Component	G [dB]	Input Power [dBm]	Output Power [dBm]	Max Input Power [dBm]	Comments
X-Band Data N1 Downlink RF Power Budgets - Main Line					
DUT					
Transmitted Power @ Transmitter port	-	-	**40,0**	N/A	EWC30 Pout at output DSN filter (900830_X-040-752_User_Manual_Annex FM1_v1.0)
Connector Saver #2	-0,1	40,0	39,9	-	R340200302B Attenuation corresponds to SV Microwave 95077 measured previously
RF Cable W10	-1,2	39,9	38,8	47,8	MCJ088D, G from cable characterization.
Connector Saver #3	-0,1	38,8	38,7	-	R340200302B . Attenuation corresponds to SV Microwave 95077 measured previously
DSN Filter	-0,6	38,7	38,1	-	Attenuation corresponds to EM filter measured previously
Connector Saver #4	-0,1	38,1	38,0	-	SV Microwave 95077. Attenuation corresponds to other SV Microwave 95077 measured previously
CEGSE - Main line					
Input Power @ CEGSE port	-	**38,0**	-	-	
RF Cable W2	-1,2	38,0	36,8	47,8	MCJ088D + (Adapter#3) PE9212. Attenuation corresponds to other MCJ088D measured previously
RF Cable W3	-0,5	36,8	36,3	47,8	MCJ088D, G from cable characterization.
RF Cable W4	-1,0	36,3	35,3	47,8	PE91337 (AD#1) + MCJ088D + (Adapter#1) PE9312 , G from characterization.
Bidirectional Coupler (IN-OUT)	0,0	35,3	35,3	50,0	Mini-circuits ZGBDC35-93HP+, G from characterization.
Fixed Attenuator	-19,6	35,3	15,7	43,0	Mini-circuits BW-N20W20+, G from characterization.
RF Cable W5	-1,2	15,7	14,4	47,8	PE91337 (AD#2) + MCJ088D-0-0197-3Q03Q0 + PE91337 (AD#3). G from cable charaterization.
CEGSE Variable Attenuator 10dB step	-0,7	14,4	13,7	30,0	Agilent 8496B-001, G from characterization.
RF Cable W6	-1,4	13,7	12,3	-	UT-141-FORM-0315-380580/A, G from characterization.
SMA to N adapter	-0,1	12,3	12,3	-	PE9104. Attenuation is estimated.
Output Power @ CEGSE port	-	-	**12,3**	-	

Component	G [dB]	Input Power [dBm]	Output Power [dBm]	Max Input Power [dBm]	Comments
X-Band Data Downlink RF Power Budgets - Instrumentation line					
Interconnetion Elements - Instrumentation line					
RF Cable XRF4.02	-4,2	12,3	8,1	54,7	UFA 210A-0-3937-70U300, 10m, G from characterization.
DC Block	-0,4	8,1	7,7	-	PE8213, G from characterization.
PXA @ Input port		**7,7**		30,0	

X-Band Data Downlink Resume (N1)		
Parameter	Condition	
	Nominal	Maximun Levels
CEGSE Variable Attenuator 10dB step	-0,7	-
Pin PXA	7,7	7,7
Ofset PXA	-32,3	