



Appendix B

RF Test: General Information

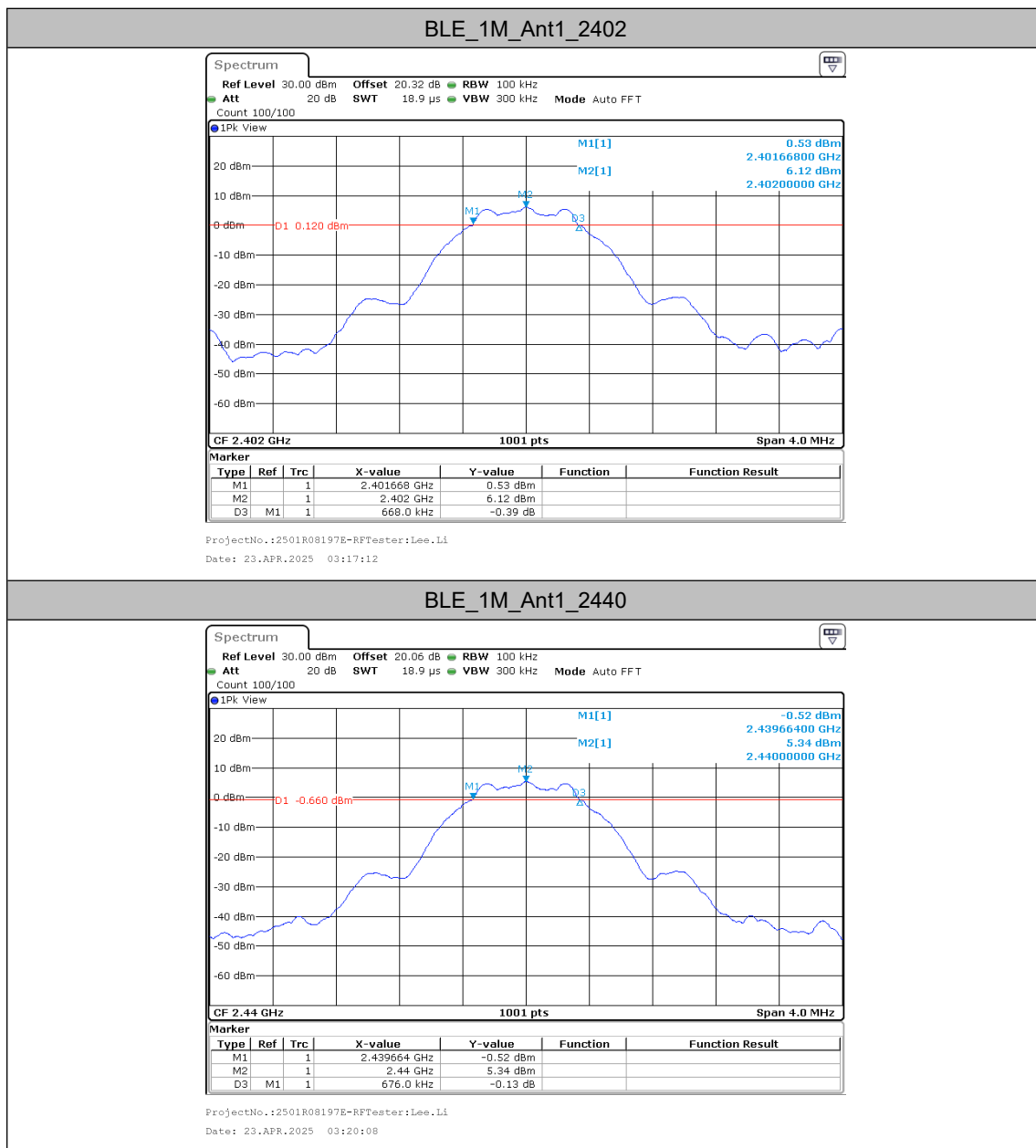
Project No.:	2501R08197E-RF
EUT Number:	30LS-4
Operating Mode:	Transmitting
Teststandard	FCC 15.247/RSS-247
Test Conditions:	Temperature: <u>25</u> °C Relative Humidity: <u>55</u> % ATM Pressure: <u>101</u> kPa
Test Engineer:	Lee Li
Test Date:	2025-04-23

DTS Bandwidth

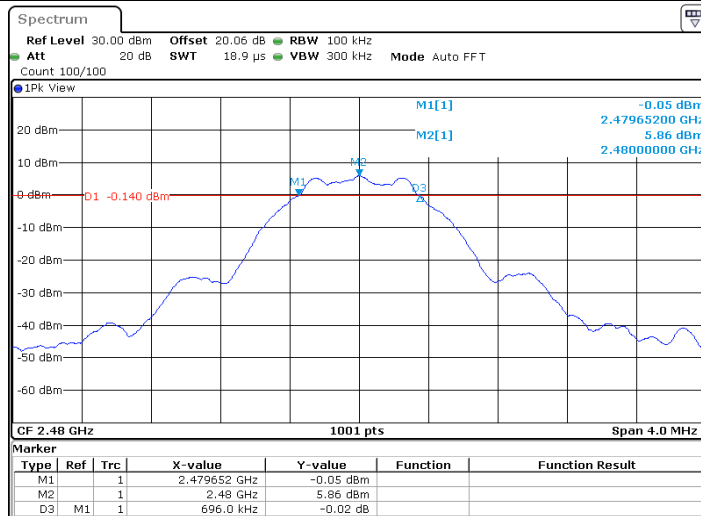
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.676	2439.664	2440.340	0.5	PASS
		2480	0.696	2479.652	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.444	2402.560	0.5	PASS
		2440	1.120	2439.444	2440.564	0.5	PASS
		2480	1.128	2479.440	2480.568	0.5	PASS

