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Report Template Version: V04
Report Template Revision Date: 2018-07-06

Test Report

Report No.:	CQASZ20210400543E-02
Applicant:	UNIONMAN TECHNOLOGY CO., LTD
Address of Applicant:	No.5 Huitai Road, Huinan High-Tech Industrial Park, Huizhou City, Guangdong, China.
Equipment Under Test (EUT):	
Product:	WiFi6 CPE
Model No.:	UNR032H，UNR033H
Teat Model No.:	UNR033H
Brand Name:	N/A
FCC ID:	2ATGV-UNR032H
Standards:	47 CFR Part 15, Subpart E
	KDB 789033 D02 General UNII Test Procedures New Rules v02
	KDB 558074 D01 Meas Guidance v05
Date of Receipt:	2021-04-25
Date of Test:	2021-04-25 to 2021-5-24
Date of Issue:	2021-5-24
Test Result:	**PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Jun Li

(Sheek Luo)

Approved By: Sheek. Luo

(Sheek Luo)

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210400543E-02	Rev.01	Initial report	2021-5-24

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	ANSI C63.10-2013	PASS
Conducted Output Power and transmit power control mechanism	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1)	ANSI C63.10-2013	PASS
Emission Bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)	ANSI C63.10-2013	PASS
Peak Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5)	ANSI C63.10-2013	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5)(6)(7)(8)	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS

Remark:
The tested sample(s) and the sample information are provided by the client.
Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radiated Frequency.
CH: In this whole report CH means channel.
Volt: In this whole report Volt means Voltage.
Temp: In this whole report Temp means Temperature.
Humid: In this whole report Humid means humidity.
Press: In this whole report Press means Pressure.
N/A: In this whole report not application

Model No.: UNR032H, UNR033H

Only the model UNR033H was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

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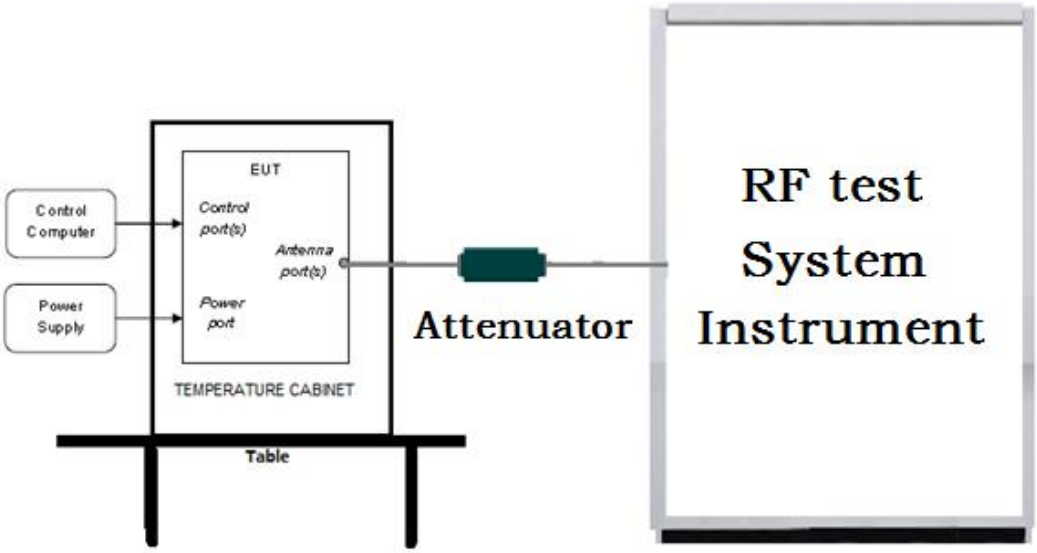
4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

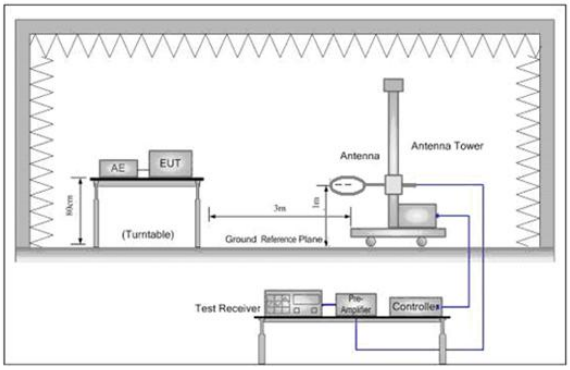


Figure 1. Below 30MHz

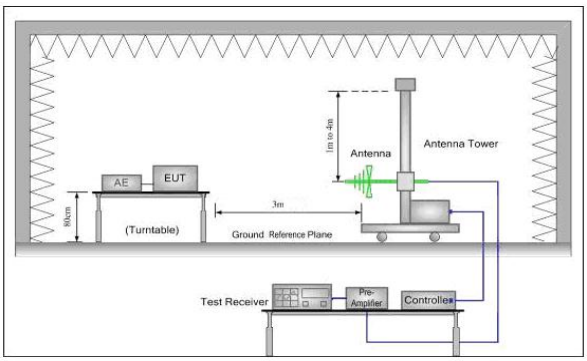


Figure 2. 30MHz to 1GHz

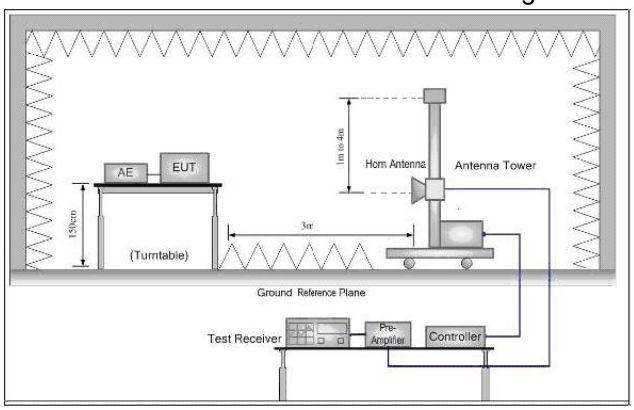
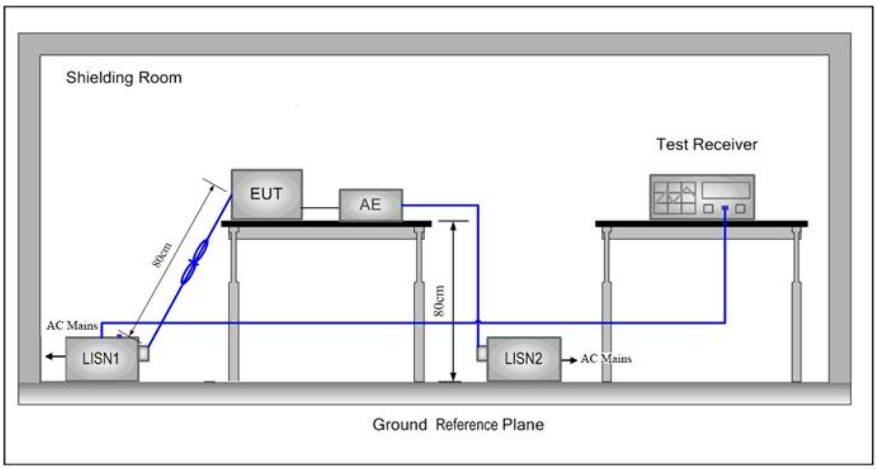


Figure 3. Above 1GHz

4.1.3 For Conducted Emissions test setup

Conducted Emissions setup



4.2 Test Environment

Operating Environment:		
Conducted Emissions:		
Temperature:	25.5 °C	
Humidity:	53 % RH	
Atmospheric Pressure:	1009 mbar	
Radiated Emissions:		
Temperature:	25.5 °C	
Humidity:	53 % RH	
Atmospheric Pressure:	1009mbar	
Radio conducted item test (RF Conducted test room):		
Temperature:	25.5 °C	
Humidity:	53 % RH	
Atmospheric Pressure:	1009 mbar	
Test Condition	Temperature (°C)	Voltage (V)
TN/VN	+15 to +35	12
TL/VL	0	10.8
TH/VL	50	10.8
TL/VH	0	13.2
TH/VH	50	13.2

Remark:

1)The EUT just work in such extreme temperature of 0 °C to 50 °C and the extreme voltage of 12V to 13.2V, so here the EUT is tested in the temperature of 0 °C to 50 °C and the voltage of 12V to 13.2V.

2)VN: Normal Voltage; TN: Normal Temperature;

TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;

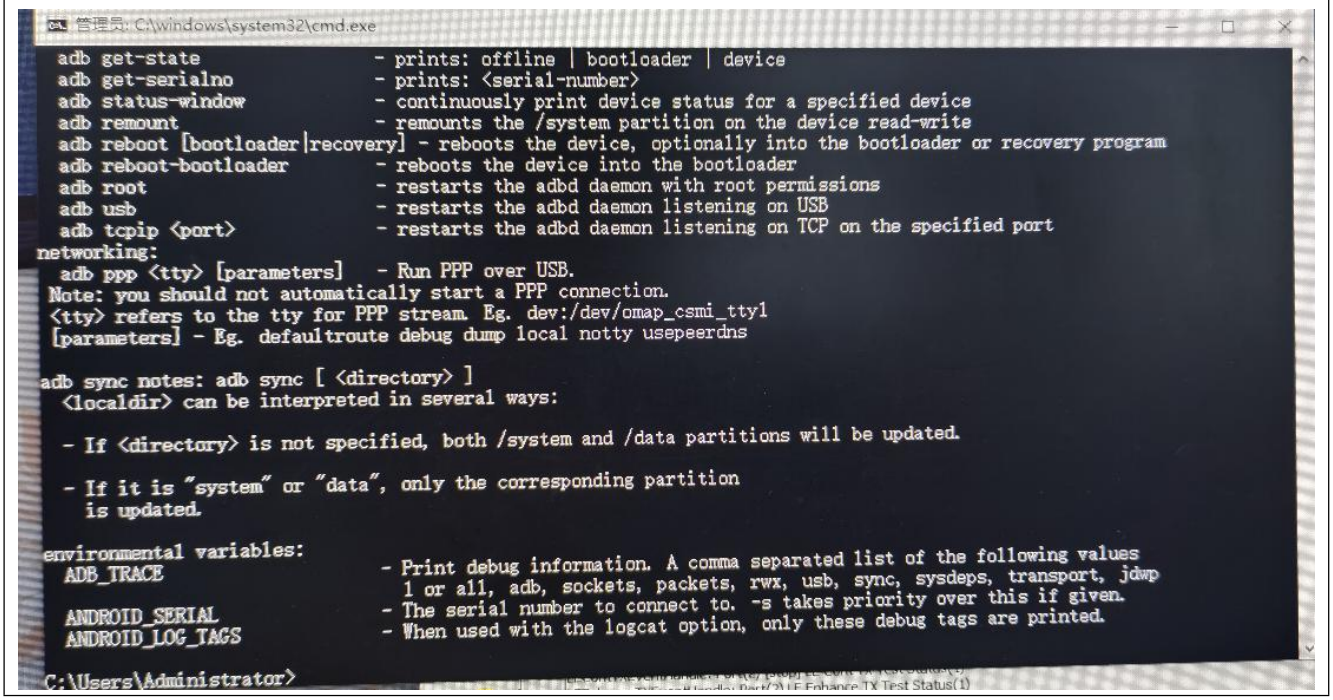
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11ac(80M)	5725MHz ~5850 MHz	N/A	Channel 155	N/A
		N/A	5775MHz	N/A

Run Software:



Test mode:

Pre-scan under all rate at lowest channel for Ant1

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac(80M).

5 General Information

5.1 Client Information

Applicant:	UNIONMAN TECHNOLOGY CO., LTD
Address of Applicant:	No.5 Huitai Road, Huinan High-Tech Industrial Park, Huizhou City, Guangdong, China.
Manufacturer:	UNIONMAN TECHNOLOGY CO., LTD
Address of Manufacturer:	No.5 Huitai Road, Huinan High-Tech Industrial Park, Huizhou City, Guangdong, China.
Factory:	UNIONMAN TECHNOLOGY CO., LTD
Address of Factory:	No.5 Huitai Road, Huinan High-Tech Industrial Park, Huizhou City, Guangdong, China.

5.2 General Description of EUT

Product Name:	WiFi6 CPE
Model No.:	UNR032H, UNR033H
Test Model No.:	UNR033H
Trade Mark:	N/A
Hardware Version:	HWVer-B001
Software Version:	V200R020C10SPC100B05
EUT Power Supply:	Adapter: MODEL: EUTA-24120-2000 INPUT: 100-240V~50/60Hz 0.6A OUTPUT: 12V 2A
EUT Supports Radios application:	2.4GHz: Wi-Fi: 2412-2472MHz 5GHz: Wi-Fi: U-NII-1: 5.15-5.25GHz; U-NII-3: 5.725-5.850GHz

5.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11/ac(40M): 5150MHz ~5250 MHz IEEE802.11ac(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz IEEE802.11ac(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	OFDM
Sample Type:	☐ Mobile ☐ Portable ☒ Fix Location
Test Power Grade:	N/A
Test Software of EUT:	RF Test (manufacturer declare)
Antenna Type:	internal antenna with ipex connector
Antenna gain:	Antenna Gain 1: 2dBi
	Antenna Gain 2: 3dBi
	Antenna Gain 1+2: 6.01 dBi

Operation Frequency each of channel

For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11a/n/ac(20M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	NA	NA

For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	NA	NA
42	5210MHz	NA	NA
For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	NA	NA
155	5775MHz	NA	NA

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	CQA

5.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

5.6 Test Facility

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	3×10^{-8}
2	RF power, conducted	0.86dB
3	Radiated Spurious emission test	5.12dB (Below 1GHz)
		4.6dB (Above 1GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.8°C
6	Humidity test	2.0%
7	DC power voltages	0.5%

6 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU40	CQA-075	2020/6/11	2021/6/10
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2020/10/25	2021/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2020/10/25	2021/10/24
Preamplifier	EMCI	EMC184055SE	CQA-089	2020/9/25	2021/9/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2020/10/21	2021/10/20
Bilog Antenna	R&S	HL562	CQA-011	2020/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2020/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/25	2021/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2020/9/26	2021/9/25
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2020/9/26	2021/9/25
Power meter	R&S	NRVD	CQA-029	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
LISN	R&S	ENV216	CQA-003	2020/10/23	2021/10/22
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25
DC power	KEYSIGHT	E3631A	CQA-028	2020/9/26	2021/9/25

Test software:

	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3

7 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices
3	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
4	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15E Section 15.407 (a)(1)(2)	KDB789033	Emission Bandwidth and Occupied Bandwidth	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)(4)(h)(1)	KDB789033 / KDB 662911	Conducted Output Power and transmit power control mechanism	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 / KDB 662911	Power Spectral Density	PASS	Appendix C)
Part15E Section 15.407 (g)	KDB789033	Frequency stability	PASS	Appendix D)
Part15C Section 15.203	ANSI C63.10	Antenna Requirement	PASS	Appendix E)
Part15E Section 15.407 (c)	Section 15.407	Operation in the absence of information to the transmit	PASS	Appendix F)
Part15E Section 15.407 (b)(6)	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033	Restricted bands around fundamental frequency(Radiated Emission)	PASS	Appendix H)
Part15E Section 15.407 (b)(1)(2)(3)(5)(6)(7)(8)	KDB789033	Radiated Spurious Emissions	PASS	Appendix I)

Appendix A): Emission Bandwidth

Result Table

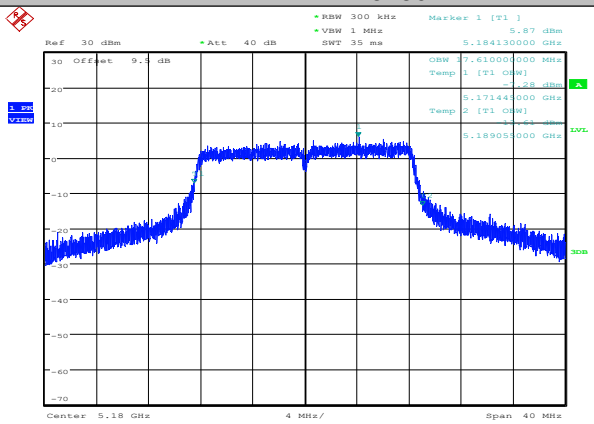
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	34.520	17.610	PASS
11A	Ant2	5180	21.440	16.755	PASS
11A	Ant1	5200	37.480	17.895	PASS
11A	Ant2	5200	20.960	16.785	PASS
11A	Ant1	5240	35.040	17.415	PASS
11A	Ant2	5240	21.360	16.785	PASS
11A	Ant1	5745	16.520	16.570	PASS
11A	Ant2	5745	16.520	16.570	PASS
11A	Ant1	5785	16.480	16.745	PASS
11A	Ant2	5785	16.560	16.765	PASS
11A	Ant1	5825	16.520	16.840	PASS
11A	Ant2	5825	16.560	16.810	PASS
Test Mode	**Antenna**	**Channel**	**EBW[MHz]**	**OBW[MHz]**	**Verdict**
11N20SISO	Ant1	5180	21.680	17.935	PASS
11N20SISO	Ant2	5180	22.240	17.895	PASS
11N20SISO	Ant1	5200	22.200	17.975	PASS
11N20SISO	Ant2	5200	21.960	17.905	PASS
11N20SISO	Ant1	5240	22.080	17.940	PASS
11N20SISO	Ant2	5240	22.120	17.915	PASS
11N20SISO	Ant1	5745	17.720	17.910	PASS
11N20SISO	Ant2	5745	17.800	17.860	PASS
11N20SISO	Ant1	5785	17.720	17.880	PASS
11N20SISO	Ant2	5785	17.760	17.865	PASS
11N20SISO	Ant1	5825	17.760	17.930	PASS
11N20SISO	Ant2	5825	17.760	17.910	PASS

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC20SISO	Ant1	5180	21.720	17.995	PASS
11AC20SISO	Ant2	5180	21.880	17.910	PASS
11AC20SISO	Ant1	5200	21.760	18.055	PASS
11AC20SISO	Ant2	5200	21.920	17.895	PASS
11AC20SISO	Ant1	5240	21.760	18.035	PASS
11AC20SISO	Ant2	5240	21.760	17.900	PASS
11AC20SISO	Ant1	5745	17.760	17.980	PASS
11AC20SISO	Ant2	5745	17.760	17.885	PASS
11AC20SISO	Ant1	5785	17.760	17.930	PASS
11AC20SISO	Ant2	5785	17.720	17.890	PASS
11AC20SISO	Ant1	5825	17.760	18.000	PASS
11AC20SISO	Ant2	5825	17.800	17.910	PASS
11AC40SISO	Ant1	5190	40.880	36.550	PASS
11AC40SISO	Ant2	5190	40.960	36.250	PASS
11AC40SISO	Ant1	5230	41.760	36.780	PASS
11AC40SISO	Ant2	5230	41.680	36.410	PASS
11AC40SISO	Ant1	5755	36.560	36.490	PASS
11AC40SISO	Ant2	5755	36.560	36.370	PASS
11AC40SISO	Ant1	5795	36.560	36.440	PASS
11AC40SISO	Ant2	5795	36.560	36.320	PASS
11AC80SISO	Ant1	5210	83.200	76.700	PASS
11AC80SISO	Ant2	5210	82.880	75.840	PASS
11AC80SISO	Ant1	5775	76.160	76.280	PASS
11AC80SISO	Ant2	5775	76.000	75.860	PASS

Test Graph

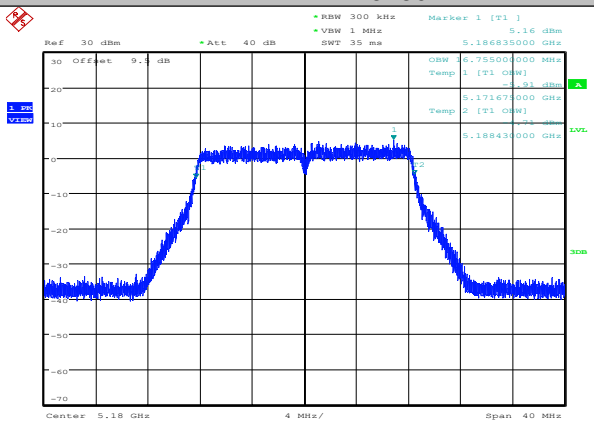
OBW:

11A-Ant1-5180



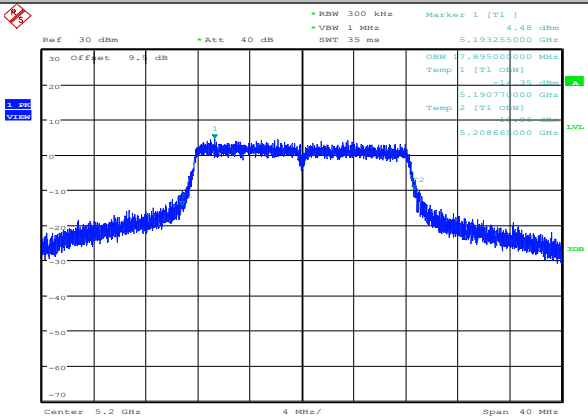
Date: 19.MAY.2021 17:21:51

11A-Ant2-5180



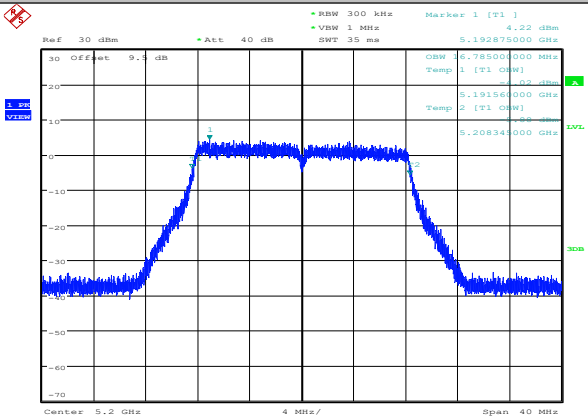
Date: 21.MAY.2021 11:47:39

11A-Ant1-5200



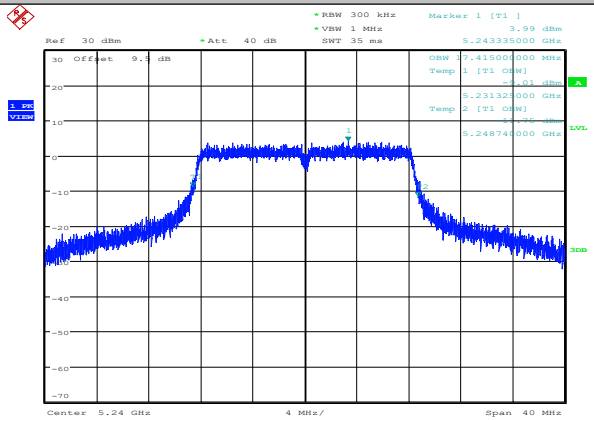
Date: 19.MAY.2021 17:36:45

11A-Ant2-5200



Date: 21.MAY.2021 11:53:10

11A-Ant1-5240



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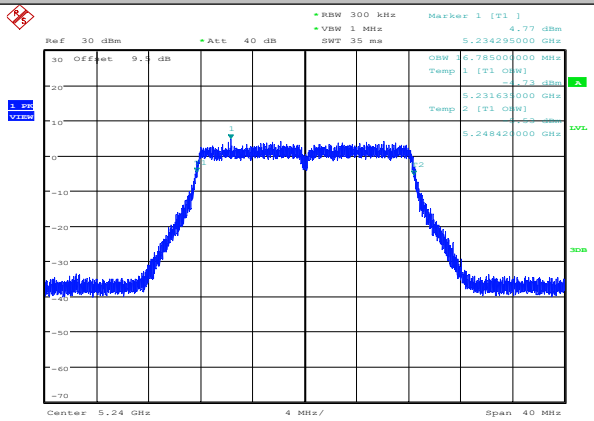

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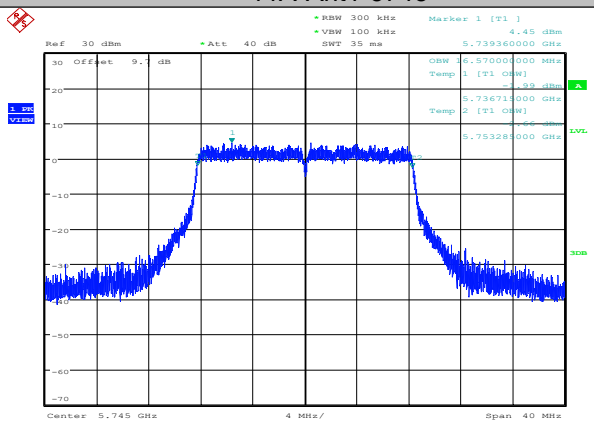
11A-Ant1-5745



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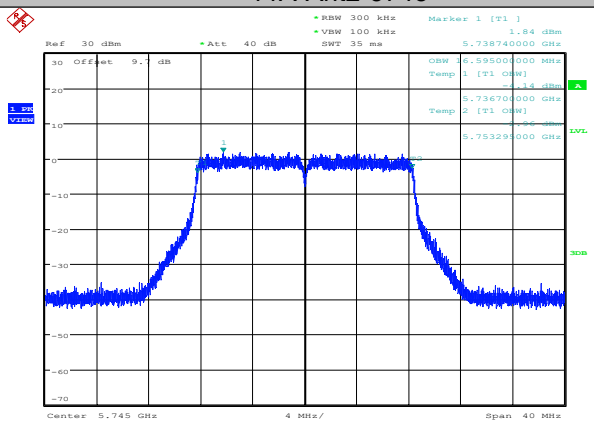

