



TEST REPORT

Test Report No. : UL-RPT-RP-12875205-316-FCC

Applicant : Blulog Sp. z o.o.

Model No. : TDL2

FCC ID : 2AURR-TDL2SERIES

Technology : 902 – 928 MHz

Test Standard(s) : FCC Parts 15.209(a) & 15.249

For details of applied tests refer to test result summary

1. This test report shall not be reproduced in full or partial, without the written approval of UL International Germany GmbH.
2. The results in this report apply only to the sample tested.
3. The test results in this report are traceable to the national or international Boosts.

4. Test Report Version 1.1 supersede Version 1.0 with immediate effect

Test Report No. UL-RPT-RP-12875205-316-FCC Version 1.1, Issue Date 29 OCTOBER 2020 replaces

Test Report No. UL-RPT-RP-12875205-316-FCC Version 1.0, Issue Date 30 SEPTEMBER 2020, which is no longer valid.

5. Result of the tested sample: **PASS**

Prepared by: Sercan Usta
Title: Laboratory Engineer
Date: 29 October 2020

Approved by: Ajit Phadtare
Title: Lead Test Engineer
Date: 29 October 2020



Deutsche
Akkreditierungsstelle
D-PL-19381-02-00

This laboratory is accredited by DAkkS.
The tests reported herein have been performed in
accordance with its' terms of accreditation.

UL INTERNATIONAL GERMANY GMBH

Hedelfinger Str. 61
70327 Stuttgart, Germany
STU.CTECHLab@ul.com

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1. Customer Information

1.1. Applicant Information

Company Name:	Blulog Sp. z o.o.
Company Address:	Konarzewska 4, 60-101 Poznań, Poland
Contact Person:	Jeremy Laurens
Contact E-Mail:	Jeremy.laurens@blulog.eu
Contact Phone No.:	+48 606 641 176

1.2. Manufacturer Information

Company Name:	Blulog Sp. z o.o.
Company Address:	Konarzewska 4, 60-101 Poznań, Poland
Contact Person:	Jeremy Laurens
Contact E-Mail:	Jeremy.laurens@blulog.eu
Contact Phone No.:	+48 606 641 176

2. Summary of Testing

2.1. General Information

Applied Standards

Specification Reference:	47CFR15.249
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.249
Specification Reference:	47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.209

Location

Location of Testing:	UL International Germany GmbH Hedelfinger Str. 61 70327 Stuttgart Germany
Test Firm Registration:	399704

Date information

Order Date:	21 May 2019
EUT arrived:	28 September 2020
Test Dates:	28 September 2020 to 30 September 2020
EUT returned:	-/-

2.2. Summary of Test Results

Clause	Measurement	Complied	Did not comply	Not performed	Not applicable
Part 15.207	Transmitter AC Conducted Emissions ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Part 2.1049	Transmitter 20 dB Bandwidth ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part 15.35(c)	Transmitter Duty Cycle ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part 15.249(a)(c)	Transmitter Fundamental Field Strength ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part 15.249(a)(d)(e)/ 15.209(a)	Transmitter Radiated Emissions ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part 15.249(d) & 15.209(a)	Transmitter Band Edge Radiated Emissions ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note:

1. In response to an FCC inquiry, the tests were performed without EUT's plastic enclosure/housing and larger capacity battery. For further details refer section 4.2 of this report.
2. Not Applicable as EUT operates using a non-rechargeable internal battery.

2.3. Methods and Procedures

Reference:	ANSI C63.10-2013
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 414788 D01 Radiated Test Site v01r01, July 12, 2018
Title:	TEST SITES FOR RADIATED EMISSION MEASUREMENTS

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Blulog
Model Name or Number:	TDL2
Test Sample Serial Number:	2001330Y (Radiated sample)
Hardware Version Number:	8
Firmware Version Number:	28
FCC ID:	2AURR-TDL2SERIES

3.2. Description of EUT

The equipment under test was a Real-Time, RF data logger supporting wireless operations in 902-928 MHz band.

The TDL2 data logger measures temperature or temperature and humidity; transmits data wirelessly up to 700 meters to a gateway.

The gateway, connected to the Internet using local connection (Wi-Fi / Ethernet) or 2G/3G, enables real-time and simultaneous monitoring.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Tested Technology:	902-928 MHz	
Power Supply Requirement:	Nominal	3 V DC (Internal battery)
Power Supply Type:	non-rechargeable battery type: CR2 850 mAh	
Type of Unit:	Transceiver	
Transmit Frequency Range:	920.9 MHz	
Transmit Channels (Fixed Frequency) Tested:	Channel ID	Channel Frequency (MHz)
	Single	920.9
Channel Spacing:	Single Channel- Fixed frequency	
Modulation:	Gaussian Frequency Shift Keying (GFSK)	
Data Rate (kbps):	50	
Measured Maximum Fundamental Field Strength:	91.45 dB μ V/m @ 3 m	
Antenna Gain:	11.0 dBi	
Antenna Type:	Integrated PCB Antenna	
Antenna Details:	PCB antenna designed especially for this device	

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

A. Support Equipment (In-house)

Item	Description	Brand Name	Model Name or Number	Serial Number
1	-/-	-/-	-/-	-/-

B. Support Equipment (Manufacturer supplied)

Item	Description	Brand Name	Model Name or Number	Serial Number
1	-/-	-/-	-/-	-/-

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

Continuous transmitting modulated carrier at maximum power (Fixed Channel Frequency Mode)

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

EUT Configuration & Power Supply:

- The normal EUT has plastic enclosure/housing (that does not have any impregnated metal) and is powered via 3 V DC coin cell battery. For further details refer applicant's declaration "Applicant's Declaration-FCC-FINAL-Statement3.pdf", issue date 16 October 2020.
- In order to achieve continuous transmissions over an extended period of time, larger capacity battery 3 V DC type CR2 was used. In order to accommodate the 3 V DC type CR2 battery, voltage leads were soldered on the PCB by the applicant. Therefore, tests were performed without EUT's plastic enclosure/housing (that does not have any impregnated metal).
- In response to an FCC inquiry, above mentioned EUT configurations & testing approach was accepted.

