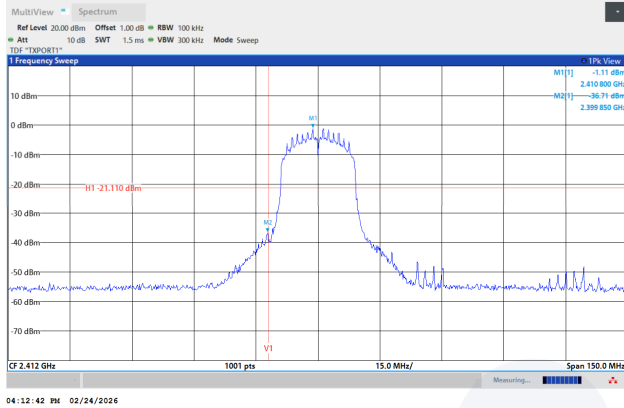
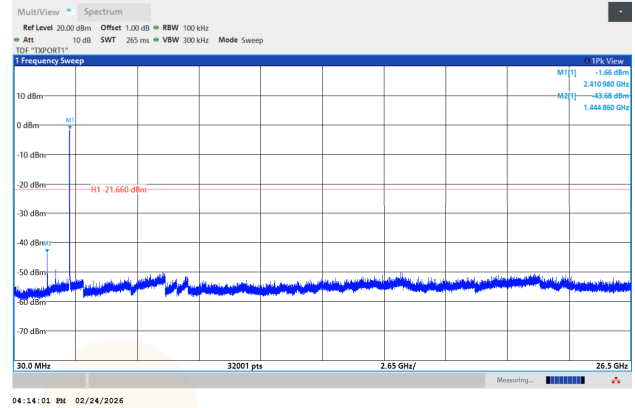


802.11n HT20

Conducted band-edge / 2 412 MHz



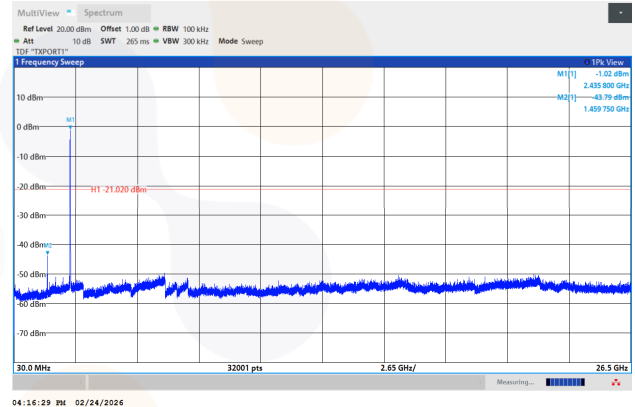
Conducted spurious / 2 412 MHz



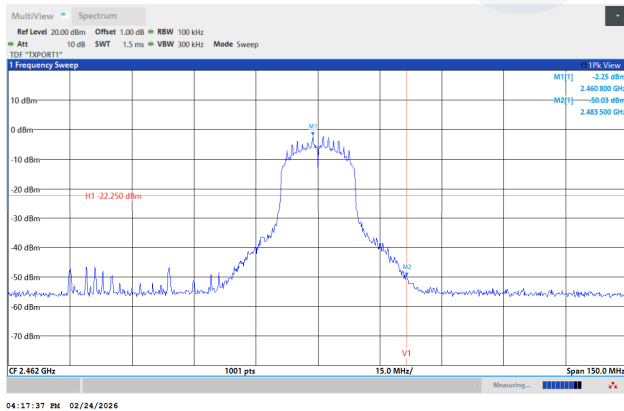
Conducted band-edge / 2 437 MHz

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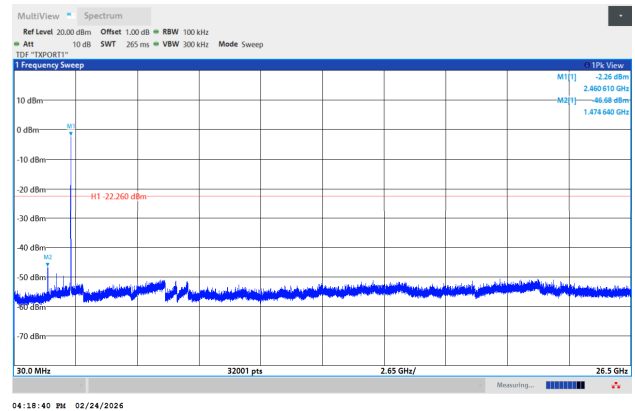
Conducted spurious / 2 437 MHz



