

Appendix Test Data

Report No.:	18220WC30201902	Test Sample No.:	1-2-2
Start Test Date:	2023.10.09	Finish Test Date:	2023.10.16
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	49.2%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

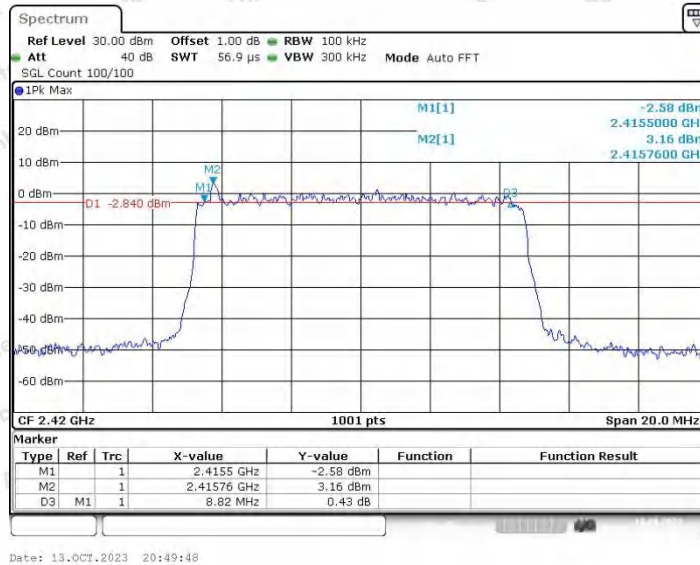
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	2420	8.82	2415.50	2424.32	0.5	PASS
	Ant2	2420	9.08	2415.46	2424.54	0.5	PASS
	Ant1	2440	8.76	2435.58	2444.34	0.5	PASS
	Ant2	2440	9.00	2435.44	2444.44	0.5	PASS
	Ant1	2460	9.08	2455.46	2464.54	0.5	PASS
	Ant2	2460	9.28	2455.40	2464.68	0.5	PASS
20M	Ant1	2420	18.36	2410.88	2429.24	0.5	PASS
	Ant2	2420	18.64	2410.64	2429.28	0.5	PASS
	Ant1	2440	18.28	2430.88	2449.16	0.5	PASS
	Ant2	2440	18.04	2430.96	2449.00	0.5	PASS
	Ant1	2460	18.56	2450.72	2469.28	0.5	PASS
	Ant2	2460	18.00	2450.96	2468.96	0.5	PASS
40M	Ant1	2420	35.76	2402.06	2437.82	0.5	PASS
	Ant2	2420	36.42	2401.70	2438.12	0.5	PASS
	Ant1	2440	36.06	2421.94	2458.00	0.5	PASS
	Ant2	2440	34.98	2422.30	2457.28	0.5	PASS
	Ant1	2460	36.00	2442.06	2478.06	0.5	PASS
	Ant2	2460	35.82	2442.36	2478.18	0.5	PASS

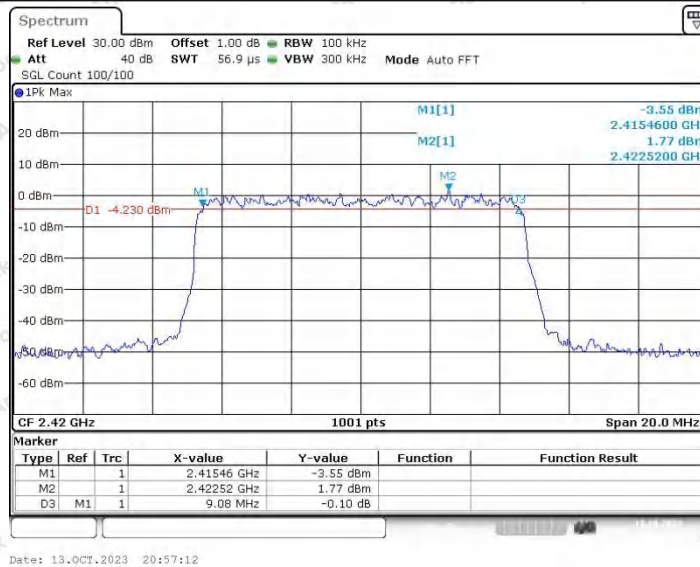


Test Graphs

10M_Ant1_2420



10M_Ant2_2420



10M_Ant1_2440

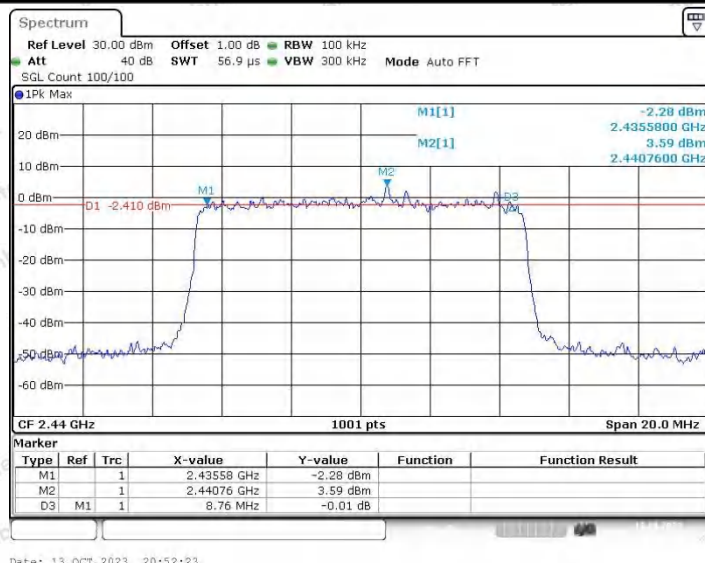
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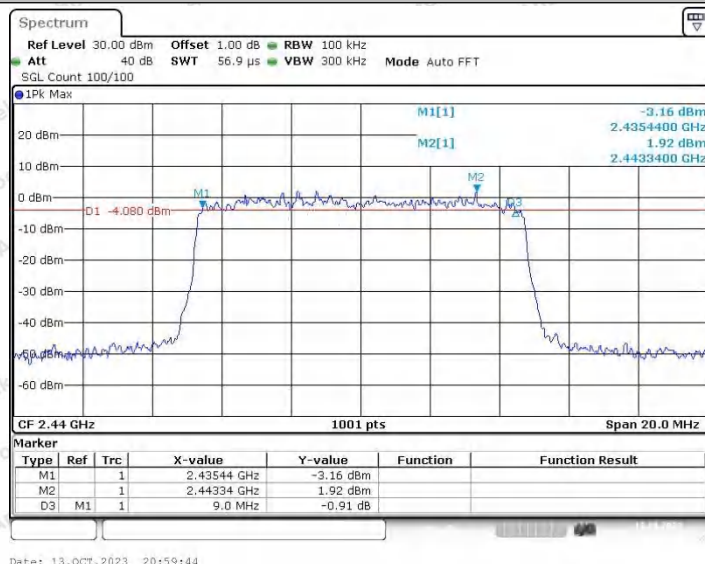


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10M_Ant2_2440



10M_Ant1_2460

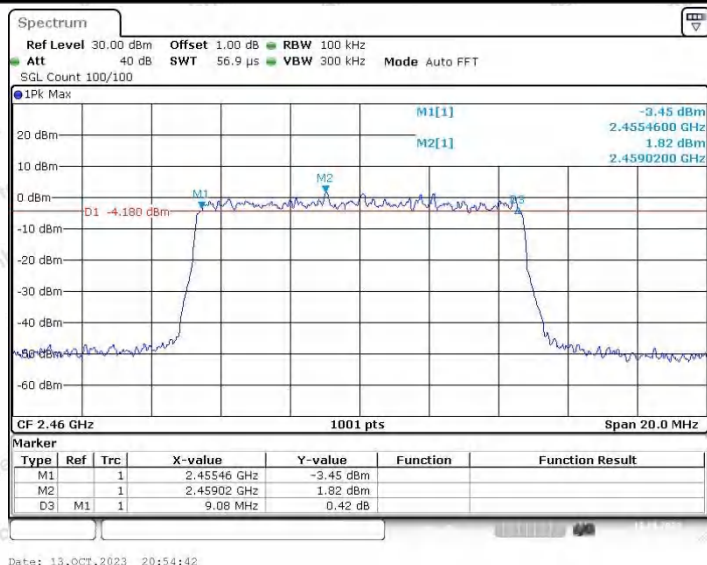
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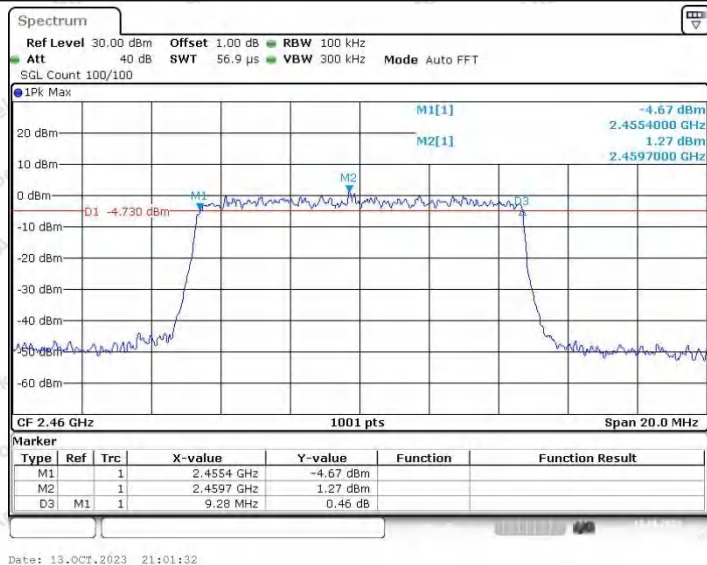


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10M_Ant2_2460



20M_Ant1_2420

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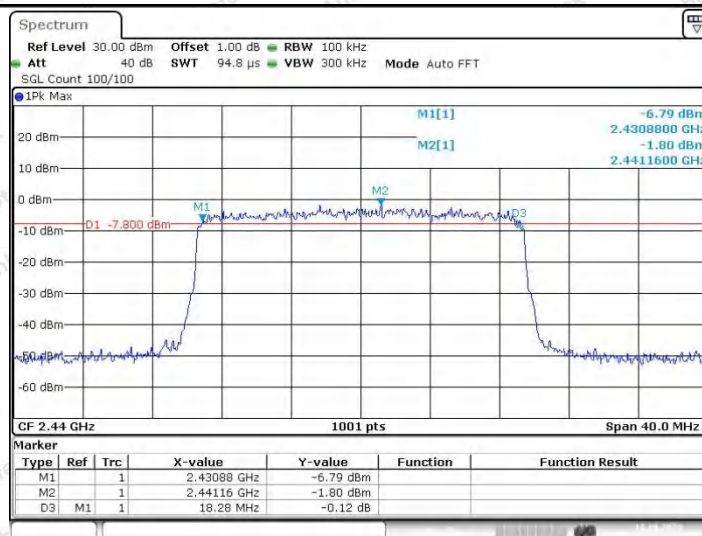
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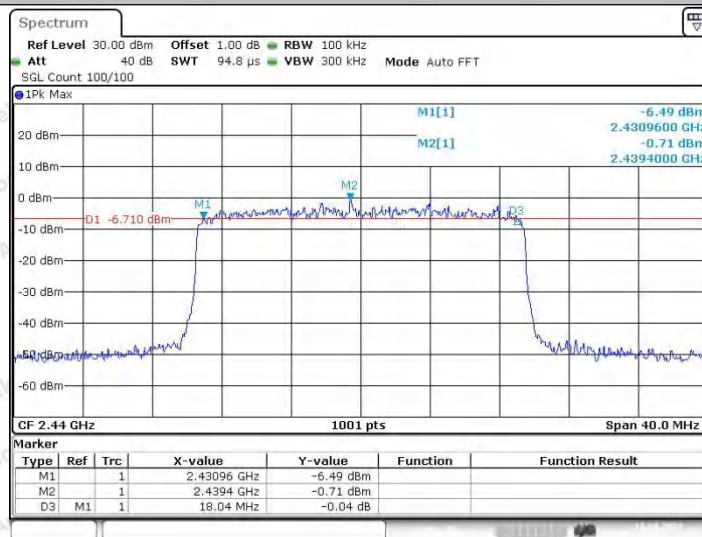


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20M_Ant2_2440



20M_Ant1_2460

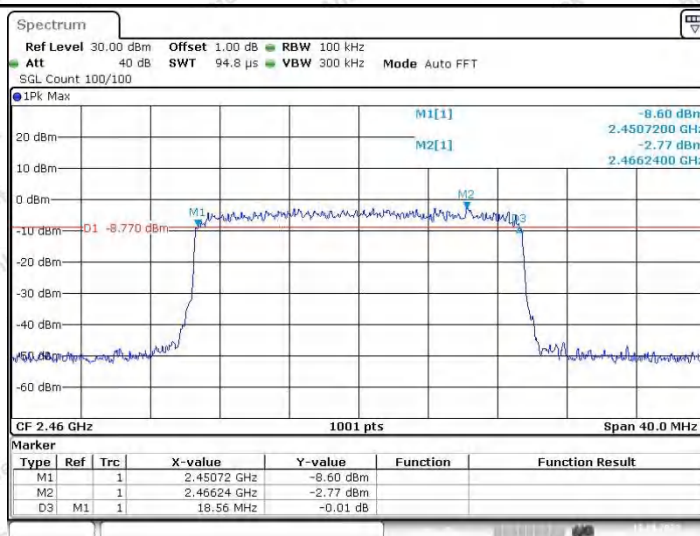
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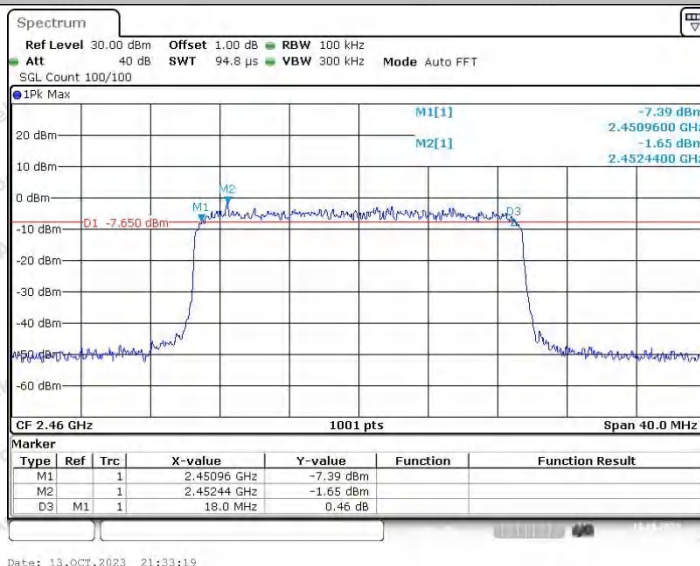


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20M_Ant2_2460



40M_Ant1_2420

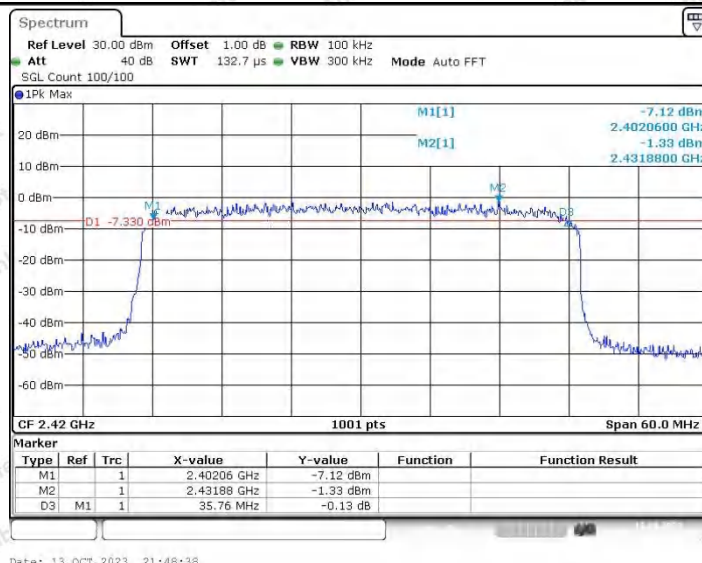
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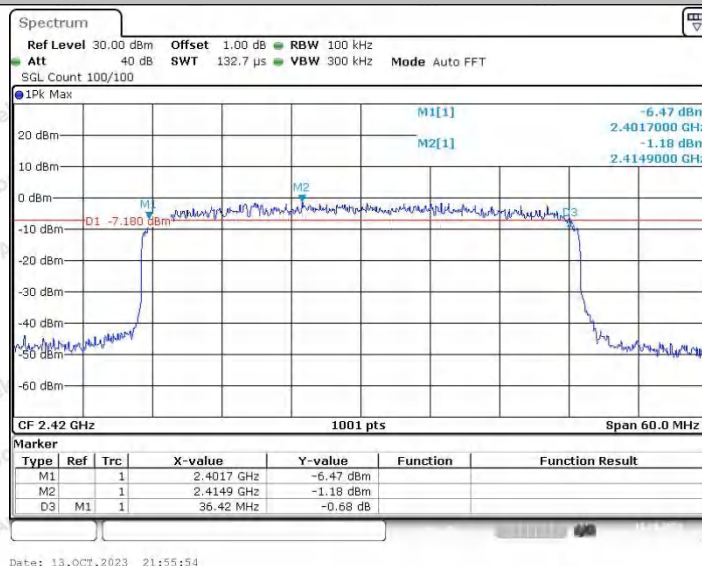


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40M_Ant2_2420



40M_Ant1_2440

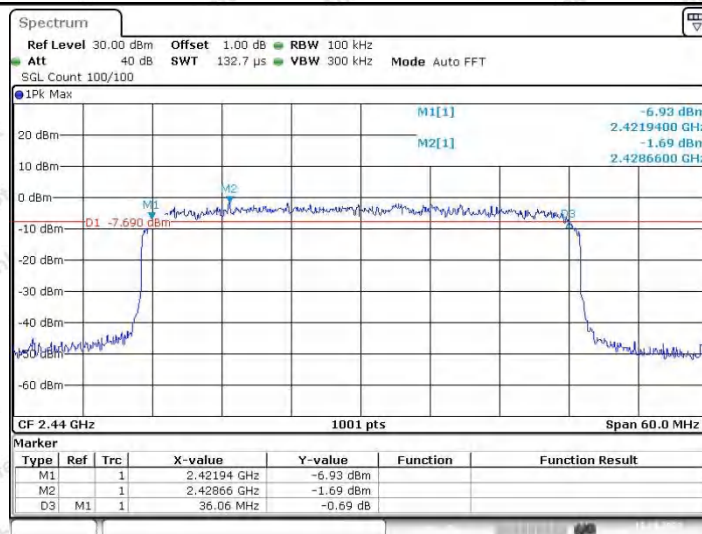
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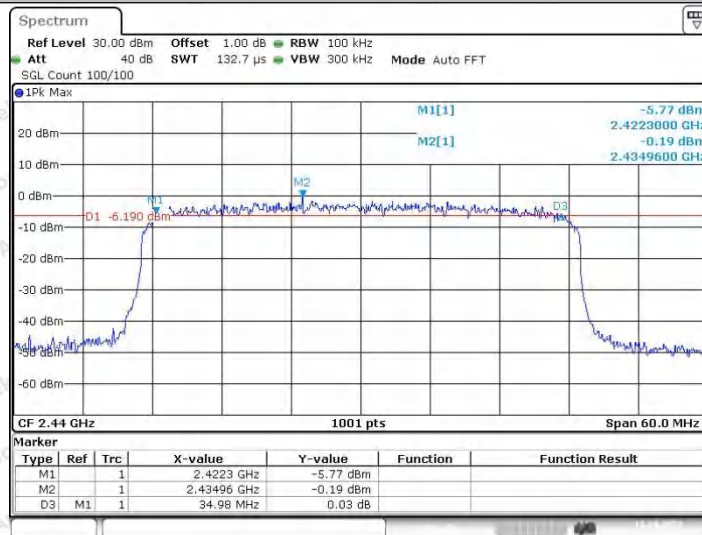


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40M_Ant2_2440



40M_Ant1_2460

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Appendix B: Occupied Channel Bandwidth

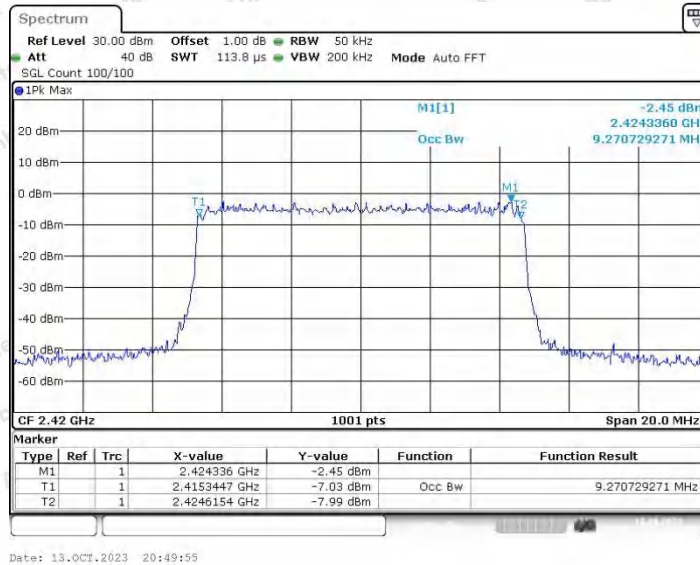
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
10M	Ant1	2420	9.271	2415.3447	2424.6154
	Ant2	2420	9.271	2415.3646	2424.6354
	Ant1	2440	9.311	2435.3447	2444.6553
	Ant2	2440	9.311	2435.3447	2444.6553
	Ant1	2460	9.271	2455.3646	2464.6354
	Ant2	2460	9.291	2455.3447	2464.6354
20M	Ant1	2420	18.581	2410.6893	2429.2707
	Ant2	2420	18.501	2410.7692	2429.2707
	Ant1	2440	18.541	2430.7293	2449.2707
	Ant2	2440	18.501	2430.7293	2449.2308
	Ant1	2460	18.462	2450.7692	2469.2308
	Ant2	2460	18.501	2450.7293	2469.2308
40M	Ant1	2420	36.623	2401.6583	2438.2817
	Ant2	2420	36.444	2401.7782	2438.2218
	Ant1	2440	36.444	2421.7183	2458.1618
	Ant2	2440	36.444	2421.7183	2458.1618
	Ant1	2460	36.503	2441.6583	2478.1618
	Ant2	2460	36.444	2441.7782	2478.2218

