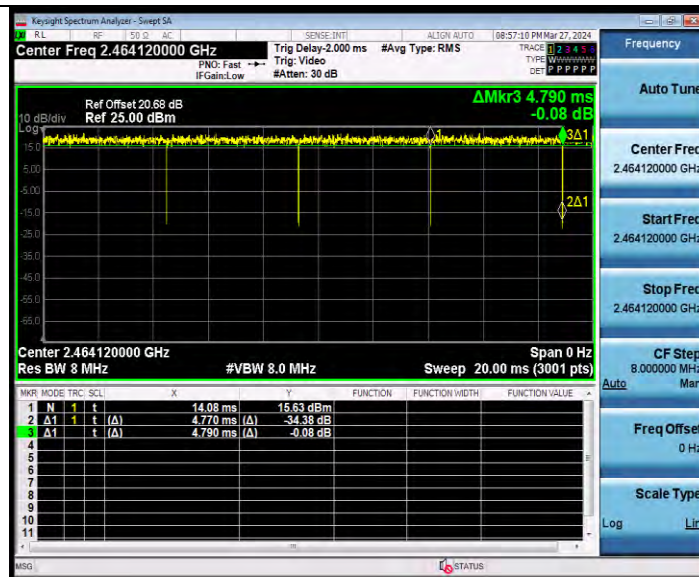


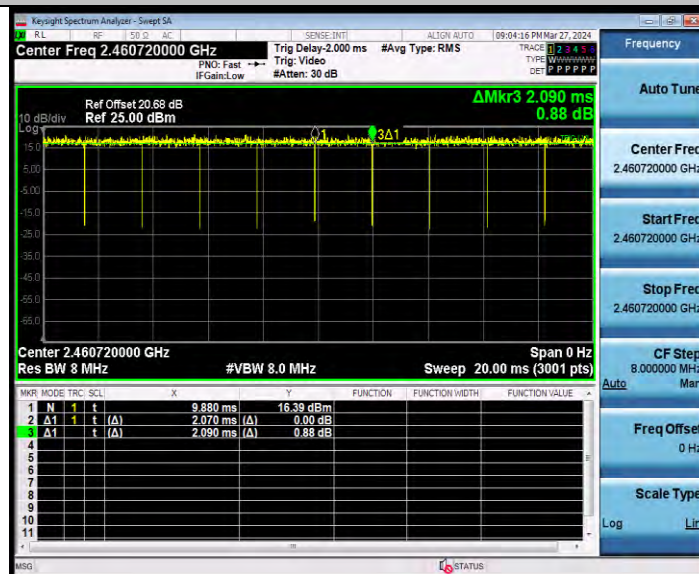


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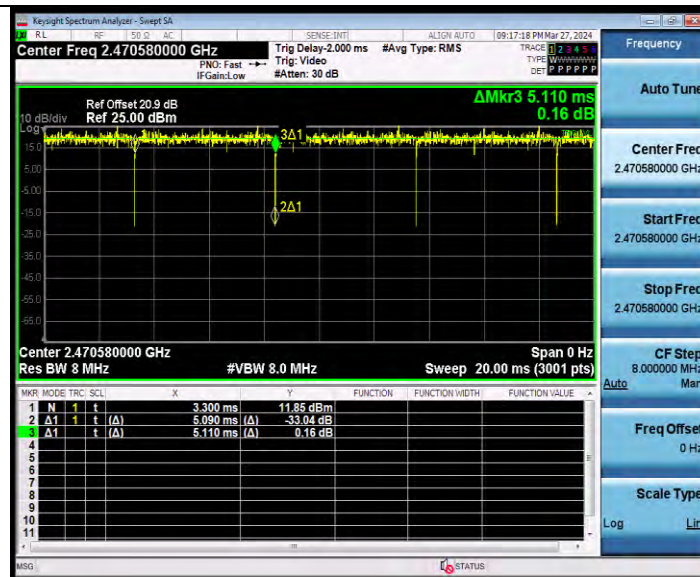


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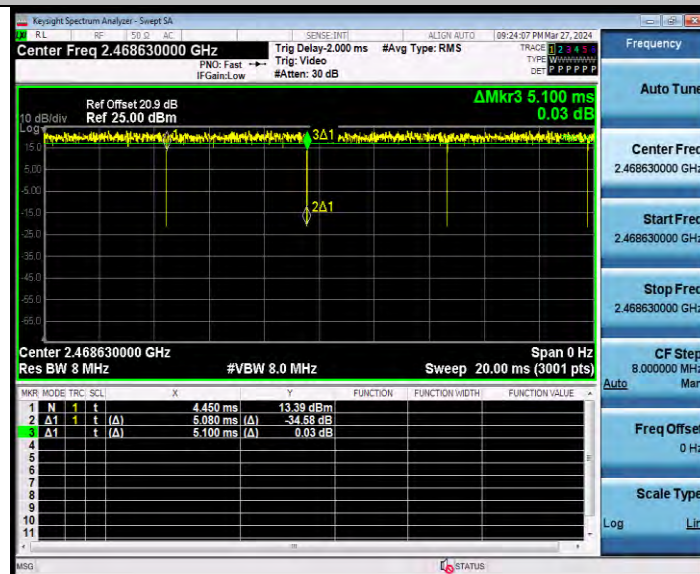


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Test Report No.: W7L-P24040006RF02



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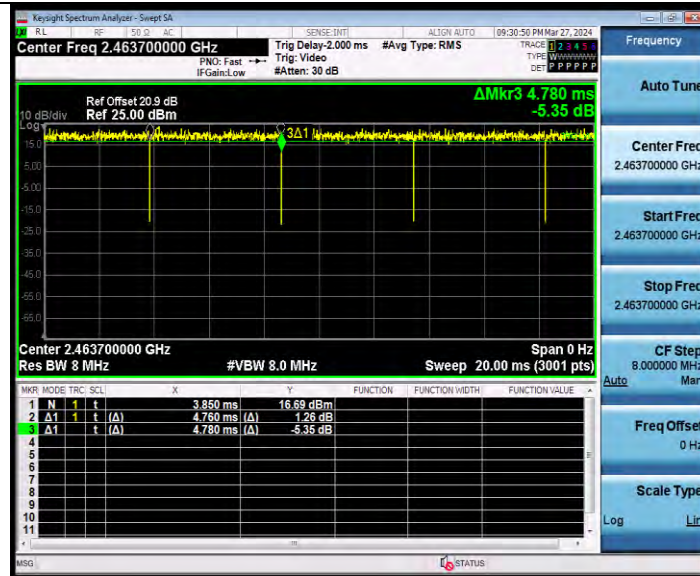


