

AT800 System Test Coverage for GSM/GPRS/EGPRS

3GPP TS51.010-1, Quad Band 850/900/1800/1900

	Transceiver Tests
12.1.1	Conducted Spurious Emissions, MS allocated channel
12.1.2	Conducted Spurious Emissions, MS in idle mode
	GSM Transmitter Tests
13.1	Phase & Frequency Error
13.2	Frequency Error Under Fading
13.3	Tx Output Power (Normal Burst)
	Monotonic Power Sequence
	Power vs. Time (Burst Timing) (Normal Burst)
	Tx Output Power (Access Burst)
	Power vs. Time (Burst Timing) Access Burst
13.4	ORFS (Output RF Spectrum) due to Modulation
	ORFS due to Switching
	Wideband Noise, 1800KHz offset to Edge of Tx band
	Spurious Emissions in MS Rx band
	GPRS Transmitter Tests
13.16.1	Phase & Frequency Error in GPRS multislot Configuration
13.16.2	Tx Output Power in GPRS multislot configuration (Normal Burst)
	Monotonic Power Sequence in GPRS configuration
	Power vs. Time (Burst Timinig) in GPRS configuration (Normal Burst)
	Tx Output Power in GPRS multislot configuration (Access Burst)
	Power vs. Time (Burst Timinig) in GPRS configuration (Access Burst)
13.16.3	ORFS (Output RF Spectrum) due to Modulation in GPRS multislot configuration
	ORFS due to Switching in GPRS multislot configuration
	Wideband Noise, 1800KHz offset to edge of Tx band in GPRS multislot configuration
	Spurious Emissions in MS Rx band in GPRS multislot configuration
	EGPRS Transmitter Tests
13.17.1	Frequency error in EGPRS configuration
	Modulation accuracy in EGPRS configuration
13.17.2	Frequency error under multipath and interference conditions in EGPRS configuration
13.17.3	EGPRS Transmitter output power
	ORFS (Output RF Spectrum) due to Modulation in EGPRS configuration

13.17.4	ORFS due to Switching in EGPRS configuration
	Wideband Noise, 1800KHz offset to edge of Tx band in EGPRS configuration
	Spurious Emissions in MS Rx band in EGPRS configuration
	GSM Receiver Tests
14.1.1.1	Bad frame indication - TCH/FS - Random RF input
14.1.1.2	Bad frame indication - TCH/FS - Frequency hopping and downlink DTX
14.2.1	Reference Sensitivity, TCH/FS
	Reference Sensitivity, Speech TUH
	Reference Sensitivity, Speech RA
	Reference Sensitivity, Speech HT
14.2.2	Reference Sensitivity, TCH/HS
	Reference Sensitivity, Speech TUH
	Reference Sensitivity, Speech RA
	Reference Sensitivity, Speech HT
14.2.3	Reference Sensitivity, FACCH/F
14.2.4	Reference Sensitivity, FACCH/H
14.2.5	Reference Sensitivity, Full Rate Data Channel
14.2.7	Reference Sensitivity, TCH/EFS, Static
	Reference Sensitivity, Speech TUH
	Reference Sensitivity, Speech RA
	Reference Sensitivity, Speech HT
14.2.10	Reference Sensitivity, TCH/AFS
14.2.18	Reference Sensitivity, TCH/AHS
14.3	Usable Receiver Input Level Range, Static
	Usable Receiver Input EQ
14.4.1	Co-Channel Rejection, TCH/FS, Static
	Co-Channel Rejection, Speech TUL
	Co-Channel Rejection, Speech TUH
14.4.2	Co-Channel Rejection, TCH/HS
	Co-Channel Rejection, Speech TUH
14.4.4	Co-Channel Rejection, FACCH/F
14.4.5	Co-Channel Rejection, FACCH/H
14.4.6	Co-Channel Rejection, TCH/EFS
	Co-Channel Rejection, Speech TUL
	Co-Channel Rejection, Speech TUH
14.4.7	Receiver performance, co-channel & frequency hopping on one carrier
14.4.8	Co-Channel Rejection, TCH/AFS
14.4.16	Co-Channel Rejection, TCH/AHS
14.5.1.1	Adjacent Channel Rejection, Speech Channel, TCH/FS
14.5.1.2	Adjacent Channel Rejection, Speech Channel, TCH/AFS

14.5.1.3	Adjacent Channel Rejection, Speech Channel, TCH/AHS
14.5.2	Adjacent Channel Rejection, Control Channel
14.6.1	Intermodulation Rejection, Speech Channel
14.7.1	Blocking & Spurious Response, Speech Channel
14.8.1	AM Suppression, Speech Channel
14.8.2	AM Suppression, Control Channel
GPRS Receiver Tests	
14.16.1	Minimum Input Level for Reference Performance for GPRS operation, Static
	Minimum Input Level, TUH
	Minimum Input Level, TUH_FH
	Minimum Input Level, RA
	Minimum Input Level, HT
14.16.2.1	Co-Channel Rejection for Packet Channel, Static
	Co-Channel Rejection for Packet Channel, TUL
	Co-Channel Rejection for Packet Channel, TUH
	Co-Channel Rejection for Packet Channel, TUH_FH
	Co-Channel Rejection for Packet Channel, RA
EGPRS Receiver Tests	
14.18.1	Minimum Input Level for Reference Performance for EGPRS operation, Static
	Minimum Input Level EGPRS, TUH
	Minimum Input Level EGPRS, TUH_FH
	Minimum Input Level EGPRS, RA
	Minimum Input Level EGPRS, HT
14.18.2	Co-Channel Rejection for EGPRS operation, Static
	Co-Channel Rejection EGPRS, TUL
	Co-Channel Rejection EGPRS, TUH
	Co-Channel Rejection EGPRS, TUH_FH
	Co-Channel Rejection EGPRS, RA
14.18.3	Adjacent Channel Rejection for EGPRS operation, Static
	Adjacent Channel Rejection EGPRS, TUL
	Adjacent Channel Rejection EGPRS, TUH
	Adjacent Channel Rejection EGPRS, RA
14.18.4	Intermodulation Rejection for EGPRS operation
14.18.5	Blocking and spurious response for EGPRS operation
14.18.6	EGPRS Usable receiver input level range
Received signal measurements	
21.1	Signal strength
21.2	Signal strength selectivity
21.3.1	Signal quality under static conditions - TCH/FS no DTX