

Appendix Test Data

Report No.:	18220WC20240101	Test Sample No.:	1-2-2
Start Test Date:	2022.10.11	Finish Test Date:	2022.10.13
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	1.468	2404.352	2405.820	0.5	PASS
		2440	1.508	2439.324	2440.832	0.5	PASS
		2480	1.488	2479.340	2480.828	0.5	PASS



Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

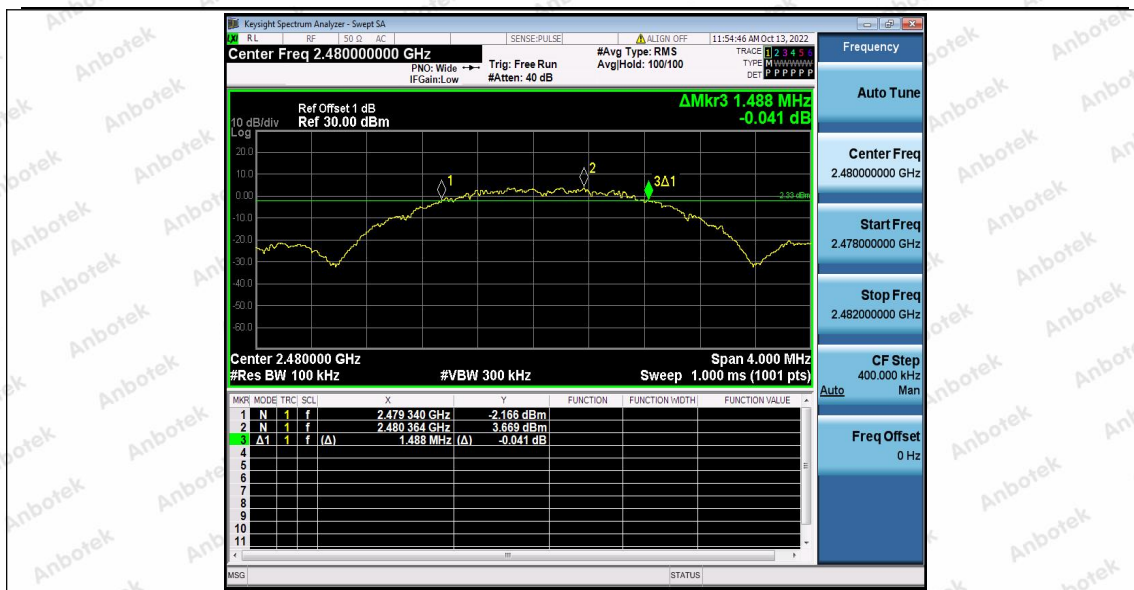
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
ZIGB	Ant1	2405	2.2376	2403.9646	2406.2022
		2440	2.2416	2438.9592	2441.2008
		2480	2.2437	2478.9622	2481.2059



Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

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Appendix C: Maximum conducted output power

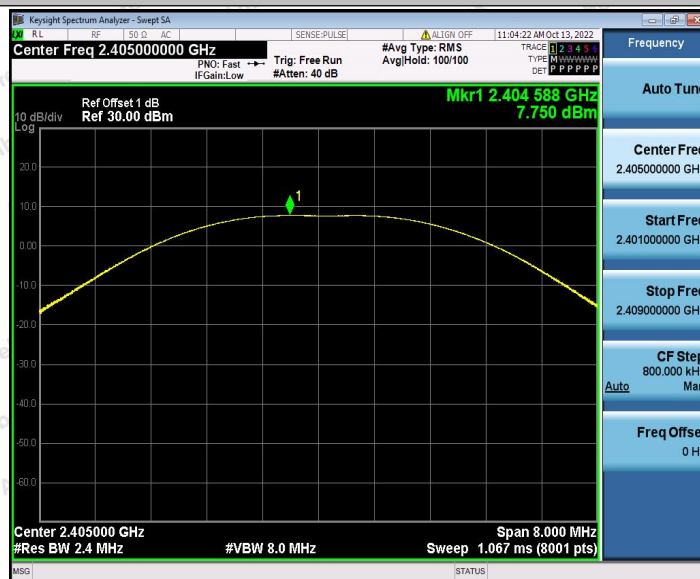
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
ZIGB	Ant1	2405	7.75	≤30	PASS
		2440	7.77	≤30	PASS
		2480	7.38	≤30	PASS

