



BUREAU
VERITAS

Test Report No.: W7L-P22090015-5RF02



BLE_500K_Ant1_2402

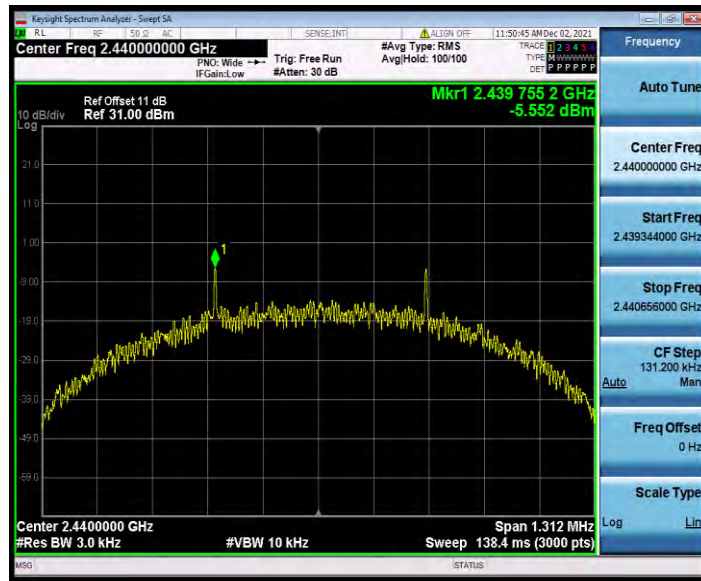


BLE_500K_Ant1_2440



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VERITAS**

Test Report No.: W7L-P22090015-5RF02



BLE_500K_Ant1_2480





BAND EDGE MEASUREMENTS

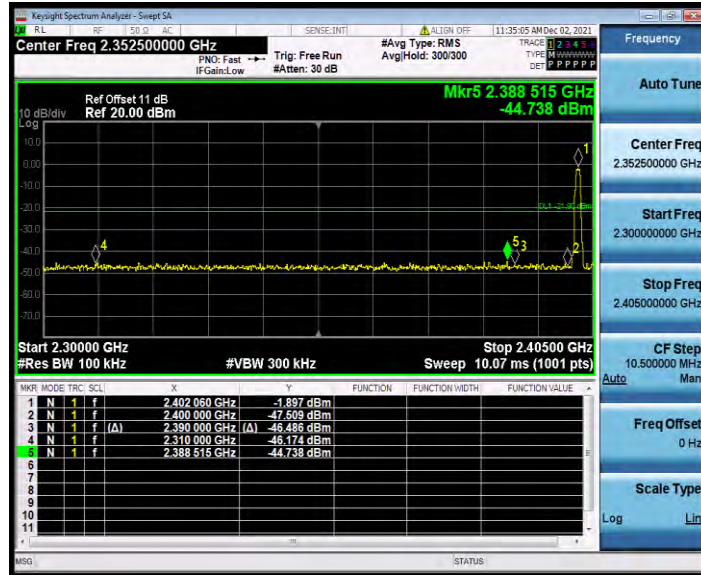
TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	Low	2402	-1.90	-44.74	≤-21.9	PASS
		High	2480	-0.74	-44.54	≤-20.74	PASS
BLE_1M	Ant1	Low	2402	1.19	-44.93	≤-18.81	PASS
		High	2480	0.06	-44.6	≤-19.94	PASS
BLE_2M	Ant1	Low	2402	0.99	-43.45	≤-19.02	PASS
		High	2480	0.10	-44.92	≤-19.9	PASS
BLE_500K	Ant1	Low	2402	1.24	-44.5	≤-18.76	PASS
		High	2480	0.05	-44.6	≤-19.95	PASS

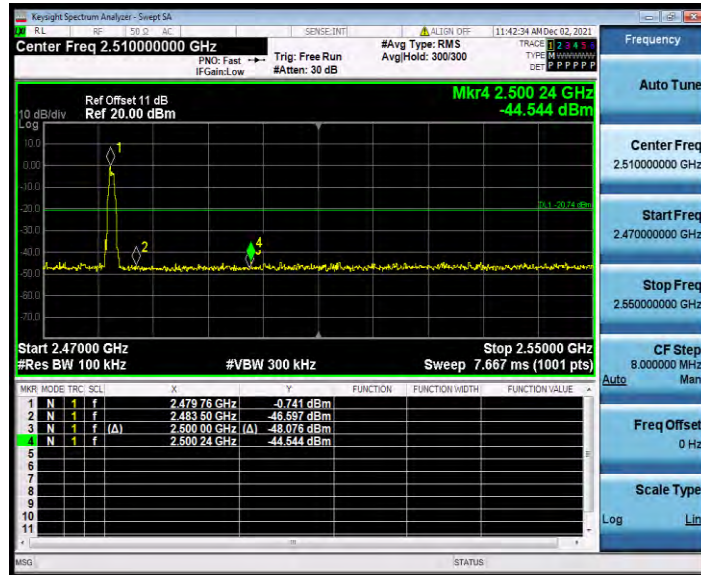


TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

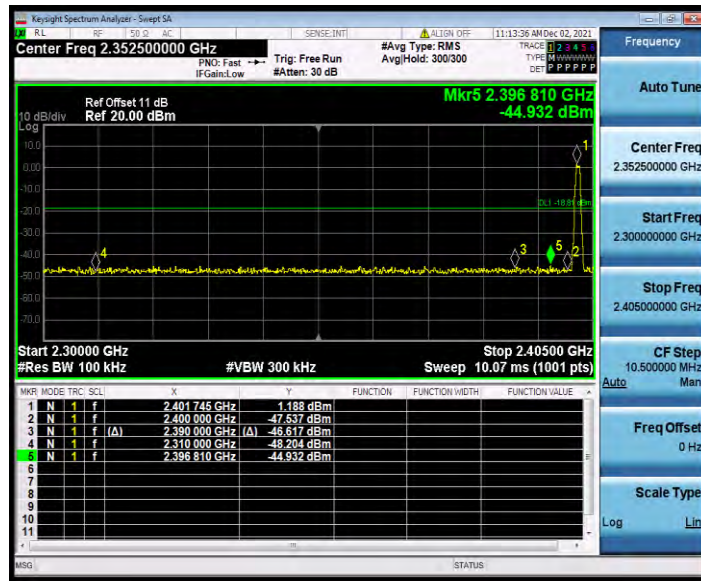


BLE_1M_Ant1_Low_2402

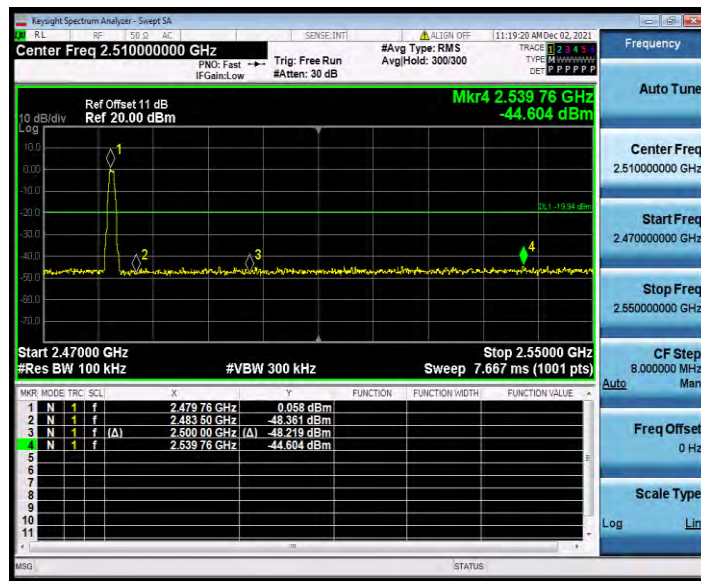


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BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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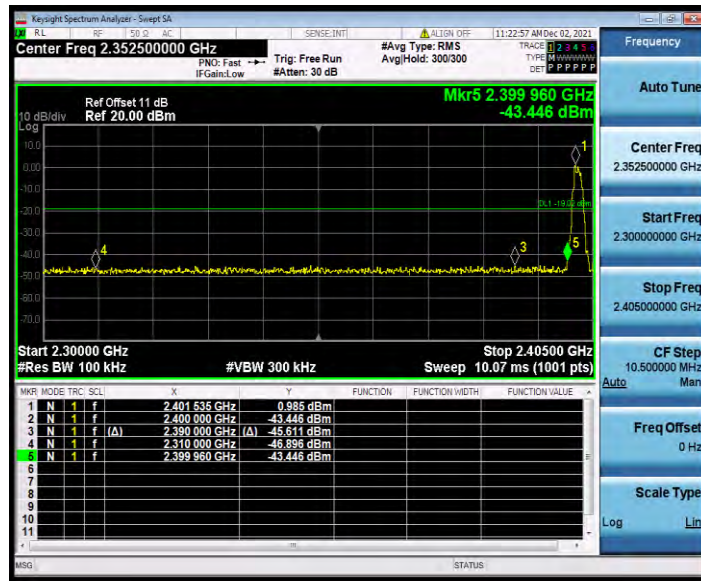
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com

