

3D Antenna Measurement Summary Report

REPORT NO.: ORBCYD-WTW-P21090659

MODEL NAME: SNT3.5 ULTRA

TESTED DATE: 2021.11.26

ISSUED: 2021.12.8

APPLICANT: Sensolus NV

ADDRESS : Rijsenbergstraat 148D, 9000 Gent, Belgium

MANUFACTURER: Jorjin Technologies Inc.

ISSUED BY: Bureau Veritas Consumer Products Service (H.K.) Ltd.,
Taoyuan Branch Lin Kou Laboratories.

ADDRESS: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New
Taipei City, Taiwan (R.O.C)

TEST LOCATION: No. 19, Hwa Ya 2nd rd., Kueishan, Taoyuan, Taiwan,
R.O.C.

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RELEASE CONTROL RECORD

REPORT NO.	REASON FOR CHANGE	DATE ISSUED
ORBCYD-WTW-P21090659	Original release	2021.12.8

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GENERAL INFORMATION

APPLICANT:	Sensolus NV
MANUFACTURER:	Jorjin Technologies Inc.
MODEL NAME:	SNT3.5 ULTRA

Test Standard: ANSI/IEEE Std. 149 1979.

PREPARED BY : Leo Chen , **DATE :** 2021.12.8
Leo Chen / Engineer

APPROVED BY : Johnny Liu , **DATE :** 2021.12.8
Johnny Liu / Supervisor

1. Test Equipment List

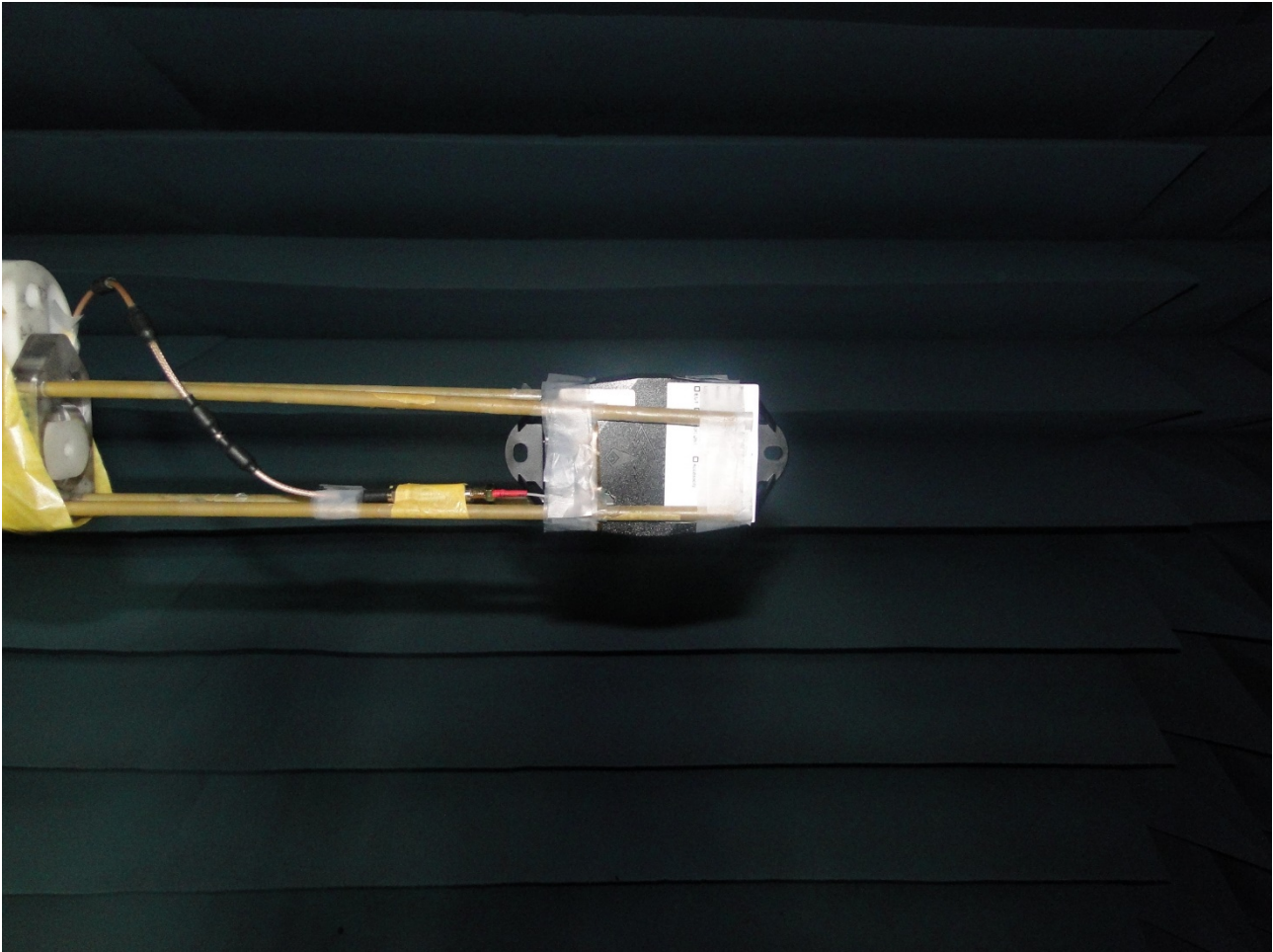
TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
ETS Anechoic Chamber	AMS-8500	N/A	N/A
Multi-Axis Positioning System	ETS 2090-OPTI	N/A	N/A
Horn Antenna	ETS 3164-06	N/A	N/A
Switch Control	Agilent 3499A	N/A	N/A
Network Analyzer	E5071C	MY46104190	2022/5/30

