

FCC Measurement/Technical Report on

SARA-R422M8S

SARA-R422S

SARA-R422

FCC ID: XPYUBX20VA01

IC: 8595A-UBX20VA01

Test Report Reference: MDE_UBLOX_2005_FCC_01_REV04

Test Laboratory:

7layers GmbH
Borsigstrasse 11
40880 Ratingen
Germany



Deutsche
Akkreditierungsstelle
D-PL-12140-01-01
D-PL-12140-01-02
D-PL-12140-01-03

Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

7layers GmbH

Borsigstraße 11
40880 Ratingen, Germany
T +49 (0) 2102 749 0
F +49 (0) 2102 749 350

Geschäftsführer/
Managing Directors:
Frank Spiller
Bernhard Retka
Alexandre Norré-Oudard

Registergericht/registered:
Düsseldorf HRB 75554
USt-Id.-Nr./VAT-No. DE203159652
Steuer-Nr./TAX-No. 147/5869/0385

a Bureau Veritas
Group Company

www.7layers.com

Table of Contents

1	Applied Standards and Test Summary	4
1.1	Applied Standards	4
1.2	FCC-IC Correlation Table	6
1.3	Measurement Summary	10
2	Revision History / Signatures	41
3	Administrative Data	42
3.1	Testing Laboratory	42
3.2	Project Data	42
3.3	Applicant Data	42
3.4	Manufacturer Data	42
4	Test object Data	43
4.1	General EUT Description	43
4.2	EUT Main components	43
4.3	Ancillary Equipment	45
4.4	Auxiliary Equipment	45
4.5	EUT Setups	45
4.6	Operating Modes / Test Channels	46
4.7	Product labelling	48
5	Test Results	49
5.1	RF Output power	49
5.2	Frequency stability	56
5.3	Spurious emissions at antenna terminals	63
5.4	Field strength of spurious radiation	69
5.5	Emission and occupied bandwidth	79
5.6	Band edge compliance	85
5.7	Peak-average-ratio	90
5.8	RF Output power	94
5.9	Frequency stability	101
5.10	Spurious emissions at antenna terminal	107
5.11	Field strength of spurious radiation	113
5.12	Emission and occupied bandwidth	124
5.13	Band edge compliance	130
5.14	Peak to Average Ratio	136
5.15	RF Output Power	140
5.16	Frequency stability	154
5.17	Spurious emissions at antenna terminals	168
5.18	Field strength of spurious radiation	182
5.19	Emission and occupied bandwidth	206
5.20	Band edge compliance	216
5.21	Peak to Average Ratio	229
5.22	RF Output Power	239

5.23	Spurious Emissions at antenna terminals	242
5.24	Field strength of spurious radiation	245
5.25	Emission and Occupied Bandwidth	251
5.26	Band Edge	254
5.27	Peak to Average Ratio	257
6	Test Equipment	259
7	Antenna Factors, Cable Loss and Sample Calculations	263
7.1	LISN R&S ESH3-Z5 (150 kHz – 30 MHz)	263
7.2	Antenna R&S HFH2-Z2 (9 kHz – 30 MHz)	264
7.3	Antenna R&S HL562 (30 MHz – 1 GHz)	265
7.4	Antenna R&S HF907 (1 GHz – 18 GHz)	266
7.5	Antenna EMCO 3160-09 (18 GHz – 26.5 GHz)	267
7.6	Antenna EMCO 3160-10 (26.5 GHz – 40 GHz)	268
8	Measurement Uncertainties	269
9	Photo Report	270

1 APPLIED STANDARDS AND TEST SUMMARY

1.1 APPLIED STANDARDS

Type of Authorization

Certification for a cellular mobile device.

Applicable FCC Rules

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47 CFR Ch.1 Parts 2 and 22, (10-1-19 Edition). The following subparts are applicable to the results in this test report.

