

Appendix for Test report

1. Appendix A: DTS Bandwidth

1.1 Test Result

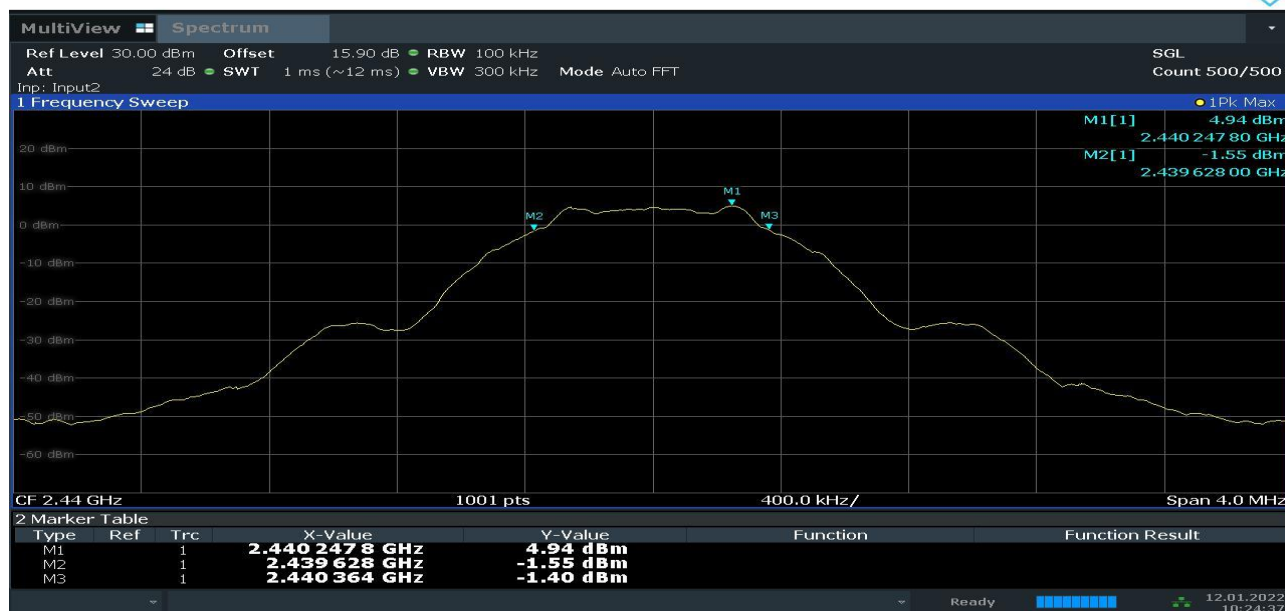
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_TM1	Ant1	2402	0.708	2401.644	2402.352	≥0.5	PASS
		2440	0.736	2439.628	2440.364	≥0.5	PASS
		2480	0.72	2479.636	2480.356	≥0.5	PASS
BLE_TM2	Ant1	2402	1.176	2401.412	2402.588	≥0.5	PASS
		2440	1.232	2439.356	2440.588	≥0.5	PASS
		2480	1.24	2479.348	2480.588	≥0.5	PASS