Test Graphs

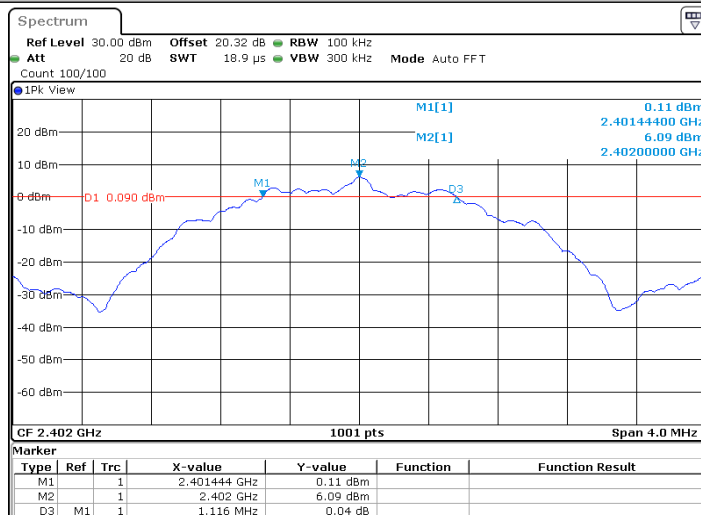


BLE_1M_Ant1_2480



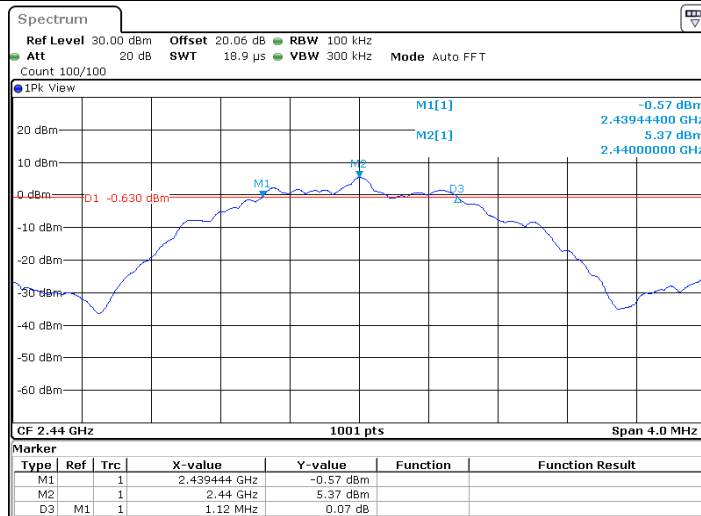
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:21:29

BLE_2M_Ant1_2402



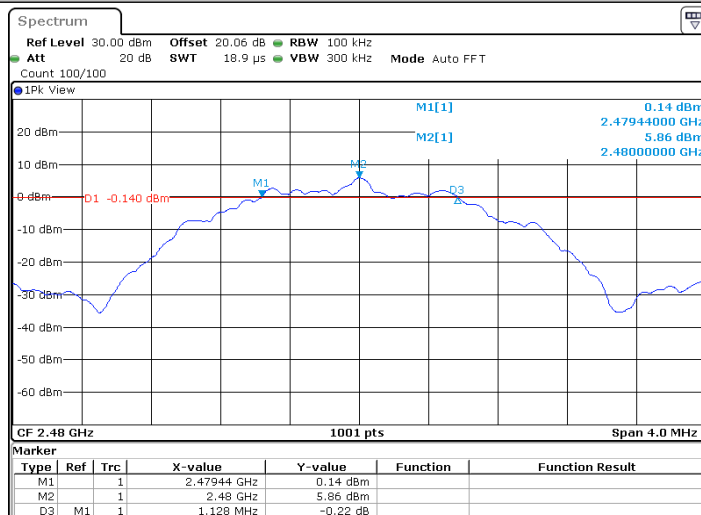
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:22:46