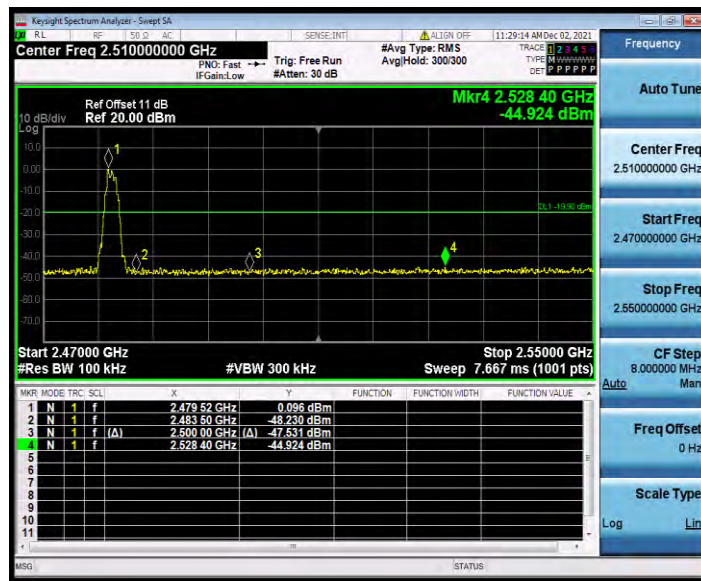


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Test Report No.: W7L-P22090015-5RF02



BLE_2M_Ant1_High_2480



BLE_500K_Ant1_Low_2402

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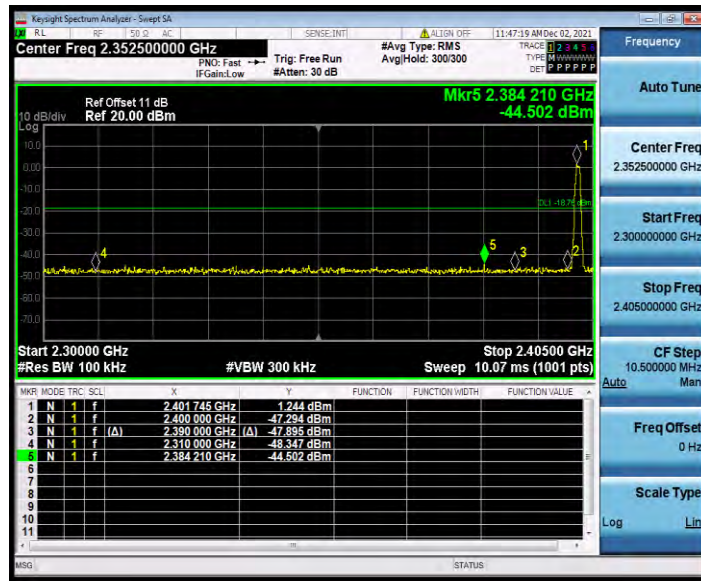
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
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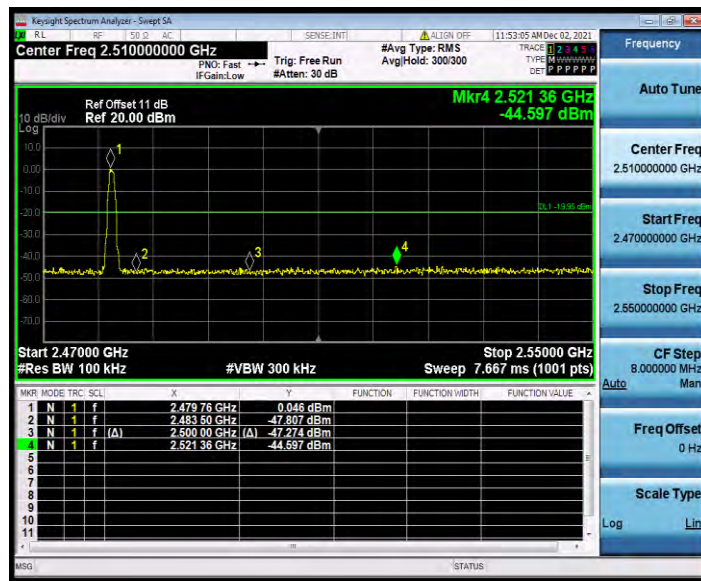


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BLE_500K_Ant1_High_2480



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CONDUCTED SPURIOUS EMISSION

TEST RESULT

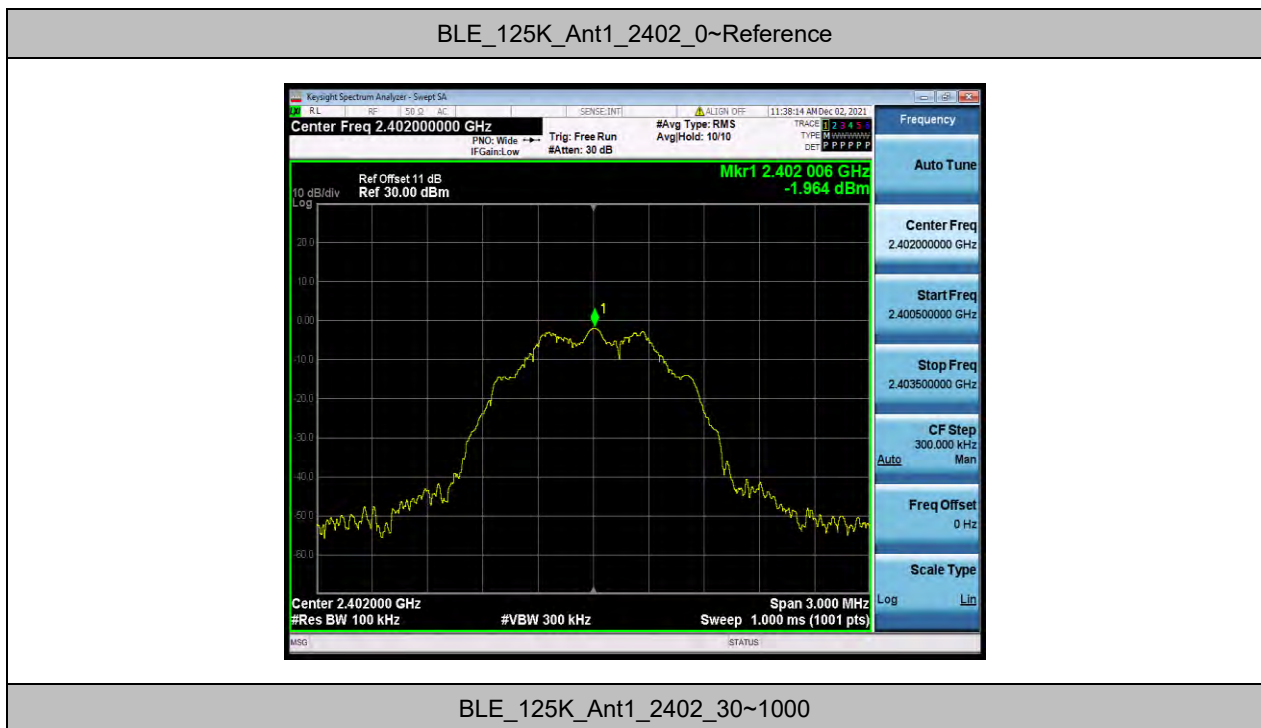
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-54.39	≤-21.96	PASS
			1000~26500	-1.96	-38.29	≤-21.96	PASS
		2440	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-54.43	≤-22.51	PASS
			1000~26500	-2.51	-38.55	≤-22.51	PASS
		2480	Reference	-3.15	-3.15	---	PASS
			30~1000	-3.15	-54.52	≤-23.15	PASS
			1000~26500	-3.15	-37.69	≤-23.15	PASS
BLE_1M	Ant1	2402	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-54.51	≤-19.48	PASS
			1000~26500	0.52	-38.14	≤-19.48	PASS
		2440	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-54.73	≤-19.45	PASS
			1000~26500	0.55	-38.15	≤-19.45	PASS
		2480	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-54.41	≤-20.3	PASS
			1000~26500	-0.30	-38.73	≤-20.3	PASS
BLE_2M	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-53.8	≤-20.15	PASS
			1000~26500	-0.15	-38	≤-20.15	PASS
		2440	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-54.25	≤-21.93	PASS
			1000~26500	-1.93	-38.48	≤-21.93	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-54.32	≤-20.7	PASS
			1000~26500	-0.70	-38.2	≤-20.7	PASS
BLE_500K	Ant1	2402	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-53.89	≤-20.05	PASS



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		1000~26500	-0.05	-38.75	≤-20.05	PASS
	2440	Reference	-0.50	-0.50	---	PASS
		30~1000	-0.50	-54.51	≤-20.5	PASS
		1000~26500	-0.50	-38.81	≤-20.5	PASS
	2480	Reference	-1.89	-1.89	---	PASS
		30~1000	-1.89	-53.94	≤-21.89	PASS
		1000~26500	-1.89	-38.09	≤-21.89	PASS

