

FCC- TEST REPORT

Report Number : **68.950.22.0172.01** Date of Issue: 2022-03-16

Model : **STMD1**

Product Type : WiFi/BT Module

Applicant : GoPro, Inc.

Address : 3025 Clearview Way, San Mateo, CA 94402, USA

Manufacturer : GoPro, Inc.

Address : 3025 Clearview Way, San Mateo, CA 94402, USA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **191**

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

FCC Designation Number: CN5009

FCC Registration No.: 514049

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

3 Description of the Equipment Under Test

Product:	WiFi/BT Module
Model no.:	STMD1
FCC ID:	CNFSTMD1
Rating:	3.6VDC
RF Transmission Frequency:	5.180GHz~5.240GHz; 5.260GHz~5.320GHz; 5.500GHz~5.720GHz; 5.745GHz~5.825GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type:	PIFA
Antenna Ports	Ant 1
Antenna Gain:	4.58dBi max for 5.180GHz~5.240GHz; 4.37dBi max for 5.260GHz~5.320GHz; 3.68dBi max for 5.500GHz~5.720GHz; 3.50dBi max for 5.745GHz~5.825GHz
Description of the EUT:	The Equipment Under Test (EUT) is a Wi-Fi/BT Module supports 2.4GHz Bluetooth/WIFI, 5GHz WIFI functions.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, October 1, 2020 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart E			
Test Condition	Test Result		
	Pass	Fail	N/A
15.207 Conducted Emission AC Power Port	☒	☐	☐
15.407(e) Emission bandwidth	☒	☐	☐
15.407(a) Maximum Conducted Output Power	☒	☐	☐
15.407(a) Maximum Power Spectral Density	☒	☐	☐
15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4), 15.407(b)(8), 15.407(b)(9), 15.209 Unwanted Emissions	☒	☐	☐
15.407(g) Frequencies Stability	☒	☐	☐
15.407(h) Dynamic Frequency Selection (DFS).	☒	☐	☐
15.203 Antenna Requirement	☒ See note 1	☐	☐

Remark: The EUT operate as Clients Device without Radar Detection.

Note 1: The EUT uses a PIFA antenna, which gain is 4.58dBi max for 5.180GHz~5.240GHz; 4.37dBi max for 5.260GHz~5.320GHz; 3.68dBi max for 5.500GHz~5.720GHz; 3.50dBi max for 5.745GHz~5.825GHz. It is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: CNFSTMD1, complies with Section 15.203, 15.205, 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E.

The Model: STMD1 supports Bluetooth Low Energy/Bluetooth BR+EDR /WIFI functions

The TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHzWIFI, 5180MHz – 5320MHz, 5500MHz – 5720MHz, 5745MHz – 5825MHz for 5GHzWIFI.

This report is for the 5GHz Wi-Fi.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2022-02-10

Testing Start Date: 2022-02-10

Testing End Date: 2022-03-08

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by:

Prepared by:

Tested by:



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Project Manager



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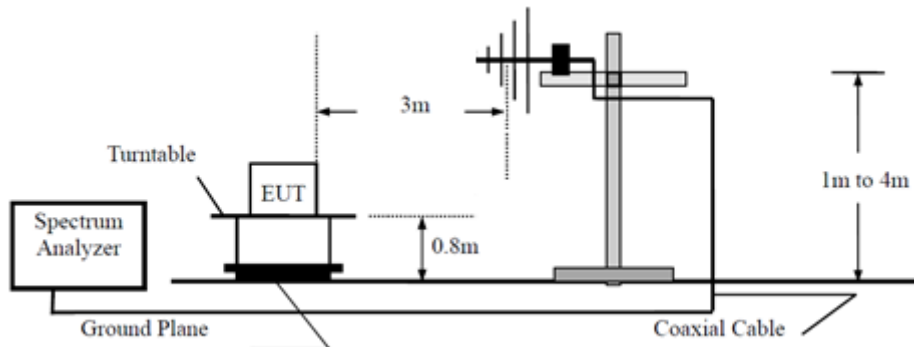


Carry Cai
Test Engineer

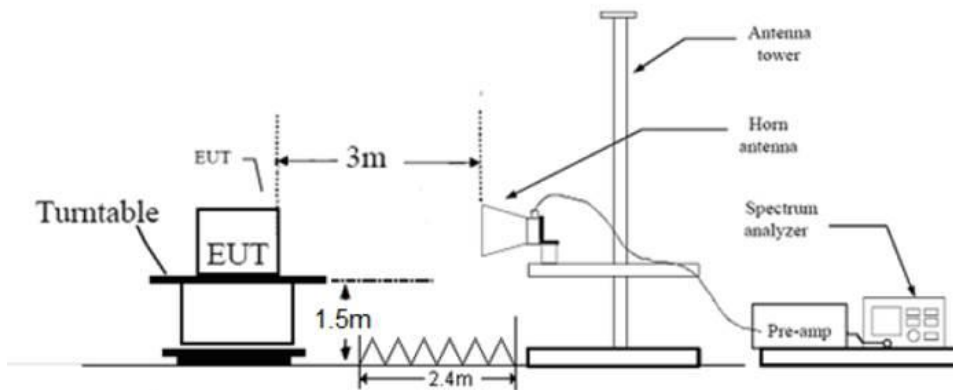
7 Test setups

7.1 Radiated test setups

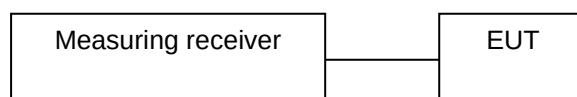
Below 1GHz



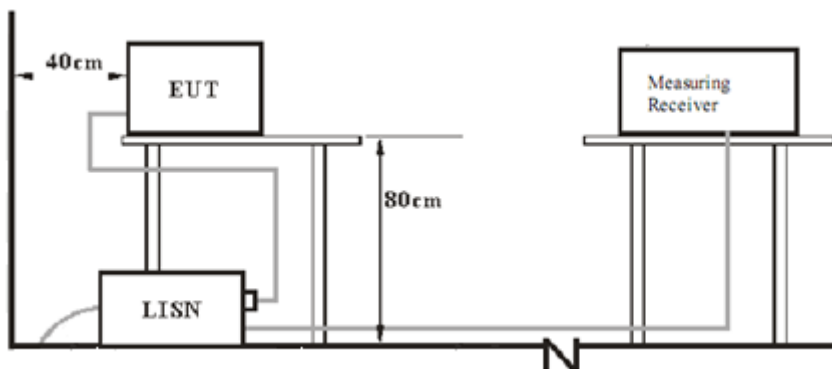
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



8. Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model no.	Serial no.
NOTEBOOK	LENOVO	X220	---

The system was configured to channel:

Test Mode	Channel (MHz)		
802.11a, 802.11n HT20 802.11ac VHT20	5G WIFI-Band 1		
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)
	5G WIFI-Band 2		
	CH52 (5260MHz)	CH56 (5280MHz)	CH64 (5320MHz)
	5G WIFI-Band 3		
	CH100 (5500MHz)	CH116 (5580MHz)	CH140 (5700MHz)
	CH144 (5720MHz)		
	5G WIFI-Band 4		
CH149 (5745MHz)	CH157(5785MHz)	CH165 (5825MHz)	

Test Mode	Channel (MHz)		
802.11n HT40 802.11ac VHT40	5G WIFI-Band 1		
	CH38(5190MHz)	CH46 (5230MHz)	
	5G WIFI-Band 2		
	CH54(5270MHz)	CH62(5310MHz)	
	5G WIFI-Band 3		
	CH102(5510MHz)	CH110(5550MHz)	CH134(5670MHz)
	CH 142 (5710MHz)		
	5G WIFI-Band 4		
	CH151(5755MHz)	CH159(5795MHz)	

Test Mode	Channel (MHz)	
802.11ac VHT80	5G WIFI-Band 1	
	CH42(5210MHz)	
	5G WIFI-Band 2	
	CH58(5290MHz)	
	5G WIFI-Band 3	
	CH106(5530MHz)	CH138(5690MHz)
	5G WIFI-Band 4	
	CH155(5775MHz)	

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively

Limit

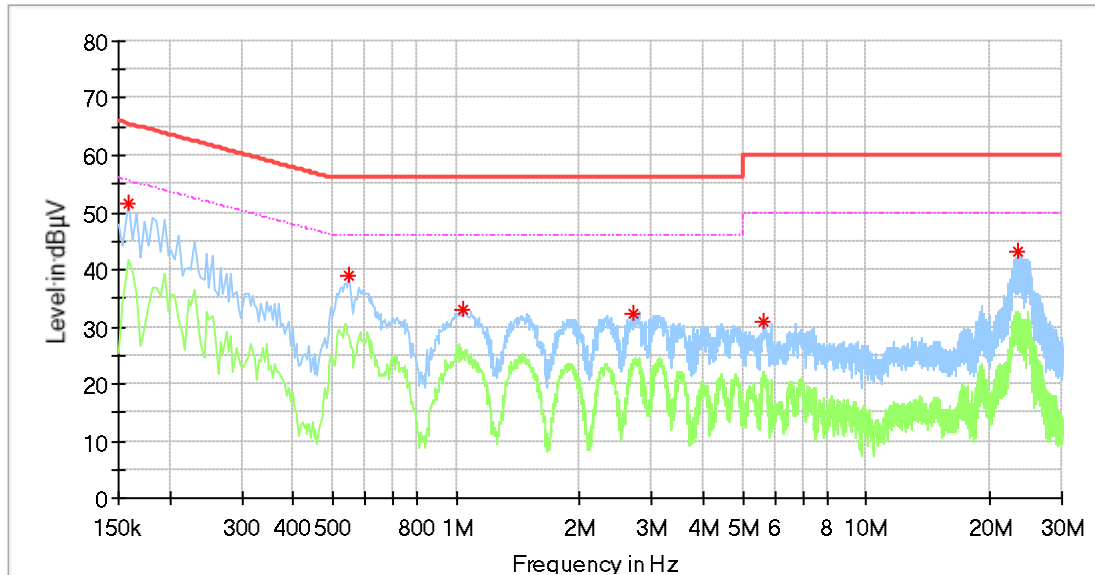
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : WiFi/BT Module
 M/N : STMD1
 Operating Condition : Charging + TX
 Test Specification : Power Line, Live
 Comment : AC 120V/60Hz (Notebook)



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158000	51.45	---	65.57	14.12	L1	9.74
0.546000	39.06	---	56.00	16.94	L1	9.65
1.042000	33.06	---	56.00	22.94	L1	9.66
2.694000	32.41	---	56.00	23.59	L1	9.72
5.642000	30.84	---	60.00	29.16	L1	9.85
23.454000	43.20	---	60.00	16.80	L1	10.42

Remark :

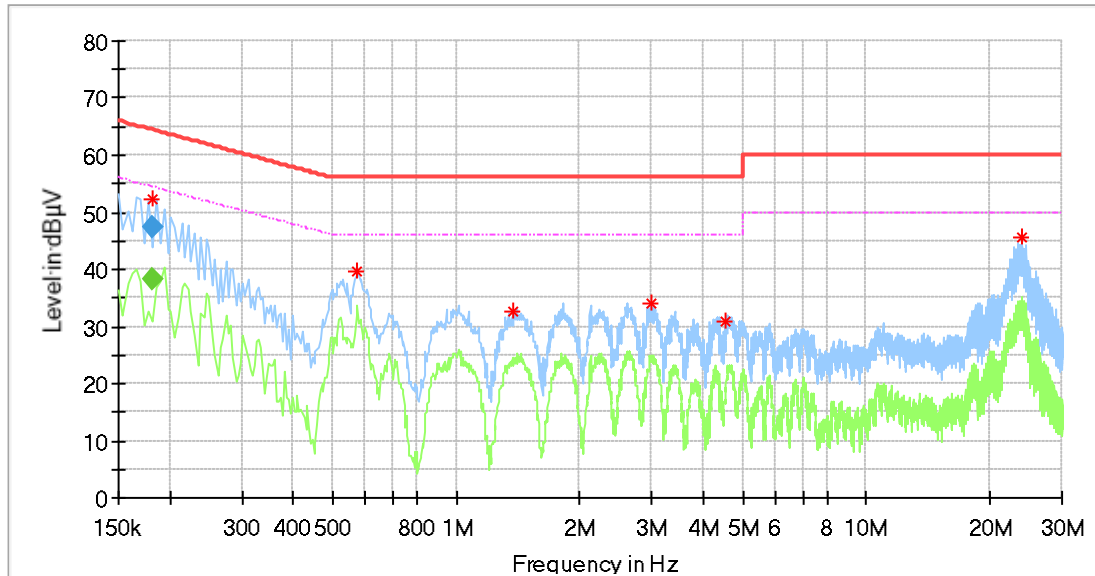
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : WiFi/BT Module
 M/N : STMD1
 Operating Condition : Charging + TX
 Test Specification : Power Line, Neutral
 Comment : AC 120V/60Hz (Notebook)



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.181500	52.28	---	64.21	11.93	N	9.75
0.574000	39.56	---	56.00	16.44	N	9.68
1.382000	32.73	---	56.00	23.27	N	9.71
2.974000	34.12	---	56.00	21.88	N	9.77
4.542000	30.73	---	56.00	25.27	N	9.85
23.966000	45.57	---	60.00	14.43	N	10.79

Remark :

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Emission bandwidth

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

1、 Test Method of 26dB Bandwidth

According to C63.10

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、 Test Method of 6dB Bandwidth

According to C63.10

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: $\geq 500\text{KHz}$

3、 Test Method of 99% Bandwidth

According to C63.10

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

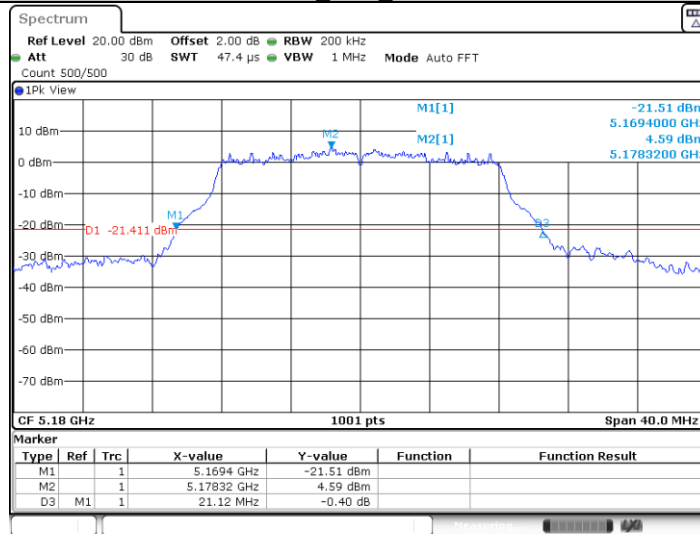
Limit: No limit

26dB Bandwidth Test result:

TestMode	Antenna	Channel [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.120	5169.400	5190.520	---	PASS
		5200	21.160	5189.360	5210.520	---	PASS
		5240	21.120	5229.360	5250.480	---	PASS
		5260	21.200	5249.280	5270.480	---	PASS
		5280	21.200	5269.320	5290.520	---	PASS
		5320	21.160	5309.360	5330.520	---	PASS
		5500	21.160	5489.360	5510.520	---	PASS
		5580	21.240	5569.320	5590.560	---	PASS
		5700	21.200	5689.320	5710.520	---	PASS
		5720	21.160	5709.360	5730.520	---	PASS
		5720 UNII-2C	15.64	5709.360	5725	---	PASS
		5720 UNII-3	5.52	5725	5730.520	---	PASS
		5745	21.160	5734.320	5755.480	---	PASS
		5785	21.280	5774.280	5795.560	---	PASS
		5825	21.080	5814.280	5835.360	---	PASS
11N20SISO	Ant1	5180	21.720	5169.160	5190.880	---	PASS
		5200	21.760	5189.200	5210.960	---	PASS
		5240	21.600	5229.200	5250.800	---	PASS
		5260	21.600	5249.240	5270.840	---	PASS
		5280	21.720	5269.080	5290.800	---	PASS
		5320	21.480	5309.240	5330.720	---	PASS
		5500	21.520	5489.280	5510.800	---	PASS
		5580	21.360	5569.320	5590.680	---	PASS
		5700	21.480	5689.240	5710.720	---	PASS
		5720	21.480	5709.240	5730.720	---	PASS
		5720 UNII-2C	15.76	5709.240	5725	---	PASS
		5720 UNII-3	5.72	5725	5730.720	---	PASS
		5745	21.520	5734.240	5755.760	---	PASS
		5785	21.600	5774.080	5795.680	---	PASS
		5825	21.480	5814.240	5835.720	---	PASS
11N40SISO	Ant1	5190	48.160	5170.080	5218.240	---	PASS
		5230	48.720	5210.000	5258.720	---	PASS
		5270	48.640	5250.000	5298.640	---	PASS
		5310	47.120	5290.000	5337.120	---	PASS
		5510	40.640	5490.000	5530.640	---	PASS
		5550	40.480	5529.840	5570.320	---	PASS
		5670	40.480	5649.840	5690.320	---	PASS
		5710	40.960	5689.760	5730.720	---	PASS
		5710 UNII-2C	35.24	5689.760	5725	---	PASS
		5710 UNII-3	5.72	5725	5730.720	---	PASS
		5755	47.280	5734.840	5782.120	---	PASS
11AC20SISO	Ant1	5180	21.440	5169.200	5190.640	---	PASS
		5200	21.480	5189.280	5210.760	---	PASS
		5240	21.560	5229.160	5250.720	---	PASS
		5260	21.680	5249.240	5270.920	---	PASS
		5280	21.760	5269.080	5290.840	---	PASS
		5320	21.680	5309.240	5330.920	---	PASS
		5500	21.760	5489.200	5510.960	---	PASS
		5580	21.560	5569.240	5590.800	---	PASS
		5700	21.480	5689.240	5710.720	---	PASS
		5720	21.320	5709.360	5730.680	---	PASS
		5720 UNII-2C	15.64	5709.360	5725	---	PASS
		5720 UNII-3	5.68	5725	5730.680	---	PASS
		5745	21.720	5734.080	5755.800	---	PASS
		5785	21.480	5774.200	5795.680	---	PASS
		5825	21.600	5814.120	5835.720	---	PASS
11AC40SISO	Ant1	5190	40.480	5170.000	5210.480	---	PASS

