

## ANEXO TABLAS

### Escenario 1, Caso de Estudio 1:

#### - Espaciamiento de 25 GHz:

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	40	1e-40	0	48.6667	16.1667	0.0101	0.0851
80	40	1e-40	0	48.6667	16.1667	0.0109	0.0859
100	40	1e-40	0	48.6667	16.1667	0.0109	0.0859
150	40	1e-40	0	48.6667	16.1667	0.0109	0.0859
200	36.1473	1e-40	0	48.6667	16.1667	0.0091	0.0841
250	35.6454	1e-40	0	48.6667	16.1667	0.0119	0.0869
300	31.6624	1e-40	0	48.6667	16.1667	0.0100	0.085
350	28.5223	1e-40	0	48.6667	16.1667	0.0111	0.0861
400	26.5624	1e-40	0	48.6667	16.1667	0.0111	0.0861
450	24.1239	1e-40	0	48.6667	16.1667	0.0102	0.0852

#### - Espaciamiento de 50 GHz:

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	40	1e-40	0	48.6075	16.1470	0.0102	0.1602
80	40	1e-40	0	48.6075	16.1470	0.0110	0.161
100	40	1e-40	0	48.6075	16.1470	0.0110	0.161
150	40	1e-40	0	48.6075	16.1470	0.0121	0.1621
200	40	1e-40	0	48.6075	16.1470	0.0126	0.1626
250	40	1e-40	0	48.6075	16.1470	0.0120	0.162
300	39.8172	1e-40	0	48.6075	16.1470	0.0123	0.1623
350	36.9947	1e-40	0	48.6075	16.1470	0.0123	0.1623
400	36.0850	1e-40	0	48.6075	16.1470	0.0125	0.1625
450	23.9419	1e-40	0	48.6075	16.1470	0.0136	0.1636

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + \text{dF}$ (THz)
50	100	1e-40	0	48.8081	16.2137	0.0171	0.3171
<b>80</b>	<b>100</b>	<b>1e-40</b>	<b>0</b>	<b>48.8081</b>	16.2137	<b>0.0132</b>	<b>0.3132</b>
100	100	1e-40	0	48.8081	16.2137	0.0166	0.3166
150	100	1e-40	0	48.8081	16.2137	0.0168	0.3168
200	100	1e-40	0	48.8081	16.2137	0.0174	0.3174
250	100	1e-40	0	48.8081	16.2137	0.0178	0.3178
300	37.5470	1e-40	0	48.8081	16.2137	0.0178	0.3178
350	36.8014	1e-40	0	48.8081	16.2137	0.0168	0.3168
400	28.9620	1e-40	0	48.8081	16.2137	0.0149	0.3149
450	21.9680	1e-40	0	48.8081	16.2137	0.0149	0.3149

**Escenario 1, Caso de Estudio 2:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)
10	40	1e-40	0	56.8044	18.87	0.0307
20	30.44	1e-40	0	56.8044	18.87	0.0309
30	22.66	1e-40	0	56.8044	18.87	0.0306
40	21.44	6.16e-30	0	56.8044	18.87	0.0309
50	17.59	1.83e-14	0	56.8044	18.87	0.0311
51	16.95	2.13e-12	0	56.8044	18.87	0.0308
60	14.61	5.99e-8	0	56.8044	18.87	0.0316
70	12.25	2.55e-5	0	56.8044	18.87	0.0305
80	9.80	0.001093	0	56.8044	18.87	0.0314
90	7.28	0.009467	0	56.8044	18.87	0.0309
100	6.02	2.28e-2	0	56.8044	18.87	0.0305

**Escenario 2, Caso de Estudio 1:**

**- Espaciamiento de 25 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	34.5127	1e-40	0	50.4509	16.7594	0.0131	0.0881
80	31.7352	1e-40	0	50.4509	16.7594	0.0131	0.0881
100	31.1631	1e-40	0	50.4509	16.7594	0.0131	0.0881
150	33.0850	1e-40	0	50.4509	16.7594	0.0131	0.0881
200	35.2197	1e-40	0	50.4509	16.7594	0.0138	0.0888
250	36.2949	1e-40	0	50.4509	16.7594	0.0127	0.0877
300	27.5262	1e-40	0	50.4509	16.7594	0.0128	0.0878
350	33.9422	1e-40	0	50.4509	16.7594	0.0128	0.0878
400	31.6184	1e-40	0	50.4509	16.7594	0.0128	0.0878
450	23.6730	1e-40	0	50.4509	16.7594	0.0128	0.0878