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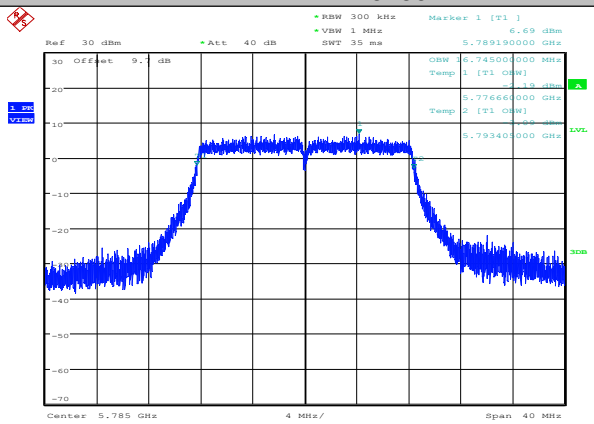
11A-Ant1-5785



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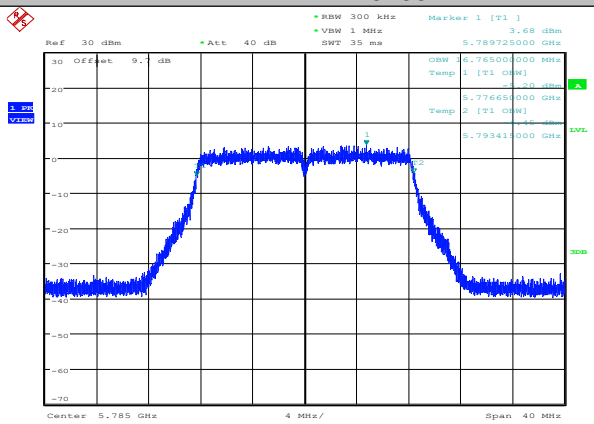

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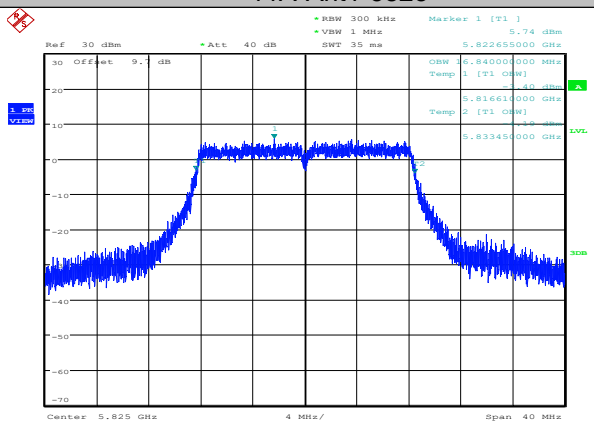

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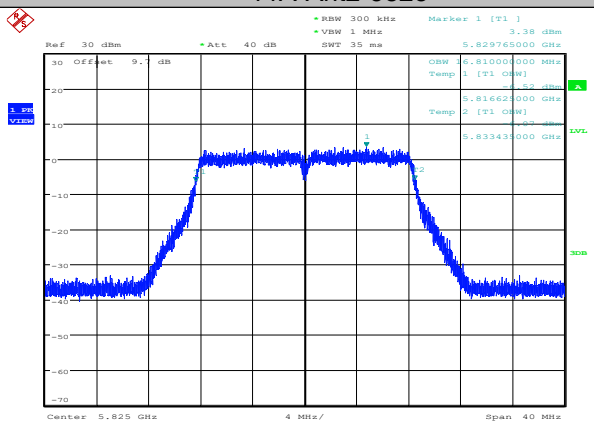

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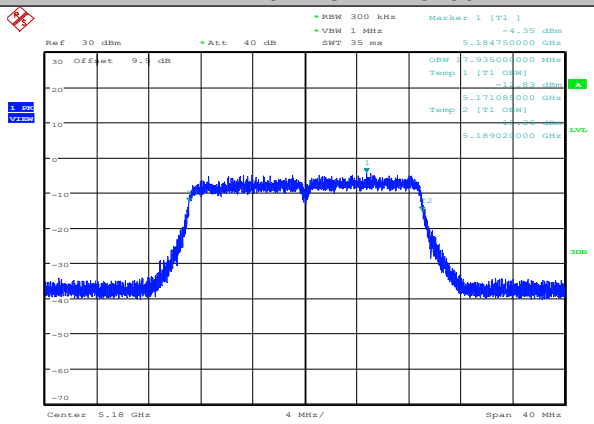

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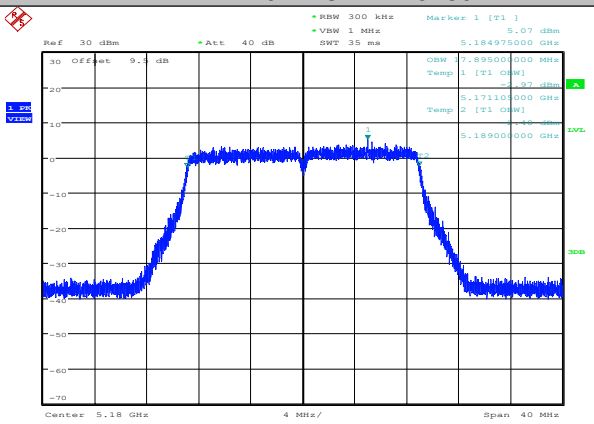

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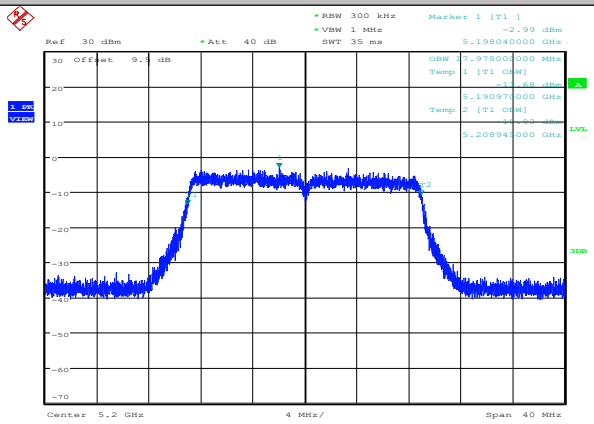

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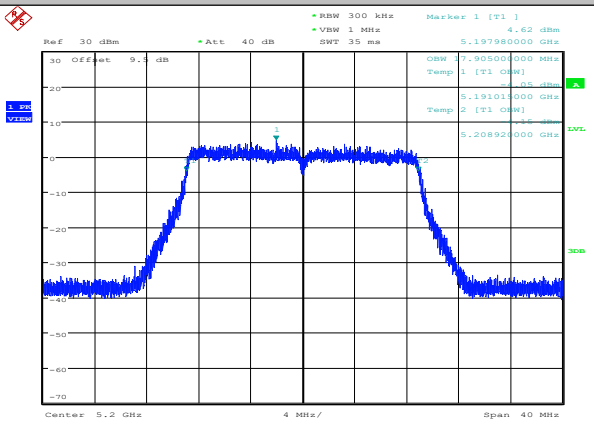

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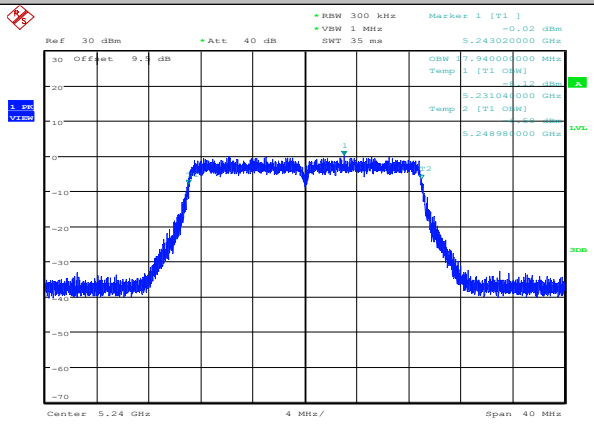

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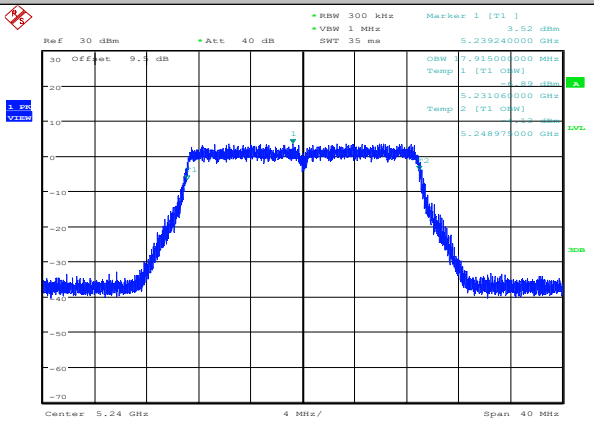

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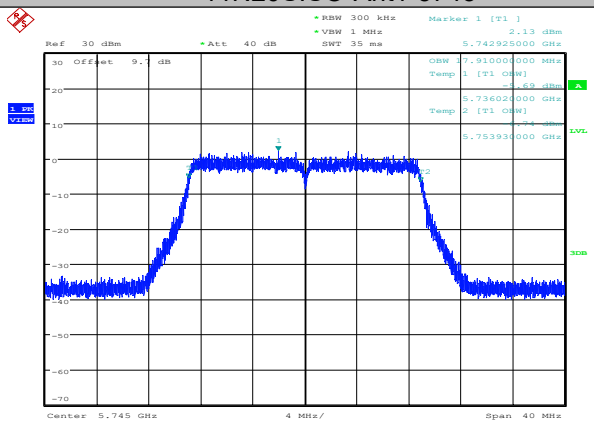

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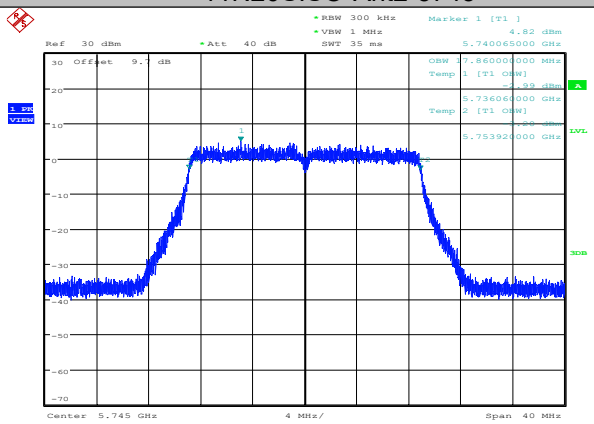

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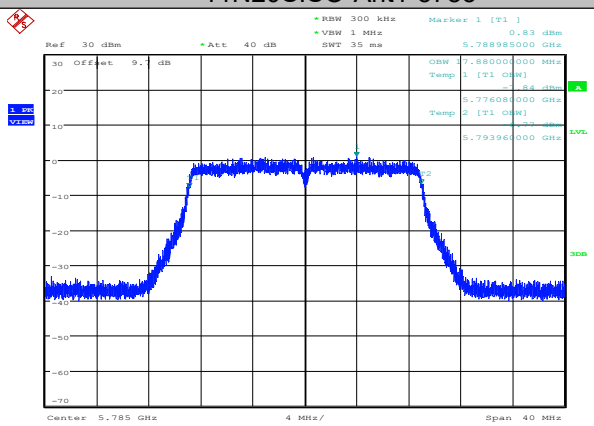

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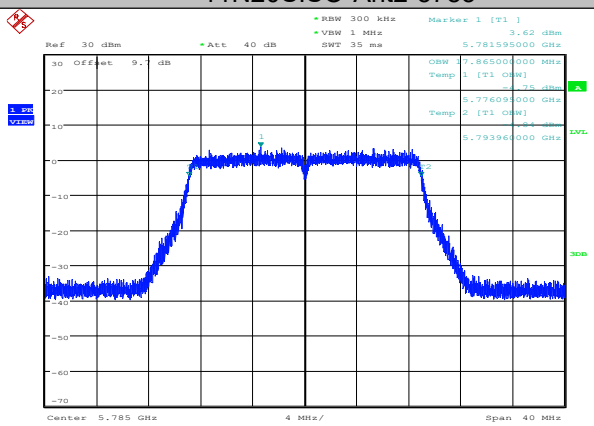

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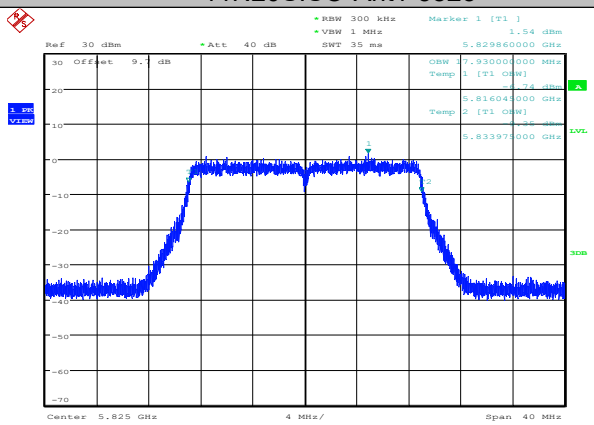

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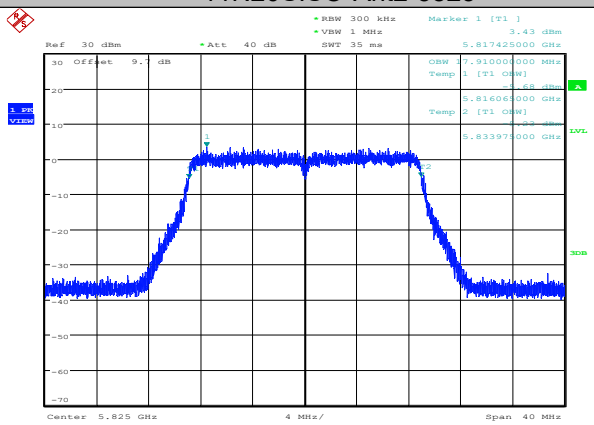

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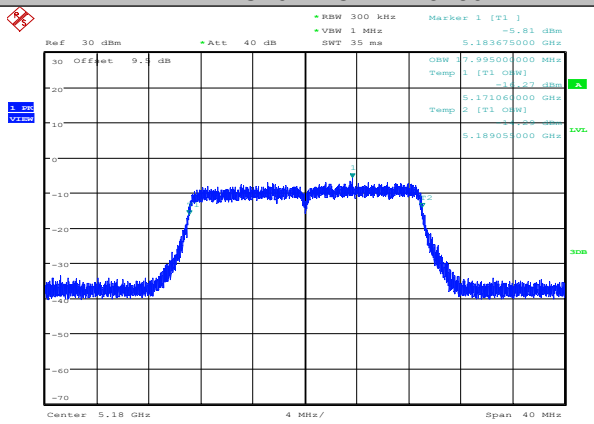

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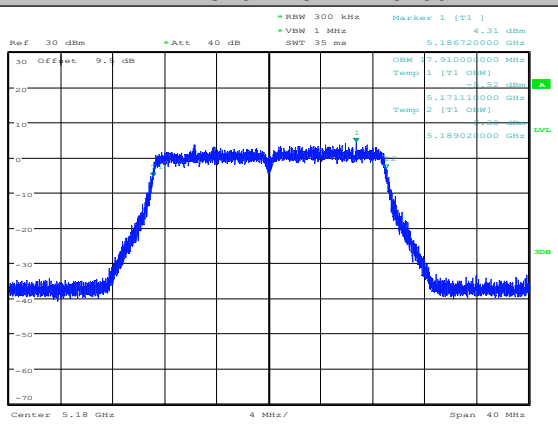

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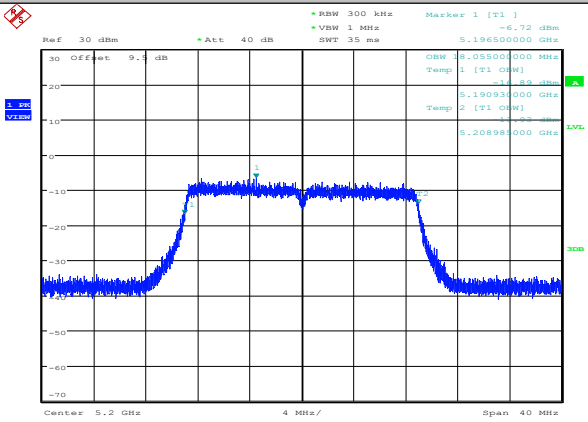

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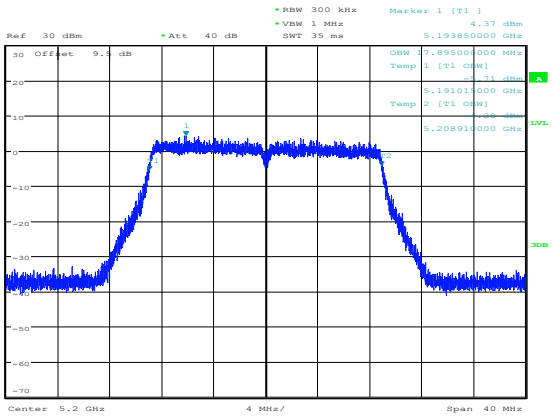

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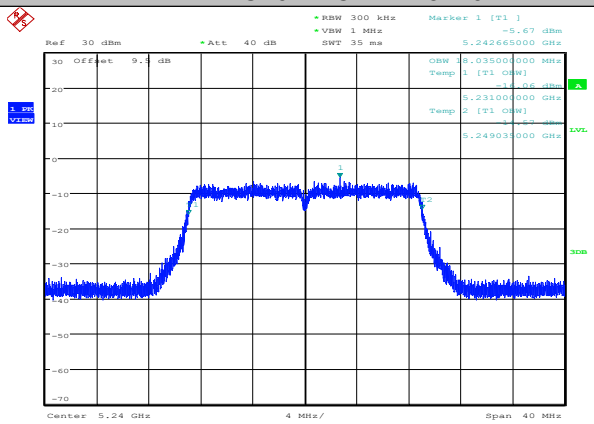

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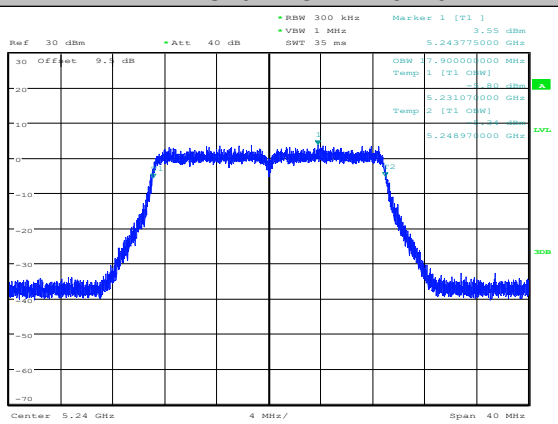

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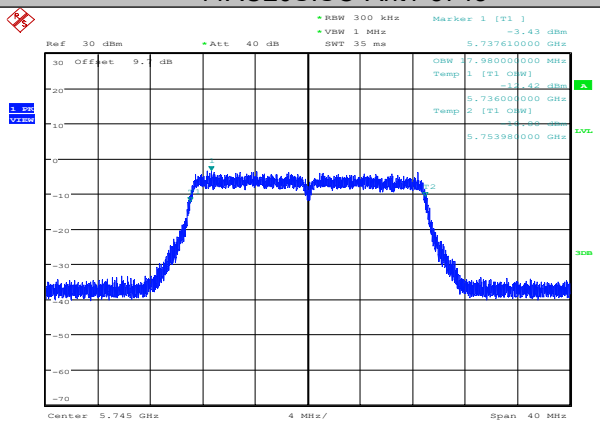

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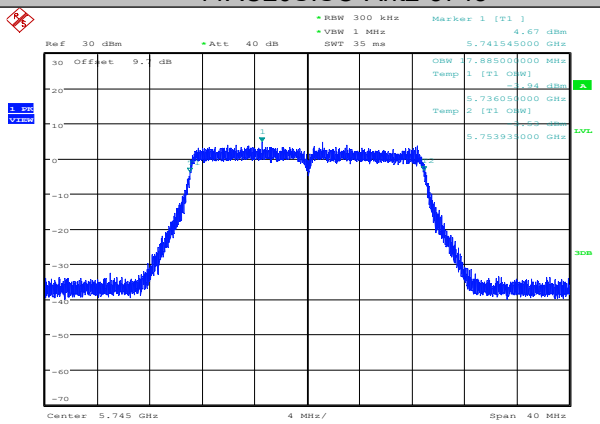

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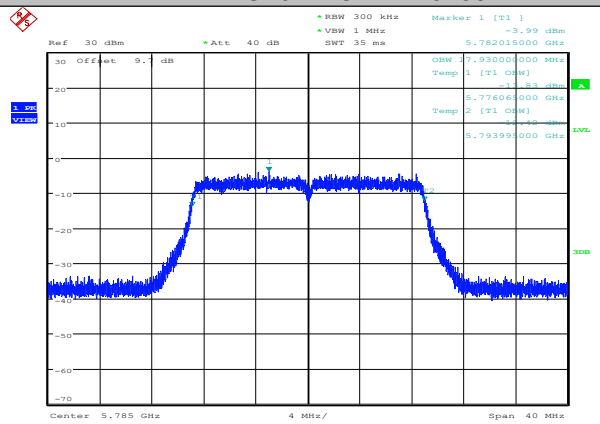

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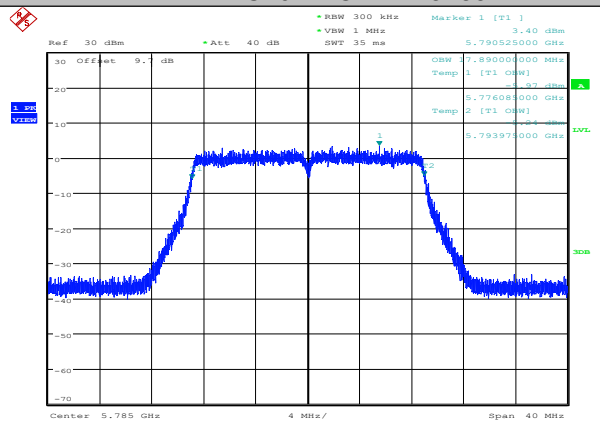

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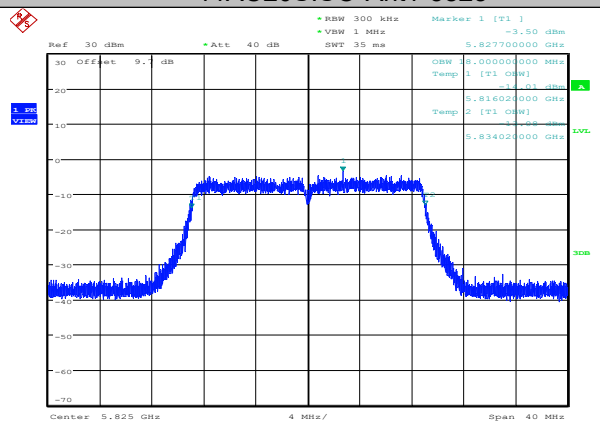

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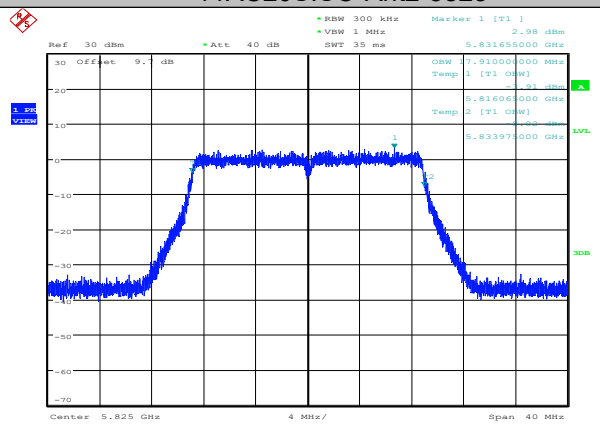

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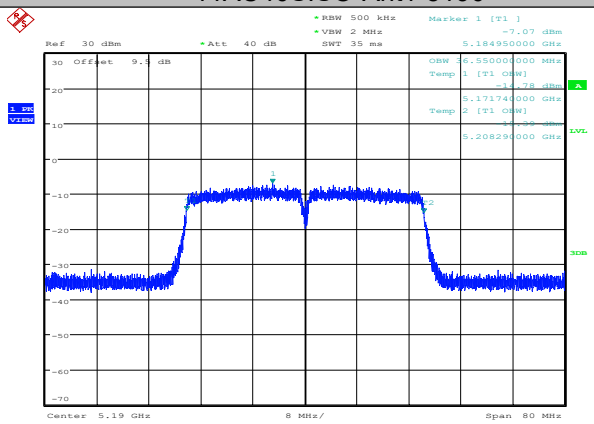

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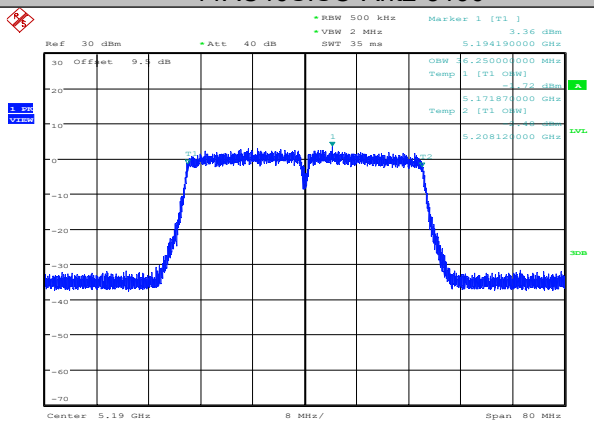

