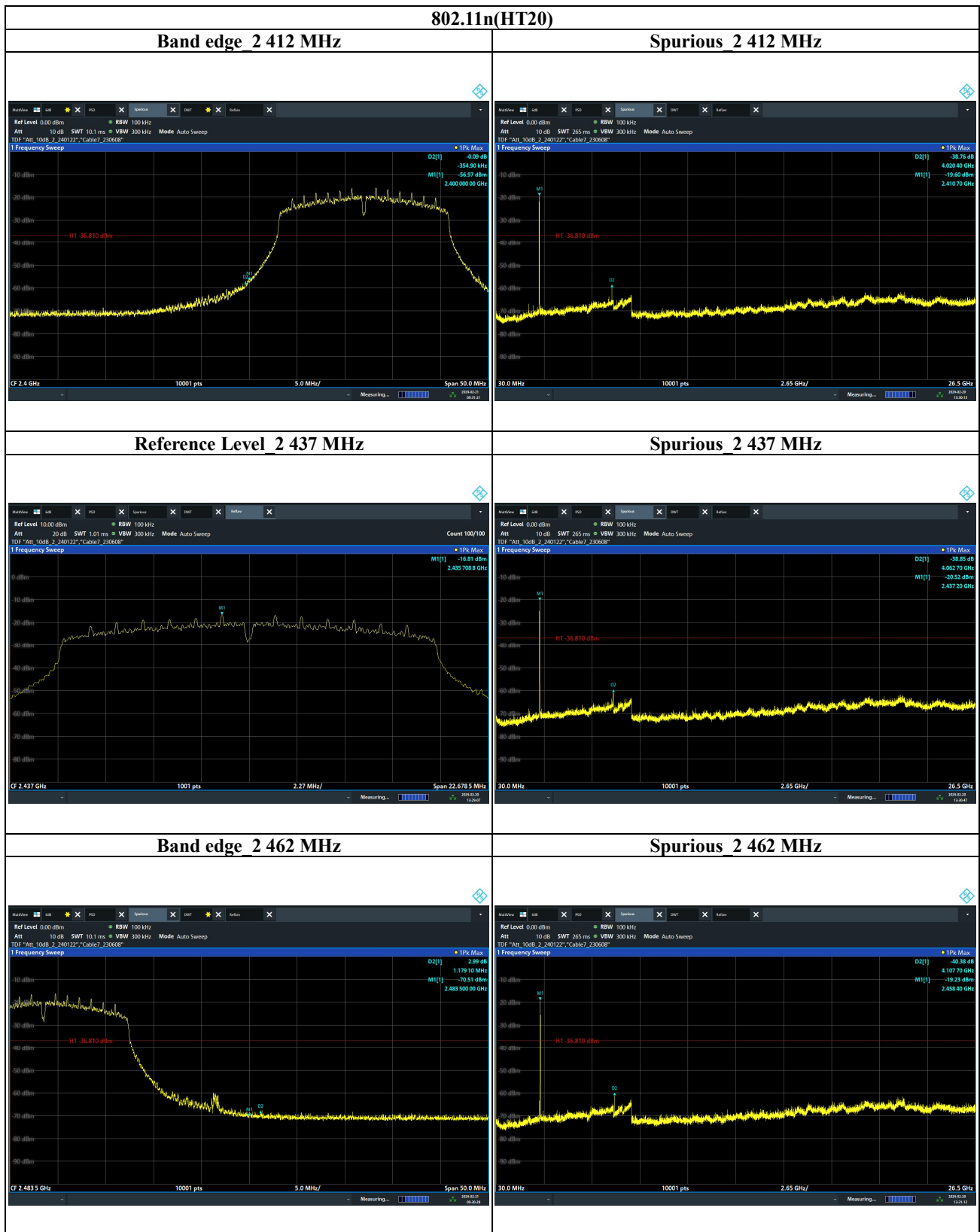


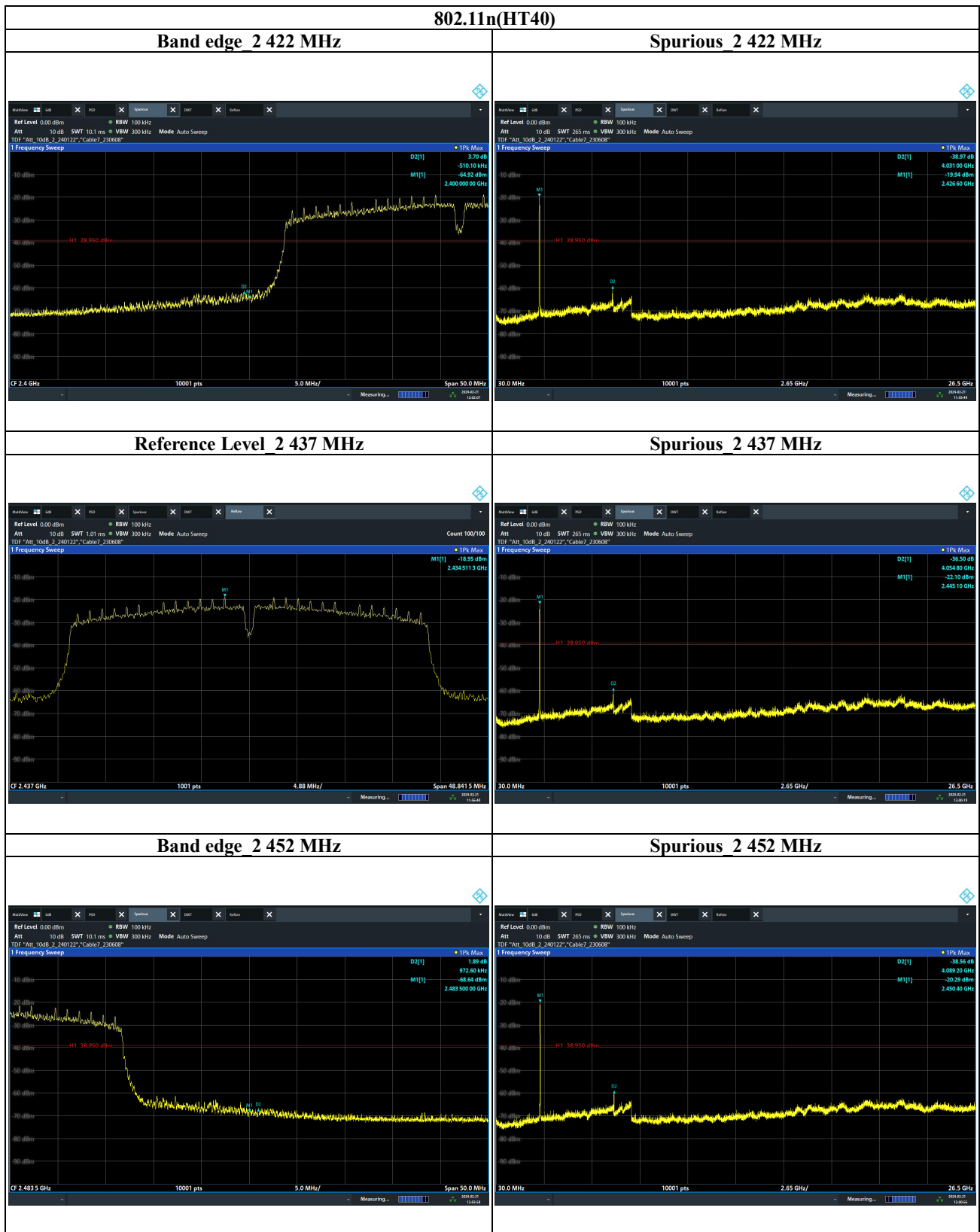


KIEL2403-YW03402-R01



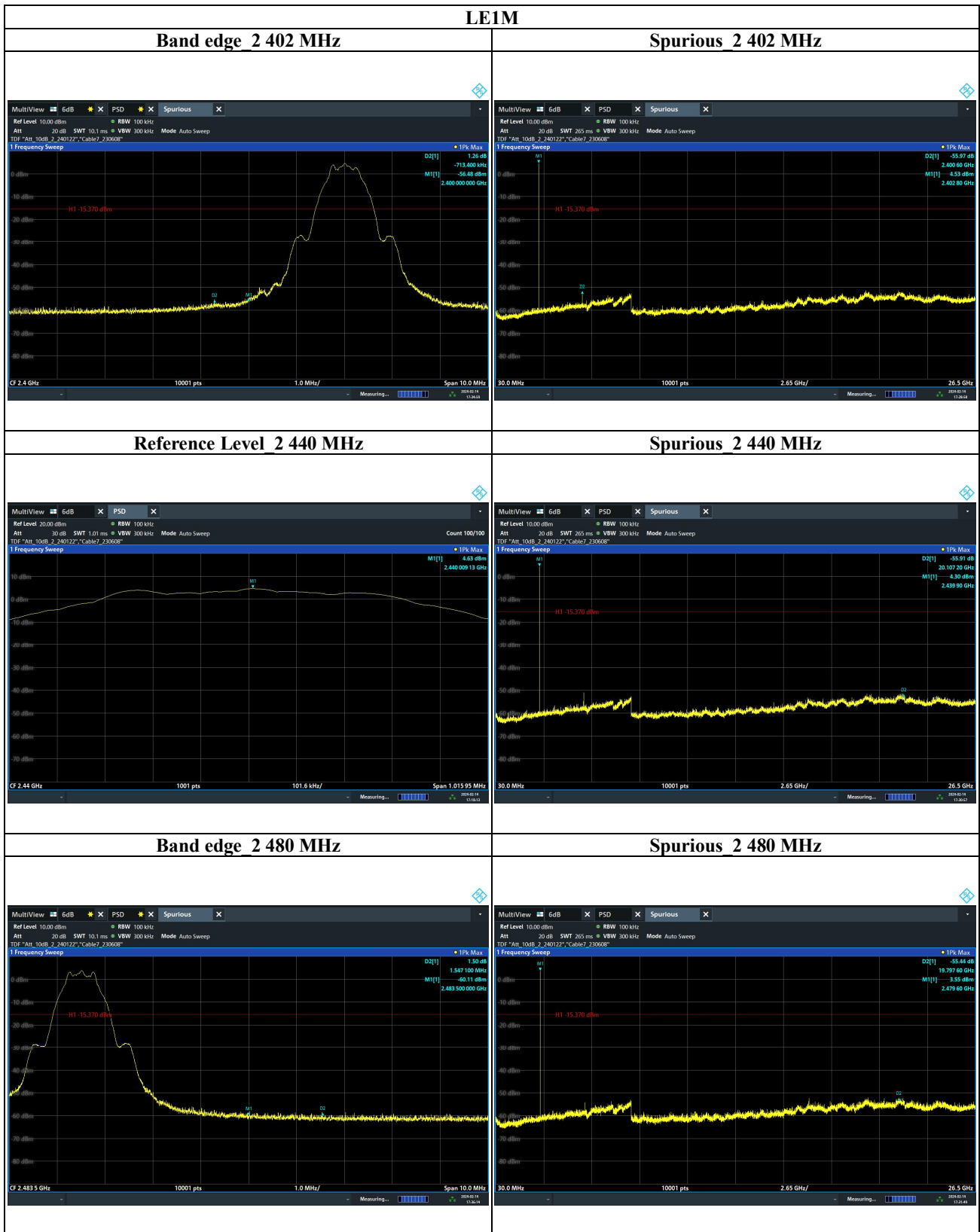


