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	38.20	5160.88	5199.08	---	---
		5220	23.04	5208.48	5231.52	---	---
		5240	21.72	5229.04	5250.76	---	---
		5260	26.64	5247.00	5273.64	---	---
		5300	31.40	5284.28	5315.68	---	---
		5320	28.84	5304.80	5333.64	---	---
		5500	28.64	5486.68	5515.32	---	---
		5580	24.36	5567.48	5591.84	---	---
		5700	28.44	5683.76	5712.20	---	---
		5745	31.20	5731.68	5762.88	---	---
		5785	39.60	5765.04	5804.64	---	---
		5825	33.88	5808.12	5842.00	---	---
11N20SISO	Ant1	5180	31.40	5165.76	5197.16	---	---
		5220	27.00	5207.72	5234.72	---	---
		5240	24.36	5227.92	5252.28	---	---
		5260	22.16	5248.84	5271.00	---	---
		5300	31.96	5284.56	5316.52	---	---
		5320	30.40	5304.16	5334.56	---	---
		5500	32.72	5484.68	5517.40	---	---
		5580	24.12	5567.60	5591.72	---	---
		5700	29.76	5682.72	5712.48	---	---
		5745	34.64	5727.88	5762.52	---	---
		5785	36.80	5766.20	5803.00	---	---
		5825	32.52	5808.92	5841.44	---	---
11N40SISO	Ant1	5190	59.76	5163.68	5223.44	---	---
		5230	43.60	5207.68	5251.28	---	---
		5270	41.44	5249.20	5290.64	---	---
		5310	59.36	5275.92	5335.28	---	---
		5510	59.12	5483.04	5542.16	---	---
		5550	60.64	5515.12	5575.76	---	---
		5670	71.12	5631.76	5702.88	---	---
		5755	55.44	5733.80	5789.24	---	---
		5795	77.68	5755.64	5833.32	---	---
11AC20SISO	Ant1	5180	31.44	5165.00	5196.44	---	---
		5220	26.72	5207.04	5233.76	---	---
		5240	20.72	5229.44	5250.16	---	---
		5260	21.76	5249.08	5270.84	---	---

		5300	35.04	5283.04	5318.08	---	---
		5320	29.68	5304.00	5333.68	---	---
		5500	31.16	5485.56	5516.72	---	---
		5580	35.36	5561.80	5597.16	---	---
		5700	33.20	5681.16	5714.36	---	---
		5745	38.52	5725.28	5763.80	---	---
		5785	39.92	5765.04	5804.96	---	---
		5825	39.84	5805.04	5844.88	---	---
11AC40SISO	Ant1	5190	55.52	5164.00	5219.52	---	---
		5230	40.72	5209.60	5250.32	---	---
		5270	40.56	5249.76	5290.32	---	---
		5310	52.40	5282.48	5334.88	---	---
		5510	52.40	5484.96	5537.36	---	---
		5550	52.40	5522.56	5574.96	---	---
		5670	67.60	5634.88	5702.48	---	---
		5755	57.20	5731.80	5789.00	---	---
		5795	68.72	5758.92	5827.64	---	---
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		5290	110.88	5227.12	5338.00	---	---
		5530	116.16	5481.52	5597.68	---	---
		5775	148.80	5700.76	5849.56	---	---
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		5250_UNII-1	82.56	5167.44	5250	---	---
		5250_UNII-2A	89.92	5250	5339.92	---	---
		5570	173.76	5482.32	5656.08	---	---
11AX20SISO	Ant1	5180	32.12	5164.68	5196.80	---	---
		5220	23.76	5208.52	5232.28	---	---
		5240	20.00	5229.96	5249.96	---	---
		5260	21.72	5249.20	5270.92	---	---
		5300	33.00	5282.44	5315.44	---	---
		5320	30.40	5303.92	5334.32	---	---
		5500	30.32	5484.92	5515.24	---	---
		5580	24.88	5567.92	5592.80	---	---
		5700	39.72	5680.24	5719.96	---	---
		5745	39.88	5725.04	5764.92	---	---
		5785	39.92	5765.04	5804.96	---	---
		5825	38.96	5805.48	5844.44	---	---
11AX40SISO	Ant1	5190	50.00	5166.56	5216.56	---	---
		5230	39.76	5210.16	5249.92	---	---
		5270	39.84	5250.00	5289.84	---	---
		5310	52.72	5282.08	5334.80	---	---

		5510	51.92	5484.00	5535.92	---	---
		5550	40.80	5529.04	5569.84	---	---
		5670	65.76	5635.60	5701.36	---	---
		5755	57.92	5732.12	5790.04	---	---
		5795	69.92	5756.76	5826.68	---	---
11AX80SISO	Ant1	5210	100.96	5166.96	5267.92	---	---
		5290	95.20	5236.72	5331.92	---	---
		5530	103.36	5484.08	5587.44	---	---
		5775	135.36	5707.16	5842.52	---	---
11AX160SISO	Ant1	5250	167.04	5168.40	5335.44	---	---
		5250_UNII-1	81.6	5168.40	5250	---	---
		5250_UNII-2A	85.44	5250	5335.44	---	---
		5570	167.36	5486.48	5653.84	---	---

Test Graphs

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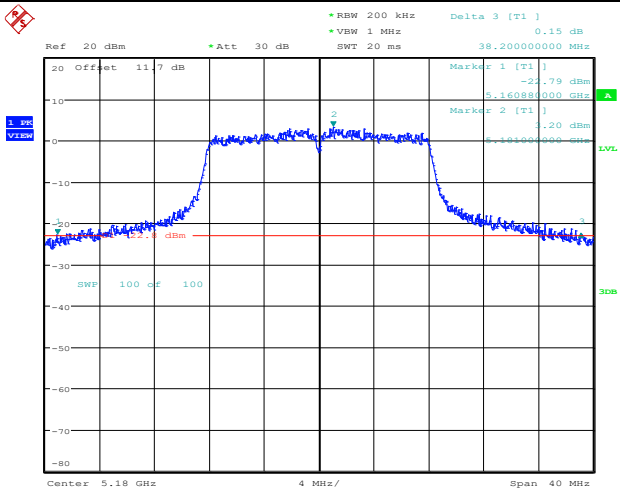 Date: 26.SEP.2024 14:00:00
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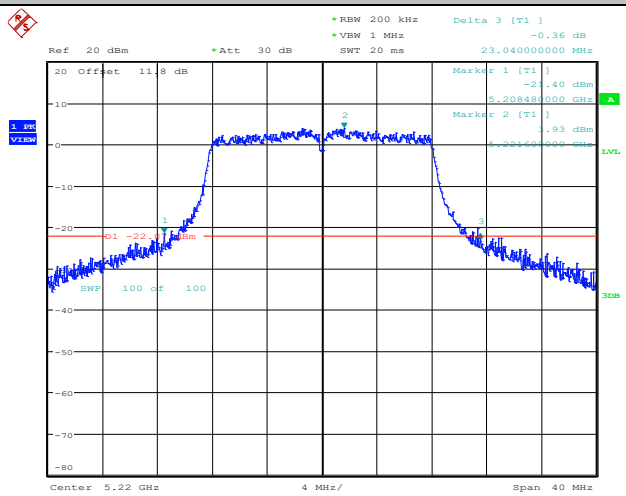 Date: 26.SEP.2024 14:02:45
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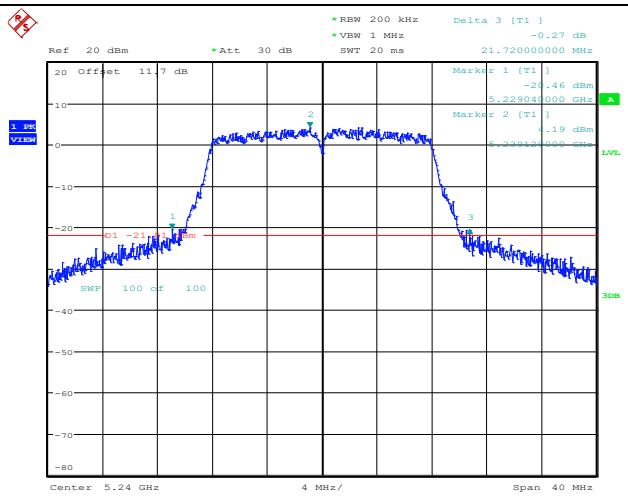

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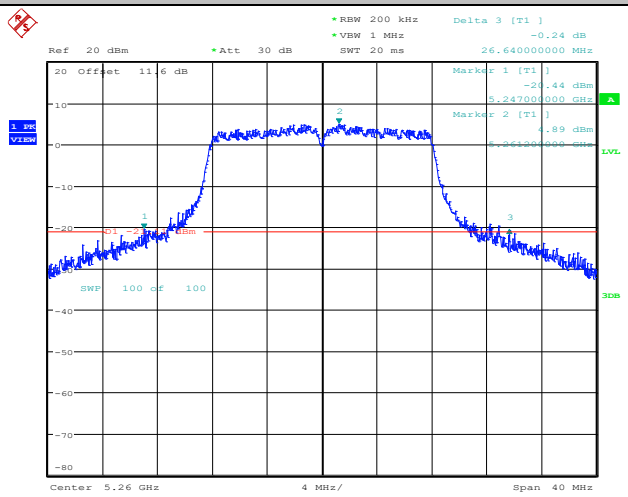

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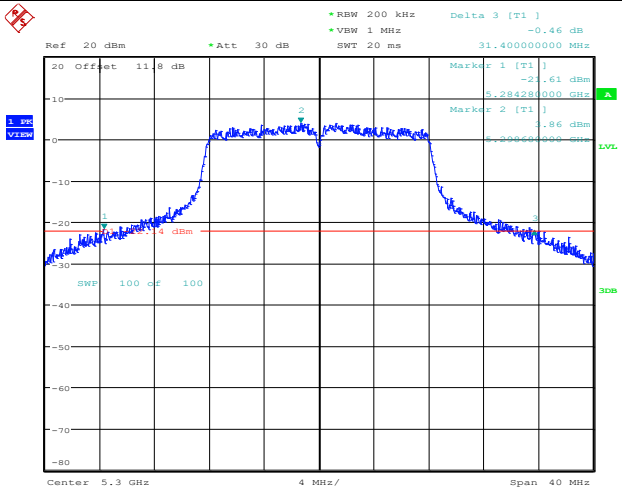

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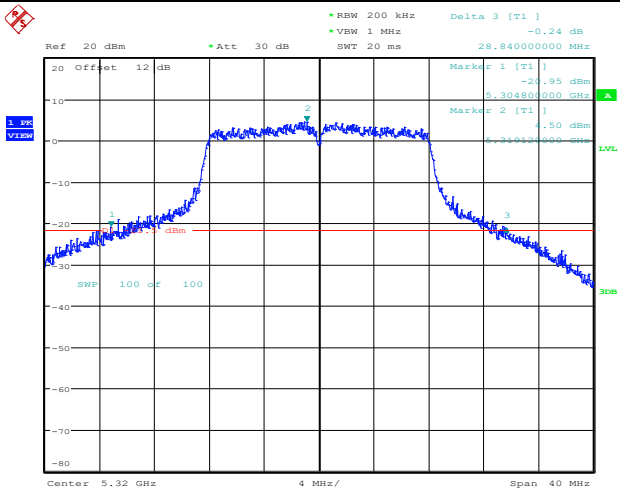

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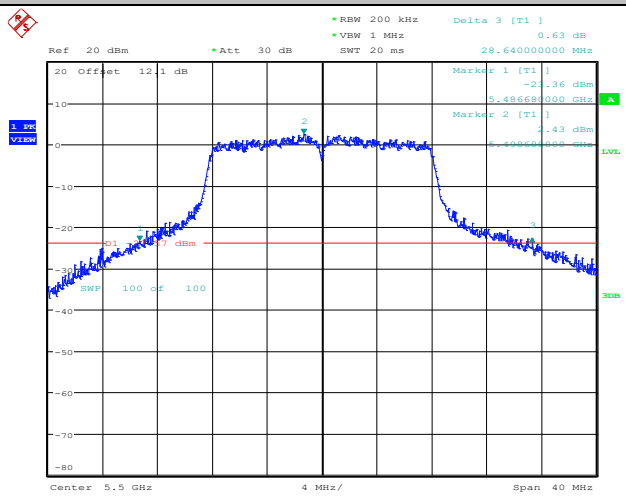

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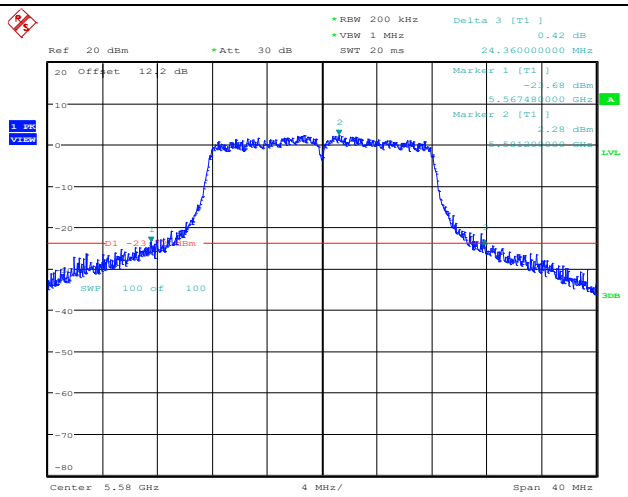

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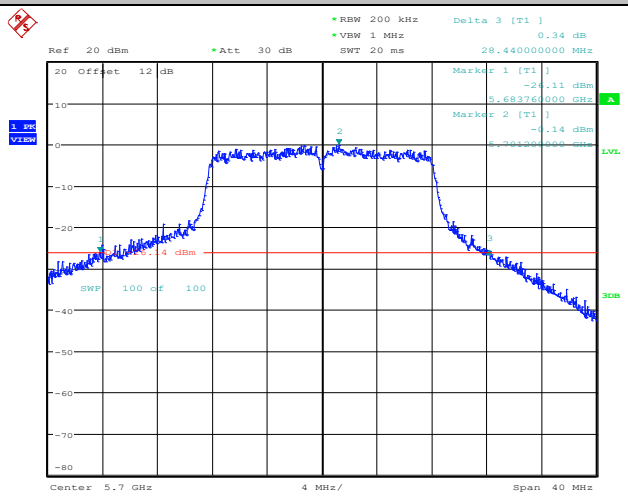

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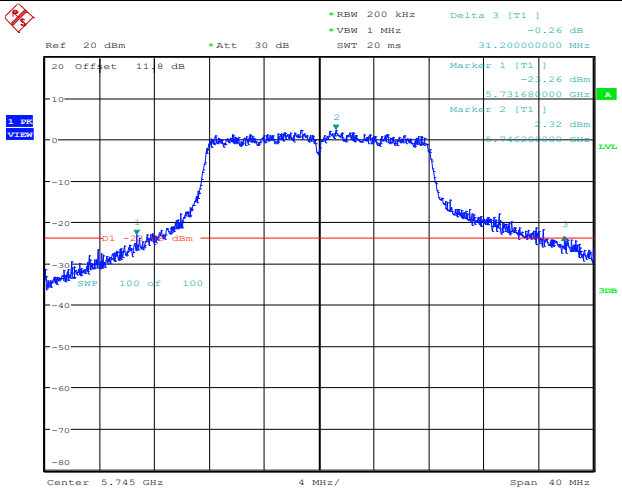

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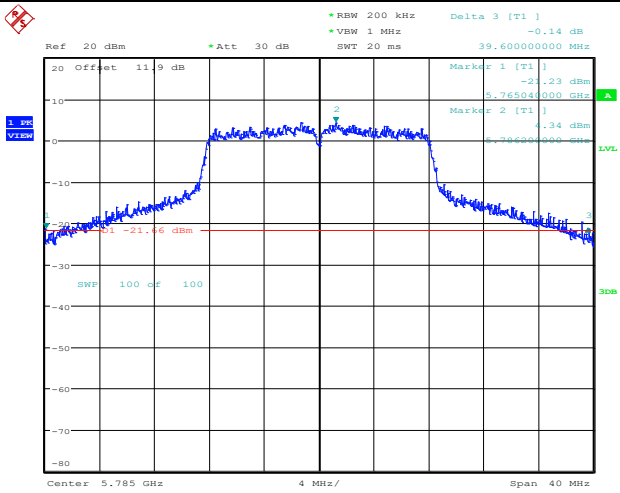

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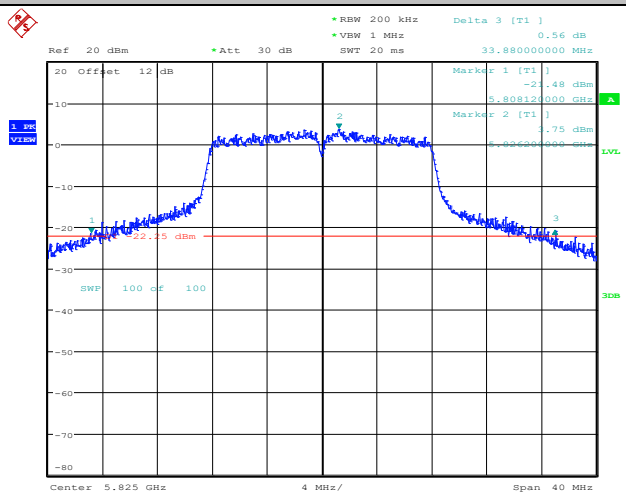

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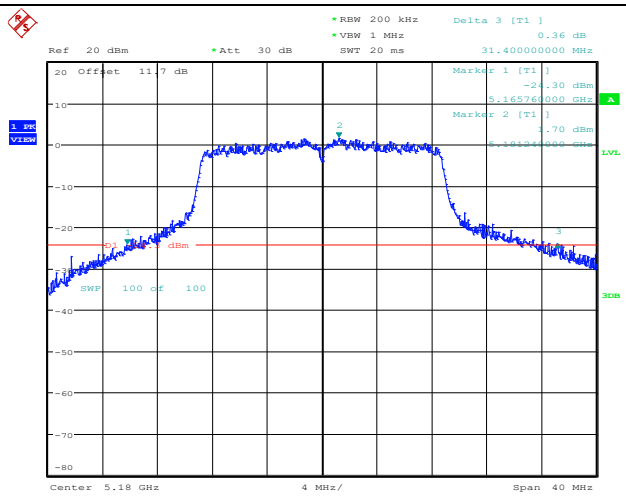

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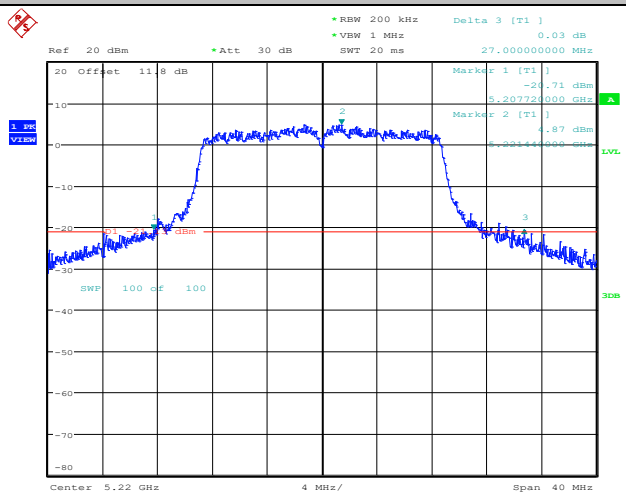

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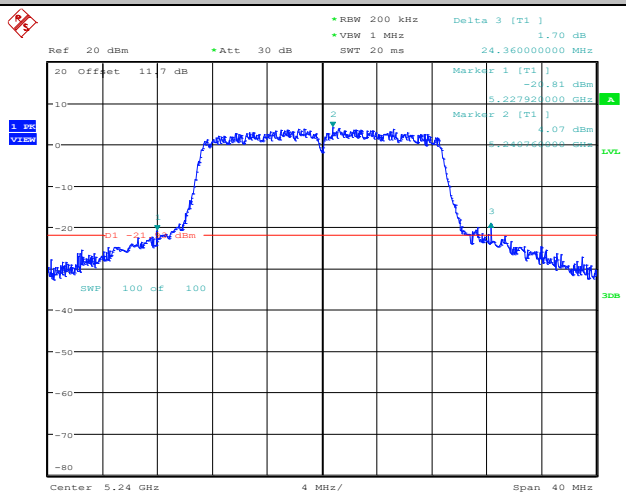

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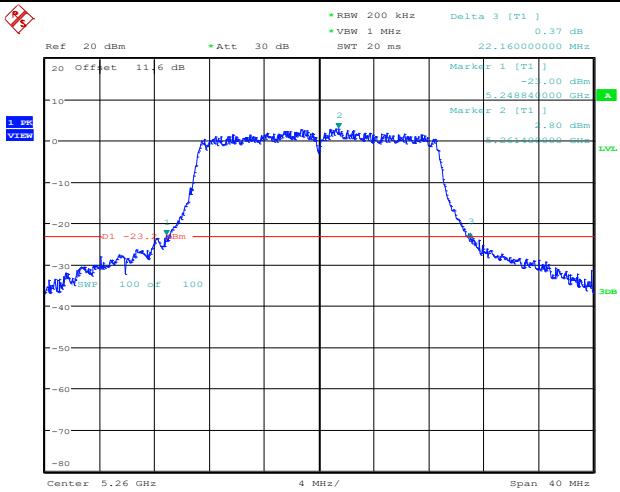

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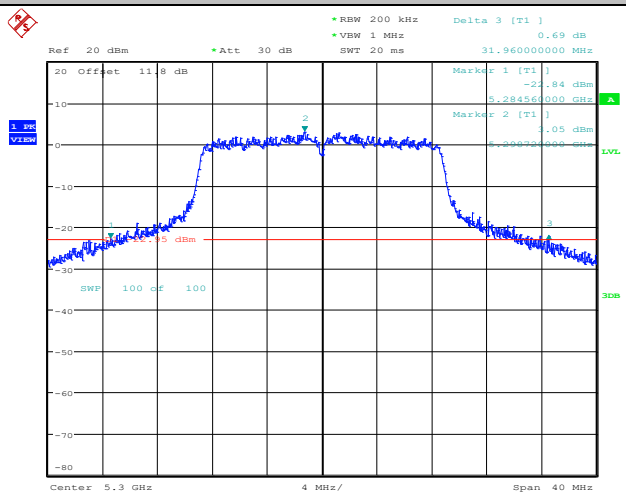

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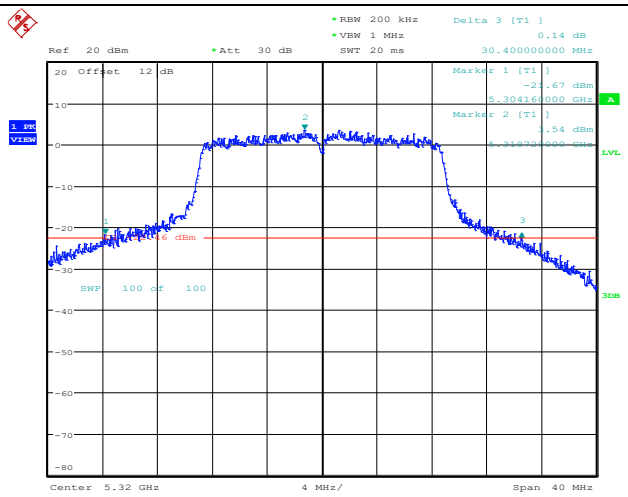

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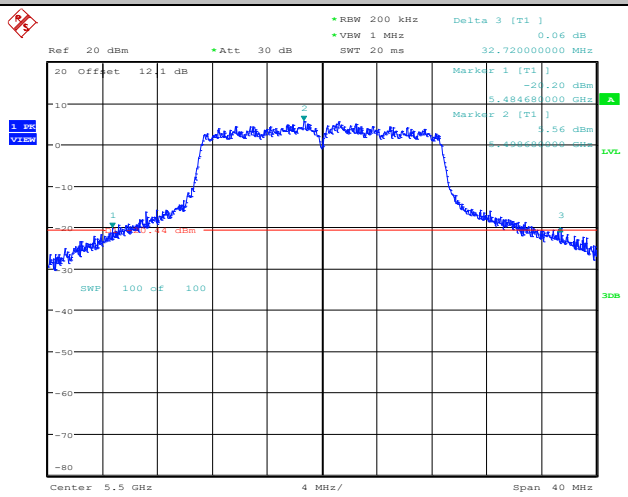

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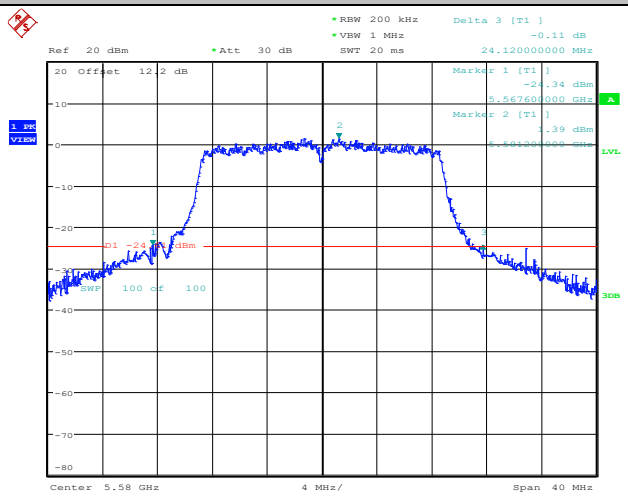

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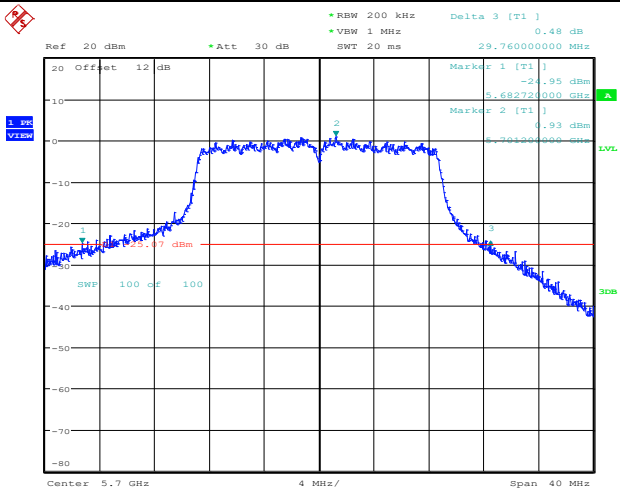

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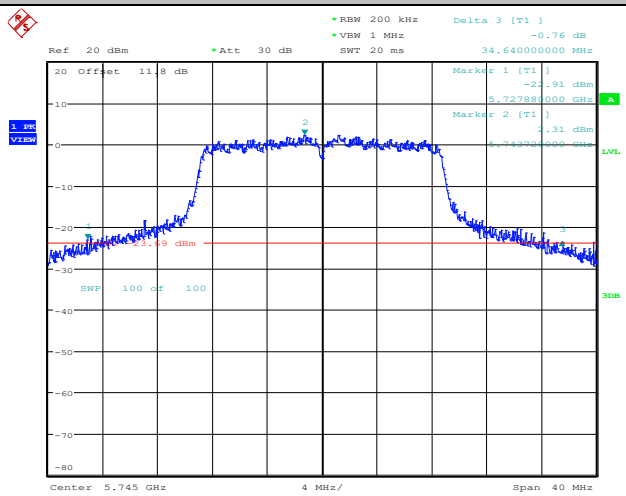

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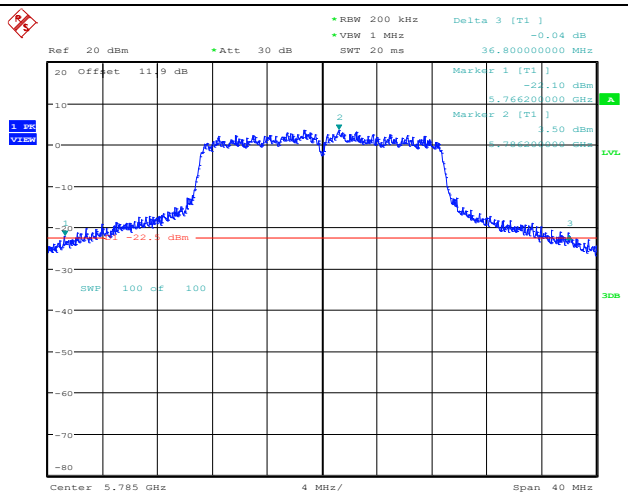

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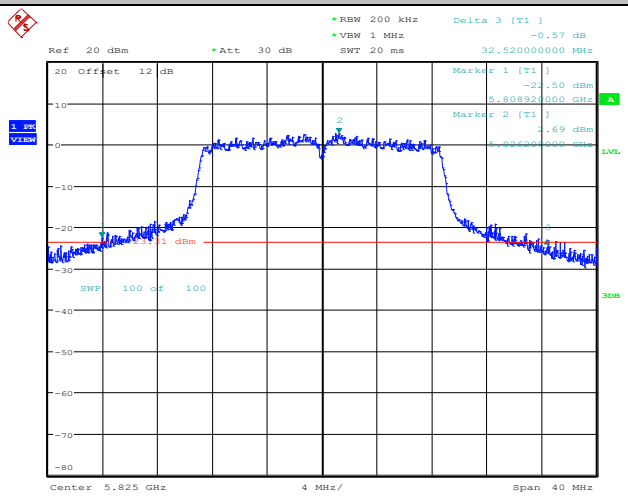

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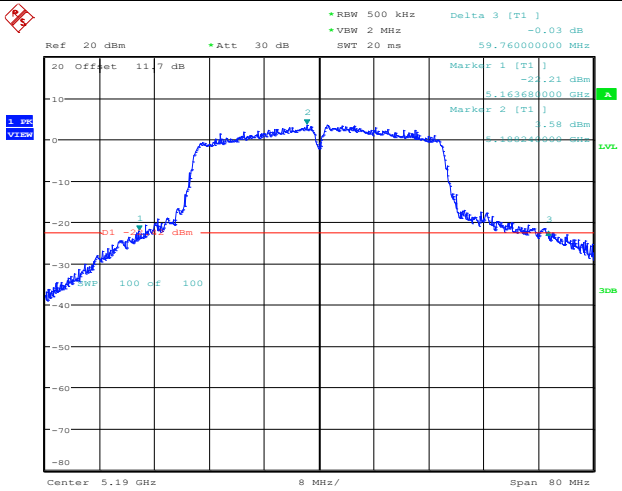

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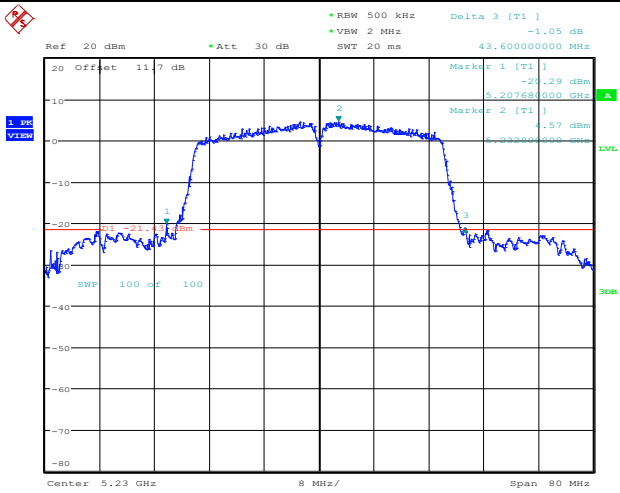

