

November 21, 2023

Trackonomy Systems

214 Devcon Drive
San Jose, CA 95112

Dear Saurabh Sanghai,

Enclosed is the RF Wireless test report for compliance testing of the Trackonomy Systems, Multifunctional IoT Platform Sensor as tested to the requirements of the

FCC Part §2.1053, §22.917(a), §24.238(a), §27.53(a)(4), §27.53(c)(2), §27.53(f), §27.53(g), § 90.691
RSS-GEN Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021)
RSS-130 Issue 2 February 2019
RSS-132 Issue 4, January 2023
RSS-133 Issue 6 January 2018
RSS-139 Issue 4 September 2022

Sincerely yours,

Documentation Department
Eurofins Electrical and Electronic Testing NA, Inc.FCC Test Site(s) Reg #:US1123
IC Test Site(s) Reg. #: 2043C

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FCC/ ISED Test Report

Applicant name: Trackonomy Systems

Manufacturer name: Trackonomy Systems

Product: Multifunctional IoT Platform Sensor

Report: WIR128736-Track_FCC_ISED_LTE_CAT-M_NB-IOT

Applicant Address:

**214 Devcon Drive
San Jose, CA 95112**

Manufacturer Address:

**214 Devcon Drive
San Jose, CA 95112**

Prepared By:
Eurofins Electrical and Electronic Testing NA, Inc.
3162 Belick St.
Santa Clara CA, 95054

FCC/ ISED Test Report

Applicant name: Trackonomy Systems

Product: Multifunctional IoT Platform Sensor

Standard

47 CFR Part 2, 22, 24, 27, 90

RSS-GEN Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021)

RSS-130 Issue 2 February 2019

RSS-132 Issue 4, January 2023

RSS-133 Issue 6, January 2018

RSS-139 Issue 4 September 2022

Richard Dollente

Richard Dollente

Test Engineer, Wireless Laboratory

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of FCC and ISED Rules under normal use and maintenance.

Gary Chou

Gary Chou

Wireless Engineering Manager, Wireless Laboratory

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	November 21, 2023	Initial Issue.

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I. Executive Summary

A. Purpose of Test

An WIRELESS evaluation was performed to determine compliance of the Trackonomy Systems., Multifunctional IoT Platform Sensor / FBO-2003, with the requirements of 47 CFR FCC CFR Part 2, 22, 24, 27, 90 RSS-GEN Issue 5 April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021), RSS-130 Issue 2 February 2019, RSS-132 Issue 4 January 31, 2023, RSS-133 Issue 6 January 2018, RSS-139 Issue 4 September 2022. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with PVG-04 technical requirements.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with 47 CFR FCC CFR Part 2, 22, 24, 27, RSS-Gen Issue 5 2018, RSS-130 Issue 2 February 2019, RSS-132 Issue 4 January 31 2023, RSS-133 Issue 6 January 2018, RSS-139 Issue 4 September 2022. All tests were conducted using measurement procedure.

FCC ISSED Clause	Description	Compliance
§2.1053 §22.917(a) §24.238 §27.53(l)(4)(6) § 90.691	Radiated Spurious Emissions	Compliant
RSS-132§5.5 RSS-133§6.5 RSS-130§4.6 RSS-139§6.6	Radiated Spurious Emissions	Compliant

Note: Refer to RF module Report FCC ID : 2ANPO00NRF9160, RF module report, ISSED ID : 24529-NRF9160

Rationale:

Per KDB 996369 D04 “Modular Transmitter Integration Guide – Guidance for Host Product Manufacturers” only spot checks are reported in this filing.

Per ANSI C63.26: 2015 section 5.1.2.2, the results include worst case modulation only.

