

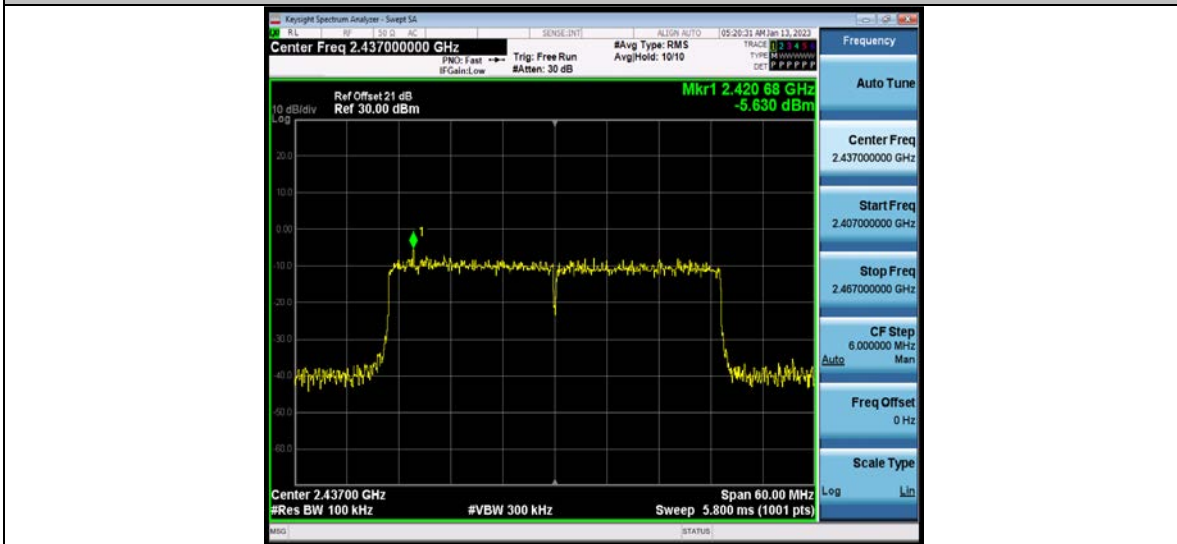


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant2_2437_484Tone_RU65_0-Reference



11AX40_RU_Ant2_2437_484Tone_RU65_30-1000

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

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



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant2_2437_484Tone_RU65_1000~26500



11AX40_RU_Ant1_2452_484Tone_RU65_0-Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant1_2452_484Tone_RU65_30~1000



11AX40_RU_Ant1_2452_484Tone_RU65_1000~26500



BUREAU
VERITAS

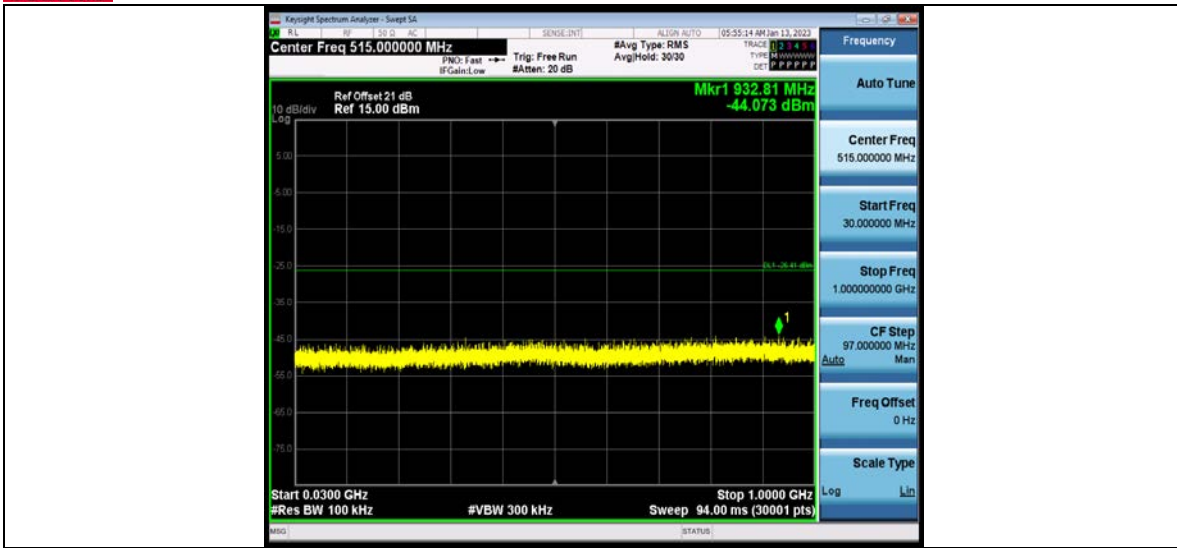
Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant2_2452_484Tone_RU65_0-Reference



11AX40_RU_Ant2_2452_484Tone_RU65_30-1000



11AX40_RU_Ant2_2452_484Tone_RU65_1000~26500





Test Report No.: W7L-P23100014RF02

DUTY CYCLE

TEST RESULT

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20_RU	Ant1	2412	242Tone	RU61	5.44	5.46	99.63
	Ant2	2412	242Tone	RU61	5.44	5.46	99.63
	Ant1	2437	242Tone	RU61	5.44	5.46	99.63
	Ant2	2437	242Tone	RU61	5.44	5.46	99.63
	Ant1	2462	242Tone	RU61	5.44	5.46	99.63
	Ant2	2462	242Tone	RU61	5.44	5.46	99.63
11AX40_RU	Ant1	2422	484Tone	RU65	5.44	5.46	99.63
	Ant2	2422	484Tone	RU65	5.44	5.46	99.63
	Ant1	2437	484Tone	RU65	5.44	5.46	99.63
	Ant2	2437	484Tone	RU65	5.44	5.46	99.63
	Ant1	2452	484Tone	RU65	5.44	5.46	99.63
	Ant2	2452	484Tone	RU65	5.44	5.46	99.63



