Conducted: 10.06 dBm
Power (ch 118 or B): Conducted: 12.15 dBm
Power (ch 134 or C): Conducted: 12.34 dBm

Mode L (OFDM)

Power (ch 106 or A): Conducted: 9.01 dBm
Power (ch 122 or B): Conducted: 10.19 dBm

Band 4

Mode M (OFDM)

Power (ch 149 or A): Conducted: 9.53 dBm
Power (ch 157 or B): Conducted: 9.75 dBm
Power (ch 165 or C): Conducted: 9.49 dBm

Mode N (OFDM)

Power (ch 149 or A): Conducted: 9.42 dBm
Power (ch 157 or B): Conducted: 9.36 dBm
Power (ch 165 or C): Conducted: 9.16 dBm

Mode O (OFDM)

Power (ch 151 or A): Conducted: 9.41 dBm
Power (ch 159 or B): Conducted: 9.37 dBm

Mode P (OFDM)

Power (ch 155 or A): Conducted: 9.04 dBm

Band 1 (5.15GHz~5.25GHz)

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	40.33	29.44	45.08	16.06	14.69	16.54
802.11n 40MHz	21.60	--	27.26	13.34	--	14.36
802.11ac	21.67	--	--	13.36	--	--

Band 2 (5.25GHz~5.35GHz)

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	50.36	31.26	51.05	17.02	14.95	17.08
802.11n 40MHz	28.51	--	30.41	14.55	--	14.83
802.11ac	27.61	--	--	14.41	--	--



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Band 3 (5.47GHz~5.725GHz)

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	34.48	35.32	37.46	15.38	15.48	15.74
802.11n 40MHz	20.30	32.89	34.40	13.07	15.17	15.37
802.11ac	16.00	--	21.04	12.04	--	13.23

Band 4 (5.725GHz~5.85GHz)

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	18.80	18.89	18.69	12.74	12.76	12.72
802.11n 40MHz	19.69	--	19.27	12.94	--	12.85
802.11ac	18.14	--	--	12.59	--	--

1.6 Test standards

Technical standard : 47 CFR FCC Part 15 Subpart E § 15.407(2018-10)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 3 were ascertained in the course of the tests performed.



2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply: Adapter (I/P: 100-240V~50/60Hz, 0.5A
O/P: 3.6-6V, 3A / 6-9V, 2A / 9-12V, 1.5A)
Battery 3.7V, 7500mAh, Battery 3.7V, 1550mAh



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Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : AMN : 1.30 dB Voltage probe : 1.36 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty : 0.009-30 MHz : 2.02 dB 30-1000 MHz : 3.49 dB 1-18 GHz : 3.01 dB 18-40 GHz : 2.43 dB
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.72 dB
Estimation Result of Uncertainty of Power Density Measurement Power density	Expanded Uncertainty : 1.73 dB
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.98 dBc
Estimation Result of Uncertainty of Conducted Spurious Emission Measurement Conducted spurious emission	Expanded Uncertainty : 1.726 dB
Estimation Result of Uncertainty of EIRP Measurement EIRP 、 ERP 、 Output power(dBm) 、 Radiated spurious emission(dBm), Receiver spurious radiations (≥ 30 MHz)	Expanded Uncertainty : 30-200MHz : 2.50 dB 200-1000MHz : 2.50 dB 1-18GHz : 3.38 dB 18-40GHz : 3.04 dB
Estimation Result of Uncertainty of DFS Timing	Expanded Uncertainty : 0.6 ms
Estimation Result of Uncertainty of DFS Threshold	Expanded Uncertainty : 1.71 dB

The decision rule is : Measurement uncertainty is not taken into account.



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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2019/5/20	2020/5/19
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2018/11/1	2019/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2018/8/21	2019/8/20
ETSTW-CE 008	HF-EICHLLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2018/7/13	2019/7/12
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2018/9/25	2019/9/24
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2018/7/16	2019/7/15
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2019/5/20	2020/5/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2019/5/29	2020/5/28
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2018/7/13	2019/7/12
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2018/7/12	2019/7/11
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2019/4/2	2020/4/1
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2019/1/29	2020/1/28
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2019/4/23	2020/4/22
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2019/5/13	2020/5/12
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2019/3/5	2020/3/4
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2019/2/27	2020/2/26
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/5/16	2020/5/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2018/9/17	2019/9/16
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2018/9/18	2019/9/17
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2019/5/9	2020/5/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2019/2/22	2020/2/21
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2019/1/15	2020/1/14



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ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2019/5/20	2020/5/19
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2019/2/26	2020/2/25
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/5/16	2020/5/15
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2019/4/2	2020/4/1
ETSTW-RE 151	Thermohygrometer	608-h1	45104376	TESTO	2018/8/17	2019/8/16
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2019/5/16	2020/5/15
ETSTW-EMS 008	Exposure Level Tester	ELT-400	G-0009	Narda	2018/7/17	2019/7/16
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2019/3/5	2020/3/4
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2019/3/26	2020/3/25
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2018/10/19	2019/10/18
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2019/1/14	2020/1/13
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2019/1/14	2020/1/13
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2019/1/14	2020/1/13
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2019/1/14	2020/1/13
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2018/9/12	2019/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2019/3/5	2020/3/4
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2018/8/9	2019/8/8
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2018/7/2	2019/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/10	2020/5/9
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2019/6/4	2020/6/3
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/5/16	2020/5/15



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ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2019/3/15	2020/3/14
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2019/6/4	2020/6/3
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2019/5/16	2020/5/15
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	



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2.4 Test Procedure

The test procedures are performed following the test stands ANSI STANDARD C63.10 and FCC 789033 D02 General UNII Test Procedures New Rules v01r04.

■ Minimum Emission Bandwidth for the band 5.150-5.250 GHz, 5.725-5.850 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

■ 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section H)3)d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the 6-dB emission bandwidth to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section E). However, the 6-dB bandwidth must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth.

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



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■ Maximum conducted output power

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW $\geq$ 3 MHz.
- (iv) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle $<$ 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq$ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

■ Power Density

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or



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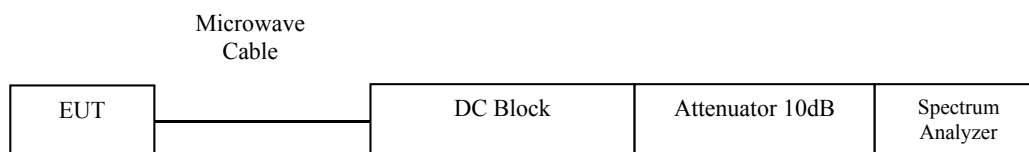
FCC ID: YY3-182010

500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

Conducted measurement test setup





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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Transmit Power	15.407(a)	☒	☒	☐
6-dB emission bandwidth	15.407(a)	☒	☒	☐
26-dB emission bandwidth	15.407(a)	☒	☒	☐
99 % Occupied Bandwidth	789033 D02 General UNII Test Procedures New Rules v01	☒	☒	☐
Peak Power Spectral Density	15.407(a)	☒	☒	☐
Undesirable emission limits	15.407(b)	☒	☒	☐
Radio Frequency Exposure	15.407(f)	☒	☒	☐
Transmit Power Control	15.407(h)	☐	☐	☐
Dynamic Frequency Selection (DFS)	15.407(h)	☒	☒	☐
Channel Move Time, Channel Closing Transmission Time	15.407(i)	☒	☒	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
AC Conducted Emissions	15.207	☒	☒	☐

The following is intentionally left blank.

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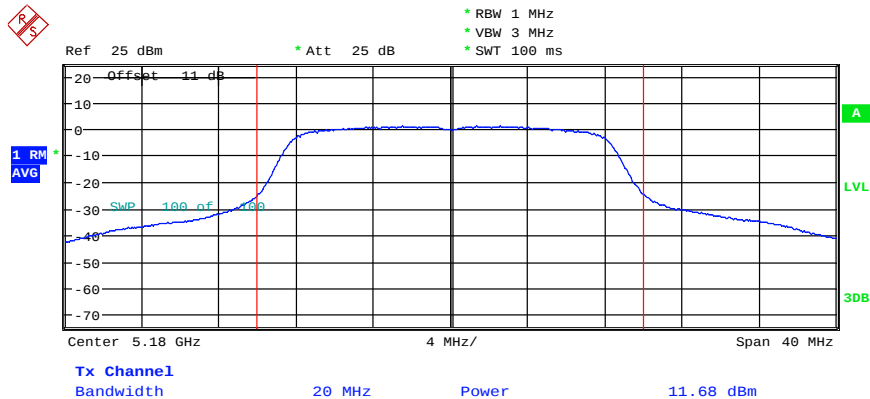
3.1 Peak Transmit Power, FCC 15.407 (a)

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 30 dBm (1 W) for master device and 24 dBm (250 mW) for mobile/portable client device.
2. For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 24 dBm (250 mW) or $11\text{dBm} + 10 \log B$, whichever is lower ($B = 26\text{-dB emission BW}$).
3. For the band 5.725-5.850 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 30 dBm (1 W).

ANTA

5.15 GHz ~ 5.25 GHz



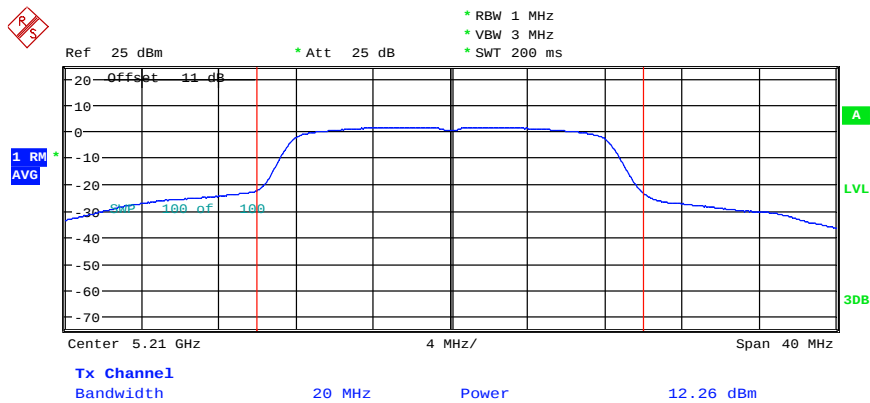
MAXIMUM CONDUCTED POWER ANT1_11aCH36

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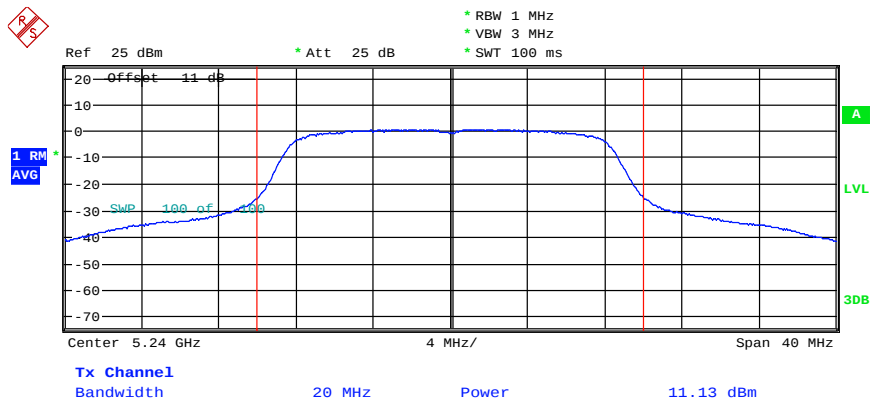
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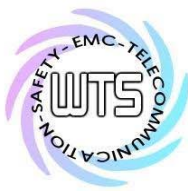
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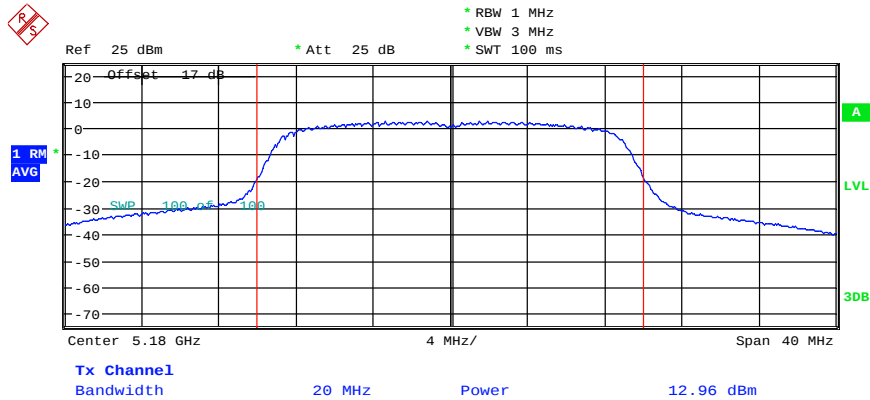


MAXIMUM CONDUCTED POWER ANT1_11aCH48

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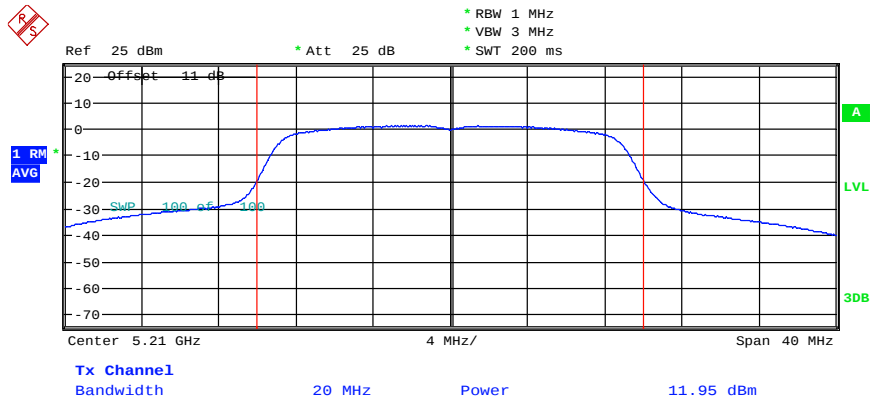


Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11ac20CH36

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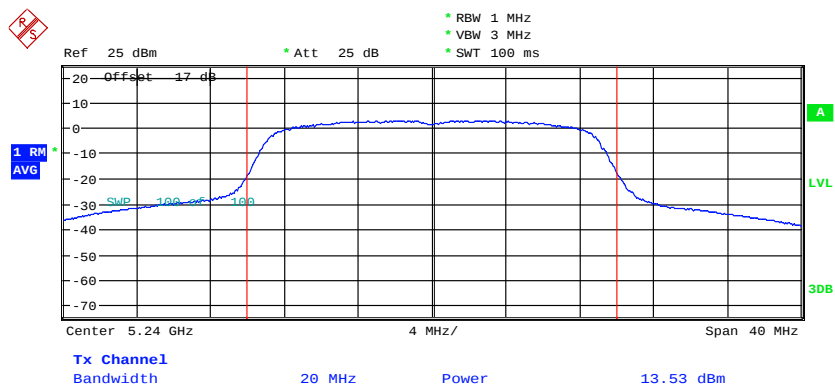


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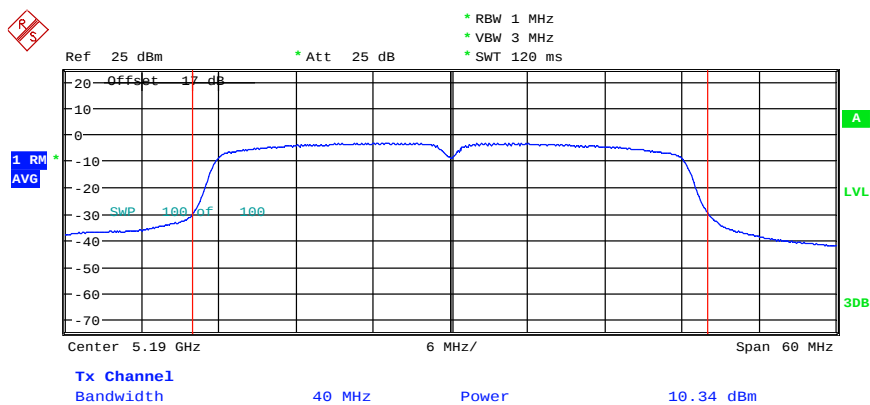
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FCC ID: YY3-182010



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Date: 22.APR.2019 11:58:29



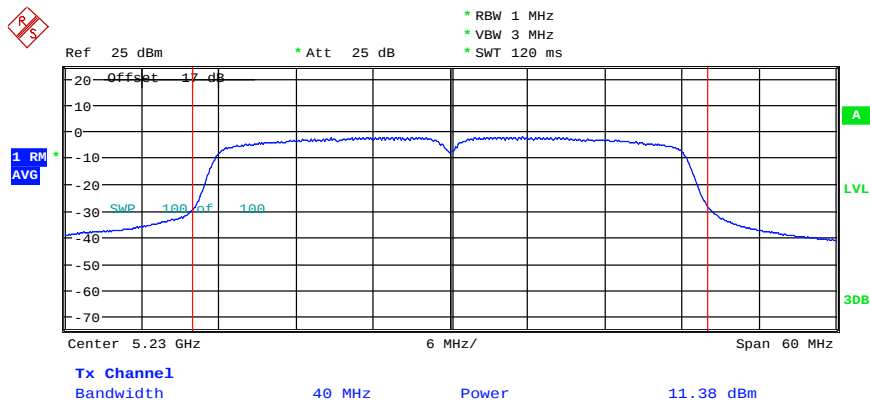
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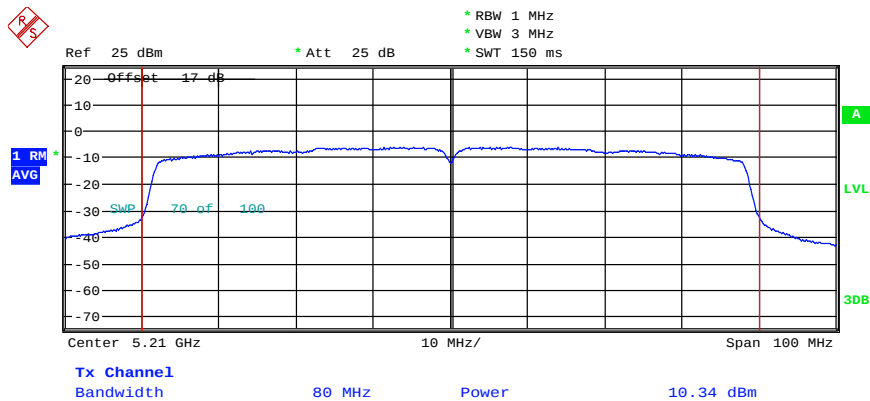
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FCC ID: YY3-182010



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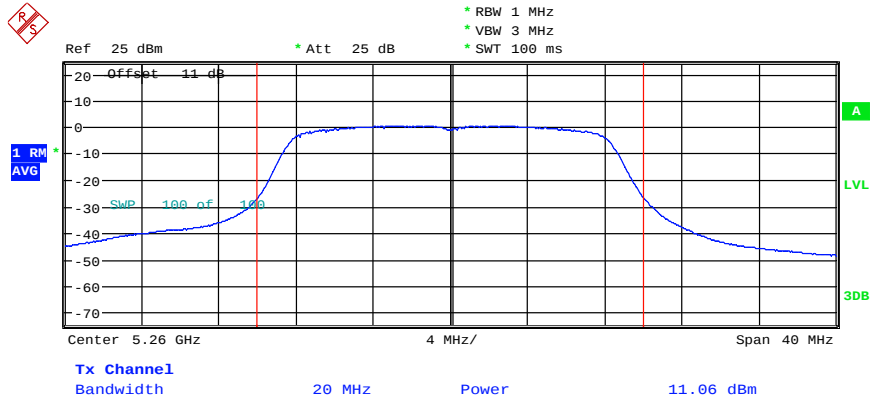
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Registration number: W6M21903-18857-C-54

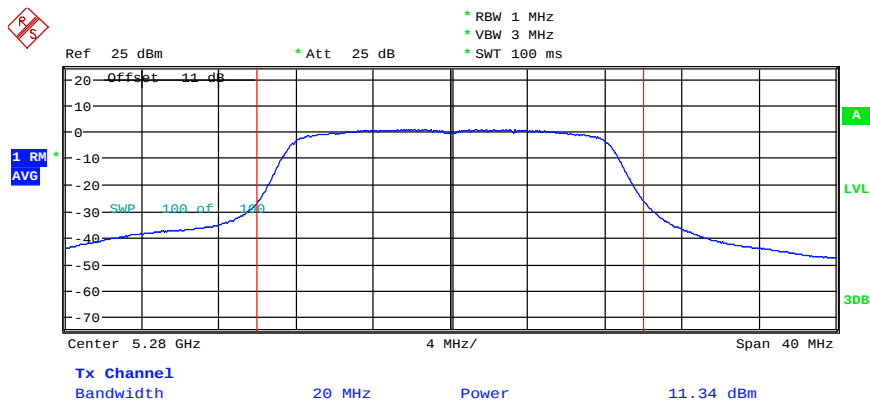
FCC ID: YY3-182010

5.25 GHz ~ 5.35 GHz



MAXIMUM CONDUCTED POWER ANT1_11aCH52

Date: 22.APR.2019 11:00:16



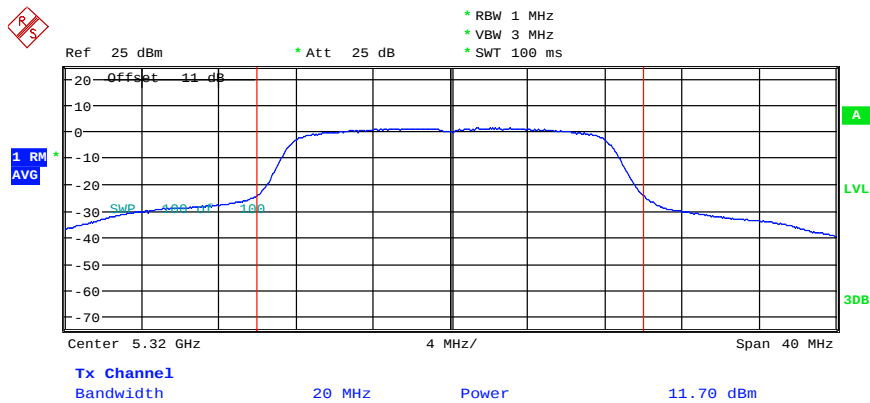
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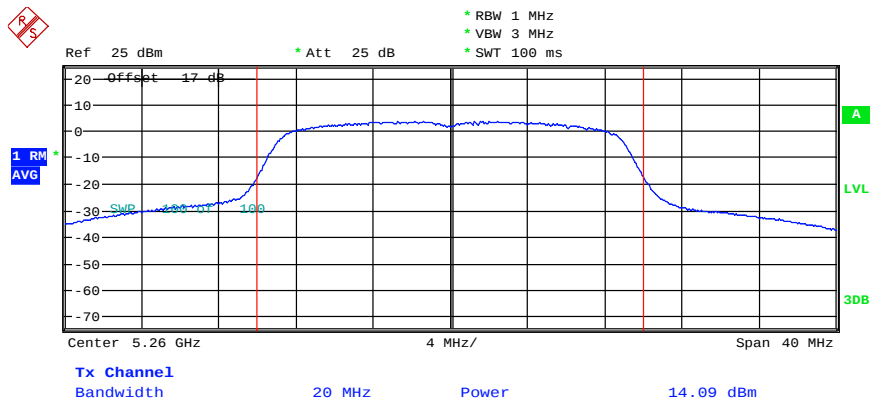
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FCC ID: YY3-182010



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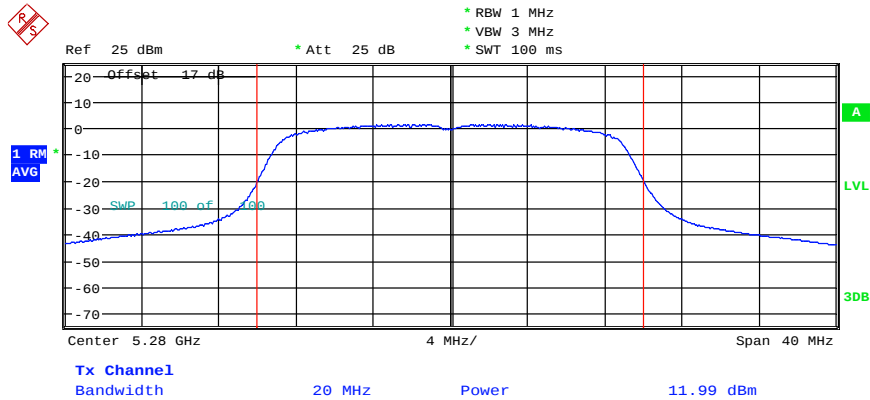
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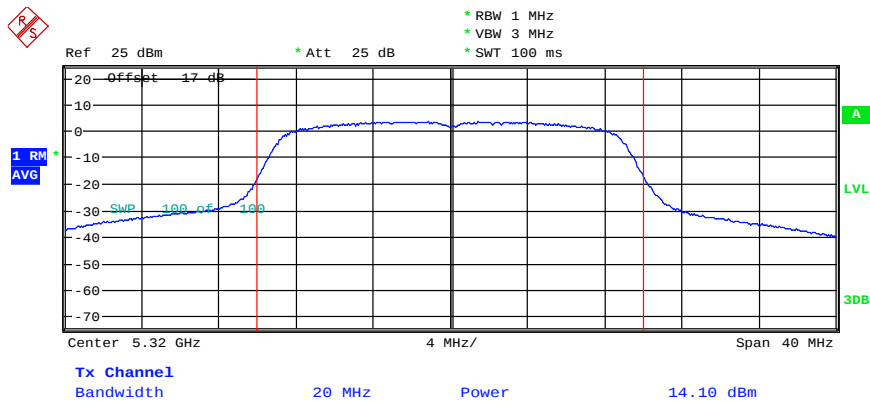
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FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11ac20CH56

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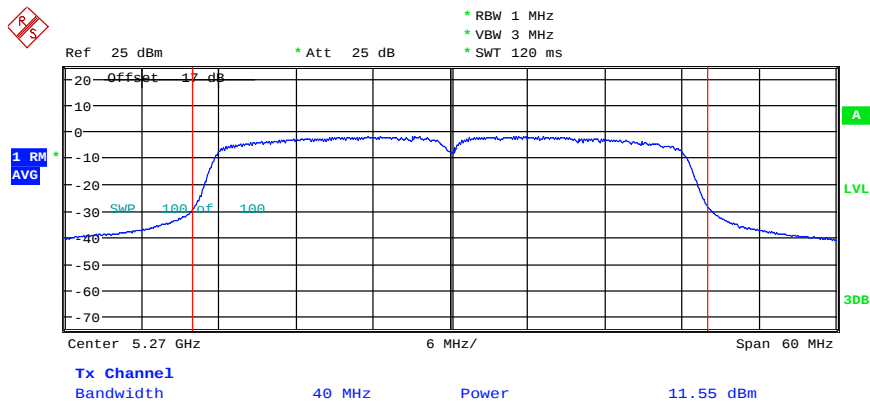
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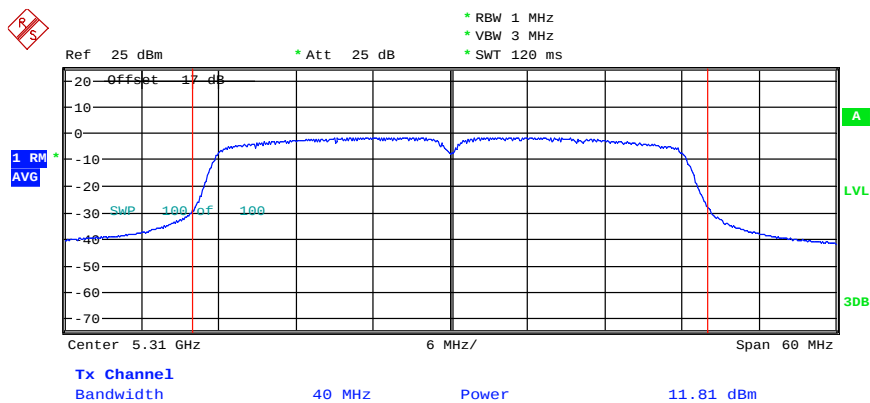
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FCC ID: YY3-182010



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Date: 22.APR.2019 13:34:03



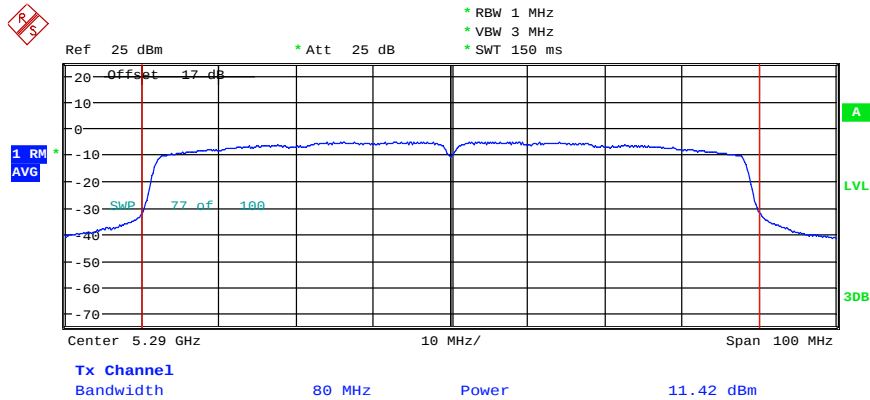
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Date: 22.APR.2019 13:37:47



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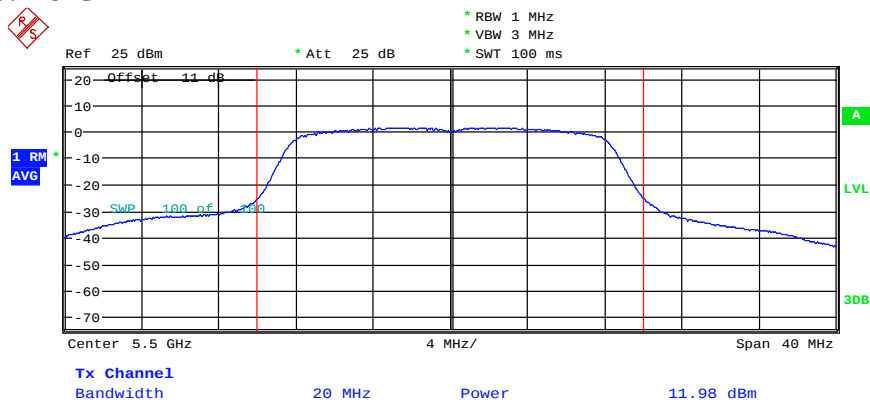
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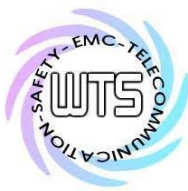
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5.47 GHz ~ 5.725 GHz



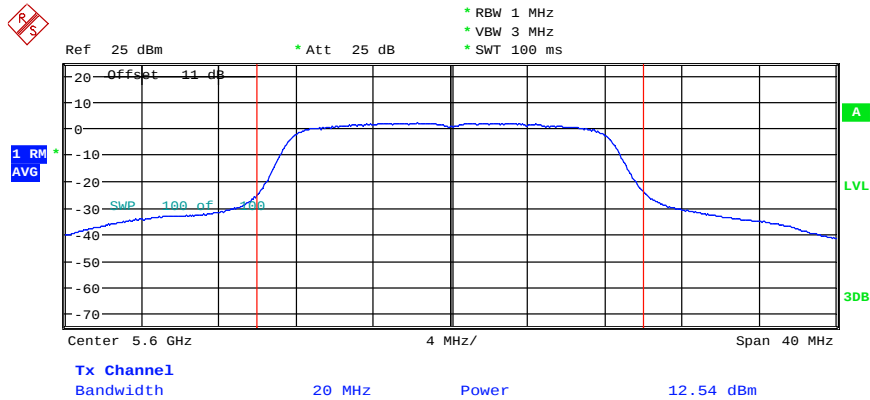
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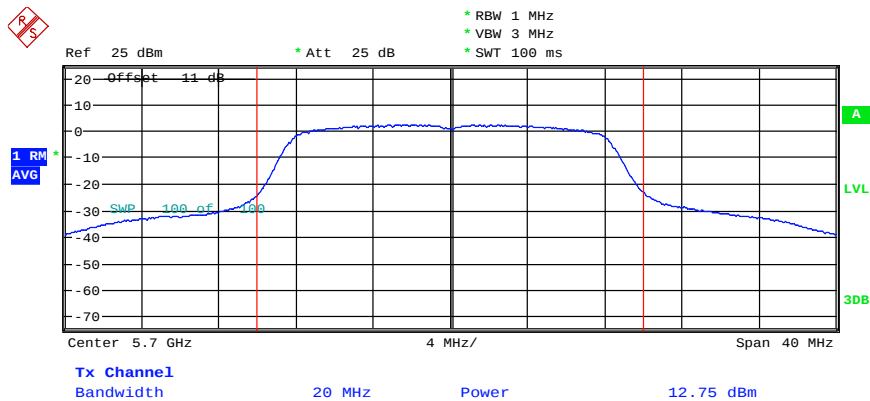
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FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11aCH120

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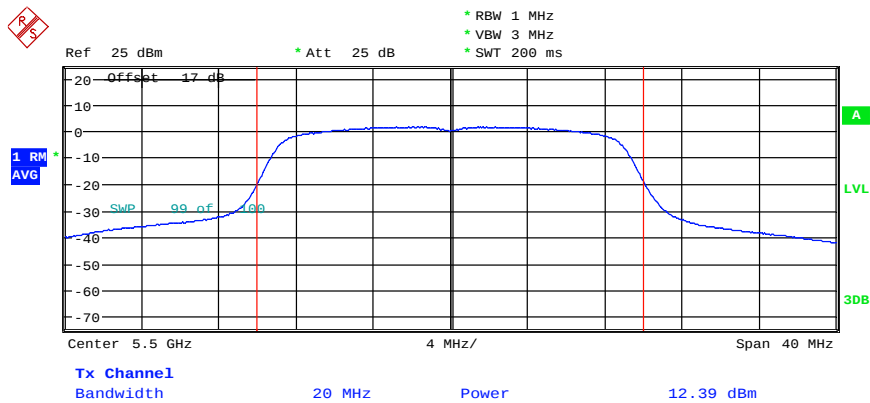
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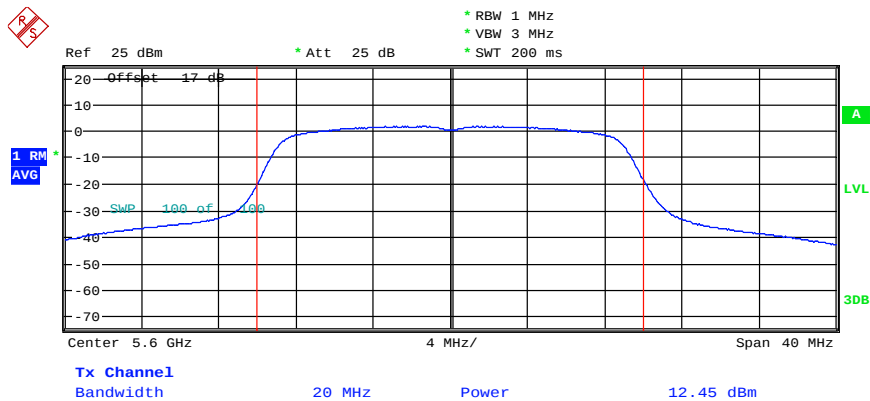
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FCC ID: YY3-182010



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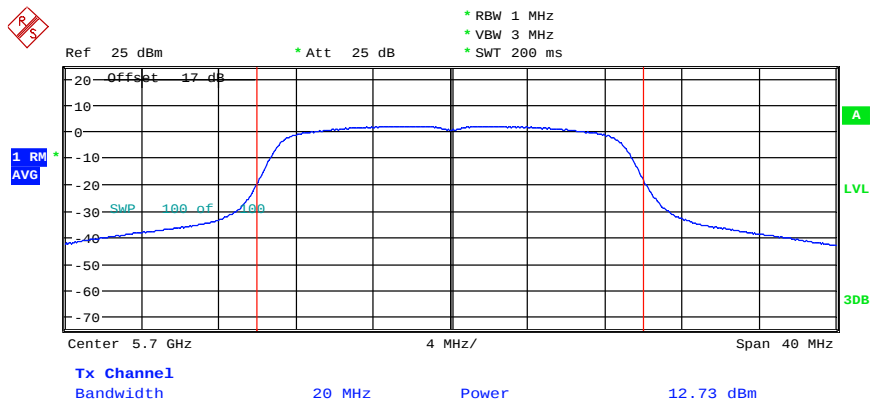
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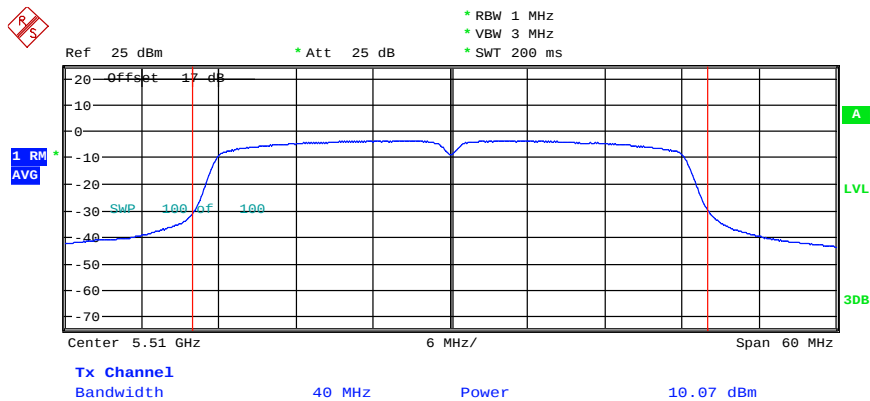
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FCC ID: YY3-182010



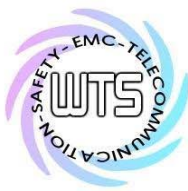
MAXIMUM CONDUCTED POWER ANT1_11ac20CH140

Date: 23.APR.2019 09:35:39

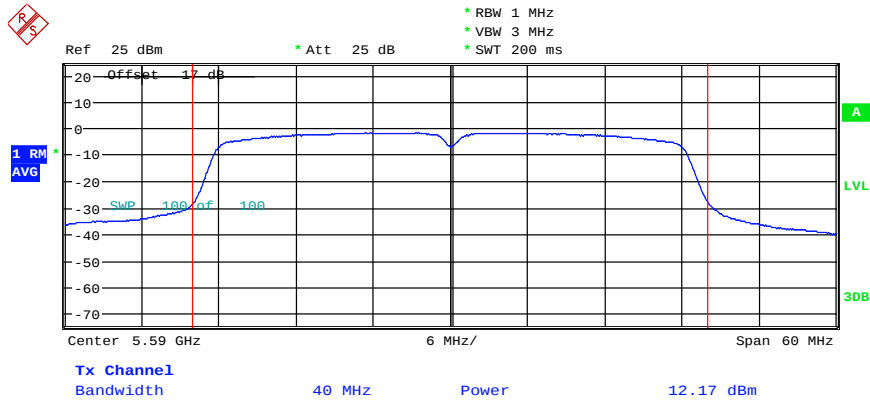


MAXIMUM CONDUCTED POWER ANT1_11ac40CH102

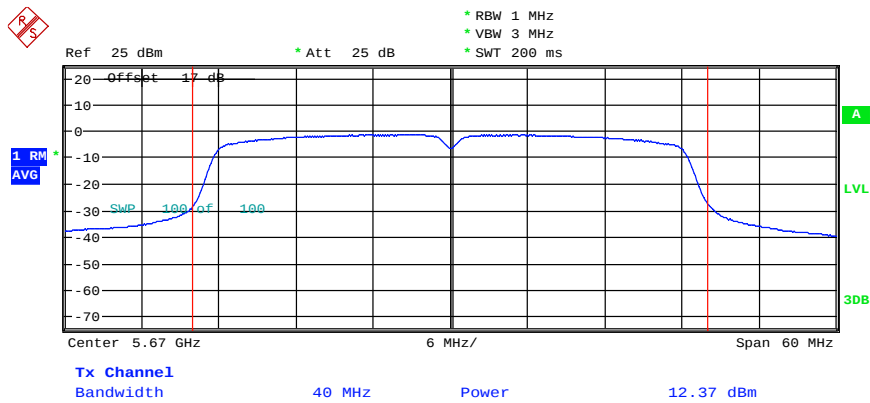
Date: 23.APR.2019 09:40:59



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11ac40CH118
Date: 23.APR.2019 09:44:19

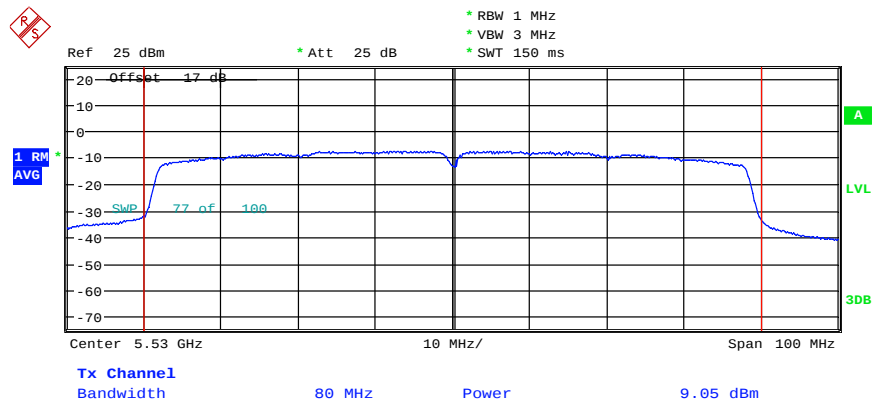


MAXIMUM CONDUCTED POWER ANT1_11ac40CH134
Date: 23.APR.2019 09:49:19



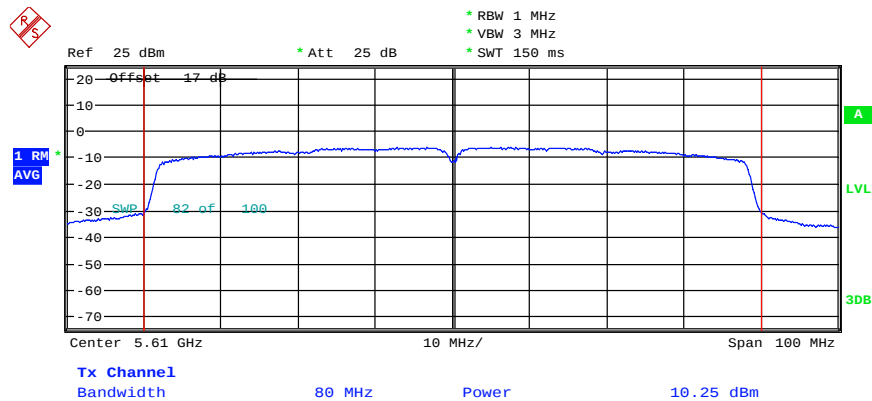
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11ac80CH106

Date: 22.APR.2019 15:18:56



MAXIMUM CONDUCTED POWER ANT1_11ac80CH122

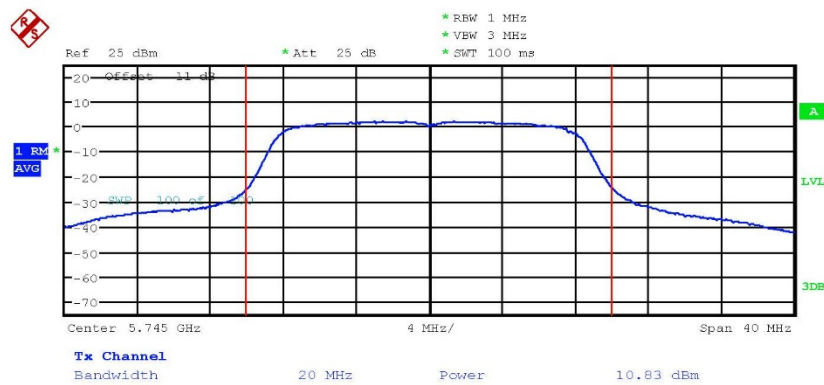
Date: 22.APR.2019 15:21:44



Registration number: W6M21903-18857-C-54

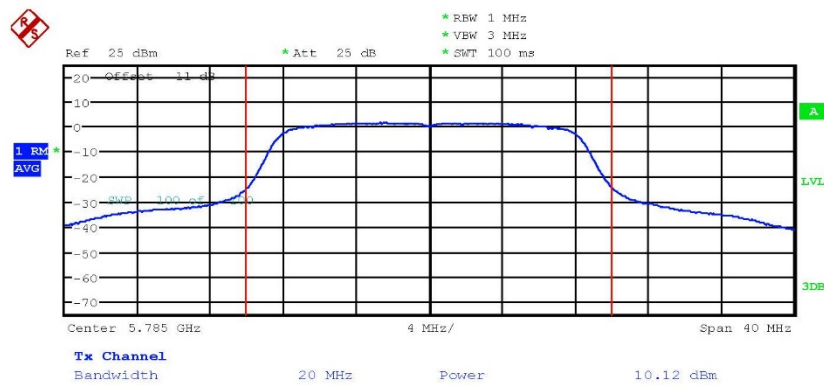
FCC ID: YY3-182010

5.725 GHz ~ 5.85 GHz



MAXIMUM CONDUCTED POWER ANTI_11aCH149

Date: 22.APR.2019 15:27:55



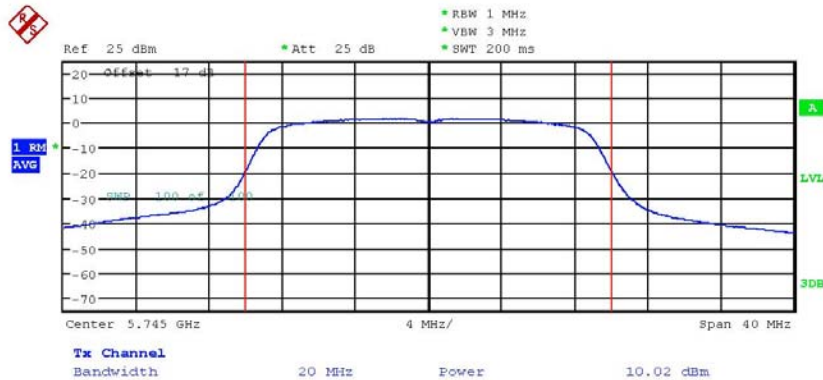
MAXIMUM CONDUCTED POWER ANTI_11aCH157

Date: 22.APR.2019 15:33:10

Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010

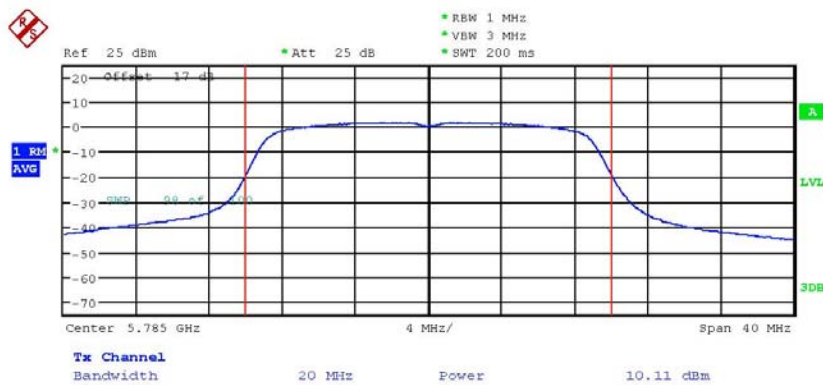


MAXIMUM CONDUCTED POWER ANT1_11aCH165
Date: 22.APR.2019 15:35:30

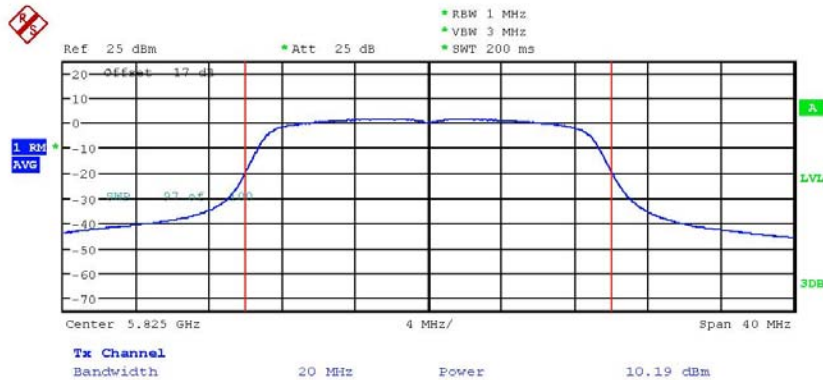


MAXIMUM CONDUCTED POWER ANT1_11ac20CH149
Date: 23.APR.2019 08:21:10

Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



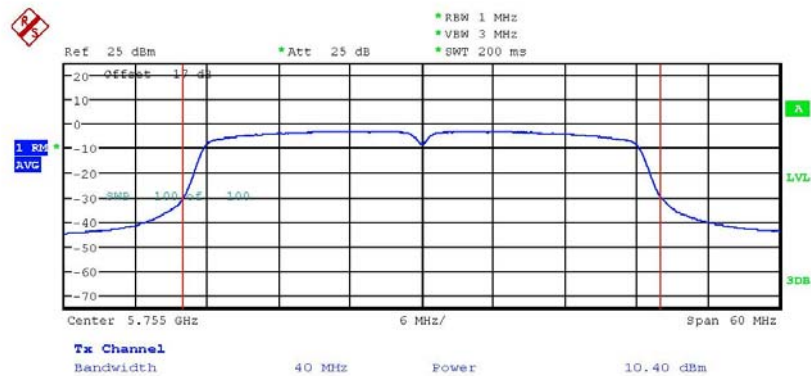
MAXIMUM CONDUCTED POWER ANT1_11ac20CH157
Date: 23.APR.2019 08:24:40



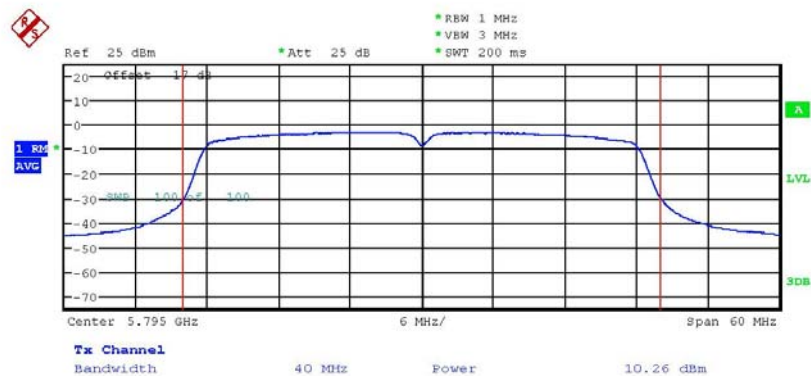
MAXIMUM CONDUCTED POWER ANT1_11ac20CH165
Date: 23.APR.2019 08:28:50