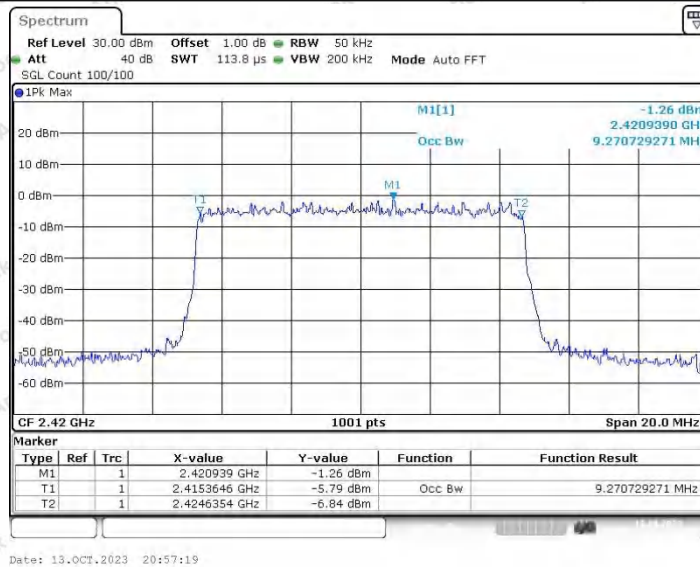


Test Graphs

10M_Ant1_2420

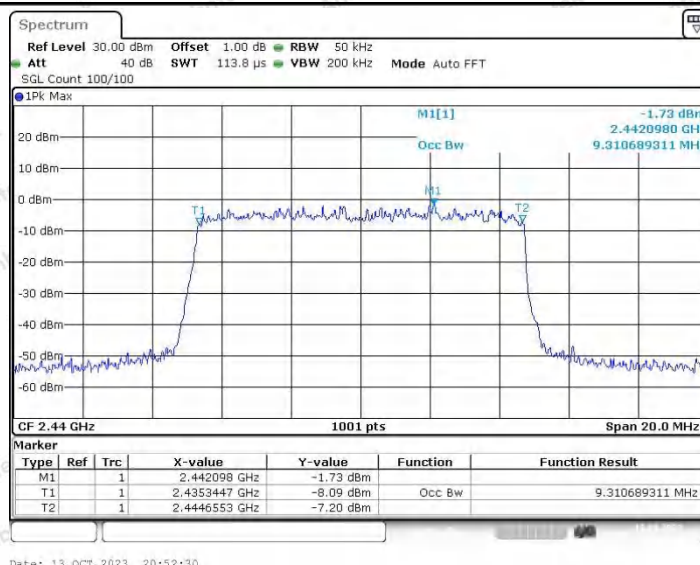


10M_Ant2_2420

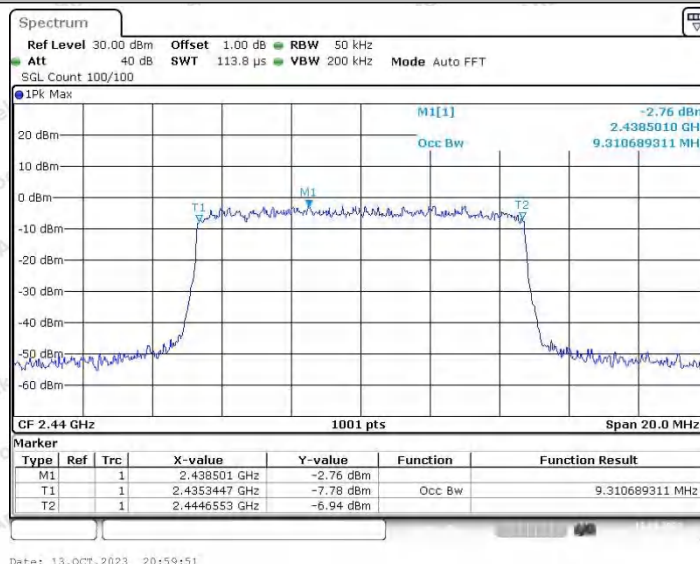


10M_Ant1_2440





10M_Ant2_2440



10M_Ant1_2460

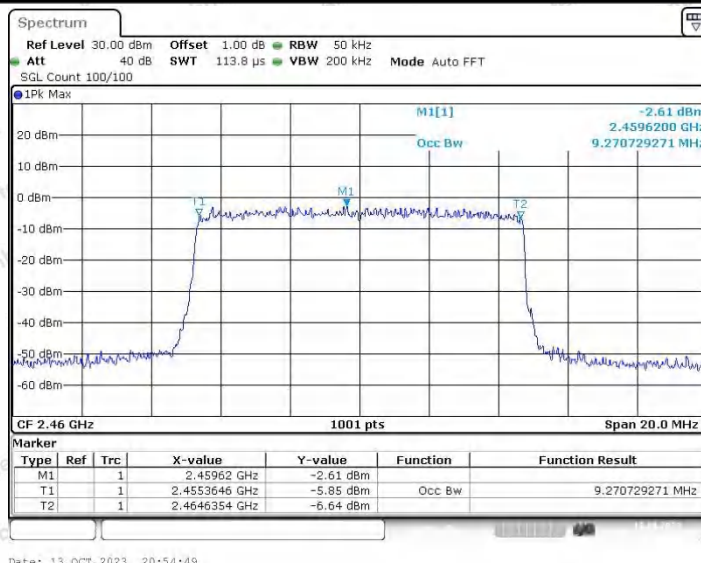
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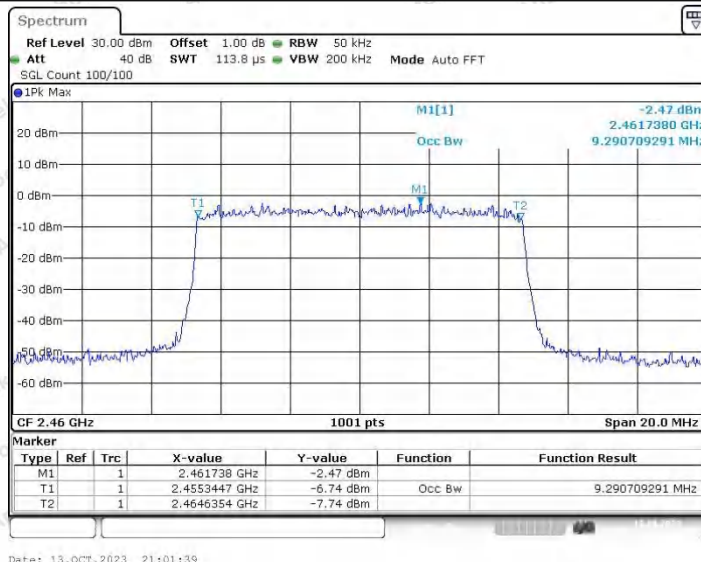


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10M_Ant2_2460



20M_Ant1_2420

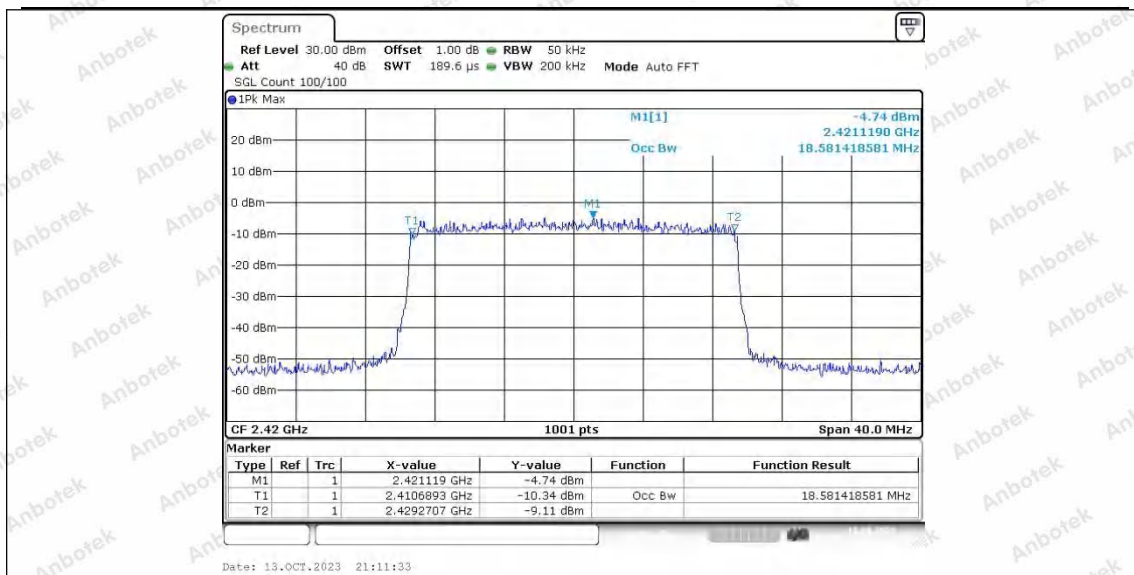
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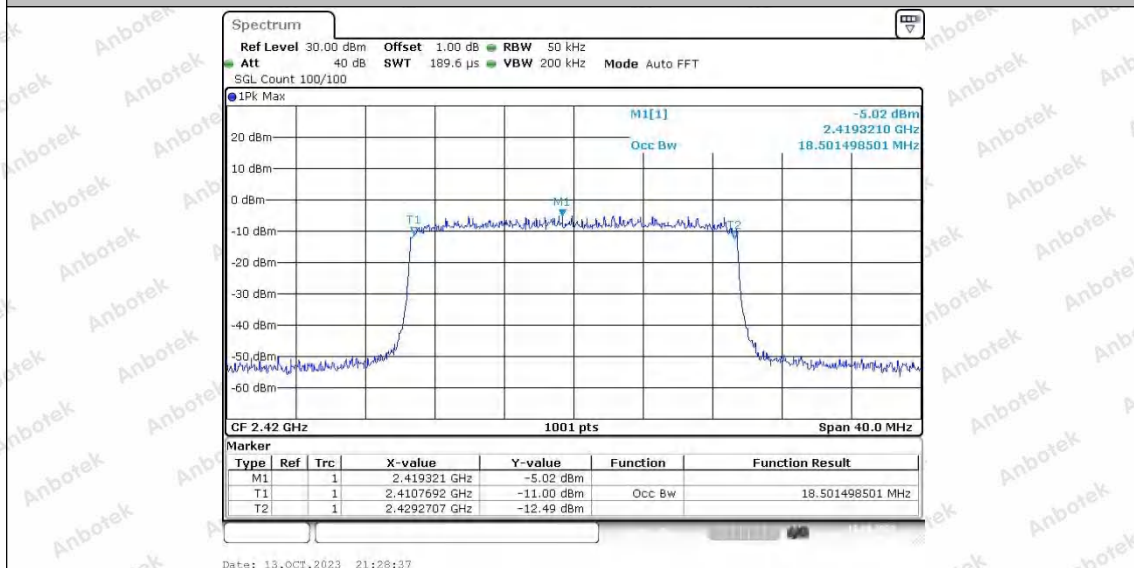


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20M_Ant2_2420



20M_Ant1_2440

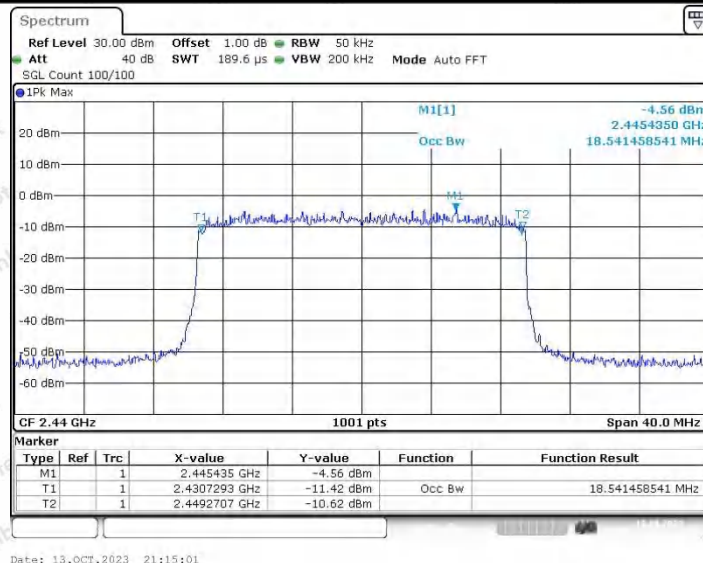
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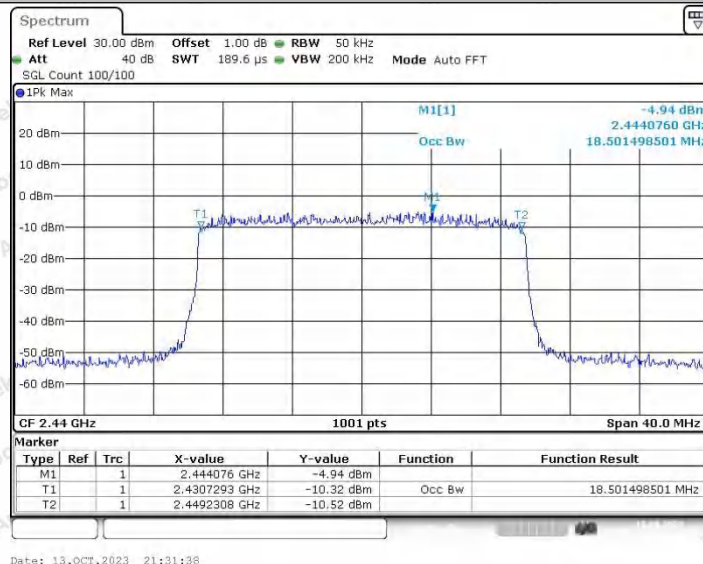


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20M_Ant2_2440



20M_Ant1_2460

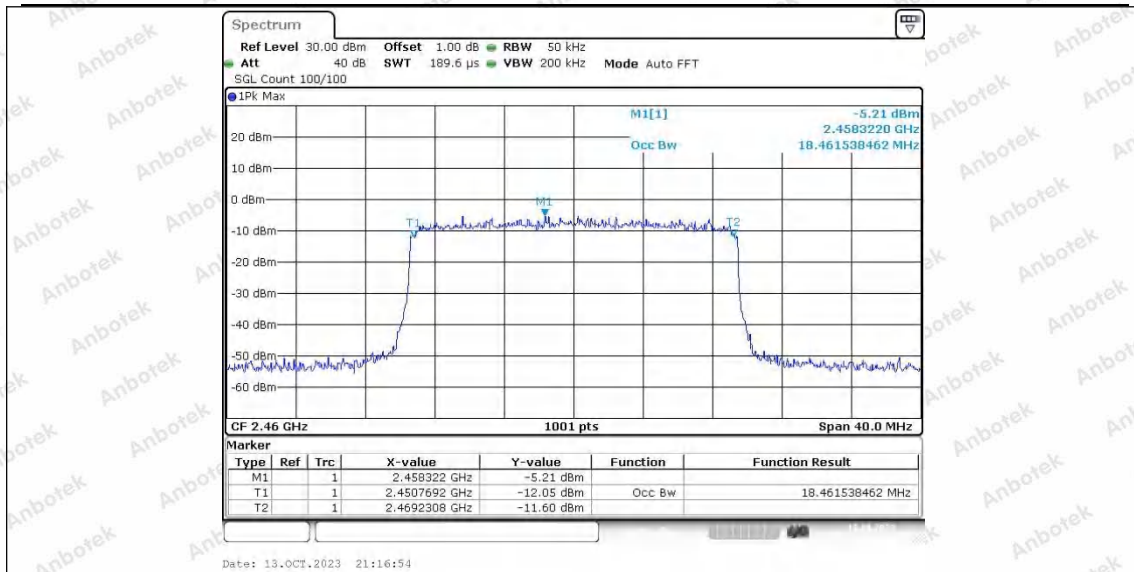
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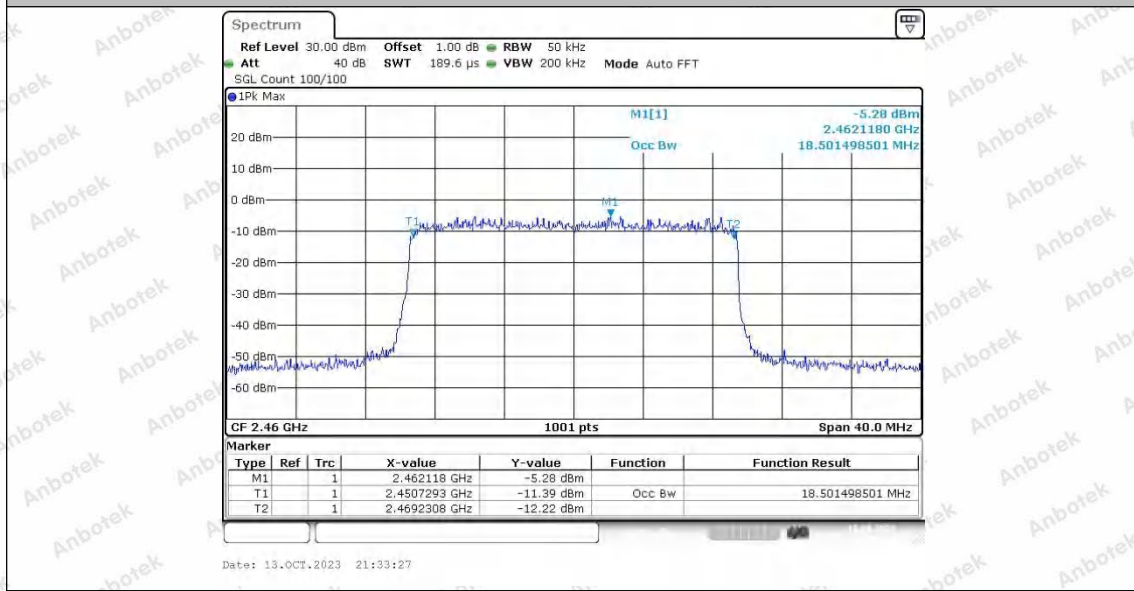


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20M_Ant2_2460



40M_Ant1_2420

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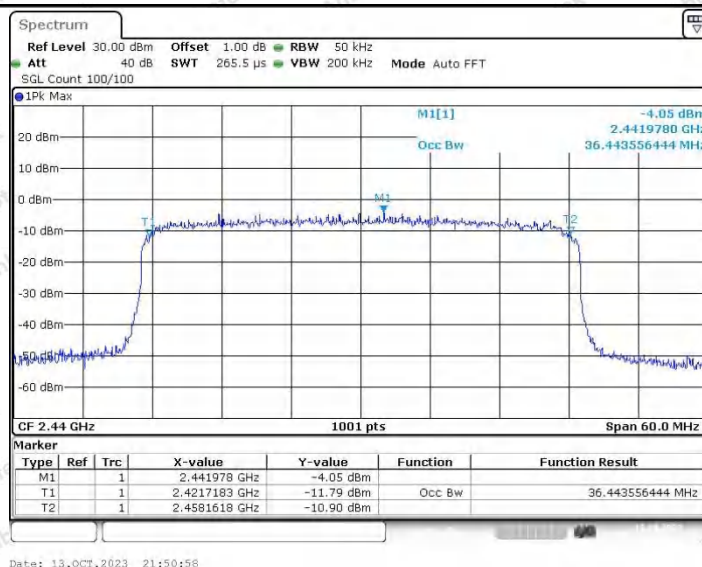
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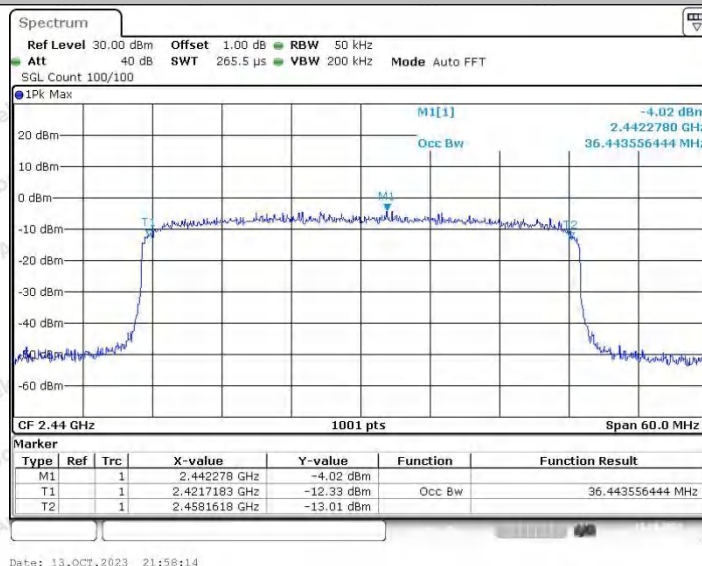


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40M_Ant2_2440



40M_Ant1_2460





Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
10M	Ant1	2420	16.27	≤30	PASS
	Ant2	2420	16.42	≤30	PASS
	Ant1	2440	16.51	≤30	PASS
	Ant2	2440	16.38	≤30	PASS
	Ant1	2460	17.19	≤30	PASS
	Ant2	2460	16.22	≤30	PASS
20M	Ant1	2420	13.71	≤30	PASS
	Ant2	2420	12.99	≤30	PASS
	Ant1	2440	13.33	≤30	PASS
	Ant2	2440	12.77	≤30	PASS
	Ant1	2460	13.10	≤30	PASS
	Ant2	2460	12.86	≤30	PASS
40M	Ant1	2420	14.85	≤30	PASS
	Ant2	2420	14.39	≤30	PASS
	Ant1	2440	14.53	≤30	PASS
	Ant2	2440	14.29	≤30	PASS
	Ant1	2460	14.32	≤30	PASS
	Ant2	2460	13.77	≤30	PASS

MIMO

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
10M	2420	19.36	≤29.41	PASS
	2440	19.46	≤29.41	PASS
	2460	19.74	≤29.41	PASS
20M	2420	16.38	≤29.41	PASS
	2440	16.07	≤29.41	PASS
	2460	15.99	≤29.41	PASS
40M	2420	17.64	≤29.41	PASS
	2440	17.42	≤29.41	PASS
	2460	17.06	≤29.41	PASS

Note:

1. As Directional gain = $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$ dBi=6.59>6dBi,
so limit=30-(6.59-6.00)=29.41dBm.

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



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
10M	Ant1	2420	-14.73	≤8.00	PASS
	Ant2	2420	-14.47	≤8.00	PASS
	Ant1	2440	-14.86	≤8.00	PASS
	Ant2	2440	-14.98	≤8.00	PASS
	Ant1	2460	-14.89	≤8.00	PASS
	Ant2	2460	-15.22	≤8.00	PASS
20M	Ant1	2420	-17.45	≤8.00	PASS
	Ant2	2420	-17.42	≤8.00	PASS
	Ant1	2440	-17.87	≤8.00	PASS
	Ant2	2440	-17.86	≤8.00	PASS
	Ant1	2460	-17.54	≤8.00	PASS
	Ant2	2460	-17.81	≤8.00	PASS
40M	Ant1	2420	-16.12	≤8.00	PASS
	Ant2	2420	-16	≤8.00	PASS
	Ant1	2440	-15.86	≤8.00	PASS
	Ant2	2440	-15.36	≤8.00	PASS
	Ant1	2460	-15.83	≤8.00	PASS
	Ant2	2460	-15.97	≤8.00	PASS

MIMO

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
10M	2420	-11.59	≤7.41	PASS
	2440	-11.91	≤7.41	PASS
	2460	-12.04	≤7.41	PASS
20M	2420	-14.42	≤7.41	PASS
	2440	-14.85	≤7.41	PASS
	2460	-14.66	≤7.41	PASS
40M	2420	-13.05	≤7.41	PASS
	2440	-12.59	≤7.41	PASS
	2460	-12.89	≤7.41	PASS

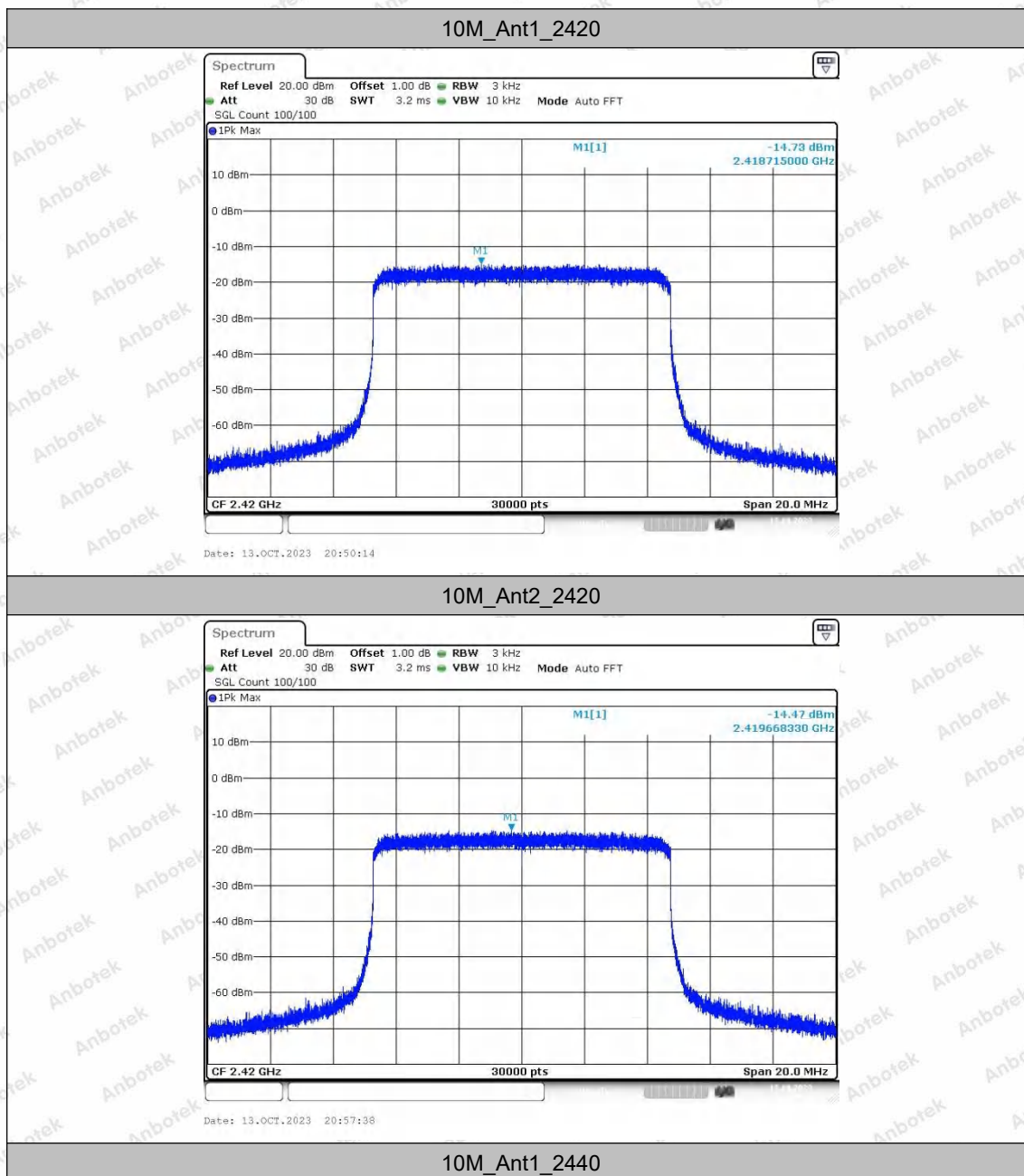
Note:

3. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.59>6dBi,
so limit=8-(6.59-6.00)=7.41dBm/3kHz.

