

31-band\_EQ\_values

| ↓ HP model / dB→          | 20    | 25    | 31.5 | 40   | 50   | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1K   | 1.25K | 1.6K | 2K   | 2.5K | 3.15K | 4K   | 5K   | 6.3K  | 8K    | 10K   | 12.5K | 16K   | 20K   |  |
|---------------------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|-------|-------|-------|-------|-------|-------|--|
| (FR target curves)        |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |       |       |       |       |       |       |  |
| Diffuse field (H&M)       | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0.5  | 0.8  | 1    | 1.2  | 1.5  | 2    | 3    | 3.5  | 4    | 5     | 8    | 11   | 15.5 | 15.5  | 13   | 10.5 | 10    | 9.5   | 7     | 4     | 0     | -3.6  |  |
| Diffuse field (B&K)       | 0     | 0.3   | 0.5  | 0.2  | 0.3  | 0.2  | 0.5  | 0.3  | 0.2  | 0.3  | 0    | 0.4  | 1    | 1.3  | 2.5  | 2.5  | 4    | 5    | 4.7   | 5.7  | 10   | 15   | 17.3  | 15   | 11.6 | 10.7  | 2.3   | 4.2   | 9.2   | 0     | -4.5  |  |
| -1dB/oct room gain        | 5     | 4.7   | 4.5  | 4.1  | 3.8  | 3.5  | 3.2  | 2.8  | 2.6  | 2.1  | 1.9  | 1.5  | 1.1  | 0.8  | 0.5  | 0.2  | -0.8 | -0.5 | -0.3  | -1.2 | -1.5 | -1.7 | -2.1  | -2.4 | -2.7 | -3    | -3.4  | -3.8  | -4.2  | -4.7  | -5    |  |
| -0.9dB/oct room gain      | 4.5   | 4.3   | 4    | 3.6  | 3.3  | 3    | 2.7  | 2.5  | 2.2  | 1.7  | 1.5  | 1.3  | 1    | 0.7  | 0.3  | 0    | -0.3 | -0.7 | -1    | -1.3 | -1.6 | -1.8 | -2    | -2.5 | -2.8 | -3    | -3.3  | -3.7  | -4    | -4.3  | -4.5  |  |
| B&K room gain             | 2.5   | 2.7   | 2.9  | 3    | 3    | 3    | 3    | 2.9  | 2.8  | 2.7  | 2.5  | 2.2  | 2    | 1.8  | 1.6  | 1.5  | 1.1  | 0.9  | 0.6   | 0.3  | 0    | -0.3 | -0.5  | -1.1 | -1.2 | -1.6  | -2    | -2.2  | -2.6  | -3.1  | -3.6  |  |
| DF+RG (H&M/B&K)           | -0.3  | -0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.2  | 0.1  | 0    | 0.4  | 0.5  | 0.4  | 0.4  | 0.5  | 0.8  | 1.7  | 1.8  | 2.1  | 2.8   | 5.5  | 8.2  | 12.4 | 12.2  | 9.1  | 6.5  | 5.6   | 4.7   | 2     | -1.4  | -5.9  | -10   |  |
| DF+RG (B&K/B&K)           | 0     | 0.5   | 0.9  | 0.7  | 0.8  | 0.7  | 1    | 0.7  | 0.5  | 0.5  | 0    | 0.1  | 0.5  | 0.6  | 1.6  | 1.5  | 2.6  | 3.4  | 2.8   | 3.5  | 7.5  | 12.2 | 14.3  | 11.4 | 7.9  | 6.6   | -2.2  | -0.5  | 4.1   | -5.6  | -10.6 |  |
| DF+ 1dB/oct (H&M)         | 2.7   | 2.4   | 2.2  | 1.8  | 1.5  | 1.2  | 0.9  | 0.5  | 0.3  | 0.3  | 0.4  | 0.2  | 0    | 0    | 0.2  | 0.9  | 0.4  | 1.2  | 2.4   | 4.5  | 7.2  | 11.5 | 11.1  | 8.3  | 5.5  | 4.7   | 3.8   | 0.9   | -2.5  | -7    | -10.9 |  |
| Etymotic target Cr        | -1.3  | -1.3  | -1.3 | -1.3 | -1.3 | -1.3 | -1.3 | -1.3 | -1.3 | -1.3 | -1.1 | -1   | -0.8 | -0.4 | -0.2 | 0.5  | 1.3  | 2.1  | 2.7   | 3.5  | 7.9  | 11.5 | 11    | 8.1  | 6.6  | 3.4   | 2.5   | 0     | -2.5  | -4.5  | -7    |  |
| Harman 2013               | 3.8   | 3.8   | 4    | 4    | 3.8  | 3.6  | 2.7  | 2.5  | 1.5  | 0.8  | 0.3  | 0    | 1    | 1.4  | 1.8  | 2.1  | 2.6  | 2.7  | 3.4   | 6    | 7.7  | 11.3 | 12    | 10.4 | 8    | 6.6   | 3.5   | 0.2   | -4    | -8    | -7    |  |
