

Report Seal

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# **TEST REPORT**

**Product**: RTK GNSS receiver

Trade mark : EMLID

Model/Type reference : REACH RS3

Serial Number : N/A

Report Number : EED32P80561205

FCC ID : 2BAYERCH205

**Date of Issue** : Jun. 25, 2023

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

**Emlid Tech Kft.** 

Raday utca 33/A, 1st floor, 3rd door, Budapest,1092, Hungary

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668

FAX: +86-755-3368 3385

Compiled by: Frazer. Lio Reviewed by:

Frazer Li

Tom Chen

Date: Jun. 25, 2023

Aaron Ma

Check No.::4815210423





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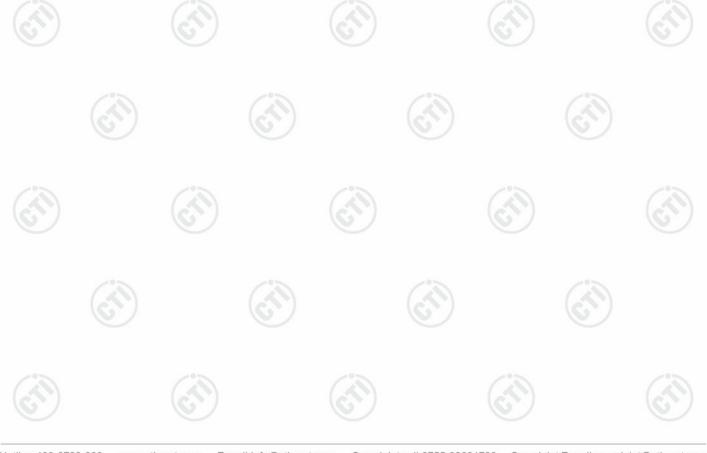
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## 3 Test Summary

Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands			

### Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





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## 4 General Information

## 4.1 Client Information

Applicant:	Emlid Tech Kft
Address of Applicant:	Raday utca 33/A, 1st floor, 3rd door, Budapest,1092, Hungary
Manufacturer:	Ningbo High-tech Zone Ladder Science co., Ltd
Address of Manufacturer:	3/F, Building #1, Zone B, No.428 Dongqing Road, High-tech Zone, Ningbo City, Zhejiang Province
Factory:	Ningbo High-tech Zone Ladder Science co., Ltd
Address of Factory:	3/F, Building #1, Zone B, No.428 Dongqing Road, High-tech Zone, Ningbo City, Zhejiang Province

# 4.2 General Description of EUT

Product Name:	RTK GNSS	receiver			
Model No.:	REACH RS	3			
Trade mark:	EMLID	(0)	(°)		(*)
Product Type:	☐ Mobile	⊠ Portable	☐ Fix Location		
Operation Frequency:	y: 902.9MHz-927.5MHz				
Modulation Type:	LORA				
Transfer Bandwidth:	500kHz		105	-05	
Number of Channel:	42		(31)		
Antenna Type:	External mo	nopole antenna			
Antenna Gain:	2.02dBi				
Power Supply:	USB port:	DC 5.0V			
. энэ эвргу	Battery:	DC 7.2V,52	00mAh,37.44Wh		/2
Test Voltage:	DC 5.0V	(65)	(273)		(6.7)
Sample Received Date:	Apr. 21, 2023				
Sample tested Date:	Apr. 21, 2023 to Jun. 21, 2023				





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Operation Frequency each of channel of TX:

42 channels are provided for DTS Mode (500kHz Bandwidth):

Channel	Freq. (MHz)						
1	902.9	12	909.5	23	916.1	34	922.7
2	903.5	13	910.1	24	916.7	35	923.3
3	904.1	14	910.7	25	917.3	36	923.9
4	904.7	15	911.3	26	917.9	37	924.5
5	905.3	16	911.9	27	918.5	38	925.1
6	905.9	17	912.5	28	919.1	39	925.7
7	906.5	18	913.1	29	919.7	40	926.3
8	907.1	19	913.7	30	920.3	41	926.9
9	907.7	20	914.3	31	920.9	42	927.5
10	908.3	21	914.9	32	921.5		
11	908.9	22	915.5	33	922.1		

### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH1)	902.9MHz
The middle channel (CH21)	914.9MHz
The highest channel (CH42)	927.5MHz

