

Report No.: SUHR/2021/C000102

Rev.: 01 Page: 1 of 57

TEST REPORT

Application No.: HR/2021/C0001

Applicant: Honor Device Co., Ltd.

Address of Applicant Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

Manufacturer: Honor Device Co., Ltd.

Address of Manufacturer Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

EUT Description: Smart Phone
Model No.: NTN-LX3

Trade Mark: HONOR

FCC ID: 2AYGCNTN-LX3
Standards: 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart H 47 CFR Part 27 subpart L 47 CFR Part 27 subpart M 47 CFR Part 90 subpart S

Date of Receipt: 2021/12/8

Date of Test: 2021/12/15 to 2021/12/18

Date of Issue: 2021/12/18

Test Result : PASS *

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 中国 - 茶鄉 - 中国 (丁末) 自由贸易证验反茶州上受取回路路(号应是广泛由路路) 邮编。 215000

^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Report No.: SUHR/2021/C000102

Rev.: 01 Page: 2 of 57

1.Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021/12/18 | | Original |
| | | | | |
| | | | | |

| Prepared By | weller lin |
|-------------|--|
| Checked By | (Weller Liu) / Engineer (Well Wei) / Reviewer |





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 3 of 57

Contents

| 1.Version | 2 |
|---|----|
| 2. Test Summary | 5 |
| 2.1 GSM850/UMTS Band 5/LTE Band 5/26(824~849 MHz) | 5 |
| 2.2 GSM 1900/UMTS Band 2 /LTE Band 2 | 6 |
| 2.3 UMTS Band 4 /LTE Band 4 /66 | 7 |
| 2.4 LTE Band 7 | 8 |
| 2.5 LTE Band 12/17 | 10 |
| 2.6 LTE Band 26(814~824 MHz) | 11 |
| 3.General Information | 13 |
| 3.1 Details of Client | 13 |
| 3.2 Test Location | 13 |
| 3.3 Test Facility | 13 |
| 3.4 General Description of EUT | 14 |
| 3.5 Test Mode | 15 |
| 3.6 Test Environment | 15 |
| 3.6 Technical Specification | 16 |
| 3.7 Test Frequencies | 17 |
| 4. Description of Tests | 23 |
| 4.1 Conducted Output Power | 23 |
| 4.2 Effective (Isotropic) Radiated Power of Transmitter | 24 |
| 4.3 Occupied Bandwidth | 25 |
| 4.4 Band Edge at Antenna Terminals | 26 |
| 4.5 Spurious And Harmonic Emissions at Antenna Terminal | 27 |
| 4.6 Peak-Average Ratio | 28 |
| 4.7 Field Strength of Spurious Radiation | 29 |
| 4.8 Frequency Stability / Temperature Variation | 30 |
| 4.9 Test Setups | 31 |
| 4.9.1 Test Setup 1 | 31 |
| 4.9.2 Test Setup 2 | 31 |
| 4.9.3 Test Setup 3 | 32 |
| 4.10 Test Conditions | 33 |



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| Report No: | SUHR/2021/C000102 |
|------------|---------------------|
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| Rev.: | 01 |
|-------|---------|
| Page. | 4 of 57 |

| 5. | Main Test Instruments | .36 |
|----|-------------------------|-----|
| 6. | Measurement Uncertainty | .37 |
| 7. | Appendixes | .38 |





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 5 of 57

2. Test Summary

2.1 GSM850/UMTS Band 5/LTE Band 5/26(824~849 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|-----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913(a)(5) | ERP ≤ 7 W | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | §22.913(d) | Limit≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Band Edges Compliance | §2.1051, §22.917(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §22.917(a) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §22.917(a) | FCC: ≤ -13 dBm/100 kHz. | Appendix | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §22.355 | ≤ ±2.5ppm. | Refer to HR/2021/1001401 | Pass |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 6 of 57

2.2 GSM 1900/UMTS Band 2 /LTE Band 2

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|-----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §24.232(c) | EIRP ≤ 2 W | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | §24.232(d) | Limit≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Band Edges Compliance | §2.1051, §24.238(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §24.238(a) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §24.238(a) | ≤ -13 dBm/1 MHz. | Appendix | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §24.235 | Within authorized bands of operation/frequency block. | Refer to HR/2021/1001401 | Pass |





Report No.: SUHR/2021/C000102

Rev.: Page: 7 of 57

2.3 UMTS Band 4 /LTE Band 4 /66

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|---|---|-----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(d)(4) | EIRP ≤ 1 W | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | §27.50(d)(5) | Limit≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Band Edges Compliance | §2.1051, §27.53(h) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(h) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(h) | ≤ -13 dBm/1 MHz. | Appendix | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Refer to HR/2021/1001401 | Pass |





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 8 of 57

2.4 LTE Band 7

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|--------------------------|---|-----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(h)(2) | EIRP ≤ 2W | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | | ≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Band Edges Compliance | §2.1051, §27.53(m4) | For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as de ned in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(m) | Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 9 kHz 1 MHz 1 | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(m) | Channel Edge -25dBm/ 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10th harmonics X=Max {6MHz, EBW} | Appendix | Pass |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 9 of 57

Frequency Stability \$2.1055(a)(1)(b) Within authorized bands of operation/frequency block. Refer to HR/2021/1001401 Pass



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 10 of 57

2.5 LTE Band 12/17

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|---|---|-----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §27.50(c)(10) | ERP≤3W. | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | | Limit≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | FCC: ≤ -13 dBm/100 kHz. | Appendix | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Refer to HR/2021/1001401 | Pass |





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 11 of 57

2.6 LTE Band 26(814~824 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|---|--|---|-----------------------------|---------|
| Transmitter Power Output | §2.1046, §90.635(b) | < 100 W. | Refer to HR/2021/1001401 | Pass |
| Peak-Average Ratio | | Limit≤13 dB | Refer to HR/2021/1001401 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Refer to HR/2021/1001401 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Refer to HR/2021/1001401 | Pass |
| Emission Mask | §2.1051 § 90.691(a) | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. | Refer to HR/2021/1001401 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Refer to HR/2021/1001401 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Appendix | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §90.213 | Within authorized bands of operation/frequency block. | Refer to HR/2021/1001401 | Pass |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 12 of 57

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According to the difference declaration from the applicant, only radiation spurious emissions is performed based on the worst case of the original report and the other test data can be refereed to the original test report.



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 13 of 57

3. General Information

3.1 Details of Client

| Applicant: | Honor Device Co., Ltd. |
|--------------------------|---|
| Address of Applicant: | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |
| Manufacturer: | Honor Device Co., Ltd. |
| Address of Manufacturer: | Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |

3.2 Test Location

| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd |
|----------------|--|
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Weller Liu, King-p Li, Nature Shen, Tizzy Song |

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

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Test Firm Registration Number:0031225543



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 14 of 57

3.4 General Description of EUT

| EUT Description: | Smart Phone | | | | | | |
|-------------------|----------------------|--|----------|--|--|--|--|
| Model No.: | NTN-LX3 | NTN-LX3 | | | | | |
| Trade Mark: | HONOR | HONOR | | | | | |
| Hardware Version: | HL1NTNM | | | | | | |
| Software Version: | 11.0.2.88(C900E85R | R1P3) | | | | | |
| Sample Type: | □ Portable Device, □ | ☐Module | | | | | |
| Antenna Type: | ☐ External, ☐ Integ | ırated | | | | | |
| | ⊠Provided by applic | ant | | | | | |
| | 1 (381/1850) | Down Antenna); Up Antenna); | GSM1900: | -5.4dBi(Down Antenna); -3.1dBi(Up Antenna); | | | |
| | | -5.4dBi(Down Antenna); -3.1dBi(Up Antenna); | | -1.0dBi(Down Antenna); -6.3dBi(Up Antenna); | | | |
| | , | -0.6dBi(Down Antenna); -5.3dBi(Up Antenna); | | | | | |
| Antenna Gain*: | · · | -5.4dBi(Down Antenna); -3.1dBi(Up Antenna); | | -1.0dBi(Down Antenna); -6.3dBi(Up Antenna); | | | |
| | · · | -0.6dBi(Down Antenna); -5.3dBi(Up Antenna); | | -1.4dBi(Down Antenna); -1.6dBi(Up Antenna); | | | |
| | , | -1.6dBi(Down Antenna); -2.8dBi(Up Antenna); | | -1.6dBi(Down Antenna); -2.8dBi(Up Antenna); | | | |
| | | -0.6dBi(Down Antenna); -5.3dBi(Up Antenna); | | -1.0dBi(Down Antenna); -5.3dBi(Up Antenna); | | | |
| | ☑Provided by applic | ant | | | | | |
| RF Cable*: | 0.5dB(0.6~1GHz) | 0.8dB(1.4 | -2GHz) | 1.0dB(2.1~2.7GHz) | | | |
| | 1.5dB(3~4GHz) | 1.8dB(4.4 | l~6GHz) | | | | |

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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 15 of 57