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



Test Graphs



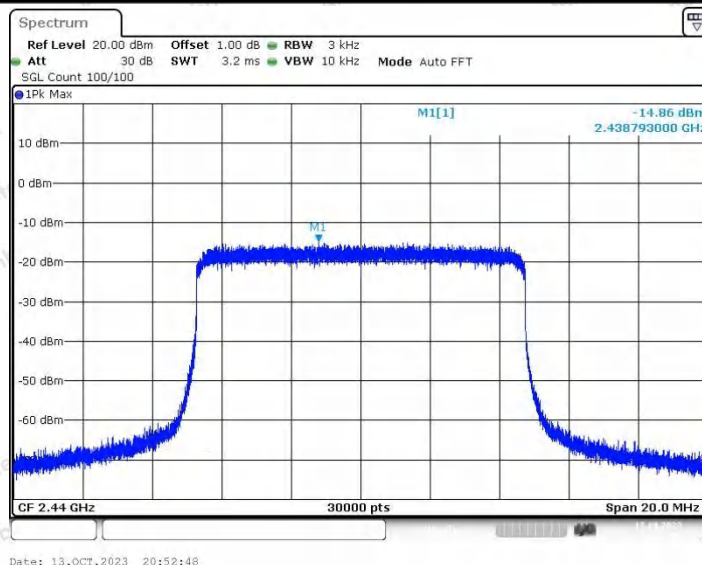
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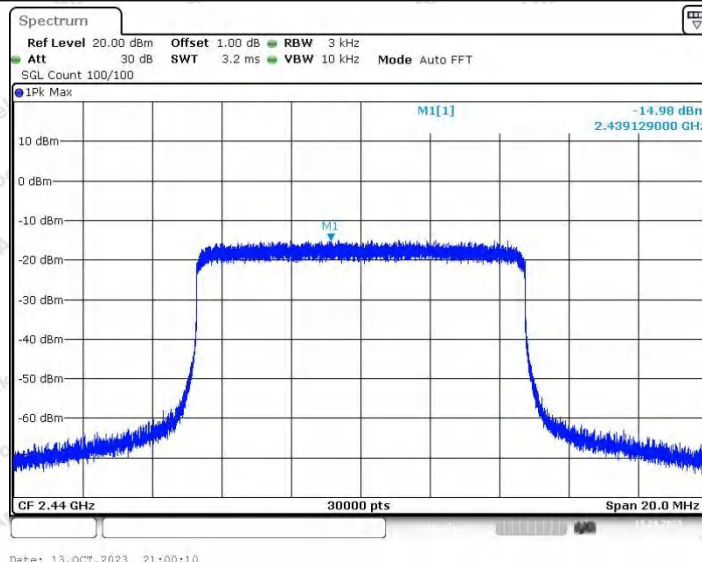


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10M_Ant2_2440



10M_Ant1_2460

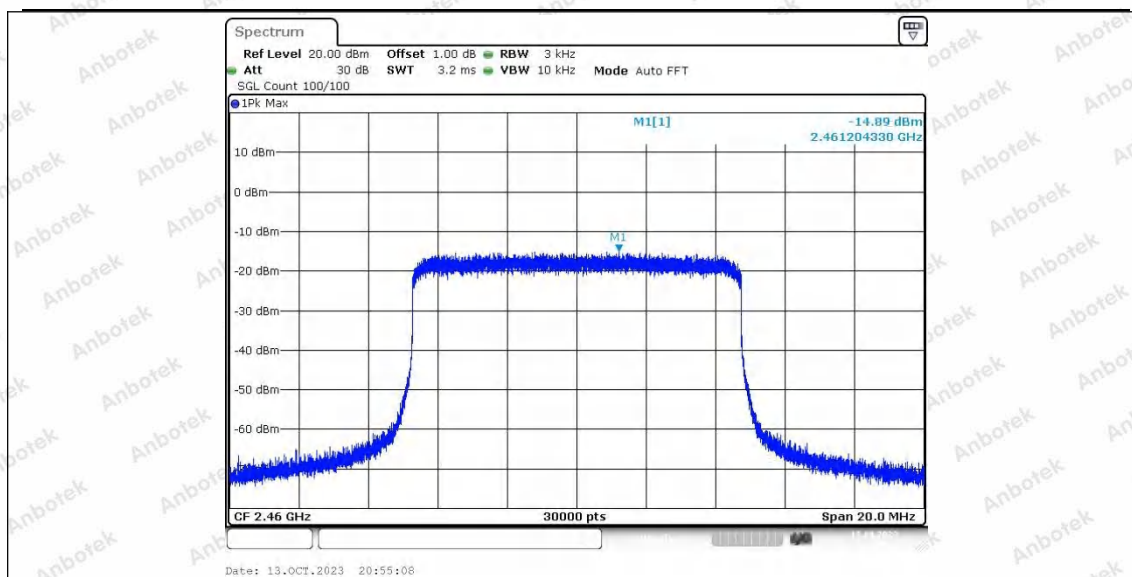
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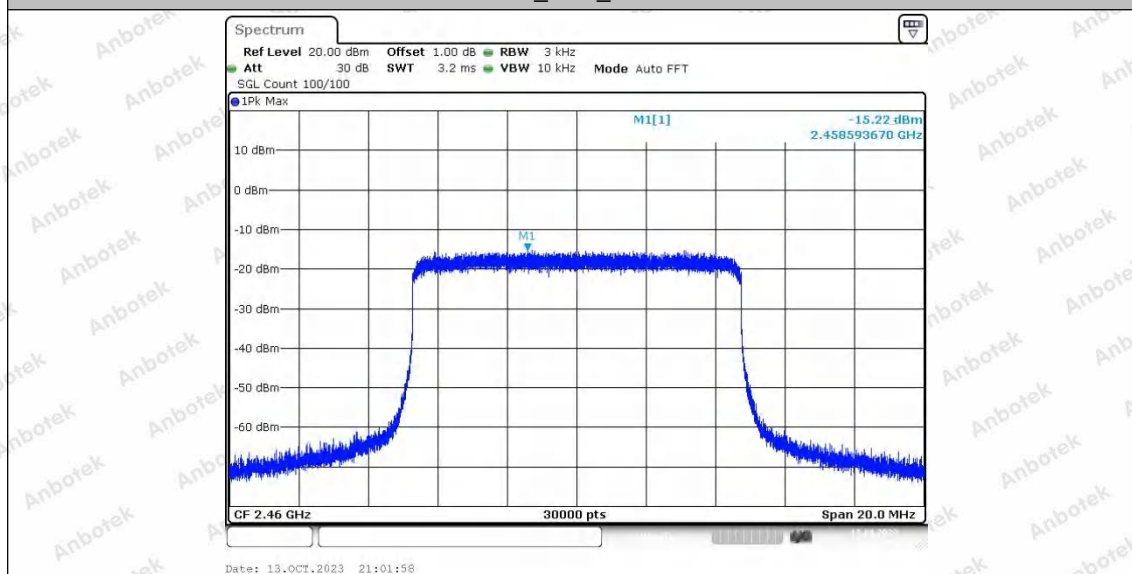


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10M_Ant2_2460



20M_Ant1_2420

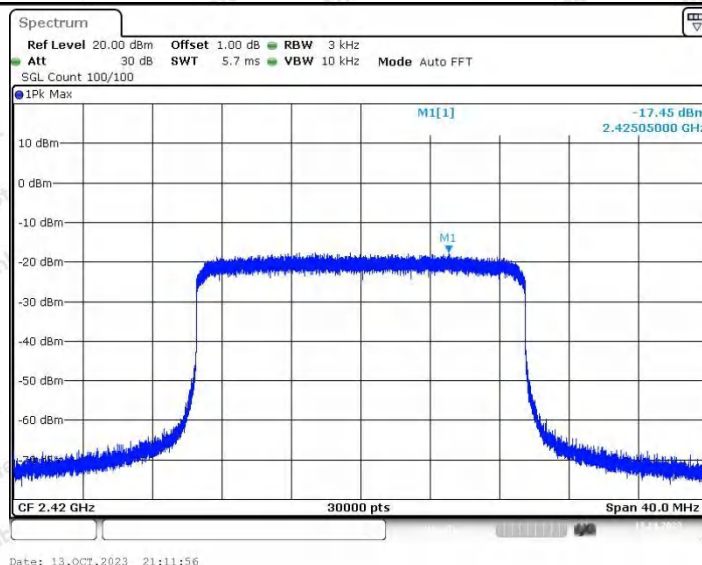
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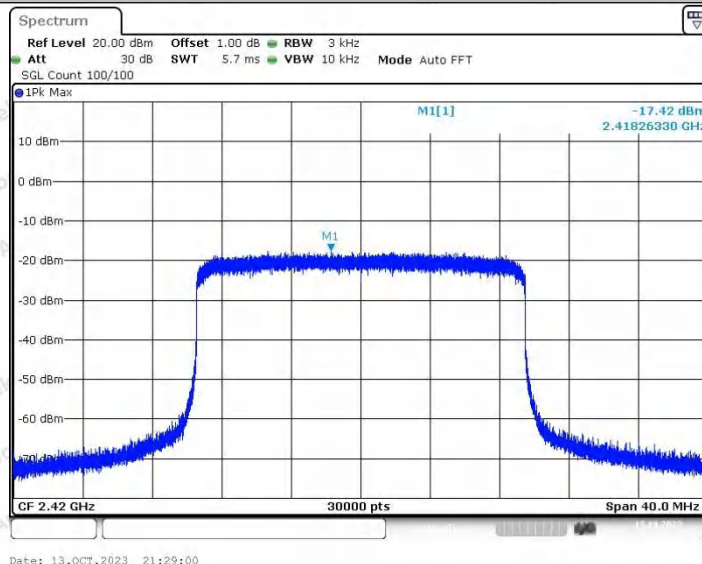


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20M_Ant2_2420



20M_Ant1_2440

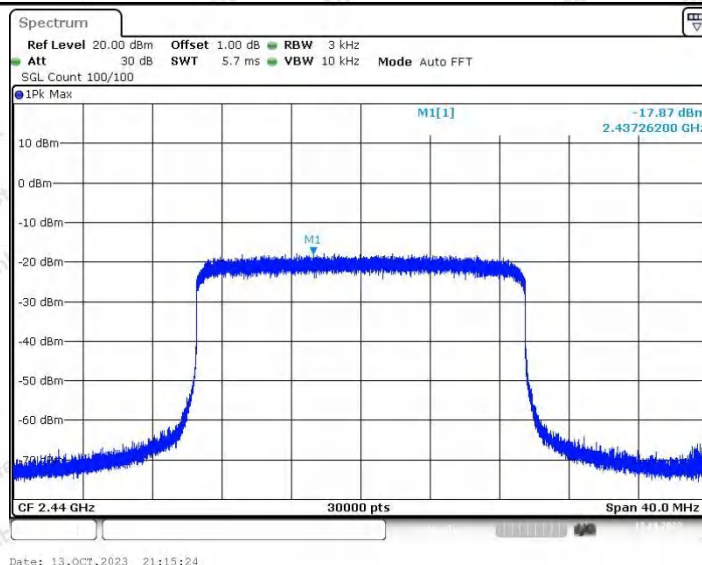
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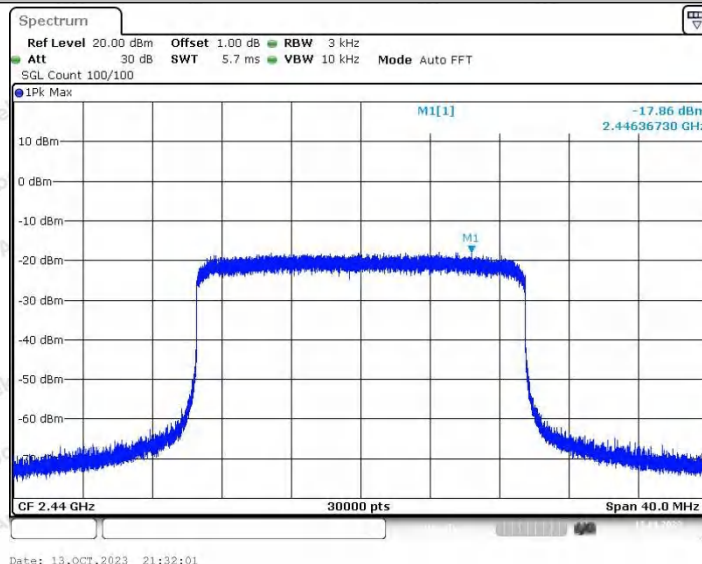


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20M_Ant2_2440



20M_Ant1_2460

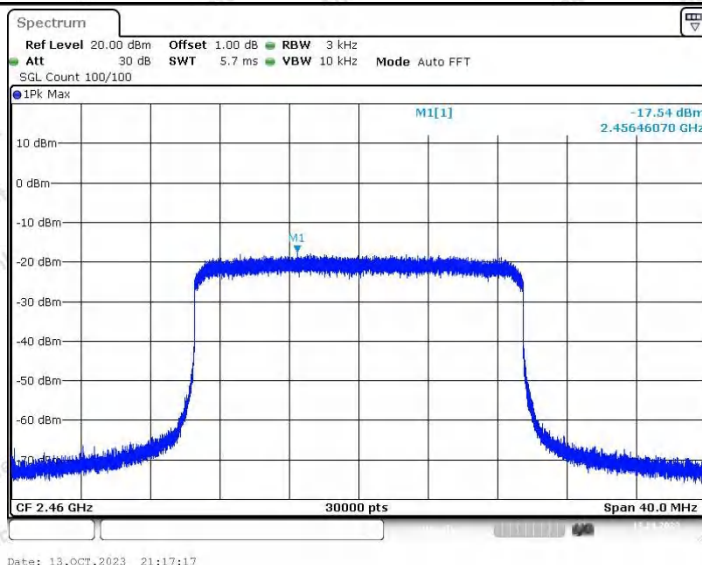
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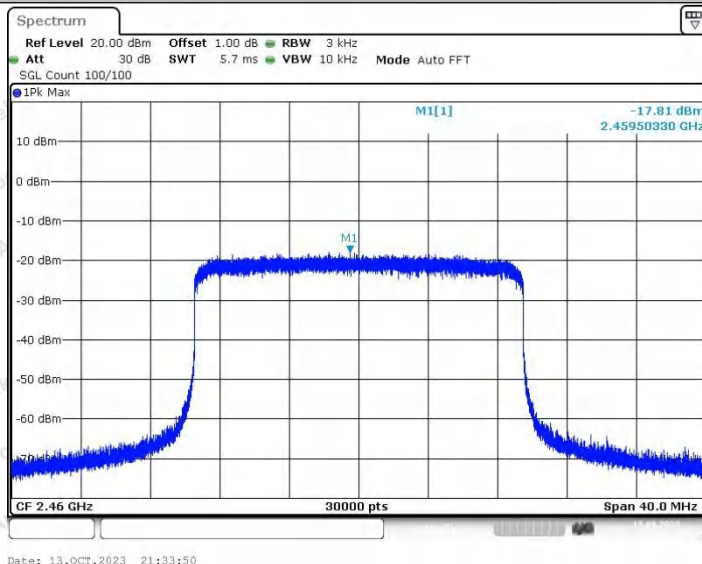


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20M_Ant2_2460



40M_Ant1_2420

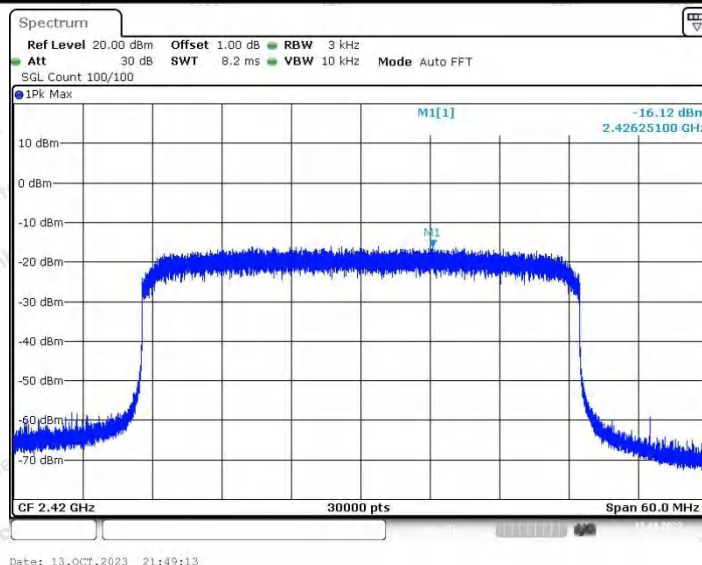
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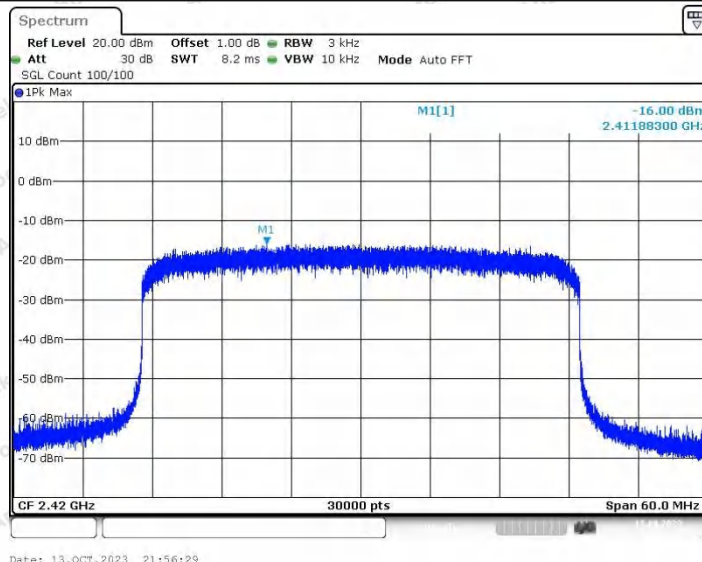


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40M_Ant2_2420



40M_Ant1_2440

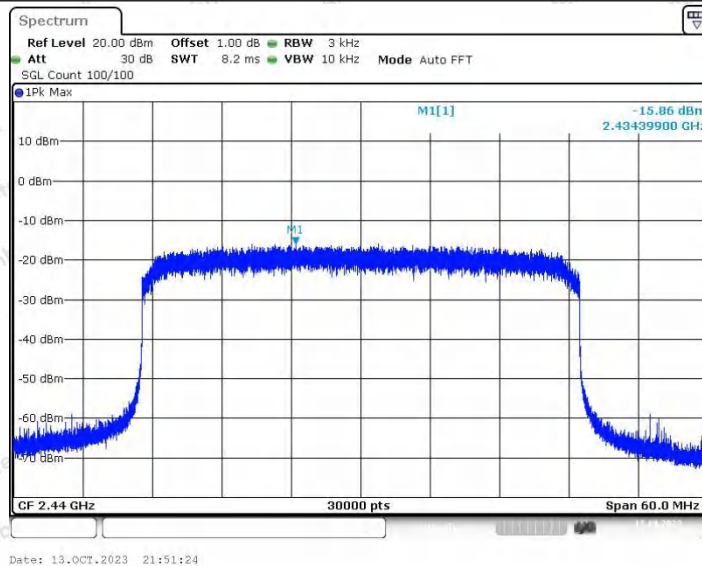
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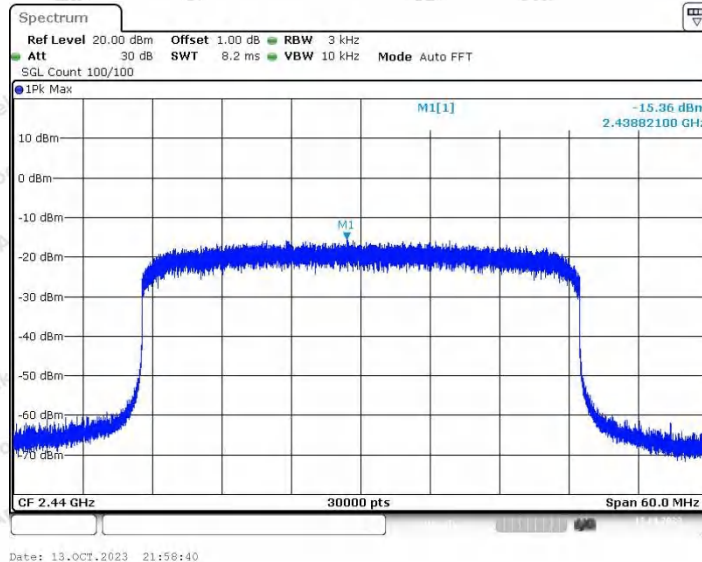


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40M_Ant2_2440



40M_Ant1_2460

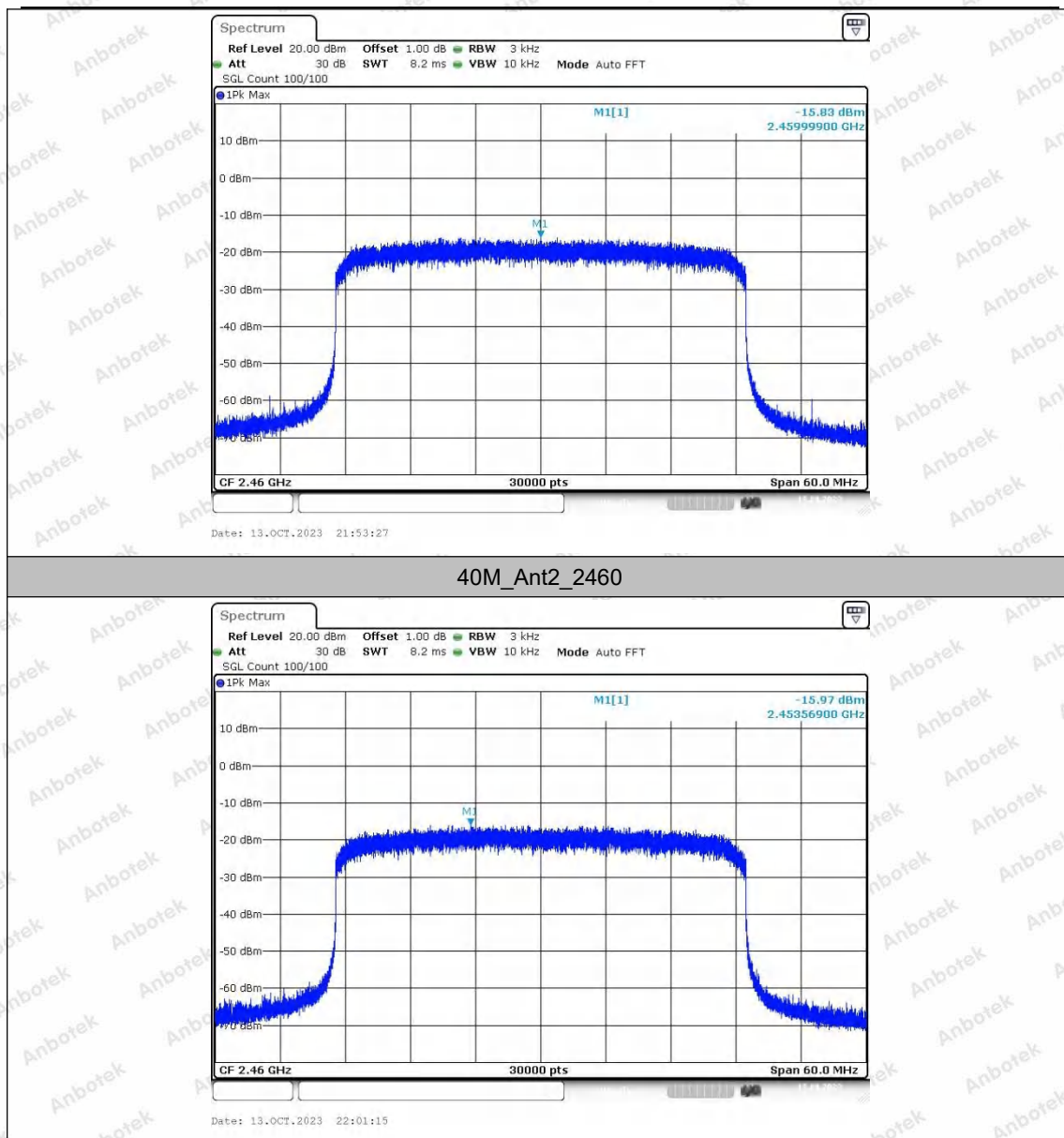
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Appendix E: Band edge measurements

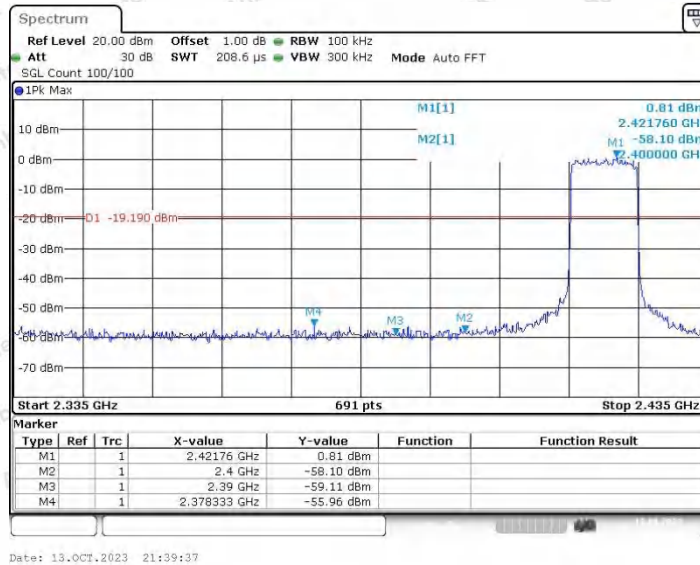
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
10M	Ant1	Low	2420	0.81	-55.96	≤-19.19	PASS
	Ant2	Low	2420	1.26	-56.04	≤-18.74	PASS
	Ant1	High	2460	1.86	-55.84	≤-18.14	PASS
	Ant2	High	2460	0.52	-56.65	≤-19.48	PASS
20M	Ant1	Low	2420	-1.82	-55.41	≤-21.82	PASS
	Ant2	Low	2420	-1.67	-56.25	≤-21.67	PASS
	Ant1	High	2460	-2.21	-55.37	≤-22.21	PASS
	Ant2	High	2460	-2.58	-55.7	≤-22.58	PASS
40M	Ant1	Low	2420	-1.67	-41.94	≤-21.67	PASS
	Ant2	Low	2420	-0.71	-42.8	≤-20.71	PASS
	Ant1	High	2460	-1.25	-50.42	≤-21.25	PASS
	Ant2	High	2460	-1.77	-48.65	≤-21.77	PASS