TEST GRAPHS

11AX20_RU_Ant1_2412_242Tone_RU61



11AX20_RU_Ant2_2412_242Tone_RU61

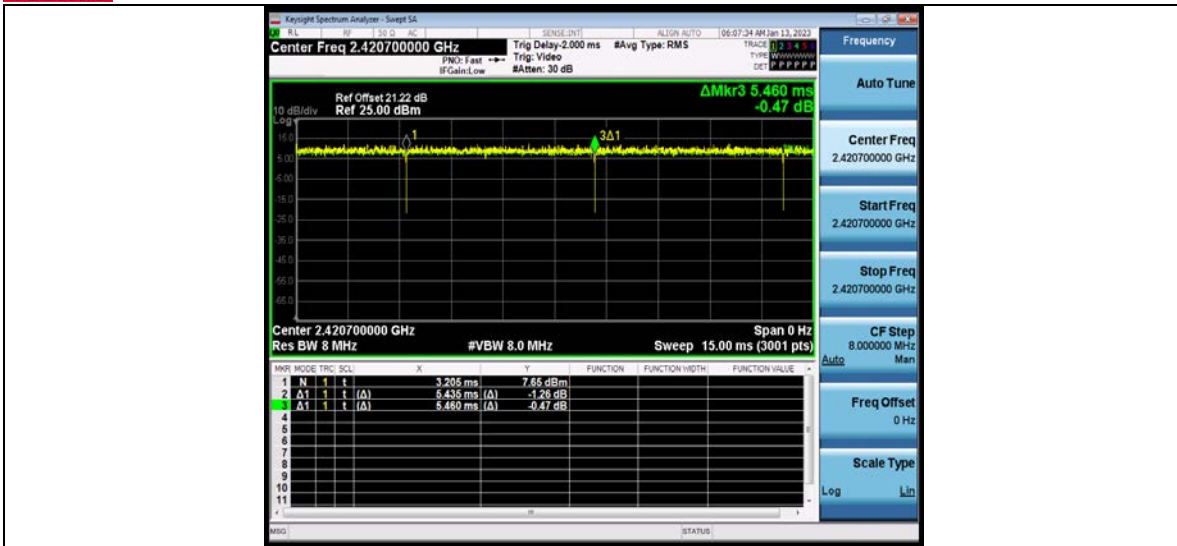


11AX20_RU_Ant1_2437_242Tone_RU61

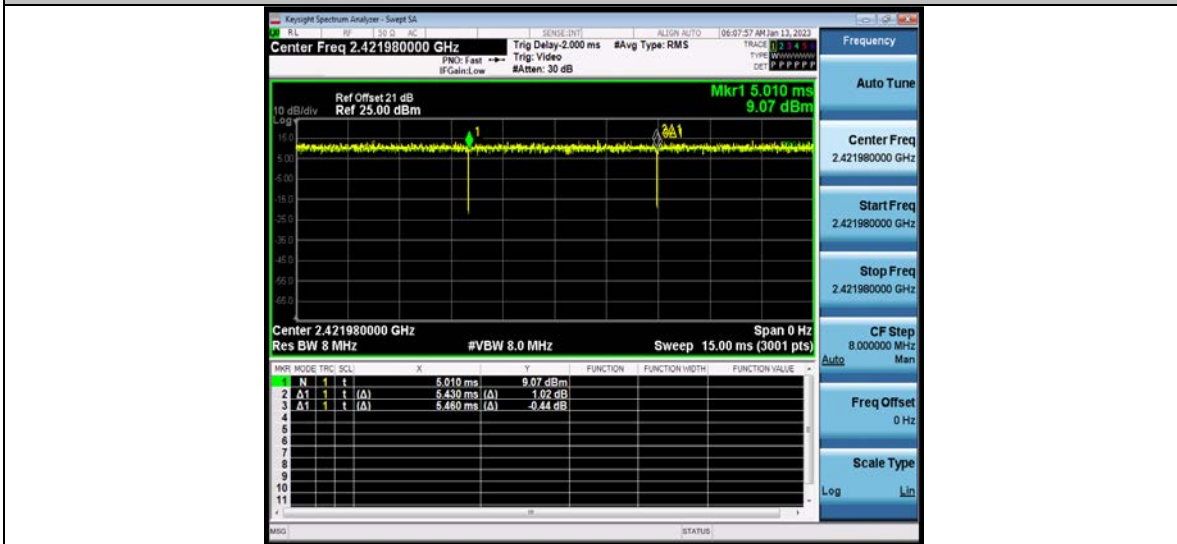


BUREAU
VERITAS

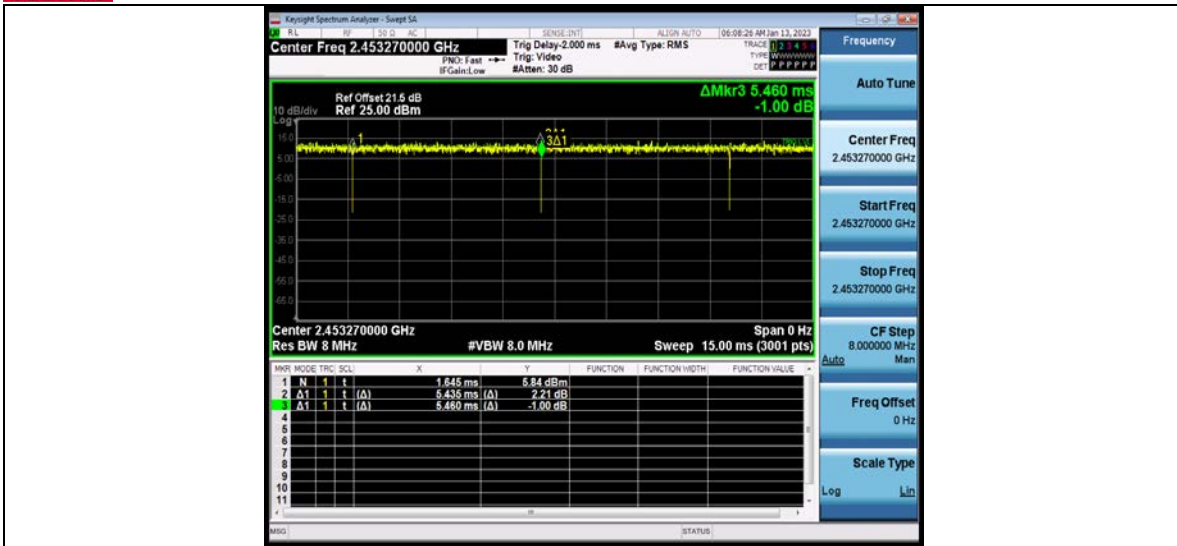
Test Report No.: W7L-P23100014RF02



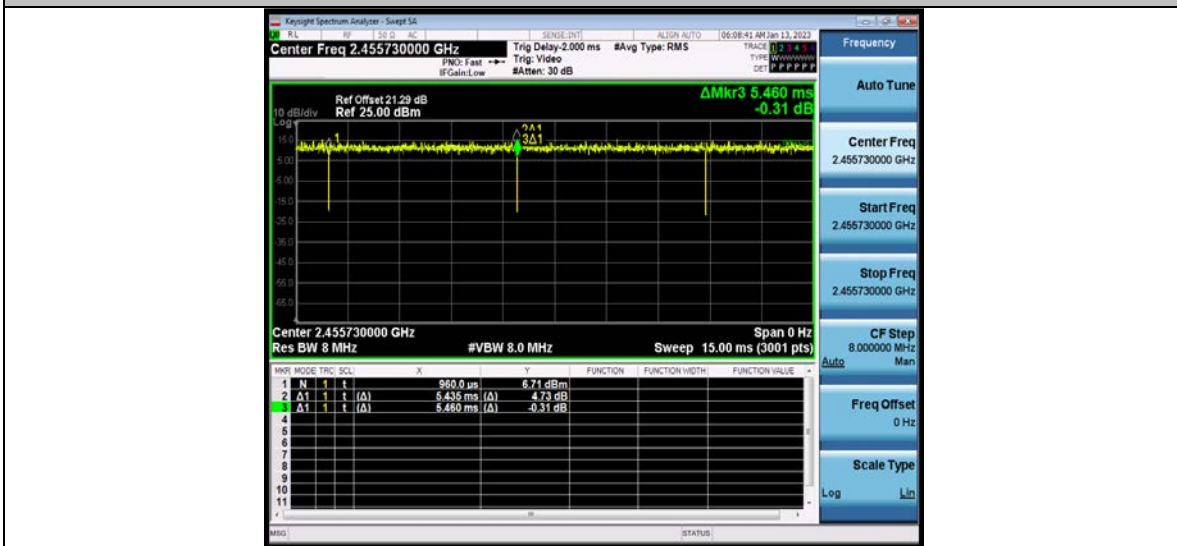
11AX20_RU_Ant2_2437_242Tone_RU61



11AX20_RU_Ant1_2462_242Tone_RU61



11AX20_RU_Ant2_2462_242Tone_RU61

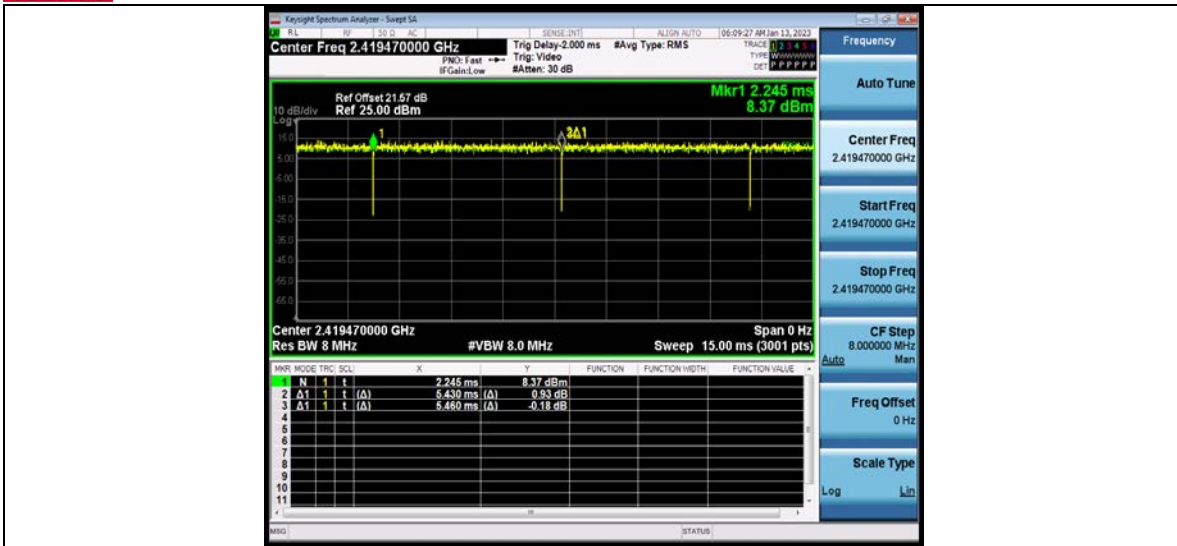


11AX40_RU_Ant1_2422_484Tone_RU65

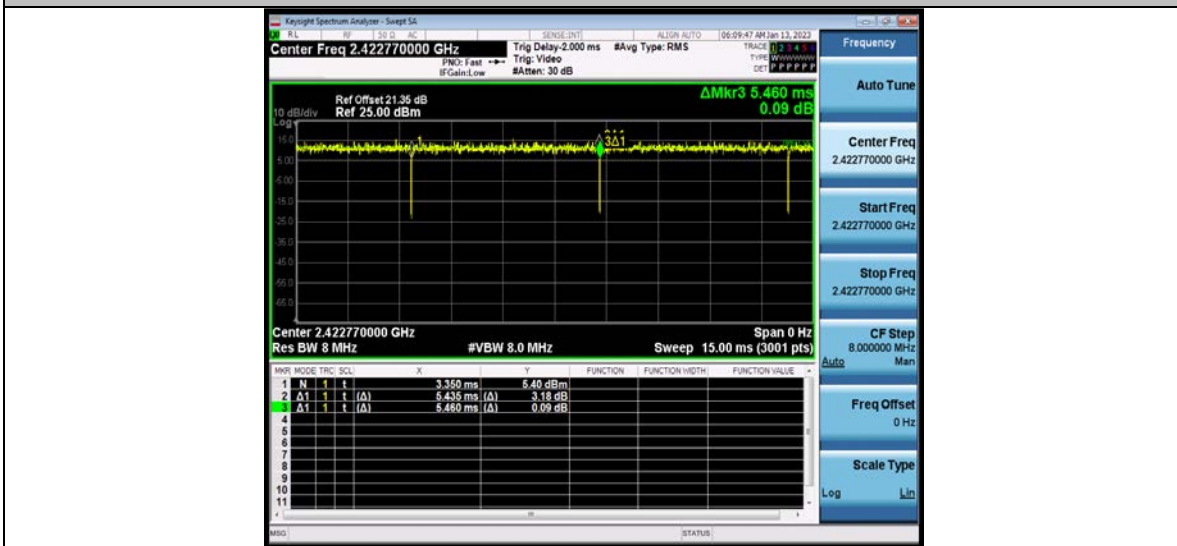


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant2_2422_484Tone_RU65



11AX40_RU_Ant1_2437_484Tone_RU65



11AX40_RU_Ant2_2437_484Tone_RU65

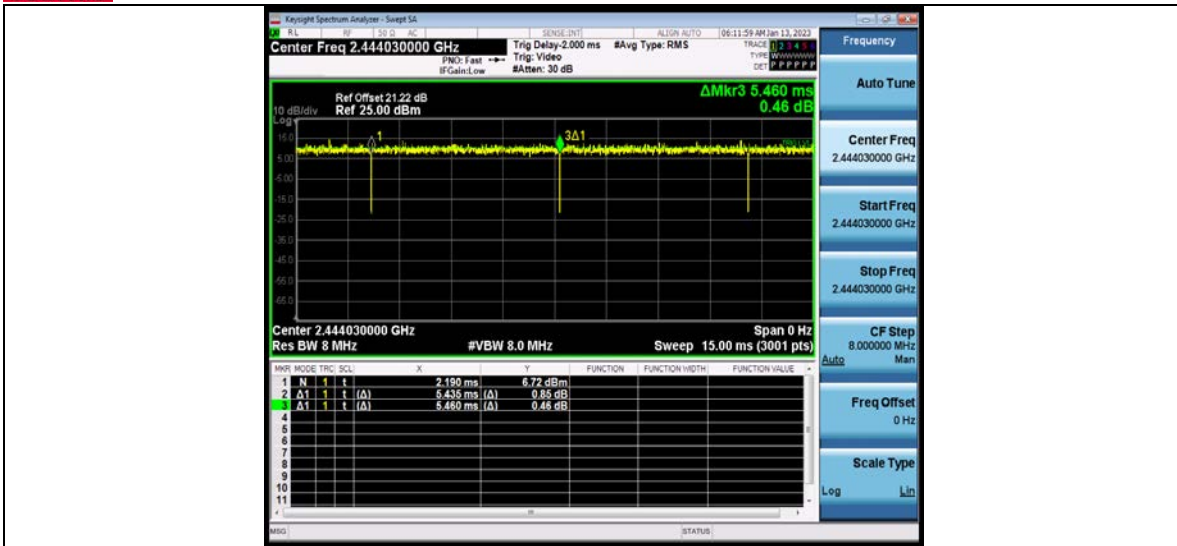


11AX40_RU_Ant1_2452_484Tone_RU65

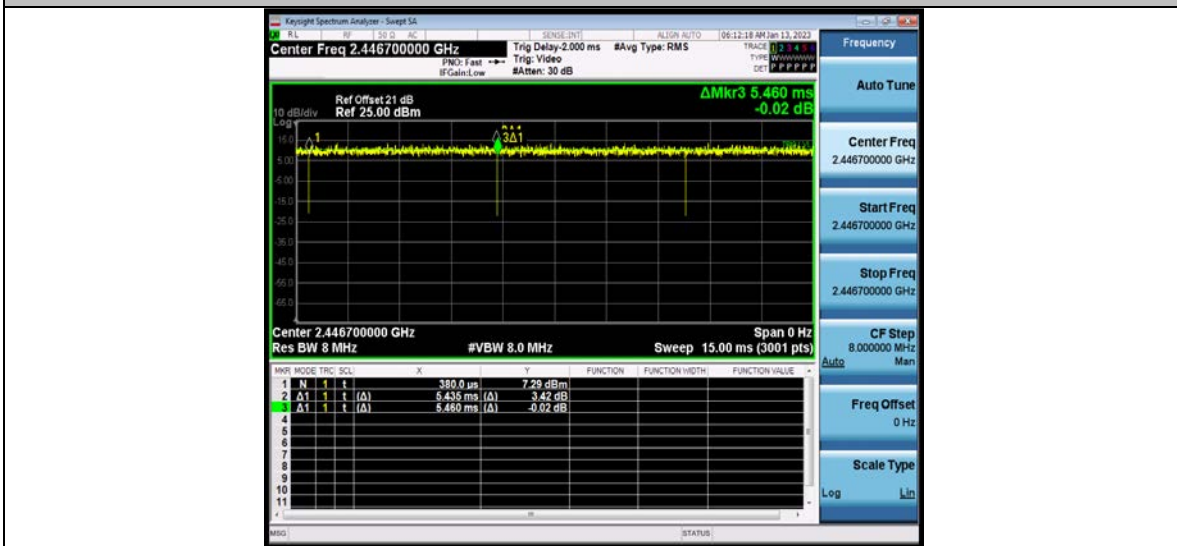


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



11AX40_RU_Ant2_2452_484Tone_RU65





Test Report No.: W7L-P23100014RF02

7 Appendix 2 BLE

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	0.660	2401.668	2402.328	0.5	PASS
		2440	0.636	2439.680	2440.316	0.5	PASS
		2480	0.652	2479.672	2480.324	0.5	PASS
BLE_1M	Ant1	2402	0.648	2401.668	2402.316	0.5	PASS
		2440	0.656	2439.676	2440.332	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.432	2402.580	0.5	PASS
		2440	1.108	2439.480	2440.588	0.5	PASS
		2480	1.160	2479.416	2480.576	0.5	PASS
BLE_500K	Ant1	2402	0.632	2401.708	2402.340	0.5	PASS
		2440	0.668	2439.676	2440.344	0.5	PASS
		2480	0.652	2479.676	2480.328	0.5	PASS



TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2480



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

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	1.0694	2401.4647	2402.5341	---	---
