Component   Com	X-Band Data N2 Downlink RF Power Budgets - Main Line						
Contention   Content   C	Component		Power	Power	Power [dBm]	Comments	
Part   Color   Vision   Fig.	Transmitted Power @ Transmitter port	-	-	40,0			
For Cable W   Proceedings   Process   Proce	Connector Saver #2	-0,1	40,0	39,9	-	R340200302B Attenuation corresponds to SV Microwave 95077 measured	
Second   S	RF Cable W10	-1,2	39,9		47,8		
SSA PRINE   -2,6   38.7   38.1   -3.8   All Anti-Anti-Corresponds to the Miller researce group of the Corrector Survey & -2.0   -3.0	Connector Saver #3	-0,1	38,8	38,7	-	·	
180   1907   1908   1907   1908   1907   1908   1907   1908   1	DSN Filter	-0,6	38,7	38,1	-		
Mary   Province   CEGSE   Port	Connector Saver #4	-0,1	38,1	38,0	-		
RF Carble W2				CEGS	SE - Main line		
Fire Cautile W3	Input Power @ CEGSE port	-	38,0	-	-	MO 1000D + (Adapte #0) PE0040 Attacks to a state of the s	
RF Cable W4	RF Cable W2	-1,2	38,0	36,8	47,8		
According   Acco	RF Cable W3	-0,5	36,8	36,3	47,8	,	
Fixed abrowable   1-9.0	RF Cable W4	-1,0	36,3	35,3	47,8		
Fig. Cable   WG   WG   Serial   Seria	1 , ,				-	· ·	
Comment   Com		,	,	,	,	DE04007 (AD#0) + MO 1000D 0 0407 000000 + DE04007 (AD#0) O from	
FR Cable WG		·	,	, , , , , , , , , , , , , , , , , , ,	,-	cable charaterization.	
County   Power @ CEGSE port   -     -		,			-		
PF Cable XRF4.02	SMA to N adapter	-0,1	-7,8		-	PE9104. Attenuation is estimated.	
Noise Source (dBmHz)	Output Power @ CEGSE port	-			- Elements	Main line	
Notes Source (dBm/Hz)	RF Cable XRF4.02	-4,2					
Notes Source (dBm/Hz)							
Power Output (dBm)	Noice Source (dRm/Hz)				· ·	· ·	
Noise Source (dBm)	` ,			-		, , , , ,	
Sectional Attenuator ATT10.01 (01)   -10,0   -6,5   -16,5	. , ,	-	-		-		
X-Band Upconverter TestBet   2,0   0,0	RF Cable PE300-60-03	-0,5	-6,0	-6,5	-	G from characterization.	
Name	External Attenuator ATT10.01 (01)		-6,5	-16,5	-		
RF Cable SRF3.02	X-Band Upconverter TestBet		-16.5	5.5	10.0		
Received Power @ N1 GSE port   -   -32,0   -34,2   51,7   PE301-60, G characterization from XFR3.12.	RF Cable SRF3.02				· ·		
Received Power @ Nf GSE port   -2,   -32,0   -4,	Output Noise Power @TestBed port			-32,0	-		
Received Power @ Nf GSE port   -2,   -32,0   -4,	GS_GSF - Main line						
Received Power @ N2 GSE port	Received Power @ N1 GSE port	-	-32,0	-	-		
X Band External Attenuators   -3.0,	RF Cable XRF3.12 (N1)	-2,1	-32,0	-34,2	51,7	PE301-60, G characterization from XFR3.12.	
