

Appendix Test Data

Report No.:	18220WC20280401	Test Sample No.:	1-2-2
Start Test Date:	2022.12.12	Finish Test Date:	2022.12.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	35 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.688	2402.356	0.5	PASS
		2440	0.636	2439.700	2440.336	0.5	PASS
		2480	0.616	2479.712	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.460	2402.604	0.5	PASS
		2440	0.992	2439.576	2440.568	0.5	PASS
		2480	1.256	2479.332	2480.588	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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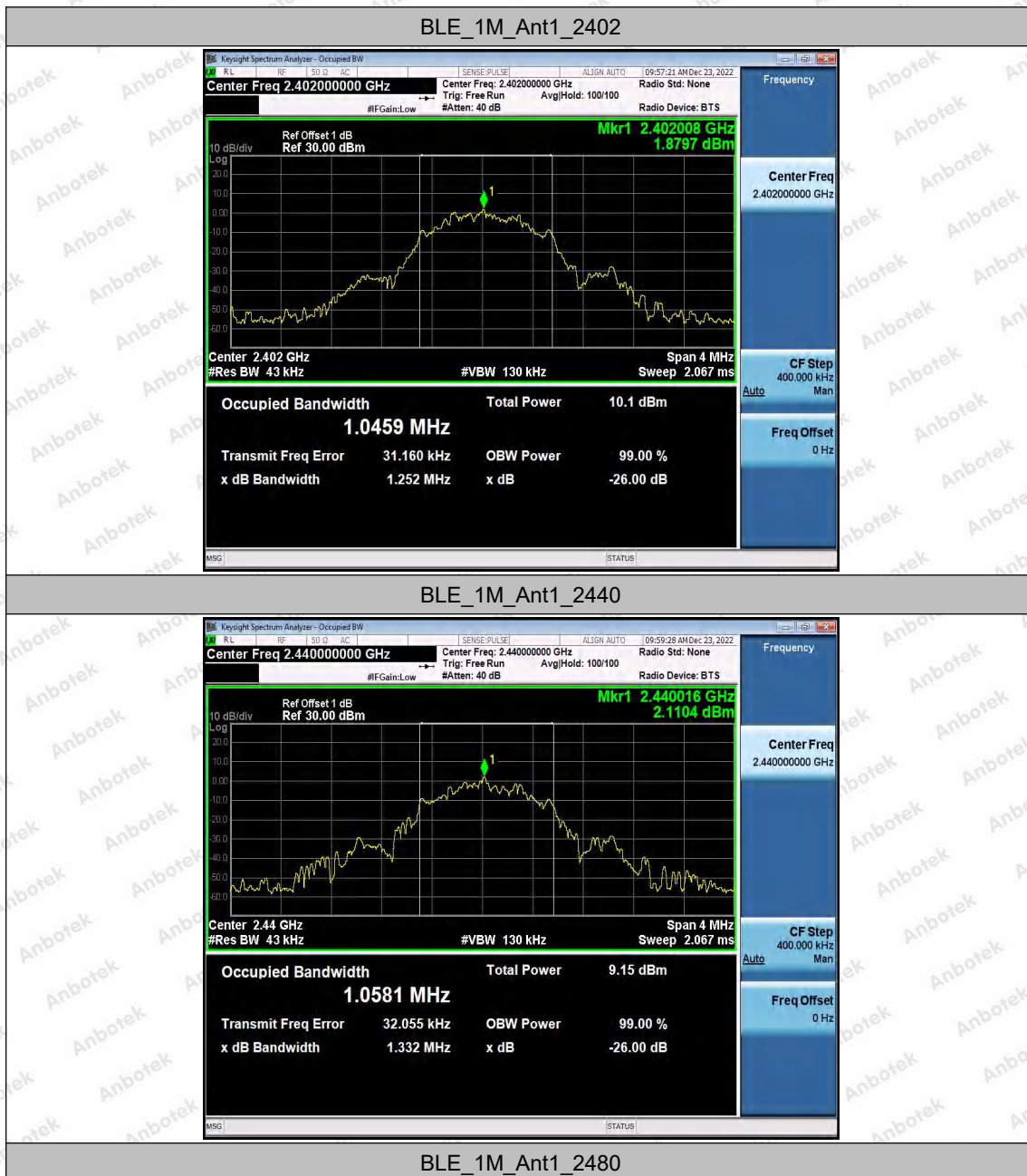
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0459	2401.5082	2402.5541
		2440	1.0581	2439.5030	2440.5611
		2480	1.2131	2479.3477	2480.5608
BLE_2M	Ant1	2402	2.0891	2400.9708	2403.0599
		2440	2.0819	2438.9928	2441.0747
		2480	2.0598	2479.0071	2481.0669



