

Appendix: Bluetooth LE of module 1

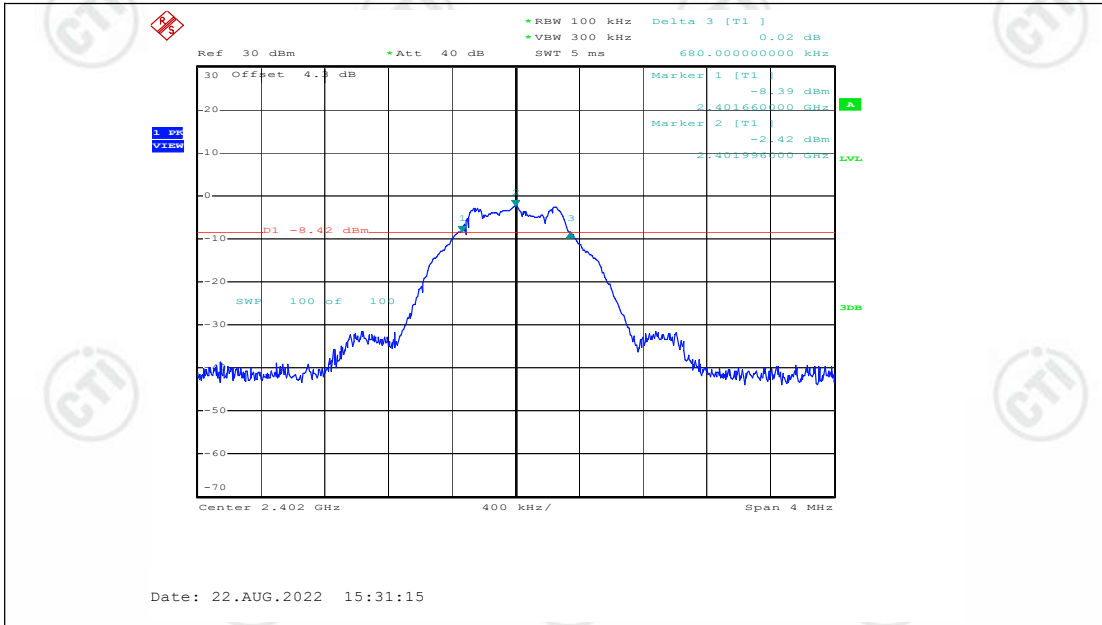
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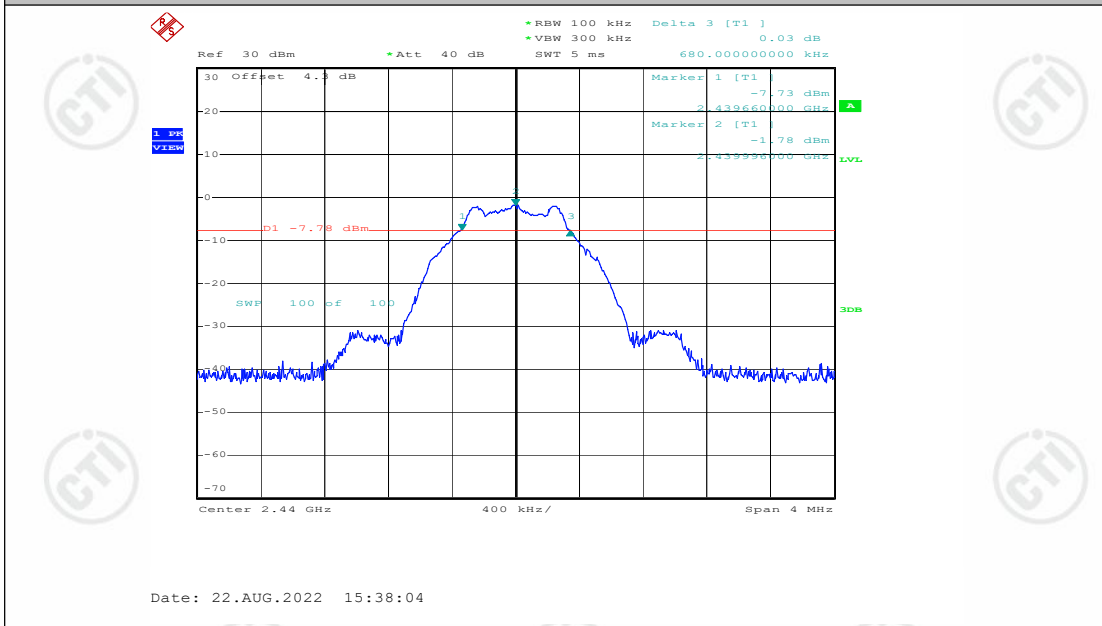
**Appendix A: DTS Bandwidth****Test Result**

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	0.5	PASS
		2440	0.68	2439.66	2440.34	0.5	PASS
		2480	0.67	2479.66	2480.34	0.5	PASS