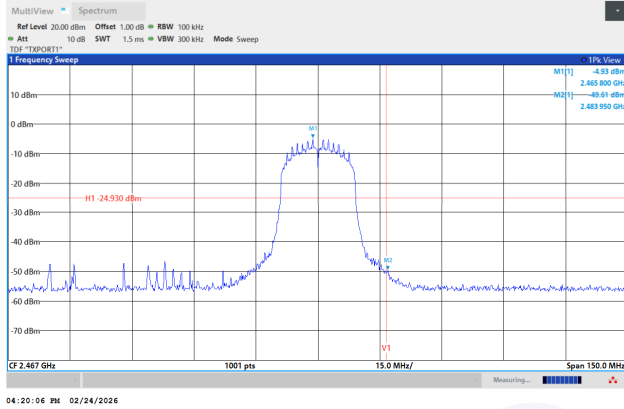
Conducted band-edge / 2 462 MHz



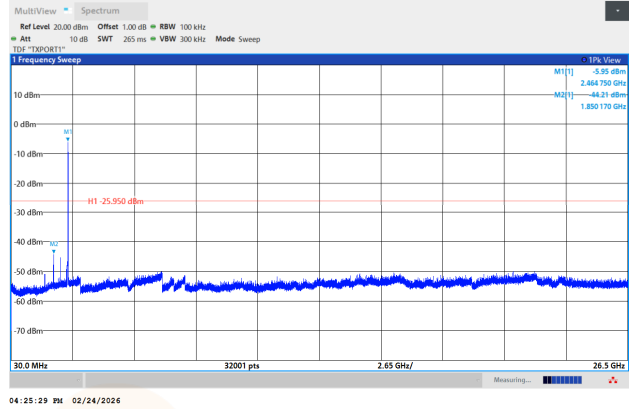
Conducted spurious / 2 462 MHz



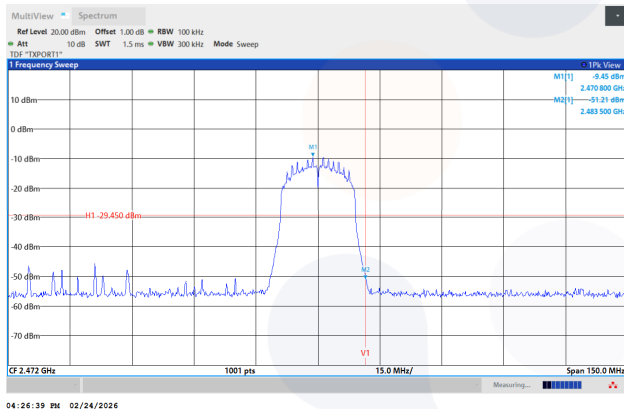
Conducted band-edge / 2 467 MHz



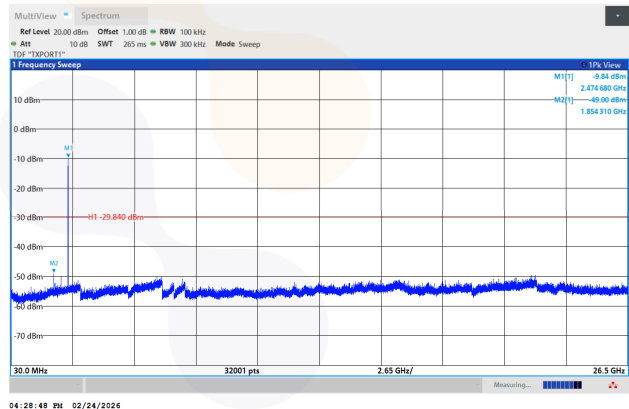
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz

