

Test result and instruments about Type certificate

Bluetooth BR/EDR

1. General

| | | | |
|--|--|---------|--------------------|
| Model name | NA-393 | Date | 22 December 2020 |
| Serial number | A1 | Place | SSS Hong Kong Ltd. |
| Class of emissions, Assigned frequency and Antenna power | F1D, G1D 2441MHz 0.000019W/MHz - 0.000075W/MHz | Remarks | |

2. Measuring Instruments

| Equipment type | Model number | Serial number | Manufacturer | Calibrated Date | Calibration Authority | Remarks |
|-----------------|--------------|---------------|-----------------|-----------------|-----------------------|---------|
| Signal Analyzer | FSV40 | 101418 | ROHDE & SCHWARZ | 8/31/2020 | CEPREI (C) | |
| | | | | | | |

3. Test Result

| Condition | Test Items *3 | Unit | | Normal Voltage + 10% (13.2VDC) | | | Normal Voltage (12VDC) | | | Normal Voltage - 10% (10.8VDC) | | | Judgment | Limit | Remarks |
|-----------------------------|----------------------------------|---------------------|------|----------------------------------|-----------|----------|--------------------------|------------|----------|----------------------------------|-----------|----------|----------|------------|---------|
| | | | | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | | | |
| Normal (23.6°C, 49.2%) | Frequency | MHz | | 2402.009 | 2441.008 | 2480.009 | 2402.008 | 2441.009 | 2480.009 | 2402.009 | 2441.009 | 2480.009 | Pass | | |
| | | ppm | | 3.747 | 3.277 | 3.629 | 3.331 | 3.687 | 3.629 | 3.747 | 3.687 | 3.629 | | 50ppm | |
| | Occupied Bandwidth | MHz | | - | 78.202011 | - | - | 78.247531 | - | - | 78.204865 | - | Pass | 83.5MHz | |
| | Spread Bandwidth | MHz | 79ch | - | 71.212792 | - | - | 71.445784 | - | - | 71.267227 | - | Pass | 500kHz | |
| | | | 20ch | - | 18.066334 | - | - | 18.317133 | - | - | 18.016233 | - | Pass | | |
| | Spurious | 30MHz-2387MHz | dBm | - | -45.84 | - | - | -45.78 | - | - | -46.88 | - | Pass | -26dBm | |
| | | | MHz | - | 1495.800 | - | - | 1479.300 | - | - | 1422.800 | - | | | |
| | | 2387MHz-2400MHz | dBm | - | -21.66 | - | - | -20.86 | - | - | -22.80 | - | Pass | -16dBm | |
| | | | MHz | - | 2399.864 | - | - | 2399.942 | - | - | 2399.721 | - | | | |
| | | 2483.5MHz-2496.5MHz | dBm | - | -30.05 | - | - | -30.50 | - | - | -30.25 | - | Pass | -16dBm | |
| | | | MHz | - | 2483.519 | - | - | 2483.623 | - | - | 2483.610 | - | | | |
| | | 2496.5MHz-12.5GHz | dBm | - | -36.61 | - | - | -35.70 | - | - | -36.52 | - | Pass | -26dBm | |
| | | | MHz | - | 4809.500 | - | - | 4800.500 | - | - | 4829.500 | - | | | |
| | Antenna Power | W/MHz | 79ch | - | 0.0000191 | - | - | 0.0000189 | - | - | 0.0000190 | - | Pass | 0.003W/MHz | |
| | | % | | - | 0.5746170 | - | - | -0.3287760 | - | - | 0.1974200 | - | | +20 ~ -80% | |
| | | W/MHz | 20ch | - | 0.0000753 | - | - | 0.0000739 | - | - | 0.0000753 | - | | 0.003W/MHz | |
| | | % | | - | 0.4312120 | - | - | -1.5124720 | - | - | 0.4094870 | - | | +20 ~ -80% | |
| | Secondary Radiated Emissions | 30MHz-1GHz | dBm | -62.67 | -63.68 | -62.83 | -62.67 | -63.68 | -62.83 | -62.78 | -63.79 | -62.94 | Pass | -54dBm | |
| | | | MHz | 992.100 | 975.000 | 992.100 | 991.200 | 974.200 | 994.300 | 992.600 | 975.100 | 994.300 | | | |
| | | 1GHz-12.5GHz | dBm | -51.80 | -49.01 | -49.52 | -51.80 | -49.01 | -49.52 | -51.91 | -49.12 | -49.63 | Pass | -47dBm | |
| | | | MHz | 3202.300 | 2477.700 | 2476.000 | 3201.300 | 2476.900 | 2476.000 | 3202.800 | 2477.800 | 2476.000 | | | |
| | Dwell time | s | | - | 0.280 | - | - | 0.281 | - | - | 0.280 | - | Pass | 0.4 | |
| | Interference Prevention Function | | | - | Pass | - | - | Pass | - | - | Pass | - | Pass | | |

*1 Please describe the relevant clause in the remarks column. (Either of (a) ~ (d) of 2 paragraph 4 of Article 24 of the Radio Law)