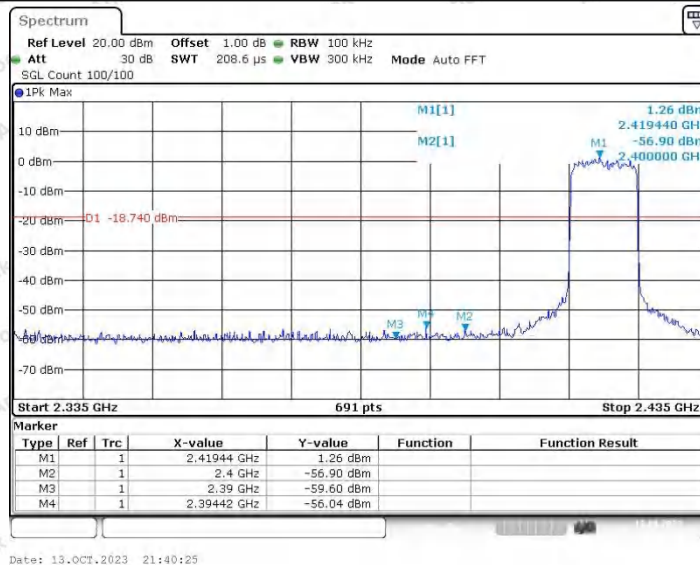


Test Graphs

10M_Ant1_Low_2420



10M_Ant2_Low_2420



10M_Ant1_High_2460

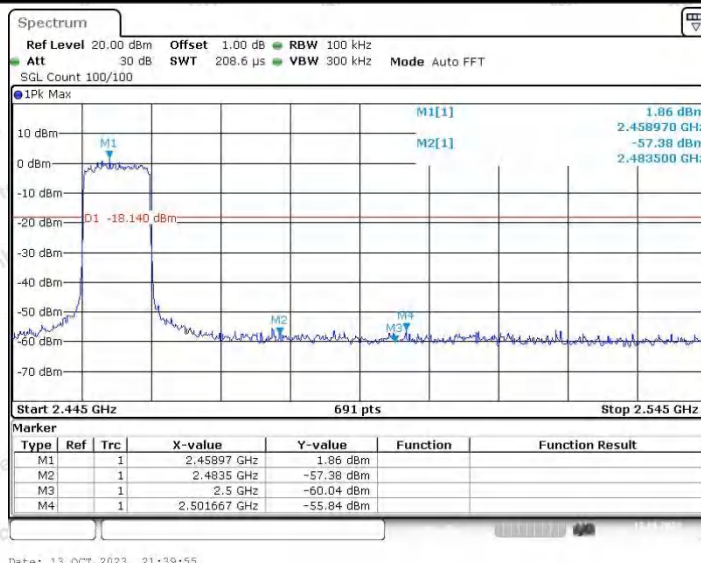
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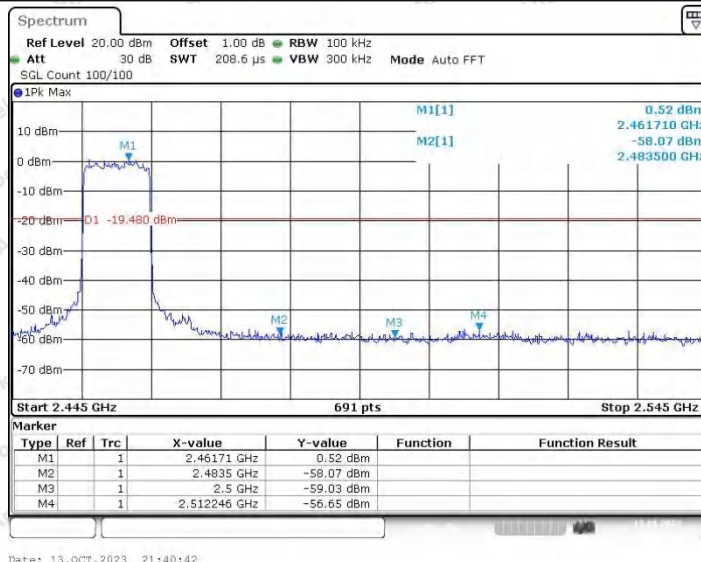


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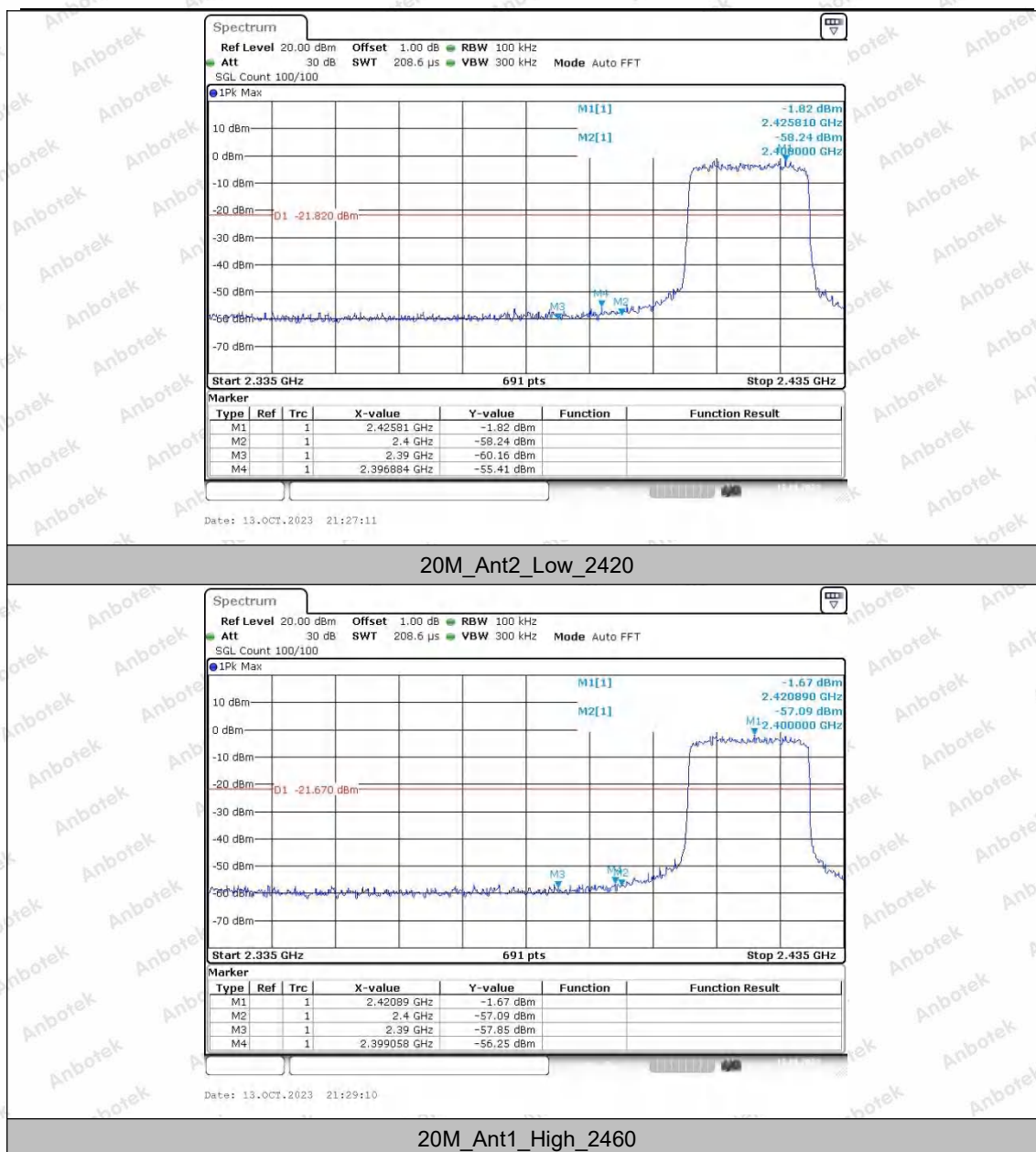


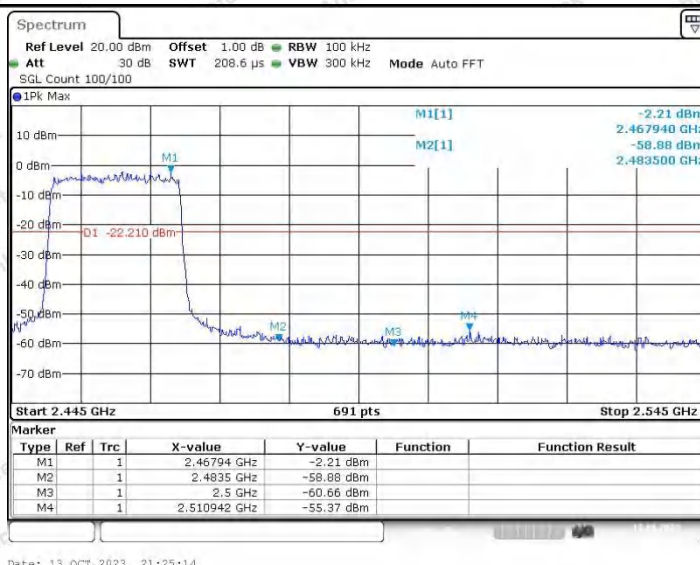
10M_Ant2_High_2460



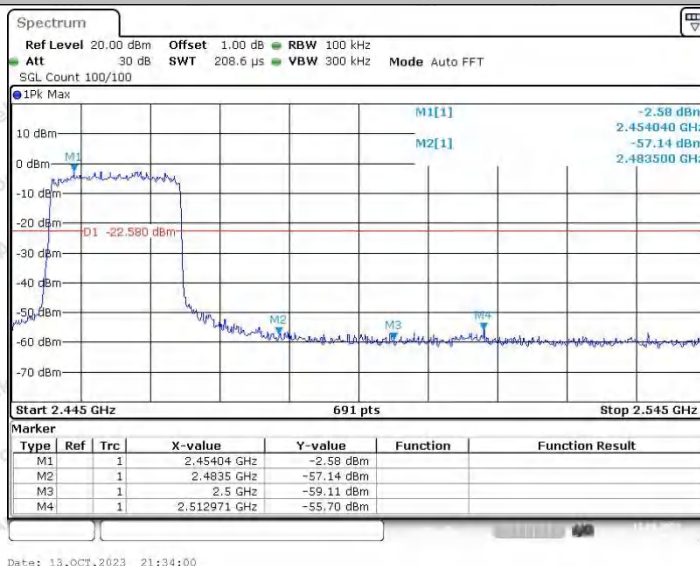
20M_Ant1_Low_2420





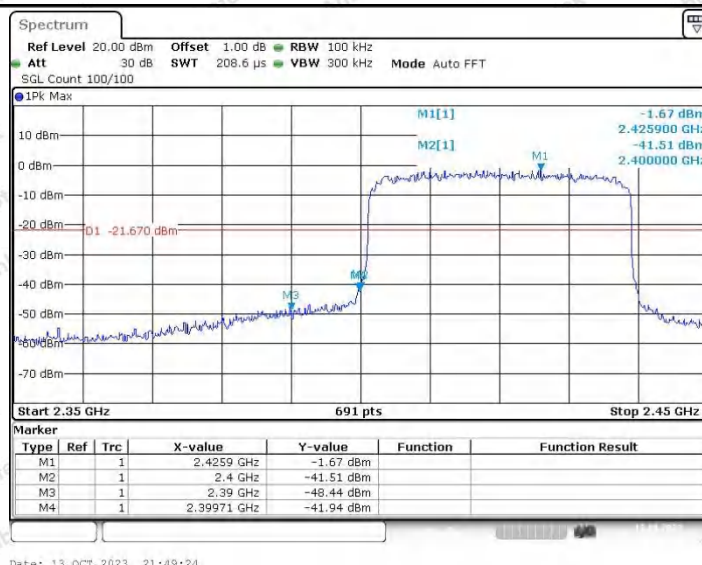


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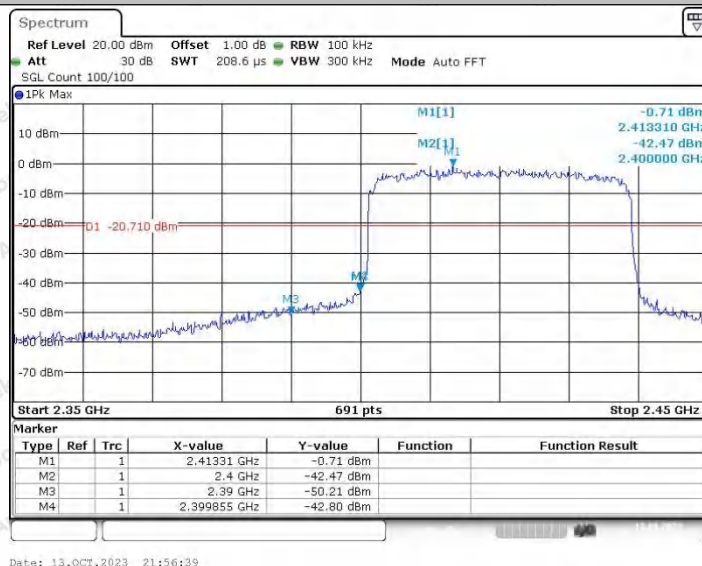


40M_Ant1_Low_2420



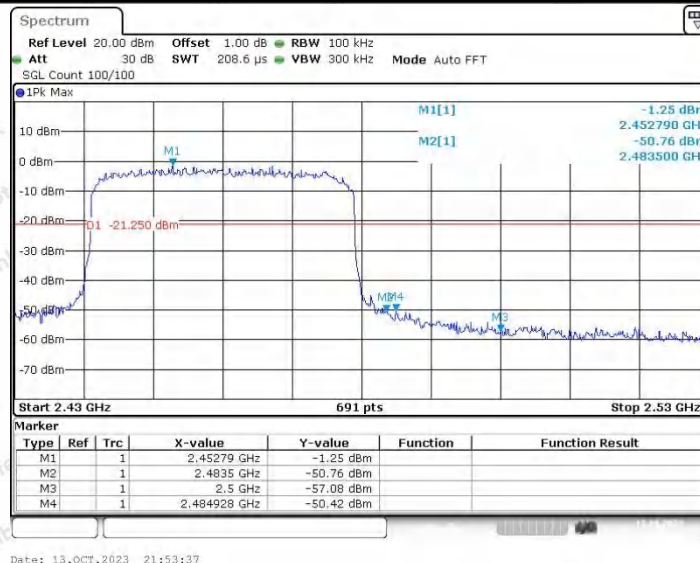


40M_Ant2_Low_2420

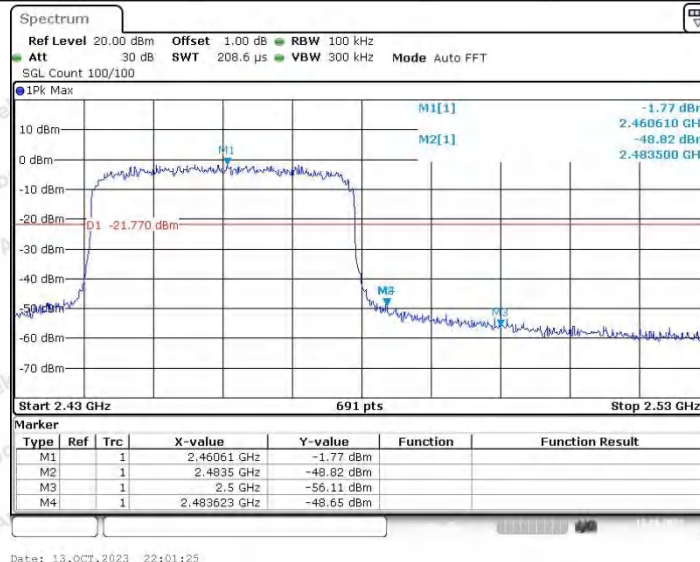


40M_Ant1_High_2460





40M_Ant2_High_2460



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
10M	Ant1	2420	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.52	≤-17.97	PASS
			1000~26500	2.03	-46.86	≤-17.97	PASS
	Ant2	2420	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-68.51	≤-18.5	PASS
			1000~26500	1.50	-48.36	≤-18.5	PASS
	Ant1	2440	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-68.56	≤-18.43	PASS
			1000~26500	1.57	-47.83	≤-18.43	PASS
	Ant2	2440	Reference	2.62	2.62	---	PASS
			30~1000	2.62	-68.62	≤-17.38	PASS
			1000~26500	2.62	-50.46	≤-17.38	PASS
	Ant1	2460	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-68.69	≤-18.26	PASS
			1000~26500	1.74	-48.94	≤-18.26	PASS
	Ant2	2460	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-67.98	≤-17.61	PASS
			1000~26500	2.39	-51.25	≤-17.61	PASS
20M	Ant1	2420	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.29	≤-21.71	PASS
			1000~26500	-1.71	-47.38	≤-21.71	PASS
	Ant2	2420	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-67.98	≤-20.31	PASS
			1000~26500	-0.31	-54.85	≤-20.31	PASS
	Ant1	2440	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-68.12	≤-21.5	PASS
			1000~26500	-1.50	-48.52	≤-21.5	PASS

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40M	Ant2	2440	0				
			Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-68.73	≤ -21.47	PASS
			1000~2650	-1.47	-54	≤ -21.47	PASS
	Ant1	2460	0				
			Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-68.06	≤ -21.76	PASS
			1000~2650	-1.76	-49.36	≤ -21.76	PASS
	Ant2	2460	0				
			Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-68.58	≤ -22.34	PASS
			1000~2650	-2.34	-54.45	≤ -22.34	PASS
	Ant1	2420	0				
			Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-67.97	≤ -21.37	PASS
			1000~2650	-1.37	-46.43	≤ -21.37	PASS
	Ant2	2420	0				
			Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-68.05	≤ -21.55	PASS
			1000~2650	-1.55	-49.33	≤ -21.55	PASS
	Ant1	2440	0				
			Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-68.24	≤ -20.57	PASS
			1000~2650	-0.57	-47.83	≤ -20.57	PASS
	Ant2	2440	0				
			Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-68.15	≤ -21.56	PASS
			1000~2650	-1.56	-49.77	≤ -21.56	PASS
	Ant1	2460	0				
			Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-68.12	≤ -21.15	PASS
			1000~2650	-1.15	-47.9	≤ -21.15	PASS
	Ant2	2460	0				
			Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-68.04	≤ -21.45	PASS
			1000~2650	-1.45	-50.68	≤ -21.45	PASS

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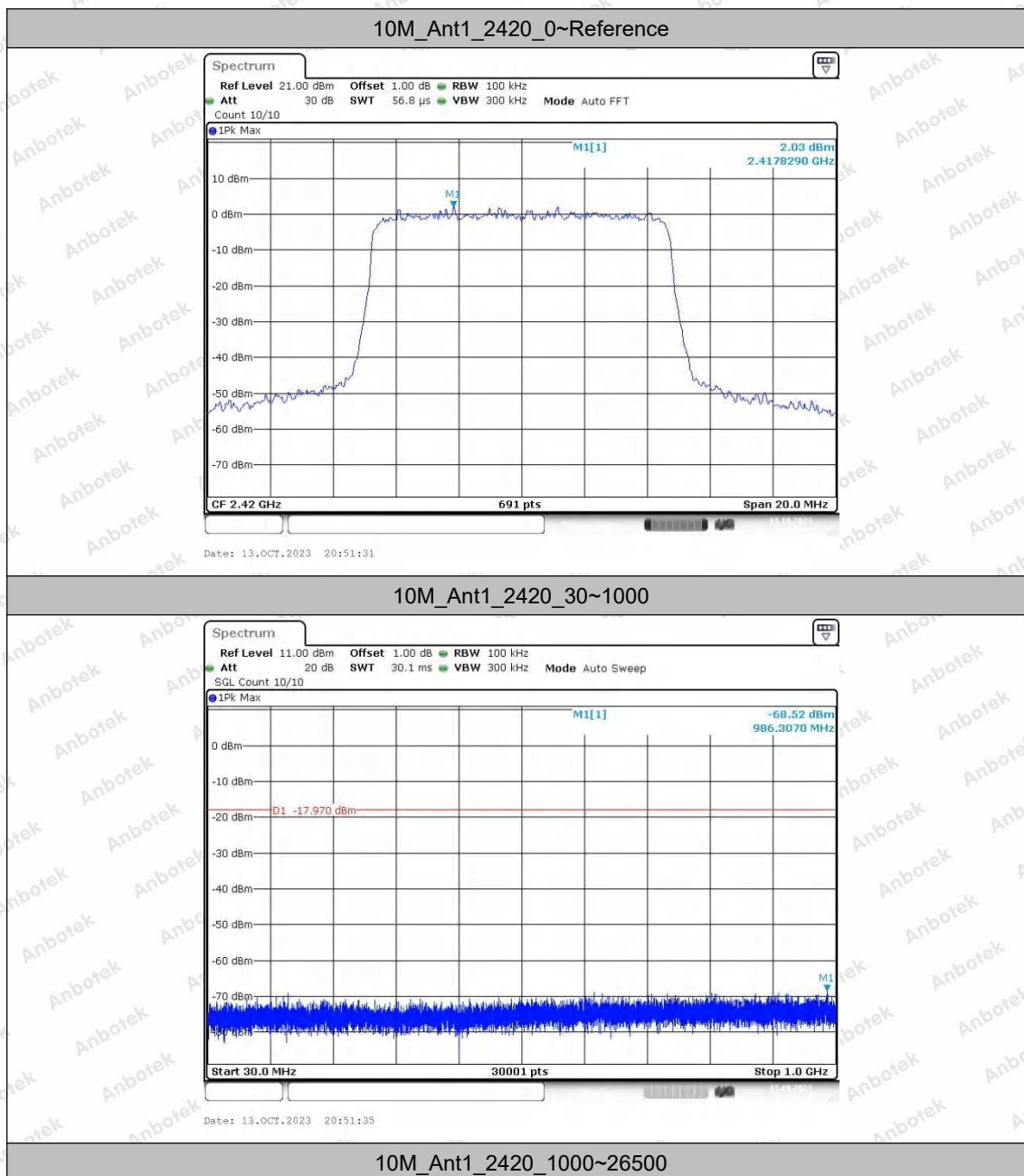
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Test Graphs



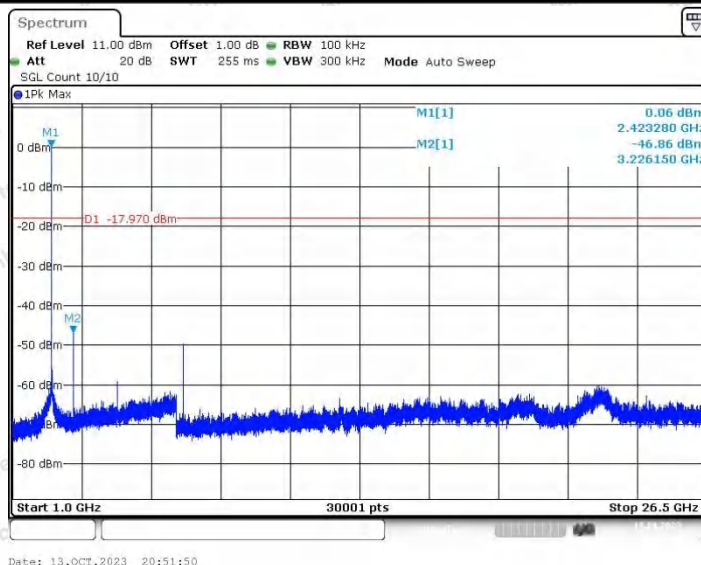
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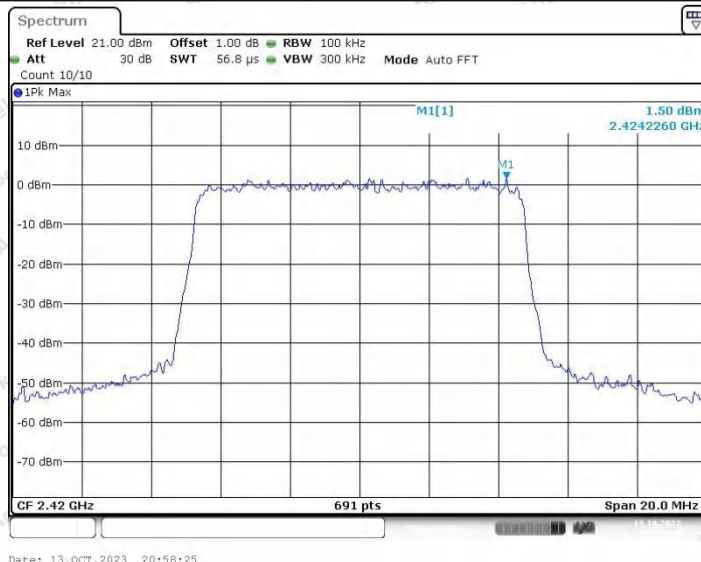


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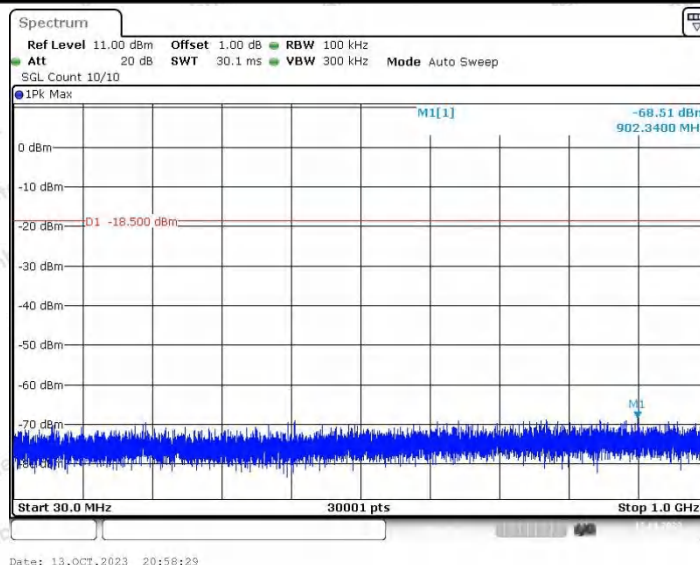


