## Report on the FCC and IC Testing of the APTIV Services US, LLC Vehicle Radar. Model: FLR4PS In accordance with CFR 47, Part 1 §1.1310 and Part 2, § 2.1093 and RSS-210

Prepared for: APTIV Services US, LLC 5725 Innovation Drive Troy, Michigan 48098 USA

FCC ID: L2CQFLR4PS IC 3432A-FLR4PS

### COMMERCIAL-IN-CONFIDENCE

Date: 2024-09-04

Document Number: TR-713312045-05 | Revision 0

| RESPONSIBLE FOR      | NAME           | DATE       | SIGNATURE                        |
|----------------------|----------------|------------|----------------------------------|
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Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

#### **ENGINEERING STATEMENT**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Parts 1 and 2 and RSS-102. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR  | NAME           |  | DATE     |                        | SIGNATURE                    |             |
|--|----------------|--|----------|------------------------|------------------------------|-------------|
| Testing  | Martin Steindl |  | 2024-09- | 04                     | Skincll<br><sub>sign+D</sub> | · · · · · · |
| Laboratory Accreditation<br>DAkkS Reg. No. D-PL-11321-11-03<br>DAkkS Reg. No. D-PL-11321-11-04 |                | Laboratory recognition<br>Registration No. BNetzA-CAB-16 | /21-15   | ISED Canada<br>3050A-2 | test site registr            | ation       |

#### EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Parts 1 and 2 and ISED RSS-102, Issue 6 (2023-12)

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### Summary

| Prüfergebnisse / Test Results  | Auftragsnummer / <i>Order No.</i><br><b>NA</b> |  |
|--|--|--|
| Die Prüfungen wurden nach folgenden Vorschriften durchgeführt:<br>Tests were performed according to:<br>CFR 47, Parts 1 and 2<br>RSS-210 |  |  |
| Durchgeführte PrüfungPrüfergebnisTest performedTest result   |  |  |
| Radiated Power Pass  |  |  |
| Bemerkungen / Remarks:   |  |  |

\_\_\_\_

Die Prüfergebnisse beziehen sich ausschließlich auf das zur Prüfung vorgestellte Prüfmuster. Ohne schriftliche Genehmigung des Prüflabors darf der Prüfbericht auszugsweise nicht vervielfältigt werden. *The test results relate only to the individual item which has been tested. Without the written approval of the test laboratory this report may not be reproduced in extracts.* 



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### 1 Administrative Data

| Application details          |  |
|------------------------------|--|
| Applicant:                   | APTIV Services US, LLC<br>5725 Innovation Drive<br>Troy, Michigan 48098<br>USA |
| Contact person:              | Mr. Dean Farouki   |
| Intercompany contact:        | TÜV SÜD Product Service GmbH<br>GMA Straubing                                  |
|                              | Mr. Thomas Ring  |
| Order number:                | NA   |
| Receipt of EUT:              | 2024-06-04   |
| Return of EUT:               |  |
| Date(s) of test:             | 2024-06-04 to 2024-06-06   |
| Note(s):                     |  |
| Responsible for testing:     | Mr. Martin Steindl   |
| Responsible for test report: | Mr. Martin Steindl   |
| Test report checked by:      | Mr. Alex Fink  |

| Report details |                 |
|----------------|-----------------|
| Report number: | TR-713312045-05 |
| Revision:      | 0               |
| Issue date:    | 2024-09-04      |



### 2 Details about the Test Laboratory

| Details about the Test Laboratory       |  |
|---|--|
| Company name:                           | TÜV SÜD Product Service GmbH   |
| Address:                                | Äußere Frühlingstraße 45<br>D-94315 Straubing<br>Germany                           |
| Laboratory accreditation:               | DAkkS Registration No. D-PL-11321-11-03<br>DAkkS Registration No. D-PL-11321-11-04 |
| Laboratory recognition:                 | Registration No. BNetzA-CAB-16/21-15   |
| Industry Canada test site registration: | 3050A-2  |
| Contact:                                | Mr. Markus Biberger  |
|   | Phone: +49 9421 5522-0<br>Fax: +49 9421 5522-99                                    |



