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Rev.00

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ANTENNA PASSIVE TEST REPORT

Application No. ZO/2021/C0005

Applicant SKULLCANDY, INC.

Manufacturer SKULLCANDY, INC.

Product Name Crusher ANC 2

Model No. S6CAW

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received2021.12.03Testing Start Date2021.12.07Testing Finish Date2022.11.14Report Issue Date2022.12.14

Yuanyu Luo

Prepared by

Reviewed By

Approved by

From 21

^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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Revision Version

Report No.	Version	Date	Memo
ZO/2021/C000501	00	2022.12.14	Initial creation of report



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General Information 1

1.1 Testing Laboratory

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Hestian	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
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Contact	Simon Ling
Tel.	+86 (0) 755 2601 2053
Fax	+86 (0) 755 2671 0594
E-mail	Simon.Ling@sgs.com

1.2 Details of Applicant

Applicant's Name	SKULLCANDY, INC.
Applicant's Address	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Contact	James Nance
Tel.	1(435) 729-2485
Fax	N/A
E-mail	James.Nance@skullcandy.com

1.3 Details of Manufacturer

Manufacturer's Name	SKULLCANDY, INC.
IIVIani itacti irar e Andraee	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Contact	James Nance
Tel.	1(435) 729-2485
Fax	N/A
E-mail	James.Nance@skullcandy.com



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1.4 General Description of EUT

Device Description:	Crusher ANC 2
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	S6CAW
Hardware Version:	N/A
Software Version:	N/A

1.5 Test Procedure

Testing is performed according to the ANSI/IEEE Std 149-2008.





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1.6 Test Specification

Identity	Document Title	
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas	

1.7 Laboratory Environment

Temperature	Min. =19°C → Max. = 25°C		
Relative humidity	Min. =40% · Max. =72%		
Shield effect	0.7-6GHz > 100dB		
Ground resistance	<0.5Ω		





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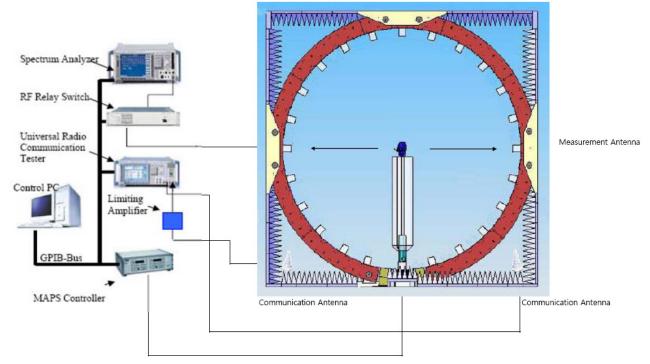
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OTA Measurements System Configuration 2

2.1 Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m



F-1. OTA Measurement System Configuration





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3 **Test Equipment List**

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2022/04/11	2023/04/10
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.	N/A	N/A
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.	N/A	N/A
SAM V4.5BS Head Phantom	Head Phantom S/N 3609	SPEAG	NCR	NCR





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Measurement Uncertainty 4

	J	
Item	2400-2500 MHz (dB)	
Gain	0.88	
Efficiency	0.88	
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2		





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Test Results 5

Free Space #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-2.68	53.92	3.21	
2355	-2.61	54.78	3.16	
2360	-2.41	57.45	3.45	
2365	-2.45	56.90	3.32	
2370	-2.49	56.35	3.31	
2375	-2.58	55.16	3.19	
2380	-2.55	55.55	3.24	
2385	-2.56	55.52	3.30	
2390	-2.49	56.41	3.29	
2395	-2.35	58.15	3.53	
2400	-2.38	57.75	3.43	
2402	-2.36	58.10	3.52	
2405	-2.33	58.45	3.54	
2410	-2.37	57.96	3.47	
2415	-2.39	57.66	3.43	
2420	-2.49	56.42	3.20	
2425	-2.49	56.39	3.18	
2430	-2.53	55.88	3.10	
2435	-2.51	56.08	3.10	
2440	-2.46	56.70	3.16	
2441	-2.47	56.60	3.16	
2445	-2.48	56.47	3.14	
2450	-2.52	55.98	3.06	
2455	-2.59	55.05	2.99	
2460	-2.67	54.06	2.88	

