



**Appendix A. Volume Control Evaluation Results**

**<Evaluation results for KDB 285076 D05 2.b>**



**#31 GSM850 AMR NB 4.75kbps**

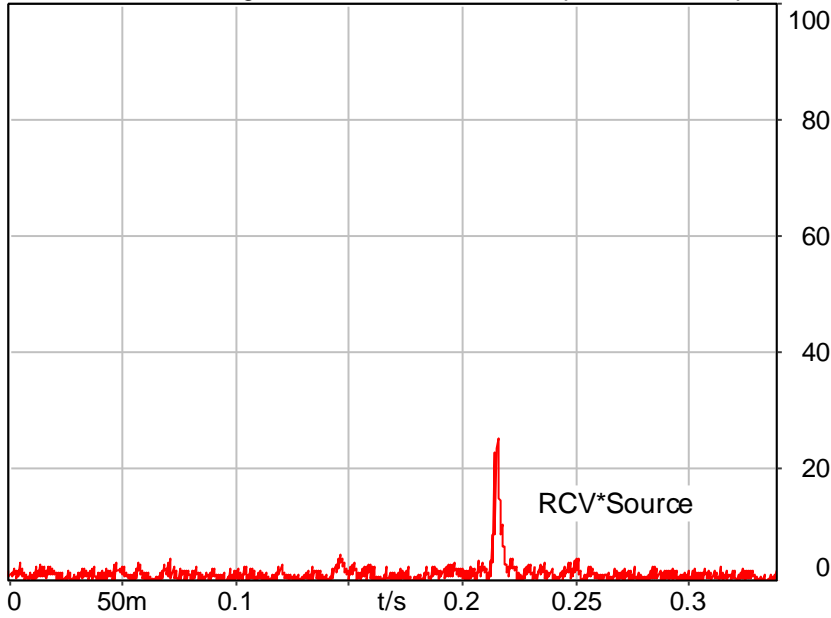
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	215.6
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.46
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	88.75



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



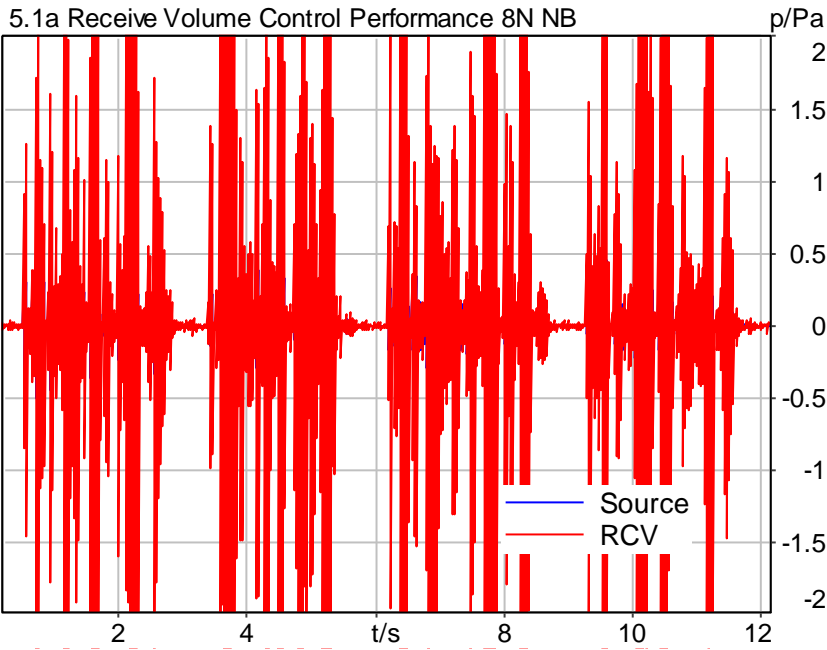
Delay (Cross): 215.6 ms

10/12/2023 1:00 PM ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.46 dB[SPL], Act.: 52.19% Ok

Ok

10/12/2023 1:00 PM ACQUA 5.1.200

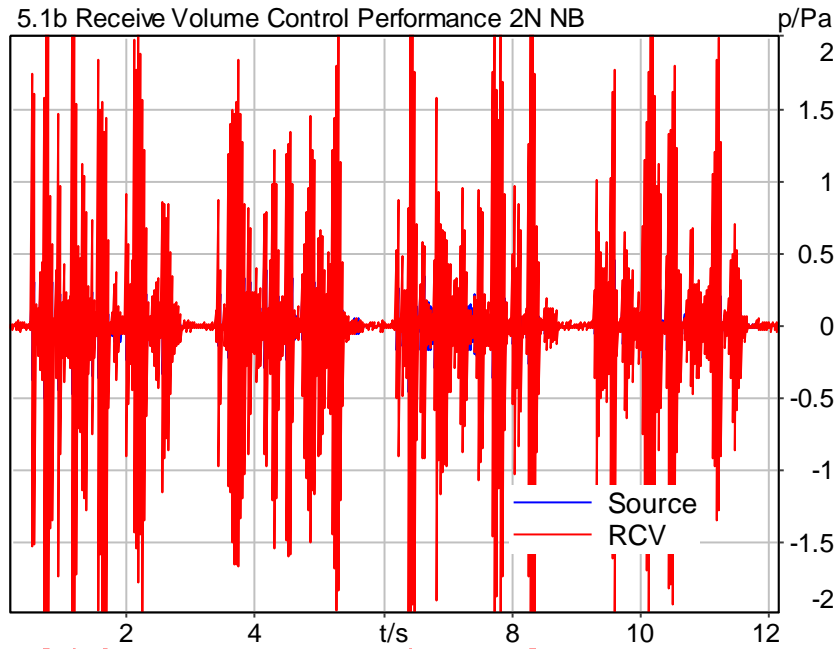
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.75 dB[SPL], Act.: 22.85% Ok

Ok

10/12/2023 1:01 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	76.00 dB20uPa



**#32 GSM1900 AMR WB 6.60kbps**

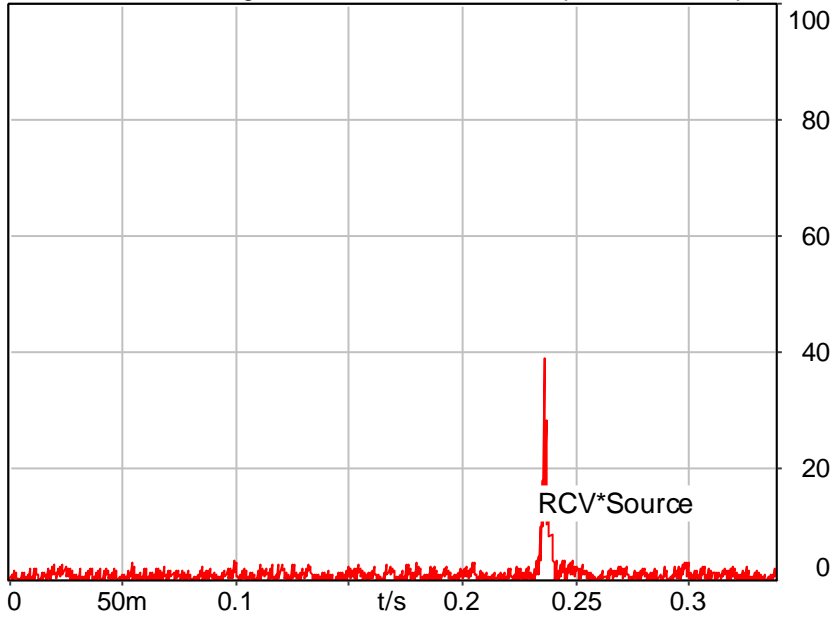
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	237.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.24
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.44



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



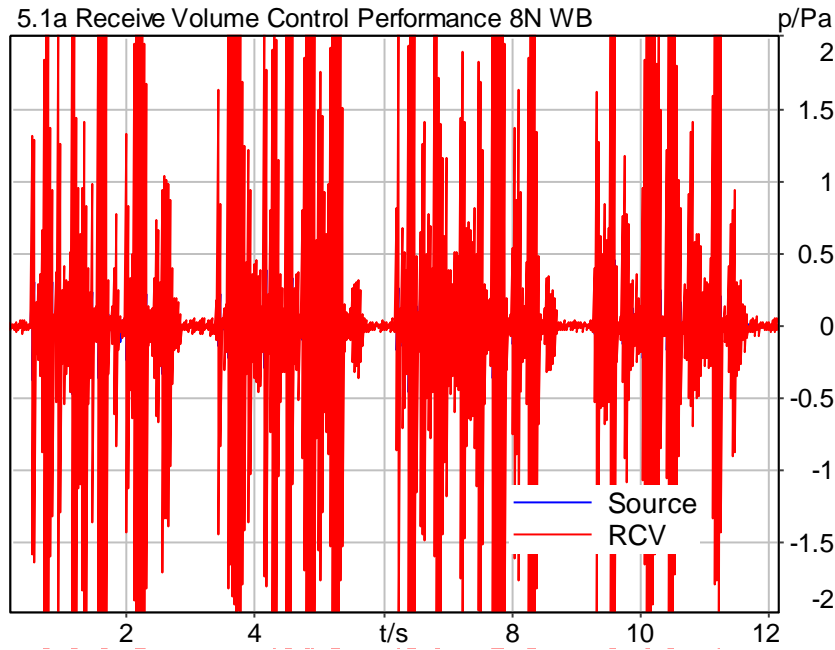
Delay (Cross): 237.1 ms

10/12/2023 2:31 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.24 dB[SPL], Act.: 56.58% Ok

Ok

10/12/2023 2:31 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

Limits

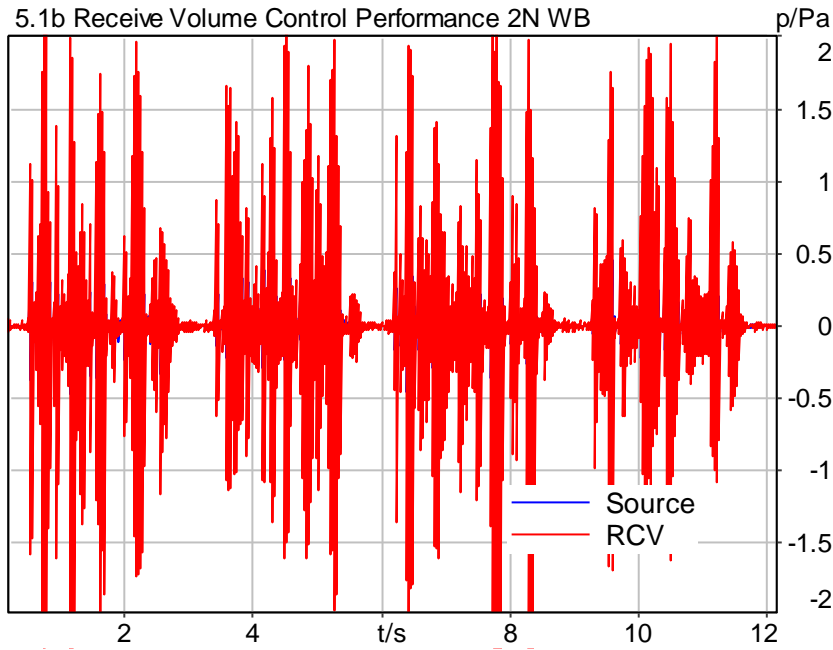
	<b>lower</b>
Run 1	88.00 dB20uPa





### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.44 dB[SPL], Act.: 31.13% Ok

Ok

10/12/2023 2:32 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	lower
Run 1	76.00 dB20uPa



**#33 WCMDA II AMR NB 12.2kbps**

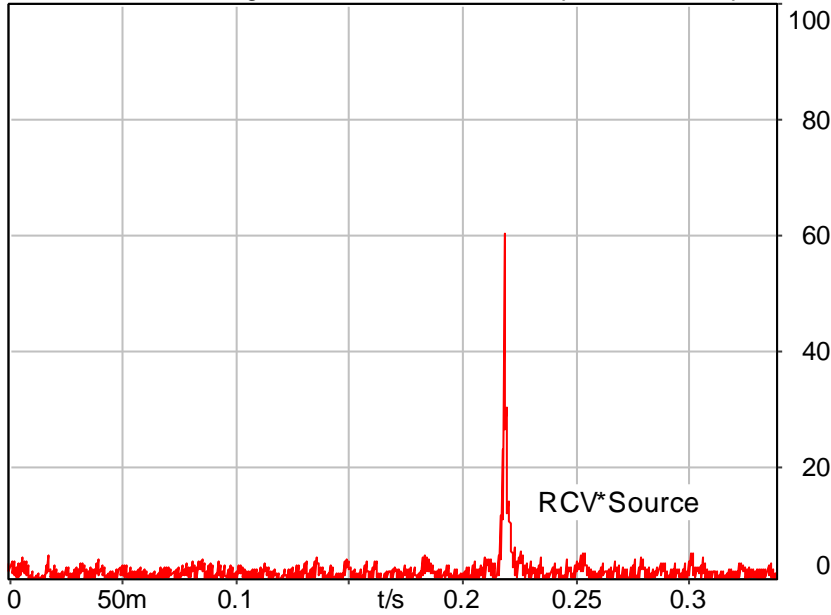
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	218.5
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.38
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	88.13



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope | %



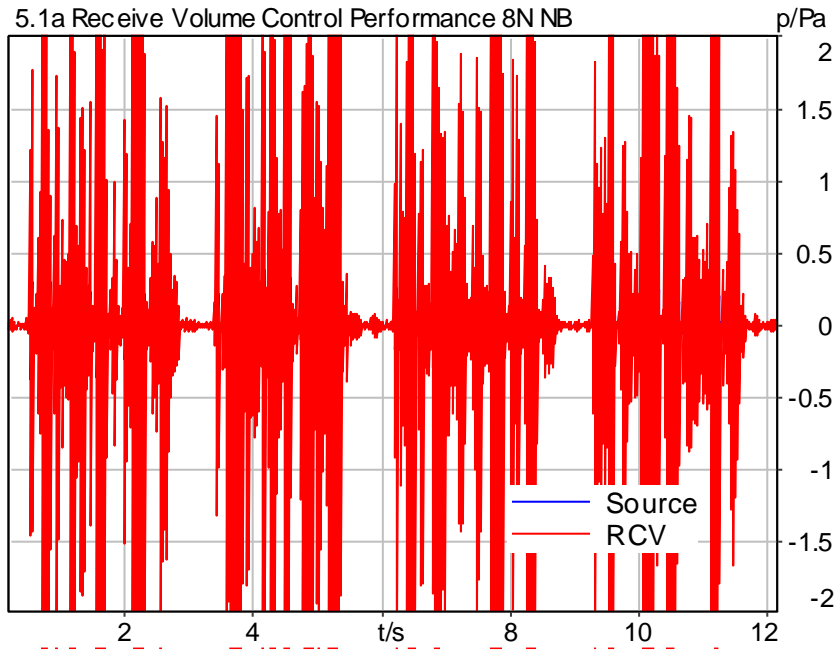
Delay (Cross): 218.5 ms

9/4/2023 12:19 PM ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 90.38 dB[SPL], Act.: 57.40% Ok

Ok

9/4/2023 12:19 PM ACQUA 5.1.200

#### Limits

	lower
Run 1	88.00 dB20uPa



**#34 WCDMA IV AMR NB 4.75kbps**

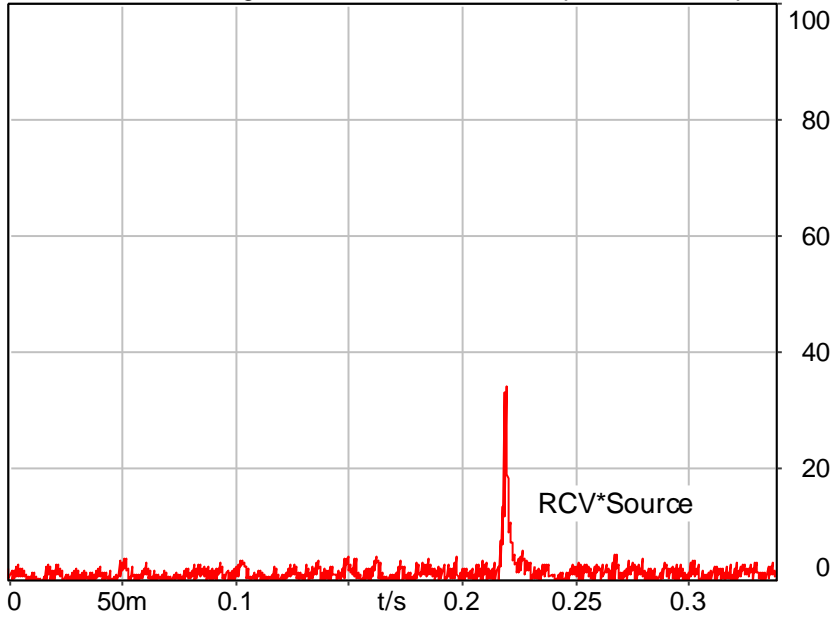
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	219.2
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.00
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	87.07



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



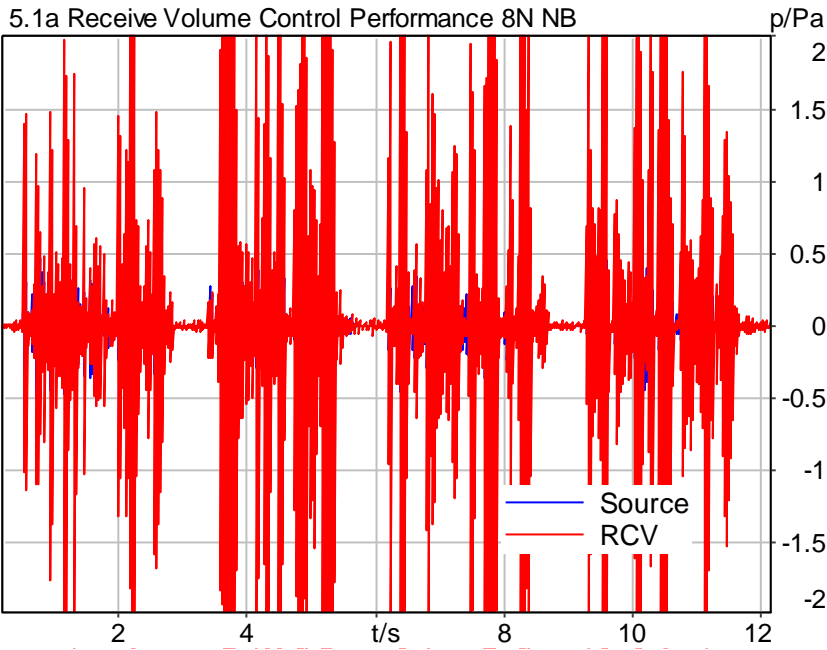
Delay (Cross): 219.2 ms

10/12/2023 3:44 PM ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.00 dB[SPL], Act.: 45.11% Ok

Ok

10/12/2023 3:45 PM ACQUA 5.1.200

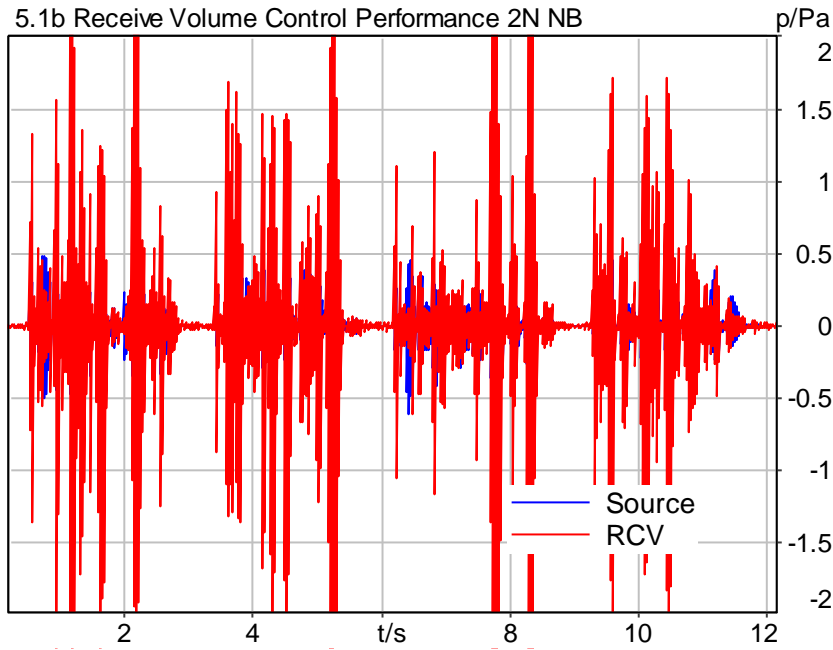
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 87.07 dB[SPL], Act.: 27.37% Ok

