

7.5.5. Test Result

Environment: 23.2°C/49%RH/101.0kPa

Voltage:DC 7.3V

Tested By: Chuang Li

Date: 2025-02-12

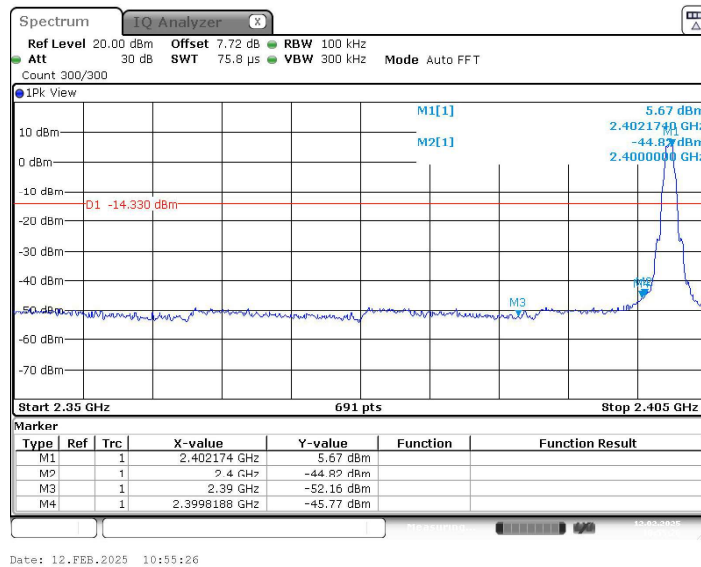
Band edge measurements

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.67	-45.77	≤-14.33	PASS
		High	2480	5.93	-48.27	≤-14.07	PASS
BLE_2M	Ant1	Low	2402	3.45	-28.36	≤-16.55	PASS
		High	2480	3.66	-47.13	≤-16.34	PASS

BLE_1M

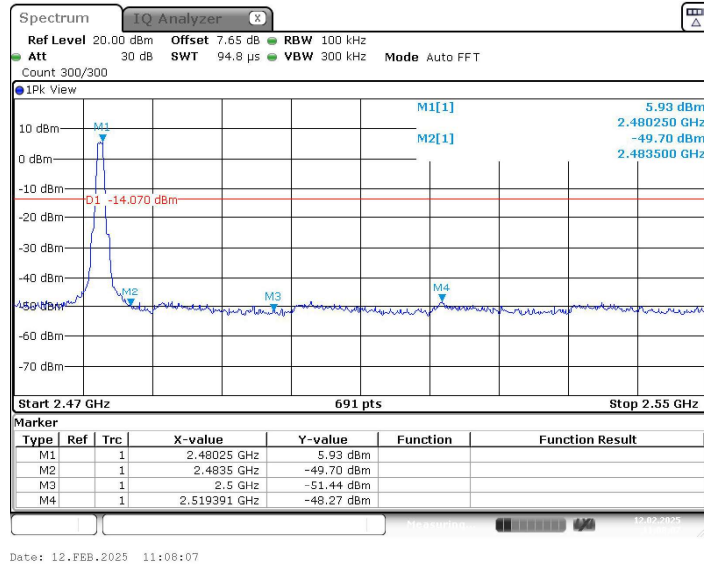
Lowest Frequency (2402MHz)

2.35GHz-2.405GHz



Highest Frequency (2480MHz)

