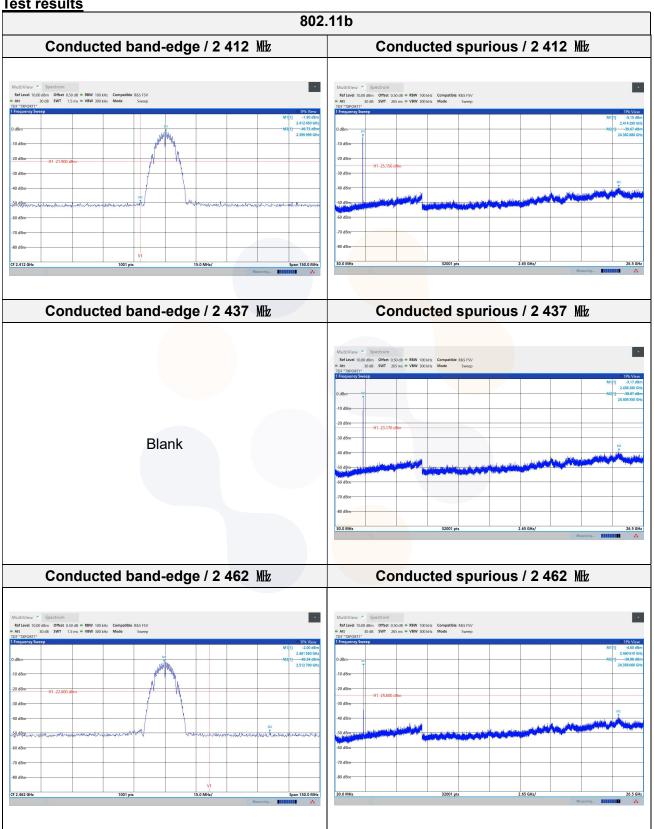
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (50) of (56)



Test results



65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (51) of (56)



802.11g Conducted band-edge / 2 412 Mb Conducted spurious / 2 412 Mb milling 50 dBm CF 2.412 GHz Conducted band-edge / 2 437 Mb Conducted spurious / 2 437 Mb
 Ref Level
 10.00 dBm
 Offset
 0.50 dB ● RBW
 100 kHz
 Compatible
 R8S FSV

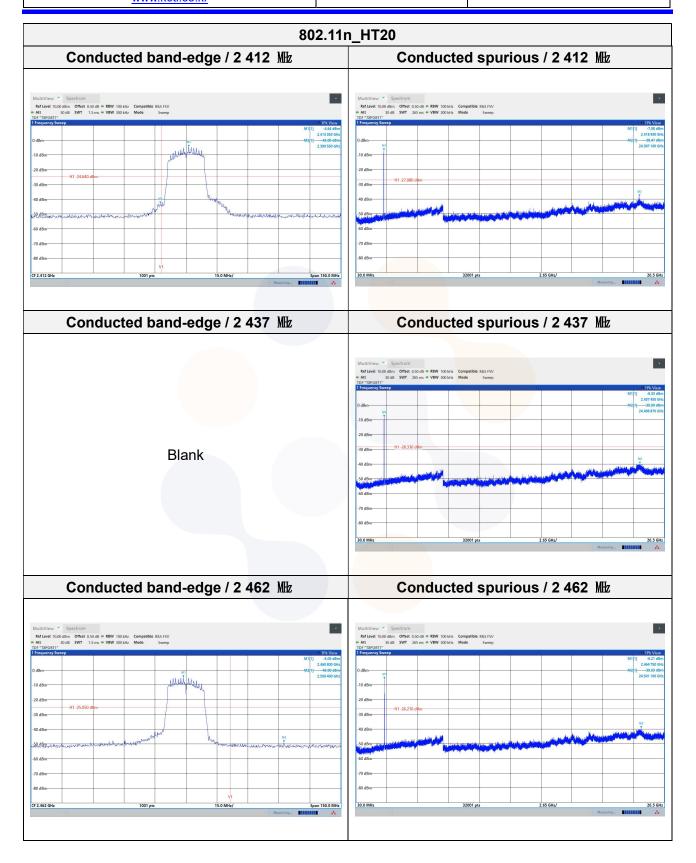
 Att
 30 dB
 SWT
 265 ms
 • VBW
 300 kHz
 Mode
 Sweep
Blank Conducted band-edge / 2 462 Mb Conducted spurious / 2 462 Mb mulmy

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (52) of (56)



