

FCC 5GWALN Test Data

FCC ID : **R66-HBR6303M**

Company: : **Hisense Broadband Multimedia Technologies Co.,Ltd**

EUT : **TV Stick, Smart TV Stick**

Model Number : **HBR6303M**

Reviewed By : **Eric Wang**

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	30.48	5166.44	5196.92	---	---
		5220	23.64	5207.36	5231.00	---	---
		5240	25.96	5228.16	5254.12	---	---
		5260	24.44	5248.32	5272.76	---	---
		5300	31.32	5283.96	5315.28	---	---
		5320	29.52	5303.84	5333.36	---	---
		5500	29.68	5485.32	5515.00	---	---
		5580	26.64	5566.68	5593.32	---	---
		5700	34.40	5681.44	5715.84	---	---
		5745	34.64	5729.28	5763.92	---	---
		5785	39.04	5765.68	5804.72	---	---
		5825	32.20	5806.68	5838.88	---	---
11N20SISO	Ant1	5180	32.68	5165.56	5198.24	---	---
		5220	23.48	5208.04	5231.52	---	---
		5240	20.88	5229.64	5250.52	---	---
		5260	21.92	5249.04	5270.96	---	---
		5300	31.16	5284.80	5315.96	---	---
		5320	29.12	5304.76	5333.88	---	---
		5500	29.44	5485.96	5515.40	---	---
		5580	24.48	5567.48	5591.96	---	---
		5700	34.56	5680.36	5714.92	---	---
		5745	38.00	5726.56	5764.56	---	---
		5785	38.12	5766.16	5804.28	---	---
		5825	32.08	5805.80	5837.88	---	---
11N40SISO	Ant1	5190	63.44	5164.24	5227.68	---	---
		5230	45.28	5209.12	5254.40	---	---
		5270	42.00	5249.20	5291.20	---	---
		5310	55.84	5279.28	5335.12	---	---
		5510	59.12	5482.00	5541.12	---	---
		5550	58.00	5517.04	5575.04	---	---
		5670	74.24	5630.96	5705.20	---	---
		5755	57.92	5733.40	5791.32	---	---
		5795	74.72	5758.20	5832.92	---	---
11AC20SISO	Ant1	5180	32.28	5165.44	5197.72	---	---
		5220	23.84	5208.28	5232.12	---	---
		5240	20.72	5229.56	5250.28	---	---
		5260	21.72	5249.12	5270.84	---	---

		5300	35.56	5282.40	5317.96	---	---
		5320	31.48	5303.48	5334.96	---	---
		5500	30.32	5485.44	5515.76	---	---
		5580	27.52	5565.32	5592.84	---	---
		5700	39.44	5680.52	5719.96	---	---
		5745	39.84	5725.04	5764.88	---	---
		5785	39.88	5765.04	5804.92	---	---
		5825	39.68	5805.08	5844.76	---	---
11AC40SISO	Ant1	5190	57.68	5165.60	5223.28	---	---
		5230	40.48	5209.84	5250.32	---	---
		5270	40.72	5249.60	5290.32	---	---
		5310	51.84	5282.96	5334.80	---	---
		5510	50.32	5485.92	5536.24	---	---
		5550	44.32	5526.88	5571.20	---	---
		5670	61.68	5636.40	5698.08	---	---
		5755	53.92	5734.20	5788.12	---	---
		5795	69.28	5762.12	5831.40	---	---
11AC80SISO	Ant1	5210	122.24	5163.12	5285.36	---	---
		5290	106.08	5230.96	5337.04	---	---
		5530	108.16	5482.16	5590.32	---	---
		5775	131.36	5707.16	5838.52	---	---
11AC160SISO	Ant1	5250	169.92	5168.40	5338.32	---	---
		5250_UNII-1	81.6	5168.40	5250	---	---
		5250_UNII-2A	88.32	5250	5338.32	---	---
		5570	176.96	5479.12	5656.08	---	---
11AX20SISO	Ant1	5180	32.16	5165.80	5197.96	---	---
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		5240	20.56	5229.40	5249.96	---	---
		5260	22.12	5248.88	5271.00	---	---
		5300	33.96	5283.24	5317.20	---	---
		5320	29.24	5304.28	5333.52	---	---
		5500	30.84	5485.24	5516.08	---	---
		5580	26.24	5565.24	5591.48	---	---
		5700	36.20	5680.16	5716.36	---	---
		5745	39.92	5725.04	5764.96	---	---
		5785	39.92	5765.04	5804.96	---	---
		5825	39.84	5805.04	5844.88	---	---
11AX40SISO	Ant1	5190	50.88	5165.84	5216.72	---	---
		5230	39.84	5210.08	5249.92	---	---
		5270	39.92	5250.00	5289.92	---	---
		5310	54.08	5281.12	5335.20	---	---

		5510	47.76	5487.12	5534.88	---	---
		5550	41.20	5528.64	5569.84	---	---
		5670	66.40	5632.64	5699.04	---	---
		5755	52.16	5733.72	5785.88	---	---
		5795	66.72	5761.08	5827.80	---	---
11AX80SISO	Ant1	5210	101.76	5167.12	5268.88	---	---
		5290	93.76	5241.04	5334.80	---	---
		5530	95.84	5485.84	5581.68	---	---
		5775	124.96	5706.84	5831.80	---	---
11AX160SISO	Ant1	5250	167.36	5168.40	5335.76	---	---
		5250_UNII-1	81.6	5168.40	5250	---	---
		5250_UNII-2A	85.76	5250	5335.76	---	---
		5570	168.00	5485.84	5653.84	---	---

