

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
EUT Name:	Tractive Dog 6 XL
Model:	TG6XLC
Sample ID:	HC-C-202512-0263-01-01#
Environmental Conditions	
Ambient Temperature:	23.4℃
Ambient Humidity:	49%RH
Test Power Supply:	DC 3.87V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0263-15	

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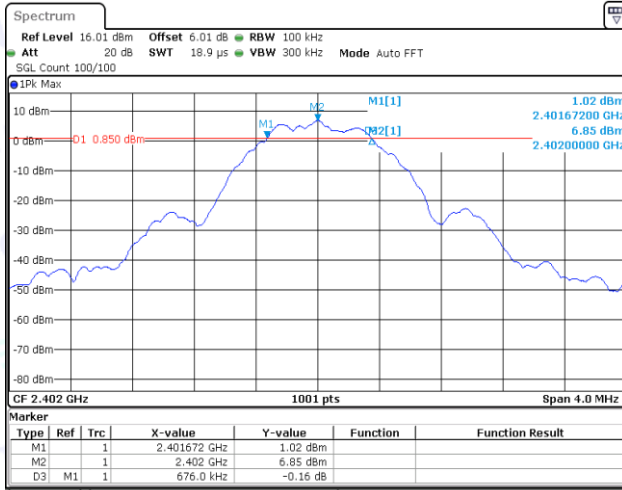
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1: DTS Bandwidth

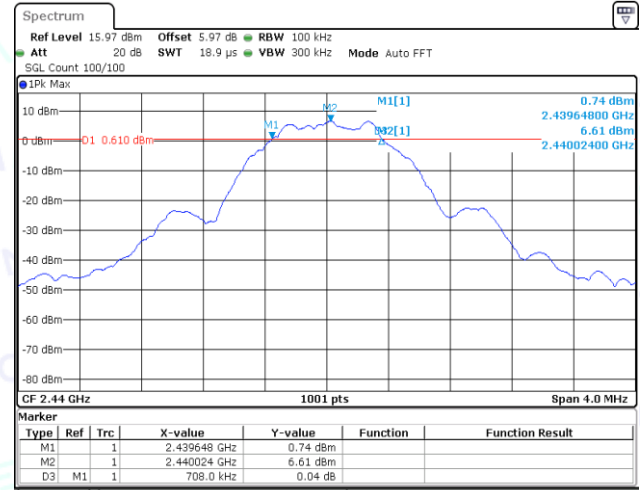
1.1 Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.67	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.71	2439.65	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.68	2480.35	0.5	PASS
BLE_2M	Ant1	2402	0.94	2401.47	2402.41	0.5	PASS
BLE_2M	Ant1	2440	0.92	2439.44	2440.35	0.5	PASS
BLE_2M	Ant1	2480	1.29	2479.34	2480.63	0.5	PASS

1.2 Test Graphs



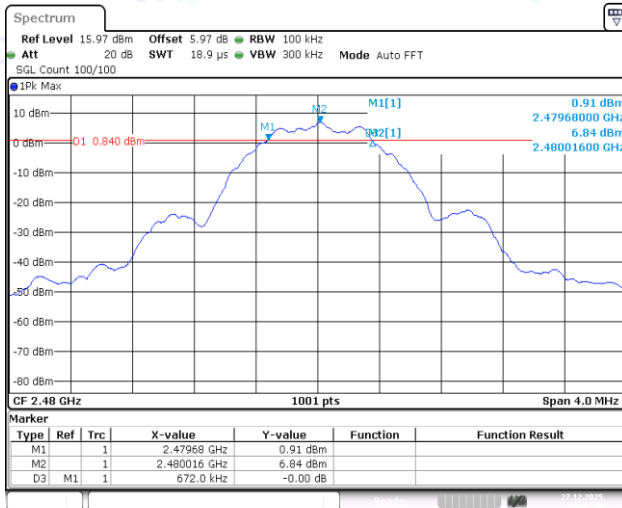
Date: 27.DEC.2025 09:42:15



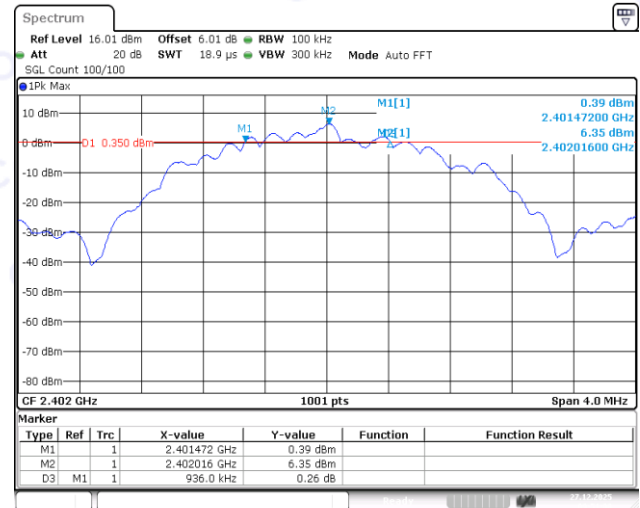
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BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



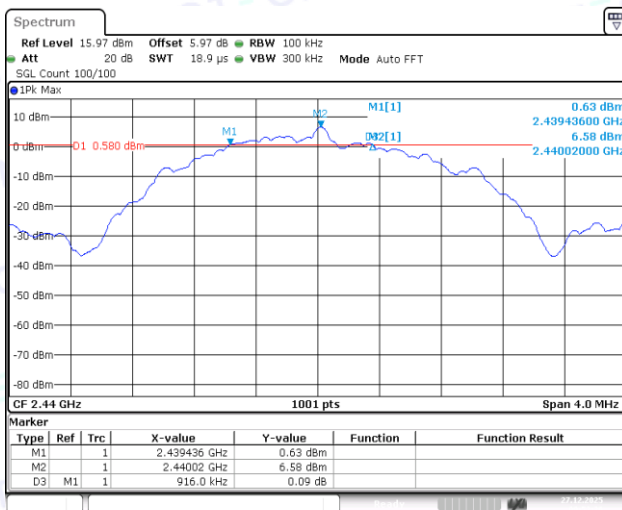
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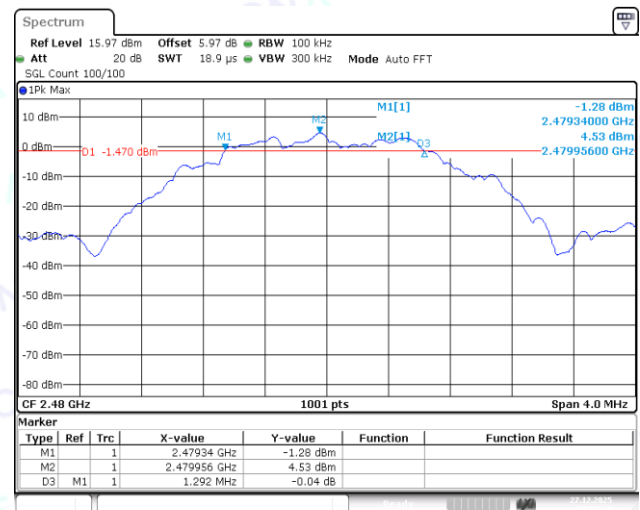
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BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