### 3 Description of the Equipment Under Test

| Equipment characteristics   |                                   |                                  |
|-----------------------------|-----------------------------------|----------------------------------|
| Type designation:           | FLR4PS                            |                                  |
| Parts of the system:        | Radar ECU                         |                                  |
| Options and accessories:    |                                   |                                  |
| Type of equipment:          | Vehicle Radar                     |                                  |
| Serial number:              | NA                                |                                  |
| Manufacturer:               | APTIV Services US, LLC            |                                  |
| Hardware version:           | N/A                               |                                  |
| Software version:           | N/A                               |                                  |
| Drawing number:             |                                   |                                  |
| Build status:               |                                   |                                  |
| Power supply:               | Battery supply (regulated lead-ad | sid)                             |
|                             | Nominal:<br>Minimum:<br>Maximum:  | 12.0 V DC<br>9 V DC<br>16.0 V DC |
|                             | Nominal frequency:                | N/A - DC                         |
| Highest internal frequency: |                                   |                                  |

#### **Technical Description**

The Device Under Test (DUT) is a 76 - 77 GHz vehicular radar. The device employs a dynamic chirp modulated transmit array. Multiple receive antennas are used to determine target angular resolution through digital beam forming. When installed on a vehicle, the device will operate when the vehicle is running. The nominal operating voltage is DC 12.0 V.

#### Modulation characteristics:

Non-pulsed radar

The radar is a FMCW radar; modulation type is sawtooth.

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### 4 Operation Mode and Configuration of EUT

### **Operation Mode(s)**

The operating modes were tested with a single modulation, as provided by the manufacturer.

| List | of ports and cables            |                             |            |                   |                              |
|------|--------------------------------|-----------------------------|------------|-------------------|------------------------------|
| No.  | Description                    | Classification <sup>1</sup> | Cable type | Cable lei<br>used | ngth<br>maximum <sup>2</sup> |
| D1   | DC 12 V supply                 | dc power                    | Unshielded | 2 m               | < 3 m                        |
| S1   | Wiring harness (CAN, Ethernet) | signal/control port         | Unshielded | 2 m               | < 3 m                        |

| List | of devices connected to EUT |                  |                  |              |
|------|-----------------------------|------------------|------------------|--------------|
| No.  | Description                 | Type designation | Serial no. or ID | Manufacturer |
|      |                             |                  |                  |              |

| List | of support devices |                  |                  |              |
|------|--------------------|------------------|------------------|--------------|
| No.  | Description        | Type designation | Serial no. or ID | Manufacturer |
| 1    | CAN/LIN-Interface  | VN1640A          |                  | Vector       |
| 2    | Notebook           | Latitude 5480    |                  | Dell         |

<sup>2</sup> As specified by applicant

<sup>&</sup>lt;sup>1</sup> Ports shall be classified as ac power, dc power or signal/control port.



### 5 Referenced Regulations

| Publication   | Title   |
|---|---|
| CFR 47, Part 1  | Code of Federal Regulations Part 1 (Practice and Procedure) of the Federal Communications Comission (FCC)   |
| CFR 47, Part 2  | Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communications Comission (FCC)           |
| CFR 47, Part 95, Subpart M  | Code of Federal Regulations Part 95 (Personal Radio Services), Subpart<br>M (76 – 77 GHz Band Radar Service) of the Federal Communications<br>Comission (FCC)             |
| RSS-102, Issue 5 (March 2015)<br>+ Amendment 1 (February 2021)                              | Radio Frequency (RF) Exposure Compliance of Radiocommunication<br>Apparatus (All Frequency Bands)   |
| RSS-251, Issue 2 (July 2018)  | Vehicular Radar and Airport Fixed or Mobile Radar in the 76 – 81 GHz Frequency band   |
| RSS-Gen, Isse 5 (April 2018)<br>+ Amendment 1 (March 2019)<br>+ Amendment 2 (February 2021) | General Requirements for Compliance of Radio Apparatus  |
| ANSI C63.4-2014   | American National Standard for Methods of Measurement of Radio-Noise<br>Emissions from Low-Voltage Electrical and Electronic Equipment in the<br>Range of 9 kHz to 40 GHz |
| ANSI C63.10-2013  | American National Standard of Procedures for Compliance Testing of<br>Unlicensed Wireless Devices   |



#### **Test Results** 6

| CFR 47, Part 1 |                   |      |             |  |  |  |
|----------------|-------------------|------|-------------|--|--|--|
| Section(s)     | Test performed    | Page | Test Result |  |  |  |
| § 1.1310       | RF Exposure Value | 11   | Test passed |  |  |  |
| § 1.1310       |                   | ET . | rest passed |  |  |  |

KDB 447498 D04 V01

| RSS-210    |   |      |             |
|------------|---|------|-------------|
| Section(s) | Test performed  | Page | Test Result |
| 5.3.2      | Reference levels – Feld strength and power density levles | 11   | Test passed |