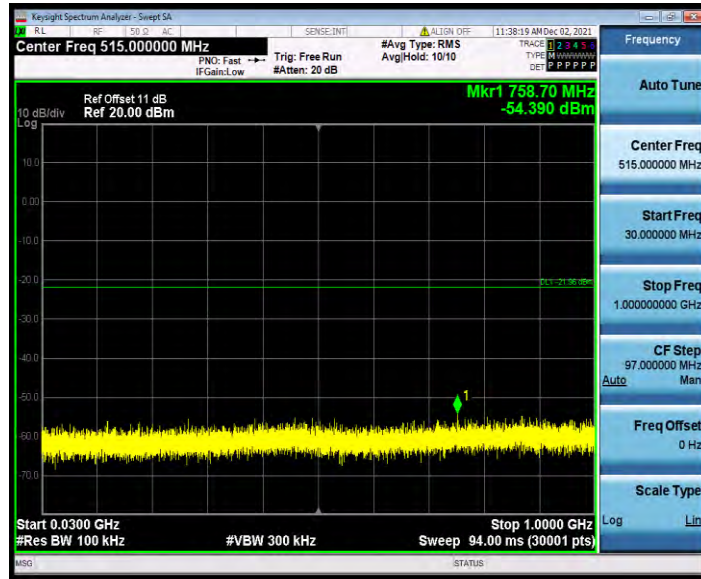
TEST GRAPHS



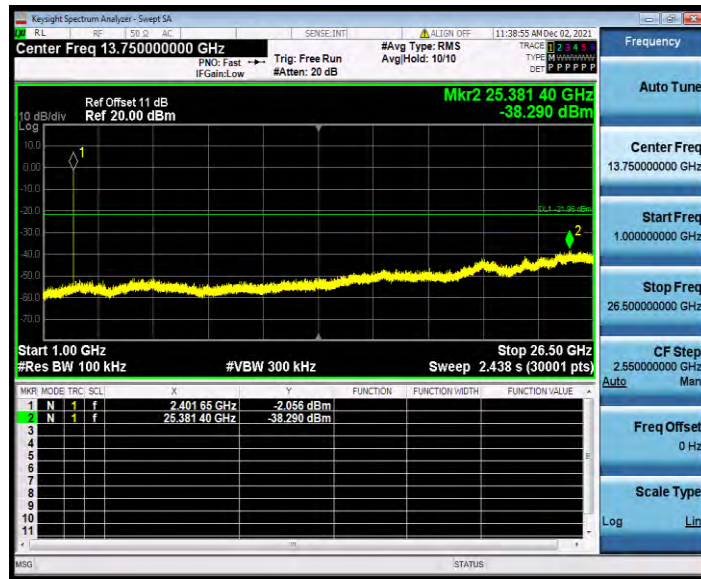


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BLE_125K_Ant1_2402_1000~26500



BLE_125K_Ant1_2440_0~Reference

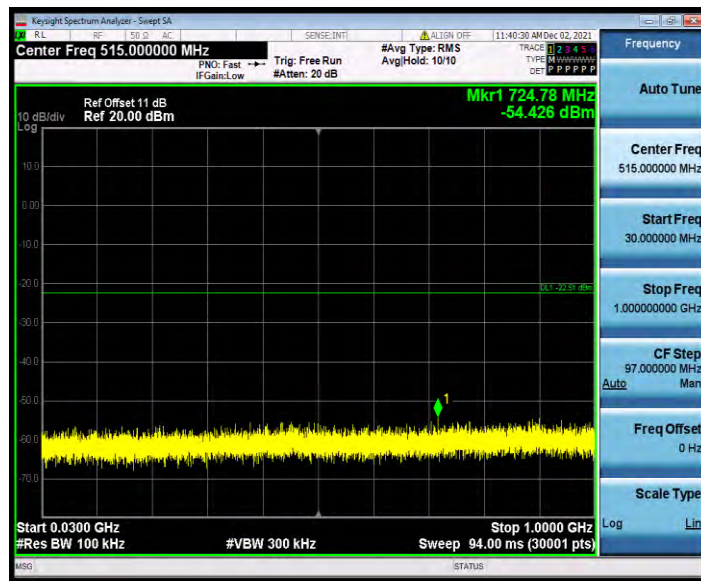


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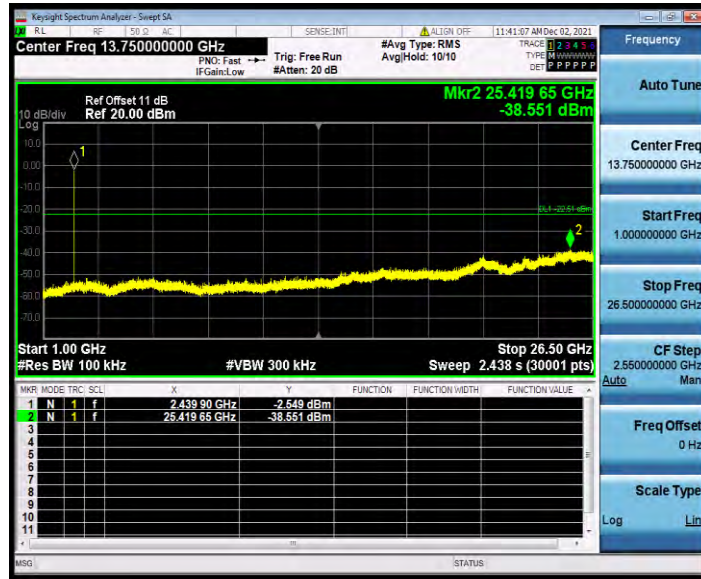
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BLE_125K_Ant1_2440_30~1000



BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference

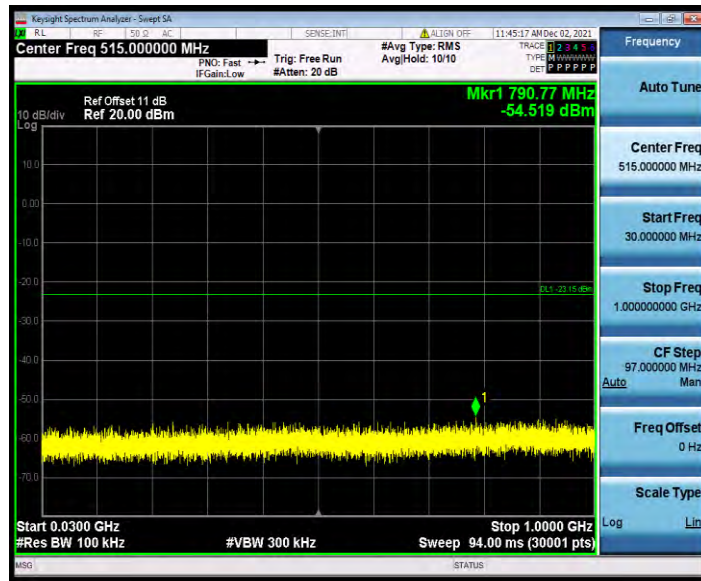


BLE_125K_Ant1_2480_30~1000

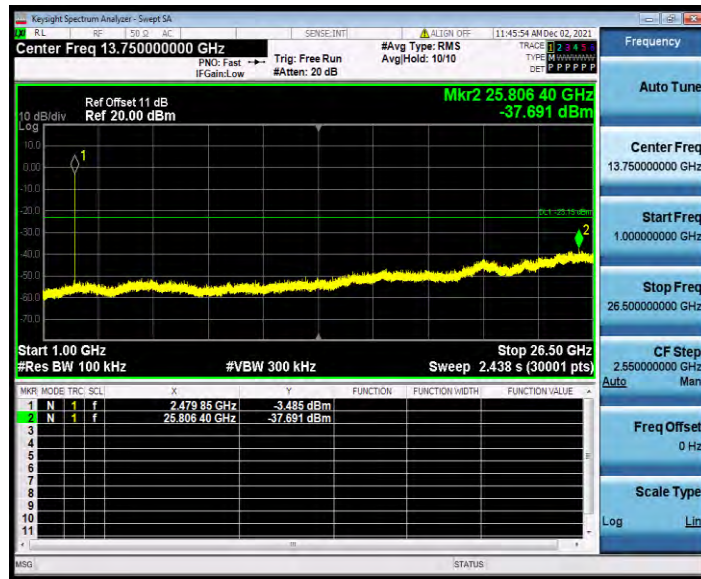


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BLE_125K_Ant1_2480_1000~26500



BLE_1M_Ant1_2402_0~Reference



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Test Report No.: W7L-P22090015-5RF02



BLE_1M_Ant1_2402_30~1000

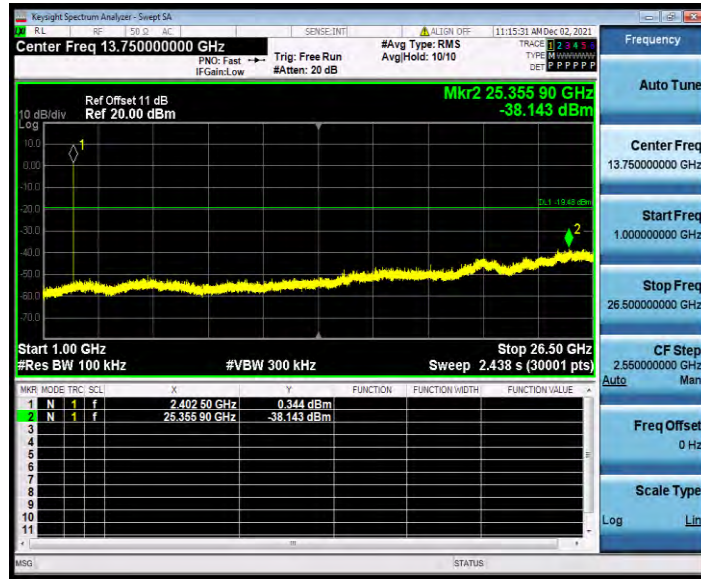


BLE_1M_Ant1_2402_1000~26500



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Test Report No.: W7L-P22090015-5RF02