Date: 27.DEC.2025 09:52:26



Date: 27.DEC.2025 09:53:46

BLE_2M-Ant1-2440-PASS

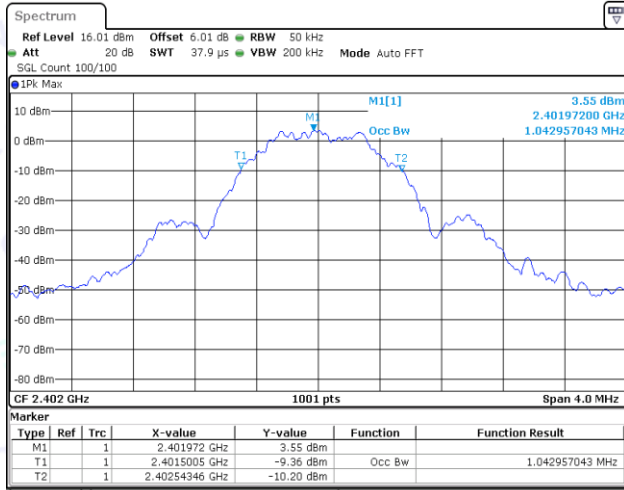
BLE_2M-Ant1-2480-PASS

2: Occupied Channel Bandwidth

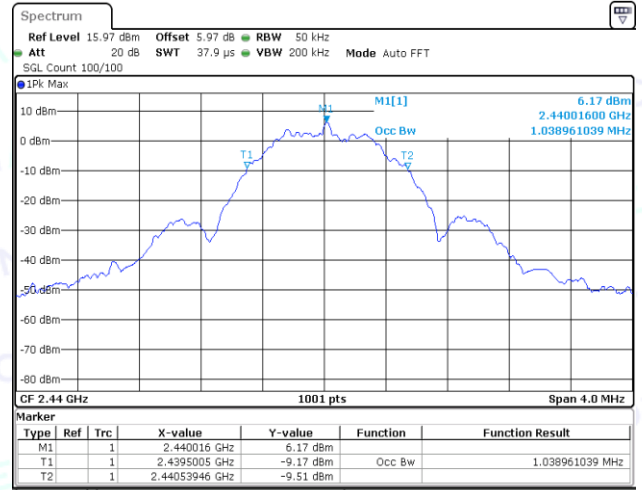
2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0430	2401.5005	2402.5435	---	---
BLE_1M	Ant1	2440	1.0390	2439.5005	2440.5395	---	---
BLE_1M	Ant1	2480	1.0430	2479.5045	2480.5475	---	---
BLE_2M	Ant1	2402	2.0420	2401.0090	2403.0509	---	---
BLE_2M	Ant1	2440	2.0380	2439.0130	2441.0509	---	---
BLE_2M	Ant1	2480	2.0380	2479.0210	2481.0589	---	---

2.2 Test Graphs

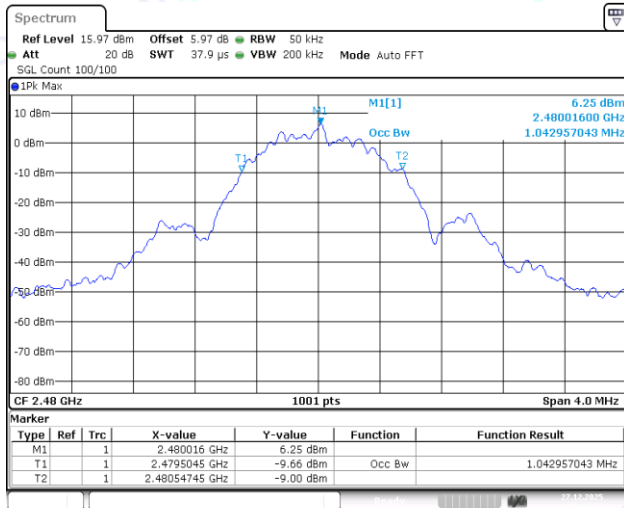


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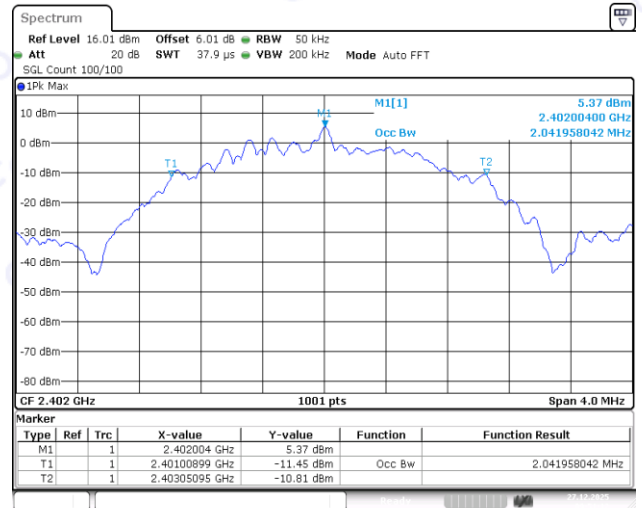
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BLE_1M-Ant1-2402



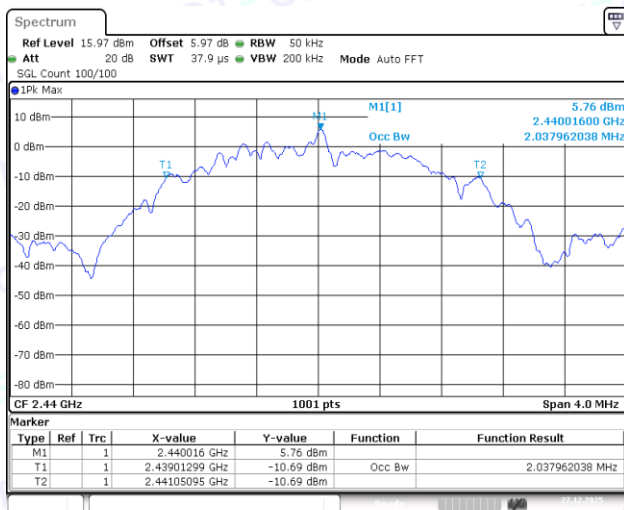
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BLE_1M-Ant1-2440



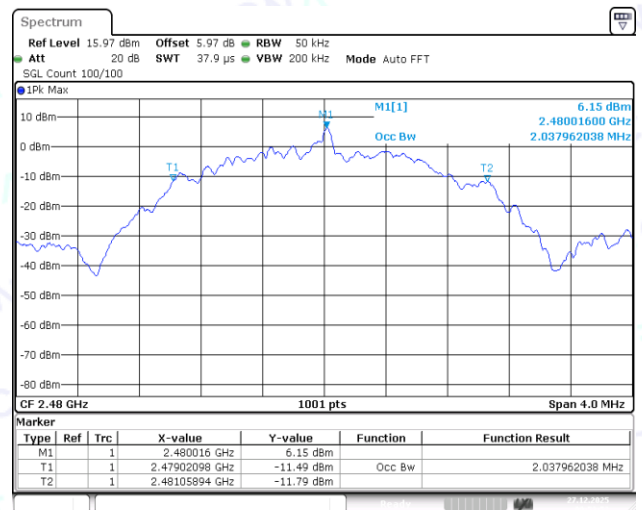
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BLE_1M-Ant1-2480