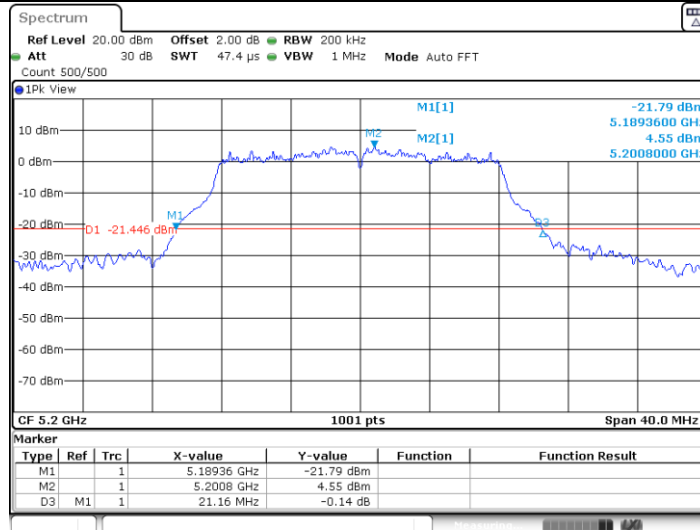
		5230	40.480	5209.920	5250.400	---	PASS
		5270	40.400	5249.920	5290.320	---	PASS
		5310	40.320	5289.920	5330.240	---	PASS
		5510	40.320	5489.920	5530.240	---	PASS
		5550	40.400	5529.840	5570.240	---	PASS
		5670	40.320	5649.840	5690.160	---	PASS
		5710	40.400	5689.840	5730.240	---	PASS
		5710 UNII-2C	35.16	5689.840	5725	---	PASS
		5710 UNII-3	5.24	5725	5730.240	---	PASS
		5755	40.400	5734.760	5775.160	---	PASS
		5795	40.400	5774.840	5815.240	---	PASS
11AC80SISO	Ant1	5210	82.880	5169.200	5252.080	---	PASS
		5290	82.080	5249.040	5331.120	---	PASS
		5530	82.080	5488.880	5570.960	---	PASS
		5610	82.080	5569.040	5651.120	---	PASS
		5690	82.400	5648.720	5731.120	---	PASS
		5690 UNII-2C	76.28	5648.720	5725	---	PASS
		5690 UNII-3	6.12	5725	5731.120	---	PASS
		5775	82.080	5734.040	5816.120	---	PASS

11A Ant1 5180



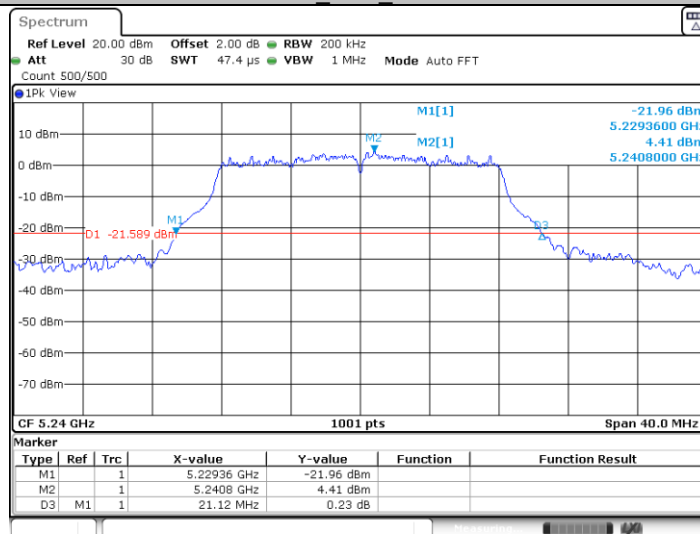
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11A Ant1 5200



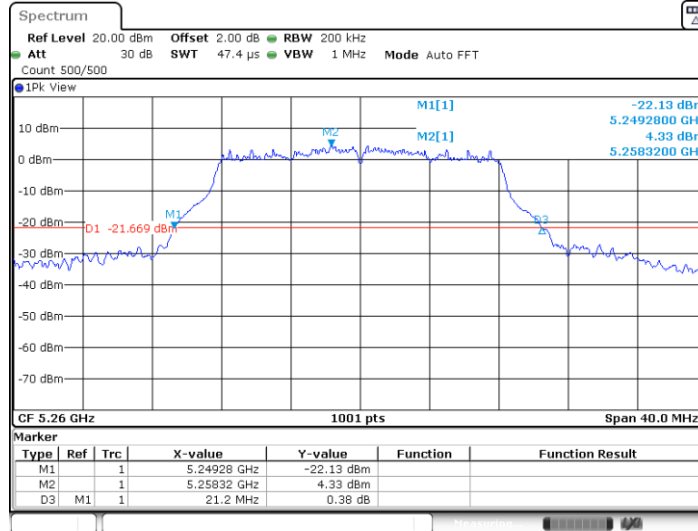
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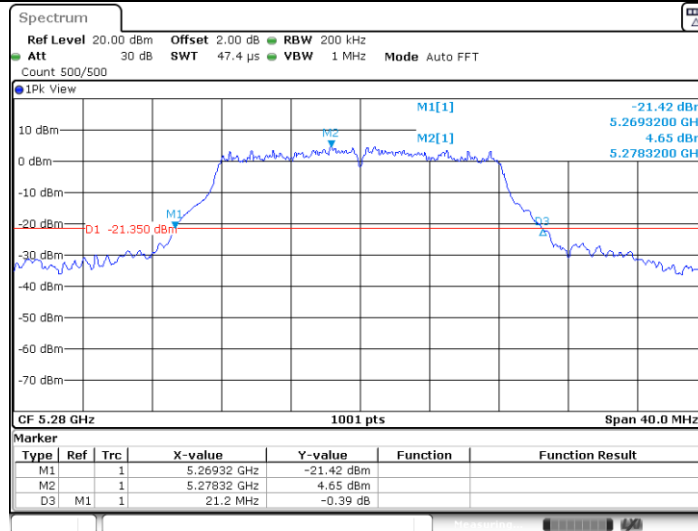
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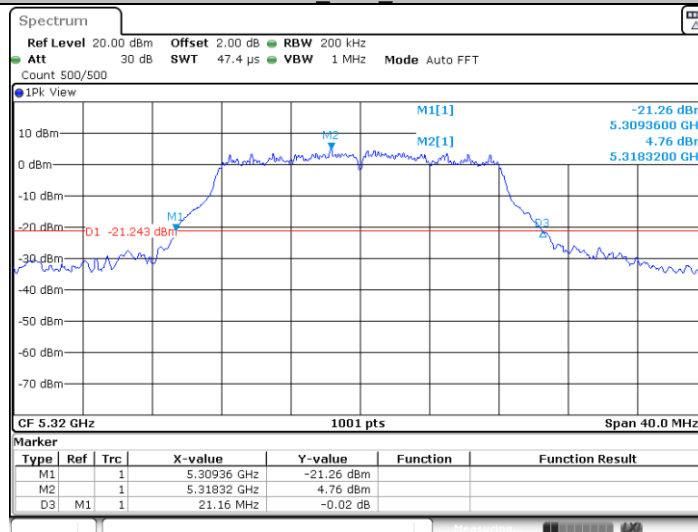
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11A Ant1 5280



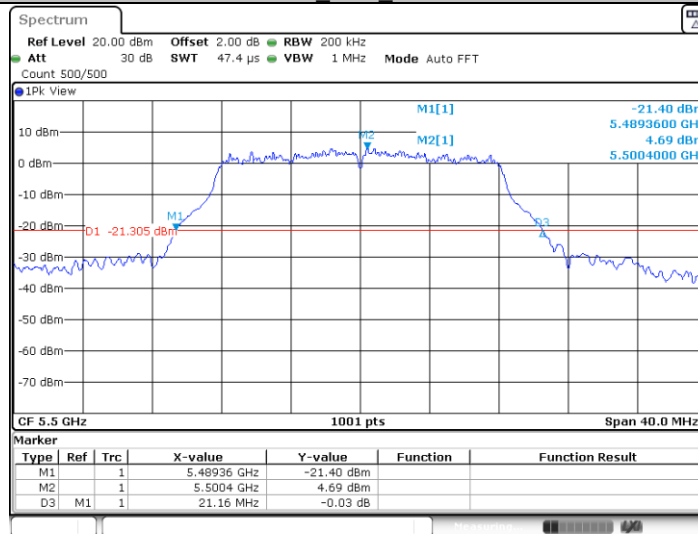
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11A Ant1 5320



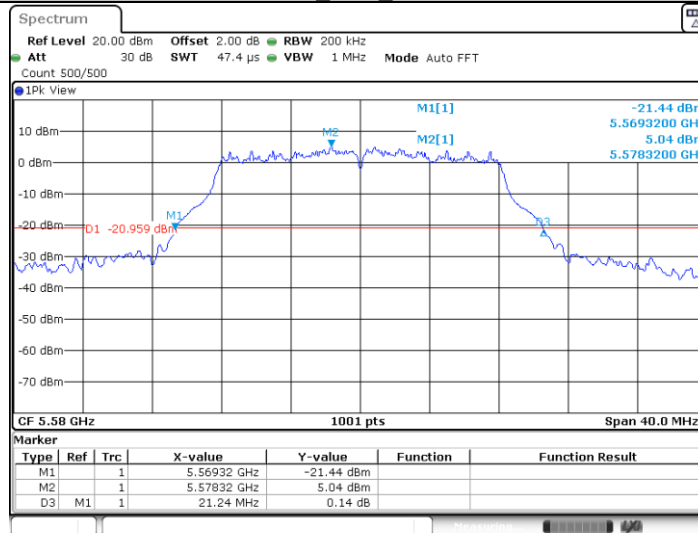
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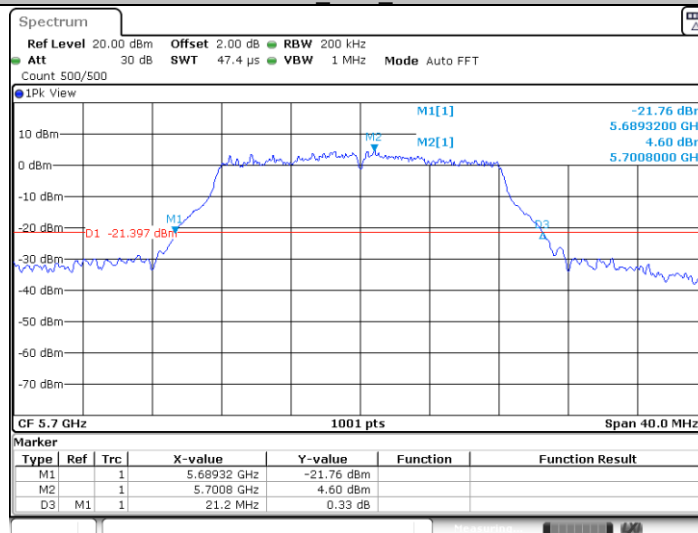
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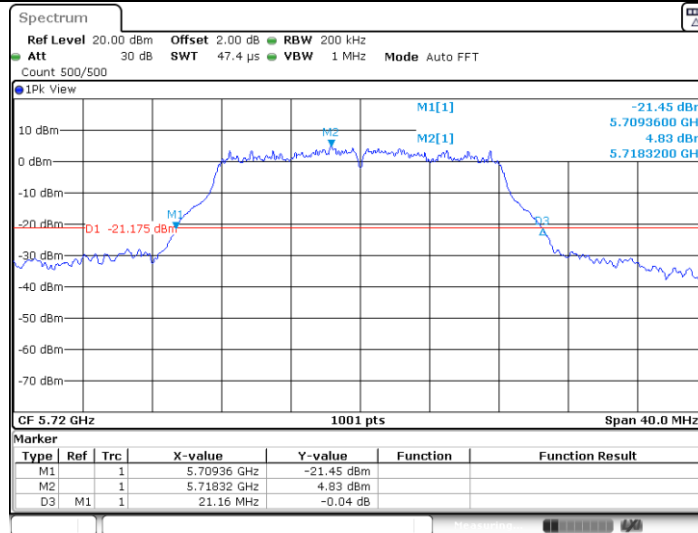
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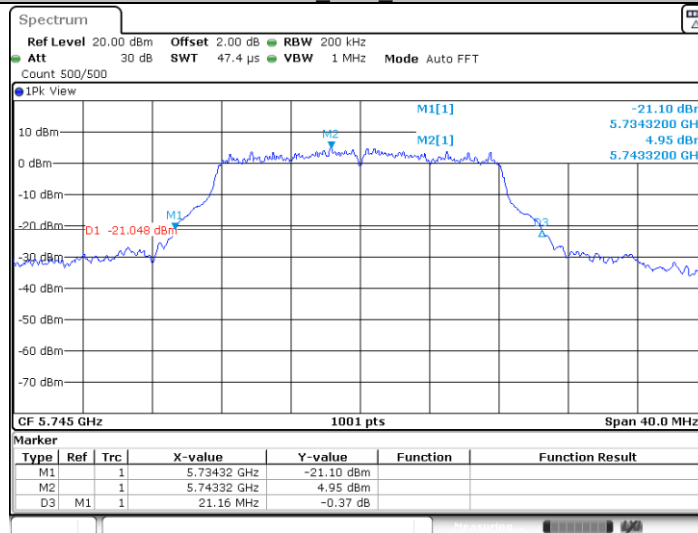
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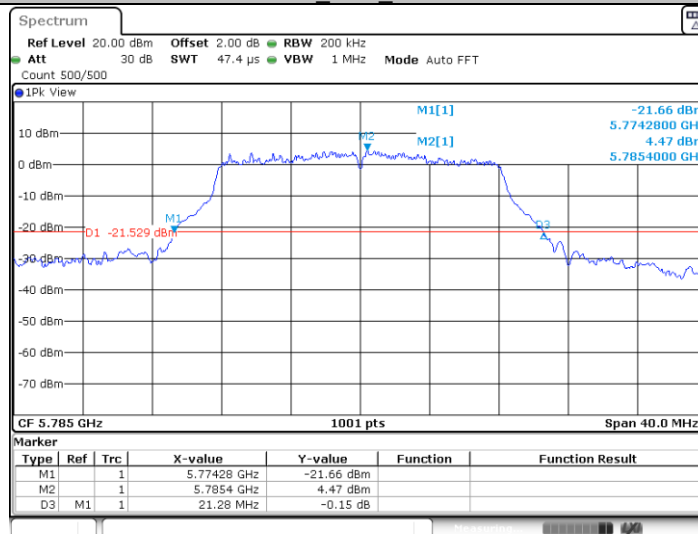
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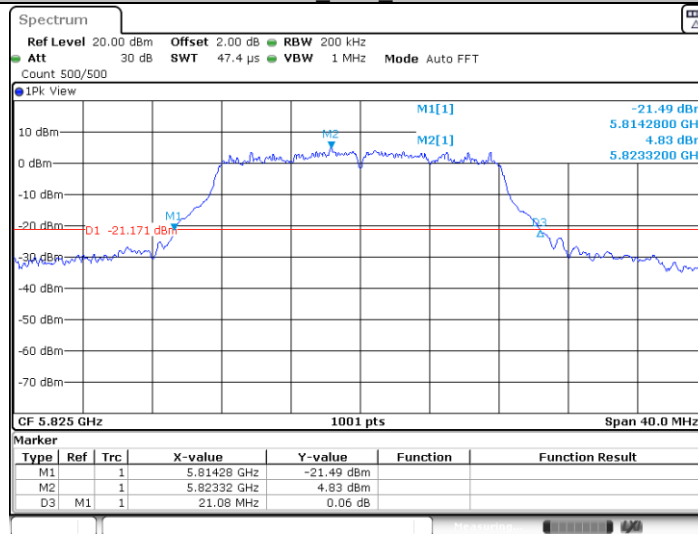
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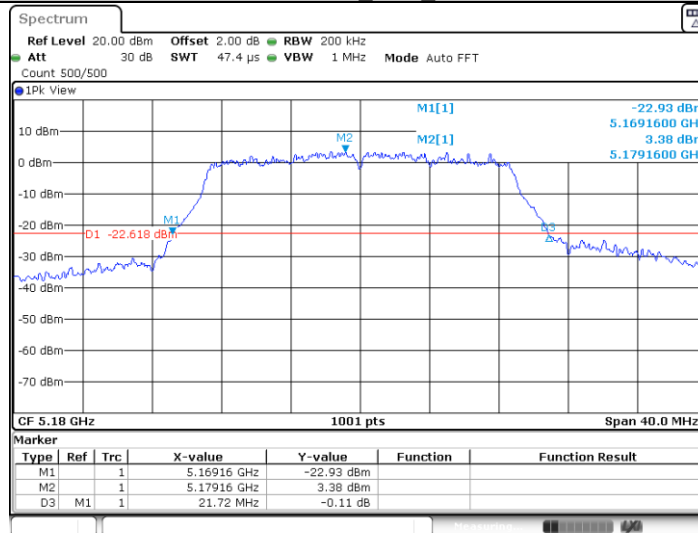
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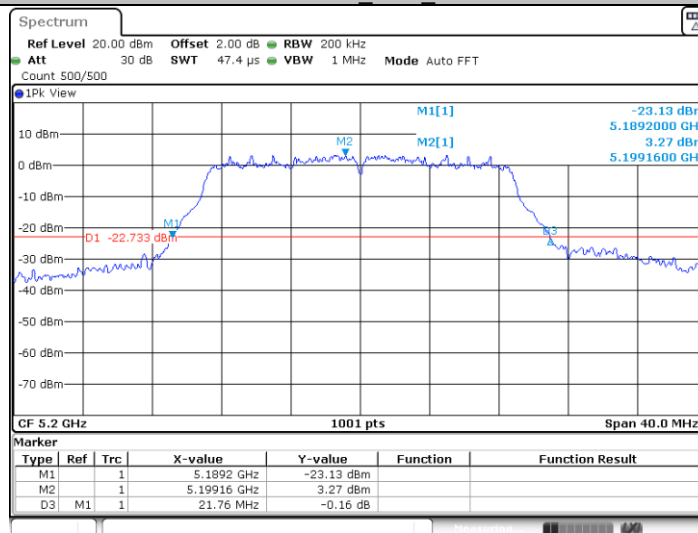
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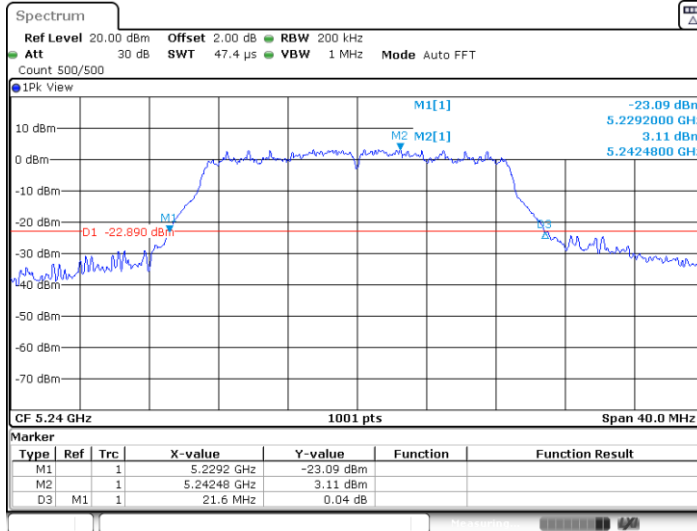
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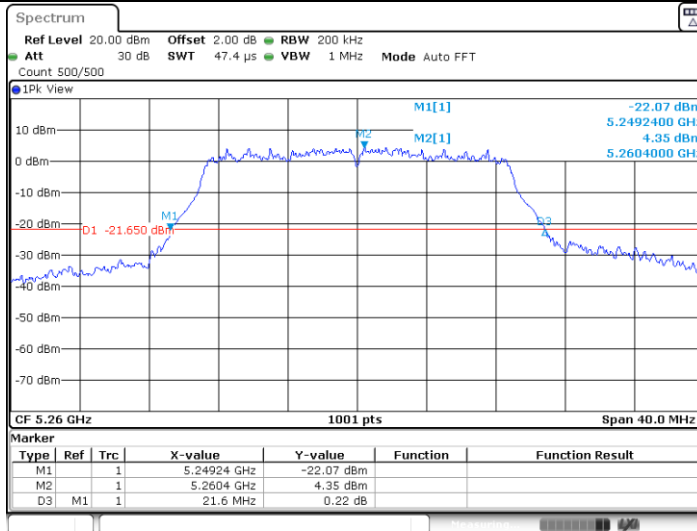
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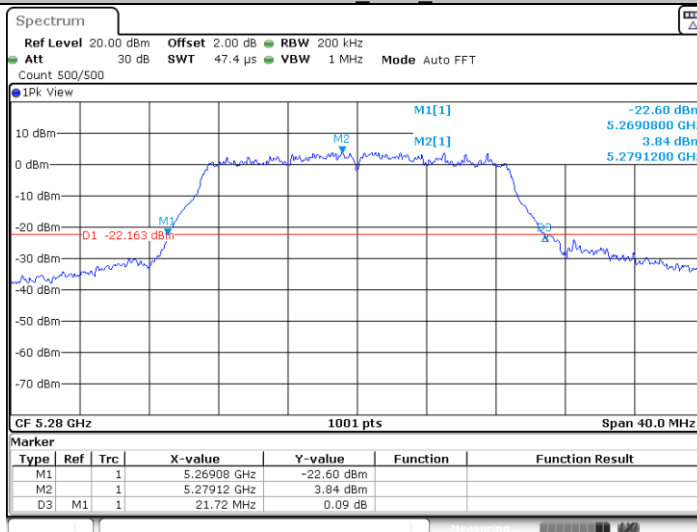
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11N20SISO_Ant1_5260



