





RF TEST REPORT

Applicant Positioning Universal Inc

FCC ID 2AHRH-FJ2500MG

Product FJ2500MG 4G LTE Vehicle Telematics Unit

Model FJ2500MG

Report No. R2304A0477-R3

Issue Date May 23, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2022)/ FCC CFR47 Part 27C (2022). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict		
		2.1046			
4	RF Power Output and Effective Isotropic	/27.50(d)(4)	PASS		
1	Radiated Power	/27.50(b)(10)	PASS		
		/27.50(c)(10)			
		2.1053			
	B # 4 40	/27.53(h)	DACC		
2	Radiated Spurious Emission	/27.53(g)	PASS		
		/27.53(f) /27.53(c)			

Date of Testing: April 24, 2023~May 8, 2023 Date of Sample Received: April 21, 2023

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

Only Radiated Spurious Emission is tested for FJ2500MG in this report, and because of the change of antenna gain, Effective Isotropic Radiated Power also re evaluated.

Other test items refer to the Module report (Report No.: STS1912245W01, FCC ID: RI7ME910G1WW).



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology** (**Shanghai**) **Co.**, **Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

City: Shanghai

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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Positioning Universal Inc			
Applicant address	4660 La Jolla Village Drive, Suite 1100, San Diego, CA92122,			
Applicant address	United States			
Manufacturer	Positioning Universal Inc			
Manufacturer address	4660 La Jolla Village Drive, Suite 1100, San Diego, CA92122,			
Manufacturer address	United States			

2.2 General information

	EUT Description						
Model	FJ2500MG						
IMEI	356995842104391						
Hardware Version	P6.2	P6.2					
Software Version	V0.6						
Power Supply	External power supply						
Antenna Type	Fixed Internal Antenna						
	LTE-M Band 4: 1 dBi						
	LTE-M Band 12: 0 dBi						
Antenna Gain	LTE-M Band 13: 0 dBi						
	LTE-M Band 66: 1 dBi						
	LTE-M Band 85: 0 dBi						
Test Mode(s)	LTE-M Band 4/12/13/66	6/85;					
Test Modulation	(LTE-M) QPSK, 16QAN	Л					
LTE-M Category	M1						
	LTE-M Band 4: 24.86 dBm						
	LTE-M Band 12:	21.31 dBm					
Maximum E.I.R.P./ E.R.P.	LTE-M Band 13:	20.89 dBm					
	LTE-M Band 66:	24.81 dBm					
	LTE-M Band 85:	21.09 dBm					
Rated Power Supply Voltage	12V						
Operating Voltage	Minimum: 8V Maxim	um: 32V					
Operating Temperature	Lowest: -30°C Highest: +70°C						
	Mode	Tx (MHz)	Rx (MHz)				
Operating Fraguency Depart (a)	LTE-M Band 4	1710 ~ 1755	2110 ~ 2155				
Operating Frequency Range(s)	LTE-M Band 12	699 ~ 716	729 ~ 746				
	LTE-M Band 13	777 ~ 787	746 ~ 756				



IN Test Report		report iv	0 IX200+A0+11-IX0				
	LTE-M Band 66	1710 ~ 1780	2110 ~ 2180				
	LTE-M Band 85	698 ~ 716	728 ~ 746				
EUT Accessory							
Battery	Manufacturer: BetterPower Battery Co., Ltd.						
Ballery	Model: BPI 18650 3.7V 1S2P						

Note:

1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2022)

FCC CFR47 Part 2 (2022)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01



4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Y axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE-M is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detailin the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test modes are chosen to be reported as the worst case configuration below for LTE-M Band 4/12/13/66/85:

Test items	Modes	Bandwidth (MHz)				Modulation		RB		Test Channel					
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	Н
RF Power	LTE-M 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Output and	LTE-M 12	0	0	0	0	-	-	0	0	0	0	0	0	0	0
Effective	LTE-M 13	-	-	0	0	-	-	0	0	0	0	0	0	0	0
Isotropic Radiated	LTE-M 66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power	LTE-M 85	-	-	0	0	-	-	0	0	0	0	0	0	0	0
	LTE-M 4	0	-	0	-	-	0	0	-	0	-	-	-	0	-
Radiated	LTE-M 12	0	-	0	0	-	-	0	-	0	-	-	-	0	-
Spurious	LTE-M 13	-	-	0	0	-	-	0	-	0	-	-	-	0	-
Emission	LTE-M 66	0	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE-M 85	-	-	0	0	-	-	0	-	0	-	-	-	0	-
Note	1. The mar 2. The mar					•			J						



