Appendix Test Data

Report No.:	18220WC40072104	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.10
Test Engineer:	Jokes Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	49%
Pressure:	101kPa		
Test module:	RTL8811		

Appendix A1: 26dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.240	5169.360	5190.600	---	---
11A	Ant1	5200	20.680	5189.800	5210.480	---	---
11A	Ant1	5240	21.320	5229.240	5250.560	---	---
11A	Ant1	5745	21.080	5734.520	5755.600	---	---
11A	Ant1	5785	20.320	5774.840	5795.160	---	---
11A	Ant1	5825	20.080	5814.920	5835.000	---	---
11N20SISO	Ant1	5180	21.200	5169.280	5190.480	---	---
11N20SISO	Ant1	5200	21.280	5189.600	5210.880	---	---
11N20SISO	Ant1	5240	20.800	5229.600	5250.400	---	---
11N20SISO	Ant1	5745	21.040	5734.560	5755.600	---	---
11N20SISO	Ant1	5785	21.280	5774.240	5795.520	---	---
11N20SISO	Ant1	5825	21.280	5814.480	5835.760	---	---
11N40SISO	Ant1	5190	41.040	5169.520	5210.560	---	---
11N40SISO	Ant1	5230	41.200	5209.600	5250.800	---	---
11N40SISO	Ant1	5755	41.520	5734.520	5776.040	---	---
11N40SISO	Ant1	5795	41.840	5774.440	5816.280	---	---
11AC20SISO	Ant1	5180	20.880	5169.600	5190.480	---	---
11AC20SISO	Ant1	5200	22.080	5189.040	5211.120	---	---
11AC20SISO	Ant1	5240	20.600	5229.680	5250.280	---	---
11AC20SISO	Ant1	5745	21.080	5734.600	5755.680	---	---
11AC20SISO	Ant1	5785	21.160	5774.400	5795.560	---	---
11AC20SISO	Ant1	5825	20.840	5814.400	5835.240	---	---
11AC40SISO	Ant1	5190	40.960	5169.600	5210.560	---	---
11AC40SISO	Ant1	5230	40.800	5209.920	5250.720	---	---
11AC40SISO	Ant1	5755	40.720	5734.520	5775.240	---	---
11AC40SISO	Ant1	5795	41.040	5774.360	5815.400	---	---
11AC80SISO	Ant1	5210	81.440	5169.520	5250.960	---	---
11AC80SISO	Ant1	5775	81.120	5734.680	5815.800	---	---

Test Graphs

11A-Ant1-5180

11A-Ant1-5200

11A-Ant1-5240

11A-Ant1-5745

11A-Ant1-5785

11A-Ant1-5825

11N20SISO-Ant1-5180

11N20SISO-Ant1-5200

11N20SISO-Ant1-5240

11N20SISO-Ant1-5745

11N20SISO-Ant1-5785

11N20SISO-Ant1-5825

11N40SISO-Ant1-5190

11N40SISO-Ant1-5230

11N40SISO-Ant1-5755

11N40SISO-Ant1-5795

11AC20SISO-Ant1-5180

11AC20SISO-Ant1-5200

11AC20SISO-Ant1-5240

11AC20SISO-Ant1-5745

11AC20SISO-Ant1-5785

11AC20SISO-Ant1-5825

11AC40SISO-Ant1-5190

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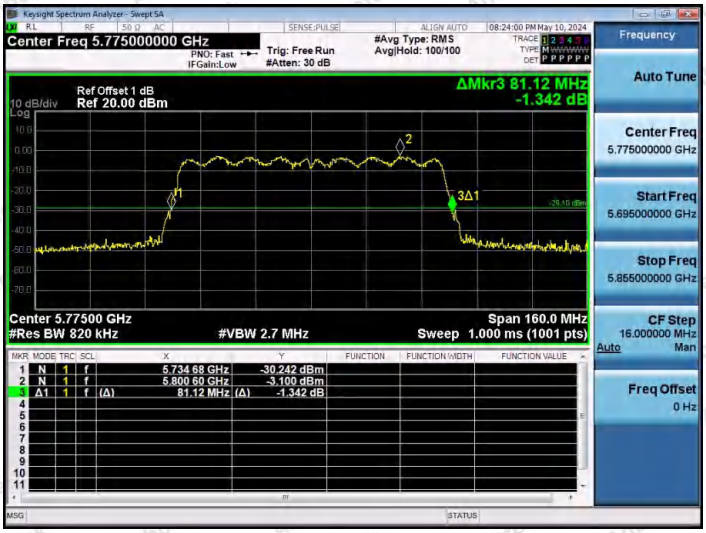
11AC40SISO-Ant1-5755

11AC40SISO-Ant1-5795

11AC80SISO-Ant1-5210



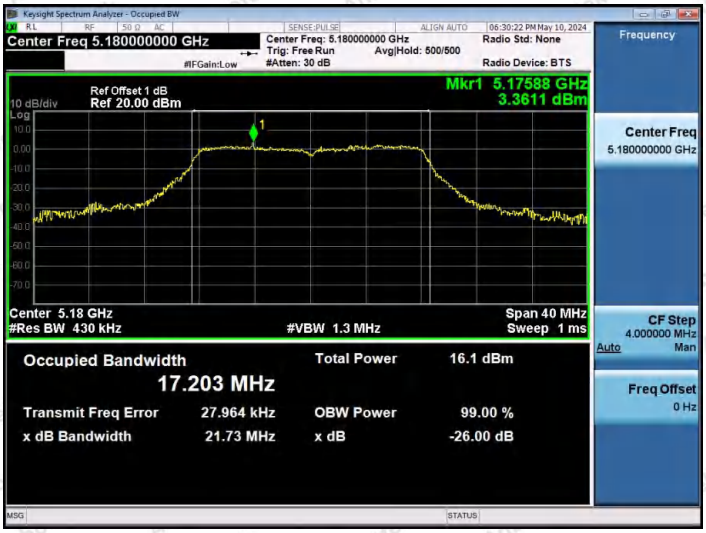
11AC80SISO-Ant1-5775

Appendix A2: 99% Occupied Bandwidth

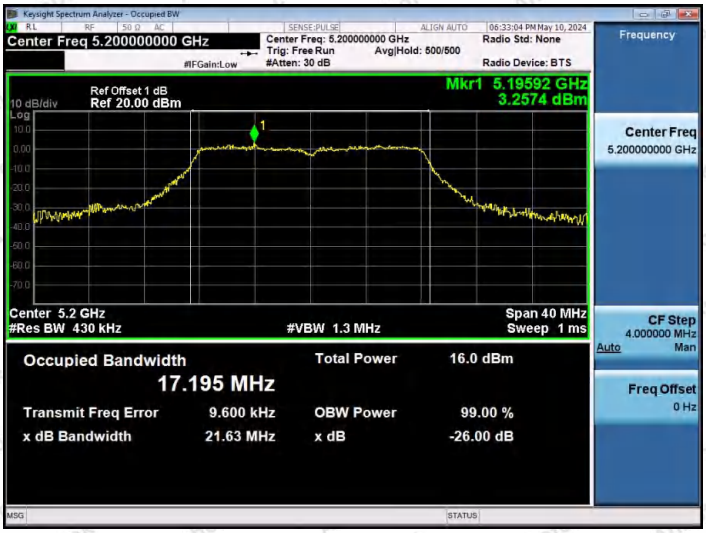
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.203	5171.4265	5188.6295	---	---
11A	Ant1	5200	17.195	5191.4121	5208.6071	---	---
11A	Ant1	5240	17.197	5231.4334	5248.6304	---	---
11A	Ant1	5745	17.169	5736.4381	5753.6071	---	---
11A	Ant1	5785	17.003	5776.4912	5793.4942	---	---
11A	Ant1	5825	17.008	5816.4865	5833.4945	---	---
11N20SISO	Ant1	5180	18.161	5170.9692	5189.1302	---	---
11N20SISO	Ant1	5200	18.094	5191.0053	5209.0993	---	---
11N20SISO	Ant1	5240	18.108	5230.9406	5249.0486	---	---
11N20SISO	Ant1	5745	18.047	5736.0465	5754.0935	---	---
11N20SISO	Ant1	5785	18.093	5775.9730	5794.0660	---	---
11N20SISO	Ant1	5825	18.102	5815.9654	5834.0674	---	---
11N40SISO	Ant1	5190	36.591	5171.7914	5208.3824	---	---
11N40SISO	Ant1	5230	36.539	5211.8407	5248.3797	---	---
11N40SISO	Ant1	5755	36.469	5736.8479	5773.3169	---	---
11N40SISO	Ant1	5795	36.492	5776.7905	5813.2825	---	---
11AC20SISO	Ant1	5180	18.033	5171.0191	5189.0521	---	---
11AC20SISO	Ant1	5200	18.059	5190.9986	5209.0576	---	---
11AC20SISO	Ant1	5240	18.053	5230.9725	5249.0255	---	---
11AC20SISO	Ant1	5745	17.990	5736.0466	5754.0366	---	---
11AC20SISO	Ant1	5785	17.981	5776.0286	5794.0096	---	---
11AC20SISO	Ant1	5825	18.003	5816.0097	5834.0127	---	---
11AC40SISO	Ant1	5190	36.398	5171.8734	5208.2714	---	---
11AC40SISO	Ant1	5230	36.388	5211.8786	5248.2666	---	---
11AC40SISO	Ant1	5755	36.378	5736.8384	5773.2164	---	---
11AC40SISO	Ant1	5795	36.405	5776.8186	5813.2236	---	---
11AC80SISO	Ant1	5210	75.609	5172.4301	5248.0391	---	---
11AC80SISO	Ant1	5775	75.466	5737.3745	5812.8405	---	---

