Project No.:	**2401W88467E-RF**
EUT Number:	**2PC5-1**
Operating Mode:	**Transmitting**
Teststandard	**FCC Part 15.247/RSS-247**
Test Conditions:	Temperature: 25-27 °C Relative Humidity: 55-58 % ATM Pressure: 101 kPa
Test Engineer:	Navilite.Cai Tom Tan
Test Date:	**2024-08-19~2024-12-26**

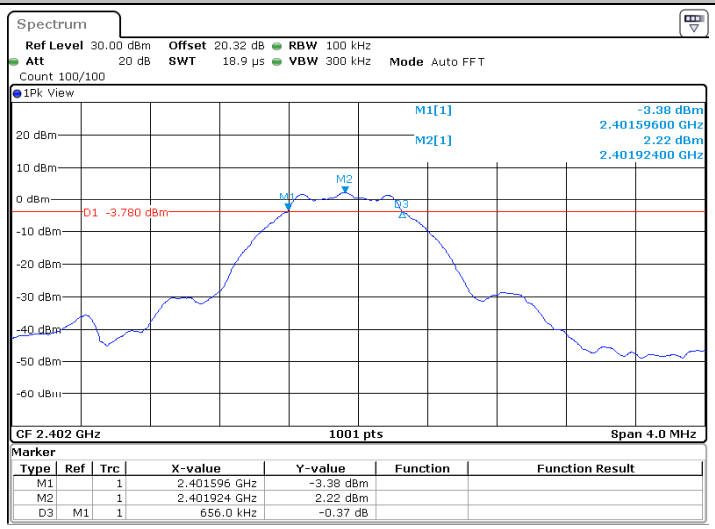
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.60	2402.25	0.5	PASS
		2440	0.66	2439.59	2440.25	0.5	PASS
		2480	0.66	2479.59	2480.24	0.5	PASS
BLE_2M	Ant1	2402	1.14	2401.34	2402.49	0.5	PASS
		2440	1.14	2439.34	2440.48	0.5	PASS
		2480	1.15	2479.34	2480.48	0.5	PASS