Part 2, Subpart J - Equipment Authorization Procedures, Certification

Part 22, Subpart H – Cellular Radiotelephone Service

- § 22.905 – Channels for cellular service
- § 22.913 – Effective radiated power limits
- § 22.917 – Emission limitations for cellular equipment

Part 27; Miscellaneous Wireless Communications Services
Subpart C – Technical standards

- § 27.50 – Power and duty cycle limits
- § 27.53 – Emission limits
- § 27.54 – Frequency stability

Part 24, Subpart E – Broadband PCS

- § 24.232 – Power and antenna height limits
- § 24.235 – Frequency stability
- § 24.238 – Emission limitations for Broadband PCS equipment

Part 90; Private Land Mobile Radio Services

Subpart S—REGULATIONS GOVERNING LICENSING AND USE OF FREQUENCIES IN THE 806-824, 851-869, 896-901, AND 935-940 MHZ BANDS

Subpart R—REGULATIONS GOVERNING THE LICENSING AND USE OF FREQUENCIES IN THE 763-775 AND 793-805 MHZ BANDS

- § 90.635 – Limitations on power and antenna height
- § 90.543 – Emission limitations
- § 90.539 – Frequency stability

The tests were selected and performed with reference to:

- FCC Public Notice 971168 applying "Measurement guidance for certification of licensed digital transmitters" 971168 D01 v03r01, 2018-04-09
- ANSI C63.26: 2015

1.2 FCC-IC CORRELATION TABLE

Correlation of measurement requirements for Cellular Mobile Devices from FCC and ISED Canada

Measurement	FCC reference	ISED reference
RF Output Power	§ 2.1046 § 22.913	RSS-GEN Issue 5, 6.12 RSS-132 Issue 3, 5.4
Peak-Average-Ratio	-	RSS 132 Issue 3: 5.4
Emission and Occupied bandwidth	§ 2.1049	RSS-GEN Issue 5, 6.7
Spurious Emission at Antenna Terminals	§ 2.1051 § 22.917	RSS-GEN Issue 5, 6.13 RSS-132 Issue 3, 5.5
Band Edge Compliance	§ 2.1051 § 22.917	RSS-GEN Issue 4, 6.13 RSS-132 Issue 3, 5.5
Frequency stability	§ 2.1055 § 22.355	RSS-GEN Issue 5, 6.11 RSS-132 Issue 3: 5.3
Field strength of spurious radiation	§ 2.1053 § 22.917	RSS-GEN Issue 5, 6.13 RSS-132 Issue 3: 5.5

**Correlation of measurement requirements for
Cellular Mobile Devices
from
FCC and ISED Canada**

Measurement	FCC reference	ISED reference
RF Output Power	§ 2.1046 § 27.50	RSS-GEN Issue 5, 6.12 RSS-130 Issue 2, 4.6.2/4.6.3 RSS-139 Issue 3, 6.5 RSS-199 Issue 3, 4.4
Peak to Average-Ratio	§ 27.50	RSS-130 Issue 2: 4.6.1 RSS 139 Issue 3: 6.5 RSS-199 Issue 3, 4.4
Emission and Occupied bandwidth	§ 2.1049	RSS-GEN Issue 5, 6.7
Spurious Emission at Antenna Terminals	§ 2.1051 § 27.53	RSS-GEN Issue 5, 6.13 RSS-130 Issue 2: 4.7.1/4.7.2 RSS-139 Issue 3, 6.6 RSS-199 Issue 3, 4.5
Band Edge Compliance	§ 2.1051 § 27.53	RSS-GEN Issue 5, 6.13 RSS-130 Issue 2: 4.7.1/4.7.2 RSS-139 Issue 3, 6.6 RSS-199 Issue 3, 4.5
Frequency stability	§ 2.1055 § 27.54	RSS-GEN Issue 5, 6.11 RSS-130 Issue 2: 4.5 RSS-139 Issue 3: 6.4 RSS-199 Issue 3, 4.3
Field strength of spurious radiation	§ 2.1053 § 27.53	RSS-GEN Issue 5, 6.13 RSS-130 Issue 2: 4.7.1/4.7.2 RSS-139 Issue 3: 6.6 RSS-199 Issue 3, 4.5