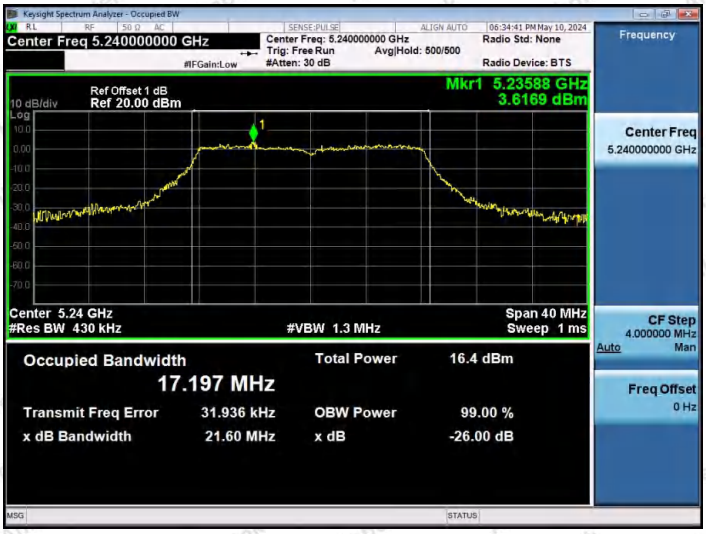
Test Graphs



11A-Ant1-5180

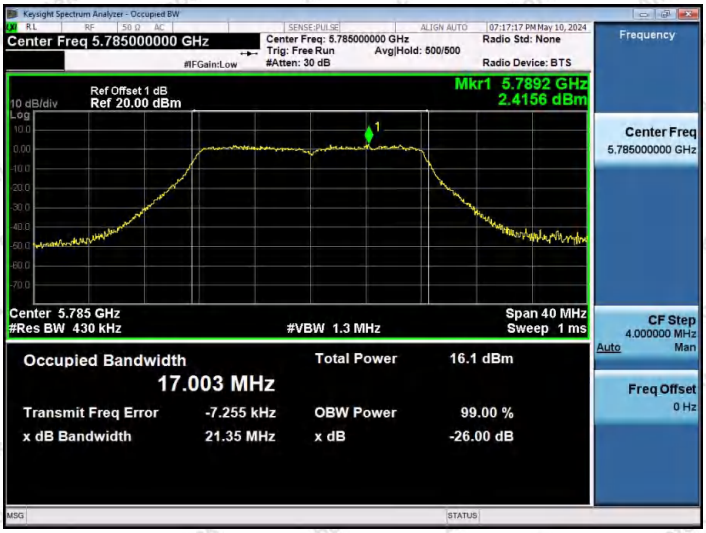


11A-Ant1-5200



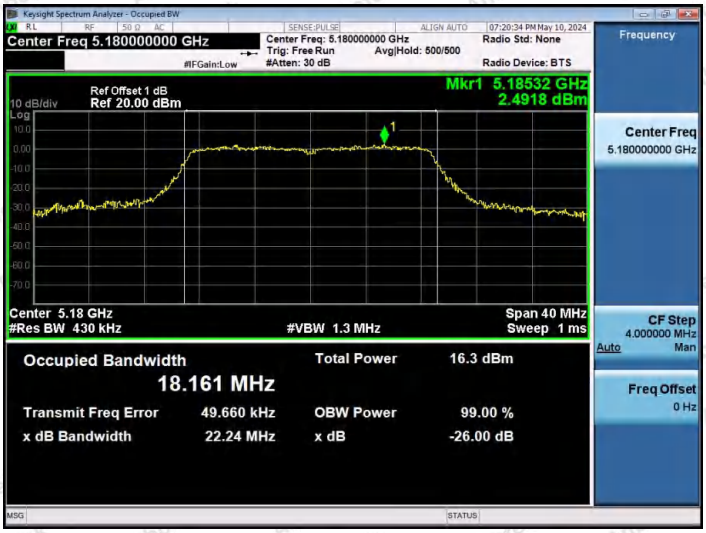
11A-Ant1-5240

11A-Ant1-5745



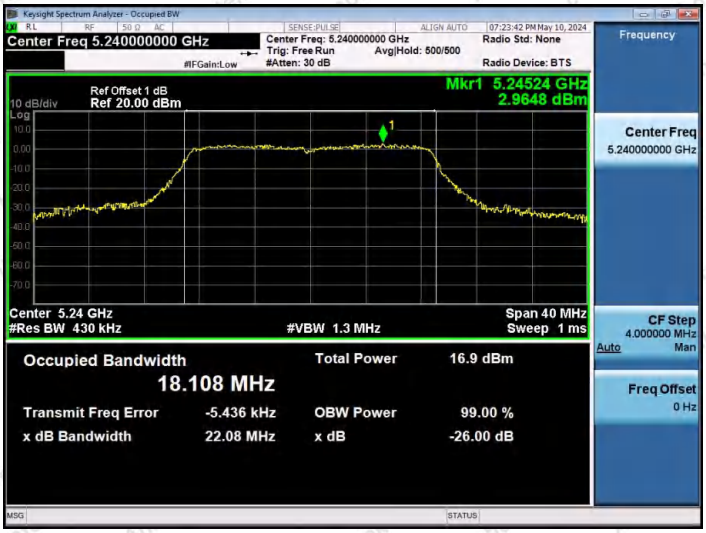
11A-Ant1-5785

11A-Ant1-5825



11N20SISO-Ant1-5180

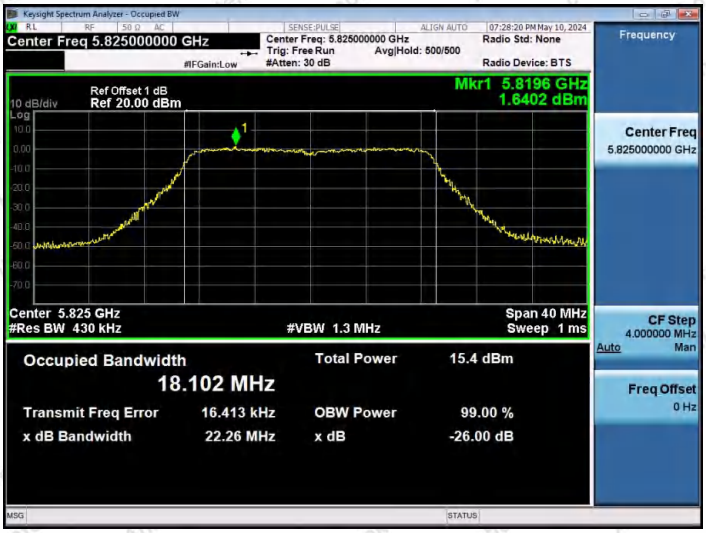
11N20SISO-Ant1-5200



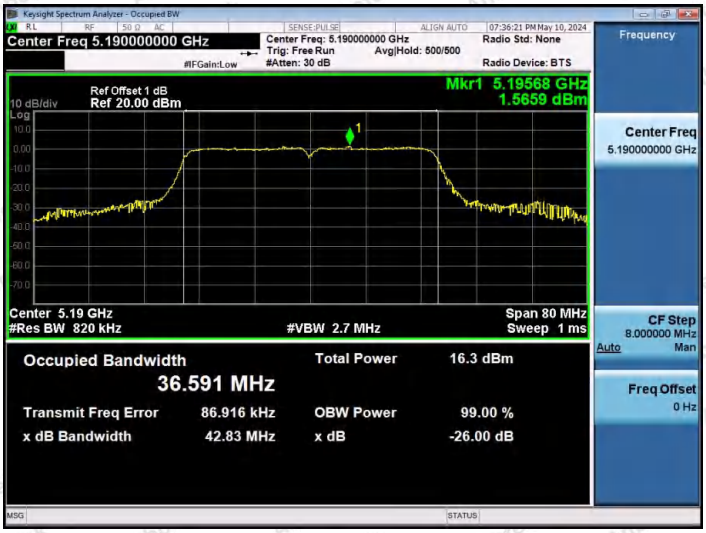
11N20SISO-Ant1-5240

11N20SISO-Ant1-5745

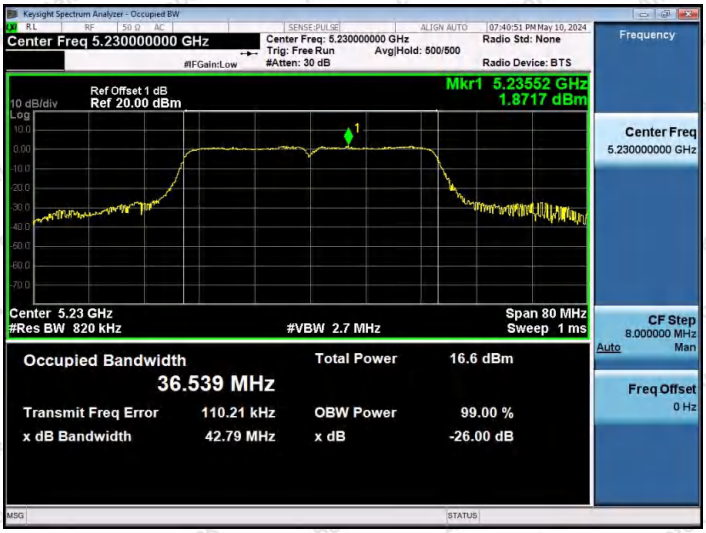
11N20SISO-Ant1-5785



11N20SISO-Ant1-5825

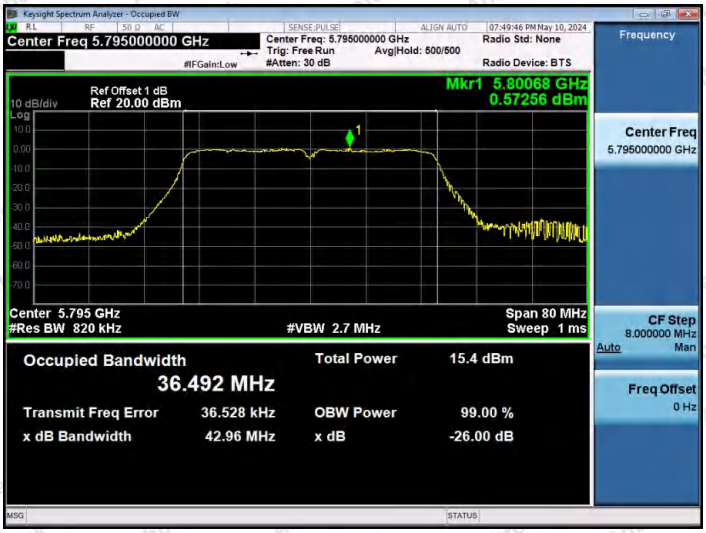


11N40SISO-Ant1-5190

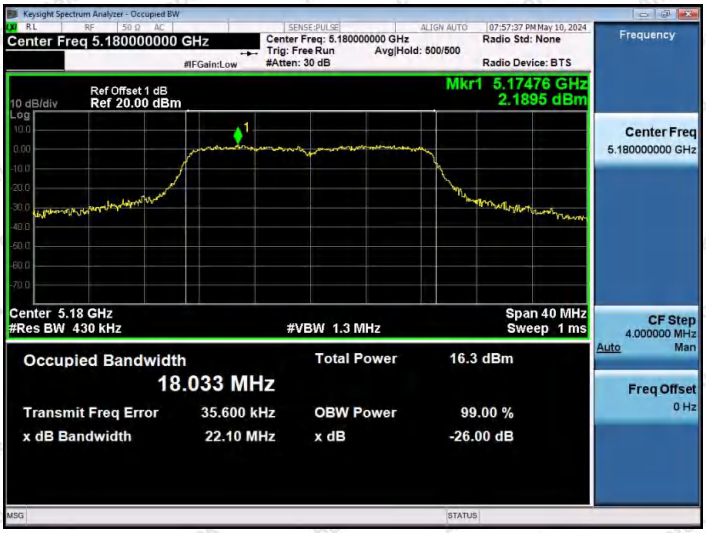


11N40SISO-Ant1-5230

11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



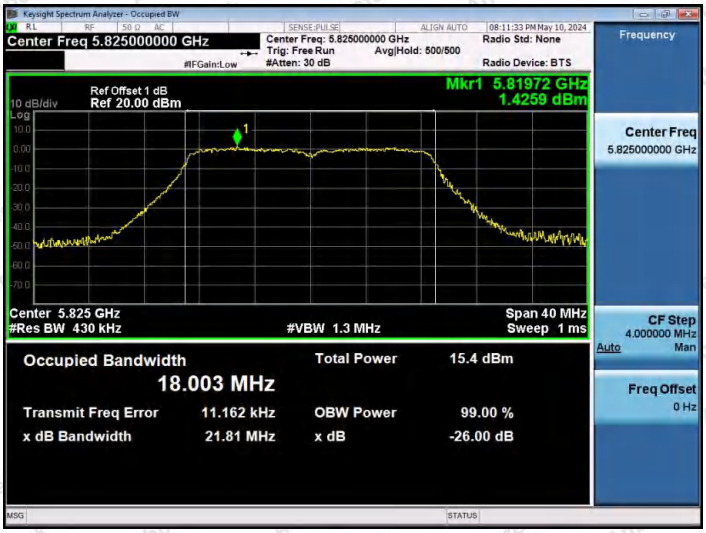
11AC20SISO-Ant1-5180

11AC20SISO-Ant1-5200

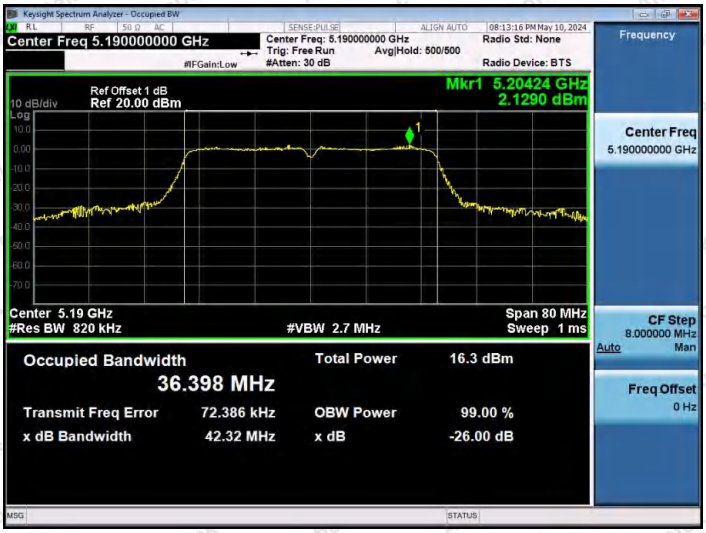
11AC20SISO-Ant1-5240

11AC20SISO-Ant1-5745

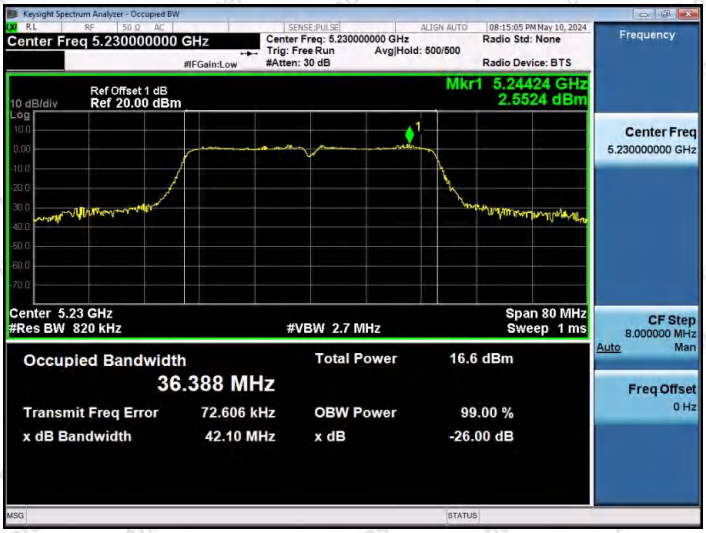
11AC20SISO-Ant1-5785



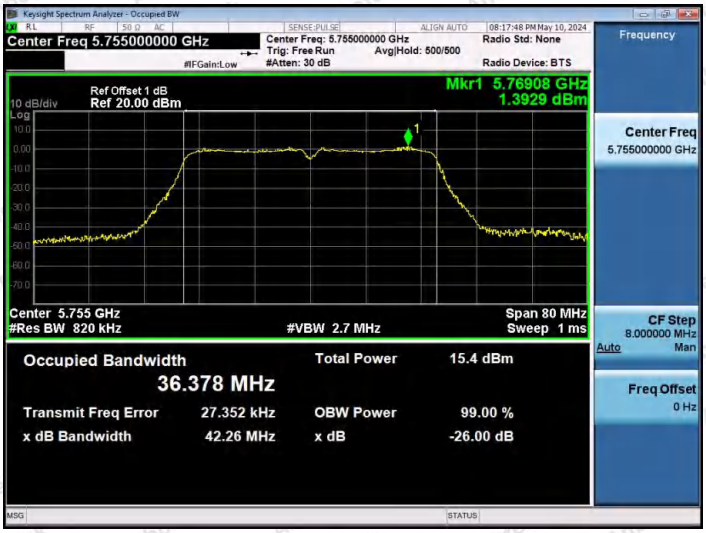
