**Table. VI:** Raman and Infrared shift (in cm-1) for the observed modes in Sr2Mn0.75Ni0.25TeO6, Sr2Mn0.5Ni0.5TeO6 and Sr2Mn0.25Ni0.75TeO6

|  |  |  |  |
| --- | --- | --- | --- |
| ʋ **(Sr2Mn0.75Ni0.25TeO6)** | ʋ **(Sr2Mn0.50Ni0.50TeO6)** | ʋ **(Sr2Mn0.25Ni0.75TeO6)** | Assignment |
| **Raman** | | | |
| 136 | very weak | very weak | T |
| 410 | 411 | 413 | ʋ5 |
| 550 | 551 | 553 | ʋ2 |
| 748 | 749 | 752 | ʋ1 |
| **Infrared** | | | |
| 695 | 699 | 710 | ʋ1 |