**Correlation of measurement requirements for
Cellular Mobile Devices
from
FCC and ISED Canada**

Measurement	FCC reference	ISED reference
RF Output Power	§ 2.1046 § 24.232	RSS-GEN Issue 5, 6.12 RSS-133 Issue 6, 6.4
Peak-Average-Ratio	§ 24.232	RSS 133 Issue 6: 6.4
Emission and Occupied bandwidth	§ 2.1049	RSS-GEN Issue 5, 6.7
Spurious Emission at Antenna Terminals	§ 2.1051 § 24.238	RSS-GEN Issue 5, 6.13 RSS-133 Issue 6, 6.5
Band Edge Compliance	§ 2.1051 § 24.238	RSS-GEN Issue 5, 6.13 RSS-133 Issue 6, 6.5
Frequency stability	§ 2.1055 § 24.235	RSS-GEN Issue 5, 6.11 RSS-133 Issue 6: 6.3
Field strength of spurious radiation	§ 2.1053 § 24.236	RSS-GEN Issue 5, 6.13 RSS-133 Issue 6: 6.5

**Correlation of measurement requirements for
Cellular Mobile Devices
from
FCC and ISED Canada**

Measurement	FCC reference	ISED reference
RF Output Power	§ 2.1046 § 90.635	RSS-GEN Issue 5, 6.12 RSS-140 Issue 1, 4.3
Peak to Average-Ratio	§ 90.635	RSS-140 Issue 1, 4.3
Emission and Occupied bandwidth	§ 2.1049	RSS-GEN Issue 5, 6.7
Spurious Emission at Antenna Terminals	§ 2.1051 § 90.543	RSS-GEN Issue 5, 6.13 RSS-140 Issue 1, 4.4
Band Edge Compliance	§ 2.1051 § 90.543	RSS-GEN Issue 5, 6.13 RSS-140 Issue 1, 4.4
Frequency stability	§ 2.1055 § 90.539	RSS-GEN Issue 5, 6.11 RSS-140 Issue 1, 4.2
Field strength of spurious radiation	§ 2.1053 § 90.543	RSS-GEN Issue 5, 6.13 RSS-140 Issue 1, 4.4

1.3 MEASUREMENT SUMMARY

47 CFR CHAPTER I FCC PART 22 § 2.1046 § 22.913

Subpart H

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 850 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, high channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
GSM, GSM 850, low channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1046 § 22.913

Subpart H

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method

OP-Mode	Setup	Date	FCC	IC
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 10 MHz, 1, conducted	S01_AP04	2020-11-13	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1046 § 22.913

Subpart H

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method

OP-Mode	Setup	Date	FCC	IC
CAT-M1, eFDD 5 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-10	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1046 § 22.913

Subpart H

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method

	Setup	Date	FCC	IC
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 3, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 6, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 5, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 3, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 5 MHz, 6, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 5 MHz, 5, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1055 § 22.355

Subpart H

Frequency stability

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks/Subcarrier, Measurement method

	Setup	Date	FCC	IC
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-06-07	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-06-07	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-01	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-01	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-06-06	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1051 § 22.917

Subpart H

Spurious emissions at antenna terminals

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 850 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-08-07	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1053 § 22.917

Subpart H

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 850 EDGE, high channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 850 EDGE, low channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 850, high channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-25	Passed	Passed
GSM, GSM 850, low channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-25	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-25	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1049

Subpart H

Emission and occupied bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 850 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-27	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-27	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1051 § 22.917

Subpart H

Band edge compliance

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, 850, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, 850, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
EDGE, 850, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
EDGE, 850, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
LTE, eFDD 26 16QAM, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 26 16QAM, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 26 64QAM, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 26 64QAM, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 5 16QAM, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 5 16QAM, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
LTE, eFDD 5 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed

47 CFR CHAPTER I FCC PART 22

§ 2.1051 § 22.917

Subpart H

Band edge compliance

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method

	Setup	Date	FCC	IC
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 5 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-24	Passed	Passed