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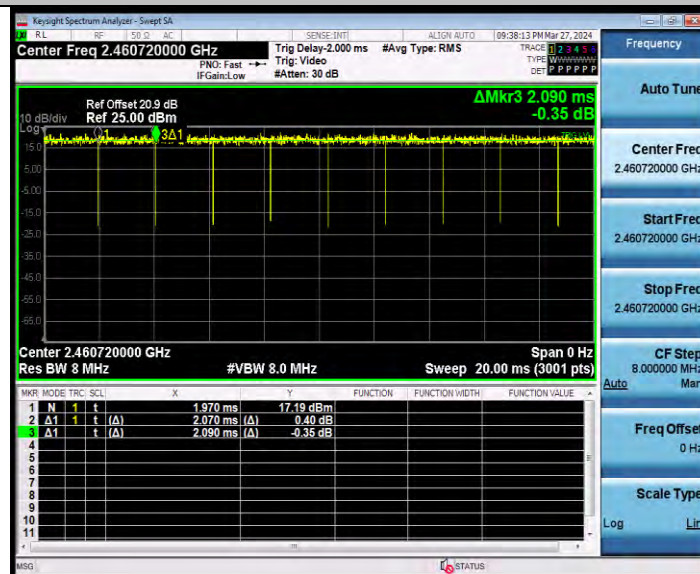


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Test Report No.: W7L-P24040006RF02



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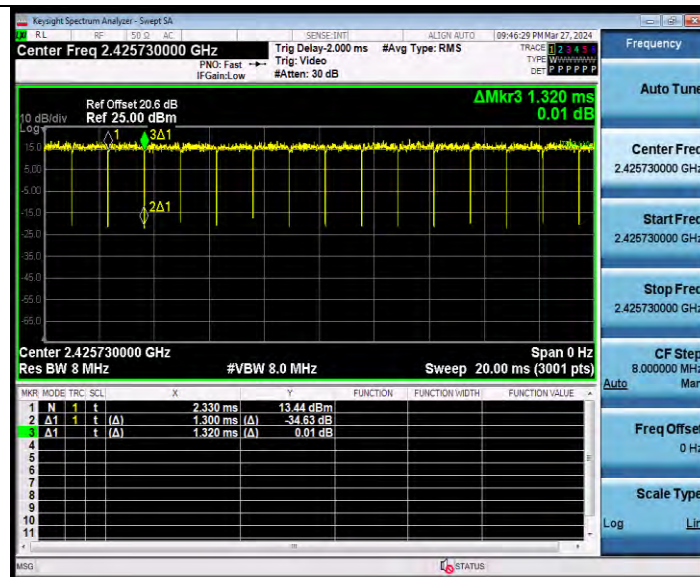


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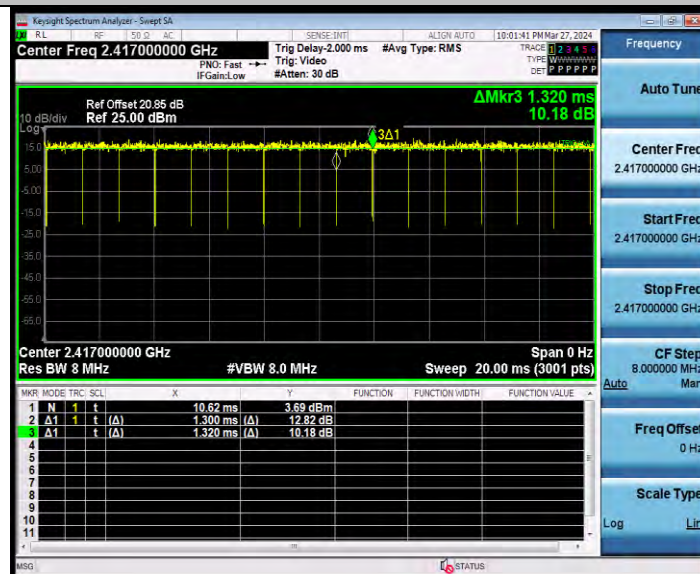


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Test Report No.: W7L-P24040006RF02



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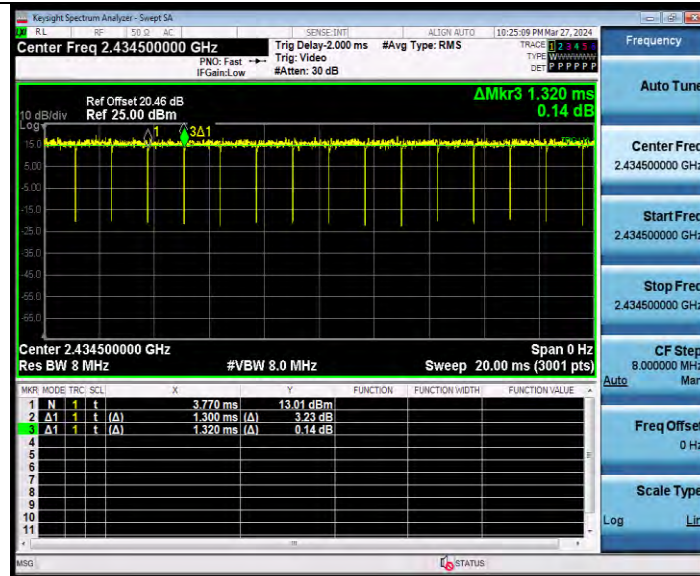


11AX40MIMO_Ant1_2437_484Tone_RU65

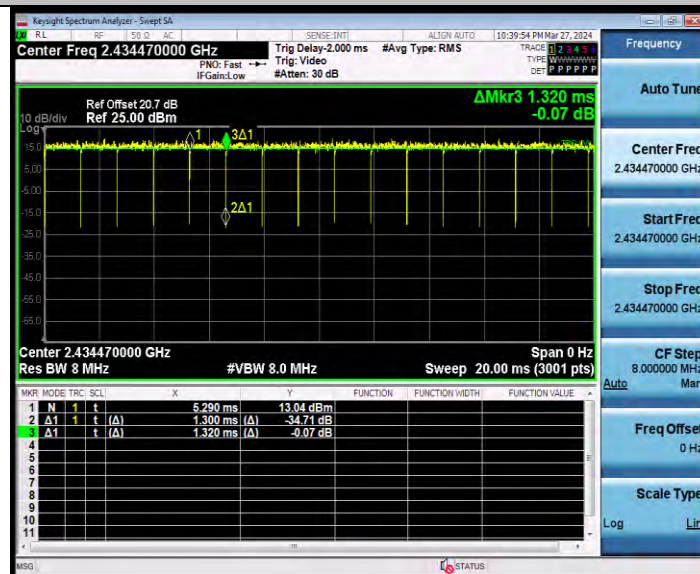


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Test Report No.: W7L-P24040006RF02