| Harman '13 -2 bass        | 1.8   | 1.8   | 2    | 2    | 1.8  | 1.6  | 1.7  | 1.5  | 0.5  | 0.3  | 0    | 0    | 1    | 1.4  | 1.8  | 2.1  | 2.6  | 2.7  | 3.4   | 6    | 7.7  | 11.3 | 12    | 10.4 | 8    | 6.6   | 3.5   | 0.2   | -4    | -8    | -7    |  |
| Harman '13 w/o bass       | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1.4  | 1.8  | 2.1  | 2.6  | 2.7  | 3.4   | 6    | 7.7  | 11.3 | 12    | 10.4 | 8    | 6.6   | 3.5   | 0.2   | -4    | -8    | -7    |  |
| Harman 2018               | 5.5   | 6.2   | 6.1  | 5.8  | 5.6  | 5    | 4.4  | 3.4  | 2    | 1    | 0.1  | 0    | 0.5  | 1    | 1.3  | 1.7  | 1.9  | 2    | 3     | 5.2  | 7.4  | 9.6  | 10.6  | 10.3 | 9.5  | 7     | 4.6   | 1.6   | -3    | -6    | -18   |  |
| Harman '18 (Or's -2 bass) | 3.8   | 3.8   | 3.7  | 3.7  | 3.5  | 3.2  | 2.6  | 1.7  | 0.9  | 0.3  | 0    | 0    | 0.4  | 0.8  | 1    | 1.4  | 1.7  | 1.8  | 2.5   | 4.4  | 7    | 9.3  | 10.4  | 10.2 | 8.2  | 6.6   | 4.2   | 1.1   | -2.5  | -6.7  | -18.6 |  |
| Harman '18 w/o bass       | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0.4  | 0.8  | 1    | 1.4  | 1.7  | 1.8  | 2.5   | 4.4  | 7    | 9.3  | 10.4  | 10.2 | 8.2  | 6.6   | 4.2   | 1.1   | -2.5  | -6.7  | -18.6 |  |
| (Headphones)              |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |       |       |       |       |       |       |  |
| AKG K361 Or               | 1.6   | 2.2   | 2.5  | 2.8  | 1.8  | -0.3 | -0.4 | 0    | 0.2  | 0.5  | -1.9 | -3.3 | -3.9 | -3.6 | -2.8 | -2.1 | -0.8 | 0    | 1.8   | 3.7  | 5.4  | 6.1  | 6.6   | -0.4 | 0.2  | 1.5   | -1.1  | -3.7  | -7.4  | -11.1 | -13.8 |  |
| AKG K371 Or               | 5.7   | 5.9   | 5.3  | 4.9  | 3.2  | 0.9  | 1    | 0.9  | 0.6  | -0.3 | -0.8 | -1.8 | -1.8 | -1.8 | -1.5 | -1.1 | -0.6 | 0    | 0.7   | 2.3  | 4.2  | 7.3  | 7.3   | 2    | 4.2  | 4.3   | 3     | -3.3  | -6.2  | -15   | -16.5 |  |
| AKG K550 IF               | 2.4   | 3     | 3.2  | 3    | 2.3  | 1.4  | -0.4 | 0.9  | 1.7  | -0.8 | -0.3 | -0.6 | -0.8 | -1.2 | -1   | -2   | -1.8 | 0    | 2.1   | 2.7  | 2.9  | 5.6  | 7.6   | 4    | 1.8  | 3.7   | 2.7   | 2.1   | -4.9  | -12.5 | -5.3  |  |
| AKG K601 Or               | -9    | -7.5  | -6   | -5   | -5   | -5   | -2.5 | -2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 0    | 2     | 6    | 10   | 13.5 | 11.5  | 10.5 | 5    | 6     | 7     | -9    | -7    | -3    | -10   |  |
| AKG K701 Rt               | -6    | -4    | -4   | -3   | -2.5 | -2   | -2   | -1.5 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -2   | -1.5 | 0    | 1.5   | 4    | 9    | 13   | 11.5  | 7.5  | 6.5  | 9.5   | 10    | -1    | 1     | -10   | -7    |  |
| AKG K712 Or               | 1     | 2     | 2.8  | 3.4  | 3.9  | 4.2  | 4.3  | 4.3  | 3.9  | 3.9  | 4.4  | 4.6  | 4.6  | 4.5  | 4.1  | 3.1  | 1.8  | 0    | -2.1  | 2.1  | 7.3  | 8.2  | 6.6   | 9.1  | 10.3 | 8.7   | 6.8   | -5.2  | 1.8   | -3.4  | -11.1 |  |
| AKG Q701 Rt               | -5    | -4    | -3   | -2   | -1.5 | -1   | -1   | -0.5 | 0    | 0    | 0    | 0    | 0    | 0    | -0.5 | -1   | -0.5 | 0    | 1     | 4    | 9    | 12   | 9.5   | 7    | 6.5  | 10    | 9     | -3    | 3     | -11   | -7    |  |
| Audeze LCD-1 Or           | -5.3  | -4.6  | -4   | -3.7 | -3.6 | -3.1 | -2.1 | -2.2 | -2.3 | -2.3 | -2.1 | -1.9 | -1.6 | -1.2 | -1.2 | -1.4 | -1.2 | 0    | -0.9  | -2.2 | -0.6 | 5.1  | 8.7   | 5.9  | 0.1  | -3.2  | -1.9  | -5.7  | -5.6  | -3.5  | -12.9 |  |