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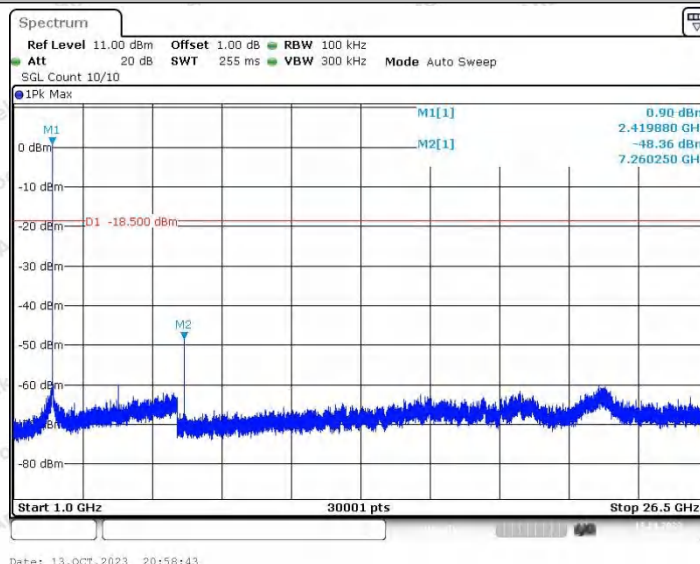


10M_Ant2_2420_30~1000





10M_Ant2_2420_1000~26500



10M_Ant1_2440_0~Reference

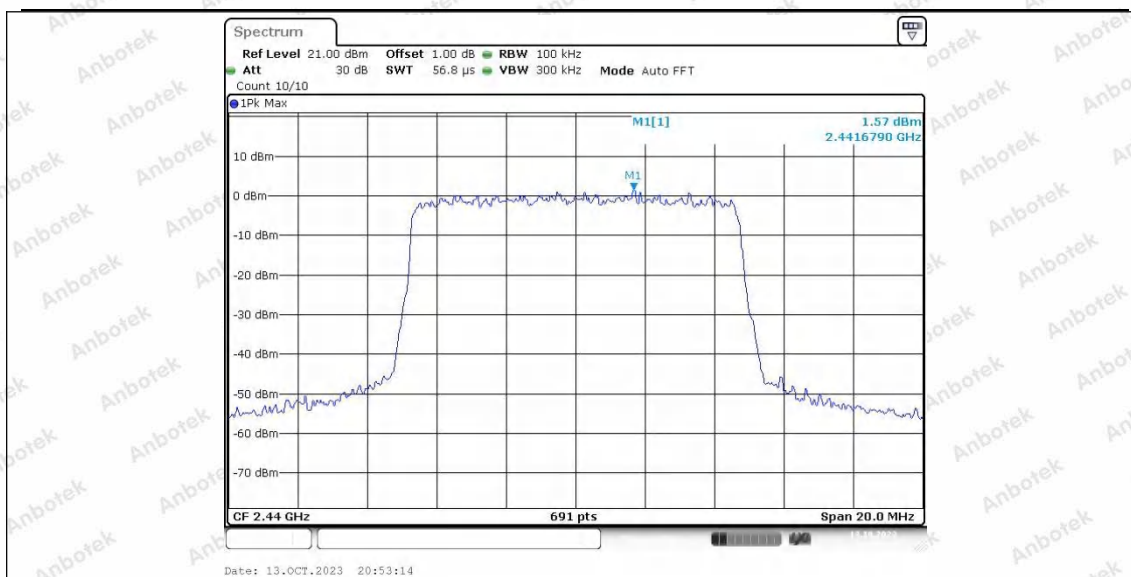
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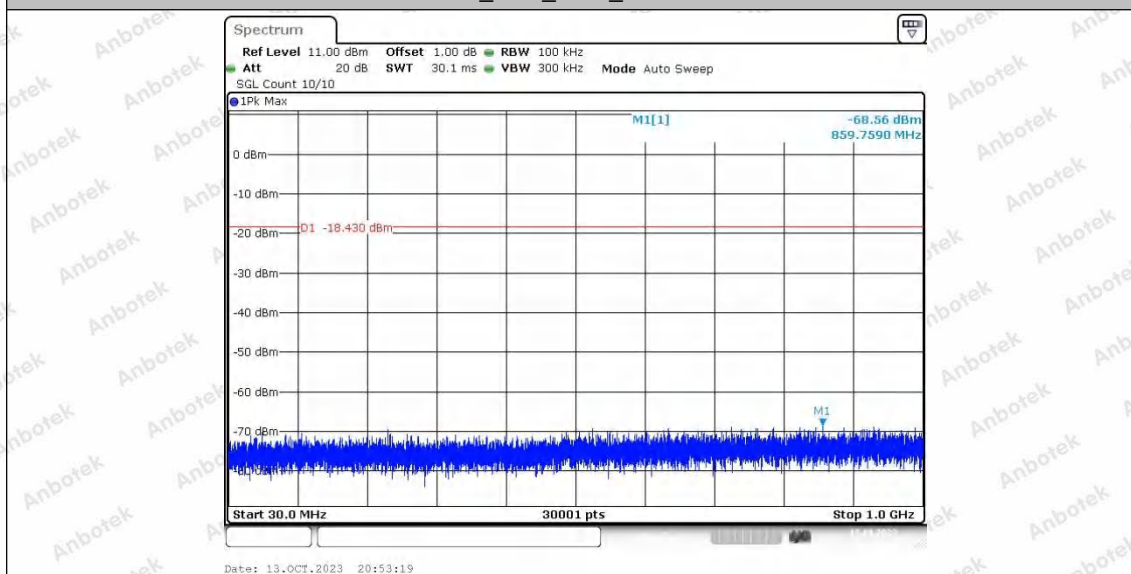


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10M_Ant1_2440_30~1000



10M_Ant1_2440_1000~26500

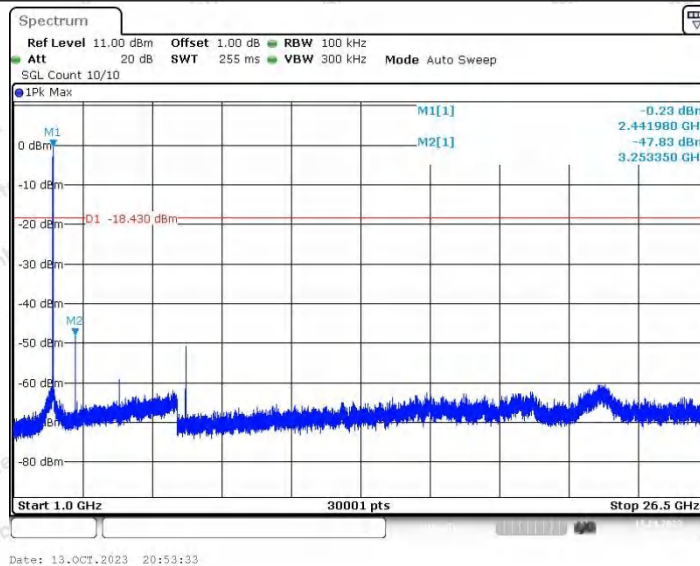
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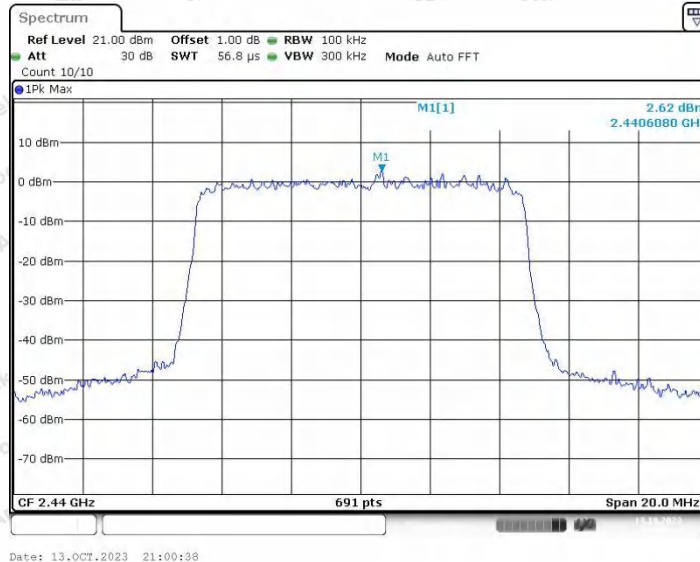


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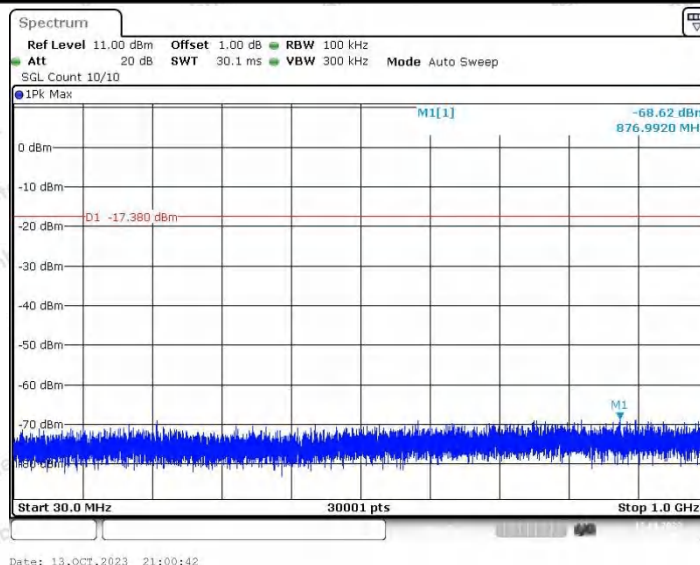


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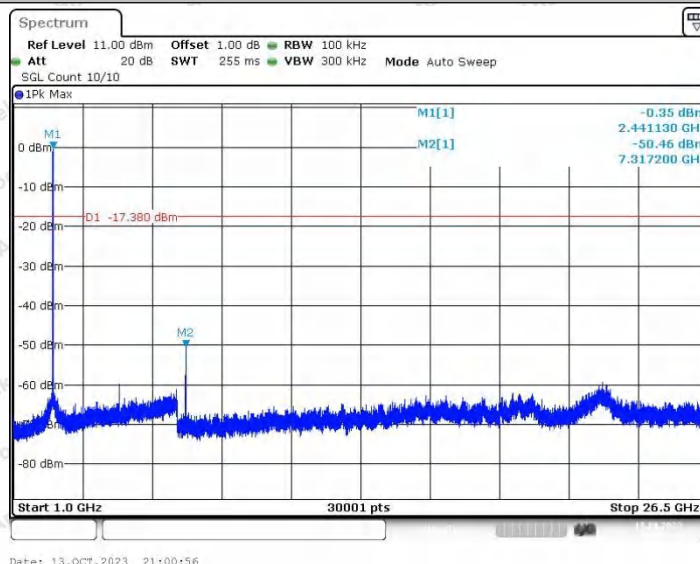


10M_Ant2_2440_30~1000





10M_Ant2_2440_1000~26500



10M_Ant1_2460_0~Reference

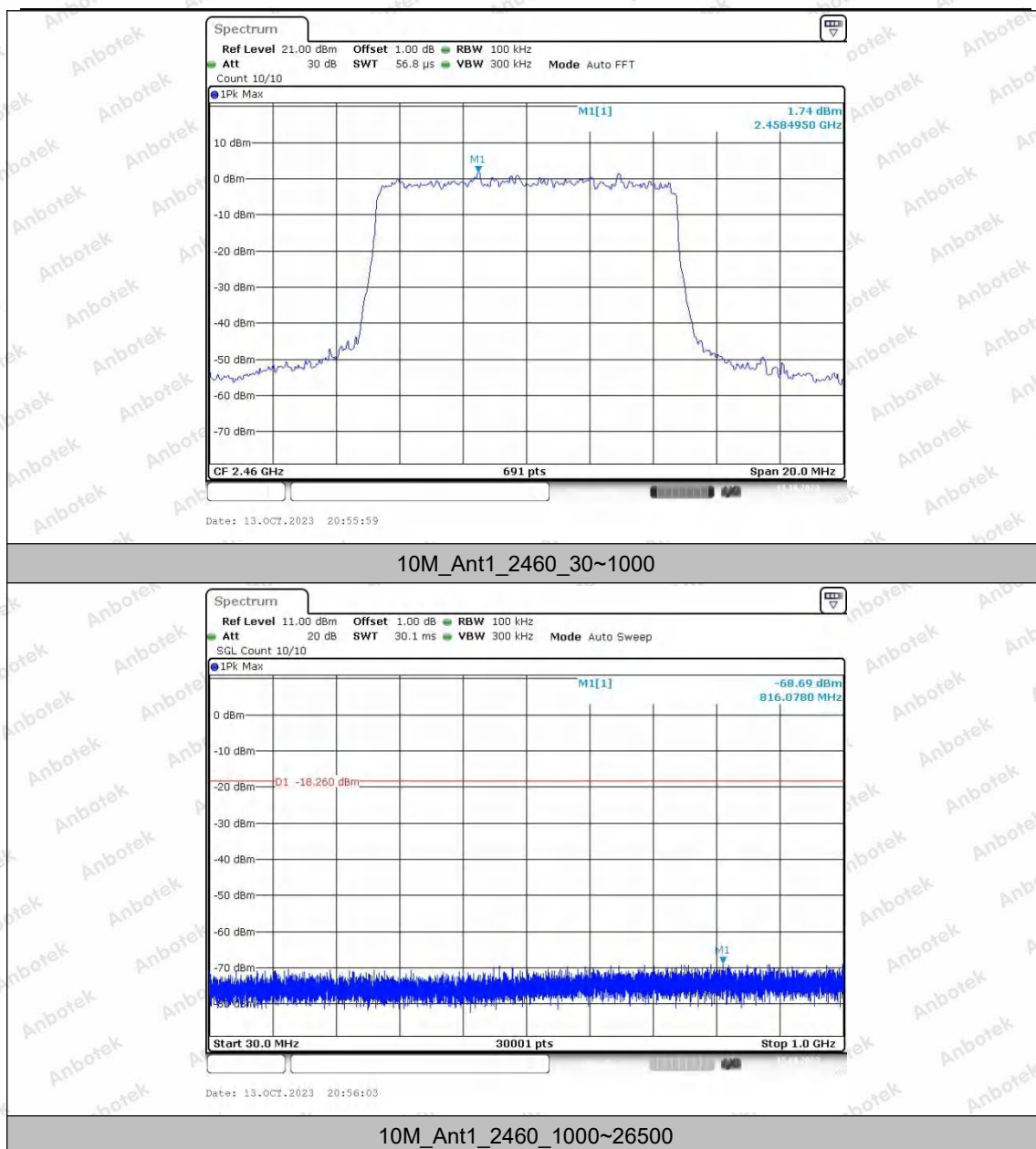
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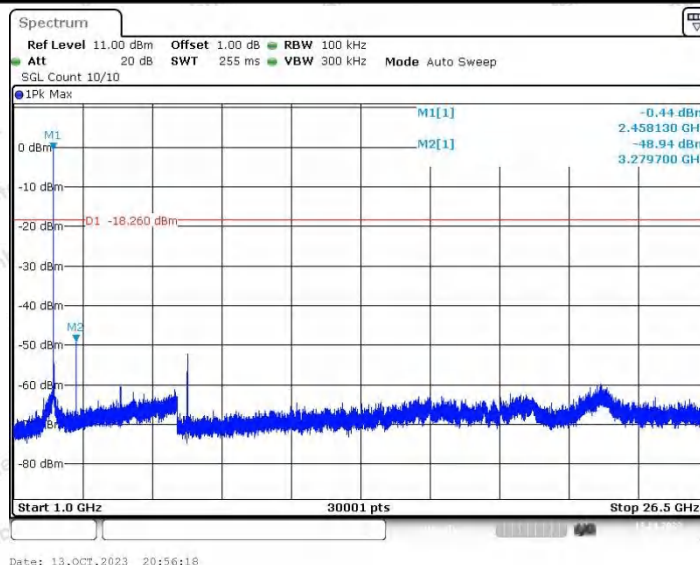
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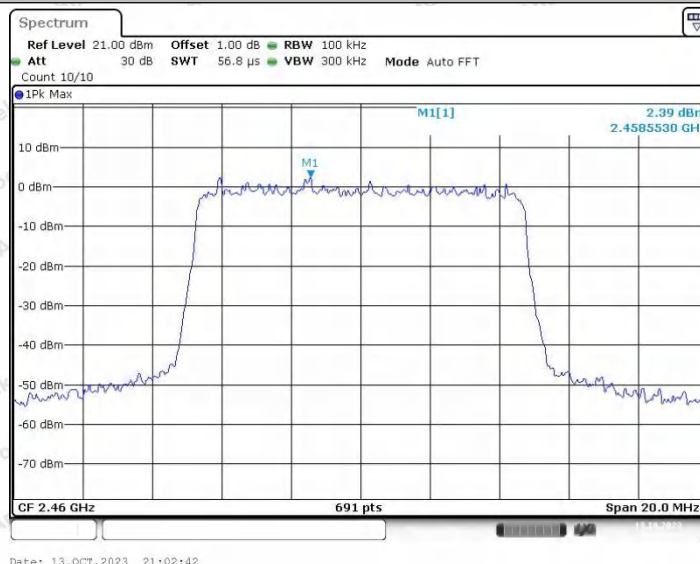


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10M_Ant2_2460_0~Reference



10M_Ant2_2460_30~1000

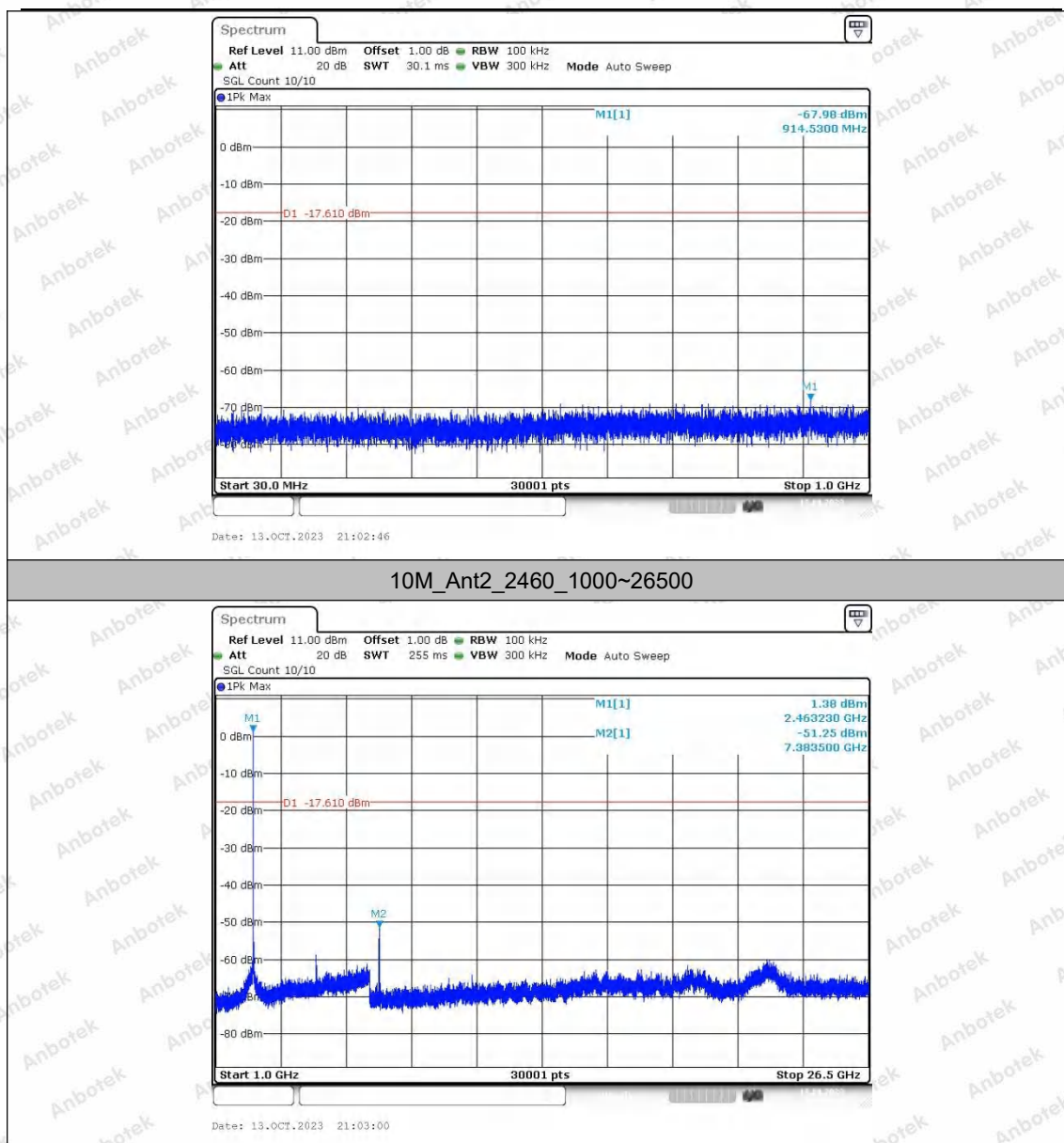
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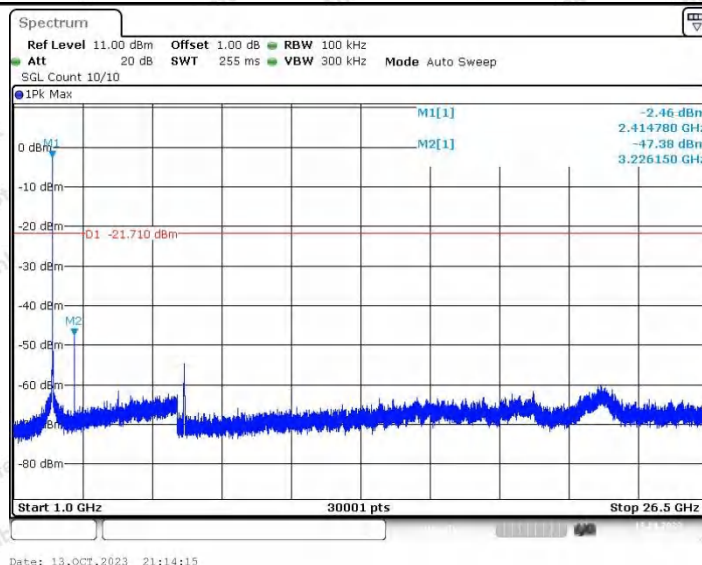
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

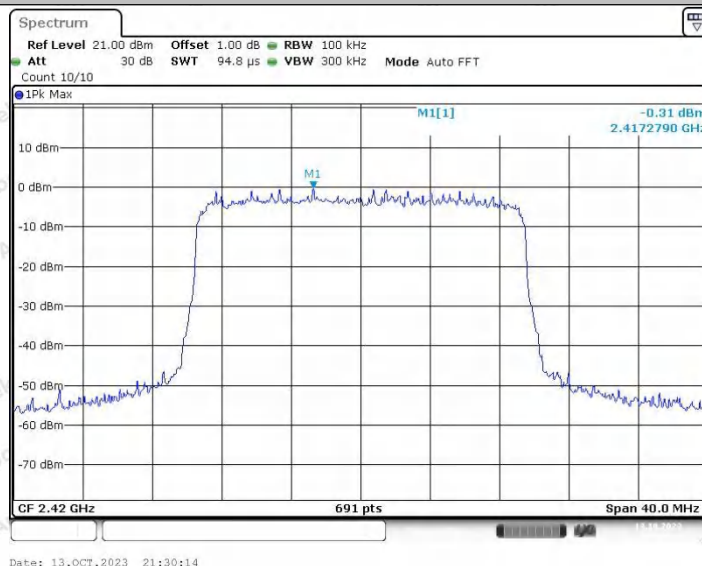


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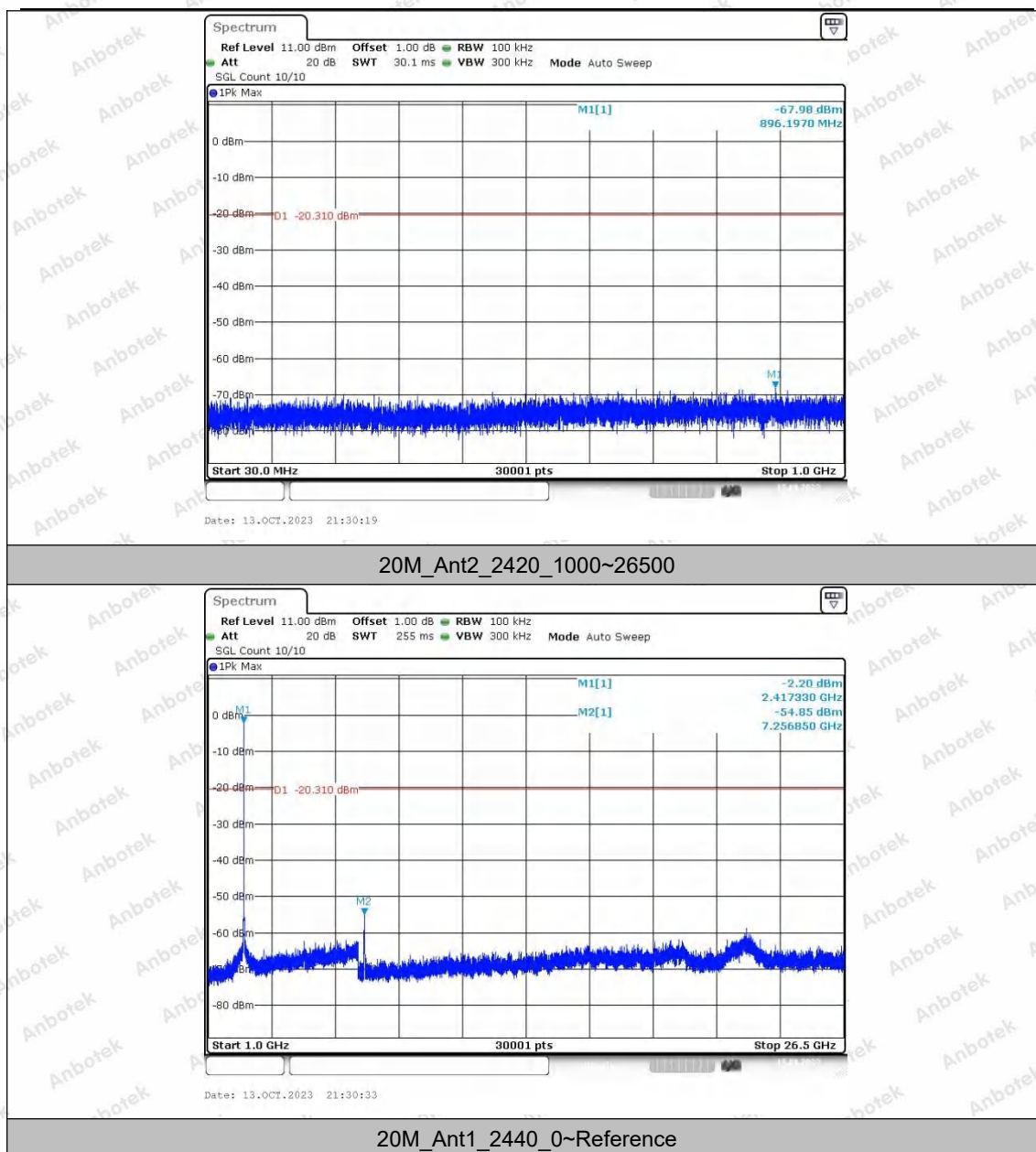