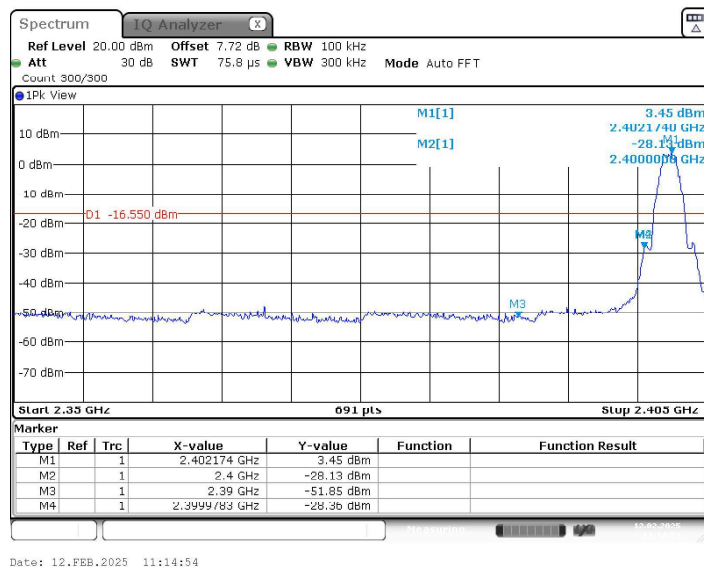
2.47GHz-2.55GHz



BLE_2M

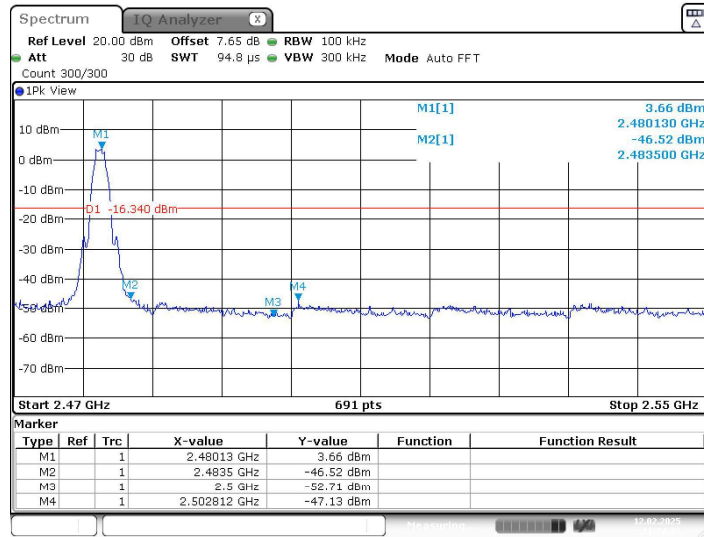
Lowest Frequency (2402MHz)

2.35GHz-2.405GHz



Highest Frequency (2480MHz)