Test Graphs



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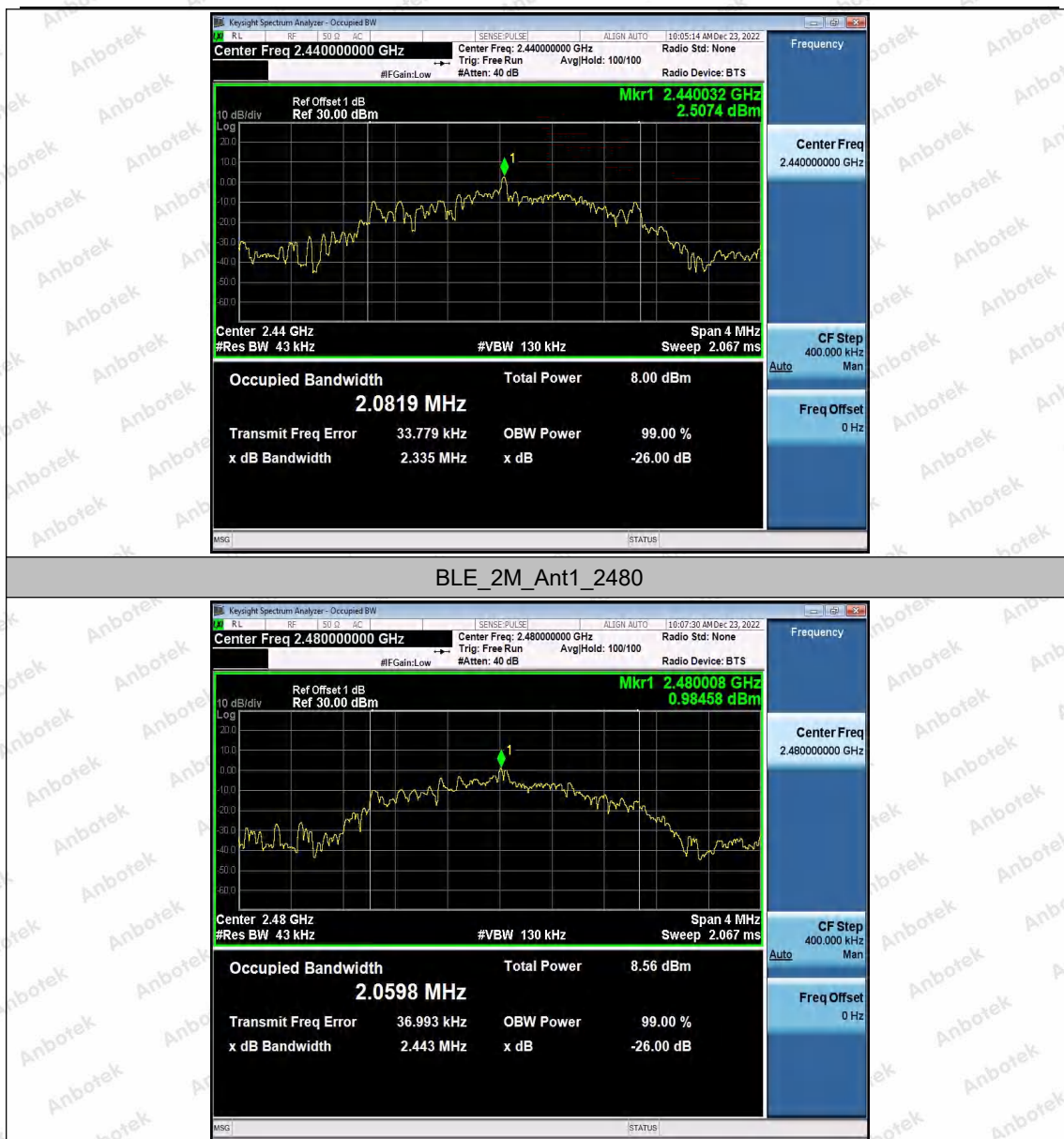
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Antenna Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.45	≤30	2.09	6.54	≤36	PASS
		2440	3.91	≤30	2.09	6.00	≤36	PASS
		2480	3.82	≤30	2.09	5.91	≤36	PASS
BLE_2M	Ant1	2402	4.50	≤30	2.09	6.59	≤36	PASS
		2440	3.95	≤30	2.09	6.04	≤36	PASS
		2480	3.94	≤30	2.09	6.03	≤36	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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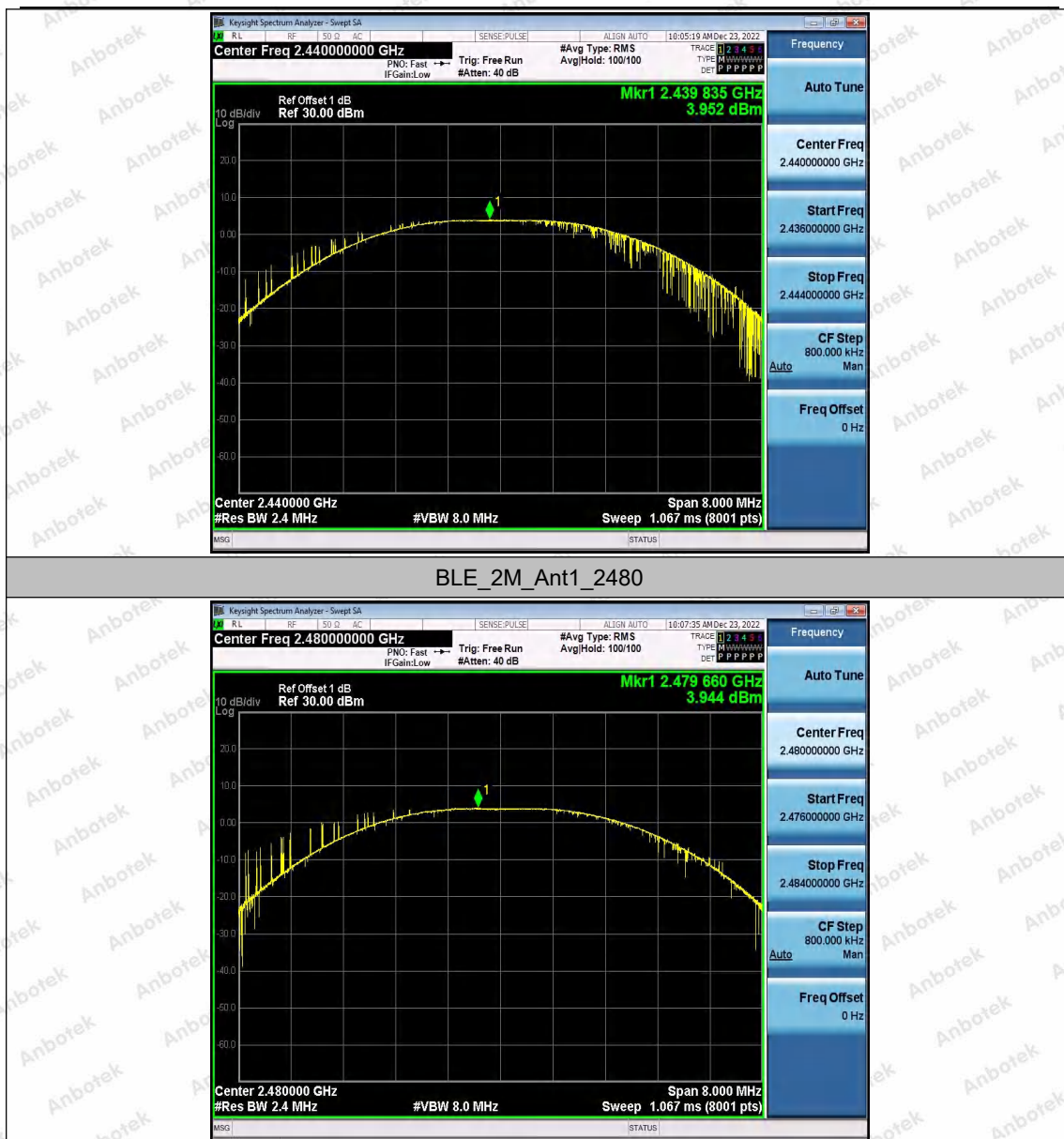


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.40	≤8.00	PASS
		2440	-9.10	≤8.00	PASS
		2480	-9.01	≤8.00	PASS
BLE_2M	Ant1	2402	-12.61	≤8.00	PASS
		2440	-13.35	≤8.00	PASS
		2480	-13.52	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

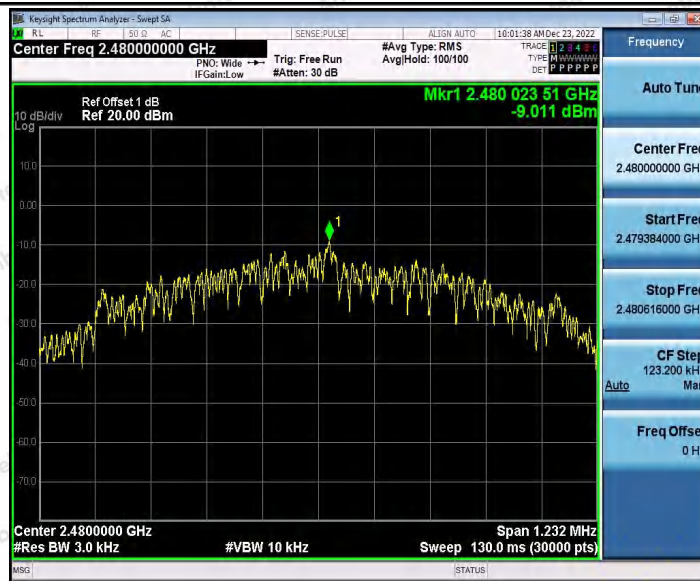
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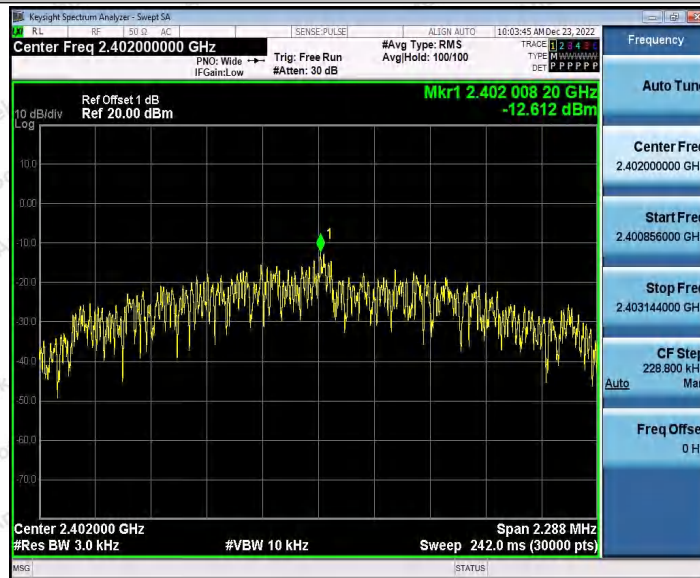