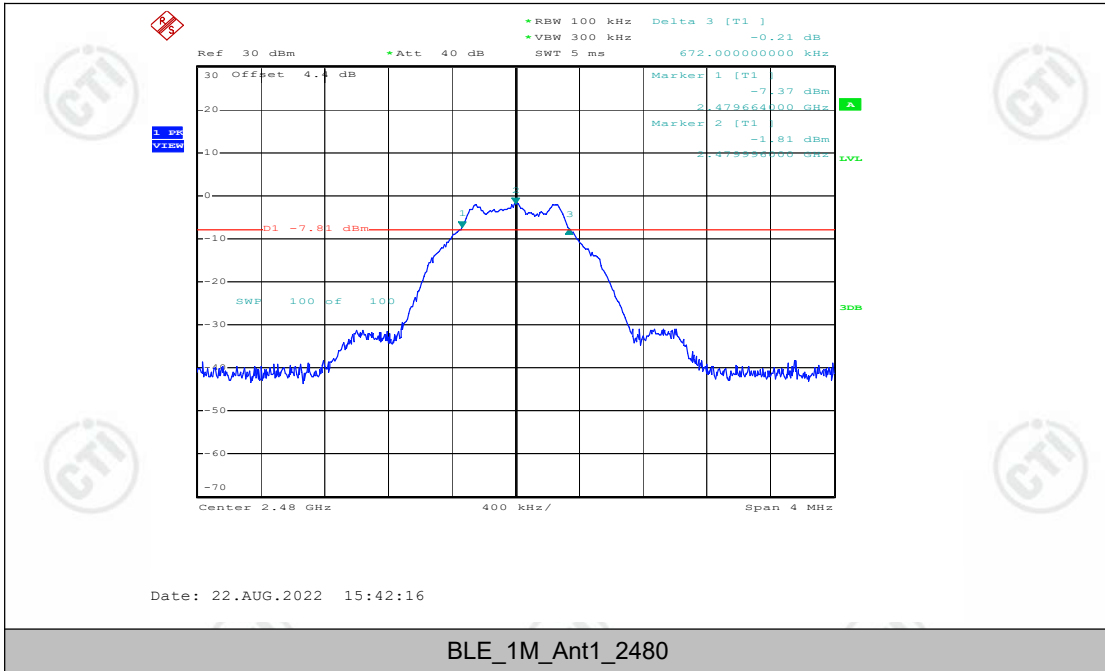
## Test Graphs



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440

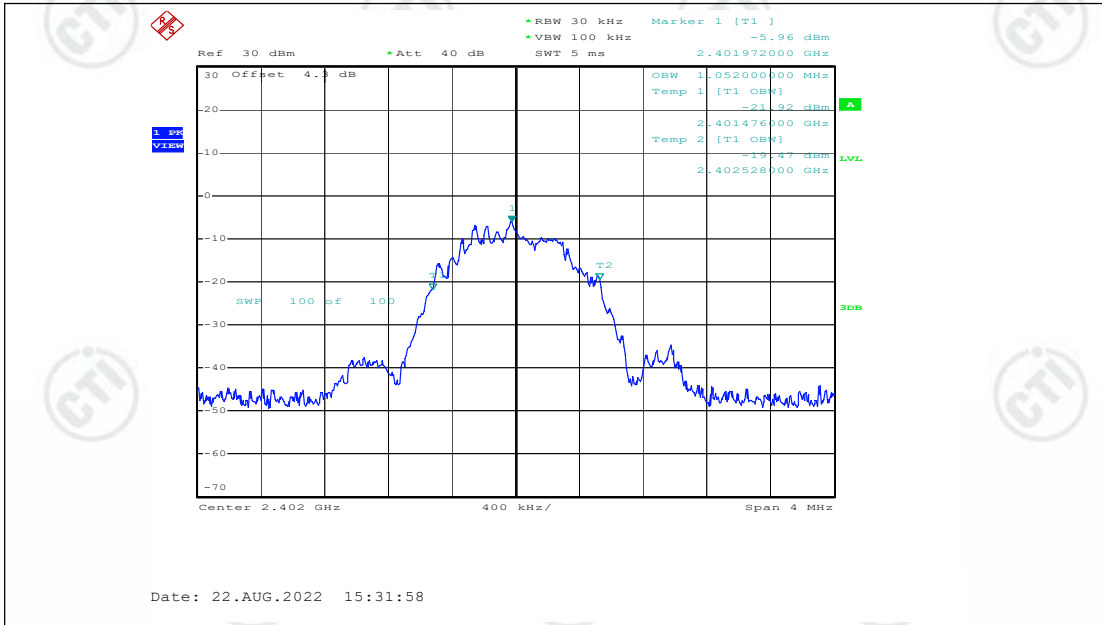


BLE\_1M\_Ant1\_2480

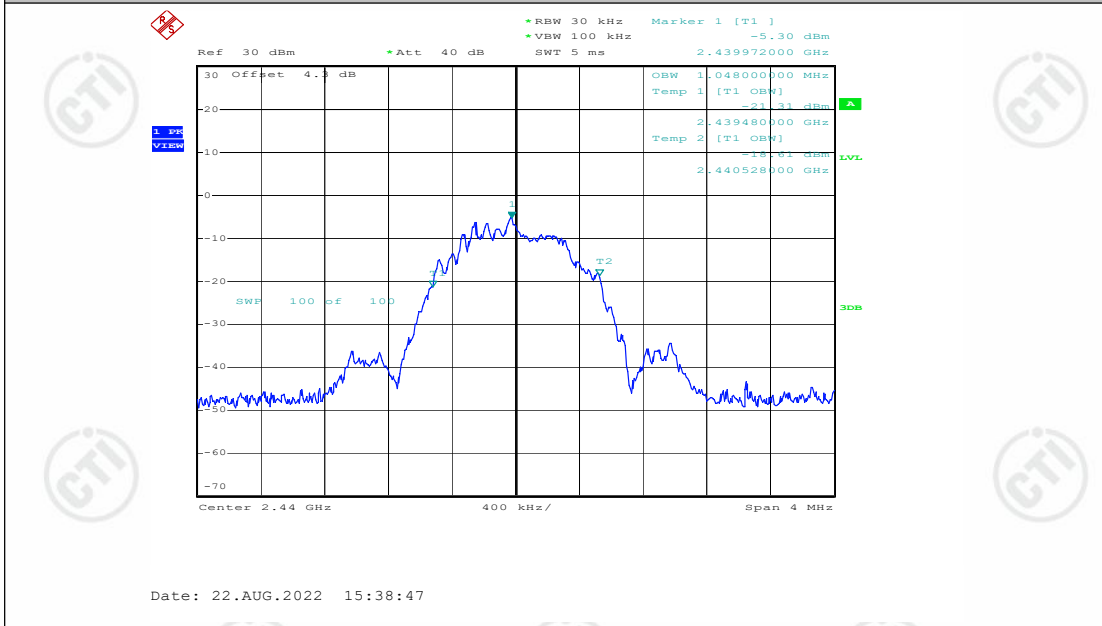
**Appendix B: Occupied Channel Bandwidth****Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.052	0.000	0.000	---	---
		2440	1.048	0.000	0.000	---	---
		2480	1.052	0.000	0.000	---	---

