## KMEAN from SL PCA coeff : group 0/30 : 14 elements

Legend: 204, 326, 341, 377, 406, 419, 423, 551, 613, 626, 677, 678, 702, 703

$\lambda(\text{Å})$

## KMEAN from SL PCA coeff : group 1/30 : 43 elements

Legend: 58, 118, 141, 149, 179, 181, 188, 189, 193, 198, 231, 235, 271, 282, 287, 296, 387, 412, 439, 443, 446, 453, 456, 463, 477, 488, 492, 497, 500, 533, 539, 550, 562, 570, 601, 661, 670, 674, 682, 690, 695, 700, 735

$\lambda(\text{Å})$

## KMEAN from SL PCA coeff : group 2/30 : 8 elements

Legend: 107, 396, 424, 434, 471, 546, 618, 732

$\lambda(\text{Å})$

## KMEAN from SL PCA coeff : group 3/30 : 13 elements

Legend: 19, 70, 178, 252, 361, 364, 383, 394, 426, 427, 479, 638, 658

$\lambda(\text{Å})$

## KMEAN from SL PCA coeff : group 4/30 : 22 elements

Legend: 68, 253, 298, 385, 444, 448, 461, 465, 468, 472, 480, 482, 499, 541, 548, 568, 609, 647, 654, 657, 686, 699