11AC20SISO-Ant1-5825



11AC40SISO-Ant1-5190



11AC40SISO-Ant1-5230



11AC40SISO-Ant1-5755

11AC40SISO-Ant1-5795

11AC80SISO-Ant1-5210

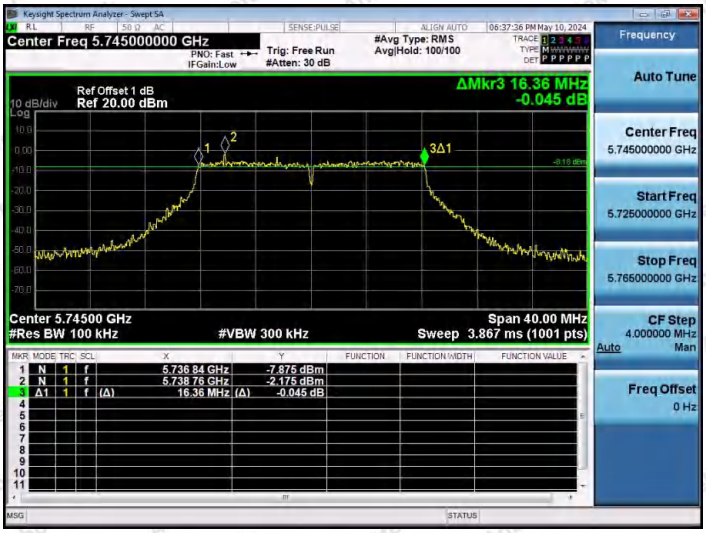
11AC80SISO-Ant1-5775

Appendix A3: Minimum 6dB Bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.840	5753.200	0.5	PASS
11A	Ant1	5785	16.320	5776.840	5793.160	0.5	PASS
11A	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.040	5736.480	5753.520	0.5	PASS
11N20SISO	Ant1	5785	17.000	5776.480	5793.480	0.5	PASS
11N20SISO	Ant1	5825	17.080	5816.440	5833.520	0.5	PASS
11N40SISO	Ant1	5755	35.360	5737.240	5772.600	0.5	PASS
11N40SISO	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	16.920	5736.600	5753.520	0.5	PASS
11AC20SISO	Ant1	5785	17.520	5776.240	5793.760	0.5	PASS
11AC20SISO	Ant1	5825	17.280	5816.200	5833.480	0.5	PASS
11AC40SISO	Ant1	5755	35.360	5737.400	5772.760	0.5	PASS
11AC40SISO	Ant1	5795	35.360	5777.400	5812.760	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4