II. Equipment Information

A. Equipment Overview and Test Configuration

Product:	Multifunctional IoT Platform Sensor	
Brand:	Trackonomy	
EUT Specifications:	Input Power:	3 Vdc/ Battery powered
	Type of Modulations:	QPSK, 16QAM, 8PSK, GMSK
	Technology:	LTE CAT-M / NB-IOT
	Operating Frequency :	Band 2: 1850 MHz ~ 1910 MHz Band 4: 1710 MHz ~ 1755 MHz Band 5: 824 MHz ~ 849 MHz Band 12: 699 MHz ~ 716 MHz Band 13: 777 MHz ~ 787 MHz Band 17: 704 MHz ~ 716 MHz Band 25: 1850 MHz ~ 1915 MHz Band 26 : 814 MHz ~ 849 MHz Band 66: 1710 MHz ~ 1780 MHz
	Model:	FBO-2003
	FCC ID:	2AXA8-FBO-2003
	ISED ID:	27299-FBO2003
	Antenna Type:	Flexible PCB Antenna
	Antenna Manufacturer/ Model	TAOGLAS/ FXP14.24.0100B (Or similar antenna type with equivalent or lower gain)
	Antenna Gain:	850 MHz: 2 dBi 900 MHz: 1.5 dBi 1700 MHz: 3 dBi 1800 MHz: 2.5 dBi 1900 MHz: 2 dBi 2100 MHz: 2.5 dBi
	Antenna Port:	IPEX
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Richard Dollente	
Evaluated by:	November 13, 2023	
Issue Date(s):	November 21, 2023	

Note:

The FBO-2003 is available with the option of mounting lugs to attach the device using mounting fixtures. The mounting lugs do not impact the RF performance of the device in any way. The data in this report covers the scope for the device in both configurations.

B. General Description of Applied Standards

References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

- FCC 47 CFR Part 2
- FCC 47 CFR Part 22(H)
- FCC 47 CFR Part 24(E)
- FCC 47 CFR Part 27
- FCC 47 CFR Part 90
- RSS-GEN Issue 5, April 2018 + Amendment 1 (March 2019) + Amendment 2 (February 2021)
- RSS-130 Issue 2, February 2019
- RSS-132 Issue 4, January 31, 2023
- RSS-133 Issue 6, January 2018
- ANSI/TIA/EIA-603-E 2016
- ANSI 63.26 2015

C. Test Site

All testing was performed at Eurofins Electrical and Electronic Testing NA, Inc., 3162 Belick St. Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Eurofins Electrical and Electronic Testing NA, Inc. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

Eurofins Electrical and Electronic Testing NA, Inc. is part of the Eurofins Electrical & Electronics (E&E) global compliance network.

FCC Test Site(s) Reg #:US1123

IC Test Site(s) Reg. #: 2043C

D. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
RF Frequencies	±4.52 Hz	2	95%
RF Power Conducted Emissions	±2.32 dB	2	95%
RF Power Conducted Spurious Emissions	±2.25 dB	2	95%
RF Power Radiated Emissions	±3.01 dB	2	95%

Uncertainty Calculations Summary

E. Modifications**a) Modifications to EUT**

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

F. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to Actineon, Inc. upon completion of testing.

III. Electromagnetic Compatibility Criteria for Intentional Radiators

Radiated Emission Measurement

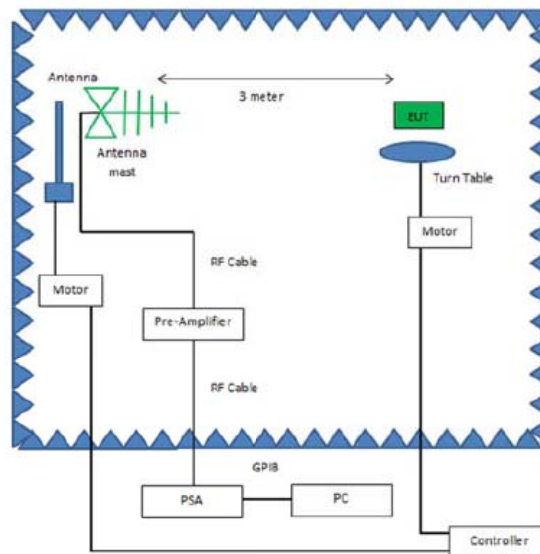
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

