# Attachment 1 : EMC Regulatory Requirements applicable in Korea

Standard	Title	Deviation	Remark
IEC61000-6-1 (ed.1)	Electromagnetic compatibility(EMC)- Part 6 : Generic standards- Section1: Immunity for residential, commercial and light-industrial environments	K : IEC61000-6-1: 1997 KN : No	KS Standards same as IDT IEC61000 - 6 - 1 :1997
IEC61000-6-2 (ed.1)	Electromagnetic compatibility(EMC)- Part 6 : Generic standards- Section 1: Emission standard for residential, commercial and light-industrial environments	K : IEC61000-6-2:1999 KN:No	KS Standards same as IDT IEC61000 - 6 - 2 : 1999
IEC61000-6-3 (ed.1)	Electromagnetic compatibility(EMC)- Part 6 : Generic standards- Section 2: Immunity for Industrial environments	K : IEC61000-6-3:1996 Ed.1 KN : No	KS Standards same as IEC61000-6-3:1996 Ed.1
IEC61000-6-4 (ed.1)	Electromagnetic compatibility(EMC)- Part 6 : Generic standards- Section 4: Emission standard for industrial environments	K : IEC61000-6-4 : 1997 KN : No	KS Standards same as IDT IEC61000 - 6 - 4 : 1997
IEC60601-1-2 (ed.2)	Medical electrical equipment – Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests	K : No KN : No	KS Standards same as IDT IEC60601 – 1 – 2 : 1993
IEC61000-3-2 (Con.ed.2.1)	Electromagnetic Compatibility(EMC)- Part 3-2 : Limits-Limits for harmonic current emissions (equipment input current≤16A per phase)	K : K61000-3-2 KN : No	KS Standards changed to 60Hz condition
IEC61000-3-3 (Con. ed.1.1)	Electromagnetic Compatibility(EMC)- Part 3 : Limits-Section 3: Limitation of voltage fluctuations and flicker in low- voltage supply systems for equipment with rated current≤16A	K : K61000-3-3 KN : No	KS Standards changed to 60Hz condition
IEC61000-3-11 (ed.1.1)	Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current $\leq$ 75 A and subject to conditional connection	K : K61000-3-11 KN : No	KS Standards changed to 60Hz condition
IEC61000-4-2 (Con. ed.1.2)	Electromagnetic Compatibility(EMC)- Part 4-2 :Testing and measurement techniques-Electrostatic discharge immunity test	K :IEC61000-4-2:1995.01 KN : IEC61000-4-2:2001	KS Standards same as IDT IEC61000-4-2 : 1995
IEC61000-4-3 (Con. ed.2.1)	Electromagnetic Compatibility(EMC)- Part 4-3 :Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test	K: IEC61000-4-3:1996 Amd.1:1998 KN : IEC 61000-4-3:2002	KS Standards same as IDT IEC61000-4-3 : 2002