Test Graphs

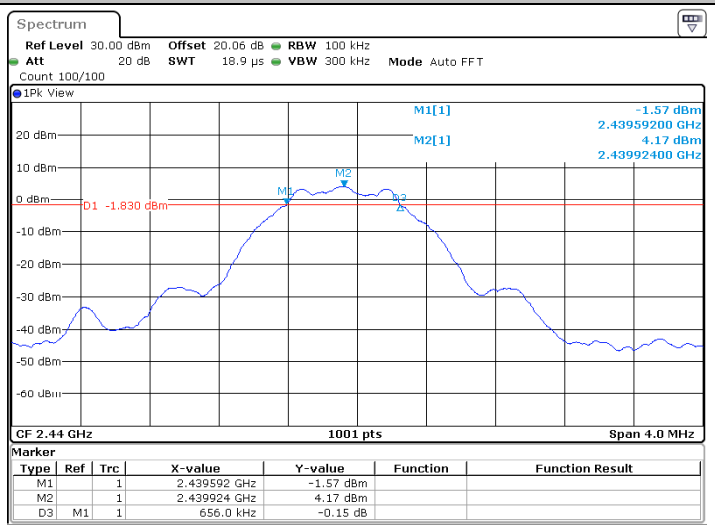
BLE_1M_Ant1_2402



ProjectNo.:2401W88467E-RFTester:Tom.Tan

Date: 26.DEC.2024 18:07:28

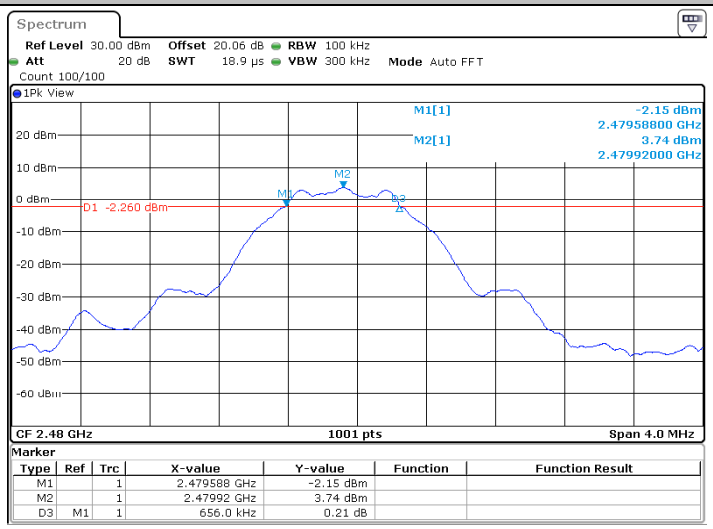
BLE_1M_Ant1_2440



ProjectNo.:2401W88467E-RF Tester:Navilite.Cai

Date: 19.AUG.2024 09:57:04

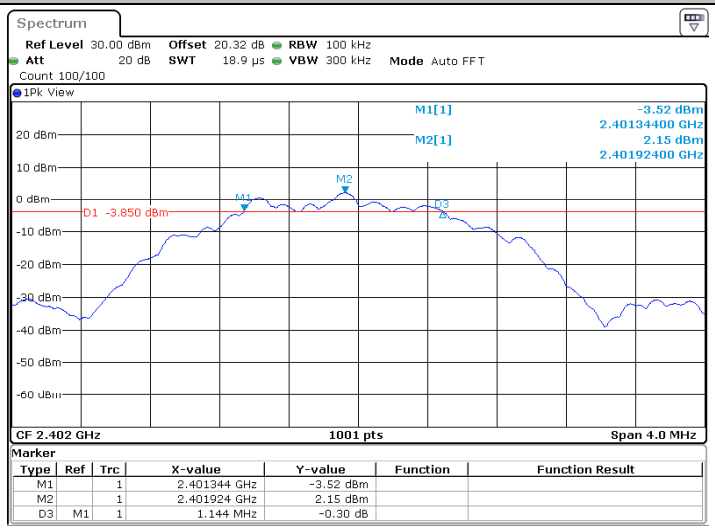
BLE_1M_Ant1_2480



ProjectNo.:2401W88467E-RF Tester:Navilite.Cai

Date: 19.AUG.2024 10:01:36

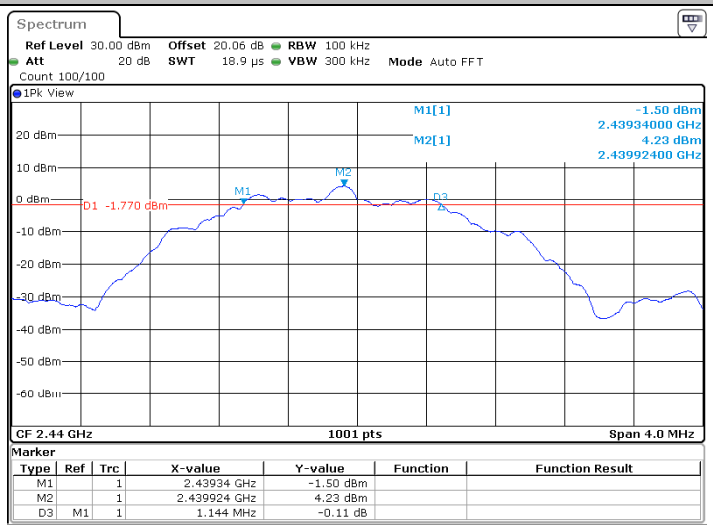
BLE_2M_Ant1_2402



ProjectNo.:2401W88467E-RFTester:Tom.Tan

Date: 26.DEC.2024 18:07:58

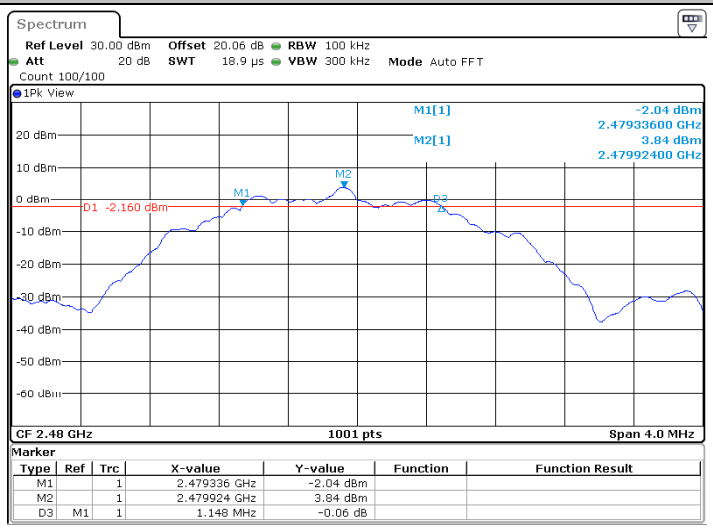
BLE_2M_Ant1_2440



ProjectNo.:2401W88467E-RF Tester:Navilite.Cai

Date: 19.AUG.2024 10:05:09

BLE_2M_Ant1_2480



ProjectNo.:2401W88467E-RF Tester:Navilite.Cai