47 CFR CHAPTER I FCC PART 22

-

Subpart H

Peak-average-ratio

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode

Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method

	Setup	Date	FCC	IC
GSM, GSM 850 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 850, high channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
GSM, GSM 850, low channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
GSM, GSM 850, mid channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-03	Passed	Passed
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 5 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 5 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-11	Passed	Passed
NB-IoT, eFDD 5 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-11	Passed	Passed
NB-IoT, eFDD 5 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-11	Passed	Passed
NB-IoT, eFDD 5 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-11	Passed	Passed
NB-IoT, eFDD 5 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-11	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1046 § 24.232

Subpart E

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
GSM, GSM 1900, mid channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1046 § 24.232

Subpart E

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 2 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1046 § 24.232

Subpart E

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 25 QPSK, low channel, 3 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 5 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 10 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1046 § 24.232

Subpart E

RF Output power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-10	Passed	Passed
NB-IoT, eFDD 2 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AC01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AC01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AE01	2020-11-11	Passed	Passed
NB-IoT, eFDD 2 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AE01	2020-11-11	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1051 § 24.238

Subpart E

Spurious emissions at antenna terminal

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks /Subcarrier, Measurement method				
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP04	2020-07-08	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP04	2020-07-08	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1051 § 24.238

Subpart E

Spurious emissions at antenna terminal

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks /Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-27	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-27	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-27	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1053 § 24.236

Subpart E

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 1900 EDGE, mid channel, 0.2 MHz, -, radiated	S01_AL03	2020-05-30	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, radiated	S01_AL03	2020-06-04	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, radiated	S01_AL03	2020-06-04	Passed	Passed
GSM, GSM 1900, mid channel, 0.2 MHz, -, radiated	S01_AL03	2020-06-04	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-18	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-18	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-05-30	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-05-30	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-05-30	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 2.1049

Subpart E

Emission and occupied bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
GSM, GSM 1900 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
GSM, GSM 1900, mid channel, 0.2 MHz, -, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed

47 CFR CHAPTER I FCC PART 24
Subpart E

§ 2.1049

Emission and occupied bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 2 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed

47 CFR CHAPTER I FCC PART 24
Subpart E

§ 2.1051 § 24.238

Band edge compliance

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 2 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-24	Passed	Passed
NB-IoT, eFDD 2 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-24	Passed	Passed

47 CFR CHAPTER I FCC PART 24

§ 24.232

Subpart E

Peak to Average Ratio

The measurement was performed according to ANSI C63.26: 2015

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	Final Result	
			FCC	IC
GSM, GSM 1900 EDGE, high channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900 EDGE, low channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900 EDGE, mid channel, 0.2 MHz, -, conducted	S01_AL03	2020-11-07	Passed	Passed
GSM, GSM 1900, high channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
GSM, GSM 1900, low channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
GSM, GSM 1900, mid channel, 0.2 MHz, -, conducted	S01_AY07	2021-02-05	Passed	Passed
CAT-M1, eFDD 2 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 2 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 25 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 25 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 25 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 25 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 25 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-08-07	Passed	Passed
CAT-M1, eFDD 25 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-08-07	Passed	Passed
NB-IoT, eFDD 2 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-11-07	Passed	Passed
NB-IoT, eFDD 2 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-11-07	Passed	Passed
NB-IoT, eFDD 2 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-11-07	Passed	Passed
NB-IoT, eFDD 2 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-11-07	Passed	Passed
NB-IoT, eFDD 2 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-11-07	Passed	Passed
NB-IoT, eFDD 2 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-11-07	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	Final Result	
			FCC	IC
CAT-M1, eFDD 12 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 12 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 4 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, high channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-20	Passed	Passed
CAT-M1, eFDD 8 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, high channel, 3 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 3 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 3 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 3 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 3 MHz, 3, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 3 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 13 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 13 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 3 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 3 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 3 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 3 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 3 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 3 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 3 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 3 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 3 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 3 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 5 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 66 16QAM, low channel, 5 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 5 MHz, 5, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 5 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 5 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 5 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 5 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 5 MHz, 1, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 5 MHz, 3, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 5 MHz, 6, conducted	S01_AW06	2020-10-22	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 10 MHz, 5, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 10 MHz, 5, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 10 MHz, 5, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 10 MHz, 3, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 10 MHz, 6, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 10 MHz, 3, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 10 MHz, 6, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 10 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 10 MHz, 3, conducted	S01_AW06	2020-11-17	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 10 MHz, 6, conducted	S01_AW06	2020-11-17	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1046 § 27.50

