RF TEST REPORT

Applicant	UAB TELTONIKA TELEMATICS
FCC ID	2A3HUFMM920
Product	Fleet Management System
Brand	TELTONIKA TELEMATICS
Model	FMM920-Q3IB0
Report No.	R2208A0723-R6
Issue Date	September 16, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. 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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TABLE OF CONTENT

1 Test Laboratory 4
1.1 Notes of the Test Report 4
1.2. Test facility 4
1.3 Testing Location 4
2 General Description of Equipment under Test 5
2.1 Applicant and Manufacturer Information 5
2.2 General information 5
3 Applied Standards 7
4 Test Configuration 8
5 Test Case 9
5.1 RF Power Output and Effective Isotropic Radiated Power 9
5.2 Radiated Spurious Emission 11
6 Test Results 15
6.1 RF Power Output and Effective Isotropic Radiated Power 15
6.2 Radiated Spurious Emission 18
7 Main Test Instruments 27
ANNEX A: The EUT Appearance 28
ANNEX B: Test Setup Photos 29

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(c)(10	PASS
2	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(g)	PASS
Date of Testing: August 11, 2022 ~ August 15, 2022 Date of Sample Received: August 5, 2022			
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.			

This report only tests Effective Radiated Power and Radiated Spurious Emission. For other test items, please refer to Module Report (Report No: R2003A0152-R5, FCC ID: XMR201910BG95M3).

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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, Tangzhen Industry Park, Pudong Shanghai, China
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	UAB TELTONIKA TELEMATICS
Applicant address	Saltoniskiu st. 9B-1,Vilnius,Lithuania
Manufacturer	UAB TELTONIKA TELEMATICS
Manufacturer address	Saltoniskiu st. 9B-1,Vilnius,Lithuania
Factory	UAB TELTONIKA EMS
Factory address	Ditvos st. 6, Vilnius,Lithuania

2.2 General information

EUT Description		
Model	FMM920-Q3IB0	
IMEI	863257068183666	
Hardware Version	FMM920-03	
Software Version	FMB.Ver.03.28.02	
Power Supply	External power supply	
Antenna Type	Fixed Internal Antenna	
Antenna Gain	NB-IoT Band 4:	0.83 dBi
	NB-IoT Band 12:	2.12 dBi
	NB-IoT Band 13:	2.10 dBi
	NB-IoT Band 66:	0.83 dBi
	NB-IoT Band 71	1.74 dBi
	NB-IoT Band 85	2.07 dBi
Test Mode(s)	NB-IoT Band 4/12/13/66/71/85;	
Test Modulation	BPSK, QPSK	
Category	NB2	
Deployment	stand-alone	
Sub-carrier spacing	3.75KHz, 15KHz	
Ntones	single-tone, multi-tone	
Maximum E.I.R.P./ E.R.P.	NB-IoT Band 4:	21.02 dBm
	NB-IoT Band 12:	20.63 dBm
	NB-IoT Band 13:	20.57 dBm
	NB-IoT Band 66:	20.91 dBm
	NB-IoT Band 71	20.13 dBm
	NB-IoT Band 85	20.77 dBm
Rated Power Supply Voltage	12V	
Operating Voltage	Minimum: 10V Maximum: 30V	

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Operating Temperature	Lowest: -20°C Highest: +85°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	NB-IoT Band 4:	1710 ~ 1755	2110 ~ 2155
	NB-IoT Band 12:	699 ~ 716	729 ~ 746
	NB-IoT Band 13:	777 ~ 787	746 ~ 756
	NB-IoT Band 66:	1710 ~ 1780	2110 ~ 2200
	NB-IoT Band 71	663 ~ 698	617 ~ 652
	NB-IoT Band 85	698 ~ 716	728 ~ 746
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			

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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 (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

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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 (Z axis, vertical polarization) and the worst case was recorded.