Ok

10/12/2023 3:45 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

Limits

	lower
Run 1	76.00 dB20uPa





**#35 WCDMA V AMR WB 6.60kbps**

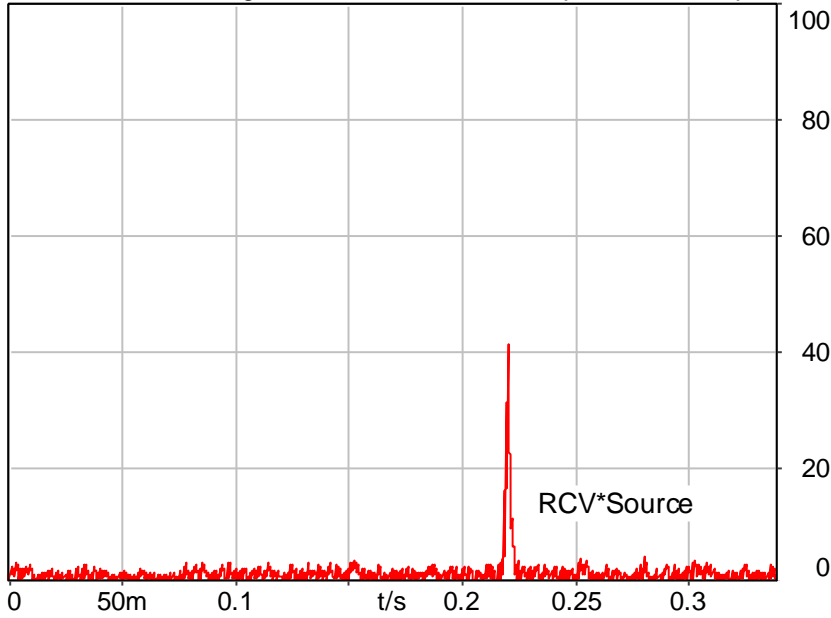
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	220.2
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.56
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.61



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



Delay (Cross): 220.2 ms

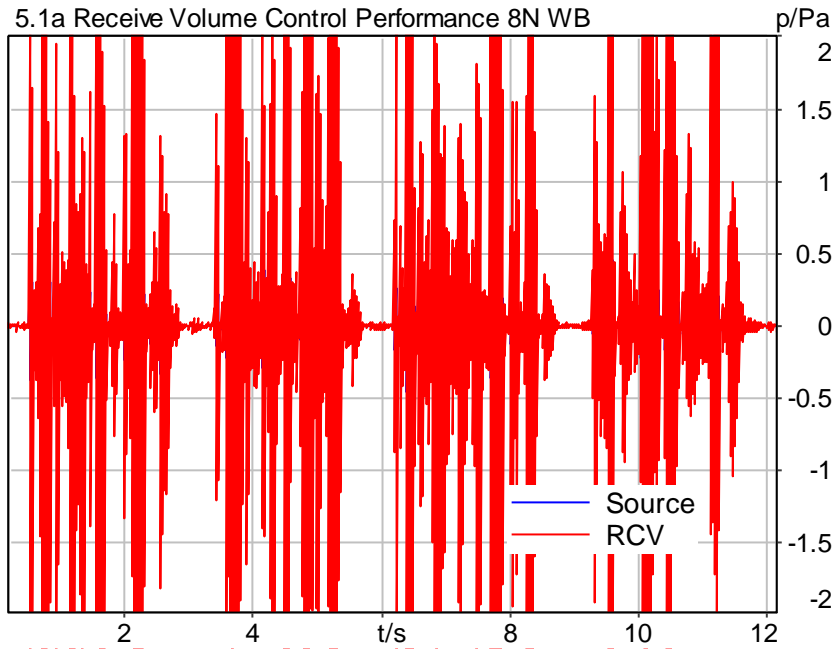
10/12/2023 4:15 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.56 dB[SPL], Act.: 54.93% Ok

Ok

10/12/2023 4:15 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

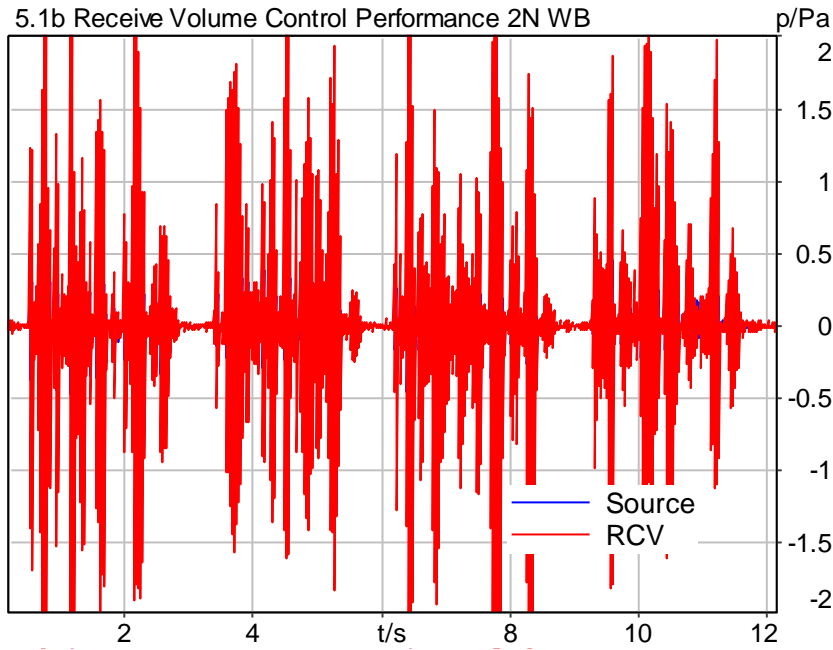
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.61 dB[SPL], Act.: 22.77% Ok

Ok

10/12/2023 4:16 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

Limits

	<b>lower</b>
Run 1	76.00 dB20uPa



**#36 LTE Band 7 EVS NB 5.9kbps**

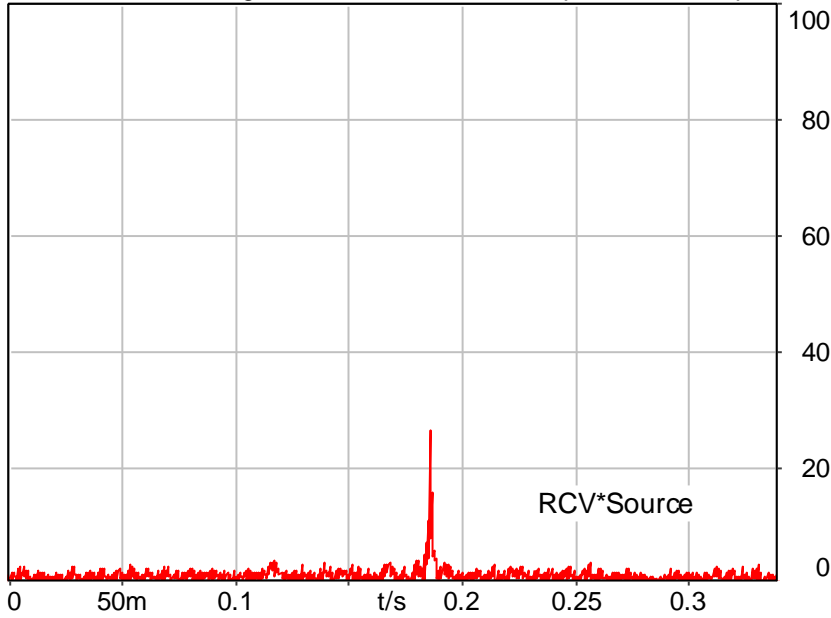
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	186.6
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.76
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	87.90



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



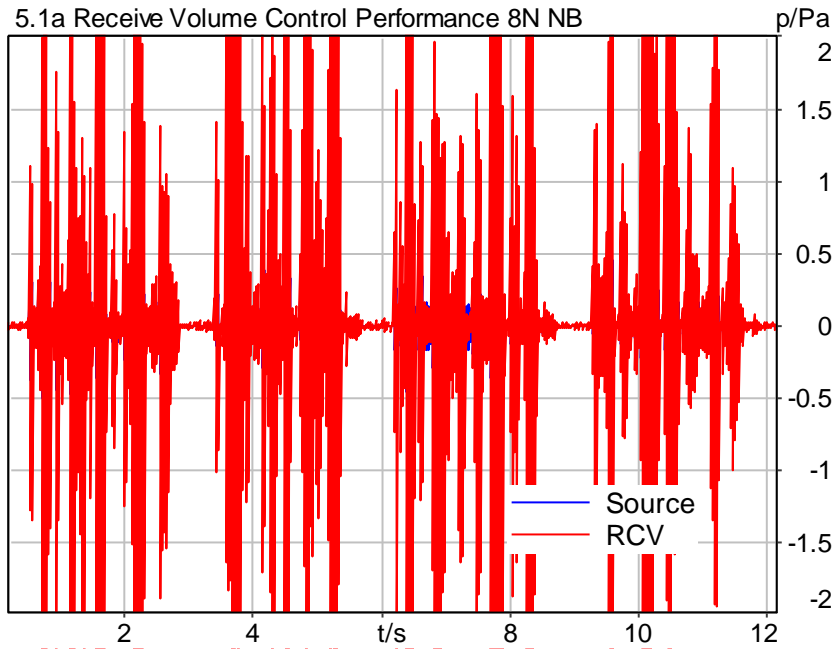
Delay (Cross): 186.6 ms

10/12/2023 7:48 PM ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.76 dB[SPL], Act.: 50.00% Ok

Ok

10/12/2023 7:48 PM ACQUA 5.1.200

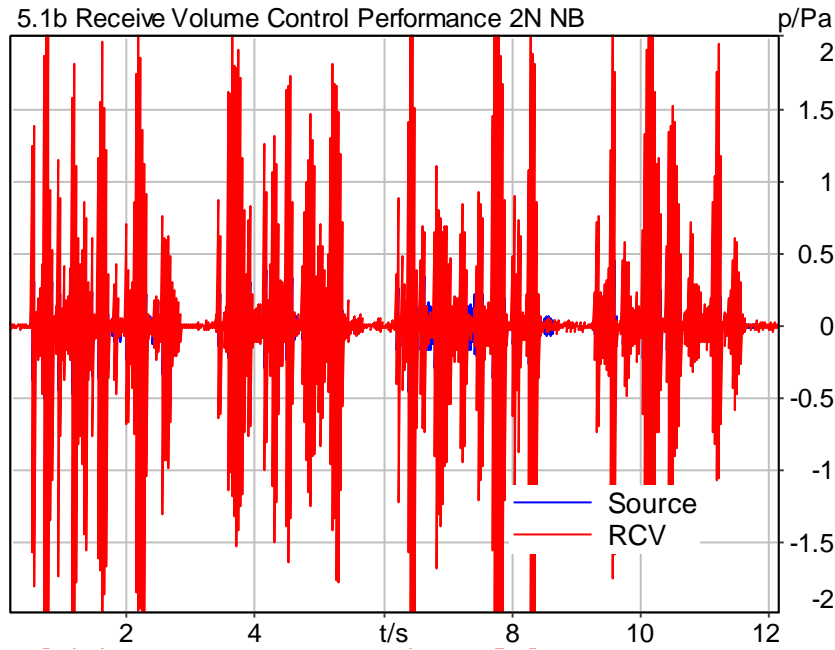
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 87.90 dB[SPL], Act.: 28.39% Ok

Ok

10/12/2023 7:49 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa





**#37 LTE Band 12 AMR WB 6.60kbps**

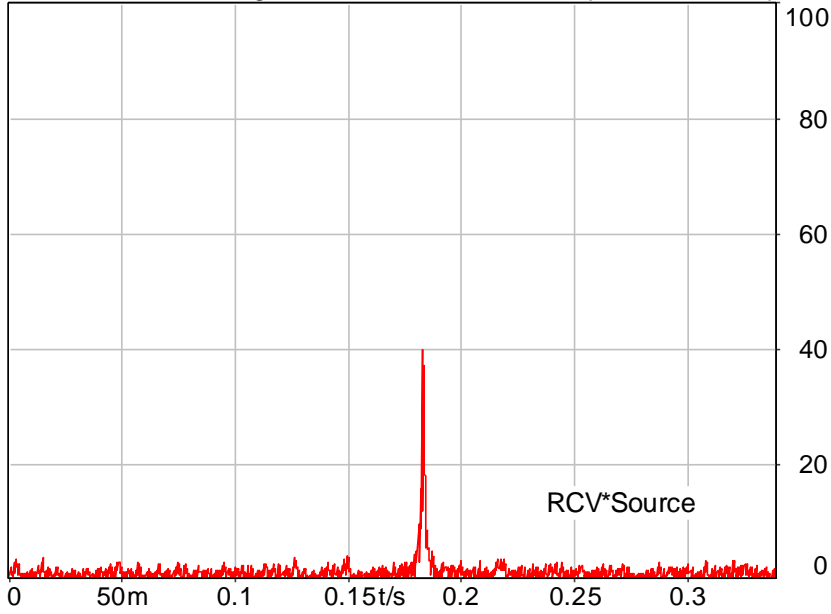
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	183.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.47
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.42



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



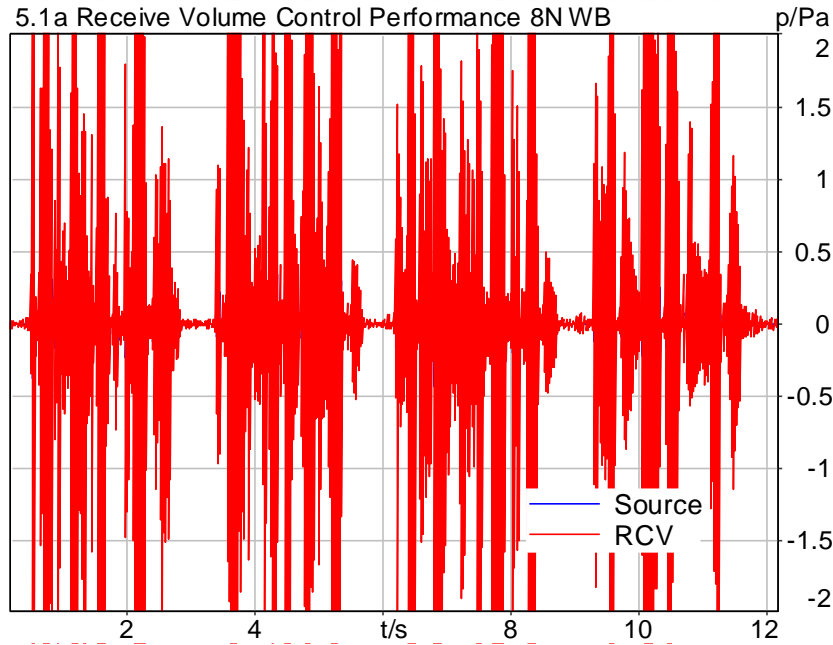
Delay (Cross): 183.1 ms

2023/10/18 下午 06:50 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 90.47 dB[SPL], Act.: 56.98% Ok

Ok

2023/10/18 下午 06:50 ACQUA 5.1.200

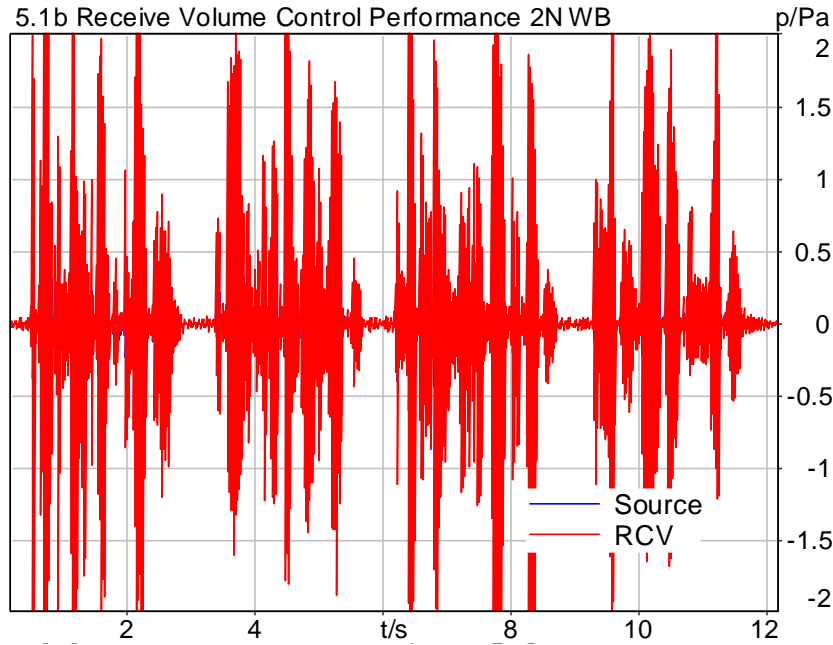
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.42 dB[SPL], Act.: 36.53% Ok

Ok

2023/10/18 下午 06:51 ACQUA 5.1.200

Limits

	lower
Run 1	76.00 dB20uPa



**#38 LTE Band 13 EVS NB 5.9kbps**

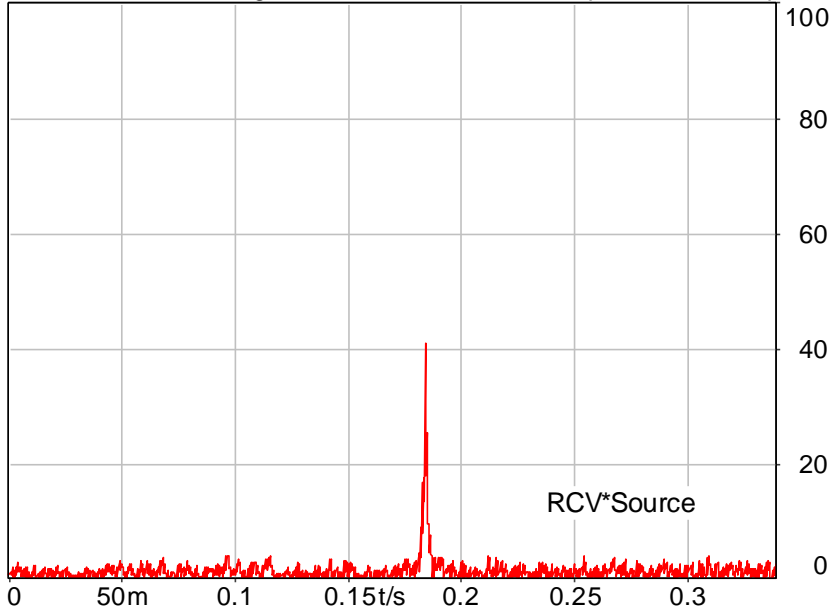
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	184.3
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.58
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	87.54



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %

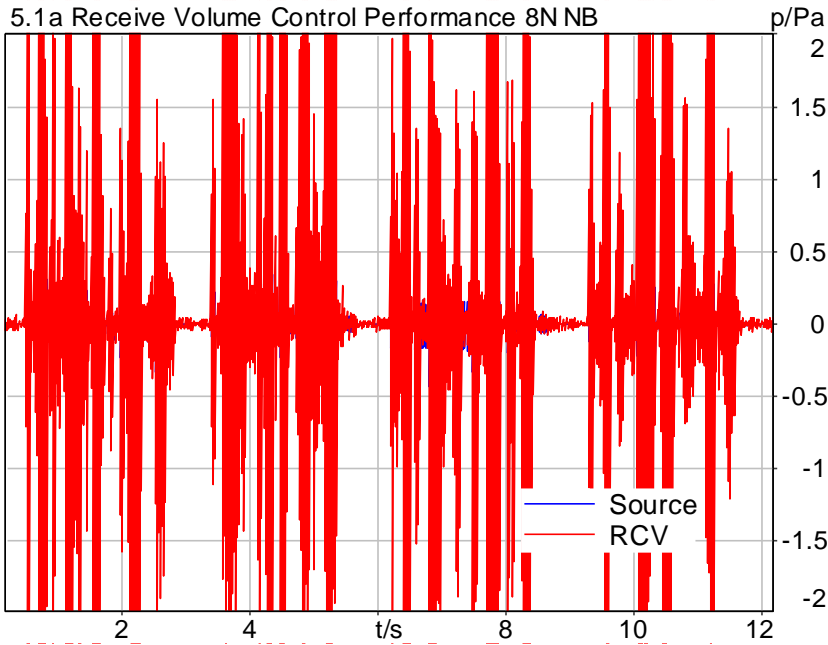


Delay (Cross): 184.3 ms

2023/10/18 下午 06:33 ACQUA 5.1.200

### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 90.58 dB[SPL], Act.: 57.13% Ok

