




<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>60440956-003 Appendix1</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	23870481 030	Seite 1 von 13 <i>Page 1 of 13</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	2311184	<b>Auftragsdatum:</b> <i>Order date:</i>	2020.12.09		
<b>Auftraggeber:</b> <i>Client:</i>	Wittra Sweden AB				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Wireless Asset Tag				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	Mesh Router 1.0 US / FCC ID:2AYHX00349				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Accredited testing according to FCC Part 15C				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC 47 CFR Part 15.247 with parts 15.207 & 15.209 ANSI C63.10: 2013				
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2020.12.09				
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	See section 2.3				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2020.12.18 - 2021.06.24				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Lund, Sweden				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland Sweden				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>überprüft von:</b> <i>reviewed by:</i>	 Signed by: Niall Forrester		<b>genehmigt von:</b> <i>authorized by:</i>	 Signed by: Per Isacson	
<b>Datum:</b> 2021.6.24 <i>Date:</i>			<b>Datum:</b> 2021.6.24 <i>Date:</i>		
<b>Stellung / Position:</b>	<b>Senior Technical Expert</b>		<b>Stellung / Position:</b>	<b>Lab Manager</b>	
<b>Sonstiges / Other:</b>	Note: This reports contains information for "Sub-GHz" IEEE 802.15.4g proprietary radio measurements only. Testing was performed on "Sensor tag 1.0" devices (FCC ID 2AYHX00348) which are functionally and electronically identical to the Mesh Router (FCC ID 2AYHX00349) for the purposes of the testing in this report				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend 3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.</i></p>					

REVISION	DATE	REMARKS	AUTHOR
001	2021.04.16	First Release	Niall Forrester
002	2021.05.12	Corrected tables 4.1.2, 4.7.1 images in 4.2.2, 4.7.2 & added plots to section 4.11.2	Niall Forrester
003	2021.06.24	Corrected gain figures, 20dB BW and typos	Niall Forrester
Note: Latest revision report will replace all previous reports			
This report based on FCC Part 15.247 Template version 1.2			

## Revision History

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## 1. GENERAL INFORMATION

### 1.1 Test Site

Test Facility:	TÜV Rheinland Sweden AB
Address:	Mobilvägen 10
	223 62 Lund
	Sweden
Swedac Registration Number:	10325
FCC Test Firm Registration Number:	517458
ISED Test Site Registration Number:	24753

### 1.2 Client Information

Company Name:	Wittra Sweden AB
Address:	Rosenlundsgatan 40 OTR
	118 53 Stockholm
	Sweden
Contact Person:	Warwick Taws
Contact e-Mail / Telephone	wat@wittra.se

