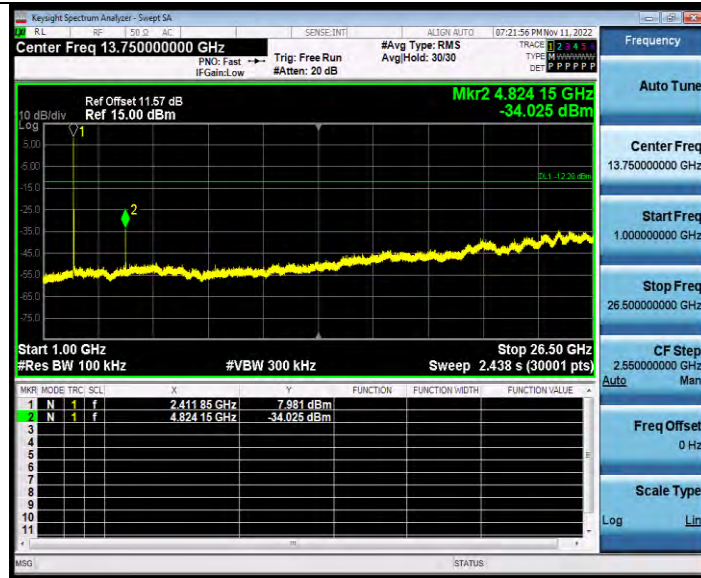




BUREAU VERITAS

Test Report No.: W7L-P22110001RF02



11B_Ant1_2437_0~Reference

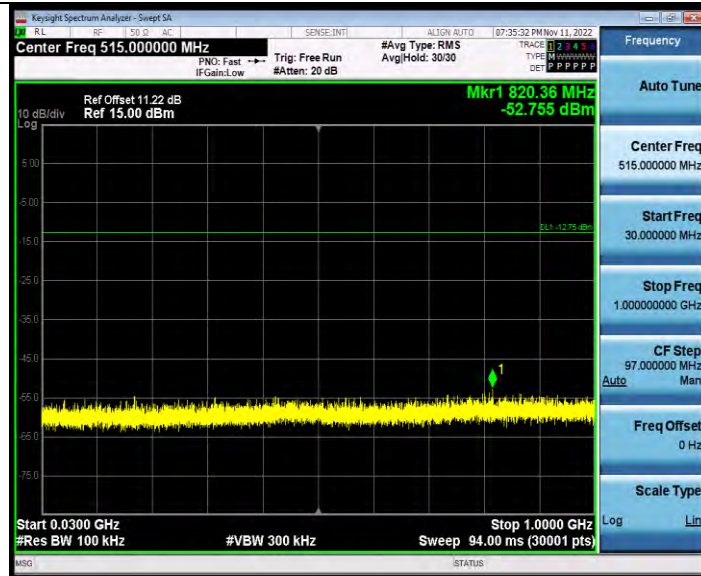


11B_Ant1_2437_30~1000



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Test Report No.: W7L-P22110001RF02



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

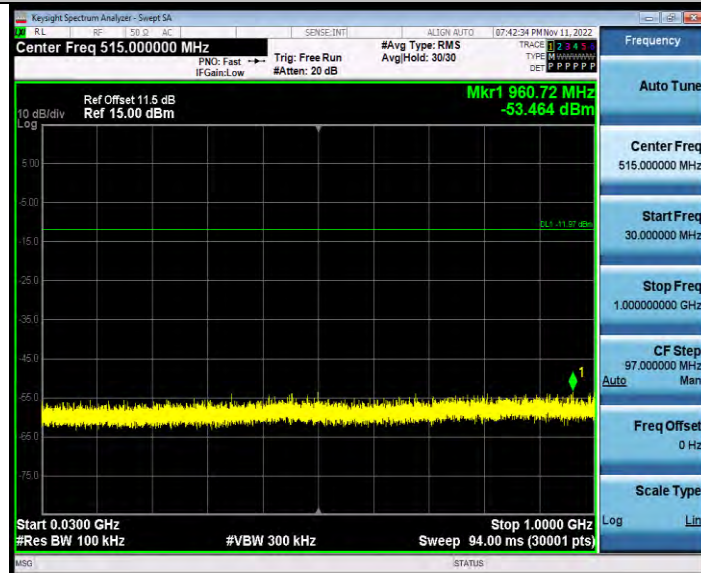


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VERITAS**

Test Report No.: W7L-P22110001RF02



11B_Ant1_2462_30~1000

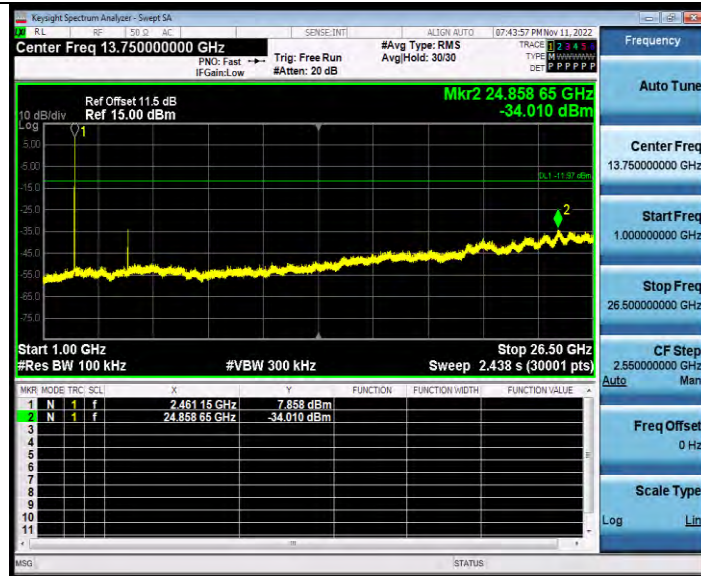


11B_Ant1_2462_1000~26500



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VERITAS**

Test Report No.: W7L-P22110001RF02



11G_Ant1_2412_0~Reference

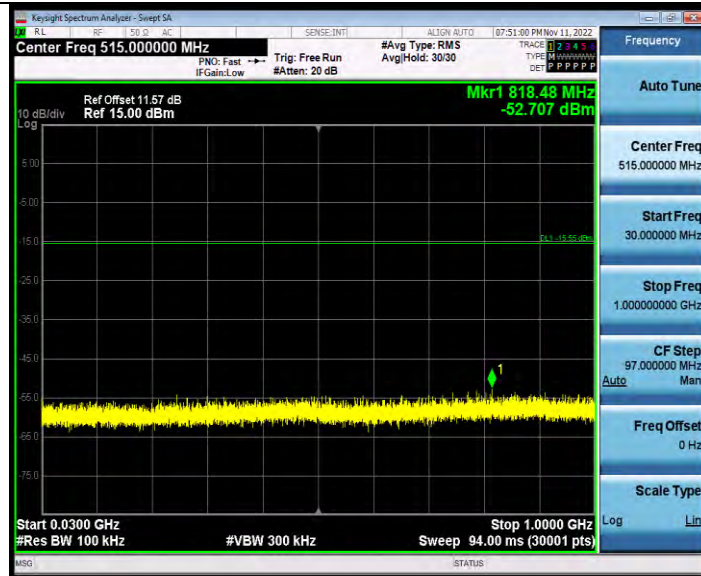


11G_Ant1_2412_30~1000



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Test Report No.: W7L-P22110001RF02



