Transmitter Characteristics (Chapter 6) Release 13			
	Refer to 1MA154	**FSW w/ FSW-K10x**	
Chapter (TS36.141)	**Test**	**SC**	**MC**
6.2	BS Max Output Power	☑	☑
6.2.6	Home BS Output Power adjacent W-CDMA	☑	—
6.2.7	Home BS Output Power adjacent LTE	☑	—
6.2.6	Home BS Output Power co-channel LTE	☑	—
6.3.1	RE power control dynamic range	No dedicated test, covered by 6.5.2	
6.3.2	Total Power Dynamic Range	☑	—
6.3.3	NB-IoT RB power dynamic range for in-band or guard band operation	☑	—
6.4	Transmit ON/OFF Power (6.4.1 Off power + 6.4.2 Transient period)	☑	☑
6.5.1	Frequency Error	☑	—
6.5.2	Error Vector Magnitude (EVM)		
6.5.3	Time Alignment Error	☑	☑
6.5.4	Reference Symbol Power	☑	—
6.6.1	Occupied Bandwidth	☑[1]	☑[1]
6.6.2	Adjacent Channel Leakage Power (ACLR)	☑	☑
6.6.3	Operating Band Unwanted Emissions (SEM)	☑	☑
6.6.4	Transmitter Spurious Emissions	☑[1]	☑[1]
6.7	Transmitter Intermodulation	☑	☒

☑ Test available in Demo-program   1: uses basic function of FSx

— Test not mandated by TS36.141   ☒ Test not supported in Demo-program at this time

Receiver Characteristics (Chapter 7) Release 13	
	Refer to 1MA195
Chapter (TS36.141)	**Test**
7.2	Reference Sensitivity Level
7.3	Dynamic Range
7.4	In-channel Selectivity
7.5	Adjacent Channel Selectivity (ACS) and Narrow-band Blocking
7.6	Blocking
7.7	Receiver Spurious Emissions
7.8	Receiver Intermodulation

For multi-carrier scenarios, 3 LTE paths (baseband sections in SMx) are necessary:

1 unit SMW200A + external generator (e.g. SGS)

Performance requirements (Chapter 8) Release 13		
	Refer to 1MA162	
Chapter (TS36.141)	Name	Comment
8.2.1	PUSCH in multipath fading propagation conditions transmission on single antenna port	2 , 4 or 8 RX antennas
8.2.1A	PUSCH in multipath fading propagation conditions transmission on two antenna ports	2 , 4 or 8 RX antennas ,MIMO
8.2.2	Uplink timing adjustment	
8.2.3	HARQ-ACK multiplexed on PUSCH	
8.2.4	High Speed Train conditions	
8.2.5	Performance requirements for PUSCH with TTI bundling and enhanced HARQ pattern	
8.2.6	Enhanced performance requirements type A of PUSCH in multipath fading propagation conditions with synchronous interference	
8.2.6A	Enhanced performance requirements type A of PUSCH in multipath fading propagation conditions with asynchronous interference	
8.2.7	Performance requirements of PUSCH in multipath fading propagation conditions transmission on single antenna port for coverage enhancement	
8.2.8	Enhanced performance requirements type A of PUSCH in multipath fading propagation conditions with asynchronous interference	
8.3.1	ACK missed detection for single user PUCCH format 1a	2 , 4 or 8 RX antennas
8.3.2	CQI missed detection for PUCCH format 2 transmission on single antenna port	
8.3.3	ACK missed detection for multi user PUCCH format 1a	2 , 4 or 8 RX antennas , MIMO
8.3.4	ACK missed detection for PUCCH format 1b with Channel Selection	2 , 4 or 8 RX antennas
8.3.5	ACK missed detection for PUCCH format 3	2 , 4 or 8 RX antennas
8.3.6	NAK to ACK detection for PUCCH format 3	2 , 4 or 8 RX antennas

8.3.7	ACK missed detection for single user PUCCH format 1a on two antenna ports	2 , 4 or 8 RX antennas, MIMO
8.3.8	CQI missed detection for PUCCH format 2 transmission on two antenna ports	MIMO
8.3.9	CQI performance requirements for PUCCH format 2 with DTX detection	MIMO
8.3.10	ACK missed detection for PUCCH format 1a transmission on single antenna port for coverage enhancement	
8.3.11	CQI performance requirements for PUCCH format 2 transmission on single antenna port for coverage enhancement	
8.3.12	ACK missed detection for PUCCH format 4	2 , 4 or 8 RX antennas
8.3.13	ACK missed detection for PUCCH format 5	2 , 4 or 8 RX antennas
8.4.1	PRACH false alarm probability and missed detection	2 , 4 or 8 RX antennas
8.5.1	Performance requirements for NPUSCH format 1	
8.5.2	ACK missed detection for NPUSCH format 2	
8.5.3	Performance requirements for NPRACH	

- Tests with 4 RX antennas and Test 8.3.3 need 1 fully equipped unit SMW200A + 2 SGS
- Tests with 8 RX antennas need 1 fully equipped unit SMW200A + 2 SGS + 4 SGT
- Yellow marked test will be implemented later