규 격 명	Title	Deviation	Remark
IEC61000-4-4 (ed.2)	Electromagnetic Compatibility(EMC)- Part 4 :Testing and measurement techniques-Section 4: Electrical fast transient/burst immunity test - Basic EMC publication	K : IEC 61000-4-4:1995 KN : IEC61000-4-4:2004	KS Standards same as IDT IEC61000-4-4 : 2002
IEC61000-4-5 (Con. ed.1.1)	Electromagnetic Compatibility(EMC)-Part 4 : Testing and measurement techniques-Section 5: Surge immunity test	K : IEC 61000-4-5:1995 KN : IEC61000-4-5:2001	KS Standards same as IDT IEC61000-4-5 : 2001 Ed1.1
IEC61000-4-6 (Con. ed.1.1)	Electromagnetic Compatibility(EMC)- Part 4 : Testing and measurement techniques- Section 6: Immunity to conducted disturbances, induced by radio- frequency fields	K : IEC 61000-4-6:1996 KN : IEC61000-4-6:2004	KS Standards same as IDT IEC61000-4-6 : 2001
IEC61000-4-8 (Con. ed.1.1)	Electromagnetic compatibility(EMC)- Part 4 :Testing and measurement techniques, Section 8: Power frequency magnetic field immunity test - Basic EMC publication	K : IEC 61000-4-8:1993 KN : IEC61000-4-8:2001	KS Standards same as IDT IEC61000-4-8 : 2001
IEC61000-4-9 (Con. ed.1)	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test	K : IEC 61000-4-9:1993 KN : No	KS Standards same as IDT IEC61000-4-9: 2001
IEC61000-4-11 (ed.2)	Electromagnetic Compatibility(EMC)- Part 4 :Testing and measuring techniques- Section 11: voltage dips, short interruptions and voltages immunity test	K : IEC 61000-4-11:1994 KN : IEC61000-4-11:2004	KS Standards same as IDT IEC61000-4-11 : 2001
IEC61000-4-12 (Con.ed.1.1)	Electromagnetic Compatibility(EMC)- Part 4 :Testing and measurement techniques-Section 12: Oscillatory waves Immunity test : Basic EMC publication	K : No KN : No	KS Standards same as IDT IEC61000 – 4 – 12 ÷ 2001
IEC61547(ed.1) ;am1	Equipment for general lighting purpose EMC immunity requirements	K : IEC61547:1995 KN : No	KS Standards same as IDT IEC61547 : 1995
CISPR 11 (ed4.1), am.1	Industrial, scientific & medical(ISM)-Radio-frequency equipment- Electromagnetic disturbance characteristics-Limits and methods of measurement	K : CISPR 11:1997 Amd1:1999 KN : CISPR 11:1997	KS Standards same as CISPR 11, Ed4.1 :2004
CISPR 13 (ed4.1), am.1	Limits and methods of measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment	K : CISPR 13 Ed4.1 :2003 KN : CISPR 13:1998	KS Standards same as CISPR 13 Ed4.1 :2003
CISPR 14-1 (ed4.2)	Limits and methods of measurement of radio disturbance characteristics of electric motor-operated and thermal appliances for household and similar purposes, electric tools and similar electric apparatus	K : CISPR 14-1, Ed4.2:2002 KN : CISPR 14-1:1999	KS Standards same as CISPR 14-1, Ed4.2:2002
CISPR 14-2, am.1	Electromagnetic compatibility- Requirements for household appliances, electric tools and Similar apparatus- Part 2 : Immunity-Product family standard	K : CISPR14-1, Amd1 :2001 KN : No	KS Standards same as IDT CISPR14-2, Amd1 :2001
CISPR 15 (ed6.2), am.2	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	K : CISPR 15, Ed.6.2: 2002 KN : CISPR 15:1999	KS Standards same as IDT CISPR 15, Ed.6.2: 2002
CISPR 20 (ed5.5), am.2	Sound and television broadcast receivers and associated equipment – immunity characteristics-limits and methods of measurement	K :CISPR 20, Ed5.0+Amd1:2002 KN : CISPR 20:1998	KS Standards same as CISPR 20, Ed5.0+Amd1:2002

