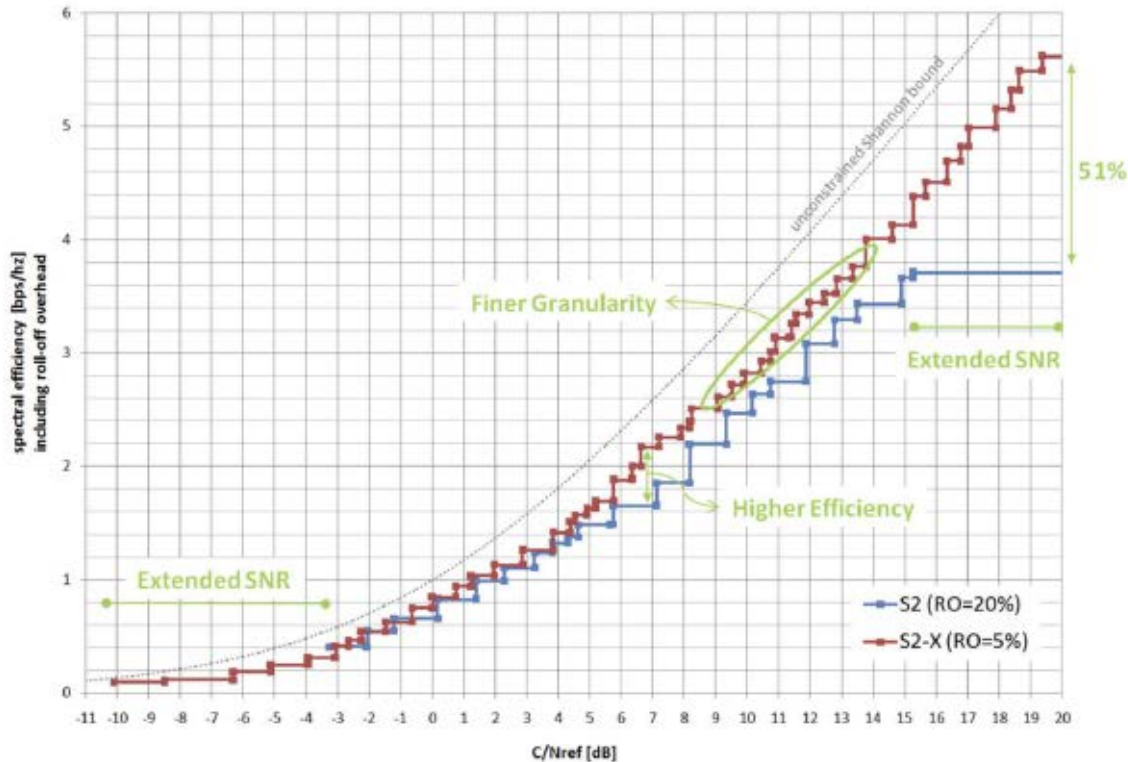




DVB-S2/S2X



The ModCod Performance as Defined by DVB-S2 Standard [4]

Mode		Spectral efficiency	Ideal Es/No (dB) for FECFRAME length = 64 800
QPSK	1/4	0,490243	-2,35
QPSK	1/3	0,656448	-1,24
QPSK	2/5	0,789412	-0,30
QPSK	1/2	0,988858	1,00
QPSK	3/5	1,188304	2,23
QPSK	2/3	1,322253	3,10
QPSK	3/4	1,487473	4,03
QPSK	4/5	1,587196	4,68
QPSK	5/6	1,654663	5,18
QPSK	8/9	1,766451	6,20
QPSK	9/10	1,788612	6,42
8PSK	3/5	1,779991	5,50
8PSK	2/3	1,980636	6,62
8PSK	3/4	2,228124	7,91
8PSK	5/6	2,478562	9,35
8PSK	8/9	2,646012	10,69
8PSK	9/10	2,679207	10,98
16APSK	2/3	2,637201	8,97
16APSK	3/4	2,966728	10,21
16APSK	4/5	3,165623	11,03
16APSK	5/6	3,300184	11,61
16APSK	8/9	3,523143	12,89
16APSK	9/10	3,567342	13,13
32APSK	3/4	3,703295	12,73
32APSK	4/5	3,951571	13,64
32APSK	5/6	4,119540	14,28
32APSK	8/9	4,397854	15,69
32APSK	9/10	4,453027	16,05

Note: Given the system spectral efficiency η_{tot} the ratio between the energy per information bit and single sided noise power spectral density $E_b/N_0 = E_s/N_0 - 10 \cdot \log(\eta_{tot})$.