RF Cable XRF3.13 (N2)   -2,2   -42,2   -44,3   51,7   PE301-60, G characterization from XFR3.13.     X-Band Matrix and Attenuator (N1-DC1)   -30,6   -33,8   -64,4   -65,5   -64,4   -64,44   -65,44   -65,44   -64,44   -64,44   -64,44   -64,44   -64,44		-			-		
X-Band Matrix and Attenuator (N1-DC1)							
X-Band Matrix and Attenuator (N1-DC1)				,			
Name	X-Band Matrix and Attenuator (N1-DC1)		-33,8	-64,4			
RF Cable XRF3.06	X-Band Matrix and Attenuator (N2-DC2)		-33,8	-64,4	30		
X-Band Downconverter N2   29,1   0,0   0.0   0	RF Cable XRF3.06		-64,4	-65,5	48		
Internal variable attenuator from XBDC.   PE301-60. G characterization from XRF3.08.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.   Pownsinal values: -30dBm to -40dBm, -10dBm to -40dBm to -40dBm, -10dBm to -40dBm t	Y.Rand Downconverter N2	29,1		-36.5	10.0	Measured Gain: 25,1dB@4dB attenuation. NF 11dB from ATR.	
Demodulator (D)         -37,0         N/A         -10         Nominal values: -30dBm to -40dBm, -10dBm to -50dBm aceptable values.           Exceived Power (dBm)         -         42,2         -         N1 GS-GSE-FM (R) input port           Received Power Noise (dBm)         -         42,2         -         N2 GS-GSE-FM (R) input port           Received Power Noise in (dBm/Hz)         -         1-25,0         -         -         Power Spectral Density.           Bit Rate (dB.Hz)         -         80,8         -         -         Power Spectral Density.           Estimated C/N0 @N2, N1 GS-GSE (dB. Hz)         -         82,9         -         -         Power Spectral Density.           Required C/N0 (dB.Hz)         -         86,6         -         -         For QPSK @ BER <=1E-6, Coding Gain for CC 7 1/2, 1dB implementation loss			-		,		
Received Power (dBm)		-0,5			- ,		
Received Power (dBm)	Demodulator (D)		-51,0	IV/A	-10	Nonlinal values: -500DIII to -400DIII, -100DIII to -500DIII aceptable values.	
Received Power Noise (dBm)					Eb/N0		
Received Power Noise in (dBm/Hz)	` '	-		-	-		
Bit Rate (dB.Hz)	` '						
Estimated C/N0 @N2, N1 GS-GSE (dB. Hz) - 82,9 for QPSK @ BER <=1E-6, Coding Gain for CC 7 1/2, 1dB implementation loss  Eb/No estimated (dB) - 2,1    X-Band Data Downlink Resume (N2)  Parameter	` '	-			-	rower spectral pensity.	
Required C/N0 (dB.Hz)	Estimated C/N0 @N2, N1 GS-GSE (dB.		,				
Required C/N0 (dB.Hz)         -         86,6         -         -         loss           Eb/No estimated (dB)         -         2,1         -         -           X-Band Data Downlink Resume (N2)           Parameter         Contion         S         -           Nominal         Maximun Levels         -         -           CEGSE Variable Attenuator 10dB step         -20,7         -0,7         -           Noise Source (dBm/Hz)         -99,0         -93,0         -	HZ)	-	82,9	-	-	for QPSK @ BER <=1E-6, Coding Gain for CC 7 1/2. 1dB implementation	
X-Band Data Downlink Resume (N2)	. , , ,			-	-		
Contion         Combinal         Combinal         Maximun Levels           CEGSE Variable Attenuator 10dB step         -20,7         -0,7	Eb/No estimated (dB)	-	2,1	-	-		
Parameter         Nominal Levels         Maximun Levels         CEGSE Variable Attenuator 10dB step         -20,7         -0,7         -0,7         -9,0         -93,0	X-Band Data Downlink Resume (N2)						
Nominal     Nominal Levels       CEGSE Variable Attenuator 10dB step     -20,7       Noise Source (dBm/Hz)     -99,0       -93,0	Parameter						
Noise Source (dBm/Hz) -99,0 -93,0	- didinotoi	Nominal					
	-						
Pin Demodulator -37,0 -26,0	` ′						
	Fin Demodulatol	-37,0	-26,0				