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

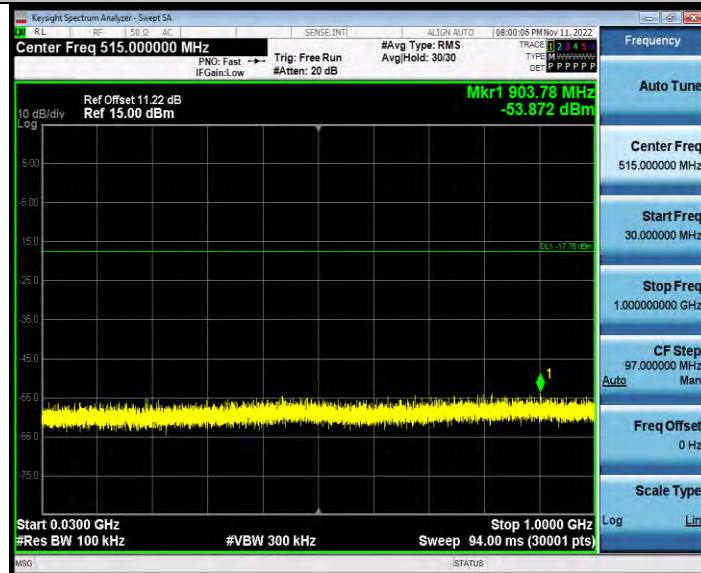


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Test Report No.: W7L-P22110001RF02



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



BUREAU VERITAS Test Report No.: W7L-P22110001RF02



11G_Ant1_2462_0~Reference

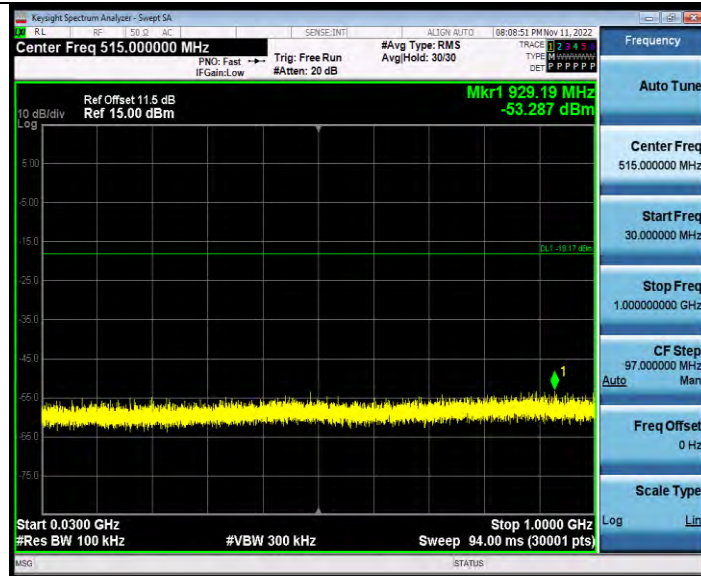


11G_Ant1_2462_30~1000



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Test Report No.: W7L-P22110001RF02



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

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Test Report No.: W7L-P22110001RF02



