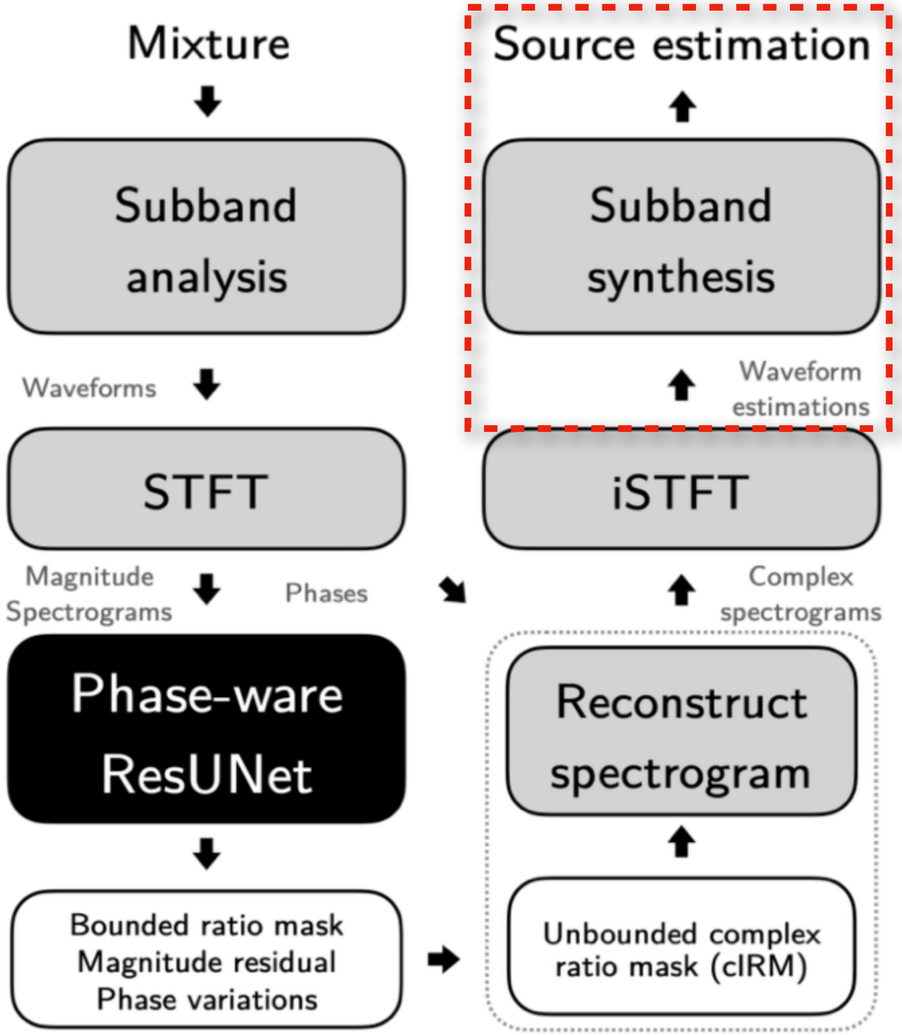
CWS-PResUNet

Step4: Subband synthesis

- Input
  - Subband signal estimation: $\hat{s}'$
  - Analysis filter banks: $g^{(j)}, j = 1,2,3,4$
- Operation
  - $$\hat{s}_{2\times L} = \sum_{j=1}^{4} (\mathrm{US}_4(\hat{s}'_{2\times 4\times \frac{L}{4}}) * g^{(j)}_{4\times 64})$$



Experiment results

Table 2. Evaluation results on MUSDB18HQ test set.

Models	Vocals	Drums	Bass	Other	Average
X-UMX	6.61	6.47	5.43	4.64	5.79
D3Net	7.24	7.01	5.25	4.53	6.01
Demucs	6.89	**6.57**	**6.53**	5.14	6.28
CWS-PResUNet	**8.92**	6.38	5.93	**5.84**	6.77
ByteMSS	8.92	6.57	6.53	5.84	**6.97**

- CWS-PResUNet is advantageous on *vocals* tracks.
- We combine Demucs and CWS-PResUNet for our final submission, ByteMSS.