Test order

**R03908**

**For reliability testing**

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| Project Name:  **Nissan MAPC61T TMAPC65T BAP05T** | | | | | End Customer (OEM):  **Nissan** | | | DG number:  DG-200738 |
| Contact details:   |  |  |  |  | | --- | --- | --- | --- | | Role / Function | Name | Department | Phone | | Project Manager | Nemec Petr03 | VT S&A TES PM FLD | +420-556-88-1607 | | System engineer | Nemec Petr04 | VT S&A TES R&D SE | +420-556-881-896 |   Note: Contact details for requester and perform controller are recommended to be added. | | | | | | | | |
| **Type of request:** | Pre-compliance | | | with report | | | | |
| DV | | | Gate 55-60 | | | | |
| PV | | | - Before Gate 80 | | | | |
| - After Gate 80 | | | With PPAP change  Without PPAP change | |
| External request | | | | | | | |
| **Reason/details:** PV (Transfer line from RGB to TRU) | | | | | | | |
| Sample manage process:  TISAX  WFS  N/A | | | | | | | | |
| Total sample amount: 57  HW version: 3.5 SW version: V3\_0\_005 | | | | | | | | |
| Sample production location: TRUTNOV | | | | | | | | |
| Additional sample remarks:  **MAPC61T -> sample marked: 1 to 20 in blue in Test Flow;**  **BAP05T -> sample marked: 1 to 17 in green in Test Flow;**  **TMAPC65T -> sample marked: 1 to 20 in orange in Test Flow.** | | | | | | | | |
| Payment method: | | DS / DSIN number with extension | | | | Click or tap here to enter text. | | |
| CC / IO | | | | Click or tap here to enter text. | | |
| PO | | | | Click or tap here to enter text. | | |
| Requested Time Frame Start: 13-Jun-22  Requested Time Frame End: 02-Sep-22 | | | | | | | | |
| Test Plan (Qualification Program / Test Specification):  **TMAPC65 / BAP05\_Test\_Spec.pdf**  Test Plan version:  **AB**  Test Plan version date:  **2015-08-20**  Test Flow / Test matrix: **Nissan MAPC61T TMAPC65T BAP05T PV flow proposal\_ ver6.0 (kazu) (002)\_20220414.xlsx** | | | | | | | | |
| Test parameters if no Test Plan (Qualification Program / Test Specification) available: | | | | | | | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Test name according Test Plan | Chapter no. from Test Plan | Sample amount: | Sample identification number / Serial number: | Deviation from Test Plan: | Test no.: | | Sine endurance sweeping test | Ch. 10 | 18 | MAPC61T – from 01 to 06,  TMAPC65T – from 01 to 06,  BAP05T – from 01 to 06, | Remark:  Test procedure, point C: DUT shall be operated with mode 3.2.2 during the entire period of testing. | R03908-TSR-01 | | Thermal shocks | Ch. 3 | 24 | MAPC61T – from 07 to 14,  TMAPC65T – from 07 to 14,  BAP05T – from 07 to 14, | Deviation: For all 3 products, 2000 cycles shall be done.Thermal Shock will be done with operating mode 1.3 due to missing connectors with wiring harness. | R03908-SBZ-02 | | Dust test | Ch. 21 | 9 | MAPC61T – from 15 to 17,  TMAPC65T – from 15 to 17,  BAP05T – from 15 to 17, | Deviation: see details from point 3) | R03908-TSR-03 | | Water resistance test | Ch. 22 | 9 | MAPC61T – from 15 to 17,  TMAPC65T – from 15 to 17,  BAP05T – from 15 to 17, | Deviation: see details from point 1), 2) and 3) below. | R03908-TSR-04 | | Liquid Tightness | Ch. 23 | 9 | MAPC61T – from 15 to 17,  TMAPC65T – from 15 to 17,  BAP05T – from 15 to 17, | N/A | R03908-TSR-05 | | Shock test | Ch. 24 | 6 | MAPC61T – from 18 to 20,  TMAPC65T – from 18 to 20, | Deviation: 3 shocks in each direction (±X, ±Y, ±Z).  See details from point 3) and 4). | R03908-TSR-06 | | Curbstone shock test | Ch. 25 | 6 | MAPC61T – from 18 to 20,  TMAPC65T – from 18 to 20, | Deviation: Shock pulse duration 11ms, Acceleration 500 m/s², 3 shocks in each direction (±X, ±Y, ±Z).  See details from point 3) and 4). | R03908-TSR-07 | | Endurance on closure shocks | Ch. 26 | 6 | MAPC61T – from 18 to 20,  TMAPC65T – from 18 to 20, | Deviation: Shock pulse duration 6ms, Acceleration 1000 m/s², 3 shocks in each direction (±X, ±Y, ±Z) and 4). | R03908-TSR-08 |   Deviation details:   1. MAPC61T and TMAPC65T shall be tested acc. Ch. 22.2. Immersion depth: 100 mm. 2. Cycles 1-9 shall be performed automatically; bubbles cannot be observed using the equipment. Cycle 10 will be performed manually: DUT will be heated to Tmax in a climatic chamber, water will be chilled to 0- 4°C in another climatic chamber. After the established dwell time in the climatic chamber, DUT shall be immersed in the chilled water for t2 (30 min). The temperature of the water shall be monitored during the immersion time and stated in the report. During cycle 10, check if bubbles escape. 3. Functional tests will be made via Log Data at RT, pressure measurements are not required. DUT shall be connected to the Log Data equipment for 15 minutes. 4. Operating mode 3.2 shall be used. | | | | | | | | |
| **Monitoring system / LTT / Load box** | | | | | | | | |
| Request to be created by QL | | | [**TSD Service Request**](https://jira-it.zone2.agileci.conti.de/servicedesk/customer/portal/73/user/login?nokerberos&destination=portal%2F73%2Fgroup%2F226%3FgroupId%3D226) | | | | | |
| Owned by QL | | |  | | | | | |
| Provided by requester | | | **Number of monitoring systems allocated for this request:** 4  **Test places (DUT monitored) per system:**  For MAPC61T and BAP05T can be connected 16 samples on one monitoring box.  TMAPC65T can be connected 8 samples on one monitoring box. | | | | | |

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| **Fixtures** | |
| Request to be created by QL | [**TSD Service Request**](https://jira-it.zone2.agileci.conti.de/servicedesk/customer/portal/73/user/login?nokerberos&destination=portal%2F73%2Fgroup%2F226%3FgroupId%3D226) |
| Owned by QL |  |
| Provided by requester | Number of vibration fixtures: To be defined  **Vibration fixture shall be provided by QL**  Number of DUT per vibration fixture: To be defined  Adaptor plates: 18  Number of climatic fixtures: Not applicable  Number of DUT per climatic fixtures: Not applicable  Special fixtures (if applicable): Not applicable |

**Document history**

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| **Version** | **Date** | **Requester** | **Update Description** |
| **1** | 19.05.2022 | Danciu Bogdan | Updates:  Initial Version |
| **2** | 27.05.2022 | Danciu Bogdan | Updates:  DG-number added, deviations added, fixture and monitoring system information added. |
| **3** | 31.05.2022 | Petr04 Nemec | Updates:  Sample identification number updated. |
| **4** | 07.06.2022 | Danciu Bogdan | Updates:  Deviations confirmed by PT. New start and end date. |