

Shenzhen Branch

Report No.: ZEWM2211001363OA02

Rev.00

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ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2211001363OA **Applicant** SKULLCANDY, INC. Manufacturer SKULLCANDY, INC.

SMOKIN' BUDS / SMOKIN' BUDS XT **Product Name**

Model No. S2TAW

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2022.11.07 **Testing Start Date** 2022.11.07 **Testing Finish Date** 2022.11.09 **Report Issue Date** 2023.03.03

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

Yuanyu Luo

Prepared by

Max. Huang

Reviewed By

Irvin 11

Approved by





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Revision Version

Report No.	Version	Date	Memo
ZEWM2211001363OA02	00	2023.03.03	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
LAMATAGE	No. 1 Workshop, M-10, Middle section, Science & Technology
	Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Ervin Li
Tel.	+86 18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@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) 729-2698
Fax	N/A
E-mail	james.nance@skullcandy.com

1.3 Details of Manufacturer

Manufacturer's Name	SKULLCANDY, INC.
Manufacturer's Address	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Contact	James Nance
Tel.	1(435) 729-2698
Fax	N/A
E-mail	james.nance@skullcandy.com



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1.4 General Description of EUT

Device Description:	SMOKIN' BUDS / SMOKIN' BUDS XT
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	S2TAW
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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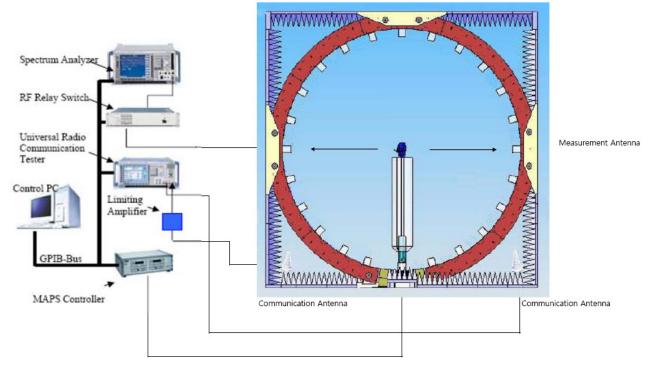
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OTA Measurements System Configuration 2

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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Test Equipment List 3

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





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Measurement Uncertainty 4

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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 Left #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-5.01	31.56	1.96	
2355	-4.92	32.23	2.11	
2360	-4.84	32.82	2.29	
2365	-4.93	32.17	2.23	
2370	-4.95	31.96	2.36	
2375	-5.05	31.25	2.21	
2380	-4.96	31.94	2.47	
2385	-5.01	31.58	2.33	
2390	-4.88	32.54	2.57	
2395	-4.88	32.48	2.45	
2400	-4.91	32.26	2.47	
2402	-4.86	32.70	2.66	
2405	-4.92	32.24	2.46	
2410	-4.92	32.21	2.46	
2415	-4.90	32.38	2.56	
2420	-4.93	32.17	2.50	
2425	-4.89	32.44	2.67	
2430	-4.94	32.05	2.56	
2435	-4.90	32.34	2.77	
2440	-4.85	32.73	2.68	
2441	-4.83	32.87	2.73	
2445	-4.84	32.83	2.89	
2450	-4.87	32.62	2.67	
2455	-4.91	32.29	2.78	
2460	-4.92	32.18	2.61	

Free Space Right #1				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-5.47	28.41	1.83	
2355	-5.38	29.00	1.82	
2360	-5.20	30.21	2.00	
2365	-5.27	29.72	1.80	
2370	-5.32	29.35	1.82	
2375	-5.43	28.64	1.59	
2380	-5.36	29.08	1.72	
2385	-5.35	29.18	1.80	
2390	-5.24	29.91	1.92	
2395	-5.13	30.68	2.09	
2400	-5.20	30.22	2.00	
2402	-5.17	30.42	2.12	
2405	-5.16	30.48	2.08	
2410	-5.17	30.41	2.00	
2415	-5.13	30.69	2.06	
2420	-5.15	30.56	1.93	
2425	-5.11	30.83	2.06	
2430	-5.12	30.77	1.99	
2435	-5.08	31.04	2.09	
2440	-4.96	31.92	2.18	
2441	-4.95	32.00	2.21	
2445	-4.94	32.07	2.25	
2450	-4.91	32.25	2.25	
2455	-4.95	32.02	2.20	
2460	-5.00	31.62	2.18	