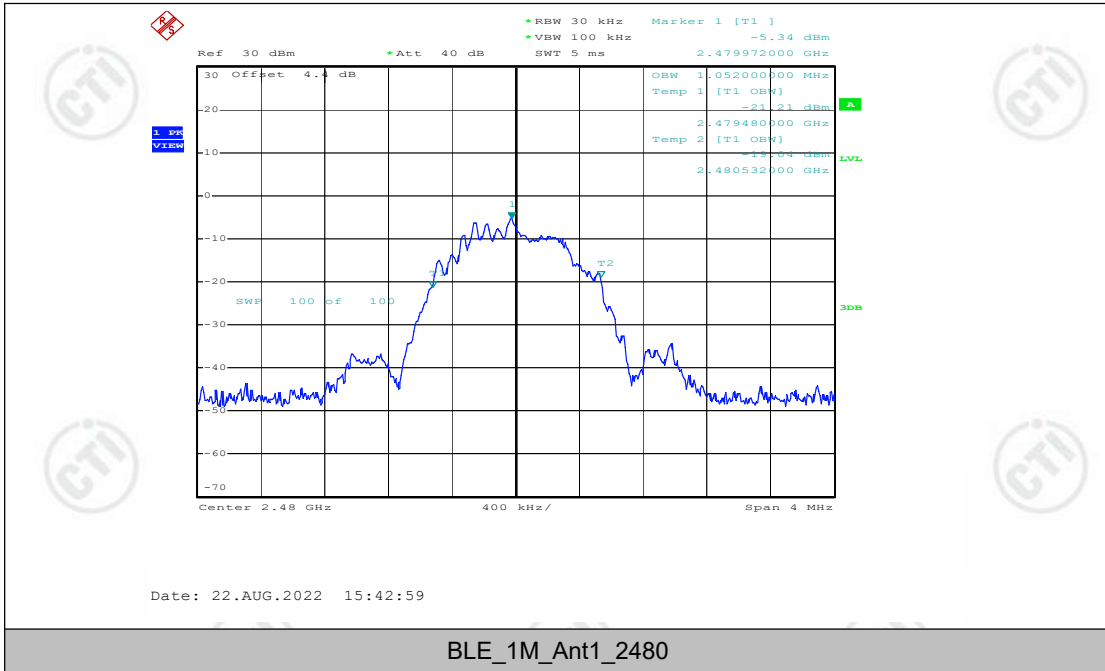
## Test Graphs



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440





## Appendix C: Maximum conducted output power

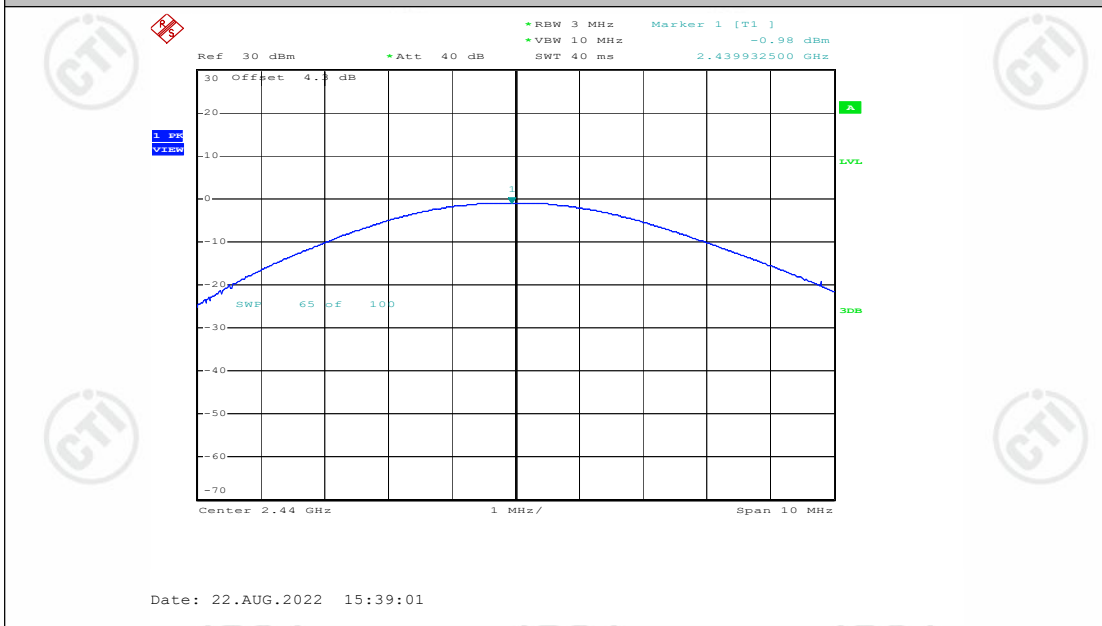
### Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.59	≤30	PASS
		2440	<b>-0.98</b>	≤30	PASS
		2480	-1.01	≤30	PASS

## Test Graphs



BLE\_1M\_Ant1\_2402



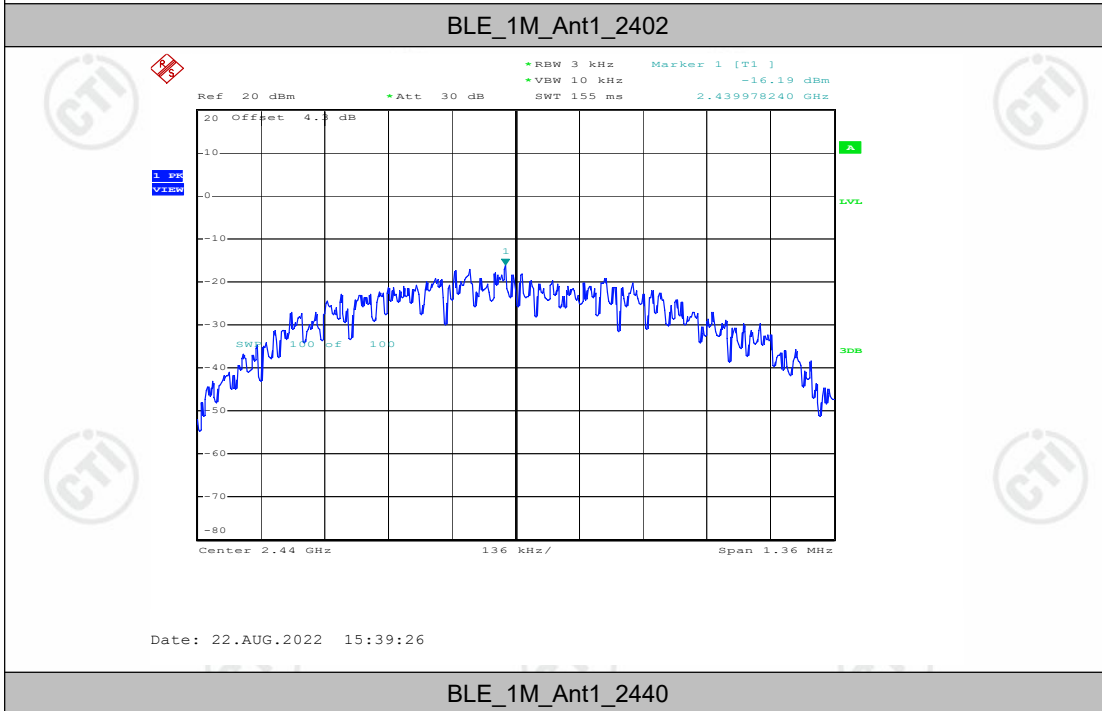
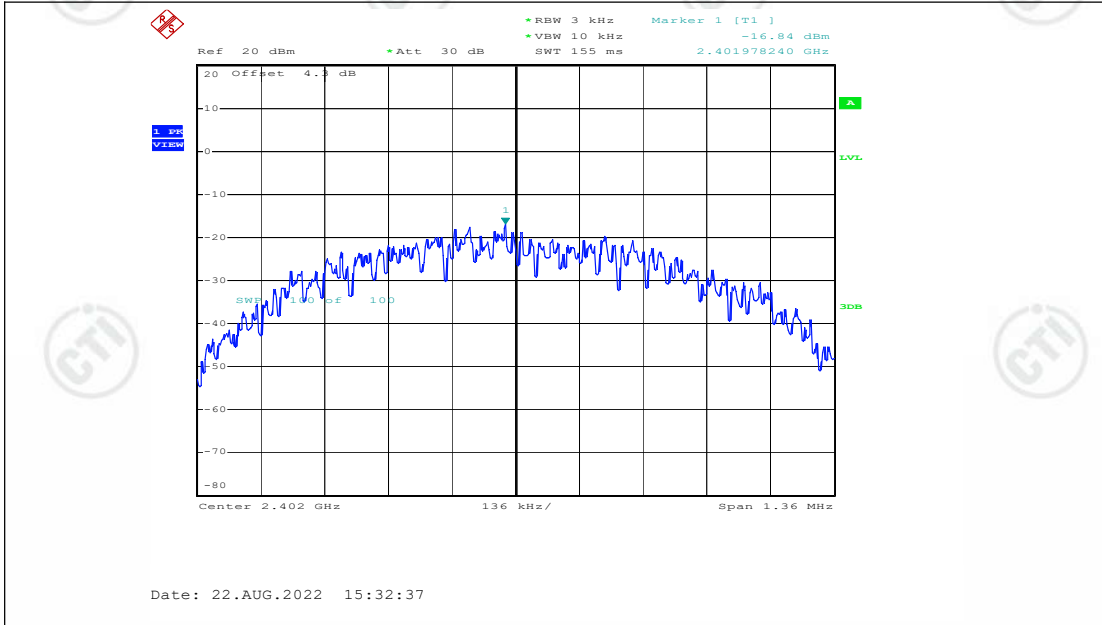
BLE\_1M\_Ant1\_2440

