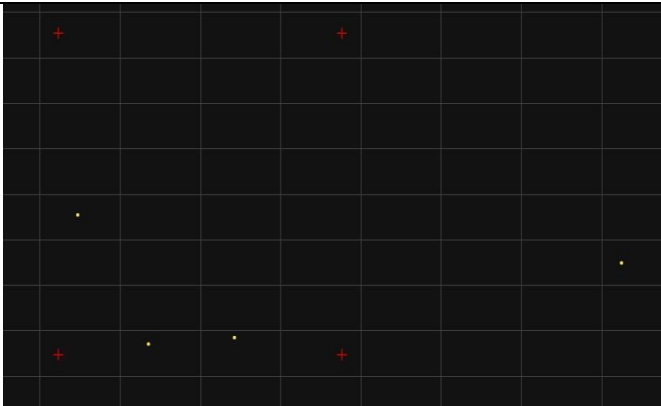
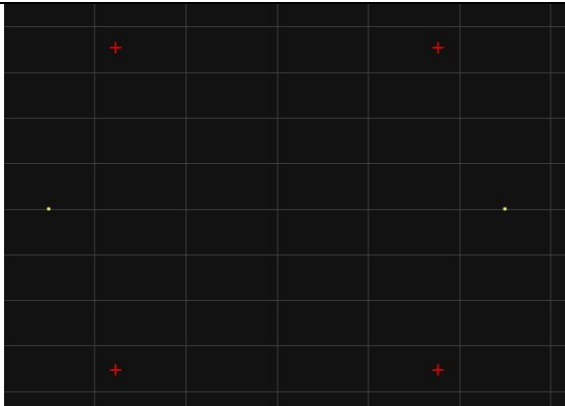
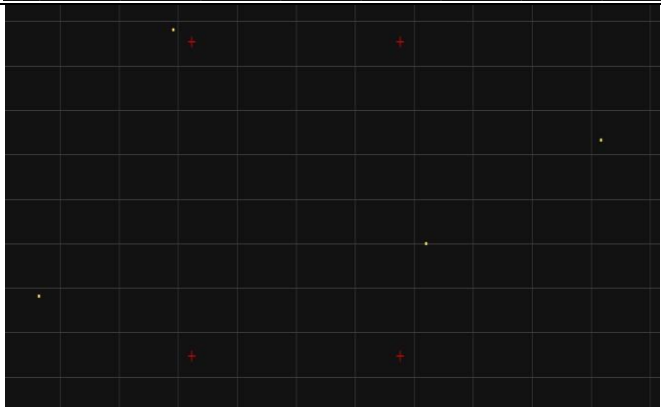
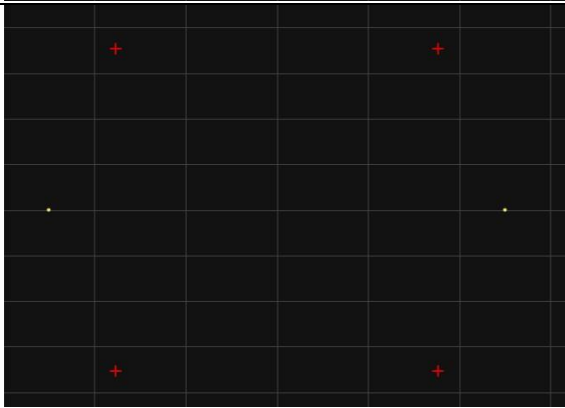
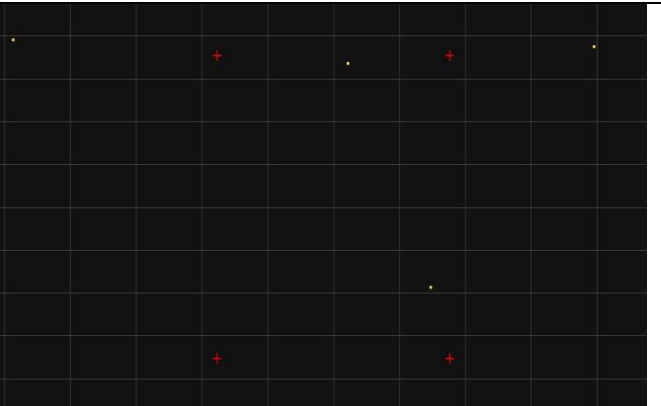
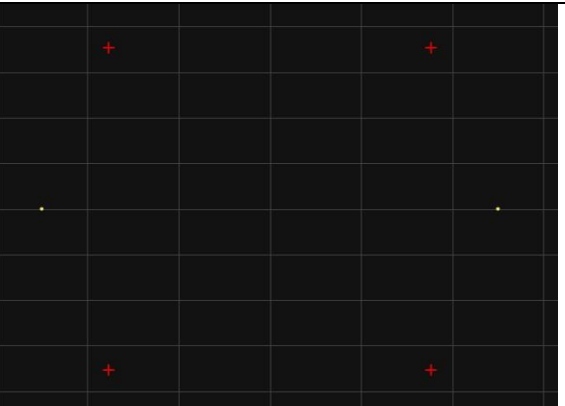
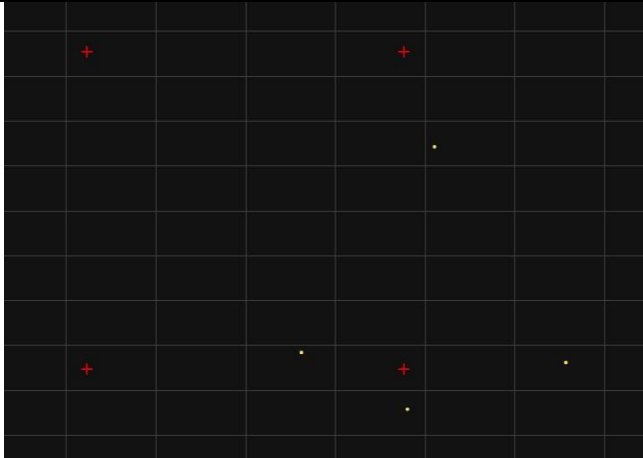