Test Mode Activation:

- For all radiated measurements the EUT was powered via the non-rechargeable internal battery.
- The EUTs were preconfigured to continuous transmitting mode with modulated carrier at maximum power.

Radiated Measurements:

- The radiated sample was transmitting with 100% duty cycle therefore no duty cycle correction is required for average measurements.
- Before starting final radiated measurements "worst case verification" with the EUT in Standing-position & Laying-position was performed by Lab.
- The EUT in Standing position was found to be the worst case therefore this report includes relevant results.
- The radiated spurious emissions below 30 MHz were performed with the EUT positioned on the turn table and rotating 360 degrees while the loop antenna height was set to 80 cm.
- The fundamental field strength, bandwidth and radiated spurious emissions above 30 MHz were performed with the EUT positioned on the turn table and rotating 360 degrees while the antenna height varies from 1 to 4 m over the measurement frequency range.
- EMC32 V10.1.0 Software was used for the Radiated spurious emission measurement.

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on Boost uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6 *Measurement Uncertainty* for details.

In accordance with DAkkS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

5.2. Test Results

5.2.1. Transmitter 20 dB Bandwidth

Test Summary:

Test Engineer:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

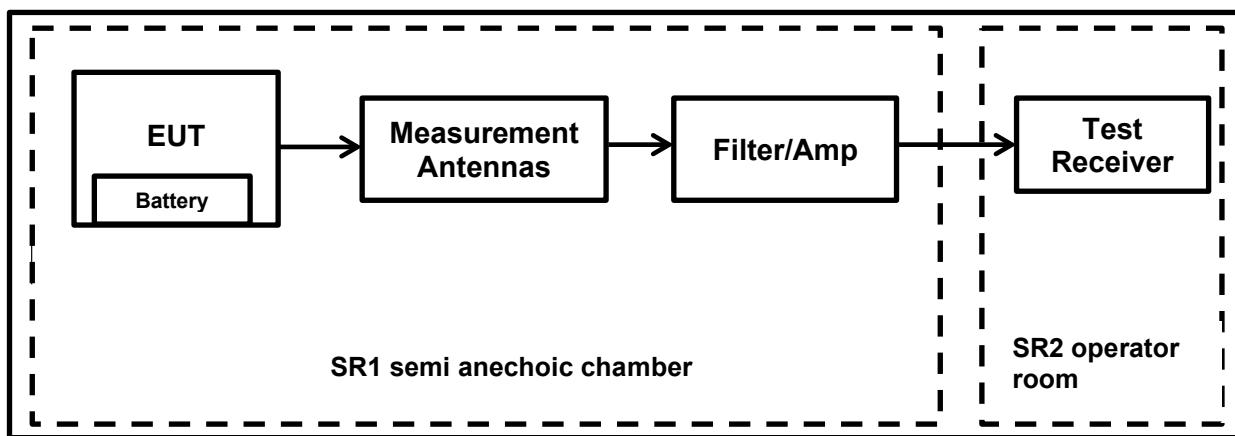
FCC Reference:	Part 2.1049
Test Method Used:	ANSI C63.10 Section 6.9.2

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	45

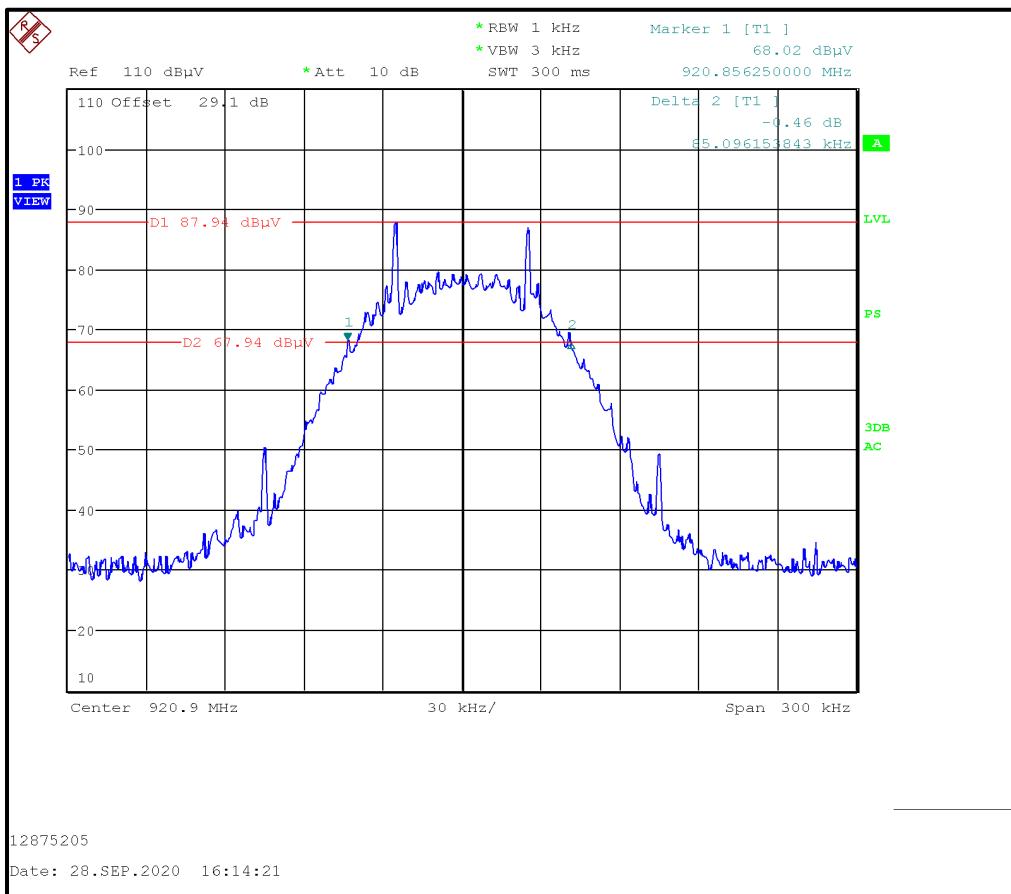
Notes:

1. Measurements were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 meter to 4 meters.
2. The emission shown on 20 dB Bandwidth plot show the single channel at the frequency 920.90 MHz is the fundamental emission. The 20 dB bandwidth was obtained by measuring the emission width after going 20 dB below the carrier peak. The result is given in the table below.
3. The spectrum analyser resolution bandwidth was set to 1 kHz and video bandwidth 3 kHz. A peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The span was set to 300 kHz.
4. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss which was compensated using offset factor. Therefore, total a reference level offset 29.10 dB was added to each of the at the tested frequency plot.