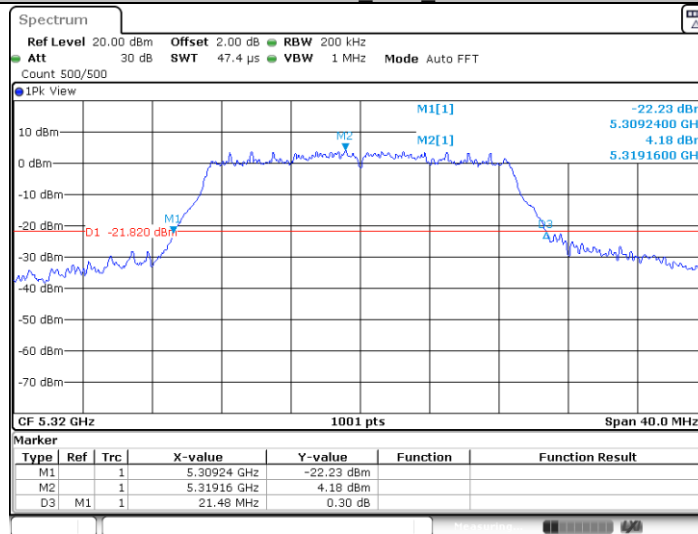
Date: 16.FEB.2022 09:30:27

11N20SISO_Ant1_5280

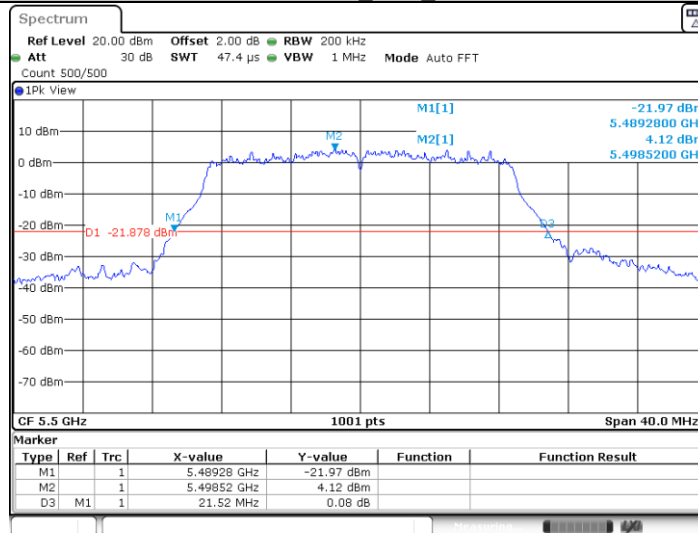


Date: 16.FEB.2022 09:32:48

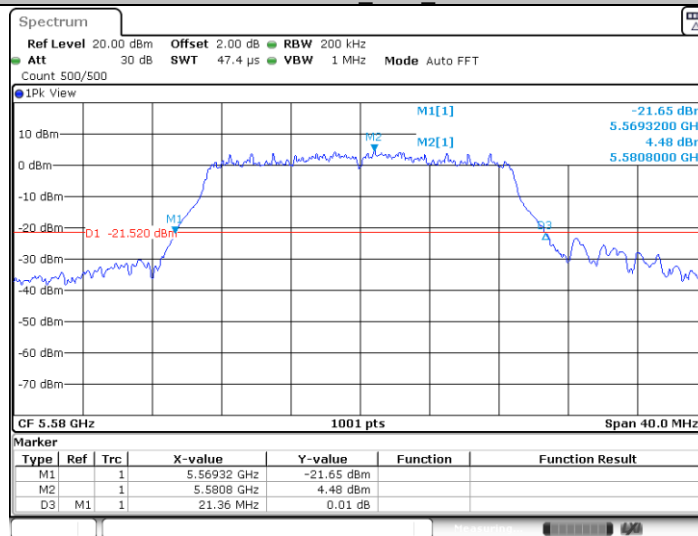
11N20SISO_Ant1_5320



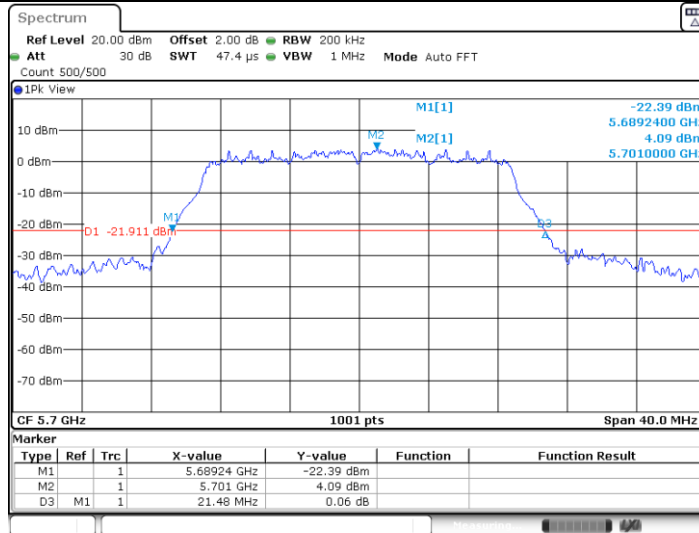
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580

