

Shenzhen Branch

Report No.: ZEWM2209001146OA01

Rev.00

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# ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2209001146OA **Applicant** SKULLCANDY, INC. SKULLCANDY, INC. Manufacturer

**Product Name PLYR Wireless Transmitter** 

Model No. **SMDGS** 

**Standards** ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2022.08.15 **Testing Start Date** 2022.08.15 **Testing Finish Date** 2022.11.10 **Report Issue Date** 2022.12.09

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

Yuanyu Luo

Max. Huang

Approved by

Irvin Il





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# **Revision Version**

Report No.	Version	Date	Memo
ZEWM2209001146OA01	00	2022.12.09	Initial creation of report



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#### **General Information**

#### 1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
ΔΛΛΙΔΕΕ	No.1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
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.
Manufacturer'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



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#### 1.4 General Description of EUT

Device Description:	PLYR Wireless Transmitter
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	SMDGS
Hardware Version:	N/A
Software Version:	N/A

#### 1.5 Test Procedure

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

#### 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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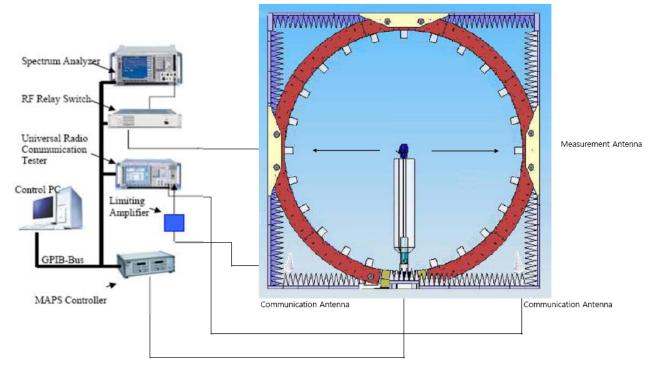
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### **OTA Measurements System Configuration**

#### 2.1 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**

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2022/4/11	2023/4/10
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** 

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





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#### **Test Results**

#1 Free Space				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-3.39	45.84	0.23	
2355	-3.41	45.62	0.10	
2360	-3.27	47.10	0.58	
2365	-3.37	46.03	0.53	
2370	-3.45	45.14	0.42	
2375	-3.52	44.41	0.20	
2380	-3.50	44.65	-0.15	
2385	-3.46	45.06	-0.04	
2390	-3.37	45.98	0.16	
2395	-3.14	48.51	0.39	
2400	-3.18	48.12	0.45	
2402	-3.17	48.15	0.46	
2405	-3.13	48.69	0.60	
2410	-3.26	47.25	0.52	
2415	-3.44	45.33	0.26	
2420	-3.64	43.27	-0.14	
2425	-3.65	43.14	0.00	
2430	-3.60	43.61	0.00	
2435	-3.47	44.97	0.22	
2440	-3.29	46.83	0.22	
2441	-3.29	46.86	0.18	
2445	-3.26	47.24	0.36	
2450	-3.25	47.27	0.53	
2455	-3.34	46.36	0.57	
2460	-3.48	44.88	0.39	

#2 Free Space				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-2.90	51.30	0.79	
2355	-2.90	51.31	0.64	
2360	-2.70	53.72	1.02	
2365	-2.74	53.19	0.84	
2370	-2.80	52.54	1.01	
2375	-2.86	51.71	0.89	
2380	-2.86	51.74	0.93	
2385	-2.85	51.84	0.76	
2390	-2.82	52.28	0.83	
2395	-2.59	55.06	1.05	
2400	-2.65	54.37	1.08	
2402	-2.65	54.36	1.24	
2405	-2.56	55.41	1.45	
2410	-2.64	54.47	1.38	
2415	-2.74	53.22	1.45	
2420	-2.86	51.73	1.15	
2425	-2.84	51.98	1.07	
2430	-2.77	52.84	0.83	
2435	-2.65	54.34	0.78	
2440	-2.48	56.45	0.97	
2441	-2.49	56.41	0.99	
2445	-2.46	56.71	1.19	
2450	-2.48	56.49	1.34	
2455	-2.58	55.22	1.44	
2460	-2.71	53.54	1.16	