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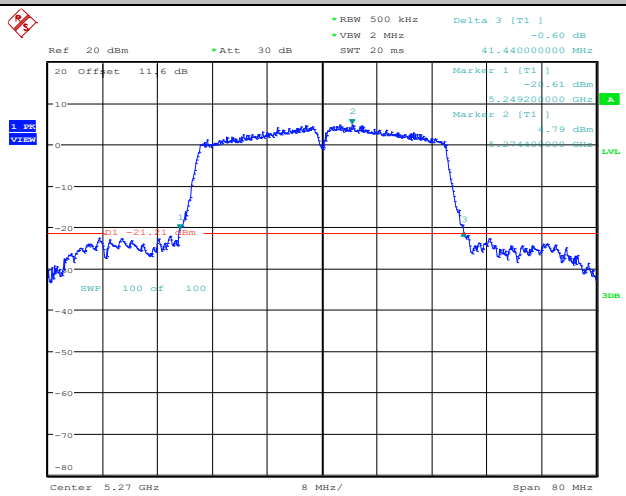

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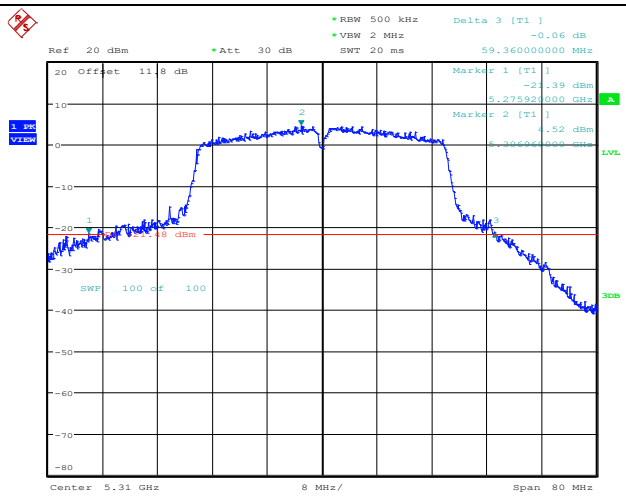

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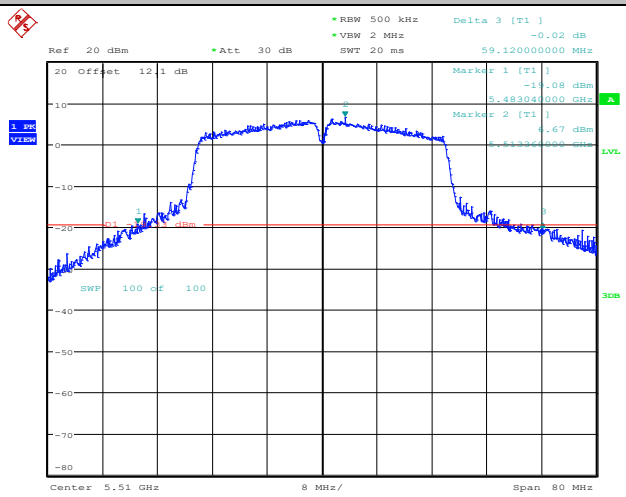

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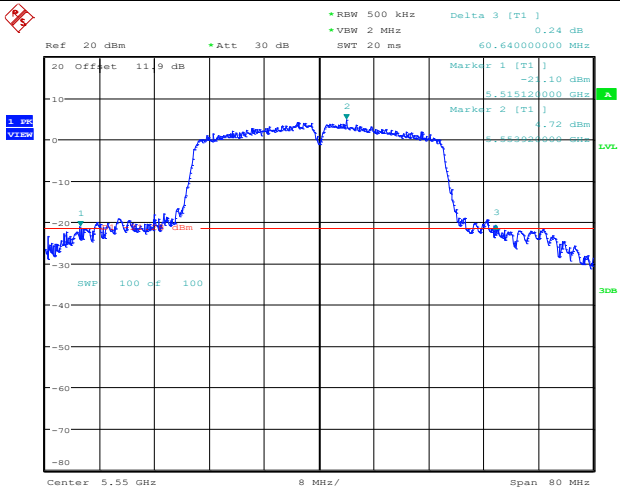

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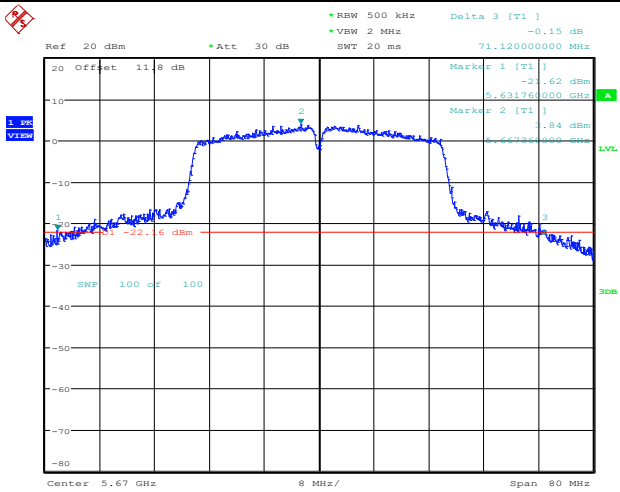

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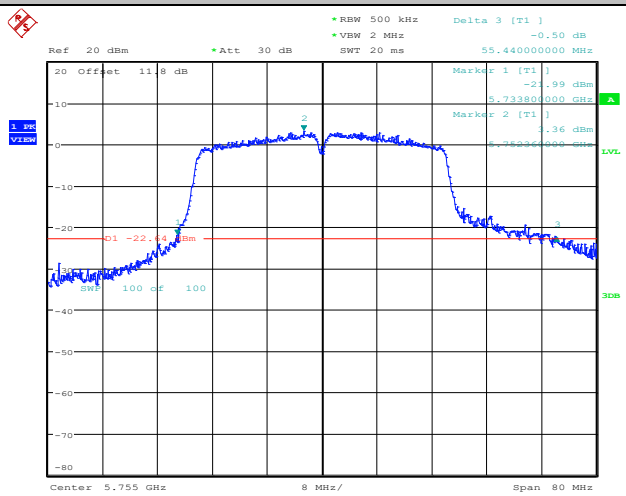

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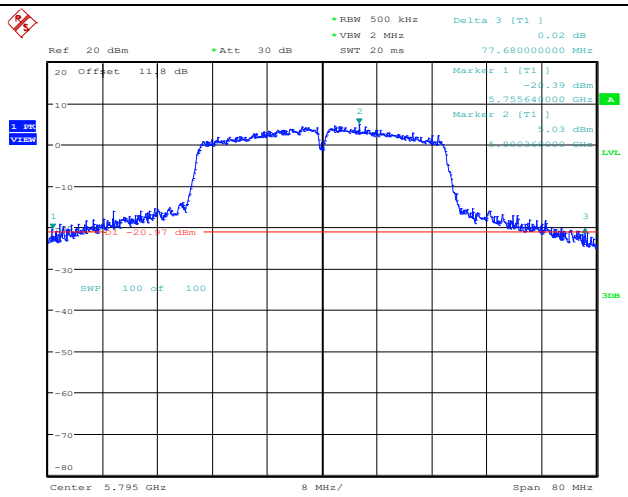

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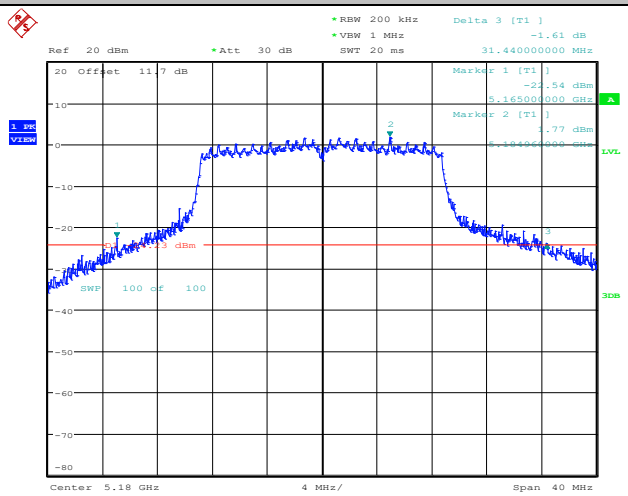

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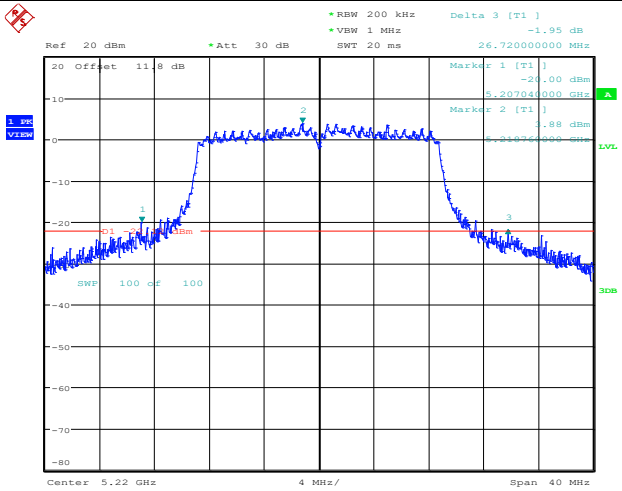

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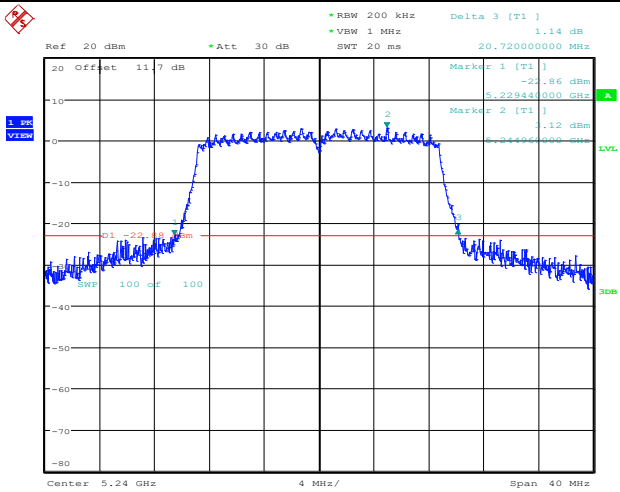

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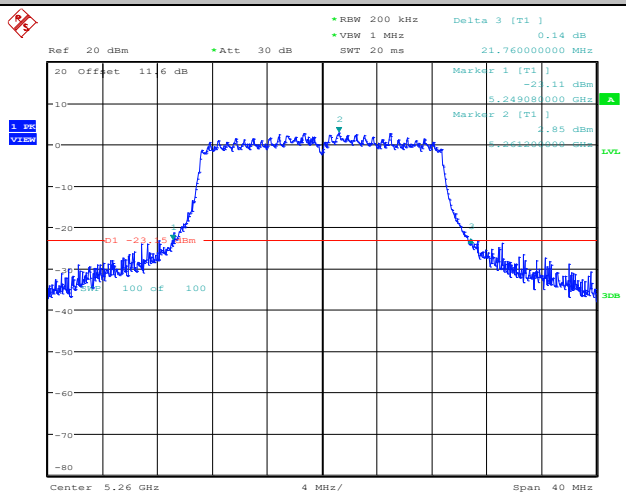

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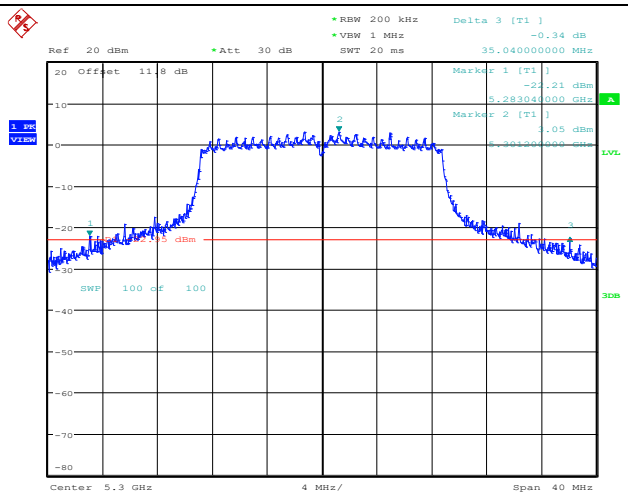

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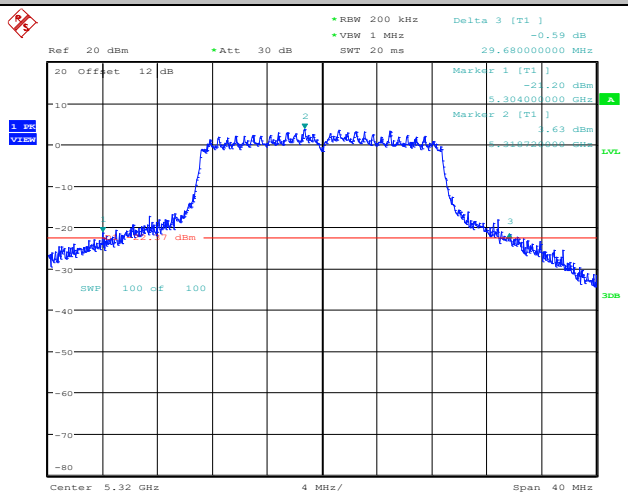

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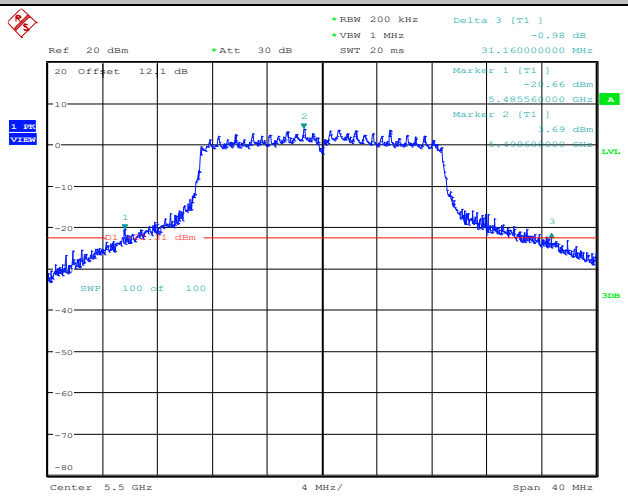

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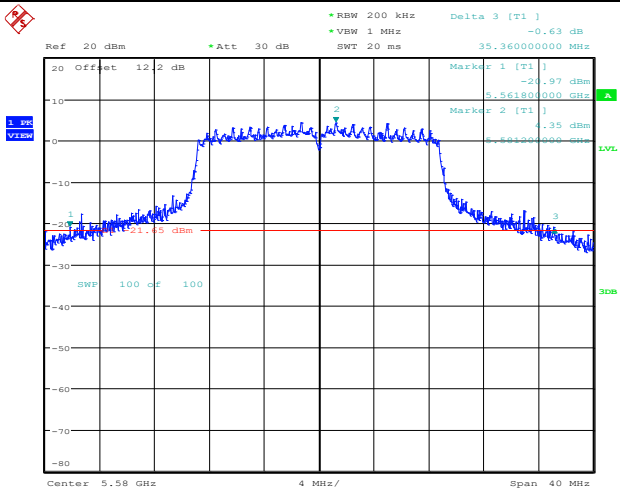

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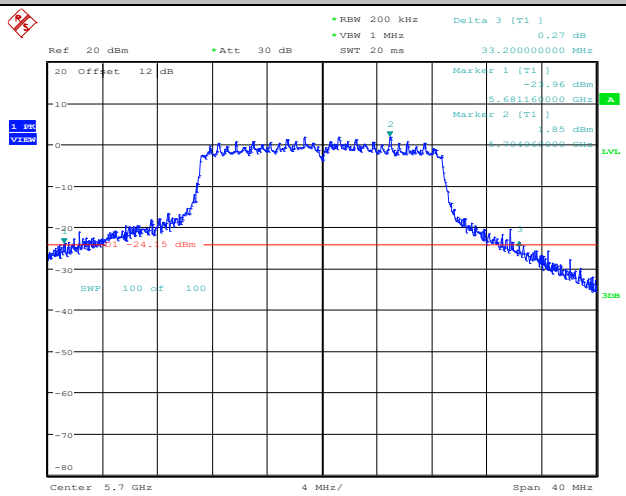

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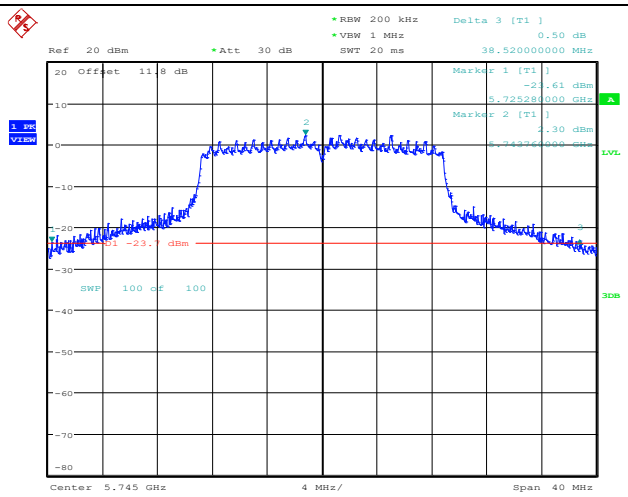

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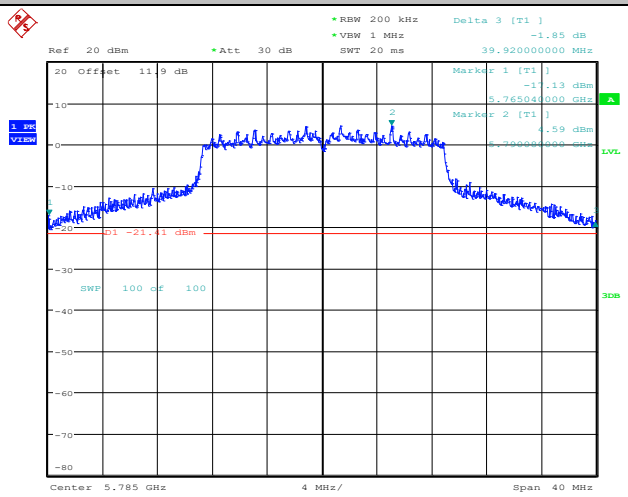

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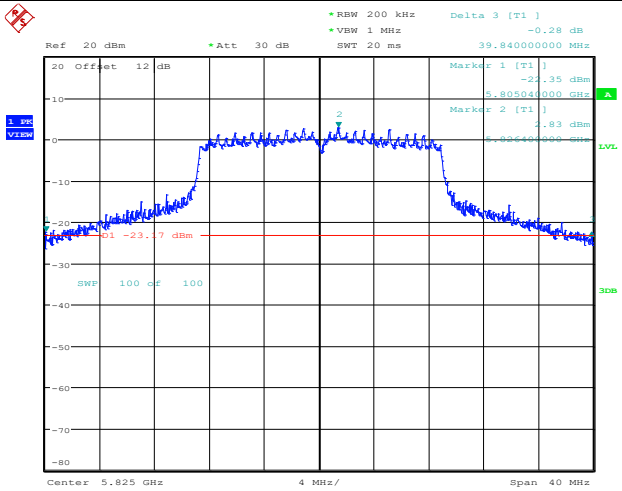

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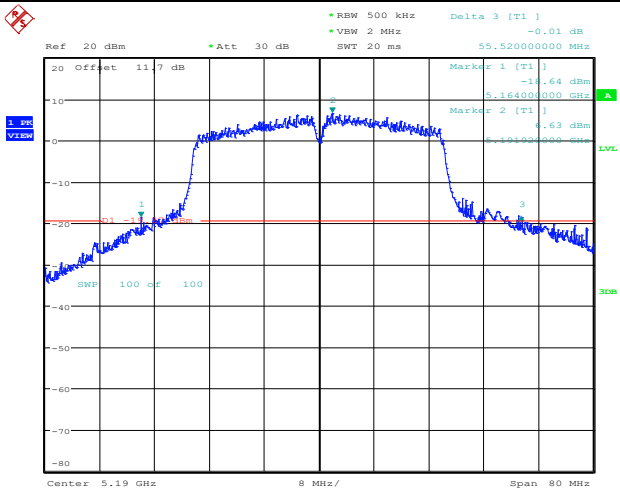

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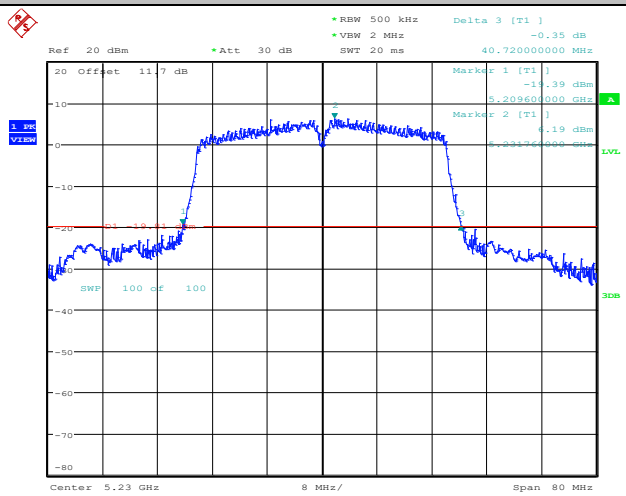

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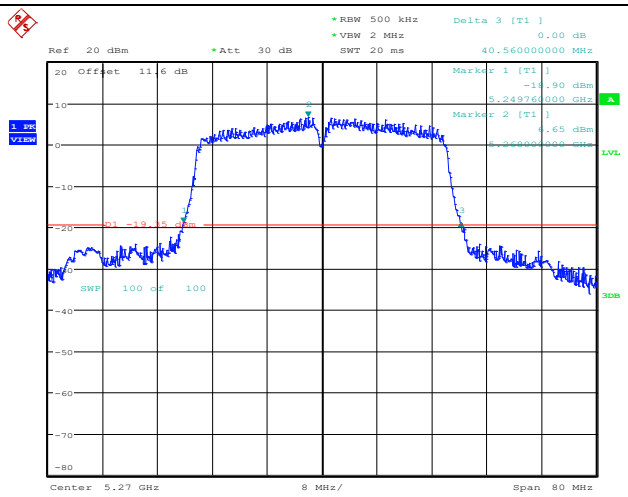

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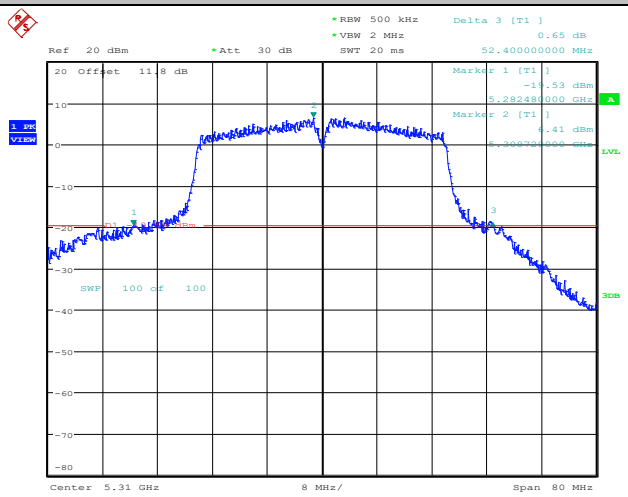

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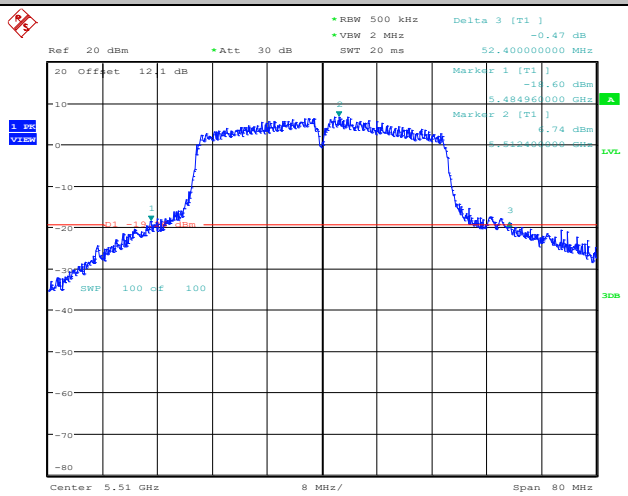

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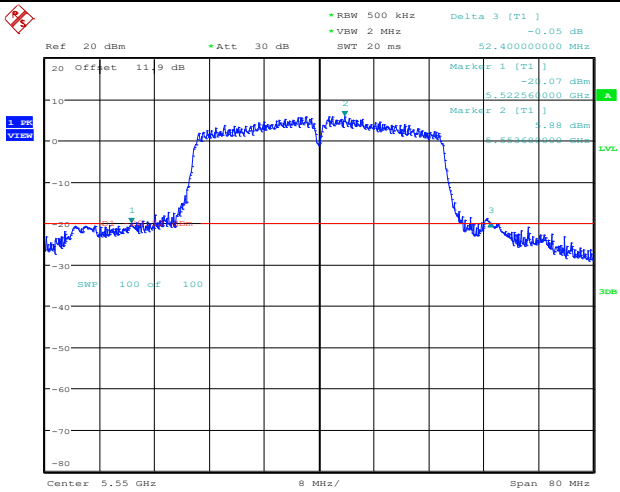

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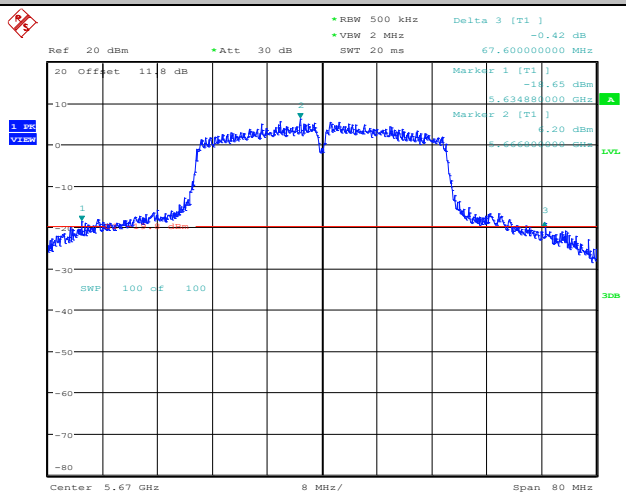

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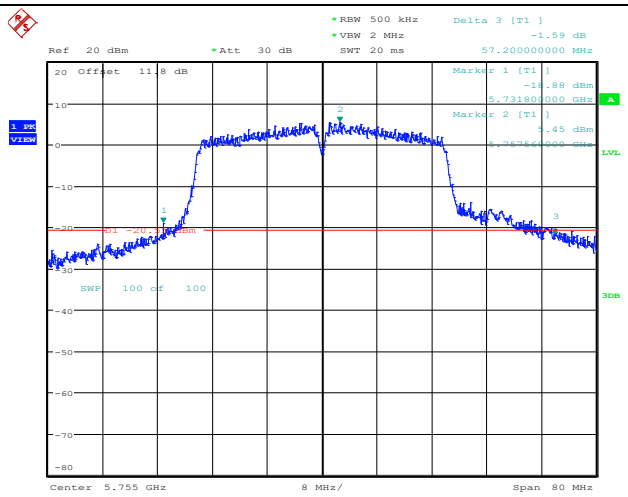

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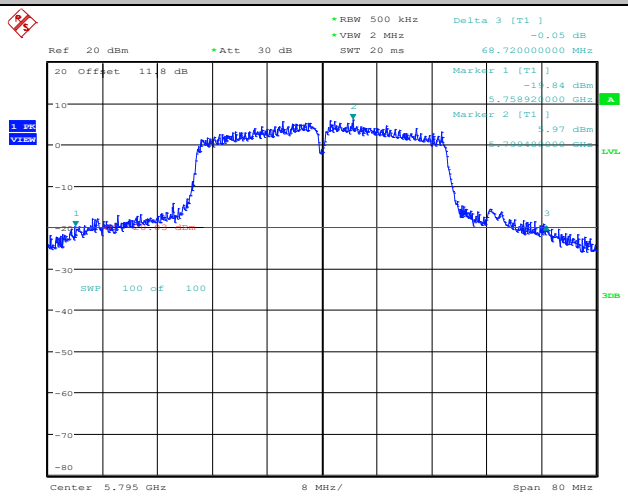

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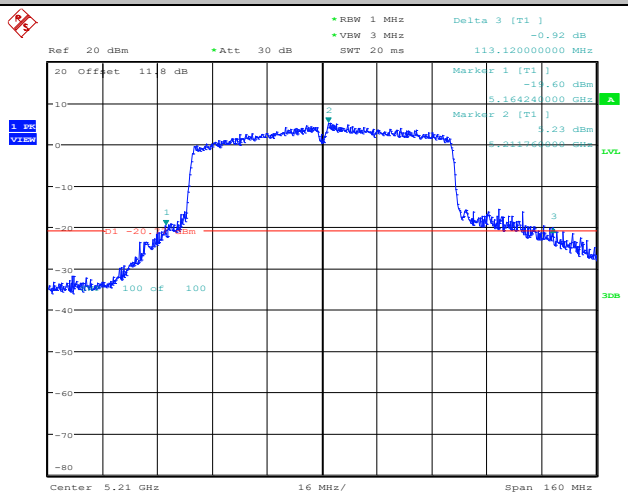

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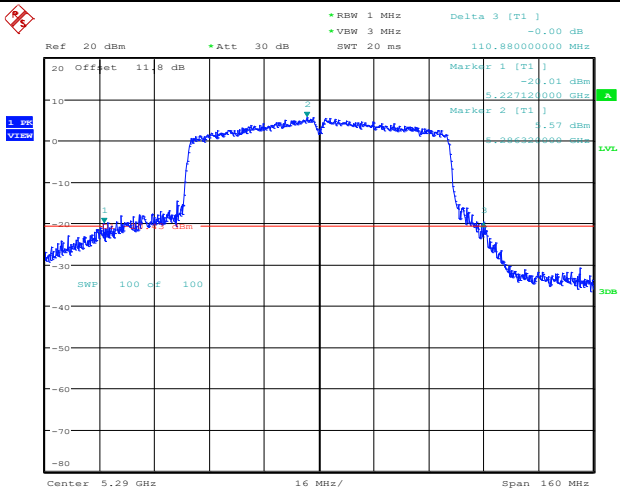

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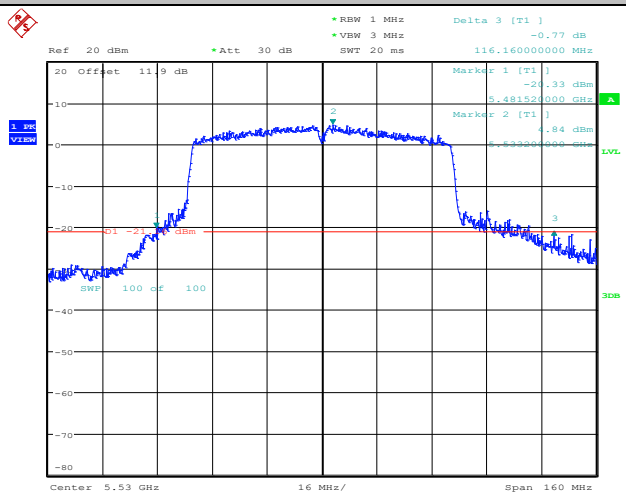

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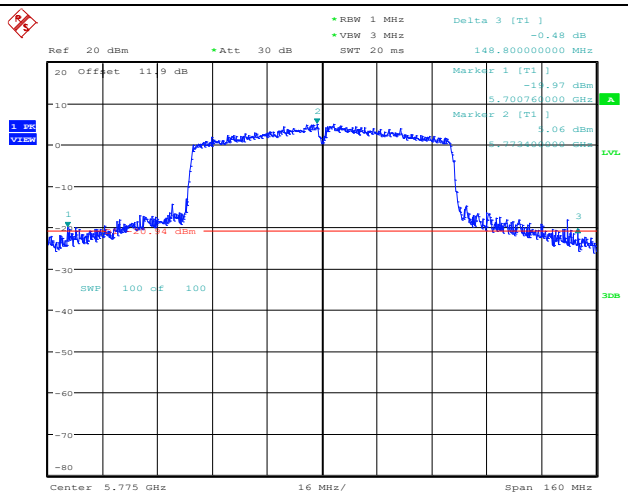