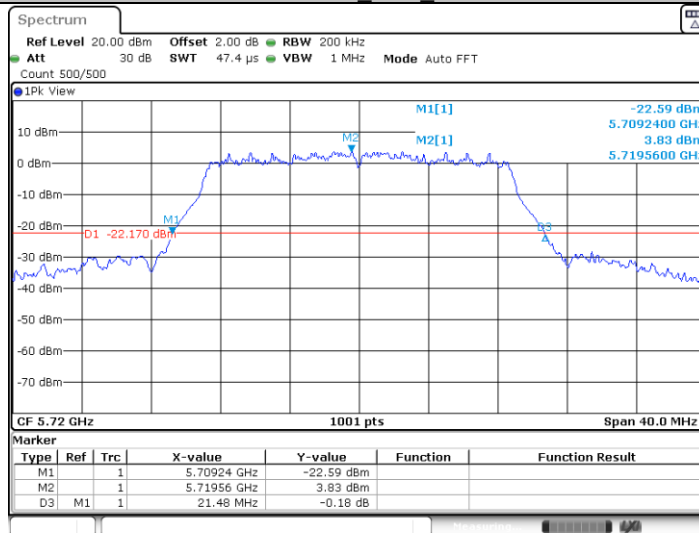


11N20SISO_Ant1_5700



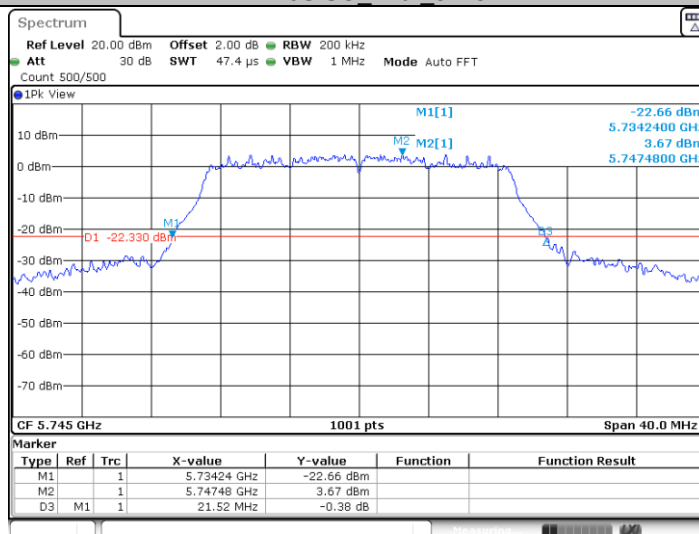
Date: 16.FEB.2022 09:38:49

11N20SISO_Ant1_5720



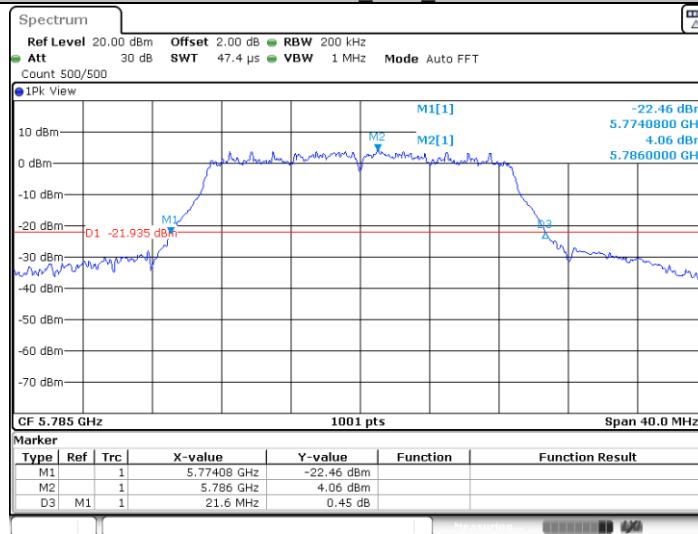
Date: 16.FEB.2022 09:40:23

11N20SISO_Ant1_5745



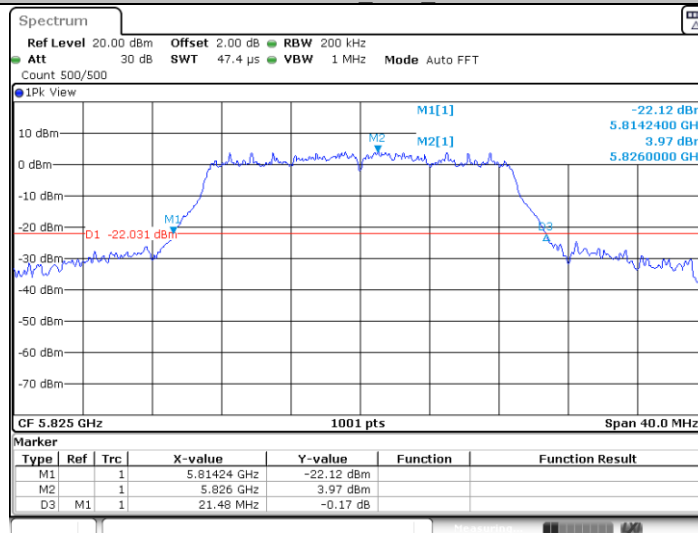
Date: 15.FEB.2022 15:15:11

11N20SISO_Ant1_5785



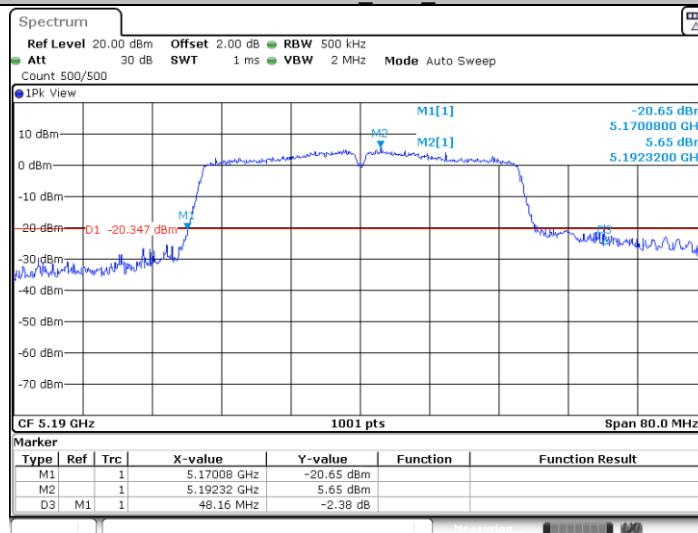
Date: 15.FEB.2022 15:17:15

11N20SISO_Ant1_5825



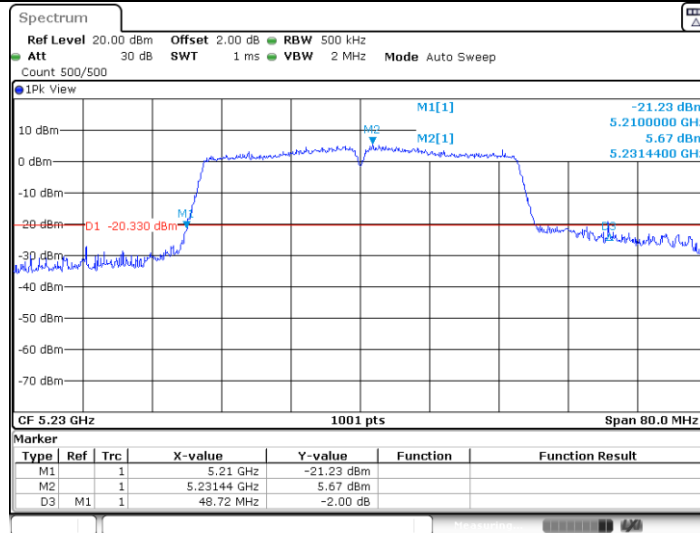
Date: 15.FEB.2022 15:19:01

11N40SISO_Ant1_5190



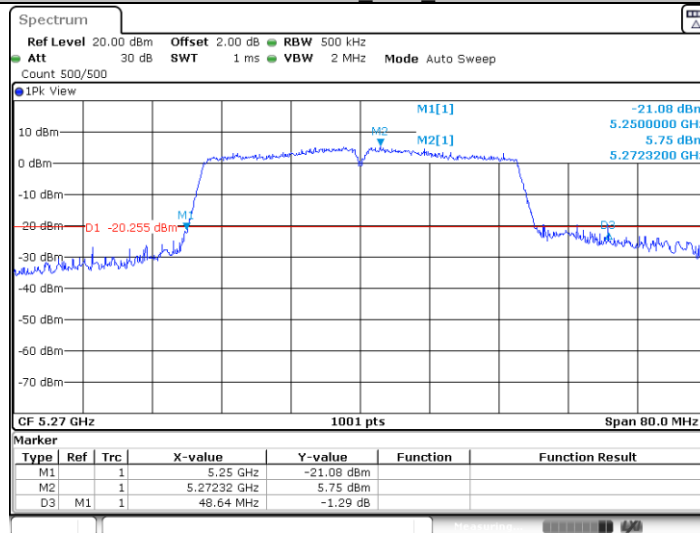
Date: 15.FEB.2022 17:14:48

11N40SISO_Ant1_5230



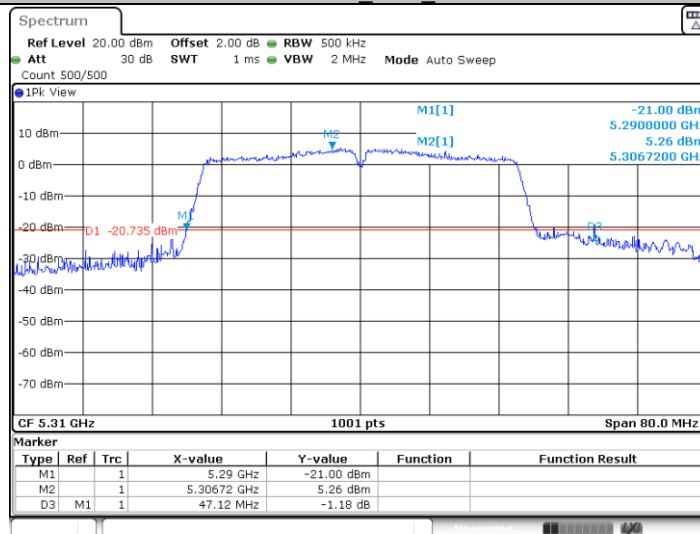
Date: 15.FEB.2022 17:16:38

11N40SISO_Ant1_5270



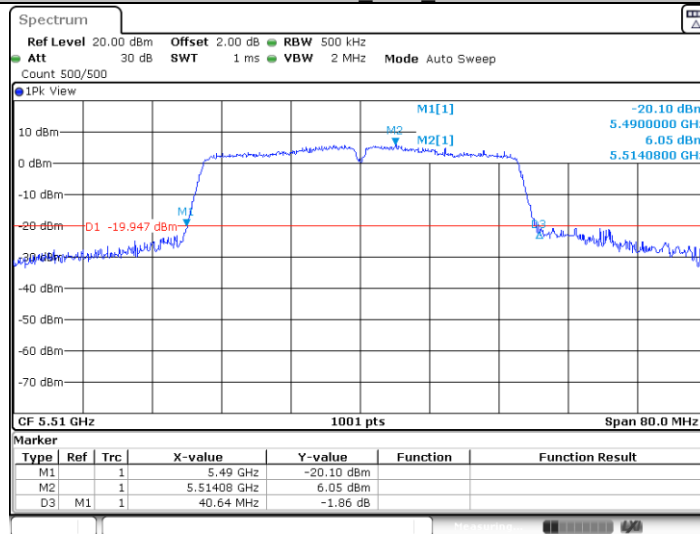
Date: 16.FEB.2022 09:43:38

11N40SISO_Ant1_5310



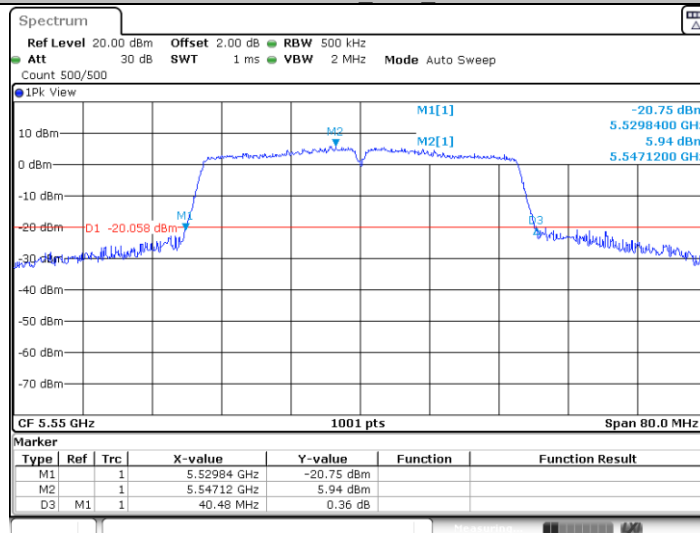
Date: 16.FEB.2022 09:45:04

11N40SISO_Ant1_5510



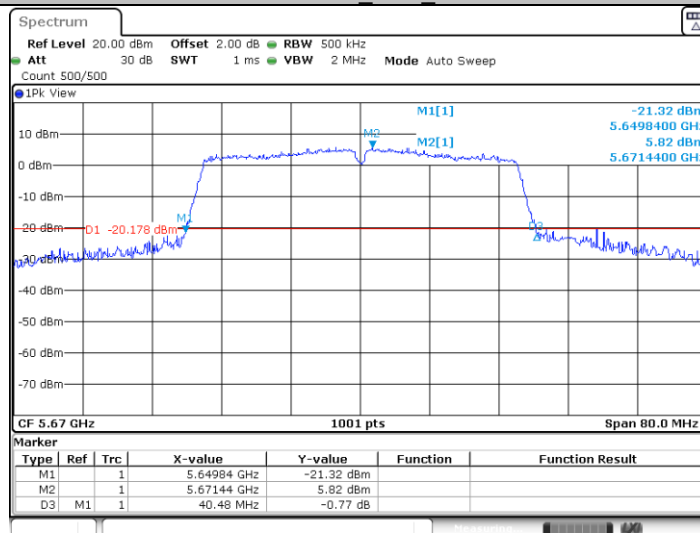
Date: 16.FEB.2022 09:46:49

11N40SISO_Ant1_5550



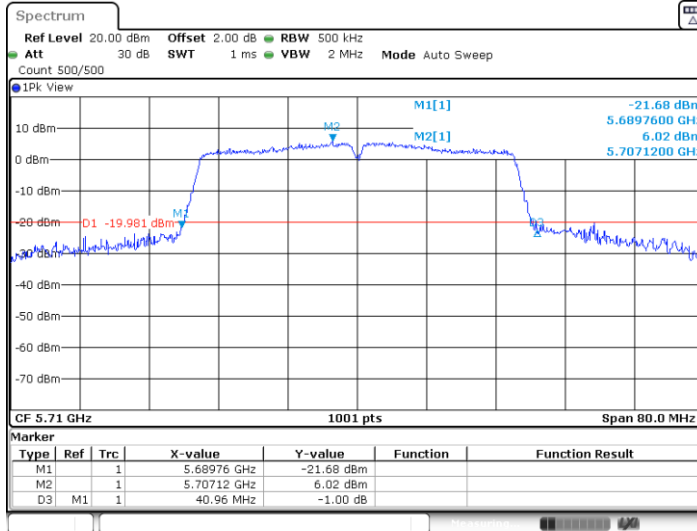
Date: 16.FEB.2022 09:48:26

11N40SISO_Ant1_5670



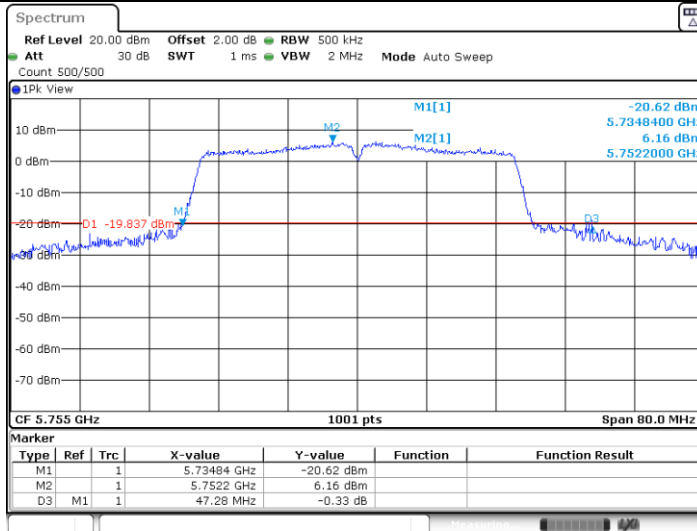
Date: 16.FEB.2022 09:49:51

11N40SISO_Ant1_5710



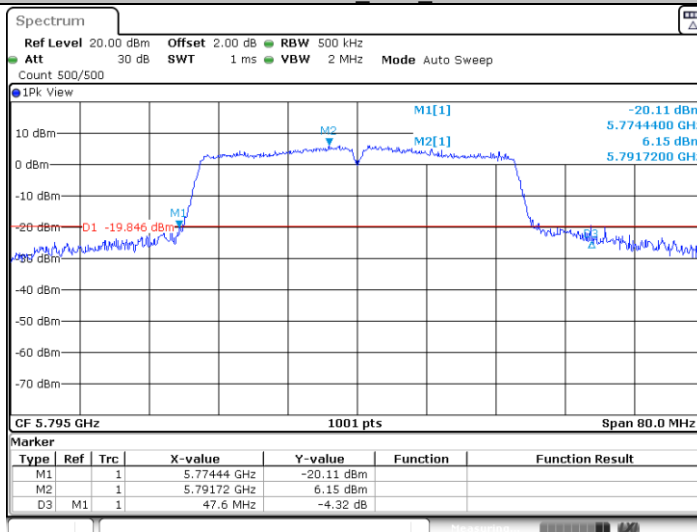
Date: 16.FEB.2022 09:51:28

11N40SISO_Ant1_5755



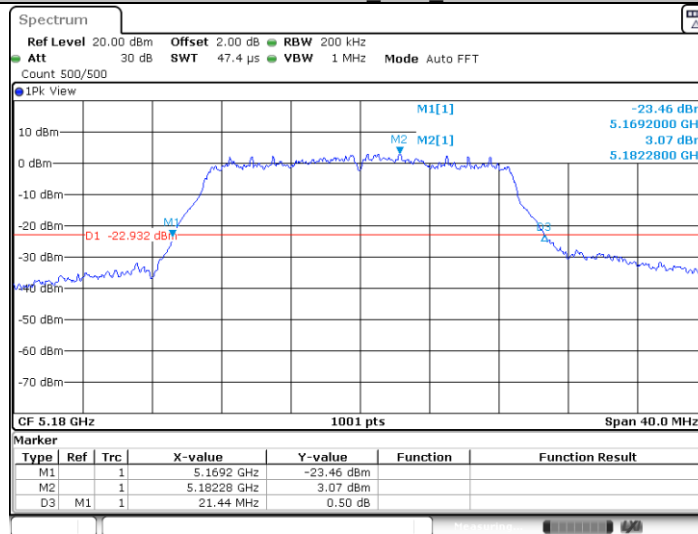
Date: 15.FEB.2022 17:18:24

11N40SISO_Ant1_5795

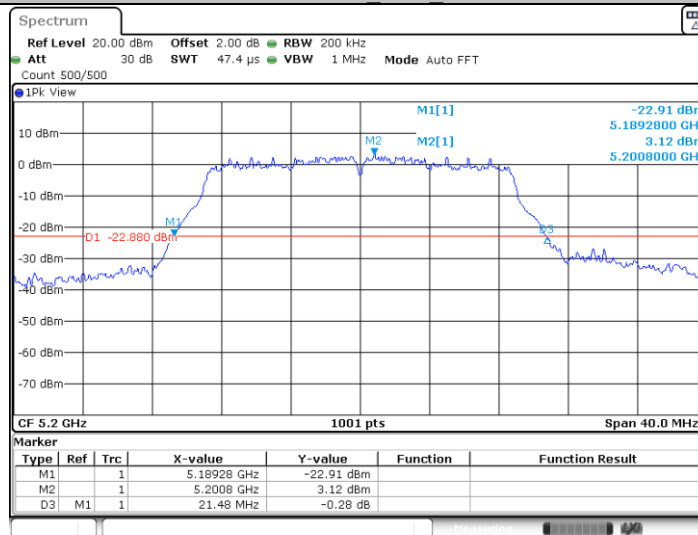


Date: 15.FEB.2022 17:20:27

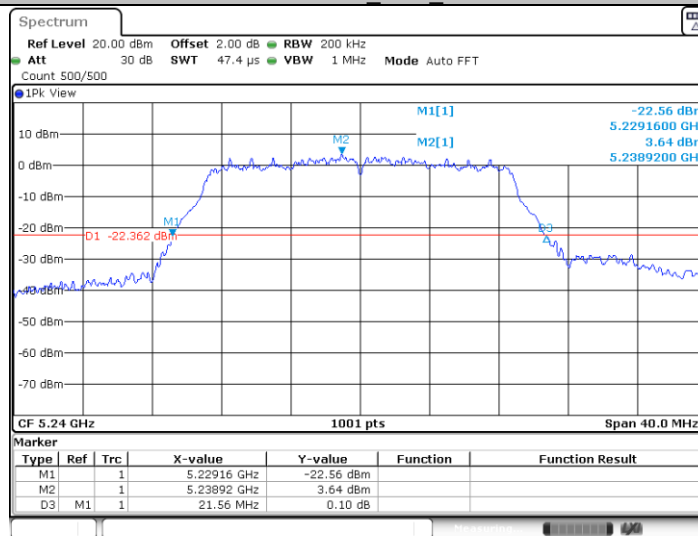
11AC20SISO Ant1 5180



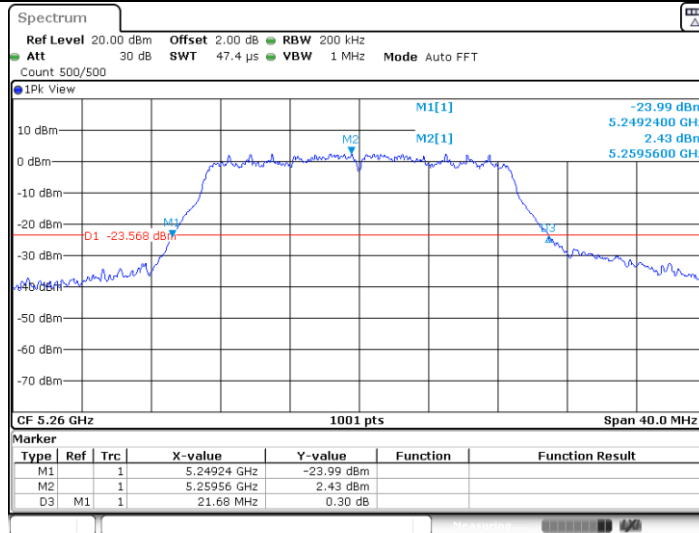
11AC20SISO Ant1 5200



11AC20SISO Ant1 5240