Beside Head #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-4.08	39.09	2.52	
2355	-4.05	39.38	2.60	
2360	-3.83	41.37	2.77	
2365	-3.89	40.85	2.74	
2370	-3.96	40.17	2.64	
2375	-4.06	39.23	2.57	
2380	-4.08	39.12	2.54	
2385	-4.07	39.17	2.58	
2390	-4.03	39.49	2.60	
2395	-3.84	41.29	2.83	
2400	-3.89	40.81	2.73	
2402	-3.90	40.70	2.64	
2405	-3.83	41.42	2.75	
2410	-3.86	41.11	2.77	
2415	-3.88	40.92	2.72	
2420	-3.93	40.42	2.71	
2425	-3.94	40.38	2.66	
2430	-3.92	40.53	2.72	
2435	-3.93	40.46	2.65	
2440	-3.83	41.39	2.77	
2441	-3.84	41.30	2.79	
2445	-3.86	41.11	2.66	
2450	-3.84	41.33	2.73	
2455	-3.90	40.78	2.71	
2460	-3.99	39.93	2.60	



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2465	-2.66	54.20	2.96
2470	-2.81	52.39	2.84
2475	-2.77	52.87	2.85
2480	-2.90	51.30	2.70
2482	-2.89	51.45	2.58
2485	-2.82	52.22	2.57
2490	-2.81	52.35	2.61
2495	-2.64	54.49	2.61
2500	-2.59	55.11	2.79
2505	-2.60	54.98	2.68
2510	-2.65	54.32	2.83
2515	-2.88	51.48	2.57
2520	-2.98	50.35	2.46
2525	-3.14	48.47	2.32
2530	-3.17	48.21	2.25
2535	-3.24	47.47	2.36
2540	-3.26	47.19	2.31
2545	-3.19	47.95	2.60
2550	-3.30	46.78	2.47
2555	-3.32	46.52	2.56
2560	-3.50	44.70	2.27
2565	-3.54	44.22	2.20
2570	-3.67	42.95	1.99
2575	-3.75	42.15	1.84
2580	-3.70	42.63	1.93

2465	-3.95	40.31	2.65
2470	-4.11	38.83	2.43
2475	-4.04	39.47	2.48
2480	-4.19	38.07	2.22
2482	-4.15	38.45	2.35
2485	-4.07	39.15	2.30
2490	-4.06	39.24	2.34
2495	-3.86	41.09	2.52
2500	-3.81	41.61	2.66
2505	-3.80	41.69	2.66
2510	-3.81	41.59	2.67
2515	-4.05	39.35	2.27
2520	-4.12	38.77	2.06
2525	-4.23	37.74	1.92
2530	-4.22	37.87	1.89
2535	-4.23	37.75	1.89
2540	-4.21	37.89	1.87
2545	-4.08	39.07	2.10
2550	-4.18	38.21	1.88
2555	-4.15	38.50	1.99
2560	-4.29	37.23	1.76
2565	-4.28	37.32	1.91
2570	-4.35	36.70	1.90
2575	-4.43	36.09	1.85
2580	-4.27	37.39	2.24



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Beside Head #2			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.43	45.44	3.73
2355	-3.38	45.89	3.86
2360	-3.18	48.11	4.10
2365	-3.21	47.79	4.12
2370	-3.24	47.40	4.01
2375	-3.33	46.40	3.95
2380	-3.34	46.33	3.86
2385	-3.37	46.02	3.84
2390	-3.30	46.83	3.88
2395	-3.15	48.45	4.04
2400	-3.17	48.21	3.95
2402	-3.13	48.62	3.93
2405	-3.10	48.95	3.97
2410	-3.12	48.71	3.88
2415	-3.11	48.88	3.88
2420	-3.16	48.33	3.76
2425	-3.11	48.87	3.81
2430	-3.12	48.71	3.78
2435	-3.07	49.36	3.98
2440	-2.97	50.45	4.07
2441	-2.98	50.39	4.04
2445	-2.93	50.94	4.28
2450	-2.89	51.36	4.29
2455	-2.89	51.44	4.33
2460	-2.90	51.24	4.15
2465	-2.85	51.82	4.13

Beside Head #3			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.80	41.69	3.09
2355	-3.78	41.91	3.11
2360	-3.59	43.74	3.38
2365	-3.64	43.23	3.29
2370	-3.71	42.54	3.20
2375	-3.82	41.51	3.06
2380	-3.85	41.24	3.02
2385	-3.85	41.19	3.03
2390	-3.78	41.92	3.16
2395	-3.57	43.93	3.50
2400	-3.58	43.87	3.53
2402	-3.55	44.11	3.51
2405	-3.50	44.72	3.67
2410	-3.52	44.41	3.64
2415	-3.54	44.31	3.67
2420	-3.62	43.41	3.49
2425	-3.61	43.60	3.50
2430	-3.64	43.25	3.31
2435	-3.60	43.69	3.37
2440	-3.49	44.76	3.43
2441	-3.50	44.69	3.39
2445	-3.43	45.40	3.64
2450	-3.37	46.05	3.87
2455	-3.33	46.46	3.96
2460	-3.35	46.22	4.01
2465	-3.28	46.99	4.04



