

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.

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specifically mentioned, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

RELEASE CONTROL RECORD

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

TABLE OF CONTENTS

GENERAL INFORMATION	3
1. Test Equipment List.....	4
2. Measurement Uncertainty	4
3. Testing Setup Photo	5
4. Antenna Radiation Performance	5
5. 3D Antenna Patterns.....	6
APPENDIX. DUT photographs.....	11



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

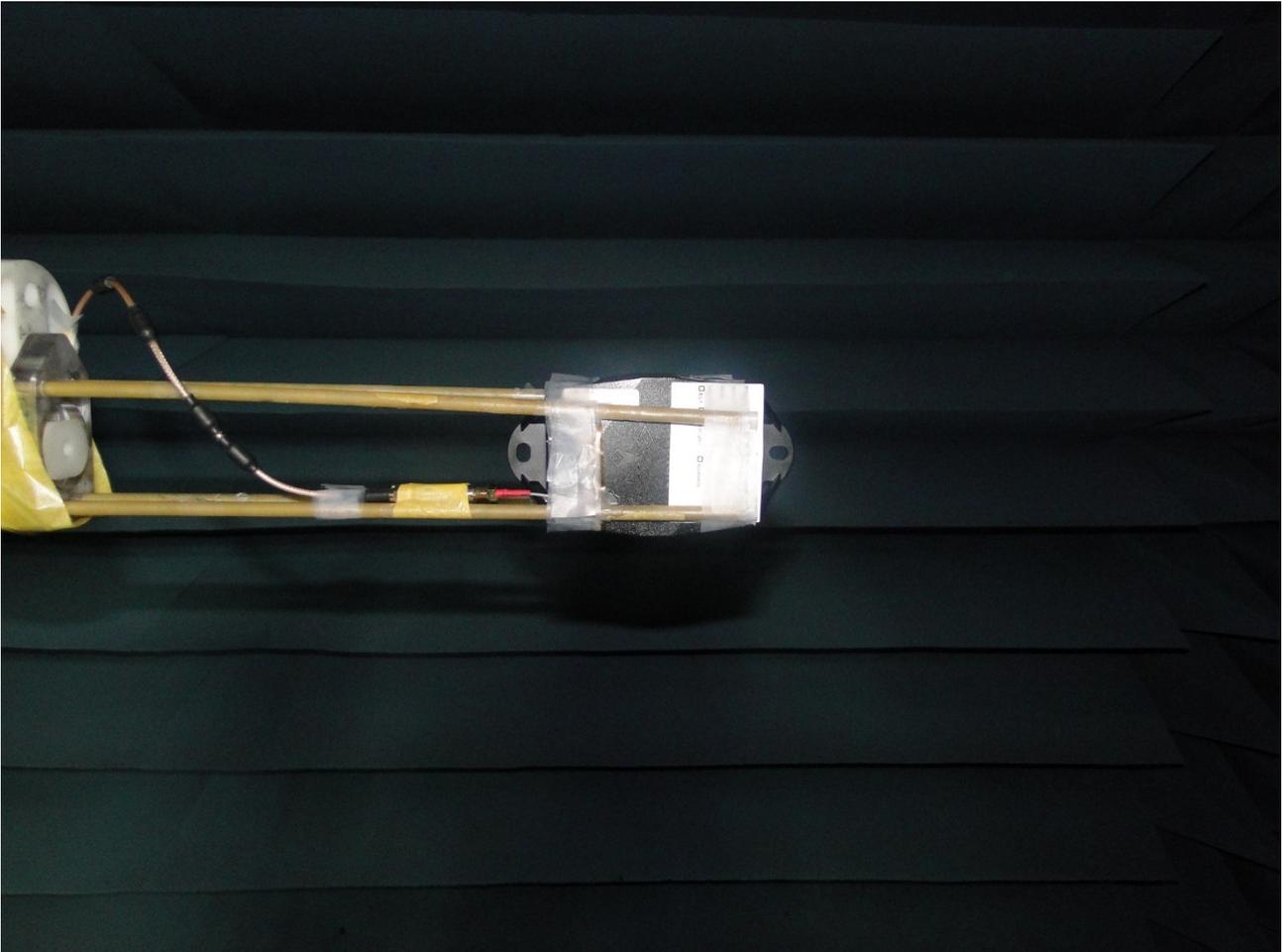
TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
ETS Anechoic Chamber	AMS-8500	N/A	N/A
Multi-Axis Positioning System	ETS 2090-OPTI	N/A	N/A
Horn Antenna	ETS 3164-06	N/A	N/A
Switch Control	Agilent 3499A	N/A	N/A
Network Analyzer	E5071C	MY46104190	2022/5/30

