

Griffin Optimus 9 Short Config - CZ Scorpion - Federal 147gr - 9mm

Test Setup	
Suppressor	Griffin Optimus 9 Short
Host	CZ Scorpion
Ammo	Federal 147gr
Caliber	9mm
Dry or Wet?	Dry
Location & Weather	
Date	22-May-2022
Location	Range 1
Elevation (Feet ASL)	611
Time	11:17
Wind Low - High	5 10
Temperature F*	79
Humidity %	71%
Pressure In Hg	30.16
Speed of Sound FPS	1139

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	157.4	152.0	151.7
Suppressed	138.3	137.1	143.0
NSR	19.2	14.9	8.7
FRP (#1 - Avg)	2.6	1.3	-1.6
Avg w/o FRP	138.0	136.9	143.1
Min	137.3	135.0	141.4
Max	140.9	138.8	144.8
Std Dev	1.1	1.1	1.1

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	157.4	157.5
Suppressed	138.3	138.4
NSR	19.2	19.0
FRP (#1 - Avg)	2.6	2.5
Avg w/o FRP	138.0	138.0
Min	137.3	
Max	140.9	
Std Dev	1.1	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	152.0	152.0
Suppressed	137.1	137.2
NSR	14.9	14.8
FRP (#1 - Avg)	1.3	1.2
Avg w/o FRP	136.9	137.1
Min	135.0	
Max	138.8	
Std Dev	1.1	

Calculated Results		
Calculated Results	Avg (Linear)	Avg (Log)
Unsuppressed	151.7	151.7
Suppressed	143.0	143.1
NSR	8.7	8.6
FRP (#1 - Avg)	-1.6	-1.7
Avg w/o FRP	143.1	143.3
Min	141.4	
Max	144.8	
Std Dev	1.1	

Unsuppressed	Muzzle	Left Ear	Right Ear
Raw 1	147.0	131.8	131.6
Raw 2	147.3	132.1	131.6
Raw 3	148.0	132.0	131.9
Suppressed	Muzzle	Left Ear	Right Ear
Raw 1	130.9	118.4	121.4
Raw 2	128.3	116.3	122.6
Raw 3	127.3	115.0	121.6
Raw 4	129.1	117.4	123.9
Raw 5	127.6	117.4	122.6
Raw 6	127.3	116.0	124.4
Raw 7	127.8	116.5	124.8
Raw 8	127.6	117.4	122.9
Raw 9	128.4	117.6	123.3
Raw 10	128.5	118.8	122.1

Unsuppressed Raw dB	Actual dB	
1	147.0	
2	147.3	
3	148.0	
Shot	Raw dB	Actual dB
1	130.9	140.9
2	128.3	138.3
3	127.3	137.3
4	129.1	139.1
5	127.6	137.6
6	127.3	137.3
7	127.8	137.8
8	127.6	137.6
9	128.4	138.4
10	128.5	138.5

Unsuppressed Raw dB	Actual dB	
1	131.8	
2	132.1	
3	132.0	
Shot	Raw dB	Actual dB
1	118.4	138.4
2	116.3	136.3
3	115.0	135.0
4	117.4	137.4
5	117.4	137.4
6	116.0	136.0
7	116.5	136.5
8	117.4	137.4
9	117.6	137.6
10	118.8	138.8

Unsuppressed Raw dB	Actual dB	
1	131.6	
2	131.6	
3	131.9	
Shot	Raw dB	Actual dB
1	121.4	141.4
2	122.6	142.6
3	121.6	141.6
4	123.9	143.9
5	122.6	142.6
6	124.4	144.4
7	124.8	144.8
8	122.9	142.9
9	123.3	143.3
10	122.1	142.1

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/>