

Mobile station MB560NSB-2 SCANET

FACTORY ACCEPTANCE TEST



1+

ELECTRICAL and MECHANICAL DATA

Fabr.Nr. : _____

APPROVED:

NSB : _____

ASCOM RADIOCOM : _____

DATE : _____

REMARKS :

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1)	Mechanical tests	1.1	Housing
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1. Mechanical tests

1.1 Housing

- 1.1.1 Finish (scratches, screws etc.)
- 1.1.2 Plug connections, external
- 1.1.3 Plug connections, wiring internal
- 1.1.4 Securing of chassis

1.2 Chassis

- 1.2.1 Finish (scratches, screws etc.)
- 1.2.2 Connectors, wiring, back panel
- 1.2.3 Securing of modules
- 1.2.4 Optional bus cable
- 1.2.5 Coaxial cable and connector
- 1.2.6 Designation labels

2. Electrical tests

2.1 Master transmitter	Test pos.	Specification (\pm tolerance)	Test result	Unit
2.1.1 RF power	2.4	$6W \pm 1.5W$		W
2.1.2 Current consumption when transmitting	2.4	$\leq 7A$		A
2.1.3 Frequency deviation	2.5	$f_{nom} \pm 2.5$ kHz		kHz
2.1.4 Normal speech deviation with 1.22V at microphone	8.1	2.6...3.4 kHz		kHz
2.1.5 Frequency response relative to 1 rad	8.1	0.7...1.1 rad		rad
2.1.6 Function of DTMF encoder	8.3 8.4	01234567 89EFABCD		

2.2 Master receiver	Test pos.	Specification (\pm tolerance)	Test result	Unit
2.2.1 Sensitivity for 20 dB S/N (CCITT) channel 14	8.7	$\leq 2 \mu V$ into 50Ω		μV
2.2.2 AF voltage at earpiece at normal deviation	8.9	160...240 mV		mV
2.2.3 Distortion factor at earpiece at normal deviation	8.9	$\leq 10\%$ (CCITT)		%
2.2.4 S/N at earpiece at normal deviation	8.9	> 40 dB		dB
2.2.5 CCIR decoder function	8.13 8.14			
2.2.6 SINAD, when squelch switches AF on UHF on for AF UHF off for AF SQU hysteresis	8.15	≥ 17 dB (CCITT) ≤ -107 dBm < 4 dB		dB dBm

2.3 Shunting transmitter	Test pos.	Specification (\pm tolerance)	Test result	Unit
2.3.1 RF power	2.1	$6W \pm 1.5W$		W
2.3.2 Current consumption when transmitting	2.1	$\leq 7A$		A
2.3.3 Frequency deviation	2.2	$f_{nom} \pm 2.5$ kHz		kHz
2.3.4 Normal speech deviation with 1.22V at microphone	7.1	2.6...3.4 kHz		kHz
2.3.5 Frequency response relative to 1 rad	7.1	0.7...1.1 rad		rad
2.3.6 Function of CCIR encoder	7.3 7.4	012345 678999		

2.4 Shunting receiver	PA pos.	Specification (\pm tolerance)	Test result	Unit
2.4.1 Sensitivity for 20 dB S/N (CCITT) channel 06	7.7	$\leq 2 \mu\text{V}$ into 50Ω		μV
2.4.2 AF voltage at earpiece at normal deviation	7.9	160...240 mV		mV
2.4.3 Distortion factor at earpiece at normal deviation	7.9	$\leq 10\%$ (CCITT)		%
2.4.4 S/N at earpiece at normal deviation	7.9	> 40 dB		dB
2.2.5 DTMF decoder function	7.13			
2.4.6 SINAD, when squelch switches AF on UHF on for AF UHF off for AF SQU hysteresis	7.14	≥ 17 dB (CCITT) ≤ -107 dBm < 4 dB		dB dBm

2.5 Miscellaneous tests	PA pos.	Specification (\pm tolerance)	Test result	Unit
2.5.1 Scanner response threshold General scanner functions	9.1	$\leq 2 \mu\text{V}$		μV into 50Ω
2.5.2 AF output amplifier on CUA into 4Ω	4.2	1.1...1.86		V
2.5.3 Tone generator 0 on HoeCU	5.63	380...480 mV		mV
2.5.4 Tone generator 1 on HoeCU	5.32	380...480 mV		mV
2.5.5 Tone generator 2 on HoeCU	5.1	380...480 mV		mV
2.5.6 Function check of 1200 Bd modem	10.1 -10.4			
2.5.7 Current interface infoT1 (ATC)	>>>>	Chapter 5.13		
2.5.8 Current interface infoT2 (printer)	>>>>	Chapter 5.13		
2.5.9 Current interface ED (CU)	>>>>	Chapter 5.13		