		2440	1.0744	2439.4638	2440.5382	---	---
		2480	1.0651	2479.4634	2480.5285	---	---
BLE_1M	Ant1	2402	1.0262	2401.4916	2402.5178	---	---
		2440	1.0309	2439.4889	2440.5198	---	---
		2480	1.0275	2479.4899	2480.5174	---	---
BLE_2M	Ant1	2402	2.0318	2401.0048	2403.0366	---	---
		2440	2.0457	2438.9954	2441.0411	---	---
		2480	2.0411	2478.9961	2481.0372	---	---
BLE_500K	Ant1	2402	1.0259	2401.4889	2402.5148	---	---
		2440	1.0312	2439.4863	2440.5175	---	---
		2480	1.0279	2479.4858	2480.5137	---	---



TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2480





Test Report No.: W7L-P23100014RF02

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	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	2402	8.71	8.82	7.62	≤30	8.92	7.80	≤36	PASS	Default
	2440	9.12	9.39	8.69	≤30	9.49	8.89	≤36	PASS	Default
	2480	8.38	8.72	7.45	≤30	8.82	7.62	≤36	PASS	Default
BLE_2M	2402	8.90	8.95	7.85	≤30	9.05	8.04	≤36	PASS	Default
	2440	9.28	9.50	8.91	≤30	9.60	9.12	≤36	PASS	Default
	2480	8.61	8.80	7.59	≤30	8.90	7.76	≤36	PASS	Default
BLE_125k	2402	8.49	8.81	7.60	≤30	8.91	7.78	≤36	PASS	Default
	2440	9.35	9.37	8.65	≤30	9.47	8.85	≤36	PASS	Default
	2480	8.63	8.65	7.33	≤30	8.75	7.50	≤36	PASS	Default
BLE_500K	2402	8.49	8.82	7.62	≤30	8.92	7.80	≤36	PASS	Default
	2440	9.05	9.40	8.71	≤30	9.50	8.91	≤36	PASS	Default
	2480	8.00	8.72	7.45	≤30	8.82	7.62	≤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_125K	Ant1	2402	3.44	≤8.00	PASS
		2440	2.87	≤8.00	PASS
		2480	2.92	≤8.00	PASS
BLE_1M	Ant1	2402	-4.33	≤8.00	PASS
		2440	-5.12	≤8.00	PASS
		2480	-5.16	≤8.00	PASS
BLE_2M	Ant1	2402	-7.24	≤8.00	PASS
		2440	-8.53	≤8.00	PASS
		2480	-8.49	≤8.00	PASS
BLE_500K	Ant1	2402	3.30	≤8.00	PASS
		2440	2.81	≤8.00	PASS
		2480	2.96	≤8.00	PASS



TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440

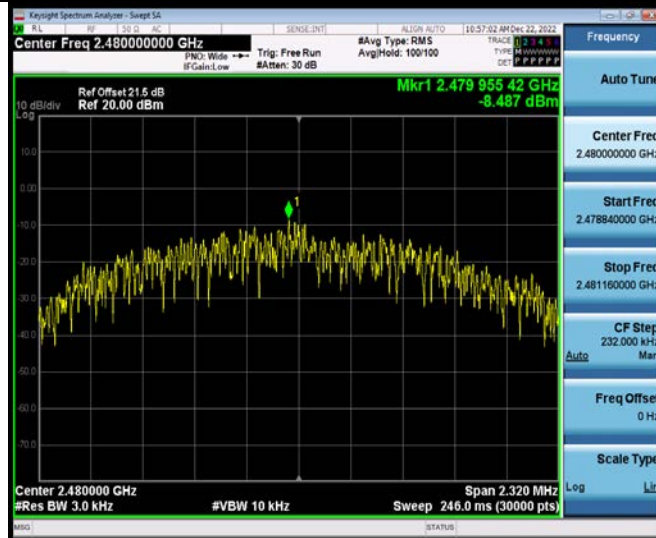


BLE_2M_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2480



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

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



Test Report No.: W7L-P23100014RF02

BAND EDGE MEASUREMENTS

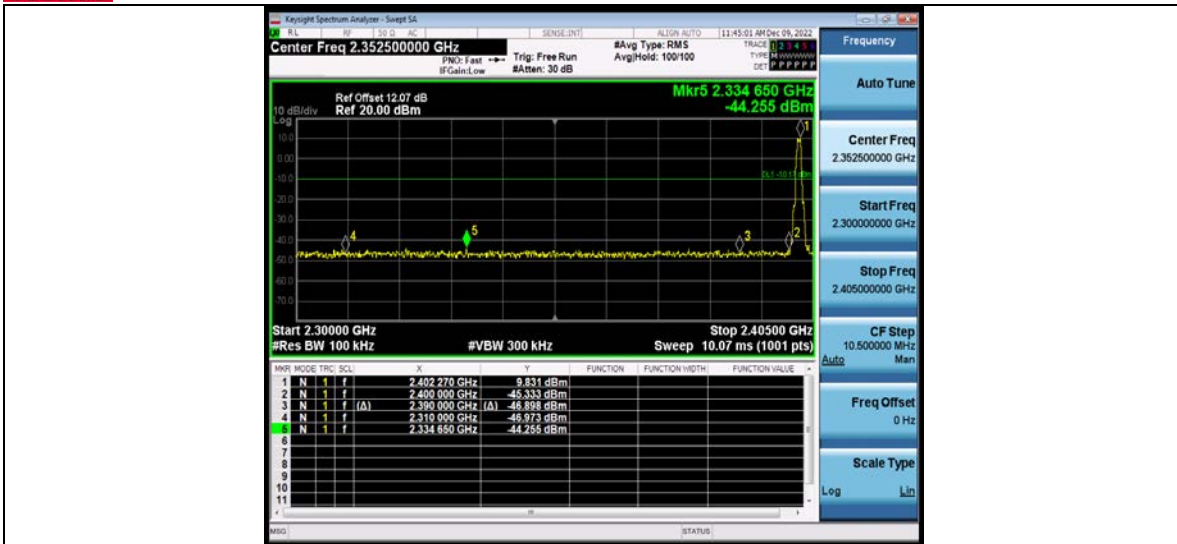
TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	Low	2402	6.88	-34.76	≤ -13.12	PASS
		High	2480	6.02	-34.59	≤ -13.98	PASS
BLE_1M	Ant1	Low	2402	9.83	-44.26	≤ -10.17	PASS
		High	2480	8.92	-43.61	≤ -11.08	PASS
BLE_2M	Ant1	Low	2402	8.83	-29.87	≤ -11.17	PASS
		High	2480	8.59	-34.39	≤ -11.41	PASS
BLE_500K	Ant1	Low	2402	8.57	-35.26	≤ -11.43	PASS
		High	2480	8.71	-34.8	≤ -11.29	PASS