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2465	-3.52	44.46	0.39
2470	-3.71	42.53	0.00
2475	-3.70	42.64	0.05
2480	-3.88	40.93	-0.17
2482	-3.87	41.03	-0.10
2485	-3.83	41.38	0.03
2490	-3.82	41.49	0.38
2495	-3.65	43.13	0.62
2500	-3.58	43.86	1.03
2505	-3.64	43.26	0.66
2510	-3.72	42.44	0.56
2515	-4.04	39.48	-0.04
2520	-4.21	37.94	-0.39
2525	-4.38	36.49	-0.38
2530	-4.42	36.12	-0.39
2535	-4.46	35.80	-0.03
2540	-4.48	35.64	-0.20
2545	-4.32	36.98	0.03
2550	-4.40	36.32	-0.34
2555	-4.40	36.31	-0.54
2560	-4.62	34.49	-0.84
2565	-4.77	33.33	-1.05
2570	-5.00	31.64	-0.93
2575	-5.23	30.00	-1.22
2580	-5.22	30.04	-0.88

2465	-2.72	53.41	1.14
2470	-2.86	51.72	0.91
2475	-2.80	52.49	0.92
2480	-2.94	50.87	1.02
2482	-2.91	51.23	1.04
2485	-2.86	51.81	0.97
2490	-2.87	51.63	1.24
2495	-2.72	53.40	1.20
2500	-2.68	53.94	1.41
2505	-2.73	53.30	1.06
2510	-2.75	53.12	0.89
2515	-3.00	50.11	0.69
2520	-3.08	49.26	0.66
2525	-3.18	48.09	0.33
2530	-3.18	48.05	0.37
2535	-3.21	47.72	0.27
2540	-3.26	47.22	0.21
2545	-3.13	48.59	0.46
2550	-3.28	47.01	0.38
2555	-3.29	46.88	0.43
2560	-3.51	44.53	0.14
2565	-3.61	43.57	0.04
2570	-3.77	42.00	-0.10
2575	-3.95	40.31	-0.36
2580	-3.87	41.01	-0.09



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#3 Free Space					
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)		
2350	-2.57	55.30	0.79		
2355	-2.67	54.12	0.69		
2360	-2.51	56.16	0.97		
2365	-2.54	55.75	0.80		
2370	-2.47	56.65	0.82		
2375	-2.44	57.07	0.72		
2380	-2.41	57.45	0.80		
2385	-2.46	56.80	0.90		
2390	-2.51	56.15	0.77		
2395	-2.29	58.95	1.10		
2400	-2.27	59.32	1.02		
2402	-2.21	60.14	1.14		
2405	-2.04	62.53	1.30		
2410	-2.01	62.93	1.32		
2415	-2.08	62.00	1.33		
2420	-2.27	59.24	1.15		
2425	-2.35	58.16	1.15		
2430	-2.33	58.48	1.19		
2435	-2.22	60.01	1.26		
2440	-1.99	63.29	1.59		
2441	-1.98	63.40	1.63		
2445	-1.91	64.39	1.55		
2450	-1.88	64.82	1.68		
2455	-1.95	63.85	1.69		
2460	-2.04	62.51	1.52		
2465	-1.97	63.53	1.77		
2470	-2.02	62.87	1.68		
2475	-1.83	65.59	1.90		
2480	-1.86	65.14	1.74		
2482	-1.81	65.87	1.75		
2485	-1.74	66.93	1.80		
2490	-1.74	67.06	1.93		
2495	-1.61	69.04	1.85		
2500	-1.51	70.58	2.24		
2505	-1.48	71.08	2.04		
2510	-1.40	72.39	2.37		
2515	-1.60	69.12	2.11		



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2520	-1.71	67.51	1.96
2525	-1.89	64.75	1.90
2530	-1.99	63.23	1.70
2535	-2.04	62.56	1.84
2540	-2.07	62.07	1.63
2545	-1.89	64.73	1.92
2550	-1.98	63.42	1.76
2555	-1.96	63.72	1.80
2560	-2.16	60.88	1.57
2565	-2.24	59.64	1.42
2570	-2.37	57.94	1.45
2575	-2.52	55.94	1.17
2580	-2.40	57.52	1.42



