



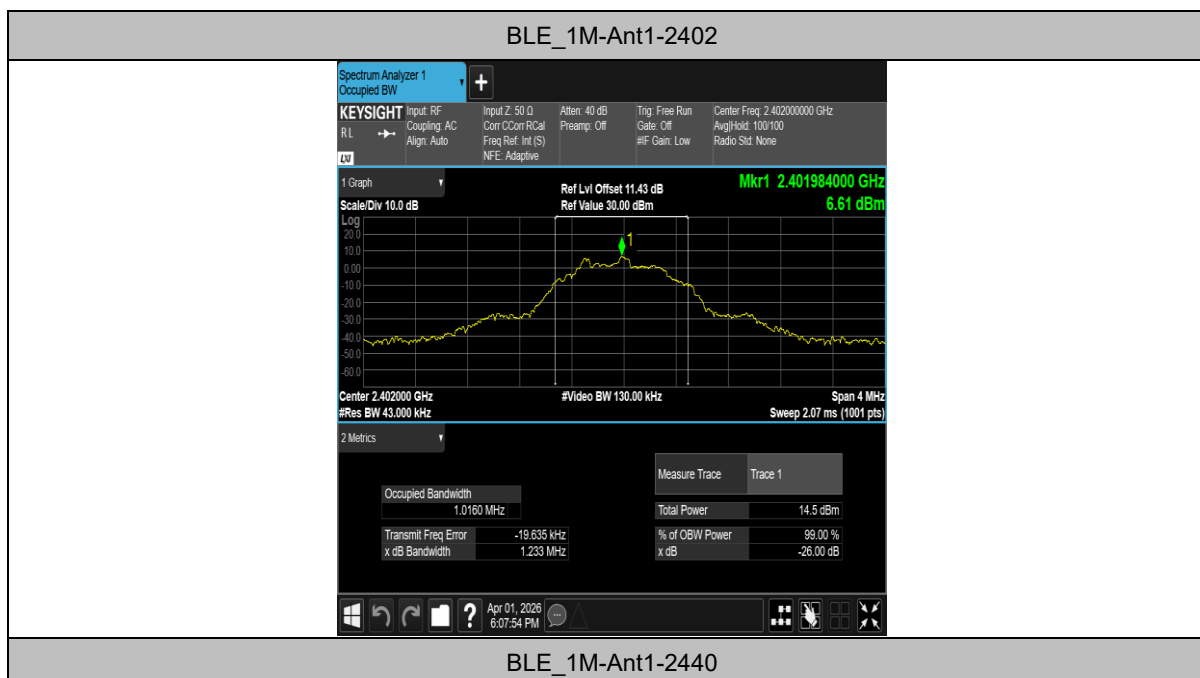
Test Report No.: RF260401B001

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0160	2401.4724	2402.4884	---	---
BLE_1M	Ant1	2440	1.0177	2439.4674	2440.4851	---	---
BLE_1M	Ant1	2480	1.0206	2479.4613	2480.4819	---	---
BLE_2M	Ant1	2404	2.0028	2402.9915	2404.9943	---	---
BLE_2M	Ant1	2440	2.0092	2438.9893	2440.9985	---	---
BLE_2M	Ant1	2478	2.0134	2476.9878	2479.0012	---	---

Test Graphs



Boomwave Test (Shenzhen)
Co., Ltd.

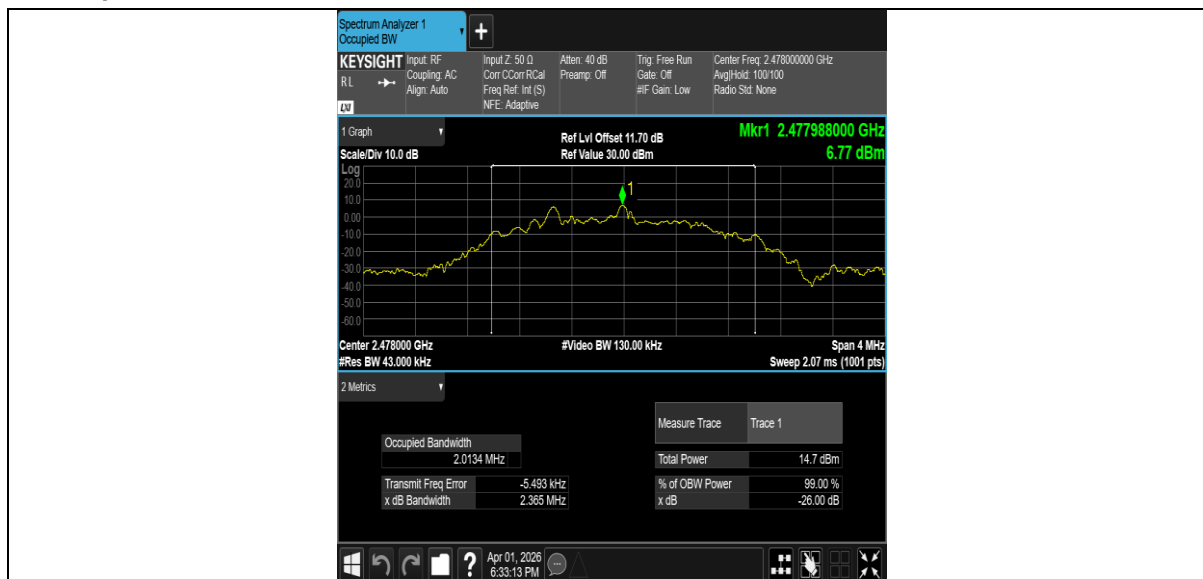
Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th
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Maximum conducted output power