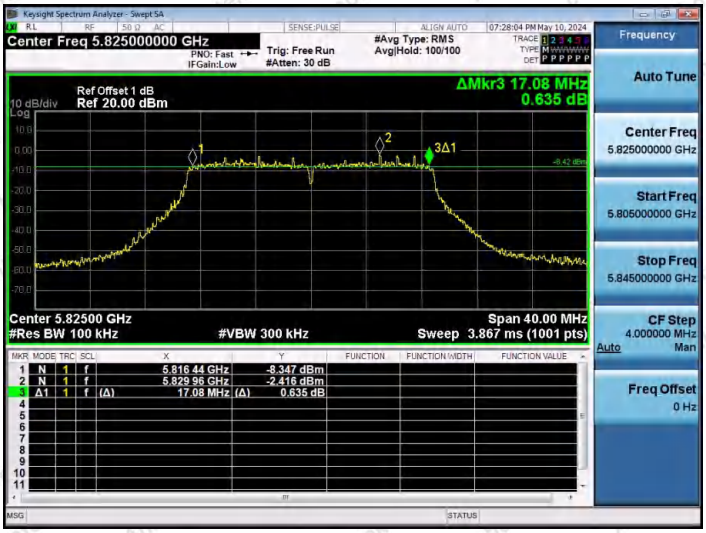
11A-Ant1-5745-PASS

11A-Ant1-5785-PASS

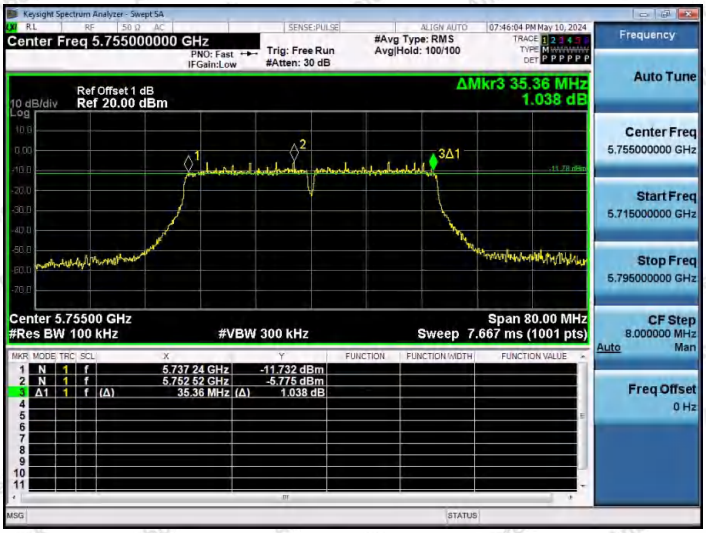
11A-Ant1-5825-PASS

11N20SISO-Ant1-5745-PASS

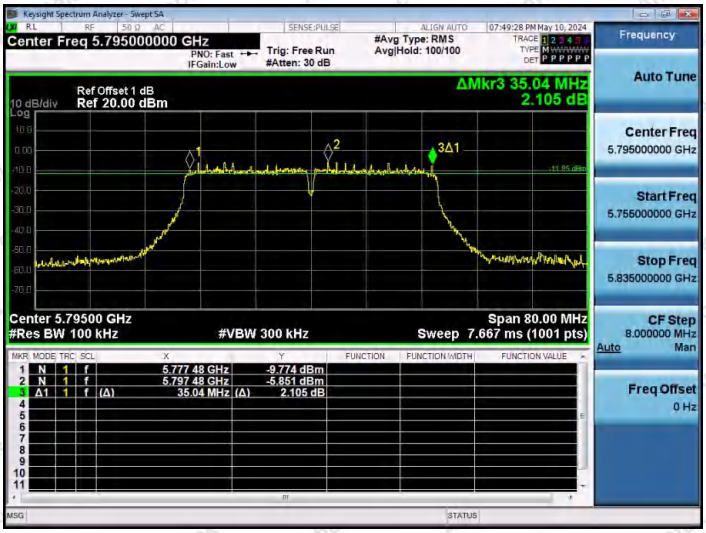
11N20SISO-Ant1-5785-PASS



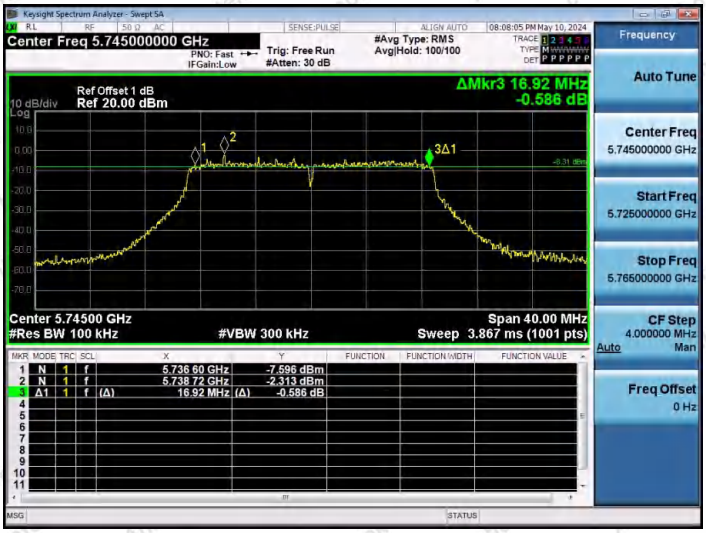
11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



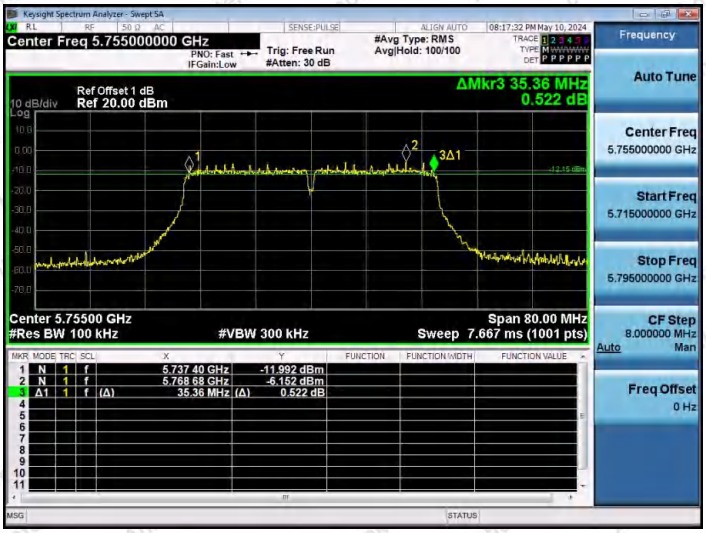
11N40SISO-Ant1-5795-PASS



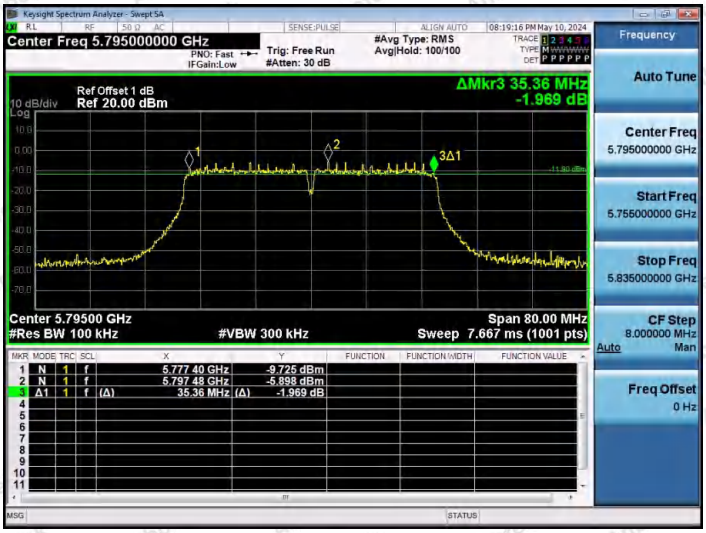
11AC20SISO-Ant1-5745-PASS

11AC20SISO-Ant1-5785-PASS

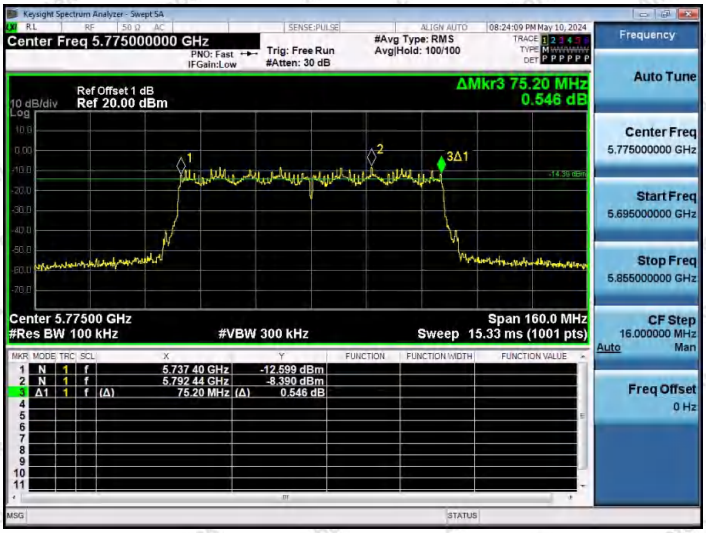
11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