All modes as Subcarrier Spacing, modulations, Channel were investigated.
Subsequently, only the worst case emissions are reported.
The following testing in NB-IOT is set based on the maximum RF Output Power.
The following testing in different mode is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for NB-IOT Band 4/12/13/66/71/85:

Test items	Mode	Deployment mode	Subcarrier Spacing (kHz)		Modulation		Test Channel		
		Stand-alone	3.75	15	BPSK	QPSK	L	M	H
RF Power Output and Effective Isotropic Radiated Power	NB-IOT B4	O	O	O	O	O	O	O	O
	NB-IOT B12	O	O	O	O	O	O	O	O
	NB-IOT B13	O	O	O	O	O	O	O	O
	NB-IOT B66	O	O	O	O	O	O	O	O
	NB-IOT B71	O	O	O	O	O	O	O	O
	NB-IOT B85	O	O	O	O	O	O	O	O
Radiated Spurious Emission	NB-IOT B4	O	-	O	-	O	O	O	O
	NB-IOT B12	O	-	O	-	O	O	O	O
	NB-IOT B13	O	-	O	-	O	O	O	O
	NB-IOT B66	O	-	O	-	O	O	O	O
	NB-IOT B71	O	-	O	-	O	O	O	O
	NB-IOT B85	O	-	O	-	O	O	O	O
Note 1. The mark “O” means that this configuration is chosen for testing. 2. The mark “-” means that this configuration is not testing.									

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5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

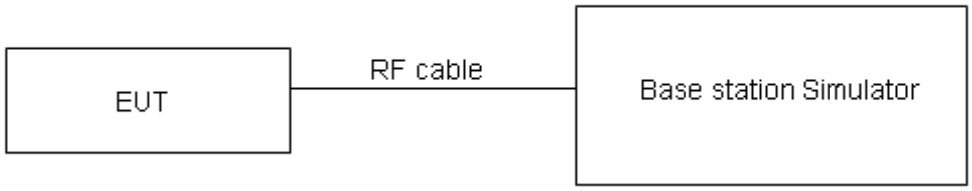
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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) - Losses (dB) + Antenna Gain (dBi)
where:dBd refers to gain relative to an ideal dipole.
EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

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”
Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

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Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit	≤ 2 W (33 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= 1.19 dB for ERP/EIRP.

Test Results

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

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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 (Pcl) ,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.

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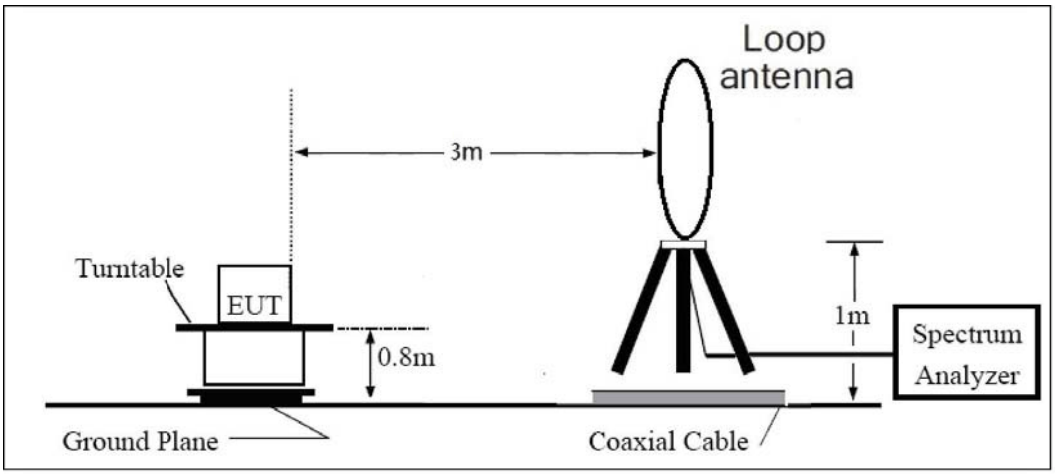
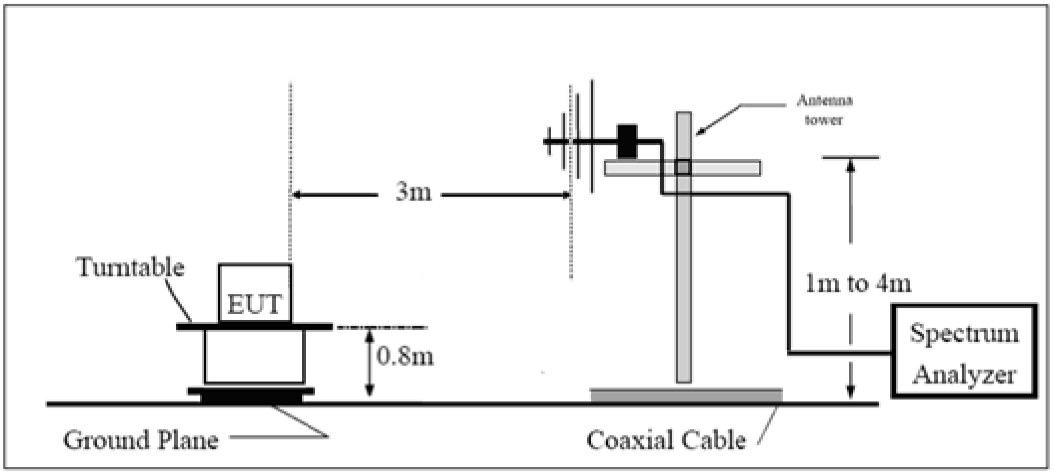
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