3.5 Test Mode

| Test Mode | Test Modes Description |
|-------------------------|---|
| GSM/TM1 | GSM system, GSM/GPRS, GMSK modulation |
| GSM/TM2 | GSM system, EGPRS, 8PSK modulation |
| UMTS/TM1 | UMTS system, WCDMA, QPSK modulation |
| LTE/TM1 | LTE system, QPSK modulation |
| LTE/TM2 | LTE system, 16QAM modulation |
| Remark: The test mode(s |) are selected according to relevant radio technology specifications. |

3.6 Test Environment

| Environment Parameter | 101 KPa Selected Values During Tests | | | | |
|-----------------------|--------------------------------------|------|--|--|--|
| Relative Humidity | 44~46% RH Ambient | | | | |
| Value | Temperature(°C) Voltage(V) | | | | |
| NTNV | 22~23 | 3.87 | | | |
| LTLV | -10 | 3.6 | | | |
| LTHV | -10 | 4.48 | | | |
| HTLV | 55 | 3.6 | | | |
| HTHV | 55 | 4.48 | | | |

Remark:

NV: Normal Voltage

NT: Normal Temperature

LT: Low Extreme Test Temperature HT: High Extreme Test Temperature LV: Low Extreme Test Voltage

HV: High Extreme Test Voltage



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 16 of 57

3.6 Technical Specification

| Characteristics | Description | | | | | | | | |
|-----------------------------|--|--------------|--|----------|----------------|----------------|---------|-------------------|--|
| Radio System Type | ☐ GSM ☐ UMTS ☐ LTE ☐ CDMA ☐ EVE | | | | ☐ EVDO | | | | |
| | Band | | TX | | RX | RX | | | |
| | GSM850 | | 824 to 849 MHz | | 869 to | 894 MHz | | | |
| | GSM1900 | | 1850 | to 191 | 0 MHz | | 1930 t | o 1990 MHz | |
| | UMTS Band II | | 1850 | to 191 | 0 MHz | | 1930 t | o 1990 MHz | |
| | UMTS Band I\ | | 1710 | to 175 | 5 MHz | | 2110 t | o 2155 MHz | |
| | UMTS Band V | | 824 t | to 849 N | ИHz | | 869 to | 894 MHz | |
| Supported Frequency Range | LTE Band 2 | | | to 191 | | | | o 1990 MHz | |
| | LTE Band 4 | | | to 175 | | | | o 2155 MHz | |
| | LTE Band 5 | | | to 849 N | | | | 894 MHz | |
| | LTE Band 7 | | | to 257 | | | | o 2690 MHz | |
| | LTE Band 12 | | | to 716 N | | | | 746 MHz | |
| - | LTE Band 17 | | 704 t | to 716 N | ИHz | | 734 to | 746 MHz | |
| | LTE Band 26 | | 814 t | to 824N | 1H2 | | 859 to | 869 MHz | |
| | (814 to 824 MHz) | | 0141 | 0 02+10 | 11 12 | | 000 10 | 039 to 009 WII 12 | |
| | LTE Band 26 | | 824 to 849 MHz | | 869 to | 869 to 894 MHz | | | |
| | (824 to 849 MHz) | | | | | | | | |
| | LTE Band 66 | | | to 178 | 0 MHz | | 2110 t | o 2200 MHz | |
| | GSM system: | | | MHz | | | | | |
| | UMTS system | | ⊠5 MHz ⊠1.4 MHz ⊠3 MHz ⊠5 MHz ⊠10 MHz | | | | | | |
| | LTE Band 2 | | ⊠1.4 ⊠15 | | ⊠3 MF ⊠20 M | _ | ⊠5 MHz | ː ⊠10 MHz | |
| | | | | | <u>⊠</u> 23 M⊦ | | ⊠5 MHz | ː ⊠10 MHz | |
| | LTE Band 4 | | _ | | ⊠20 M | | | | |
| | LTE Band 5 | | | | ⊠3 MH | | ⊠5 MHz | ː ⊠10 MHz | |
| | LTE Band 7 | | ⊠5 N | | ⊠10 M | | | | |
| | LTE Band 12 | | | | ⊠ 3 M⊦ | | ∑5 MHz | | |
| Supported Channel Bandwidth | LTE Band 17 | | <u></u> 5 № | | <u> </u> | | | | |
| | LTE Band 26(8 | 314-824) | | | <u></u> | | ⊠5 MHz | ː ⊠10 MHz | |
| | LTE Band 26(8 | • | | MHz | ⊠ 3 M⊦ | | ⊠5 MHz | | |
| | LTE Band66 | | | MHz | ⊠3 MF ⊠20 M | _ | ⊠5 MHz | ⊠10 MHz | |
| | Note1: WCDM | A supports H | ISUPA | A, HSDF | PA, DS- | HSDF | PA,HSPA | A+, but only the | |
| | worst case was tested and the data displayed in this report. | | | | | | | | |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 17 of 57

3.7 Test Frequencies

| Test Mode | TX / RX | RF Channel | | | |
|--------------|---------|-------------|-------------|-------------|--|
| i est ivioue | IA/IX | Low (L) | Middle (M) | High (H) | |
| GSM850 | TX | Channel 128 | Channel 190 | Channel 251 | |
| | | 824.2MHz | 836.6 MHz | 848.8 MHz | |
| | DV | Channel 128 | Channel 190 | Channel 251 | |
| | RX | 869.2 MHz | 881.6 MHz | 893.8 MHz | |

| Test Mode | TX / RX | RF Channel | | | |
|-----------|---------|-------------|-------------|-------------|--|
| rest wode | IA/NA | Low (L) | Middle (M) | High (H) | |
| | TX | Channel 512 | Channel 661 | Channel 810 | |
| CCM4000 | | 1850.2MHz | 1880.0 MHz | 1909.8 MHz | |
| GSM1900 | DV | Channel 512 | Channel 661 | Channel 810 | |
| | RX | 1930.2 MHz | 1960.0 MHz | 1989.8 MHz | |

| Test Mode | TX / RX | RF Channel | | | |
|---------------|---------|--------------|--------------|--------------|--|
| rest wode | IA/ NA | Low (L) | Middle (M) | High (H) | |
| | TX | Channel 9262 | Channel 9400 | Channel 9538 | |
| WCDMA Band II | | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz | |
| | | Channel 9662 | Channel 9800 | Channel 9938 | |
| | RX | 1932.4 MHz | 1960.0 MHz | 1987.6 MHz | |

| Test Mode TX / RX | | RF Channel | | | |
|-------------------|--------|--------------|--------------|--------------|--|
| rest wode | IA/ NA | Low (L) | Middle (M) | High (H) | |
| | | Channel 1312 | Channel 1413 | Channel 1513 | |
| MCDMA Bond IV | TX | 1712.4MHz | 1732.6 MHz | 1752.6 MHz | |
| WCDMA Band IV | DV | Channel 1537 | Channel 1638 | Channel 1738 | |
| | RX | 2112.4 MHz | 2132.6 MHz | 2152.6 MHz | |

| Test Mode | TX / RX | RF Channel | | | |
|--------------|---------|--------------|--------------|--------------|--|
| rest wode | IA/NA | Low (L) | Middle (M) | High (H) | |
| WCDMA Band V | TX | Channel 4132 | Channel 4182 | Channel 4233 | |
| | | 826.4MHz | 836.4 MHz | 846.6 MHz | |
| | | Channel 4357 | Channel 4407 | Channel 4458 | |
| | RX | 871.4 MHz | 881.4 MHz | 891.6 MHz | |





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 18 of 57

| Took Mode | Danielo dale | TV / DV | | RF Channel | |
|-------------|--------------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 18607 | Channel 18900 | Channel 19193 |
| | | TX | 1850.7 MHz | 1880 MHz | 1909.3 MHz |
| | 1.4MHz | RX | Channel 607 | Channel 900 | Channel 1193 |
| | | KA | 1930.7 MHz | 1960 MHz | 1989.3 MHz |
| | | | Channel 18615 | Channel 18900 | Channel 19185 |
| | | TX | 1851.5 MHz | 1880 MHz | 1908.5 MHz |
| | 3MHz | RX | Channel 615 | Channel 900 | Channel 1185 |
| | | KA | 1931.5 MHz | 1960 MHz | 1988.5 MHz |
| | | | Channel 18625 | Channel 18900 | Channel 19175 |
| | | TX | 1852.5 MHz | 1880 MHz | 1907.5 MHz |
| | 5MHz | RX | Channel 625 | Channel 900 | Channel1175 |
| LTE Band 2 | | | 1932.5 MHz | 1960 MHz | 1987.5 MHz |
| LTE Ballu Z | | | Channel 18650 | Channel 18900 | Channel 19150 |
| | | TX | 1855 MHz | 1880 MHz | 1905 MHz |
| | 10MHz | /lHz RX | Channel 650 | Channel 900 | Channel 1150 |
| | | NΛ | 1935 MHz | 1960 MHz | 1985 MHz |
| | | | Channel 18675 | Channel 18900 | Channel 19125 |
| | | TX | 1857.5 MHz | 1880 MHz | 1902.5 MHz |
| | 15MHz | RX | Channel 675 | Channel 900 | Channel 1125 |
| | | KA | 1937.5 MHz | 1960 MHz | 1982.5 MHz |
| | | | Channel 18700 | Channel 18900 | Channel 19100 |
| | | TX | 1860 MHz | 1880 MHz | 1900 MHz |
| | 20MHz | RX | Channel 700 | Channel 900 | Channel 1100 |
| | | INΛ | 1940 MHz | 1960 MHz | 1980 MHz |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 19 of 57