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



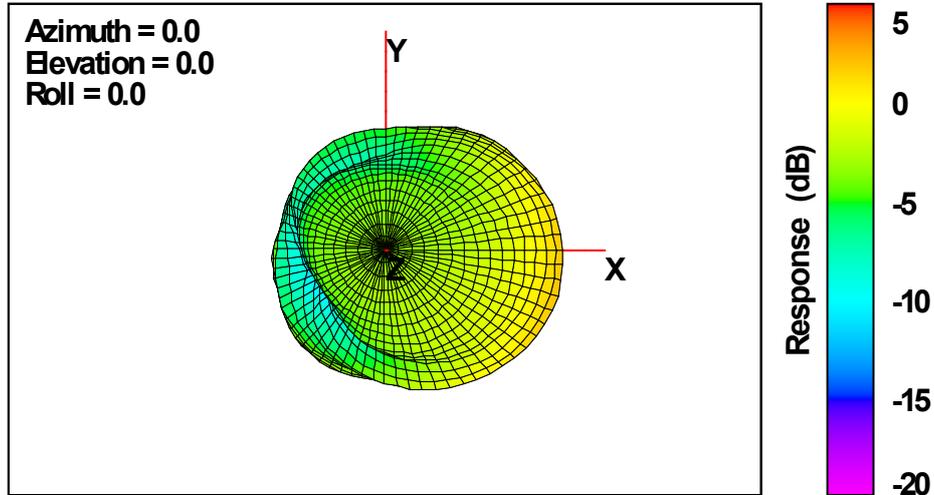
4. Antenna Radiation Performance

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

