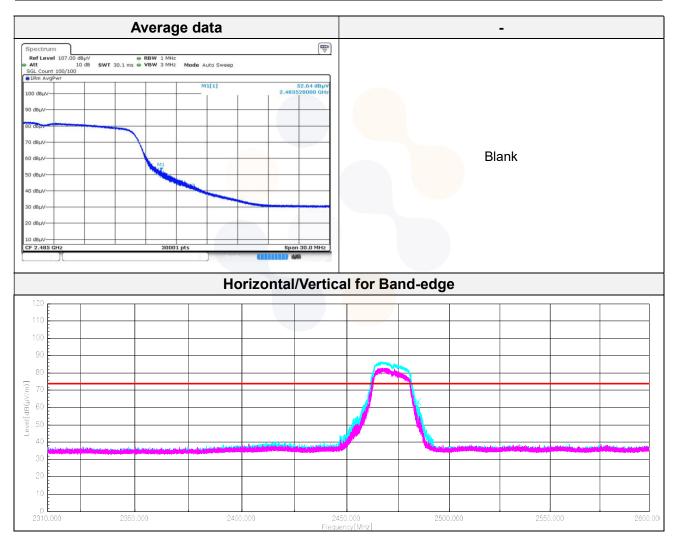
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Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/ m))	(dB)
Peak data								
2 483.531)	V	68.30	27.84	-32.59	-	63.55	74.00	10.45
4 911.33 ¹⁾	V	53.20	32.77	-42.40	-	43.57	74.00	30.43
7 286.431)	Н	52.00	36.97	-41.17	-	47.80	74.00	26.20
Average Data								
2 483.531)	V	52.64	27.84	-32.59	0.42	48.31	54.00	5.69



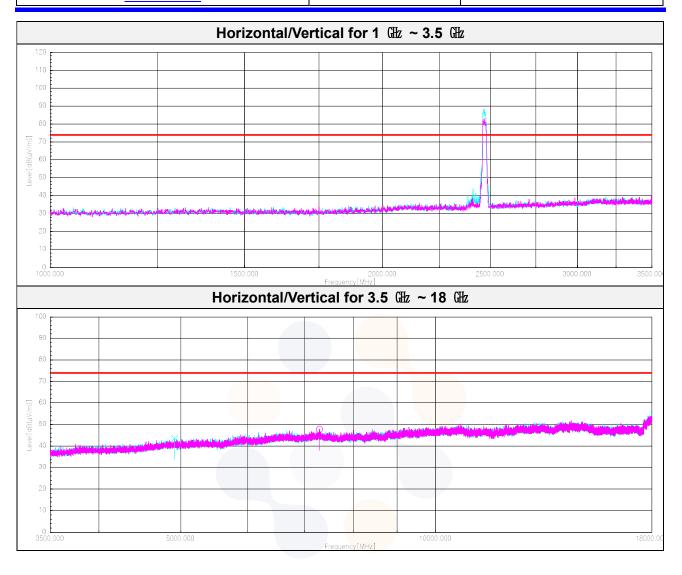
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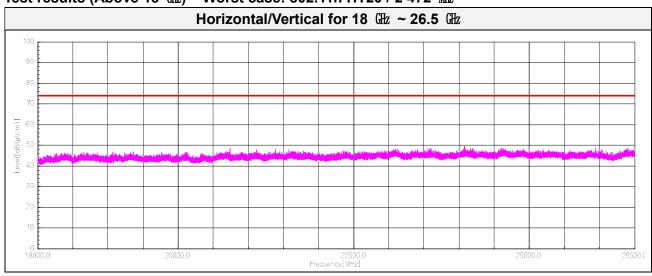
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Test results (Above 18 (址) - Worst case: 802.11n HT20 / 2 472 址



Note: The Worst case was based on the lowest margin condition considering Harmonic and Spurious Emission

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7.5. Conducted Spurious Emission

<u>Test setup</u>	_		_	
EUT		Attenuator		Spectrum analyzer

Limit

According to §15.247(d) and RSS-247(5.5), n any 100 klb bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 klb bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit: 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3 KDB 558074 D01 v05 - Section 8.5