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5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

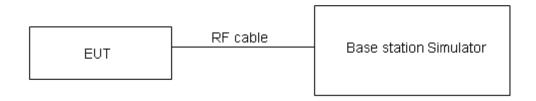
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(b) (10) specifies that "Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP"

Rule Part 27.50(c) (10) specifies that "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"

Rule Part 27.50(d) (4) specifies that "Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP"



Part 27.50(b)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	\leq 1 W (30 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U=0.4 dB for RF power output, k = 2, U=0.19 dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.



5.2 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

Method of Measurement

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
- 2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
- 3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
- 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

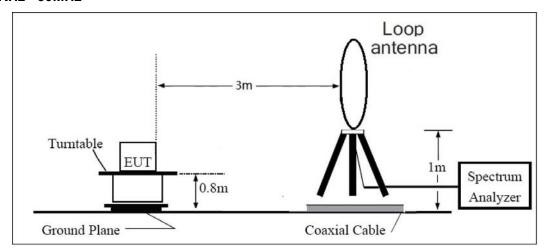
Power(EIRP)=PMea- Pcl + Ga

8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dB.

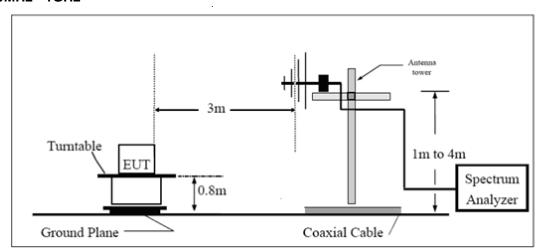
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

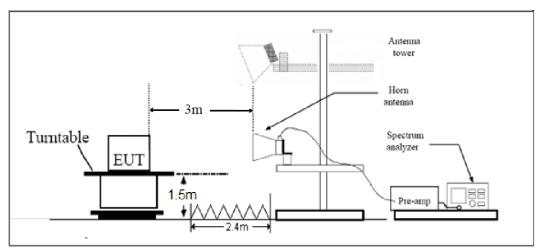
9KHz~ 30MHz



30MHz~1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m



Limits

Rule Part 27.53(h) specifies that "for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB." Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(f)For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation. Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed:

Part 27.53 (h)/(g) Lin	-13 dBm	
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.2 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

Band	BW [MHz]	Modulation	Channel	RB Size	RB Start	NB Index	Result (dBm)	EIRP (dBm)
	1.4		Low	1	0	Low	23.47	24.47
	1.4		Low	6	0	Low	21.48	22.48
	3		Low	1	0	Low	23.86	24.86
	3		Low	6	0	Low	21.26	22.26
	5	QPSK	Low	1	0	Low	23.31	24.31
	5		Low	6	0	Low	22.51	23.51
	10	QFSK	Low	1	0	Low	23.19	24.19
	10		Low	6	0	Low	22.47	23.47
	15		Low	1	0	Low	23.52	24.52
	15		Low	6	0	Low	23.12	24.12
	20		Low	1	0	Low	23.48	24.48
	20		Low	6	0	Low	23.19	24.19
	1.4	16-QAM	Low	1	0	Low	22.25	23.25
	1.4		Low	5	0	Low	21.38	22.38
	3		Low	1	0	Low	22.69	23.69
	3		Low	5	0	Low	21.34	22.34
LTE-M	5		Low	1	0	Low	23.03	24.03
Band 4	5		Low	5	0	Low	21.84	22.84
Danu 4	10	10-QAIVI	Low	1	0	Low	23.27	24.27
	10		Low	5	0	Low	22.45	23.45
	15		Low	1	0	Low	23.53	24.53
	15		Low	5	0	Low	23.41	24.41
	20		Low	1	0	Low	23.30	24.30
	20		Low	5	0	Low	23.59	24.59
	1.4		Middle	1	0	Low	23.49	24.49
	1.4		Middle	6	0	Low	21.37	22.37
	3	QPSK	Middle	1	0	Low	23.48	24.48
	3		Middle	6	0	Low	21.36	22.36
	5		Middle	1	0	Low	23.33	24.33
	5		Middle	6	0	Low	22.44	23.44
	10		Middle	1	0	Low	23.43	24.43
	10		Middle	6	0	Low	22.46	23.46
	15		Middle	1	0	Low	23.46	24.46
	15		Middle	6	0	Low	23.38	24.38
	20		Middle	1	0	Low	23.52	24.52