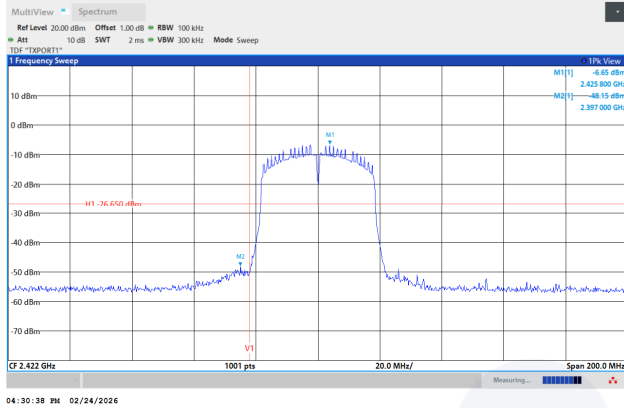


Conducted spurious / 2 472 MHz

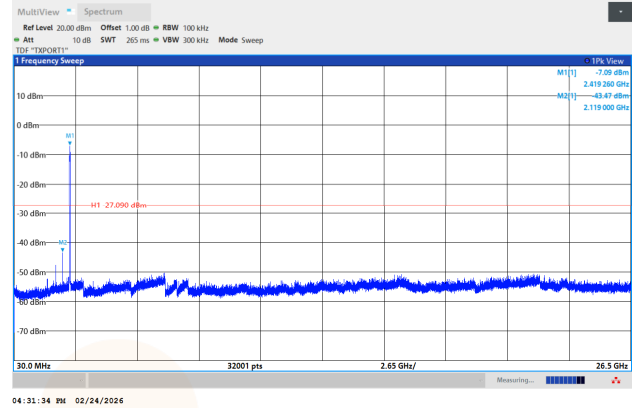


802.11n HT40

Conducted band-edge / 2 422 MHz



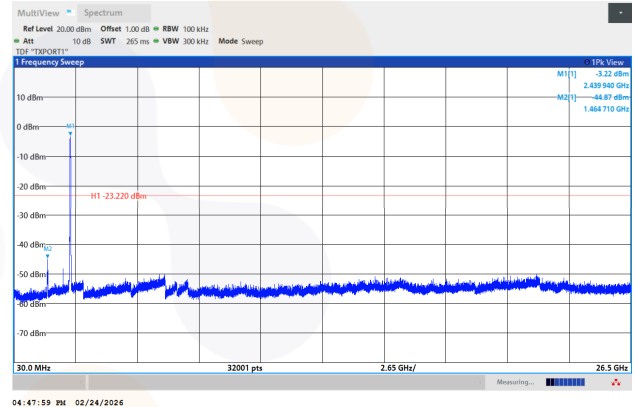
Conducted spurious / 2 422 MHz



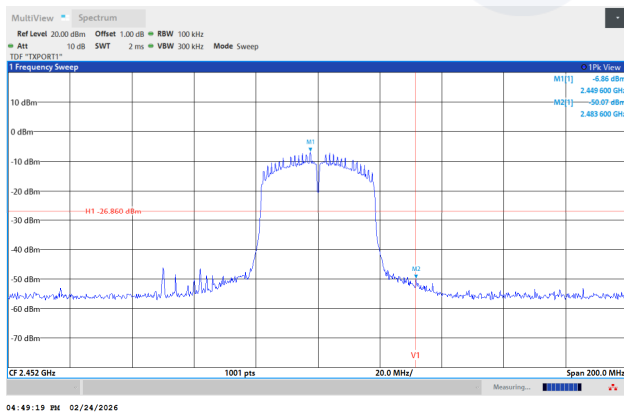
Conducted band-edge / 2 437 MHz

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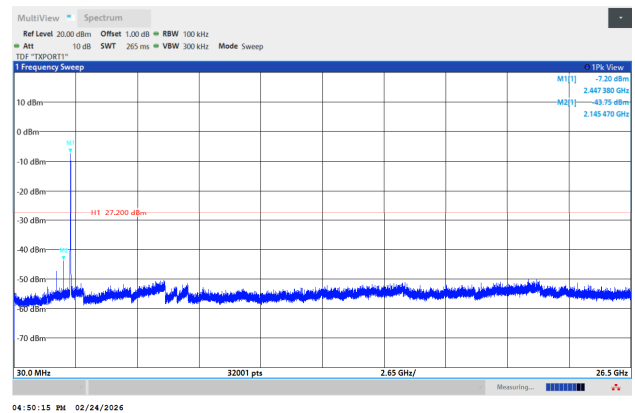
Conducted spurious / 2 437 MHz