2. Measurement Uncertainty

Expanded Uncertainty for Measurement (k=2 or 95.45% Confidence Level) at Passive antenna test over frequency range:.

FREQUENCY RANGE	MEASUREMENT UNCERTAINTY
780~2200 MHz	1.57 dB
2200~3000 MHz	1.75 dB
3000~6000 MHz	4.17 dB

3. Testing Setup Photo



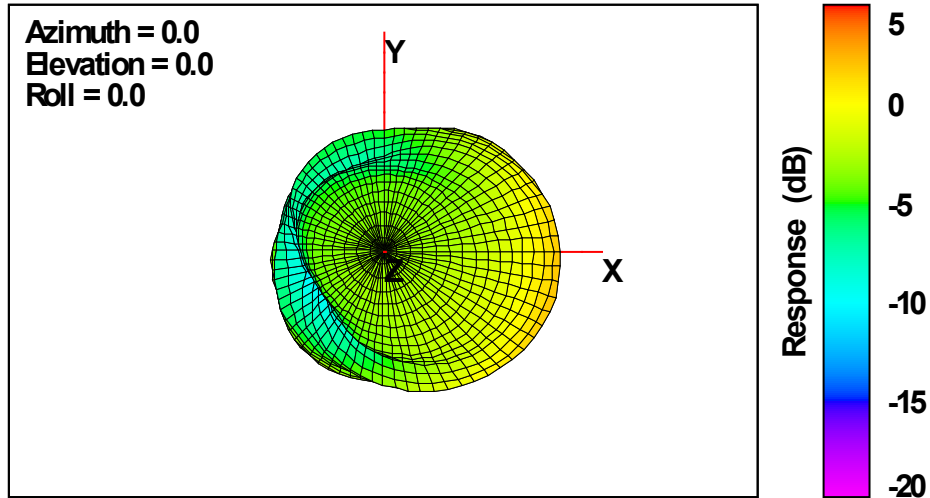
4. Antenna Radiation Performance

Frequency (MHz)	2400	2412	2450	2480	2500
Peak Gain (dBi)	2.33	1.54	0.93	-1.00	-1.96
Average Gain (dBi)	-3.04	-3.31	-4.12	-5.10	-5.58
Efficiency (%)	49.63	46.72	38.72	30.93	27.69