BLE_1M_Ant1_2440_0~Reference

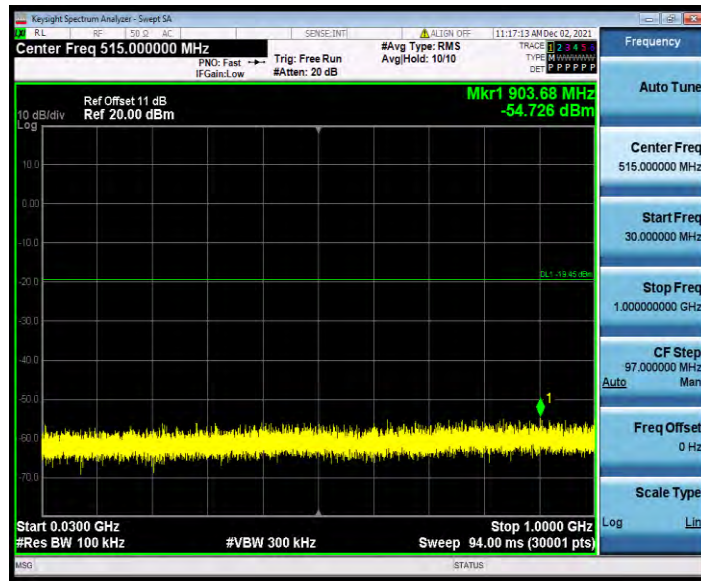


BLE_1M_Ant1_2440_30~1000

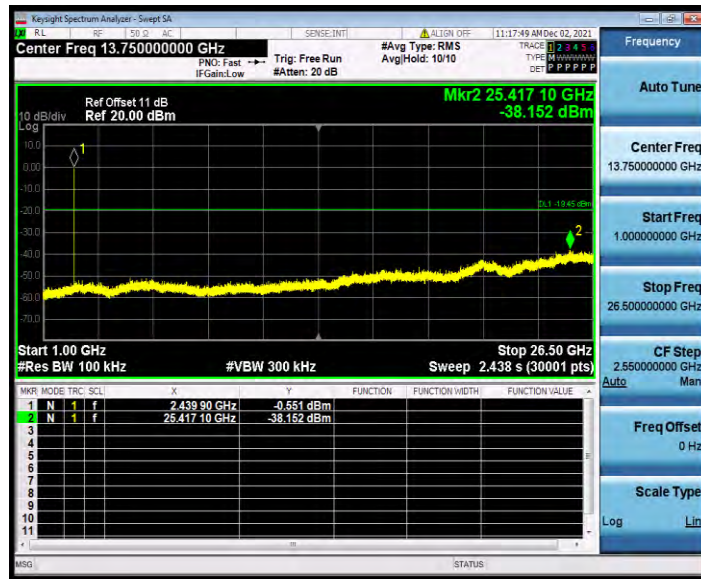


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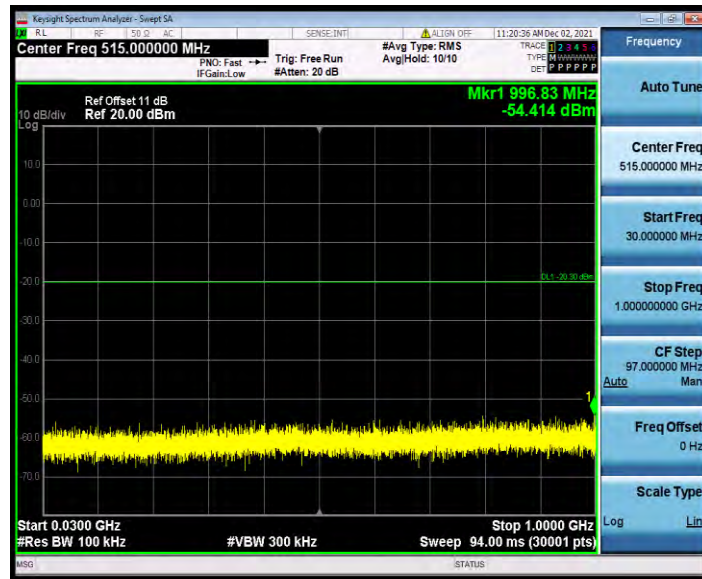
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

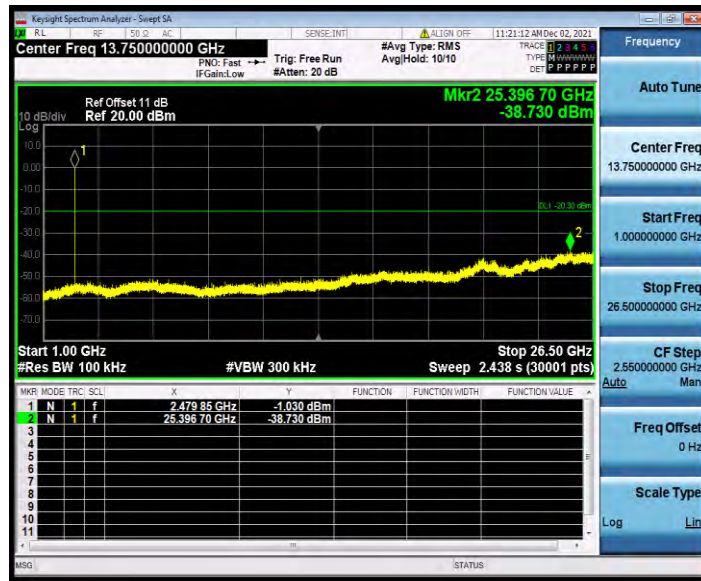


BLE_1M_Ant1_2480_1000~26500



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Test Report No.: W7L-P22090015-5RF02



BLE_2M_Ant1_2402_0~Reference

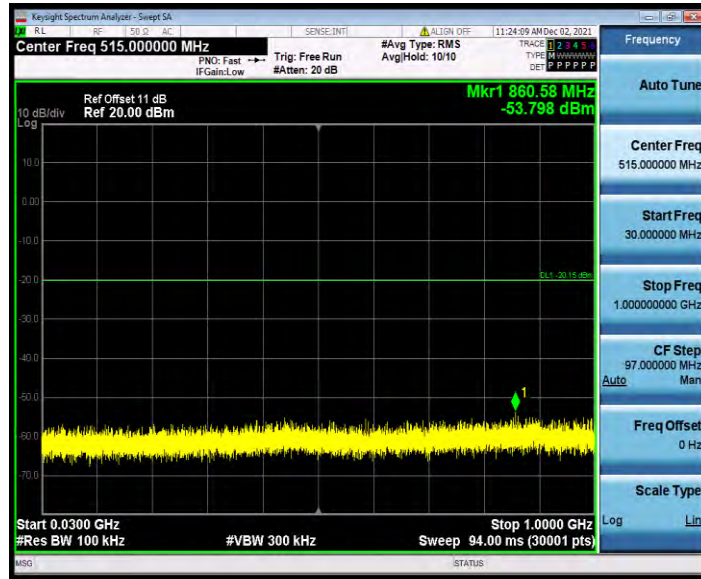


BLE_2M_Ant1_2402_30~1000

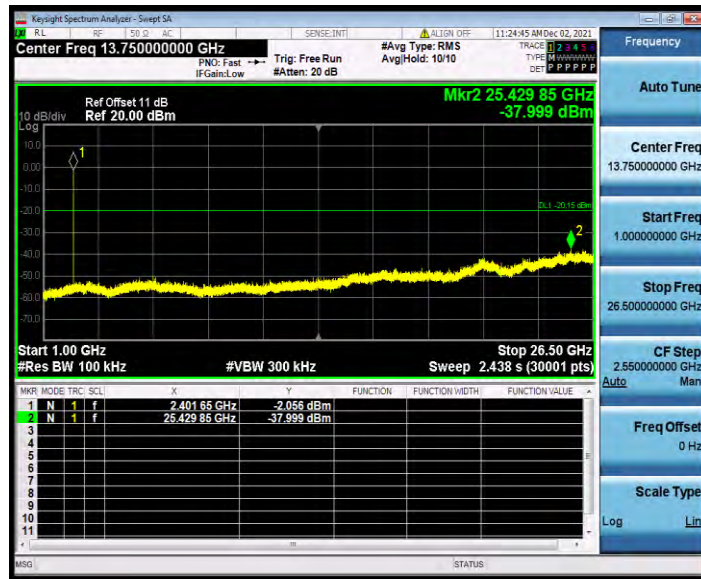


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Test Report No.: W7L-P22090015-5RF02