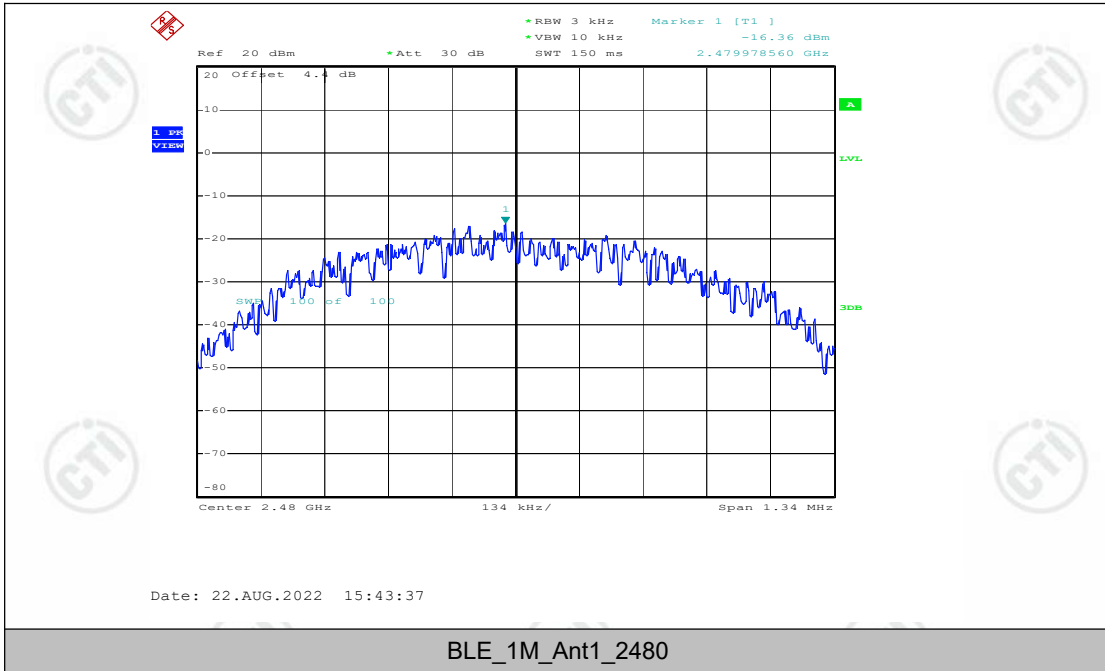


**Appendix D: Maximum power spectral density****Test Result**

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.84	≤8.00	PASS
		2440	-16.19	≤8.00	PASS
		2480	-16.36	≤8.00	PASS

## Test Graphs

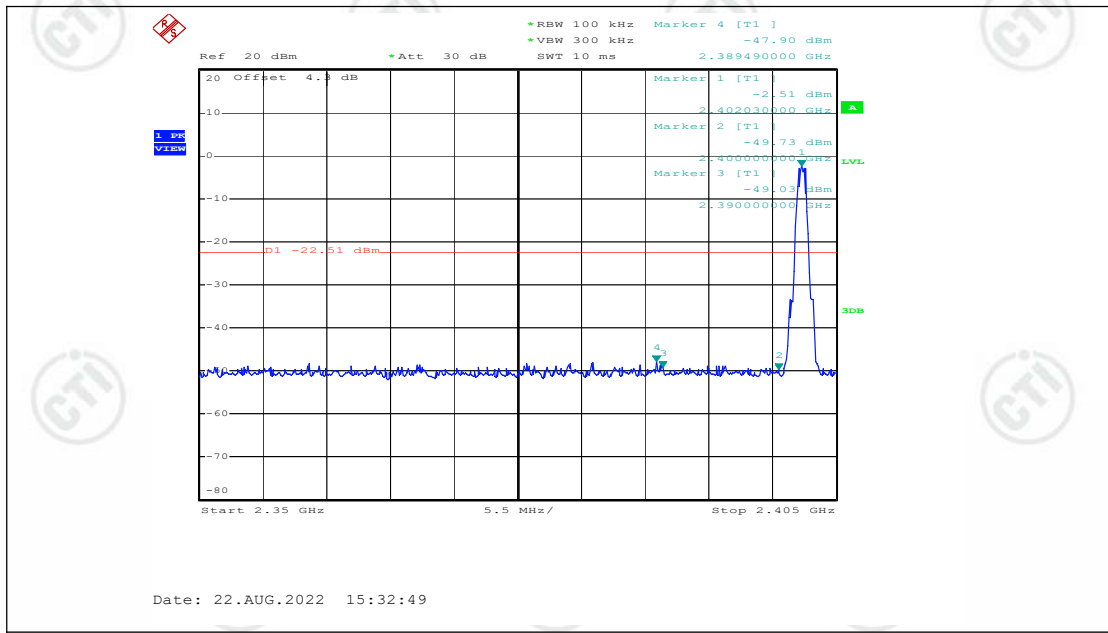




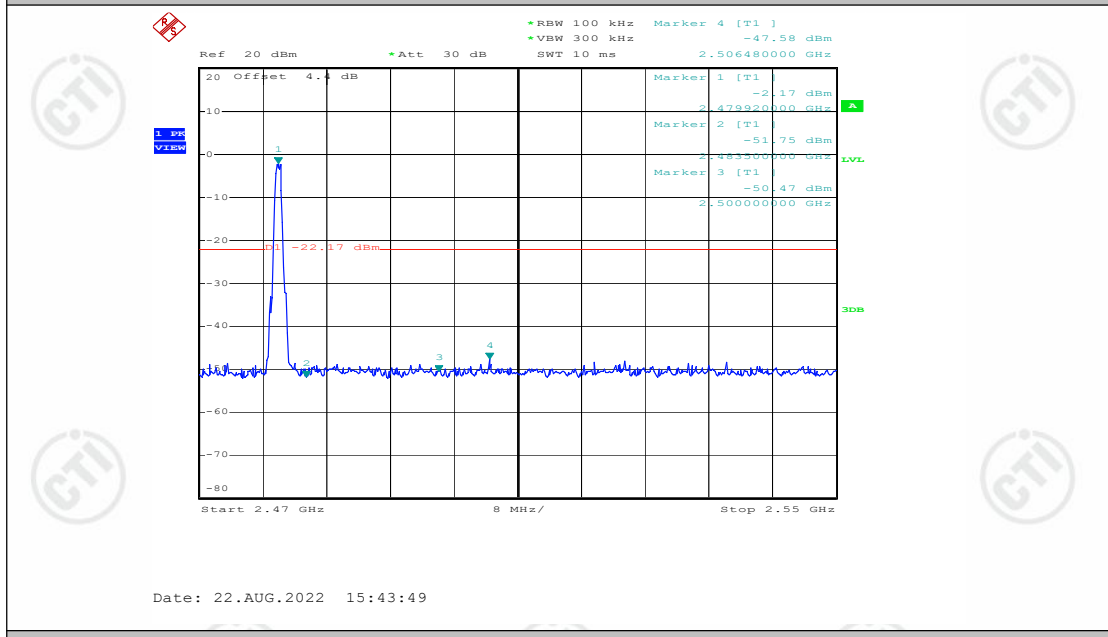
**Appendix E: Band edge measurements****Test Result**