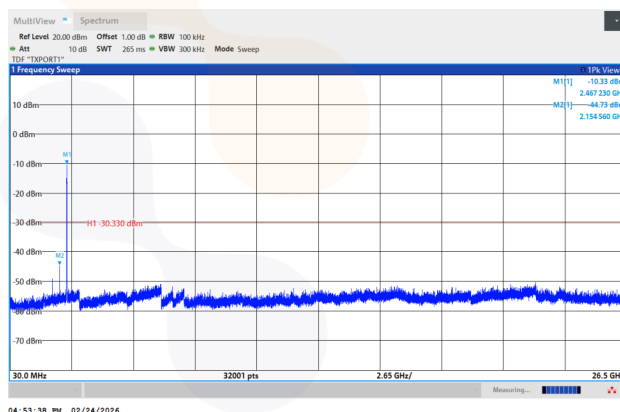


Conducted band-edge / 2 452 MHz



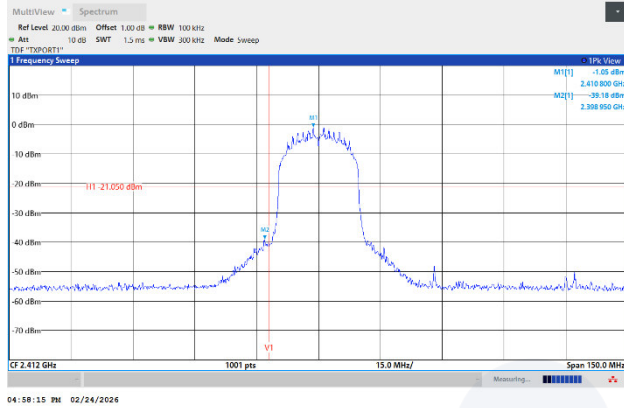
Conducted spurious / 2 452 MHz



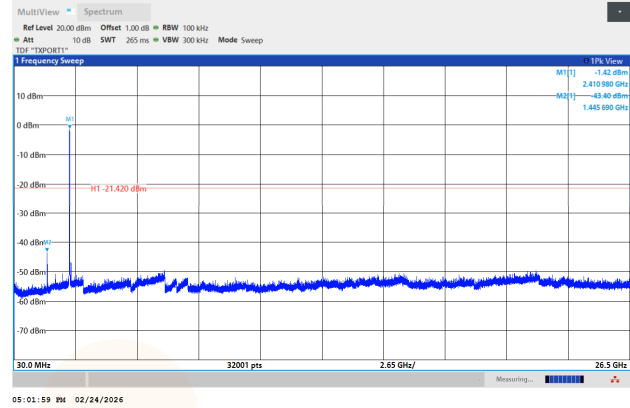


802.11ax HE20

Conducted band-edge / 2 412 MHz



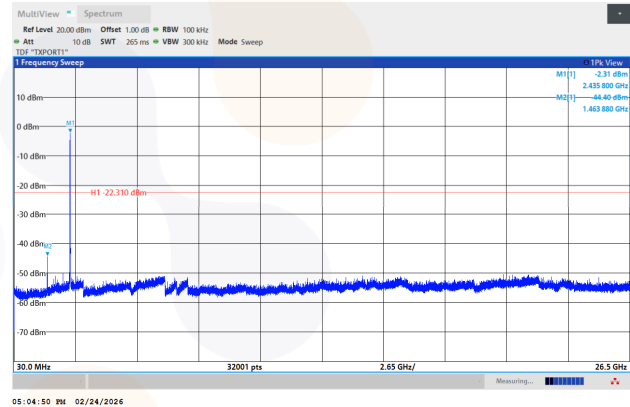
Conducted spurious / 2 412 MHz



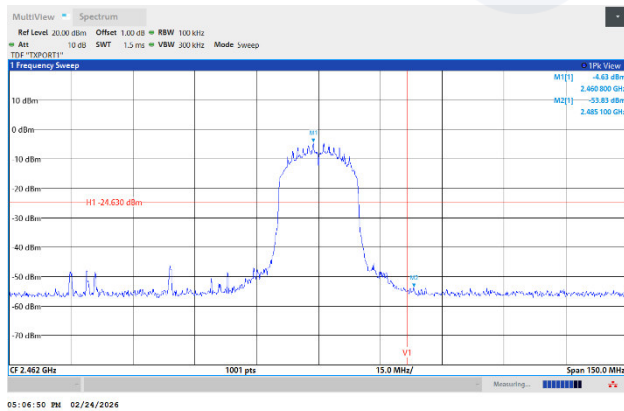
Conducted band-edge / 2 437 MHz

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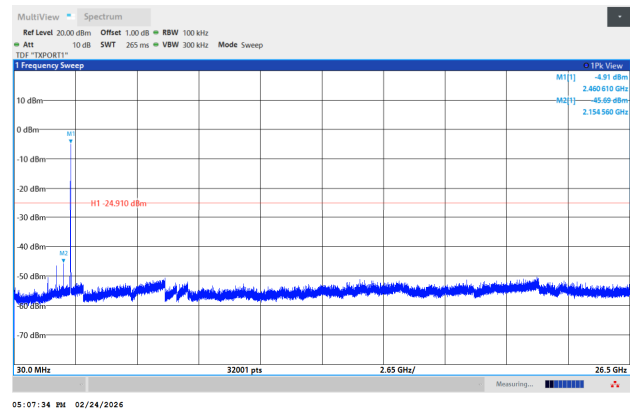
Conducted spurious / 2 437 MHz