| Audeze LCD-2 Class Rt     | -5    | -4.8  | -3.8 | -2.9 | -2.8 | -2.9 | -3   | -3   | -2.9 | -2.8 | -2.8 | -2.7 | -2.4 | -2.2 | -2.5 | -0.8 | 1.2  | 0    | 0.8   | 0.2  | 2.2  | 4.5  | 1.7   | -5   | -2.2 | 1.5   | 0.1   | -13   | -4.4  | -7.9  | -10.1 |  |
| Audeze LCD-2 Or           | -3.3  | -2.8  | -1.8 | -1.8 | -2.1 | -1.9 | -1.8 | -1.7 | -1.7 | -1.7 | -1.6 | -1.7 | -2.1 | -1.8 | -1   | -0.4 | 0    | 0    | -0.3  | 1.5  | 1.5  | 2.6  | 4     | -0.6 | -1.8 | 2.8   | -1.8  | -2.2  | -4.9  | -11.1 | -5.1  |  |
| Audeze LCD-X IF           | -4.7  | -3.9  | -0.3 | 0.1  | 0    | -0.3 | -0.3 | -0.1 | -0.3 | -0.5 | -0.2 | -0.4 | 0    | -0.3 | 0.1  | -0.5 | 0    | 0    | -0.7  | 1.3  | 3.5  | 5.3  | 6.2   | 4.7  | 4.5  | 0.9   | -3.1  | 0.5   | -3.1  | -4    | -4    |  |
| Audeze LCD-X Cr2          | -5.2  | -4.6  | -4.3 | -3.7 | -3.3 | -2.6 | -2.5 | -2.5 | -2.4 | -2.2 | -2   | -1.6 | -1.2 | -1.3 | -0.8 | 0.7  | 0.6  | 0    | -2.6  | -3.2 | -2   | -1.7 | -3.4  | -4.3 | 2.7  | 1.2   | -3.4  | -10.3 | -3.5  | -4.4  | -6.8  |  |
| Audio-T M40x Rt           | -0.3  | 1.2   | 2.7  | 3.8  | 4.3  | 4.2  | 3.2  | 3.7  | 4.3  | 2.9  | 1.1  | -1.6 | -3.8 | -3.7 | -3.2 | -2.2 | -1.4 | 0    | 2.2   | 3.8  | 5.3  | 7.2  | 8.3   | 6.1  | 3.4  | 0.9   | 7.7   | 4.6   | -1.1  | 1.3   | -9.1  |  |
| Audio-T M40x Or           | -14.5 | -11.4 | -8.1 | -4.9 | -2.1 | -1.3 | 0.5  | 1    | 2.7  | 2.4  | 2.5  | 1.6  | -0.3 | -1.3 | -1.4 | -0.1 | 0.1  | 0    | 2.1   | 3.8  | 5.6  | 8.3  | 9.6   | 9.4  | 6.7  | 6.5   | 8.8   | 2.3   | -2.6  | -5.8  | -8    |  |
| Audio-T M50x Or           | -7.8  | -4.9  | -2   | 0    | 0.3  | 0.2  | -0.4 | 0.8  | 0.6  | 0.6  | -0.3 | -3   | -3.5 | -2   | -0.7 | -0.2 | -0.1 | 0    | 1.2   | 2.7  | 6.3  | 10.6 | 11.2  | 10.7 | 7.1  | 3.6   | 8.6   | -0.3  | 3.2   | 3.7   | -9.2  |  |
| Audio-T M50x Cr           | 3.8   | 5.1   | 5.4  | 6.4  | 5.7  | 4.4  | 3.3  | 2.1  | 2.5  | 1.8  | -0.7 | -2.7 | -3.4 | -1.5 | -0.5 | 0.1  | 0.8  | 0    | 0     | 1.5  | 6.6  | 10.5 | 9.8   | 7.8  | 3.1  | 3.8   | 3.6   | -0.5  | -3.2  | -1.2  | -11.2 |  |
| Audio-T M50x Cr2          | 1     | 1.7   | 2.3  | 2.9  | 2.7  | 1.3  | 2.3  | 2.8  | 3.2  | 2.6  | 0.9  | -1.4 | -1.4 | -1.4 | -1.4 | -0.4 | 0.2  | 0    | 0.3   | 1.4  | 4    | 6.3  | 7.4   | 7.5  | 5.1  | 3.5   | 1.3   | -1.9  | -2.9  | -8.8  | -7.9  |  |
| Audio-T MSR7b Cr2         | -1.5  | 1     | 2.2  | 3.3  | 3.9  | 3.7  | 3.9  | 4.6  | 3.8  | 2.2  | -1.1 | -4.2 | -3.9 | -2.3 | -1.4 | -0.5 | -0.1 | 0    | 0.7   | 2.7  | 5.4  | 6.9  | 4.7   | 6.2  | 6.4  | 4.8   | 2.5   | -1.3  | -5.2  | -17.1 | -10.3 |  |
| AudioQ Nighthawk IF       | 8.4   | 8.3   | 8.2  | 8    | 7.8  | 7.4  | 7.4  | 8.4  | 8.1  | 7.9  | 8.3  | 8.1  | 7.6  | 6.6  | 5.7  | 3.4  | 1.8  | 0    | 1.6   | 5.2  | 5.8  | 5.6  | 8.4   | 5    | 2.1  | 3.9   | 4.6   | 5     | -1.9  | -6    | -0.6  |  |
| Aurora Borealis Rslv      | -7.4  | -6.7  | -5   | -3.5 | -2.7 | -2.4 | -2.3 | -2.5 | -3   | -3.7 | -3.2 | -3.9 | -4.1 | -4   | -3.4 | -2.7 | -1.4 | 0    | 0.3   | 0    | 0.9  | 3    | 3.3   | 3.6  | 3.3  | 0.8   | -2.7  | -13.7 | -12.7 | -11   | -14.7 |  |