## 4.3 Test Configuration

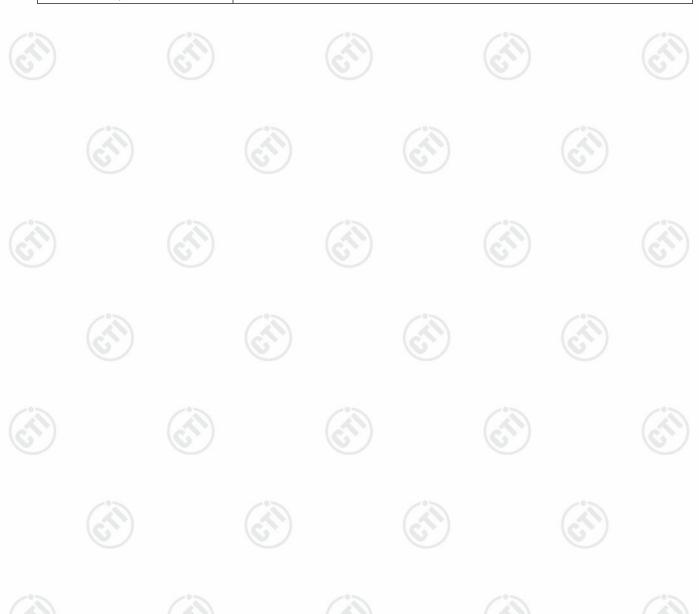
<b>EUT Test Software</b>	Settings:					
Software:	SecureCR	TPortable.exe				
EUT Power Grade:	Default (Poselected)	Default (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to transmitting of the E	set the lowest frequenc UT.	y, the middle frequen	cy and the highest f	requency keep		
Test Mode	Modulation	Bandwidth	Channel	Frequency(MHz)		
Mode a	LORA	500kHz	CH1	902.9		
Mode b LORA 500kHz CH21				914.9		
Mode c LORA 500kHz CH42 927.5						





## 4.4 Test Environment

	Operating Environment	t:				
	Radiated Spurious Emi	ssions:				
19	Temperature:	22~25.0 °C		(41)		(21)
1	Humidity:	50~55 % RH		(0)		6
	Atmospheric Pressure:	1010mbar				
	RF Conducted:					
	Temperature:	22~25.0 °C	(2)		(30)	
	Humidity:	50~55 % RH	(0,)		(0,	
	Atmospheric Pressure:	1010mbar				





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## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	ASUSTek	1	FCC&CE	СТІ
Adapter	XIAOMI		FCC&CE	СТІ

## 4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

## 4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 <sup>-8</sup>
2	DE power conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	10	3.3dB (9kHz-30MHz)
3	Redicted Spurious emission test	4.3dB (30MHz-1GHz)
	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%
	10%	-10%





# 5 Equipment List

RF test system							
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Communication tset set	R&S	CMW500	107929	07-06-2022	07-05-2023		
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023		
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023		
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023		
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023		
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0				

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-06-2022 04-25-2023	05-05-2023 04-24-2024
LISN	R&S	ENV216	100098	09-27-2022	09-26-2023
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	07-13-2022	07-12-2023
ISN	TESEQ	ISN T800	30297	12-29-2022	12-28-2023
Barometer	changchun	DYM3	1188		
Temperature/ Humidity Indicator	Defu	TH128	1	(	(II)
Test software	Fara	EZ-EMC	EMC-CON 3A1.1		







	3M Semi-and	echoic Chamber (2	)- Radiated distui	bance Test		
Equipment	uipment Manufacturer Model		Serial No.	Cal. Date	Due Date	
3M Chamber & Accessory Equipment	TDK	SAC-3		05-22-2022	05-21-2025	
Receiver	R&S	ESCI7	100938-003	09-28-2022	09-27-2023	
Spectrum Analyzer	R&S	FSV40	101200	07-29-2022	07-28-2023	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-22-2022 05-21-2023	05-21-2023 05-20-2024	
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-17-2021	04-16-2024	
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05-29-2021	05-28-2024	
Preamplifier	Agilent	11909A	12-1	03-28-2023	03-27-2024	
Preamplifier	EMCI	EMC051845SE	980380	12-23-2022	12-22-2023	
Preamplifier	CD	PAP-1840-60	6041.6042	07-05-2022	07-04-2023	
Cable line	Fulai(7M)	SF106	5219/6A			
Cable line	Fulai(6M)	SF106	5220/6A	- 3	·	
Cable line	Fulai(3M)	SF106	5216/6A	@		
Cable line	Fulai(3M)	SF106	5217/6A			
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	(II)	<del>-(</del> A)	





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/ ///		211 6 11 1 1		1.0	77
		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber				01-09-2021	01-08-2024
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-30-2021	04-29-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-17-2021	04-16-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	(6)	)
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	- C	7
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	<u></u>	6.
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		
Cable line	Times	EMC104-NMNM-1000	SN160710	- (3	<b>—</b>
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		/
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		-(3)
Cable line	Times	HF160-KMKM-3.00M	393493-0001	<u> </u>	













