



Description: Compression connector, SignalTight, AquaTight, F male.
(Measured with PPC P6CBS90QVRM cable.)

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	Better Than	Measured – Worst case of 5 measurements		
Return Loss of connector -Gated	35 dB	≥ 38.0 dB	5 MHz – 500 MHz	IEC 61169-1
	33 dB	≥ 36.4 dB	500 MHz – 860 MHz	
	32 dB	≥ 35.6 dB	860 MHz – 1.000 MHz	
	29 dB	≥ 31.5 dB	1.000 MHz – 1.750 MHz	
	28 dB	≥ 30.8 dB	1.750 MHz – 2.150 MHz	
	23 dB	≥ 26.7 dB	2.150 MHz – 3.000 MHz	
		29.4 dB	1218 MHz	
Return Loss of Assembly	28 dB	≥ 31.8 dB	5 MHz – 500 MHz	
	27 dB	≥ 30.5 dB	500 MHz – 860 MHz	
	25 dB	≥ 28.5 dB	860 MHz – 1.000 MHz	
	23 dB	≥ 26.4 dB	1.000 MHz – 1.750 MHz	
	20 dB	≥ 23.5 dB	1.750 MHz – 2.150 MHz	
	18 dB	≥ 21.0 dB	2.150 MHz – 3.000 MHz	
		29.4dB	1218 MHz	
Insertion Loss	0.13 dB	0.1 dB	5 MHz- 3000 MHz	
Shielding Effectiveness of connector. (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		≤ 0.1 m Ω /item	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ 124.1 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 120.7 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 105.6 dB	IEC 62153-4-4
	Class: A++			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	≤ 4 A.			
Dielectric Strength	≥ 2 kV.			IEC 61169-1
Insulation Resistance	≥ 29.99 G Ω @ 500 V.			IEC 61169-1

Environmental

	Specification	Standard
Temperature range Operating	-40°C to +60°C	
Temperature range Installation	-5°C to +50°C	
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
Interface	F male	IEC 61169-24
Cable Retention	≥ 35 kgf	ANSI/SCTE 99
Approved Compression Tool	VT150DK-rev 2, VT-300 & CT2-AS-EX	

Material and Finish

	Specification	Standard
Housing	Ni (Nickel) plated Brass	ASTM B605
O`rings	EPDM	ANSI/SCTE 99

In order to continue to supply the best products, PPC reserves the right to change the products and specifications at any time without prior notice.

Measurement setup:

Nm-Ff, **EX6WSNTPLUS** – cable – **EX6WSNTPLUS**, Nm-Ff.

All measurements are done with connectors mounted on. PPC Perfect Flex (P6CBS90QVRM) cable, length 1.0 meter.

All results are the worst case result of measurement of 5 assemblies.

All tests are performed using instruments calibrated in accordance to ISO 9001 certification.

Return Loss, Insertion Loss and Shielding are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards.

Shielding effectiveness of connector is measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 1 connector mounted on 3 cm cable.

CPD (Common Path Distortion) are measured with, Rohde & Schwarz FPC1000 Spectrum Analyser, according to SCTE standard.

In case of over current (≥ 4 A.) there is a risk for high temperature inside the connector, which can cause damage of the cable or connector.

Further test reports, technical specifications and installation instructions can be obtained on request.



Test of: Coupling transfer function (Ed.2)

Information for test

Test Job: 19-2006 Operator: J. Aabo Measurement: 04.03.2019 10:47:35
 Test set-up: Triaxial set-up according EN 50289-1-6/IEC 61196-1
 Remark:

Device under test

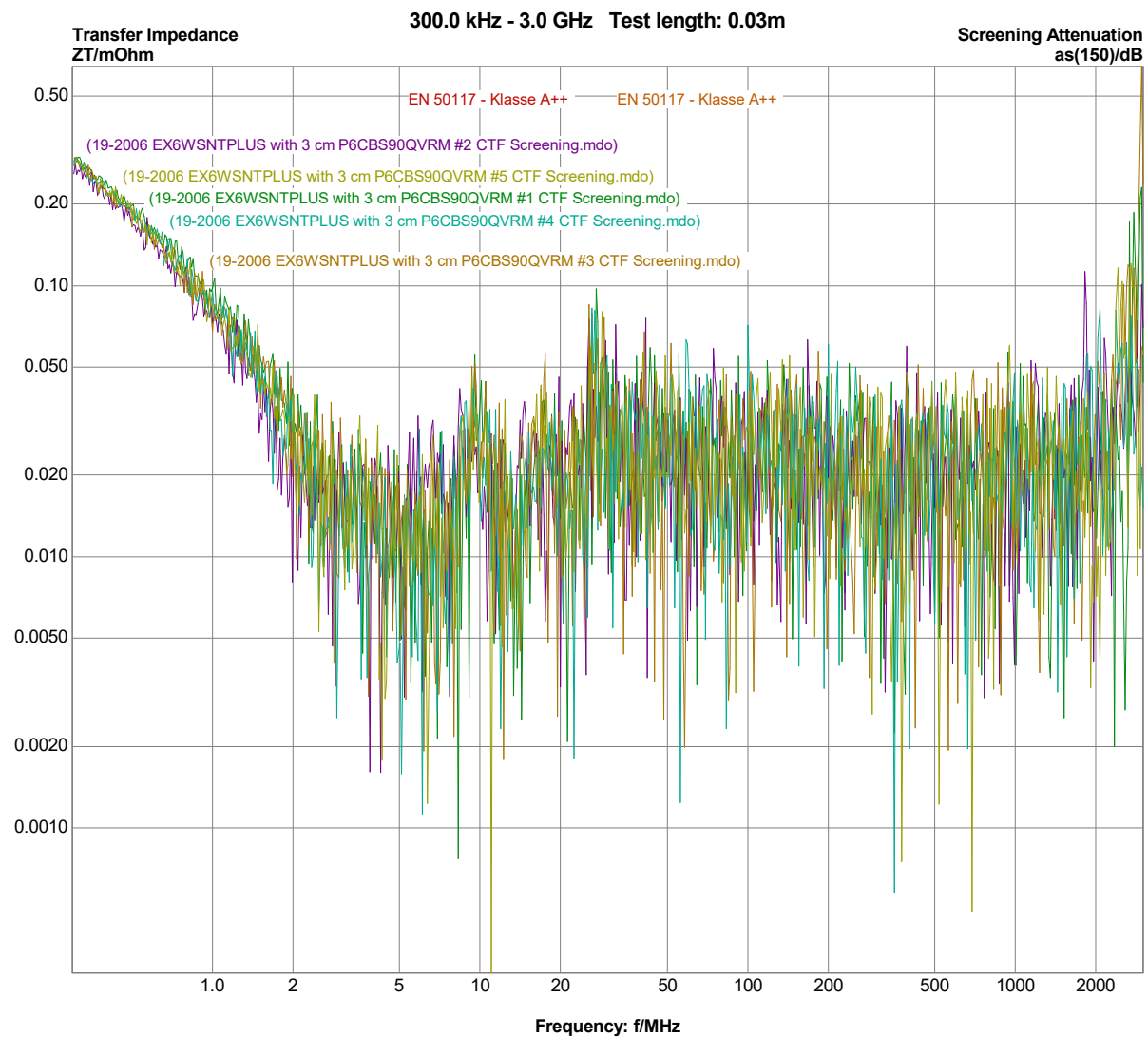
Item Number: Cable type: EX6WSNTPLUS with 3 cm P6CBS90QVRM #1
 Type: coaxial Zw: 75.0 Ohm
 Test length: 0.03 m Eps r: 1.3