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#### **Pattern Plots**

#### 6.1 Return Loss



#1 Free Space



#2 Free Space



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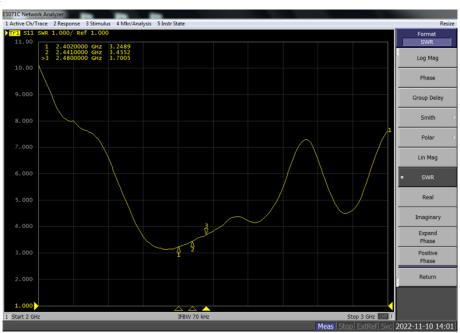
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#3 Free Space

#### **6.2 VSWR**



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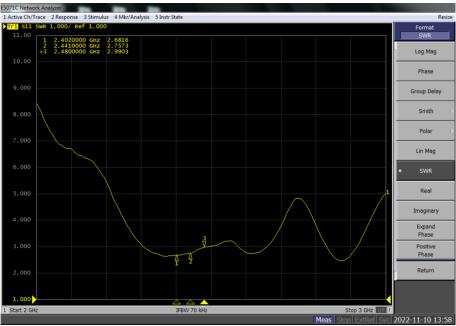


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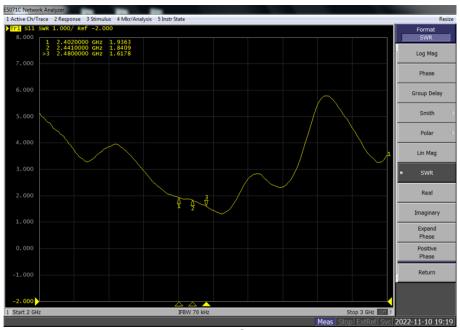
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#2 Free Space



#3 Free Space



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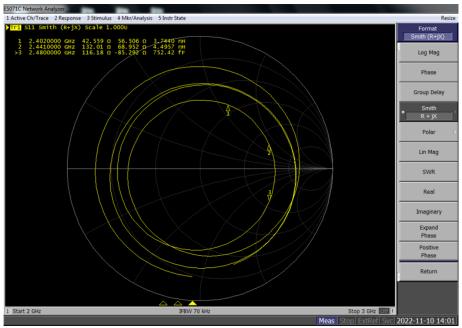
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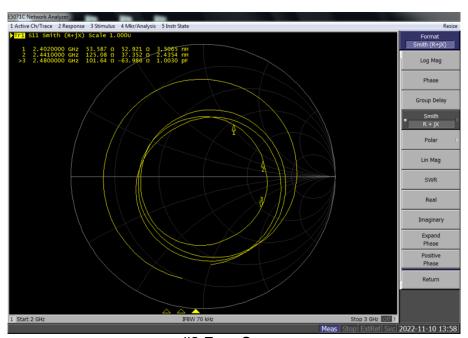
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#### 6.3 Stimulus



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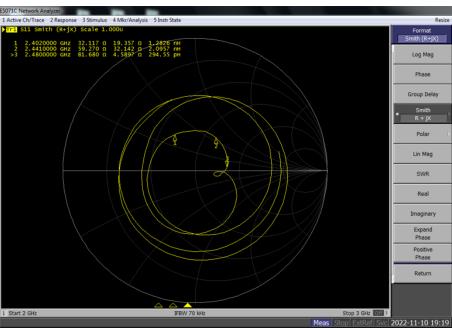


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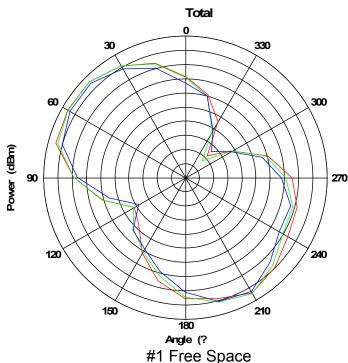
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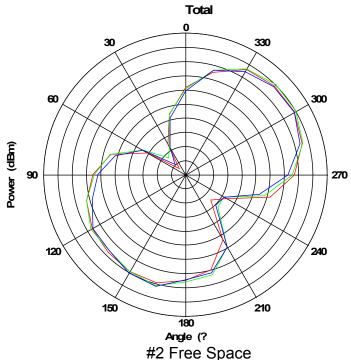
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### 2-D Antenna Pattern(Theta=90°)