11A_Ant1_5180

Ref 20 dBm Att 30 dB SWT 20 ms Delta 3 [T1] -0.53 dB VBW 1 MHz 30.48000000 MHz

20 Offset 12 2 dB

Marker 1 [T1] -2.87 dBm 3.16640000 GHz

Marker 2 [T1] -0.85 dBm 3.19440000 GHz

1 dB VBW

SWP 100 cf 100

Center 5.18 GHz 4 MHz/ Span 40 MHz

Date: 27.SEP.2024 17:25:40

11A_Ant1_5220

Ref 20 dBm Att 30 dB SWT 20 ms Delta 3 [T1] 1.30 dB VBW 1 MHz 23.64000000 MHz

20 Offset 12 3 dB

Marker 1 [T1] -2.07 dBm 5.20736000 GHz

Marker 2 [T1] -0.63 dBm 5.23160000 GHz

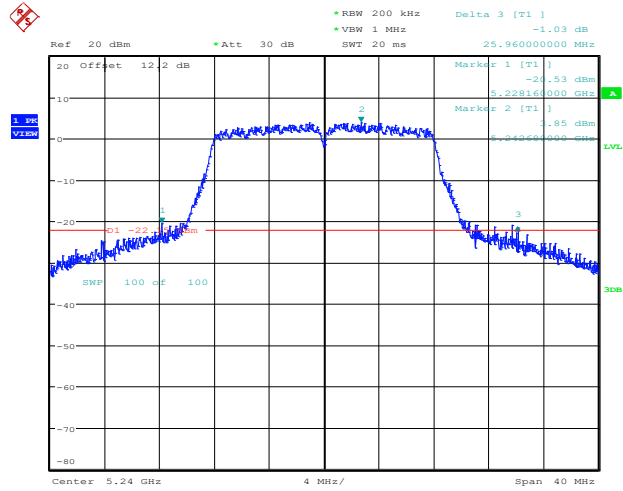
1 dB VBW

SWP 100 cf 100

Center 5.22 GHz 4 MHz/ Span 40 MHz

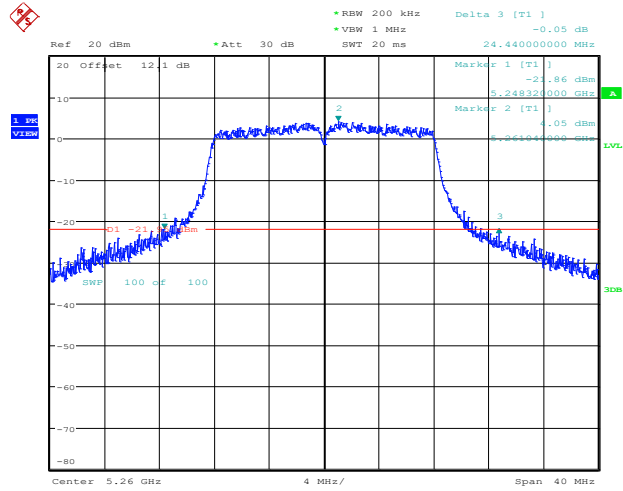
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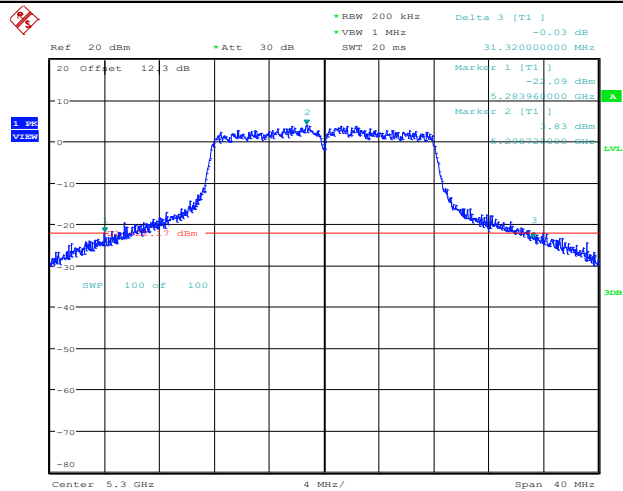
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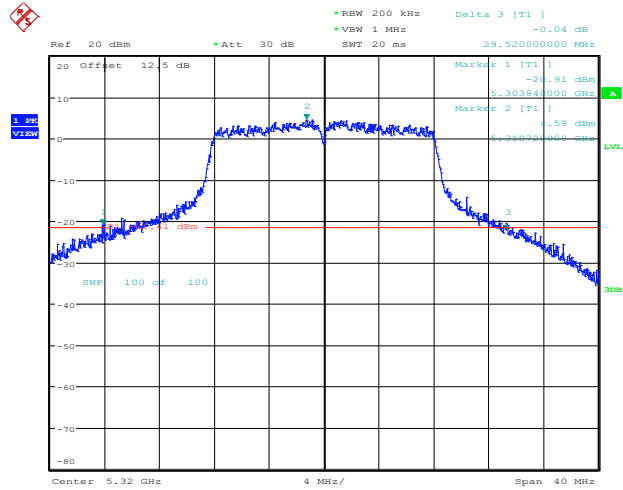
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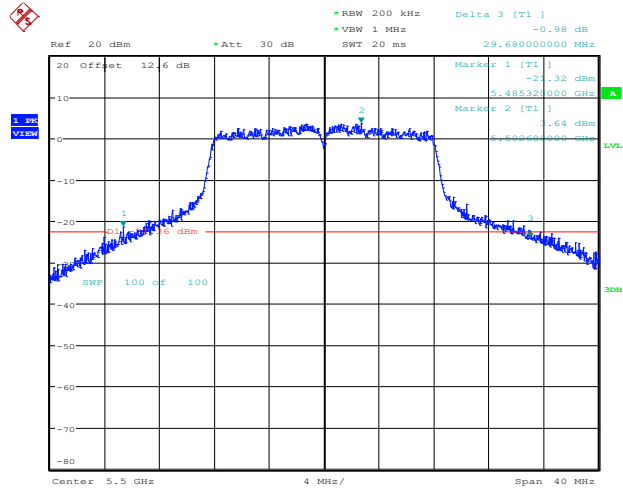
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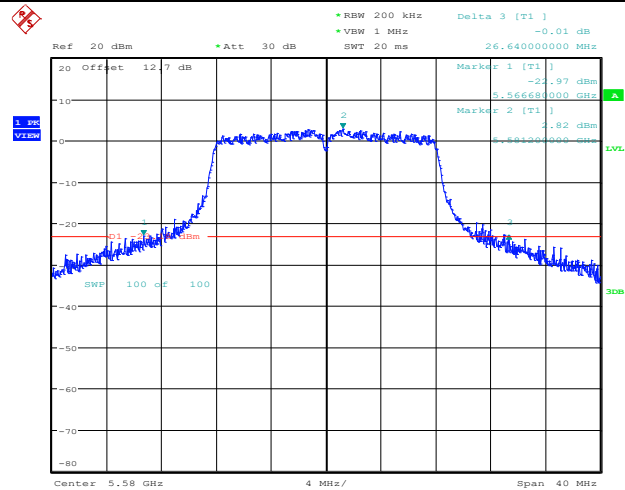
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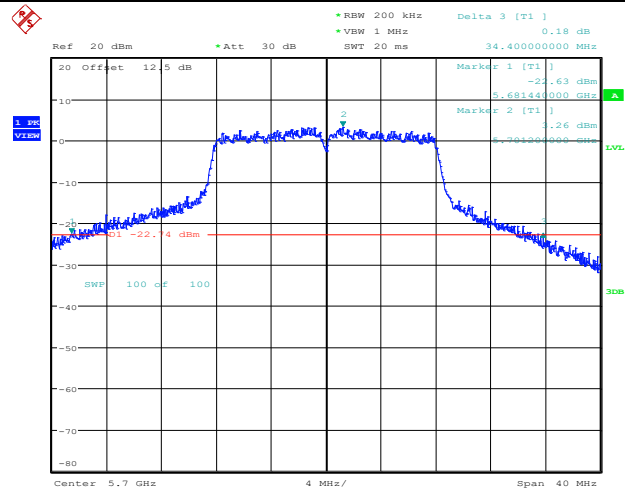
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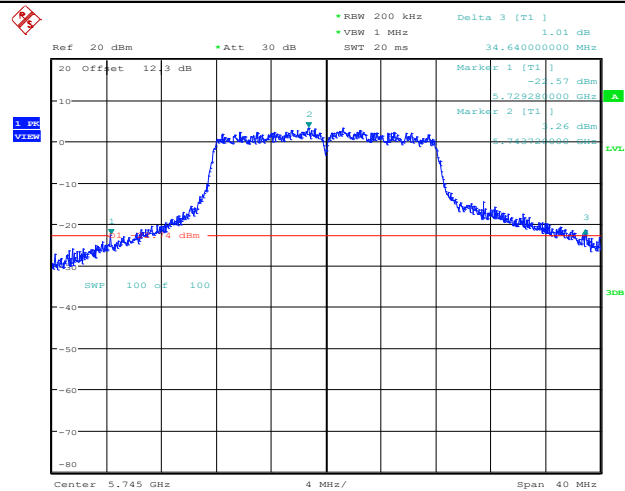
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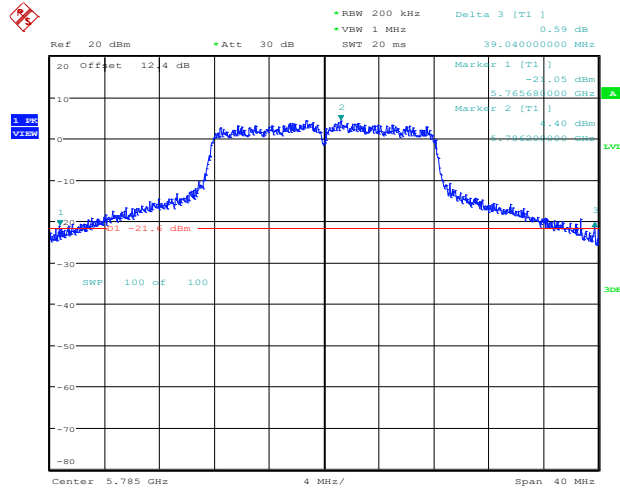
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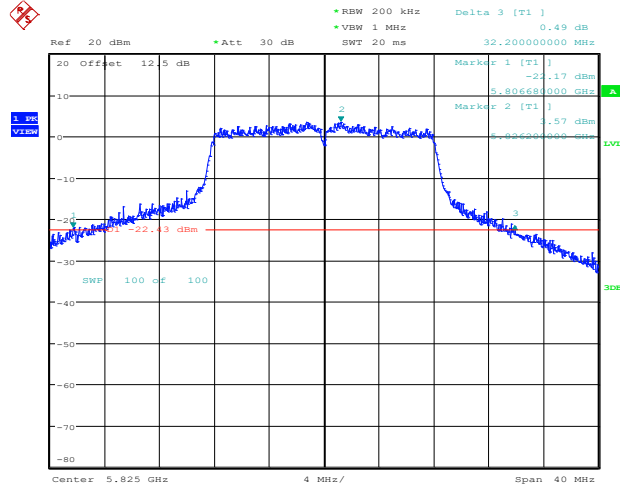
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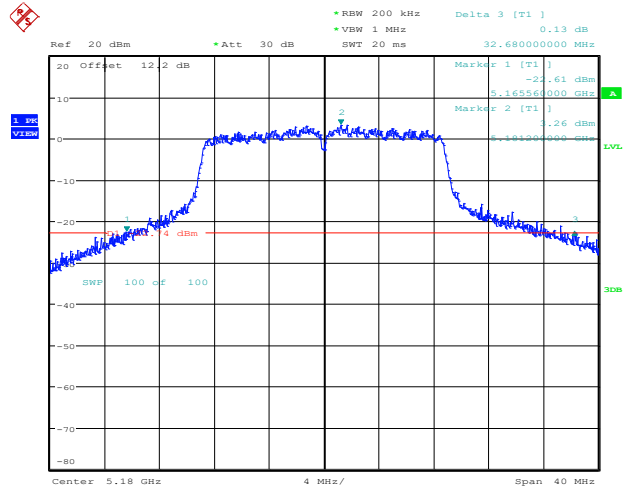
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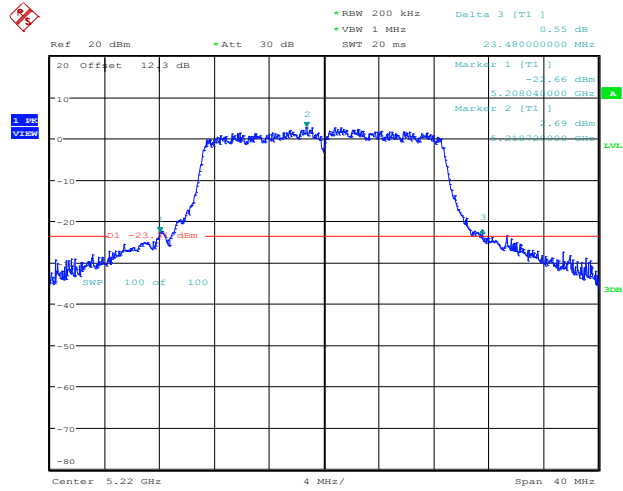
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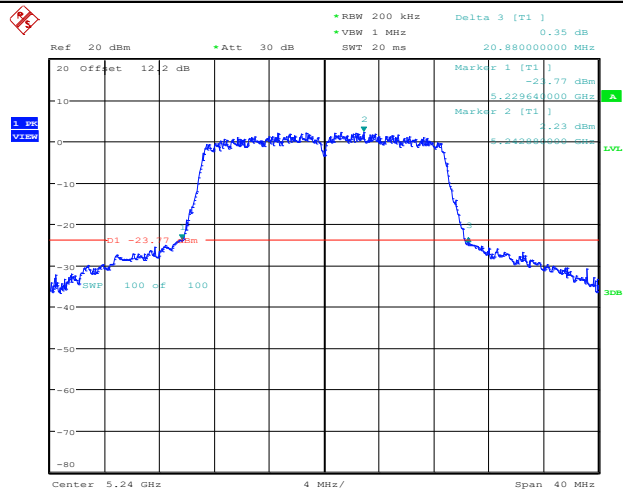
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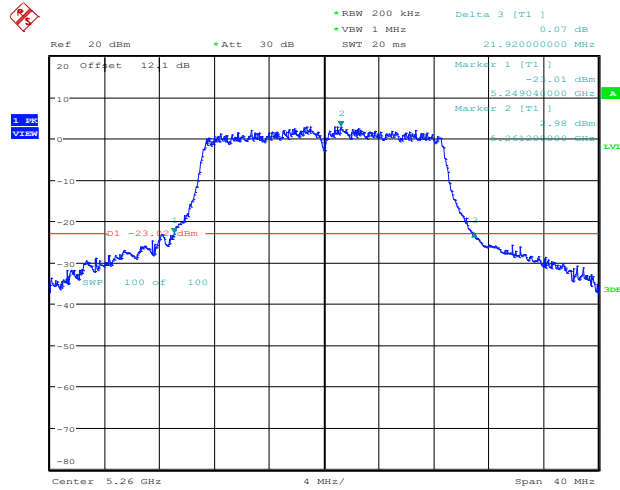
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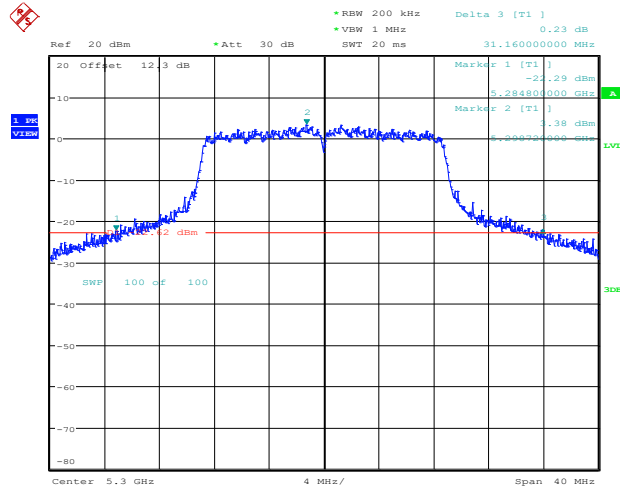
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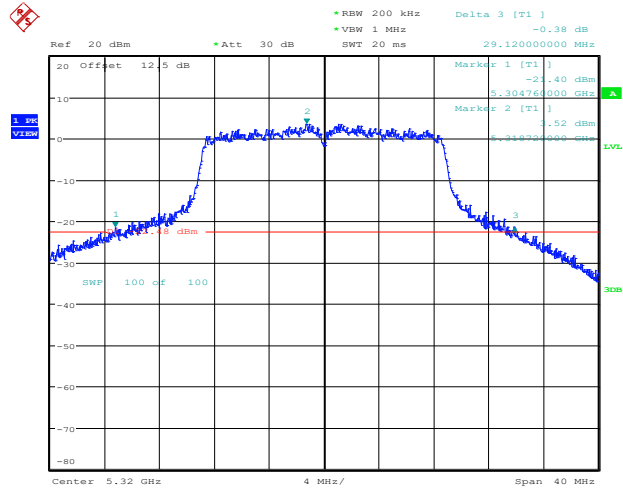
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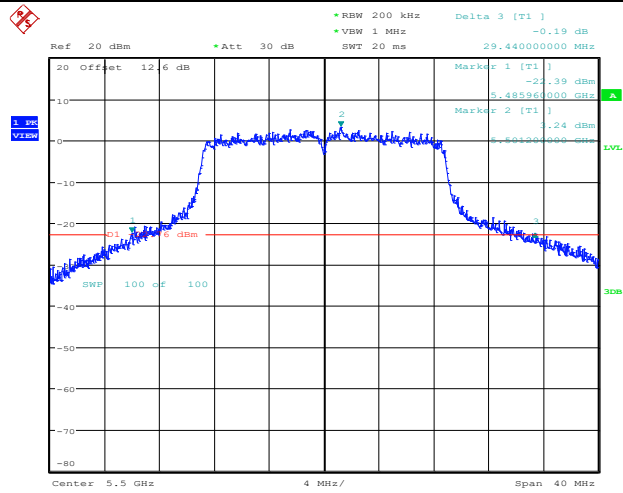
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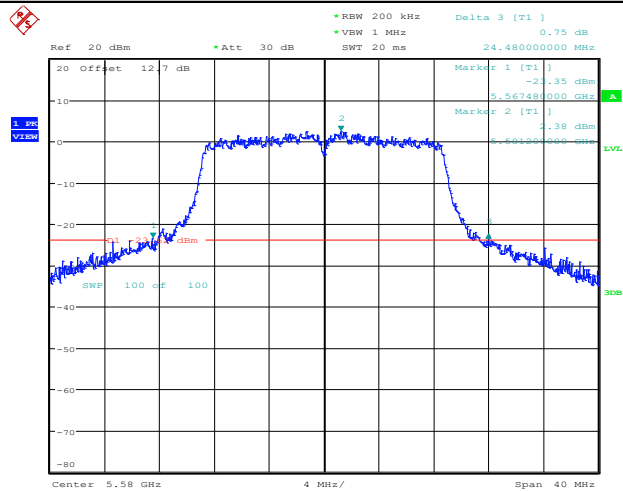
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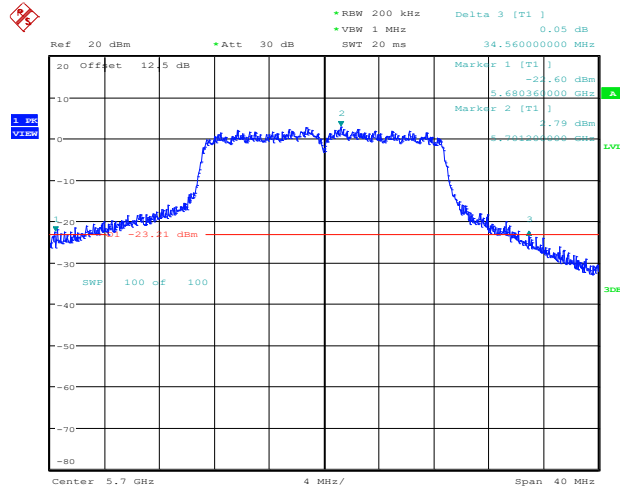
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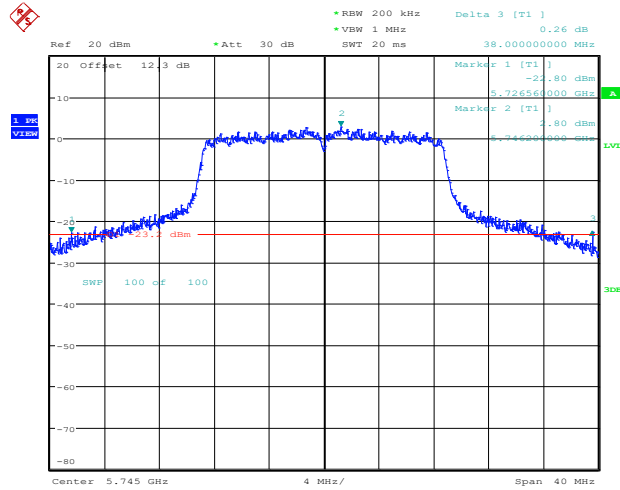
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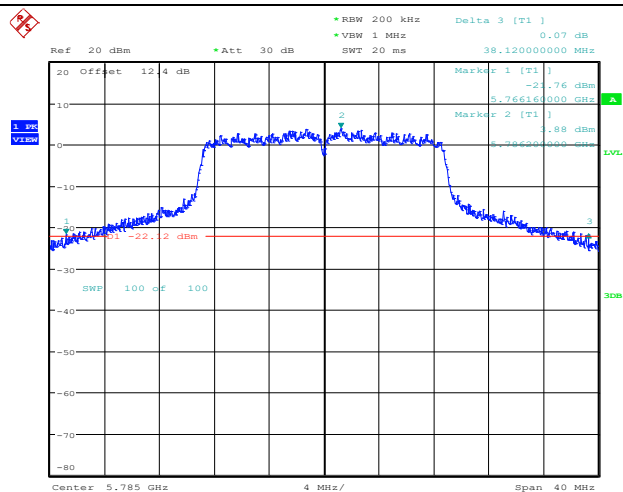
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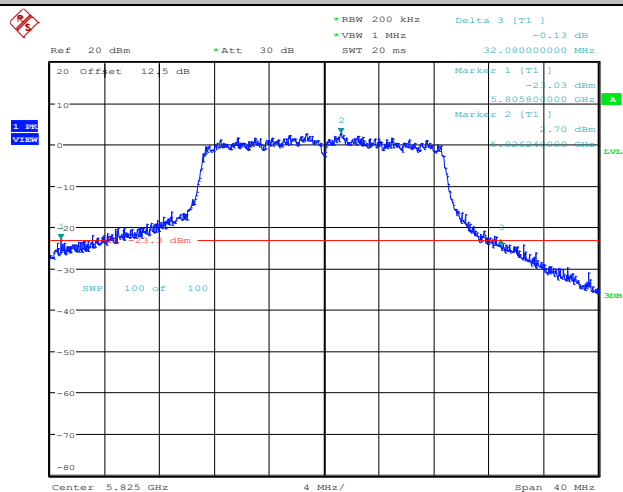
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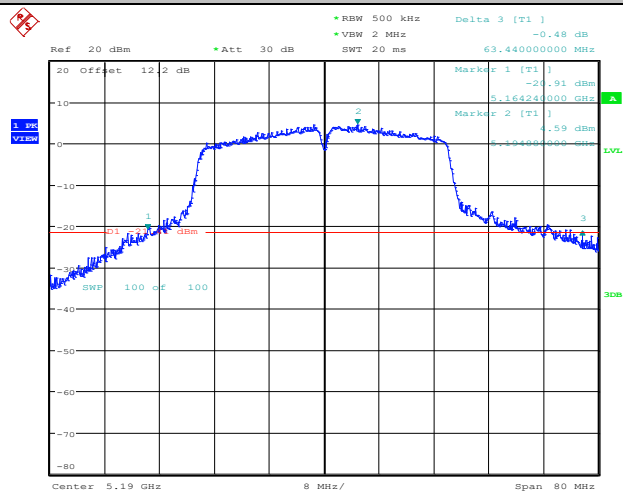
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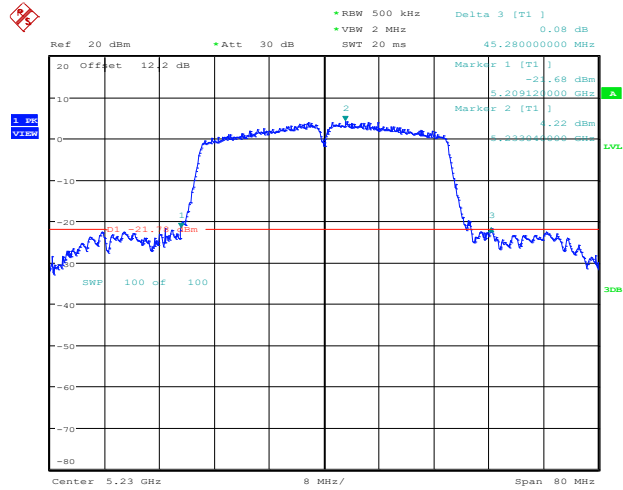
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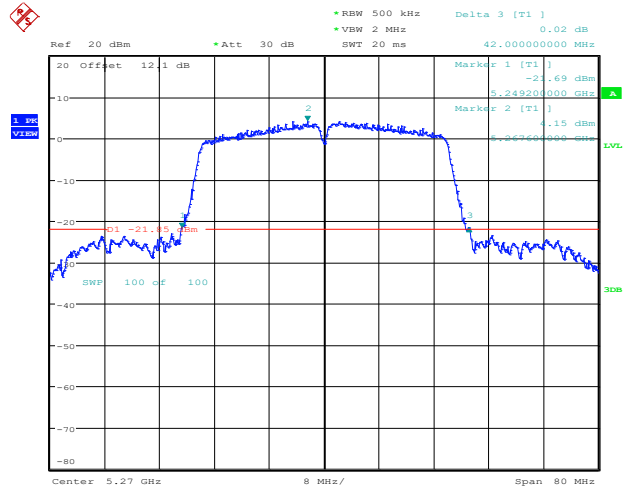
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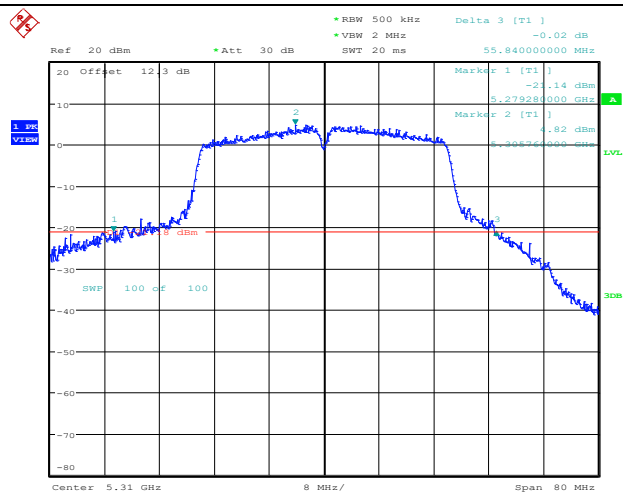
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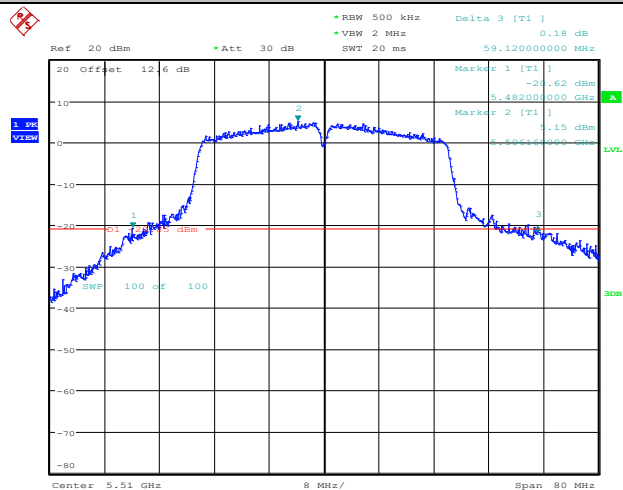
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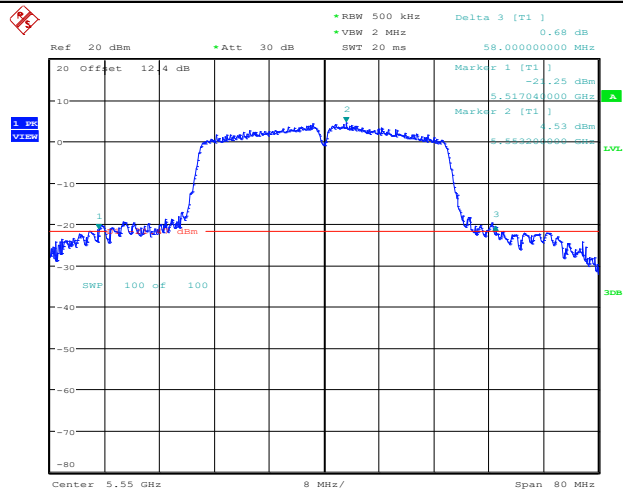
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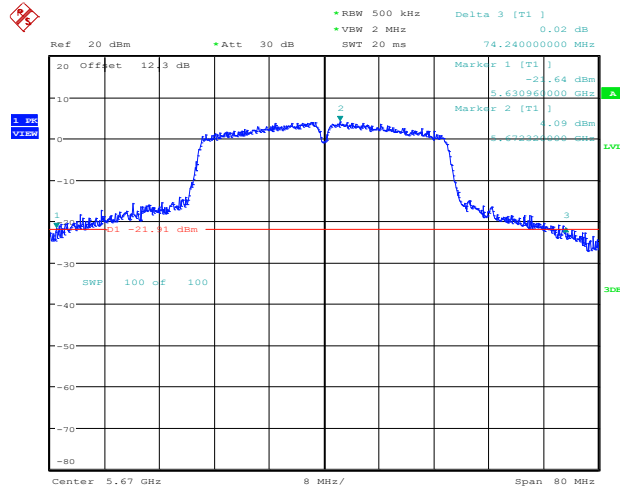
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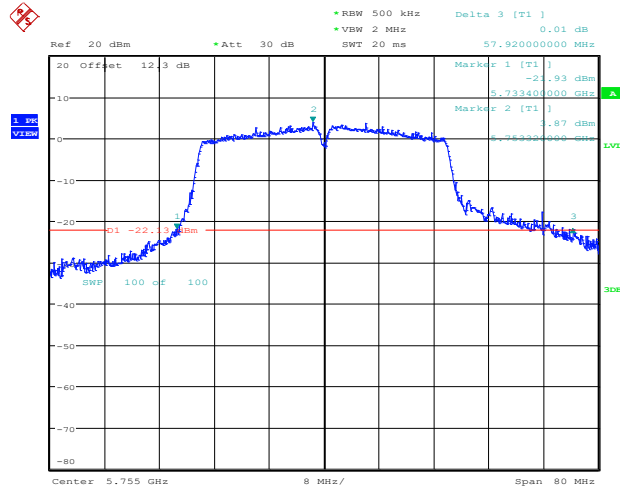
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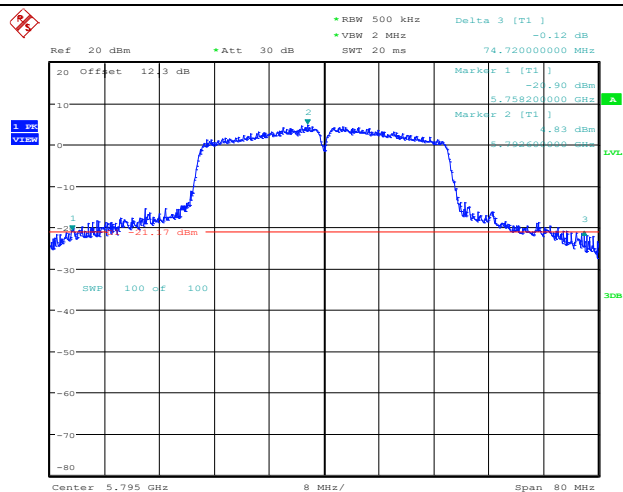
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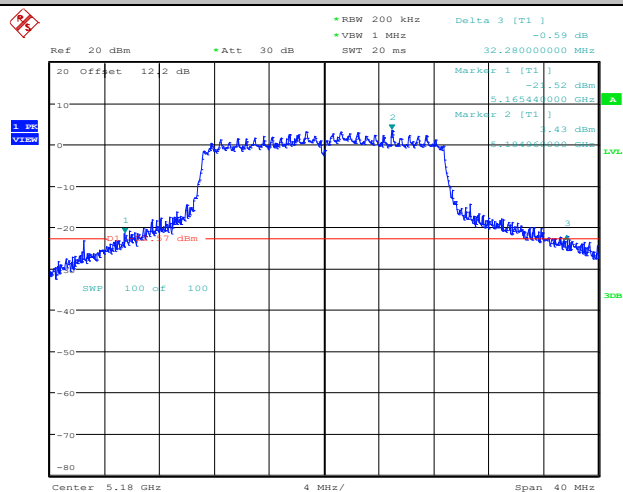
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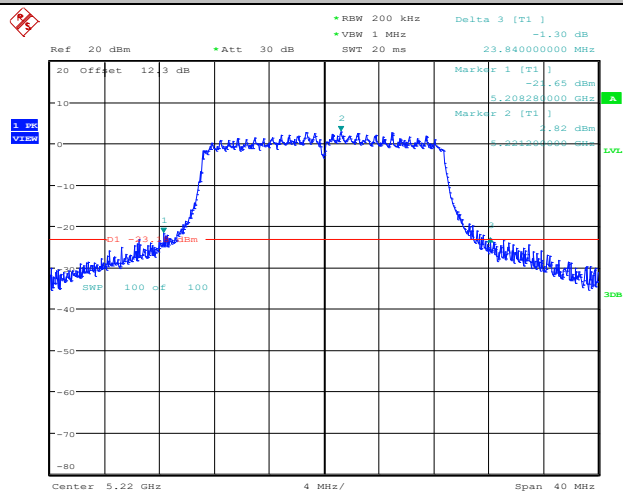
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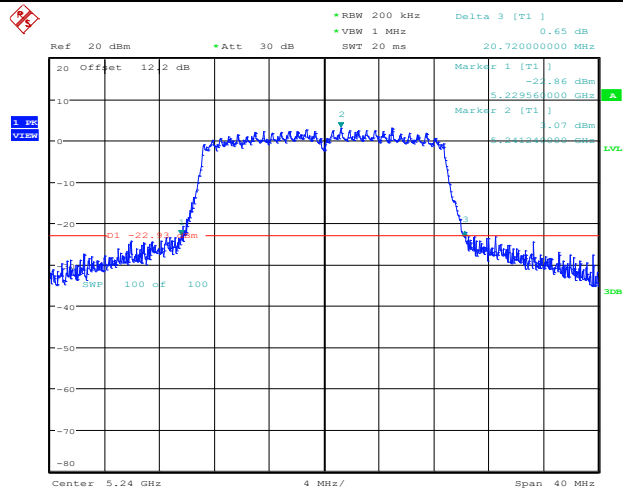
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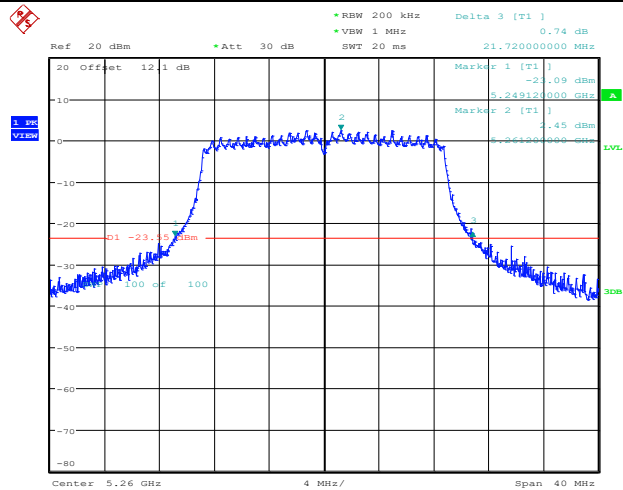
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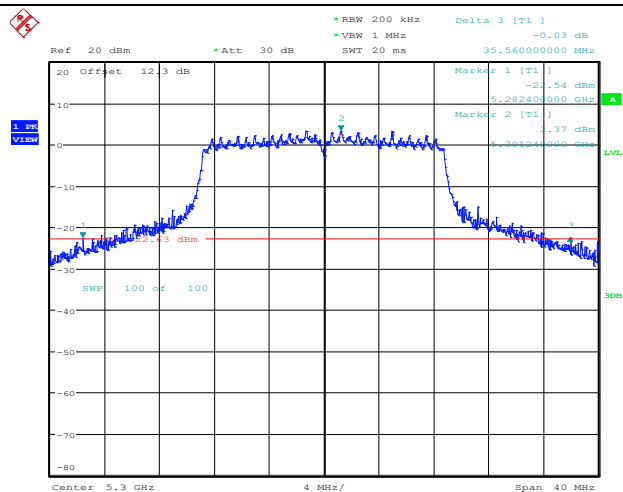
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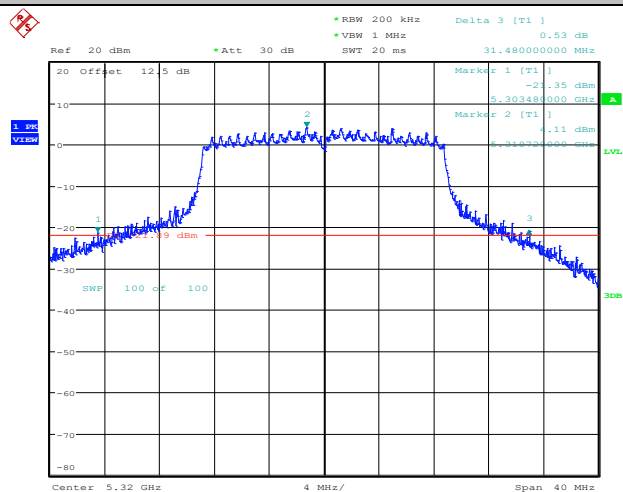
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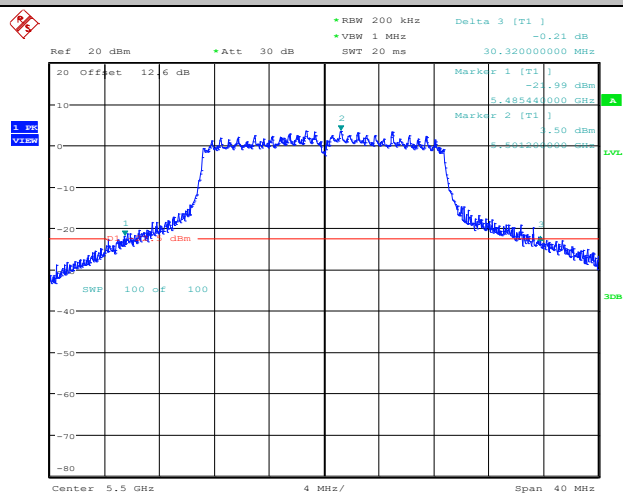
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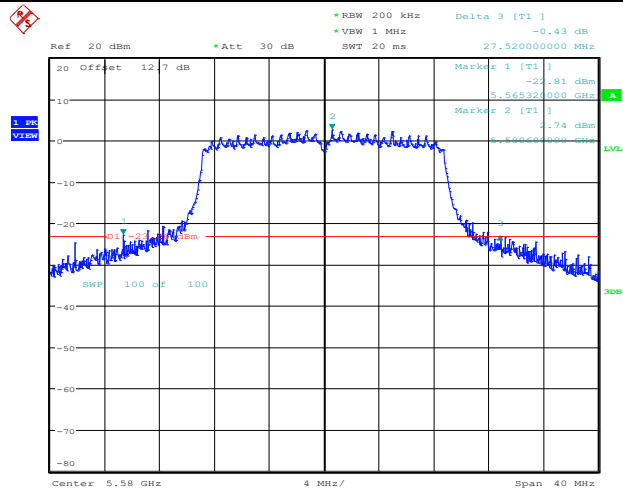
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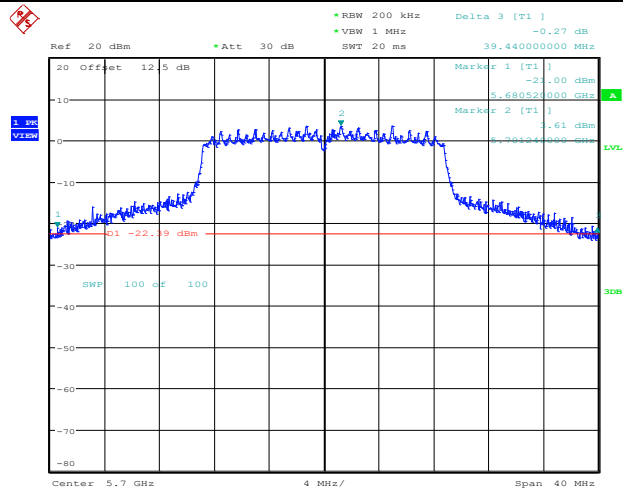
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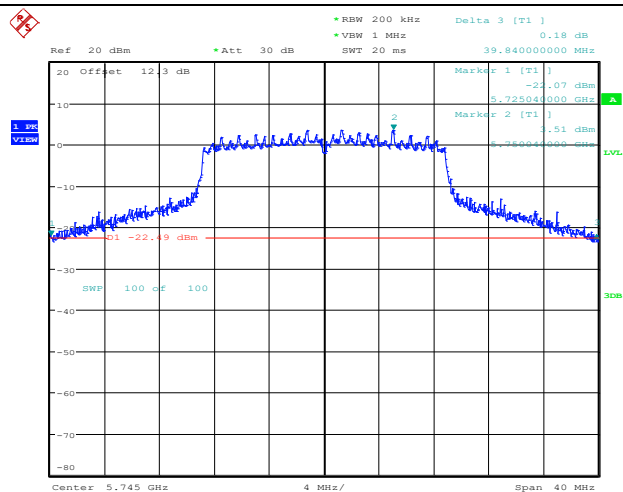
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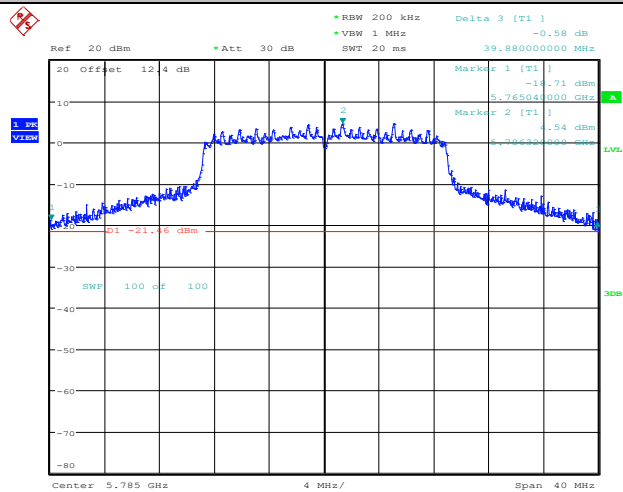
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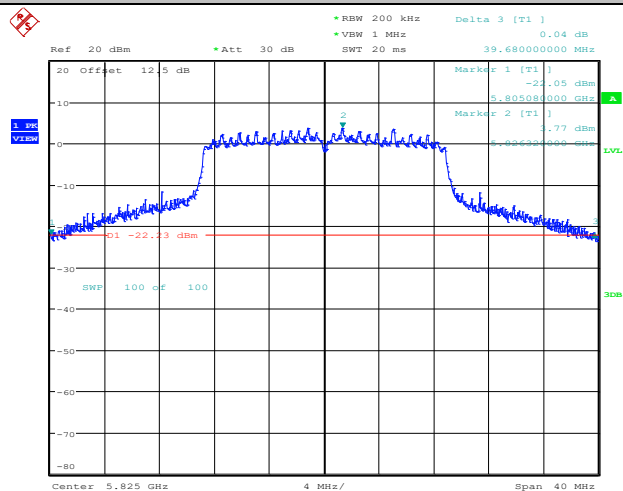
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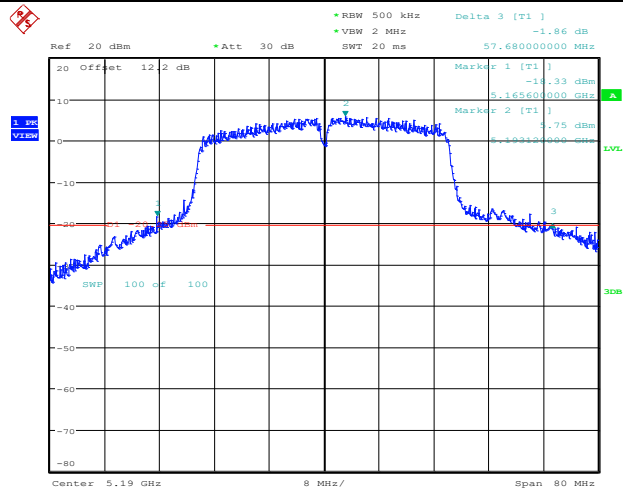
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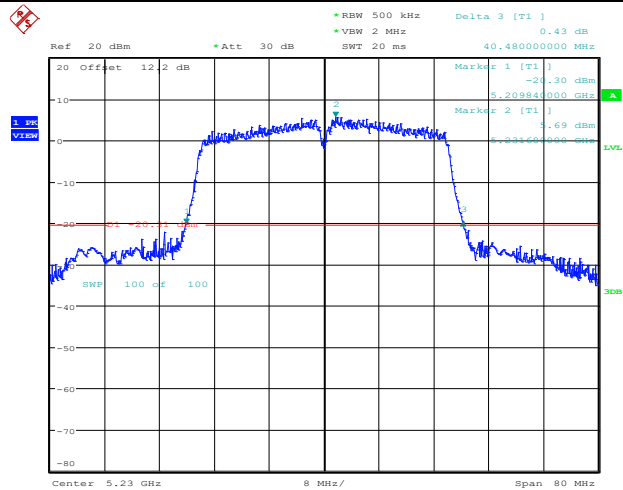
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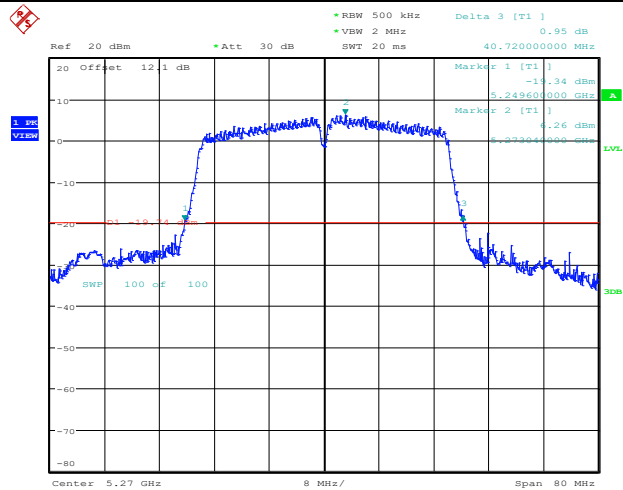
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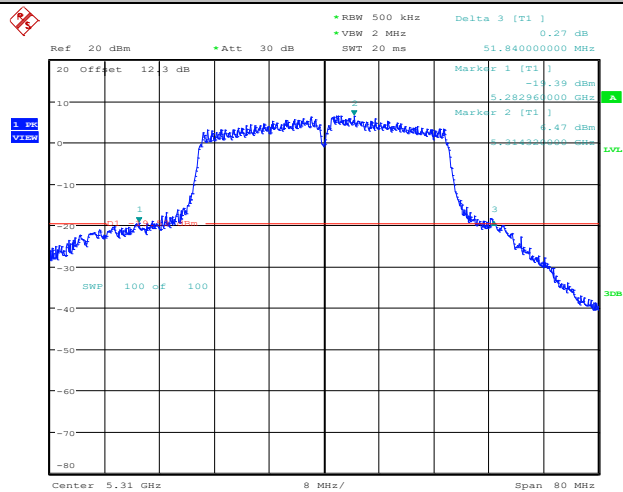
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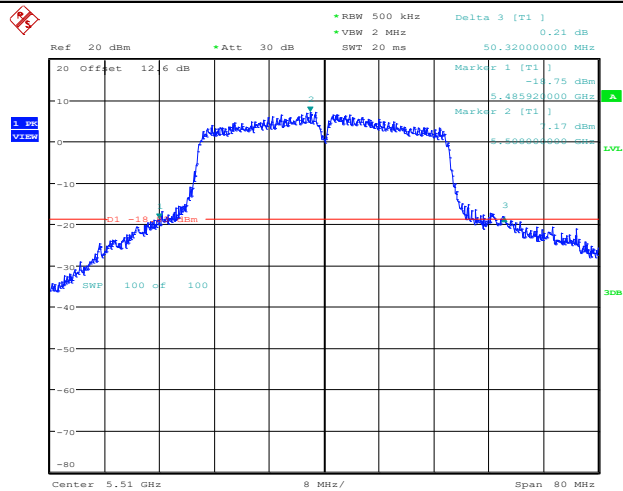
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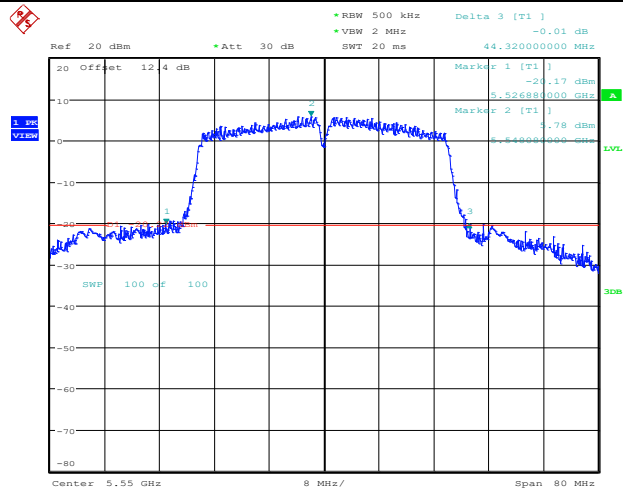
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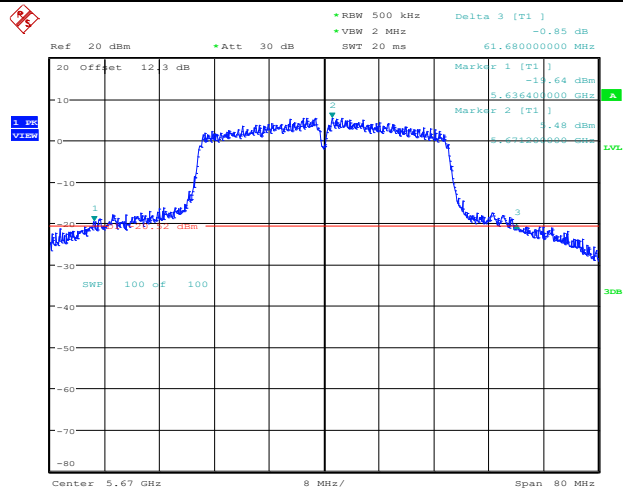
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11AC40SISO_Ant1_5550



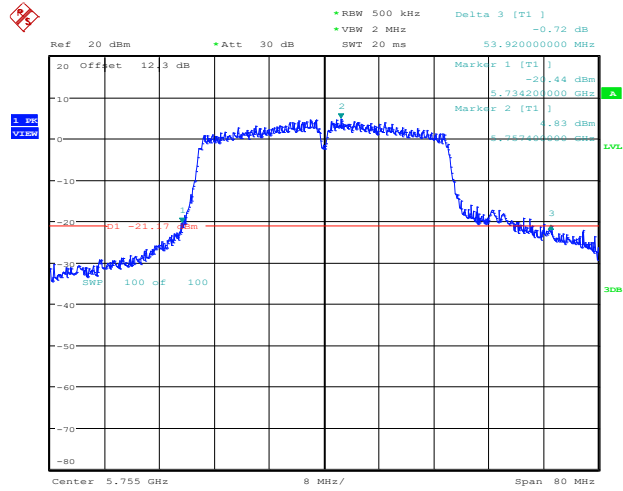
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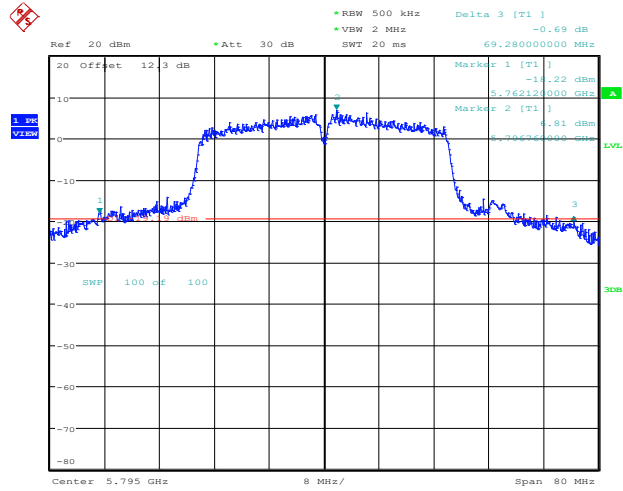
Date: 27.SEP.2024 20:06:15

11AC40SISO_Ant1_5755



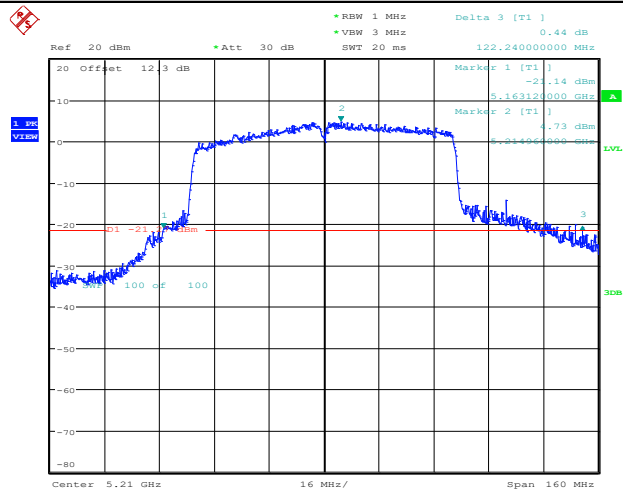
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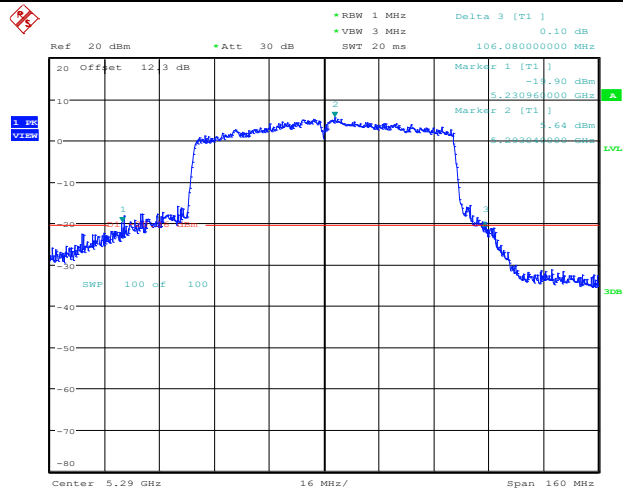
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11AC80SISO_Ant1_5210