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|-------------|-------------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | | RF Channel | |
| rest Mode | Dariuwiuiii | IA/NA | Low (L) | Middle (M) | High (H) |
| | | | Channel 19957 | Channel 20175 | Channel 20393 |
| | | TX | 1710.7 MHz | 1732.5 MHz | 1754.3 MHz |
| | 1.4MHz | RX | Channel 1975 | Channel 2175 | Channel 2375 |
| | | KA | 2112.5 MHz | 2132.5MHz | 2152.5 MHz |
| | | | Channel 19965 | Channel 20175 | Channel 20385 |
| | | TX | 1711.5 MHz | 1732.5 MHz | 1753.5 MHz |
| | 3MHz | RX | Channel 2000 | Channel 2175 | Channel 2350 |
| | | KA | 2115 MHz | 2132.5MHz | 2150 MHz |
| | | | Channel 19975 | Channel 20175 | Channel 20375 |
| | 5MHz | TX | 1712.5 MHz | 1732.5 MHz | 1752.5 MHz |
| | | RX | Channel 1975 | Channel 2175 | Channel 2375 |
| LTC Donal 4 | | | 2112.5 MHz | 2132.5MHz | 2152.5 MHz |
| LTE Band 4 | 10MHz | TX | Channel 20000 | Channel 20175 | Channel 20350 |
| | | | 1715 MHz | 1732.5 MHz | 1750 MHz |
| | | RX | Channel 2000 | Channel 2175 | Channel 2350 |
| | | | 2115 MHz | 2132.5MHz | 2150 MHz |
| | | | Channel 20025 | Channel 20175 | Channel 20325 |
| | | TX | 1717.5 MHz | 1732.5 MHz | 1747.5 MHz |
| | 15MHz | RX | Channel 2025 | Channel 2175 | Channel 2325 |
| | | TOX | 2117.5 MHz | 2132.5MHz | 2147.5 MHz |
| | | | Channel 20050 | Channel 20175 | Channel 20300 |
| | | TX | 1720 MHz | 1732.5 MHz | 1745 MHz |
| | 20MHz | DV | Channel 2050 | Channel 2175 | Channel 2300 |
| | | RX | 2120 MHz | 2132.5MHz | 2145 MHz |

| Toot Made | Bandwidth | TV / DV | | RF Channel | |
|------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Danawidin | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 20407 | Channel 20525 | Channel 20643 |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz |
| | 1.4MHz | RX | Channel 2407 | Channel 2525 | Channel 2643 |
| | | KΛ | 869.7 MHz | 881.5 MHz | 893.3 MHz |
| | | | Channel 20415 | Channel 20525 | Channel 20635 |
| | 3MHz | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz |
| | | RX | Channel 2415 | Channel 2525 | Channel 2635 |
| LTE Day LE | | | 870.5 MHz | 881.5 MHz | 892.5 MHz |
| LTE Band 5 | 5MHz | TX | Channel 20425 | Channel 20525 | Channel 20625 |
| | | | 826.5 MHz | 836.5 MHz | 846.5 MHz |
| | | RX | Channel 2425 | Channel 2525 | Channel 2625 |
| | | | 871.5 MHz | 881.5 MHz | 891.5 MHz |
| | | | Channel 20450 | Channel 20525 | Channel 20600 |
| | | TX | 829 MHz | 836.5 MHz | 844 MHz |
| | 10MHz | RX | Channel 2450 | Channel 2525 | Channel 2600 |
| | | KX | 874 MHz | 881.5 MHz | 889 MHz |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 20 of 57

| | | | ı ag | C. 20 01 01 | | |
|------------|---------------------------------------|---------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
| i est Mode | Dandwidth | IA/IX | Low (L) | Middle (M) | High (H) | |
| | · · · · · · · · · · · · · · · · · · · | | Channel 20775 | Channel 21100 | Channel 21425 | |
| | | TX | 2502.5 MHz | 2535 MHz | 2567.5 MHz | |
| | 5MHz | RX | Channel 2775 | Channel 3100 | Channel 5825 | |
| | | IVA | 2622.5 MHz | 2655 MHz | 2687.5 MHz | |
| | | | Channel 20800 | Channel 21100 | Channel 21400 | |
| | 10MHz | TX | 2505 MHz | 2535 MHz | 2565 MHz | |
| | | RX | Channel 2800 | Channel 3100 | Channel 3400 | |
| 1.TE D 1.7 | | | 2625 MHz | 2655 MHz | 2685 MHz | |
| LTE Band 7 | | TX | Channel 20825 | Channel 21100 | Channel 21375 | |
| | | | 2507.5 MHz | 2535 MHz | 2562.5 MHz | |
| | 15MHz | RX | Channel 2825 | Channel 3100 | Channel 3375 | |
| | | IVA | 2627.5 MHz | 2655 MHz | 2682.5 MHz | |
| | | | Channel 20850 | Channel 21100 | Channel 21350 | |
| | | TX | 2510 MHz | 2535 MHz | 2560 MHz | |
| | 20MHz | RX | Channel 2850 | Channel 3100 | Channel 3350 | |
| | | INΛ | 2630 MHz | 2655 MHz | 2680 MHz | |

| Toot Made | Dondwidth | TV / DV | | RF Channel | |
|-------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 23017 | Channel 23095 | Channel 23173 |
| | | TX | 699.7 MHz | 707.5 MHz | 715.3 MHz |
| | 1.4MHz | RX | Channel 5017 | Channel 5095 | Channel 5173 |
| | | NA | 729.7 MHz | 737.5 MHz | 745.3 MHz |
| | | | Channel 23025 | Channel 23095 | Channel 23165 |
| | 3MHz | TX | 700.5 MHz | 707.5 MHz | 714.5 MHz |
| | | RX | Channel 5025 | Channel 5095 | Channel 5165 |
| LTE Day 140 | | | 730.5 MHz | 737.5 MHz | 744.5 MHz |
| LTE Band 12 | | TX | Channel 23035 | Channel 23095 | Channel 23155 |
| | | | 701.5 MHz | 707.5 MHz | 713.5 MHz |
| | 5MHz | RX | Channel 5035 | Channel 5095 | Channel 5155 |
| | | KX | 731.5 MHz | 737.5 MHz | 743.5 MHz |
| | | | Channel 23060 | Channel 23095 | Channel 23130 |
| | | TX | 704 MHz | 707.5 MHz | 711 MHz |
| | 10MHz | RX | Channel 5060 | Channel 5095 | Channel 5130 |
| | | IXA | 734 MHz | 737.5 MHz | 741 MHz |

| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
|--------------|-------------|---------|---------------|---------------|---------------|--|
| rest Mode | Dariuwiuiii | IA/NA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 23755 | Channel 23790 | Channel 23825 | |
| | | TX | 706.5 MHz | 710 MHz | 713.5 MHz | |
| | 5MHz | RX | Channel 5755 | Channel 5790 | Channel 5825 | |
| LTE Band 17 | | | 736.5 MHz | 740 MHz | 743.5 MHz | |
| LIE Dallu II | 10MHz | TX | Channel 23780 | Channel 23790 | Channel 23800 | |
| | | | 709 MHz | 710 MHz | 711 MHz | |
| | | DV | Channel 5780 | Channel 5790 | Channel 5800 | |
| | | RX | 739 MHz | 740 MHz | 741 MHz | |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 21 of 57

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|--------------|-------------|---------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
| i est ivioue | Dariuwiuiii | IA/NA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 26697 | Channel 26740 | Channel 26783 | |
| | | TX | 814.7 MHz | 819 MHz | 823.3 MHz | |
| | 1.4MHz | RX | Channel 8697 | Channel 8740 | Channel 8783 | |
| | | KA | 859.7 MHz | 864MHz | 868.3 MHz | |
| | | | Channel 26705 | Channel 26740 | Channel 26775 | |
| | 3MHz | TX | 815.5 MHz | 819 MHz | 822.5 MHz | |
| | | RX | Channel 8705 | Channel 8740 | Channel 8775 | |
| LTE Band 26 | | | 860.5 MHz | 864MHz | 867.5 MHz | |
| (814-824) | | TX | Channel 26715 | Channel 26740 | Channel 26765 | |
| (011 02 1) | | | 816.5 MHz | 819 MHz | 821.5 MHz | |
| | 5MHz | RX | Channel 8715 | Channel 8740 | Channel 8755 | |
| | | | 861.5 MHz | 864MHz | 866.5 MHz | |
| | | | Channel 26740 | Channel 26740 | Channel 26740 | |
| | | TX | 819 MHz | 819 MHz | 819 MHz | |
| | 10MHz | DV | Channel 8740 | Channel 8740 | Channel 8740 | |
| | | RX | 864MHz | 864MHz | 864MHz | |

| Took Mode | Donado de la dela | TV / DV | | RF Channel | |
|--------------|-------------------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 26797 | Channel 26915 | Channel 27033 |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz |
| | 1.4MHz | RX | Channel 8697 | Channel 8915 | Channel 9033 |
| | | NA | 859.7 MHz | 881.5 MHz | 893.3 MHz |
| | | | Channel 26805 | Channel 26915 | Channel 27025 |
| | 0.111 | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz |
| | 3MHz | RX | Channel 8805 | Channel 8915 | Channel 9025 |
| | | IXX | 860.5 MHz | 881.5 MHz | 892.5 MHz |
| | 5MHz | TX | Channel 26815 | Channel 26915 | Channel 27015 |
| LTE Band26 | | | 826.5 MHz | 836.5 MHz | 846.5 MHz |
| (824-849) | | RX | Channel 8815 | Channel 8915 | Channel 9015 |
| (= : : : :) | | | 871.5 MHz | 881.5 MHz | 891.5 MHz |
| | | TX | Channel 26840 | Channel 26915 | Channel 26990 |
| | | | 829 MHz | 836.5 MHz | 844 MHz |
| | 10MHz | RX | Channel 8840 | Channel 8915 | Channel 8990 |
| | | INA | 874 MHz | 881.5 MHz | 889 MHz |
| | | | Channel 26865 | Channel 26915 | Channel 26965 |
| | | TX | 831.5 MHz | 836.5 MHz | 841.5 MHz |
| | 15MHz | RX | Channel 8865 | Channel 8915 | Channel 8965 |
| | | KΛ | 876.5 MHz | 881.5 MHz | 886.5 MHz |