1.2 Test Graphs

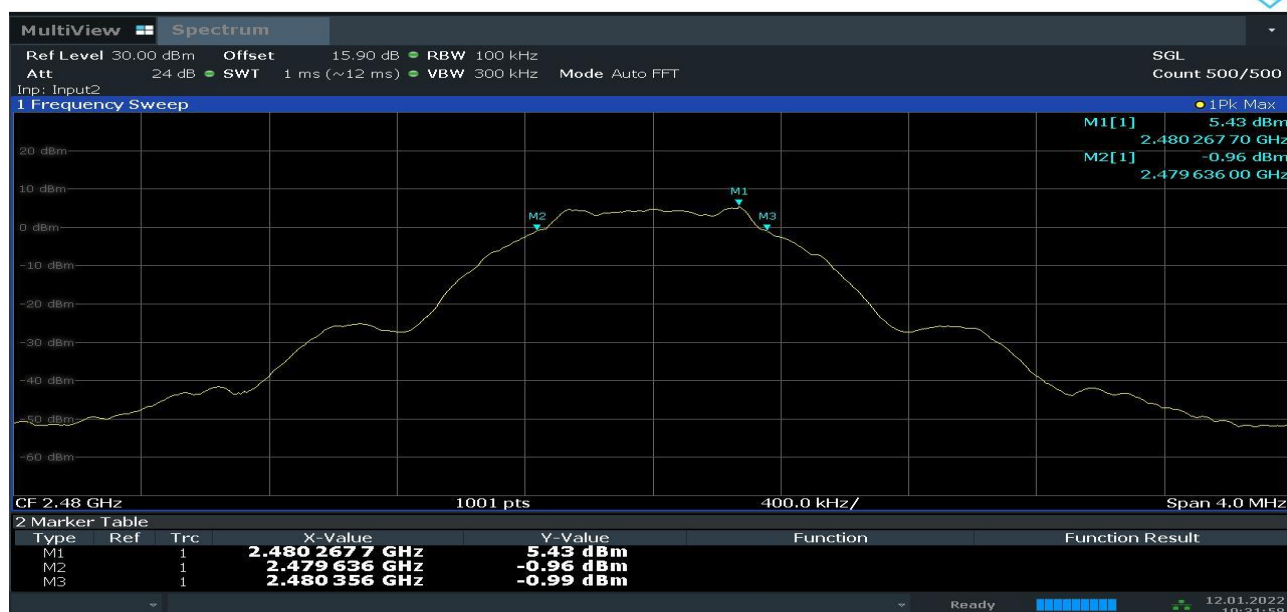
BLE_TM1_Ant1_2402



BLE_TM1_Ant1_2440

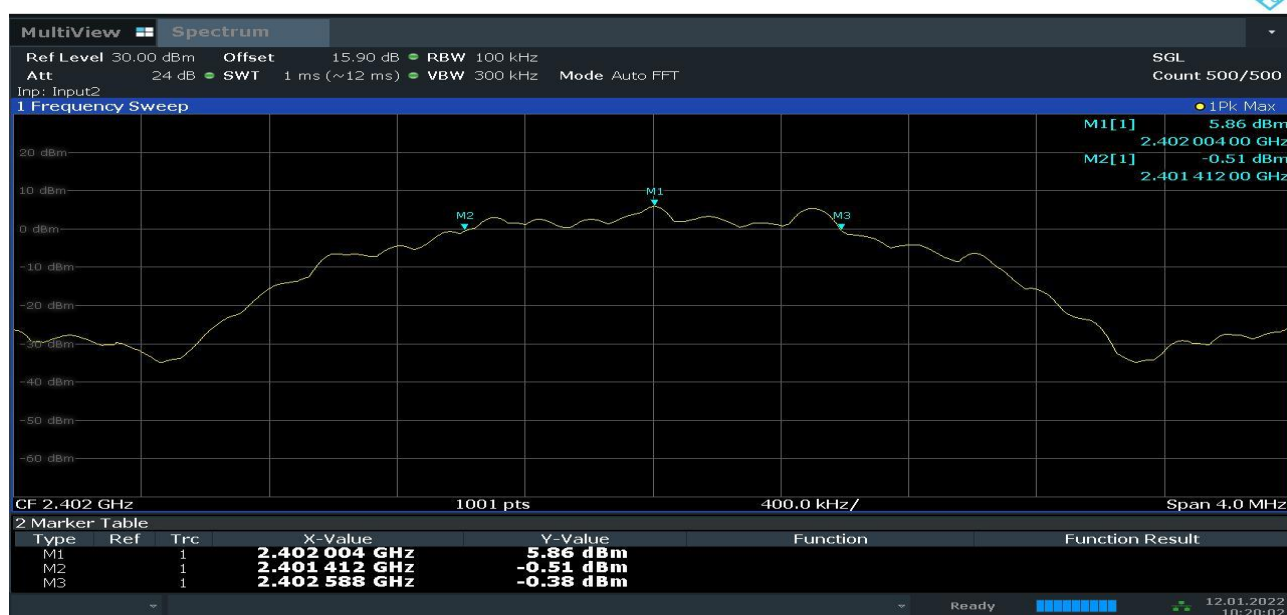


BLE_TM1_Ant1_2480



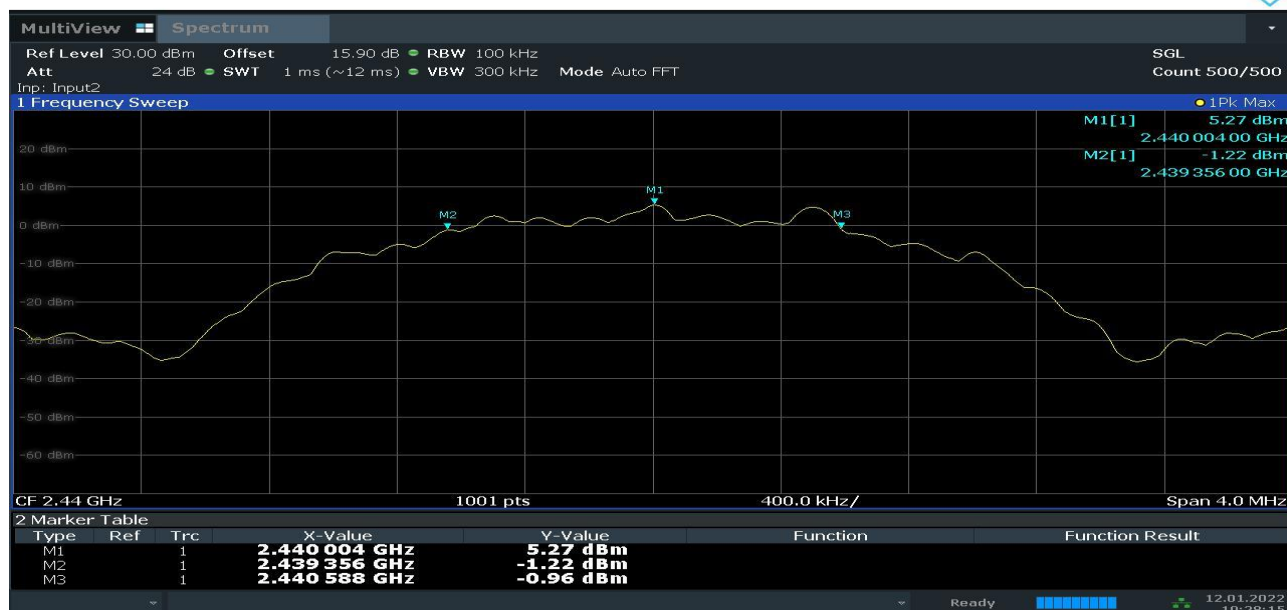
10:31:59 12.01.2022

BLE_TM2_Ant1_2402

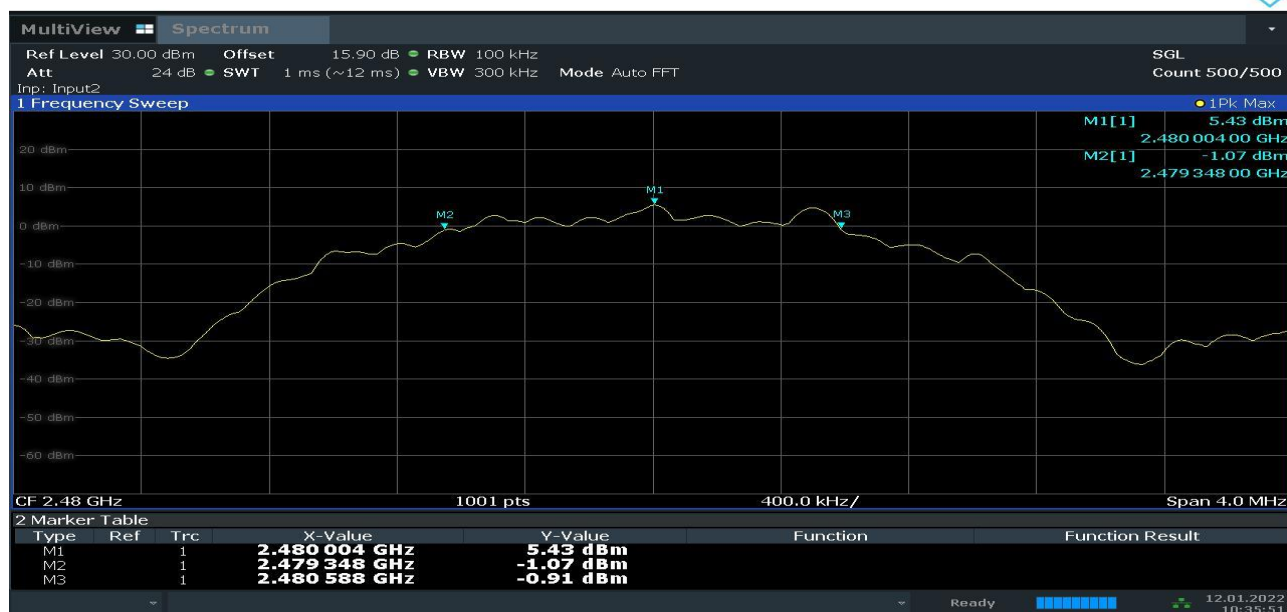


10:20:03 12.01.2022

BLE_TM2_Ant1_2440



BLE_TM2_Ant1_2480



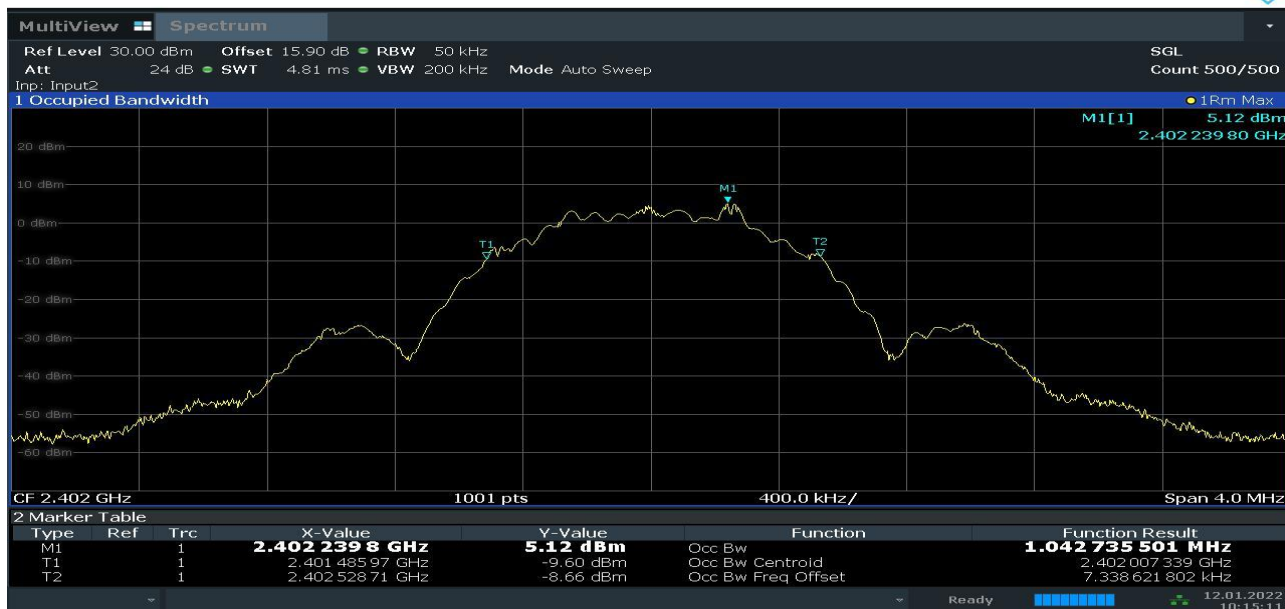
2. Appendix B: Occupied Channel Bandwidth

2.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_TM1	Ant1	2402	1.04	2401.49	2402.53	---	PASS
		2440	1.04	2439.49	2440.52	---	PASS
		2480	1.04	2479.49	2480.52	---	PASS
BLE_TM2	Ant1	2402	2.06	2400.99	2403.05	---	PASS
		2440	2.07	2438.98	2441.05	---	PASS
		2480	2.06	2478.98	2481.04	---	PASS