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.51	-47.9	≤-22.51	PASS
		High	2480	-2.17	-47.58	≤-22.17	PASS

## Test Graphs



BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480

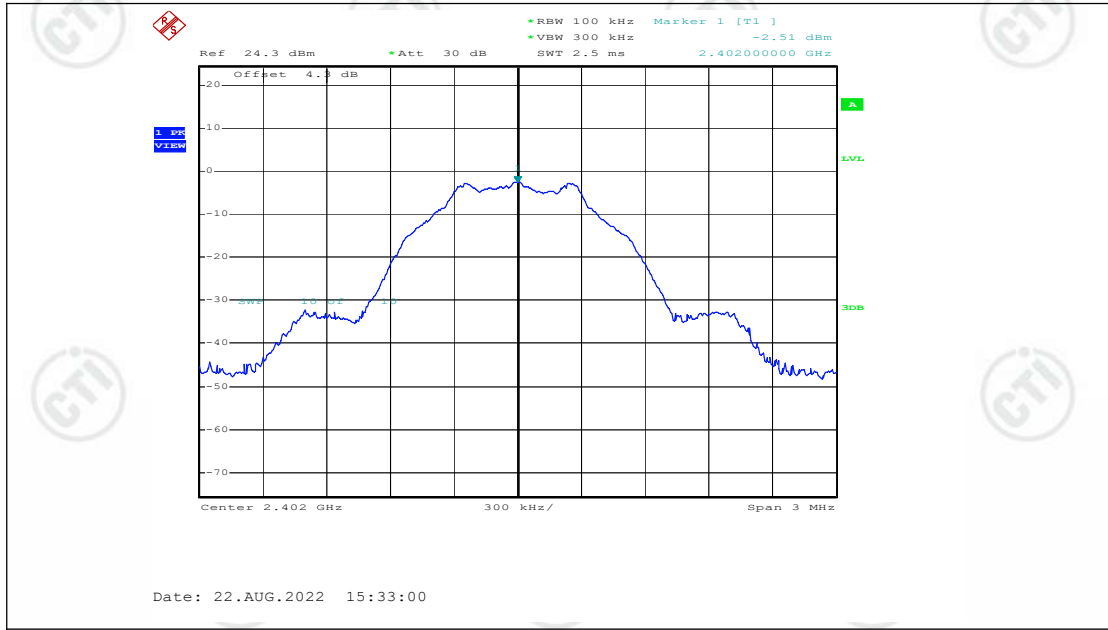


## Appendix F: Conducted Spurious Emission

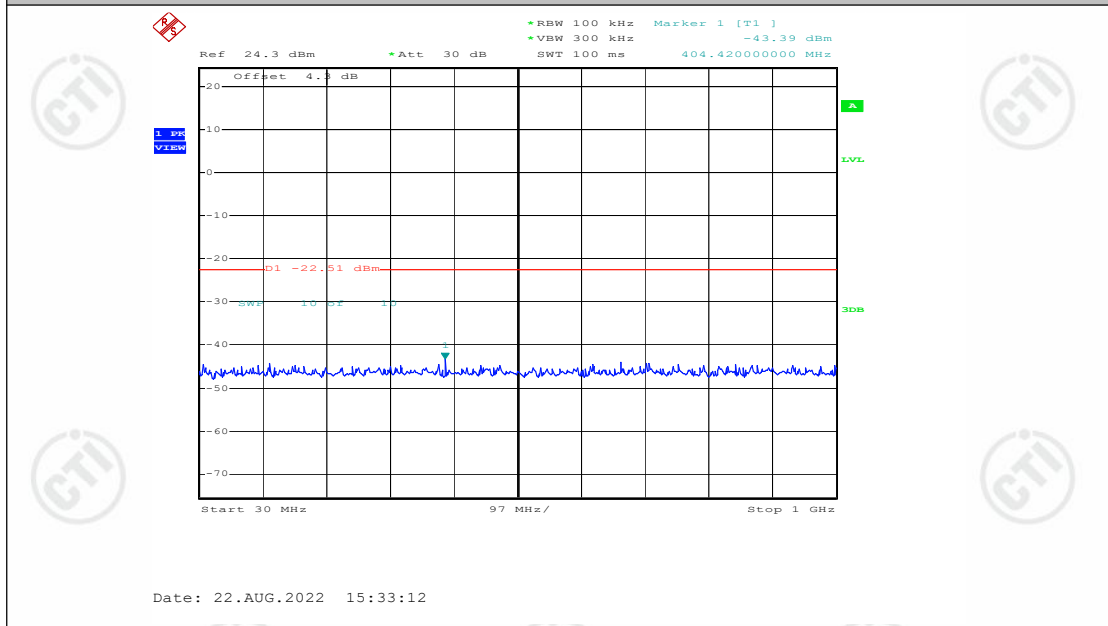
### Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-43.39	≤-22.51	PASS
			1000~26500	-2.51	-46.22	≤-22.51	PASS
		2440	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-43.71	≤-21.88	PASS
			1000~26500	-1.88	-46.54	≤-21.88	PASS
		2480	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-43.53	≤-22	PASS
			1000~26500	-2.00	-45.6	≤-22	PASS