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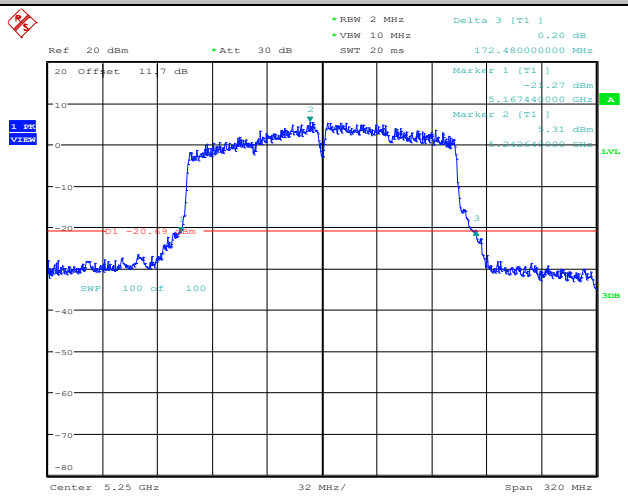

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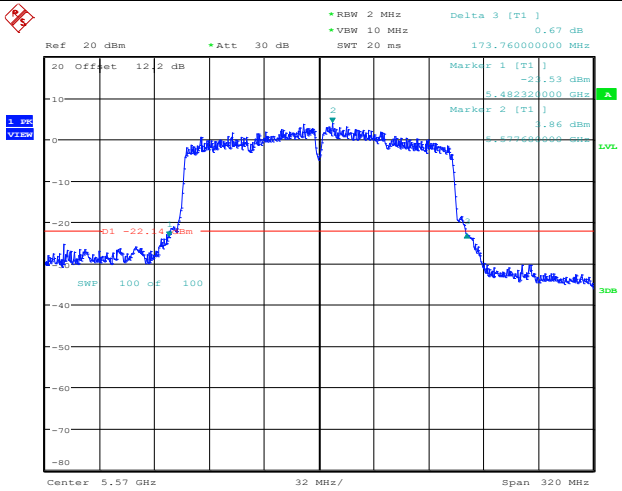

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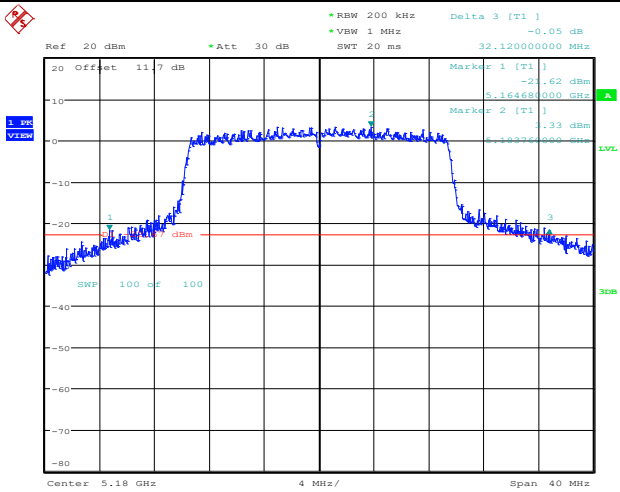

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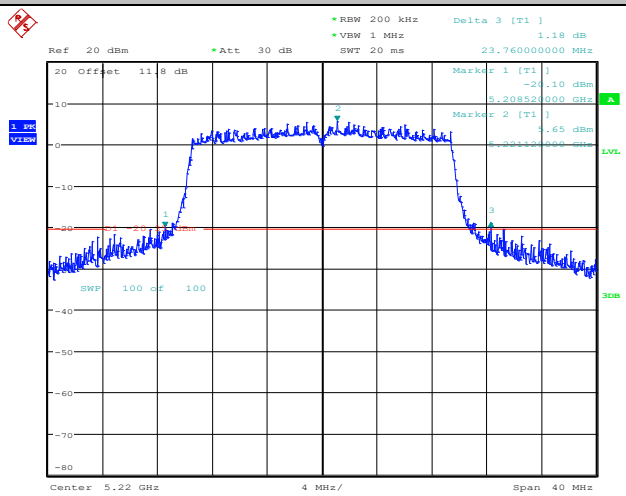

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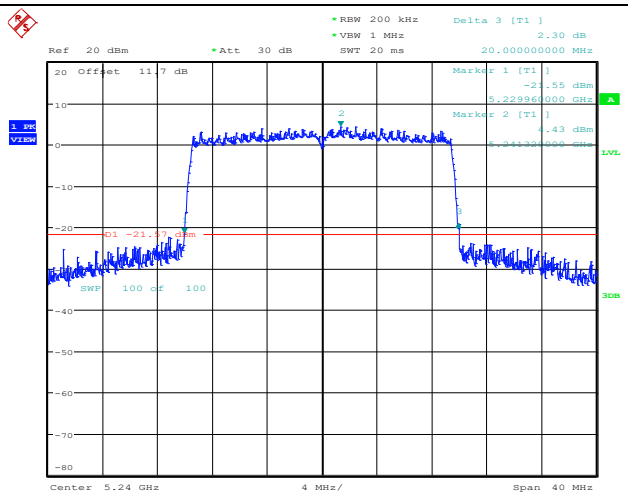

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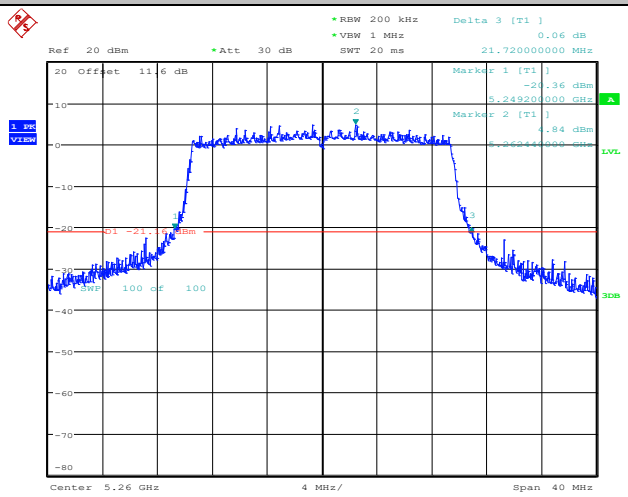

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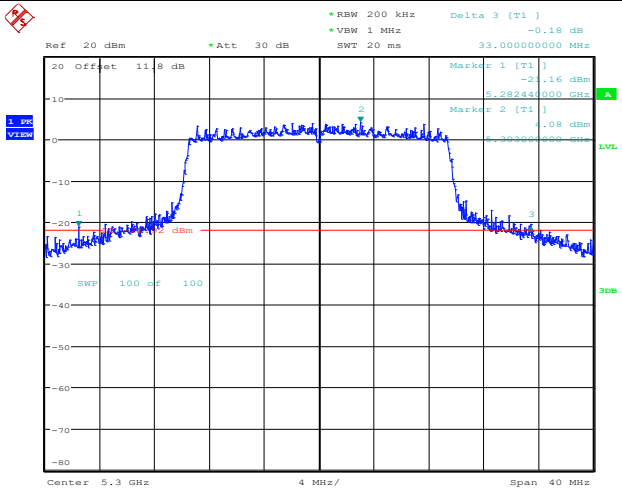

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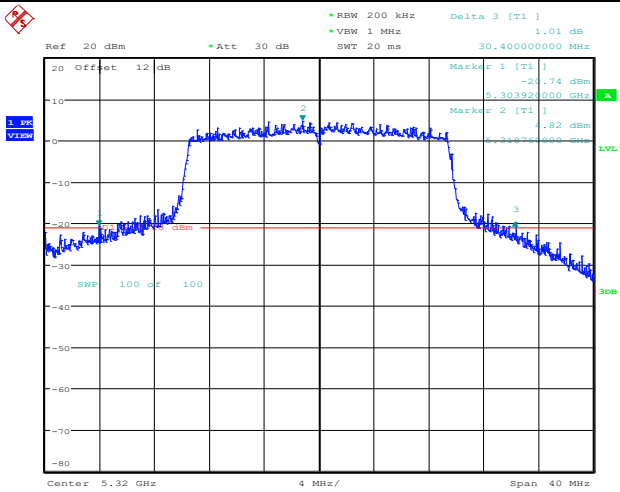

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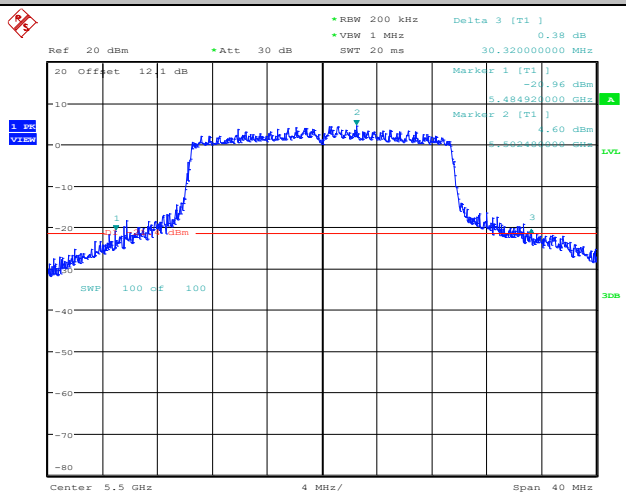

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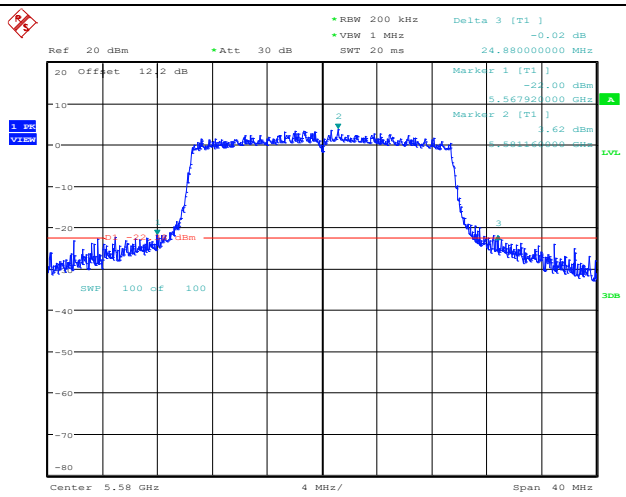

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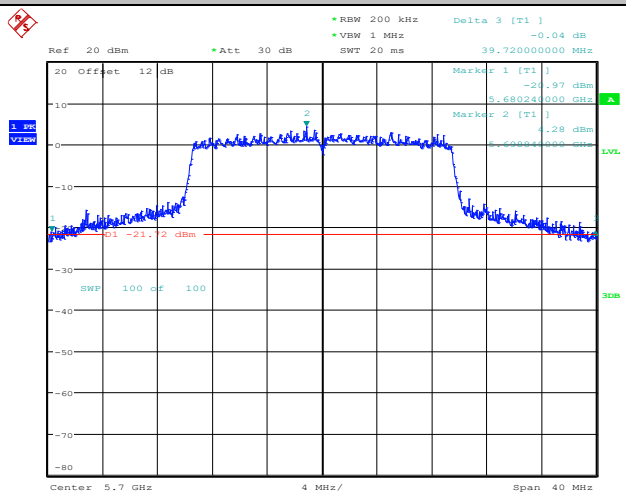

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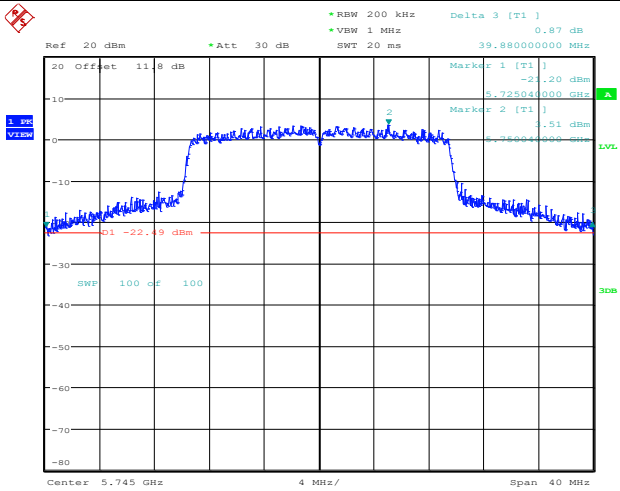

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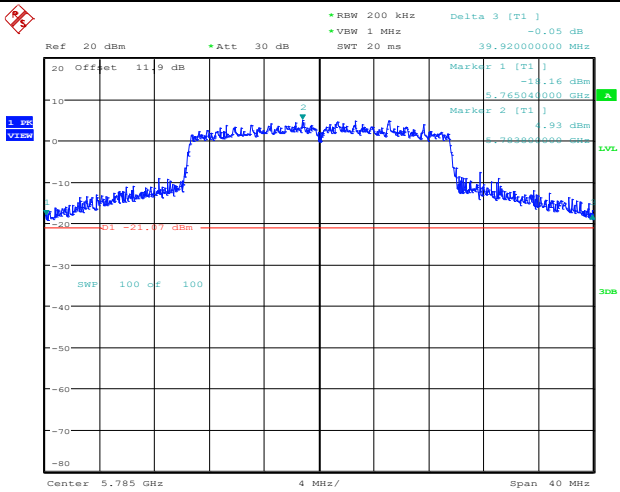

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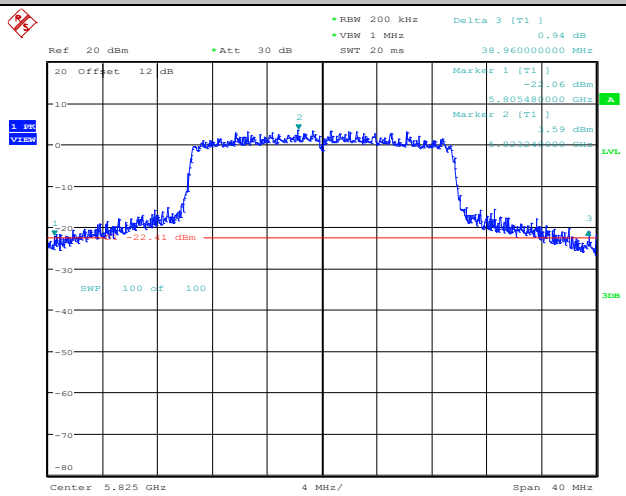

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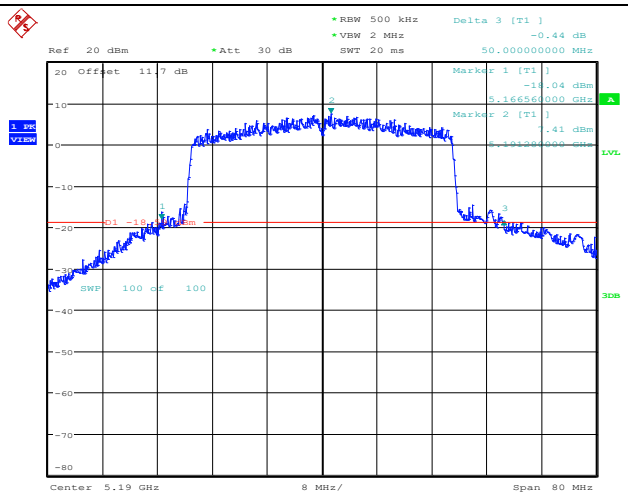

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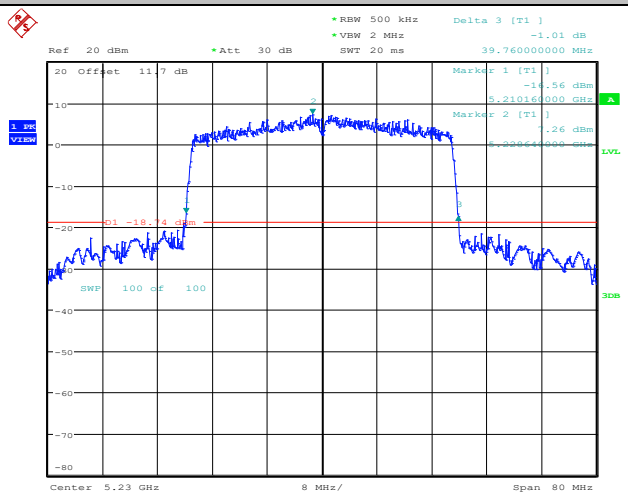

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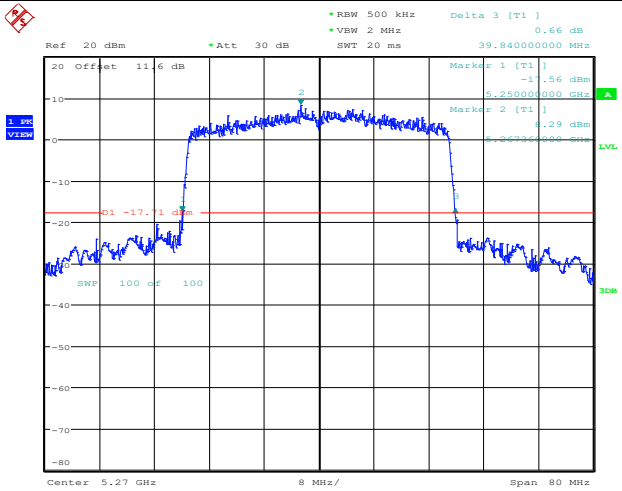

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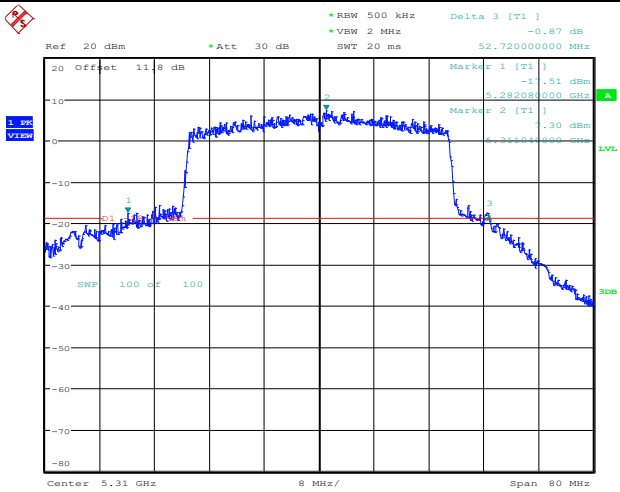

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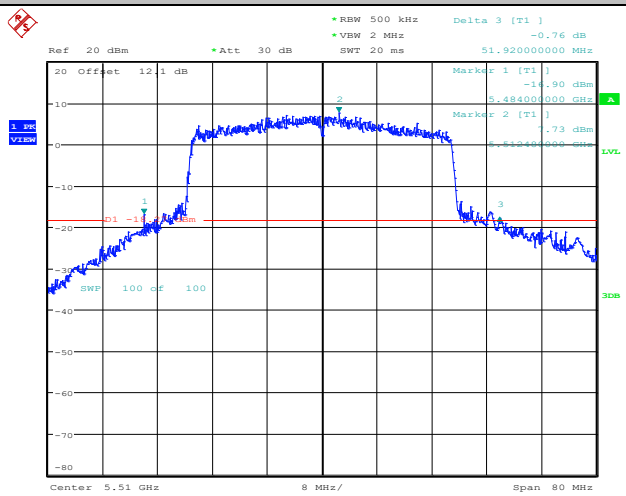

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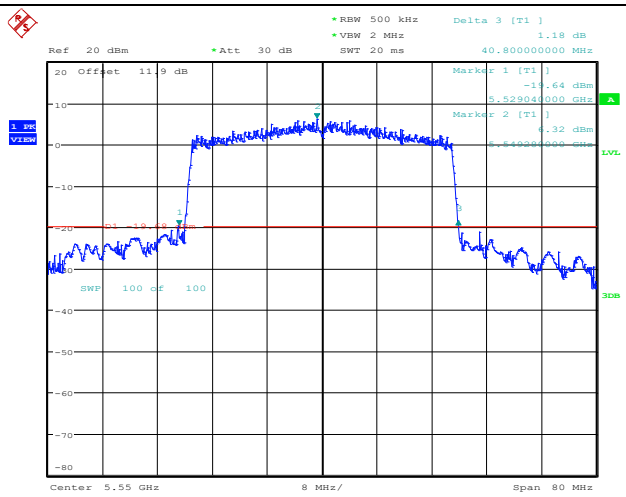

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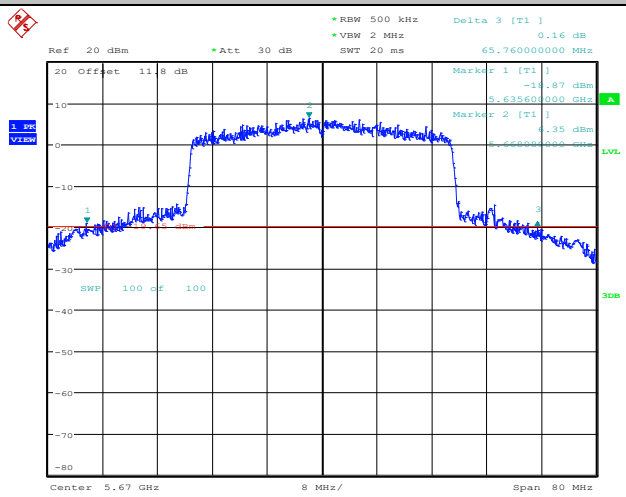

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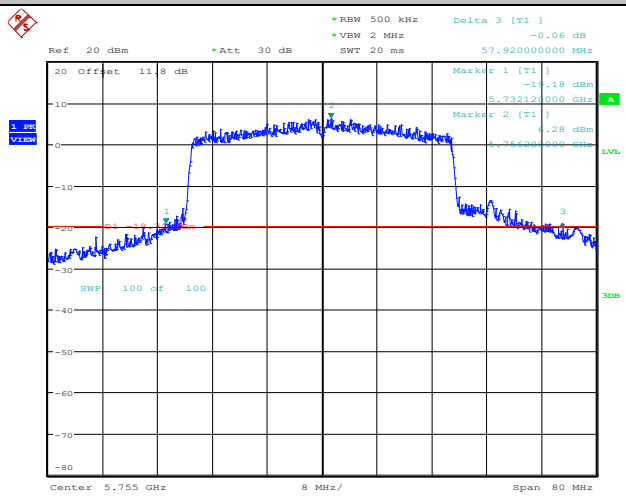

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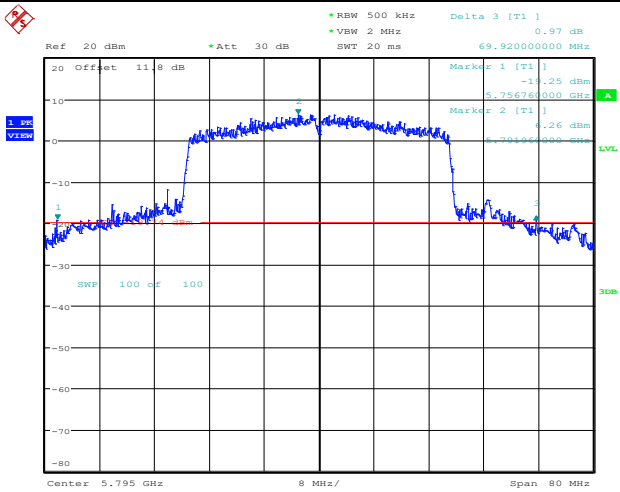

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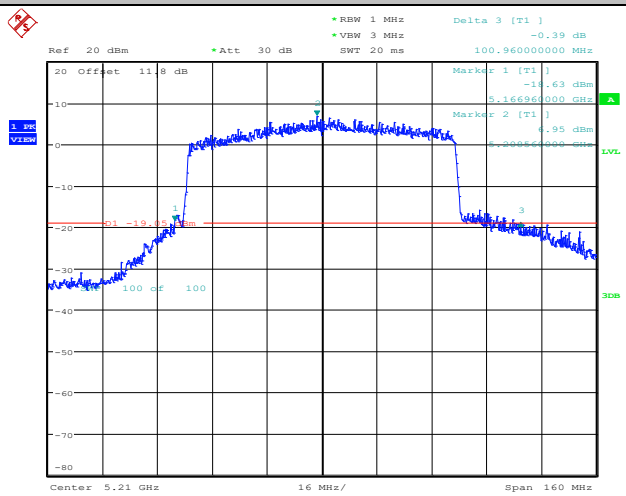
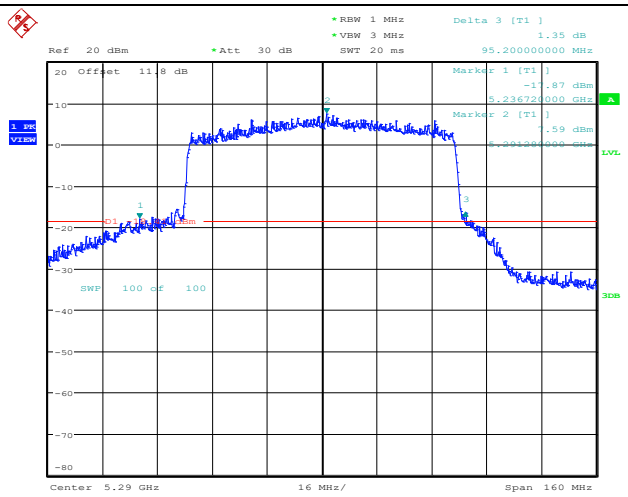


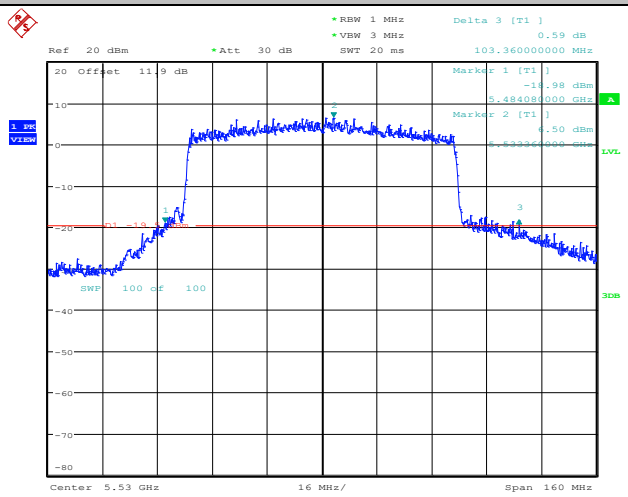
Date: 26.SEP.2024 19:15:05

11AX80SISO_Ant1_5290



Date: 26.SEP.2024 19:17:47

11AX80SISO_Ant1_5530



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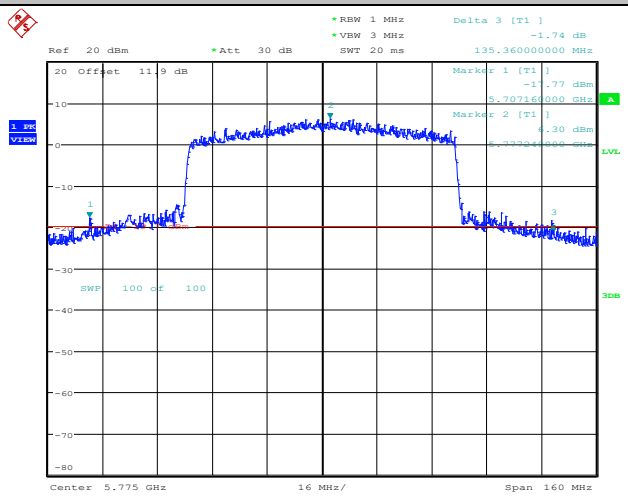

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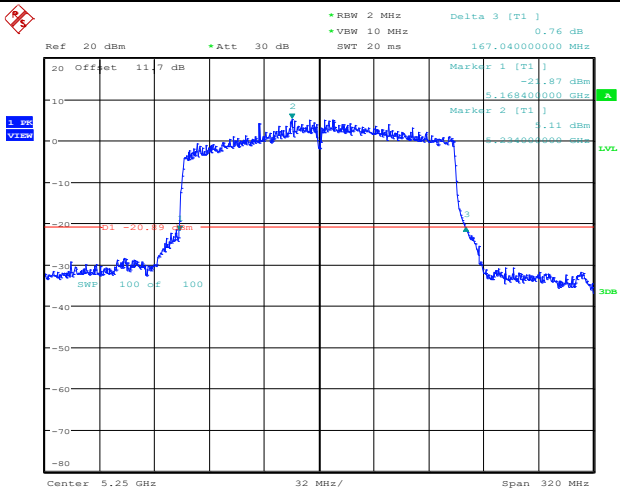

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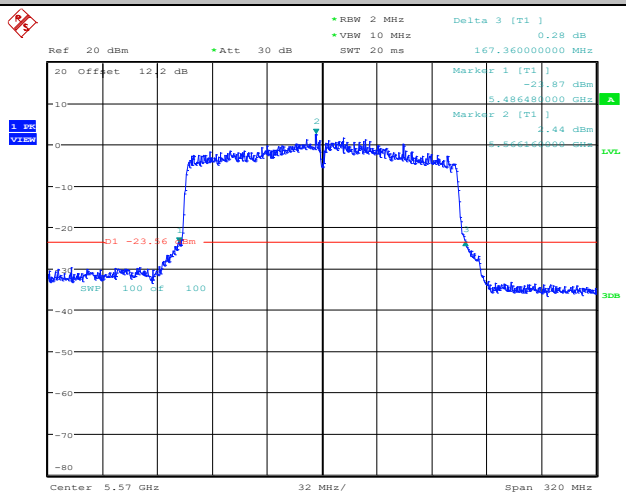

Date: 26.SEP.2024 19:35:00

Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18	5171.0400	5189.0400	---	---
		5220	17.12	5211.4000	5228.5200	---	---
		5240	17.16	5231.3600	5248.5200	---	---
		5260	17.12	5251.4000	5268.5200	---	---
		5300	17.4	5291.2800	5308.6800	---	---
		5320	17.4	5311.2000	5328.6000	---	---
		5500	17.48	5491.2000	5508.6800	---	---
		5580	17.04	5571.4000	5588.4400	---	---
		5700	17.44	5691.0800	5708.5200	---	---
		5745	17.76	5736.2800	5754.0400	---	---
		5785	21.04	5774.3600	5795.4000	---	---
		5825	18.28	5815.6400	5833.9200	---	---
11N20SISO	Ant1	5180	18.6	5170.7600	5189.3600	---	---
		5220	18.32	5210.8000	5229.1200	---	---
		5240	18.2	5230.8400	5249.0400	---	---
		5260	18.2	5250.8800	5269.0800	---	---
		5300	18.64	5290.6000	5309.2400	---	---
		5320	18.48	5310.6400	5329.1200	---	---
		5500	18.64	5490.6800	5509.3200	---	---
		5580	18.24	5570.8000	5589.0400	---	---
		5700	18.68	5690.4000	5709.0800	---	---
		5745	18.64	5735.6400	5754.2800	---	---
		5785	19.4	5775.2000	5794.6000	---	---
		5825	18.6	5815.5600	5834.1600	---	---
11N40SISO	Ant1	5190	36.8	5171.6800	5208.4800	---	---
		5230	36.48	5211.7600	5248.2400	---	---
		5270	36.4	5251.8400	5288.2400	---	---
		5310	36.8	5291.5200	5328.3200	---	---
		5510	36.8	5491.5200	5528.3200	---	---
		5550	36.72	5531.5200	5568.2400	---	---
		5670	37.28	5651.2000	5688.4800	---	---
		5755	36.8	5736.6800	5773.4800	---	---
		5795	37.36	5776.2000	5813.5600	---	---
11AC20SISO	Ant1	5180	18.4	5170.8000	5189.2000	---	---
		5220	18.08	5210.9200	5229.0000	---	---
		5240	18.04	5230.9600	5249.0000	---	---
		5260	18.04	5250.9200	5268.9600	---	---