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

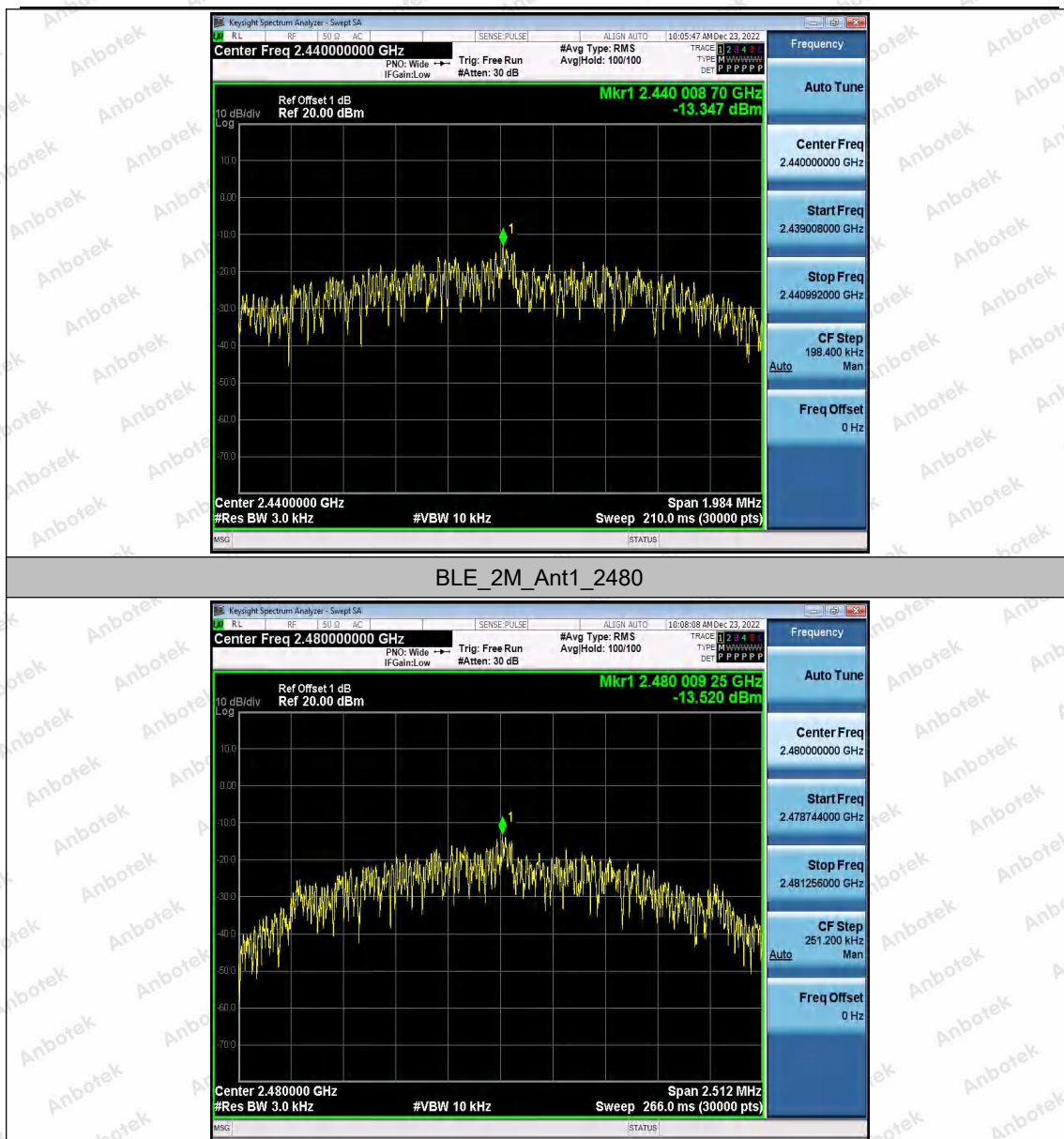
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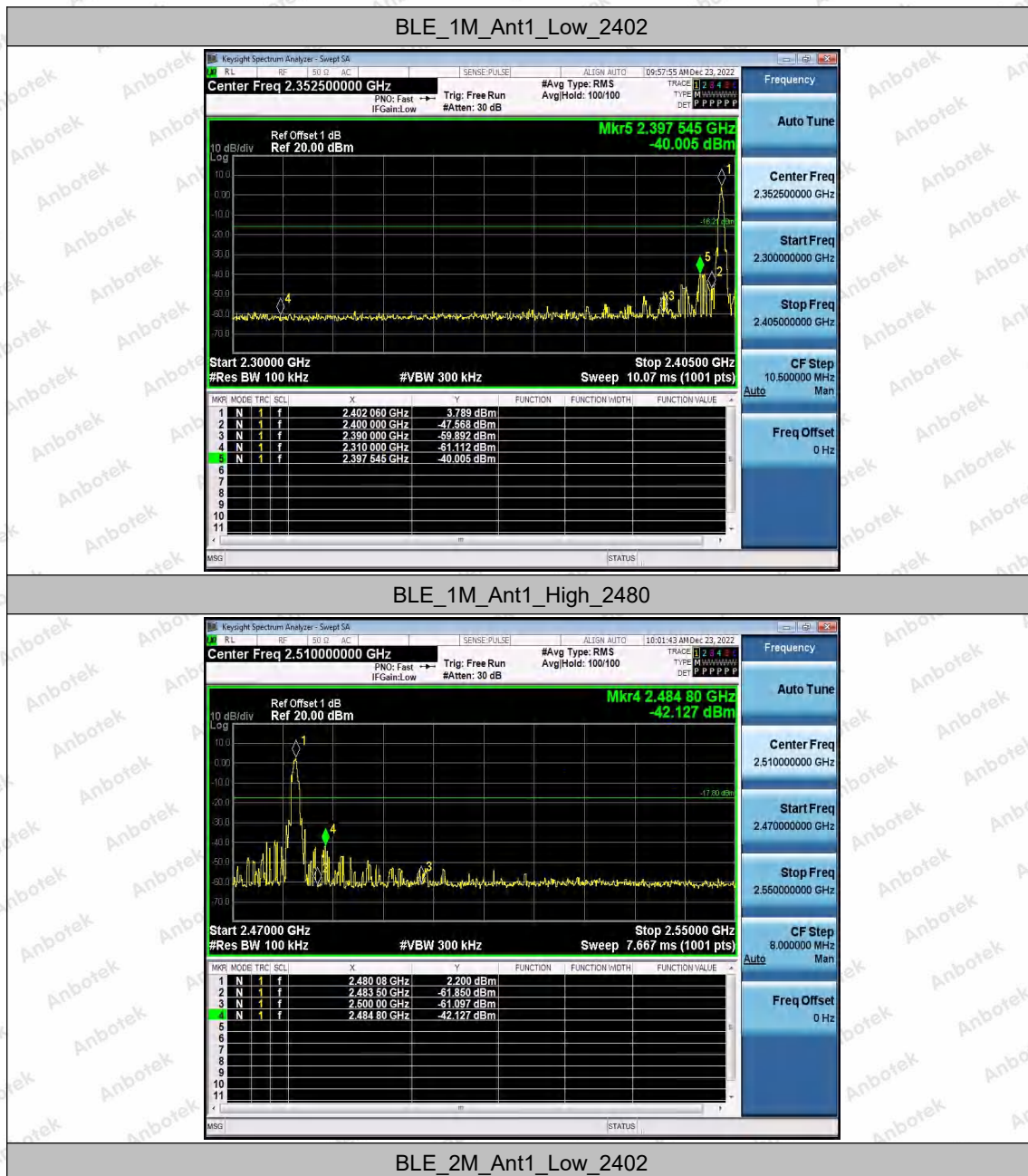
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.79	-40.01	≤-16.21	PASS
		High	2480	2.20	-42.13	≤-17.8	PASS
BLE_2M	Ant1	Low	2402	3.74	-28.2	≤-16.26	PASS
		High	2480	3.33	-43.07	≤-16.67	PASS



