Step 6: Verification of Barometric Pressure Altitude – Version Two (2)

Provide valid Version Two (2) Airborne Velocity Messages to the ADS-B Receiving Subsystem such that Barometric Pressure Altitude is indicated. Verify that the LSB in byte 33 of the Mode Status Report is set to ZERO (0).

Step 7: Verification of Geometric Altitude – Version Two (2)

Provide valid Version Two (2) Airborne Velocity Messages to the ADS-B Receiving Subsystem such that Geometric Altitude is indicated. Verify that the LSB in byte 33 of the Mode Status Report is set to ONE (1).

2.4.8.2.19 Verification of the (Reserved for) Flight Mode Specific Data (§2.2.8.2.19)

Purpose/Inroduction:

A 3-bit field in the Mode Status Report is reserved for future use as a "Flight Mode Specific Data" field. In the current version of these MOPS, this field is set to ALL ZEROs.

Measurement Procedure:

Verify that in each Mode Status Report, the "Flight Mode Specific Data" field is ZERO.

2.4.8.3 Verification of the ADS-B On-Condition Report Characteristics (§2.2.8.3)

No specific test procedure is required to validate §2.2.8.3.

2.4.8.3.1 Verification of the Target State Report (§2.2.8.3.1)

Appropriate test procedures required to validate the requirements of §2.2.8.3.1 are included in the following subparagraphs.

2.4.8.3.1.1 Verification of the Target State Report Type and Structure Identification (§2.2.8.3.1.1)

Purpose/Introduction:

The Report Type requirements are provided in §2.2.8.1.1. The Report Structure field is used to indicate the exact data parameters identified in Table 2-88 that are being provided in the Target State Report and is intended to provide a methodology for implementers to structure concatenated reports when data for some parameters is not available. This test procedure will be used to verify the correct encoding of the Report Structure (Target State Report bits 5 through 21).

Equipment:

Provide a method of supplying the ADS-B Receiving Subsystem with valid ADS-B Messages.

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Measurement Procedure:

Step 1: Incapability of Concatenation:

If the Report Assembly Function is implemented such that the Target State Report may be shortened when certain data is not available, skip to Step 2.

If the Report Assembly Function is implemented such that the Target State Report is 22 bytes long regardless of data availability across fields, consecutively provide the ADS-B Receiving Subsystem with valid ADS-B Messages, varying message types appropriately to prompt output of Target State Reports. Ensure that in each valid ADS-B Message provided to the ADS-B Receiving Subsystem, that the "AA" field (message bits 9 through 32) is set to hexadecimal A60DBE.

Verify that in every Target State Report provided to the application, bytes 2 through 4 are hexadecimal A60DBE. Verify that the 16-bit Report Structure field is set to ALL ONEs in every Target State Report provided to the application. Verify that the Target State Report is 22 bytes long. This test procedure is now completed.

Step 2: Capability of Concatenation

Appropriate test procedures to validate this capability are provided in §2.4.8.3.1.3~~2.4.8.3.1.3~~2.4.8.3.1.2 through §2.4.8.3.1.14~~2.4.8.3.1.16~~.

2.4.8.3.1.2 Verification of Target State Report Validity Flags (§2.2.8.3.1.2)

Measurement Procedures:

Step 1: Initialization

Provide valid Airborne Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State (see §2.2.10.4) and is outputting Target State Reports to the Report Buffer.

Step 2: Verification of Validity Flags

Provide valid Target State and Status Messages to the ADS-B Receiving Subsystem designed to trigger both valid and invalid validity flags via the indicated message bit(s) for mapping the following Target State Report elements in the appropriate bit in byte 3 of the report as per Table 2-95A:

- MCP/FCU Selected Altitude or FMS Selected Altitude (ME bits 10-20 ALL ZEROES = Invalid, Non-ZERO = Valid)
- Barometric Pressure Setting (Minus 800 millibars) (ME bits 21-29 ALL ZEROES = Invalid, Non-ZERO = Valid)
- Selected Heading (ME bit 30)
- MCP/FCU Mode Bits Status (ME bit 47)

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The ADS-B Report Assembly Function will be prompted to output a Target State Report to the Report Buffer. Verify that Target State Reports are generated where the validity flags are set to both ZERO and ONE at least one time each for MCP/FCU Selected Altitude or FMS Selected Altitude, Barometric Pressure Setting (Minus 800 millibars), Selected Heading and MCP/FCU Mode Bits Status.