Date: 19.AUG.2024 10:08:21

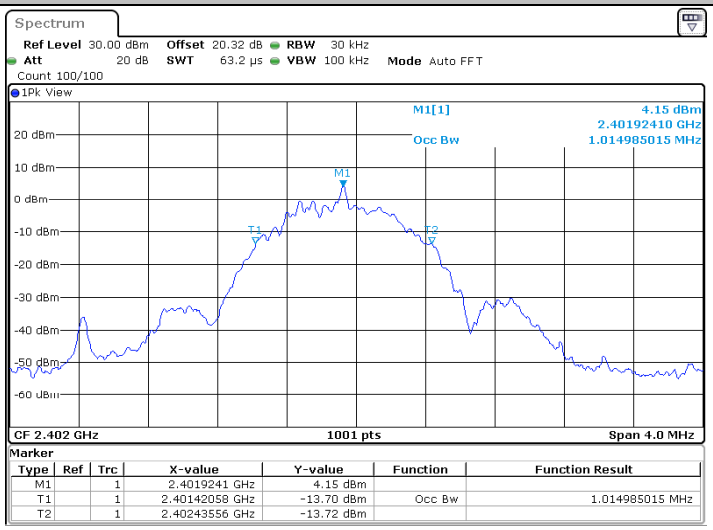
Appendix B: Occupied Channel Bandwidth

Test Result

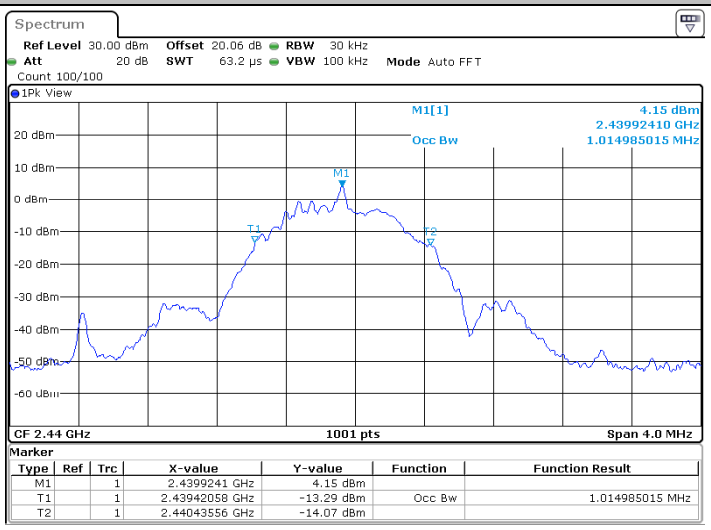
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.015	2401.4206	2402.4356	---	---
		2440	1.015	2439.4206	2440.4356	---	---
		2480	1.015	2479.4206	2480.4356	---	---
BLE_2M	Ant1	2402	2.002	2400.9331	2402.9351	---	---
		2440	2.002	2438.9411	2440.9431	---	---
		2480	2.006	2478.9371	2480.9431	---	---

Test Graphs

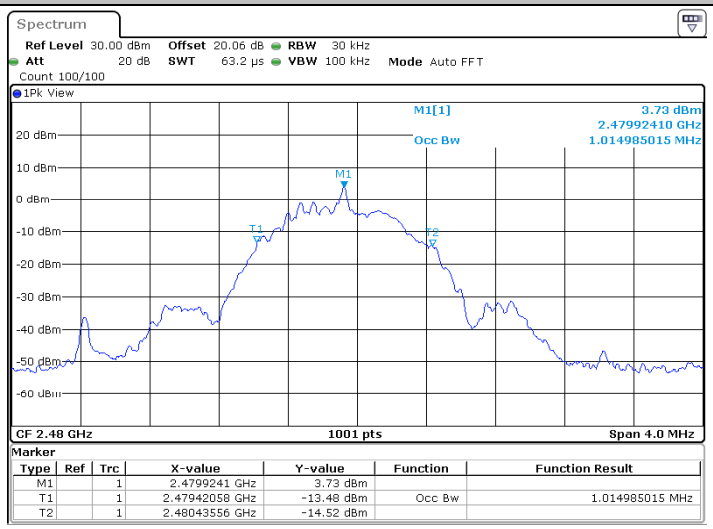
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

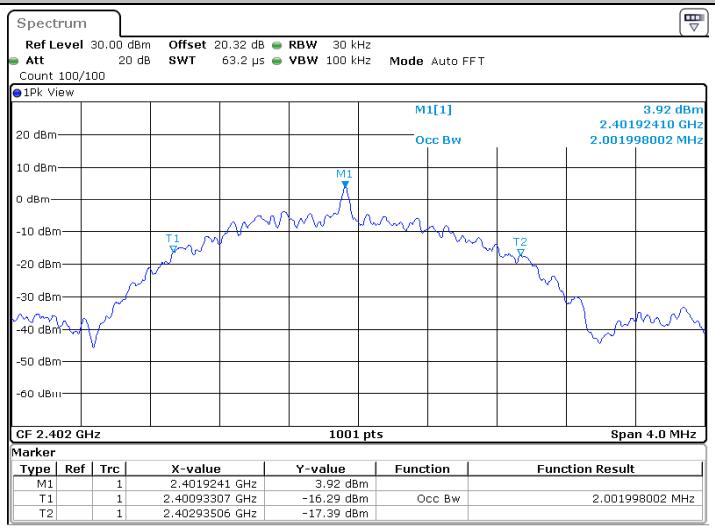


BLE_1M_Ant1_2480



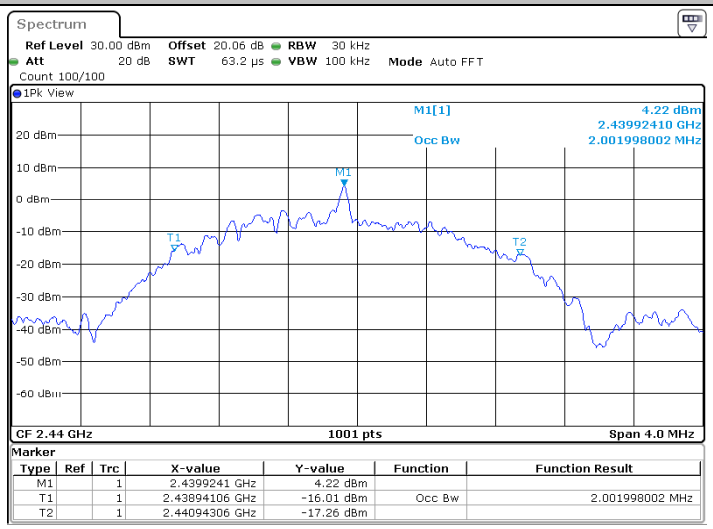
ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 19.AUG.2024 10:01:42