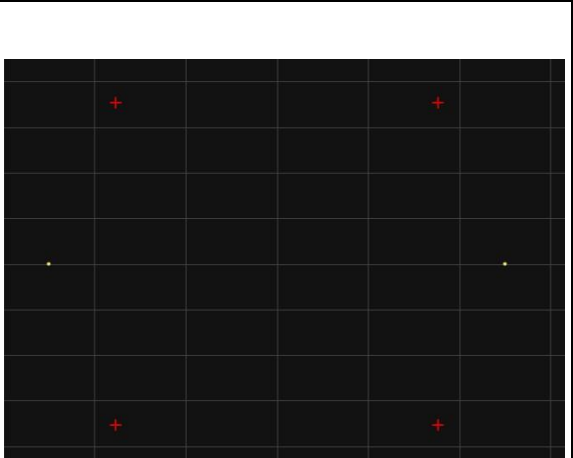
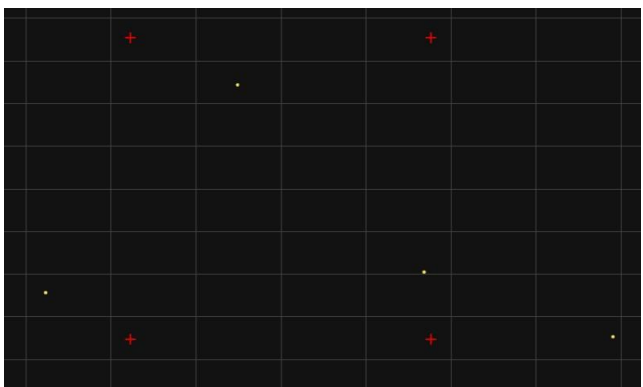
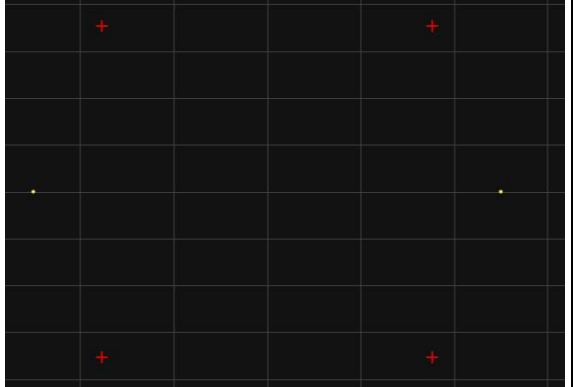
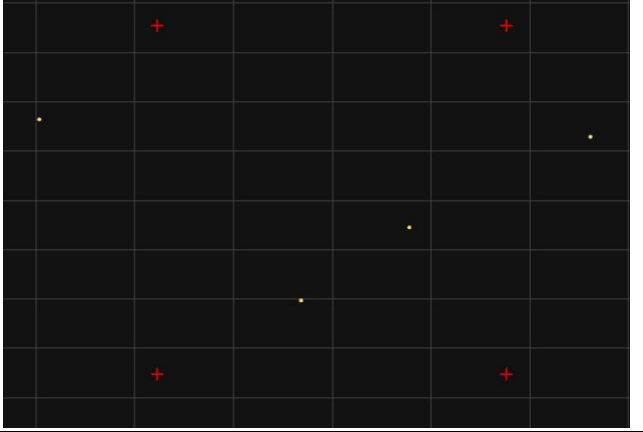
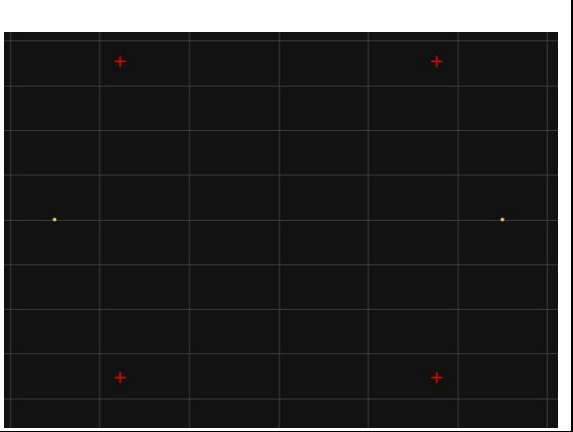
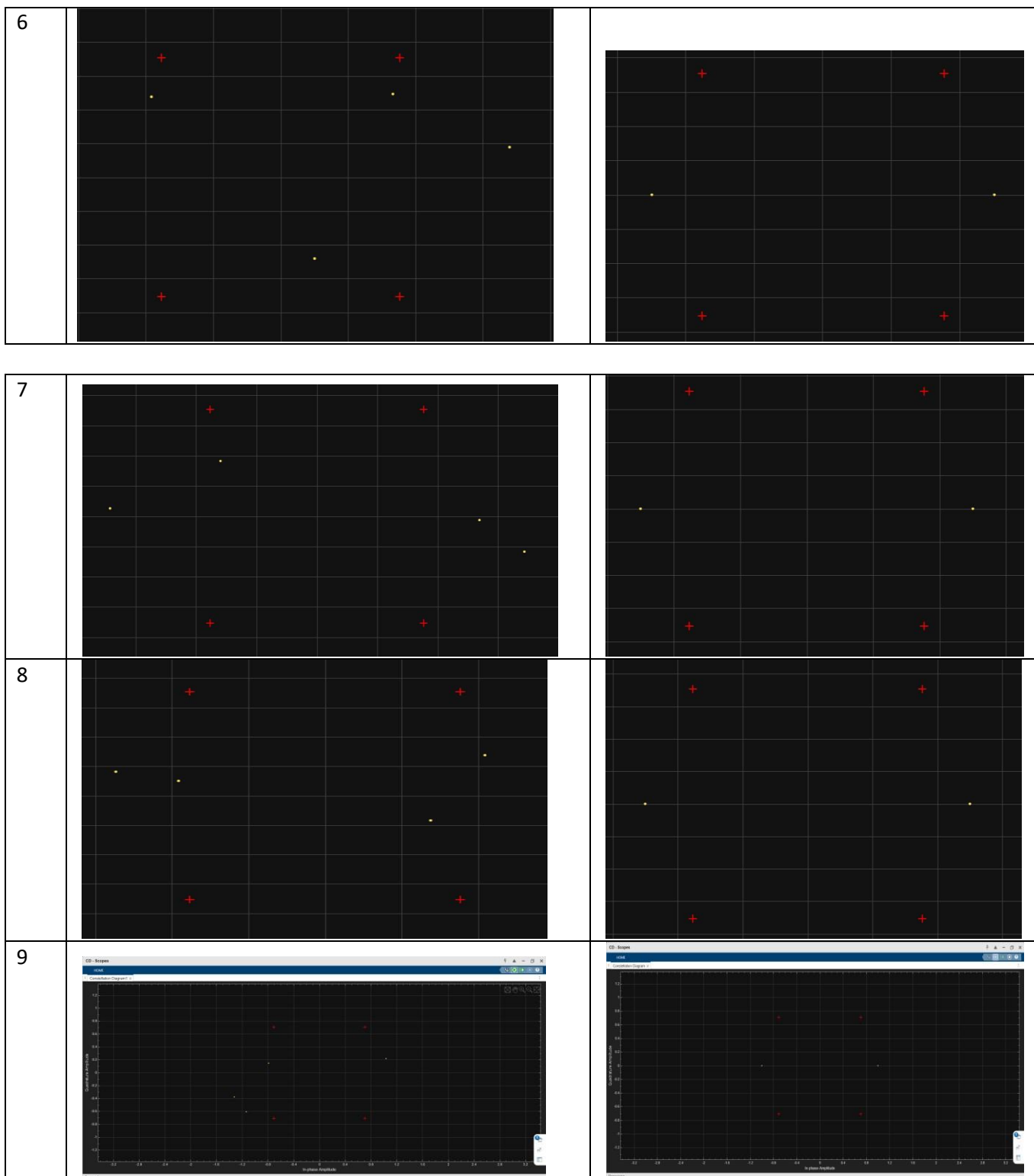