Max: 0 Min: -20 Scale: 2/div







Max: 2

Min: -18 Scale: 2/div

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Max: 2

Min: -20 Scale: 2/div

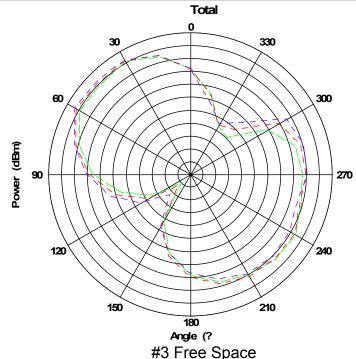
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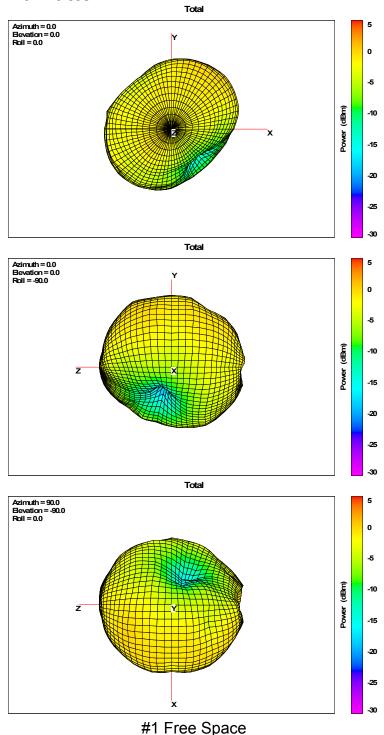
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#### 3-D Antenna Pattern





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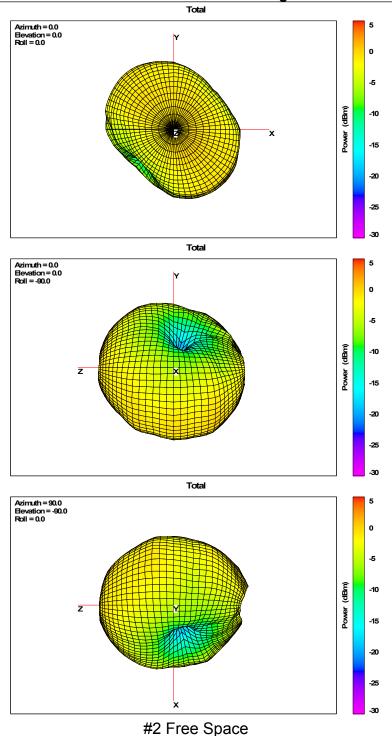


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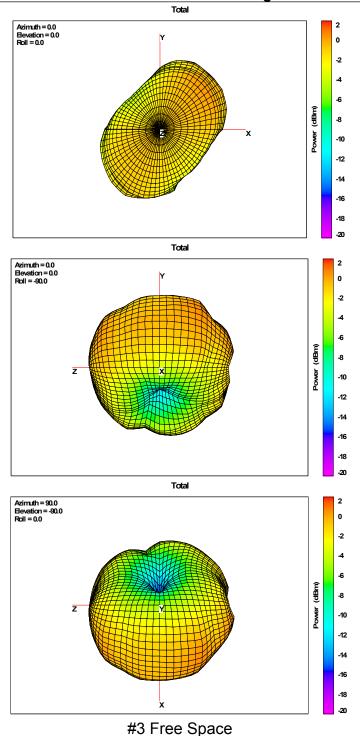


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# The EUT and Test Configuration