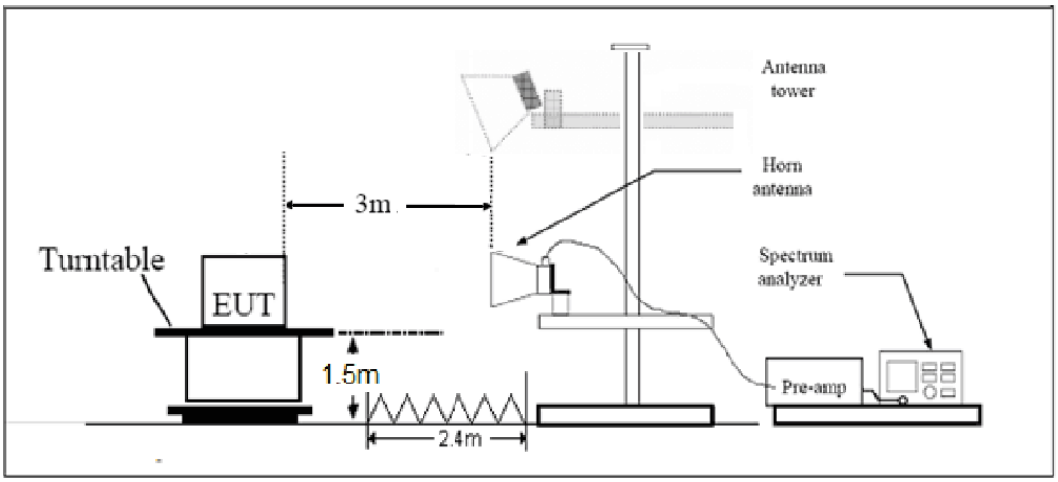
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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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) Limit		-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 = ±1.96, U= ±3.55 dB.

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Test Results

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

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6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

RF Power Output refer to Module Report

Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			EIRP (dBm)		
				19952/ 1710.2	20175/ 1732.5	20398/ 1754.8	19952/ 1710.2	20175/ 1732.5	20398/ 1754.8
NB-IoT Band 4	BPSK	3.75	1@0	20.18	20.19	20.19	21.01	21.02	21.02
			1@47	20.16	20.08	20.12	20.99	20.91	20.95
		15	1@0	20.18	20.12	20.15	21.01	20.95	20.98
			1@11	20.13	20.11	20.11	20.96	20.94	20.94
	QPSK	3.75	1@0	20.14	20.14	20.14	20.97	20.97	20.97
			1@47	20.13	20.17	20.12	20.96	21.00	20.95
		15	1@0	20.12	20.16	20.13	20.95	20.99	20.96
			1@11	20.15	20.15	20.19	20.98	20.98	21.02
		15	12@0	18.97	18.69	18.97	19.80	19.52	19.80

Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			ERP (dBm)		
				23012/ 699.2	23095/ 707.5	23178/ 715.8	23012/ 699.2	23095/ 707.5	23178/ 715.8
NB-IoT Band 12	BPSK	3.75	1@0	20.65	20.61	20.66	20.62	20.58	20.63
			1@47	20.47	20.51	20.56	20.44	20.48	20.53
		15	1@0	20.34	20.66	20.66	20.31	20.63	20.63
			1@11	20.26	20.64	20.54	20.23	20.61	20.51
	QPSK	3.75	1@0	20.47	20.52	20.53	20.44	20.49	20.50
			1@47	20.49	20.38	20.64	20.46	20.35	20.61
		15	1@0	20.30	20.61	20.65	20.27	20.58	20.62
			1@11	20.29	20.63	20.66	20.26	20.60	20.63
		15	12@0	19.03	18.95	19.35	19.00	18.92	19.32