RF Test Report Report No.: R2304A0477-R3 Middle 6 0 Low 23.43 24.43 20 Middle 0 1.4 1 Low 22.42 23.42 5 0 1.4 Middle Low 21.35 22.35 3 Middle 1 0 Low 22.42 23.42 3 Middle 5 0 Low 21.39 22.39 5 1 0 24.38 Middle Low 23.38 5 Middle 5 0 Low 21.49 22.49 16-QAM 10 1 0 Middle Low 23.41 24.41 Middle 0 10 5 Low 22.53 23.53 Middle 0 24.49 15 1 Low 23.49 15 Middle 5 0 Low 23.51 24.51 20 Middle 0 Low 23.33 24.33 1 5 24.32 20 Middle 0 Low 23.32 1.4 High 1 5 High 23.51 24.51 1.4 6 0 High 21.73 22.73 High 1 5 3 High 24.63 High 23.63 3 High 6 0 High 21.42 22.42 5 High 1 5 High 23.58 24.58 5 3 3 High High 22.50 23.50 **QPSK** 10 1 5 High High 23.36 24.36 10 High 6 0 High 22.88 23.88 15 High 1 5 High 23.69 24.69 0 15 High 6 High 23.40 24.40 20 High 1 5 High 23.13 24.13 0 24.16 20 High 6 High 23.16 1.4 High 1 5 High 22.25 23.25 1.4 High 5 1 High 21.26 22.26 3 High 1 5 High 22.17 23.17 3 5 1 22.83 High High 21.83 5 High 1 5 High 23.30 24.30 5 High 3 3 High 21.77 22.77 16-QAM 10 1 5 High High 23.17 24.17 5 10 1 High 22.68 23.68 High 15 High 1 5 High 23.48 24.48 15 5 1 23.47 24.47 High High 20 High 1 5 High 23.46 24.46 20 5 High 1 High 23.32 24.32

Band	BW	Modulation	Channel	RB	RB	NB Index	Result	ERP (dBm)
	[MHz]			Size	Start		(dBm)	` ,
	1.4		Low	1	0	Low	22.68	20.53
	1.4		Low	6	0	Low	21.37	19.22
	3		Low	1	0	Low	22.79	20.64
	3	QPSK	Low	6	0	Low	21.16	19.01
	5		Low	1	0	Low	23.25	21.10
	5		Low	6	0	Low	22.12	19.97
	10		Low	1	0	Low	23.46	21.31
	10		Low	6	0	Low	22.14	19.99
	1.4		Low	1	0	Low	22.40	20.25
	1.4		Low	5	0	Low	21.07	18.92
	3		Low	1	0	Low	22.08	19.93
	3	16-QAM	Low	5	0	Low	21.26	19.11
	5	10-QAIVI	Low	1	0	Low	22.44	20.29
	5		Low	5	0	Low	21.61	19.46
	10		Low	1	0	Low	22.81	20.66
	10		Low	5	0	Low	22.41	20.26
	1.4		Middle	1	0	Low	22.92	20.77
	1.4		Middle	6	0	Low	21.04	18.89
	3		Middle	1	0	Low	23.06	20.91
LTE-M	3		Middle	6	0	Low	21.38	19.23
Band 12	5	QPSK	Middle	1	0	Low	23.11	20.96
	5		Middle	6	0	Low	22.01	19.86
	10		Middle	1	0	Low	23.24	21.09
	10		Middle	6	0	Low	22.17	20.02
	1.4		Middle	1	0	Low	22.00	19.85
	1.4		Middle	5	0	Low	21.03	18.88
	3		Middle	1	0	Low	22.05	19.90
	3		Middle	5	0	Low	21.04	18.89
	5	16-QAM	Middle	1	0	Low	22.86	20.71
	5		Middle	5	0	Low	21.25	19.10
	10		Middle	1	0	Low	22.98	20.83
	10		Middle	5	0	Low	22.08	19.93
	1.4		High	1	5	High	22.65	20.50
	1.4		High	6	0	High	21.07	18.92
	3		High	1	5	High	23.38	21.23
	3		High	6	0	High	21.03	18.88
	5	QPSK	High	1	5	High	23.35	21.20
	5		High	3	3	High	21.68	19.53
	10		High	1	5	High	22.98	20.83
	10		High	6	0	High	21.95	19.80
	10		підп	U	U	піgп	21.90	19.00