2.47GHz-2.55GHz

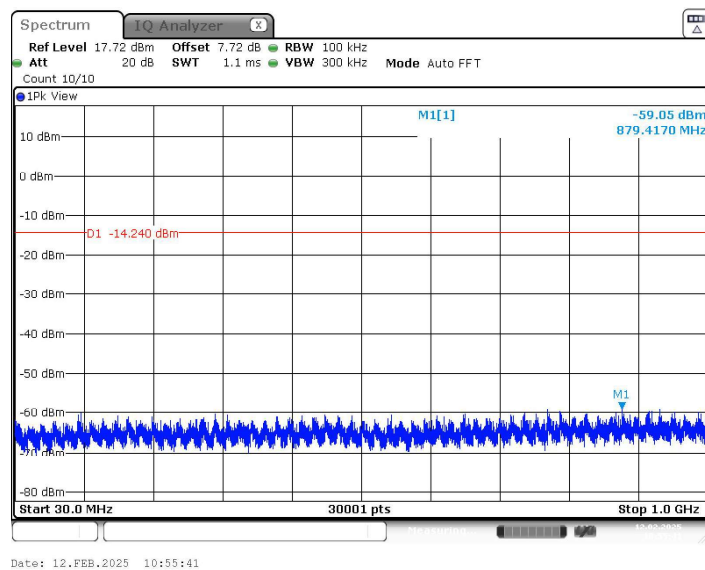


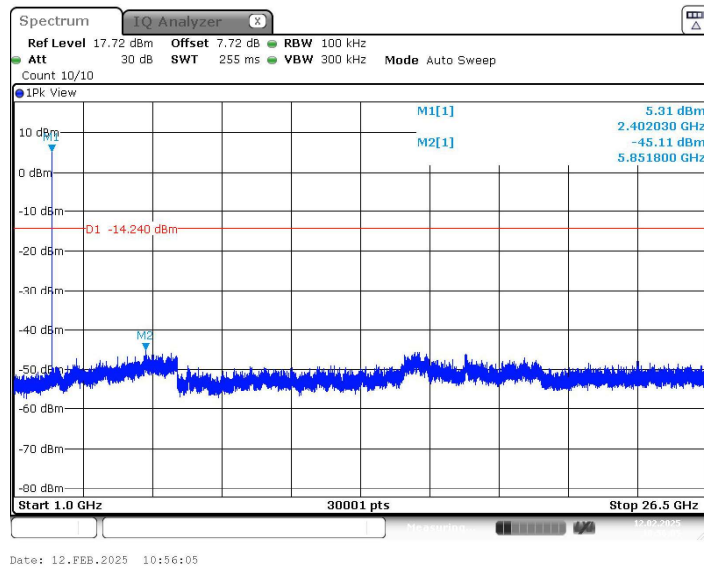
Conducted Spurious Emission

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.76	5.76	---	PASS
			30~1000	5.76	-59.05	≤-14.24	PASS
			1000~26500	5.76	-45.11	≤-14.24	PASS
		2440	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-58.67	≤-13.98	PASS
			1000~26500	6.02	-45.46	≤-13.98	PASS
		2480	Reference	5.86	5.86	---	PASS
			30~1000	5.86	-59.65	≤-14.14	PASS
			1000~26500	5.86	-45.4	≤-14.14	PASS