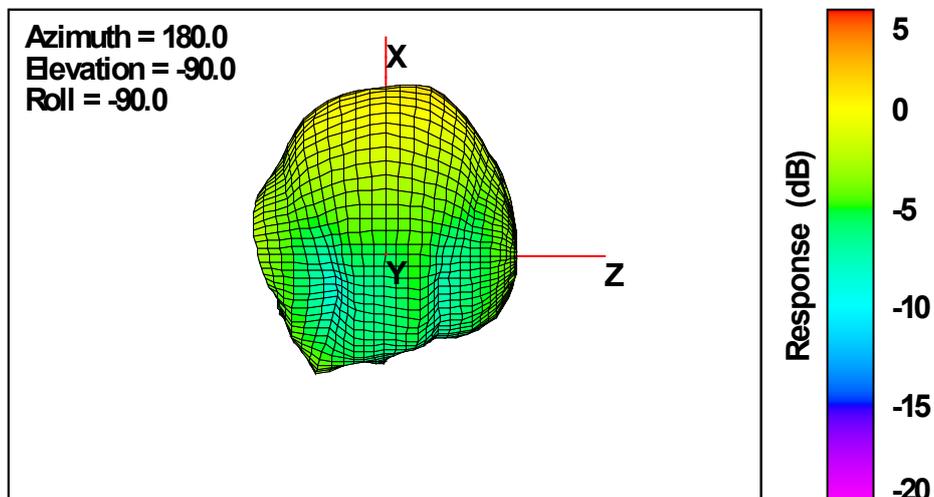
5. 3D Antenna Patterns

2400 MHz

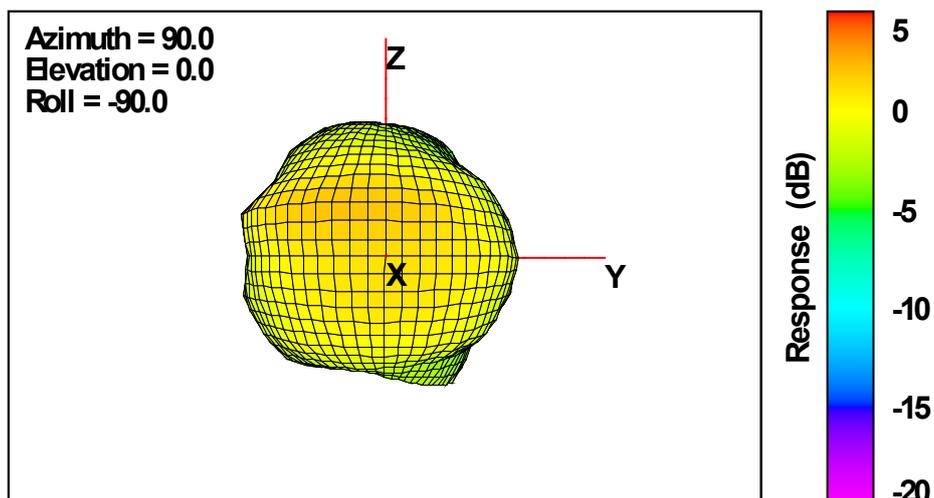
Total



Total

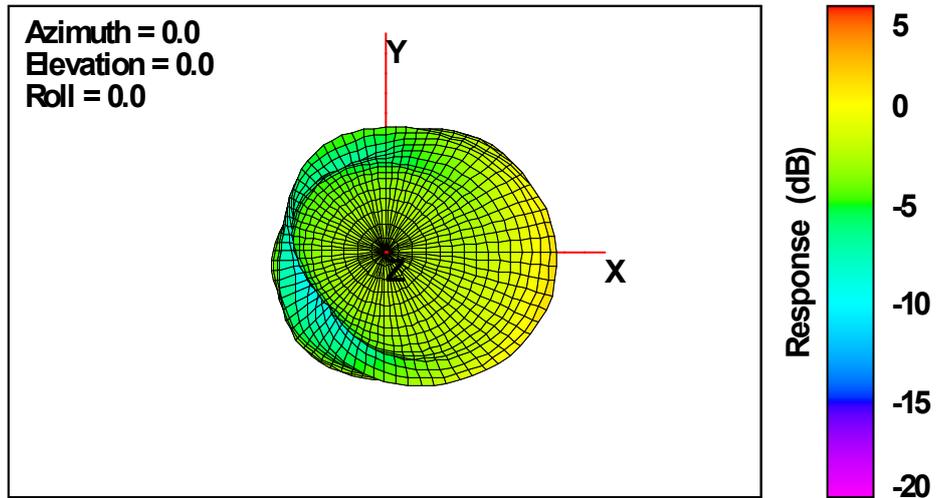


Total

