

---

Subject: Re: SPL rating affected by horn?

Posted by [Wayne Parham](#) on Sat, 02 Oct 2021 15:16:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

That's exactly right. Horns with narrower patterns deliver higher SPL, and for exactly the reason you describe: Directivity.

And horns that have non-uniform directivity change the response too. That's how horns with collapsing directivity increase on-axis SPL as frequency rises, partially or fully compensating for mass-rolloff. It's also why constant-directivity horns do not compensate for mass rolloff and need "CD equalization."

---