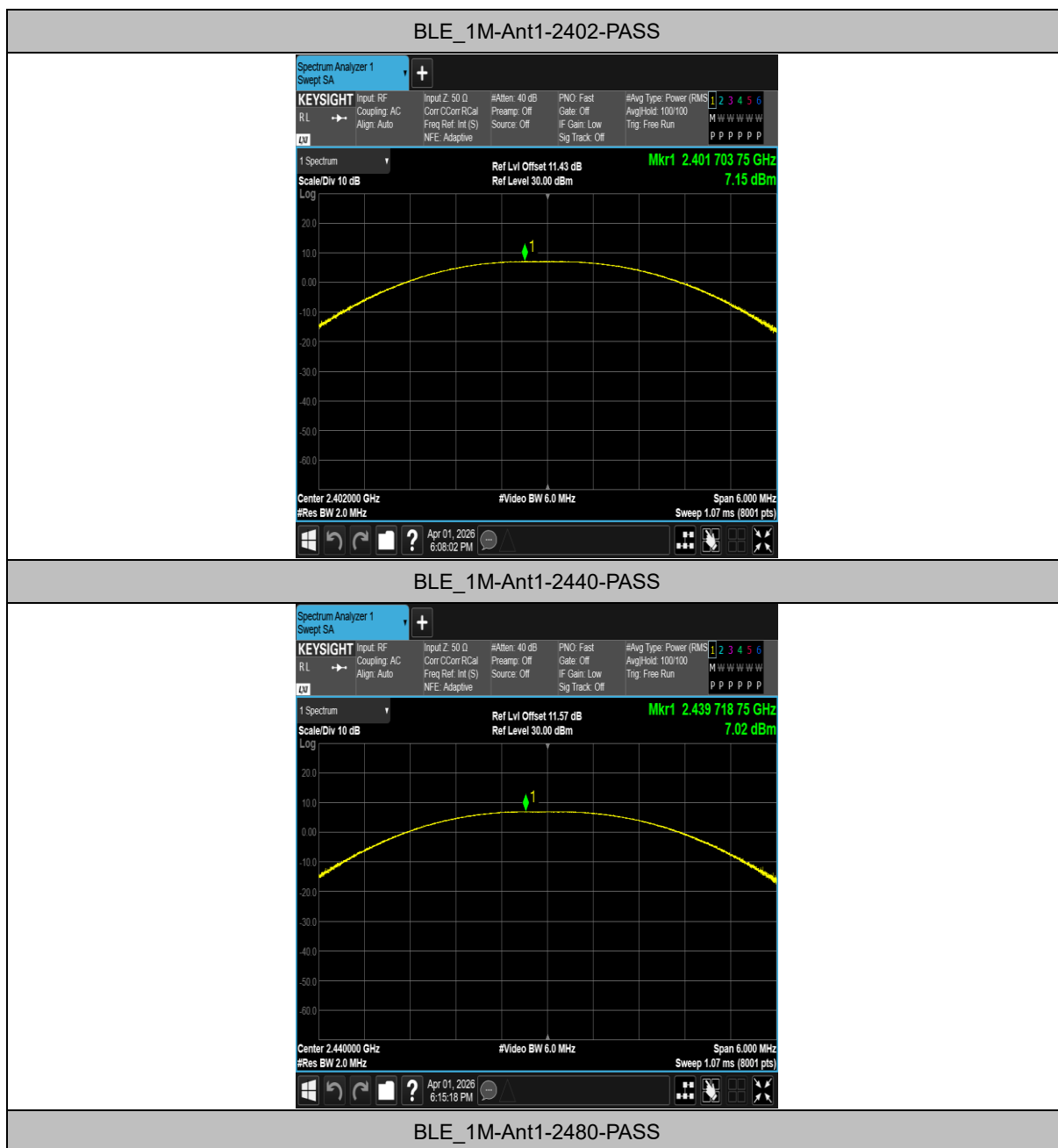
Test Result Peak

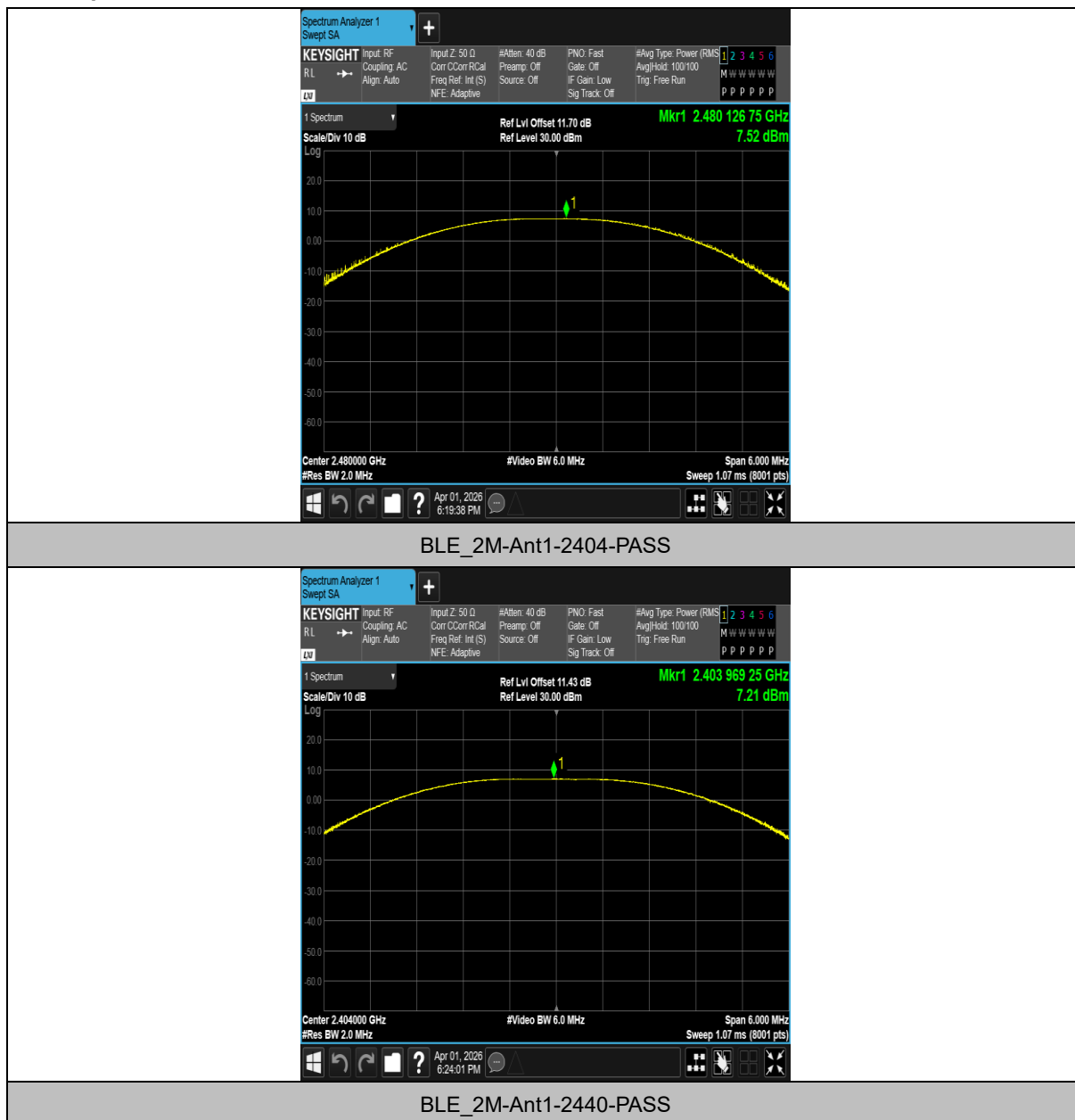
TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.15	≤30	7.62	≤36	PASS
BLE_1M	Ant1	2440	7.02	≤30	7.49	≤36	PASS
BLE_1M	Ant1	2480	7.52	≤30	7.99	≤36	PASS
BLE_2M	Ant1	2404	7.21	≤30	7.68	≤36	PASS
BLE_2M	Ant1	2440	7.06	≤30	7.53	≤36	PASS
BLE_2M	Ant1	2478	7.55	≤30	8.02	≤36	PASS