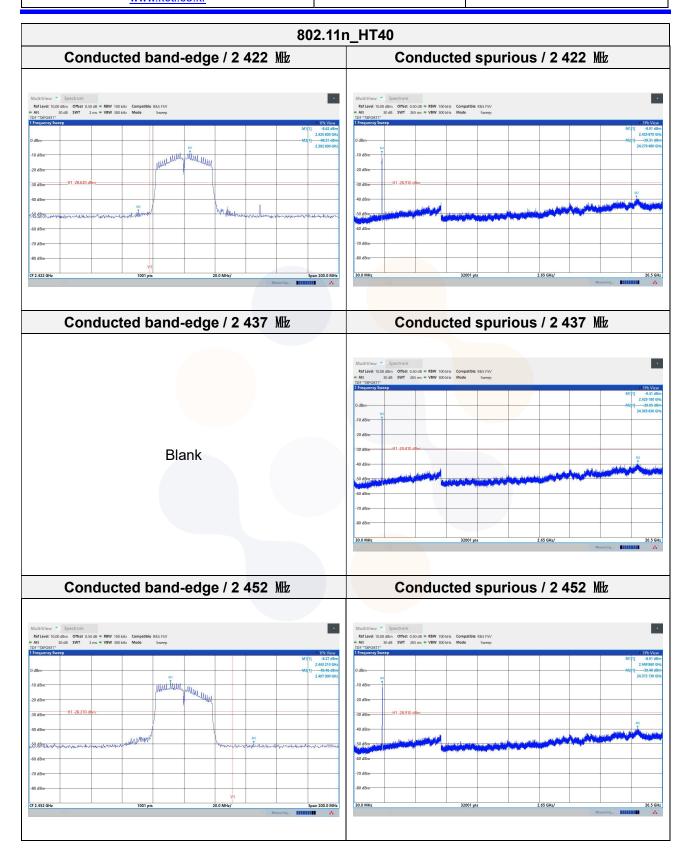


65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (53) of (56)





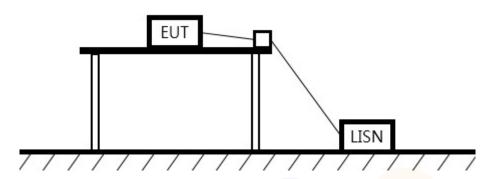
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (54) of (56)



7.6. AC Conducted emission Test setup



Limit

According to 15.207(a), 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 km to 30 km, 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 terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (쌘)	Conducted limit (dBµV/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 $50\Omega/50\mu H$ 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.

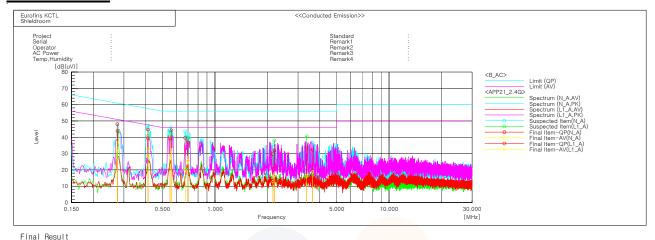
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

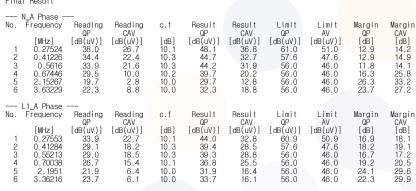
www.kctl.co.kr

Report No.: KR24-SRF0092 Page (55) of (56)



Test results - Worst case: 802.11n HT20 mode / 2 462 ₩b





65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

www.kctl.co.kr

Report No.: KR24-SRF0092 Page (56) of (56)



8. Measurement equipment

o. Measurenne	ent equipment			
Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV30	100732	24.07.03
DC Power Supply	AGILENT	E3632A	MY40008800	24.07.03
Attenuator	API Inmet	40AH2W-10	18	25.04.30
Power Sensor	R&S	NRP-Z81	1137.9009.02- 106223-bB	25.04.24
Power Divider	Aeroflex/ Weinschel,Inc	1580-1	PE430	24.07.04
Attenuator	HUBER+SUHNE R	6610_SK-50- 1/199_NE	ATT01	24.10.16
Signal Generator	R&S	SMB100A	176206	25.01.18
Spectrum Analyzer	R&S	FSV40	100988	24.07.03
PSA Spectrum Analyzer	Agilent	E44 <mark>40A</mark>	MY44303500	24.07.04
Amplifier	SONOMA INSTRUMENT	31 <mark>0N</mark>	421910	24.10.12
Bilog Antenna	Teseq GmbH	CBL 6112D	61521	24.11.17
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10
Signal Generator	R&S	SMB100A	176206	25.01.18
Controller	INNCO SYSTEMS	CO3000	1441/54370322/ P	-
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	-	-
Turn Device	INNCO SYSTEMS	DS1200-S-1t	-	-
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	57	25.01.19
Low Noise Amplifier	TESTEK	TK-PA18H	220124-L	24.10.12
Low Noise Amplifier	TESTEK	TK-PA1840H	220133-L	24.10.17
Horn Antenna	SCHWARZBECK	BBHA9120D	2763	24.10.18
Horn Antenna	SCHWARZBECK	BBHA9170	1267	24.10.16
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000- 18000-40SS	SN58	24.10.16
High Pass Filter	QOTANA TECHNOLOGIES	DBHF0508004000A	23041800061	24.07.10
TWO-LINE V - NETWORK	R&S	ENV216	101358	24.09.27
EMI TEST RECEIVER	R&S	ESCI3	101408	24.08.18

End of test report