



SGS-CSTC Standards Technical Services Co., Ltd Shenzhen Branch

Report No.: SZOA2503000045AT01
Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2503000045AT
Applicant SKULLCANDY, INC.
Manufacturer SKULLCANDY, INC.
Product Name CRUSHER PLYR 720 Wireless Transmitter
Model No. SMDGZ
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received Mar. 03, 2025
Testing Start Date Mar. 03, 2025
Testing Finish Date Mar. 12, 2025
Report Issue Date May 15, 2025

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

Turner He

Ervin Li

Prepared by:
Turner He/ Test Engineer

Approved by:
Ervin Li/ Technical Manager



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Shenzhen Branch / SGS-CSTC Wireless Laboratory

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Revision History

Revision	Issue Date	Description
01	May 15, 2025	Initial creation of report



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1 General Information

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address	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, United States of America
Contact	ANDREW CARTER
Tel.	404-561-0830
Fax	N/A
E-mail	andrew.carter@skullcandy.com

1.3 Details of Manufacturer

Manufacturer's Name	SKULLCANDY, INC.
Manufacturer's Address	6301 N Landmark Dr Park City, UT 84098, United States of America
Contact	ANDREW CARTER
Tel.	404-561-0830
Fax	N/A
E-mail	andrew.carter@skullcandy.com



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1.4 General Description of EUT

Device Description:	SMDGZ
Device Manufacturer:	SKULLCANDY, INC.
Device Model:	CRUSHER PLYR 720 Wireless Transmitter
Hardware Version:	REV_1C
Software Version:	1.0.0.25
Air Interface Supported	2.4G proprietary
Antenna Dimension:	3.20 mm*1.60 mm*1.30 mm

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2021**.



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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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2 OTA Measurements System Configuration

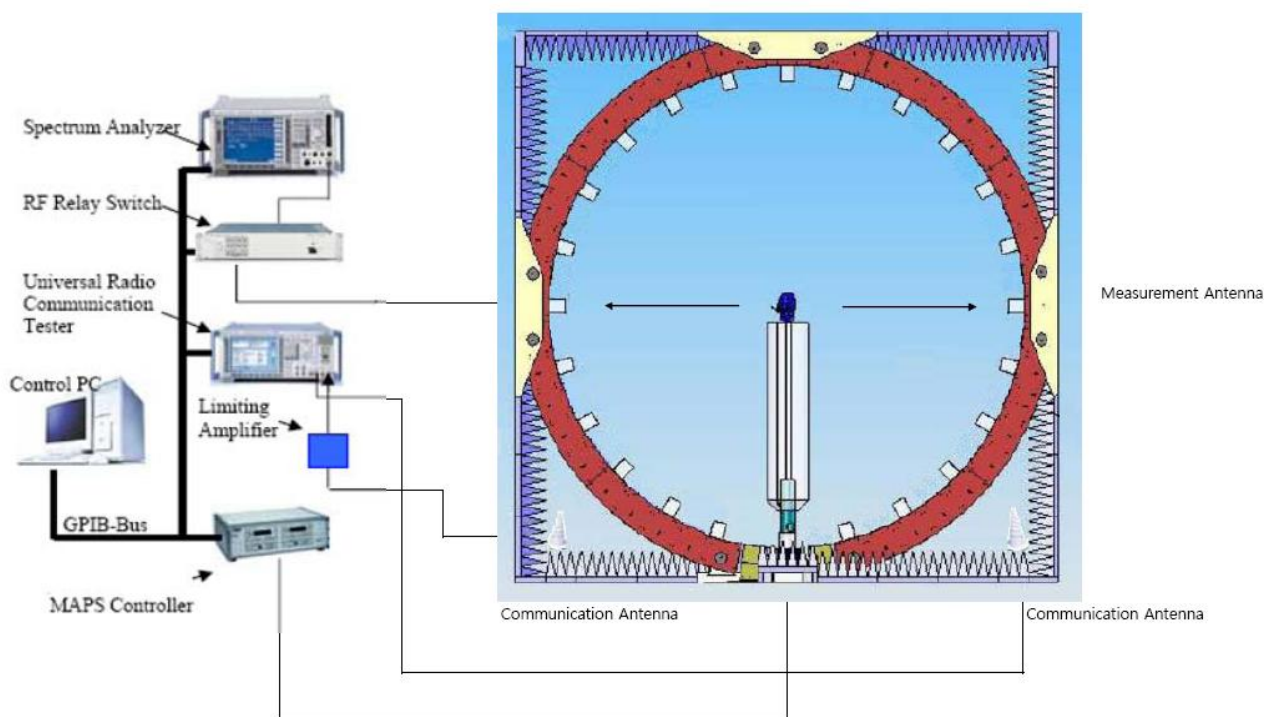
2.1 Test Configuration

Testing Condition:

- Temperature: $22 \pm 3^\circ\text{C}$
- Humidity: $< 80\%$

Measurement Facility:

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	2024/12/19	2025/12/18
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

Definition of Acronyms:
NCR: No Calibration Requirement.