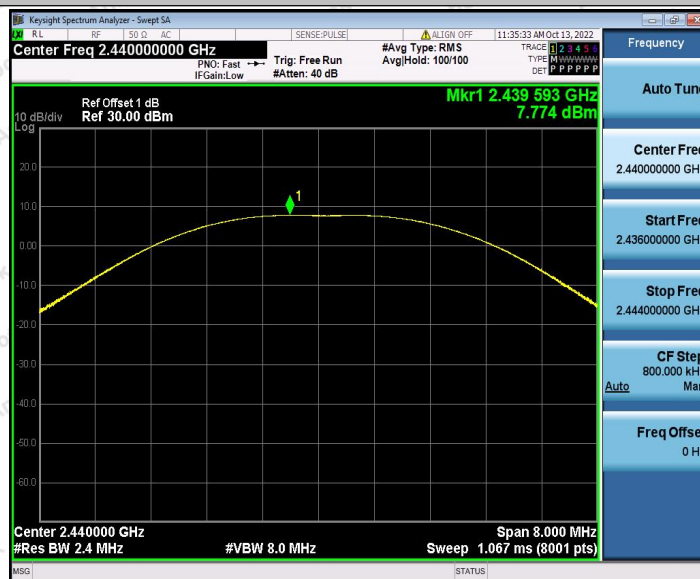


Test Graphs Peak

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

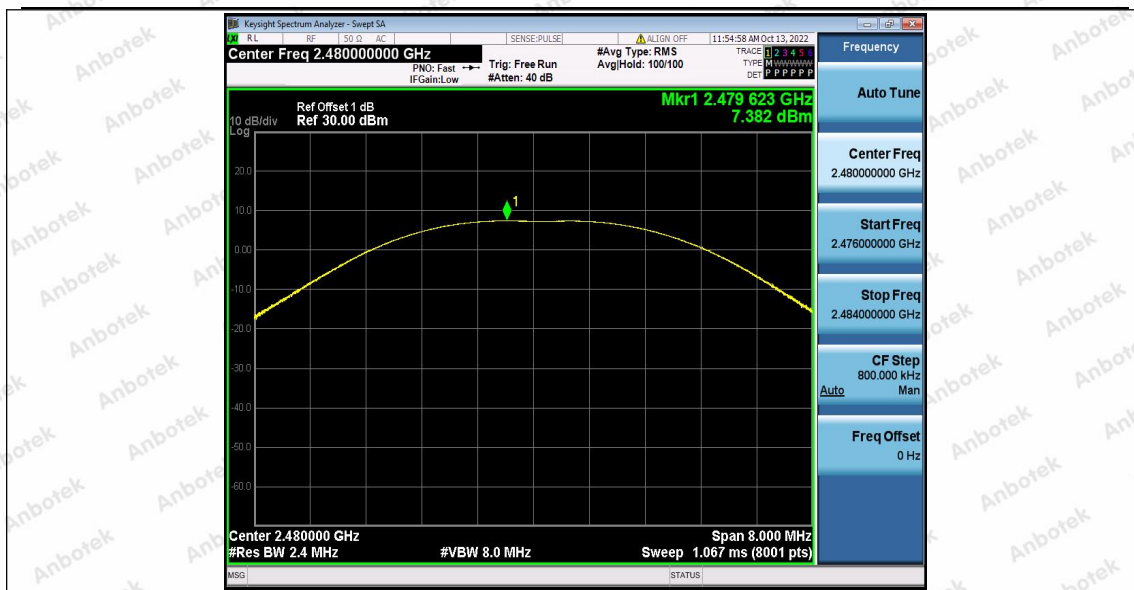
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
ZIGB	Ant1	2405	-6.1	≤8.00	PASS
		2440	-5.69	≤8.00	PASS
		2480	-5.49	≤8.00	PASS



Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

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Appendix E: Band edge measurements