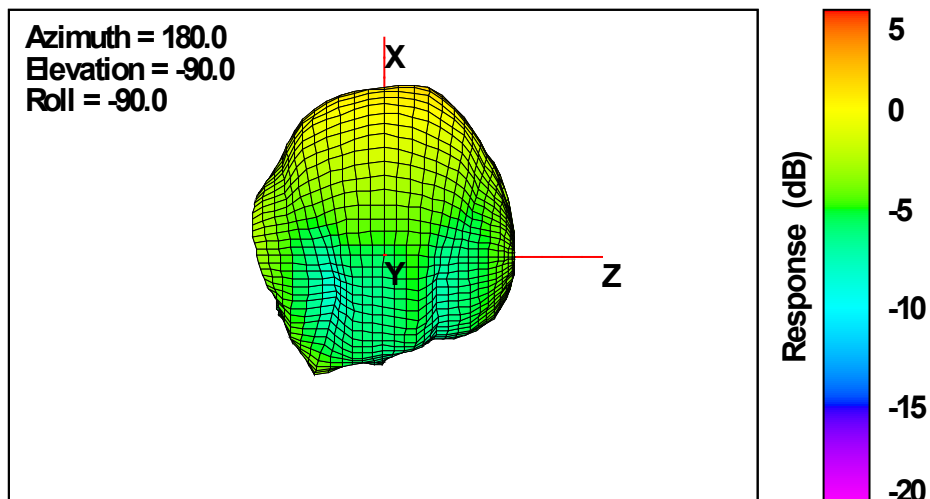
5. 3D Antenna Patterns

2400 MHz

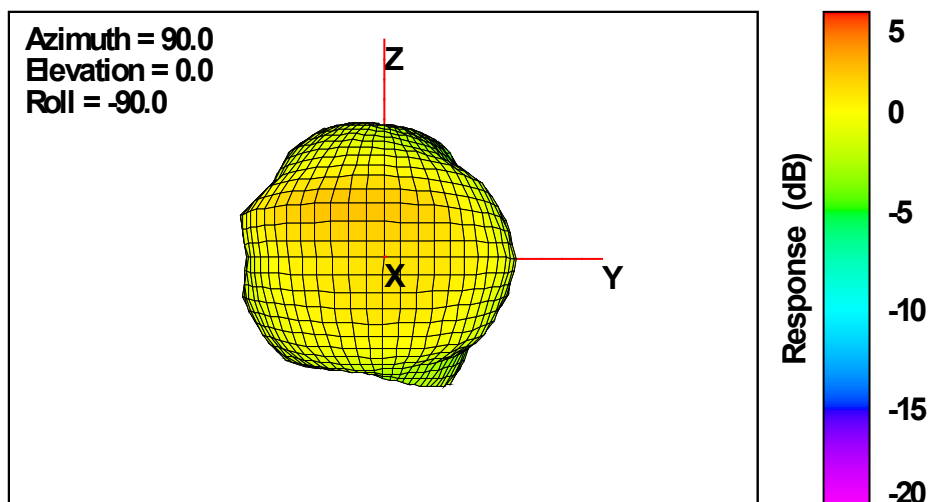
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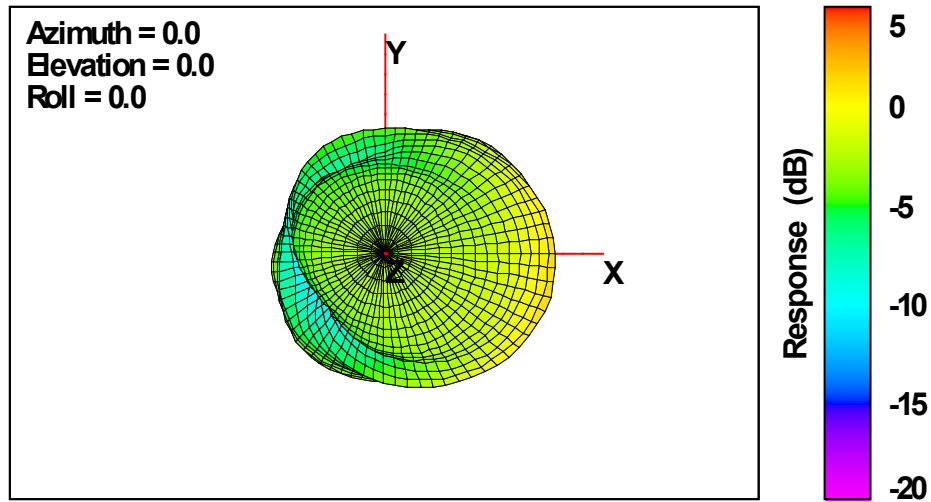