$\lambda(\text{Å})$

KMEAN from SL PCA coeff : group 5/30 : 9 elements
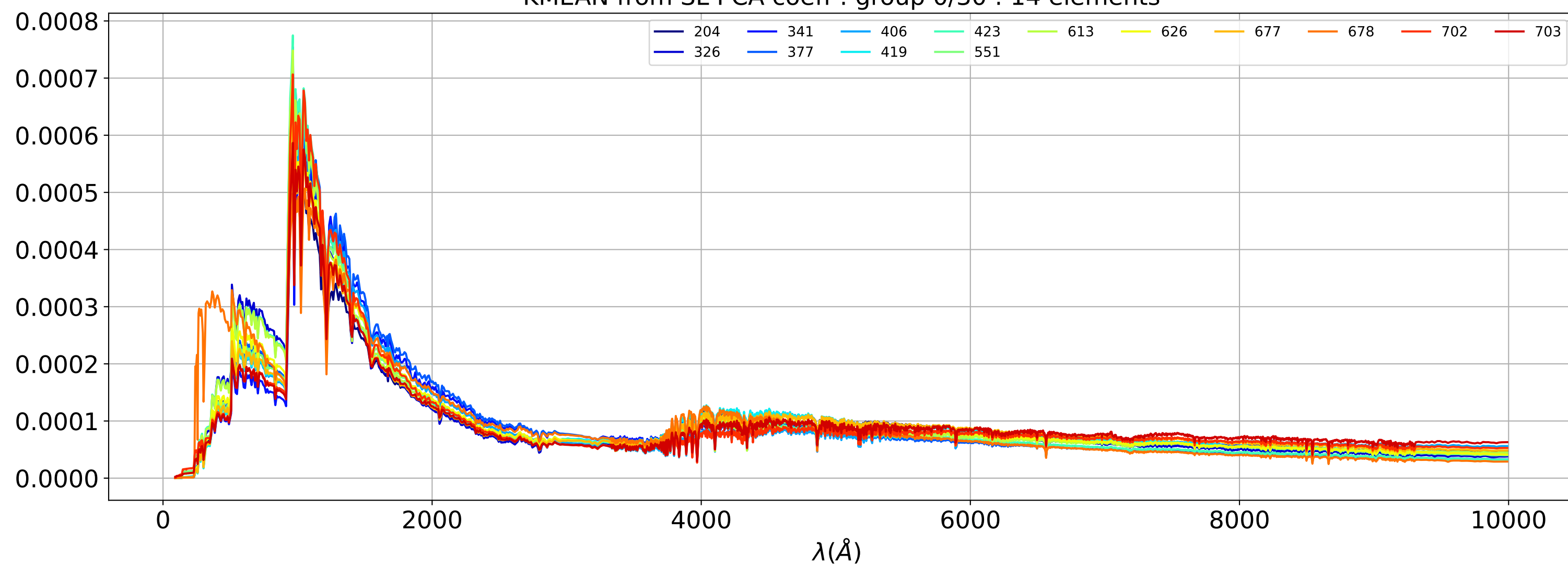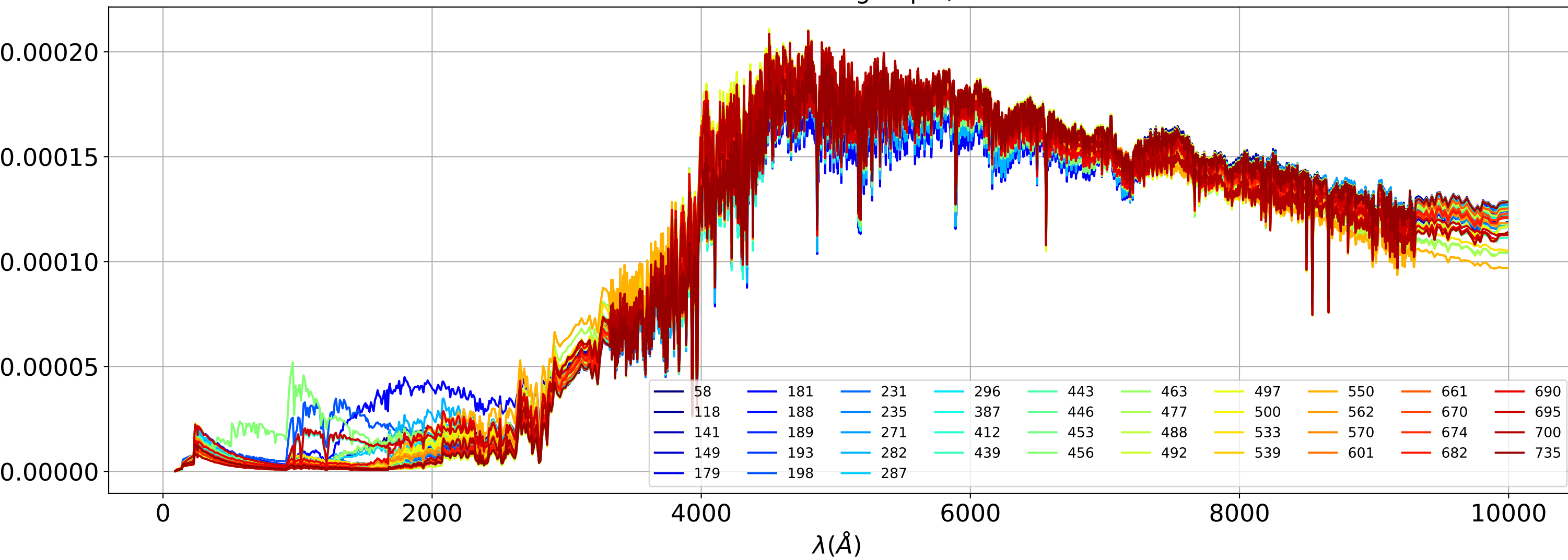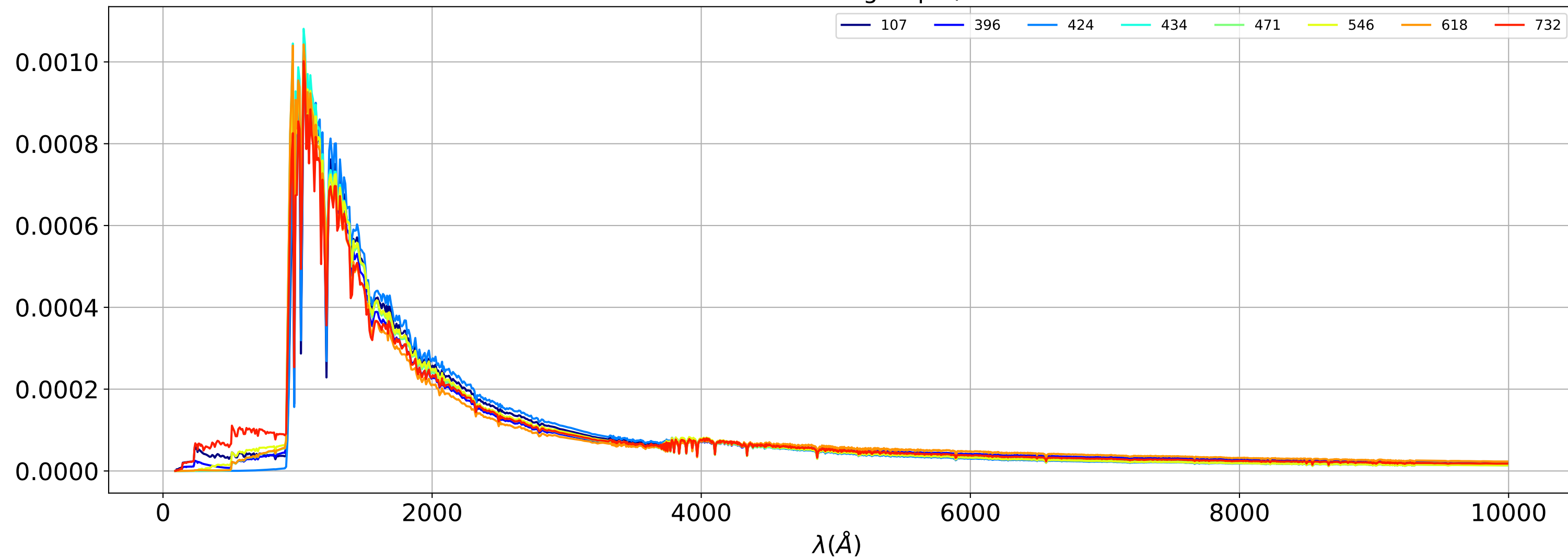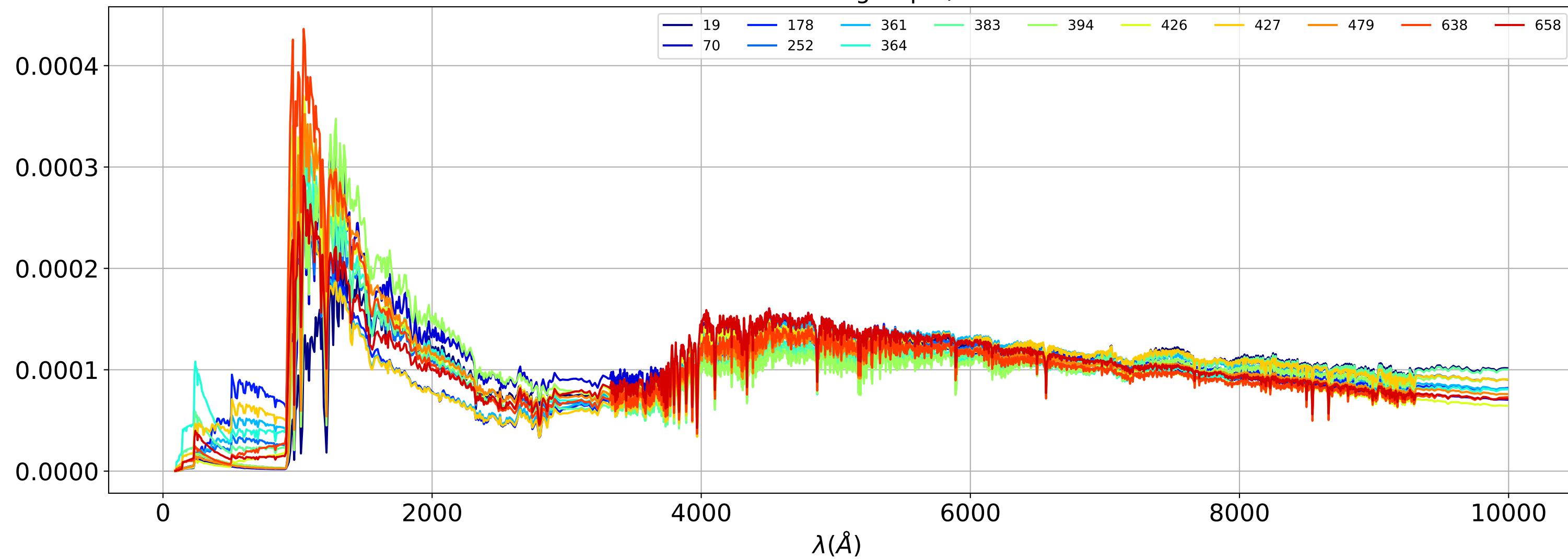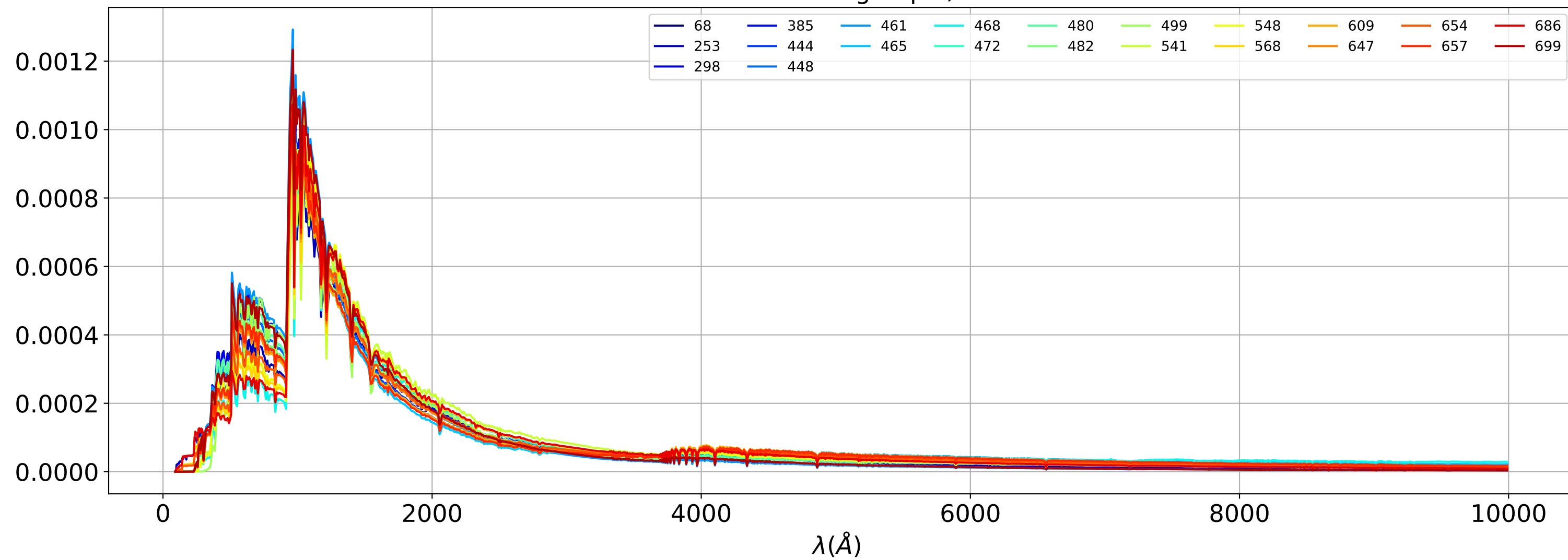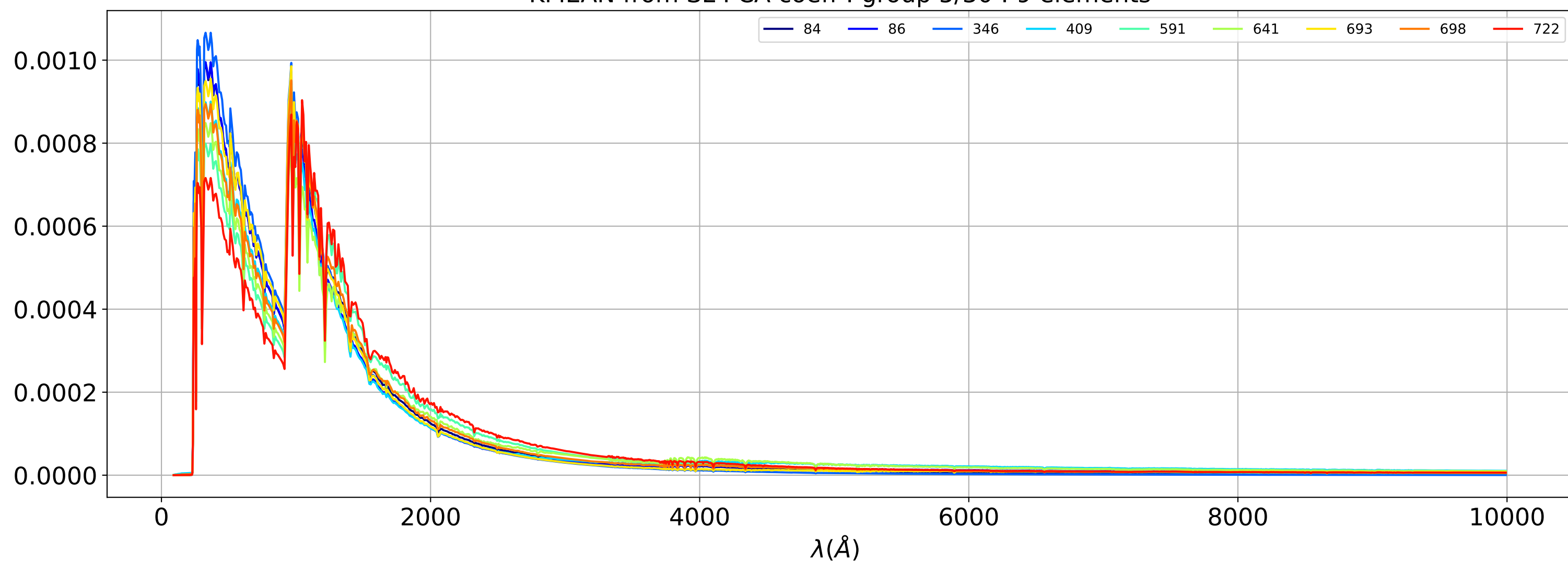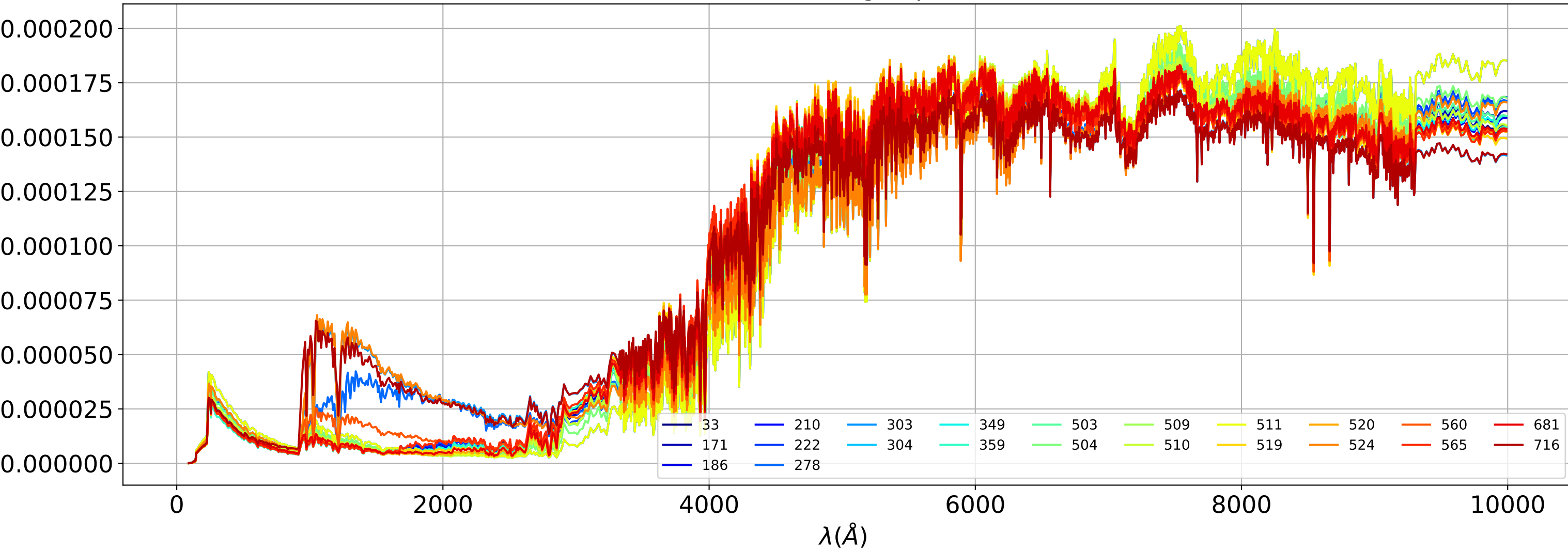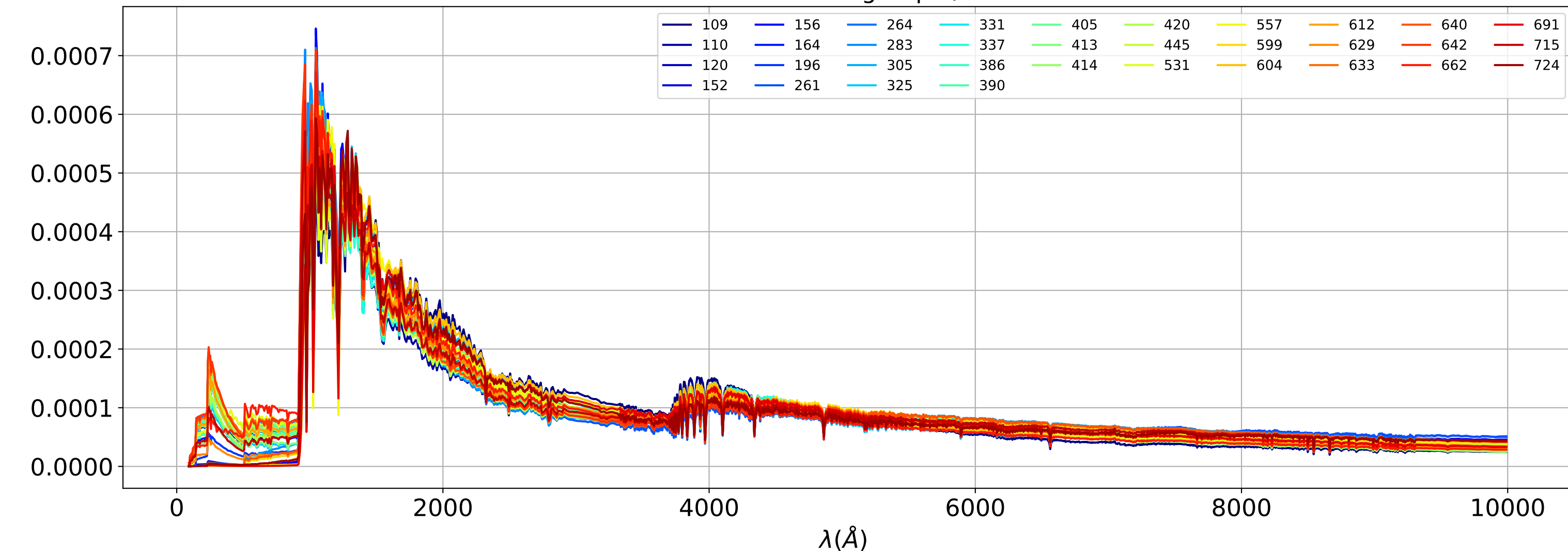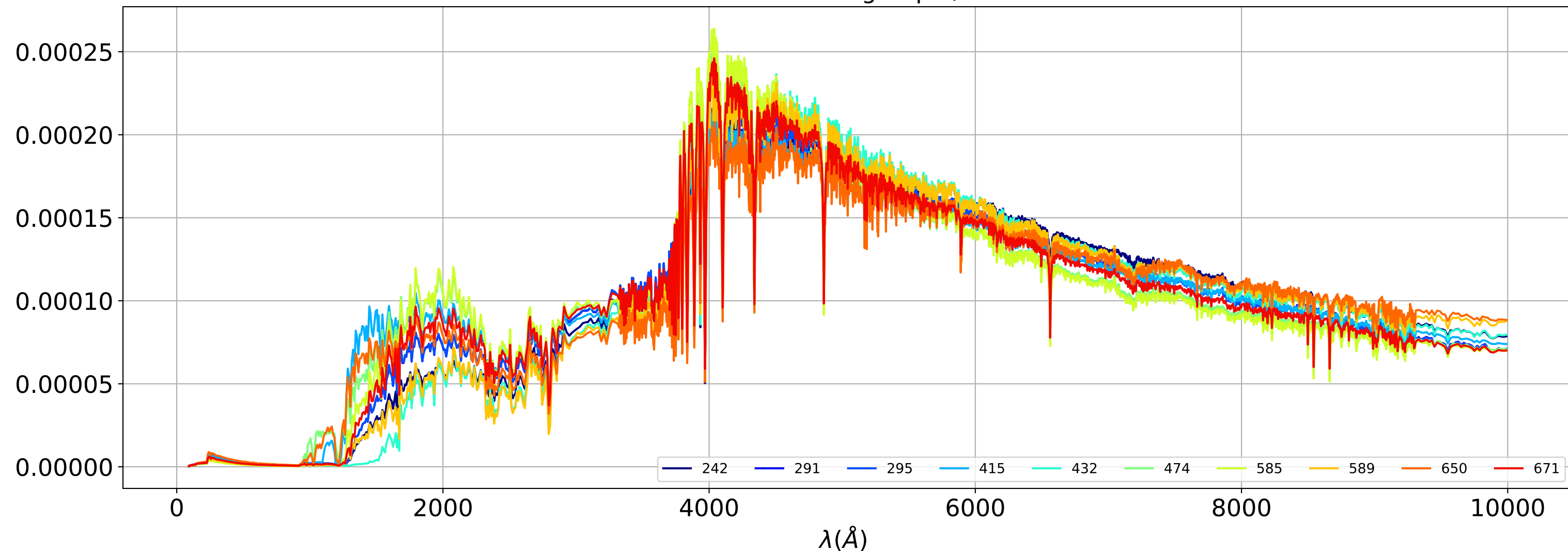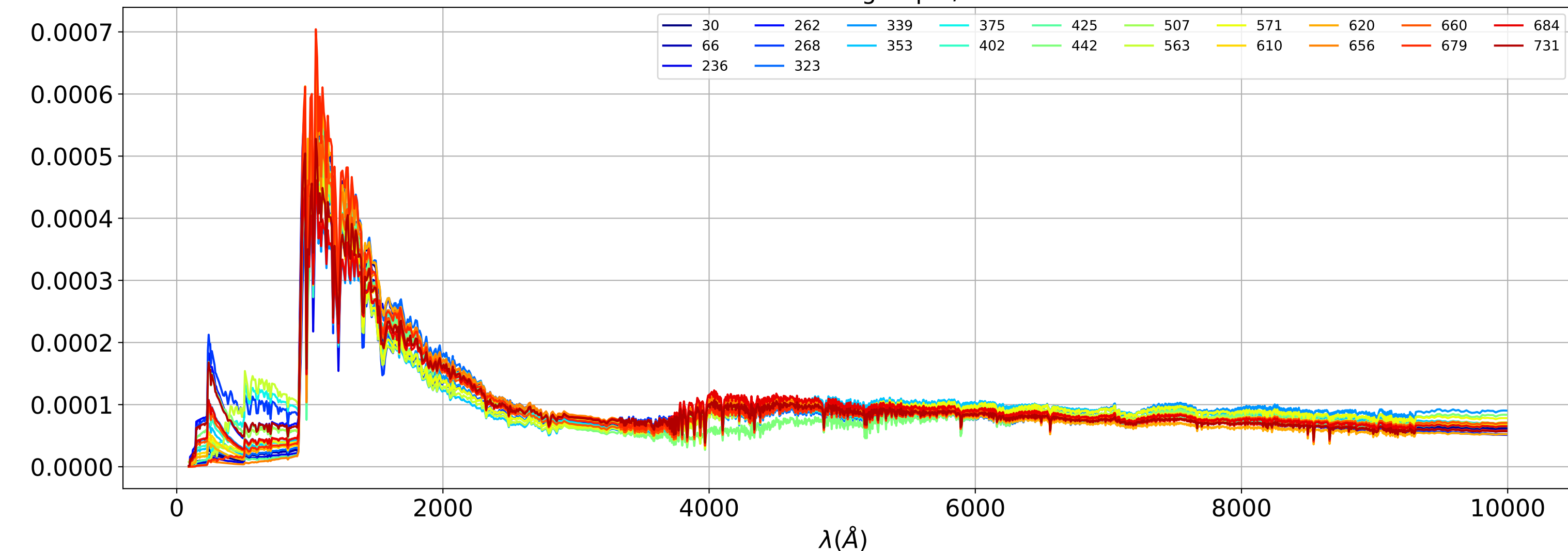
KMEAN from SL PCA coeff : group 6/30 : 22 elements