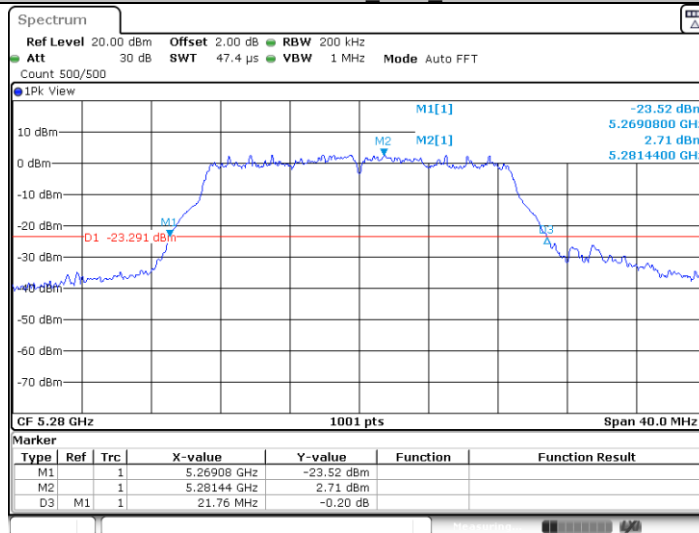


11AC20SISO_Ant1_5260



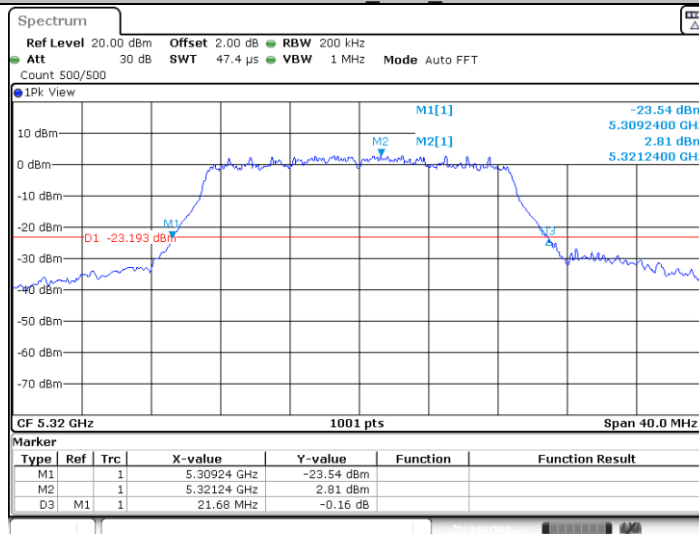
Date: 16.FEB.2022 09:54:03

11AC20SISO_Ant1_5280



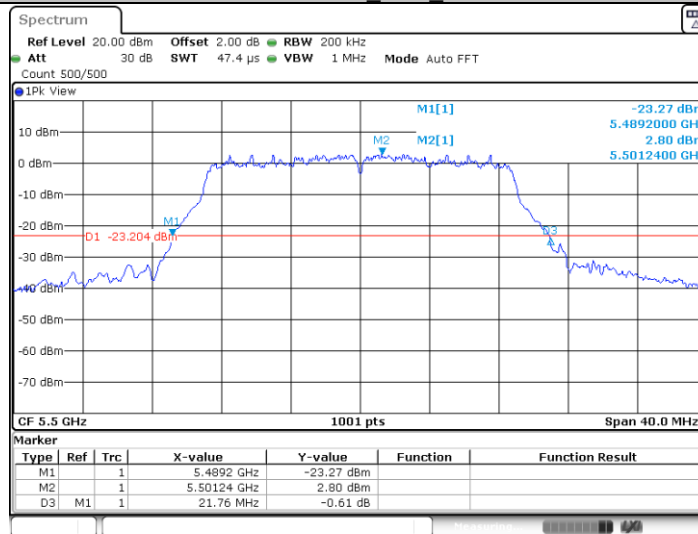
Date: 16.FEB.2022 09:55:34

11AC20SISO_Ant1_5320

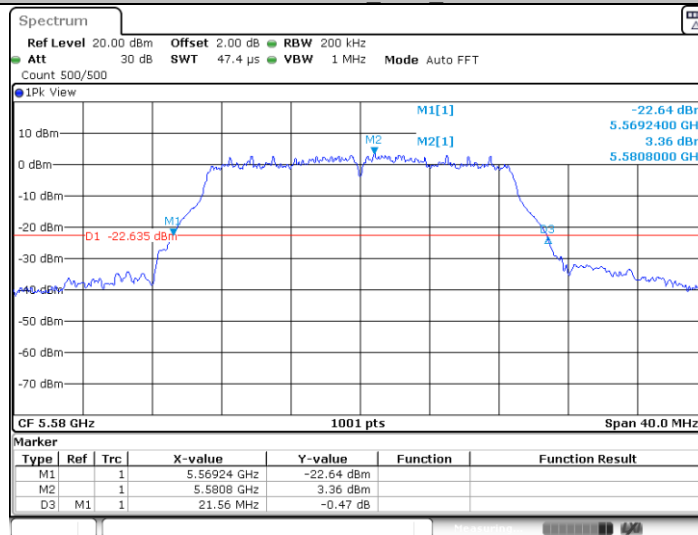


Date: 16.FEB.2022 09:56:56

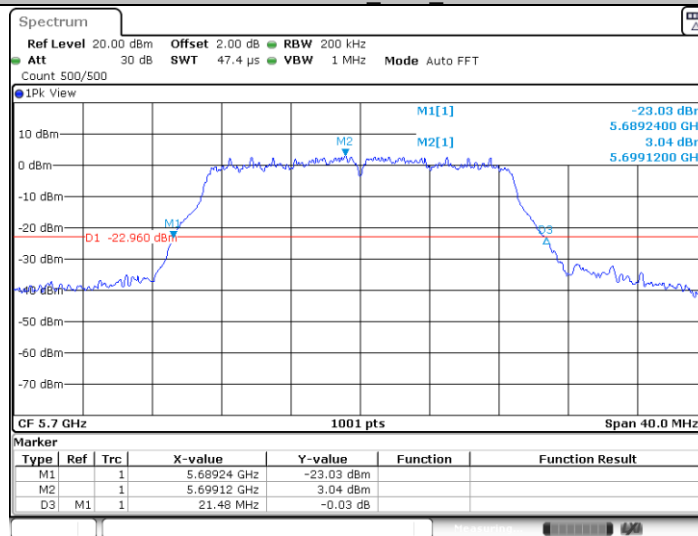
11AC20SISO Ant1 5500



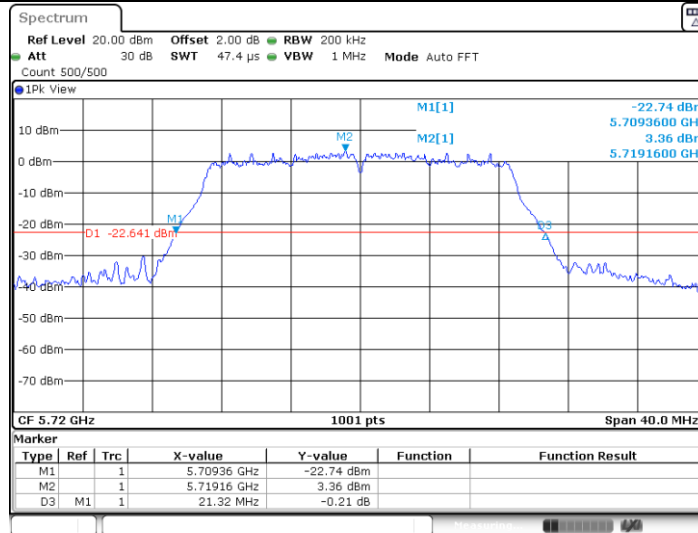
11AC20SISO Ant1 5580



11AC20SISO Ant1 5700

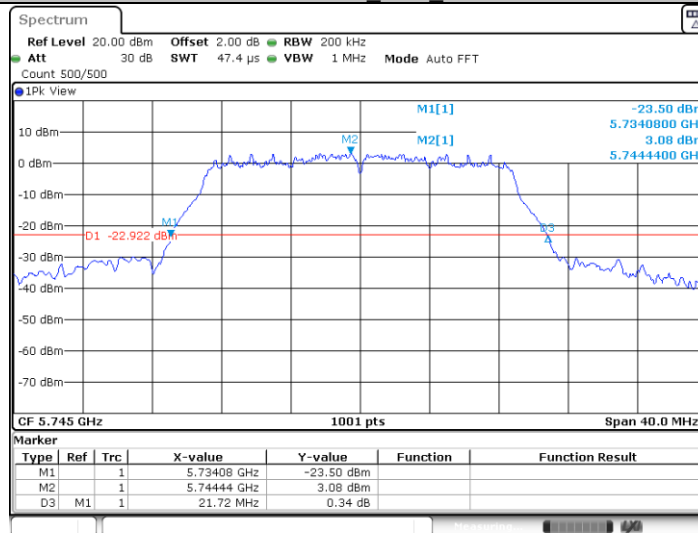


11AC20SISO_Ant1_5720



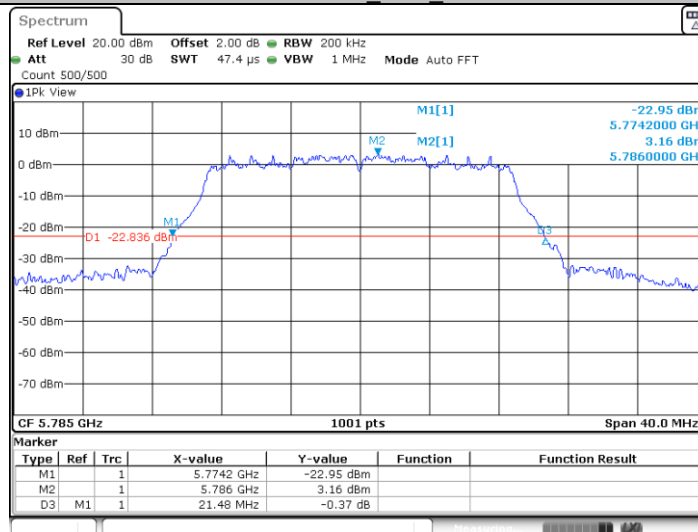
Date: 16.FEB.2022 10:03:11

11AC20SISO_Ant1_5745



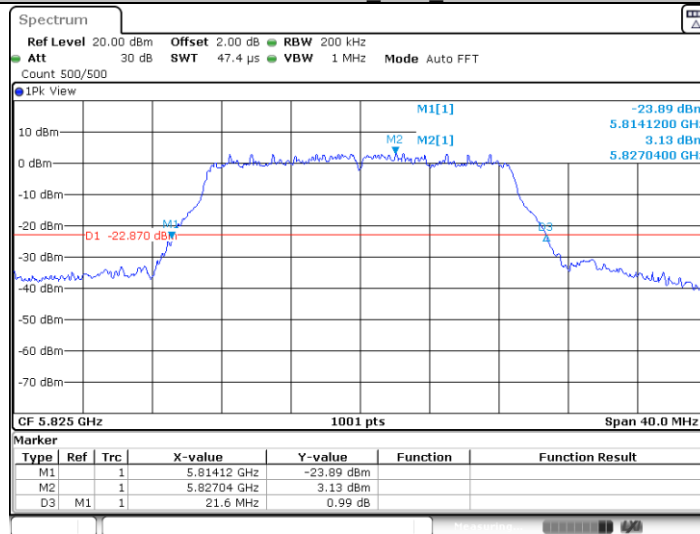
Date: 15.FEB.2022 15:39:38

11AC20SISO_Ant1_5785



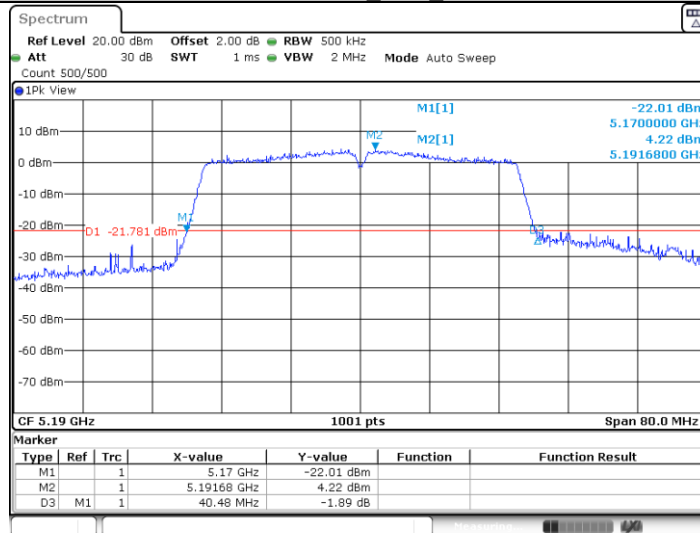
Date: 15.FEB.2022 15:41:39

11AC20SISO Ant1_5825



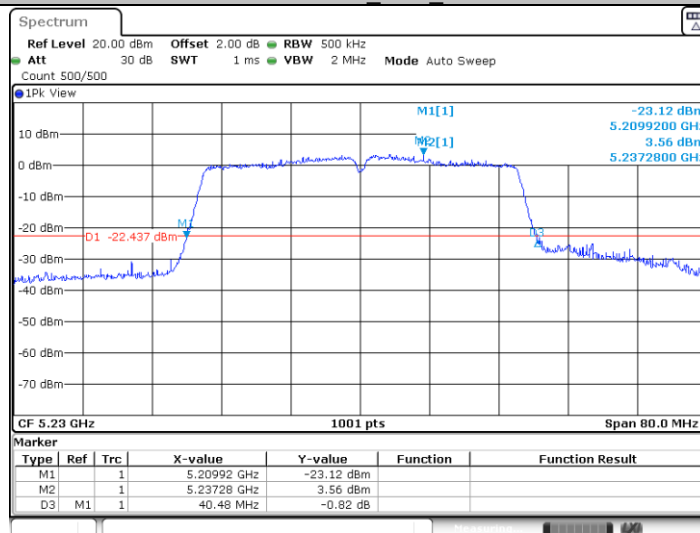
Date: 15.FEB.2022 15:43:40

11AC40SISO Ant1_5190



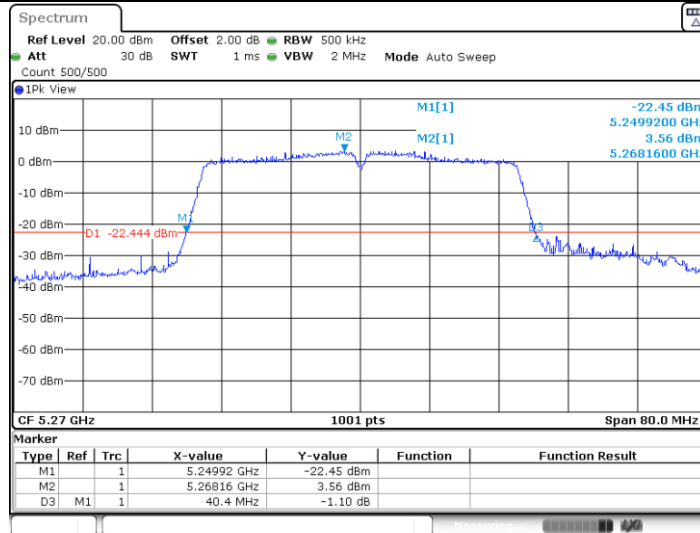
Date: 15.FEB.2022 17:23:05

11AC40SISO Ant1_5230



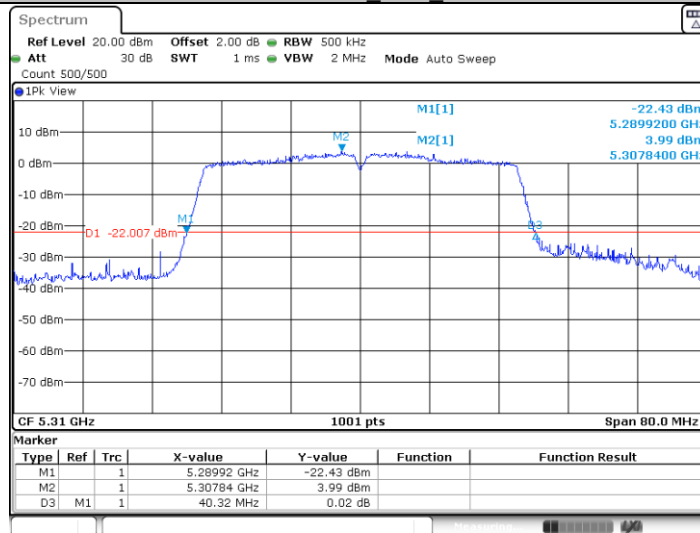
Date: 15.FEB.2022 17:25:04

11AC40SISO_Ant1_5270



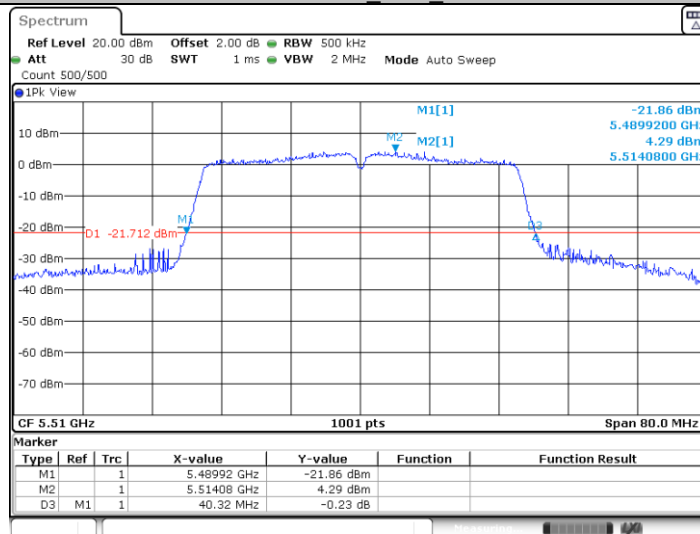
Date: 16.FEB.2022 10:05:42

11AC40SISO_Ant1_5310



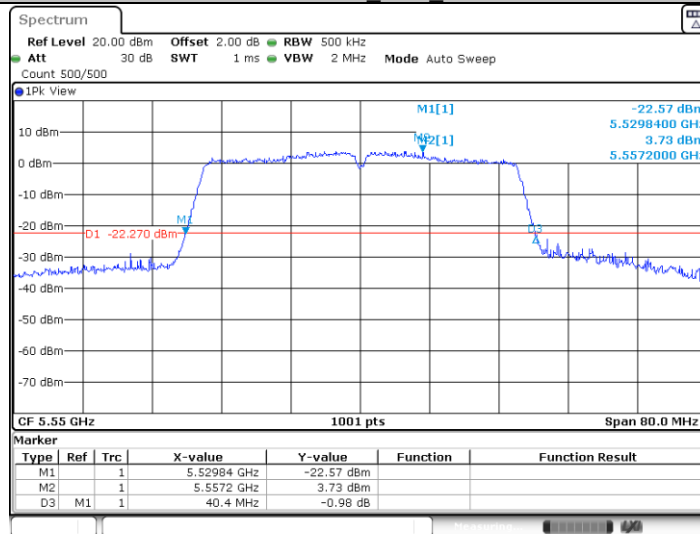
Date: 16.FEB.2022 10:07:09

11AC40SISO_Ant1_5510



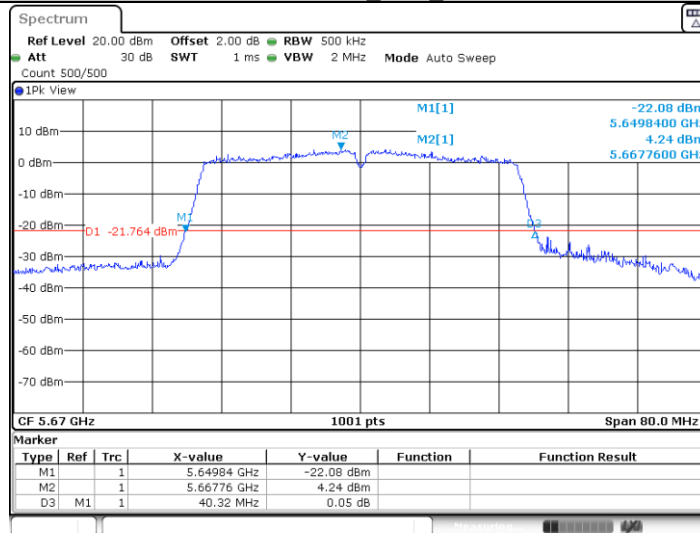
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11AC40SISO Ant1 5550



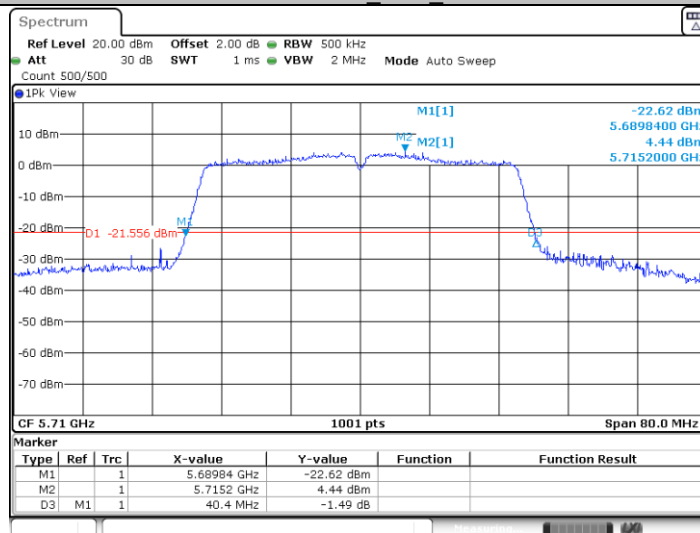
Date: 16.FEB.2022 10:10:21

11AC40SISO Ant1 5670



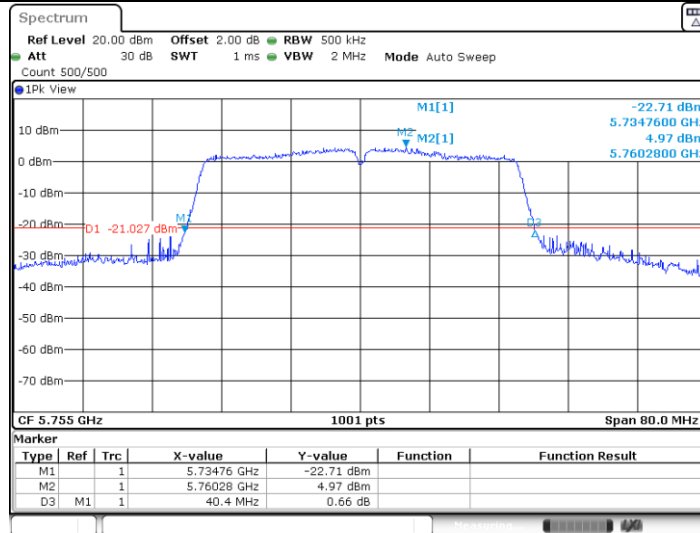
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11AC40SISO Ant1 5710