KIEL2403-YW03402-R01



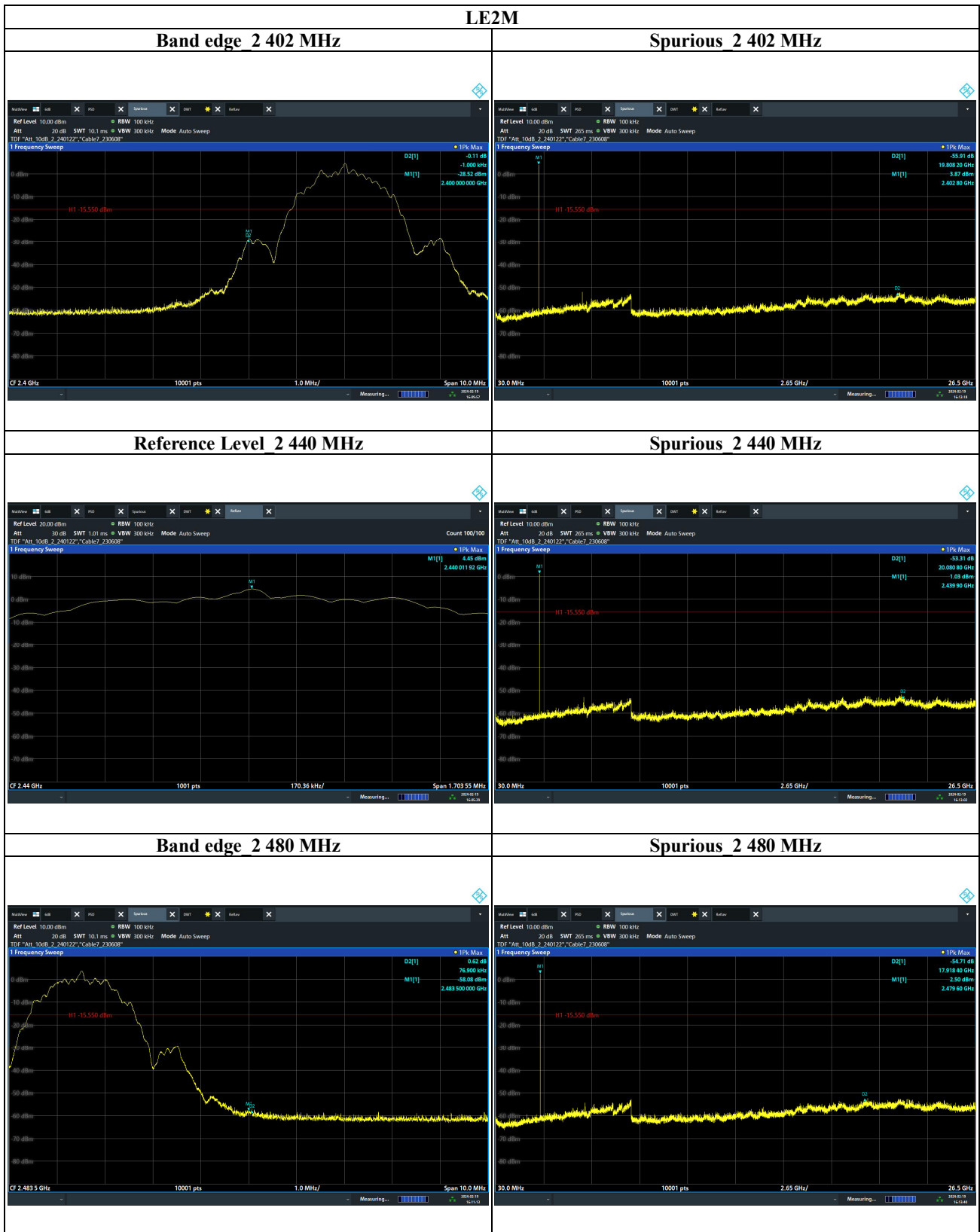


KIEL2403-YW03402-R01





KIEL2403-YW03402-R01