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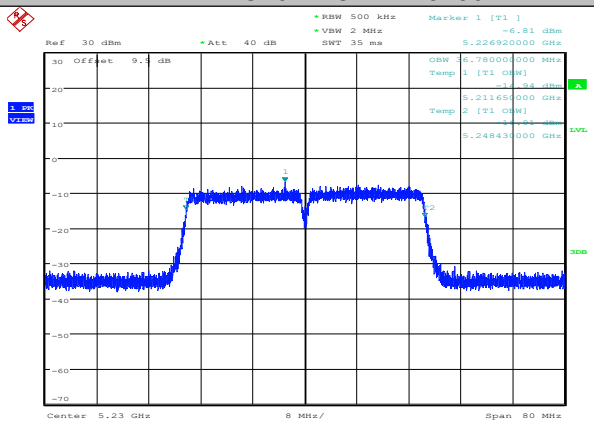

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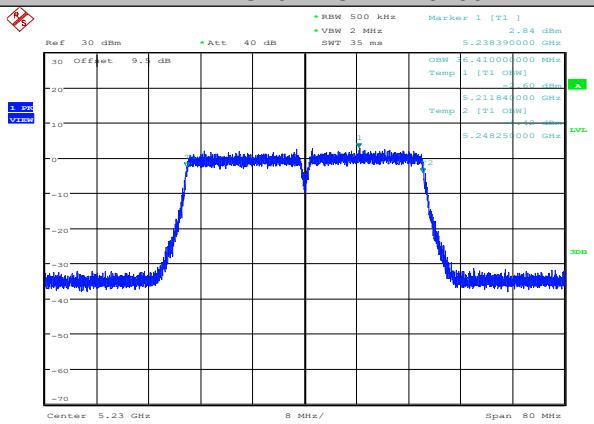

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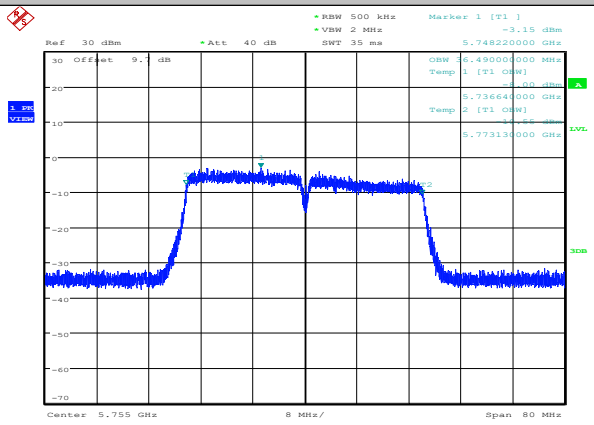

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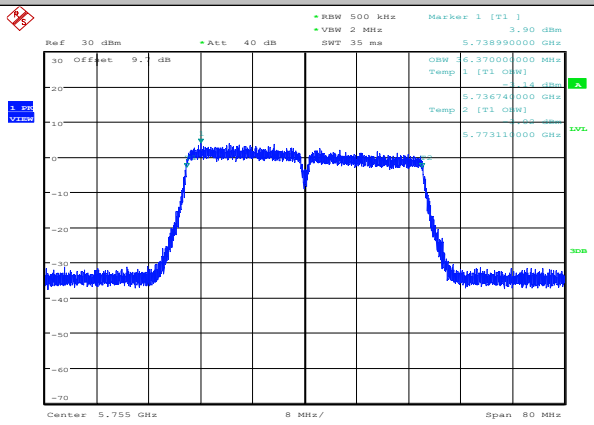

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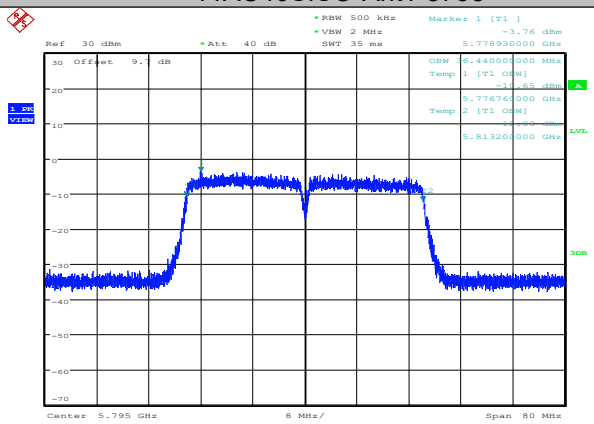

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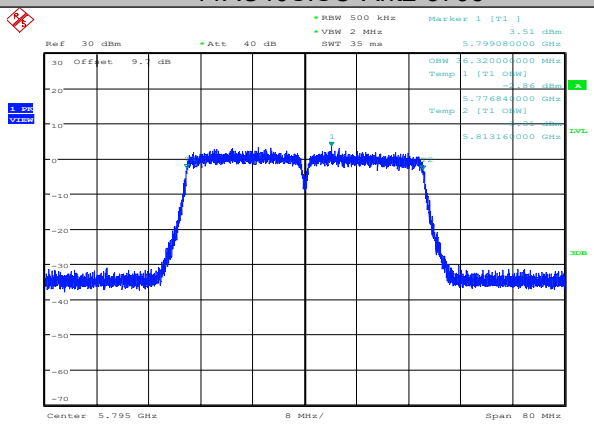

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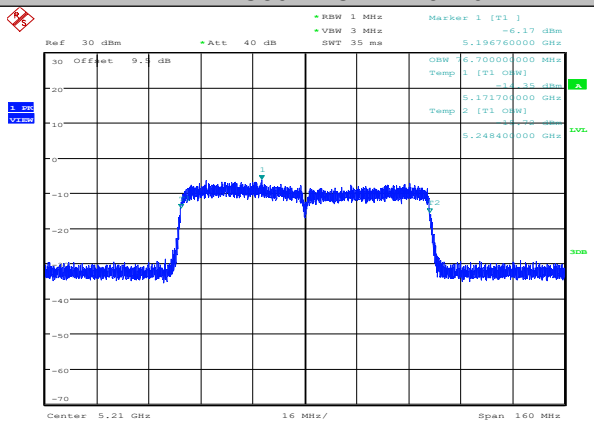

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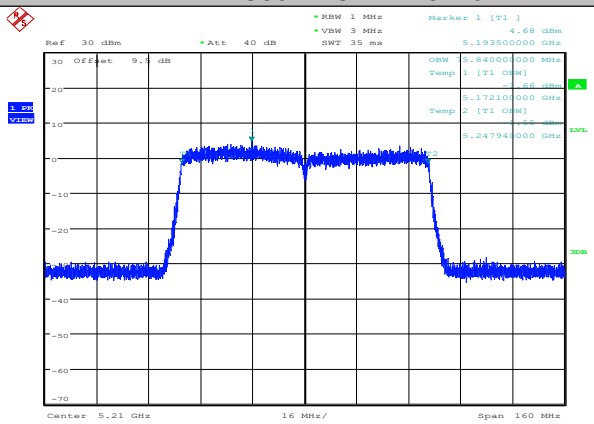

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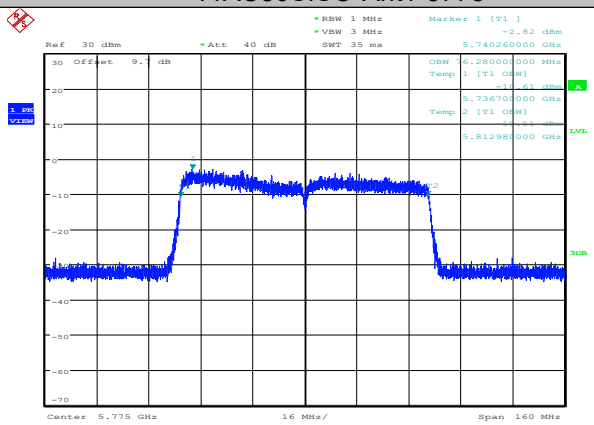

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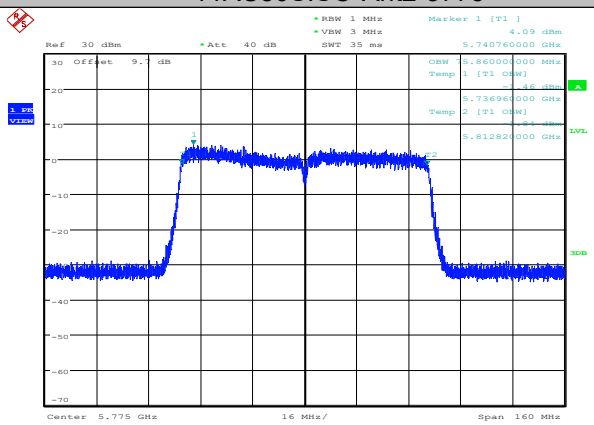

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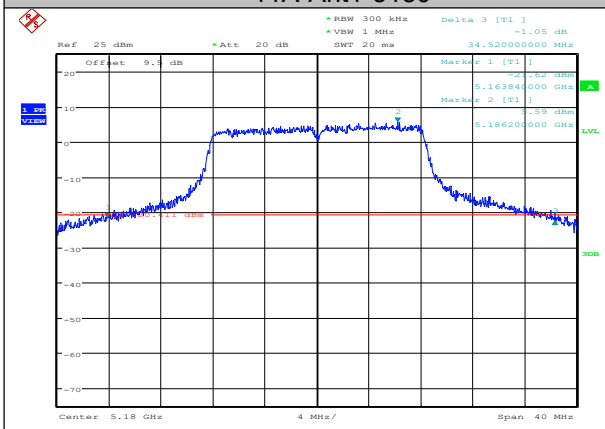
Emission Bandwidth

11A-Ant1-5180



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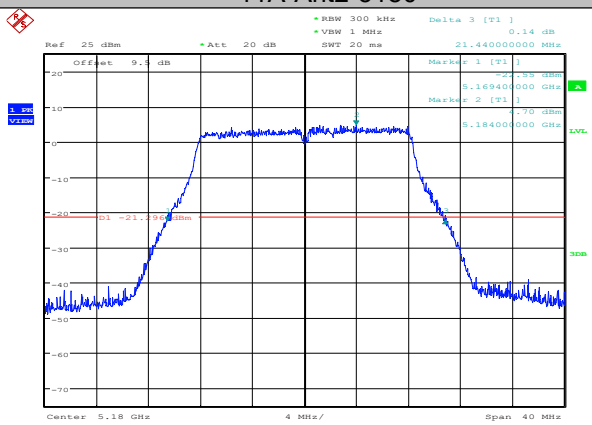

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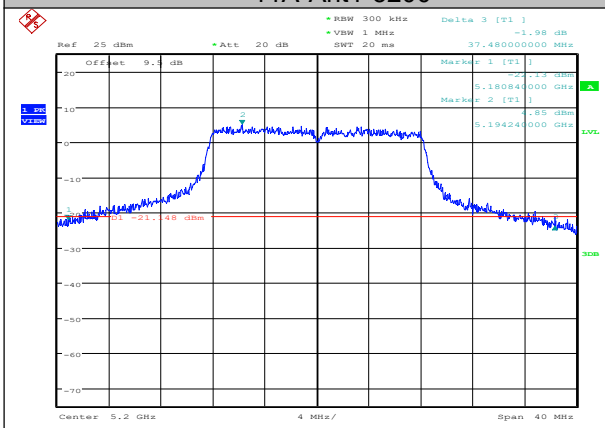

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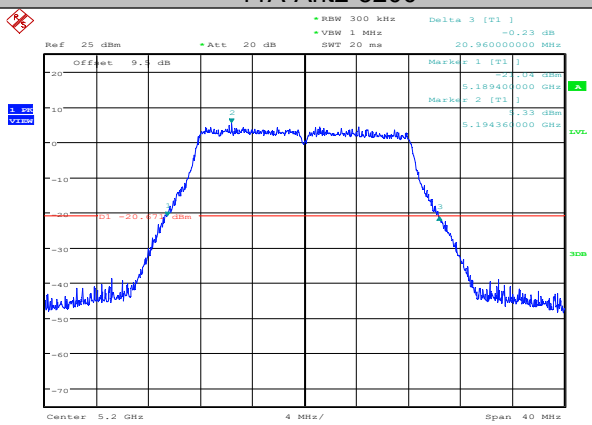

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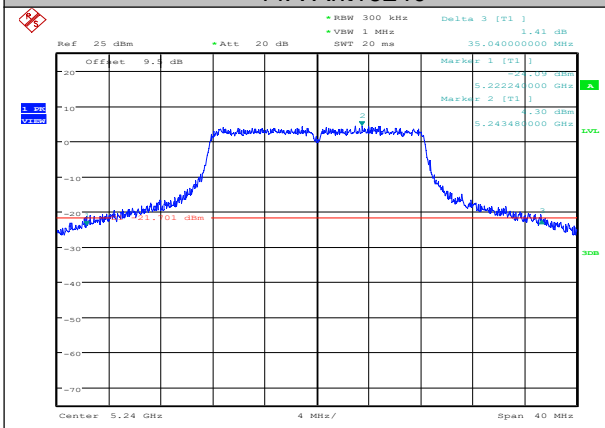
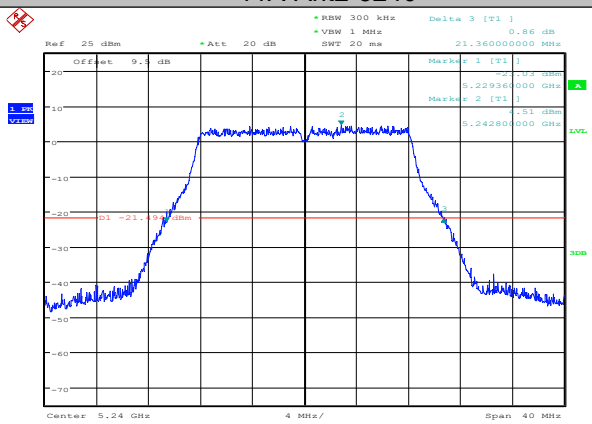
11A-Ant15240



Date: 19.MAY.2021 17:50:20

11A-Ant2-5240



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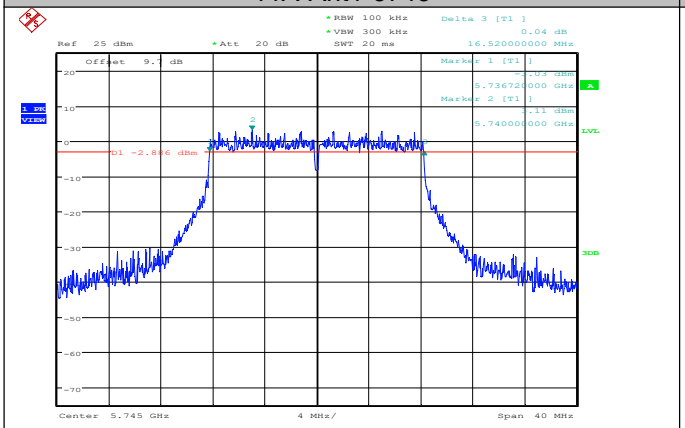
11A-Ant1-5745



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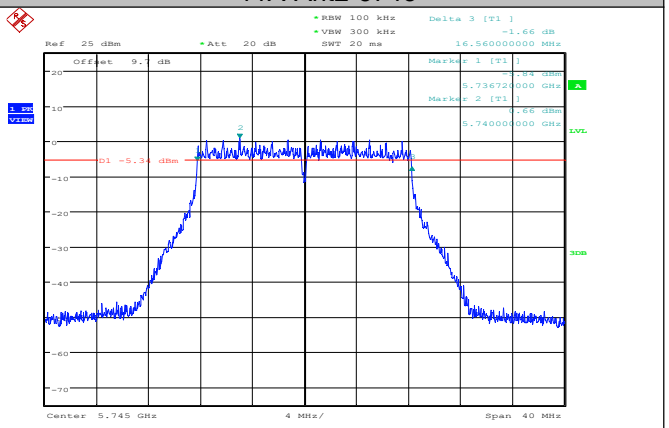

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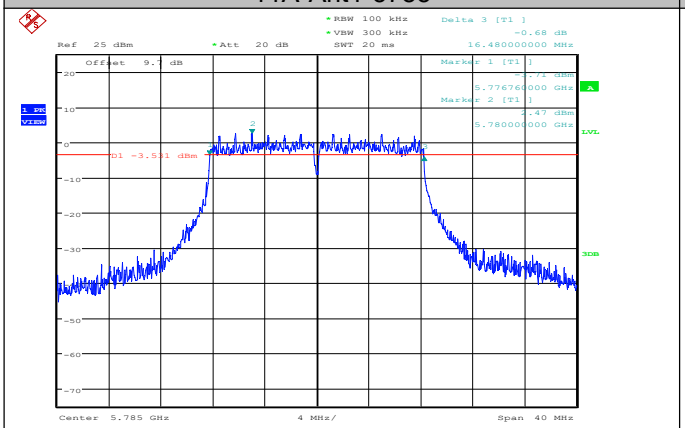
11A-Ant1-5785



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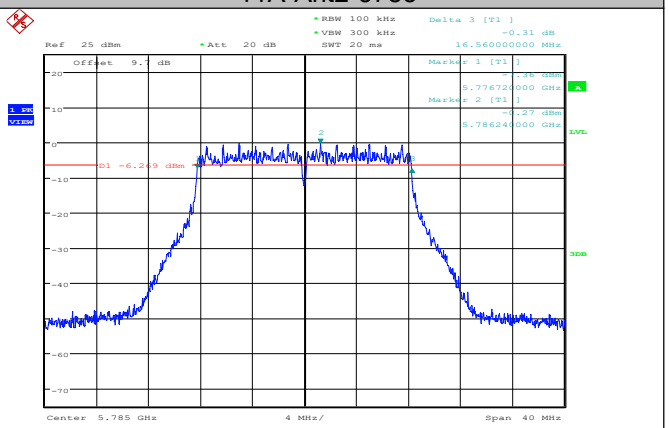
11A-Ant2-5785



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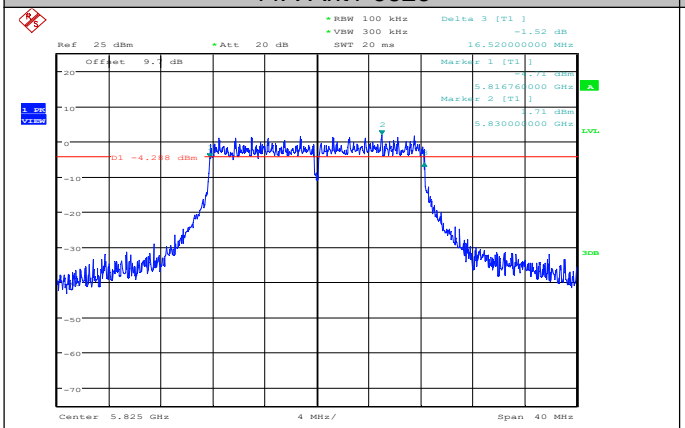

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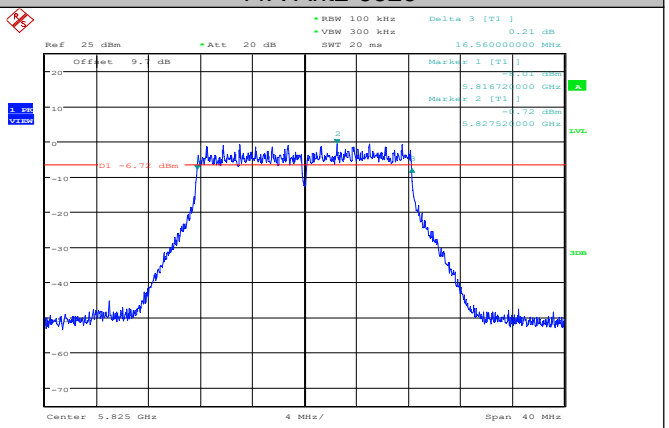

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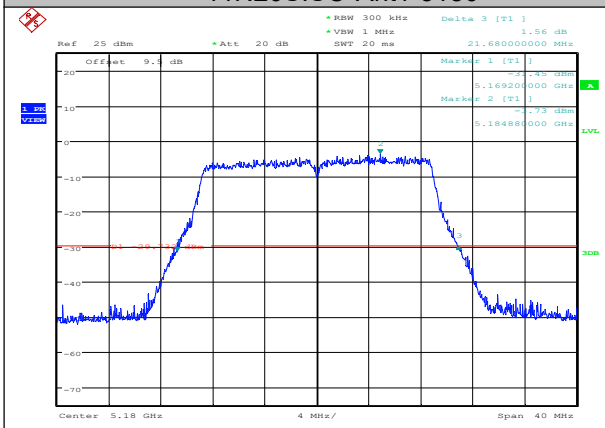
11N20SISO-Ant1-5180



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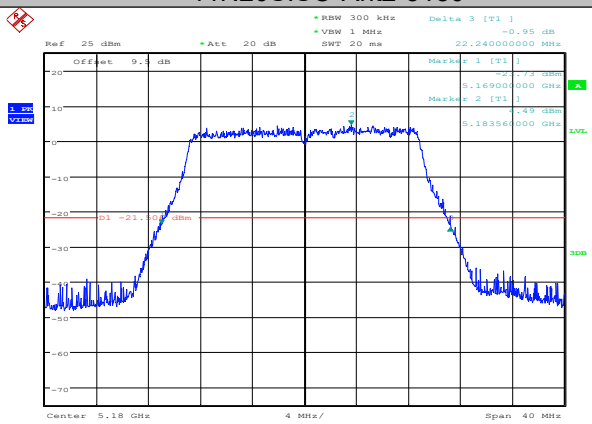

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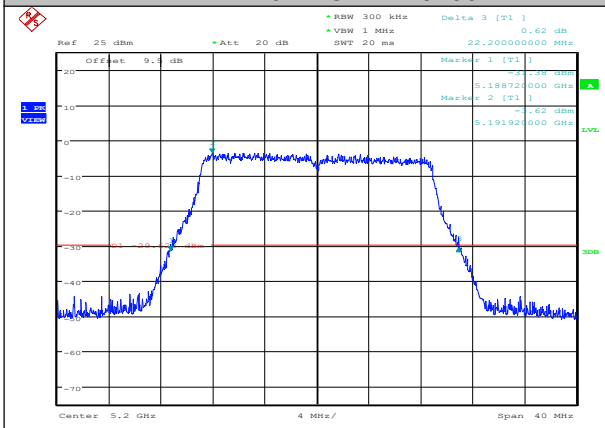

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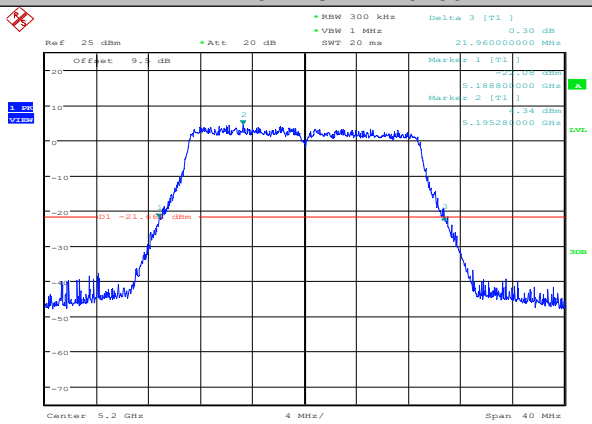
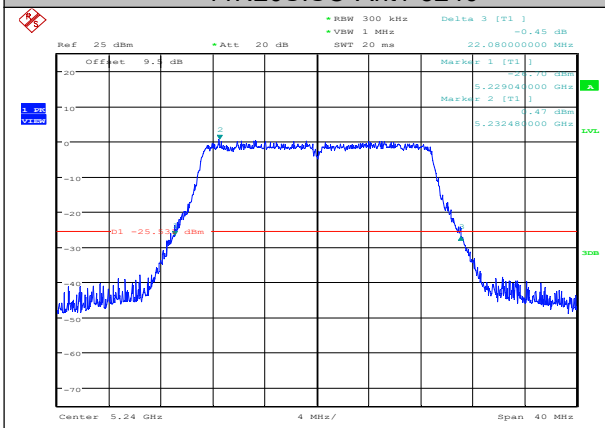


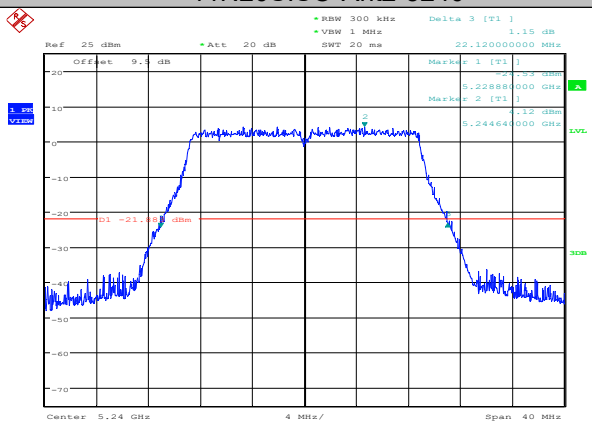
Date: 21.MAY.2021 12:22:59

11N20SISO-Ant1-5240



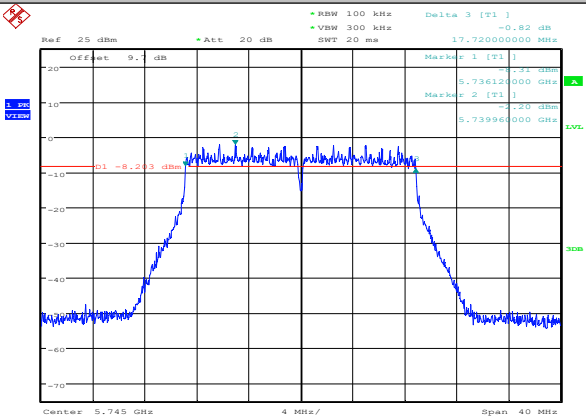
Date: 20.MAY.2021 08:50:23

11N20SISO-Ant2-5240



Date: 21.MAY.2021 12:28:06

11N20SISO-Ant1-5745



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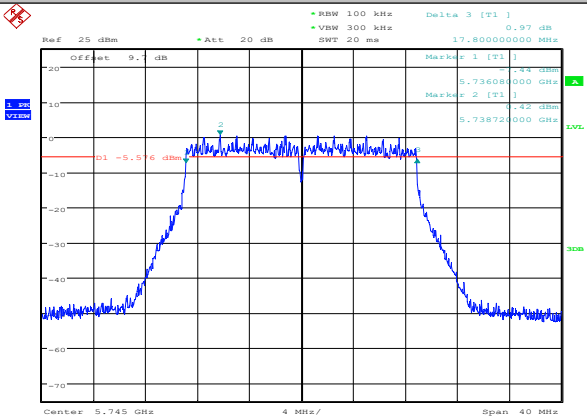
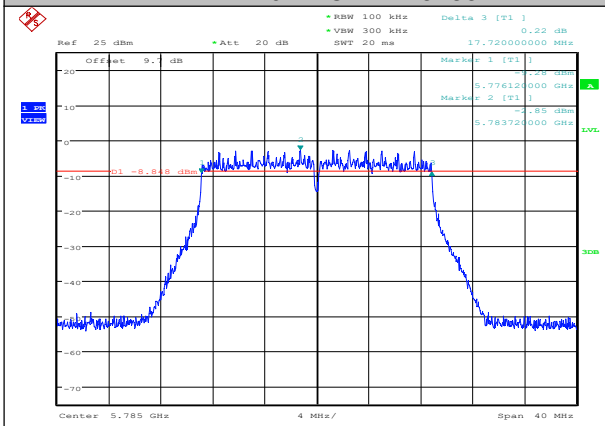