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Report No.: SUHR/2021/C000102

Rev.: 01 22 of 57 Page:

| Took Mode | Donadu i alth | TV / DV | | RF Channel | |
|------------|---------------|---------|----------------|----------------|----------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 131979 | Channel 132322 | Channel 132665 |
| | | TX | 1710.7 MHz | 1745 MHz | 1779.3 MHz |
| | 1.4MHz | RX | Channel 66443 | Channel 66786 | Channel 67329 |
| | | KA. | 2110.7 MHz | 2145MHz | 2199.3 MHz |
| | | | Channel 131987 | Channel 132322 | Channel 132657 |
| | | TX | 1711.5 MHz | 1745 MHz | 1778.5MHz |
| | 3MHz | RX | Channel 66451 | Channel 66786 | Channel 67321 |
| | | KA | 2111.5 MHz | 2145MHz | 2198.5MHz |
| | | | Channel 131997 | Channel 132322 | Channel 132647 |
| | | TX | 1712.5 MHz | 1745 MHz | 1777.5 MHz |
| | 5MHz | RX | Channel 66461 | Channel 66786 | Channel 67311 |
| LTC DondCC | | | 2112.5 MHz | 2145MHz | 2197.5 MHz |
| LTE Band66 | 10MHz | TX | Channel 132022 | Channel 132322 | Channel 132622 |
| | | | 1715 MHz | 1745 MHz | 1775 MHz |
| | | RX | Channel 66486 | Channel 66786 | Channel 67286 |
| | | | 2115 MHz | 2145MHz | 2195 MHz |
| | | | Channel 132047 | Channel 132322 | Channel 132597 |
| | | TX | 1717.5 MHz | 1745 MHz | 1772.5 MHz |
| | 15MHz | RX | Channel 66511 | Channel 66786 | Channel 67261 |
| | | 100 | 2117.5 MHz | 2145MHz | 2192.5 MHz |
| | | | Channel 132072 | Channel 132322 | Channel 132572 |
| | | TX | 1720 MHz | 1745 MHz | 1770 MHz |
| | 20MHz | RX | Channel 66536 | Channel 66786 | Channel 67236 |
| | | KΛ | 2120 MHz | 2145MHz | 2190 MHz |



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Report No.: SUHR/2021/C000102

Rev.: 01

Page: 23 of 57

4. Description of Tests

4.1 Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 24 of 57

4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

Measurement Procedure: FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dB \(\psi \)V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)

EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

ERP = EIRP - 2.15 (dB); where ERP and EIRP are expressed in consistent units.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dB μ V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)

EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark: Reference test setup 2



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 25 of 57

4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 26 of 57

4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 27 of 57

4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

- Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 28 of 57

4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 29 of 57

4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dB μ V/m) = Measured amplitude level (μ V/m) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB))

EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dB μ V/m) = Measured amplitude level (μ V/m) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance.

Remark: Reference test setup 2

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

Final Test Level = Receiver Reading + Factor(Antenna Factor + Cable Factor - Preamplifier Factor)

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) All modes have been tested, but only the worst case data displayed in this report.





Report No.: SUHR/2021/C000102

Rev.: 01 Page: 30 of 57

4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

- . The frequency stability of the transmitter is measured by:
- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



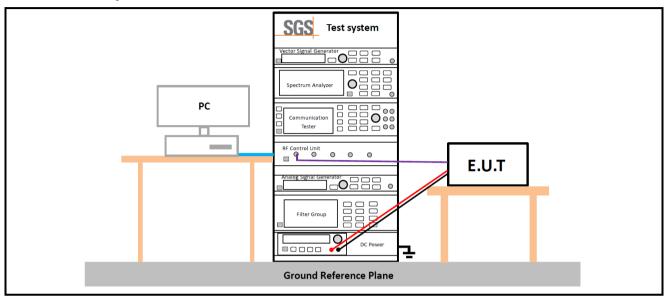


Report No.: SUHR/2021/C000102

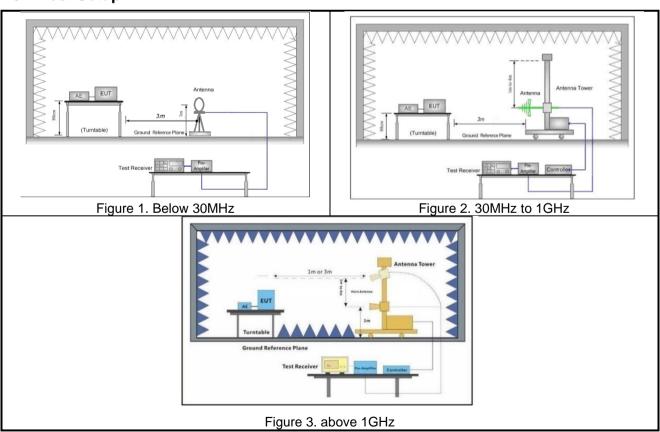
Rev.: 01 Page: 31 of 57

4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2





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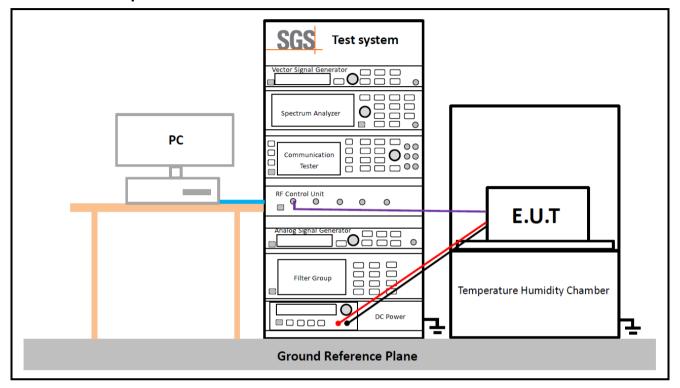
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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 32 of 57

4.9.3 Test Setup 3





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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 33 of 57

4.10 Test Conditions

| Test Case |) | Test Condi | tions | | |
|--------------------------|----------------------|-------------------------|--|--|--|
| | | Test Environm ent | Ambient Climate & Rated Voltage | | |
| | Average Power, | Test Setup | Test Setup 1 | | |
| Transmit | Total | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | |
| Output | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 | | |
| Power Data | Average Power, | Test Environm ent | Ambient Climate & Rated Voltage | | |
| | Spectral Density | Test Setup | Test Setup 1 | | |
| | (if required) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 | | |
| | | Test Environm ent | Ambient Climate & Rated Voltage | | |
| Peak-to-A | verage | Test Setup | Test Setup 1 | | |
| (if required | d) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) | | |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 | | |
| | | Test Environm ent | Ambient Climate & Rated Voltage | | |
| Modulation Characteri | Modulation | | Test Setup 1 | | |
| Onaracteri | 151165 | RF Channels (TX) | M (M= middle channel) | | |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 | | |
| Bandwid | Occupie | Test | Ambient Climate & Rated Voltage | | |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 34 of 57

| | | | Page: 34 of 57 |
|--------------------------------------|----------------------|-------------------------|--|
| th | d Bandwid | Environm ent | |
| | th | Test Setup | Test Setup 1 |
| | | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | Emissio n | Test Environm ent | Ambient Climate & Rated Voltage |
| | Bandwid th | Test Setup | Test Setup 1 |
| | (if required) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | | | Ambient Climate & Rated Voltage |
| Band Edg | | Test Setup | Test Setup 1 |
| Compilant | Æ | RF Channels (TX) | L, H (L= low channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | | Test Environm ent | Ambient Climate & Rated Voltage |
| Spurious E at Antenna | | Test Setup | Test Setup 1 |
| Terminals | | RF Channels (TX) | L,M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;UMTS/TM1; LTE/TM1; |
| Field Strength of Spurious Radiation | | Test Environm ent | Ambient Climate & Rated Voltage |
| - Ориноиз п | adiation | Test Setup | Test Setup 2 |



