Amphenol® RF

Global RF Solutions

NPI Qualification Test Report

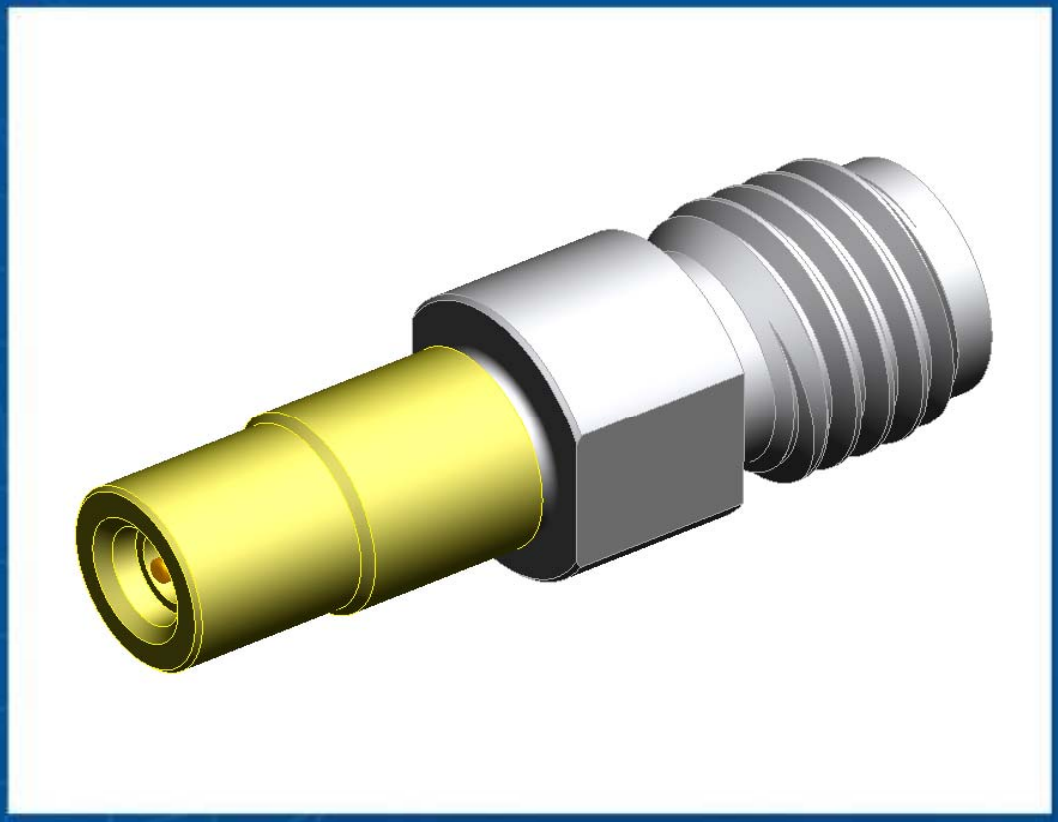
DVT #: 3213 EAR: 5916

DVT Rev: 1 Date: 1/13/2014

SMA Jack to AMC (U.FL) Probe Adapter

Amphenol RF P/N : 901-10465

Rev : A

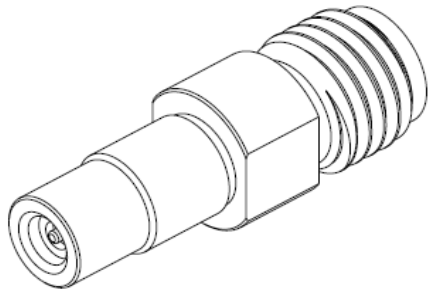


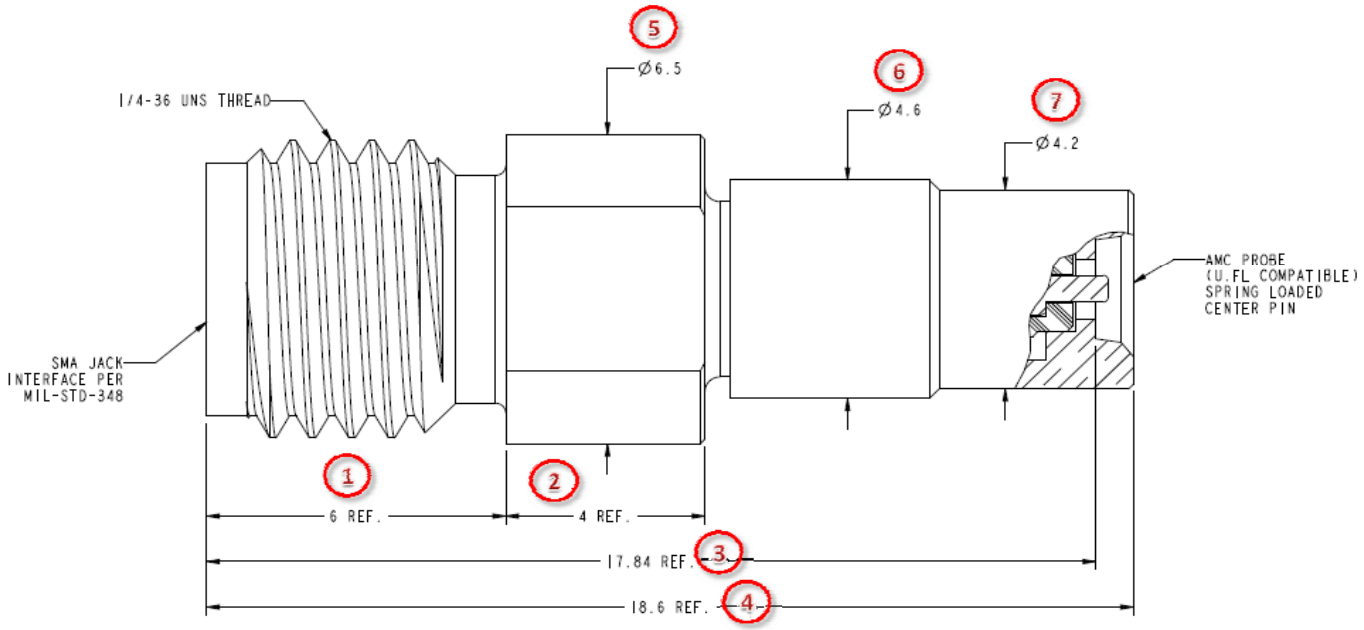
Environmental, Mechanical and Electrical Performance Test Results

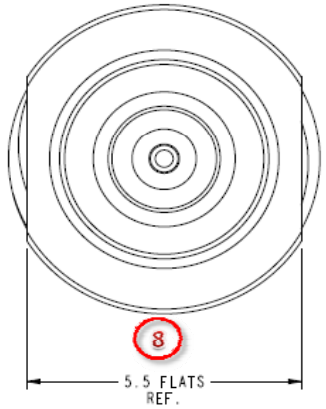
THIRD ANGLE PROJ.