BLE_2M_Ant1_2440



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:23:55

BLE_2M_Ant1_2480



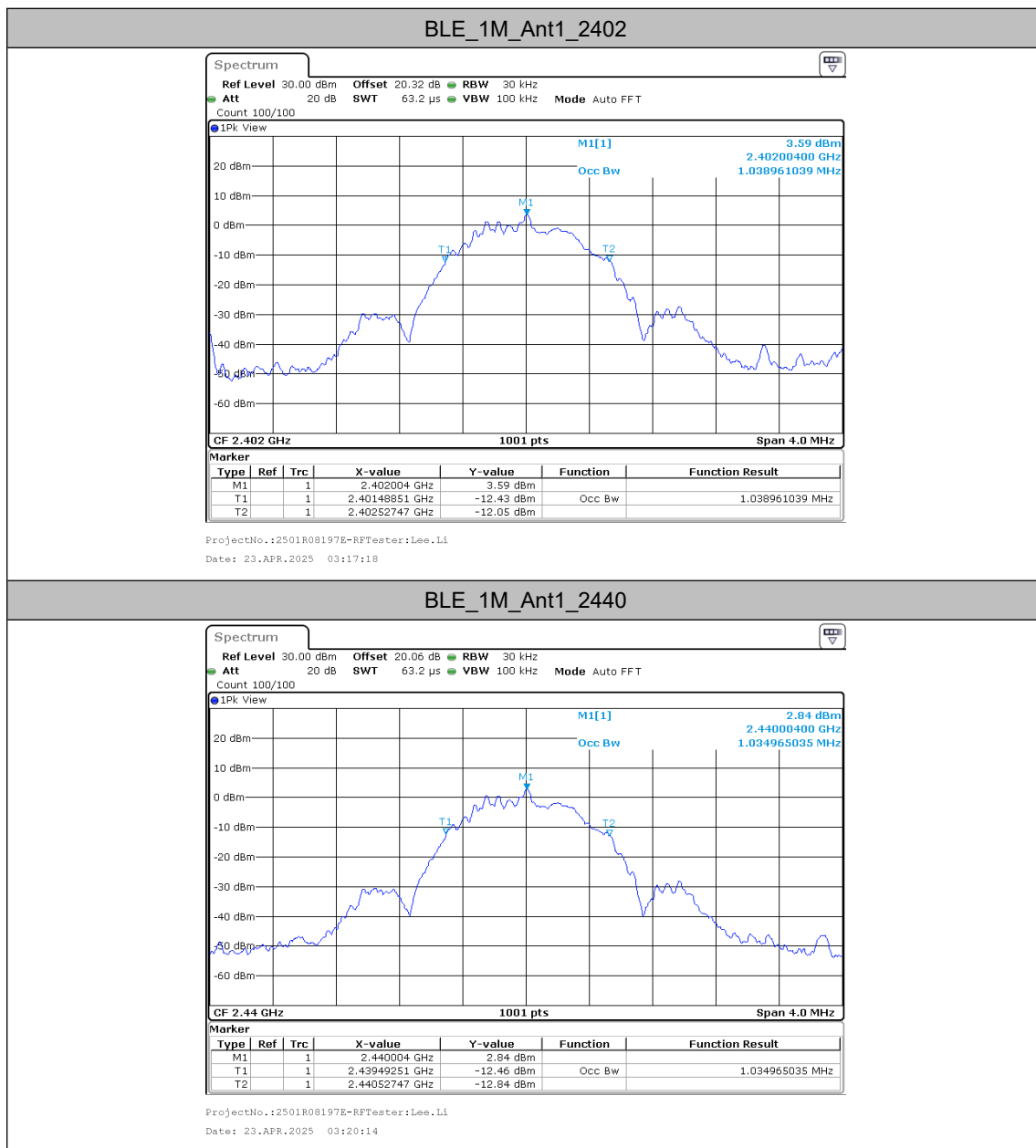
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:27:02

Occupied Channel Bandwidth

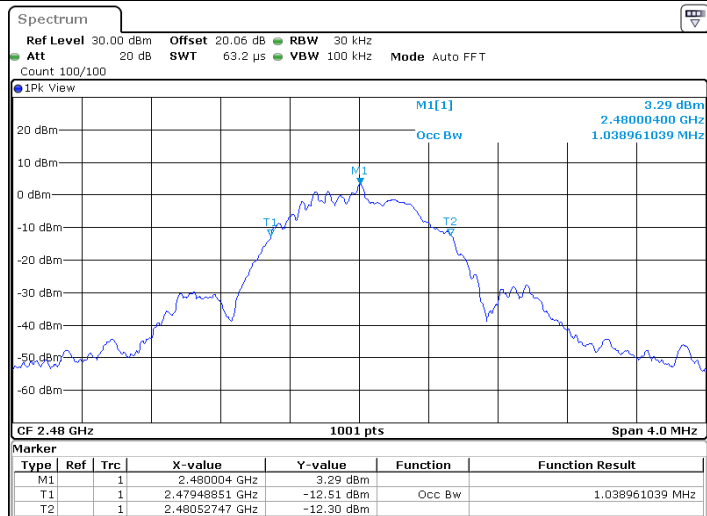
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.039	2401.4885	2402.5275	---	---
		2440	1.035	2439.4925	2440.5275	---	---
		2480	1.039	2479.4885	2480.5275	---	---
BLE_2M	Ant1	2402	2.034	2401.0090	2403.0430	---	---
		2440	2.034	2439.0090	2441.0430	---	---
		2480	2.042	2479.0010	2481.0430	---	---