20M_Ant2_2420_0~Reference



20M_Ant2_2420_30~1000



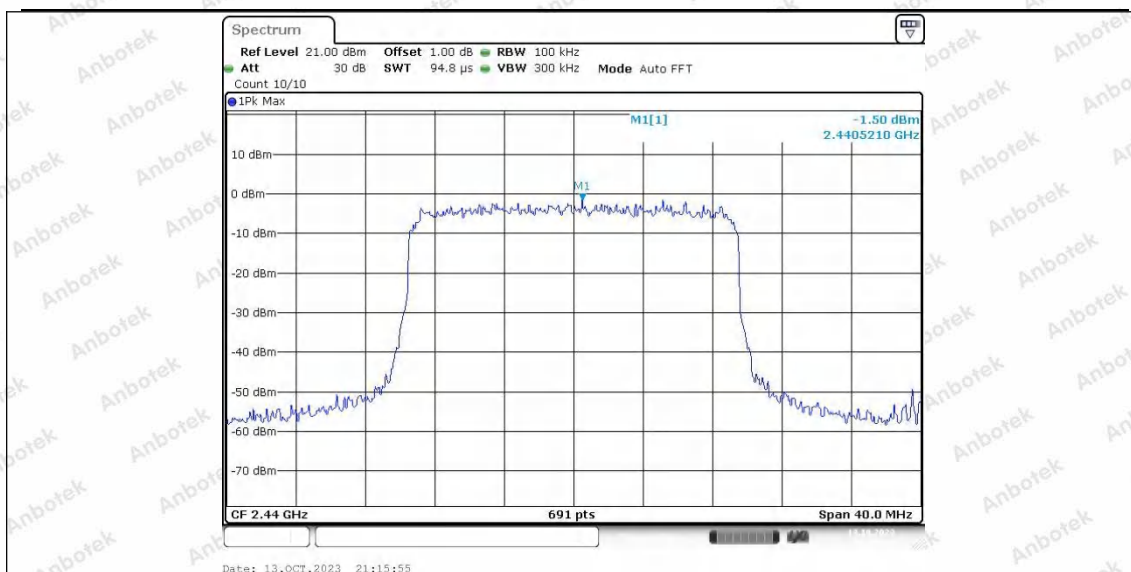
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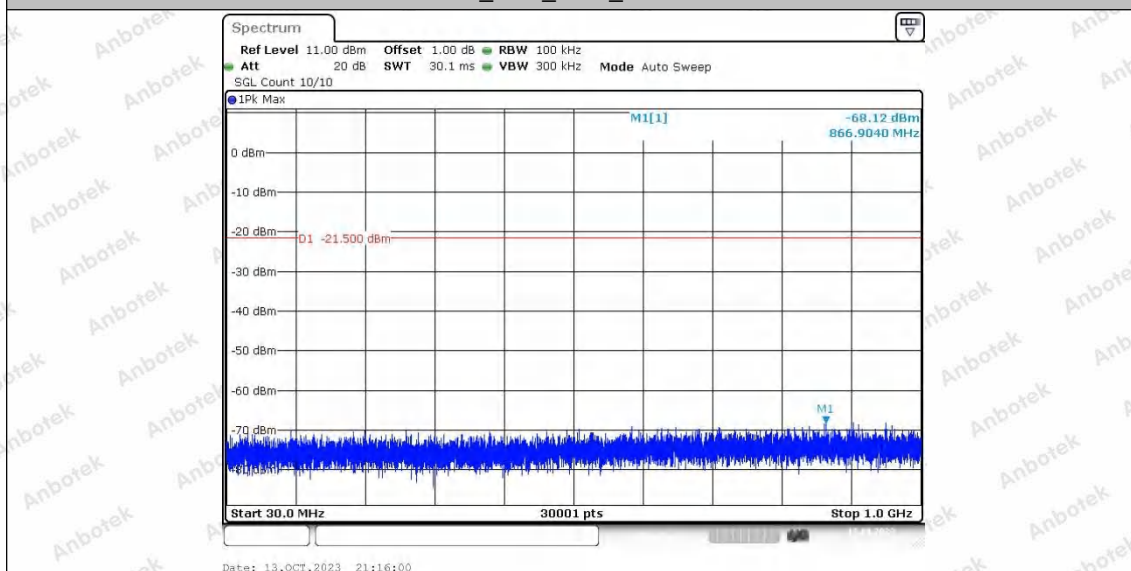


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20M_Ant1_2440_30~1000



20M_Ant1_2440_1000~26500

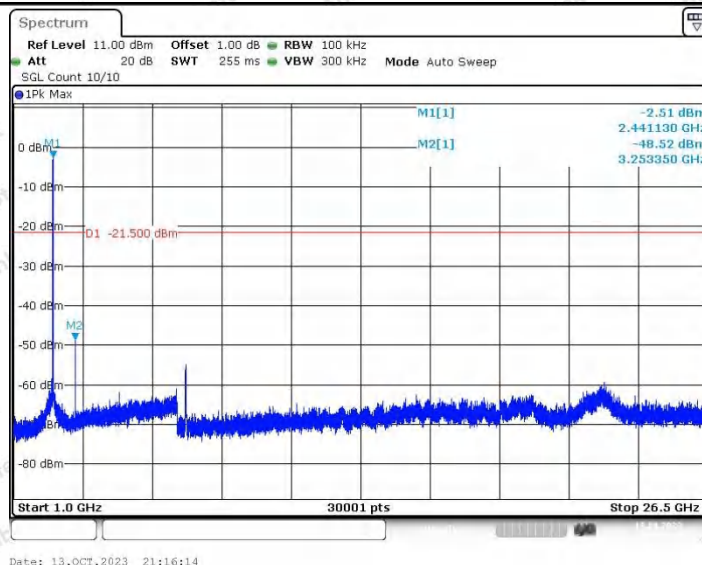
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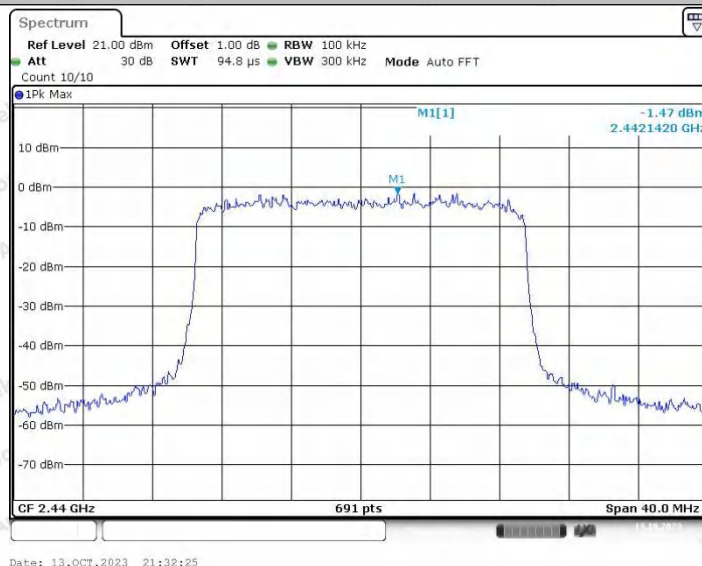


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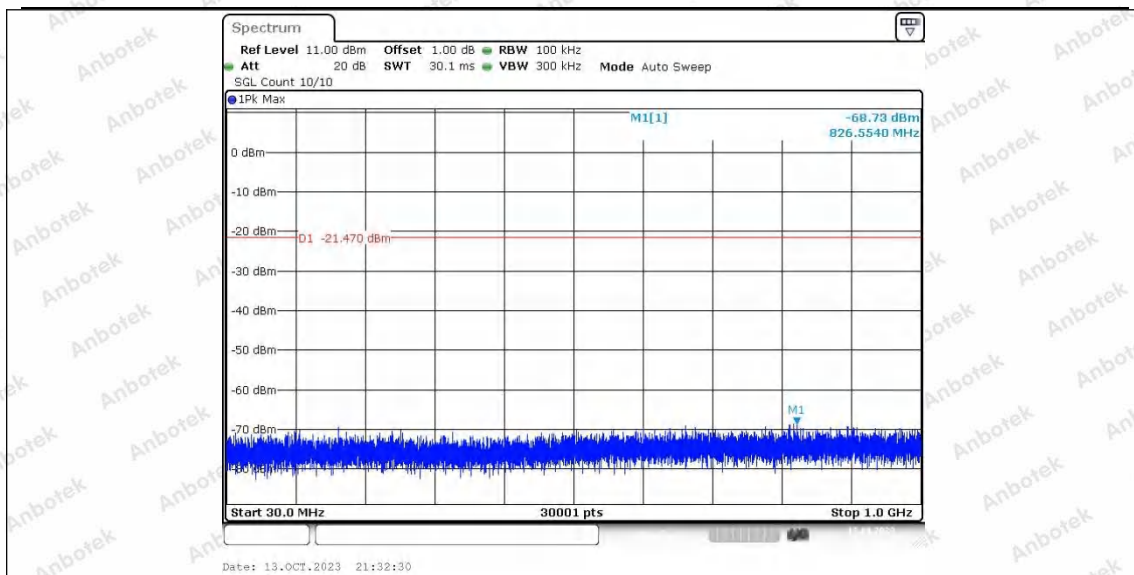


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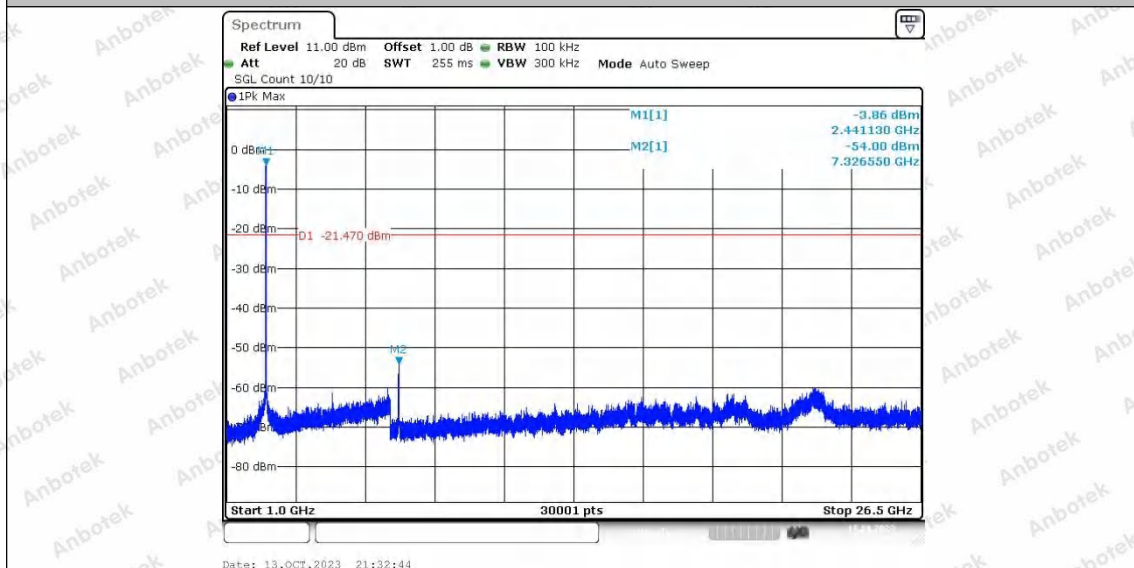


20M_Ant2_2440_30~1000





20M_Ant2_2440_1000~26500



20M_Ant1_2460_0~Reference

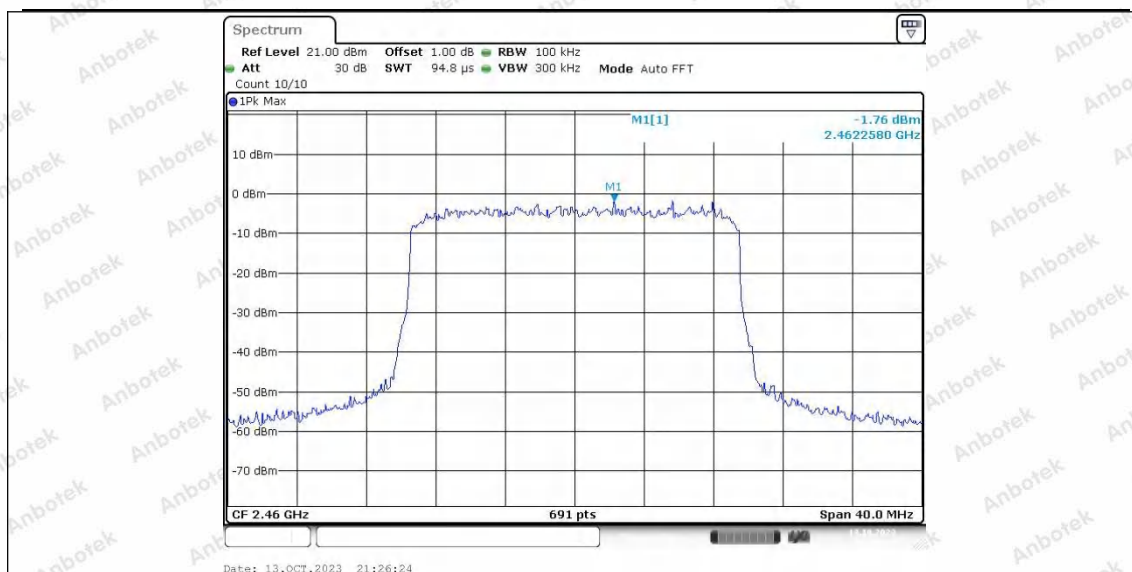
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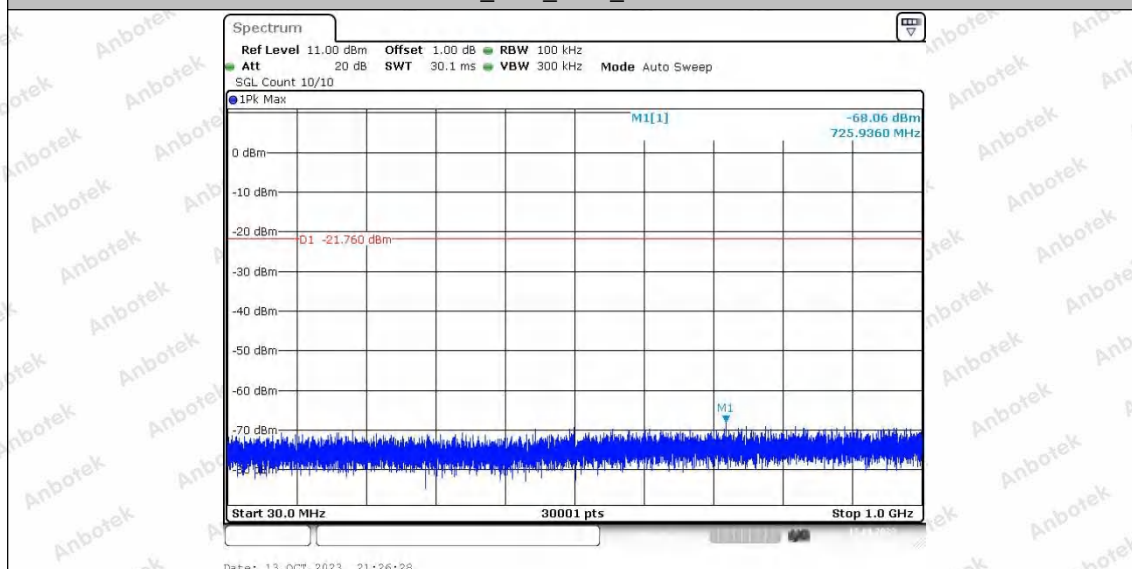


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20M_Ant1_2460_30~1000



20M_Ant1_2460_1000~26500

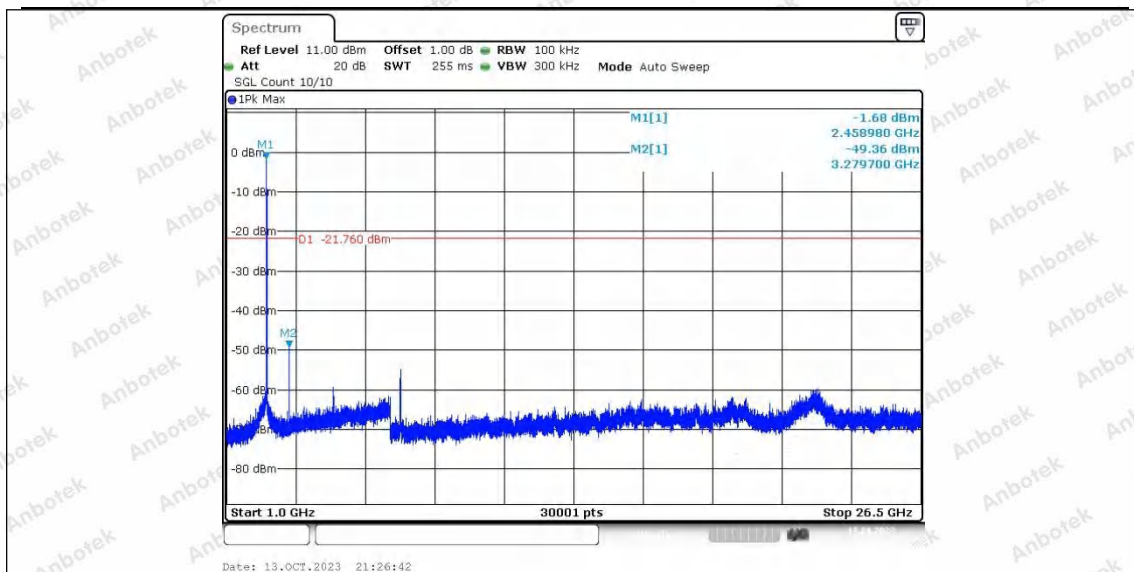
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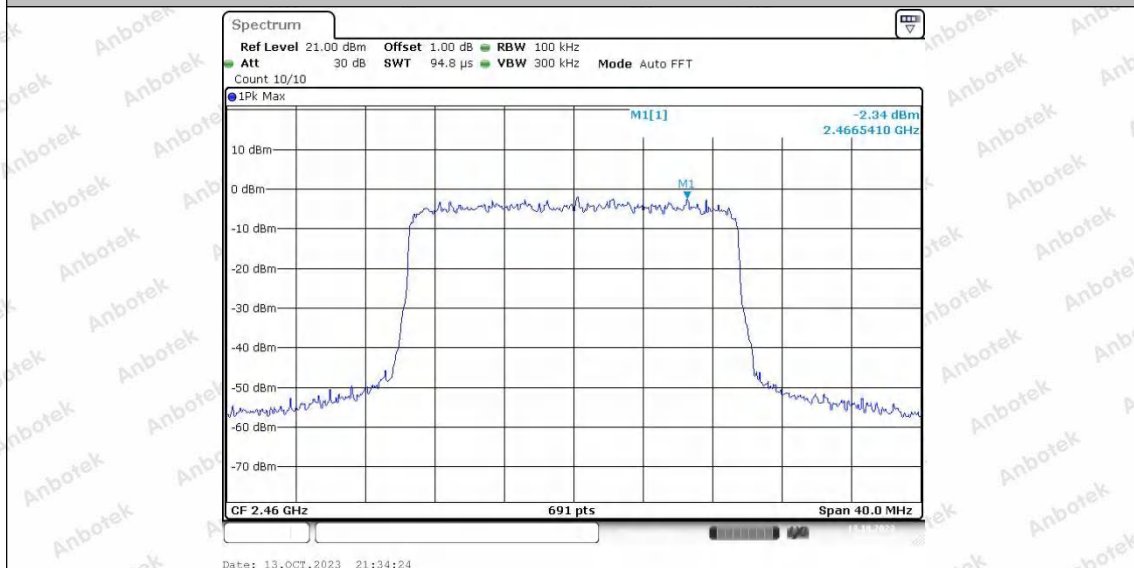


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20M_Ant2_2460_0~Reference



20M_Ant2_2460_30~1000

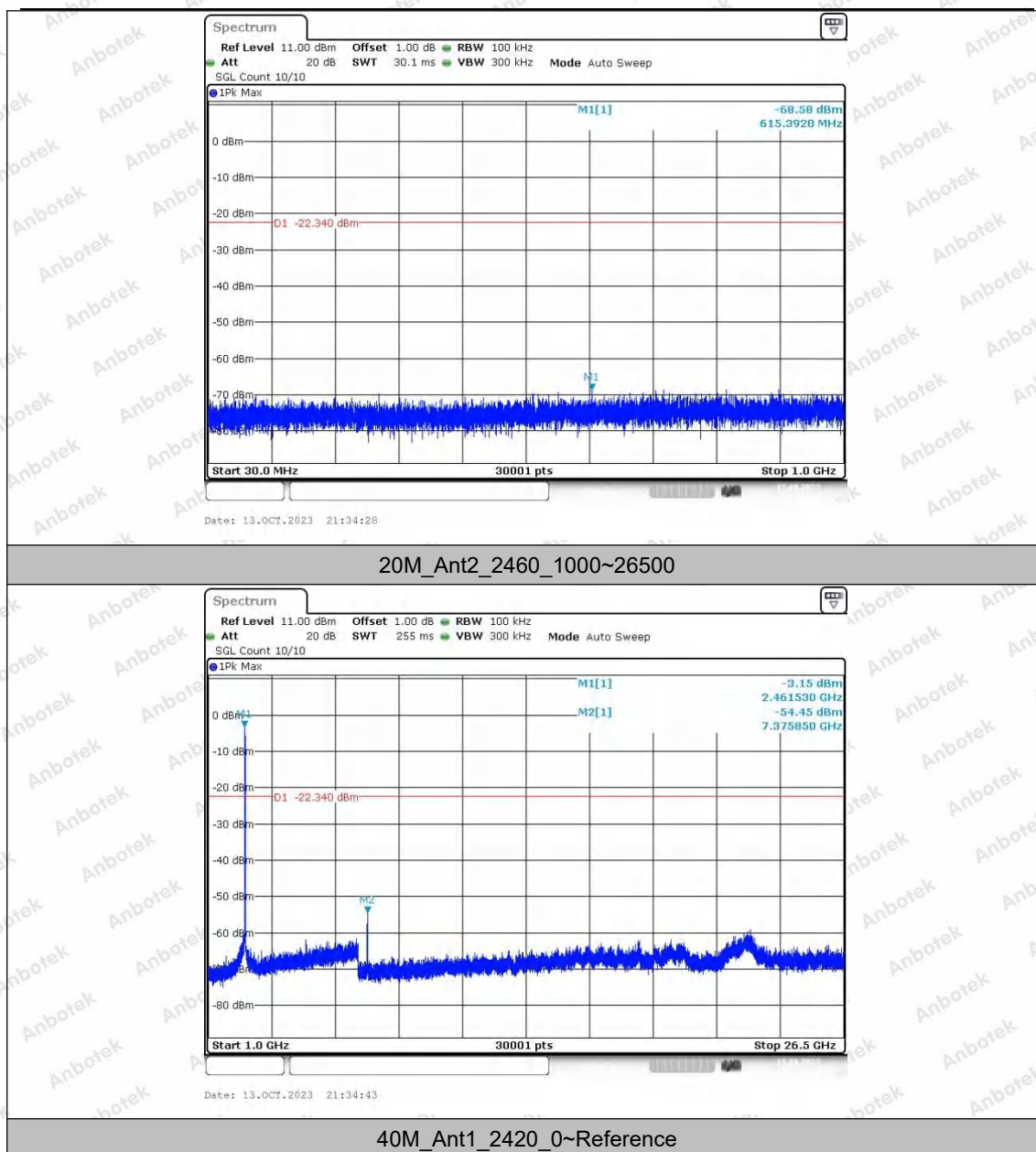
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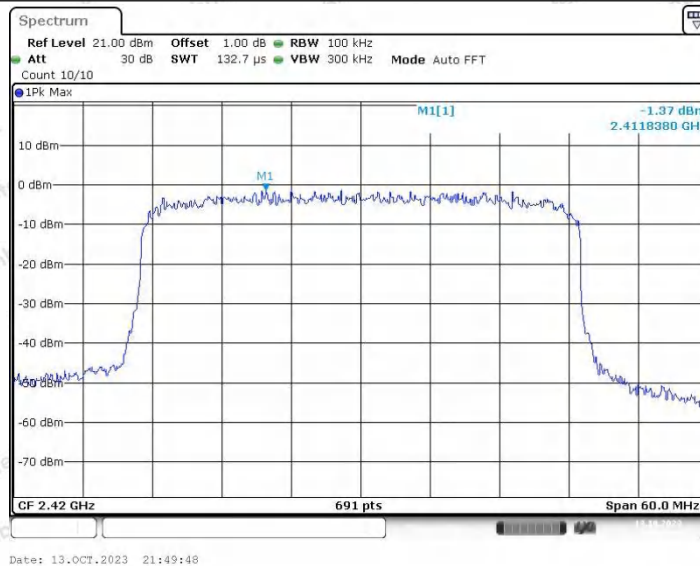
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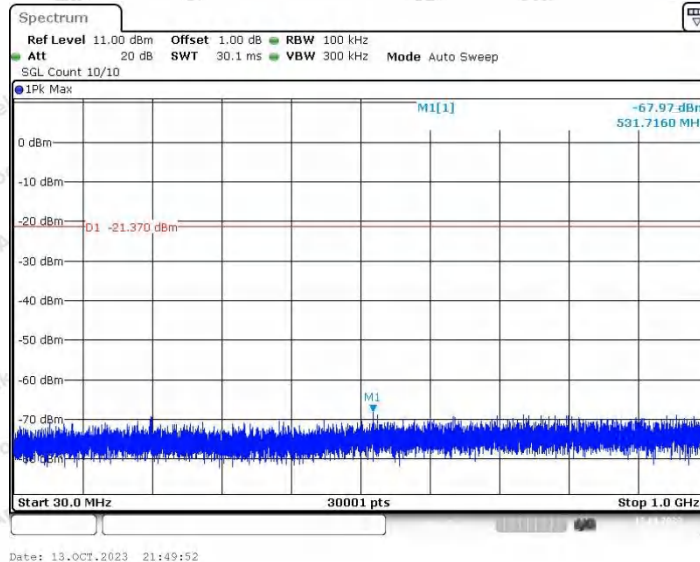