REVISIONS				
REV	DESCRIPTION	DATE	ECO	APPR
A	RELEASE TO MFG.		49879	JTS

NOTES:
1. MATERIALS AND FINISHES:
   BODY - BRASS, NICKEL PLATING
   HOOD - STAINLESS STEEL, GOLD PLATING
   CONTACTS - BERYLLIUM COPPER OR BRASS, GOLD PLATING (4 MICROINCHES MIN)
   INSULATOR - PTFE
2. ELECTRICAL:
   A. IMPEDANCE: 50 OHM
   B. FREQUENCY RANGE: DC - 6 GHz
   C. VSWR: 1.25 MAX.
   D. DIELECTRIC WITHSTANDING VOLTAGE: 250 VRMS, MIN.
3. MECHANICAL:
   A. DURABILITY: 5000 CYCLES MIN.
   B. TEMPERATURE RANGE: -65° C TO +165° C
4. PACKAGING:
   A. QUANTITY: SINGLE PACK
   B. MARKING: BAG TO BE MARKED
      "AMPHENOL RF, 901-10465, AND DATE CODE"







CUSTOMER OUTLINE DRAWING
ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:
<0.5mm ± 0.05mm | 0.5 - 6mm ±0.1mm | 6 - 30mm ±0.2mm | 30 - 120mm ± 0.3mm | ANGLES ±1°

MATERIAL -
REFERENCE EAR #5916
CONFIGURATION LEVEL:
FINISH

DRAWN T. SMITH DATE 04-Oct-13
ENGINEER T. SMITH DATE 04-Oct-13
APPROVED DATE
CAD FILE

TITLE
AMC PROBE (U.FL) TO SMA JACK ADAPTER
SCALE: 10.0:1.0 SHEET 2 OF 2
DWG SIZE B REV A

Amphenol RF
www.amphenolrf.com
DRAWING NO. 901-10465
ITEM NO. 901-10465
PART NO. 901-10465

Amphenol®RF
Global RF Solutions

DESIGN VERIFICATION AND VALIDATION TEST PLAN

Customer:	**Distribution**	**Design Engineer:**	**Todd Smith**
DVT Number:	**3213**	**Program Manager:**	**Rahul Rajan**
DVT Rev:	**1**	**Amphenol PN:**	**901-10465**
EAR Number:	**5916**	**Amphenol Rev:**	**A**
Description:	**SMA Jack to AMC (U.FL) Probe Adapter**		

*Individual Dimensional, Mechanical, Electrical and Environmental tests are part specific and not controlled by this document.

Testing Required by Design Engineer to Verify Design and Validate Product Performance	Description of Testing Requirement	Test Assy's Req.	Assy's that will be lost	Result
Dimensional Tests				
First Article Inspection	As indicated on Customer Outline Drawing.	5	0	Pass
Appearance				
Assembly appearance	Include photo of the complete assembly, to show the appearance.	1	0	Pass
Mechanical Tests				
Component Weight	Product weight in grams.	1	0	Pass
Plating Thickness	The parts must conform to Amphenol Plating spec. 349-50560. Body: nickel plating 100 microinches minimum thickness over copper strike. Hood and contacts: gold plating 5 microinches minimum thickness over 100 microinches minimum high phosphorus electroless nickel.	1	0	Pass
Contact Captivation - Axial	Contact must withstand a 6 Lbf push out force applied from mating direction and meet the interface dimensions shown on dwg.	2	2	Pass
Body Captivation - Axial	Body must withstand an axial force of 20 Lbf and maintain dimensions shown on drawing.	2	2	Pass
Spring Force	Measure spring force when mating to AMC jack (A-1JB).	5	0	Pass
Cycle Testing	Cycle 5000 times by mating to AMC jack (A-1JB). Measure spring force and contact resistance after every 1000 cycles.	5	0	Pass
Electrical Tests				
Contact Resistance	Determine the electrical resistance of both outer conductor crimps and corresponding interface and the inner conductor crimps and corresponding contact interface under low energy conditions; The total contact resistance of inner conductor must not exceed 50 mΩ. Likewise, max contact resistance of the outer conductor must not exceed 50 mΩ.	All	0	Pass
Continuity Test	Verify the DUT shows no open OR short circuits.	All	0	Pass
Dielectric Withstanding Voltage	Demonstrate the connection can withstand momentary over-potentials due to switching, surges and other similar phenomena; Apply 500 VRMS, 60 Hz for 60 seconds. A buzzing noise indicates failure.	All	0	Pass
VSWR / Return Loss	Verify the efficiency of voltage applied to voltage reflected is adequate to the product application; Max VSWR should be 1.25 : 1 @ 6 GHz. Include a screenshot of NA results.	5	0	Pass
Insertion Loss	Verify the total loss of power going through the DUT; record maximum insertion loss. Include a screenshot of NA results.	5	0	Pass
Amphenol Best Practices	Quality shall apply Amphenol Best Practices verification as applicable to this product.	All	0	Pass
Design Engineer Comments:	When required include photo of test equipment when performing a test.			
Total Testing Requirements Identified for Verification of Design Intent and Validation of Customer Requirements		Parts Destroyed		**4**

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FIRST ARTICLE / PART EVALUATION INSPECTION

Amphenol P/N	Revision	Mfg Order #	Mfg Location	Supplier Name	Sup. #	Date
901-10465	A	5525-131108003	Amphenol RF ASIA	-	-	1/13/2014

Customer P/N	Revision	EAR #	Design Eng	Prog. Mgr.	Evaluated BY
-	-	5916	Todd Smith	Rahul Rajan	Michael Li

Part Description	LOT QTY	PO#	DVT Number
SMA Jack to AMC (U.FL) Probe Adapter	100	-	3213

☑ First Article Inspection (all dimensions on COD). ☐ Critical Dimension Inspection Only (defined by Engineering).
☐ Material Environmental Compliance Documented. ☐ AQL Supplier Verification.

Item	Nominal	UCL	LCL	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5	Gage
1	6.00	REF	REF	6.00	5.99	6.00	6.01	6.00	Digital Mic
2	4.00	REF	REF	4.05	4.04	4.06	4.06	4.05	Digital Cal
3	17.84	REF	REF	17.84	17.89	17.86	17.87	17.85	Height Gage
4	18.60	REF	REF	18.62	18.67	18.65	18.66	18.64	Digital Cal
5	6.50	0.20	0.20	6.42	6.43	6.44	6.43	6.42	Digital Cal
6	4.60	0.10	0.10	4.63	4.62	4.60	4.61	4.62	Digital Cal
7	4.20	0.10	0.10	4.20	4.21	4.21	4.20	4.21	Digital Cal
8	5.50	0.10	0.10	5.50	5.51	5.51	5.50	5.50	Digital Cal
9									
10									
11									
12									
13									
14									
15									
16	Cont. (Opens & Shorts)			Pass	Parts were 100 % tested as per DVT requirements.				
17	Hi-Pot test			Pass	Parts were 100 % tested as per DVT requirements.				
18	Orientation			Pass	Parts were checked 100 % as per DVT requirements.				
19	Packaging Type			Single					
20	Packaging QTY			1					
21	Marker #1		Na						
22	Marker #2		Na						
23	Marker #3		Na						
24	Marker #4		Na						
25	Marker #5		Na						
26									

Comments:

Appearance is okay.

