

Appendix Test Data

Report No.:	18220WC30201904	Test Sample No.:	1-2-2
Start Test Date:	2023.10.09	Finish Test Date:	2023.10.19
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	49.2%
Pressure:	101kPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.96	5735.04	5745.00	---	---
	Ant2	5740	9.96	5735.06	5745.02	---	---
	Ant1	5780	9.94	5775.08	5785.02	---	---
	Ant2	5780	9.88	5775.06	5784.94	---	---
	Ant1	5820	9.86	5815.06	5824.92	---	---
	Ant2	5820	9.82	5815.08	5824.90	---	---
20M	Ant1	5740	19.44	5730.28	5749.72	---	---
	Ant2	5740	19.36	5730.28	5749.64	---	---
	Ant1	5780	19.68	5770.28	5789.96	---	---
	Ant2	5780	19.32	5770.32	5789.64	---	---
	Ant1	5820	19.40	5810.24	5829.64	---	---
	Ant2	5820	19.48	5810.24	5829.72	---	---
40M	Ant1	5760	38.64	5740.64	5779.28	---	---
	Ant2	5760	38.32	5740.88	5779.20	---	---
	Ant1	5780	38.40	5760.80	5799.20	---	---
	Ant2	5780	38.40	5760.80	5799.20	---	---
	Ant1	5820	38.48	5800.72	5839.20	---	---
	Ant2	5820	38.48	5800.88	5839.36	---	---



Test Graphs



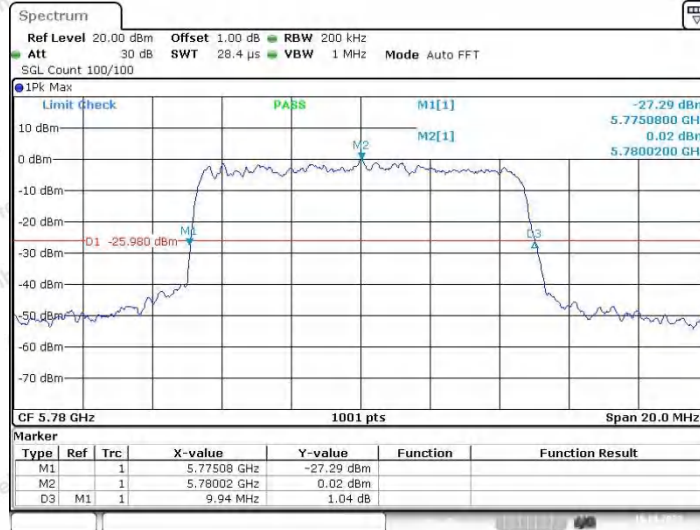
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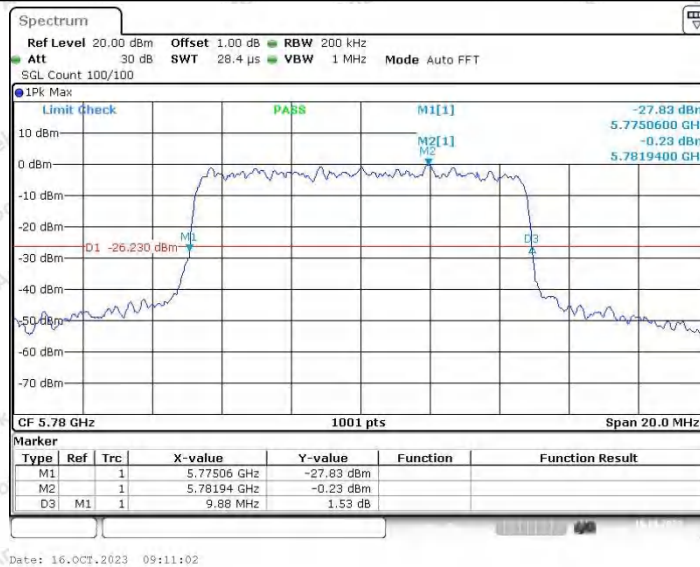


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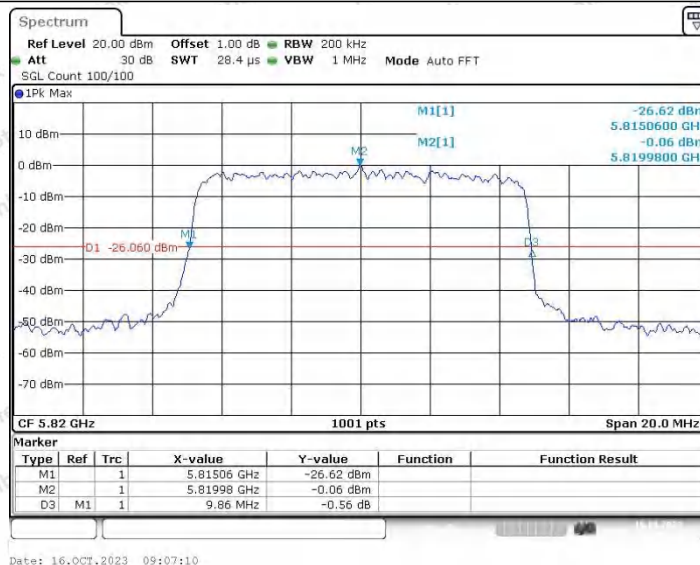




10M_Ant2_5780



10M_Ant1_5820



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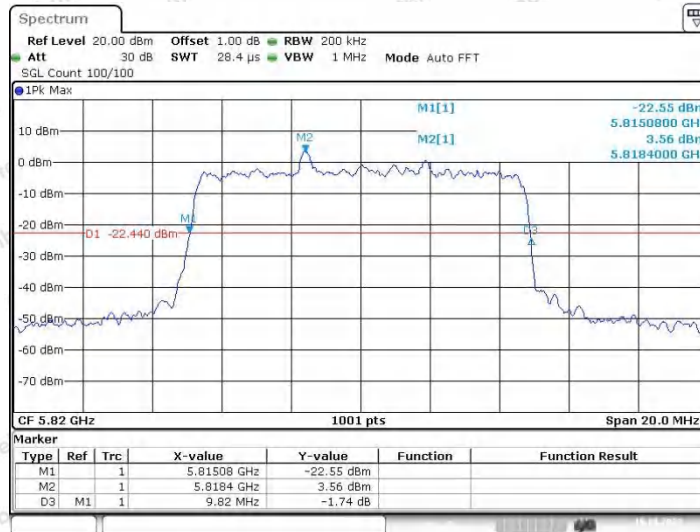
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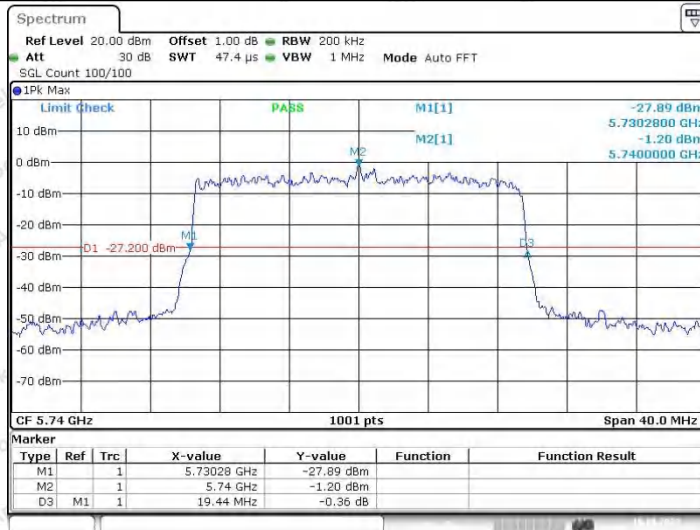
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10M_Ant2_5820



20M_Ant1_5740



20M_Ant2_5740

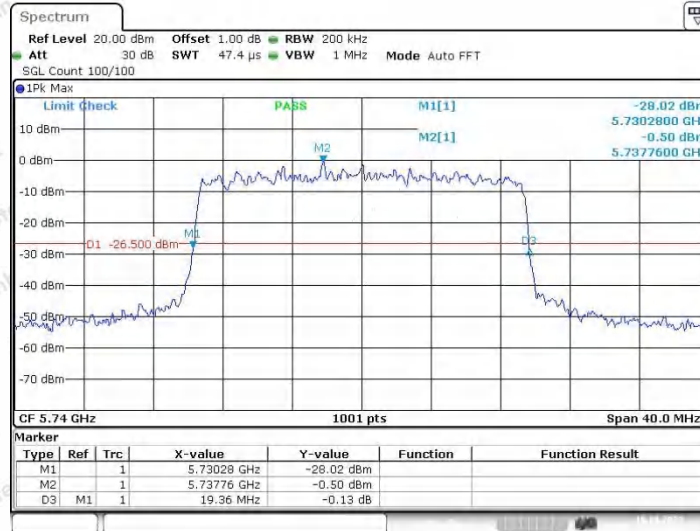
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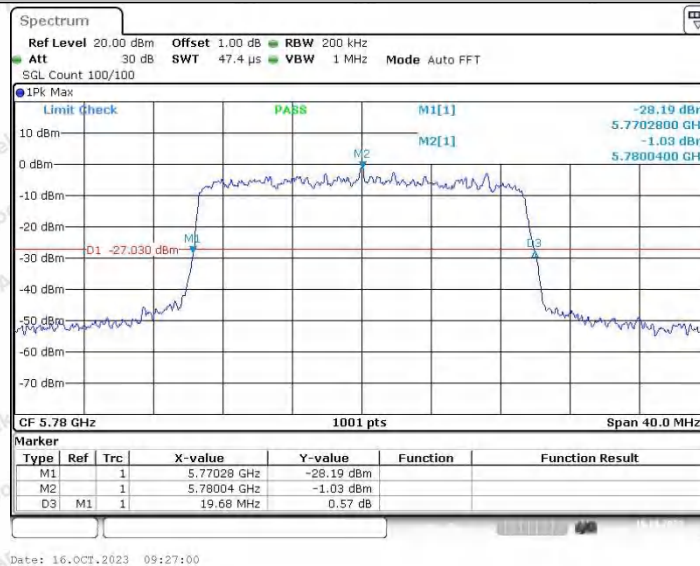


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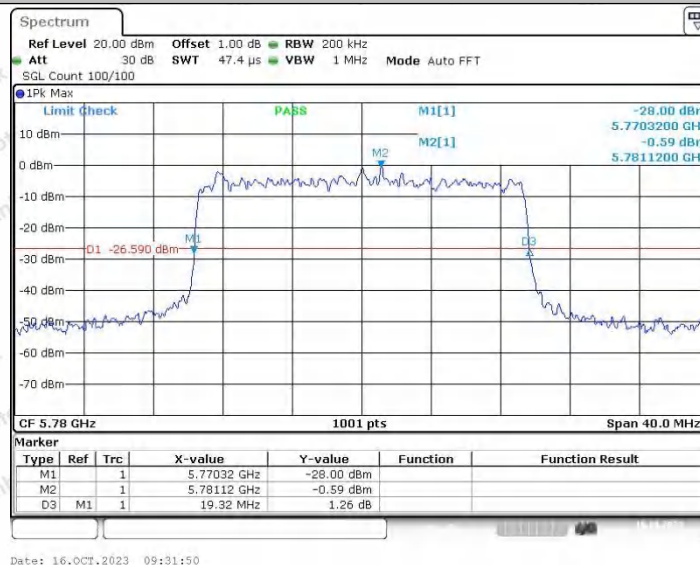




20M_Ant1_5780



20M_Ant2_5780



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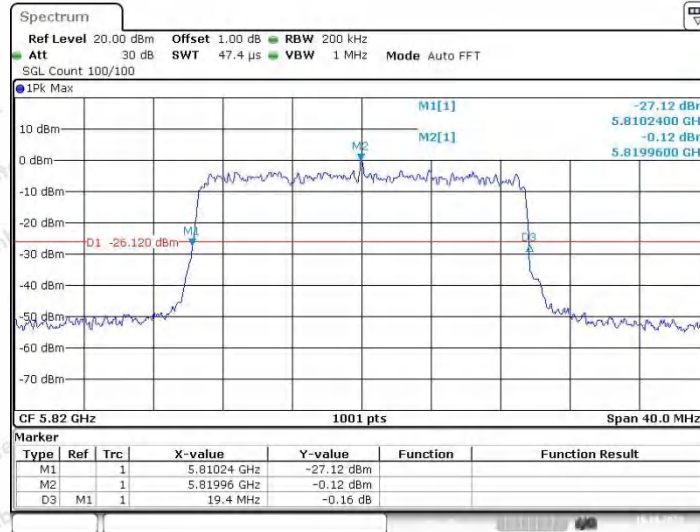
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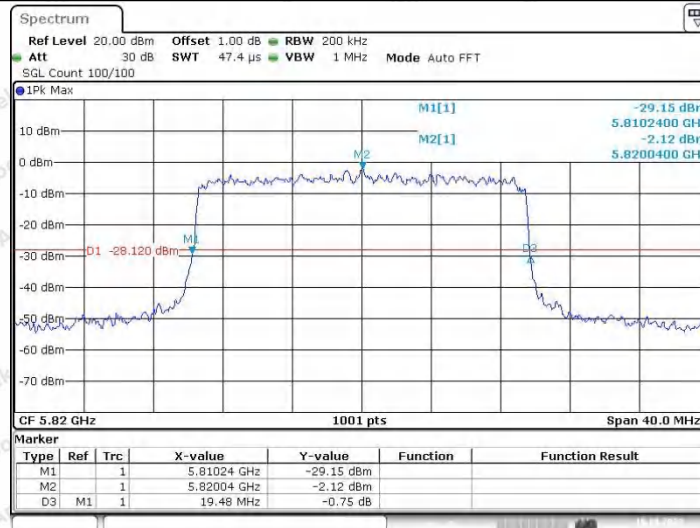


20M_Ant1_5820



Date: 16.OCT.2023 09:28:33

20M_Ant2_5820



Date: 16.OCT.2023 09:33:14

40M_Ant1_5760

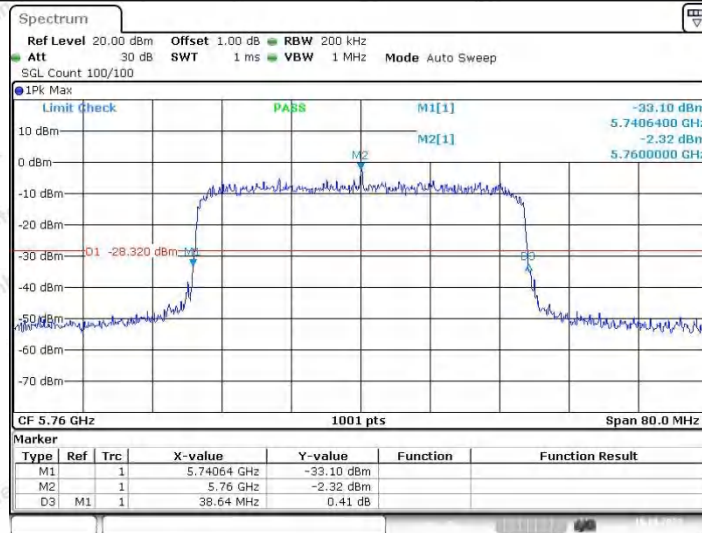
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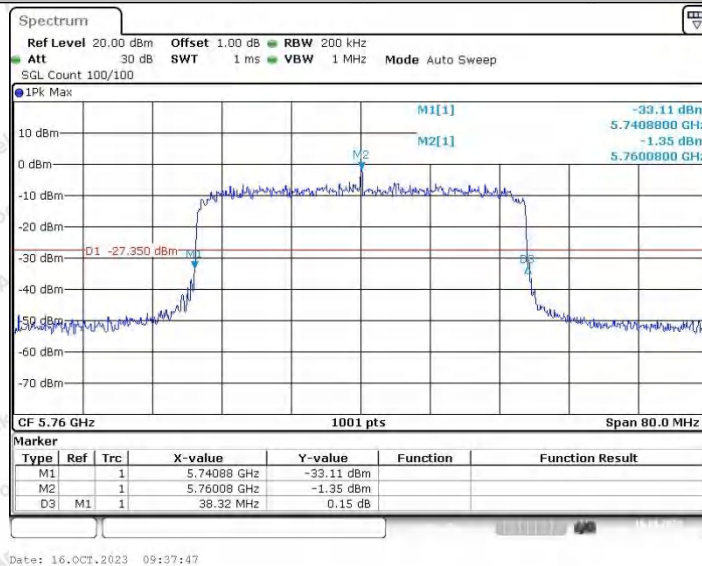