11AX40MIMO_Ant2_2437_484Tone_RU65

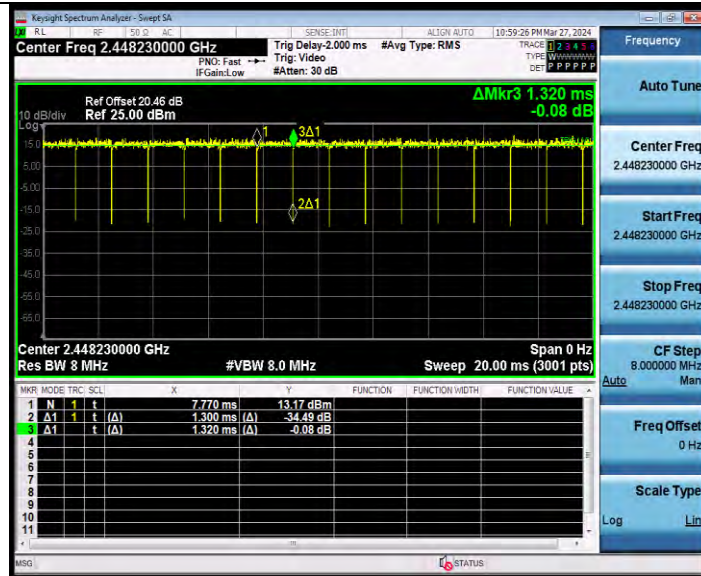


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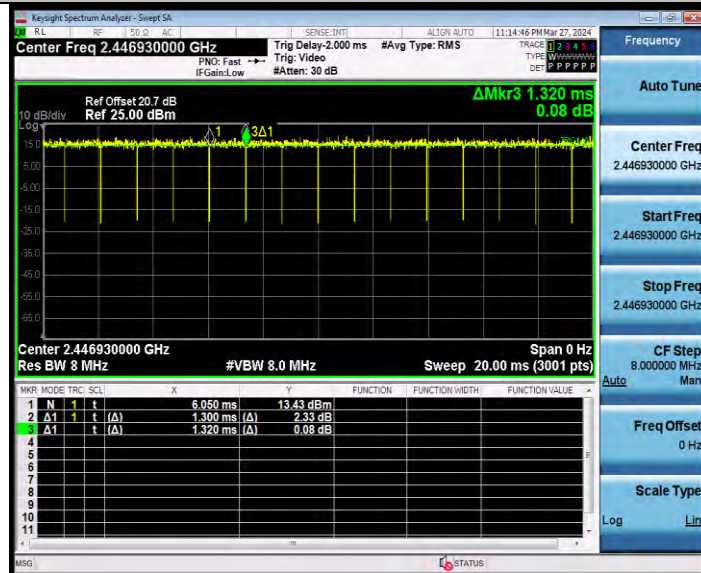


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Test Report No.: W7L-P24040006RF02



11AX40MIMO_Ant2_2452_484Tone_RU65





7 APPENDIX 2 BLE

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.684	2402.376	0.5	PASS
		2440	0.664	2439.704	2440.368	0.5	PASS
		2480	0.652	2479.716	2480.368	0.5	PASS
BLE_2M	Ant1	2404	1.112	2403.492	2404.604	0.5	PASS
		2440	1.084	2439.488	2440.572	0.5	PASS
		2478	1.244	2477.388	2478.632	0.5	PASS
BLE_125K	Ant1	2402	0.684	2401.692	2402.376	0.5	PASS
		2440	0.688	2439.692	2440.380	0.5	PASS
		2480	0.624	2479.724	2480.348	0.5	PASS
BLE_500K	Ant1	2402	0.720	2401.672	2402.392	0.5	PASS
		2440	0.732	2439.664	2440.396	0.5	PASS
		2480	0.648	2479.720	2480.368	0.5	PASS



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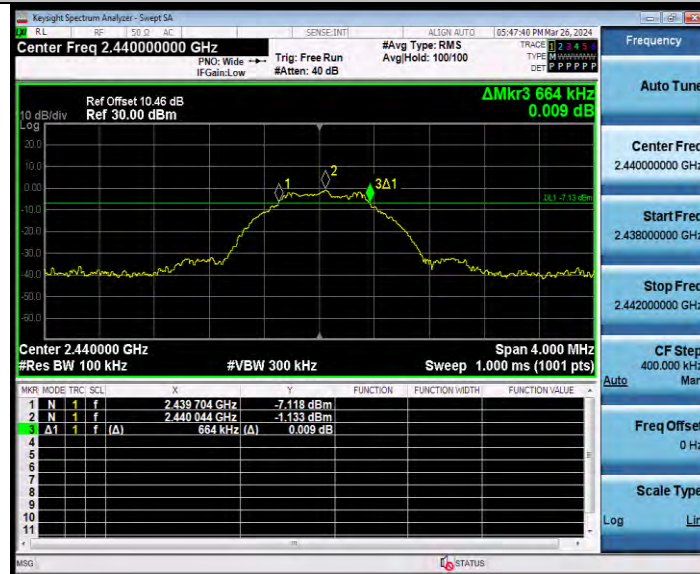
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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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BLE_2M_Ant1_2478

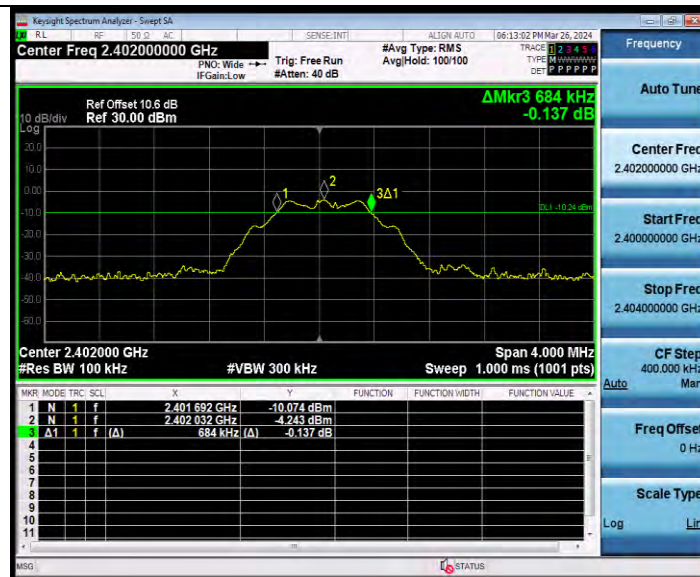


BLE_125K_Ant1_2402

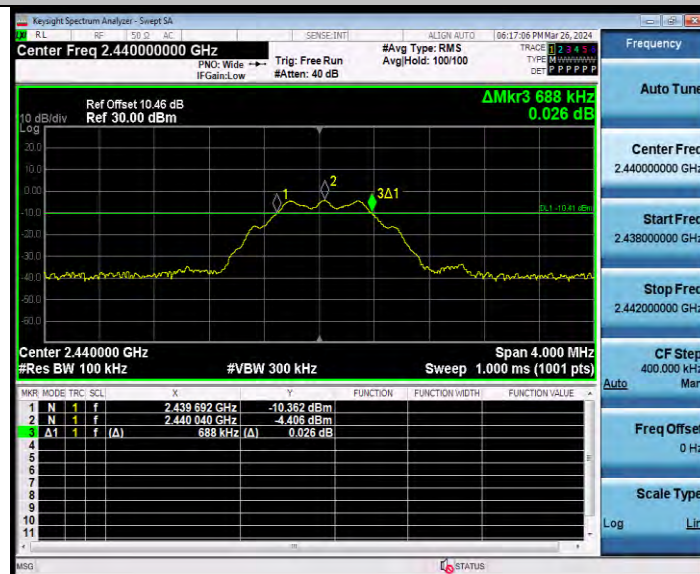


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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480