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Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			ERP (dBm)		
				23182/ 777.2	23230/ 782	23278/ 786.8	23182/ 777.2	23230/ 782	23278/ 786.8
NB-IoT Band 13	BPSK	3.75	1@0	20.34	20.61	20.51	20.29	20.56	20.46
			1@47	20.23	20.49	20.49	20.18	20.44	20.44
		15	1@0	20.45	20.59	20.21	20.40	20.54	20.16
			1@11	20.41	20.56	20.14	20.36	20.51	20.09
	QPSK	3.75	1@0	20.35	20.44	20.62	20.30	20.39	20.57
			1@47	20.33	20.46	20.35	20.28	20.41	20.30
		15	1@0	20.45	20.55	20.51	20.40	20.50	20.46
			1@11	20.43	20.54	20.54	20.38	20.49	20.49
		15	12@0	19.42	19.52	19.45	19.37	19.47	19.40

Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			ERP (dBm)		
				131974/ 1710.2	132322/ 1745	132670/ 1779.8	131974/ 1710.2	132322/ 1745	132670/ 1779.8
NB-IoT Band 66	BPSK	3.75	1@0	19.60	20.01	20.08	20.43	20.84	20.91
			1@47	19.61	19.98	20.07	20.44	20.81	20.90
		15	1@0	19.62	20.08	20.01	20.45	20.91	20.84
			1@11	19.57	20.01	19.99	20.40	20.84	20.82
	QPSK	3.75	1@0	19.53	19.95	20.03	20.36	20.78	20.86
			1@47	19.54	19.93	20.02	20.37	20.76	20.85
		15	1@0	19.53	20.07	20.07	20.36	20.90	20.90
			1@11	19.57	20.06	20.06	20.40	20.89	20.89
		15	12@0	18.75	18.86	18.88	19.58	19.69	19.71

Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			ERP (dBm)		
				133124/ 663.2	133297/ 680.5	133470/ 697.8	133124/ 663.2	133297/ 680.5	133470/ 697.8
NB-IoT Band 71	BPSK	3.75	1@0	20.44	20.33	20.54	20.03	19.92	20.13
			1@47	20.43	20.24	20.51	20.02	19.83	20.10
		15	1@0	20.54	20.28	20.43	20.13	19.87	20.02
			1@11	20.53	20.27	20.47	20.12	19.86	20.06
	QPSK	3.75	1@0	20.49	20.20	20.52	20.08	19.79	20.11
			1@47	20.43	20.19	20.42	20.02	19.78	20.01
		15	1@0	20.50	20.27	20.41	20.09	19.86	20.00
			1@11	20.54	20.28	20.54	20.13	19.87	20.13
		15	12@0	19.45	19.10	19.08	19.04	18.69	18.67

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Mode	Modulation	Sub-carrier spacing (KHz)	Ntones	Maximum Output Power (dBm) for low/middle/high channel			ERP (dBm)		
				134004/ 698.2	134081/ 705.9	134180/ 715.8	134004/ 698.2	134081/ 705.9	134180/ 715.8
NB-IoT Band 85	BPSK	3.75	1@0	20.24	20.71	20.38	22.18	22.07	22.28
			1@47	20.13	20.58	20.26	22.17	21.98	22.25
		15	1@0	20.22	20.85	20.80	22.28	22.02	22.17
			1@11	20.20	20.84	20.82	22.27	22.01	22.21
	QPSK	3.75	1@0	20.17	20.81	20.34	22.23	21.94	22.26
			1@47	20.27	20.83	20.24	22.17	21.93	22.16
		15	1@0	20.24	20.80	20.83	22.24	22.01	22.15
			1@11	20.16	20.79	20.84	22.28	22.02	22.28
		15	12@0	18.36	18.99	18.89	21.19	20.84	20.82

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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.