**- Espaciamiento de 50 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	40	1e-40	0	49.0460	16.2927	0.0274	0.1774
80	37.5742	1e-40	0	49.0460	16.2927	0.0274	0.1774
100	37.9201	1e-40	0	49.0460	16.2927	0.0274	0.1774
150	33.2582	1e-40	0	49.0460	16.2927	0.0206	0.1706
200	32.3821	1e-40	0	49.0460	16.2927	0.0220	0.172
250	30.0675	1e-40	0	49.0460	16.2927	0.0220	0.172
300	27.6356	1e-40	0	49.0460	16.2927	0.0220	0.172
350	24.8793	1e-40	0	49.0460	16.2927	0.0220	0.172
400	24.6143	1e-40	0	49.0460	16.2927	0.0220	0.172
450	22.2191	1e-40	0	49.0460	16.2927	0.0197	0.1697

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + \text{dF}$ (THz)
50	34.5076	1e-40	0	48.6284	16.1540	0.0416	0.3416
80	35.9553	1e-40	0	48.6284	16.1540	0.0416	0.3416
100	37.6784	1e-40	0	48.6284	16.1540	0.0416	0.3416
150	36.4022	1e-40	0	48.6284	16.1540	0.0416	0.3416
200	35.3478	1e-40	0	48.6284	16.1540	0.0416	0.3416
250	37.6762	1e-40	0	48.6284	16.1540	0.0416	0.3416
300	27.7977	1e-40	0	48.6284	16.1540	0.0416	0.3416
350	36.2191	1e-40	0	48.6284	16.1540	0.0416	0.3416
400	31.4016	1e-40	0	48.6284	16.1540	0.0416	0.3416
450	23.3484	1e-40	0	48.6284	16.1540	0.0416	0.3416

**Escenario 2, Caso de Estudio 2:**

**- Espaciamiento de 25 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + \text{dF}$ (THz)
10	23.2507	1e-40	0	52.572	17.464	0.0220	0.097
20	20.1621	1.25e-23	0	52.572	17.464	0.0220	0.097
28	16.7905	6.50e-12	0	52.572	17.464	0.0218	0.0968
30	16.0402	3.87e-10	0	52.572	17.464	0.0214	0.0964
40	15.3758	2.33e-9	0	52.572	17.464	0.0211	0.0961
50	14.5589	5.84e-8	0	52.572	17.464	0.0210	0.096
60	13.7135	6.63e-7	0	52.572	17.464	0.0212	0.0962
70	11.0141	2.09e-4	0	52.572	17.464	0.0211	0.0961
80	8.5893	3.11e-3	0	52.572	17.464	0.0215	0.0965
90	6.6570	0.01914	0	52.572	17.464	0.0214	0.0964
100	6.0206	2.28e-2	0	52.572	17.464	0.0214	0.0964

**- Espaciamiento de 50 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
10	40	1e-40	0	49.6005	16.4769	0.0325	0.1825
20	30.3316	1e-40	0	49.6005	16.4769	0.0320	0.1820
30	22.4450	1e-40	0	49.6005	16.4769	0.0313	0.1813
40	20.8359	1.33e-26	0	49.6005	16.4769	0.0312	0.1812
50	17.7286	6.87e-15	0	49.6005	16.4769	0.0312	0.1812
51	17.2559	1.16e-12	0	49.6005	16.4769	0.0311	0.1811
60	14.2716	2.02e-7	0	49.6005	16.4769	0.0312	0.1812
70	12.0024	3.29e-5	0	49.6005	16.4769	0.0312	0.1812
80	9.3889	0.001664	0	49.6005	16.4769	0.0311	0.1811
90	7.0055	0.012282	0	49.6005	16.4769	0.0311	0.1811
100	6.0206	2.28e-2	0	49.6005	16.4769	0.0320	0.1820