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

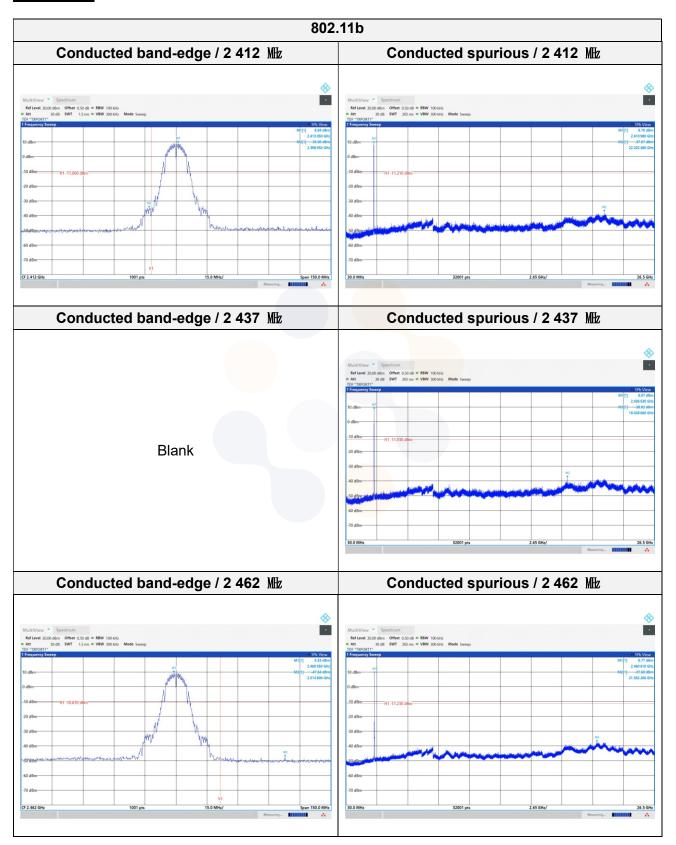
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Test results

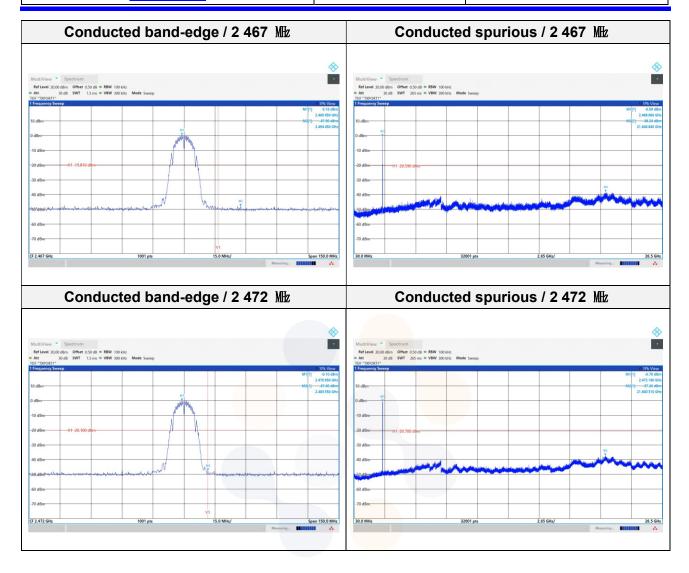


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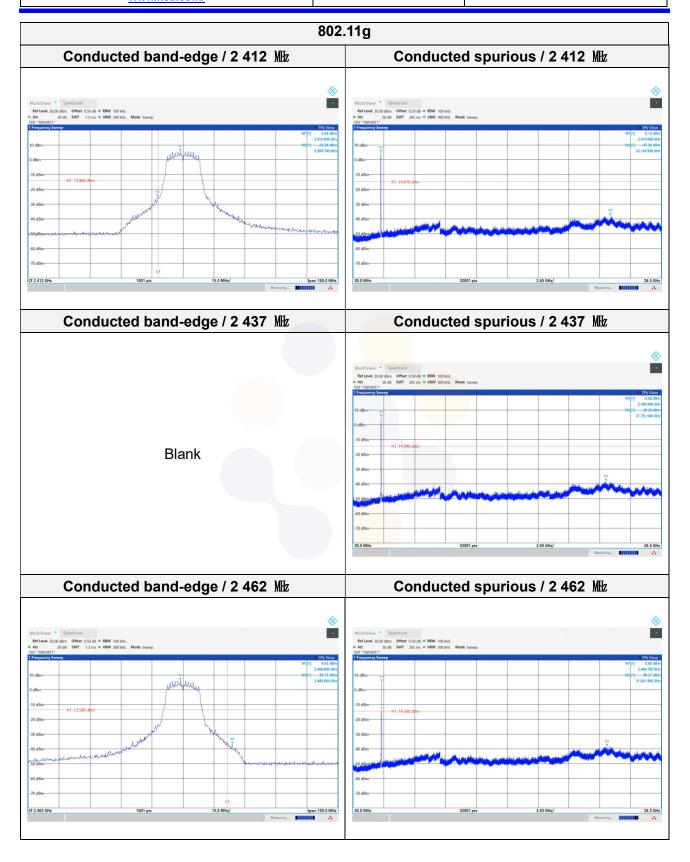