11N20SISO_Ant1_2412_30~1000

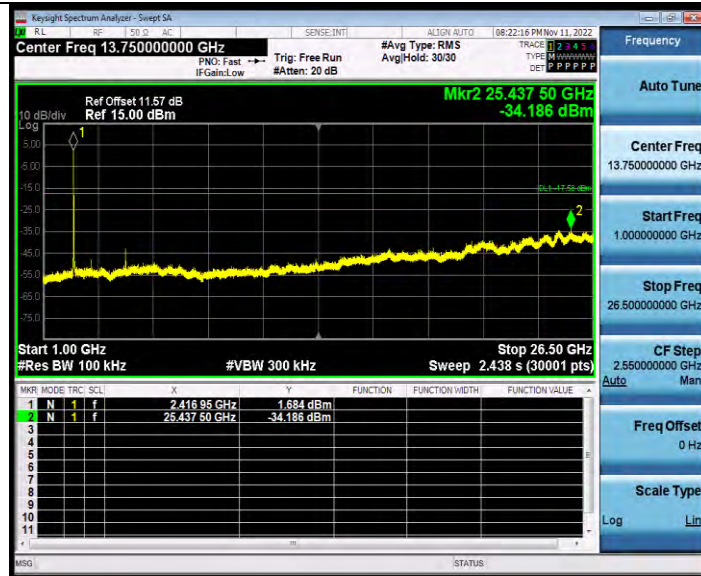


11N20SISO_Ant1_2412_1000~26500



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VERITAS**

Test Report No.: W7L-P22110001RF02



11N20SISO_Ant1_2437_0~Reference

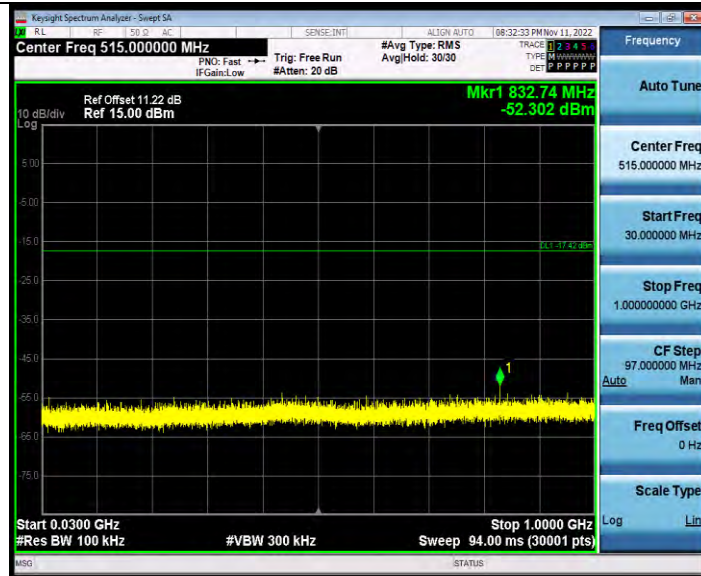


11N20SISO_Ant1_2437_30~1000



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VERITAS**

Test Report No.: W7L-P22110001RF02



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



11N20SISO_Ant1_2462_30~1000

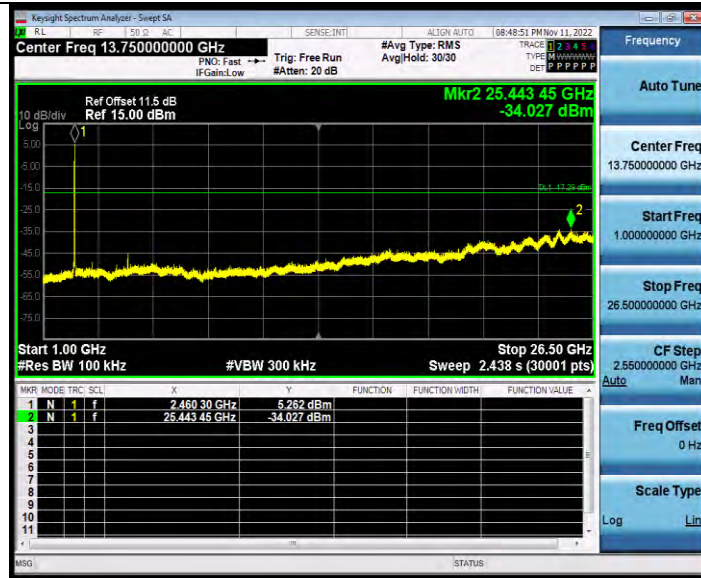


11N20SISO_Ant1_2462_1000~26500



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2422_0~Reference

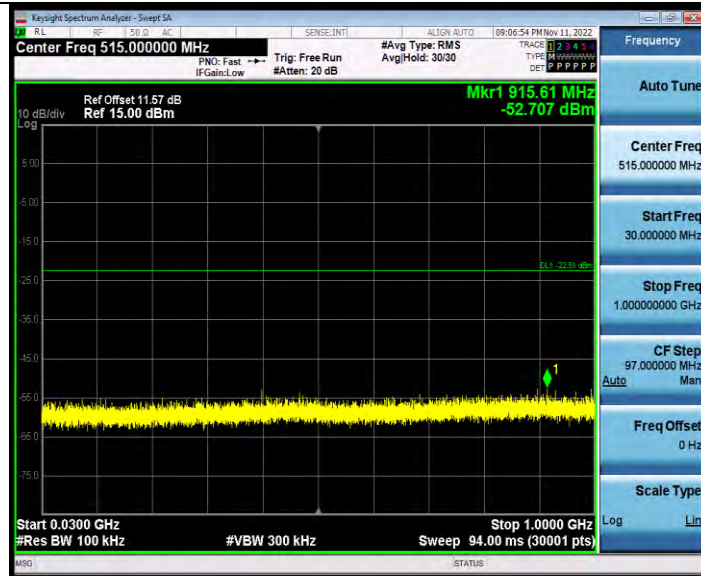


11N40SISO_Ant1_2422_30~1000



**BUREAU
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Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference

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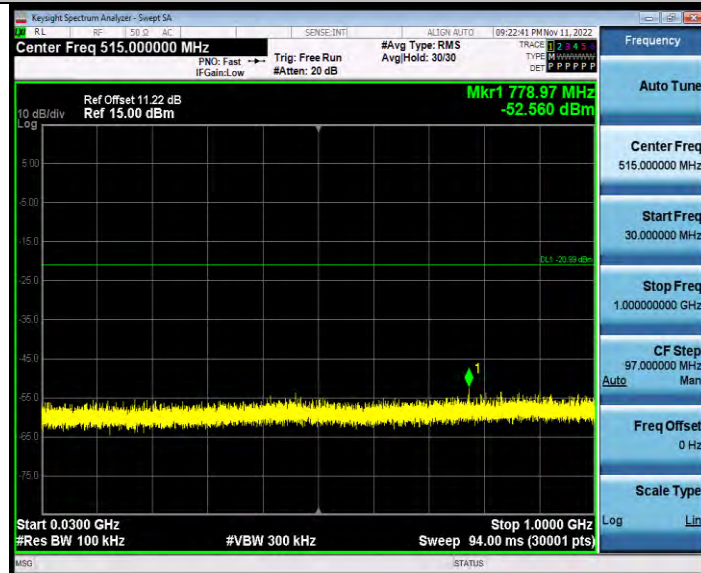


**BUREAU
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Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2437_30~1000

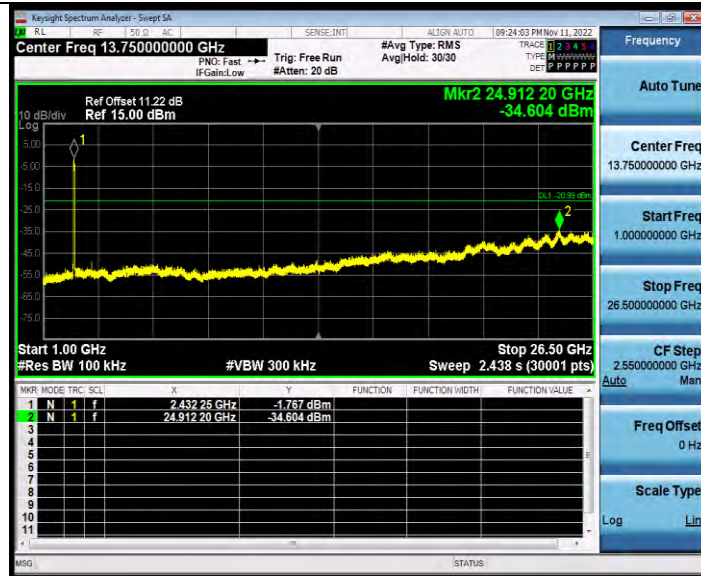


11N40SISO_Ant1_2437_1000~26500



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Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2452_1000~26500





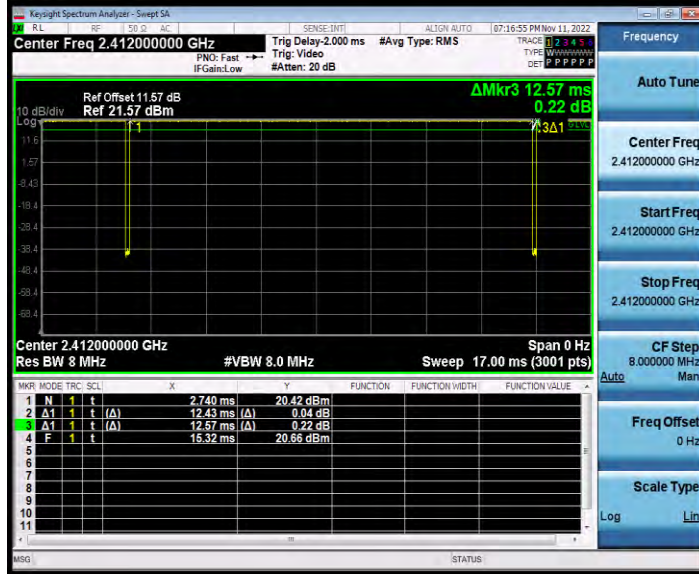
DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.57	98.89	0.05
		2437	12.43	12.69	97.95	0.09
		2462	12.43	12.56	98.96	0.05
11G	Ant1	2412	2.06	2.10	98.10	0.08
		2437	2.07	2.10	98.57	0.06
		2462	2.06	2.10	98.10	0.08
11N20SISO	Ant1	2412	1.93	1.96	98.47	0.07
		2437	1.92	1.96	97.96	0.09
		2462	1.92	1.96	97.96	0.09
11N40SISO	Ant1	2422	0.95	1.00	95.00	0.22
		2437	0.95	1.00	95.00	0.22
		2452	0.95	1.00	95.00	0.22