Test Procedures:

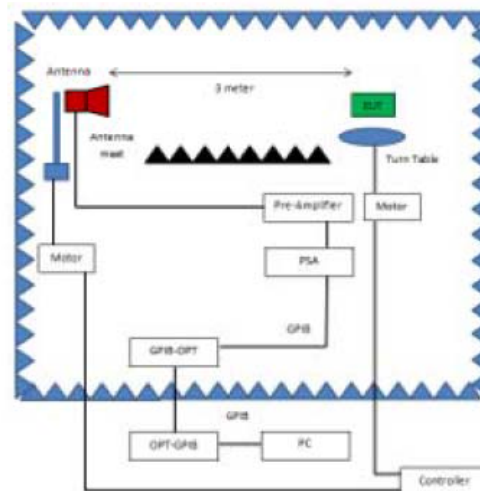
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi.}$

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

Deviation from Test Standard
No deviation.



Radiated Emissions, Below 1GHz, Test Setup



Radiated Emissions, Above 1GHz, Test Setup

Test Engineer: Richard Dollente

Test Date(s): November 13, 2023

Note: The test data only shows worst case result

Test Result:
LTE CAT-M Band 2 Bandwidth 10 MHz

Frequency Range	30 MHz ~ 1GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
202.58	V	-75.05	-13	-47.77
45.85	V	-63.08	-13	-43.27
91.62	V	-76.16	-13	-43.55
91.62	H	-75.82	-13	-50.53
109.94	H	-75.35	-13	-48.18
236.68	H	-71.58	-13	-53.42

LTE CAT-M Band 2 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3700.375	Vertical	-55.27	-13	-42.27
3700.375	Horizontal	-54.04	-13	-41.04
5548.875	Vertical	-55.51	-13	-42.51
5548.875	Horizontal	-54.48	-13	-41.48

LTE CAT-M Band 2 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3700.375	Vertical	-54.55	-13	-41.55
3700.375	Horizontal	-54.9	-13	-41.9
5548.875	Vertical	-55.05	-13	-42.05
5548.875	Horizontal	-54.23	-13	-41.23

LTE CAT-M Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3698.25	V	-53.1	-13	-40.1
3700.375	V	-54.41	-13	-41.41
5551	H	-55.76	-13	-42.76
5551	H	-53.63	-13	-40.63

LTE CAT-M Band 2 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3698.25	Vertical	-52.8	-13	-39.8
3698.25	Horizontal	-52.77	-13	-39.77
5546.75	Horizontal	-54.53	-13	-41.53
5548.875	Vertical	-54.06	-13	-41.06

LTE CAT-M Band 2 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3696.125	Vertical	-53.91	-13	-40.91
3702.5	Horizontal	-53.06	-13	-40.06
5548.875	Vertical	-54	-13	-41
5553.125	Horizontal	-54.31	-13	-41.31

LTE CAT-M Band 2 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3694	Vertical	-53.02	-13	-40.02
3696.125	Horizontal	-53.7	-13	-40.7
5548.875	Vertical	-53.74	-13	-40.74
5551	Horizontal	-54.13	-13	-41.13

LTE CAT-M Band 2 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3760.375	Vertical	-55.87	-13	-42.87
3760.375	Horizontal	-55.85	-13	-42.85
5641	Vertical	-55.66	-13	-42.66
5641	Horizontal	-55.65	-13	-42.65

LTE CAT-M Band 2 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3760.375	Vertical	-56.46	-13	-43.46
3760.375	Horizontal	-55.12	-13	-42.12
5641	Vertical	-57.65	-13	-44.65
5641	Horizontal	-55.01	-13	-42.01

LTE CAT-M Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3760.375	V	-55.14	-13	-42.14
3758.25	V	-53.47	-13	-40.47
5641	H	-55.02	-13	-42.02
5638.875	H	-54.83	-13	-41.83