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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480



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**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0368	2401.5218	2402.5586	---	---
		2440	1.0309	2439.5286	2440.5595	---	---
		2480	1.0382	2479.5251	2480.5633	---	---
BLE_2M	Ant1	2404	2.0265	2403.0402	2405.0667	---	---
		2440	2.0331	2439.0418	2441.0749	---	---
		2478	2.0350	2477.0411	2479.0761	---	---
BLE_125K	Ant1	2402	1.0619	2401.5015	2402.5634	---	---
		2440	1.0633	2439.5041	2440.5674	---	---
		2480	1.0585	2479.5049	2480.5634	---	---
BLE_500K	Ant1	2402	1.0256	2401.5254	2402.5510	---	---
		2440	1.0007	2439.5305	2440.5312	---	---
		2480	1.0287	2479.5228	2480.5515	---	---



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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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Test Report No.: W7L-P24040006RF02



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2480





MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	-0.8	0.43	1.10	≤30	1.13	1.30	≤36	PASS	Default
		2440	-0.58	0.69	1.17	≤30	1.39	1.38	≤36	PASS	Default
		2480	-0.05	1.15	1.30	≤30	1.85	1.53	≤36	PASS	Default
BLE_2M	Ant1	2404	0.57	0.78	1.20	≤30	1.48	1.41	≤36	PASS	Default
		2440	0.59	0.83	1.21	≤30	1.53	1.42	≤36	PASS	Default
		2478	1.26	1.41	1.38	≤30	2.11	1.63	≤36	PASS	Default
BLE_125k	Ant1	2402	-1.21	0.42	1.10	≤30	1.12	1.29	≤36	PASS	Default
		2440	-0.99	0.6	1.15	≤30	1.3	1.35	≤36	PASS	Default
		2480	-0.46	1.06	1.28	≤30	1.76	1.50	≤36	PASS	Default
BLE_500K	Ant1	2402	-0.52	0.43	1.10	≤30	1.13	1.30	≤36	PASS	Default
		2440	-0.27	0.62	1.15	≤30	1.32	1.36	≤36	PASS	Default
		2480	0.25	1.11	1.29	≤30	1.81	1.52	≤36	PASS	Default
Note:EIRP=Peak Power+Gain											



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MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.41	≤8.00	PASS
		2440	-15.70	≤8.00	PASS
		2480	-15.11	≤8.00	PASS
BLE_2M	Ant1	2404	-17.78	≤8.00	PASS
		2440	-18.29	≤8.00	PASS
		2478	-17.40	≤8.00	PASS
BLE_125K	Ant1	2402	-6.76	≤8.00	PASS
		2440	-7.01	≤8.00	PASS
		2480	-6.42	≤8.00	PASS
BLE_500K	Ant1	2402	-6.76	≤8.00	PASS
		2440	-7.04	≤8.00	PASS
		2480	-6.43	≤8.00	PASS

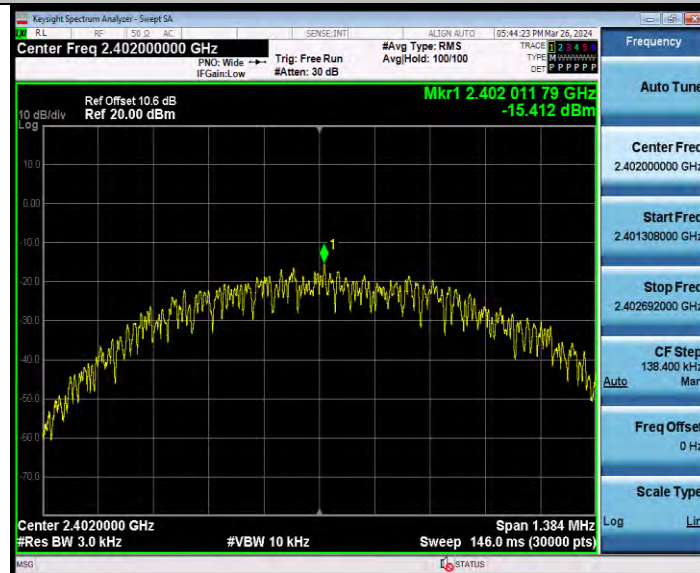


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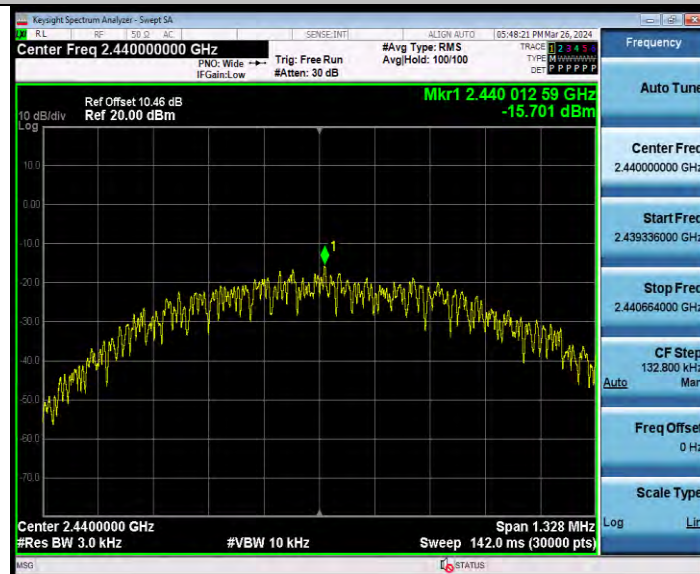
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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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BLE_2M_Ant1_2404

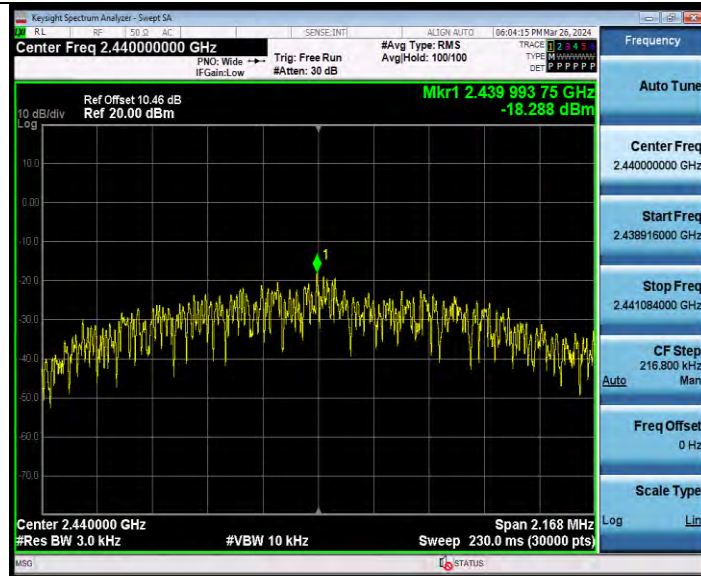


BLE_2M_Ant1_2440



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BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480