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2470	-2.96	50.61	4.06
2475	-2.90	51.27	4.05
2480	-2.97	50.42	4.00
2482	-2.95	50.73	4.03
2485	-2.86	51.80	4.11
2490	-2.79	52.65	4.21
2495	-2.59	55.12	4.40
2500	-2.52	55.97	4.41
2505	-2.51	56.15	4.44
2510	-2.50	56.22	4.31
2515	-2.66	54.25	4.10
2520	-2.70	53.67	3.97
2525	-2.83	52.14	3.83
2530	-2.84	51.94	3.78
2535	-2.89	51.41	3.73
2540	-2.89	51.45	3.78
2545	-2.78	52.76	3.99
2550	-2.84	52.01	3.90
2555	-2.81	52.30	3.94
2560	-2.92	51.00	3.79
2565	-2.92	51.01	3.79
2570	-2.99	50.24	3.72
2575	-3.03	49.74	3.67
2580	-2.97	50.50	3.84

2470	-3.37	46.06	4.04
2475	-3.27	47.09	4.09
2480	-3.31	46.66	4.09
2482	-3.26	47.22	4.27
2485	-3.16	48.28	4.23
2490	-3.03	49.80	4.45
2495	-2.80	52.46	4.74
2500	-2.66	54.14	4.91
2505	-2.62	54.64	5.03
2510	-2.60	54.95	4.97
2515	-2.74	53.19	4.83
2520	-2.81	52.36	4.71
2525	-2.91	51.20	4.65
2530	-2.92	51.06	4.62
2535	-2.94	50.86	4.64
2540	-2.93	50.97	4.71
2545	-2.79	52.61	4.86
2550	-2.83	52.16	4.83
2555	-2.77	52.86	4.87
2560	-2.83	52.11	4.82
2565	-2.81	52.32	4.81
2570	-2.82	52.22	4.79
2575	-2.85	51.86	4.79
2580	-2.73	53.33	4.99
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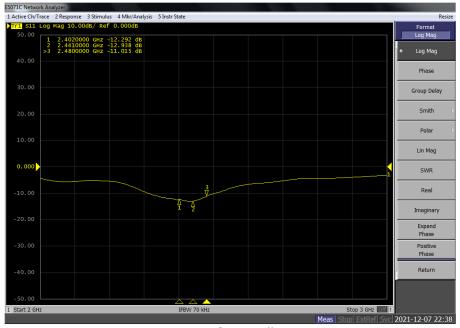
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Pattern Plots

6.1 Return Loss



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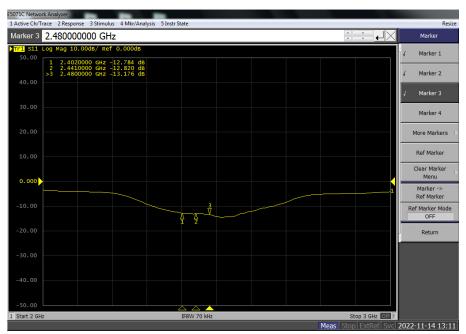


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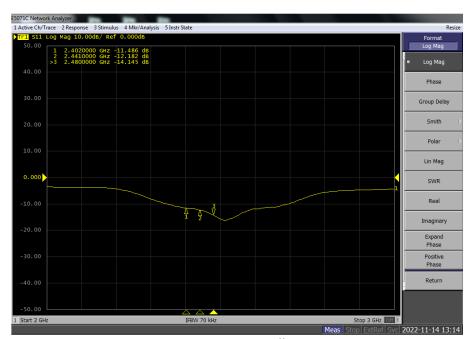
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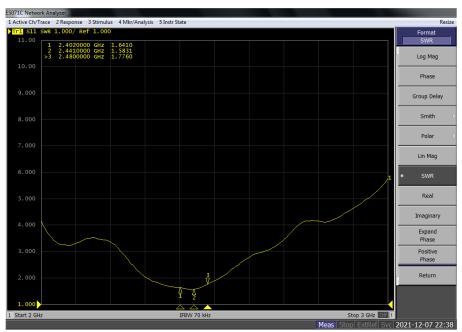
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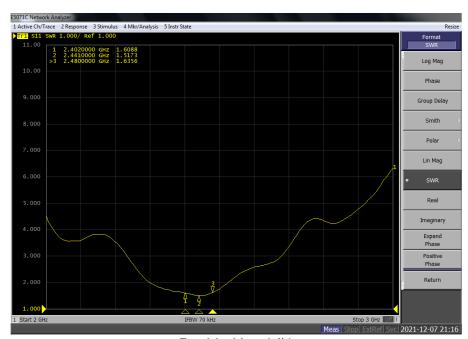
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6.2 VSWR