		5300	18.36	5290.7600	5309.1200	---	---
		5320	18.28	5310.7600	5329.0400	---	---
		5500	18.36	5490.8000	5509.1600	---	---
		5580	18.08	5570.8800	5588.9600	---	---
		5700	18.76	5690.3200	5709.0800	---	---
		5745	20.48	5734.7600	5755.2400	---	---
		5785	28.68	5770.8400	5799.5200	---	---
		5825	20.56	5814.6400	5835.2000	---	---
11AC40SISO	Ant1	5190	36.72	5171.6800	5208.4000	---	---
		5230	36.32	5211.8400	5248.1600	---	---
		5270	36.32	5251.8400	5288.1600	---	---
		5310	36.64	5291.6000	5328.2400	---	---
		5510	36.72	5491.6000	5528.3200	---	---
		5550	36.64	5531.5200	5568.1600	---	---
		5670	37.52	5651.0400	5688.5600	---	---
		5755	37.12	5736.6000	5773.7200	---	---
		5795	37.2	5776.2800	5813.4800	---	---
11AC80SISO	Ant1	5210	76.16	5172.0800	5248.2400	---	---
		5290	75.84	5252.0800	5327.9200	---	---
		5530	76.32	5491.7600	5568.0800	---	---
		5775	77.12	5736.4400	5813.5600	---	---
11AC160SISO	Ant1	5250	154.88	5173.5200	5328.4000	---	---
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		5250_UNII-2A	78.4	5250	5328.4000	---	---
		5570	155.52	5491.9200	5647.4400	---	---
11AX20SISO	Ant1	5180	19.32	5170.3200	5189.6400	---	---
		5220	19.16	5210.3600	5229.5200	---	---
		5240	19.04	5230.4400	5249.4800	---	---
		5260	19.12	5250.4000	5269.5200	---	---
		5300	19.36	5290.2800	5309.6400	---	---
		5320	19.28	5310.3200	5329.6000	---	---
		5500	19.28	5490.3600	5509.6400	---	---
		5580	19.24	5570.3200	5589.5600	---	---
		5700	21.44	5689.2800	5710.7200	---	---
		5745	24.4	5732.8800	5757.2800	---	---
		5785	28.2	5770.9200	5799.1200	---	---
		5825	19.84	5815.0800	5834.9200	---	---
11AX40SISO	Ant1	5190	38.16	5170.9600	5209.1200	---	---
		5230	37.92	5211.0400	5248.9600	---	---
		5270	37.92	5251.0400	5288.9600	---	---
		5310	38.16	5290.8800	5329.0400	---	---

		5510	38.16	5490.8800	5529.0400	---	---
		5550	37.92	5530.9600	5568.8800	---	---
		5670	38.56	5650.5600	5689.1200	---	---
		5755	38.64	5735.9600	5774.6000	---	---
		5795	38.64	5775.6400	5814.2800	---	---
11AX80SISO	Ant1	5210	77.76	5171.4400	5249.2000	---	---
		5290	77.44	5251.2800	5328.7200	---	---
		5530	77.76	5490.9600	5568.7200	---	---
		5775	77.92	5735.9600	5813.8800	---	---
11AX160SISO	Ant1	5250	156.48	5172.5600	5329.0400	---	---
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		5250_UNII-2A	79.04	5250	5329.0400	---	---
		5570	157.44	5490.9600	5648.4000	---	---

Test Graphs

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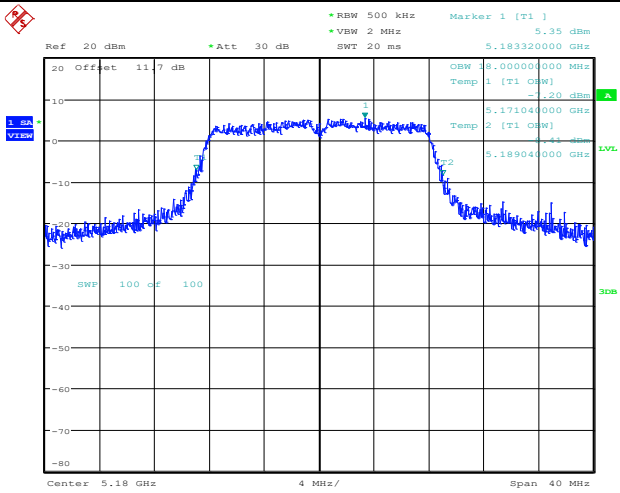
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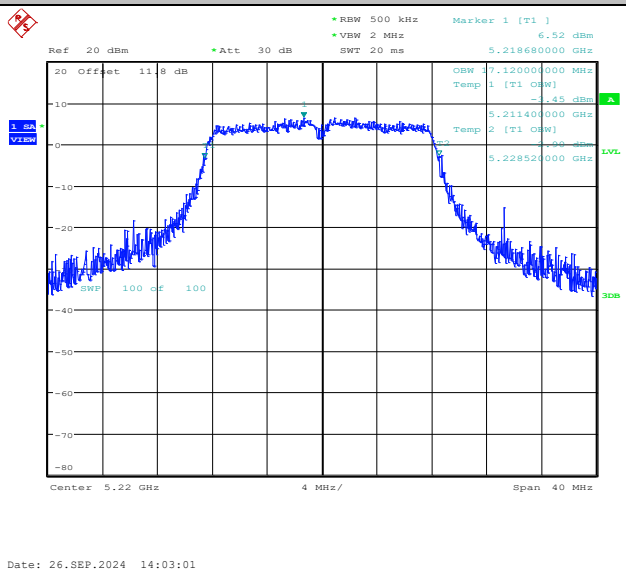
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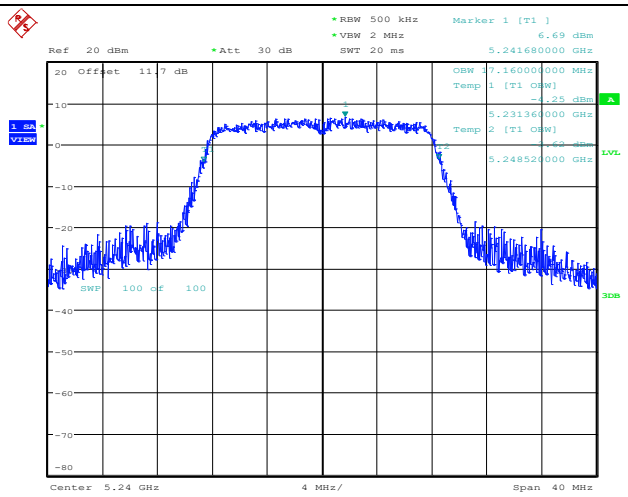

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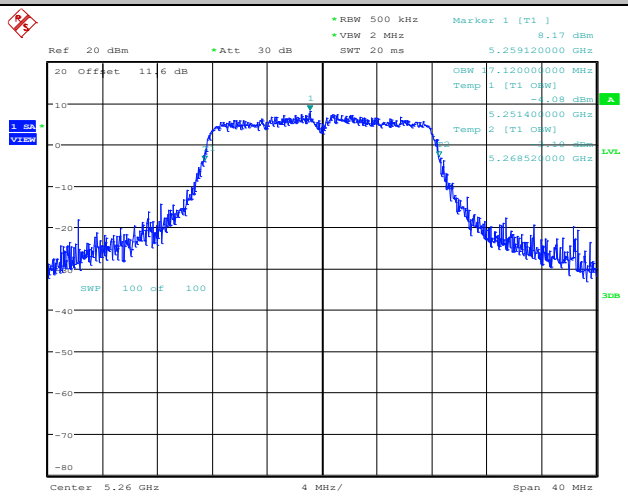

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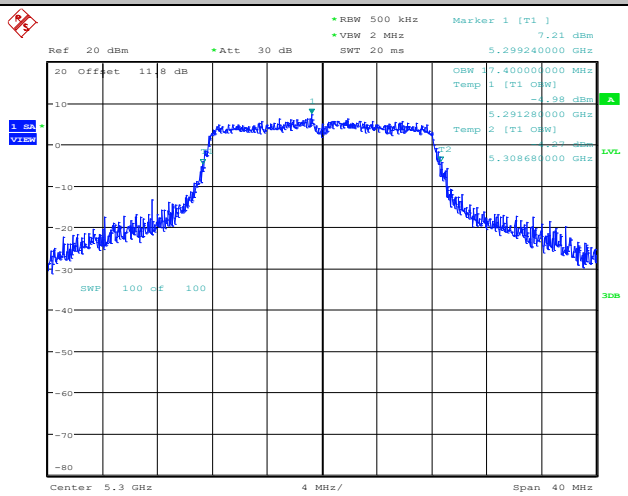

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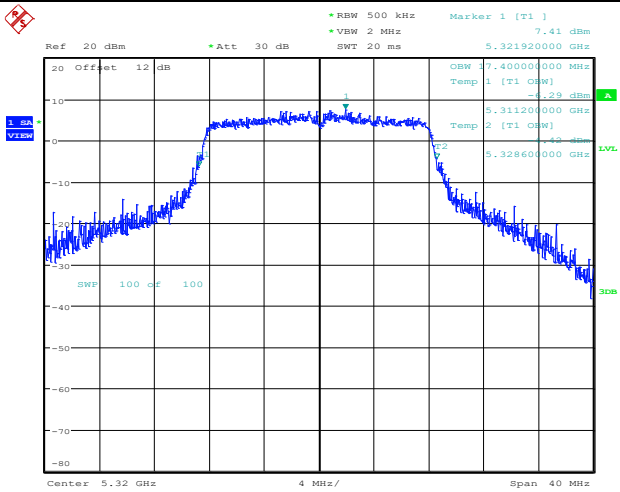

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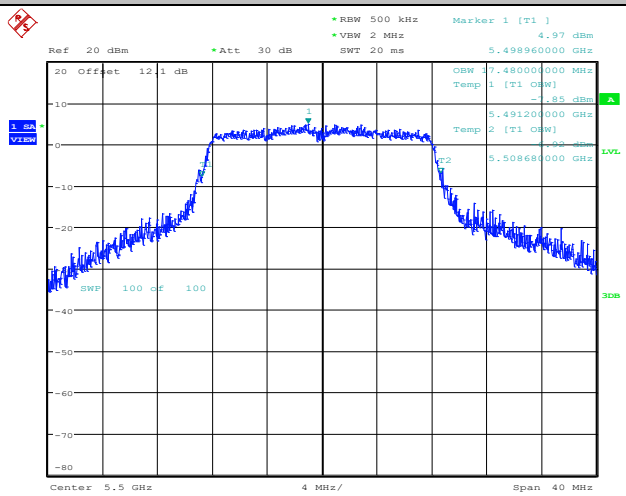

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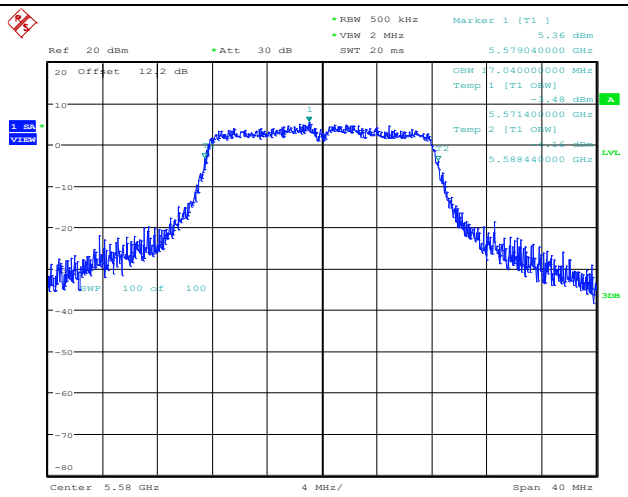

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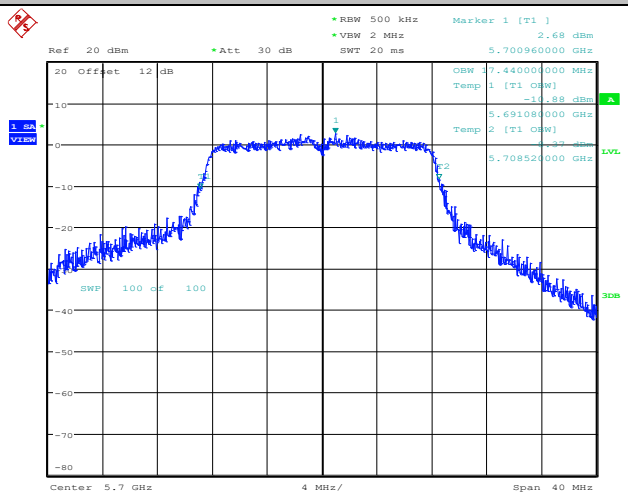

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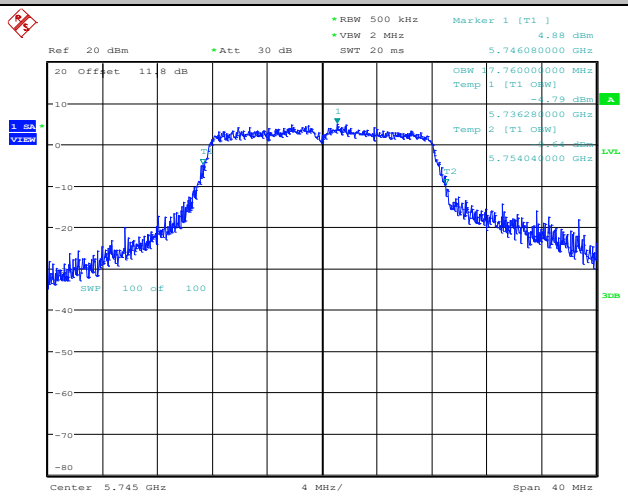

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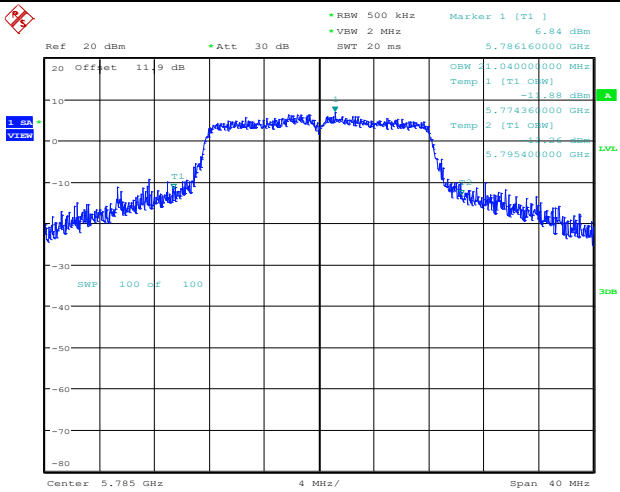

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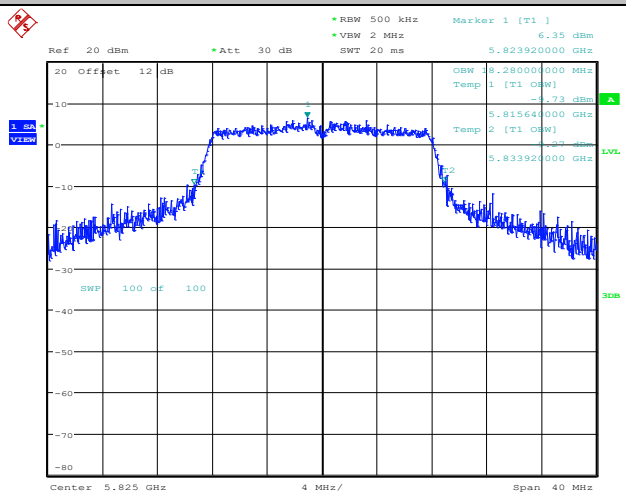

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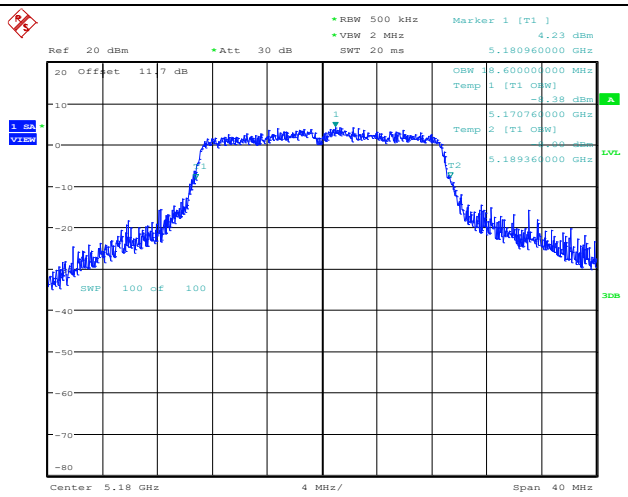

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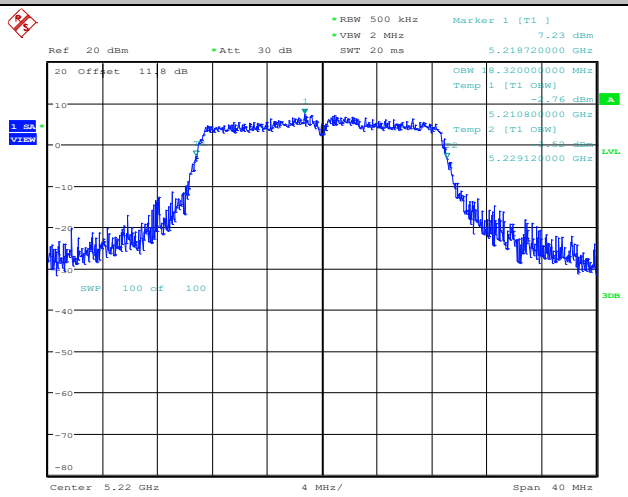

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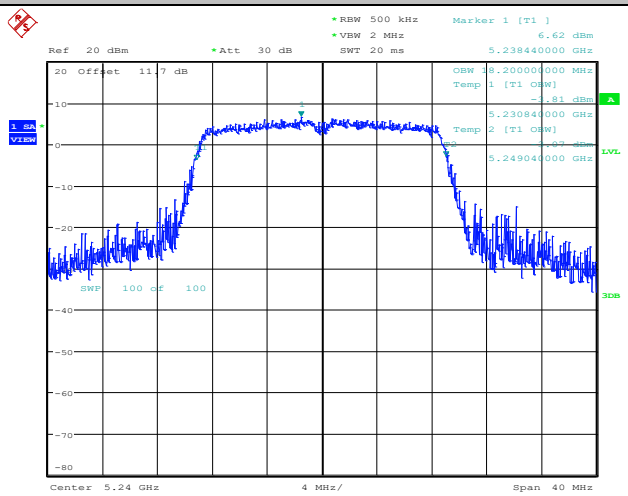

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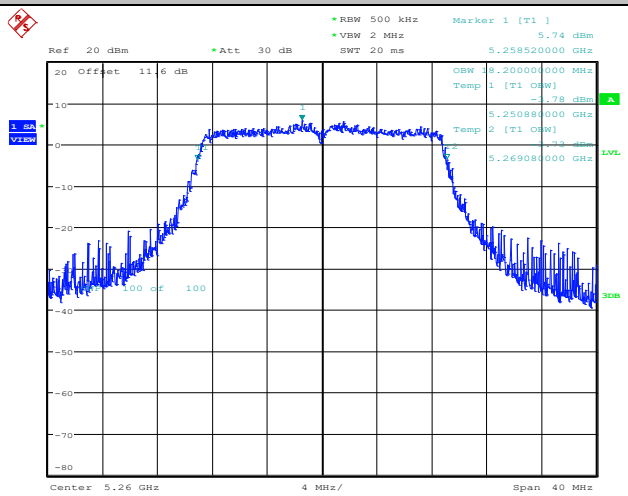

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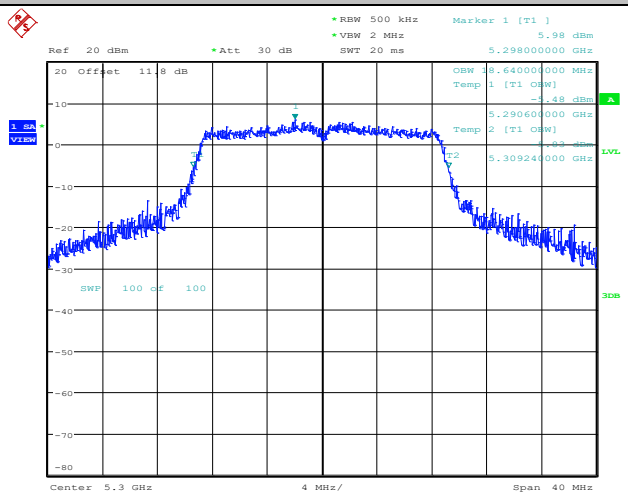

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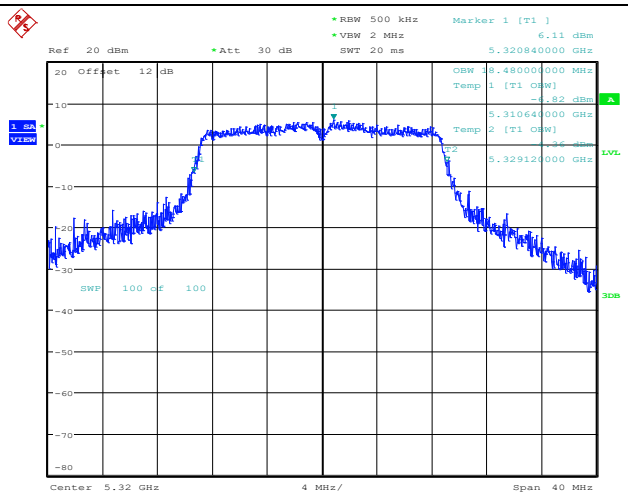

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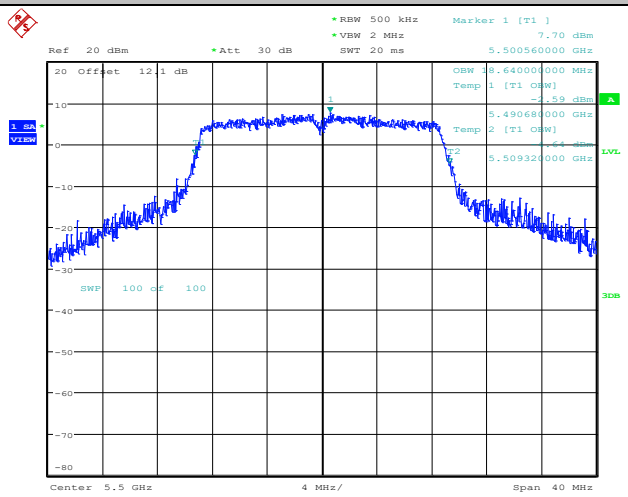

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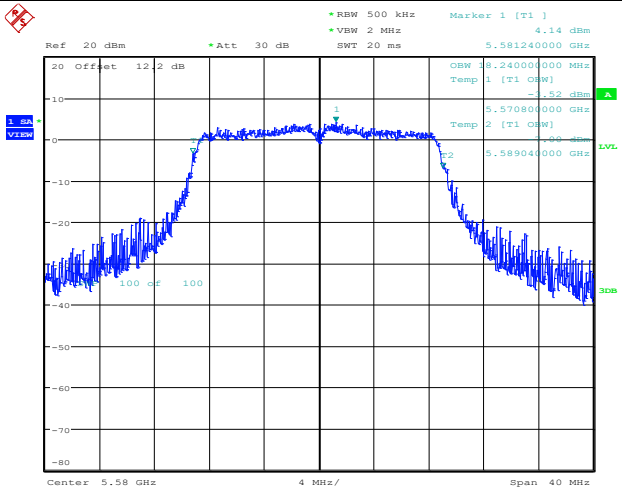

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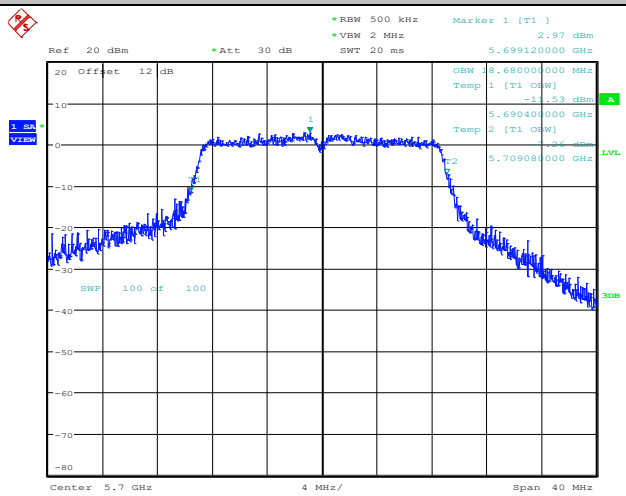

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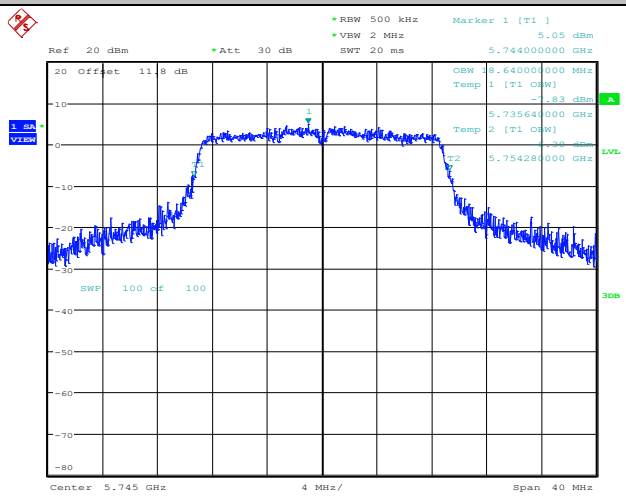

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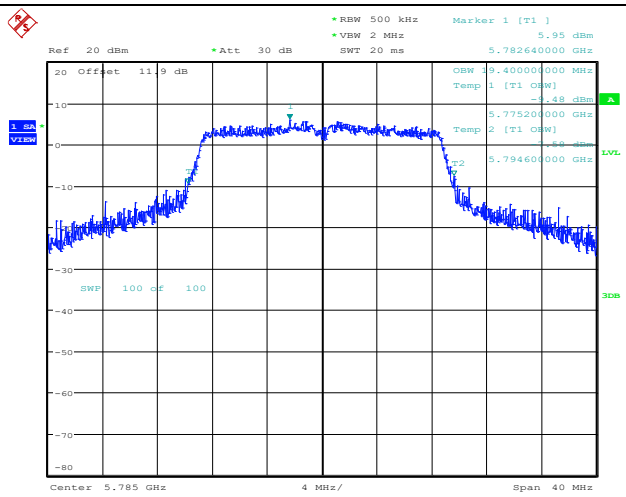

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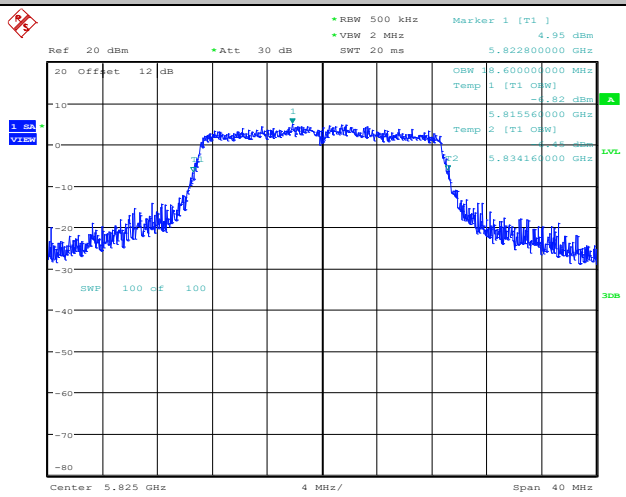

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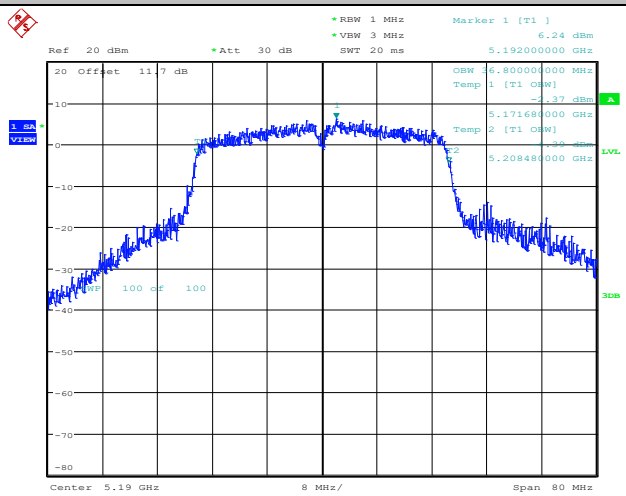

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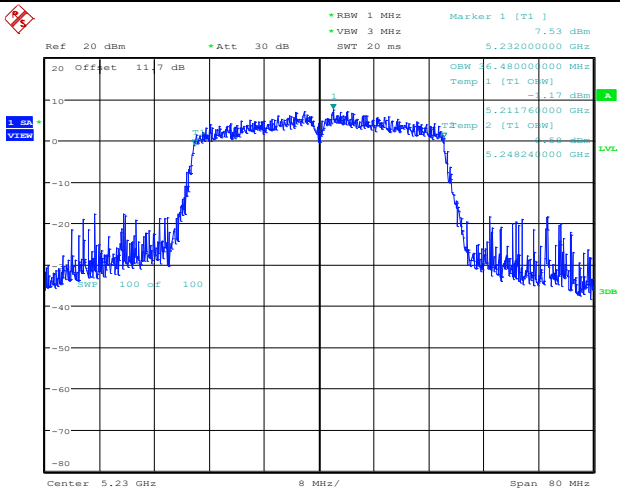

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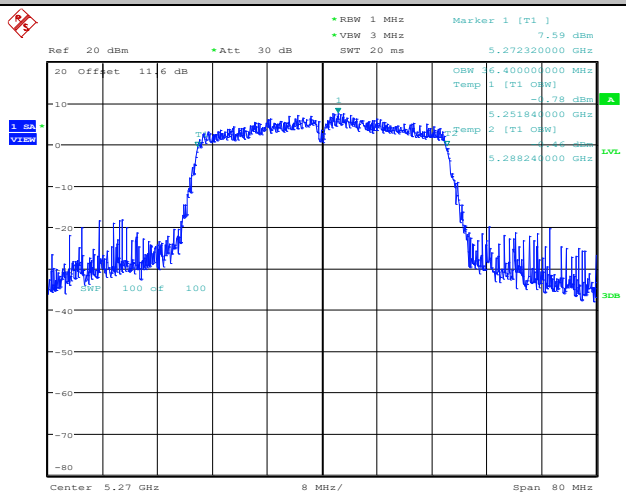

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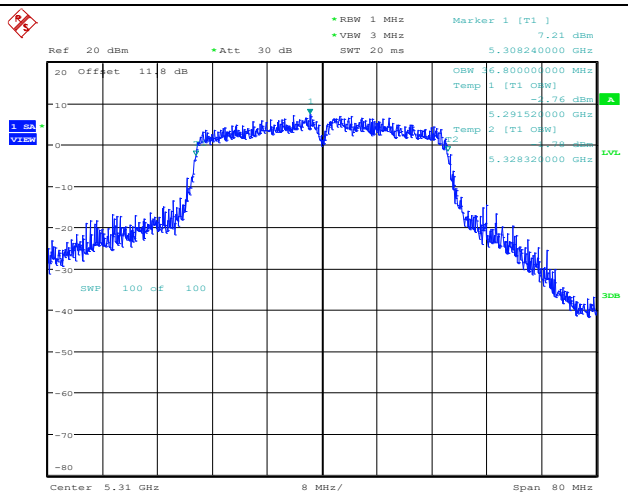