Date: 27.DEC.2025 09:52:32

BLE_2M-Ant1-2402



Date: 27.DEC.2025 09:53:51

BLE_2M-Ant1-2440

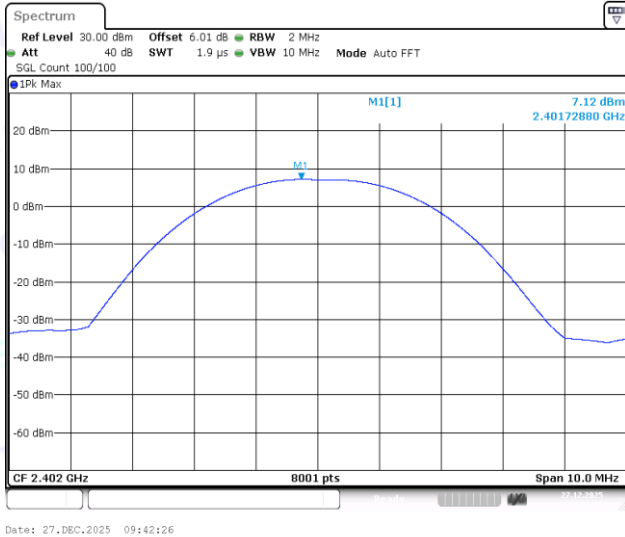
BLE_2M-Ant1-2480

3: Maximum conducted output power

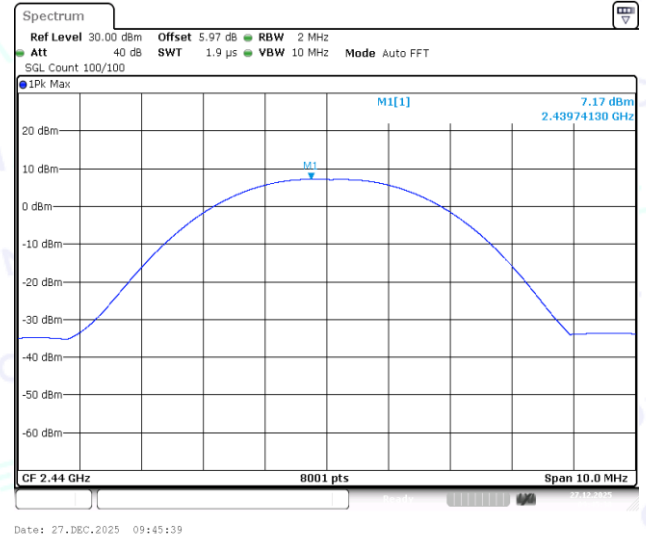
3.1 Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Gain [dBi]	EIRP[dBm]	EIRP Limit[dBm]	Verdict	
BLE_1M	Ant1	2402	7.12	≤30	-2.53	4.59	≤36	PASS	
BLE_1M	Ant1	2440	7.17	≤30	-2.53	4.64	≤36	PASS	
BLE_1M	Ant1	2480	6.99	≤30	-2.53	4.46	≤36	PASS	
BLE_2M	Ant1	2402	7.17	≤30	-2.53	4.64	≤36	PASS	
BLE_2M	Ant1	2440	7.24	≤30	-2.53	4.71	≤36	PASS	
BLE_2M	Ant1	2480	7.09	≤30	-2.53	4.56	≤36	PASS	

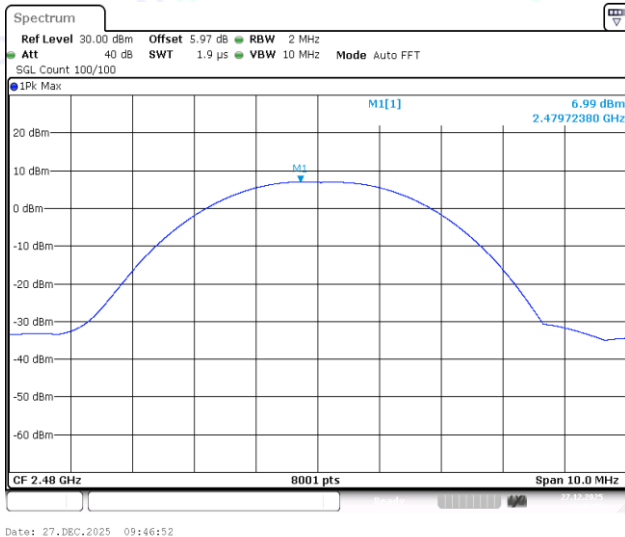
3.2 Test Graphs Peak



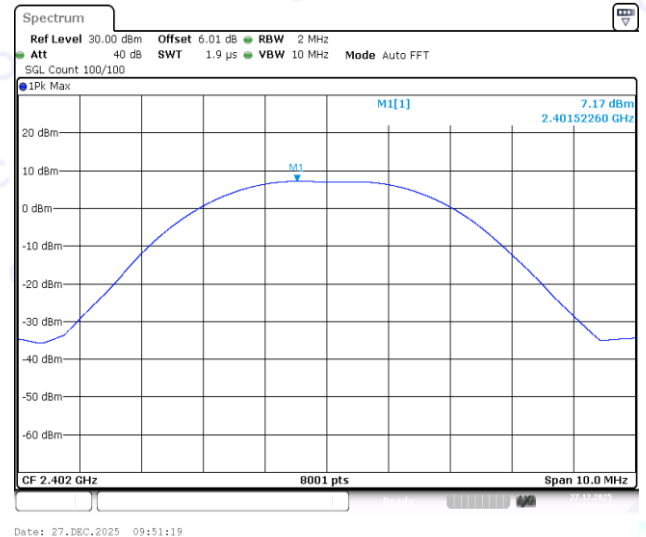
BLE_1M-Ant1-2402-PASS



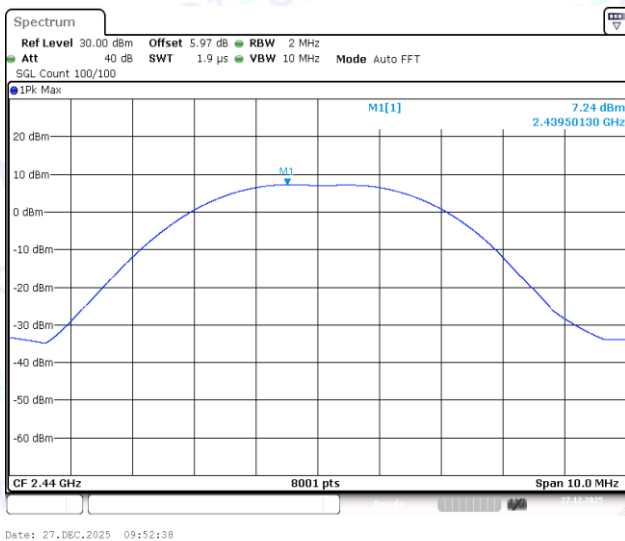
BLE_1M-Ant1-2440-PASS



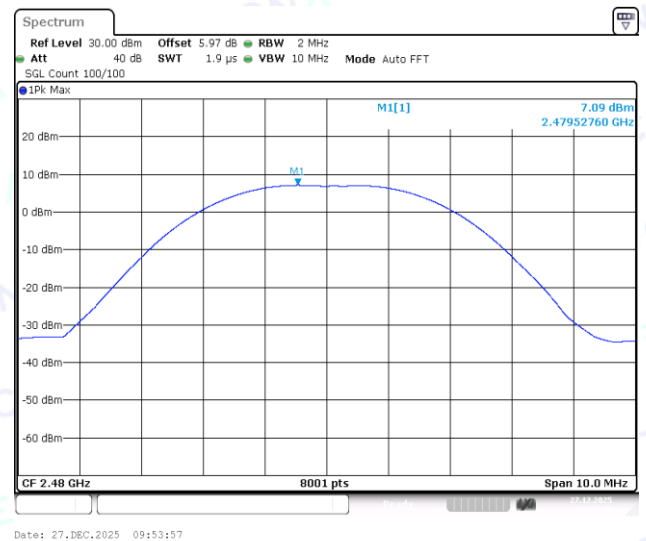
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