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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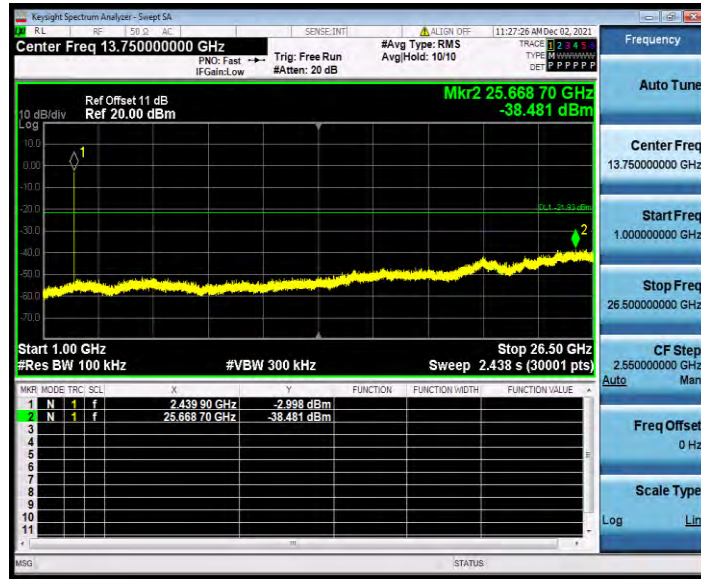
Test Report No.: W7L-P22090015-5RF02



BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

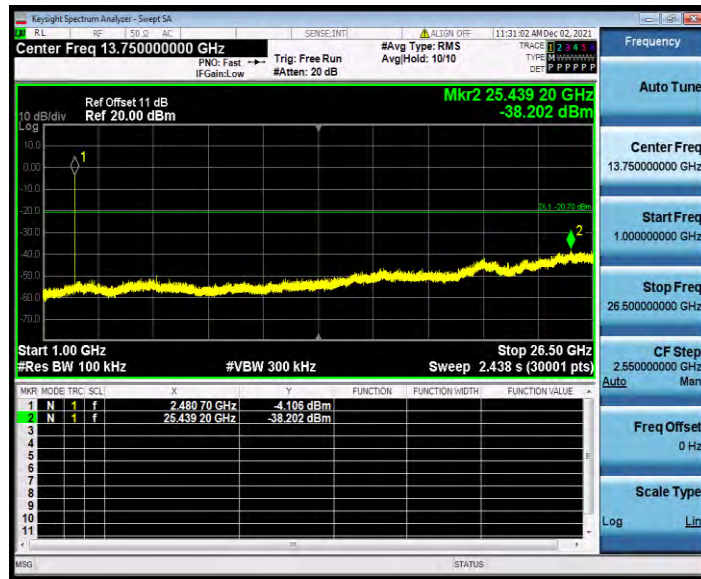


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Test Report No.: W7L-P22090015-5RF02



BLE_2M_Ant1_2480_1000~26500



BLE_500K_Ant1_2402_0~Reference

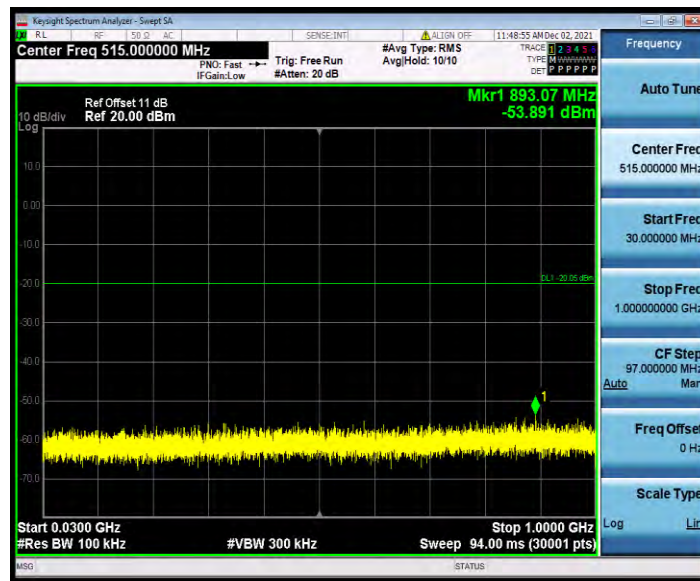


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BLE_500K_Ant1_2402_30~1000

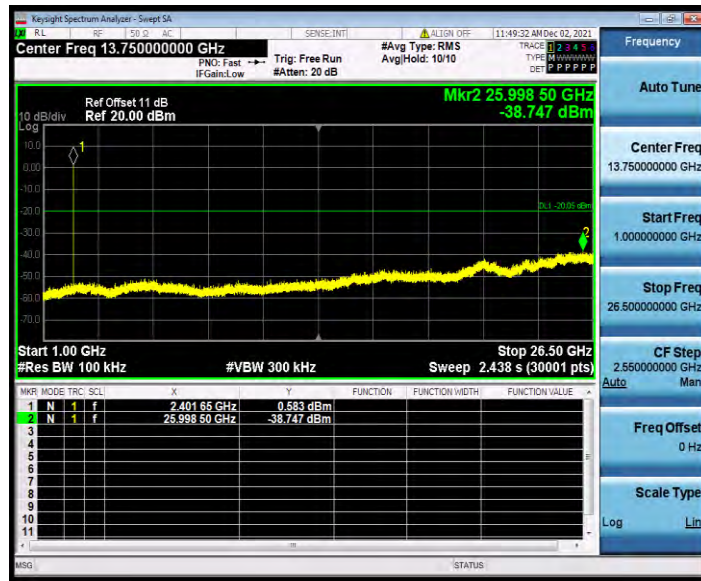


BLE_500K_Ant1_2402_1000~26500



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Test Report No.: W7L-P22090015-5RF02