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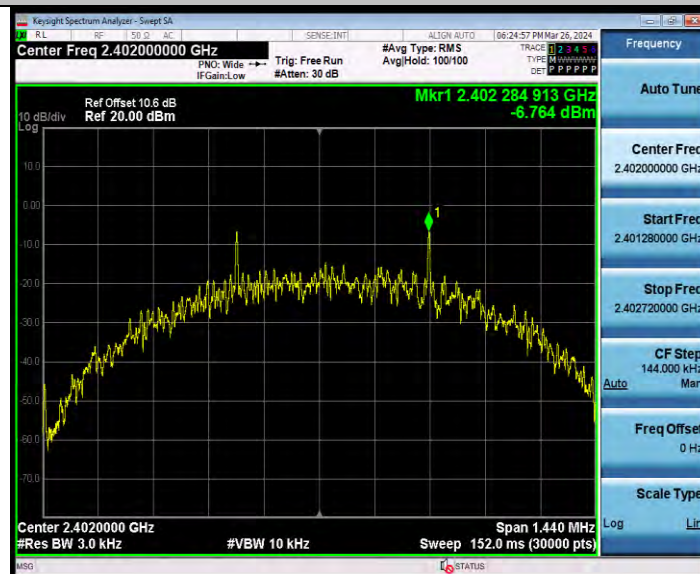


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BLE_500K_Ant1_2402

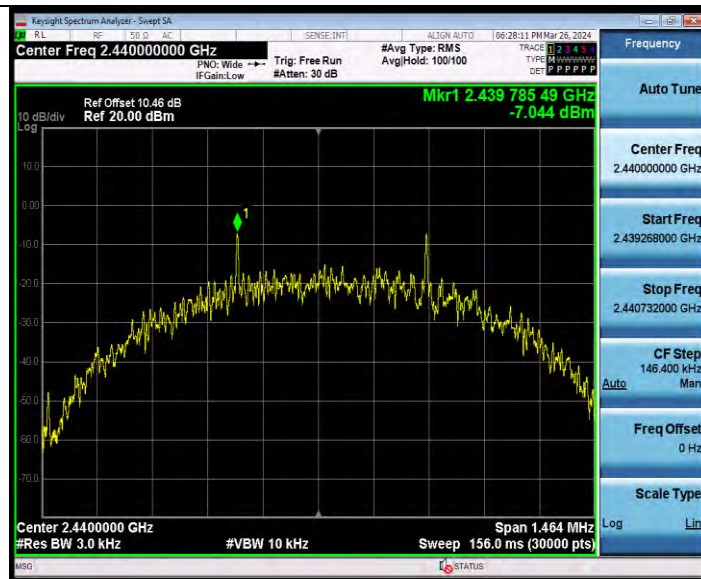


BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480



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**BAND EDGE MEASUREMENTS****TEST RESULT**

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.45	-44.65	≤-21.45	PASS
		High	2480	-0.61	-45.51	≤-20.61	PASS
BLE_2M	Ant1	Low	2404	-0.49	-45.26	≤-20.49	PASS
		High	2478	-2.29	-44.74	≤-22.29	PASS
BLE_125K	Ant1	Low	2402	-4.24	-44.54	≤-24.24	PASS
		High	2480	-3.87	-44.78	≤-23.87	PASS
BLE_500K	Ant1	Low	2402	-1.16	-45.17	≤-21.16	PASS
		High	2480	-0.82	-44.03	≤-20.82	PASS

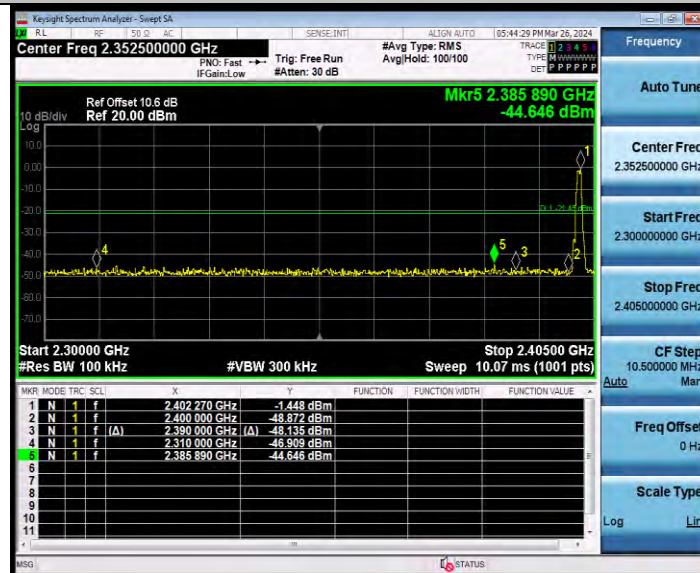


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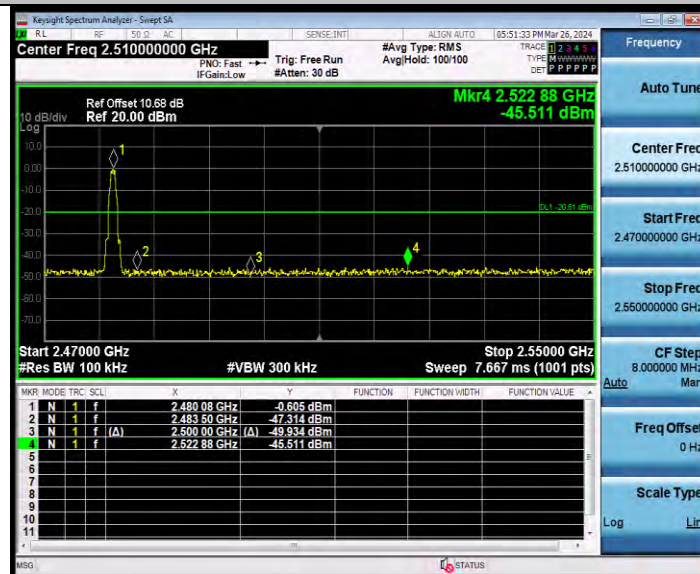
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TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