SNR (dB)	Constelación sin Codificación	Constelación Codificación Hamming
0		
1		
2		

3		
4		
5		



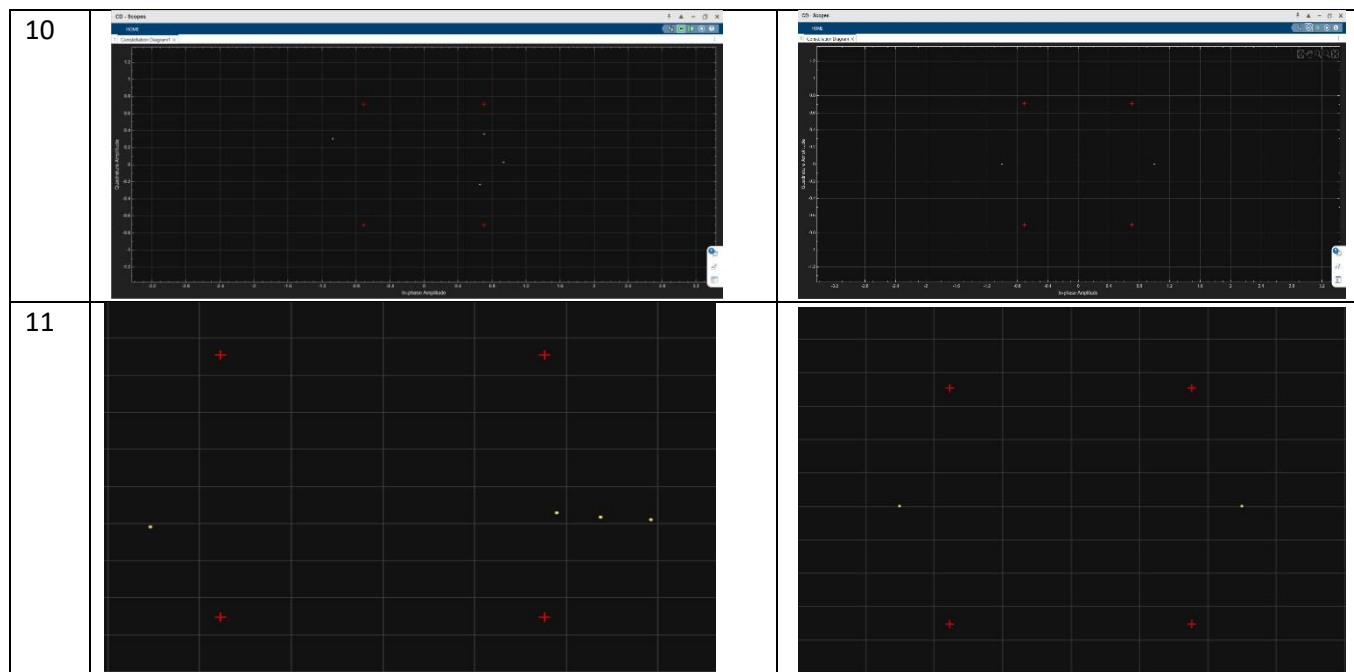
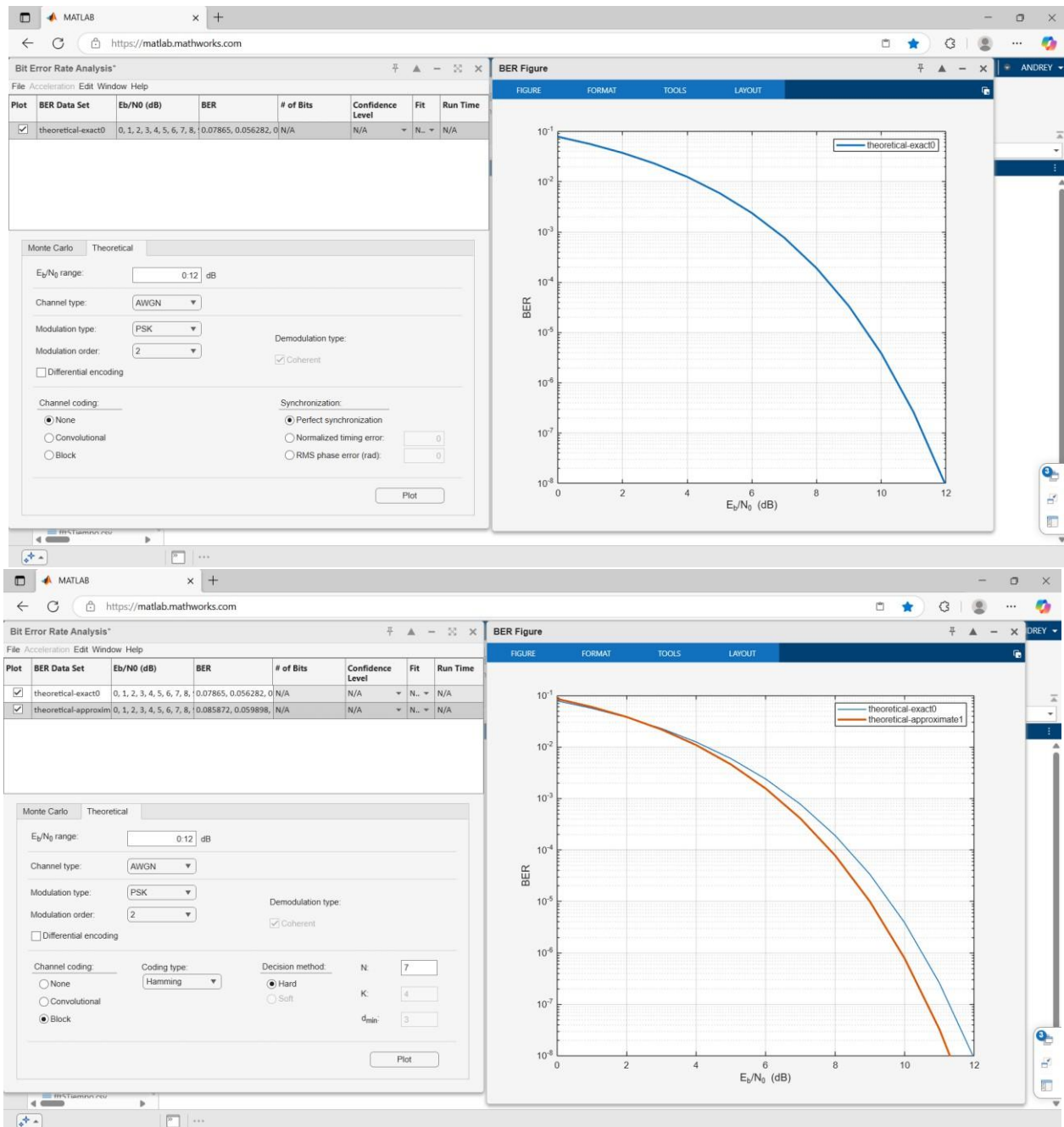


Tabla 1. Tabla resultados BPSK con y sin codificación

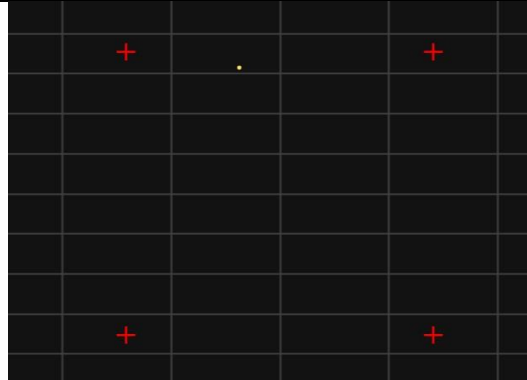
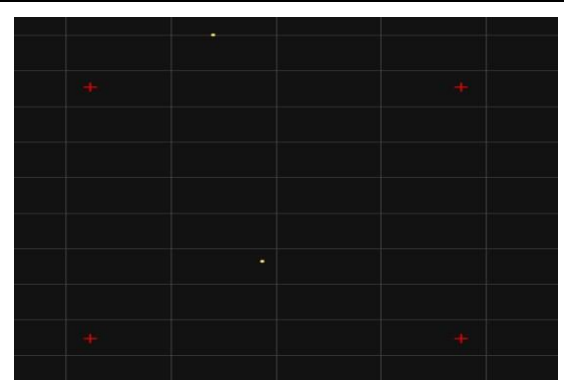