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4 Measurement Uncertainty

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



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5 Test Results

Free Space #1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-2.67	54.08	1.60
2355	-2.87	51.69	1.19
2360	-2.64	54.48	1.46
2365	-2.82	52.27	1.18
2370	-3.11	48.84	1.00
2375	-3.14	48.56	1.13
2380	-3.31	46.66	0.89
2385	-3.04	49.62	1.23
2390	-3.11	48.89	1.10
2395	-2.86	51.75	1.42
2400	-3.05	49.54	1.33
2402	-3.25	47.32	1.12
2405	-3.31	46.69	0.99
2410	-3.23	47.48	1.20
2415	-3.43	45.41	0.93
2420	-3.28	46.98	1.14
2425	-3.40	45.71	1.08
2430	-3.56	44.03	1.06
2435	-3.58	43.81	1.02
2440	-3.74	42.23	0.97
2441	-3.73	42.35	1.00
2445	-3.57	43.98	1.10



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2450	-3.55	44.11	1.21
2455	-3.47	44.98	1.28
2460	-3.62	43.41	1.20
2465	-3.75	42.14	1.06
2470	-3.90	40.75	1.03
2475	-4.01	39.69	1.01
2480	-4.14	38.59	0.96
2485	-4.24	37.69	0.85
2490	-4.28	37.30	0.80
2495	-4.19	38.12	0.85
2500	-4.20	38.06	0.79
2505	-4.09	38.98	0.90
2510	-4.15	38.48	0.78
2515	-4.39	36.37	0.56
2520	-4.73	33.68	0.19
2525	-5.04	31.35	-0.08
2530	-5.32	29.39	-0.39
2535	-5.51	28.10	-0.60
2540	-5.59	27.62	-0.80
2545	-5.55	27.89	-0.85
2550	-5.61	27.49	-0.98
2555	-5.70	26.91	-1.06
2560	-5.91	25.64	-1.22
2565	-6.07	24.73	-1.27
2570	-6.20	23.98	-1.47
2575	-6.32	23.32	-1.62
2580	-6.27	23.63	-1.59



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Free Space #2			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.29	46.83	0.84
2355	-3.48	44.83	0.47
2360	-3.26	47.19	0.75
2365	-3.45	45.21	0.68
2370	-3.72	42.43	0.41
2375	-3.74	42.24	0.47
2380	-3.91	40.64	0.29
2385	-3.65	43.16	0.50
2390	-3.71	42.58	0.35
2395	-3.44	45.30	0.58
2400	-3.59	43.76	0.54
2402	-3.77	41.97	0.32
2405	-3.81	41.55	0.25
2410	-3.73	42.40	0.60
2415	-3.92	40.60	0.32
2420	-3.76	42.12	0.59
2425	-3.85	41.19	0.39
2430	-4.00	39.77	0.24
2435	-4.02	39.65	0.43
2440	-4.14	38.53	0.26
2441	-4.12	38.72	0.34
2445	-3.91	40.62	0.74
2450	-3.85	41.20	0.83



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2455	-3.73	42.37	1.00
2460	-3.85	41.17	0.91
2465	-3.95	40.24	0.78
2470	-4.07	39.14	0.72
2475	-4.16	38.36	0.47
2480	-4.25	37.62	0.28
2485	-4.28	37.34	0.30
2490	-4.24	37.67	0.51
2495	-4.05	39.33	0.83
2500	-3.98	39.96	1.05
2505	-3.82	41.48	1.36
2510	-3.83	41.36	1.25
2515	-4.06	39.31	0.99
2520	-4.35	36.69	0.73
2525	-4.62	34.53	0.58
2530	-4.83	32.90	0.40
2535	-4.95	31.99	0.33
2540	-4.95	31.97	0.35
2545	-4.84	32.77	0.41
2550	-4.86	32.63	0.38
2555	-4.93	32.17	0.27
2560	-5.11	30.81	0.10
2565	-5.24	29.90	0.05
2570	-5.35	29.16	-0.08
2575	-5.44	28.59	-0.13
2580	-5.35	29.15	-0.01



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Free Space #3			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-3.70	42.63	0.96
2355	-3.85	41.22	0.49
2360	-3.58	43.82	0.75
2365	-3.75	42.13	0.53
2370	-4.01	39.70	0.38
2375	-4.02	39.65	0.43
2380	-4.16	38.39	0.36
2385	-3.87	41.01	0.82
2390	-3.90	40.76	0.72
2395	-3.63	43.39	1.06
2400	-3.76	42.04	0.93
2402	-3.94	40.39	0.63
2405	-3.96	40.20	0.63
2410	-3.87	40.99	0.62
2415	-4.06	39.26	0.46
2420	-3.93	40.50	0.40
2425	-4.03	39.55	0.39
2430	-4.17	38.24	0.28
2435	-4.20	38.06	0.37
2440	-4.34	36.78	0.33
2441	-4.34	36.83	0.22
2445	-4.13	38.64	0.58