| Aurora Borealis Or        | -9    | -7    | -5   | -3.7 | -2.9 | -2.2 | -2.1 | -2.6 | -3.2 | -3.8 | -3.5 | -4   | -4.1 | -4   | -3.6 | -2.9 | -1.5 | 0    | 0.1   | 0    | 1    | 2    | 3.5   | 3.6  | 3    | 0     | -2    | -13   | -13   | -11   | -14   |  |
| Beats Solo HD IF          | 8.4   | 8     | 7.4  | 6.5  | 4.7  | 0.5  | 9    | 7    | 5.5  | 4    | 1.9  | 1    | 0    | -3.7 | -3.9 | -2.2 | -0.8 | 0    | 0.3   | 0    | 0.2  | 1.5  | 5.1   | 4.8  | 0.5  | -10.5 | -11.5 | -8.5  | -15.5 | -19.5 | -19.5 |  |
| Beats Solo3 Wireless Rt   | 10    | 10    | 10   | 9.5  | 9.5  | 9.5  | 9    | 9    | 8.5  | 8    | 7    | 5    | 2    | 1    | 0.5  | -0.5 | -1   | 0    | 2     | 4.5  | 7    | 10   | 14    | 9    | 7    | 6     | 7     | 2     | -3    | -8    | -13   |  |
| bey DT 770/80 Or          | -9.2  | -7.3  | -5.9 | -5.1 | -5.3 | -5.3 | -7   | 4.8  | 7.3  | 4.6  | 3.2  | 2.2  | 1.4  | 0.8  | 0.2  | -0.2 | -0.2 | 0    | 1.5   | 3.7  | 7.3  | 8.3  | 6     | 2.3  | 2.5  | 4     | 5.9   | -2.3  | 1.7   | -9.9  | -20.6 |  |
| bey DT 770/250 Or         | 5.8   | 6.5   | 7    | 7.2  | 7    | 6.2  | 3.8  | -2.7 | 2.4  | -0.2 | -6.4 | -6.1 | -4   | -2.9 | -2.3 | -2.3 | -1.4 | 0    | -0.8  | 1.2  | 3.9  | 6.6  | 3.4   | 6.1  | 6.1  | 9.2   | 5     | -0.9  | 4.3   | -1.7  | -10.8 |  |
| bey DT 880/250 IF         | -5.3  | -4.1  | -2.6 | -2   | -1.2 | -0.5 | -0.7 | 0.3  | 0.4  | 0.6  | 0.8  | 0.8  | 0.6  | 0.4  | 0.5  | 0    | 0.2  | 0    | 0     | 1.1  | 3.2  | 5.6  | 9.6   | 6.8  | 2.8  | 4.7   | 4.1   | 3.9   | -4.8  | -13.8 | -3.4  |  |
| beyer DT 880 Or           | -5.8  | -5.1  | -4.5 | -3.8 | -3.4 | -3.2 | -3.5 | -2.5 | -2   | -1.7 | -1.5 | -1.4 | -1.3 | -1.2 | -1.5 | -0.9 | -0.9 | 0    | 0.3   | 2.2  | 5.3  | 8.5  | 10.1  | 9.3  | 7.1  | 10.5  | 3.5   | -7.1  | -2.5  | -6.5  | -9    |  |
| bey DT 990/250 Or         | -2.8  | -1.4  | 0    | 1.3  | 2.3  | 2.9  | 3.1  | 2.5  | 2.6  | 2    | 1.3  | 0.2  | -0.9 | -1.9 | -1.7 | -2.1 | -1.9 | 0    | 1.6   | 2.8  | 5.2  | 8.8  | 10.7  | 10.5 | 10.1 | 10.8  | 11.5  | 4.2   | 7.1   | 2.4   | -3.1  |  |
| bey DT 1770 L pads Rt     | 5.7   | 6.1   | 5.8  | 5.1  | 4.2  | 5.3  | 7.1  | 7.6  | 7.8  | 6    | 1.3  | -2.7 | -1.4 | -0.4 | -0.1 | -0.4 | -0.3 | 0    | 0.2   | -0.1 | -0.1 | 2.1  | 2.7   | 0.5  | 1.1  | 5.9   | 5.6   | 0.1   | -4.5  | -18.6 | -26.4 |  |
| bey DT 1990 A pads Or     | -2.2  | -1.6  | -1   | -0.5 | 0    | 0.3  | 0.5  | 0.6  | 0.8  | 1.2  | 1.2  | 1.3  | 1.1  | 0.8  | 0.5  | 0.2  | -0.1 | 0    | 1.3   | 3.3  | 5.1  | 8    | 7.8   | 4.1  | 6.9  | 5.9   | 12.7  | 1     | 1.7   | 1.8   | -13.5 |  |
| bey DT 1990 B pads Cr2    | 1.2   | 1.8   | 2.3  | 2.6  | 2.8  | 2.8  | 2.5  | 2.9  | 2.9  | 2.9  | 2.6  | 2.3  | 1.7  | 0.9  | 0    | -0.1 | -0.1 | 0    | 0.6   | 2.7  | 5.3  | 7.6  | 8.7   | 8.4  | 6.4  | 7.4   | 9.4   | 0.2   | 0.4   | -7.4  | -4.2  |  |

|                                                                                                                                                                  |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |       |      |       |       |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|-------|------|-------|-------|--|--|