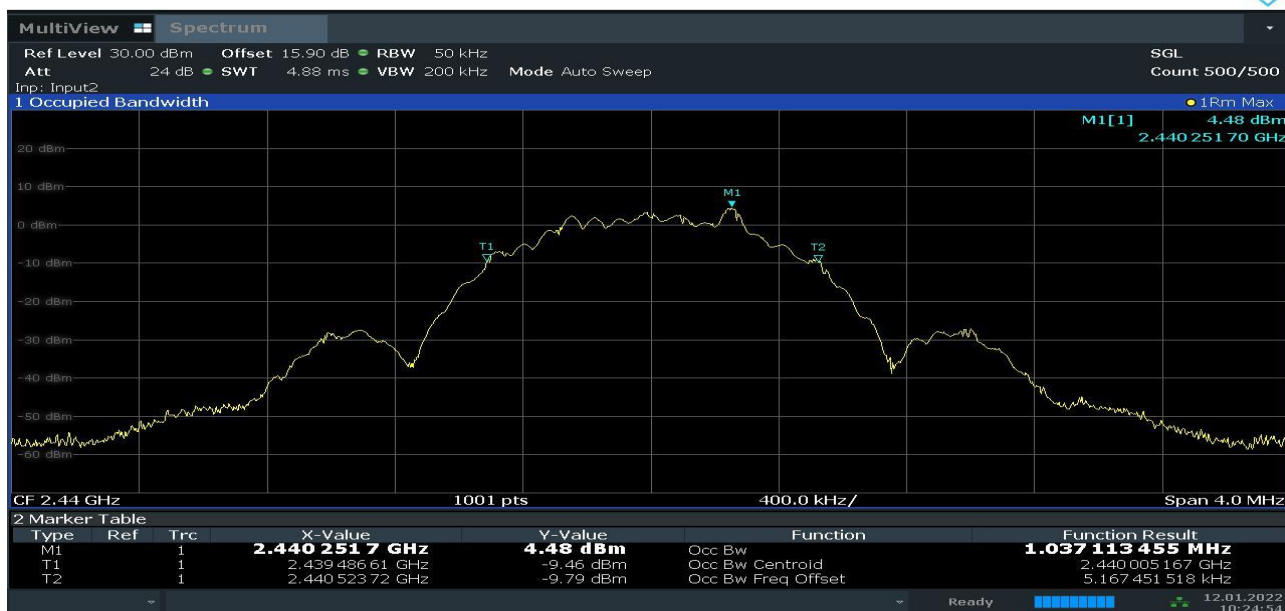
2.2 Test Graphs

BLE_TM1_Ant1_2402



10:15:12 12.01.2022

BLE_TM1_Ant1_2440



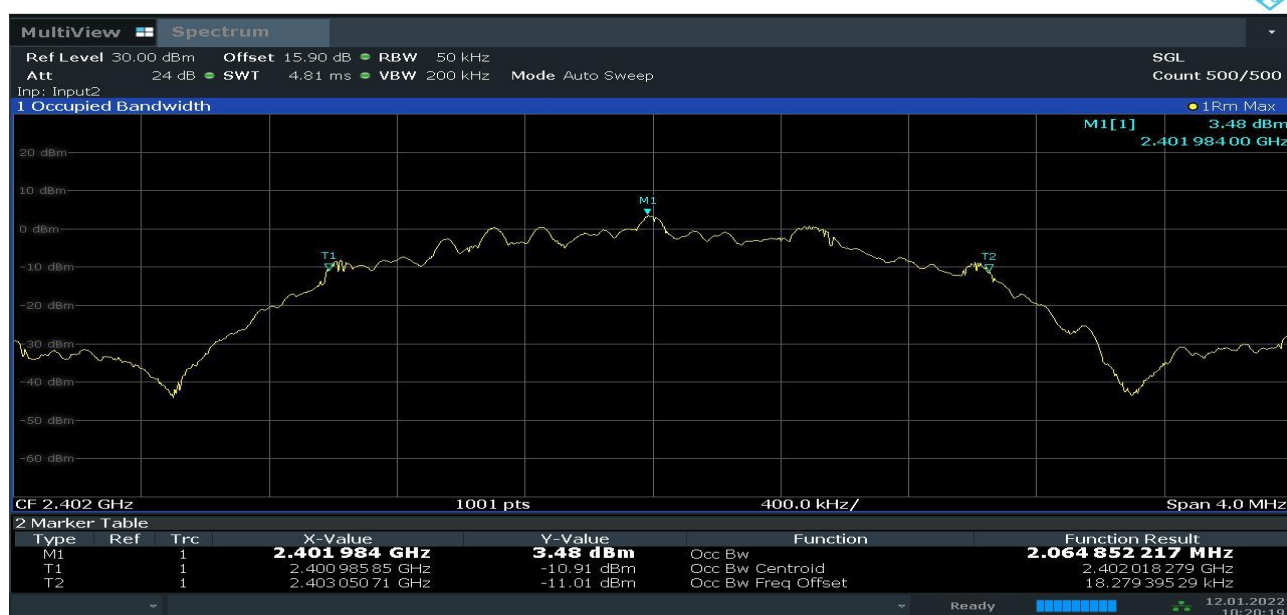
10:24:54 12.01.2022

BLE_TM1_Ant1_2480



10:32:16 12.01.2022

BLE_TM2_Ant1_2402



10:20:20 12.01.2022

BLE_TM2_Ant1_2440



10:28:32 12.01.2022

BLE_TM2_Ant1_2480



10:36:08 12.01.2022

3.Appendix C: Duty Cycle

3.1 Test Result

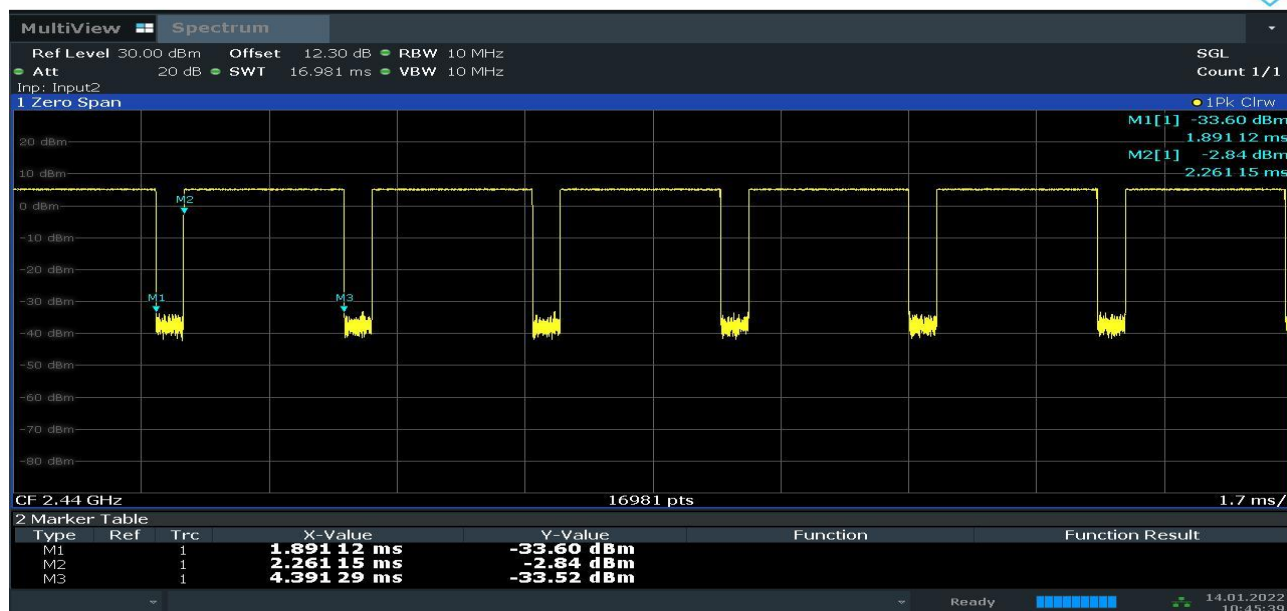
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit[MHz]	Verdict
BLE_TM1	Ant1	2402	2.13	2.5	85.2	---	PASS
		2440	2.13	2.5	85.2	---	PASS
		2480	2.13	2.5	85.2	---	PASS
BLE_TM2	Ant1	2402	1.07	1.88	56.915	---	PASS
		2440	1.07	1.88	56.915	---	PASS
		2480	1.07	1.88	56.915	---	PASS