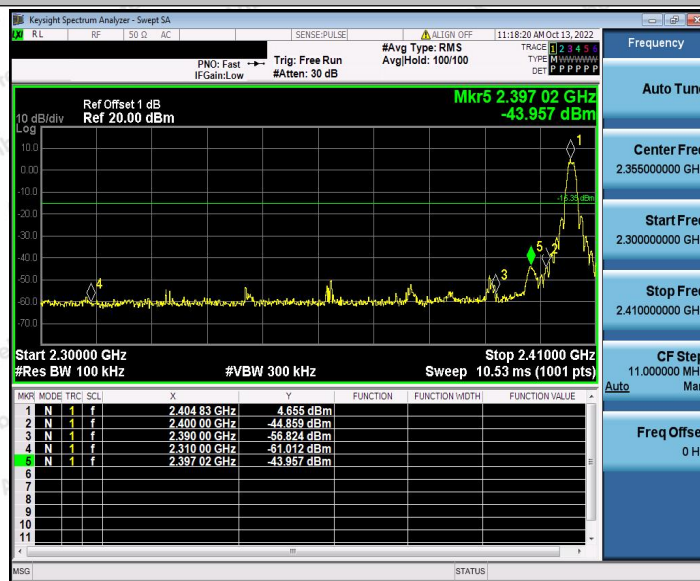
Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
ZIGB	Ant1	Low	2405	4.66	-43.96	≤-15.35	PASS
		High	2480	3.62	-37.71	≤-16.38	PASS



Test Graphs

ZIGB_Ant1_Low_2405



ZIGB_Ant1_High_2480



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-69.01	≤-16.71	PASS
			1000~26500	3.29	-42.84	≤-16.71	PASS
		2440	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-67.46	≤-16.59	PASS
			1000~26500	3.41	-43.15	≤-16.59	PASS
		2480	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-67.76	≤-16.77	PASS
			1000~26500	3.23	-45	≤-16.77	PASS

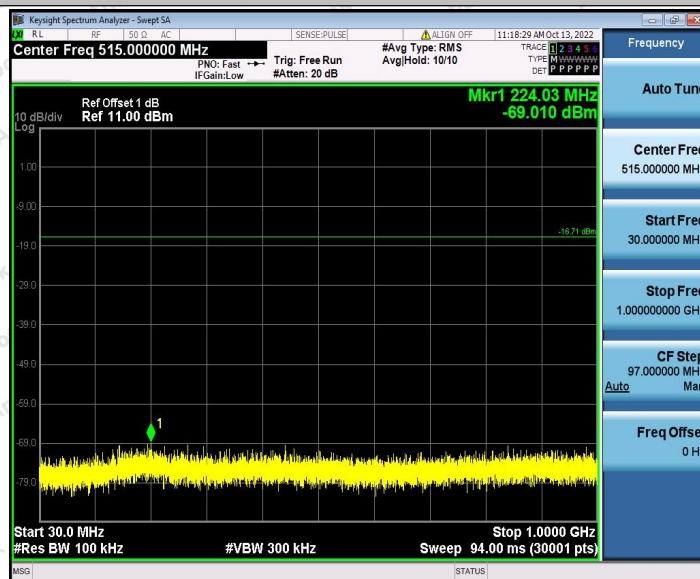


Test Graphs

ZIGB_Ant1_2405_0~Reference



ZIGB_Ant1_2405_30~1000



ZIGB_Ant1_2405_1000~26500

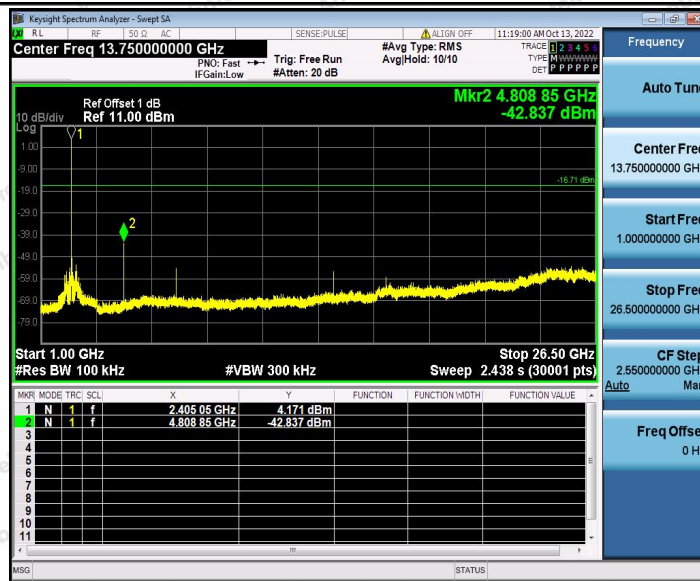
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ZIGB_Ant1_2440_0~Reference