BLE_2M_Ant1_2402

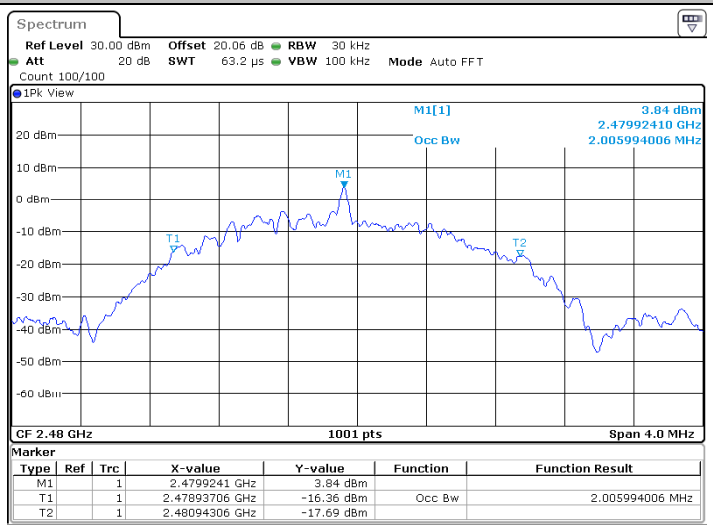


ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 25.DEC.2024 08:45:58

BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



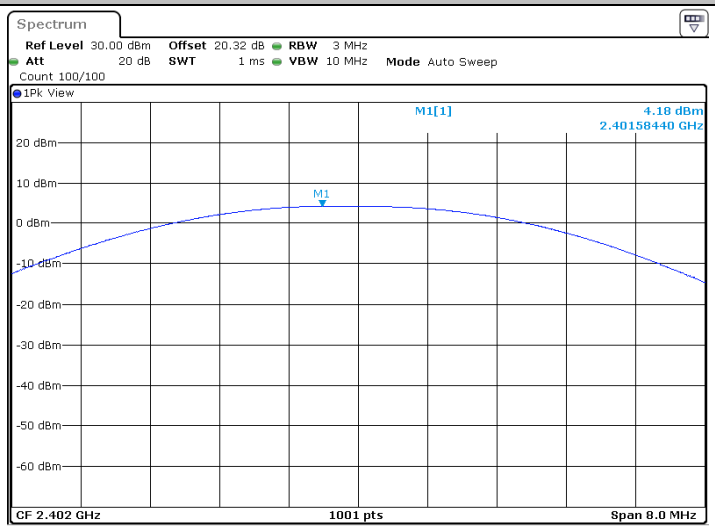
Appendix C: Maximum Conducted Output Power

Test Result Peak

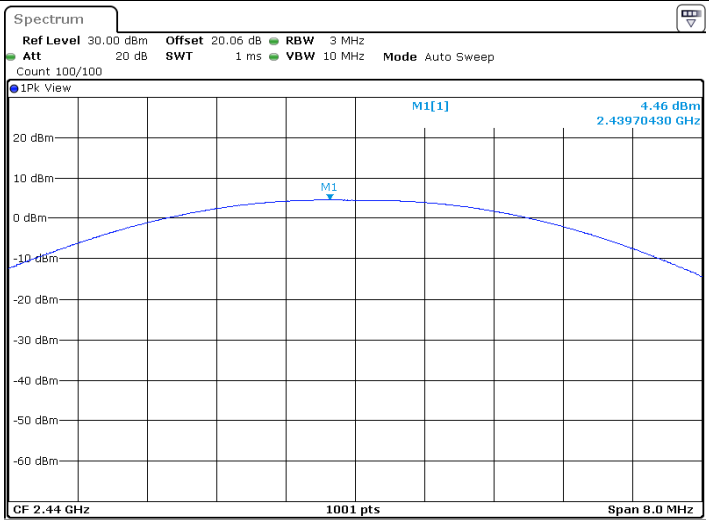
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.18	≤30	3.50	≤36	PASS
		2440	4.46	≤30	3.78	≤36	PASS
		2480	4.02	≤30	3.34	≤36	PASS
BLE_2M	Ant1	2402	4.21	≤30	3.53	≤36	PASS
		2440	4.56	≤30	3.88	≤36	PASS
		2480	4.16	≤30	3.48	≤36	PASS