### 6.1 Radiated Power

| Date of Test | 2024-06-04                       | Test Result |
|--------------|----------------------------------|-------------|
| Operator     | M. Steindl                       | ⊠ Passed    |
| Test Site    | Fully anechoic room, cabin no. 2 | Not Passed  |

| Barometric pressure: | 976 hPa |
|----------------------|---------|
| Relative humidity:   | 50 %    |
| Ambient temperature: | 24 °C   |

| Specifications: | Part 1, § 1.1310<br>RSS-102, section 5.3.2   |
|-----------------|--|
| Description:    | The test was performed in accordance with KDB 447498 D04 V01.<br>Average RF power test was performed according to ANSI C63.10, section 10.3.5.   |
| Operation mode: | Transmitting continuously on frequency with modulation bandwidth as stated in table below  |
| Comment :       | Test was performed as radiated test. The test distance was 3 m. A correction factor of -58 dB and mixer conversion loss table were used to account for the test antenna gain, free-space loss and external mixer loss. |
|                 | The evaluation distance for power density of 20 cm was declared by the applicant.  |
|                 | For details on tests refer to test reports TR-713312045-01 and TR-713312045-02.  |

| Detector | E.I.R.P.  |            | Power Density (20 cm)    | Limit                  | Note |
|----------|-----------|------------|--------------------------|------------------------|------|
| Average  | 28.11 dBm | 647.14 mW  | 0.003 mW/cm <sup>2</sup> | 1.0 mW/cm <sup>2</sup> | 1, 2 |
| Peak     | 37.54 dBm | 5675.45 mW | 0.133 mW/cm <sup>2</sup> | 1.0 mW/cm <sup>2</sup> | 1    |
|          |           |            | ·                        |                        |      |

Note(s):

1 Limit for uncontrolled environment: 10 W/m<sup>2</sup> = 1 mW/cm<sup>2</sup>

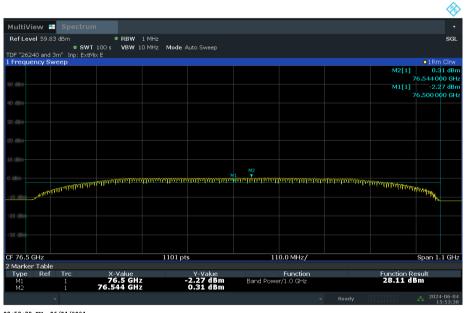
2 Integrated value within 1 GHz



#### Plots taken during test

|  |                      |  |     |          |           |            | <b></b>                    |
|--|----------------------|--|-----|----------|-----------|------------|----------------------------|
| MultiView 🖬 Spectrum   |                      |  |     |          |           |            | •                          |
| Ref Level 59.83 dBm  | • RBW 50 MHz         |  |     |          |           |            |                            |
| <ul> <li>SWT 5 ms</li> <li>TDF "26240 and 3m" Inp: ExtMix E</li> </ul> | S VBW 80 MHz Mode AL | ito Sweep                              |     |          |           |            | i i                        |
| 1 Frequency Sweep  |                      |  |     |          |           |            | • 1Pk Max                  |
| 50 dBm   |                      |  |     |          |           | M1[1]<br>7 | 37.54 dBm<br>6.587 900 GHz |
|  |                      |  | M1  |          |           |            |                            |
| 40 dBm   |                      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |     |          |           |            | moht cash                  |
|  |                      |  |     |          |           |            | Why why                    |
| 20. dim  |                      |  |     |          |           |            | , M                        |
| 10 dBm-  |                      |  |     |          |           |            |                            |
| 10 dam   |                      |  |     |          |           |            |                            |
| 0 dBm  |                      |  |     |          |           |            |                            |
| -10 dBm  |                      |  |     |          |           |            |                            |
| -20 dBm-   |                      |  |     |          |           |            |                            |
|  |                      |  |     |          |           |            |                            |
| -30 dBm  |                      |  |     |          |           |            |                            |
|  |                      |  |     |          |           |            |                            |
| CF 76.5 GHz  | 1101 pts             |  | 110 | 0.0 MHz/ |           |            | Span 1.1 GHz               |
| *  |                      |  |     | ~        | Measuring |            | 2024-06-04<br>15:43:01     |