ZIGB_Ant1_2440_30~1000

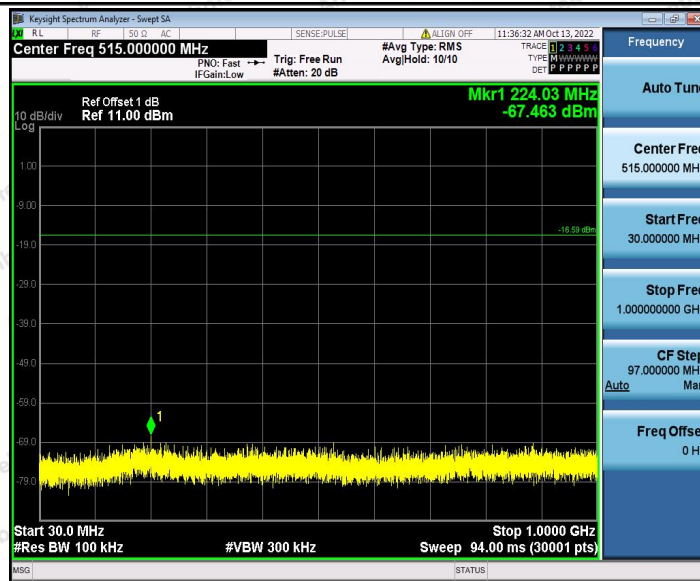
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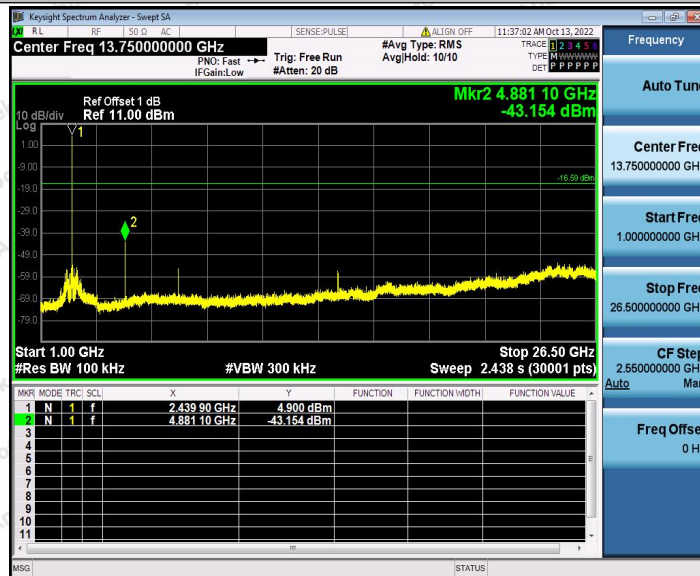


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ZIGB_Ant1_2440_1000~26500



ZIGB_Ant1_2480_0~Reference

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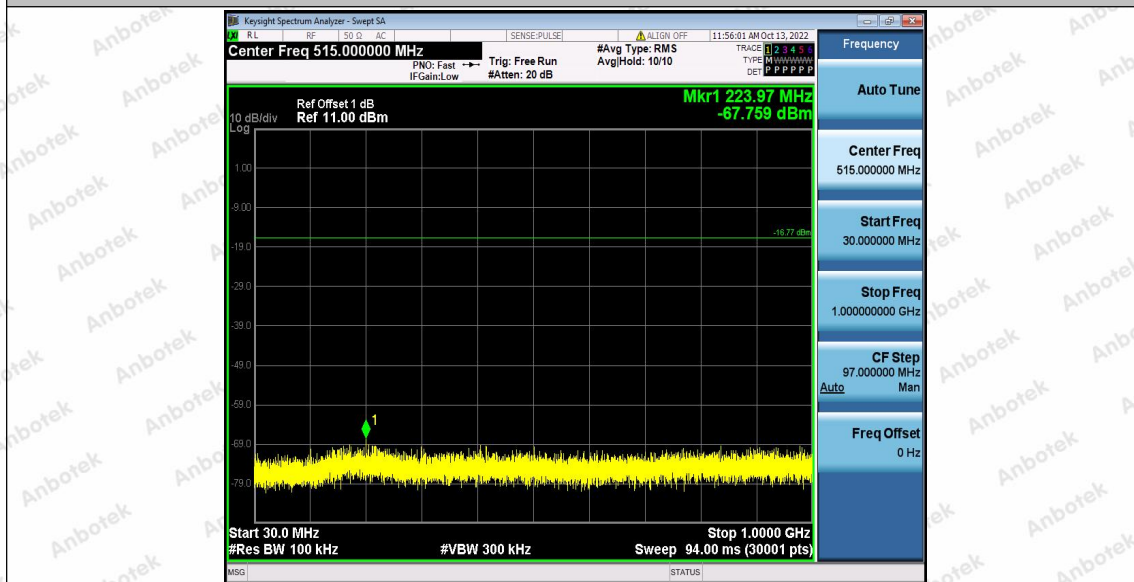