Test parameter

Start frequency: 100.0 kHz Gen. Power: 10.0 dBm Add. parameter of transfer impedance:
 Stop frequency: 3.0 GHz Atten.(P1/P2): 5.7 dB Test-setup: Short-Matched
 Number of points: 801 R1(Z1): 75.0 Ohm
 Distance of points: log R2: 0.0 Ohm Eps r2: 0.0
 IF-BW: 10 Hz Rp --- Z2: 0.0 Ohm
 Z(NWA): 50.0 Ohm Rs: --- lex: 0.0 m

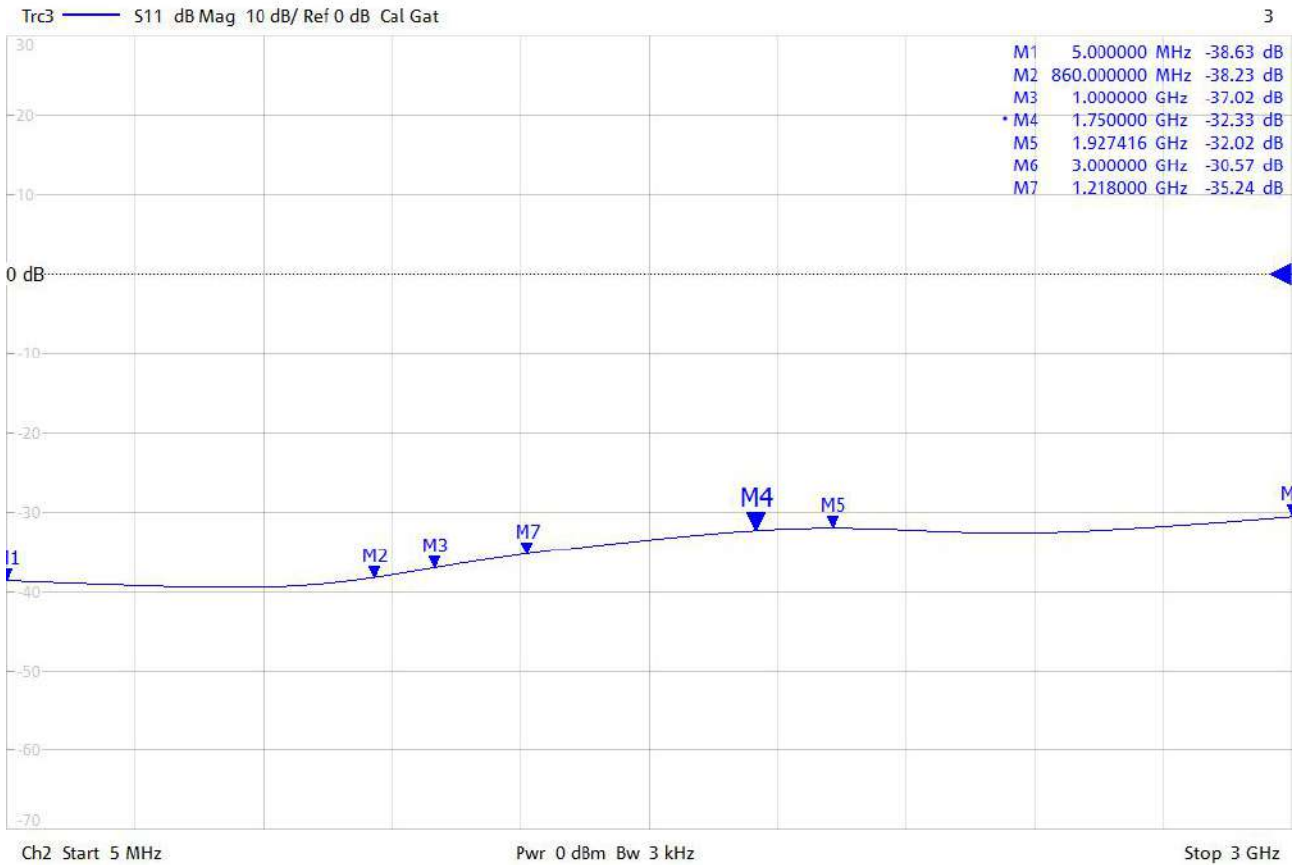
Test diagram