~~2.4.8.3.1.2~~2.4.8.3.1.3 Verification of the Participant Address (§2.2.8.3.1.3~~2.2.8.3.1.3~~~~2.2.8.3.1.2~~)

Appropriate test procedures to validate the Participant Address (§2.2.3.2.1.5) are included in the verification of the "PI" field in §2.4.3.2.1.7.

~~2.4.8.3.1.3~~2.4.8.3.1.4 Verfication of the Address Qualifier (§2.2.8.3.1.4~~2.2.8.3.1.4~~~~2.2.8.3.1.3~~)

Appropriate test procedures required to validate the requirements of §2.2.8.3.1.4~~2.2.8.3.1.4~~~~2.2.8.3.1.3~~ are included in §2.4.8.1.3.

~~2.4.8.3.1.4~~2.4.8.3.1.5 Verification of the Target State Report - Time of Applicability (§2.2.8.3.1.5~~2.2.8.3.1.5~~~~2.2.8.3.1.4~~)

Purpose/Introduction:

Each time that an Individual Target State Report is updated, the Report Assembly Function updates the Report Time of Applicability data in the Target State Report with either the GPS / GNSS UTC Measure Time data (see §2.2.8.5.1) or the Established Receiver Unit Time (see §2.2.8.5.2), whichever is applicable to the Receiving device Report Assembly Function installation requirements.

Equipment:

The test equipment for this procedure depends on whether the ADS-B receiver under test is meant for Precision Installations or Non-Precision Installations (see §2.2.8.5). For Precision systems, the equipment will need to have the ability to provide GPS/GNSS UTC Measure Time Data via the appropriate interface. For Non-Precision systems, the equipment will include a clock that is appropriately synchronized with the internal clock of the ADS-B Receiving Subsystem. In both cases, the equipment **shall** have the capability to mark the time when a Target State Report is provided to the output buffer.

A method of providing valid ADS-B Messages that are used for constructing Target State Reports. Also, provide a method of providing valid Position and Velocity Messages to the ADS-B Receiving Subsystem. In all messages provided to the ADS-B receiver, regardless of type, the "AA" field (Message bits 9 through 32) will be set to the same discrete address. The requirement that the "AA" fields be identical is to ensure that the outputted Target State Reports are related solely to this test procedure.

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Measurement Procedures:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State (see §2.2.10.4) and is outputting Target State Reports to the Report Buffer.

Step 2: Verification of Report Time of Applicability

Provide any valid Target State and Status Message. After one second, provide a valid ADS-B Velocity Message to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function is prompted to output a Target State Report to the Report Buffer.

Mark the time—via GPS/GNSS UTC for Precision Installations, or the test clock for Non-Precision Installations. Retrieve the resulting Target State Report from the Report Buffer. Calculate the time represented in the "Report Time of Applicability" (Report bytes 16 through 17 in the full Target State Report) and verify that this time is within 5 ms of the previously marked time.

Repeat the process continuously for at least 550 seconds.

~~2.4.8.3.1.5~~2.4.8.3.1.6 Verification of ~~Horizontal Intent~~Selected Altitude: ~~Horizontal Data Available and Horizontal Target Source Indicator~~Selected Altitude Type (§2.2.8.3.1.6~~2.2.8.3.1.6~~2.2.8.3.1.5)

Purpose/Introduction:

The ~~Horizontal Data Available and Horizontal Target Source Indicator~~Selected Altitude Type parameter uses the ~~two (2)~~ least significant bit~~s~~ within byte ~~8~~ 10 to encode the parameter values specified in §2.2.3.2.7.1.3.2~~2.2.3.2.7.1.3.7~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Horizontal Intent~~Selected Altitude: ~~Horizontal Data Available and Horizontal Target Source Indicator~~MCP/FCU

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem indicating the data source as MCP/FCU~~such that ME bits 26 and 27 are set to ZEROs (binary 00).~~, (~~Verify that~~i.e) ME bit 9 in the ~~two least significant bits of byte thirteen of the~~ Target State ~~Report~~message ~~are also~~is set to

ZERO~~s (binary 00)~~. Verify that the corresponding Target State and Status Report indicates an MCP/FCU source.