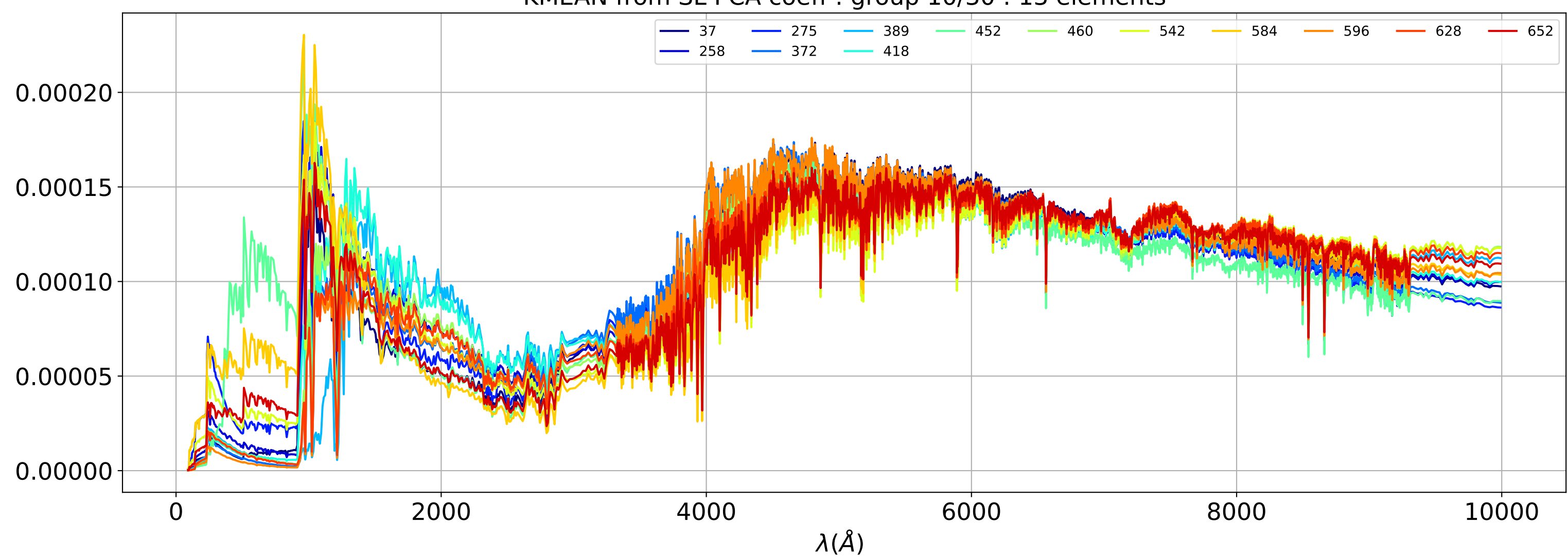KMEAN from SL PCA coeff : group 7/30 : 34 elements