BLE_2M	Ant1	2402	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-58.85	≤-16.44	PASS
			1000~26500	3.56	-45.04	≤-16.44	PASS
		2440	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-58.79	≤-16.22	PASS
			1000~26500	3.78	-44.74	≤-16.22	PASS
		2480	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-59.55	≤-16.4	PASS
			1000~26500	3.60	-44.89	≤-16.4	PASS

BLE_1M

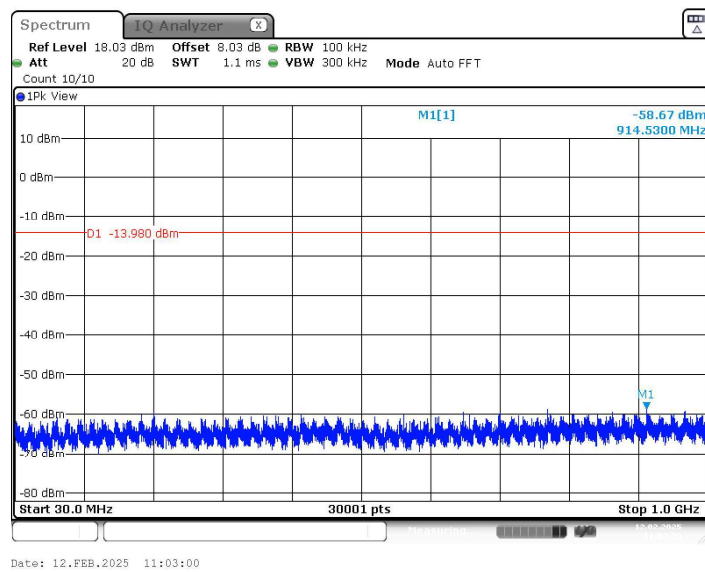
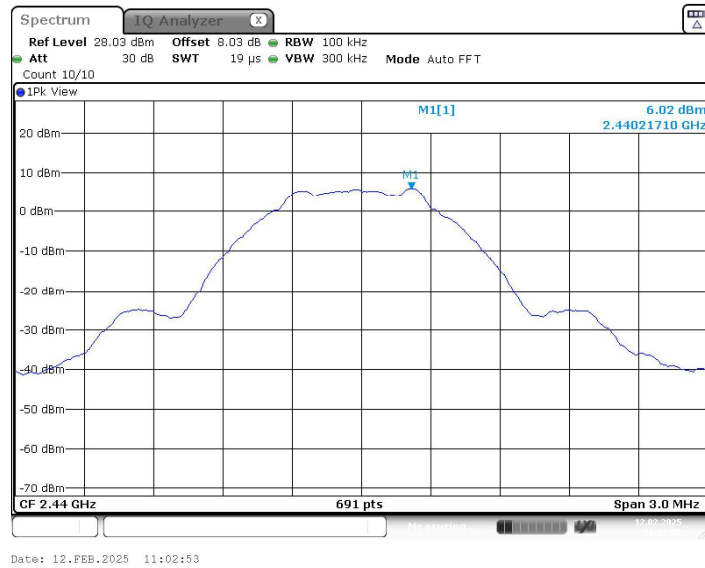
Lowest Frequency (2402MHz)