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40M_Ant1_2420_30~1000



40M_Ant1_2420_1000~26500

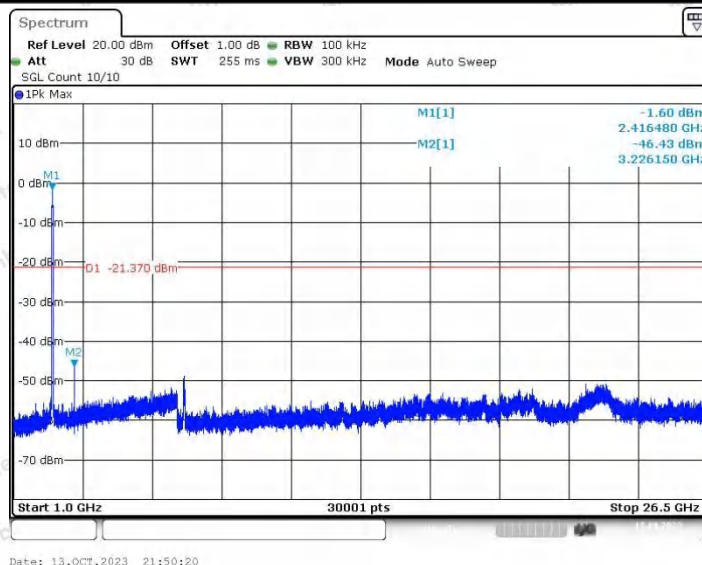
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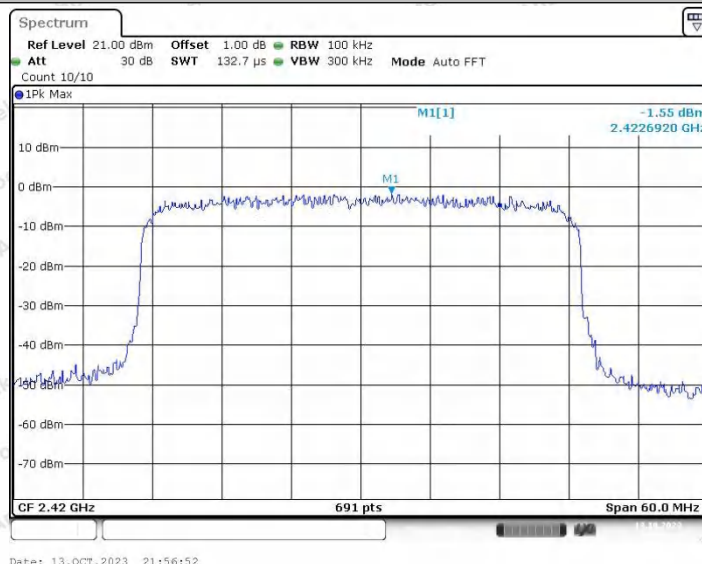


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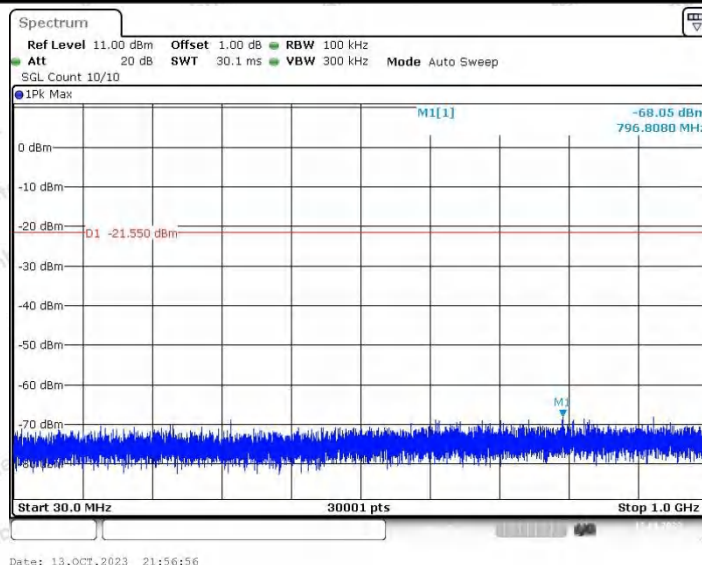


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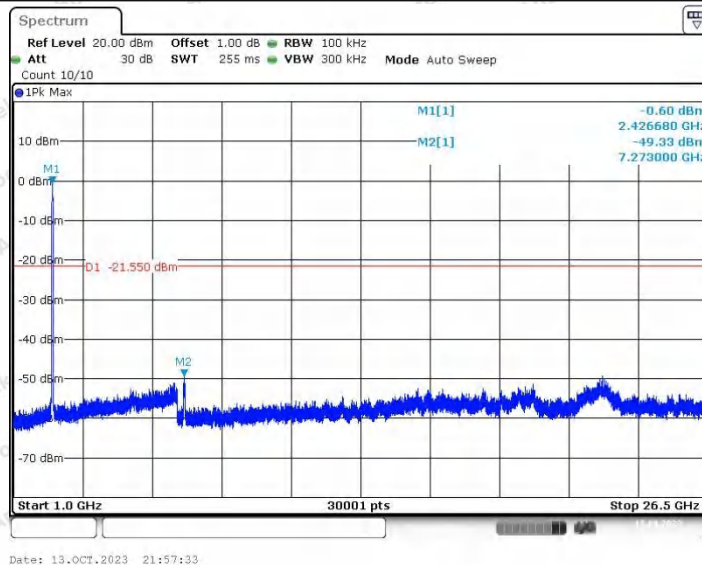


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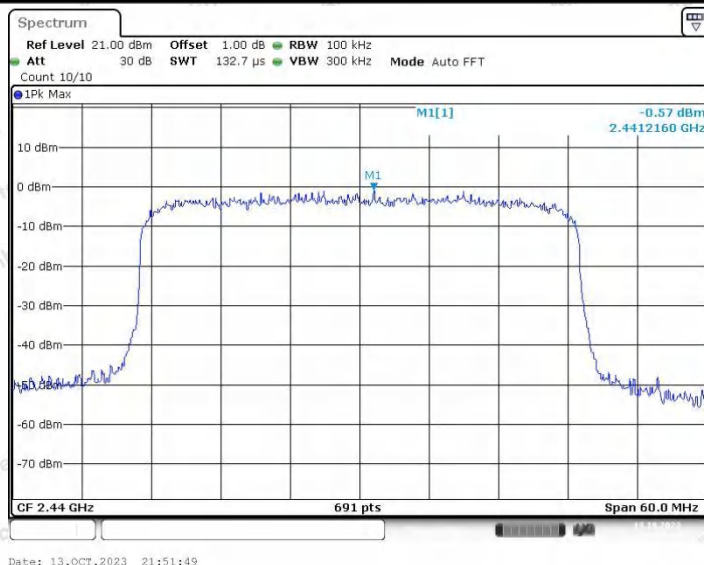


40M_Ant2_2420_1000~26500

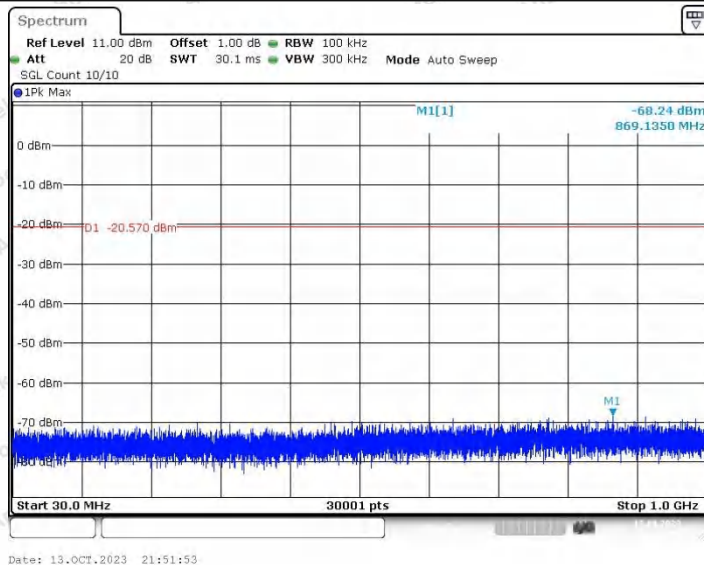


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40M_Ant1_2440_30~1000



40M_Ant1_2440_1000~26500

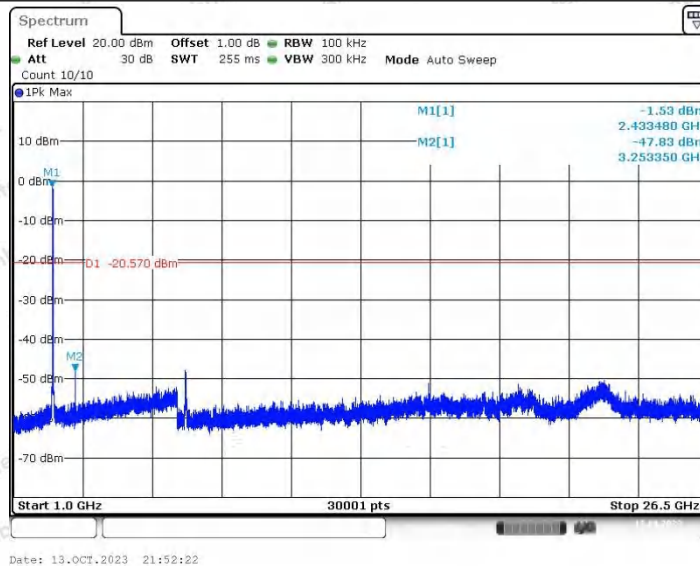
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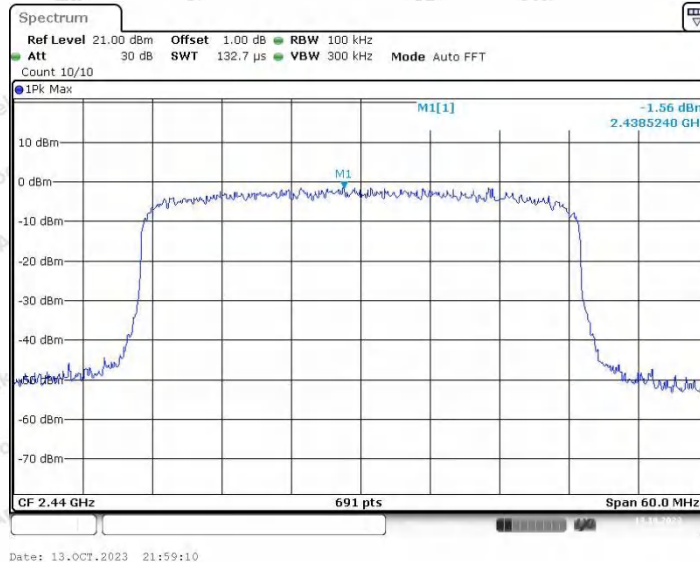


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40M_Ant2_2440_0~Reference



40M_Ant2_2440_30~1000

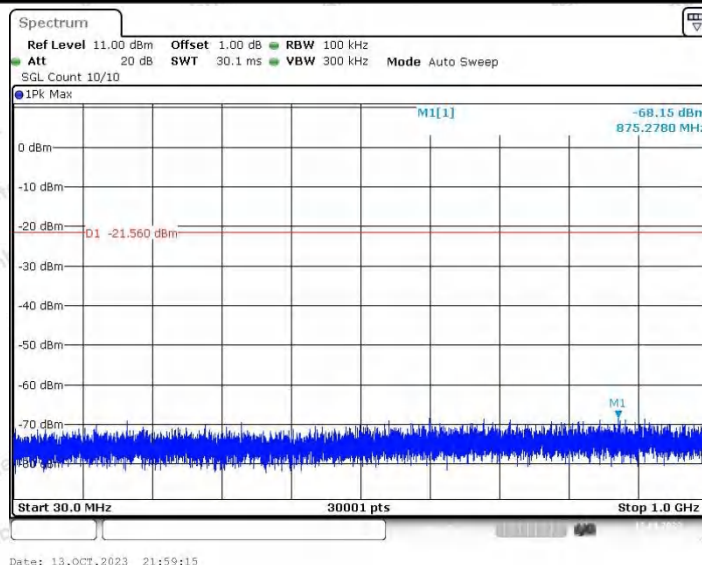
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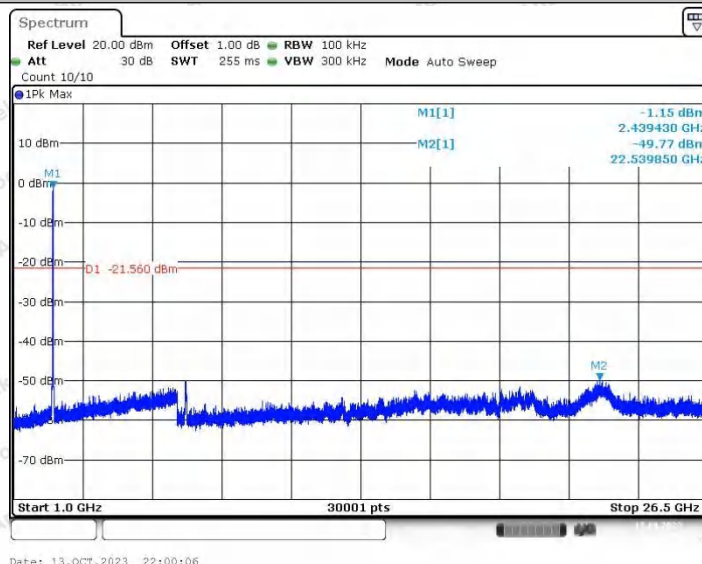


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40M_Ant2_2440_1000~26500



40M_Ant1_2460_0~Reference

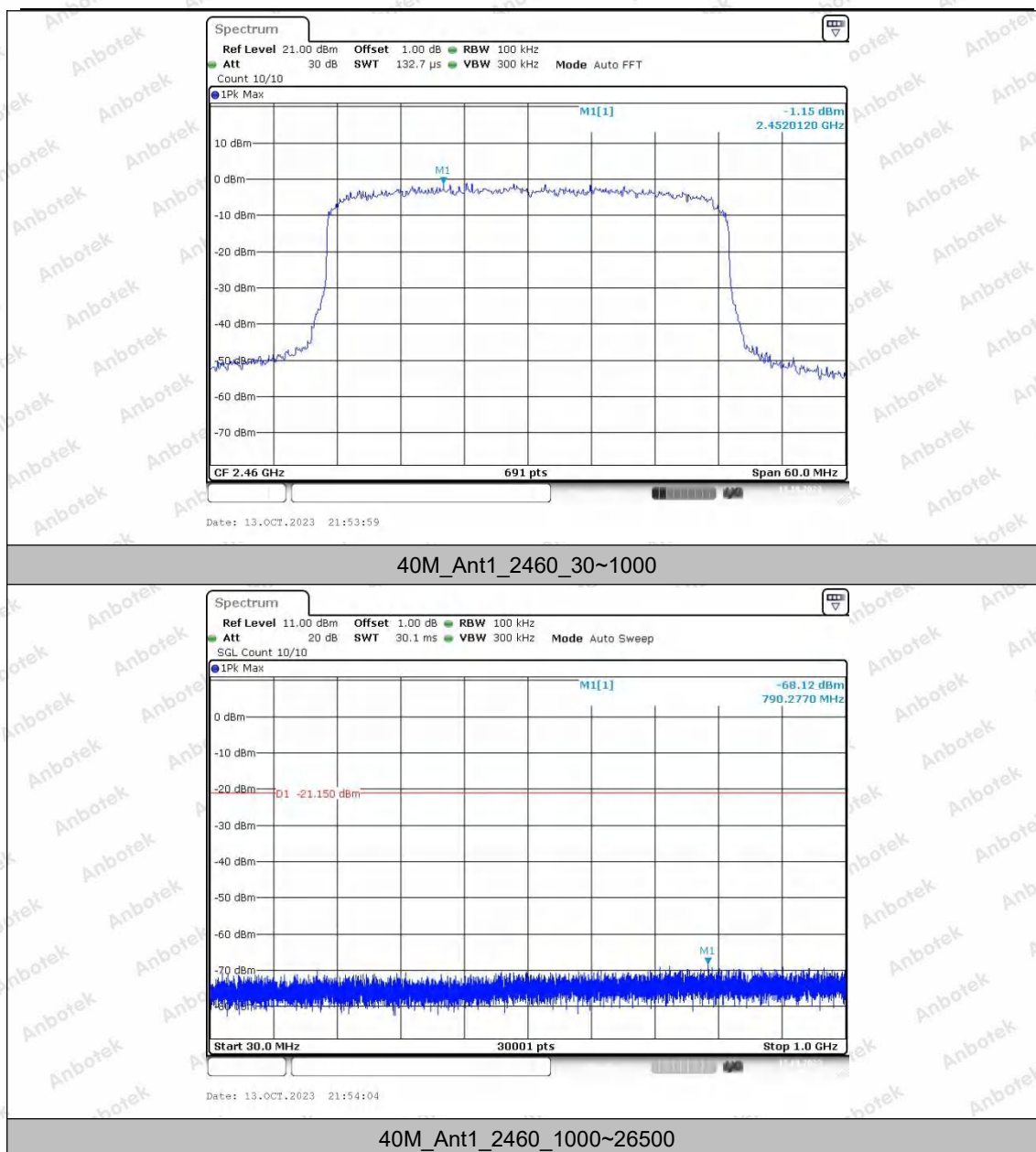
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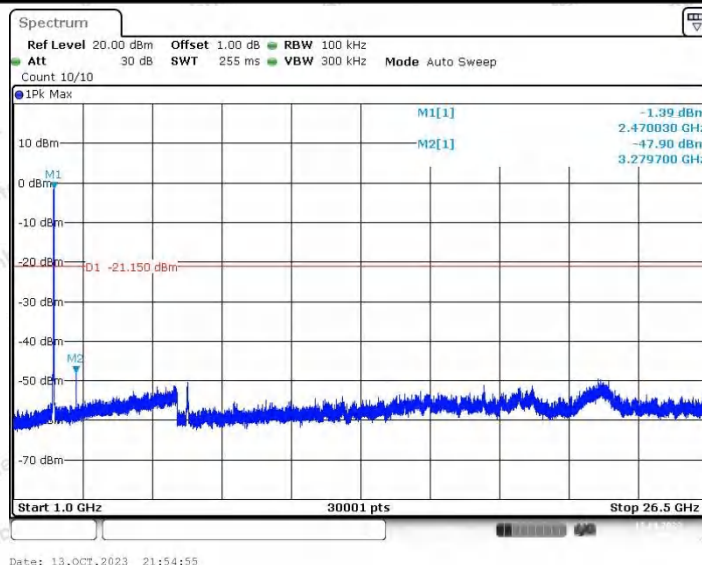
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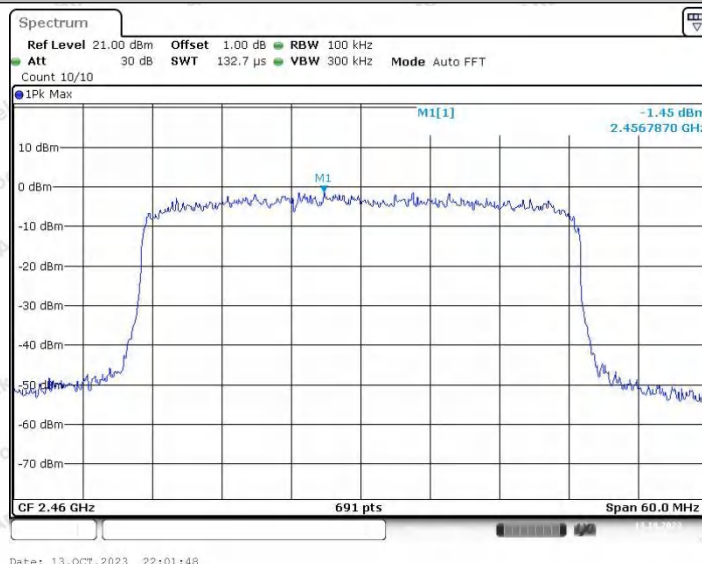


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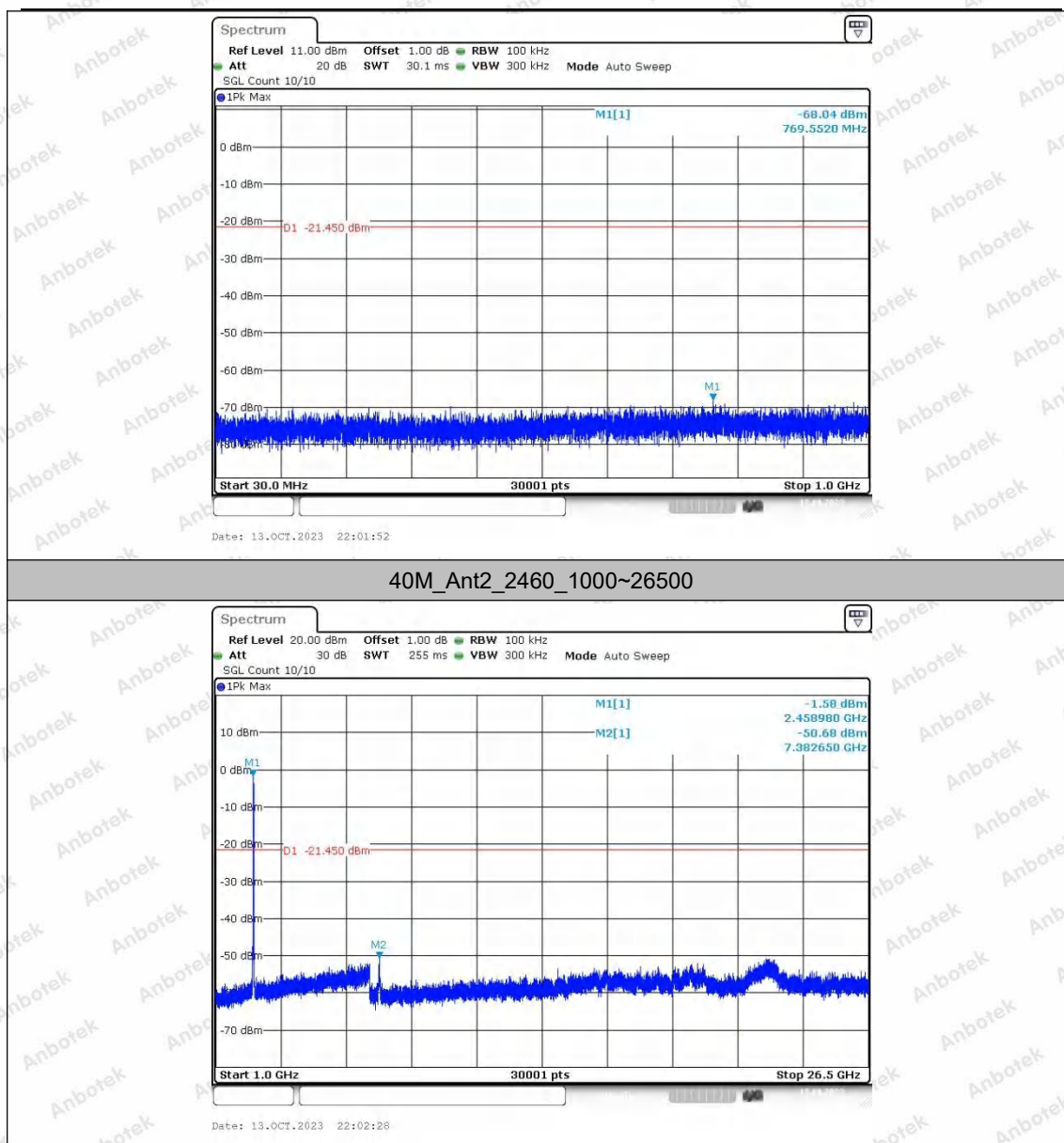


40M_Ant2_2460_0~Reference



40M_Ant2_2460_30~1000





Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
10M	Ant1	2420	1.62	2.22	72.97	1.37
	Ant2	2420	1.62	2.22	72.97	1.37
	Ant1	2440	1.63	2.23	73.09	1.36
	Ant2	2440	1.63	2.23	73.09	1.36
	Ant1	2460	1.62	2.22	72.97	1.37
	Ant2	2460	1.63	2.23	73.09	1.36
20M	Ant1	2420	1.62	2.22	72.97	1.37