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
10	40	1e-40	0	46.3126	15.3847	0.0329	0.3329
20	30.4155	1e-40	0	46.3126	15.3847	0.0319	0.3319
30	22.3938	3.18e-38	0	46.3126	15.3847	0.0319	0.3319
40	20.7917	4.83e-28	0	46.3126	15.3847	0.0323	0.3323
50	17.6455	2.25e-14	0	46.3126	15.3847	0.0318	0.3318
52	16.9508	2.14e-12	0	46.3126	15.3847	0.0319	0.3319
60	14.2762	1.86e-7	0	46.3126	15.3847	0.0318	0.3318
70	11.7465	5.31e-5	0	46.3126	15.3847	0.0328	0.3328
80	9.2500	0.0020027	0	46.3126	15.3847	0.0323	0.3323
90	6.8469	0.0135492	0	46.3126	15.3847	0.0323	0.3323
100	6.0206	2.28e-2	0	46.3126	15.3847	0.0318	0.3318

**Escenario 2, Caso de Estudio 3:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)
1	22.0825	8.94e-35	0	46.3318	15.3911	0.1281
2	19.9321	2.4e-23	0	46.3318	15.3911	0.1258
3	17.1926	6.59e-18	0	46.3318	15.3911	0.1250
4	14.3534	8.45e-13	0	46.3318	15.3911	0.1250
3.1	16.9010	2.20e-12	0	46.3318	15.3911	0.1266
5	11.6254	6.61e-5	0	46.3318	15.3911	0.1244
6	8.8799	2.72e-3	0	46.3318	15.3911	0.1244
7	6.1922	2.04e-2	0	46.3318	15.3911	0.1244
8	6.0206	0.0227501	0	46.3318	15.3911	0.1244
9	5.8271	0.0134566	0	46.3318	15.3911	0.1244
10	5.5234	2.28e-2	0	46.3318	15.3911	0.1244
80	3.0807	3.47e-1	0	46.3318	15.3911	0.1244

**Escenario 3, Caso de Estudio 1:**

**- Espaciamiento de 25 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + \text{dF}$ (THz)
50	32.2833	1e-40	0	37.2273	12.3669	0.0082	0.0832
80	29.8419	1e-40	0	37.2273	12.3669	0.0083	0.0833
100	29.3449	1e-40	0	37.2273	12.3669	0.0080	0.083
150	30.0413	1e-40	0	37.2273	12.3669	0.0079	0.0829
200	26.0242	1e-40	0	37.2273	12.3669	0.0079	0.0829
250	24.8831	1e-40	0	37.2273	12.3669	0.0079	0.0829
300	23.0132	1e-40	0	37.2273	12.3669	0.0079	0.0829
350	22.8201	1e-40	0	37.2273	12.3669	0.0078	0.0828
400	18.2105	1.15e-15	0	37.2273	12.3669	0.0078	0.0828
450	18.1129	3.32e-16	0	37.2273	12.3669	0.0079	0.0829

**- Espaciamiento de 50 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	40	1e-40	0	29.7678	9.8901	0.0194	0.1694
80	40	1e-40	0	29.7678	9.8901	0.0105	0.1605
100	40	1e-40	0	29.7678	9.8901	0.0115	0.1615
150	37.0355	1e-40	0	29.7678	9.8901	0.0108	0.1608
200	29.6408	1e-40	0	29.7678	9.8901	0.0109	0.1609
250	31.8277	1e-40	0	29.7678	9.8901	0.0109	0.1609
300	23.6878	1e-40	0	29.7678	9.8901	0.0114	0.1614
350	24.0698	1e-40	0	29.7678	9.8901	0.0107	0.1607
400	18.2930	1.26e-15	0	29.7678	9.8901	0.0109	0.1609
450	20.2428	1e-24	0	29.7678	9.8901	0.0113	0.1613