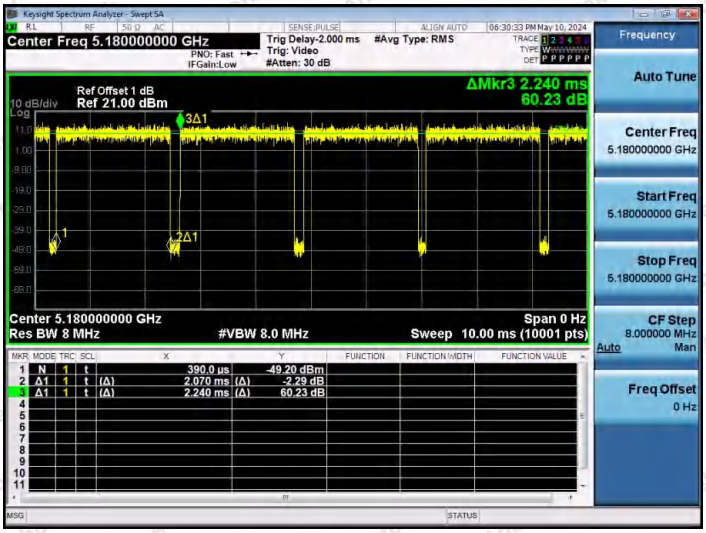
11AC80SISO-Ant1-5775-PASS

Appendix B: Duty Cycle

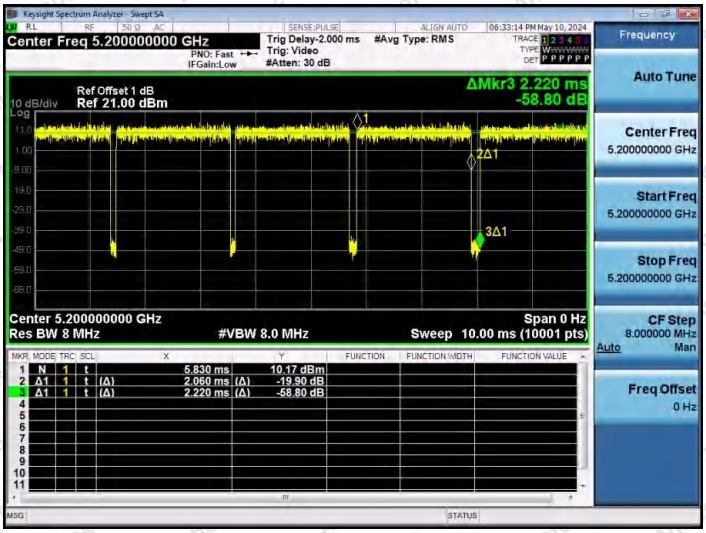
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [%]	1/T
11A	Ant1	5180	2.07	2.24	92.41	0.34	0.48
11A	Ant1	5200	2.06	2.22	92.79	0.32	0.49
11A	Ant1	5240	2.07	2.17	95.39	0.20	0.48
11A	Ant1	5745	2.07	2.23	92.83	0.32	0.48
11A	Ant1	5785	2.07	2.16	95.83	0.18	0.48
11A	Ant1	5825	2.07	2.21	93.67	0.28	0.48
11N20SISO	Ant1	5180	1.92	2.06	93.20	0.31	0.52
11N20SISO	Ant1	5200	1.92	2.05	93.66	0.28	0.52
11N20SISO	Ant1	5240	1.92	2.08	92.31	0.35	0.52
11N20SISO	Ant1	5745	1.92	2.06	93.20	0.31	0.52
11N20SISO	Ant1	5785	1.92	2.06	93.20	0.31	0.52
11N20SISO	Ant1	5825	1.92	2.03	94.58	0.24	0.52
11N40SISO	Ant1	5190	0.94	1.08	87.04	0.60	1.06
11N40SISO	Ant1	5230	0.94	1.09	86.24	0.64	1.06
11N40SISO	Ant1	5755	0.94	1.10	85.45	0.68	1.06
11N40SISO	Ant1	5795	0.95	1.08	87.96	0.56	1.05
11AC20SISO	Ant1	5180	1.93	2.10	91.90	0.37	0.52
11AC20SISO	Ant1	5200	1.93	2.06	93.69	0.28	0.52
11AC20SISO	Ant1	5240	1.94	2.11	91.94	0.36	0.52
11AC20SISO	Ant1	5745	1.93	2.08	92.79	0.32	0.52
11AC20SISO	Ant1	5785	1.94	2.10	92.38	0.34	0.52
11AC20SISO	Ant1	5825	1.93	2.09	92.34	0.35	0.52
11AC40SISO	Ant1	5190	0.95	1.10	86.36	0.64	1.05
11AC40SISO	Ant1	5230	0.95	1.10	86.36	0.64	1.05
11AC40SISO	Ant1	5755	0.95	1.13	84.07	0.75	1.05
11AC40SISO	Ant1	5795	0.95	1.12	84.82	0.72	1.05
11AC80SISO	Ant1	5210	0.46	0.63	73.02	1.37	2.17
11AC80SISO	Ant1	5775	0.46	0.63	73.02	1.37	2.17

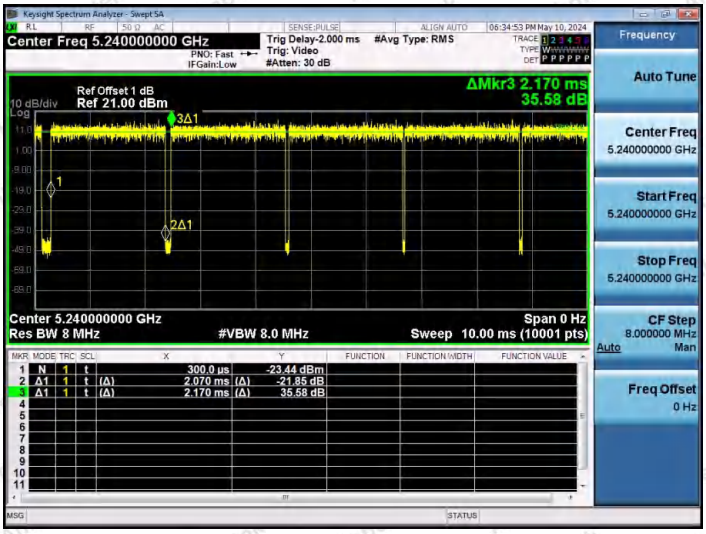
Test Graphs



NTNV-11A-Ant1-5180



NTNV-11A-Ant1-5200



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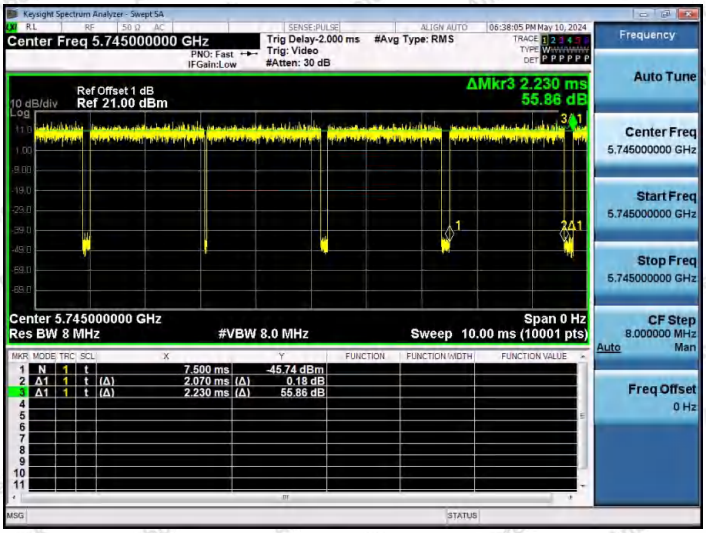

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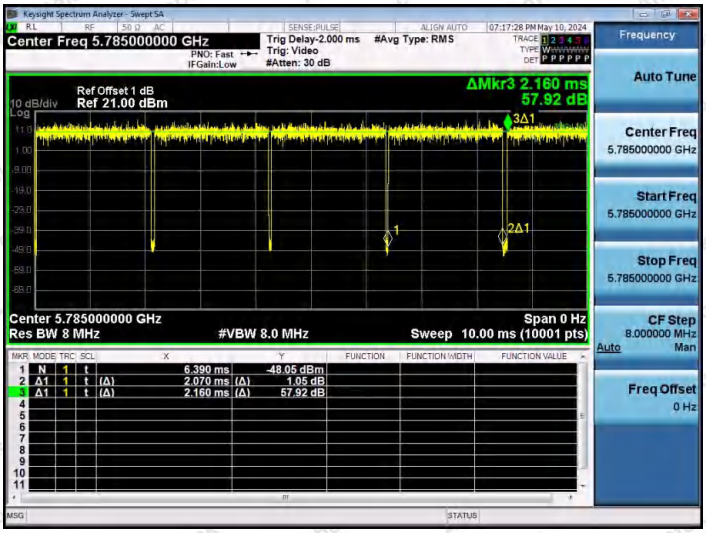

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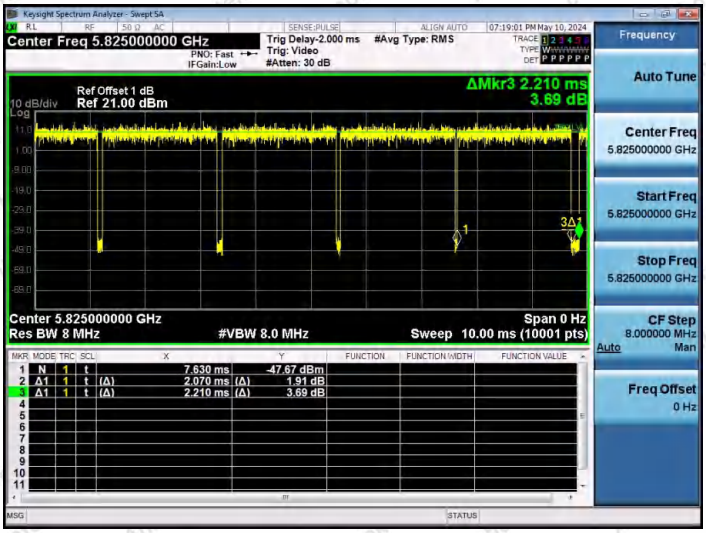

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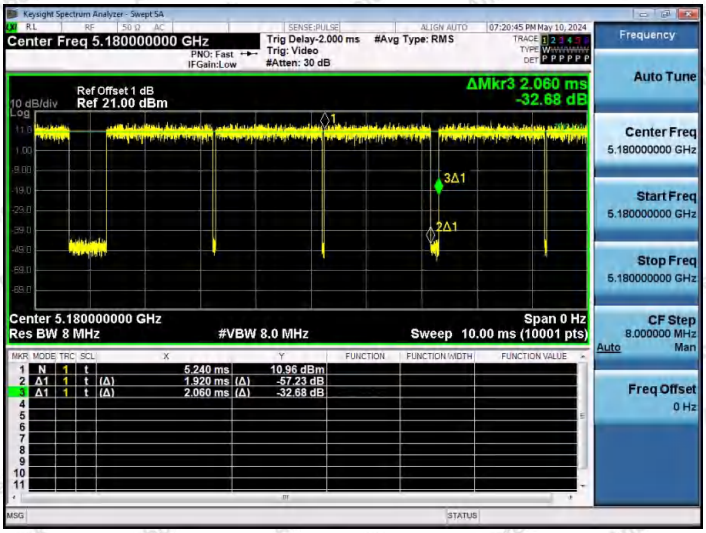