RF Test Report Report No.: R2304A0477-R3 High 1 5 High 22.20 1.4 20.05 1.4 High 5 1 High 21.26 19.11 3 High 1 5 High 22.48 20.33 3 1 High 5 High 21.20 19.05 16-QAM 5 5 20.23 High 1 High 22.38 5 High 3 3 High 21.38 19.23 1 10 High 5 High 22.94 20.79 High 10 High 5 1 21.91 19.76

Band	BW [MHz]	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP (dBm)		
	5		Low	1	0	Low	22.82	20.67		
	5	QPSK	Low	6	0	Low	22.03	19.88		
	10	QPSK	Low	1	0	Low	22.99	20.84		
	10		Low	6	0	Low	22.28	20.13		
	5		Low	1	0	Low	22.29	20.14		
	5	16-QAM	Low	5	0	Low	21.21	19.06		
	10	10-QAM	Low	1	0	Low	22.94	20.79		
	10	QPSK	Low	5	0	Low	22.30	20.15		
	5		Middle	1	0	Low	22.91	20.76		
	5		Middle	6	0	Low	22.01	19.86		
	10		Middle	1	0	Low	22.79	20.64		
LTE-M	10		Middle	6	0	Low	22.04	19.89		
Band 13	5		Middle	1	0	Low	22.60	20.45		
	5	16-QAM	Middle	5	0	Low	20.93	18.78		
	10	10-QAM	Middle	1	0	Low	22.62	20.47		
	10		Middle	5	0	Low	22.16	20.01		
	5		High	1	5	High	23.04	20.89		
	5	ODSK	High	3	3	High	21.88	19.73		
	10	QPSK -	- QPSK -	- QPSK -	High	1	5	High	22.69	20.54
	10		High	6	0	High	22.36	20.21		
	5		High	1	5	High	22.48	20.33		
		16 0 0 14	High	3	3	High	21.27	19.12		
		16-QAM	High	1	5	High	22.45	20.30		
	10		High	5	1	High	22.17	20.02		

Band	BW [MHz]	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	EIRP (dBm)												
	1.4		Low	1	0	Low	22.90	23.90												
	1.4		Low	6	0	Low	21.43	22.43												
	3		Low	1	0	Low	23.81	24.81												
	3		Low	6	0	Low	21.04	22.04												
	5		Low	1	0	Low	23.77	24.77												
	5	ODOK	Low	6	0	Low	22.31	23.31												
	10	QPSK	Low	1	0	Low	23.75	24.75												
	10		Low	6	0	Low	22.45	23.45												
	15		Low	1	0	Low	23.48	24.48												
	15		Low	6	0	Low	23.45	24.45												
	20		Low	1	0	Low	23.72	24.72												
	20		Low	6	0	Low	23.15	24.15												
	1.4		Low	1	0	Low	22.37	23.37												
	1.4		Low	5	0	Low	21.06	22.06												
	3		Low	1	0	Low	22.43	23.43												
	3		Low	5	0	Low	21.07	22.07												
	5		Low	1	0	Low	23.24	24.24												
	5	16-QAM	Low	5	0	Low	21.58	22.58												
	10	10-QAIVI	Low	1	0	Low	23.17	24.17												
LTE-M	10		Low	5	0	Low	22.49	23.49												
Band 66	15		Low	1	0	Low	23.33	24.33												
	15		Low	5	0	Low	23.59	24.59												
	20		Low	1	0	Low	23.36	24.36												
	20		Low	5	0	Low	23.41	24.41												
	1.4		Middle	1	0	Low	23.36	24.36												
	1.4		Middle	6	0	Low	21.36	22.36												
	3	QPSK	Middle	1	0	Low	23.59	24.59												
	3		Middle	6	0	Low	21.31	22.31												
	5		Middle	1	0	Low	23.42	24.42												
	5		Middle	6	0	Low	22.39	23.39												
	10		Middle	1	0	Low	23.41	24.41												
	10										1	- 		-	Middle	6	0	Low	22.41	23.41
	15									Middle	1	0	Low	23.44	24.44					
	15		Middle	6	0	Low	23.37	24.37												
	20		Middle	1	0	Low	23.48	24.48												
	20		Middle	6	0	Low	23.41	24.41												
	1.4		Middle	1	0	Low	22.38	23.38												
	1.4	16-0414	Middle	5	0	Low	21.28	22.28												
	3	16-QAM –	Middle	1	0	Low	22.37	23.37												
	3		Middle	5	0	Low	21.27	22.27												