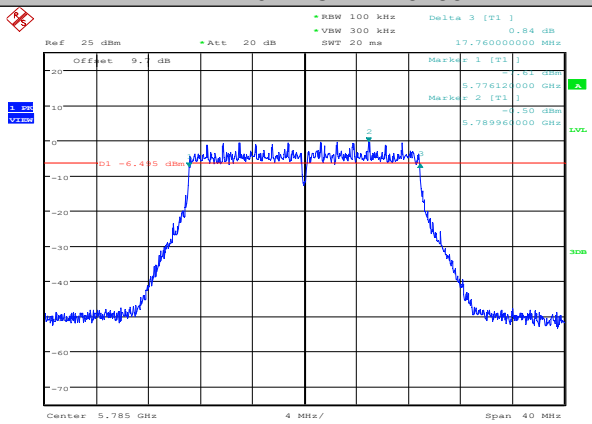
Date: 21.MAY.2021 12:34:10

11N20SISO-Ant1-5785



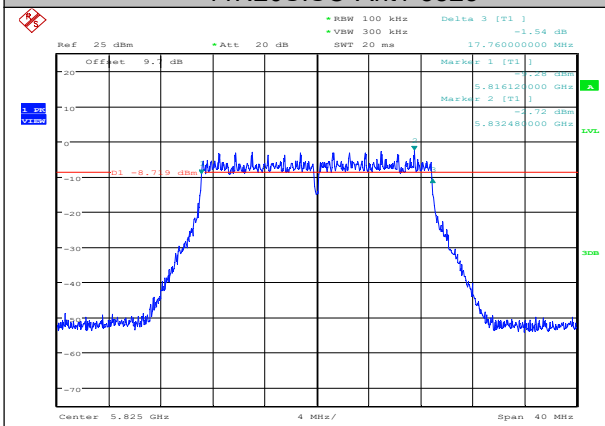
Date: 20.MAY.2021 09:08:06

11N20SISO-Ant2-5785



Date: 21.MAY.2021 12:38:40

11N20SISO-Ant1-5825



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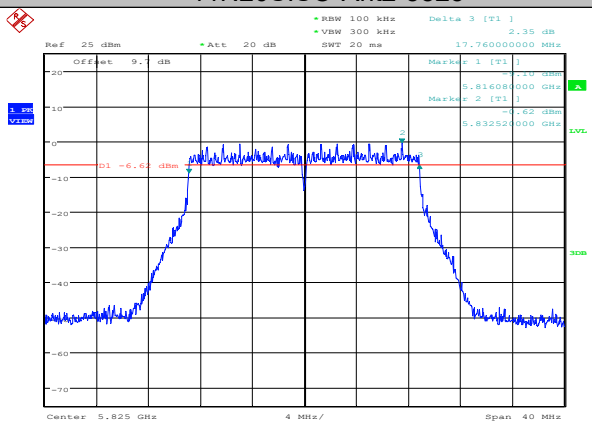

Date: 21.MAY.2021 12:42:43

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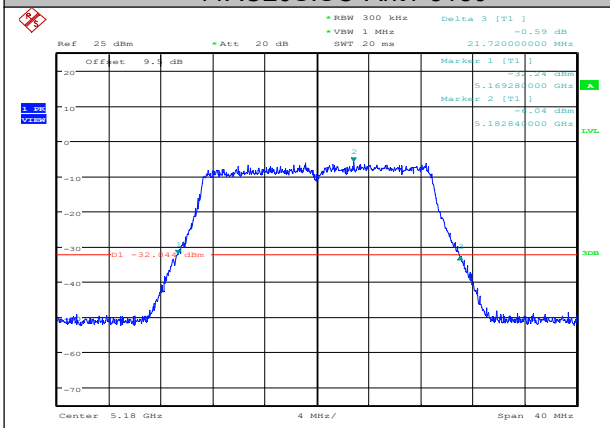

Date: 20.MAY.2021 09:45:25

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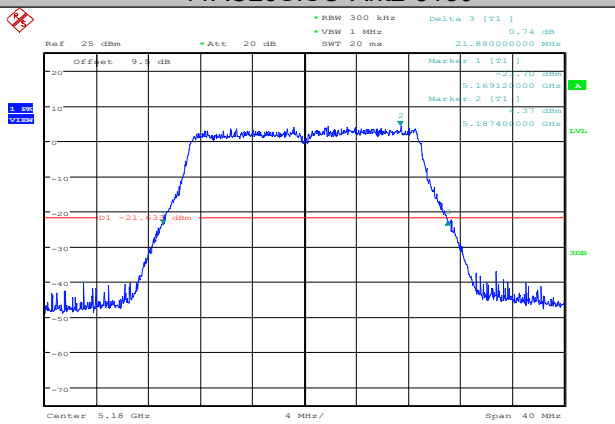

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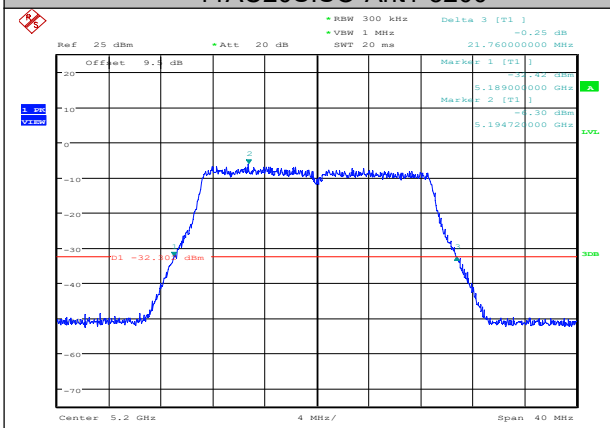

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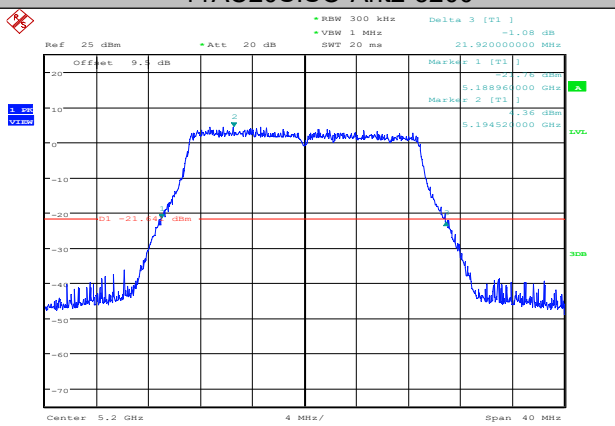

Date: 21.MAY.2021 13:16:21

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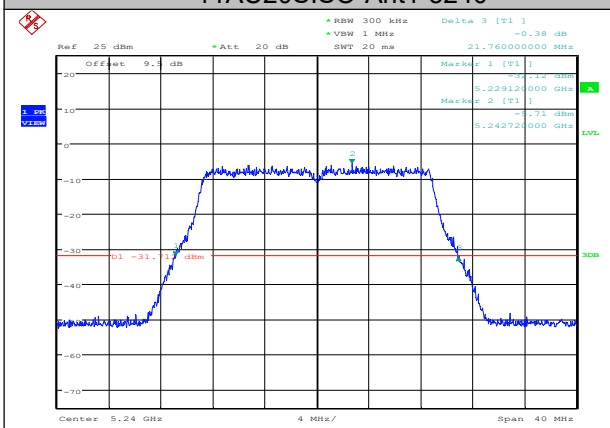
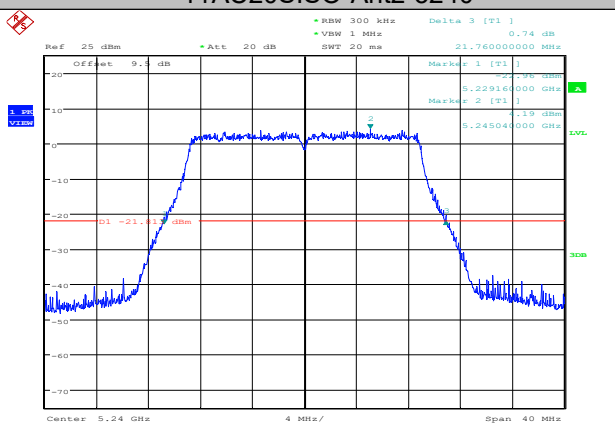


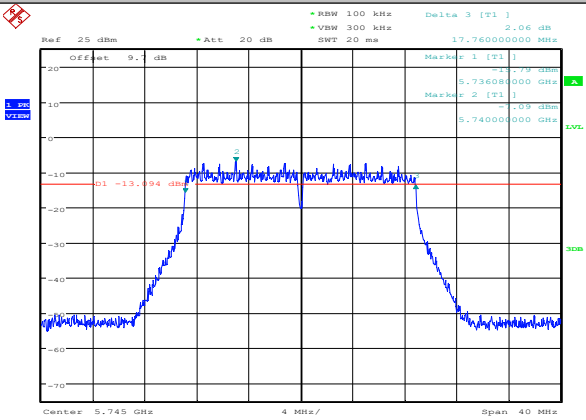
Date: 20.MAY.2021 10:08:23

11AC20SISO-Ant2-5240



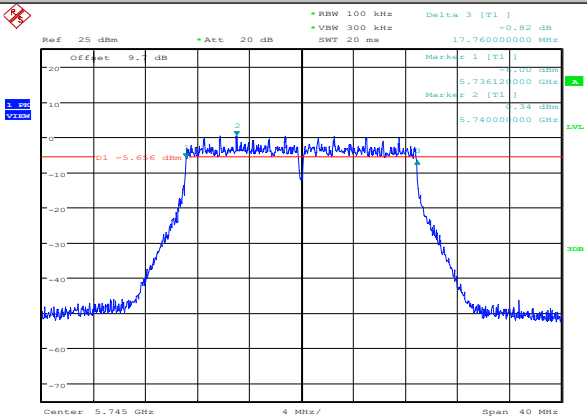
Date: 21.MAY.2021 13:21:14

11AC20SISO-Ant1-5745



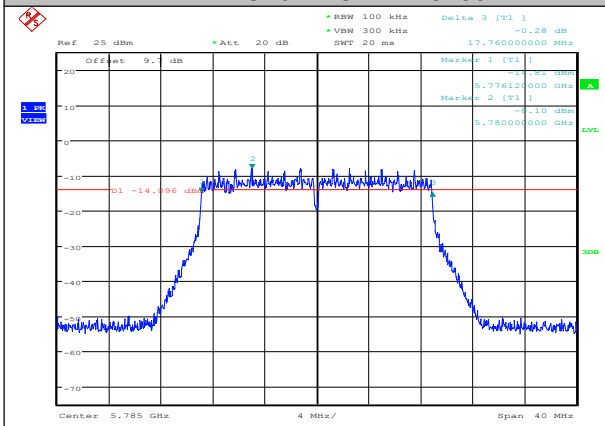
Date: 20.MAY.2021 11:33:17

11AC20SISO-Ant2-5745



Date: 21.MAY.2021 13:26:15

11AC20SISO-Ant1-5785



Date: 20.MAY.2021 11:38:06

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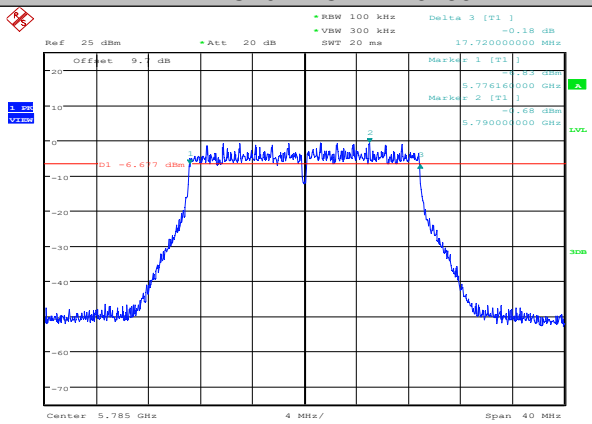

Date: 21.MAY.2021 13:30:49

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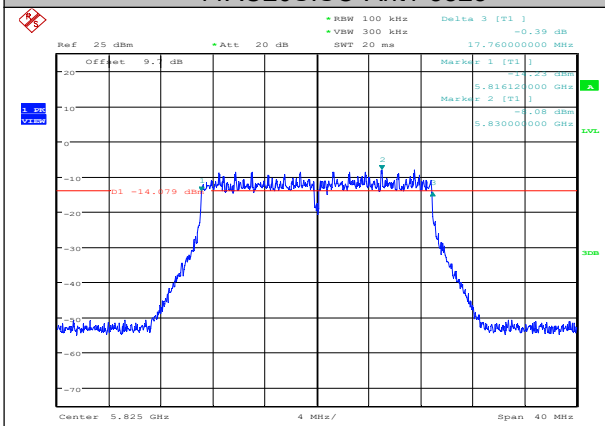
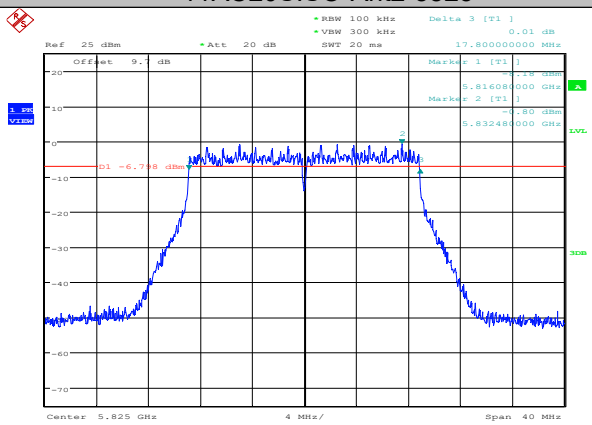


Date: 20.MAY.2021 11:42:25

11AC20SISO-Ant2-5825



Date: 21.MAY.2021 13:35:05

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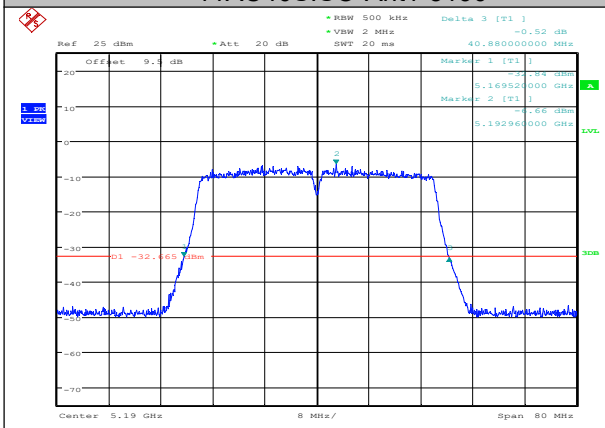
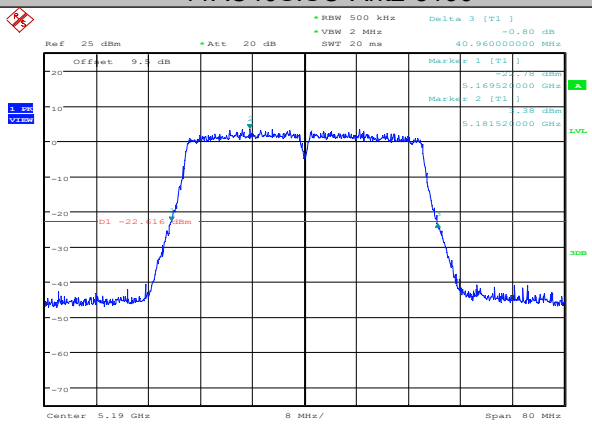


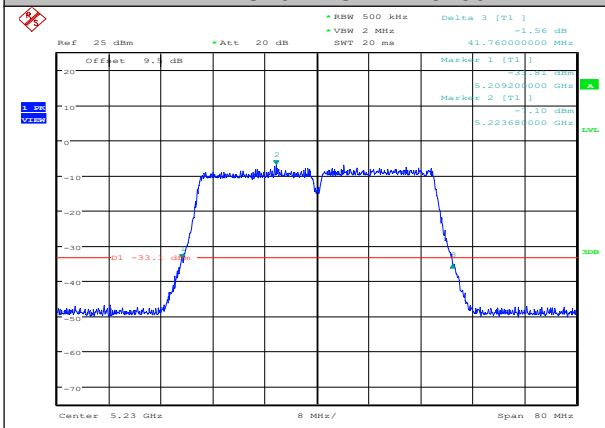
Date: 20.MAY.2021 11:57:41

11AC40SISO-Ant2-5190



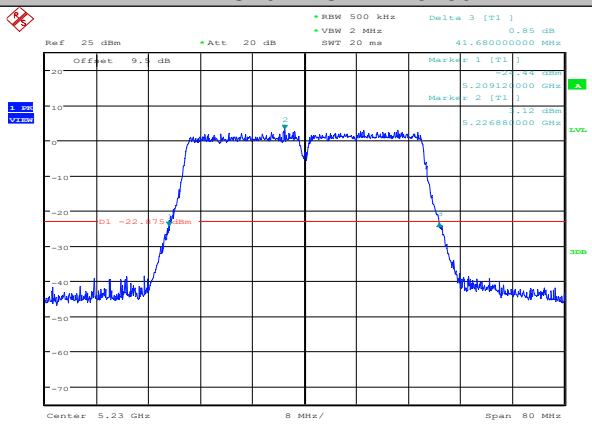
Date: 21.MAY.2021 13:41:45

11AC40SISO-Ant1-5230



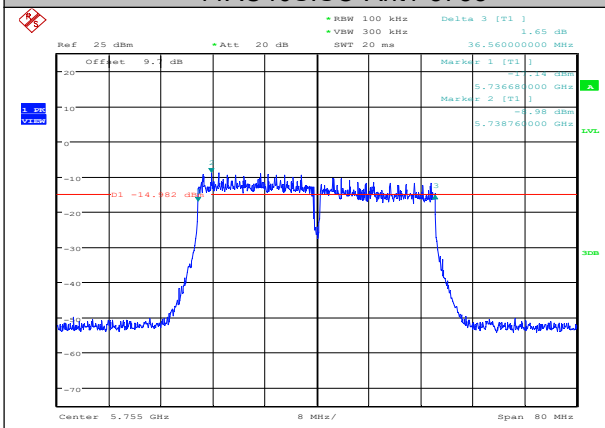
Date: 20.MAY.2021 12:02:31

11AC40SISO-Ant2-5230



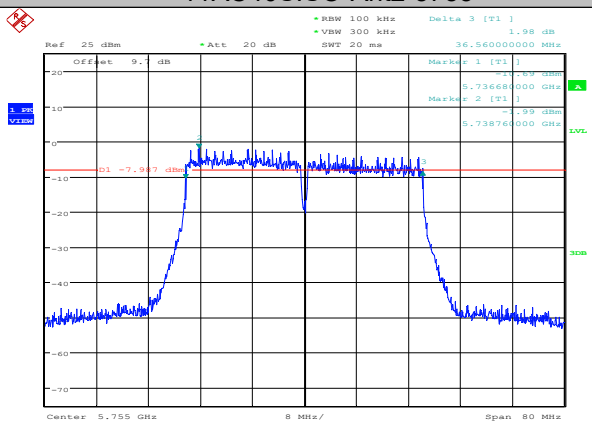
Date: 21.MAY.2021 13:47:13

11AC40SISO-Ant1-5755



Date: 20.MAY.2021 12:12:19

11AC40SISO-Ant2-5755



Date: 21.MAY.2021 13:53:39

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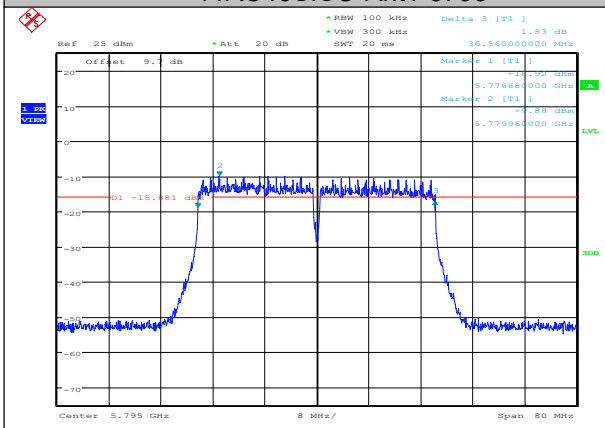
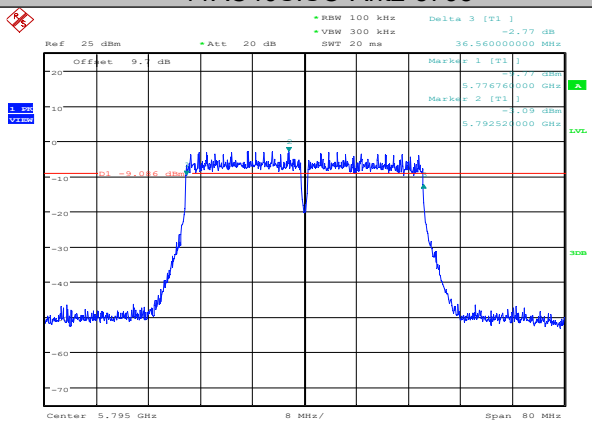


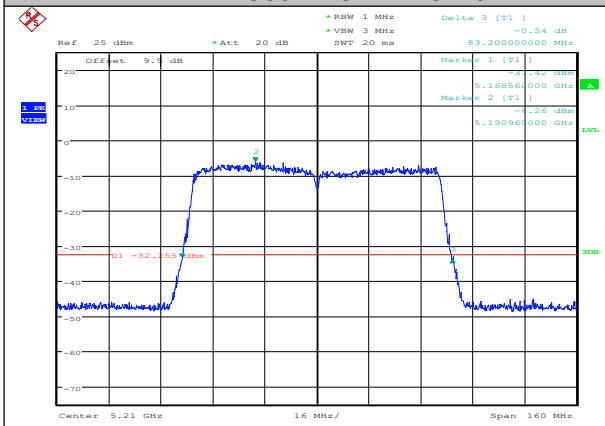
Date: 20.MAY.2021 12:17:28

11AC40SISO-Ant2-5795



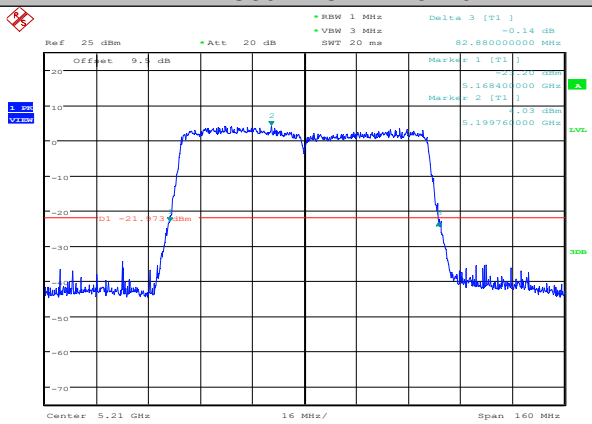
Date: 21.MAY.2021 14:10:01

11AC80SISO-Ant1-5210



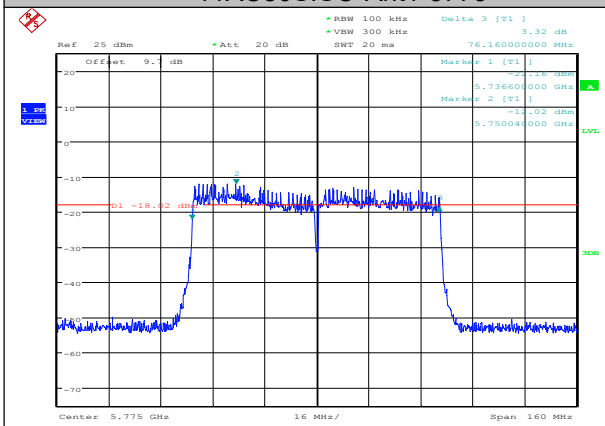
Date: 20.MAY.2021 12:23:25

11AC80SISO-Ant2-5210



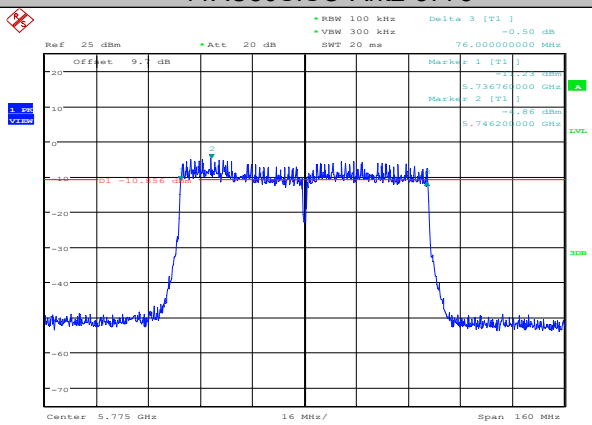
Date: 21.MAY.2021 14:19:23

11AC80SISO-Ant1-5775



Date: 20.MAY.2021 12:36:17

11AC80SISO-Ant2-5775



Date: 21.MAY.2021 14:24:43

Appendix B): Maximum Conduct Output Power

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	limit[dBm]	Verdict
11A	Ant1	5180	13.27	14.41	24	PASS
11A	Ant2	5180	12.79	14.41	24	PASS
11A	Ant1	5200	12.75	13.9	24	PASS
11A	Ant2	5200	12.63	13.91	24	PASS
11A	Ant1	5240	12.48	13.51	24	PASS
11A	Ant2	5240	12.6	13.74	24	PASS
11A	Ant1	5745	14.95	16.07	30	PASS
11A	Ant2	5745	12.56	13.83	30	PASS
11A	Ant1	5785	14.43	15.57	30	PASS
11A	Ant2	5785	11.67	12.81	30	PASS
11A	Ant1	5825	13.53	15.21	30	PASS
11A	Ant2	5825	11.45	12.56	30	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**Av.Power [dBm]**	**limit[dBm]**	**Verdict**
11N20SISO	Ant1	5180	4.08	5.48	24	PASS
11N20SISO	Ant2	5180	12.76	14.05	24	PASS
11N20SISO	Ant1	5200	5	6.32	24	PASS
11N20SISO	Ant2	5200	12.46	13.86	24	PASS
11N20SISO	Ant1	5240	8.73	10.13	24	PASS
11N20SISO	Ant2	5240	12.7	13.83	24	PASS
11N20SISO	Ant1	5745	9.79	11.02	30	PASS
11N20SISO	Ant2	5745	12.62	14.25	30	PASS
11N20SISO	Ant1	5785	9.23	10.63	30	PASS
11N20SISO	Ant2	5785	11.67	13.09	30	PASS
11N20SISO	Ant1	5825	9.13	10.49	30	PASS
11N20SISO	Ant2	5825	11.58	13.18	30	PASS