Coupling transfer function (Ed.2) EX6WSNTPLUS with 3 cm P6CBS90QVRM #1



3/4/2019 10:17:04 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #1 Gated



Sample No: 1

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss Gated

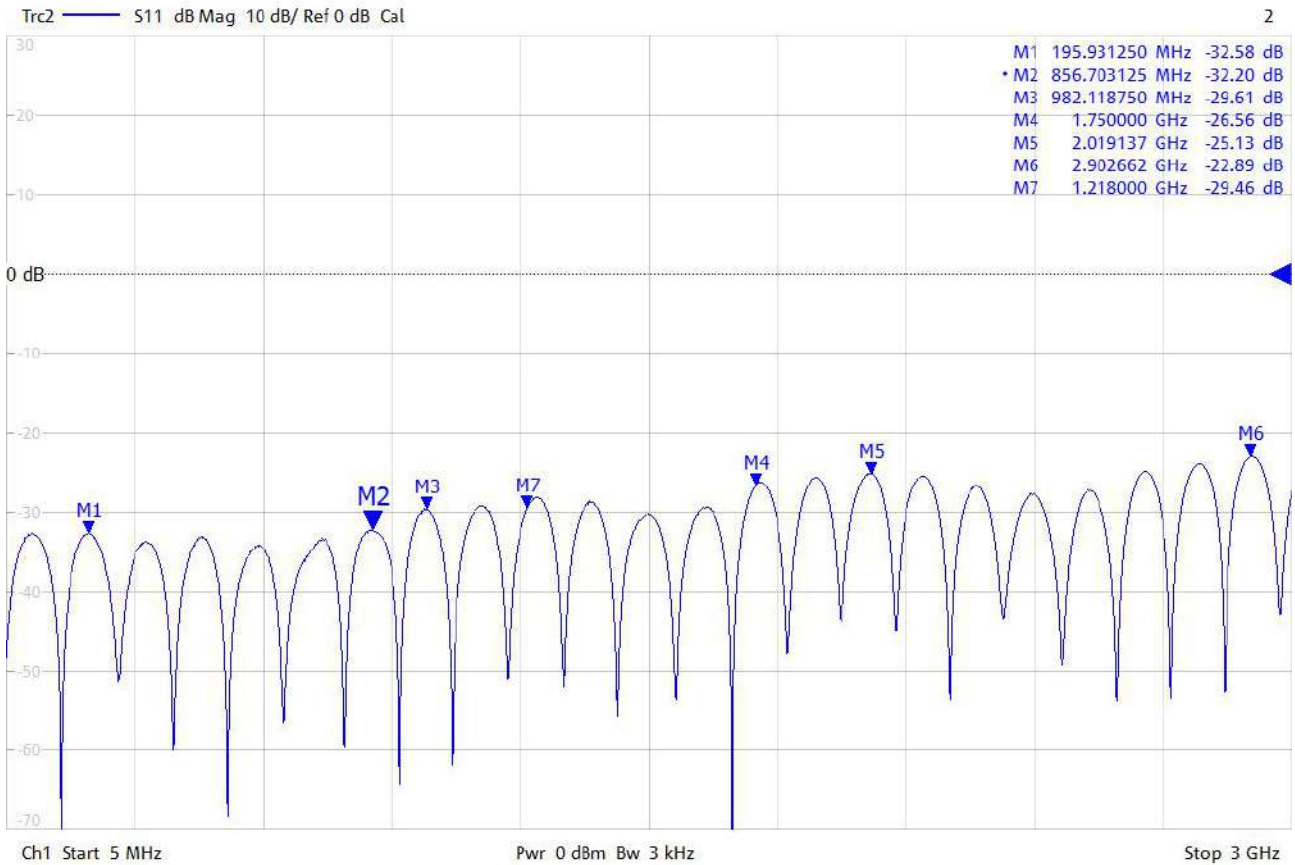
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:16:59 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #1 Assembly