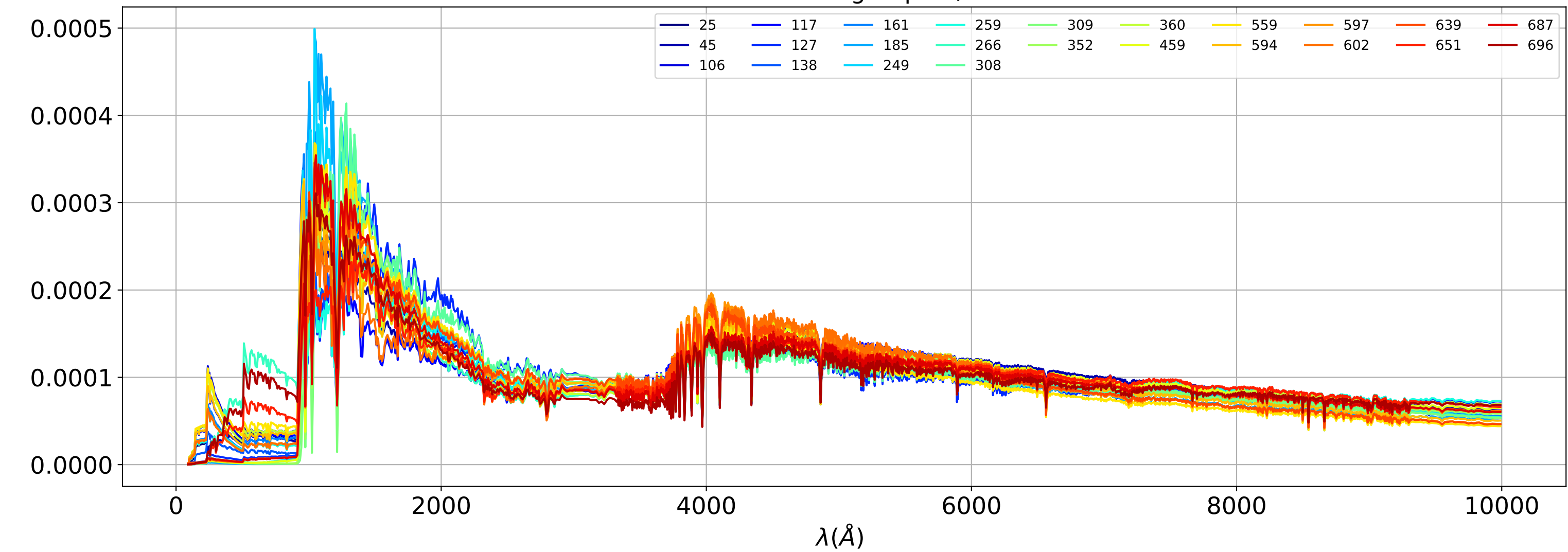KMEAN from SL PCA coeff : group 8/30 : 10 elements
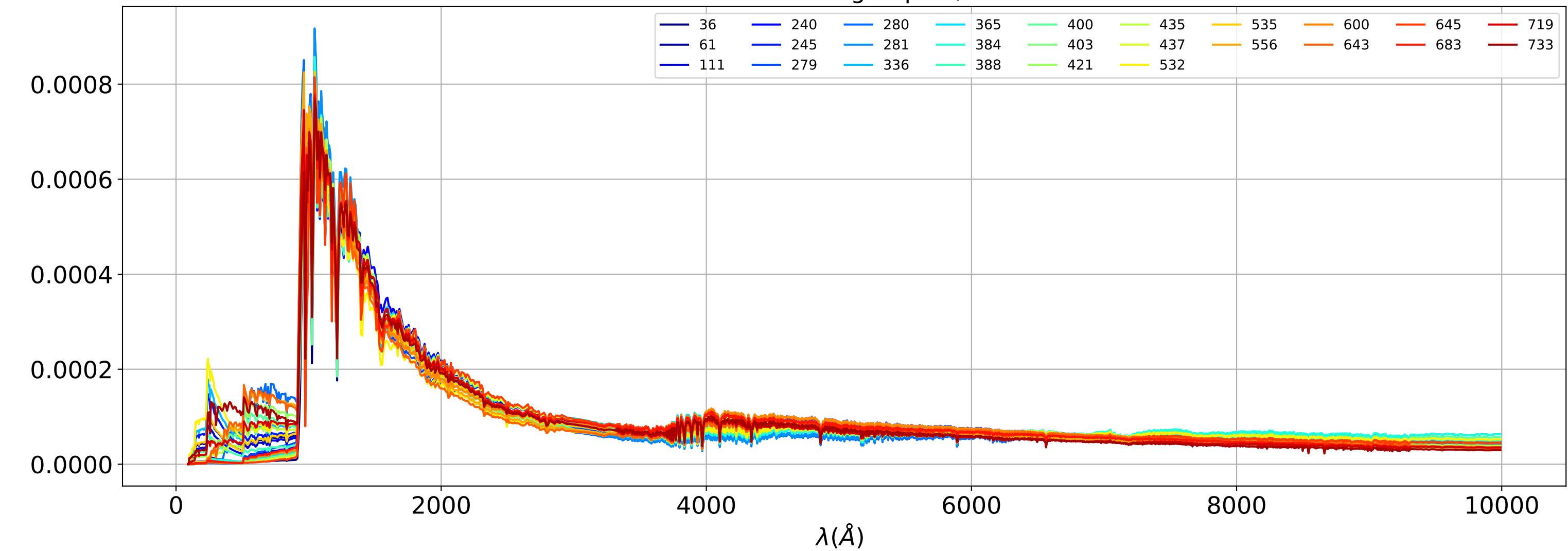
KMEAN from SL PCA coeff : group 9/30 : 22 elements

