

Dead Air Mask - TCR/22 - American Eagle 45gr SV - 22 LR

Test Setup	
Suppressor	Dead Air Mask
Host	TCR/22
Ammo	American Eagle 45gr SV
Caliber	22 LR
Dry or Wet?	Dry
Location & Weather	
Date	22-May-2022
Location	Range 1
Elevation (Feet ASL)	611
Time	10:40
Wind Low - High	5 10
Temperature F*	74
Humidity %	82%
Pressure In Hg	30.16
Speed of Sound FPS	1133

Meter #1			
Mic Position	Muzzle		
Cal Base	114		
Cal Actual	104	Adds 10 dB	
Cal Offset	10		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	Yes		160 Max
Meter dB Range	100-160		100-160
Effective dB Range	110-170		
Meter SN	0190		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Meter Settings			
Meter #2			
Mic Position	Left Ear		
Cal Base	114		
Cal Actual	94	Adds 20 dB	
Cal Offset	20		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	No		140 Max
Meter dB Range	80-140		80-140
Effective dB Range	100-160		
Meter SN	0220		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Meter #3			
Mic Position	Right Ear		
Cal Base	114		
Cal Actual	94	Adds 20 dB	
Cal Offset	20		
Weighting	A		
Octave Filter	None		
ISO Freq band	N/A		
Mic Distance (M)	1.0	Adds 0 dB	
Distance Scaling Factor	0.00		
160 dB Option	No		140 Max
Meter dB Range	80-140		80-140
Effective dB Range	100-160		
Meter SN	0125		
Meter Mic Calibrator	L-D 800B	B&K 4938	CA250
Protocol	MIL-STD-1474D		

Consolidated Results			
Results	Muzzle	Left Ear	Right Ear
Unsuppressed	138.0	135.1	136.2
Suppressed	115.3	123.3	121.2
NSR	22.7	11.8	15.1
FRP (#1 - Avg)	-1.2	0.3	-0.9
Avg w/o FRP	115.4	123.2	121.2
Min	114.1	122.5	118.6
Max	116.5	124.4	124.3
Std Dev	0.7	0.7	1.9

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	138.0	138.2
Suppressed	115.3	115.3
NSR	22.7	22.9
FRP (#1 - Avg)	-1.2	-1.2
Avg w/o FRP	115.4	115.4
Min	114.1	
Max	116.5	
Std Dev	0.7	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	135.1	135.1
Suppressed	123.3	123.3
NSR	11.8	11.8
FRP (#1 - Avg)	0.3	0.3
Avg w/o FRP	123.2	123.3
Min	122.5	
Max	124.4	
Std Dev	0.7	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	136.2	136.3
Suppressed	121.2	121.5
NSR	15.1	14.7
FRP (#1 - Avg)	-0.9	-1.2
Avg w/o FRP	121.2	121.7
Min	118.6	
Max	124.3	
Std Dev	1.9	

Unsuppressed	Muzzle	Left Ear	Right Ear
Raw 1	129.6	115.3	116.9
Raw 2	126.3	115.4	116.4
Raw 3	128.1	114.6	115.4
Suppressed	Muzzle	Left Ear	Right Ear
Raw 1	104.1	103.6	100.3
Raw 2	105.4	102.5	104.3
Raw 3	104.8	102.6	103.5
Raw 4	106.5	102.8	100.1
Raw 5	105.9	102.6	99.8
Raw 6	104.6	104.4	100.1
Raw 7	105.6	104.1	102.9
Raw 8	104.9	103.6	98.6
Raw 9	104.9	103.6	99.8
Raw 10	105.9	102.8	102.1

Unsuppressed Raw dB	Actual dB
1	129.6
2	126.3
3	128.1
Shot	Raw dB
1	104.1
2	105.4
3	104.8
4	106.5
5	105.9
6	104.6
7	105.6
8	104.9
9	104.9
10	105.9

Unsuppressed Raw dB	Actual dB
1	115.3
2	115.4
3	114.6
Shot	Raw dB
1	103.6
2	102.5
3	102.6
4	102.8
5	102.6
6	104.4
7	104.1
8	103.6
9	103.6
10	102.8

Unsuppressed Raw dB	Actual dB
1	116.9
2	116.4
3	115.4
Shot	Raw dB
1	100.3
2	104.3
3	103.5
4	100.1
5	99.8
6	100.1
7	102.9
8	98.6
9	99.8
10	102.1

Enter the Orange Fields
Light Gray Fields Are Calculated
Green Fields Are Info Only

Averaging logarithmic data
<https://www.cirrusresearch.co.uk/blog/2013/01/noise-data-averaging-how-do-i-average-noise-measurements/>