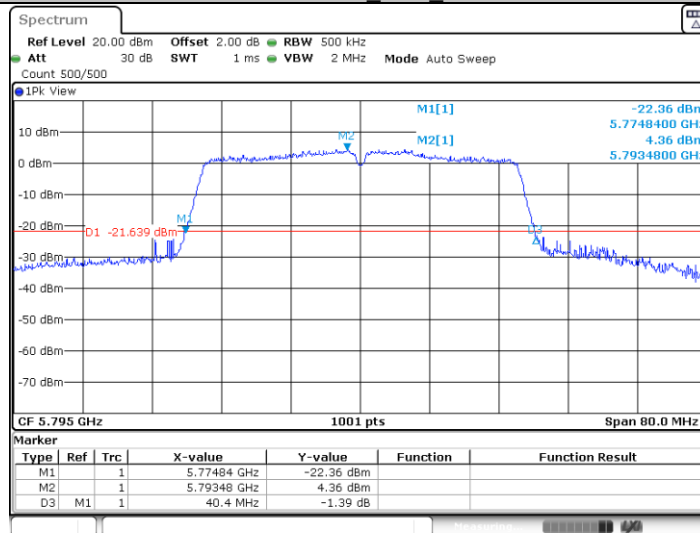
Date: 16.FEB.2022 10:13:19

11AC40SISO_Ant1_5755



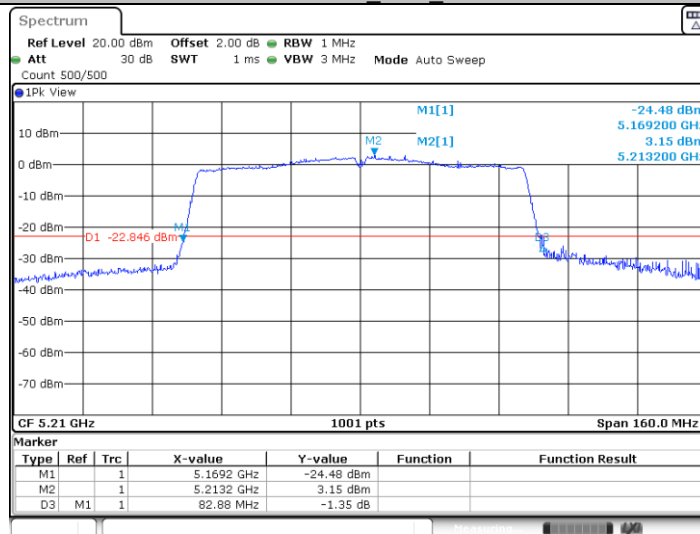
Date: 15.FEB.2022 17:28:55

11AC40SISO_Ant1_5795



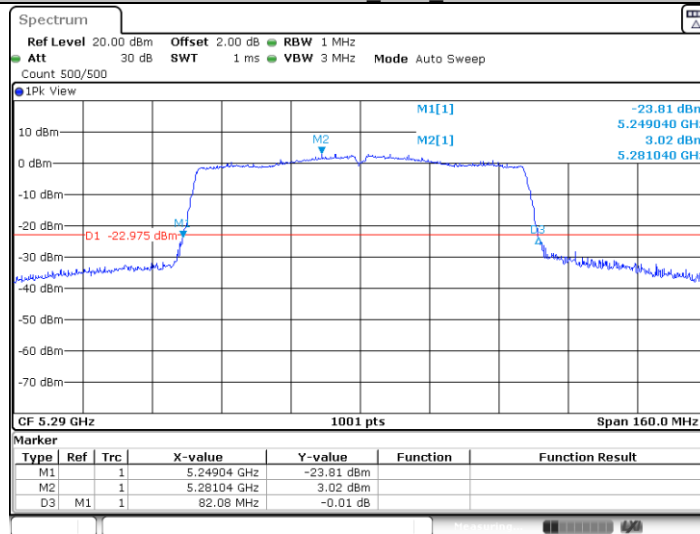
Date: 15.FEB.2022 17:28:58

11AC80SISO_Ant1_5210



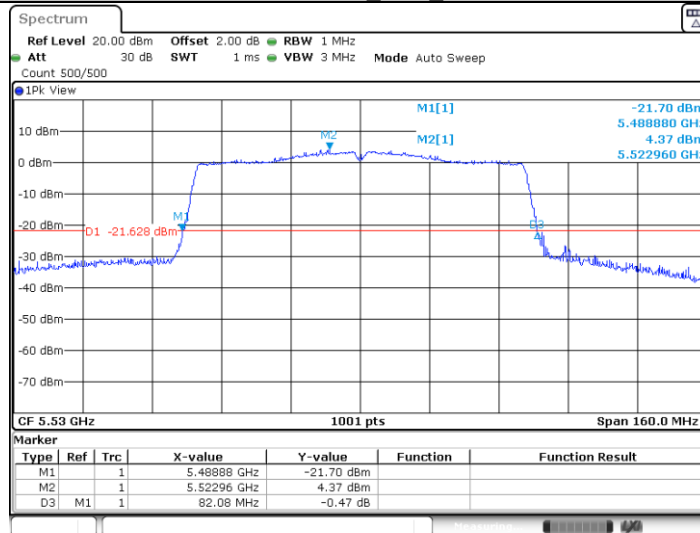
Date: 15.FEB.2022 17:31:34

11AC80SISO_Ant1_5290



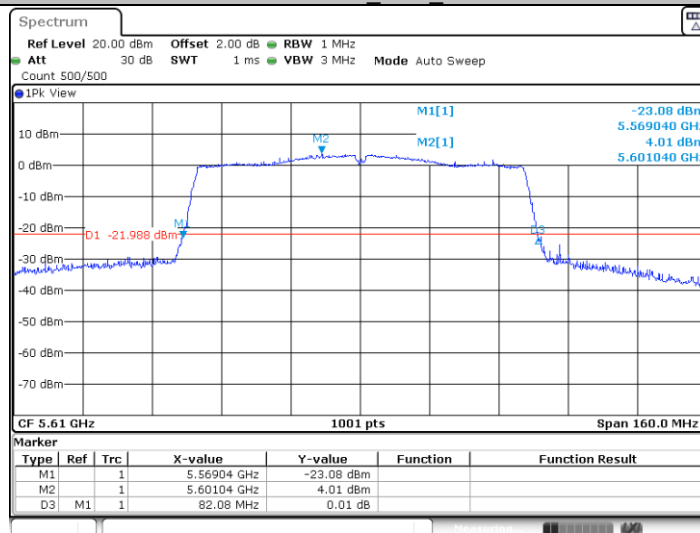
Date: 16.FEB.2022 10:15:40

11AC80SISO_Ant1_5530



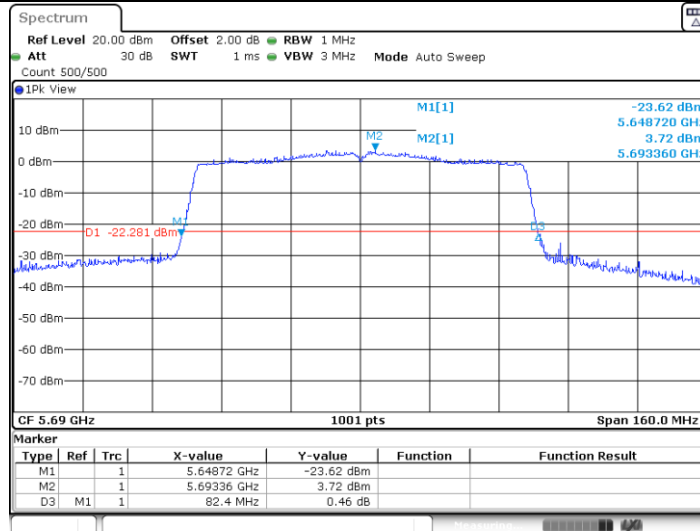
Date: 16.FEB.2022 10:17:30

11AC80SISO_Ant1_5610

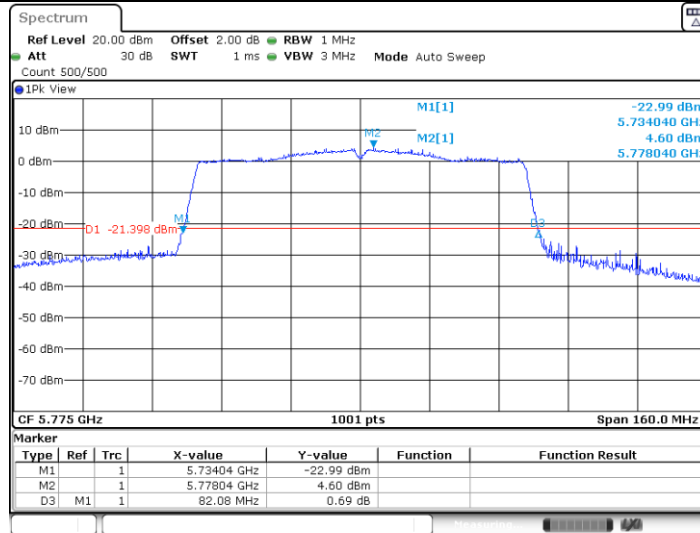


Date: 16.FEB.2022 10:19:11

11AC80SISO_Ant1_5690



11AC80SISO_Ant1_5775

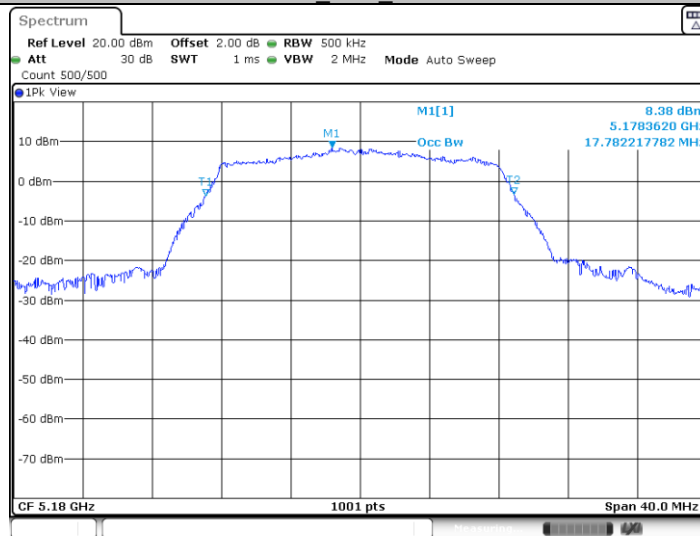


99% Bandwidth Test Result

TestMode	Antenna	Channel [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.782	5171.089	5188.871	---	PASS
		5200	17.862	5191.009	5208.871	---	PASS
		5240	17.862	5231.049	5248.911	---	PASS
		5260	17.822	5251.049	5268.871	---	PASS
		5280	17.862	5271.009	5288.871	---	PASS
		5320	17.822	5311.049	5328.871	---	PASS
		5500	17.822	5491.049	5508.871	---	PASS
		5580	17.822	5571.049	5588.871	---	PASS
		5700	17.822	5691.049	5708.871	---	PASS
		5720	17.822	5711.049	5728.871	---	PASS
		5720 UNII-2C	13.951	5711.049	5725	---	PASS
		5720 UNII-3	3.871	5725	5728.871	---	PASS
		5745	17.942	5735.969	5753.911	---	PASS
		5785	17.902	5775.969	5793.871	---	PASS
		5825	17.902	5816.009	5833.911	---	PASS
11N20SISO	Ant1	5180	18.741	5170.689	5189.431	---	PASS
		5200	18.821	5190.609	5209.431	---	PASS
		5240	18.781	5230.689	5249.471	---	PASS
		5260	18.821	5250.609	5269.431	---	PASS
		5280	18.741	5270.649	5289.391	---	PASS
		5320	18.781	5310.609	5329.391	---	PASS
		5500	18.781	5490.569	5509.351	---	PASS
		5580	18.741	5570.649	5589.391	---	PASS
		5700	18.781	5690.609	5709.391	---	PASS
		5720	18.701	5710.649	5729.351	---	PASS
		5720 UNII-2C	14.351	5710.649	5725	---	PASS
		5720 UNII-3	4.351	5725	5729.351	---	PASS
		5745	18.901	5735.490	5754.391	---	PASS
		5785	18.741	5775.609	5794.351	---	PASS
		5825	18.781	5815.609	5834.391	---	PASS
11N40SISO	Ant1	5190	36.763	5171.778	5208.541	---	PASS
		5230	36.843	5211.778	5248.621	---	PASS
		5270	36.843	5251.698	5288.541	---	PASS
		5310	36.763	5291.698	5328.462	---	PASS
		5510	36.763	5491.698	5528.462	---	PASS
		5550	36.843	5531.618	5568.462	---	PASS
		5670	36.843	5651.618	5688.462	---	PASS
		5710	36.843	5691.618	5728.462	---	PASS
		5710 UNII-2C	33.382	5691.618	5725	---	PASS
		5710 UNII-3	3.462	5725	5728.462	---	PASS
		5755	37.003	5736.538	5773.541	---	PASS
		5795	37.003	5776.538	5813.541	---	PASS
11AC20SISO	Ant1	5180	18.661	5170.729	5189.391	---	PASS
		5200	18.701	5190.649	5209.351	---	PASS
		5240	18.741	5230.689	5249.431	---	PASS
		5260	18.701	5250.649	5269.351	---	PASS
		5280	18.741	5270.649	5289.391	---	PASS
		5320	18.701	5310.689	5329.391	---	PASS
		5500	18.701	5490.649	5509.351	---	PASS
		5580	18.701	5570.649	5589.351	---	PASS
		5700	18.701	5690.649	5709.351	---	PASS
		5720	18.661	5710.649	5729.311	---	PASS
		5720 UNII-2C	14.351	5710.649	5725	---	PASS
		5720 UNII-3	4.311	5725	5729.311	---	PASS
		5745	18.701	5735.649	5754.351	---	PASS
		5785	18.701	5775.609	5794.311	---	PASS
		5825	18.741	5815.649	5834.391	---	PASS
11AC40SISO	Ant1	5190	36.683	5171.778	5208.462	---	PASS
		5230	36.683	5211.778	5248.462	---	PASS
		5270	36.603	5251.778	5288.382	---	PASS

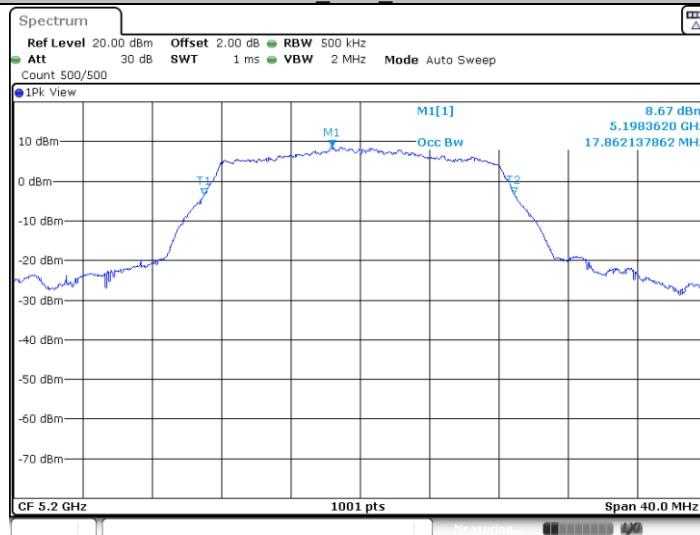
		5310	36.683	5291.698	5328.382	---	PASS
		5510	36.843	5491.618	5528.462	---	PASS
		5550	36.683	5531.698	5568.382	---	PASS
		5670	36.763	5651.618	5688.382	---	PASS
		5710	36.763	5691.618	5728.382	---	PASS
		5710 UNII-2C	33.382	5691.618	5725	---	PASS
		5710 UNII-3	3.382	5725	5728.382	---	PASS
		5755	36.843	5736.618	5773.462	---	PASS
11AC80SISO	Ant1	5795	36.763	5776.618	5813.382	---	PASS
		5210	75.764	5172.278	5248.042	---	PASS
		5290	75.764	5252.278	5328.042	---	PASS
		5530	75.764	5492.278	5568.042	---	PASS
		5610	75.764	5572.118	5647.882	---	PASS
		5690	75.764	5652.118	5727.882	---	PASS
		5690 UNII-2C	72.882	5652.118	5725	---	PASS
		5690 UNII-3	2.882	5725	5727.882	---	PASS
		5775	75.924	5737.118	5813.042	---	PASS