Step 3: Verification of Selected Altitude: FMS

Repeat this procedure ~~three times with ME bits 26 and 27 of~~indicating the data source as FMS, (i.e.)ME bit 9 in the Target State and Status message is~~Message~~ set to ONE~~ (binary 01), then to TWO (binary 10), and finally to THREE (binary 11) and verify that the two least significant bits of byte thirteen of the Target State Report are also set to ONE (binary 01), then to TWO (binary 10), and finally to THREE (binary 11), respectively.~~

. Verify that the corresponding Target State and Status Report indicates an FMS source.

Step 4: Verification of Selected Altitude: Data Not Available

Repeat this procedure with ME bit 9 set to ZERO and ME bits 10-20 set to ALL ZEROES in the Target State and Status message to indicate data not available. Verify that the corresponding Target State and Status Report indicates data not available.

~~2.4.8.3.1.6~~2.4.8.3.1.7 Verification of~~ the Horizontal Intent~~Selected Altitude: ~~Target Heading or Track Angle~~MCP/FCU or FMS Selected Altitude (§2.2.8.3.1.7~~2.2.8.3.1.7~~2.2.8.3.1.6)

Purpose/Introduction:

The ~~Target Heading and Track Angle~~MCP/FCU or FMS Selected Altitude parameter uses the three least significant bits within~~ the first~~ byte 11 and the 8 bits of the ~~second~~ byte 12 to encode the parameter values specified in §2.2.3.2.7.1.3.3~~**Error! Reference source not found.**~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Horizontal Intent~~Selected Altitude: ~~Target Heading or Track Angle~~MCP/FCU or FMS Selected Altitude

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bits ~~28~~ 10 through ~~36~~ 20 of the Target State and Status Message are mapped bit for bit to the Target State Report in the three least significant bits of byte ~~9~~ 11 and all 8 bits of byte ~~10~~ 12 of that report.

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~~2.4.8.3.1.7~~2.4.8.3.1.8 Verification of ~~the Horizontal Intent~~Selected Altitude: ~~Target Heading/Track Indicator~~Barometric Pressure Setting (Minus 800 millibars) (§2.2.8.3.1.8~~2.2.8.3.1.8~~2.2.8.3.1.7~~)

Purpose/Introduction:

The ~~Target Heading or Track Indicator~~Barometric Pressure Setting (Minus 800 millibars) parameter uses the least significant bit within byte ~~11~~ 13 and the 8 bits of byte 14 to encode the patameter values specified in §2.2.3.2.7.1.3.4~~**Error! Reference source not found.**~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Horizontal Intent~~Selected Altitude: Barometric Pressure Setting (Minus 800 millibars)~~Target Heading/Track Indicator~~

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bits ~~37~~ 21-29 of the Target State and Status Message ~~is~~ are mapped directly to the Target State Report in the least significant bit of byte ~~11~~ 13 and the 8 bits of byte 14 of that report.

~~2.4.8.3.1.8~~2.4.8.3.1.9 Verification of ~~the Reserved for Heading/Track Capability Field~~Selected Heading (§2.2.8.3.1.9~~2.2.8.3.1.9~~2.2.8.3.1.8~~)

Purpose/Introduction:

The Selected Heading parameter uses the least significant bit within byte 15 and the 8 bits of byte 16 to encode the patameter values specified in §2.2.3.2.7.1.3.7~~A 1-bit field is reserved in the Target State Report for possible future use as a "Heading/Track Capability" field. This field will indicate whether or not the transmitting aircraft has the capability to provide the horizontal guidance target. In the current version of these MOPS, the "Reserved for Heading/Track Capability" field is set to ZERO.~~

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

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Step 2: Verification of Selected Altitude: Selected Heading

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bits 31-39 of the Target State and Status Message are mapped directly to the Target State Report in the least significant bit of byte 15 and the 8 bits of byte 16 of that report.~~Verify that the "Reserved for Heading/Track Capability" field is set to ZERO in each Target State Report.~~