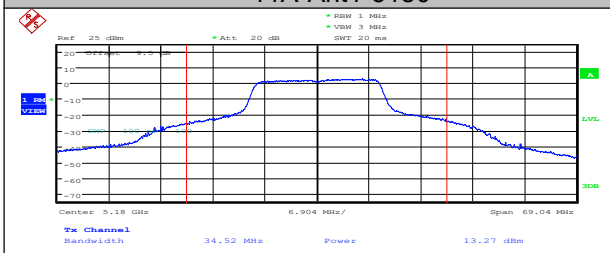
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	limit[dBm]	Verdict
11AC20SISO	Ant1	5180	1.92	2.71	24	PASS
11AC20SISO	Ant2	5180	12.34	13.11	24	PASS
11AC20SISO	Ant1	5200	1.45	2.23	24	PASS
11AC20SISO	Ant2	5200	12.33	13.1	24	PASS
11AC20SISO	Ant1	5240	2.08	2.81	24	PASS
11AC20SISO	Ant2	5240	12.13	12.9	24	PASS
11AC20SISO	Ant1	5745	4.81	5.57	30	PASS
11AC20SISO	Ant2	5745	12.41	13.18	30	PASS
11AC20SISO	Ant1	5785	4.11	4.82	30	PASS
11AC20SISO	Ant2	5785	11.39	12.17	30	PASS
11AC20SISO	Ant1	5825	3.84	4.62	30	PASS
11AC20SISO	Ant2	5825	11.32	12.1	30	PASS
11AC40SISO	Ant1	5190	1.83	3.24	24	PASS
11AC40SISO	Ant2	5190	12.23	13.74	24	PASS
11AC40SISO	Ant1	5230	1.57	2.9	24	PASS
11AC40SISO	Ant2	5230	11.87	13.38	24	PASS
11AC40SISO	Ant1	5755	5.26	6.73	30	PASS
11AC40SISO	Ant2	5755	12.27	13.76	30	PASS
11AC40SISO	Ant1	5795	5.13	6.48	30	PASS
11AC40SISO	Ant2	5795	12.09	13.47	30	PASS
11AC80SISO	Ant1	5210	2.29	4.79	24	PASS
11AC80SISO	Ant2	5210	12.63	15.13	24	PASS
11AC80SISO	Ant1	5775	5.02	7.37	30	PASS
11AC80SISO	Ant2	5775	12.32	14.84	30	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	limit[dBm]	Verdict
11N20MIMO	Ant 1+2	5180	12.88	14.28	23.99	PASS
11N20MIMO	Ant 1+2	5200	12.56	13.97	23.99	PASS
11N20MIMO	Ant 1+2	5240	12.51	13.8	23.99	PASS
11N20MIMO	Ant 1+2	5745	12.69	13.97	29.99	PASS
11N20MIMO	Ant 1+2	5785	11.68	13.1	29.99	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	limit[dBm]	Verdict
11AC20MIMO	Ant 1+2	5180	12.63	13.42	23.99	PASS
11AC20MIMO	Ant 1+2	5200	12.41	13.18	23.99	PASS
11AC20MIMO	Ant 1+2	5240	12.11	12.89	23.99	PASS
11AC20MIMO	Ant 1+2	5745	12.27	13.16	29.99	PASS
11AC20MIMO	Ant 1+2	5785	11.35	12.13	29.99	PASS
11AC20MIMO	Ant 1+2	5825	11.13	11.91	29.99	PASS
11AC40MIMO	Ant 1+2	5190	12.53	13.86	23.99	PASS
11AC40MIMO	Ant 1+2	5230	11.82	13.15	23.99	PASS
11AC40MIMO	Ant 1+2	5755	12.21	13.7	29.99	PASS
11AC40MIMO	Ant 1+2	5795	12.03	13.54	29.99	PASS
11AC80MIMO	Ant 1+2	5210	12.43	14.66	23.99	PASS
11AC80MIMO	Ant 1+2	5775	12.16	14.66	29.99	PASS

Test Graph

11A-Ant1-5180



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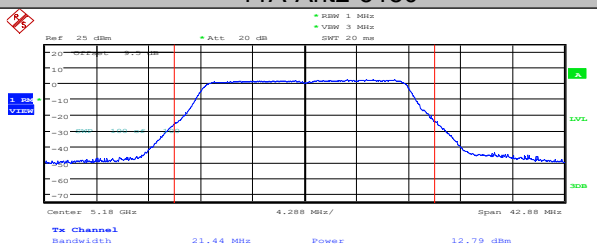
11A-Ant2-5180



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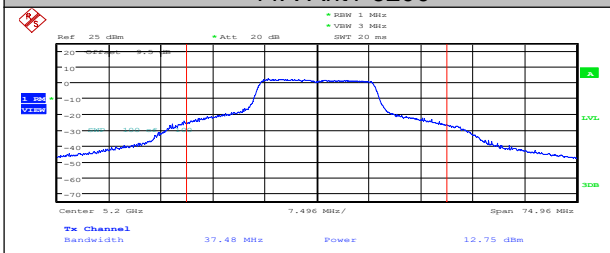
11A-Ant1-5200



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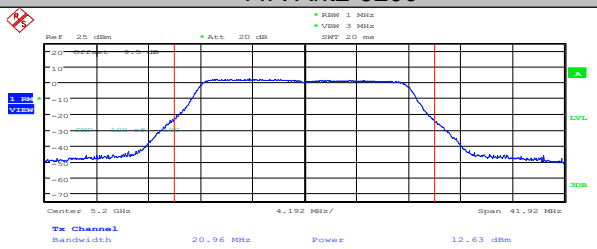

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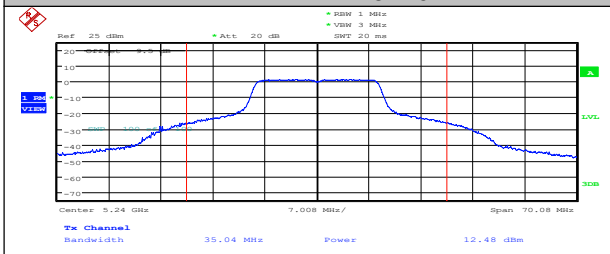
11A-Ant1-5240



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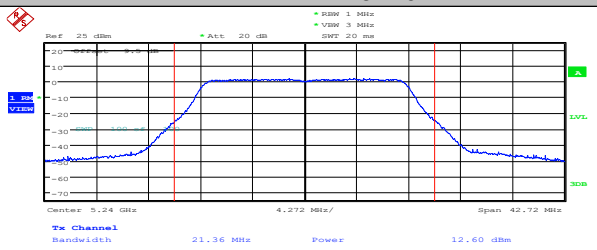

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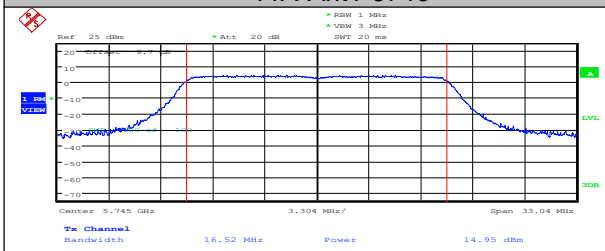

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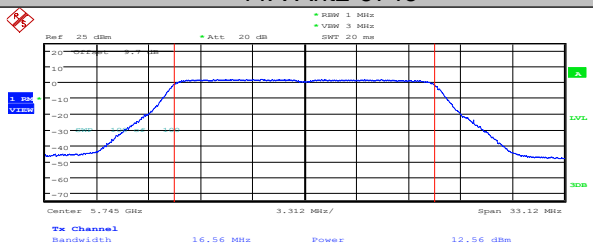

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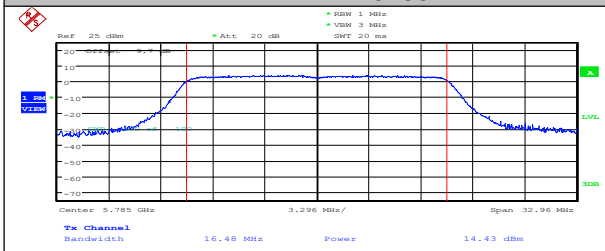
11A-Ant1-5785



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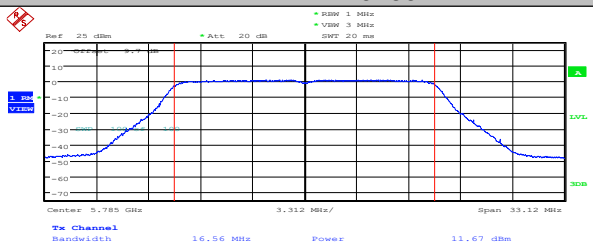

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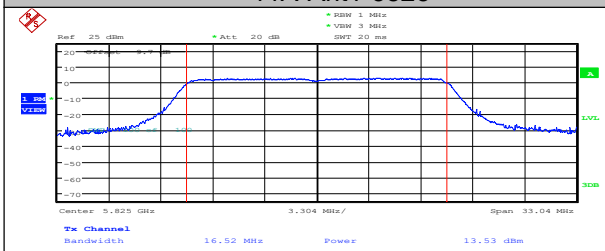
11A-Ant1-5825



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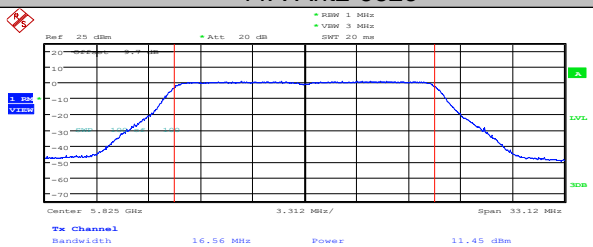

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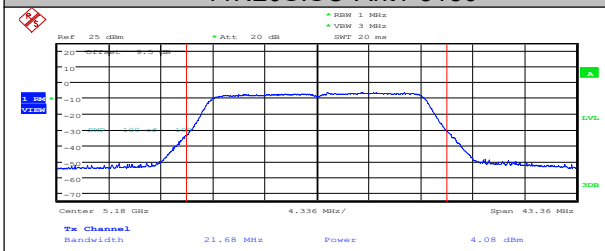

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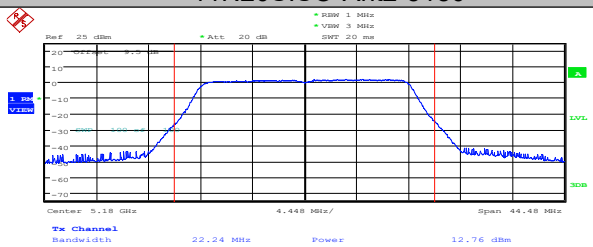

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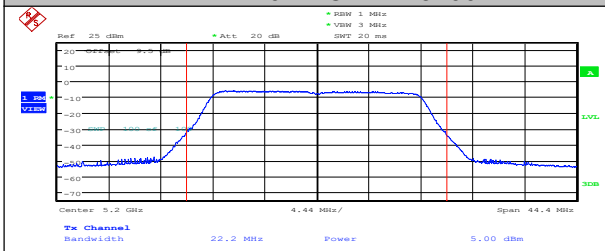

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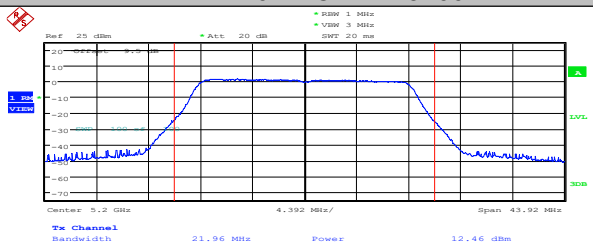

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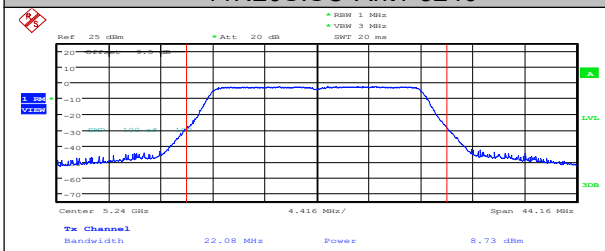

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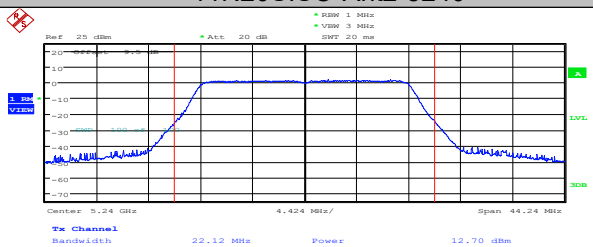

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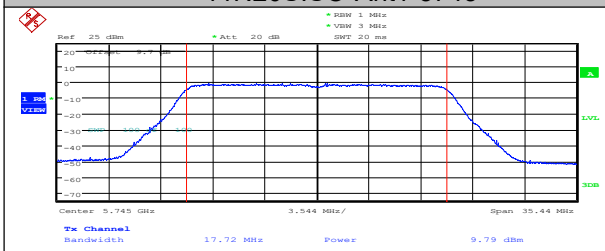

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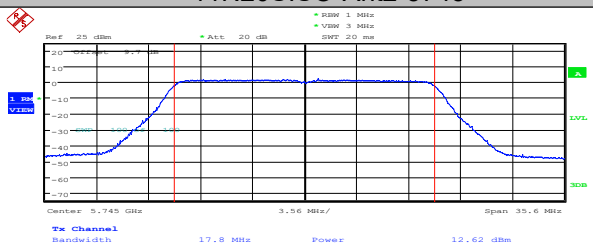

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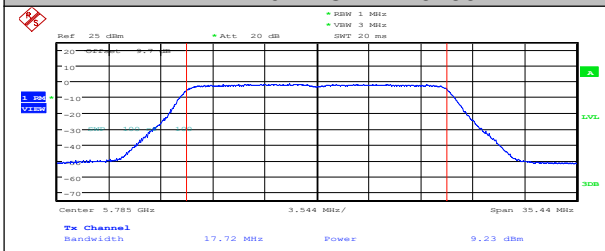

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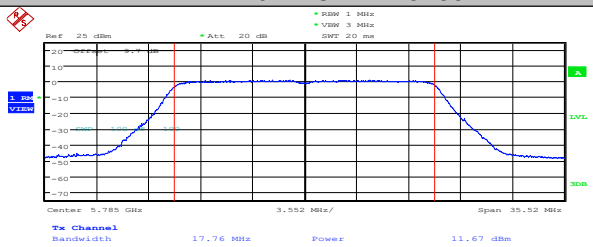

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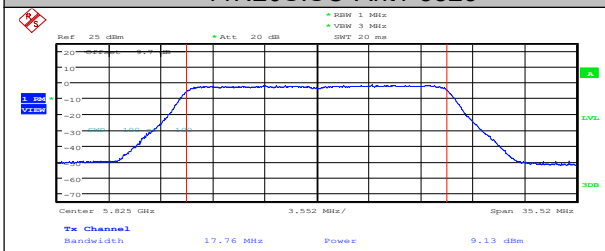

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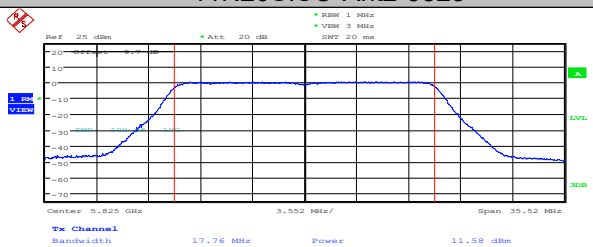

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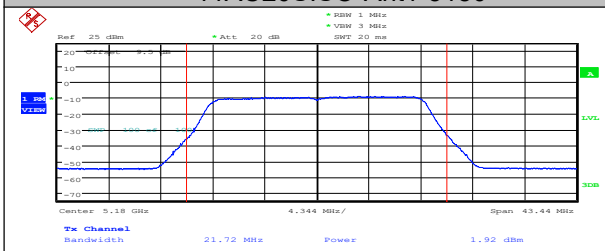

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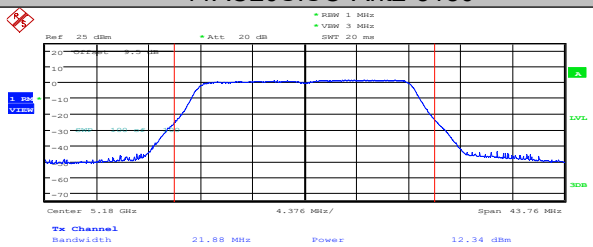

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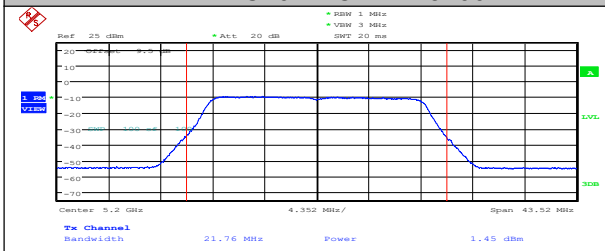

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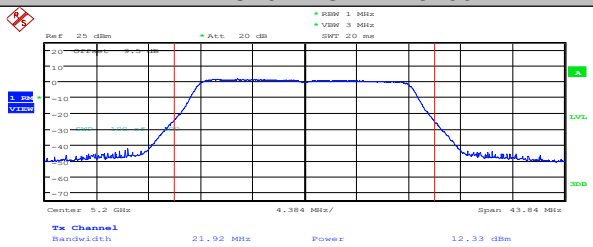

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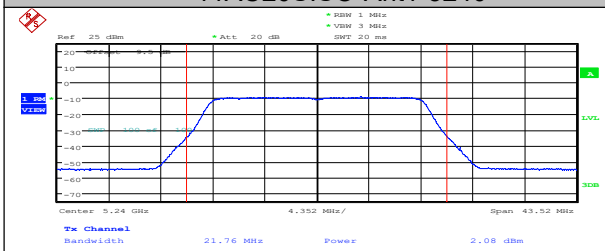

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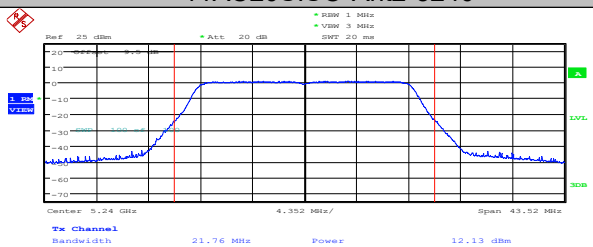

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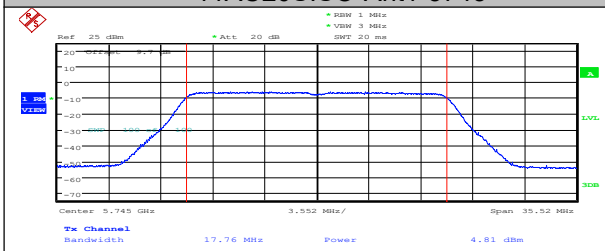

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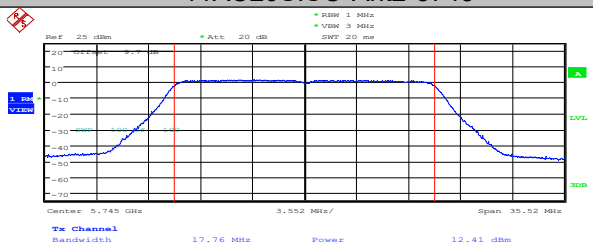

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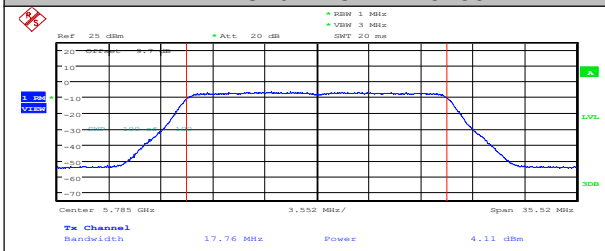

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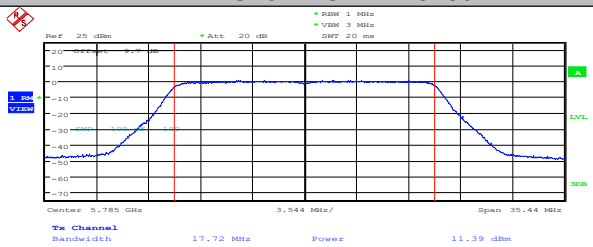

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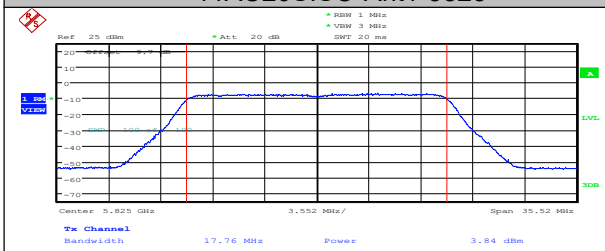

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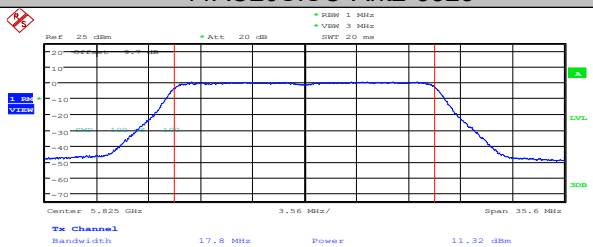

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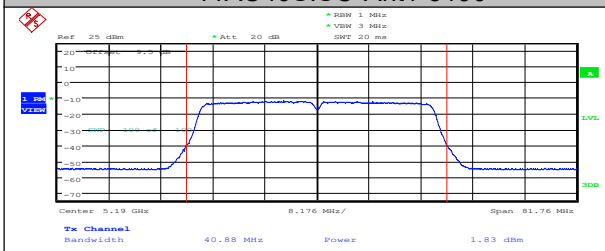

Date: 20.MAY.2021 11:58:54

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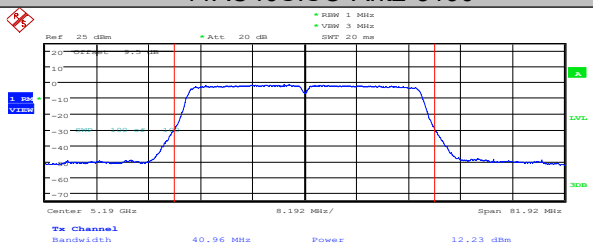

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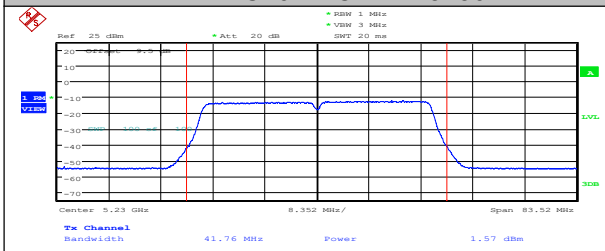

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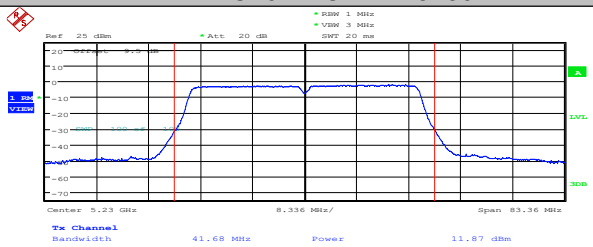