**Ok**

2023/10/18 下午 06:34 ACQUA 5.1.200

**Limits**

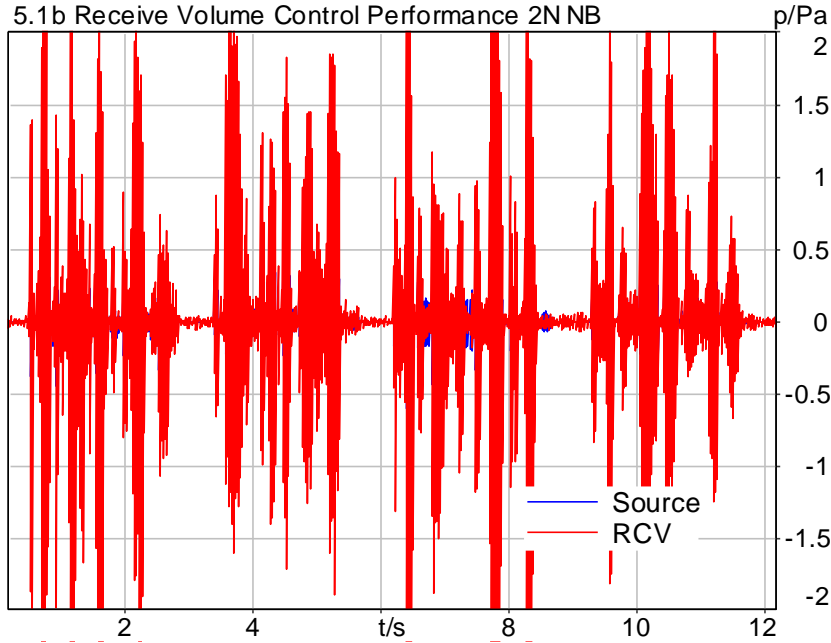
	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1b Receive Volume Control Performance 2N NB



Speech Level RCV: 87.54 dB[SPL], Act.: 36.55% Ok

Ok

2023/10/18 下午 06:34 ACQUA 5.1.200

Limits

	lower
Run 1	76.00 dB20uPa





**#39 LTE Band 14 EVS WB 5.9kbps**

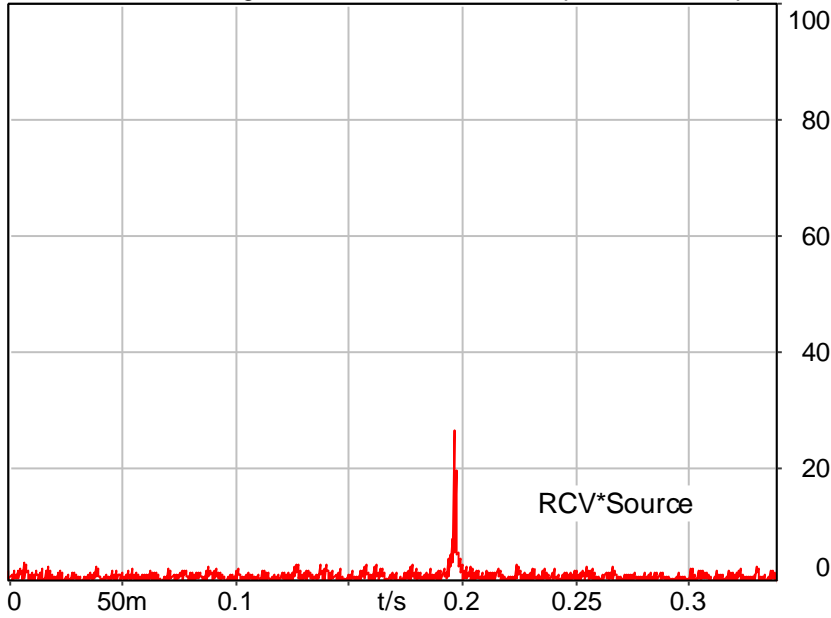
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	196.9
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.22
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.64



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



Delay (Cross): 196.9 ms

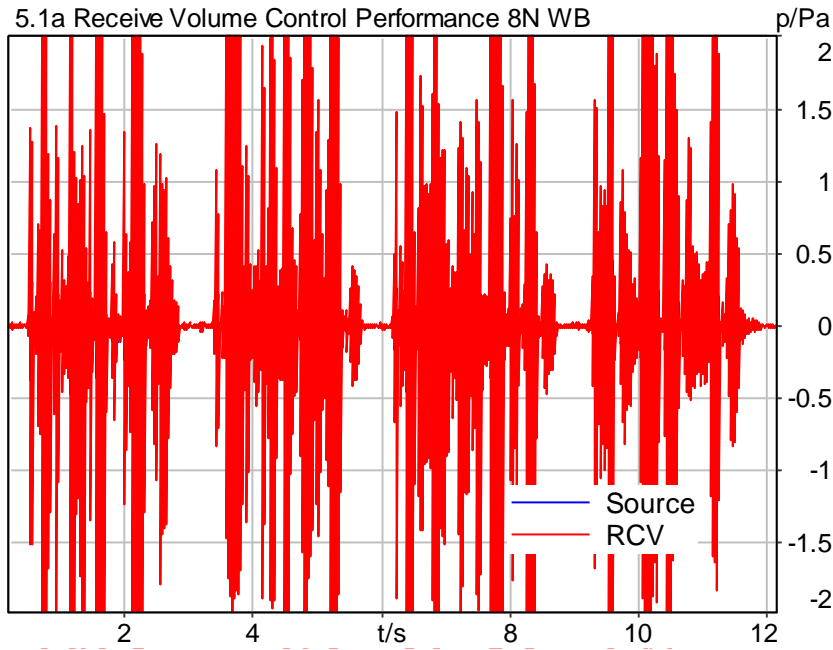
10/15/2023 12:12 AM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.22 dB[SPL], Act.: 56.84% Ok

Ok

10/15/2023 12:13 AM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

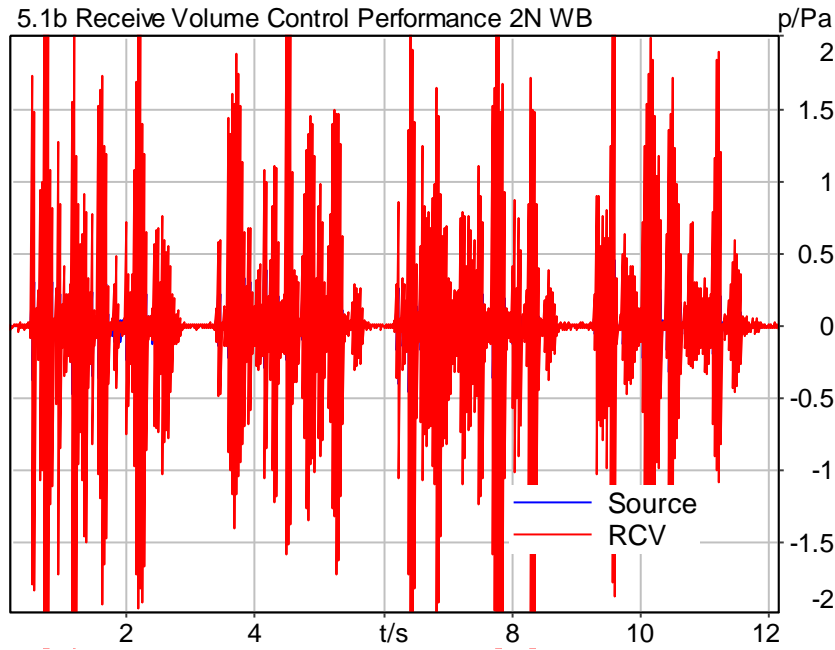
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.64 dB[SPL], Act.: 29.54% Ok

Ok

10/15/2023 12:14 AM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#40 LTE Band 25 AMR WB 6.60kbps**

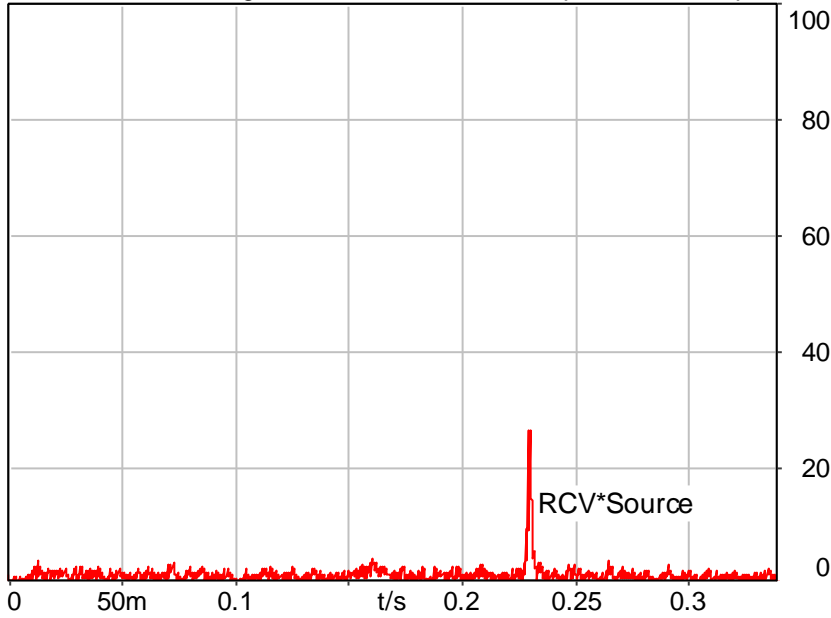
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	230.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.93
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.02



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



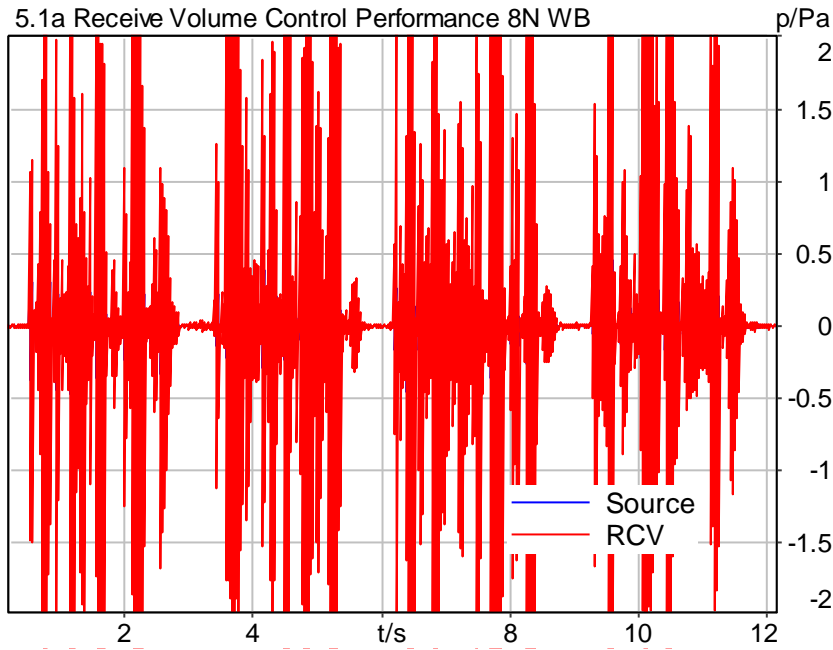
Delay (Cross): 230.1 ms

10/14/2023 10:55 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.93 dB[SPL], Act.: 49.72% Ok

Ok

10/14/2023 10:55 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

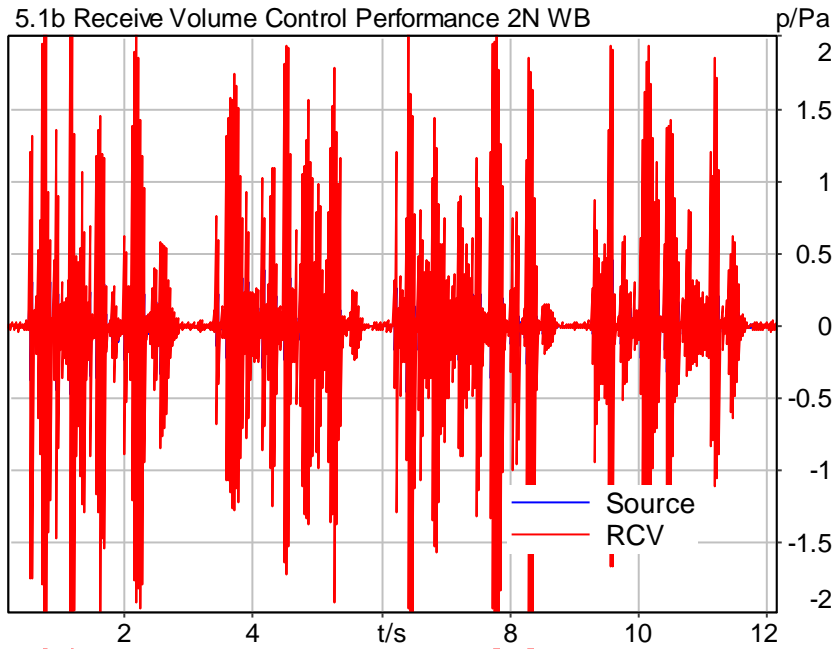
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.02 dB[SPL], Act.: 35.70% Ok

Ok

10/14/2023 10:56 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	lower
Run 1	76.00 dB20uPa





**#41 LTE Band 26 EVS WB 5.9kbps**

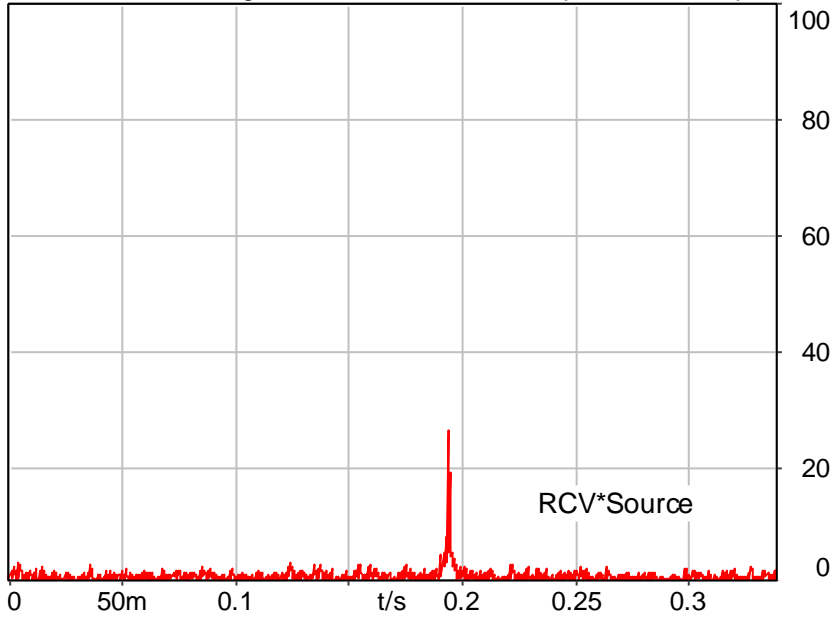
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	194.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.11
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.95



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



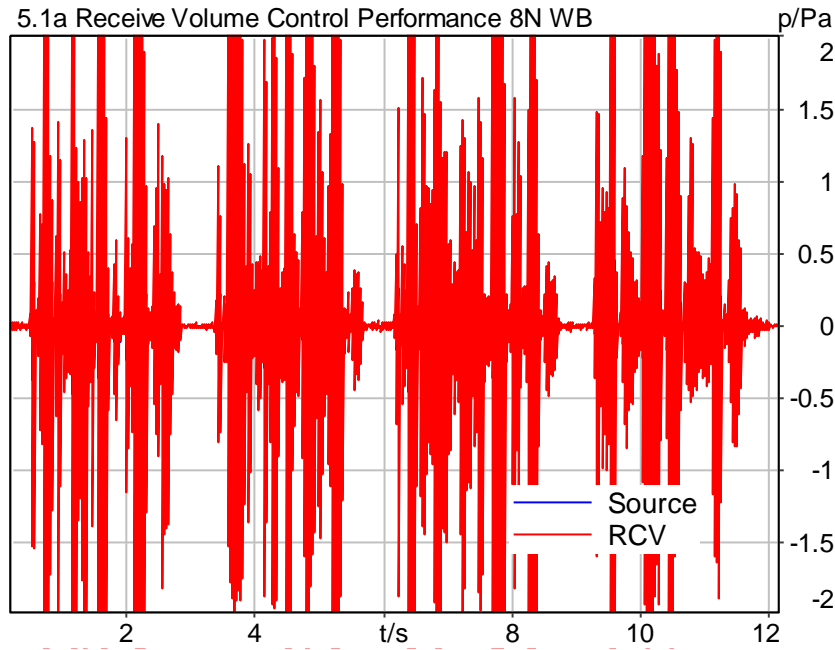
Delay (Cross): 194.1 ms

10/14/2023 9:54 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.11 dB[SPL], Act.: 56.96% Ok

Ok

10/14/2023 9:54 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

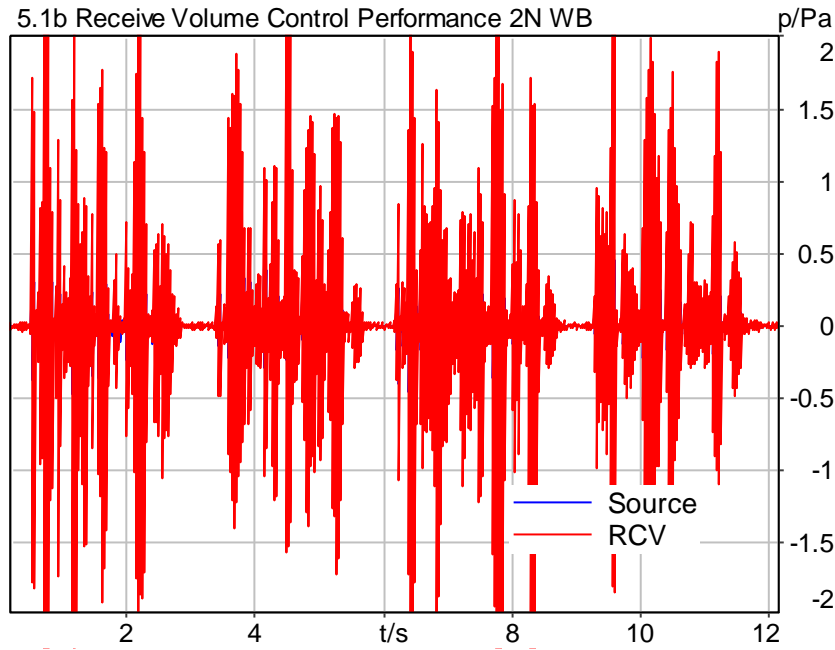
Limits

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.95 dB[SPL], Act.: 28.37% Ok

Ok

10/14/2023 9:55 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#42 LTE Band 30 EVS WB 24.4kbps**

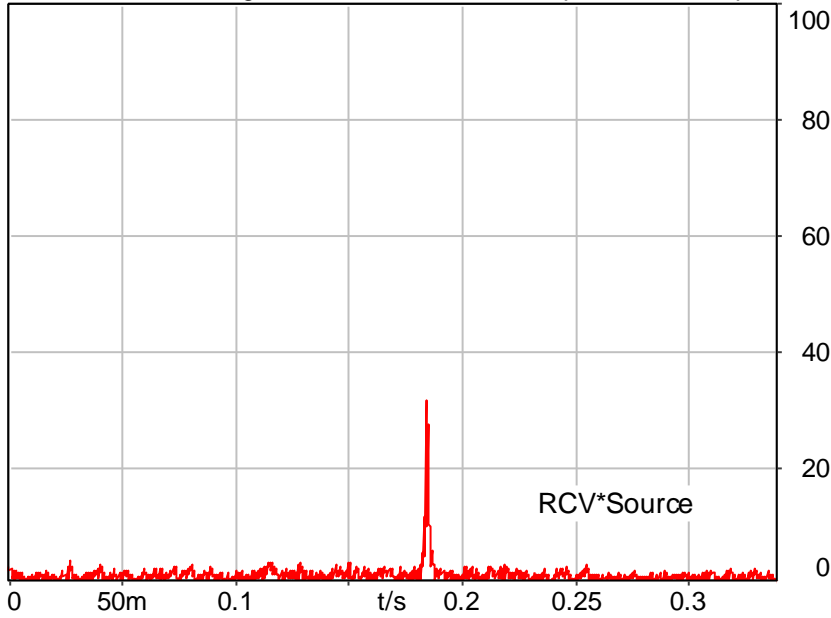
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	185.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.77
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.55



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



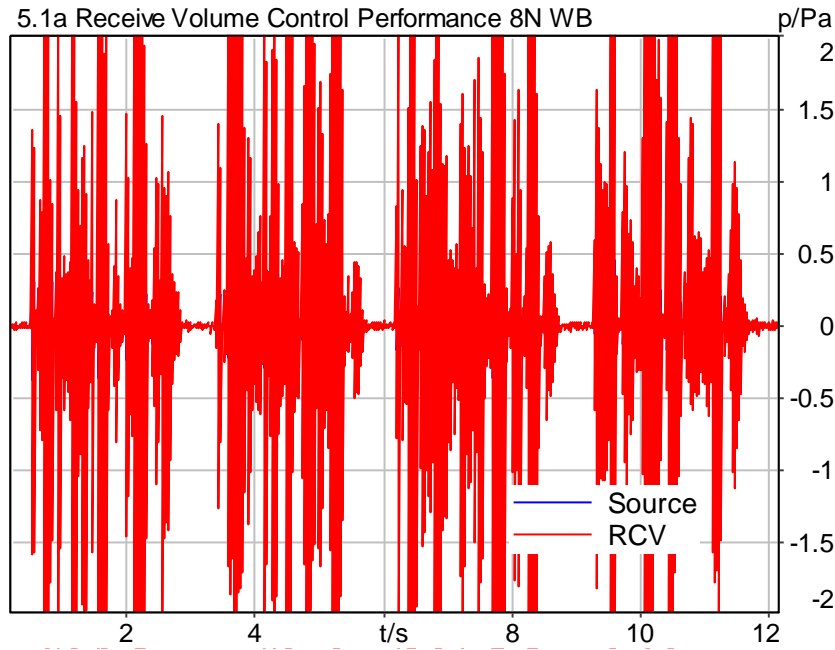
Delay (Cross): 185.0 ms

10/11/2023 1:00 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.77 dB[SPL], Act.: 56.01% Ok