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	38.4893	1e-40	0	26.9945	8.9702	0.0105	0.3105
80	37.3886	1e-40	0	26.9945	8.9702	0.0109	0.3109
100	40	1e-40	0	26.9945	8.9702	0.0107	0.3107
150	37.0288	1e-40	0	26.9945	8.9702	0.0105	0.3105
200	31.2877	1e-40	0	26.9945	8.9702	0.0108	0.3108
250	29.9059	1e-40	0	26.9945	8.9702	0.0096	0.3096
300	23.4449	1e-40	0	26.9945	8.9702	0.0103	0.3103
350	23.1414	1e-40	0	26.9945	8.9702	0.0109	0.3109
400	18.5155	8.5e-17	0	26.9945	8.9702	0.0105	0.3105
450	19.7796	1.42e-21	0	26.9945	8.9702	0.0106	0.3106

**Escenario 3, Caso de Estudio 2:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)
10	34.5537	1e-40	0	35.8132	11.8972	0.0112
20	28.5828	1e-40	0	35.8132	11.8972	0.0109
30	24.3521	1e-40	0	35.8132	11.8972	0.0108
40	19.3666	1.18e-20	0	35.8132	11.8972	0.0108
42	16.9942	1.3e-12	0	35.8132	11.8972	0.0108
50	9.7844	9.82e-3	0	35.8132	11.8972	0.0109
60	6.0689	2.37e-2	0	35.8132	11.8972	0.0108
70	6.0206	2.28e-2	0	35.8132	11.8972	0.0108
80	6.0206	2.28e-2	0	35.8132	11.8972	0.0107
90	6.0206	2.28e-2	0	35.8132	11.8972	0.0108
100	6.0206	2.28e-2	0	35.8132	11.8972	0.0108

**Escenario 4, Caso de Estudio 1:**

**- Espaciamiento de 25 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	21.6974	1e-40	0	30.2429	10.0478	0.0091	0.0841
80	23.2822	1e-40	0	30.2429	10.0478	0.0093	0.0843
100	24.5987	1e-40	0	30.2429	10.0478	0.0095	0.0845
150	25.3408	1e-40	0	30.2429	10.0478	0.0092	0.0842
200	21.1827	1.24e-28	0	30.2429	10.0478	0.0093	0.0843
250	21.5060	7.34e-32	0	30.2429	10.0478	0.0088	0.0838
300	19.7910	2.21e-22	0	30.2429	10.0478	0.0088	0.0838
350	17.1084	8.61e-13	0	30.2429	10.0478	0.0091	0.0841
400	17.9325	1.85e-14	0	30.2429	10.0478	0.0088	0.0838
450	18.2225	1.51e-16	0	30.2429	10.0478	0.0092	0.0842

**- Espaciamiento de 50 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	40	1e-40	0	22.4113	7.4531	0.0247	0.1747
80	38.1470	1e-40	0	22.4113	7.4531	0.0249	0.1749
100	40	1e-40	0	22.4113	7.4531	0.0247	0.1747
150	32.6816	1e-40	0	22.4113	7.4531	0.0248	0.1748
200	29.6998	1e-40	0	22.4113	7.4531	0.0248	0.1748
250	22.5843	1e-40	0	22.4113	7.4531	0.0248	0.1748
300	20.6005	5.68e-27	0	22.4113	7.4531	0.0246	0.1746
350	18.3679	3.42e-15	0	22.4113	7.4531	0.0248	0.1748
400	12.1148	7.85e-5	0	22.4113	7.4531	0.0249	0.1749
450	9.4367	1.51e-3	0	22.4113	7.4531	0.0247	0.1747

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
50	35.4193	1e-40	0	28.2806	9.3967	0.0514	0.3514
80	32.8725	1e-40	0	28.2806	9.3967	0.0514	0.3514
100	33.8833	1e-40	0	28.2806	9.3967	0.0474	0.3474
150	35.9049	1e-40	0	28.2806	9.3967	0.0514	0.3514
200	34.3016	1e-40	0	28.2806	9.3967	0.0514	0.3514
250	25.8457	1e-40	0	28.2806	9.3967	0.0413	0.3413
300	28.5938	1e-40	0	28.2806	9.3967	0.0475	0.3475
350	23.7832	1e-40	0	28.2806	9.3967	0.0425	0.3425
400	19.1504	1e-40	0	28.2806	9.3967	0.0434	0.3434
450	24.3834	1e-40	0	28.2806	9.3967	0.0411	0.3411