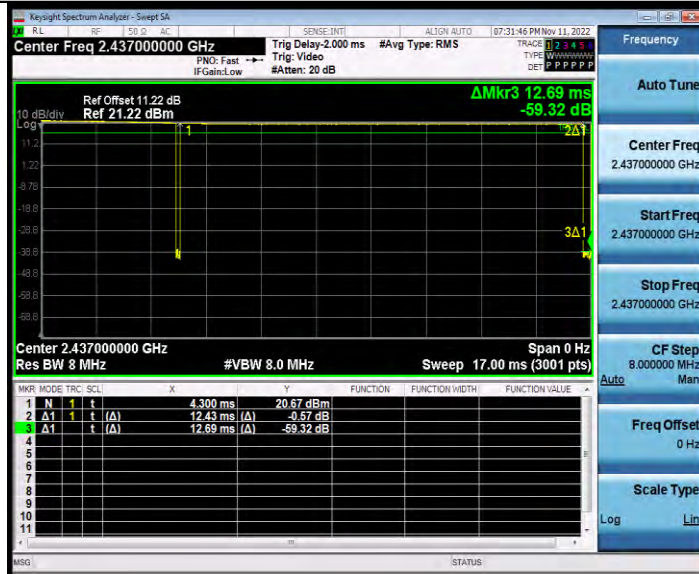


TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

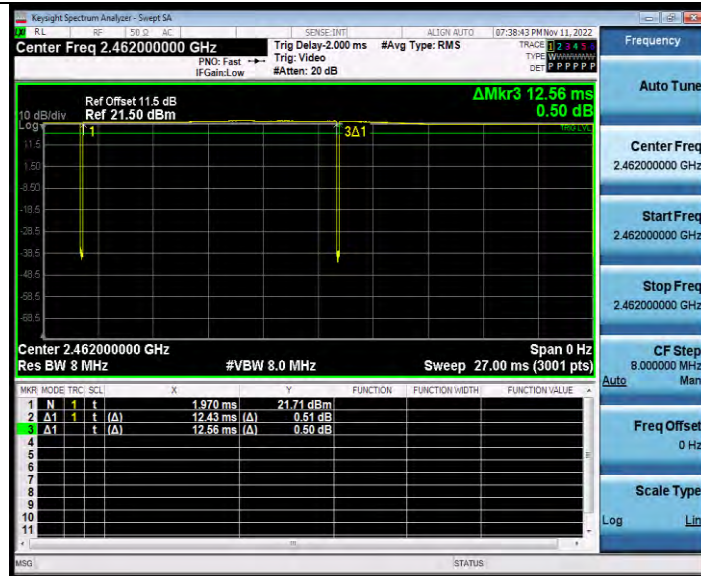


11B_Ant1_2462

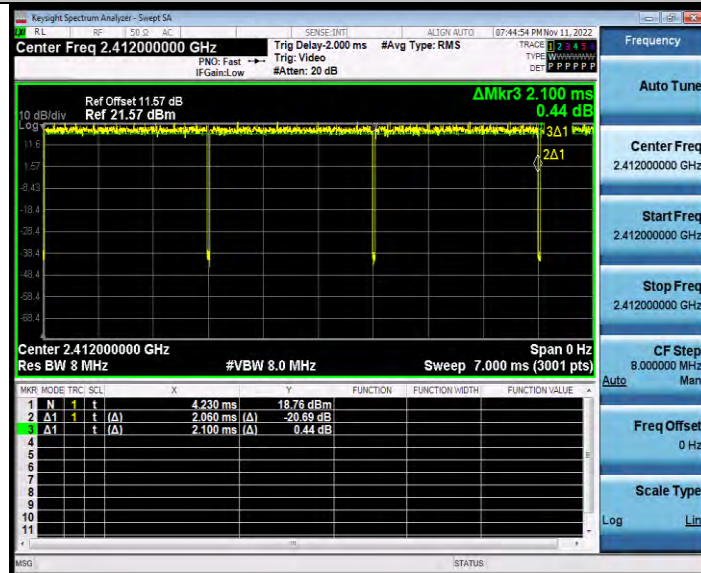


BUREAU VERITAS

Test Report No.: W7L-P22110001RF02



11G_Ant1_2412

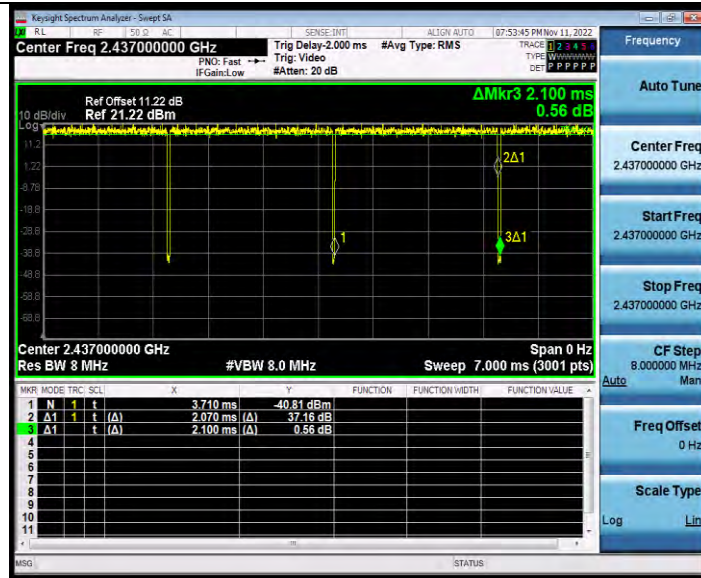


11G_Ant1_2437

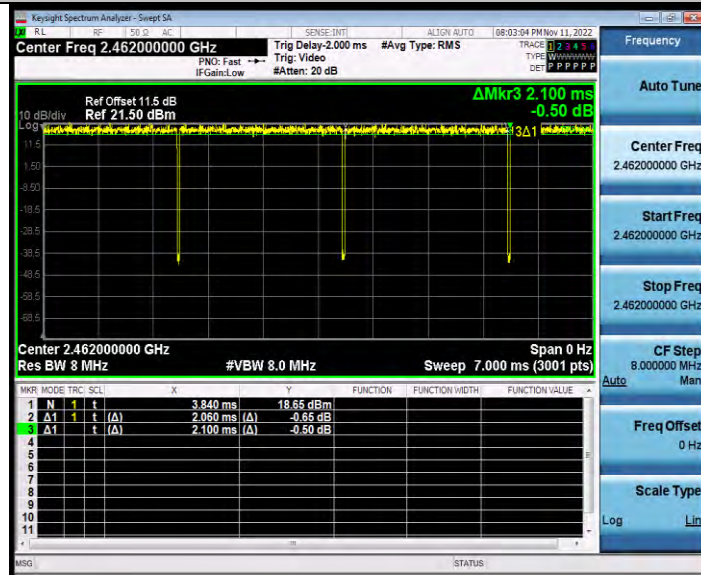


BUREAU VERITAS

Test Report No.: W7L-P22110001RF02