03:43:01 PM 06/04/2024



03:53:39 PM 06/04/2024

Operating mode – Continuously Transmitting - 12.0 V DC power supply



### 7 Test Equipment used

| T-ID  | Designation                | Туре          | Last Cal. | Next Cal. |
|-------|----------------------------|---------------|-----------|-----------|
| 18874 | Horn antenna               | 3160-07       | Vei       | ified     |
| 18875 | Horn antenna               | 3160-08       | Vei       | ified     |
| 19125 | Horn antenna               | 3160-09       | Vei       | ified     |
| 40089 | Double ridged horn antenna | HF907         | 2022-10   | 2024-10   |
| 19442 | Horn antenna               | 3160-10       | Vei       | ified     |
| 19946 | Horn antenna               | 24240-20      | Vei       | ified     |
| 39897 | EMI test receiver          | ESW44         | 2024-04   | 2025-04   |
| 22553 | Waveguide mixer            | FS-Z170       | 2023-06   | 2026-06   |
| 25849 | Waveguide mixer            | FS-Z60        | 2023-05   | 2026-05   |
| 25850 | Waveguide mixer            | FS-Z90        | 2023-05   | 2026-05   |
| 25851 | Waveguide mixer            | FS-Z110       | 2023-06   | 2026-06   |
| 27898 | Horn antenna               | 26240-20      | Vei       | ified     |
| 27899 | Horn antenna               | 27240-20      | Vei       | ified     |
| 36954 | Harmonic Mixer             | FS-Z220       | 2023-05   | 2026-05   |
| 36955 | Harmonic Mixer             | FS-Z325       | 2023-05   | 2026-05   |
| 37863 | Horn antenna               | 30240-20 WG30 | Vei       | ified     |
| 37864 | Horn antenna               | 32240-20 WG32 | Vei       | ified     |
| 19918 | TRILOG Broadband antenna   | VULP 9163     | 2022-10   | 2025-10   |

Test software for: EMC32 V10.



### 8 Measurement Uncertainty Values

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to EN 55016-4-2: 2011 + A1 + A2 + AC and CISPR16-4-2: 2011 + A1 + A2 + Cor1 (UCISPR). This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Radio Testing                           |      |                         |      |
|---|------|-------------------------|------|
| TestName                                | kp   | Expanded<br>Uncertainty | Note |
| Occupied Bandwidth                      | 2.0  | ±1.14 %                 | 2    |
| RF-Frequency error                      | 1.96 | ±1 · 10-7               | 7    |
| RF-Power, conducted carrier             | 2    | ±0.079 dB               | 2    |
| RF-Power uncertainty for given BER      | 1.96 | +0.94 dB / -1.05        | 7    |
| RF power, conducted, spurious emissions | 1.96 | +1.4 dB / -1.6 dB       | 7    |
| RF power, radiated                      |      |                         |      |
| 25 MHz – 4 GHz                          | 1.96 | +3.6 dB / -5.2 dB       | 8    |
| 1 GHz – 18 GHz                          | 1.96 | +3.8 dB / -5.6 dB       | 8    |
| 18 GHz – 26.5 GHz                       | 1.96 | +3.4 dB / -4.5 dB       | 8    |
| 40 GHz – 170 GHz                        | 1.96 | +4.2 dB / -7.1 dB       | 8    |
| Spectral Power Density, conducted       | 2.0  | ±0.53 dB                | 2    |
| Maximum frequency deviation             |      |                         |      |
| 300 Hz – 6 kHz                          | 2    | ±2,89 %                 | 2    |
| 6 kHz – 25 kHz                          | 2    | ±0.2 dB                 | 2    |
| Maximum frequency deviation for FM      | 2    | ±2,89 %                 | 2    |
| Adjacent channel power 25 MHz – 1 GHz   | 2    | ±2.31 %                 | 2    |
| Temperature                             | 2    | ±0.39 K                 | 4    |
| (Relative) Humidity                     | 2    | ±2.28 %                 | 2    |
| DC- and low frequency AC voltage        |      |                         |      |
| DC voltage                              | 2    | ±0.01 %                 | 2    |
| AC voltage up to 1 kHz                  | 2    | ±1.2 %                  | 2    |
| Time                                    | 2    | ±0.6 %                  | 2    |