3.2 Test Graphs

BLE_TM1_Ant1_2402



BLE_TM1_Ant1_2440

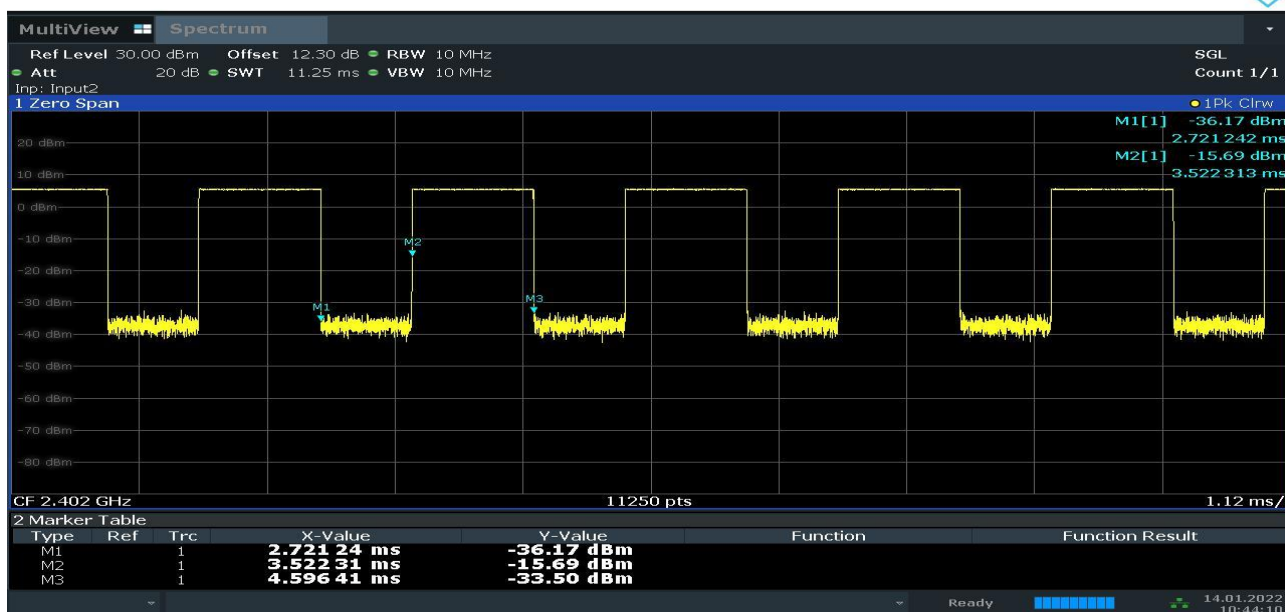


BLE_TM1_Ant1_2480



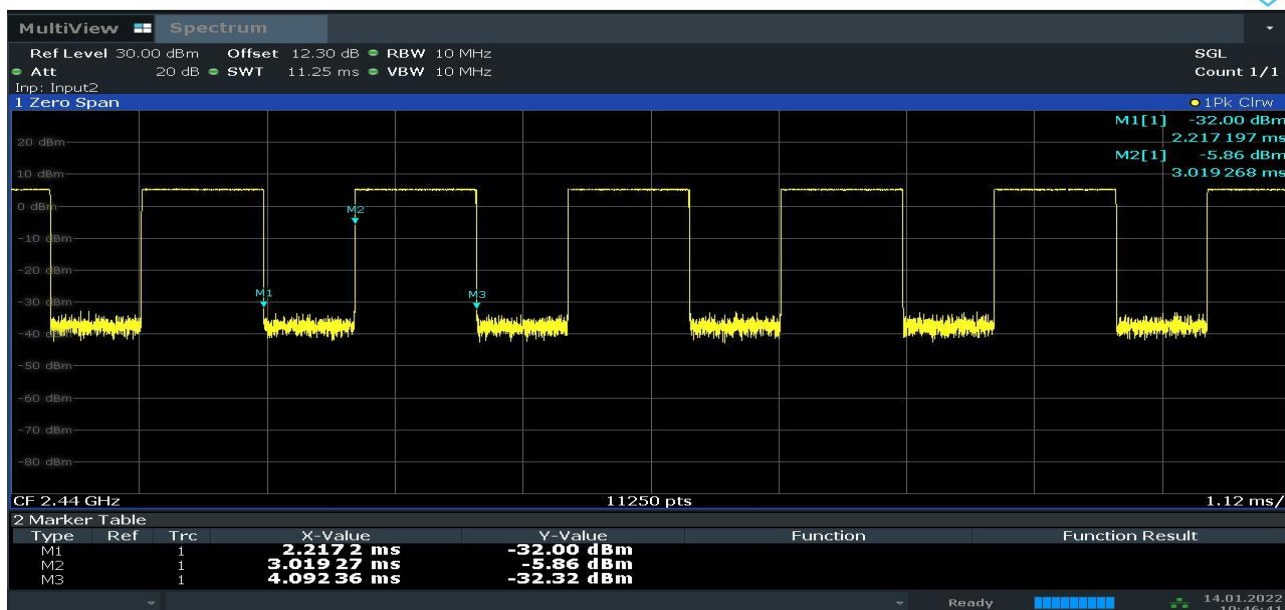
10:40:21 14.01.2022

BLE_TM2_Ant1_2402



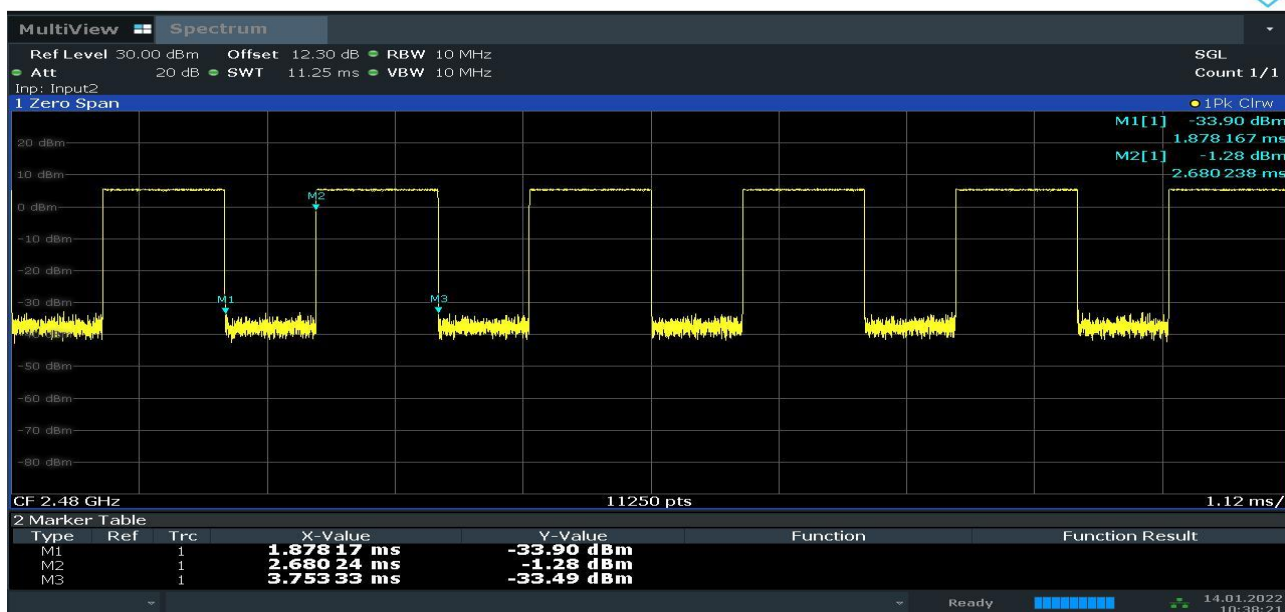
10:44:10 14.01.2022

BLE_TM2_Ant1_2440



10:46:41 14.01.2022

BLE_TM2_Ant1_2480



10:38:21 14.01.2022

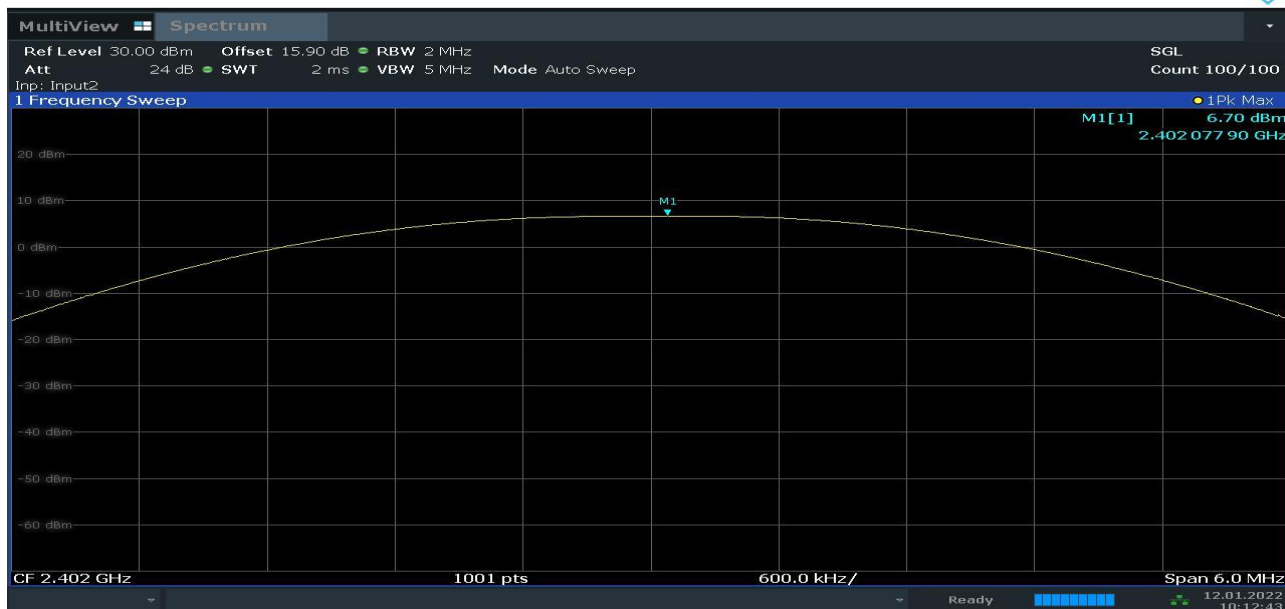
4. Appendix D: Maximum Peak output power

4.1 Test Result

TestMode	Antenna	Channel	Conducted Result[dBm]	Conducted Limit[dBm]	EIRP Result[dBm]	EIRP Result[dBm]	Verdict
BLE_TM1	Ant1	2402	6.7	30	4.4	36	PASS
		2440	6.25	30	3.95	36	PASS
		2480	6.4	30	4.1	36	PASS
BLE_TM2	Ant1	2402	6.45	30	4.15	36	PASS
		2440	6.24	30	3.94	36	PASS
		2480	5.59	30	3.29	36	PASS