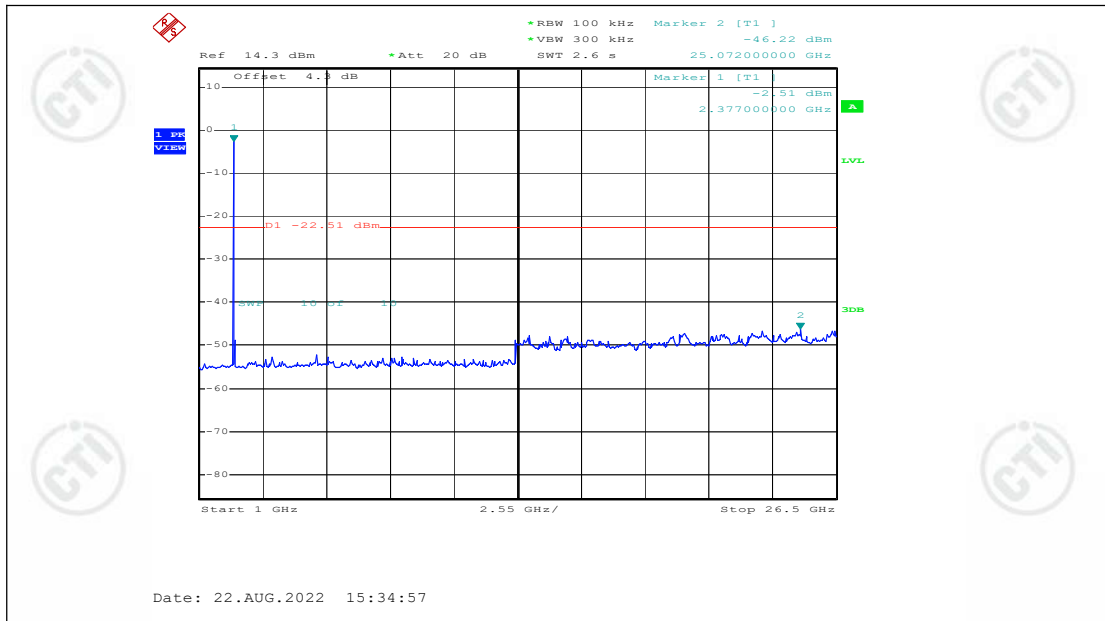
## Test Graphs



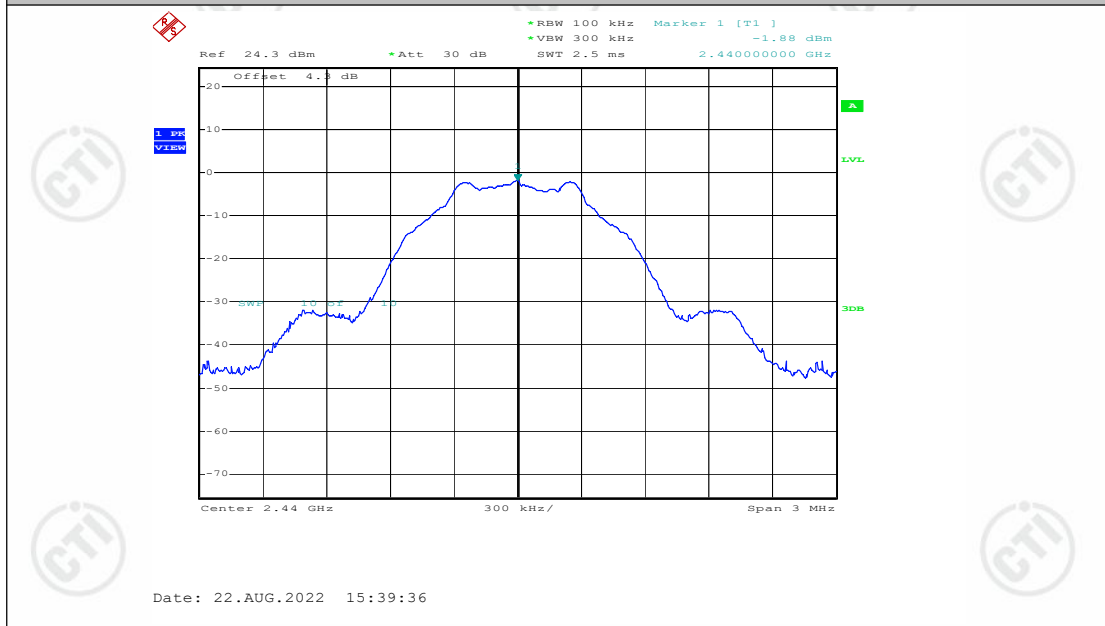
BLE\_1M\_Ant1\_2402\_0~Reference



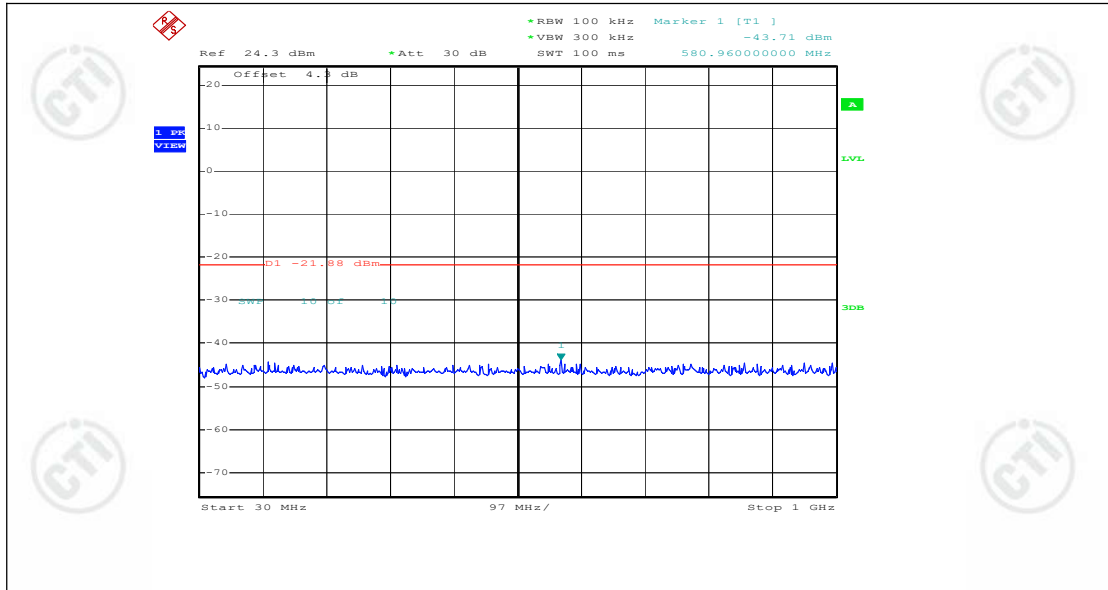