11A Ant1 5180



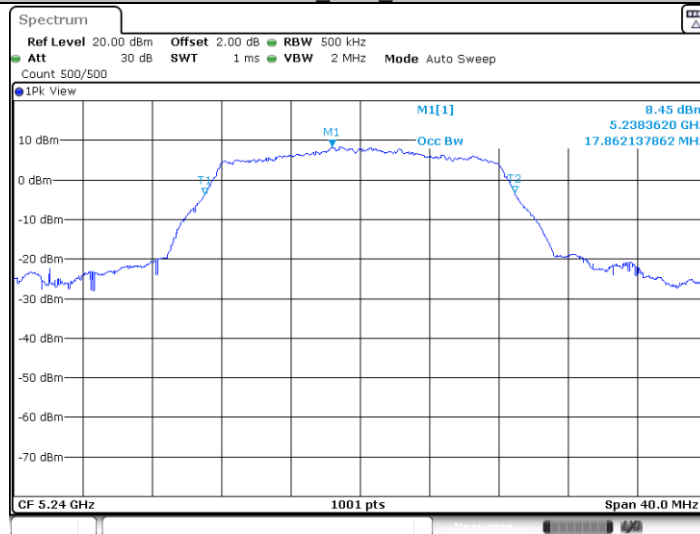
Date: 15.FEB.2022 14:48:57

11A Ant1 5200



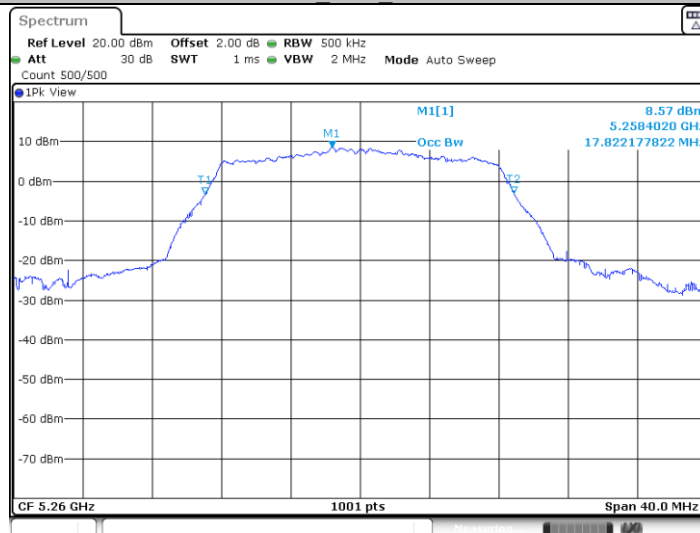
Date: 15.FEB.2022 14:51:49

11A_Ant1_5240



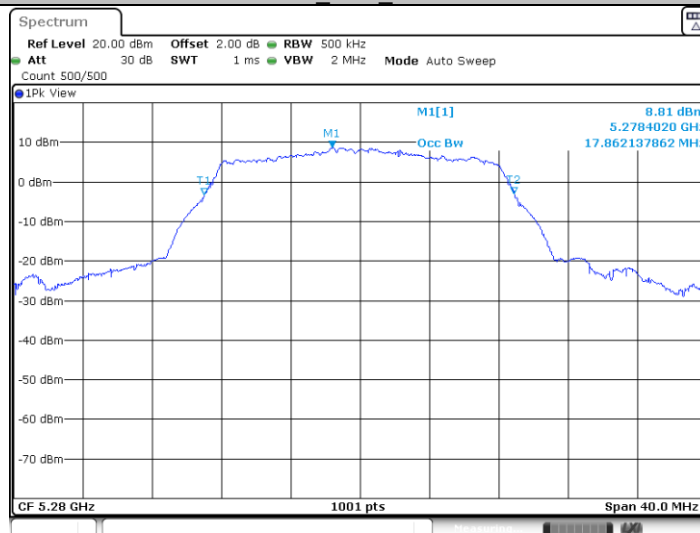
Date: 15.FEB.2022 14:57:03

11A_Ant1_5260



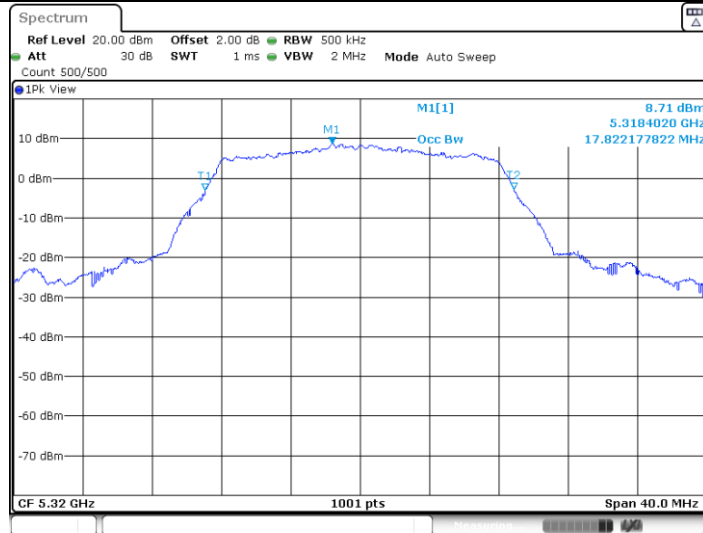
Date: 15.FEB.2022 17:48:28

11A_Ant1_5280



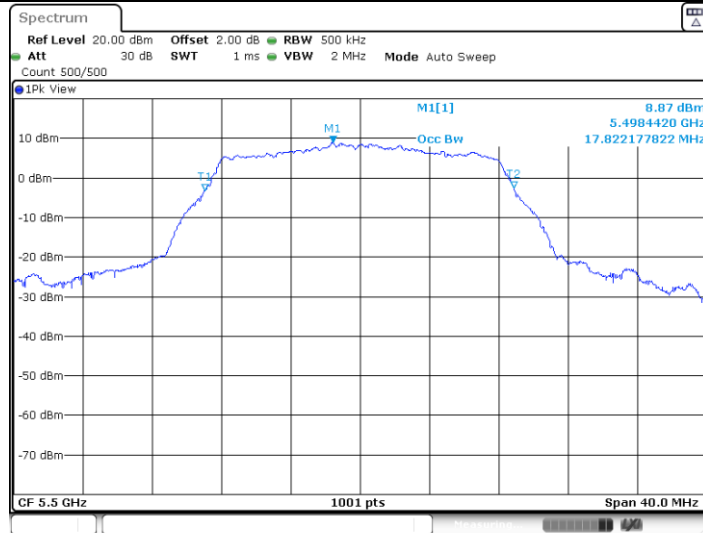
Date: 15.FEB.2022 17:50:34

11A Ant1 5320



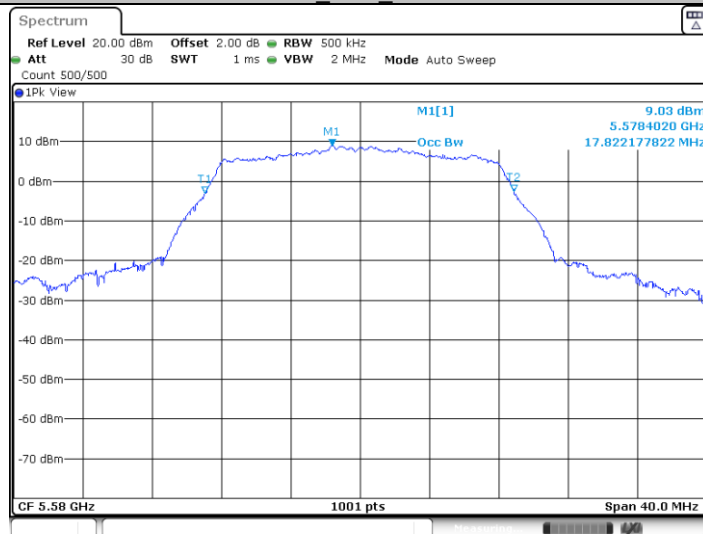
Date: 15.FEB.2022 17:52:01

11A Ant1 5500



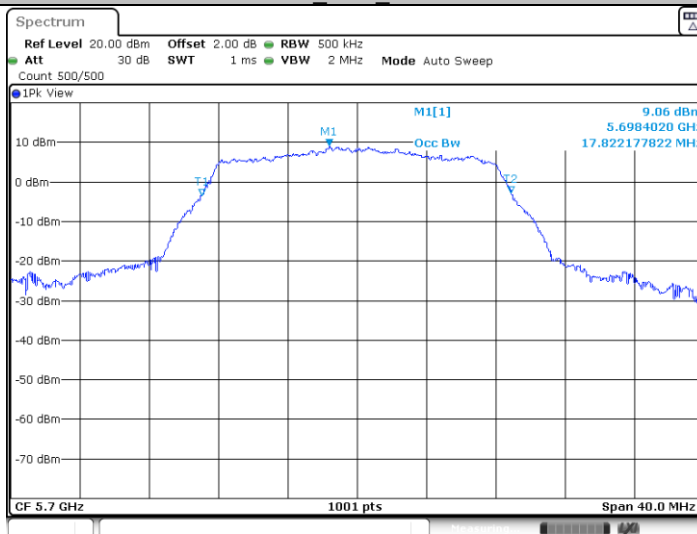
Date: 15.FEB.2022 17:53:32

11A Ant1 5580



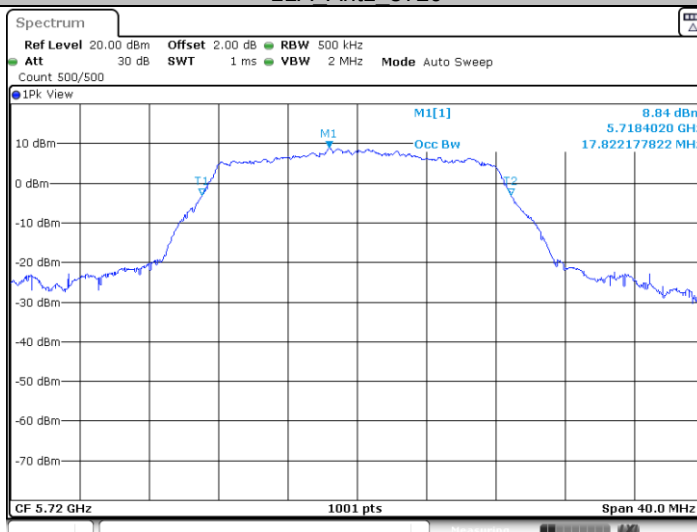
Date: 15.FEB.2022 17:55:10

11A_Ant1_5700



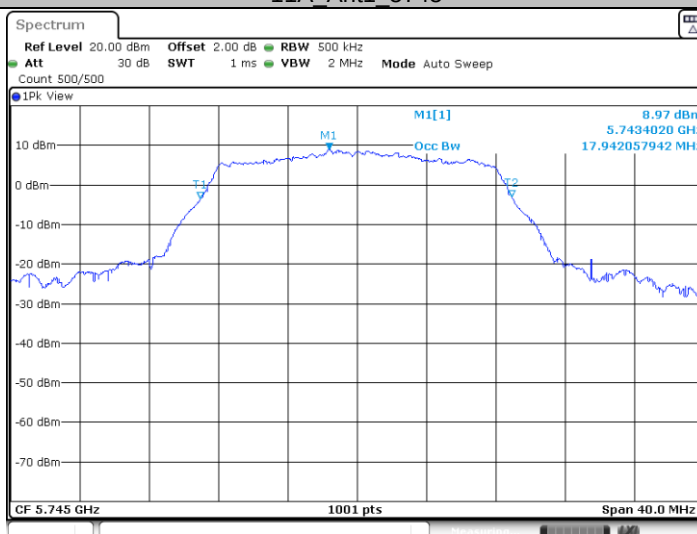
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11A_Ant1_5720



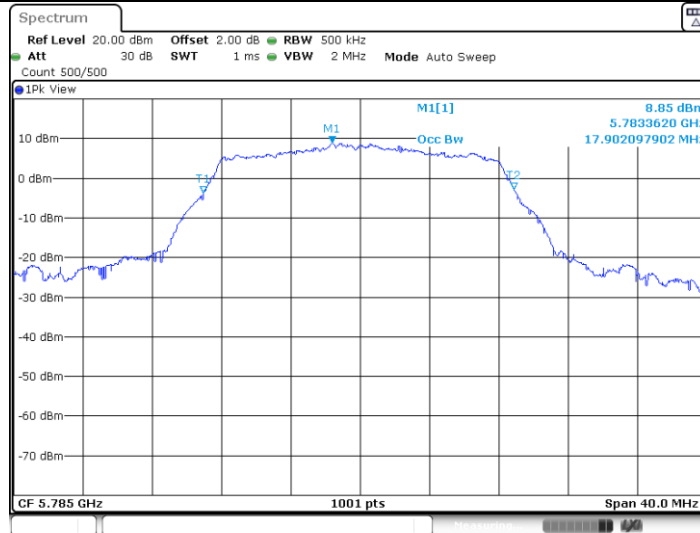
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11A_Ant1_5745



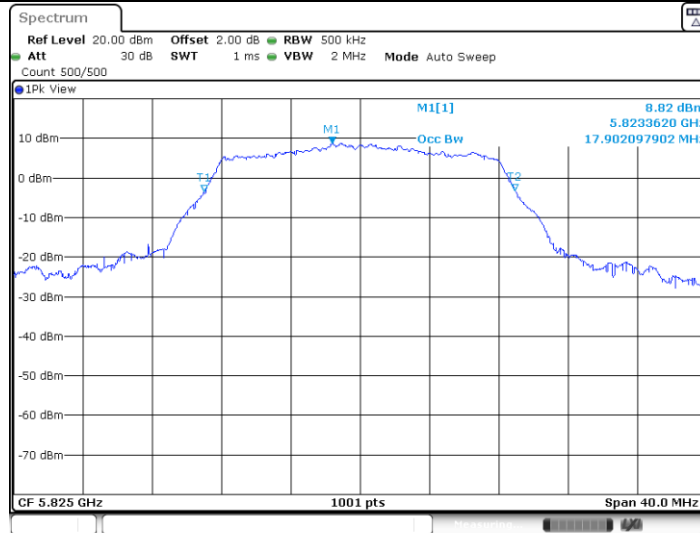
Date: 15.FEB.2022 14:59:20

11A_Ant1_5785



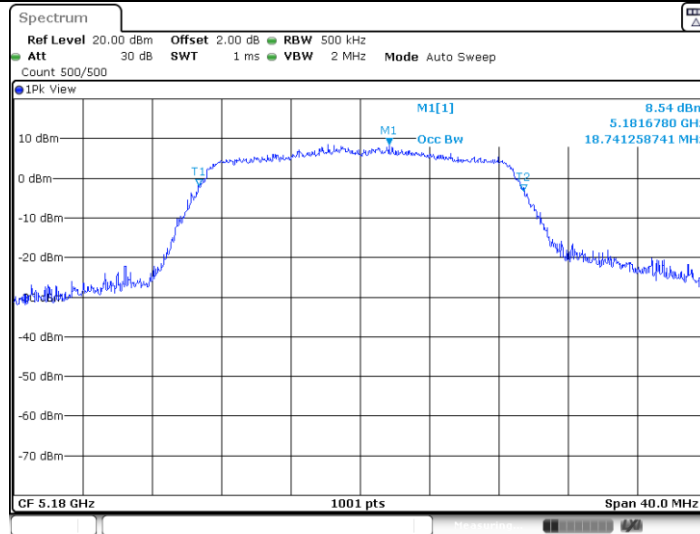
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11A_Ant1_5825