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010

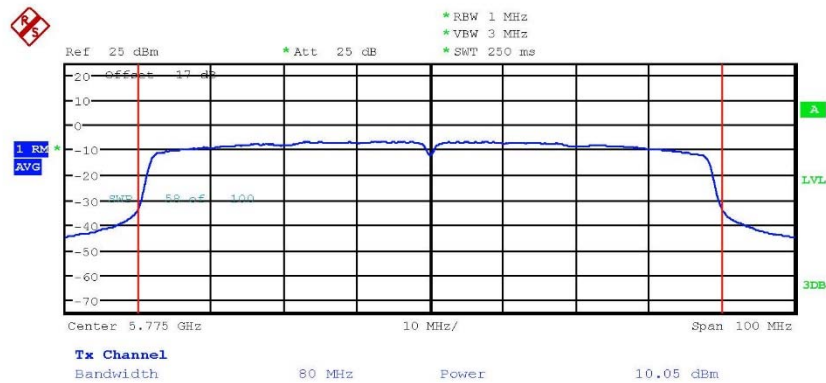


MAXIMUM CONDUCTED POWER ANT1_1lac40CH151
Date: 23.APR.2019 08:34:10



MAXIMUM CONDUCTED POWER ANT1_1lac40CH159
Date: 23.APR.2019 08:43:10

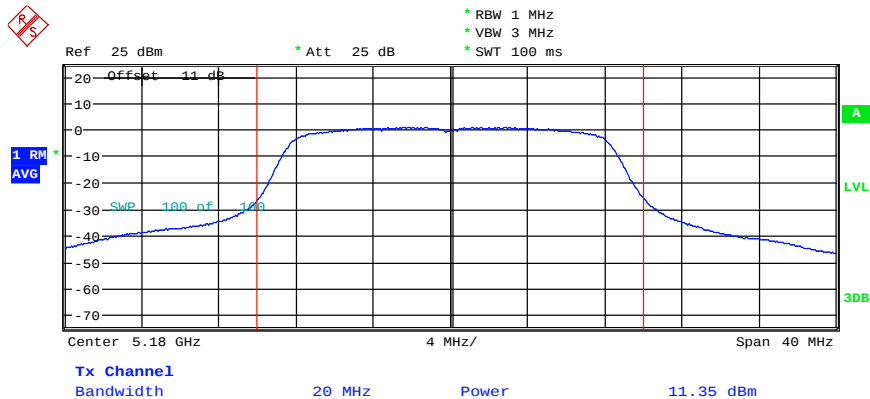
Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT1_11ac80CH155
Date: 23.APR.2019 08:47:50

ANTB

5.15 GHz ~ 5.25 GHz

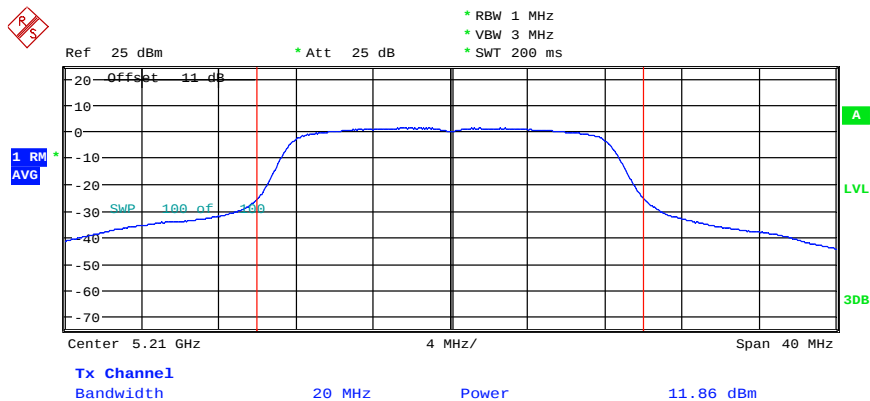


MAXIMUM CONDUCTED POWER ANT2_11aCH36
Date: 22.APR.2019 09:36:23



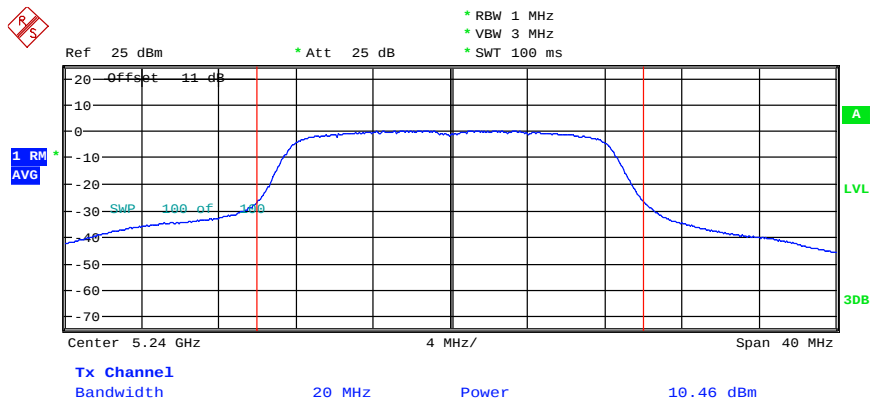
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



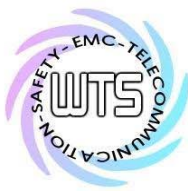
MAXIMUM CONDUCTED POWER ANT2_11aCH44

Date: 3.JUN.2019 09:24:13



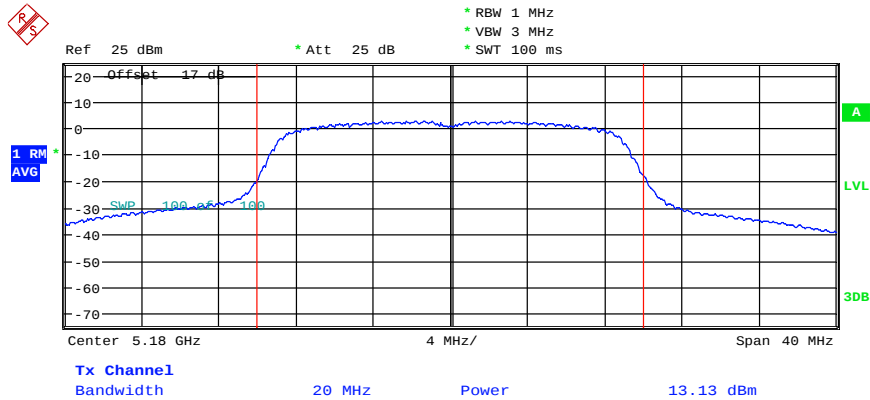
MAXIMUM CONDUCTED POWER ANT2_11aCH48

Date: 22.APR.2019 10:56:25



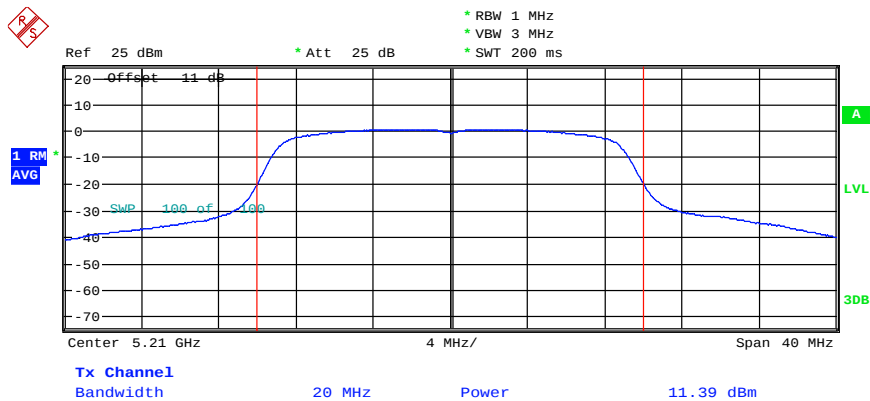
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH36

Date: 22.APR.2019 11:50:47



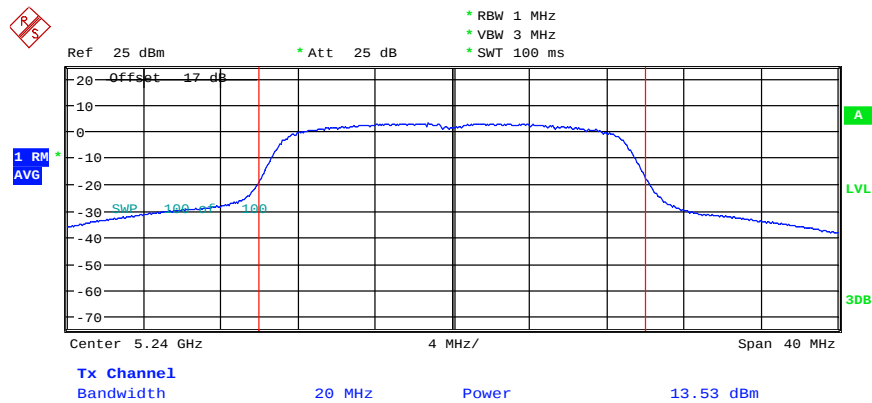
MAXIMUM CONDUCTED POWER ANT2_11ac20CH44

Date: 3.JUN.2019 09:44:53



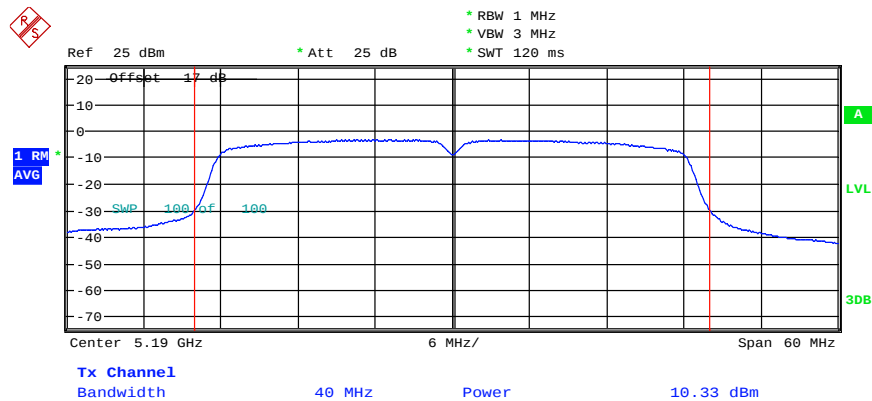
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH48

Date: 22.APR.2019 12:00:00



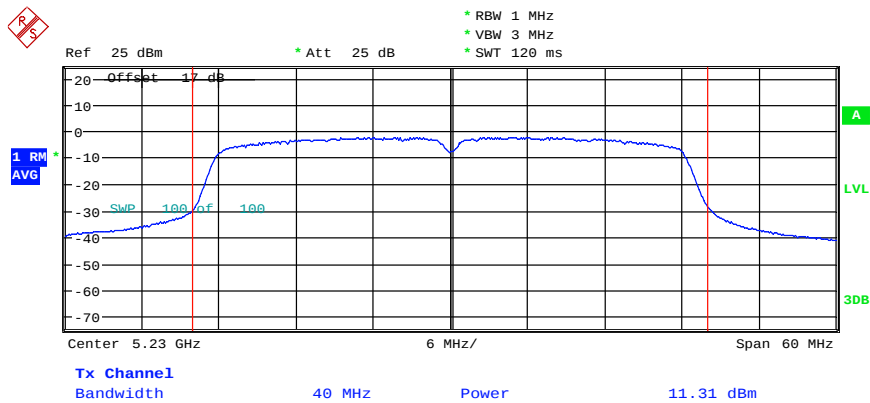
MAXIMUM CONDUCTED POWER ANT2_11ac40CH38

Date: 22.APR.2019 13:25:53



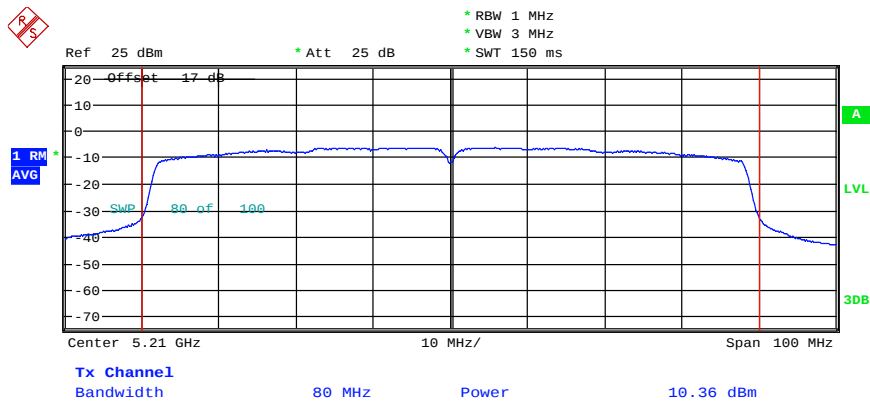
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac40CH46

Date: 22.APR.2019 13:31:22



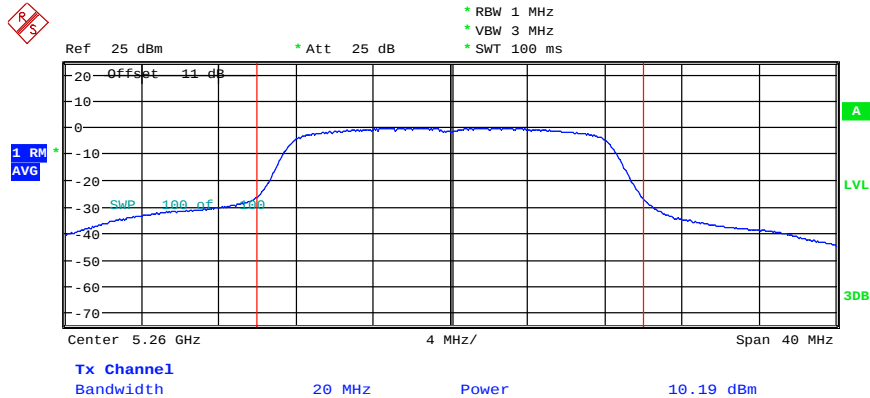
MAXIMUM CONDUCTED POWER ANT2_11ac80CH42

Date: 22.APR.2019 13:44:33

Registration number: W6M21903-18857-C-54

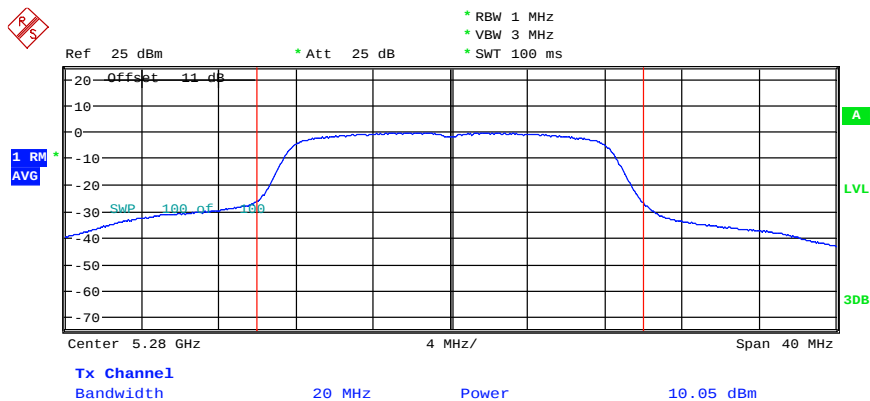
FCC ID: YY3-182010

5.25 GHz ~ 5.35 GHz



MAXIMUM CONDUCTED POWER ANT2_11aCH52

Date: 22.APR.2019 11:01:40



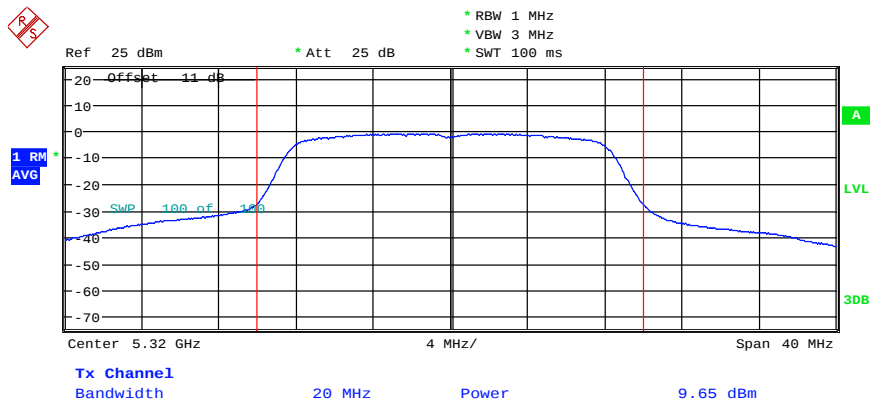
MAXIMUM CONDUCTED POWER ANT2_11aCH56

Date: 22.APR.2019 11:05:45



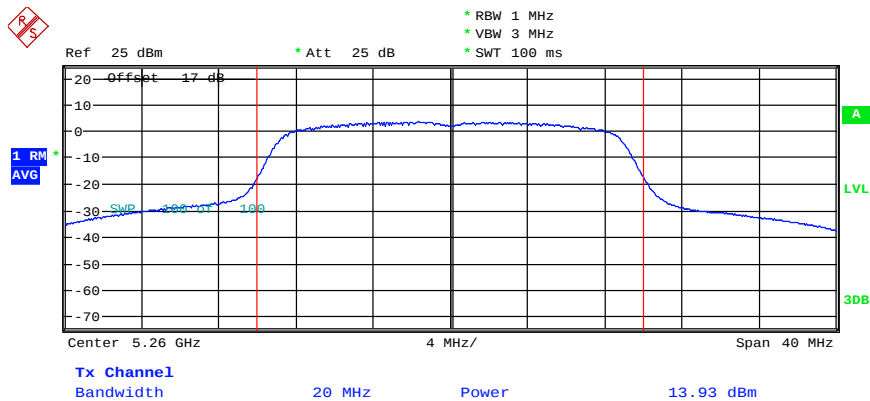
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11aCH64

Date: 22.APR.2019 11:09:15



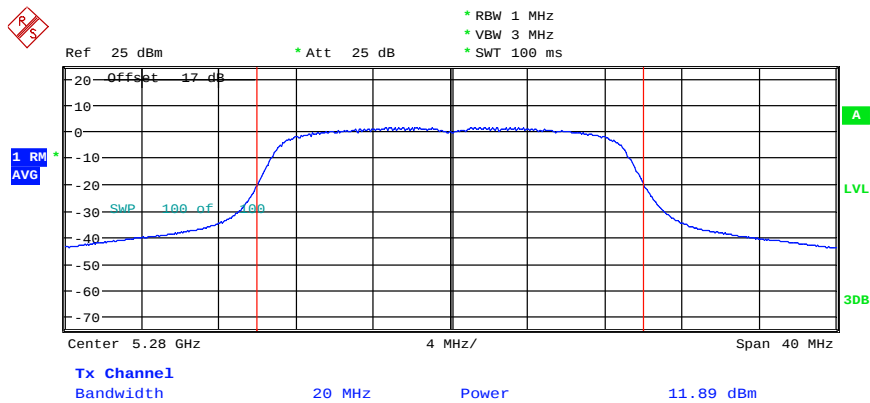
MAXIMUM CONDUCTED POWER ANT2_11ac20CH52

Date: 22.APR.2019 13:10:50



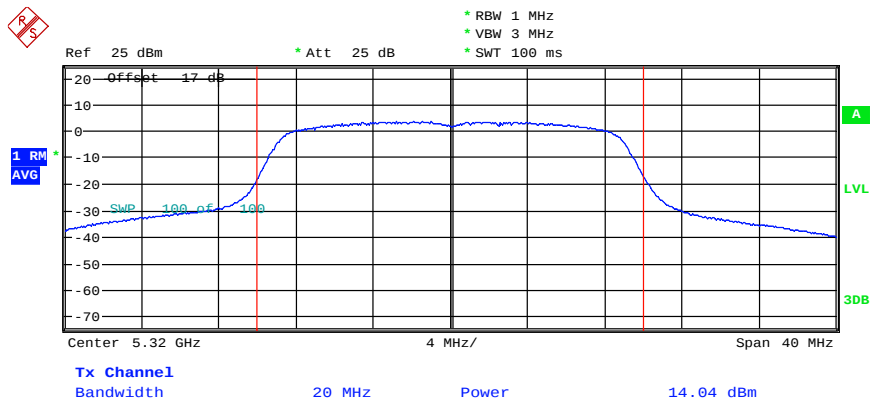
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH56

Date: 22.APR.2019 13:14:34



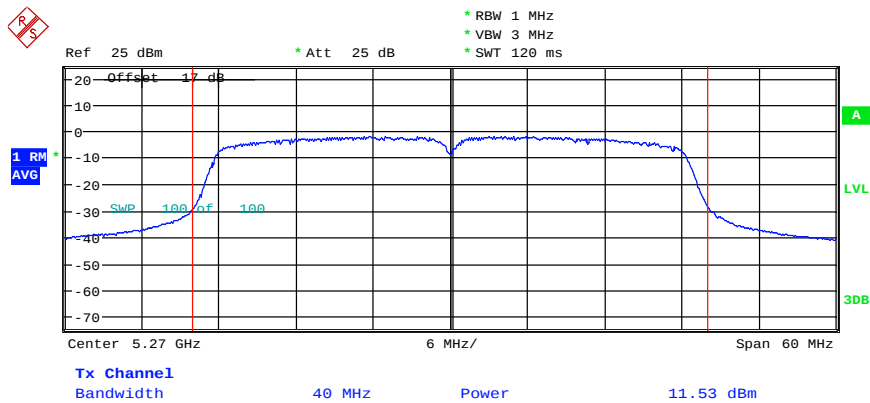
MAXIMUM CONDUCTED POWER ANT2_11ac20CH64

Date: 22.APR.2019 13:19:42



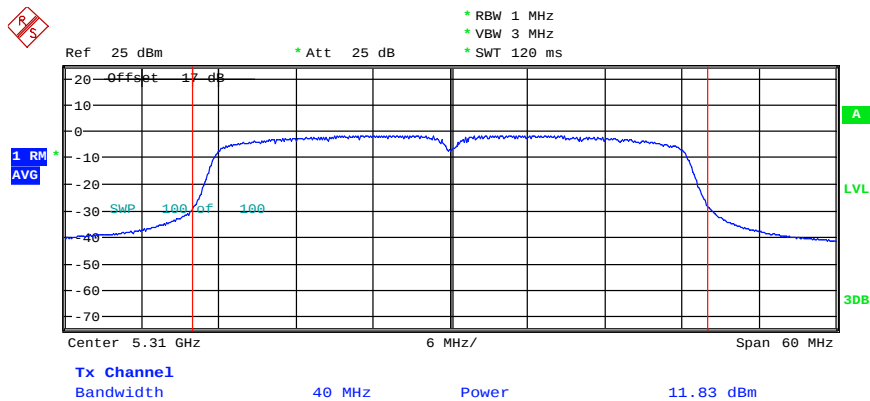
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac40CH54

Date: 22.APR.2019 13:35:20



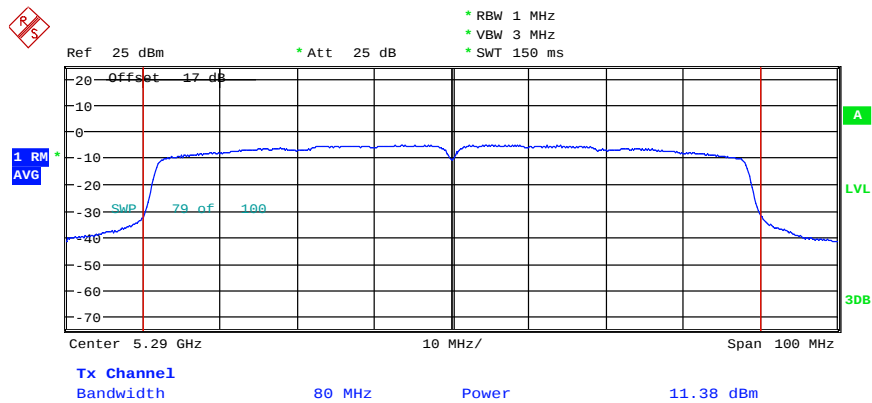
MAXIMUM CONDUCTED POWER ANT2_11ac40CH62

Date: 22.APR.2019 13:38:57



Registration number: W6M21903-18857-C-54

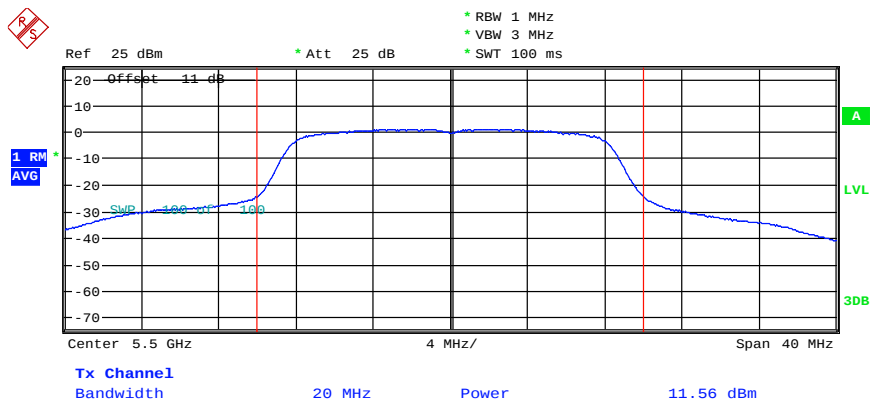
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac80CH58

Date: 22.APR.2019 13:46:39

5.47 GHz ~ 5.725 GHz



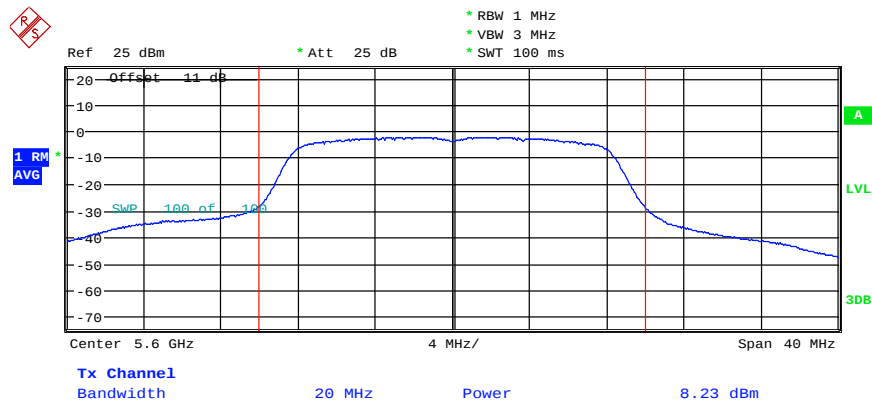
MAXIMUM CONDUCTED POWER ANT2_11aCH100

Date: 22.APR.2019 14:08:35



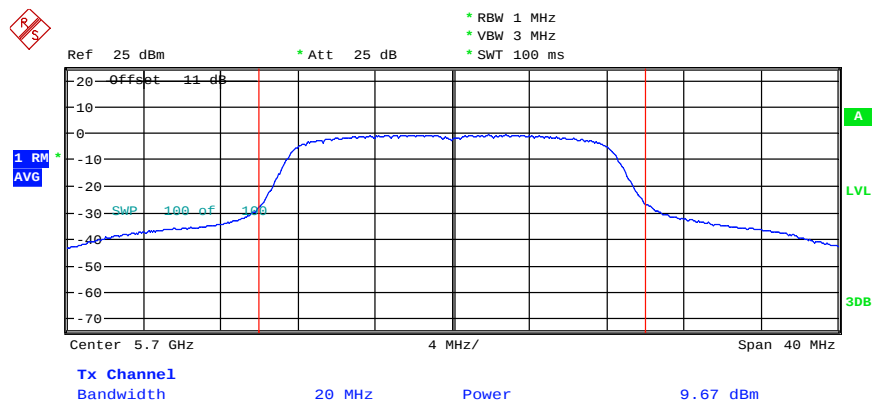
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11aCH120

Date: 22.APR.2019 14:16:03



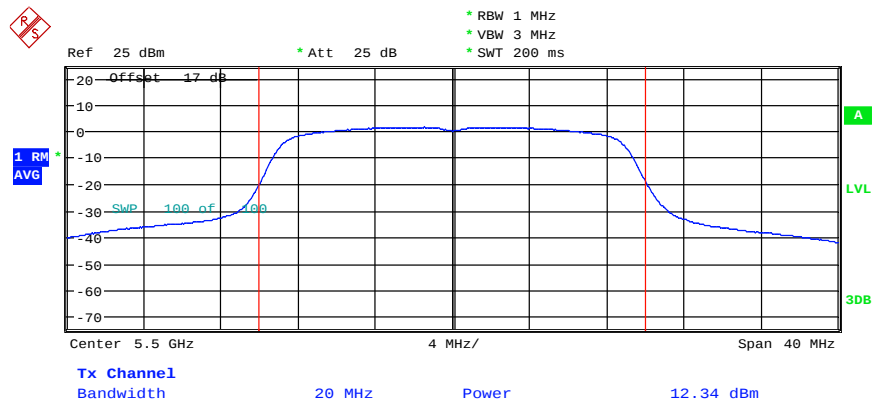
MAXIMUM CONDUCTED POWER ANT2_11aCH140

Date: 22.APR.2019 14:18:44



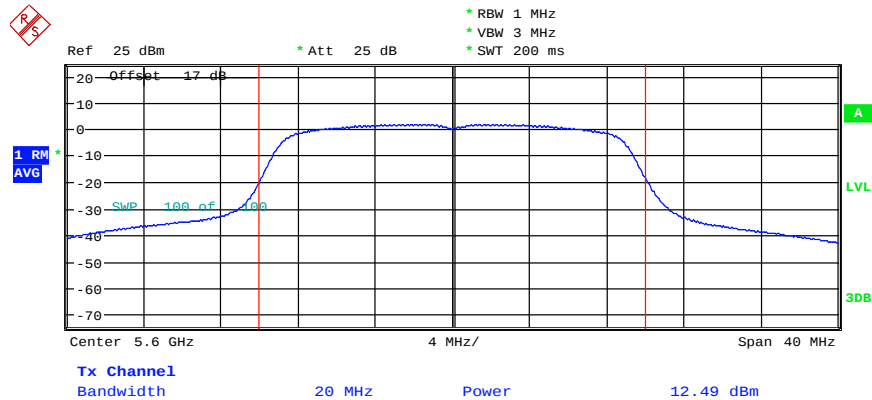
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH100

Date: 23.APR.2019 09:25:59



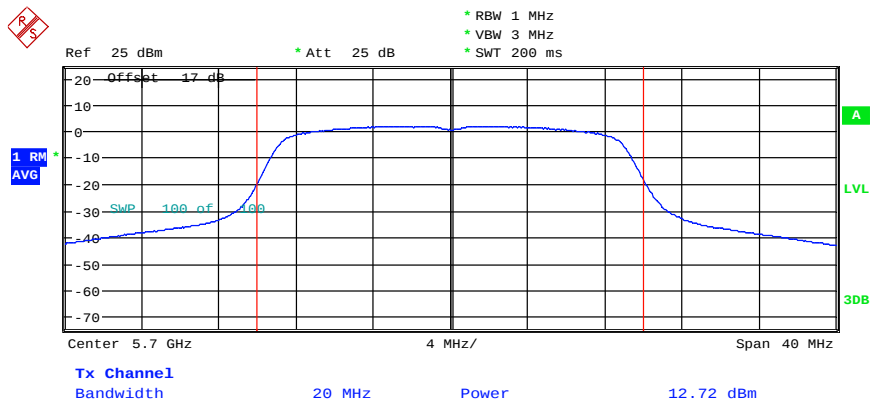
MAXIMUM CONDUCTED POWER ANT2_11ac20CH120

Date: 23.APR.2019 09:31:29



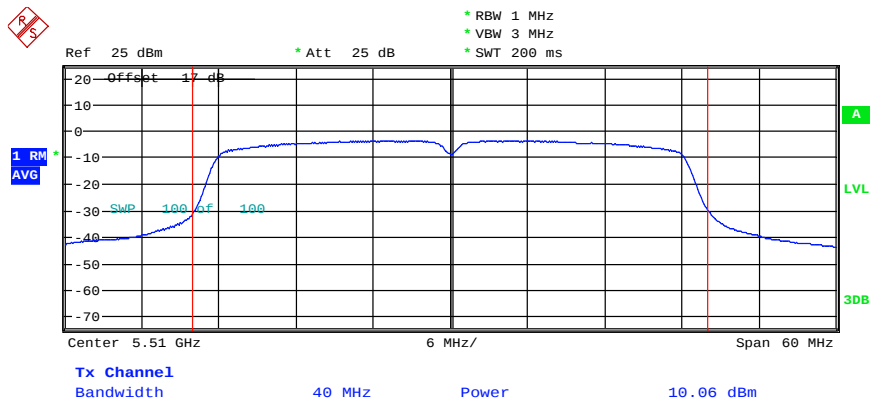
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH140

Date: 23.APR.2019 09:37:29



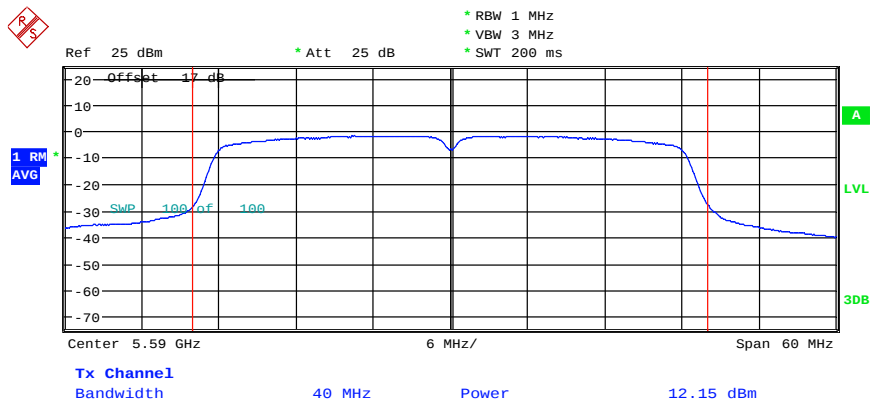
MAXIMUM CONDUCTED POWER ANT2_11ac40CH102

Date: 23.APR.2019 09:42:19



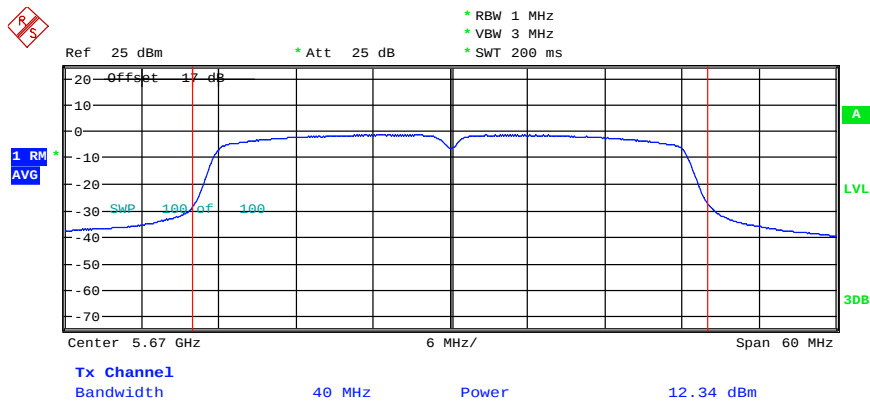
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac40CH118

Date: 23.APR.2019 09:45:39



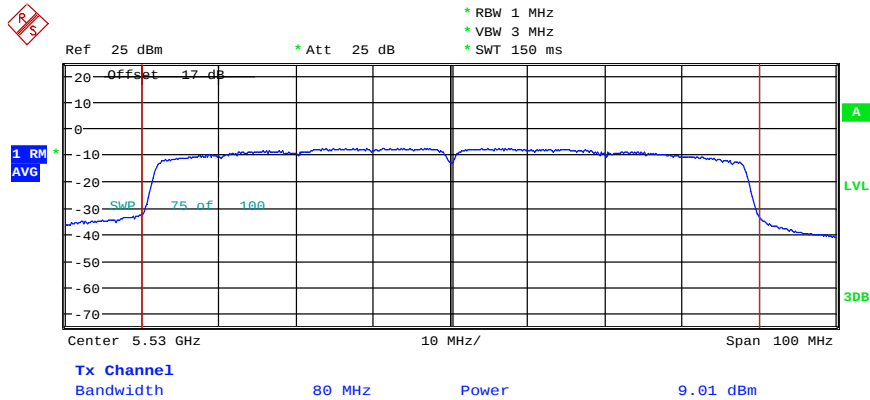
MAXIMUM CONDUCTED POWER ANT2_11ac40CH134

Date: 23.APR.2019 09:47:49



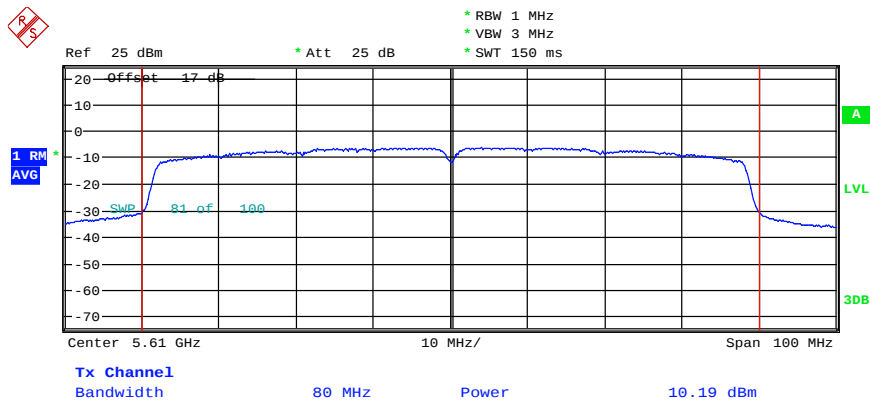
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac80CH106

Date: 22.APR.2019 15:16:08



MAXIMUM CONDUCTED POWER ANT2_11ac80CH122

Date: 22.APR.2019 15:23:01



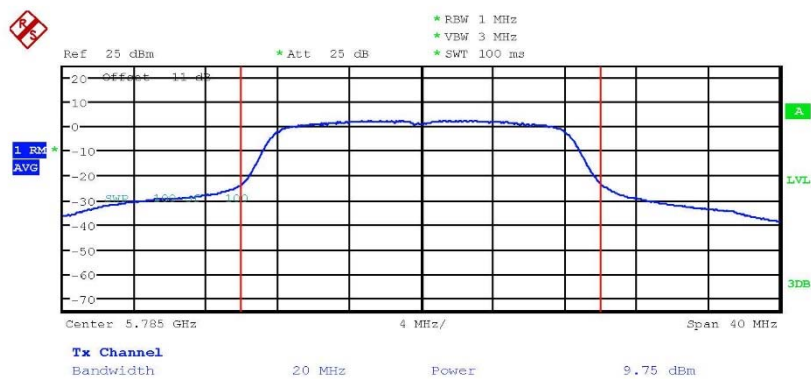
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

5.725 GHz ~ 5.85 GHz



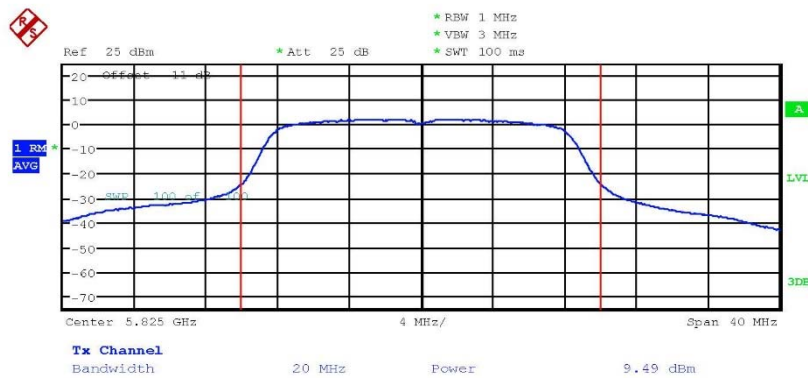
MAXIMUM CONDUCTED POWER ANT2_11aCH149
Date: 22.APR.2019 15:29:40



MAXIMUM CONDUCTED POWER ANT2_11aCH157
Date: 22.APR.2019 15:31:18



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11aCH165
Date: 22.APR.2019 15:36:54



MAXIMUM CONDUCTED POWER ANT2_11ac20CH149
Date: 23.APR.2019 08:22:40



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac20CH157
Date: 23.APR.2019 08:26:00

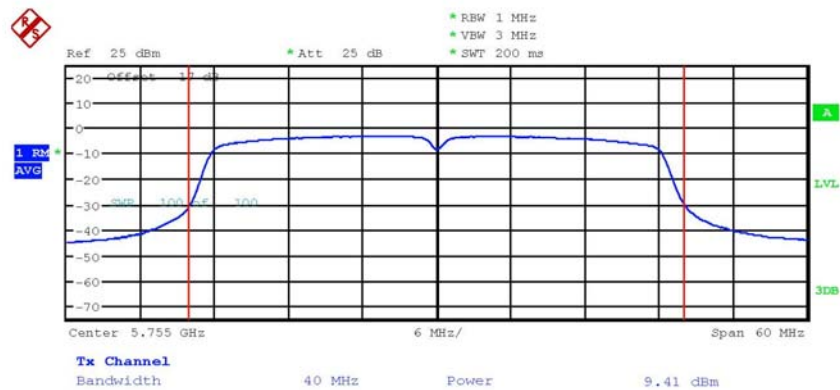


MAXIMUM CONDUCTED POWER ANT2_11ac20CH165
Date: 23.APR.2019 08:30:10



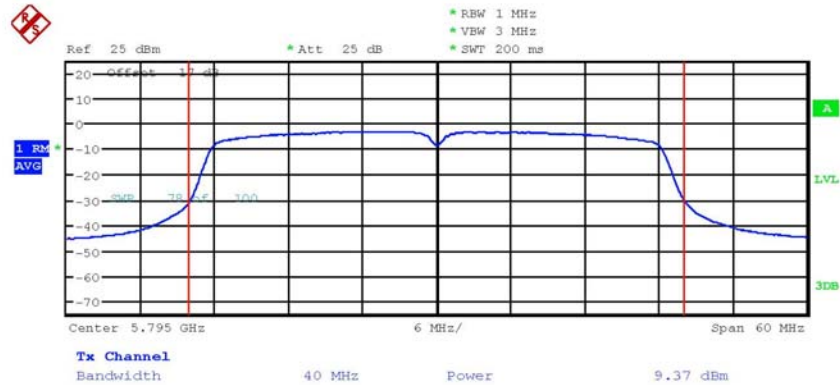
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac40CH151

Date: 23.APR.2019 08:40:50



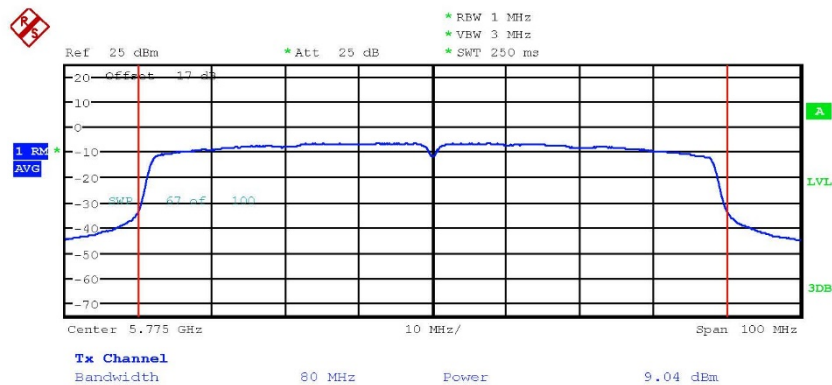
MAXIMUM CONDUCTED POWER ANT2_11ac40CH159

Date: 23.APR.2019 08:44:30



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



MAXIMUM CONDUCTED POWER ANT2_11ac80CH155
Date: 23.APR.2019 09:02:20

5.15GHz~5.25GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	19.77	15.67	22.54	12.96	11.95	13.53
802.11n 40MHz	10.81	--	13.74	10.34	--	11.38
802.11ac	10.81	--	--	10.34	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	20.56	13.77	22.54	13.13	11.39	13.53
802.11n 40MHz	10.79	--	13.52	10.33	--	11.31
802.11ac	10.86	--	--	10.36	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	40.33	29.44	45.08	16.06	14.69	16.54
802.11n 40MHz	21.6	--	27.26	13.34	--	14.36
802.11ac	21.67	--	--	13.36	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

5.25GHz~5.35GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	25.64	15.81	25.70	14.09	11.99	14.10
802.11n 40MHz	14.29	--	15.17	11.55	--	11.81
802.11ac	13.87	--	--	11.42	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	24.72	15.45	25.35	13.93	11.89	14.04
802.11n 40MHz	14.22	--	15.24	11.53	--	11.83
802.11ac	13.74	--	--	11.38	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	50.36	31.26	51.05	17.02	14.95	17.08
802.11n 40MHz	28.51	--	30.41	14.55	--	14.83
802.11ac	27.61	--	--	14.41	--	--

5.47GHz~5.725GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	17.34	17.58	18.75	12.39	12.45	12.73
802.11n 40MHz	10.16	16.48	17.26	10.07	12.17	12.37
802.11ac	8.04	--	10.59	9.05	--	10.25
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	17.14	17.74	18.71	12.34	12.49	12.72
802.11n 40MHz	10.14	16.41	17.14	10.06	12.15	12.34
802.11ac	7.96	--	10.45	9.01	--	10.19
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	34.48	35.32	37.46	15.38	15.48	15.74
802.11n 40MHz	20.3	32.89	34.4	13.07	15.17	15.37
802.11ac	16.00	--	21.04	12.04	--	13.23



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

5.725GHz~5.85GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	10.05	10.26	10.45	10.02	10.11	10.19
802.11n 40MHz	10.96	--	10.62	10.40	--	10.26
802.11ac	10.12	--	--	10.05	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	8.75	8.63	8.24	9.42	9.36	9.16
802.11n 40MHz	8.73	--	8.65	9.41	--	9.37
802.11ac	8.02	--	--	9.04	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	18.80	18.89	18.69	12.74	12.76	12.72
802.11n 40MHz	19.69	--	19.27	12.94	--	12.85
802.11ac	18.14	--	--	12.59	--	--

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

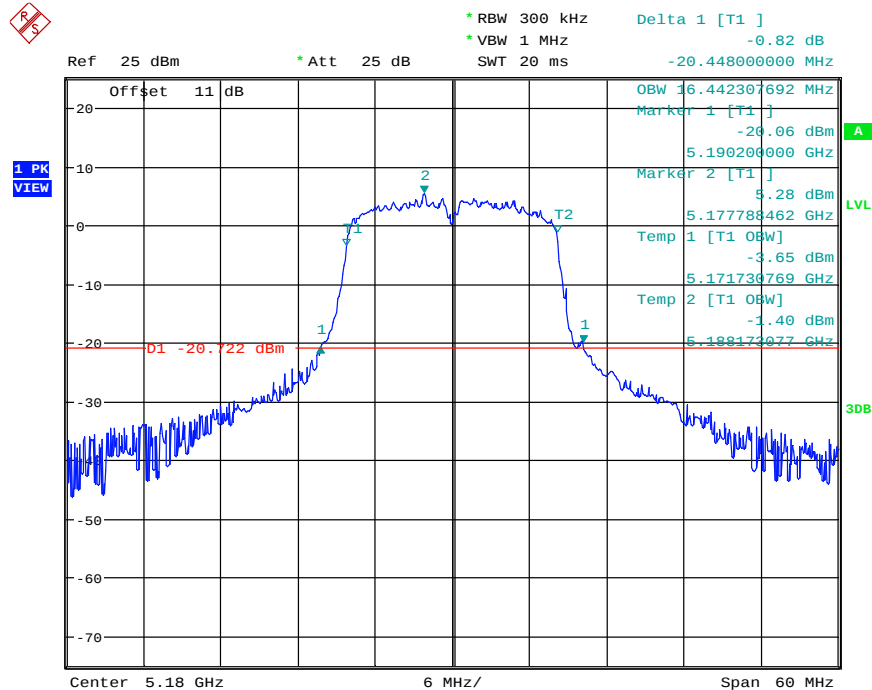
3.2 26dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407(a). No Limit required.