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 35 of 57

| | | . age. 33 3. 3. |
|---------------------|-------------------------|--|
| | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected. |
| | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | Test Environm ent | (1) -10 °C to +55 °C with step 10 °C at Rated Voltage; (2) VL, VN and VH of Rated Voltage at Ambient Climate. |
| Frequency Stability | Test Setup | Test Setup 3 |
| | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |



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Report No.: SUHR/2021/C000102

Rev.: 01

Page: 36 of 57

5. Main Test Instruments

| | 9*6*6 Test Equipment | | | | | | | |
|---|-----------------------------------|-------------|---------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/5/8 | 2024/5/7 | | | |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2021/2/20 | 2022/2/19 | | | |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2021/5/28 | 2022/5/27 | | | |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2021/2/20 | 2022/2/19 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/5/16 | 2022/5/15 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/5/16 | 2022/5/15 | | | |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2021/5/14 | 2022/5/13 | | | |
| Active Loop Antenna | SCHWRZBECK MESS- ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2021/6/10 | 2022/6/9 | | | |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2021/2/20 | 2022/2/19 | | | |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2021/2/20 | 2022/2/19 | | | |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2021/2/20 | 2022/2/19 | | | |
| Wideband Radio Communication Tester | Anritsu | MT8820C | SUWI-01-16-08 | 2021/2/20 | 2022/2/19 | | | |
| Wideband Radio Communication Tester | Anritsu | MT8821C | SUWI-01-26-03 | 2021/12/4/ | 2022/12/3 | | | |





Report No.: SUHR/2021/C000102

Rev.: 01

Page: 37 of 57

6. Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

| No. | ltem | Measurement Uncertainty |
|-----|-------------------|-------------------------|
| | | ± 3.13dB (9k -30MHz) |
| 4 | Radiated Emission | ± 4.8dB (30M -1GHz) |
| ı | | ± 4.8dB (1GHz to 18GHz) |
| | | ± 4.80dB (Above 18GHz) |



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Report No.: SUHR/2021/C000102

Rev.: 01

Page: 38 of 57

7. Appendixes

| Appendix A | Setup Photos |
|------------|--------------|



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Report No.: SUHR/2021/C000102

Rev.:

Page: 39 of 57

Appendix



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 40 of 57

Radiated Spurious Emissions For GSM

Test Band = _GSM 1900 DOWN ANT Test Channel =Low Channel

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3700.4 | 48.13 | -110.79 | -62.66 | -13.00 | 49.66 | 265 | 314 | Horizontal | | | |
| 2 | 5550.6 | 50.98 | -107.45 | -56.47 | -13.00 | 43.47 | 235 | 193 | Horizontal | | | |
| 3 | 7400.8 | 50.78 | -102.18 | -51.40 | -13.00 | 38.40 | 145 | 193 | Horizontal | | | |
| 4 | 9251 | 46.43 | -97.12 | -50.69 | -13.00 | 37.69 | 288 | 266 | Horizontal | | | |
| 5 | 11101.2 | 44.36 | -94.13 | -49.77 | -13.00 | 36.77 | 297 | 206 | Horizontal | | | |
| 6 | 13700.25 | 46.86 | -91.37 | -44.51 | -13.00 | 31.51 | 150 | 122 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) +(Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 3700.4 | 51.96 | -110.79 | -58.83 | -13.00 | 45.83 | 224 | 339 | Vertical | | | | |
| 2 | 5550.6 | 50.35 | -107.45 | -57.10 | -13.00 | 44.10 | 365 | 16 | Vertical | | | | |
| 3 | 7400.8 | 49.90 | -102.18 | -52.28 | -13.00 | 39.28 | 298 | 172 | Vertical | | | | |
| 4 | 9251 | 47.42 | -97.12 | -49.70 | -13.00 | 36.70 | 348 | 27 | Vertical | | | | |
| 5 | 11101.2 | 45.07 | -94.13 | -49.06 | -13.00 | 36.06 | 147 | 360 | Vertical | | | | |
| 6 | 13672.5 | 47.69 | -91.32 | -43.63 | -13.00 | 30.63 | 250 | 231 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 41 of 57

Test Band = _GSM 1900 DOWN ANT Test Channel = Mid Channel

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3760 | 50.59 | -110.83 | -60.24 | -13.00 | 47.24 | 165 | 169 | Horizontal | | | |
| 2 | 5640 | 50.96 | -107.08 | -56.12 | -13.00 | 43.12 | 236 | 264 | Horizontal | | | |
| 3 | 7520 | 50.25 | -101.93 | -51.68 | -13.00 | 38.68 | 289 | 144 | Horizontal | | | |
| 4 | 9400 | 47.45 | -96.60 | -49.15 | -13.00 | 36.15 | 144 | 26 | Horizontal | | | |
| 5 | 11280 | 44.16 | -93.56 | -49.40 | -13.00 | 36.40 | 265 | 276 | Horizontal | | | |
| 6 | 14373.75 | 45.40 | -90.32 | -44.92 | -13.00 | 31.92 | 188 | 144 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3760 | 49.58 | -110.83 | -61.25 | -13.00 | 48.25 | 265 | 359 | Vertical | | | |
| 2 | 5640 | 50.34 | -107.08 | -56.74 | -13.00 | 43.74 | 358 | 62 | Vertical | | | |
| 3 | 7520 | 50.42 | -101.93 | -51.51 | -13.00 | 38.51 | 369 | 136 | Vertical | | | |
| 4 | 9400 | 47.74 | -96.60 | -48.86 | -13.00 | 35.86 | 157 | 242 | Vertical | | | |
| 5 | 11280 | 44.01 | -93.56 | -49.55 | -13.00 | 36.55 | 347 | 123 | Vertical | | | |
| 6 | 14379 | 45.63 | -90.25 | -44.62 | -13.00 | 31.62 | 251 | 348 | Vertical | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 42 of 57

Test Band = _GSM 1900 DOWN ANT Test Channel = High Channel

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3819.6 | 50.01 | -110.87 | -60.86 | -13.00 | 47.86 | 265 | 4 | Horizontal | | | |
| 2 | 5729.4 | 51.21 | -106.59 | -55.38 | -13.00 | 42.38 | 354 | 170 | Horizontal | | | |
| 3 | 7639.2 | 49.86 | -101.80 | -51.94 | -13.00 | 38.94 | 258 | 315 | Horizontal | | | |
| 4 | 9549 | 46.32 | -96.76 | -50.44 | -13.00 | 37.44 | 144 | 27 | Horizontal | | | |
| 5 | 11458.8 | 43.00 | -93.55 | -50.55 | -13.00 | 37.55 | 266 | 256 | Horizontal | | | |
| 6 | 14376.75 | 46.52 | -90.28 | -43.76 | -13.00 | 30.76 | 298 | 360 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 3819.6 | 50.47 | -110.87 | -60.40 | -13.00 | 47.40 | 365 | 193 | Vertical | | | | |
| 2 | 5729.4 | 51.33 | -106.59 | -55.26 | -13.00 | 42.26 | 288 | 146 | Vertical | | | | |
| 3 | 7639.2 | 49.97 | -101.80 | -51.83 | -13.00 | 38.83 | 299 | 359 | Vertical | | | | |
| 4 | 9549 | 45.91 | -96.76 | -50.85 | -13.00 | 37.85 | 145 | 38 | Vertical | | | | |
| 5 | 11458.8 | 43.81 | -93.55 | -49.74 | -13.00 | 36.74 | 256 | 50 | Vertical | | | | |
| 6 | 15810.75 | 45.44 | -90.23 | -44.79 | -13.00 | 31.79 | 378 | 159 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01

Page: 43 of 57

Test Band = _GSM 1900 UP ANT Test Channel = Low Channel

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3700.4 | 49.46 | -110.79 | -61.33 | -13.00 | 48.33 | 165 | 50 | Horizontal | | | |
| 2 | 5550.6 | 50.69 | -107.45 | -56.76 | -13.00 | 43.76 | 236 | 4 | Horizontal | | | |
| 3 | 7400.8 | 49.86 | -102.18 | -52.32 | -13.00 | 39.32 | 245 | 121 | Horizontal | | | |
| 4 | 9251 | 46.86 | -97.12 | -50.26 | -13.00 | 37.26 | 285 | 326 | Horizontal | | | |
| 5 | 11101.2 | 45.17 | -94.13 | -48.96 | -13.00 | 35.96 | 391 | 62 | Horizontal | | | |
| 6 | 13727.25 | 46.80 | -91.46 | -44.66 | -13.00 | 31.66 | 203 | 144 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3700.4 | 52.50 | -110.79 | -58.29 | -13.00 | 45.29 | 165 | 4 | Vertical | | | |
| 2 | 5550.6 | 50.88 | -107.45 | -56.57 | -13.00 | 43.57 | 235 | 172 | Vertical | | | |
| 3 | 7400.8 | 50.03 | -102.18 | -52.15 | -13.00 | 39.15 | 185 | 124 | Vertical | | | |
| 4 | 9251 | 47.33 | -97.12 | -49.79 | -13.00 | 36.79 | 222 | 316 | Vertical | | | |
| 5 | 11101.2 | 43.97 | -94.13 | -50.16 | -13.00 | 37.16 | 296 | 339 | Vertical | | | |
| 6 | 13699.5 | 47.38 | -91.36 | -43.98 | -13.00 | 30.98 | 221 | 304 | Vertical | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 44 of 57