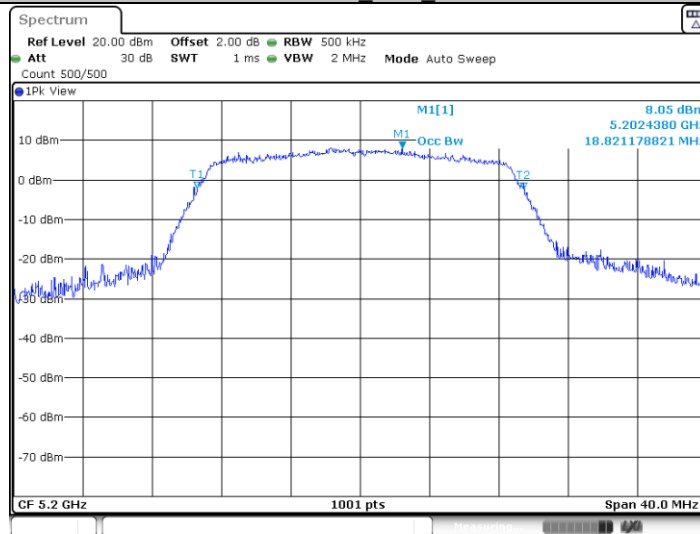
Date: 15.FEB.2022 15:05:08

11N20SISO_Ant1_5180



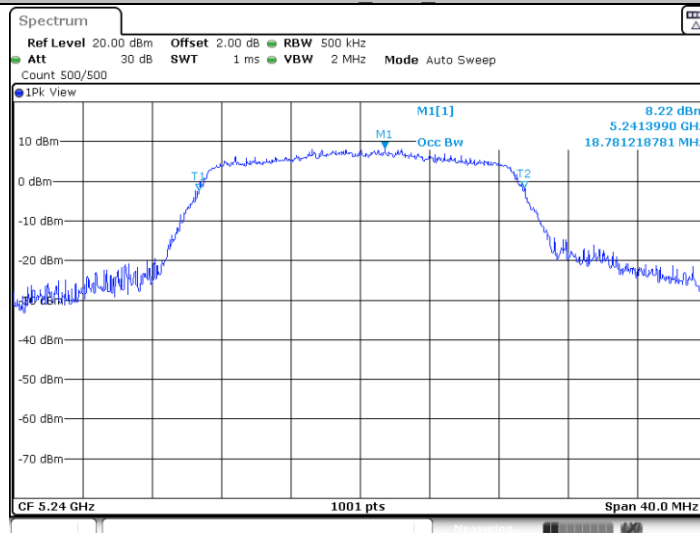
Date: 15.FEB.2022 15:07:43

11N20SISO_Ant1_5200



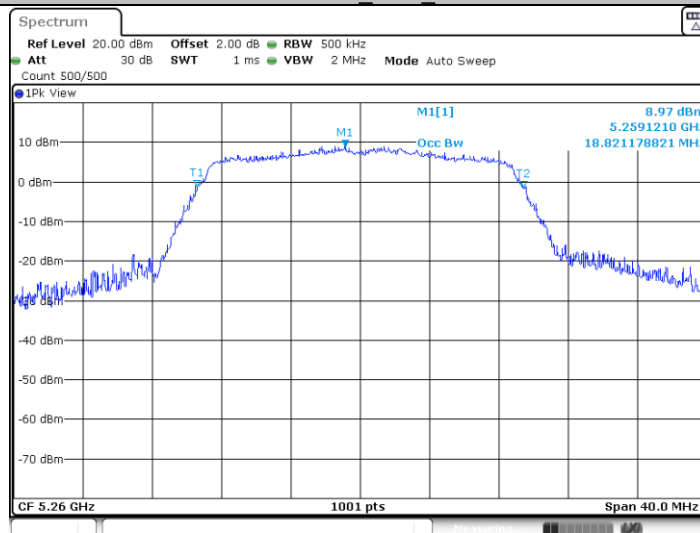
Date: 15.FEB.2022 15:11:39

11N20SISO_Ant1_5240



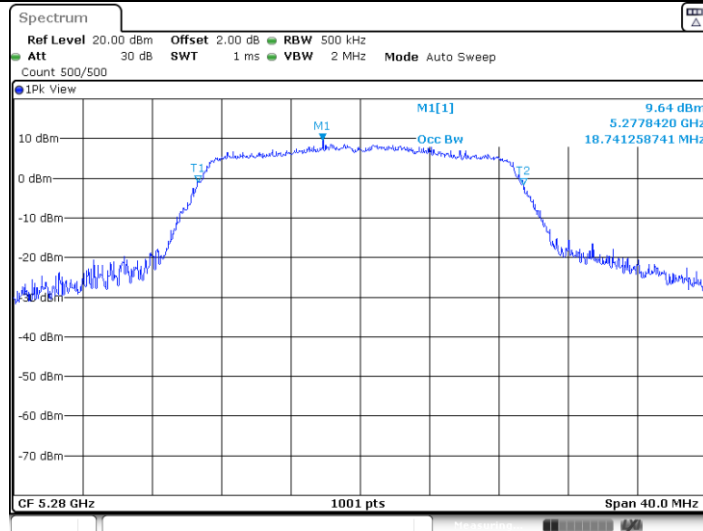
Date: 15.FEB.2022 15:13:35

11N20SISO_Ant1_5260



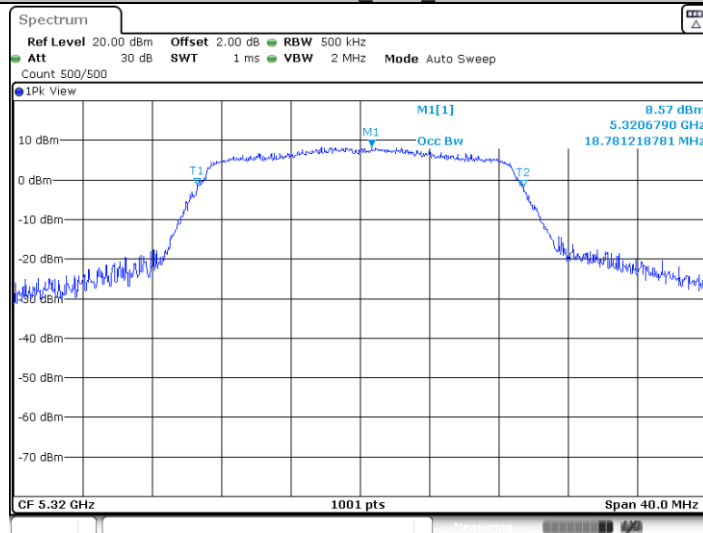
Date: 16.FEB.2022 09:30:39

11N20SISO_Ant1_5280



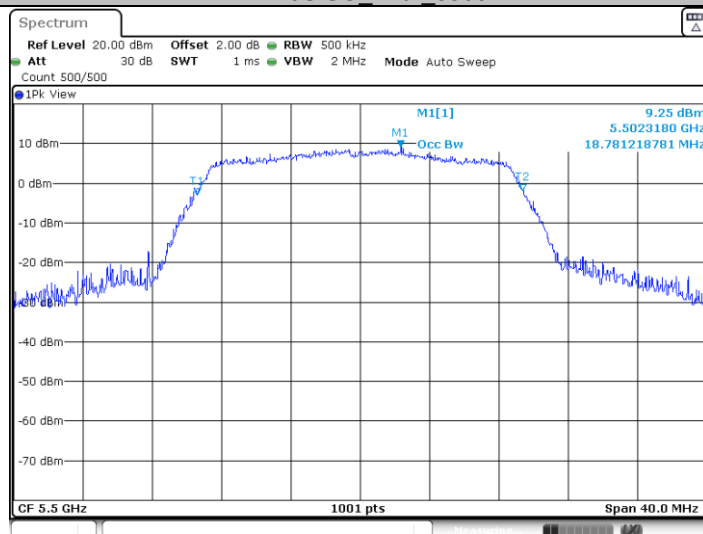
Date: 16.FEB.2022 09:32:59

11N20SISO_Ant1_5320



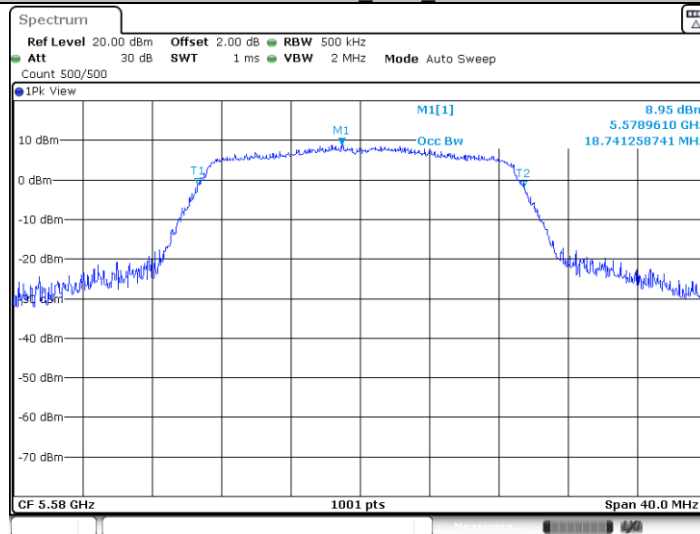
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11N20SISO_Ant1_5500



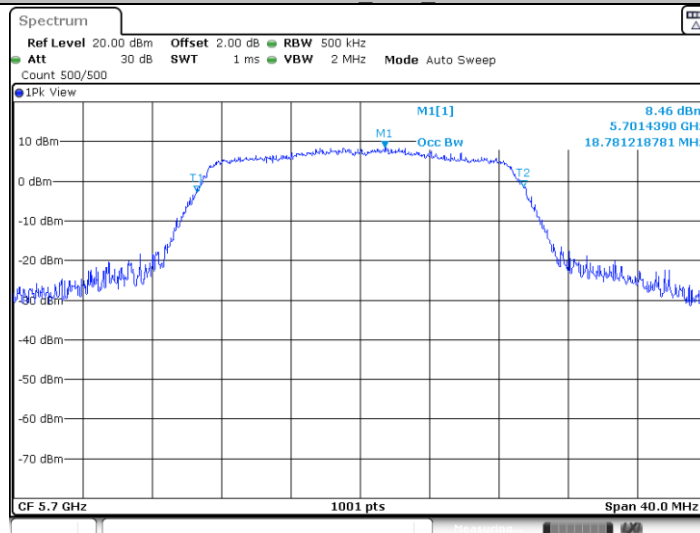
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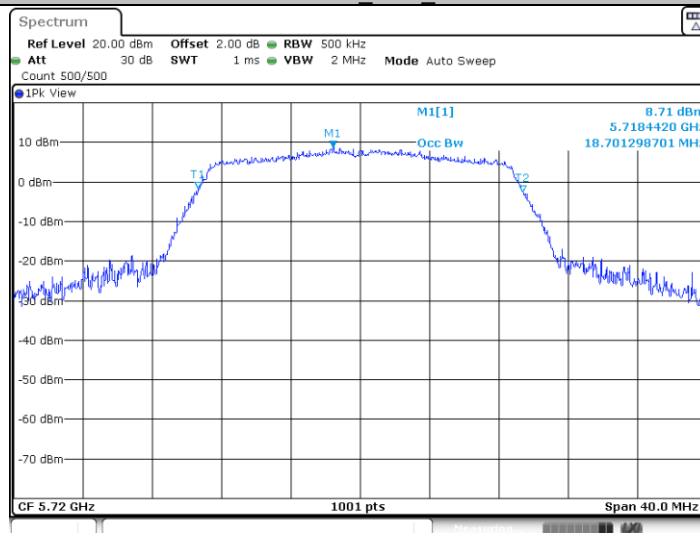
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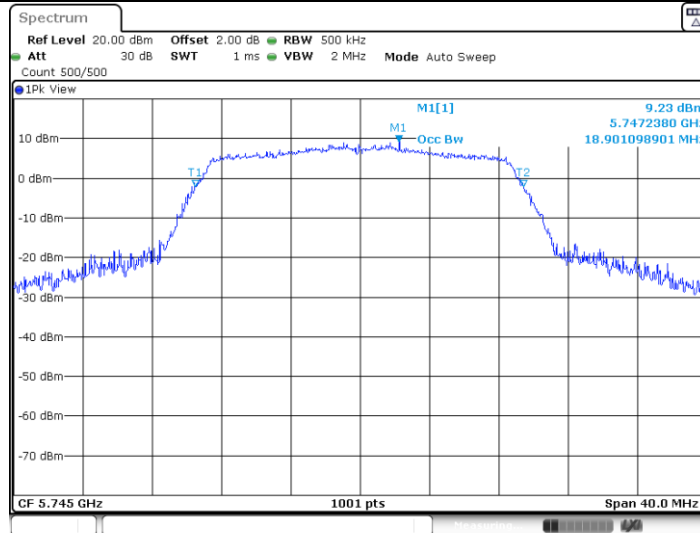
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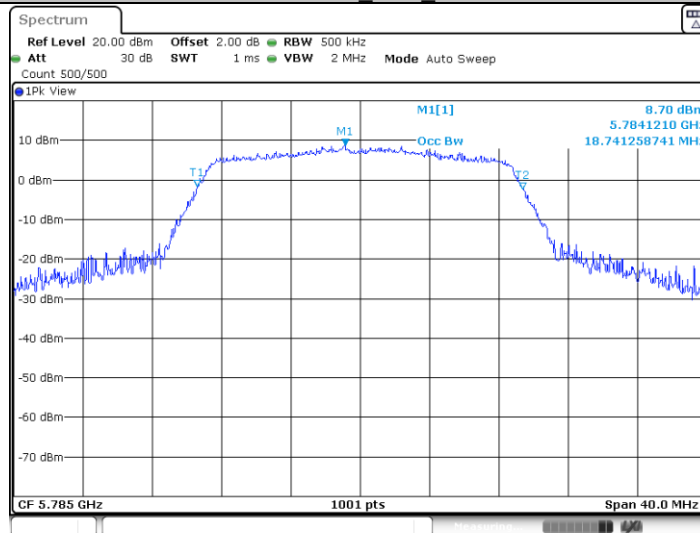
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11N20SISO_Ant1_5745



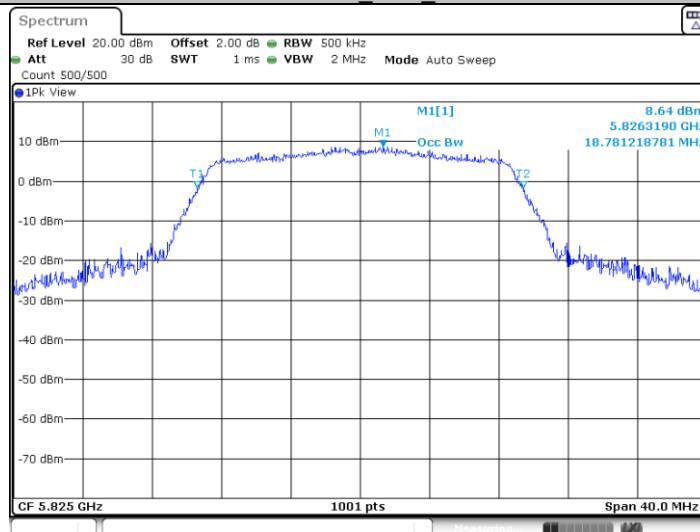
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11N20SISO_Ant1_5785



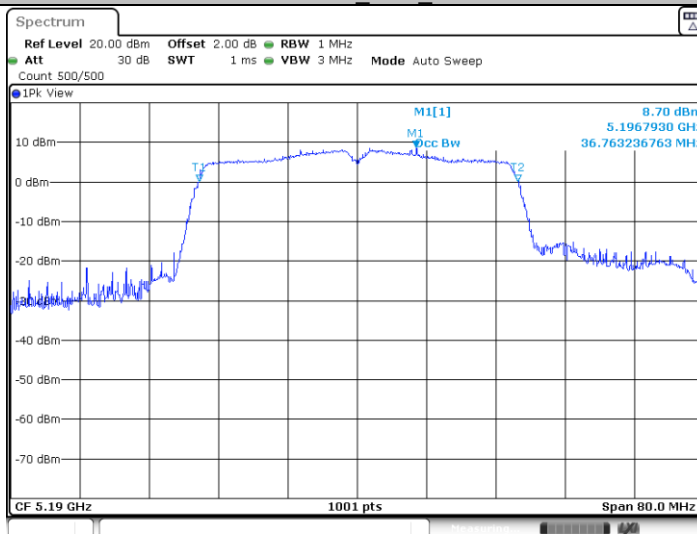
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11N20SISO_Ant1_5825



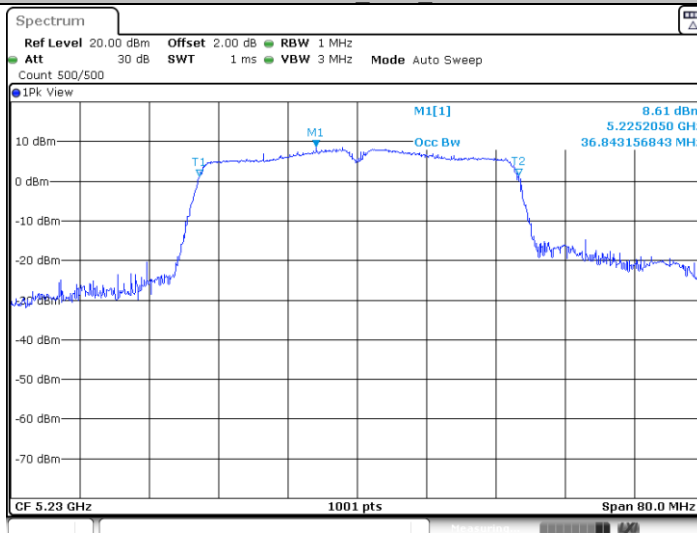
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11N40SISO_Ant1_5190



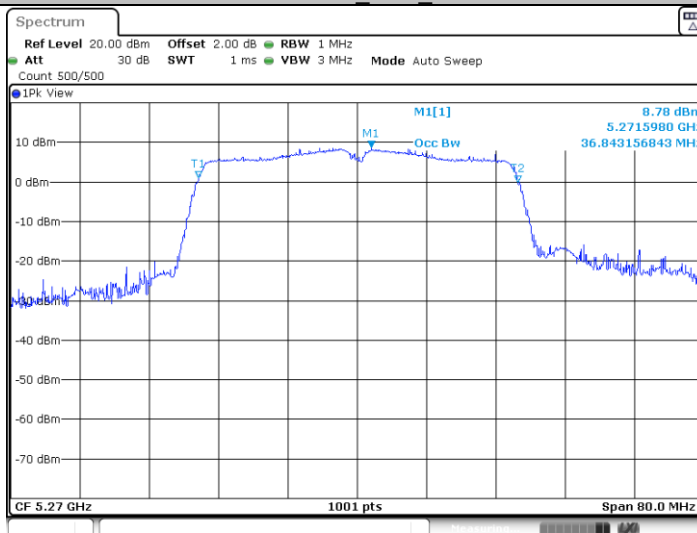
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11N40SISO_Ant1_5230



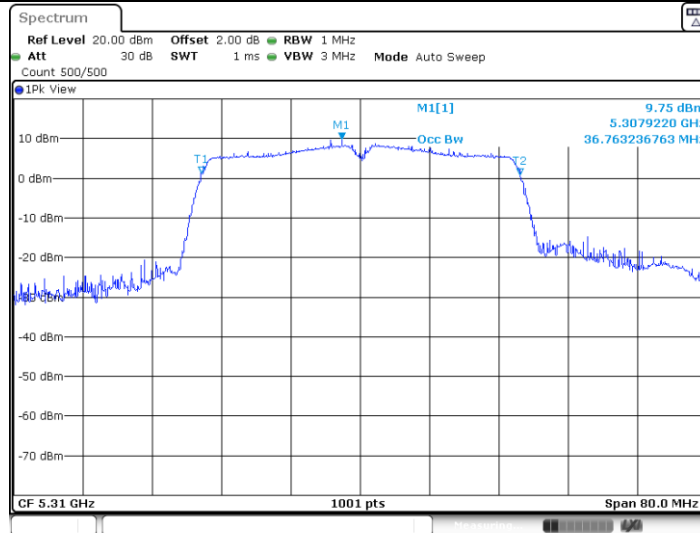
Date: 15.FEB.2022 17:16:50

11N40SISO_Ant1_5270



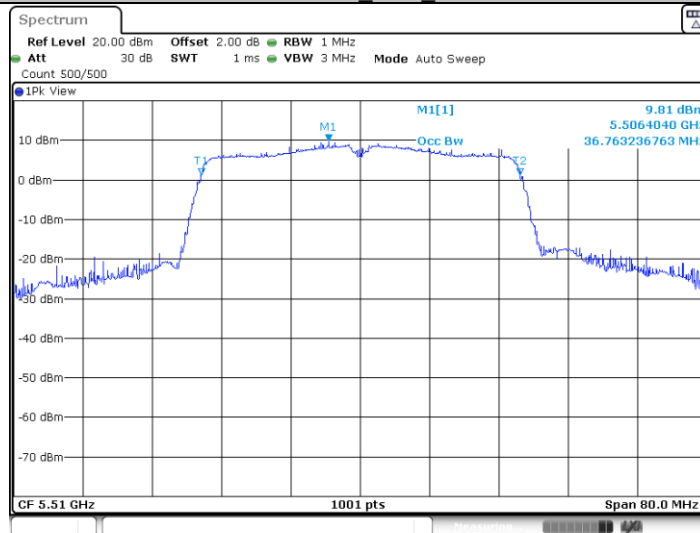
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11N40SISO_Ant1_5310



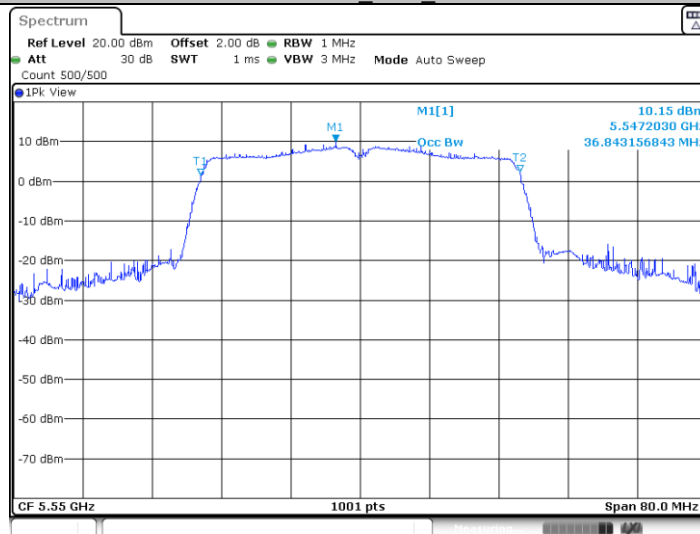
Date: 16.FEB.2022 09:45:15

11N40SISO_Ant1_5510



Date: 16.FEB.2022 09:47:01

11N40SISO_Ant1_5550



Date: 16.FEB.2022 09:48:37