Test Graphs



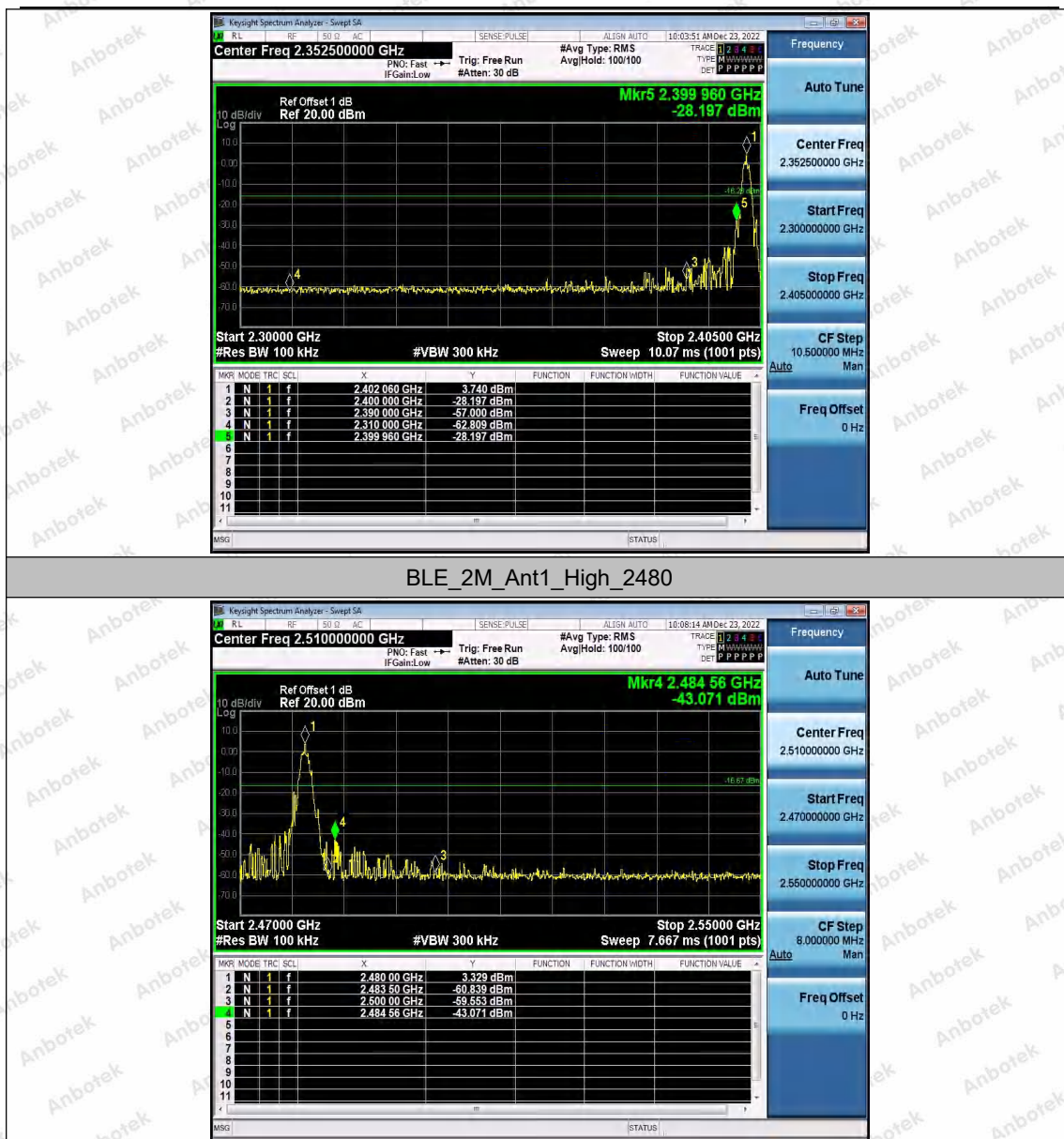
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.99	3.99	---	PASS
			30~1000	3.99	-64.08	≤-16.01	PASS
			1000~26500	3.99	-41.45	≤-16.01	PASS
		2440	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-64.04	≤-16.63	PASS
			1000~26500	3.37	-39.1	≤-16.63	PASS
		2480	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-66.25	≤-16.51	PASS
			1000~26500	3.49	-39.4	≤-16.51	PASS
BLE_2M	Ant1	2402	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-64.86	≤-17.84	PASS
			1000~26500	2.16	-42.03	≤-17.84	PASS
		2440	Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-66.45	≤-22.76	PASS
			1000~26500	-2.76	-38.42	≤-22.76	PASS
		2480	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-64.85	≤-16.88	PASS
			1000~26500	3.12	-38.61	≤-16.88	PASS