Thread has been verified with GO-NOGO gauge, result is acceptable.

PROTOTYPE ENGINEERING VALIDATION

☑ Processed through all assembly steps without major issue.
☐ Additional manufacturing testing and validation required.
☑ Manufacturing Process is ready (Including Work Instructions as needed).

QUALITY ENGINEERING VALIDATION

☑ Measurements and DVT Plan are adequate for product quality.
☐ Process controls (Including inspection plans in place as needed).
☐ Manufacturing equipment is production ready.

PART EVALUATION REPORT DISPOSITION (See comments section for detailed REPAIR or REWORK instructions)

Department	Initials	Date	Signature	Pass	Rework	Fail
Design Engineer	TS	1/13/2014	Todd Smith	☑	☐	☐
Manufacturing Engineer	DW	1/13/2014	Dico Wang	☑	☐	☐
Quality Engineer	ML	1/13/2014	Michael Li	☑	☐	☐
Quality Technician	SS	1/13/2014	Stone Shi	☑	☐	☐

ASSEMBLY APPEARANCE

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
Bao An District, Shen Zhen City, China

Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Include photo of the complete assembly, to show the appearance.

	Signature	Title
	Linas Hu	Quality Technician

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COMPONENT WEIGHT

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
Bao An District, Shen Zhen City, China

Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Test Method/Requirements:

Product weight in grams.

SAM #	REQUIREMENTS	Qty	Grams
1	Weigh one sample and record the data	1	2.03

PLATING THICKNESS

Test Method/Requirements:

The parts must conform to Amphenol Plating spec. 349-50560.
Body: nickel plating 100 microinches minimum thickness over copper strike.
Hood and contacts: gold plating 5 microinches minimum thickness over 100 microinches minimum high phosphorus electroless nickel.

SAM #	REQUIREMENTS	QTY	RESULT
	BODY: NICKEL PLATE 100 MICROINCHES MIN THICK OVER COPPER STRIKE.	1	Ni = 106.2 µin
	CONTACT: GOLD PLATE 5 MICROINCHES MIN THICK OVER PHOSPHORUS CONTENT (9%-13%) ELECTROLESS NICKEL PLATE 100 MICROINCHES MIN THICK	1	Au = 6.22 µin
	CONTACT: GOLD PLATE 5 MICROINCHES MIN THICK OVER PHOSPHORUS CONTENT (9%-13%) ELECTROLESS NICKEL PLATE 100 MICROINCHES MIN THICK	1	Au = 6.17 µin
	BODY: GOLD PLATE 5 MICROINCHES MIN THICK OVER PHOSPHORUS CONTENT (9%-13%) ELECTROLESS NICKEL PLATE 100 MICROINCHES MIN THICK	1	Au = 7.39 µin

Jadever ® JBX-1.5K Electronic Balance *Instrument range: 0 ~ 1500g.*

Fischerscope® XDAL, this instrument is an energy-dispersive X-ray fluorescence spectrometer capable of performing both quantitative element analysis and thickness measurement in one integrated measurement system. The XDAL can analyze solid samples, as well as powder, paste-like materials and liquids for up to 24 elements from Al (Z=13) to U (Z=92). In addition, coating thickness and composition of complex multi-layer coating systems with up to 24 different coating layers can be measured.

	Signature	Stone Shi	Title	Quality Technician

BODY CAPTIVATION - AXIAL

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
Bao An District, Shen Zhen City, China

Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Test Method and Specification:

Body must withstand an axial force of 20 Lbf and maintain dimensions shown on drawing.

SAMPLE #	REQUIREMENTS	QTY Tested	Force	Dim (mm)	Fail
1	As above.	1	20	18.62	Pass
2		1	20	18.65	Pass

CONTACT CAPTIVATION - AXIAL

Test Method and Specification:

Contact must withstand a 6 Lbf push out force applied from mating direction and meet the interface dimensions shown on dwg.

SAMPLE #	REQUIREMENTS	QTY Tested	Force	Dim (mm)	Fail
1	As above.	1	6	0.06	Pass
2		1	6	0.08	Pass

CDI 1502LDIN Dial Torque Wrench
Amphenol RF Asia's CDI 1502LDIN Dial Torque Wrench can test Torque Force with accuracy.
The range of the instrument is:
0 ~ 150 in-lb / 0 ~ 2421 in-oz.

KQL® KD / Series Mechanical Force Tester
Amphenol RF and *Amphenol RF Asia's* KQL® K / Series Mechanical Force Tester is
utilized for tensile and compression testing up to 200 Lbs capacities.

	Signature	Title
	RX Zhao	Assistant Engineer

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Contact Mating Force

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
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Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Test Method and Specification:

Measure spring force when mating to AMC jack (A-1JB).

SAMPLE #	REQUIREMENTS	QTY Tested	Force (N)	Result
1	As above.	1	3.8	Pass
2		1	2.8	Pass
3		1	3.3	Pass
4		1	3.2	Pass
5		1	3.1	Pass

CONTACT MATING CYCLES

Test Method and Specification:

Cycle 5000 times by mating to AMC jack (A-1JB). Measure spring force and contact resistance after every 1000 cycles.

SAMPLE #	REQUIREMENTS	Cycles	Spring Force	LLCR	Result
1	Measure spring force and contact resistance after every 1000 cycles.	1000	2.4	32.8	Pass
		2000	2.4	34.1	Pass
		3000	2.2	36.8	Pass
		4000	2.2	28.5	Pass
		5000	2.0	32.2	Pass
2	Measure spring force and contact resistance after every 1000 cycles.	1000	2.7	24.5	Pass
		2000	2.3	17.2	Pass
		3000	2.0	18.4	Pass
		4000	2.2	18.7	Pass
		5000	2.2	16.1	Pass
3	Measure spring force and contact resistance after every 1000 cycles.	1000	2.9	16.6	Pass
		2000	2.8	20.7	Pass
		3000	2.8	17.8	Pass
		4000	2.6	16.4	Pass
		5000	2.6	13.7	Pass

Zwick Testing Machines
Single column testing machine for tensile, compression and cyclic testing up to 2.5kN (562 lbf).

	Signature	Title
	RX Zhao	Assistant Engineer

Amphenol RF
Global RF Solutions

CONTACT RESISTANCE

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
Bao An District, Shen Zhen City, China

Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Test Method/Requirements:
Determine the electrical resistance of both outer conductor crimps and corresponding interface and the inner conductor crimps and corresponding contact interface under low energy conditions; The total contact resistance of inner conductor must not exceed 50 mΩ. Likewise, max contact resistance of the outer conductor must not exceed 50 mΩ.

SAMPLE #	REQUIREMENTS	INNER LLCR	OUTER LLCR	QTY Tested	RESULT
1	As above.	32.8	19.0	1	Pass
2		24.5	23.0	1	Pass
3		16.6	19.0	1	Pass

High Resolution *380560* MilliOhm Meter
Provide 7 ranges for wide 20.00mΩ to 20.00kΩ low resistance measurements

Analog high voltage Megohmmeter T0004 has two test voltages: 50V and 500V.

