

NOTE: Select Here: Choice Made:

UPLINK: **Modulation, Coding & BER Option:** 18 QPSKw.FEC Result:

Command Link

Eb/No:
Threshold
10.6
dB

Option:	Modulation Type:	Coding:	Bit Error Rate Spec:	Required Eb/No (dB):
1	AFSK/FM	None	1.00E-04	21.0
2	AFSK/FM	None	1.00E-05	23.2
3	G3RUH FSK	None	1.00E-04	16.7
4	G3RUH FSK	None	1.00E-05	18.0
5	Non-Coherent FSK	None	1.00E-04	13.4
6	Non-Coherent FSK	None	1.00E-05	13.8
7	Coherent FSK	None	1.00E-04	10.5
8	Coherent FSK	None	1.00E-05	11.9
9	GMSK	None	1.00E-04	8.4
10	GMSK	None	1.00E-05	9.6
11	BPSK	None	1.00E-05	9.6
12	BPSK	None	1.00E-06	10.5
13	QPSK	None	1.00E-05	9.6
14	QPSK	None	1.00E-06	10.5
15	BPSK	Convolutional R=1/2, K=7	1.00E-06	4.8
16	BPSK	Conv. R=1/2,K=7 & R.S. (255,223)	1.00E-06	2.5
17	BPSK	Conv. R=1/6,K=15 & R.S. (255,223)	1.00E-07	0.8
18	QPSKw.FEC	Reed Solomon FEC	1.00E-06	9.6

Operator Estimate of Implementation Loss

NOTE: **Implementation Loss Estimate:** 1.0 dB

UPLINK: **DOWNLINK:**

Select Here: Choice Made:

DOWNLINK: **Modulation, Coding & BER Option:** 19 16QAM Result:

Telemetry Link:

Eb/No:
Threshold
0.9
dB

Option:	Modulation Type:	Coding:	Bit Error Rate Spec:	Required Eb/No (dB):
1	AFSK/FM	None	1.00E-04	21.0
2	AFSK/FM	None	1.00E-05	23.2
3	G3RUH FSK	None	1.00E-04	16.7
4	G3RUH FSK	None	1.00E-05	18.0
5	Non-Coherent FSK	None	1.00E-04	13.4
6	Non-Coherent FSK	None	1.00E-05	13.8
7	Coherent FSK	None	1.00E-04	10.5
8	Coherent FSK	None	1.00E-05	11.9
9	GMSK	None	1.00E-04	8.4
10	GMSK	None	1.00E-05	9.6
11	BPSK	None	1.00E-05	9.6
12	BPSK	None	1.00E-06	10.5
13	QPSK	None	1.00E-05	9.6
14	QPSK	None	1.00E-06	10.5
15	BPSK	Convolutional R=1/2, K=7	1.00E-06	4.8
16	BPSK	Conv. R=1/2,K=7 & R.S. (255,223)	1.00E-06	2.5
17	BPSK	Conv. R=1/6,K=15 & R.S. (255,223)	1.00E-07	0.8
18	BPSK	Turbo Code (Parallel w. Interleaver)	1.00E-06	0.75
19	16QAM	Reed Solomon FEC	1.00E-07	0.9

Operator Estimate of Implementation Loss

NOTE: **Implementation Loss Estimate:** 0.0 dB

Binary Phase Shift Keying (BPSK) Performance