Test Graphs Peak

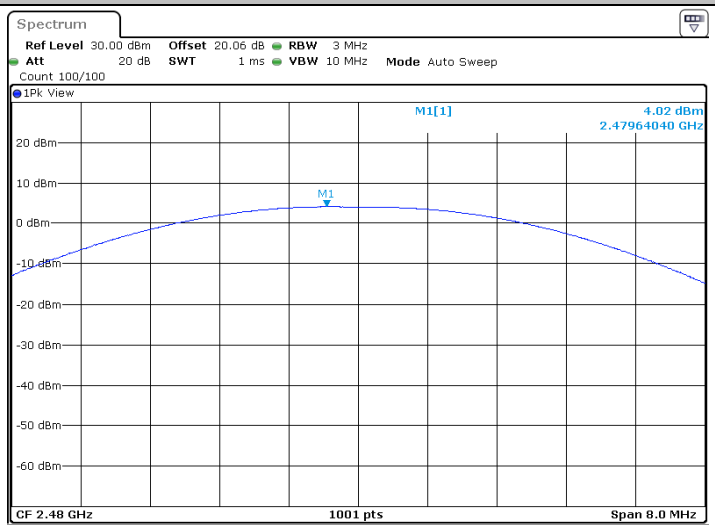
BLE_1M_Ant1_2402



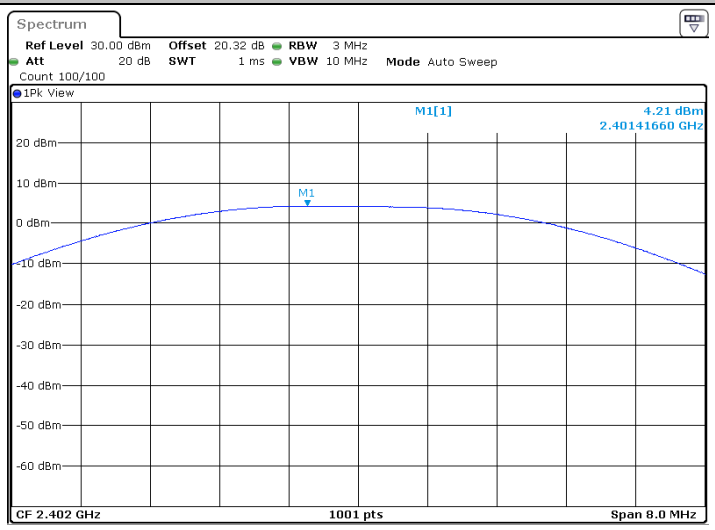
BLE_1M_Ant1_2440



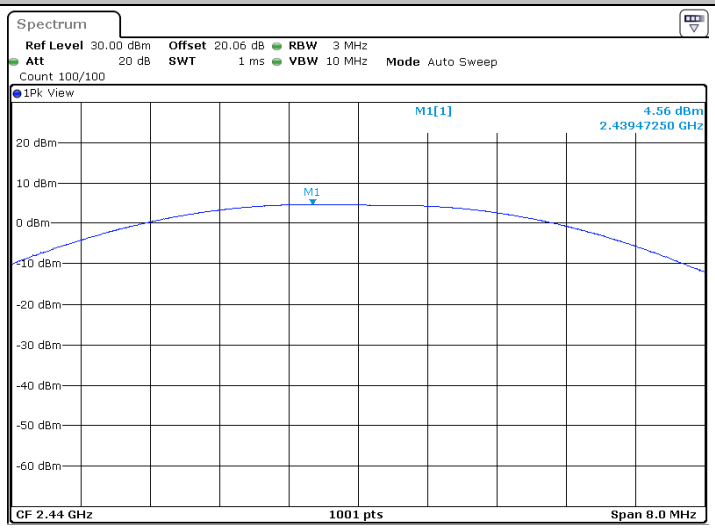
BLE_1M_Ant1_2480



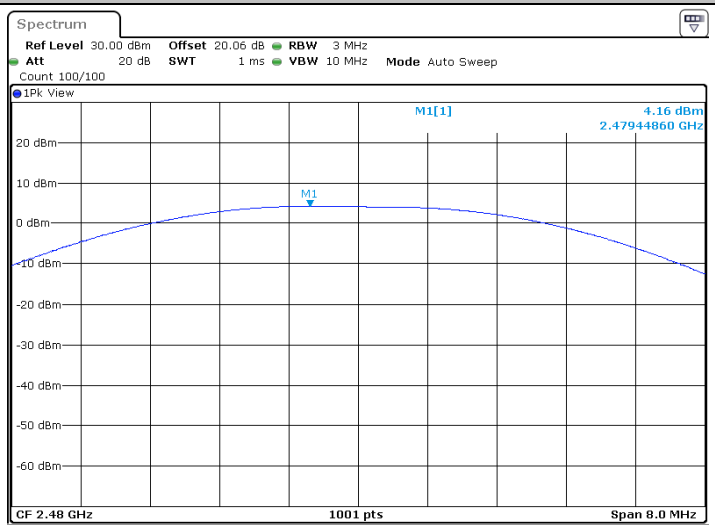
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



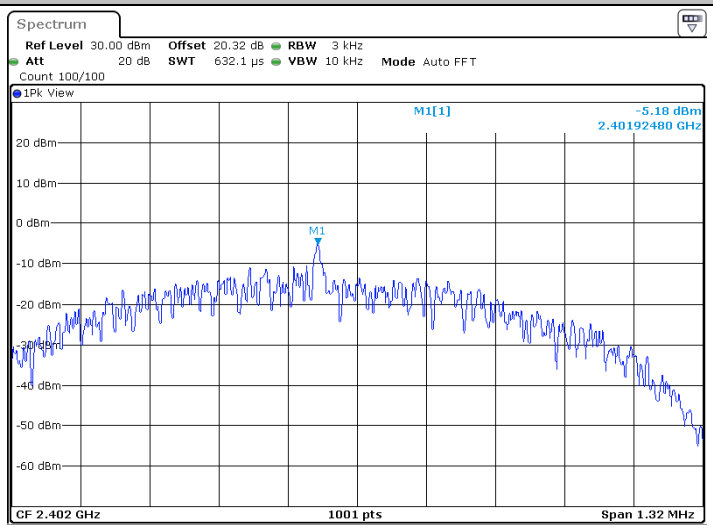
Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.18	≤8.00	PASS
		2440	-5.84	≤8.00	PASS
		2480	-6.02	≤8.00	PASS
BLE_2M	Ant1	2402	-5.60	≤8.00	PASS
		2440	-6.18	≤8.00	PASS
		2480	-6.38	≤8.00	PASS