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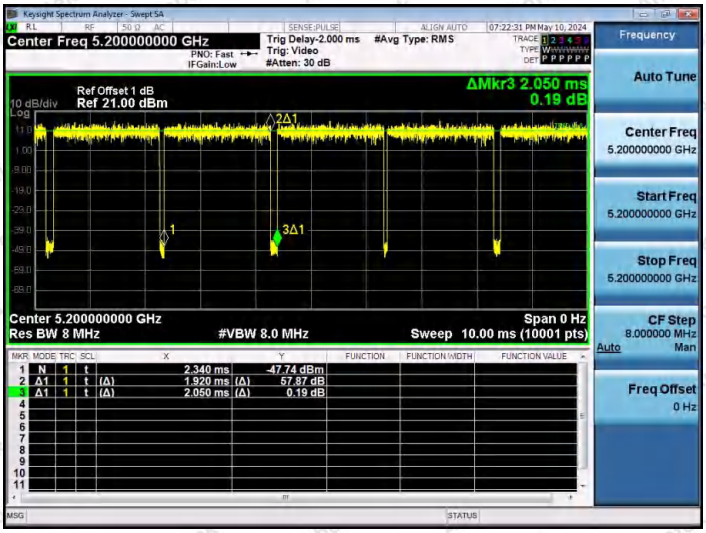

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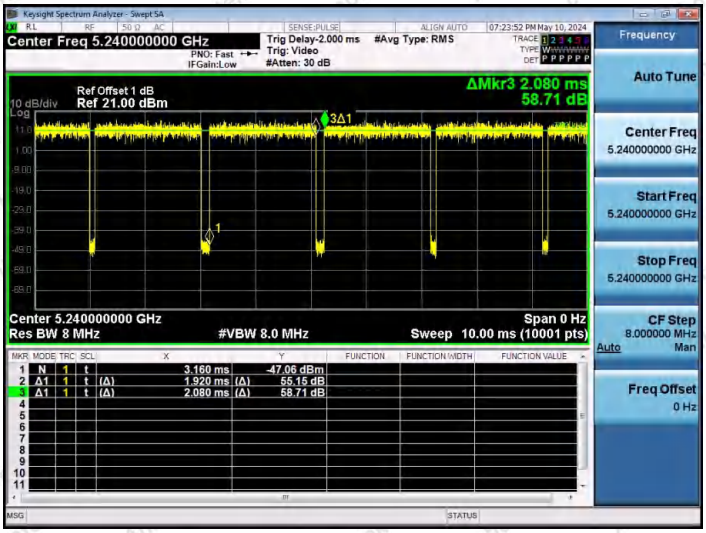

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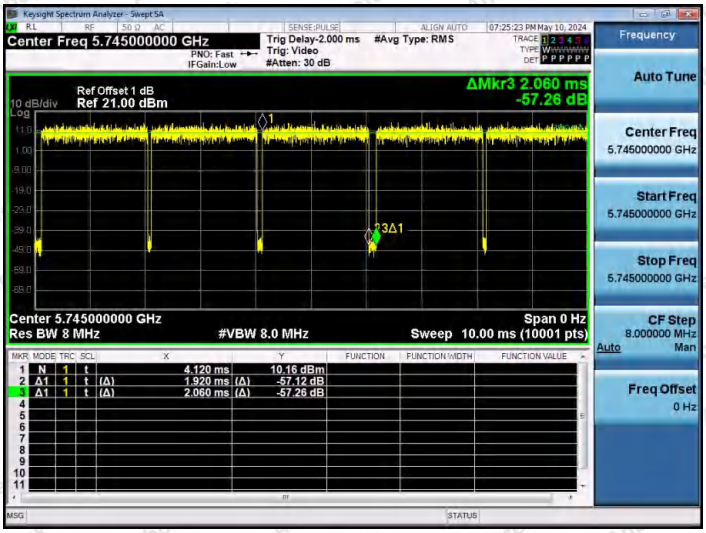

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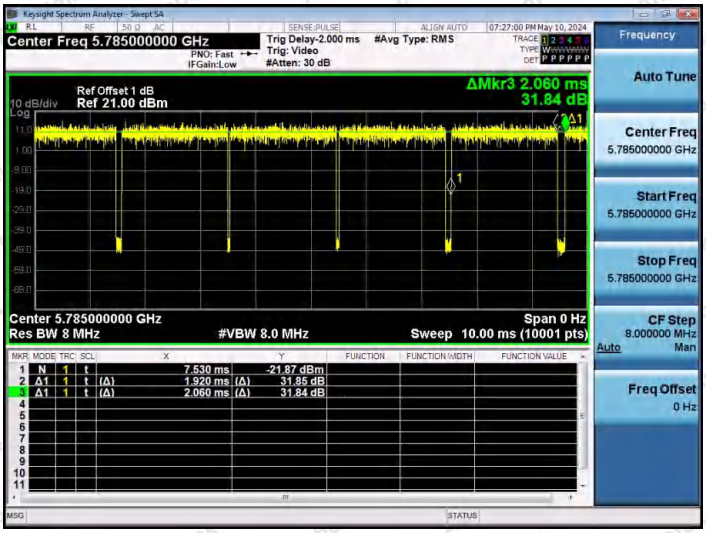

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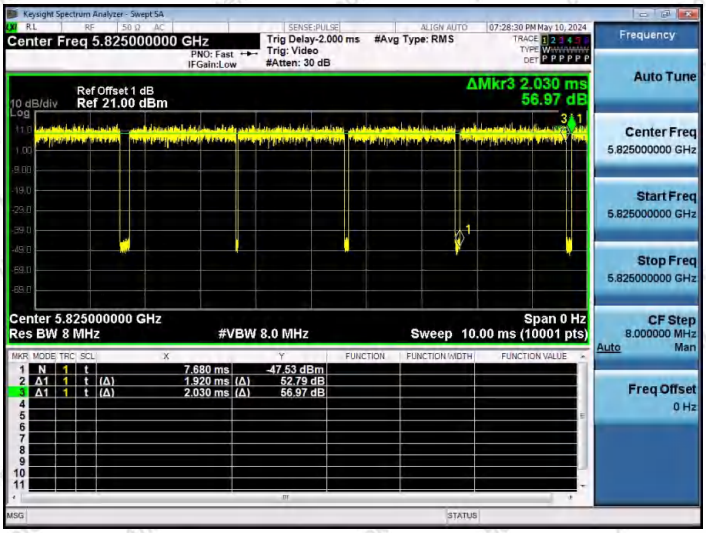

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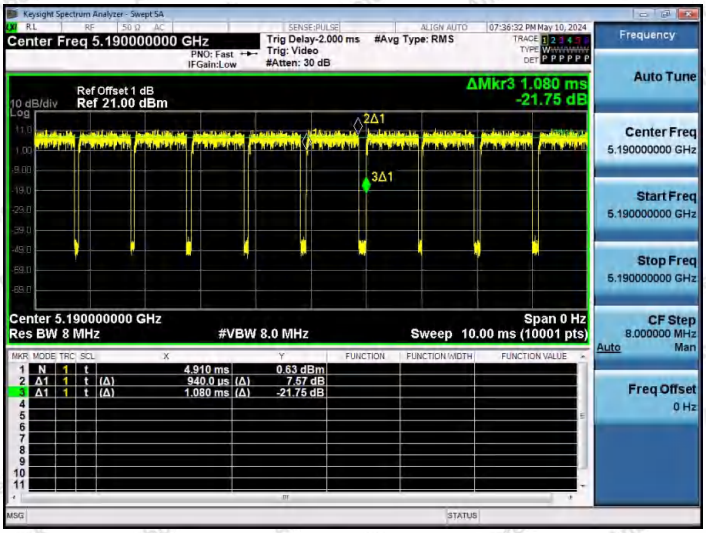

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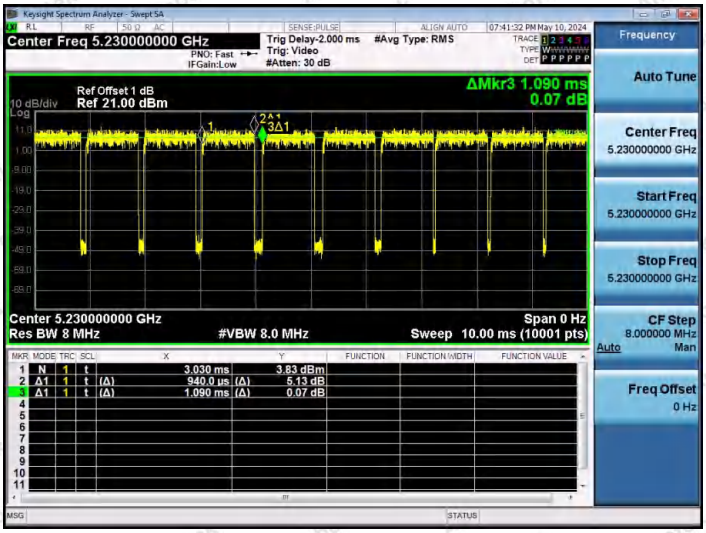

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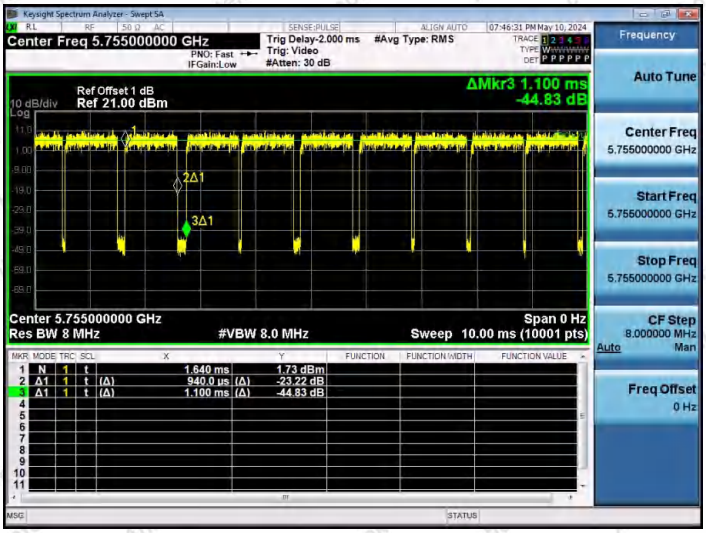