Test Graphs

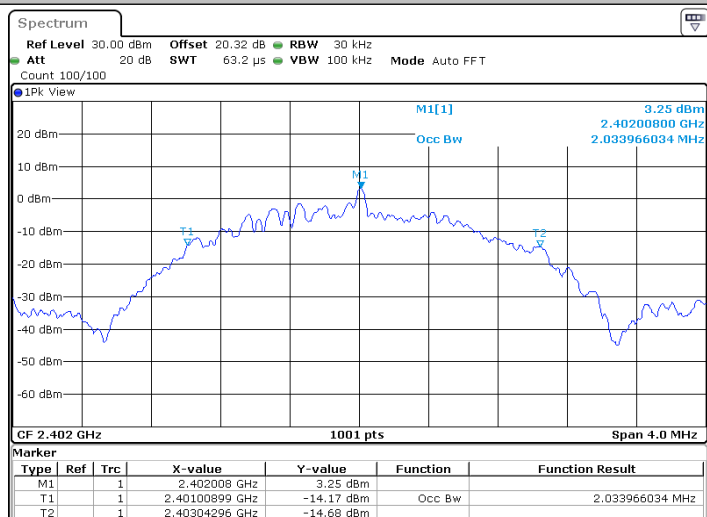


BLE_1M_Ant1_2480



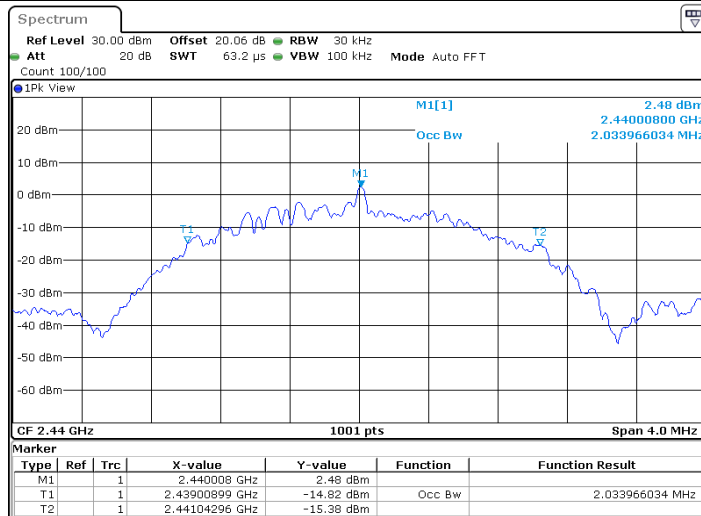
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:21:35

BLE_2M_Ant1_2402



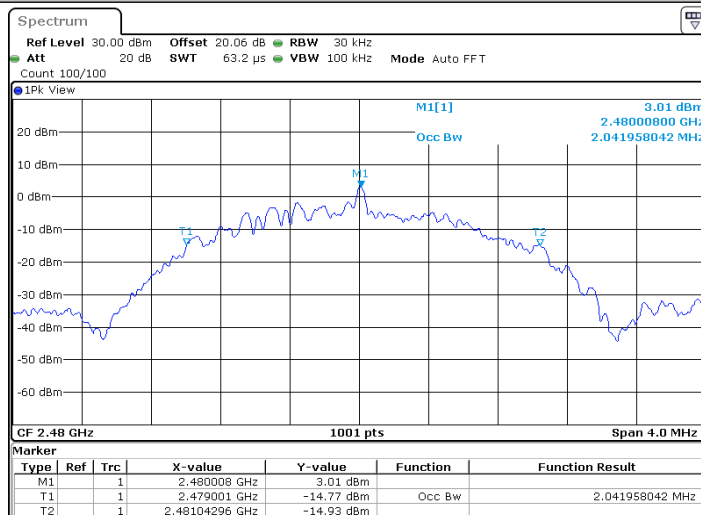
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:22:52

BLE_2M_Ant1_2440



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:24:01

BLE_2M_Ant1_2480



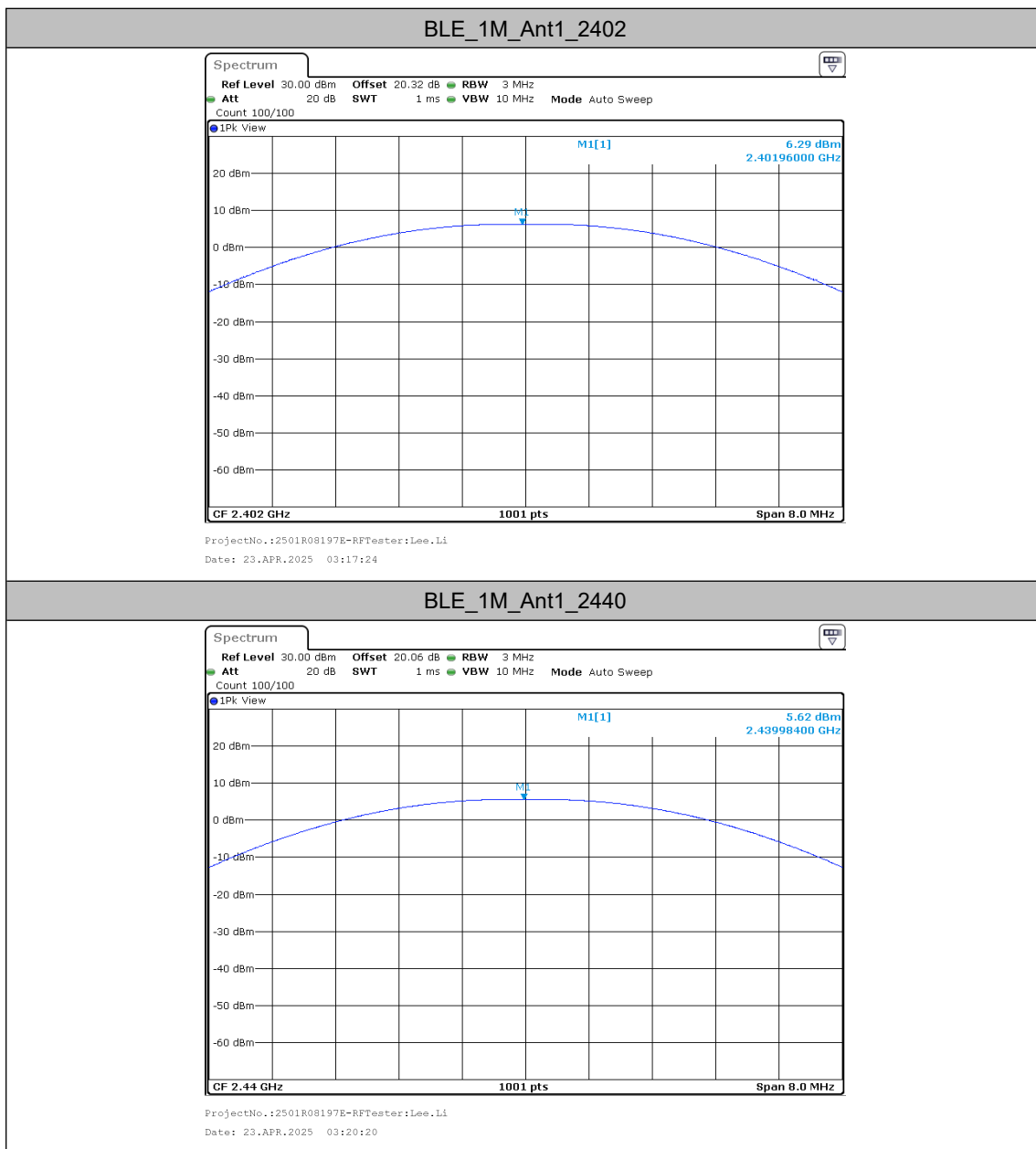
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:27:08

