# Test A: Variations in signal-to-noise ratio (SNR)

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Spectra Filename | SDSS ID | Average SNR |
| 1 | spSpec-51908-0451-334.fit | 587725471209816207 | 43 |
| 2 | spSpec-52295-0525-094.fit | 587726031719694530 | 55 |
| 3 | spSpec-52875-1416-493.fit | 587736753002840233 | 28 |
| 4\* | spSpec-52990-1429-427.fit | 588297864724021335 | 20 |
| 5 | spSpec-53121-1384-251.fit | 587736584431468837 | 33 |
| 6 | spSpec-53121-1384-393.fit | 587736585504817308 | 34 |
| 7 | spSpec-53169-1616-531.fit | 588017571921461346 | 11 |
| 8 | spSpec-53848-1705-518.fit | 587736478126178417 | 46 |
| 9\* | spSpec-52990-1429-427.fit | 588297864724021335 | 20 |
| 10 | spSpec-54584-2520-480.fit | 587742611347669280 | 115 |

# Test B: Variations in emission-line width (full width at half maximum; FWHM)

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Spectra Filename | SDSS ID | FWHM (km/s) |
| 1\* | spSpec-51688-0302-227.fit | 587722982827688066 | 667 |
| 2 | spSpec-51899-0446-394.fit | 587725981763764402 | 2377 |
| 3 | spSpec-52000-0554-242.fit | 588010136803868765 | 792 |
| 4 | spSpec-52286-0571-130.fit | 587728879263875234 | 2898 |
| 5\* | spSpec-51688-0302-227.fit | 587722982827688066 | 667 |
| 6 | spSpec-52347-0615-159.fit | 587729228223479902 | 222 |
| 7 | spSpec-52520-0728-191.fit | 587730774407512908 | 1937 |
| 8 | spSpec-53117-1451-190.fit | 588017110759243916 | 451 |
| 9 | spSpec-53142-1390-223.fit | 587736584973582628 | 511 |
| 10 | spSpec-54206-2137-597.fit | 587739459372318858 | 295 |

# Test C: Variations in emission-line flux ratio ([O III]/ Hβ)

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Spectra Filename | SDSS ID | log([OIII]/Hβ) |
| 1 | spSpec-51912-0468-478.fit | 587727942952943700 | 0.200 |
| 2 | spSpec-52636-1060-328.fit | 587731681185038501 | 0.683 |
| 3 | spSpec-52674-1209-543.fit | 588297864176992444 | 0.100 |
| 4\* | spSpec-53033-1360-544.fit | 588017626683736205 | 0.131 |
| 5 | spSpec-53473-2008-121.fit | 587739646748196967 | 0.479 |
| 6 | spSpec-53757-2138-583.fit | 587739382062186600 | -0.270 |
| 7 | spSpec-53792-1809-555.fit | 588017992303575209 | 0.101 |
| 8 | spSpec-54509-2880-392.fit | 588010879298371736 | 0.582 |
| 9 | spSpec-54526-2148-173.fit | 587739828205256908 | 0.197 |
| 10\* | spSpec-53033-1360-544.fit | 588017626683736205 | 0.131 |

\* For each test, the two question numbers with an asterisk are repeats of the same sound/spectra.