RF Test Report Report No.: R2304A0477-R3 Middle 1 0 Low 23.44 24.44 5 21.44 5 22.44 5 Middle 0 Low 10 Middle 1 0 Low 23.20 24.20 10 Middle 5 0 Low 22.48 23.48 15 Middle 1 0 Low 23.42 24.42 15 Middle 5 0 23.55 24.55 Low 20 Middle 1 0 Low 23.39 24.39 20 5 0 24.37 Middle Low 23.37 1.4 1 5 High High 23.19 24.19 6 0 22.18 1.4 High High 21.18 5 3 High 1 High 23.59 24.59 3 6 0 High 21.60 22.60 High 5 5 High 24.35 High 1 23.35 5 High 3 3 High 22.83 23.83 **QPSK** 1 10 High 5 High 23.09 24.09 10 0 High 6 High 22.11 23.11 1 5 15 High High 23.43 24.43 15 High 6 0 High 23.44 24.44 5 20 1 High 24.36 High 23.36 24.45 20 High 6 0 High 23.45 1.4 High 1 5 High 22.31 23.31 1.4 High 5 1 High 21.47 22.47 3 1 High 5 High 22.38 23.38 3 High 5 1 High 21.46 22.46 5 1 5 24.48 High High 23.48 5 High 3 3 High 21.47 22.47 16-QAM 5 10 High 1 High 23.20 24.20 10 High 5 1 High 22.70 23.70 15 1 5 23.60 24.60 High High 15 High 5 1 High 23.18 24.18 1 20 High 5 High 23.62 24.62 20 5 1 22.98 23.98 High High



Band	BW [MHz]	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP (dBm)
	5		Low	1	0	Low	23.20	21.05
	5	ODSK	Low	6	0	Low	22.23	20.08
	10	QPSK	Low	1	0	Low	22.80	20.65
	10	16-QAM	Low	6	0	Low	21.94	19.79
	5		Low	1	0	Low	22.88	20.73
	5		Low	5	0	Low	21.10	18.95
	10	10-QAM	Low	1	0	Low	23.24	21.09
	10	QPSK	Low	5	0	Low	22.59	20.44
	5		Middle	1	0	Low	23.00	20.85
	5		Middle	6	0	Low	22.09	19.94
	10		Middle	1	0	Low	22.96	20.81
LTE-M	10		Middle	6	0	Low	22.08	19.93
Band 85	5		Middle	1	0	Low	22.94	20.79
	5	16-QAM	Middle	5	0	Low	21.22	19.07
	10	10-QAM	Middle	1	0	Low	22.95	20.80
	10		Middle	5	0	Low	22.36	20.21
	5		High	1	5	High	22.67	20.52
	5	QPSK	High	3	3	High	21.92	19.77
	10	QPSK	High	1	5	High	22.91	20.76
	10		High	6	0	High	21.75	19.60
	5		High	1	5	High	22.85	20.70
	5 10 16-QAI	16 0 4 14	High	3	3	High	20.94	18.79
		10-QAW	High	1	5	High	22.74	20.59
	10		High	5	1	High	21.94	19.79