~~2.4.8.3.1.9~~2.4.8.3.1.10 Verification of ~~the Horizontal Intent~~Mode Indicators: ~~Horizontal Mode Indicator~~Autopilot Engaged (§2.2.8.3.1.10~~2.2.8.3.1.10~~2.2.8.3.1.9~~)

Purpose/Introduction:

The Autopilot Engaged parameter uses the least significant bit within byte 17 to encode the patameter values specified in §2.2.3.2.7.1.3.12~~The Horizontal Mode Indicator parameter uses the two (2) least significant bits within byte 13 to encode the parameter values specified in §**Error! Reference source not found.**~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Horizontal Intent~~Mode Indicators: ~~Horizontal Mode Indicator~~Autopilot engaged

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bit~~s~~ 4~~3~~8 ~~and 39~~ of the Target State and Status Message ~~are~~ is mapped ~~bit for bit~~ to the Target State Report in the ~~two~~ least significant bit~~s~~ of byte ~~13~~ 17 of that report.

~~2.4.8.3.1.10~~2.4.8.3.1.11 Verification of ~~the Horizontal Intent~~Mode Indicators: ~~Reserved for Horizontal Conformance Parameter~~VNAV Mode Engaged (§2.2.8.3.1.11~~2.2.8.3.1.11~~2.2.8.3.1.10~~)

Purpose/Introduction:

The VNAV Mode Engaged parameter uses the least significant bit within byte 18 to encode the patameter values specified in §2.2.3.2.7.1.3.13.

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Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of Mode Indicators: Autopilot engaged

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bit 49 of the Target State and Status Message is mapped to the Target State Report in the least significant bit of byte 18 of that report.~~No specific test procedure is required to validate the requirements of §2.2.8.3.1.10~~.

~~2.4.8.3.1.11~~2.4.8.3.1.12 Verification of ~~the Vertical Intent~~Mode Indicators: ~~Vertical Data Available and Vertical Target Source Indicator~~Altitude Hold Mode (§2.2.8.3.1.12~~2.2.8.3.1.12~~~~2.2.8.3.1.11~~)

Purpose/Introduction:

The Vertical Data Available and Vertical Target Source Indicator parameter uses the ~~two~~ least significant bit~~s~~ within byte ~~15~~ 19 to encode the parameter values specified in §2.2.3.2.7.1.3.14~~2.2.3.2.7.1.3.1~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Vertical Intent: Vertical Data Available and Vertical Target Source Indicator~~Mode Indicators: Altitude Hold Mode

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bit~~s~~ ~~8~~ 50~~and 9~~ of the Target State and Status Message ~~are~~ is mapped ~~bit for bit~~ to the Target State Report in the ~~two~~ least significant bit~~s~~ of byte ~~15~~ 19 of that report.

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~~2.4.8.3.1.12~~2.4.8.3.1.13 Verification of ~~the Vertical Intent: Target Altitude~~Mode Indicators: Approach Mode (§2.2.8.3.1.13~~2.2.8.3.1.13~~2.2.8.3.1.12)

Purpose/Introduction:

The ~~Target Altitude~~Approach mode parameter uses the ~~two (2)~~ least significant bit~~s~~ within byte ~~16~~ 20~~and the 8 bits of byte 17~~ to encode the parameter values specified in §2.2.3.2.7.1.3.16~~2.2.3.2.7.1.3.6~~.

Measurement Procedure:

Step 1: Initialization

Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.

Step 2: Verification of ~~Vertical Intent: Target Altitude~~Mode Indicators: Approach Mode

Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bit~~s~~ ~~16~~ 52~~through 25~~ of the Target State and Status Message ~~are~~ is mapped ~~bit for bit~~ to the Target State Report in the ~~two~~ least significant bit~~s~~ of byte ~~16~~ 20~~all 8 bits of byte 17~~ of that report.