Transmitter 20 dB Bandwidth (continued)**Test Setup:**

Transmitter 20 dB Bandwidth (continued)**Results: Single Channel**

Channel Frequency (MHz)	20 dB Bandwidth (kHz)
920.90	85.096

**Single Channel****Result: Pass**

5.2.2. Transmitter Duty Cycle

Test Summary:

Test Engineers:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

FCC Reference:	Part 15.35(c)
Test Method Used:	ANSI C63.10 Section 7.5

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

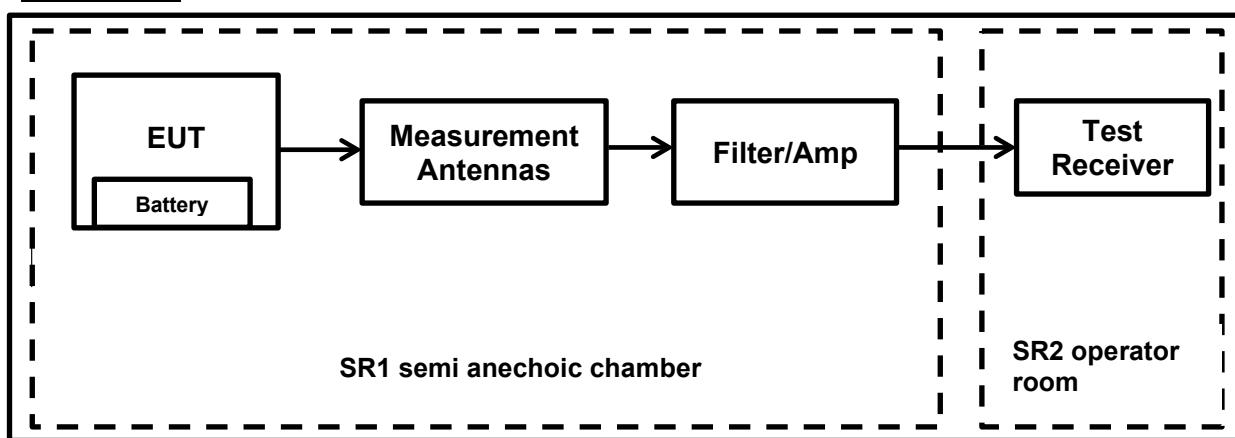
Note(s):

1. In order to assist with the determination of the average level of fundamental and spurious emissions field strength, measurements were made of duty cycle to determine the transmission duration and the silent period time of the transmitter. The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by using the following calculation:

$$\text{Duty Cycle (\%)} = 100 \times [\text{On Time (T}_{\text{ON}}\text{)}] / [\text{Period}(\text{T}_{\text{ON}} + \text{T}_{\text{OFF}}) \text{ or } 100 \text{ ms whichever is the lesser}]$$

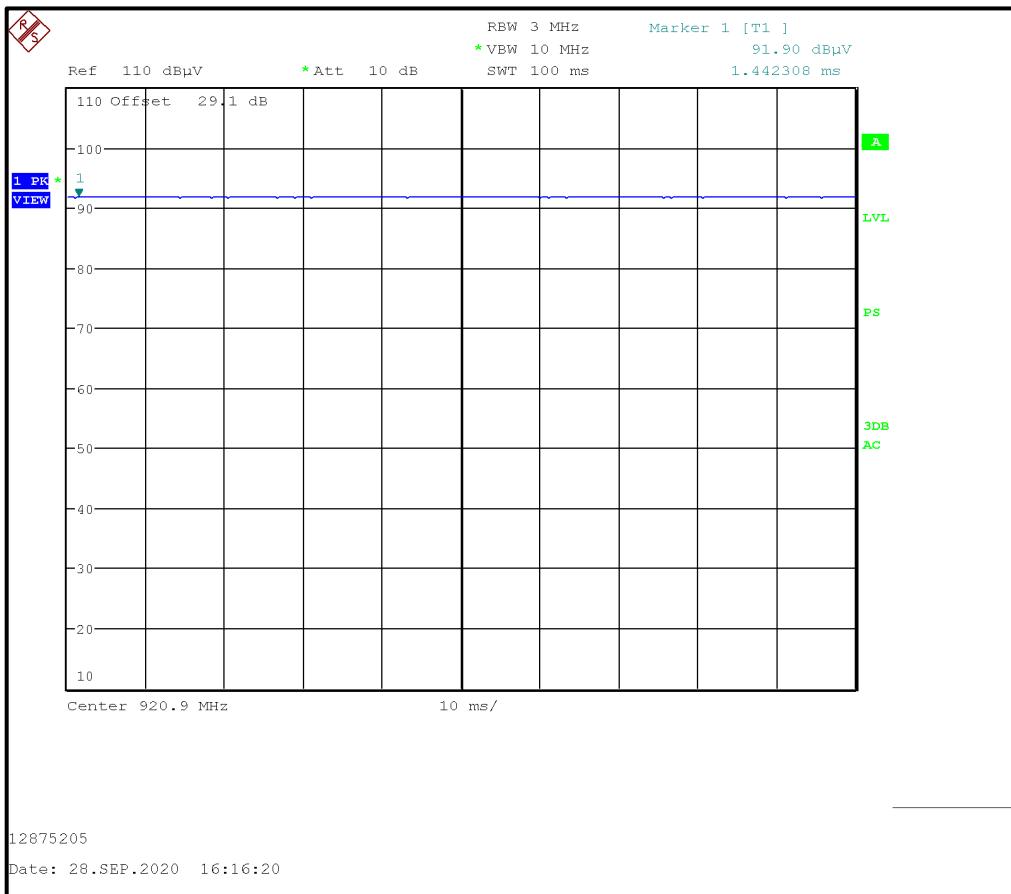
$$\text{Duty Cycle Correction Factor} = 10 \log 1 / [\text{On Time (T}_{\text{ON}}\text{)}] / [\text{Period}(\text{T}_{\text{ON}} + \text{T}_{\text{OFF}}) \text{ or } 100 \text{ ms whichever is the lesser}]$$