LTE CAT-M Band 2 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3758.25	Vertical	-57.36	-13	-44.36
3756.125	Horizontal	-54.28	-13	-41.28
5636.75	Horizontal	-56.4	-13	-43.4
5641	Vertical	-55.27	-13	-42.27

LTE CAT-M Band 2 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3758.25	Vertical	-55.51	-13	-42.51
3756.125	Horizontal	-54.7	-13	-41.7
5645.25	Vertical	-56.49	-13	-43.49
5645.25	Horizontal	-54	-13	-41

LTE CAT-M Band 2 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3756.125	Vertical	-54.71	-13	-41.71
3756.125	Horizontal	-54.12	-13	-41.12
5645.25	Vertical	-54.02	-13	-41.02
5645.25	Horizontal	-54	-13	-41

LTE CAT-M Band 2 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3700.375	Vertical	-55.29	-13	-42.29
3700.375	Horizontal	-54.05	-13	-41.05
5578.875	Vertical	-55.39	-13	-42.39
5578.875	Horizontal	-54.62	-13	-41.62

LTE CAT-M Band 2 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3700.375	Vertical	-54.57	-13	-41.57
3700.375	Horizontal	-54.91	-13	-41.91
5578.875	Vertical	-54.93	-13	-41.93
5578.875	Horizontal	-54.37	-13	-41.37

LTE CAT-M Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3698.25	V	-53.12	-13	-40.12
3700.375	V	-54.42	-13	-41.42
5581	H	-55.64	-13	-42.64
5581	H	-53.77	-13	-40.77

LTE CAT-M Band 2 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3698.25	Vertical	-52.82	-13	-39.82
3698.25	Horizontal	-52.78	-13	-39.78
5576.75	Horizontal	-54.41	-13	-41.41
5578.875	Vertical	-54.2	-13	-41.2

LTE CAT-M Band 2 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3696.125	Vertical	-53.93	-13	-40.93
3702.5	Horizontal	-53.07	-13	-40.07
5578.875	Vertical	-53.88	-13	-40.88
5583.125	Horizontal	-54.45	-13	-41.45

LTE CAT-M Band 2 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3694	Vertical	-53.04	-13	-40.04
3696.125	Horizontal	-53.71	-13	-40.71
5578.875	Vertical	-53.62	-13	-40.62
5581	Horizontal	-54.27	-13	-41.27

LTE CAT-M Band 4 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3420	Vertical	-54.5	-13	-41.5
3420	Horizontal	-53.61	-13	-40.61
5129.375	Vertical	-52.71	-13	-39.71
5129.375	Horizontal	-52.48	-13	-39.48

LTE CAT-M Band 4 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3420	Vertical	-54.81	-13	-41.81
3420	Horizontal	-55	-13	-42
5131.5	Vertical	-51.12	-13	-38.12
5131.5	Horizontal	-53.14	-13	-40.14

LTE CAT-M Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3417.875	V	-54.98	-13	-41.98
3417.875	V	-54.63	-13	-41.63
5131.5	H	-53.14	-13	-40.14
5129.375	H	-52.61	-13	-39.61

LTE CAT-M Band 4 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3417.875	Vertical	-54.89	-13	-41.89
3415.75	Horizontal	-53.03	-13	-40.03
5133.625	Horizontal	-53.85	-13	-40.85
5133.625	Vertical	-53.12	-13	-40.12

LTE CAT-M Band 4 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3415.75	Vertical	-54.55	-13	-41.55
3420	Horizontal	-53.12	-13	-40.12
5131.5	Vertical	-52.1	-13	-39.1
5131.5	Horizontal	-53.07	-13	-40.07

LTE CAT-M Band 4 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3415.75	Vertical	-54.39	-13	-41.39
3426.375	Horizontal	-54.23	-13	-41.23
5133.625	Vertical	-50.85	-13	-37.85
5133.625	Horizontal	-50.73	-13	-37.73