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2450	-4.08	39.06	0.69
2455	-3.96	40.17	0.41
2460	-4.08	39.12	0.33
2465	-4.20	38.06	0.09
2470	-4.31	37.09	0.10
2475	-4.41	36.22	-0.04
2480	-4.50	35.49	-0.15
2485	-4.59	34.73	-0.19
2490	-4.60	34.71	-0.19
2495	-4.46	35.80	-0.03
2500	-4.40	36.32	0.07
2505	-4.25	37.60	0.32
2510	-4.23	37.78	0.27
2515	-4.43	36.04	0.11
2520	-4.73	33.65	-0.12
2525	-5.03	31.41	-0.20
2530	-5.27	29.74	-0.42
2535	-5.40	28.82	-0.48
2540	-5.44	28.58	-0.53
2545	-5.31	29.42	-0.48
2550	-5.33	29.33	-0.52
2555	-5.34	29.23	-0.57
2560	-5.51	28.11	-0.64
2565	-5.63	27.38	-0.71
2570	-5.73	26.74	-0.74
2575	-5.82	26.15	-0.80
2580	-5.76	26.54	-0.58



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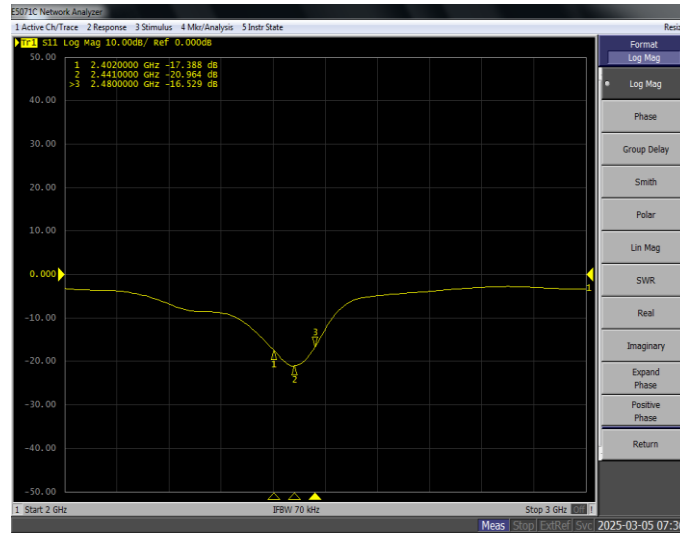
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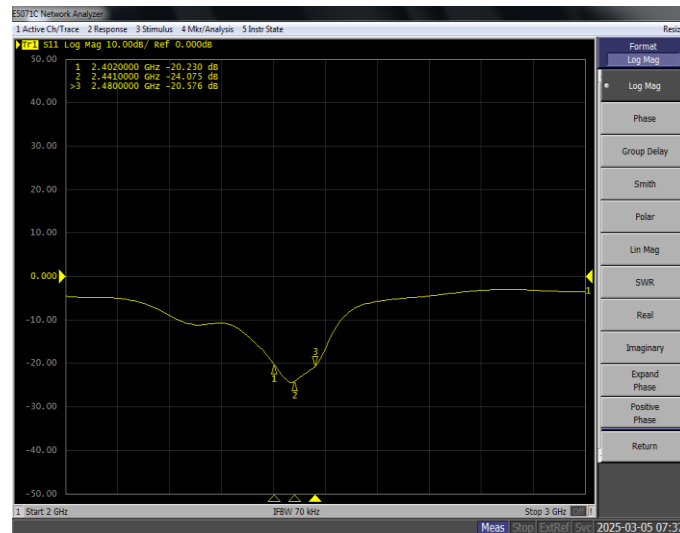
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6 Pattern Plots

6.1 Return Loss



Free Space #1



Free Space #2



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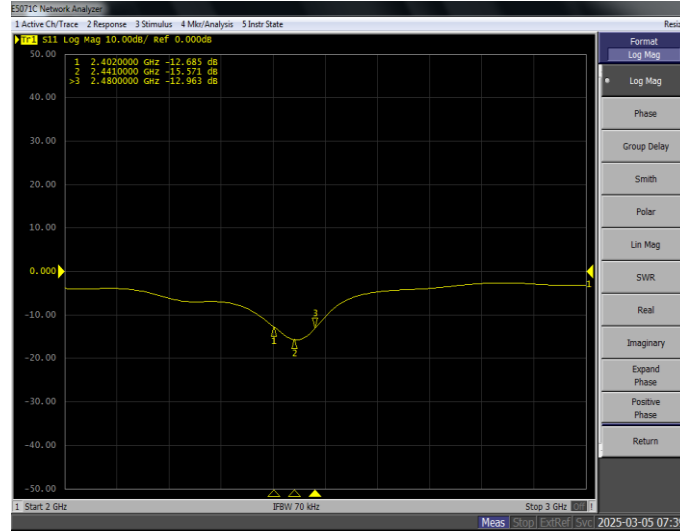
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Free Space #3