6.2 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE-M Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.25	-58.46	2.70	12.70	Horizontal	-48.46	-13.00	35.46	225
3	5197.50	-62.99	3.20	12.50	Horizontal	-53.69	-13.00	40.69	45
4	6930.00	-59.94	4.20	11.80	Horizontal	-52.34	-13.00	39.34	0
5	8662.50	-57.03	4.40	12.50	Horizontal	-48.93	-13.00	35.93	90
6	10395.00	-54.12	4.70	11.30	Horizontal	-47.52	-13.00	34.52	45
7	12127.50	-56.83	5.20	13.80	Horizontal	-48.23	-13.00	35.23	225
8	13860.00	-51.06	5.70	11.30	Horizontal	-45.46	-13.00	32.46	45
9	15592.50	-55.03	6.10	16.80	Horizontal	-44.33	-13.00	31.33	0
10	17325.00	-52.34	6.10	14.20	Horizontal	-44.24	-13.00	31.24	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-57.26	2.70	12.70	Horizontal	-47.26	-13.00	34.26	0
3	5191.50	-62.93	3.20	12.50	Horizontal	-53.63	-13.00	40.63	225
4	6930.00	-58.92	4.20	11.80	Horizontal	-51.32	-13.00	38.32	45
5	8662.50	-58.33	4.40	12.50	Horizontal	-50.23	-13.00	37.23	135
6	10395.00	-53.84	4.70	11.30	Horizontal	-47.24	-13.00	34.24	135
7	12127.50	-56.83	5.20	13.80	Horizontal	-48.23	-13.00	35.23	225
8	13860.00	-50.74	5.70	11.30	Horizontal	-45.14	-13.00	32.14	90
9	15592.50	-54.02	6.10	16.80	Horizontal	-43.32	-13.00	30.32	90
10	17325.00	-52.34	6.10	14.20	Horizontal	-44.24	-13.00	31.24	315

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE-M Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.75	-56.39	2.70	12.70	Horizontal	-46.39	-13.00	33.39	0
3	5170.88	-63.02	3.20	12.50	Horizontal	-53.72	-13.00	40.72	225
4	6930.00	-59.32	4.20	11.80	Horizontal	-51.72	-13.00	38.72	45
5	8662.50	-57.13	4.40	12.50	Horizontal	-49.03	-13.00	36.03	45
6	10395.00	-54.84	4.70	11.30	Horizontal	-48.24	-13.00	35.24	0
7	12127.50	-57.83	5.20	13.80	Horizontal	-49.23	-13.00	36.23	135
8	13860.00	-51.18	5.70	11.30	Horizontal	-45.58	-13.00	32.58	90
9	15592.50	-55.27	6.10	16.80	Horizontal	-44.57	-13.00	31.57	135
10	17325.00	-53.34	6.10	14.20	Horizontal	-45.24	-13.00	32.24	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-56.60	1.70	8.70	Horizontal	-51.75	-13.00	38.75	0
3	2122.50	-65.17	2.10	11.10	Horizontal	-58.32	-13.00	45.32	90
4	2830.00	-66.10	2.30	13.10	Horizontal	-57.45	-13.00	44.45	135
5	3537.50	-62.67	2.60	12.70	Horizontal	-54.72	-13.00	41.72	225
6	4245.00	-53.37	3.30	12.50	Horizontal	-46.32	-13.00	33.32	90
7	4952.50	-60.48	3.40	12.50	Horizontal	-53.53	-13.00	40.53	135
8	5660.00	-60.24	3.30	12.50	Horizontal	-53.19	-13.00	40.19	45
9	6367.50	-59.03	3.80	11.50	Horizontal	-53.48	-13.00	40.48	0
10	7075.00	-56.35	4.20	11.80	Horizontal	-50.90	-13.00	37.90	90