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### 6 Test results and Measurement Data

## 6.1 Antenna Requirement

**Standard requirement:** 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

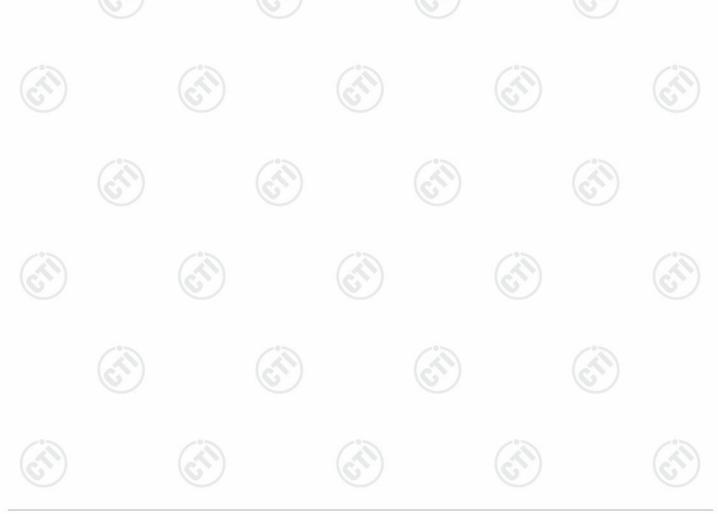
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**EUT Antenna:** Please see Internal photos

The antenna is External monopole antenna. The best case gain of the antenna is 2.02dBi.





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## **6.2 AC Power Line Conducted Emissions**

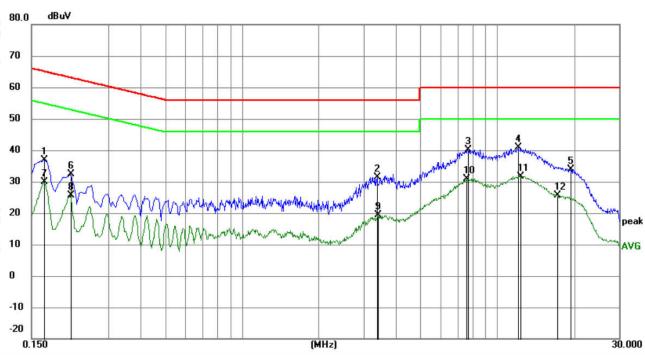
Test Method:  ANSI C63.10: 2013  Test Frequency Range: Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limit:  Frequency range (MHz)  Quasi-peak Average 0.15-0.5 66 to 56' 56 to 46' 0.5-5 56 46 0.5-5 66 0 50  *Decreases with the logarithm of the frequency.  Test Setup:  Test Setup:  Test Setup:  Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500/250µH + 50 linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.  4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The control of the EUT shall be 0.4 m from the vertical ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the bundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of	1	st Requirement:	47 CFR Part 15C Section 15.2	-41	(4)				
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500/50µH + 50 linearing place. The secret plane in the same value of the LISN 1 and the EUT. Amultiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The test was performed with a vertical ground reference plane. Amultiple socket on the horizontal ground reference plane. Amultiple socket on the horizontal ground reference plane. Amultiple socket on the horizontal ground reference plane. The rest was performed with a vertical ground reference plane. Amultiple socket on the horizontal ground reference plane. The rest was performed with a vertical ground reference plane. The rest was performed with a vertical ground reference plane. The rest was performed with a vertical ground reference plane. The rest of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed to a ground reference plane. The rest of the EUT shall be 0.4 m from the vertical ground reference plane. The rest of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed to 3 m from the boundary of the unit under test and bonded to a ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the LISN 1 was placed according to ANSI C63.10: 2013 on conducted measurement.  Test Mode:  All modes were tested, only the worse case mode a was recorded in the report.				207					
Receiver setup:    Committee									
Limit:    Frequency range (MHz)									
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500/50µH + 50 limes impedance. The power cables of all other units of the EUT was connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being masured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.6m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The rear of the EUT shall be of the masured on the horizontal ground reference plane. The rear of the EUT shall be of the masured on the horizontal ground reference plane. The rear of the EUT shall be of the masured of the list of the LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. The rear of the EUT shall be of the masure massision, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.  All modes were tested, only the worse case mode a was recorded in the report.		•							
1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 50 linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.  All modes were tested, only the worse case mode a was recorded in the report.	Lim	IIT:	Frequency range (MHz)	16.5	160				
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500/50µH s 50 inear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.  4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. The test was performed with a vertical ground reference plane of LISNs mounted not por of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.  All modes were tested, only the worse case mode a was recorded in the report.					_				
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 50 linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed on the horizontal ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.  All modes were tested, only the worse case mode a was recorded in the report.									
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The rear of the EUT shall be 0.5 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.			-1°	Z**	46				
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50/2/50µH ± 50 linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.  4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane for LISNs mounted on top of the ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. The list had be captured the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.  All modes were tested, only the worse case mode a was recorded in the report.			[ VQ, V ]	- PO. T.1	50				
Test Procedure:  1) The mains terminal disturbance voltage test was conducted in a shielded room.  2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.  3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.  5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.	<b>T</b>	10.1	* Decreases with the logarithn	n of the frequency.	(0.)				
<ul> <li>room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> <li>Test Mode:</li> <li>All modes were tested, only the worse case mode a was recorded in the report.</li> </ul>			AC Mains	E LISN2 → AC Mai					
Test Mode:  All modes were tested, only the worse case mode a was recorded in the report.	Tes	st Procedure:	room.  2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the ration of the same way a multiple socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single list outlet strip single LISN unit under test and bon mounted on top of the growth of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration of the socket outlet strip single LISN provided the ration outlet strip single strip single LISN provided the ration outlet strip single strip single strip single strip single strip single s	to AC power source etwork) which provides cables of all other SN 2, which was bonde as the LISN 1 for the was used to connect reating of the LISN was not aced upon a non-metand for floor-standing around reference plane. It a vertical ground reffrom the vertical ground plane was bonded to a ground refund reference plane. The LISN 1 and the EUT. As was at least 0.8 m from the mission, the relativales must be changed as	through a LISN 1 (Lines a 50Ω/50μH + 5Ω linea units of the EUT were do to the ground reference unit being measured. Anultiple power cables to a not exceeded.  Ilic table 0.8m above the trangement, the EUT was erence plane. The rear ond reference plane. The to the horizontal ground from the boundary of the erence plane for LISNs his distance was between All other units of the EUT m the LISN 2.				
	Tes	st Mode:	All modes were tested, only the	- ''	was recorded in the				
	Tes	st Results:							