BLE_500K_Ant1_2440_0~Reference

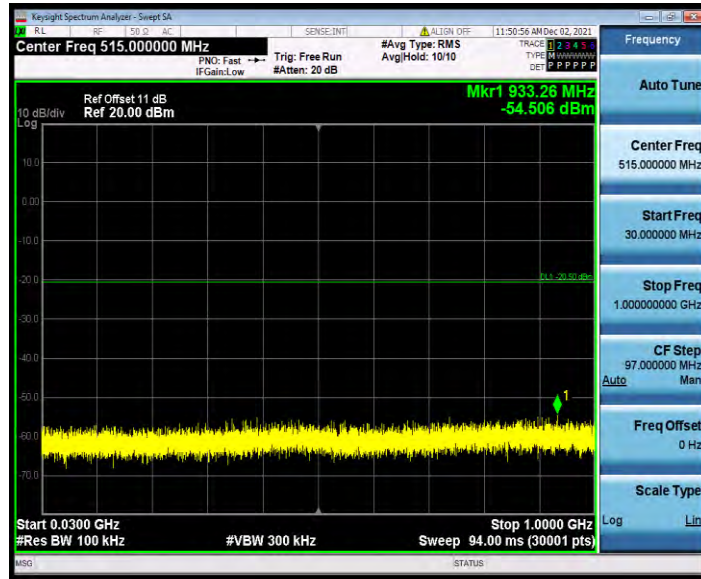


BLE_500K_Ant1_2440_30~1000

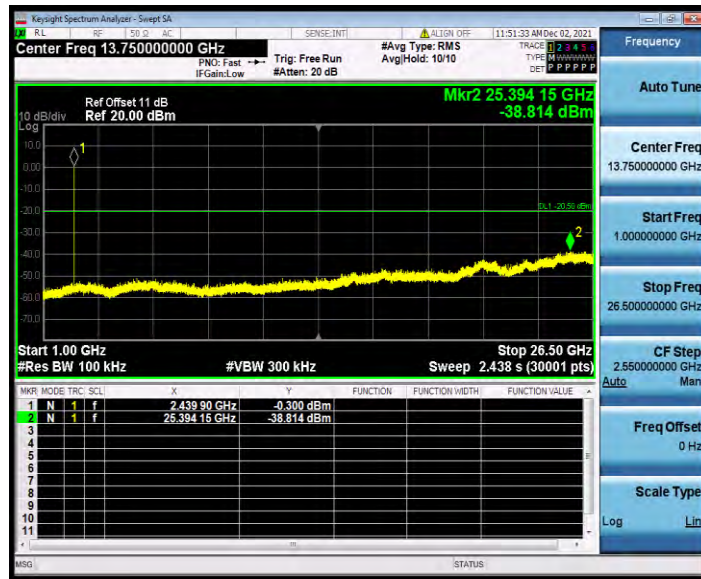


BUREAU VERITAS

Test Report No.: W7L-P22090015-5RF02



BLE_500K_Ant1_2440_1000~26500



BLE_500K_Ant1_2480_0~Reference

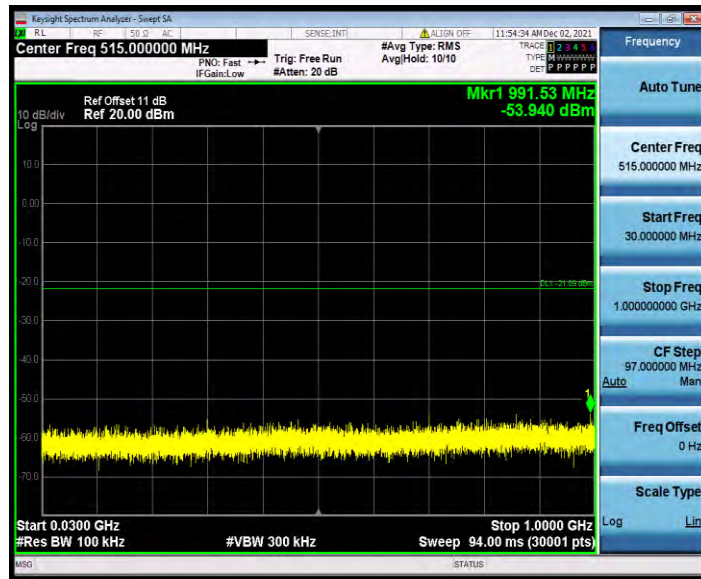


BUREAU VERITAS

Test Report No.: W7L-P22090015-5RF02



BLE_500K_Ant1_2480_30~1000

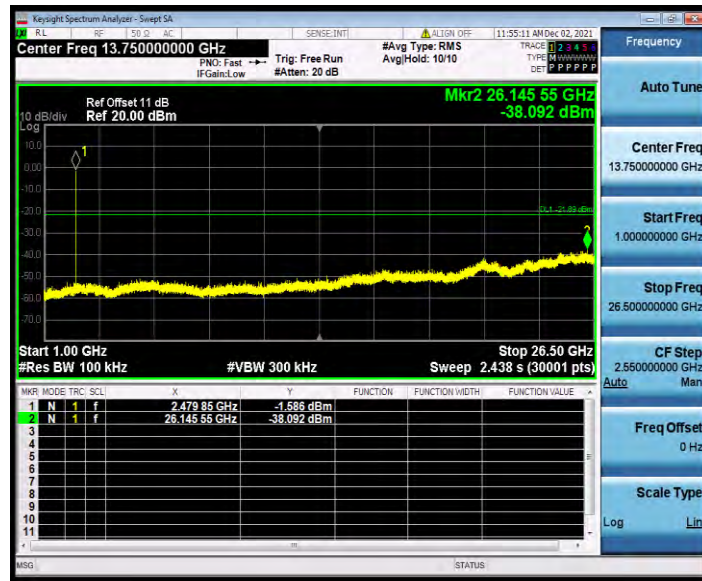


BLE_500K_Ant1_2480_1000~26500



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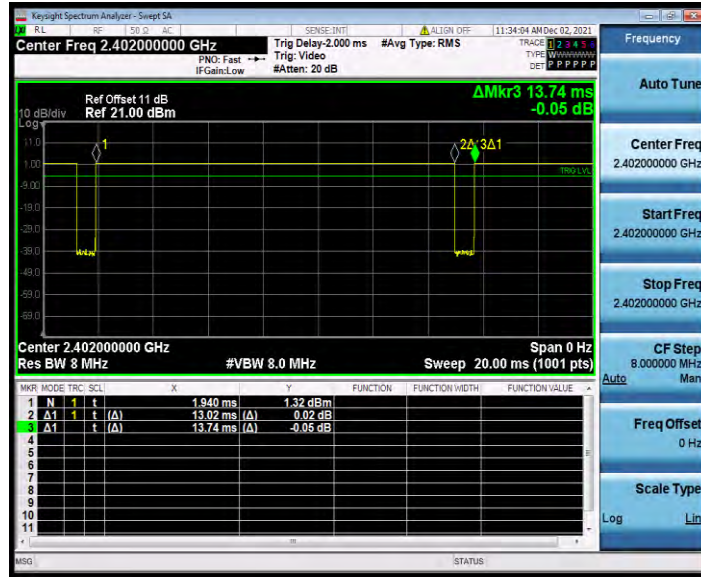
DUTY CYCLE TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_125K	Ant1	2402	13.02	13.74	0.9476	94.76	0.23	---	PASS
		2440	13.04	13.76	0.9477	94.77	0.23	---	PASS
		2480	13.04	13.74	0.9491	94.91	0.23	---	PASS
BLE_1M	Ant1	2402	1.64	1.88	0.8723	87.23	0.59	---	PASS
		2440	1.64	1.88	0.8723	87.23	0.59	---	PASS
		2480	1.64	1.88	0.8723	87.23	0.59	---	PASS
BLE_2M	Ant1	2402	0.82	1.25	0.6560	65.60	1.83	---	PASS
		2440	0.82	1.25	0.6560	65.60	1.83	---	PASS
		2480	0.83	1.25	0.6640	66.40	1.78	---	PASS
BLE_500K	Ant1	2402	3.56	4.38	0.8128	81.28	0.90	---	PASS
		2440	3.56	4.38	0.8128	81.28	0.90	---	PASS
		2480	3.56	4.38	0.8128	81.28	0.90	---	PASS

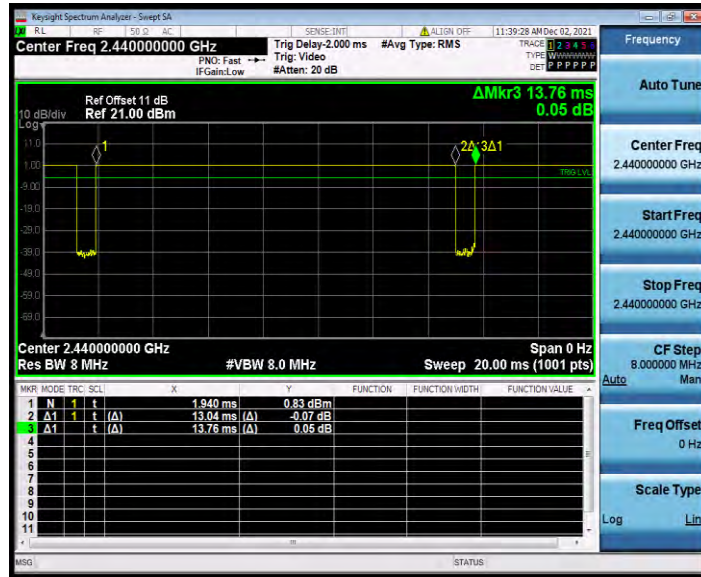


TEST GRAPHS

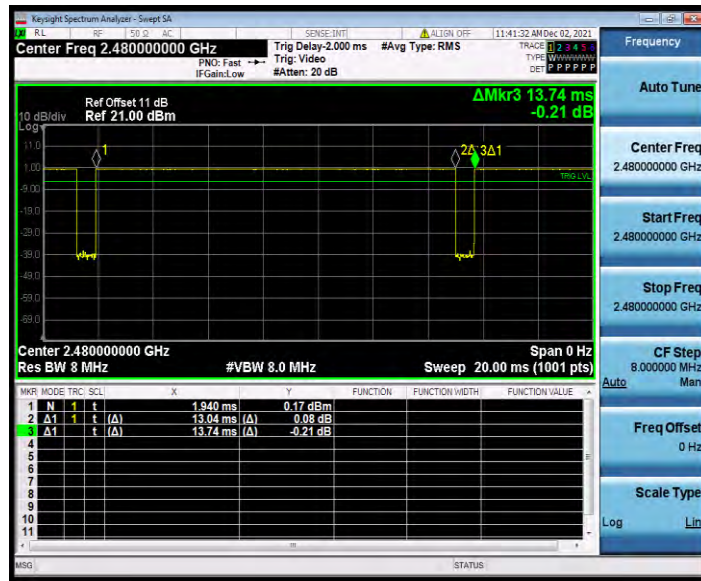
BLE_125K_Ant1_2402



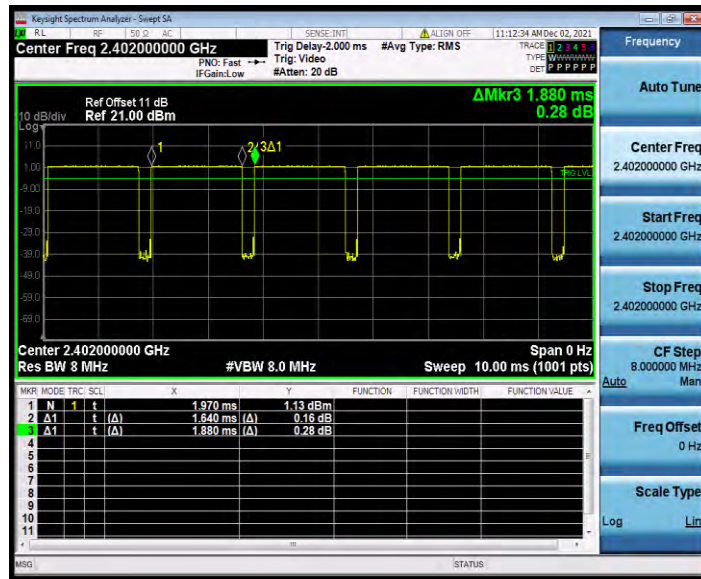
BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