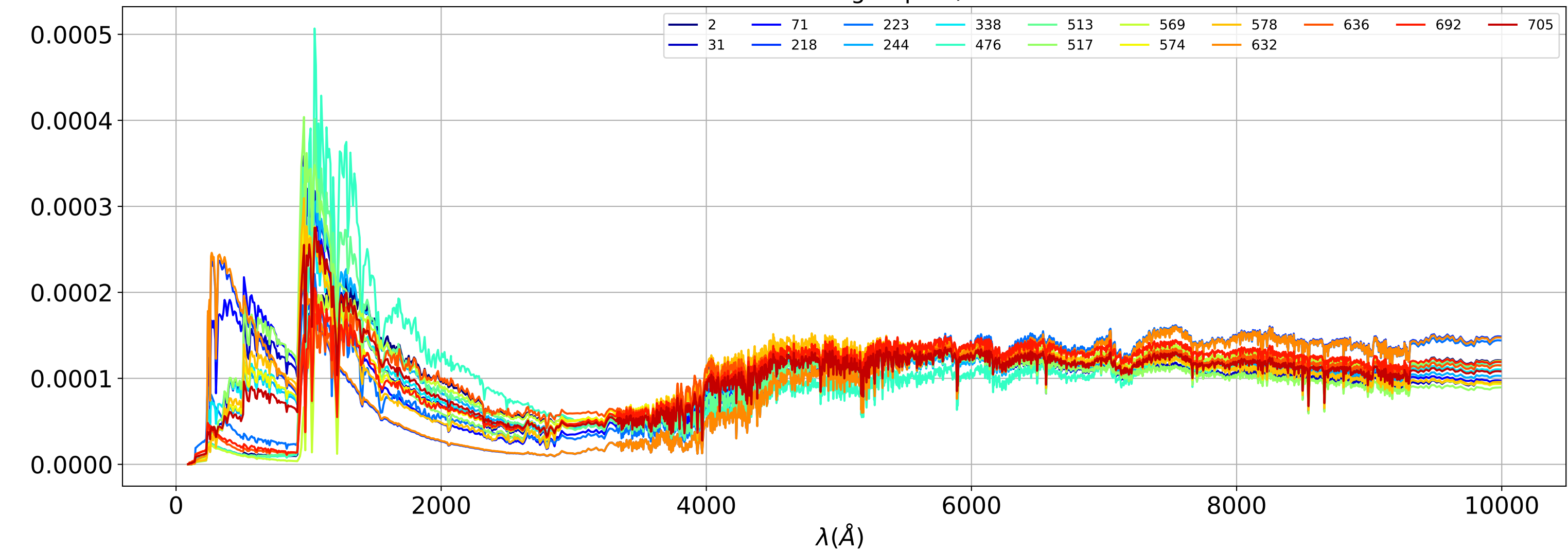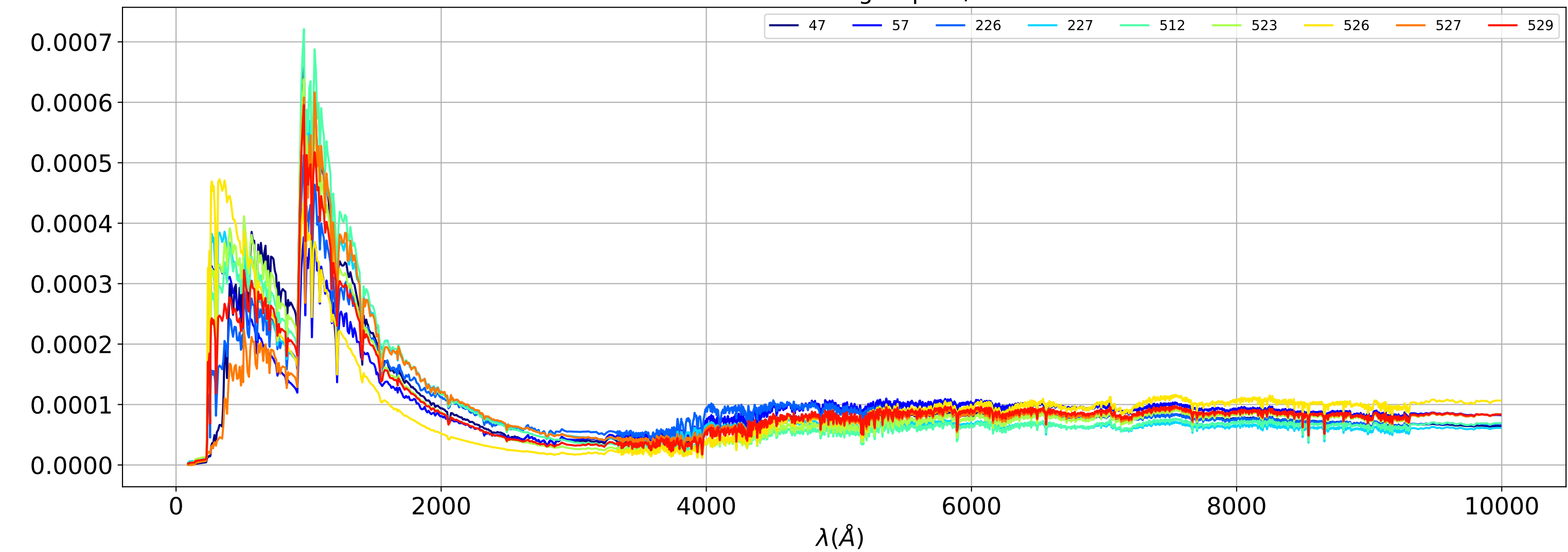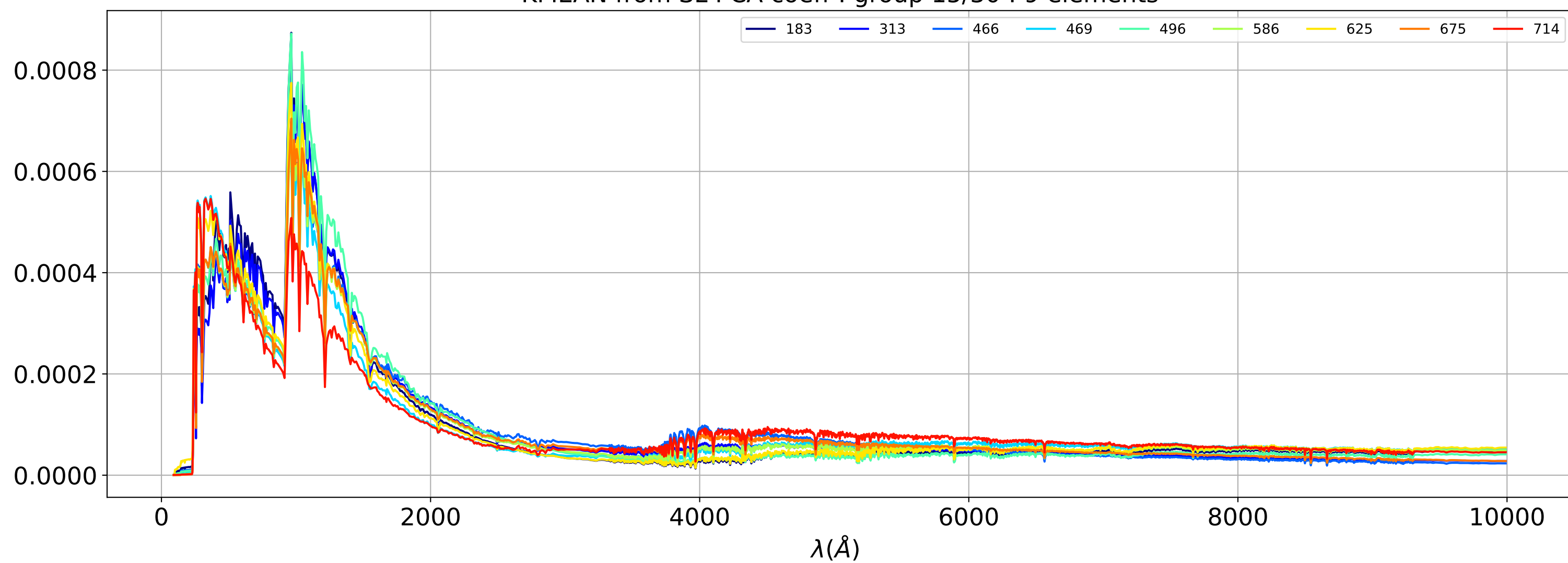**KMEAN from SL PCA coeff : group 10/30 : 13 elements**