규 격 명	Title	Deviation	Remark
CISPR 22, am.1	Information technology equipment- Radio disturbance characteristics- Limits and methods of Measurement	K : CISPR 22, Ed3.0:1997 KN : CISPR22:2004	KS Standards same as IDT CISPR 22, Ed3.0:1997
CISPR 24, am.2	Information technology equipment-Immunity characteristics- Limits and methods of measurement	K : CISPR 24, Ed.1.01:1997 KN : CISPR 24:2002	KS Standards same as IDT CISPR 24, Ed.1.01:1997
IEC 60118-13 (ed.1)	Hearing aids - Part 13: Electromagnetic compatibility (EMC)	K : No KN : No	Old version
IEC 60533 (ed.2)	Electrical and electronic installations in ships – Electromagnetic compatibility	K : No KN : No	KS Standards same as IDT IEC60533 : 1999
IEC61000-2-2 (ed.2)	Electromagnetic compatibility (EMC) – Part 2-2: Environment - Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems	K : No KN : No	KS Standards same as IDT IEC61000 - 2 - 2 :1990
IEC61000-2-4 (ed.2)	Electromagnetic compatibility (EMC) – Part 2-4: Environment - Compatibility levels in industrial plants for low- frequency conducted disturbances	K : No KN : No	KS Standards same as IDT IEC61000-2-4 : 1994
IEC61000-2-9 (ed.1)	Electromagnetic compatibility (EMC) – Part 2: Environment - Section 9: Description of HEMP environment – Radiated disturbance. Basic EMC publication	K : No KN : No	KS Standards same as IDT IEC61000 - 2 - 9 : 1996
IEC 61000-2-10 (ed.1)	Electromagnetic compatibility (EMC) – Part 2-10: Environment - Description of HEMP environment - Conducted disturbance	K : No KN : No	KS Standards same as IDT IEC61000-2-10 : 1998
IEC 61000-2-11 (ed.1)	Electromagnetic compatibility (EMC) – Part 2-11: Environment - Classification of HEMP environments	K : No KN : No	KS Standards same as IDT IEC61000-2-11 : 1999
IEC61000-3-5 (ed.1)	Electromagnetic compatibility (EMC) – Part 3: Limits - Section 5: Limitation of voltage fluctuations and flicker in low- voltage power supply systems for equipment with rated current greater than 16 A	K : No KN : No	KS Standards same as IDT IEC61000 - 3 - 5:1994
IEC61000-3-6 (ed.1)	Electromagnetic compatibility (EMC) – Part 3: Limits - Section 6: Assessment of emission limits for distorting loads in MV and HV power systems - Basic EMC publication	K : No KN : No	KS Standards same as IEC61000-3-6: 년도 없음 (내용 일부 변경)
IEC61000-3-7 (ed.1)	Electromagnetic compatibility (EMC) – Part 3: Limits - Section 7: Assessment of emission limits for fluctuating loads in MV and HV power systems – Basic EMC publication	K : No KN : No	KS Standards same as IDT IEC61000-3-7 : 1996
IEC61000-3-8 (ed.1)	Electromagnetic compatibility (EMC) – Part 3: Limits - Section 8: Signaling on low-voltage electrical installations – Emission levels, frequency bands and electromagnetic disturbance levels	K : No KN : No	KS Standards same as IDT IEC61000-3-8 : 1997

규 격 명	Title	Deviation	Remark
IEC61000-4-1 (ed.2)	Electromagnetic compatibility (EMC) – Part 4-1: Testing and measurement techniques – Overview of IEC 61000-4 series	K : No KN : No	NO
IEC61000-4-7 (ed.2)	Electromagnetic compatibility (EMC) – Part 4-7: Testing and measurement techniques – General guide on harmonics and inter-harmonics measurements and instrumentation, for power supply systems and equipment connected thereto	K : No KN : No	KS Standards same as IDT IEC61000-4-7 : 2002
IEC61000-4-13 (ed.1)	Electromagnetic compatibility (EMC) – Part 4-13: Testing and measurement techniques – Harmonics and inter- harmonics including mains signaling at a.c. power port, low frequency immunity tests	K : No KN : No	KS Standards same as IDT IEC61000-4-13 : 2002
IEC61000-4-14 (Con. ed.1.1)	Electromagnetic compatibility (EMC) – Part 4-14: Testing and measurement techniques – Voltage fluctuation immunity test	K : No KN : No	KS Standards same as IDT IEC61000-4-14 : 1999
IEC61000-4-15 (Con. ed.1.1)	Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques - Section 15: Flicker meter – Functional and design specifications	K : No KN : No	KS Standards same as IDT ISO61000-4-15 : 1997
IEC61000-4-16 (Con. ed.1.1)	Electromagnetic compatibility (EMC) – Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	K : No KN : No	KS Standards same as IDT IEC61000-4-16 : 1998
IEC61000-4-17 (Con. ed.1.1)	Electromagnetic compatibility (EMC) – Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	K : No KN : No	KS Standards same as IDT IEC61000-4-17 : 1999
IEC61000-5-5 (ed.1)	Electromagnetic compatibility (EMC) – Part 5: Installation and mitigation guidelines - Section 5: Specification of protective devices for HEMP conducted disturbance. Basic EMC Publication	K : No KN : No	KS Standards same as IDT IEC61000 - 5 - 5 : 1996
IEC61000-5-7 (ed.1)	Electromagnetic compatibility (EMC) – Part 5-7: Installation and mitigation guidelines - Degrees of protection provided by enclosures against electromagnetic disturbances (EM code)	K : No KN : No	KS Standards same as IDT IEC61000-5-7 : 2001
IEC61800-3 (ed.2)	Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods	K : No KN : No	KS Standards same as IDT IEC61800 – 3 : 1996
(ed.2) IEC62040-2 (ed.1)	Part 3: EMC requirements and specific test methods         Uninterruptible power systems (UPS) –         Part 2: Electromagnetic compatibility (EMC) requirements	KN : No KN : No	KS Standards same as           IDT IEC62040 - 2 : 1999

