

Hearing Protective Device Test Report Number Q6207A Revision 1

Guangzhou Junyue Foam Earplug Co., Ltd.
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Date of Rev 1: 2/17/25

Date of test: 5/28/20

Date of testing: 3/11/20-5/22/20

Date of Sample Receipt: 3/5/20



Technician: Eileen Kline

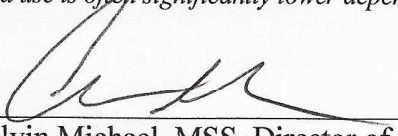
Attenuation measurements have been performed according to the European Standards EN352-2:2020 on the Guangzhou Junyue Foam Earplug Co., Ltd. JY200D/JY200 semi-aural hearing protector (test ID Q6207A). The specified threshold measurement data were obtained using sixteen normally-hearing listeners. These listeners were selected as specified in EN352-2:2020.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in EN352-2:2020. The ambient noise levels in this room are below the limits specified in EN352-2:2020, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the sixteen subjects was tested at each of seven test frequencies. The attached Tables show mean and standard deviation attenuation values in decibels (dB) for each test signal. The results presented in this report pertain to the samples tested only.

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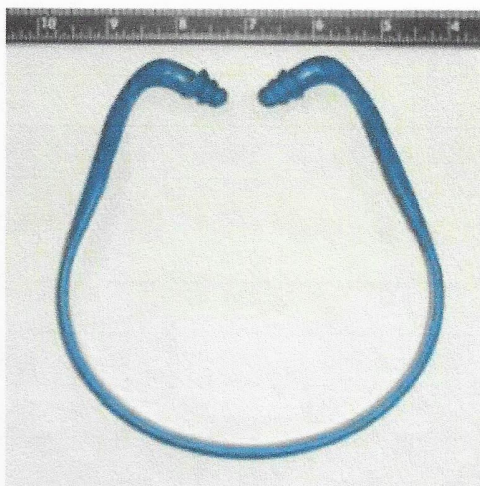
Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.


Calvin Michael, MSS, Director of Operations

2/17/25
Date

Manufacturer: Guangzhou Junyue Foam Earplug Co., Ltd.
Model: JY200/ JY200D
Test ID Number: Q6207A
Date of receipt: 3/5/2020
Dates of testing: 3/5/2020-5/26/2020
Type of product: Earplug
Wearing position: Semi-aural

Test Item:



Unpack, Weigh, Condition all samples (grams)

	Basic	Detectable
sample 1	14.5	15.0
sample 2	15.0	15.0
sample 3	15.0	15.5
sample 4	15.0	15.0
sample 5	15.0	15.0
sample 6	15.0	15.5
sample 7	14.5	15.0
sample 8	15.0	15.0
sample 9	14.5	15.0
sample 10	15.0	15.5
Mean	14.9	15.2

4.1 Sizing and Adjustability

	Smallest diameter (mm)	Largest diameter (mm)
sample 1	8	12
sample 2	8	12
sample 3	8	12
sample 4	8	12
sample 5	8	12
sample 6	8	12
sample 7	8	12
sample 8	8	12
sample 9	8	12
sample 10	8	12

Range of Fitting:

The "X" indicates where the earplug fulfills the requirement.

	H 115 W 125 S	H 115 W 145 S/M	H 130 W 125 S/M	H 130 W 145 S/M/L	H 130 W 155 M/L	H 140 W 145 M/L	H 140 W 155 L
sample 1	X	X	X	X	X	X	X
sample 2	X	X	X	X	X	X	X
sample 3	X	X	X	X	X	X	X
sample 4	X	X	X	X	X	X	X
sample 5	X	X	X	X	X	X	X
sample 6	X	X	X	X	X	X	X

- 4.2.1 Materials Pass
- 4.2.2 Construction Pass
- 4.3.1 Conditioning Completed

4.3.2 Resistance to damage when dropped

The earplugs did not crack, nor did any parts of the earplugs detach when dropped.

4.3.3 Resistance to damage when dropped at low temperature

This test was not performed as it is optional.

4.3.4 Cleaning and disinfection Pass

4.3.5 Ignitability

Upon application of the heated rod, no part of the earplugs ignited or continued to glow after removal of the heated rod.

4.3.6 Minimum Attenuation

Pass See Appendix A for data.

	H	M	L
Limit	12	11	9

Mean-2*SD>0 for all test frequencies

Sections 5 and 6, Marking and Info Provided by Manufacturer
Not assessed.

Products were provided without packaging.

It is the manufacturer's responsibility to adhere to the requirements of these sections.

Estimates of uncertainty

Sizing	+-	1 mm	
Weight	+-	.01 g	
Semi-aural headband force	+-	.1 lb	(.45 N)
REAT attenuation	+-	3 dB	

Appendix A. Attenuation Data
Individual and Summary Attenuation Data for
Hearing Protective Devices

Test Method: EN352-2:2020

Position: Semi-Aural

Manufacturer: Guangzhou Junyue Foam Earplug Co. Ltd.

Model: JY200D/JY200

Date: 5/8/20

Test ID # Q6207A

SUBJECT	Attenuation in dB						
	FREQUENCY IN HERTZ						
	125	250	500	1000	2000	4000	8000
1	27.5	22.6	23.6	27.1	34.5	26.3	26.0
2	35.1	25.2	23.3	24.5	32.2	30.7	33.0
3	29.6	28.3	22.8	33.2	37.7	36.5	37.0
4	20.1	21.1	24.4	23.1	27.7	26.1	36.4
5	35.2	37.1	40.0	35.9	35.3	37.4	42.3
6	22.7	19.3	21.1	23.2	30.1	24.5	34.0
7	25.1	22.9	30.3	24.7	25.0	26.4	45.1
8	21.8	22.4	26.7	25.1	26.6	26.3	35.7
9	26.1	28.8	28.0	29.3	33.7	33.6	43.2
10	33.0	35.3	32.6	32.9	35.0	34.4	44.5
11	33.5	29.1	35.0	38.6	40.6	34.2	42.3
12	38.9	38.7	30.8	28.2	26.8	30.1	36.7
13	25.5	22.9	22.7	23.4	29.1	26.6	41.0
14	21.6	22.5	20.6	22.9	35.8	33.7	32.8
15	33.1	22.7	25.8	28.5	33.6	33.1	45.7
16	33.8	28.1	32.6	29.0	33.6	30.2	46.2
MEANS	28.9	26.7	27.5	28.1	32.3	30.6	38.9
STD. DEV.	5.9	5.9	5.6	4.9	4.4	4.2	5.8
MEAN - SD	23.1	20.8	22.0	23.2	27.9	26.5	33.1

$$SNR_m = 30.5$$

$$SNR_s = 3.9$$

$$SNR(dB) = 27.0$$

$$H_{84}(dB) = 27 \text{ dB} \quad H_m = 31.0 \quad H_s = 3.9$$

$$M_{84}(dB) = 24 \text{ dB} \quad M_m = 28.3 \quad M_s = 4.2$$

$$L_{84}(dB) = 23 \text{ dB} \quad L_m = 27.3 \quad L_s = 4.5$$