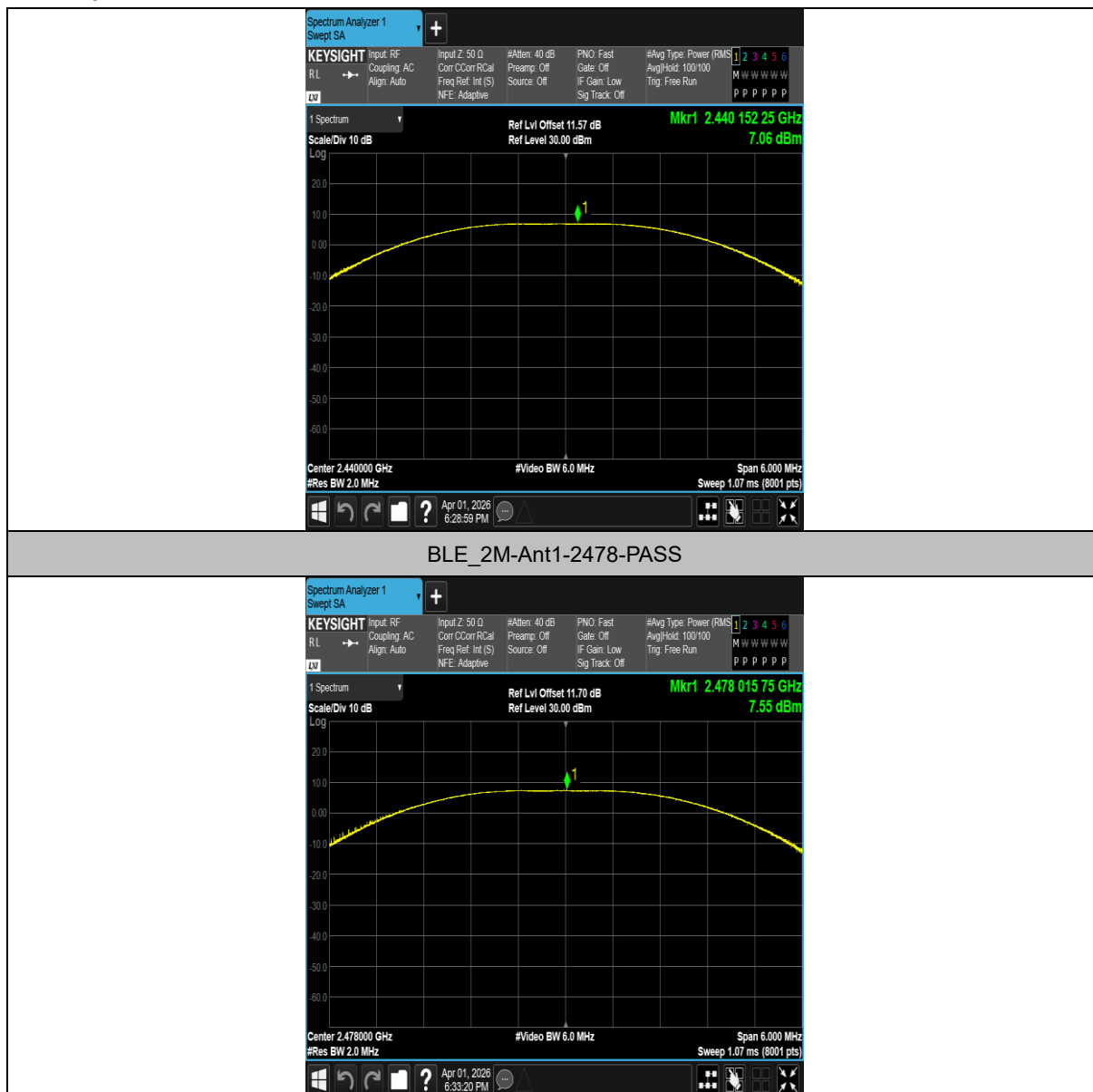
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Conducted Sensor power[dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.78	69.84	1.56	6.34	≤30.00	0.47	6.81	≤36.00	PASS
BLE_1M	Ant1	2440	4.66	69.84	1.56	6.22	≤30.00	0.47	6.69	≤36.00	PASS
BLE_1M	Ant1	2480	4.56	69.35	1.59	6.15	≤30.00	0.47	6.62	≤36.00	PASS
BLE_2M	Ant1	2404	2.38	40.32	3.94	6.32	≤30.00	0.47	6.79	≤36.00	PASS
BLE_2M	Ant1	2440	2.25	40.32	3.94	6.19	≤30.00	0.47	6.66	≤36.00	PASS
BLE_2M	Ant1	2478	2.11	39.68	4.01	6.12	≤30.00	0.47	6.59	≤36.00	PASS

Test Graphs Peak





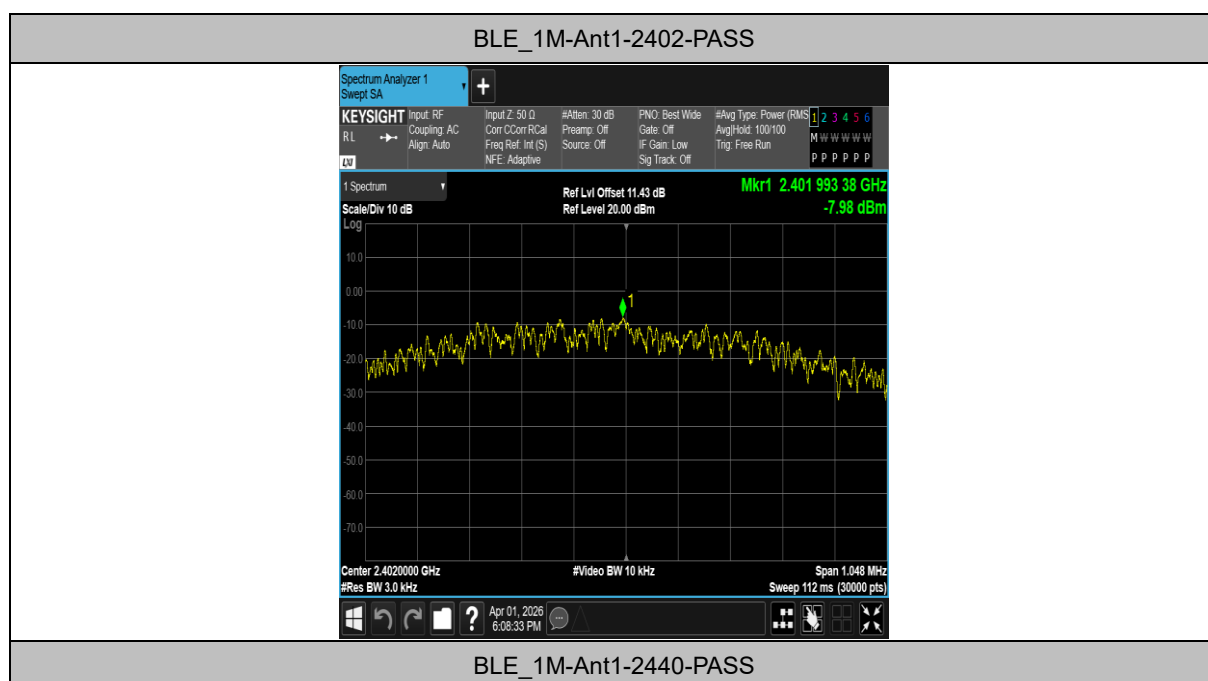


Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.98	≤8.00	PASS
BLE_1M	Ant1	2440	-7.70	≤8.00	PASS
BLE_1M	Ant1	2480	-7.09	≤8.00	PASS
BLE_2M	Ant1	2404	-7.86	≤8.00	PASS
BLE_2M	Ant1	2440	-7.68	≤8.00	PASS
BLE_2M	Ant1	2478	-6.90	≤8.00	PASS