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



RF Test Report

LTE-M Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-56.75	1.70	8.70	Horizontal	-51.90	-13.00	38.90	45
3	2115.90	-64.65	2.10	11.10	Horizontal	-57.80	-13.00	44.80	90
4	2821.20	-66.66	2.30	13.10	Horizontal	-58.01	-13.00	45.01	0
5	3512.50	-63.67	2.60	12.70	Horizontal	-55.72	-13.00	42.72	45
6	4215.00	-63.36	3.30	12.50	Horizontal	-56.31	-13.00	43.31	135
7	4917.50	-61.27	3.40	12.50	Horizontal	-54.32	-13.00	41.32	0
8	5620.00	-60.79	3.30	12.50	Horizontal	-53.74	-13.00	40.74	225
9	6322.50	-58.28	3.80	11.50	Horizontal	-52.73	-13.00	39.73	45
10	7025.00	-56.78	4.20	11.80	Horizontal	-51.33	-13.00	38.33	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.40	-59.89	1.70	8.70	Horizontal	-55.04	-13.00	42.04	45
3	2109.60	-68.42	2.10	11.10	Horizontal	-61.57	-13.00	48.57	0
4	2812.80	-66.31	2.30	13.10	Horizontal	-57.66	-13.00	44.66	225
5	3537.50	-62.89	2.60	12.70	Horizontal	-54.94	-13.00	41.94	0
6	4245.00	-63.26	3.30	12.50	Horizontal	-56.21	-13.00	43.21	0
7	4952.50	-60.88	3.40	12.50	Horizontal	-53.93	-13.00	40.93	225
8	5660.00	-60.29	3.30	12.50	Horizontal	-53.24	-13.00	40.24	45
9	6367.50	-58.26	3.80	11.50	Horizontal	-52.71	-13.00	39.71	225
10	7075.00	-56.88	4.20	11.80	Horizontal	-51.43	-13.00	38.43	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

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^{2.} The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.

LTE-M Band 13 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1559.55	-57.03	1.70	8.70	Horizontal	-50.03	-40.00	10.03	225
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2338.50	-64.46	2.10	12.00	Horizontal	-56.71	-13.00	43.71	225
4	3118.00	-62.88	2.30	13.10	Horizontal	-54.23	-13.00	41.23	0
5	3897.50	-63.62	2.90	12.50	Horizontal	-56.17	-13.00	43.17	90
6	4677.00	-61.70	3.10	12.50	Horizontal	-54.45	-13.00	41.45	45
7	5456.50	-60.28	3.30	12.50	Horizontal	-53.23	-13.00	40.23	135
8	6236.00	-60.52	3.50	12.80	Horizontal	-53.37	-13.00	40.37	0
9	7015.50	-56.70	4.20	11.80	Horizontal	-51.25	-13.00	38.25	225
10	7795.00	-55.99	4.40	12.30	Horizontal	-50.24	-13.00	37.24	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 13 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1554.00	-55.98	1.70	8.70	Horizontal	-51.13	-13.00	38.13	45
3	2331.00	-61.26	2.10	12.00	Horizontal	-53.51	-13.00	40.51	225
4	3108.00	-64.11	2.30	13.10	Horizontal	-55.46	-13.00	42.46	225
5	3885.00	-63.77	2.90	12.50	Horizontal	-56.32	-13.00	43.32	0
6	4662.00	-61.57	3.10	12.50	Horizontal	-54.32	-13.00	41.32	0
7	5439.00	-60.29	3.30	12.50	Horizontal	-53.24	-13.00	40.24	225
8	6216.00	-61.19	3.50	12.80	Horizontal	-54.04	-13.00	41.04	315
9	6993.00	-57.14	4.20	11.80	Horizontal	-51.69	-13.00	38.69	45
10	7770.00	-56.16	4.40	12.30	Horizontal	-50.41	-13.00	37.41	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Vertical position.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE-M Band 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3509.25	-76.24	2.70	12.70	Horizontal	-66.24	-13.00	53.24	0
3	5262.50	-73.51	3.20	12.50	Horizontal	-64.21	-13.00	51.21	90
4	7018.00	-68.83	4.20	11.80	Horizontal	-61.23	-13.00	48.23	45
5	8772.50	-66.66	4.40	12.50	Horizontal	-58.56	-13.00	45.56	135
6	10527.00	-63.29	4.70	11.80	Horizontal	-56.19	-13.00	43.19	0
7	12281.50	-66.95	5.20	13.80	Horizontal	-58.35	-13.00	45.35	225
8	14036.00	-62.91	5.70	13.20	Horizontal	-55.41	-13.00	42.41	45
9	15790.50	-64.94	6.10	16.80	Horizontal	-54.24	-13.00	41.24	225
10	17545.00	-62.35	6.10	14.20	Horizontal	-54.25	-13.00	41.25	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3486.00	-64.80	2.70	12.70	Horizontal	-54.80	-13.00	41.80	0
3	5229.00	-73.45	3.20	12.50	Horizontal	-64.15	-13.00	51.15	45
4	6972.00	-69.73	4.20	11.80	Horizontal	-62.13	-13.00	49.13	135
5	8715.00	-67.34	4.40	12.50	Horizontal	-59.24	-13.00	46.24	0
6	10458.00	-64.12	4.70	11.80	Horizontal	-57.02	-13.00	44.02	45
7	12201.00	-66.41	5.20	13.80	Horizontal	-57.81	-13.00	44.81	135
8	13944.00	-63.71	5.70	13.20	Horizontal	-56.21	-13.00	43.21	45
9	15687.00	-64.29	6.10	16.80	Horizontal	-53.59	-13.00	40.59	0
10	17430.00	-62.33	6.10	14.20	Horizontal	-54.23	-13.00	41.23	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE-M Band 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.88	-72.14	2.70	12.70	Horizontal	-62.14	-13.00	49.14	45
3	5209.00	-72.52	3.20	12.50	Horizontal	-63.22	-13.00	50.22	135
4	6945.75	-69.71	4.20	11.80	Horizontal	-62.11	-13.00	49.11	0
5	8682.00	-66.86	4.40	12.50	Horizontal	-58.76	-13.00	45.76	45
6	10418.63	-64.52	4.70	11.80	Horizontal	-57.42	-13.00	44.42	135
7	12455.00	-66.84	5.20	13.80	Horizontal	-58.24	-13.00	45.24	45
8	13891.50	-63.77	5.70	13.20	Horizontal	-56.27	-13.00	43.27	0
9	15627.00	-64.91	6.10	16.80	Horizontal	-54.21	-13.00	41.21	225
10	17364.38	-61.65	6.10	14.20	Horizontal	-53.55	-13.00	40.55	225