NB-IoT Band 4 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3420.00	-56.77	2.6	10.15	Vertical	-49.22	-13.00	36.22	225
3	5130.00	-63.08	2.4	11.35	Vertical	-54.13	-13.00	41.13	45
4	6840.00	-60.27	4.5	10.85	Vertical	-53.92	-13.00	40.92	135
5	8550.00	-55.14	5.1	11.35	Vertical	-48.89	-13.00	35.89	45
6	10260.00	-52.18	5.3	11.95	Vertical	-45.53	-13.00	32.53	135
7	11970.00	-52.97	5.5	13.55	Vertical	-44.92	-13.00	31.92	45
8	13680.00	-51.29	6.3	13.75	Vertical	-43.84	-13.00	30.84	0
9	15390.00	-52.51	6.7	13.85	Vertical	-45.36	-13.00	32.36	135
10	17100.00	-50.95	6.8	14.25	Vertical	-43.50	-13.00	30.50	45
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.									

NB-IoT Band 4 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.00	-58.07	2.6	10.75	Vertical	-49.92	-13.00	36.92	225
3	5197.50	-63.46	2.4	11.05	Vertical	-54.81	-13.00	41.81	0
4	6930.00	-61.46	4.5	11.15	Vertical	-54.81	-13.00	41.81	45
5	8662.50	-54.90	5.1	11.35	Vertical	-48.65	-13.00	35.65	0
6	10395.00	-52.19	5.3	11.95	Vertical	-45.54	-13.00	32.54	45
7	12127.50	-53.65	5.5	13.55	Vertical	-45.60	-13.00	32.60	0
8	13860.00	-50.46	6.3	13.75	Vertical	-43.01	-13.00	30.01	45
9	15592.50	-53.16	6.7	13.85	Vertical	-46.01	-13.00	33.01	0
10	17325.00	-50.39	6.8	14.25	Vertical	-42.94	-13.00	29.94	45
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.									

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NB-IoT Band 4 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3509.80	-59.62	2.6	10.15	Vertical	-52.07	-13.00	39.07	0
3	5264.70	-64.08	2.4	11.05	Vertical	-55.43	-13.00	42.43	45
4	7019.60	-57.66	4.5	11.15	Vertical	-51.01	-13.00	38.01	45
5	8774.50	-54.61	5.1	11.35	Vertical	-48.36	-13.00	35.36	225
6	10529.40	-52.27	5.3	11.95	Vertical	-45.62	-13.00	32.62	45
7	12284.30	-53.68	5.5	13.55	Vertical	-45.63	-13.00	32.63	0
8	14039.20	-49.93	6.3	13.75	Vertical	-42.48	-13.00	29.48	225
9	15794.10	-54.42	6.7	13.85	Vertical	-47.27	-13.00	34.27	45
10	17549.00	-51.72	6.8	14.25	Vertical	-44.27	-13.00	31.27	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.									

NB-IoT Band 12 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1398.20	-61.41	2.00	10.15	Vertical	-55.41	-13.00	42.41	135
3	2097.30	-61.23	2.50	11.35	Vertical	-54.53	-13.00	41.53	45
4	2796.40	-60.07	4.20	10.85	Vertical	-55.57	-13.00	42.57	225
5	3495.50	-62.11	5.20	11.35	Vertical	-58.11	-13.00	45.11	0
6	4194.60	-61.26	5.50	11.95	Vertical	-56.96	-13.00	43.96	90
7	4893.70	-61.23	5.70	13.55	Vertical	-55.53	-13.00	42.53	135
8	5592.80	-59.85	6.30	13.75	Vertical	-54.55	-13.00	41.55	225
9	6291.90	-59.56	6.80	13.85	Vertical	-54.66	-13.00	41.66	0
10	6991.00	-60.56	6.90	14.25	Vertical	-55.36	-13.00	42.36	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.									

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NB-IoT Band 12 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-66.26	2.00	10.75	Vertical	-59.66	-13.00	46.66	270
3	2122.50	-63.07	2.51	11.05	Vertical	-56.68	-13.00	43.68	0
4	2830.00	-60.06	4.20	11.15	Vertical	-55.26	-13.00	42.26	315
5	3525.50	-61.48	5.20	11.15	Vertical	-57.68	-13.00	44.68	25
6	4230.60	-61.16	5.50	11.95	Vertical	-56.86	-13.00	43.86	0
7	4935.70	-60.92	5.70	13.55	Vertical	-55.22	-13.00	42.22	0
8	5640.80	-59.37	6.30	13.75	Vertical	-54.07	-13.00	41.07	135
9	6345.90	-57.58	6.80	13.85	Vertical	-52.68	-13.00	39.68	25
10	7051.00	-56.19	6.90	14.25	Vertical	-50.99	-13.00	37.99	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 Vertical position.									