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| Radio Interference Emission Testing               |    |                         |      |
|---|----|-------------------------|------|
| TestName  | kp | Expanded<br>Uncertainty | Note |
| Conducted Voltage Emission                        |    |                         |      |
| 9 kHz to 150 kHz (50Ω/50μH AMN)                   | 2  | ± 3.8 dB                | 1    |
| 150 kHz to 30 MHz (50Ω/50μH AMN)                  | 2  | ± 3.4 dB                | 1    |
| 100 kHz to 200 MHz (50Ω/5μH AMN)                  | 2  | ± 3.6 dB                | 1    |
| Discontinuous Conducted Emission                  |    |                         |      |
| 9 kHz to 150 kHz (50Ω/50μH AMN)                   | 2  | ± 3.8 dB                | 1    |
| 150 kHz to 30 MHz (50Ω/50μH AMN)                  | 2  | ± 3.4 dB                | 1    |
| Conducted Current Emission                        |    |                         |      |
| 9 kHz to 200 MHz                                  | 2  | ± 3.5 dB                | 1    |
| Magnetic Fieldstrength                            |    |                         |      |
| 9 kHz to 30 MHz (with loop antenna)               | 2  | ± 3.9 dB                | 1    |
| 9 kHz to 30 MHz (large-loop antenna 2 m)          | 2  | ± 3.5 dB                | 1    |
| Radiated Emission                                 |    |                         |      |
| Test distance 1 m (ALSE)                          |    |                         |      |
| 9 kHz to 150 kHz                                  | 2  | ± 4.6 dB                | 1    |
| 150 kHz to 30 MHz                                 | 2  | ± 4.1 dB                | 1    |
| 30 MHz to 200 MHz                                 | 2  | ± 5.2 dB                | 1    |
| 200 MHz to 2 GHz                                  | 2  | ± 4.4 dB                | 1    |
| 2 GHz to 3 GHz                                    | 2  | ± 4.6 dB                | 1    |
| Test distance 3 m                                 |    |                         |      |
| 30 MHz to 300 MHz                                 | 2  | ± 4.9 dB                | 1    |
| 300 MHz to 1 GHz                                  | 2  | ± 5.0 dB                | 1    |
| 1 GHz to 6 GHz                                    | 2  | ± 4.6 dB                | 1    |
| Test distance 10 m                                |    |                         |      |
| 30 MHz to 300 MHz                                 | 2  | ± 4.9 dB                | 1    |
| 300 MHz to 1 GHz                                  | 2  | ± 4.9 dB                | 1    |
| Radio Interference Power                          |    |                         |      |
| 30 MHz to 300 MHz                                 | 2  | ± 3.5 dB                | 1    |
| Harmonic Current Emissions                        |    |                         | 4    |
| Voltage Changes, Voltage Fluctuations and Flicker |    |                         | 4    |



| Immunity Testing   |      |                         |      |  |
|--|------|-------------------------|------|--|
| Test Name  | kp   | Expanded<br>Uncertainty | Note |  |
| Electrostatic Discharges                                 |      |                         | 4    |  |
| Radiated RF-Field  |      |                         |      |  |
| Pre-calibrated field level                               | 2    | +32.2 / -24.3 %         | 5    |  |
| Dynamic feedback field level                             | 2.05 | +21.2 / -17.5 %         | 3    |  |
| Electrical Fast Transients (EFT) / Bursts                |      |                         | 4    |  |
| Surges   |      |                         | 4    |  |
| Conducted Disturbances, induced by RF-Fields             |      |                         |      |  |
| via CDN  | 2    | +15.1 / -13.1 %         | 6    |  |
| via EM clamp   | 2    | +42.6 / -29.9 %         | 6    |  |
| via current clamp  | 2    | +43.9 / -30.5 %         | 6    |  |
| Power Frequency Magnetic Field                           | 2    | +20.7 / -17.1 %         | 2    |  |
| Pulse Magnetic Field                                     |      |                         | 4    |  |
| Voltage Dips, Short Interruptions and Voltage Variations |      |                         | 4    |  |
| Oscillatory Waves  |      |                         | 4    |  |
| Conducted Low Frequency Disturbances                     |      |                         |      |  |
| Voltage setting  | 2    | ± 0.9 %                 | 2    |  |
| Frequency setting  | 2    | ± 0.1 %                 | 2    |  |
| Electrical Transient Transmission in Road Vehicles       |      |                         | 4    |  |

Note 1:

The expanded uncertainty reported according to CISPR 16-4-2:2003-11 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%Note 2:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45% Note 3:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of kp = 2.05, providing a level of confidence of p = 95.45% Note 4:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence.

Note 5:

The expanded uncertainty reported according to IEC 61000-4-3 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%

Note 6:

The expanded uncertainty reported according to IEC 61000-4-6 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%

Note 7:

The expanded uncertainty reported according ETSI TR 100 028 V1.4.1 (all parts) to is based on a standard uncertainty multiplied by a coverage factor of kp = 1.96, providing a level of confidence of p = 95.45% Note 8:

The expanded uncertainty reported according to ETSI TR 102 273 V1.2.1 (all parts) is based on a standard uncertainty multiplied by a coverage factor of kp = 1.96, providing a level of confidence of p = 95.45%



### 9 Revision History

| Revision History |            |            |               |  |  |
|------------------|------------|------------|---------------|--|--|
| Revision         | Date       | lssued by  | Modifications |  |  |
| 0                | 2024-09-04 | M. Steindl | First Edition |  |  |
|                  |            |            |               |  |  |