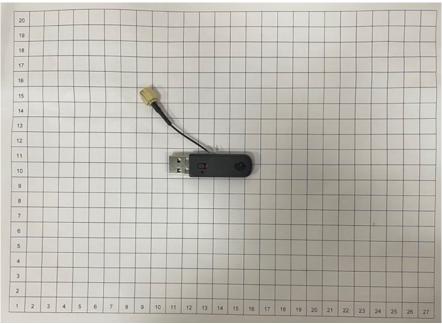


Photo of EUT #1

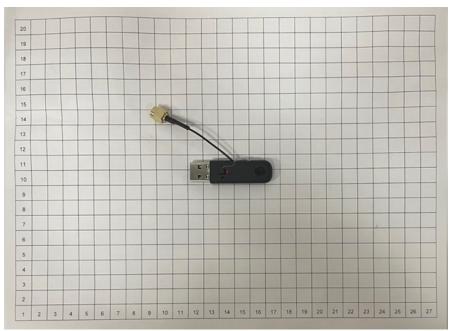


Photo of EUT #2



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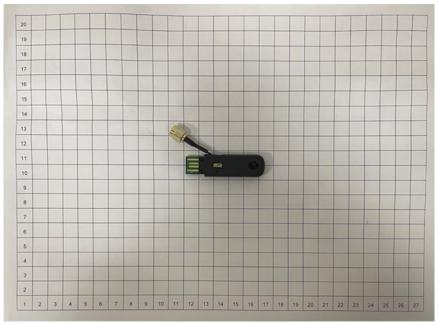
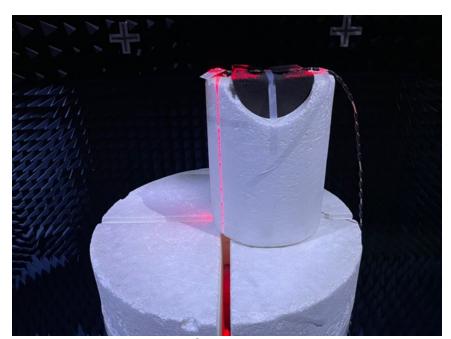


Photo of EUT #3



Free Space View #1



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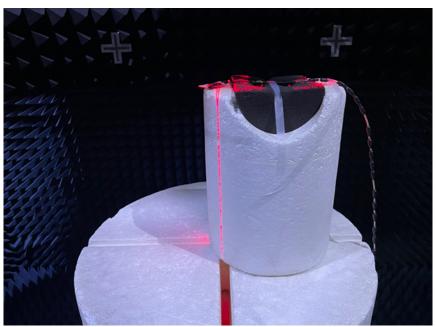


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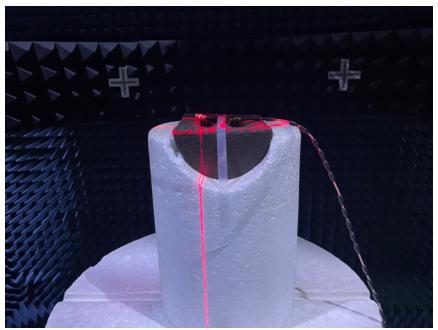
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Free Space View #2



Free Space View #3



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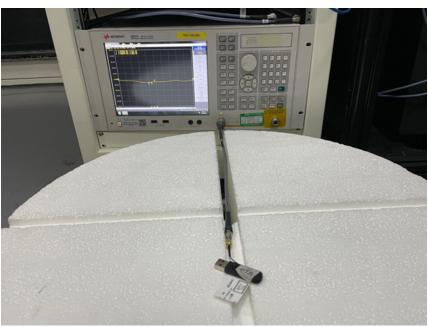


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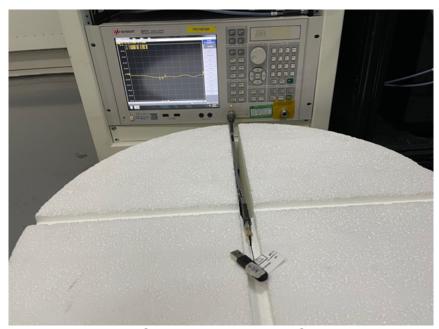
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Free Space #1 Impedance Setup



Free Space #2 Impedance Setup



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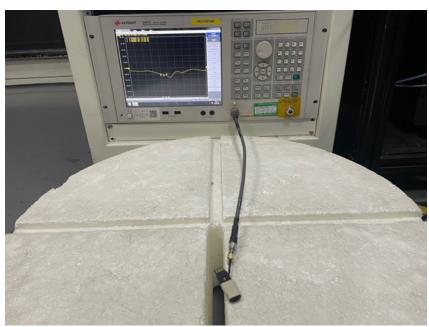


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Free Space #3 Impedance Setup

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