## ++ Deviation between CISPR 20 and K 00020 for EK mark ++

1. General Condition during testing

a) Main power supply : AC 220 V, 60 Hz

b) Color TV mode : NTSC

#### 2. Deviation Table

#### a) FM part of sound receivers

<b>Related</b> Clause or				Deviation	Deviation					
sub-clause	CISPR 20				K	Note				
4.3.1 Table 3		ts of input in e the FM range		from unwa	anted	Table 3 Limits of signals outside the		ty from ι	inwanted	
	Wanted signal frequency fn Mlz	Unwanted signal frequency ff Mtz	dBo 1 kHz AN	el nf $(\mu N)$ 1 at 80 % pth Stereo		Wanted signal frequency fn (旭)	Unwanted signal frequency ff (朏)	Level nf dB( $\mu$ V) 1kHz AM at 80 % depth Mono Stereo		
	87.6	66.20 76.90 87.10 87.20 87.25 87.30 87.35 87.40 87.45 87.40	80 80 80 80 80 72.4 64.8 57.2 49.6 42.0	80 80 80 80 69.2 58.4 47.6 36.8 26.0		<u>88.1</u>	<u>66.70 1)</u> <u>77.40</u> <u>87.60</u> <u>87.70</u> <u>87.75</u> <u>87.80</u> <u>87.85</u> <u>87.85</u> <u>87.90</u> <u>87.95</u> <u>88.00</u>	80 80 80 80 80 72.4 64.8 57.2 49.6 42.0	80 80 80 80 80 69.2 58.4 47.6 36.8 26.0	
	107.9	$\begin{array}{r} 87.30\\ 129.30\\ 118.60\\ 108.40\\ 108.30\\ 108.25\\ 108.20\\ 108.15\\ 108.10\\ 108.05\\ 108.00\\ \end{array}$	$\begin{array}{c} 80\\ 80\\ 80\\ 80\\ 80\\ 72.4\\ 64.8\\ 57.2\\ 49.6\\ 42.0\\ \end{array}$	80 80 80 80 80 69.2 58.4 47.6 36.8 26.0		107.9	129.30 118.60 108.40 108.30 108.25 108.20 108.15 108.10 108.05 108.00	$\begin{array}{c} 42.0 \\ 80 \\ 80 \\ 80 \\ 80 \\ 80 \\ 72.4 \\ 64.8 \\ 57.2 \\ 49.6 \\ 42.0 \end{array}$	80 80 80 80 80 69.2 58.4 47.6 36.8 26.0	