11G_Ant1_2462

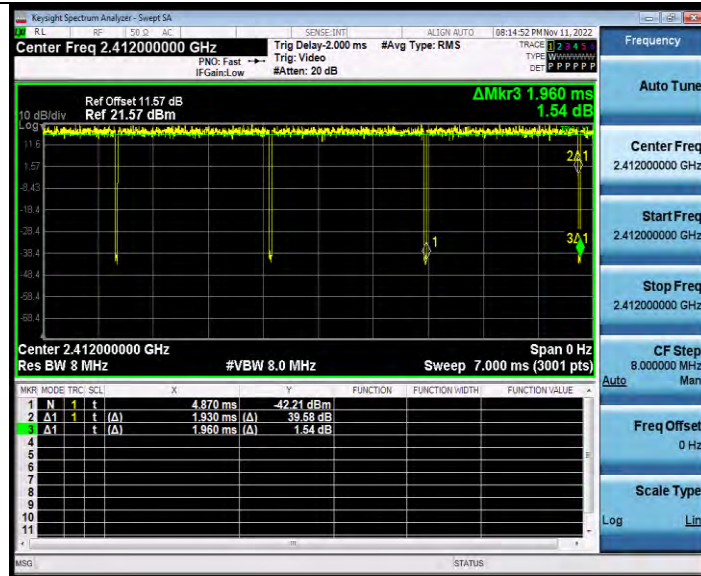


11N20SISO_Ant1_2412

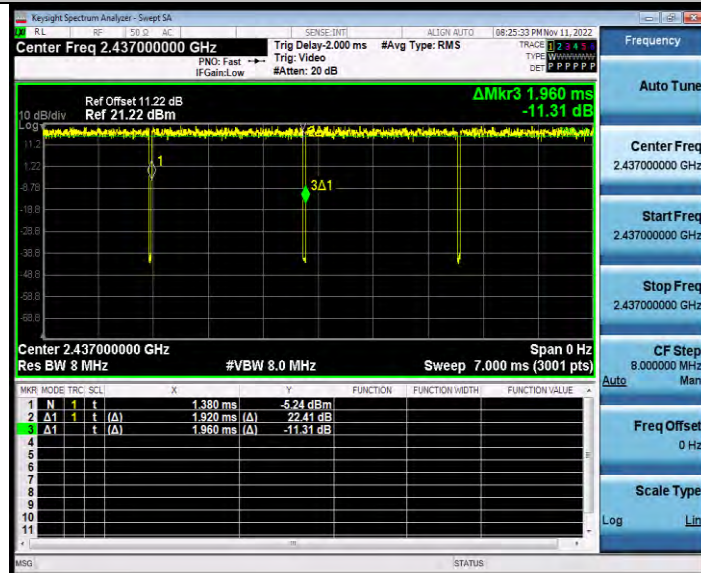


BUREAU VERITAS

Test Report No.: W7L-P22110001RF02



11N20SISO_Ant1_2437

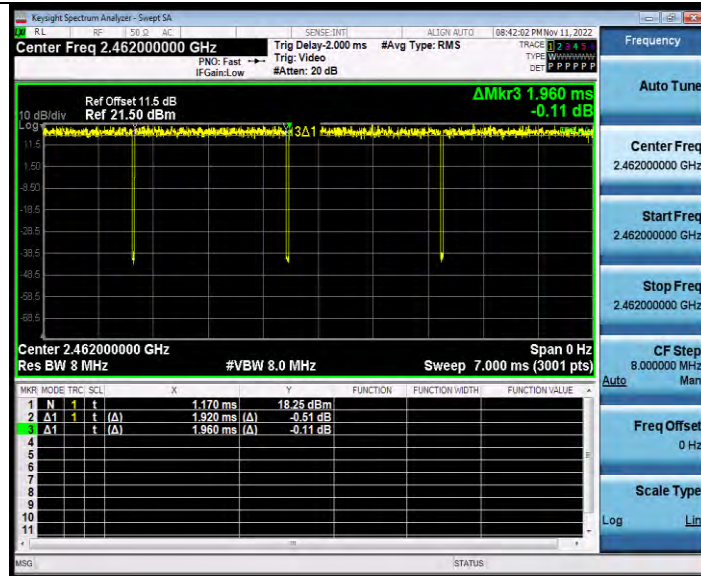


11N20SISO_Ant1_2462

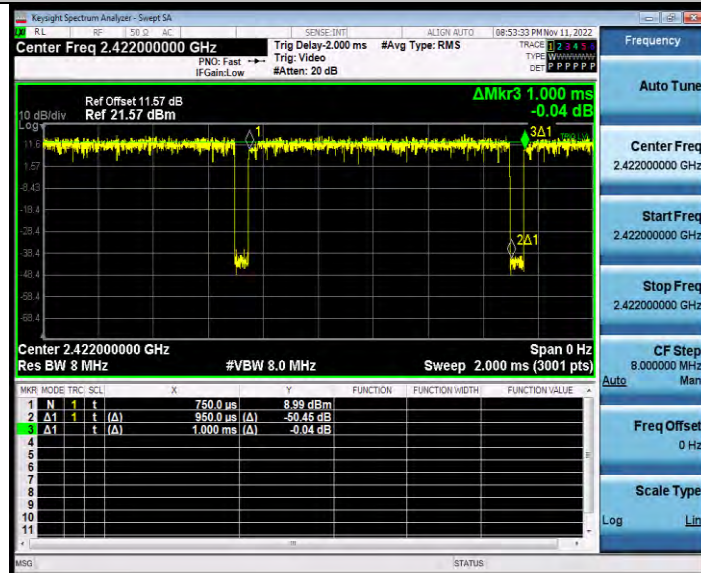


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Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2422