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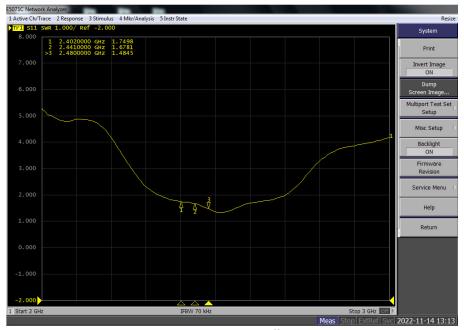
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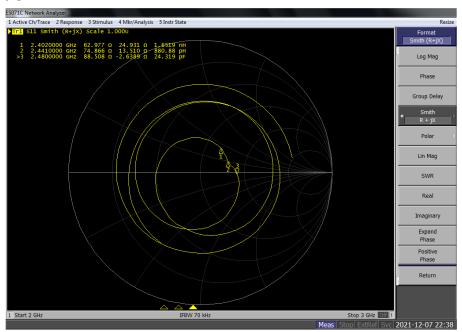


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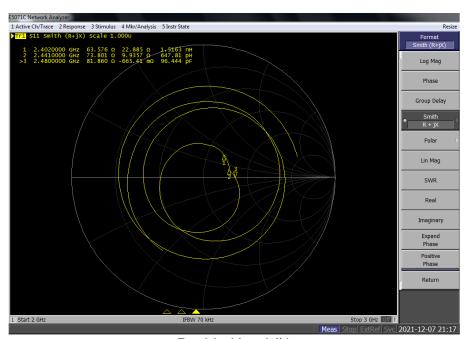
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6.3 Stimulus



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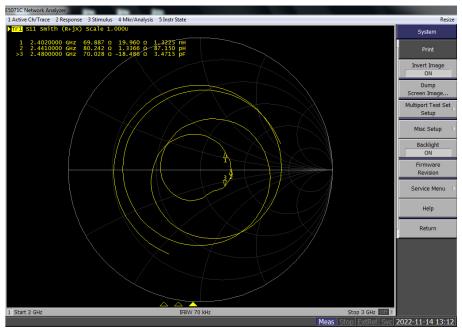


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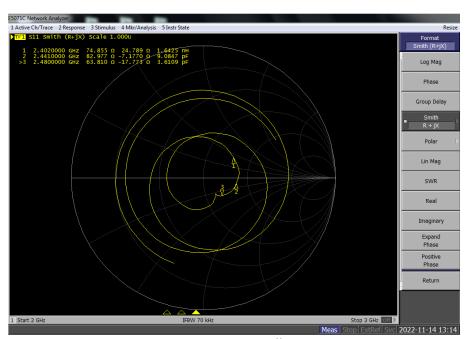
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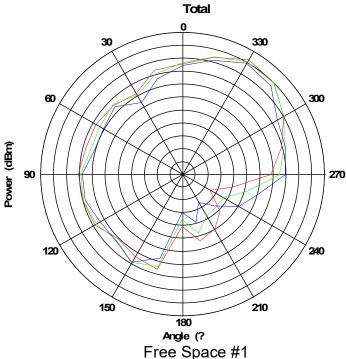


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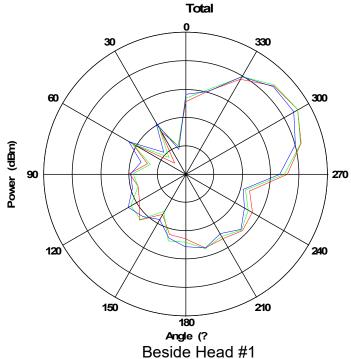
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2-D Antenna Pattern(Theta=90°)