Result:

ANTA

5.15 GHz ~ 5.25 GHz



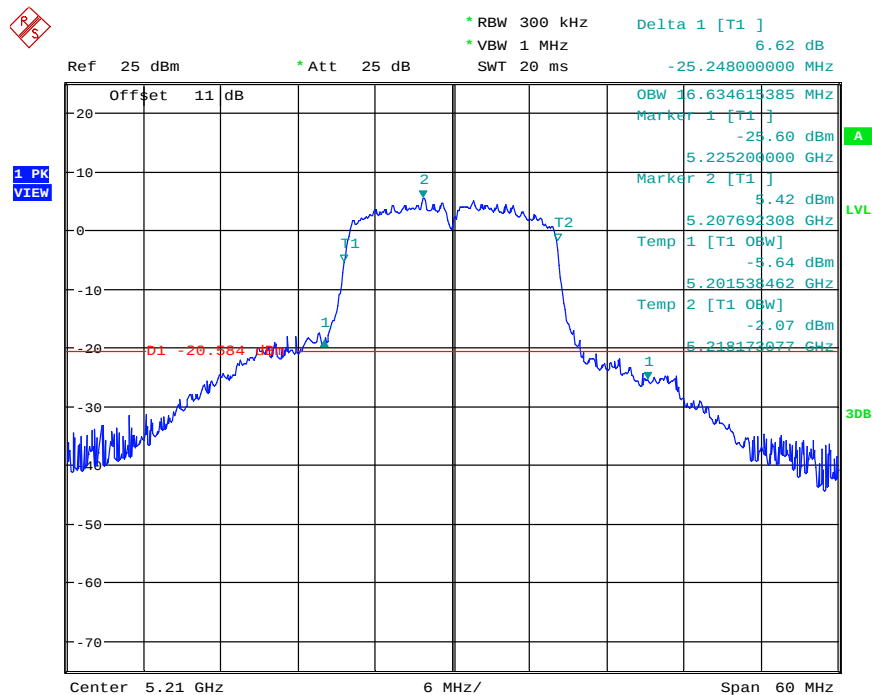
99% OBW & 26DB BANDWIDTH ANT1_11a_CH36

Date: 22.APR.2019 10:35:30



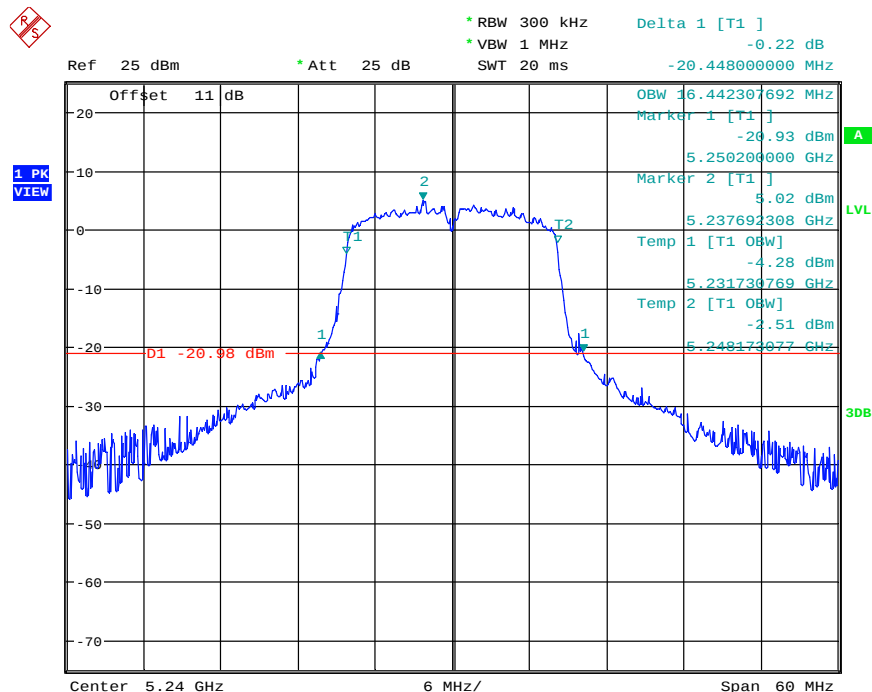
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11a_CH44

Date: 3.JUN.2019 09:21:05

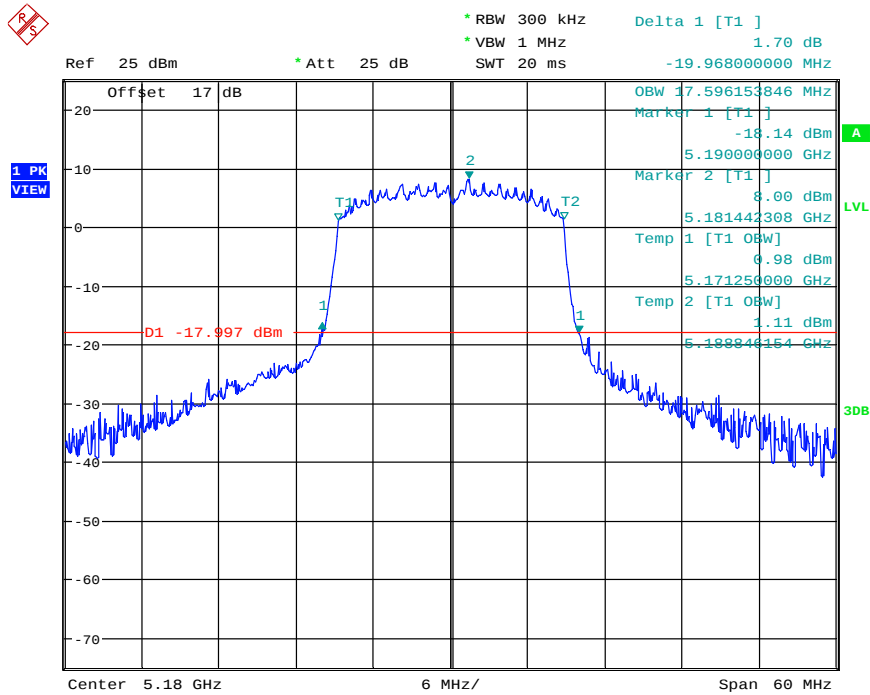


99% OBW & 26DB BANDWIDTH ANT1_11a_CH48

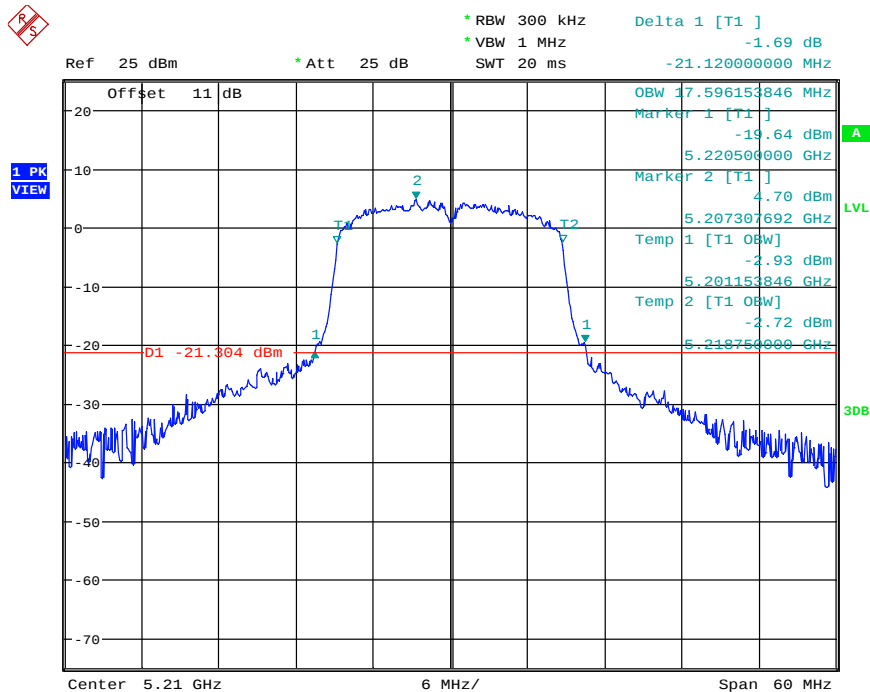
Date: 22.APR.2019 10:59:09



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH36
Date: 22.APR.2019 11:50:02

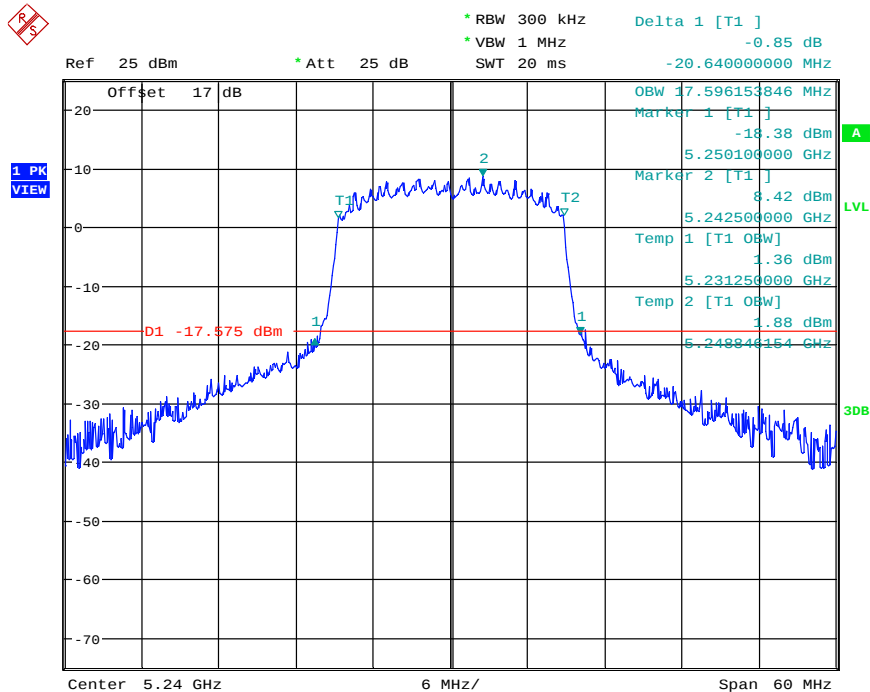


99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH44
Date: 3.JUN.2019 09:43:49



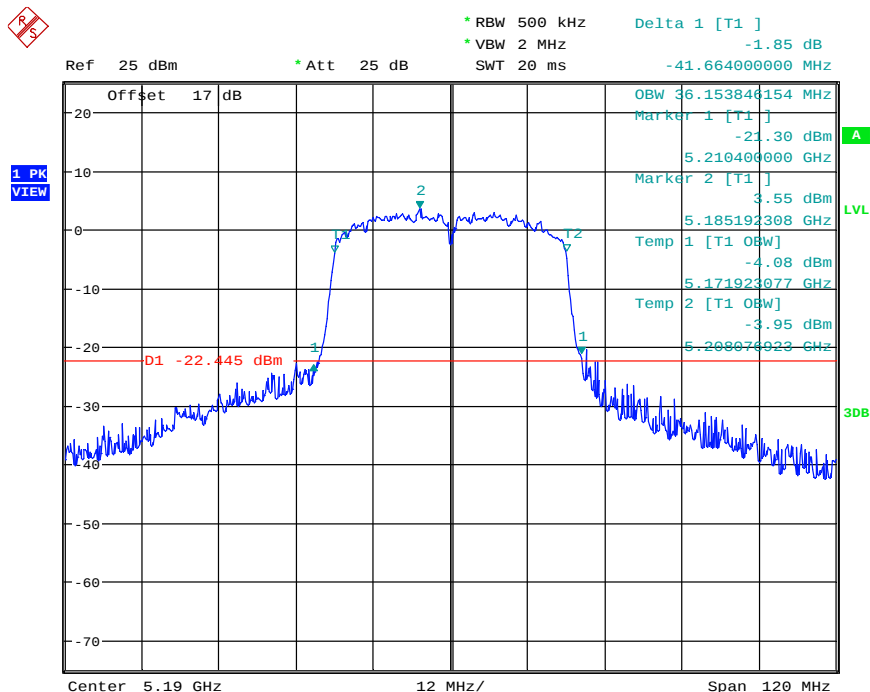
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH48

Date: 22.APR.2019 11:59:28



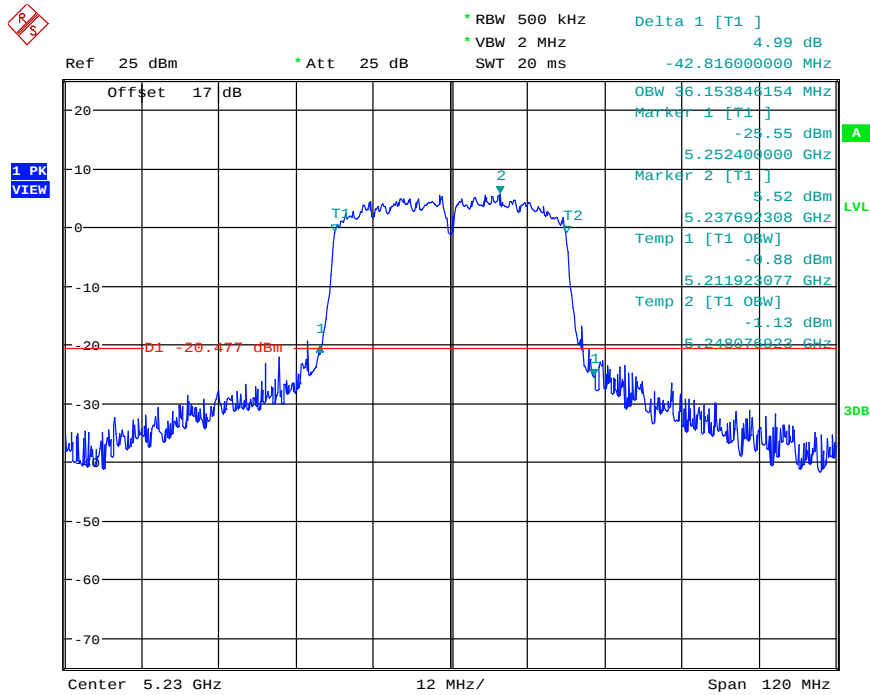
99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH38

Date: 22.APR.2019 13:25:00



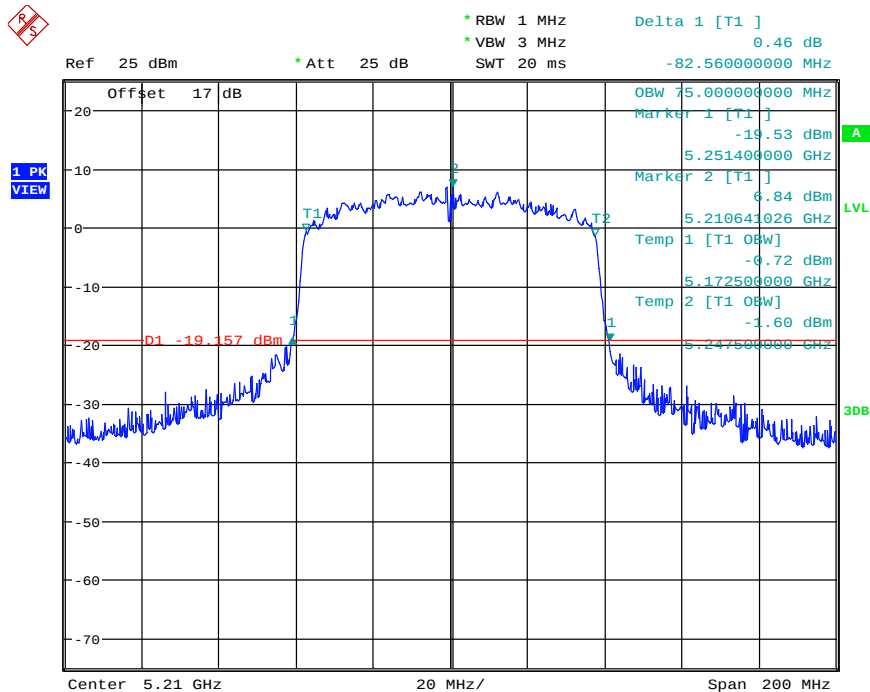
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH46

Date: 22.APR.2019 13:30:52



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH42

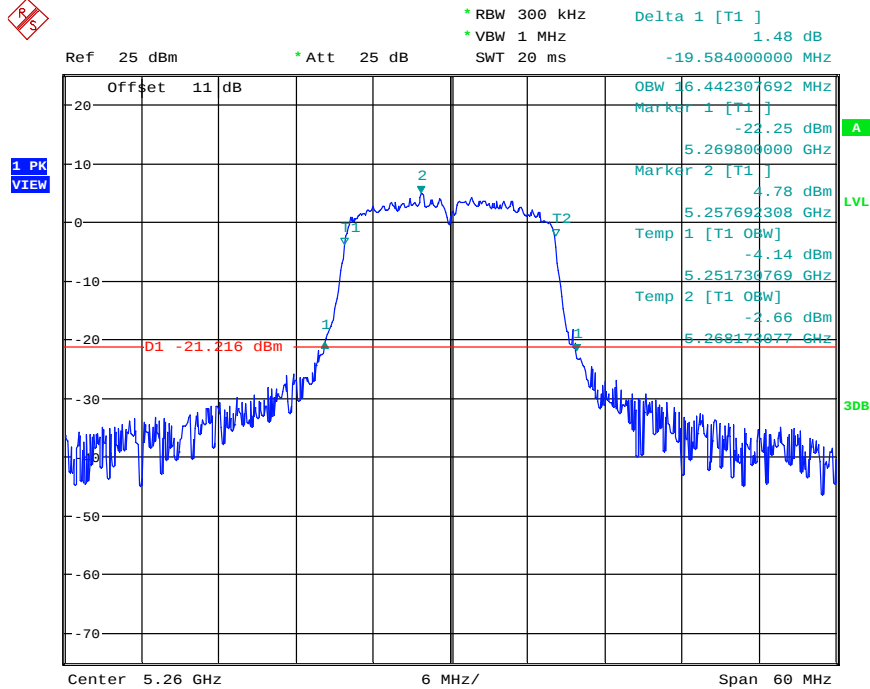
Date: 22.APR.2019 13:43:37



Registration number: W6M21903-18857-C-54

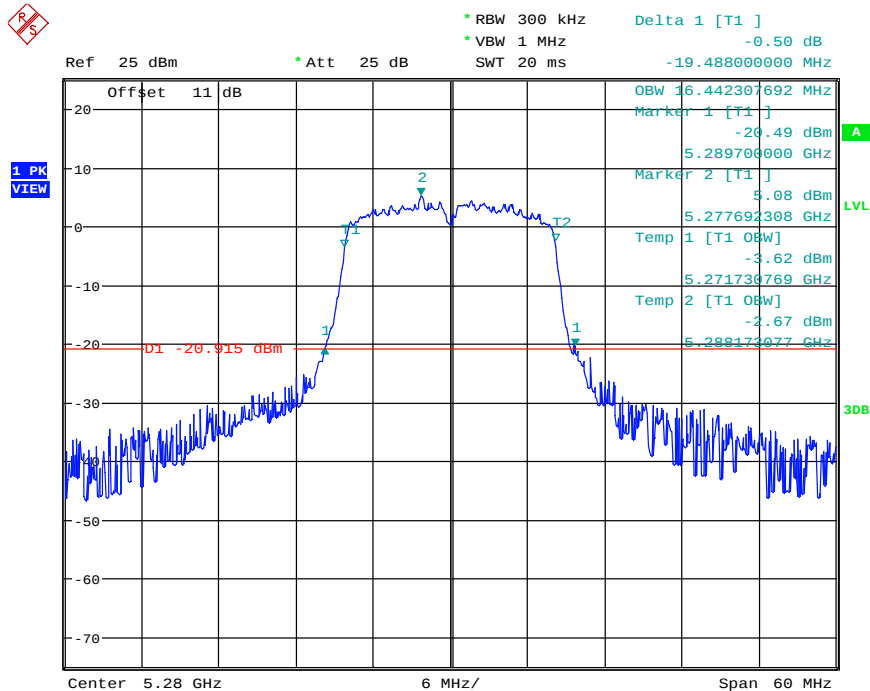
FCC ID: YY3-182010

5.25 GHz ~ 5.35 GHz



99% OBW & 26DB BANDWIDTH ANT1_11a_CH52

Date: 22.APR.2019 11:00:59

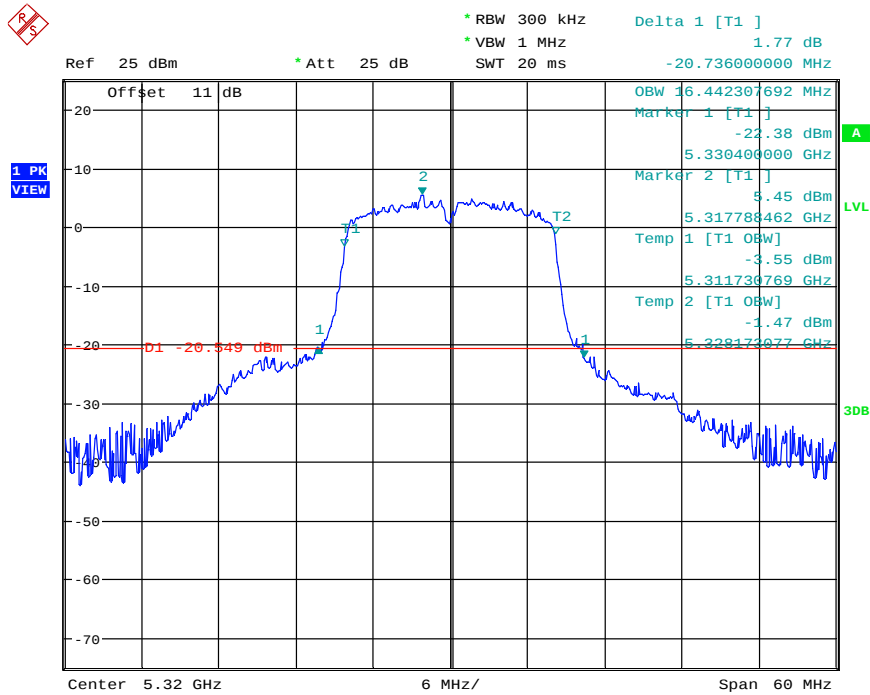


99% OBW & 26DB BANDWIDTH ANT1_11a_CH56

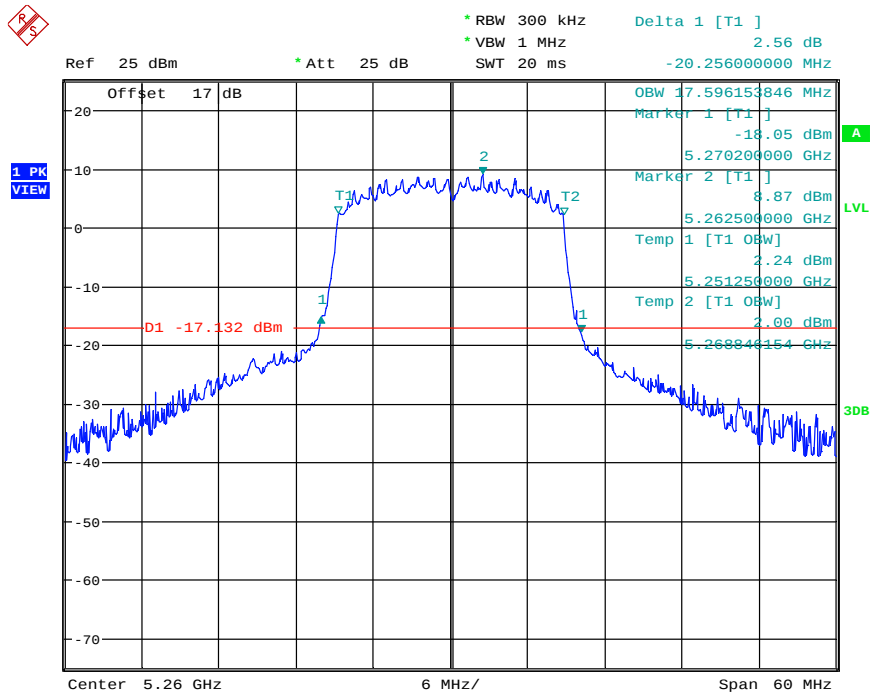
Date: 22.APR.2019 11:04:50



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11a_CH64
Date: 22.APR.2019 11:08:14

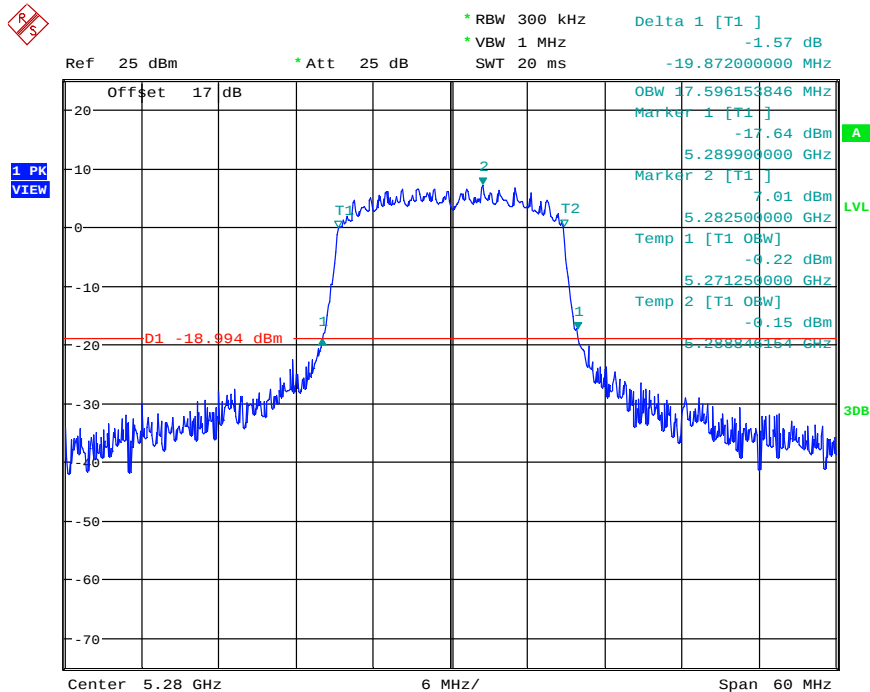


99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH52
Date: 22.APR.2019 13:10:26



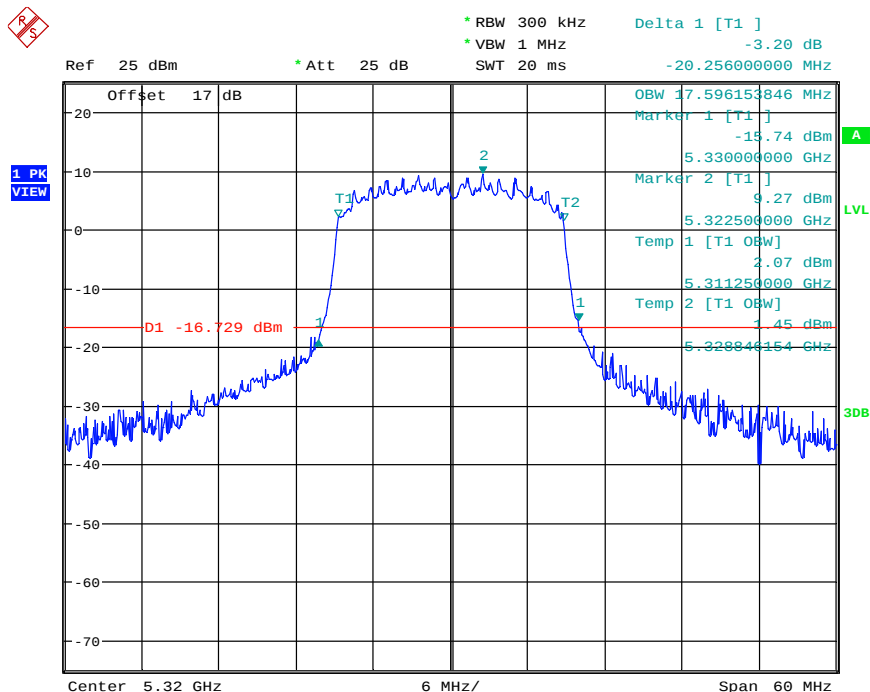
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH56

Date: 22.APR.2019 13:13:55

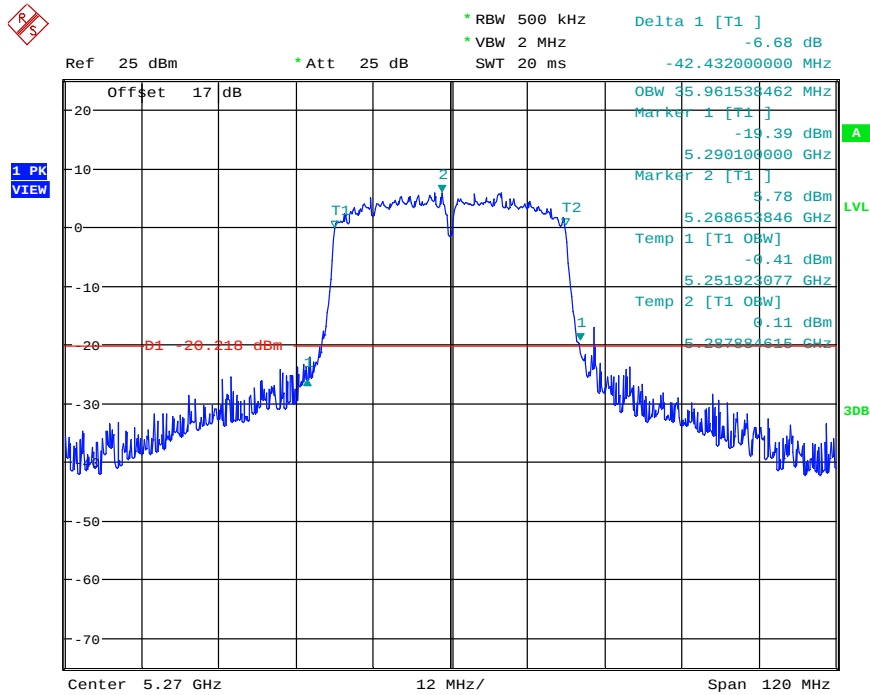


99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH64

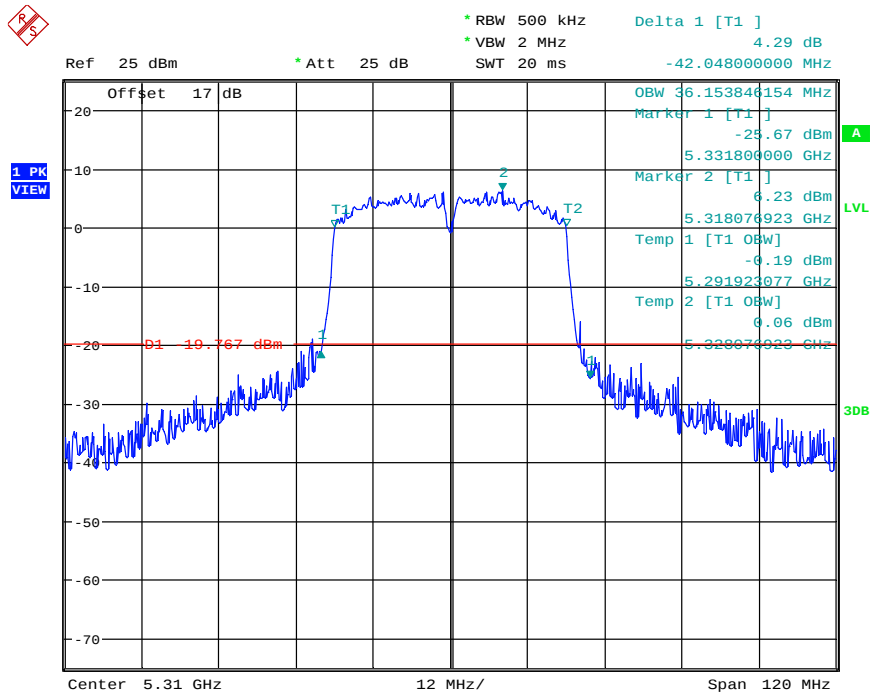
Date: 22.APR.2019 13:18:08



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010

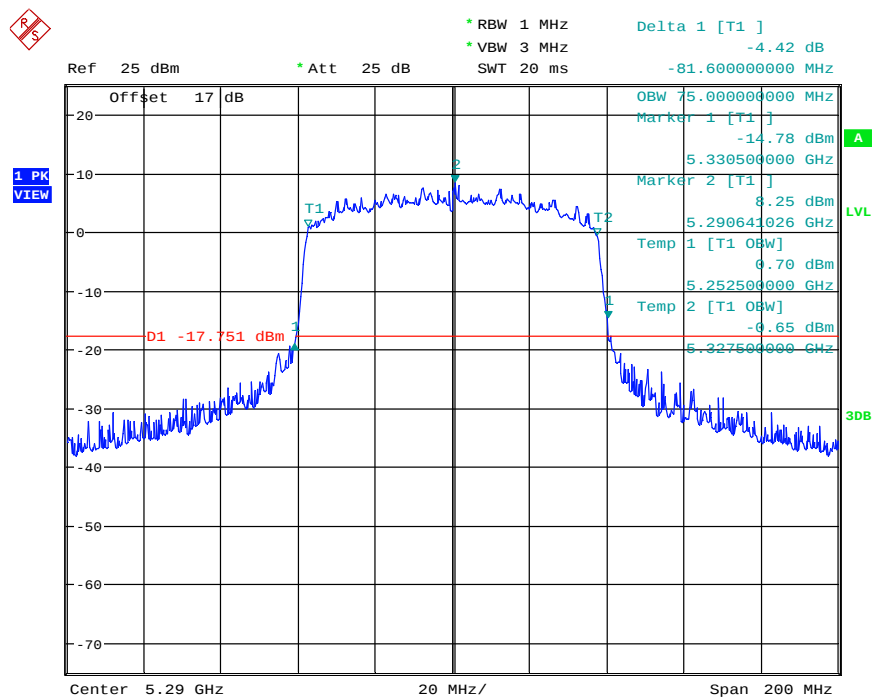


99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH54
Date: 22.APR.2019 13:34:49



99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH62
Date: 22.APR.2019 13:38:29

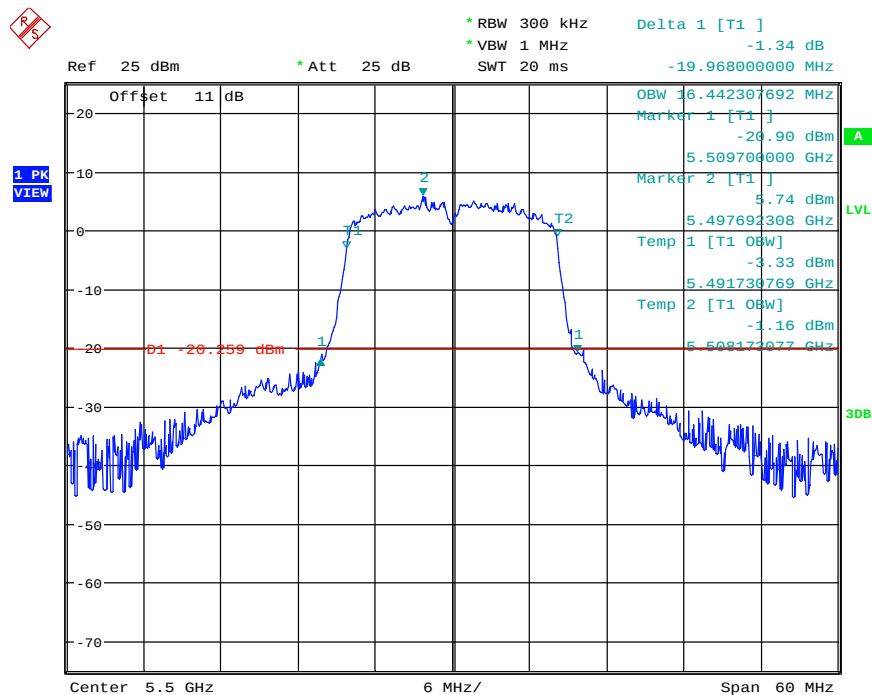
Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH58

Date: 22.APR.2019 13:49:40

5.47 GHz ~ 5.725 GHz



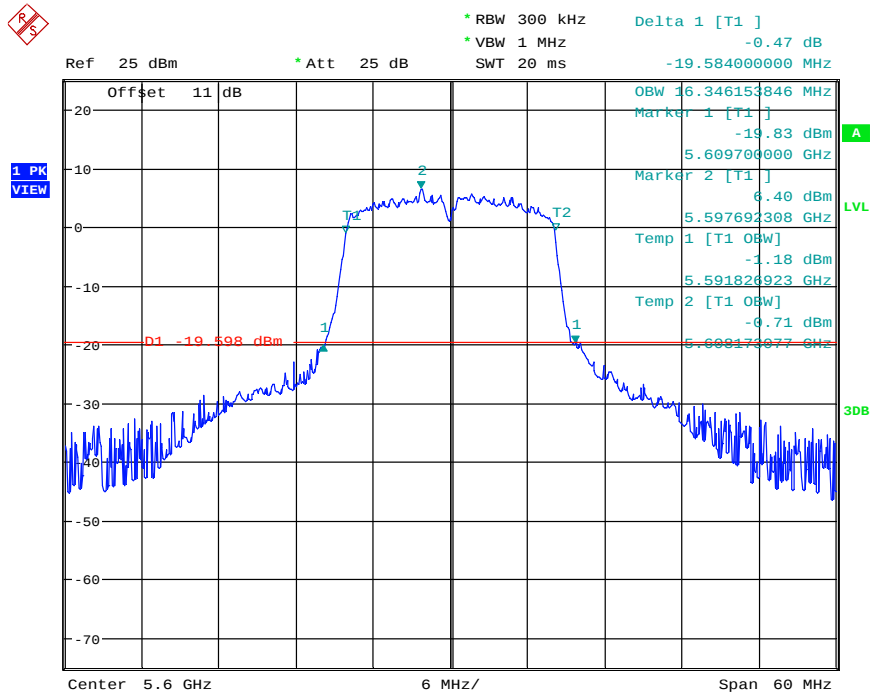
99% OBW & 26DB BANDWIDTH ANT1_11a_CH100

Date: 22.APR.2019 14:06:32



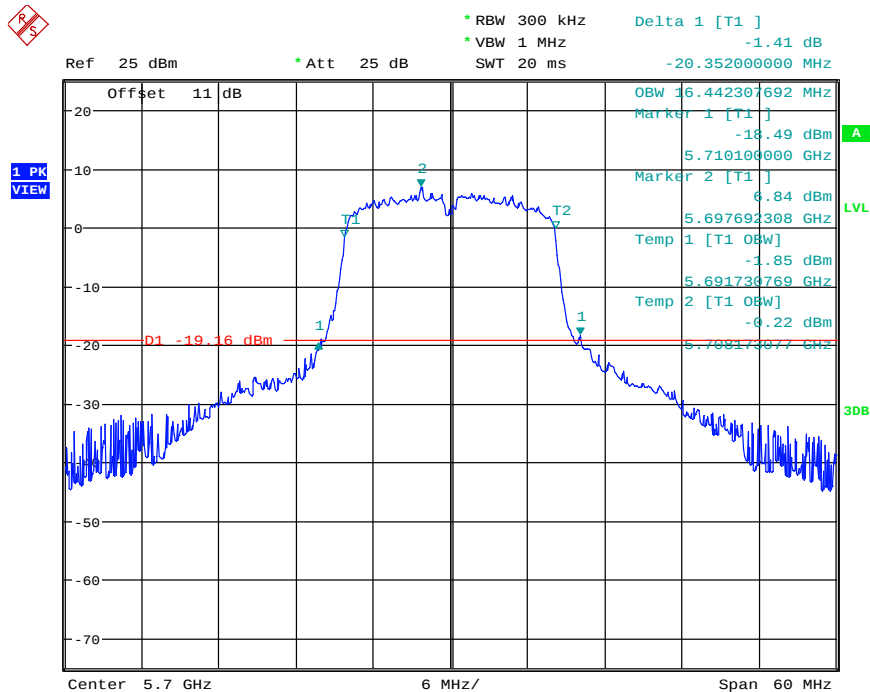
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11a_CH120

Date: 22.APR.2019 14:11:29

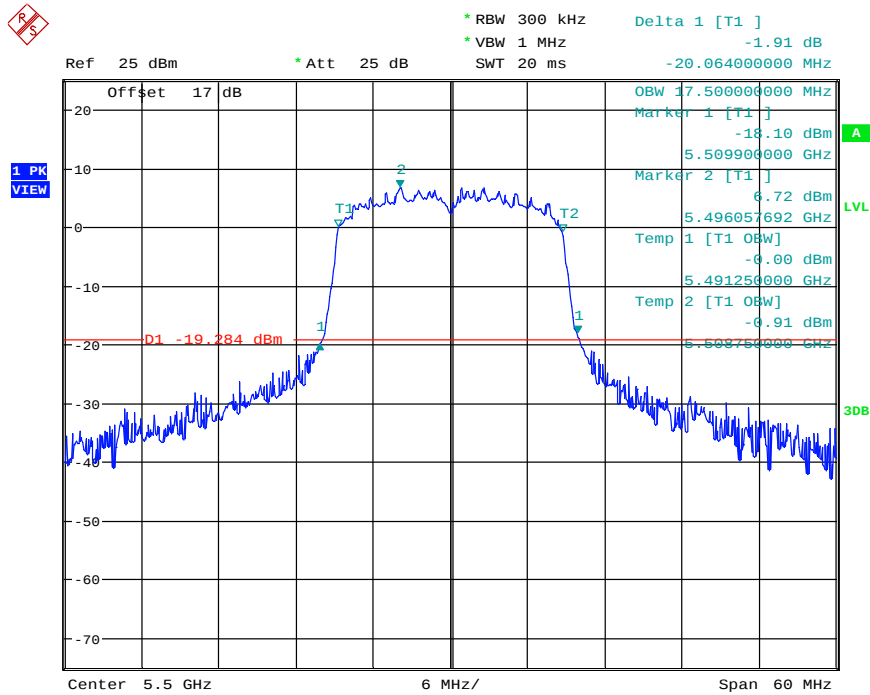


99% OBW & 26DB BANDWIDTH ANT1_11a_CH140

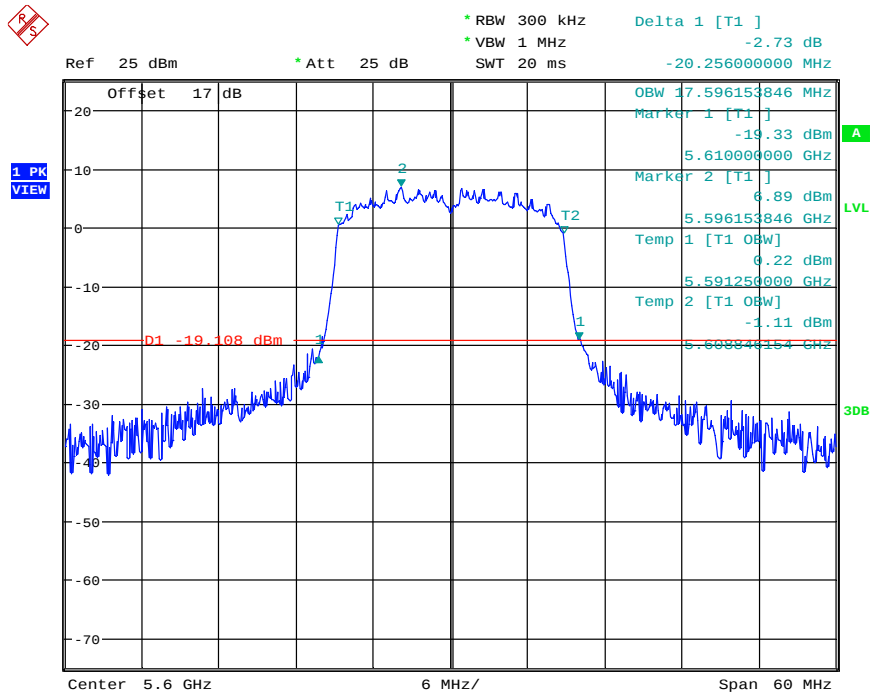
Date: 22.APR.2019 14:22:12



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH100
Date: 23.APR.2019 09:24:43

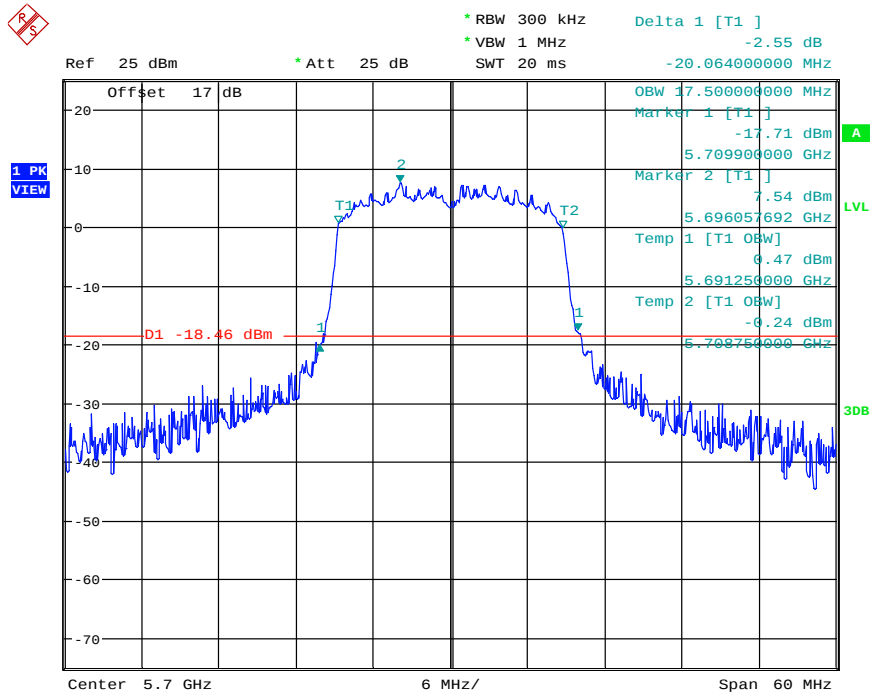


99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH120
Date: 23.APR.2019 09:34:20

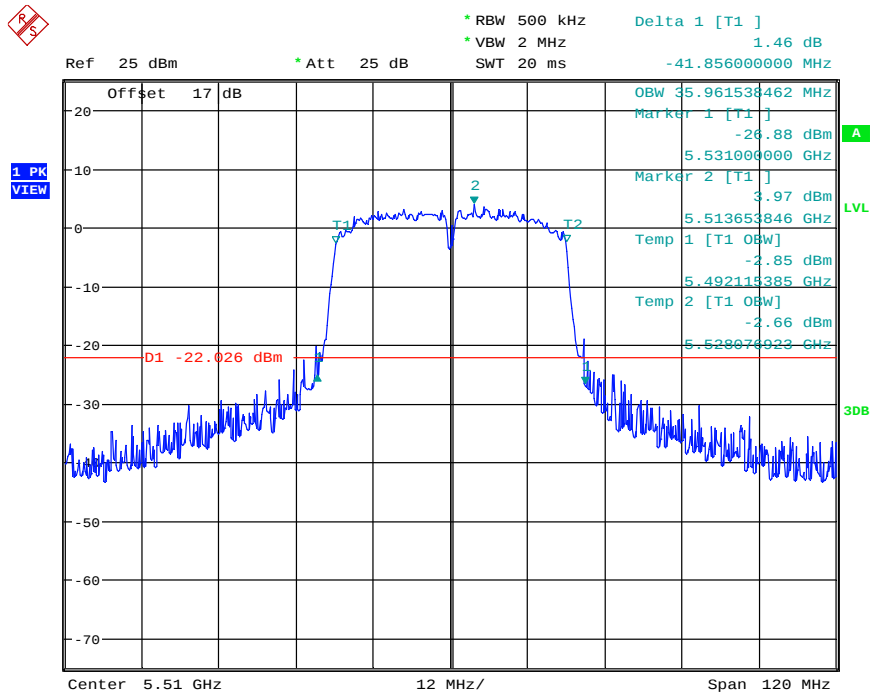


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac20_CH140
Date: 23.APR.2019 09:36:54

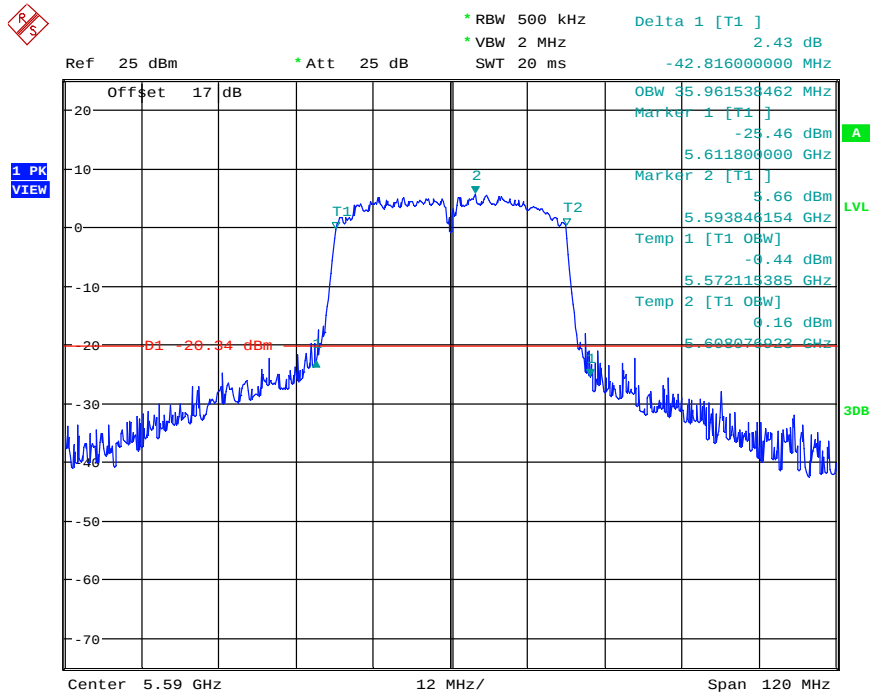


99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH102
Date: 23.APR.2019 09:41:40



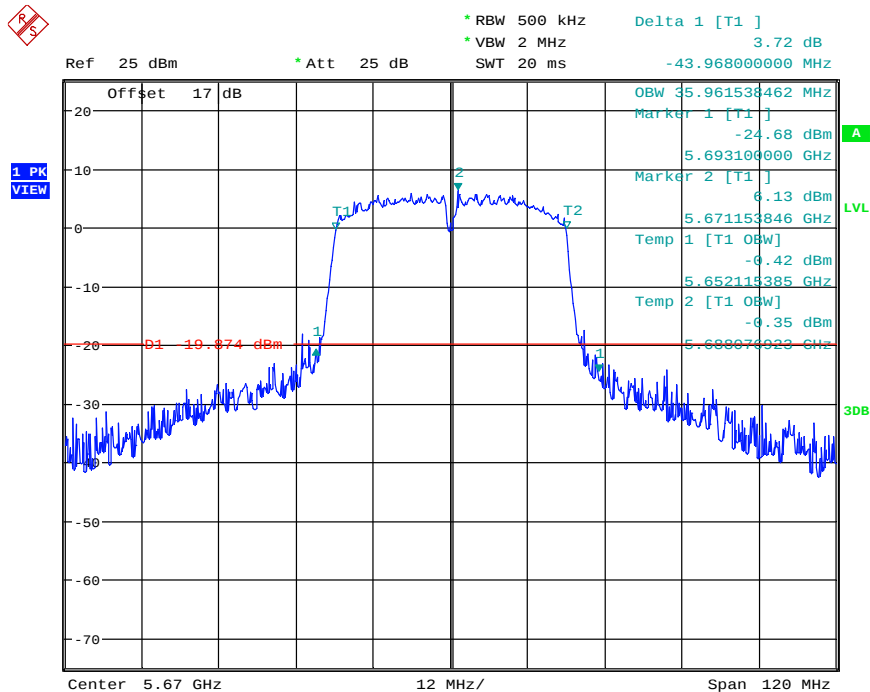
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH118

Date: 23.APR.2019 09:45:04

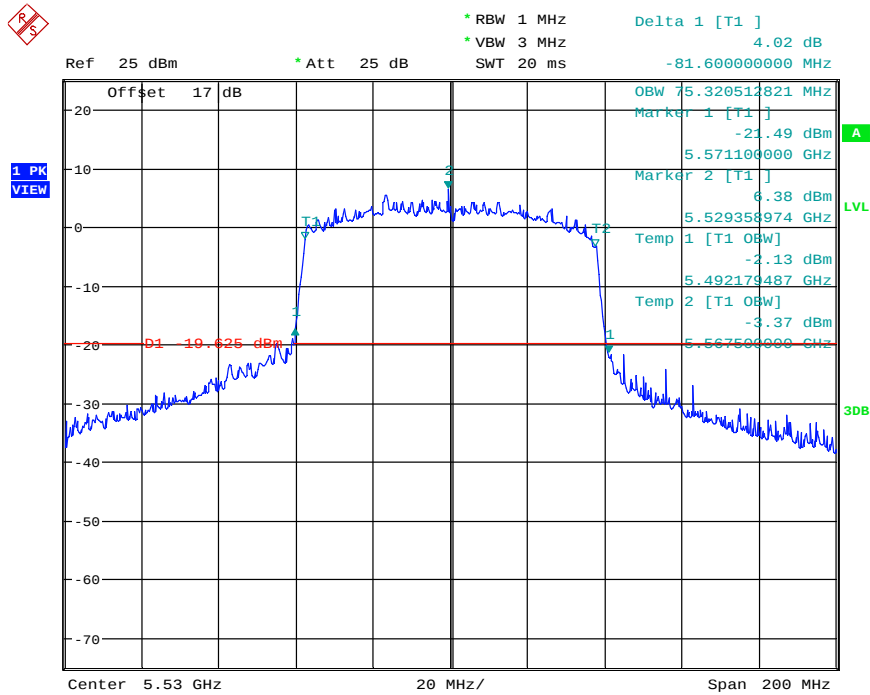


99% OBW & 26DB BANDWIDTH ANT1_11ac40_CH134

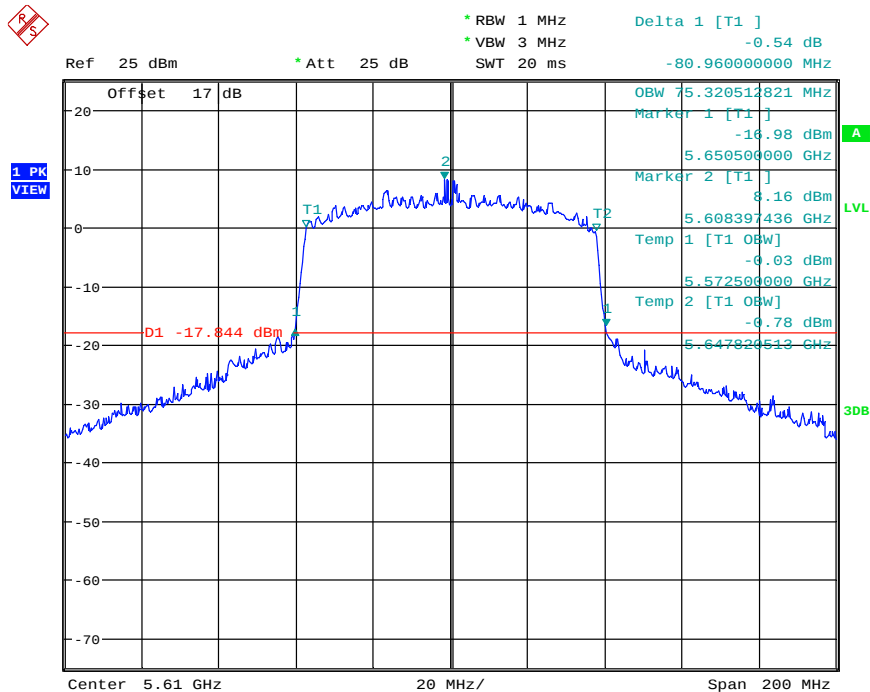
Date: 23.APR.2019 09:50:28



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH106
Date: 22.APR.2019 15:20:03