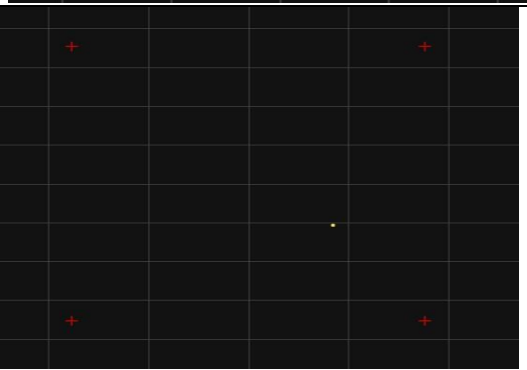
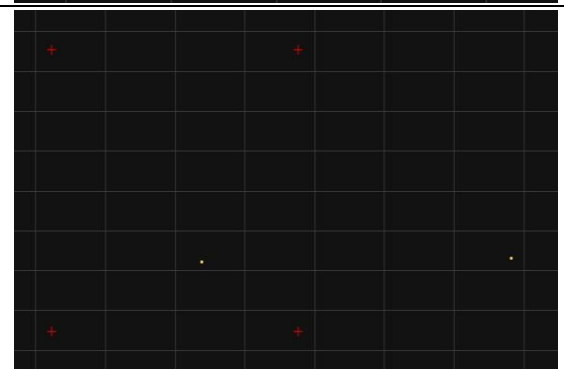
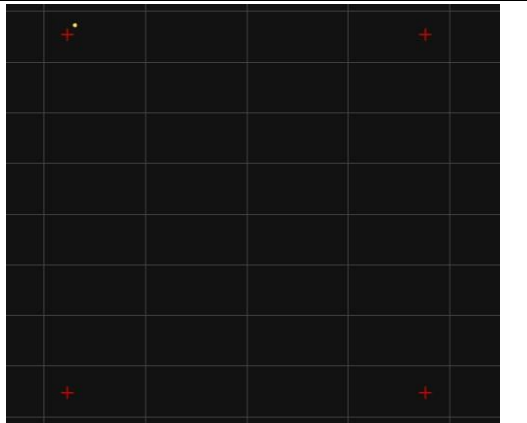
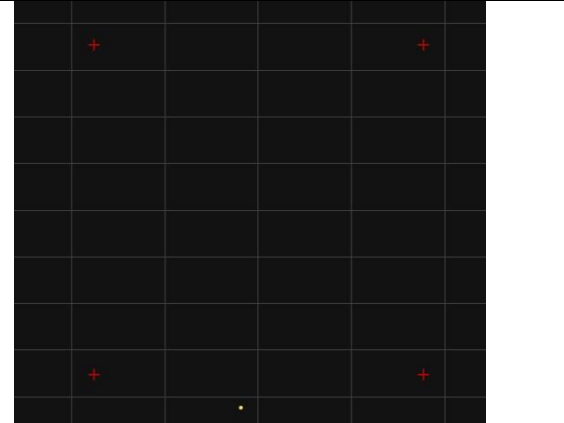
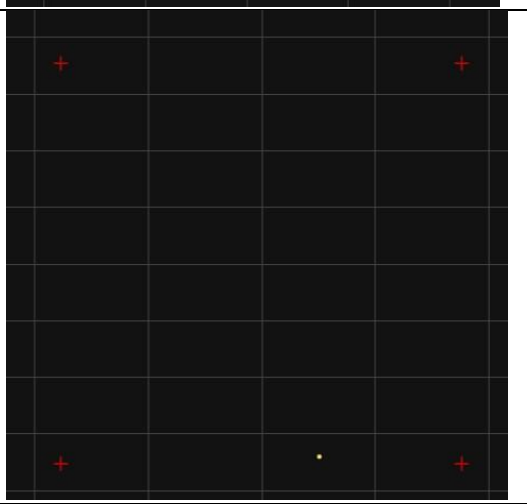
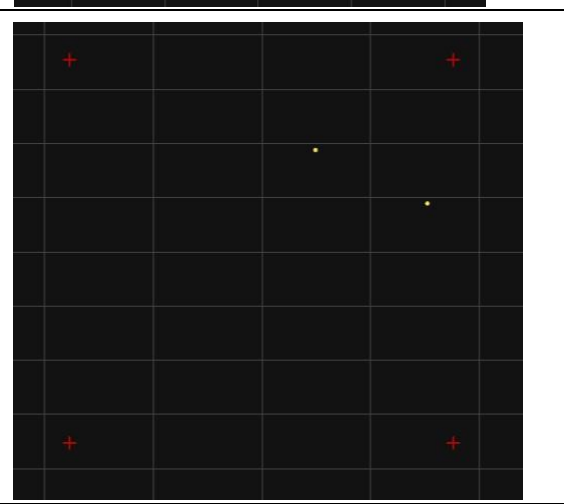
SNR (dB)	BPSK			BPSK – Hamming Encoder		