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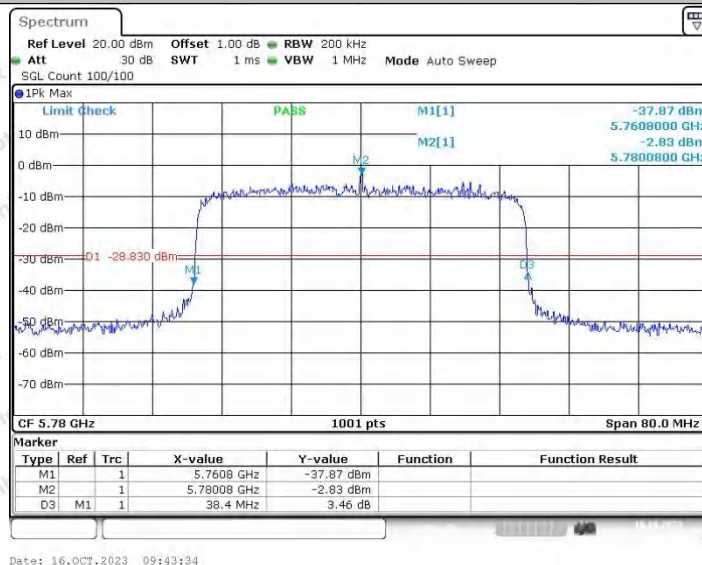




40M_Ant2_5760



40M_Ant1_5780



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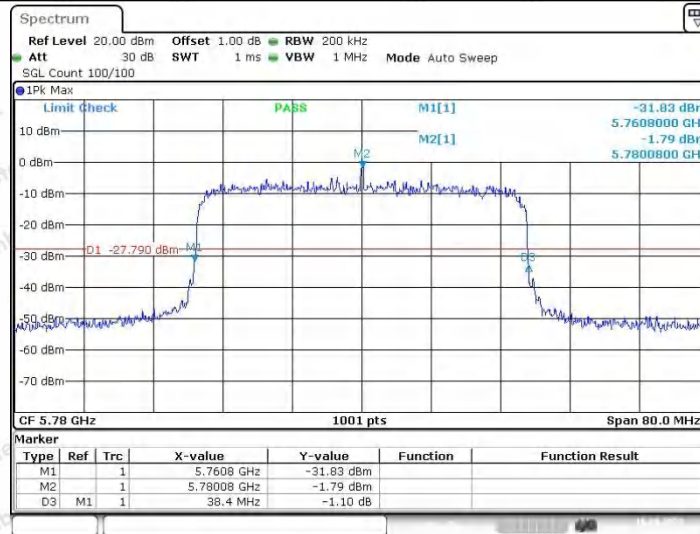
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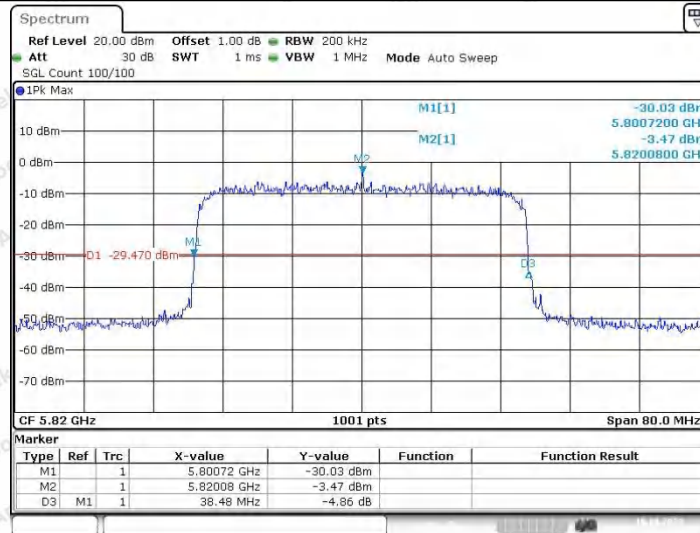
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40M_Ant2_5780



40M_Ant1_5820



40M_Ant2_5820

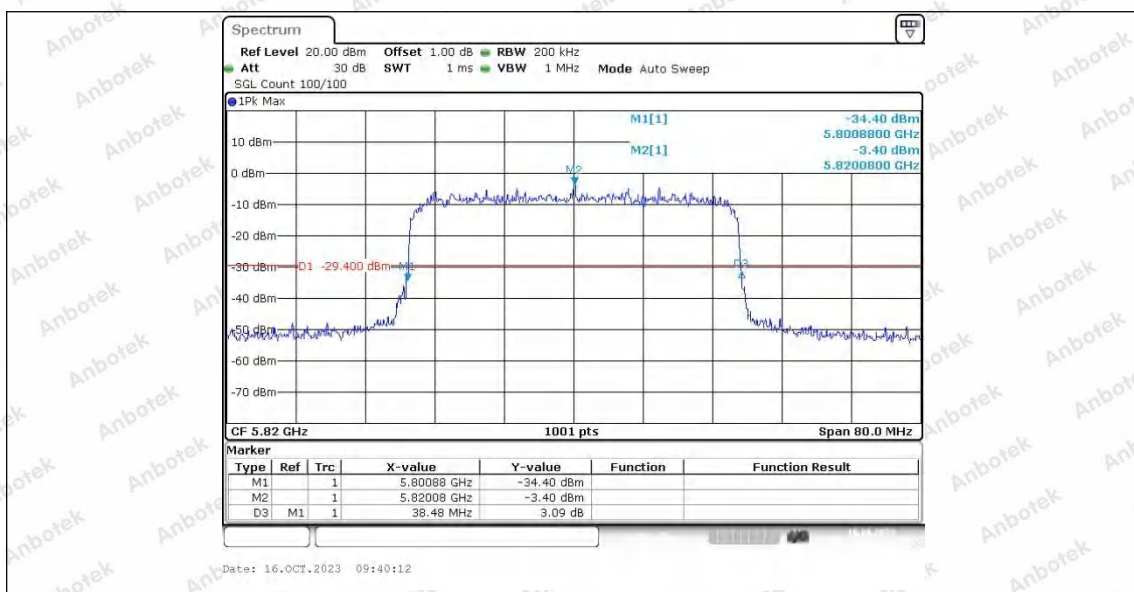
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Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.471	5735.2448	5744.7153	---	---
	Ant2	5740	9.471	5735.2647	5744.7353	---	---
	Ant1	5780	9.451	5775.3047	5784.7552	---	---
	Ant2	5780	9.471	5775.2647	5784.7353	---	---
	Ant1	5820	9.451	5815.2647	5824.7153	---	---
	Ant2	5820	9.471	5815.2847	5824.7552	---	---
20M	Ant1	5740	18.581	5730.7293	5749.3107	---	---
	Ant2	5740	18.581	5730.7293	5749.3107	---	---
	Ant1	5780	18.541	5770.7293	5789.2707	---	---
	Ant2	5780	18.581	5770.7293	5789.3107	---	---
	Ant1	5820	18.621	5810.6893	5829.3107	---	---
	Ant2	5820	18.581	5810.7293	5829.3107	---	---
40M	Ant1	5760	36.683	5741.6983	5778.3816	---	---
	Ant2	5760	36.683	5741.6983	5778.3816	---	---
	Ant1	5780	36.683	5761.6184	5798.3017	---	---
	Ant2	5780	36.683	5761.6184	5798.3017	---	---
	Ant1	5820	36.683	5801.6983	5838.3816	---	---
	Ant2	5820	36.763	5801.6184	5838.3816	---	---



Test Graphs



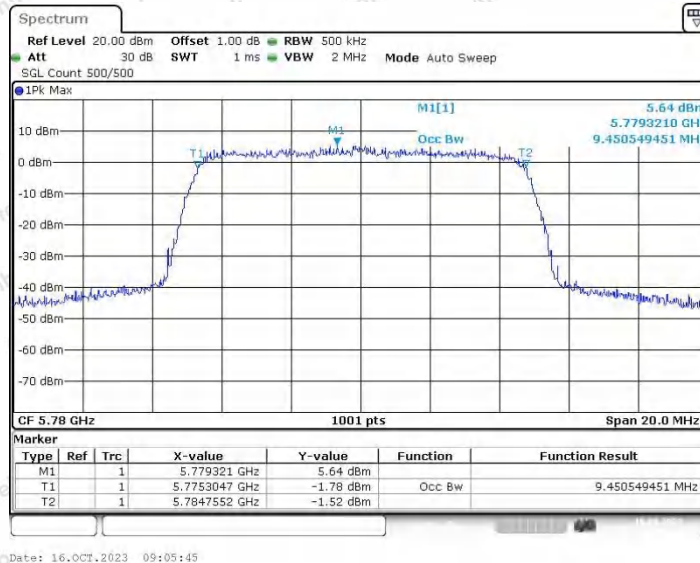
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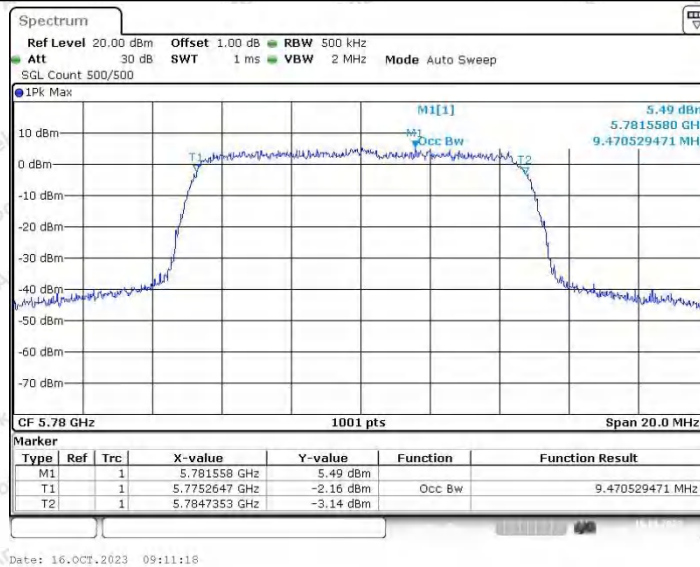


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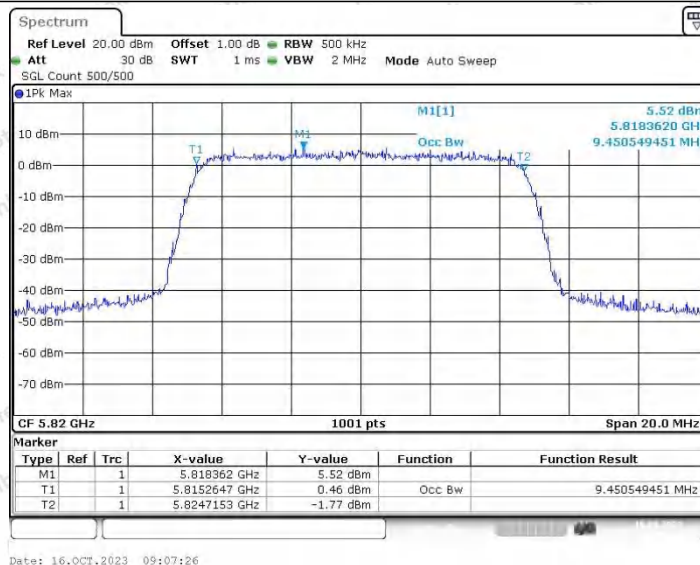




10M_Ant2_5780



10M_Ant1_5820



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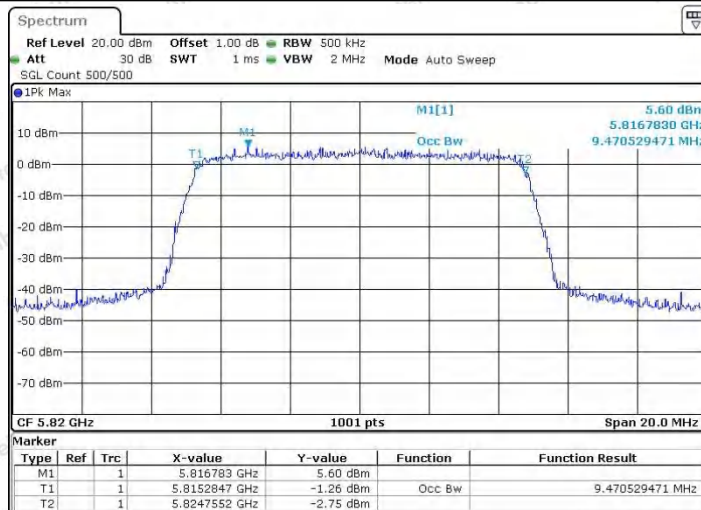
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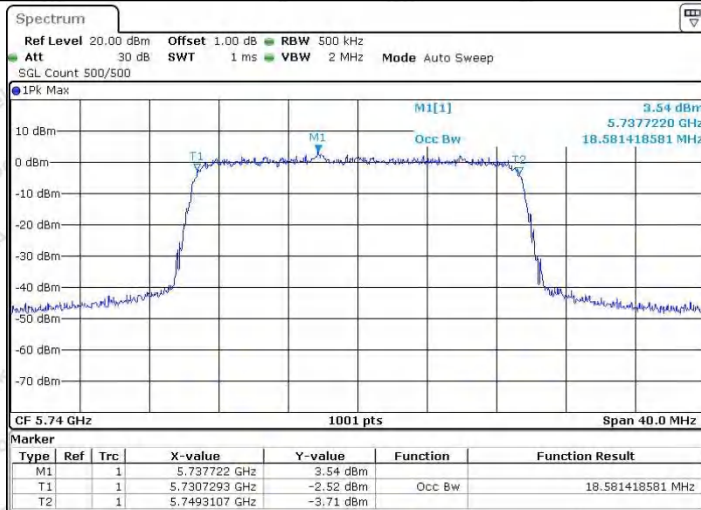


10M_Ant2_5820



Date: 16.OCT.2023 09:12:31

20M_Ant1_5740



Date: 16.OCT.2023 09:25:50

20M_Ant2_5740

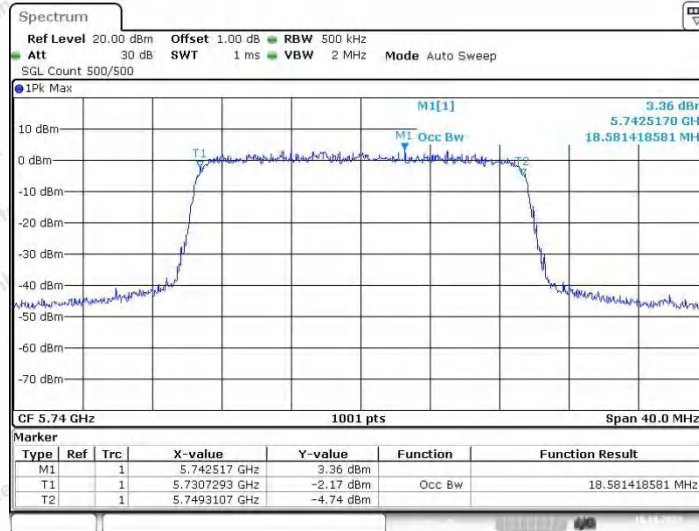
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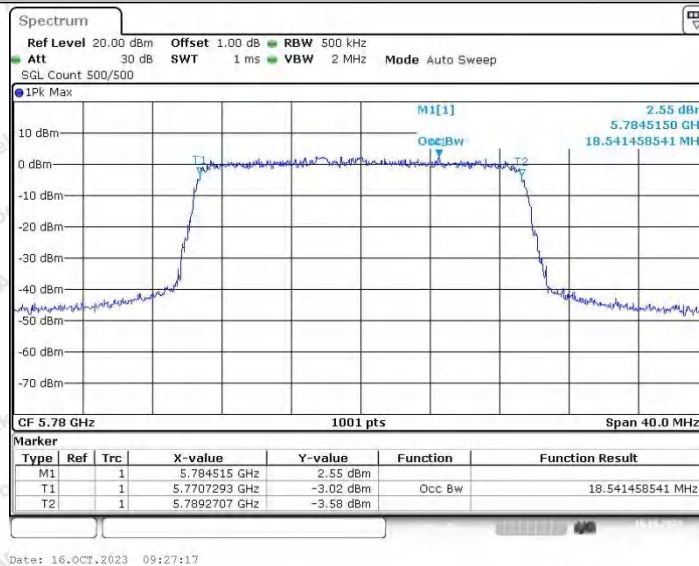


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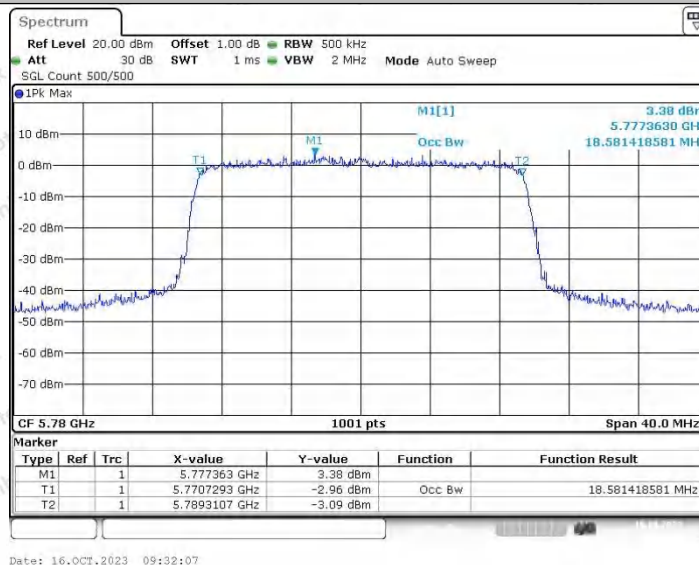