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH122
Date: 22.APR.2019 15:22:31

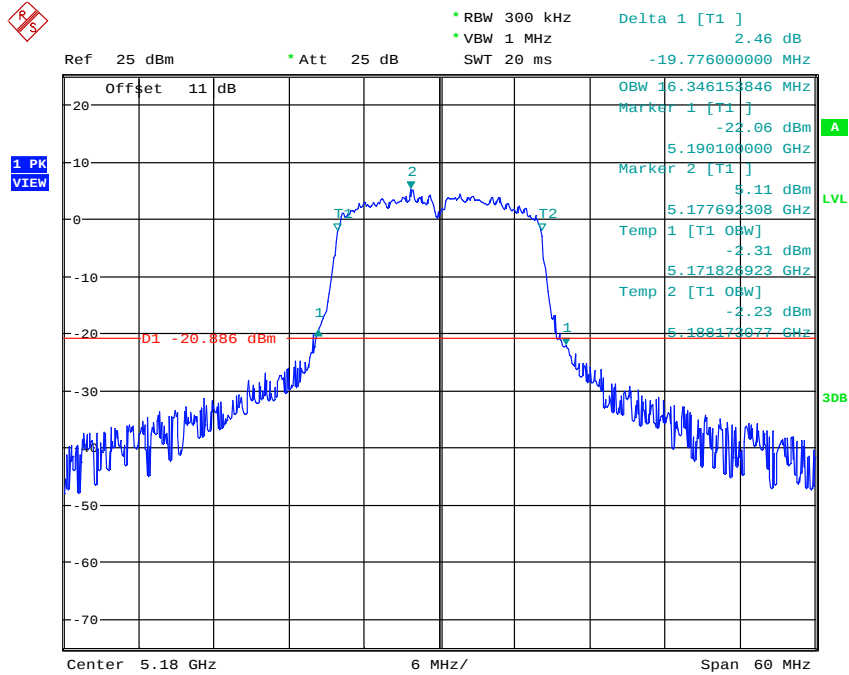


Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

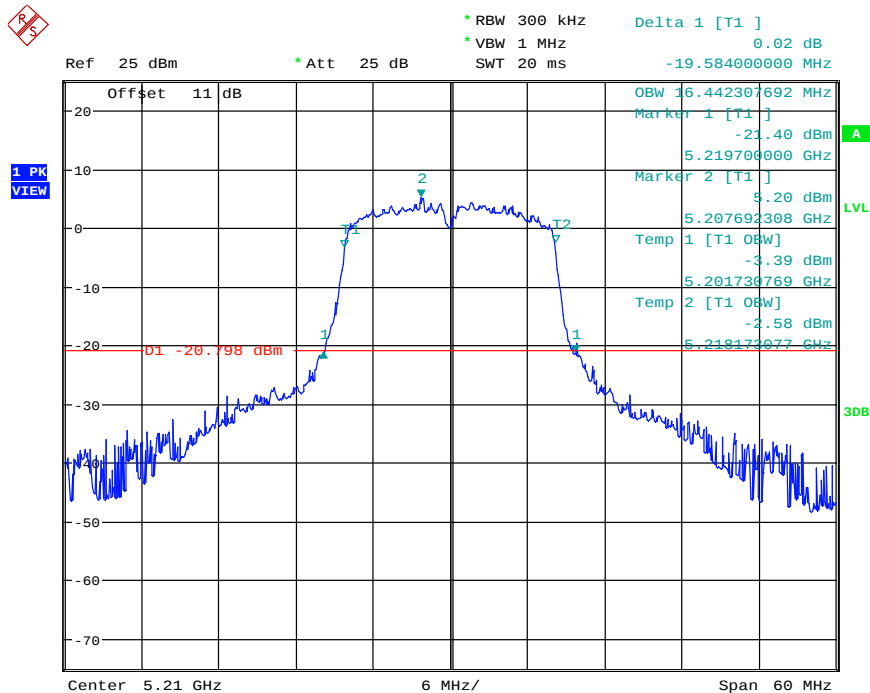
ANTB

5.15 GHz ~ 5.25 GHz



99% OBW & 26DB BANDWIDTH ANT2_11a_CH36

Date: 22.APR.2019 09:37:01



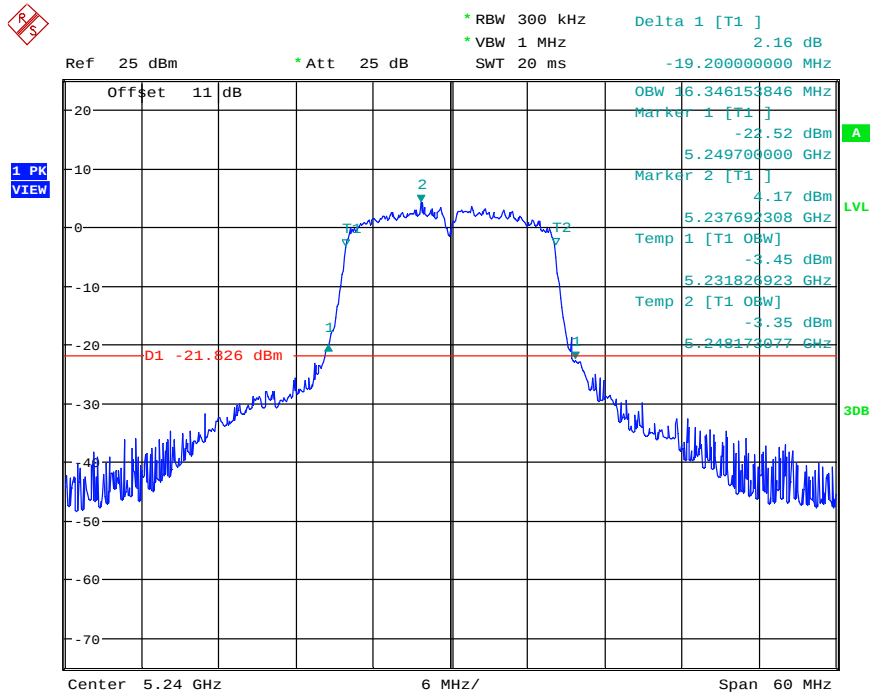
99% OBW & 26DB BANDWIDTH ANT2_11a_CH44

Date: 3.JUN.2019 09:25:29



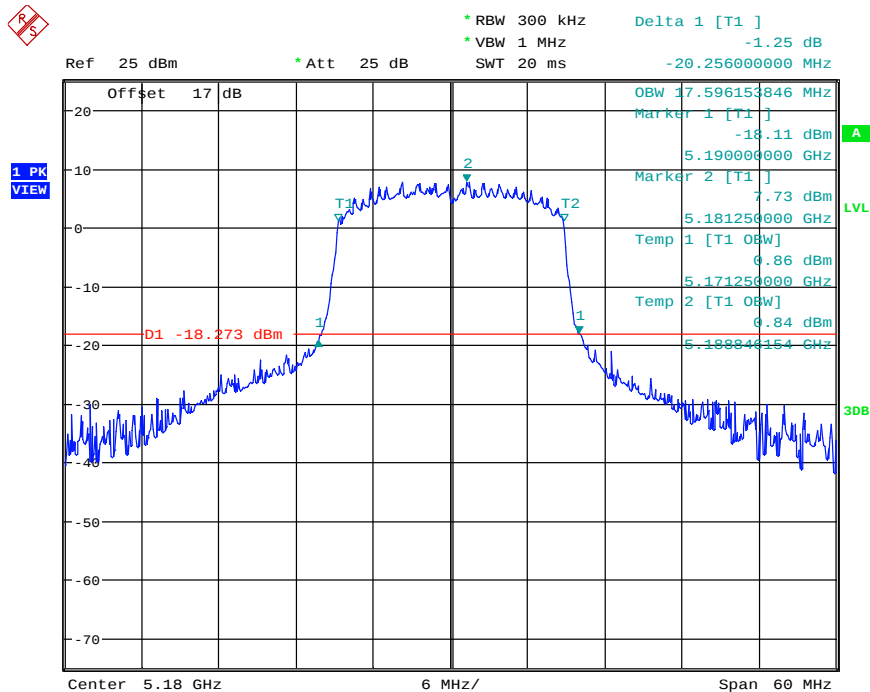
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11a_CH48

Date: 22.APR.2019 10:57:14

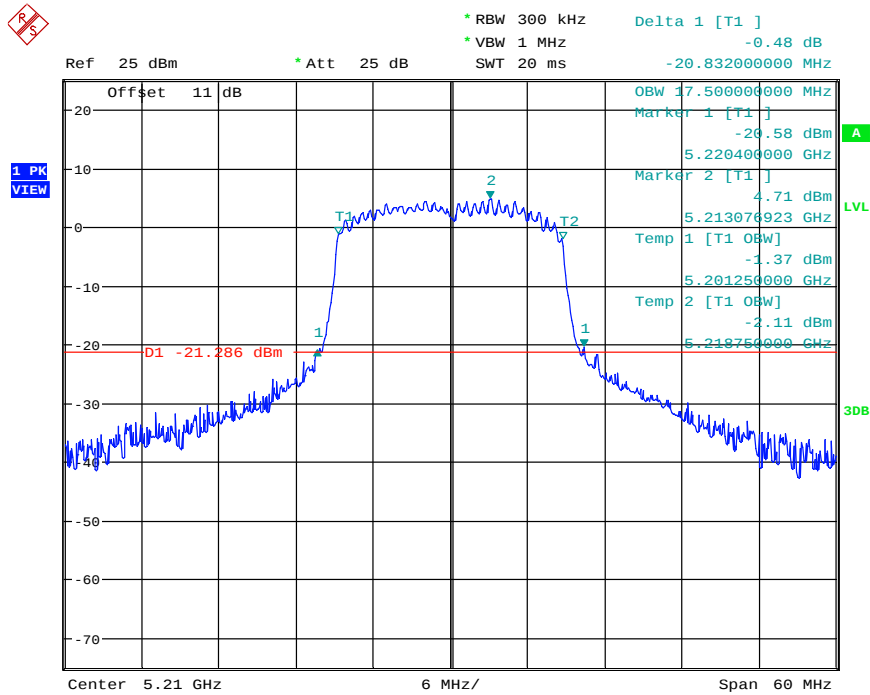


99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH36

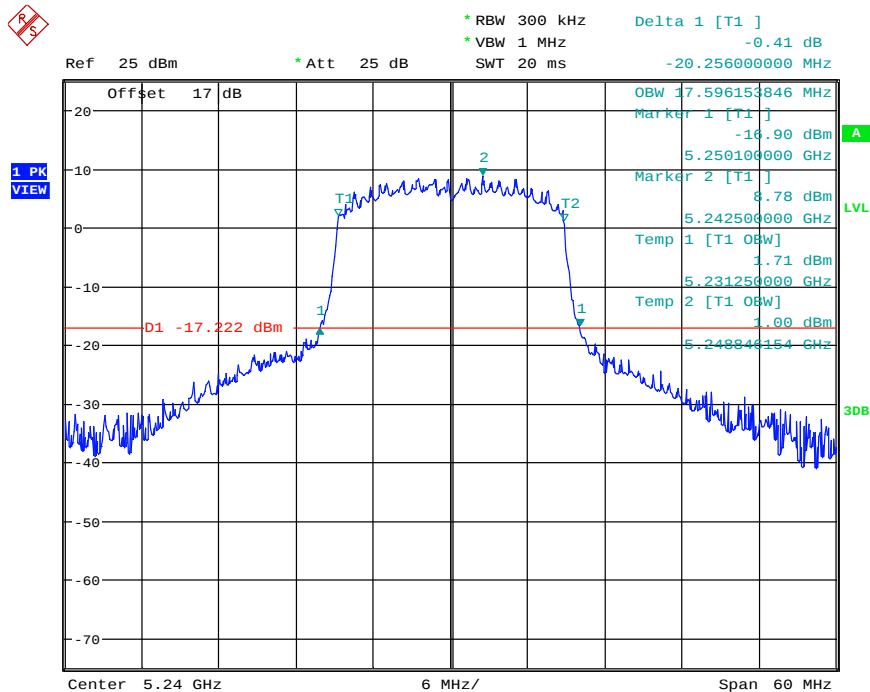
Date: 22.APR.2019 11:51:24



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH44
Date: 3.JUN.2019 09:46:45

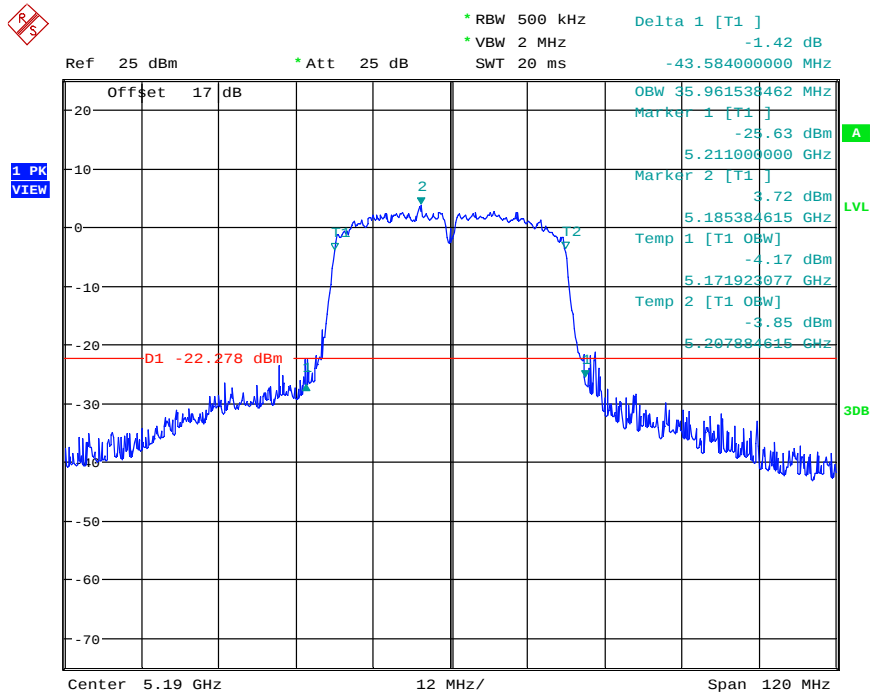


99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH48
Date: 22.APR.2019 12:00:45



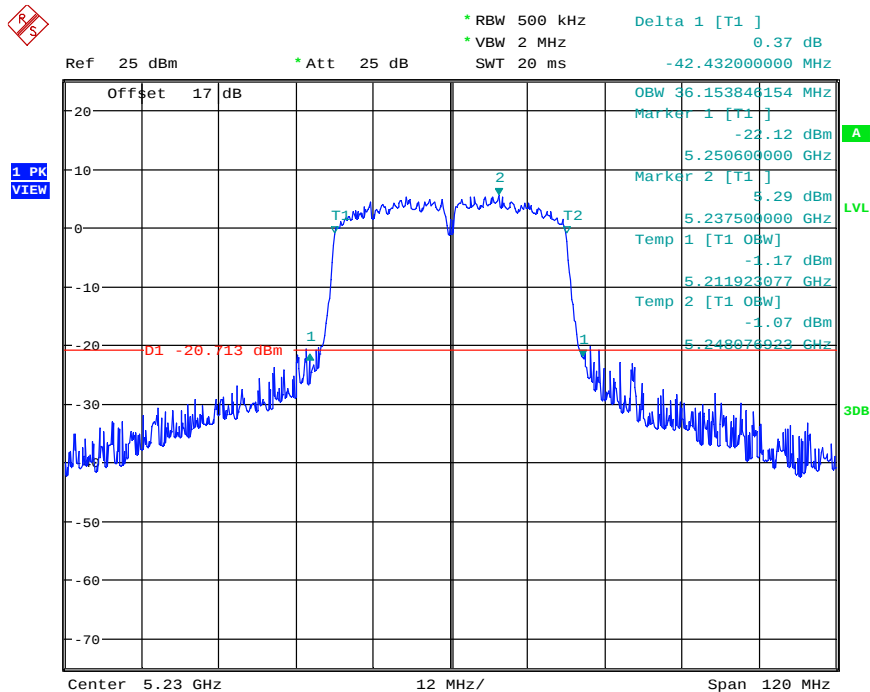
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH38

Date: 22.APR.2019 13:26:56

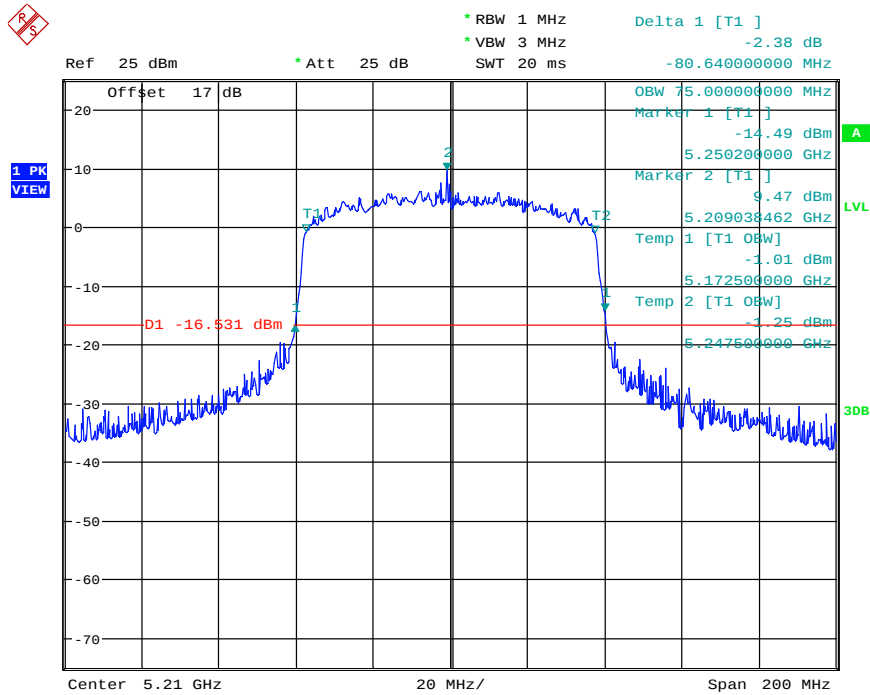


99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH46

Date: 22.APR.2019 13:32:26

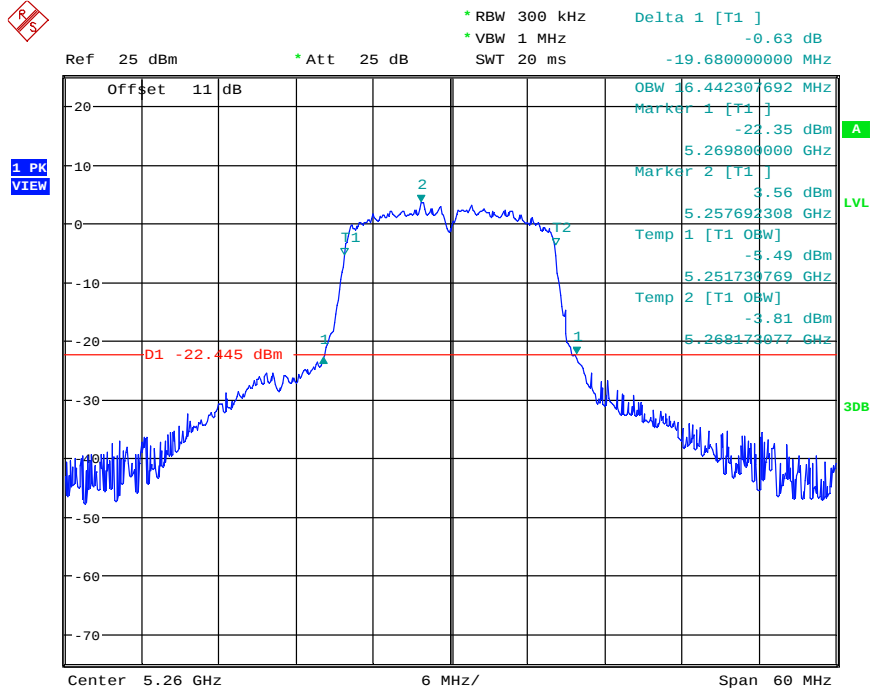


Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH42
Date: 22.APR.2019 13:45:38

5.25 GHz ~ 5.35 GHz

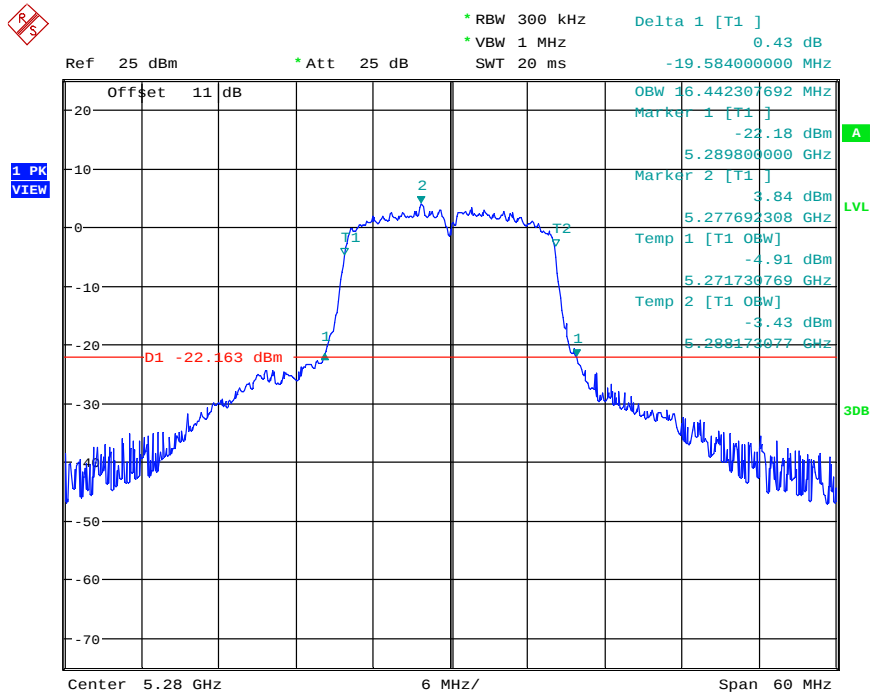


99% OBW & 26DB BANDWIDTH ANT2_11a_CH52
Date: 22.APR.2019 11:02:27



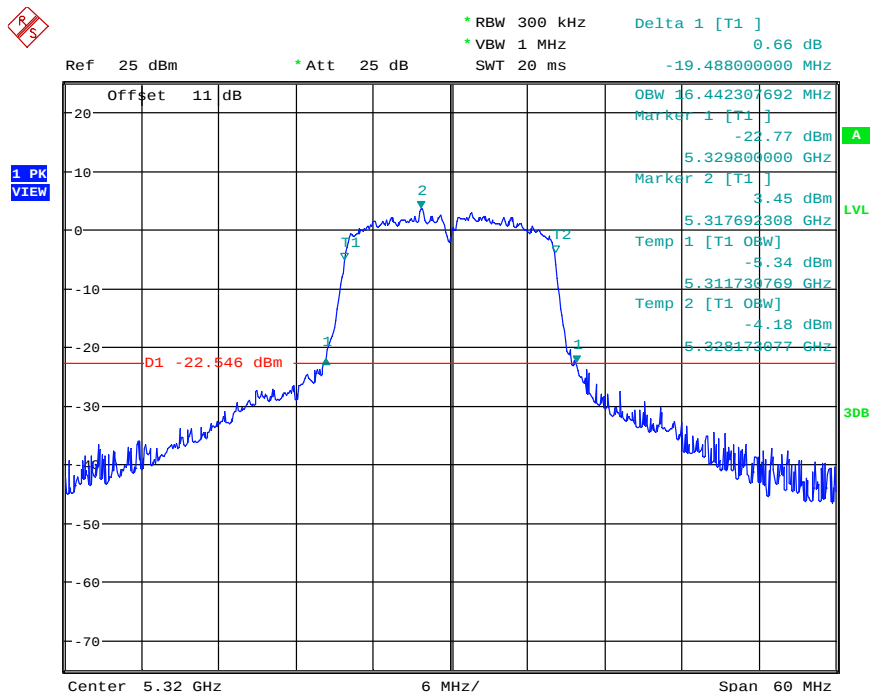
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11a_CH56

Date: 22.APR.2019 11:06:24

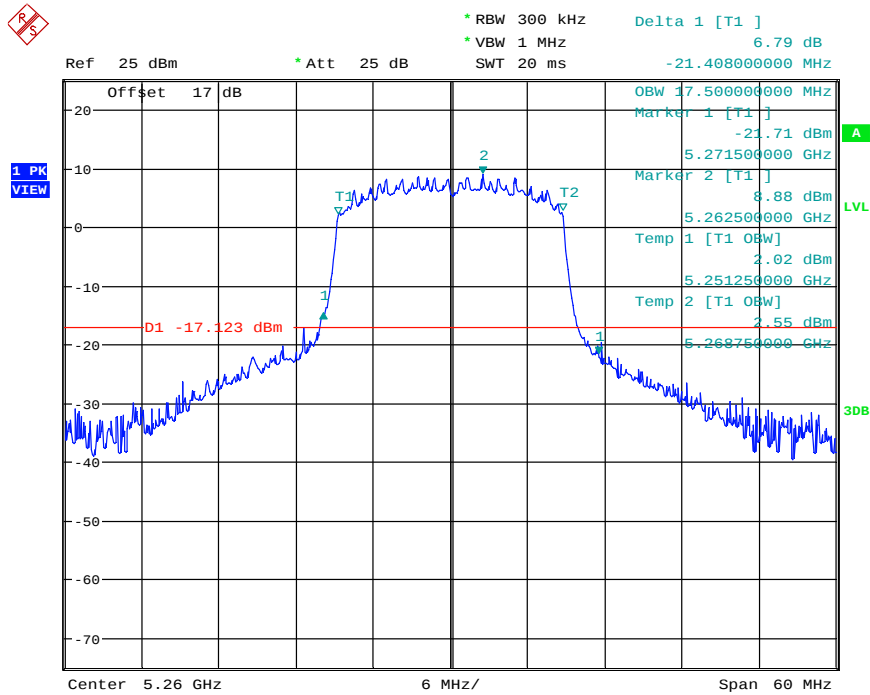


99% OBW & 26DB BANDWIDTH ANT2_11a_CH64

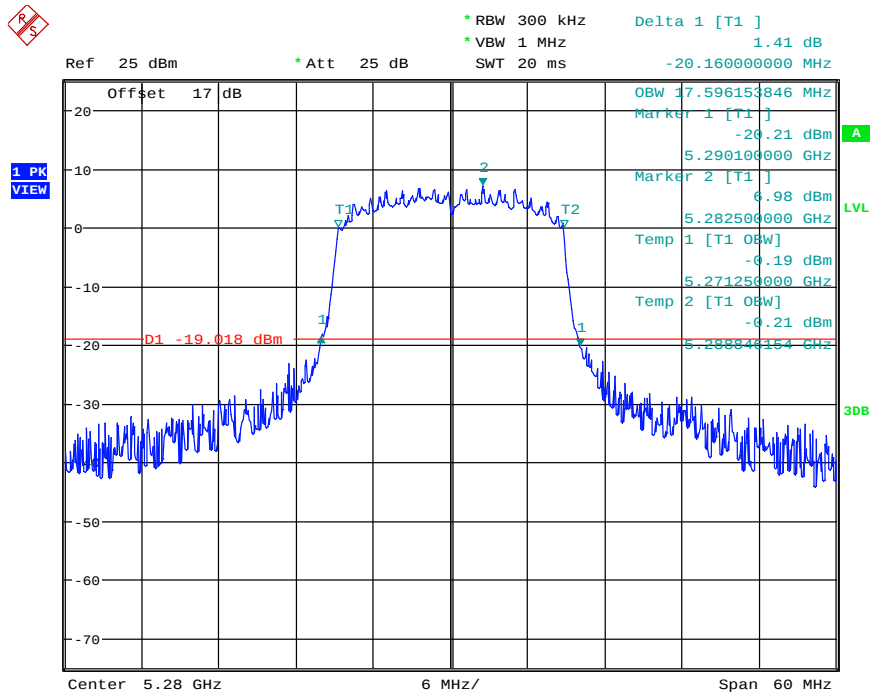
Date: 22.APR.2019 11:10:10



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH52
Date: 22.APR.2019 13:11:37

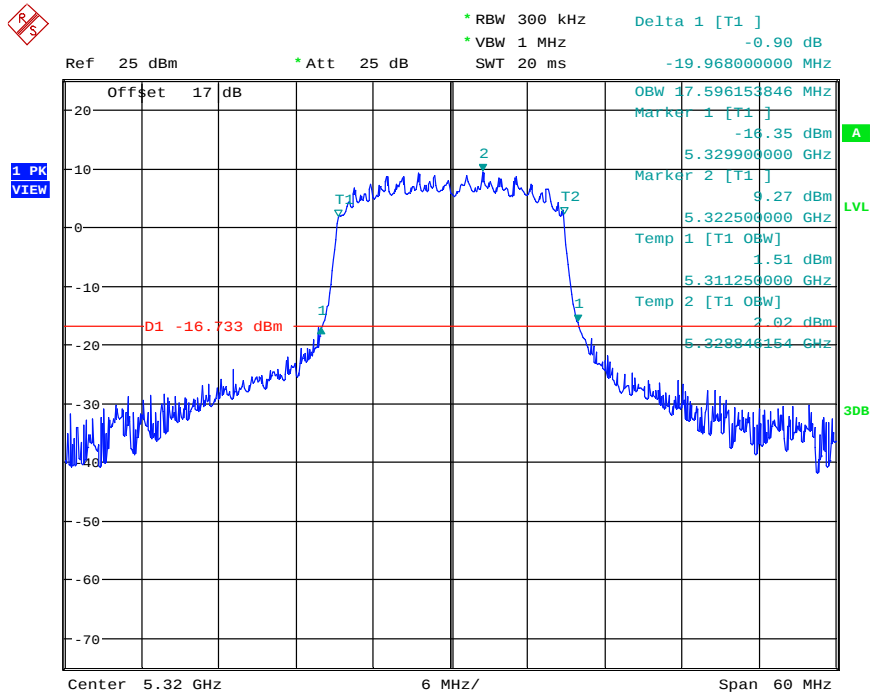


99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH56
Date: 22.APR.2019 13:15:28



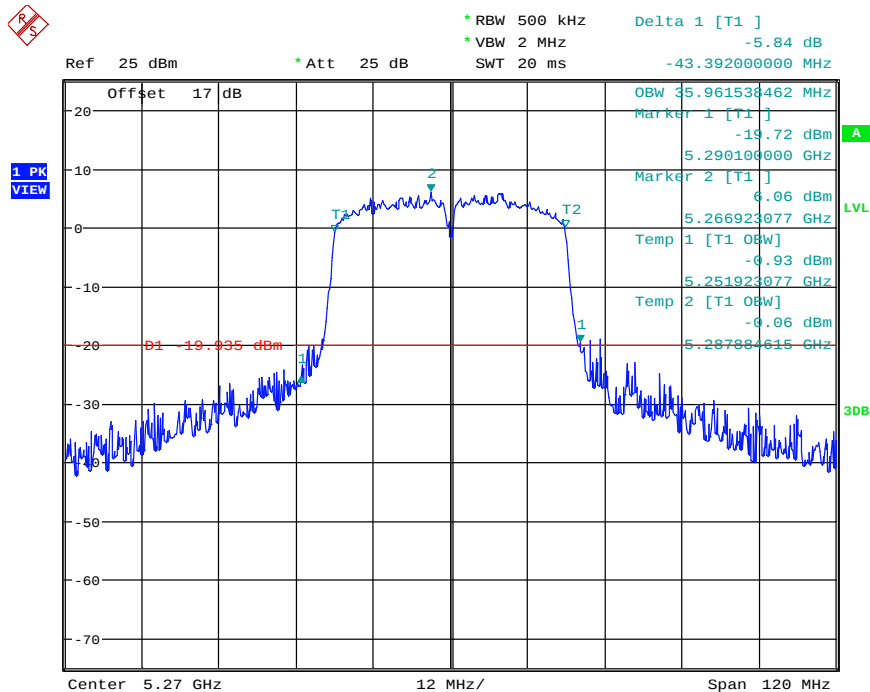
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH64

Date: 22.APR.2019 13:20:47



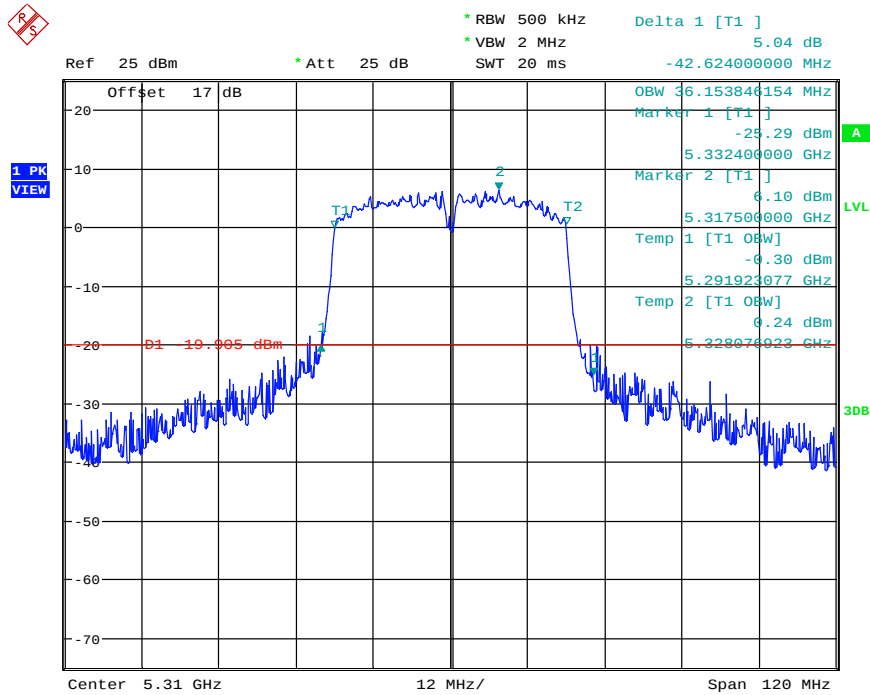
99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH54

Date: 22.APR.2019 13:36:28



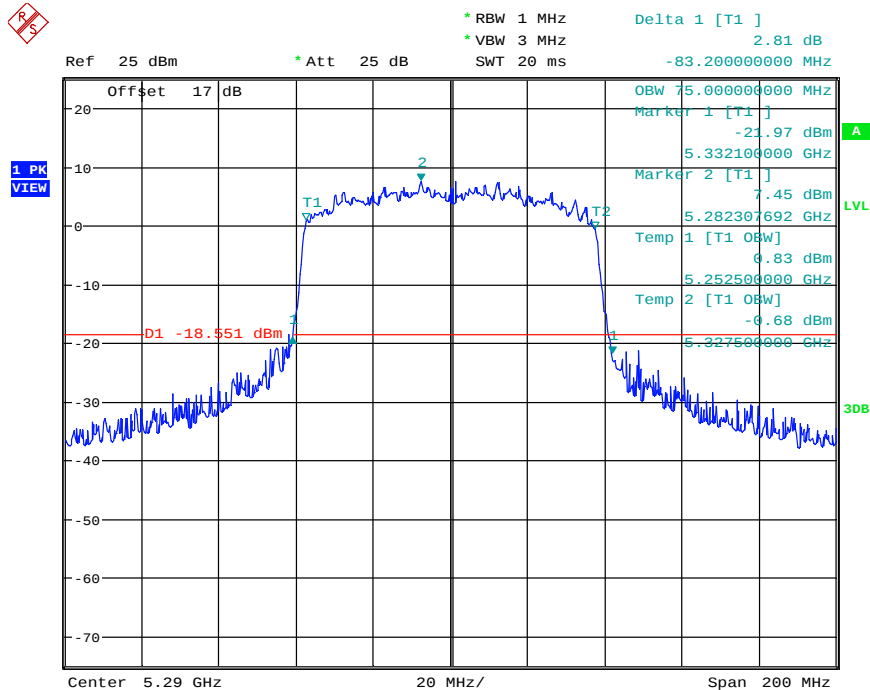
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH62

Date: 22.APR.2019 13:39:51



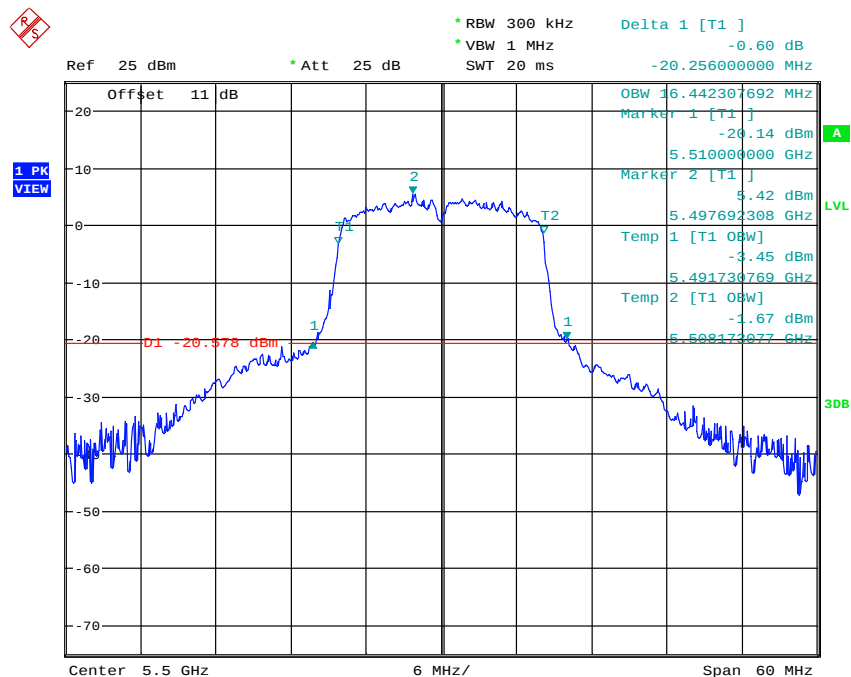
99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH58

Date: 22.APR.2019 13:48:23

Registration number: W6M21903-18857-C-54

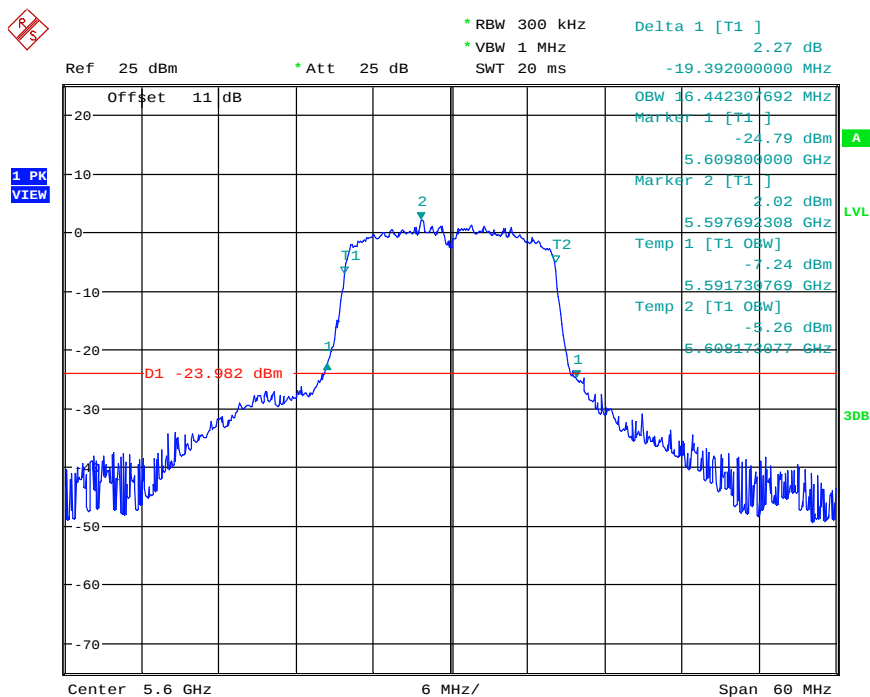
FCC ID: YY3-182010

5.47 GHz ~ 5.725 GHz



99% OBW & 26DB BANDWIDTH ANT2 11a CH100

Date: 22.APR.2019 14:09:17

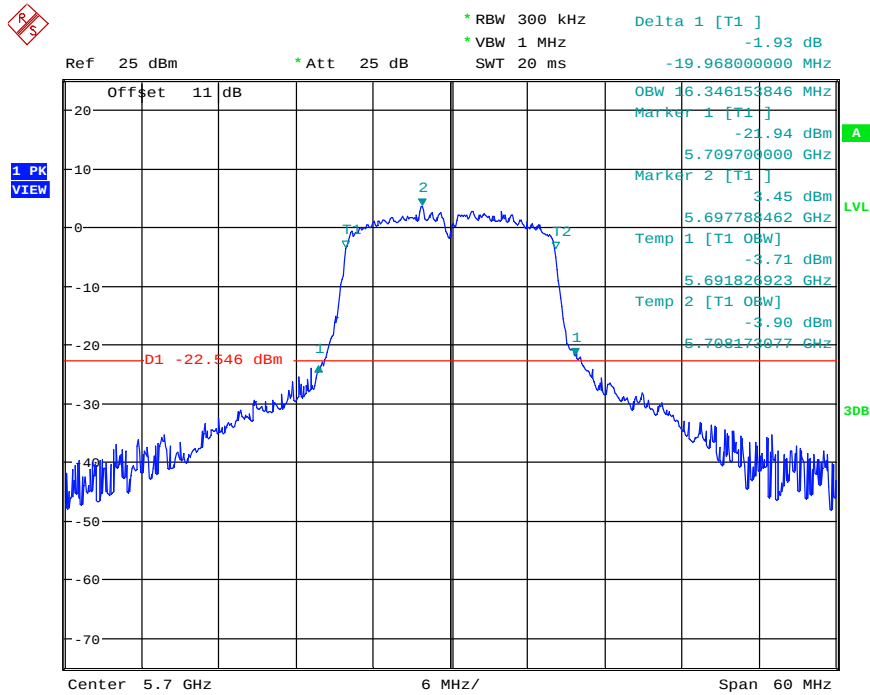


99% OBW & 26DB BANDWIDTH ANT2_11a_CH120

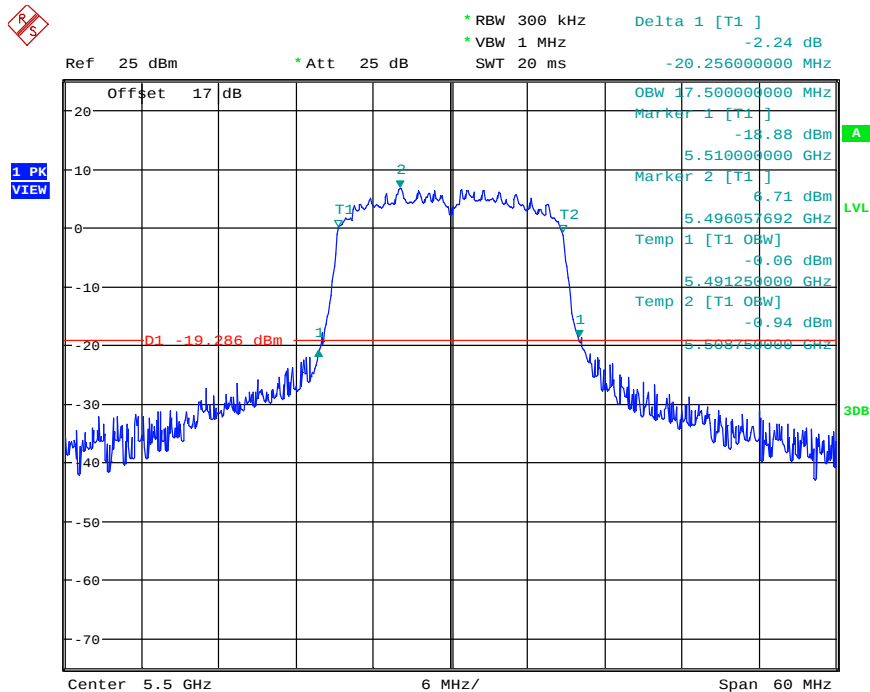
Date: 22.APR.2019 14:16:42



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11a_CH140
Date: 22.APR.2019 14:19:27

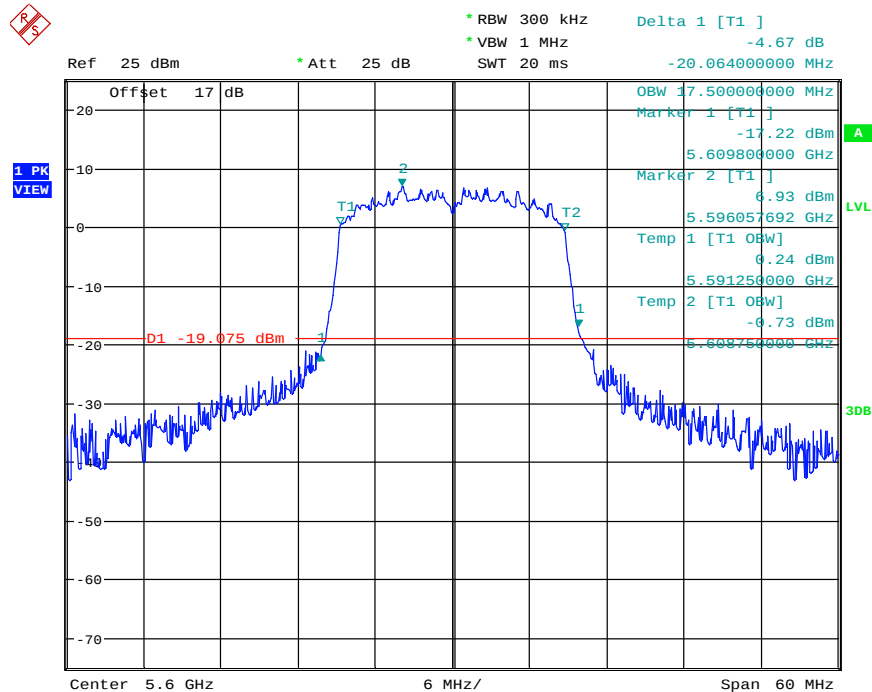


99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH100
Date: 23.APR.2019 09:27:06



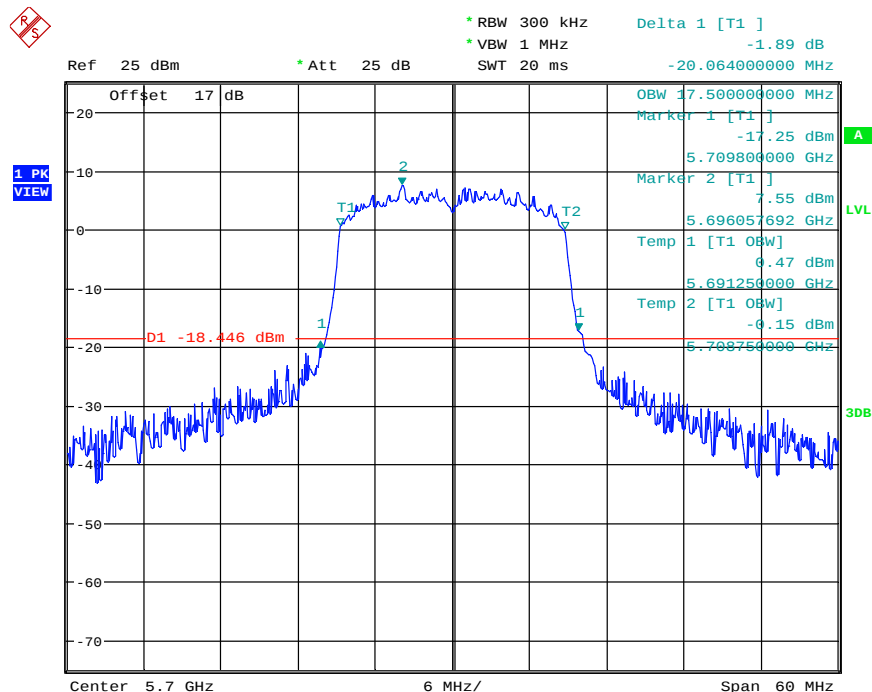
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH120

Date: 23.APR.2019 09:32:03



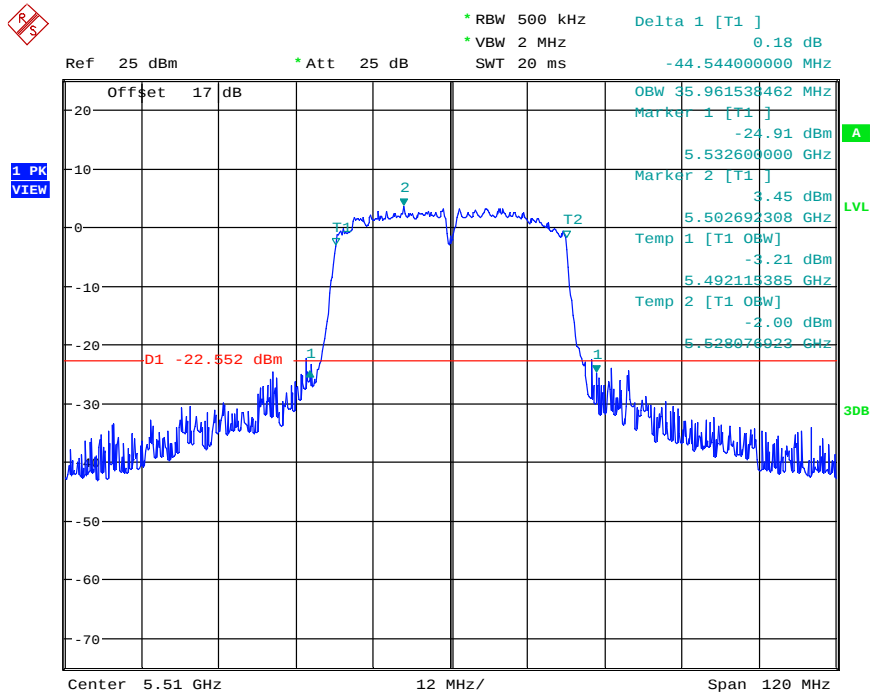
99% OBW & 26DB BANDWIDTH ANT2_11ac20_CH140