BLE_1M_Ant1_2402

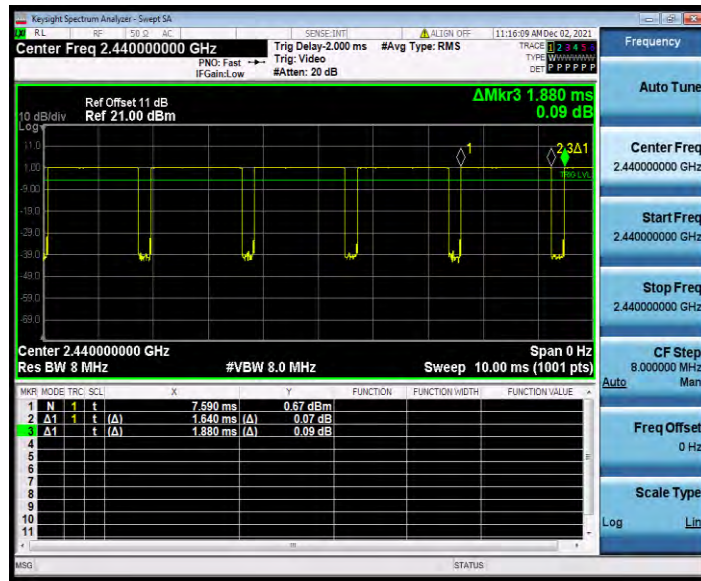


BLE_1M_Ant1_2440

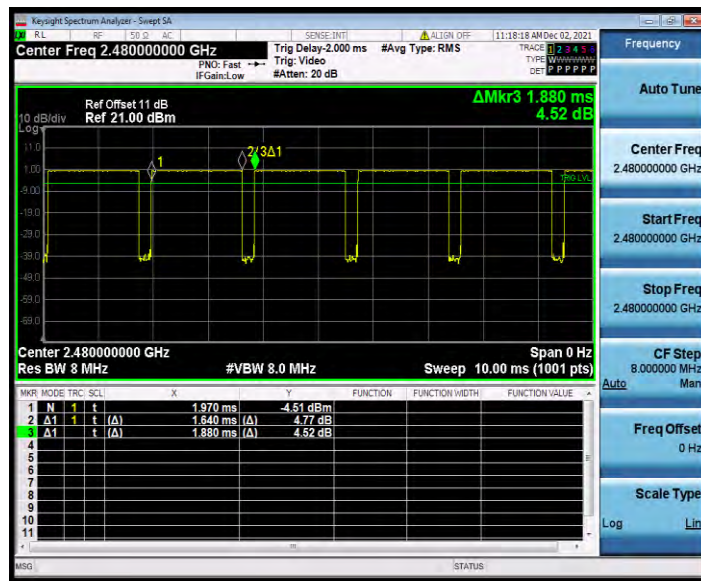


BUREAU VERITAS

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BLE_1M_Ant1_2480

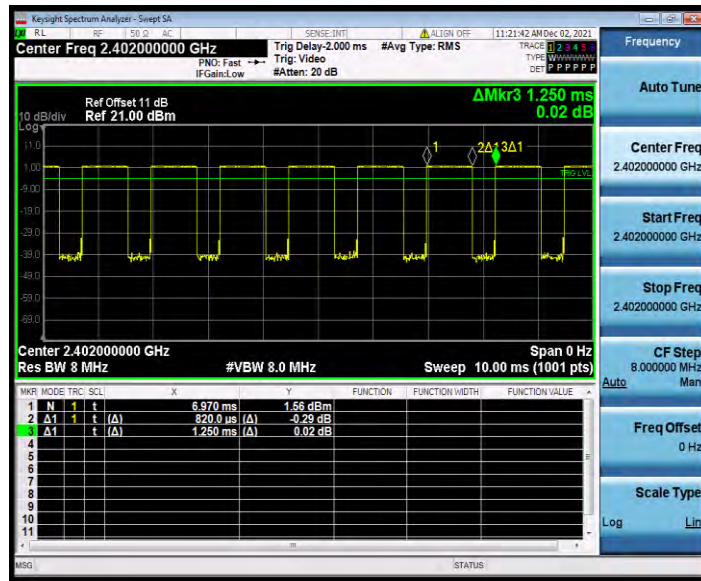


BLE_2M_Ant1_2402

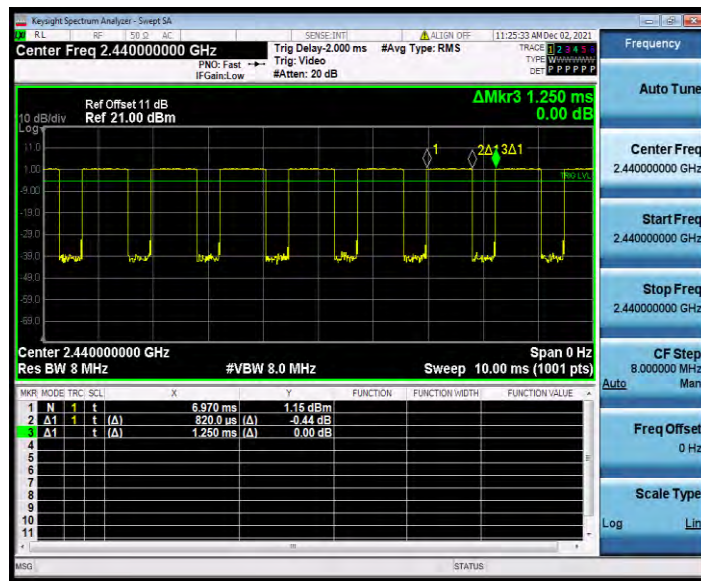


BUREAU VERITAS

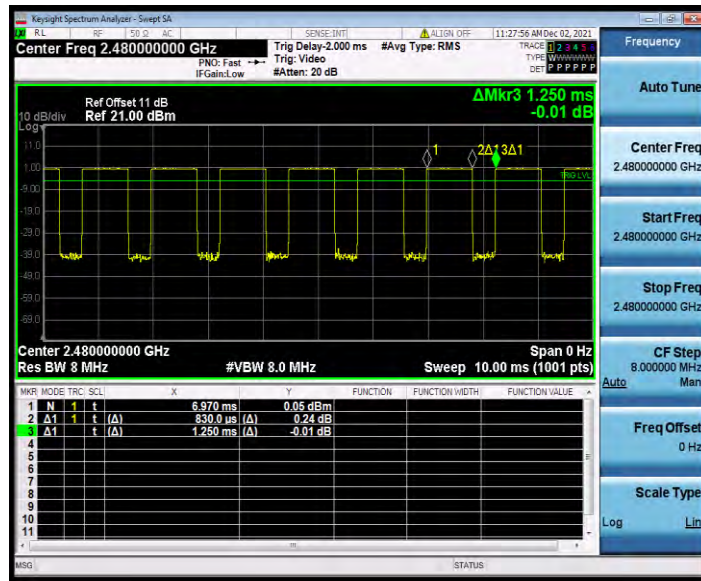
Test Report No.: W7L-P22090015-5RF02



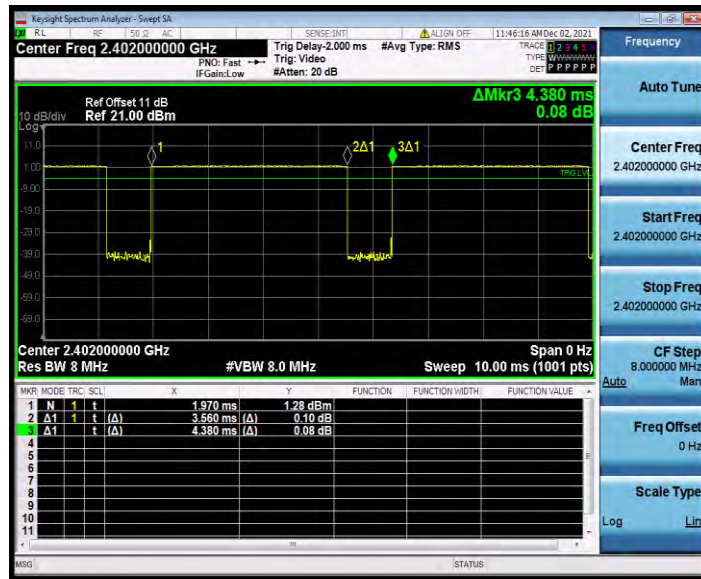
BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BLE_500K_Ant1_2402

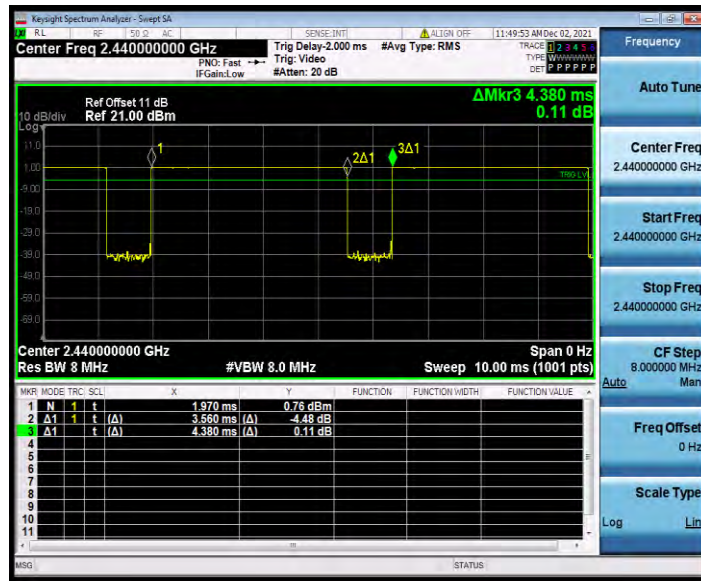


BLE_500K_Ant1_2440

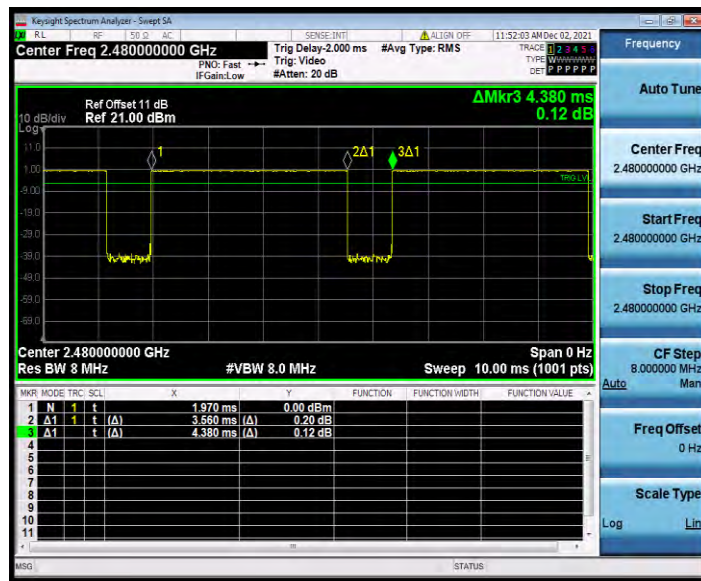


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BLE_500K_Ant1_2480



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7 Appendix 2 WLAN 2.4G

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.520	2408.480	2416.000	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.040	2404.120	2420.160	0.5	PASS
		2437	15.400	2429.480	2444.880	0.5	PASS
		2462	15.680	2454.120	2469.800	0.5	PASS
11N20SISO	Ant1	2412	16.560	2403.800	2420.360	0.5	PASS
		2437	16.440	2428.640	2445.080	0.5	PASS
		2462	16.520	2453.800	2470.320	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.480	2440.000	0.5	PASS
		2437	34.960	2419.480	2454.440	0.5	PASS
		2452	35.840	2434.000	2469.840	0.5	PASS