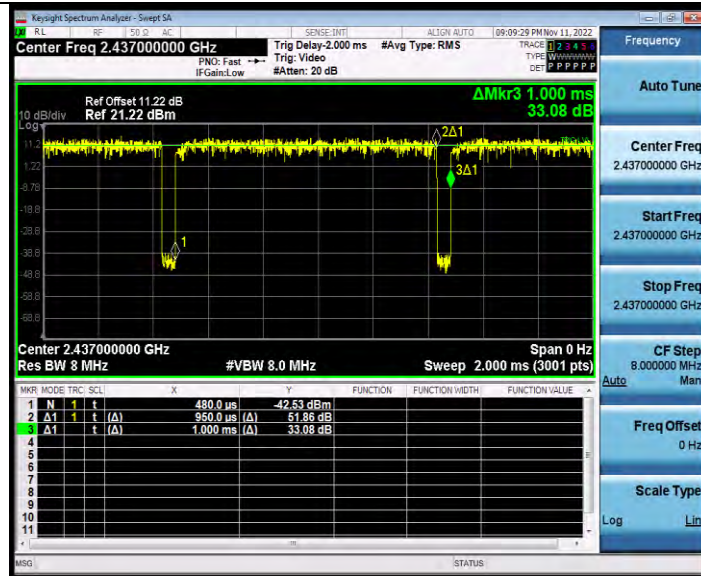


11N40SISO_Ant1_2437

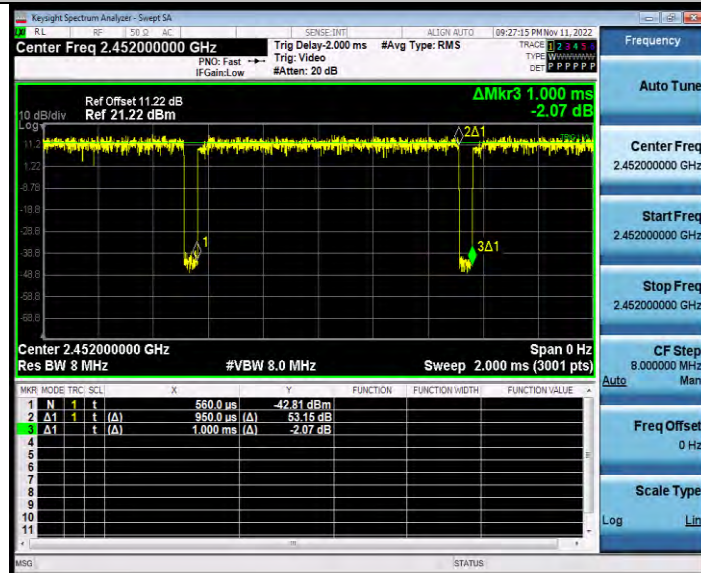


BUREAU VERITAS

Test Report No.: W7L-P22110001RF02



11N40SISO_Ant1_2452





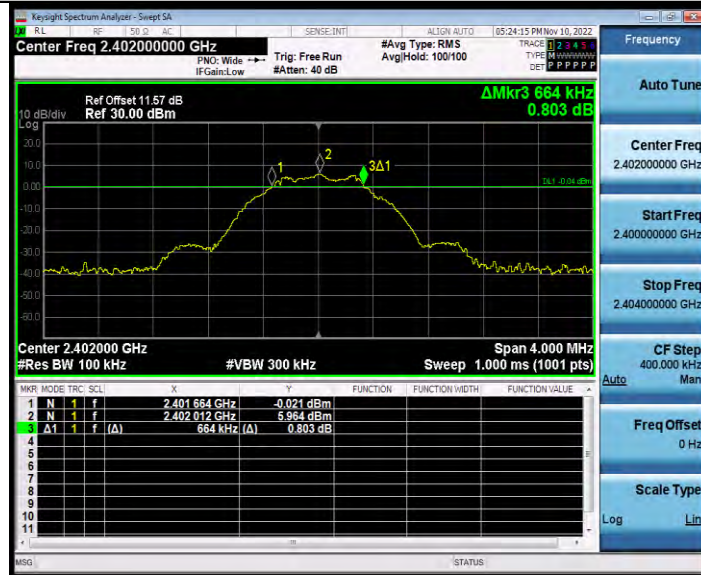
7 Appendix 2 BLE DTS BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.660	2439.680	2440.340	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS

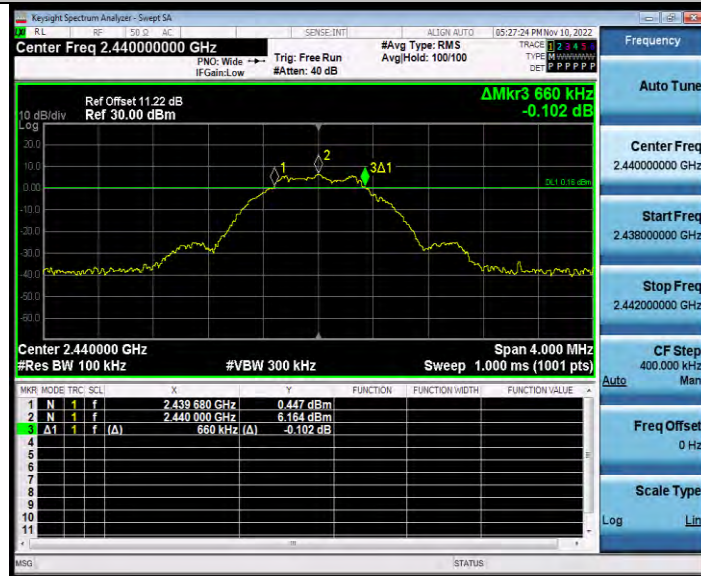


TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

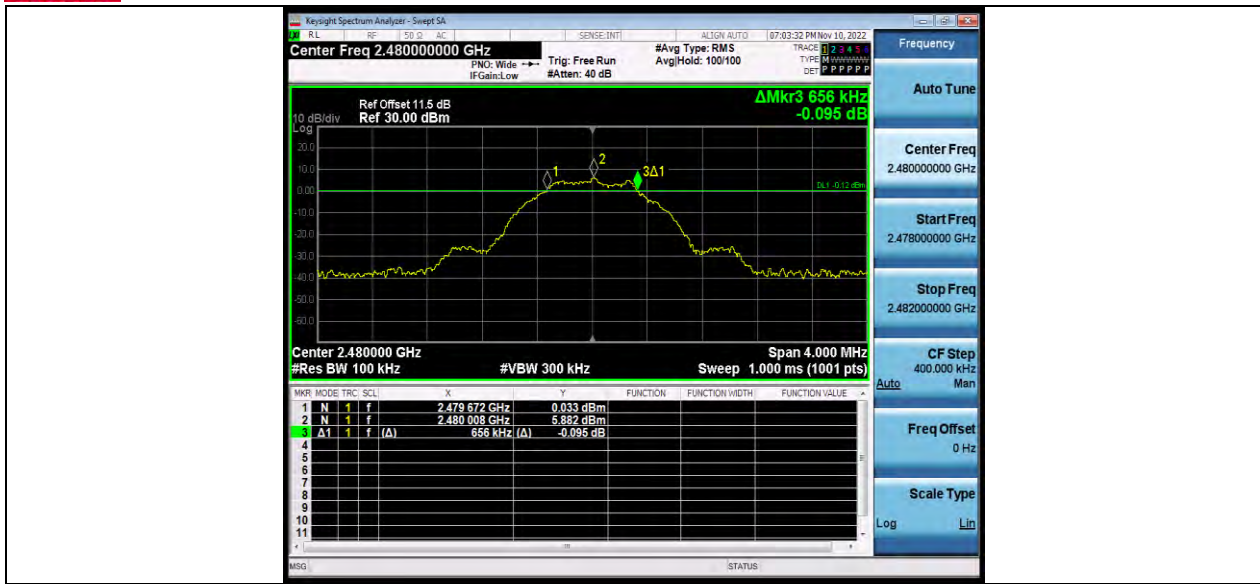


BLE_1M_Ant1_2480



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Test Report No.: W7L-P22110001RF02



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Test Report No.: W7L-P22110001RF02

OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0400	2401.4955	2402.5355	---	---
		2440	1.0386	2439.4930	2440.5316	---	---
		2480	1.0399	2479.4871	2480.5270	---	---



TEST GRAPHS





**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02





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	4.54	4.72	2.96	≤30	2.52	1.79	≤36	PASS	Default
		2440	6.14	6.18	4.15	≤30	3.98	2.50	≤36	PASS	Default
		2480	5.35	5.53	3.57	≤30	3.33	2.15	≤36	PASS	Default

Note: EIRP=Peak Power+Gain



MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.59	≤8.00	PASS
		2440	-8.25	≤8.00	PASS
		2480	-8.73	≤8.00	PASS



BUREAU VERITAS

Test Report No.: W7L-P22110001RF02

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

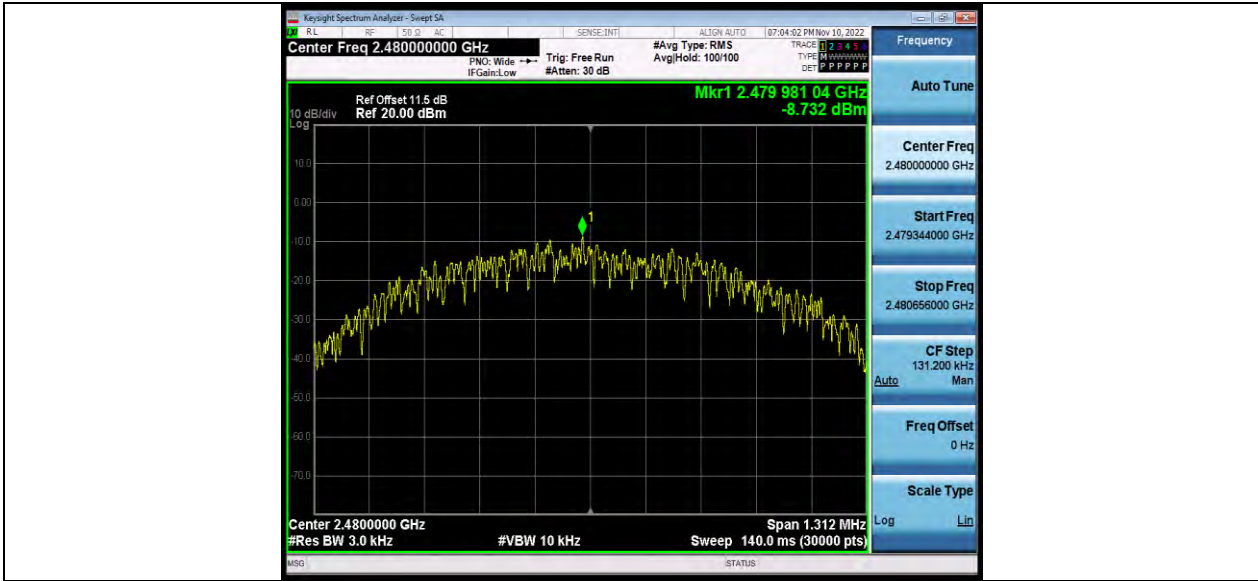


BLE_1M_Ant1_2480



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Test Report No.: W7L-P22110001RF02