Date: 23.APR.2019 09:39:06



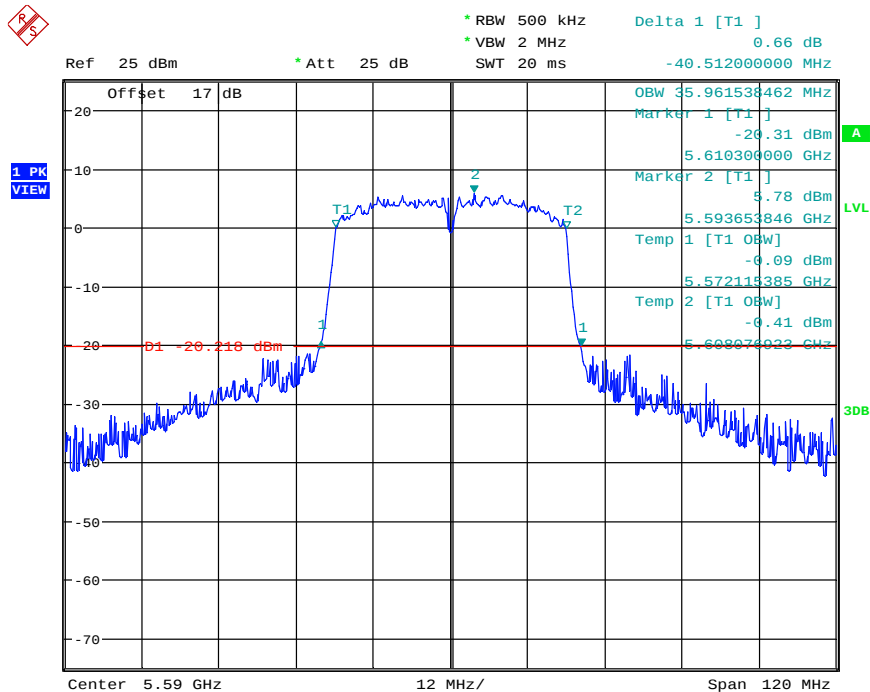
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH102

Date: 23.APR.2019 09:42:57

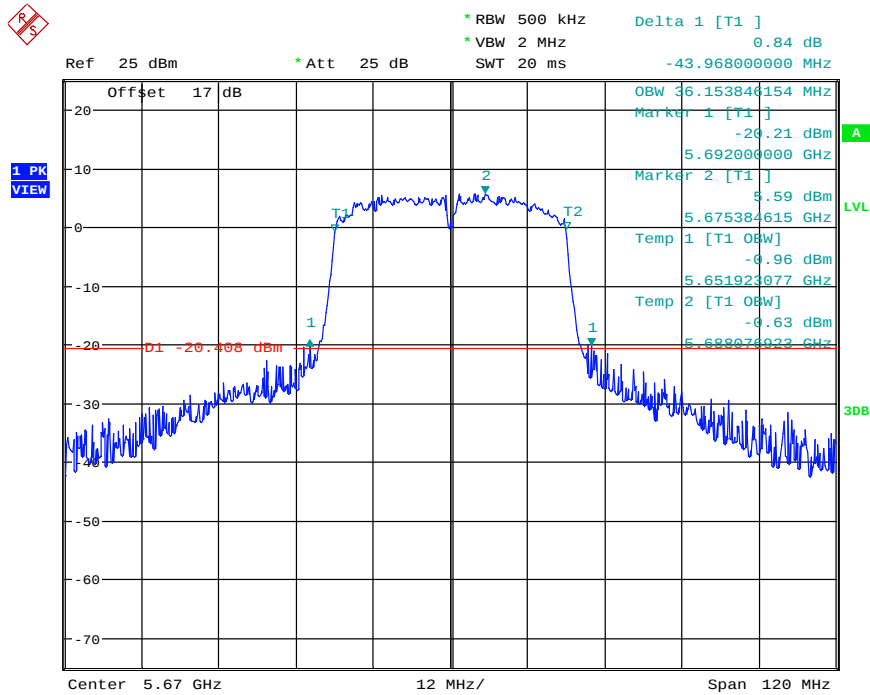


99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH118

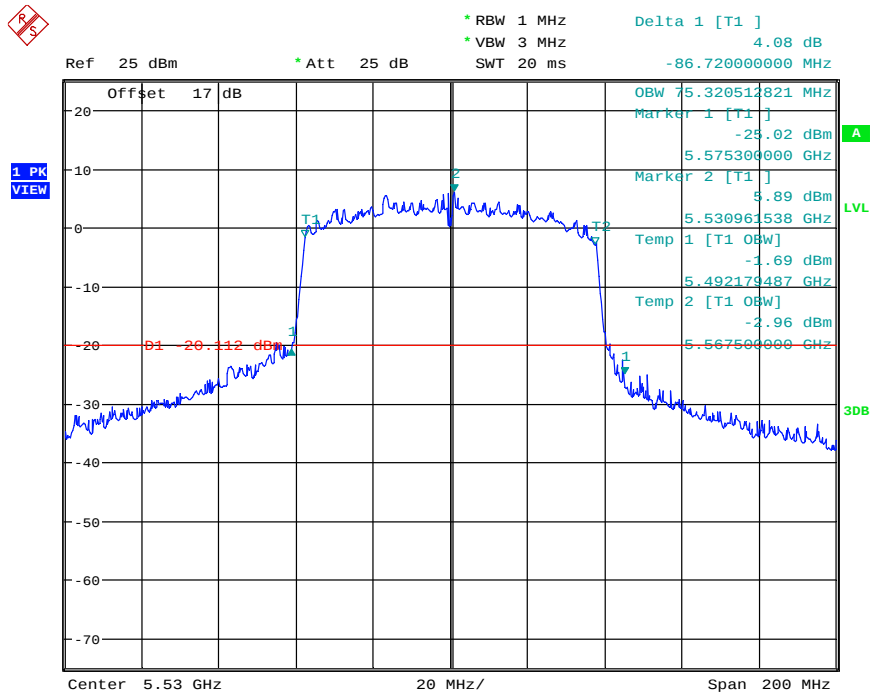
Date: 23.APR.2019 09:46:21



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac40_CH134
Date: 23.APR.2019 09:48:27

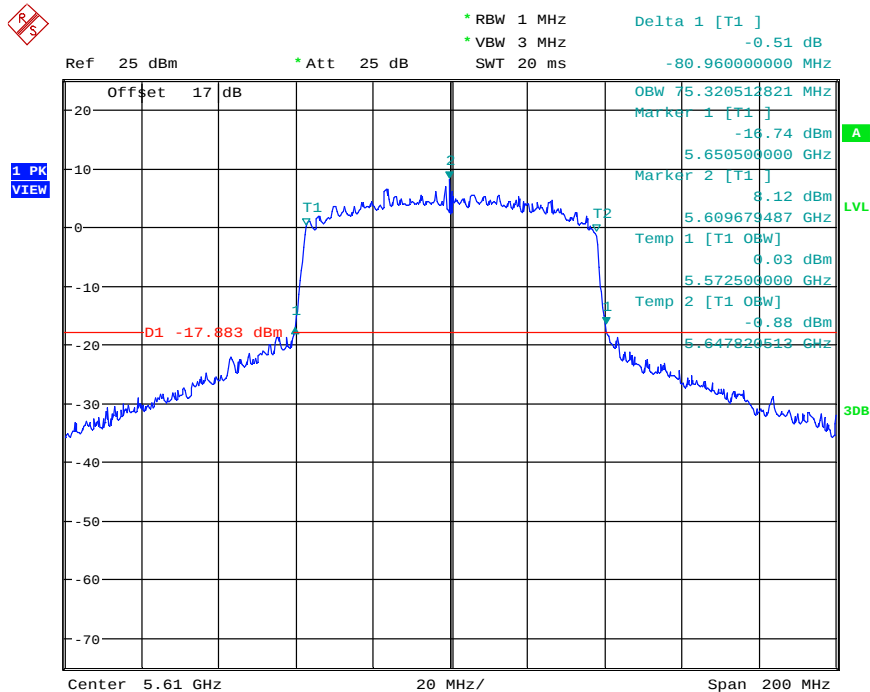


99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH106
Date: 22.APR.2019 15:17:56



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH122

Date: 22.APR.2019 15:24:05

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

Registration number: W6M21903-18857-C-54

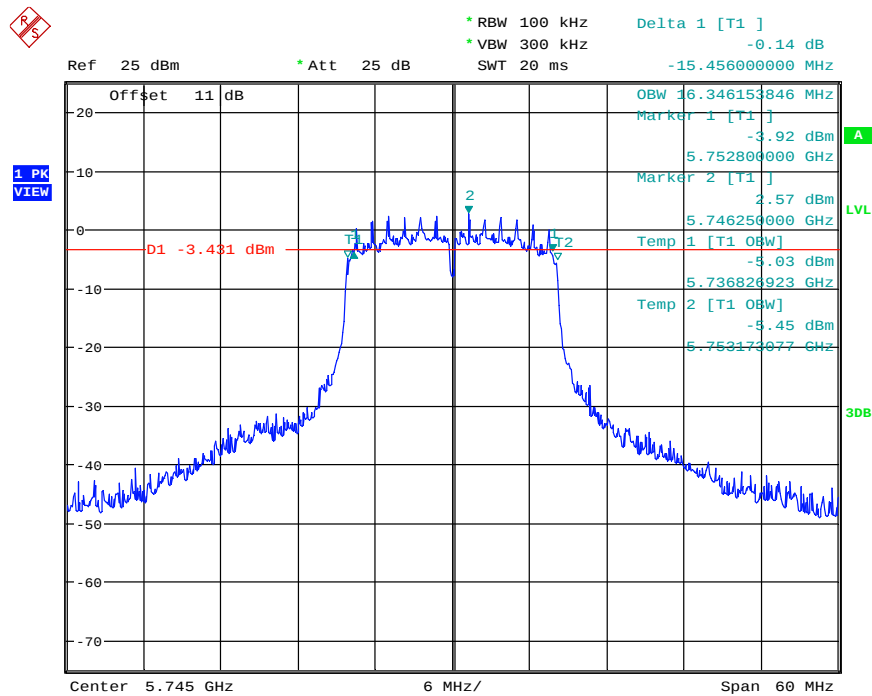
FCC ID: YY3-182010

3.3 6dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407(a). No Limit required.

Result:

ANTA

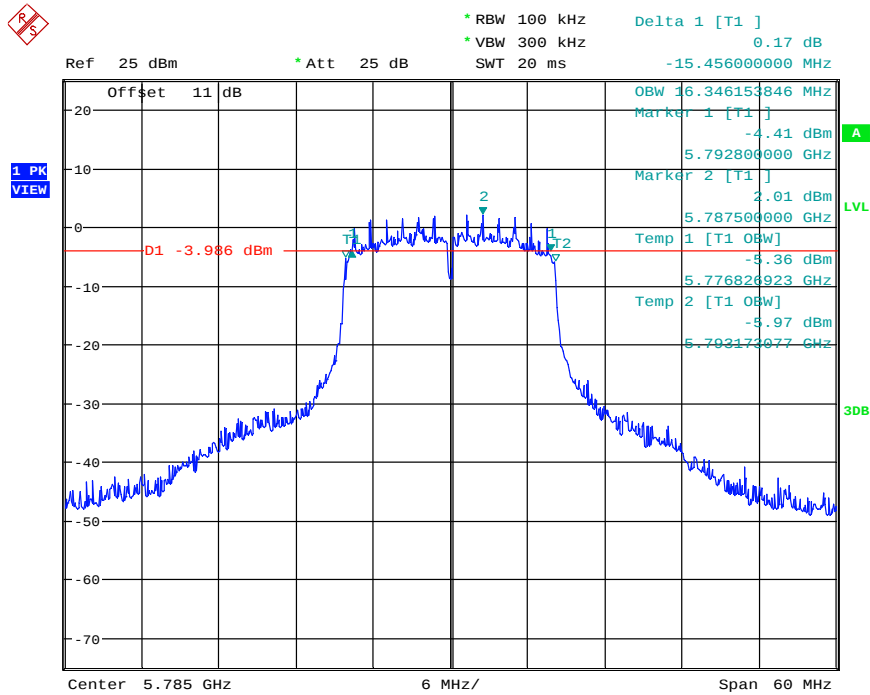


99% OBW & 6DB BANDWIDTH ANT1_11a_CH149

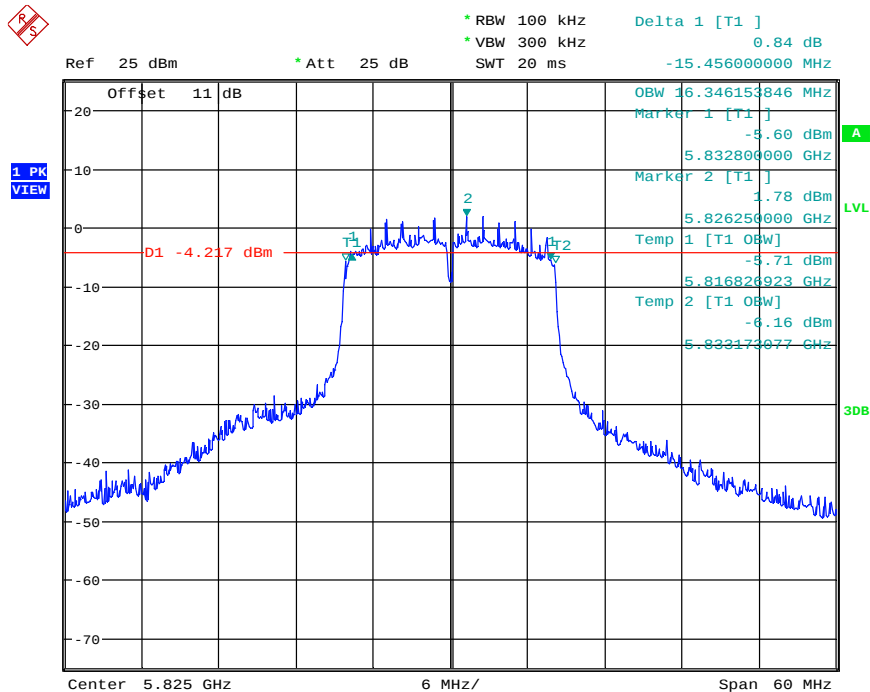
Date: 22.APR.2019 15:28:34



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



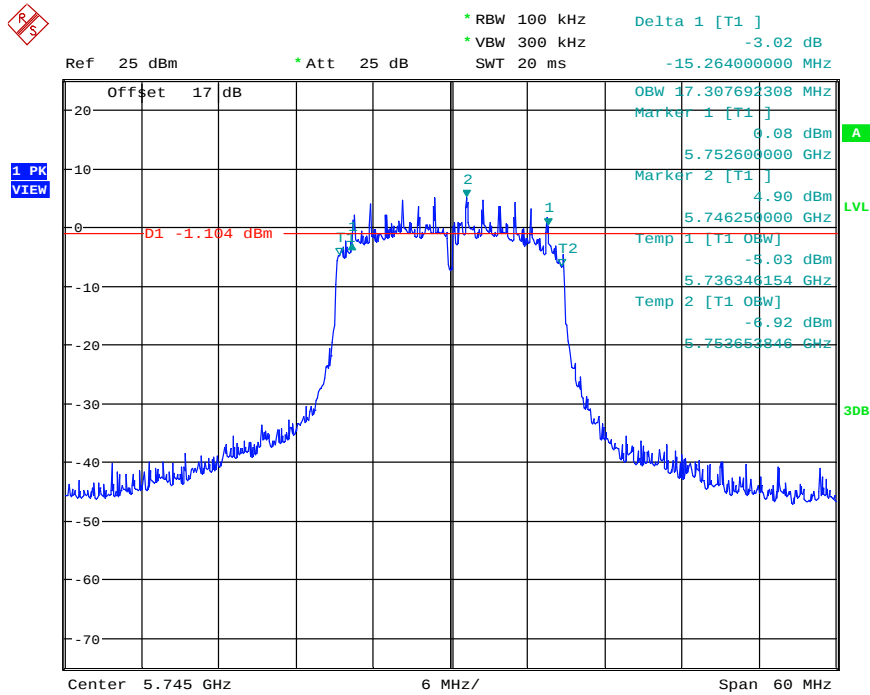
99% OBW & 6DB BANDWIDTH ANT1_11a_CH157
Date: 22.APR.2019 15:33:53



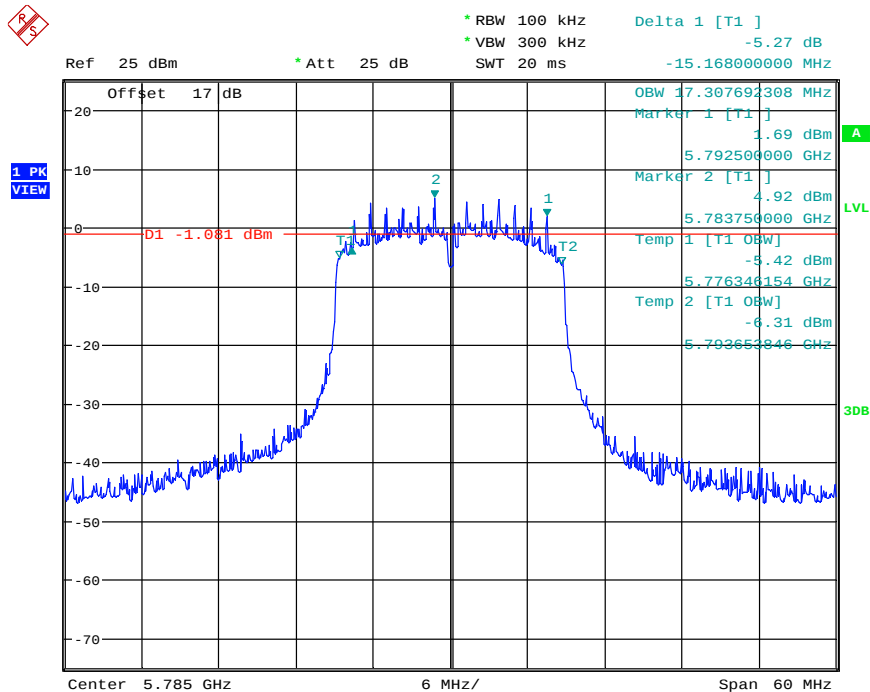
99% OBW & 6DB BANDWIDTH ANT1_11a_CH165
Date: 22.APR.2019 15:36:05



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



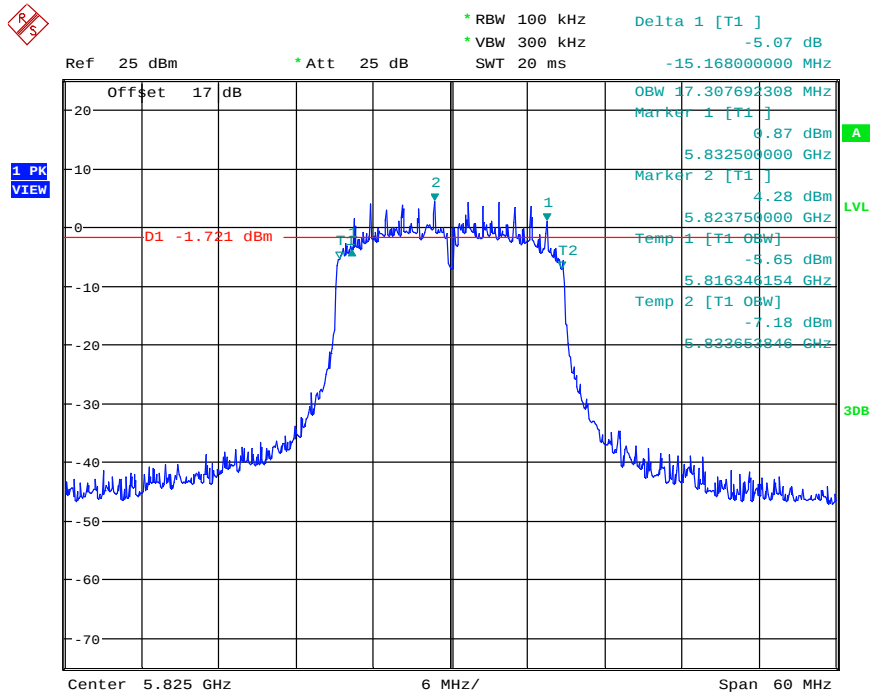
99% OBW & 6DB BANDWIDTH ANT1_11ac20_CH149
Date: 23.APR.2019 08:21:50



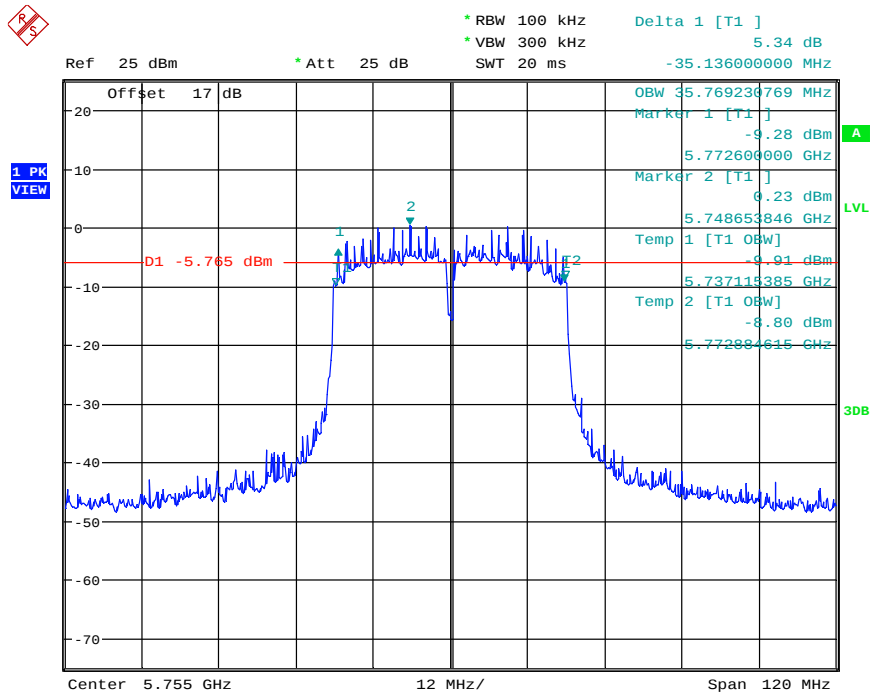
99% OBW & 6DB BANDWIDTH ANT1_11ac20_CH157
Date: 23.APR.2019 08:25:19



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 6DB BANDWIDTH ANT1_11ac20_CH165
Date: 23.APR.2019 08:29:27

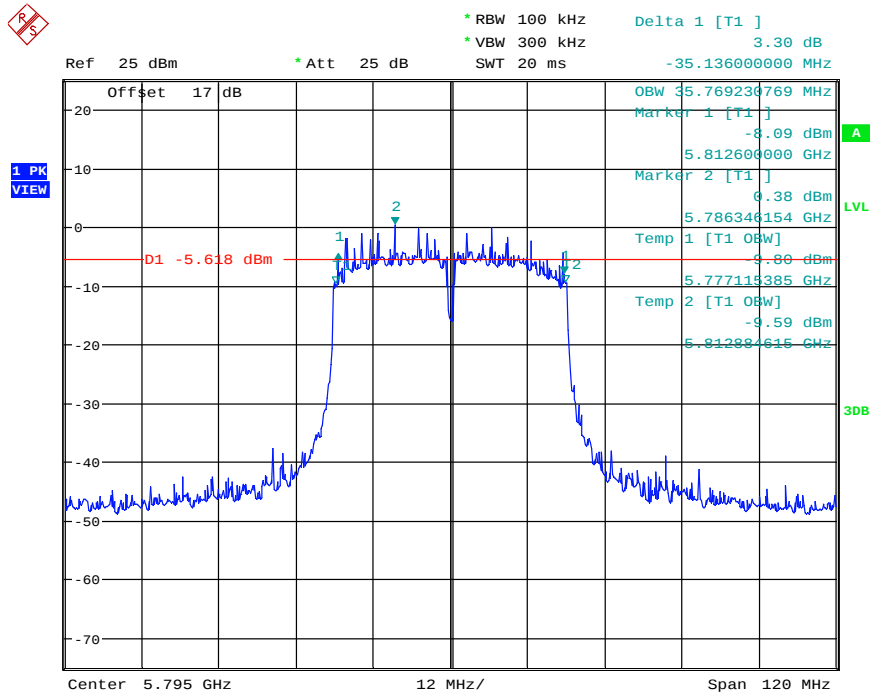


99% OBW & 6DB BANDWIDTH ANT1_11ac40_CH151
Date: 23.APR.2019 08:39:59



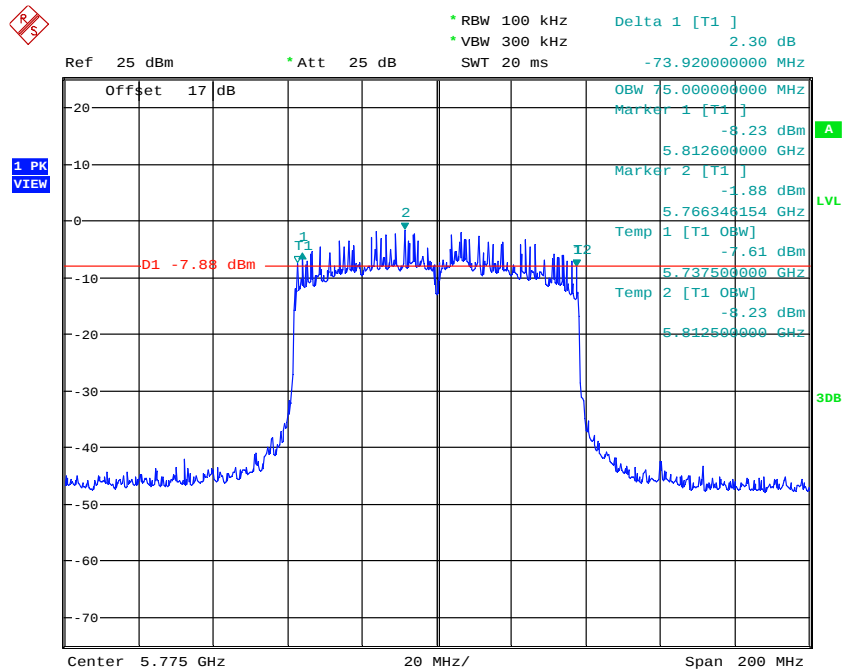
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 6DB BANDWIDTH ANT1_11ac40_CH159

Date: 23.APR.2019 08:43:56



99% OBW & 6DB BANDWIDTH ANT1_11ac80_CH155

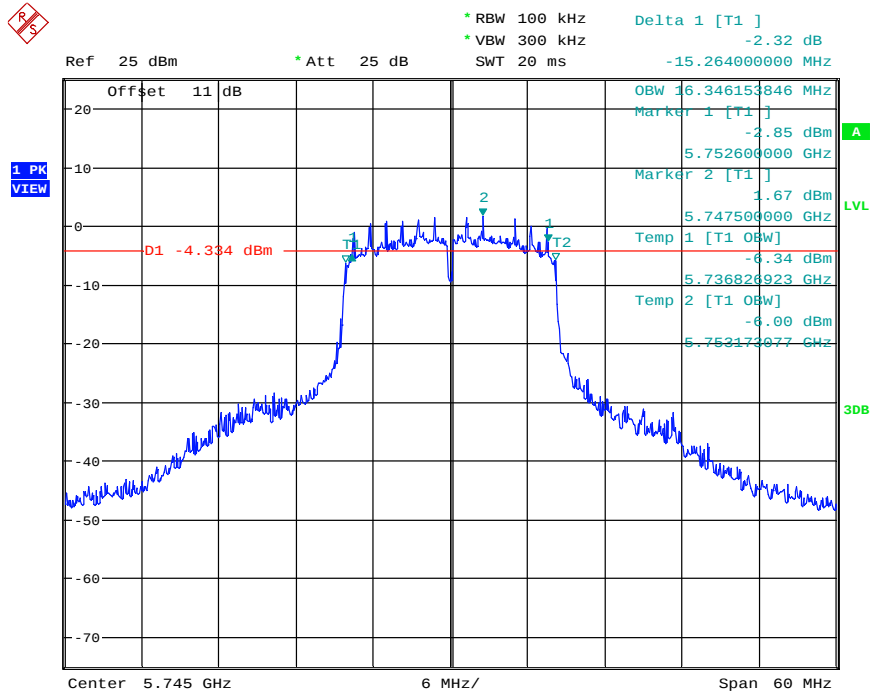
Date: 23.APR.2019 08:48:36



Registration number: W6M21903-18857-C-54

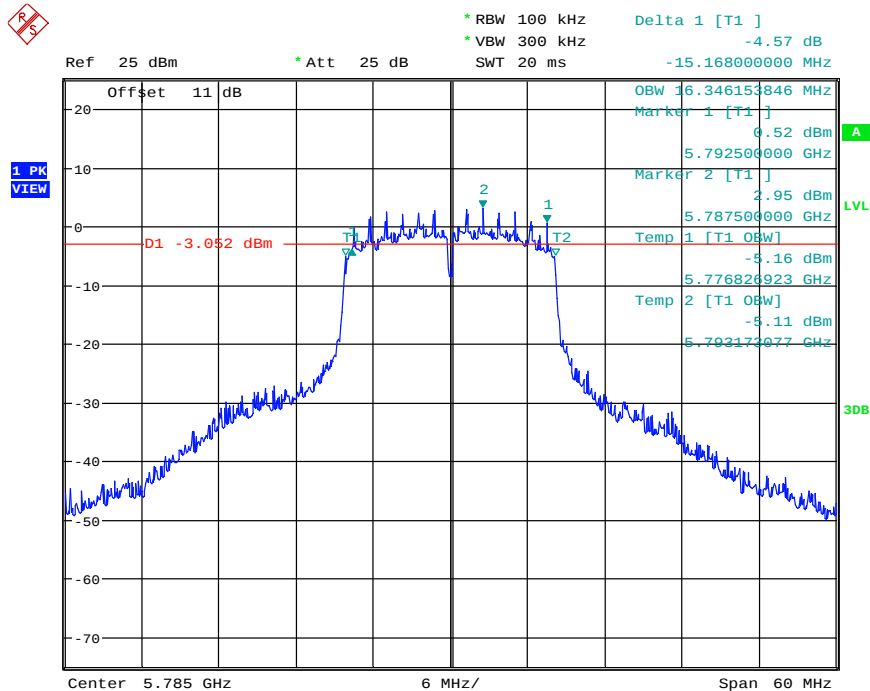
FCC ID: YY3-182010

ANTB



99% OBW & 6DB BANDWIDTH ANT2_11a_CH149

Date: 22.APR.2019 15:30:19

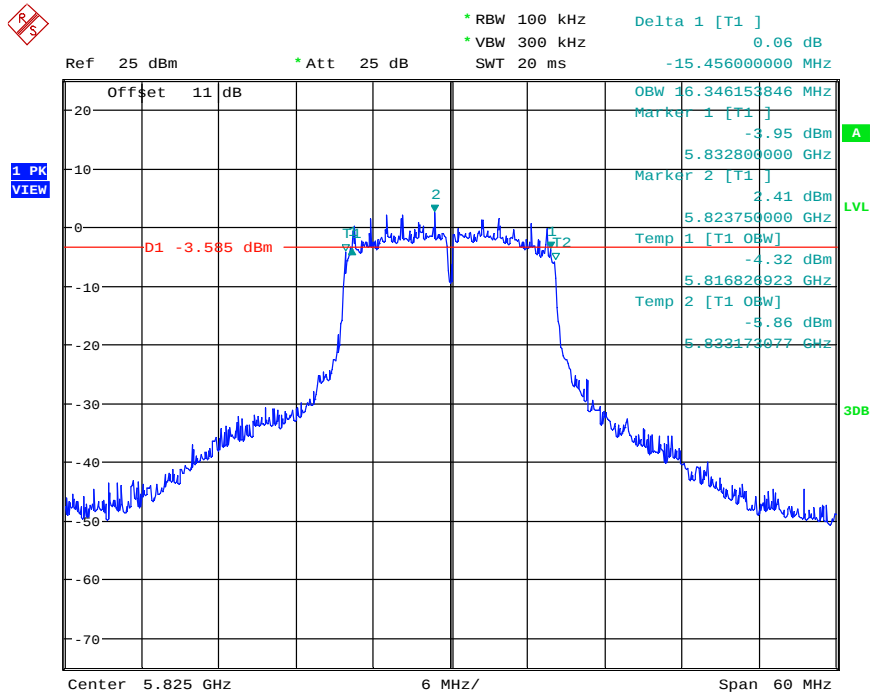


99% OBW & 6DB BANDWIDTH ANT2_11a_CH157

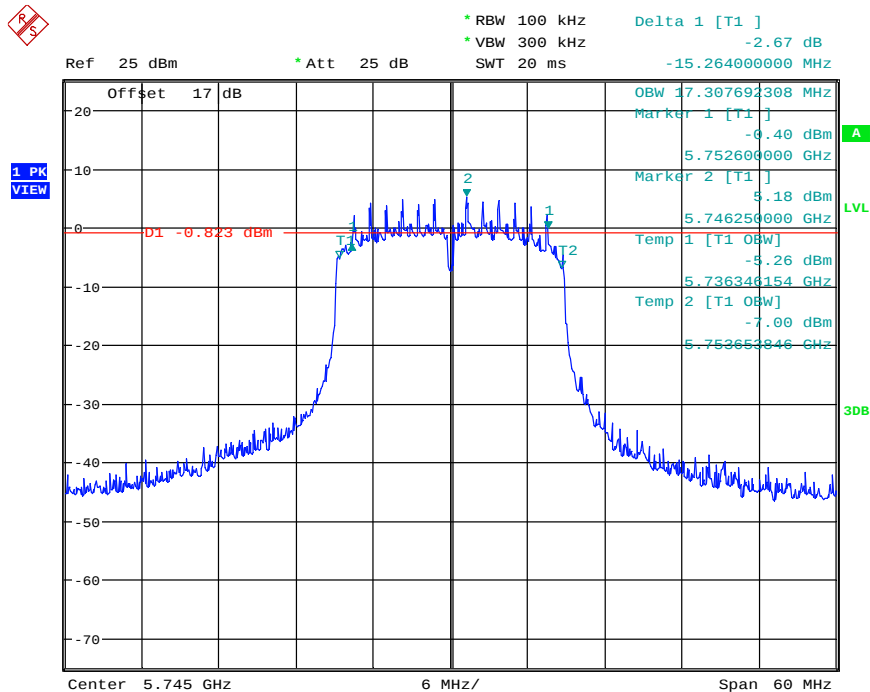
Date: 22.APR.2019 15:32:03



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



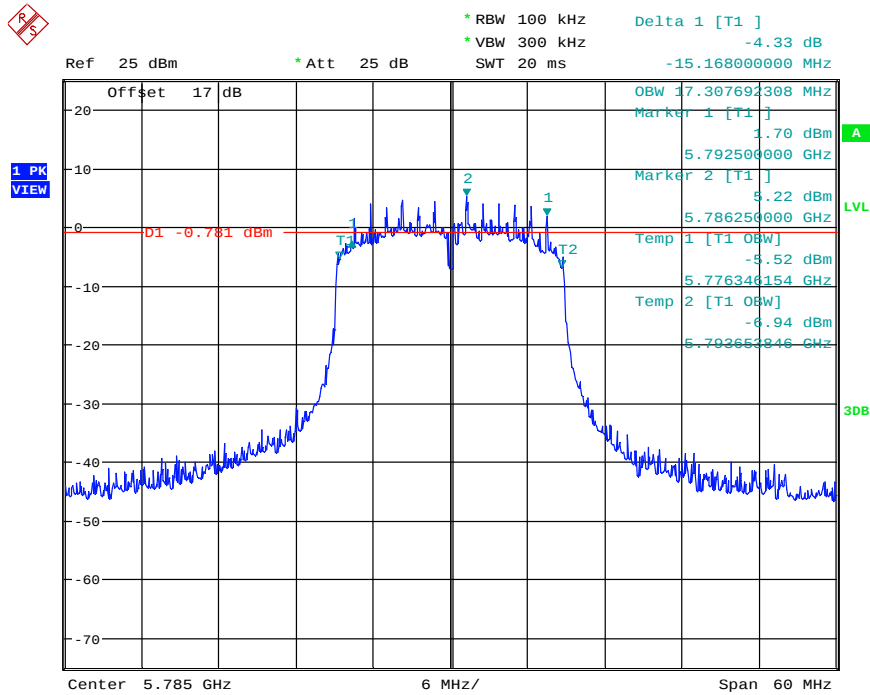
99% OBW & 6DB BANDWIDTH ANT2_11a_CH165
Date: 22.APR.2019 15:37:44



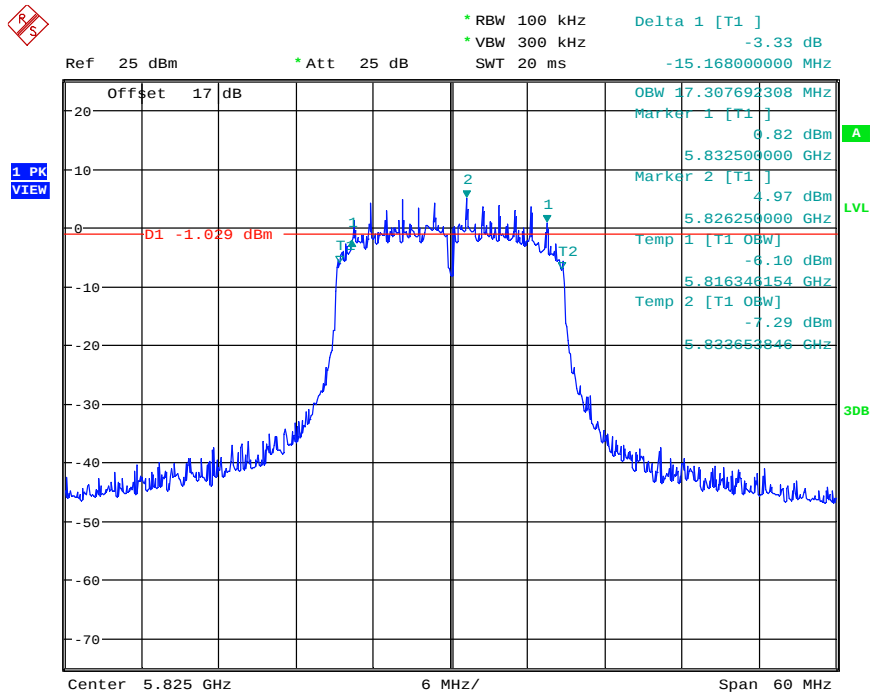
99% OBW & 6DB BANDWIDTH ANT2_11ac20_CH149
Date: 23.APR.2019 08:23:18



Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



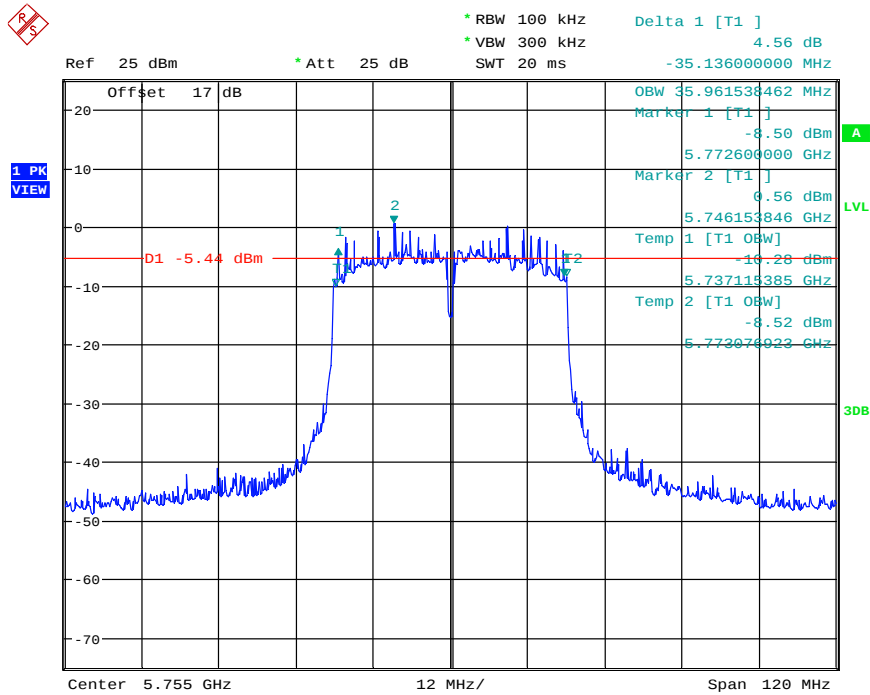
99% OBW & 6DB BANDWIDTH ANT2_11ac20_CH157
Date: 23.APR.2019 08:26:47



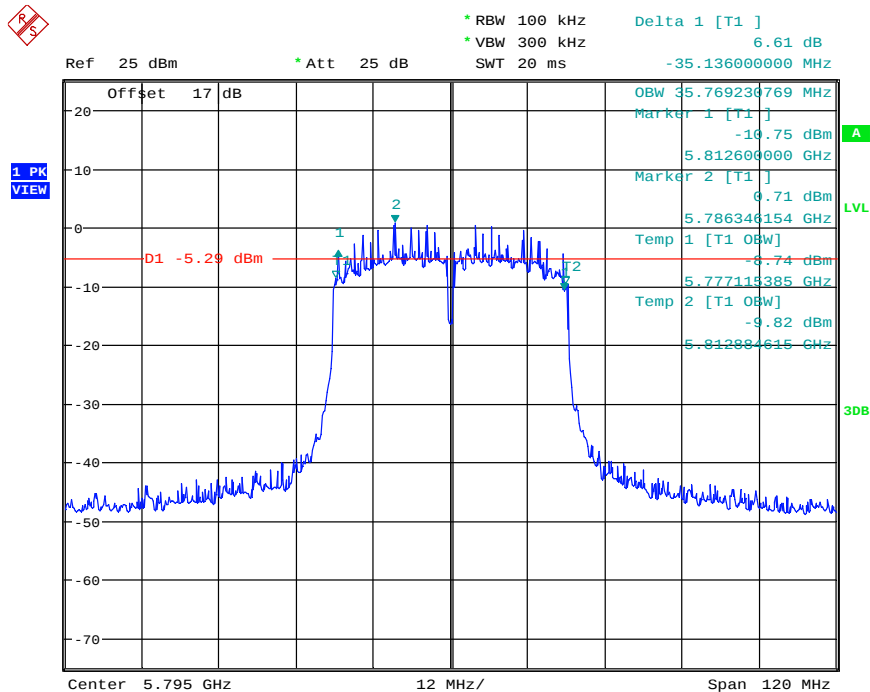
99% OBW & 6DB BANDWIDTH ANT2_11ac20_CH165
Date: 23.APR.2019 08:31:00



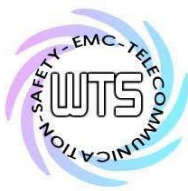
Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



99% OBW & 6DB BANDWIDTH ANT2_11ac40_CH151
Date: 23.APR.2019 08:41:27

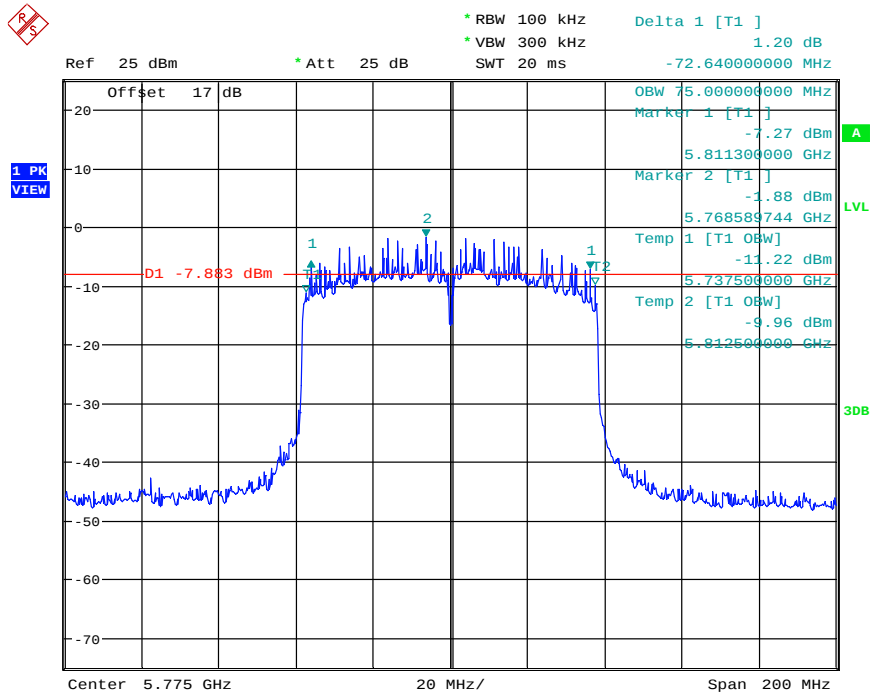


99% OBW & 6DB BANDWIDTH ANT2_11ac40_CH159
Date: 23.APR.2019 08:45:18



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



99% OBW & 6DB BANDWIDTH ANT2_11ac80_CH155

Date: 23.APR.2019 09:03:27

Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

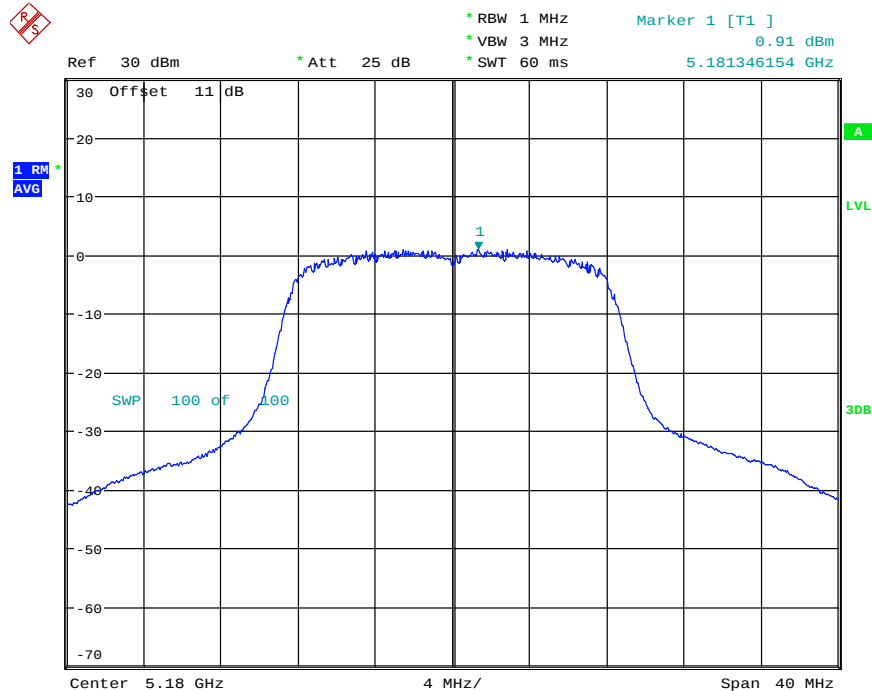
3.4 Peak Power Spectral Density, FCC 15.407 (a)

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm/MHz for master device and 11 dBm/MHz for mobile/portable client device.
2. For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the peak power spectral density shall not exceed 11 dBm/MHz.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm/500kHz.