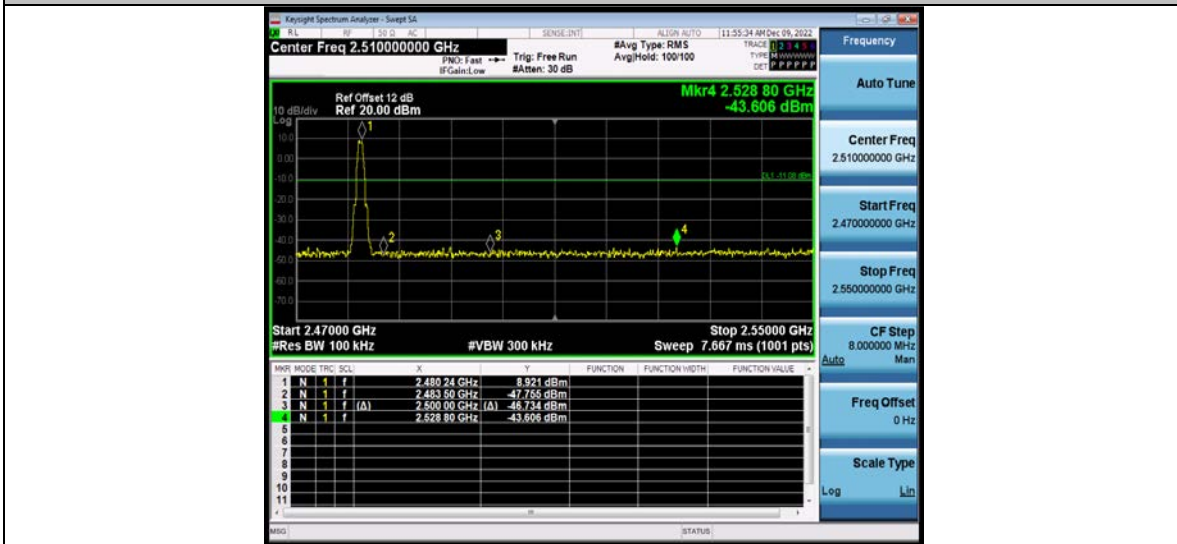


TEST GRAPHS





BLE_1M_Ant1_High_2480

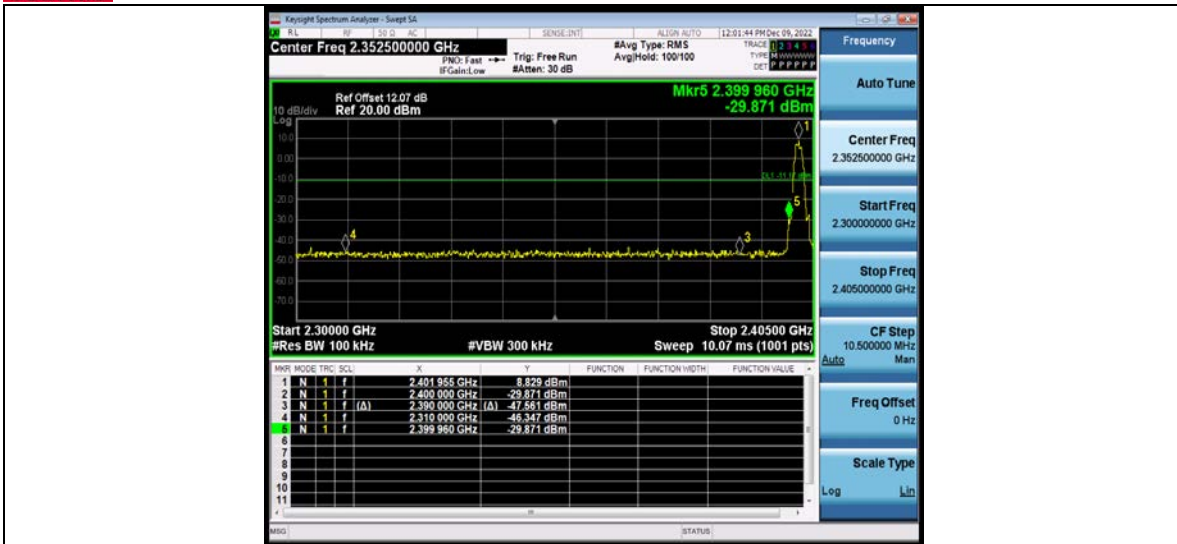


BLE_2M_Ant1_Low_2402

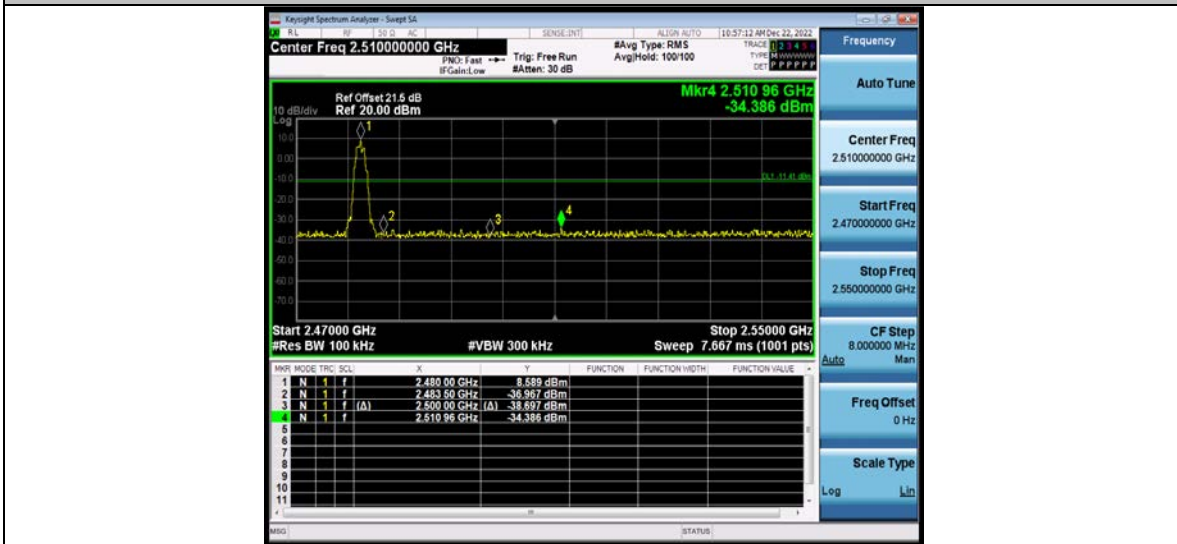


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_High_2480

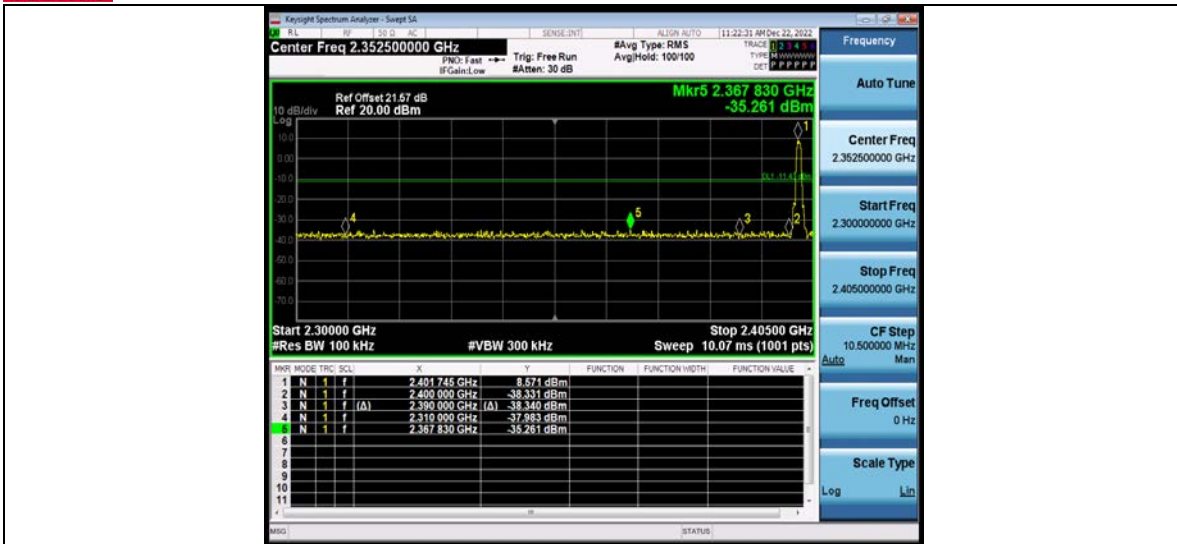


BLE_500K_Ant1_Low_2402

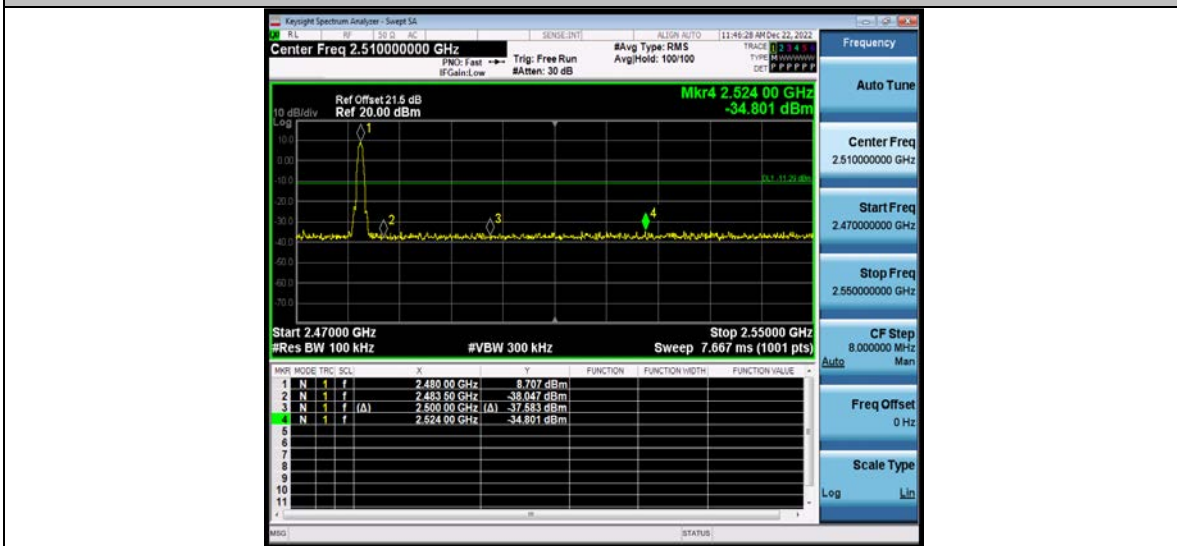


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_High_2480





CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	Reference	6.18	6.18	---	PASS
			30~1000	6.18	-43.36	≤-13.82	PASS
			1000~26500	6.18	-23.66	≤-13.82	PASS
		2440	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-43.77	≤-13.26	PASS
			1000~26500	6.74	-24.72	≤-13.26	PASS
		2480	Reference	6.00	6.00	---	PASS
			30~1000	6.00	-43.72	≤-14	PASS
			1000~26500	6.00	-24.46	≤-14	PASS
BLE_1M	Ant1	2402	Reference	9.02	9.02	---	PASS
			30~1000	9.02	-53.59	≤-10.98	PASS
			1000~26500	9.02	-33.42	≤-10.98	PASS
		2440	Reference	7.58	7.58	---	PASS
			30~1000	7.58	-53.37	≤-12.42	PASS
			1000~26500	7.58	-33.88	≤-12.42	PASS
		2480	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-52.44	≤-12.14	PASS
			1000~26500	7.86	-34.09	≤-12.14	PASS
BLE_2M	Ant1	2402	Reference	9.01	9.01	---	PASS
			30~1000	9.01	-52.76	≤-10.99	PASS
			1000~26500	9.01	-33.56	≤-10.99	PASS
		2440	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-43.46	≤-14.68	PASS
			1000~26500	5.32	-24.65	≤-14.68	PASS
		2480	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-43.4	≤-14.84	PASS
			1000~26500	5.16	-24.78	≤-14.84	PASS
BLE_500K	Ant1	2402	Reference	8.95	8.95	---	PASS
			30~1000	8.95	-42.99	≤-11.05	PASS

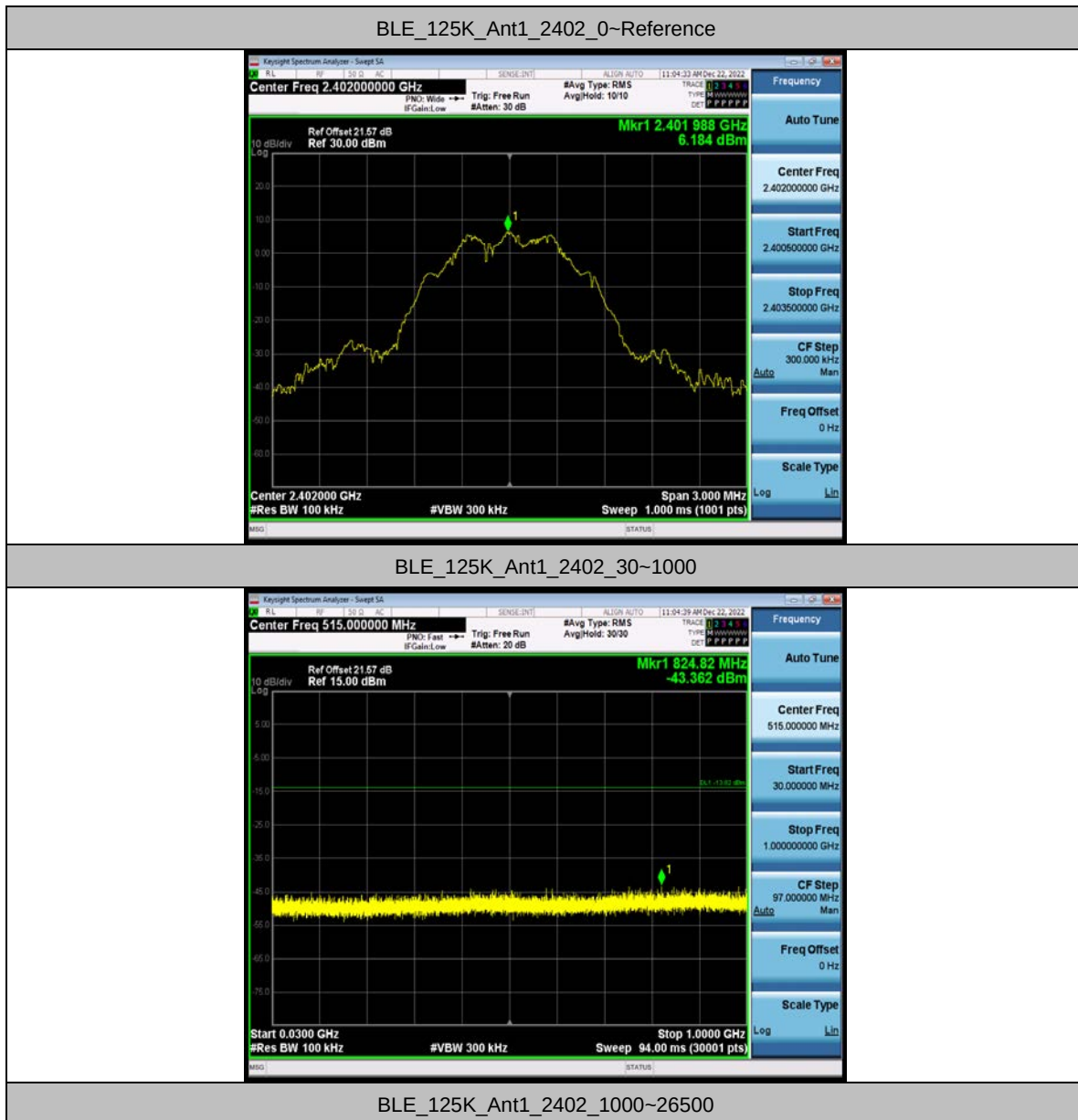


Test Report No.: W7L-P23100014RF02

			1000~26500	8.95	-24.37	≤ -11.05	PASS
		2440	Reference	7.73	7.73	---	PASS
			30~1000	7.73	-43.93	≤ -12.27	PASS
			1000~26500	7.73	-24.32	≤ -12.27	PASS
		2480	Reference	8.63	8.63	---	PASS
			30~1000	8.63	-43.62	≤ -11.37	PASS
			1000~26500	8.63	-24.26	≤ -11.37	PASS



TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_125K_Ant1_2440_0~Reference



BLE_125K_Ant1_2440_30~1000



BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_125K_Ant1_2480_30~1000



BLE_125K_Ant1_2480_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402_0~Reference