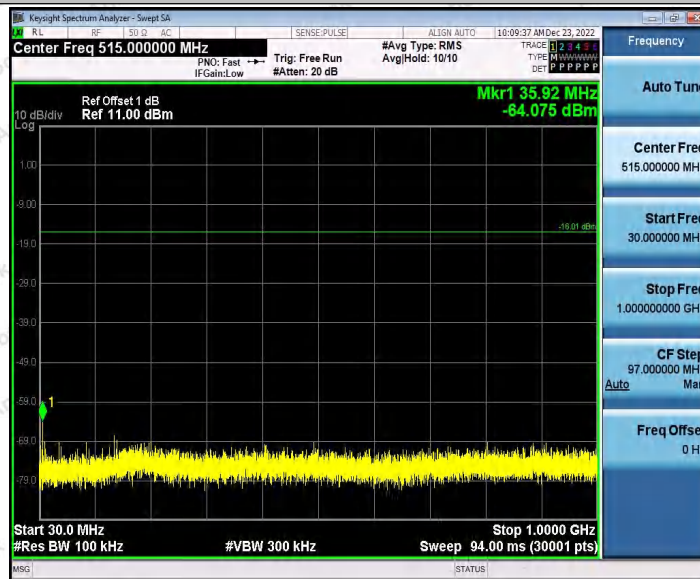


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

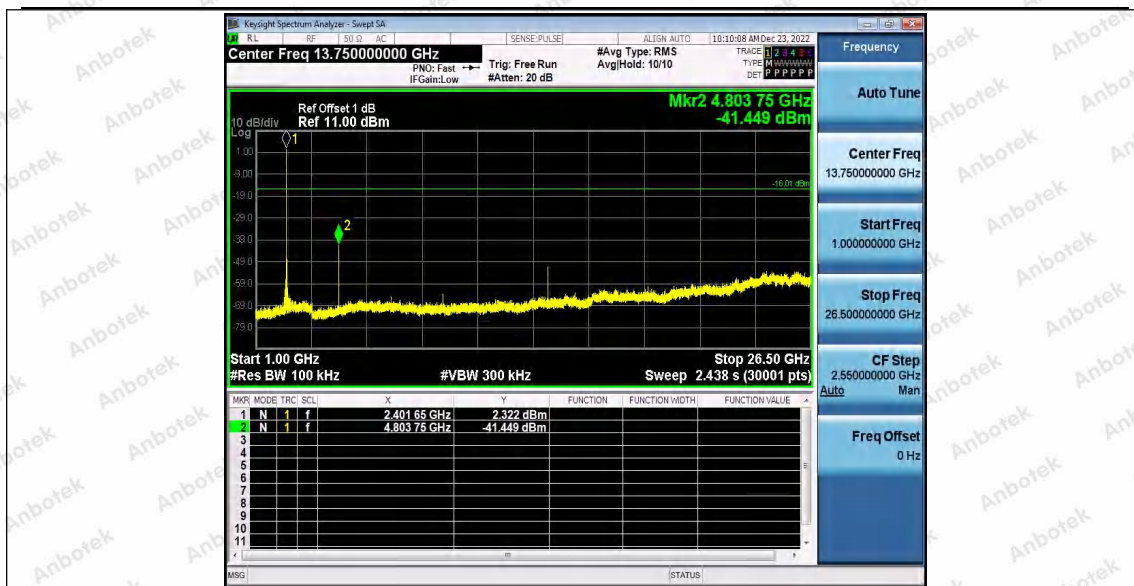
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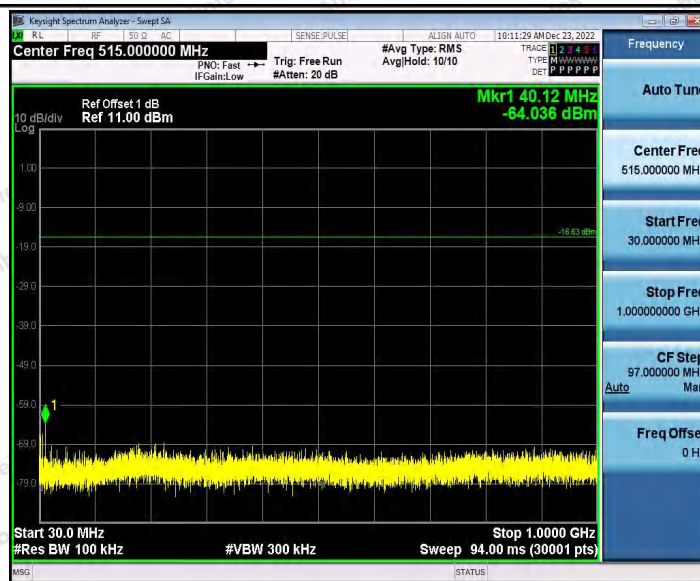


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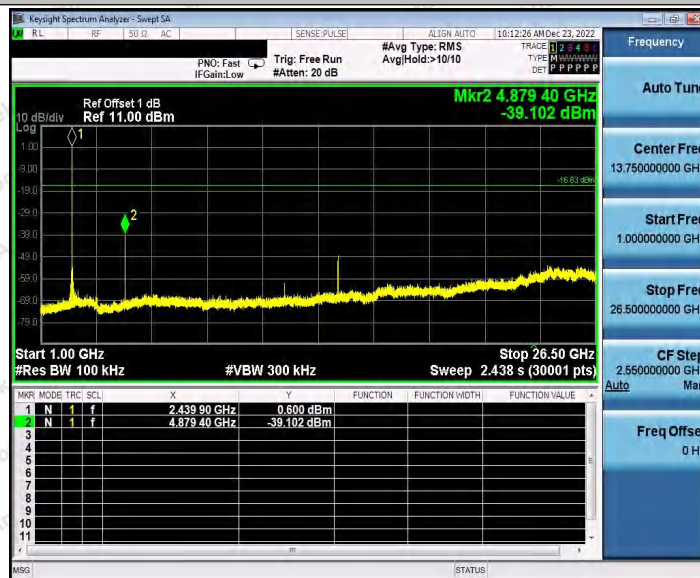