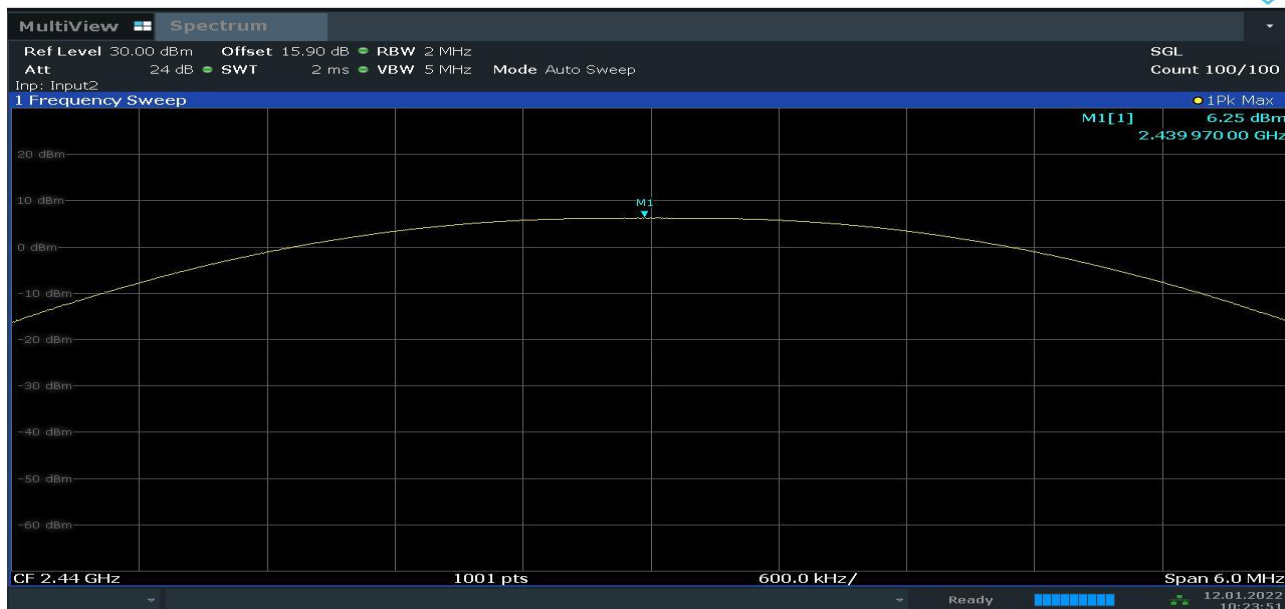
4.2 Test Graphs

BLE_TM1_Ant1_2402



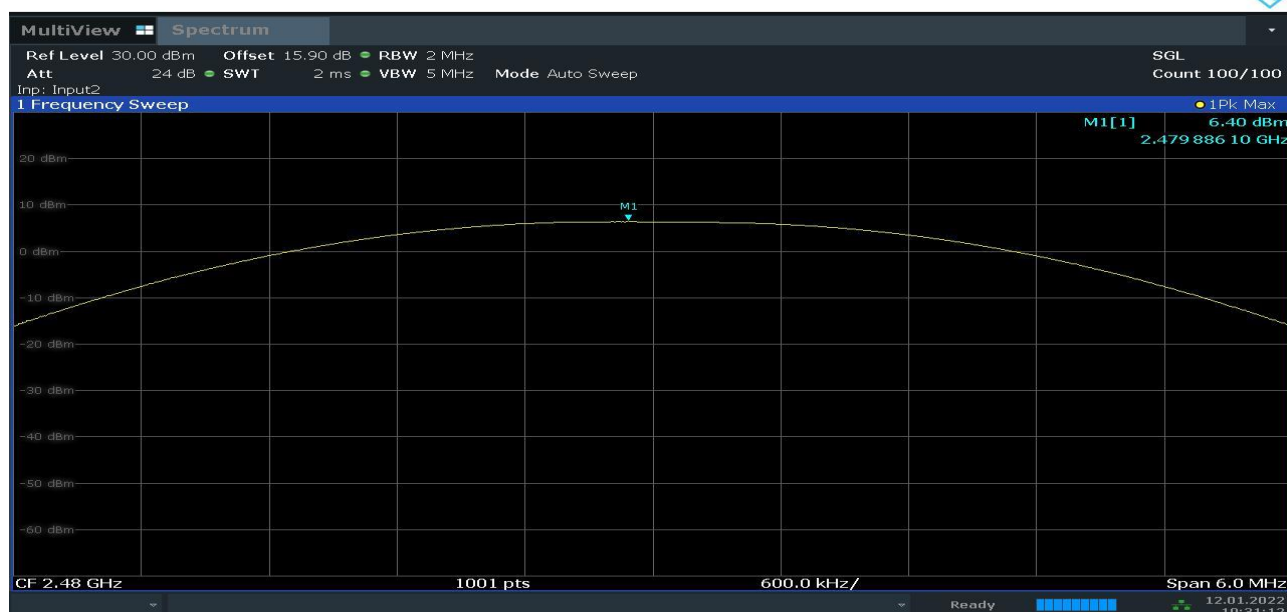
10:12:44 12.01.2022

BLE_TM1_Ant1_2440



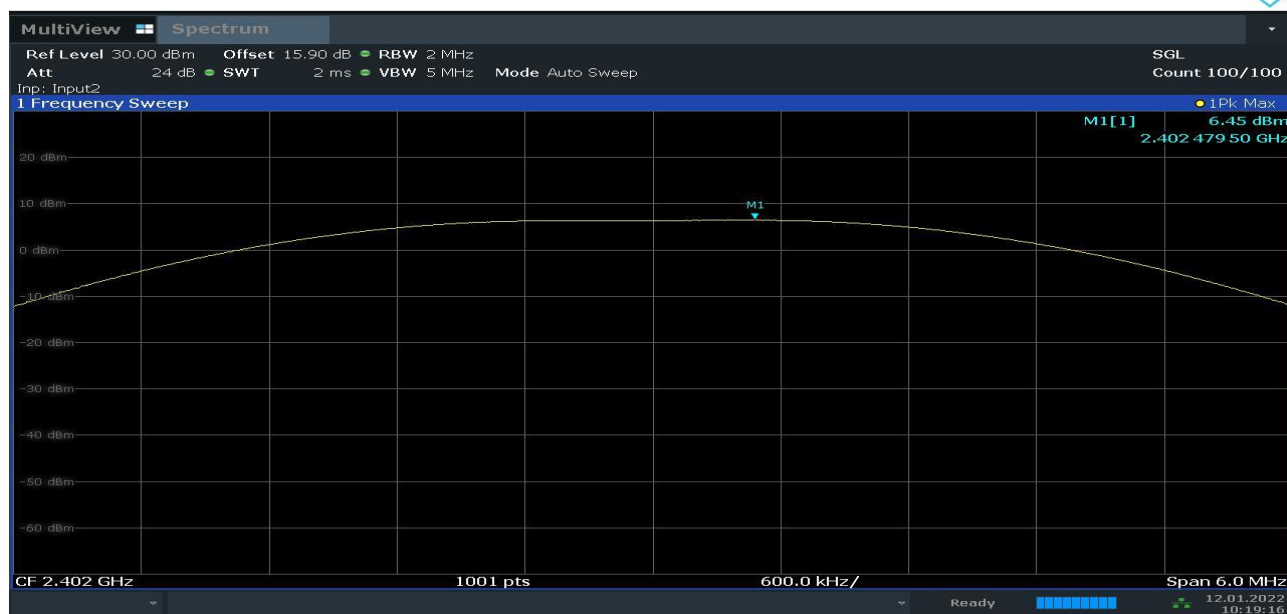
10:23:51 12.01.2022

BLE_TM1_Ant1_2480



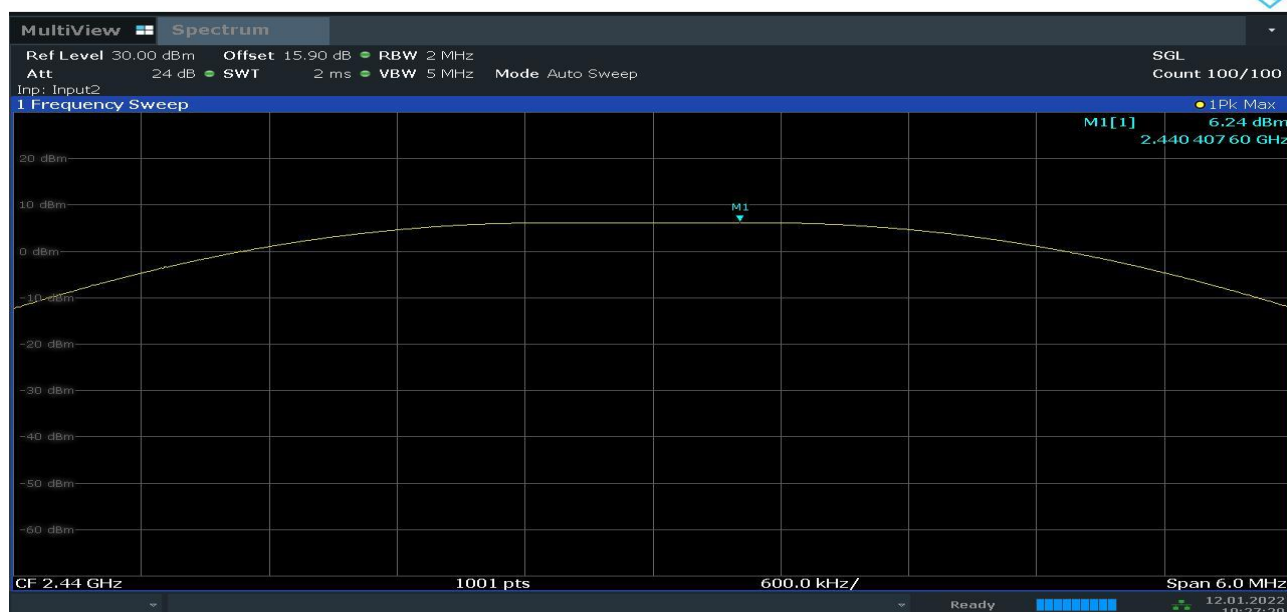
10:31:13 12.01.2022

BLE_TM2_Ant1_2402

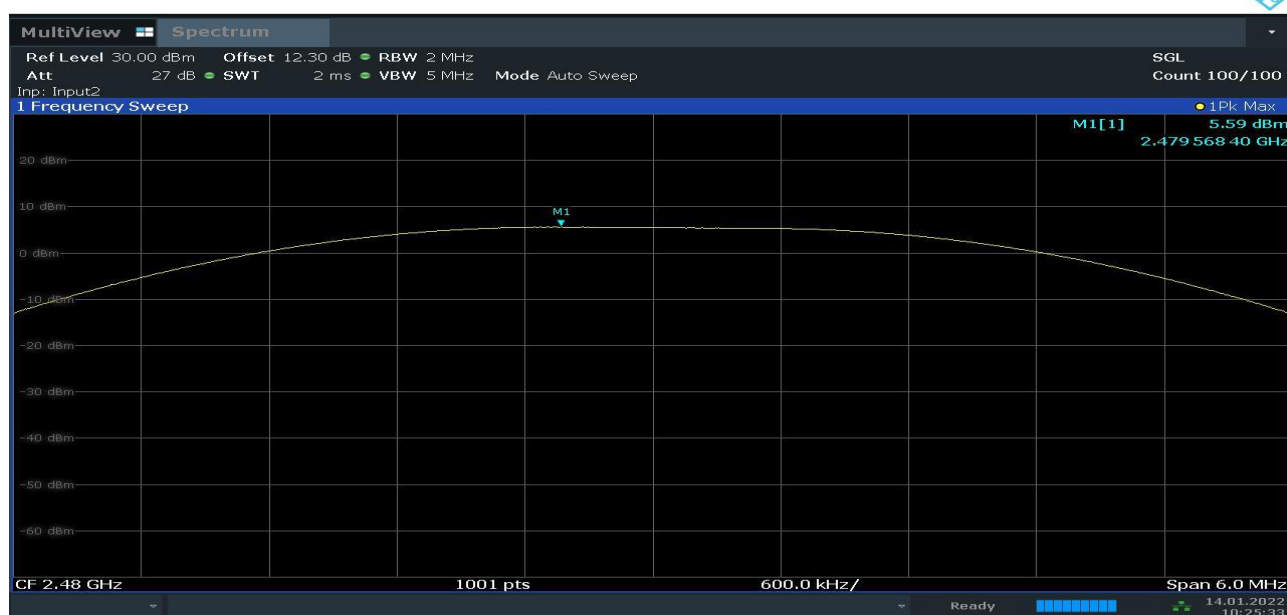


10:19:17 12.01.2022

BLE_TM2_Ant1_2440



BLE_TM2_Ant1_2480



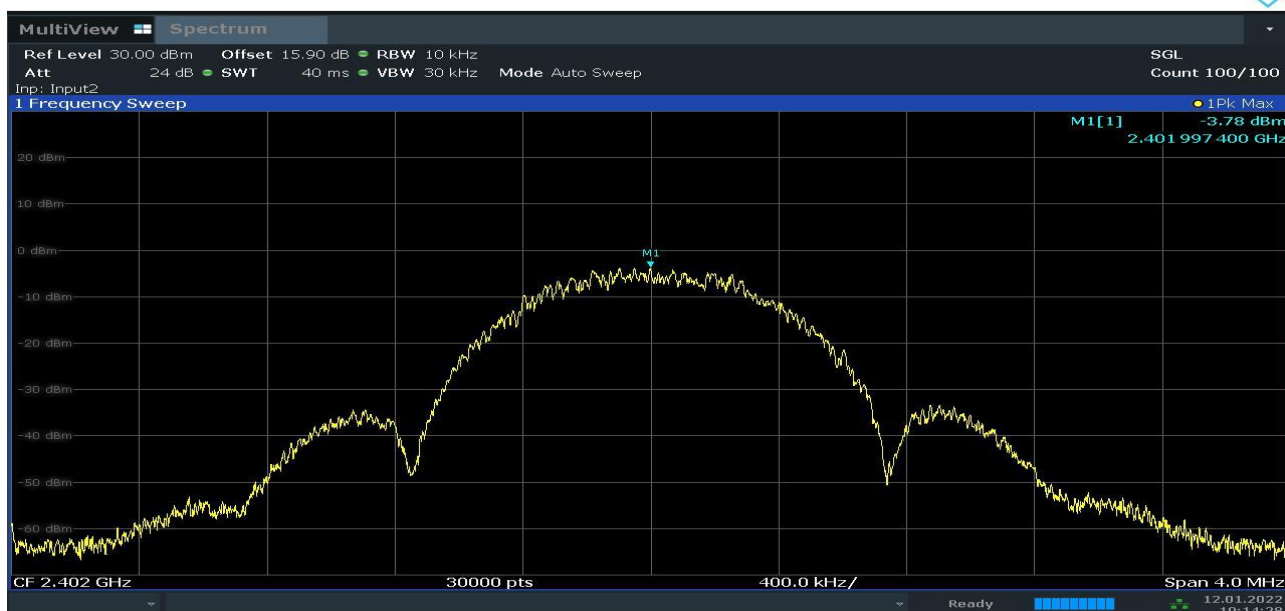
5. Appendix E: Maximum power spectral density

5.1 Test Result

TestMode	Antenna	Channel	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
BLE_TM1	Ant1	2402	-3.78	<=8	PASS
		2440	-4.9	<=8	PASS
		2480	-4.54	<=8	PASS
BLE_TM2	Ant1	2402	-6.91	<=8	PASS
		2440	-7.66	<=8	PASS
		2480	-8.25	<=8	PASS