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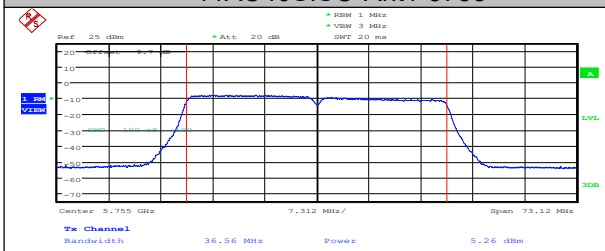
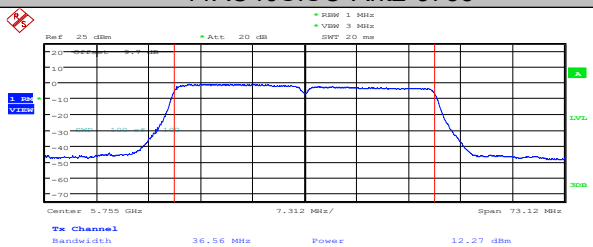


Date: 20.MAY.2021 12:13:32

11AC40SISO-Ant2-5755



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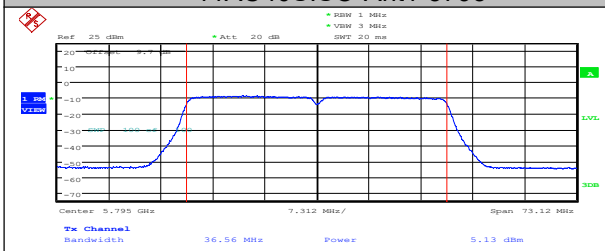

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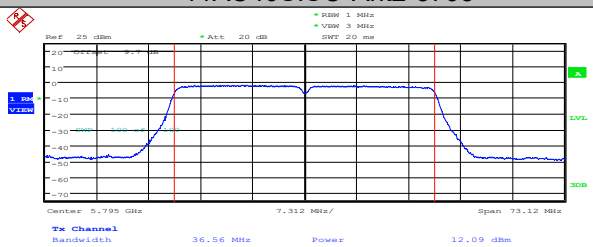

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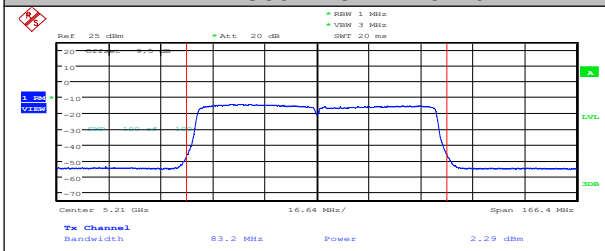
11AC80SISO-Ant1-5210



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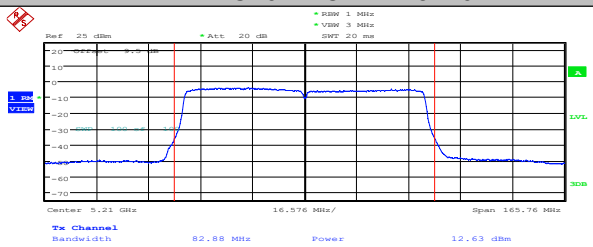

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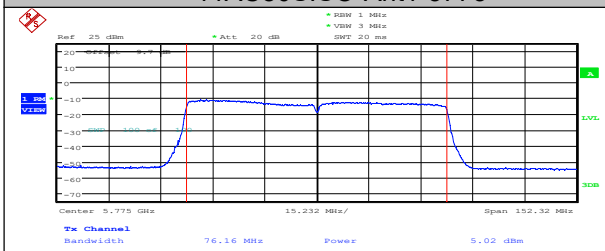

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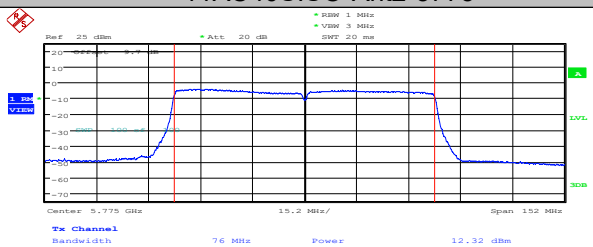

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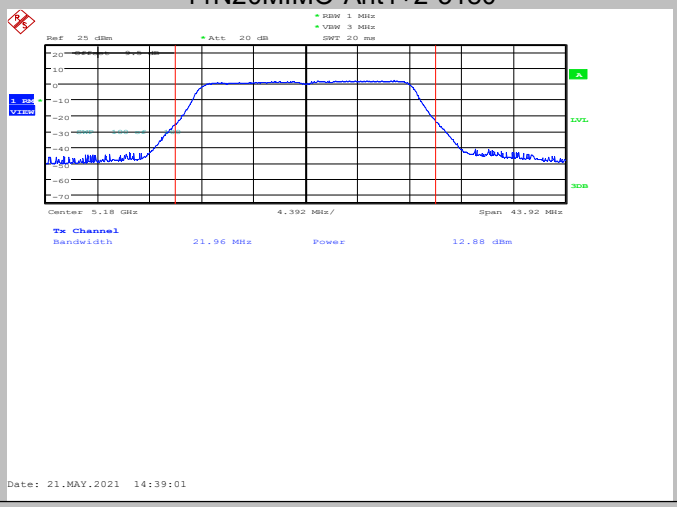

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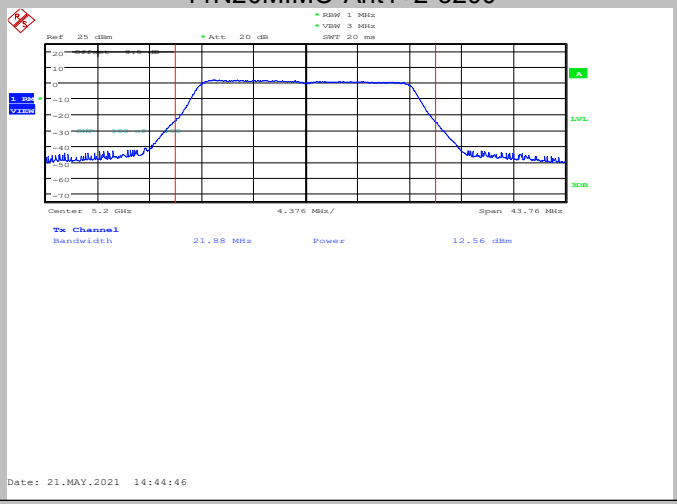

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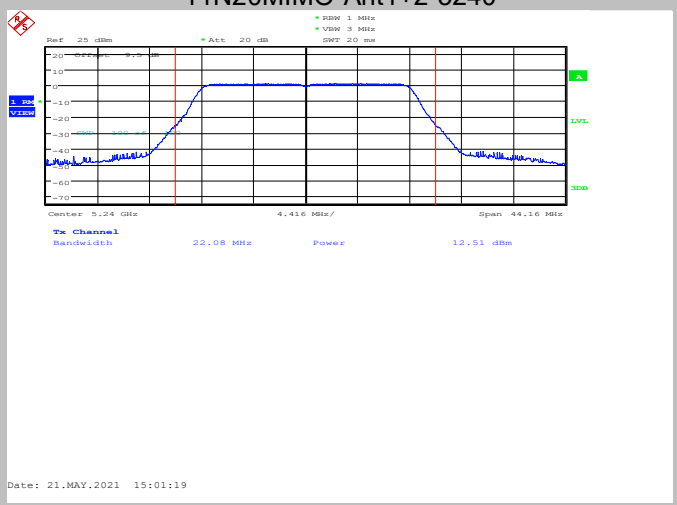

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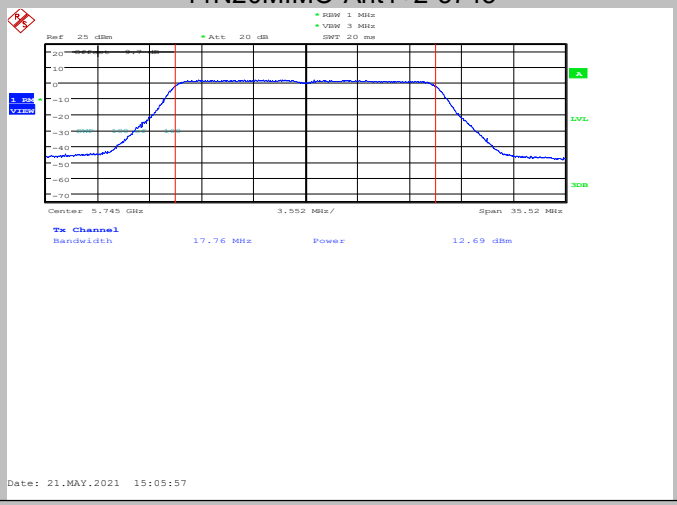

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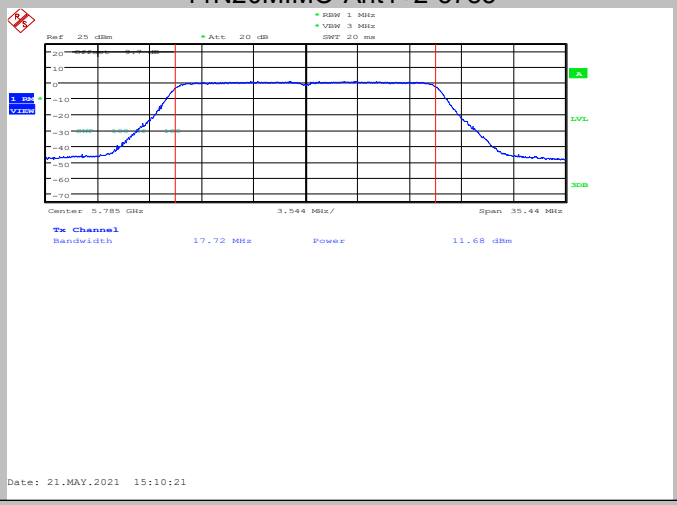

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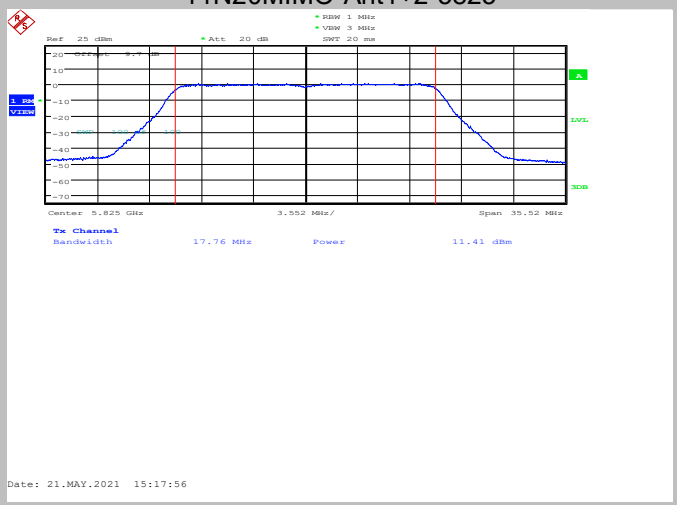

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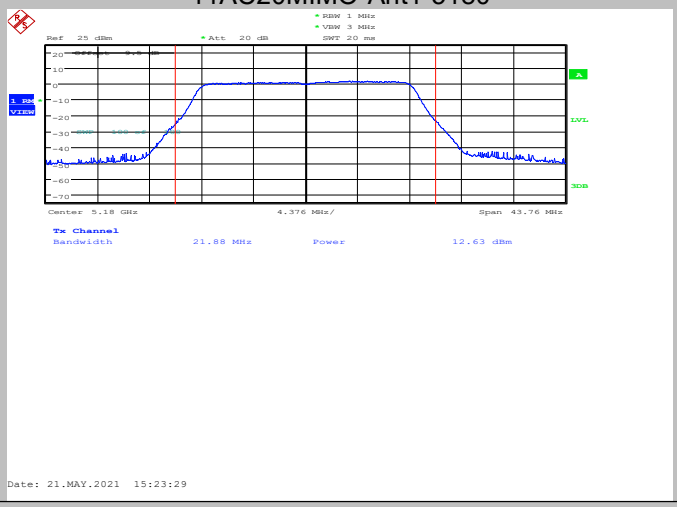

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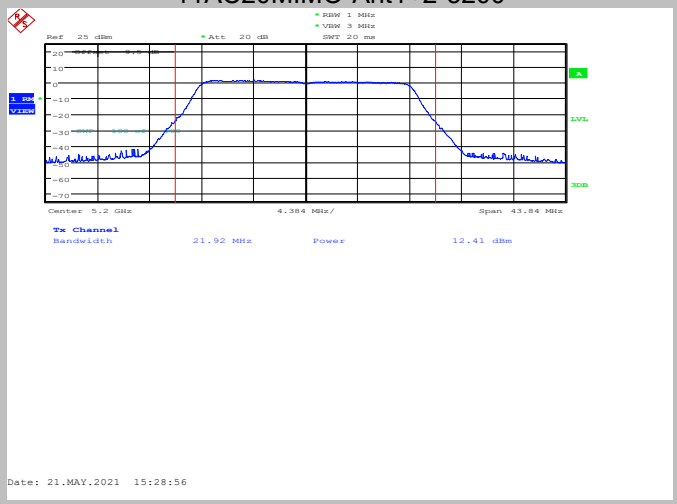

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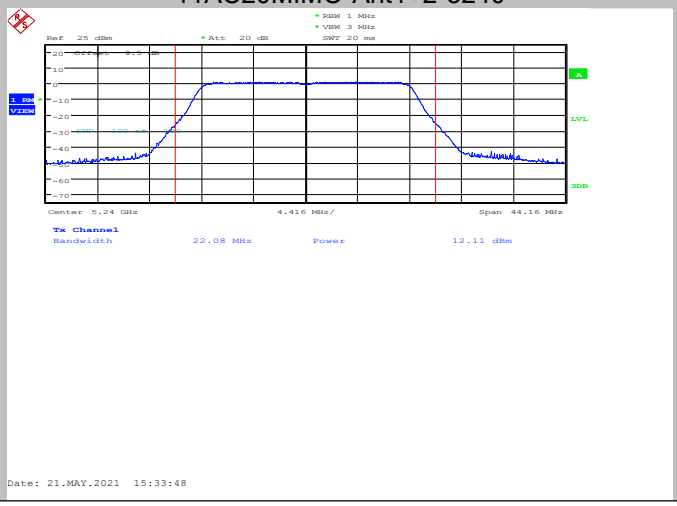

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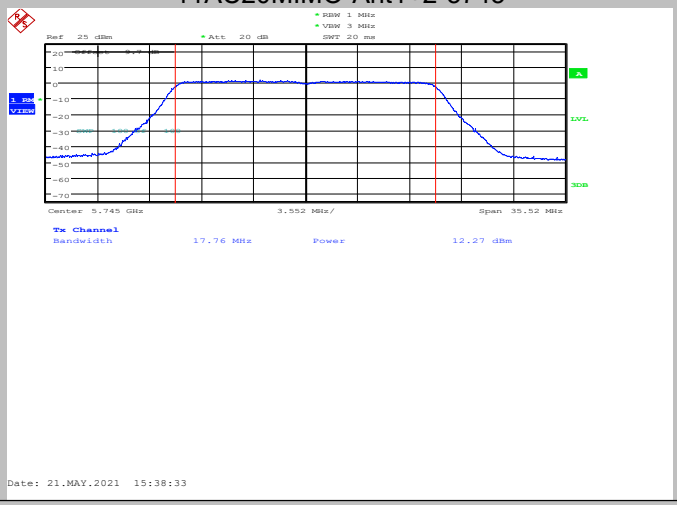

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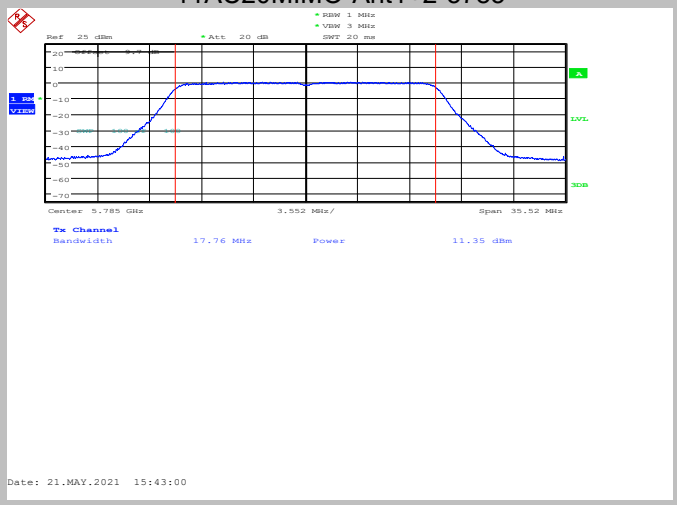

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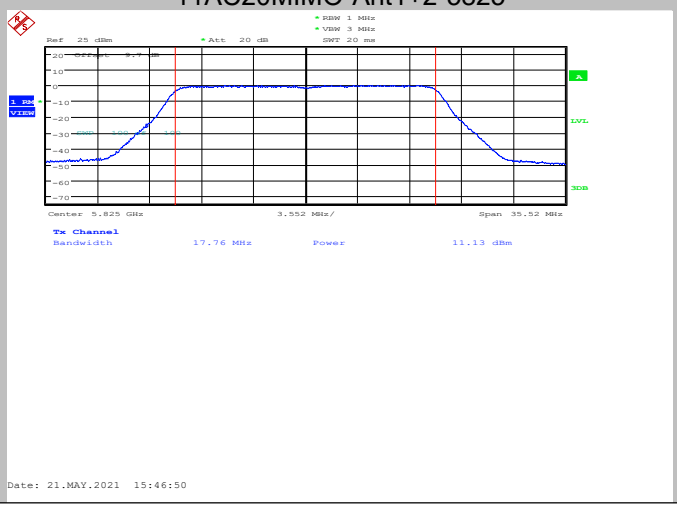

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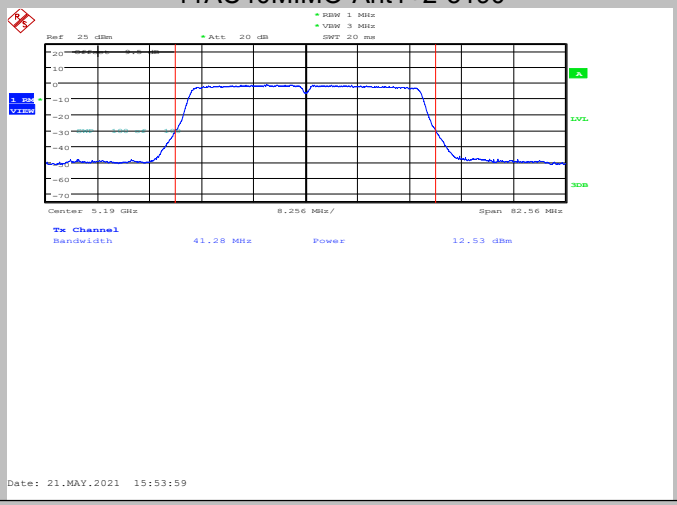

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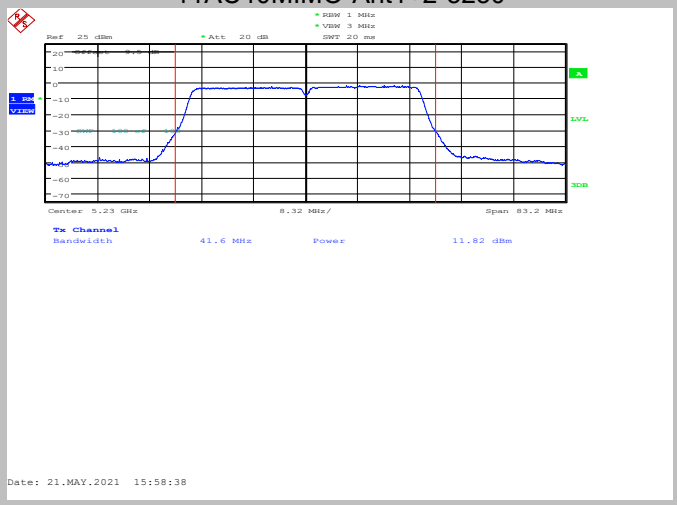

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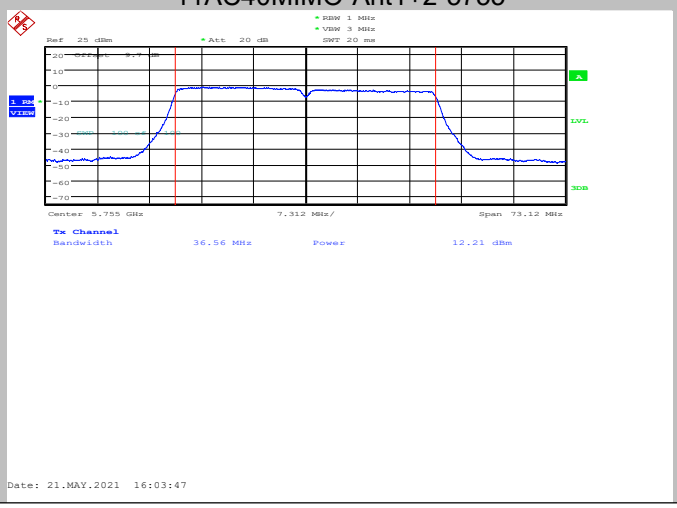

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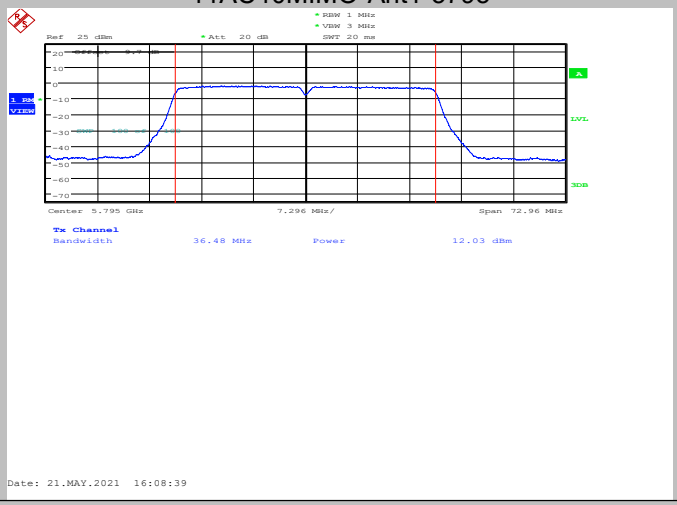

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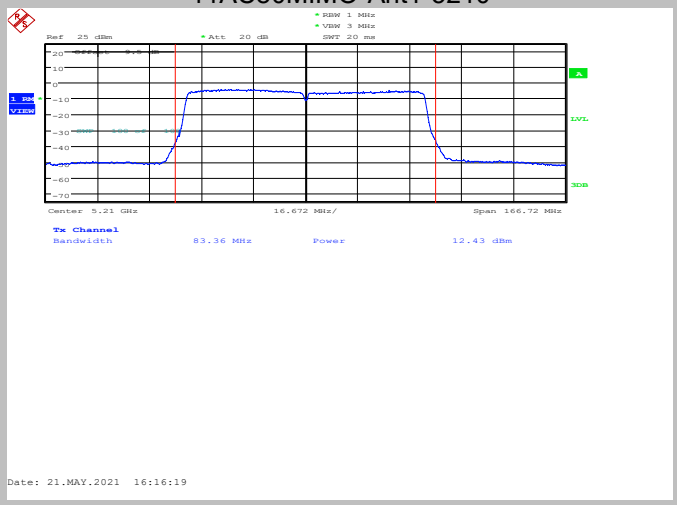

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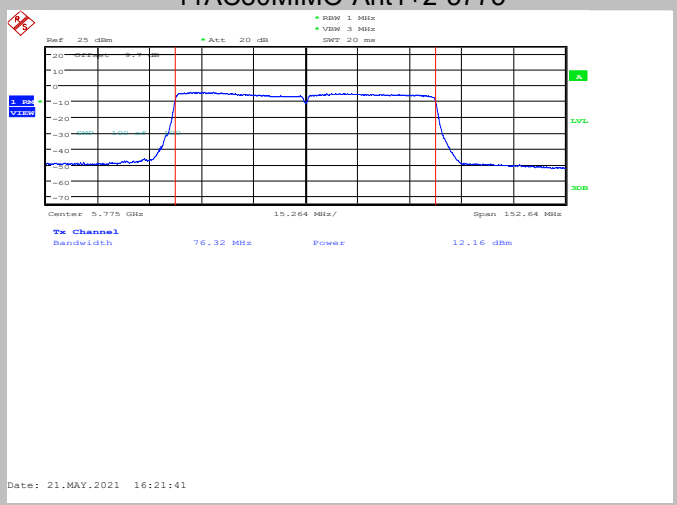