Legend: 37, 275, 389, 452, 460, 542, 584, 596, 628, 652, 258, 372, 418

**KMEAN from SL PCA coeff : group 11/30 : 24 elements**

Legend: 25, 117, 161, 259, 309, 360, 559, 597, 639, 687, 45, 127, 185, 266, 352, 459, 594, 602, 651, 696, 106, 138, 249, 308

**KMEAN from SL PCA coeff : group 12/30 : 26 elements**

Legend: 36, 240, 280, 365, 400, 435, 535, 600, 645, 719, 61, 245, 281, 384, 403, 437, 556, 643, 683, 733, 111, 279, 336, 388, 421, 532

**KMEAN from SL PCA coeff : group 13/30 : 17 elements**

Legend: 2, 71, 223, 338, 513, 569, 578, 636, 692, 705, 31, 218, 244, 476, 517, 574, 632

**KMEAN from SL PCA coeff : group 14/30 : 9 elements**

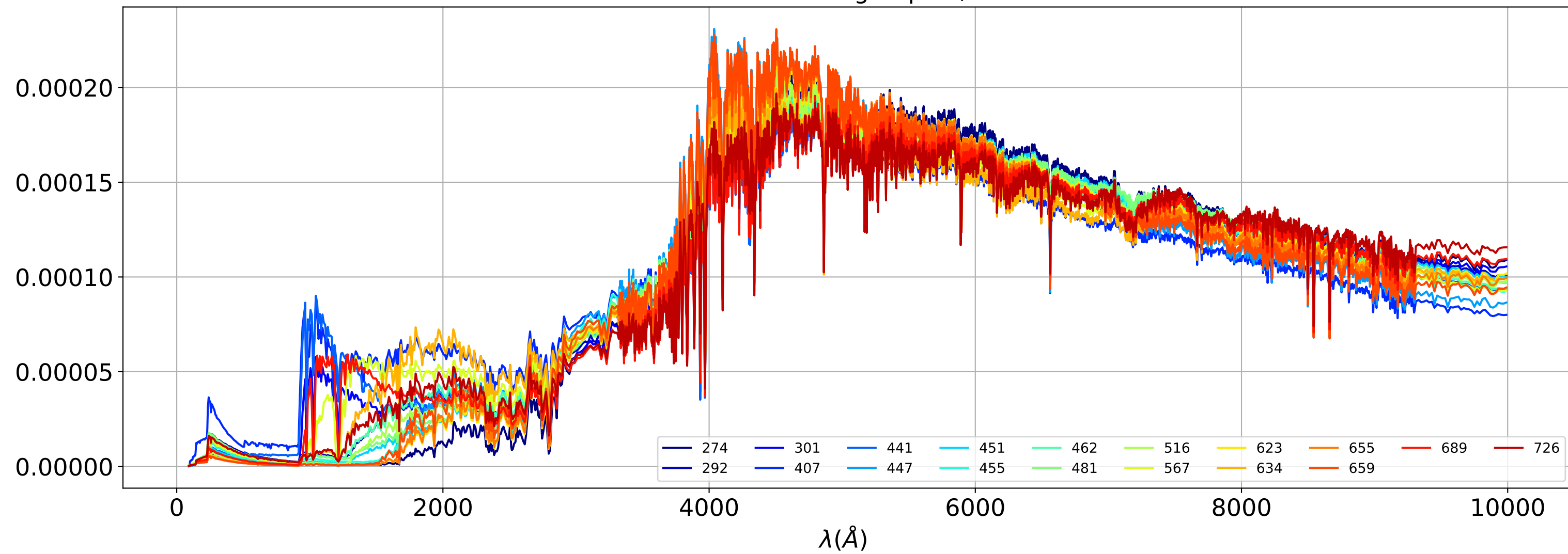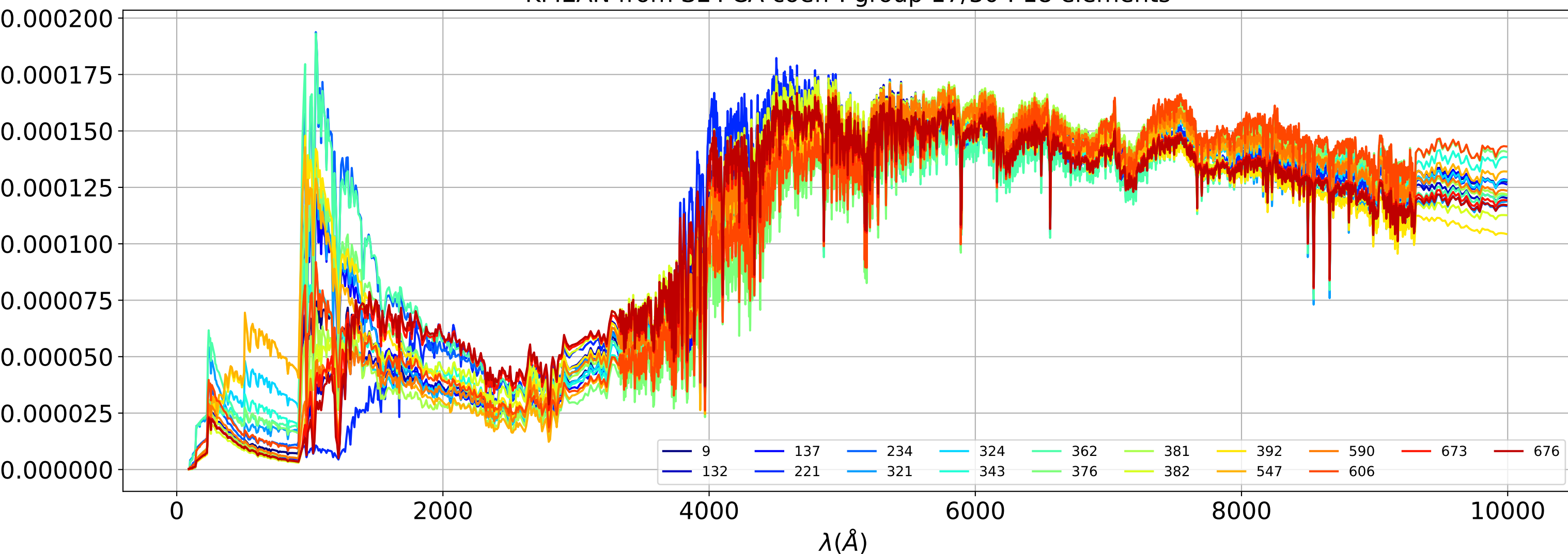Legend: 47, 57, 226, 227, 512, 523, 526, 527, 529

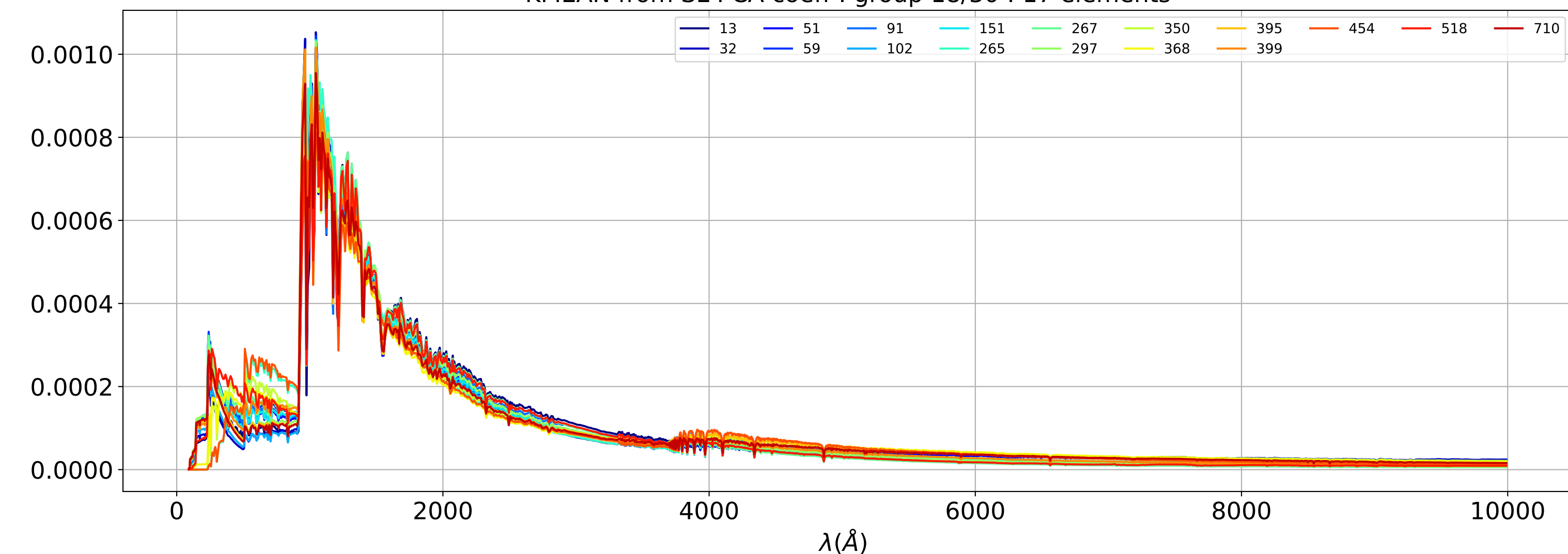KMEAN from SL PCA coeff : group 15/30 : 9 elements