Ok

10/11/2023 1:00 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

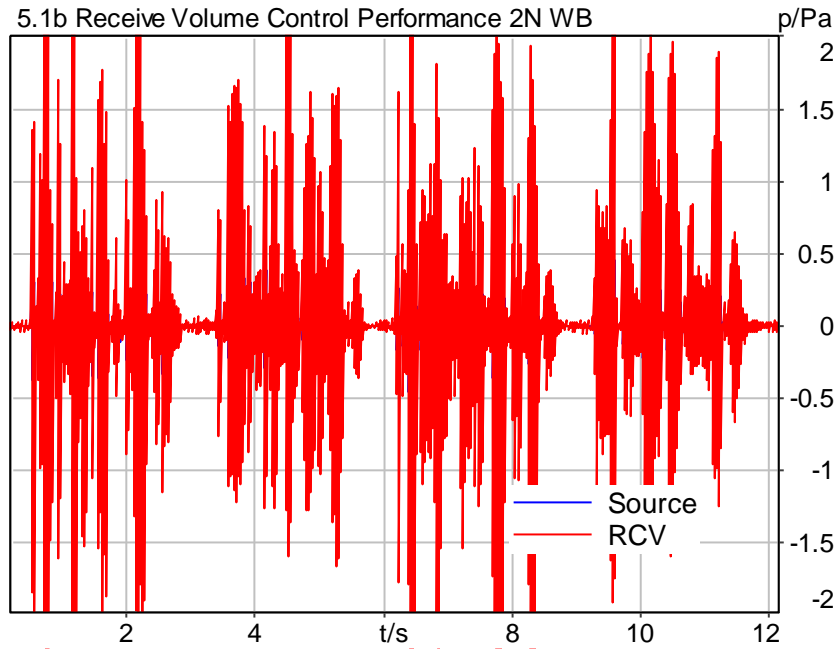
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.55 dB[SPL], Act.: 35.10% Ok

Ok

10/11/2023 1:01 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

Limits

	<b>lower</b>
Run 1	76.00 dB20uPa





**#43 LTE Band 41 EVS WB 24.4kbps**

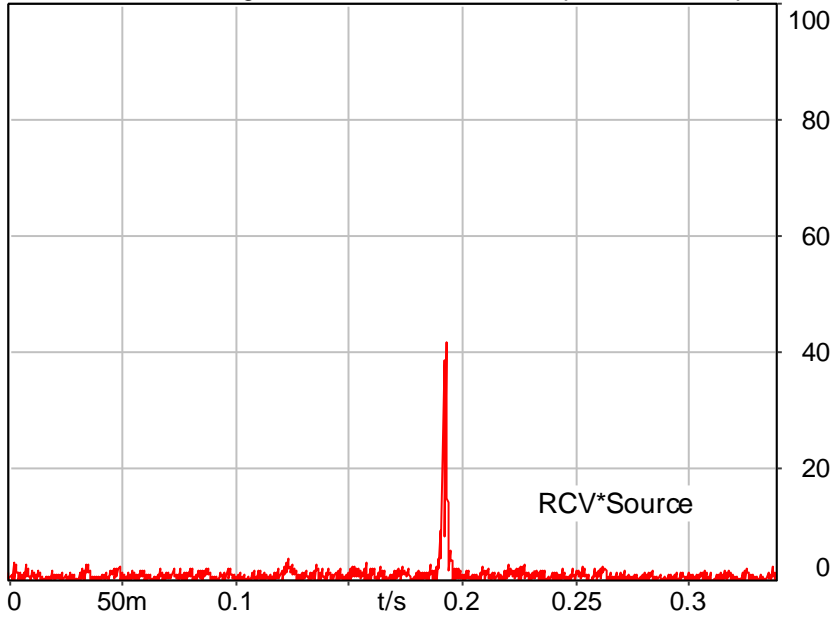
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	192.6
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.49
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.50



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



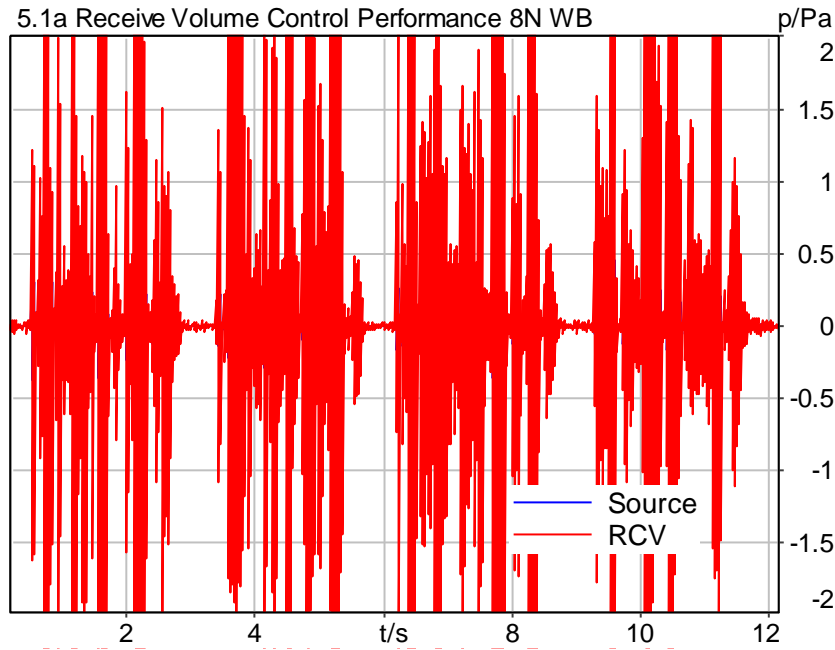
Delay (Cross): 192.6 ms

10/11/2023 5:12 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.49 dB[SPL], Act.: 58.45% Ok

Ok

10/11/2023 5:12 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

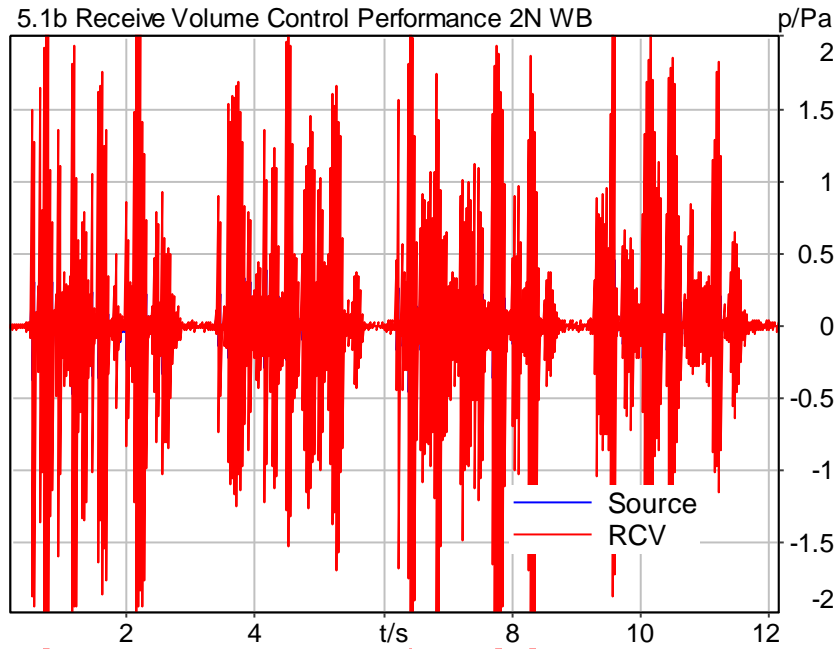
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.50 dB[SPL], Act.: 33.43% Ok

Ok

10/11/2023 5:13 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#44 LTE Band 48 EVS WB 24.4kbps**

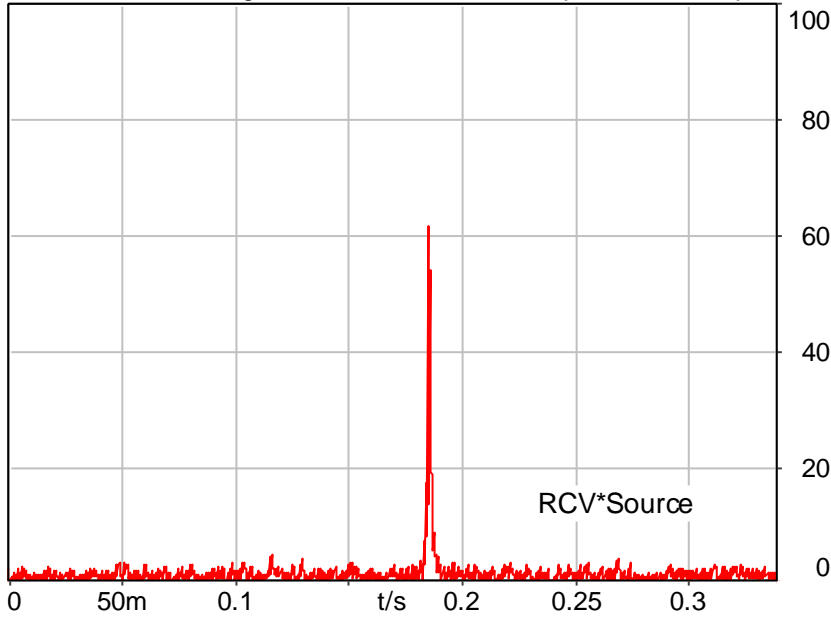
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	186.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.73
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.65



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



Delay (Cross): 186.1 ms

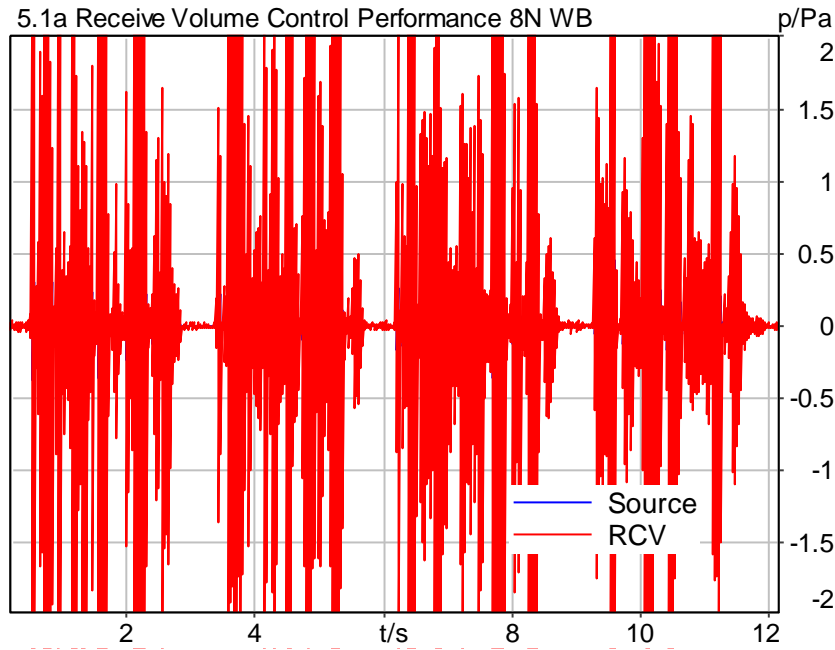
10/12/2023 9:02 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.73 dB[SPL], Act.: 59.95% Ok

Ok

10/12/2023 9:02 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

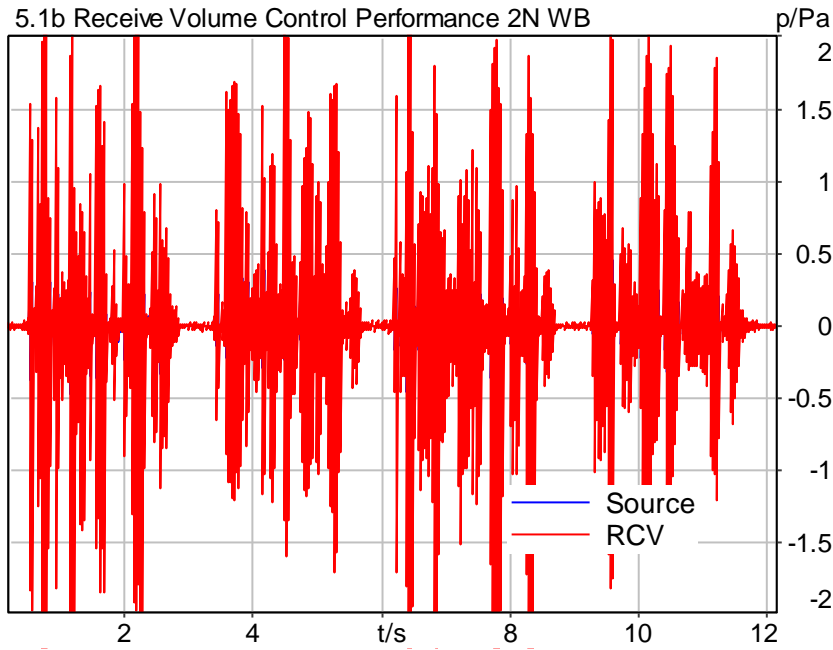
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.65 dB[SPL], Act.: 31.66% Ok

Ok

10/12/2023 9:03 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa





**#45 LTE Band 66 EVS WB 5.9kbps**

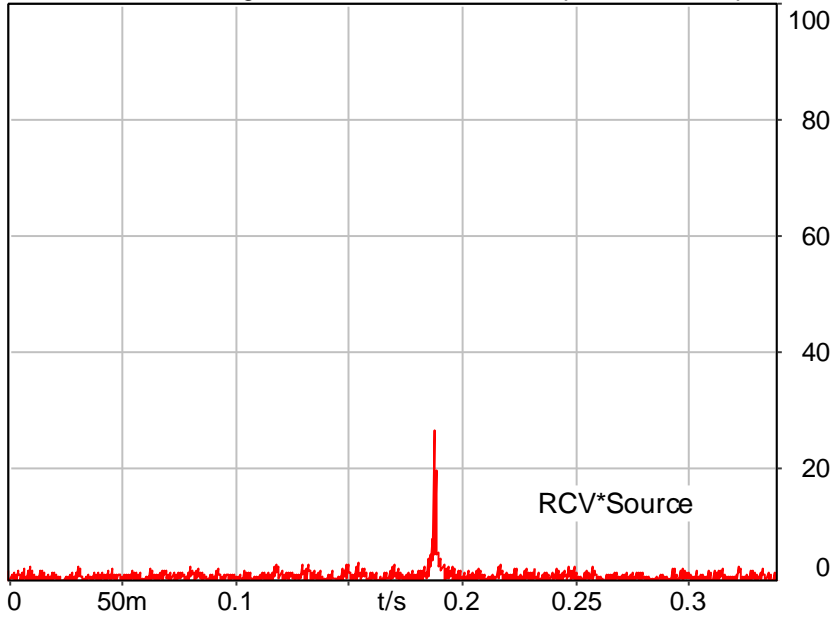
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	188.6
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.39
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.80



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



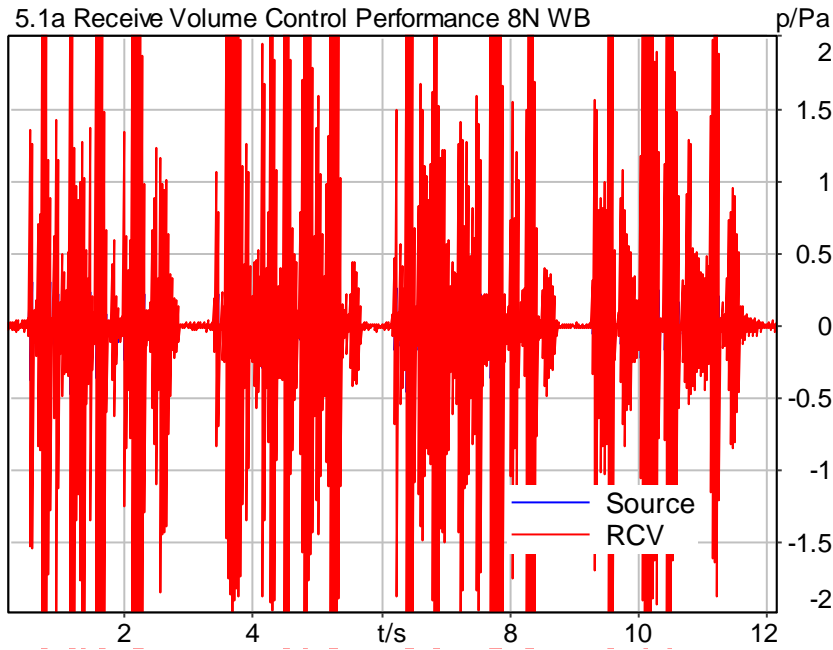
Delay (Cross): 188.6 ms

10/14/2023 6:40 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.39 dB[SPL], Act.: 53.57% Ok

Ok

10/14/2023 6:40 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

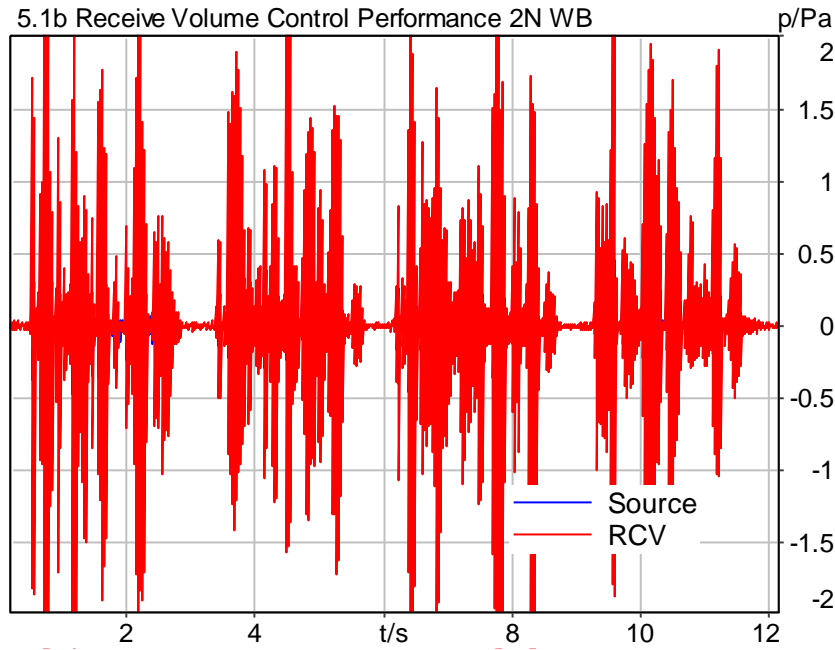
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.80 dB[SPL], Act.: 29.44% Ok

Ok

10/14/2023 6:41 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#46 LTE Band 71 AMR WB 6.60kbps**

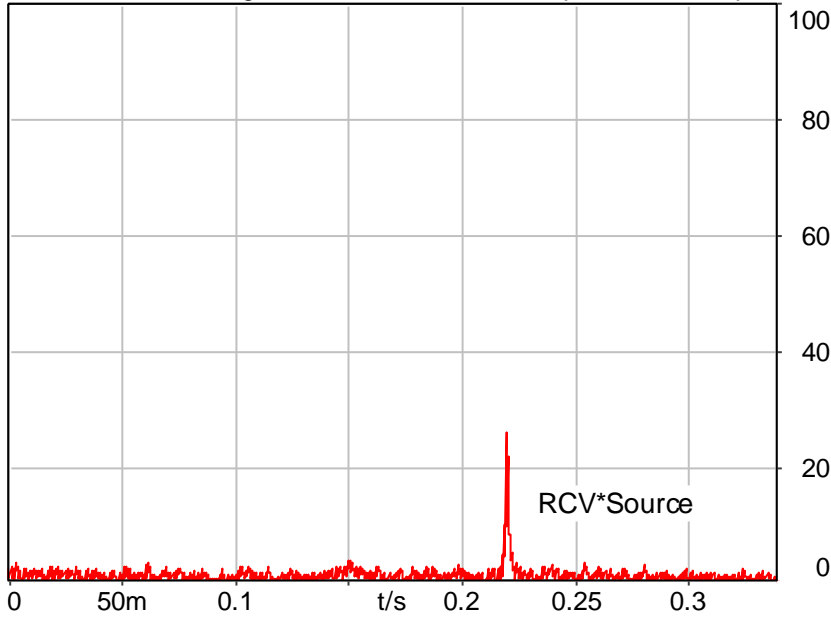
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	219.8
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.60
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.09