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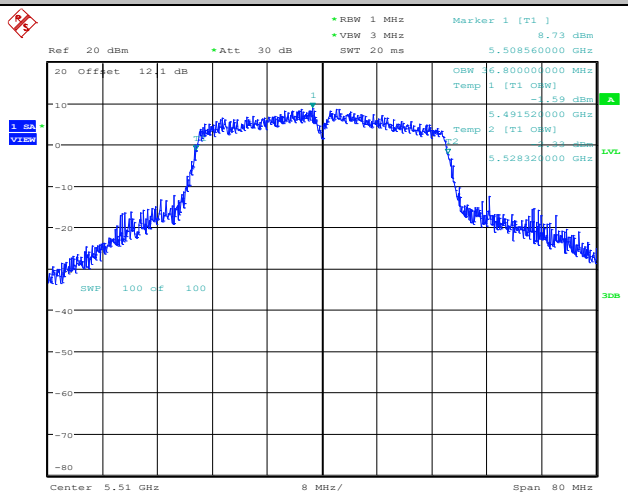

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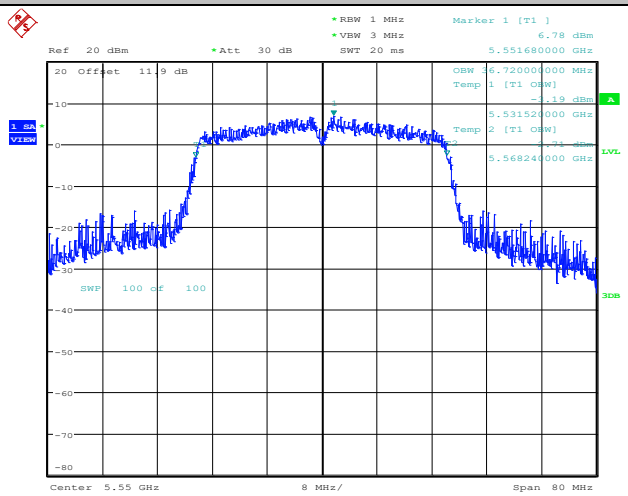

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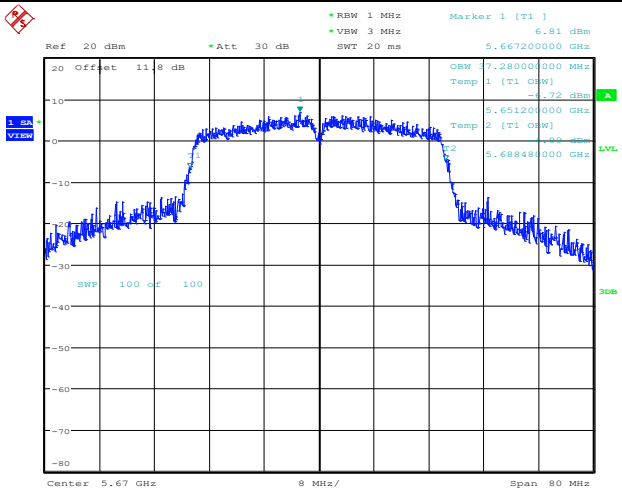

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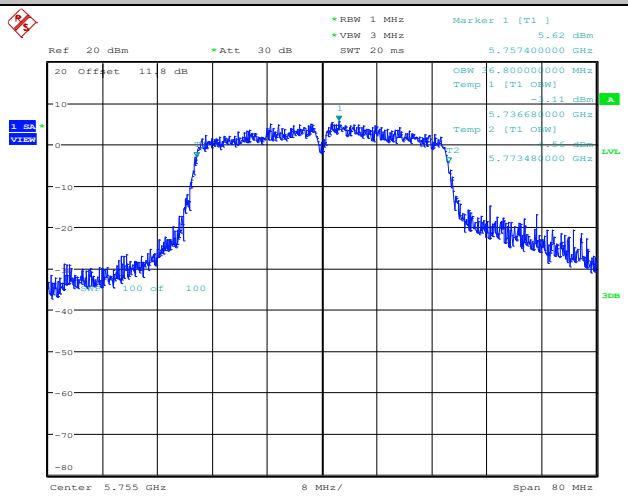

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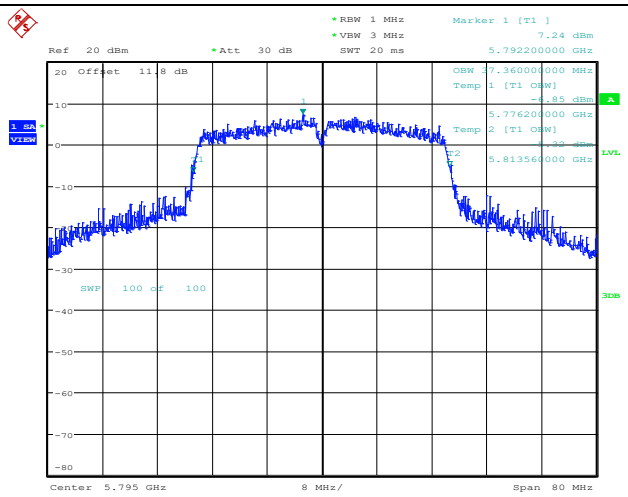

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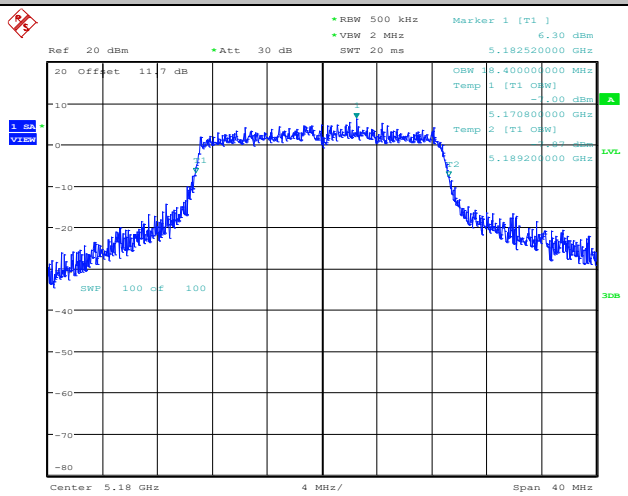

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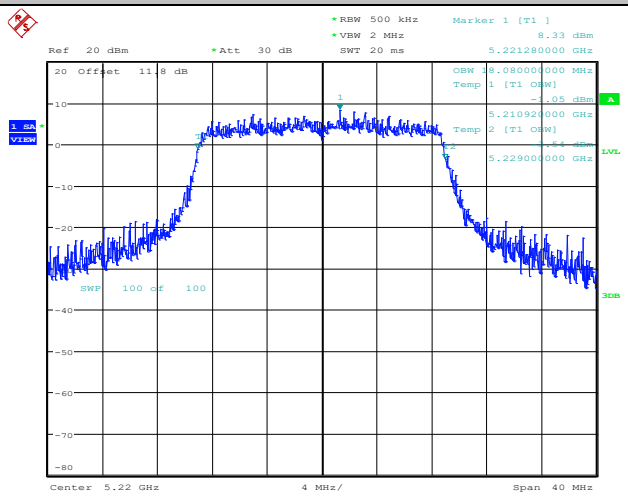

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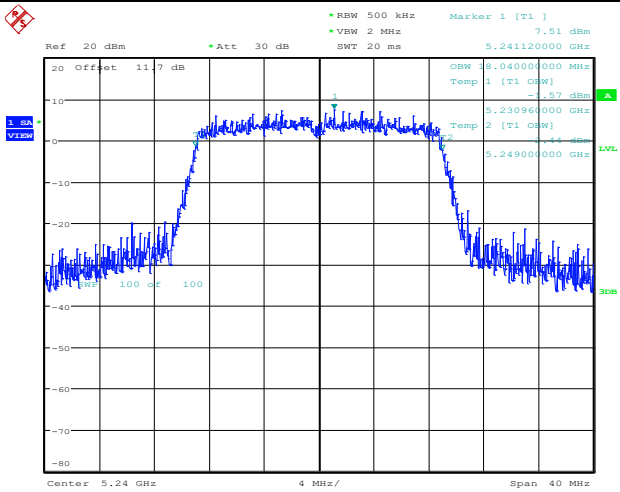

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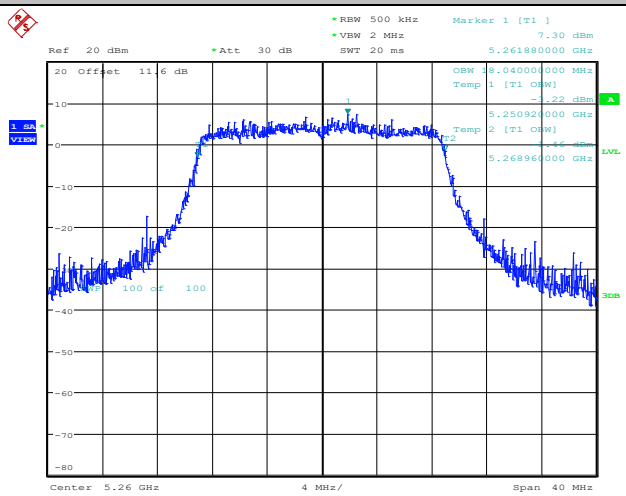

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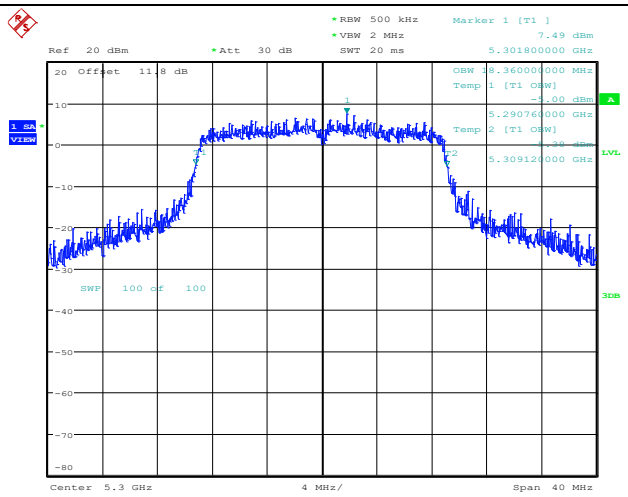

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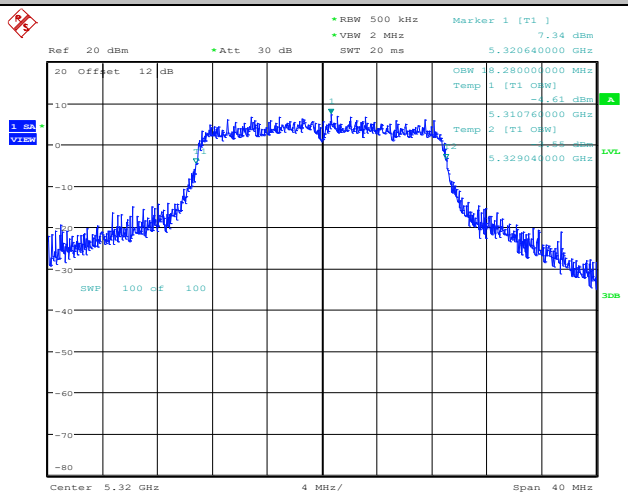

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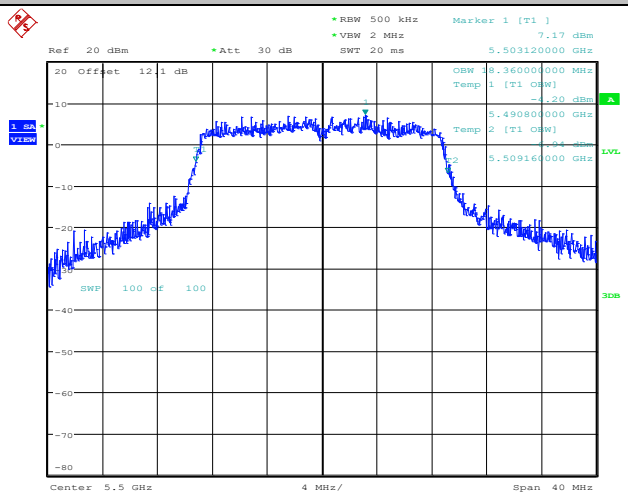

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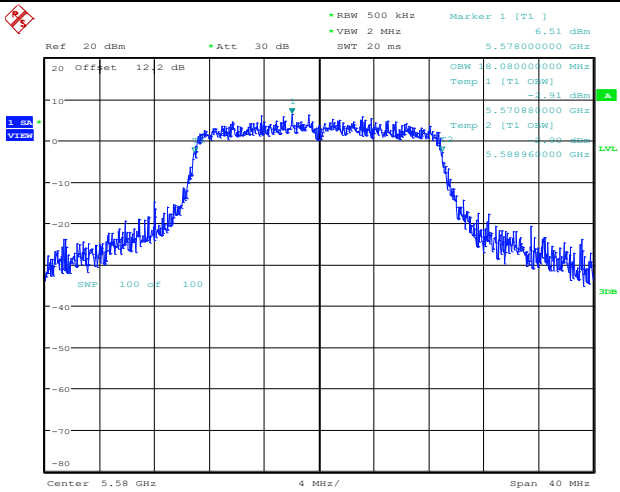

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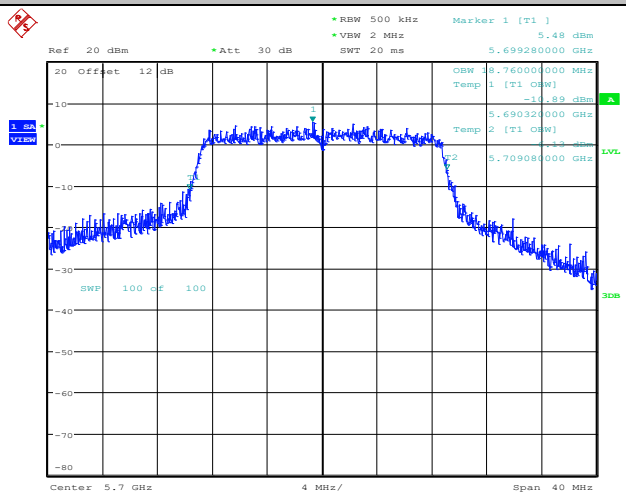

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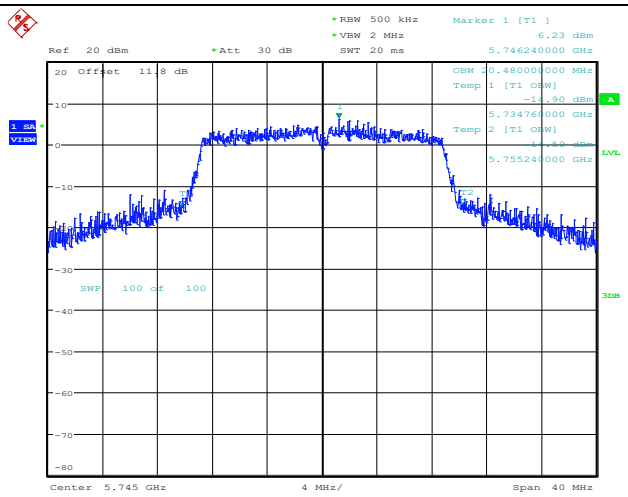

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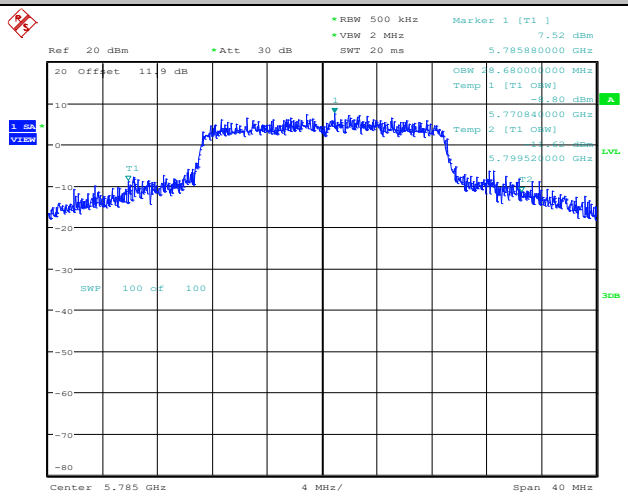

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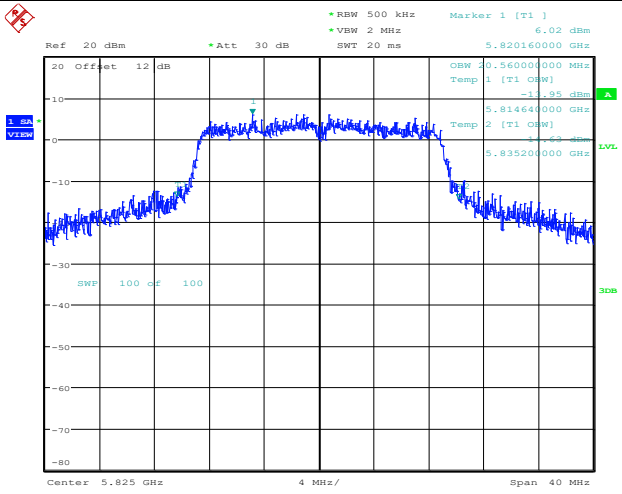

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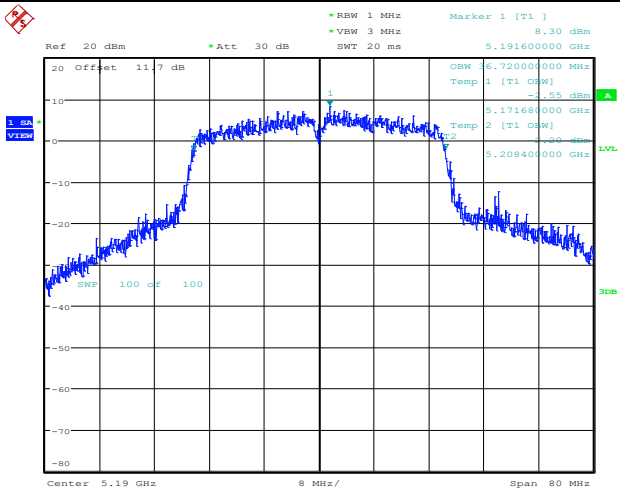

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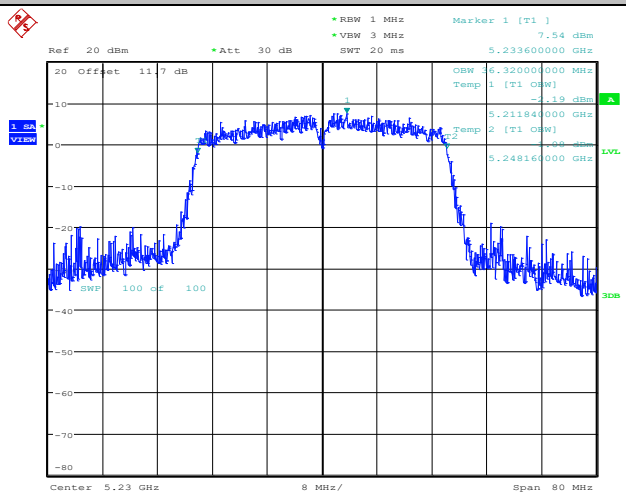

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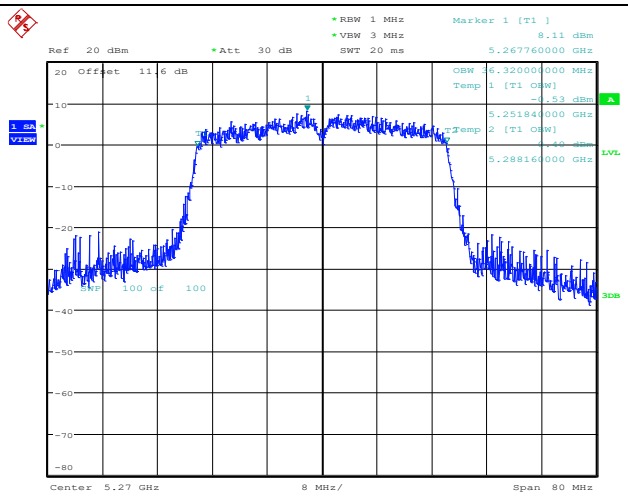

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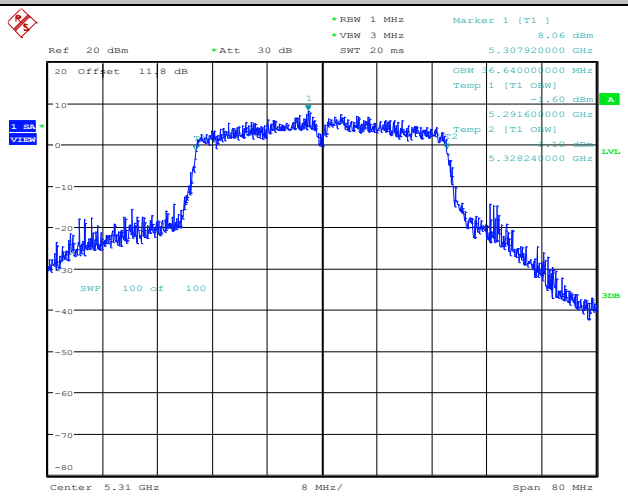

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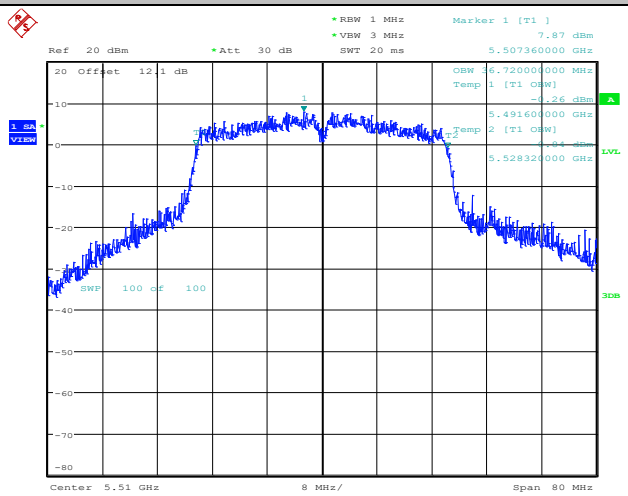

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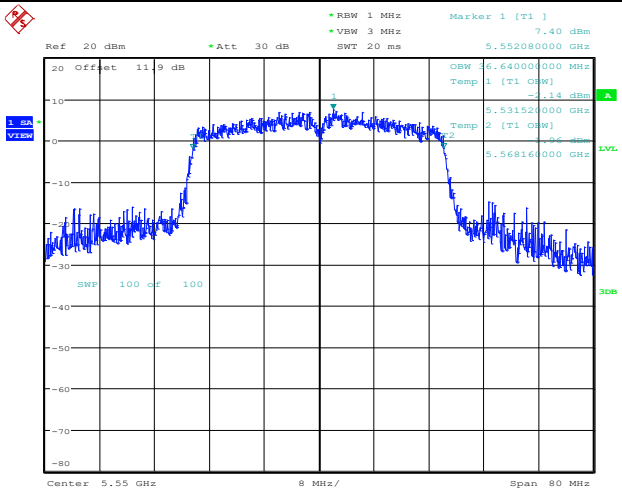

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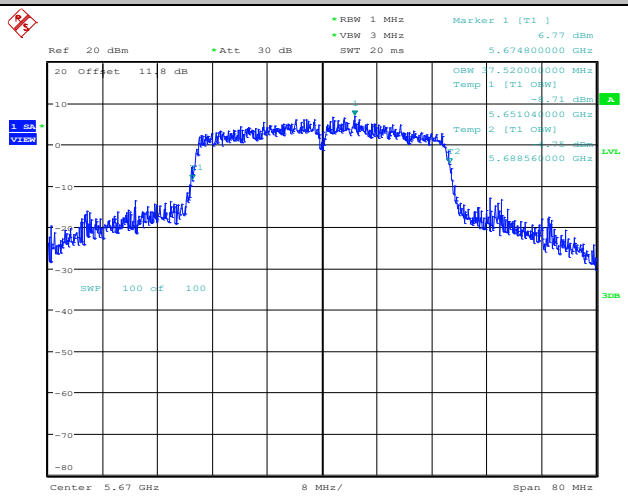

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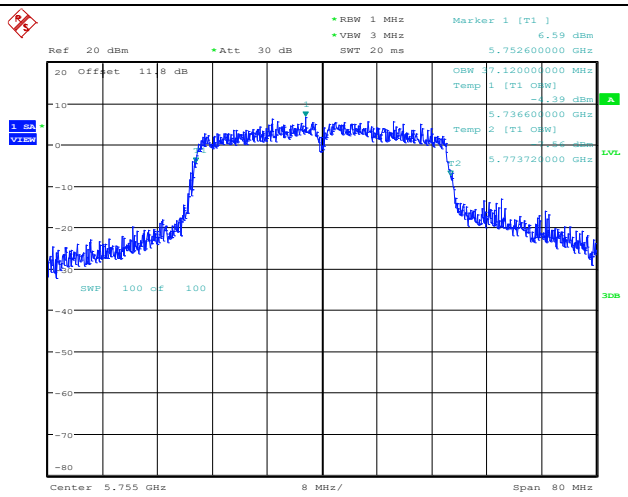

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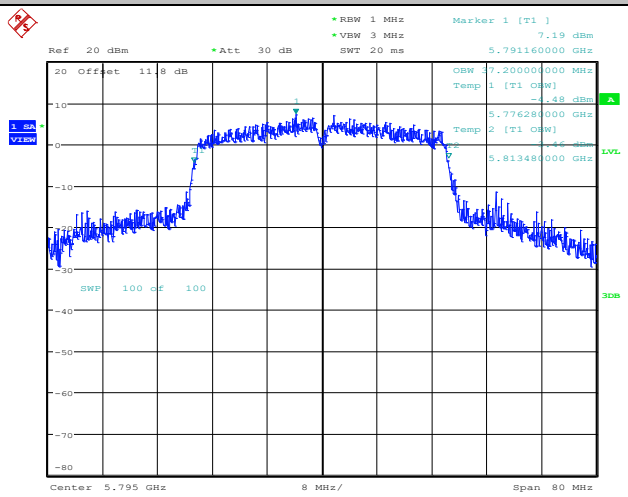

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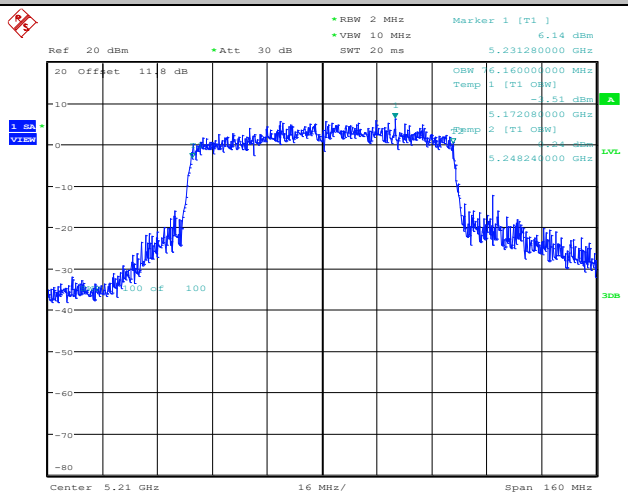
11AC80SISO_Ant1_5210



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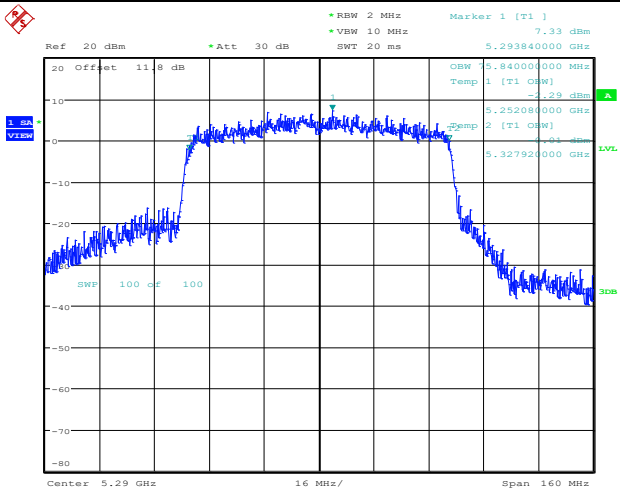

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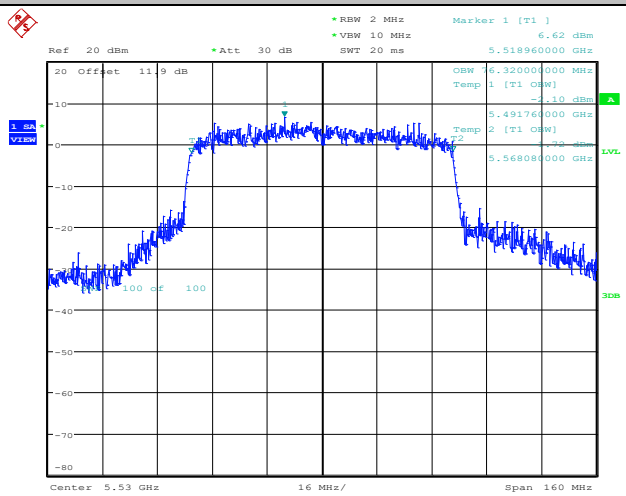

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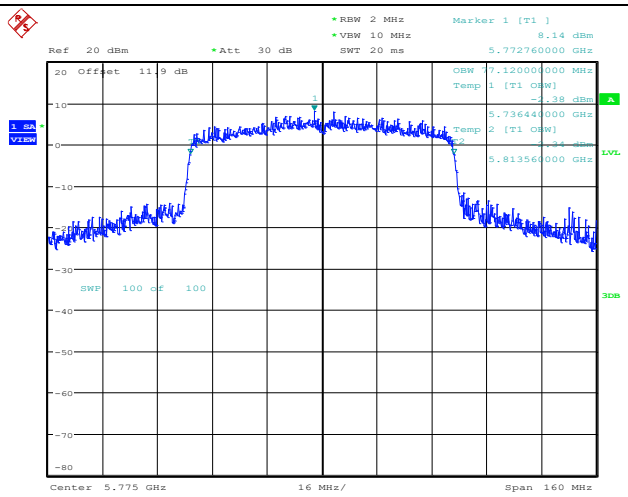

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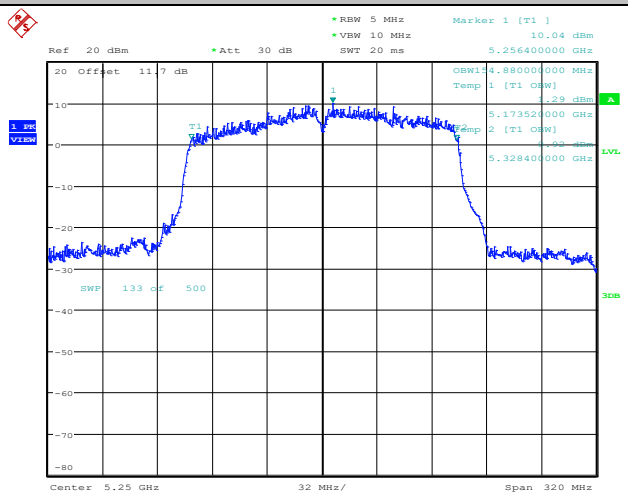

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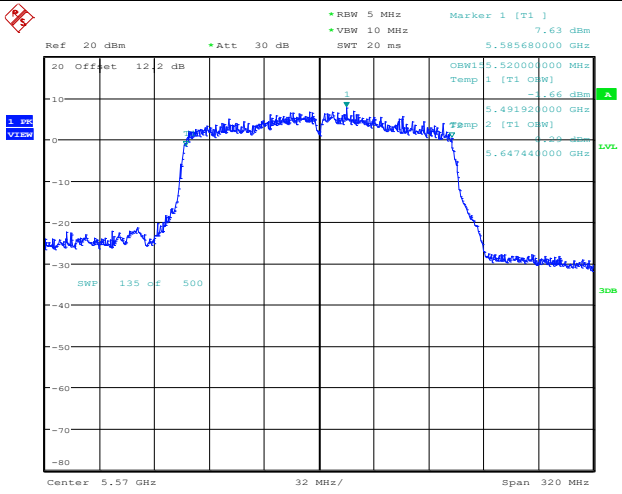