### **Measurement Data**

### Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	27.02	9.87	36.89	65.06	-28.17	peak	
2		3.3855	21.64	9.79	31.43	56.00	-24.57	peak	
3		7.6650	30.41	9.79	40.20	60.00	-19.80	peak	
4		12.0705	31.08	9.84	40.92	60.00	-19.08	peak	
5		19.4280	24.03	9.97	34.00	60.00	-26.00	peak	
6		0.2130	22.49	9.90	32.39	63.09	-30.70	peak	
7		0.1680	20.06	9.87	29.93	55.06	-25.13	AVG	
8		0.2130	15.62	9.90	25.52	53.09	-27.57	AVG	
9		3.4125	9.51	9.79	19.30	46.00	-26.70	AVG	
10		7.5840	21.10	9.79	30.89	50.00	-19.11	AVG	
11	*	12.3180	21.89	9.85	31.74	50.00	-18.26	AVG	
12		17.1960	15.64	9.95	25.59	50.00	-24.41	AVG	

### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.







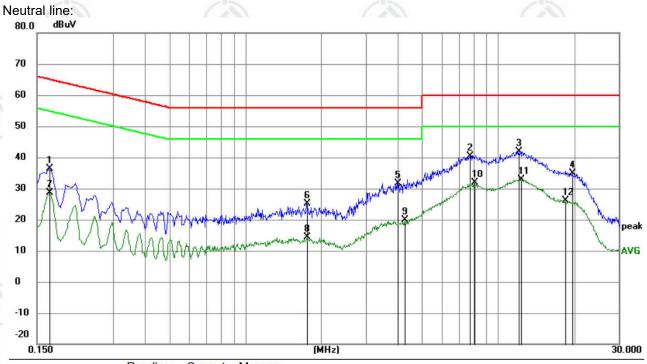












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	26.48	9.87	36.35	65.06	-28.71	peak	
2	)	7.7595	30.54	9.79	40.33	60.00	-19.67	peak	
3		12.1065	32.04	9.84	41.88	60.00	-18.12	peak	
4	9	19.6485	24.81	9.97	34.78	60.00	-25.22	peak	
5		3.9885	21.92	9.78	31.70	56.00	-24.30	peak	
6	7	1.7475	15.31	9.80	25.11	56.00	-30.89	peak	
7		0.1680	18.81	9.87	28.68	55.06	-26.38	AVG	
8		1.7610	4.56	9.80	14.36	46.00	-31.64	AVG	
9		4.2900	10.13	9.78	19.91	46.00	-26.09	AVG	
10		8.0295	22.12	9.79	31.91	50.00	-18.09	AVG	
11	*	12.2640	23.11	9.85	32.96	50.00	-17.04	AVG	
12	į	18.4470	16.15	9.96	26.11	50.00	-23.89	AVG	

### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.