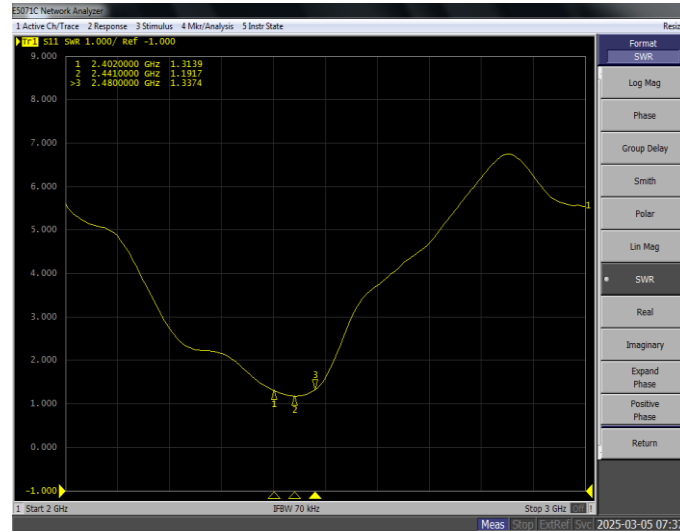
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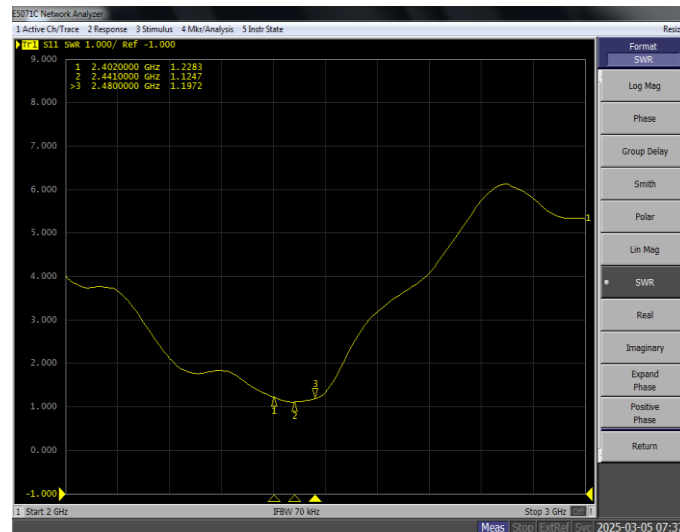
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6.2 VSWR



Free Space #1



Free Space #2



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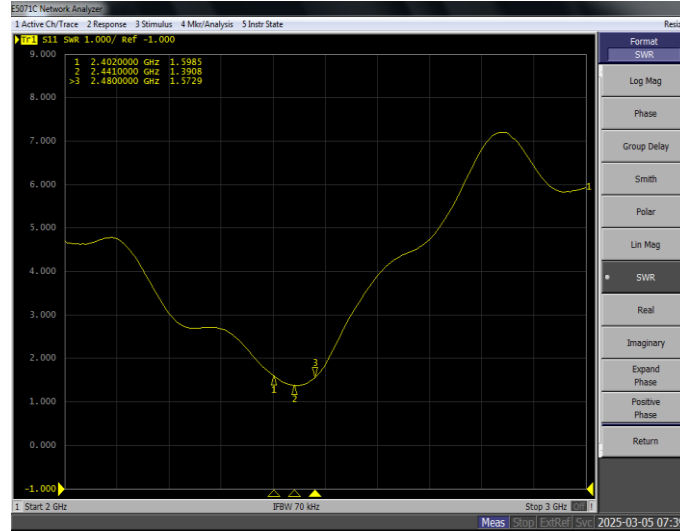
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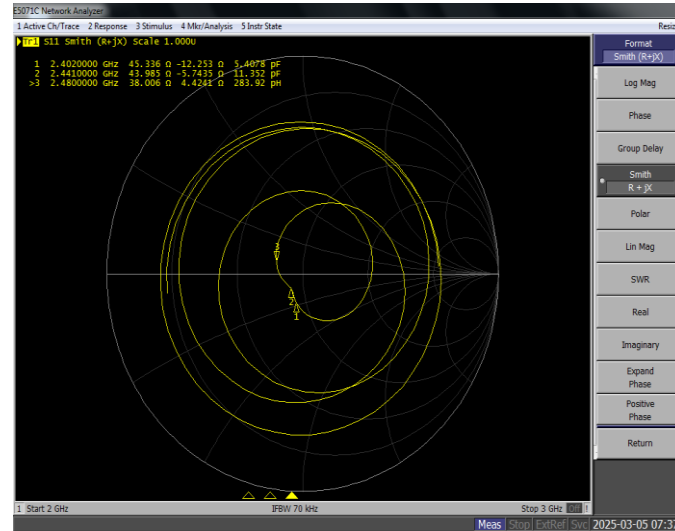
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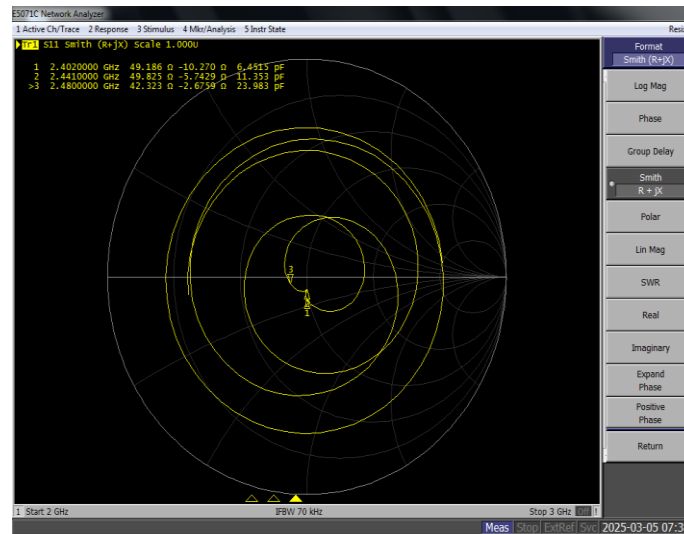
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6.3 Stimulus