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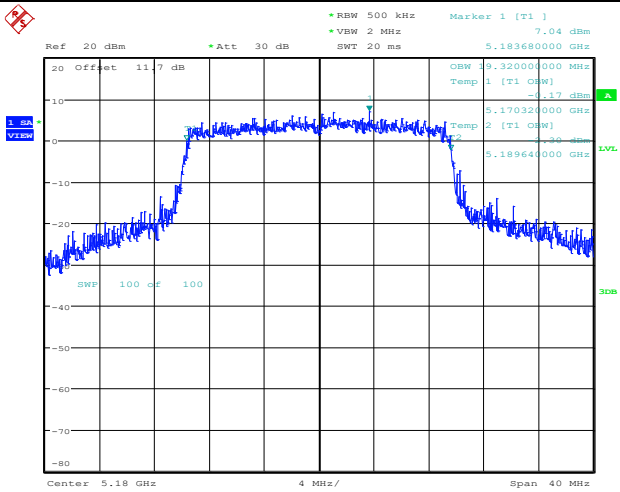

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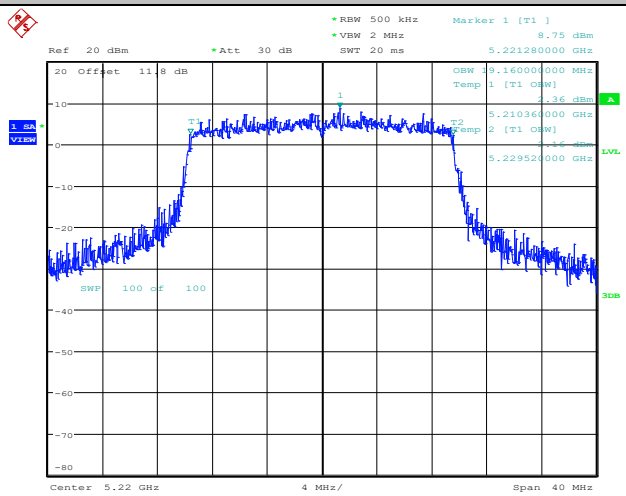

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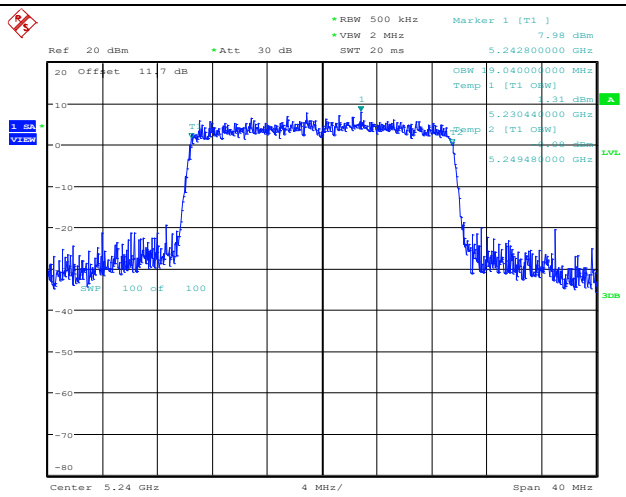

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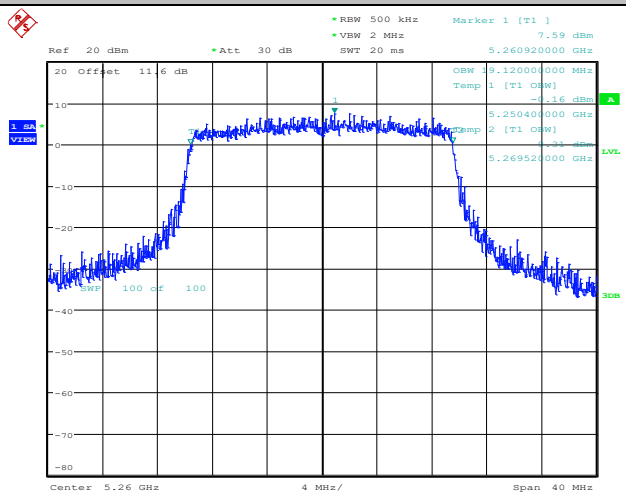

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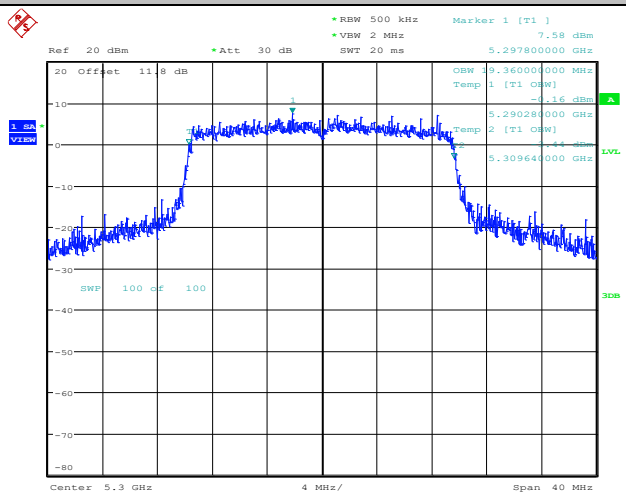

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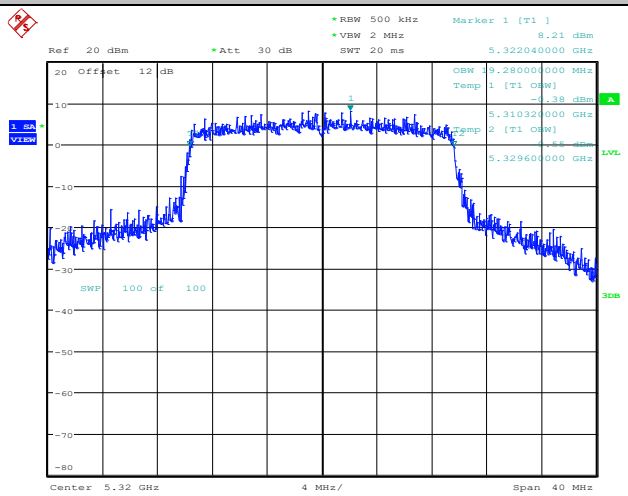

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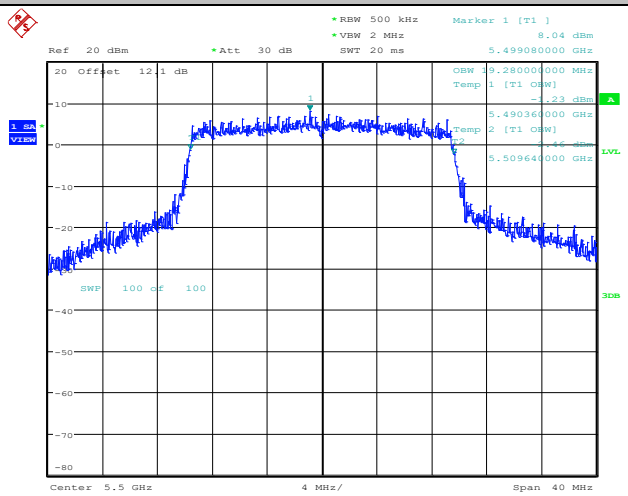

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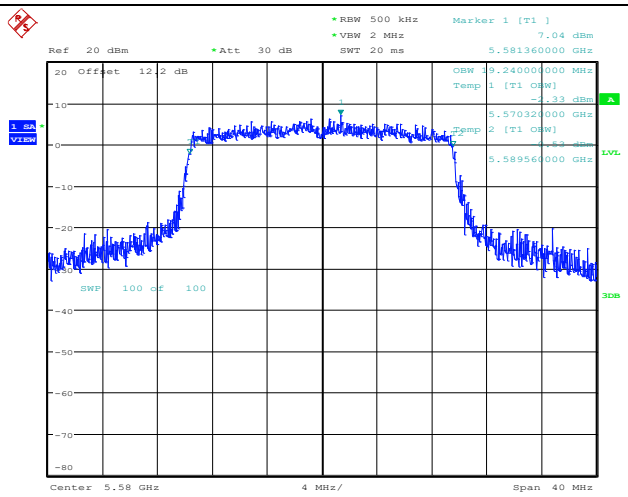

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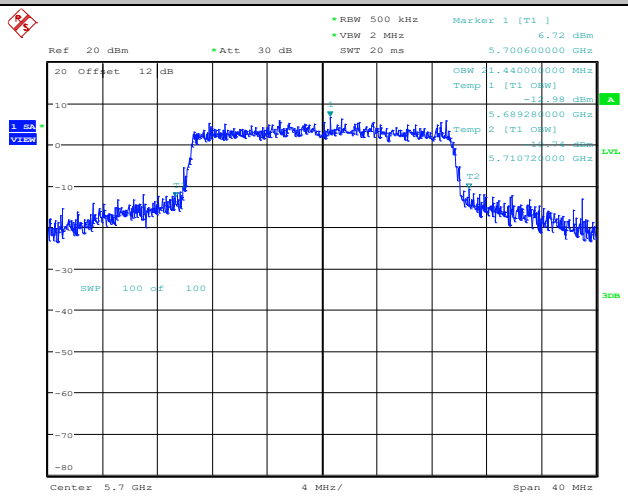

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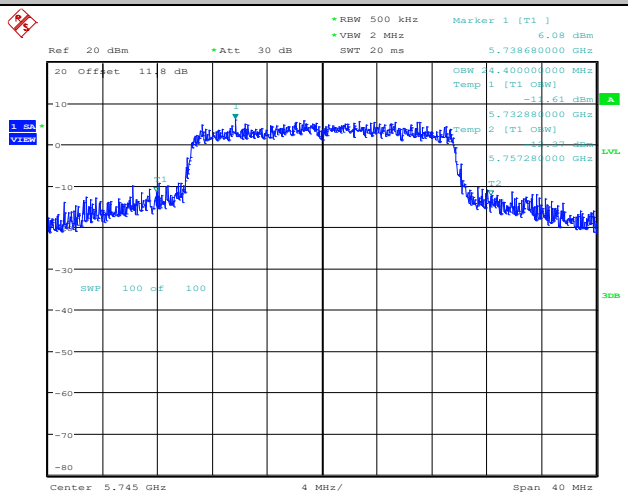

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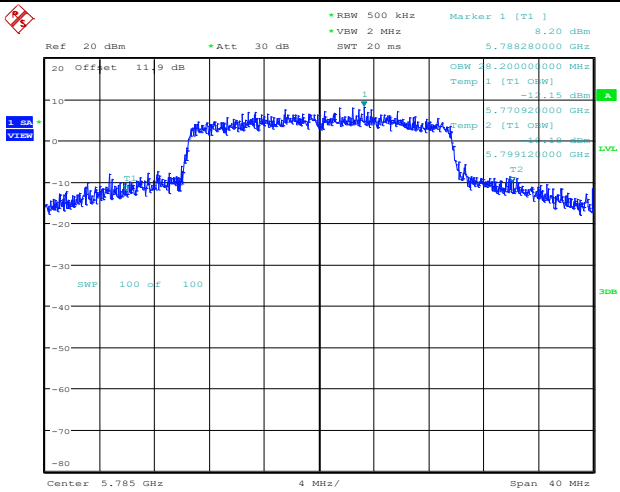

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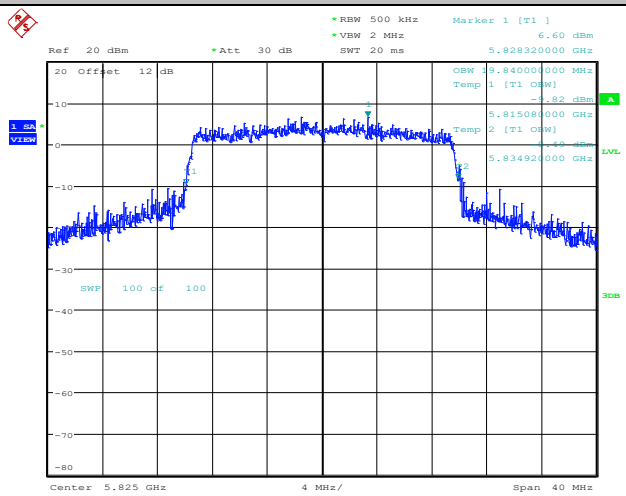

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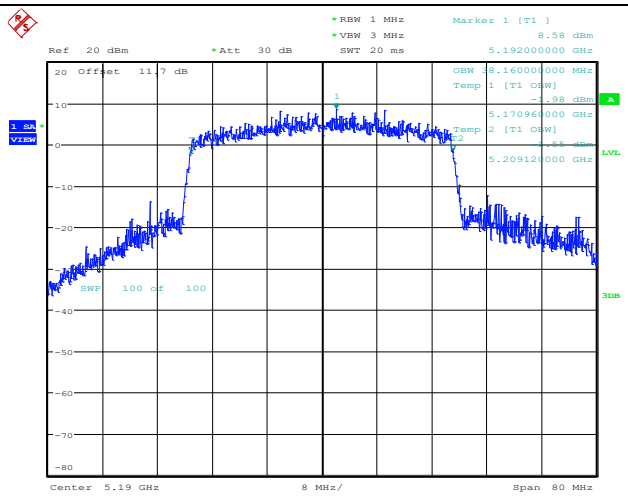

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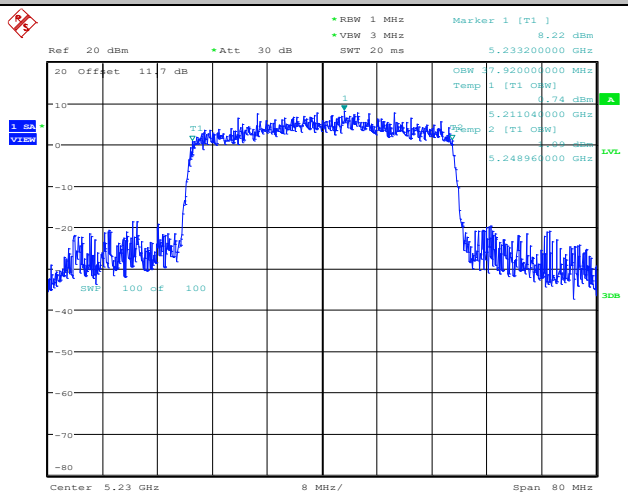

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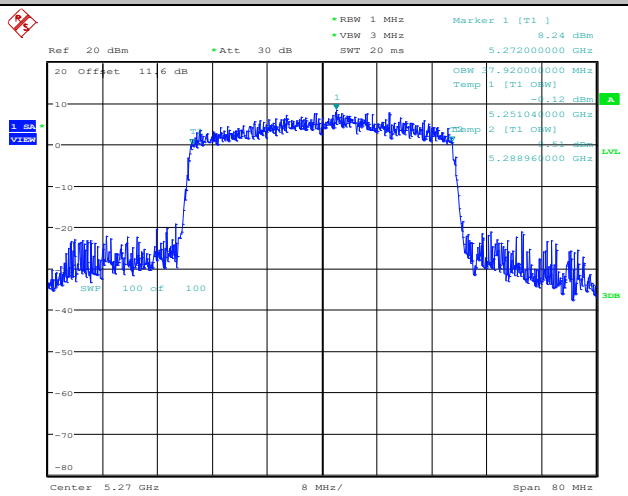

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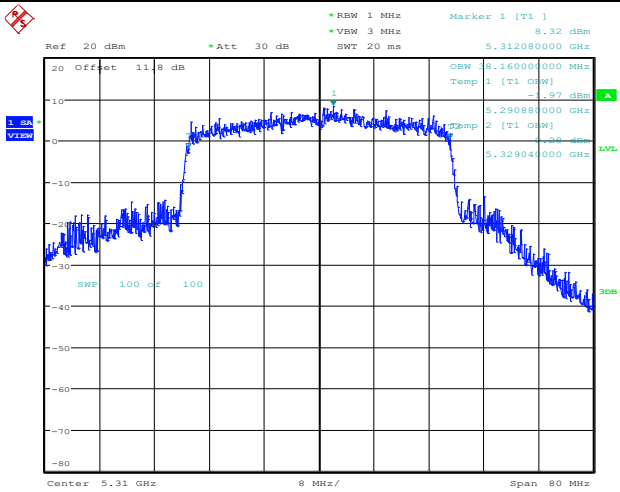

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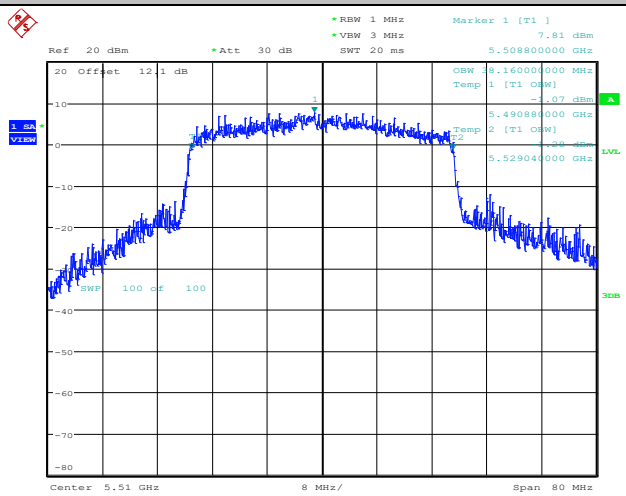
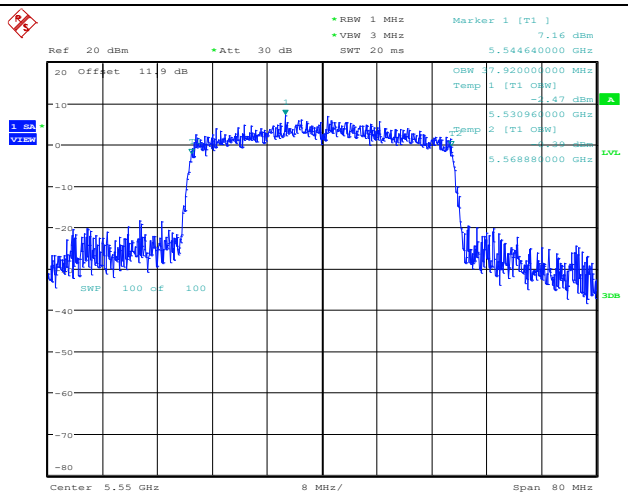


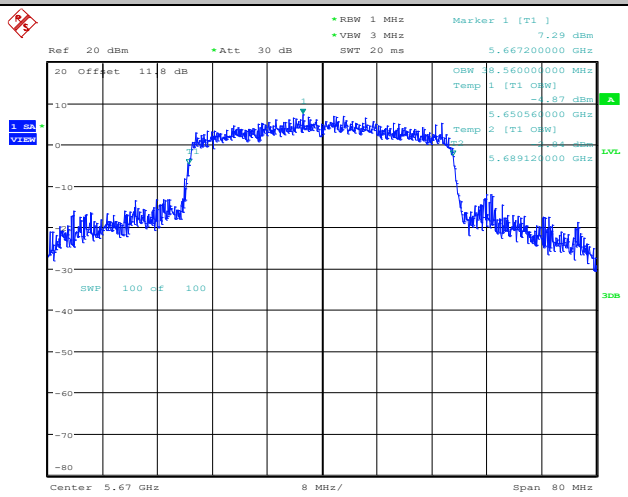
Date: 26.SEP.2024 18:54:47

11AX40SISO_Ant1_5550



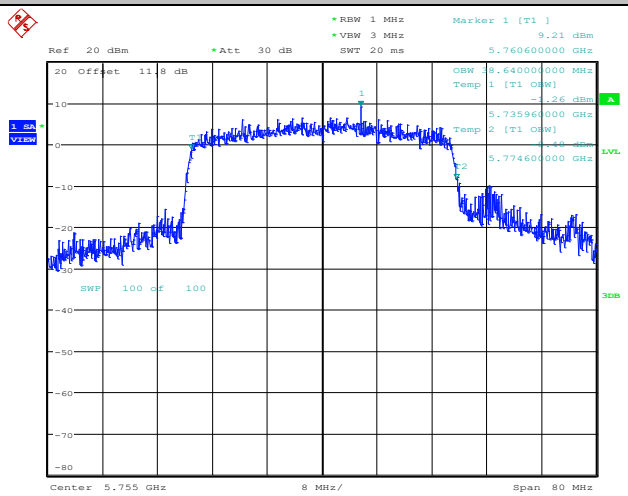
Date: 26.SEP.2024 18:57:37

11AX40SISO_Ant1_5670



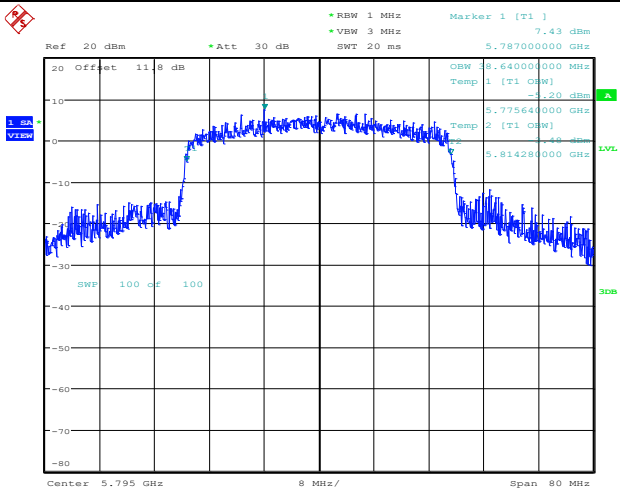
Date: 26.SEP.2024 18:59:55

11AX40SISO_Ant1_5755



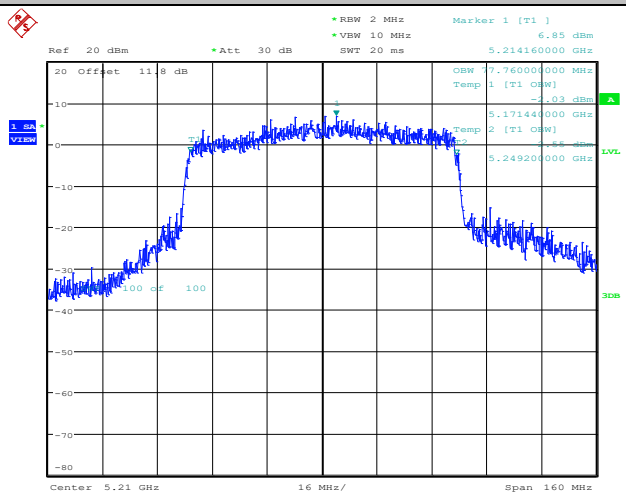
Date: 26.SEP.2024 19:09:27

11AX40SISO_Ant1_5795



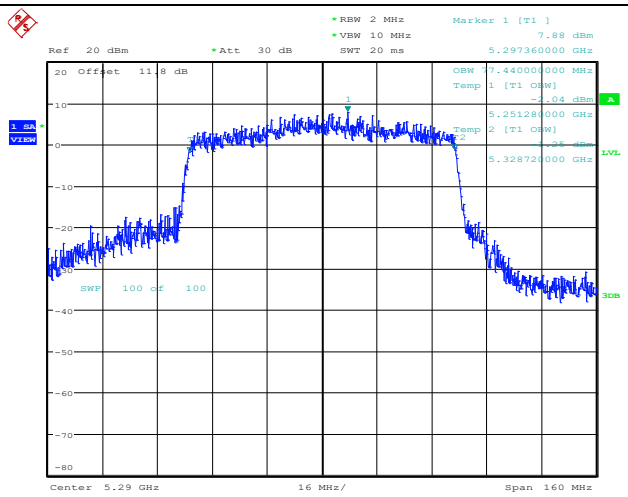
Date: 26.SEP.2024 19:12:32

11AX80SISO_Ant1_5210



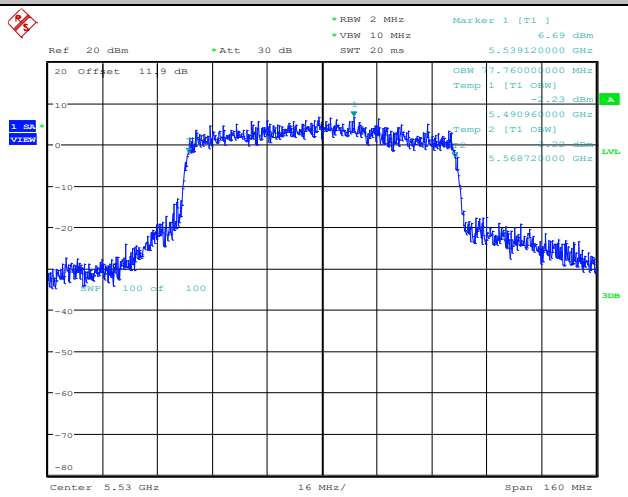
Date: 26.SEP.2024 19:15:22

11AX80SISO_Ant1_5290



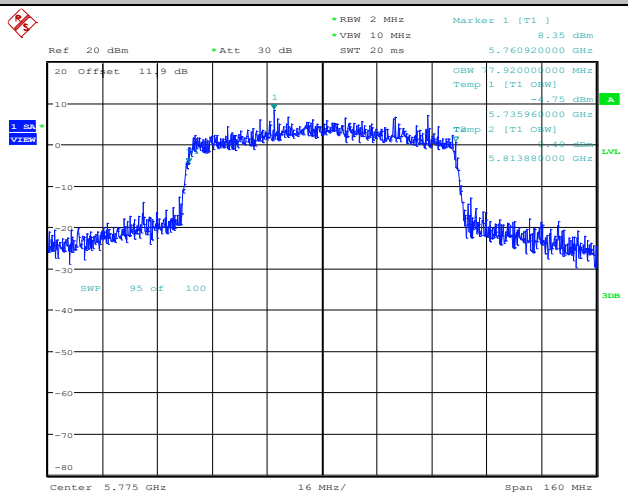
Date: 26.SEP.2024 19:18:03

11AX80SISO_Ant1_5530



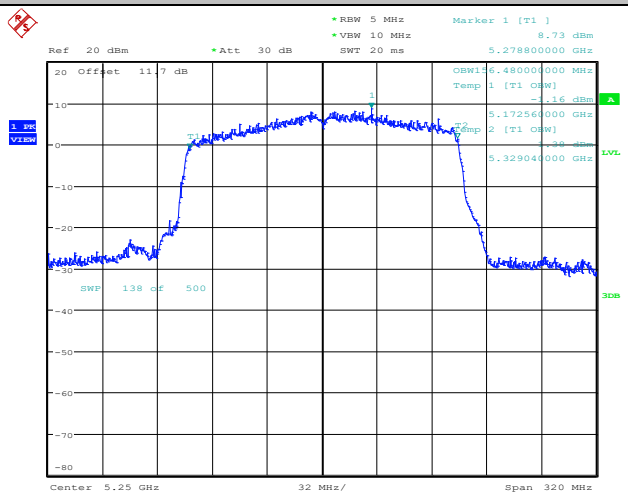
Date: 26.SEP.2024 19:20:50

11AX80SISO_Ant1_5775



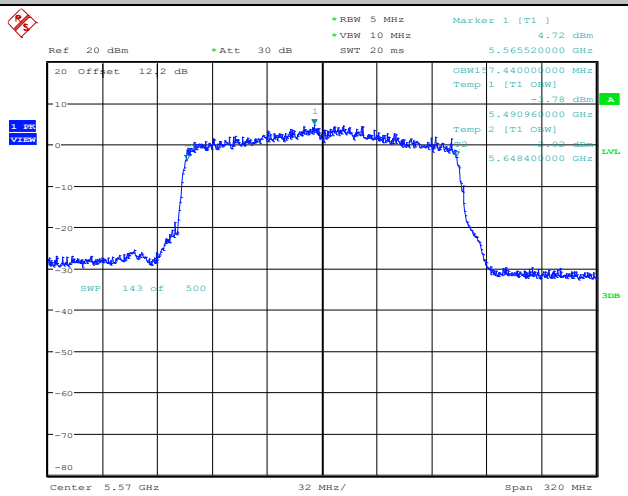
Date: 26.SEP.2024 19:23:55

11AX160SISO_Ant1_5250



Date: 26.SEP.2024 19:32:41

11AX160SISO_Ant1_5570



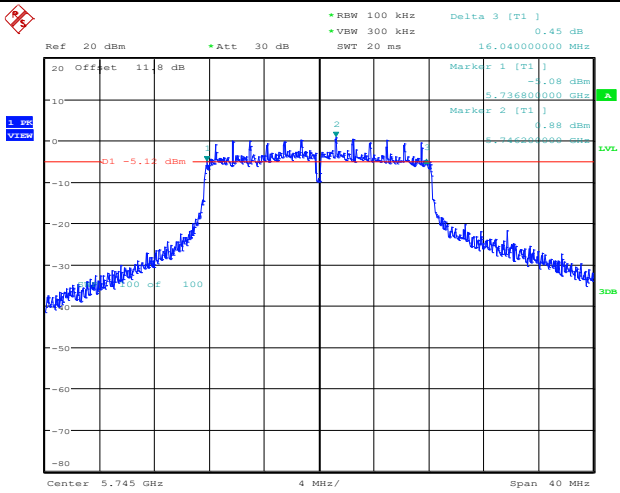
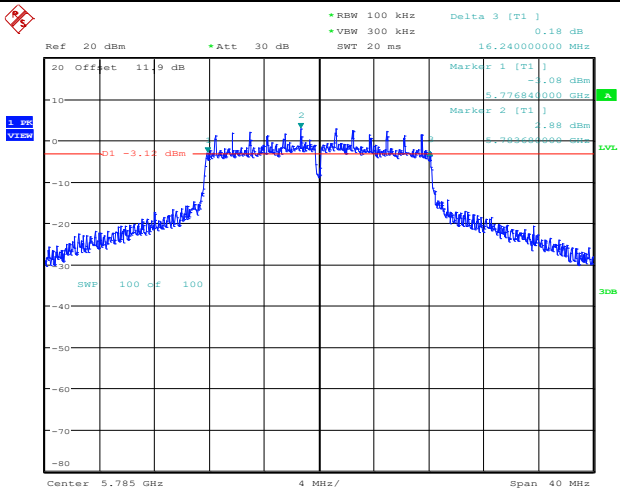
Date: 26.SEP.2024 19:35:19

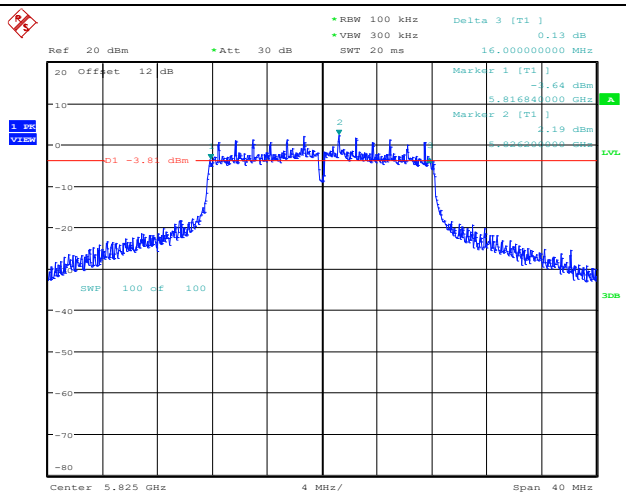
Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.04	5736.80	5752.84	0.5	PASS
		5785	16.24	5776.84	5793.08	0.5	PASS
		5825	16.00	5816.84	5832.84	0.5	PASS
11N20SISO	Ant1	5745	17.00	5736.44	5753.44	0.5	PASS
		5785	17.28	5776.44	5793.72	0.5	PASS
		5825	17.24	5816.20	5833.44	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	5736.28	5753.80	0.5	PASS
		5785	17.52	5776.36	5793.88	0.5	PASS
		5825	17.52	5816.36	5833.88	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20SISO	Ant1	5745	17.84	5736.32	5754.16	0.5	PASS
		5785	16.80	5777.08	5793.88	0.5	PASS
		5825	18.32	5815.64	5833.96	0.5	PASS
11AX40SISO	Ant1	5755	36.40	5737.40	5773.80	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