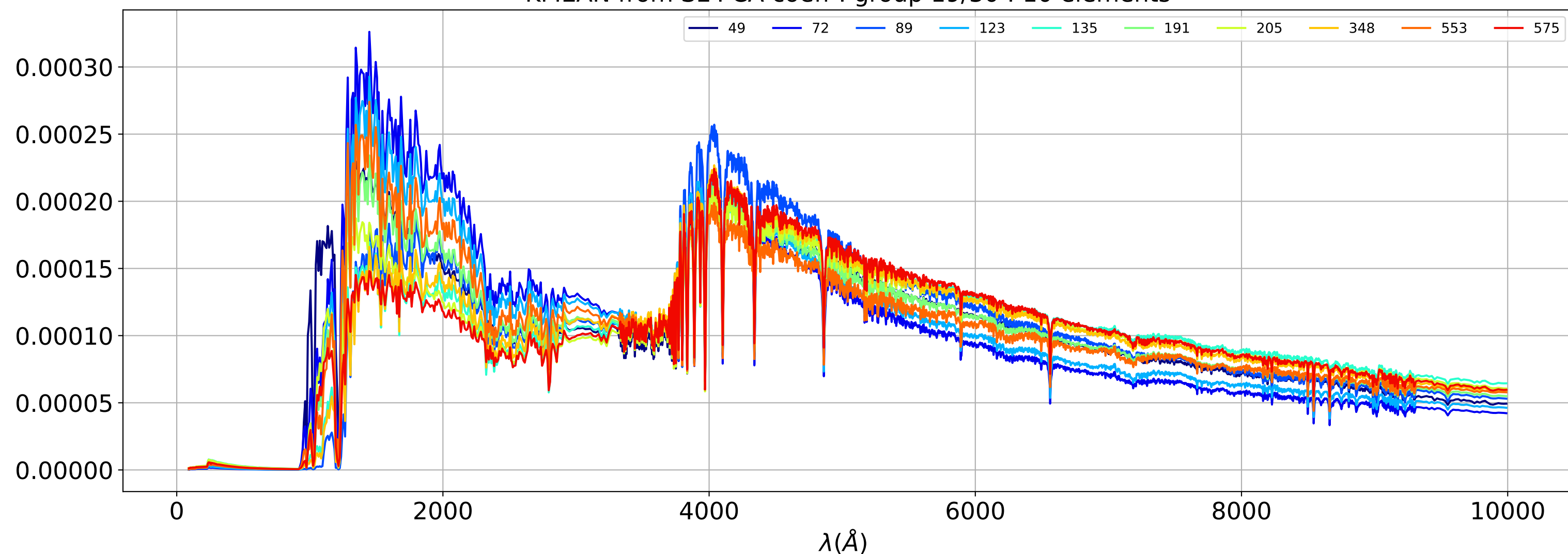KMEAN from SL PCA coeff : group 16/30 : 18 elements

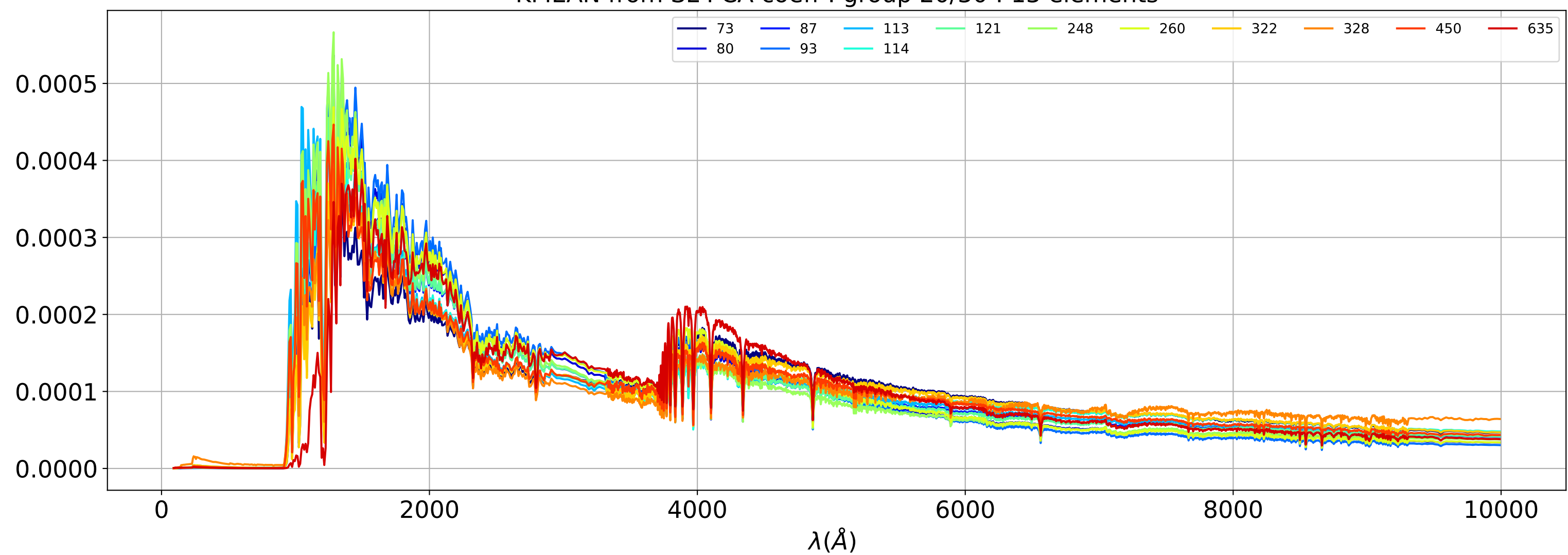KMEAN from SL PCA coeff : group 17/30 : 18 elements

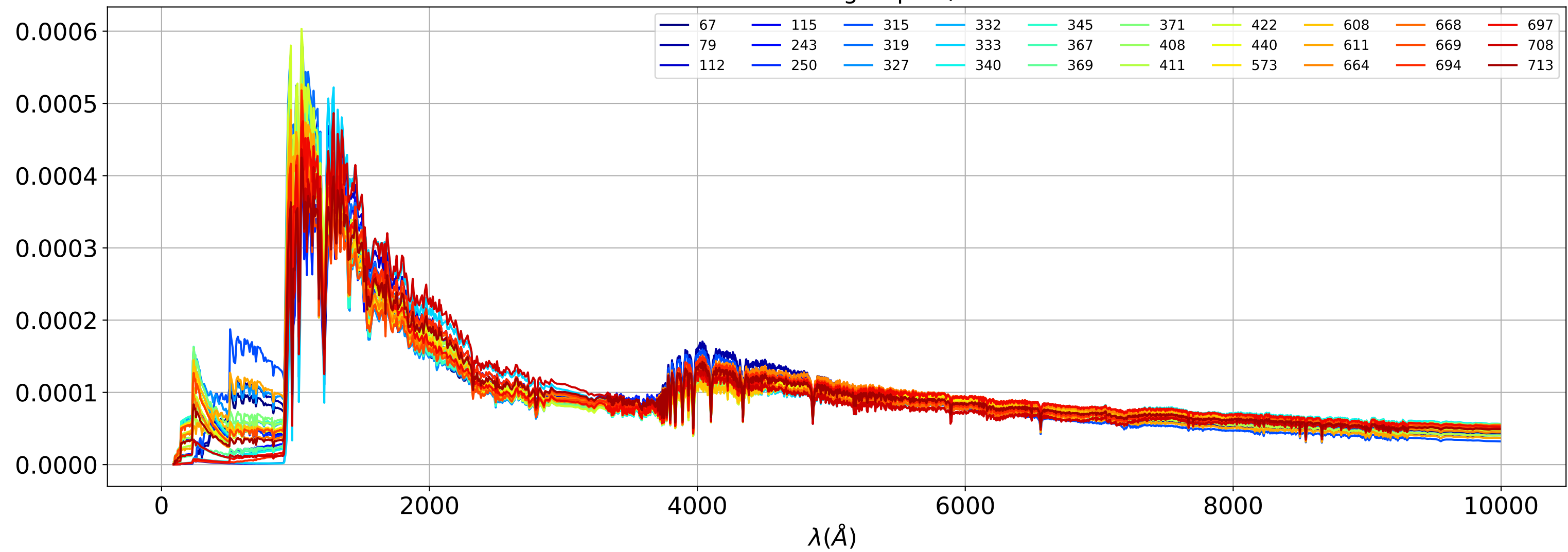KMEAN from SL PCA coeff : group 18/30 : 17 elements

