

# SB Omni Surround 5.1

## RightMark Audio Analyzer test

Testing chain: External loopback (line-out - line-in)

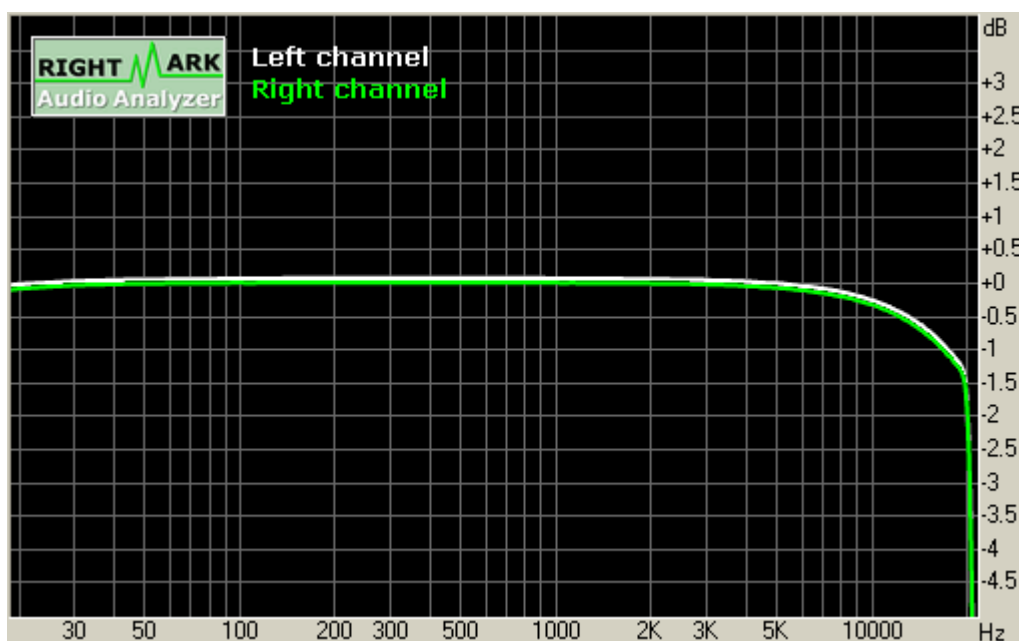
Sampling mode: 24-bit, 44 kHz

### Summary

|  |              |           |
|--|--------------|-----------|
| Frequency response (from 40 Hz to 15 kHz), dB: | +0.07, -0.69 | Good      |
| Noise level, dB (A):                           | -92.3        | Very good |
| Dynamic range, dB (A):                         | 88.9         | Good      |
| THD, %:  | 0.0080       | Very good |
| IMD + Noise, %:                                | 0.016        | Very good |
| Stereo crosstalk, dB:                          | -91.8        | Excellent |
| IMD at 10 kHz, %:                              | 0.015        | Very good |