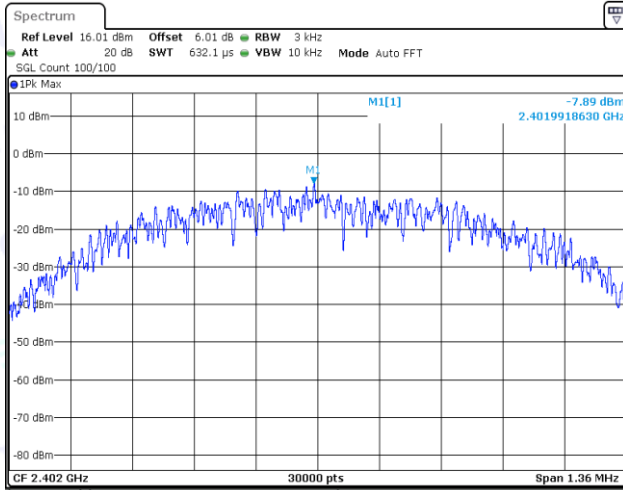
BLE_2M-Ant1-2480-PASS

4: Maximum power spectral density

4.1 Test Result

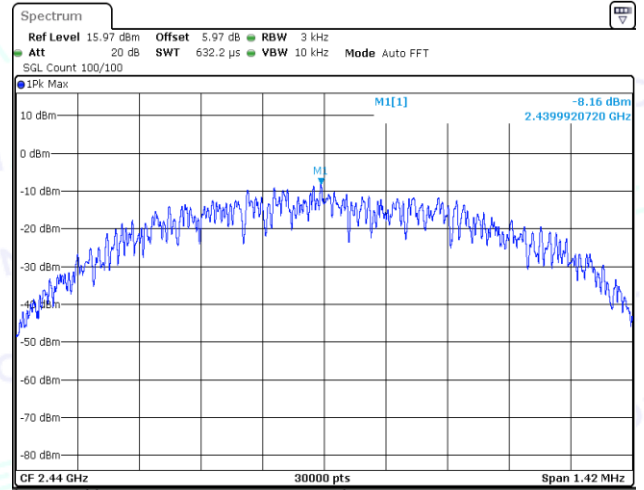
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.89	≤8.00	PASS
BLE_1M	Ant1	2440	-8.16	≤8.00	PASS
BLE_1M	Ant1	2480	-8.41	≤8.00	PASS
BLE_2M	Ant1	2402	-10.58	≤8.00	PASS
BLE_2M	Ant1	2440	-10.76	≤8.00	PASS
BLE_2M	Ant1	2480	-10.86	≤8.00	PASS

4.2 Test Graphs



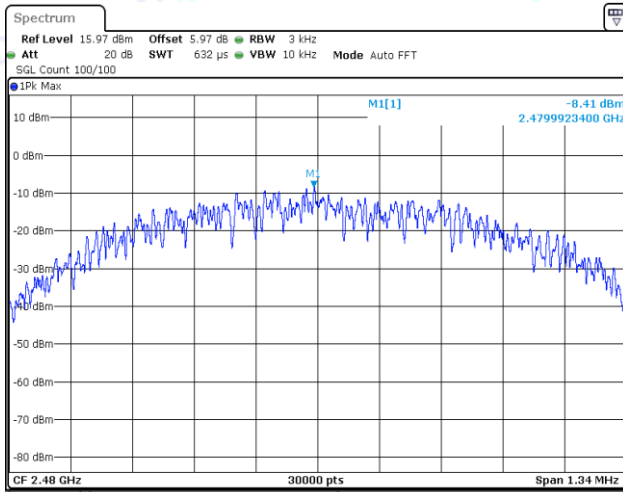
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BLE_1M-Ant1-2402-PASS



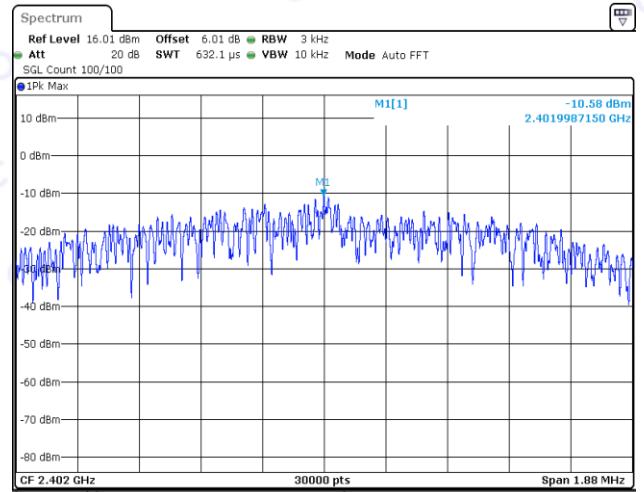
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BLE_1M-Ant1-2440-PASS



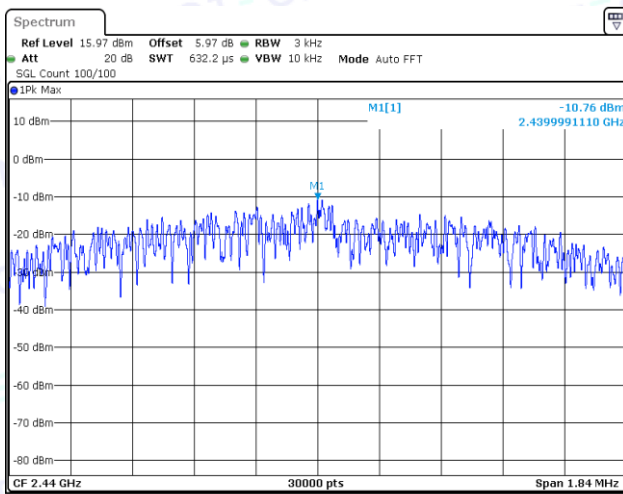
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BLE_1M-Ant1-2480-PASS