ANTA

5.15 GHz ~ 5.25 GHz



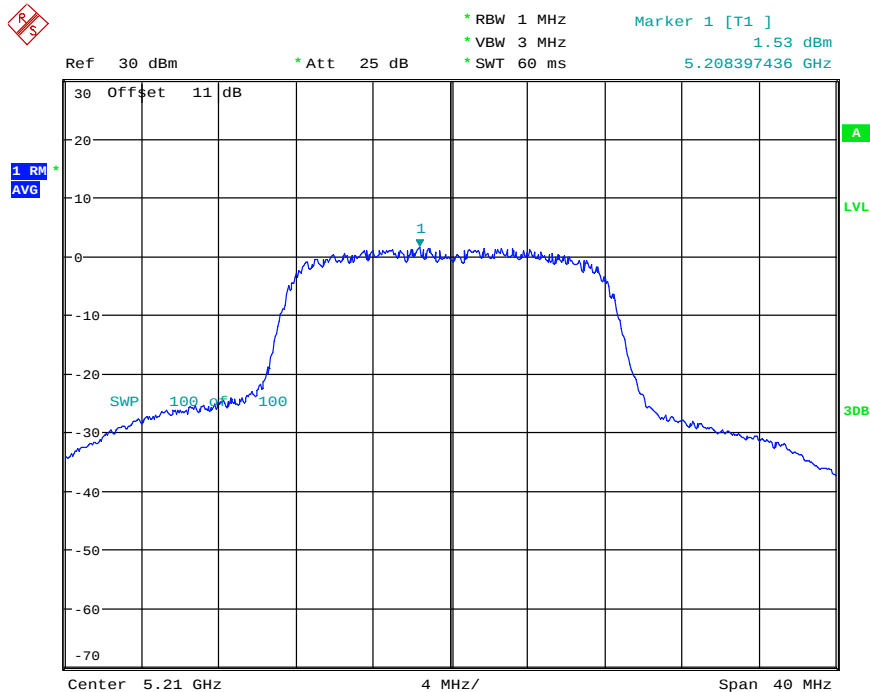
POWER DENSITY AV ANT111aCH36

Date: 22.APR.2019 10:35:14



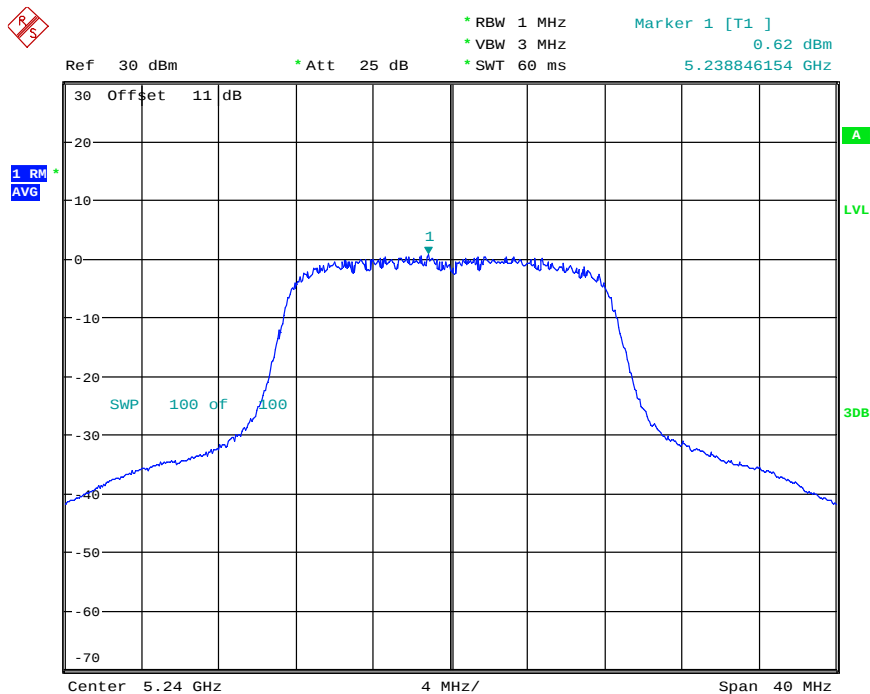
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111aCH44

Date: 3.JUN.2019 09:20:49



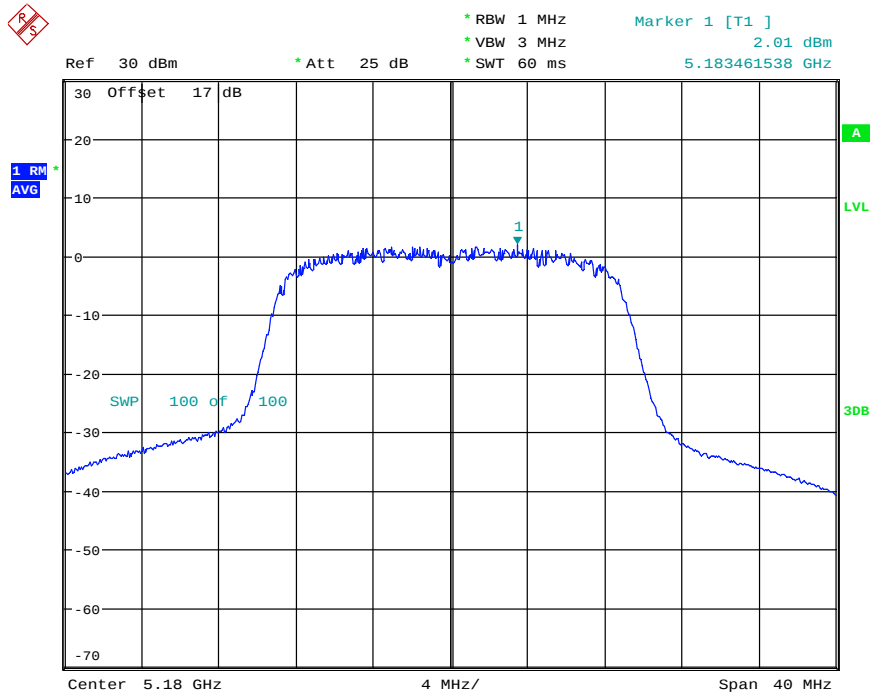
POWER DENSITY AV ANT111aCH48

Date: 22.APR.2019 10:58:51



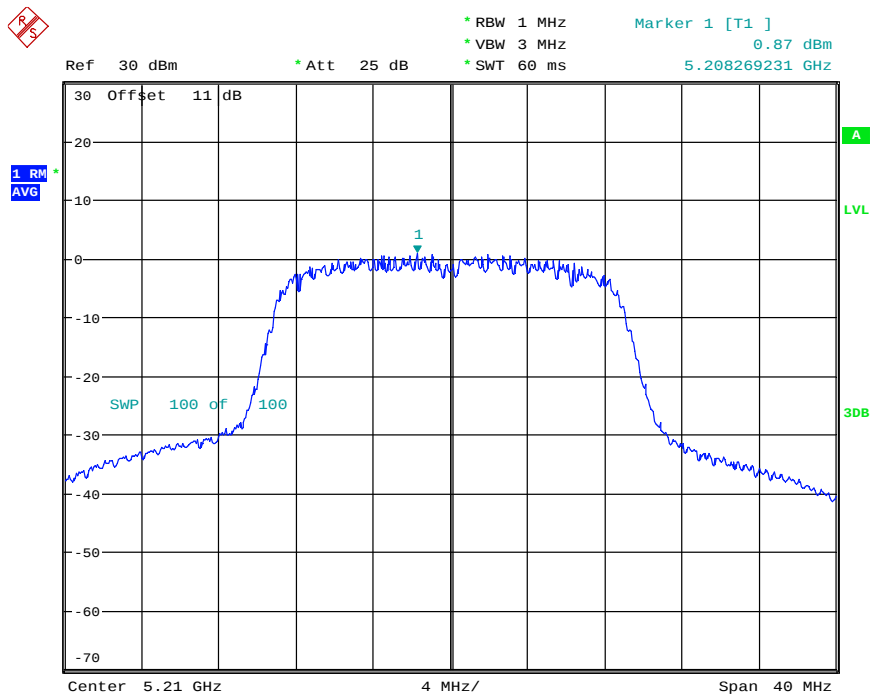
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH36

Date: 22.APR.2019 11:49:46



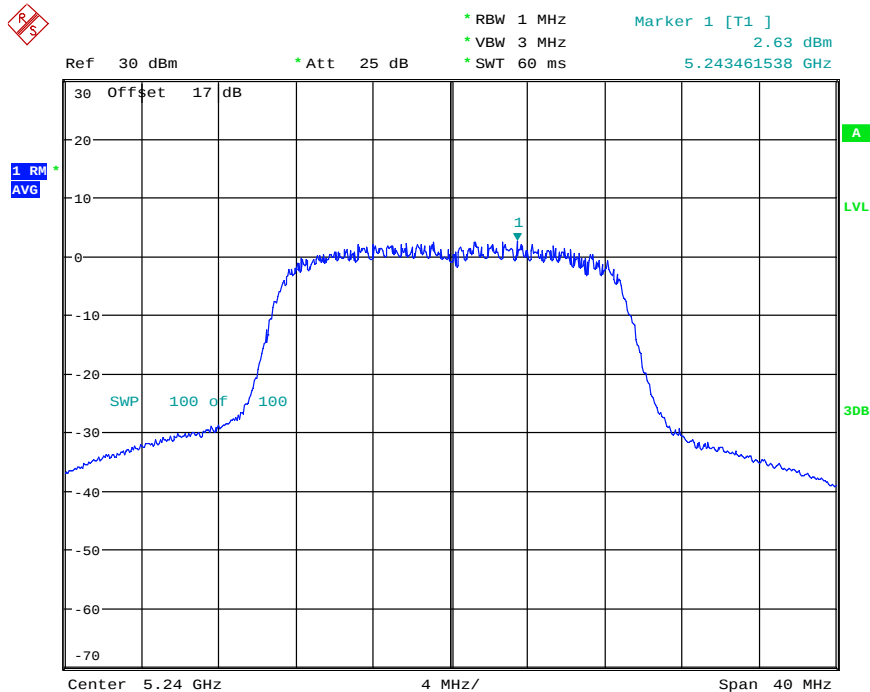
POWER DENSITY AV ANT1 11ac20CH44

Date: 3.JUN.2019 09:43:34



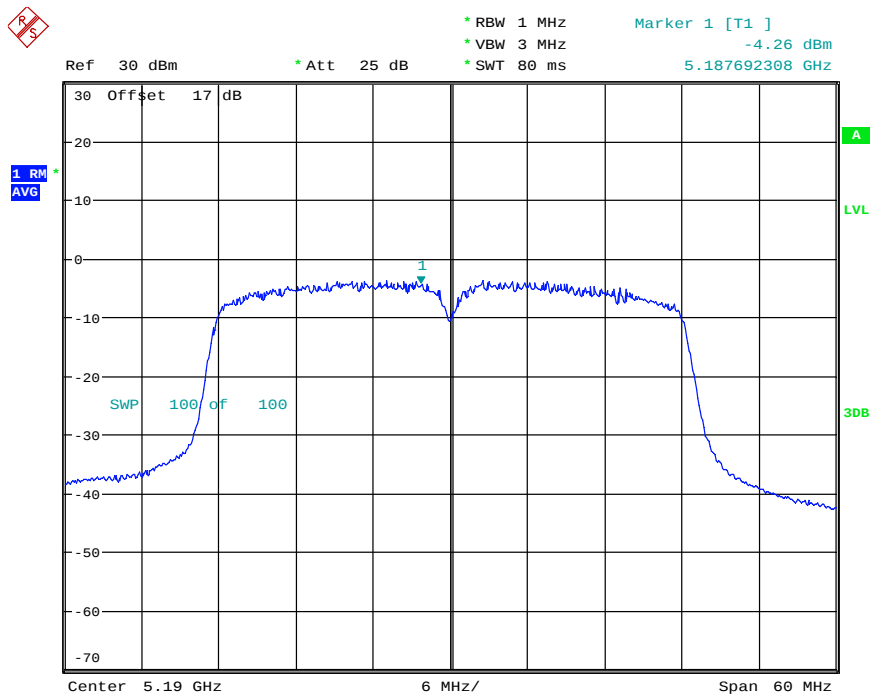
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH48

Date: 22.APR.2019 11:59:12



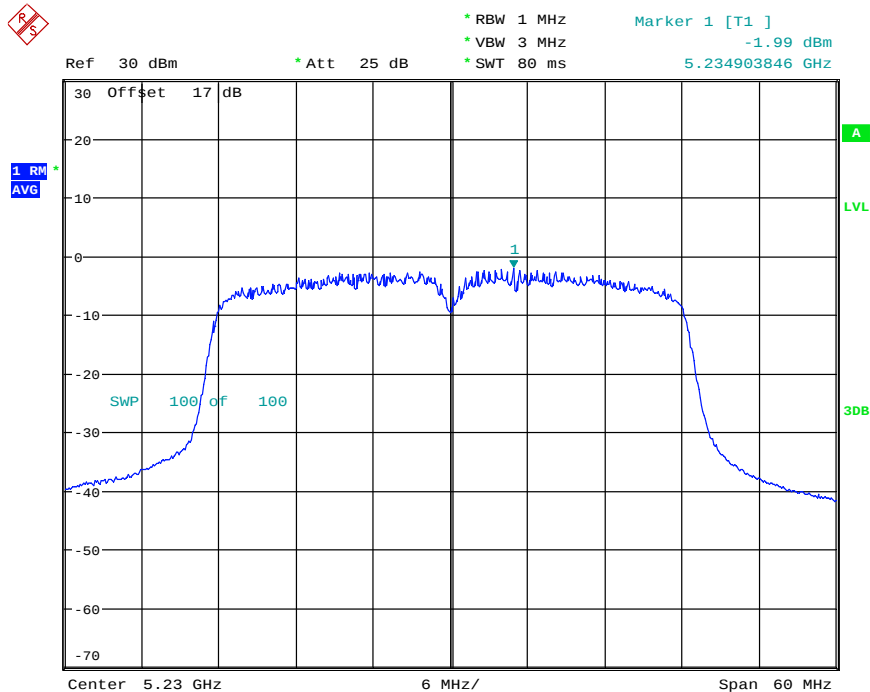
POWER DENSITY AV ANT111ac40CH38

Date: 22.APR.2019 13:24:42



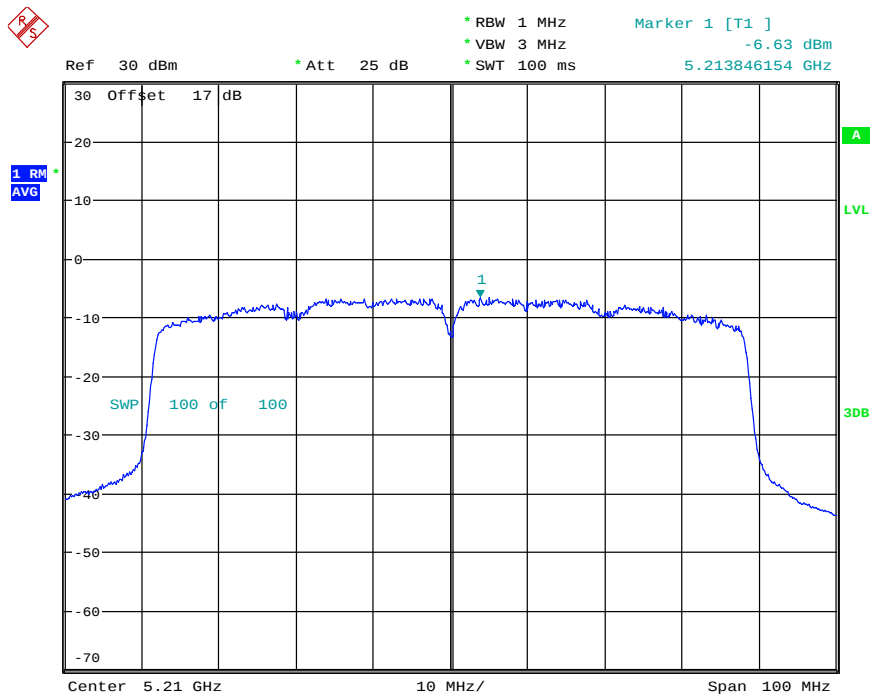
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111ac40CH46

Date: 22.APR.2019 13:30:34



POWER DENSITY AV ANT111ac80CH42

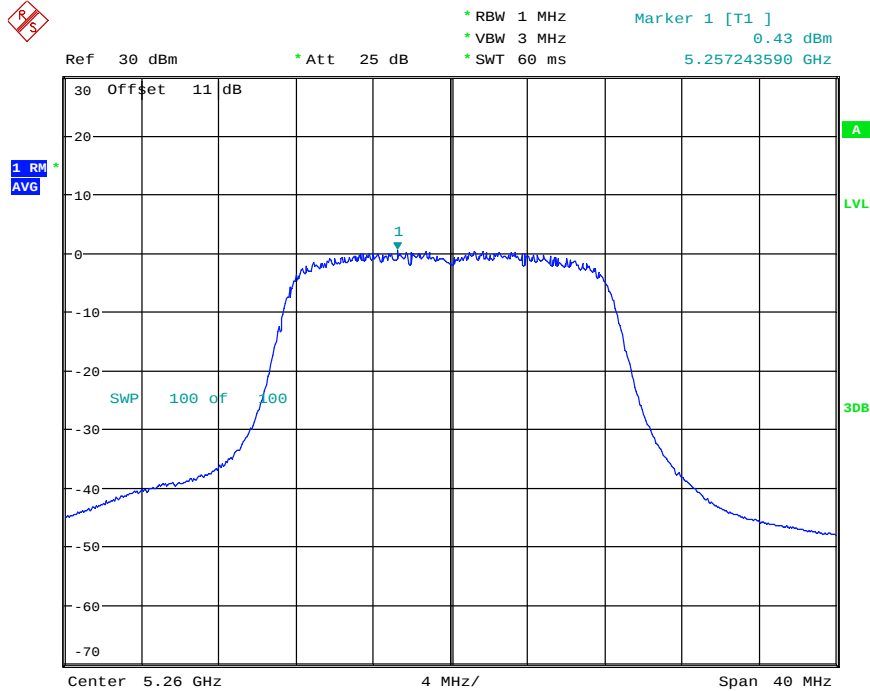
Date: 22.APR.2019 13:43:20



Registration number: W6M21903-18857-C-54

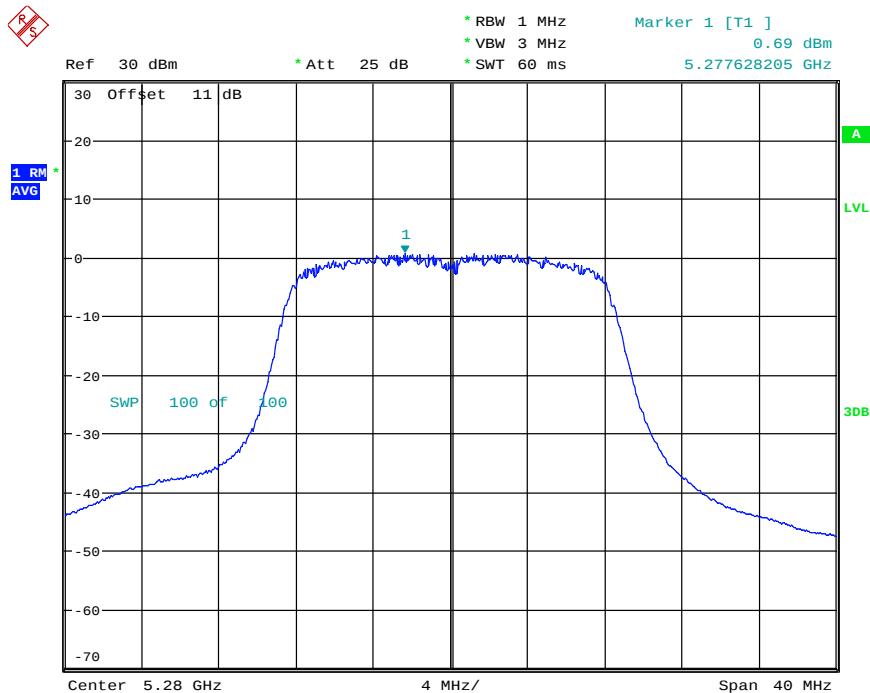
FCC ID: YY3-182010

5.25 GHz ~ 5.35 GHz



POWER DENSITY AV ANT111aCH52

Date: 22.APR.2019 11:00:41



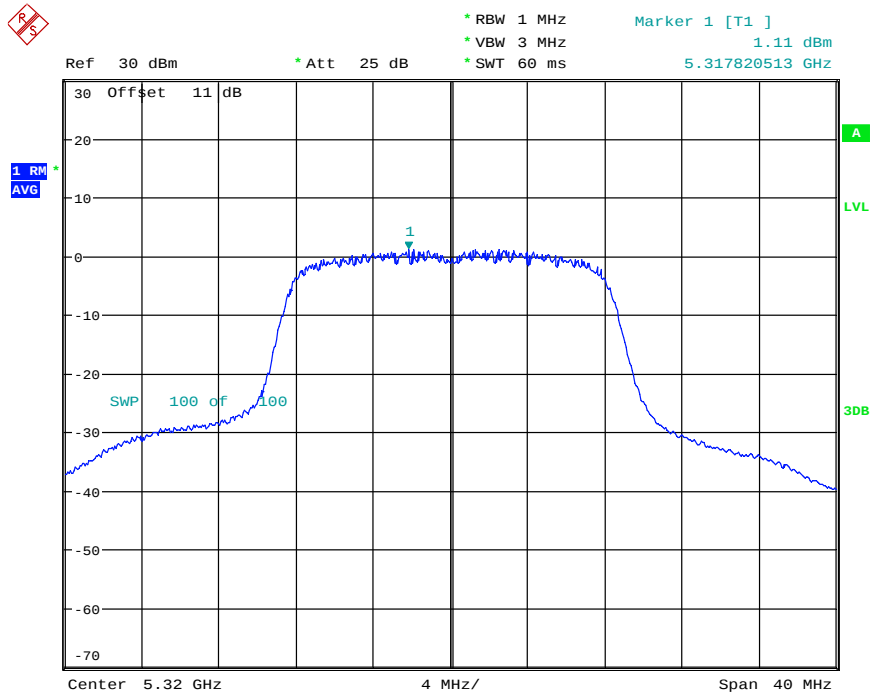
POWER DENSITY AV ANT111aCH56

Date: 22.APR.2019 11:04:35



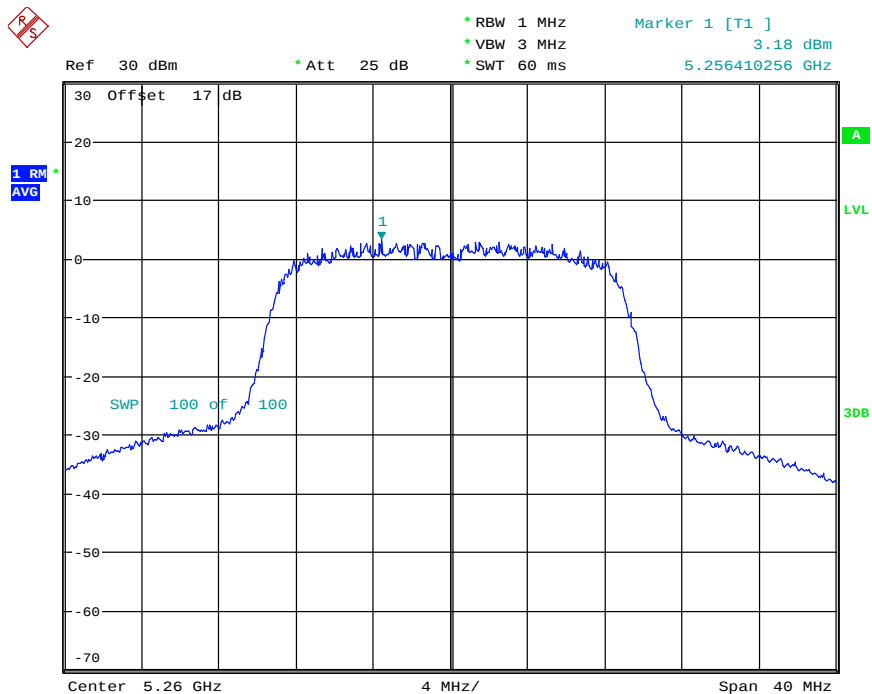
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111aCH64

Date: 22.APR.2019 11:07:57



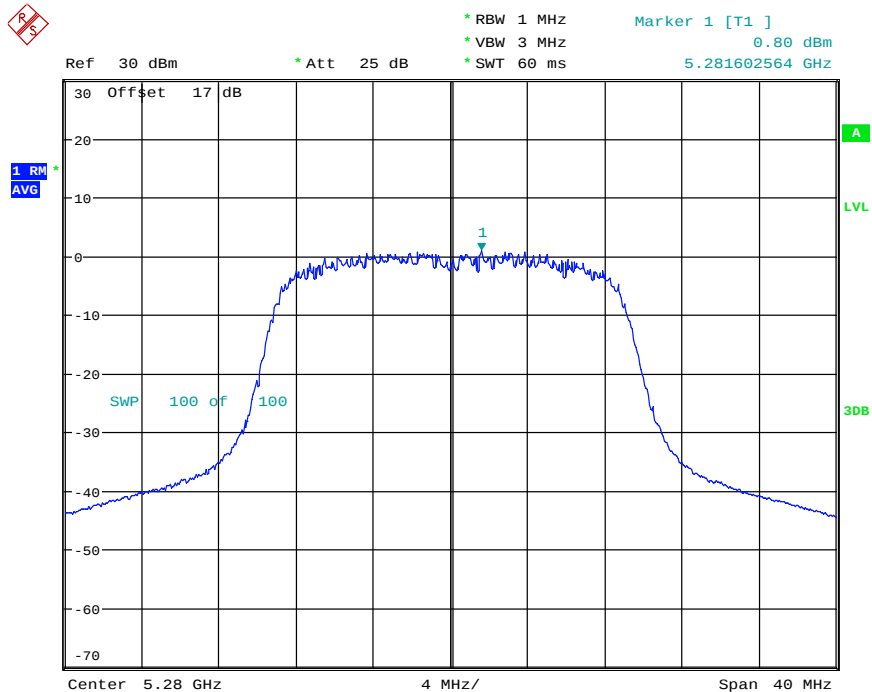
POWER DENSITY AV ANT1 11ac20CH52

Date: 22.APR.2019 13:10:09



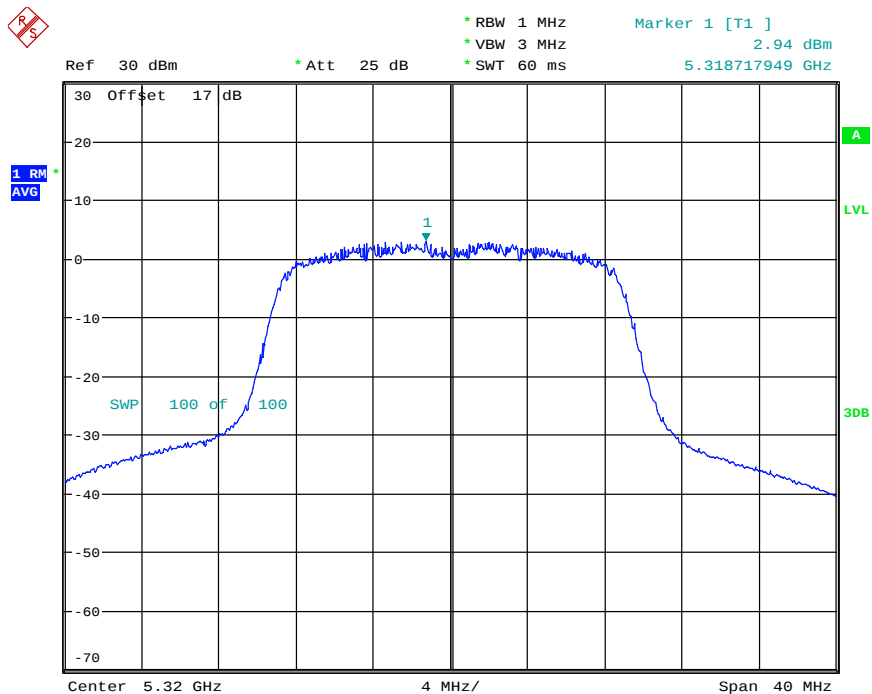
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH56

Date: 22.APR.2019 13:13:37



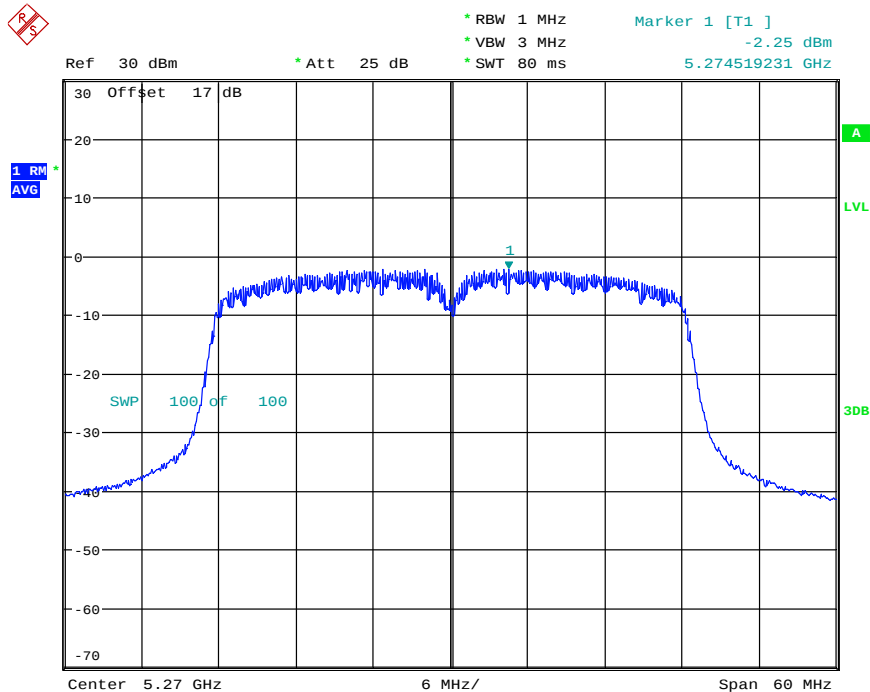
POWER DENSITY AV ANT1 11ac20CH64

Date: 22.APR.2019 13:17:51



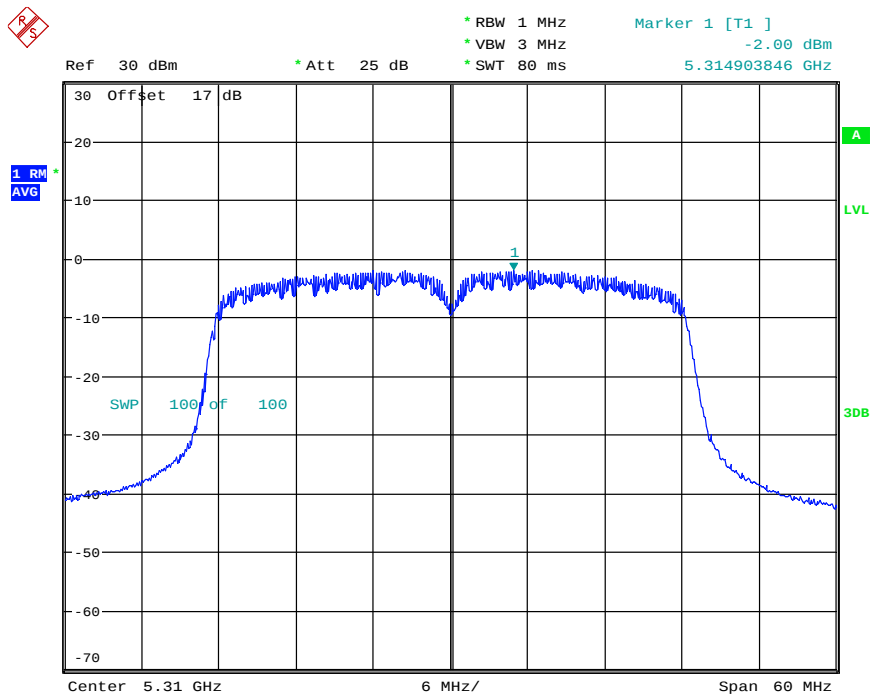
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111ac40CH54

Date: 22.APR.2019 13:34:34



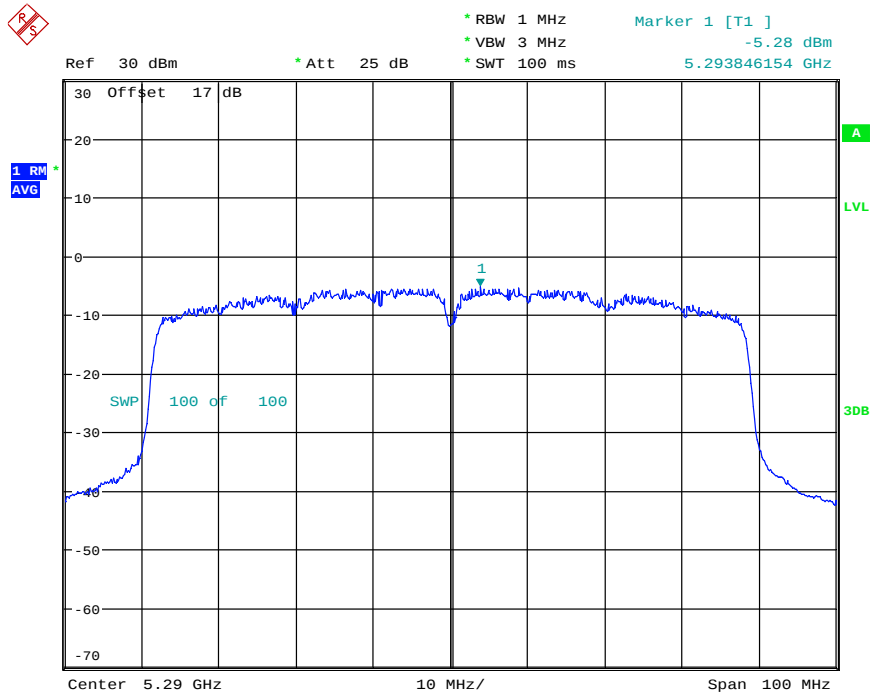
POWER DENSITY AV ANT111ac40CH62

Date: 22.APR.2019 13:38:12



Registration number: W6M21903-18857-C-54

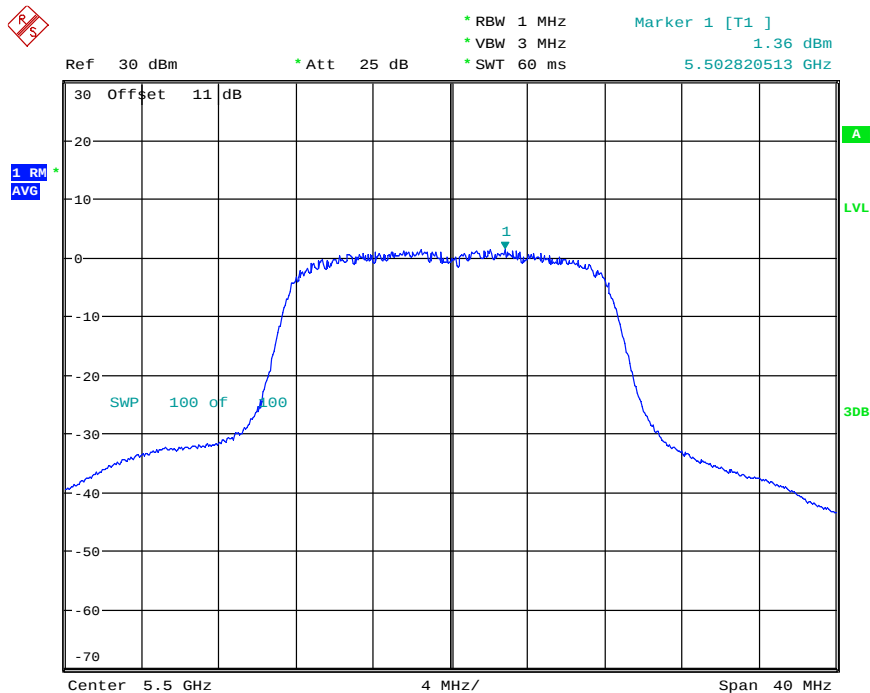
FCC ID: YY3-182010



POWER DENSITY AV ANT111ac80CH58

Date: 22.APR.2019 13:49:26

5.47 GHz ~ 5.725 GHz



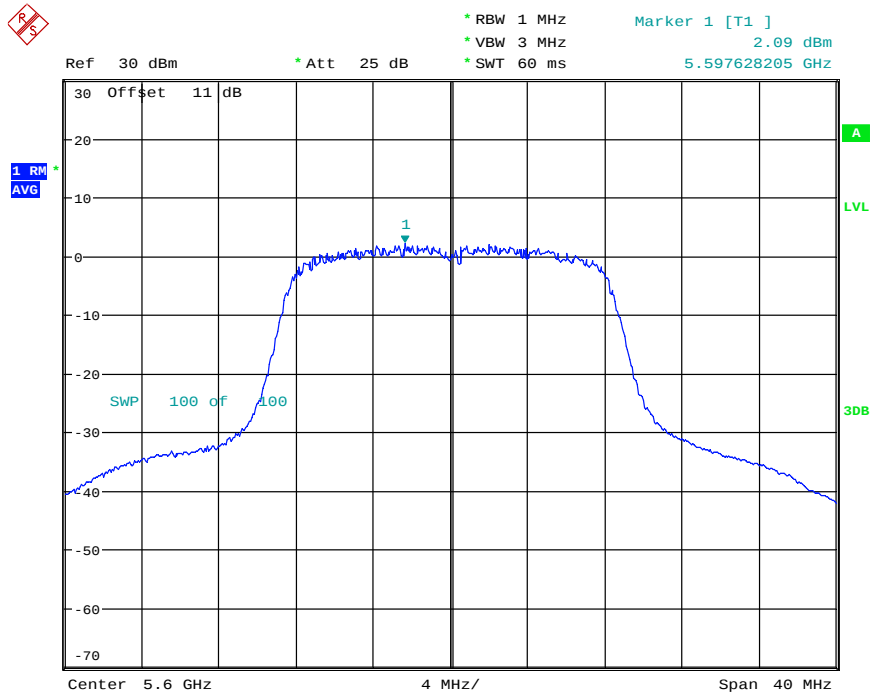
POWER DENSITY AV ANT111aCH100

Date: 22.APR.2019 14:06:16



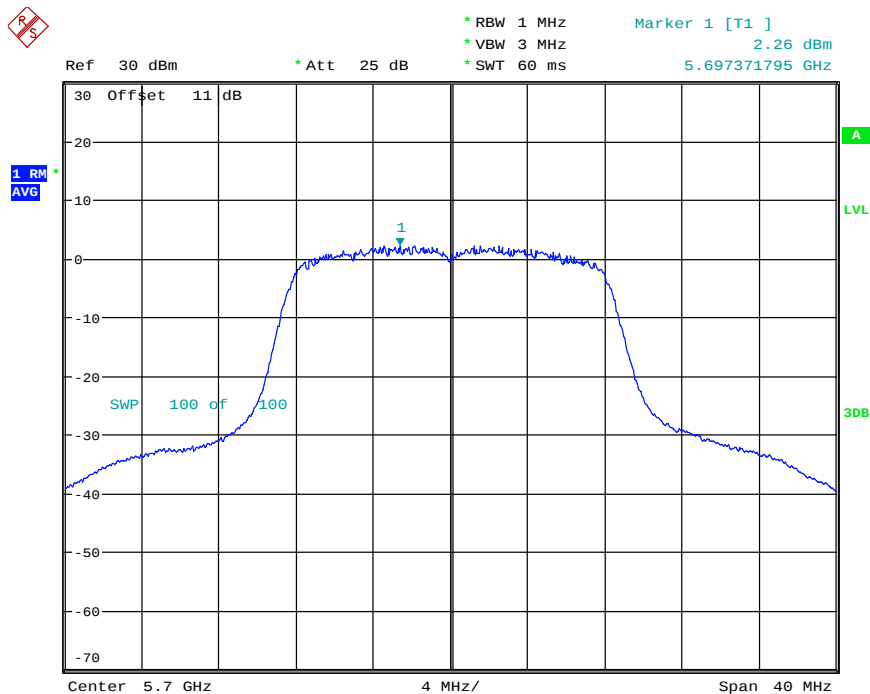
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111aCH120

Date: 22.APR.2019 14:11:15



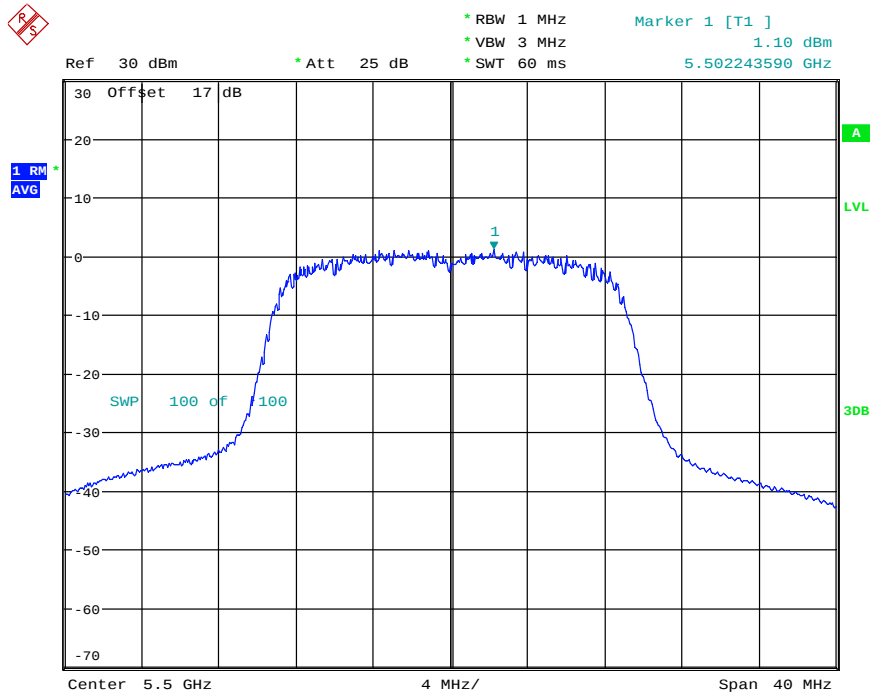
POWER DENSITY AV ANT111aCH140

Date: 22.APR.2019 14:21:59



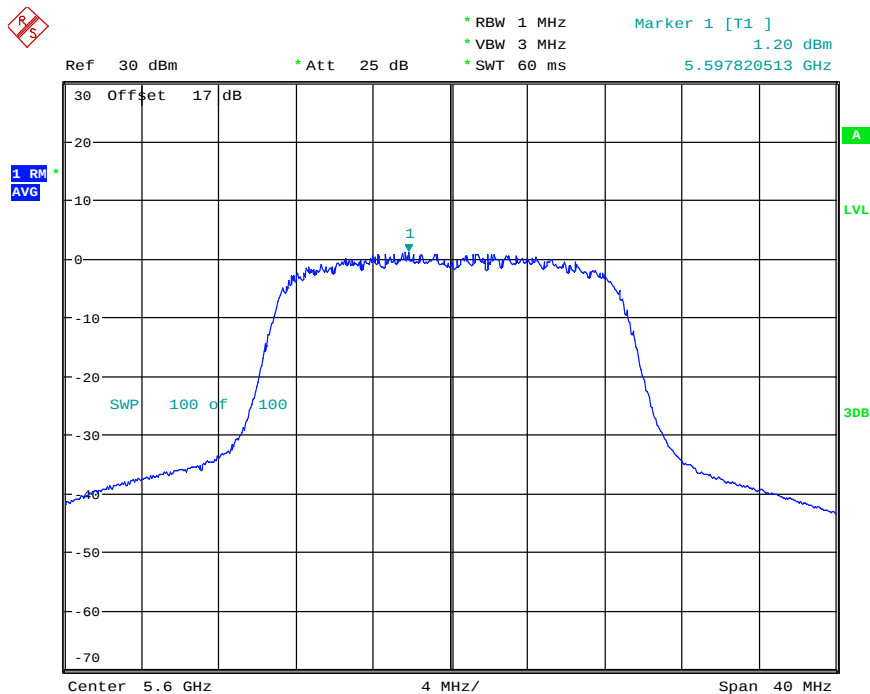
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH100

Date: 23.APR.2019 09:24:26



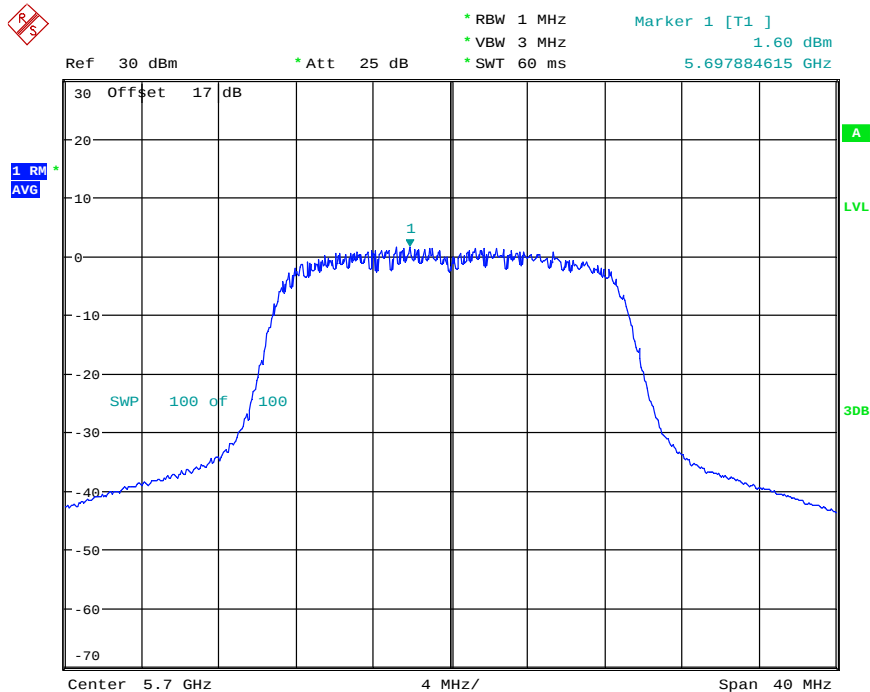
POWER DENSITY AV ANT1 11ac20CH120

Date: 23.APR.2019 09:34:04



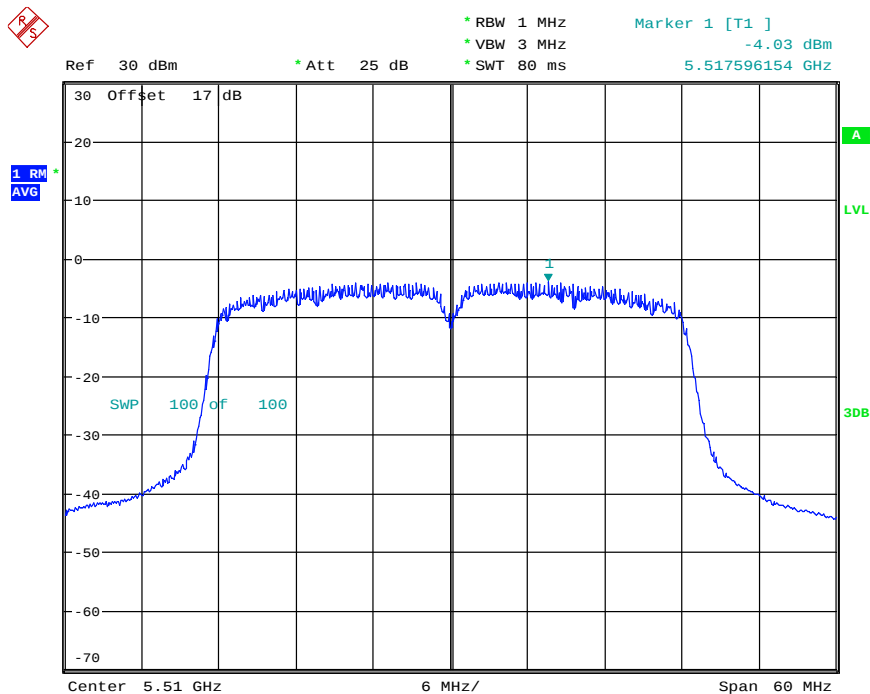
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH140

Date: 23.APR.2019 09:36:40



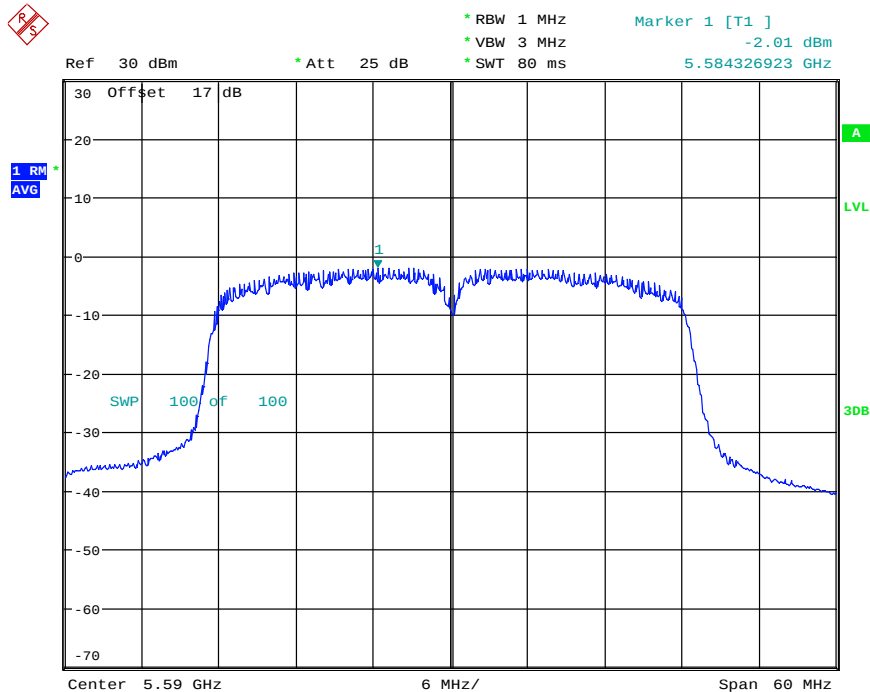
POWER DENSITY AV ANT11ac40CH102

Date: 23.APR.2019 09:41:27



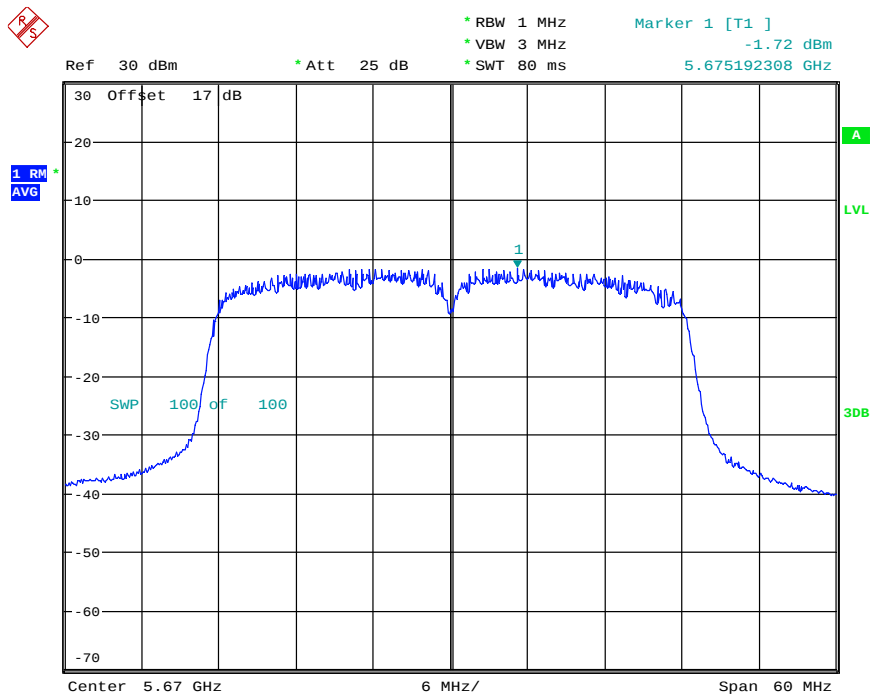
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111ac40CH118

Date: 23.APR.2019 09:44:49



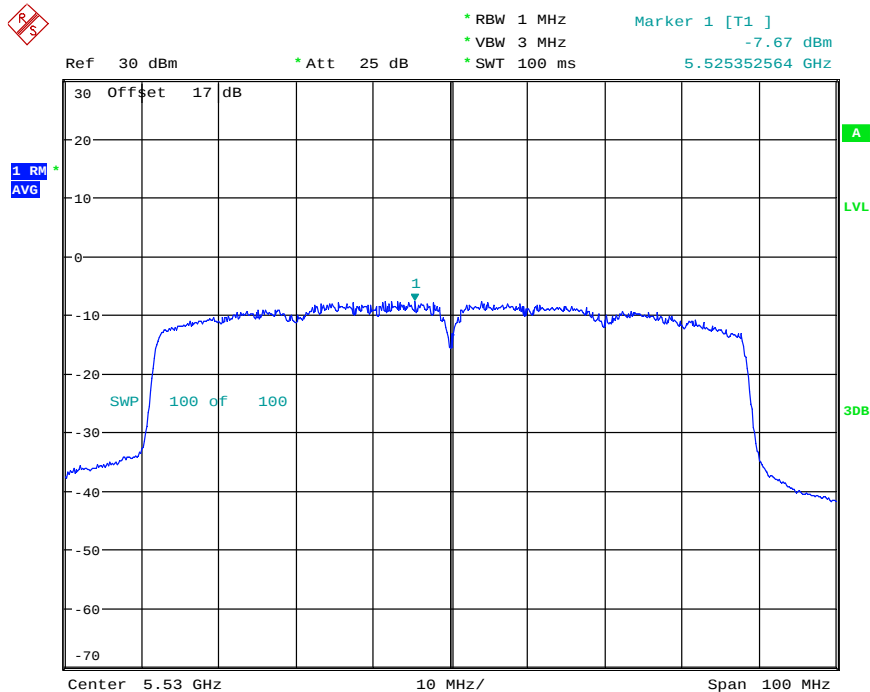
POWER DENSITY AV ANT111ac40CH134

Date: 23.APR.2019 09:50:12



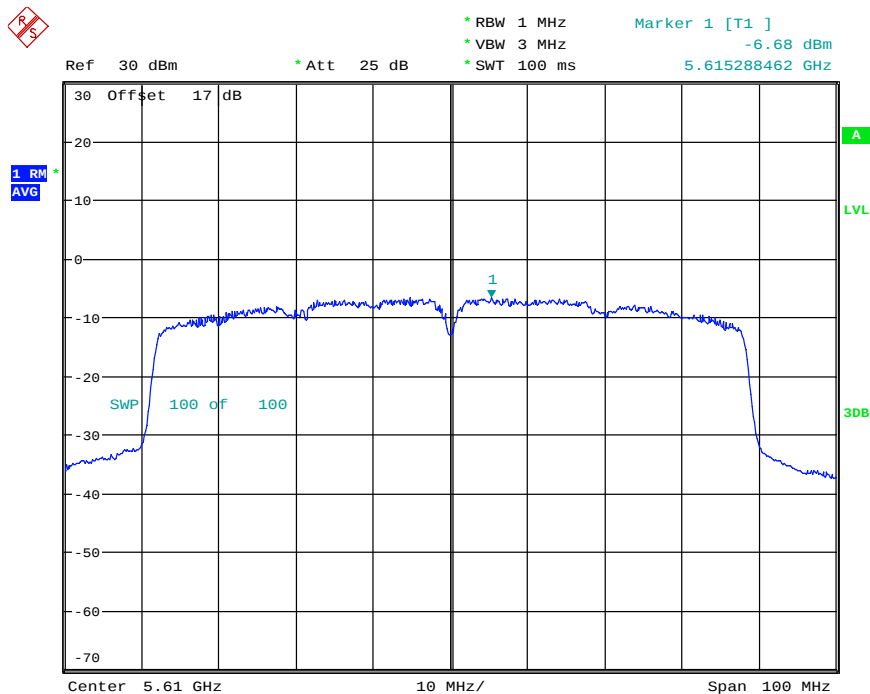
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT111ac80CH106