Sample No: 1

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss

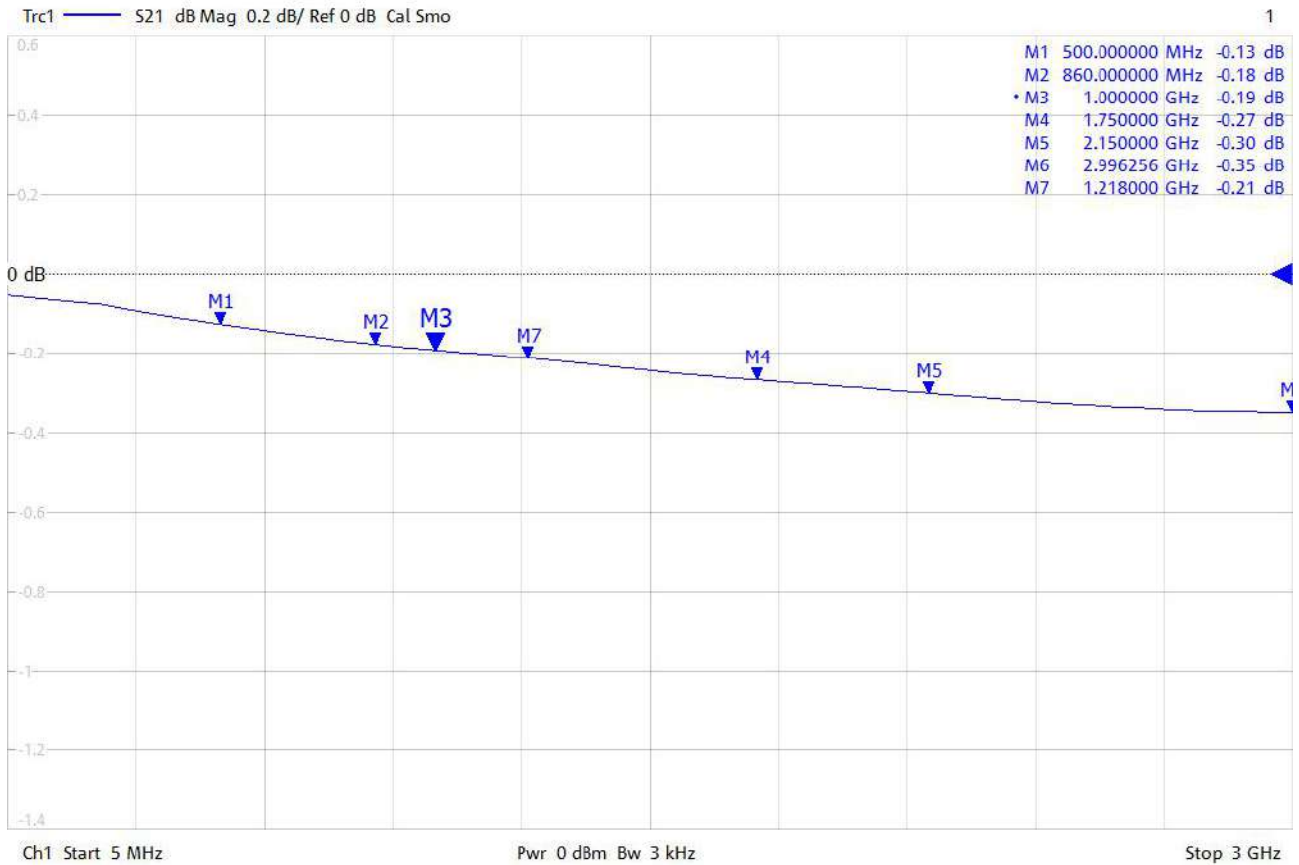
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:16:54 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #1 Assembly



Sample No: 1

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff

Measurement: Insertion Loss

Tested by: J. Bredskov

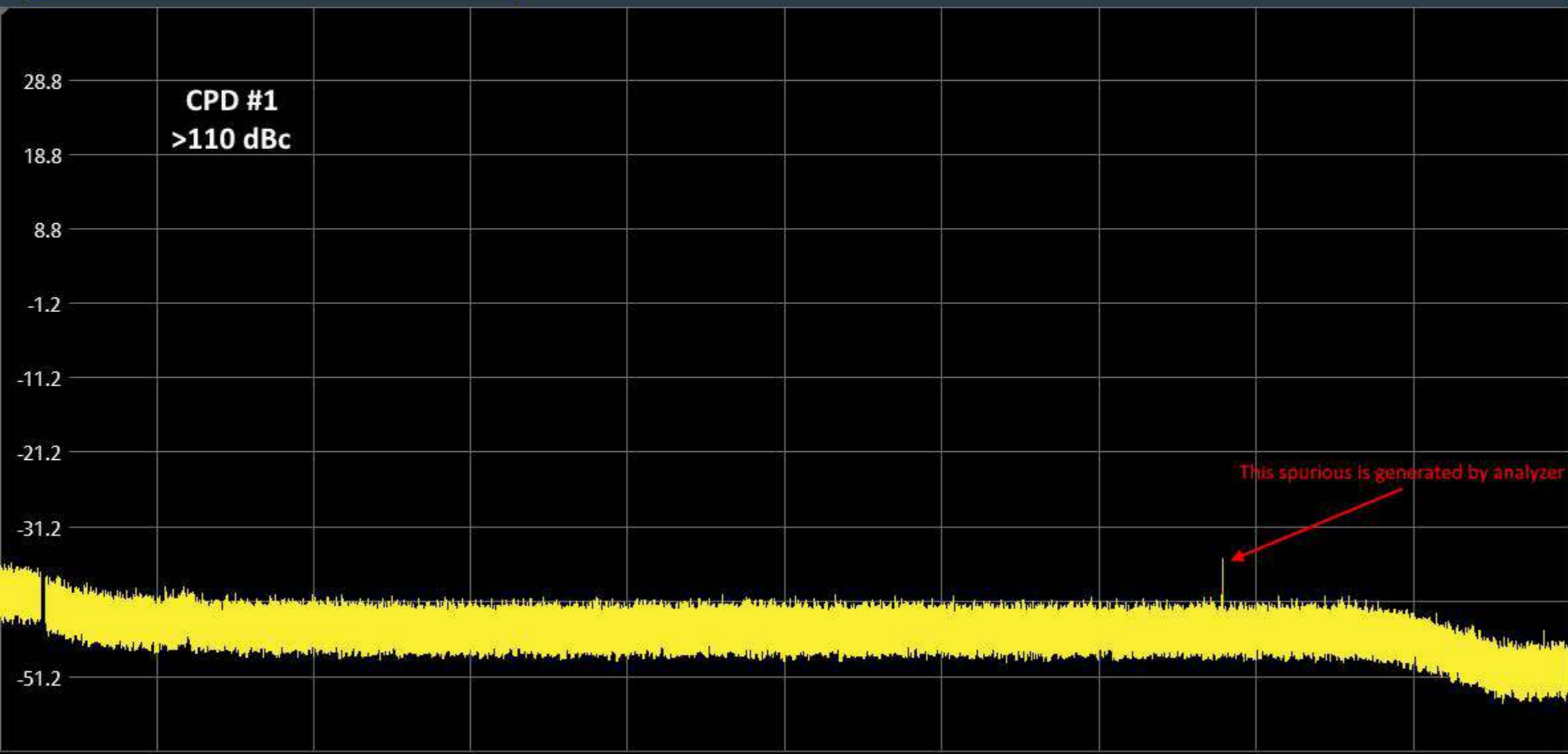
Project No: 19-2006

Remarks:

REF: 38.8 dBmV RBW: 30 kHz VBW: 1 kHz SWT: 7.67 s
ATT: 0 dB Trigger: Free

1 AP Max

M1 456 MHz M2 450 MHz



Start 5 MHz

Stop 97 MHz

Save

Recall

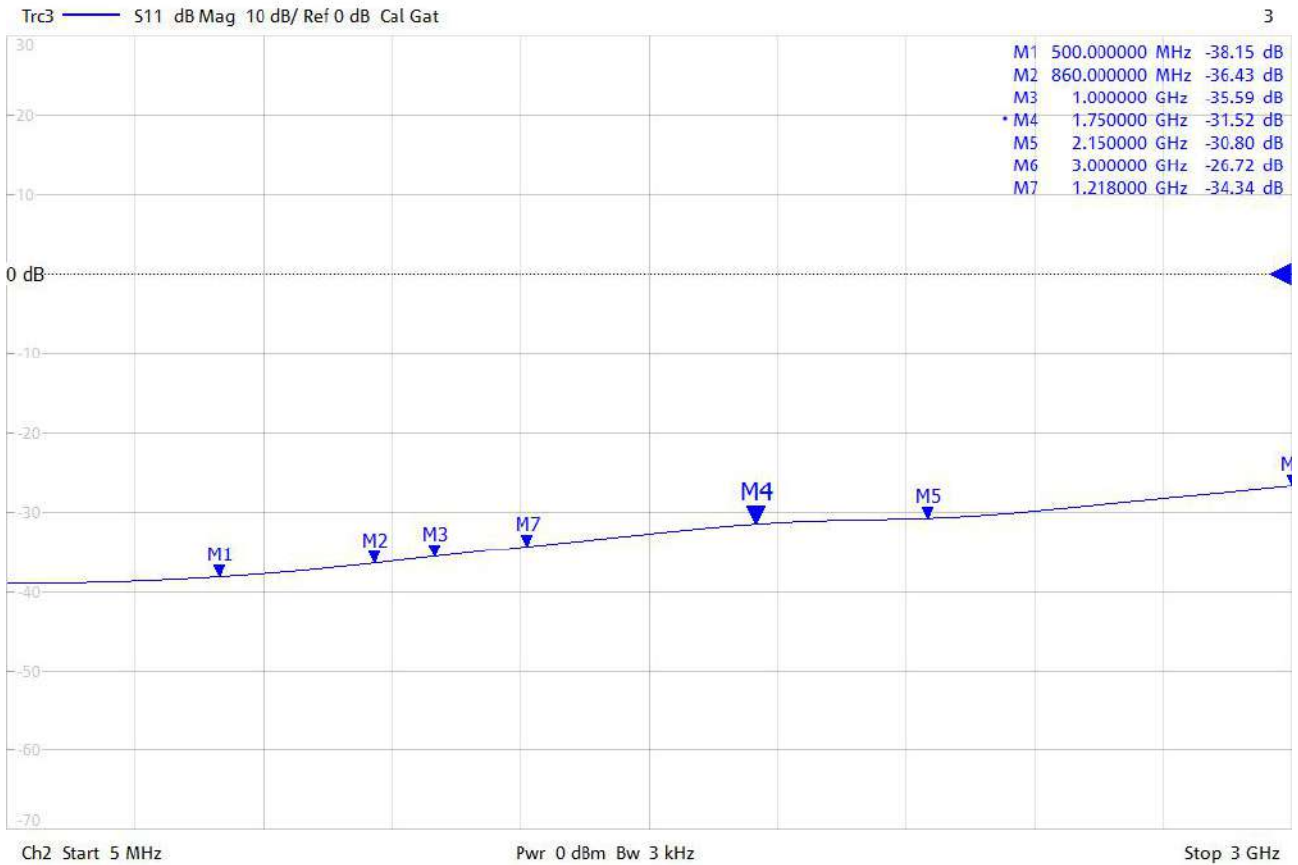
Recall Screenshot

Wizard

File Manager

3/4/2019 10:18:41 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #2 Gated



Sample No: 2

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss Gated

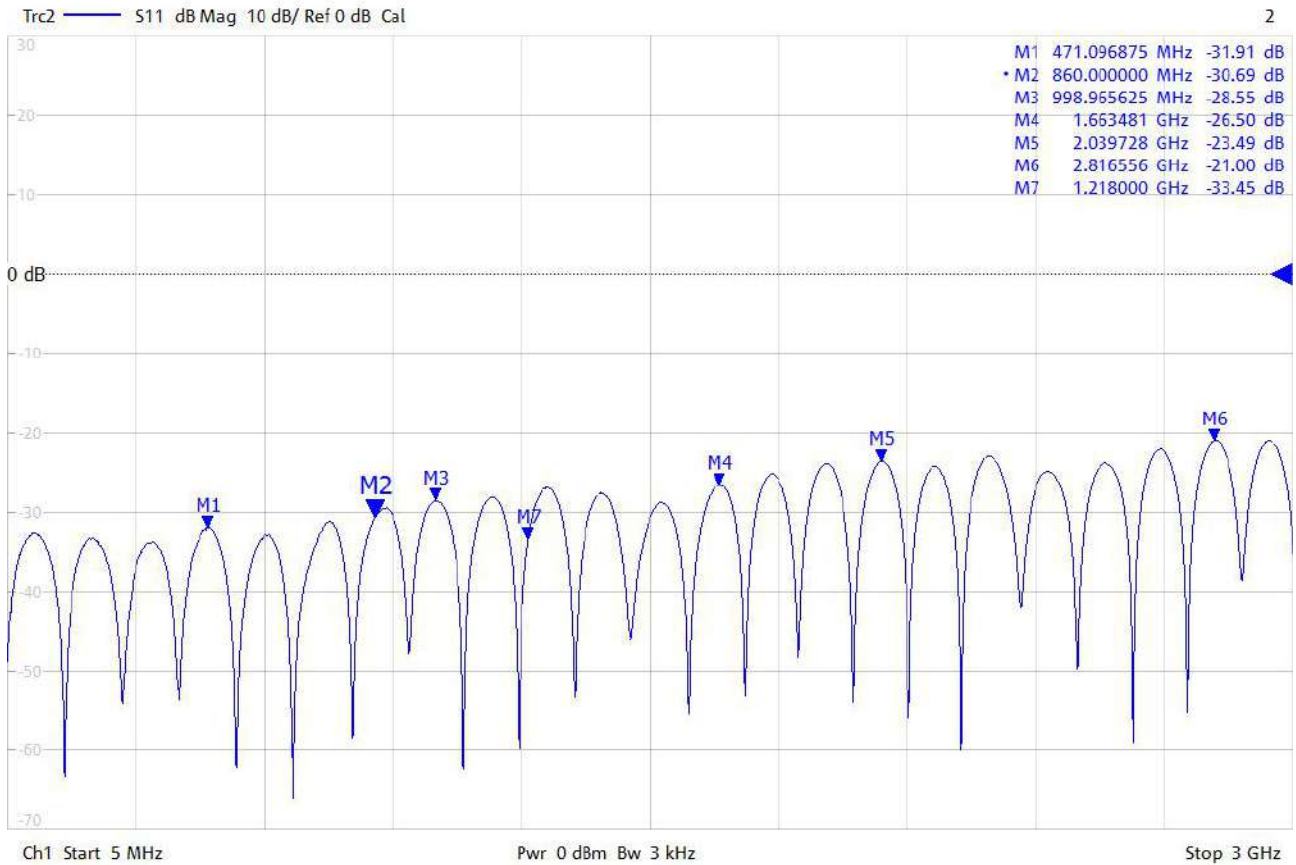