BLE_1M_Ant1_2440_30~1000



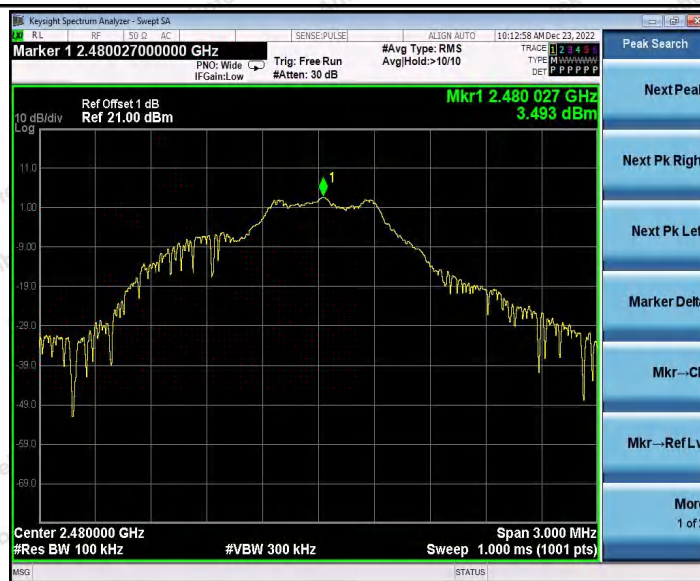


BLE_1M_Ant1_2440_1000~26500

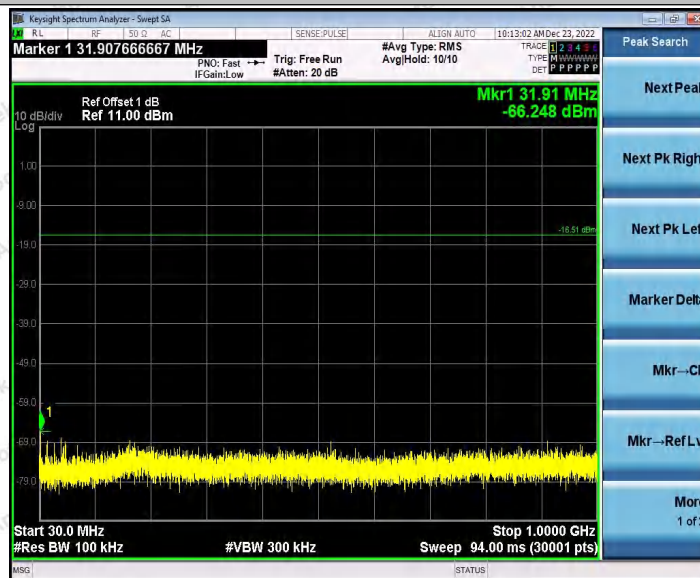


BLE_1M_Ant1_2480_0~Reference





BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

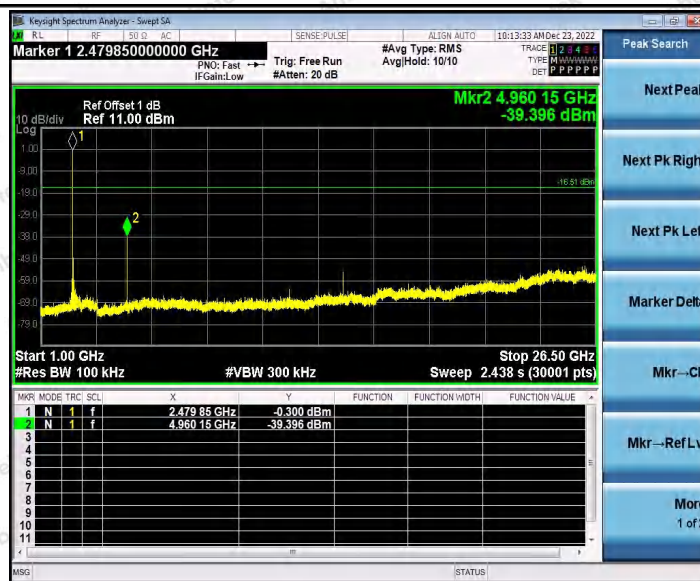
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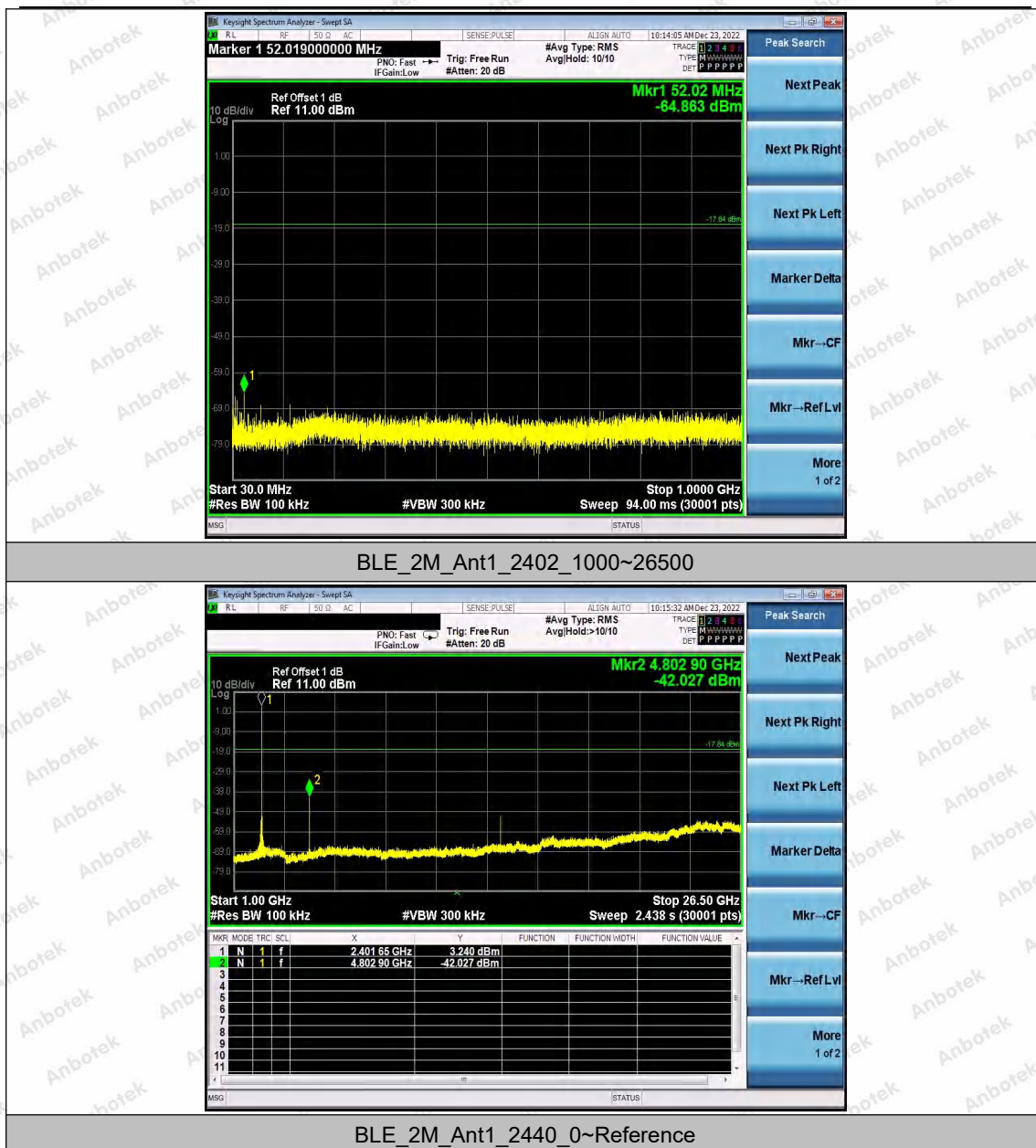