NB-IoT Band 12 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1431.80	-63.32	2.00	10.15	Vertical	-57.32	-13.00	44.32	180
3	2147.70	-57.62	2.51	11.05	Vertical	-51.23	-13.00	38.23	45
4	2863.60	-58.68	4.20	11.15	Vertical	-53.88	-13.00	40.88	90
5	3579.50	-61.39	5.20	11.15	Vertical	-57.59	-13.00	44.59	0
6	4295.40	-61.00	5.50	11.95	Vertical	-56.70	-13.00	43.70	90
7	5011.30	-61.08	5.70	13.55	Vertical	-55.38	-13.00	42.38	0
8	5727.20	-59.86	6.30	13.75	Vertical	-54.56	-13.00	41.56	135
9	6443.10	-59.07	6.80	13.85	Vertical	-54.17	-13.00	41.17	135
10	7159.00	-55.84	6.90	14.25	Vertical	-50.64	-13.00	37.64	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.									

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NB-IoT Band 13 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1554.20	-66.64	2.00	10.15	Vertical	-60.64	-13.00	47.64	225
3	2331.30	-54.08	2.50	11.35	Vertical	-47.38	-13.00	34.38	45
4	3108.40	-55.68	4.20	10.85	Vertical	-51.18	-13.00	38.18	225
5	3885.50	-59.85	5.20	11.35	Vertical	-55.85	-13.00	42.85	135
6	4662.60	-58.05	5.50	11.95	Vertical	-53.75	-13.00	40.75	45
7	5439.70	-57.87	5.70	13.55	Vertical	-52.17	-13.00	39.17	90
8	6216.80	-58.52	6.30	13.75	Vertical	-53.22	-13.00	40.22	135
9	6993.90	-63.80	6.80	13.85	Vertical	-58.90	-13.00	45.90	45
10	7771.00	-55.04	6.90	14.25	Vertical	-49.84	-13.00	36.84	270
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.									

NB-IoT Band 13 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1564.00	-65.71	2.00	10.75	Vertical	-59.11	-40.00	19.11	135
Harmonic	**Frequency (MHz)**	**SG (dBm)**	**Cable Loss (dB)**	**Gain (dBi)**	**Antenna Polarization**	**ERP Level (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Azimuth (deg)**
3	2346.00	-55.01	2.51	11.05	Vertical	-48.62	-13.00	35.62	180
4	3128.00	-57.23	4.20	11.15	Vertical	-52.43	-13.00	39.43	0
5	3910.00	-59.14	5.20	11.15	Vertical	-55.34	-13.00	42.34	90
6	4692.00	-57.94	5.50	11.95	Vertical	-53.64	-13.00	40.64	315
7	5474.00	-59.42	5.70	13.55	Vertical	-53.72	-13.00	40.72	45
8	6256.00	-59.57	6.30	13.75	Vertical	-54.27	-13.00	41.27	180
9	7038.00	-59.01	6.80	13.85	Vertical	-54.11	-13.00	41.11	0
10	7820.00	-54.78	6.90	14.25	Vertical	-49.58	-13.00	36.58	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 Vertical position.									

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NB-IoT Band 13 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1573.80	-65.12	2.00	10.15	Vertical	-59.12	-40.00	19.12	315
Harmonic	**Frequency (MHz)**	**SG (dBm)**	**Cable Loss (dB)**	**Gain (dBi)**	**Antenna Polarization**	**ERP Level (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Azimuth (deg)**
3	2360.70	-54.17	2.51	11.05	Vertical	-47.78	-13.00	34.78	0
4	3147.60	-58.14	4.20	11.15	Vertical	-53.34	-13.00	40.34	135
5	3934.50	-59.03	5.20	11.15	Vertical	-55.23	-13.00	42.23	225
6	4721.40	-57.83	5.50	11.95	Vertical	-53.53	-13.00	40.53	45
7	5508.30	-57.29	5.70	13.55	Vertical	-51.59	-13.00	38.59	90
8	6295.20	-60.80	6.30	13.75	Vertical	-55.50	-13.00	42.50	135
9	7082.10	-57.94	6.80	13.85	Vertical	-53.04	-13.00	40.04	315
10	7869.00	-55.70	6.90	14.25	Vertical	-50.50	-13.00	37.50	45
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.									