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2465	-4.92	32.20	2.76
2470	-5.06	31.21	2.51
2475	-5.02	31.49	2.70
2480	-5.10	30.89	2.54
2482	-5.07	31.09	2.50
2485	-4.96	31.95	2.82
2490	-4.95	31.96	2.74
2495	-4.71	33.81	3.05
2500	-4.75	33.47	2.90
2505	-4.72	33.69	2.95
2510	-4.76	33.39	2.90
2515	-4.88	32.54	2.80
2520	-4.88	32.49	2.93
2525	-5.04	31.31	2.68
2530	-5.02	31.51	2.84
2535	-5.10	30.87	2.61
2540	-5.05	31.29	2.81
2545	-4.98	31.80	2.72
2550	-4.94	32.04	2.86
2555	-4.91	32.32	2.79
2560	-4.96	31.92	2.77
2565	-4.93	32.15	2.73
2570	-5.00	31.61	2.64
2575	-5.00	31.62	2.66
2580	-5.02	31.47	2.57

2465	-4.98	31.77	2.16
2470	-5.14	30.65	2.04
2475	-5.07	31.10	2.03
2480	-5.19	30.30	2.01
2482	-5.16	30.51	2.05
2485	-5.07	31.14	2.09
2490	-5.06	31.17	2.09
2495	-4.86	32.63	2.39
2500	-4.83	32.88	2.28
2505	-4.83	32.89	2.35
2510	-4.83	32.85	2.28
2515	-5.03	31.39	2.06
2520	-5.11	30.86	2.01
2525	-5.28	29.66	1.84
2530	-5.32	29.35	1.77
2535	-5.42	28.68	1.64
2540	-5.47	28.41	1.62
2545	-5.39	28.89	1.63
2550	-5.48	28.33	1.59
2555	-5.48	28.32	1.58
2560	-5.61	27.48	1.47
2565	-5.63	27.32	1.43
2570	-5.73	26.75	1.27
2575	-5.81	26.25	1.23
2580	-5.79	26.34	1.16
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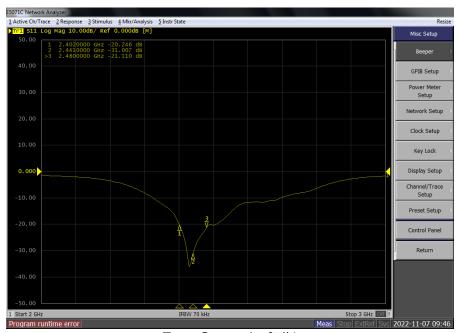
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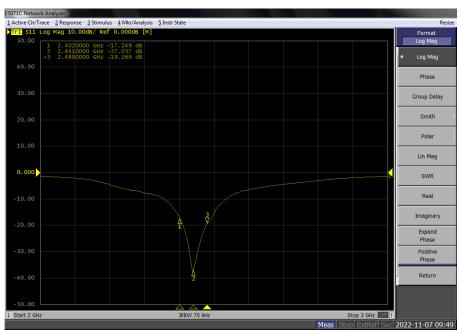
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Pattern Plots