Free Space #1



Free Space #2



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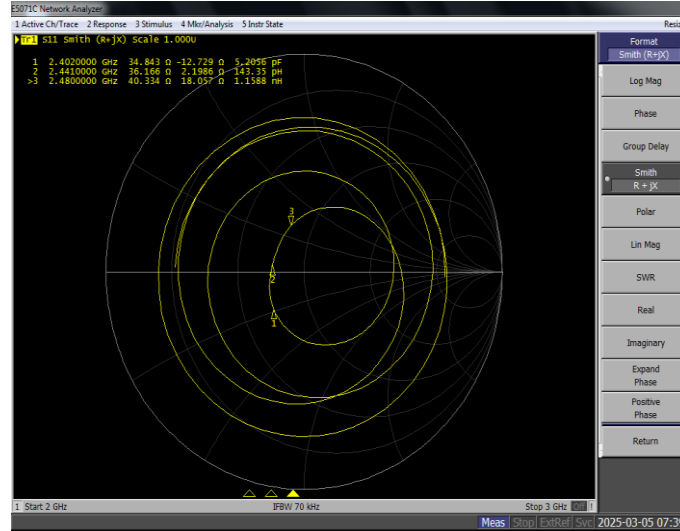
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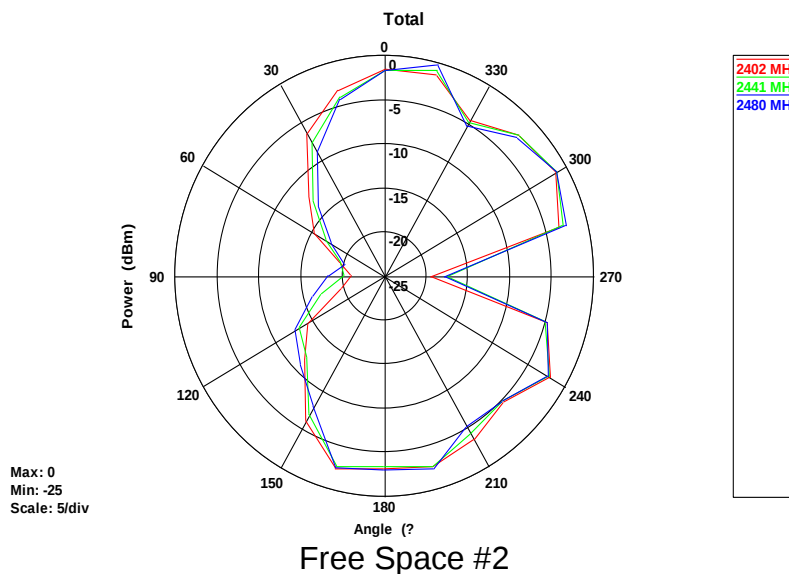
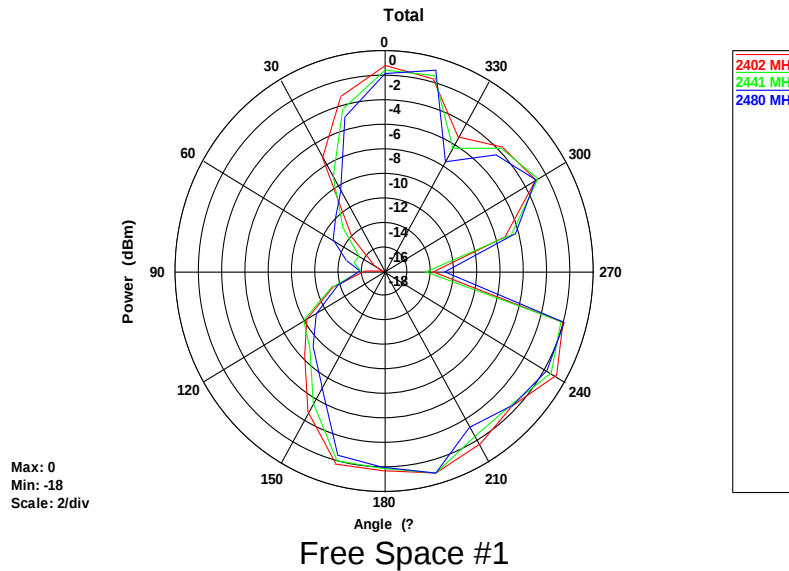
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7 2-D Antenna Pattern(Theta=90°)