NB-IoT Band 66 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3420.20	-66.84	2.6	10.15	Vertical	-59.29	-13.00	46.29	0
3	5130.30	-64.60	2.4	11.35	Vertical	-55.65	-13.00	42.65	90
4	6840.40	-60.74	4.5	10.85	Vertical	-54.39	-13.00	41.39	135
5	8550.50	-55.89	5.1	11.35	Vertical	-49.64	-13.00	36.64	25
6	10260.60	-53.44	5.3	11.95	Vertical	-46.79	-13.00	33.79	25
7	11970.70	-53.65	5.5	13.55	Vertical	-45.60	-13.00	32.60	135
8	13680.80	-51.39	6.3	13.75	Vertical	-43.94	-13.00	30.94	0
9	15390.90	-53.09	6.7	13.85	Vertical	-45.94	-13.00	32.94	90
10	17101.00	-51.25	6.8	14.25	Vertical	-43.80	-13.00	30.80	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.									

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NB-IoT Band 66 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3510.00	-67.38	2.6	10.75	Vertical	-59.23	-13.00	46.23	0
3	5265.00	-64.67	2.4	11.05	Vertical	-56.02	-13.00	43.02	90
4	7020.00	-59.16	4.5	11.15	Vertical	-52.51	-13.00	39.51	135
5	8775.00	-55.63	5.1	11.35	Vertical	-49.38	-13.00	36.38	25
6	10530.00	-52.96	5.3	11.95	Vertical	-46.31	-13.00	33.31	0
7	12285.00	-55.96	5.5	13.55	Vertical	-47.91	-13.00	34.91	0
8	14040.00	-51.76	6.3	13.75	Vertical	-44.31	-13.00	31.31	25
9	15795.00	-54.81	6.7	13.85	Vertical	-47.66	-13.00	34.66	90
10	17550.00	-51.14	6.8	14.25	Vertical	-43.69	-13.00	30.69	135
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.									

NB-IoT Band 66 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3559.80	-65.72	2.6	10.15	Vertical	-58.17	-13.00	45.17	90
3	5339.70	-64.35	2.4	11.05	Vertical	-55.70	-13.00	42.70	0
4	7119.60	-57.63	4.5	11.15	Vertical	-50.98	-13.00	37.98	25
5	8899.50	-56.20	5.1	11.35	Vertical	-49.95	-13.00	36.95	135
6	10679.40	-52.66	5.3	11.95	Vertical	-46.01	-13.00	33.01	0
7	12459.30	-55.70	5.5	13.55	Vertical	-47.65	-13.00	34.65	135
8	14239.20	-49.78	6.3	13.75	Vertical	-42.33	-13.00	29.33	0
9	16019.10	-55.55	6.7	13.85	Vertical	-48.40	-13.00	35.40	0
10	17799.00	-50.05	6.8	14.25	Vertical	-42.60	-13.00	29.60	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 Vertical position.									

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NB-IoT Band 71 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1326.20	-63.95	2.00	10.15	Vertical	-57.95	-13.00	44.95	0
3	1989.30	-63.77	2.50	11.35	Vertical	-57.07	-13.00	44.07	90
4	2652.40	-60.70	4.20	10.85	Vertical	-56.20	-13.00	43.20	90
5	3315.50	-61.61	5.20	11.35	Vertical	-57.61	-13.00	44.61	0
6	3978.60	-61.95	5.50	11.95	Vertical	-57.65	-13.00	44.65	90
7	4641.70	-59.79	5.70	13.55	Vertical	-54.09	-13.00	41.09	125
8	5304.80	-59.11	6.30	13.75	Vertical	-53.81	-13.00	40.81	125
9	5967.90	-56.57	6.80	13.85	Vertical	-51.67	-13.00	38.67	0
10	6631.00	-58.75	6.90	14.25	Vertical	-53.55	-13.00	40.55	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 Vertical position.									

NB-IoT Band 71 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1361.00	-69.69	2.00	10.75	Vertical	-63.09	-13.00	50.09	90
3	2041.50	-64.60	2.51	11.05	Vertical	-58.21	-13.00	45.21	125
4	2722.00	-60.80	4.20	11.15	Vertical	-56.00	-13.00	43.00	0
5	3402.50	-60.82	5.20	11.15	Vertical	-57.02	-13.00	44.02	90
6	4083.00	-60.99	5.50	11.95	Vertical	-56.69	-13.00	43.69	125
7	4763.50	-59.60	5.70	13.55	Vertical	-53.90	-13.00	40.90	125
8	5444.00	-58.62	6.30	13.75	Vertical	-53.32	-13.00	40.32	90
9	6124.50	-57.01	6.80	13.85	Vertical	-52.11	-13.00	39.11	90
10	6805.00	-58.26	6.90	14.25	Vertical	-53.06	-13.00	40.06	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 Vertical position.									