| Hifiman Ananda Rt                                                                                                                                                | -3.5  | -2.8  | -2   | -1.4 | -0.9 | -0.6 | -0.7 | -1   | -1   | -1   | -1.1 | -1.2 | -2.2 | -1.2 | -0.5 | -0.5 | -1.2 | 0 | -1.4 | -1.7 | 1.9  | 8    | 9.6  | 6.2  | 3.3  | 3.8  | 6.4  | -7.9  | -1.2 | -4.4  | -2.1  |  |  |
| Hifiman Arya Or                                                                                                                                                  | -0.8  | -0.8  | -0.8 | -0.8 | -0.8 | -0.7 | -0.6 | -0.6 | -0.4 | -0.2 | -0.8 | -1   | 0.5  | -0.9 | 1.2  | -0.5 | -.8  | 0 | 0.1  | -1.3 | 1.3  | 7.3  | 8.8  | 4.3  | 10   | 7.7  | 5.5  | -3.1  | 2.3  | -11.5 | -10.1 |  |  |
| Koss Porta Pro Rt                                                                                                                                                | -6.9  | -4.7  | -2.2 | 0.1  | 2    | 3.4  | 4.3  | 4.6  | 4.5  | 3.8  | 2.9  | 1.8  | 1.2  | 0.4  | -0.1 | -0.2 | -0.3 | 0 | 1.4  | 4.2  | 7.2  | 9.3  | 8.7  | -0.7 | 5.3  | -1.5 | 0.6  | 0     | -8.9 | -15.3 | -23.8 |  |  |
| Koss KSC75 Rt                                                                                                                                                    | -15.5 | -12.9 | -9.9 | -7   | -4.4 | -1.8 | 0.3  | 1.3  | 1.7  | 1.3  | 0.5  | 0    | -0.3 | -0.7 | -0.8 | -0.7 | -0.5 | 0 | 1.1  | 3.9  | 8.1  | 12.1 | 12   | 2.4  | 11.1 | 1.8  | 5.7  | 1.5   | -3.8 | -7.1  | -9.5  |  |  |
| Meze 99 Classics Or                                                                                                                                              | 9.7   | 10.4  | 10.9 | 11.2 | 11.3 | 11.2 | 10.5 | 9.3  | 9.4  | 9.6  | 9.3  | 7.5  | 2.6  | -0.2 | 1.7  | 2.8  | 2.1  | 0 | 2    | 5.7  | 8    | 8.3  | 7.3  | 2.7  | 13.9 | 11   | 8.2  | -6    | 6.8  | -4.3  | -14.1 |  |  |
| Meze Emphyrean Or                                                                                                                                                | 2.8   | 2.8   | 3    | 3.1  | 3    | 3    | 3.1  | 3.2  | 3.2  | 3.3  | 3    | 2.4  | 2    | 2.1  | 1    | 1.2  | 1.4  | 0 | -0.8 | -1.3 | -0.1 | 3.8  | 7.1  | 8.4  | 6.2  | 3.4  | 0.5  | -5.7  | -4.7 | 1.1   | -10.5 |  |  |
| Monoprice M1060 Or                                                                                                                                               | -1.8  | -1.7  | -1.2 | -0.9 | -0.4 | 0    | -0.1 | -0.1 | -0.1 | 0    | 0.1  | -0.1 | -1.4 | -1.8 | -0.7 | 0.7  | 1.1  | 0 | 1.8  | 4.1  | 7.3  | 9.2  | 10.2 | 8.1  | 4.3  | 2    | -5.7 | -1.4  | -4.9 | -1.5  | -1.5  |  |  |
| Neumann NDH 20 Or                                                                                                                                                | 8.4   | 8.9   | 9.3  | 9.2  | 8.8  | 7.8  | 5.9  | 4.6  | 4.7  | 4.1  | 3.1  | 2.4  | 1.6  | 1.1  | 1.3  | 1.4  | 1    | 0 | -1.4 | -1.5 | 0    | 3.1  | 8.2  | 11.1 | 8.2  | 5    | 7.5  | -3.9  | -6.2 | -8.4  | -7.4  |  |  |
| Oppo PM-3 Rt                                                                                                                                                     | 3     | 2.4   | 1.8  | 1.2  | 0.9  | 1.4  | 2.2  | 2.6  | 2.7  | 2.3  | 1.4  | 0.1  | -1.2 | -1.5 | -0.2 | 1.4  | 1.1  | 0 | 2.7  | 4.9  | 7.3  | 11.5 | 11.3 | 7.3  | 4.2  | 4.3  | 11.4 | 4.5   | -4.5 | -12.5 | -13.1 |  |  |