	Signature	Title
	RX Zhao	Assistant Engineer

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VSWR / RETURN LOSS

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
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Supplier	Part Number	Rev Level	DVT #	EAR #
Amphenol RF ASIA	901-10465	A	3213	5916

Name of Laboratory	Part Name	Date of Test
Amphenol RF ASIA	SMA Jack to AMC (U.FL) Probe Adapter	January 13, 2014

Test Method/Requirements:

Verify the efficiency of voltage applied to voltage reflected is adequate to the product application; Max VSWR should be 1.25 : 1 @ 6 GHz. Include a screenshot of NA results.

SAMPLE #	REQUIREMENTS	VSWR 1		Pass	Fail
1	VSWR 1.2:1 from DC to 6 GHz.	1.19		Pass	
2		1.17		Pass	
3		1.19		Pass	
4		1.20		Pass	
5		1.19		Pass	
After 5000 cycles:					
1	VSWR 1.2:1 from DC to 6 GHz.	1.16		Pass	
2		1.16		Pass	
3		1.18		Pass	

INSERTION LOSS

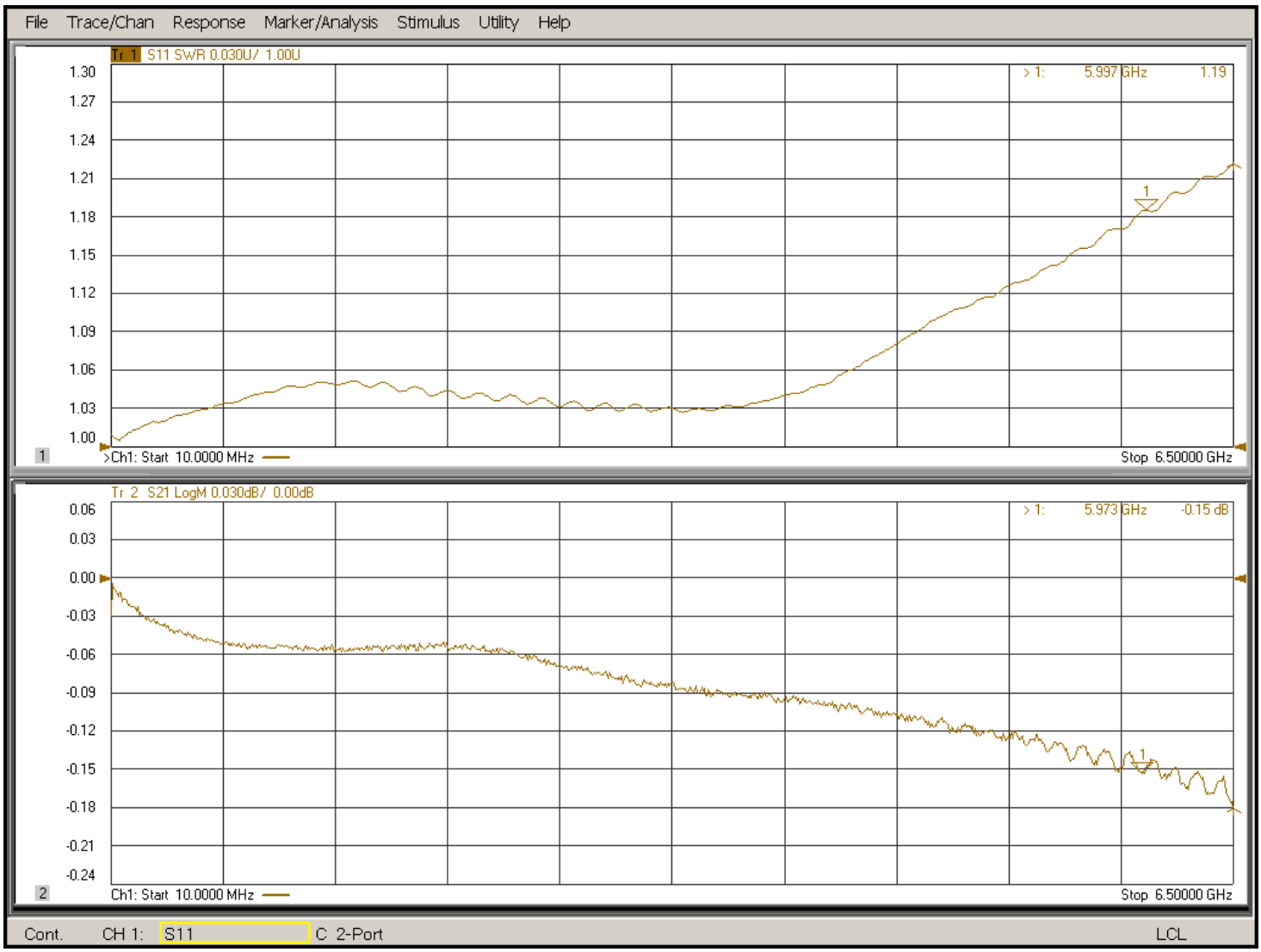
Test Method/Requirements:

Verify the total loss of power going through the DUT; record maximum insertion loss. Include a screenshot of NA results.

SAMPLE #	REQUIREMENTS	dB		Pass	Fail
1	Record maximum insertion loss.	0.15		Pass	
2		0.15		Pass	
3		0.13		Pass	
4		0.13		Pass	
5		0.16		Pass	
After 5000 cycles:					
1	Record maximum insertion loss.	0.15		Pass	
2		0.19		Pass	
3		0.15		Pass	

Agilent ® N5230A Network Analyzer
Amphenol RF and Amphenol RF Asia's N5230A Network Analyzer apply to test the electrical characteristics, include: Voltage Standing Wave Ratio, Insertion Loss, Return Loss, Smith Chart, etc.