Test Graphs B4

11A_Ant1_5745
 Date: 26.SEP.2024 14:27:27
11A_Ant1_5785
 Date: 26.SEP.2024 14:30:41
11A_Ant1_5825



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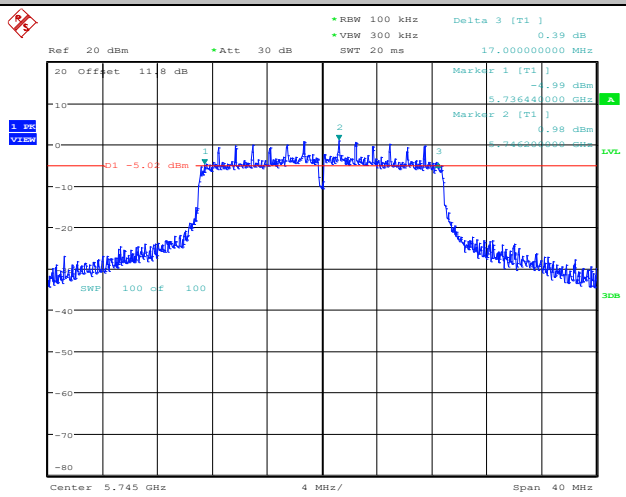
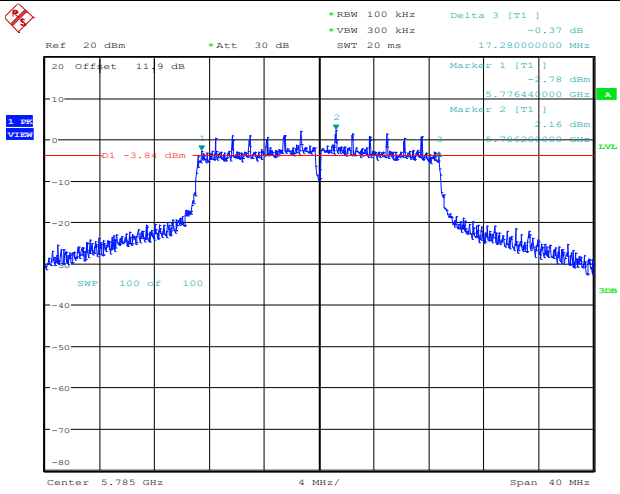
11N20SISO_Ant1_5745



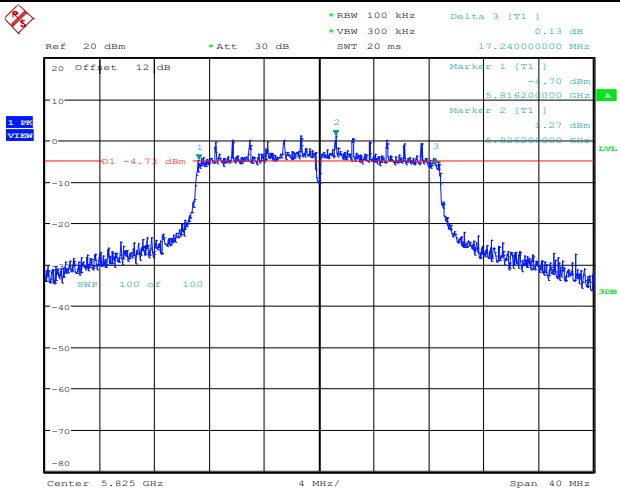
Date: 26.SEP.2024 15:03:26

11N20SISO_Ant1_5785



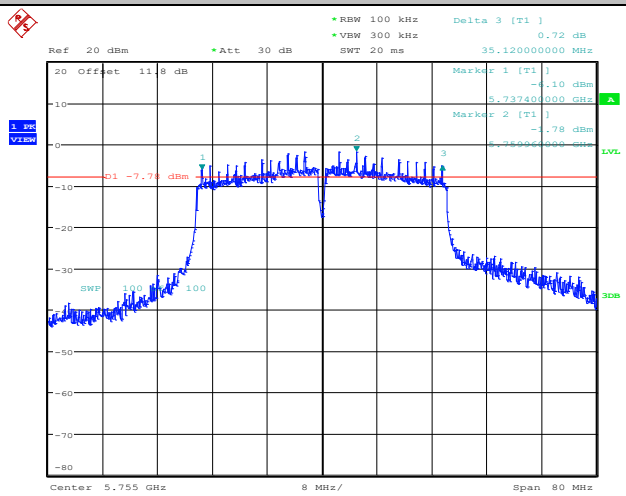
Date: 26.SEP.2024 15:07:01

11N20SISO_Ant1_5825



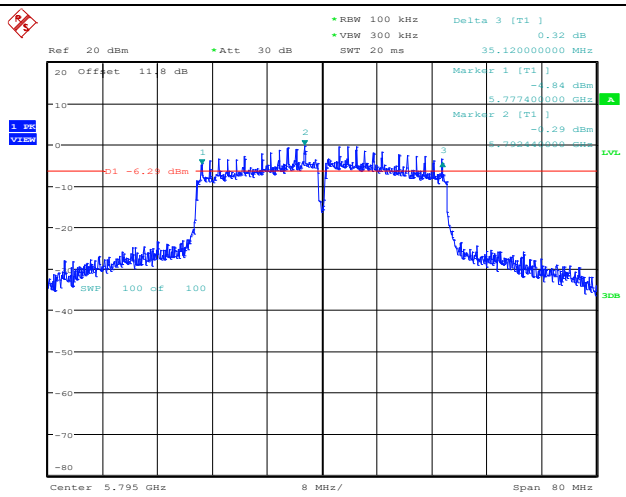
Date: 26.SEP.2024 15:09:31

11N40SISO_Ant1_5755



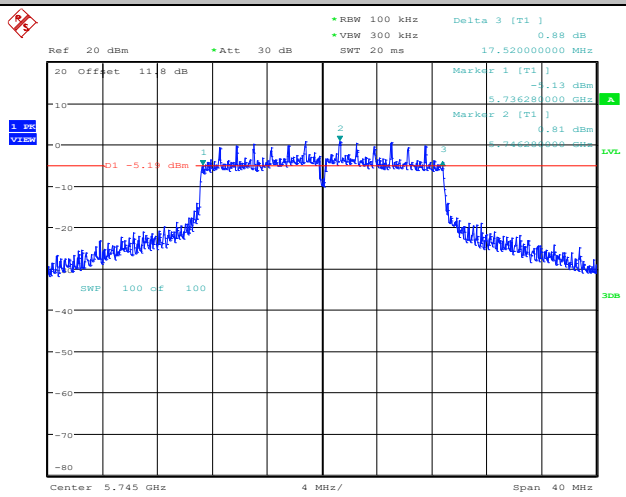
Date: 26.SEP.2024 15:35:25

11N40SISO_Ant1_5795



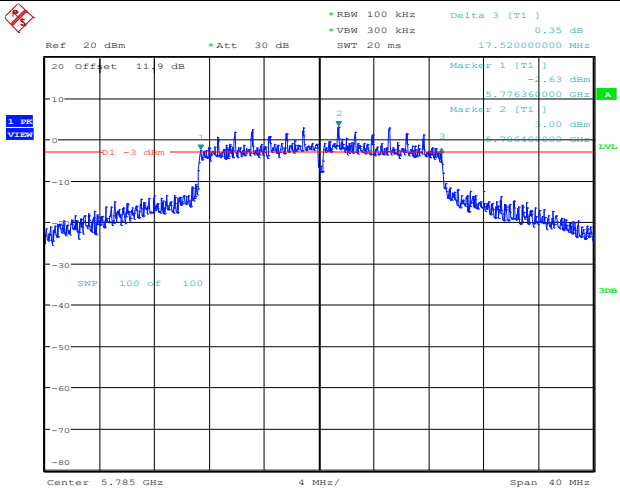
Date: 26.SEP.2024 15:38:29

11AC20SISO_Ant1_5745



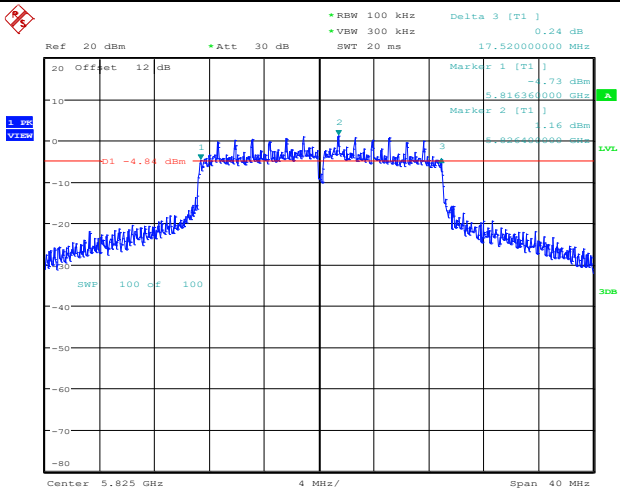
Date: 26.SEP.2024 16:11:14

11AC20SISO_Ant1_5785



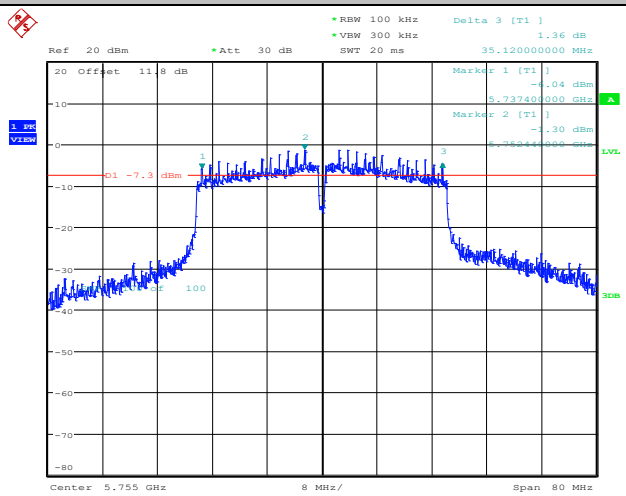
Date: 26.SEP.2024 16:14:18

11AC20SISO_Ant1_5825



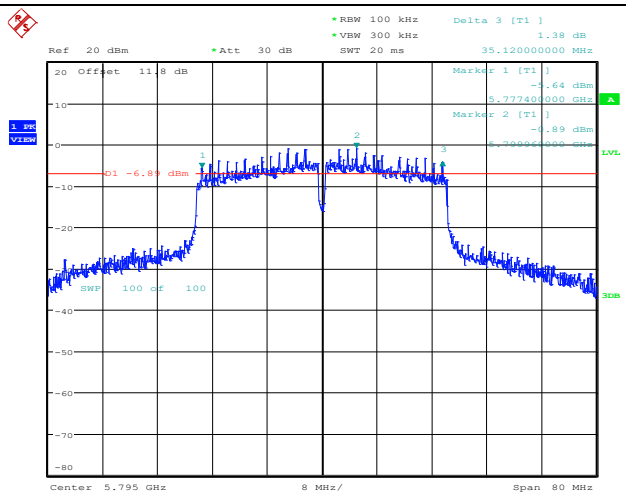
Date: 26.SEP.2024 16:17:00

11AC40SISO_Ant1_5755



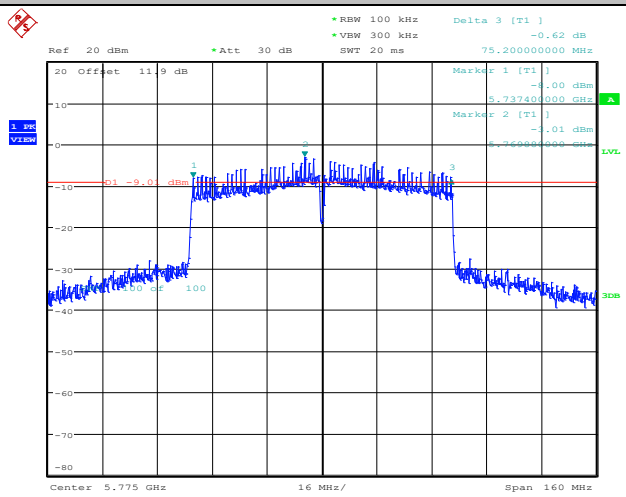
Date: 26.SEP.2024 16:38:55

11AC40SISO_Ant1_5795



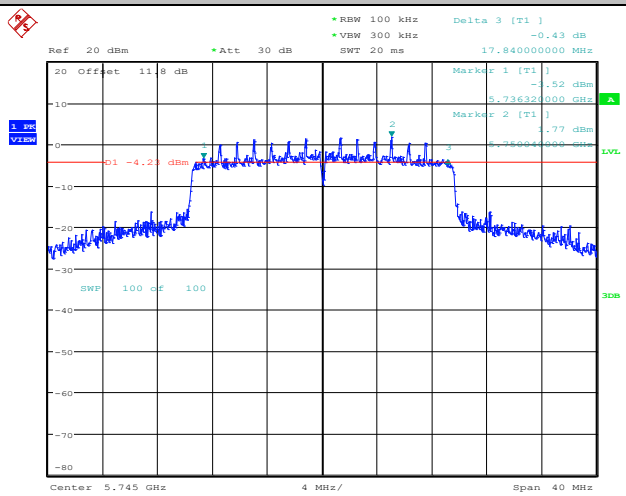
Date: 26.SEP.2024 16:42:04

11AC80SISO_Ant1_5775



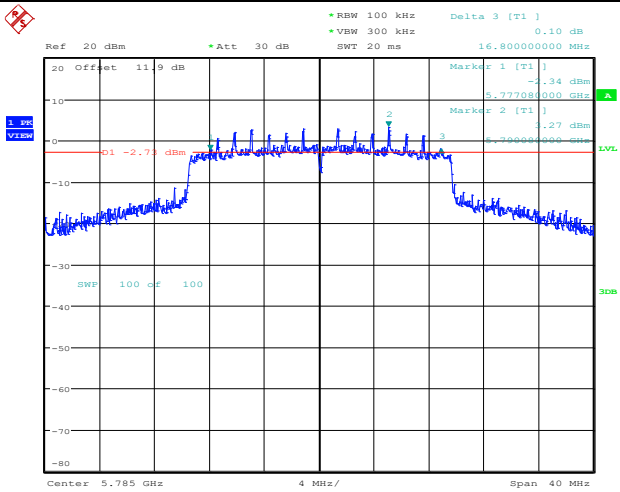
Date: 26.SEP.2024 17:36:03

11AX20SISO_Ant1_5745



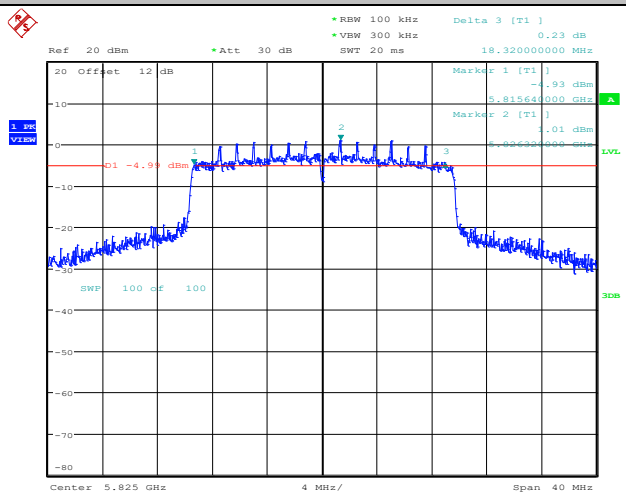
Date: 26.SEP.2024 18:35:23

11AX20SISO_Ant1_5785



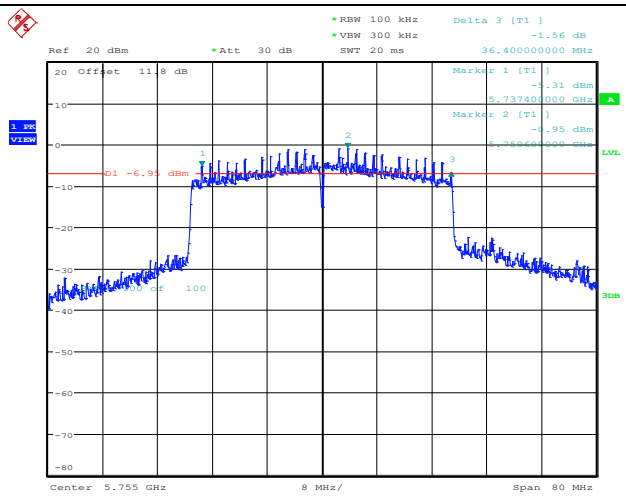
Date: 26.SEP.2024 18:38:26

11AX20SISO_Ant1_5825



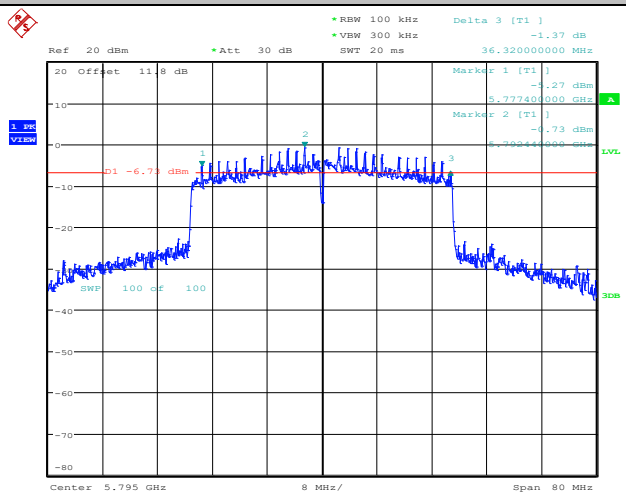
Date: 26.SEP.2024 18:41:06

11AX40SISO_Ant1_5755



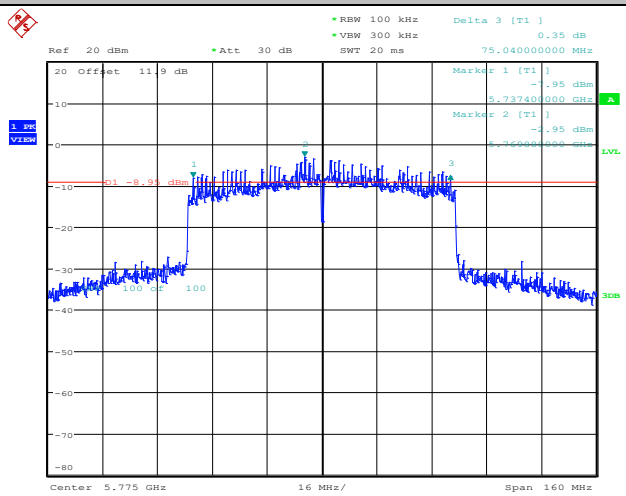
Date: 26.SEP.2024 19:09:11

11AX40SISO_Ant1_5795



Date: 26.SEP.2024 19:12:16

11AX80SISO_Ant1_5775



Date: 26.SEP.2024 19:23:39

Appendix B: Duty Cycle

Test Result

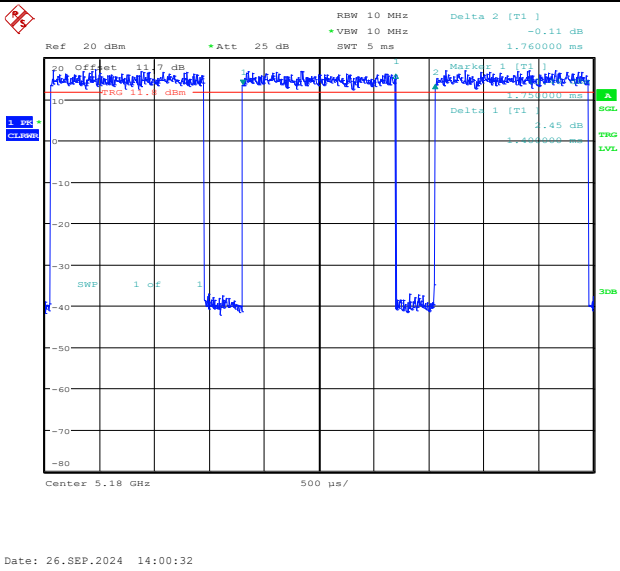
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	1.76	79.55	---	---
		5220	1.40	1.75	80.00	---	---
		5240	1.40	1.76	79.55	---	---
		5260	1.40	1.75	80.00	---	---
		5300	1.40	1.75	80.00	---	---
		5320	1.40	1.75	80.00	---	---
		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	1.41	1.76	80.11	---	---
		5825	1.40	1.75	80.00	---	---
11N20SISO	Ant1	5180	1.31	1.66	78.92	---	---
		5220	1.31	1.66	78.92	---	---
		5240	1.31	1.66	78.92	---	---
		5260	1.30	1.65	78.79	---	---
		5300	1.31	1.66	78.92	---	---
		5320	1.31	1.66	78.92	---	---
		5500	1.31	1.66	78.92	---	---
		5580	1.31	1.84	71.20	---	---
		5700	1.31	1.66	78.92	---	---
		5745	1.30	1.66	78.31	---	---
		5785	1.31	1.66	78.92	---	---
		5825	1.31	1.66	78.92	---	---
11N40SISO	Ant1	5190	0.65	1.01	64.36	---	---
		5230	0.65	1.01	64.36	---	---
		5270	0.65	1.01	64.36	---	---
		5310	0.65	1.01	64.36	---	---
		5510	0.65	1.01	64.36	---	---
		5550	0.65	1.01	64.36	---	---
		5670	0.65	1.01	64.36	---	---
		5755	0.65	1.01	64.36	---	---
		5795	0.65	1.01	64.36	---	---
11AC20SISO	Ant1	5180	0.68	1.05	64.76	---	---

		5220	0.68	1.04	65.38	---	---
		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	0.68	1.04	65.38	---	---
		5825	0.68	1.04	65.38	---	---
11AC40SISO	Ant1	5190	0.36	0.72	50.00	---	---
		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	0.71	49.30	---	---
		5670	0.35	0.71	49.30	---	---
		5755	0.35	0.70	50.00	---	---
		5795	0.35	0.71	49.30	---	---
11AC80SISO	Ant1	5210	0.18	0.52	34.62	---	---
		5290	0.19	0.52	36.54	---	---
		5530	0.18	0.54	33.33	---	---
		5775	0.18	0.52	34.62	---	---
11AC160SISO	Ant1	5250	0.11	0.46	23.91	---	---
		5570	0.12	0.47	25.53	---	---
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	0.92	60.87	---	---
		5700	0.56	0.92	60.87	---	---
		5745	0.56	0.92	60.87	---	---
		5785	0.56	0.92	60.87	---	---
		5825	0.56	0.92	60.87	---	---
11AX40SISO	Ant1	5190	0.20	0.53	37.74	---	---
		5230	0.21	0.53	39.62	---	---
		5270	0.21	0.53	39.62	---	---
		5310	0.20	0.53	37.74	---	---
		5510	0.20	0.53	37.74	---	---

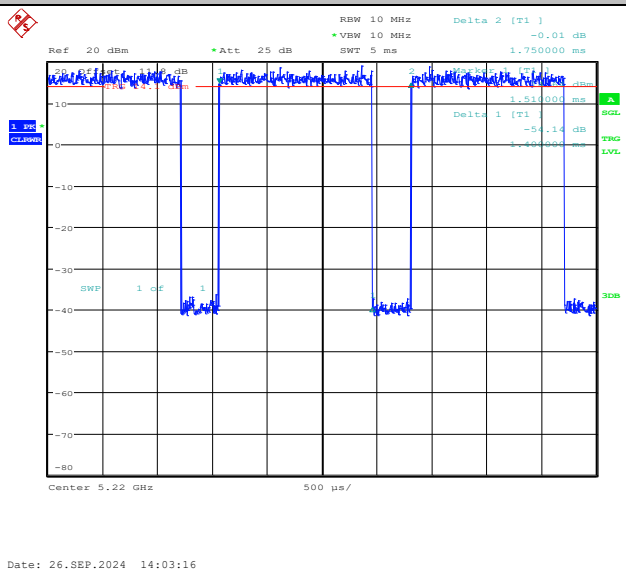
		5550	0.20	0.53	37.74	---	---
		5670	0.21	0.53	39.62	---	---
		5755	0.20	0.52	38.46	---	---
		5795	0.21	0.53	39.62	---	---
11AX80SISO	Ant1	5210	0.19	0.55	34.55	---	---
		5290	0.19	0.55	34.55	---	---
		5530	0.20	0.56	35.71	---	---
		5775	0.20	0.56	35.71	---	---
11AX160SISO	Ant1	5250	0.14	0.50	28.00	---	---
		5570	0.13	0.49	26.53	---	---

Test Graphs

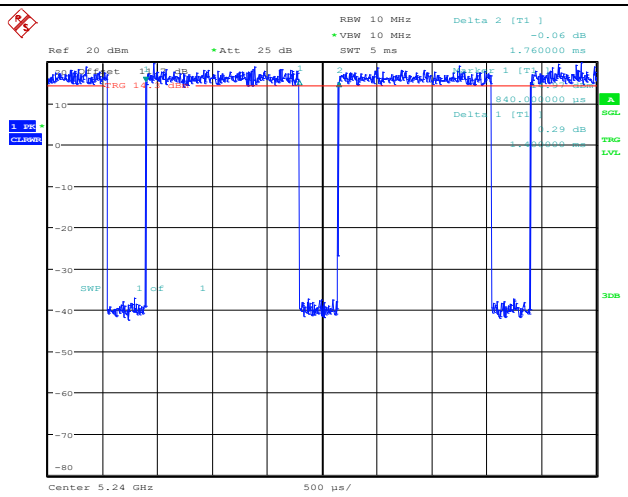
11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



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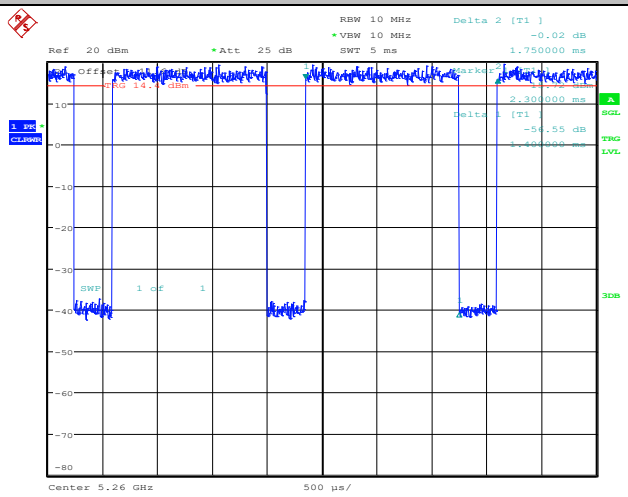

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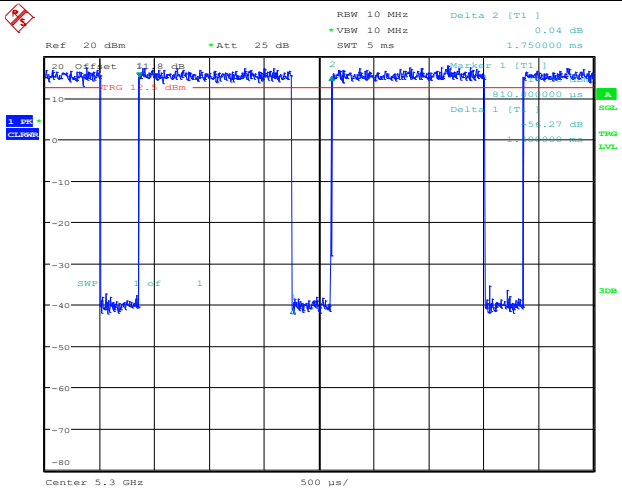
11A_Ant1_5300



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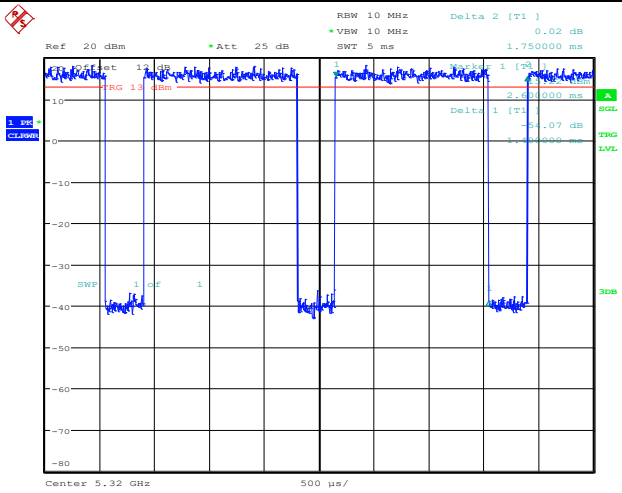
11A_Ant1_5320



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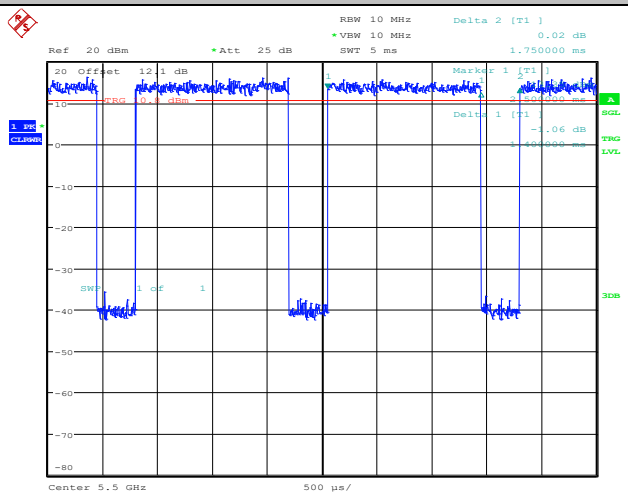
11A_Ant1_5500



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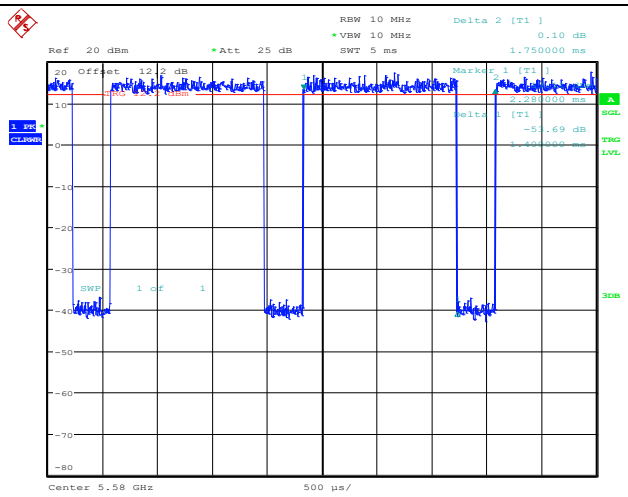
11A_Ant1_5580



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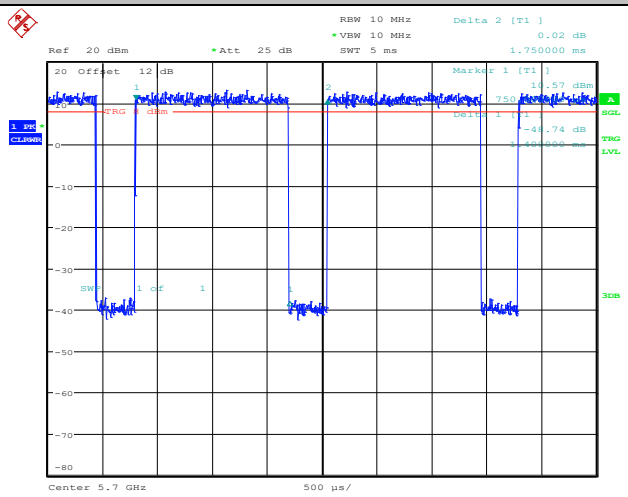
11A_Ant1_5700