2. Measurements were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 meter to 4 meters.
3. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss. Therefore, total a reference level offset 29.10 dB was added to each of the at the tested frequency plot.
4. The measured values of duty cycle & duty cycle correction factors are based on the maximum transmission time in any 100 msec period.

Transmitter Duty Cycle (continued)**Test Setup:**

Transmitter Duty Cycle (continued)**Results: Single Channel**

Pulse Duration (ms)	Period (ms)	Duty Cycle Correction (dB)
100	100	0.0

**Single Channel****Result: Pass**

5.2.3. Transmitter Fundamental Field Strength

Test Summary:

Test Engineer:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

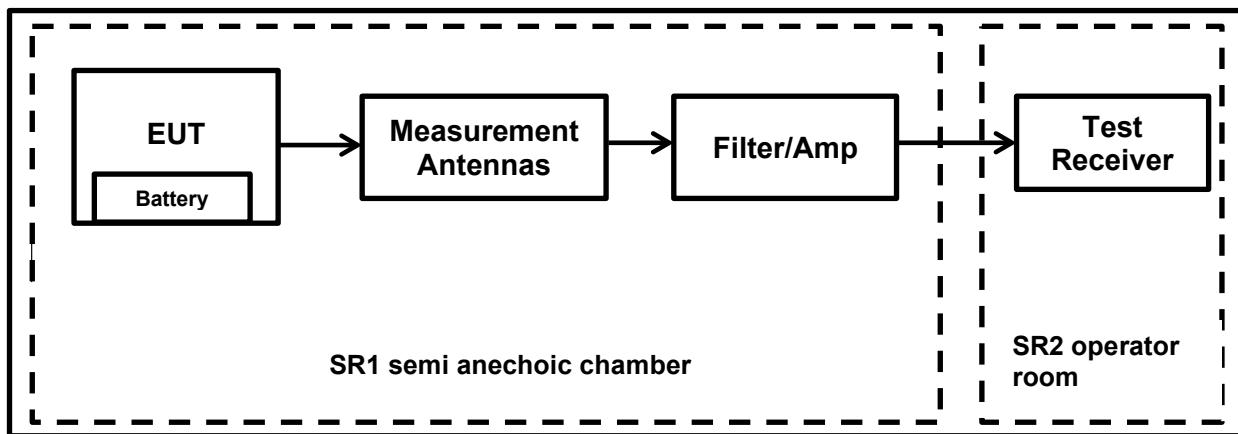
FCC Reference:	Part 15.249(a)(c)
Test Method Used:	ANSI C63.10 Section 6.5

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

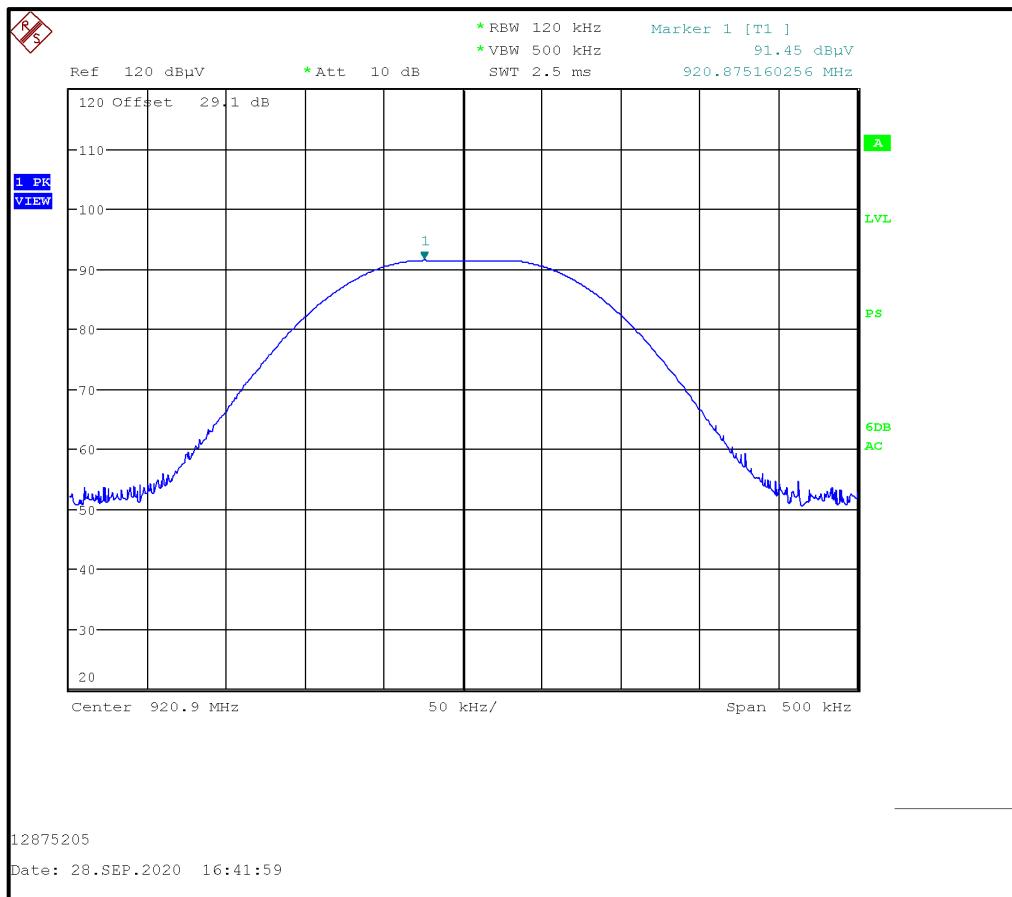
Notes:

1. Measurements were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 meter to 4 meters.
2. The test receiver resolution bandwidth was set to 120 kHz > (20 dB bandwidth) and video bandwidth of 1 MHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The span was set to 1 MHz. A marker was placed at the peak of the signal and the result was recorded in the table below.
3. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss. Therefore, total a reference level offset 29.10 dB was added to each of the at the tested frequency plot.
4. As EUT was transmitting with 100% duty cycle, therefore the measured peak value will be same as Quasi Peak value.

Transmitter Fundamental Field Strength (continued)**Test Setup:**

Transmitter Fundamental Field Strength (continued)**Results: Single Channel**

Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Quasi Peak Limit (dB μ V/m)	Margin (dB)	Result
920.875	Horizontal	91.45	93.98	2.53	Complied

**Single Channel****Result: Pass**

5.2.4. Transmitter Radiated Emissions

Test Summary:

Test Engineer:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

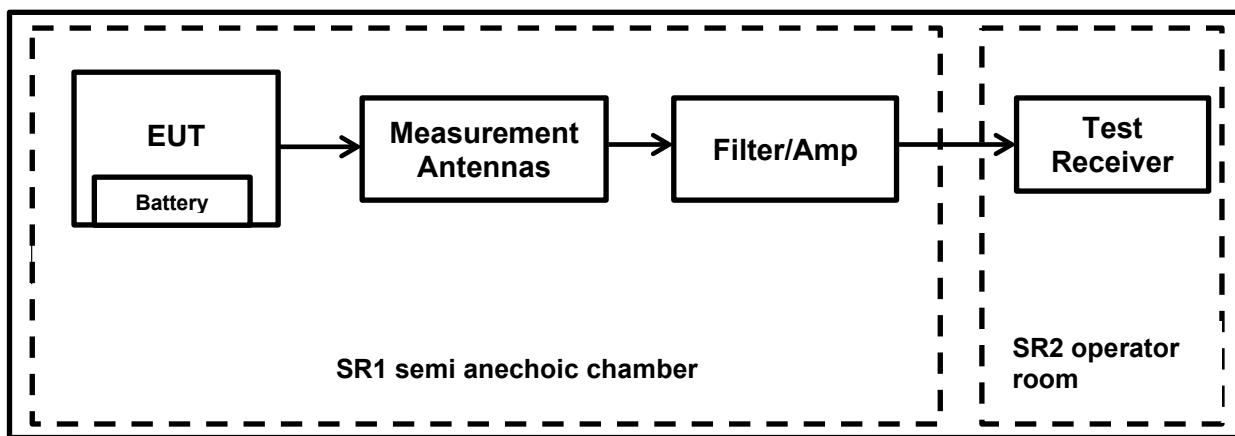
FCC Reference:	Parts 15.249(a)(d)(e) & 15.209(a)
Test Method Used:	ANSI C63.10:2013 Sections 6.3 and 6.4
Frequency Range	9 kHz to 30 MHz

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

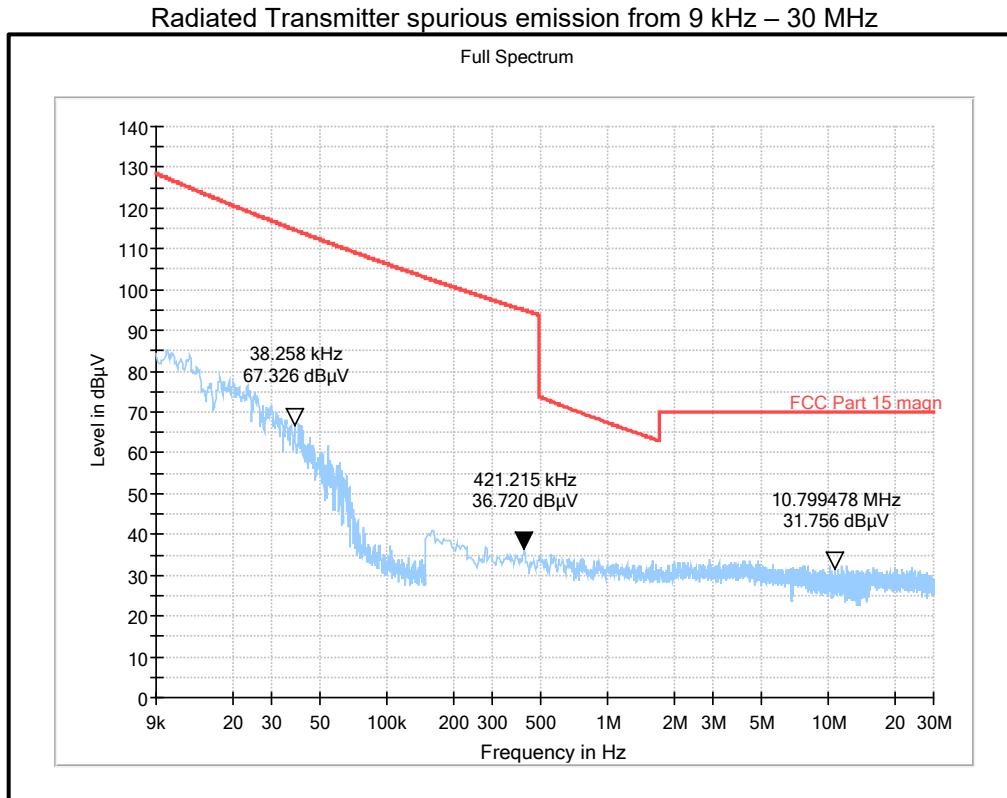
Note(s):

1. In accordance with FCC KDB 414788, an alternative test site may be used for the measurement below 30 MHz (The OATS / SAC comparison data is available upon request). Therefore the result from the semi-anechoic chamber tests is shown in this section of the test report.
2. Measurements below 30 MHz were performed in a semi-anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by searching the loop antenna polarizations set at height of 1 meter.
3. Pre-scans were performed and markers placed on the highest measured levels. The test receiver resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold.
4. All emissions shown on the pre-scan plot were investigated and found to be below the system noise floor.