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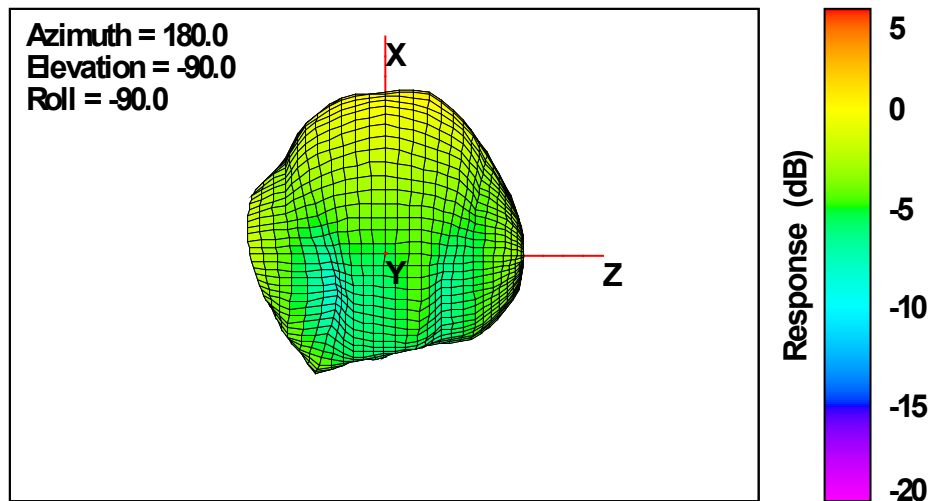


2412MHz

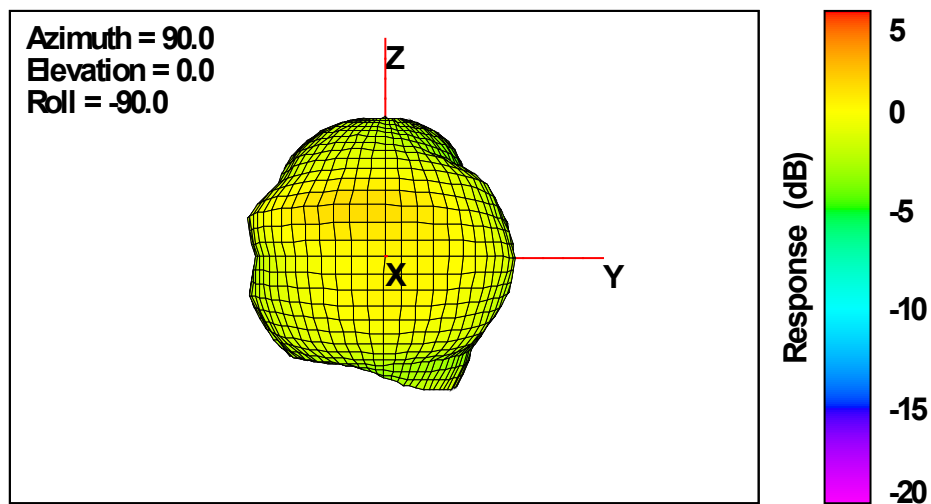
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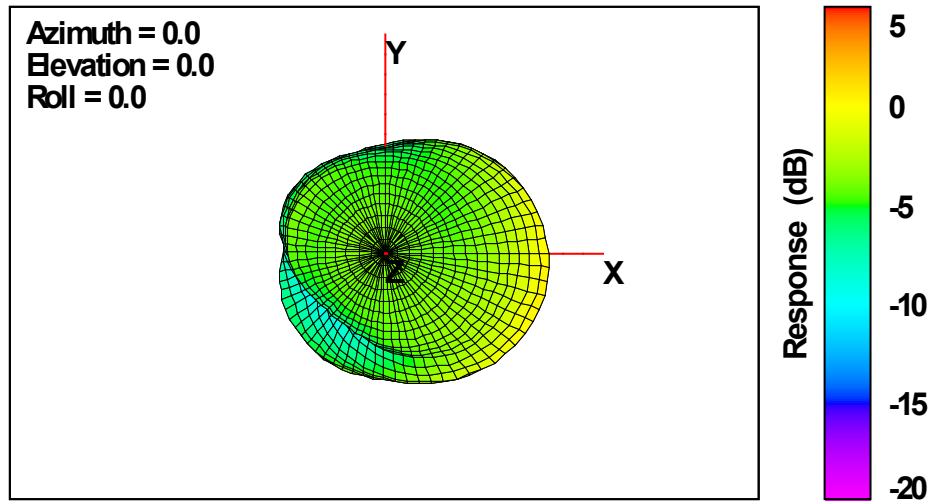