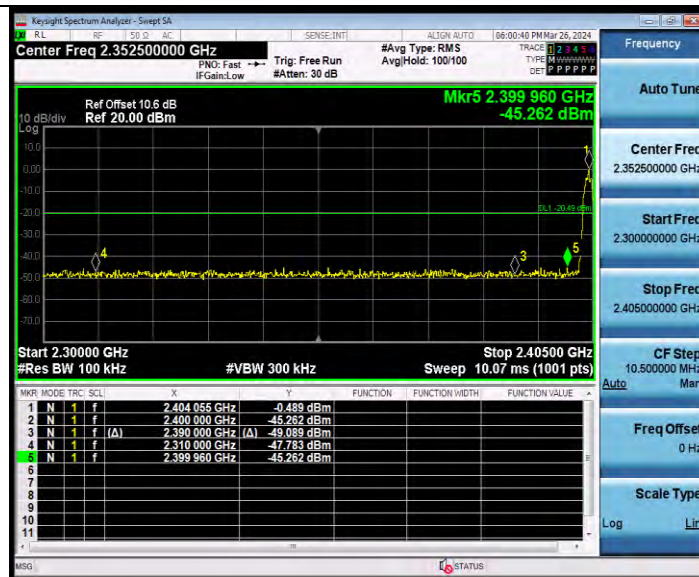


BLE_2M_Ant1_Low_2404

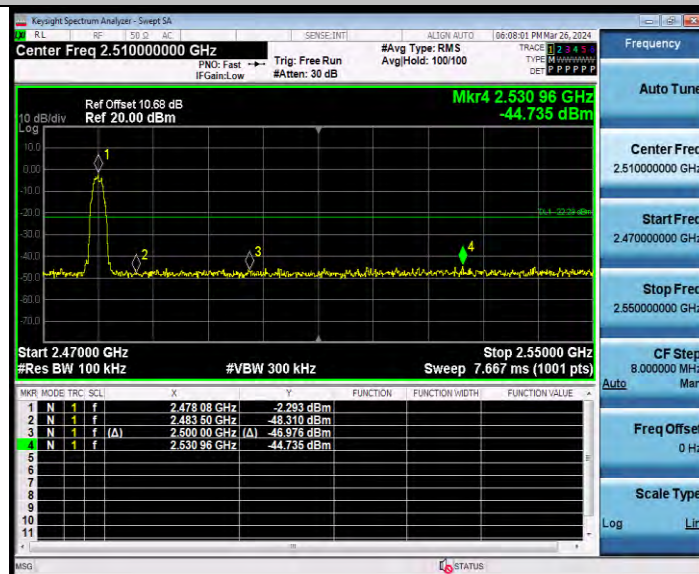


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BLE_2M_Ant1_High_2478

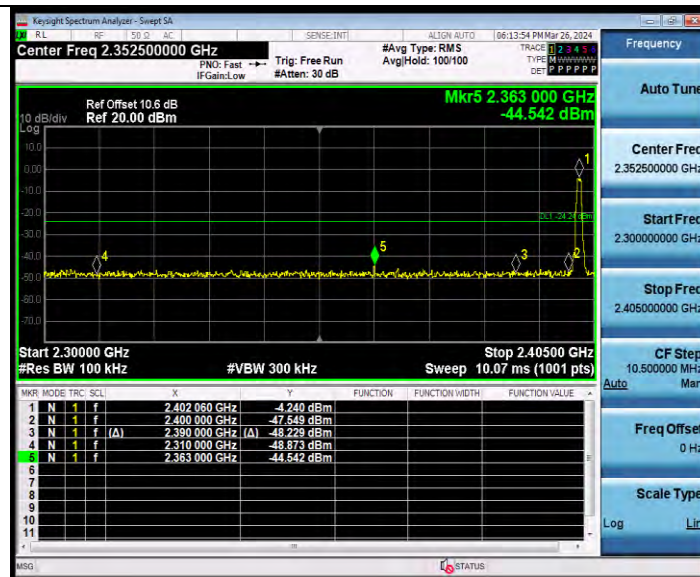


BLE_125K_Ant1_Low_2402

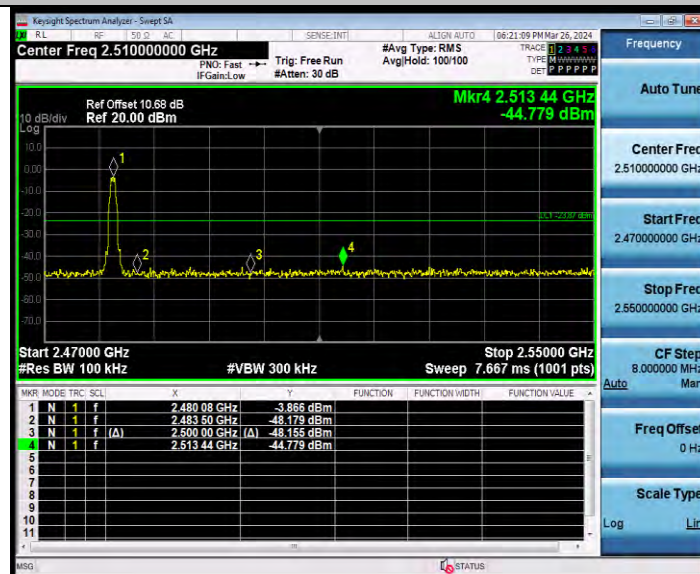


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BLE_125K_Ant1_High_2480

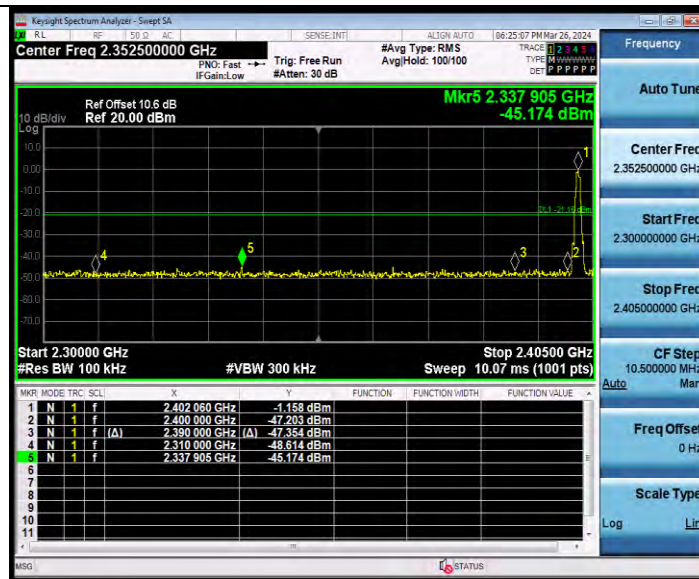


BLE_500K_Ant1_Low_2402

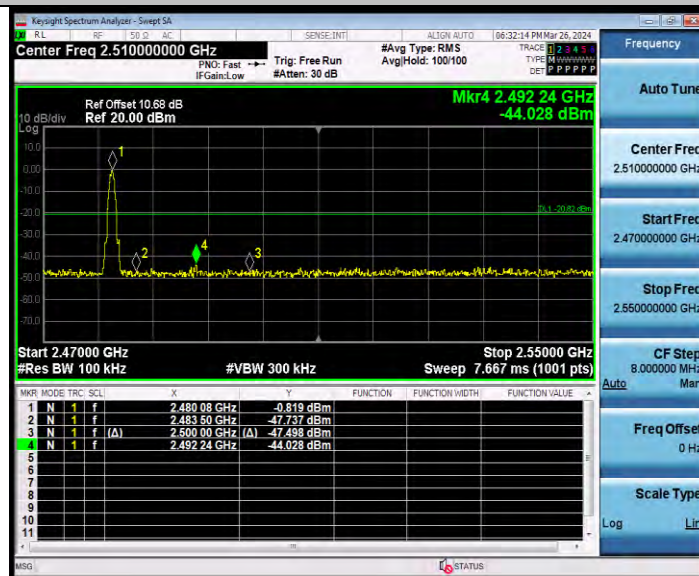


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BLE_500K_Ant1_High_2480





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CONDUCTED SPURIOUS EMISSION

TEST RESULT

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-54.35	≤-22.47	PASS
			1000~26500	-2.47	-35.27	≤-22.47	PASS
		2440	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-53.8	≤-22.7	PASS
			1000~26500	-2.70	-34.63	≤-22.7	PASS
		2480	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-53.91	≤-21.04	PASS
			1000~26500	-1.04	-35.36	≤-21.04	PASS
BLE_2M	Ant1	2404	Reference	-3.45	-3.45	---	PASS
			30~1000	-3.45	-54.03	≤-23.45	PASS
			1000~26500	-3.45	-35.81	≤-23.45	PASS
		2440	Reference	-4.87	-4.87	---	PASS
			30~1000	-4.87	-54.06	≤-24.87	PASS
			1000~26500	-4.87	-35.34	≤-24.87	PASS
		2478	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-54.1	≤-21.41	PASS
			1000~26500	-1.41	-34.49	≤-21.41	PASS
BLE_125K	Ant1	2402	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-54.23	≤-24.4	PASS
			1000~26500	-4.40	-35.54	≤-24.4	PASS
		2440	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-54.04	≤-22.22	PASS