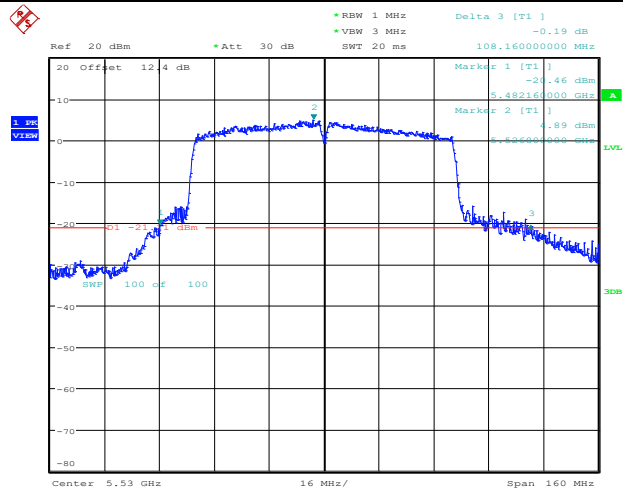
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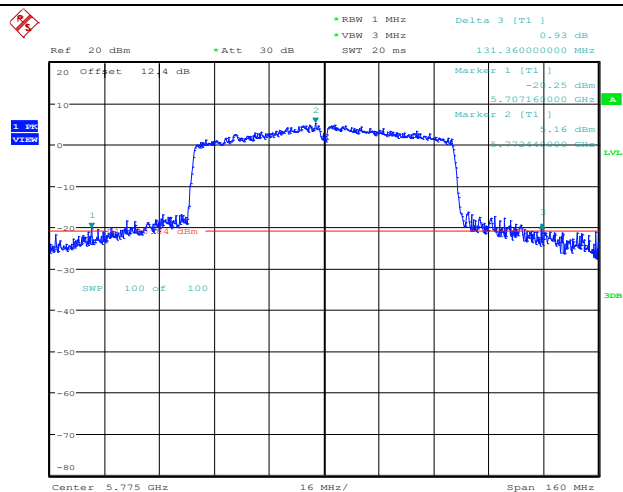
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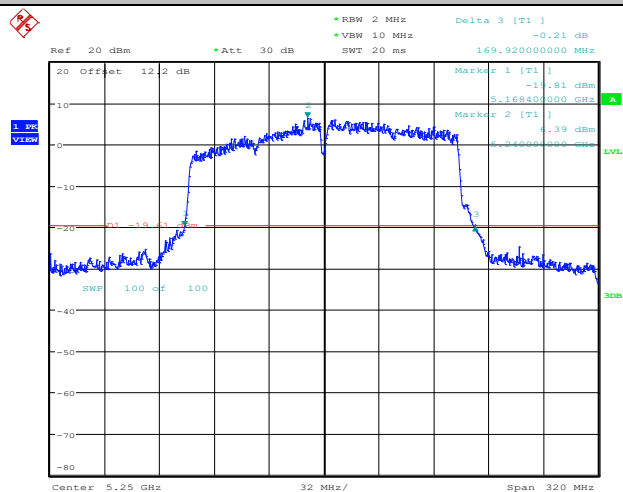
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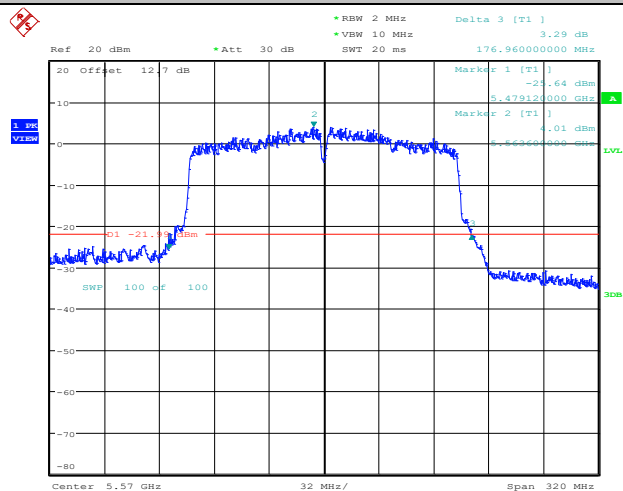
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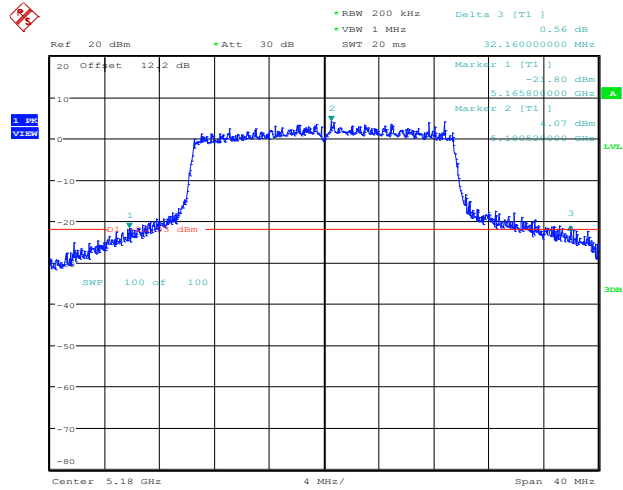
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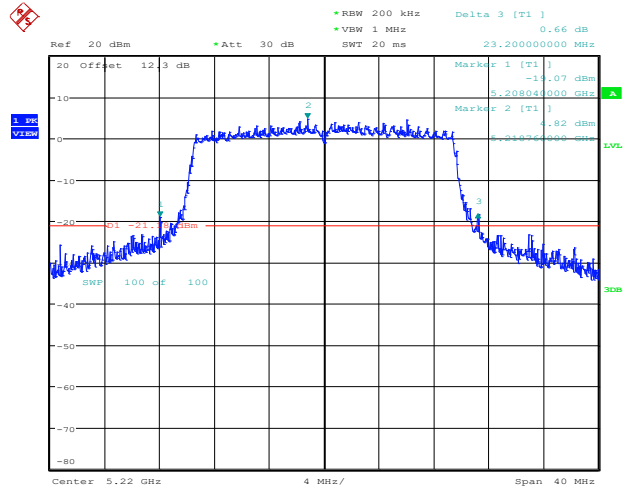
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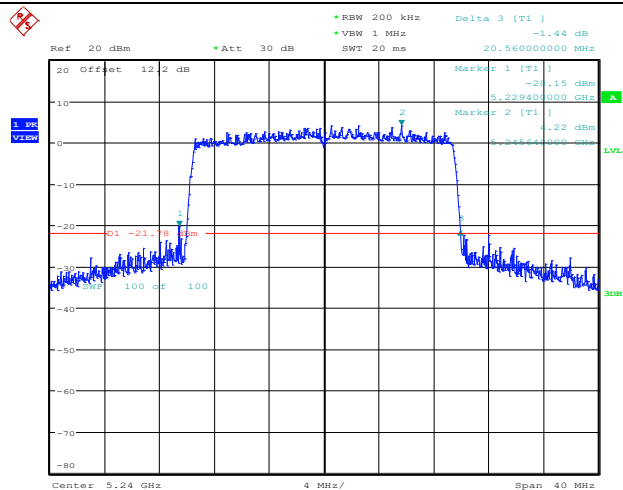
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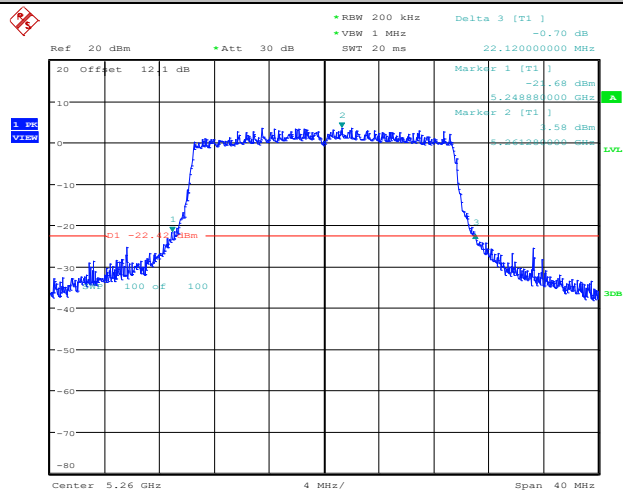
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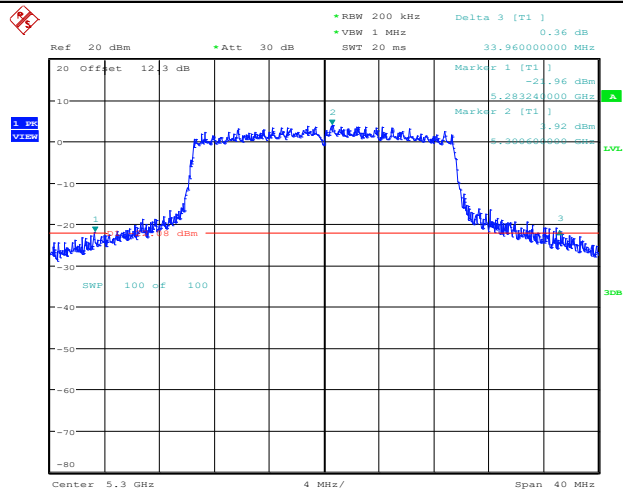
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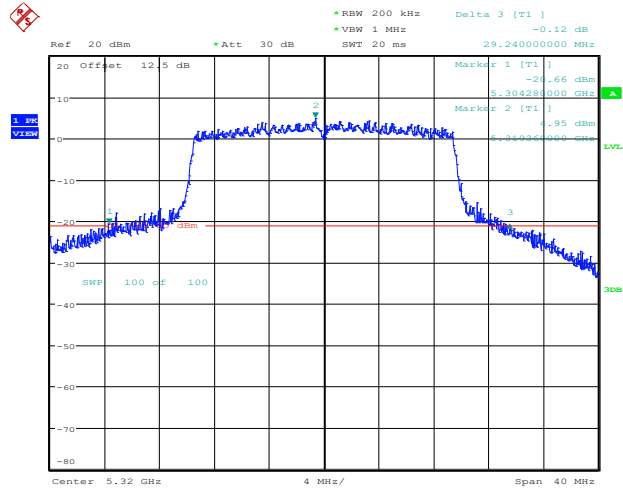
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11AX20SISO_Ant1_5300



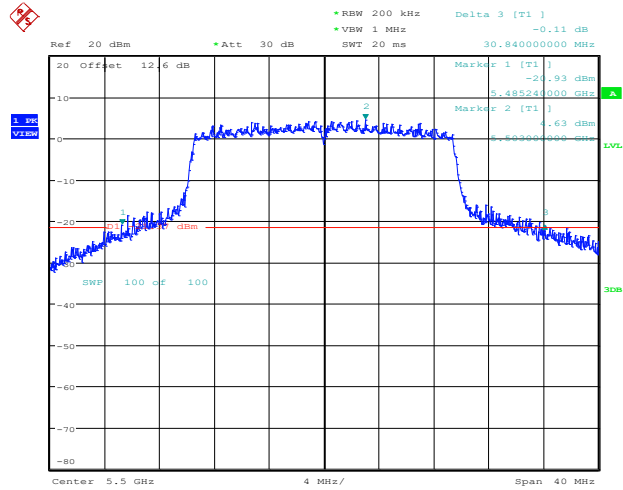
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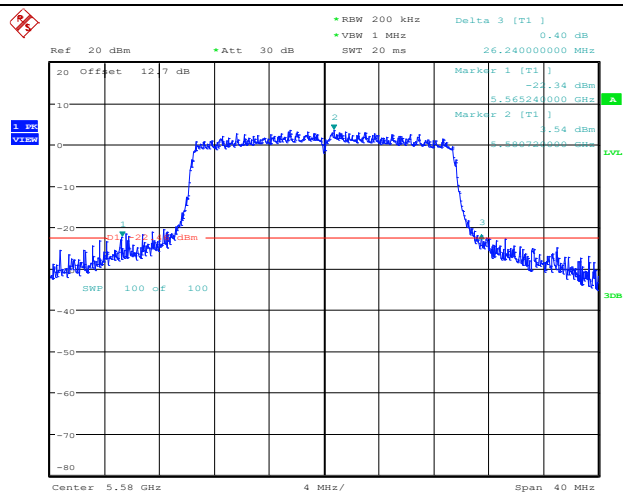
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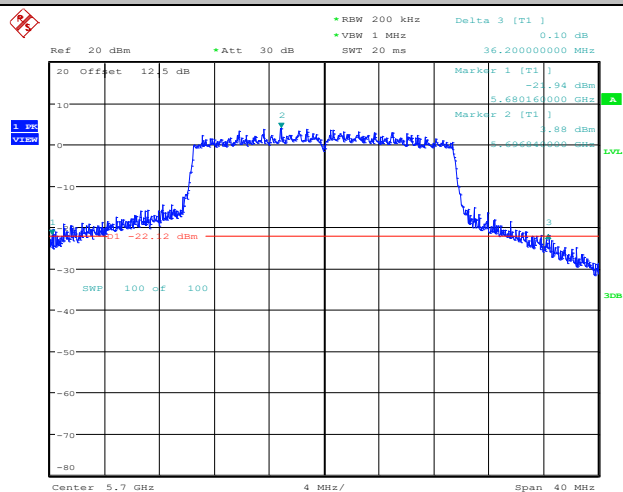


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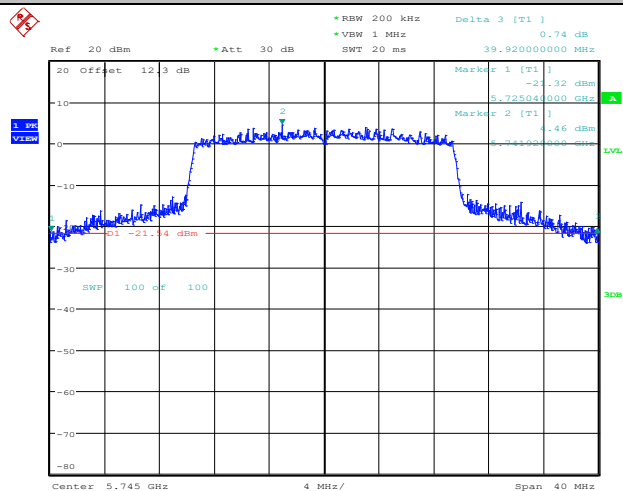
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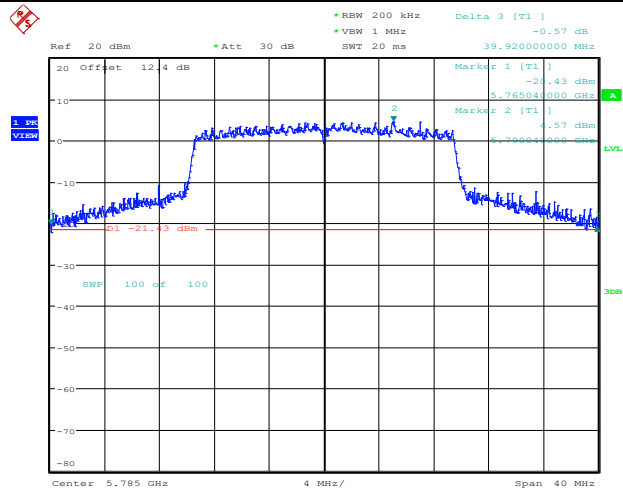
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11AX20SISO_Ant1_5745

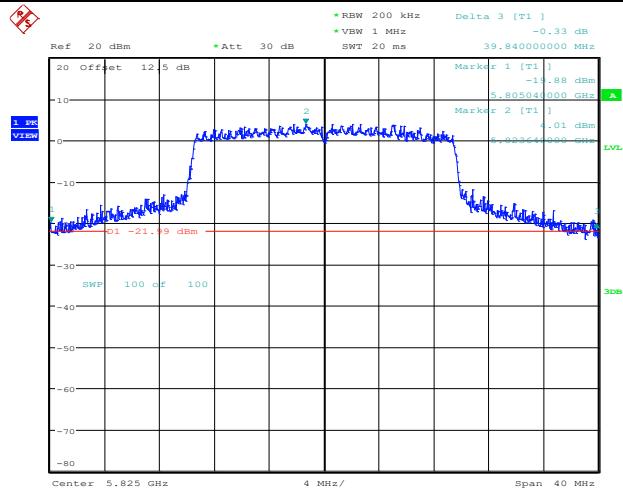


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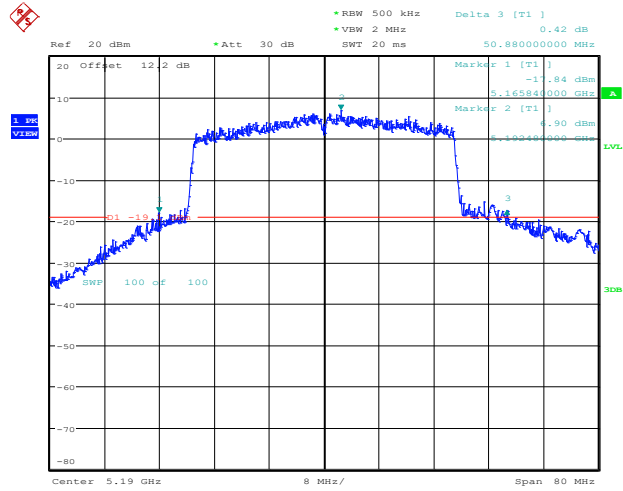
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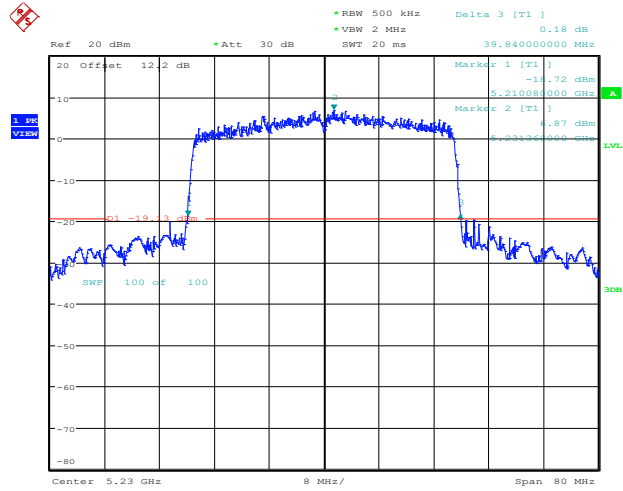
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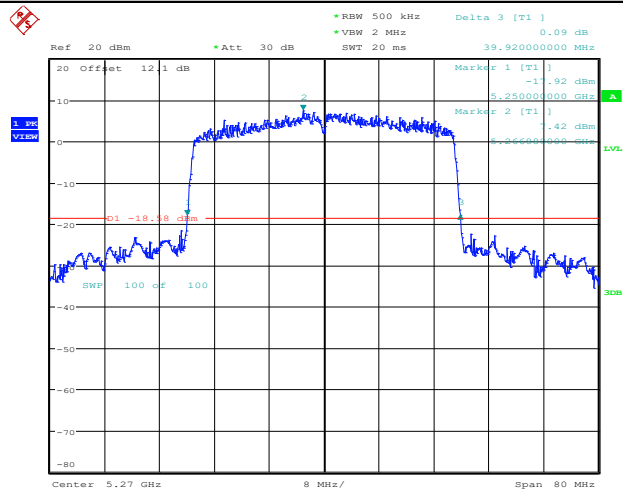
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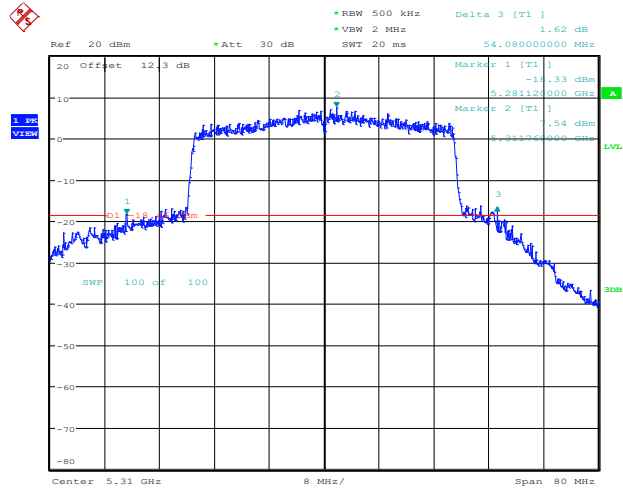
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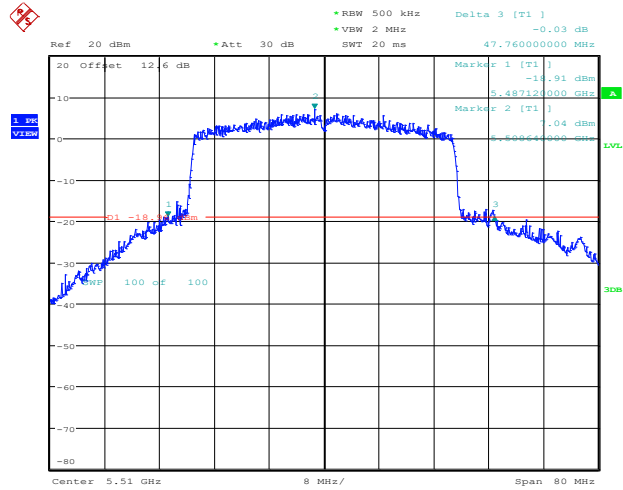
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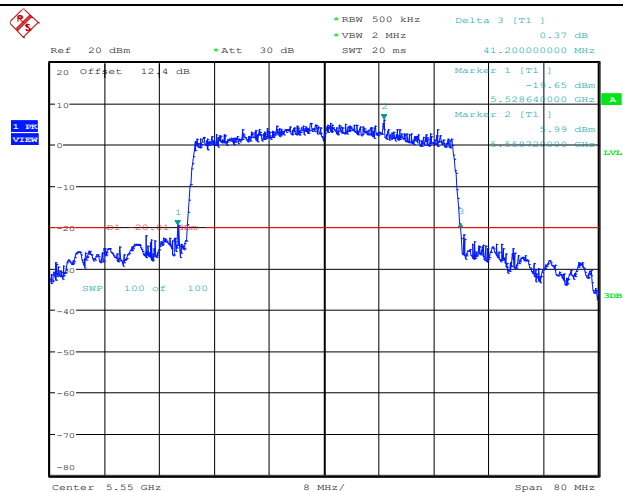
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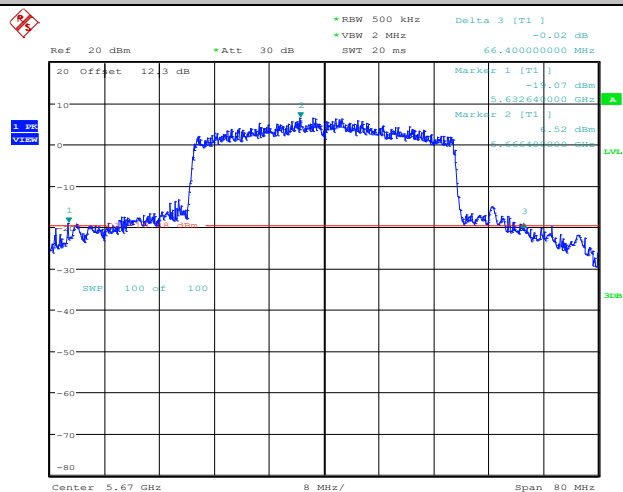
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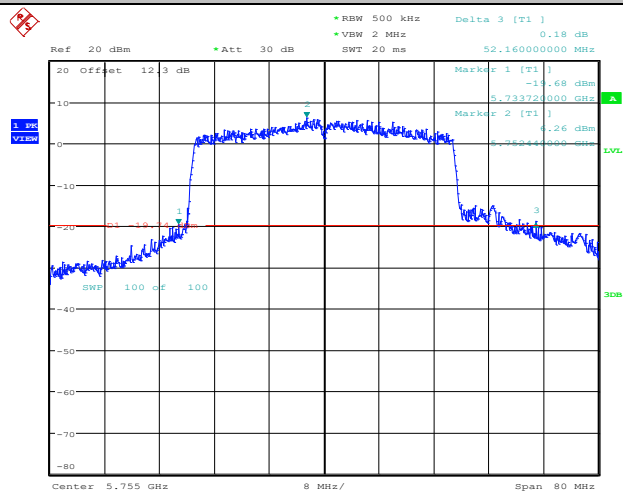
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11AX40SISO_Ant1_5670



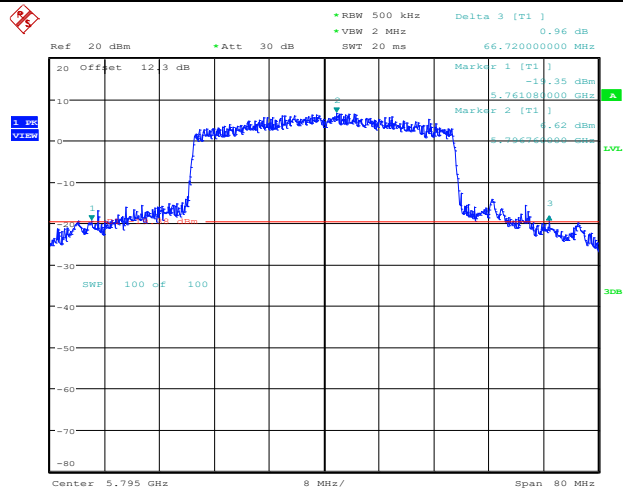
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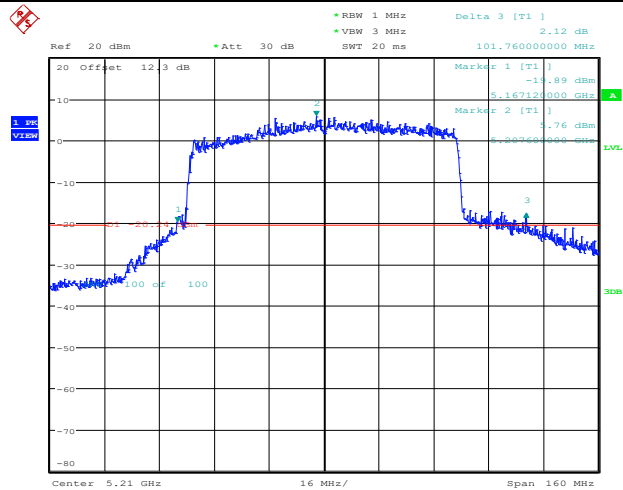
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11AX40SISO_Ant1_5795



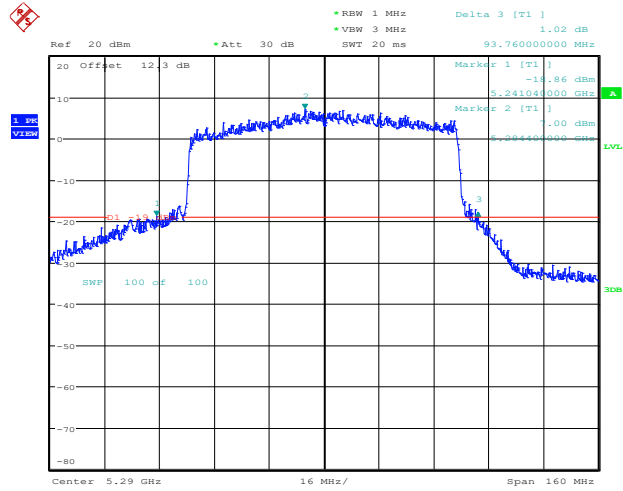
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11AX80SISO_Ant1_5210



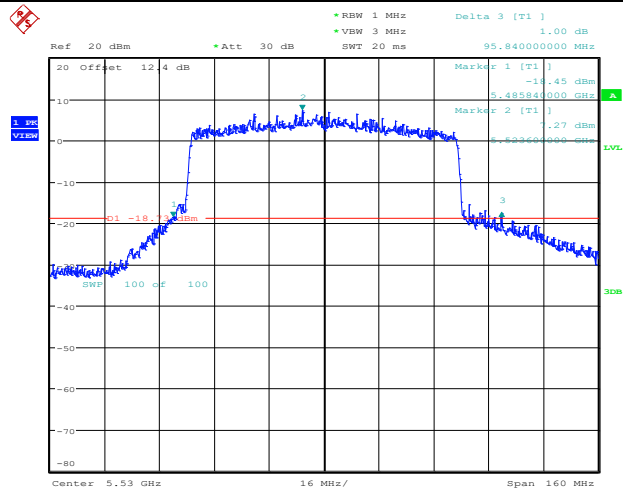
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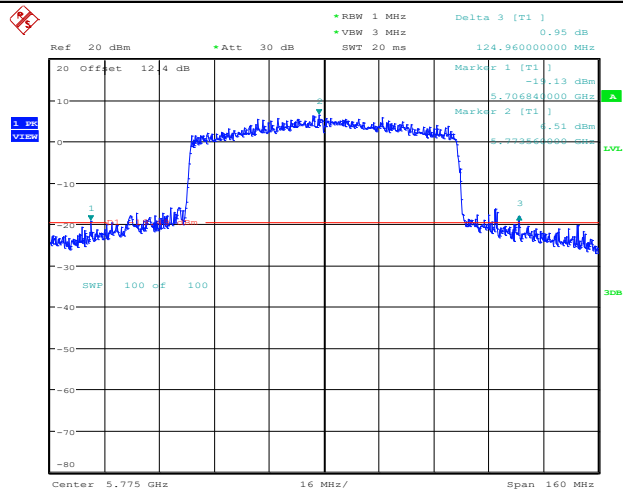
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11AX80SISO_Ant1_5530



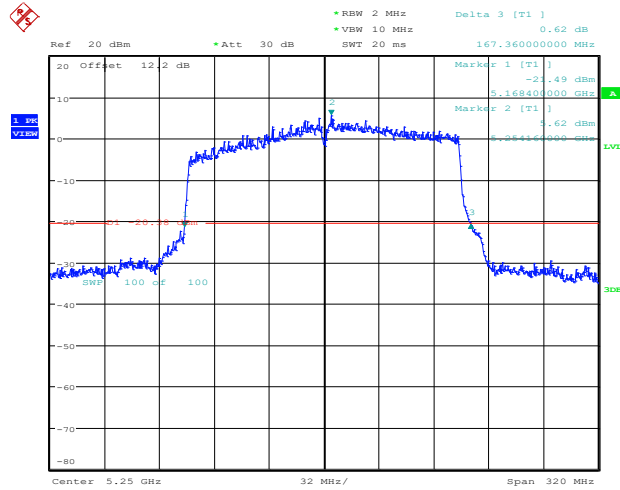
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11AX80SISO_Ant1_5775



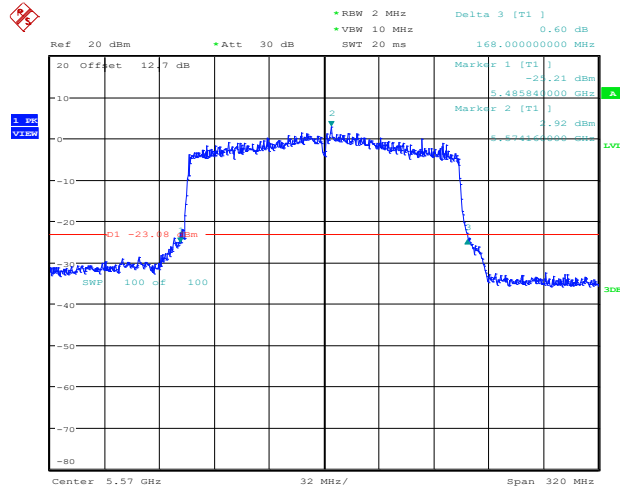
Date: 28.SEP.2024 08:21:51

11AX160SISO_Ant1_5250



Date: 28.SEP.2024 08:25:05

11AX160SISO_Ant1_5570



Date: 28.SEP.2024 08:39:21

Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.52	5171.2800	5188.8000	---	---
		5220	17.2	5211.4000	5228.6000	---	---
		5240	17.2	5231.3600	5248.5600	---	---
		5260	17.12	5251.4000	5268.5200	---	---
		5300	17.56	5291.2000	5308.7600	---	---
		5320	17.44	5311.2400	5328.6800	---	---
		5500	17.48	5491.2000	5508.6800	---	---
		5580	17.24	5571.3200	5588.5600	---	---
		5700	18.92	5689.9200	5708.8400	---	---
		5745	18.72	5736.2000	5754.9200	---	---
		5785	20.24	5774.8400	5795.0800	---	---
		5825	18.12	5815.5200	5833.6400	---	---
11N20SISO	Ant1	5180	18.72	5170.7600	5189.4800	---	---
		5220	18.28	5210.8400	5229.1200	---	---
		5240	18.16	5230.8800	5249.0400	---	---
		5260	18.2	5250.8400	5269.0400	---	---
		5300	18.68	5290.6400	5309.3200	---	---
		5320	18.52	5310.6800	5329.2000	---	---
		5500	18.52	5490.7200	5509.2400	---	---
		5580	18.28	5570.8000	5589.0800	---	---
		5700	19.08	5690.1200	5709.2000	---	---
		5745	19	5735.4000	5754.4000	---	---
		5785	19.88	5775.0000	5794.8800	---	---
		5825	18.68	5815.4400	5834.1200	---	---
11N40SISO	Ant1	5190	36.88	5171.7600	5208.6400	---	---
		5230	36.56	5211.7600	5248.3200	---	---
		5270	36.48	5251.7600	5288.2400	---	---
		5310	36.72	5291.6000	5328.3200	---	---
		5510	36.8	5491.5200	5528.3200	---	---
		5550	36.72	5531.4400	5568.1600	---	---
		5670	37.44	5651.1200	5688.5600	---	---
		5755	36.88	5736.6800	5773.5600	---	---
		5795	37.2	5776.2800	5813.4800	---	---
11AC20SISO	Ant1	5180	18.48	5170.8400	5189.3200	---	---
		5220	18.04	5210.9600	5229.0000	---	---
		5240	17.96	5231.0000	5248.9600	---	---
		5260	18.04	5250.9600	5269.0000	---	---