20M_Ant1_5780



20M_Ant2_5780



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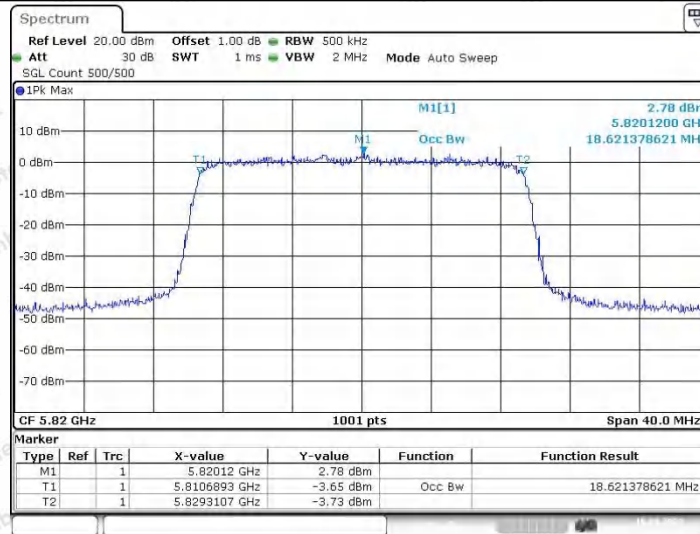
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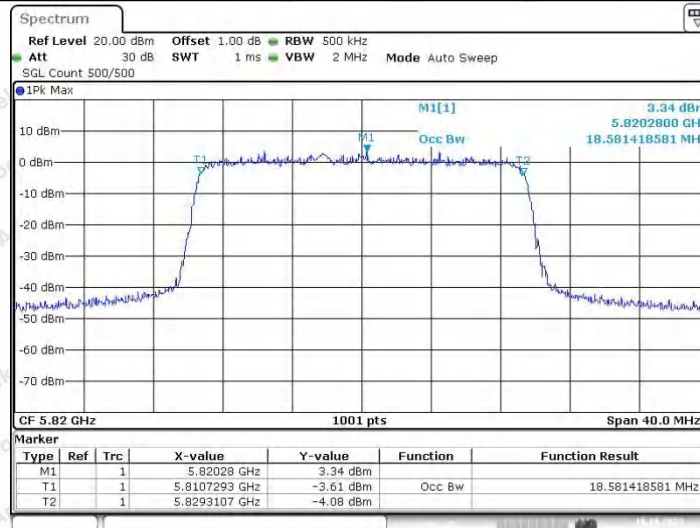


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Date: 16.OCT.2023 09:28:50

20M_Ant2_5820



Date: 16.OCT.2023 09:33:32

40M_Ant1_5760

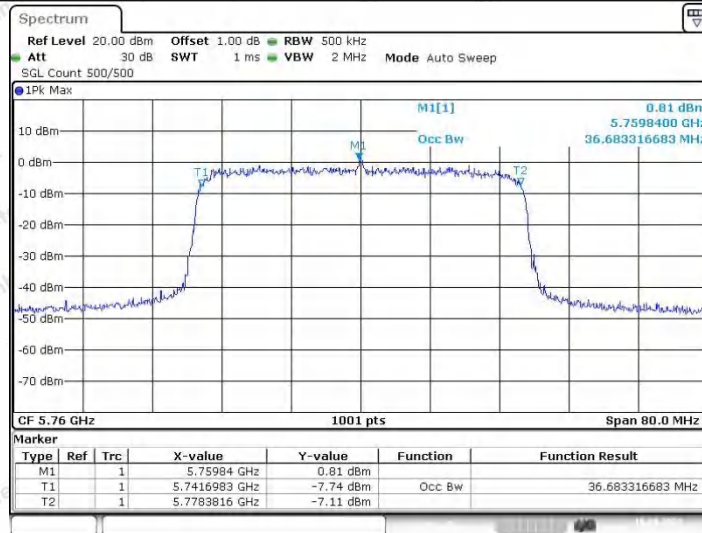
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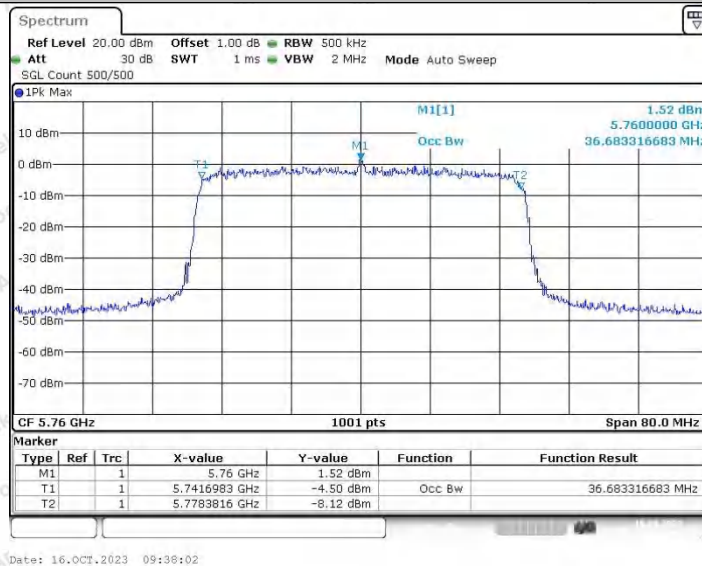


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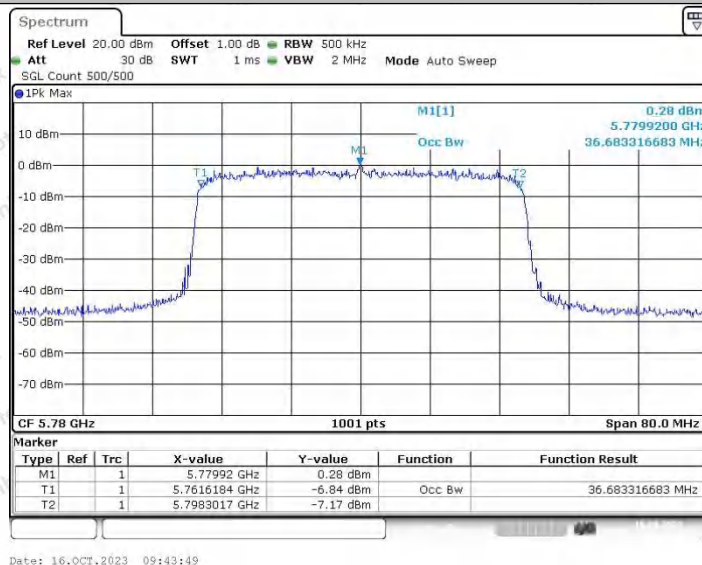




40M_Ant2_5760



40M_Ant1_5780



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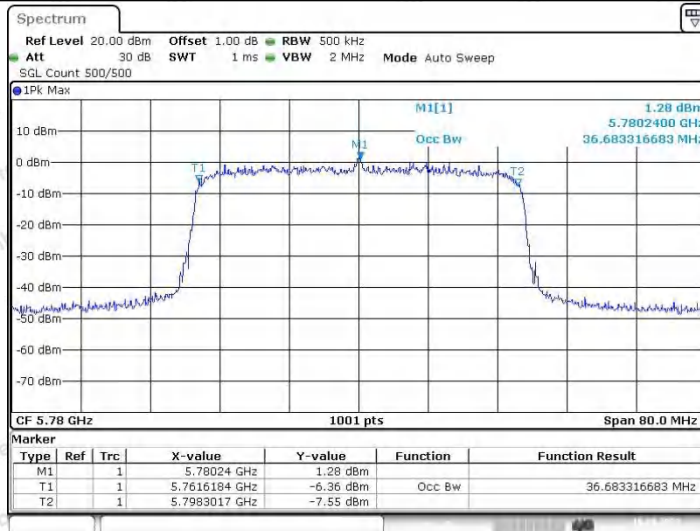
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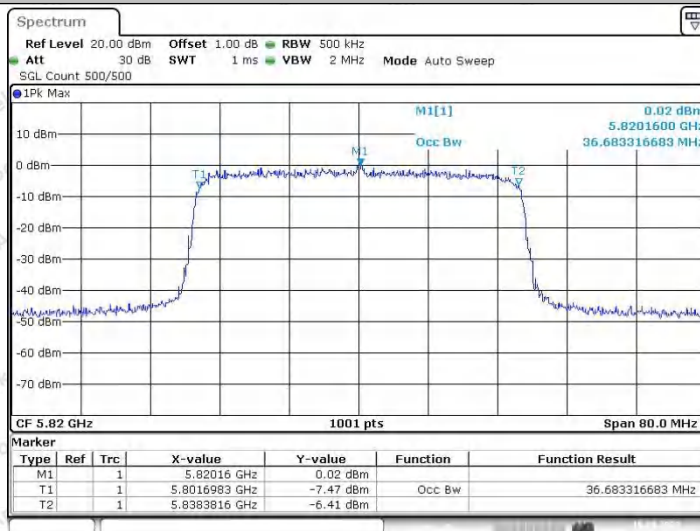


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Date: 16.OCT.2023 09:39:20

40M_Ant1_5820



Date: 16.OCT.2023 09:45:01

40M_Ant2_5820

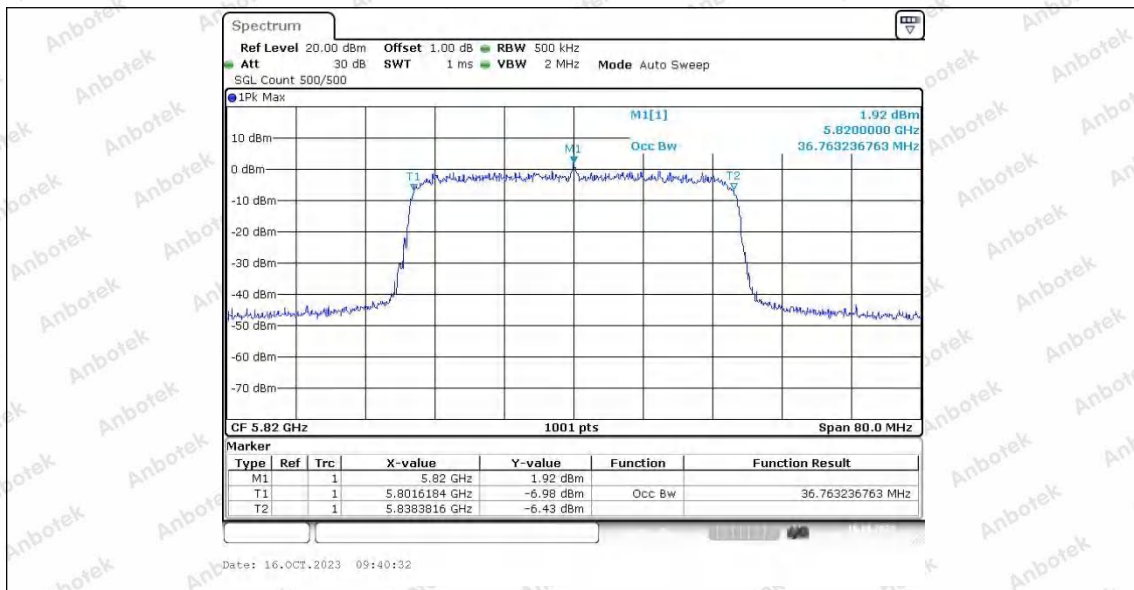
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Appendix A3: Min emission bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.18	5735.36	5744.54	0.5	PASS
	Ant2	5740	9.36	5735.30	5744.66	0.5	PASS
	Ant1	5780	9.26	5775.46	5784.72	0.5	PASS
	Ant2	5780	9.28	5775.32	5784.60	0.5	PASS
	Ant1	5820	9.02	5815.44	5824.46	0.5	PASS
	Ant2	5820	9.36	5815.28	5824.64	0.5	PASS
20M	Ant1	5740	17.72	5730.96	5748.68	0.5	PASS
	Ant2	5740	18.28	5730.76	5749.04	0.5	PASS
	Ant1	5780	17.20	5771.28	5788.48	0.5	PASS
	Ant2	5780	17.52	5771.40	5788.92	0.5	PASS
	Ant1	5820	17.08	5810.84	5827.92	0.5	PASS
	Ant2	5820	17.64	5811.24	5828.88	0.5	PASS
40M	Ant1	5760	33.52	5744.08	5777.60	0.5	PASS
	Ant2	5760	27.60	5745.92	5773.52	0.5	PASS
	Ant1	5780	30.80	5763.92	5794.72	0.5	PASS
	Ant2	5780	25.84	5766.72	5792.56	0.5	PASS
	Ant1	5820	34.08	5802.80	5836.88	0.5	PASS
	Ant2	5820	33.52	5803.36	5836.88	0.5	PASS



Test Graphs



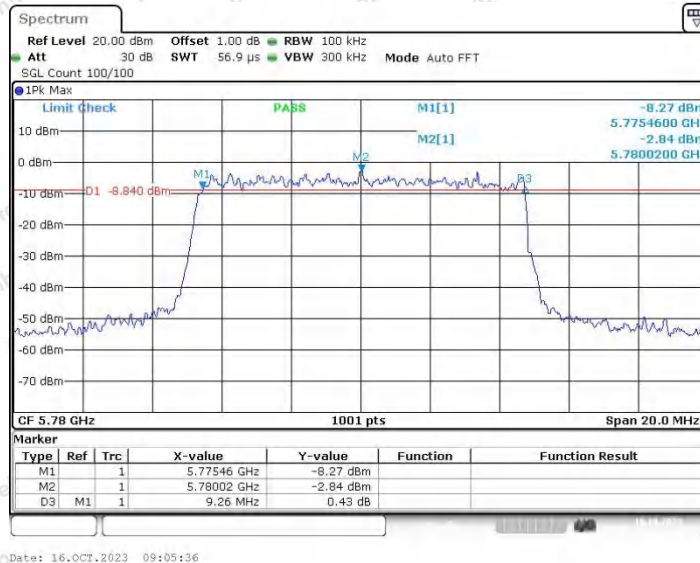
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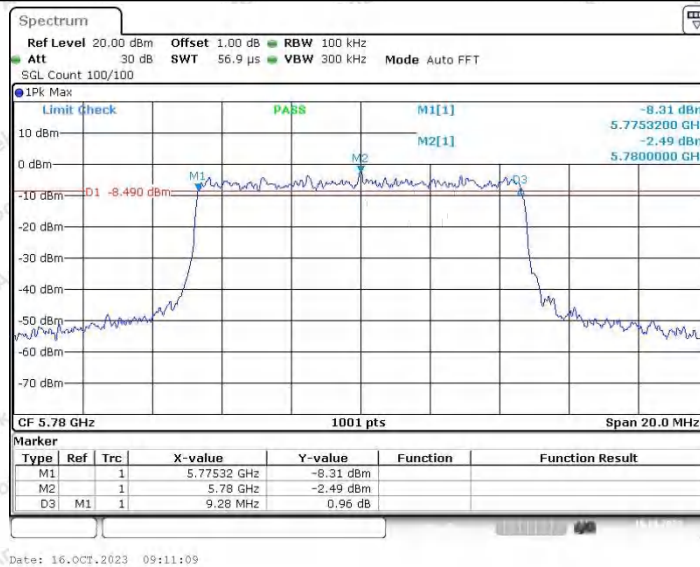


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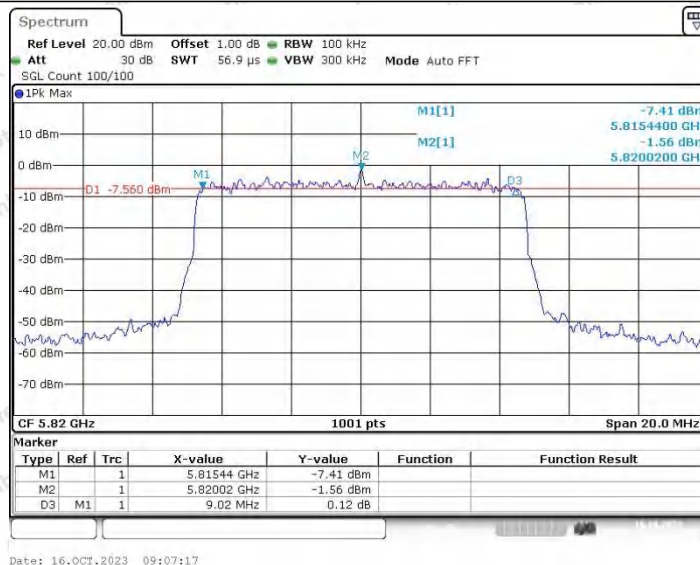