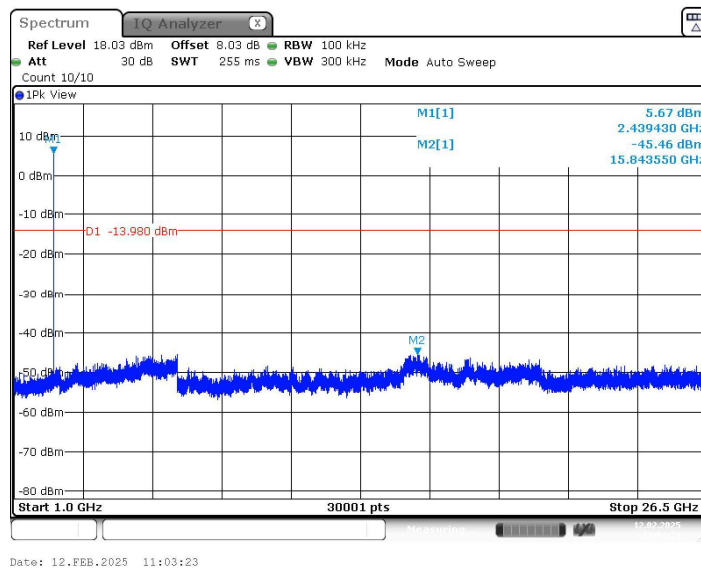




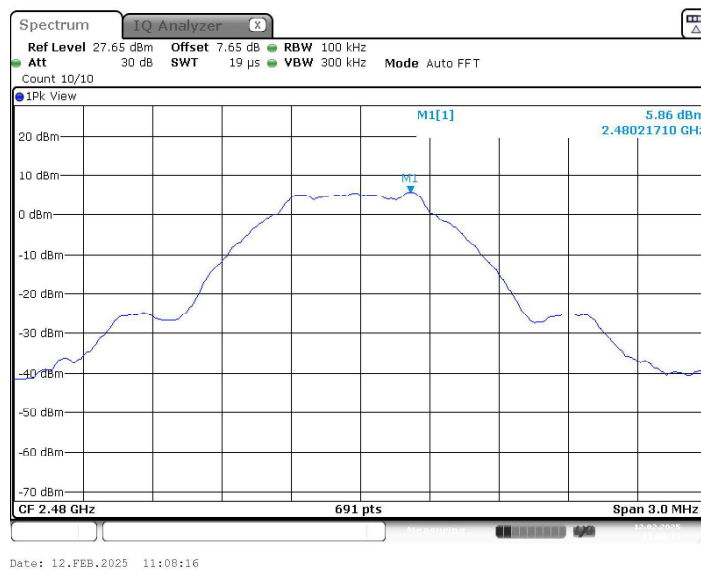
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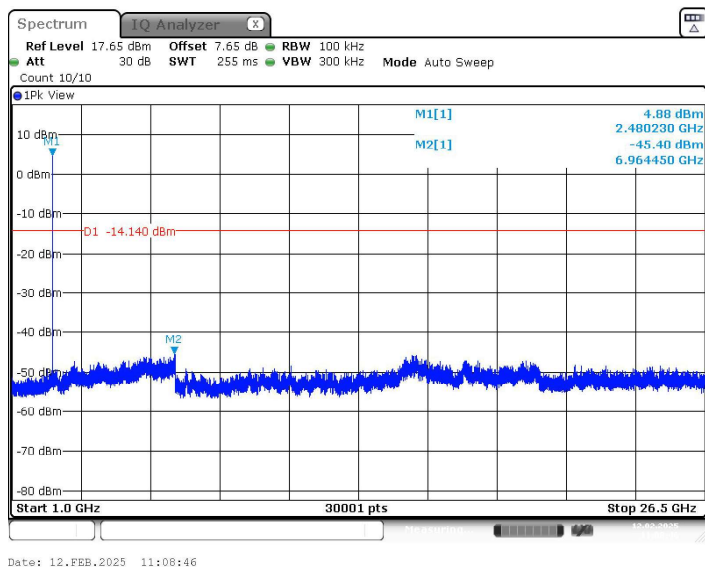
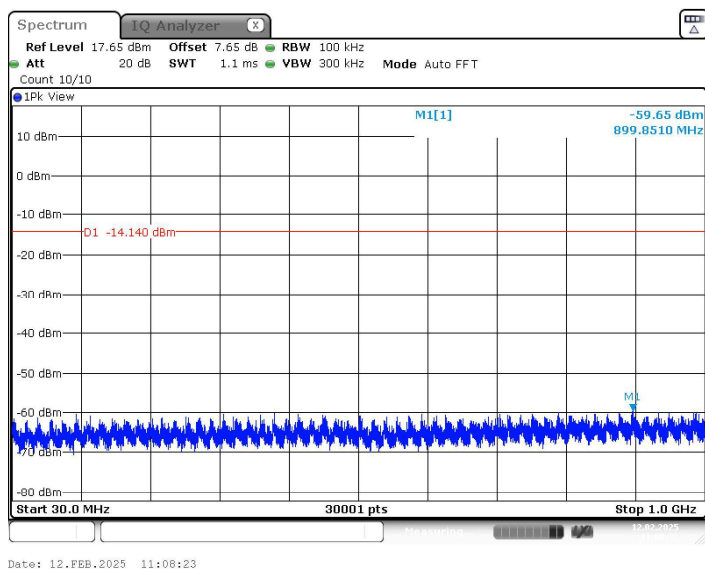
Middle Frequency (2440MHz)