# 6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Computer Power Supply Power Port Port Table  EUT Control Control System System Attenuator Instrument	
	Remark: Offset=Cable loss+ attenuation factor.	(0,0)
Test Procedure:	<ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 × RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul>	
Limit:	30dBm	(64)
Test Mode:	Refer to clause 5.3	
Test Results:	Refer to Appendix DTS	





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# 6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Control Power Supply Power Supply Table  RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW ≥[3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ul>
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

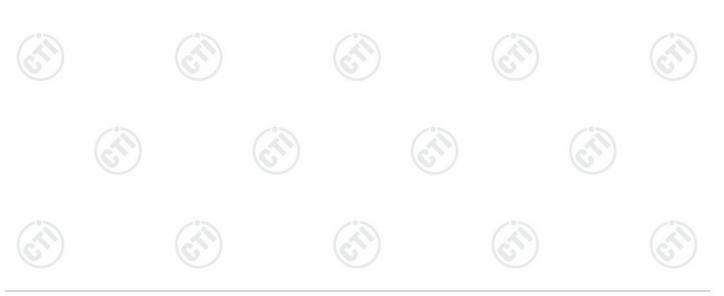






# 6.5 Maximum Power Spectral Density

		1.02
Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 2013	
Test Setup:		(di)
	Control Congular Power pool Actenna pool Supply  Table  RF test System  RF test System Instrumen	t
	Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure:	<ul> <li>a) Set analyzer center frequency to DTS channel cents</li> <li>b) Set the span to 1.5 times the DTS bandwidth.</li> <li>c) Set the RBW to 3 kHz &lt; RBW &lt; 100 kHz.</li> <li>d) Set the VBW &gt; [3 × RBW].</li> <li>e) Detector = RMS.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = average.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the modern within the RBW.</li> <li>j) If measured value exceeds requirement, then rethan 3 kHz) and repeat.</li> </ul>	naximum amplitude level
Limit:	≤8.00dBm/3kHz	
Test Mode:	Refer to clause 5.3	
Test Results:	Refer to Appendix DTS	

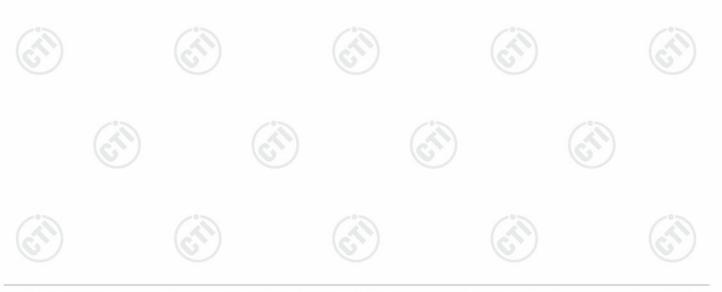






# 6.6 Band Edge measurements and Conducted Spurious Emission

16.	(CAT) (CAT) (CAT)
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Power Supply  Power Supply  Table  RF test  System  System  Instrument  Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = RMS. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

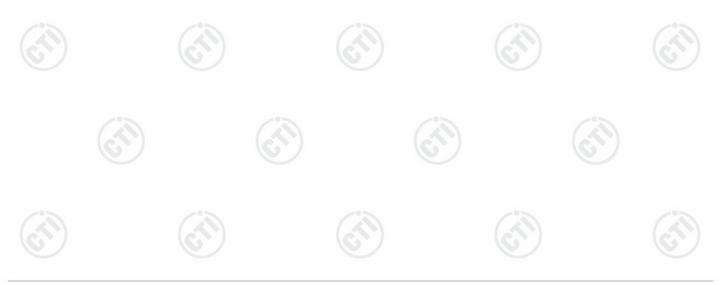






# 6.7 Radiated Spurious Emission & Restricted bands

16.7	165		163		16.	<i></i>
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3m	ı (Semi-Anech	noic Cham	ber)	-0.5
Receiver Setup:	Frequency	10	Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak
	Al 4011-		Peak	1MHz	3MHz	Peak
	Above 1GHz		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter		Limit (dBuV/m)	Remark	Measuremen distance (m
	0.009MHz-0.490MHz 240		400/F(kHz)	-	-/0>	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30
	1.705MHz-30MHz		30	-	-	30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz		150	43.5	Quasi-peak	3
	216MHz-960MHz	6	200	46.0	Quasi-peak	3
	960MHz-1GHz		500	54.0	Quasi-peak	3
	Above 1GHz		500	54.0	Average	3
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the imment under t	maximum est. This p	permitted ave	erage emission

