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| # | Formula | Phase match(es) | Comments |
| 1 | Zn2Co(VO4)2 | Zn3(VO4)2 | This sample is a pure solid solution of intended product. |
| 2 | Zn1.5Co1.5(VO4)2 | Zn3(VO4)2 | This sample is a pure solid solution of intended product. |
| 3 | ZnCo2(VO4)2 | Zn3(VO4)2 | This sample is a pure solid solution of intended product. |
| 4 | Zn0.8Ni0.2MoO4 | NiMoO4 with Ni1-xZnxO impurity | Likely a mix of the intended product plus some NiO (with perhaps some Zn substituted in). |
| 5 | Zn0.5Ni0.5MoO4 | NiMoO4 with Ni1-xZnxO impurity | Likely a mix of the intended product plus some NiO (with perhaps some Zn substituted in). |
| 6 | Zn0.2Ni0.8MoO4 | NiMoO4 with Ni1-xZnxO impurity | Likely a mix of the intended product plus some NiO (with perhaps some Zn substituted in). |
| 7 | Zn0.8Co0.2MoO4 | ZnMoO4 | This sample is a pure solid solution of intended product. |
| 8 | Zn0.5Co0.5MoO4 | CoMoO4 + unidentified impurity (MoO2 or NiO?) | Likely a mix of the intended product plus some NiO or MoO2 |
| 9 | Zn0.2Co0.8MoO4 | CoMoO4 + unidentified impurity (MoO2 or NiO?) | Likely a mix of the intended product plus some NiO or MoO2 |
| 10 | Co0.8Ni0.2MoO4 | CoMoO4 | This sample is a pure solid solution of intended product. |
| 11 | Co0.5Ni0.5MoO4 | CoMoO4 | This sample is a pure solid solution of intended product. |
| 12 | Co0.2Ni0.8MoO4 | CoMoO4 + unidentified impurity (MoO2 ?) | Likely a mix of the intended product plus some MoO2 |
| 13 | Zn0.8Co0.2WO4 | ZnWO4 | This sample is a pure solid solution of intended product. |
| 14 | Zn0.5Co0.5WO4 | ZnWO4 | This sample is a pure solid solution of intended product. |
| 15 | Zn0.2Co0.8WO4 | ZnWO4 | This sample is a pure solid solution of intended product. |
| 16 | Co0.8Ni0.2WO4 | ZnWO4 | This sample is a pure solid solution of intended product. |
| 17 | Co0.5Ni0.5WO4 | ZnWO4 with some WO3 impurtiy | Likely a mix of the intended product plus some WO3 |
| 18 | Co0.2Ni0.8WO4 | ZnWO4 | This sample is a pure solid solution of intended product. |