			1000~26500	-2.22	-35.23	≤-22.22	PASS
		2480	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-53.39	≤-22.59	PASS
			1000~26500	-2.59	-35.1	≤-22.59	PASS
BLE_500K	Ant1	2402	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-54.61	≤-22.29	PASS



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			1000~26500	-2.29	-35.33	≤ -22.29	PASS
		2440	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-54.55	≤ -21.64	PASS
			1000~26500	-1.64	-35.33	≤ -21.64	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-54.41	≤ -21.46	PASS
			1000~26500	-1.46	-33.8	≤ -21.46	PASS



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TEST GRAPHS

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

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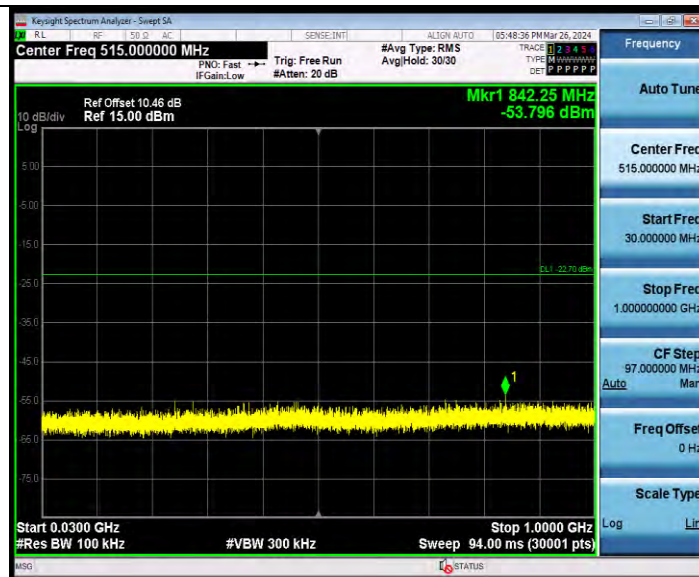
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



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Test Report No.: W7L-P24040006RF02



BLE_2M_Ant1_2404_0~Reference



BLE_2M_Ant1_2404_30~1000



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Test Report No.: W7L-P24040006RF02



BLE_2M_Ant1_2404_1000~26500



BLE_2M_Ant1_2440_0~Reference

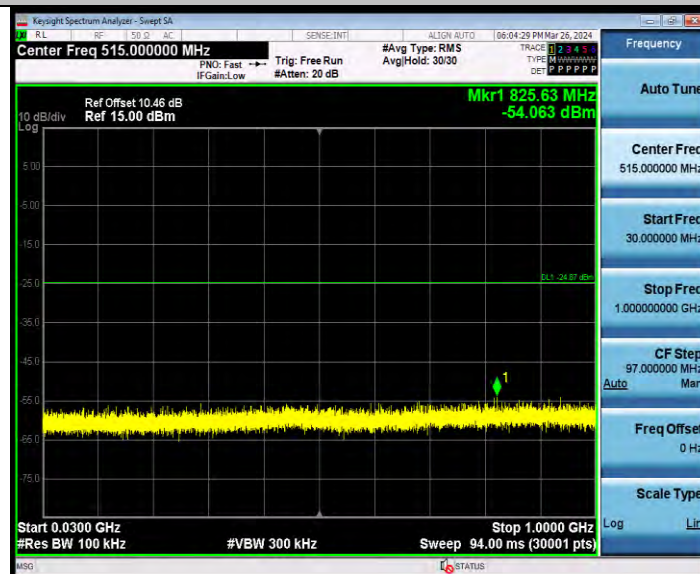


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BLE_2M_Ant1_2440_30~1000

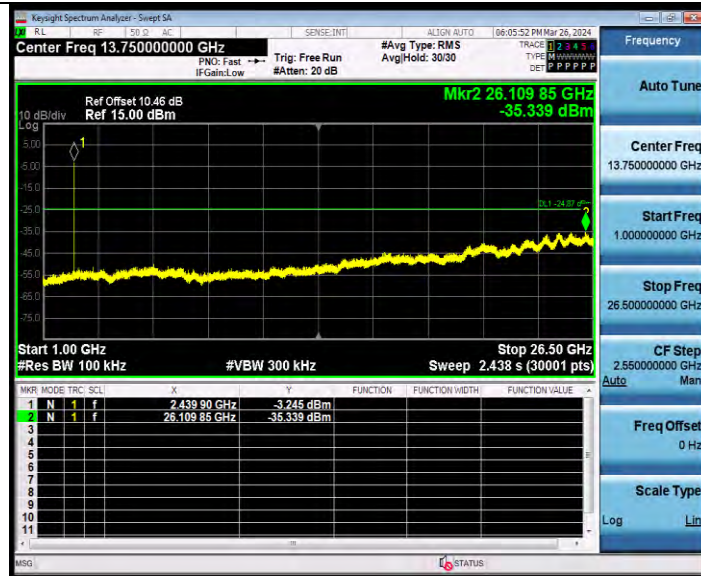


BLE_2M_Ant1_2440_1000~26500



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BLE_2M_Ant1_2478_0~Reference



BLE_2M_Ant1_2478_30~1000



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Test Report No.: W7L-P24040006RF02