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



Delay (Cross): 219.8 ms

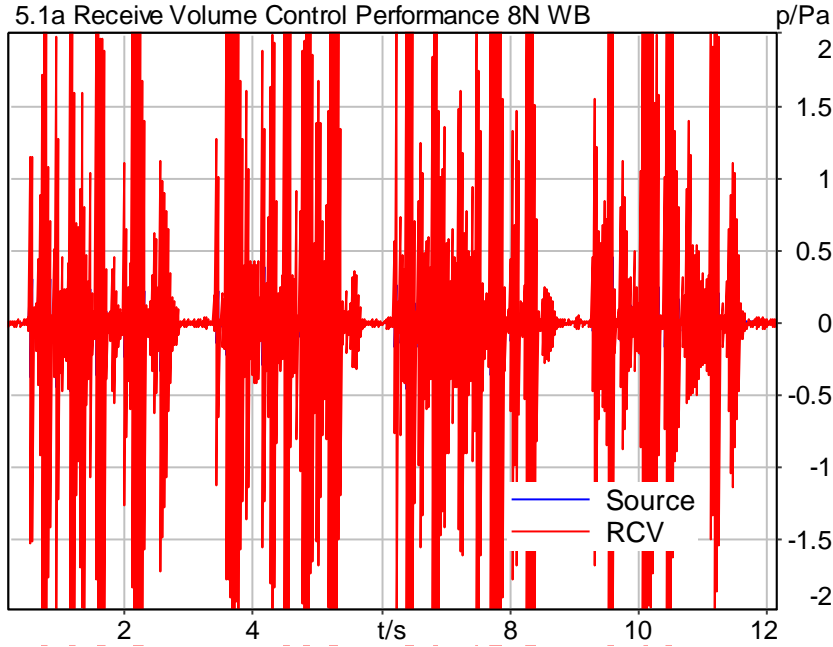
10/14/2023 5:47 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1a Receive Volume Control Performance 8N WB



Speech Level RCV: 89.60 dB[SPL], Act.: 53.71% Ok

Ok

10/14/2023 5:47 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

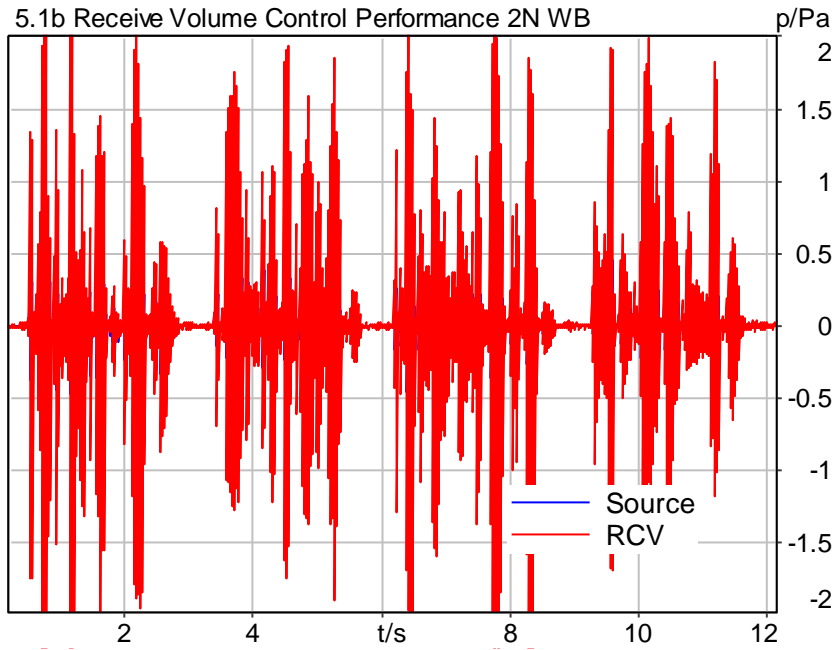
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.09 dB[SPL], Act.: 26.56% Ok

Ok

10/14/2023 5:49 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	lower
Run 1	76.00 dB20uPa





**#47 FR1 n2 EVS WB 5.9kbps**

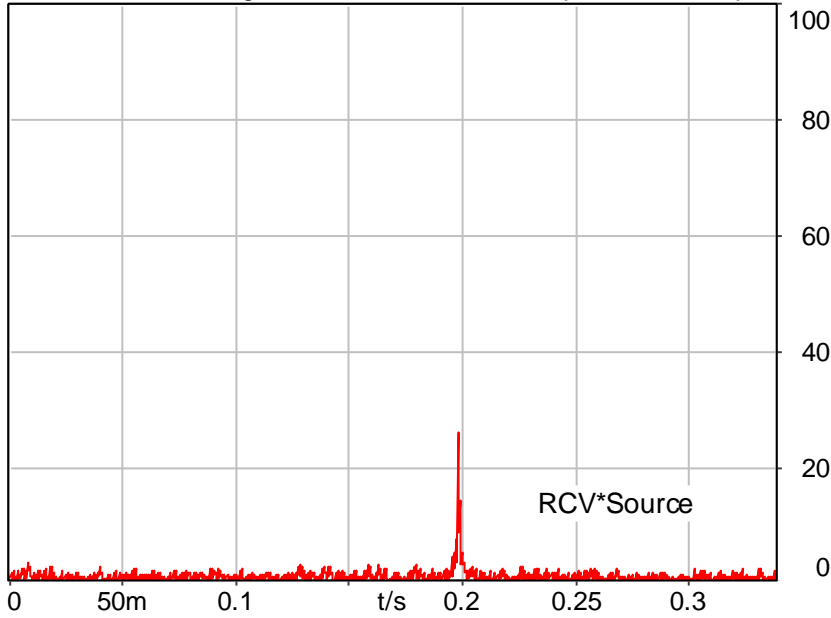
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	198.4
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.26
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.11



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



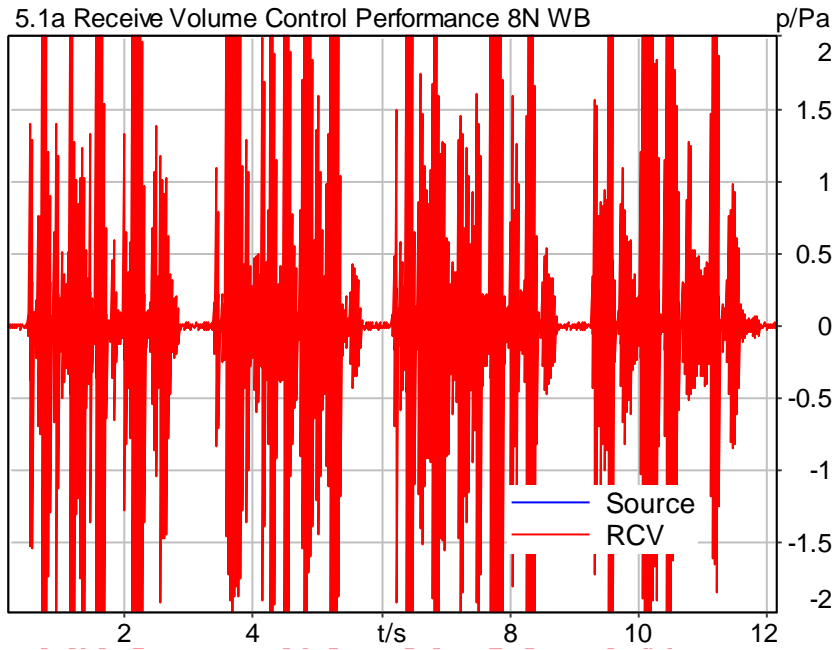
Delay (Cross): 198.4 ms

10/14/2023 12:42 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.26 dB[SPL], Act.: 56.93% Ok

**Ok**

10/14/2023 12:42 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

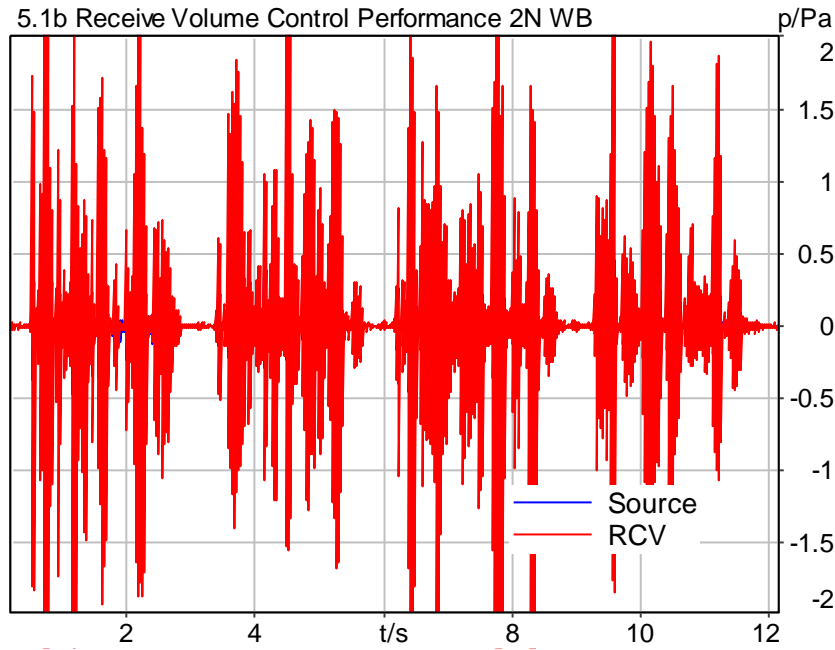
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.11 dB[SPL], Act.: 25.42% Ok

**Ok**

10/14/2023 12:43 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#48 FR1 n5 AMR WB 6.60kbps**

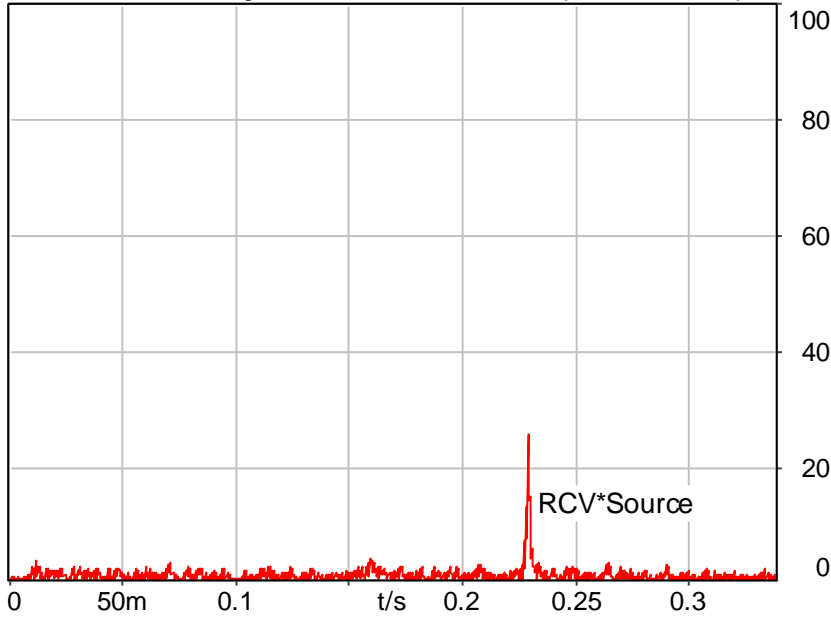
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	229.5
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.21
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.88



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



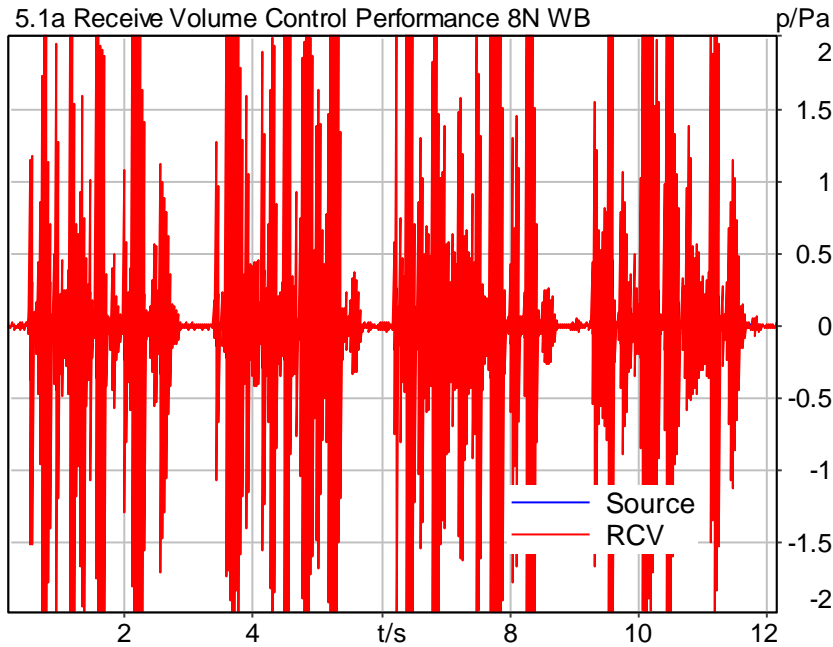
Delay (Cross): 229.5 ms

10/14/2023 1:12 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.21 dB[SPL], Act.: 55.35% Ok

**Ok**

10/14/2023 1:12 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

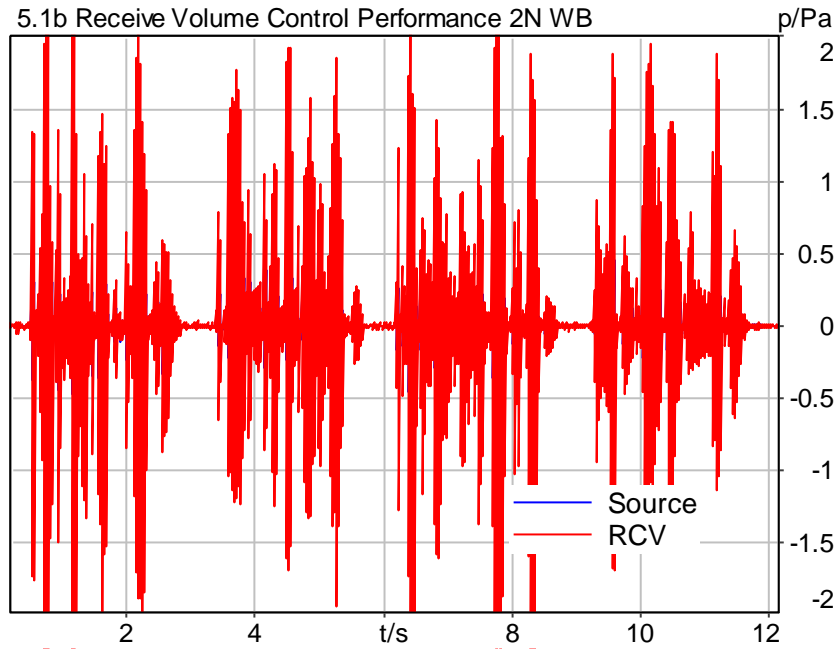
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.88 dB[SPL], Act.: 28.60% Ok

**Ok**

10/14/2023 1:13 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa





**#49 FR1 n7 EVS NB 5.9kbps**

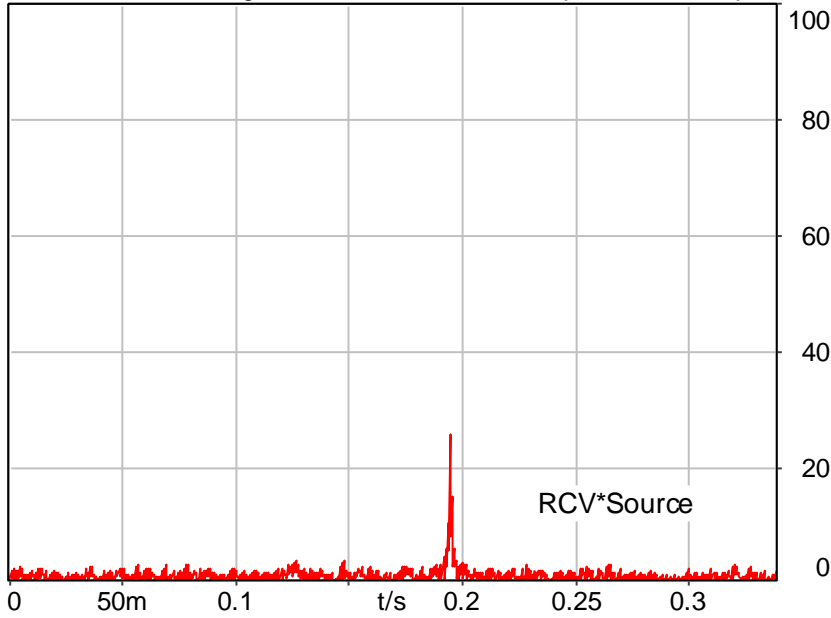
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	194.8
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.69
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	88.36



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



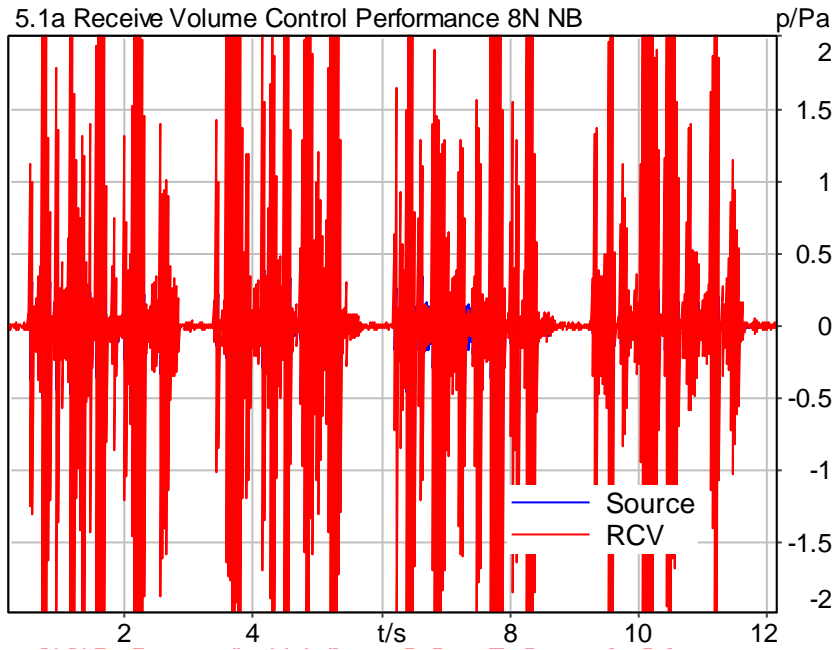
Delay (Cross): 194.8 ms

10/14/2023 2:24 PM ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.69 dB[SPL], Act.: 52.36% Ok

Ok

10/14/2023 2:25 PM ACQUA 5.1.200

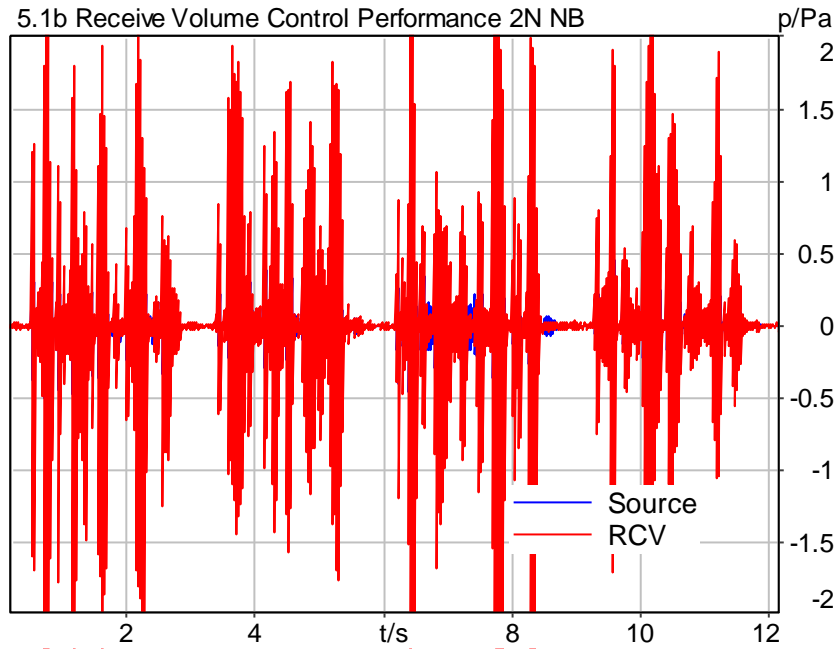
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.36 dB[SPL], Act.: 22.59% Ok