## 2. Photographs

### 2.1 Photographs of the EUT

Bottom End View



Front View



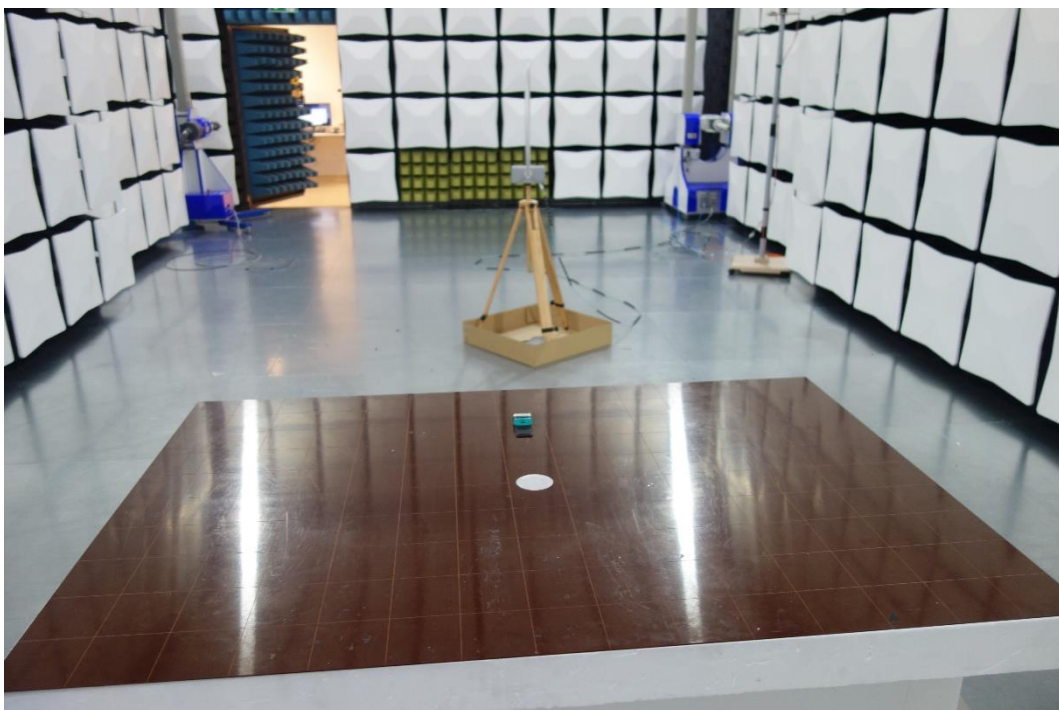
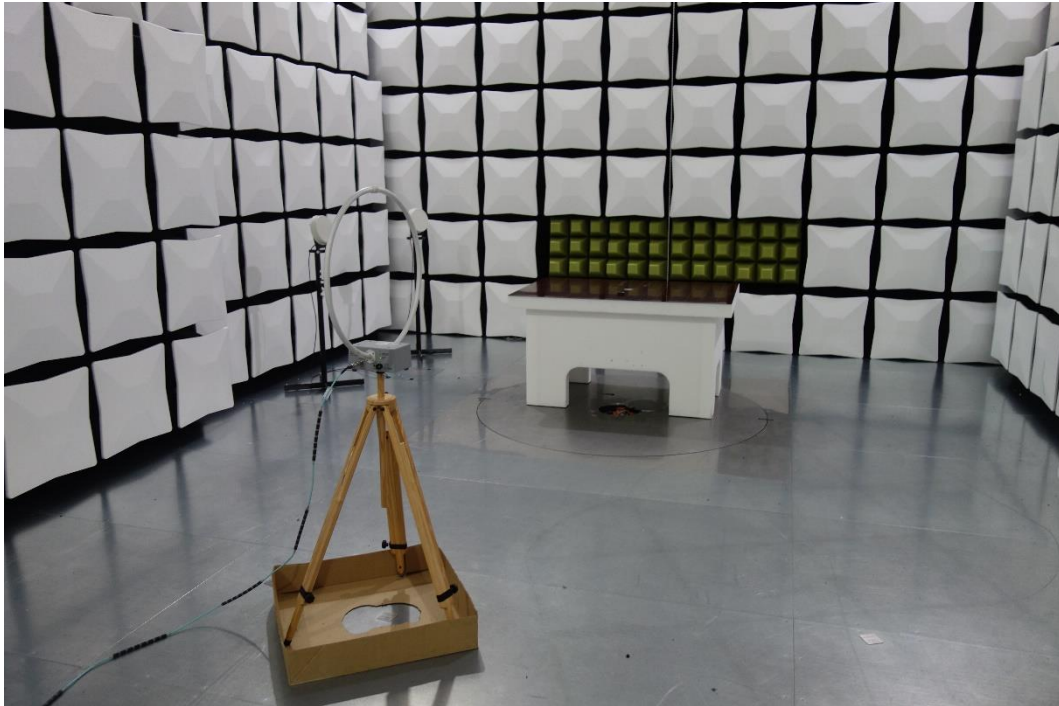
Top End View