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	Ant2	2420	1.62	2.22	72.97	1.37
	Ant1	2440	1.62	2.22	72.97	1.37
	Ant2	2440	1.62	2.22	72.97	1.37
	Ant1	2460	1.62	2.22	72.97	1.37
	Ant2	2460	1.62	2.22	72.97	1.37
40M	Ant1	2420	0.81	1.41	57.45	2.41
	Ant2	2420	0.81	1.41	57.45	2.41
	Ant1	2440	0.82	1.42	57.75	2.38
	Ant2	2440	0.81	1.41	57.45	2.41
	Ant1	2460	0.81	1.41	57.45	2.41
	Ant2	2460	0.81	1.41	57.45	2.41

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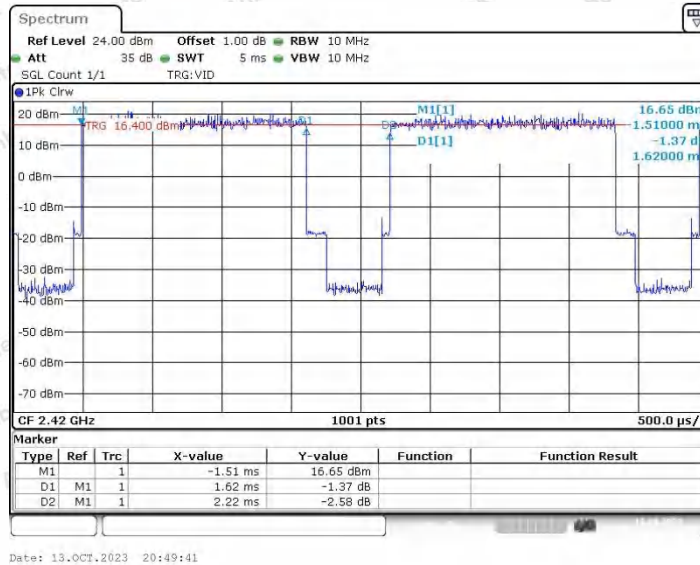
400-003-0500

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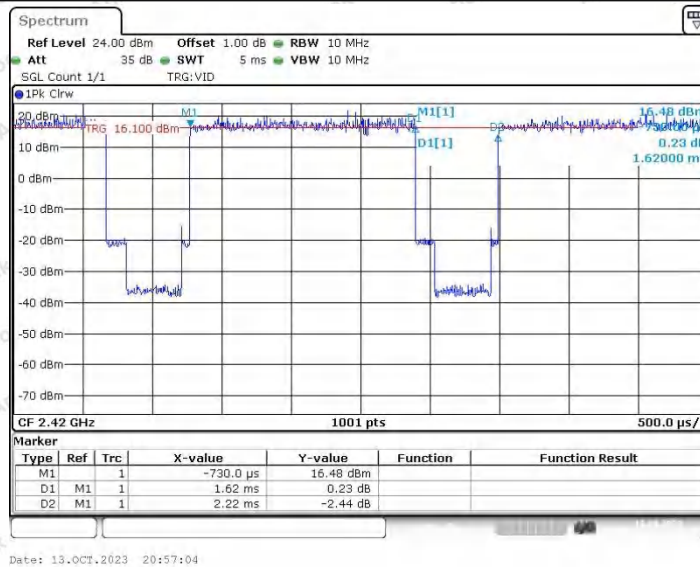


Test Graphs

10M_Ant1_2420



10M_Ant2_2420



10M_Ant1_2440

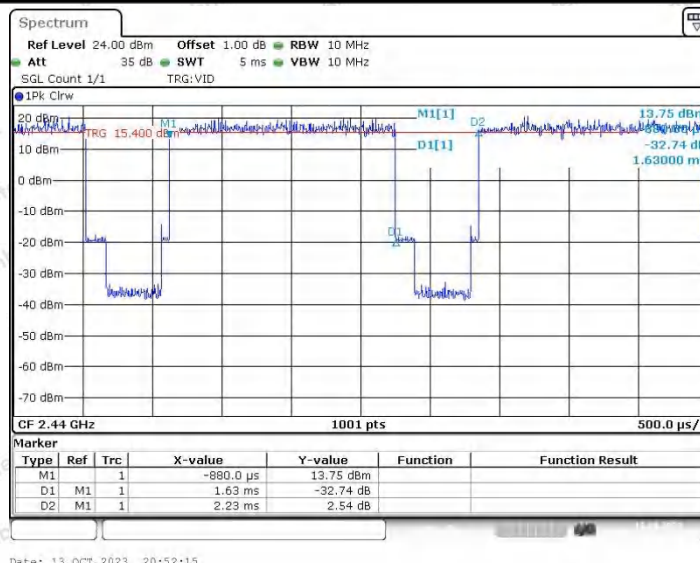
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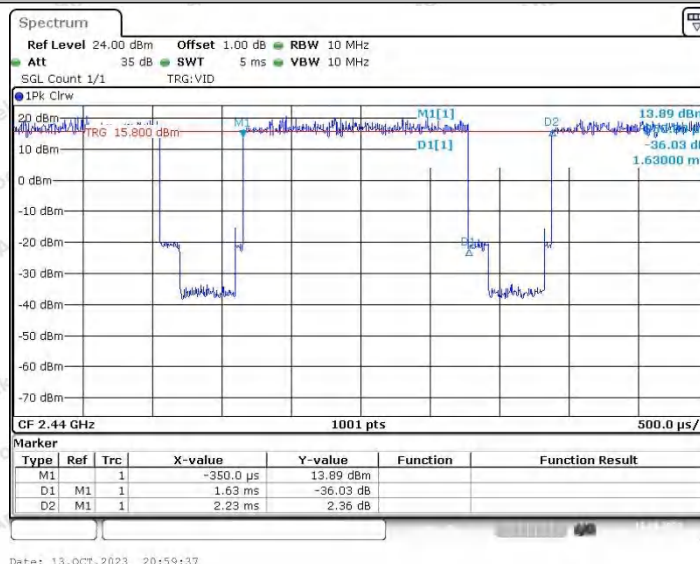


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10M_Ant2_2440



10M_Ant1_2460

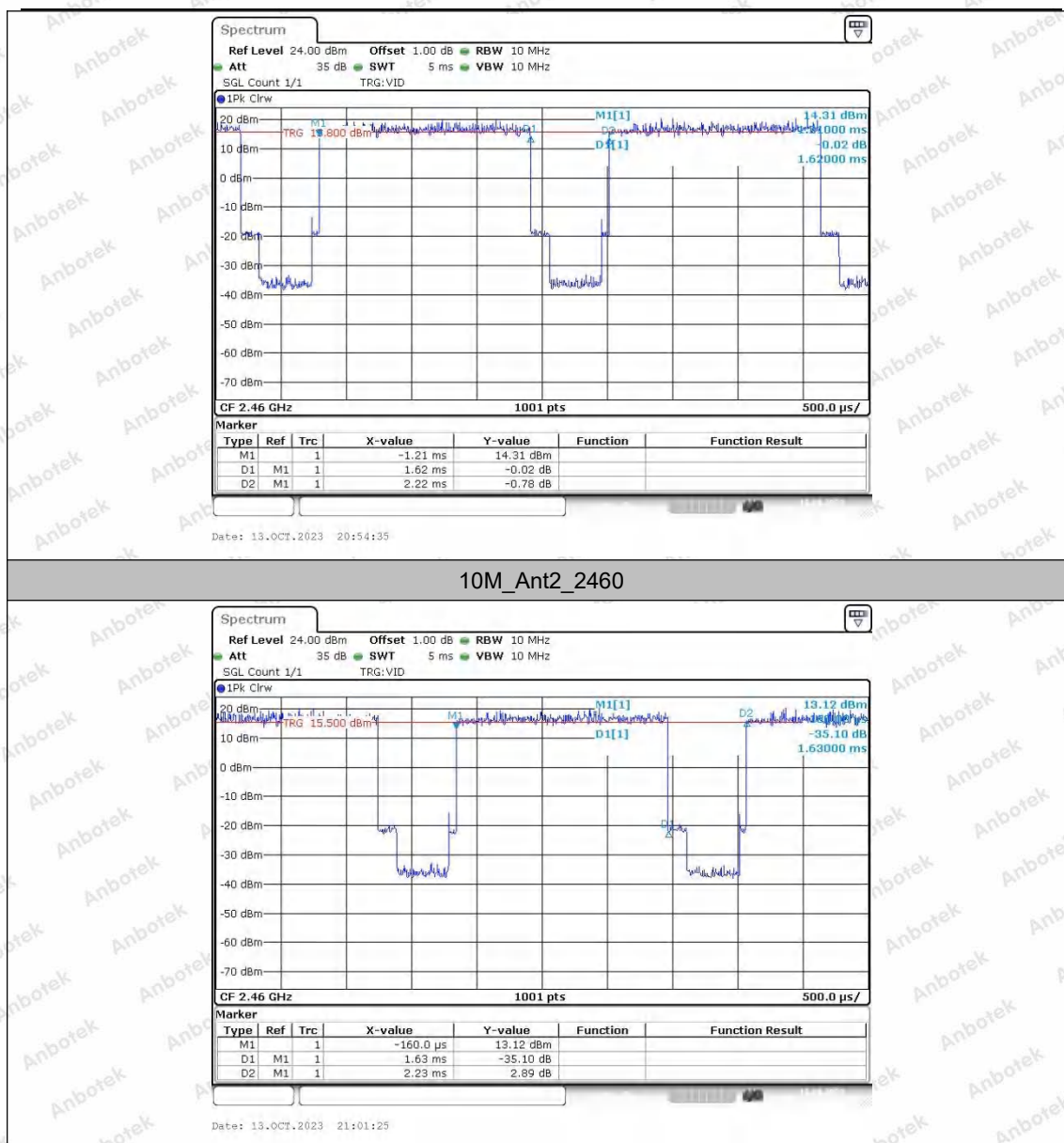
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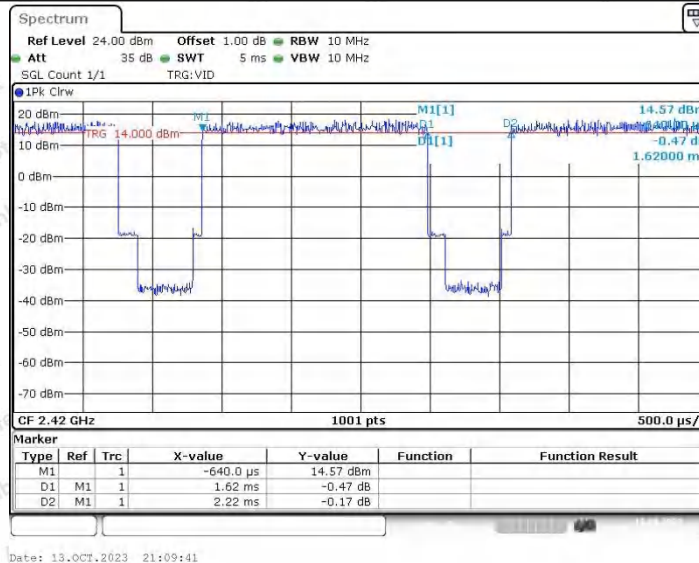
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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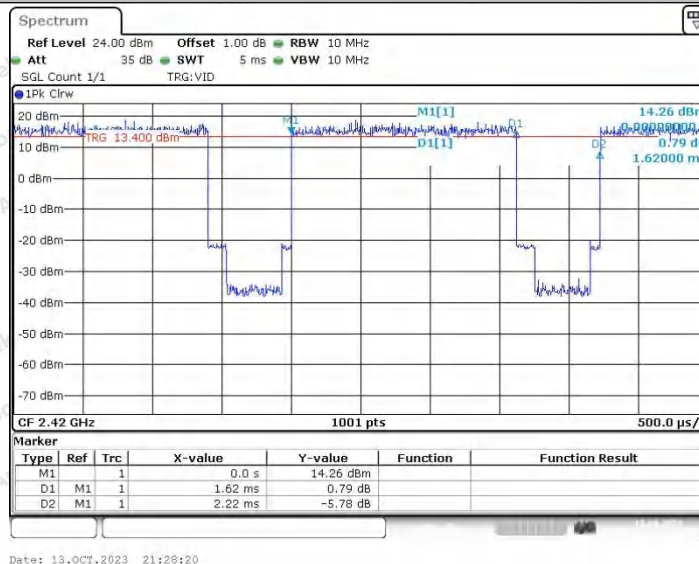
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20M_Ant1_2420



20M_Ant2_2420



20M_Ant1_2440

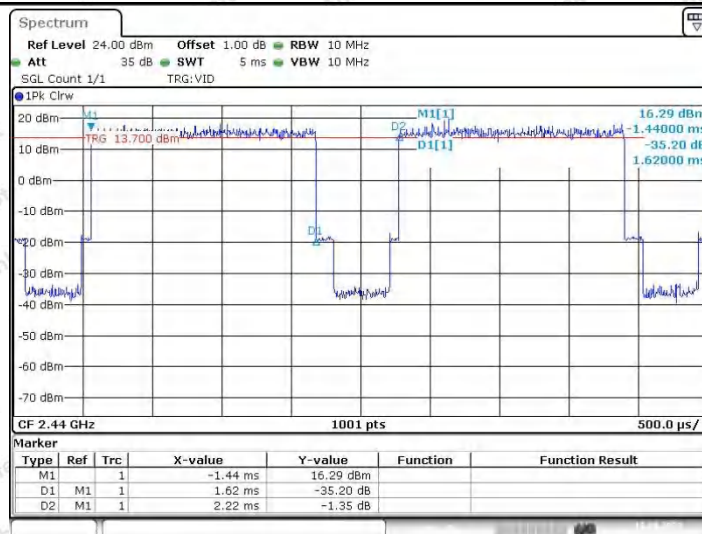
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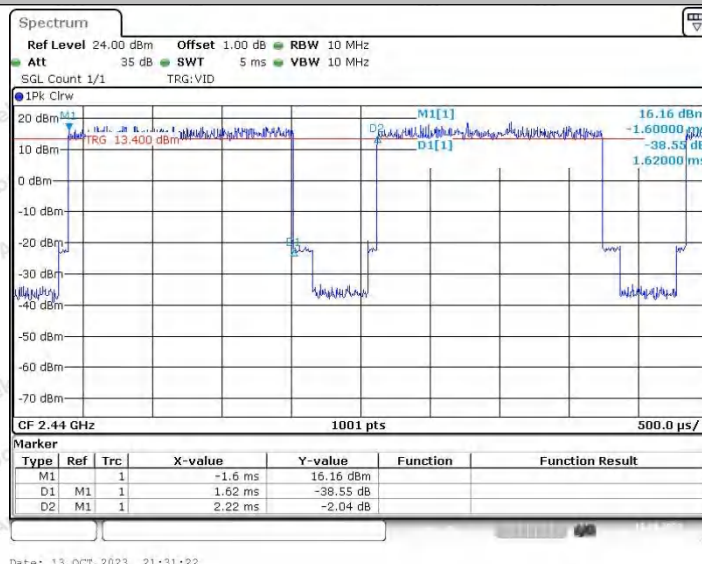


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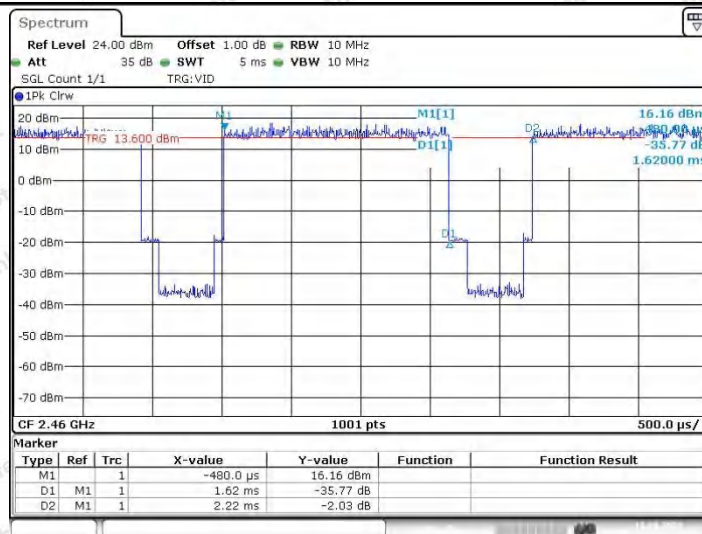


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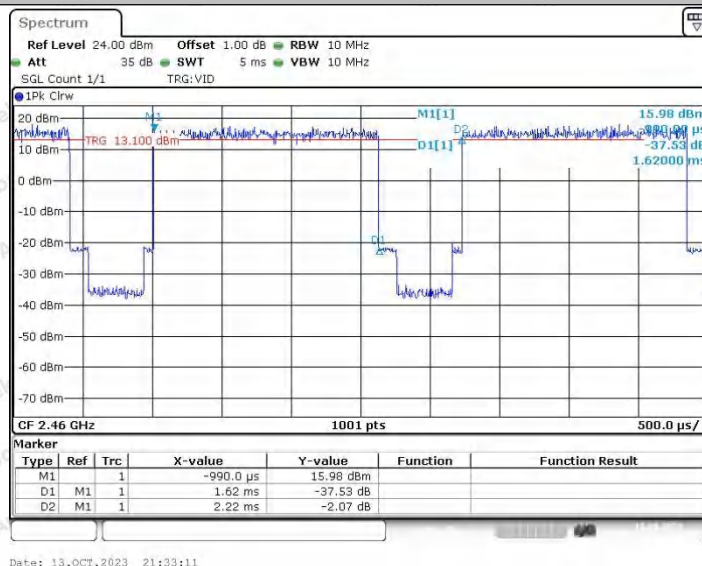


20M_Ant1_2460



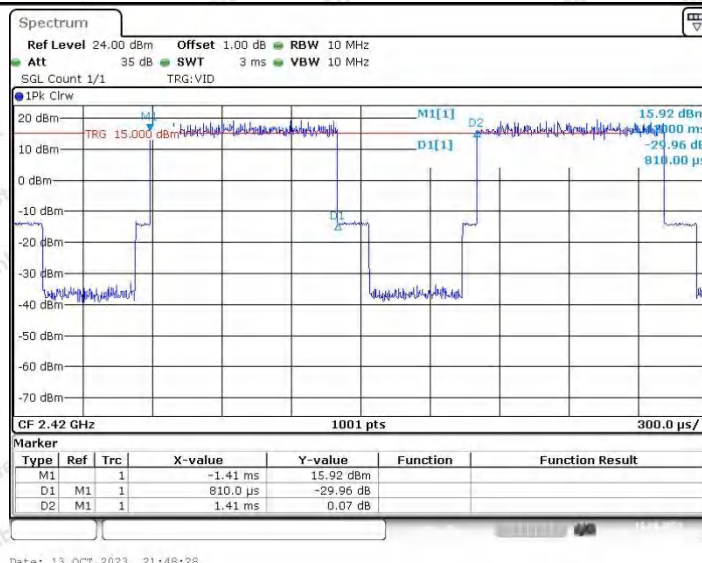


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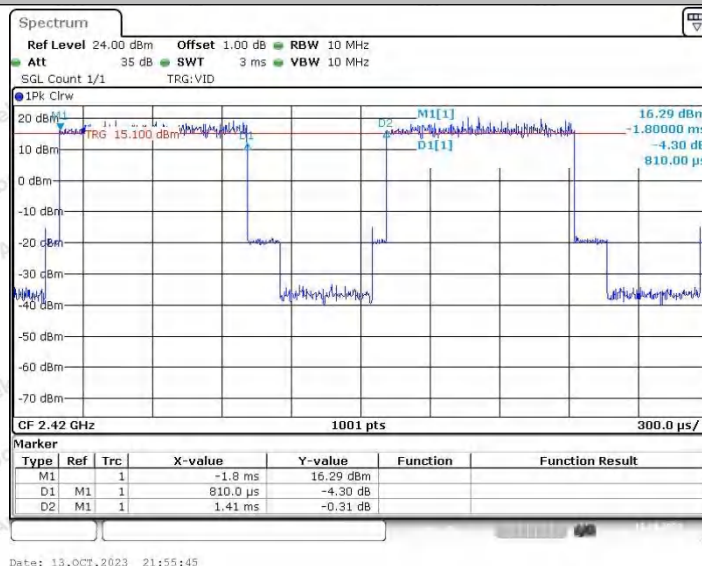


40M_Ant1_2420





40M_Ant2_2420



40M_Ant1_2440

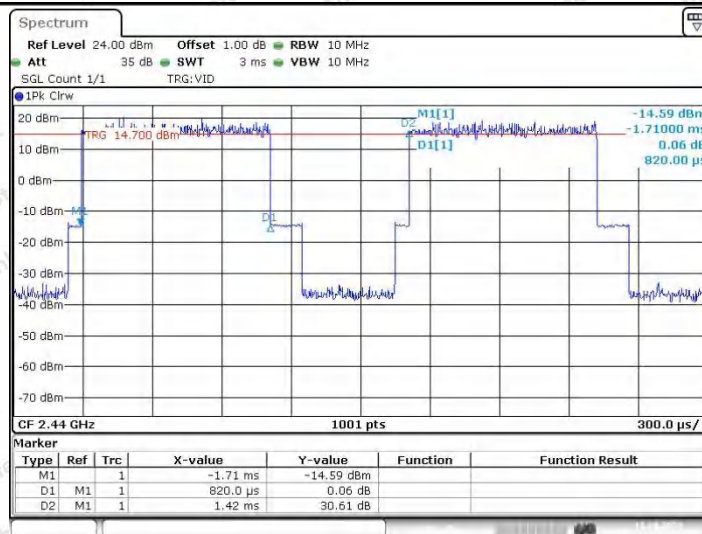
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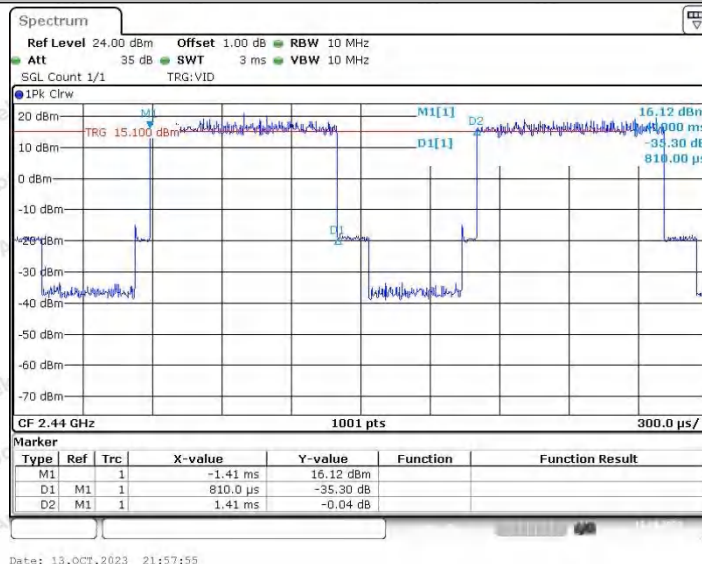


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40M_Ant2_2440



40M_Ant1_2460

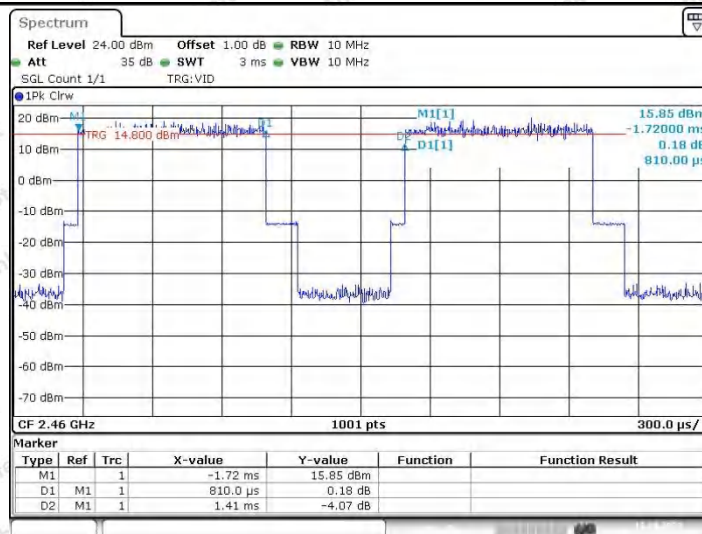
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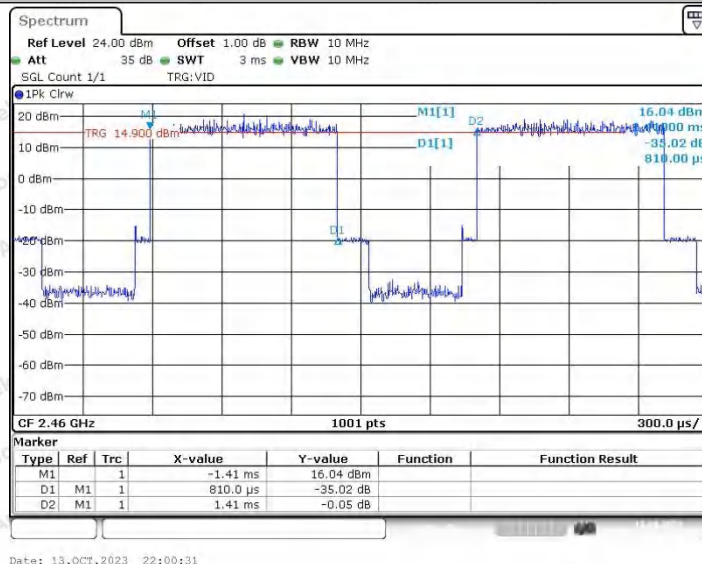


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40M_Ant2_2460



---End---

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