**Ok**

10/14/2023 2:25 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#50 FR1 n48 AMR WB 6.60kbps**

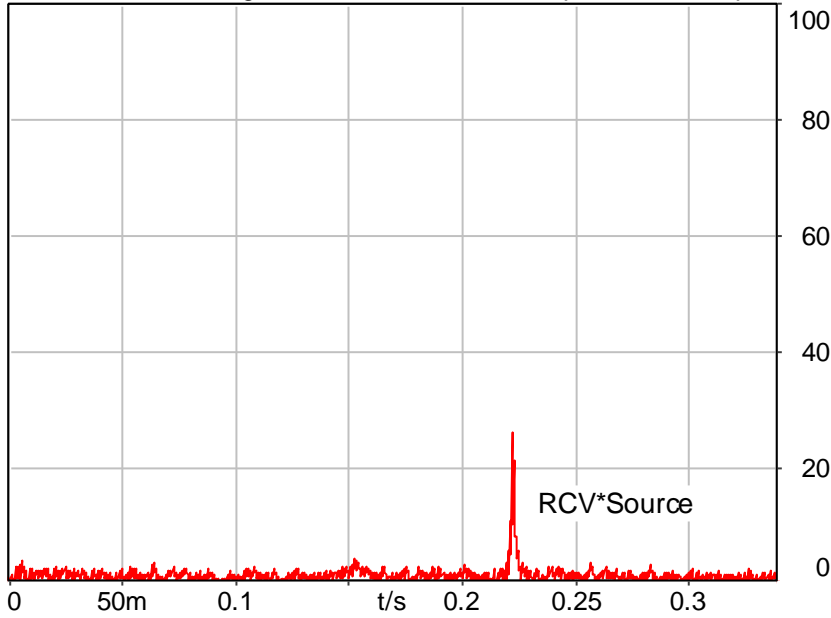
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	222.5
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.19
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.84



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



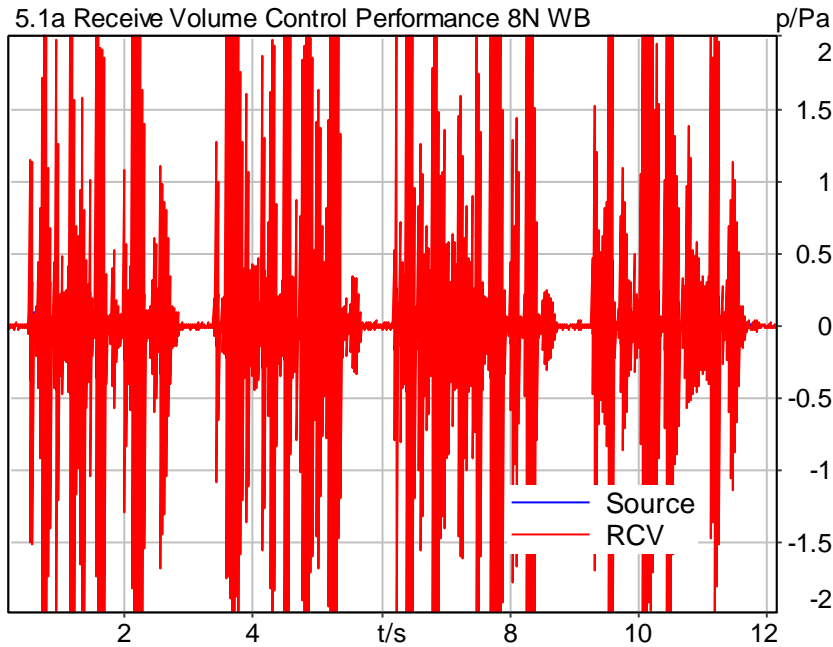
Delay (Cross): 222.5 ms

10/13/2023 9:21 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.19 dB[SPL], Act.: 55.43% Ok

**Ok**

10/13/2023 9:21 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

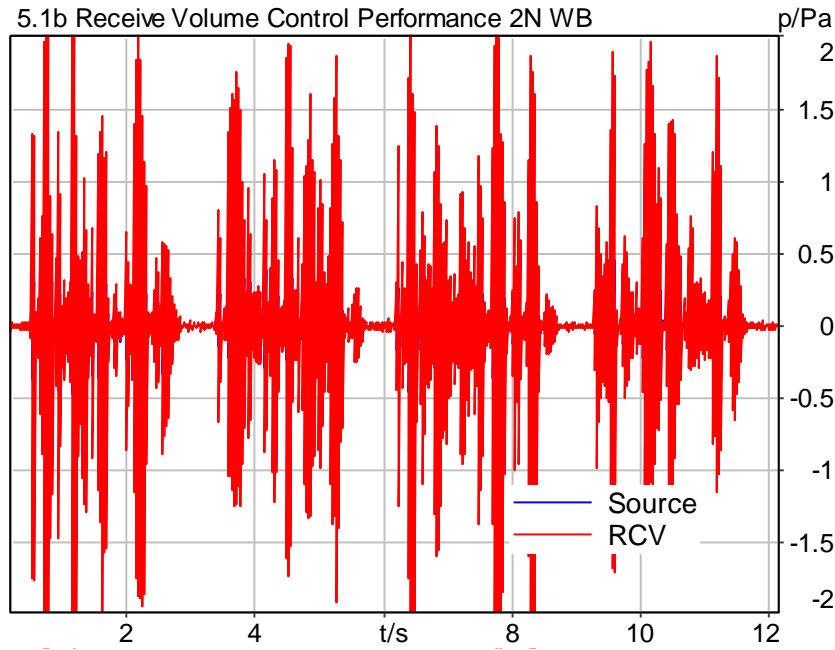
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.84 dB[SPL], Act.: 29.26% Ok

**Ok**

10/13/2023 9:22 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa





**#51 FR1 n66 AMR WB 6.60kbps**

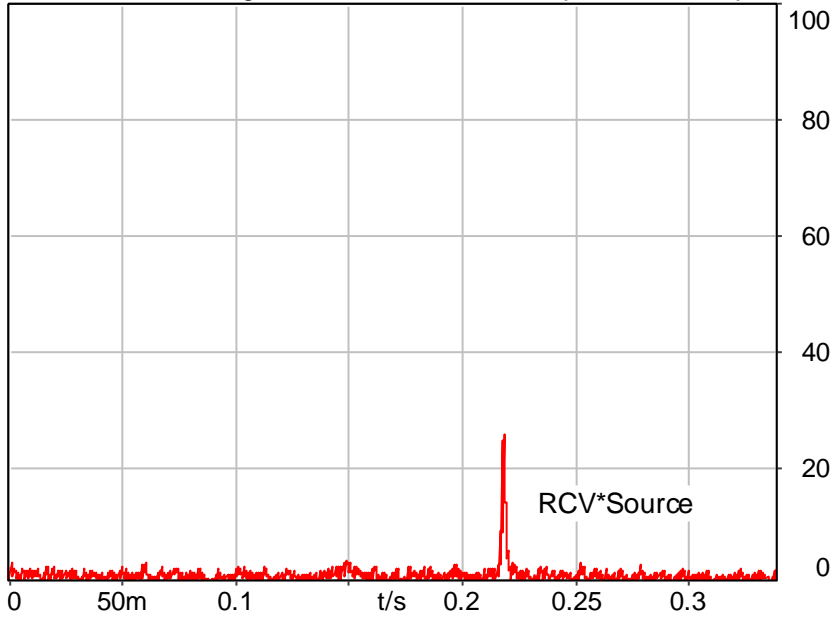
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	218.3
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.69
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.76



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



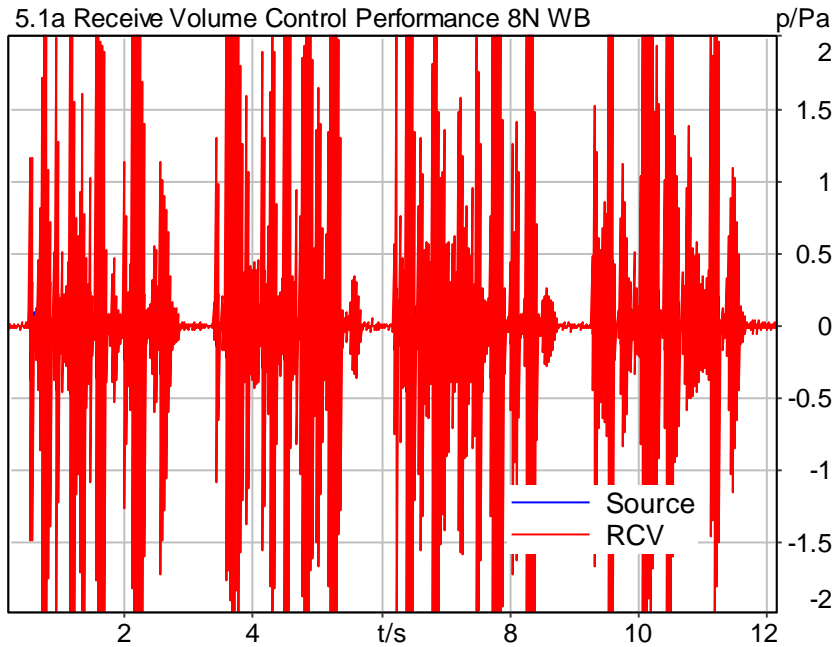
Delay (Cross): 218.3 ms

10/14/2023 12:11 AM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.69 dB[SPL], Act.: 49.02% Ok

**Ok**

10/14/2023 12:11 AM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

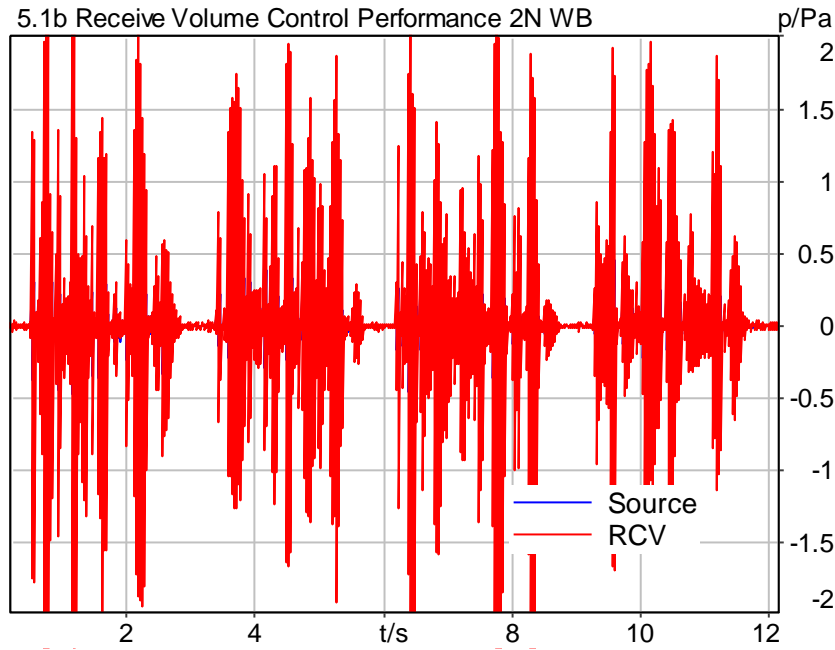
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.76 dB[SPL], Act.: 28.77% Ok

**Ok**

10/14/2023 12:13 AM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#52 FR1 n71 AMR WB 6.60kbps**

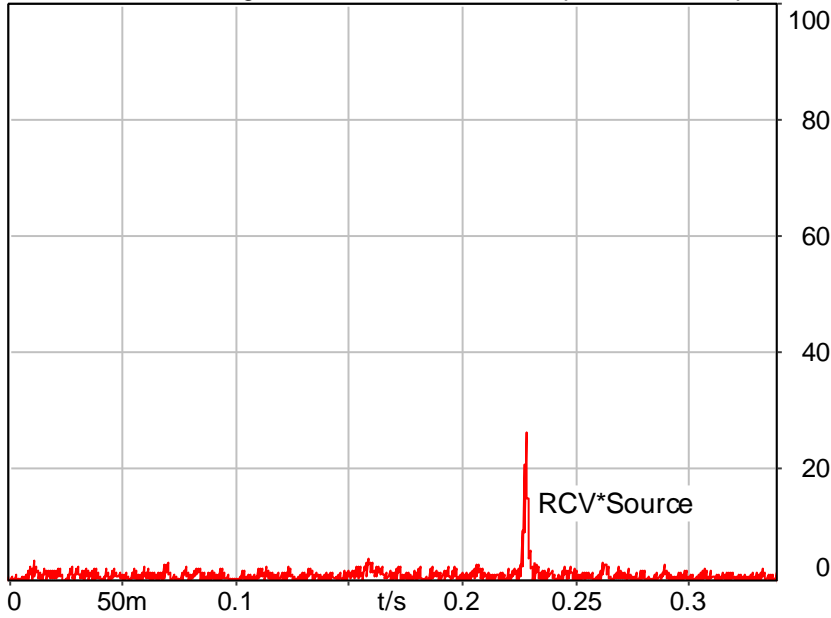
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	228.4
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.20
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	87.81



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



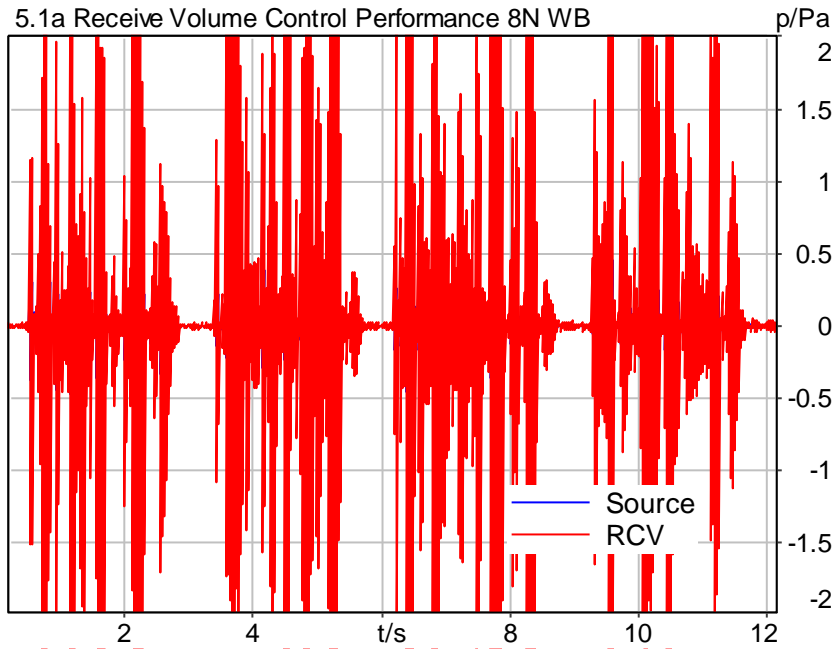
Delay (Cross): 228.4 ms

10/13/2023 11:03 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.20 dB[SPL], Act.: 55.37% Ok

**Ok**

10/13/2023 11:03 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

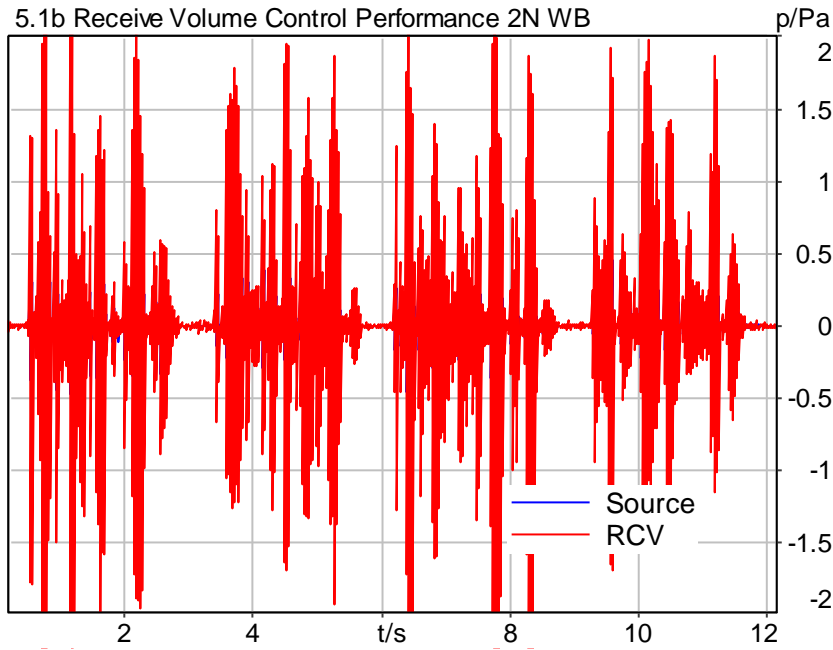
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 87.81 dB[SPL], Act.: 29.14% Ok

**Ok**

10/13/2023 11:04 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa





**#53 FR1 n77 EVS WB 24.4kbps**

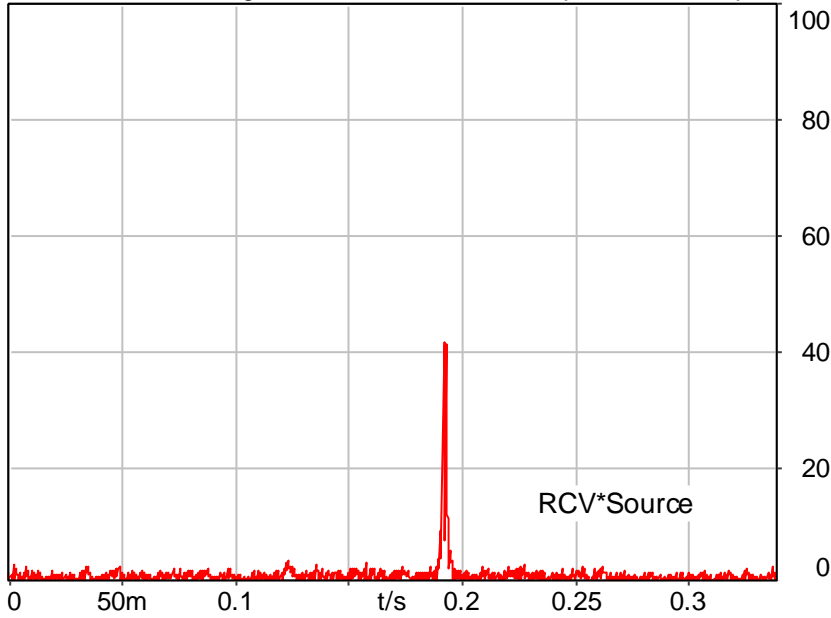
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	192.5
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.23
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.07



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %



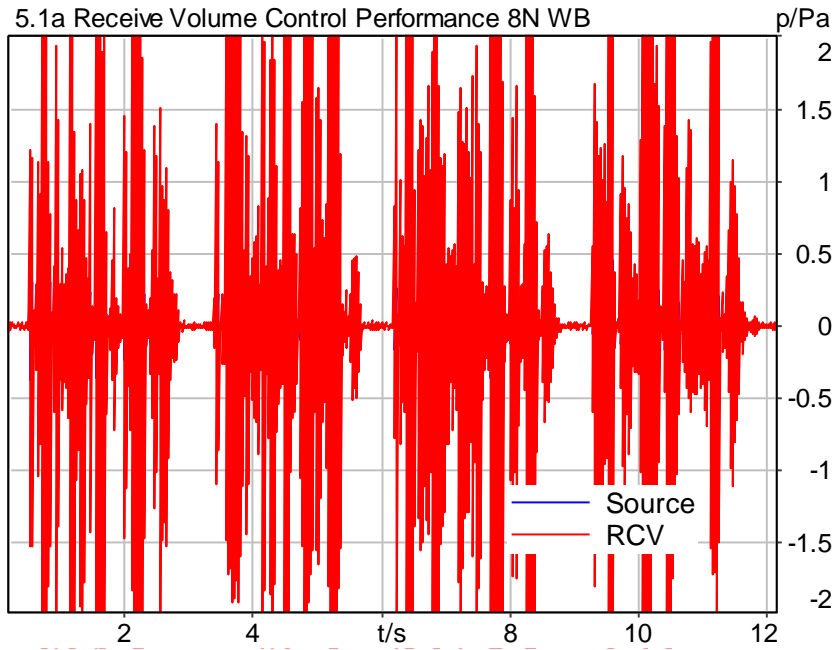
Delay (Cross): 192.5 ms

10/13/2023 7:24 PM ACQUA 5.1.200  
Unmodified HEAD acoustics Measurement Descriptor



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.23 dB[SPL], Act.: 59.46% Ok

