

Testing Fees

| Test item | Outline | Specification | Apparatus usage fee | Consultation fee | Test preparation fee | Operator fee ※3 | Operation charge※4 | Remarks/Notes |
|---|---|--|--|------------------|----------------------|--|--------------------|---|
| EMC testing | Antenna pattern measurement. Electromagnetic compatibility (emission) test. | Dimensions of test chamber (lined with radio wave absorbers) : 6.0m x 5.2m x 5.0m | 15,000 yen/day | 10,000yen ※6 | 20,000 yen | 45,000 yen/day | 30,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 |
| Vibration test | Verification of mechanical strength against launch environment | Acceleration measurements are taken at 24 points (max.). Consultation is needed if extra points are required. | 20,000 yen/day | 30,000yen ※6 | 20,000 yen ※7 | 45,000 yen/day | 30,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 In case of clean booth usage※2 Test report (ISO-17025:2017)※5 |
| Shock test | Verification of strength against shock events in launch environment (satellite separation, faring separation) | The test can be performed for satellites with max side size of up to 50 cm and max mass of up to 50 kg. | 30,000 yen/day | 30,000yen ※6 | 20,000 yen ※7 | 45,000 yen/day | 30,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 In case of clean booth usage※2 |
| Thermal vacuum chamber (large) | Verification of satellite functionalities/ performance and thermal control in simulated space thermal environment | Internal diameter of liquid nitrogen shroud: 1.5m, Pressure : 1.0x10 ⁻⁵ Pa. | 20,000 yen/day | 30,000yen ※6 | 50,000 yen | 45,000 yen/day | 30,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 In case of clean booth usage※2 |
| Thermal vacuum chamber (small) | Verification of satellite functionalities/ performance and thermal control in simulated space thermal environment | Maximum size to be tested: 15cm x 15cm x 30 cm (Inside LN2 Shroud) Pressure : 1.0x10 ⁻⁵ Pa. | 15,000 yen/day | 30,000yen ※6 | 30,000 yen | 45,000 yen/day | 30,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 In case of clean booth usage※2 |
| Thermal cycle (large) | Verification of satellite functionalities/ performance and strength against thermal stresss | Temperature profile can be set freely from -190℃ to +200℃. | 15,000 yen/day | 30,000yen ※6 | 20,000 yen | 15,000 yen/day | 15,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 |
| Thermal cycle (small) | Verification of satellite functionalities/ performance and strength against thermal stresss | Temperature profile can be set freely from -190℃ to +200℃. | 15,000 yen/day | 30,000yen ※6 | 20,000 yen | 15,000 yen/day | 15,000 yen/day | Expendable costs (actual costs) are billed separately. ※1 |
| Outgas Measurement | Measurement of outgas properties (TML,TVC,etc.) | Based on ASTM E-595 | 100,000 yen/test | | | 50,000yen/material | — | Expendable costs are included in apparatus usage fee. up to 4 materials for a test. If you refuse to require irregular sample/test, to release material' s information, etc., additional cost is needed (operator fee is twice). Number of samples is 3 for each material. For different number of samples, the testing fee is estimated by using the following ・ If the value of M(number of materials)×N(number of samples) exceed 12, apparatus usage fee is needed for each 12 in the value of M×N. ・ If not N=3, the value of M×N÷3 rounded out to an integer multiply by operator fee. Only Kyutech operators are permitted. Time needed for delivery is approximately one month or more. |
| Thermo-optics properties Test | Measurement of solar absorptance and infra- red emissivity | Measurement wavelength range Solar absorptance: 0.25~2.5 μm Infrared Emissivity : 2.5~100 μm | Solar absorptance: 20,000 yen/test Infrared Emissivity: 20,000 yen/test | | | 15,000 yen/data (Alpha and Epsilon measurements are performed twice; total price is 15,000x4+20,000+20,000=100,000 yen per sample) | — | Expendable costs are included in apparatus usage fee. up to 6 data (or spectra) for a test. If you refuse to require irregular sample/test, to release material' s information, etc., additional cost is needed (operator fee is twice). Consultation in advance is necessary. Only Kyutech operators are permitted. Time needed for delivery is approximately one month or more. |
| Satellite assembly room (Clean room) | Fees are charged for clean room usage | | 4,000 yen/day | | | — | — | |

Testing fees are subject to change without notice.

Additional operator fee will be charged if there is any consulting during the test such as doing a test different from the test plan or changing the test method during the test

※1 : Refers to expendables such as liquid nitrogen, making of dedicated Jig, additional sensors, etc・・・

※2:If the test is carried out inside the clean booth, 10,000 yen (per usage) will be charged additionally.

※3: The operator fee is charged if the quipment is operated by Kyutech staff. The charge is based on 8 hours/day/person.

※4: Operation charge corresponds to consideration of assignment of results/achievements. The test results belong to the user.

※5: The test report based on ISO-17025:2017 is issued with additional charge of 20,000 yen.

※6: This fee is applied, if the contents of the test are complicated and a premilinary meeting (including e-mail and video conference) is required.

※7: This fee is applied, if we need to prepare for the test in advance.