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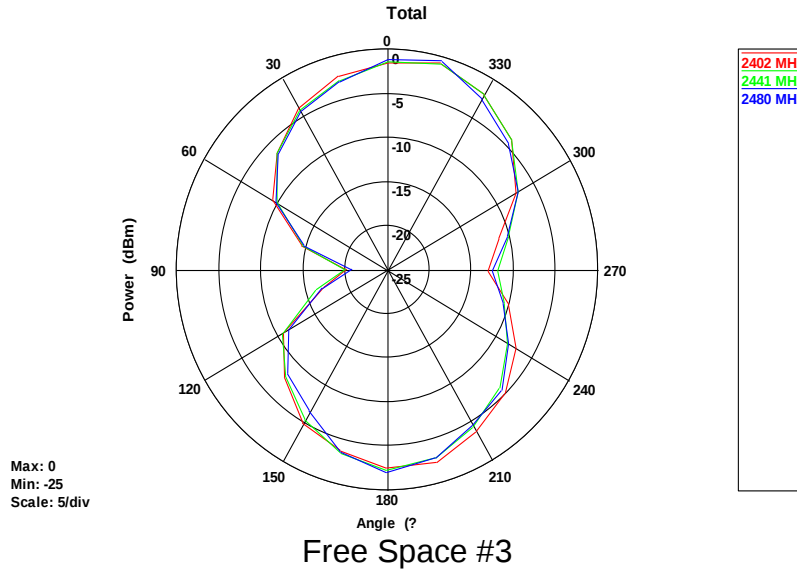
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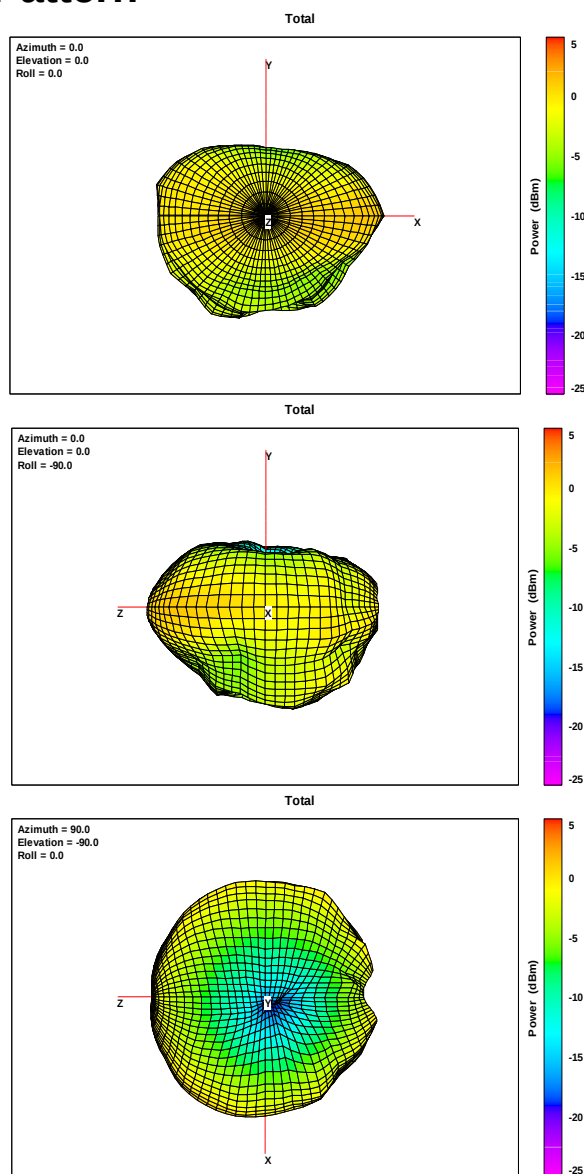
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8 3-D Antenna Pattern