**Ok**

10/13/2023 7:24 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

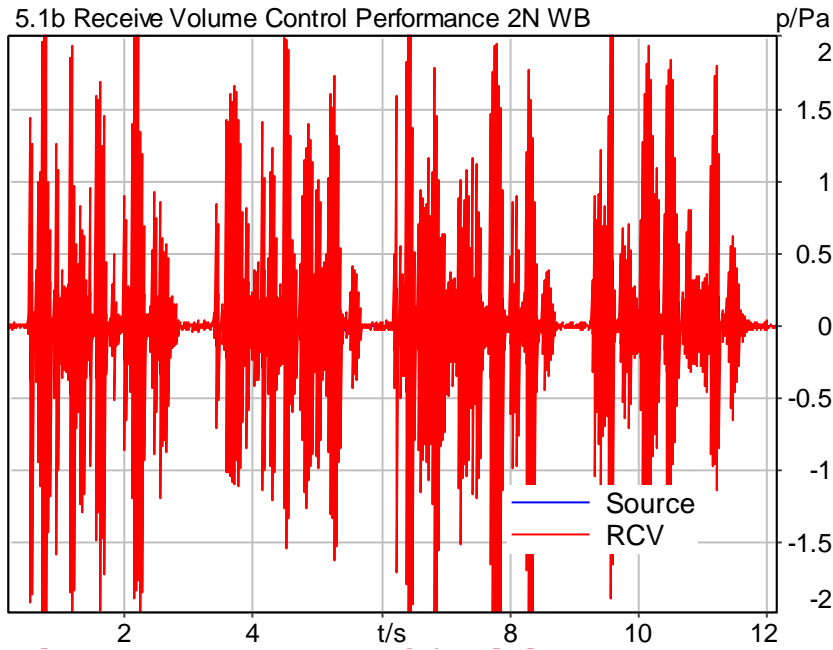
**Limits**

	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.07 dB[SPL], Act.: 27.92% Ok

**Ok**

10/13/2023 7:25 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

**Limits**

	<b>lower</b>
Run 1	76.00 dB20uPa



**#54 WiFi 2.4GHz AMR WB 23.85kbps**

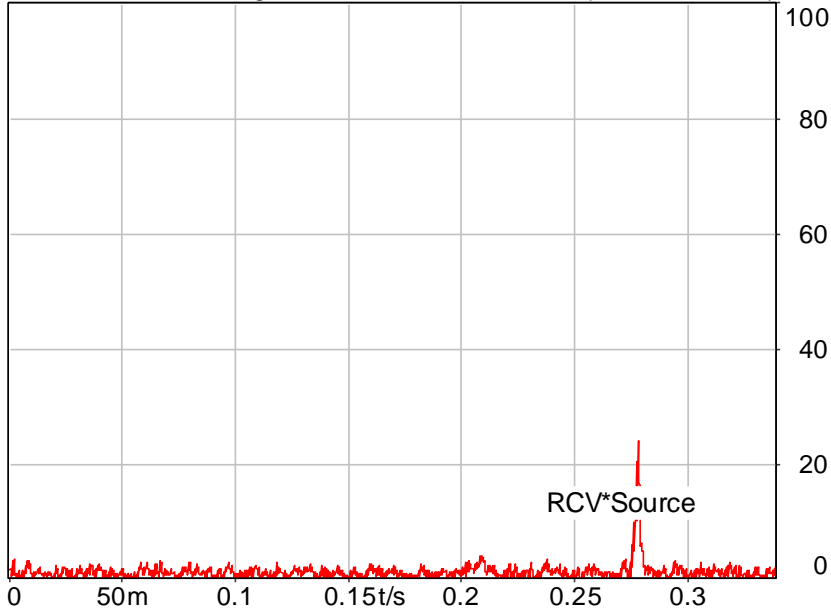
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	278.0
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	90.31
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.02



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



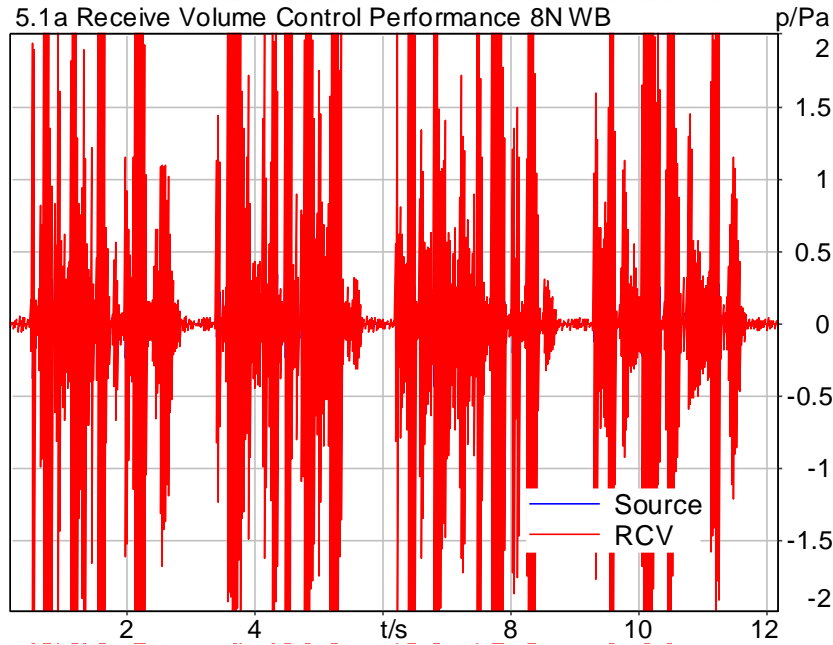
Delay (Cross): 278.0 ms

2023/10/25 下午 05:59 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 90.31 dB[SPL], Act.: 50.59% Ok

Ok

2023/10/25 下午 06:00 ACQUA 5.1.200

**Limits**

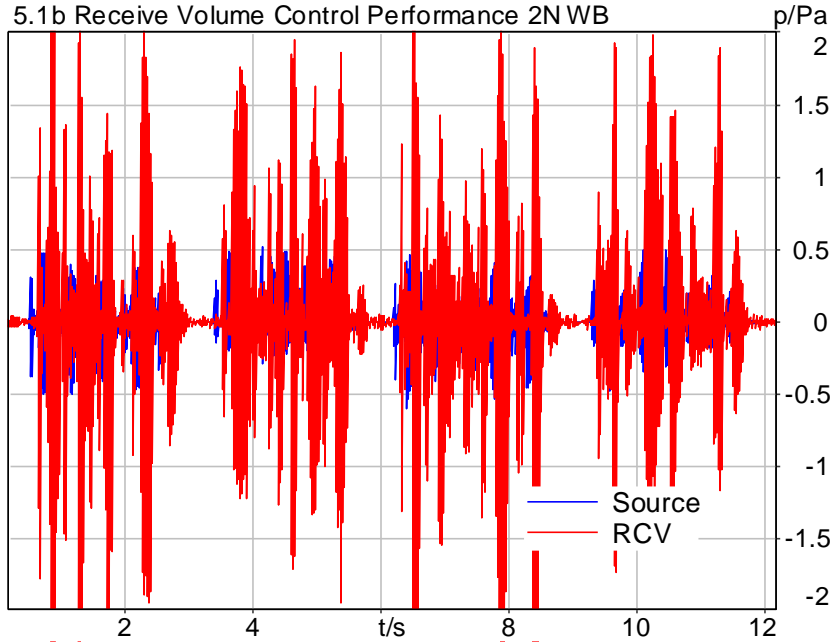
	<b>lower</b>
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband

5.1b Receive Volume Control Performance 2N WB



Speech Level RCV: 88.02 dB[SPL], Act.: 27.16% Ok

Ok

2023/10/25 下午 06:00 ACQUA 5.1.200

**Limits**

	lower
Run 1	76.00 dB20uPa





**#55 WiFi 5.2GHz AMR WB 23.85kbps**

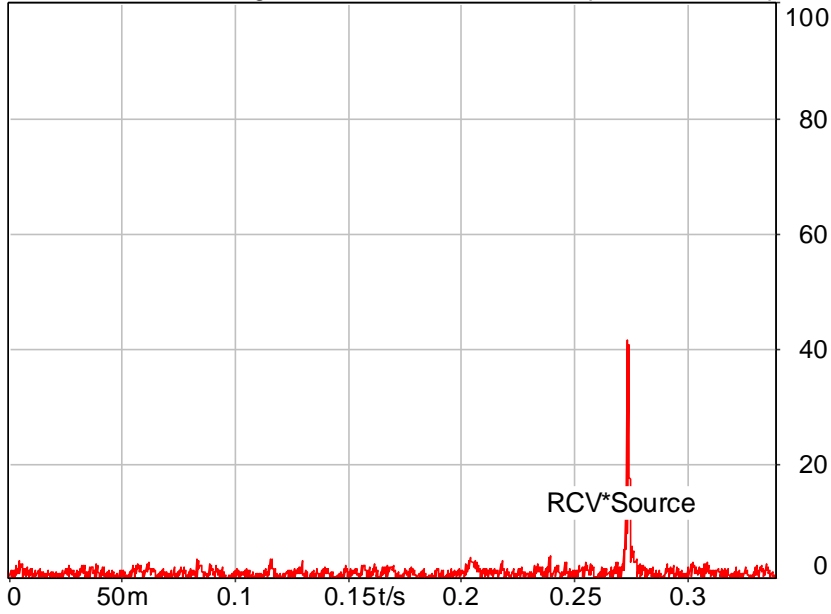
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	274.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.82
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.21



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



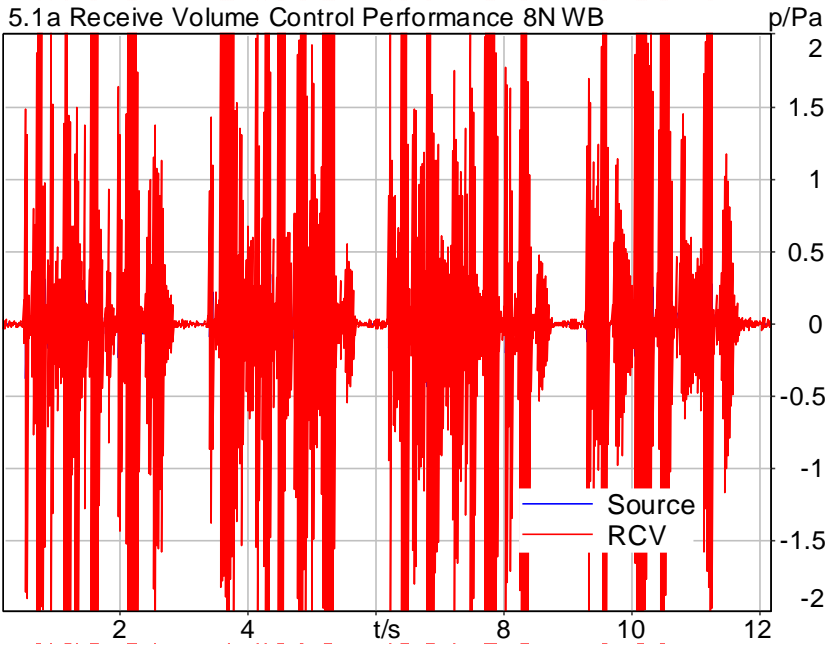
Delay (Cross): 274.1 ms

2023/10/26 上午 02:01 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.82 dB[SPL], Act.: 58.23% Ok

Ok

2023/10/26 上午 02:01 ACQUA 5.1.200

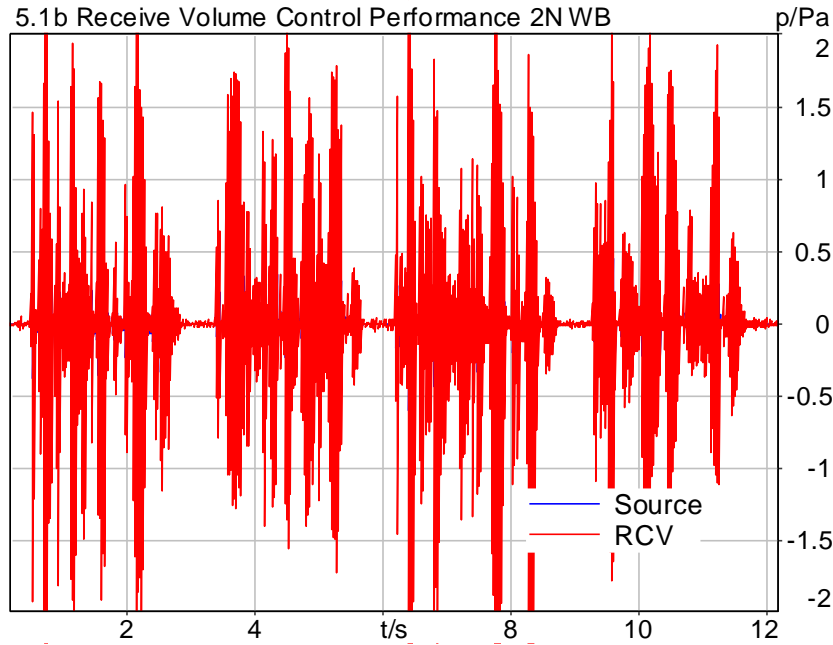
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.21 dB[SPL], Act.: 27.09% Ok

Ok

2023/10/26 上午 02:04 ACQUA 5.1.200

**Limits**

	lower
Run 1	76.00 dB20uPa



**#56 WiFi 5.3GHz AMR NB 12.2kbps**

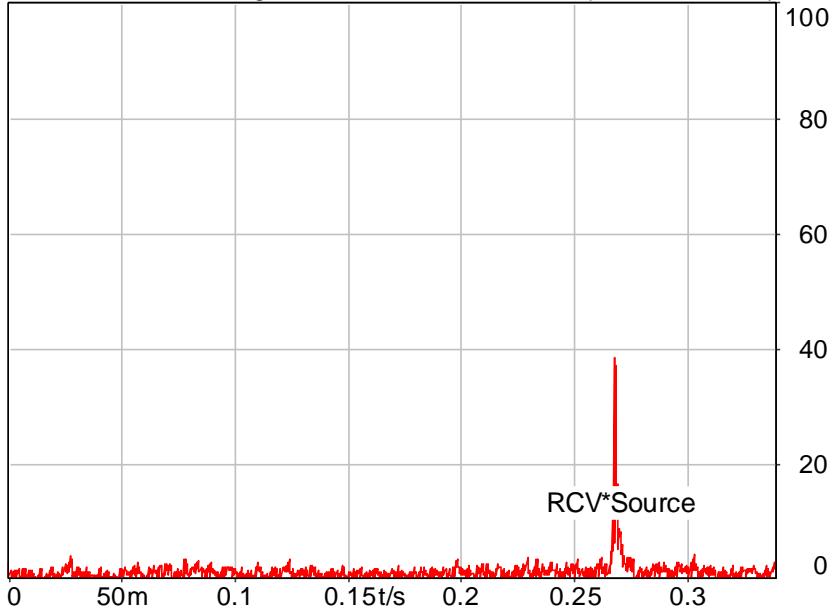
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	268.0
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	90.31
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	88.19



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %

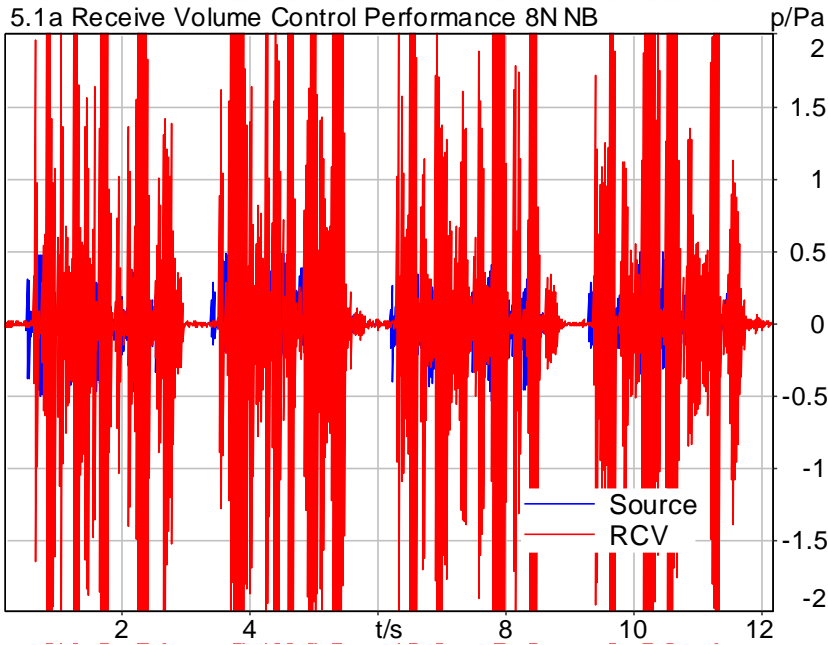


Delay (Cross): 268.0 ms

2023/10/27 上午 01:35 ACQUA 5.1.200

### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 90.31 dB[SPL], Act.: 50.63% Ok

**Ok**

2023/10/27 上午 01:36 ACQUA 5.1.200

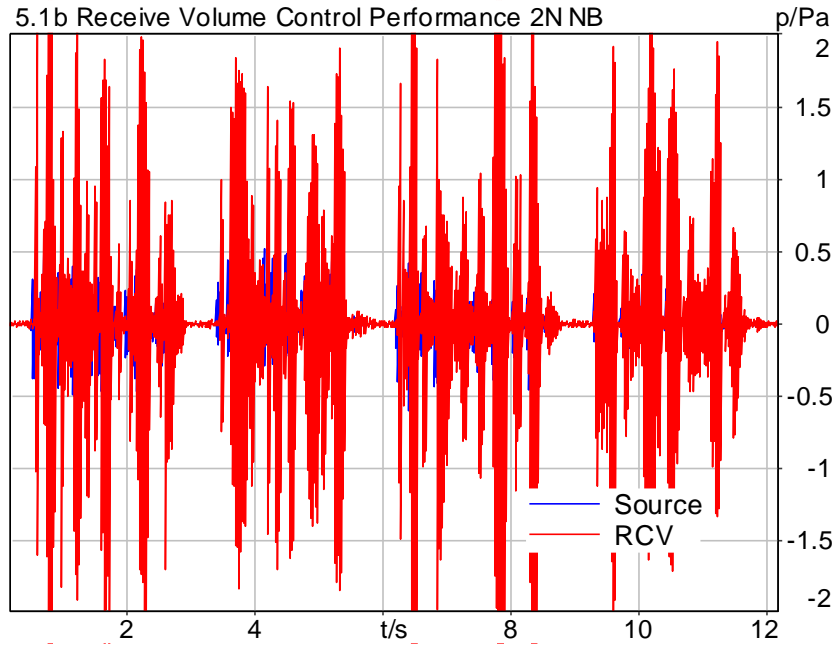
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.19 dB[SPL], Act.: 28.01% Ok

Ok

2023/10/27 上午 01:37 ACQUA 5.1.200

Limits

	lower
Run 1	76.00 dB20uPa





**#57 WiFi 5.5GHz EVS WB 24.4kbps**

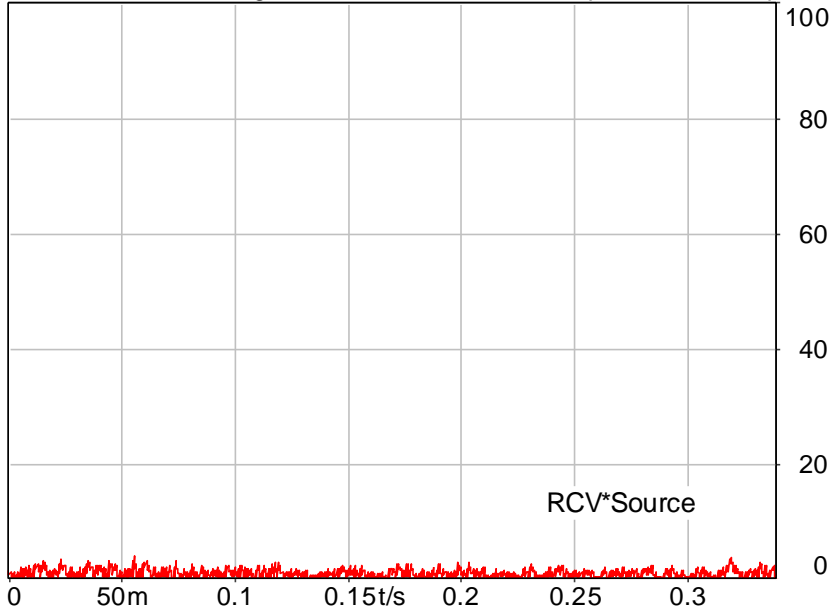
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	388.9
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.90
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.16