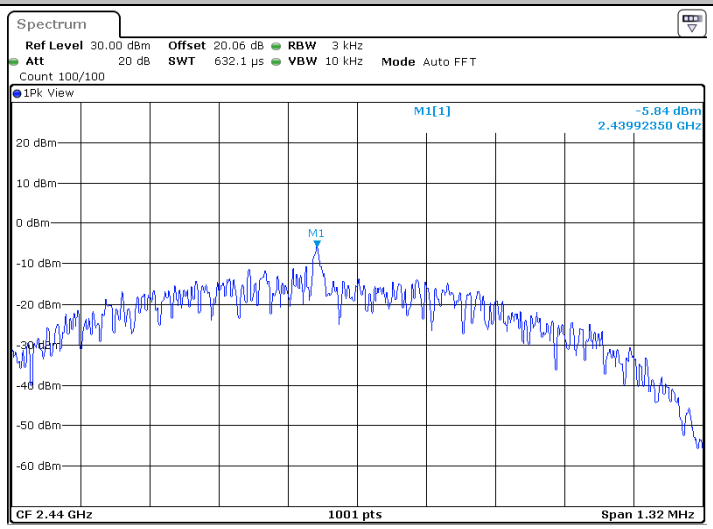
Test Graphs

BLE_1M_Ant1_2402



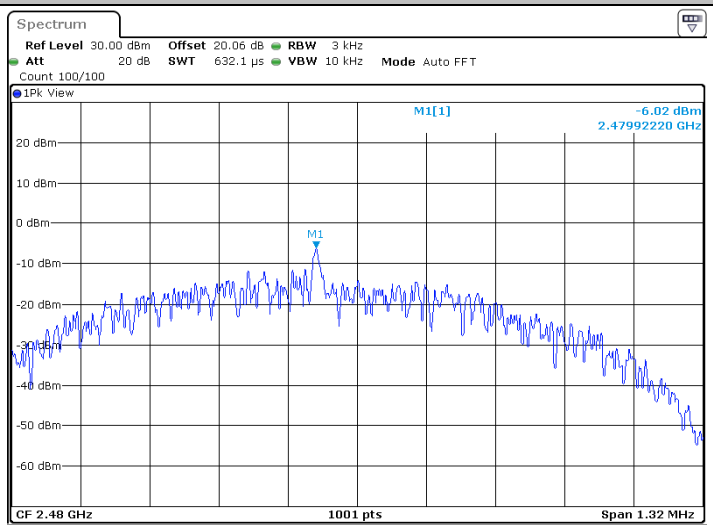
ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 19.AUG.2024 09:54:58