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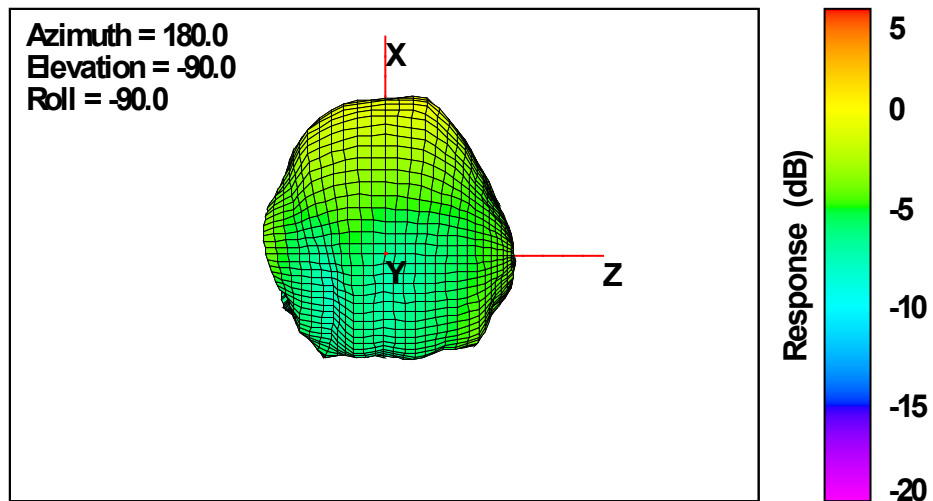