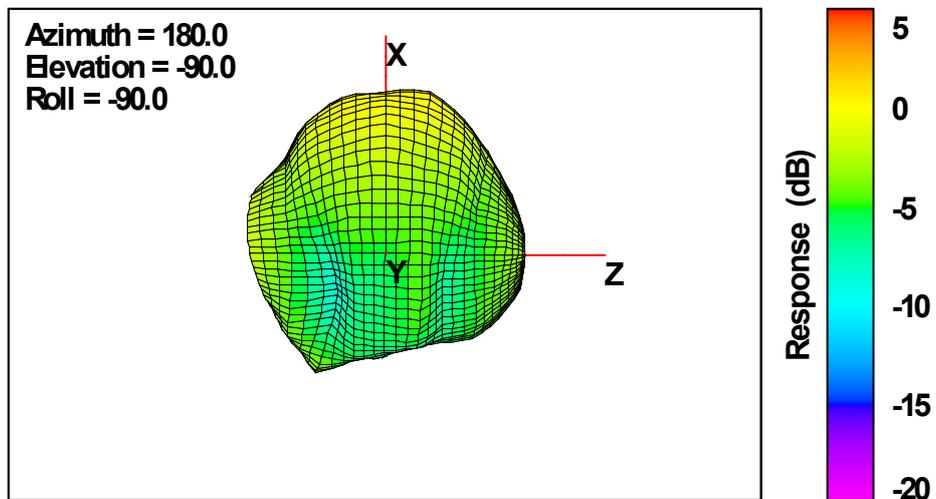


2412MHz

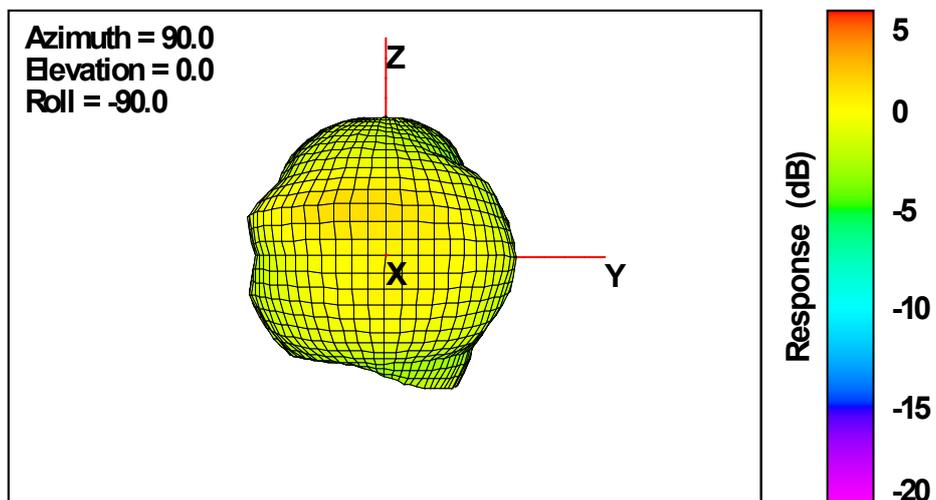
Total



Total

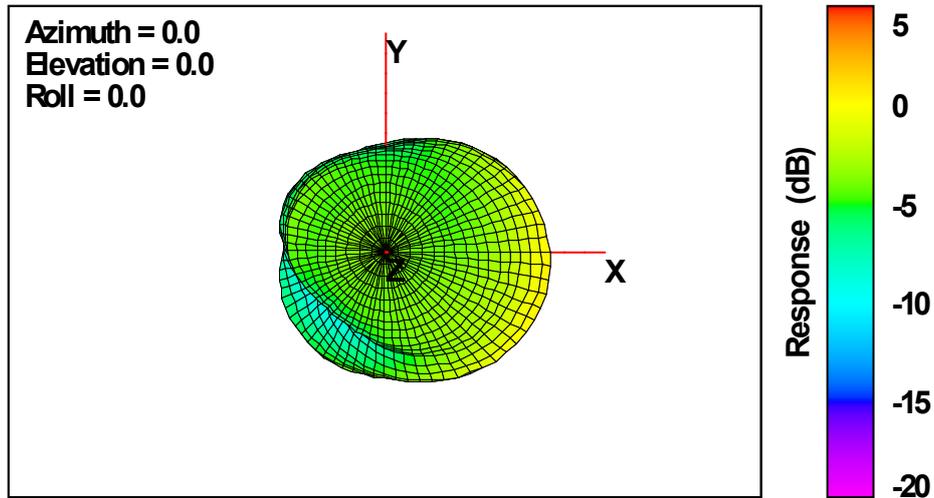


Total

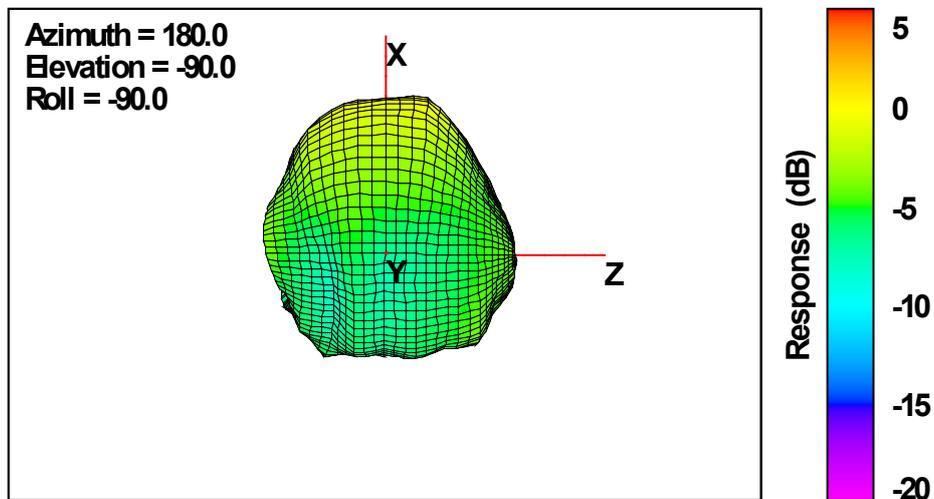


2450MHz