BLE_1M_Ant1_2440

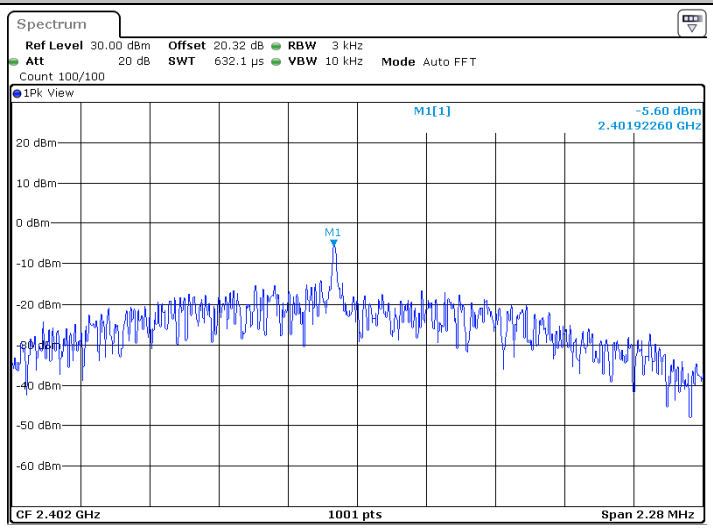


ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 19.AUG.2024 09:57:22

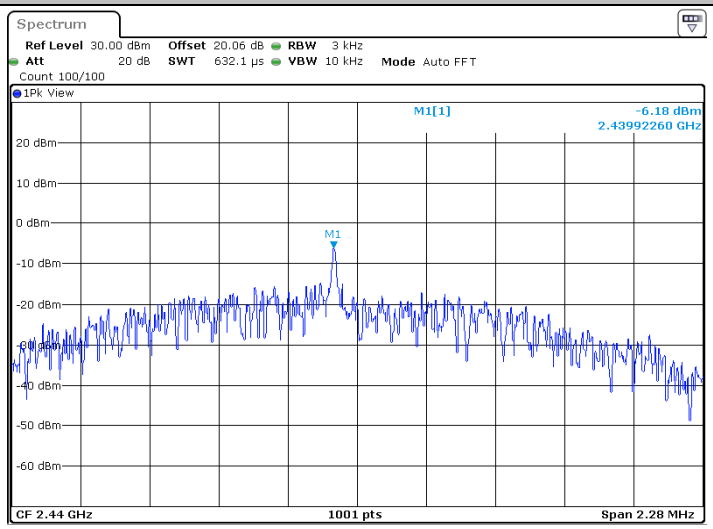
BLE_1M_Ant1_2480



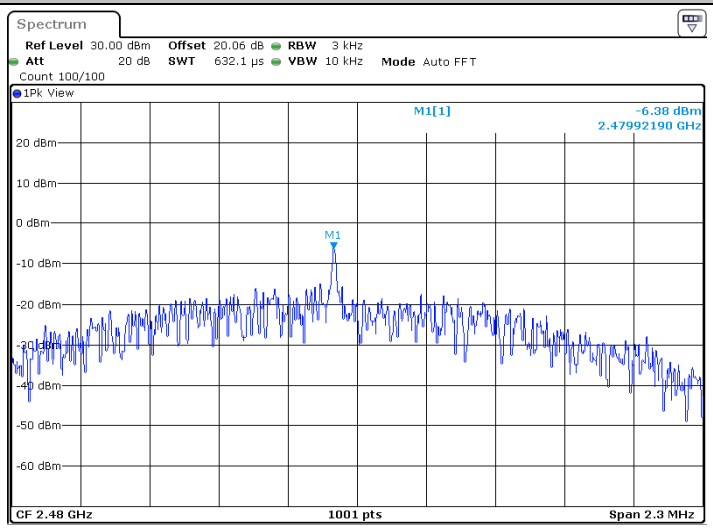
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



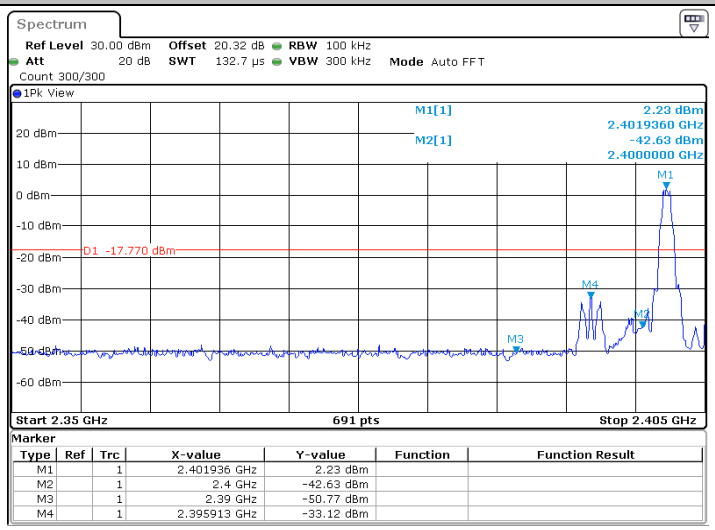
BLE_2M_Ant1_2480



Appendix E: Band Edge Measurements

Test Graphs

BLE_1M_Ant1_Low_2402

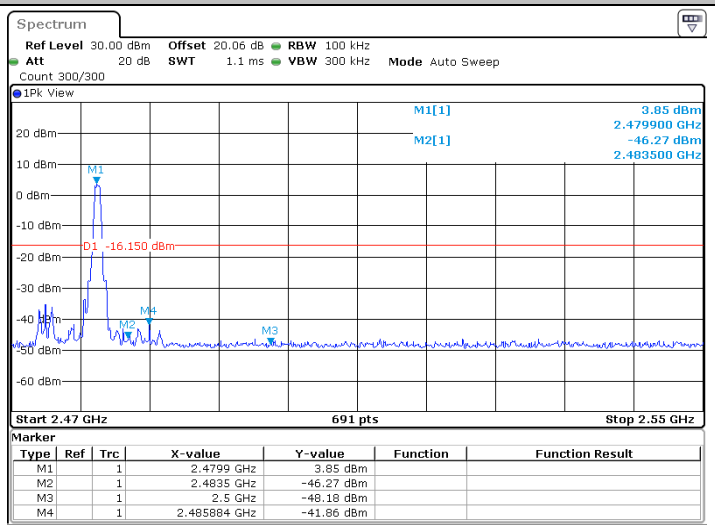


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401936 GHz	2.23 dBm		
M2		1	2.4 GHz	-42.63 dBm		
M3		1	2.39 GHz	-50.77 dBm		
M4		1	2.395913 GHz	-33.12 dBm		

ProjectNo.:2401W88467E-RFTester:Tom.Tan
Date: 26.DEC.2024 18:09:02

BLE_1M_Ant1_High_2480

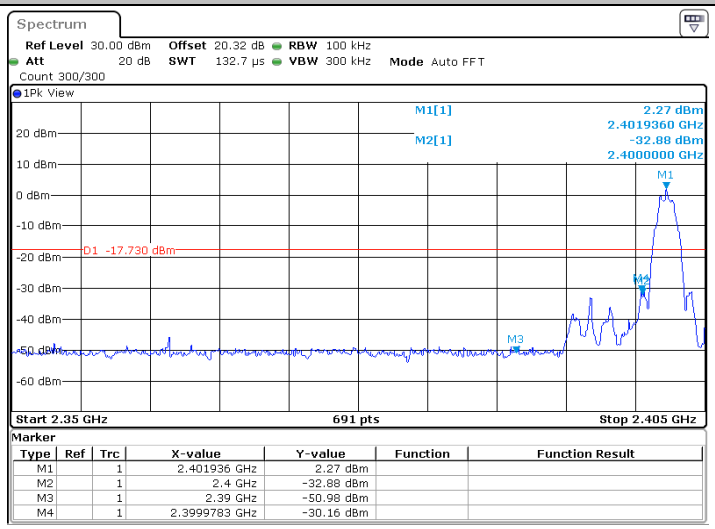


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4799 GHz	3.85 dBm		
M2		1	2.4835 GHz	-46.27 dBm		
M3		1	2.5 GHz	-48.18 dBm		
M4		1	2.485884 GHz	-41.86 dBm		

ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 19.AUG.2024 10:02:02

BLE_2M_Ant1_Low_2402

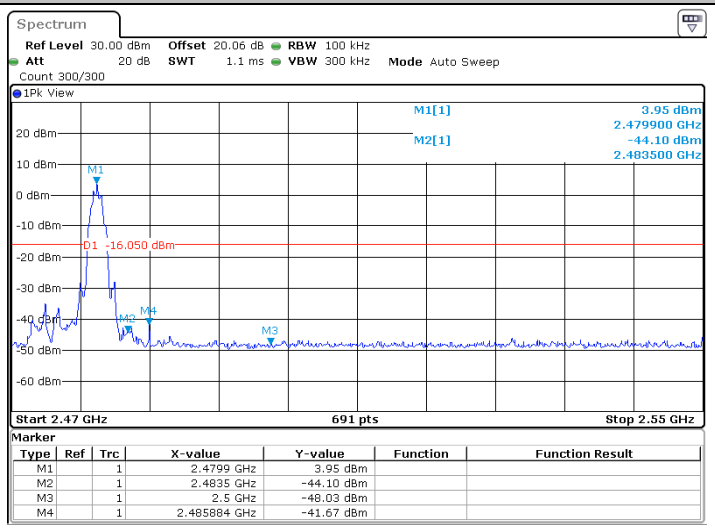


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401936 GHz	2.27 dBm		
M2		1	2.4 GHz	-32.88 dBm		
M3		1	2.39 GHz	-50.98 dBm		
M4		1	2.3999783 GHz	-30.16 dBm		

ProjectNo.:2401W88467E-RFTester:Tom.Tan
Date: 26.DEC.2024 18:08:34

BLE_2M_Ant1_High_2480



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4799 GHz	3.95 dBm		
M2		1	2.4835 GHz	-44.10 dBm		
M3		1	2.5 GHz	-48.03 dBm		
M4		1	2.485884 GHz	-41.67 dBm		

ProjectNo.:2401W88467E-RF Tester:Navilite.Cai
Date: 19.AUG.2024 10:08:48

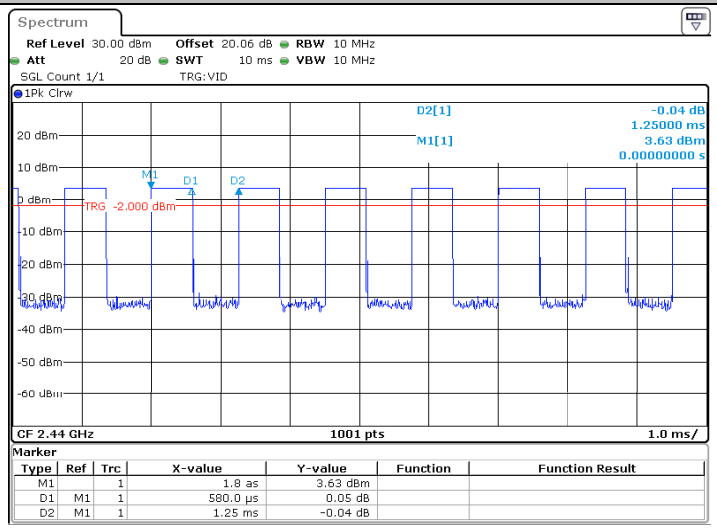
Appendix F: Duty Cycle

Test Result

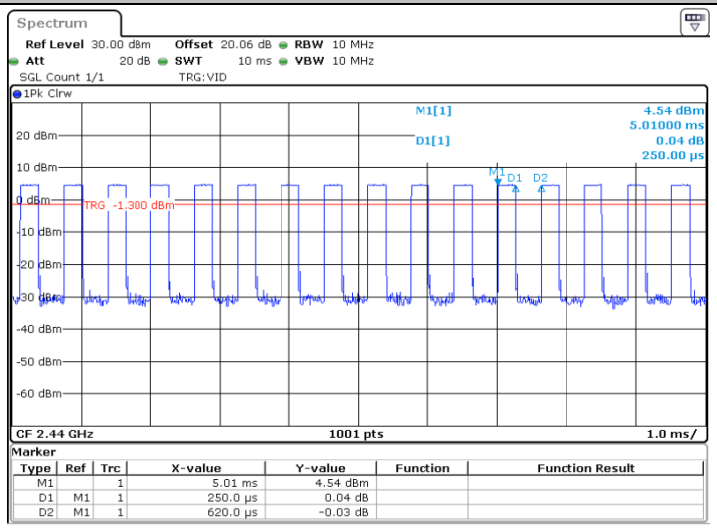
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T[Hz]	VBW Setting [Hz]
BLE_1M	Ant1	2440	0.58	1.25	46.40	3.33	1724	2000
BLE_2M	Ant1	2440	0.25	0.62	40.32	3.94	4000	5000

Test Graphs

BLE_1M_Ant1_2440



BLE_2M_Ant1_2440



******* END OF REPORT *******