2450MHz

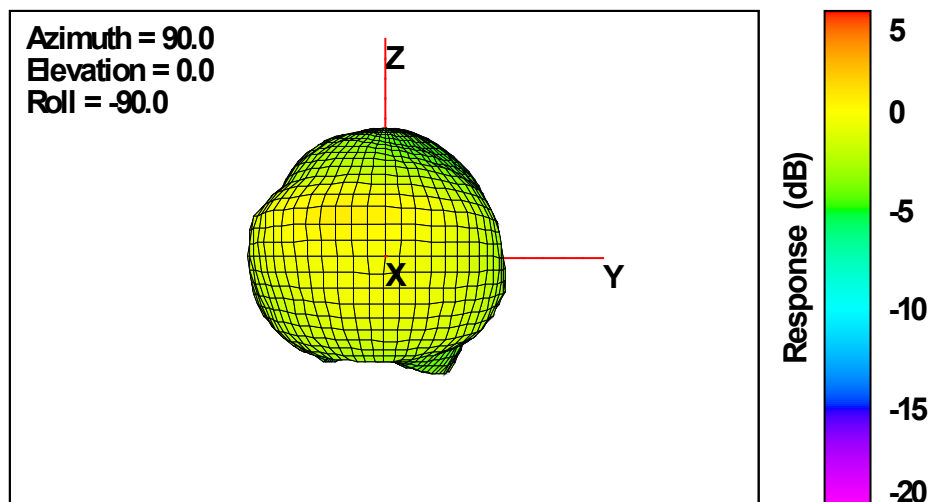
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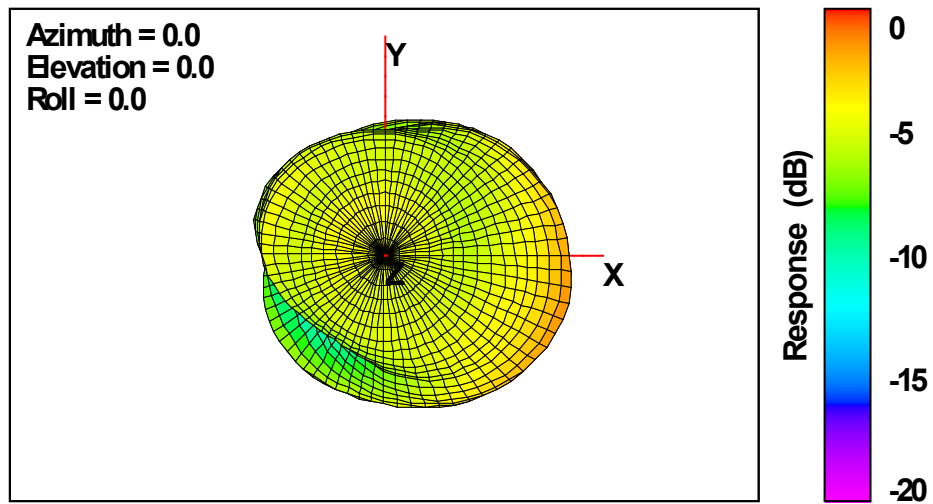


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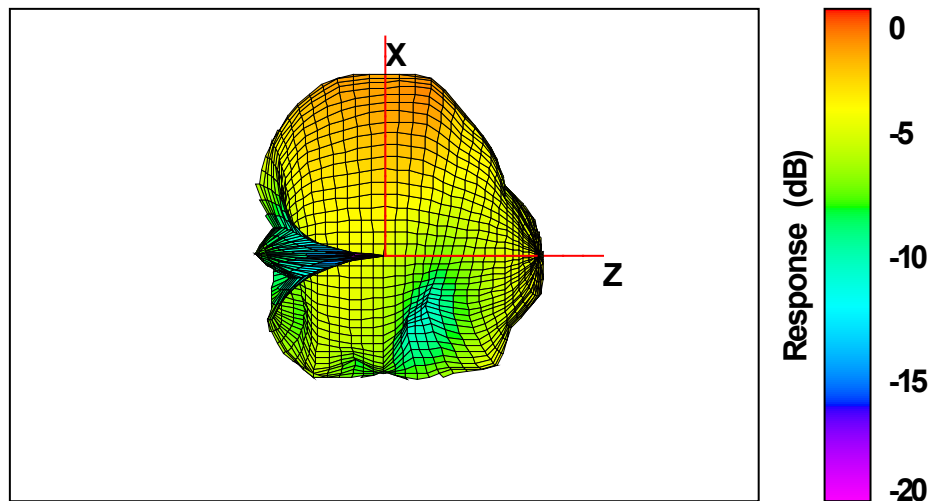