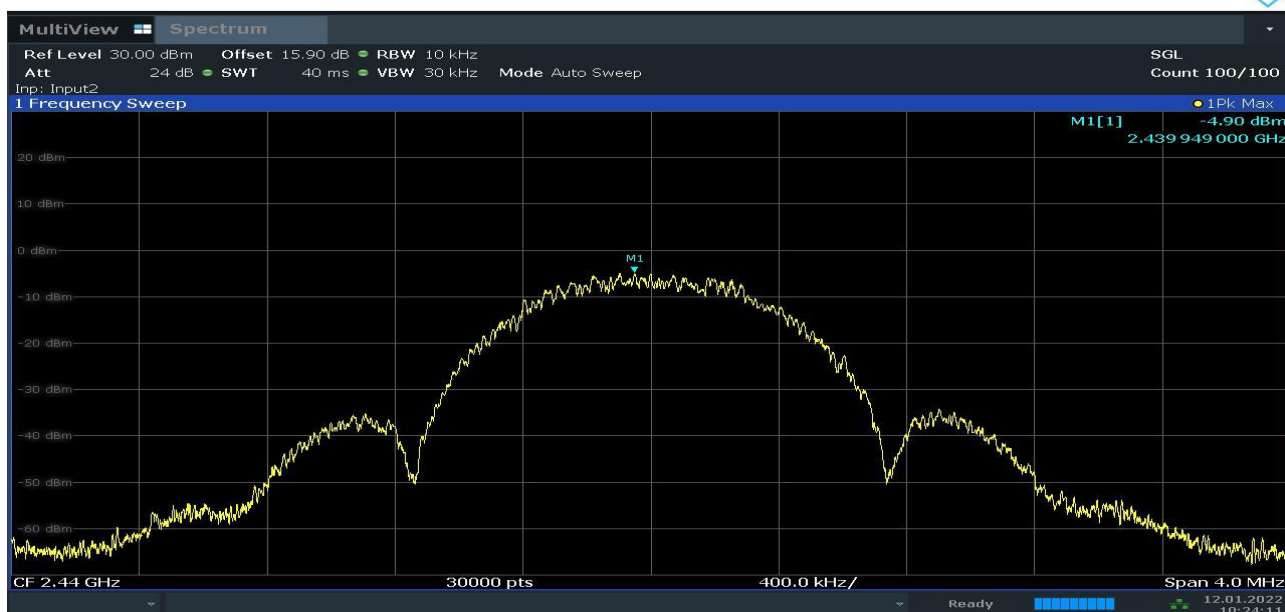
5.2 Test Graphs

BLE_TM1_Ant1_2402



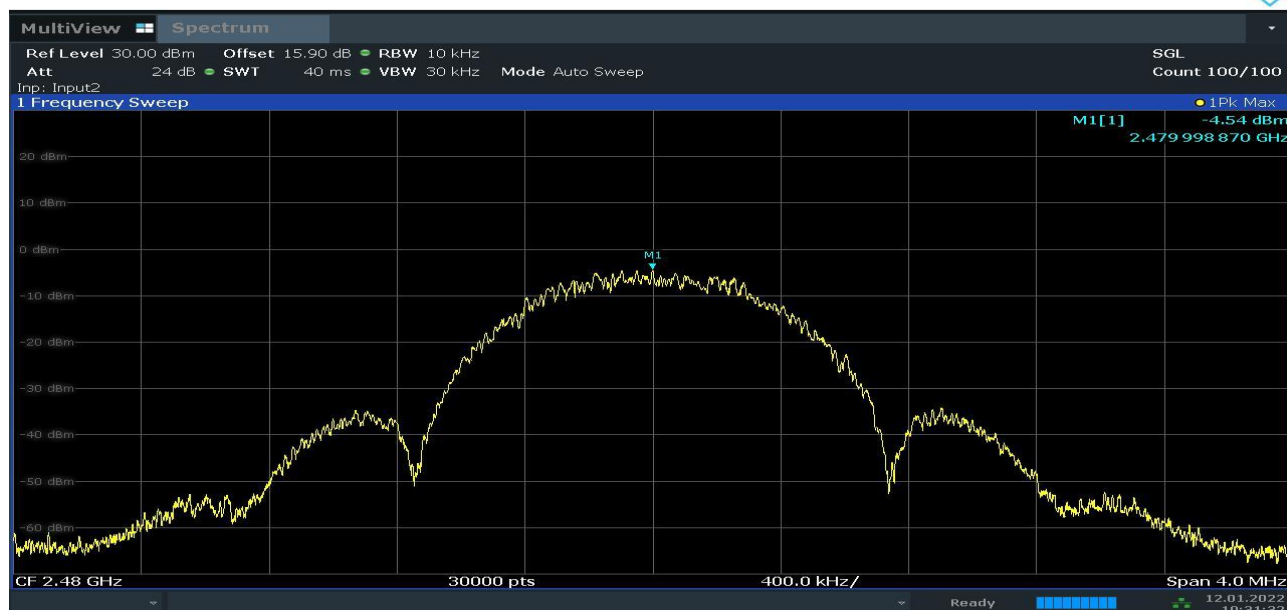
10:14:29 12.01.2022

BLE_TM1_Ant1_2440



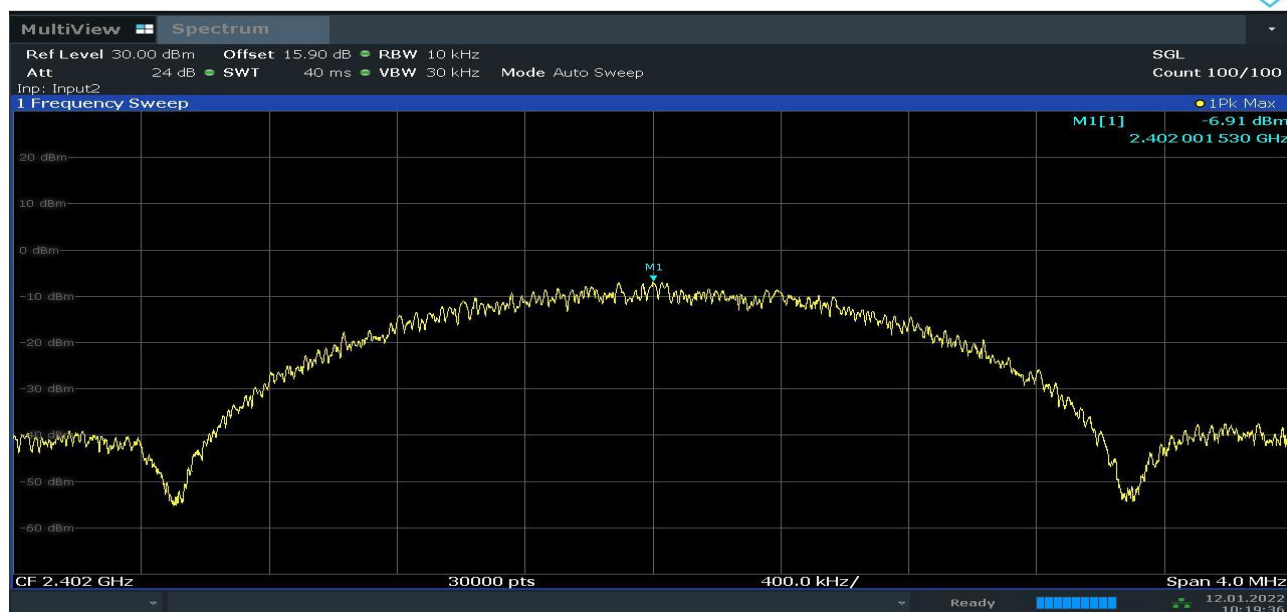
10:24:11 12.01.2022

BLE_TM1_Ant1_2480



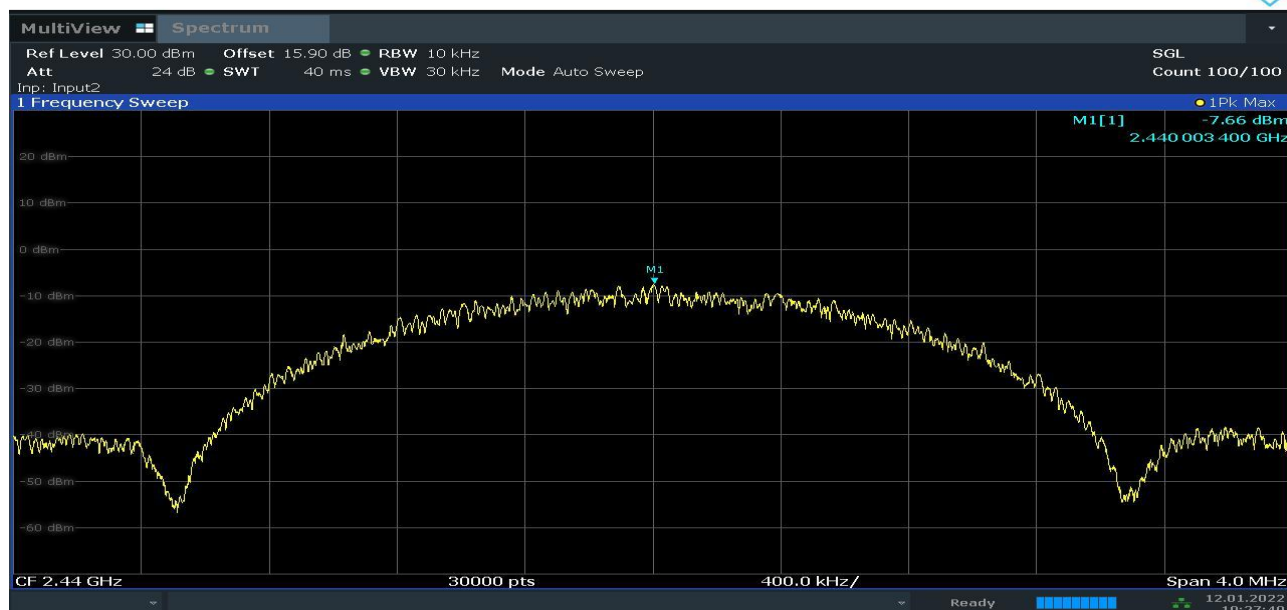
10:31:33 12.01.2022

BLE_TM2_Ant1_2402



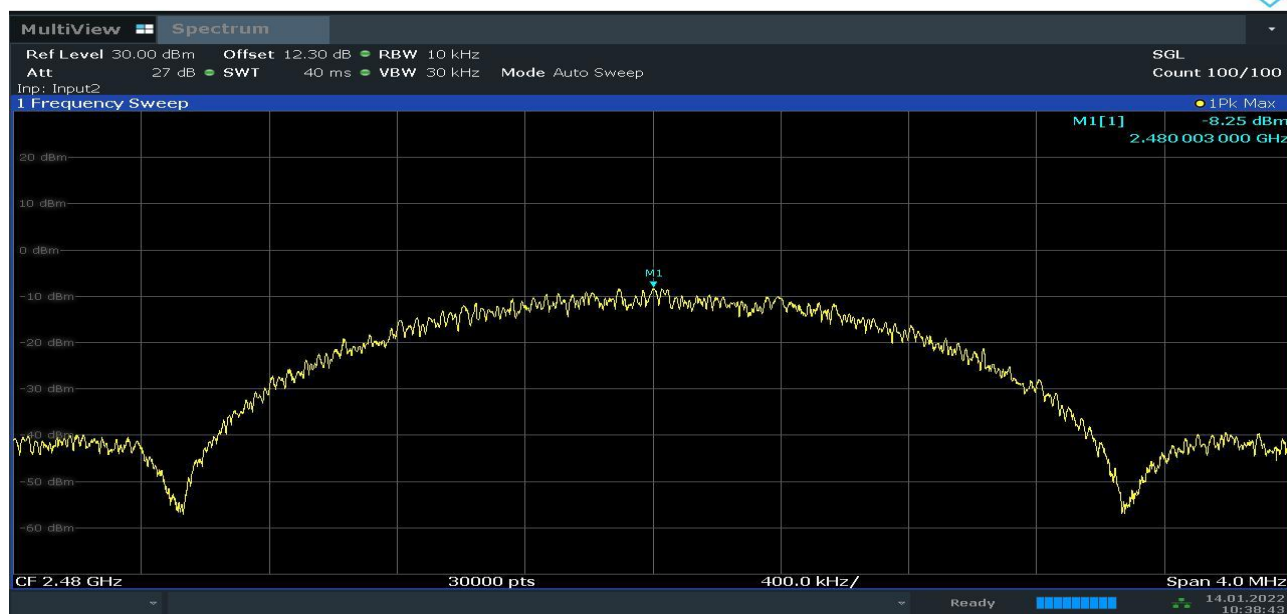
10:19:37 12.01.2022

BLE_TM2_Ant1_2440



10:27:50 12.01.2022

BLE_TM2_Ant1_2480



10:38:43 14.01.2022

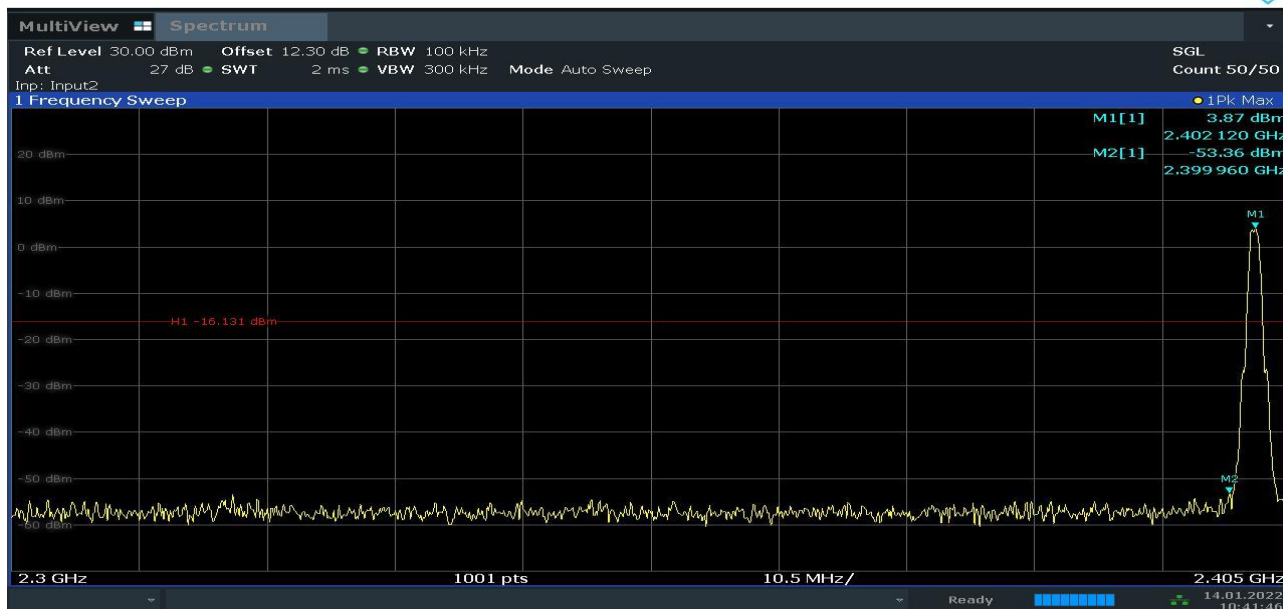
6.Appendix F: Band edge measurements

6.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_TM1	Ant1	Low	2402	3.869	-53.362	-16.131	PASS
		High	2480	4.326	-54.161	-15.674	PASS
BLE_TM2	Ant1	Low	2402	4.879	-32.637	-15.121	PASS
		High	2480	4.236	-54.363	-15.764	PASS