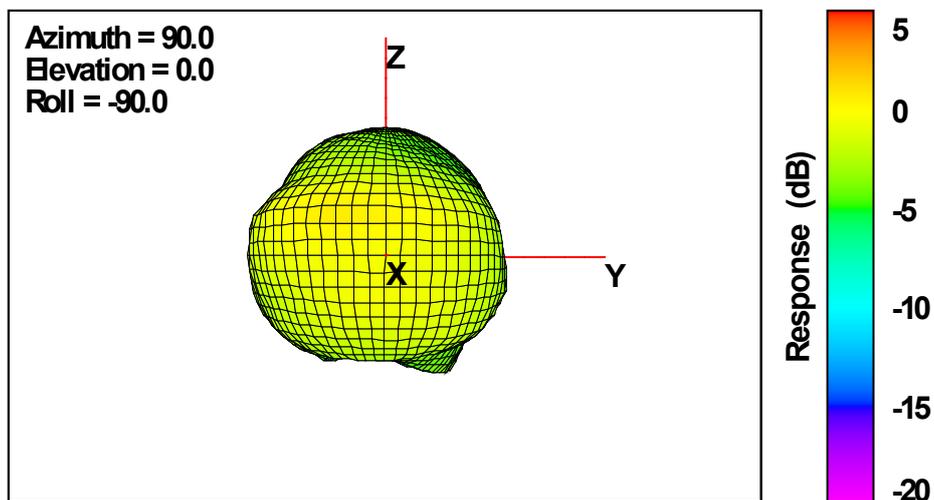
Total



Total

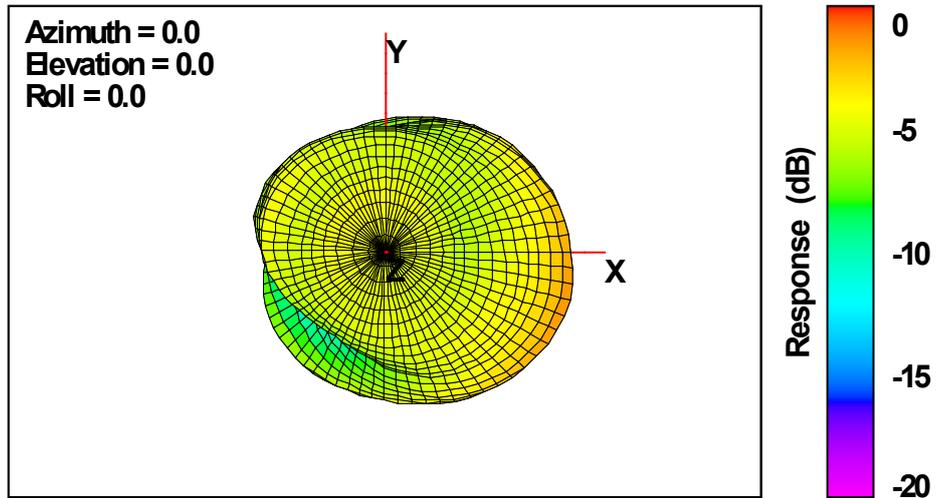


Total

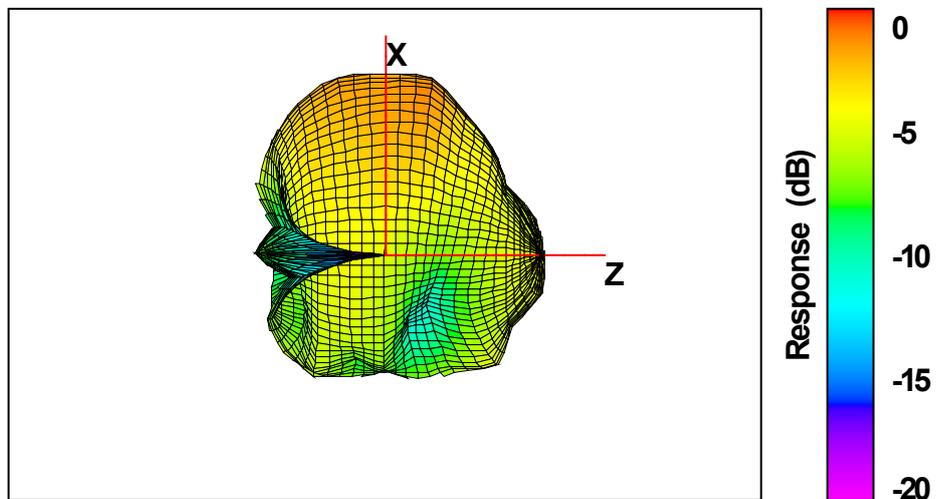


2480MHz

Total

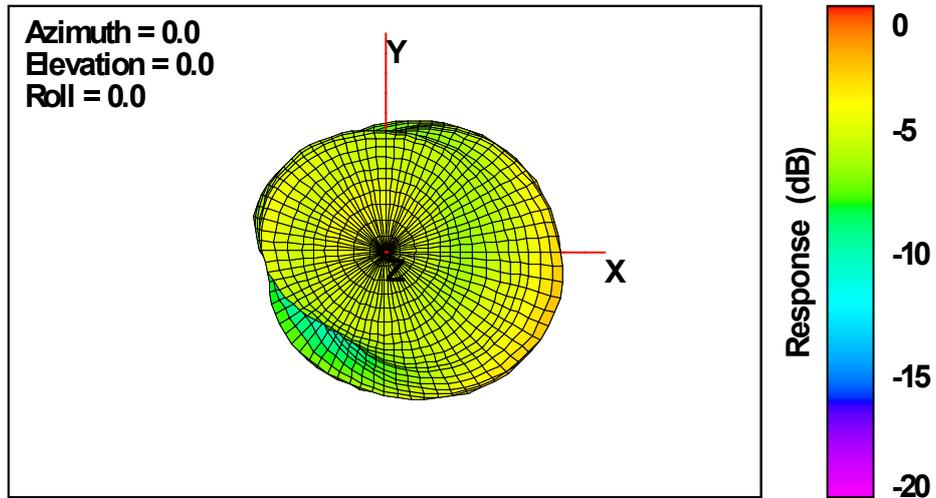