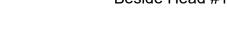


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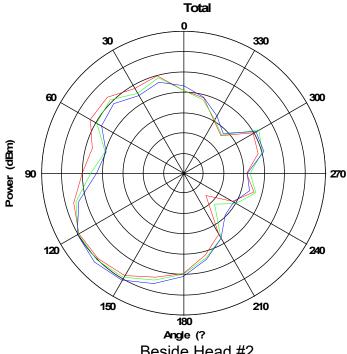
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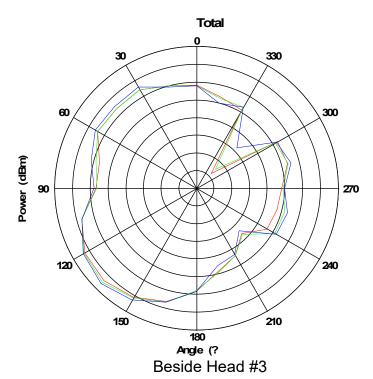
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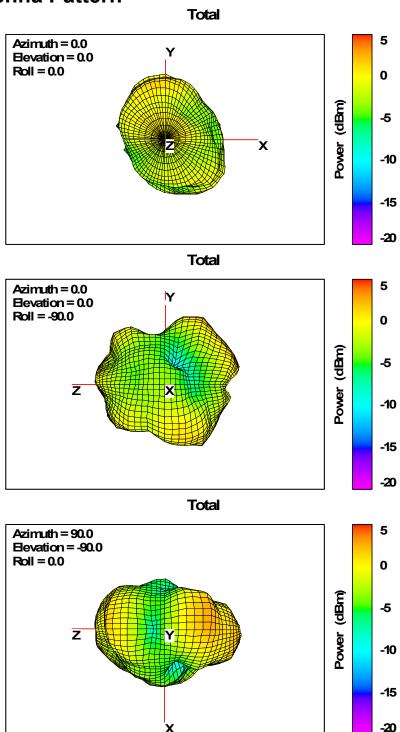
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8 3-D Antenna Pattern







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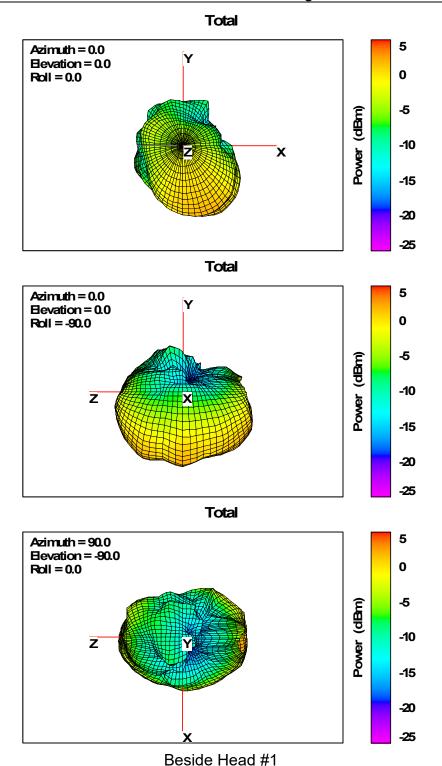
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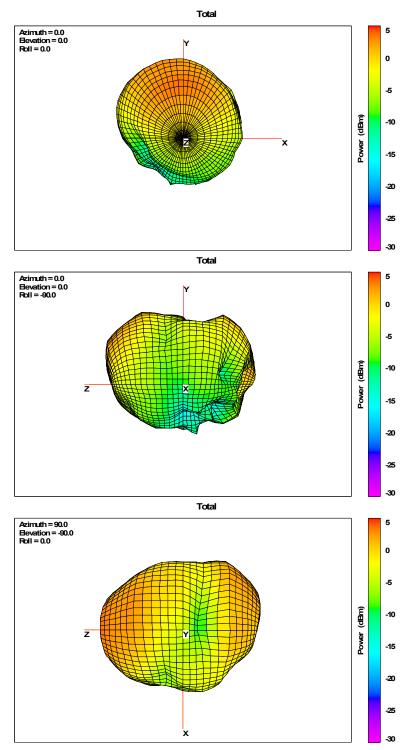
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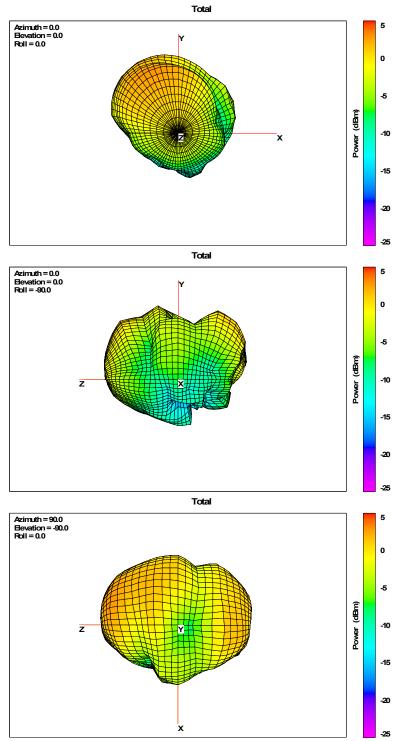
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The EUT and Test Configuration 9