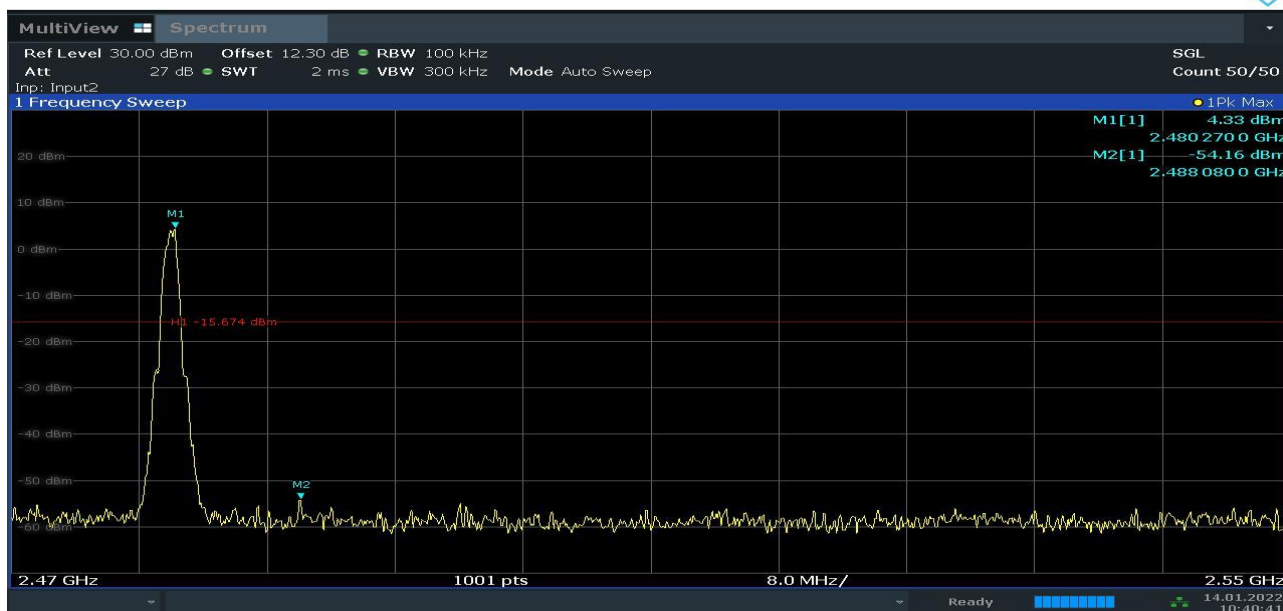
6.2 Test Graphs

BLE_TM1_Ant1_Low_2402



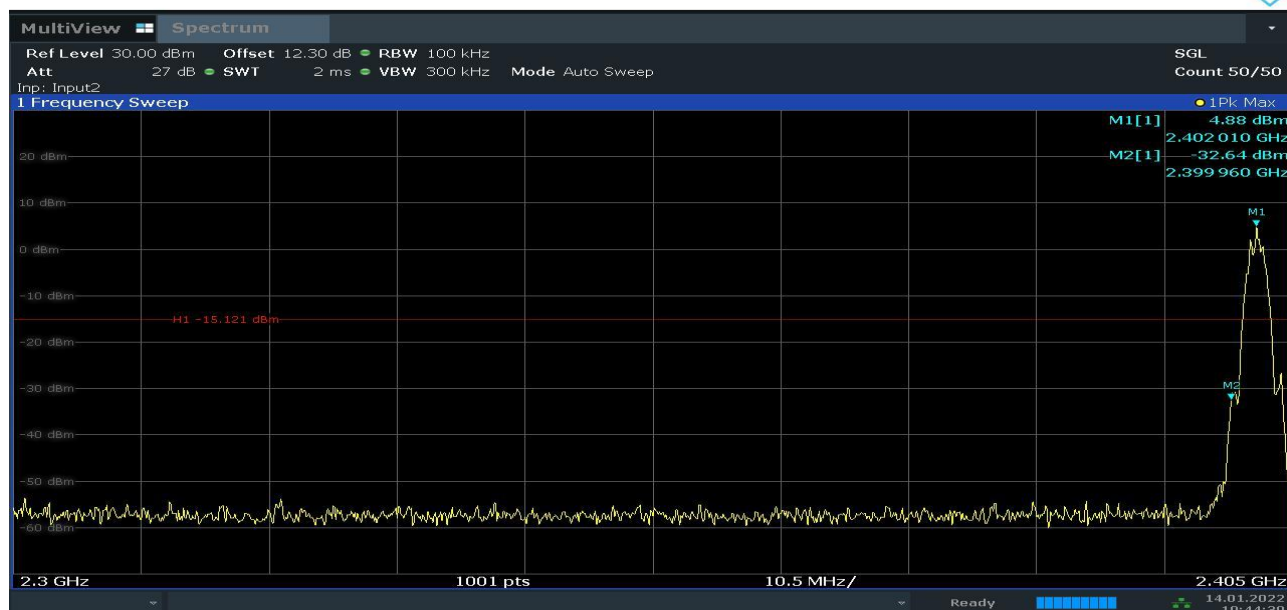
10:41:47 14.01.2022

BLE_TM1_Ant1_High_2480



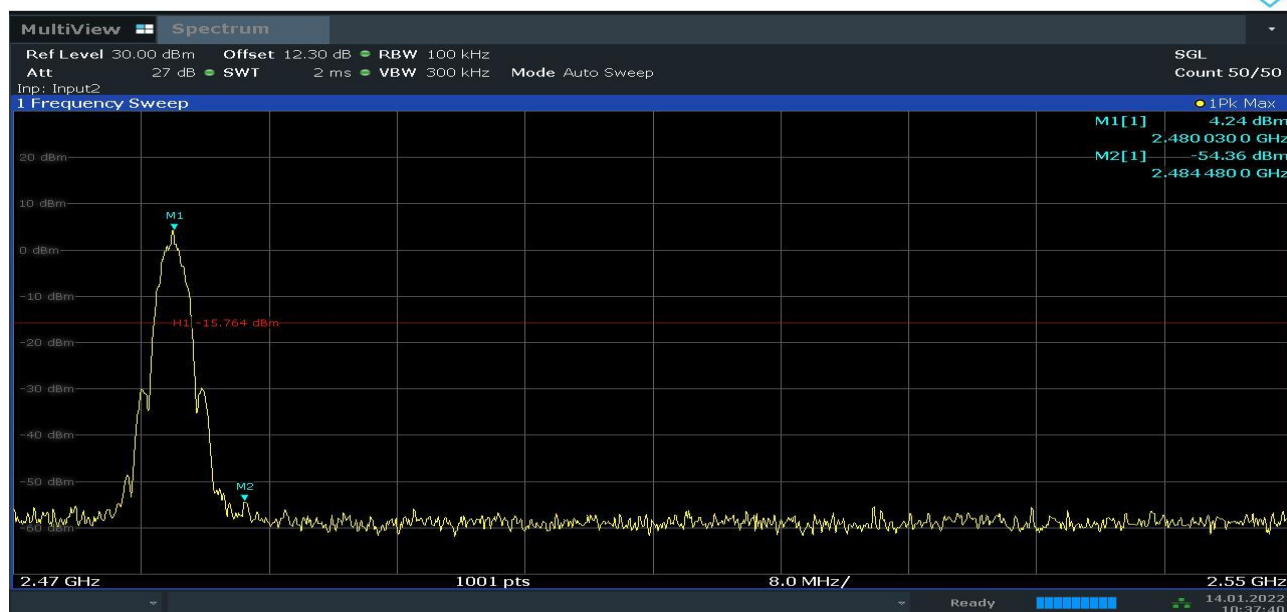
10:40:42 14.01.2022

BLE_TM2_Ant1_Low_2402



10:44:30 14.01.2022

BLE_TM2_Ant1_High_2480



10:37:40 14.01.2022

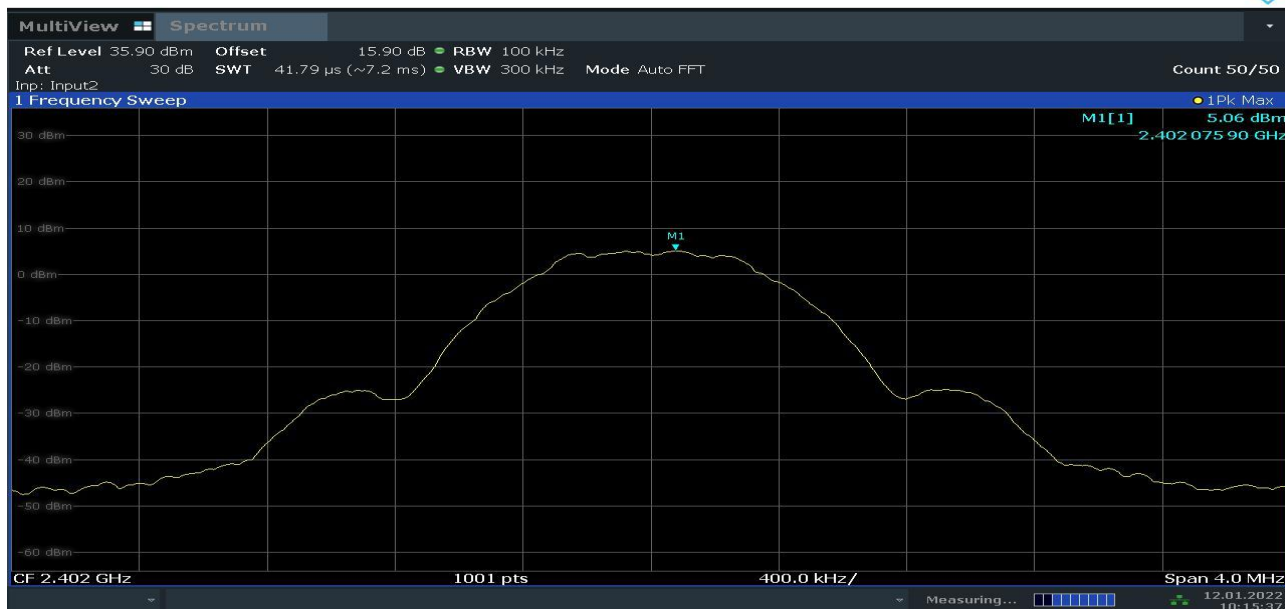
7.Appendix G: Conducted Spurious Emission

7.1 Test Result

TestMode	Antenna	Channel	RefLevel[dB m /100kHz]	Result[dBm]	Limit[dBm /100kHz]	Verdict
BLE_TM1	Ant1	2402	5.06	<Limit	-24.94	PASS
		2440	4.24	<Limit	-25.76	PASS
		2480	4.31	<Limit	-25.69	PASS
BLE_TM2	Ant1	2402	2.97	<Limit	-27.03	PASS
		2440	2.55	<Limit	-27.45	PASS
		2480	2.73	<Limit	-27.27	PASS