LTE CAT-M Band 4 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3465	Vertical	-56.43	-13	-43.43
3465	Horizontal	-56.42	-13	-43.42
5196.875	Vertical	-55.41	-13	-42.41
5196.875	Horizontal	-55.13	-13	-42.13

LTE CAT-M Band 4 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3465	Vertical	-56.59	-13	-43.59
3465	Horizontal	-56.58	-13	-43.58
5196.875	Vertical	-56.28	-13	-43.28
5196.875	Horizontal	-54.29	-13	-41.29

LTE CAT-M Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3467.125	Vertical	-55.12	-13	-42.12
3467.125	Horizontal	-55.11	-13	-42.11
5196.875	Vertical	-54.27	-13	-41.27
5196.875	Horizontal	-54.29	-13	-41.29

LTE CAT-M Band 4 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3460.75	Vertical	-56.89	-13	-43.89
3465	Horizontal	-56.05	-13	-43.05
5194.75	Vertical	-55.84	-13	-42.84
5199	Horizontal	-55.73	-13	-42.73

LTE CAT-M Band 4 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3467.125	Vertical	-56.01	-13	-43.01
3460.75	Horizontal	-55.85	-13	-42.85
5203.25	Vertical	-55.08	-13	-42.08
5201.125	Horizontal	-53.85	-13	-40.85

LTE CAT-M Band 4 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3473.5	V	-56.83	-13	-43.83
3462.875	V	-53.8	-13	-40.8
5199	H	-56.44	-13	-43.44
5205.375	H	-55.55	-13	-42.55

LTE CAT-M Band 4 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3510	Vertical	-54.52	-13	-41.52
3510	Horizontal	-53.62	-13	-40.62
5264.375	Vertical	-52.59	-13	-39.59
5264.375	Horizontal	-52.62	-13	-39.62

LTE CAT-M Band 4 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3507.875	V	-55	-13	-42
3507.875	V	-54.64	-13	-41.64
5266.5	H	-53.02	-13	-40.02
5264.375	H	-52.75	-13	-39.75

LTE CAT-M Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3505.75	Vertical	-54.57	-13	-41.57
3510	Horizontal	-53.13	-13	-40.13
5266.5	Vertical	-51.98	-13	-38.98
5266.5	Horizontal	-53.21	-13	-40.21

LTE CAT-M Band 4 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3507.875	Vertical	-54.91	-13	-41.91
3505.75	Horizontal	-53.04	-13	-40.04
5268.625	Horizontal	-53.73	-13	-40.73
5268.625	Vertical	-53.26	-13	-40.26

LTE CAT-M Band 4 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3505.75	Vertical	-54.57	-13	-41.57
3510	Horizontal	-53.13	-13	-40.13
5266.5	Vertical	-51.98	-13	-38.98
5266.5	Horizontal	-53.21	-13	-40.21

LTE CAT-M Band 4 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3505.75	Vertical	-54.41	-13	-41.41
3516.375	Horizontal	-54.24	-13	-41.24
5268.625	Vertical	-50.73	-13	-37.73
5268.625	Horizontal	-50.87	-13	-37.87

LTE CAT-M Band 5 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1646.5	Vertical	-55.36	-13	-42.36
1646.5	Horizontal	-55.39	-13	-42.39
2471.25	Vertical	-55.6	-13	-42.6
2471.25	Horizontal	-55.41	-13	-42.41

LTE CAT-M Band 5 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1648.625	Vertical	-56.51	-13	-43.51
1648.625	Horizontal	-56.55	-13	-43.55
2473.375	Vertical	-54.65	-13	-41.65
2471.25	Horizontal	-54.57	-13	-41.57

LTE CAT-M Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1646.5	Vertical	-56.48	-13	-43.48
1646.5	Horizontal	-57.37	-13	-44.37
2471.25	Vertical	-54.86	-13	-41.86
2471.25	Horizontal	-54.2	-13	-41.2