## b) Unwanted signal types

<b>Related</b> Clause or	Deviation								
sub-clause	CISPR 20	K 00020(Korea)	Note						
4.3.2	Unwanted signal types A: an unmodulated signal at the picture carrier frequency of the relevant channel M;	Unwanted signal types A: an unmodulated signal at the picture carrier frequency of the relevant channel M;	There is a change of FM deviation in the unwanted signal types						
	B: two unmodulated signals each at the level as given in the tables, one at the relevant picture carrier frequency $+0.5$ MHz and the other at the picture carrier frequency $-0.5$ MHz;	B: two unmodulated signals each at the level as given in the tables, one at the relevant picture carrier frequency $+0.5$ MHz and the other at the picture carrier frequency $-0.5$ MHz;	CISPR 20 1 kHz FM, <u>30 kHz</u>	K 00020 1 kHz FM, <u>15 kHz</u>					
	<ul> <li>C: a modulated signal at the relevant sound carrier frequency, 1 kHz FM at 30 kHz deviation;</li> <li>C shall be applied to receivers for countries in which mono-sound television signals of the systems B and G can be received.</li> <li>For television receivers for countries, in which also two-sound-channel-television-signals of the systems B and G with two frequency modulated sound carriers can be received (even for one-sound-channel-television-receivers)</li> <li>C1: a frequency modulated signal at the relevant frequency of the first sound carrier, 1 kHz FM at 30 kHz deviation, and</li> <li>C2: a frequency modulated signal at the relevant frequency of the second sound carrier, 1 kHz FM at 30 kHz deviation are applied simultaneously.</li> <li>D: an amplitude modulated signal at the relevant picture carrier frequency, 1 kHz AM at 80 % depth.</li> </ul>	<ul> <li>frequency, 1 kHz FM at 15 kHz deviation;</li> <li>C1: a frequency modulated signal at the relevant frequency of the first sound carrier, 1 kHz, FM at 15 kHz deviation,</li> <li>C2: a frequency modulated signal at the relevant frequency of the second sound carrier, 1 kHz, FM at 15 kHz deviation.</li> <li>D: an amplitude modulated signal at the relevant picture carrier frequency, 1 kHz AM at 80 % depth.</li> <li>E: an amplitude modulated signal, 1 kHz AM at</li> </ul>							

<b>Related Clause or</b>								Dev	iation							
sub-clause		CISPR 20					K 00020(Korea)				-	Note				
<b>4.3.2</b> Table 5d	receivers for system M-NTSC with a 58.75 MHz IF					Table 5. Limits of input immunity of television receivers for system NTSC with a 45.75 MHz IF video carrier (used in Korea)         Wanted       Unwanted signal in channel M					deleted.	5a, 5b, 5c was Table 5d was to table 5 and				
	channel N	M=N-2	Le	evel dB(/ N+1		N+19	Туре	Wanted channel N	M=N-2	Le	vel dB(/ N+1		N+15	Туре	only table Korea.	e 5 is useful in
	N <sub>II</sub> , N <sub>III</sub>	- - 70	- 49 -	60 - -	- - 70	70 - -	A C1 D	N   , N	-	- 49 42	60 -	-	-	A C1 C2		
	N <sub>IV</sub>	- - 70	- 53 -	64 - -	- - 74	74 - -	A C1 D			- - 53	- 64	70	- 74	D A C1		
	Note 1) Wan bar pattern w and band III c Note 2) Soun dBuV in band Note 3) C1: a I kHz FM at 1 - Channel N - Channel N - Channel N	ith modul or in band d carrier l l IV. Modulate (5 kHz de V <sub>II</sub> in ba: V <sub>III</sub> in ba	ated sou IV I kH level: 64 ed signa viation. nd I ne und III	Ind carrie z FM at dBuV i d at the f carest to nearest	er, level 15 kHz o n <u>band</u> first sour o 98 M t to 202	70 dBu' deviation <u>II</u> and ba nd carrie IHz 3 MHz	V in <u>band II</u> nd III or 68 r frequency,	lew dE Note 2) So or Note 3) C fre <u>C2</u>	- 70 Tanted signature of the second secon	46 - gnal : a pattern BuV in J nd IV I k er level: 7 in band dulated I kHz FN <u>odulated</u> <u>quency</u> , <u>below</u> 7	with m band I a Hz FM a 57 dBu IV. signal a 4 at 15 k signal 1 kHz F dB than dB than	and band at 15 kHz V in bar t the fin Hz devia at the M at 15 1 C1) est to 68 rest to 2	- nal with 1 sound 1 III or 2 deviation at and st sounce ation. second kHz dev	C2 D vertical carrier, level 74 on. band III d carrier sound riation.		