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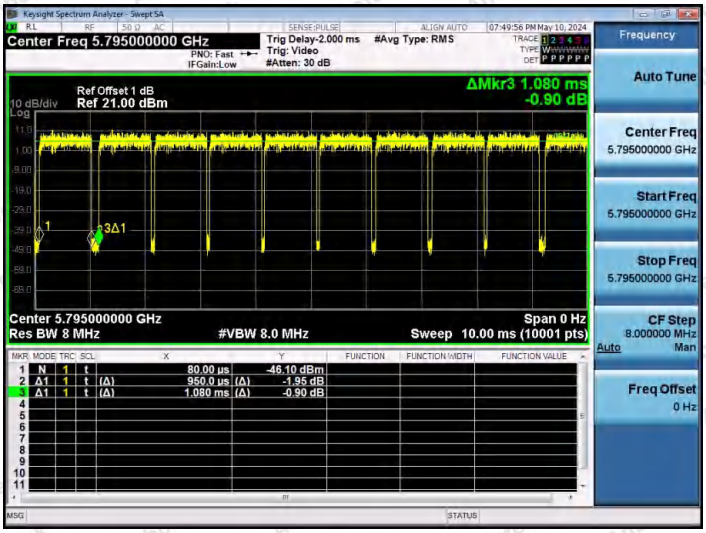

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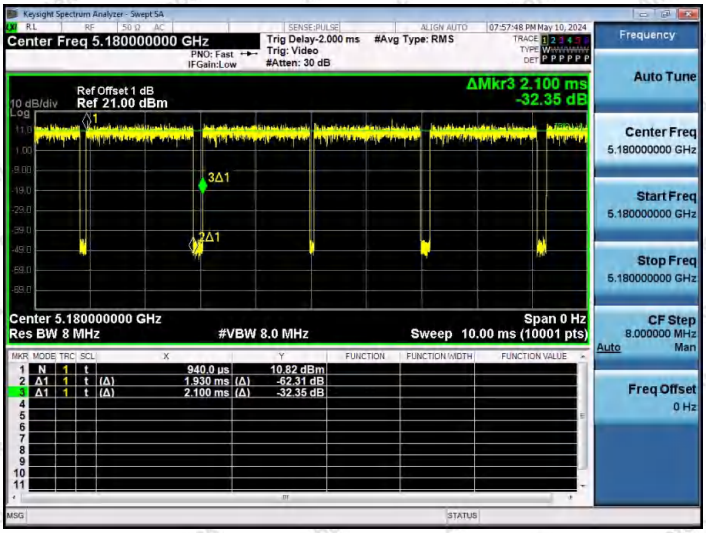

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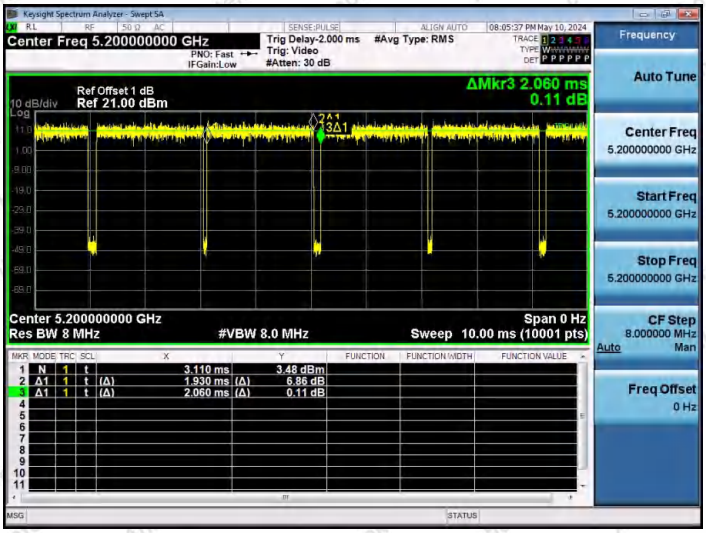

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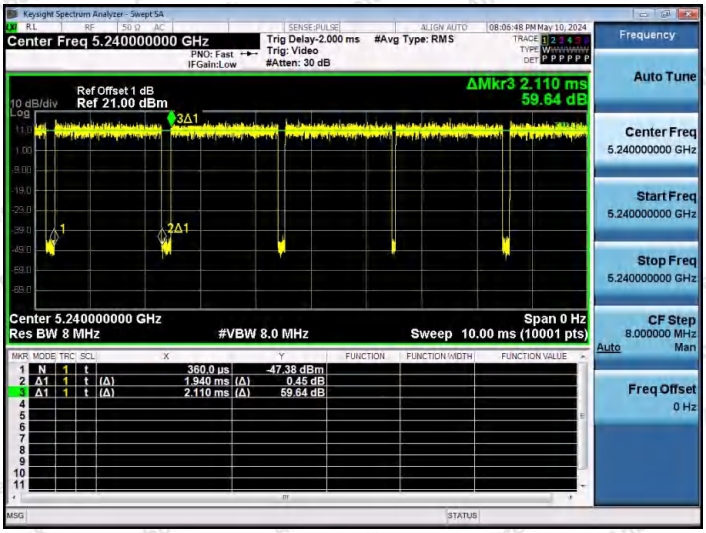

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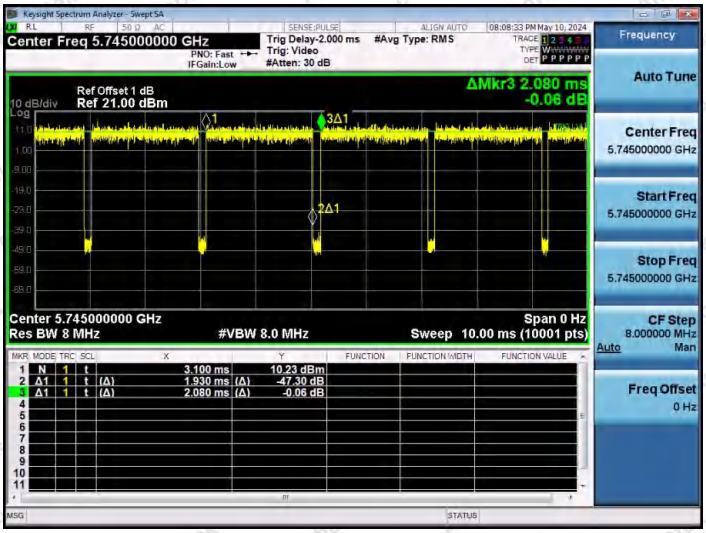

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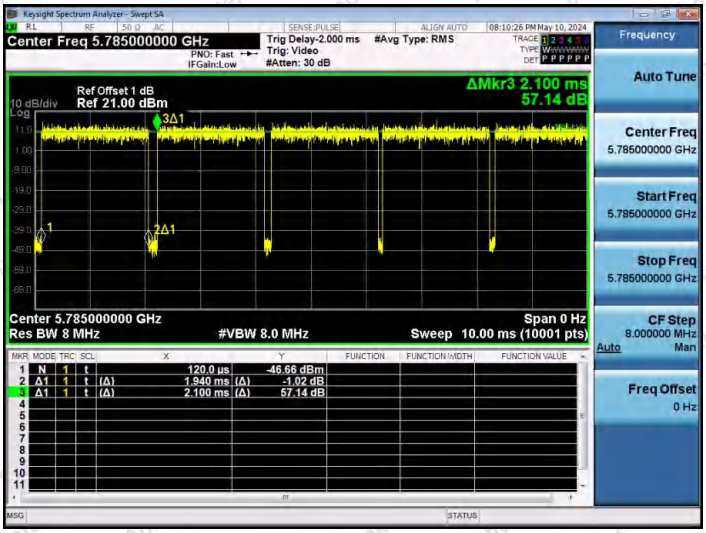

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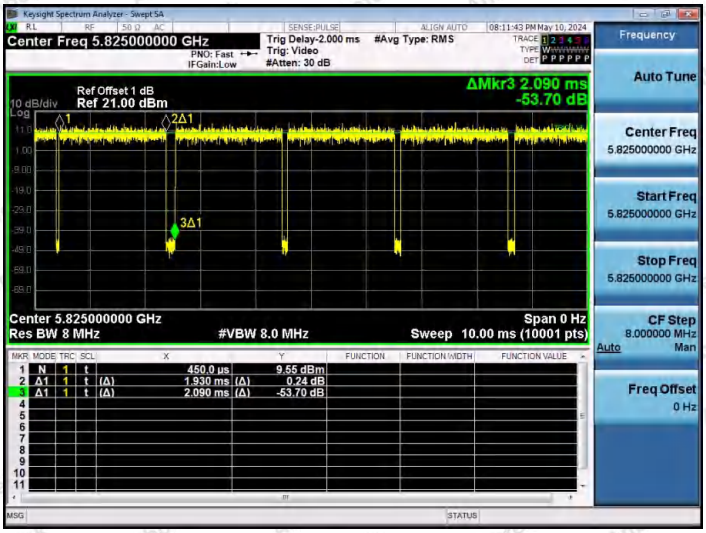