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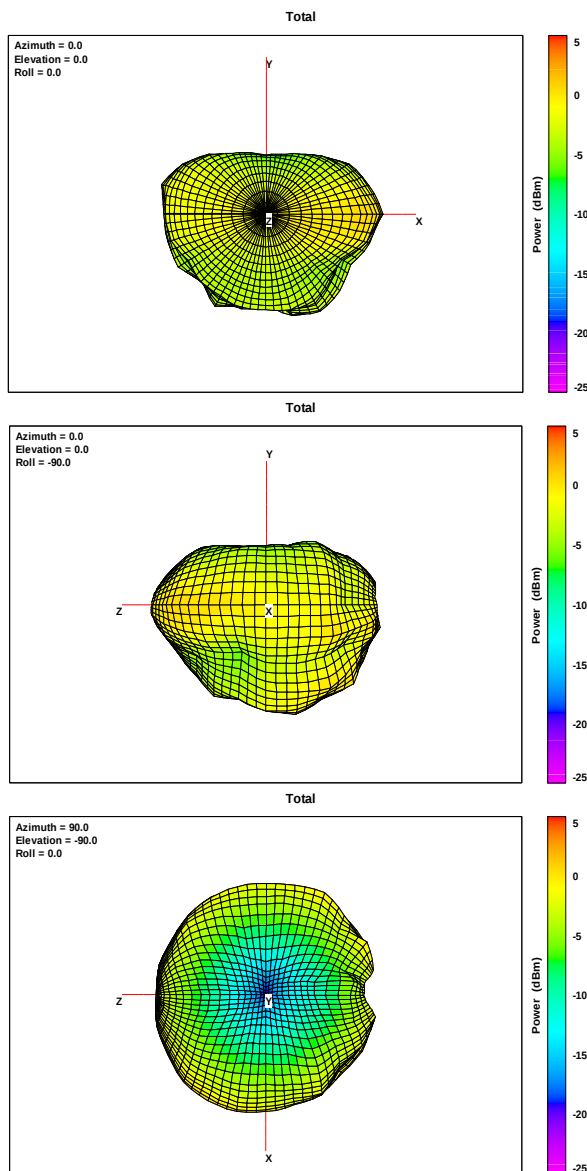


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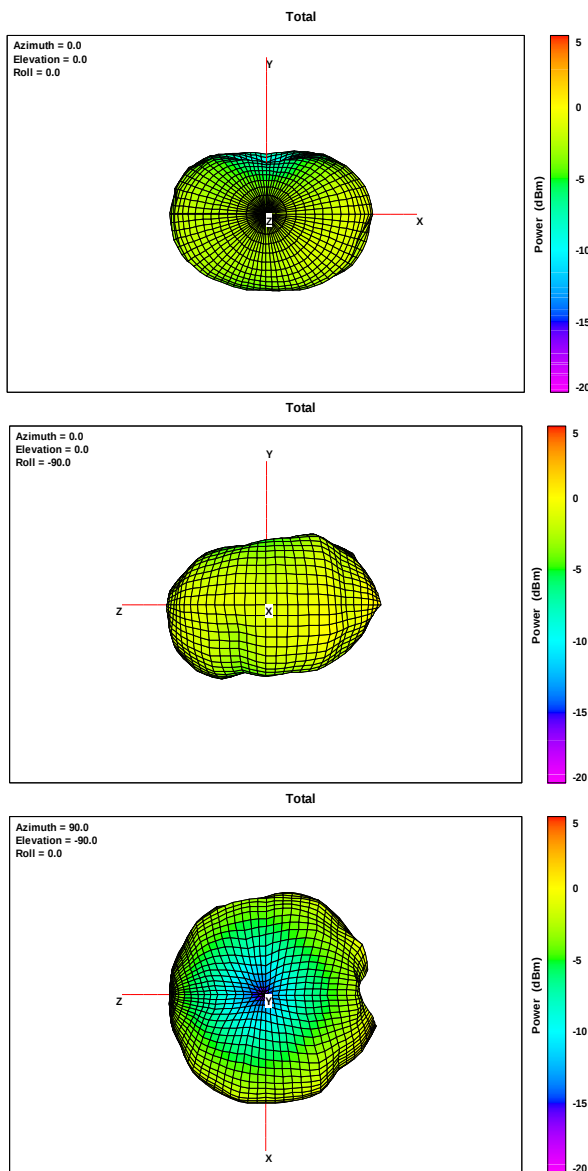


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9 The EUT and Test Configuration