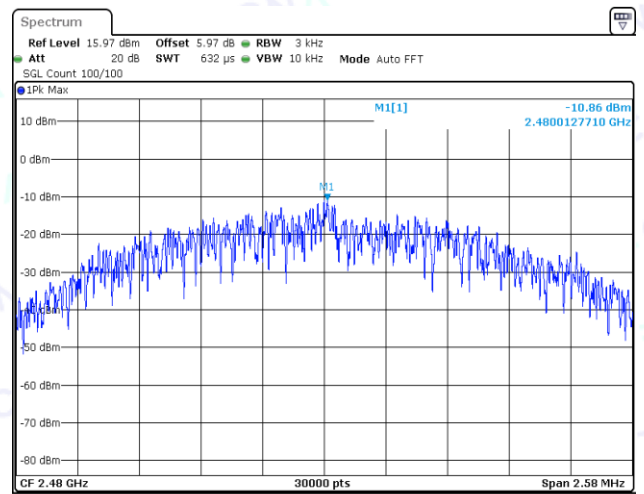
Date: 27.DEC.2025 09:51:29

BLE_2M-Ant1-2402-PASS



Date: 27.DEC.2025 09:52:47

BLE_2M-Ant1-2440-PASS



Date: 27.DEC.2025 09:54:07

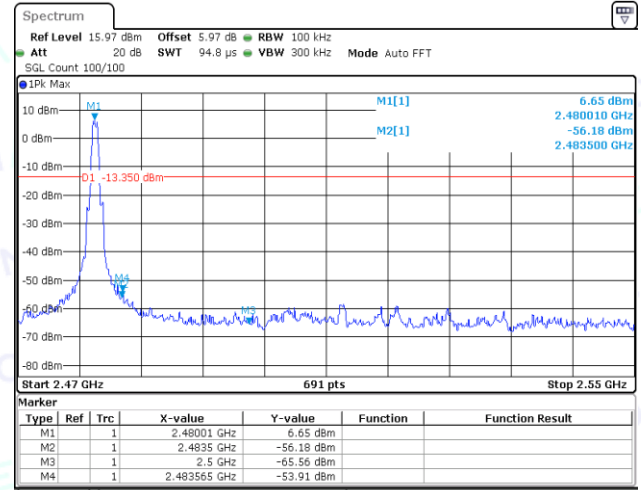
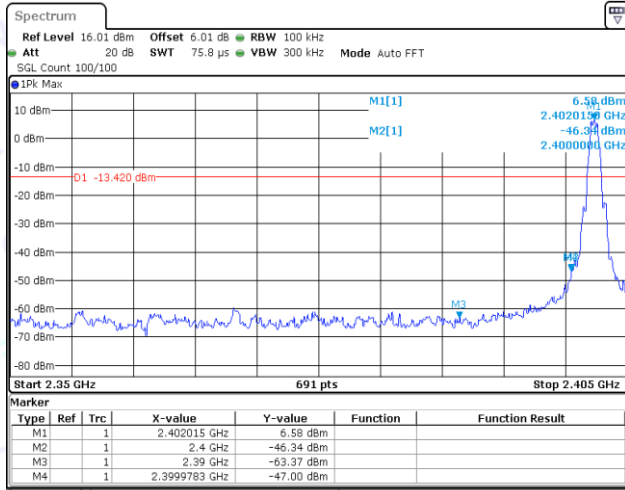
BLE_2M-Ant1-2480-PASS

5: Band edge measurements

5.1 Test Result

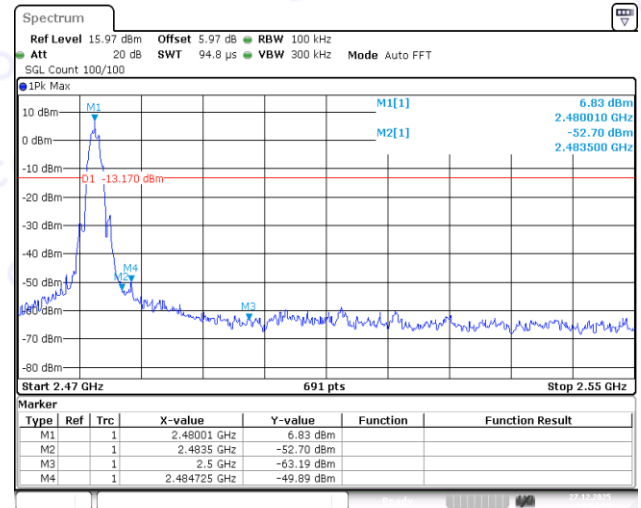
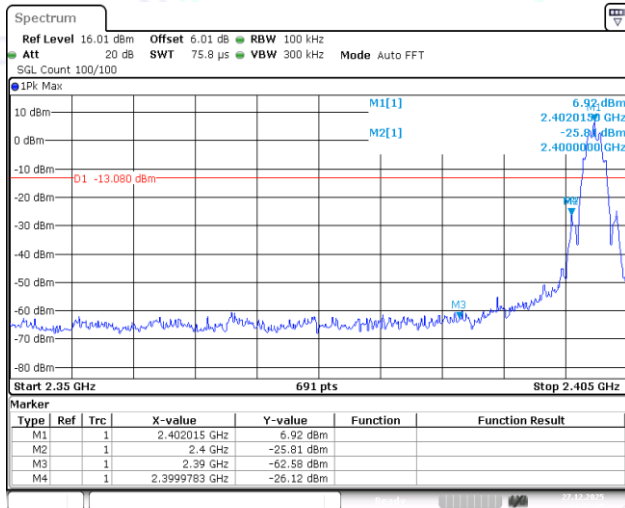
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.58	-47	≤ -13.42	PASS
BLE_1M	Ant1	High	2480	6.65	-53.91	≤ -13.35	PASS
BLE_2M	Ant1	Low	2402	6.92	-26.12	≤ -13.08	PASS
BLE_2M	Ant1	High	2480	6.83	-49.89	≤ -13.17	PASS