| Oppo PM-3 Or                                                                                                                                                     | 1.1   | 0.8   | 0.2  | -0.6 | -1.1 | 0.6  | 2.1  | 2.9  | 2.9  | 2.2  | 0.6  | -1.4 | -3   | -3.1 | -1.9 | -0.7 | -0.4 | 0 | 2.5  | 4.9  | 7.5  | 10   | 10.4 | 8.2  | 5.7  | 9.2  | 5.4  | -11.8 | 2.2  | -10.8 | -17.5 |  |  |
| Philips SHP9500 Or                                                                                                                                               | -9.9  | -8.1  | -6   | -4.1 | -2.6 | -1.5 | -1.1 | -0.5 | -0.5 | -0.6 | -0.2 | -1.4 | -1.7 | -1.6 | -1.5 | -1.3 | -0.6 | 0 | 0.8  | 1.5  | 2.2  | 4.7  | 8.3  | 9.5  | 10.8 | 12.4 | -0.9 | -0.2  | 1.6  | -4.9  | -16.6 |  |  |
| Philips Fid. X2HR Or                                                                                                                                             | -5    | -3.1  | -1   | 0.9  | 2.3  | 2.8  | 2.7  | 1.9  | 1    | -0.5 | -1.1 | -0.1 | -0.6 | -0.9 | -0.6 | -0.3 | 0.5  | 0 | -1   | 3.8  | 2.5  | 5.4  | 5.9  | 0.1  | 10.2 | 5.8  | -0.3 | -3.5  | -6.2 | -11.7 | -13.7 |  |  |
| Sendy Aiva Cr                                                                                                                                                    | -6.7  | -6    | -5.2 | -4.2 | -3.5 | -3   | -3.2 | -3.3 | -3.3 | -3.4 | -3.3 | -3.1 | -2.7 | -2   | -2   | -1.7 | 0    | 0 | -0.5 | -6.3 | -2.5 | 3.5  | 5.5  | -0.3 | -2.5 | -1.2 | -6.1 | -3.8  | -4.5 | -5.5  | -12   |  |  |
| Senn-Drop PC38X HdFi                                                                                                                                             | -5    | -3.5  | -2.5 | -1.5 | -0.7 | -0.1 | -0.6 | -0.6 | -0.7 | -2   | -2.2 | -2.5 | -2.5 | -2.7 | -2.5 | -2   | -1.3 | 0 | 1.3  | 2.5  | 3.1  | 5.5  | 7.4  | 7    | 7.3  | 1.6  | -0.7 | -3    | -3   | -7.5  | -10   |  |  |
| Senn-Drop HD 58X Or                                                                                                                                              | -7    | -5.3  | -3.9 | -2.7 | -1.8 | -1.2 | -0.8 | 0    | 0.2  | 0    | -0.2 | -0.4 | -0.5 | -0.8 | -0.9 | -0.9 | -0.6 | 0 | 1.2  | 1.5  | 1.9  | 3.3  | 6.6  | 6.1  | 7.4  | 1.1  | -1.2 | -7.2  | -5.8 | -11.4 | -9.1  |  |  |
| Senn HD 579 Cr2                                                                                                                                                  | -5.9  | -4.2  | -2.5 | -1.1 | -0.1 | 0.3  | 0.6  | 1.8  | 2.1  | 2.1  | 1.8  | 1.4  | 1    | 0.5  | 0.1  | -0.1 | -0.1 | 0 | 0.8  | 2.7  | 5.4  | 7.6  | 11.1 | 8.4  | 7.5  | 4.8  | 2.5  | -0.6  | -5.1 | -5.2  | -10.6 |  |  |
| Senn HD 599 Or                                                                                                                                                   | -7.5  | -5.7  | -3.9 | -2.3 | -1.4 | -0.4 | 0.5  | 1.5  | 1.9  | 2    | 1.8  | 1.2  | 0.9  | 0.6  | 0.2  | -0.2 | -0.2 | 0 | 0.4  | 1.2  | 4.6  | 8.3  | 10.8 | 8.2  | 4.7  | 2.2  | 2.9  | 0     | -7.7 | -14.5 | -9.6  |  |  |