6.6 AC Conducted Emissionss (150 kHz to 30 MHz)

6.6.1 Regulation

§15.207(a) : Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

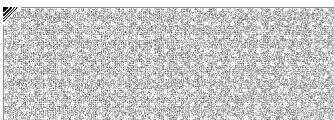
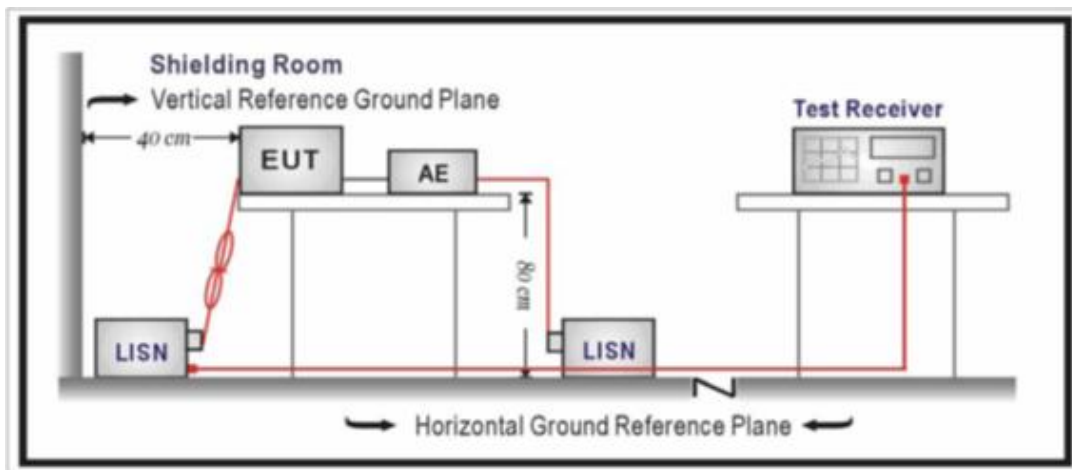
* Decreases with the logarithm of the frequency.