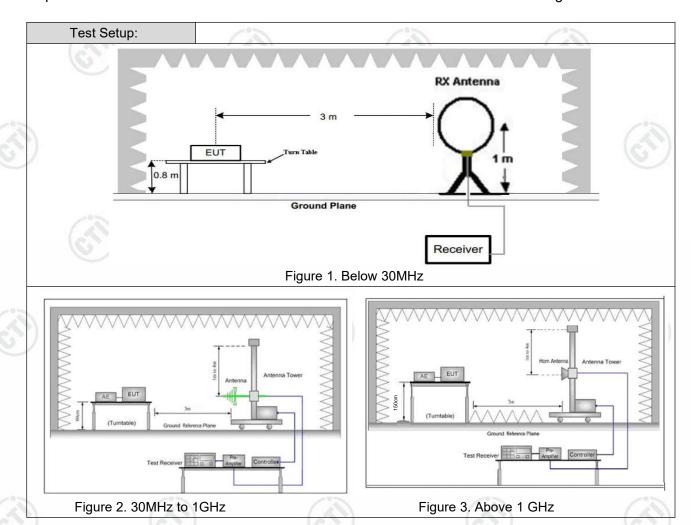








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Test Procedure:	<ul> <li>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0. meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the higher radiation.</li> <li>2) Above 1G: The EUT was placed on the top of a rotating table 1. meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the higher radiation.</li> <li>Note: For the radiated emission test above 1GHz:</li> <li>Place the measurement antenna away from each area of the EU determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be the which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> </ul>
	<ul><li>b. The EUT was set 3 meters away from the interference-receivir antenna, which was mounted on the top of a variable-height antenr tower.</li><li>c. The antenna height is varied from one meter to four meters above the</li></ul>
	ground to determine the maximum value of the field strength. Bo horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights meter) and the rotatable table was turned from 0 degrees to 36 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specific Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10d margin would be re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (902.9MHz),the middle chann (914.9MHz),the Highest channel (927.5MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete
Test Mode:	Refer to clause 5.3











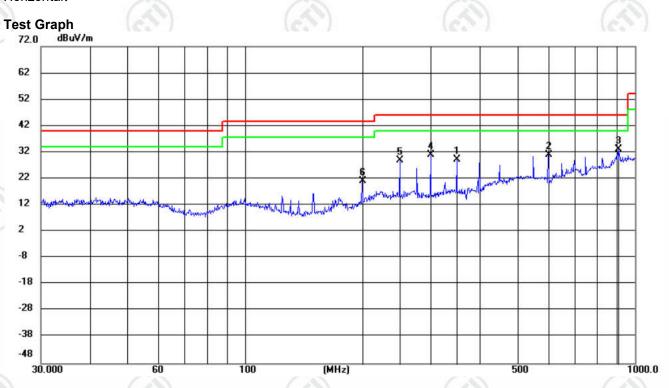


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### Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode a was recorded in the report.

### Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		350.0469	10.94	18.32	29.26	46.00	-16.74	peak	100	7	
2		600.0571	6.99	24.03	31.02	46.00	-14.98	peak	100	247	
3	*	907.7547	4.71	28.46	33.17	46.00	-12.83	peak	200	42	
4		299.9988	13.84	17.25	31.09	46.00	-14.91	peak	200	352	
5		250.0380	13.58	15.52	29.10	46.00	-16.90	peak	200	124	
6		200.0205	7.26	13.78	21.04	43.50	-22.46	peak	100	236	

### Remark:

- 1.Margin=Measurement-Limit;
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.









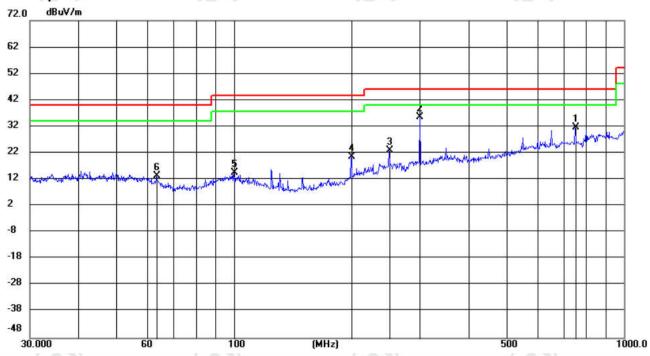




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### Vertical:

### **Test Graph**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		749.8924	5.99	25.56	31.55	46.00	-14.45	peak			
2	*	300.0058	18.20	17.25	35.45	46.00	-10.55	peak			
3		249.9544	7.56	15.51	23.07	46.00	-22.93	peak			
4		200.3657	6.73	13.79	20.52	43.50	-22.98	peak			
5		99.9981	0.62	14.05	14.67	43.50	-28.83	peak			
6		63.3606	1.02	12.39	13.41	40.00	-26.59	peak			

### Remark:

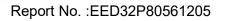
- 1.Margin=Measurement-Limit;
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.