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



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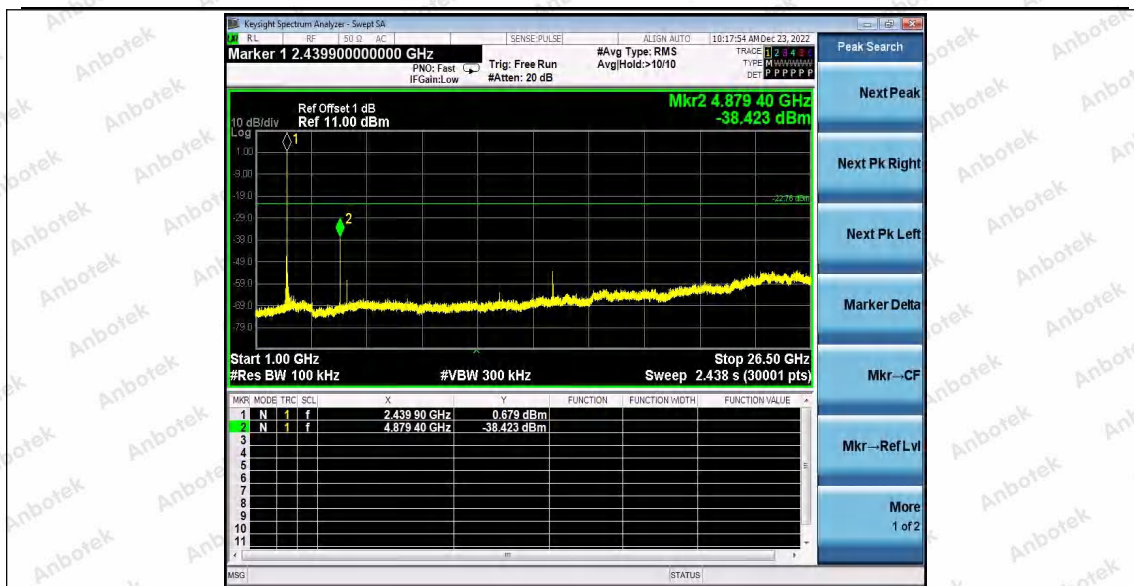
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

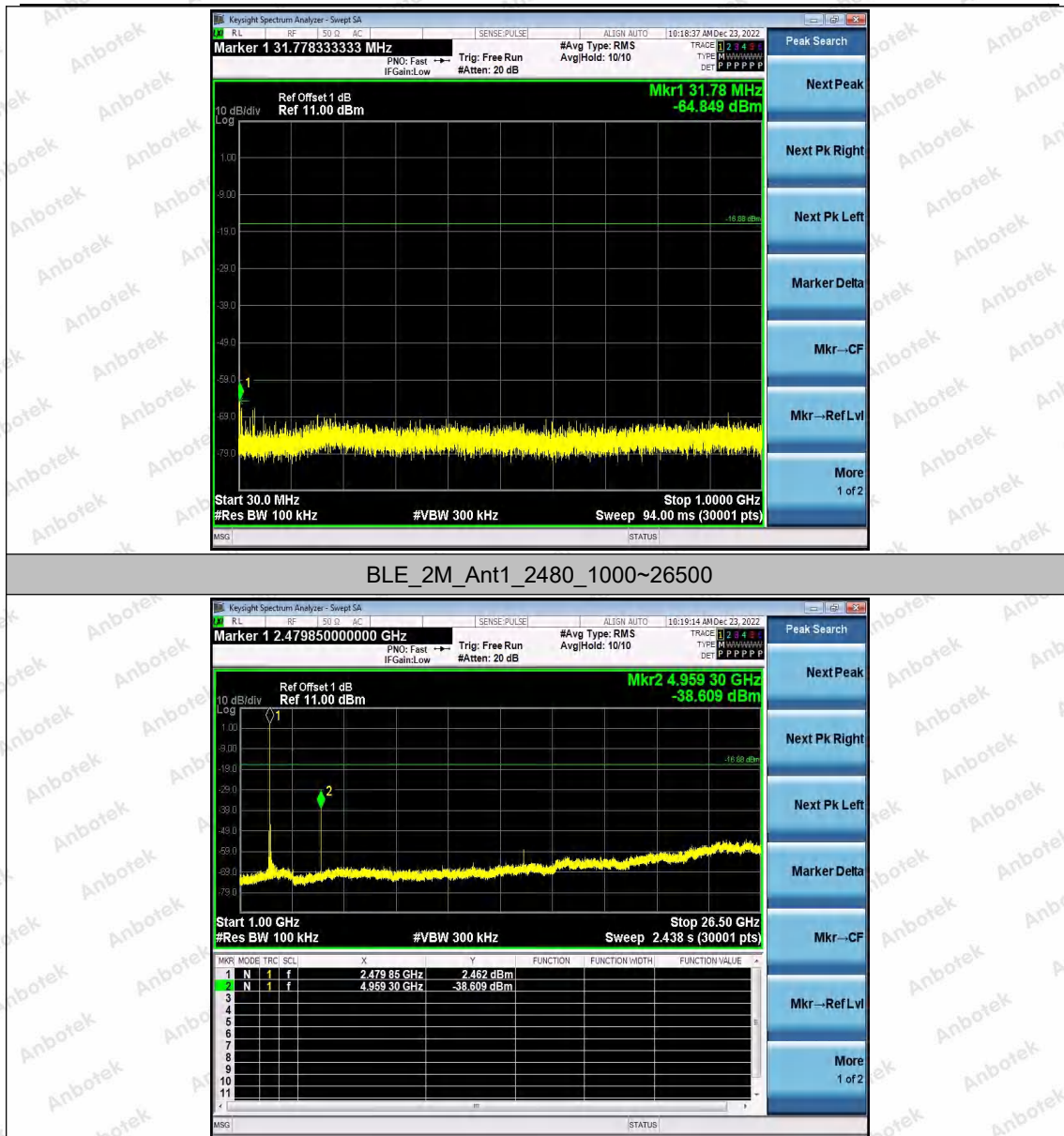
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Appendix G: Duty Cycle

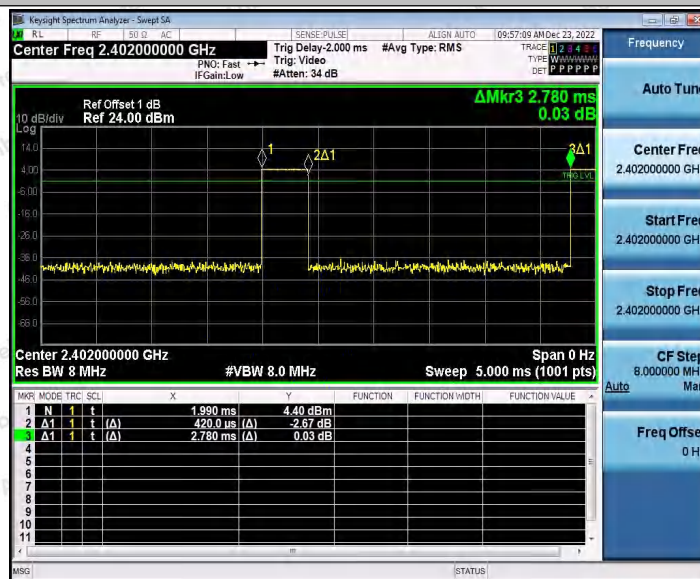
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.42	2.78	15.11	8.21
		2440	0.42	2.78	15.11	8.21
		2480	0.42	2.78	15.11	8.21
BLE_2M	Ant1	2402	0.21	2.57	8.17	10.88
		2440	0.21	2.57	8.17	10.88
		2480	0.21	2.57	8.17	10.88