Maximum conducted output power

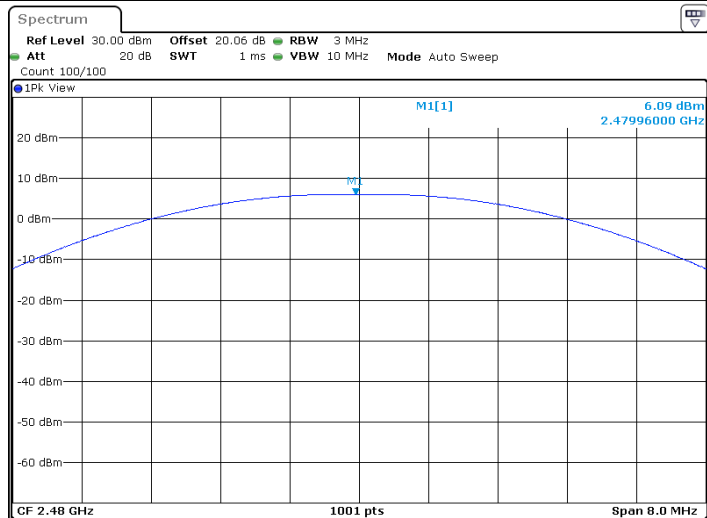
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	6.29	≤30	9.08	≤36	PASS
		2440	5.62	≤30	8.41	≤36	PASS
		2480	6.09	≤30	8.88	≤36	PASS
BLE_2M	Ant1	2402	6.31	≤30	9.10	≤36	PASS
		2440	5.67	≤30	8.46	≤36	PASS
		2480	6.09	≤30	8.88	≤36	PASS

Test Graphs Peak

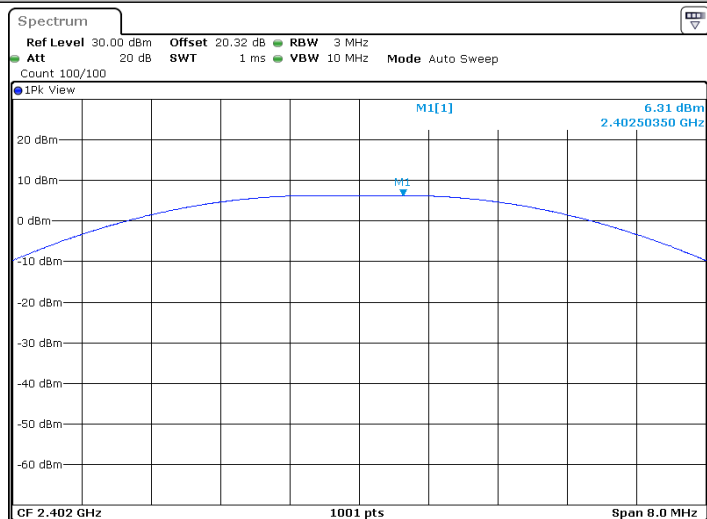


BLE_1M_Ant1_2480



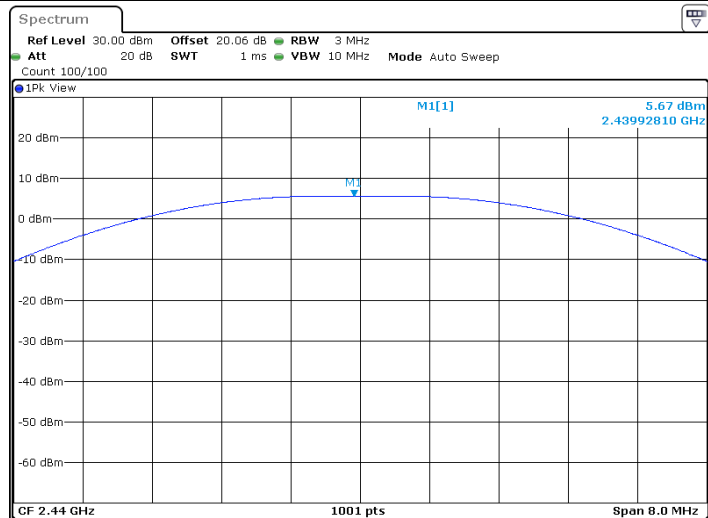
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:21:41

BLE_2M_Ant1_2402



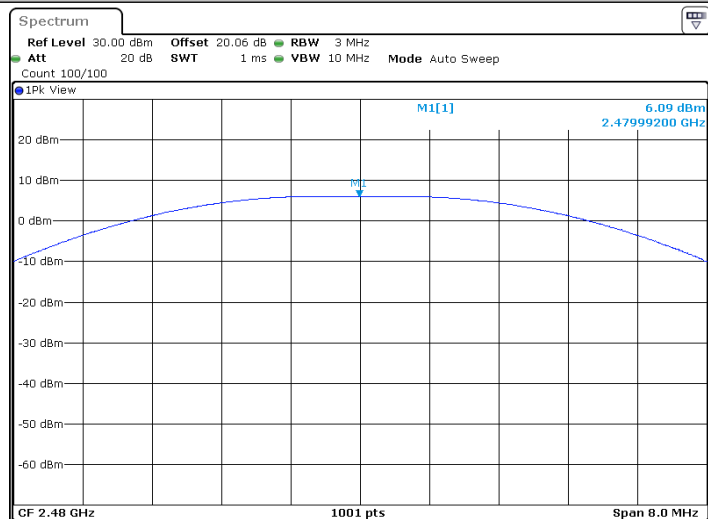
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:22:58