5.2 Test Graphs



BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

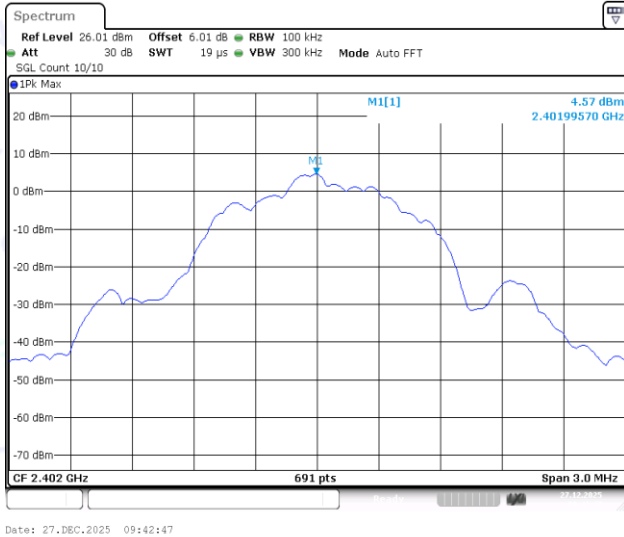
BLE_2M-Ant1-2480-PASS

6: Conducted Spurious Emission

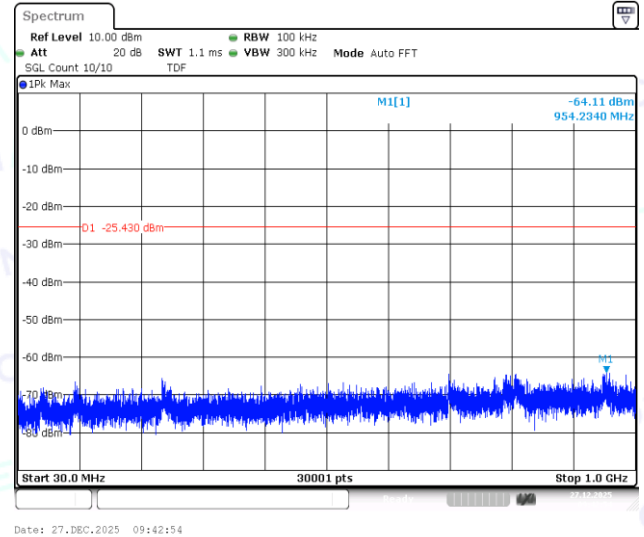
6.1 Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.57	4.57	---	PASS
BLE_1M	Ant1	2402	30~1000	4.57	-64.11	≤-25.43	PASS
BLE_1M	Ant1	2402	1000~26500	4.57	-36.44	≤-25.43	PASS
BLE_1M	Ant1	2440	0~Reference	6.84	6.84	---	PASS
BLE_1M	Ant1	2440	30~1000	6.84	-63.46	≤-23.16	PASS
BLE_1M	Ant1	2440	1000~26500	6.84	-37.16	≤-23.16	PASS
BLE_1M	Ant1	2480	0~Reference	4.44	4.44	---	PASS
BLE_1M	Ant1	2480	30~1000	4.44	-62.63	≤-25.56	PASS
BLE_1M	Ant1	2480	1000~26500	4.44	-35	≤-25.56	PASS
BLE_2M	Ant1	2402	0~Reference	2.48	2.48	---	PASS
BLE_2M	Ant1	2402	30~1000	2.48	-63.18	≤-27.52	PASS
BLE_2M	Ant1	2402	1000~26500	2.48	-39.95	≤-27.52	PASS
BLE_2M	Ant1	2440	0~Reference	6.99	6.99	---	PASS
BLE_2M	Ant1	2440	30~1000	6.99	-63.52	≤-23.01	PASS
BLE_2M	Ant1	2440	1000~26500	6.99	-39	≤-23.01	PASS
BLE_2M	Ant1	2480	0~Reference	2.83	2.83	---	PASS
BLE_2M	Ant1	2480	30~1000	2.83	-61.01	≤-27.17	PASS
BLE_2M	Ant1	2480	1000~26500	2.83	-34.71	≤-27.17	PASS

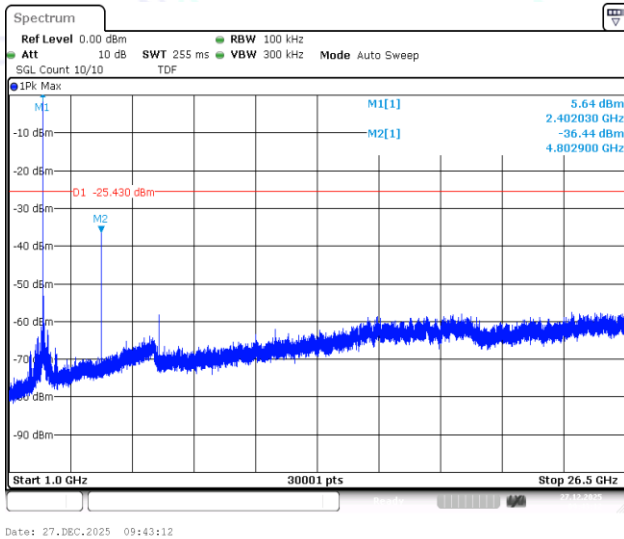
6.2 Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



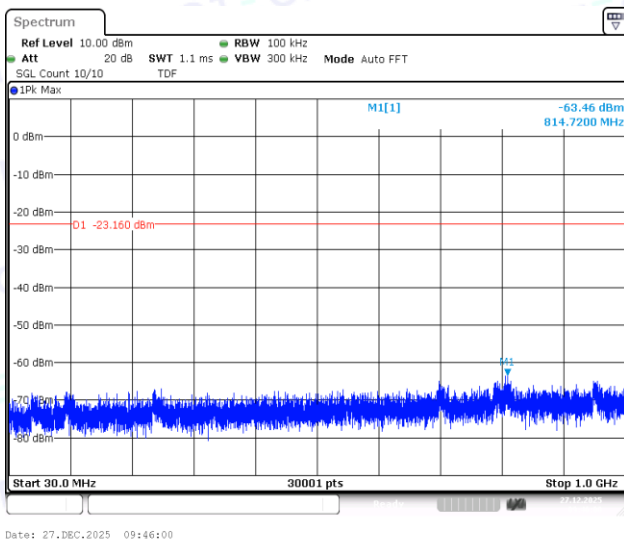
BLE_1M-Ant1-2402-30~1000-PASS



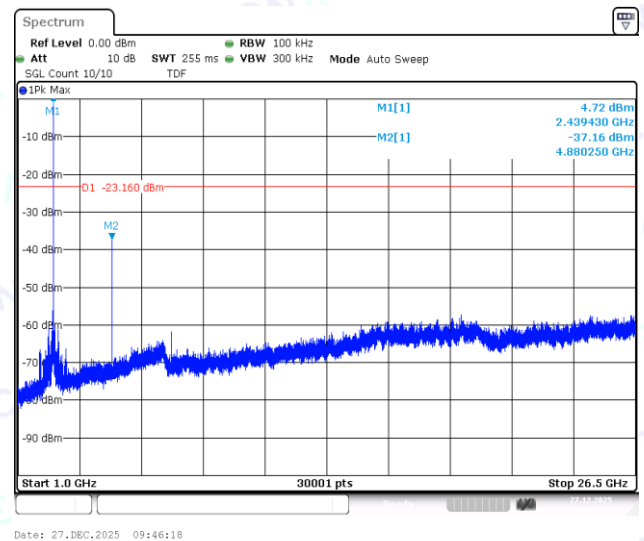
BLE_1M-Ant1-2402-1000~26500-PASS



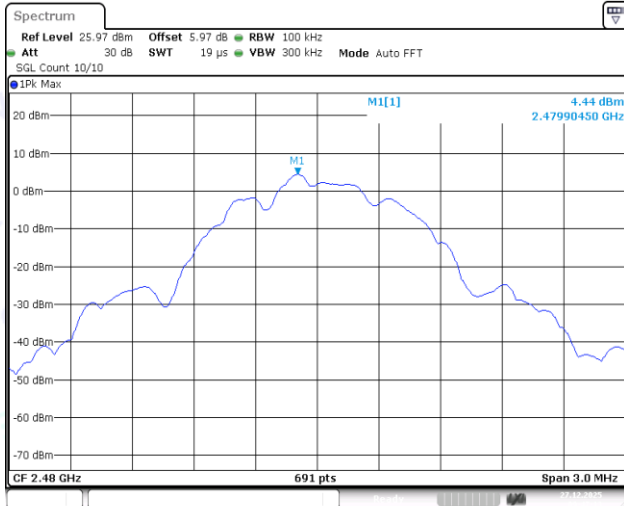
BLE_1M-Ant1-2440-0~Reference-PASS



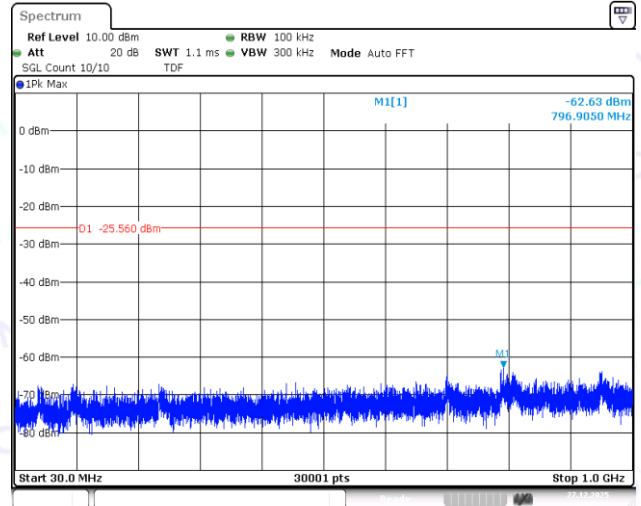
BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS



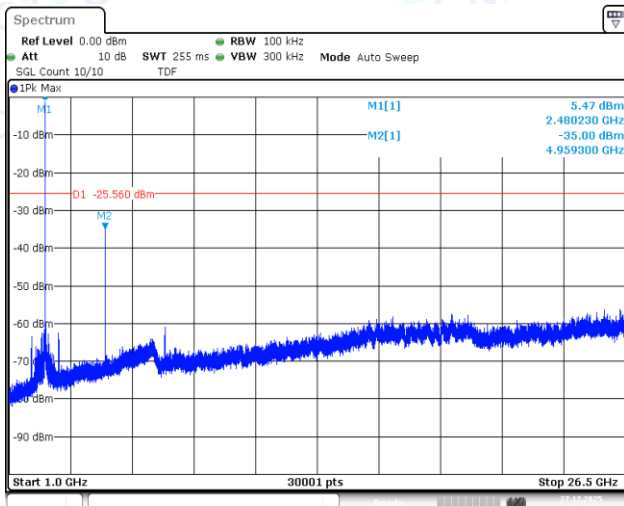
Date: 27.DEC.2025 09:47:13



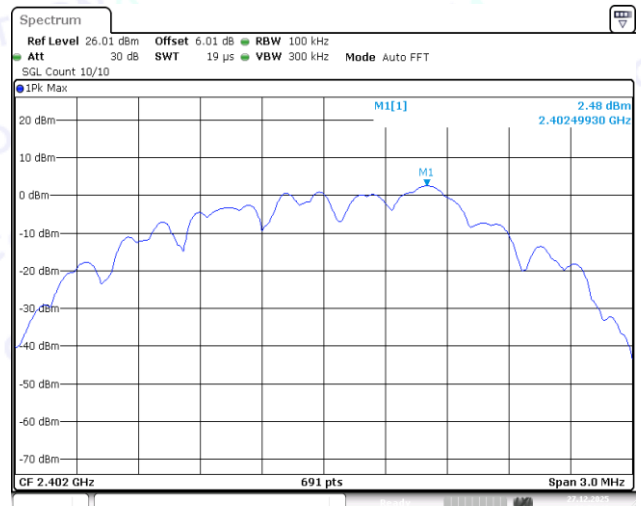
Date: 27.DEC.2025 09:47:21

BLE_1M-Ant1-2480-0~Reference-PASS

BLE_1M-Ant1-2480-30~1000-PASS



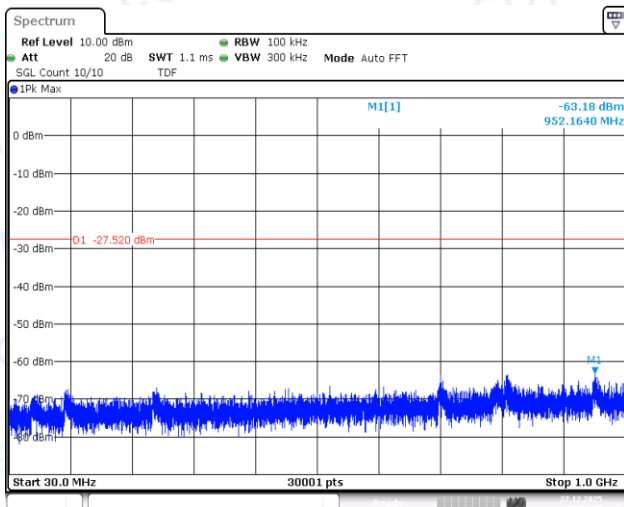
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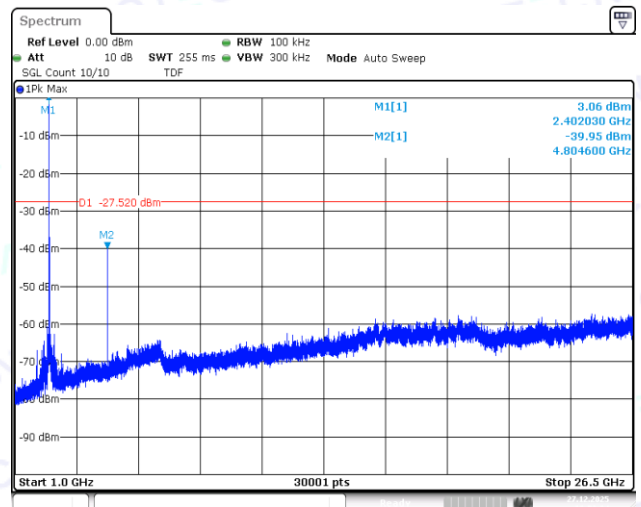
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BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS



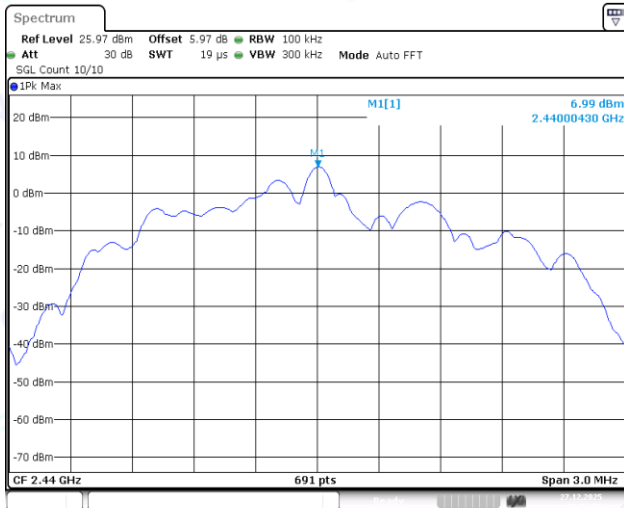
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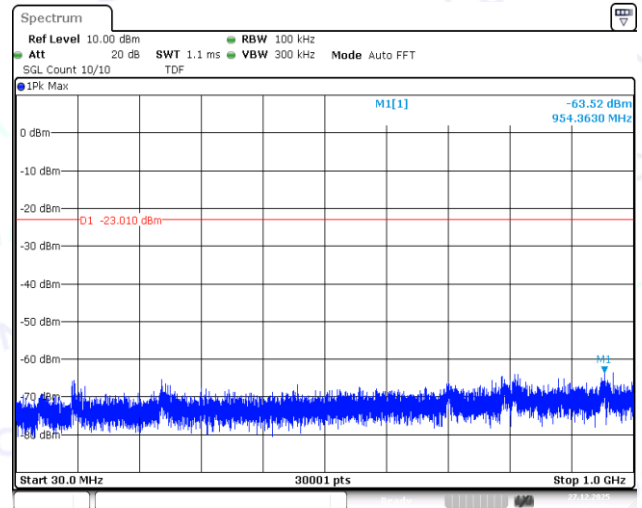
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BLE_2M-Ant1-2402-30~1000-PASS