		5300	18.4	5290.7600	5309.1600	---	---
		5320	18.32	5310.7600	5329.0800	---	---
		5500	18.4	5490.8000	5509.2000	---	---
		5580	18.12	5570.8800	5589.0000	---	---
		5700	23.44	5688.3200	5711.7600	---	---
		5745	25.4	5732.4000	5757.8000	---	---
		5785	27.36	5771.3600	5798.7200	---	---
		5825	23.76	5812.8000	5836.5600	---	---
11AC40SISO	Ant1	5190	36.72	5171.8400	5208.5600	---	---
		5230	36.4	5211.8400	5248.2400	---	---
		5270	36.32	5251.8400	5288.1600	---	---
		5310	36.72	5291.5200	5328.2400	---	---
		5510	36.72	5491.6000	5528.3200	---	---
		5550	36.56	5531.6800	5568.2400	---	---
		5670	37.12	5651.2800	5688.4000	---	---
		5755	36.96	5736.6800	5773.6400	---	---
		5795	37.6	5776.1200	5813.7200	---	---
11AC80SISO	Ant1	5210	76	5172.4000	5248.4000	---	---
		5290	76	5251.9200	5327.9200	---	---
		5530	76.16	5491.7600	5567.9200	---	---
		5775	76.48	5736.7600	5813.2400	---	---
11AC160SISO	Ant1	5250	154.88	5173.8400	5328.7200	---	---
		5250_UNII-1	76.16	5173.8400	5250	---	---
		5250_UNII-2A	78.72	5250	5328.7200	---	---
		5570	156.16	5491.9200	5648.0800	---	---
11AX20SISO	Ant1	5180	19.44	5170.2800	5189.7200	---	---
		5220	19.2	5210.3600	5229.5600	---	---
		5240	19.12	5230.4000	5249.5200	---	---
		5260	19.2	5250.3600	5269.5600	---	---
		5300	19.4	5290.2800	5309.6800	---	---
		5320	19.36	5310.2400	5329.6000	---	---
		5500	19.28	5490.3200	5509.6000	---	---
		5580	19.24	5570.3200	5589.5600	---	---
		5700	19.72	5689.9600	5709.6800	---	---
		5745	21.24	5734.6800	5755.9200	---	---
		5785	24.4	5772.7600	5797.1600	---	---
		5825	20.88	5814.4400	5835.3200	---	---
11AX40SISO	Ant1	5190	38.16	5171.0400	5209.2000	---	---
		5230	37.92	5211.0400	5248.9600	---	---
		5270	37.92	5251.0400	5288.9600	---	---
		5310	38	5290.9600	5328.9600	---	---

		5510	38.08	5490.8800	5528.9600	---	---
		5550	37.76	5531.0400	5568.8000	---	---
		5670	38.56	5650.6400	5689.2000	---	---
		5755	38.16	5736.0400	5774.2000	---	---
		5795	38.24	5775.8000	5814.0400	---	---
11AX80SISO	Ant1	5210	77.6	5171.6000	5249.2000	---	---
		5290	77.44	5251.4400	5328.8800	---	---
		5530	77.6	5490.9600	5568.5600	---	---
		5775	77.6	5736.1200	5813.7200	---	---
11AX160SISO	Ant1	5250	156.16	5173.2000	5329.3600	---	---
		5250_UNII-1	76.8	5173.2000	5250	---	---
		5250_UNII-2A	79.36	5250	5329.3600	---	---
		5570	157.44	5490.9600	5648.4000	---	---

11A_Ant1_5180

Ref 20 dBm Att 30 dB SWT 20 ms

*RBW 500 kHz Marker 1 [T1] 5.191080000 GHz
*VBW 2 MHz 5.75 dBm

20 Offset 12.2 dB

1.58 VdBm

SWP 100 cf 100

Temp 1 [T1 CW] 5.200000000 MHz -1.28 dBm
Temp 2 [T1 CW] 5.171280000 GHz -1.18 dBm
5.188800000 GHz

LVL

3dB

Center 5.18 GHz 4 MHz/ Span 40 MHz

Date: 27.SEP.2024 17:25:55

11A_Ant1_5220

Ref 20 dBm Att 30 dB SWT 20 ms

*RBW 500 kHz Marker 1 [T1] 5.221920000 GHz
*VBW 2 MHz 5.85 dBm

20 Offset 12.3 dB

1.58 VdBm

SWP 100 cf 100

Temp 1 [T1 CW] 5.200000000 MHz -1.23 dBm
Temp 2 [T1 CW] 5.211400000 GHz -1.32 dBm
5.228600000 GHz

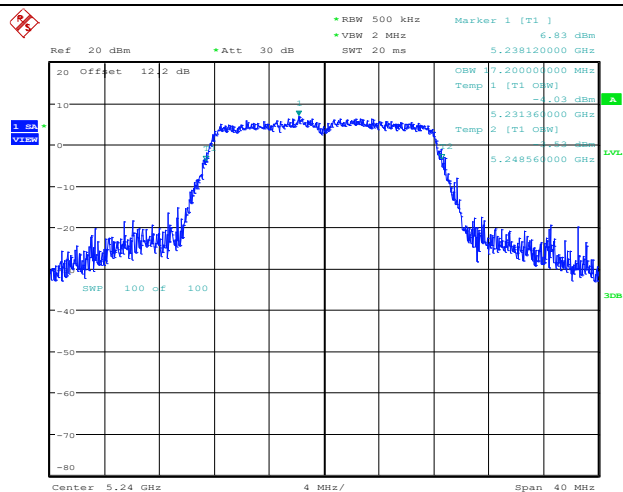
LVL

3dB

Center 5.22 GHz 4 MHz/ Span 40 MHz

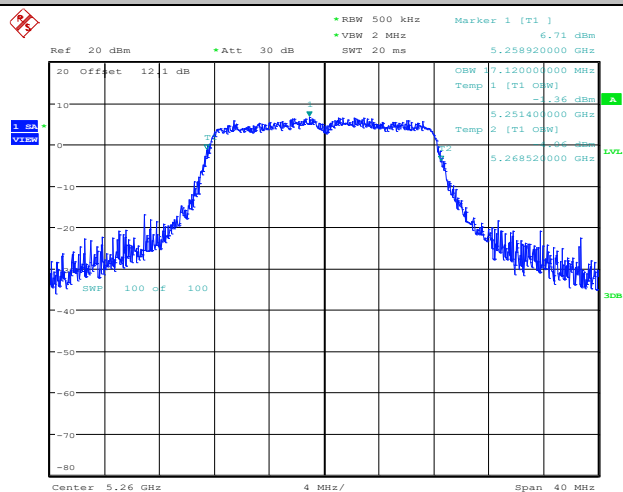
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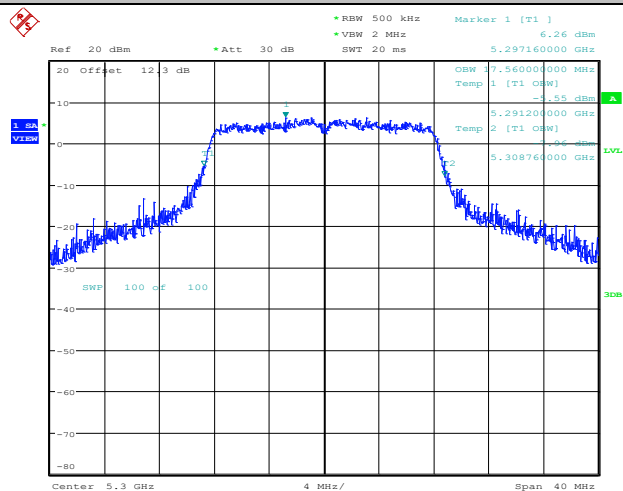
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11A_Ant1_5260



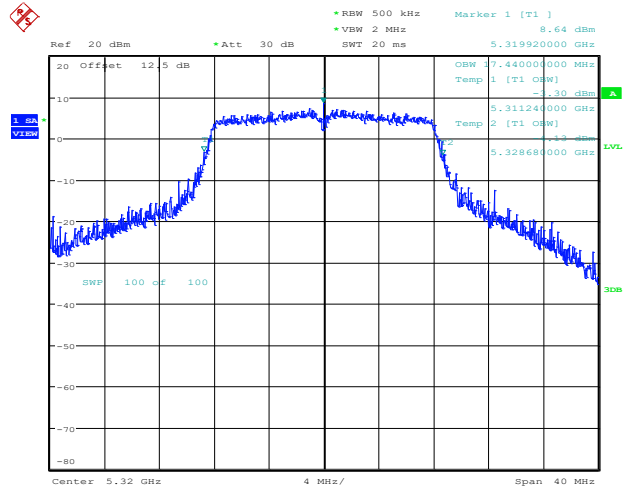
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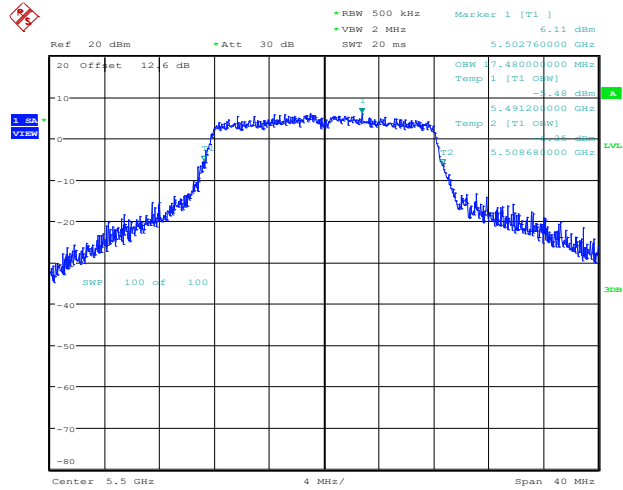
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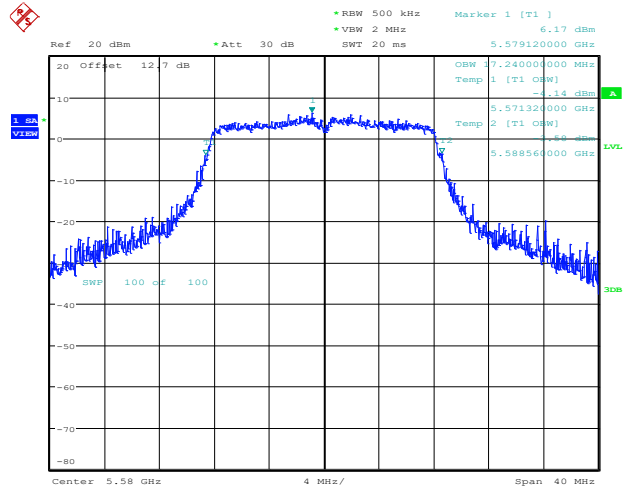
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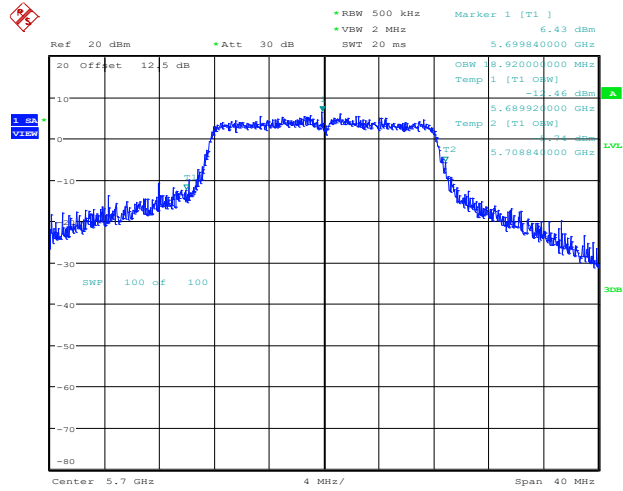
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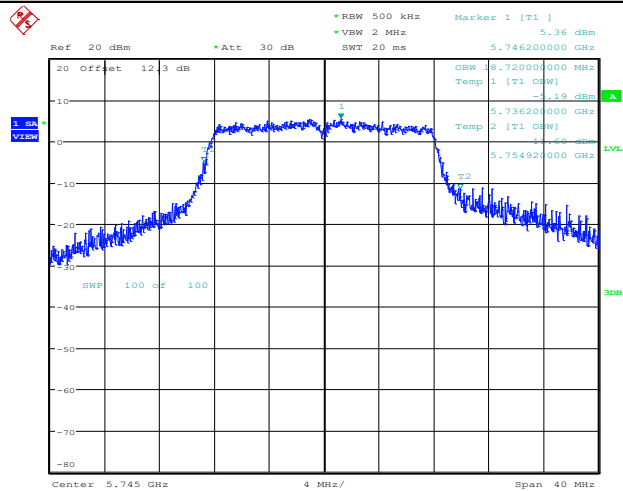
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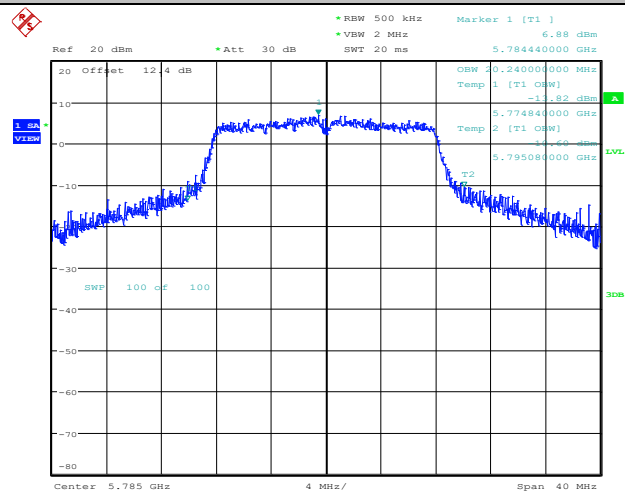
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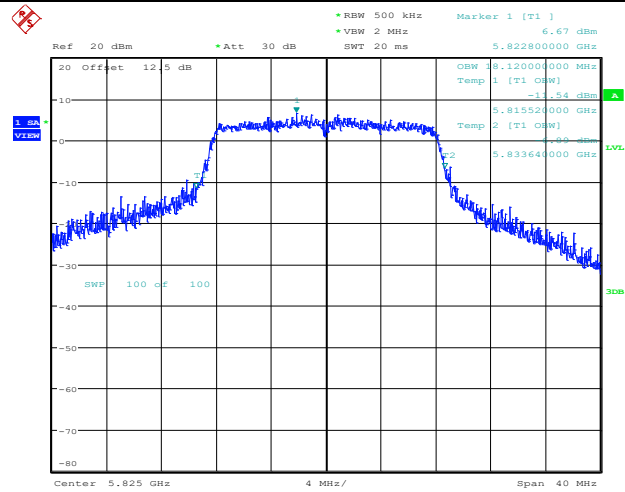
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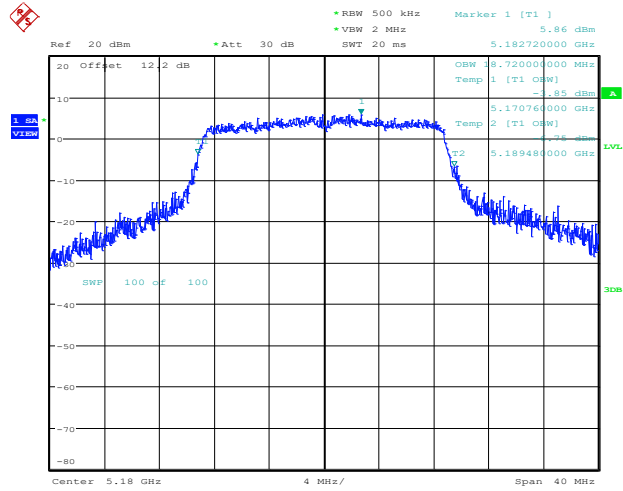
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11A_Ant1_5825



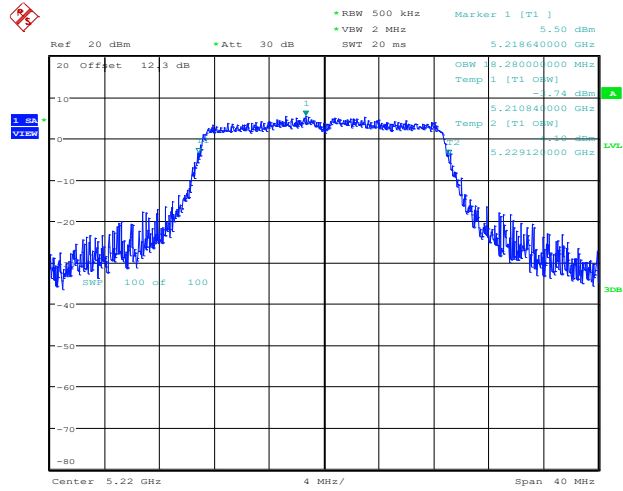
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11N20SISO_Ant1_5180



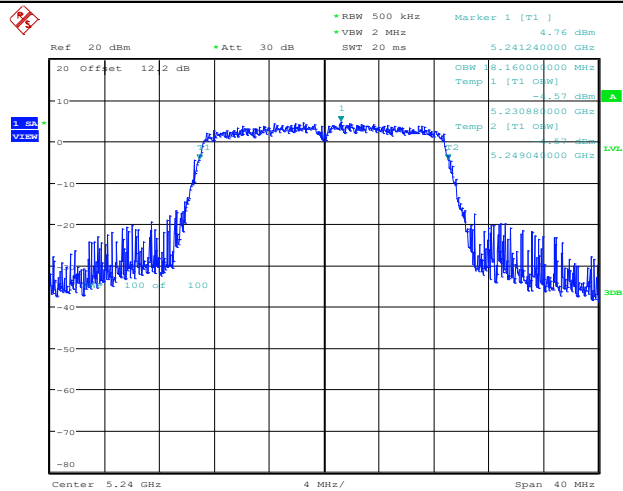
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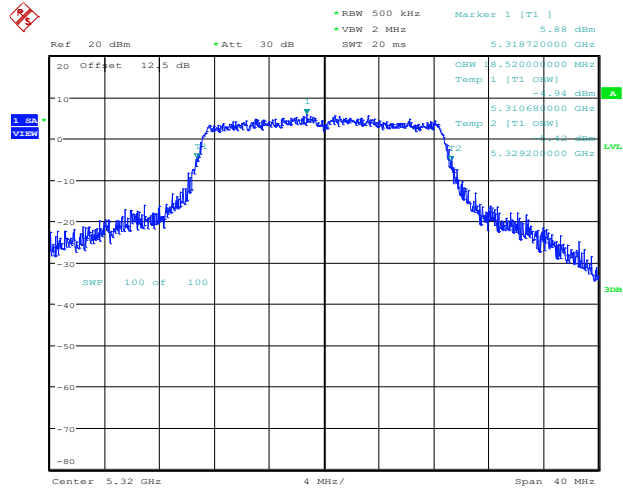


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11N20SISO_Ant1_5240

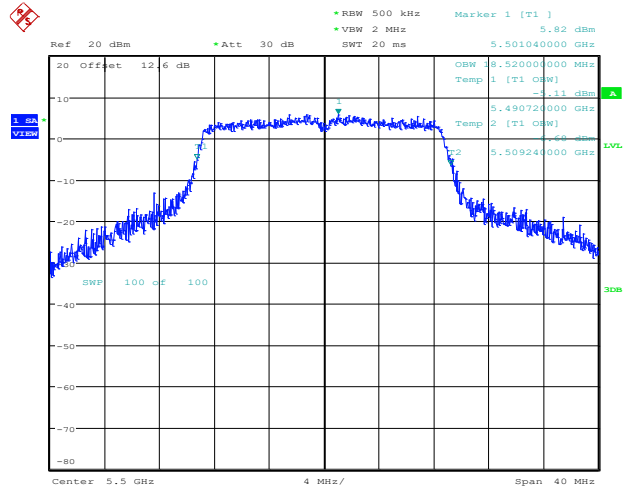


Date: 27.SEP.2024 18:09:03



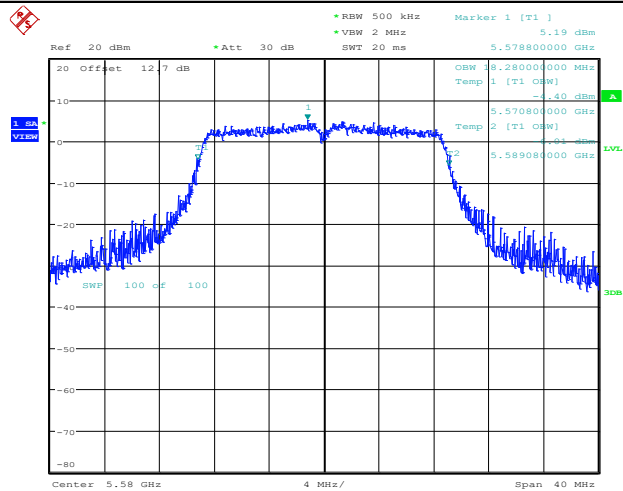
Date: 27.SEP.2024 18:16:05

11N20SISO_Ant1_5500

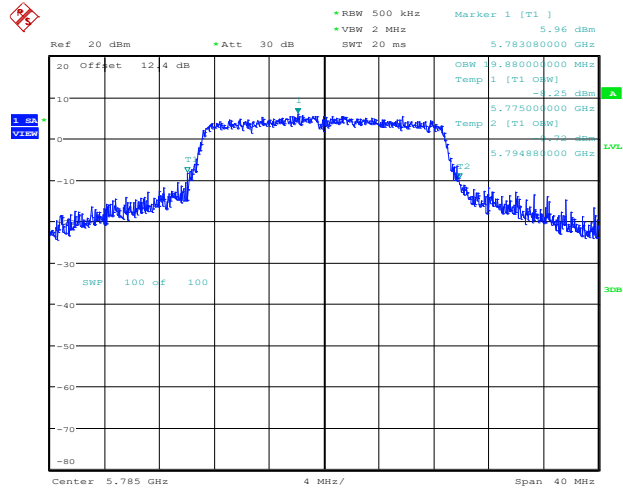


Date: 27.SEP.2024 18:18:48

11N20SISO_Ant1_5580

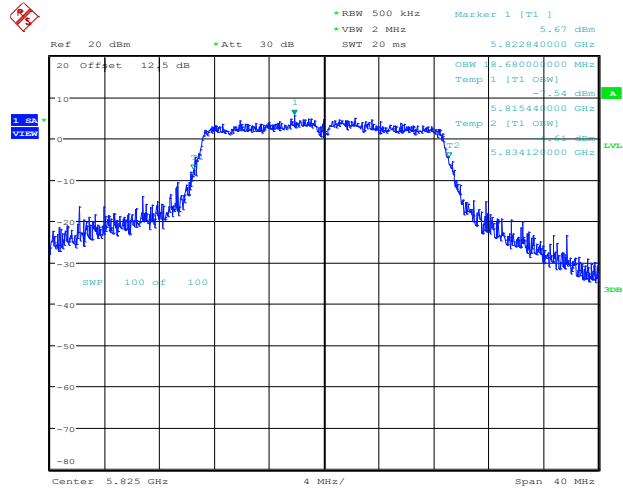


Date: 27.SEP.2024 18:21:28



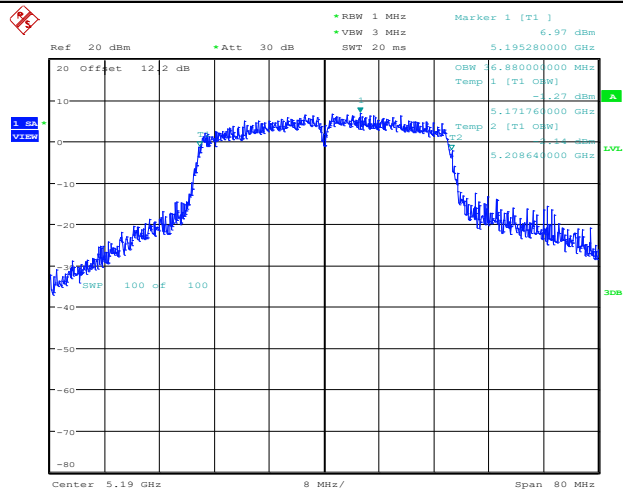
Date: 27.SEP.2024 18:29:44

11N20SISO_Ant1_5825



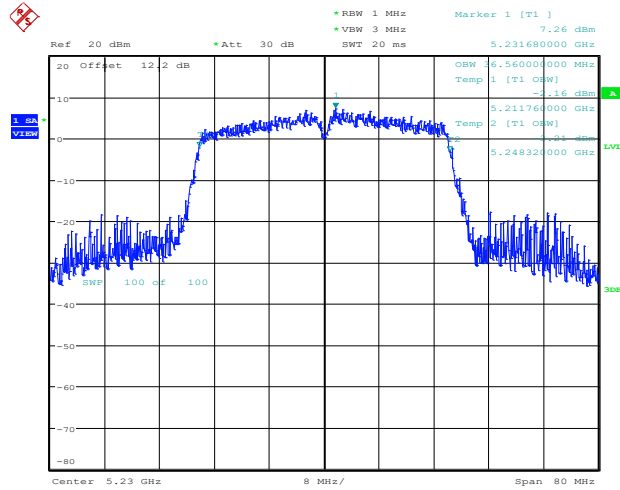
Date: 27.SEP.2024 18:32:09

11N40SISO_Ant1_5190



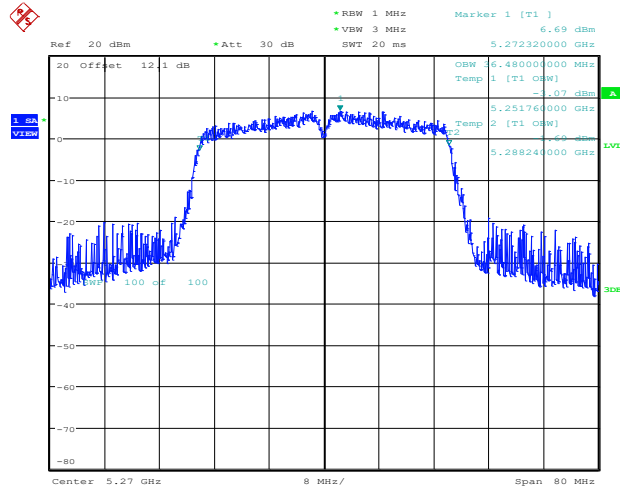
Date: 27.SEP.2024 18:35:11

11N40SISO_Ant1_5230



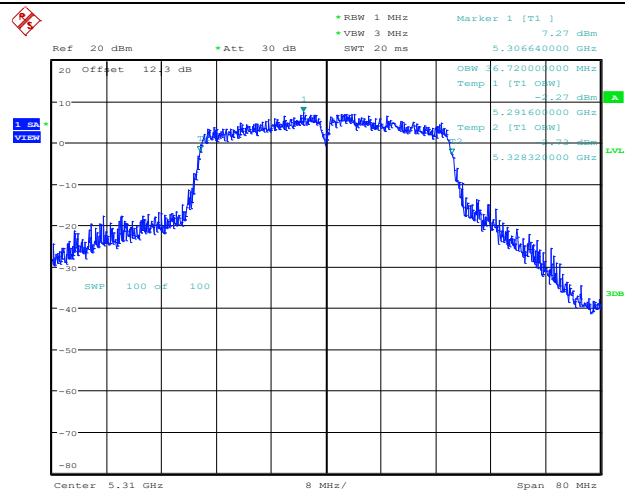
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11N40SISO_Ant1_5270



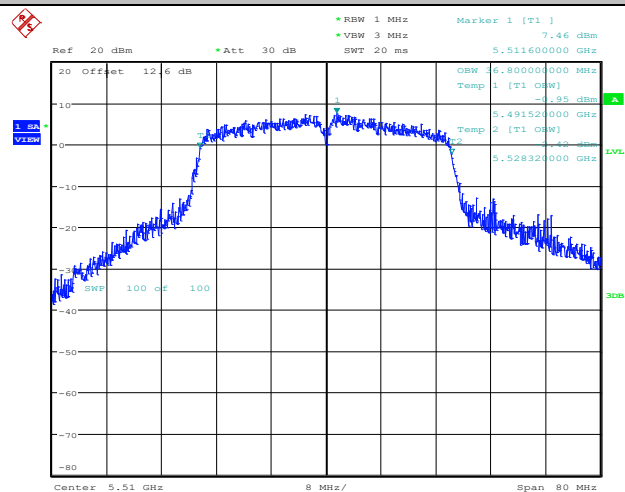
Date: 27.SEP.2024 18:40:05

11N40SISO_Ant1_5310



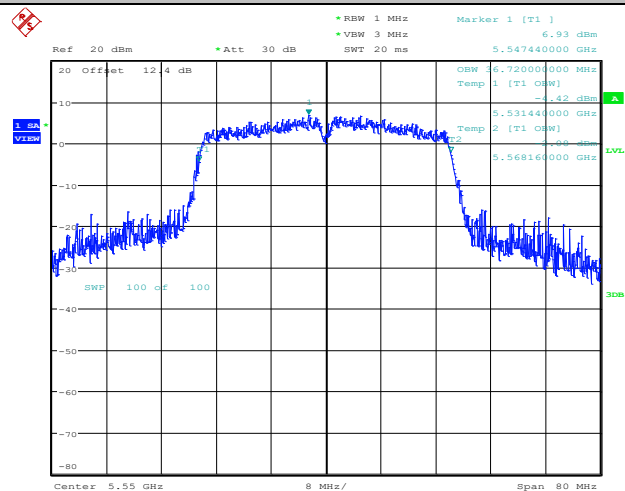
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11N40SISO_Ant1_5510



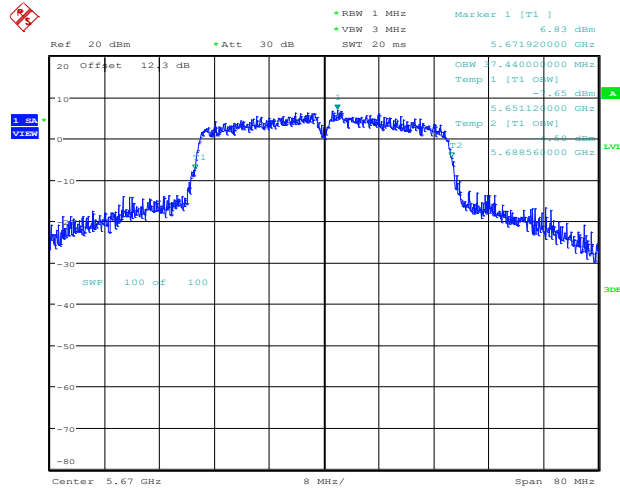
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11N40SISO_Ant1_5550