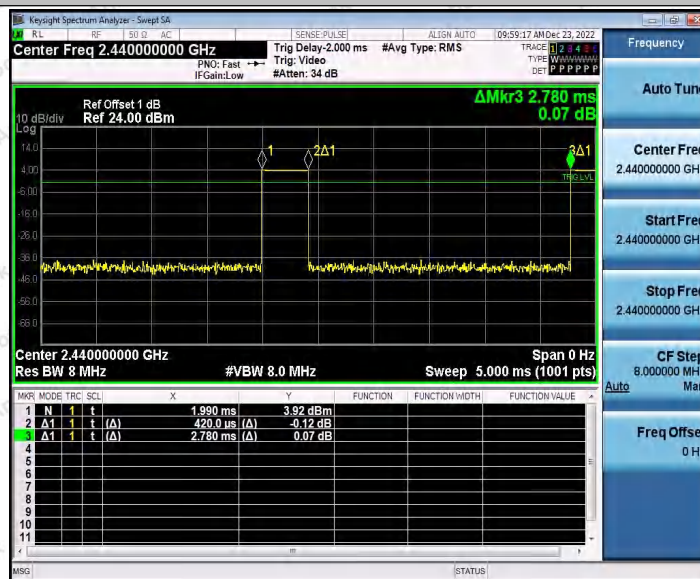


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

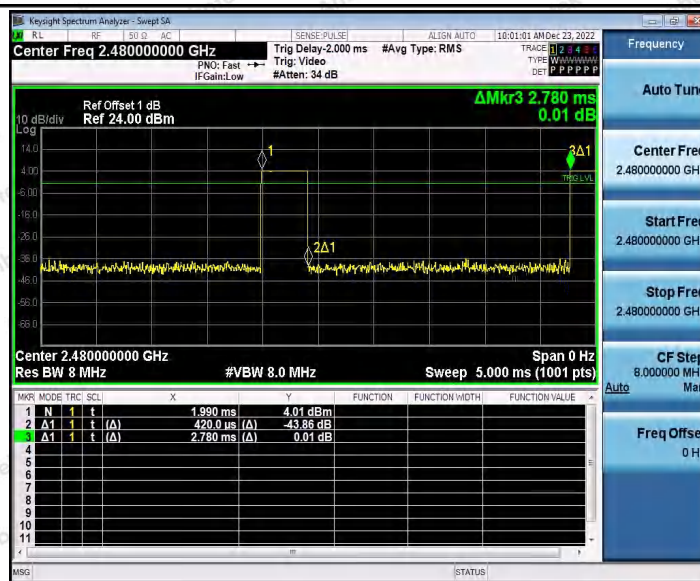
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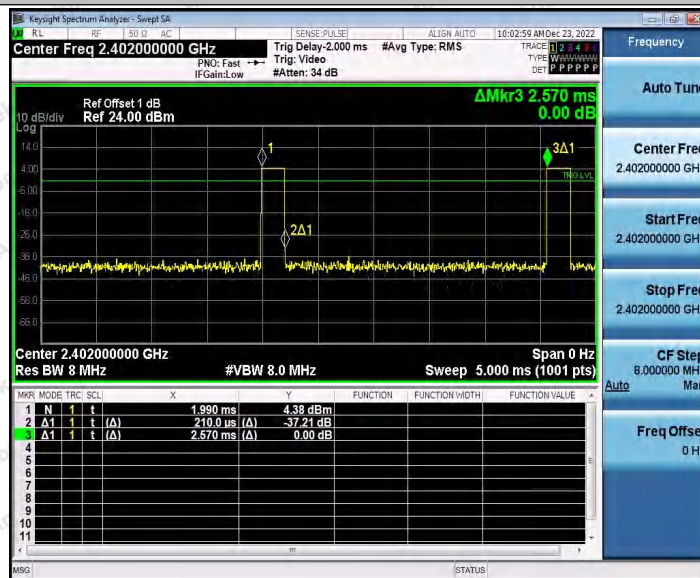


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

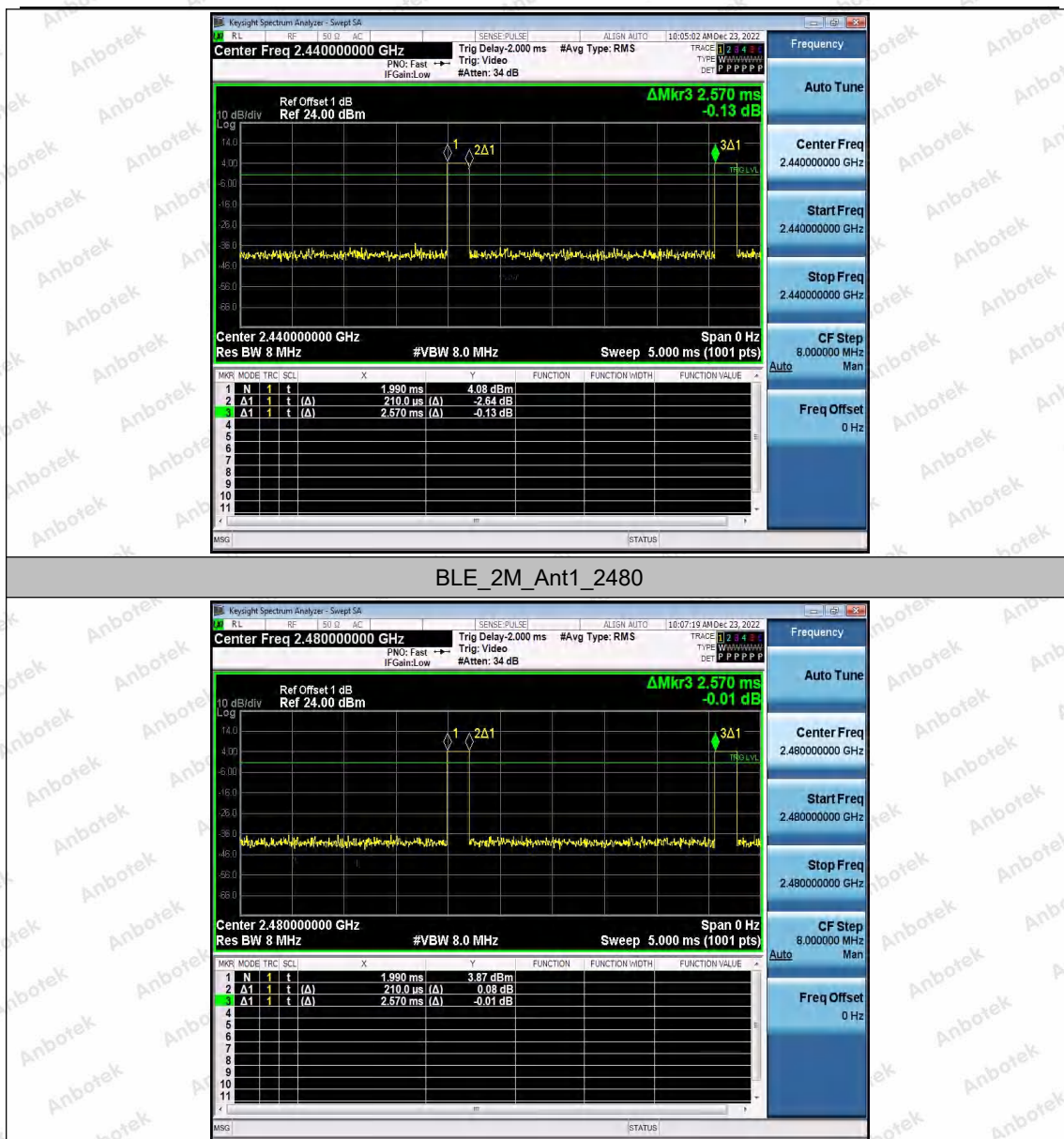
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