BLE_2M-Ant1-2402-1000~26500-PASS



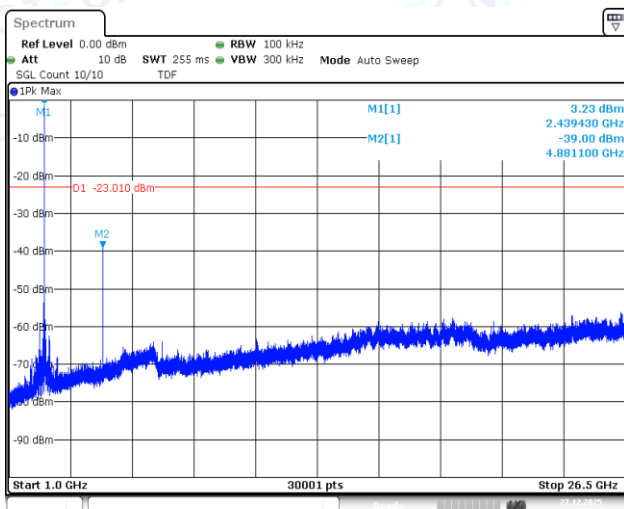
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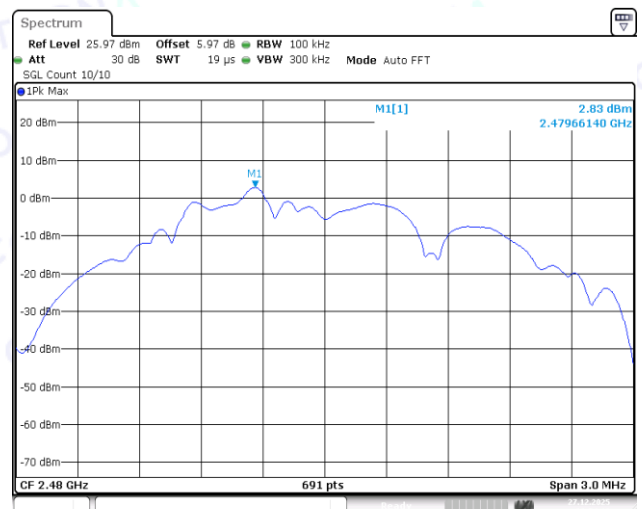
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BLE_2M-Ant1-2440-0~Reference-PASS

BLE_2M-Ant1-2440-30~1000-PASS



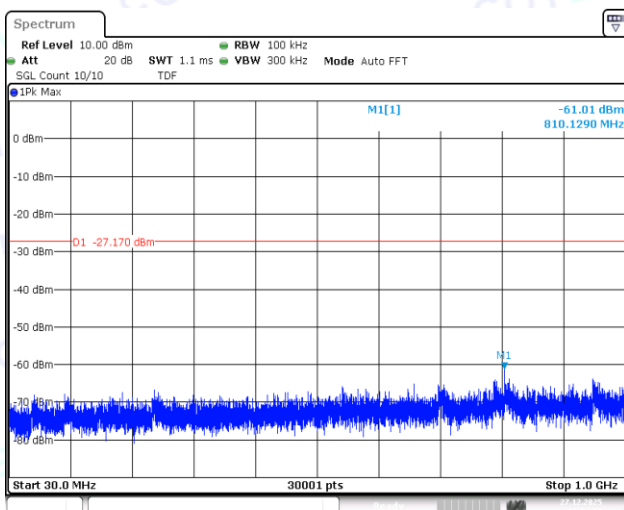
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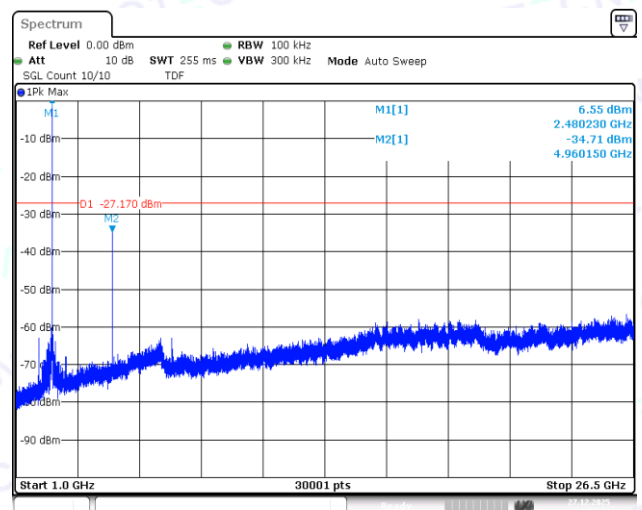
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BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS



Date: 27.DEC.2025 09:54:27



Date: 27.DEC.2025 09:54:44

BLE_2M-Ant1-2480-30~1000-PASS

BLE_2M-Ant1-2480-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

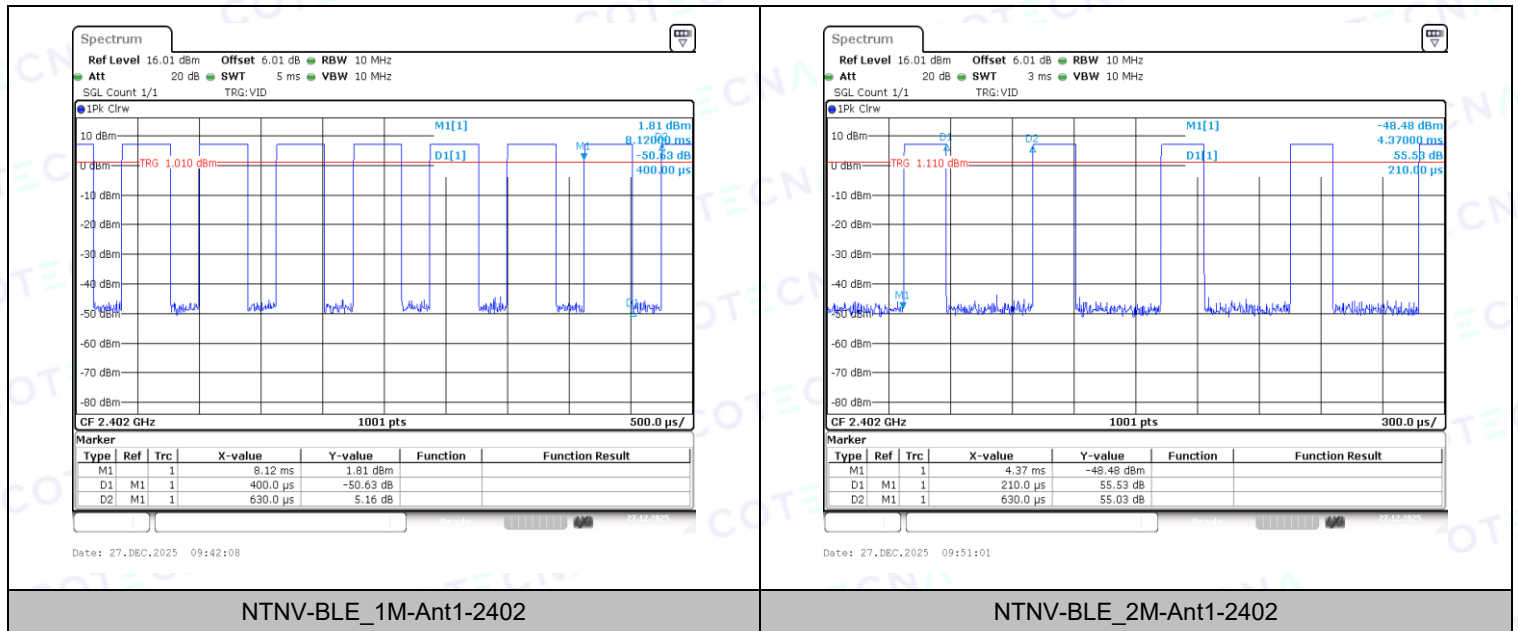
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97	2.50
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77	4.76

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factor= $10 \cdot \log_{10}(1/\text{Duty Cycle})$

3, $1/T = 1/\text{Transmission Duration}$

7.2 Test Graphs



-----END OF THE REPORT-----