BLE\_1M\_Ant1\_2402\_30~1000



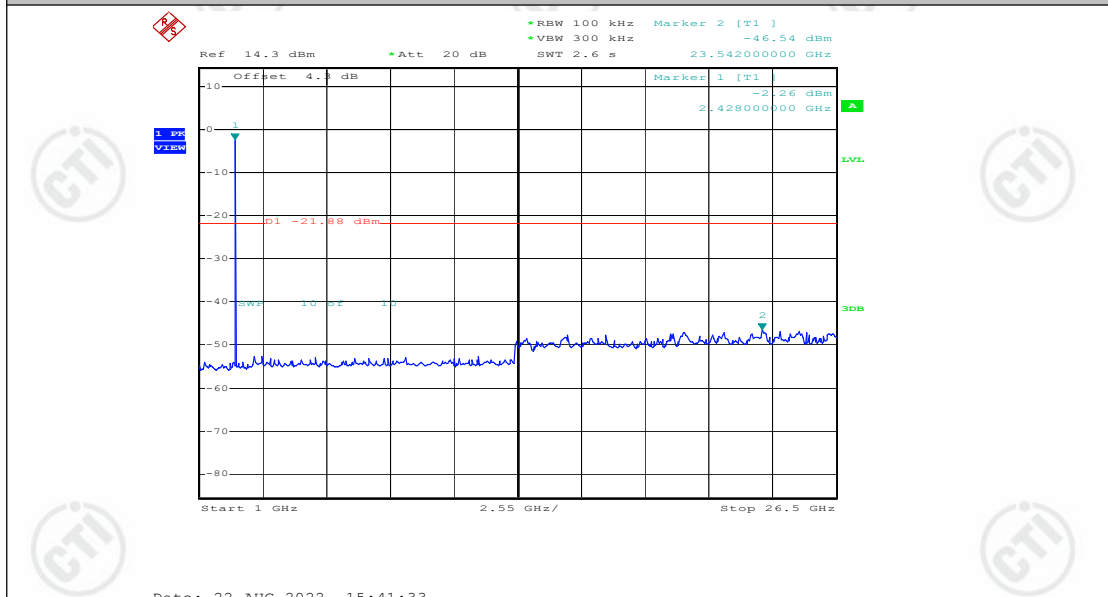
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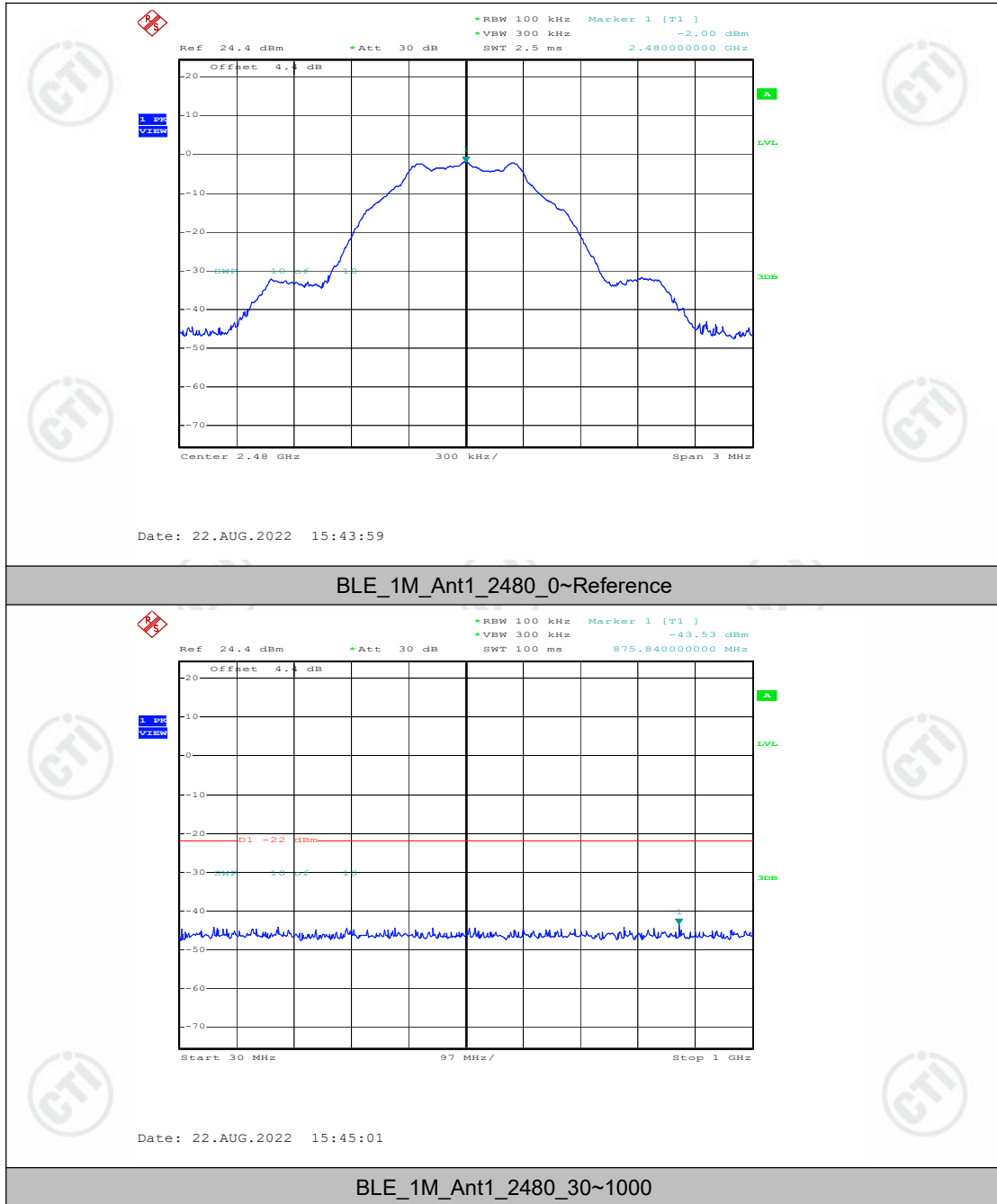
BLE\_1M\_Ant1\_2440\_0~Reference