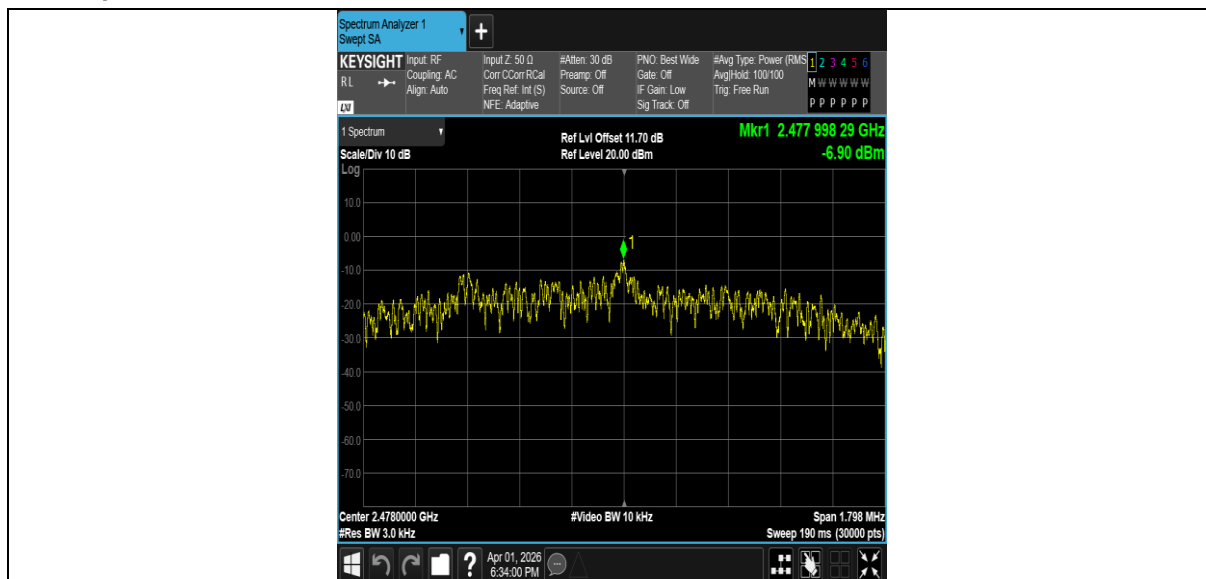
Test Graphs







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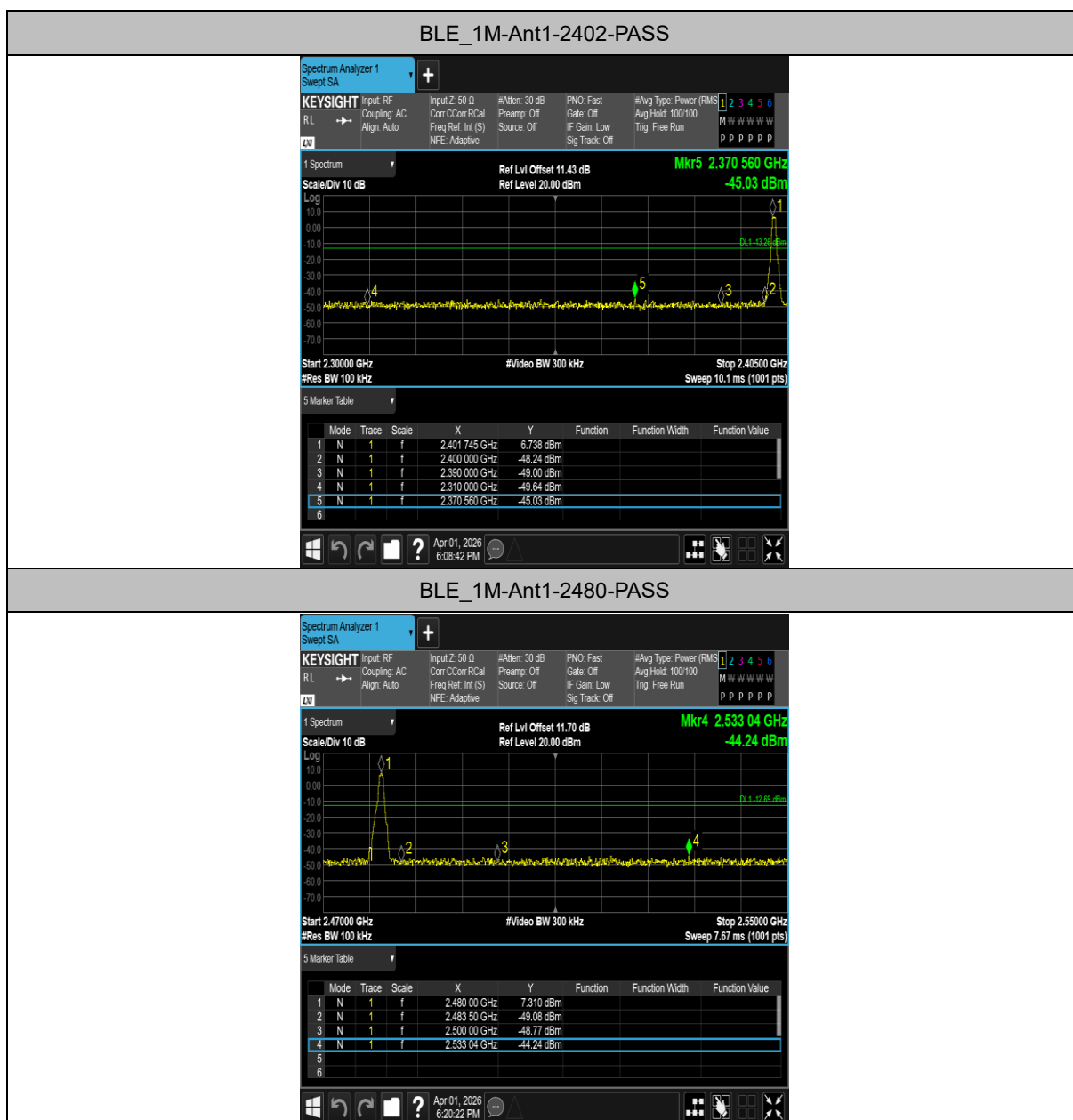
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Band edge measurements

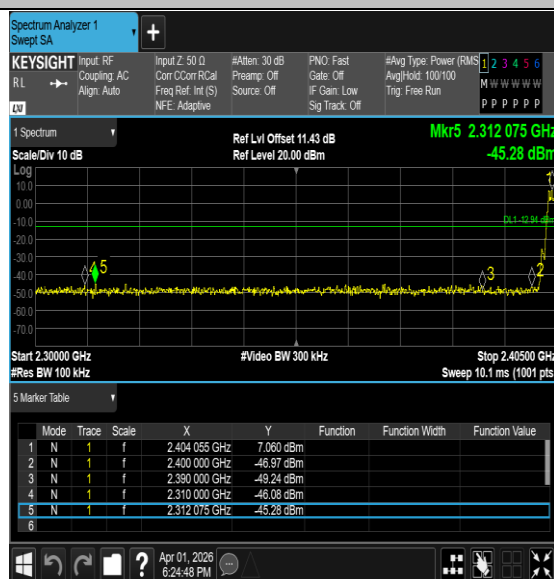
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.74	-45.03	≤-13.26	PASS
BLE_1M	Ant1	High	2480	7.31	-44.24	≤-12.69	PASS
BLE_2M	Ant1	Low	2404	7.06	-45.28	≤-12.94	PASS
BLE_2M	Ant1	High	2478	7.38	-43.61	≤-12.62	PASS