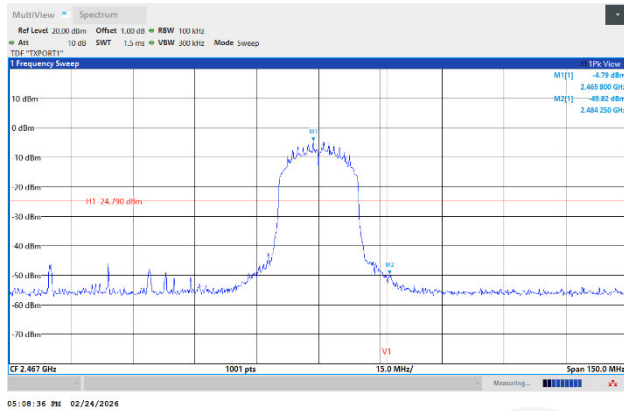
Conducted band-edge / 2 462 MHz



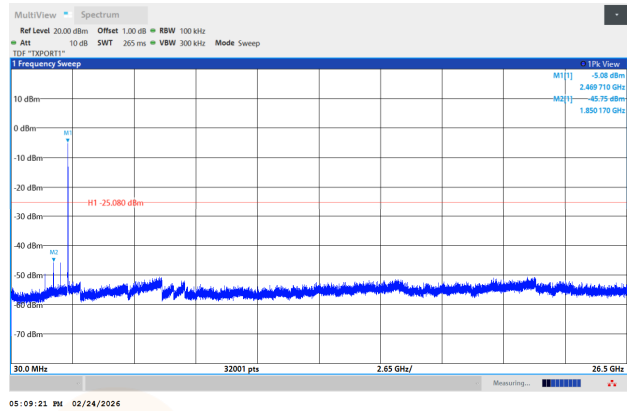
Conducted spurious / 2 462 MHz



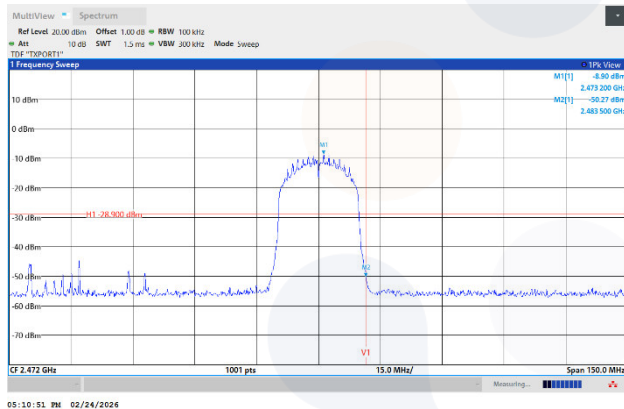
Conducted band-edge / 2 467 MHz



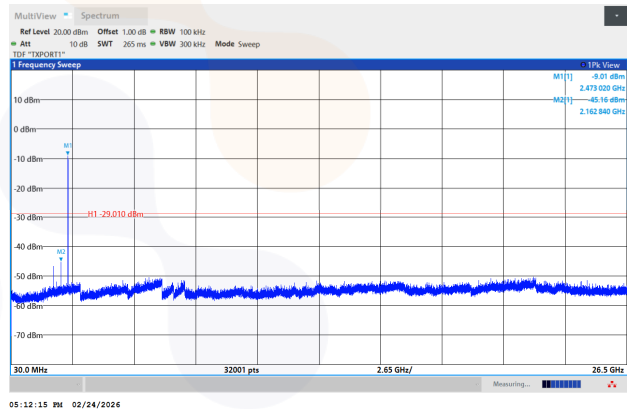
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz

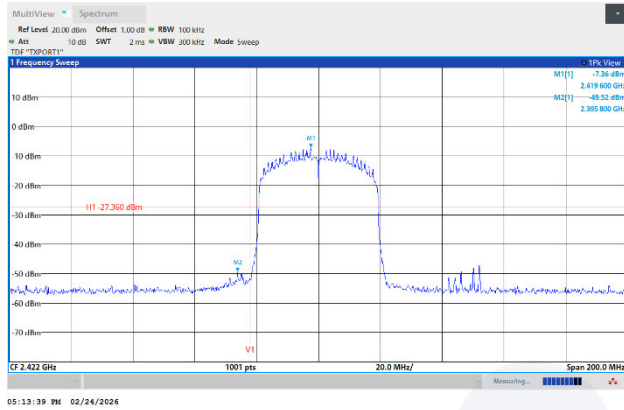


Conducted spurious / 2 472 MHz

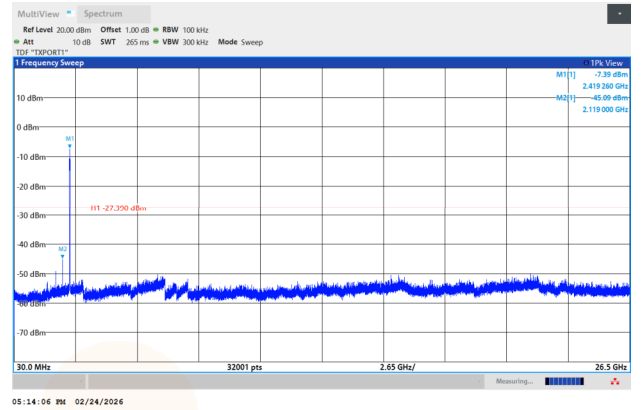


802.11ax HE40

Conducted band-edge / 2 422 MHz



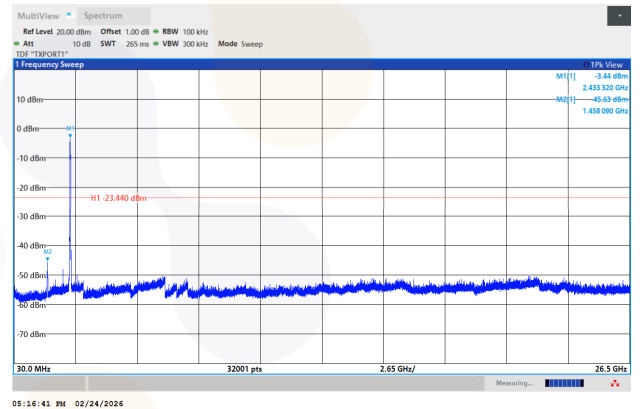
Conducted spurious / 2 422 MHz



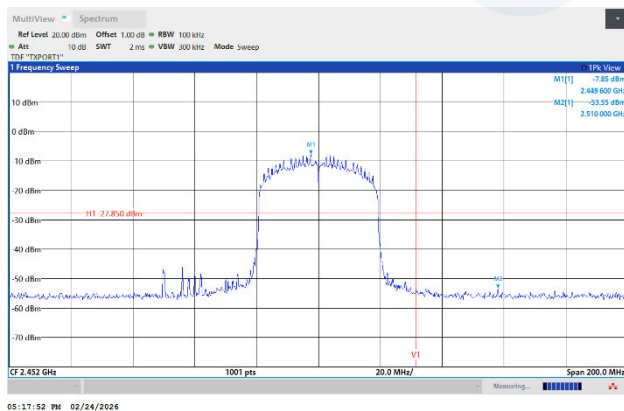
Conducted band-edge / 2 437 MHz

Blank

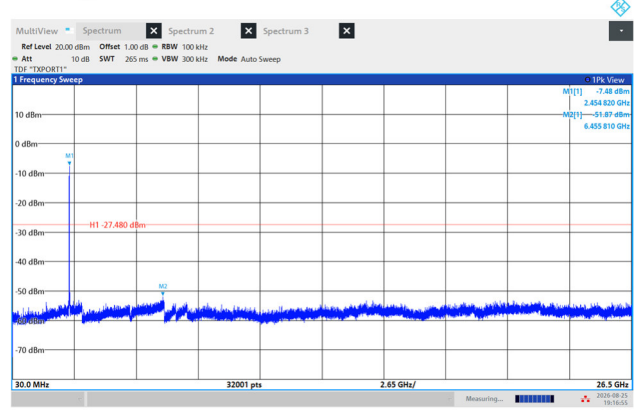
Conducted spurious / 2 437 MHz



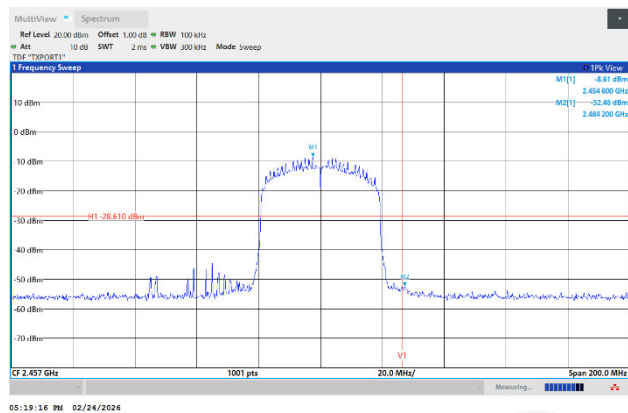
Conducted band-edge / 2 452 MHz