10M_Ant2_5780



10M_Ant1_5820



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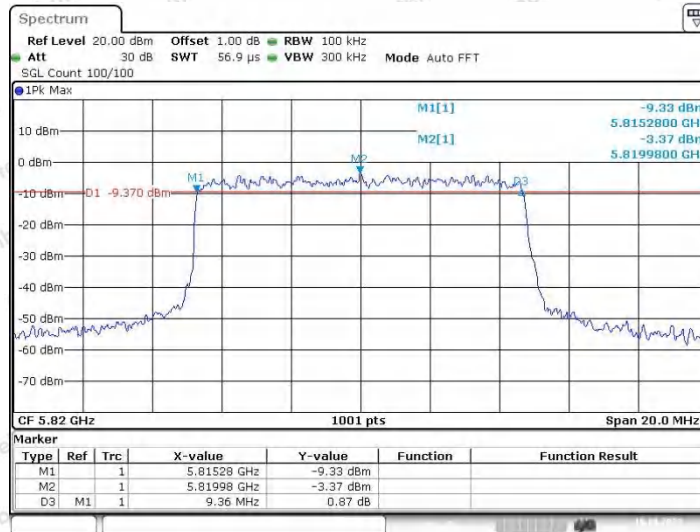
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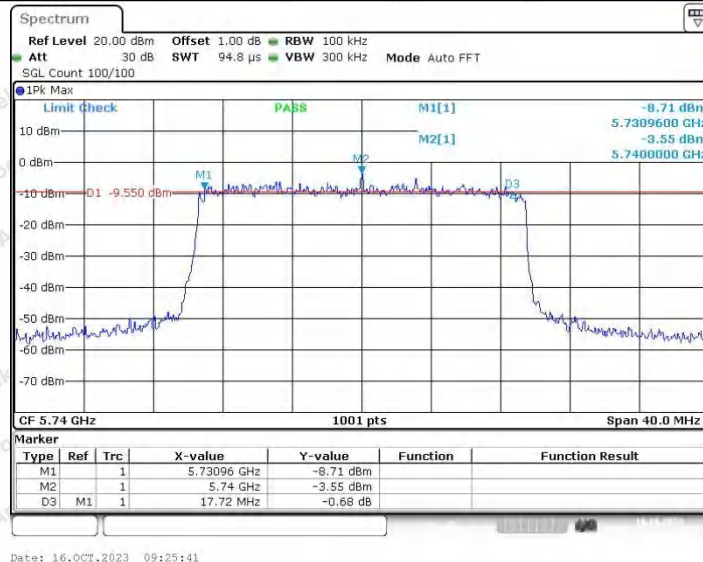
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10M_Ant2_5820



20M_Ant1_5740



20M_Ant2_5740

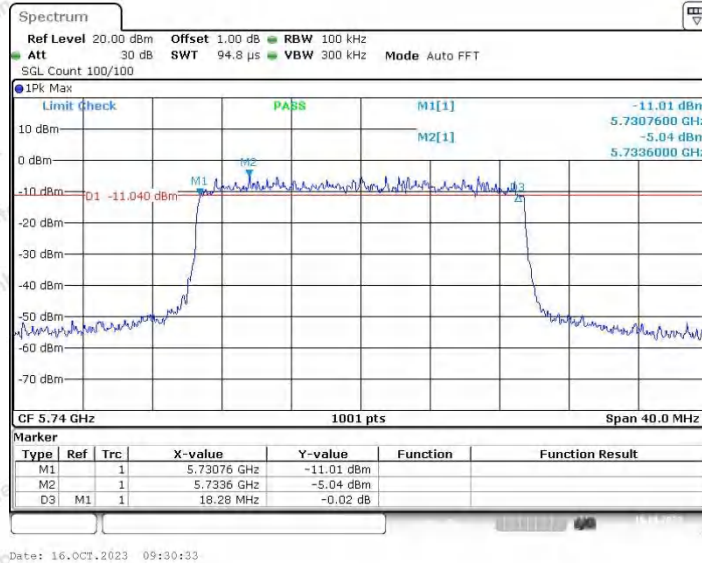
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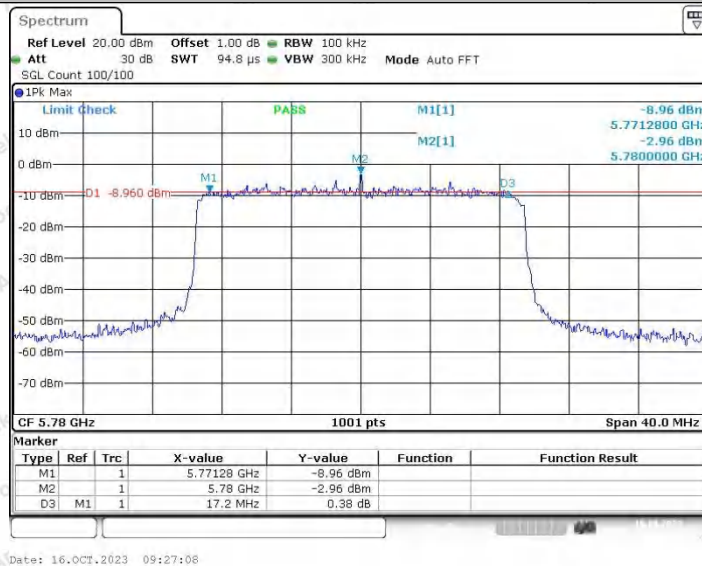


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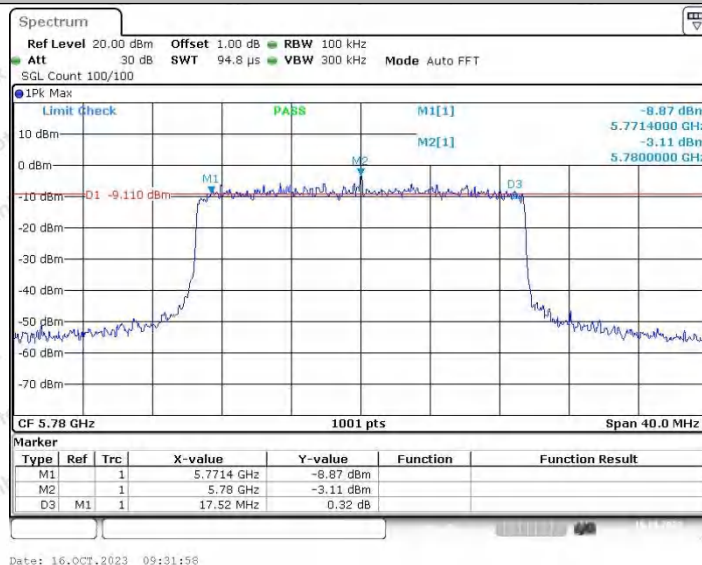




20M_Ant1_5780



20M_Ant2_5780



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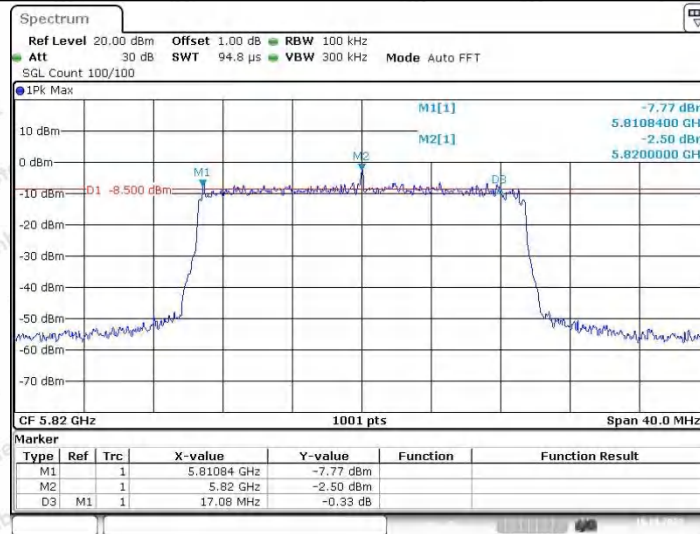
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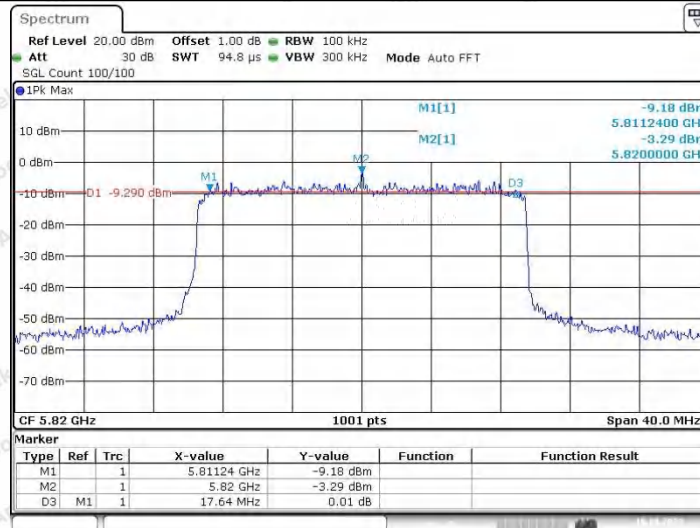


20M_Ant1_5820



Date: 16.OCT.2023 09:28:41

20M_Ant2_5820



Date: 16.OCT.2023 09:33:22

40M_Ant1_5760

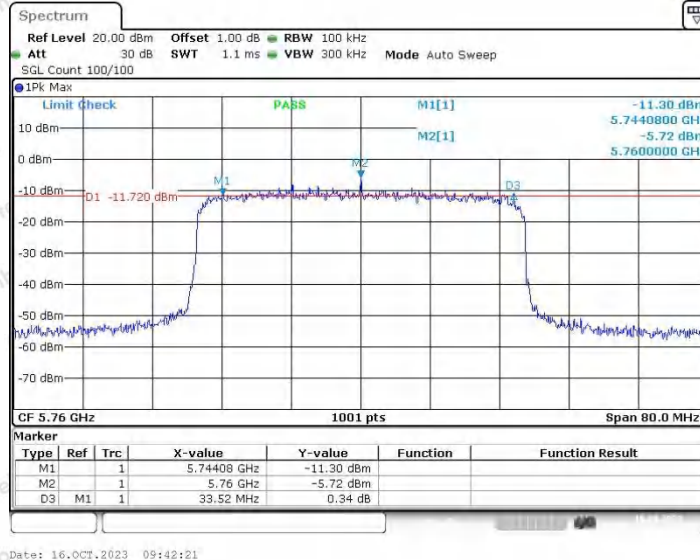
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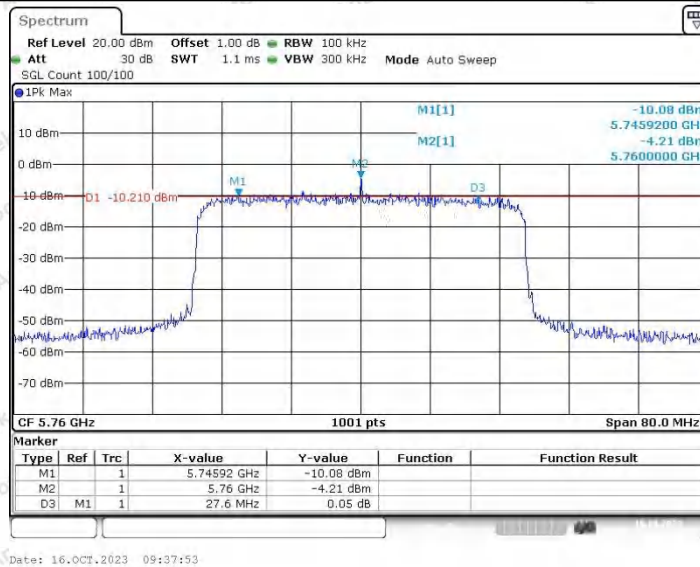


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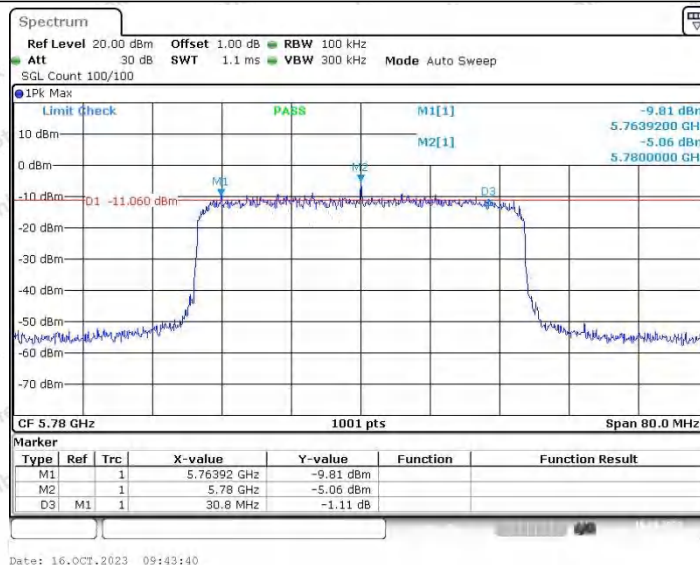




40M_Ant2_5760



40M_Ant1_5780



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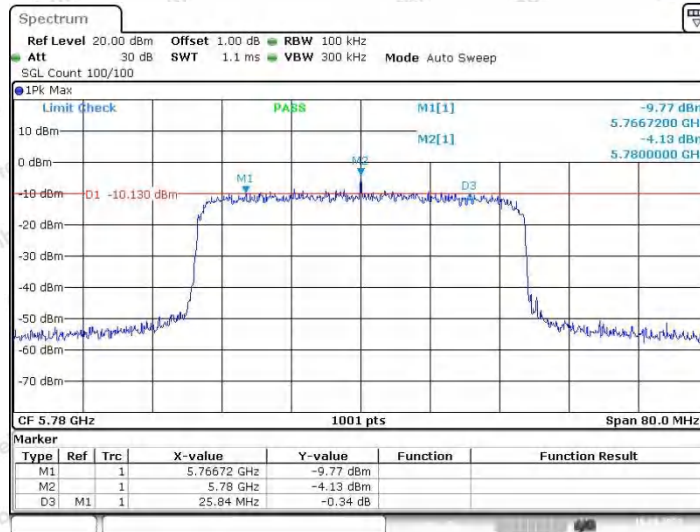
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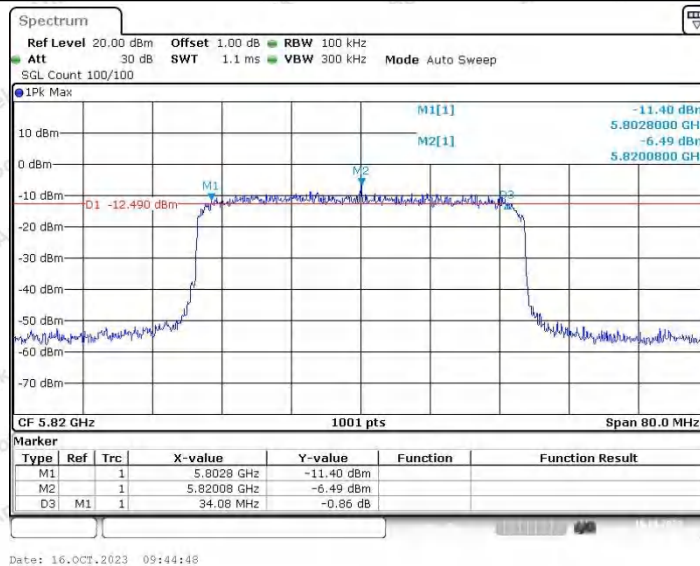
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40M_Ant2_5780