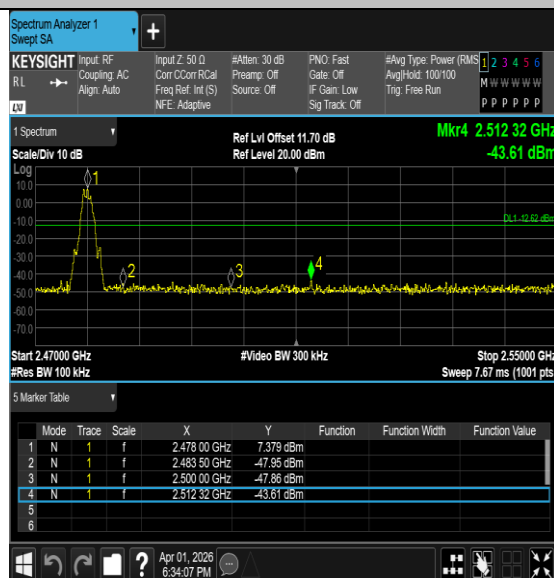
Test Graphs



BLE_2M-Ant1-2404-PASS



BLE_2M-Ant1-2478-PASS





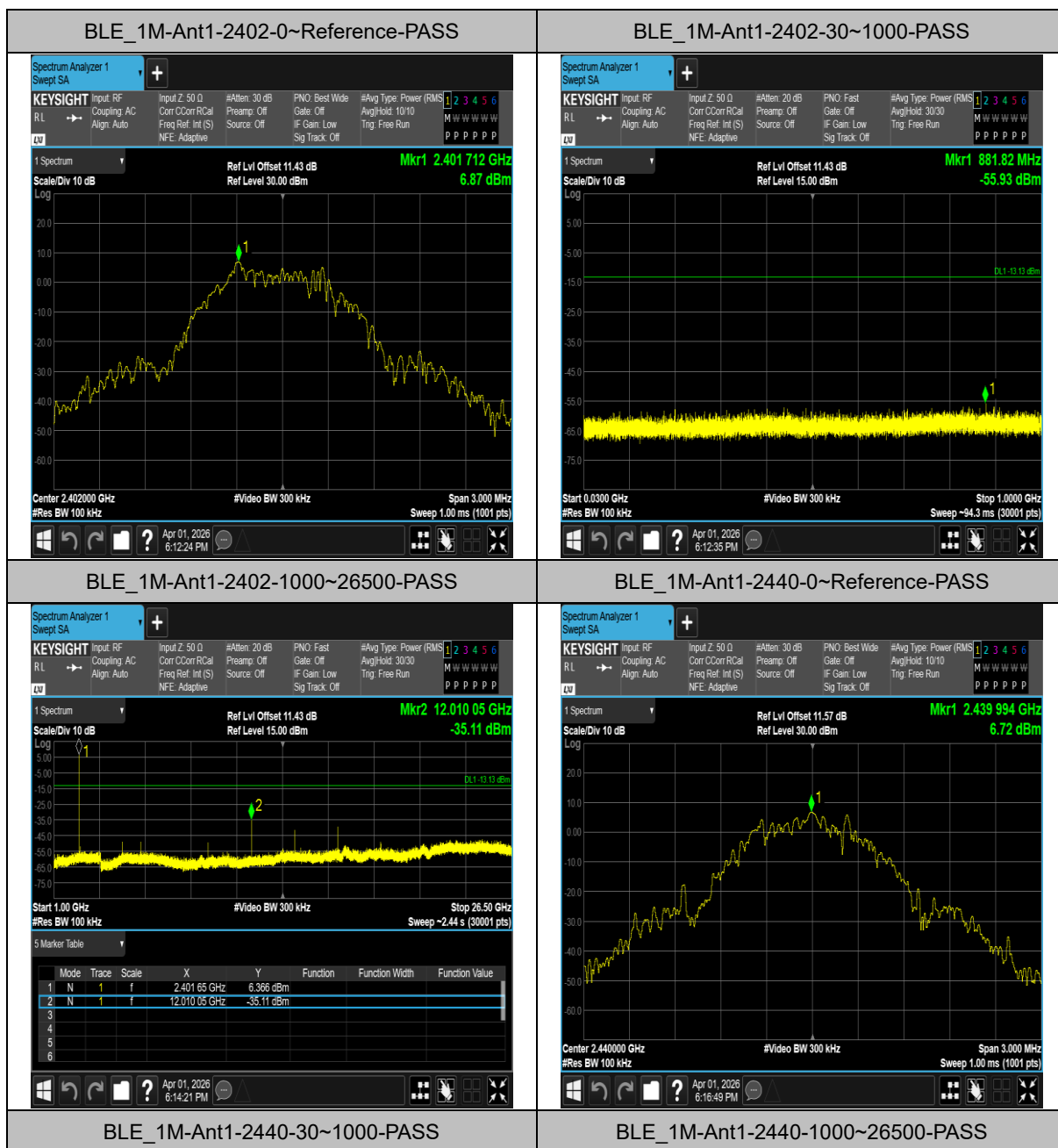
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Conducted Spurious Emission

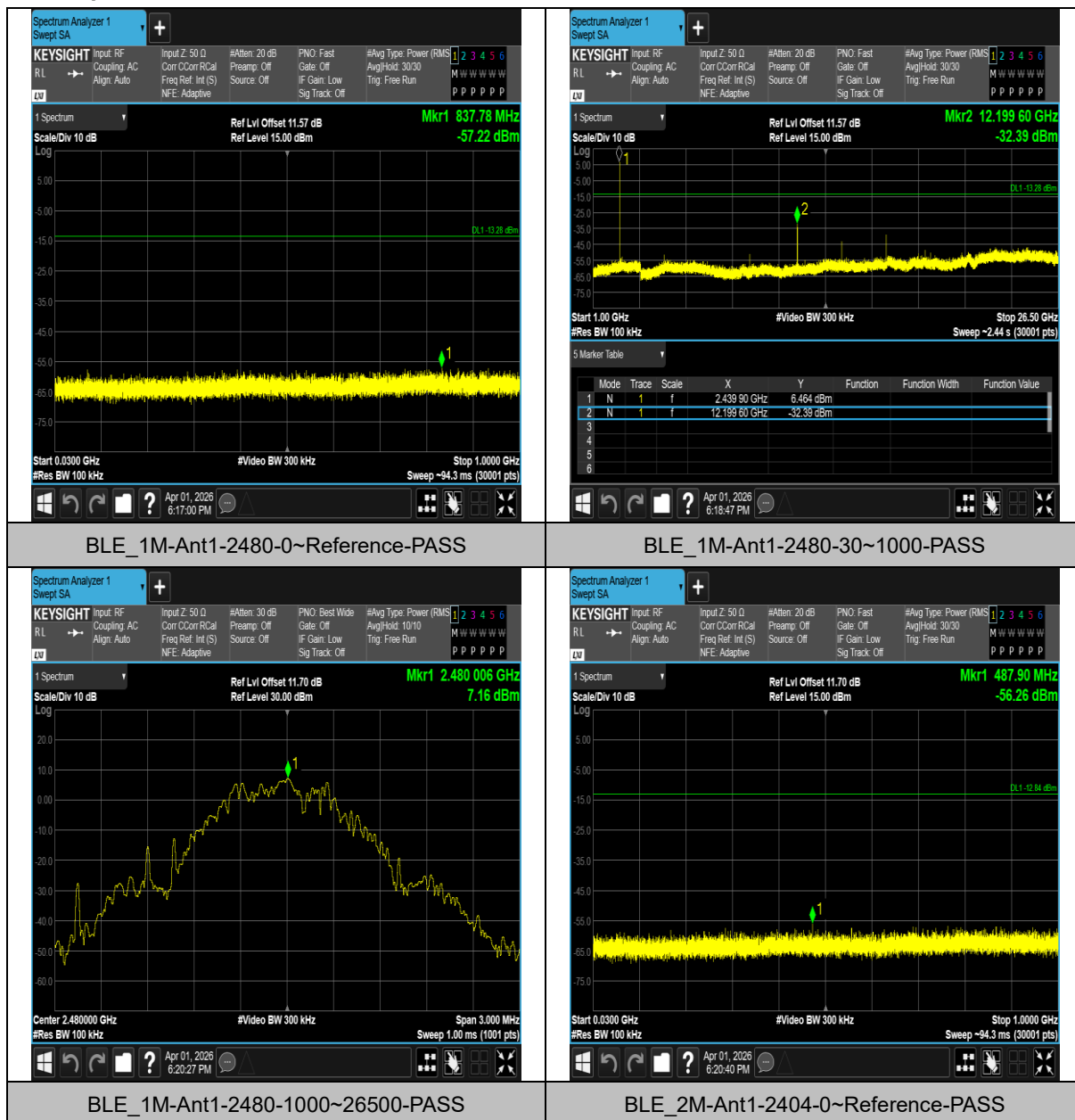
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	6.87	6.87	---	PASS
BLE_1M	Ant1	2402	30~1000	6.87	-55.93	≤-13.13	PASS
BLE_1M	Ant1	2402	1000~26500	6.87	-35.11	≤-13.13	PASS
BLE_1M	Ant1	2440	0~Reference	6.72	6.72	---	PASS
BLE_1M	Ant1	2440	30~1000	6.72	-57.22	≤-13.28	PASS
BLE_1M	Ant1	2440	1000~26500	6.72	-32.39	≤-13.28	PASS
BLE_1M	Ant1	2480	0~Reference	7.16	7.16	---	PASS
BLE_1M	Ant1	2480	30~1000	7.16	-56.26	≤-12.84	PASS
BLE_1M	Ant1	2480	1000~26500	7.16	-29.73	≤-12.84	PASS
BLE_2M	Ant1	2404	0~Reference	6.86	6.86	---	PASS
BLE_2M	Ant1	2404	30~1000	6.86	-56.65	≤-13.14	PASS
BLE_2M	Ant1	2404	1000~26500	6.86	-35.26	≤-13.14	PASS
BLE_2M	Ant1	2440	0~Reference	5.90	5.90	---	PASS
BLE_2M	Ant1	2440	30~1000	5.90	-56.33	≤-14.1	PASS
BLE_2M	Ant1	2440	1000~26500	5.90	-31.42	≤-14.1	PASS
BLE_2M	Ant1	2478	0~Reference	6.66	6.66	---	PASS
BLE_2M	Ant1	2478	30~1000	6.66	-56.84	≤-13.34	PASS
BLE_2M	Ant1	2478	1000~26500	6.66	-32.8	≤-13.34	PASS