Subpart C

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 3, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed

47 CFR CHAPTER I FCC PART 27
Subpart C

§ 2.1055 § 27.54

Frequency stability

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AL03	2020-06-16	Passed	Passed
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-27	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AL03	2020-06-16	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AL03	2020-06-16	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-25	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-06	Passed	Passed
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-12-27	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-06	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-06	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-28	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-22	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-28	Passed	Passed

47 CFR CHAPTER I FCC PART 27
Subpart C

§ 2.1051 § 27.53

Spurious emissions at antenna terminals

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AW06	2020-10-14	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-30	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-06-30	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1051 § 27.53

Subpart C

Spurious emissions at antenna terminals

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-02	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-02	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1053 § 27.53

Subpart C

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-02	Passed	Passed
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AW06	2020-10-14	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-05-30	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-05-30	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-05-30	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1053 § 27.53

Subpart C

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-10	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AW06	2020-11-20	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AW06	2020-11-20	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AW06	2020-11-20	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 1, radiated	S01_AL03	2020-06-18	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1049

Subpart C

Emission and occupied bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-14	Passed	Passed

47 CFR CHAPTER I FCC PART 27
Subpart C

§ 2.1049

Emission and occupied bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 66 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-14	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 4 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 4 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 4 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 12 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 12 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 12 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 13 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 66 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-18	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 85 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 85 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-08	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1051 § 27.53

Subpart C

Band edge compliance

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 8 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AX07	2020-12-21	Passed	N/A
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-10	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 13 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 13 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP04	2020-08-13	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-14	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-10-14	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 4 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 4 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-07-08	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 8 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AX07	2020-12-21	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-17	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-17	Passed	Passed
NB-IoT, eFDD 13 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP04	2020-08-11	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 2.1051 § 27.53

Subpart C

Band edge compliance

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 85 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed
NB-IoT, eFDD 85 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AP03	2020-06-30	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 27.50

Subpart C

Peak to Average Ratio

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 4 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 4 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 4 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 4 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 4 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 4 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 8 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 8 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AW06	2020-12-23	Passed	N/A
CAT-M1, eFDD 12 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 12 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 12 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 12 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 12 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 12 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	Passed
CAT-M1, eFDD 13 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 13 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 13 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 13 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 13 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 13 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AL03	2020-07-11	Passed	Passed
CAT-M1, eFDD 66 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AW06	2020-11-09	Passed	Passed
CAT-M1, eFDD 66 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AW06	2020-11-09	Passed	Passed
CAT-M1, eFDD 66 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AW06	2020-11-09	Passed	Passed
CAT-M1, eFDD 66 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AW06	2020-11-09	Passed	Passed
CAT-M1, eFDD 66 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AW06	2020-11-09	Passed	Passed
CAT-M1, eFDD 66 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AW06	2020-11-09	Passed	Passed
NB-IoT, eFDD 4 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed

47 CFR CHAPTER I FCC PART 27

§ 27.50

Subpart C

Peak to Average Ratio

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
NB-IoT, eFDD 4 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 4 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 8 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 8 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 8 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 8 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 8 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 8 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-12-23	Passed	N/A
NB-IoT, eFDD 12 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 12 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 12 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 13 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 66 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 71 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 71 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AW06	2020-11-19	Passed	Passed
NB-IoT, eFDD 85 QPSK, high channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, low channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 QPSK, mid channel, 0.2 MHz, 12, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, high channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, low channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed
NB-IoT, eFDD 85 BPSK, mid channel, 0.2 MHz, 1, conducted	S01_AL03	2020-07-11	Passed	Passed

47 CFR CHAPTER I FCC PART 90

§ 2.1046 § 90.635

Subpart S

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, high channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 3 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 3 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, high channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 5 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 5 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 2.1046 § 90.635
Subpart S