Test Band = _GSM 1900 UP ANT Test Channel = Mid Channel

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 3760 | 49.28 | -110.83 | -61.55 | -13.00 | 48.55 | 265 | 172 | Horizontal | | | | |
| 2 | 5640 | 51.88 | -107.08 | -55.20 | -13.00 | 42.20 | 185 | 183 | Horizontal | | | | |
| 3 | 7520 | 49.70 | -101.93 | -52.23 | -13.00 | 39.23 | 221 | 62 | Horizontal | | | | |
| 4 | 9400 | 47.45 | -96.60 | -49.15 | -13.00 | 36.15 | 325 | 147 | Horizontal | | | | |
| 5 | 11280 | 44.42 | -93.56 | -49.14 | -13.00 | 36.14 | 174 | 26 | Horizontal | | | | |
| 6 | 13748.25 | 47.17 | -91.53 | -44.36 | -13.00 | 31.36 | 296 | 196 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 3760 | 50.85 | -110.83 | -59.98 | -13.00 | 46.98 | 165 | 135 | Vertical | | | |
| 2 | 5640 | 50.67 | -107.08 | -56.41 | -13.00 | 43.41 | 235 | 359 | Vertical | | | |
| 3 | 7520 | 50.03 | -101.93 | -51.90 | -13.00 | 38.90 | 185 | 254 | Vertical | | | |
| 4 | 9400 | 48.17 | -96.60 | -48.43 | -13.00 | 35.43 | 296 | 256 | Vertical | | | |
| 5 | 11280 | 43.88 | -93.56 | -49.68 | -13.00 | 36.68 | 331 | 301 | Vertical | | | |
| 6 | 14374.5 | 45.49 | -90.31 | -44.82 | -13.00 | 31.82 | 241 | 118 | Vertical | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 45 of 57

Test Band = _GSM 1900 UP ANT Test Channel = High Channel

| Data | List | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3819.6 | 54.97 | -110.87 | -55.90 | -13.00 | 42.90 | 165 | 337 | Horizontal |
| 2 | 5729.4 | 51.04 | -106.59 | -55.55 | -13.00 | 42.55 | 256 | 313 | Horizontal |
| 3 | 7639.2 | 49.89 | -101.80 | -51.91 | -13.00 | 38.91 | 324 | 266 | Horizontal |
| 4 | 9549 | 45.29 | -96.76 | -51.47 | -13.00 | 38.47 | 185 | 354 | Horizontal |
| 5 | 11458.8 | 44.38 | -93.55 | -49.17 | -13.00 | 36.17 | 203 | 290 | Horizontal |
| 6 | 13693.5 | 46.38 | -91.35 | -44.97 | -13.00 | 31.97 | 222 | 64 | Horizontal |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 3819.6 | 56.85 | -110.87 | -54.02 | -13.00 | 41.02 | 165 | 351 | Vertical | | | | |
| 2 | 5729.25 | 56.43 | -106.59 | -50.16 | -13.00 | 37.16 | 150 | 245 | Vertical | | | | |
| 3 | 7639.2 | 49.30 | -101.80 | -52.50 | -13.00 | 39.50 | 144 | 316 | Vertical | | | | |
| 4 | 9549 | 46.46 | -96.76 | -50.30 | -13.00 | 37.30 | 357 | 293 | Vertical | | | | |
| 5 | 11458.8 | 42.94 | -93.55 | -50.61 | -13.00 | 37.61 | 285 | 196 | Vertical | | | | |
| 6 | 13679.25 | 47.74 | -91.33 | -43.59 | -13.00 | 30.59 | 140 | 360 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 46 of 57

For WCDMA

Test Band = WCDMA _Band _II TM1 DOWN ANT Test Channel = Low Channel

| | 1001 0114111101 - 2011 0114111101 | | | | | | | | | | | |
|------|-----------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|--|--|--|
| Data | List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 1652.8 | 49.04 | -118.10 | -69.06 | -13.00 | 56.06 | 165 | 12 | Horizontal | | | |
| 2 | 2479.2 | 52.93 | -114.86 | -61.93 | -13.00 | 48.93 | 258 | 104 | Horizontal | | | |
| 3 | 3305.6 | 51.88 | -112.38 | -60.50 | -13.00 | 47.50 | 145 | 208 | Horizontal | | | |
| 4 | 4132 | 51.12 | -110.18 | -59.06 | -13.00 | 46.06 | 236 | 281 | Horizontal | | | |
| 5 | 4958.4 | 52.77 | -108.21 | -55.44 | -13.00 | 42.44 | 288 | 360 | Horizontal | | | |
| 6 | 6709.1429 | 55.59 | -103.67 | -48.08 | -13.00 | 35.08 | 144 | 43 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1652.8 | 51.80 | -118.10 | -66.30 | -13.00 | 53.30 | 165 | 234 | Vertical | | | | |
| 2 | 2479.2 | 52.93 | -114.86 | -61.93 | -13.00 | 48.93 | 258 | 276 | Vertical | | | | |
| 3 | 3305.6 | 51.03 | -112.38 | -61.35 | -13.00 | 48.35 | 345 | 2 | Vertical | | | | |
| 4 | 4132 | 51.29 | -110.18 | -58.89 | -13.00 | 45.89 | 399 | 347 | Vertical | | | | |
| 5 | 4958.4 | 51.63 | -108.21 | -56.58 | -13.00 | 43.58 | 247 | 356 | Vertical | | | | |
| 6 | 6308 | 55.85 | -105.45 | -49.60 | -13.00 | 36.60 | 152 | 5 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 47 of 57

Test Band = WCDMA _Band _II TM1 DOWN ANT Test Channel = Mid Channel

| | 100t Gilamior – mid Gilamior | | | | | | | | | | | |
|------|------------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| Data | List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 1672.8 | 47.84 | -118.07 | -70.23 | -13.00 | 57.23 | 265 | 320 | Horizontal | | | |
| 2 | 2509.2 | 52.00 | -114.69 | -62.69 | -13.00 | 49.69 | 358 | 63 | Horizontal | | | |
| 3 | 3345.6 | 50.98 | -112.38 | -61.40 | -13.00 | 48.40 | 144 | 359 | Horizontal | | | |
| 4 | 4182 | 51.00 | -110.14 | -59.14 | -13.00 | 46.14 | 298 | 207 | Horizontal | | | |
| 5 | 5018.4 | 52.87 | -108.10 | -55.23 | -13.00 | 42.23 | 378 | 358 | Horizontal | | | |
| 6 | 7606.8571 | 54.59 | -101.82 | -47.23 | -13.00 | 34.23 | 203 | 207 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | List | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1672.8 | 50.94 | -118.07 | -67.13 | -13.00 | 54.13 | 198 | 62 | Vertical |
| 2 | 2509.2 | 52.95 | -114.69 | -61.74 | -13.00 | 48.74 | 285 | 347 | Vertical |
| 3 | 3345.6 | 51.28 | -112.38 | -61.10 | -13.00 | 48.10 | 344 | 52 | Vertical |
| 4 | 4182 | 50.99 | -110.14 | -59.15 | -13.00 | 46.15 | 106 | 153 | Vertical |
| 5 | 5018.4 | 52.51 | -108.10 | -55.59 | -13.00 | 42.59 | 208 | 306 | Vertical |
| 6 | 7303.4286 | 54.64 | -102.18 | -47.54 | -13.00 | 34.54 | 391 | 6 | Vertical |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 48 of 57

Test Band = WCDMA _Band _II TM1 DOWN ANT Test Channel = High Channel

| | 100t Griannor – ringir Griannor | | | | | | | | | | | |
|------|---------------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| Data | List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 1693.2 | 49.26 | -118.04 | -68.78 | -13.00 | 55.78 | 256 | 166 | Horizontal | | | |
| 2 | 2539.8 | 52.23 | -114.49 | -62.26 | -13.00 | 49.26 | 354 | 155 | Horizontal | | | |
| 3 | 3386.4 | 50.96 | -112.37 | -61.41 | -13.00 | 48.41 | 158 | 355 | Horizontal | | | |
| 4 | 4233 | 52.07 | -109.99 | -57.92 | -13.00 | 44.92 | 203 | 12 | Horizontal | | | |
| 5 | 5079.6 | 52.87 | -107.80 | -54.93 | -13.00 | 41.93 | 265 | 166 | Horizontal | | | |
| 6 | 7808.5714 | 54.23 | -101.08 | -46.85 | -13.00 | 33.85 | 288 | 94 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1693.2 | 49.24 | -118.04 | -68.80 | -13.00 | 55.80 | 165 | 244 | Vertical | | | | |
| 2 | 2539.8 | 52.56 | -114.49 | -61.93 | -13.00 | 48.93 | 260 | 112 | Vertical | | | | |
| 3 | 3386.4 | 51.63 | -112.37 | -60.74 | -13.00 | 47.74 | 185 | 82 | Vertical | | | | |
| 4 | 4233 | 51.11 | -109.99 | -58.88 | -13.00 | 45.88 | 223 | 255 | Vertical | | | | |
| 5 | 5079.6 | 52.57 | -107.80 | -55.23 | -13.00 | 42.23 | 248 | 23 | Vertical | | | | |
| 6 | 7192 | 54.56 | -102.58 | -48.02 | -13.00 | 35.02 | 123 | 336 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 49 of 57