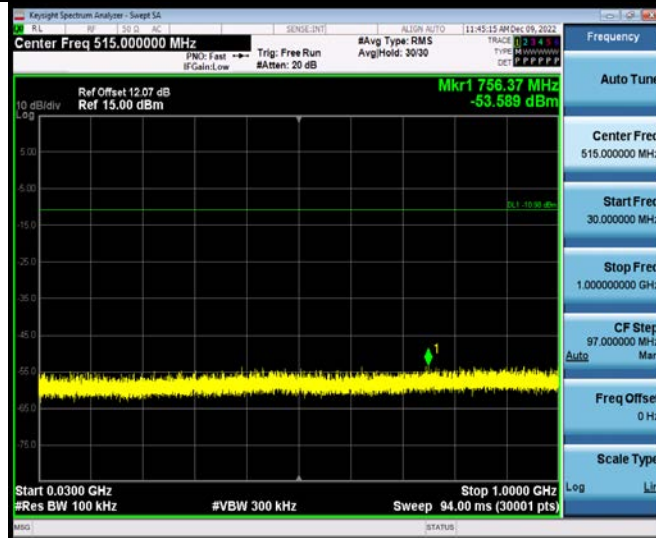


BLE_1M_Ant1_2402_30~1000



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440_0-Reference

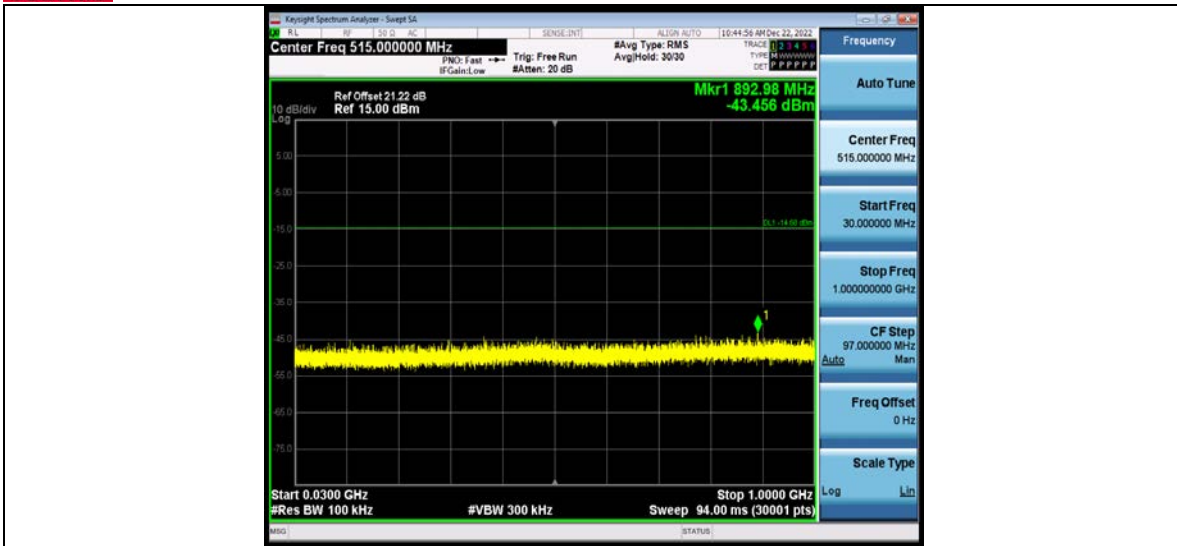


BLE_2M_Ant1_2440_30~1000



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2402_0~Reference



BLE_500K_Ant1_2402_30~1000



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2402_1000~26500



BLE_500K_Ant1_2440_0~Reference



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2440_30~1000



BLE_500K_Ant1_2440_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2480_0~Reference

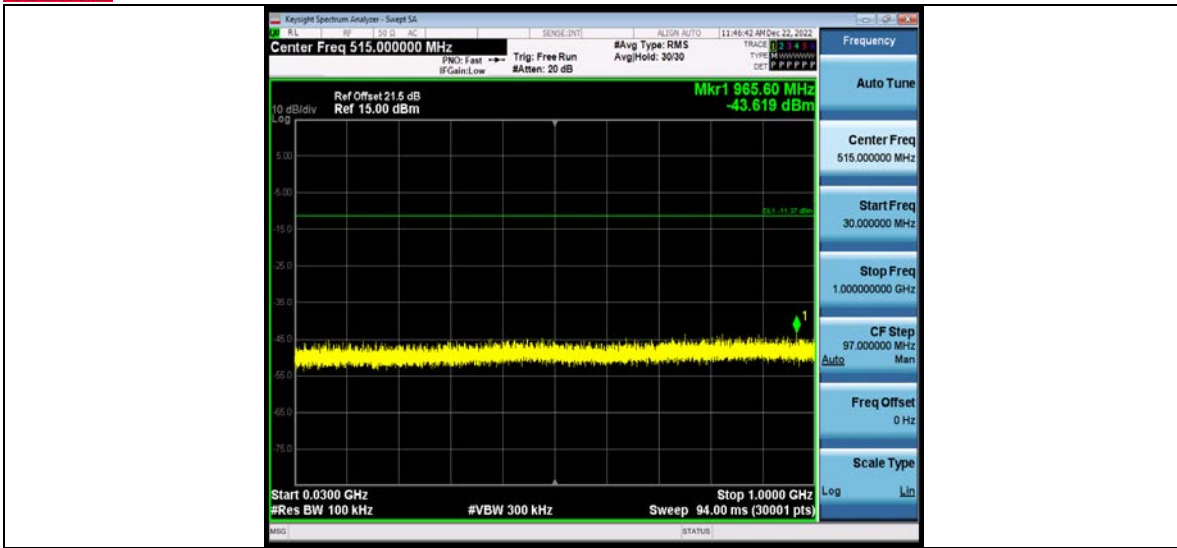


BLE_500K_Ant1_2480_30~1000



BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_500K_Ant1_2480_1000~26500



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

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

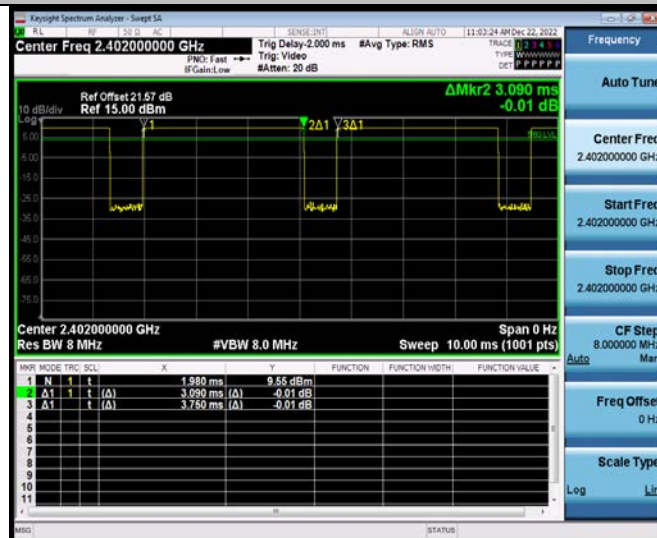
**DUTY CYCLE****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_125K	Ant1	2402	3.10	3.75	82.67	0.83
		2440	3.10	3.75	82.67	0.83
		2480	3.11	3.75	82.93	0.81
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77
BLE_500K	Ant1	2402	1.07	1.87	57.22	2.42
		2440	1.08	1.88	57.45	2.41
		2480	1.07	1.87	57.22	2.42