LTE CAT-M Band 5 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1673.625	Vertical	35.571	-13	48.571
1673.625	Horizontal	36.663	-13	49.663
2508.75	Vertical	38.745	-13	51.745
2510.875	Horizontal	38.787	-13	51.787

LTE CAT-M Band 5 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1674.50	Vertical	-59.78	-13	-46.78
1674.50	Horizontal	-58.69	-13	-45.69
2511.00	Vertical	-56.6	-13	-43.6
2511.00	Horizontal	-56.56	-13	-43.56

LTE CAT-M Band 5 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1673.625	Vertical	-60.52	-13	-47.52
1673.625	Horizontal	-60.2	-13	-47.2
2508.75	Vertical	-56.25	-13	-43.25
2508.75	Horizontal	-56.28	-13	-43.28

LTE CAT-M Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1673.625	Vertical	-60.65	-13	-47.65
1673.625	Horizontal	-59.83	-13	-46.83
2508.75	Vertical	-57.33	-13	-44.33
2508.75	Horizontal	-57.04	-13	-44.04

LTE CAT-M Band 5 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1675.75	Vertical	-60.51	-13	-47.51
1675.75	Horizontal	-59.44	-13	-46.44
2504.5	Vertical	-56.3	-13	-43.3
2506.625	Horizontal	-57.78	-13	-44.78

LTE CAT-M Band 5 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1696.5	Vertical	-55.24	-13	-42.24
1696.5	Horizontal	-55.36	-13	-42.36
2573.25	Vertical	-55.62	-13	-42.62
2573.25	Horizontal	-55.33	-13	-42.33

LTE CAT-M Band 5 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1698.625	Vertical	-56.39	-13	-43.39
1698.625	Horizontal	-56.52	-13	-43.52
2575.375	Vertical	-54.67	-13	-41.67
2573.25	Horizontal	-54.49	-13	-41.49

LTE CAT-M Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1696.5	Vertical	-56.36	-13	-43.36
1696.5	Horizontal	-57.34	-13	-44.34
2573.25	Vertical	-54.88	-13	-41.88
2573.25	Horizontal	-54.12	-13	-41.12

LTE CAT-M Band 5 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1694.375	Vertical	-57.41	-13	-44.41
1700.75	Horizontal	-56.95	-13	-43.95
2577.5	Vertical	-54.95	-13	-41.95
2571.125	Horizontal	-54.69	-13	-41.69

LTE CAT-M Band 12 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1397.375	Vertical	-59.02	-13	-46.02
1397.375	Horizontal	-58.37	-13	-45.37
2097	Vertical	-54.6	-13	-41.6
2097	Horizontal	-54.63	-13	-41.63

LTE CAT-M Band 12 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1399.5	Vertical	-57.89	-13	-44.89
1399.5	Horizontal	-55.83	-13	-42.83
2097	Vertical	-53.57	-13	-40.57
2097	Horizontal	-55.2	-13	-42.2

LTE CAT-M Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1414.375	Vertical	-57.7	-13	-44.7
1414.375	Horizontal	-57.55	-13	-44.55
2122	Vertical	-55.03	-13	-42.03
2122	Horizontal	-54.86	-13	-41.86

LTE CAT-M Band 12 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1414.375	Vertical	-57.42	-13	-44.42
1414.375	Horizontal	-57.52	-13	-44.52
2122	Vertical	-55.04	-13	-42.04
2122	Horizontal	-54.1	-13	-41.1

LTE CAT-M Band 12 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1414.375	Vertical	-55.81	-13	-42.814787
1414.375	Horizontal	-59.93	-13	-46.934787
2122	Vertical	-56.63	-13	-43.634787
2122	Horizontal	-56.51	-13	-43.512787

LTE CAT-M Band 12 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1414.375	Vertical	-60.66	-13	-47.66
1414.375	Horizontal	-60.59	-13	-47.59
2122	Vertical	-57.6	-13	-44.6
2122	Horizontal	-57.63	-13	-44.63