	Signature	Title
	RX Zhao	Assistant Engineer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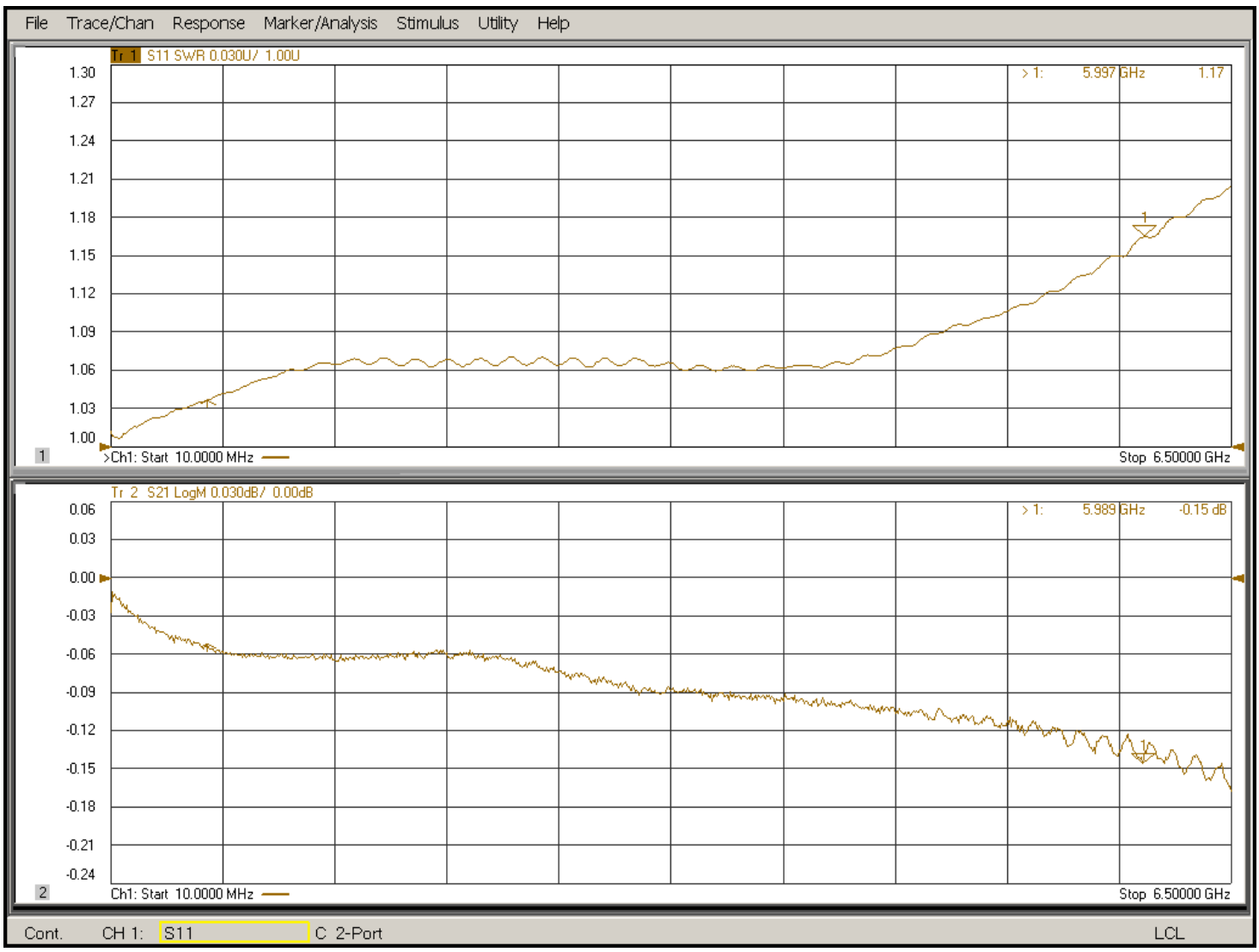
Tr 1 S11 SWR 0.030U/ 1.00U
> 1: 5.997 GHz 1.19
1.30
1.27
1.24
1.21
1.18
1.15
1.12
1.09
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.973 GHz -0.15 dB
0.06
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL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1.30
1.27
1.24
1.21
1.18
1.15
1.12
1.09
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.989 GHz -0.15 dB
0.06
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
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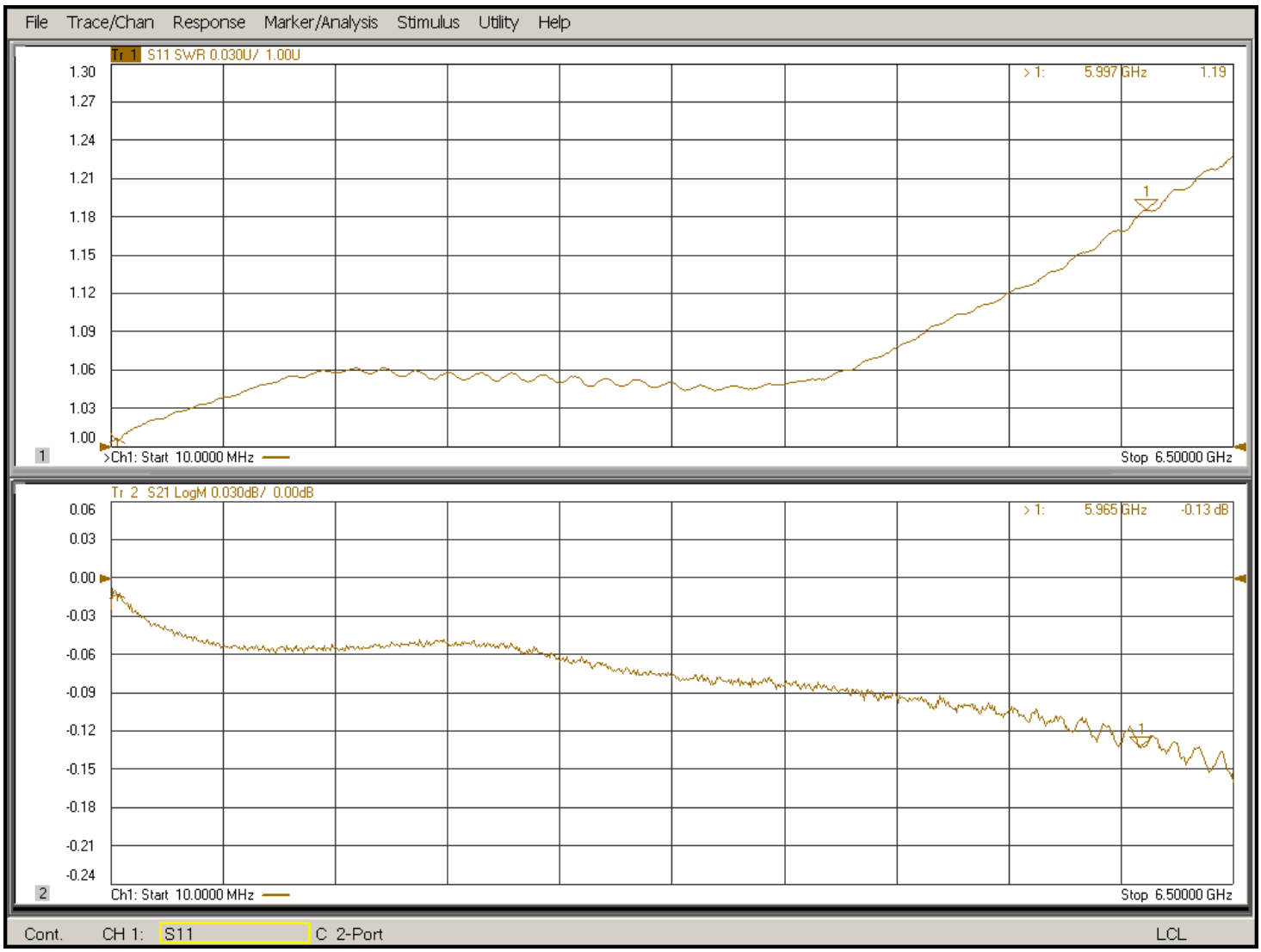
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL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>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.965 GHz -0.13 dB