Test Band = WCDMA _Band _II TM1 UP ANT Test Channel = Low Channel

| | 100t Onamior – Low Onamior | | | | | | | | | | | |
|------|----------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| Data | List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 1652.8 | 47.84 | -118.10 | -70.26 | -13.00 | 57.26 | 152 | 126 | Horizontal | | | |
| 2 | 2479.2 | 52.43 | -114.86 | -62.43 | -13.00 | 49.43 | 365 | 94 | Horizontal | | | |
| 3 | 3305.6 | 51.43 | -112.38 | -60.95 | -13.00 | 47.95 | 254 | 260 | Horizontal | | | |
| 4 | 4132 | 52.16 | -110.18 | -58.02 | -13.00 | 45.02 | 185 | 300 | Horizontal | | | |
| 5 | 4958.4 | 52.87 | -108.21 | -55.34 | -13.00 | 42.34 | 239 | 94 | Horizontal | | | |
| 6 | 7760.5714 | 54.30 | -101.45 | -47.15 | -13.00 | 34.15 | 144 | 360 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1652.8 | 48.18 | -118.10 | -69.92 | -13.00 | 56.92 | 185 | 285 | Vertical | | | | |
| 2 | 2479.2 | 53.24 | -114.86 | -61.62 | -13.00 | 48.62 | 235 | 233 | Vertical | | | | |
| 3 | 3305.6 | 51.17 | -112.38 | -61.21 | -13.00 | 48.21 | 158 | 1 | Vertical | | | | |
| 4 | 4132 | 51.49 | -110.18 | -58.69 | -13.00 | 45.69 | 369 | 244 | Vertical | | | | |
| 5 | 4958.4 | 53.93 | -108.21 | -54.28 | -13.00 | 41.28 | 145 | 163 | Vertical | | | | |
| 6 | 7194.2857 | 55.99 | -102.56 | -46.57 | -13.00 | 33.57 | 221 | 336 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 50 of 57

Test Band = WCDMA _Band _II TM1 UP ANT Test Channel = Mid Channel

| | rest Ghanner – inia Ghanner | | | | | | | | | | | | |
|------|-----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|--|--|--|--|
| Data | List | | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1672.8 | 48.24 | -118.07 | -69.83 | -13.00 | 56.83 | 165 | 145 | Horizontal | | | | |
| 2 | 2509.2 | 52.84 | -114.69 | -61.85 | -13.00 | 48.85 | 235 | 360 | Horizontal | | | | |
| 3 | 3345.6 | 51.36 | -112.38 | -61.02 | -13.00 | 48.02 | 145 | 355 | Horizontal | | | | |
| 4 | 4182 | 51.06 | -110.14 | -59.08 | -13.00 | 46.08 | 225 | 207 | Horizontal | | | | |
| 5 | 5018.4 | 53.03 | -108.10 | -55.07 | -13.00 | 42.07 | 288 | 54 | Horizontal | | | | |
| 6 | 8302.8571 | 55.02 | -100.20 | -45.18 | -13.00 | 32.18 | 220 | 218 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1672.8 | 49.38 | -118.07 | -68.69 | -13.00 | 55.69 | 165 | 154 | Vertical | | | | |
| 2 | 2509.2 | 52.43 | -114.69 | -62.26 | -13.00 | 49.26 | 235 | 204 | Vertical | | | | |
| 3 | 3345.6 | 51.63 | -112.38 | -60.75 | -13.00 | 47.75 | 188 | 356 | Vertical | | | | |
| 4 | 4182 | 51.82 | -110.14 | -58.32 | -13.00 | 45.32 | 296 | 307 | Vertical | | | | |
| 5 | 5018.4 | 52.26 | -108.10 | -55.84 | -13.00 | 42.84 | 156 | 307 | Vertical | | | | |
| 6 | 7177.1429 | 55.70 | -102.67 | -46.97 | -13.00 | 33.97 | 222 | 113 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 51 of 57

Test Band = WCDMA _Band _II TM1 UP ANT Test Channel = High Channel

| | rest Ghamer - riigh Ghamer | | | | | | | | | | | | |
|------|----------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| Data | Data List | | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1693.2 | 49.76 | -118.04 | -68.28 | -13.00 | 55.28 | 150 | 12 | Horizontal | | | | |
| 2 | 2539.8 | 53.13 | -114.49 | -61.36 | -13.00 | 48.36 | 150 | 259 | Horizontal | | | | |
| 3 | 3386.4 | 50.81 | -112.37 | -61.56 | -13.00 | 48.56 | 150 | 3 | Horizontal | | | | |
| 4 | 4233 | 52.02 | -109.99 | -57.97 | -13.00 | 44.97 | 150 | 279 | Horizontal | | | | |
| 5 | 5079.6 | 51.63 | -107.80 | -56.17 | -13.00 | 43.17 | 150 | 360 | Horizontal | | | | |
| 6 | 7700 | 55.30 | -102.02 | -46.72 | -13.00 | 33.72 | 150 | 358 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 1693.2 | 50.97 | -118.04 | -67.07 | -13.00 | 54.07 | 165 | 162 | Vertical | | | | |
| 2 | 2539.8 | 52.97 | -114.49 | -61.52 | -13.00 | 48.52 | 236 | 317 | Vertical | | | | |
| 3 | 3386.4 | 51.66 | -112.37 | -60.71 | -13.00 | 47.71 | 255 | 235 | Vertical | | | | |
| 4 | 4233 | 51.41 | -109.99 | -58.58 | -13.00 | 45.58 | 185 | 327 | Vertical | | | | |
| 5 | 5079.6 | 53.49 | -107.80 | -54.31 | -13.00 | 41.31 | 226 | 348 | Vertical | | | | |
| 6 | 7129.1429 | 55.79 | -102.96 | -47.17 | -13.00 | 34.17 | 268 | 183 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 52 of 57

For LTE

Test Band = _LTE_Band_7 TM1 DOWN ANT Test Channel = Low Channel

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5002.18 | 50.91 | -108.01 | -57.10 | -25.00 | 32.10 | 185 | 95 | Horizontal | | | | |
| 2 | 7503.27 | 48.76 | -101.95 | -53.19 | -25.00 | 28.19 | 265 | 250 | Horizontal | | | | |
| 3 | 10004.36 | 47.22 | -96.00 | -48.78 | -25.00 | 23.78 | 325 | 66 | Horizontal | | | | |
| 4 | 12505.45 | 43.99 | -93.07 | -49.08 | -25.00 | 24.08 | 145 | 237 | Horizontal | | | | |
| 5 | 15006.54 | 41.41 | -90.70 | -49.29 | -25.00 | 24.29 | 368 | 130 | Horizontal | | | | |
| 6 | 17507.63 | 43.30 | -90.99 | -47.69 | -25.00 | 22.69 | 147 | 310 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5002.18 | 52.20 | -108.01 | -55.81 | -25.00 | 30.81 | 222 | 177 | Vertical | | | | |
| 2 | 7503.27 | 49.52 | -101.95 | -52.43 | -25.00 | 27.43 | 142 | 238 | Vertical | | | | |
| 3 | 10004.36 | 45.92 | -96.00 | -50.08 | -25.00 | 25.08 | 381 | 92 | Vertical | | | | |
| 4 | 12505.45 | 43.53 | -93.07 | -49.54 | -25.00 | 24.54 | 289 | 117 | Vertical | | | | |
| 5 | 15006.54 | 40.44 | -90.70 | -50.26 | -25.00 | 25.26 | 236 | 44 | Vertical | | | | |
| 6 | 17507.63 | 41.65 | -90.99 | -49.34 | -25.00 | 24.34 | 255 | 261 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 53 of 57

Test Band = _LTE_Band_7 TM1 DOWN ANT Test Channel = Mid Channel

| | 100t Gildillioi – Illia Gildillioi | | | | | | | | | | | |
|------|------------------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|
| Data | List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5052.18 | 50.75 | -107.85 | -57.10 | -25.00 | 32.10 | 265 | 129 | Horizontal | | | |
| 2 | 7578.27 | 50.54 | -101.83 | -51.29 | -25.00 | 26.29 | 321 | 81 | Horizontal | | | |
| 3 | 10104.36 | 46.03 | -95.74 | -49.71 | -25.00 | 24.71 | 254 | 202 | Horizontal | | | |
| 4 | 12630.45 | 43.81 | -93.26 | -49.45 | -25.00 | 24.45 | 269 | 255 | Horizontal | | | |
| 5 | 15156.54 | 41.30 | -90.62 | -49.32 | -25.00 | 24.32 | 385 | 309 | Horizontal | | | |
| 6 | 17682.63 | 41.49 | -89.09 | -47.60 | -25.00 | 22.60 | 102 | 5 | Horizontal | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5052.18 | 50.16 | -107.85 | -57.69 | -25.00 | 32.69 | 374 | 165 | Vertical | | | | |
| 2 | 7578.27 | 50.03 | -101.83 | -51.80 | -25.00 | 26.80 | 296 | 165 | Vertical | | | | |
| 3 | 10104.36 | 45.48 | -95.74 | -50.26 | -25.00 | 25.26 | 285 | 320 | Vertical | | | | |
| 4 | 12630.45 | 45.29 | -93.26 | -47.97 | -25.00 | 22.97 | 214 | 214 | Vertical | | | | |
| 5 | 15156.54 | 41.45 | -90.62 | -49.17 | -25.00 | 24.17 | 203 | 272 | Vertical | | | | |
| 6 | 17682.63 | 41.68 | -89.09 | -47.41 | -25.00 | 22.41 | 265 | 57 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 54 of 57