Rear View

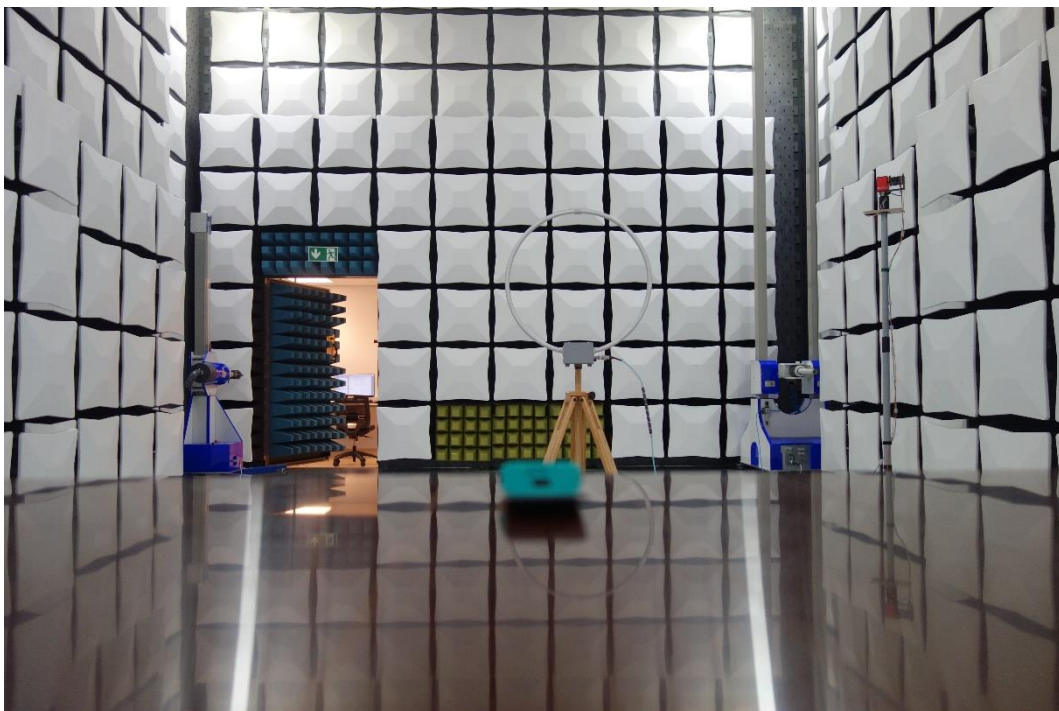
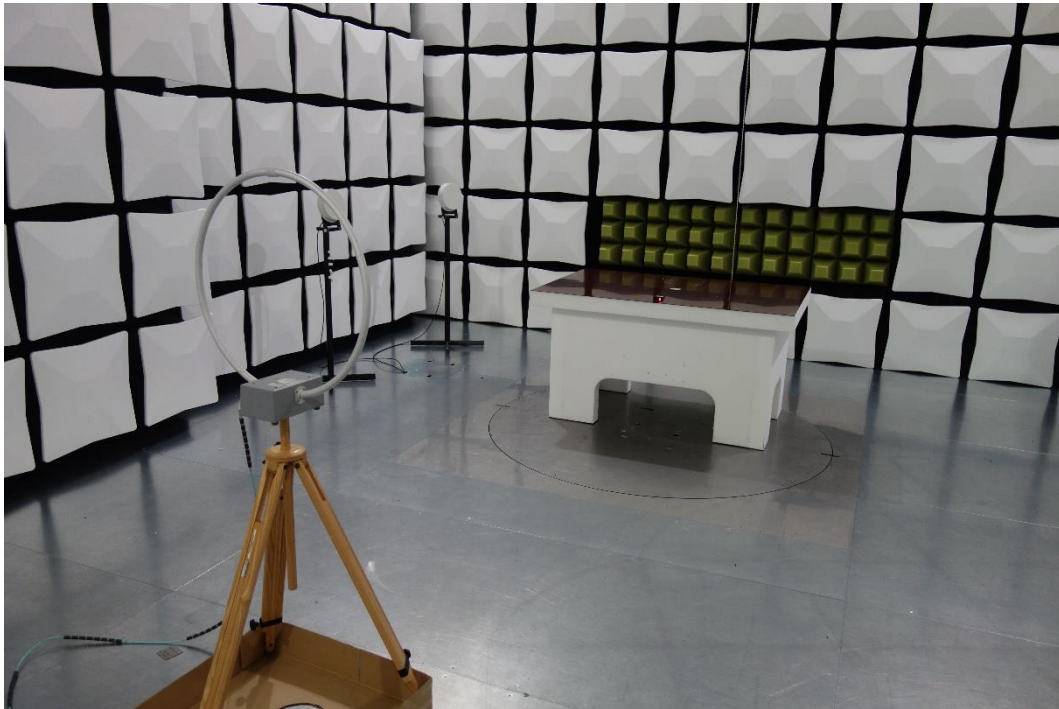