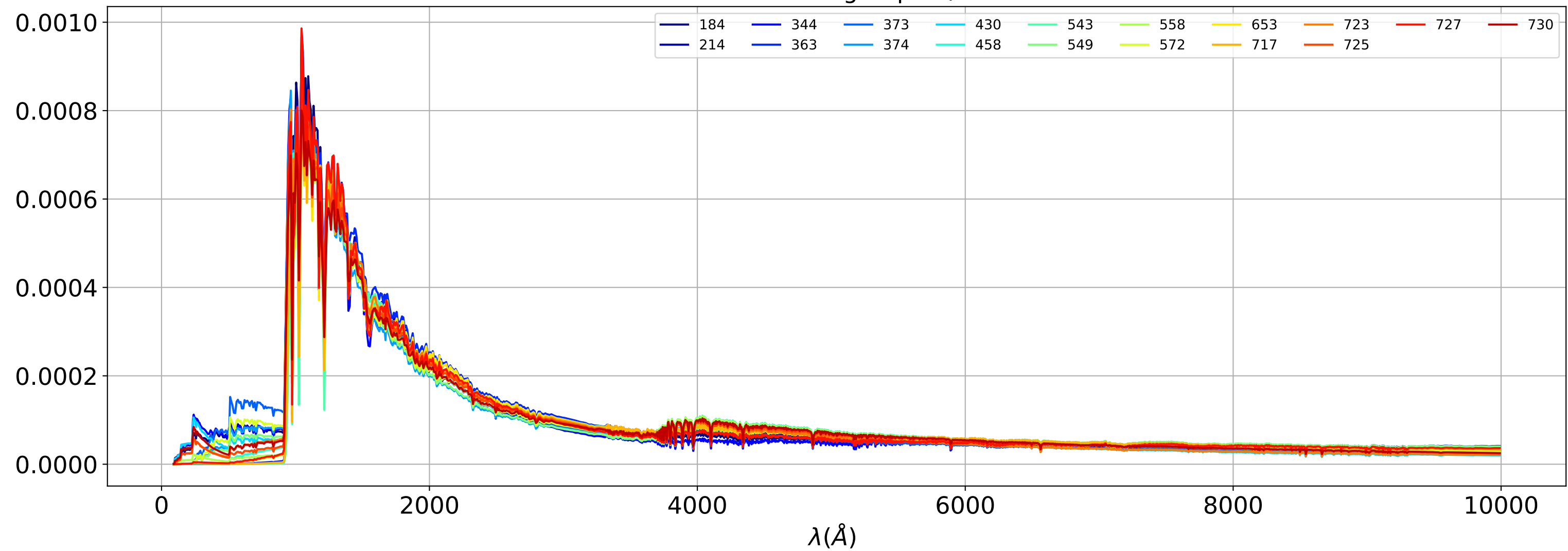KMEAN from SL PCA coeff : group 19/30 : 10 elements

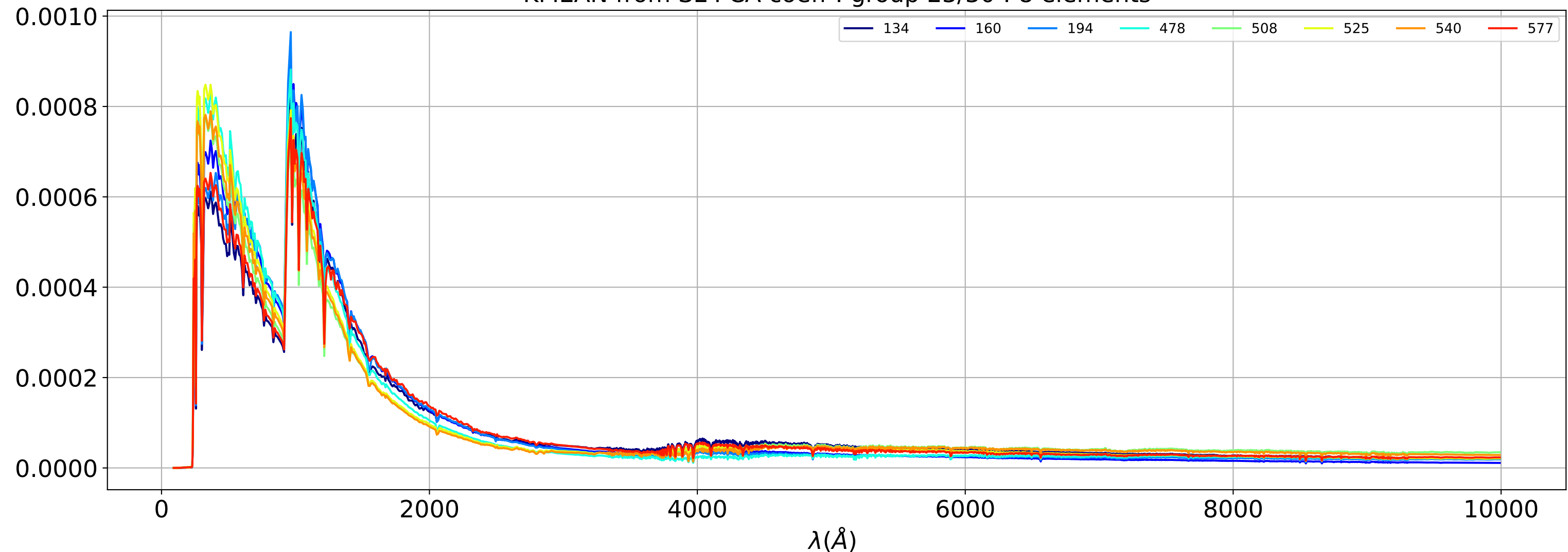KMEAN from SL PCA coeff : group 20/30 : 13 elements
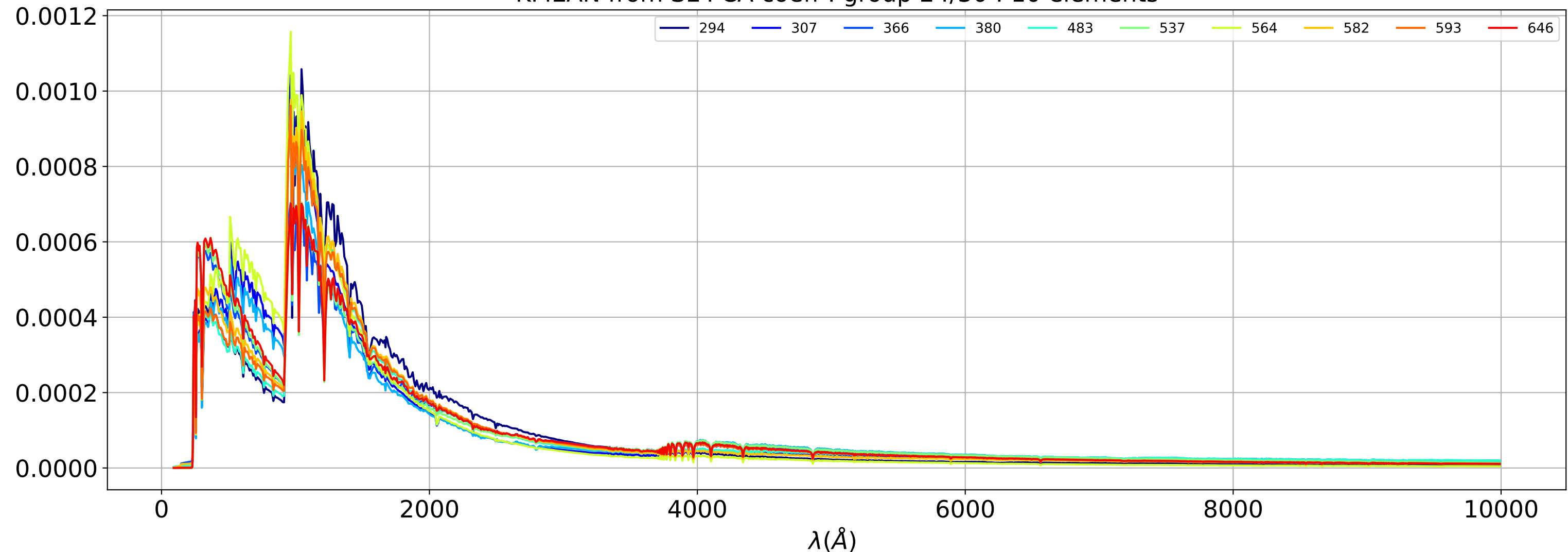
KMEAN from SL PCA coeff : group 21/30 : 30 elements

KMEAN from SL PCA coeff : group 22/30 : 18 elements

KMEAN from SL PCA coeff : group 23/30 : 8 elements

KMEAN from SL PCA coeff : group 24/30 : 10 elements

Kmean/PCA : cluster counts

$\mu = 18.3$
$\sigma = 9.8$

number of spectr per cluster