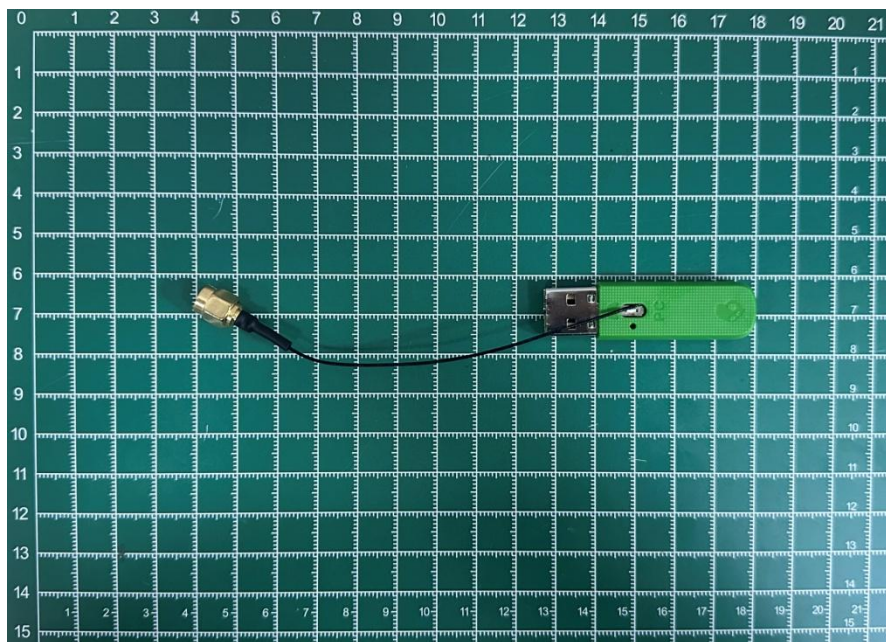


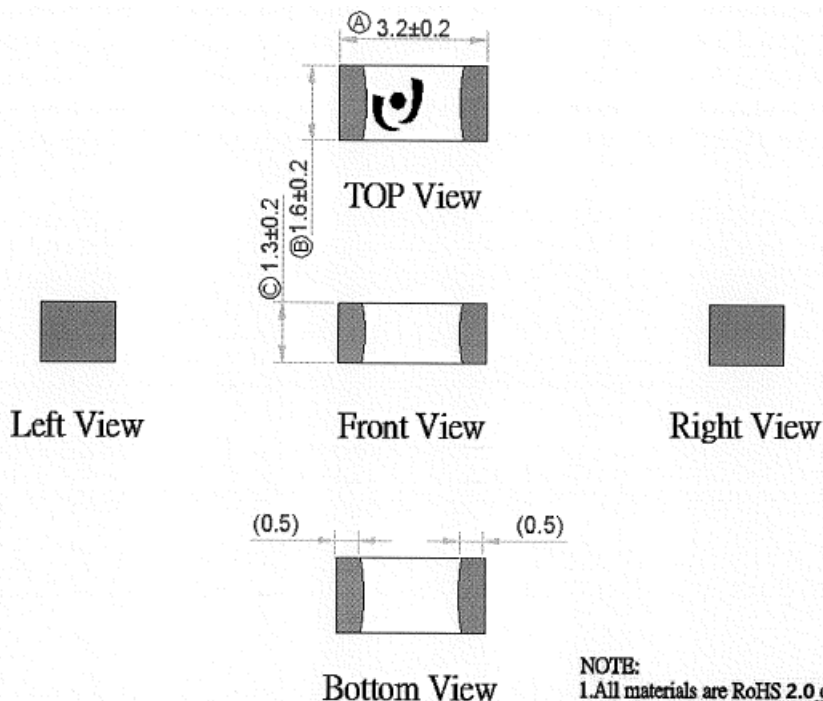
Photo of EUT



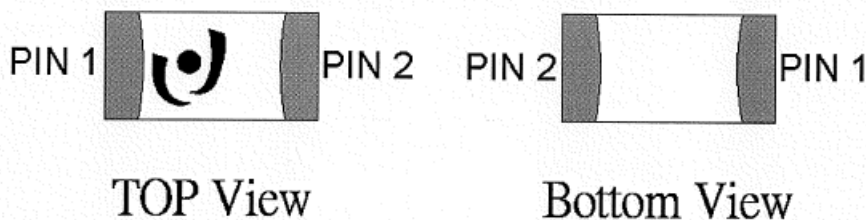
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PIN Definitions



Antenna Dimensions



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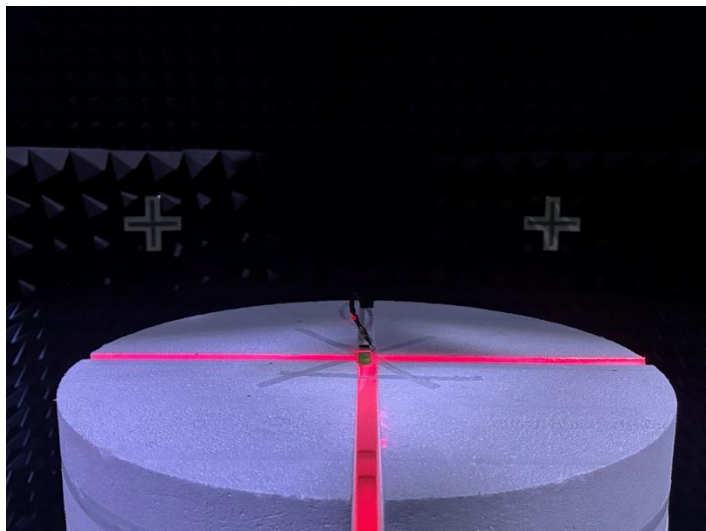
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Free Space View



Free Space Setup

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