Date: 22.APR.2019 15:19:49



POWER DENSITY AV ANT111ac80CH122

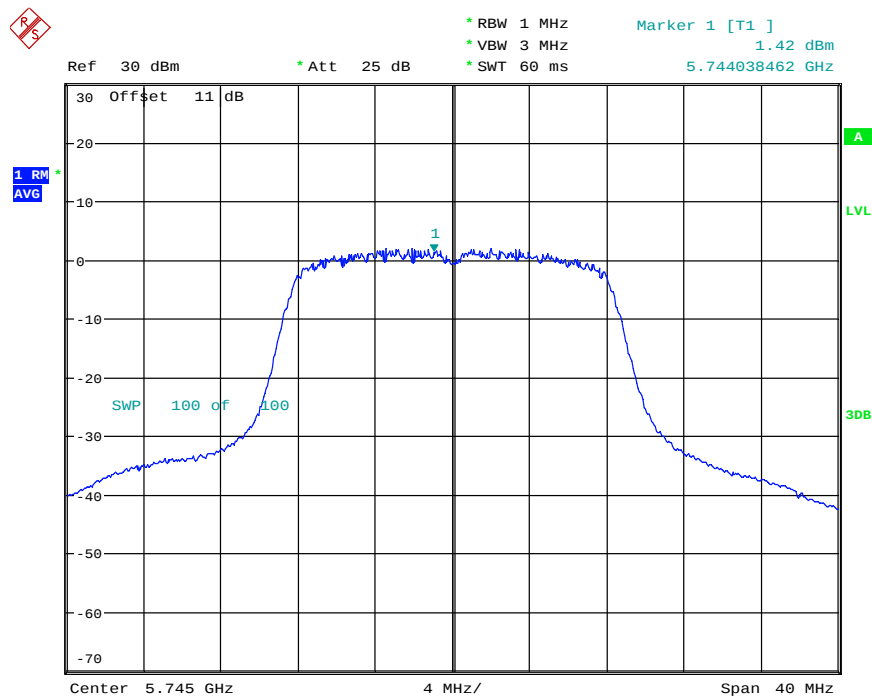
Date: 22.APR.2019 15:22:13



Registration number: W6M21903-18857-C-54

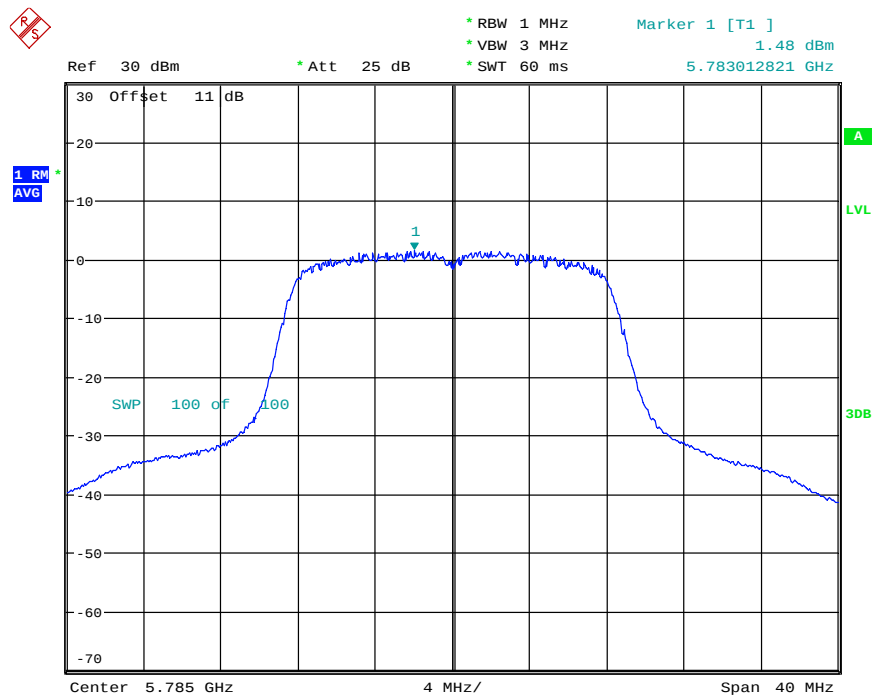
FCC ID: YY3-182010

5.725 GHz ~ 5.85 GHz



POWER DENSITY AV ANT111aCH149

Date: 22.APR.2019 15:28:17



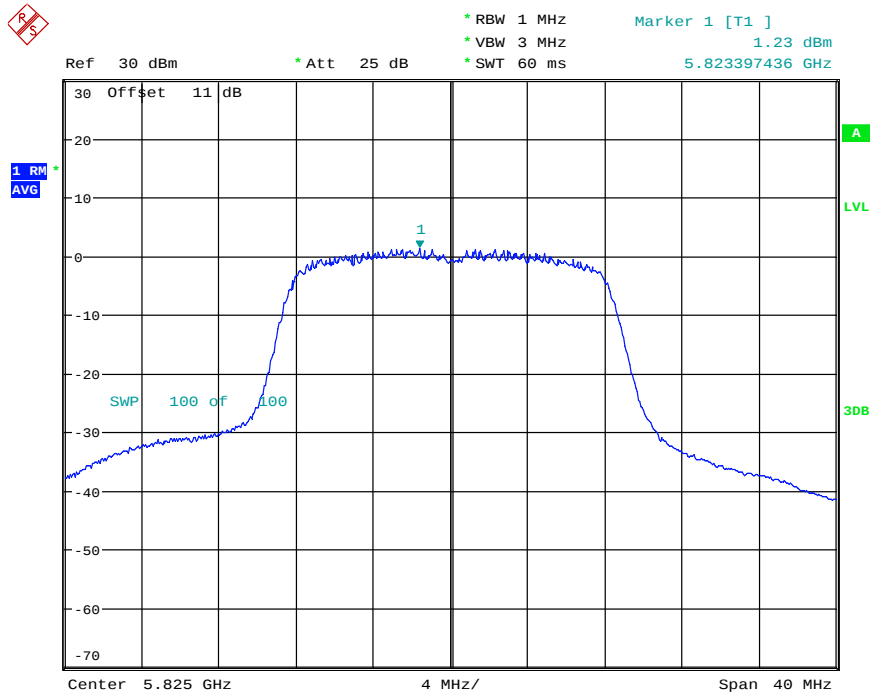
POWER DENSITY AV ANT111aCH157

Date: 22.APR.2019 15:33:35



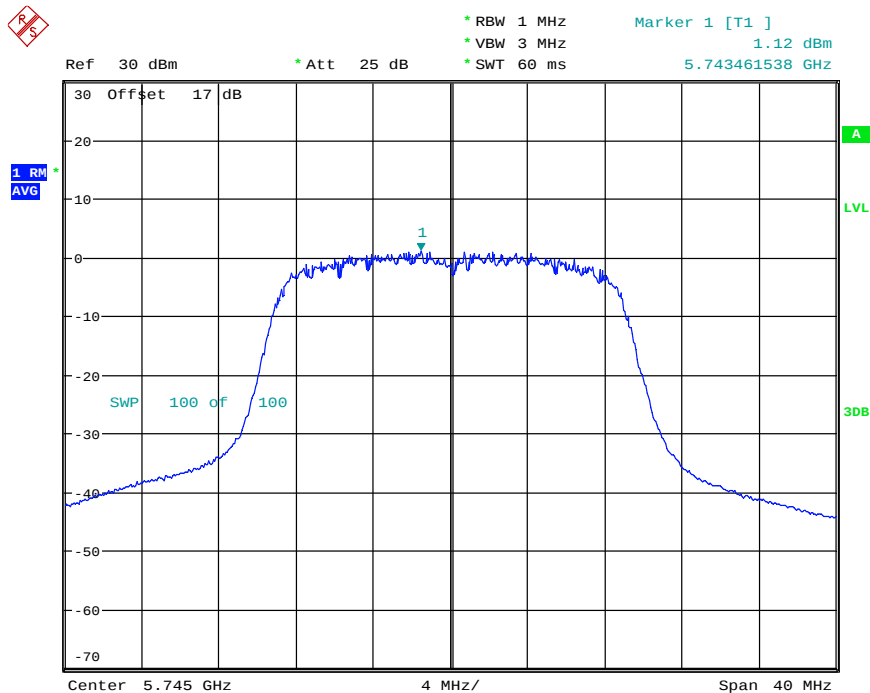
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



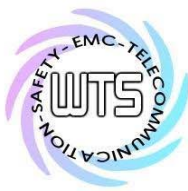
POWER DENSITY AV ANT111aCH165

Date: 22.APR.2019 15:35:52



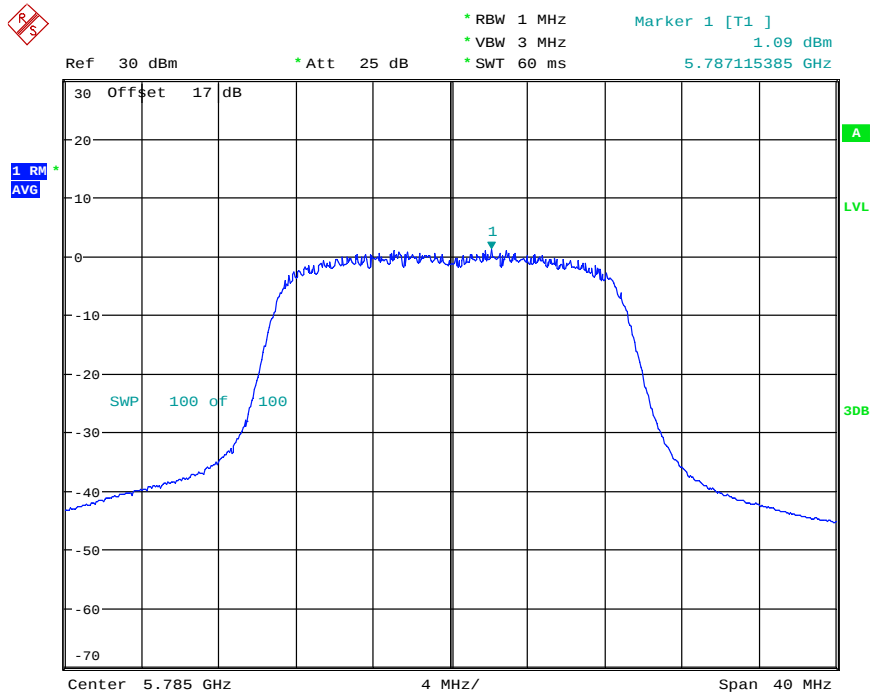
POWER DENSITY AV ANT1 11ac20CH149

Date: 23.APR.2019 08:21:36



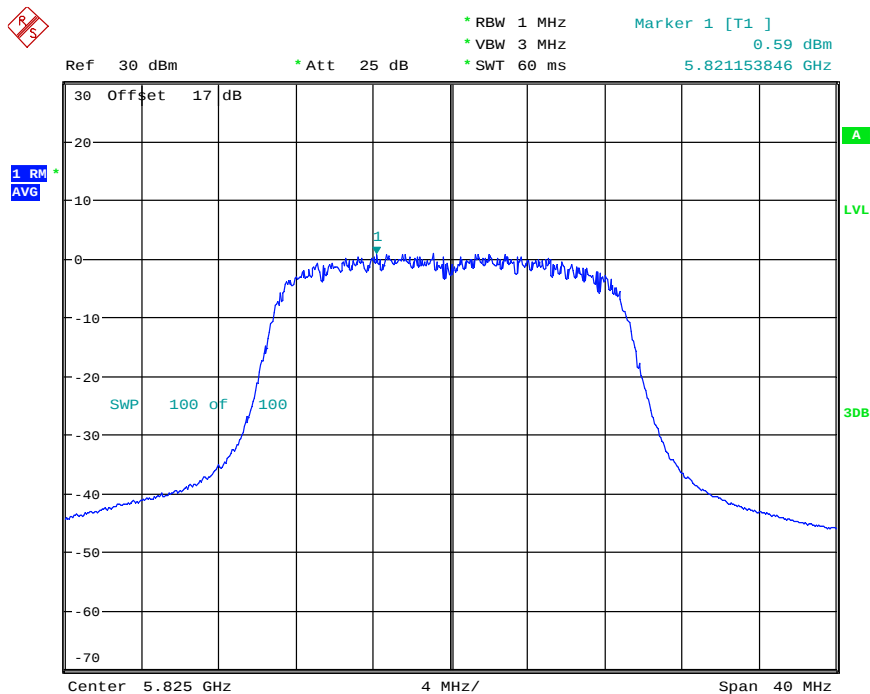
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT1 11ac20CH157

Date: 23.APR.2019 08:25:04



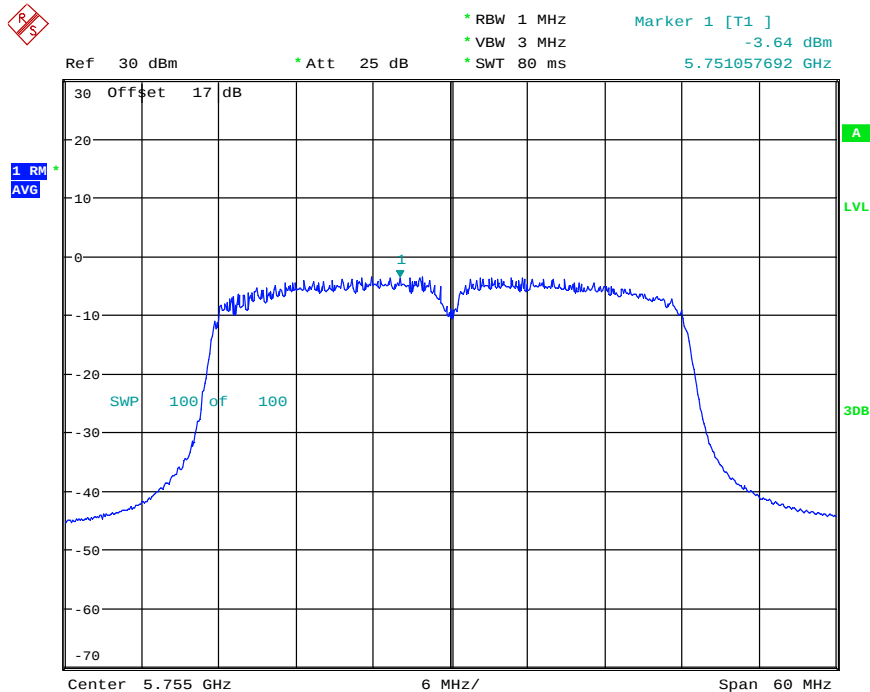
POWER DENSITY AV ANT1 11ac20CH165

Date: 23.APR.2019 08:29:11



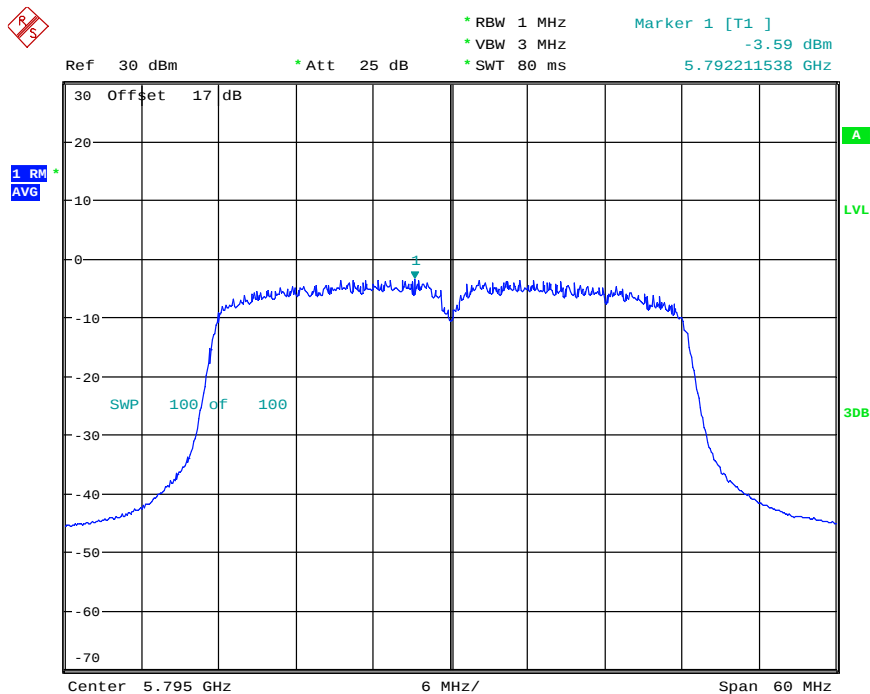
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



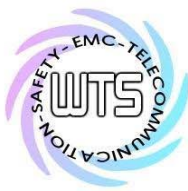
POWER DENSITY AV ANT111ac40CH151

Date: 23.APR.2019 08:39:42

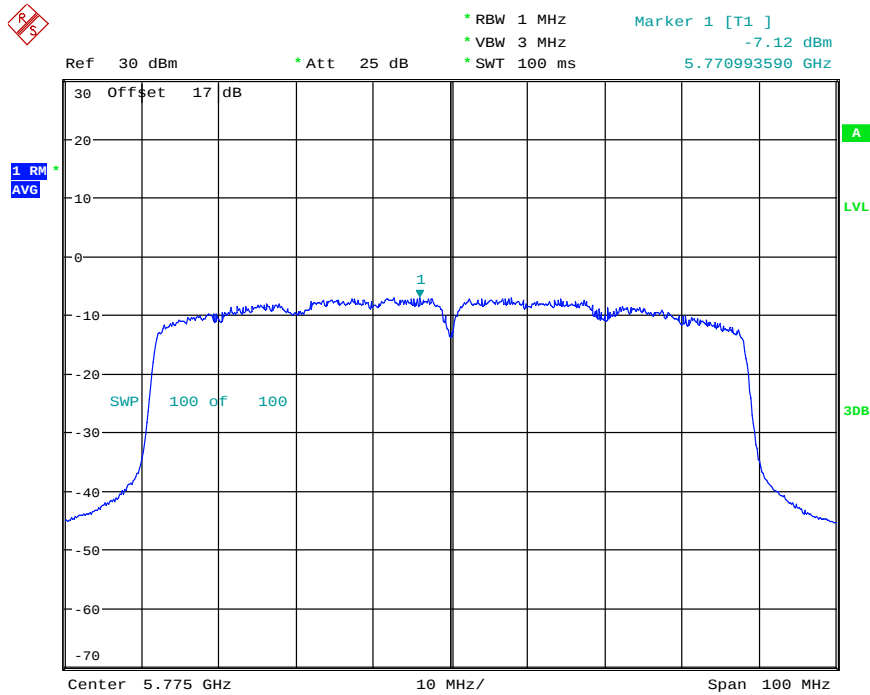


POWER DENSITY AV ANT111ac40CH159

Date: 23.APR.2019 08:43:42

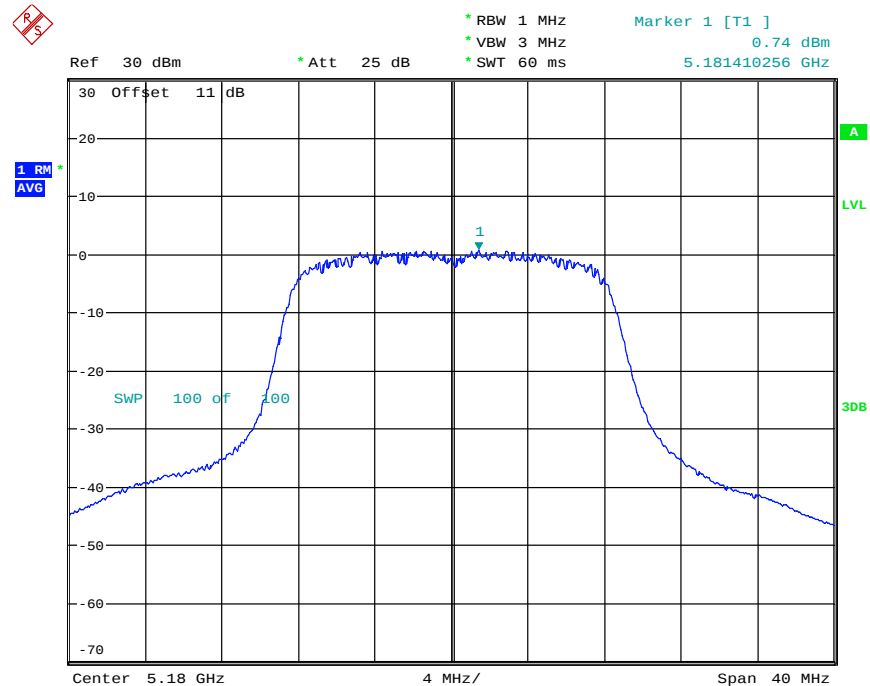


Registration number: W6M21903-18857-C-54
FCC ID: YY3-182010



POWER DENSITY AV ANT111ac80CH155
Date: 23.APR.2019 08:48:19

ANTB 5.15 GHz ~ 5.25 GHz

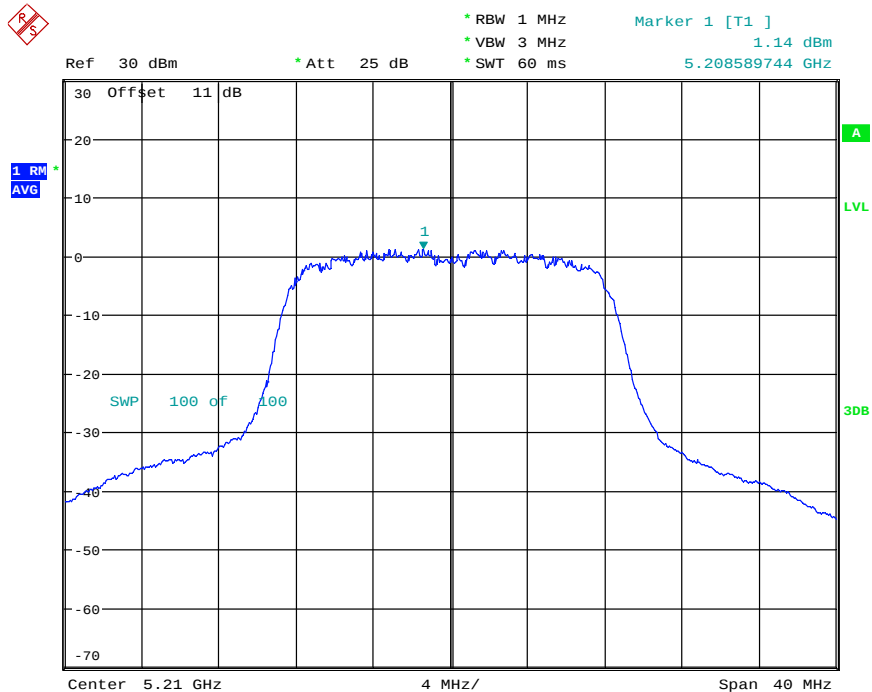


POWER DENSITY AV ANT211aCH36
Date: 22.APR.2019 09:36:44



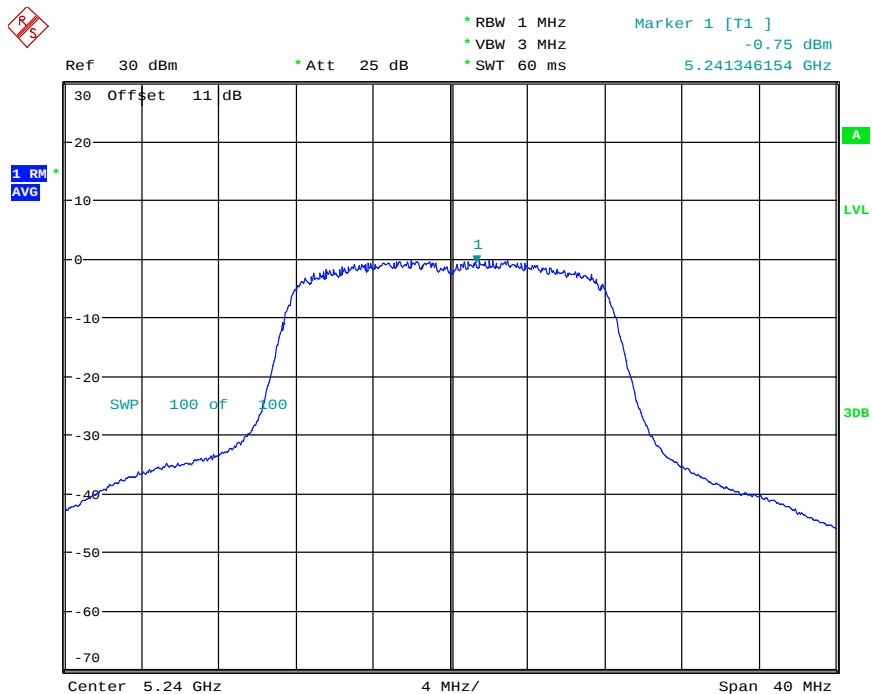
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211aCH44

Date: 3.JUN.2019 09:25:15



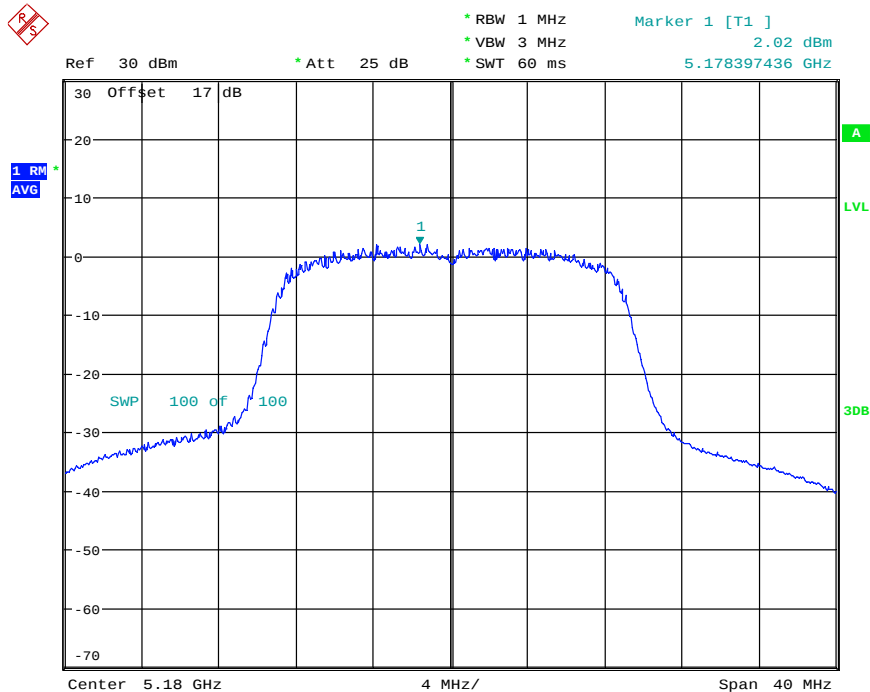
POWER DENSITY AV ANT211aCH48

Date: 22.APR.2019 10:57:00



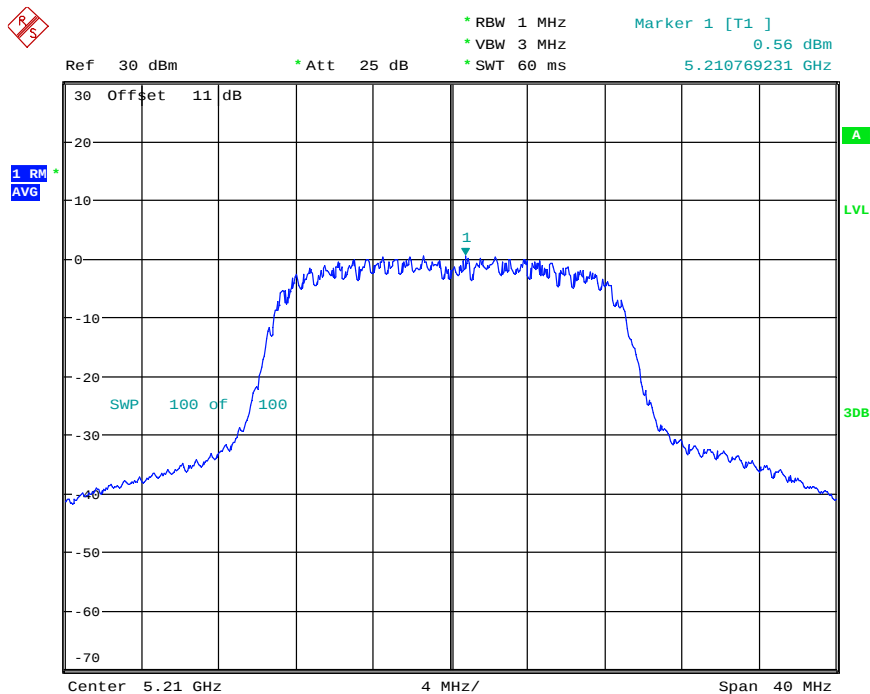
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH36

Date: 22.APR.2019 11:51:10



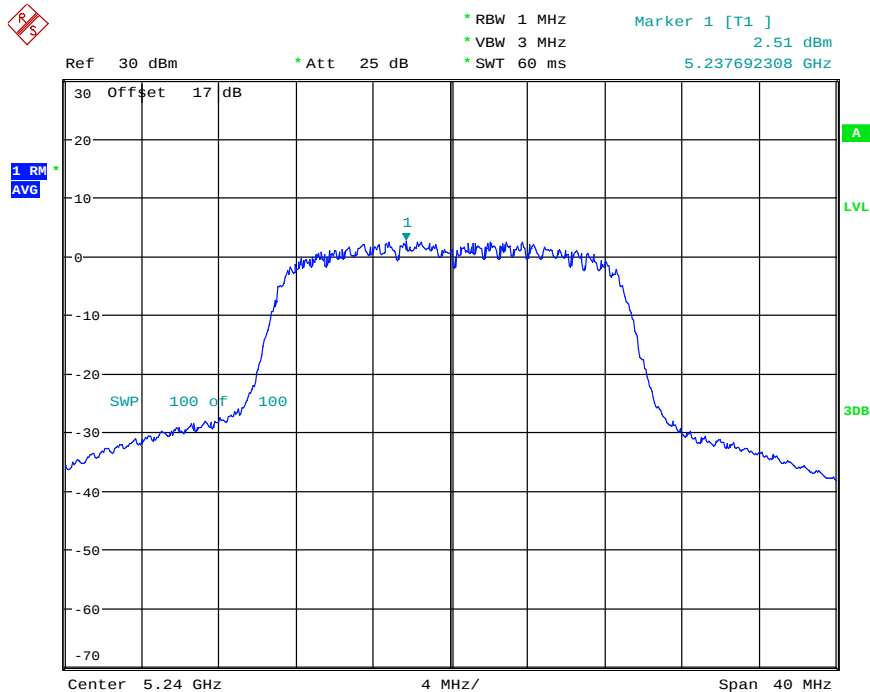
POWER DENSITY AV ANT2 11ac20CH44

Date: 3.JUN.2019 09:46:29



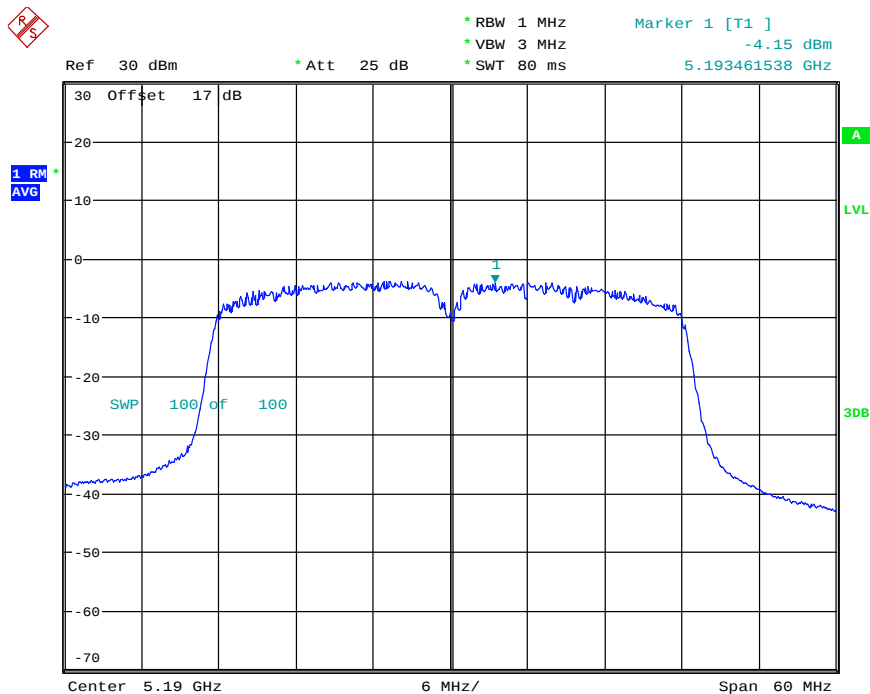
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH48

Date: 22.APR.2019 12:00:30



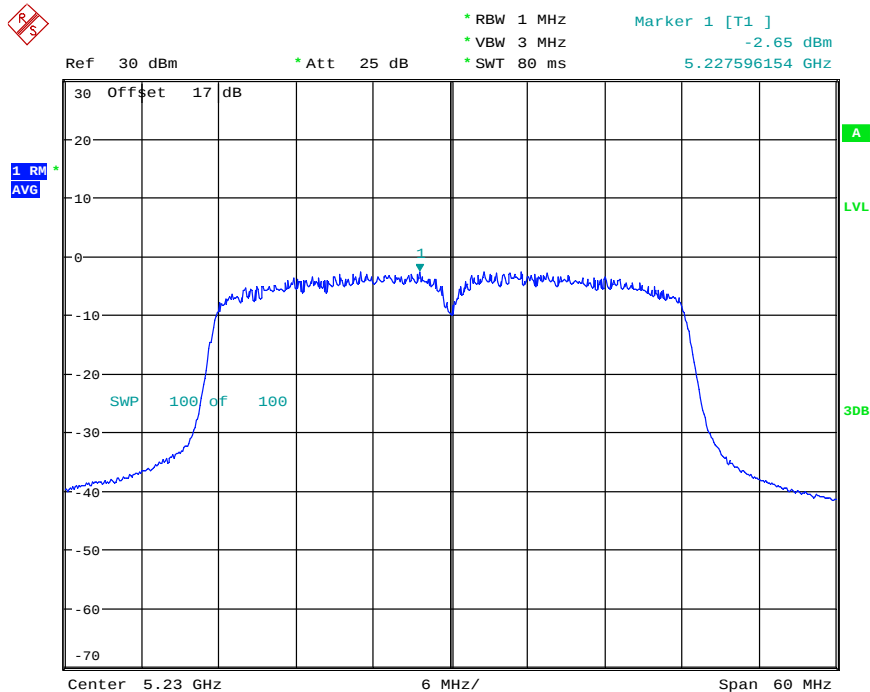
POWER DENSITY AV ANT211ac40CH38

Date: 22.APR.2019 13:26:42



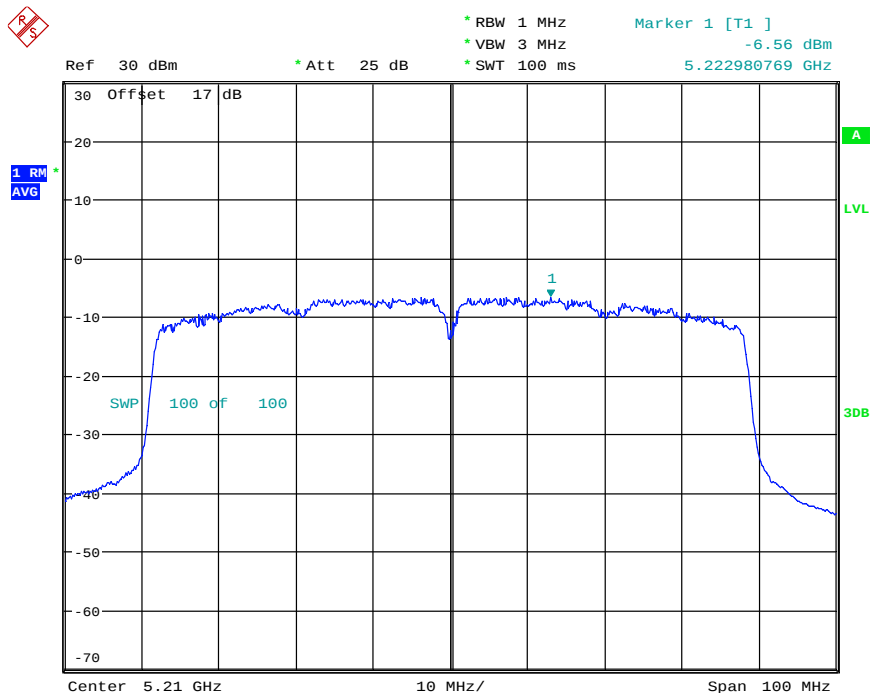
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac40CH46

Date: 22.APR.2019 13:32:12



POWER DENSITY AV ANT211ac80CH42

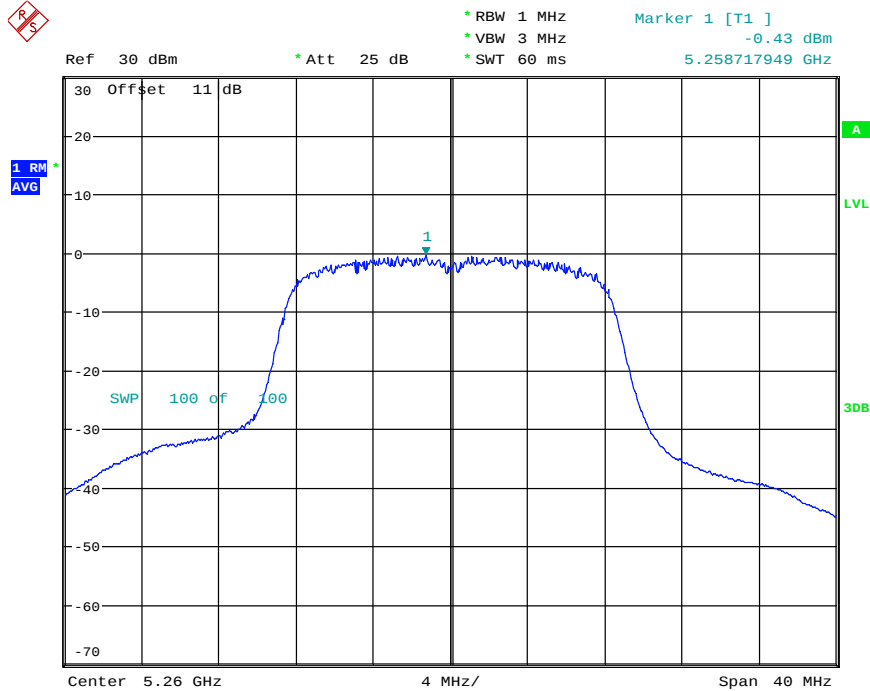
Date: 22.APR.2019 13:45:19



Registration number: W6M21903-18857-C-54

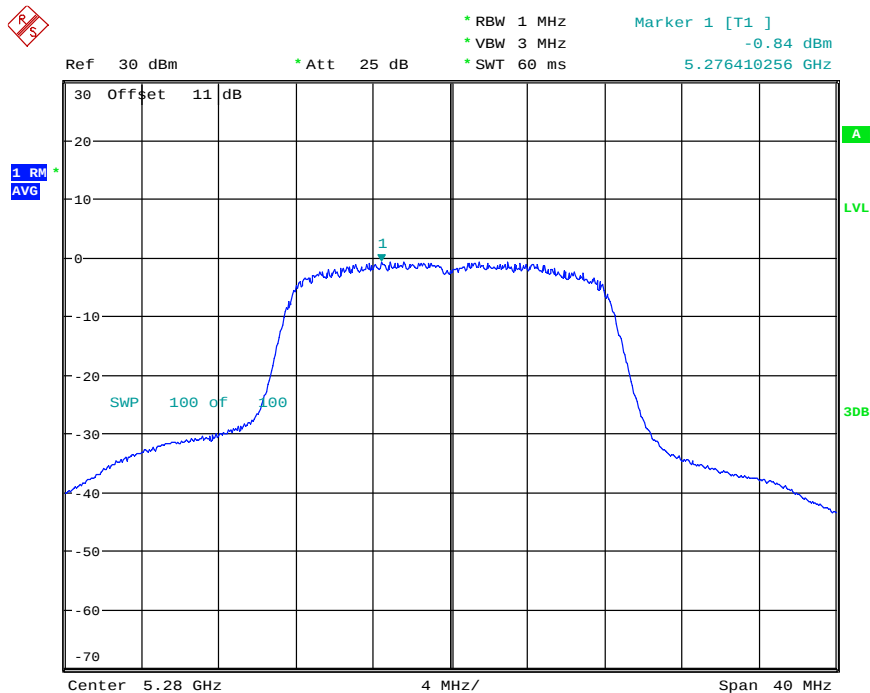
FCC ID: YY3-182010

5.25 GHz ~ 5.35 GHz



POWER DENSITY AV ANT211aCH52

Date: 22.APR.2019 11:02:12



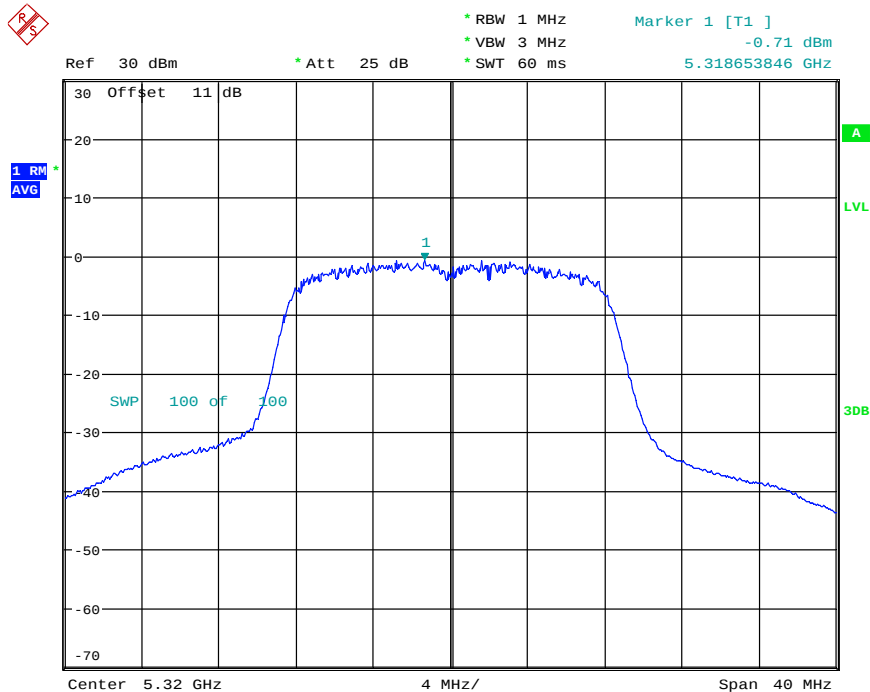
POWER DENSITY AV ANT211aCH56

Date: 22.APR.2019 11:06:06



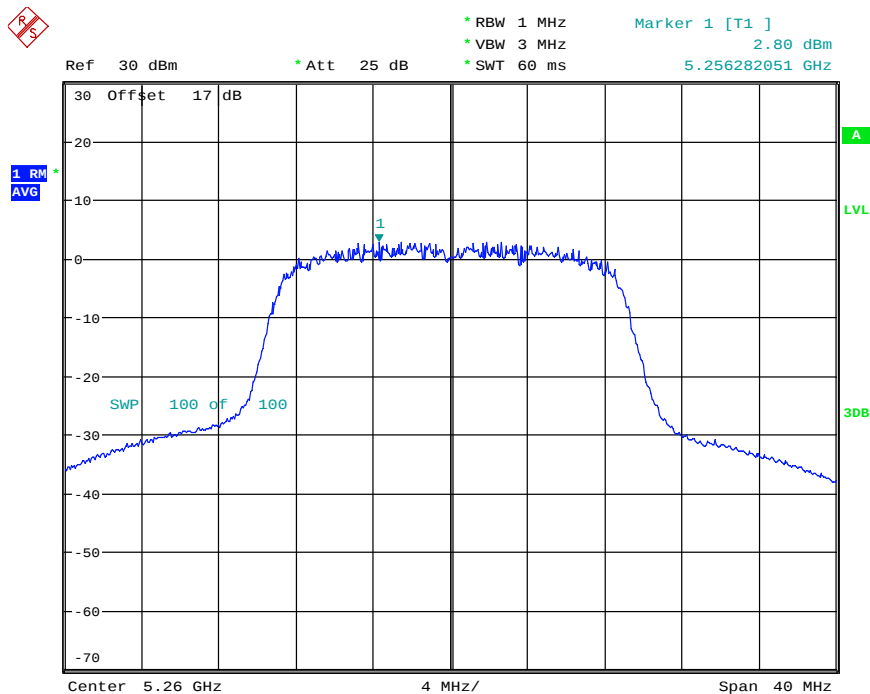
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211aCH64

Date: 22.APR.2019 11:09:54



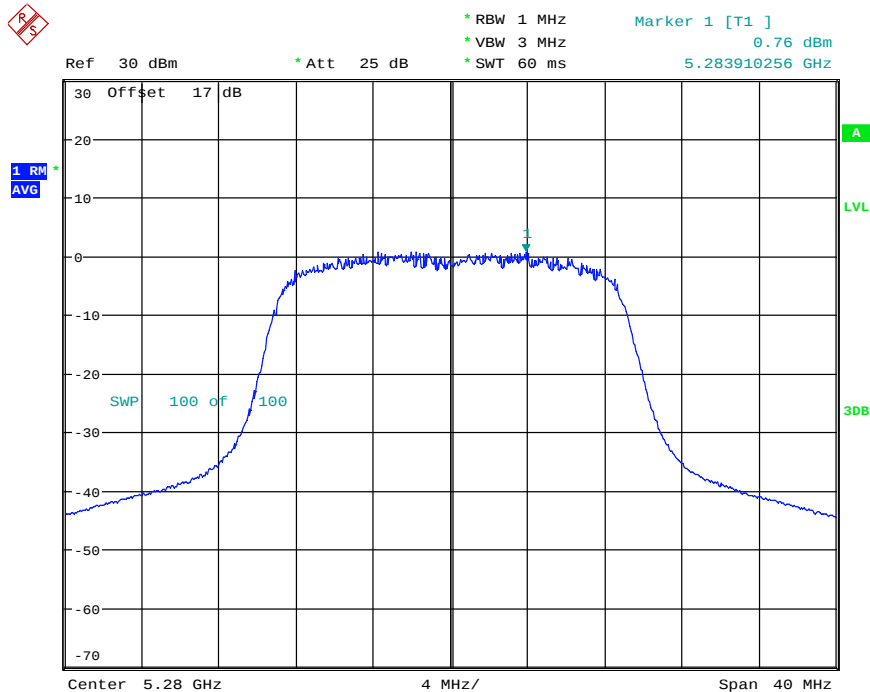
POWER DENSITY AV ANT2 11ac20CH52

Date: 22.APR.2019 13:11:21



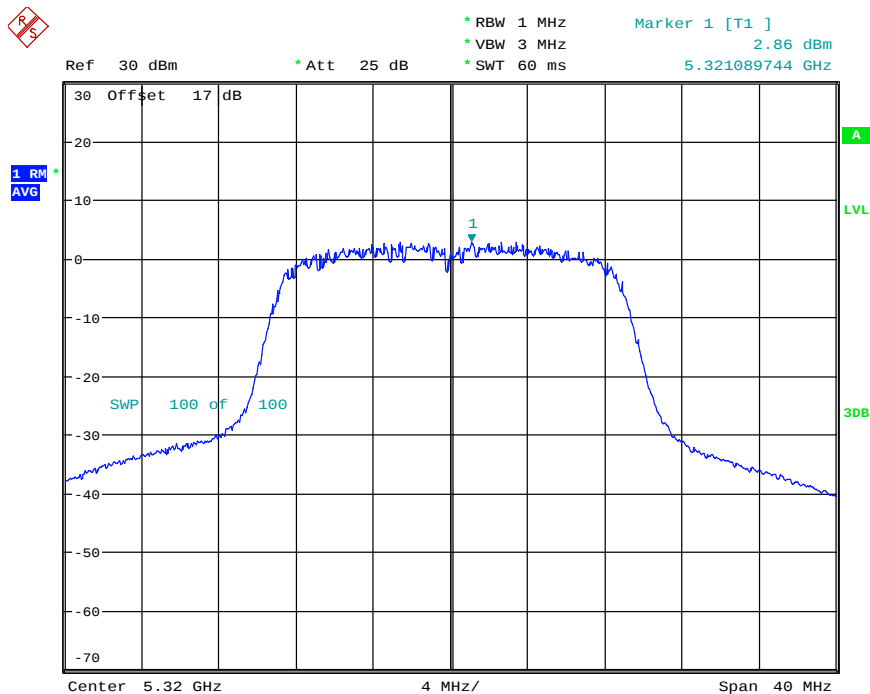
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH56