6.6.2 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm / 50 μ H of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Remark : The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

6.6.3 Test Setup

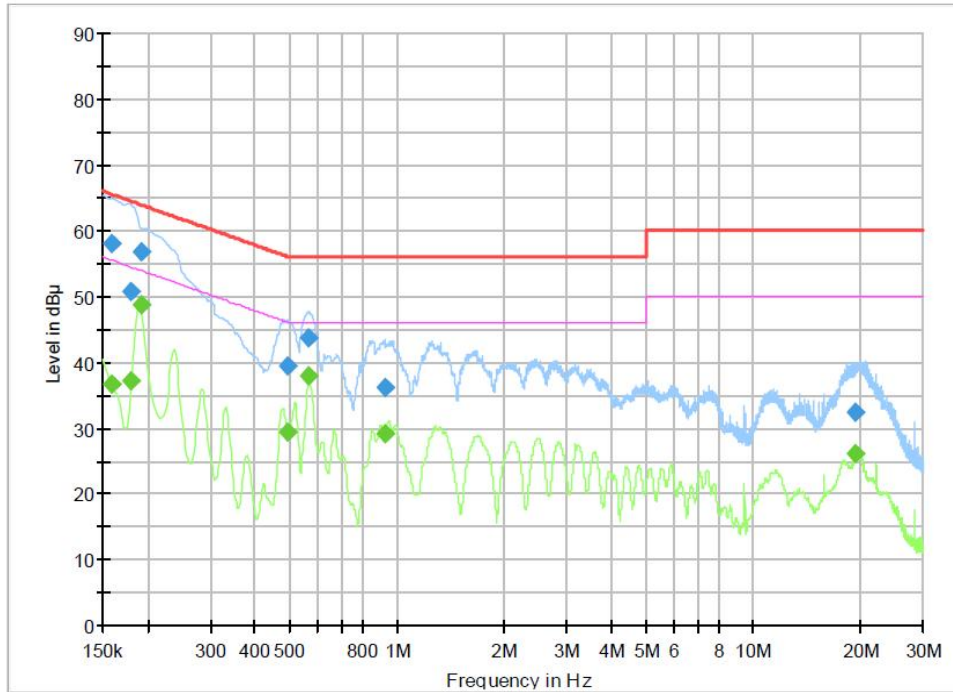




KIEL2403-YW03402-R01

6.6.4 Test Result

Worst Case - 802.11n(HT40)



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159	---	36.75	55.52	18.76	9.0	N	ON	9.8
0.159	57.96	---	65.52	7.56	9.0	N	ON	9.8
0.179	---	37.28	54.52	17.24	9.0	N	ON	9.8
0.179	50.70	---	64.52	13.82	9.0	N	ON	9.8
0.193	56.93	---	63.92	6.99	9.0	L1	ON	9.9
0.193	---	48.74	53.92	5.17	9.0	L1	ON	9.9
0.497	39.49	---	56.06	16.57	9.0	L1	ON	9.8
0.497	---	29.39	46.06	16.67	9.0	L1	ON	9.8
0.569	43.86	---	56.00	12.14	9.0	L1	ON	9.8
0.569	---	38.01	46.00	7.99	9.0	L1	ON	9.8
0.926	36.08	---	56.00	19.92	9.0	L1	ON	9.7
0.926	---	29.05	46.00	16.95	9.0	L1	ON	9.7
19.435	---	26.14	50.00	23.86	9.0	N	ON	9.9
19.435	32.54	---	60.00	27.46	9.0	N	ON	9.9

Note)

1. Final Value (QP and/or CAV) = Reading Value (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
2. Margin (QP and/or CAV) = Limit – Final Value (QP and/or CAV)
3. Two graphs measured for both Live (L1) and Neutral (N) of the LISN are combined into one graph.

- END of report -