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:18:36 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #2 Assembly



Sample No: 2

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss

Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:18:32 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #2 Assembly



Sample No: 2

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff

Measurement: Insertion Loss

Tested by: J. Bredskov

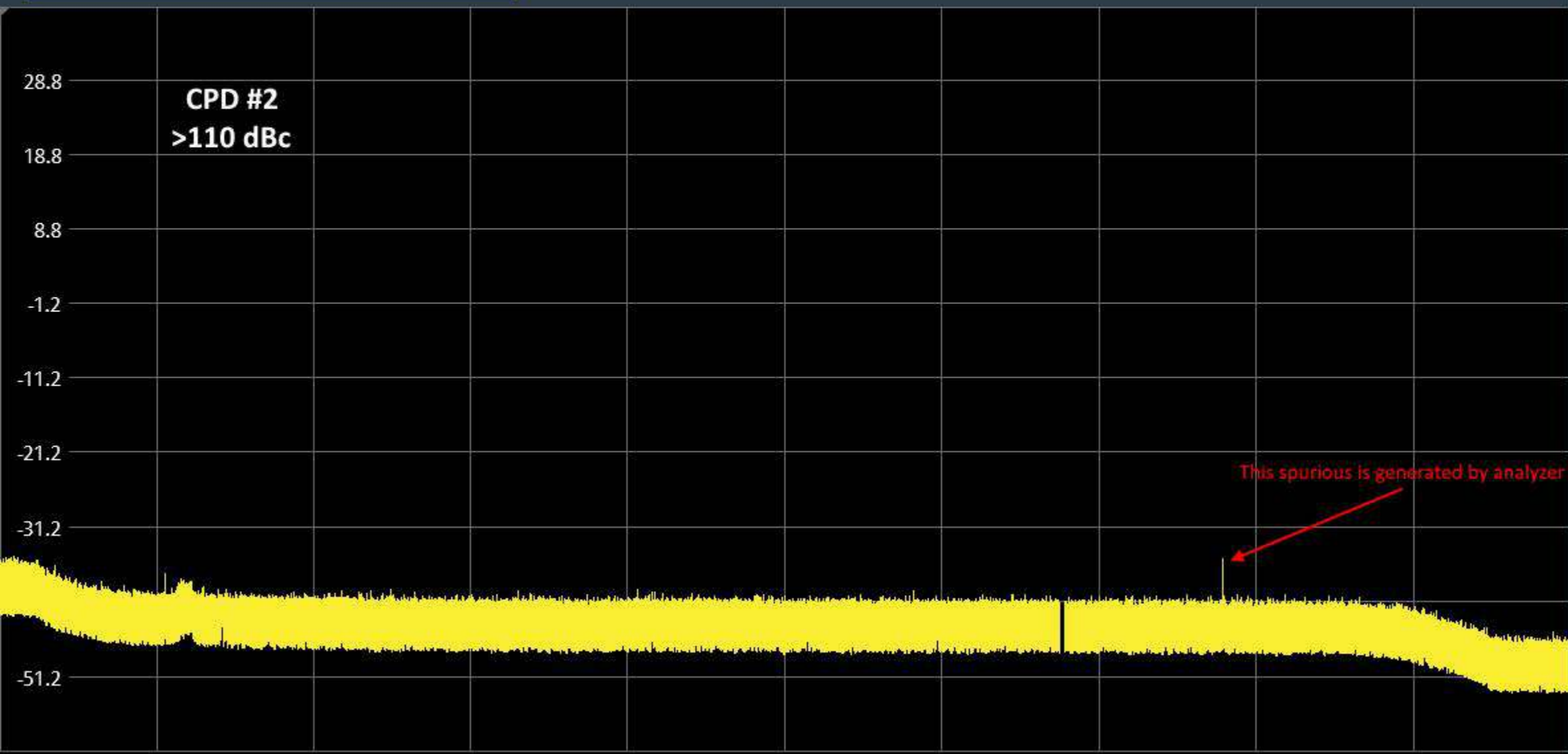
Project No: 19-2006

Remarks:

REF: 38.8 dBmV RBW: 30 kHz VBW: 1 kHz SWT: 7.67 s
ATT: 0 dB Trigger: Free

1 AP Max

M1 456 MHz M2 450 MHz



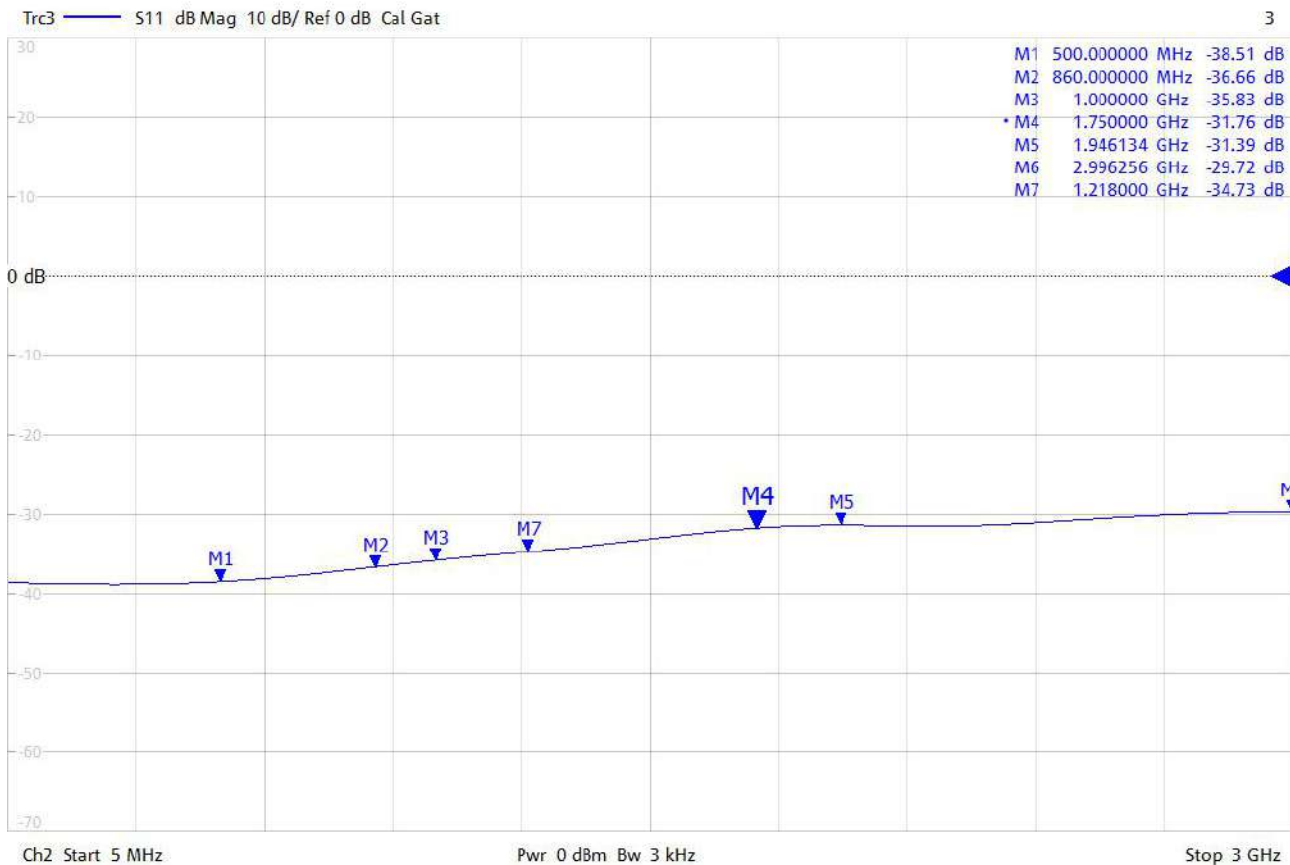
Start 5 MHz

Stop 97 MHz

- Save
- Recall
- Recall Screenshot
- Wizard
- File Manager

3/4/2019 10:19:55 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #3 Gated



Sample No: 3

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss Gated

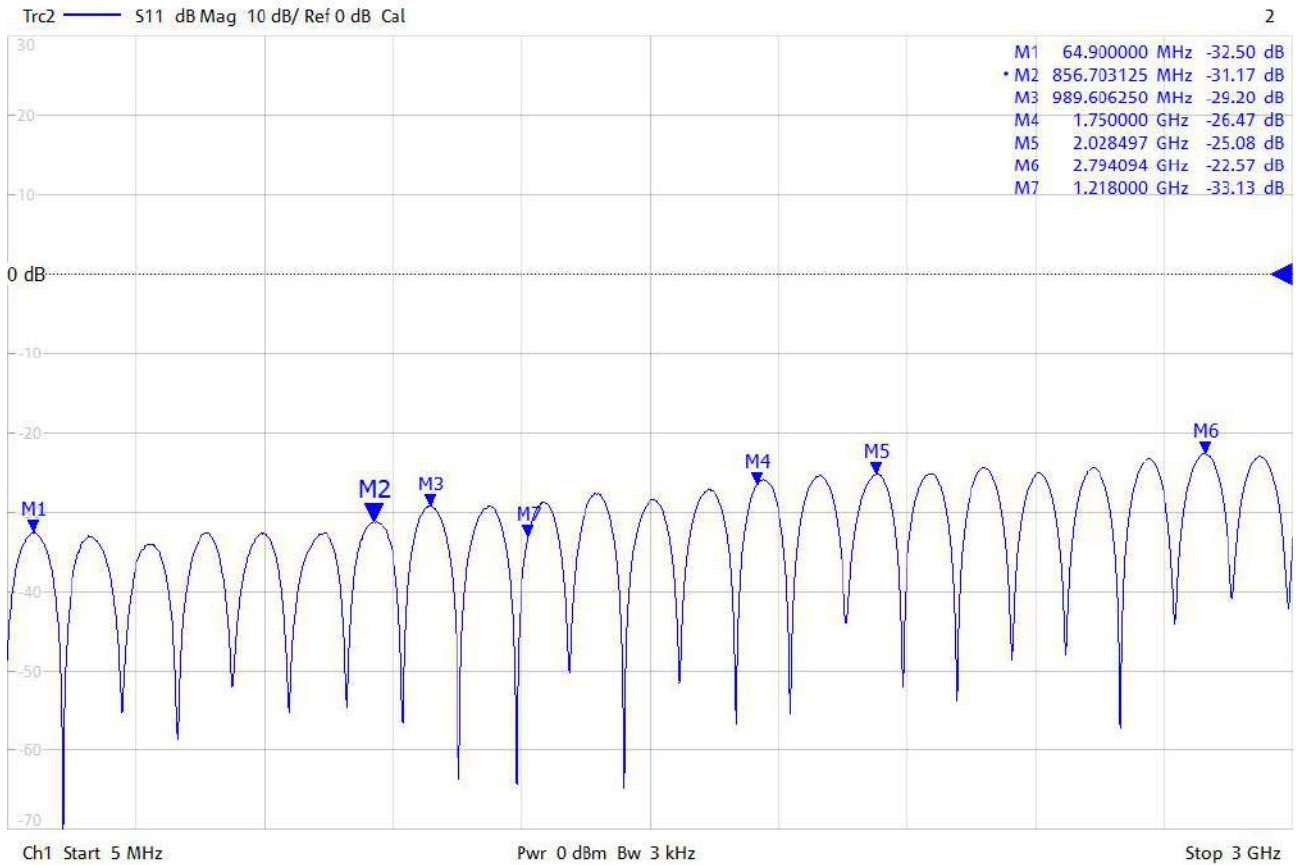