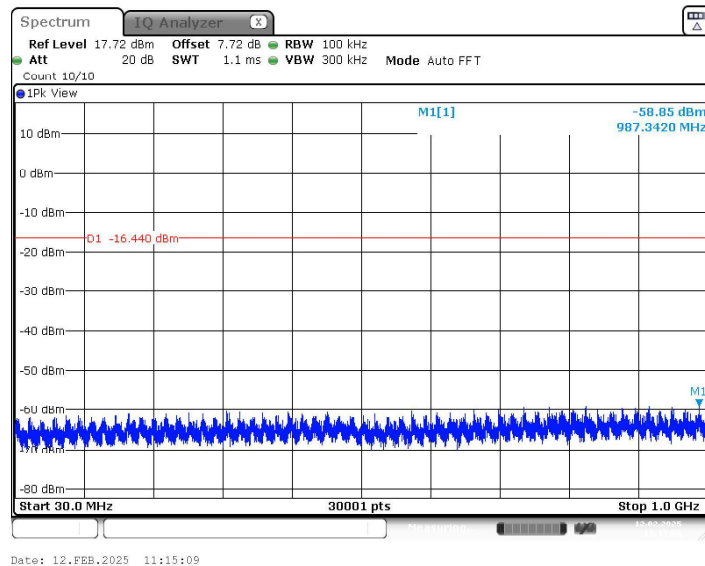
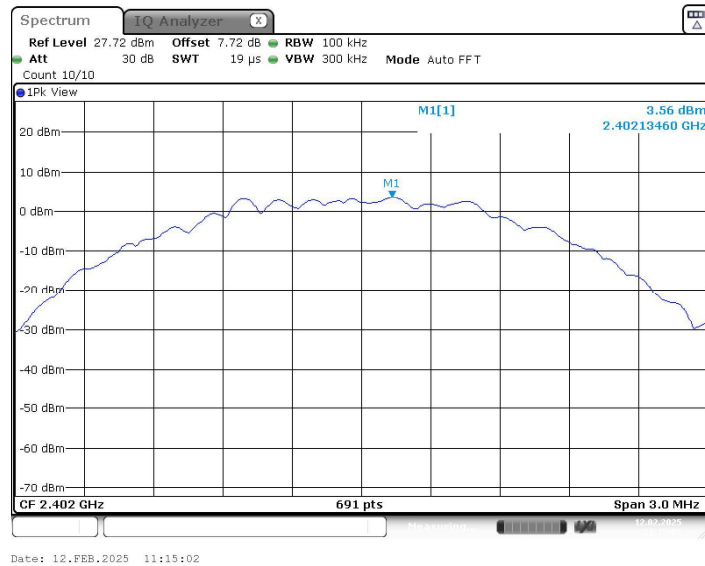
Highest Frequency (2480MHz)