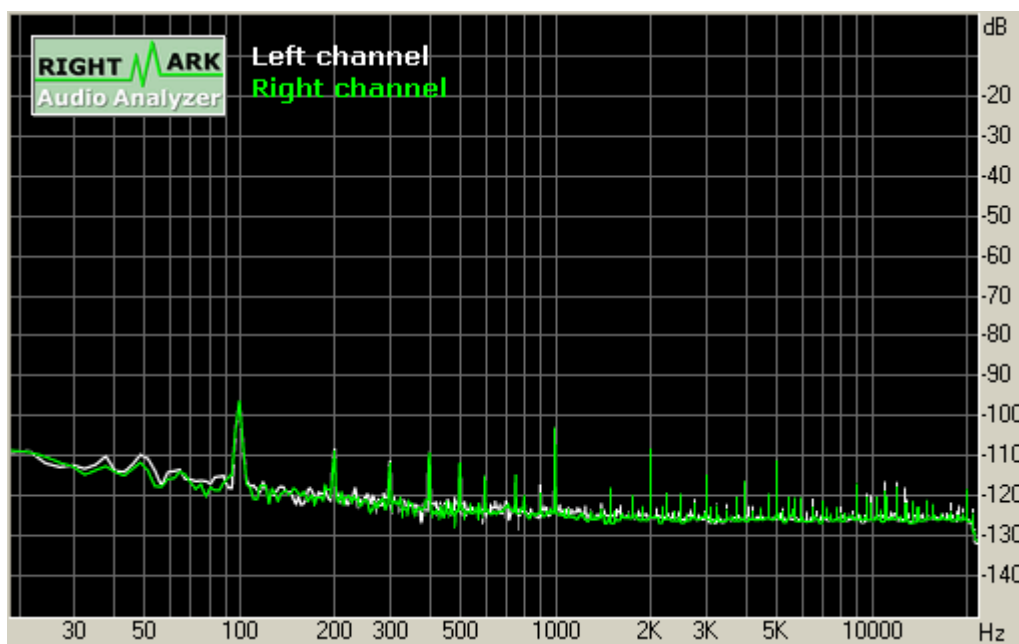
General performance: Very good

### Frequency response



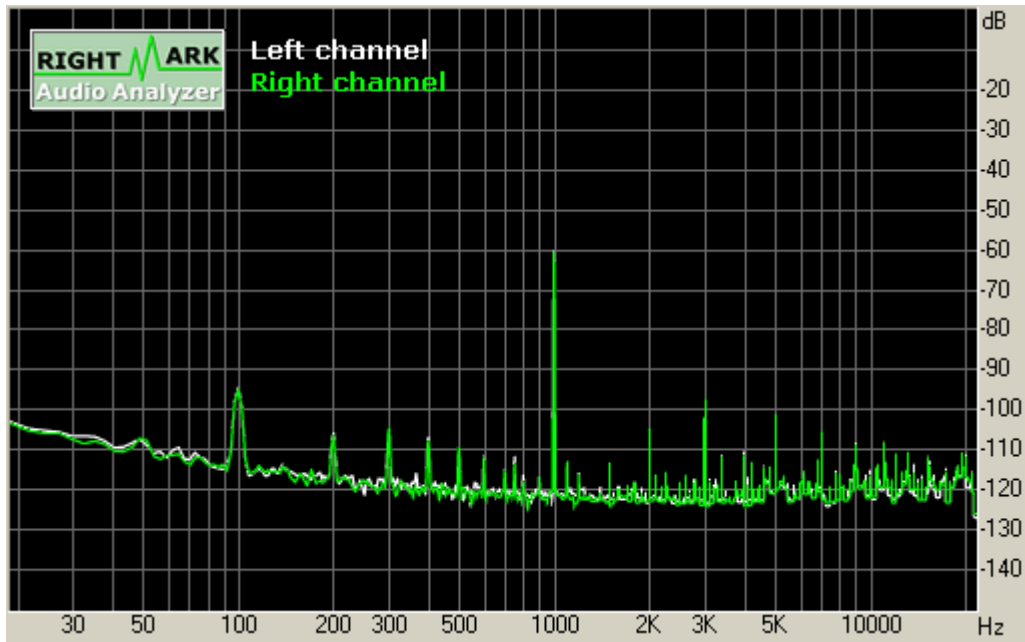
| Frequency range          | Response     |
|--------------------------|--------------|
| From 20 Hz to 20 kHz, dB | -1.43, +0.07 |
| From 40 Hz to 15 kHz, dB | -0.69, +0.07 |

### Noise level



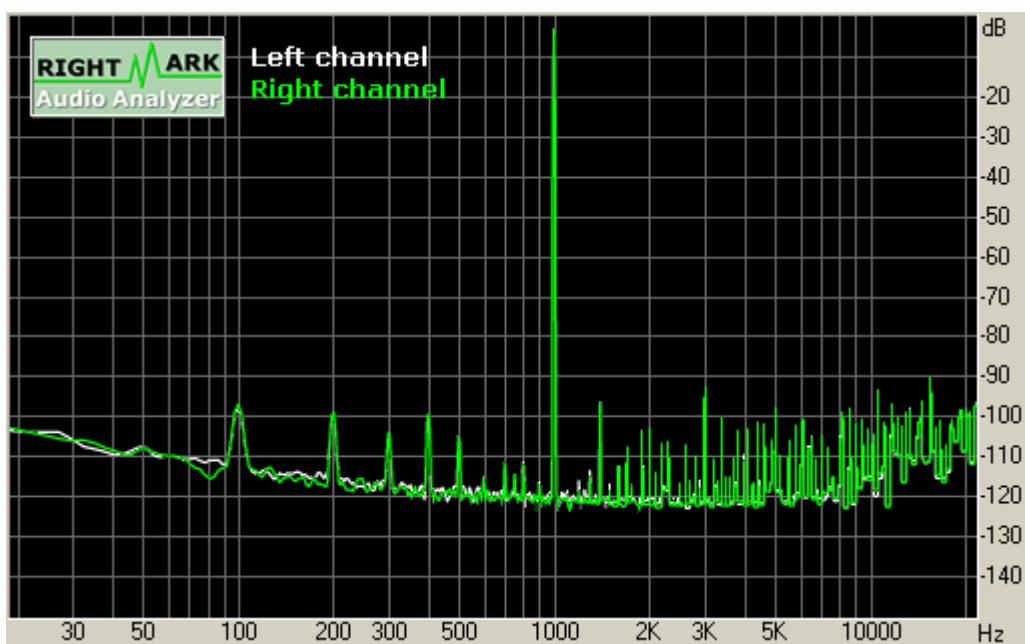
| Parameter                   | Left  | Right |
|-----------------------------|-------|-------|
| RMS power, dB:              | -88.4 | -88.6 |
| RMS power (A-weighted), dB: | -92.0 | -92.3 |
| Peak level, dB FS:          | -74.1 | -74.1 |
| DC offset, %:               | -0.00 | -0.00 |