RF Output Power

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 26 16QAM, mid channel, 10 MHz, 5, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 1, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 3, conducted	S01_AP03	2020-06-21	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 10 MHz, 6, conducted	S01_AP03	2020-06-21	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 2.1055 § 90.539
Subpart S

Frequency Stability

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	-	-	-	-
COMMENT: Test was performed for Part FCC22				

47 CFR CHAPTER I FCC PART 90 § 2.1051 § 90.543
Subpart S

Spurious Emissions at antenna terminals

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, conducted	S01_AL03	2020-07-14	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 2.1051 § 90.543
Subpart S

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method	Setup	Date	FCC	IC
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 1, radiated	S01_AP03	2020-06-30	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 1, radiated	S01_AP03	2020-06-30	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 1, radiated	S01_AP03	2020-06-30	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 2.1049
Subpart S

Emission and Occupied Bandwidth

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 2.1051 § 90.543
Subpart S

Band Edge

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-10-06	Passed	N/A

47 CFR CHAPTER I FCC PART 90 § 90.635
Subpart S

Peak to Average Ratio

The measurement was performed according to ANSI C63.26: 2015

Final Result

OP-Mode	Setup	Date	FCC	IC
Technology, Radio Technology, Operating Frequency, ChBW, Resource Blocks / Subcarrier, Measurement method				
CAT-M1, eFDD 26 16QAM, high channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	N/A
CAT-M1, eFDD 26 16QAM, low channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	N/A
CAT-M1, eFDD 26 16QAM, mid channel, 1.4 MHz, 5, conducted	S01_AP03	2020-06-24	Passed	N/A
CAT-M1, eFDD 26 QPSK, high channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	N/A
CAT-M1, eFDD 26 QPSK, low channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	N/A
CAT-M1, eFDD 26 QPSK, mid channel, 1.4 MHz, 6, conducted	S01_AP03	2020-06-24	Passed	N/A

N/A: Not applicable

N/P: Not performed

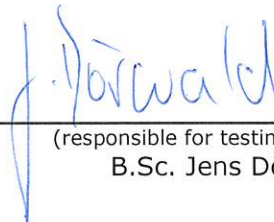
2 REVISION HISTORY / SIGNATURES

Report version control			
Version	Release date	Change Description	Version validity
initial	2021-01-12	--	invalid
REV01	2021-02-05	remeasurement of GSM850 & GSM1900 output power & peak to average	invalid
REV02	2021-03-04	RSS-140 deleted from page 239 and following	invalid
REV03	2021-03-09	Limits for eFDD66 changed in table on page 142 and following & for eFDD26 in table on page 240	invalid
REV04	2021-03-15	In Table on page 243 CAT-M1 eFDD66 corrected into CAT-M1 eFDD26	valid

COMMENT: -



(responsible for accreditation scope)
Dipl.-Ing. Marco Kullik



(responsible for testing and report)
B.Sc. Jens Dörwald



7 layers GmbH, Borsigstr. 11
40880 Ratingen, Germany
Phone +49 (0)2102 749 0

3 ADMINISTRATIVE DATA

3.1 TESTING LABORATORY

Company Name: 7layers GmbH
Address: Borsigstr. 11
40880 Ratingen
Germany

The test facility is accredited by the following accreditation organisation:

Laboratory accreditation no: DAKKS D-PL-12140-01-01| -02 | -03
FCC Designation Number: DE0015
FCC Test Firm Registration: 929146
ISED CAB Identifier: DE0007; ISED#: 3699A
Responsible for accreditation scope: Dipl.-Ing. Marco Kullik
Report Template Version: 2020-06-15

3.2 PROJECT DATA

Responsible for testing and report: B.Sc. Jens Dörwald
Employees who performed the tests: documented internally at 7Layers
Date of Report: 2021-03-15
Testing Period: 2020-05-25 to 2021-02-05

3.3 APPLICANT DATA

Company Name: u-blox AG
Address: Zürcherstrasse 68
8800 Thalwil
Switzerland
Contact Person: Mr. Giulio Comar

3.4 MANUFACTURER DATA

Company Name: please see Applicant Data
Address:
Contact Person:

4 TEST OBJECT DATA

4.1 GENERAL EUT DESCRIPTION

Kind of Device product description	LTE CAT-M1 / NB-IoT / GPRS module
Product name	SARA-R422M8S SARA-R422S SARA-R422
Type	-
Declared EUT data by the supplier	
Power Supply Type	DC
Nominal Voltage / Frequency	3.8 V DC
Test Voltage / Frequency	Low Voltage = 3.6 V Normal Voltage = 3.8 V High Voltage = 4.2 V
General Description	LTE CAT-M1 / NB-IoT / GPRS module

4.2 EUT MAIN COMPONENTS

Sample Name	Sample Code	Description
EUT A	DE1015120a103	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110015693	
HW Version	360CA1	
SW Version	00.02	
Comment	-	

Sample Name	Sample Code	Description
EUT B	DE1015120ap03	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110010777	
HW Version	360CA1	
SW Version	00.02	
Comment	-	

Sample Name	Sample Code	Description
EUT C	DE1015120ap04	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110010777	
HW Version	360CA1	
SW Version	00.03	
Comment	-	

Sample Name	Sample Code	Description
EUT D	DE1015120aw06	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110027284	
HW Version	360DA1	
SW Version	00.04	
Comment	-	

Sample Name	Sample Code	Description
EUT E	DE1015129ac01	SARA-R422
Sample Parameter	Value	
Serial No.	355440110016341	
HW Version	360DB0	
SW Version	00.04	
Comment	-	

Sample Name	Sample Code	Description
EUT F	DE1015129ae01	SARA-R422S
Sample Parameter	Value	
Serial No.	355438110013250	
HW Version	360CA1	
SW Version	00.02	
Comment	-	

Sample Name	Sample Code	Description
EUT G	DE1015129ax07	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110027367	
HW Version	360DA1	
SW Version	00.06	
Comment	-	

Sample Name	Sample Code	Description
EUT H	DE1015120ay07	SARA-R422M8S
Sample Parameter	Value	
Serial No.	355438110033183	
HW Version	360DA1	
SW Version	00.06	
Comment	-	

NOTE: The short description is used to simplify the identification of the EUT in this test report.

4.3 ANCILLARY EQUIPMENT

For the purposes of this test report, ancillary equipment is defined as equipment which is used in conjunction with the EUT to provide operational and control features to the EUT. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Ancillary Equipment can influence the test results.

Device	Details (Manufacturer, Type Model, OUT Code)	Description
-	-	-

4.4 AUXILIARY EQUIPMENT

For the purposes of this test report, auxiliary equipment is defined as equipment which is used temporarily to enable operational and control features especially used for the tests of the EUT which is not used during normal operation or equipment that is used during the tests in combination with the EUT but is not subject of this test report. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Auxiliary Equipment can influence the test results.

Device	Details (Manufacturer, Type Model, HW, SW, S/N)	Description
-	-	-

4.5 EUT SETUPS

This chapter describes the combination of EUTs and equipment used for testing. The rationale for selecting the EUTs, ancillary and auxiliary equipment and interconnecting cables, is to test a representative configuration meeting the requirements of the referenced standards.

Setup	Combination of EUTs	Description and Rationale
S01_AL03	EUT A	radiated & conducted sample
S01_AP03	EUT B	radiated & conducted sample
S01_AP04	EUT C	radiated & conducted sample
S01_AW06	EUT D	radiated & conducted sample
S01_AC01	EUT E	conducted sample
S01_AE01	EUT F	conducted sample
S01_AX07	EUT G	conducted sample
S01_AY07	EUT H	conducted sample

4.6 OPERATING MODES / TEST CHANNELS

This chapter describes the operating modes of the EUTs used for testing.