#### c) Limits of input input immunity of television receivers for M-NTSC

<b>Related Clause or</b>	Deviation								
sub-clause	CISPR 20	K 00020(Korea)	Note						
<b>I.3.4</b> Table 8a	Table 8a - Limits of screening effectiveness of th coaxial antenna terminalsEquipmentWanted signal Frequency or channel MHz or Nunwanted signal frequency MHzFM sound $f_m^a$ fm $f_m^a \pm 0.001 \ge 20$ TV receivers videotape equipment bMiddle channel of each TV band 04, 08, 25, 55 c $fv \pm 1 d$ $\ge 50$ a The middle frequency of the FM band. b With built-in television broadcast receiving facility in the RF recording mode. c For System L. d Each one falls inside the wanted channel (fv = wanted channel video carrier).	Table 8a - Limits of screening effectiveness of the coaxial antenna terminals $ \frac{1}{Equipment}  \frac{Wanted signal}{Frequency or}  \frac{signal}{frequency}  Level \\ \frac{1}{MHz or N}  \frac{1}{MHz}  AB \\ \frac{1}{FM sound}  f_m^{a}  f_m^{a} \pm 0.001 \geq 20 \\ TV receivers & Middle channel \\ Videotape & of each & TV \\ equipment & band \\ a The middle frequency of the FM band. \\ b & With & built-in television & broadcast receiving \\ facility in the RF recording mode. \\ c & Each & one falls inside the wanted channel (fv = wanted channel video carrier). \\ d & Under Consideration \\ \end{bmatrix} $							

## d) Limits of screening effectiveness of the coaxial antenna terminals

## e) RF e.m. field Keyed carrier

<b>Related Clause or</b>	Deviation										
sub-clause		CISPR 20					K 00020(Korea)				
	Table 15 - Enclosure pParameterTe: specificRF e.m. fieldSee 4AM1 kHz, amodulated carrier a)1 kHz, aRF e.m. field900MKeyed3V/m, carriercycle 1/	port est cation 4.7.1 at 80 % oth //Hz, , duty /8, 217 etition ency / air narge	Test set-up See 4.7.1 and 5.8 IEC 61000-4-3 (With measurement conditions of 5.8.4. and table 23. Filter B.2 replaced by B.4. IEC 61000-4-2	P. C A B	Table 15 - EParameterRF e.m.fieldAMmodulatedcarrierRF e.m.fieldKeyedcarrier	Enclosure port Test specification See 4.7.1 1 kHz, at 80 % depth	t Test set-up See 4.7.1 and 5.8 KS C IEC 61000- 4-3		In Korea,	CDMA was instead o	
	generated by a dummy in a shielded room. The dummy shall be pla of 80 cm, at a distance of front side of the EUT sl of sight. The position sl report. In case of dispute, meas accordance with IEC 61	hod, a no acteristics y GSM pc laced on a of 1 m to shall be pla shall be de usurements 1000-4-3,	as the test specifical ortable telephone) may be non-metallic stand with the EUT (see figure 11). aced in parallel to the and scribed in the measurem	tion (e.g. be applied a height The tenna line ent litions	a) Unmodu CDMA n	4 kV contact discharge	s applied until de	D			

<b>Related Clause or</b>		Deviation									
sub-clause	CISPR 20		K 00020(Korea)		Note						
<b>4.7.1.2</b> Table 17	Table16–LimitsofimmunityelectromagneticfieldsofFMreceptionsound receiversFrequencyMHz0.15to150Except frequency bands: $(f_i - 0.5)$ to $(f_i + 0.5)$ $(f_o - 0.5)$ to $(f_o + 0.5)$ $(f_o - 0.5)$ to $(f_m + 0.5)$ $(f_m - 0.5)$ to $(f_m + 0.5)$ $87.5$ to $108^{a}$ Except the tuned channel $\pm$ 0.15NOTENOTEfi is the intermediate frequencyfo=ft $\pm$ fi is the tuned frequencyfim =ftfrequencyfim =ft $2fi$ is the imageft is the tuned frequencywheresign "+" applies when fo > fta) The frequency range87.5 MHz to108varied depending on the use of the FMband on a national basis.	Level dBuV/m 125 101 109 109 (= 10.7 MHz) al oscillator frequency MHz canbe	electromagnetic fields of FM reception sound receivers Frequency MHz 0.15 to 150 Except frequency bands: $(f_i - 0.5)$ to $(f_i + 0.5)$ $(f_o - 0.5)$ to $(f_o + 0.5)$ $(f_{im} - 0.5)$ to $(f_{im} + 0.5)$ <b>88</b> to 108 Except the tuned channel $\pm 0.15$ NOTE fi is the intermediate frequency	n functions of Level dBuV/m 125 101 109 109 109 109 109 109 209							