## 2.2 Test Setup Photographs: Radiated Emission 9 kHz – 30 MHz Loop Antenna Parallel to Axis

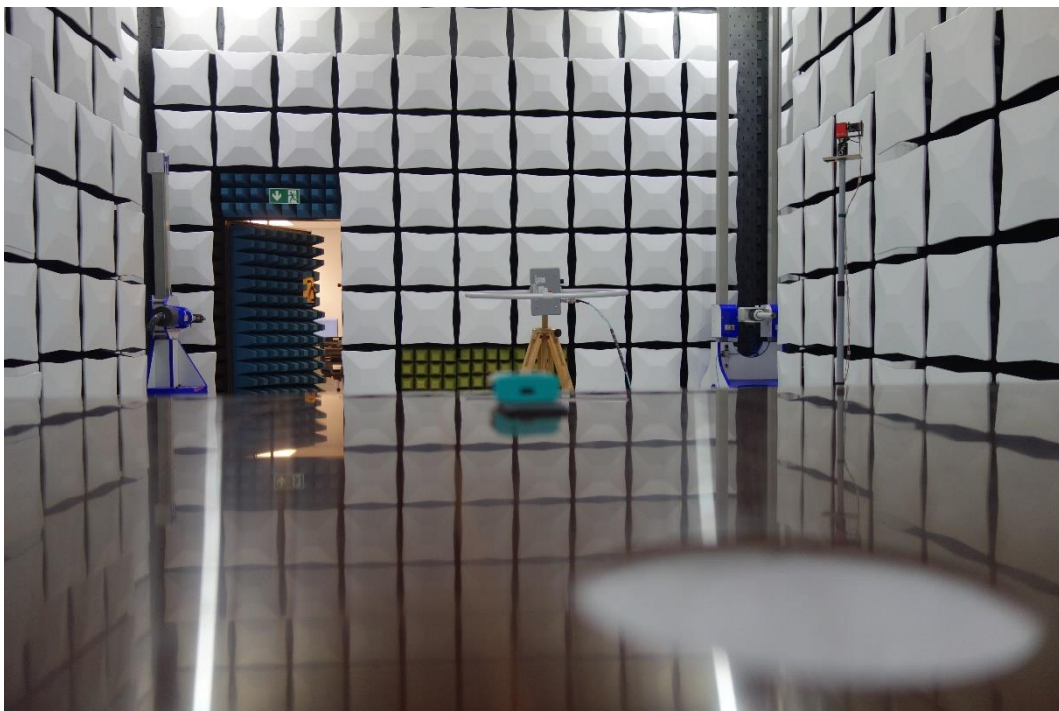
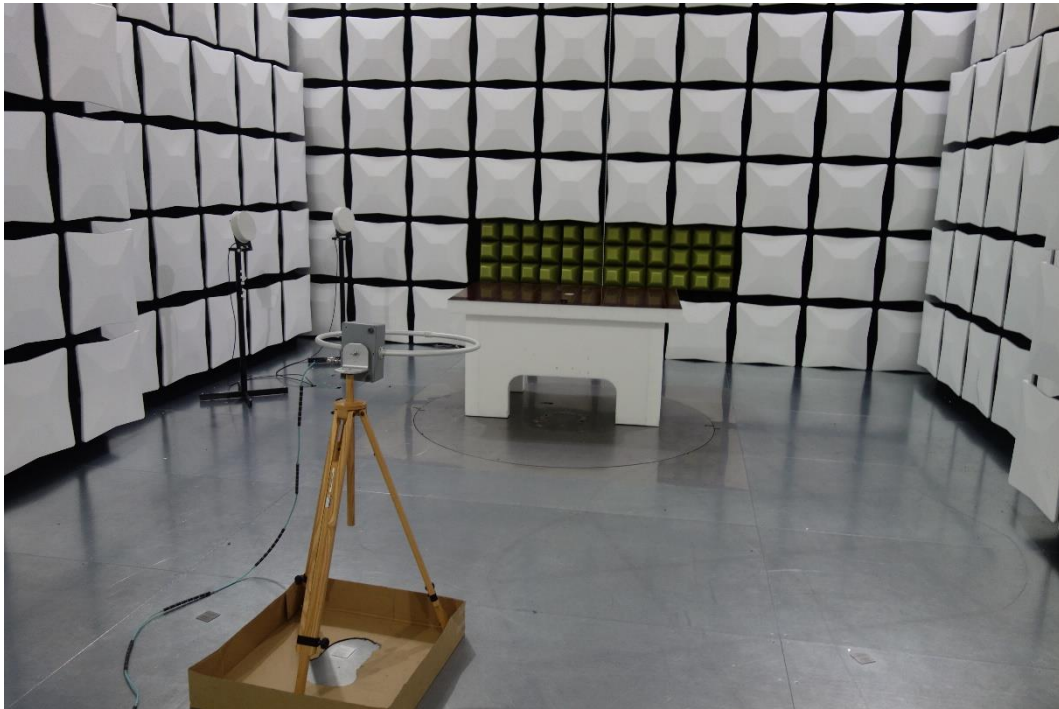