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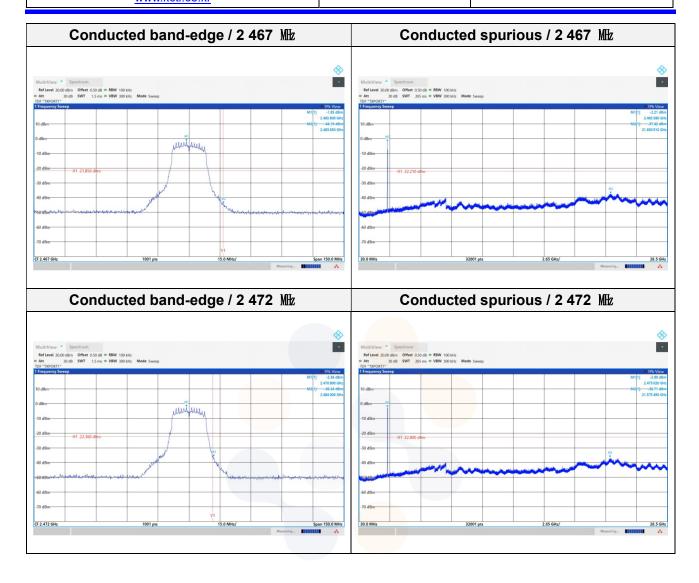


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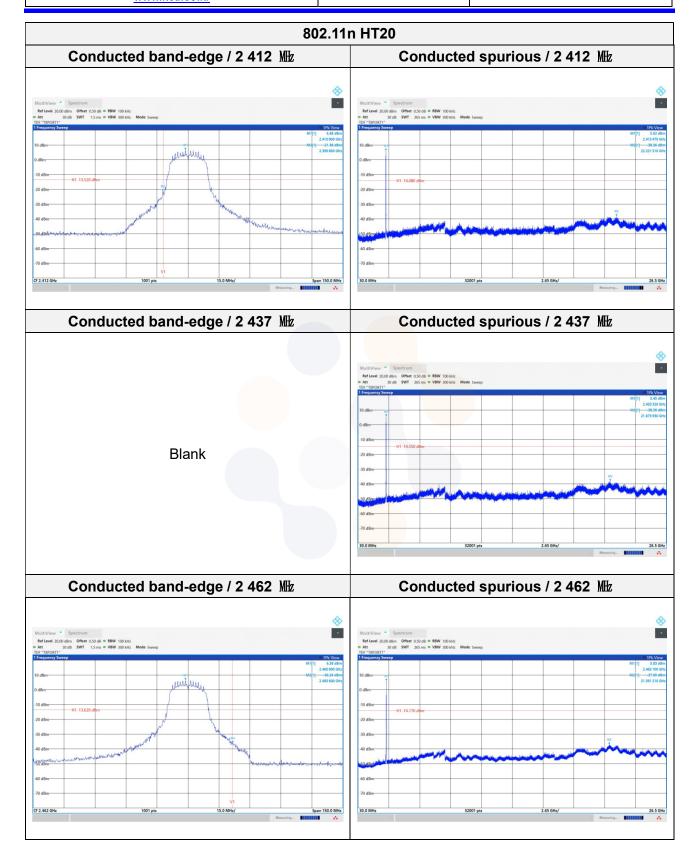