#### f) Limits of immunity to ambient e.m. fields of FM sound receivers.

Related Clause or			Deviation		
sub-clause	CISPR 20		K 00020(Korea)		Note
<b>4.7.1.2</b> Table 17	Table17– Limitsofimmunityelectromagneticfields oftelevisionreceivingin the receptionfunction.FrequencyMHz0.15to47Exceptfrequencybands $(f_c - 1.5)$ to $(f_c + 1.5)$ $(f_s - 0.5)$ to $(f_s - 0.5)$ to $(f_s + 0.5)$ $(f_i - 2)$ to $(f_r - 2)$ to $(f_r + 2)^{a)}$ $(f_v - 2)$ to $(f_r - 2)$ to $(f_r + 2)^{b)}$ For non-European countries and Russia47to47to87to108104108to144140150Except the tuned channel $\pm$ 0.5For European countries47to87to108144144to150Except the tuned channel $\pm$ 0.5NOTEfi is the sound intermediate freqfv is the vision intermediate freqfv is the vision intermediate freqfc is the colour subcarrier frequa) For systems B, D, G, K, I, L, Mb) Only for system Lc) The frequency 47MHz can be varied orbasis depending on the use of this frequency range. For television receivers with receptionthis frequency range. For te	vers operating Level dBuV/m 125 101 101 101 101 109 d) 109 125 109 125 109 125 109 125 uency quency iency ency ency function in ceivers without		Level dBuV/m 125 101 101 101 109 <sup>a)</sup> quency equency uency uency uency tenc	

#### g) Limits of immunity to ambient e.m. fields of TV receivers.

## h) Measurement of television receivers and video tape equipment

<b>Related Clause or</b>		Deviation									
sub-clause		CISPR 20	K 00020(Korea)	Note							
5.3.2.2	I the sound carrier kHz at a frequer	<b>cedure</b> – For systems B, G and is frequency modulated with 1 icy deviation of 30 kHz. For carrier is amplitude modulated depth.	Measurement procedure – For system NTSC sound carrier is frequency modulated with 1								
5.4.4	I the sound carrier kHz at a frequer	<b>rement procedure</b> – For systems B, G and und carrier is frequency modulated with 1 a frequency deviation of 30 kHz. For L the sound carrier is amplitude modulated thz at50 % depth.									
Annex H H.1	– For Japan: 76 MHz	egion: 87,5 MHz to 108 MHz z to 90 MHz. e and other regions outside Europe:	<ul> <li>H.1 FM bands</li> <li>For the European region : 87.5 MHz to 108 MHz</li> <li>For Japan : 76 MHz to 90 MHz</li> <li>For Korea : 88 MHz to 108 MHz.</li> <li>For eastern Europe and other regions outside Europe : to be specified.</li> </ul>	Korea FM Broadcasting frequency band added in H.1.							
H2	region	ds defined for the European gion, the following frequency	H.2 Frequency bands defined for Korea For Korea, the following frequency bands are defined:								
	Band	Frequency MHz	BandFrequency MHzI5488								
	I III IV V Hyper	47 to 68 174 to 230 470 to 598 598 to 862 302 to 470	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
Annex I I.6.1 The 3 <sup>rd</sup> paragraph	N+9(only for UHF)	signals are in channels N±1 and or N+19 (only for UHF in Japan). nted signal type B is not required.	Analogue unwanted signals follow Table 5.								