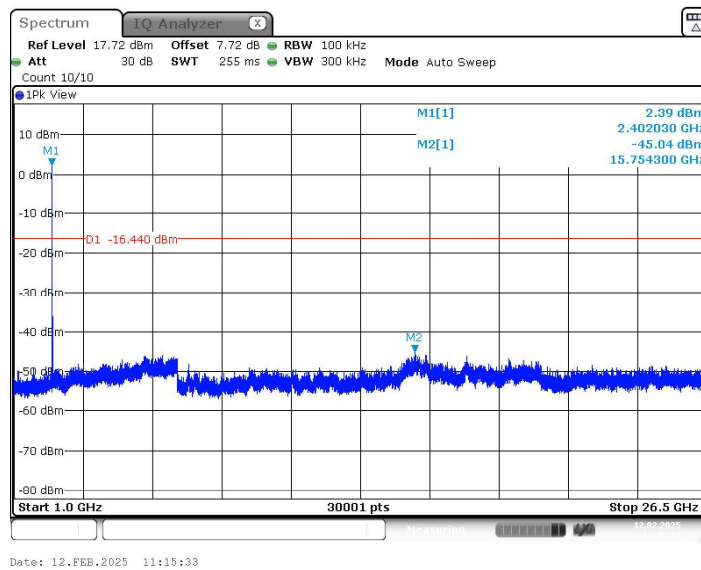




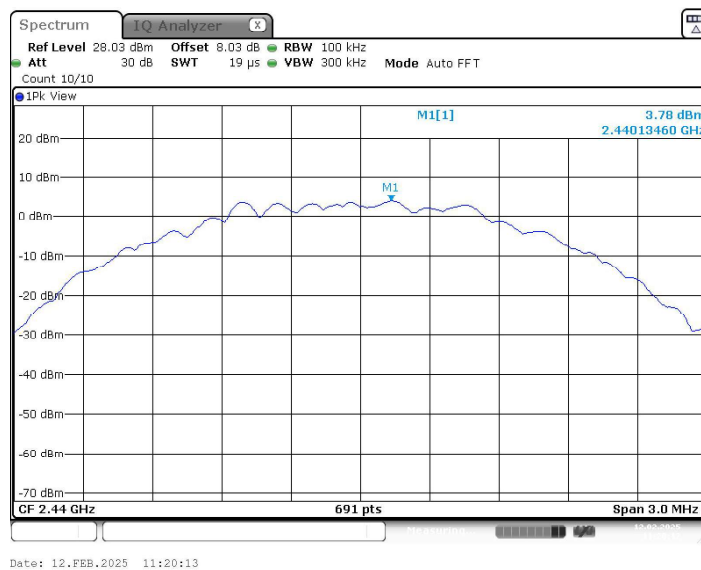
BLE_2M

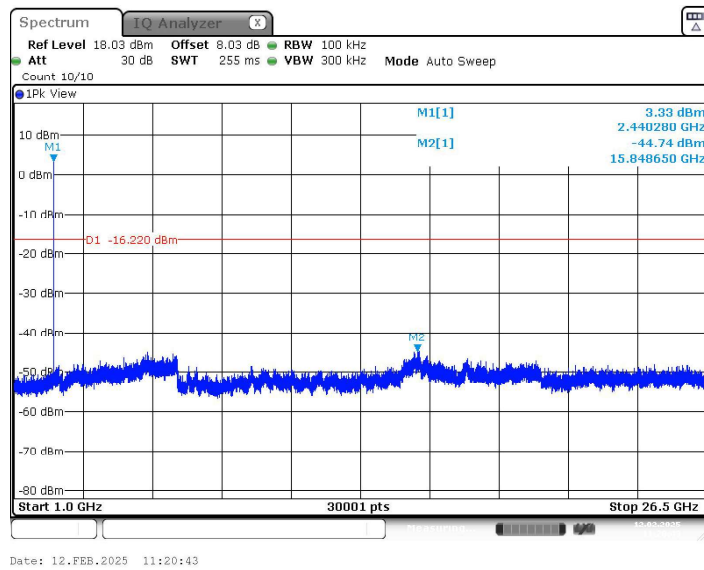
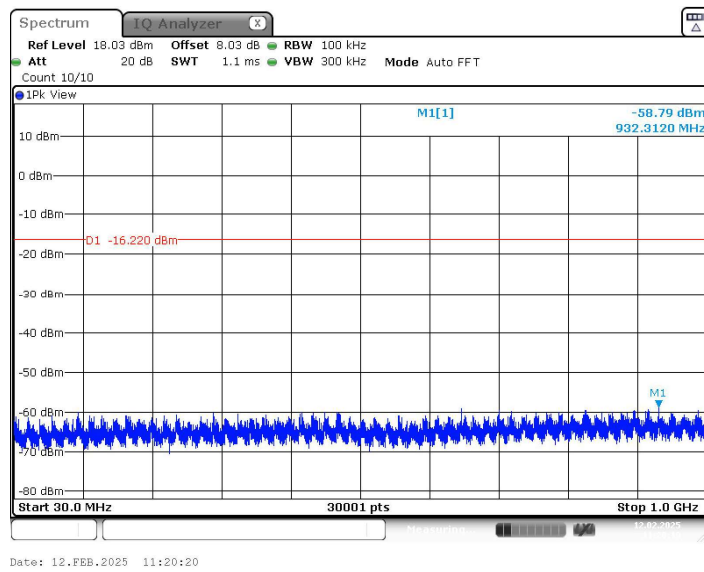
Lowest Frequency (2402MHz)