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



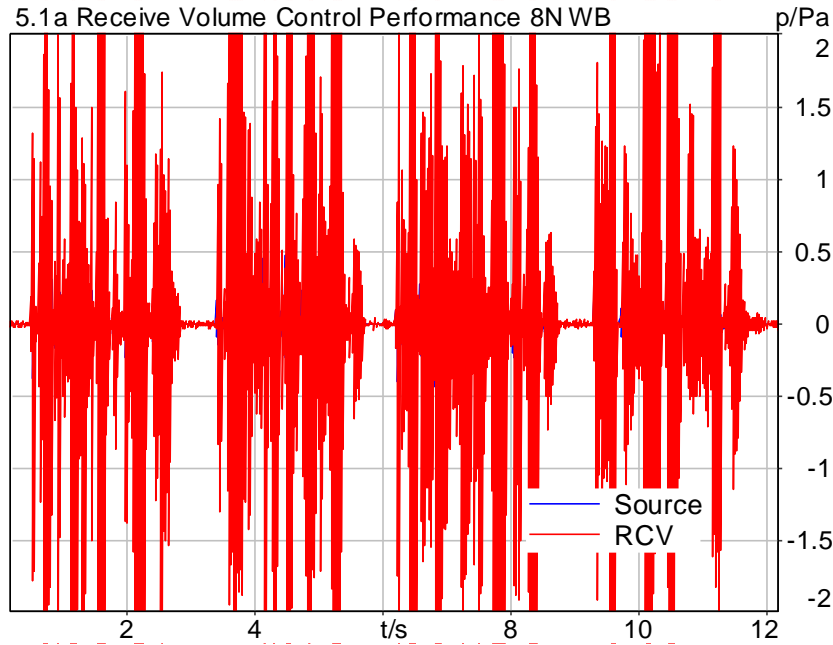
Delay (Cross): 388.9 ms

2023/10/26 上午 01:21 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.90 dB[SPL], Act.: 58.67% Ok

Ok

2023/10/26 上午 01:22 ACQUA 5.1.200

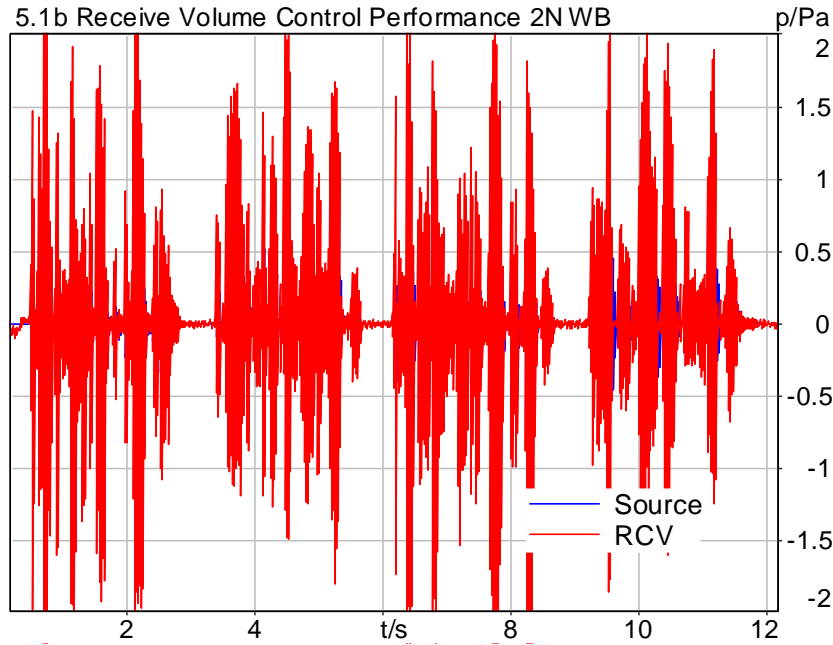
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.16 dB[SPL], Act.: 29.17% Ok

Ok

2023/10/26 上午 01:29 ACQUA 5.1.200

Limits

	lower
Run 1	76.00 dB20uPa



**#58 WiFi 5.8GHz AMR WB 6.60kbps**

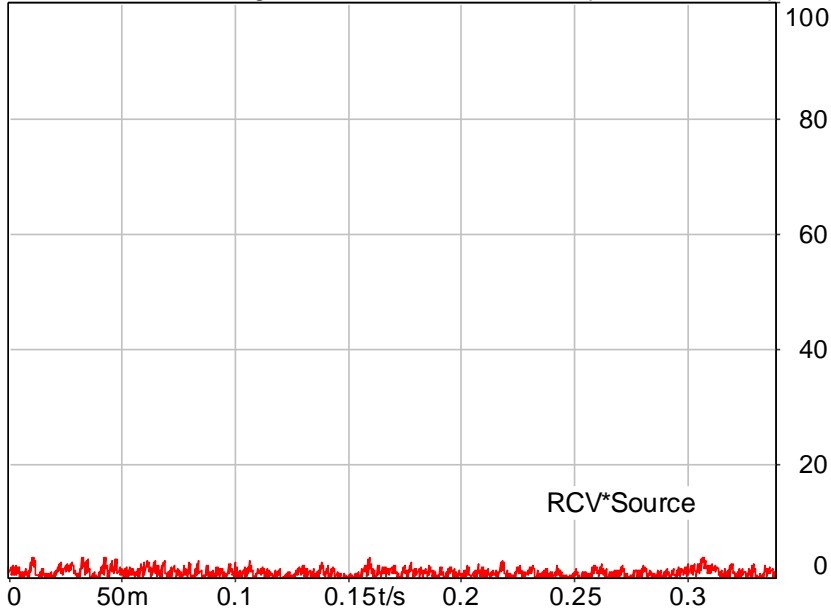
SMD	Status	Single Value Description	Single Value
Overall Receive Delay WB	Done	Delay (Cross) [ms]	376.1
5.1a Receive Volume Control Performance 8N WB	Ok	Speech Level [dB[SPL]]	89.56
5.1b Receive Volume Control Performance 2N WB	Ok	Speech Level [dB[SPL]]	88.58



### Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



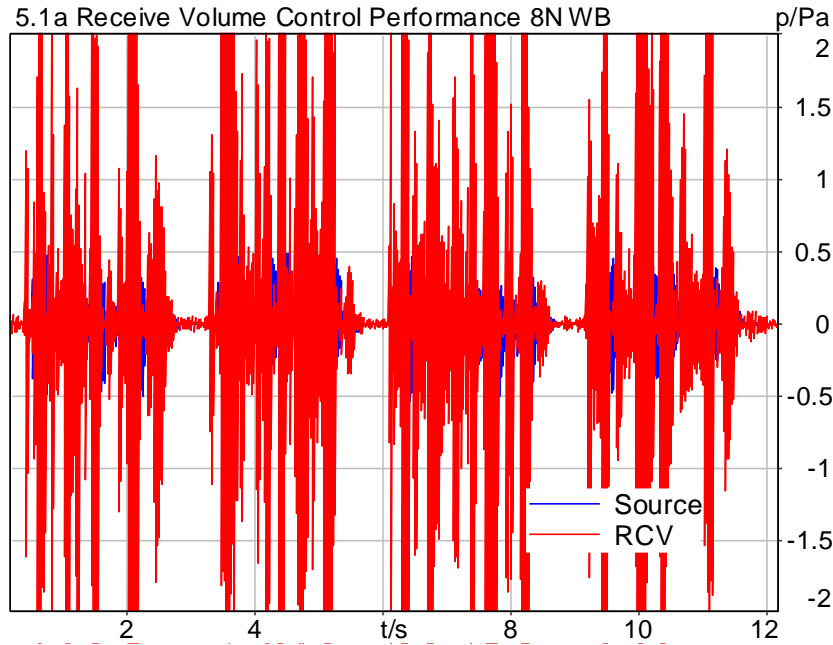
Delay (Cross): 376.1 ms

2023/10/27 上午 10:00 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.56 dB[SPL], Act.: 53.86% Ok

**Ok**

2023/10/27 上午 10:01 ACQUA 5.1.200

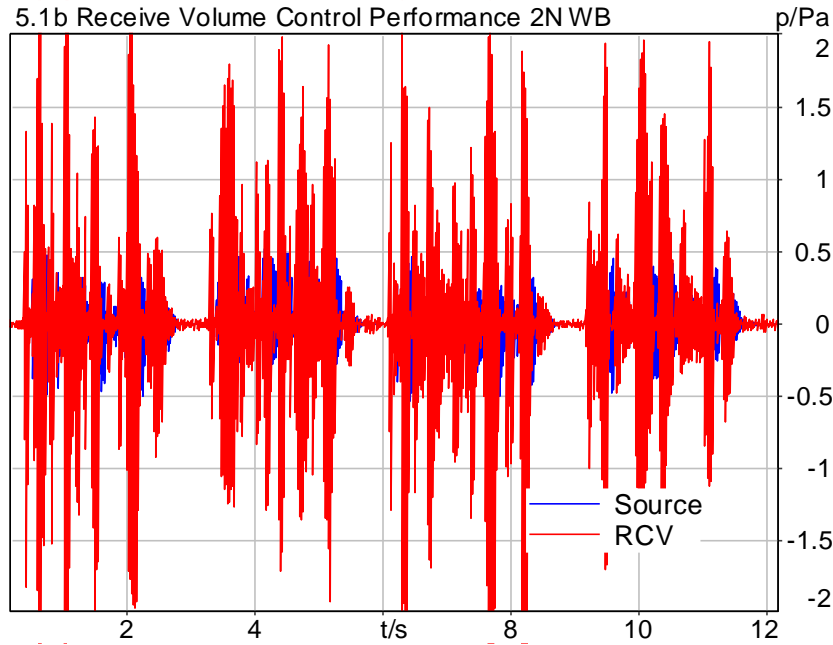
**Limits**

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.58 dB[SPL], Act.: 23.77% Ok

Ok

2023/10/27 上午 10:04 ACQUA 5.1.200

Limits

	lower
Run 1	76.00 dB20uPa





**#59 WiFi 5.9GHz AMR NB 12.2kbps**

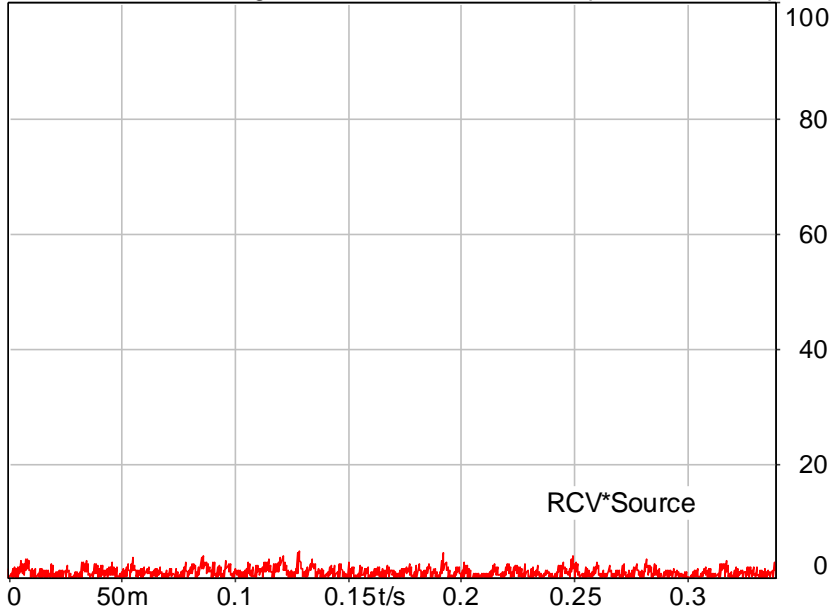
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	461.6
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.87
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	87.96



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %



Delay (Cross): 461.6 ms

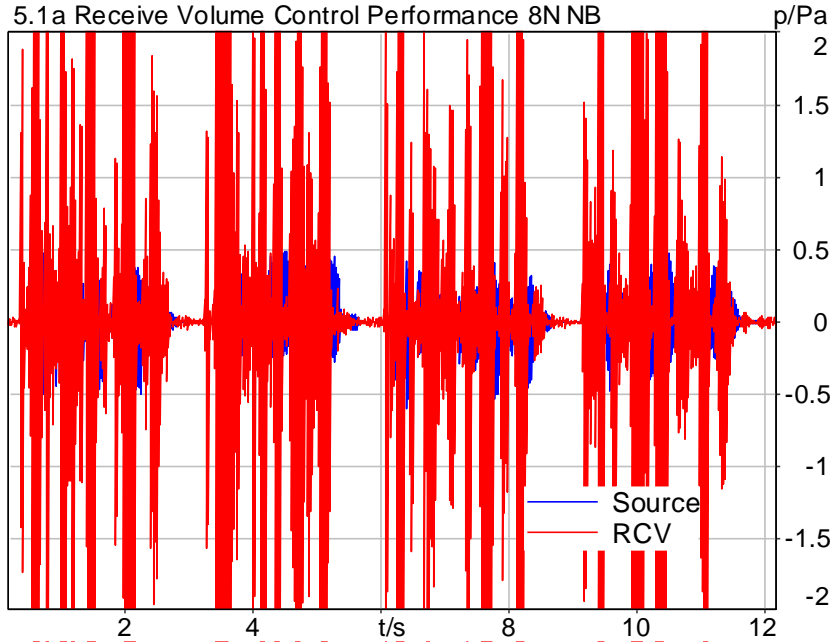
2023/10/27 上午 10:39 ACQUA 5.1.200



### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1a Receive Volume Control Performance 8N NB



Speech Level RCV: 89.87 dB[SPL], Act.: 56.47% Ok

Ok

2023/10/27 上午 10:39 ACQUA 5.1.200

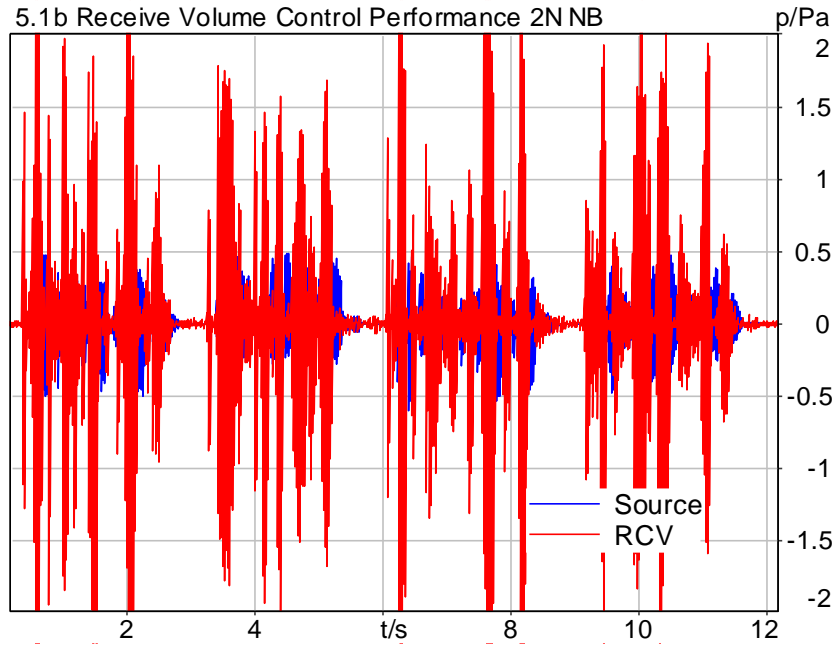
Limits

	lower
Run 1	88.00 dB20uPa



### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 87.96 dB[SPL], Act.: 28.00% Ok

**Ok**

2023/10/27 上午 10:40 ACQUA 5.1.200

**Limits**

	lower
Run 1	76.00 dB20uPa



**#60 WiFi 6GHz EVS NB 5.9kbps**

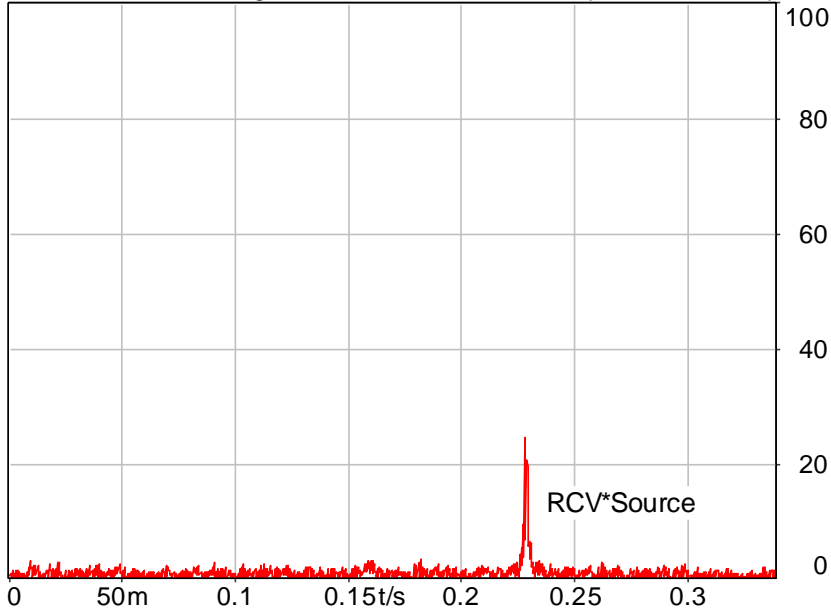
SMD	Status	Single Value Description	Single Value
Overall Receive Delay NB	Done	Delay (Cross) [ms]	228.9
5.1a Receive Volume Control Performance 8N NB	Ok	Speech Level [dB[SPL]]	89.94
5.1b Receive Volume Control Performance 2N NB	Ok	Speech Level [dB[SPL]]	88.31



### Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelop %

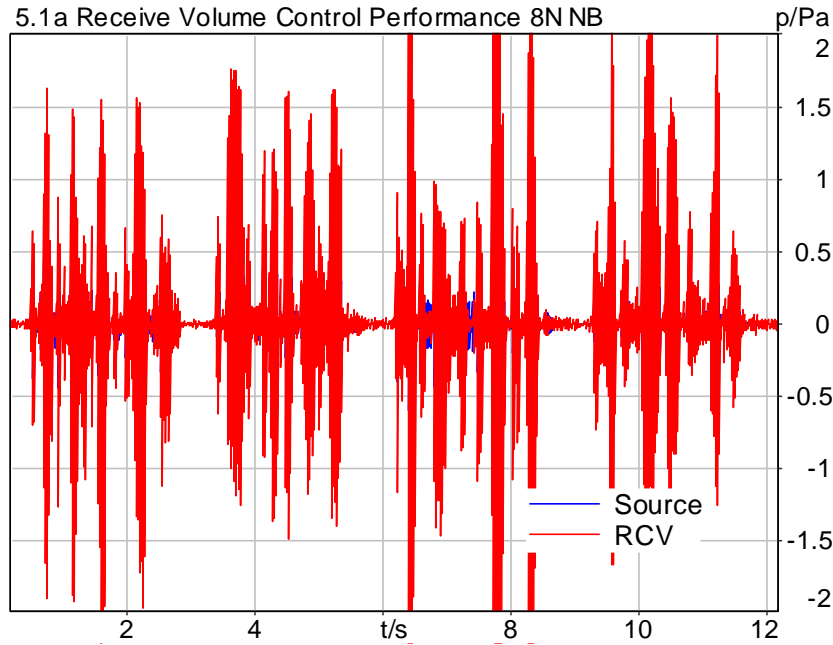


Delay (Cross): 228.9 ms

2023/10/31 下午 06:38 ACQUA 5.1.200

### 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.94 dB[SPL], Act.: 14.24% Ok

**Ok**

2023/10/31 下午 06:38 ACQUA 5.1.200

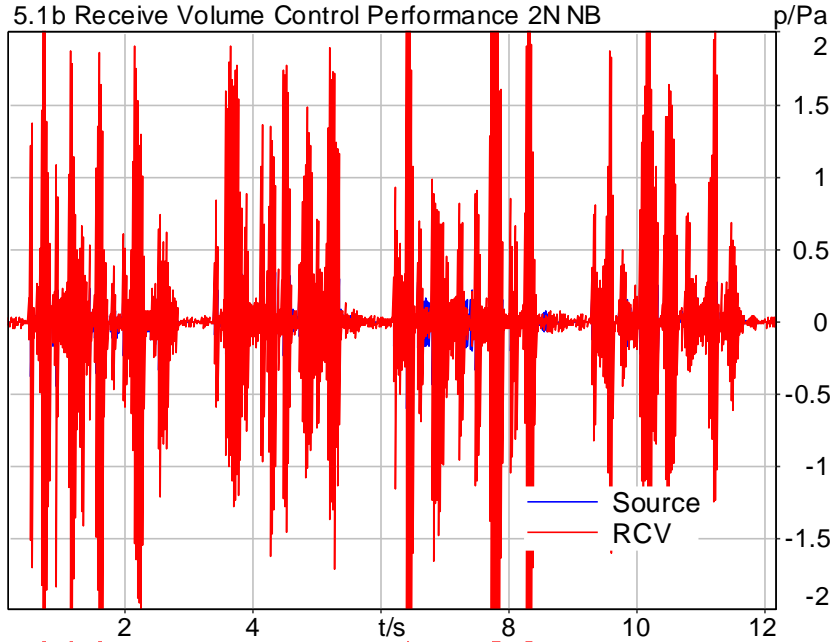
**Limits**

	lower
Run 1	88.00 dB20uPa

### 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband

5.1b Receive Volume Control Performance 2N NB



Speech Level RCV: 88.31 dB[SPL], Act.: 23.33% Ok

Ok

2023/10/31 下午 06:39 ACQUA 5.1.200

**Limits**

	lower
Run 1	76.00 dB20uPa