0.06
0.03
0.00
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-0.06
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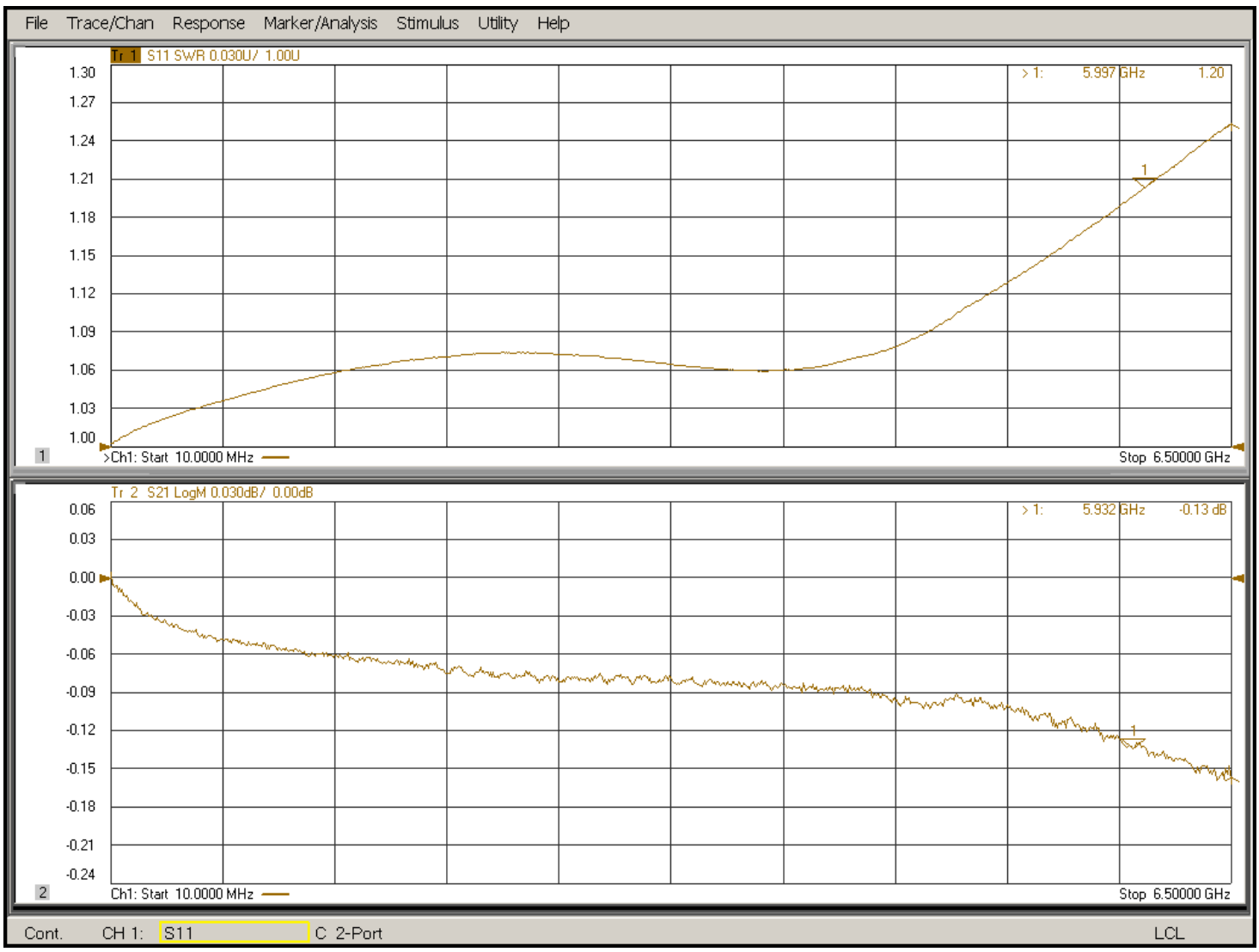
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL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1.30
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1.24
1.21
1.18
1.15
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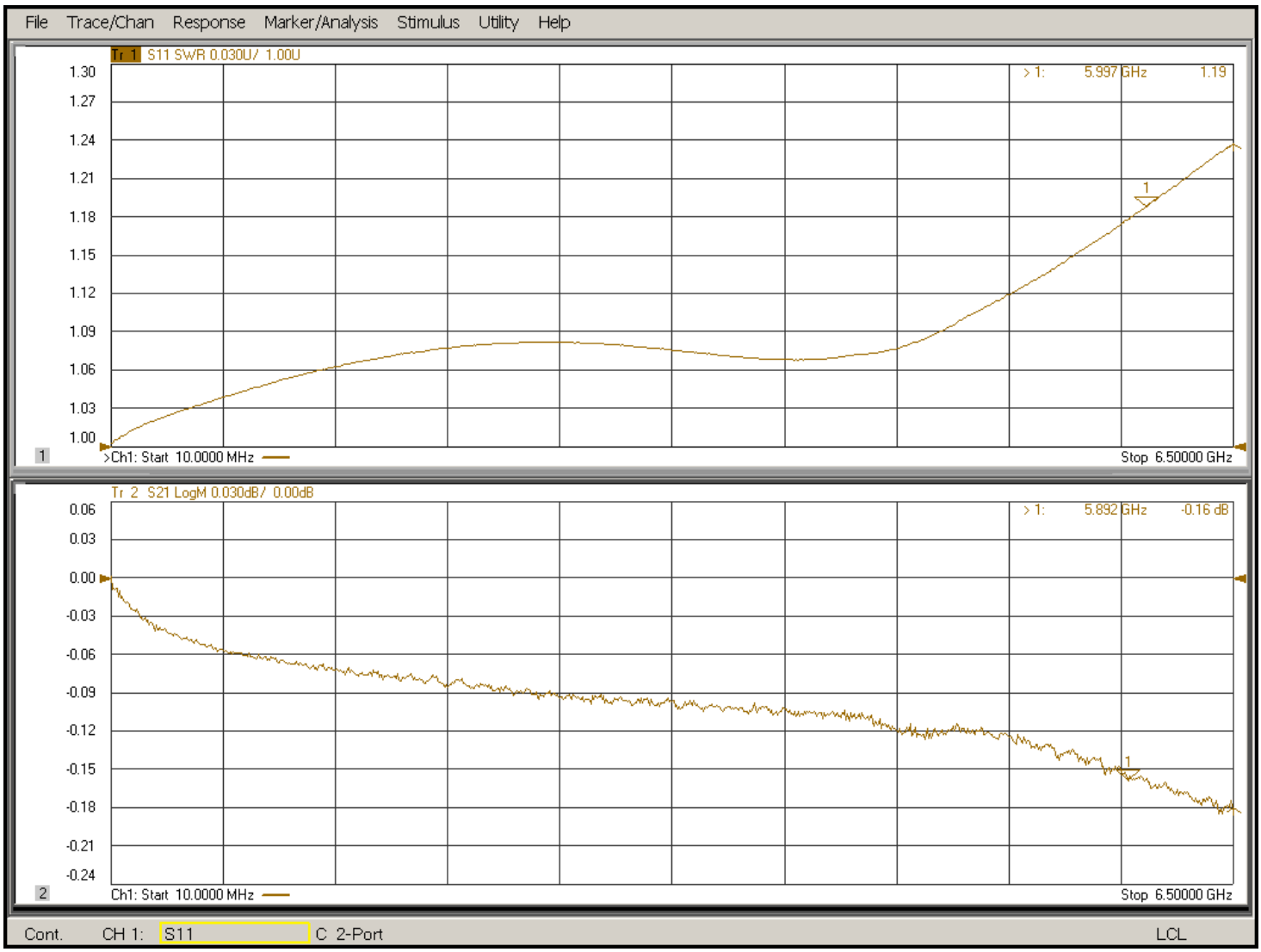
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.932 GHz -0.13 dB
0.06
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL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1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.892 GHz -0.16 dB