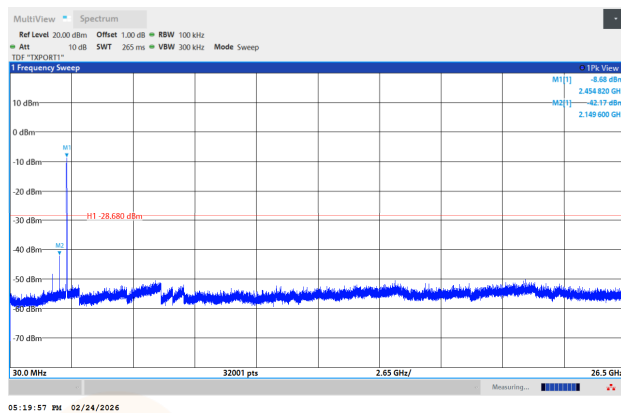
Conducted spurious / 2 452 MHz



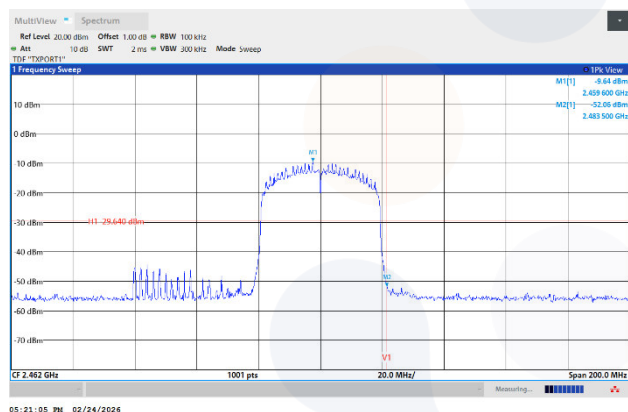
Conducted band-edge / 2 457 MHz



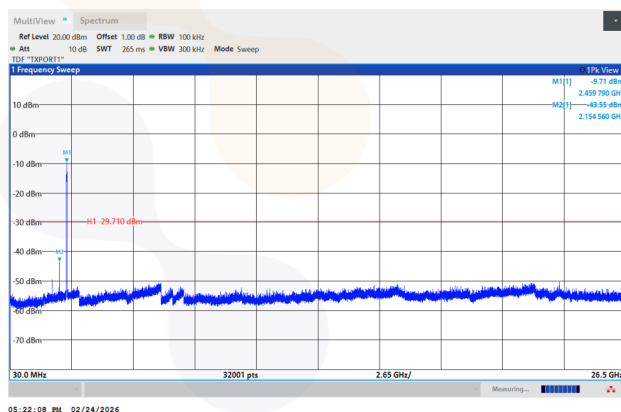
Conducted spurious / 2 457 MHz



Conducted band-edge / 2 462 MHz

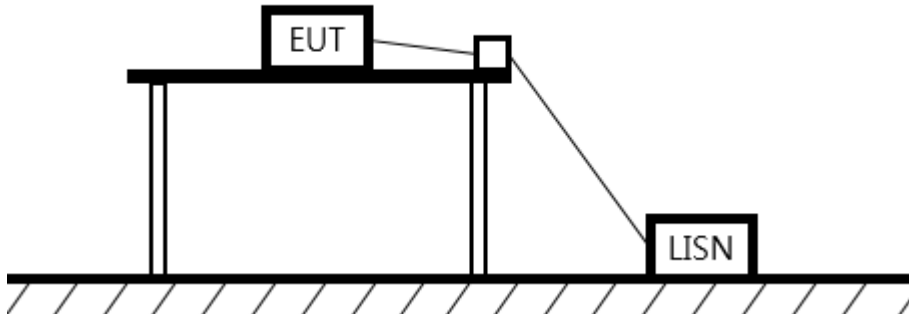


Conducted spurious / 2 462 MHz



7.6. AC Conducted emission

Test setup



Limit

According to 15.207(a), RSS-Gen(8.8),

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.