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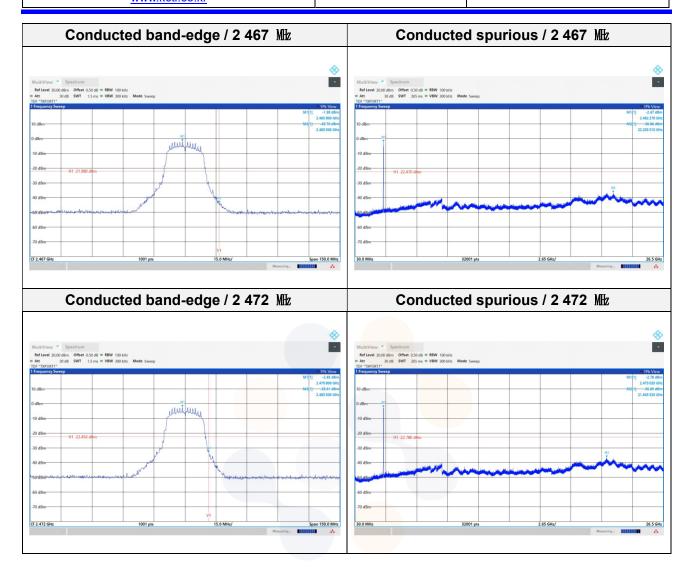


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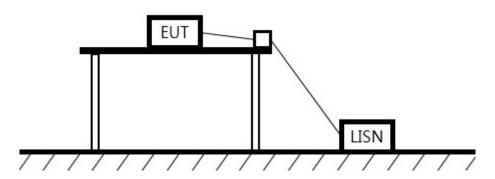
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7.6. AC Conducted emission Test setup



Limit

According to 15.207(a) and 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 kHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminl. The lower applies at the boundary between the frequencies ranges.

Fraguency of Emission (ML)	Conducted limit (dBµV/m)			
Frequency of Emission (咃)	Quasi-peak	Average		
0.15 – 0.50	66 <mark>- 56*</mark>	56 - 46*		
0.50 - 5.00	56	46		
5.00 – 30.0	60	50		

Measurement procedure

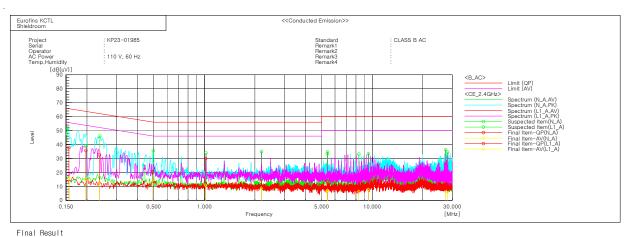
- 1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
- 2. Each current-carrying conductor of the EUT power cord was individually connected through a $50\Omega/50\mu H$ 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 Mb to 30 Mb.
- 5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 klb or to quasi-peak and average within a bandwidth of 9 klb. The EUT was in transmitting mode during the measurements.

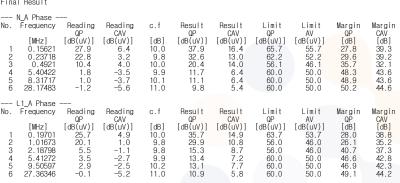
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8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV3044	101427	24.03.28
Attenuator	HUBER+SUHNER	6610_SK-50-1/199_NE	ATT10	24.04.10*
DC Power Supply	AGILENT	E3632A	MY40000265	24.04.27*
Power Sensor	R&S	NRP-Z81	1137.9009.02- 106223-bB	24.04.25*
Attenuator	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31209	24.04.25*
Spectrum Analyzer	R&S	FSV40	100988	23.07.11
PSA Spectrum Analyzer	Agilent	E4440A	MY46186407	24.03.22
Broadband Pre Amplifier	SCHWARZBECK	BBV9718D	53	24.03.17
Low Noise Amplifier	TESTEK	TK-PA18H	220123-L	23.12.02
Low Noise Amplifier	TESTEK	TK-PA1840H	220133-L	23.12.02
Amplifier	SONOMA INSTRUMENT	310N	421821	23.12.14
Horn Antenna	SCHWARZBECK	BB <mark>HA9120</mark> D	2764	23.12.06
Horn Antenna	SCHWARZBECK	BBHA9170	1267	23.12.05
Bi-log Antenna	Teseq GmbH	CBL 6112D	63756	24.11.17
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000- 18000-40SS	SN59	23.12.14
TWO-LINE V-Network	R&S	ENV216	101358	23.09.29
EMI Test Receiver	R&S	ESCI3	100001	23.08.18
Signal Generator	R&S	SMB100A	176206	24.01.19

^{*} Tests related to this equipment were progressed after the calibration was completed.

End of test report