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NB-IoT Band 71 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1395.80	-67.88	2.00	10.15	Vertical	-61.88	-13.00	48.88	90
3	2093.70	-67.72	2.51	11.05	Vertical	-61.33	-13.00	48.33	0
4	2791.60	-61.42	4.20	11.15	Vertical	-56.62	-13.00	43.62	125
5	3489.50	-60.86	5.20	11.15	Vertical	-57.06	-13.00	44.06	125
6	4187.40	-61.97	5.50	11.95	Vertical	-57.67	-13.00	44.67	90
7	4885.30	-59.54	5.70	13.55	Vertical	-53.84	-13.00	40.84	0
8	5583.20	-58.28	6.30	13.75	Vertical	-52.98	-13.00	39.98	0
9	6281.10	-57.73	6.80	13.85	Vertical	-52.83	-13.00	39.83	90
10	6979.00	-59.88	6.90	14.25	Vertical	-54.68	-13.00	41.68	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.									

NB-IoT Band 85 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1396.20	-62.25	2.00	10.15	Vertical	-56.25	-13.00	43.25	90
3	2094.30	-67.66	2.50	11.35	Vertical	-60.96	-13.00	47.96	125
4	2792.40	-60.89	4.20	10.85	Vertical	-56.39	-13.00	43.39	125
5	3490.50	-61.90	5.20	11.35	Vertical	-57.90	-13.00	44.90	0
6	4188.60	-61.24	5.50	11.95	Vertical	-56.94	-13.00	43.94	0
7	4886.70	-60.55	5.70	13.55	Vertical	-54.85	-13.00	41.85	90
8	5584.80	-57.17	6.30	13.75	Vertical	-51.87	-13.00	38.87	135
9	6282.90	-58.77	6.80	13.85	Vertical	-53.87	-13.00	40.87	90
10	6981.00	-60.14	6.90	14.25	Vertical	-54.94	-13.00	41.94	135
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.									

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NB-IoT Band 85 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.00	-68.63	2.00	10.75	Vertical	-62.03	-13.00	49.03	0
3	2121.00	-66.36	2.51	11.05	Vertical	-59.97	-13.00	46.97	0
4	2828.00	-60.96	4.20	11.15	Vertical	-56.16	-13.00	43.16	90
5	3535.00	-59.03	5.20	11.15	Vertical	-55.23	-13.00	42.23	0
6	4242.00	-58.96	5.50	11.95	Vertical	-54.66	-13.00	41.66	125
7	4949.00	-58.91	5.70	13.55	Vertical	-53.21	-13.00	40.21	90
8	5656.00	-56.84	6.30	13.75	Vertical	-51.54	-13.00	38.54	90
9	6363.00	-56.25	6.80	13.85	Vertical	-51.35	-13.00	38.35	125
10	7070.00	-56.42	6.90	14.25	Vertical	-51.22	-13.00	38.22	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.									

NB-IoT Band 85 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1431.80	-65.39	2.00	10.15	Vertical	-59.39	-13.00	46.39	125
3	2147.70	-61.00	2.51	11.05	Vertical	-54.61	-13.00	41.61	0
4	2863.60	-60.32	4.20	11.15	Vertical	-55.52	-13.00	42.52	125
5	3579.50	-60.96	5.20	11.15	Vertical	-57.16	-13.00	44.16	0
6	4295.40	-60.74	5.50	11.95	Vertical	-56.44	-13.00	43.44	90
7	5011.30	-59.71	5.70	13.55	Vertical	-54.01	-13.00	41.01	125
8	5727.20	-57.04	6.30	13.75	Vertical	-51.74	-13.00	38.74	90
9	6443.10	-59.19	6.80	13.85	Vertical	-54.29	-13.00	41.29	0
10	7159.00	-57.16	6.90	14.25	Vertical	-51.96	-13.00	38.96	125
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.									

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7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Signal Analyzer	R&S	FSV40	101297	2021-12-12	2022-12-11
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019-09-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/

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

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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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