BLE_2M_Ant1_2440



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:24:07

BLE_2M_Ant1_2480



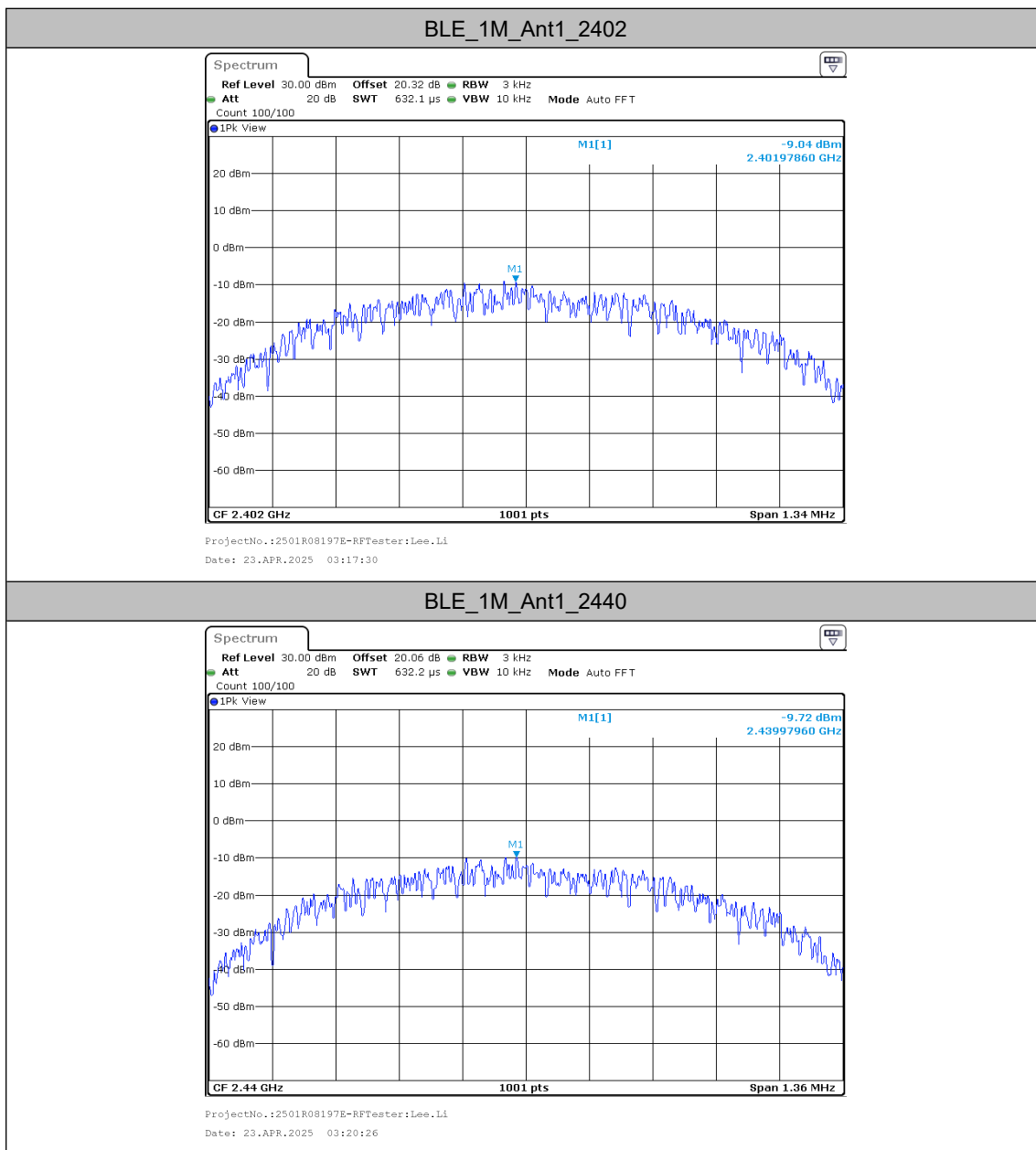
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:27:14

Maximum power spectral density

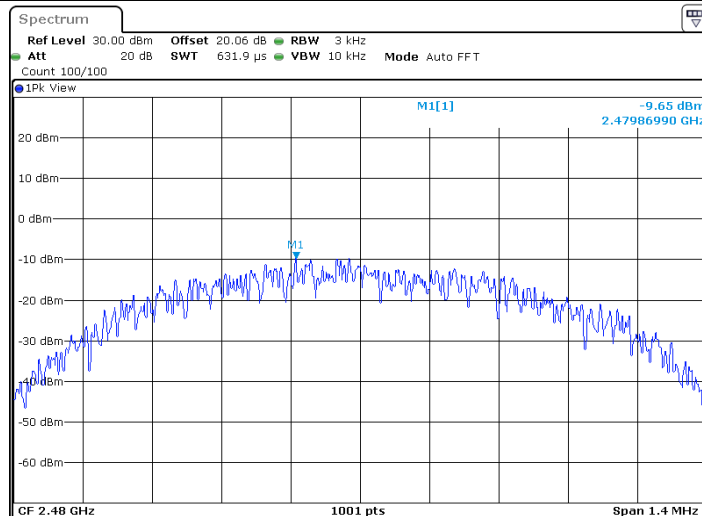
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.04	≤8.00	PASS
		2440	-9.72	≤8.00	PASS
		2480	-9.65	≤8.00	PASS
BLE_2M	Ant1	2402	-11.40	≤8.00	PASS
		2440	-12.21	≤8.00	PASS
		2480	-11.42	≤8.00	PASS