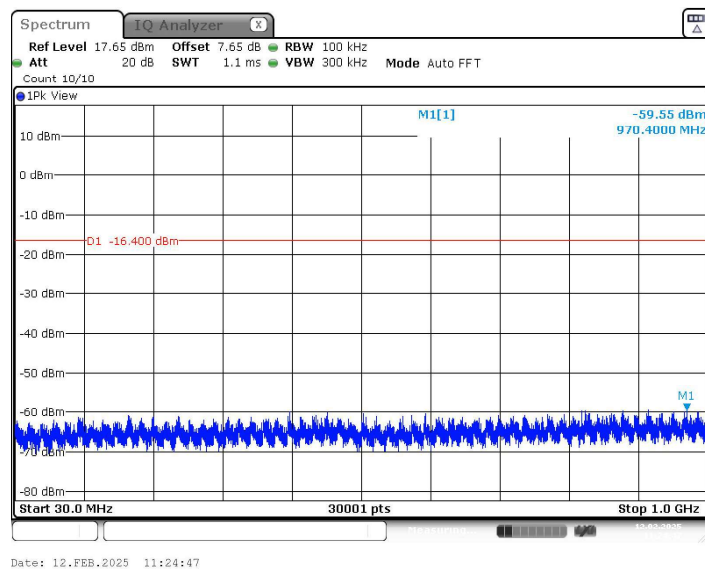
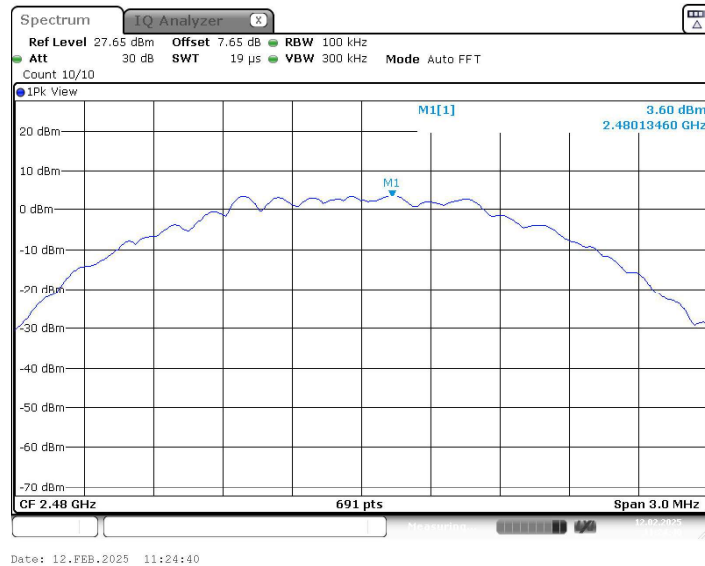


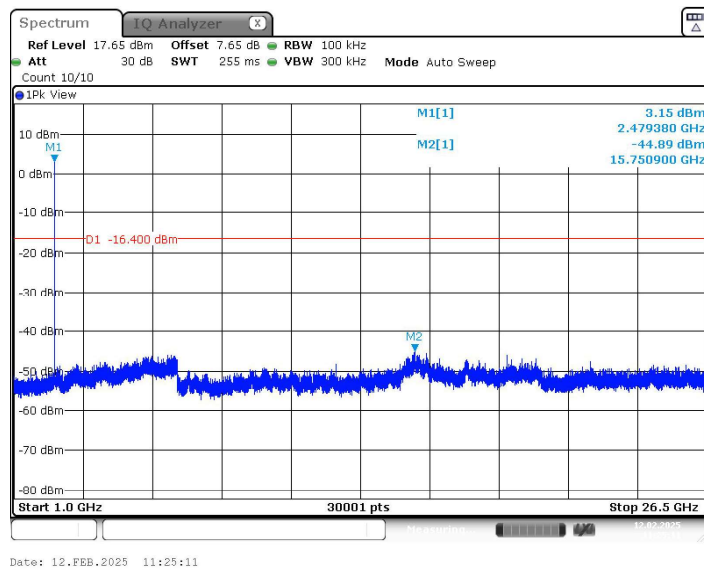
Middle Frequency (2440MHz)





Highest Frequency (2480MHz)





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7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW = 3MHz
- Detector = Power Average (RMS)
- Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
- Sweep time = auto
- Trace (RMS) averaging was performed over at least 100 traces.