| Senn HD 599 Rt                                                                                                                                                   | -3.7  | -2.5  | -1.1 | -0.1 | 0.8  | 1.7  | 2.2  | 2.7  | 3    | 2.8  | 2.3  | 1.7  | 1.2  | 0.5  | 0.2  | 0    | -0.2 | 0 | 0    | -0.7 | 2.9  | 6.7  | 10.4 | 7.7  | 5.4  | 2.9  | 2.3  | -3.4  | -5.1 | -11.6 | -7.7  |  |  |
| Senn HD 600 IF                                                                                                                                                   | -10   | -7.7  | -5.3 | -3   | -1.5 | -0.3 | 0.5  | 1.5  | 1.6  | 1.5  | 1.2  | 0.9  | 0.5  | 0    | 0.4  | -0.3 | 0.2  | 0 | 1.6  | 2.5  | 3.9  | 7    | 11.4 | 8.4  | 4.5  | -1.6 | -1.5 | -0.5  | -9   | -10.5 | -6    |  |  |
| Senn HD 600 Or                                                                                                                                                   | -6.7  | -4.7  | -3.3 | -2.1 | -1.3 | -1.1 | -0.3 | 0.2  | 0.2  | -0.1 | -0.5 | -0.8 | -1.1 | -1.4 | -1.4 | -1.1 | -1.2 | 0 | 1.4  | 2.7  | 5.2  | 7.8  | 10.6 | 6.4  | 6.3  | 4.8  | 2.7  | -4.1  | 0    | -5    | -13   |  |  |
| Senn HD 600 Cr2                                                                                                                                                  | -11.5 | -9.3  | -7.5 | -5.7 | -4.6 | -3.5 | -2.1 | -1.4 | -1.1 | -1.5 | -1.2 | -1.3 | -1.5 | -1.5 | -1.4 | -1.1 | -0.7 | 0 | 1.4  | 2.9  | 4.3  | 7.2  | 9    | 7.4  | 5    | -2.4 | 3.3  | -7    | -6.2 | -9.7  | -9.7  |  |  |
| Senn HD 650 Or                                                                                                                                                   | -6.7  | -5.3  | -3.9 | -2.7 | -2.3 | -1.7 | -0.2 | 0.6  | 0.8  | 1    | 0.8  | 0.5  | 0.4  | 0.2  | 0.1  | 0.1  | 0.5  | 0 | 1.3  | 2.1  | 3.8  | 6.7  | 9.1  | 5.7  | 5.3  | 2.7  | 0.9  | -7.6  | -7.2 | -4.8  | -12.8 |  |  |
| Senn HD 650 Cr2                                                                                                                                                  | -10   | -8.3  | -6.4 | -5   | -3.9 | -3.7 | -2.7 | -1.7 | -1.4 | -1.4 | -1.6 | -1.7 | -1.8 | -1.7 | -1.8 | -1.4 | -1   | 0 | 1.3  | 2.7  | 4.3  | 7.1  | 9.3  | 6.9  | 5.1  | 0.8  | -0.5 | -6.3  | -9.5 | -11   | -12.2 |  |  |
| Senn-Drop HD 6XX IF                                                                                                                                              | -9.3  | -7.5  | -6   | -4.4 | -3   | -2.4 | -1.3 | 0.2  | 0.6  | 0.9  | 0.9  | 0.5  | 0.2  | -0.1 | 0.3  | -0.2 | 0    | 0 | 1.7  | 2.7  | 3.7  | 6.3  | 10.1 | 7.5  | 2.7  | -2.6 | -5   | -3.2  | -4.8 | -10.9 | -8    |  |  |
| Senn HD 800 Or                                                                                                                                                   | -3.6  | -2.6  | -1.8 | -1.2 | -1   | -1.5 | -0.4 | 0.2  | 0.3  | 0.5  | 0.5  | 0.4  | 0.4  | 0.3  | 0.2  | 0.2  | 0.3  | 0 | -0.4 | -0.3 | 1.8  | 4.9  | 6.9  | 8.5  | 10.2 | 10.2 | 5.8  | -1.5  | -0.2 | -7.2  | -9.1  |  |  |