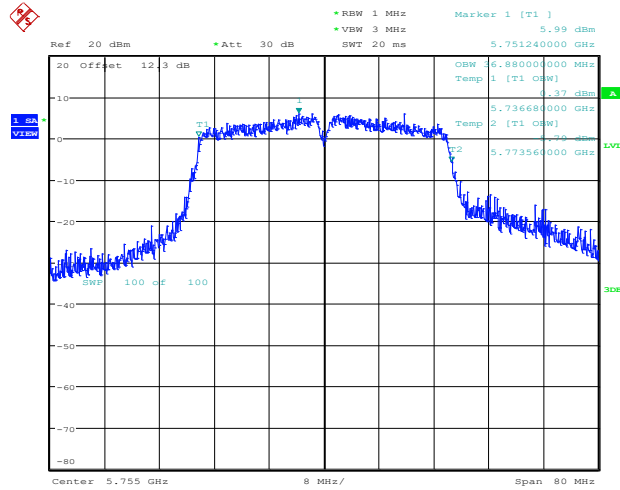
Date: 27.SEP.2024 18:47:37

11N40SISO_Ant1_5670



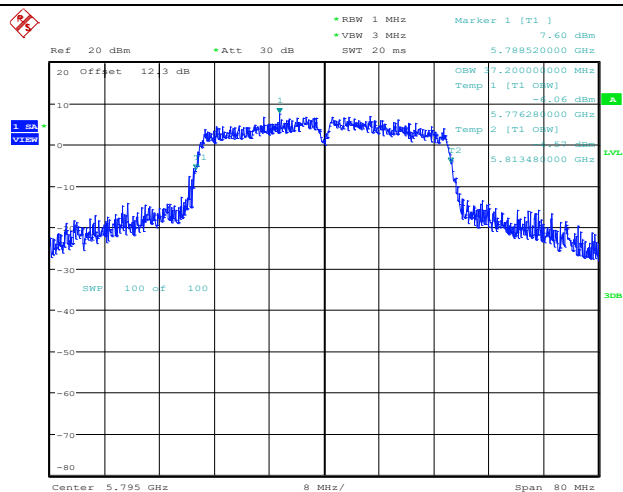
Date: 27.SEP.2024 18:50:44

11N40SISO_Ant1_5755



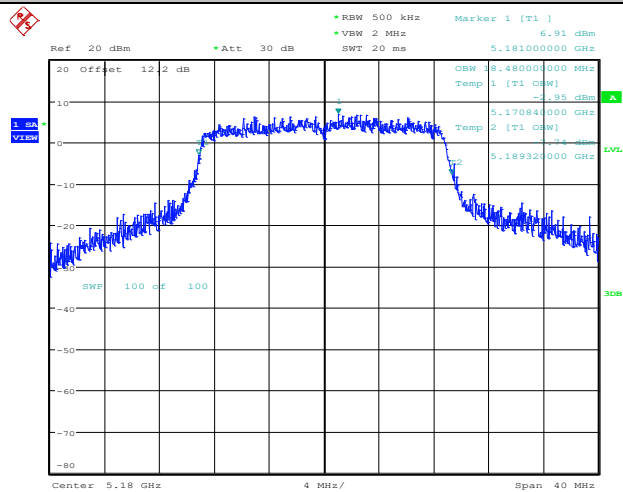
Date: 27.SEP.2024 18:54:08

11N40SISO_Ant1_5795



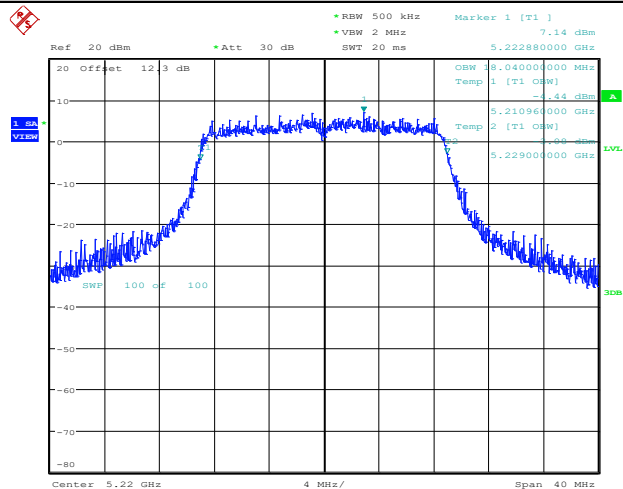
Date: 27.SEP.2024 18:59:16

11AC20SISO_Ant1_5180



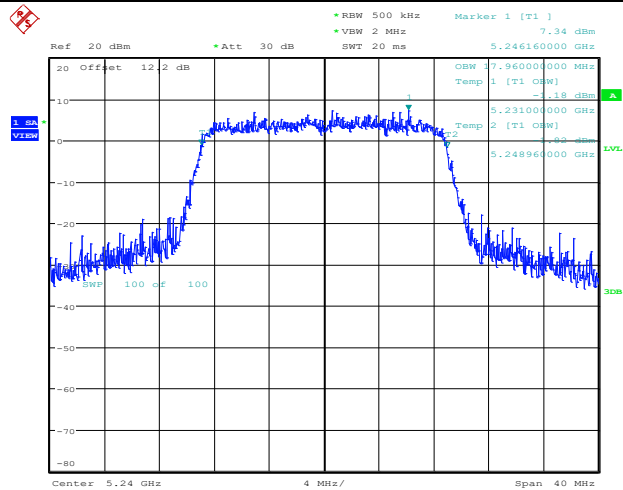
Date: 27.SEP.2024 19:02:20

11AC20SISO_Ant1_5220



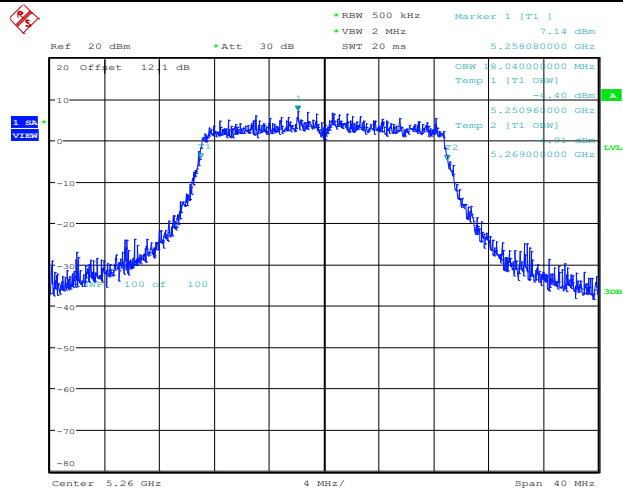
Date: 27.SEP.2024 19:05:13

11AC20SISO_Ant1_5240



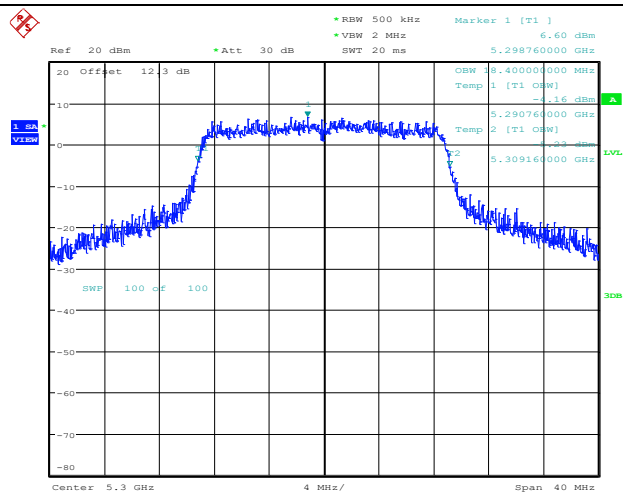
Date: 27.SEP.2024 19:08:19

11AC20SISO_Ant1_5260



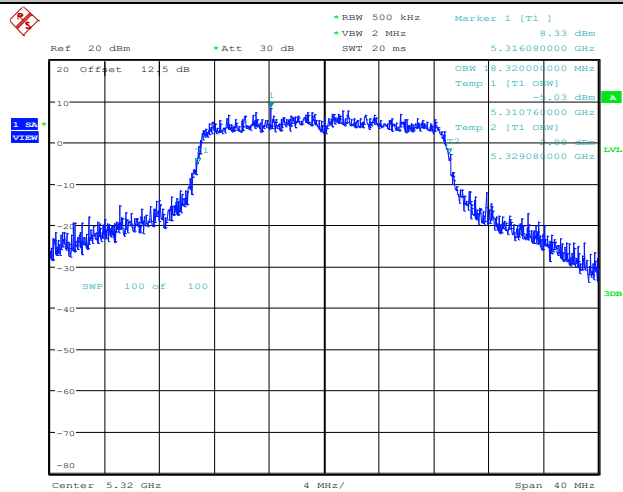
Date: 27.SEP.2024 19:24:20

11AC20SISO_Ant1_5300



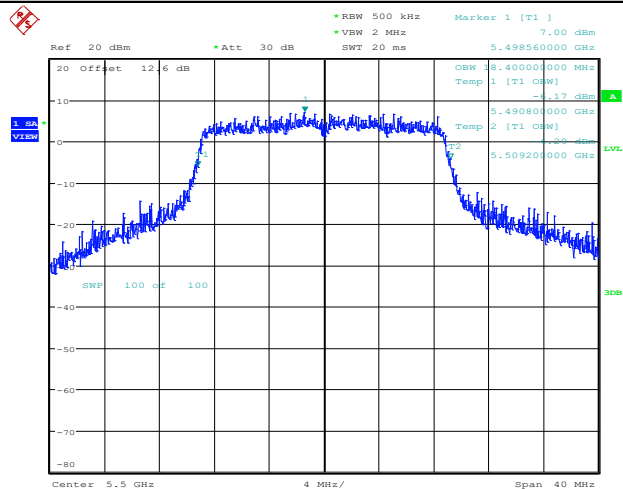
Date: 27.SEP.2024 19:26:51

11AC20SISO_Ant1_5320



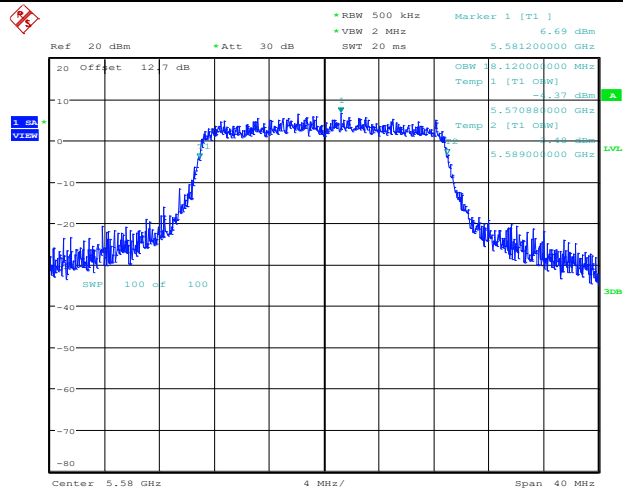
Date: 27.SEP.2024 19:29:12

11AC20SISO_Ant1_5500



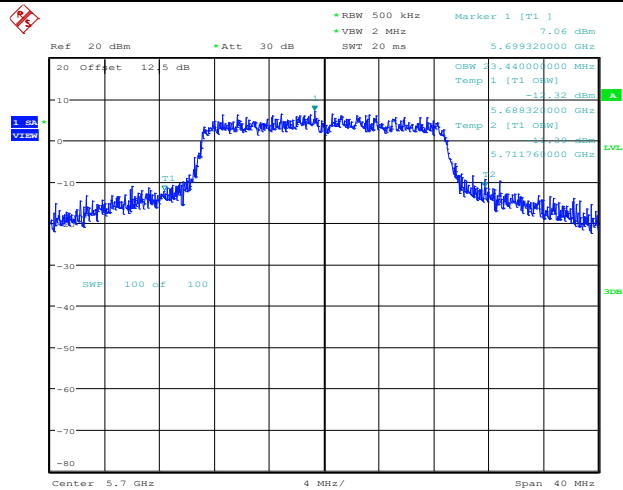
Date: 27.SEP.2024 19:32:06

11AC20SISO_Ant1_5580



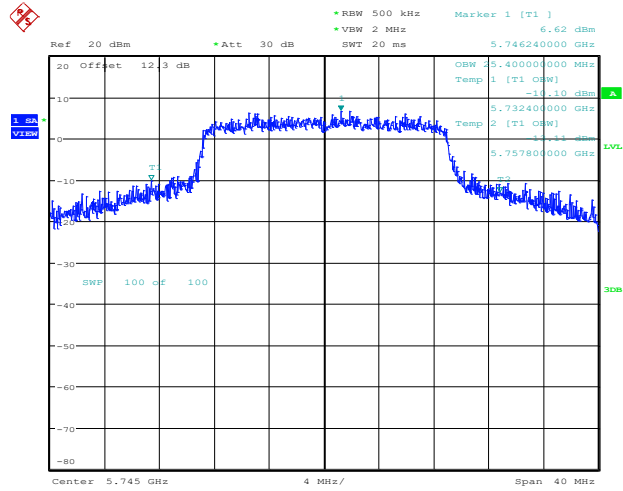
Date: 27.SEP.2024 19:36:04

11AC20SISO_Ant1_5700



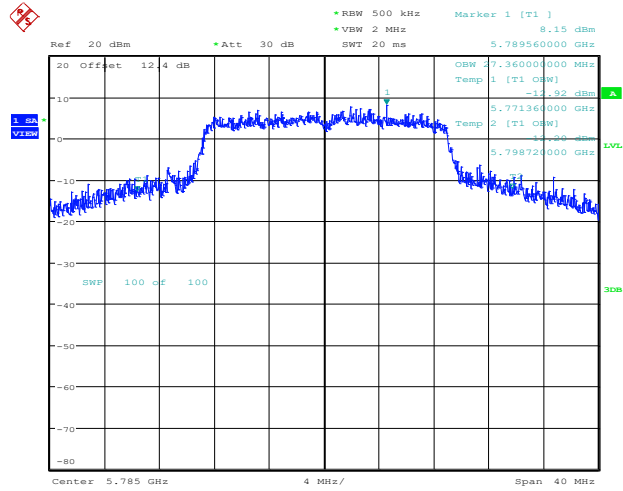
Date: 27.SEP.2024 19:38:21

11AC20SISO_Ant1_5745



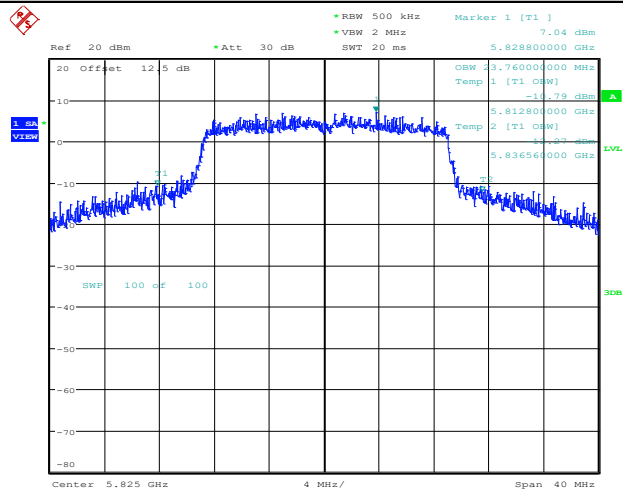
Date: 27.SEP.2024 19:41:21

11AC20SISO_Ant1_5785



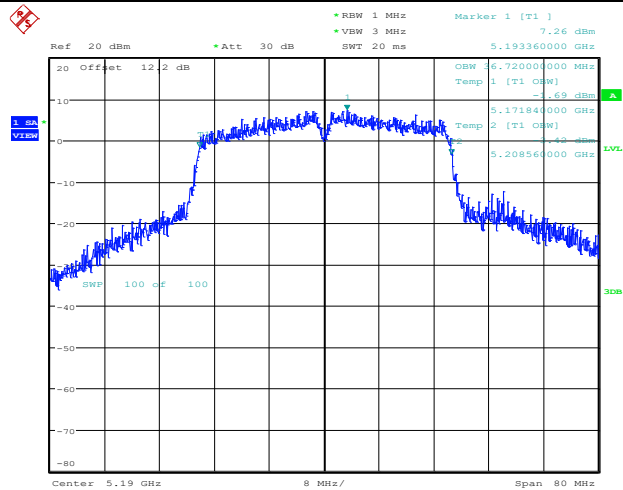
Date: 27.SEP.2024 19:44:24

11AC20SISO_Ant1_5825



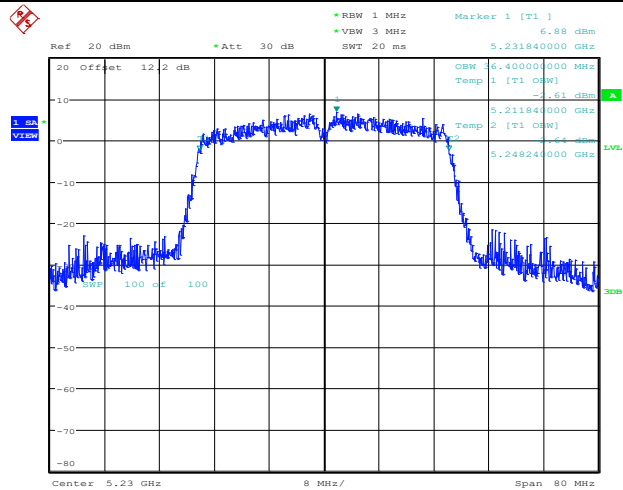
Date: 27.SEP.2024 19:47:19

11AC40SISO_Ant1_5190



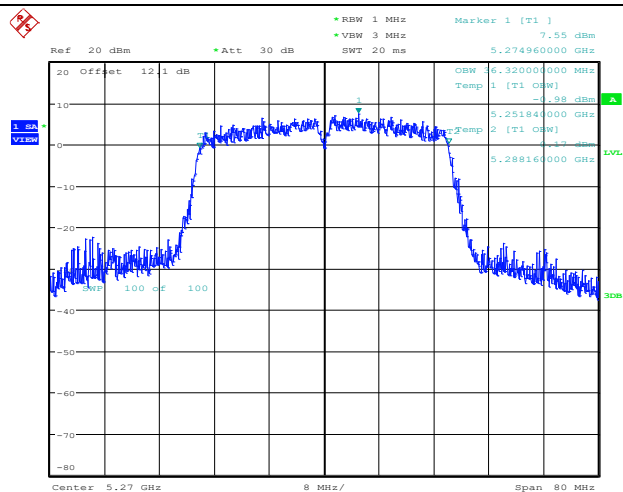
Date: 27.SEP.2024 19:50:33

11AC40SISO_Ant1_5230



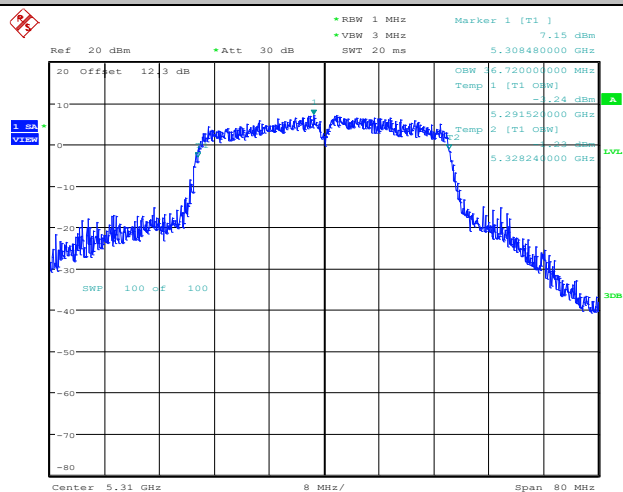
Date: 27.SEP.2024 19:53:22

11AC40SISO_Ant1_5270



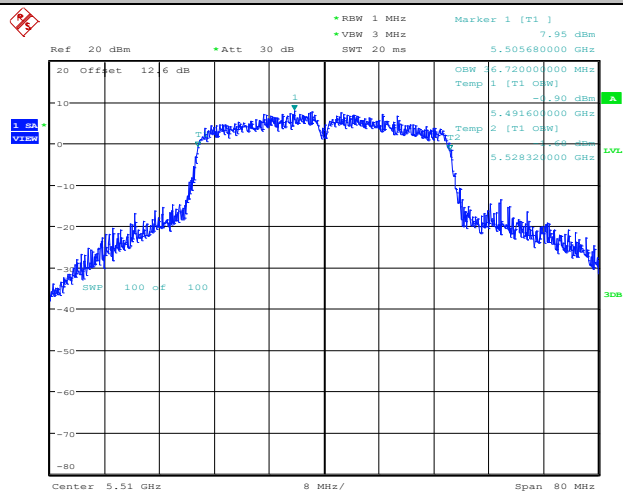
Date: 27.SEP.2024 19:55:42

11AC40SISO_Ant1_5310



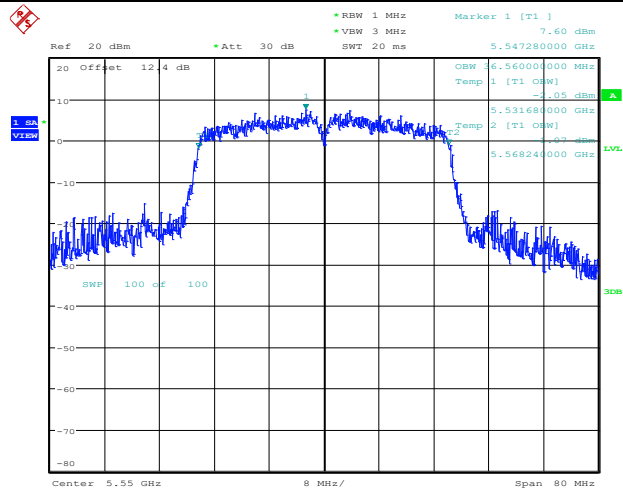
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11AC40SISO_Ant1_5510



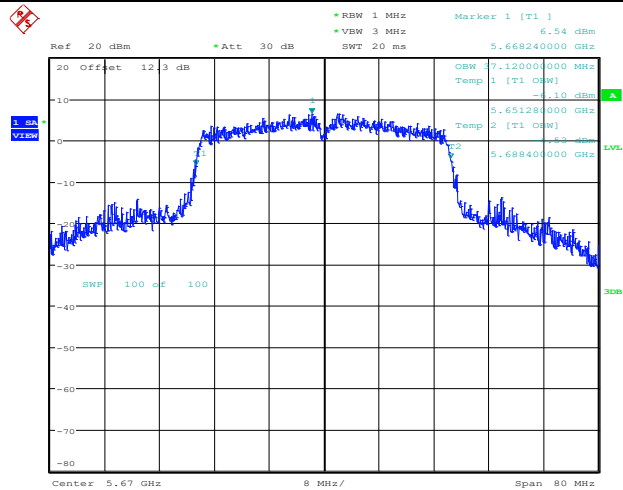
Date: 27.SEP.2024 20:00:38

11AC40SISO_Ant1_5550



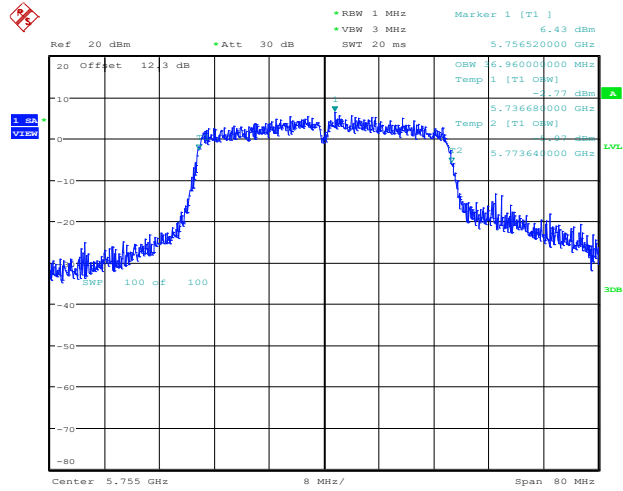
Date: 27.SEP.2024 20:03:57

11AC40SISO_Ant1_5670



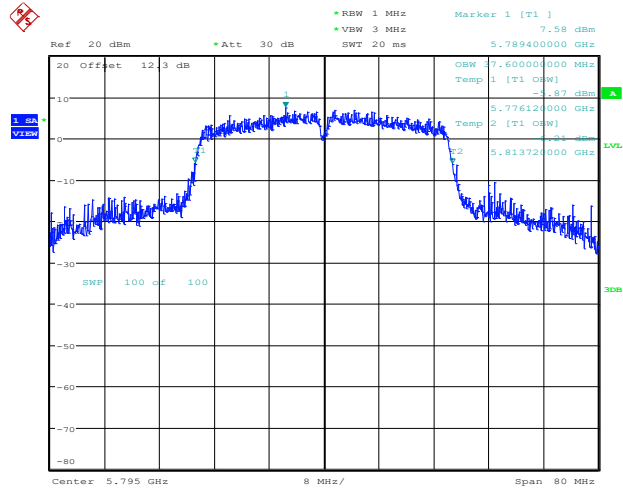
Date: 27.SEP.2024 20:06:30

11AC40SISO_Ant1_5755



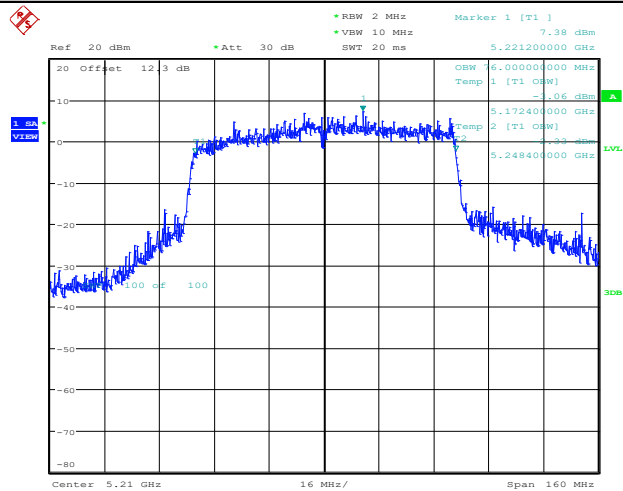
Date: 27.SEP.2024 20:09:38

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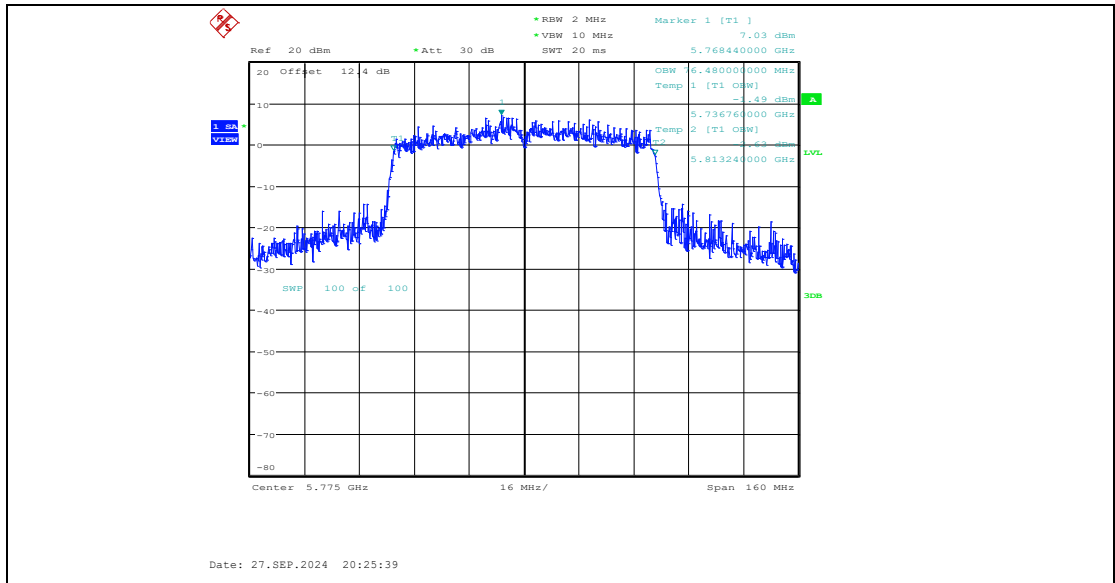


Date: 27.SEP.2024 20:13:10

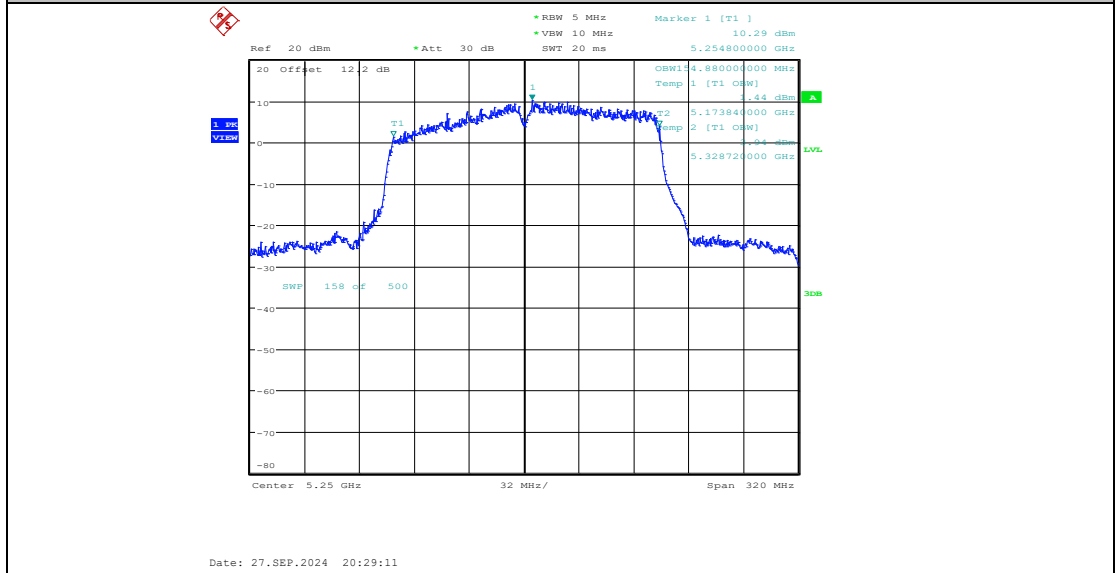
11AC80SISO_Ant1_5210



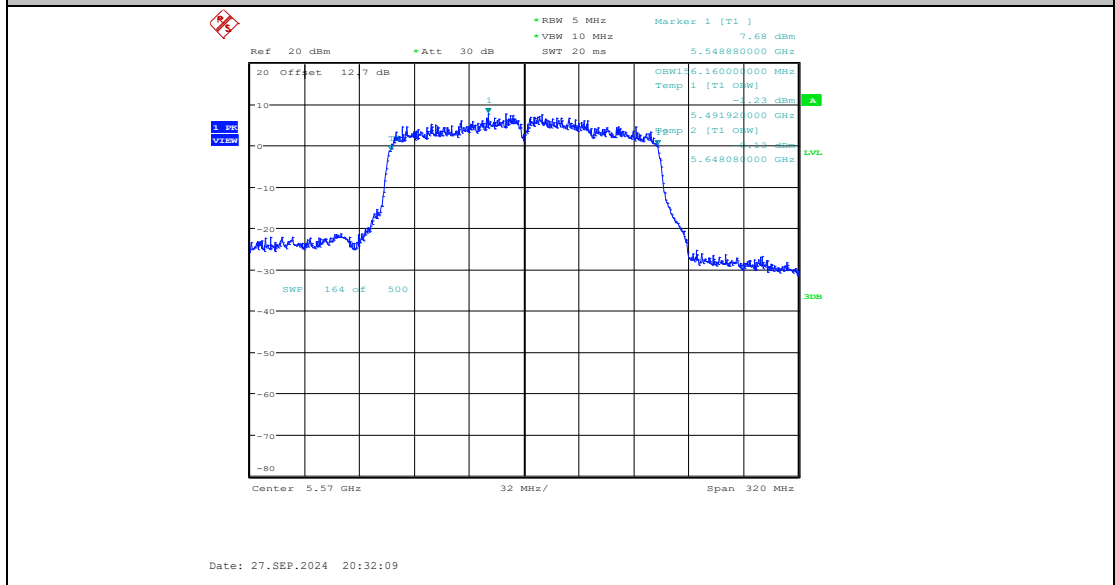
Date: 27.SEP.2024 20:16:16



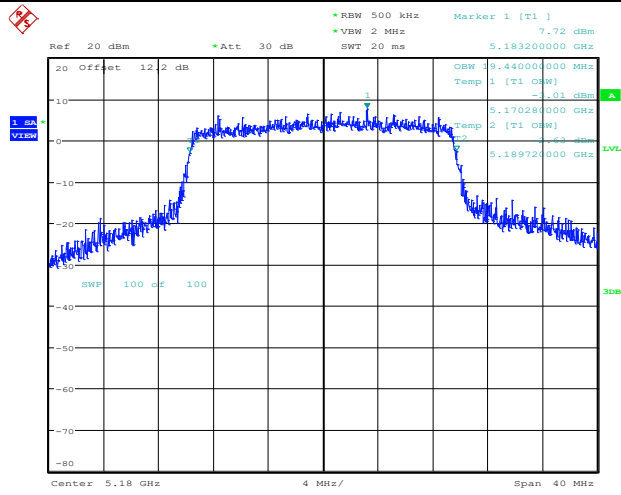
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11AC160SISO_Ant1_5570