Test Band = _LTE_Band_7 TM1 DOWN ANT Test Channel = High Channel

| | 100t Griannor – ringir Griannor | | | | | | | | | | | | |
|------|---------------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| Data | Data List | | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5102.18 | 53.59 | -107.69 | -54.10 | -25.00 | 29.10 | 156 | 130 | Horizontal | | | | |
| 2 | 7653.27 | 50.66 | -101.80 | -51.14 | -25.00 | 26.14 | 320 | 245 | Horizontal | | | | |
| 3 | 10204.36 | 44.59 | -95.93 | -51.34 | -25.00 | 26.34 | 256 | 356 | Horizontal | | | | |
| 4 | 12755.45 | 45.04 | -92.47 | -47.43 | -25.00 | 22.43 | 385 | 345 | Horizontal | | | | |
| 5 | 15306.54 | 43.10 | -90.80 | -47.70 | -25.00 | 22.70 | 274 | 4 | Horizontal | | | | |
| 6 | 17857.63 | 42.25 | -88.58 | -46.33 | -25.00 | 21.33 | 150 | 130 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5102.18 | 53.01 | -107.69 | -54.68 | -25.00 | 29.68 | 140 | 190 | Vertical | | | | |
| 2 | 7653.27 | 48.92 | -101.80 | -52.88 | -25.00 | 27.88 | 360 | 333 | Vertical | | | | |
| 3 | 10204.36 | 45.61 | -95.93 | -50.32 | -25.00 | 25.32 | 285 | 190 | Vertical | | | | |
| 4 | 12755.45 | 44.11 | -92.47 | -48.36 | -25.00 | 23.36 | 214 | 34 | Vertical | | | | |
| 5 | 15306.54 | 42.36 | -90.80 | -48.44 | -25.00 | 23.44 | 356 | 118 | Vertical | | | | |
| 6 | 17857.63 | 43.08 | -88.58 | -45.50 | -25.00 | 20.50 | 185 | 285 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 55 of 57

Test Band = _LTE_Band_7 TM1 UP ANT Test Channel = Low Channel

| | 100t Gilainioi – Low Gilainioi | | | | | | | | | | | | |
|------|--------------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| Data | Data List | | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5002.18 | 50.54 | -108.01 | -57.47 | -25.00 | 32.47 | 196 | 128 | Horizontal | | | | |
| 2 | 7503.27 | 49.50 | -101.95 | -52.45 | -25.00 | 27.45 | 144 | 285 | Horizontal | | | | |
| 3 | 10004.36 | 45.00 | -96.00 | -51.00 | -25.00 | 26.00 | 285 | 345 | Horizontal | | | | |
| 4 | 12505.45 | 44.01 | -93.07 | -49.06 | -25.00 | 24.06 | 260 | 189 | Horizontal | | | | |
| 5 | 15006.54 | 41.54 | -90.70 | -49.16 | -25.00 | 24.16 | 145 | 212 | Horizontal | | | | |
| 6 | 17507.63 | 42.61 | -90.99 | -48.38 | -25.00 | 23.38 | 265 | 224 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5002.18 | 53.34 | -108.01 | -54.67 | -25.00 | 29.67 | 265 | 190 | Vertical | | | | |
| 2 | 7503.27 | 49.74 | -101.95 | -52.21 | -25.00 | 27.21 | 233 | 273 | Vertical | | | | |
| 3 | 10004.36 | 46.52 | -96.00 | -49.48 | -25.00 | 24.48 | 145 | 141 | Vertical | | | | |
| 4 | 12505.45 | 44.33 | -93.07 | -48.74 | -25.00 | 23.74 | 258 | 298 | Vertical | | | | |
| 5 | 15006.54 | 41.12 | -90.70 | -49.58 | -25.00 | 24.58 | 196 | 93 | Vertical | | | | |
| 6 | 17507.63 | 41.55 | -90.99 | -49.44 | -25.00 | 24.44 | 244 | 82 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 56 of 57

Test Band = LTE_Band_7 TM1 UP ANT Test Channel = Mid Channel

| | rest Ghanner – wild Ghanner | | | | | | | | | | | | |
|------|-----------------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|------------|--|--|--|--|
| Data | Data List | | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5052.18 | 51.10 | -107.85 | -56.75 | -25.00 | 31.75 | 152 | 93 | Horizontal | | | | |
| 2 | 7578.27 | 50.66 | -101.83 | -51.17 | -25.00 | 26.17 | 236 | 3 | Horizontal | | | | |
| 3 | 10104.36 | 45.03 | -95.74 | -50.71 | -25.00 | 25.71 | 254 | 310 | Horizontal | | | | |
| 4 | 12630.45 | 44.15 | -93.26 | -49.11 | -25.00 | 24.11 | 186 | 80 | Horizontal | | | | |
| 5 | 15156.54 | 42.03 | -90.62 | -48.59 | -25.00 | 23.59 | 296 | 0 | Horizontal | | | | |
| 6 | 17682.63 | 41.81 | -89.09 | -47.28 | -25.00 | 22.28 | 225 | 213 | Horizontal | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data | Data List | | | | | | | | | | | | |
|------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|--|--|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | |
| 1 | 5052.18 | 50.93 | -107.85 | -56.92 | -25.00 | 31.92 | 115 | 190 | Vertical | | | | |
| 2 | 7578.27 | 49.63 | -101.83 | -52.20 | -25.00 | 27.20 | 223 | 5 | Vertical | | | | |
| 3 | 10104.36 | 45.31 | -95.74 | -50.43 | -25.00 | 25.43 | 295 | 178 | Vertical | | | | |
| 4 | 12630.45 | 43.71 | -93.26 | -49.55 | -25.00 | 24.55 | 185 | 357 | Vertical | | | | |
| 5 | 15156.54 | 40.99 | -90.62 | -49.63 | -25.00 | 24.63 | 256 | 310 | Vertical | | | | |
| 6 | 17682.63 | 41.72 | -89.09 | -47.37 | -25.00 | 22.37 | 236 | 250 | Vertical | | | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters



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Report No.: SUHR/2021/C000102

Rev.: 01 Page: 57 of 57

Test Band = LTE_Band_7 TM1 UP ANT Test Channel = High Channel

| root onalinor - riigii onalinor | | | | | | | | | | | |
|---------------------------------|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|--|--|
| Data List | | | | | | | | | | | |
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5102.18 | 54.71 | -107.69 | -52.98 | -25.00 | 27.98 | 265 | 120 | Horizontal | | |
| 2 | 7653.27 | 50.34 | -101.80 | -51.46 | -25.00 | 26.46 | 225 | 168 | Horizontal | | |
| 3 | 10204.36 | 46.50 | -95.93 | -49.43 | -25.00 | 24.43 | 152 | 179 | Horizontal | | |
| 4 | 12755.45 | 46.14 | -92.47 | -46.33 | -25.00 | 21.33 | 339 | 107 | Horizontal | | |
| 5 | 15306.54 | 43.05 | -90.80 | -47.75 | -25.00 | 22.75 | 185 | 156 | Horizontal | | |
| 6 | 17857.63 | 42.24 | -88.58 | -46.34 | -25.00 | 21.34 | 155 | 6 | Horizontal | | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

| Data List | | | | | | | | | | |
|-----------|--------------------|-------------------|----------------|----------------|----------------|----------------|-------------|--------------|----------|--|
| NO. | Frequency [MHz] | Reading [dBµV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 5102.18 | 55.00 | -107.69 | -52.69 | -25.00 | 27.69 | 106 | 211 | Vertical | |
| 2 | 7653.27 | 50.70 | -101.80 | -51.10 | -25.00 | 26.10 | 288 | 235 | Vertical | |
| 3 | 10204.36 | 44.89 | -95.93 | -51.04 | -25.00 | 26.04 | 236 | 155 | Vertical | |
| 4 | 12755.45 | 44.12 | -92.47 | -48.35 | -25.00 | 23.35 | 174 | 44 | Vertical | |
| 5 | 15306.54 | 43.62 | -90.80 | -47.18 | -25.00 | 22.18 | 258 | 114 | Vertical | |
| 6 | 17857.63 | 43.42 | -88.58 | -45.16 | -25.00 | 20.16 | 265 | 56 | Vertical | |

Remark: EIRP (dBm) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP Gain + 20 log D - 104.8) Factor; where D is the measurement distance in meters

The End



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