Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



8DPSK Highest Channel





Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



11. Antenna Application

11.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

11.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is 0 dBi. So, the antenna is consider meet the requirement.

Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



12. Conducted Spurious Emissions

12.1 Measurement Procedure

Out of Band Conducted Spurious Emissions, FCC Rule 15.247(d):

The transmitter output is connected to spectrum analyzer. All spurious emission and up to the tenth harmonic was measured and they were found to be at least 20dB below the highest level of the desired power in the passband.

12.2. Measurement Results

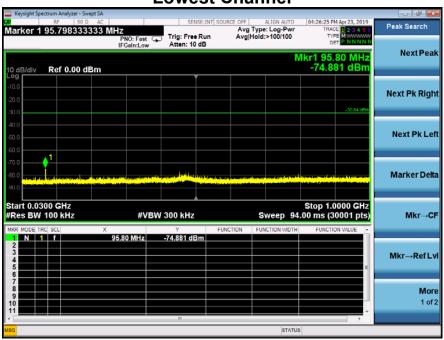
Please refer to following plots, the worst case (**GFSK**) was shown.

Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



Lowest Channel



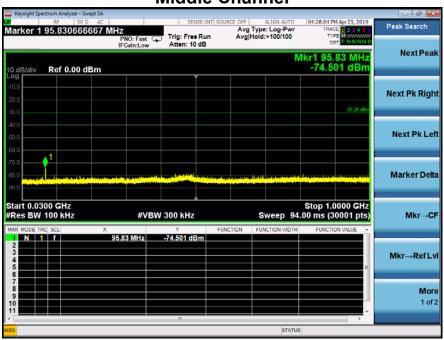


Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



Middle Channel



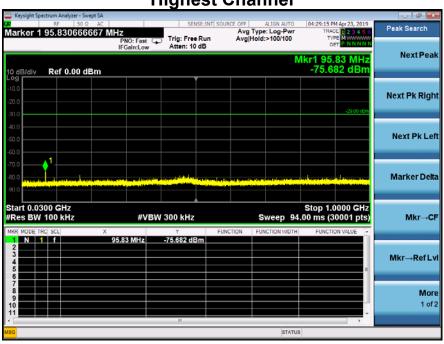


Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



Highest Channel





Note: Sweep points=30001pts

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



13. Test Equipment List

| Description | Manufacturer | Model Number | Serial Number | Characteristics | Calibration Date | Calibration Due Date |
|-----------------------------------|-----------------|--------------|------------------|-----------------|---------------------|----------------------|
| Test Receiver | Rohde & Schwarz | ESCI7 | 100837 | 9KHz~7GHz | Mar. 13, 2019 | Mar. 12, 2020 |
| Antenna | Schwarzbeck | VULB9162 | 9162-010 | 30MHz~7GHz | Mar. 14, 2019 | Mar. 13, 2020 |
| Cable | Huber+Suhner | CBL2-NN-1M | 22390001 | 9KHz~7GHz | Mar. 13, 2019 | Mar. 12, 2020 |
| Cable | Huber+Suhner | CIL02 | N/A | 9KHz~7GHz | Mar. 13, 2019 | Mar. 12, 2020 |
| RF Cable | Huber+Suhner | SF-104 | MY16559/4 | 9KHz~25GHz | Apr. 25, 2019 | Apr. 25, 2020 |
| Power Amplifier | HP | HP 8447D | 1145A00203 | 100KHz~1.3GHz | Mar. 13, 2019 | Mar. 12, 2020 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-242 | 15GHz~40GHz | Mar. 13, 2019 | Mar. 12, 2020 |
| Horn Antenna | Com-Power | AH-118 | 071078 | 1GHz~18GHz | Mar. 14, 2019 | Mar. 13, 2020 |
| RF Cable | Huber+Suhner | SF-104 | N/A | 9KHz~40GHz | Apr. 25, 2019 | Apr. 25, 2020 |
| Loop antenna | Daze | ZA30900A | 0708 | 9KHz~30MHz | Apr. 25, 2019 | Apr. 25, 2020 |
| Spectrum Analyzer | Rohde & Schwarz | FSU26 | 200409/026 | 20Hz~26.5GHz | Apr. 25, 2019 | Apr. 25, 2020 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101003 | 10Hz~40GHz | Apr. 06, 2019 | Apr. 05, 2020 |
| Pre-Amplifier | EMCI | EMC 184045 | 980102 | 18GHz~40GHz | Nov. 02, 2018 | Nov. 01, 2019 |
| Pre-Amplifier | Agilent | 8449B | 3008A02964 | 1GHz~26.5GHz | Apr. 25, 2019 | Apr. 25, 2020 |
| L.I.S.N. | Rohde & Schwarz | ENV 216 | 101317 | 9KHz~30MHz | Mar. 13, 2019 | Mar. 12, 2020 |
| Temporary antenna connector | TESCOM | SS402 | N/A | 9KHz-25GHz | N/A | N/A |
| Power Meter | Anritsu | ML2495A | 1139001 | 100k-65GHz | Nov. 02, 2018 | Nov. 01, 2019 |
| Power Sensor | Anritsu | MA2411B | 100345 | 300M-40GHz | Nov. 02, 2018 | Nov. 01, 2019 |

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna coSnnector is listed in the equipment list.