2480MHz

Total

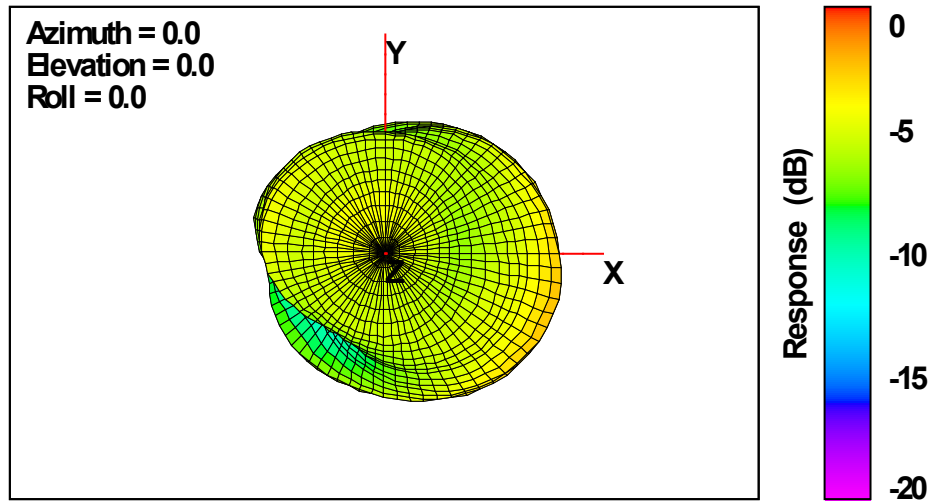


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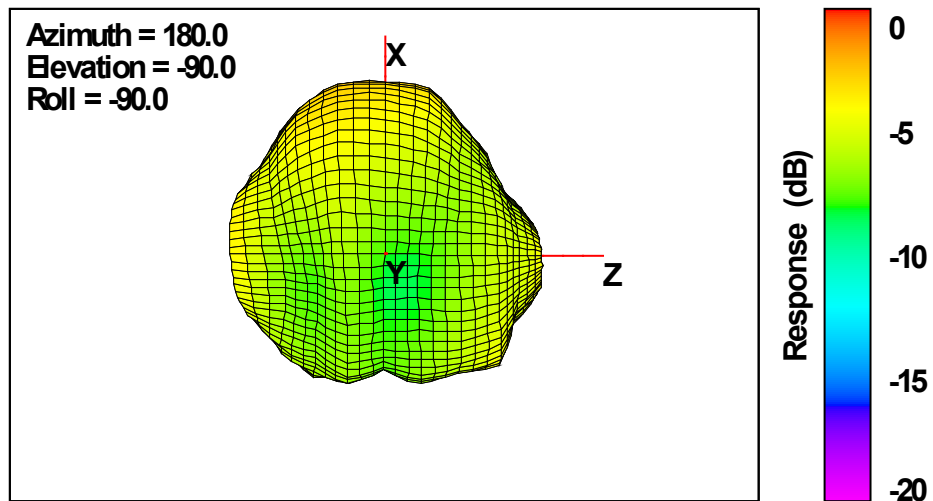


2500MHz

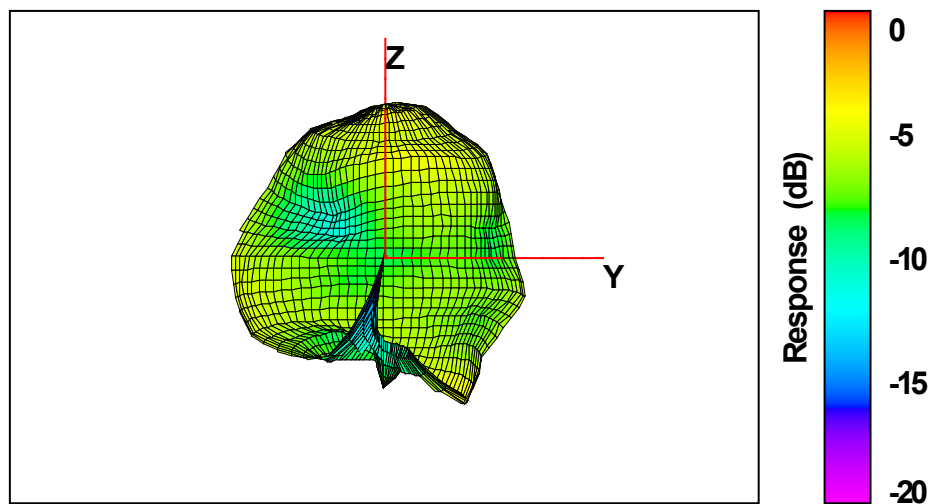
Total



Total



Total



APPENDIX. DUT photographs



DUT(Front)



DUT (Rear)