LTE CAT-M Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1416.5	Vertical	-59.77	-13	-46.77
1416.5	Horizontal	-59.7	-13	-46.7
2122	Vertical	-56.6	-13	-43.6
2122	Horizontal	-56.63	-13	-43.63

LTE CAT-M Band 12 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1410.125	Vertical	-61.25	-13	-48.25
1410.125	Horizontal	-60.06	-13	-47.06
2117.75	Vertical	-58.59	-13	-45.59
2126.25	Horizontal	-56.6	-13	-43.6

LTE CAT-M Band 12 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1431.375	Vertical	-58.9	-13	-45.9
1431.375	Horizontal	-58.34	-13	-45.34
2147.5	Vertical	-54.62	-13	-41.62
2147.5	Horizontal	-54.55	-13	-41.55

LTE CAT-M Band 12 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1433.5	Vertical	-57.77	-13	-44.77
1433.5	Horizontal	-55.8	-13	-42.8
2147.5	Vertical	-53.59	-13	-40.59
2147.5	Horizontal	-55.12	-13	-42.12

LTE CAT-M Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1433.5	Vertical	-57.58	-13	-44.58
1433.5	Horizontal	-57.52	-13	-44.52
2147.5	Vertical	-55.05	-13	-42.05
2149.625	Horizontal	-54.78	-13	-41.78

LTE CAT-M Band 12 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1427.125	Vertical	-57.3	-13	-44.3
1427.125	Horizontal	-57.49	-13	-44.49
2149.625	Vertical	-55.06	-13	-42.06
2143.25	Horizontal	-54.02	-13	-41.02

LTE CAT-M Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1553.125	Vertical	-58.38	-13	-45.38
1555.25	Horizontal	-58.32	-13	-45.32
2332.25	Vertical	-54.12	-13	-41.12
2332.25	Horizontal	-54.38	-13	-41.38

LTE CAT-M Band 13 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1557.375	Vertical	-57.24	-13	-44.24
1557.375	Horizontal	-57.18	-13	-44.18
2332.25	Vertical	-53.95	-13	-40.95
2332.25	Horizontal	-53.82	-13	-40.82

LTE CAT-M Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1565.25	Vertical	-61.52	-13	-48.52
1565.25	Horizontal	-61.51	-13	-48.51
2345.125	Vertical	-58.41	-13	-45.41
2347.25	Horizontal	-59.99	-13	-46.99

LTE CAT-M Band 13 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1565.25	Vertical	-61.52	-13	-44.22
1565.25	Horizontal	-60.98	-13	-44.16
2343	Vertical	-58.43	-13	-40.93
2345.125	Horizontal	-56.53	-13	-40.8

LTE CAT-M Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1573.125	Vertical	-58.26	-13	-45.26
1575.25	Horizontal	-58.29	-13	-45.29
2362.25	Vertical	-54.14	-13	-41.14
2362.25	Horizontal	-54.3	-13	-41.3

LTE CAT-M Band 13 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1577.375	Vertical	-57.12	-13	-44.12
1577.375	Horizontal	-57.15	-13	-44.15
2362.25	Vertical	-53.97	-13	-40.97
2362.25	Horizontal	-53.74	-13	-40.74

LTE CAT-M Band 25 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3699.625	Vertical	-54.25	-13	-41.25
3699.625	Horizontal	-54.03	-13	-41.03
5522.88	Vertical	-52.61	-13	-39.61
5522.88	Horizontal	-51.66	-13	-38.66

LTE CAT-M Band 25 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3699.625	Vertical	-54.47	-13	-41.47
3699.625	Horizontal	-53.74	-13	-40.74
5520.75	Vertical	-51.35	-13	-38.35
5520.75	Horizontal	-51.33	-13	-38.33

LTE CAT-M Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3699.625	Vertical	-54.47	-13	-41.47
3699.625	Horizontal	-53.74	-13	-40.74
5522.88	Vertical	-54.09	-13	-41.09
5522.88	Horizontal	-53.76	-13	-40.76