Test Graphs



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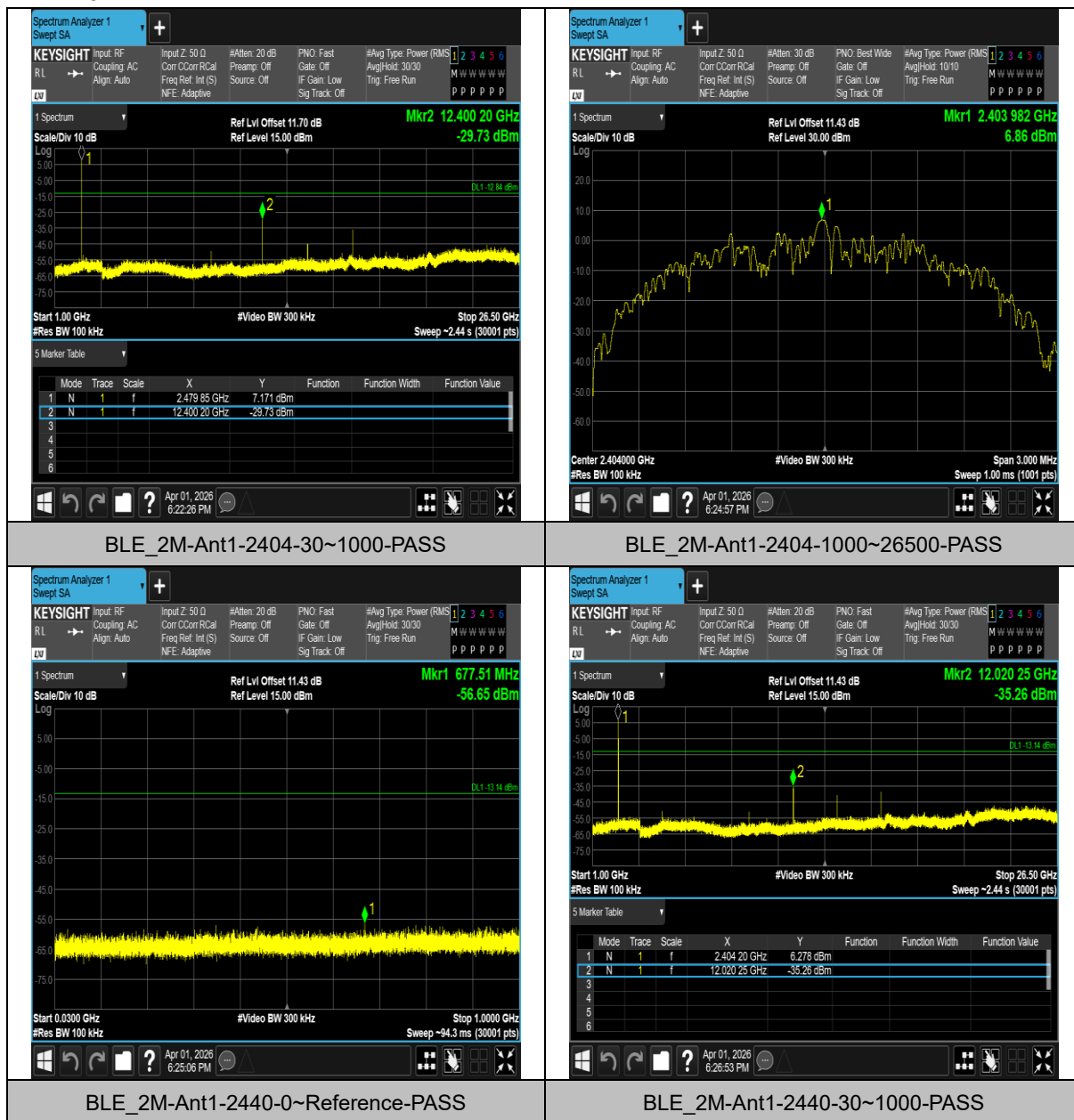