## Dynamic range



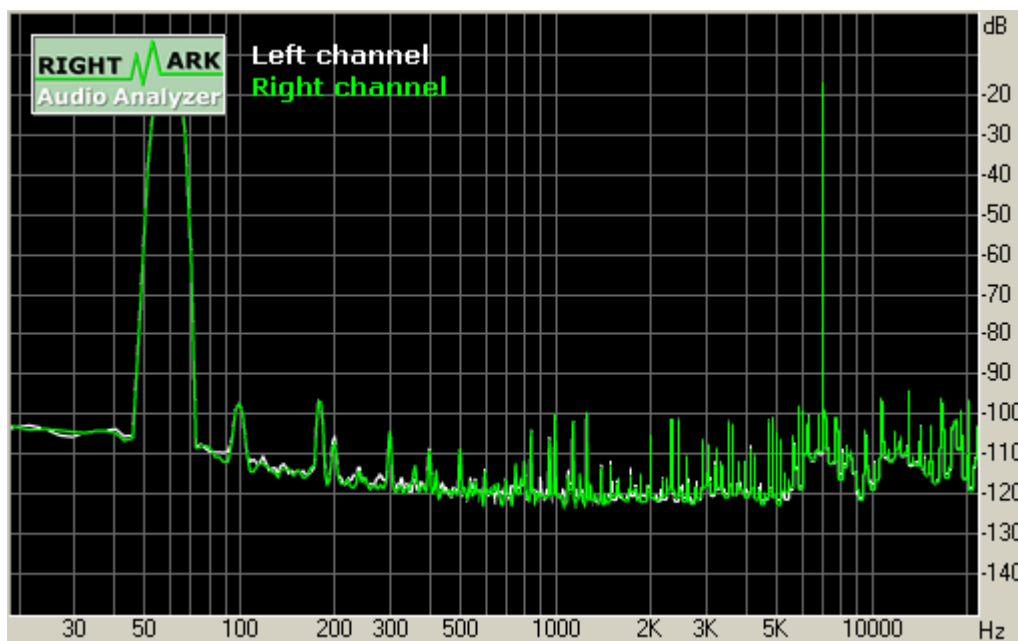
| Parameter                       | Left  | Right |
|---------------------------------|-------|-------|
| Dynamic range, dB:              | +86.5 | +86.9 |
| Dynamic range (A-weighted), dB: | +88.9 | +88.9 |
| DC offset, %:                   | -0.00 | -0.00 |