40M_Ant1_5820



40M_Ant2_5820

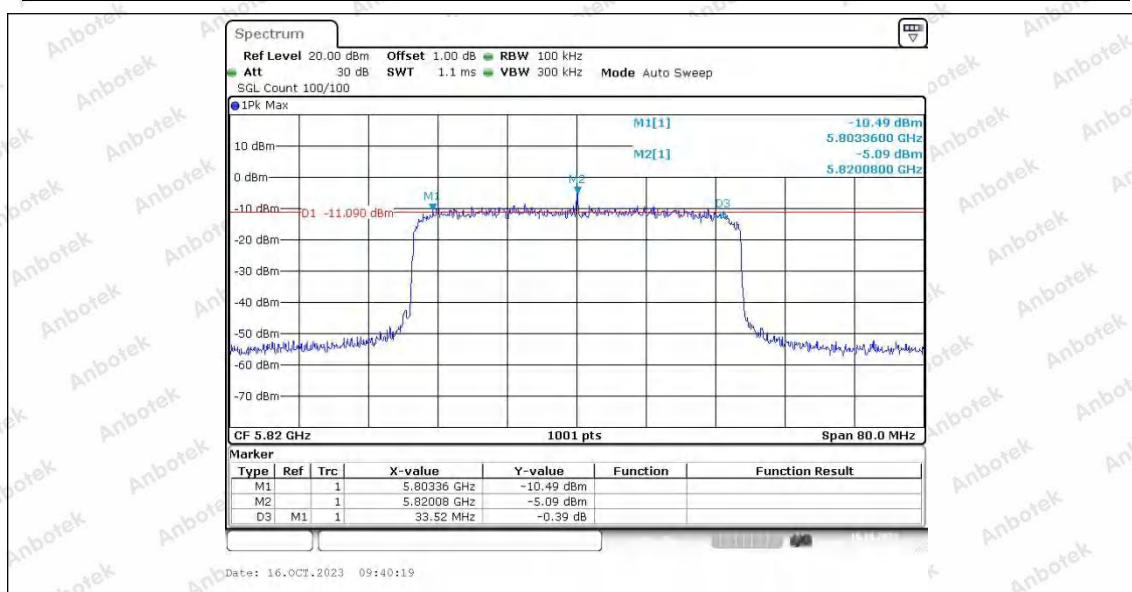
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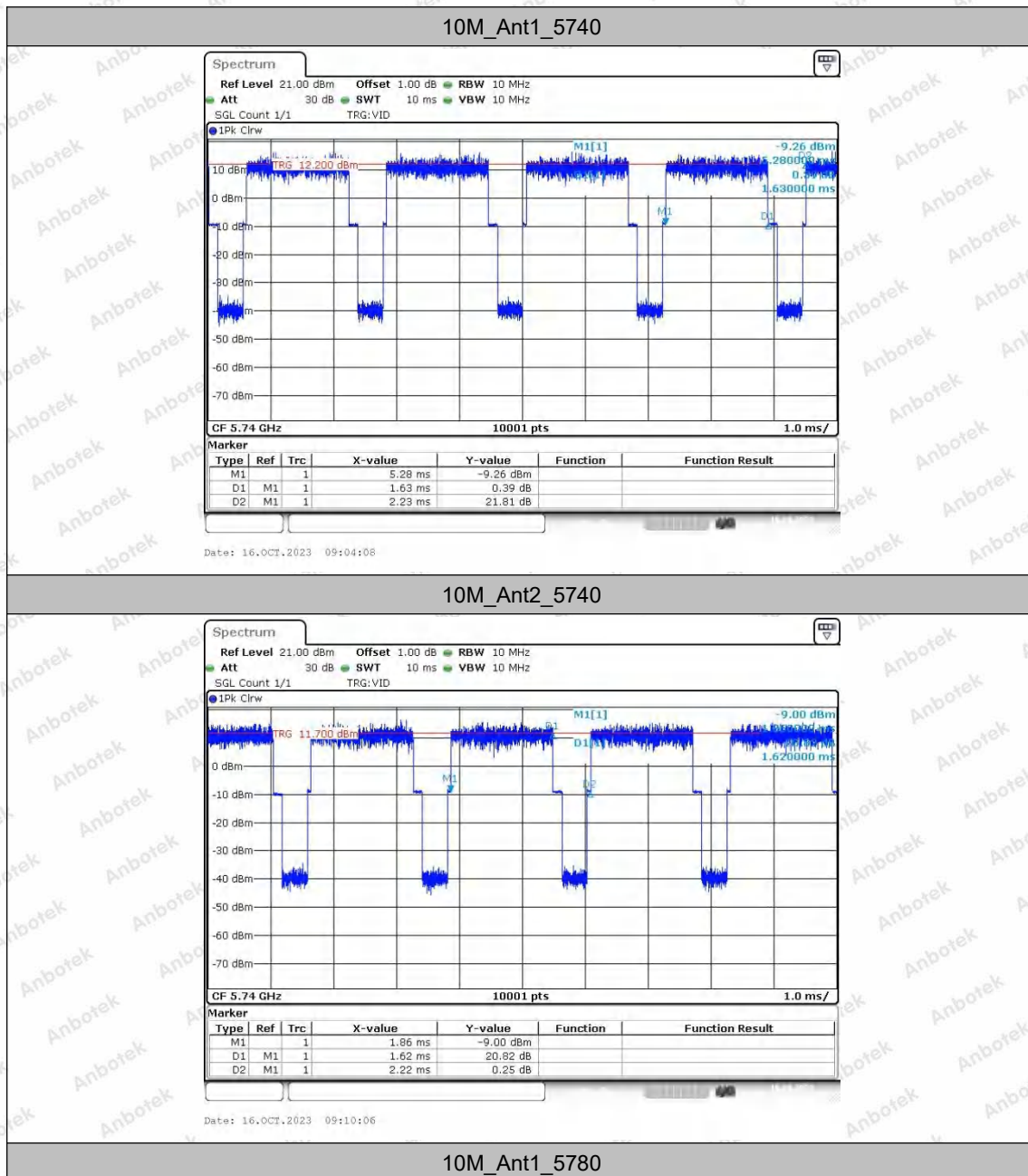
Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
10M	Ant1	5740	1.63	2.23	73.09
	Ant2	5740	1.62	2.22	72.97
	Ant1	5780	1.63	2.23	73.09
	Ant2	5780	1.62	2.22	72.97
	Ant1	5820	1.63	2.23	73.09
	Ant2	5820	1.62	2.22	72.97
20M	Ant1	5740	1.62	2.22	72.97
	Ant2	5740	1.63	2.23	73.09
	Ant1	5780	1.63	2.23	73.09
	Ant2	5780	1.62	2.22	72.97
	Ant1	5820	1.62	2.22	72.97
	Ant2	5820	1.63	2.23	73.09
40M	Ant1	5760	0.81	1.47	55.10
	Ant2	5760	0.81	1.47	55.10
	Ant1	5780	0.82	1.42	57.75
	Ant2	5780	0.81	1.41	57.45
	Ant1	5820	0.81	1.41	57.45
	Ant2	5820	0.81	1.41	57.45



Test Graphs



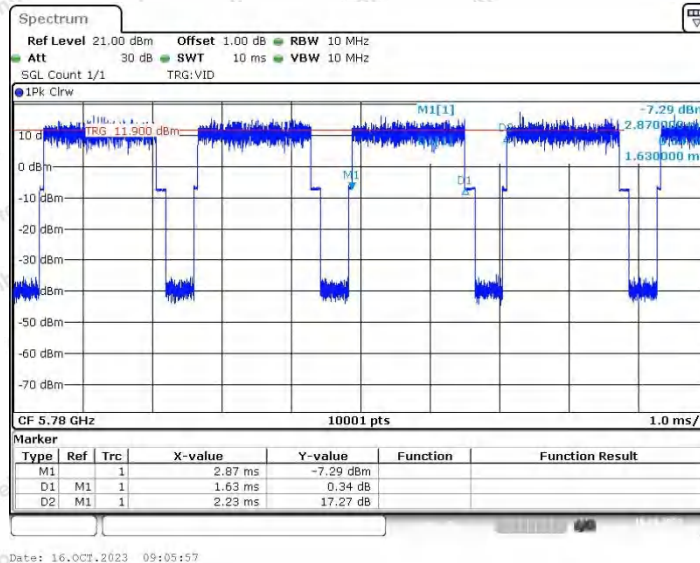
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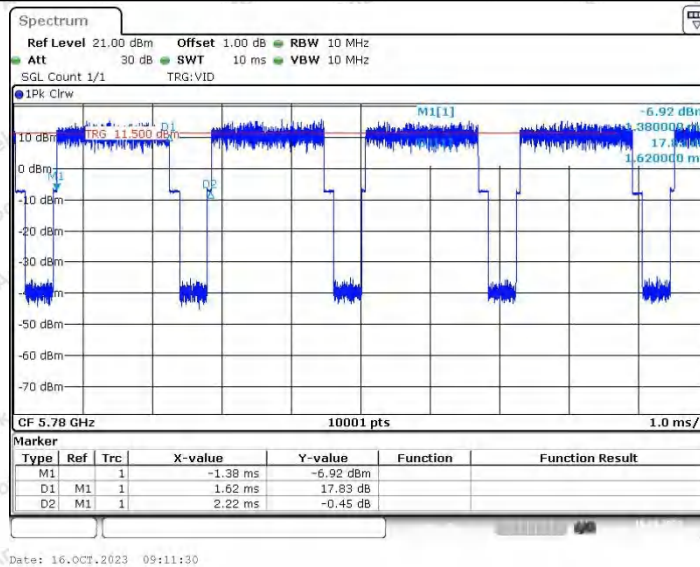


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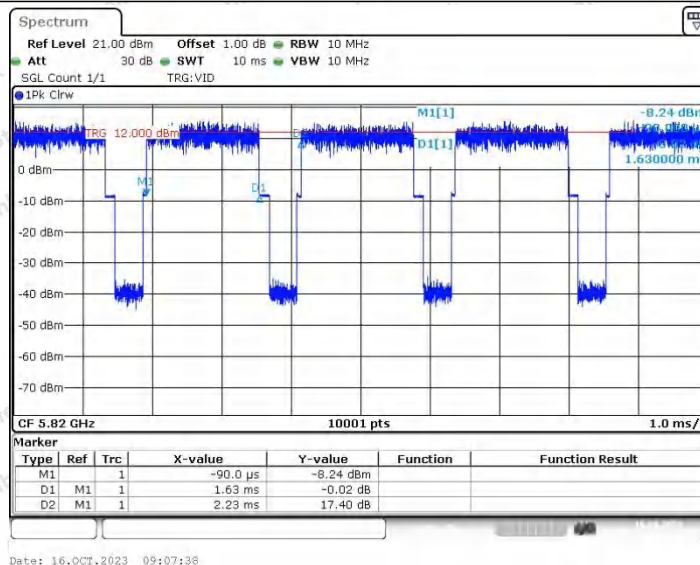




10M_Ant2_5780



10M_Ant1_5820



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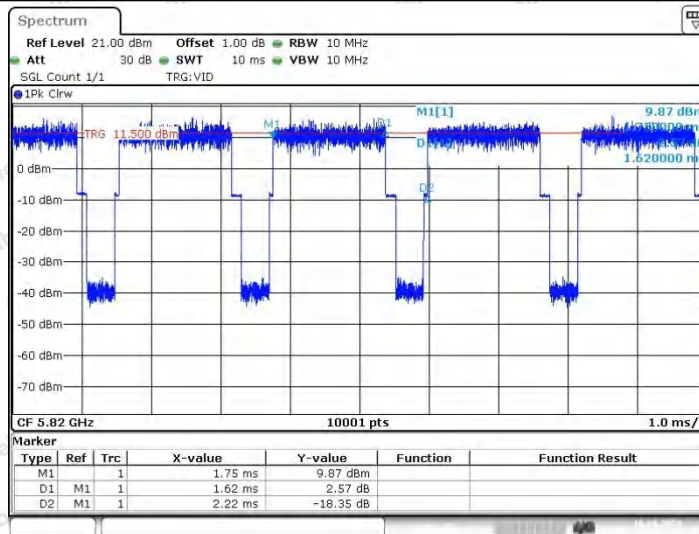
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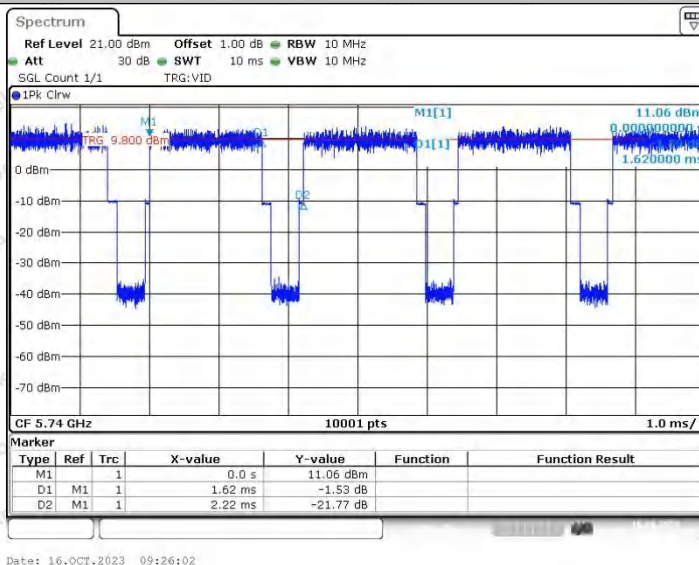
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10M_Ant2_5820



20M_Ant1_5740



20M_Ant2_5740

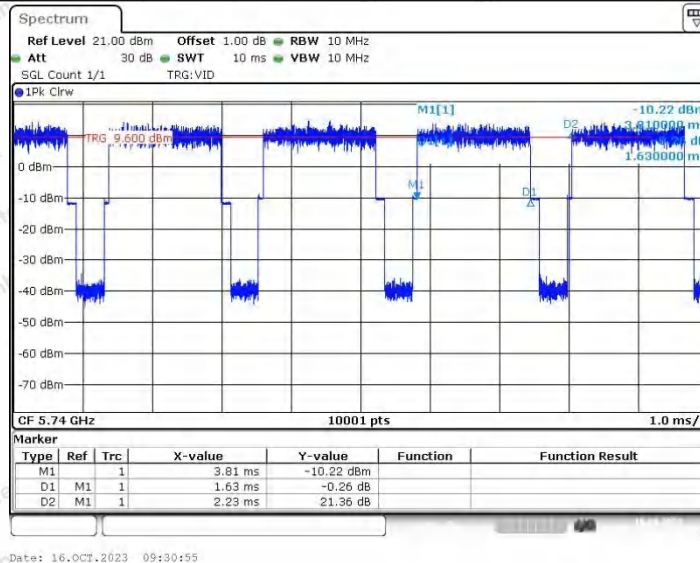
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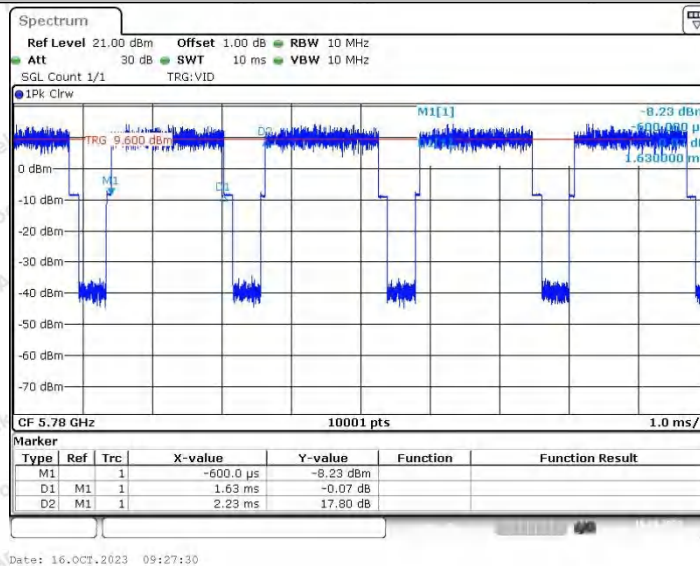


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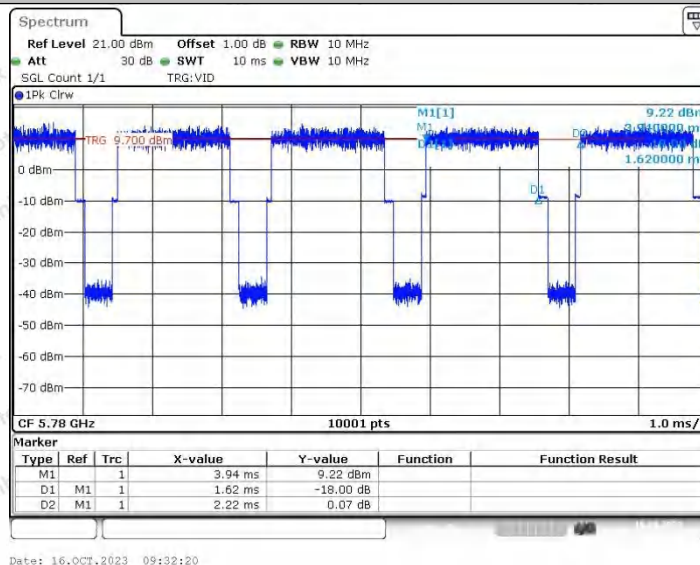