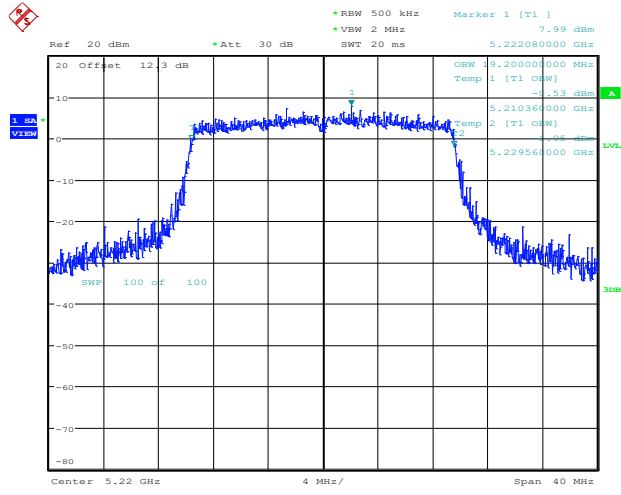


11AX20SISO_Ant1_5180



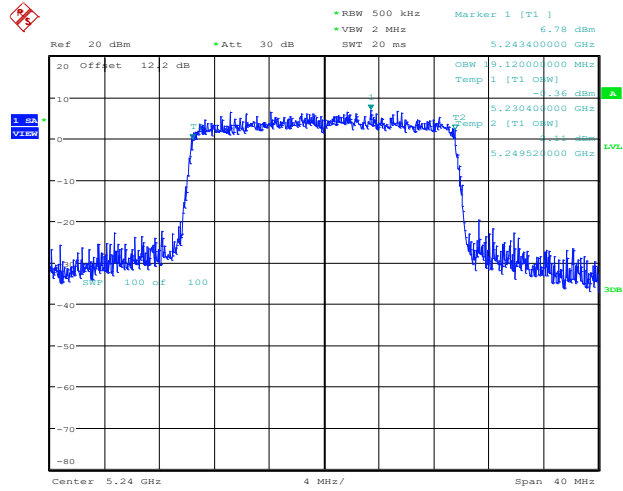
Date: 27.SEP.2024 20:43:05

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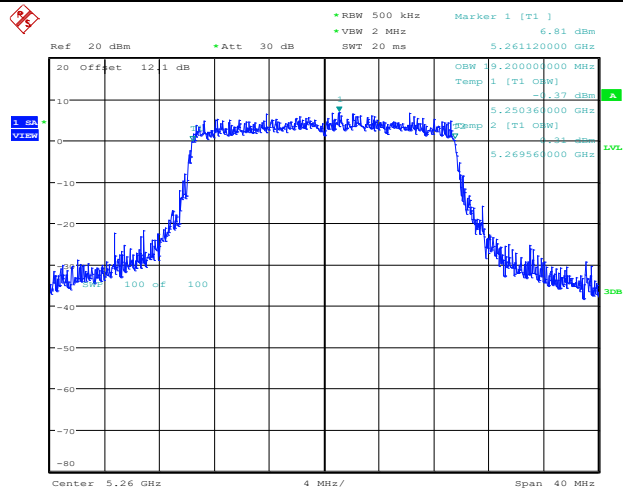
Date: 27.SEP.2024 20:46:21

11AX20SISO_Ant1_5240



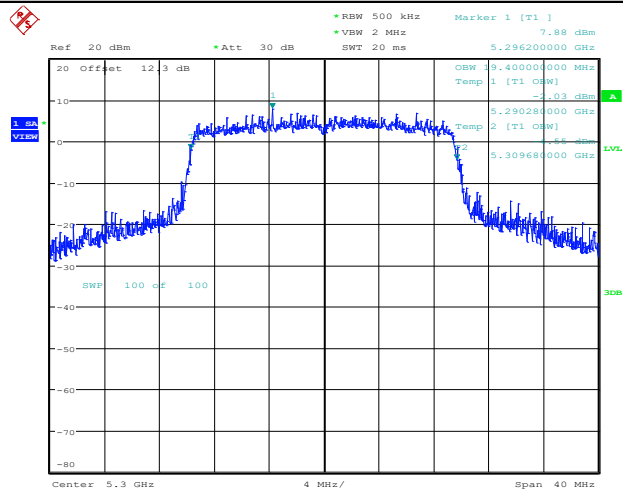
Date: 27.SEP.2024 20:51:05

11AX20SISO_Ant1_5260



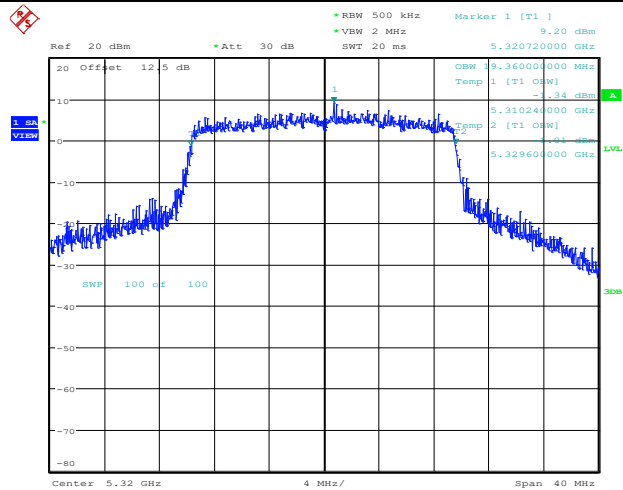
Date: 27.SEP.2024 20:53:21

11AX20SISO_Ant1_5300



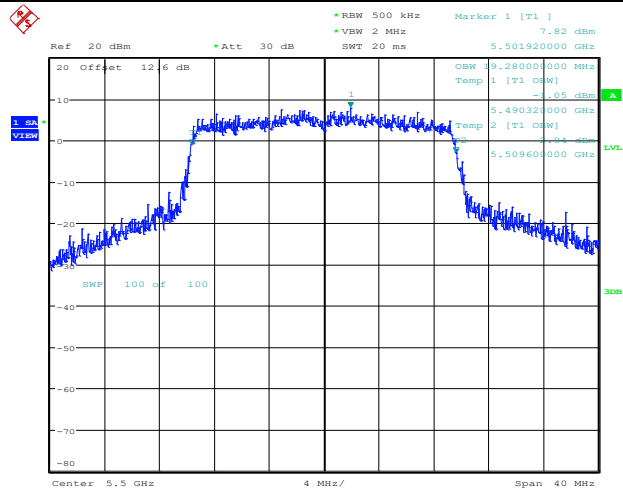
Date: 27.SEP.2024 20:55:37

11AX20SISO_Ant1_5320



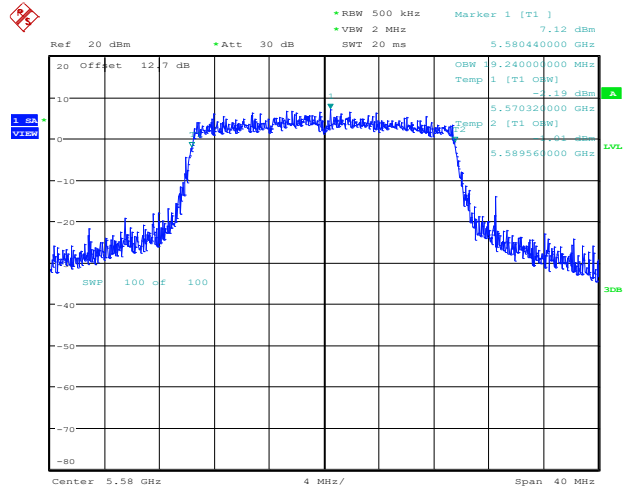
Date: 27.SEP.2024 20:57:58

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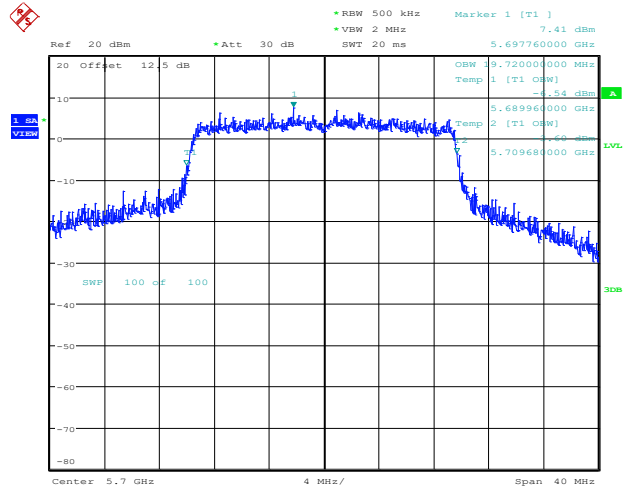
Date: 27.SEP.2024 21:00:36

11AX20SISO_Ant1_5580



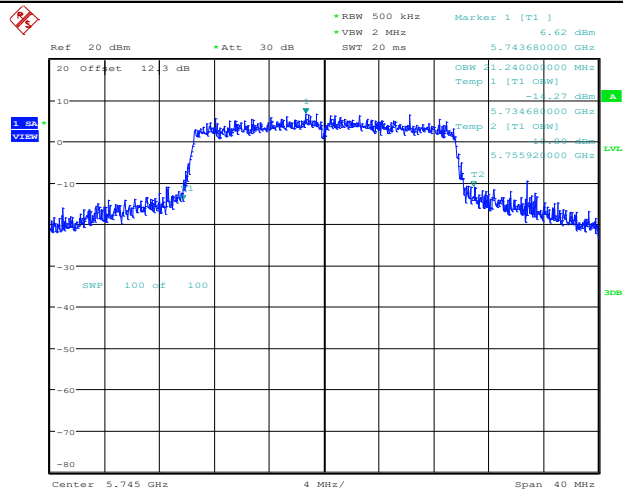
Date: 27.SEP.2024 21:03:21

11AX20ISO_Ant1_5700



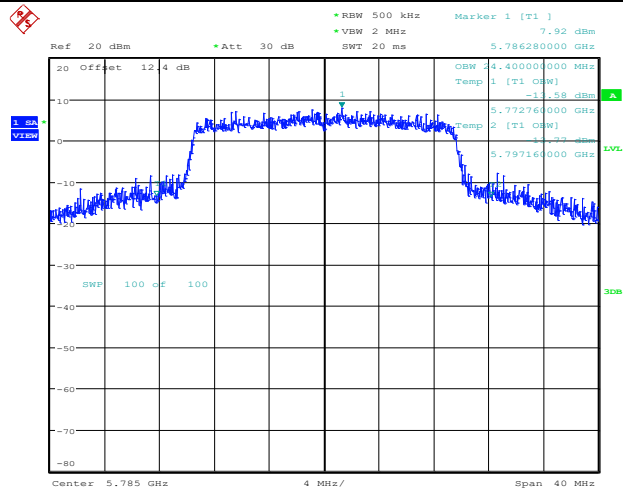
Date: 27.SEP.2024 21:05:40

11AX20ISO_Ant1_5745



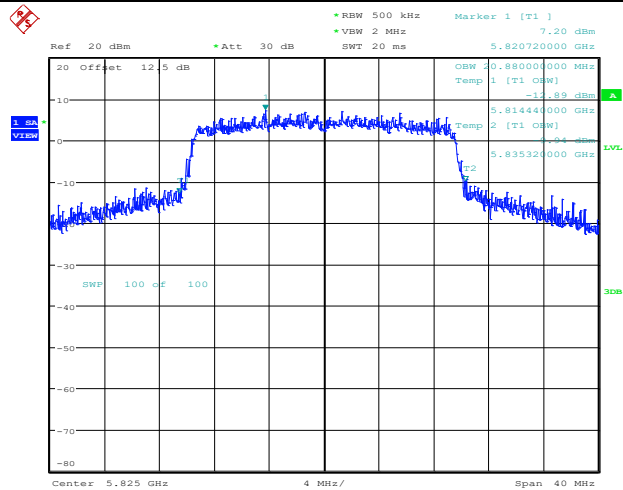
Date: 27.SEP.2024 21:08:51

11AX20SISO_Ant1_5785



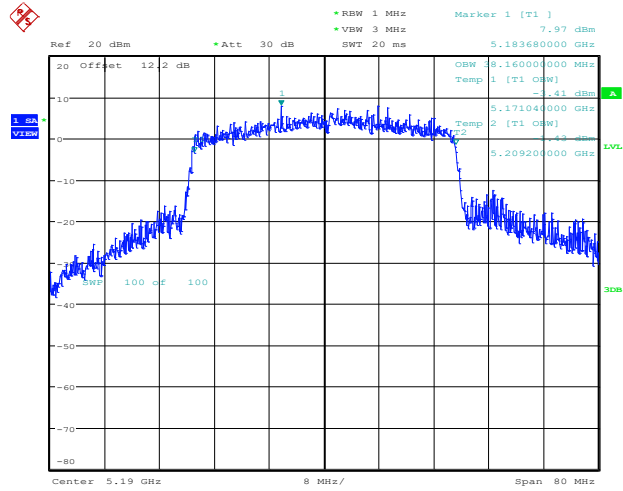
Date: 27.SEP.2024 21:12:05

11AX20SISO_Ant1_5825



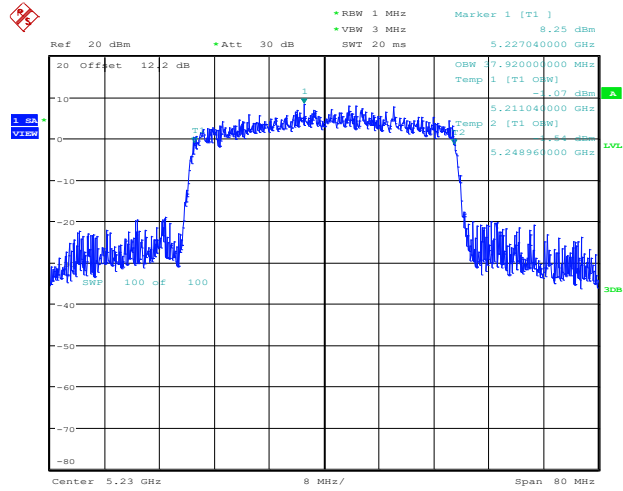
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11AX40SISO_Ant1_5190



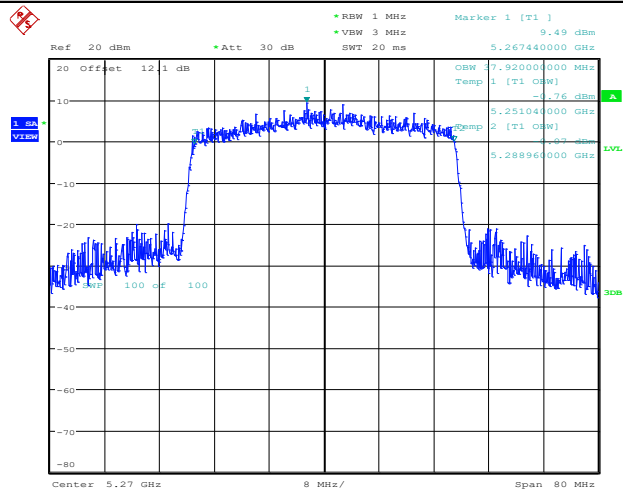
Date: 28.SEP.2024 07:43:37

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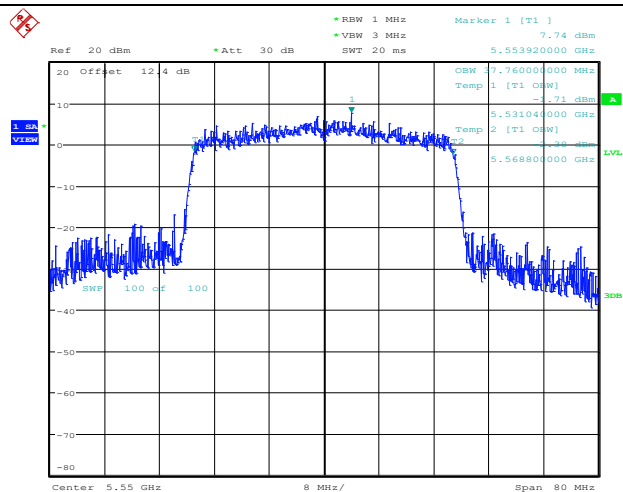


Date: 28.SEP.2024 07:46:43

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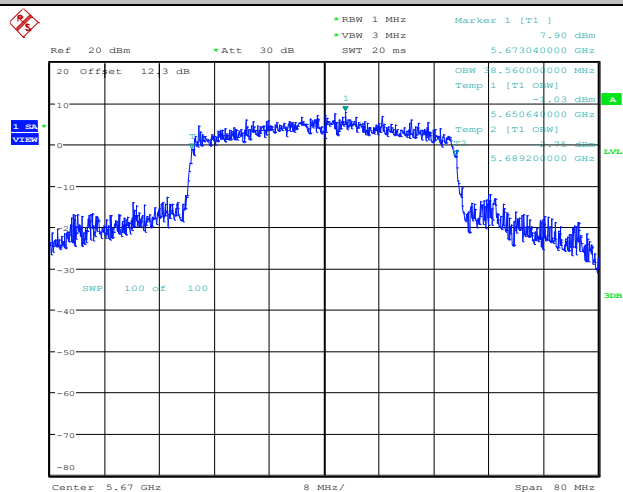


Date: 28.SEP.2024 07:49:11



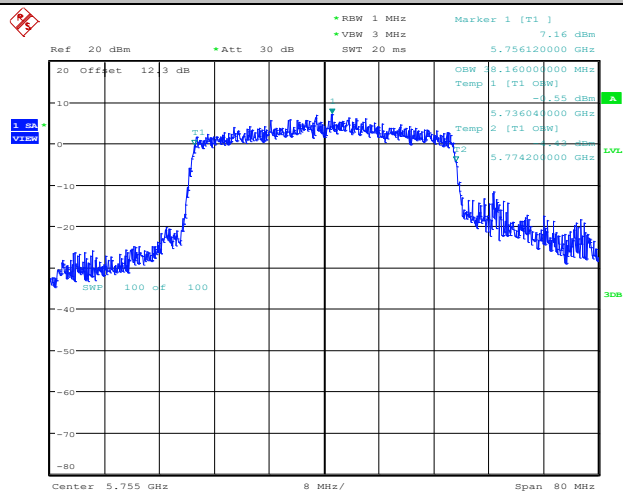
Date: 28.SEP.2024 07:58:39

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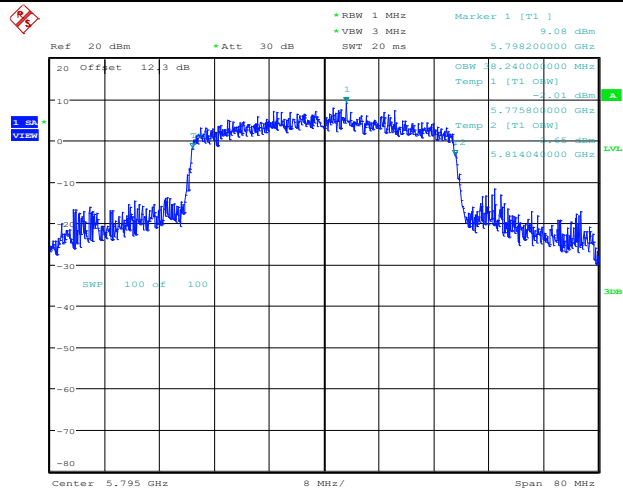
Date: 28.SEP.2024 08:01:01

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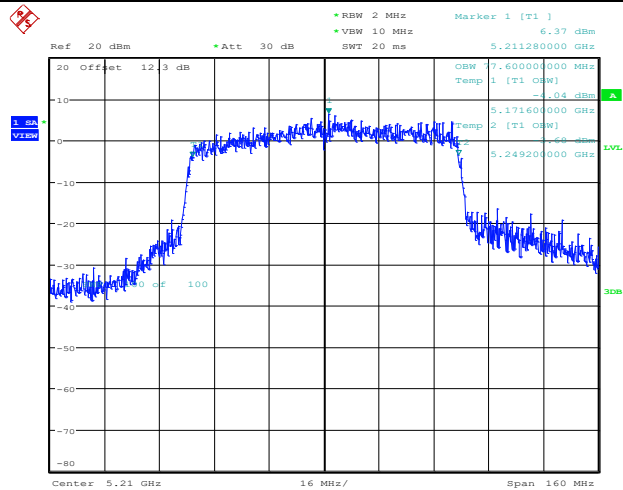
Date: 28.SEP.2024 08:04:11

11AX40SISO_Ant1_5795



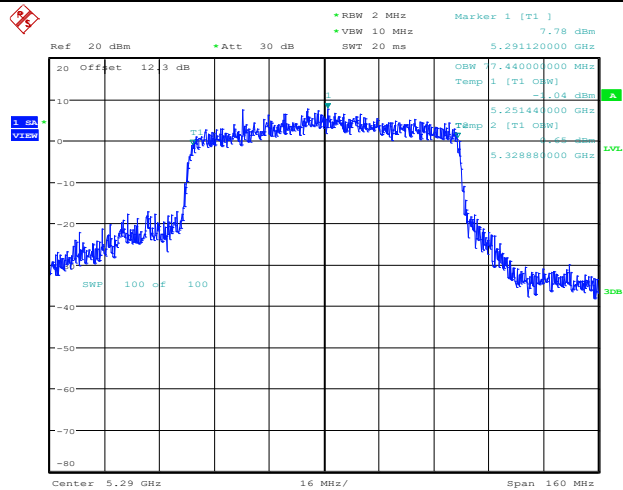
Date: 28.SEP.2024 08:07:22

11AX80SISO_Ant1_5210



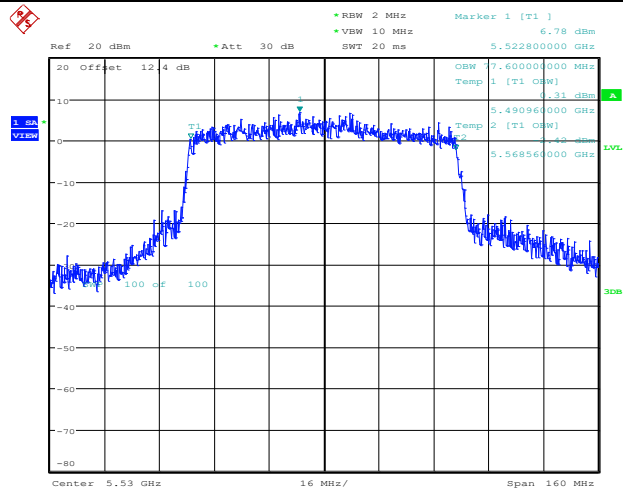
Date: 28.SEP.2024 08:13:23

11AX80SISO_Ant1_5290



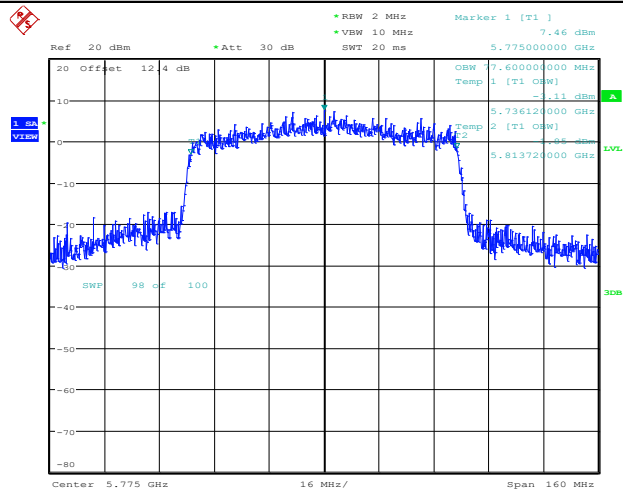
Date: 28.SEP.2024 08:16:15

11AX80SISO_Ant1_5530



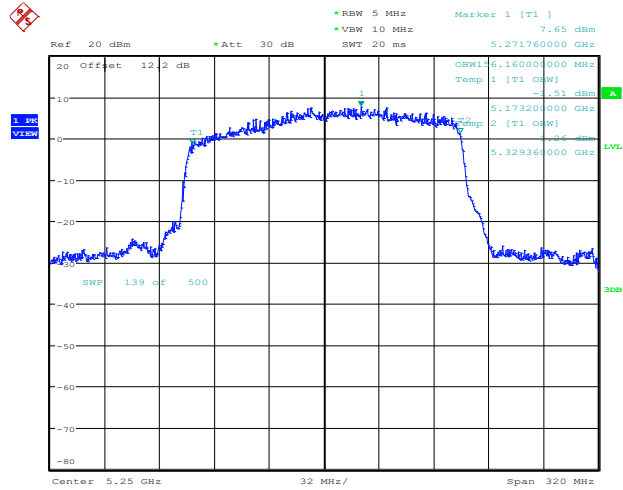
Date: 28.SEP.2024 08:19:11

11AX80SISO_Ant1_5775



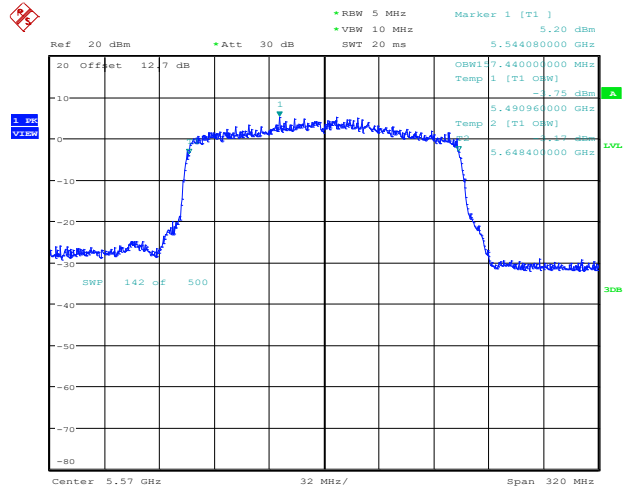
Date: 28.SEP.2024 08:22:25

11AX160SISO_Ant1_5250



Date: 28.SEP.2024 08:25:25

11AX160SISO_Ant1_5570



Date: 28.SEP.2024 08:39:40

Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.28	5736.80	5753.08	0.5	PASS
		5785	16.24	5776.84	5793.08	0.5	PASS
		5825	16.28	5816.80	5833.08	0.5	PASS
11N20SISO	Ant1	5745	17.28	5736.44	5753.72	0.5	PASS
		5785	17.52	5776.20	5793.72	0.5	PASS
		5825	17.32	5816.40	5833.72	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	17.52	5736.32	5753.84	0.5	PASS
		5785	17.52	5776.36	5793.88	0.5	PASS
		5825	17.56	5816.32	5833.88	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.04	5777.48	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20SISO	Ant1	5745	17.96	5735.96	5753.92	0.5	PASS
		5785	18.64	5775.72	5794.36	0.5	PASS
		5825	18.72	5815.76	5834.48	0.5	PASS
11AX40SISO	Ant1	5755	36.32	5737.40	5773.72	0.5	PASS
		5795	36.32	5777.40	5813.72	0.5	PASS
11AX80SISO	Ant1	5775	75.04	5737.40	5812.44	0.5	PASS

11A_Ant1_5745

Ref 20 dBm Att 30 dB SWT 20 ms 16.28000000 MHz

*RBW 100 kHz Delta 3 [T1] 0.26 dB
*VBW 300 kHz

Marker 1 [T1] -1.14 dBm 5.73680000 GHz
Marker 2 [T1] -1.77 dBm 5.74624000 GHz

Offset 12.3 dB

SWP 100 cf 100

Center 5.745 GHz 4 MHz/ Span 40 MHz

Date: 27.SEP.2024 17:55:17

11A_Ant1_5785

Ref 20 dBm Att 30 dB SWT 20 ms 16.24000000 MHz

*RBW 100 kHz Delta 3 [T1] 0.18 dB
*VBW 300 kHz

Marker 1 [T1] -2.93 dBm 5.77684000 GHz
Marker 2 [T1] -2.83 dBm 5.78624000 GHz

Offset 12.4 dB

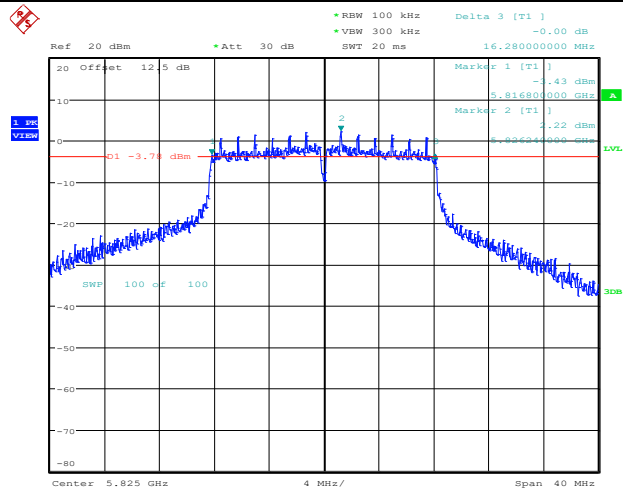
SWP 100 cf 100

Center 5.785 GHz 4 MHz/ Span 40 MHz

Date: 27.SEP.2024 17:58:24

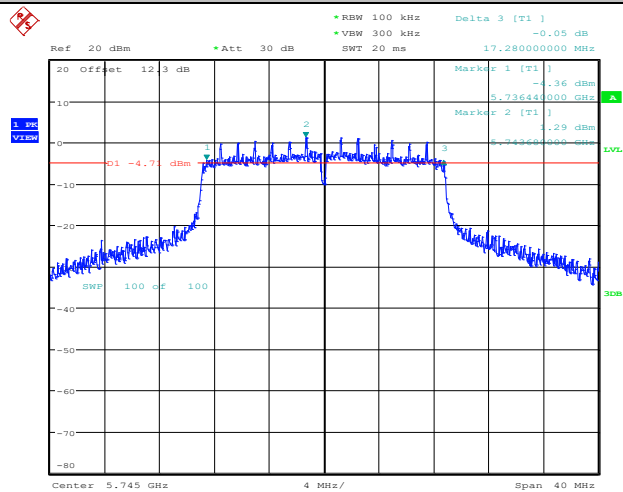
11A_Ant1_5825

The figure displays two spectral plots side-by-side, comparing the performance of two antennas, 11A_Ant1_5745 and 11A_Ant1_5785. Both plots show a signal centered around 5.745 GHz and 5.785 GHz respectively, with markers indicating signal levels at specific frequencies. The plots are generated using a spectrum analyzer with a reference level of 20 dBm, an attenuator of 30 dB, and a sweep time of 20 ms. The resolution bandwidth (RBW) is 100 kHz, and the video bandwidth (VBW) is 300 kHz. The plots show a signal centered around 5.745 GHz and 5.785 GHz respectively, with markers indicating signal levels at specific frequencies. The plots are generated using a spectrum analyzer with a reference level of 20 dBm, an attenuator of 30 dB, and a sweep time of 20 ms. The resolution bandwidth (RBW) is 100 kHz, and the video bandwidth (VBW) is 300 kHz.