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ZIGB_Ant1_2480_30~1000



ZIGB_Ant1_2480_1000~26500

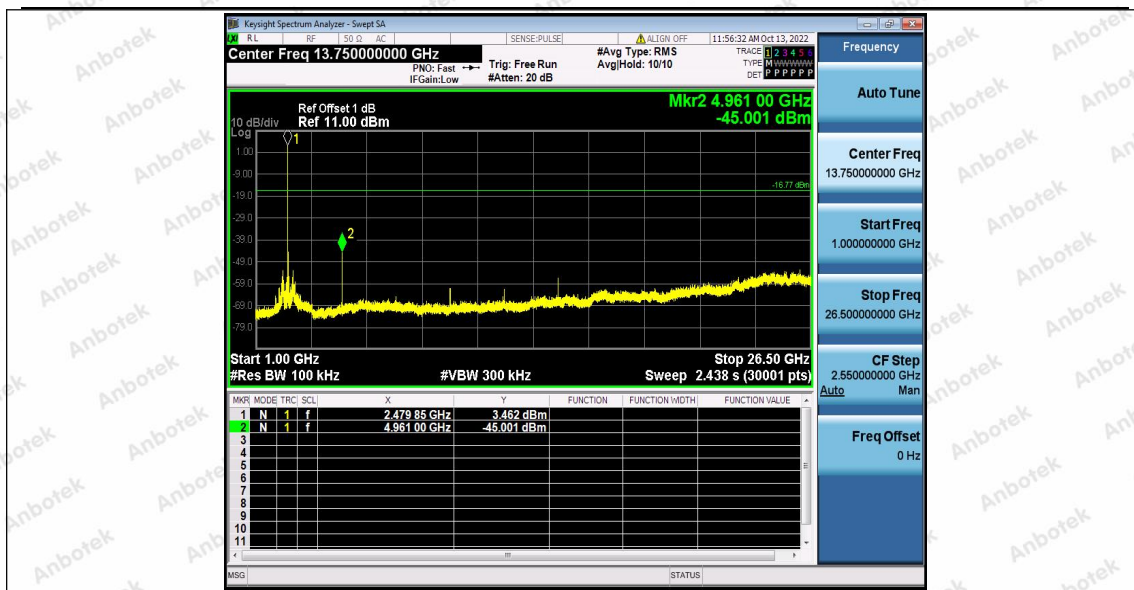
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
ZIGB	Ant1	2405	1.000	1.000	100	0
ZIGB	Ant1	2440	1.000	1.000	100	0
ZIGB	Ant1	2480	1.000	1.000	100	0

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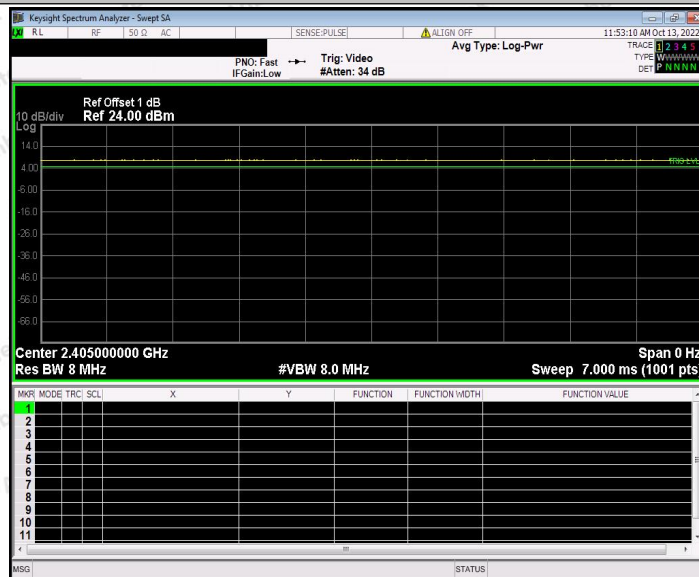