20M_Ant1_5780



20M_Ant2_5780



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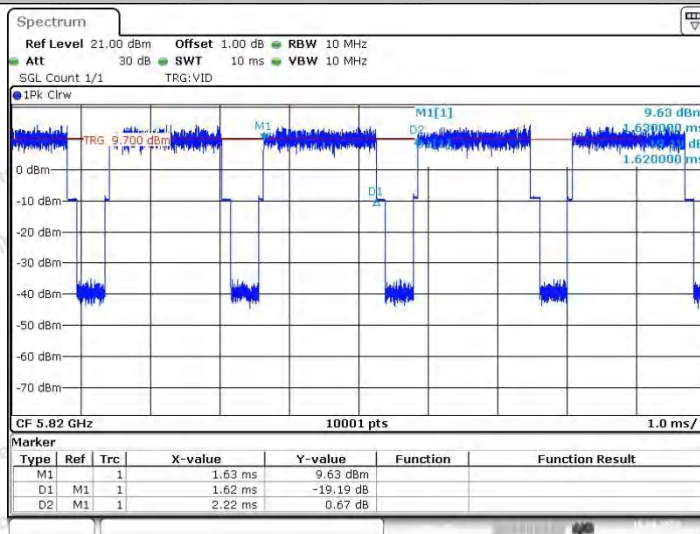
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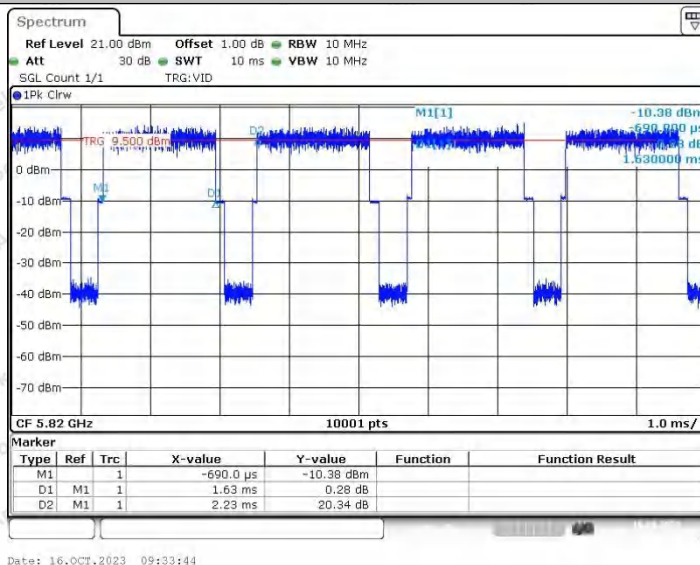
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20M_Ant1_5820



20M_Ant2_5820



11A_Ant1_5760

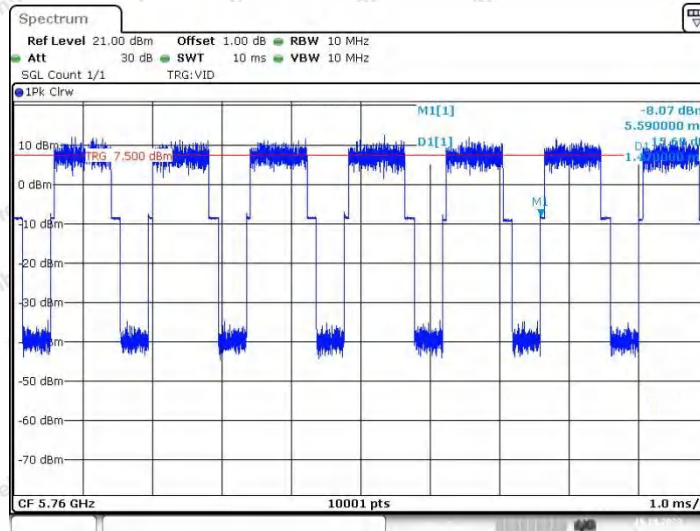
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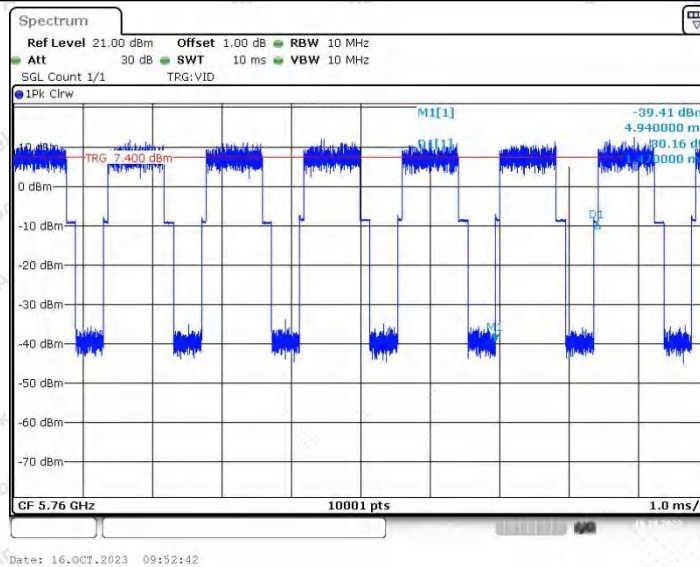


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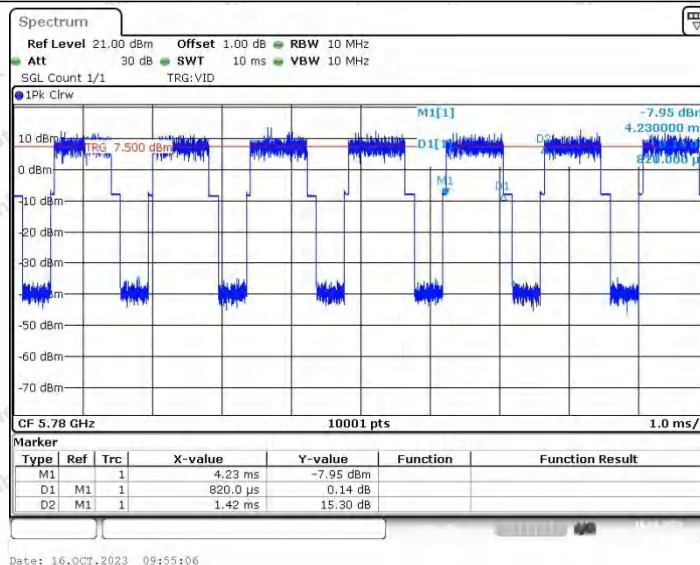




11A_Ant2_5760



11A_Ant1_5780



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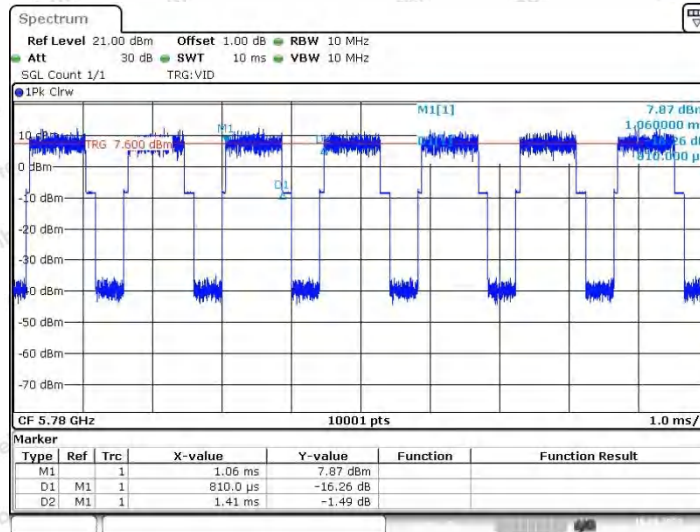
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



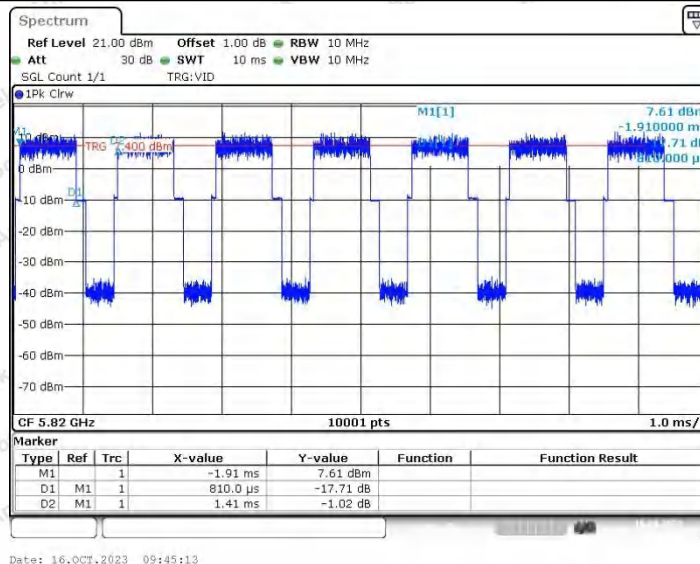
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11A_Ant2_5780



11A_Ant1_5820



11A_Ant2_5820

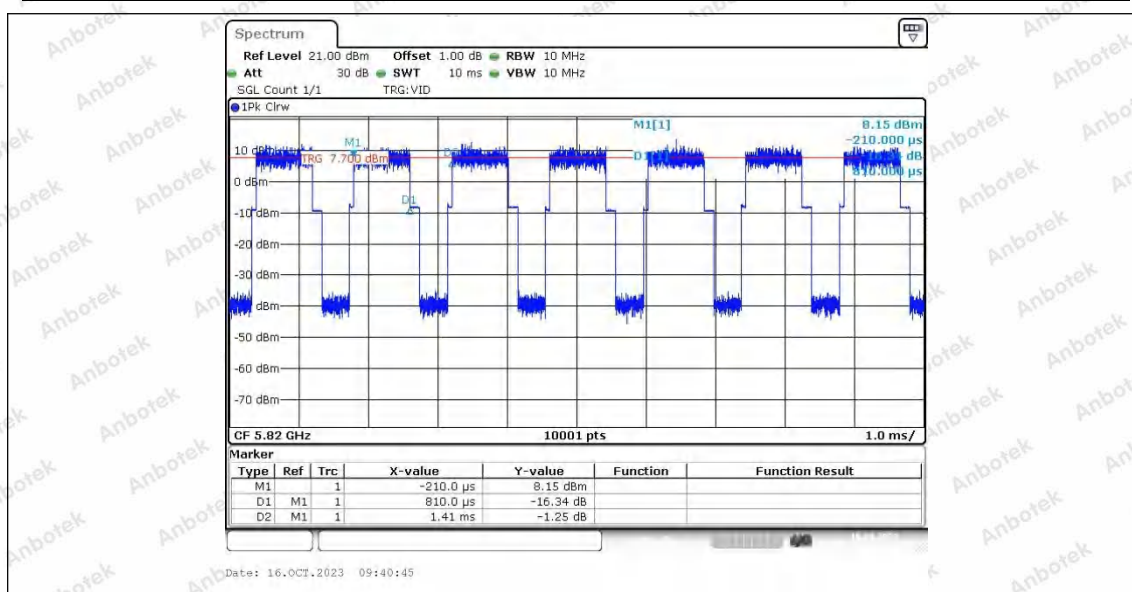
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Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
10M	Ant1	5740	---	13.12	73.09	1.36	14.48	≤30.00
	Ant2	5740	---	13.18	72.97	1.37	14.55	≤30.00
	Ant1	5780	---	12.95	73.09	1.36	14.31	≤30.00
	Ant2	5780	---	13.01	72.97	1.37	14.38	≤30.00
	Ant1	5820	---	12.89	73.09	1.36	14.25	≤30.00
	Ant2	5820	---	12.97	72.97	1.37	14.34	≤30.00
20M	Ant1	5740	---	13.46	72.97	1.37	14.83	≤30.00
	Ant2	5740	---	13.60	73.09	1.36	14.96	≤30.00
	Ant1	5780	---	13.42	73.09	1.36	14.78	≤30.00
	Ant2	5780	---	13.62	72.97	1.37	14.99	≤30.00
	Ant1	5820	---	13.45	72.97	1.37	14.82	≤30.00
	Ant2	5820	---	13.56	73.09	1.36	14.92	≤30.00
40M	Ant1	5760	---	13.29	55.10	2.59	15.88	≤30.00
	Ant2	5760	---	13.30	55.10	2.59	15.89	≤30.00
	Ant1	5780	---	13.20	57.75	2.38	15.58	≤30.00
	Ant2	5780	---	13.22	57.45	2.41	15.63	≤30.00
	Ant1	5820	---	13.20	57.45	2.41	15.61	≤30.00
	Ant2	5820	---	13.47	57.45	2.41	15.88	≤30.00

Note: The Duty Cycle Factor is compensated in the graph.

MIMO

TestMode	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
10M	5740	17.53	≤29.46	PASS
	5780	17.36	≤29.46	PASS
	5820	17.31	≤29.46	PASS
20M	5740	17.91	≤29.46	PASS
	5780	17.90	≤29.46	PASS
	5820	17.88	≤29.46	PASS
40M	5760	18.90	≤29.46	PASS
	5780	18.62	≤29.46	PASS
	5820	18.76	≤29.46	PASS

Note:

1. As Directional gain = $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$ dBi = 6.54 > 6dBi,
so limit = $30 - (6.06 - 6.00) = 29.46$ dBm.

2. MIMO = $10 * \log(10^{ANT1/10} + 10^{ANT2/10})$

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
10M	Ant1	5740	-3.52	≤30.00	PASS
	Ant2	5740	-2.81	≤30.00	PASS
	Ant1	5780	-2.64	≤30.00	PASS
	Ant2	5780	-1.95	≤30.00	PASS
	Ant1	5820	-2.45	≤30.00	PASS
	Ant2	5820	-2.54	≤30.00	PASS
20M	Ant1	5740	-7.82	≤30.00	PASS
	Ant2	5740	-5.73	≤30.00	PASS
	Ant1	5780	-7.12	≤30.00	PASS
	Ant2	5780	-4.35	≤30.00	PASS
	Ant1	5820	-7.31	≤30.00	PASS
	Ant2	5820	-5.37	≤30.00	PASS
40M	Ant1	5760	-4.58	≤30.00	PASS
	Ant2	5760	-3.89	≤30.00	PASS
	Ant1	5780	-6.6	≤30.00	PASS
	Ant2	5780	-4.76	≤30.00	PASS
	Ant1	5820	-7.17	≤30.00	PASS
	Ant2	5820	-4.92	≤30.00	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

MIMO

TestMode	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
10M	5740	-0.14	≤29.46	PASS
	5780	0.73	≤29.46	PASS
	5820	0.52	≤29.46	PASS
20M	5740	-3.64	≤29.46	PASS
	5780	-2.51	≤29.46	PASS
	5820	-3.22	≤29.46	PASS
40M	5760	-1.21	≤29.46	PASS
	5780	-2.57	≤29.46	PASS
	5820	-2.89	≤29.46	PASS

Note:

1. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.54>6dBi,
so limit=30-(6.06-6.00)=29.46dBm.