6.1 Return Loss



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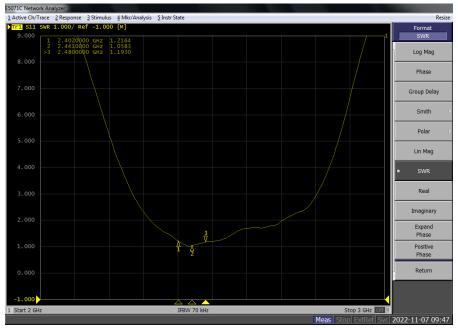
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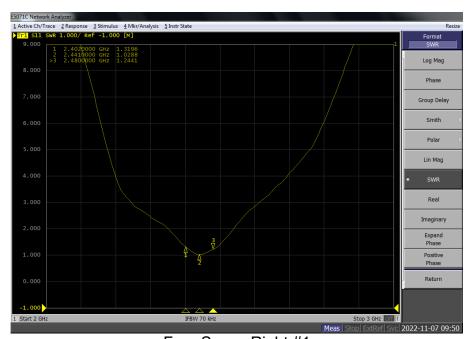
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6.2 VSWR



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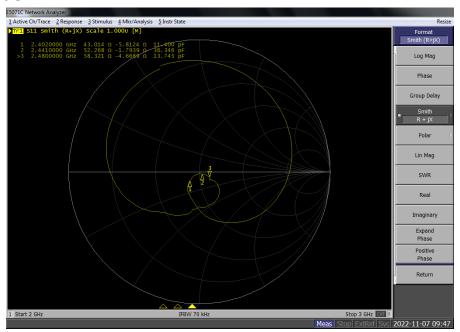
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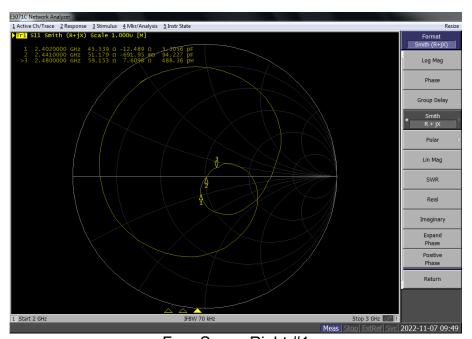
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6.3 Stimulus



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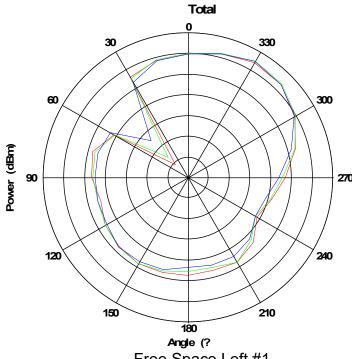


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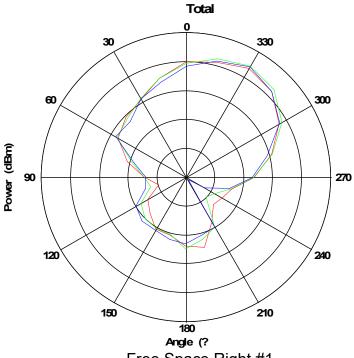
2-D Antenna Pattern(Theta=90°)



2480 MHz

Min: -30 Scale: 5/div

Free Space Left #1



2402 MHz 2441 MHz 2480 MHz

Max: 5 Min: -20 Scale: 5/div

Free Space Right #1



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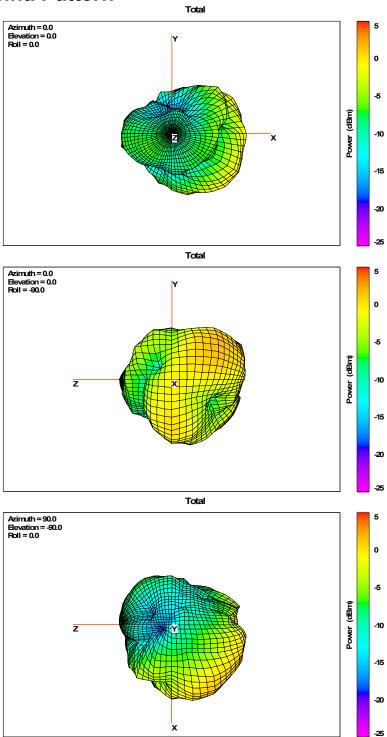