## Radiated Spurious Emission above 1GHz:

Mode	:	Т	ransmitting			Channel:		902.9 MH	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2039.8027	-23.40	58.24	34.84	74.00	39.16	Pass	Н	PK
2	2397.2932	-23.80	64.13	40.33	74.00	33.67	Pass	Н	PK
3	2855.5904	-21.76	59.51	37.75	74.00	36.25	Pass	Н	PK
4	3264.4176	-20.49	57.97	37.48	74.00	36.52	Pass	Н	PK
5	3672.3115	-20.28	56.71	36.43	74.00	37.57	Pass	Н	PK
6	4895.9931	-16.27	53.56	37.29	74.00	36.71	Pass	Н	PK
7	1994.9997	-23.64	66.53	42.89	74.00	31.11	Pass	V	PK
8	2400.0933	-23.80	65.21	41.41	74.00	32.59	Pass	V	PK
9	2856.5238	-21.76	61.14	39.38	74.00	34.62	Pass	V	PK
10	3264.4176	-20.49	58.13	37.64	74.00	36.36	Pass	V	PK
11	3672.3115	-20.28	58.77	38.49	74.00	35.51	Pass	V	PK
12	4895.9931	-16.27	54.24	37.97	74.00	36.03	Pass	V	PK

Mode	:		Transmitting			Channel:		914.9 MH	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2395.4264	-23.81	64.85	41.04	74.00	32.96	Pass	Н	PK
2	2856.5238	-21.76	58.69	36.93	74.00	37.07	Pass	Н	PK
3	3264.4176	-20.49	58.43	37.94	74.00	36.06	Pass	Н	PK
4	3672.3115	-20.28	56.90	36.62	74.00	37.38	Pass	Н	PK
5	4895.9931	-16.27	53.17	36.90	74.00	37.10	Pass	Н	PK
6	6130.8754	-13.36	50.87	37.51	74.00	36.49	Pass	Н	PK
7	1994.0663	-23.65	66.30	42.65	74.00	31.35	Pass	V	PK
8	2397.2932	-23.80	65.16	41.36	74.00	32.64	Pass	V	PK
9	2856.5238	-21.76	61.23	39.47	74.00	34.53	Pass	V	PK
10	3672.3115	-20.28	59.56	39.28	74.00	34.72	Pass	V	PK
11	4895.9931	-16.27	54.65	38.38	74.00	35.62	Pass	V	PK
12	9151.3434	-8.14	54.14	46.00	74.00	28.00	Pass	V	PK











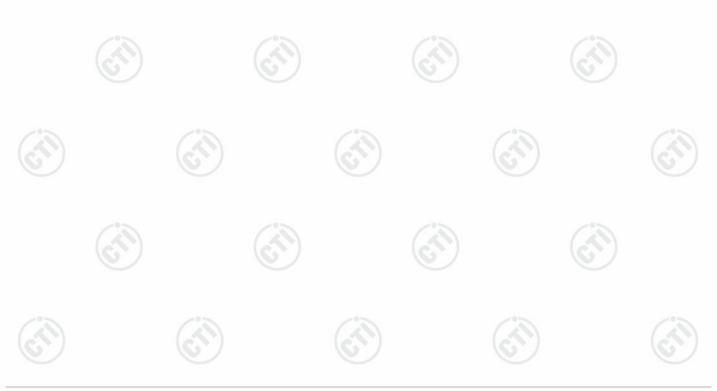


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		20%		19%		20%		100		
	Mode	:		Transmitting			Channel:		927.5 MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2393.5596	-23.81	61.58	37.77	74.00	36.23	Pass	Н	PK
ĺ	2	2856.5238	-21.76	58.77	37.01	74.00	36.99	Pass	Н	PK
	3	3264.4176	-20.49	57.42	36.93	74.00	37.07	Pass	Н	PK
	4	3672.3115	-20.28	57.87	37.59	74.00	36.41	Pass	Н	PK
	5	4895.9931	-16.27	52.02	35.75	74.00	38.25	Pass	Н	PK
	6	5760.3174	-13.50	51.40	37.90	74.00	36.10	Pass	Н	PK
	7	2395.4264	-23.81	64.44	40.63	74.00	33.37	Pass	V	PK
	8	2855.5904	-21.76	60.34	38.58	74.00	35.42	Pass	V	PK
	9	3264.4176	-20.49	57.54	37.05	74.00	36.95	Pass	V	PK
	10	3672.3115	-20.28	57.85	37.57	74.00	36.43	Pass	V	PK
3	11	4080.2053	-18.59	54.68	36.09	74.00	37.91	Pass	V	PK
١	12	4895.9931	-16.27	54.17	37.90	74.00	36.10	Pass	V	PK
-							7.70			1.30