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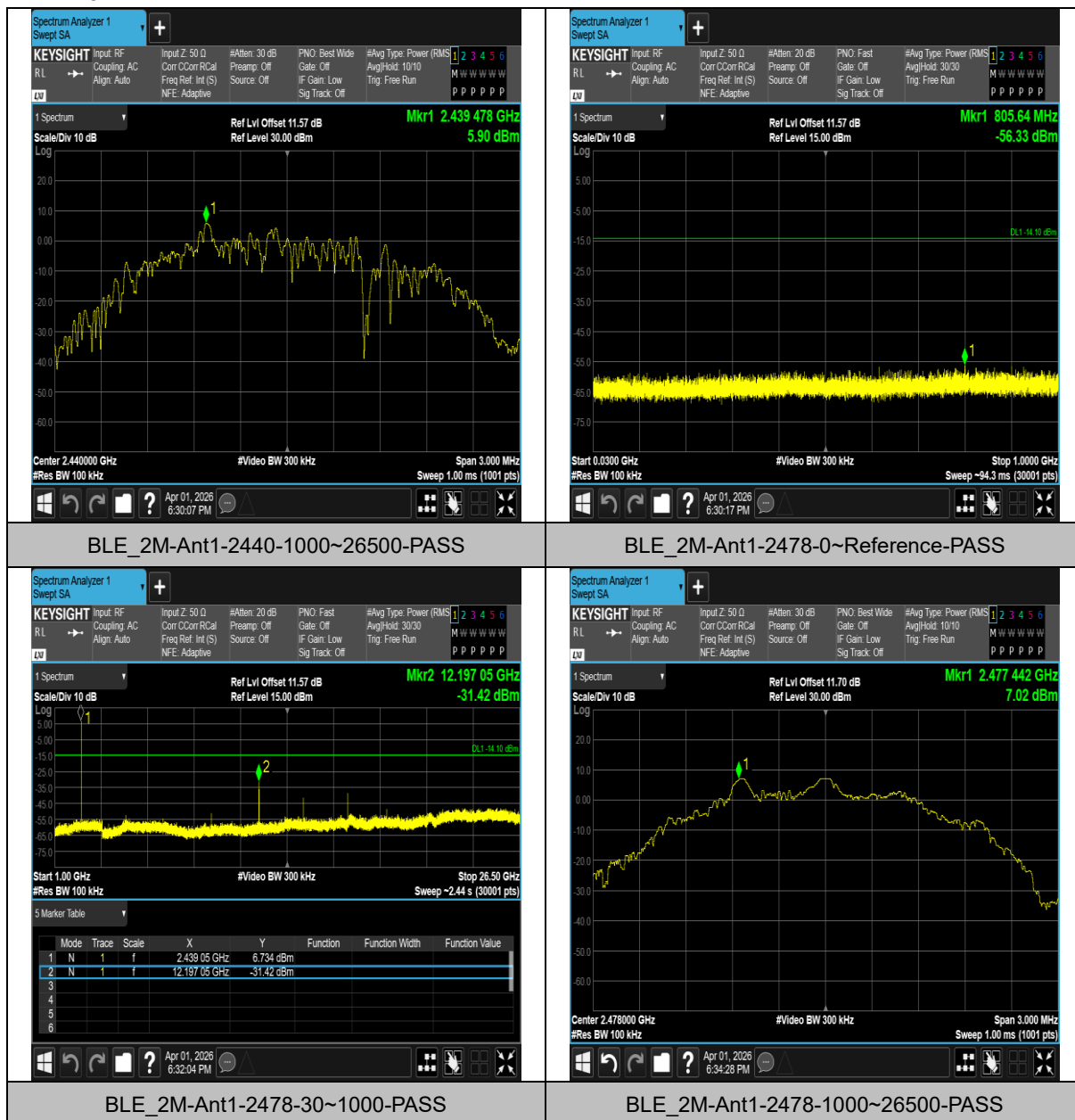


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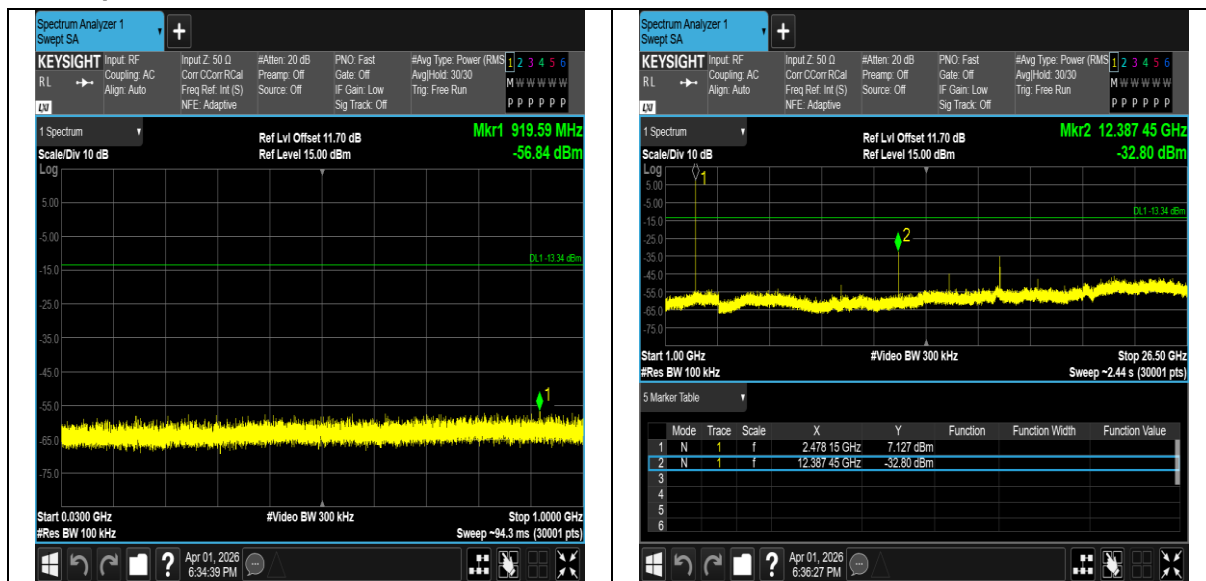


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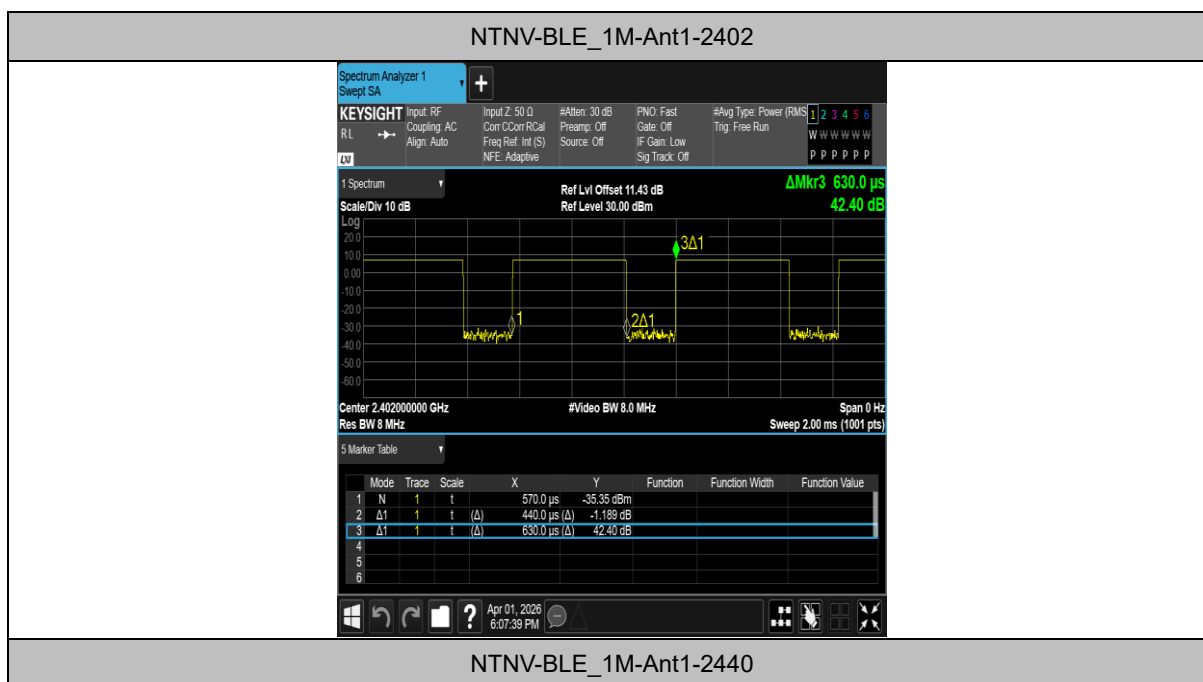
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Duty Cycle