Appendix C): Power Spectral Density

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.69	3.83	11	PASS
11A	Ant2	5180	2.45	4.07	11	PASS
11A	Ant1	5200	2.34	3.49	11	PASS
11A	Ant2	5200	2.45	3.73	11	PASS
11A	Ant1	5240	1.59	2.62	11	PASS
11A	Ant2	5240	1.98	3.12	11	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11A	Ant1	5745	2.93	4.05	30	PASS
11A	Ant2	5745	0.08	1.35	30	PASS
11A	Ant1	5785	1.87	3.01	30	PASS
11A	Ant2	5785	-0.37	0.77	30	PASS
11A	Ant1	5825	1.74	3.42	30	PASS
11A	Ant2	5825	-0.92	0.19	30	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11N20SISO	Ant1	5180	-6.51	-5.11	11	PASS
11N20SISO	Ant2	5180	2.56	3.85	11	PASS
11N20SISO	Ant1	5200	-5.74	-4.42	11	PASS
11N20SISO	Ant2	5200	1.98	3.38	11	PASS
11N20SISO	Ant1	5240	-2.12	-0.72	11	PASS
11N20SISO	Ant2	5240	1.85	2.98	11	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11N20SISO	Ant1	5745	-2.89	-1.66	30	PASS
11N20SISO	Ant2	5745	0.28	1.91	30	PASS
11N20SISO	Ant1	5785	-3.67	-2.27	30	PASS
11N20SISO	Ant2	5785	-0.94	0.48	30	PASS
11N20SISO	Ant1	5825	-3.17	-1.81	30	PASS
11N20SISO	Ant2	5825	-1.18	0.42	30	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	limit[dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	-8.60	-7.81	11	PASS
11AC20SISO	Ant2	5180	1.72	2.49	11	PASS
11AC20SISO	Ant1	5200	-9.22	-8.44	11	PASS
11AC20SISO	Ant2	5200	1.97	2.74	11	PASS
11AC20SISO	Ant1	5240	-8.54	-7.81	11	PASS
11AC20SISO	Ant2	5240	1.36	2.13	11	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC20SISO	Ant1	5745	-8.05	-7.29	30	PASS
11AC20SISO	Ant2	5745	-1.33	-0.55	30	PASS
11AC20SISO	Ant1	5785	-8.30	-7.59	30	PASS
11AC20SISO	Ant2	5785	-1.33	-0.55	30	PASS
11AC20SISO	Ant1	5825	-8.86	-8.08	30	PASS
11AC20SISO	Ant2	5825	-1.33	-0.55	30	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11AC40SISO	Ant1	5190	-11.66	-10.25	11	PASS
11AC40SISO	Ant2	5190	-1.42	0.09	11	PASS
11AC40SISO	Ant1	5230	-12.10	-10.77	11	PASS
11AC40SISO	Ant2	5230	-1.61	-0.10	11	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC40SISO	Ant1	5755	-9.51	-8.04	30	PASS
11AC40SISO	Ant2	5755	-2.63	-1.14	30	PASS
11AC40SISO	Ant1	5795	-10.37	-9.02	30	PASS
11AC40SISO	Ant2	5795	-3.43	-2.05	30	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11AC80SISO	Ant1	5210	-14.06	-11.56	11	PASS
11AC80SISO	Ant2	5210	-3.81	-1.31	11	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC80SISO	Ant1	5775	-12.60	-10.25	30	PASS
11AC80SISO	Ant2	5775	-5.64	-3.12	30	PASS

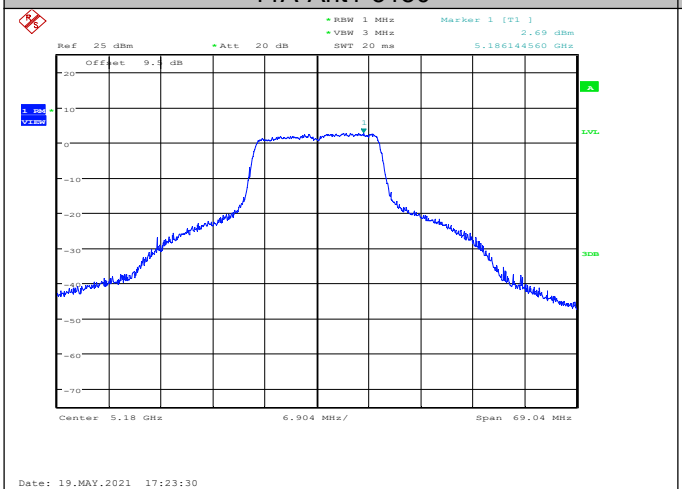
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	limit[dBm/MHz]	Verdict
11N20MIMO	Ant 1+2	5180	2.48	3.88	10.99	PASS
11N20MIMO	Ant 1+2	5200	1.95	3.36	10.99	PASS
11N20MIMO	Ant 1+2	5240	1.80	3.09	10.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11N20MIMO	Ant 1+2	5745	0.31	1.59	29.99	PASS
11N20MIMO	Ant 1+2	5785	-0.87	0.55	29.99	PASS
11N20MIMO	Ant 1+2	5825	-0.91	0.49	29.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11AC20MIMO	Ant 1+2	5180	1.95	2.74	10.99	PASS
11AC20MIMO	Ant 1+2	5200	2.59	3.36	10.99	PASS
11AC20MIMO	Ant 1+2	5240	1.19	1.97	10.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC20MIMO	Ant 1+2	5745	-0.34	0.34	29.99	PASS
11AC20MIMO	Ant 1+2	5785	-1.47	-0.69	29.99	PASS
11AC20MIMO	Ant 1+2	5825	-1.40	-0.62	29.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11AC40MIMO	Ant 1+2	5190	-0.86	0.47	10.99	PASS
11AC40MIMO	Ant 1+2	5230	-1.91	-0.58	10.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC40MIMO	Ant 1+2	5755	-2.59	-1.10	29.99	PASS
11AC40MIMO	Ant 1+2	5795	-3.45	-1.94	29.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/MHz]**	**limit[dBm/MHz]**	**Verdict**
11AC80MIMO	Ant 1+2	5210	-4.09	-1.86	10.99	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm]**	**PSD [dBm/500kHz]**	**Limit [dBm/500kHz]**	**Verdict**
11AC80MIMO	Ant 1+2	5775	-5.87	-3.37	29.99	PASS

Remark:

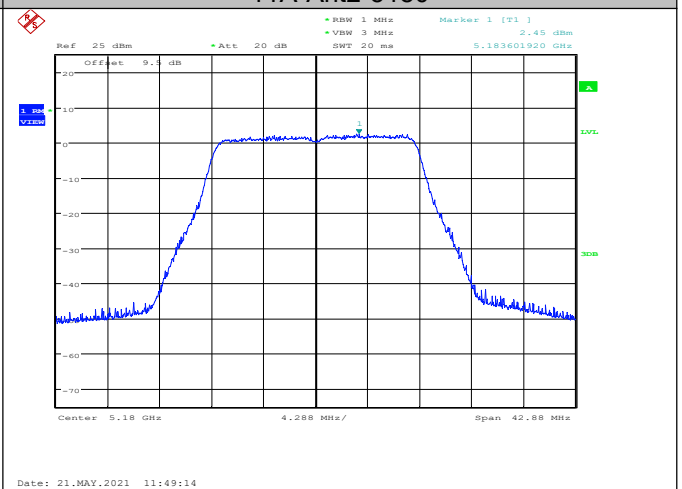
PSD = Meas PSD + Duty Cycle Factor

Test Graph

11A-Ant1-5180



11A-Ant2-5180



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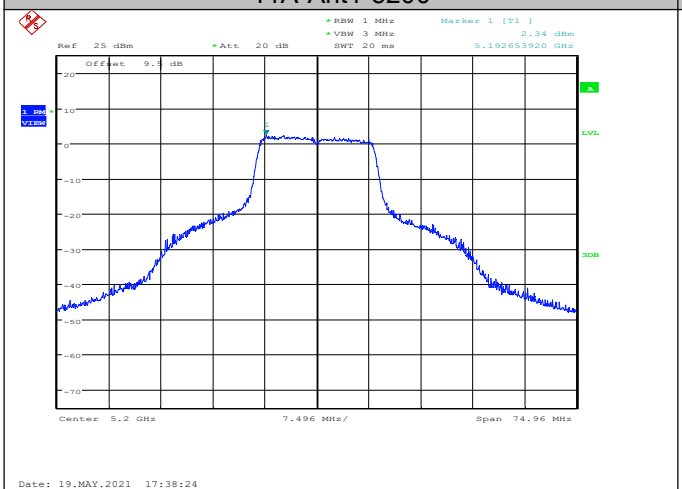

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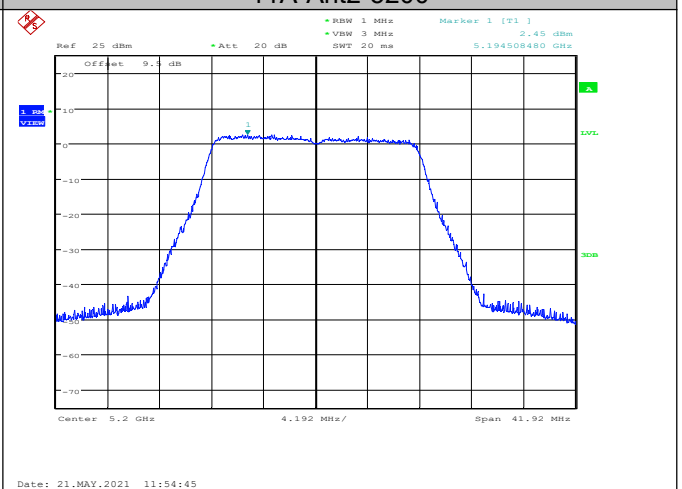

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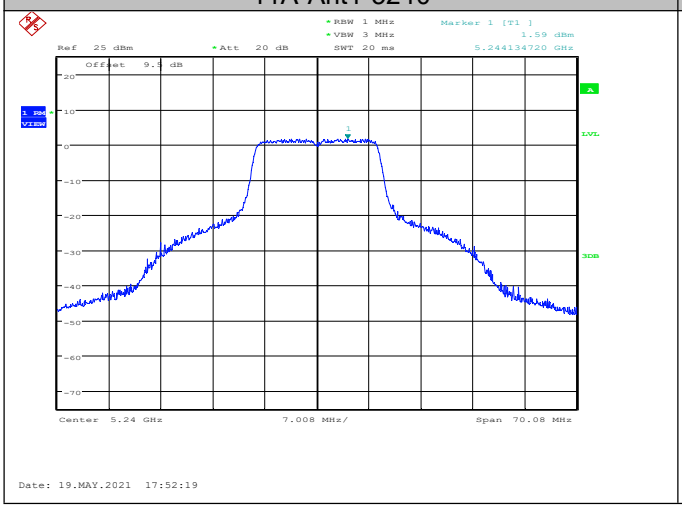

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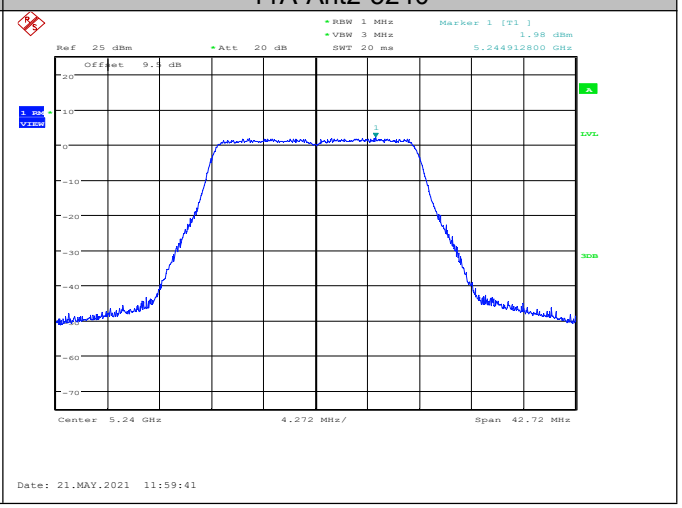

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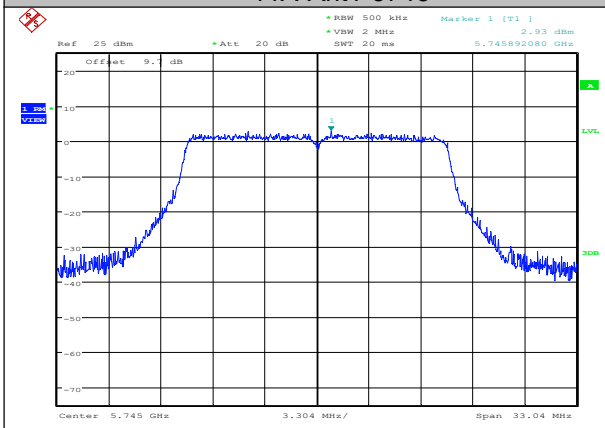

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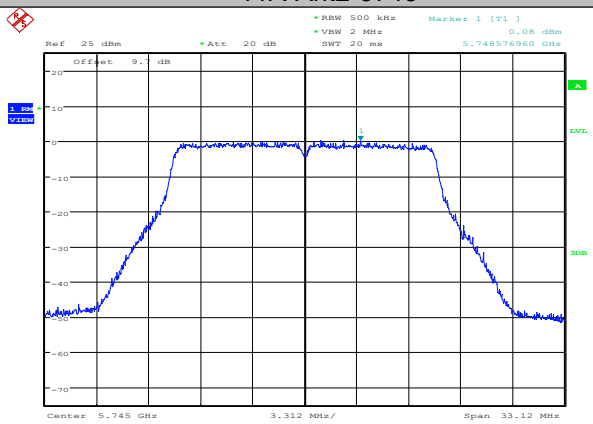

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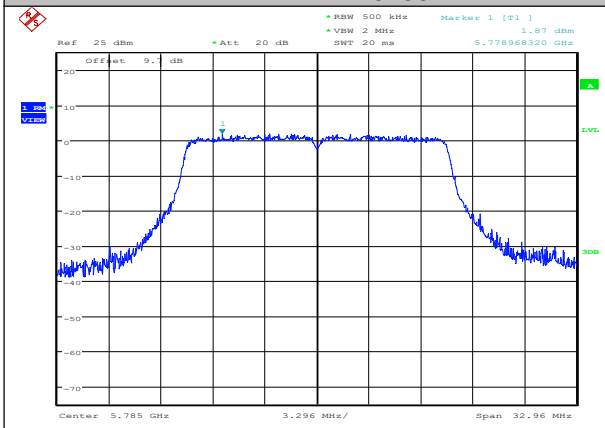

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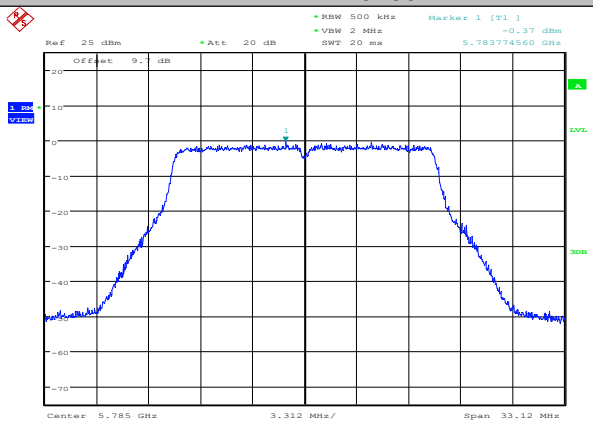
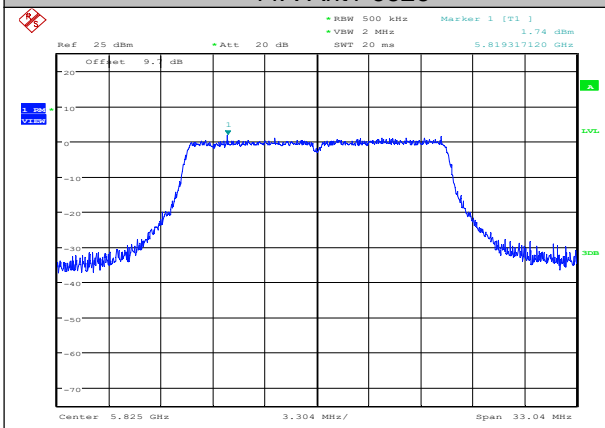
11A-Ant2-5785



Date: 21.MAY.2021 12:08:49

11A-Ant1-5825



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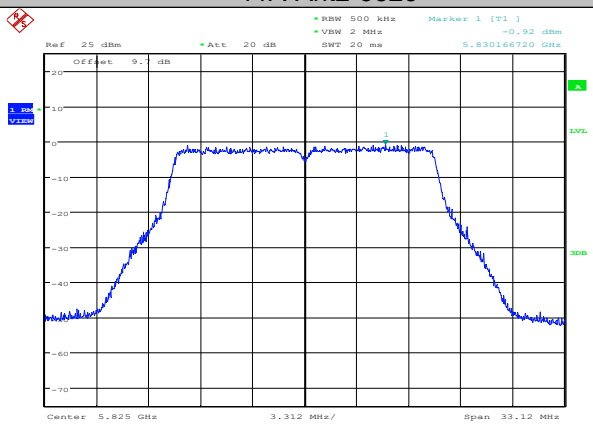
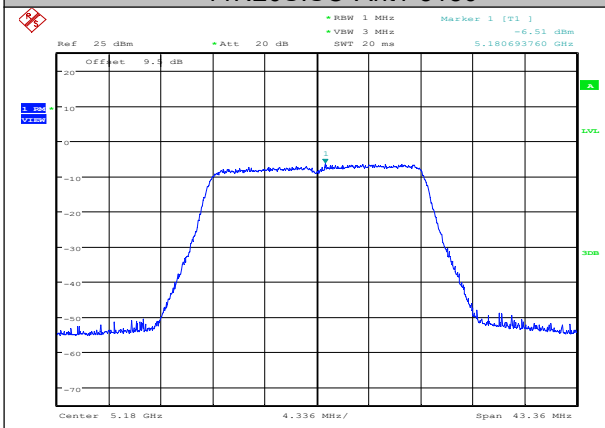
11A-Ant2-5825



Date: 21.MAY.2021 12:12:55

11N20SISO-Ant1-5180



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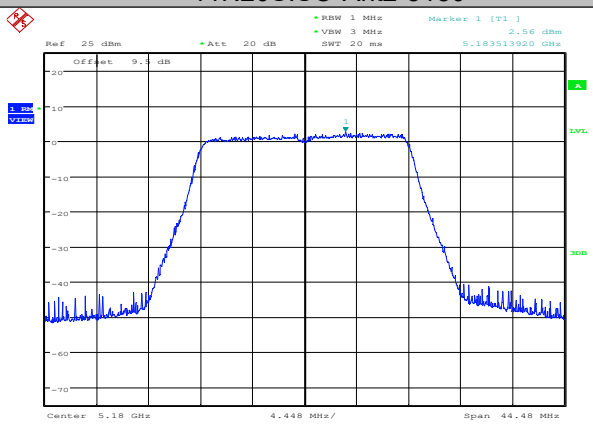
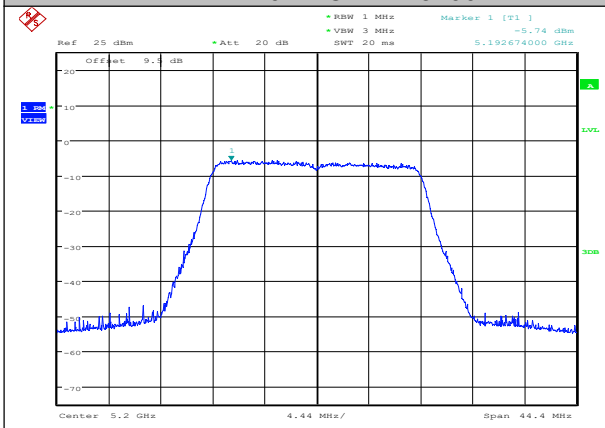


Date: 21.MAY.2021 12:18:56

11N20SISO-Ant1-5200



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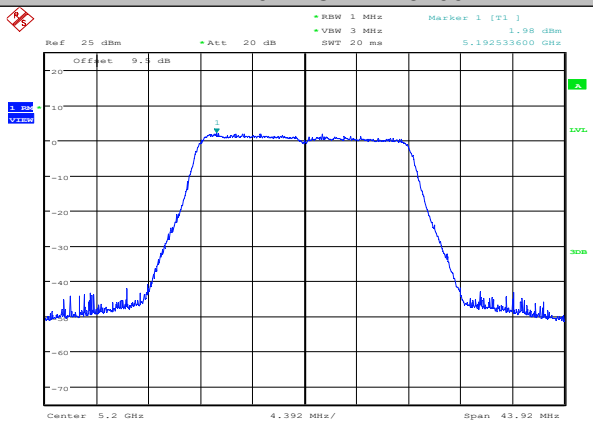

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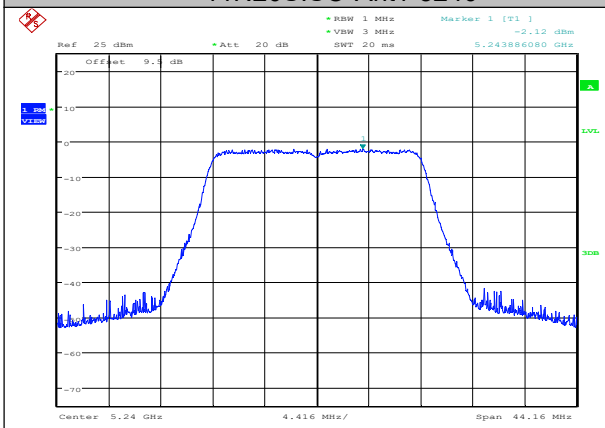
11N20SISO-Ant1-5240



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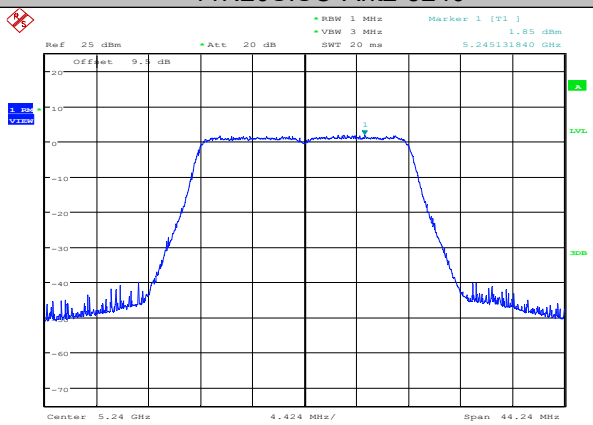

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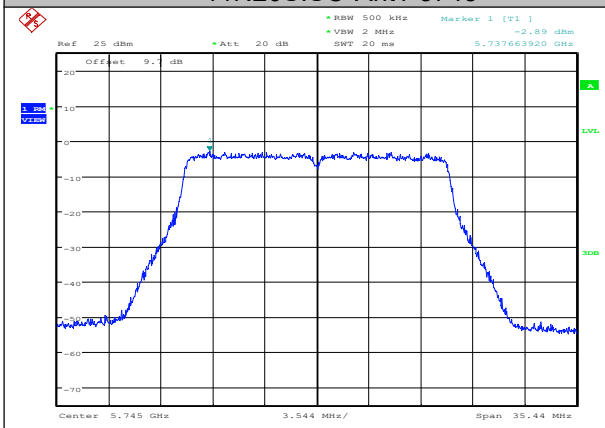

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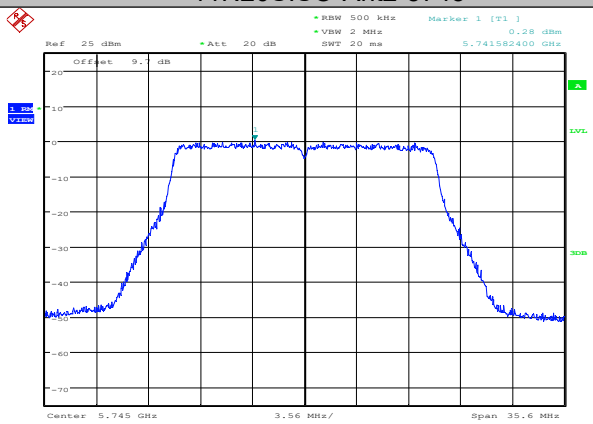

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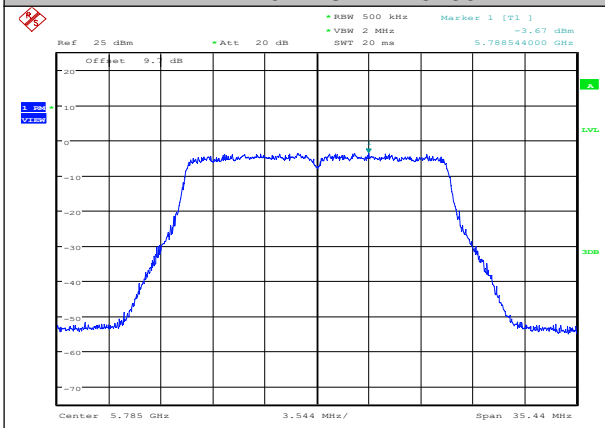

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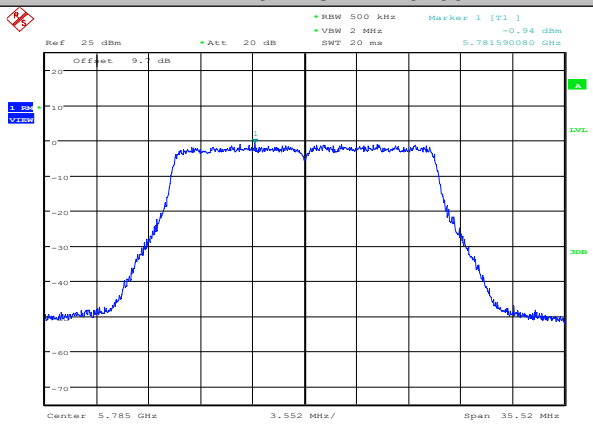
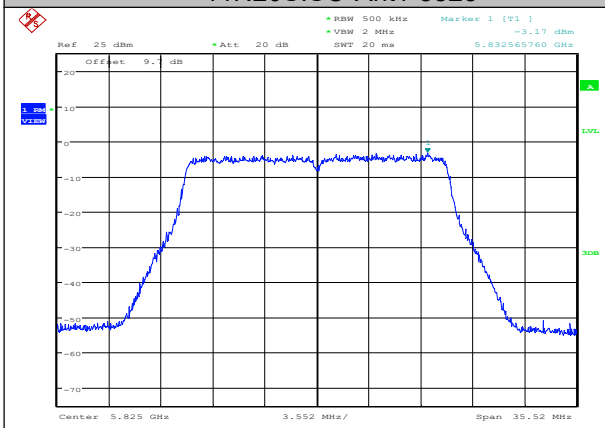