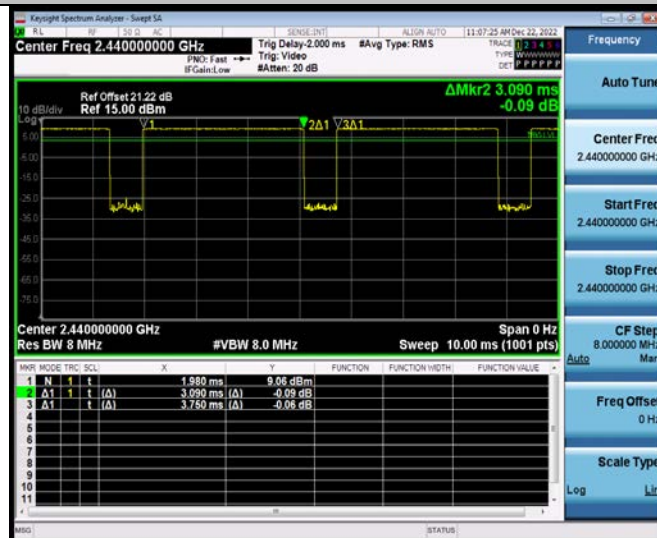


TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

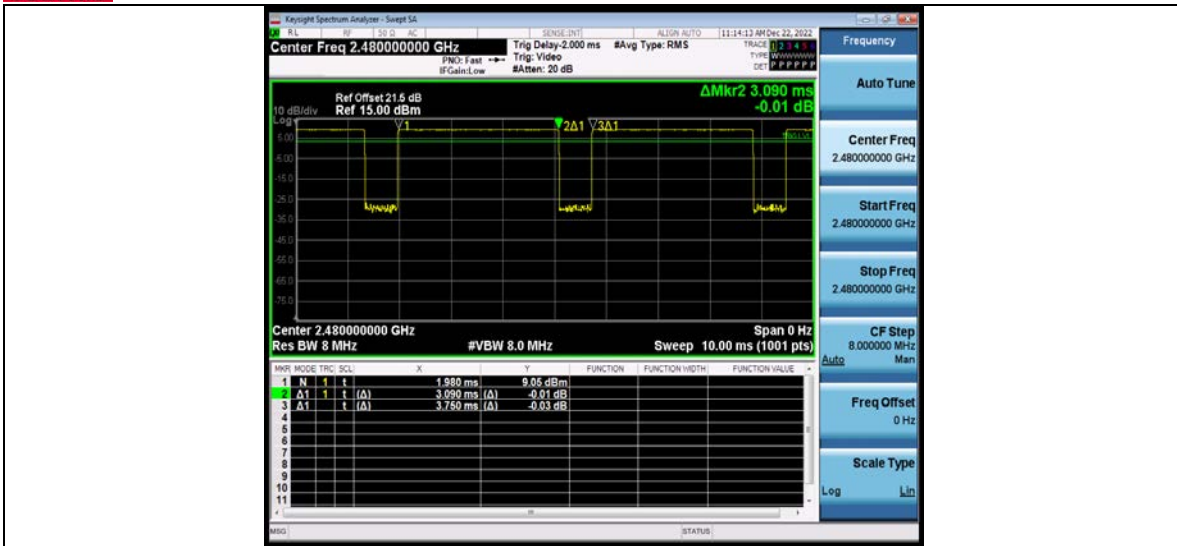


BLE_125K_Ant1_2480

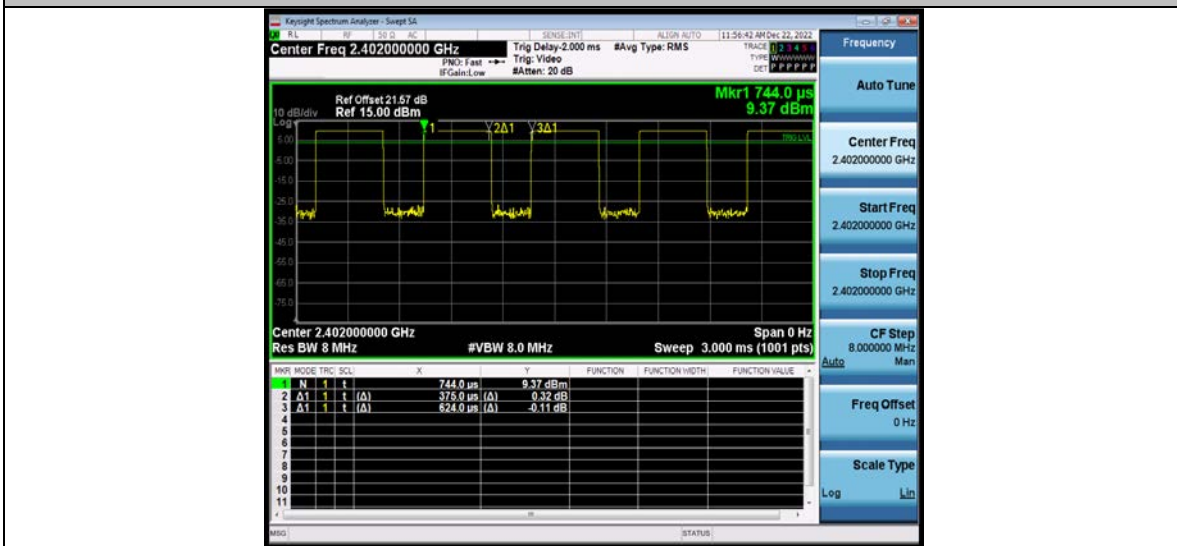


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2402

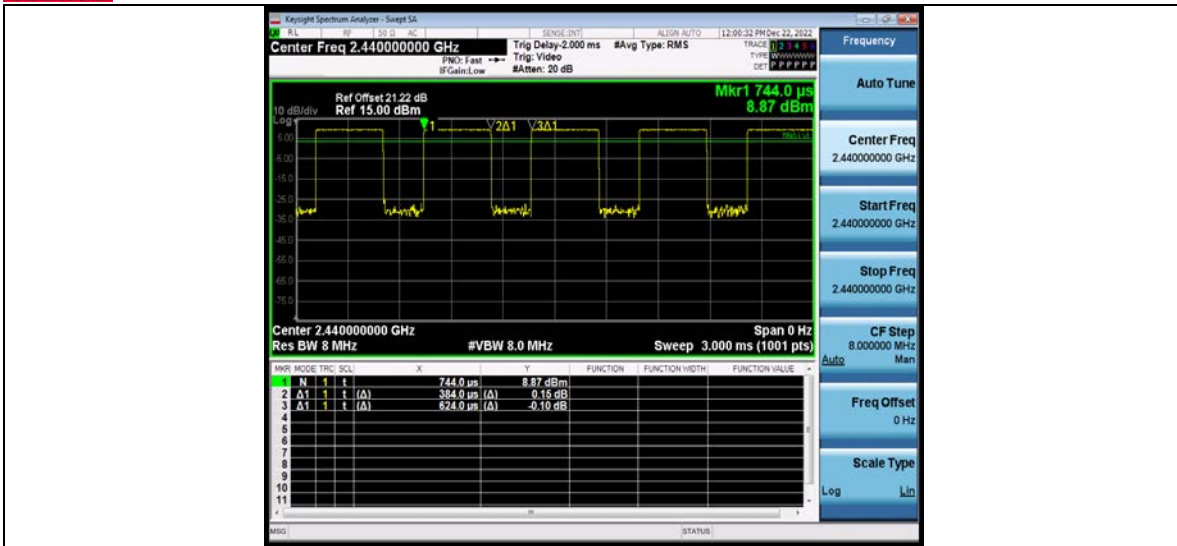


BLE_1M_Ant1_2440

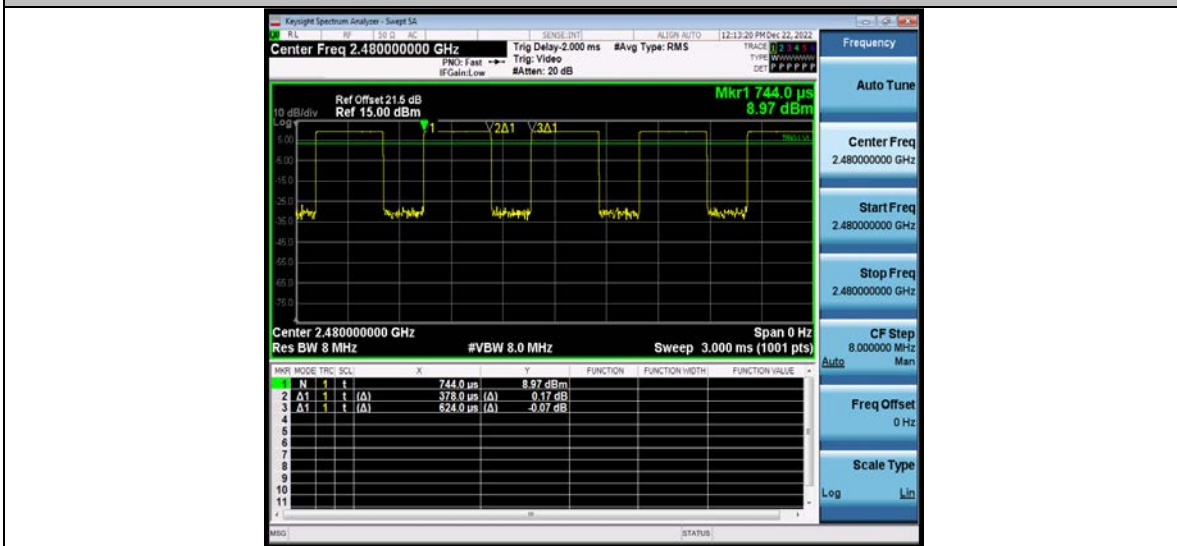


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_1M_Ant1_2480

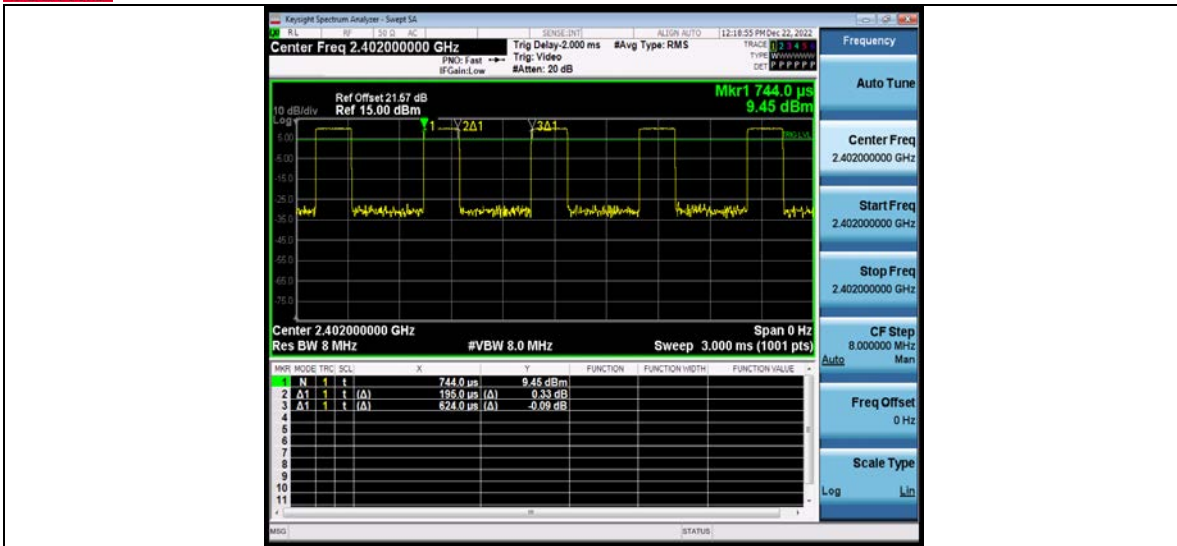