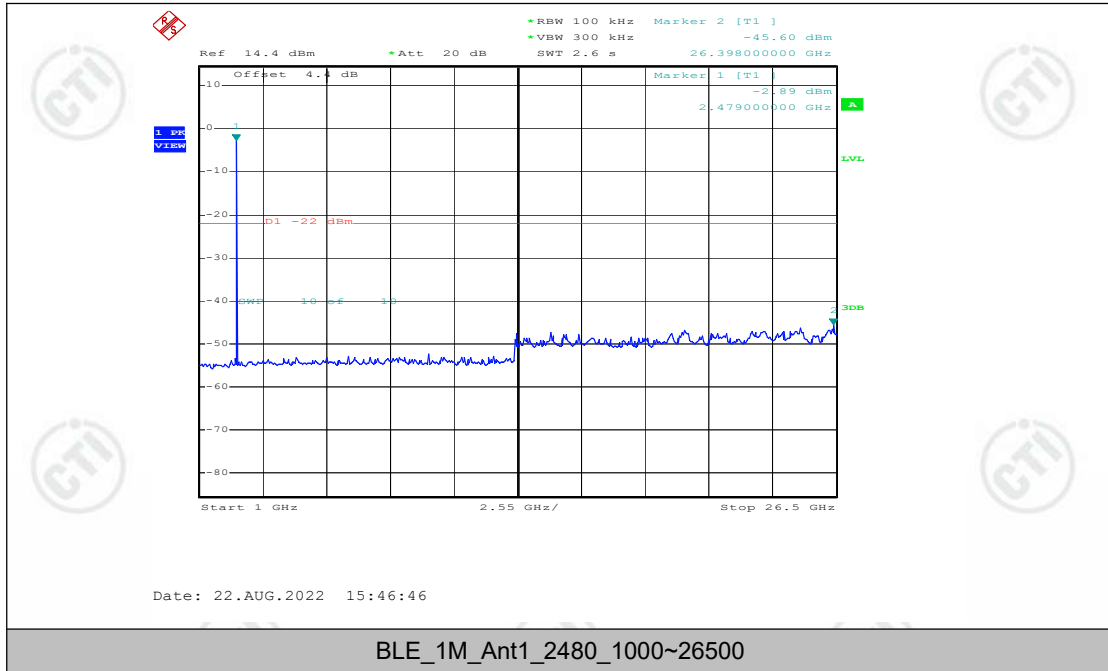


### BLE\_1M\_Ant1\_2440\_30~1000



### BLE\_1M\_Ant1\_2440\_1000~26500

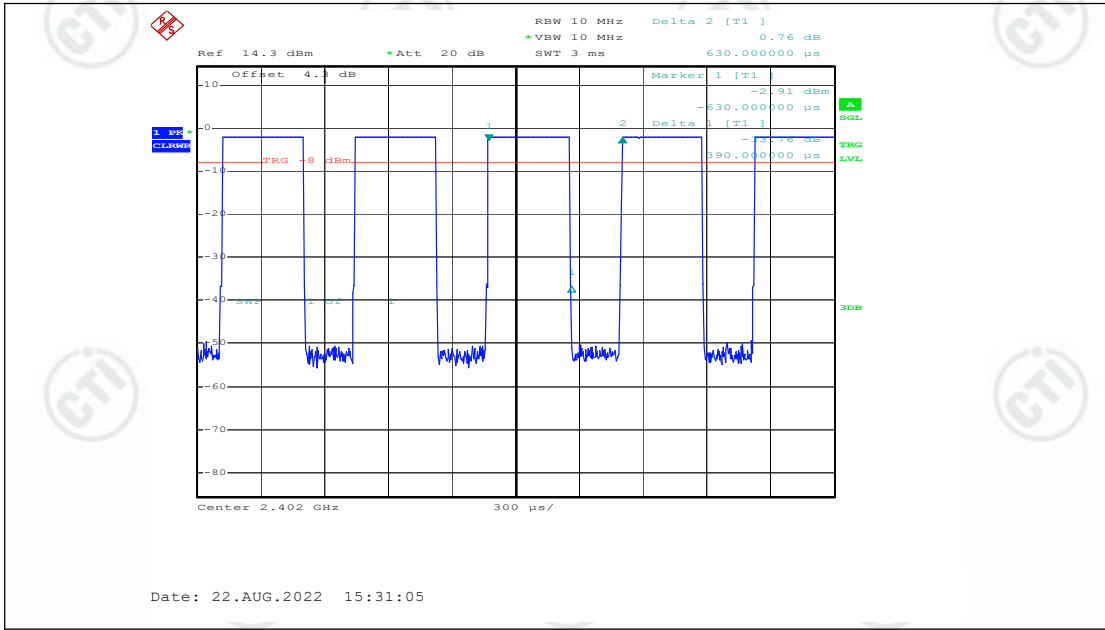




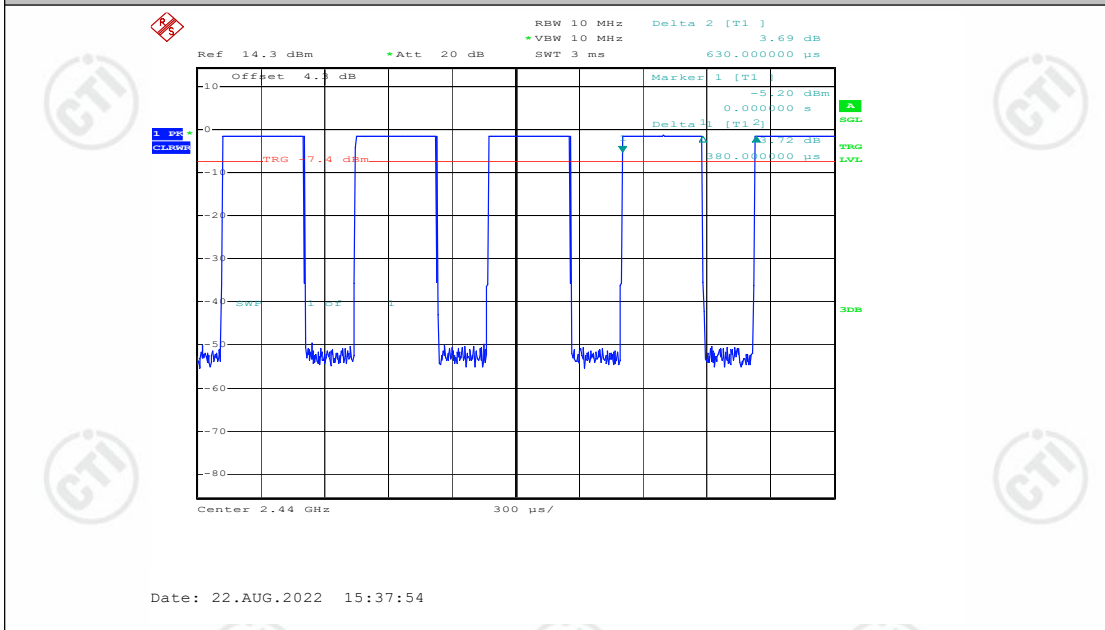
**Appendix G: Duty Cycle****Test Result**

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	61.90	---	---
		2440	0.38	0.63	60.32	---	---
		2480	0.38	0.63	60.32	---	---

## Test Graphs

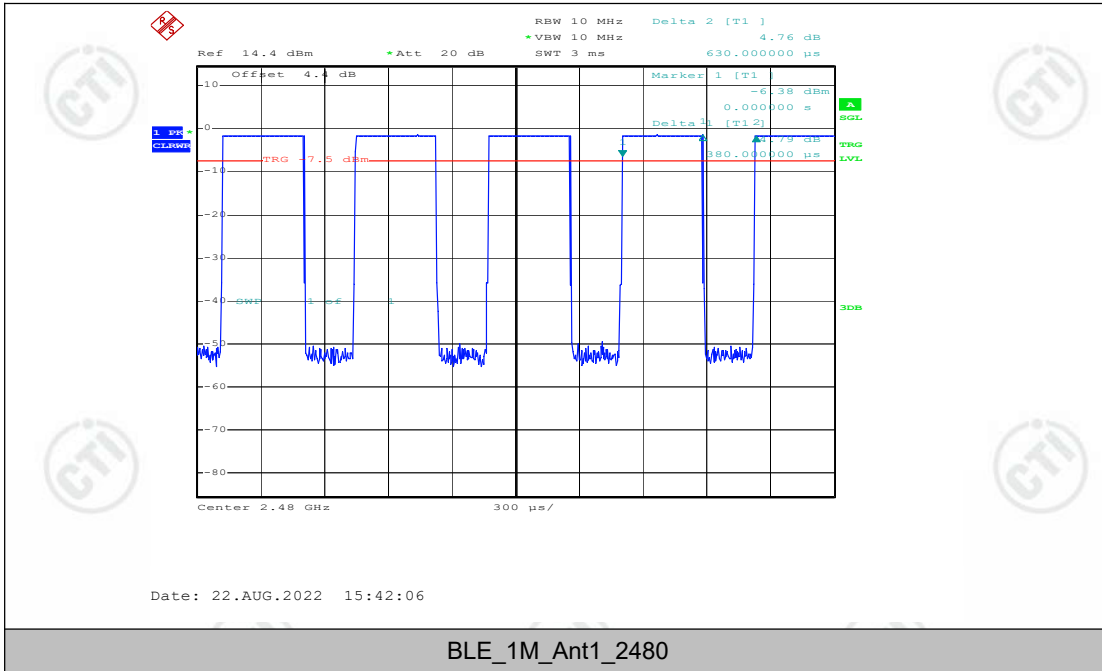


BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440





\*\*\* End of Report \*\*\*