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

LTE-M Band 85 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1409.00	-52.32	1.70	8.70	Horizontal	-47.47	-13.00	34.47	270
3	2113.50	-62.16	2.10	11.10	Horizontal	-55.31	-13.00	42.31	225
4	2818.00	-65.16	2.30	13.10	Horizontal	-56.51	-13.00	43.51	90
5	3522.50	-61.99	2.60	12.70	Horizontal	-54.04	-13.00	41.04	225
6	4227.00	-63.07	3.30	12.50	Horizontal	-56.02	-13.00	43.02	0
7	4931.50	-59.92	3.40	12.50	Horizontal	-52.97	-13.00	39.97	315
8	5636.00	-60.94	3.30	12.50	Horizontal	-53.89	-13.00	40.89	90
9	6340.50	-58.09	3.80	11.50	Horizontal	-52.54	-13.00	39.54	45
10	7045.00	-57.18	4.20	11.80	Horizontal	-51.73	-13.00	38.73	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



RF Test Report

Report No.: R2304A0477-R3 LTE-M Band 85 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1404.00	-52.69	1.70	8.70	Horizontal	-47.84	-13.00	34.84	45
3	2106.00	-47.91	2.10	11.10	Horizontal	-41.06	-13.00	28.06	135
4	2808.00	-65.53	2.30	13.10	Horizontal	-56.88	-13.00	43.88	135
5	3510.00	-63.81	2.60	12.70	Horizontal	-55.86	-13.00	42.86	45
6	4212.00	-63.37	3.30	12.50	Horizontal	-56.32	-13.00	43.32	180
7	4914.00	-60.90	3.40	12.50	Horizontal	-53.95	-13.00	40.95	45
8	5616.00	-60.69	3.30	12.50	Horizontal	-53.64	-13.00	40.64	135
9	6318.00	-58.31	3.80	11.50	Horizontal	-52.76	-13.00	39.76	135
10	7020.00	-56.32	4.20	11.80	Horizontal	-50.87	-13.00	37.87	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.



7 Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	R&S	CMW500	150415	2022-05-14	2023-05-13
Wireless Communication Tester	Agilent	E5515C	MY48367192	2022-05-14	2023-05-13
	Radia	ited Spurious Em	ission		
Spectrum Analyzer	R&S	FSV40	101186	2022-05-14	2023-05-13
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01439	2021-06-30	2024-06-29
Horn Antenna	Schwarzbeck	BBHA 9120D	01799	2022-09-01	2025-08-31
Horn Antenna ETS-Lindgren		3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	10.35.10	1	/

******END OF REPORT ******



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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