2. MIMO= $10 * \log(10^{ANT1/10} + 10^{ANT2/10})$

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Test Graphs



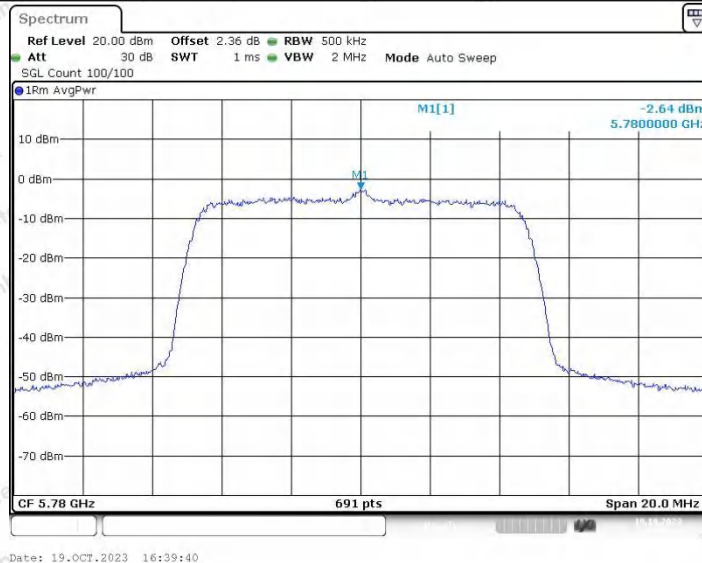
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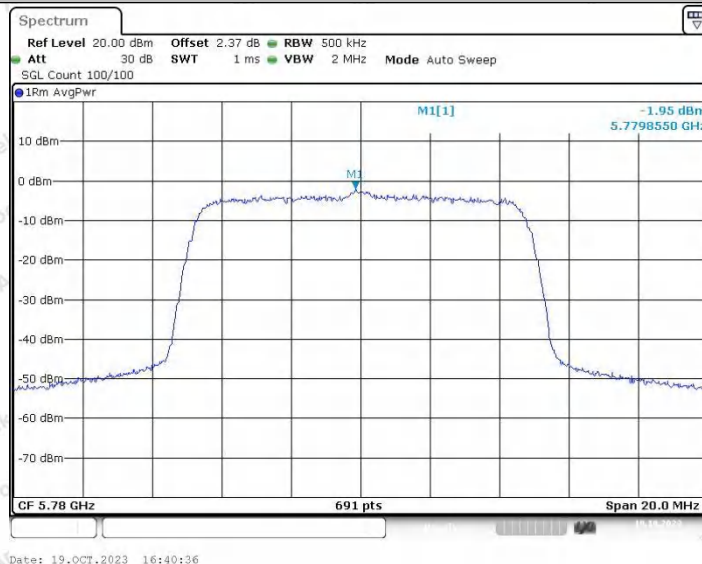


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10M_Ant2_5780



10M_Ant1_5820

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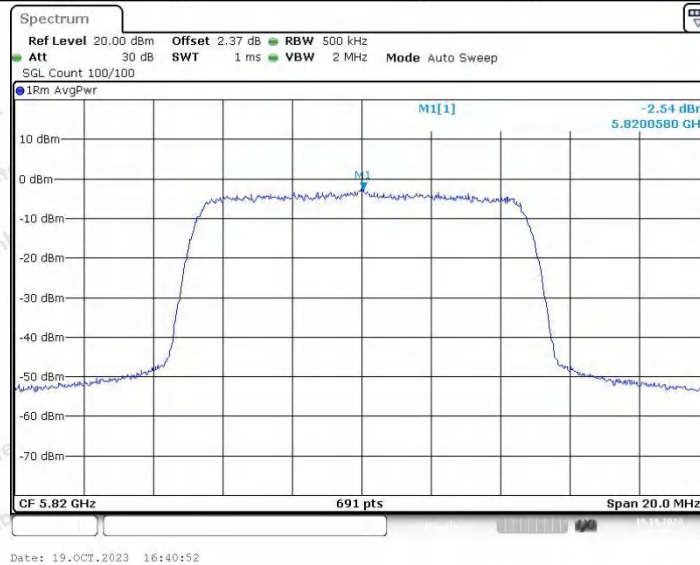
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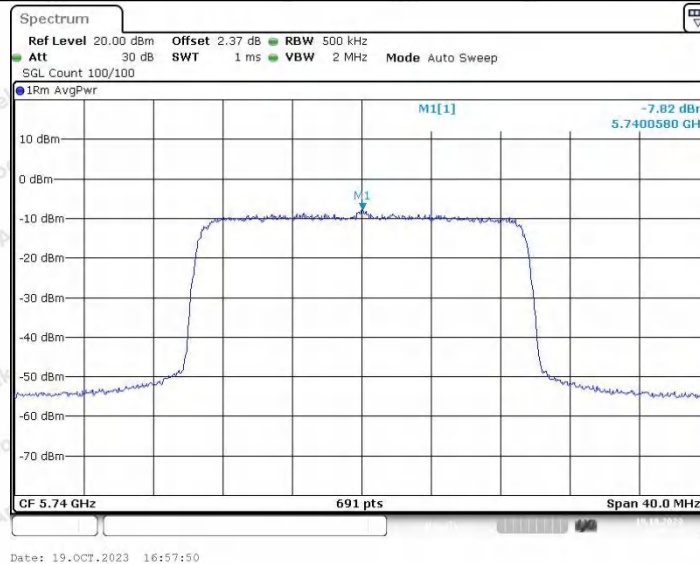
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10M_Ant2_5820



20M_Ant1_5740



20M_Ant2_5740

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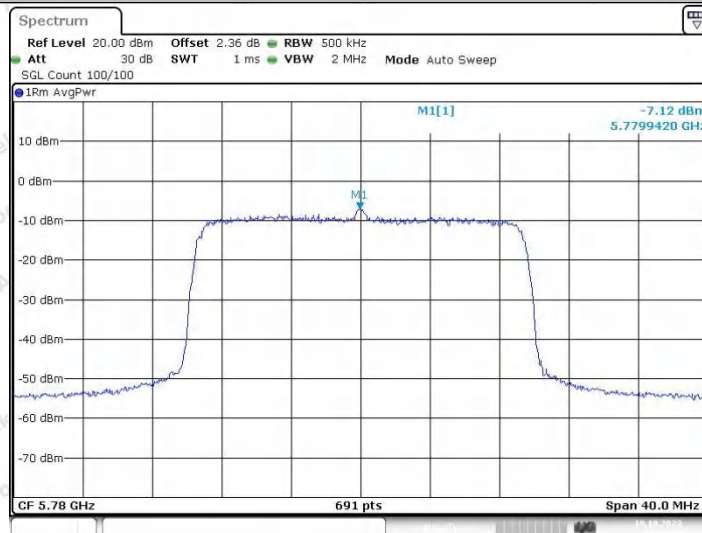
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Date: 19.OCT.2023 16:59:12

20M_Ant1_5780



Date: 19.OCT.2023 16:58:04

20M_Ant2_5780



Date: 19.OCT.2023 16:59:51

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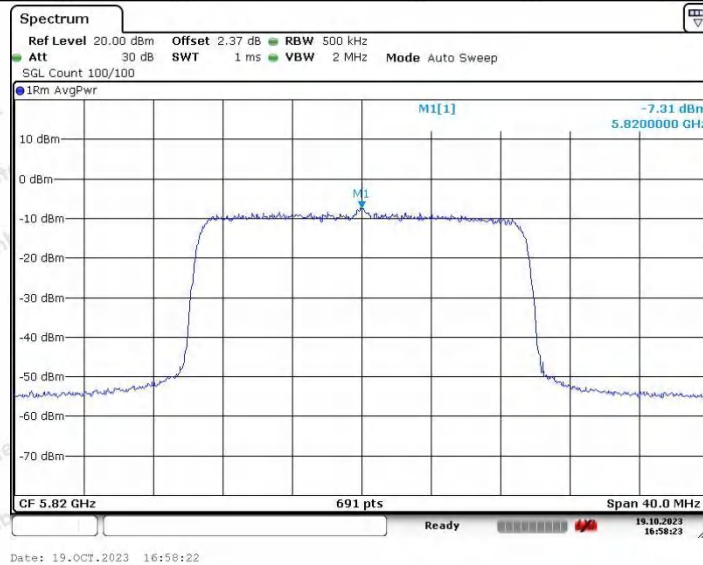
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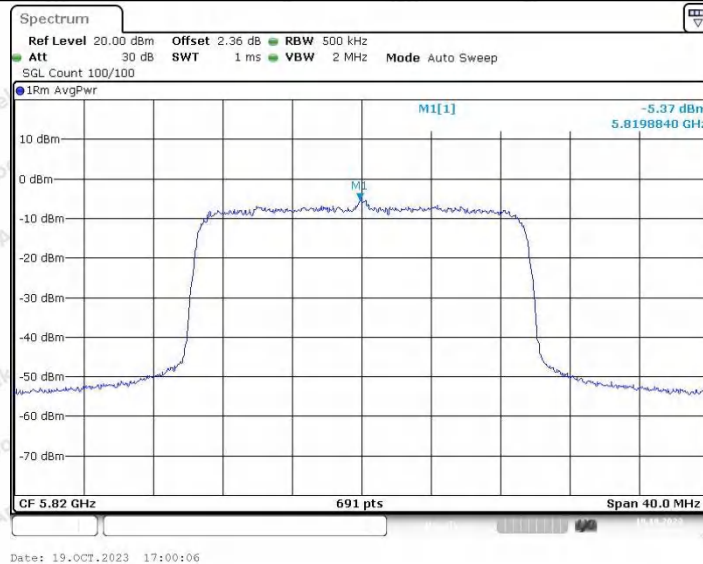
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20M_Ant1_5820



20M_Ant2_5820



40M_Ant1_5760

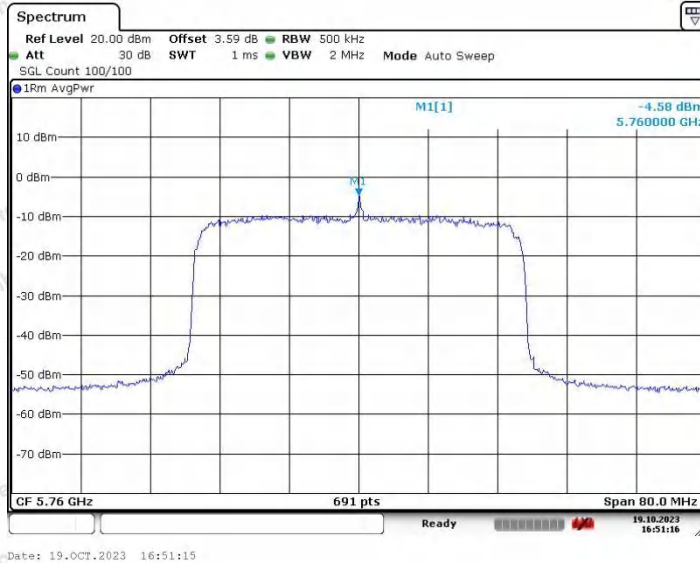
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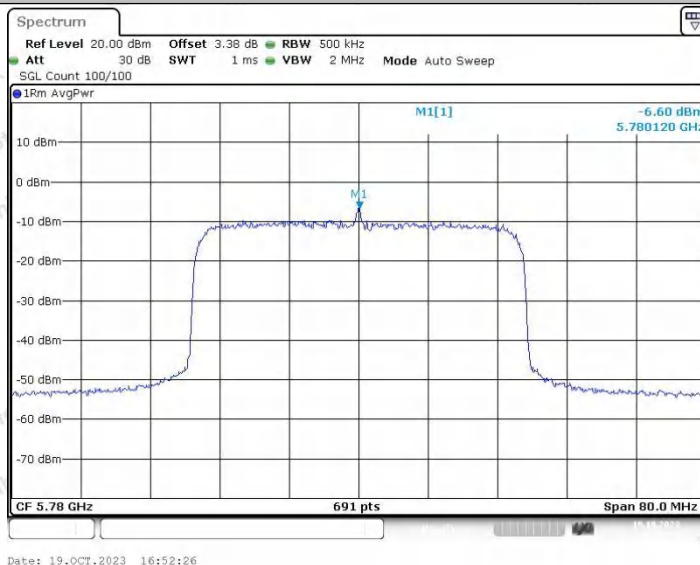




40M_Ant2_5760



40M_Ant1_5780

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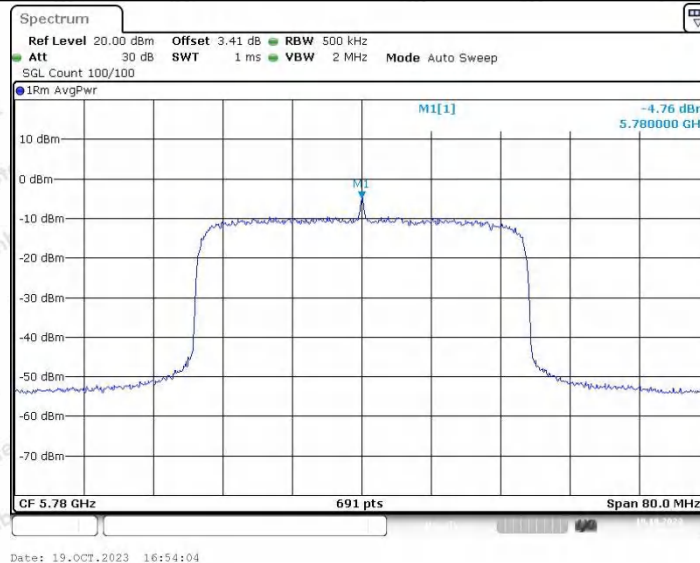
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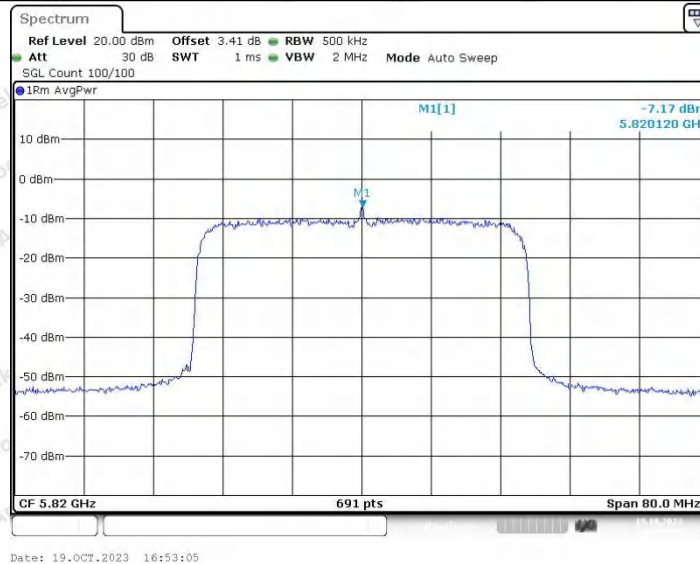
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40M_Ant2_5780



40M_Ant1_5820



40M_Ant2_5820

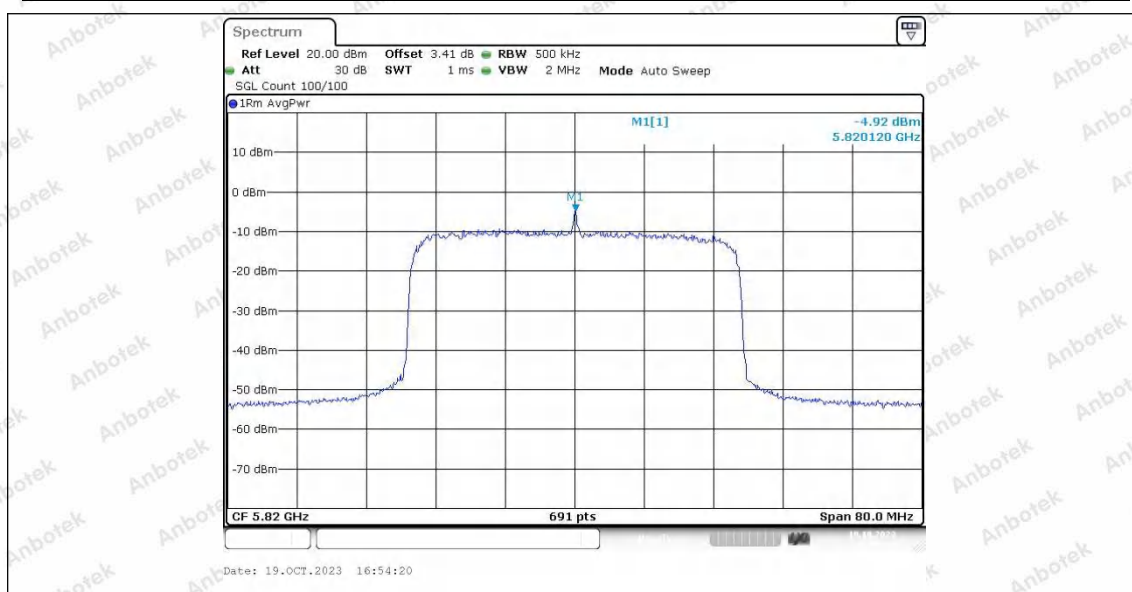
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
10M	Ant1	Low	5740	5650~5700	-53.49	≤8.07	PASS
				5700~5720	-53.71	≤14.71	PASS
				5720~5725	-53.95	≤19.56	PASS
				5760~5650	-53.6	≤-27	PASS
	Ant2	Low	5740	5650~5700	-53.41	≤2.49	PASS
				5700~5720	-53.54	≤15.03	PASS
				5720~5725	-53.73	≤17.58	PASS
				5760~5650	-53.97	≤-27	PASS
	Ant1	High	5820	5850~5855	-53.57	≤25.18	PASS
				5855~5875	-52.62	≤14.40	PASS
				5875~5925	-53.57	≤-23.73	PASS
				5925~6000	-54.29	≤-27	PASS
	Ant2	High	5820	5850~5855	-54.41	≤15.93	PASS
				5855~5875	-53.24	≤10.18	PASS
				5875~5925	-53.49	≤9.52	PASS
				5925~6000	-54.53	≤-27	PASS
20M	Ant1	Low	5740	5650~5700	-53.35	≤-12.74	PASS
				5700~5720	-52.67	≤10.81	PASS
				5720~5725	-52.1	≤22.87	PASS
				5760~5650	-53.05	≤-27	PASS
	Ant2	Low	5740	5650~5700	-53.35	≤-5.01	PASS
				5700~5720	-53.31	≤12.52	PASS
				5720~5725	-52.45	≤26.84	PASS
				5760~5650	-52.5	≤-27	PASS
	Ant1	High	5820	5850~5855	-53.91	≤25.18	PASS
				5855~5875	-53.36	≤13.67	PASS
				5875~5925	-53.96	≤7.16	PASS
				5925~6000	-53.41	≤-27	PASS
	Ant2	High	5820	5850~5855	-52.81	≤19.23	PASS
				5855~5875	-52.51	≤12.54	PASS
				5875~5925	-53.09	≤-17.94	PASS
				5925~6000	-53.26	≤-27	PASS
40M	Ant1	Low	5760	5650~5700	-53.28	≤-3.94	PASS
				5700~5720	-53.6	≤15.03	PASS
				5720~5725	-52.79	≤17.58	PASS
				5800~5650	-52.89	≤-27	PASS
	Ant2	Low	5760	5650~5700	-52.79	≤-3.08	PASS