**Escenario 4, Caso de Estudio 2:**

**- Espaciamiento de 25 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
10	22.0593	1.25e-35	0	34.4417	11.4418	0.0212	0.0962
20	19.2639	2.11e-19	0	34.4417	11.4418	0.0215	0.0965
30	17.3602	2.42e-13	0	34.4417	11.4418	0.0219	0.0969
32	17.0537	1.63e-12	0	34.4417	11.4418	0.0219	0.0969
40	14.0229	2.40e-7	0	34.4417	11.4418	0.0215	0.0965
50	10.9478	2.12e-4	0	34.4417	11.4418	0.0215	0.0965
60	6.8280	1.53e-2	0	34.4417	11.4418	0.0217	0.0967
70	6.0206	2.28e-2	0	34.4417	11.4418	0.0217	0.0967
80	6.0206	2.28e-2	0	34.4417	11.4418	0.0217	0.0967
90	6.0206	0.0227501	0	34.4417	11.4418	0.0212	0.0962

**- Espaciamiento de 50 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
10	23.8221	1e-40	0	30.8936	10.2638	0.0329	0.1829
20	17.5760	5.52e-14	0	30.8936	10.2638	0.0324	0.1824
21	16.8575	6.20e-12	0	30.8936	10.2638	0.0336	0.1836
30	8.1056	5.53e-3	0	30.8936	10.2638	0.0314	0.1814
40	6.0206	2.28e-2	0	30.8936	10.2638	0.0311	0.1811
50	6.0206	3.54e-3	0	30.8936	10.2638	0.0316	0.1816
60	6.0206	2.20e-2	0	30.8936	10.2638	0.0314	0.1814
70	6.0206	2.28e-2	0	30.8936	10.2638	0.0317	0.1817
80	6.0206	0.0227501	0	30.8936	10.2638	0.0313	0.1813
90	6.0206	0.0227501	0	30.8936	10.2638	0.0319	0.1819
100	6.0206	0.0227501	0	30.8936	10.2638	0.0318	0.1818

**- Espaciamiento de 100 GHz:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)	BT = $\alpha \cdot \text{BCh} + dF$ (THz)
10	36.2790	1e-40	0	29.3896	9.7646	0.0327	0.3327
20	36.6250	1e-40	0	29.3896	9.7646	0.0326	0.3326
30	29.5473	1e-40	0	29.3896	9.7646	0.0324	0.3324
38.8	17.0468	1.95e-12	0	29.3896	9.7646	0.0329	0.3329
40	15.3899	4.28e-9	0	29.3896	9.7646	0.0319	0.3319
50	6.0206	2-28e-2	0	29.3896	9.7646	0.0317	0.3317
60	6.0206	2-28e-2	0	29.3896	9.7646	0.0317	0.3317
70	6.0206	2-28e-2	0	29.3896	9.7646	0.0322	0.3322
80	6.0206	2-28e-2	0	29.3896	9.7646	0.0317	0.3317
90	6.0206	2-28e-2	0	29.3896	9.7646	0.0319	0.3319
100	6.0206	2-28e-2	0	29.3896	9.7646	0.0318	0.3318

**Escenario 4, Caso de Estudio 3:**

Distancia (Km)	Factor Q (dB)	BER	PTx (dBm)	OSNR (dB)	$\alpha = \text{Log}_2(1+\text{OSNR})$	$\alpha \cdot \text{BCh}$ (THz)
1	19.7551	6.92e-22	0	31.9728	10.6220	0.1235
1.4	19.5139	8.21e-21	0	31.9728	10.6220	0.1227
1.8	19.0289	1.23e-18	0	31.9728	10.6220	0.1235
2.2	17.6609	1.11e-14	0	31.9728	10.6220	0.1235
2.6	16.8768	4.92e-12	0	31.9728	10.6220	0.1231
3	15.8433	3.62e-10	0	31.9728	10.6220	0.1231
3.4	14.8245	3.17e-8	0	31.9728	10.6220	0.1231
3.8	13.7227	6.09e-7	0	31.9728	10.6220	0.1231
4.2	12.8669	5.44e-6	0	31.9728	10.6220	0.1231
80	6.0206	2.28e-2	0	31.9728	10.6220	0.1231