Loop Antenna Perpendicular to Axis

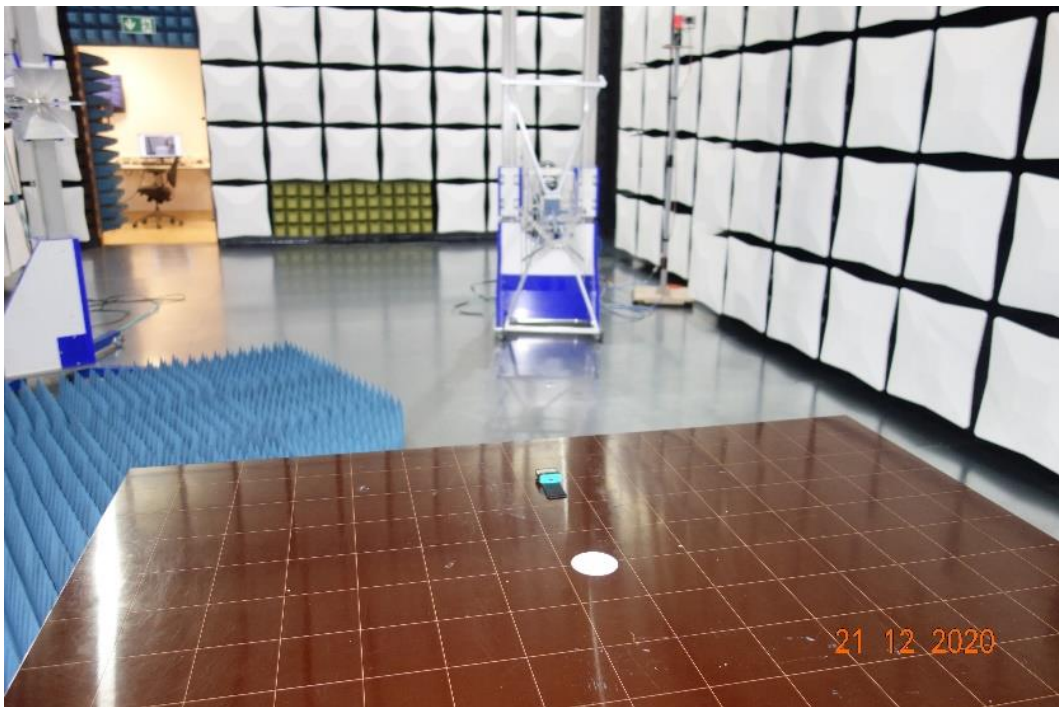


Loop Antenna Parallel to Floor





### 2.3 Test Setup Photographs: Radiated Emission 30 MHz – 1 GHz



## 2.4 Test Setup Photographs: Radiated Emissions 