Date: 21.MAY.2021 12:39:59

11N20SISO-Ant1-5825



Date: 20.MAY.2021 09:13:48

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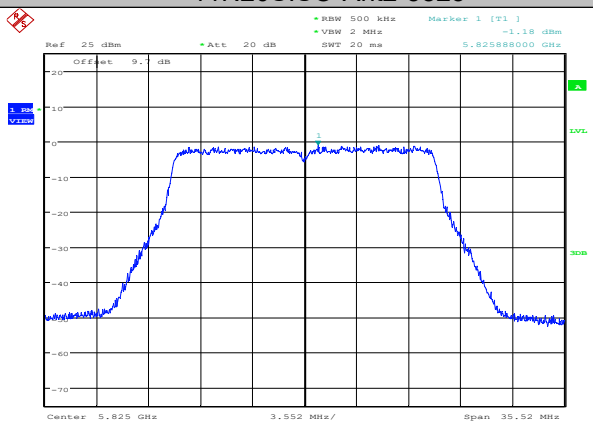

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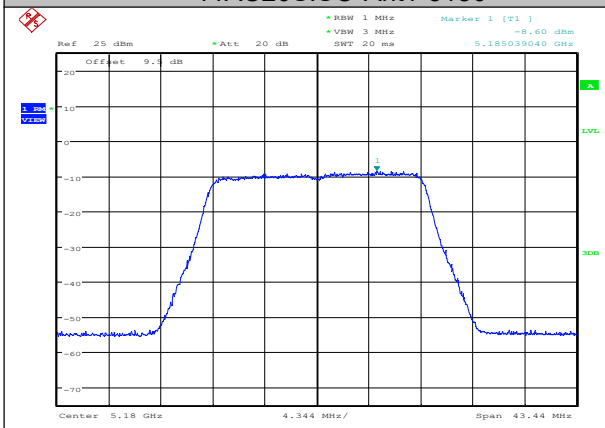
11AC20SISO-Ant1-5180



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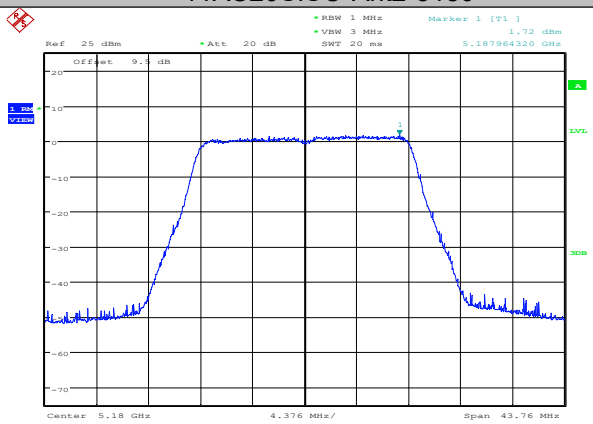

Date: 21.MAY.2021 13:12:51

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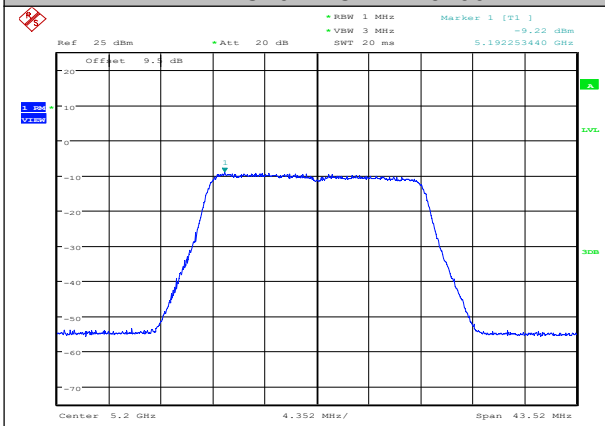

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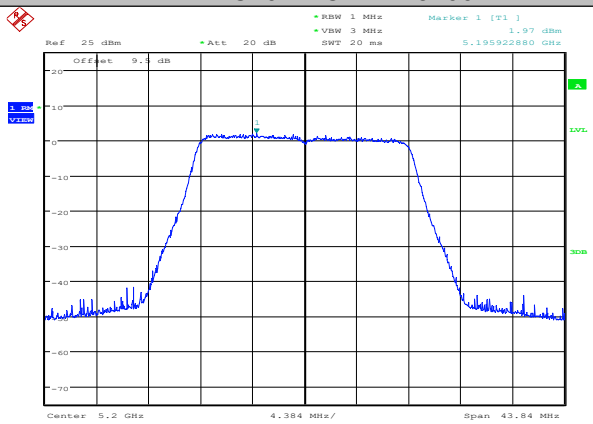

Date: 21.MAY.2021 13:18:14

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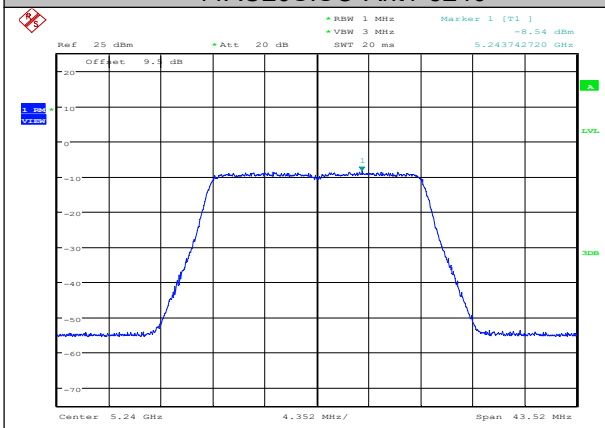

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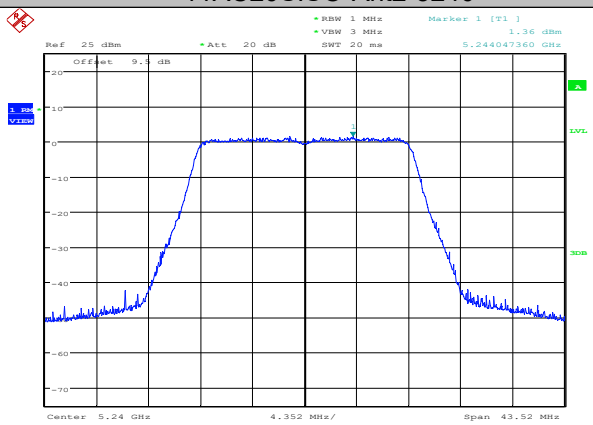

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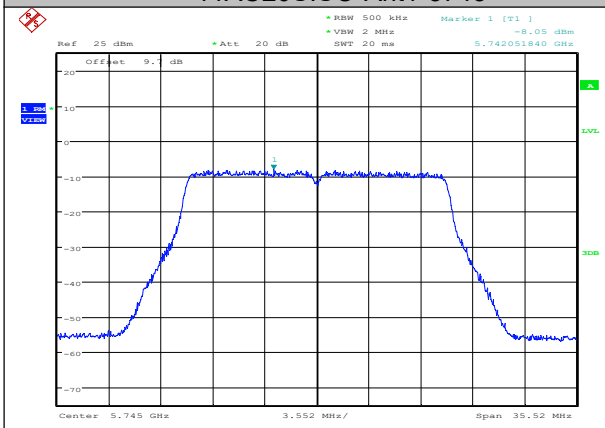

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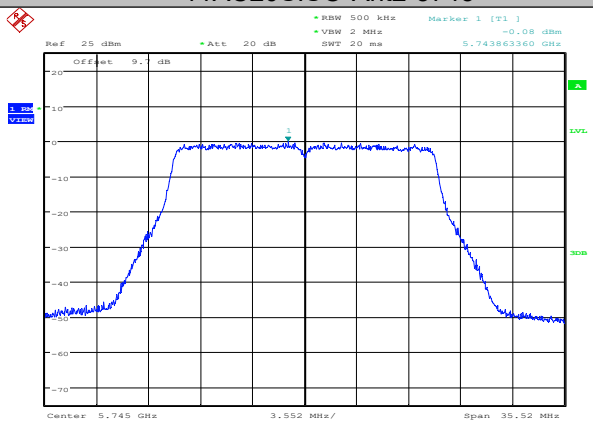

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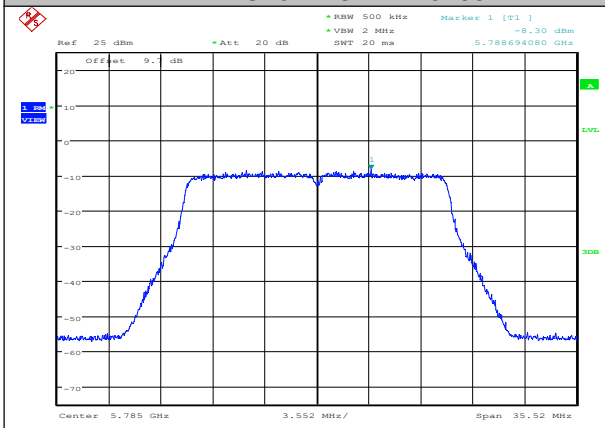

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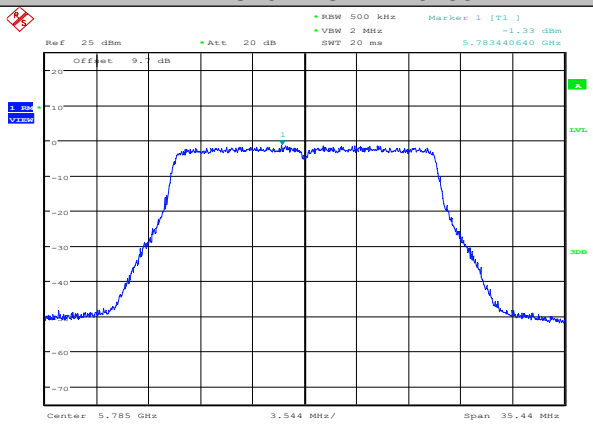

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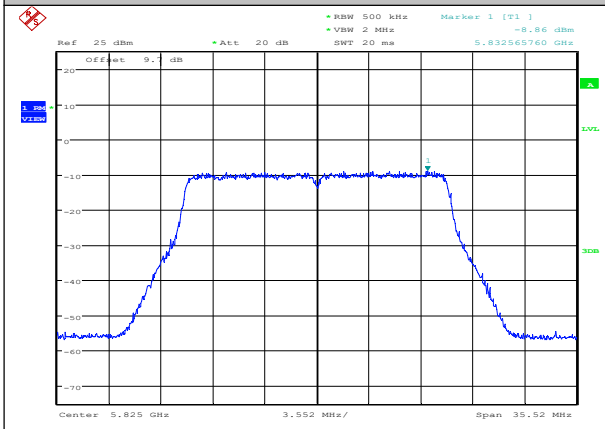
11AC20SISO-Ant1-5825



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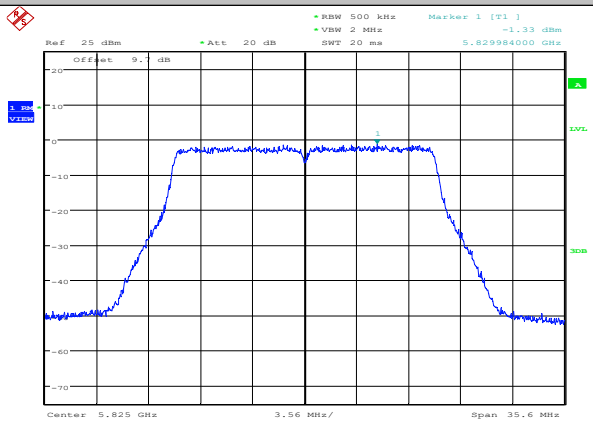

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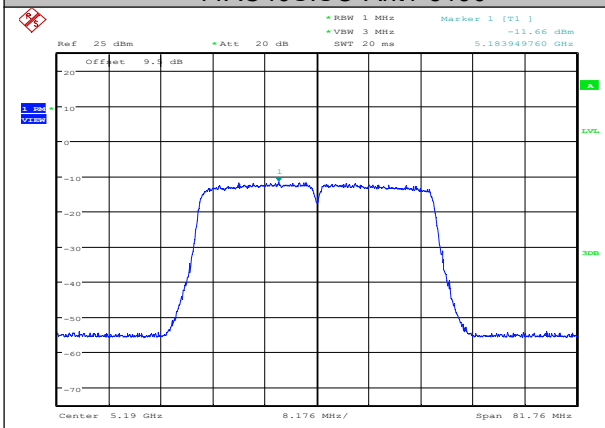
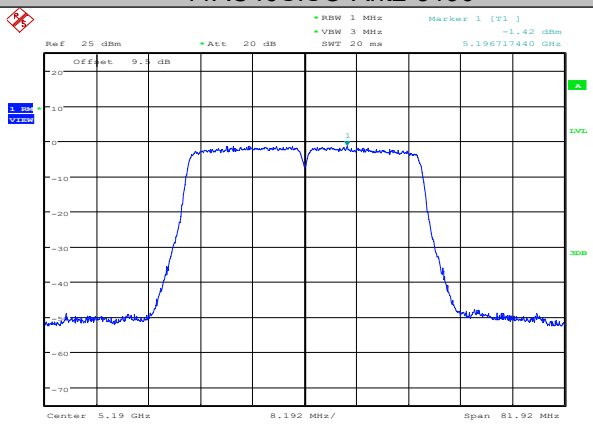
11AC40SISO-Ant1-5190



Date: 20.MAY.2021 11:59:20

11AC40SISO-Ant2-5190



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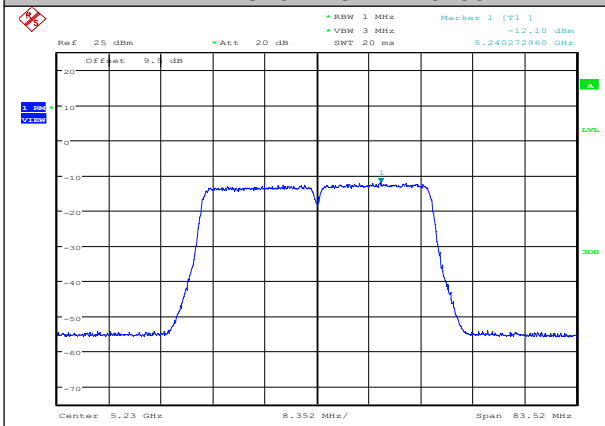

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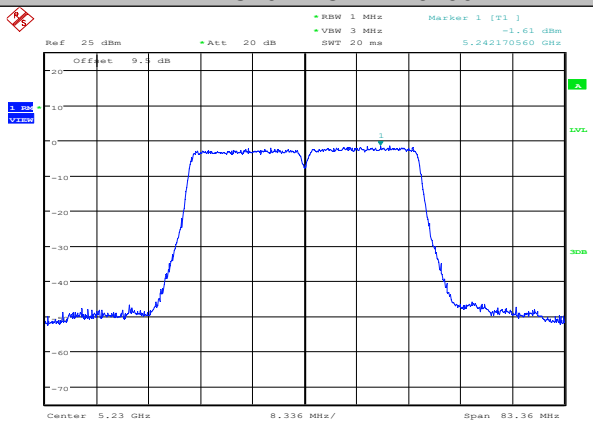

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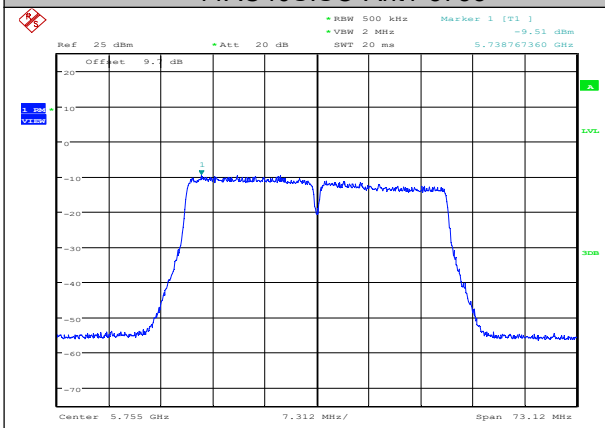

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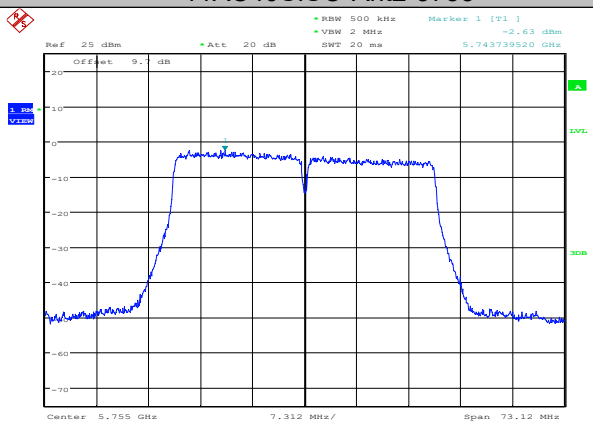
11AC40SISO-Ant2-5755



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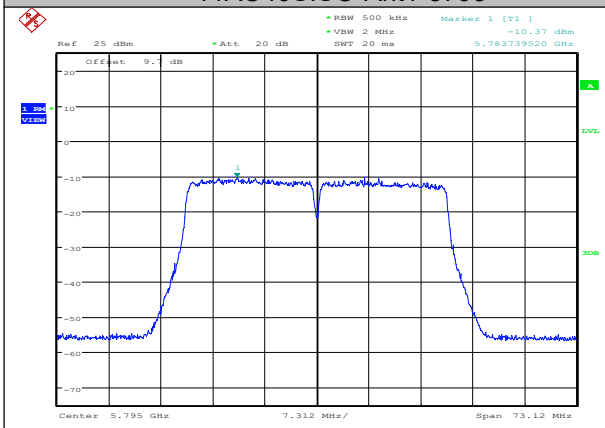

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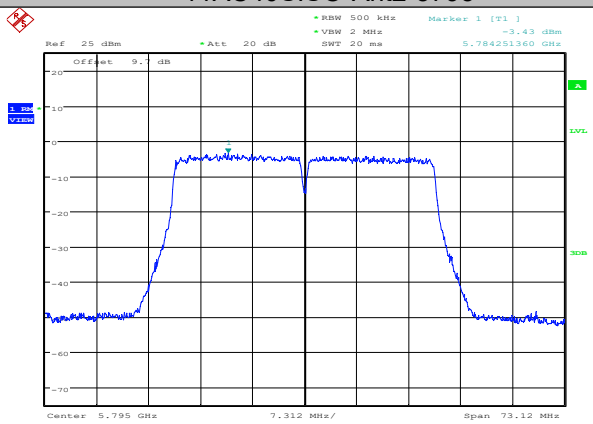
11AC40SISO-Ant2-5795



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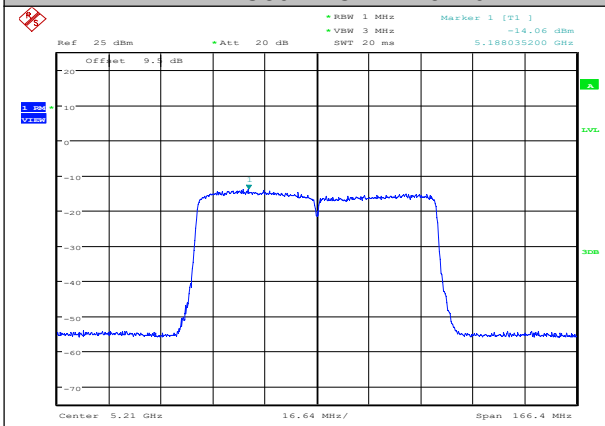

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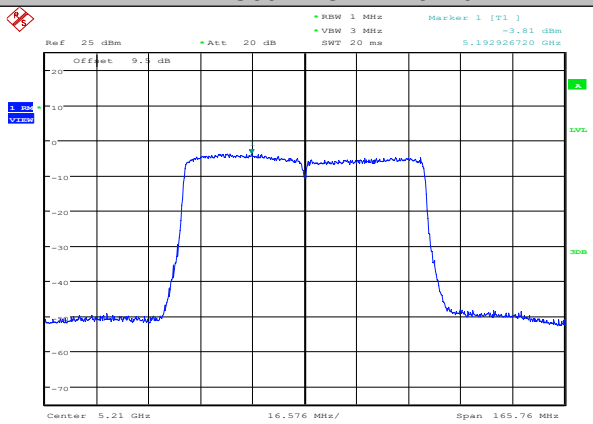
11AC80SISO-Ant2-5210



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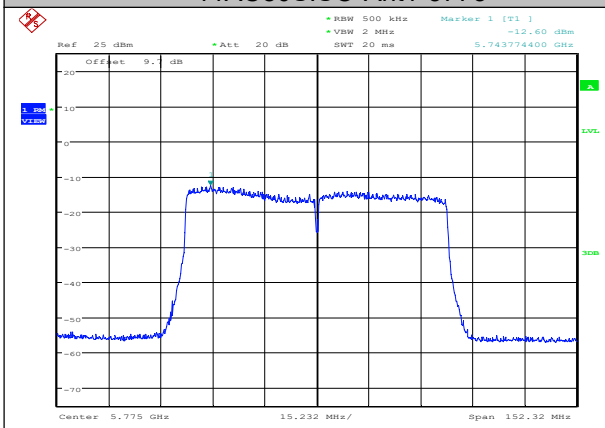
11AC80SISO-Ant1-5775



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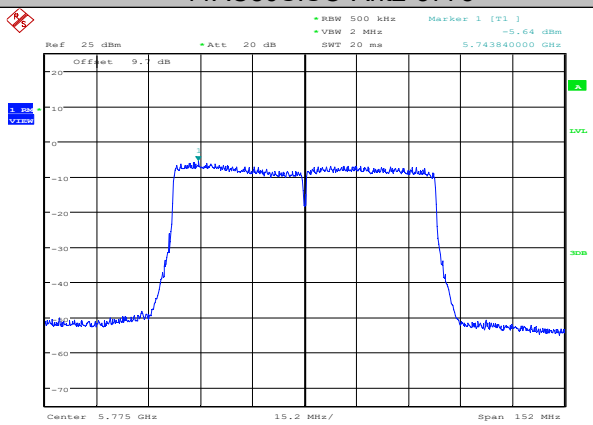
11AC80SISO-Ant2-5775



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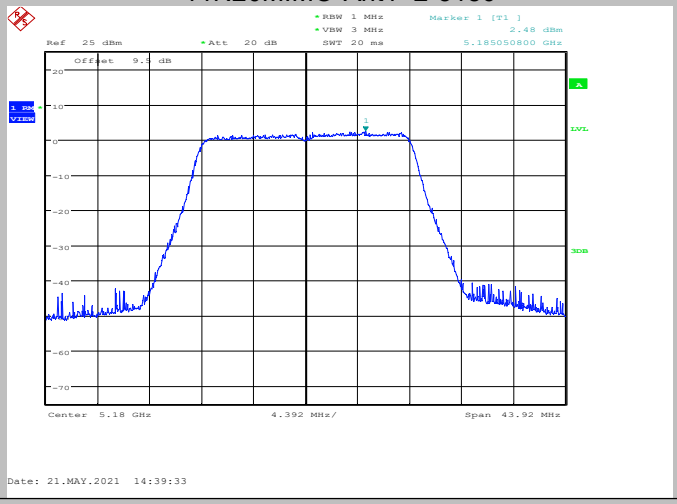
11N20MIMO-Ant1+2-5180



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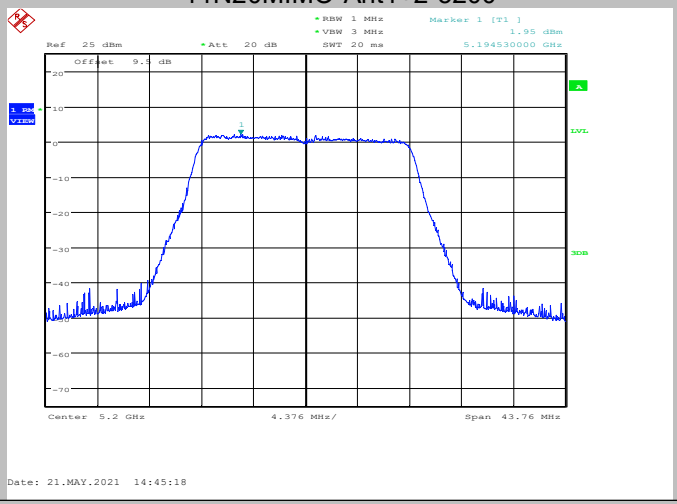
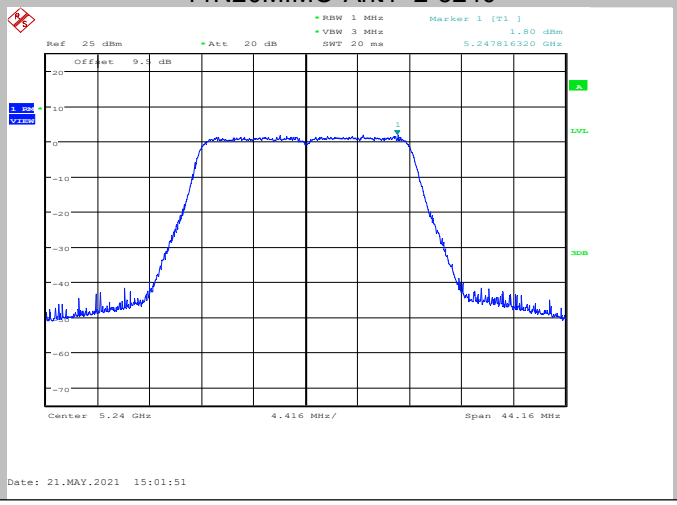
11N20MIMO-Ant1+2-5240