LTE CAT-M Band 25 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3699.625	Vertical	-51.66	-13	-38.66
3699.625	Horizontal	-51.64	-13	-38.64
5522.88	Vertical	-51.81	-13	-38.81
5518.63	Horizontal	-52.55	-13	-39.55

LTE CAT-M Band 25 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3710.25	Vertical	-51.41	-13	-38.41
3708.125	Horizontal	-52.33	-13	-39.33
5529.25	Vertical	-52.62	-13	-39.62
5529.25	Horizontal	-51.92	-13	-38.92

LTE CAT-M Band 25 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3706	Vertical	-52.54	-13	-39.54
3697.5	Horizontal	-51.82	-13	-38.82
5522.88	Vertical	-53.2	-13	-40.2
5518.63	Horizontal	-52.87	-13	-39.87

LTE CAT-M Band 25 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3764.625	Vertical	-56.4	-13	-43.4
3764.625	Horizontal	-55.09	-13	-42.09
5647.375	Vertical	-57.55	-13	-44.55
5647.375	Horizontal	-56	-13	-43

LTE CAT-M Band 25 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3764.625	Vertical	-55.11	-13	-42.11
3764.625	Horizontal	-56.01	-13	-43.01
5647.375	Vertical	-56.03	-13	-43.03
5647.375	Horizontal	-54.98	-13	-41.98

LTE CAT-M Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3766.75	Vertical	-55.59	-13	-42.59
3766.75	Horizontal	-54.2	-13	-41.2
5645.25	Vertical	-56.01	-13	-43.01
5645.25	Horizontal	-55.99	-13	-42.99

LTE CAT-M Band 25 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3766.75	Vertical	-56.16	-13	-43.16
3764.625	Horizontal	-53.72	-13	-40.72
5645.25	Vertical	-57	-13	-44
5643.125	Horizontal	-54.8	-13	-41.8

LTE CAT-M Band 25 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3760.375	Vertical	-55.43	-13	-42.43
3766.75	Horizontal	-54.24	-13	-41.24
5647.375	Vertical	-56.38	-13	-43.38
5649.5	Horizontal	-54.77	-13	-41.77

LTE CAT-M Band 25 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3758.25	Vertical	-55.43	-13	-42.43
3768.875	Horizontal	-54.45	-13	-41.45
5641	Vertical	-54.51	-13	-41.51
5641	Horizontal	-55.53	-13	-42.53

LTE CAT-M Band 25 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3829.625	Vertical	-54.13	-13	-41.13
3829.625	Horizontal	-54	-13	-41
5717.875	Vertical	-52.63	-13	-39.63
5717.875	Horizontal	-51.58	-13	-38.58

LTE CAT-M Band 25 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3829.625	Vertical	-54.35	-13	-41.35
3829.625	Horizontal	-53.71	-13	-40.71
5715.75	Vertical	-51.37	-13	-38.37
5715.75	Horizontal	-51.25	-13	-38.25

LTE CAT-M Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3829.625	Vertical	-54.35	-13	-41.35
3829.625	Horizontal	-53.71	-13	-40.71
5717.875	Vertical	-54.11	-13	-41.11
5717.875	Horizontal	-53.68	-13	-40.68

LTE CAT-M Band 25 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3829.625	Vertical	-51.54	-13	-38.54
3829.625	Horizontal	-51.61	-13	-38.61
5717.875	Vertical	-51.83	-13	-38.83
5713.625	Horizontal	-52.47	-13	-39.47

LTE CAT-M Band 25 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3840.25	Vertical	-51.29	-13	-38.29
3838.125	Horizontal	-52.3	-13	-39.3
5724.25	Vertical	-52.64	-13	-39.64
5724.25	Horizontal	-51.84	-13	-38.84

LTE CAT-M Band 25 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3836	Vertical	-52.42	-13	-39.42
3827.5	Horizontal	-51.79	-13	-38.79
5717.875	Vertical	-53.22	-13	-40.22
5713.625	Horizontal	-52.79	-13	-39.79