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Question 1 soln

a. Yes, marker m1 is pointing to the right frequncy.

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Proof; left IM3 is given by 2f1-f2, f1 = 1.945GHz and f2 = 2.11 GHz IM3 = 2(1.945) - 2.11 = 1.78 GHz
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b. Resolution bandwith (RBW), It can be lowered to reduce noise by averaging out more of it over narrow bandwith.

f1 has power of 43.237 dbm and IM3 has -22.301 the dBc is the difference of this values

which is lower than -153dBc confirming compliance