1 GHz – 18 GHz

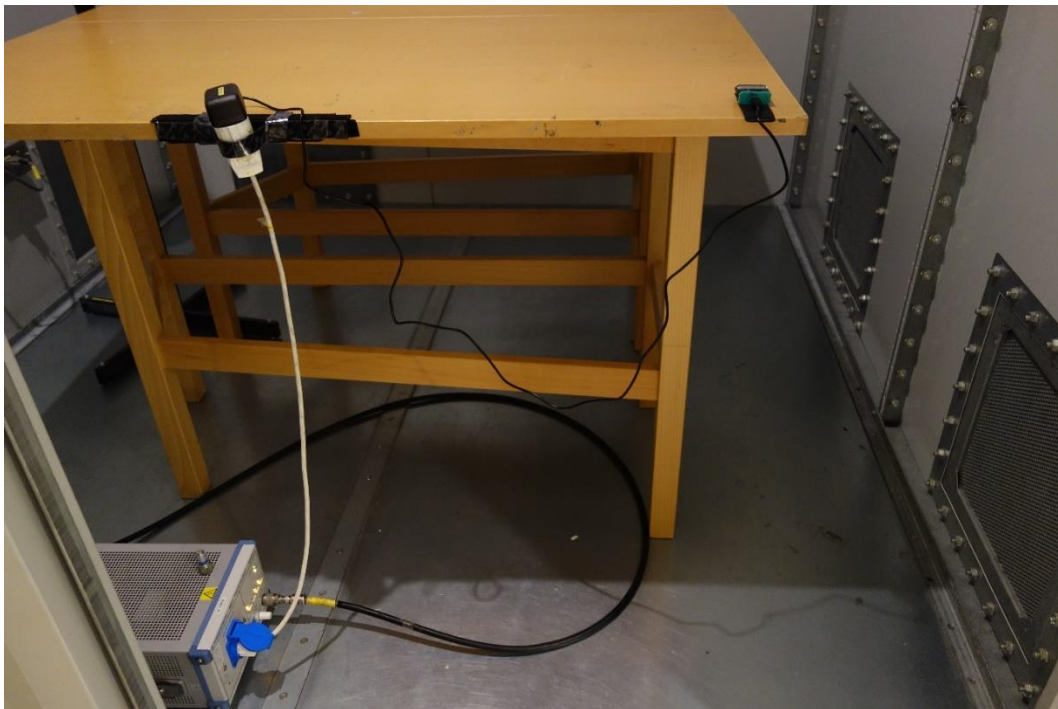




## 2.5 Test Setup Photographs: Radiated Emissions 18 GHz – 40 GHz



## 2.6 Test Setup Photographs: Conducted Emissions





## 2.7 Test Setup Photographs: Conducted RF