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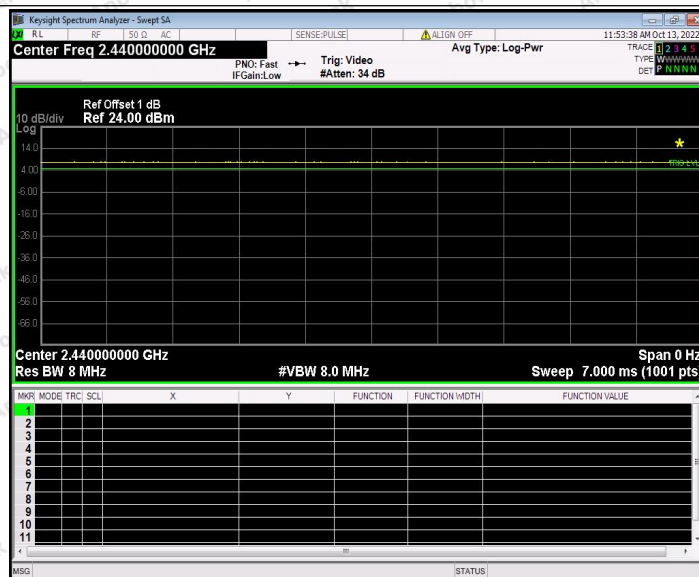


Test Graphs

2.4G_Ant1_2405



2.4G_Ant1_2440



2.4G_Ant1_2480

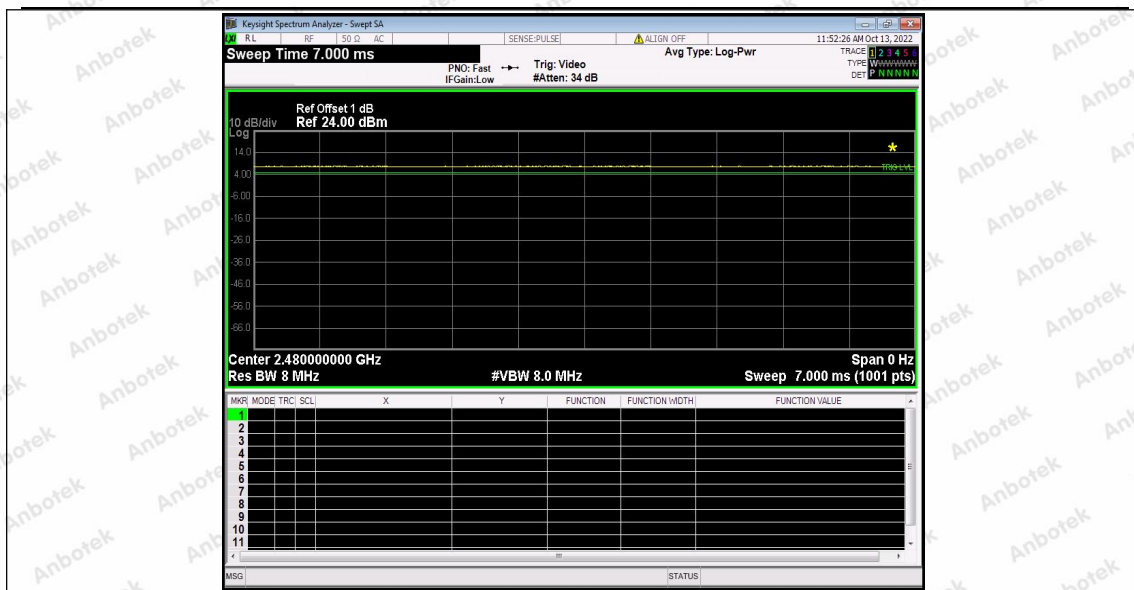
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