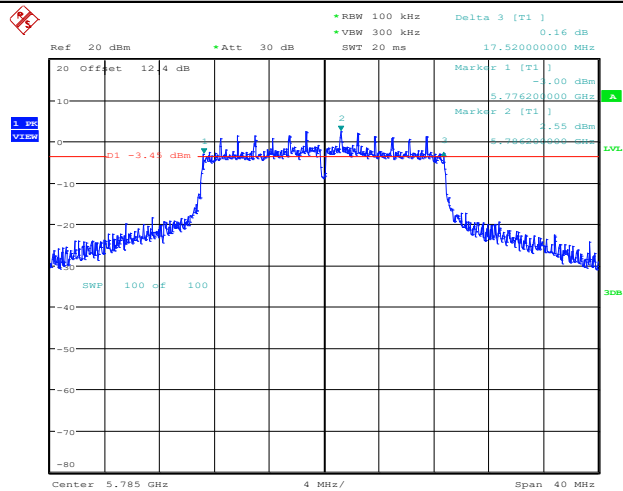
Date: 27.SEP.2024 18:00:56

11N20SISO_Ant1_5745



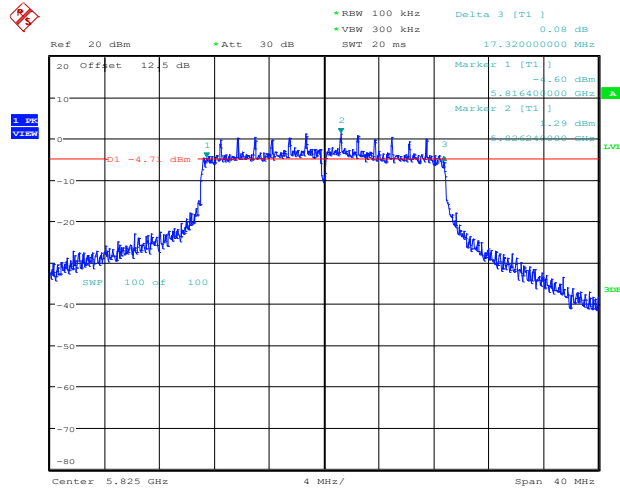
Date: 27.SEP.2024 18:26:20

11N20SISO_Ant1_5785



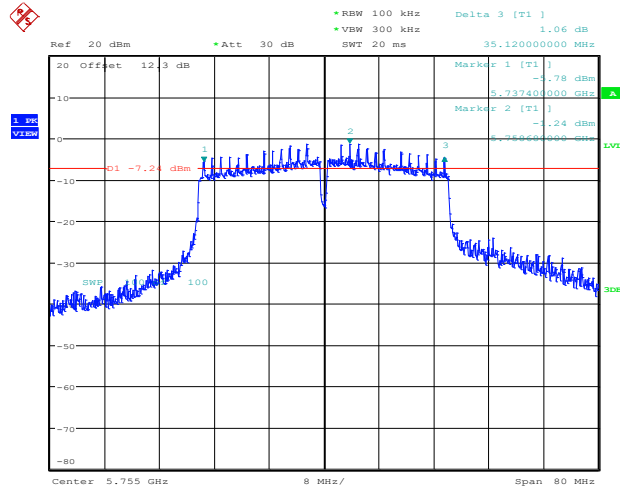
Date: 27.SEP.2024 18:29:29

11N20SISO_Ant1_5825



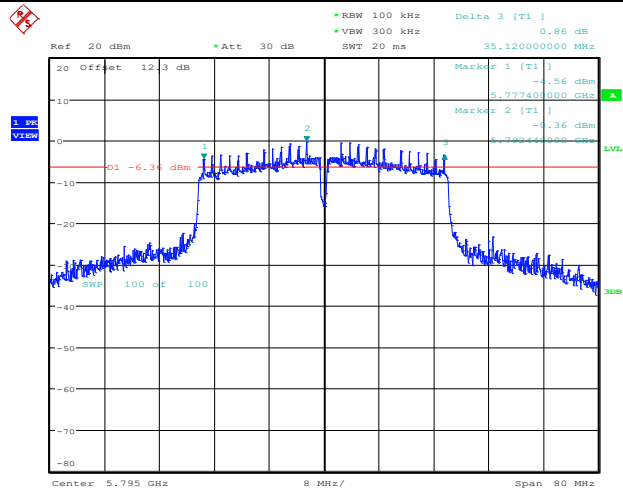
Date: 27.SEP.2024 18:31:54

11N40SISO_Ant1_5755



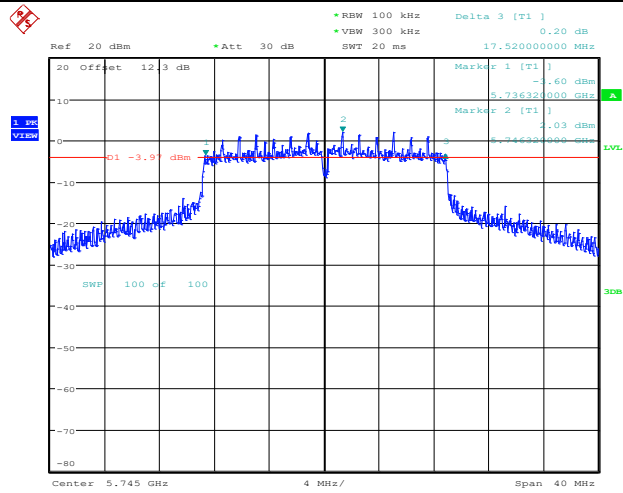
Date: 27.SEP.2024 18:53:53

11N40SISO_Ant1_5795



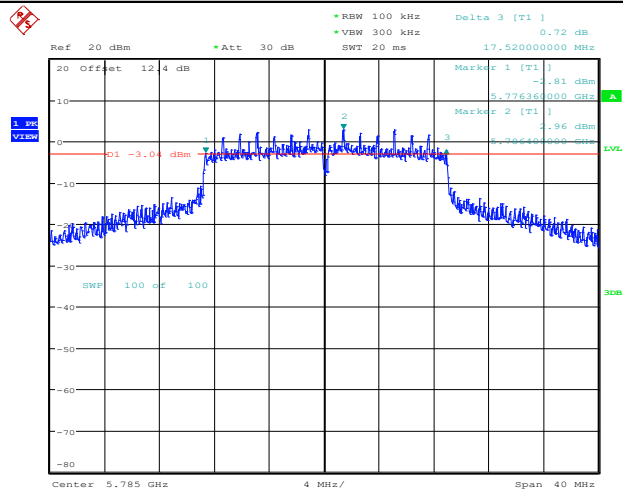
Date: 27.SEP.2024 18:59:02

11AC20SISO_Ant1_5745



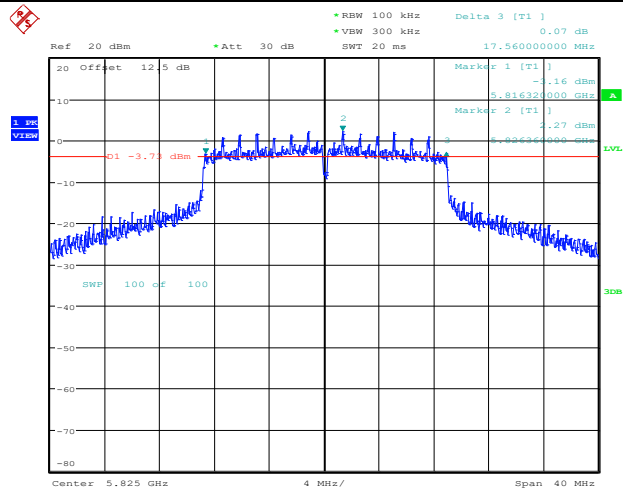
Date: 27.SEP.2024 19:41:06

11AC20SISO_Ant1_5785



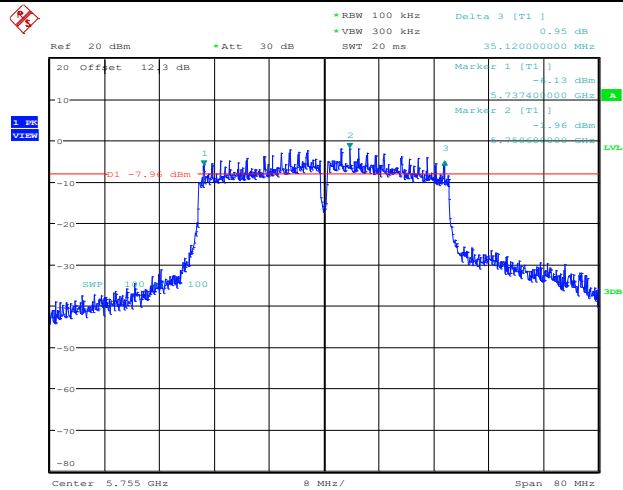
Date: 27.SEP.2024 19:44:09

11AC20SISO_Ant1_5825



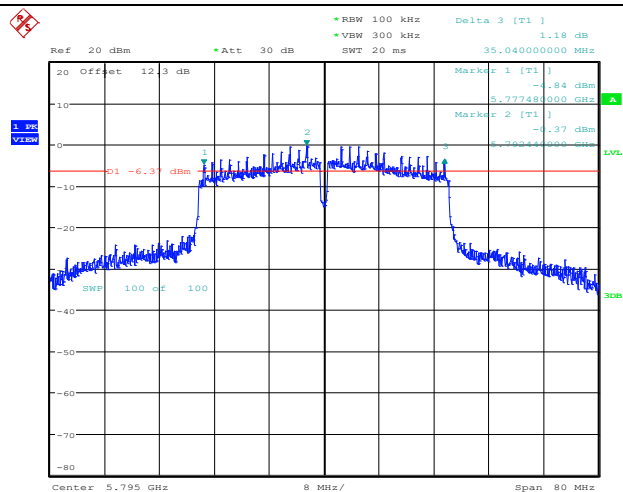
Date: 27.SEP.2024 19:47:04

11AC40SISO_Ant1_5755



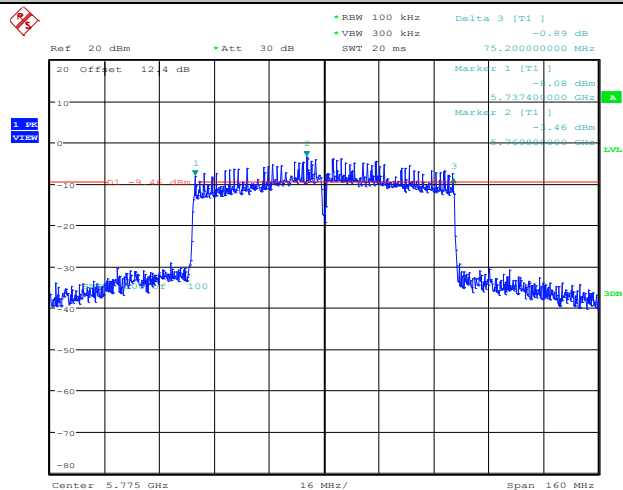
Date: 27.SEP.2024 20:09:23

11AC40SISO_Ant1_5795



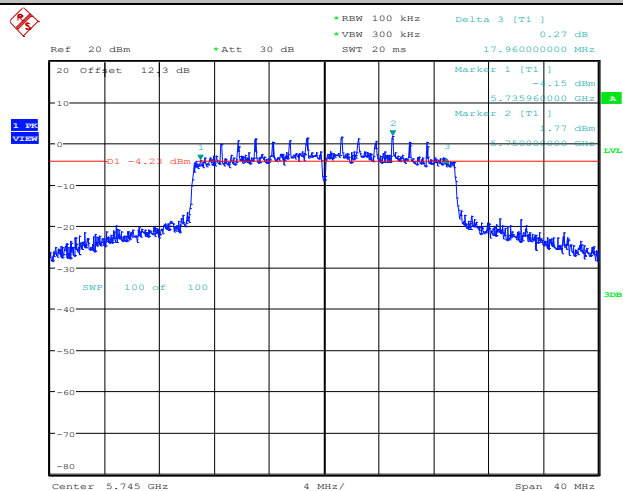
Date: 27.SEP.2024 20:12:55

11AC80SISO_Ant1_5775



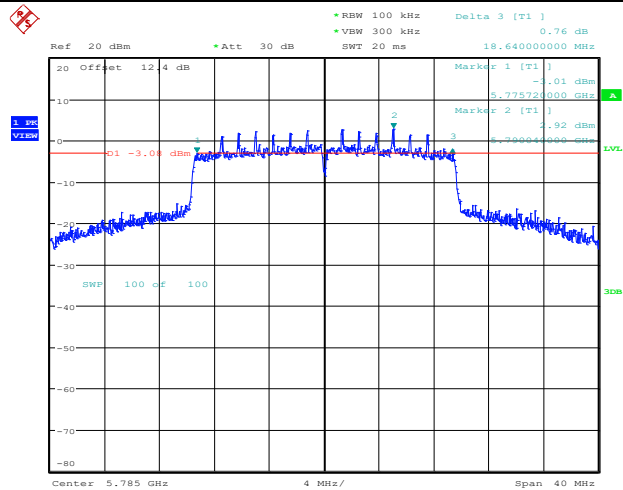
Date: 27.SEP.2024 20:25:24

11AX20SISO_Ant1_5745



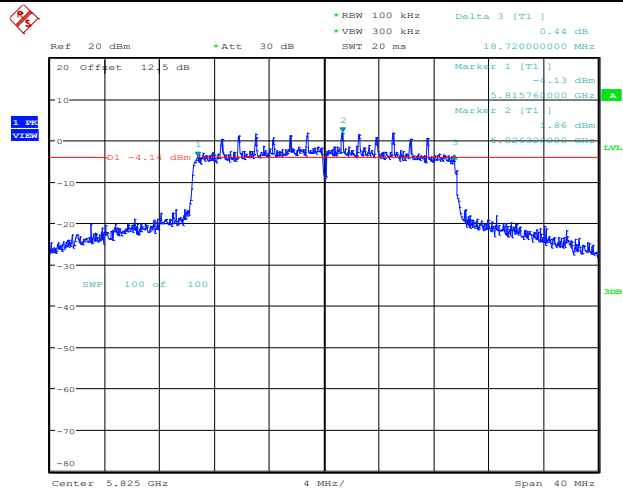
Date: 27.SEP.2024 21:08:37

11AX20SISO_Ant1_5785



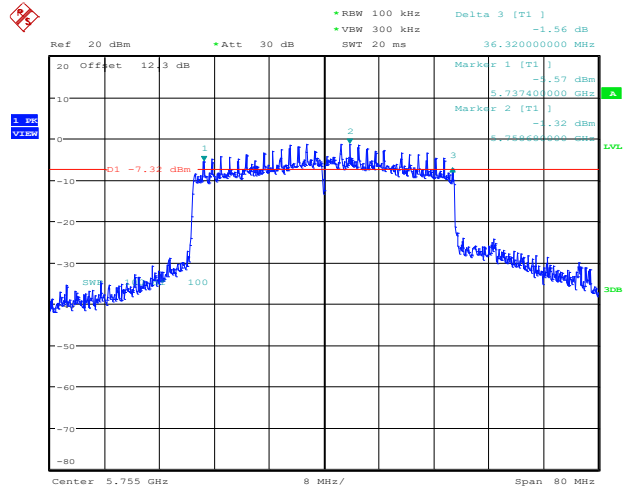
Date: 27.SEP.2024 21:11:50

11AX20SISO_Ant1_5825



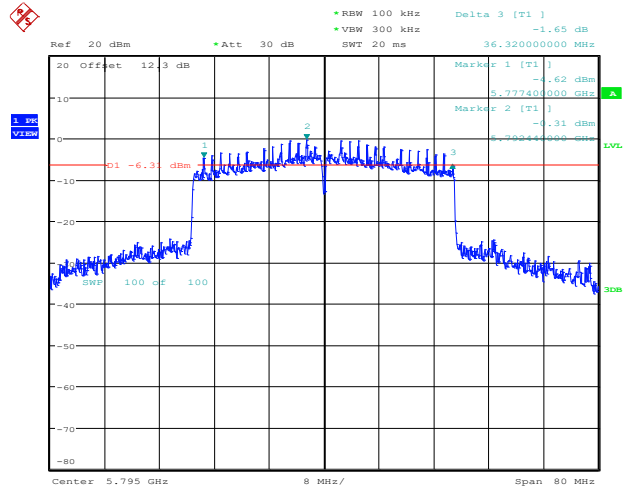
Date: 27.SEP.2024 21:14:30

11AX40SISO_Ant1_5755



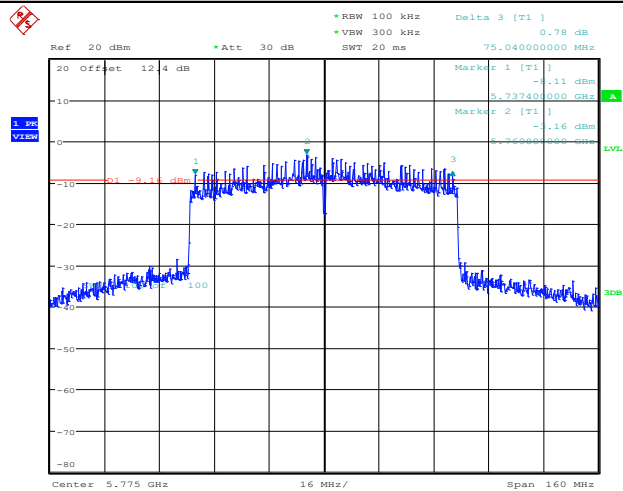
Date: 28.SEP.2024 08:03:55

11AX40ISO_Ant1_5795



Date: 28.SEP.2024 08:07:06

11AX80ISO_Ant1_5775



Date: 28.SEP.2024 08:22:09

Appendix B: Duty Cycle

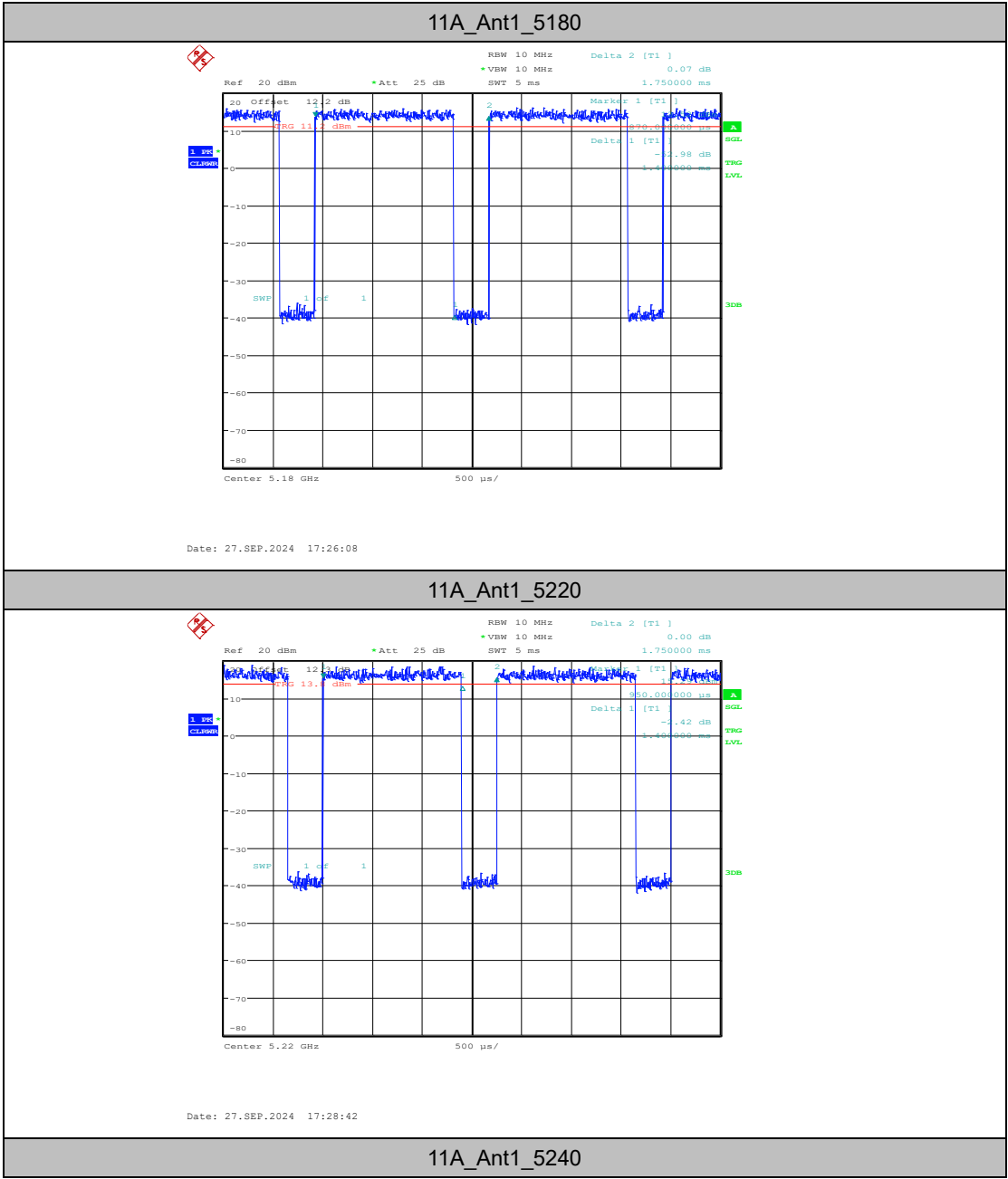
Test Result

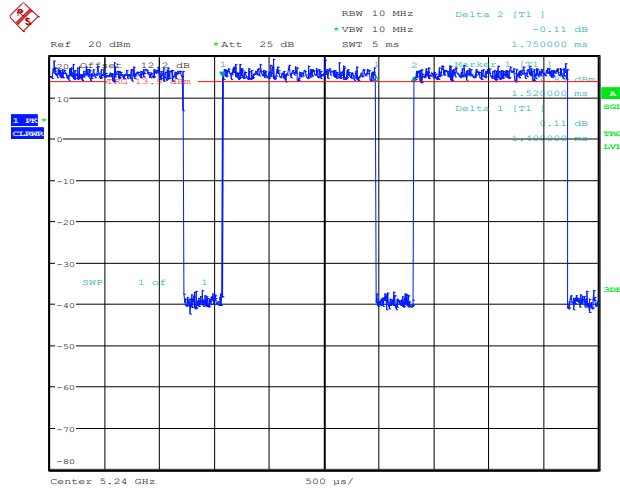
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	1.75	80.00	---	---
		5220	1.40	1.75	80.00	---	---
		5240	1.40	1.75	80.00	---	---
		5260	1.40	1.75	80.00	---	---
		5300	1.40	1.76	79.55	---	---
		5320	1.40	1.75	80.00	---	---
		5500	1.40	1.75	80.00	---	---
		5580	1.40	1.75	80.00	---	---
		5700	1.40	1.75	80.00	---	---
		5745	1.40	1.75	80.00	---	---
		5785	1.40	1.75	80.00	---	---
		5825	1.40	1.75	80.00	---	---
11N20SISO	Ant1	5180	1.31	1.66	78.92	---	---
		5220	1.30	1.65	78.79	---	---
		5240	1.31	1.66	78.92	---	---
		5260	1.31	1.66	78.92	---	---
		5300	1.31	1.66	78.92	---	---
		5320	1.31	1.66	78.92	---	---
		5500	1.30	1.66	78.31	---	---
		5580	1.30	1.66	78.31	---	---
		5700	1.30	1.66	78.31	---	---
		5745	1.31	1.66	78.92	---	---
		5785	1.31	1.66	78.92	---	---
		5825	1.30	1.66	78.31	---	---
11N40SISO	Ant1	5190	0.64	0.99	64.65	---	---
		5230	0.64	0.98	65.31	---	---
		5270	0.65	0.99	65.66	---	---
		5310	0.65	0.99	65.66	---	---
		5510	0.65	0.99	65.66	---	---
		5550	0.65	0.99	65.66	---	---
		5670	0.64	0.98	65.31	---	---
		5755	0.65	0.98	66.33	---	---
		5795	0.65	0.99	65.66	---	---
11AC20SISO	Ant1	5180	0.68	1.04	65.38	---	---

		5220	0.69	1.05	65.71	---	---
		5240	0.68	1.04	65.38	---	---
		5260	0.68	1.04	65.38	---	---
		5300	0.68	1.04	65.38	---	---
		5320	0.68	1.04	65.38	---	---
		5500	0.68	1.04	65.38	---	---
		5580	0.68	1.04	65.38	---	---
		5700	0.68	1.04	65.38	---	---
		5745	0.68	1.04	65.38	---	---
		5785	0.69	1.05	65.71	---	---
		5825	0.68	1.04	65.38	---	---
11AC40SISO	Ant1	5190	0.35	0.71	49.30	---	---
		5230	0.35	0.71	49.30	---	---
		5270	0.35	0.71	49.30	---	---
		5310	0.35	0.71	49.30	---	---
		5510	0.35	0.71	49.30	---	---
		5550	0.35	0.70	50.00	---	---
		5670	0.35	0.71	49.30	---	---
		5755	0.35	0.71	49.30	---	---
		5795	0.35	0.71	49.30	---	---
11AC80SISO	Ant1	5210	0.19	0.52	36.54	---	---
		5290	0.18	0.52	34.62	---	---
		5530	0.19	0.52	36.54	---	---
		5775	0.19	0.53	35.85	---	---
11AC160SISO	Ant1	5250	0.12	0.47	25.53	---	---
		5570	0.11	0.46	23.91	---	---
11AX20SISO	Ant1	5180	0.56	0.92	60.87	---	---
		5220	0.56	0.92	60.87	---	---
		5240	0.56	0.92	60.87	---	---
		5260	0.56	0.92	60.87	---	---
		5300	0.56	0.92	60.87	---	---
		5320	0.56	0.92	60.87	---	---
		5500	0.56	0.92	60.87	---	---
		5580	0.56	0.93	60.22	---	---
		5700	0.56	0.93	60.22	---	---
		5745	0.56	0.92	60.87	---	---
		5785	0.56	0.93	60.22	---	---
		5825	0.56	0.92	60.87	---	---
11AX40SISO	Ant1	5190	0.21	0.53	39.62	---	---
		5230	0.21	0.53	39.62	---	---
		5270	0.20	0.53	37.74	---	---
		5310	0.20	0.53	37.74	---	---
		5510	0.21	0.53	39.62	---	---

		5550	0.21	0.53	39.62	---	---
		5670	0.21	0.53	39.62	---	---
		5755	0.21	0.53	39.62	---	---
		5795	0.21	0.53	39.62	---	---
11AX80SISO	Ant1	5210	0.19	0.56	33.93	---	---
		5290	0.20	0.56	35.71	---	---
		5530	0.19	0.55	34.55	---	---
		5775	0.19	0.56	33.93	---	---
11AX160SISO	Ant1	5250	0.13	0.49	26.53	---	---
		5570	0.14	0.50	28.00	---	---