Test Graphs

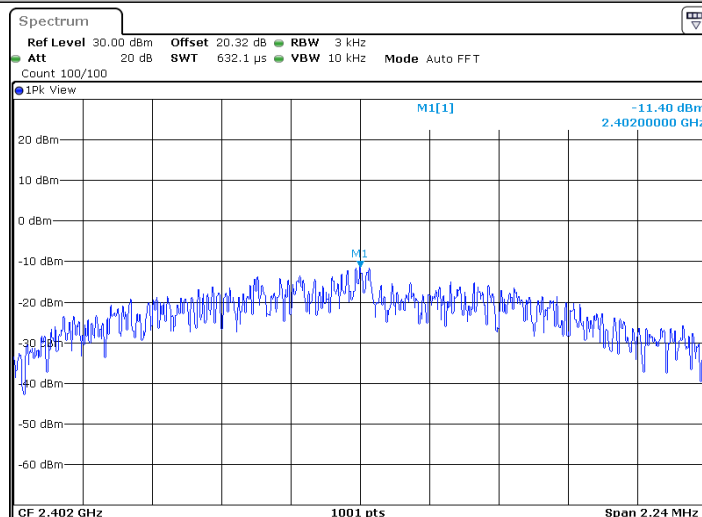


BLE_1M_Ant1_2480



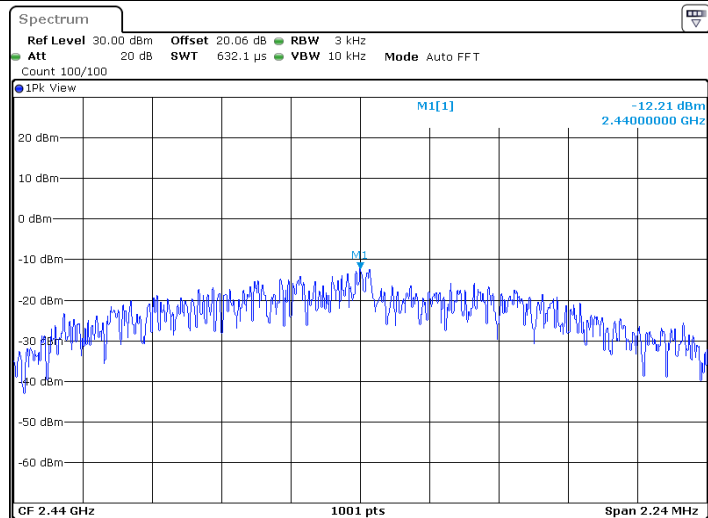
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 Date: 23.APR.2025 03:21:47

BLE_2M_Ant1_2402



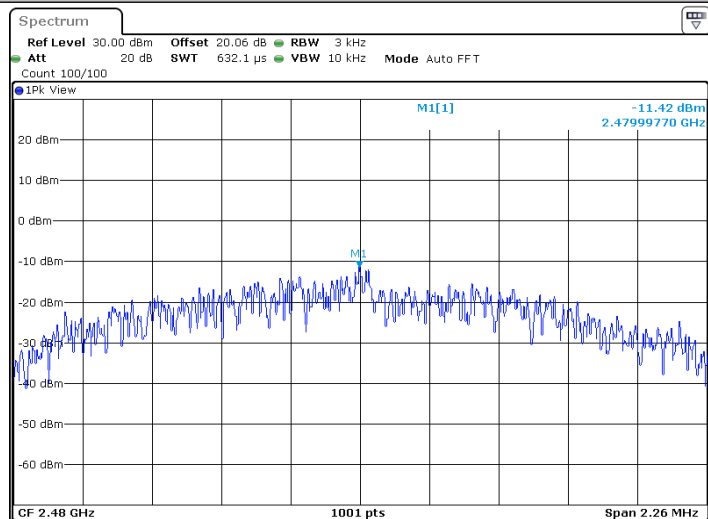
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:23:04