	BER	Errores	Símbolos	BER	Errores	Símbolos
0	0.08	100	1180	0	0.1	1.3
1	0.08	110	1615	0	0.02	1.7
2	0	100	2270	0	0.01	2.2
3	0	100	4600	0	0.001	4.1
4	0	100	8100	0	0.001	8.1
5	0	100	16680	0	0	16.6
6	0	10	48000	0	0	50
7	0	10	140000	0	0	140
8	0	0	480000	0	0	480000
9	0	0	1.000.000	0	0	1.000.000
10	0	0	1.000.000	0	0	1.000.000
11	0	0	1.000.000	0	0	1.000.000

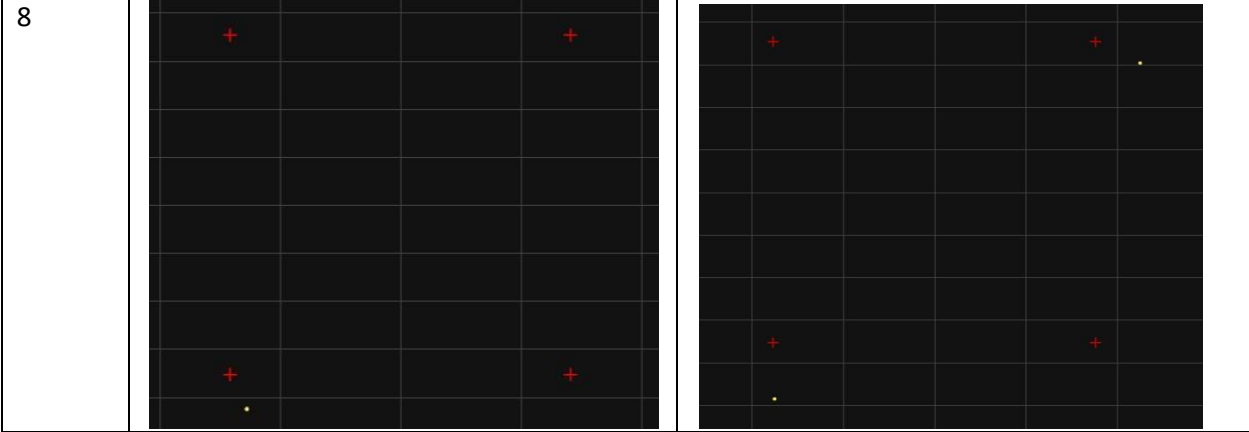
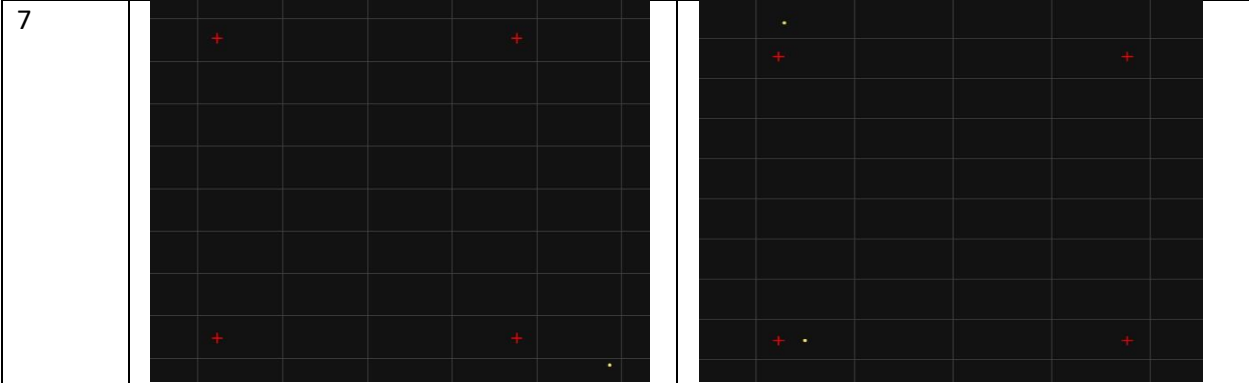
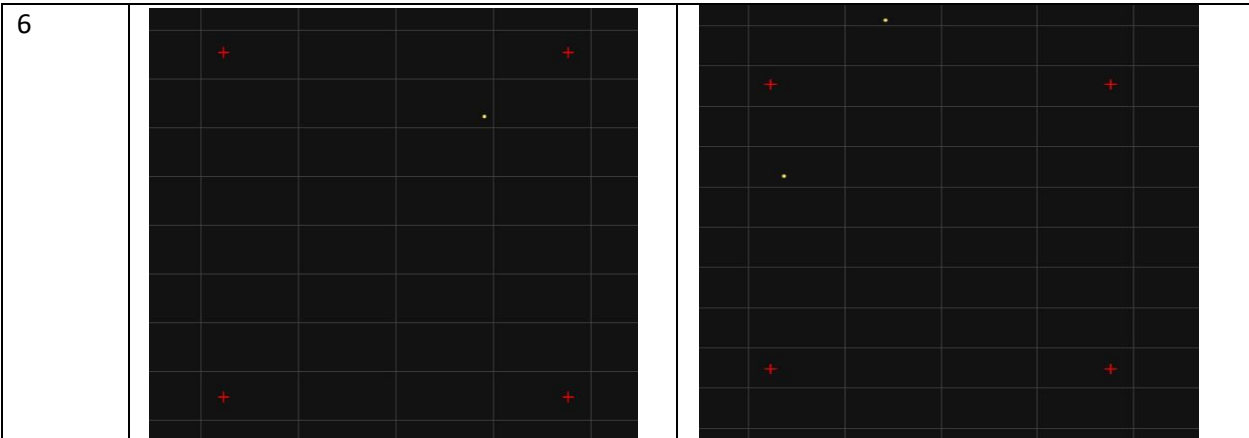
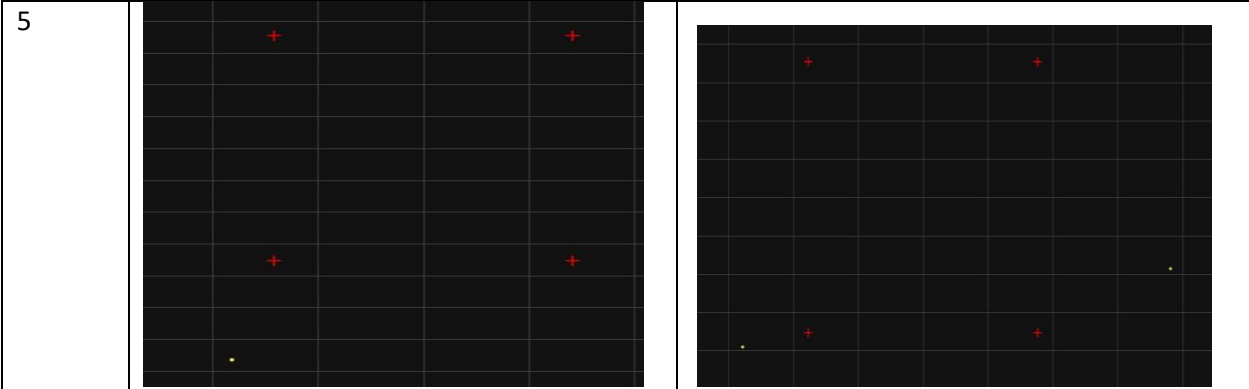
Bertool



#3