~~2.4.8.3.1.13~~2.4.8.3.1.14 Verification of ~~the Vertical Intent: Target Altitude Type~~Reserved Byte (§2.2.8.3.1.14~~2.2.8.3.1.14~~2.2.8.3.1.13)

No Specific test procedure is required to validate the requirements of (§2.2.8.3.1.14)~~Purpose/Introduction:~~

~~The Target Altitude Type parameter uses the least significant bit within byte 18 to encode the parameter values specified in §2.2.3.2.7.1.3.2.~~

~~Measurement Procedure:~~

~~Step 1: Initialization~~

~~Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.~~

~~Step 2: Verification of Vertical Intent: Target Altitude Type~~

~~Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bit 10 of the Target State and Status Message is~~

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~~mapped directly to the Target State Report in the least significant bit of byte 18 of that report.~~

~~2.4.8.3.1.14 Verification of the Vertical Intent: Target Altitude Capability (§2.2.8.3.1.14)~~

~~Purpose/Introduction:~~

~~The Target Altitude Capability parameter uses the two least significant bits within byte 19 to encode the parameter values specified in §2.2.3.2.7.1.3.4.~~

~~Measurement Procedure:~~

~~Step 1: Initialization~~

~~Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.~~

~~Step 2: Verification of Vertical Intent: Target Altitude Capability~~

~~Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bits 12 and 13 of the Target State and Status Message are mapped bit for bit to the Target State Report in the two least significant bits of byte 19 of that report.~~

~~2.4.8.3.1.15 Verification of the Vertical Intent: Vertical Mode Indicator (§2.2.8.3.1.15)~~

~~Purpose/Introduction:~~

~~The Vertical Mode Indicator parameter uses the two (2) least significant bits within byte 20 to encode the parameter values specified in §2.2.3.2.7.1.3.5.~~

~~Measurement Procedure:~~

~~Step 1: Initialization~~

~~Provide valid ADS-B Position and Velocity Messages to the ADS-B Receiving Subsystem such that the ADS-B Report Assembly Function enters the Track State and is outputting Reports to the Report Buffer. Verify that the Report Type Coding bits 7 through 4 of byte 0 are set to THREE (binary 0011) to indicate Target State Report.~~

~~Step 2: Verification of Vertical Intent: Vertical Mode Indicator~~

~~Provide a valid Target State and Status Message to the ADS-B Receiving Subsystem. Verify that ME bits 14 and 15 of the Target State and Status Message~~

~~are mapped bit for bit to the Target State Report in the two least significant bits of byte 20 of that report.~~

~~2.4.8.3.1.16~~~~Verification of the Vertical Intent: Reserved for Vertical Conformance (§2.2.8.3.1.16)~~

~~No specific test procedure is required to validate the requirement of §2.2.8.3.1.16~~.

2.4.8.3.2 Verification of the Air Referenced Velocity (ARV) Report (§2.2.8.3.2)

Appropriate test procedures required to validate the requirements of §2.2.8.3.2 are included in the following subparagraphs.

2.4.8.3.2.1 Verification of the ARV Report Type and Structure Identification and Validity Flags (§2.2.8.3.2.1)

No specific test procedure is required to validate §2.2.8.3.2.1.

2.4.8.3.2.1.1 Verification of the ARV Report Type and Structure Identification (§2.2.8.3.2.1.1)

Purpose/Introduction:

The Report Type requirements are provided in §2.2.8.1.1. The Report Structure field is used to indicate the exact data parameters identified in Table 2-88 that are being provided in the Target State Report and is intended to provide a methodology for implementers to structure concatenated reports when data for some parameters is not available. This test procedure will be used to verify the correct encoding of the Report Structure (ARV Report bits 6 through 13).

Equipment:

Provide a method of supplying the ADS-B Receiving Subsystem with valid ADS-B Messages.

Measurement Procedure:

Step 1: Incapability of Concatenation:

If the Report Assembly Function is implemented such that the ARV Report may be shortened when certain data is not available, skip to Step 2.

If the Report Assembly Function is implemented such that the ARV Report is 14 bytes long regardless of data availability across fields, consecutively provide the ADS-B Receiving Subsystem with valid ADS-B Messages, varying message types appropriately to prompt output of ARV Reports. Ensure that in each valid ADS-B Message provided to the receiver, the “AA” field (message bits 9 through 32) is set to hexadecimal A60DBE.

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