GSM / EDGE 850		LOW	MID	HIGH
	Cell BW [MHz]	0.2	0.2	0.2
	CH no.	128	190	251
	f [MHz]	824.2	836.6	848.8

GSM / EDGE 1900		LOW	MID	HIGH
	Cell BW [MHz]	0.2	0.2	0.2
	CH no.	512	661	810
	f [MHz]	1850.2	1880.0	1909.8

CAT-M1 eFDD 2		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	18607	18900	19193	18615	18900	19185	18625	18900	19175
	f [MHz]	1850.7	1880.0	1909.3	1851.5	1880.0	1908.5	1852.5	1880.0	1907.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	CH no.	18650	18900	19150	-	-	-	-	-	-
	f [MHz]	1855.0	1880.0	1905.0	-	-	-	-	-	-

CAT-M1 eFDD 4		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	19957	20175	20393	19965	20175	20385	19975	20175	20375
	f [MHz]	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	CH no.	20000	20175	20350	-	-	-	-	-	-
	f [MHz]	1715.0	1732.5	1750.0	-	-	-	-	-	-

CAT-M1 eFDD 5		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	20407	20525	20643	20415	20525	20635	20425	20525	20625
	f [MHz]	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	CH no.	20450	20525	20600	-	-	-	-	-	-
	f [MHz]	829.0	836.5	844.0	-	-	-	-	-	-

CAT-M1 eFDD 8		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	-	3	-	-	-	-
	CH no.	21632	21640	21648	-	20525	-	-	-	-
	f [MHz]	898.2	899.0	899.8	-	899.0	-	-	-	-
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	-	-	-	-	-	-	-	-	-
	CH no.	-	-	-	-	-	-	-	-	-
	f [MHz]	-	-	-	-	-	-	-	-	-

CAT-M1 eFDD 12		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	23017	23095	23173	23025	23095	23165	23035	23095	23155
	f [MHz]	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	CH no.	23060	23095	23130	-	-	-	-	-	-
	f [MHz]	704.0	707.5	711.0	-	-	-	-	-	-

CAT-M1 eFDD 13		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	5	5	5	10	10	10	-	-	-
	CH no.	23205	23230	23255	-	23230	-	-	-	-
	f [MHz]	779.5	782.0	784.5	-	782.0	-	-	-	-
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	-	-	-	-	-	-	-	-	-
	f [MHz]	-	-	-	-	-	-	-	-	-

CAT-M1 eFDD 25		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	26047	26365	26683	26055	26365	26675	26065	26365	26665
	f [MHz]	1850.7	1882.5	1914.3	1851.5	1882.5	1913.5	1852.5	1882.5	1912.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	f [MHz]	1855.0	1882.5	1910.0	-	-	-	-	-	-

CAT-M1 eFDD 26 (Part 22)		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	26797	26915	27033	26805	26915	27025	26815	26915	27015
	f [MHz]	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	f [MHz]	829.0	836.5	844	-	-	-	-	-	-

CAT-M1 eFDD 26 (Part 90)		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	26697	26740	26783	26705	26740	26776	26715	26740	26766
	f [MHz]	814.7	819.0	823.3	815.5	819.0	822.5	816.5	819.0	821.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	-	10	-	-	-	-	-	-	-
	f [MHz]	-	819.0	-	-	-	-	-	-	-

CAT-M1 eFDD 66		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	1.4	1.4	1.4	3	3	3	5	5	5
	CH no.	131979	132322	132665	131987	132322	132657	131997	132322	132647
	f [MHz]	1710.7	1745.0	1779.3	1711.5	1745.0	1778.5	1712.5	1745.0	1777.5
		LOW	MID	HIGH	LOW	MID	HIGH	LOW	MID	HIGH
	Cell BW [MHz]	10	10	10	-	-	-	-	-	-
	f [MHz]	1715.0	1745.0	1775.0	-	-	-	-	-	-

NB-IoT eFDD 2		LOW	MID	HIGH
	Cell BW [MHz]	0.2	0.2	0.2
	CH no.	18601	18900	19199
	f [MHz]	1850.1	1880.0	1909.9

NB-IoT eFDD 4		LOW	MID	HIGH
	Cell BW [MHz]	0.2	0.2	0.2
	CH no.	19951	20175	20399
	f [MHz]	1710.1	1745.5	1754.9

NB-IoT eFDD 5		LOW	MID	HIGH
	Cell BW [MHz]	0.2	0.2	0.2
	CH no.	20401	20525	20649
	f [MHz]	824.1	836.5	848.9