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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	5.46	-44.27	≤-14.54	PASS
		High	2480	6.06	-44.08	≤-13.94	PASS

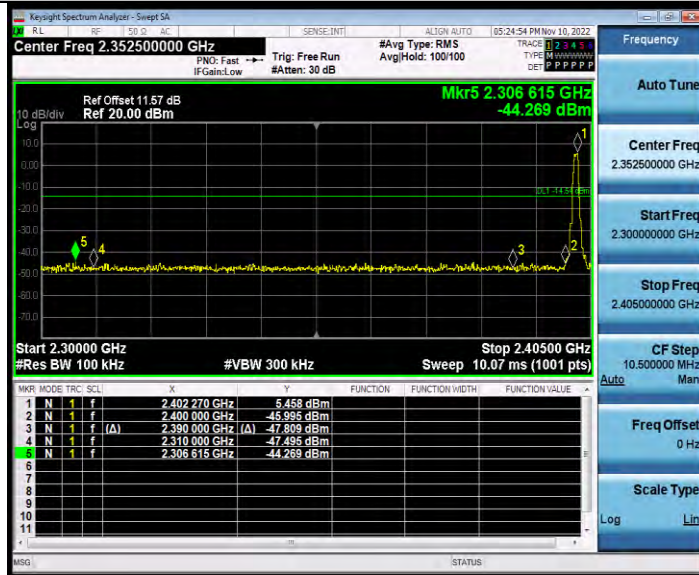


BUREAU VERITAS

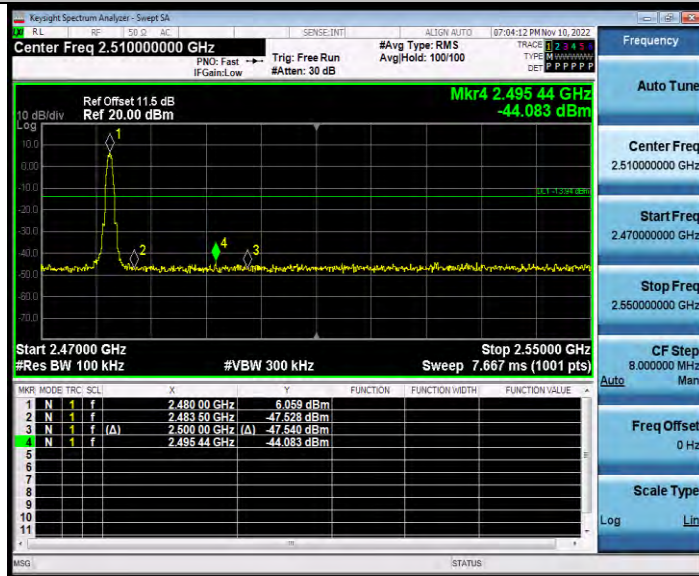
Test Report No.: W7L-P22110001RF02

TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-53.69	≤-15.4	PASS
			1000~26500	4.60	-34.31	≤-15.4	PASS
		2440	Reference	5.39	5.39	---	PASS
			30~1000	5.39	-53.76	≤-14.61	PASS
			1000~26500	5.39	-33.99	≤-14.61	PASS
		2480	Reference	4.85	4.85	---	PASS
			30~1000	4.85	-52.84	≤-15.15	PASS
			1000~26500	4.85	-34.07	≤-15.15	PASS