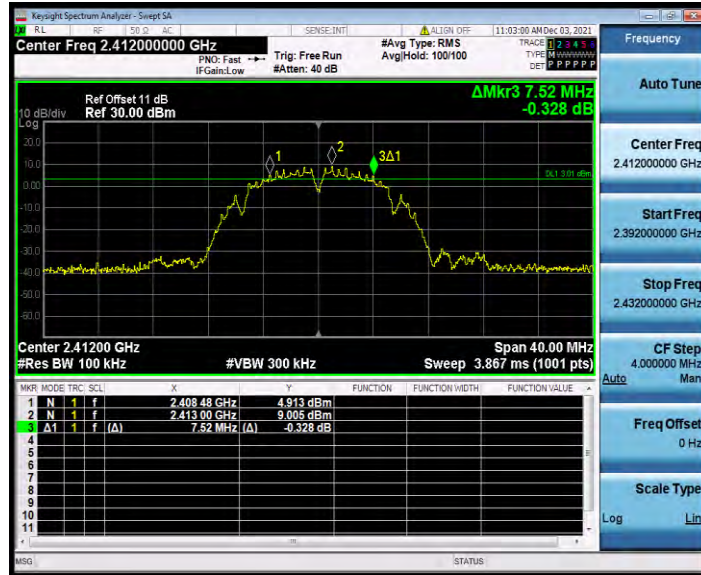


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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

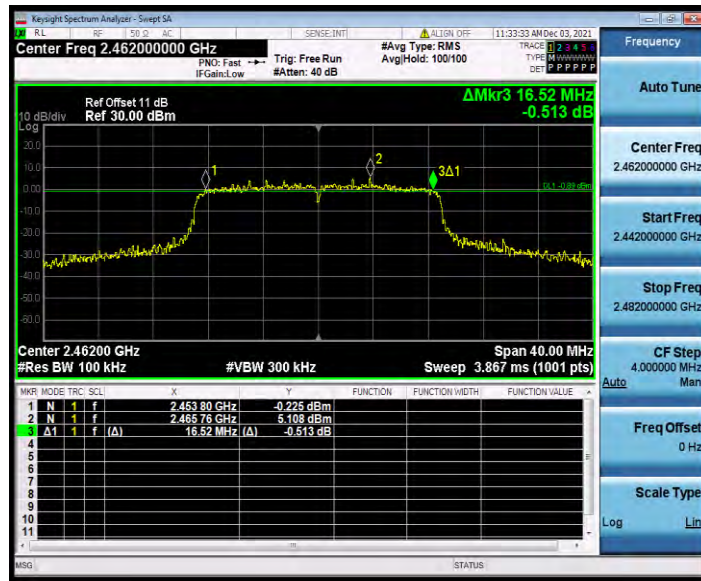


11N20SISO_Ant1_2462



BUREAU VERITAS

Test Report No.: W7L-P22090015-5RF02



11N40SISO_Ant1_2422

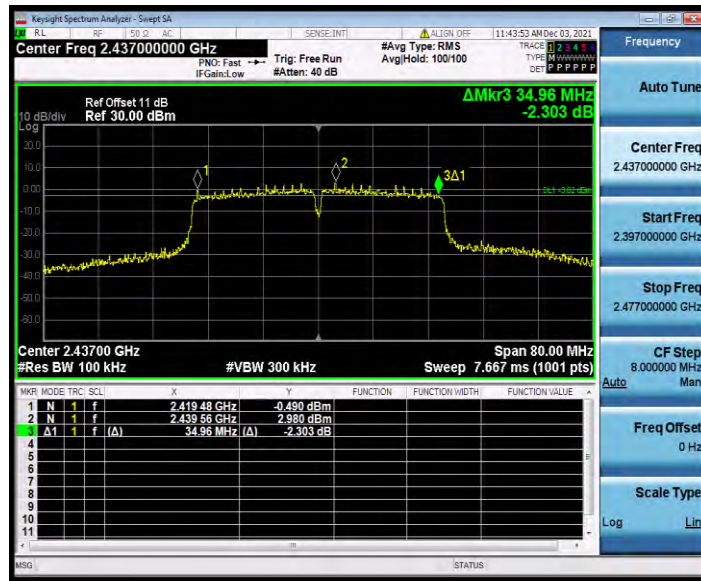


11N40SISO_Ant1_2437



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Test Report No.: W7L-P22090015-5RF02



11N40SISO_Ant1_2452



BV 7Layers Communications Technology (Shenzhen) Co., Ltd

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OCCUPIED CHANNEL BANDWIDTH

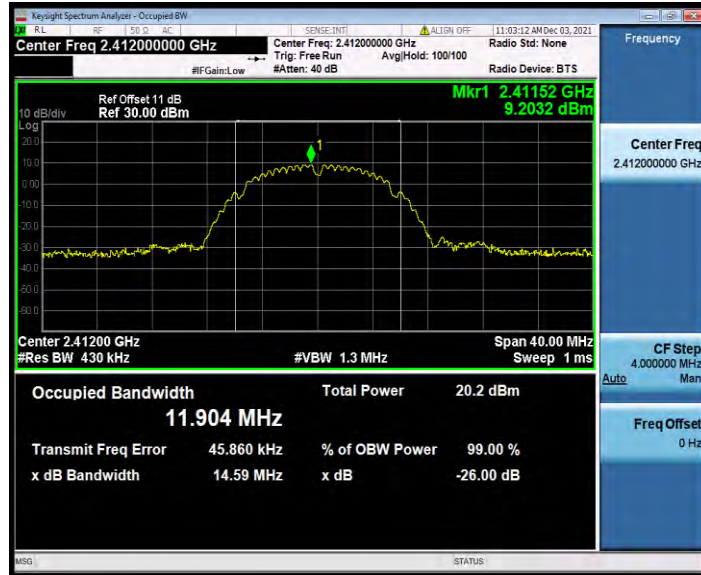
TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.904	2406.094	2417.998	---	PASS
		2437	11.799	2431.149	2442.948	---	PASS
		2462	11.819	2456.153	2467.972	---	PASS
11G	Ant1	2412	16.814	2403.673	2420.487	---	PASS
		2437	16.986	2428.624	2445.610	---	PASS
		2462	16.865	2453.601	2470.466	---	PASS
11N20SISO	Ant1	2412	17.651	2403.262	2420.913	---	PASS
		2437	17.653	2428.232	2445.885	---	PASS
		2462	17.685	2453.193	2470.878	---	PASS
11N40SISO	Ant1	2422	36.414	2404.043	2440.457	---	PASS
		2437	36.128	2419.053	2455.181	---	PASS
		2452	36.328	2433.809	2470.137	---	PASS

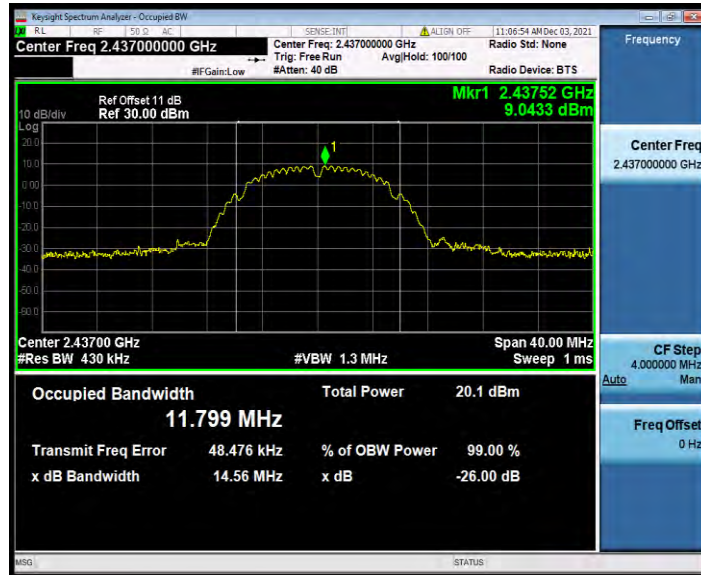


TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462