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4. a. $BW = 7 \text{ MHz}$

$f_c = -1,25 \text{ MHz}$

$7 - 1,25 = 5,75 \text{ MHz}$

$5,5 - (5,75 - 5,5) = 5,25 \text{ MHz}$

$BW_y = 5,25 - (-1,25) = 6,5 \text{ MHz}$

b. $BW_u = 1,3 \text{ MHz}$

$BW_v = 1,3 \text{ MHz}$

c. $502 \text{ MHz} = f_L$

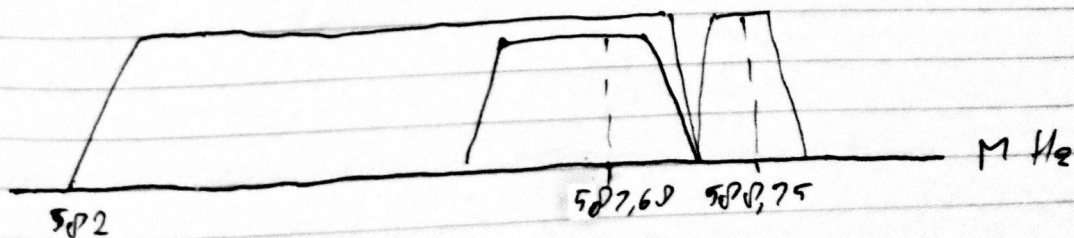
$f_{cp} = f_L + 1,25 = 502 + 1,25 = 503,25 \text{ MHz}$

$f_{cc} = f_L + (4,43 + 1,25) = 502 + 4,43 + 1,25$
 $= 507,68 \text{ MHz}$

$f_{cs} = f_L + (5,5 + 1,25) = 502 + 5,5 + 1,25$
 $= 508,75 \text{ MHz}$

d. $BW = 2 (B_f + f_{cs})$
 $= 2 (45 \text{ kHz} + 508,75 \text{ MHz})$
 $= 1,10 \text{ GHz}$

e.



~~8. 70~~~~8. 720 x 560~~

5. 720 x 576 pixel/frame

25 fps

3 byte/pixel

8 bit/byte

$$BR = 720 \times 576 \times 25 \times 3 \times 8$$

$$= 240,000 \text{ bps}$$

$$= 240,0 \text{ Mbps}$$