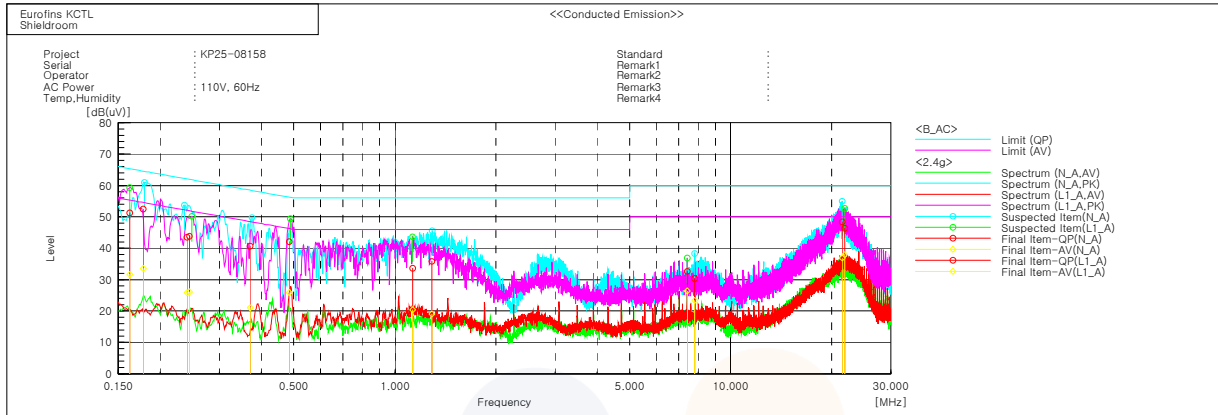
Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

Test results

Worst case: 802.11g_2 437 MHz



Final Result

--- N_A Phase ---									
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]
1	0.17813	42.2	23.3	10.3	52.5	33.6	64.6	54.6	12.1
2	0.24075	33.6	15.9	9.9	43.5	25.8	62.1	52.1	18.6
3	0.37097	30.5	11.0	10.1	40.6	21.1	58.5	48.5	17.9
4	1.28865	25.8	9.0	10.0	35.8	19.0	56.0	46.0	20.2
5	7.82078	20.0	12.9	10.4	30.4	23.3	60.0	50.0	29.6
6	21.51299	37.4	25.9	11.0	48.4	36.9	60.0	50.0	11.6

--- L1_A Phase ---									
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]
1	0.16233	41.0	21.5	10.2	51.2	31.7	65.3	55.3	14.1
2	0.24444	33.9	16.2	9.9	43.8	26.1	61.9	51.9	18.1
3	0.48461	31.9	15.7	10.2	42.1	25.9	56.3	46.3	14.2
4	1.12977	23.5	10.3	10.1	33.6	20.4	56.0	46.0	22.4
5	7.42782	22.3	16.1	10.3	32.6	26.4	60.0	50.0	27.4
6	21.87687	35.4	27.0	11.0	46.4	38.0	60.0	50.0	13.6

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR26-SRF0149 Page (106) of (106)	 
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8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSVA3030	101126	26.11.21
Signal Generator	R&S	SMB100A	176206	27.01.15*
Power Sensor	R&S	NRP-Z81	1137.9009.02-106223-bB	27.04.24
Attenuator	HUBER+SUHNER	6610_SK-50-1/199_NE	ATT02	27.07.06
Attenuator	HP	8491B	20205	27.01.15*
DC Power Supply	TOYOTECH	TL305TP	20100121	27.04.23
Spectrum Analyzer	R&S	FSV40	100988	27.04.06
Amplifier	SONOMA INSTRUMENT	310N	421910	27.07.06
Bi-log Antenna	Teseq GmbH	CBL 6112D	61521	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	28.06.29
DC Power Supply	POWERCOM	DCP-50100A	20220610-01	27.01.16*
Vector Signal Generator	R&S	SMBV100A	257566	27.07.06
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	53	27.07.06
Low Noise Amplifier	TESTEK	TK-PA18H	220123-L	27.07.06
Low Noise Amplifier	TESTEK	TK-PA1840H	220234-L	27.04.28
Horn Antenna	SCHWARZBECK	BBHA9120D	2764	27.06.30
Horn Antenna	SCHWARZBECK	BBHA9170	1266	27.04.29
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000-18000-40SS	SN59	27.06.29
High Pass Filter	Qotana	DBHF058004000A	23041800061	27.04.28
TWO-LINE V - NETWORK	R&S	ENV216	101584	27.03.24
EMI TEST RECEIVER	R&S	ESCI3	101428	27.08.11
Controller	INNCO SYSTEMS	CO3000	1442/5437032 2/P	N/A
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	AM002	N/A
Turn Device	INNCO SYSTEMS	DS1200-S-1t	0001	N/A

*This equipment was calibrated during the test period, and was used after calibration.

End of test report