## THD + Noise (at -3 dB FS)



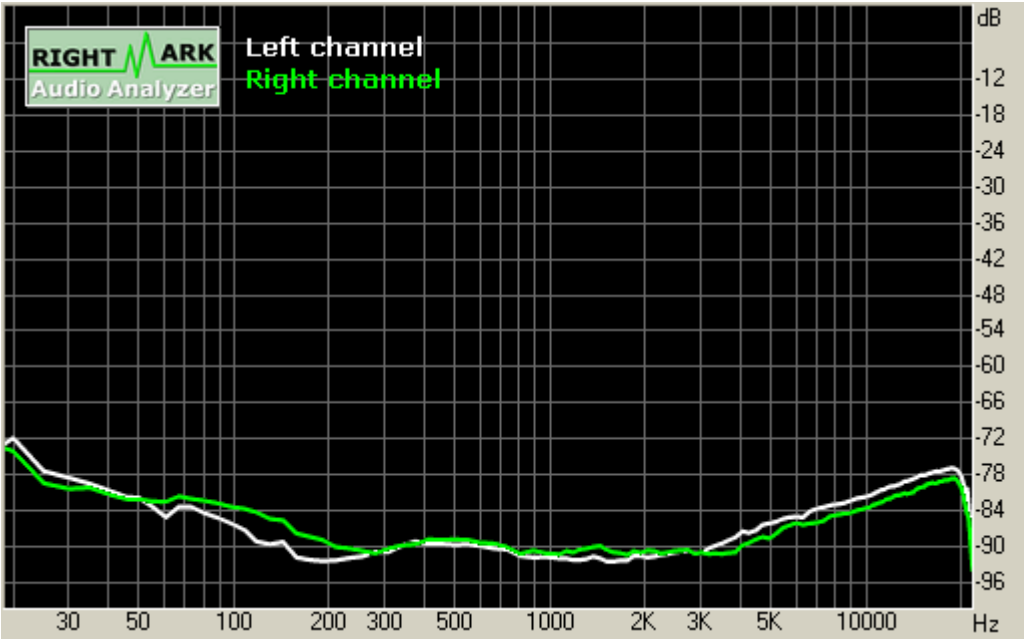
| Parameter                    | Left   | Right  |
|------------------------------|--------|--------|
| THD, %:                      | 0.0080 | 0.0082 |
| THD + Noise, %:              | 0.0163 | 0.0170 |
| THD + Noise (A-weighted), %: | 0.0122 | 0.0122 |

### Intermodulation distortion



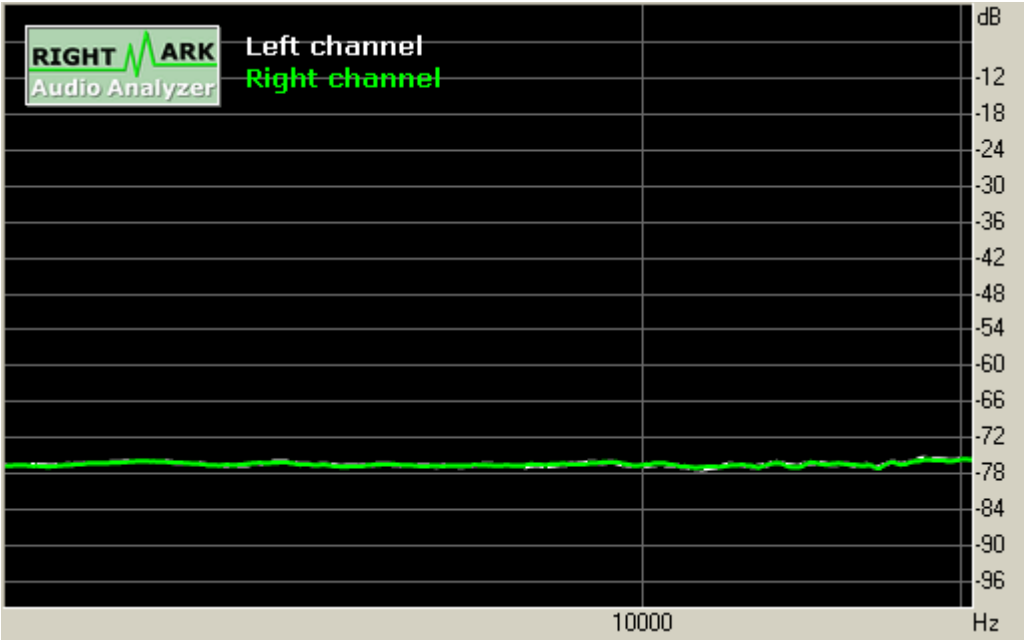
| Parameter                    | Left   | Right  |
|------------------------------|--------|--------|
| IMD + Noise, %:              | 0.0164 | 0.0162 |
| IMD + Noise (A-weighted), %: | 0.0135 | 0.0133 |

Stereo crosstalk



| Parameter                | L <- R | L -> R |
|--------------------------|--------|--------|
| Crosstalk at 100 Hz, dB: | -85    | -82    |
| Crosstalk at 1 kHz, dB:  | -91    | -90    |
| Crosstalk at 10 kHz, dB: | -81    | -83    |

IMD (swept tones)



| Parameter | Left | Right |
|-----------|------|-------|
|           |      |       |

|                           |        |        |
|---------------------------|--------|--------|
| IMD + Noise at 5 kHz, %:  | 0.0151 | 0.0150 |
| IMD + Noise at 10 kHz, %: | 0.0148 | 0.0149 |
| IMD + Noise at 15 kHz, %: | 0.0151 | 0.0151 |

This report was generated by RightMark Audio Analyzer 5.5