Transmitter Radiated Emissions (continued)**Test Setup:**

Transmitter Radiated Emissions (continued)**Results: Single Channel**

Frequency (MHz)	Loop Antenna Orientation	Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
No critical spurious emissions were detected					



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Result: Pass

Transmitter Radiated Emissions (continued)**Test Summary:**

Test Engineer:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

FCC Reference:	Parts 15.249(a)(d)(e) & 15.209(a)
Test Method Used:	ANSI C63.10:2013 Sections 6.3 and 6.5
Frequency Range	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

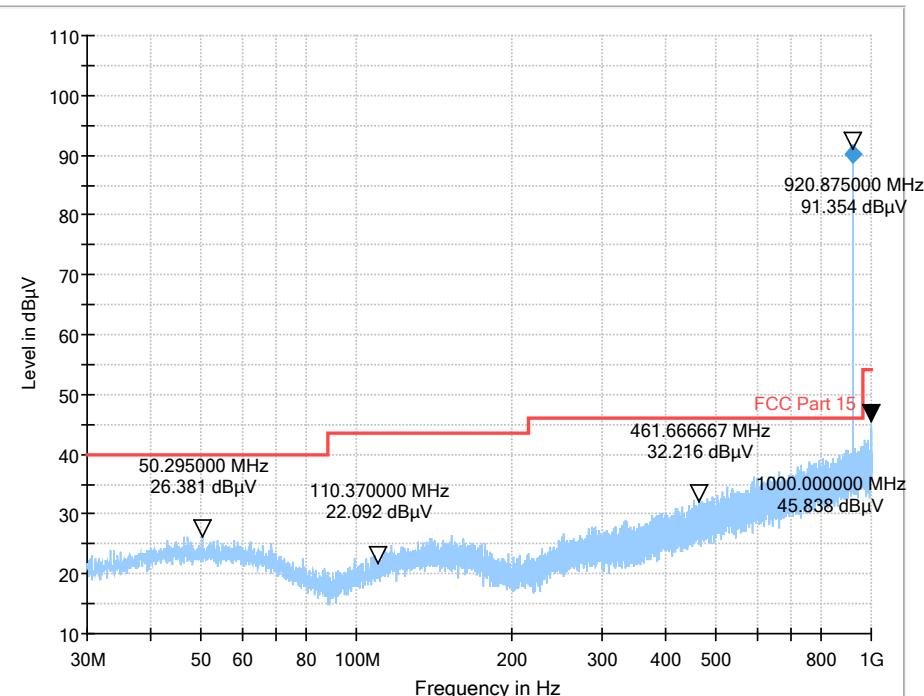
Note(s):

1. The emission shown at a frequency of approximately 920 MHz on the 30 MHz to 1 GHz plot is the EUT fundamental.
2. Measurements below 1 GHz were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 meter to 4 meters.
3. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. The sweep time was set to auto. A peak detector was used, sweep time was set to auto and trace mode was Max Hold.
4. All emissions shown on the pre-scan plot were investigated and found to be below the system noise floor.

Transmitter Radiated Emissions (continued)**Results: Single Channel**

Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
No critical spurious emissions were detected					

Radiated Transmitter spurious emission from 30 MHz – 1 GHz

**Result: Pass**

Transmitter Radiated Emissions (continued)**Test Summary:**

Test Engineer:	Sercan Usta	Test Date:	28 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

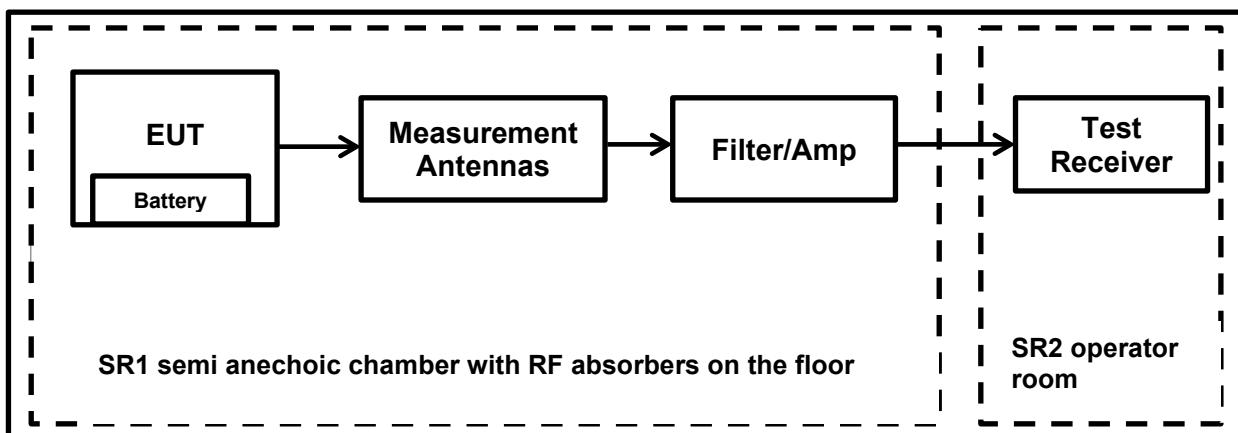
FCC Reference:	Parts 15.249(a)(d)(e) & 15.209(a)
Test Method Used:	ANSI C63.10:2013 Sections 6.3 and 6.6
Frequency Range	1 GHz to 10 GHz

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

Note(s):