Date: 22.APR.2019 13:15:15



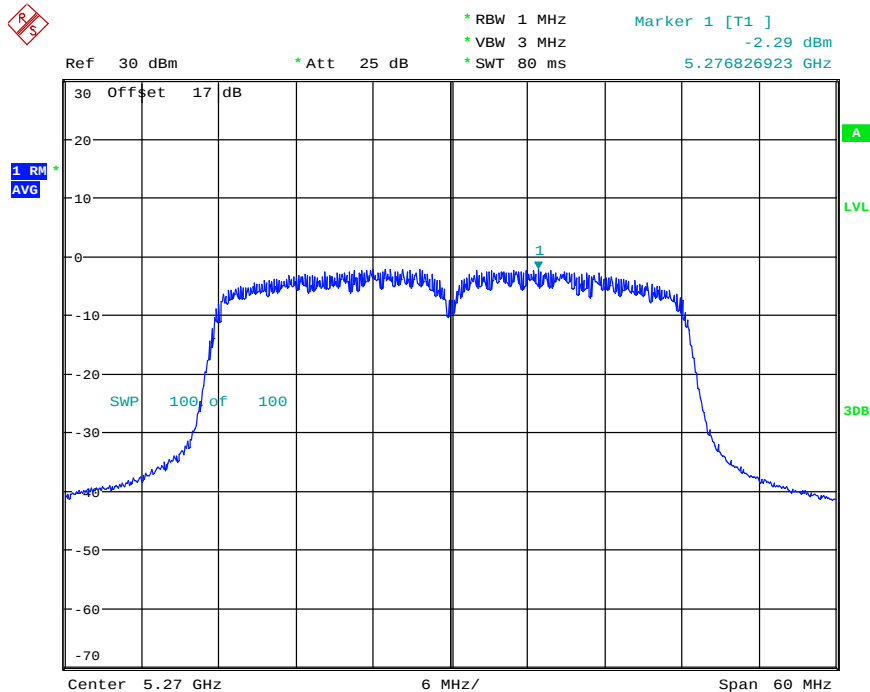
POWER DENSITY AV ANT2 11ac20CH64

Date: 22.APR.2019 13:20:33



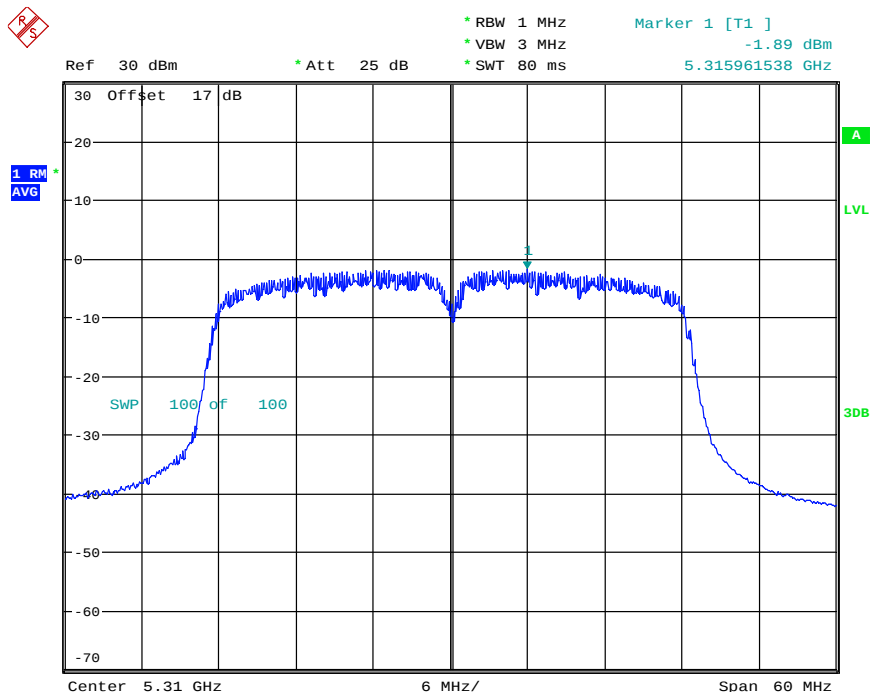
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac40CH54

Date: 22.APR.2019 13:36:12



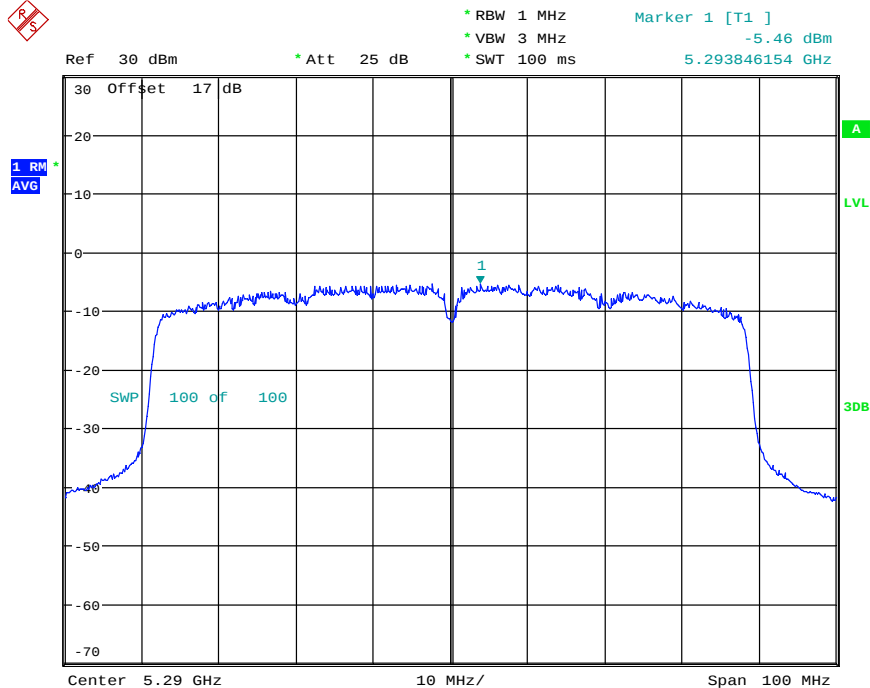
POWER DENSITY AV ANT211ac40CH62

Date: 22.APR.2019 13:39:34



Registration number: W6M21903-18857-C-54

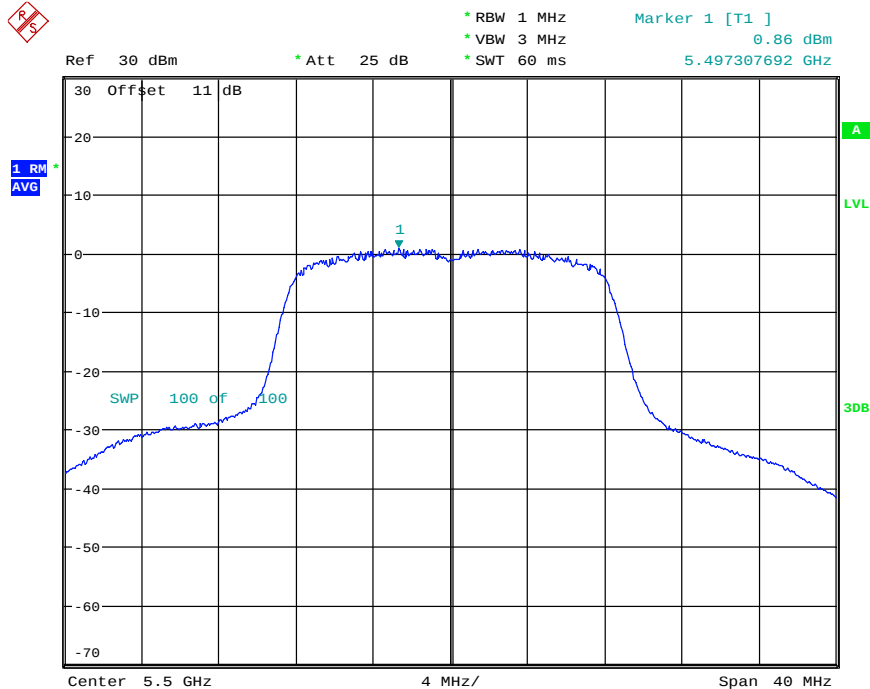
FCC ID: YY3-182010



POWER DENSITY AV ANT211ac80CH58

Date: 22.APR.2019 13:48:09

5.47 GHz ~ 5.725 GHz



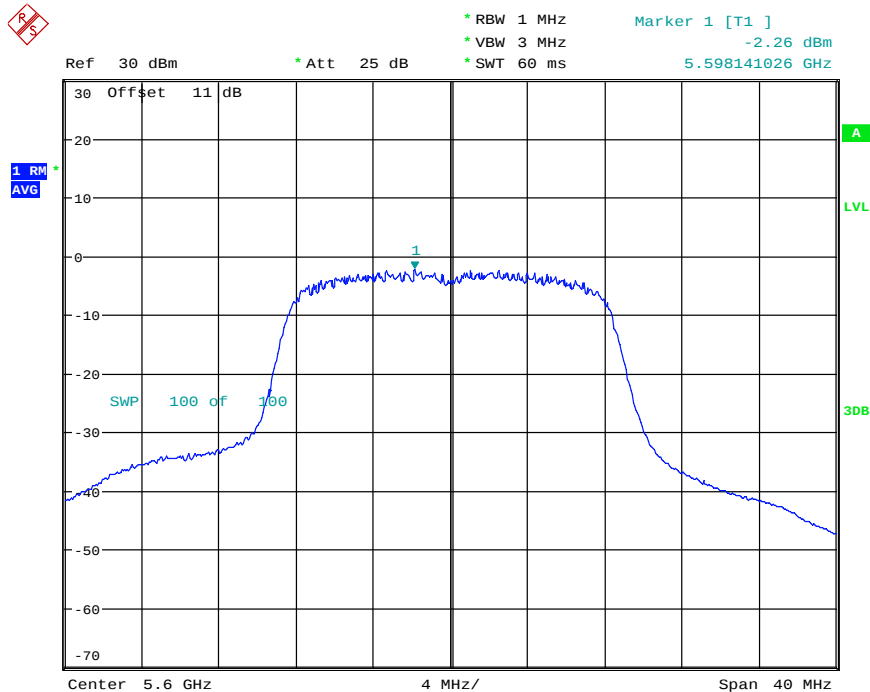
POWER DENSITY AV ANT211aCH100

Date: 22.APR.2019 14:08:59



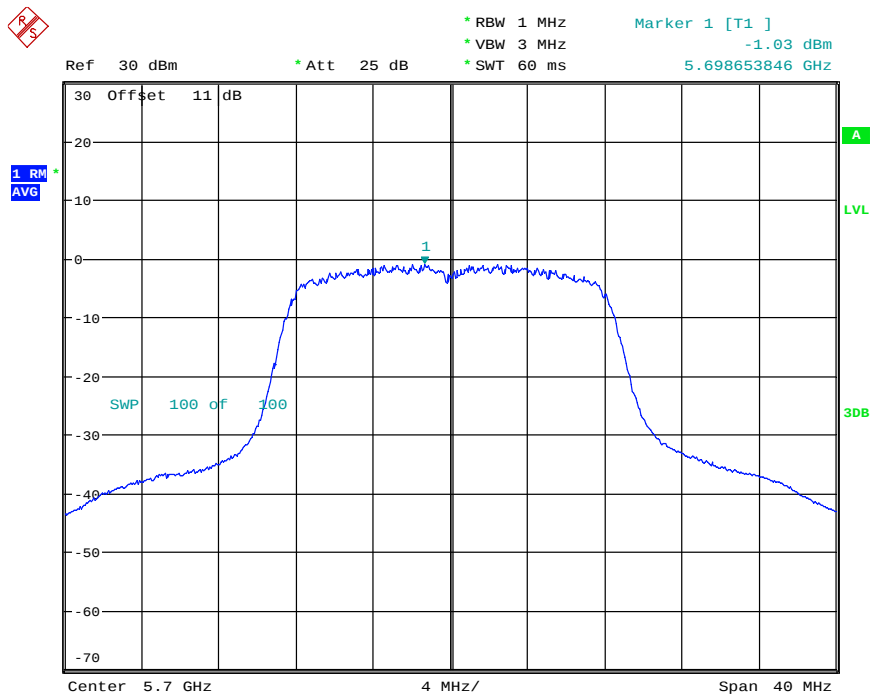
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211aCH120

Date: 22.APR.2019 14:16:27

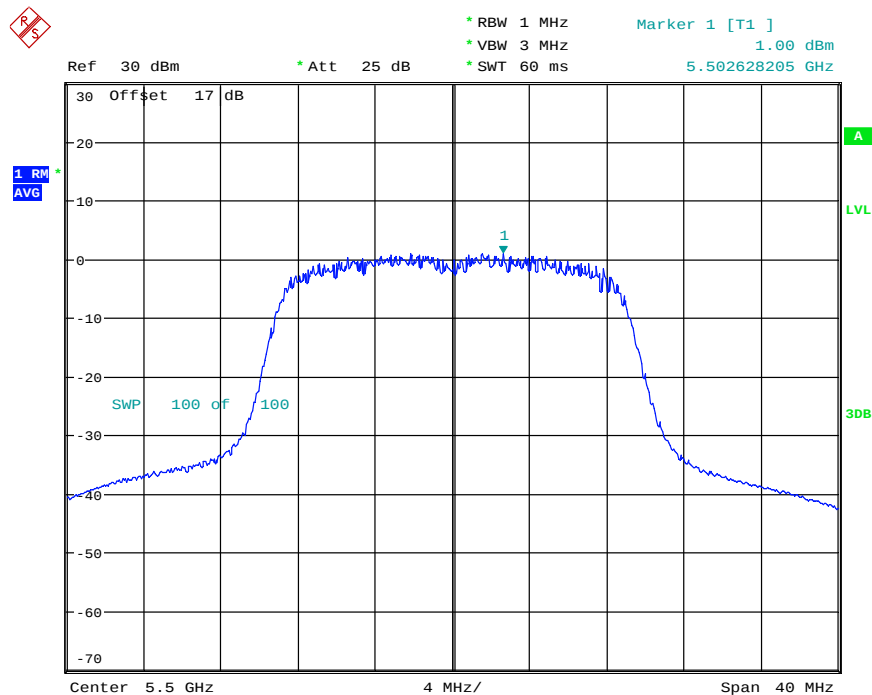


POWER DENSITY AV ANT211aCH140

Date: 22.APR.2019 14:19:10

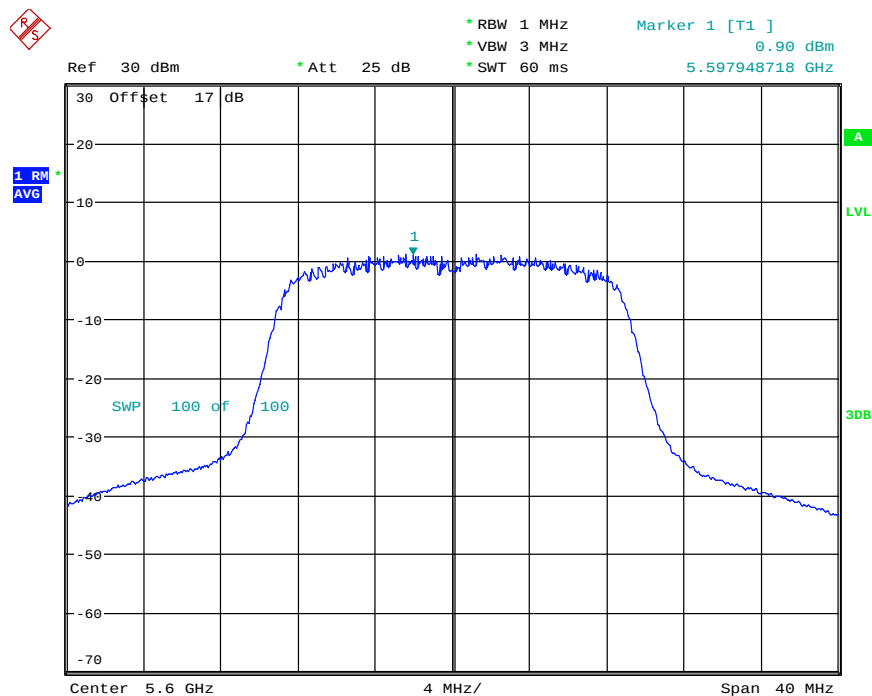
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH100

Date: 23.APR.2019 09:26:49



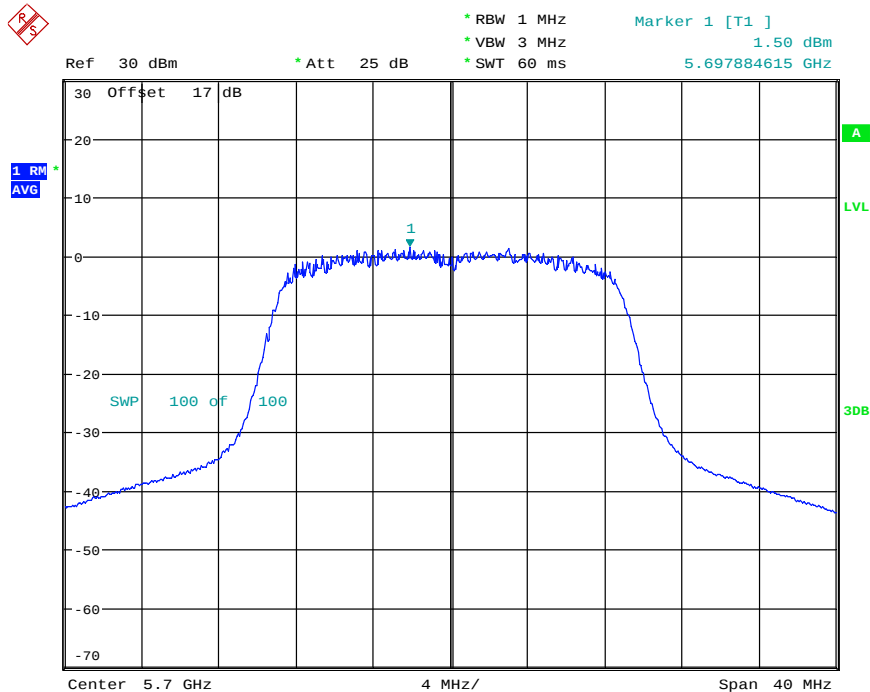
POWER DENSITY AV ANT2 11ac20CH120

Date: 23.APR.2019 09:31:48



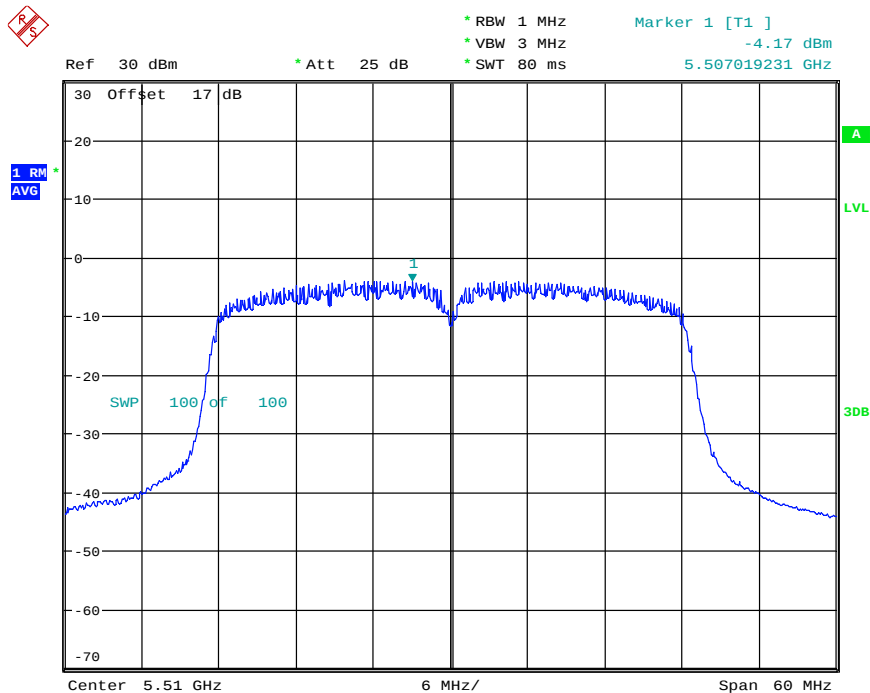
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH140

Date: 23.APR.2019 09:38:50



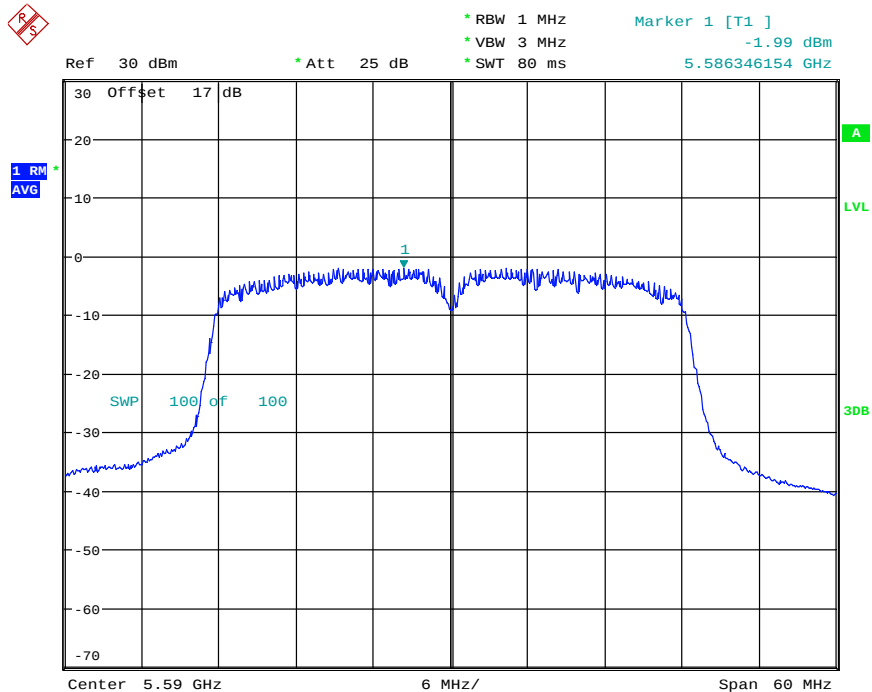
POWER DENSITY AV ANT211ac40CH102

Date: 23.APR.2019 09:42:42



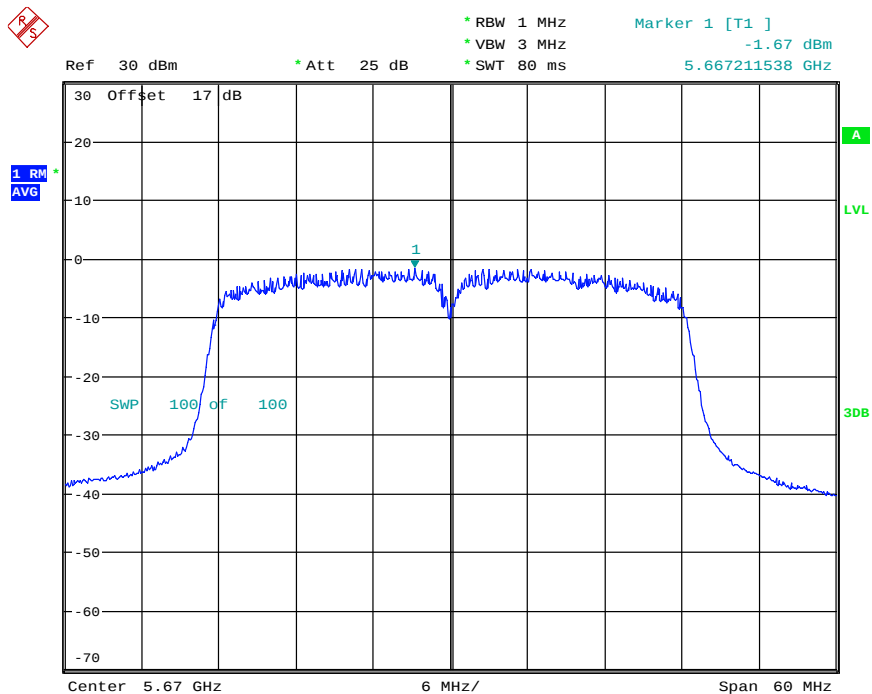
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac40CH118

Date: 23.APR.2019 09:46:04



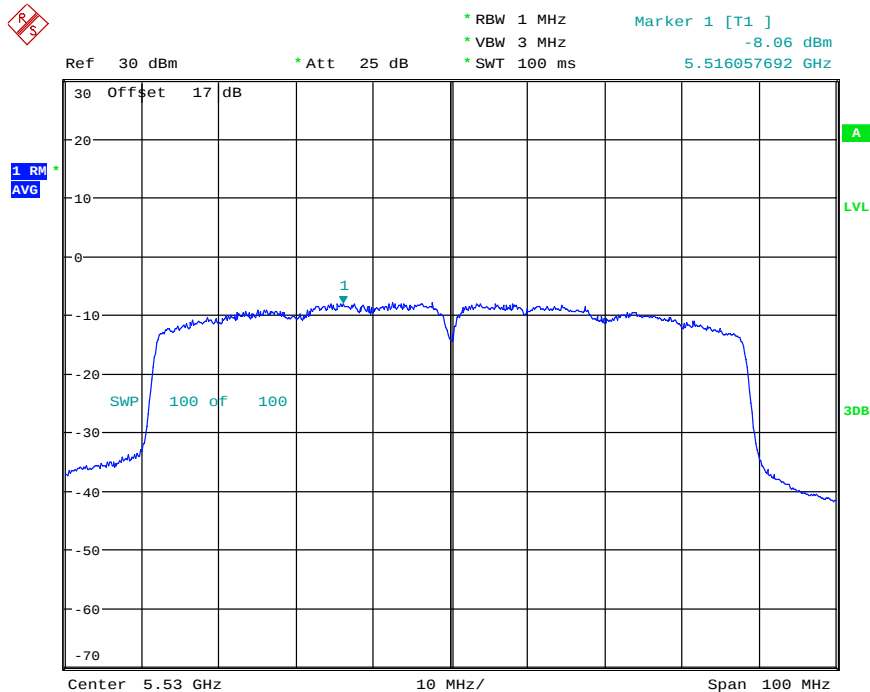
POWER DENSITY AV ANT211ac40CH134

Date: 23.APR.2019 09:48:12



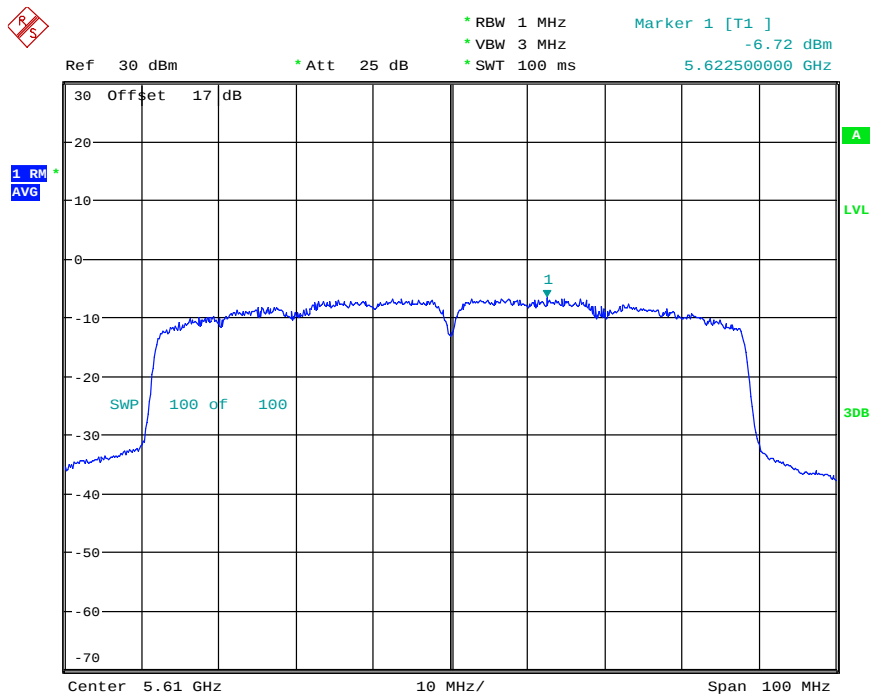
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac80CH106

Date: 22.APR.2019 15:17:41



POWER DENSITY AV ANT211ac80CH122

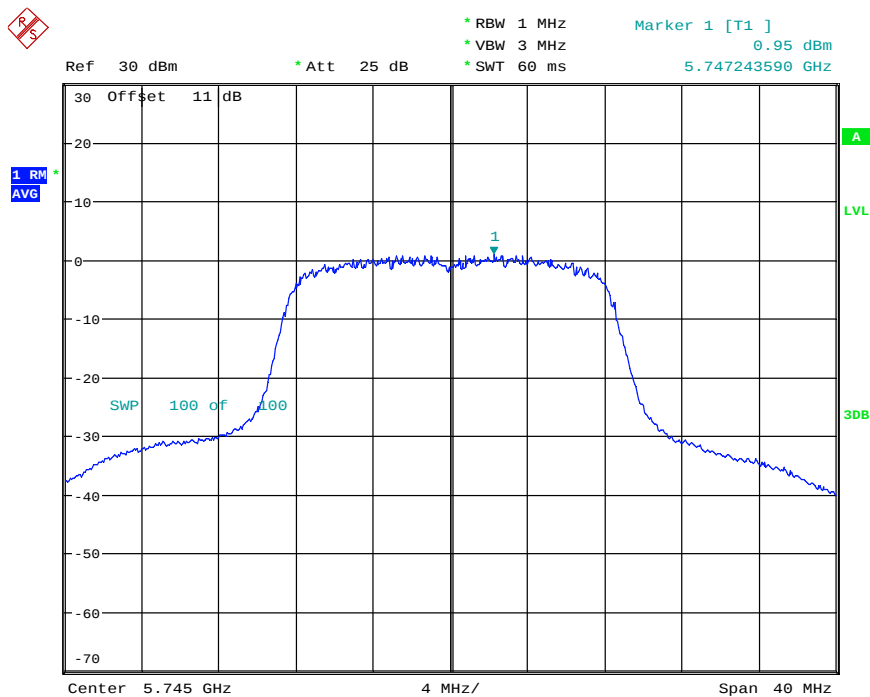
Date: 22.APR.2019 15:23:47



Registration number: W6M21903-18857-C-54

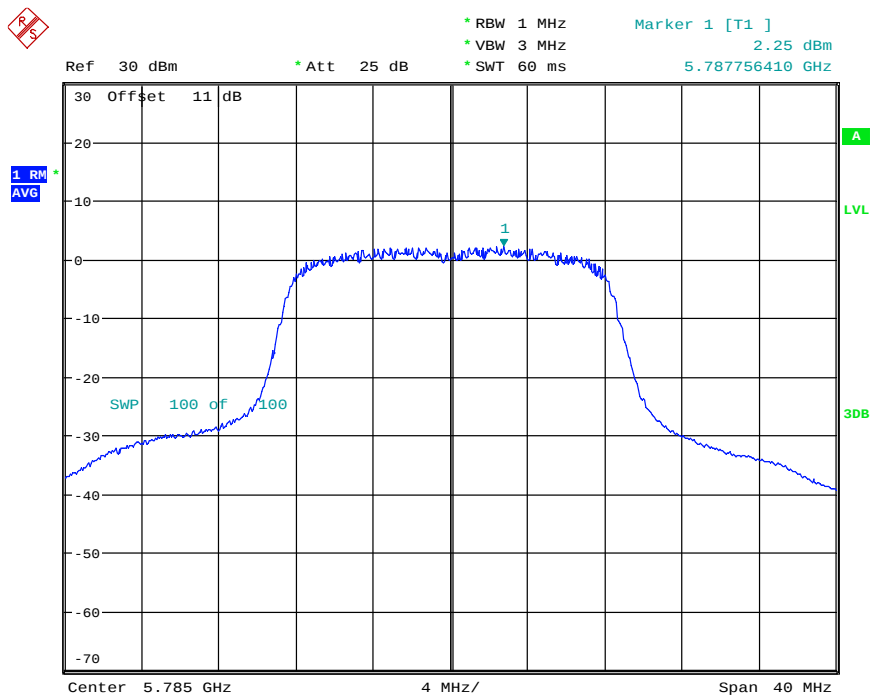
FCC ID: YY3-182010

5.725 GHz ~ 5.85 GHz



POWER DENSITY AV ANT211aCH149

Date: 22.APR.2019 15:30:01



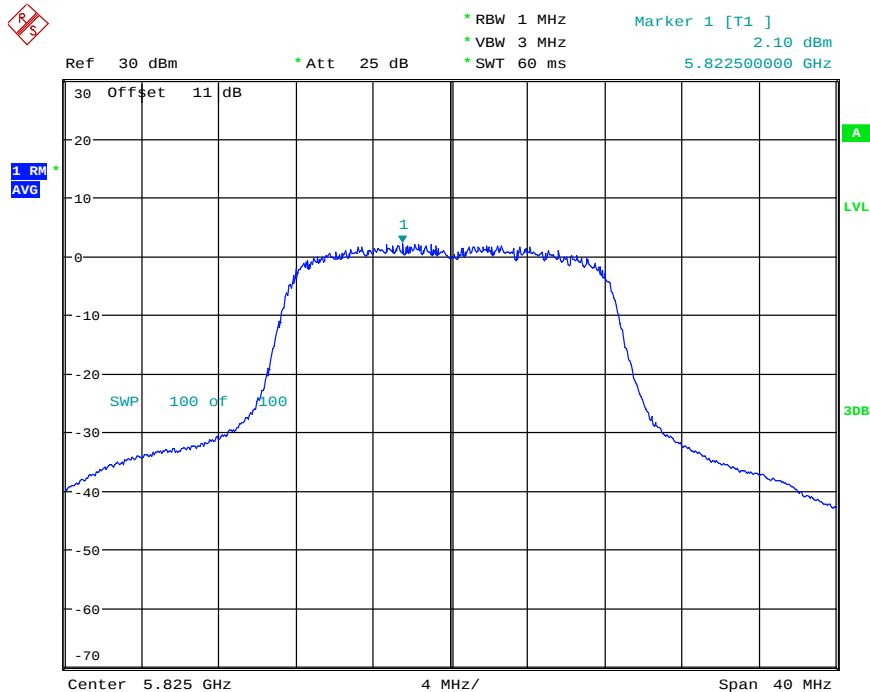
POWER DENSITY AV ANT211aCH157

Date: 22.APR.2019 15:31:45



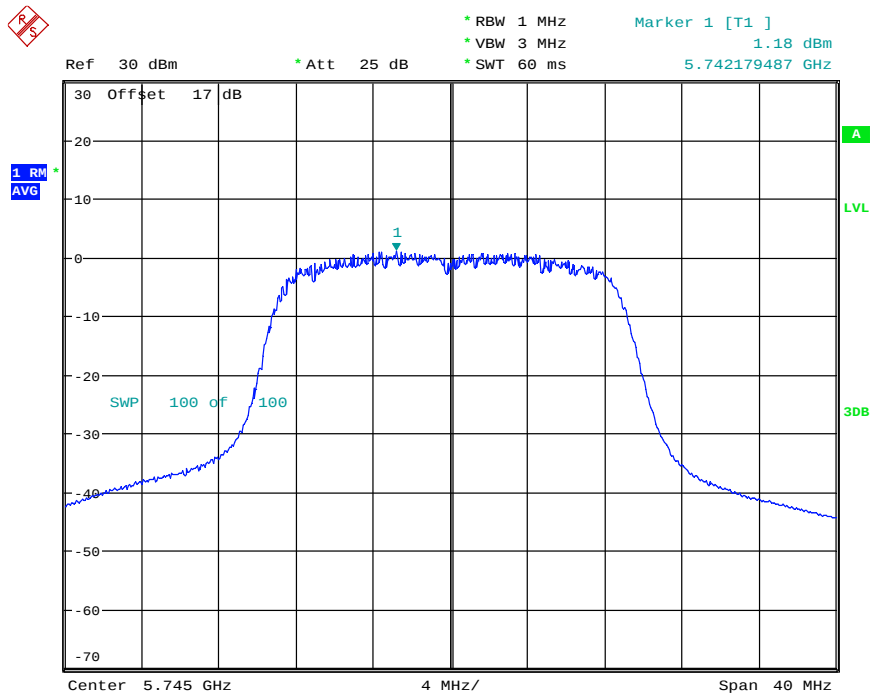
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



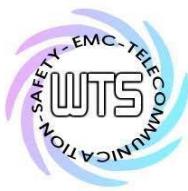
POWER DENSITY AV ANT211aCH165

Date: 22.APR.2019 15:37:29



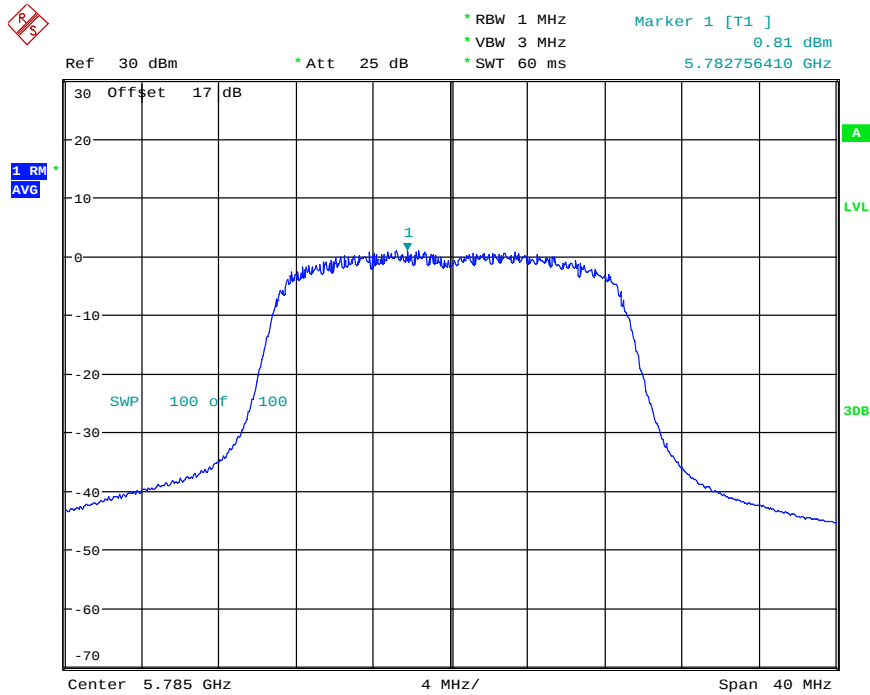
POWER DENSITY AV ANT2 11ac20CH149

Date: 23.APR.2019 08:23:01



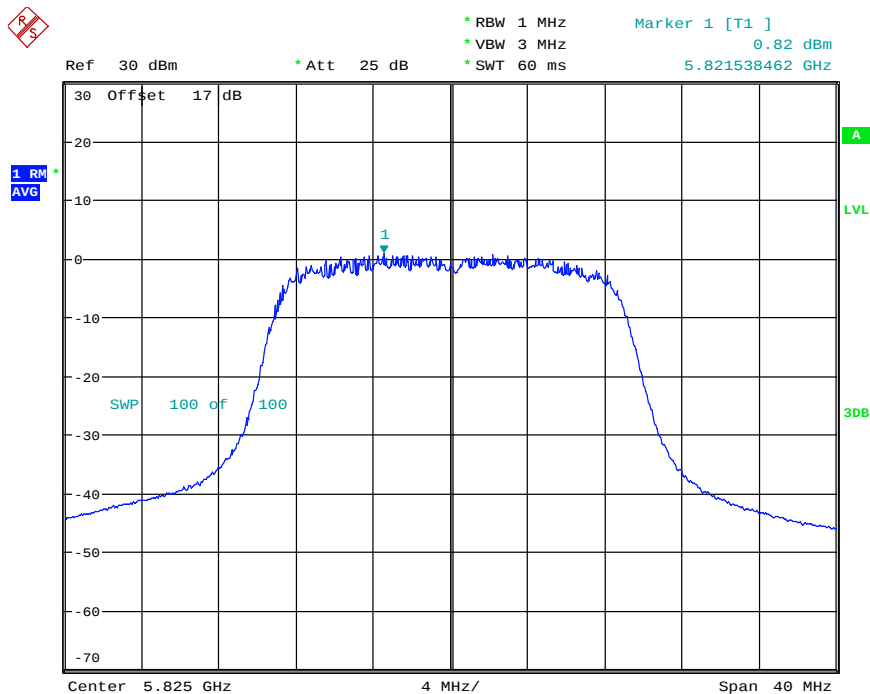
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT2 11ac20CH157

Date: 23.APR.2019 08:26:29



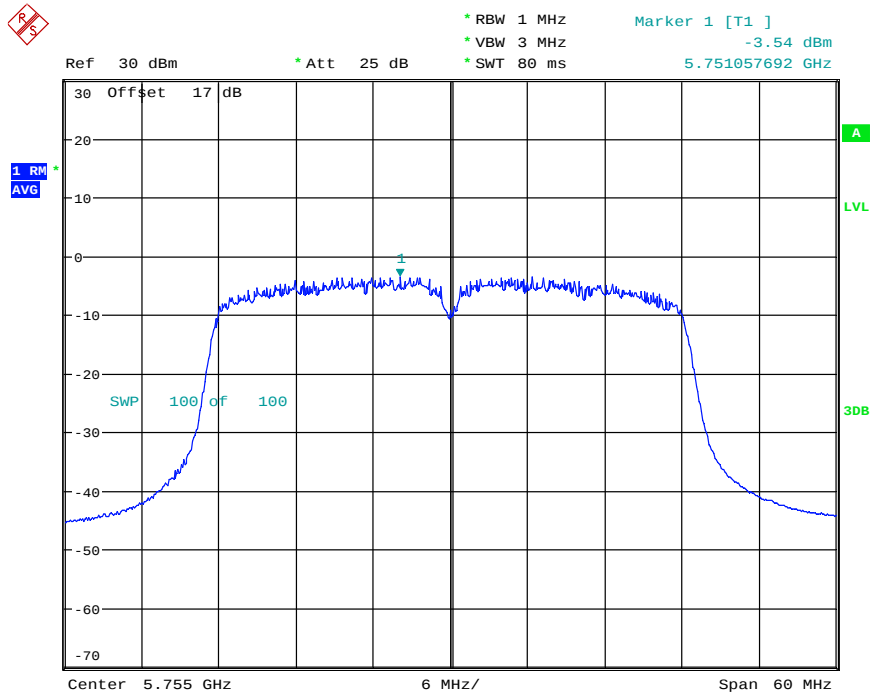
POWER DENSITY AV ANT2 11ac20CH165

Date: 23.APR.2019 08:30:42



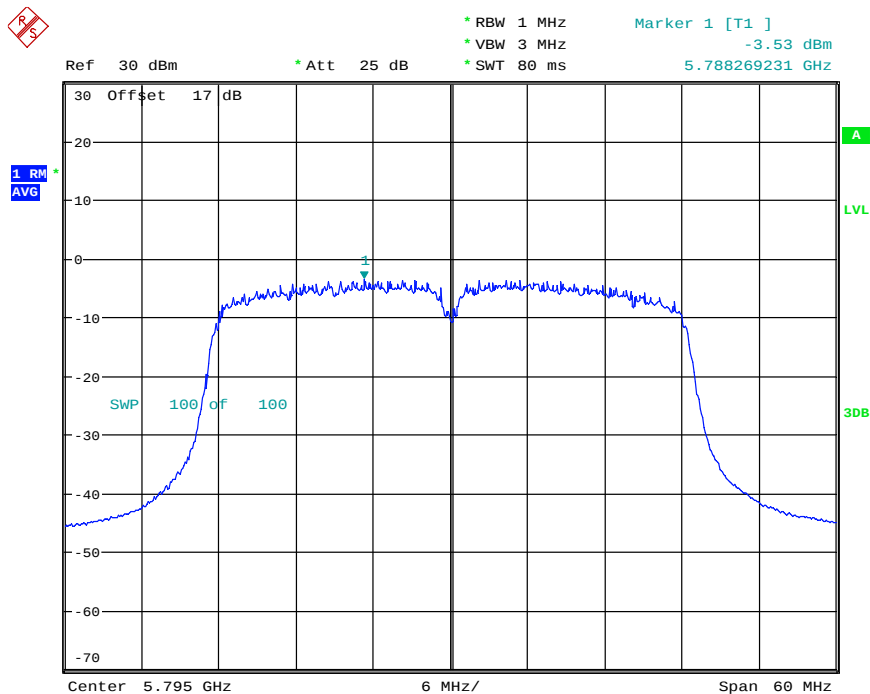
Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac40CH151

Date: 23.APR.2019 08:41:12

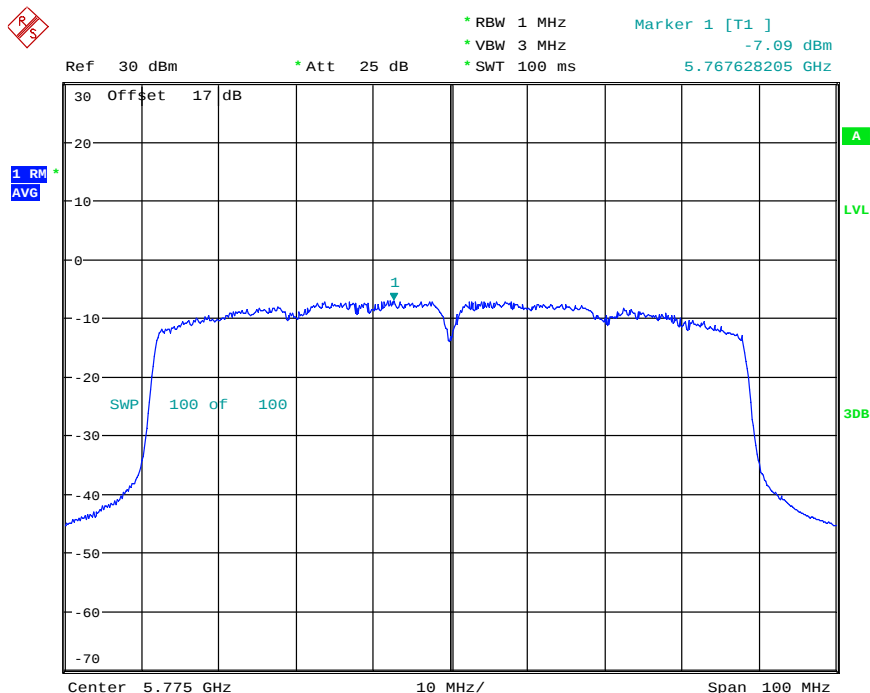


POWER DENSITY AV ANT211ac40CH159

Date: 23.APR.2019 08:45:05

Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010



POWER DENSITY AV ANT211ac80CH155

Date: 23.APR.2019 09:03:11

5.15GHz~5.25GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.589	1.222	1.832	2.01	0.87	2.63
802.11n 40MHz	0.375	--	0.632	-4.26	--	-1.99
802.11ac	0.217	--	--	-6.63	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.592	1.138	1.782	2.02	0.56	2.51
802.11n 40MHz	0.385	--	0.543	-4.15	--	-2.65
802.11ac	0.221	--	--	-6.56	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	3.181	2.36	3.614	5.026	3.729	5.58
802.11n 40MHz	0.76	--	1.175	-1.192	--	0.7
802.11ac	0.438	--	--	-3.585	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

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5.25GHz~5.35GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.08	1.202	1.968	3.18	0.80	2.94
802.11n 40MHz	0.596	--	0.631	-2.25	--	-2.00
802.11ac	0.296	--	--	-5.28	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.905	1.191	1.932	2.8	0.76	2.86
802.11n 40MHz	0.59	--	0.647	-2.29	--	-1.89
802.11ac	0.284	--	--	-5.46	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	3.985	2.393	3.9	6.004	3.789	5.911
802.11n 40MHz	1.186	--	1.278	0.741	--	1.065
802.11ac	0.58	--	--	-2.366	--	--

5.47GHz~5.725GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.288	1.318	1.445	1.10	1.20	1.60
802.11n 40MHz	0.395	0.63	0.673	-4.03	-2.01	-1.72
802.11ac	0.171	--	0.215	-7.67	--	-6.68
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.259	1.23	1.413	1.00	0.90	1.50
802.11n 40MHz	0.383	0.632	0.681	-4.17	-1.99	-1.67
802.11ac	0.156	--	0.213	-8.06	--	-6.72
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.547	2.548	2.858	4.06	4.062	4.561
802.11n 40MHz	0.778	1.262	1.354	-1.09	1.011	1.316
802.11ac	0.327	--	0.428	-4.855	--	-3.686



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5.725GHz~5.85GHz

Antenna A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.294	1.285	1.146	1.12	1.09	0.59
802.11n 40MHz	0.433	--	0.438	-3.64	--	-3.59
802.11ac	0.194	--	--	-7.12	--	--
Antenna B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.312	1.205	1.208	1.18	0.81	0.82
802.11n 40MHz	0.443	--	0.444	-3.54	--	-3.53
802.11ac	0.195	--	--	-7.09	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.606	2.49	2.354	4.16	3.962	3.718
802.11n 40MHz	0.876	--	0.882	-0.575	--	-0.545
802.11ac	0.389	--	--	-4.101	--	--

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

3.5 Undesirable emission limits, FCC 15.407 (b)

1. For transmitters operating in the 5.15–5.25 GHz band: all emissions out-side of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz.
2. For transmitters operating in the 5.25–5.35 GHz band: all emissions out-side of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. De-vices operating in the 5.25–5.35 GHz band that generate emissions in the 5.15–5.25 GHz band must meet all appli-cable technical requirements for operation in the 5.15–5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15–5.25 GHz band.
3. For transmitters operating in the 5.47–5.725 GHz band: all emissions out-side of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
4. For transmitters operating in the 5.725–5.850 GHz band: All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
5. The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
6. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.
7. According to According to KDB 789033 D02 General UNII Test Procedures v01, as specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.
8. If radiated measurements are performed, field strength is then converted to EIRP as follows:
 - (i) $EIRP = ((E \cdot d)^2) / 30$, where: E is the field strength in V/m; d is the measurement distance in meters. EIRP is the equivalent isotropically radiated power in watts.
 - (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$.
 - (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$.

Applicable to	Limit	
☒	FIELD STRENGTH at 3m (dBμV/m)	
	PK	AV
	74	54
☐	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH at 3m (dBμV/m)
	PK	PK
	-27	68.3

Model:

Algiz RT10

Date:

--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

Model: Algiz RT10

Temperature: -- °C Engineer: --

Polarization: Horizontal

Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 147,
ETSTW-RE 088, ETSTW-RE 018

Explanation: After evaluated, the test result in this report adopt the worst case to measure,
please see attached diagrams in appendix.



Registration number: W6M21903-18857-C-54

FCC ID: YY3-182010

3.6 Automatic Discontinuation of transmission, FCC 15.407 (c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

This function will be declared by manufacturer.

3.7 Reserved, FCC 15.407 (d)

3.8 Indoor Operation Restriction, FCC 15.407 (e)

Within the 5.15–5.25 GHz band, U- NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations. This equipment has to be declared by manufacturer of the final product as content of the user manual.

3.9 Equivalent isotropic radiated power, FCC 15.407 (f)

FCC Rule: 15.407(b)(3)

Band 1

Test exclusion = max. conducted output power + adjusted for tune-up tolerance

Test exclusion = -- dBm

Test equipment used: ETSTW-RE 055

3.10 RF Exposure Compliance Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.25 m normally can be maintained between the user and the device.

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4 \pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	22.5424	Peak value
D	dB	--	--
AG	dB _i	2	--
G	--	1.58	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0071	Calculated value



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Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0

Explanation: Please refer to SAR report.



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3.11 Transmit Power Control (TPC)

Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Explanation: Max put power of the EUT is less than 500 mW (27dBm) so this test item is not required.