BUREAU VERITAS

Test Report No.: W7L-P22110001RF02

TEST GRAPHS

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



BLE_1M_Ant1_2440_0~Reference

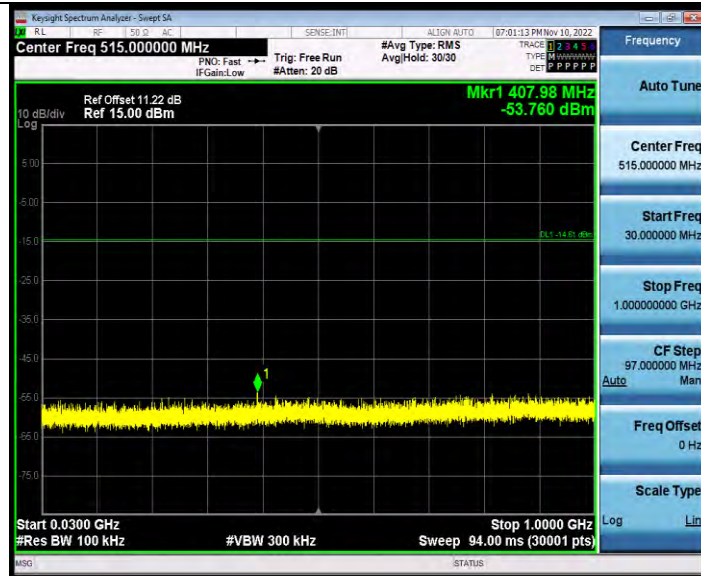


BLE_1M_Ant1_2440_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

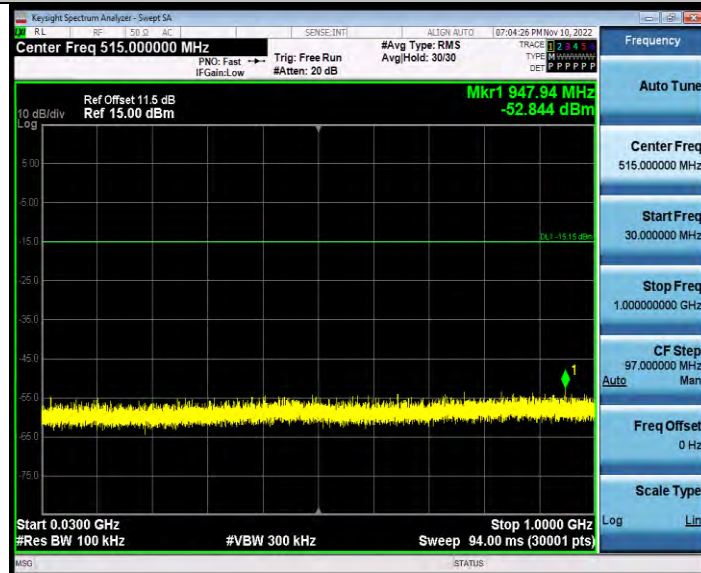


**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



BLE_1M_Ant1_2480_30~1000

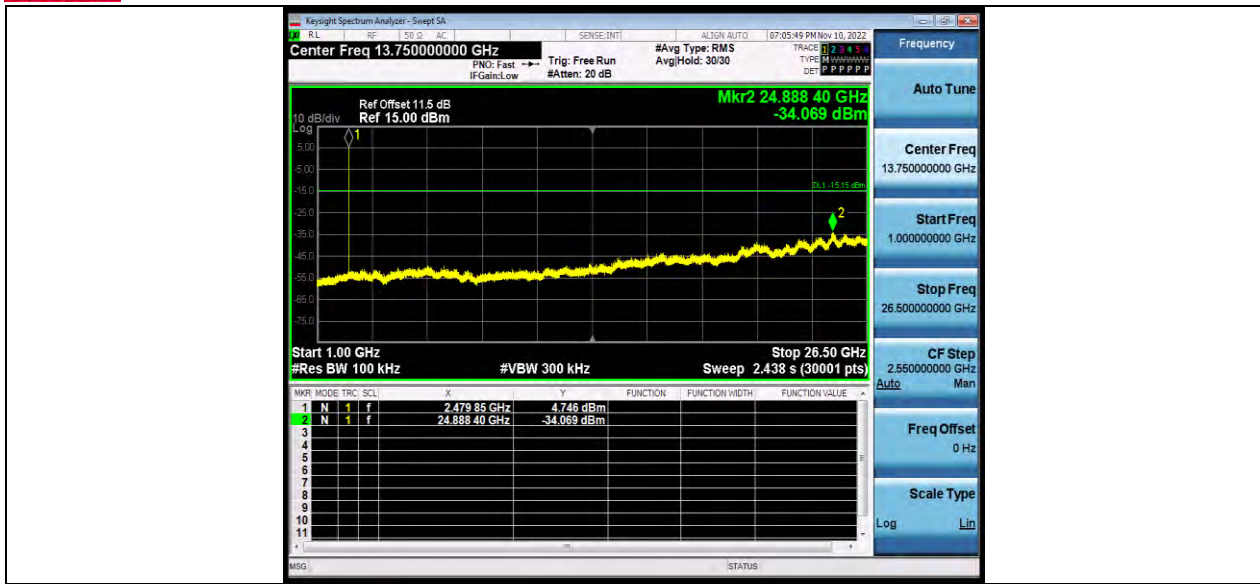


BLE_1M_Ant1_2480_1000~26500



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02





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	0.62	62.90	2.01
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08

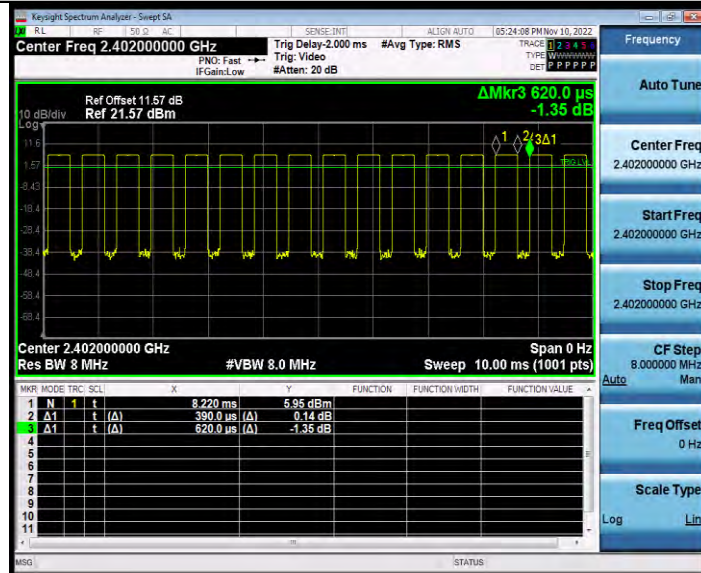


BUREAU VERITAS

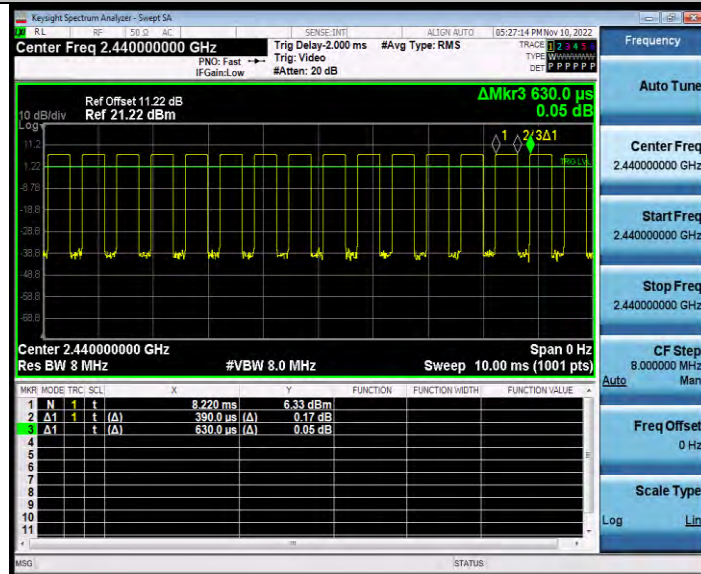
Test Report No.: W7L-P22110001RF02

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

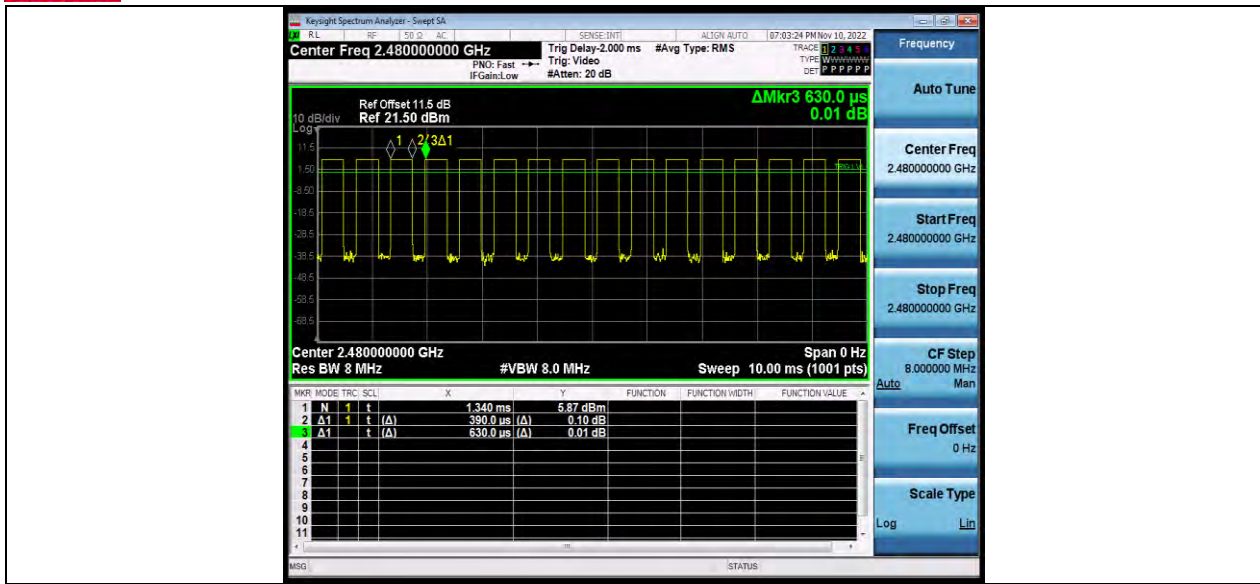


BLE_1M_Ant1_2480



**BUREAU
VERITAS**

Test Report No.: W7L-P22110001RF02



---END---