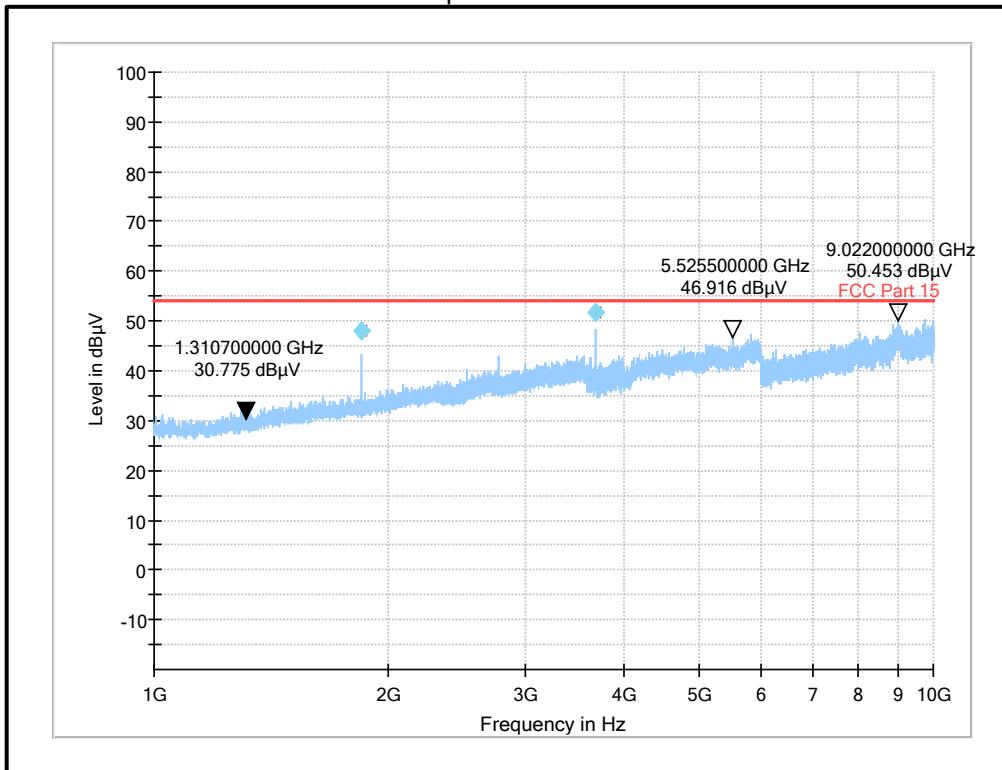
1. Measurements were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 meters. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 meter to 4 meters.
2. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto.
3. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
4. *In accordance with ANSI C63.10 Section 6.6.4.3, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
5. All other emissions shown on the pre-scans were investigated and found to be ambient, or > 20 dB below the appropriate limit or below the noise floor of the measurement system.

Transmitter Radiated Emissions (continued)**Test Setup:**

Transmitter Radiated Emissions (continued)**Results: Single Channel**

Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
1841.75	Vertical	48.21	54.00*	5.79	Complied
3683.67	Vertical	51.58	54.00*	2.42	Complied

Plot: Radiated Transmitter spurious emission from 1 GHz – 10 GHz

**Result: Pass**

5.2.5. Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineer:	Sercan Usta	Test Date:	30 September 2020
Test Sample Serial Number:	2001330Y (Radiated sample)		
Test Site Identification	SR 1/2		

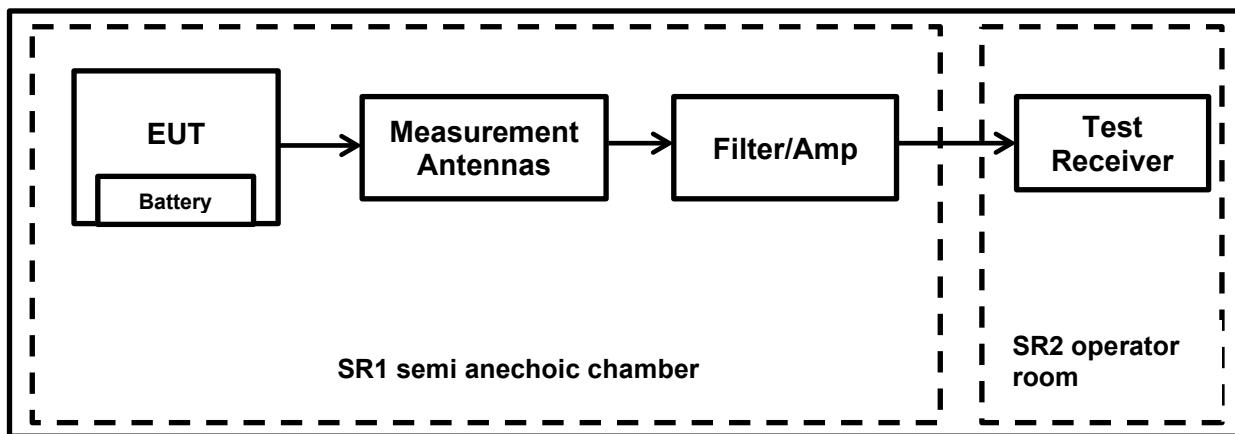
FCC Reference:	Parts 15.249(d) & 15.209
Test Method Used:	ANSI C63.10 Section 6.10.4

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	48

Notes:

1. The tests were performed in a semi anechoic chamber SR1/ 2 (Asset Number 1603665) at a distance of 3 m. The EUT was placed at a height of 80 cm above the test chamber floor in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 m to 4 m.
2. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
3. In accordance with FCC 15.249(d) emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209, whichever is the lesser attenuation.
4. Of which lesser attenuation limit of 46.00 dB μ V/m@3 m in accordance to FCC 15.209; has been applied.
5. As both band edges are adjacent to non-restricted bands, only peak measurements are required. In accordance with ANSI C63.10 Section 6.10.4, was followed.
6. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The test receiver was left to sweep for a sufficient length of time in order to maximise the carrier level and out-of-band emissions. A marker and corresponding reference level line were placed on the peak of the carrier. Marker frequencies and levels were recorded.