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0.00
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-0.06
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-0.24
2
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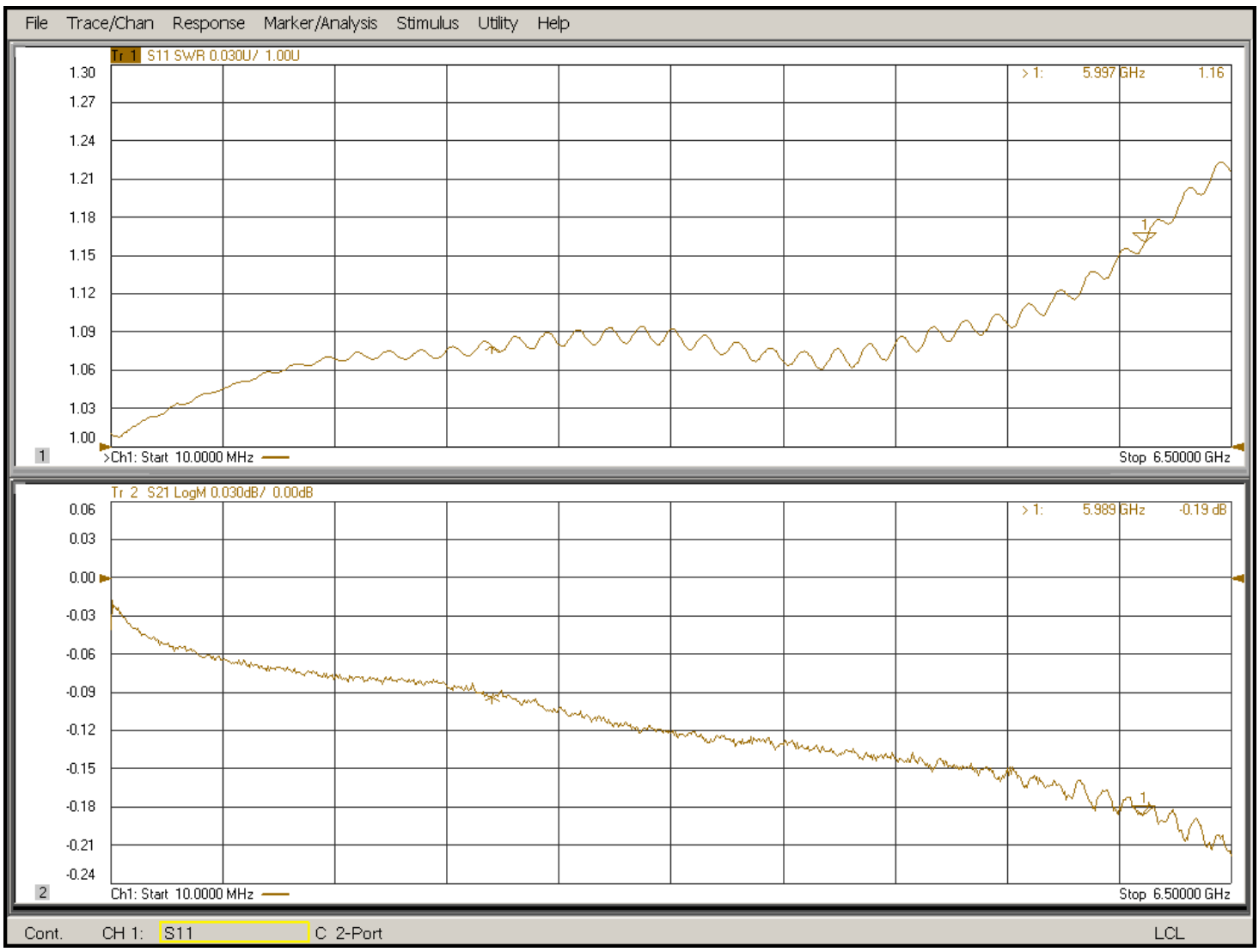
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL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Tr 1 S11 SWR 0.030U/ 1.00U
> 1: 5.997 GHz 1.16
1.30
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1.24
1.21
1.18
1.15
1.12
1.09
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.989 GHz -0.19 dB
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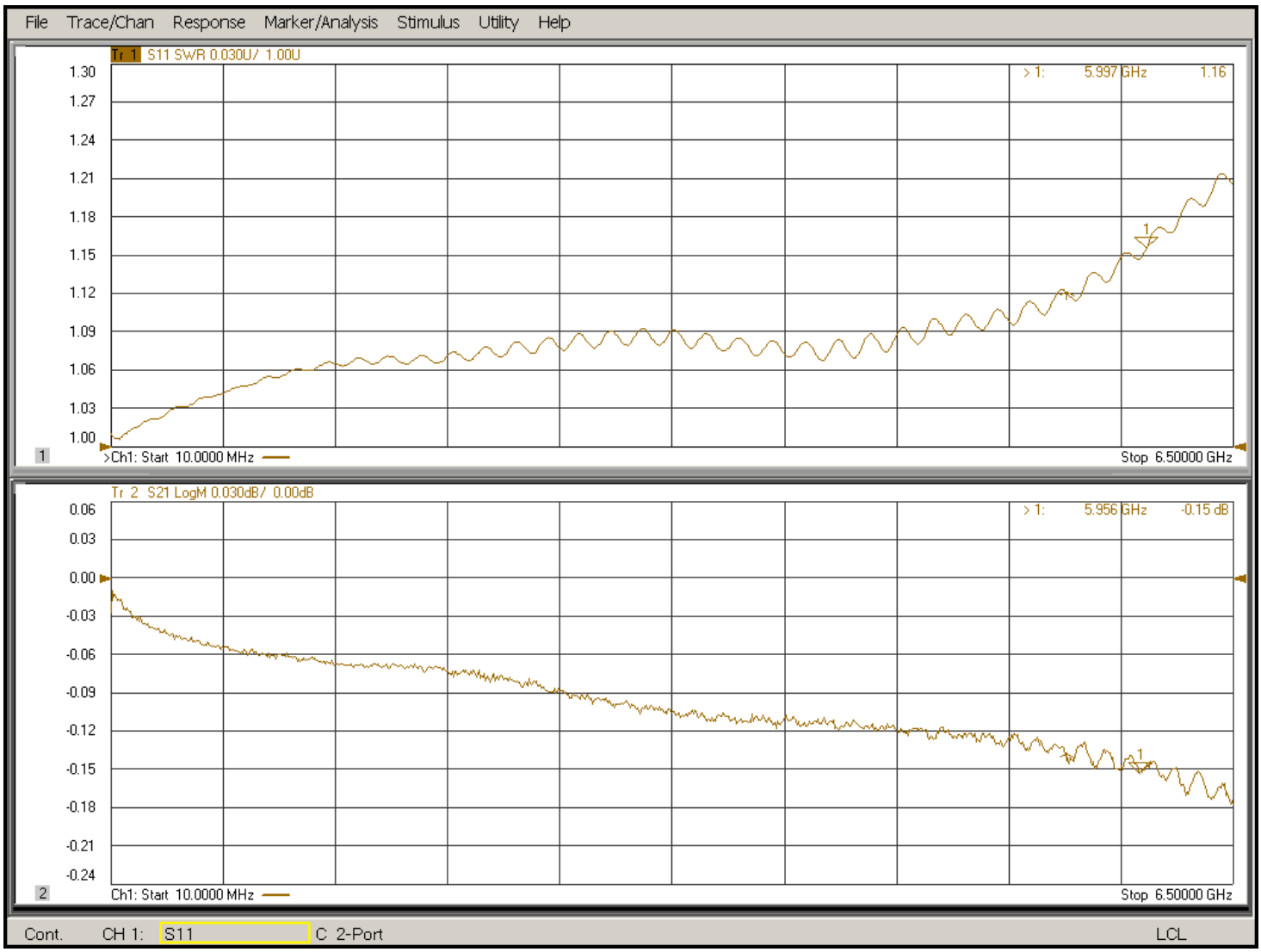
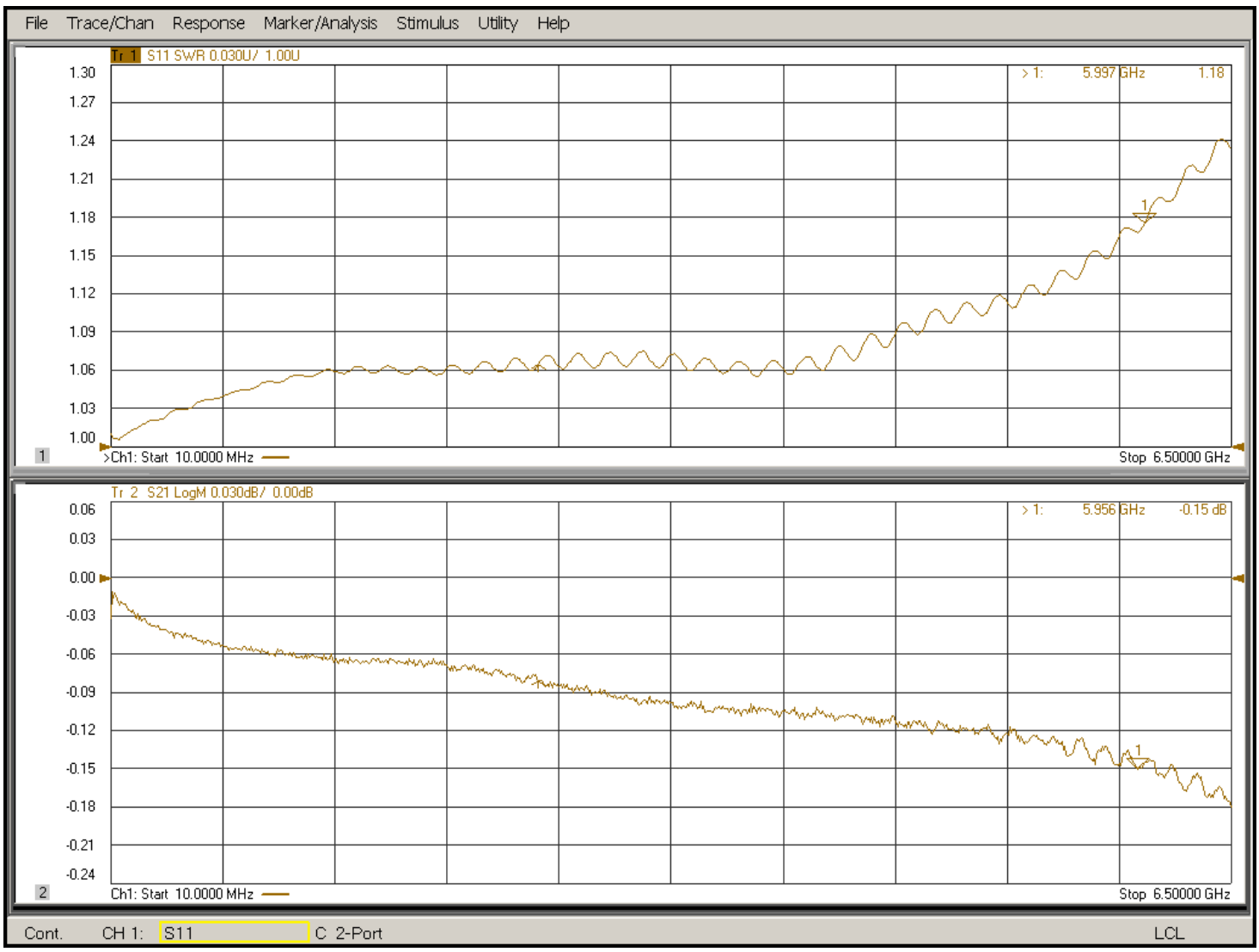
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL


File Trace/Chan Response Marker/Analysis Stimulus Utility Help
Tr 1 S11 SWR 0.030U/ 1.00U
> 1: 5.997 GHz 1.16
1.30
1.27
1.24
1.21
1.18
1.15
1.12
1.09
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.956 GHz -0.15 dB
0.06
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL


File Trace/Chan Response Marker/Analysis Stimulus Utility Help
Tr 1 S11 SWR 0.030U/ 1.00U
> 1: 5.997 GHz 1.18
1.30
1.27
1.24
1.21
1.18
1.15
1.12
1.09
1.06
1.03
1.00
1
>Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Tr 2 S21 LogM 0.030dB/ 0.00dB
> 1: 5.956 GHz -0.15 dB
0.06
0.03
0.00
-0.03
-0.06
-0.09
-0.12
-0.15
-0.18
-0.21
-0.24
2
Ch1: Start 10.0000 MHz
Stop 6.50000 GHz
Cont. CH 1: S11 C 2-Port LCL

Amphenol RF
Global RF Solutions

REVISION HISTORY

Amphenol RF ASIA
Block DM2 Tang Wei Industrial, General CO.Gong Ming Town,
Bao An District, Shen Zhen City, China

	Dates:	Signatures:	
Prepared by: Todd Smith	January 13, 2014	Todd Smith	
Eng Approval: Ken Capozzi	January 13, 2014		
NPI Approval:	January 13, 2014		

Design Verification Test Report

DVT Number: 3213
EAR Number: 5916
Amphenol Part Number: 901-10465
Product Revision: 2
Part Description: SMA Jack to AMC Probe Adapter

DVT Revision History

1	Initial Release	January 13, 2014

Ship Acceptance/Approval

	Dates	Signatures	
QA Approval: Fred Silva	January 13, 2014		
Administrative Approval: Greg Straiton	January 13, 2014		