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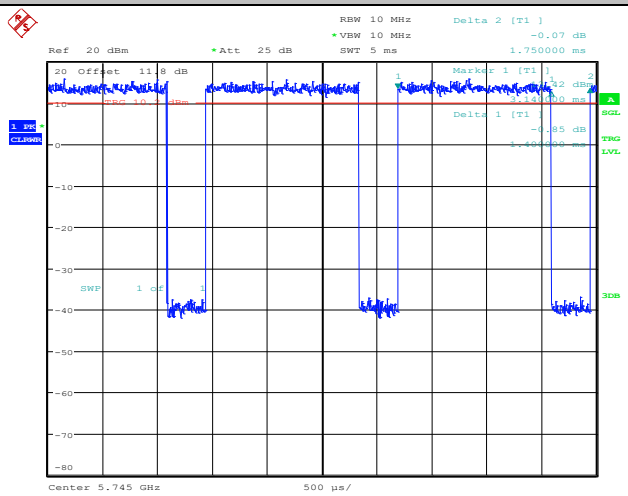

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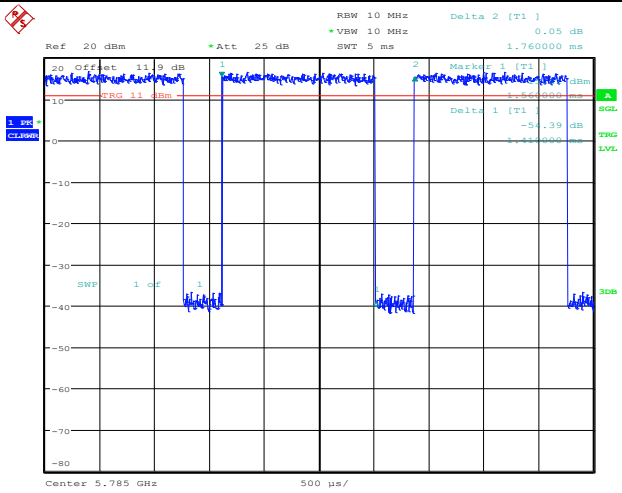

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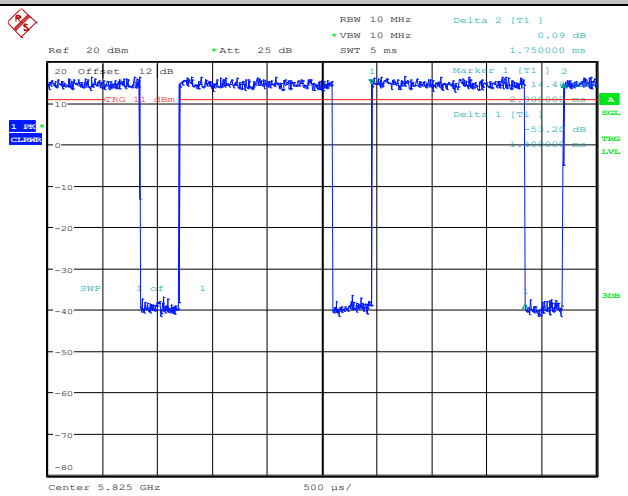

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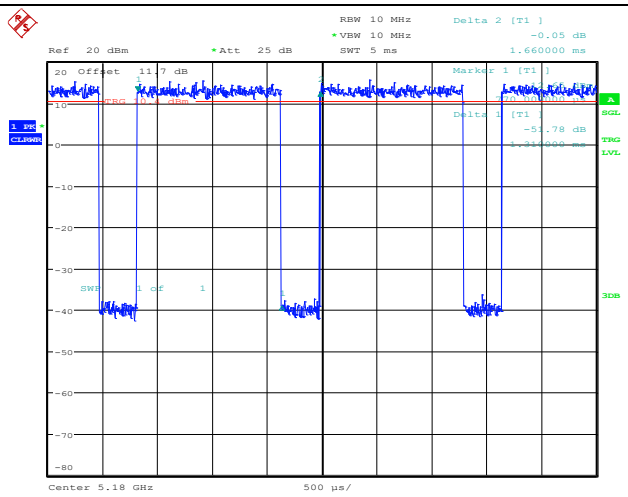
11N20SISO_Ant1_5180



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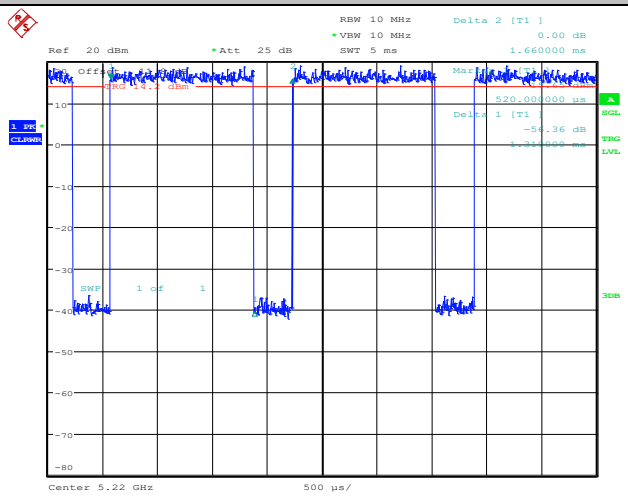

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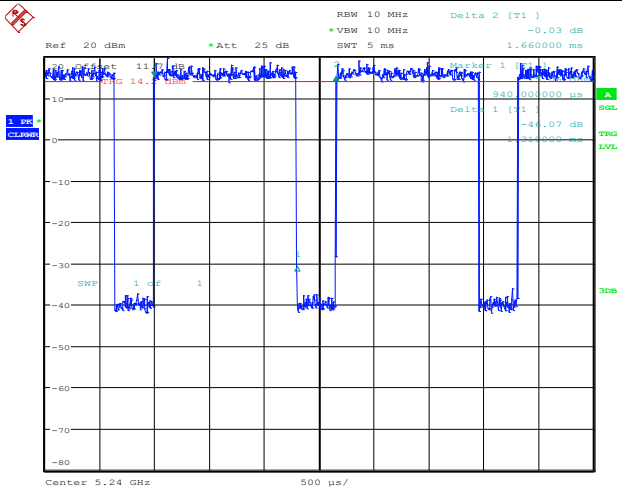

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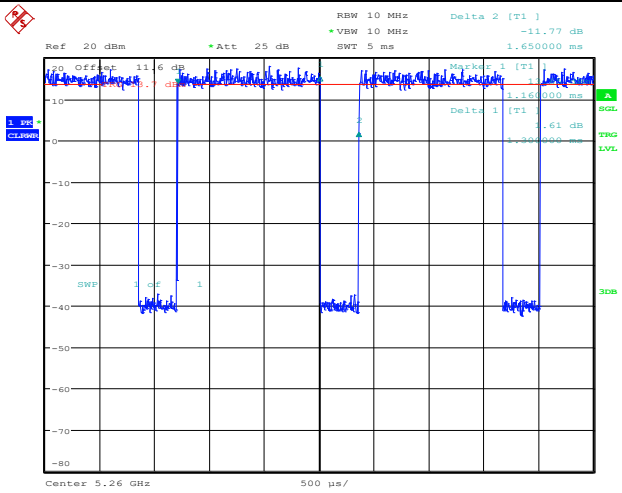

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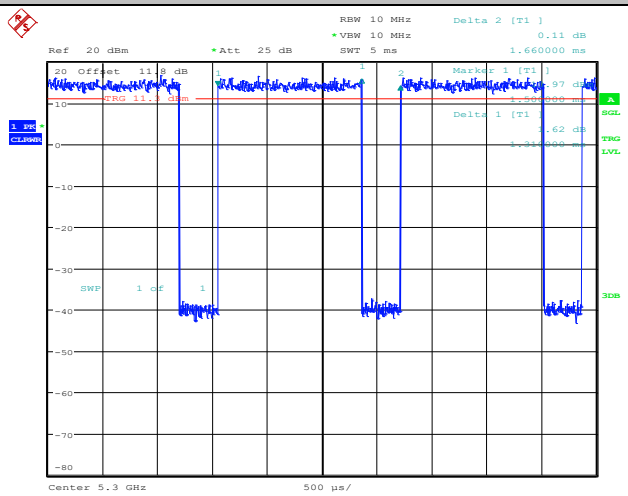
11N20SISO_Ant1_5300



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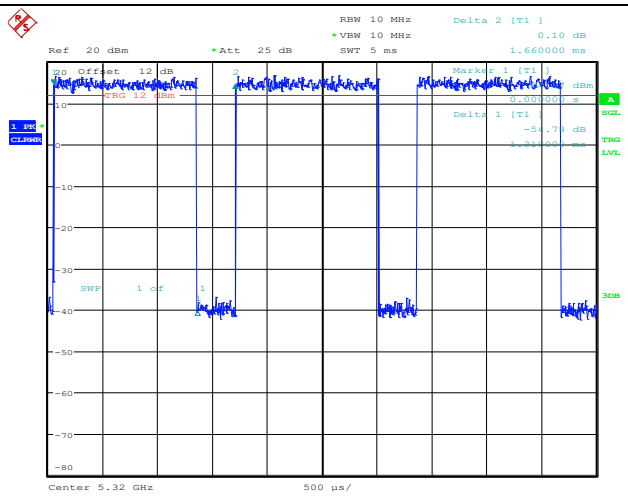

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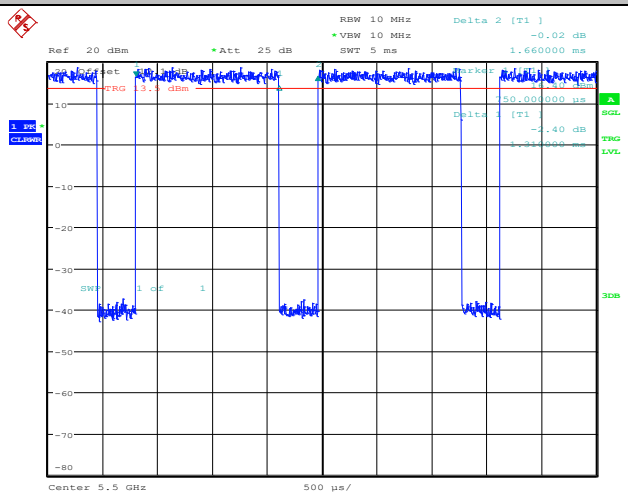

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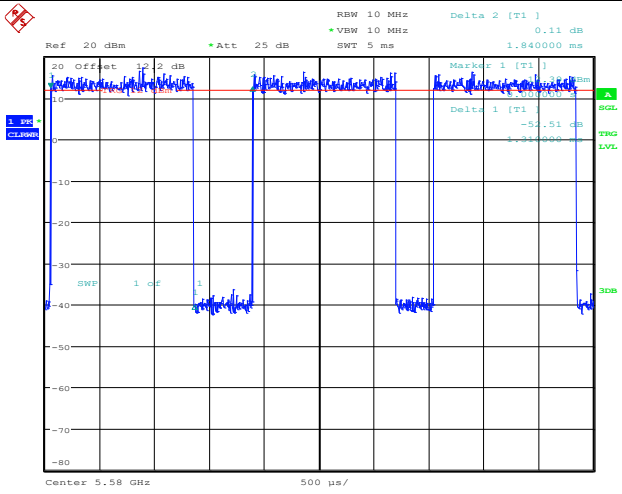

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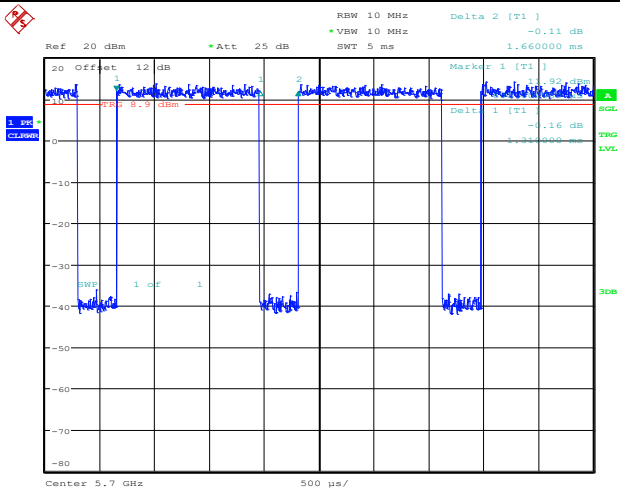

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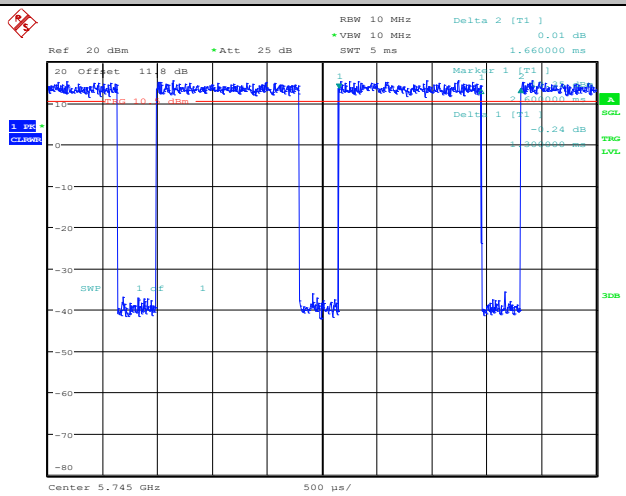

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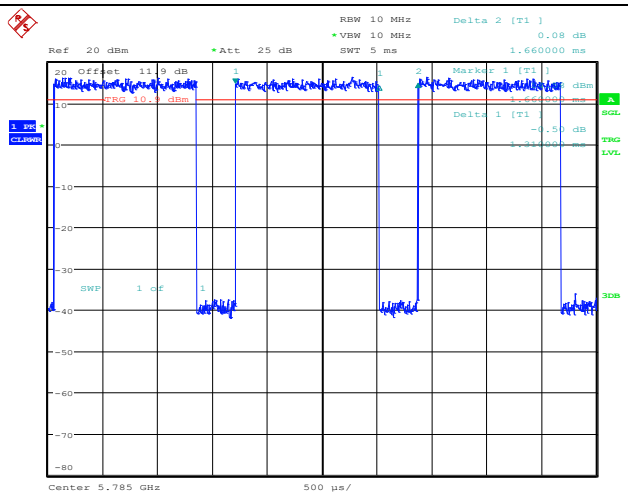

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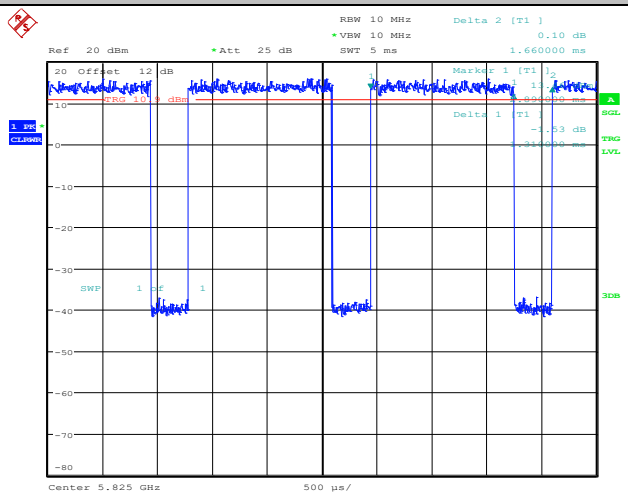

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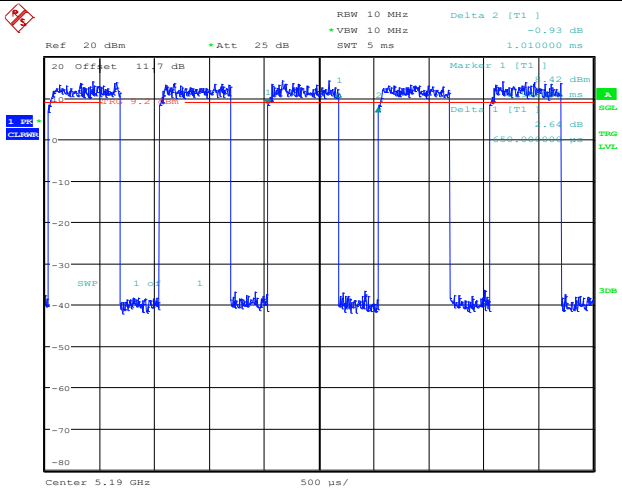

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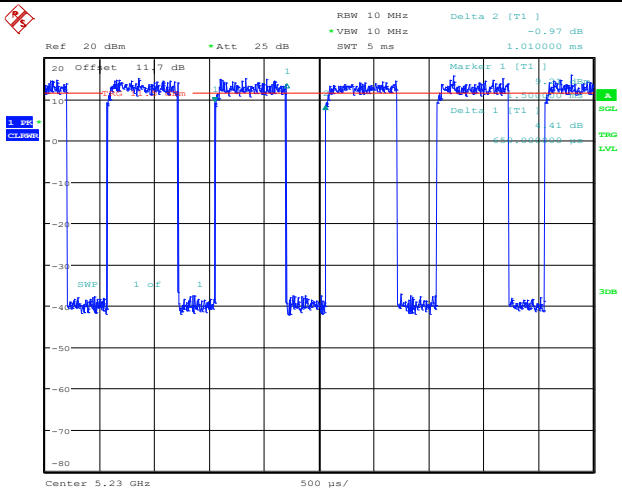

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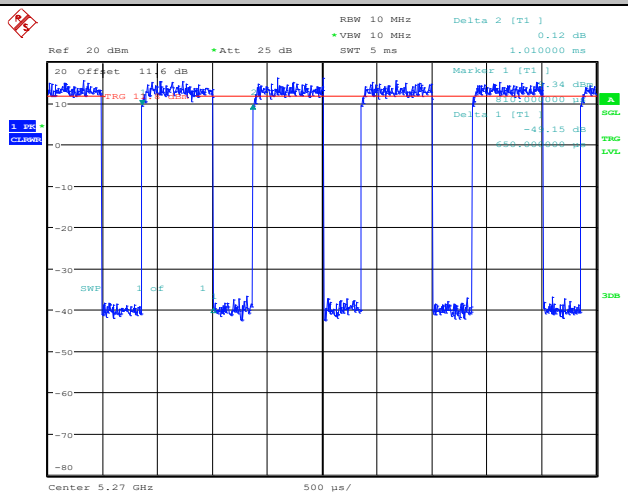

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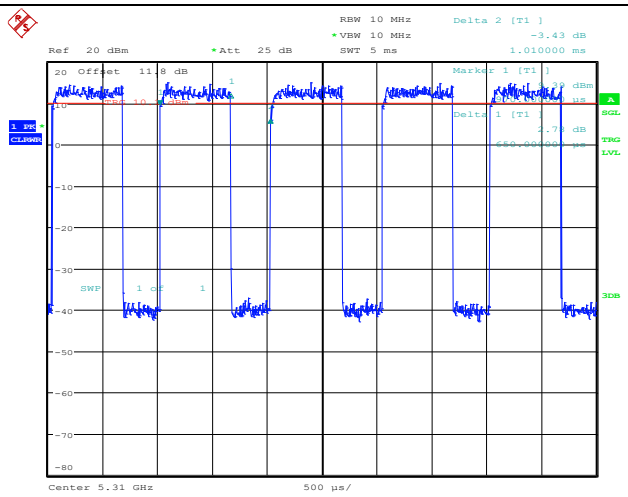

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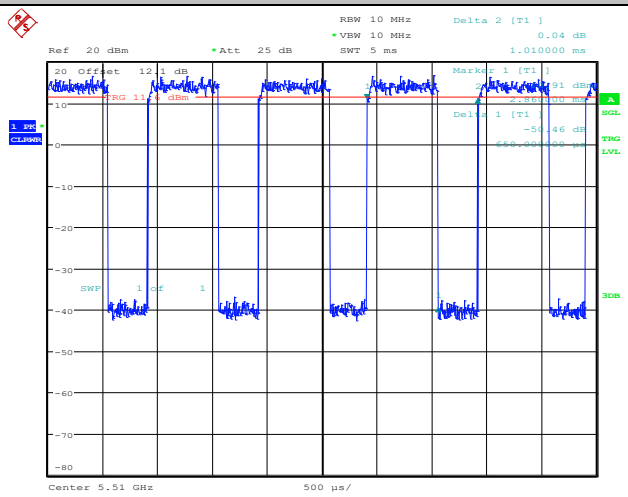

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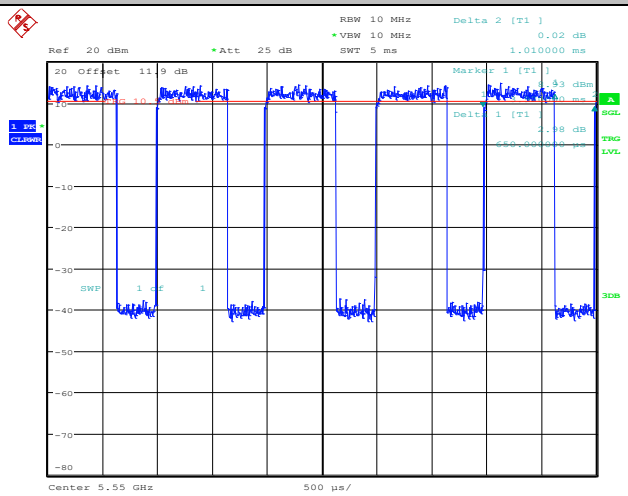

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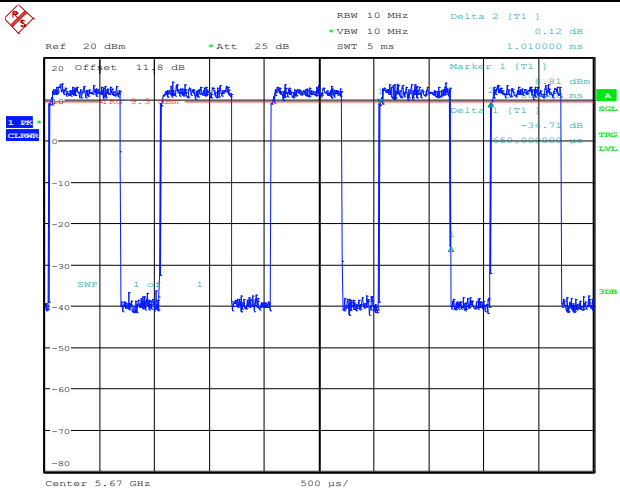

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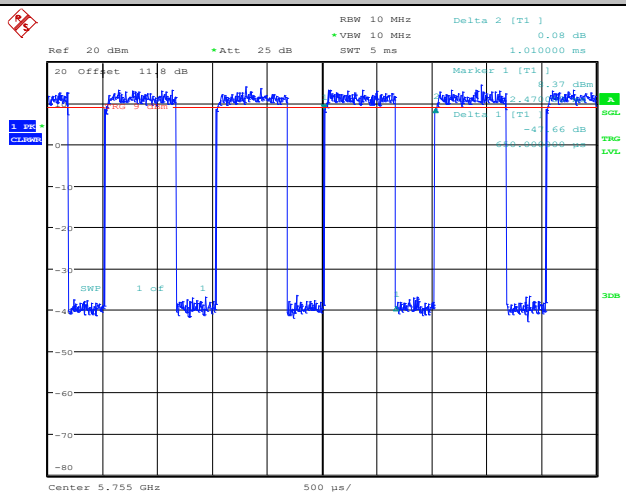

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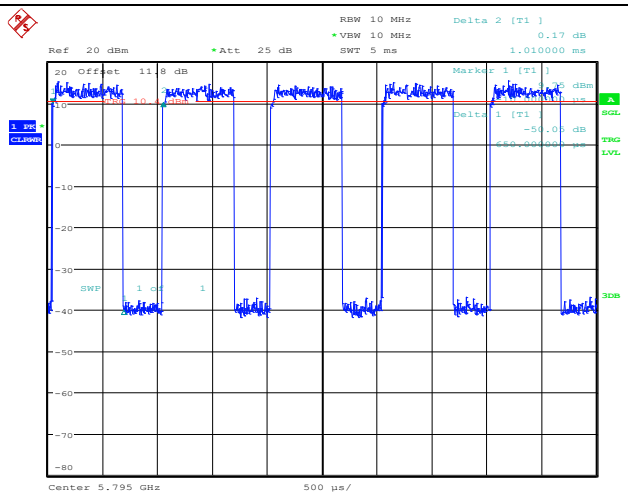

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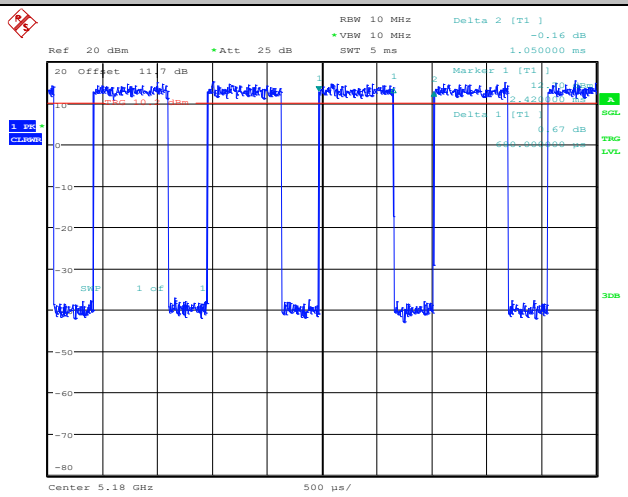

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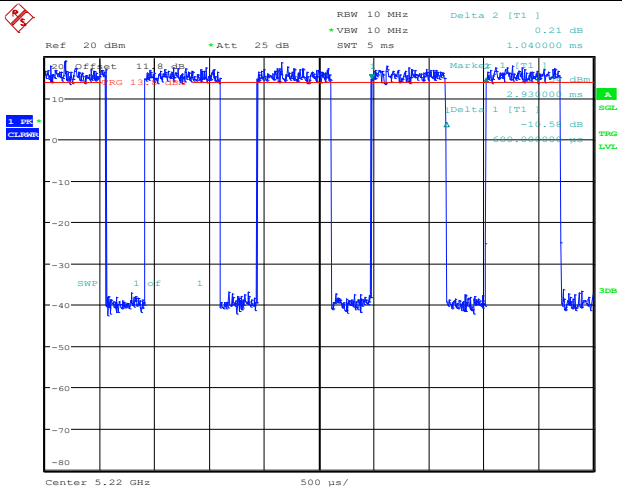
11AC20SISO_Ant1_5220



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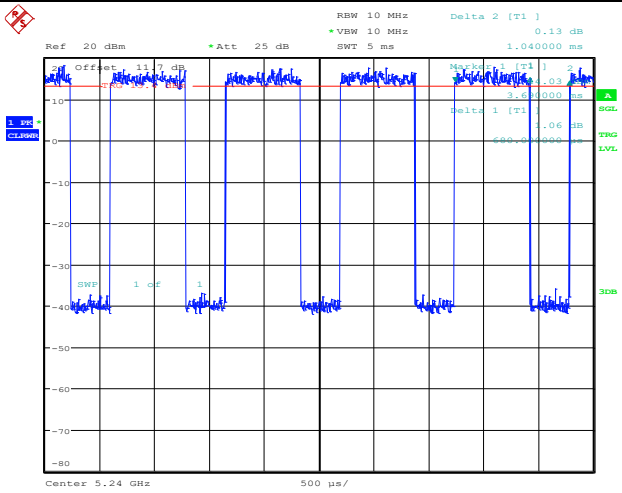

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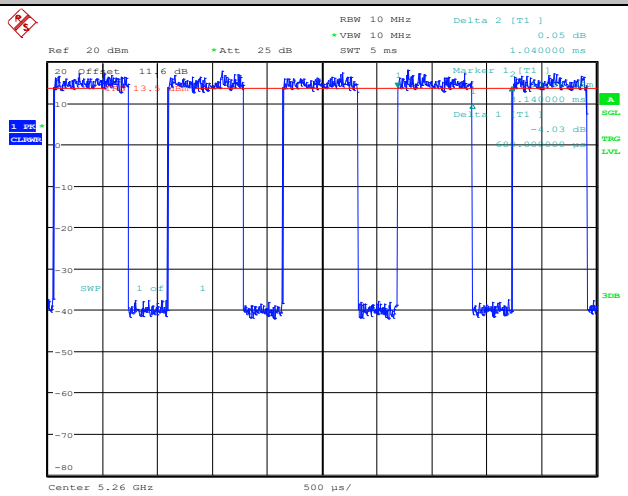
11AC20SISO_Ant1_5260



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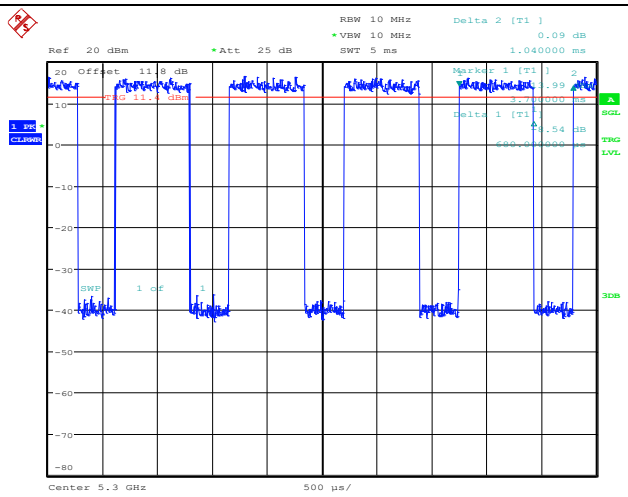
11AC20SISO_Ant1_5300



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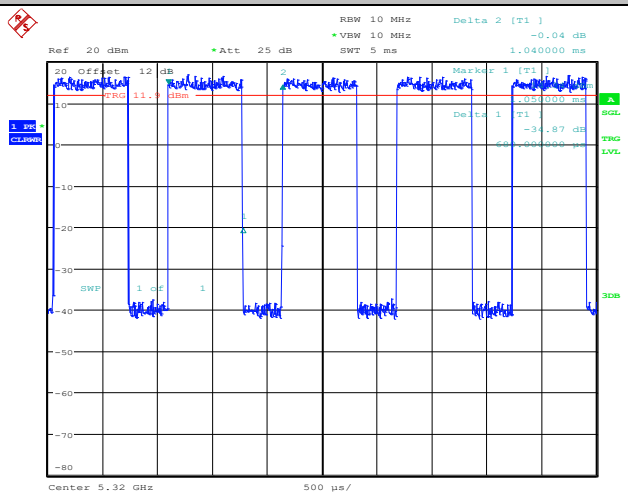
11AC20SISO_Ant1_5320



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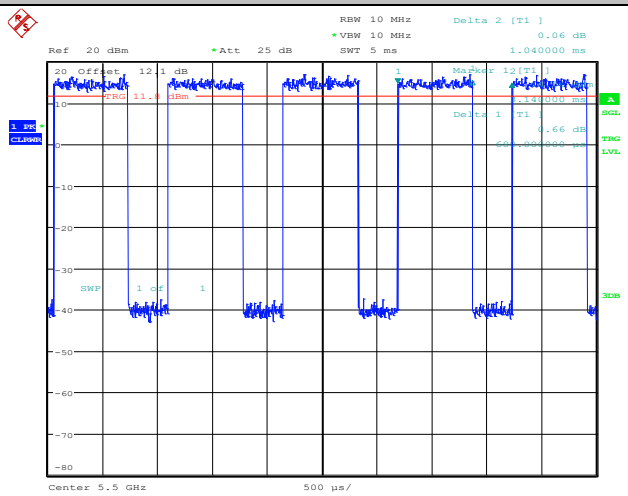
11AC20SISO_Ant1_5500



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