BLE_2M_Ant1_2402

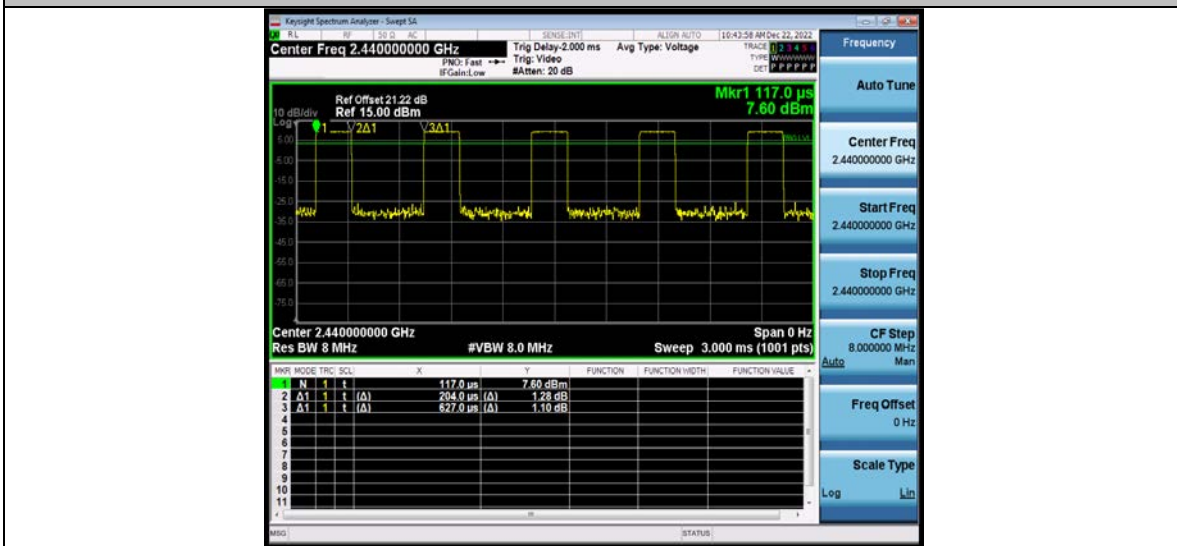


BUREAU
VERITAS

Test Report No.: W7L-P23100014RF02



BLE_2M_Ant1_2440

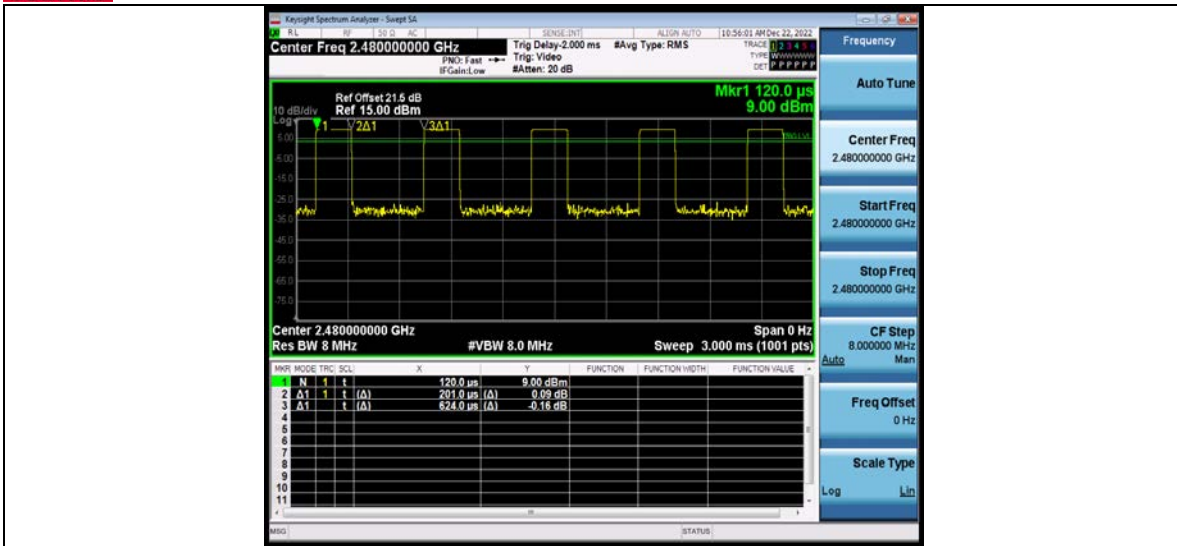


BLE_2M_Ant1_2480

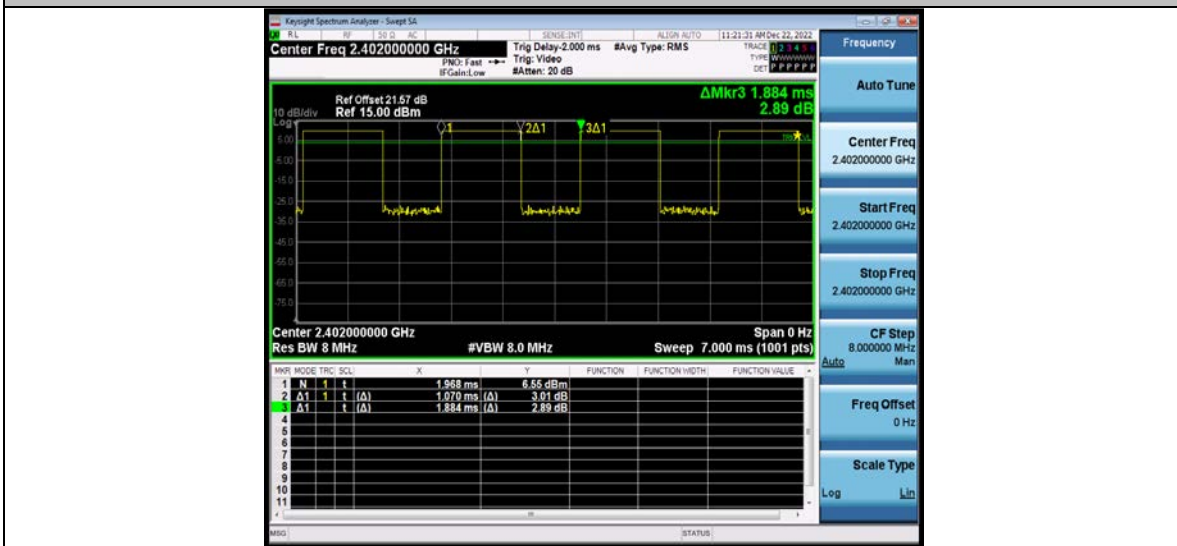


BUREAU
VERITAS

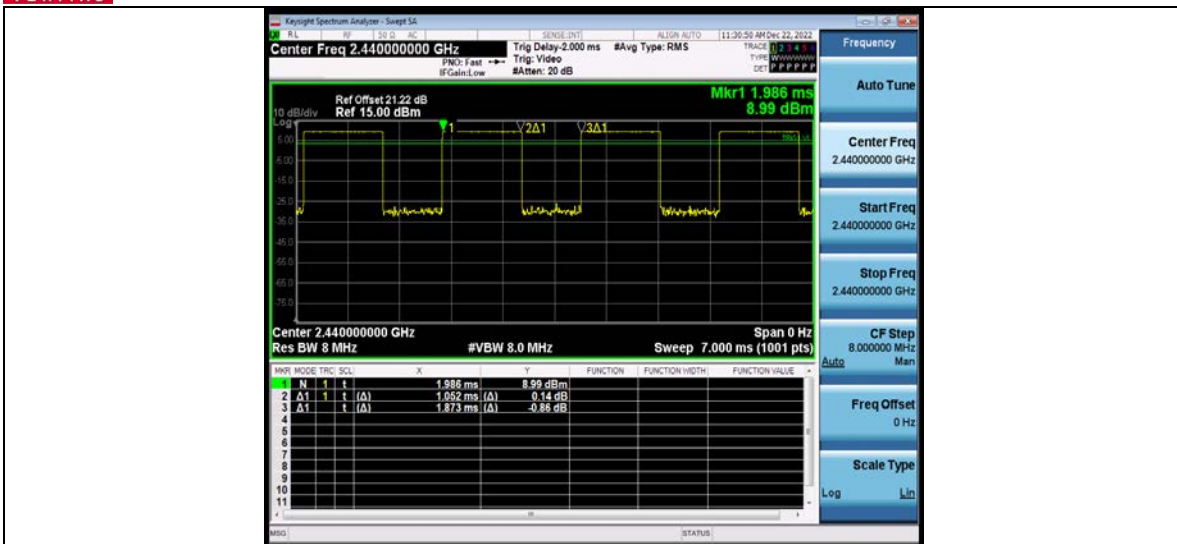
Test Report No.: W7L-P23100014RF02



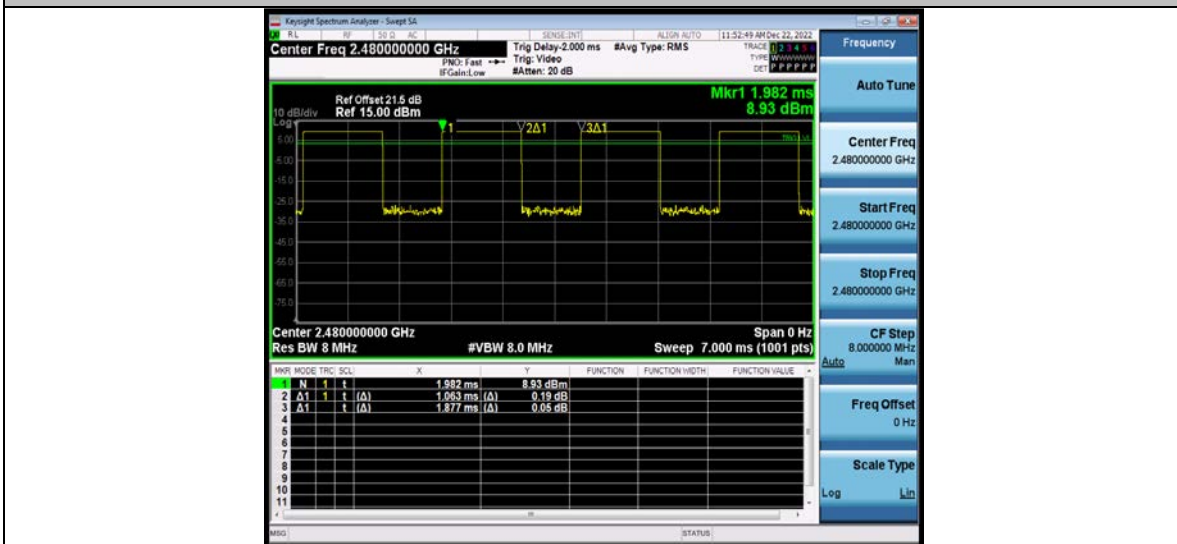
BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BLE_500K_Ant1_2480



---END---