Investigating EMF and Internal resistance 1.5 ∨ Cell To provide an e.m.f. to the circuit The aim of the practical into calculate the internal restribute along with the tape along with these correlation Resistor Unknown resistance — to act as internal resistance To change the values of current and voltage in the circuit 100Ω Variable Resistor Variables: $0-2\ V$ range - to measure voltage Voltmeter Ammeter 0-200 mA range - to measure current Independent = Resistance, R (2) Wires At least 6 leads - to make electrical connections Dependent = Vollage (v), voltactor; current I(A), numeter Switch To open between readings to not run down the battery Control = Emg, internal resistance Method reading | reading 2 reading ? mean 1) set up apperatur as shown in diagram 1.54 474 1.56 477 3 50 80 1.57 1.57 2) with children open record V 1.545 46 1.57 157 1.67 I set resistor to maximum, close switch and record board h — open smitch between readings 1.54 45 1.58 1.51 1.58 ed vary the resistance and repeat experiment. 1.510 41 1.51 1,56 1.58 Sayety: 15 430 1.59 159 159 . in get electricated - so two g circuit you way reading · Recitor can head up - so may need band another in series E=1(R+r) V=-rl+E EMF = (1.1 × 0.0 h 2h) + 1.5h gradient = -r × Uncertainty = value × 100 e contagg to the Colorlated multiple makings a 1/2 regge x 100 so 8 % of which is within the accepted range next time I do this experiment I will do it with equipment the is more precise and a power board instead graduating to I can bou some EMF su repeather results and so others can do it and just during the experiment I used a great battery thus a so it does it me out g power during the experiment. additionally, Some result I will be able to test my results with the Voltage shown as the butteries.