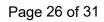
#### Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



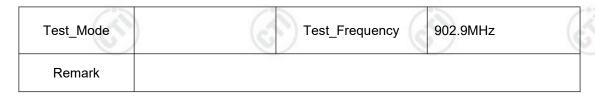




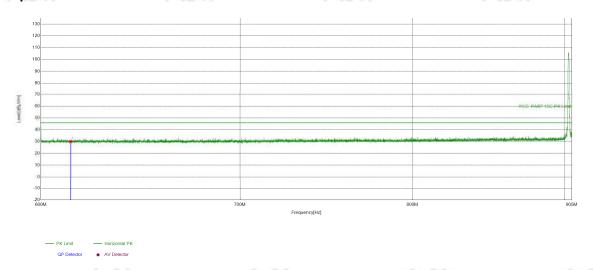


### **Restricted bands:**

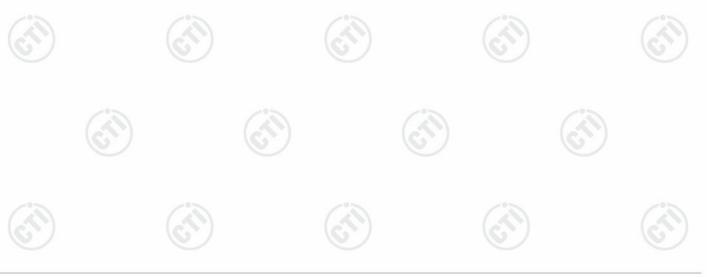
### Test plot as follows:



### Test Graph



T	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	614	-8.49	38.55	30.06	46.00	15.94	PASS	Horizont	PK

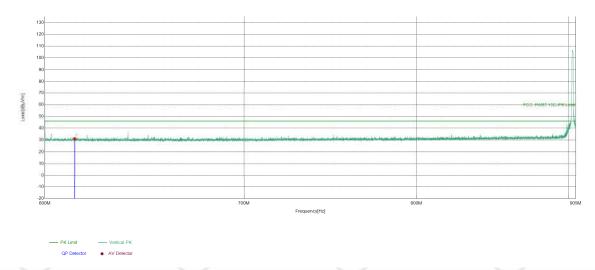




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Test_Mode	(6)	Test_Frequency	902.9MHz	
Remark	. /	(i)		

### **Test Graph**



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	614	-8.49	39.64	31.15	46.00	14.85	PASS	Vertical	PK

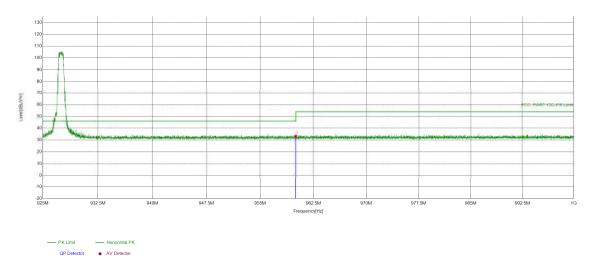




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١	Test_Mode	(6)	Test_Frequency	927.5MHz	
	Remark	. 7	(i)		- (

### **Test Graph**



	Suspecte	Suspected List									
13.0	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	960	-4.37	37.57	33.20	54.00	20.80	PASS	Horizont	PK	



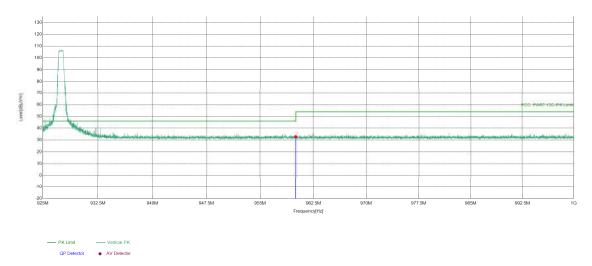




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Test_Mode		Test_Frequency	927.5MHz
Remark	0	(6)	

### **Test Graph**



	Suspecte	Suspected List									
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	960	-4.37	37.07	32.70	54.00	21.30	PASS	Vertical	PK	

### Note:

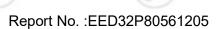
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

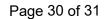
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor



















Refer to report of EED32P80561205 Appendix: LORA DTS.





























































































## **8 PHOTOGRAPHS OF TEST SETUP**

Refer to Report No.EED32P80561201 Appendix: Photographs of test setup.

## 9 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32P80561201 Appendix: External photo and EED32P80561201 Appendix: Internal photo.



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