Test result and instruments about Type certificate

Bluetooth BR/EDR

1. General

| | | | |
|--|--|---------|--------------------|
| Model name | NA-393 | Date | 22 December 2020 |
| Serial number | A1 | Place | SGS Hong Kong Ltd. |
| Class of emissions, Assigned frequency and Antenna power | F1D, G1D 2441MHz 0.000019W/MHz - 0.000075W/MHz | Remarks | |

2. Measuring Instruments

| Equipment type | Model number | Serial number | Manufacturer | Calibrated Date | Calibration Authority | Remarks |
|-----------------|--------------|---------------|-----------------|-----------------|-----------------------|---------|
| Signal Analyzer | FSV40 | 101418 | ROHDE & SCHWARZ | 8/31/2020 | CEPREI (C) | |
| | | | | | | |

3. Test Result

| Condition | Test Items *3 | Unit | | Normal Voltage + 10% (13.2VDC) | | | Normal Voltage (12VDC) | | | Normal Voltage - 10% (10.8VDC) | | | Judgment | Limit | Remarks |
|-----------------------------|----------------------------------|---------------------|------|----------------------------------|-------------|-------------|--------------------------|-------------|-------------|----------------------------------|-------------|-------------|----------|------------|---------|
| | | | | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | | | |
| Normal (23.6°C, 49.2%) | Frequency | MHz | | 2402.009751 | 2442.009780 | 2480.009889 | 2402.008527 | 2442.009124 | 2480.008874 | 2402.009927 | 2442.009524 | 2480.009868 | Pass | | |
| | | ppm | | 4.060 | 4.005 | 3.987 | 3.550 | 3.736 | 3.578 | 4.133 | 3.900 | 3.979 | | 50ppm | |
| | Occupied Bandwidth | MHz | | - | 78.162502 | - | - | 78.087333 | - | - | 78.212529 | - | Pass | 83.5MHz | |
| | Spread Bandwidth | MHz | 79ch | - | 71.025333 | - | - | 71.119195 | - | - | 71.226239 | - | Pass | 500kHz | |
| | | | 20ch | - | 18.115693 | - | - | 18.309438 | - | - | 18.360642 | - | Pass | | |
| | Spurious | 30MHz-2387MHz | dBm | - | -46.83 | - | - | -46.27 | - | - | -47.09 | - | Pass | -26dBm | |
| | | | MHz | - | 1298.000 | - | - | 1545.200 | - | - | 33.500 | - | Pass | | |
| | | 2387MHz-2400MHz | dBm | - | -21.44 | - | - | -20.78 | - | - | -22.13 | - | Pass | -16dBm | |
| | | | MHz | - | 2399.968 | - | - | 2399.916 | - | - | 2399.902 | - | Pass | | |
| | | 2483.5MHz-2496.5MHz | dBm | - | -31.07 | - | - | -30.11 | - | - | -32.48 | - | Pass | -16dBm | |
| | | | MHz | - | 2483.805 | - | - | 2483.558 | - | - | 2483.896 | - | Pass | | |
| | | 2496.5MHz-12.5GHz | dBm | - | -36.79 | - | - | -36.02 | - | - | -36.79 | - | Pass | -26dBm | |
| | | | MHz | - | 4839.500 | - | - | 4809.500 | - | - | 4819.500 | - | Pass | | |
| | Antenna Power | W/MHz | 79ch | - | 0.0000154 | - | - | 0.0000151 | - | - | 0.0000156 | - | Pass | 0.003W/MHz | |
| | | % | | - | -18.7107490 | - | - | -20.5745710 | - | - | -17.9069510 | - | | +20 ~ -80% | |
| | | W/MHz | 20ch | - | 0.0000606 | - | - | 0.0000586 | - | - | 0.0000605 | - | | 0.003W/MHz | |
| | | % | | - | -19.2609220 | - | - | -21.8437480 | - | - | -19.3227890 | - | | +20 ~ -80% | |
| | Secondary Radiated Emissions | 30MHz-1GHz | dBm | -62.56 | -62.20 | -62.39 | -63.45 | -63.60 | -61.79 | -65.78 | -64.89 | -62.00 | Pass | -54dBm | |
| | | | MHz | 986.100 | 970.280 | 989.100 | 985.100 | 978.800 | 995.100 | 990.900 | 981.300 | 995.100 | Pass | | |
| | | 1GHz-12.5GHz | dBm | -50.83 | -51.88 | -50.38 | -52.00 | -50.90 | -50.47 | -51.93 | -52.14 | -50.18 | Pass | -47dBm | |
| | | | MHz | 2713.800 | 2487.900 | 2491.370 | -52.00 | 24780.500 | 2488.000 | 2980.700 | 2479.900 | 2478.000 | Pass | | |
| | Dwell time | s | | - | 0.279 | - | - | 0.280 | - | - | 0.281 | - | Pass | 0.4 | |
| | Interference Prevention Function | | | - | Pass | - | - | Pass | - | - | Pass | - | Pass | | |

*1 Please describe the relevant clause in the remarks column. (Either of (a) ~ (d) of 2 paragraph 4 of Article 24 of the Radio Law)