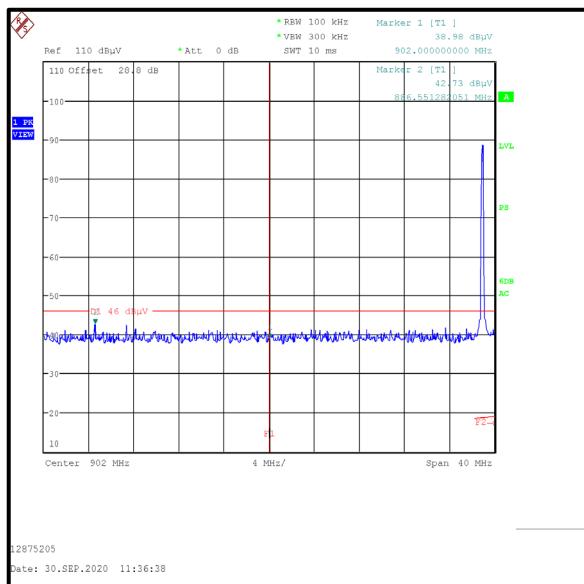
Transmitter Band Edge Radiated Emissions (continued)**Test Setup:**

Transmitter Band Edge Radiated Emissions (continued)**Results: Single Channel / Lower Band Edge / Peak**

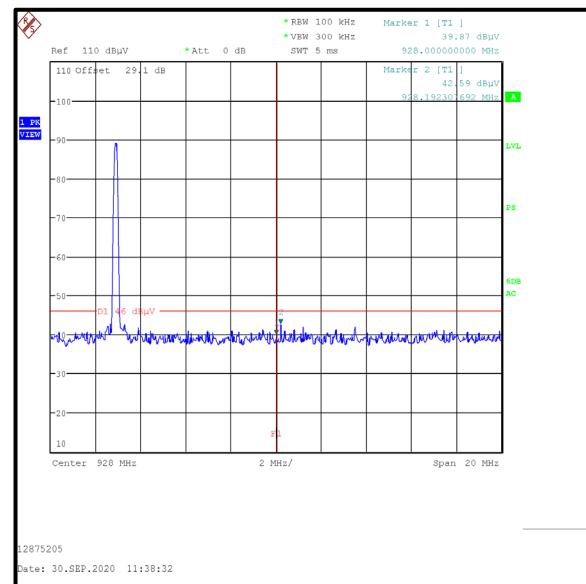
Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
886.551	Horizontal	42.73	46.00	3.27	Complied
902.000	Horizontal	38.98	46.00	7.02	Complied

Results: Single Channel / Upper Band Edge / Peak

Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
928.000	Horizontal	39.87	46.00	6.13	Complied
928.192	Horizontal	42.59	46.00	3.41	Complied

Results: Single Channel

Lower Band Edge Peak Measurement



Upper Band Edge Peak Measurement

Result: Pass

6. Measurement Uncertainty

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and Boosts.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a Boost uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Confidence Level (%)	Calculated Uncertainty
20 dB Bandwidth	95%	$\pm 0.87 \%$
Transmitter Duty Cycle	95%	$\pm 3.4\%$
Fundamental Field Strength	95%	$\pm 3.10 \text{ dB}$
Radiated Spurious Emissions	95%	$\pm 3.10 \text{ dB}$
Band Edge Radiated Emissions	95%	$\pm 3.10 \text{ dB}$

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Used equipment

Test site: SR 1/2

ID	Manufacturer	Type	Model	Serial	Calibration Date	Cal. Cycle (months)
1	Rohde & Schwarz	Antenna, Loop	HFH2-Z2	831247/012	10/07/2020	36
377	BONN Elektronik	Amplifier, Low Noise Pre	BLMA 0118-1A	025294B	08/07/2020	12
460	Deisl	Turntable	DT 4250 S	n/a	n/a	n/a
465	Schwarzbeck	Antenna, Trilog Broadband	VULB 9168	9168-240	02/09/2020	24
496	Rohde & Schwarz	Antenna, log. - periodical	HL050	100297	05/08/2020	36
587	Maturo	antenna mast, tilting	TAM 4.0-E	011/7180311	n/a	n/a
588	Maturo	Controller	NCD	029/7180311	n/a	n/a
591	Rohde & Schwarz	Receiver	ESU 40	100244/040	07/07/2020	12
608	Rohde & Schwarz	Switch Matrix	OSP 120	101227	lab verification	n/a
628	Maturo	Antenna mast	CAM 4.0-P	224/19590716	n/a	n/a
629	Maturo	Kippeinrichtung	KE 2.5-R-M	MAT002	n/a	n/a
-/-	Testo	Thermo-Hygrometer	608-H1	01	lab verification	n/a
328	SPS	AC/DC power distribution system	PAS 5000	A2464 00/2 0200	lab verification	n/a
1603665	Siemens Matsushita Components	semi-anechoic chamber SR1/2	-/-	B83117-A1421-T161	n/a	n/a

8. Report Revision History

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version
Test Report Version 1.1 supersede Version 1.0 with immediate effect			
Test Report No. UL-RPT-RP-12875205-316-FCC Version 1.1, Issue Date 29 OCTOBER 2020 replaces			
Test Report No. UL-RPT-RP-12875205-316-FCC Version 1.0, Issue Date 30 SEPTEMBER 2020, which is no longer valid.			
1.1	as below	as below	Current Version
	1	-	FCC ID corrected
	7	3.1	FCC ID corrected
	12, 15, 18, 21, 26, 29	5.2	Test setup drawings corrected
	17	5.2.3	Note 4 added
	23	5.2.4	Note 1 corrected
	25	5.2.4	Note 5 added
	27	5.2.4	Asterisk placed next to average limit in result table
	28	5.2.5	Note 5 added
	30	5.2.5	Lower Band Edge result table corrected
	32	7	Used equipment list & calibration dates updated

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