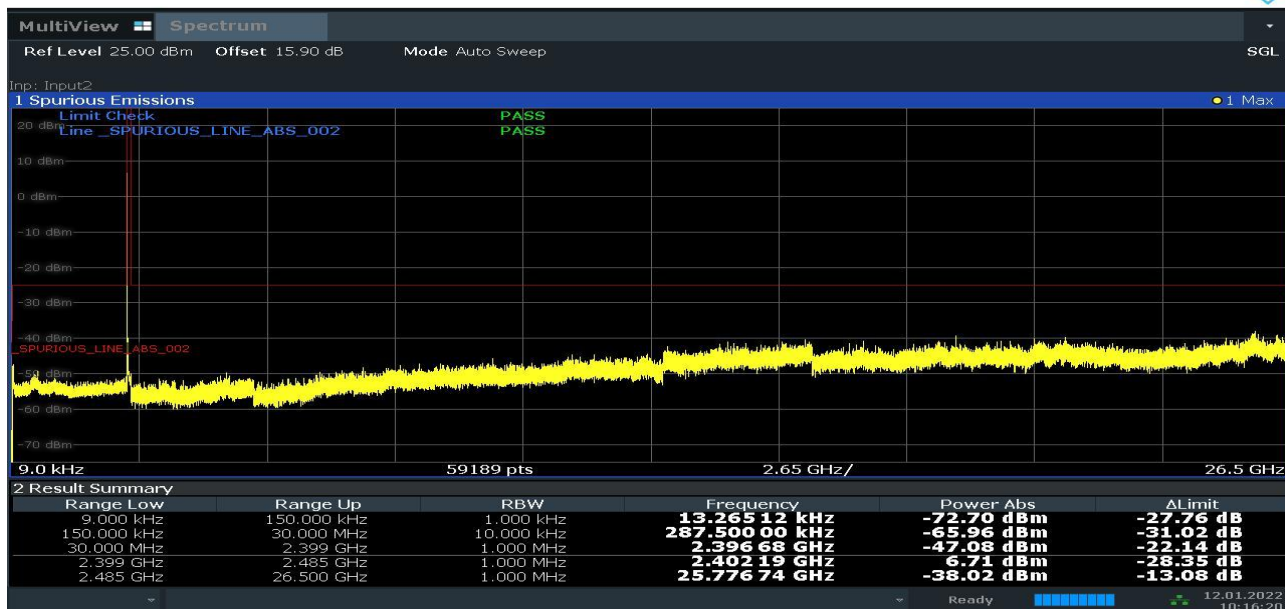
7.2 Test Graphs

BLE_TM1_Ant1_2402_0~Reference



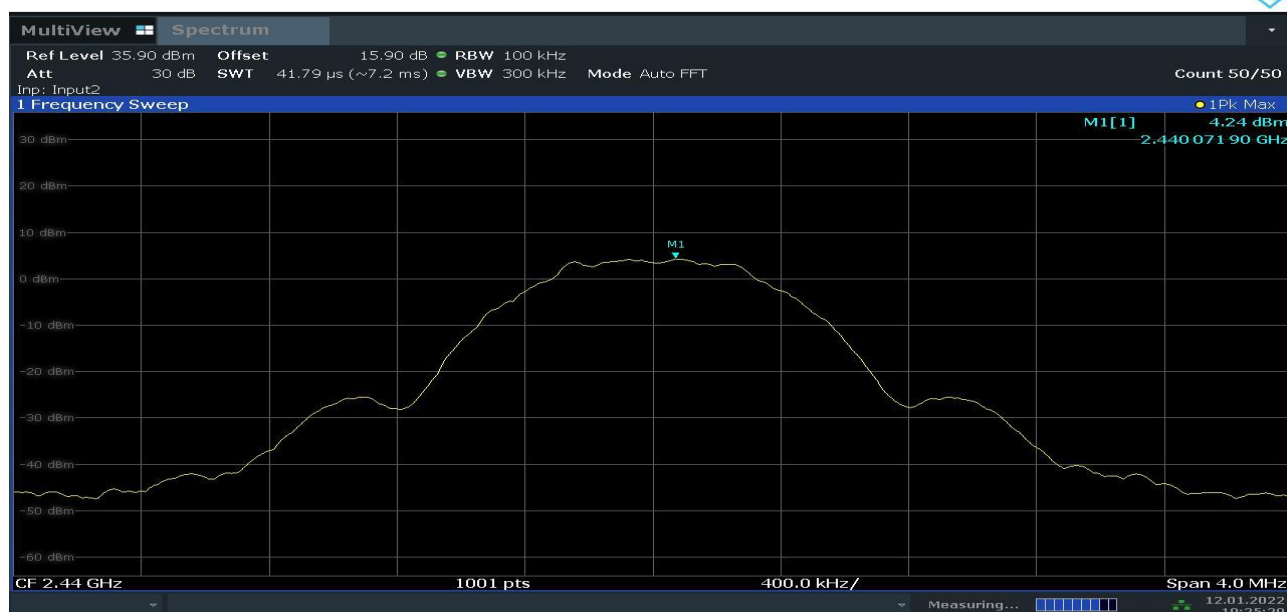
10:15:38 12.01.2022

BLE_TM1_Ant1_2402_9KHz~26.5GHz



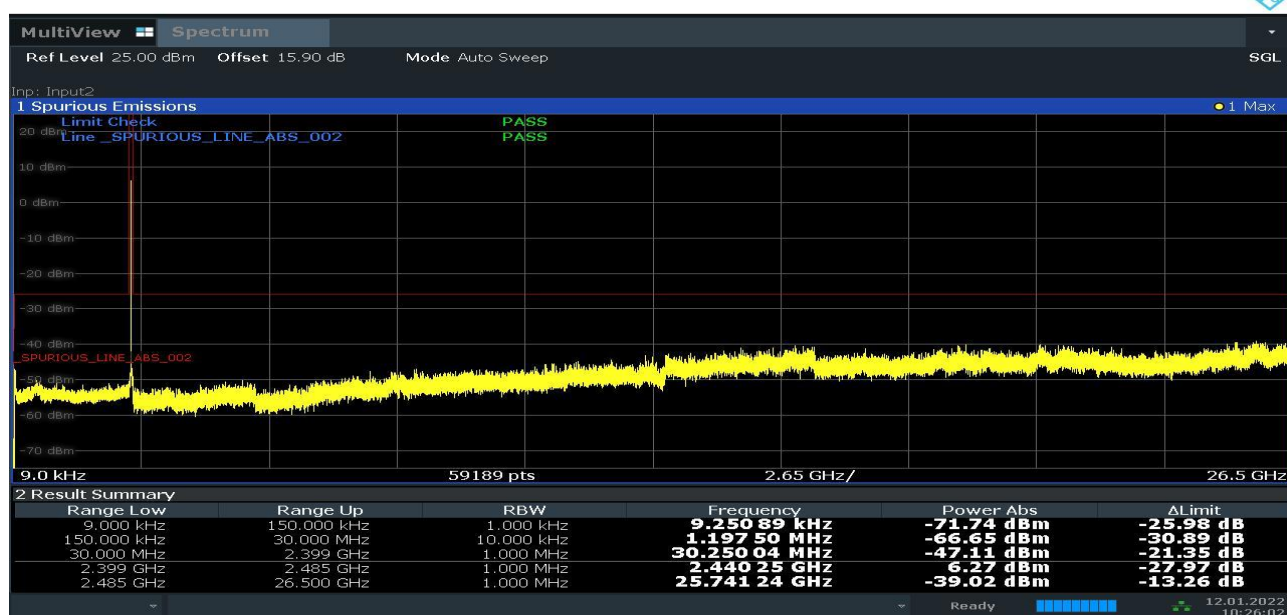
10:16:21 12.01.2022

BLE_TM1_Ant1_2440_0~Reference



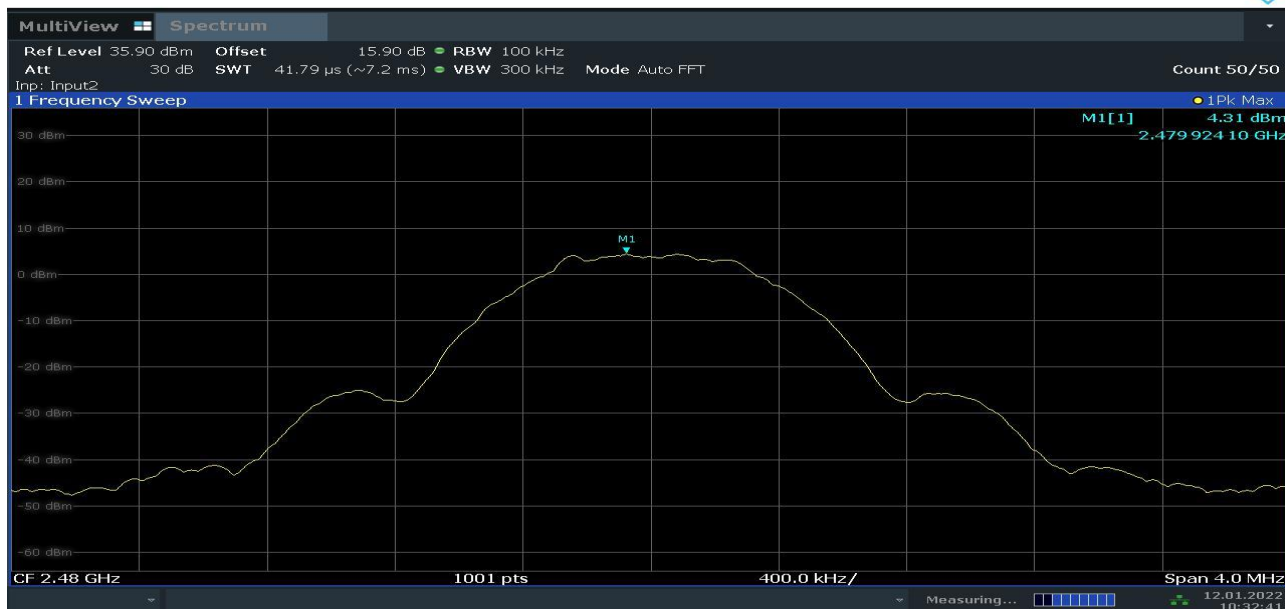
10:25:20 12.01.2022

BLE_TM1_Ant1_2440_9KHz~26.5GHz



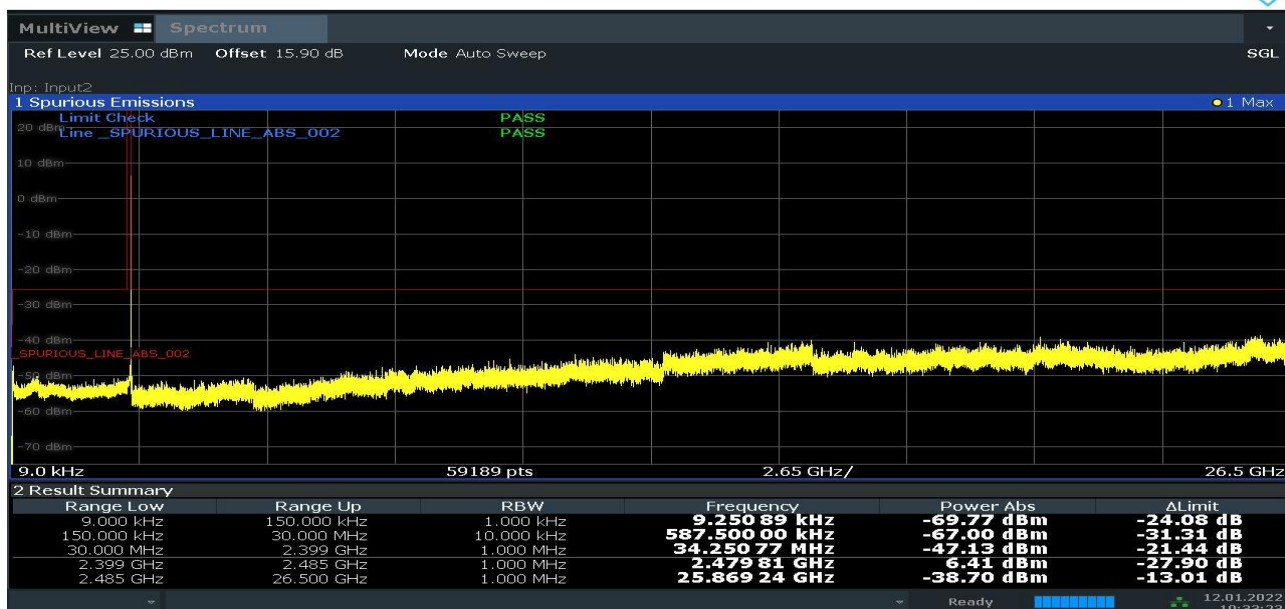
10:26:03 12.01.2022

BLE_TM1_Ant1_2480_0~Reference



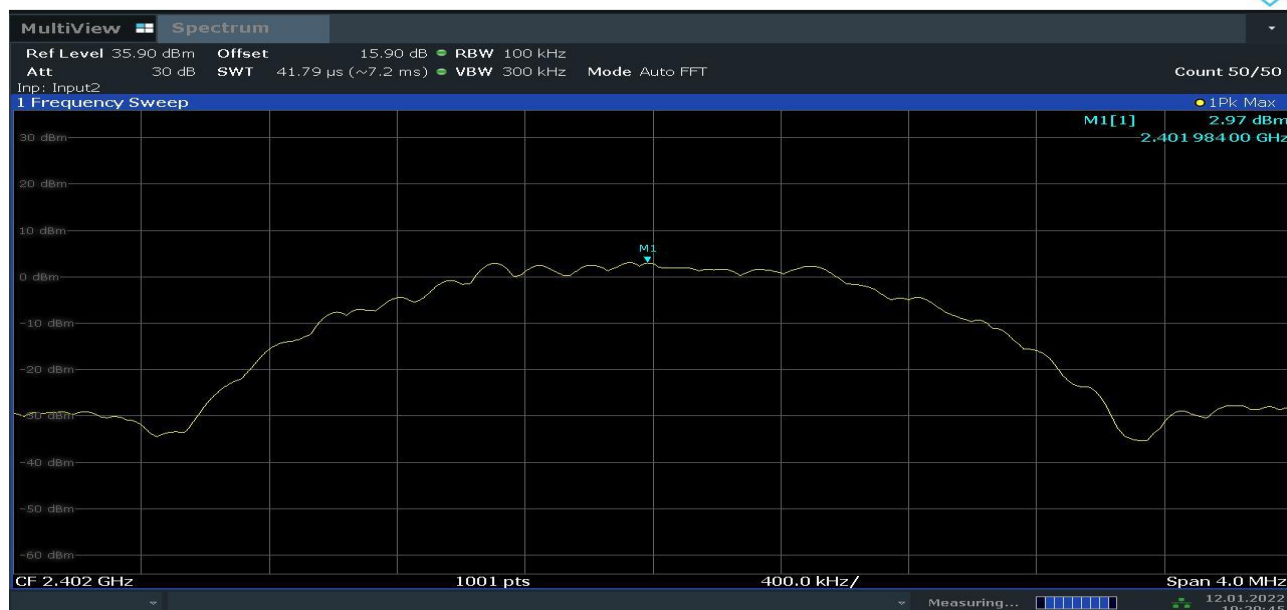
10:32:42 12.01.2022

BLE_TM1_Ant1_2480_9KHz~26.5GHz



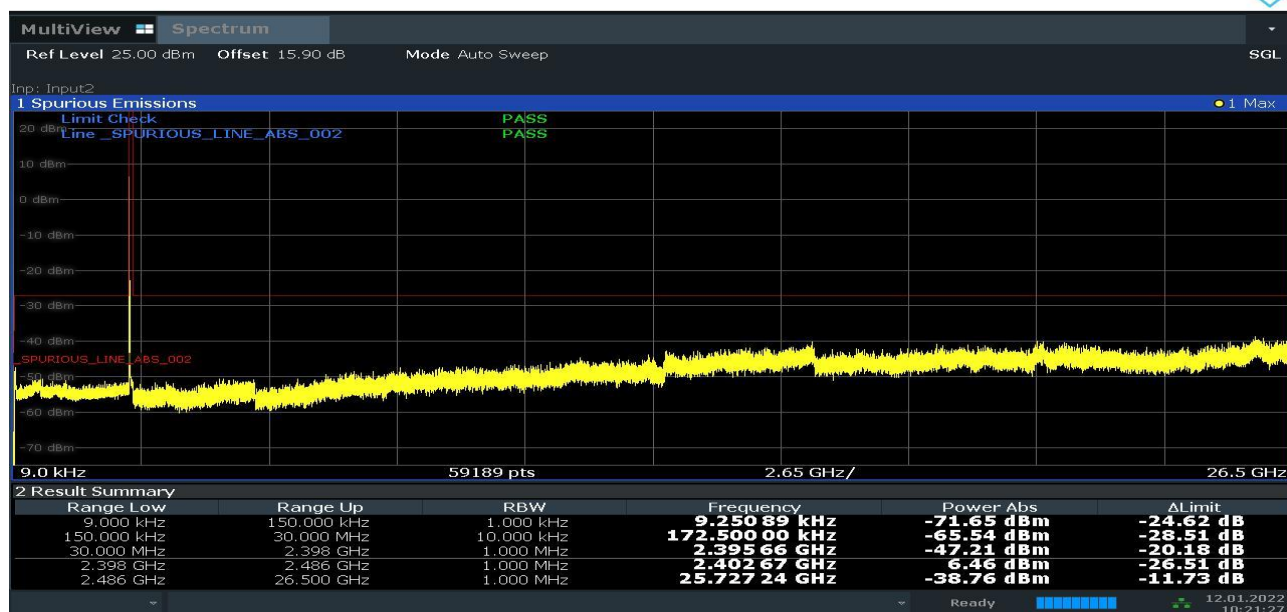
10:33:24 12.01.2022

BLE_TM2_Ant1_2402_0~Reference



10:20:45 12.01.2022

BLE_TM2_Ant1_2402_9KHz~26.5GHz



10:21:28 12.01.2022