

Appendix 5

Block diagram configuration

1. Test system details

Connected periphery

- Monitor EIZO FlexScan F56
- Main power cable, unshielded, 180cm
- Keyboard Cherry RS 6000
- Mouse Microsoft IntelliMouse
- Data-cable SUB-D9 (Roline), shielded, 149cm, connected to COM1
- Data-cable SUB-D9 (Roline), shielded, 149cm, connected to COM2
- Data-cable USB type A-A (Roline), 180cm, shielded, connected to USB1
- Data-cable USB type A-A (Roline), 180cm, shielded, connected to USB2
- Data-cable USB type A-A (Roline), 180cm, shielded, connected to USB Front
- Printer-cable SUB-D25 (Roline), shielded, 196cm, connected to LPT1
- MIDI-cable SUB-D15 (Roline), shielded, 200cm, connected to MIDI-port
- Passive loudspeaker, unshielded, 120cm, connected to LTSP
- Video cable, shielded, 150 cm, connected to Video Out
- Audio cable, unshielded, 120 cm, connected to LTSP

Conclusion :

"The cables and configuration were manipulated for maximum emissions. The test setup photos show the configuration for maximum emissions".

The calculation of Ufinal are follow:

$$U_{\text{final}} = AF + CF + U_{\text{meas.}}$$

Prüfgrundlage: EN 55022 Cl.B (3m)
Auftraggeber: ESCORT
Prüfgegenstand: PC
Bezeichnung: P4
Prüfer: os
Datum: 2.6.4
Bemerkung: Grenzwert eingehalten
Dateiname:

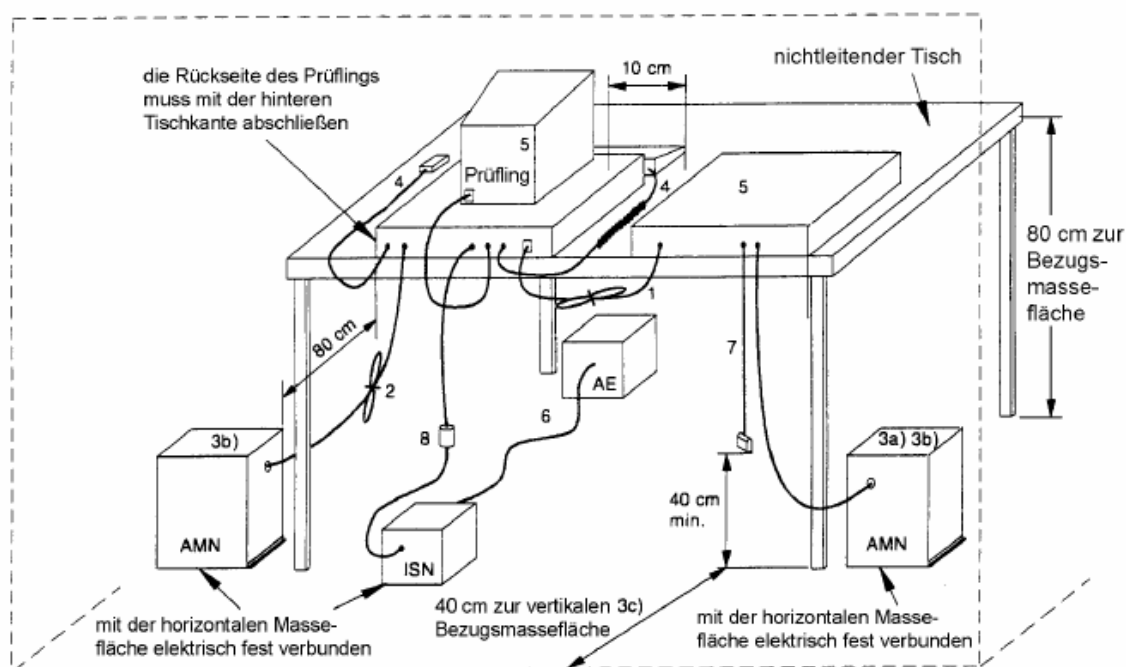
Elektrische Funkstörfeldstärke 30 - 1000 MHz

Frequency	Umeas.		Corr.		Level		Limit	Abweichung
	Horizontal	Vertikal	Horizontal	Vertikal	Horizontal	Vertikal		
[MHz]	dBμV	dBμV	dB1/m	dB1/m	dBμV/m	dBμV/m	dBμV/m	dBμV/m
96,62	21,6	-	9,0	9,0	30,6		40,0	-9,4
133,62	31,0	-	7,9	7,9	38,9		40,0	-1,1
209,03	18,7	-	10,7	10,7	29,4		40,0	-10,6
400,56	20,0	-	16,4	16,4	36,4		47,0	-10,6
501,12	11,5	-	17,8	17,8	29,3		47,0	-17,7
601,00	10,0	-	19,8	19,8	29,8		47,0	-17,2
667,31	11,6	-	21,0	21,0	32,6		47,0	-14,4

The Corr. Data includes AF and CF and Ufinal will be calculated by our software.

Test setup were done according Clause 10 (EN 55022:1998+A1:2000+A2:2000)

2. Block diagram for conducted disturbance at mains ports measurement.



3. Block diagram for radiated disturbance.