BLE_2M_Ant1_2440



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:24:13

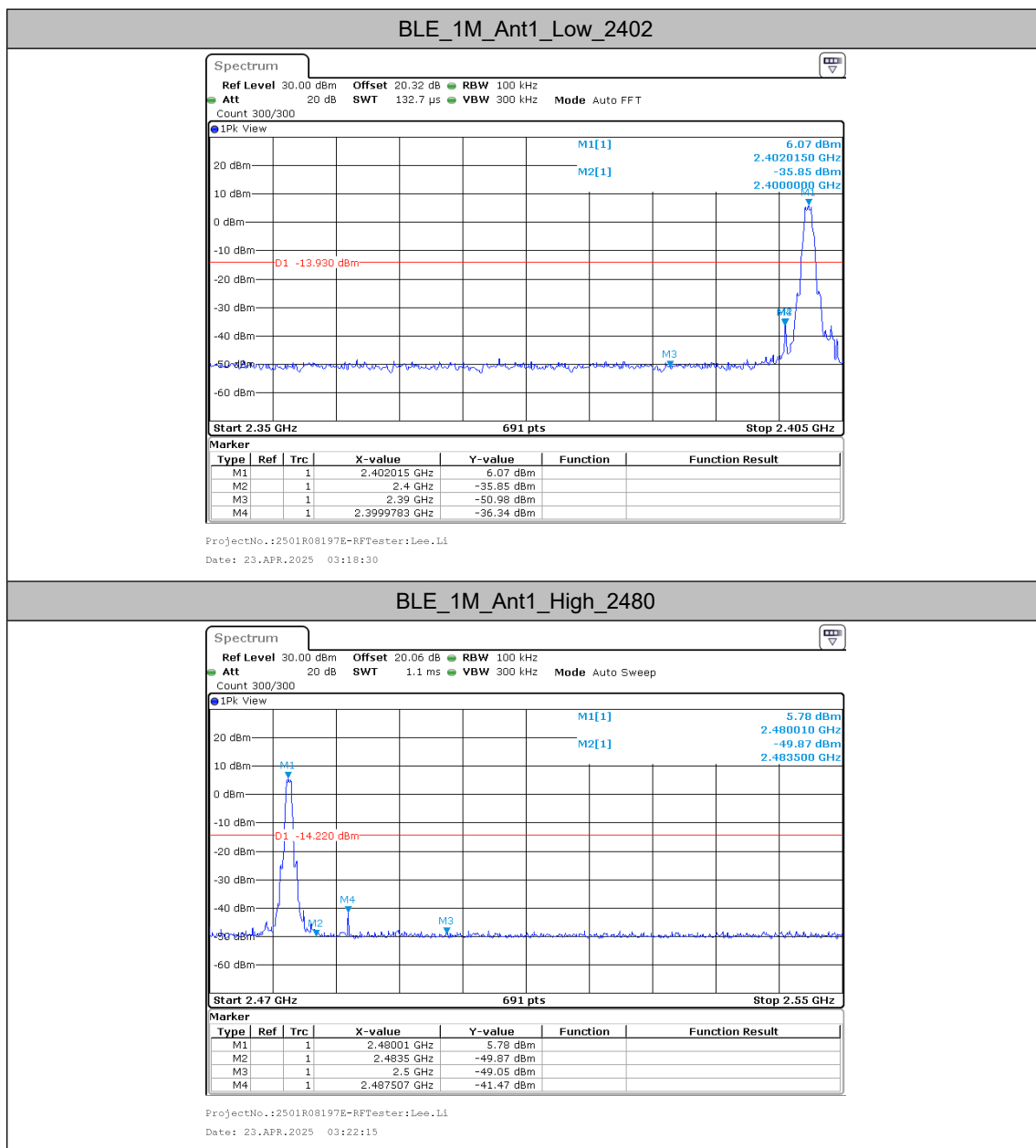
BLE_2M_Ant1_2480



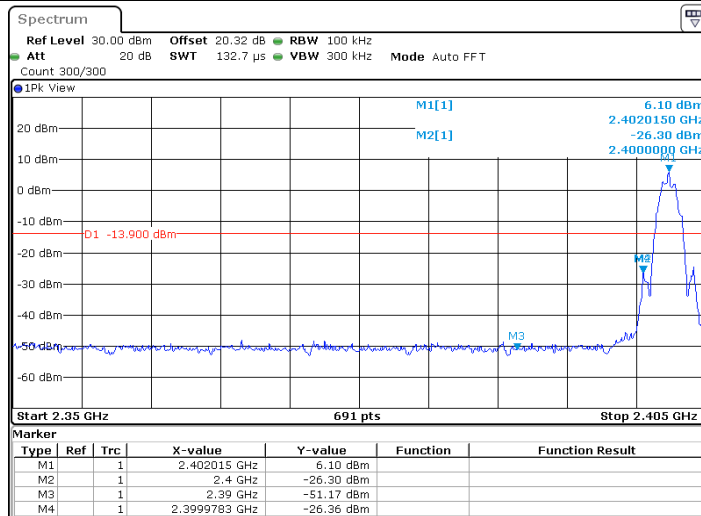
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 Date: 23.APR.2025 03:27:20

Band edge measurements

Test Graphs

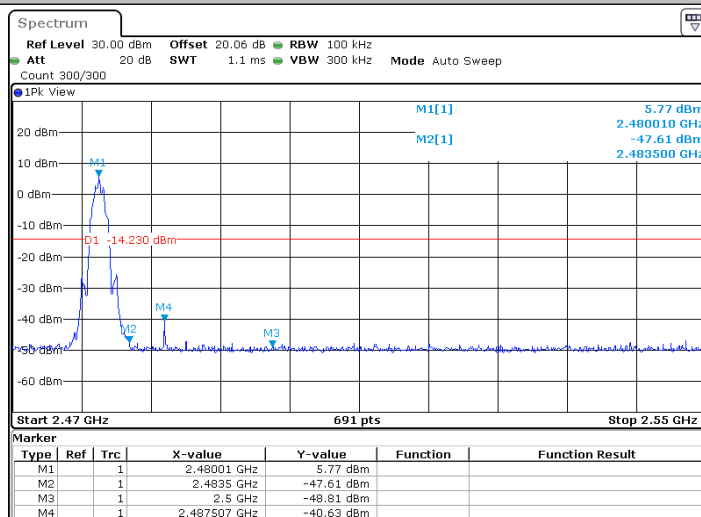


BLE_2M_Ant1_Low_2402



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:23:13

BLE_2M_Ant1_High_2480



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 03:27:29

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 [kHz]
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08	2564	3
BLE_2M	Ant1	2440	0.20	0.62	32.26	4.91	5000	5

Test Graphs