SNR(dB)	Constelación sin Codificación	Constelación Codificación Hamming
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1		
2		
3		
4		



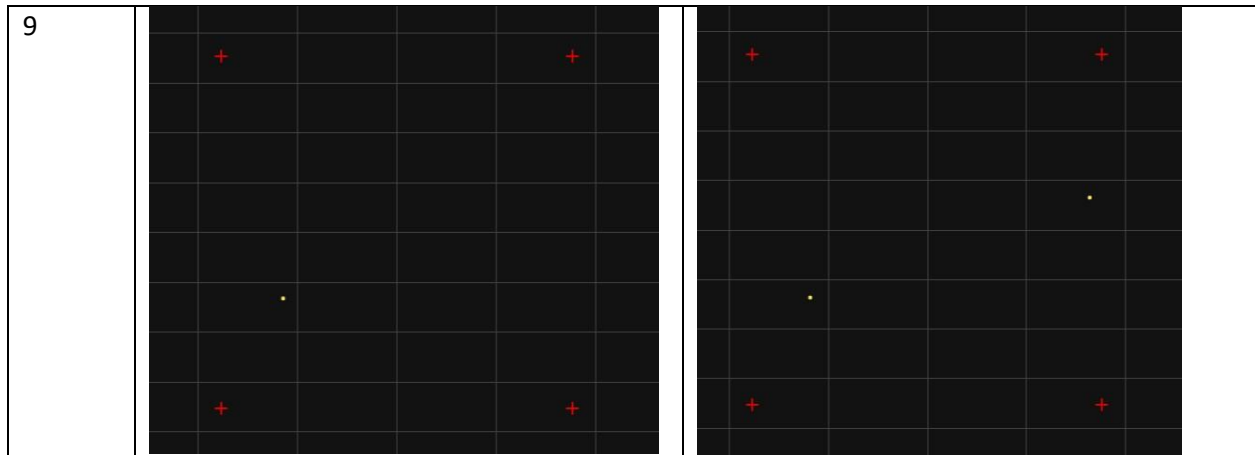


Tabla 3. Tabla resultados 16-QAM con y sin codificación (Incluir las imágenes)

Es/No (dB)	16-QAM			16-QAM – Convolutional Encoder		
	BER	Errores	Símbolos	BER	Errores	Símbolos
1	1	190	205	0.5	90	190
2	1	165	190	0.45	50	190
3	1	207	226	0.5	100	226
4	1	194	214	0.5	100	214
5	1	176	194	0.5	101	194
6	1	180	198	0.5	100	198
7	1	271	294	0.5	100	294
8	1	825	878	0.1	103	878
9	1	5536	5866	0	102	5866