| Senn HD 800S Or                                                                                                                                                  | -4.1  | -3.3  | -2.6 | -2   | -1.8 | -2   | -1.1 | -0.5 | -0.3 | -0.1 | -0.1 | -0.1 | -0.2 | -0.2 | -0.2 | -0.1 | 0    | 0 | -0.5 | 0.1  | 2.9  | 6.1  | 6.7  | 7.8  | 8    | 8    | 4.2  | -3    | 1.4  | -3    | -11.6 |  |  |
| Senn HE1 Orpheus 2 Or                                                                                                                                            | 1.1   | 1.9   | 2    | 1    | 2.8  | 0.9  | 1    | 0.3  | -0.7 | -1.3 | -1.8 | -1.8 | -1.4 | -1.5 | -1.5 | -1   | -1   | 0 | 0    | -0.8 | 3.4  | 5.6  | 6.7  | 3.9  | 2.9  | 4.7  | 2    | 2.7   | -4.5 | -6.7  | -10.2 |  |  |
| Sony MDR-7506 Or                                                                                                                                                 | -0.2  | 1.4   | 3.4  | 4.8  | 5.5  | 5.2  | 3.8  | 3.4  | 3.8  | 2.6  | -0.1 | 0    | 1.3  | 1.1  | 0.8  | 0.6  | 0    | 0 | 0.7  | 3.2  | 6.5  | 11.1 | 12.6 | 10.8 | 13.2 | 12.8 | 5.7  | 2.4   | -7.2 | -13.3 | -19.3 |  |  |
| Sony WH-1000XM4 Cr2                                                                                                                                              | 8.6   | 9.1   | 9.1  | 8.7  | 8.4  | 7.7  | 7.5  | 8    | 7.7  | 5.8  | 4.1  | 2.4  | 0.9  | -0.8 | 0.7  | 2    | 0.8  | 0 | 1.1  | 2.7  | 1.4  | 5.2  | 7.4  | 9    | 9.8  | 3.7  | 6.9  | -2.1  | 0.7  | -11.5 | -10.8 |  |  |
| ZMF Aeolus Cr                                                                                                                                                    | -3.3  | -2.5  | -2   | -0.6 | -1.7 | -0.7 | -0.7 | -0.8 | -0.8 | -0.9 | -0.8 | -0.6 | -0.3 | -0.2 | -0.5 | -0.8 | -0.1 | 0 | -2   | -1.8 | 1.4  | 4.6  | 3.5  | -8   | -3   | -3   | -1.9 | -2    | -9   | -16.7 | -21   |  |  |
| ZMF Auteur Teak Cr                                                                                                                                               | -5.2  | -3.9  | -2.8 | -2   | -1.6 | -1.8 | -2   | -2.7 | -2.6 | -3.2 | -2.9 | -3.4 | -3.3 | -3.1 | -2.8 | -2.7 | -1.5 | 0 | -0.2 | -0.9 | 1.6  | 7.1  | 7.8  | 1.9  | 3.3  | -3.2 | 2.7  | 1.8   | -5.3 | -1.2  | -5.2  |  |  |
|                                                                                                                                                                  |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |       |      |       |       |  |  |
| Notes:                                                                                                                                                           |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |       |      |       |       |  |  |
| H&M = Hammershoi & Møller, B&K = Brüel & Kjær, Or = Oratory1990, IF = InnerFidelity, Rt = Rtings, Cr = Crinacle's 1st meas. rig, Cr2 = Crinacle's 2nd meas. rig, |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |       |      |       |       |  |  |
| Rslv = Resolve Reviews, HdFi = Head-Fi                                                                                                                           |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |       |      |       |       |  |  |