Total

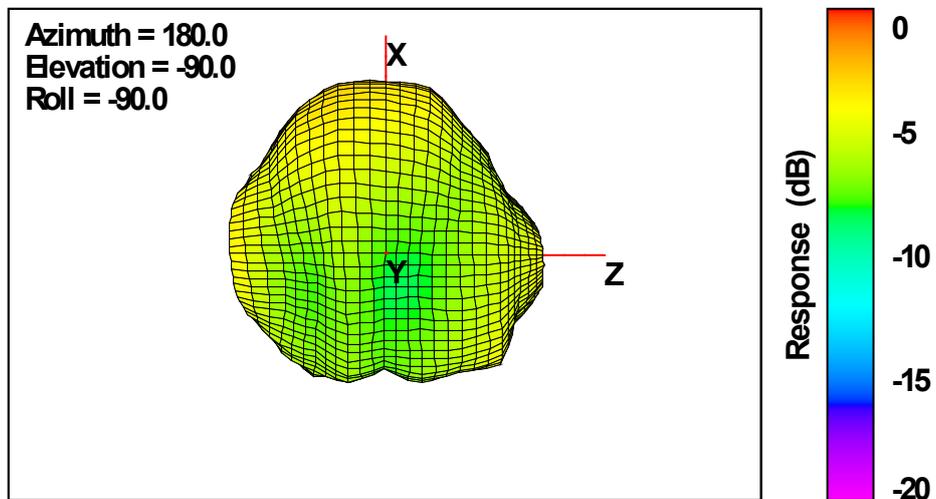


2500MHz

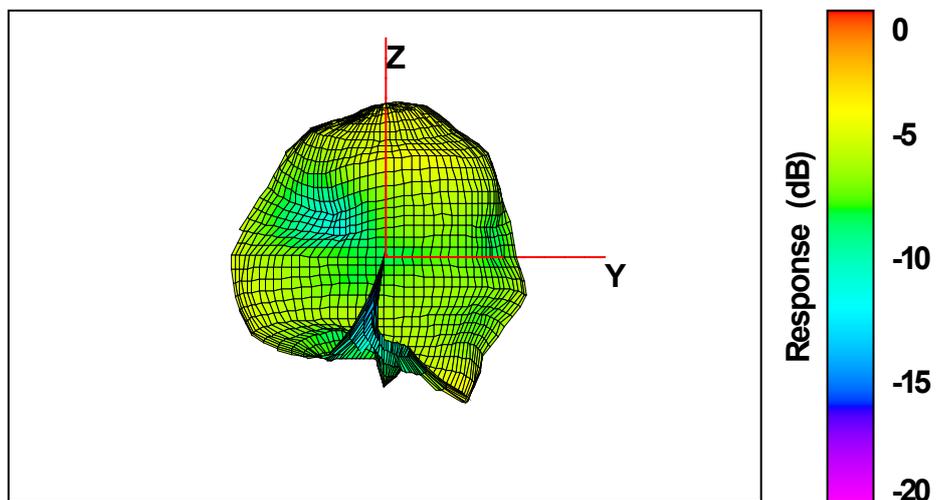
Total



Total



Total



APPENDIX. DUT photographs



DUT(Front)



DUT (Rear)