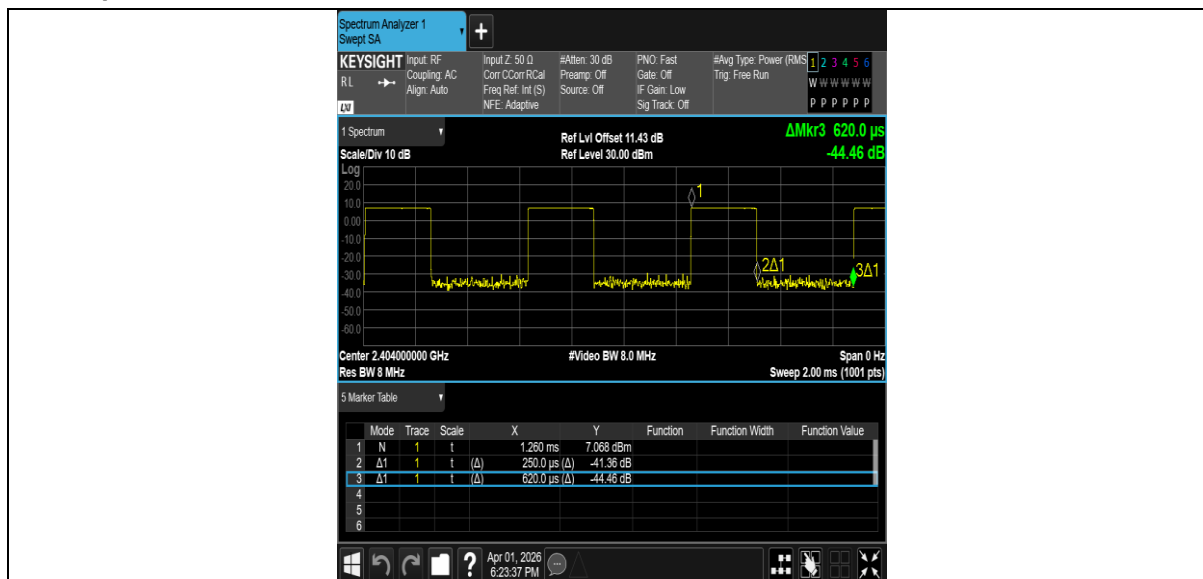
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.44	0.63	69.84	1.56
BLE_1M	Ant1	2440	0.44	0.63	69.84	1.56
BLE_1M	Ant1	2480	0.43	0.62	69.35	1.59
BLE_2M	Ant1	2404	0.25	0.62	40.32	3.94
BLE_2M	Ant1	2440	0.25	0.62	40.32	3.94
BLE_2M	Ant1	2478	0.25	0.63	39.68	4.01

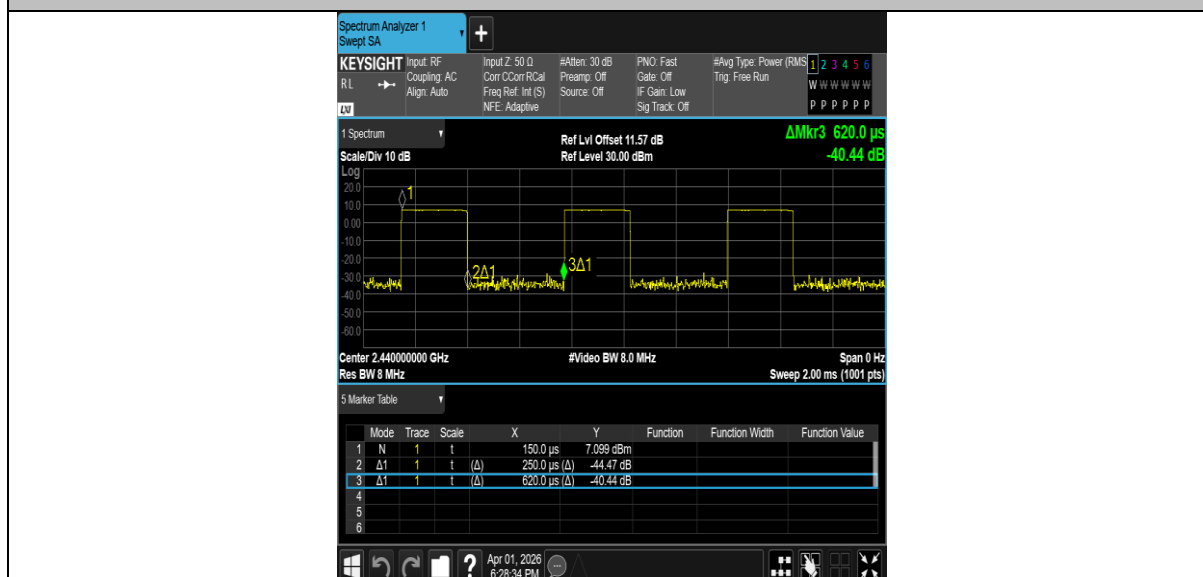
Test Graphs



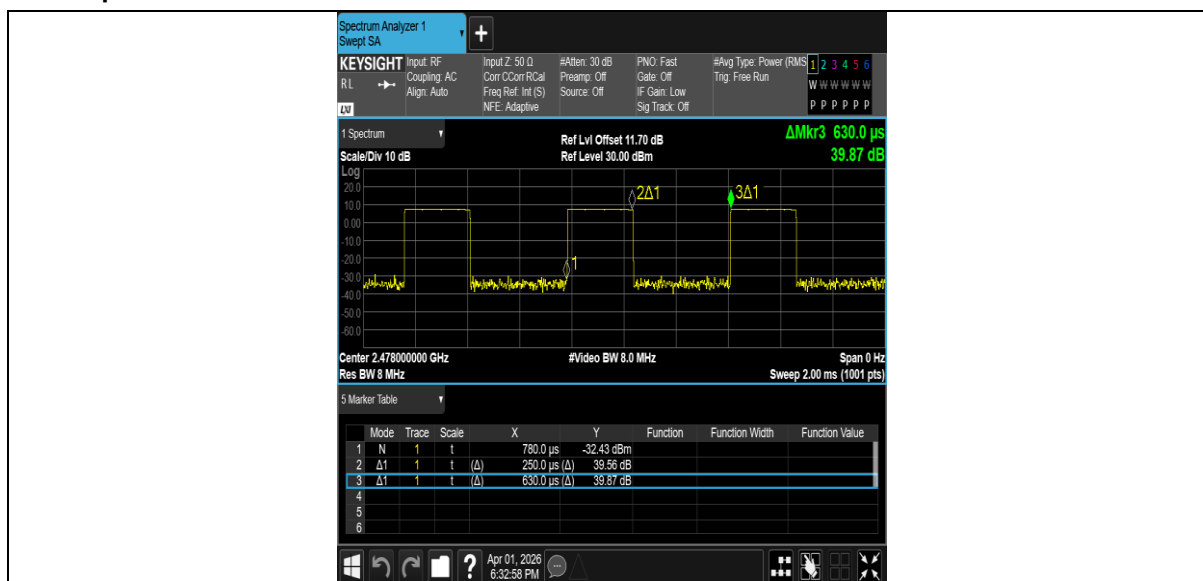




NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2478



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