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				5700~5720	-52.9	≤ 14.14	PASS
				5720~5725	-52.72	≤ 22.21	PASS
				5800~5650	-52.99	≤ -27	PASS
	Ant1	High	5820	5850~5855	-53.99	≤ 21.88	PASS
				5855~5875	-53.31	≤ 12.37	PASS
				5875~5925	-52.54	≤ 0.08	PASS
				5925~5980	-53.93	≤ -27	PASS
	Ant2	High	5820	5850~5855	-52.3	≤ 22.54	PASS
				5855~5875	-51.82	≤ 12.94	PASS
				5875~5925	-53.31	≤ -15.36	PASS
				5925~5980	-53.28	≤ -27	PASS

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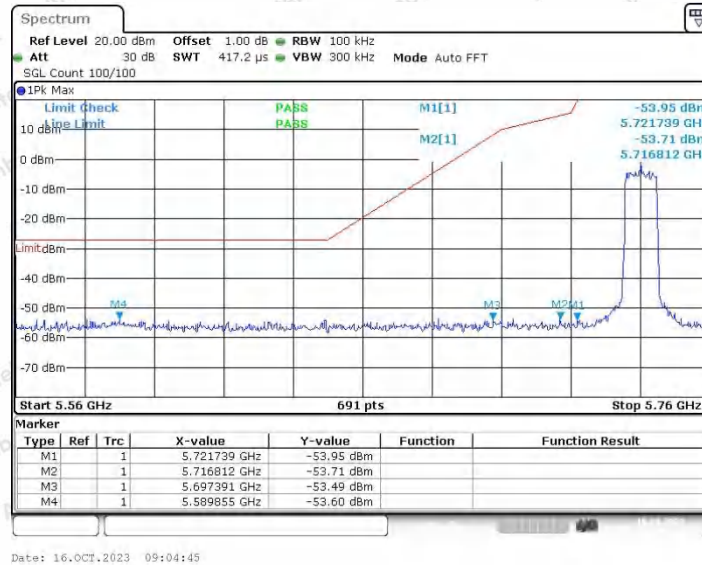


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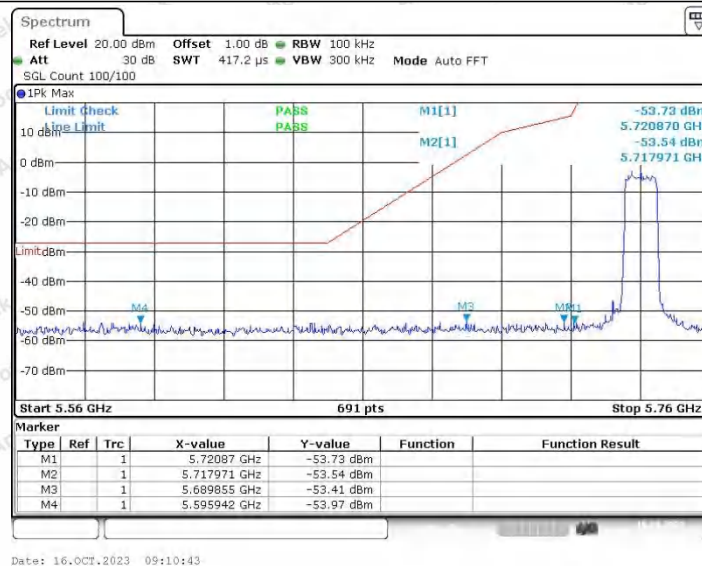


Test Graphs

10M_Ant1_Low_5740



10M_Ant2_Low_5740



10M_Ant1_High_5820

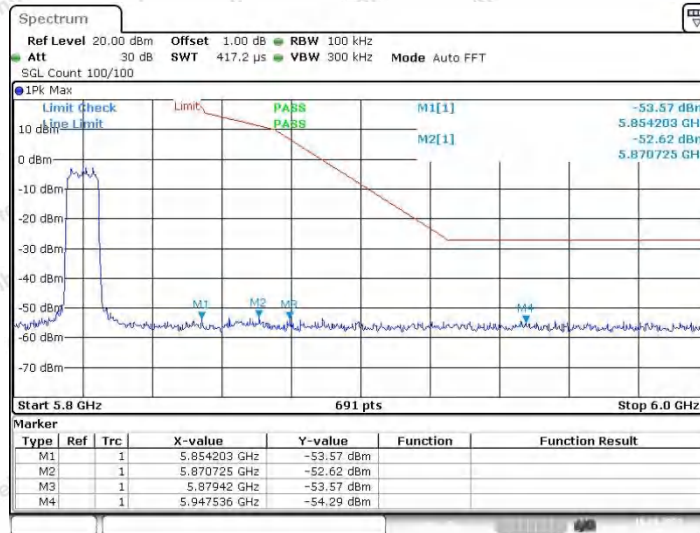
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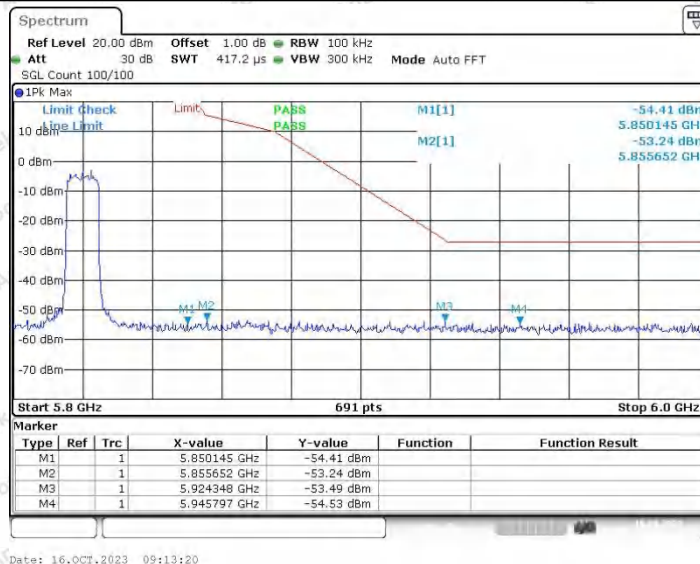


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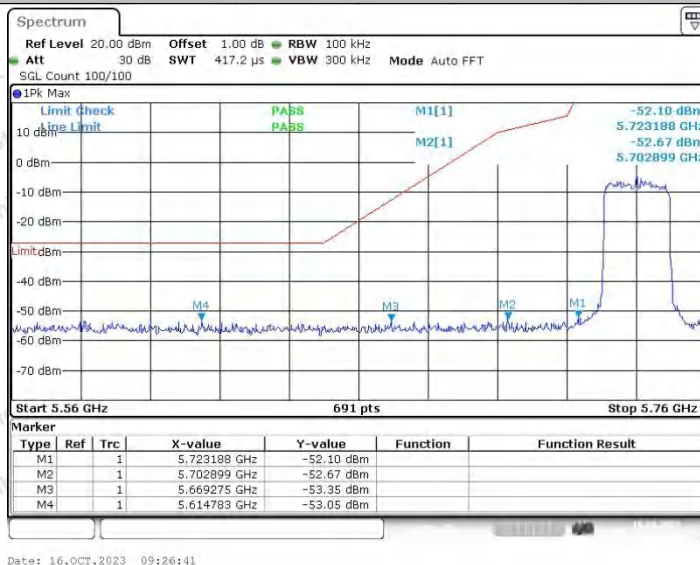




10M_Ant2_High_5820



20M_Ant1_Low_5740



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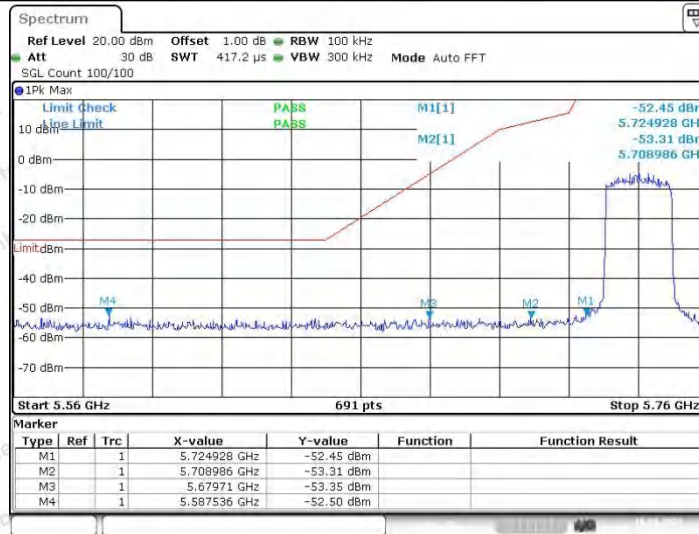
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



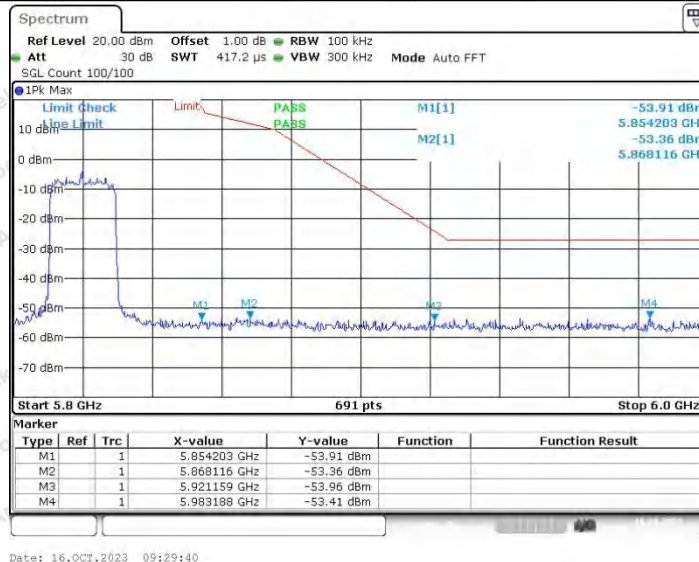
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20M_Ant2_Low_5740



20M_Ant1_High_5820



20M_Ant2_High_5820

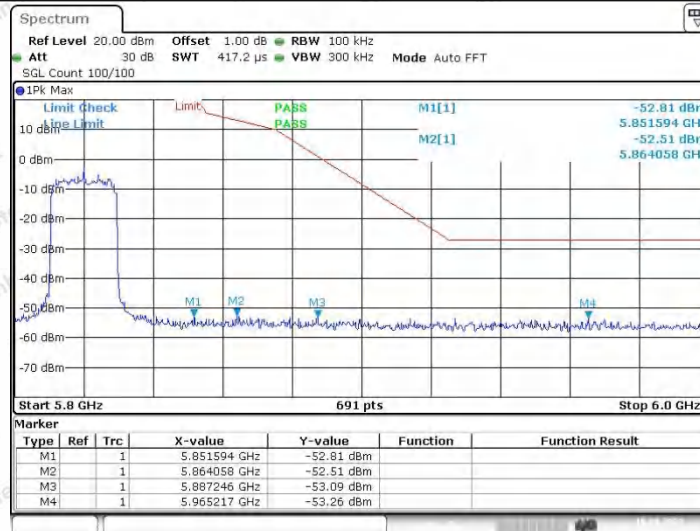
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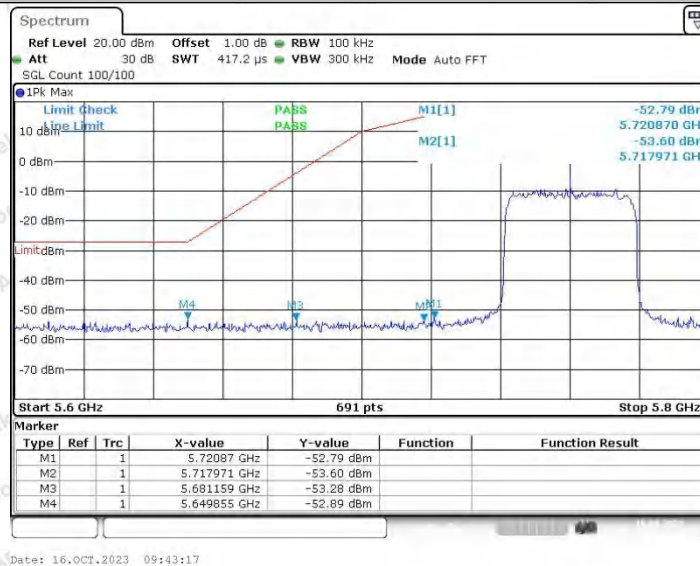


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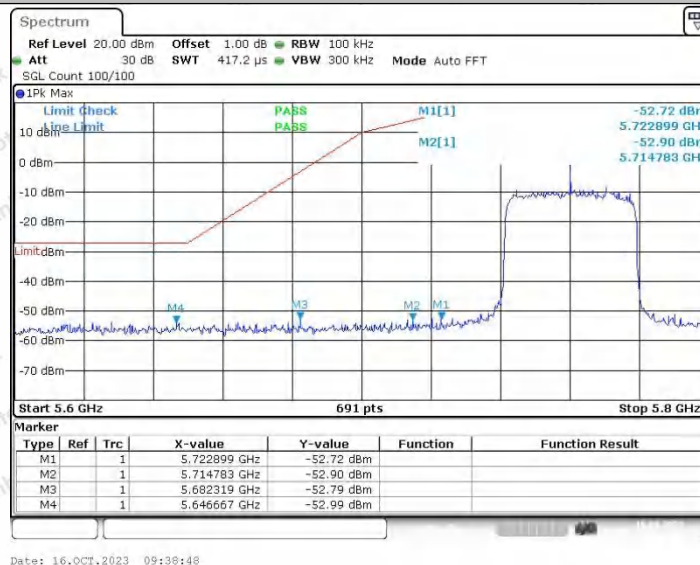




40M_Ant1_Low_5760



40M_Ant2_Low_5760



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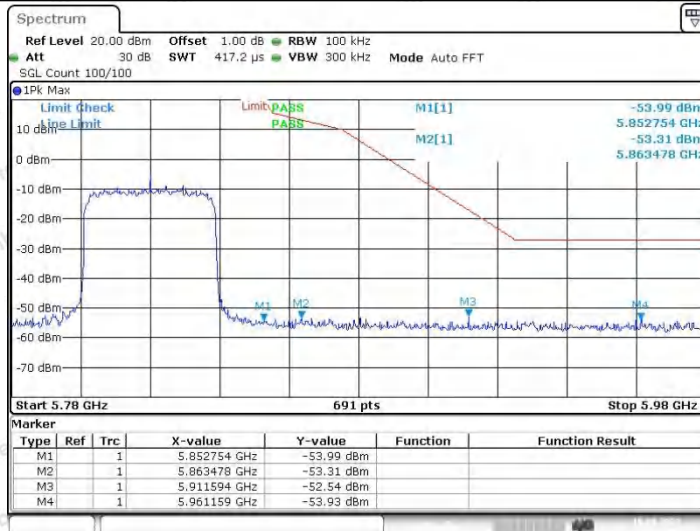
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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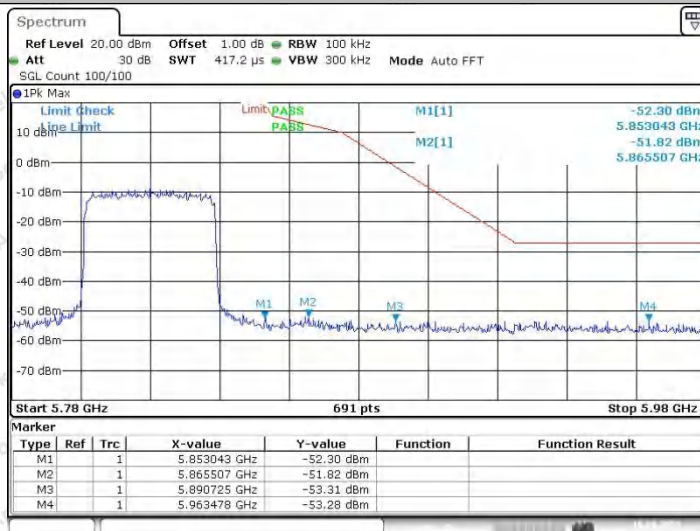


40M_Ant1_High_5820



Date: 16.OCT.2023 09:45:51

40M_Ant2_High_5820



Date: 16.OCT.2023 09:41:23

---End---