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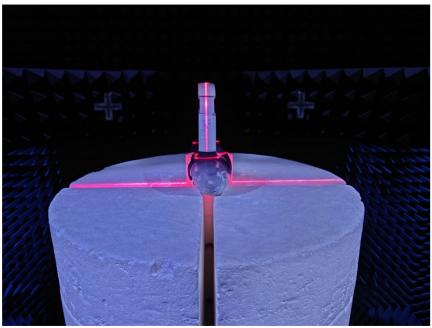


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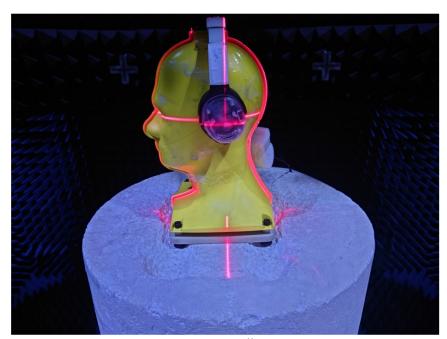
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Free Space #1 View



Beside Head #1 View



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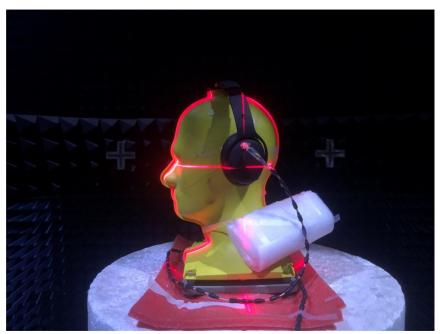


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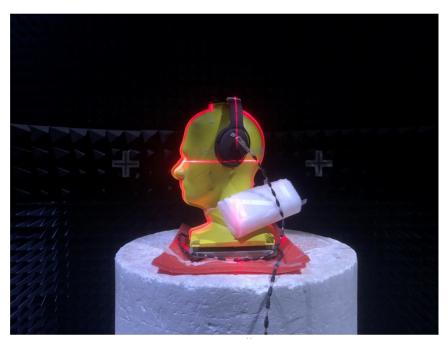
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Beside Head #2 View



Beside Head #3 View



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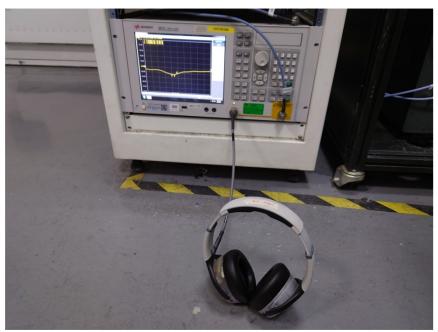


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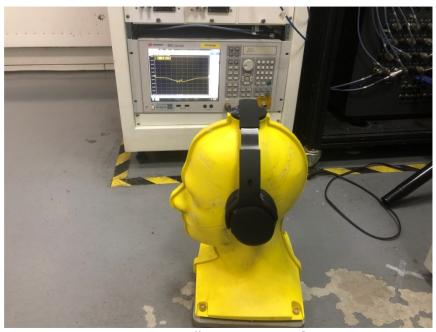


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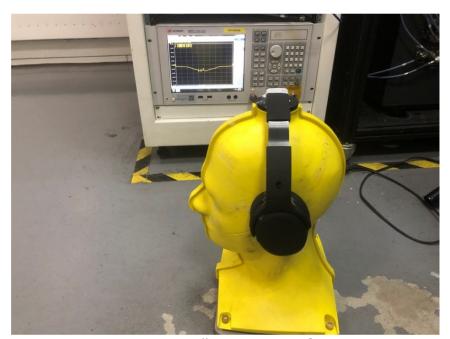
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