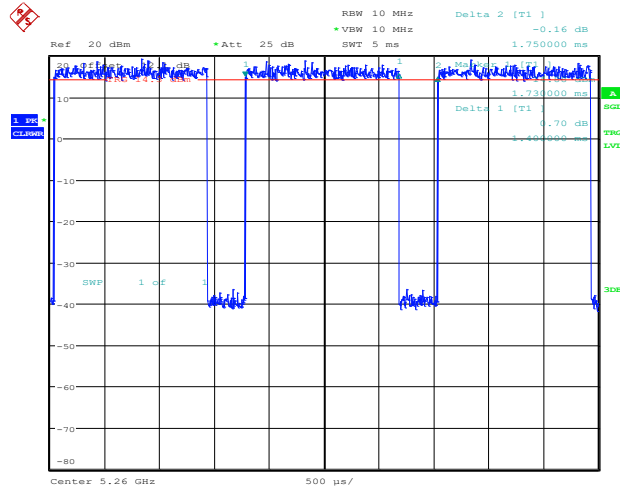
Test Graphs





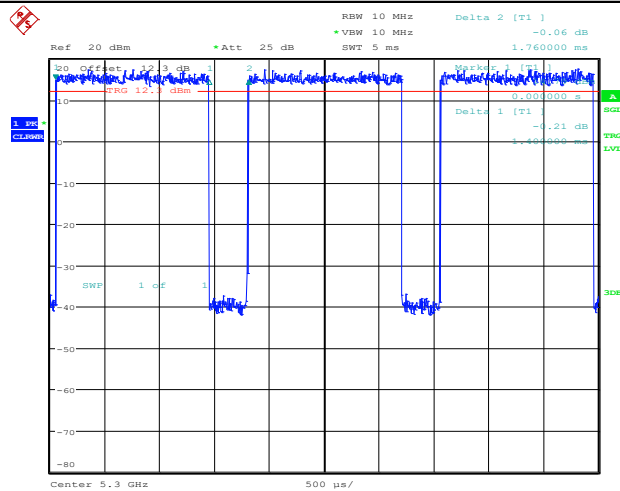
Date: 27.SEP.2024 17:33:43

11A_Ant1_5260



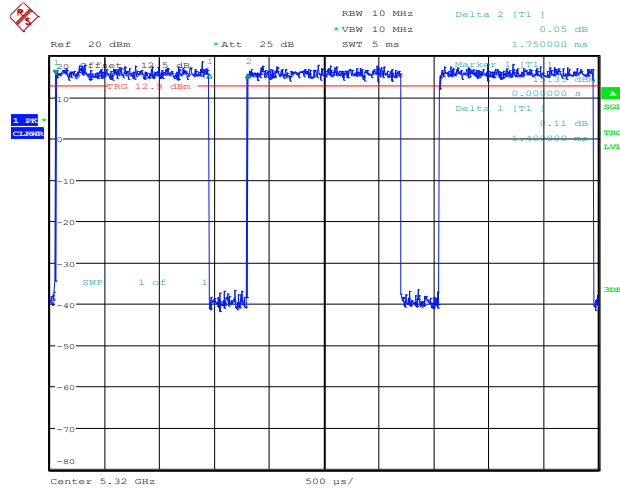
Date: 27.SEP.2024 17:35:51

11A_Ant1_5300



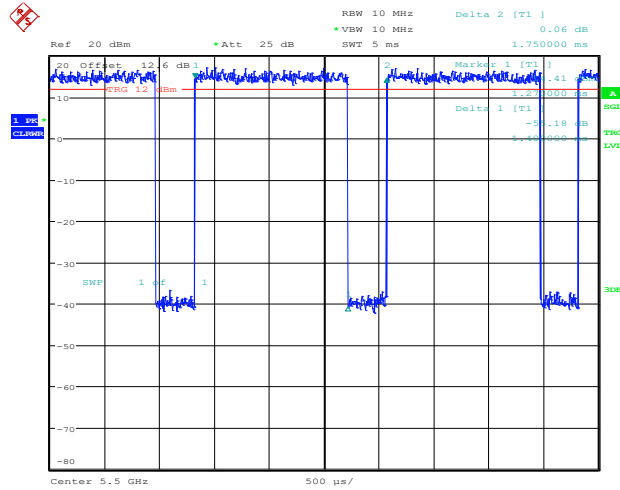
Date: 27.SEP.2024 17:38:02

11A_Ant1_5320



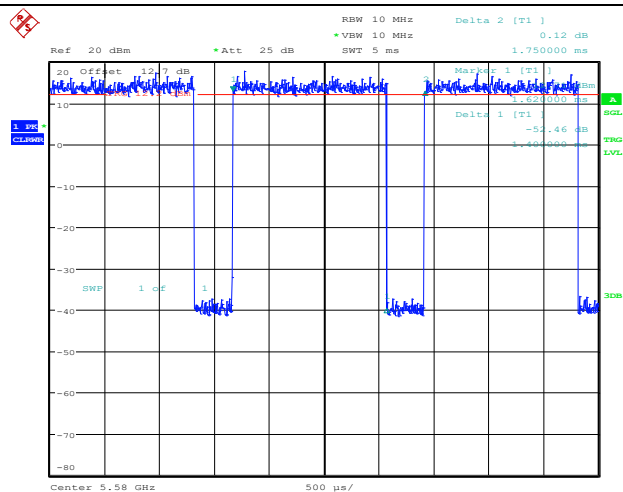
Date: 27.SEP.2024 17:40:07

11A_Ant1_5500



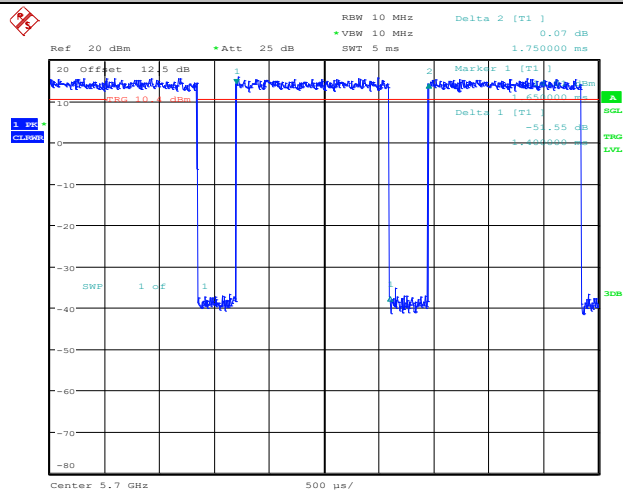
Date: 27.SEP.2024 17:43:19

11A_Ant1_5580



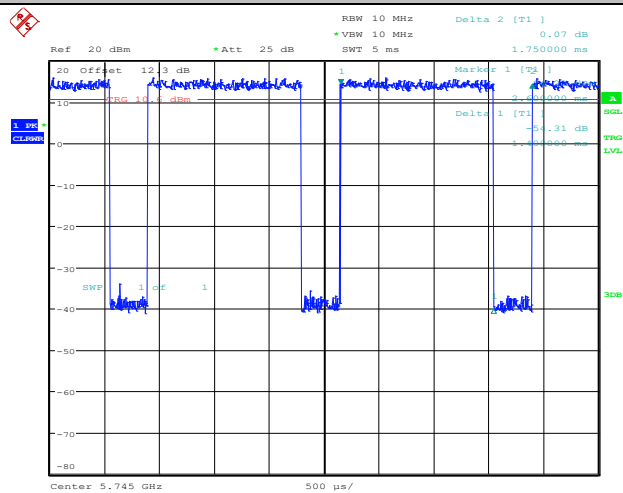
Date: 27.SEP.2024 17:46:16

11A_Ant1_5700



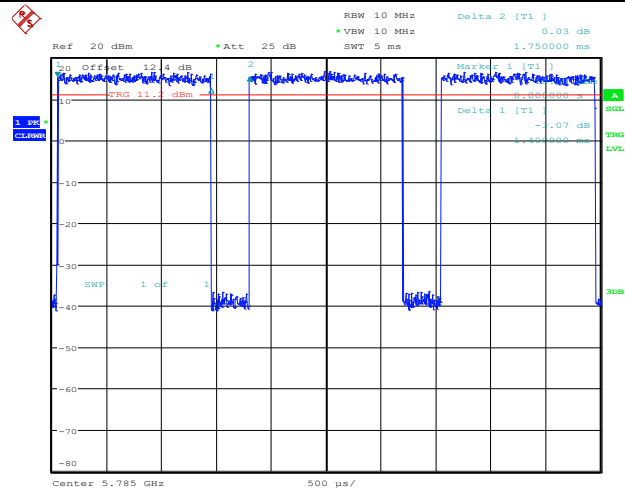
Date: 27.SEP.2024 17:52:35

11A_Ant1_5745



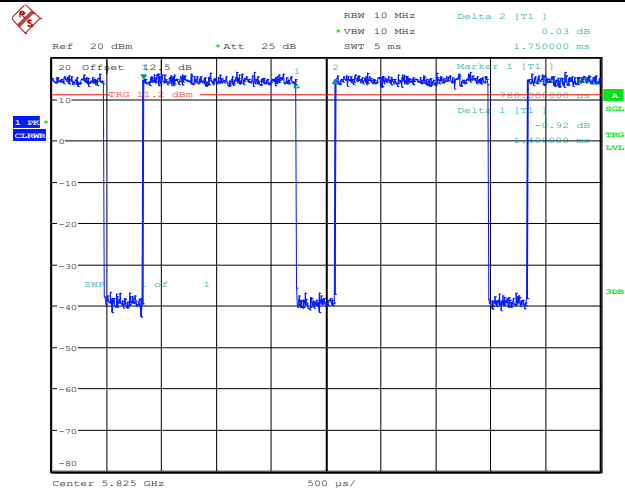
Date: 27.SEP.2024 17:55:46

11A_Ant1_5785



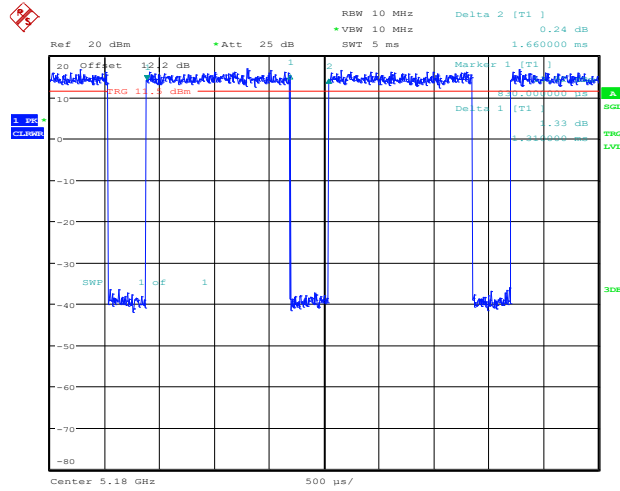
Date: 27.SEP.2024 17:58:52

11A_Ant1_5825



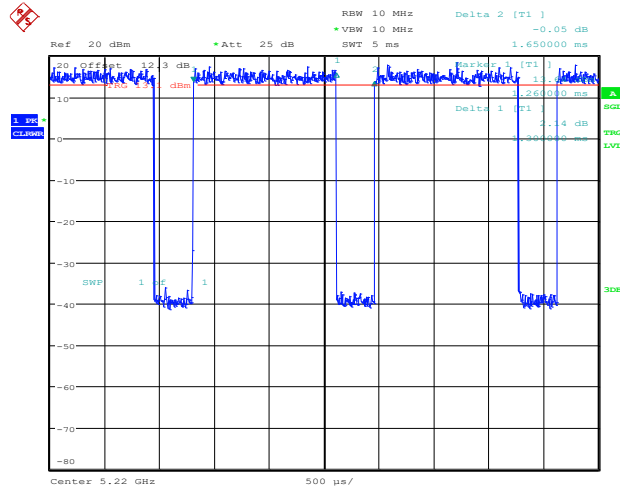
Date: 27.SEP.2024 18:01:24

11N20SISO_Ant1_5180



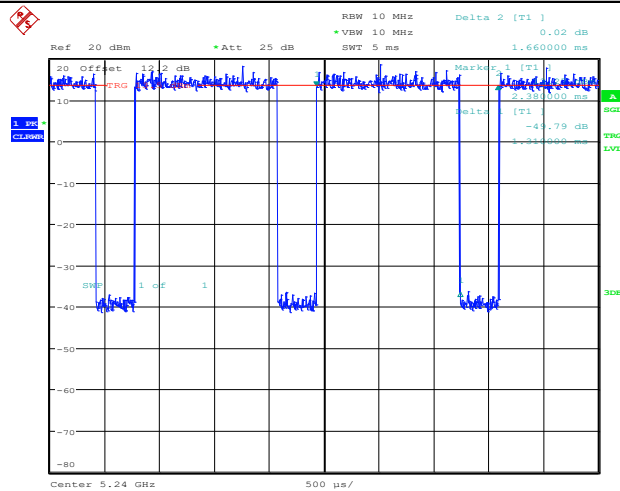
Date: 27.SEP.2024 18:04:13

11N20SISO_Ant1_5220



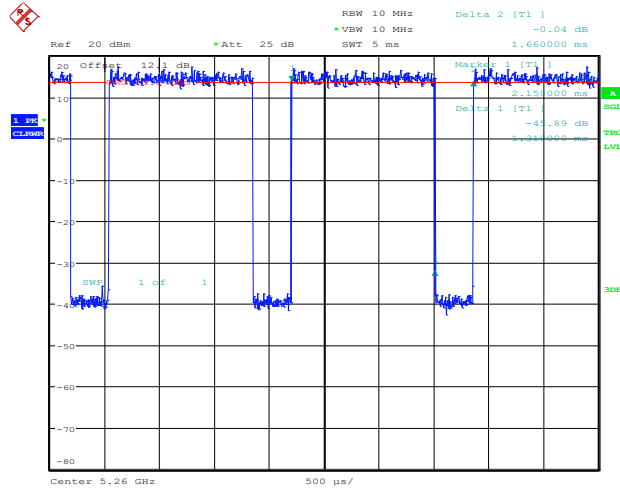
Date: 27.SEP.2024 18:06:53

11N20SISO_Ant1_5240



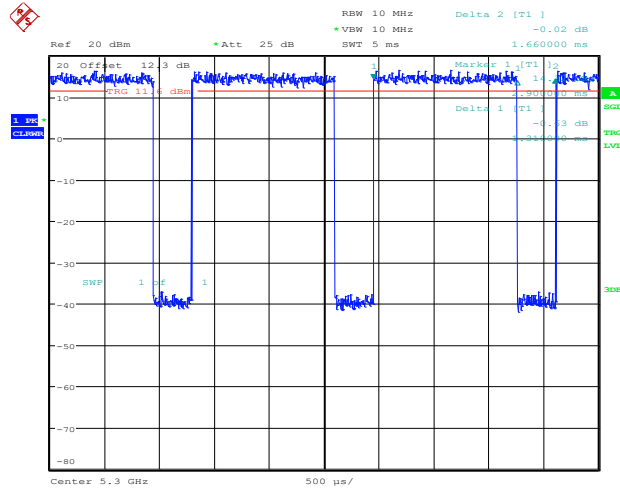
Date: 27.SEP.2024 18:09:17

11N20SISO_Ant1_5260



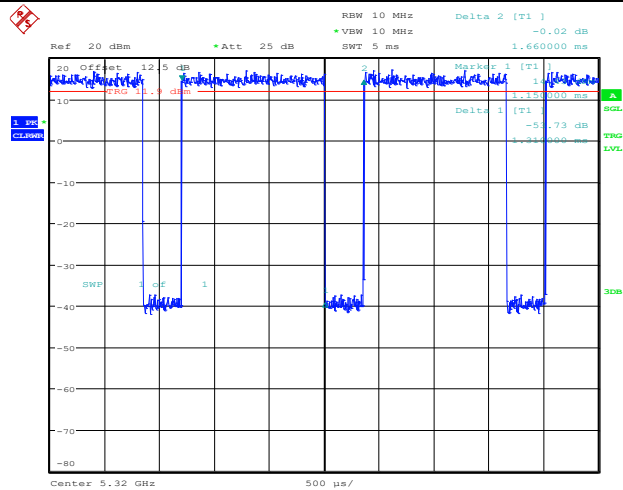
Date: 27.SEP.2024 18:11:30

11N20SISO_Ant1_5300



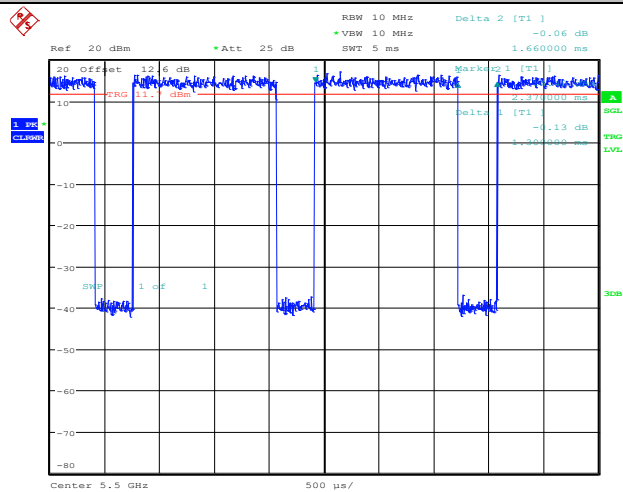
Date: 27.SEP.2024 18:14:12

11N20SISO_Ant1_5320



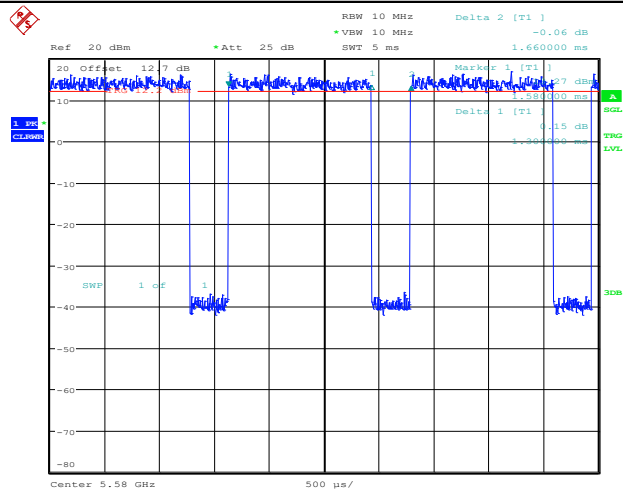
Date: 27.SEP.2024 18:16:19

11N20SISO_Ant1_5500



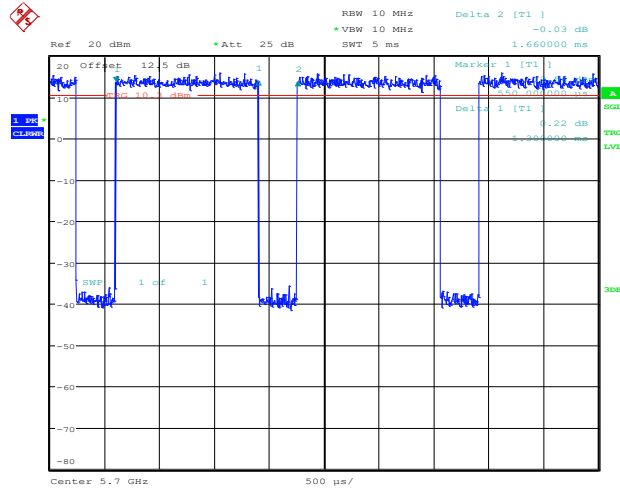
Date: 27.SEP.2024 18:19:00

11N20SISO_Ant1_5580



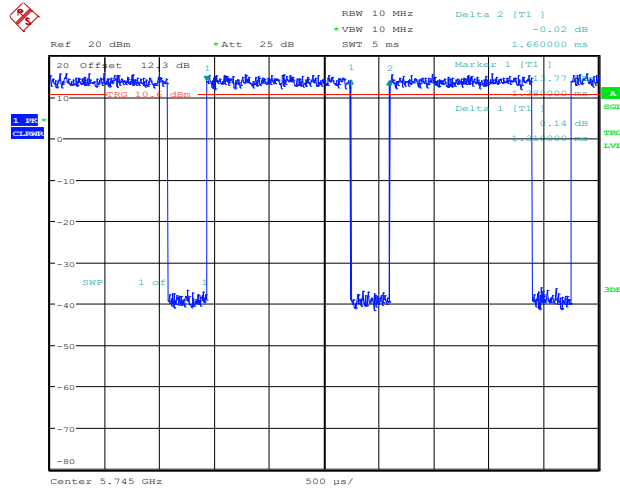
Date: 27.SEP.2024 18:21:42

11N20SISO_Ant1_5700



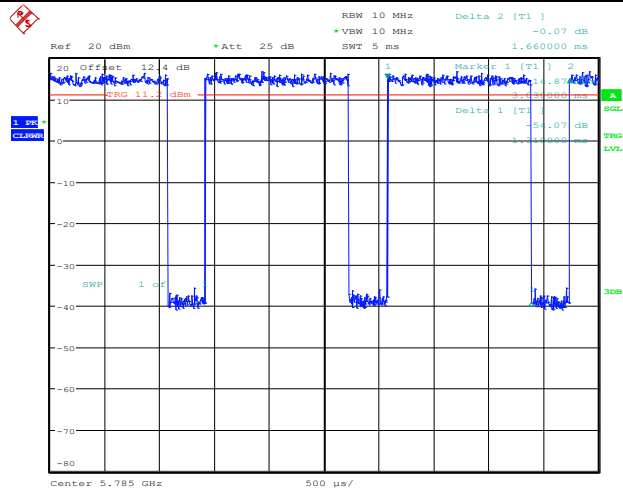
Date: 27.SEP.2024 18:23:53

11N20SISO_Ant1_5745



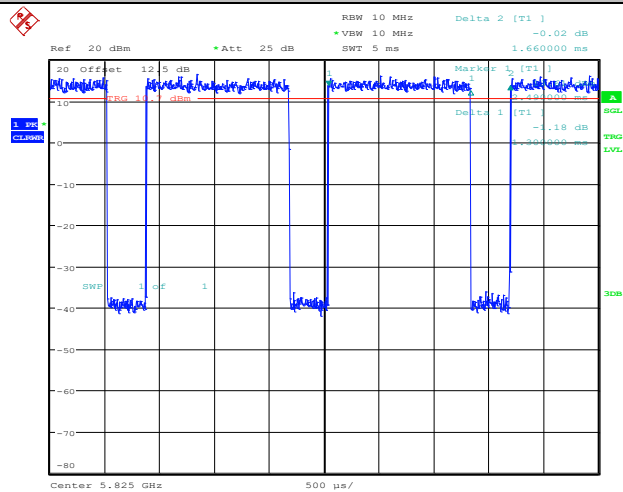
Date: 27.SEP.2024 18:26:49

11N20SISO_Ant1_5785



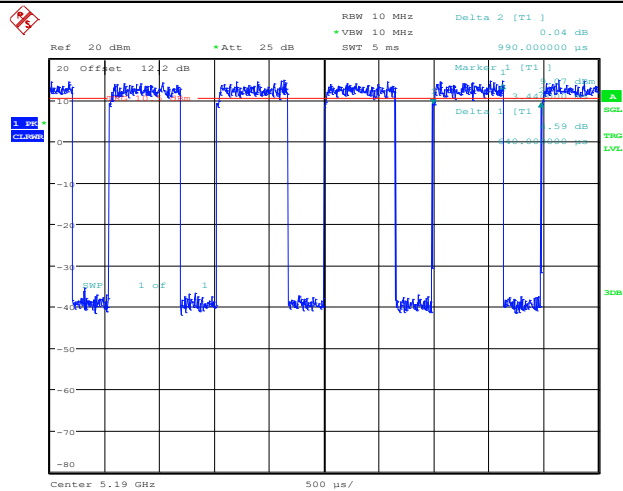
Date: 27.SEP.2024 18:29:57

11N20SISO_Ant1_5825



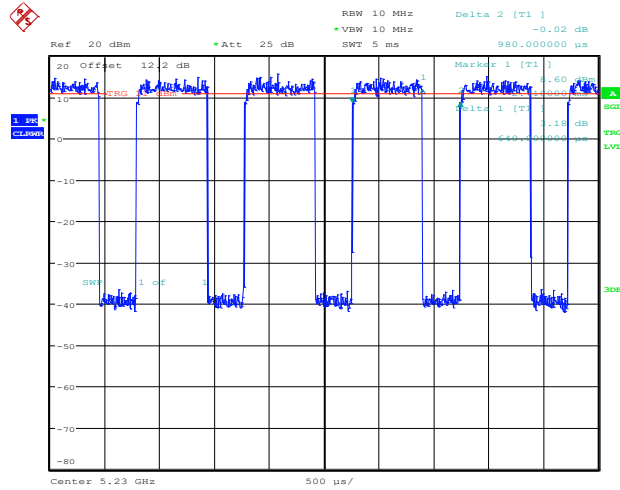
Date: 27.SEP.2024 18:32:22

11N40SISO_Ant1_5190



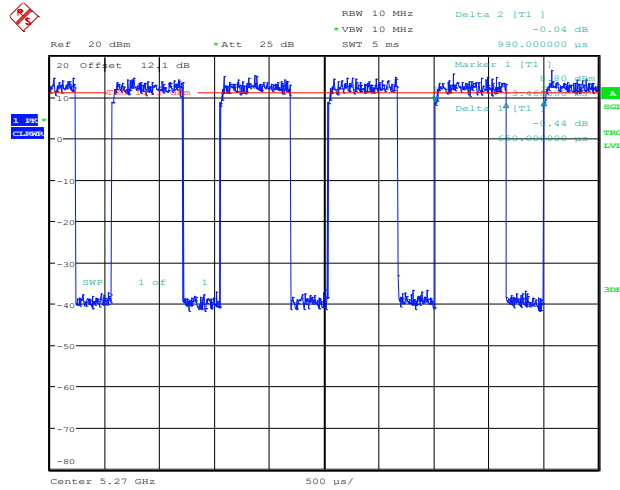
Date: 27.SEP.2024 18:35:24

11N40SISO_Ant1_5230



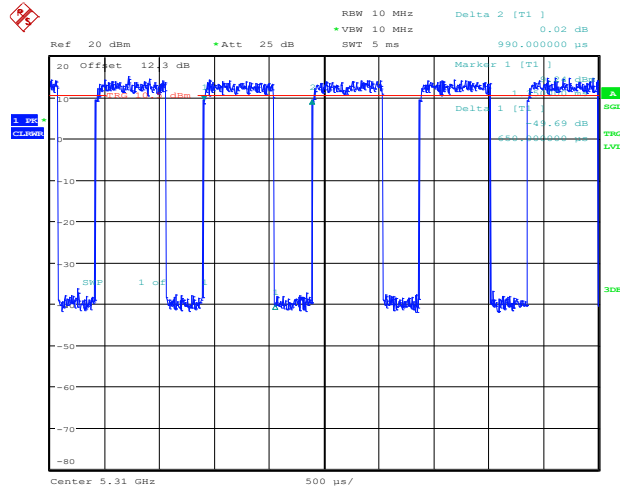
Date: 27.SEP.2024 18:38:03

11N40SISO_Ant1_5270



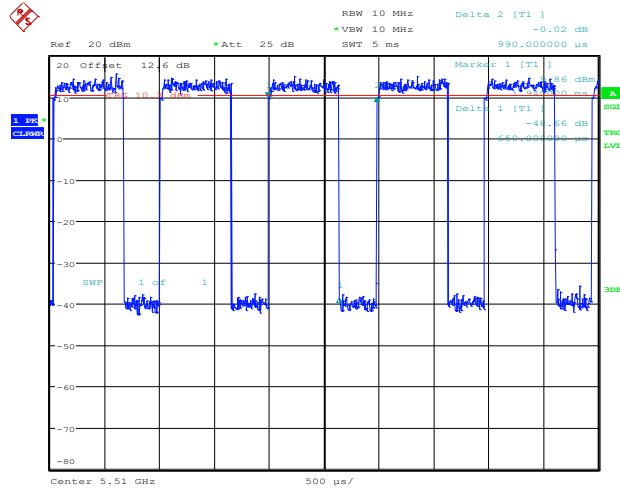
Date: 27.SEP.2024 18:40:19

11N40SISO_Ant1_5310



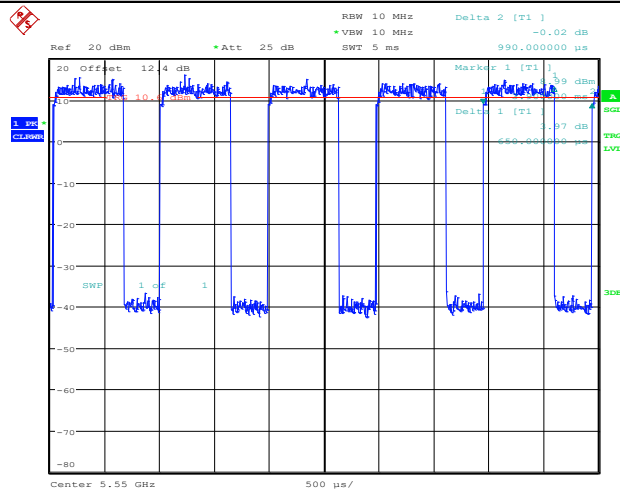
Date: 27.SEP.2024 18:42:29

11N40SISO_Ant1_5510



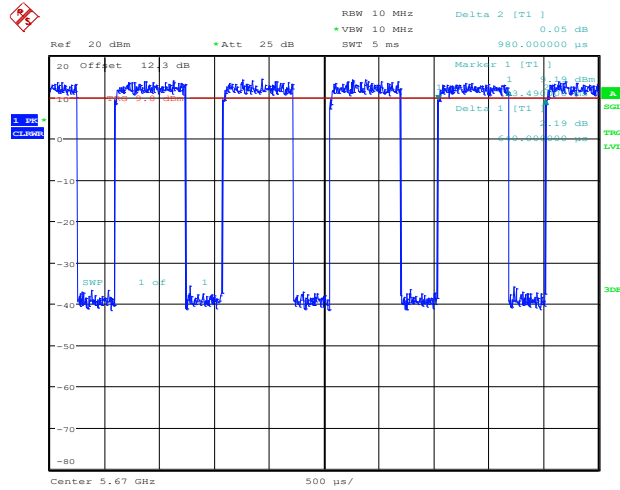
Date: 27.SEP.2024 18:45:11

11N40SISO_Ant1_5550



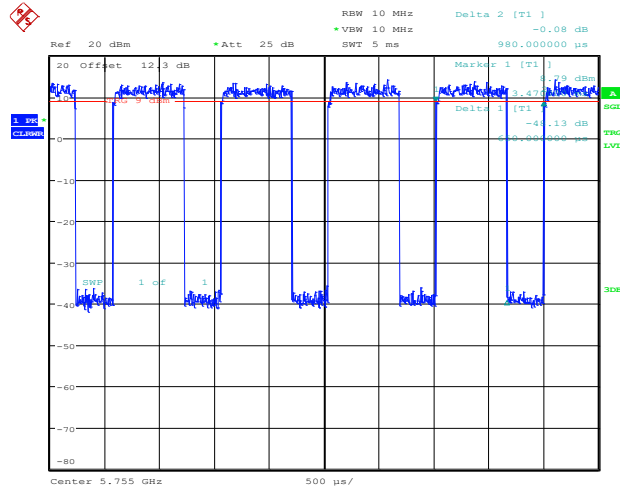
Date: 27.SEP.2024 18:47:50

11N40SISO_Ant1_5670



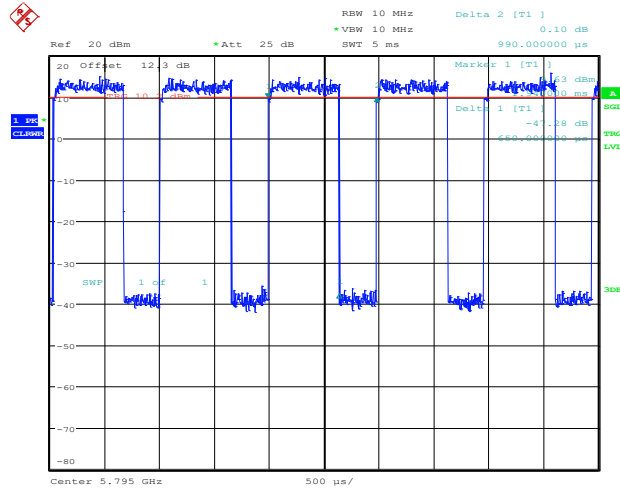
Date: 27.SEP.2024 18:50:57

11N40SISO_Ant1_5755



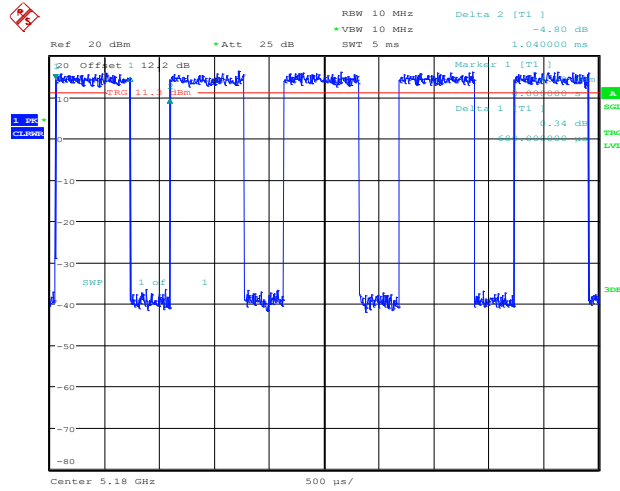
Date: 27.SEP.2024 18:54:21

11N40SISO_Ant1_5795



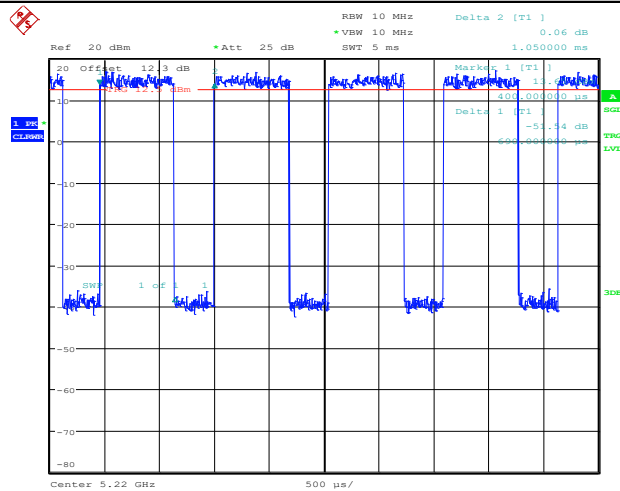
Date: 27.SEP.2024 18:59:30

11AC20SISO_Ant1_5180



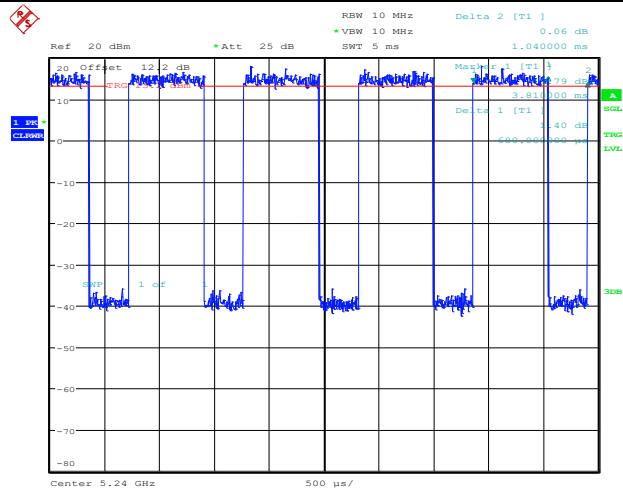
Date: 27.SEP.2024 19:02:34

11AC20SISO_Ant1_5220



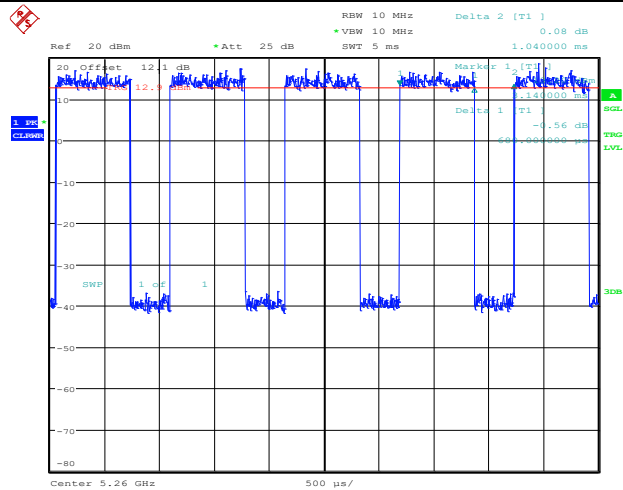
Date: 27.SEP.2024 19:05:26

11AC20SISO_Ant1_5240



Date: 27.SEP.2024 19:08:32

11AC20SISO_Ant1_5260



Date: 27.SEP.2024 19:24:34

11AC20SISO_Ant1_5300