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8 3-D Antenna Pattern



Free Space Left #1



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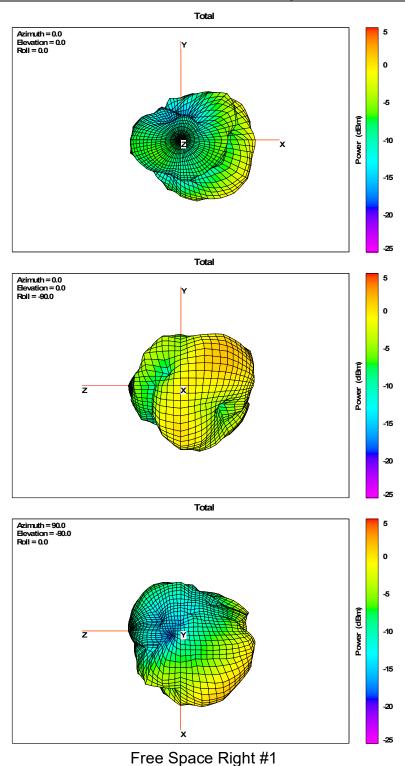
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The EUT and Test Configuration 9

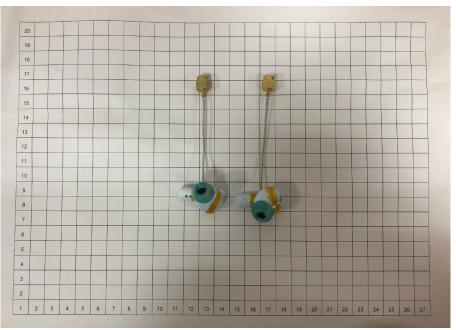


Photo of EUT #1



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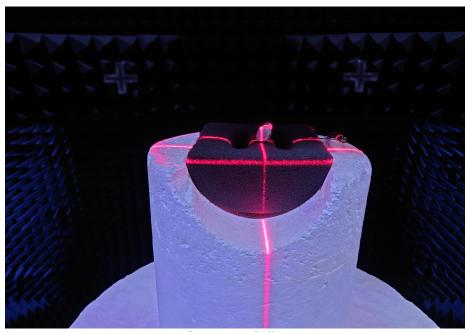


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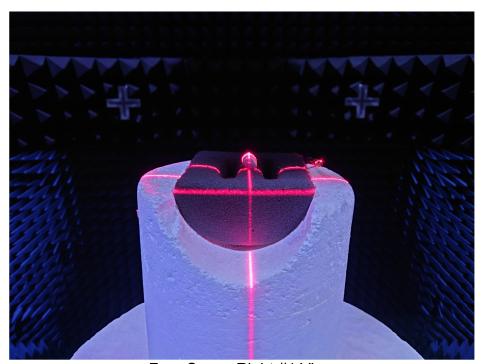
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Free Space Left #1 View



Free Space Right #1 View



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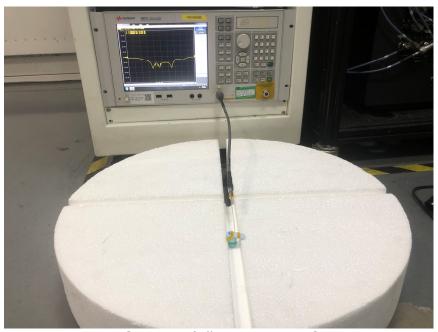


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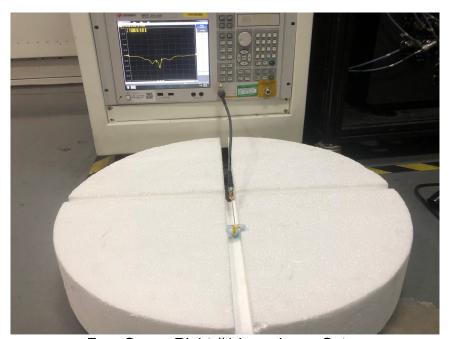
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Free Space Left #1 Impedance Setup



Free Space Right #1 Impedance Setup

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