BLE_2M_Ant1_2478_1000~26500



BLE_125K_Ant1_2402_0~Reference



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Test Report No.: W7L-P24040006RF02



BLE_125K_Ant1_2402_30~1000



BLE_125K_Ant1_2402_1000~26500



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VERITAS

Test Report No.: W7L-P24040006RF02



BLE_125K_Ant1_2440_0~Reference

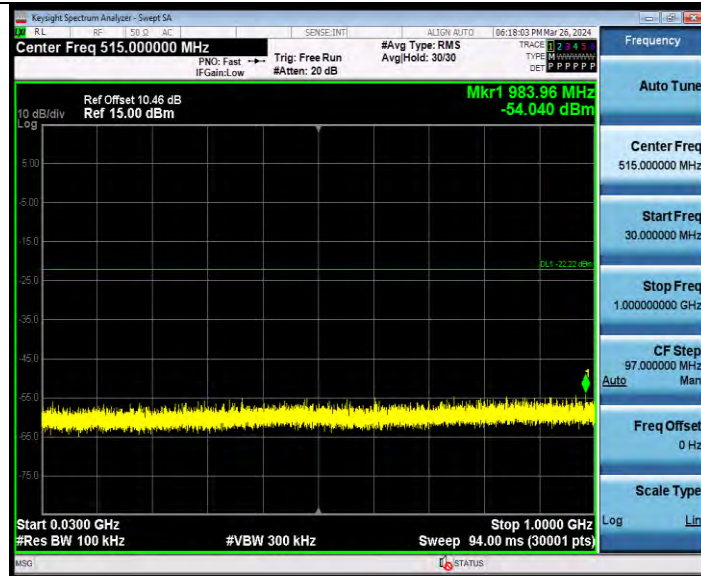


BLE_125K_Ant1_2440_30~1000



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VERITAS

Test Report No.: W7L-P24040006RF02



BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference

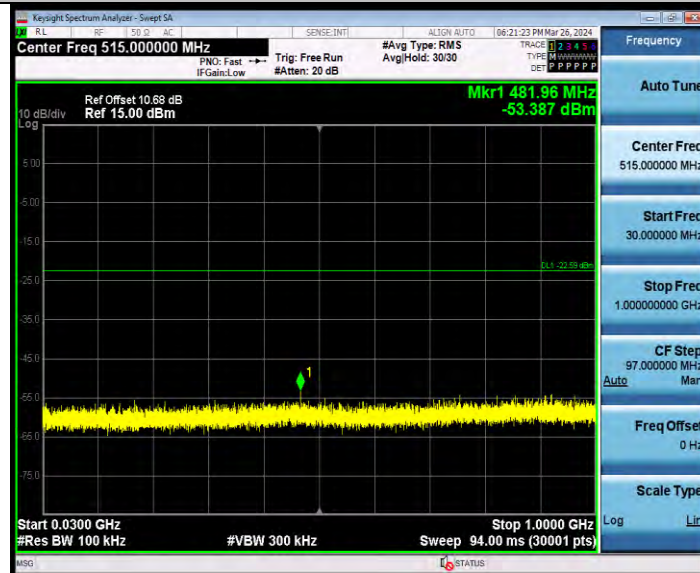


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Test Report No.: W7L-P24040006RF02



BLE_125K_Ant1_2480_30~1000



BLE_125K_Ant1_2480_1000~26500

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Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2402_0~Reference

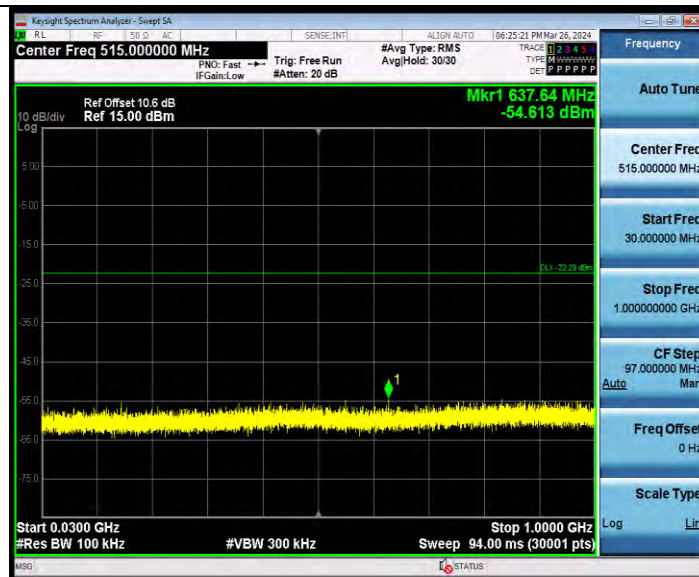


BLE_500K_Ant1_2402_30~1000



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VERITAS

Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2402_1000~26500



BLE_500K_Ant1_2440_0~Reference



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Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2440_30~1000



BLE_500K_Ant1_2440_1000~26500



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Test Report No.: W7L-P24040006RF02



BLE_500K_Ant1_2480_0~Reference

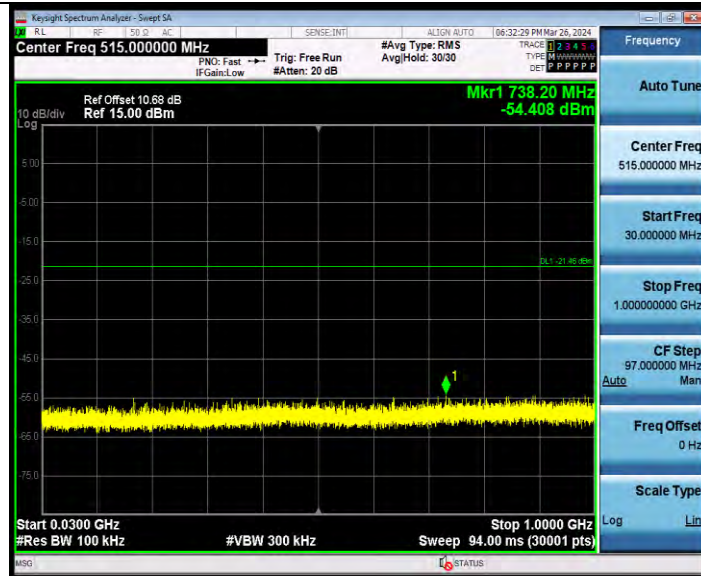


BLE_500K_Ant1_2480_30~1000



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BLE_500K_Ant1_2480_1000~26500



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DUTY CYCLE

TEST RESULT

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2404	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2478	0.20	0.62	32.26	4.91
BLE_125K	Ant1	2402	3.10	3.75	82.67	0.83
		2440	3.11	3.75	82.93	0.81
		2480	3.10	3.75	82.67	0.83
BLE_500K	Ant1	2402	1.07	1.88	56.91	2.45
		2440	1.07	1.88	56.91	2.45
		2480	1.07	1.88	56.91	2.45