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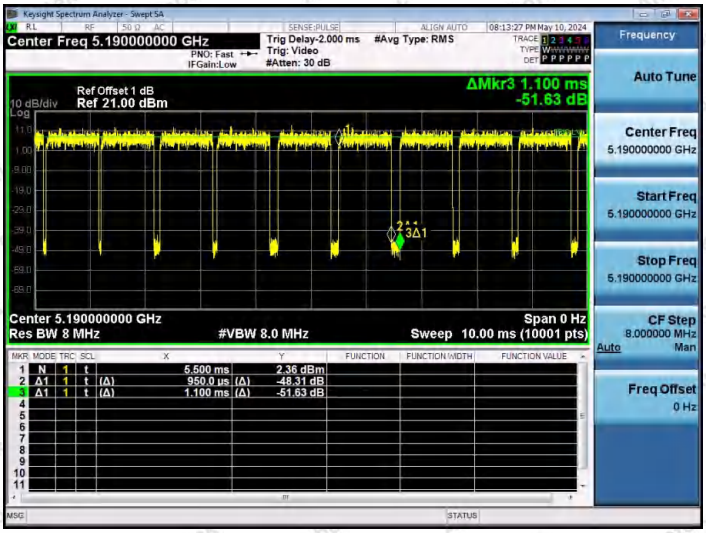
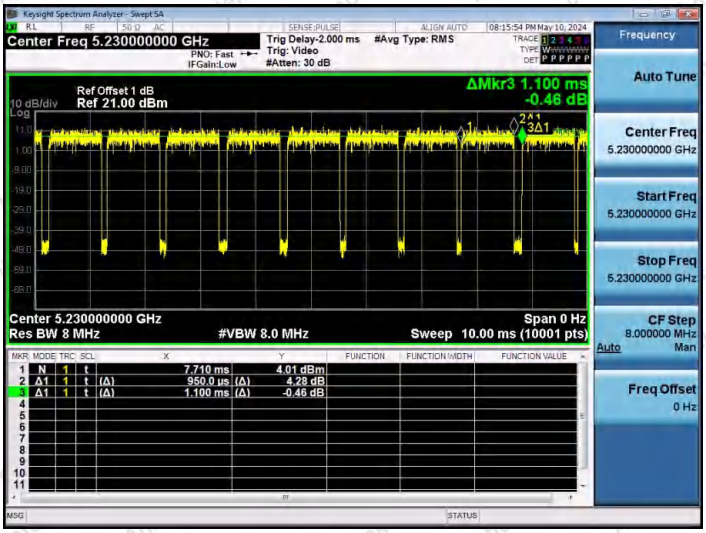


NTNV-11AC40SISO-Ant1-5190



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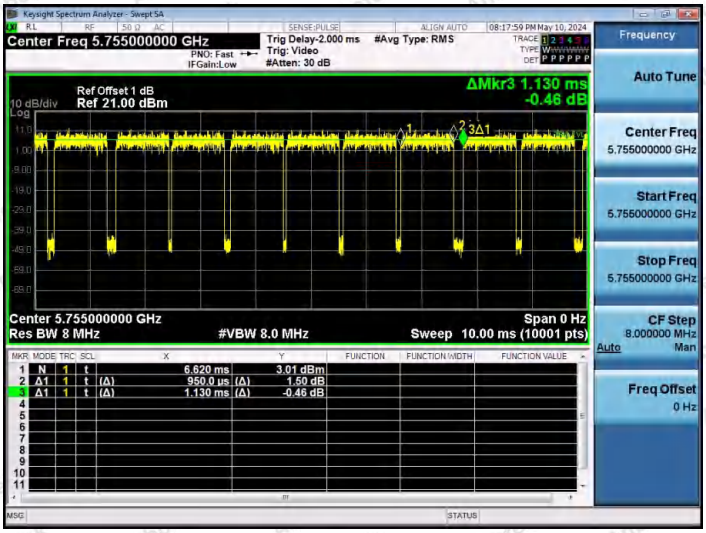

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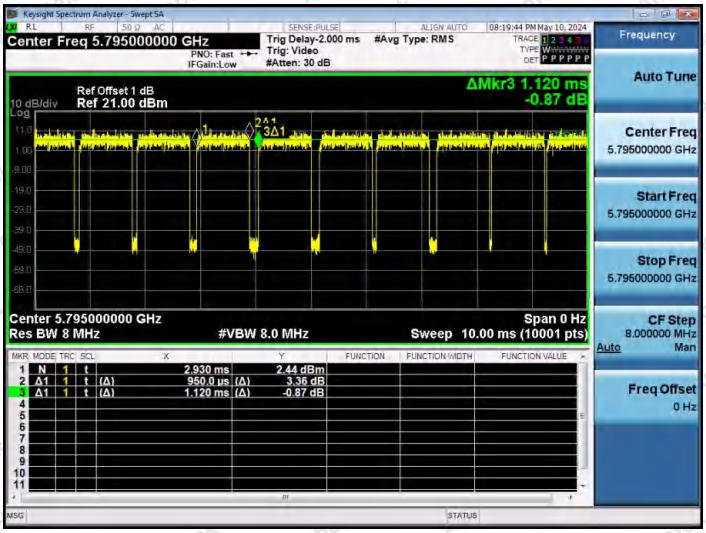

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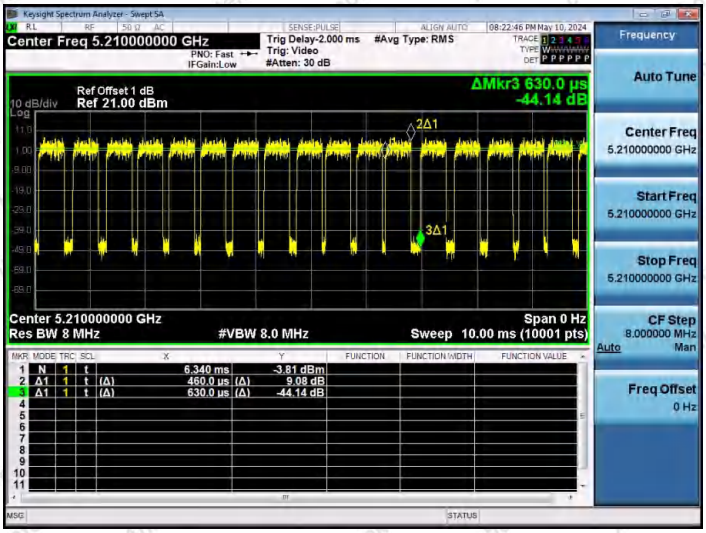
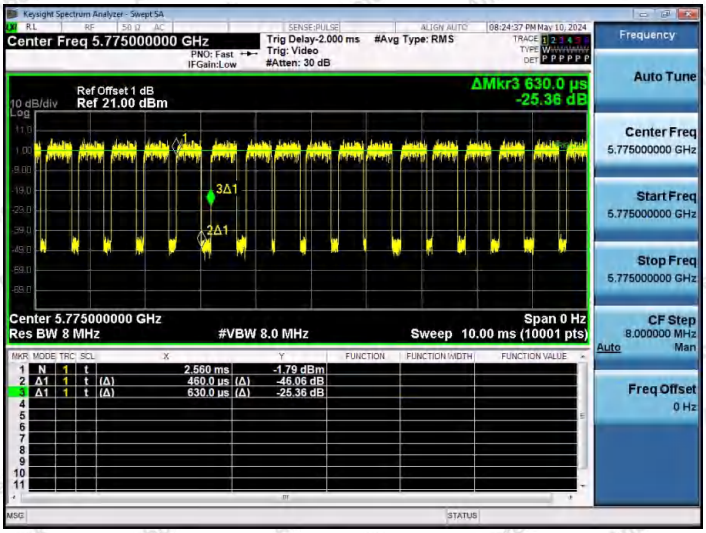


NTNV-11AC80SISO-Ant1-5210



NTNV-11AC80SISO-Ant1-5775

Appendix C: Maximum Conducted Output Power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.33	92.41	0.34	14.67	≤23.98	PASS
11A	Ant1	5200	14.32	92.79	0.32	14.64	≤23.98	PASS
11A	Ant1	5240	14.63	95.39	0.20	14.83	≤23.98	PASS
11A	Ant1	5745	14.02	92.83	0.32	14.34	≤30.00	PASS
11A	Ant1	5785	14.38	95.83	0.18	14.56	≤30.00	PASS
11A	Ant1	5825	13.89	93.67	0.28	14.17	≤30.00	PASS
11N20SISO	Ant1	5180	14.52	93.20	0.31	14.83	≤23.98	PASS
11N20SISO	Ant1	5200	14.74	93.66	0.28	15.02	≤23.98	PASS
11N20SISO	Ant1	5240	15.11	92.31	0.35	15.46	≤23.98	PASS
11N20SISO	Ant1	5745	13.94	93.20	0.31	14.25	≤30.00	PASS
11N20SISO	Ant1	5785	14.23	93.20	0.31	14.54	≤30.00	PASS
11N20SISO	Ant1	5825	13.75	94.58	0.24	13.99	≤30.00	PASS
11N40SISO	Ant1	5190	13.98	87.04	0.60	14.58	≤23.98	PASS
11N40SISO	Ant1	5230	14.36	86.24	0.64	15.00	≤23.98	PASS
11N40SISO	Ant1	5755	13.14	85.45	0.68	13.82	≤30.00	PASS
11N40SISO	Ant1	5795	13.20	87.96	0.56	13.76	≤30.00	PASS
11AC20SISO	Ant1	5180	14.40	91.90	0.37	14.77	≤23.98	PASS
11AC20SISO	Ant1	5200	14.89	93.69	0.28	15.17	≤23.98	PASS
11AC20SISO	Ant1	5240	15.16	91.94	0.36	15.52	≤23.98	PASS
11AC20SISO	Ant1	5745	13.78	92.79	0.32	14.10	≤30.00	PASS
11AC20SISO	Ant1	5785	14.14	92.38	0.34	14.48	≤30.00	PASS
11AC20SISO	Ant1	5825	13.63	92.34	0.35	13.98	≤30.00	PASS
11AC40SISO	Ant1	5190	13.93	86.36	0.64	14.57	≤23.98	PASS
11AC40SISO	Ant1	5230	14.41	86.36	0.64	15.05	≤23.98	PASS
11AC40SISO	Ant1	5755	13.11	84.07	0.75	13.86	≤30.00	PASS
11AC40SISO	Ant1	5795	13.16	84.82	0.72	13.88	≤30.00	PASS
11AC80SISO	Ant1	5210	13.41	73.02	1.37	14.78	≤23.98	PASS
11AC80SISO	Ant1	5775	12.25	73.02	1.37	13.62	≤30.00	PASS

Note：1.The Duty Cycle Factor and cable loss are compensated in the graph.