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:19:50 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #3 Assembly



Sample No: 3

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss

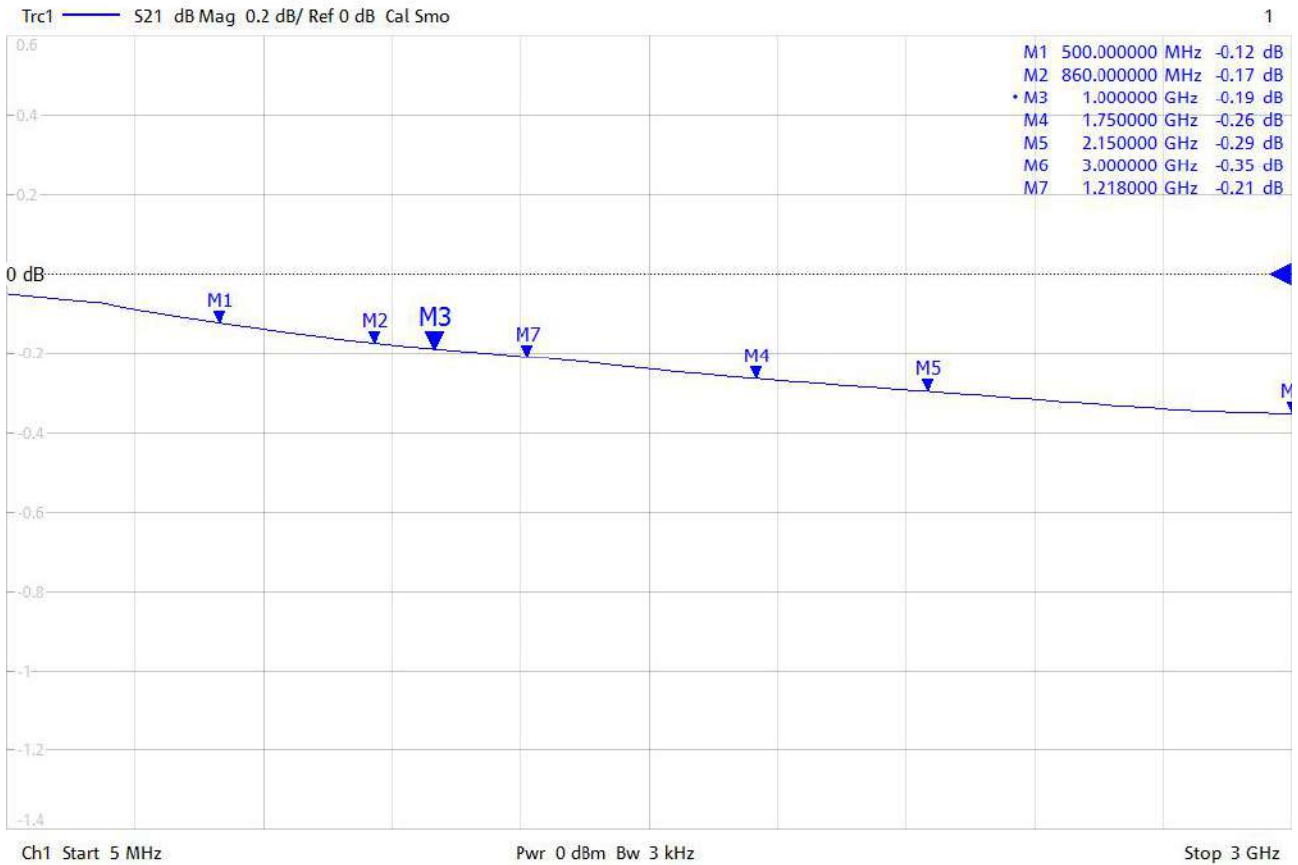
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:19:45 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #3 Assembly



Sample No: 3

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff

Measurement: Insertion Loss

Tested by: J. Bredskov

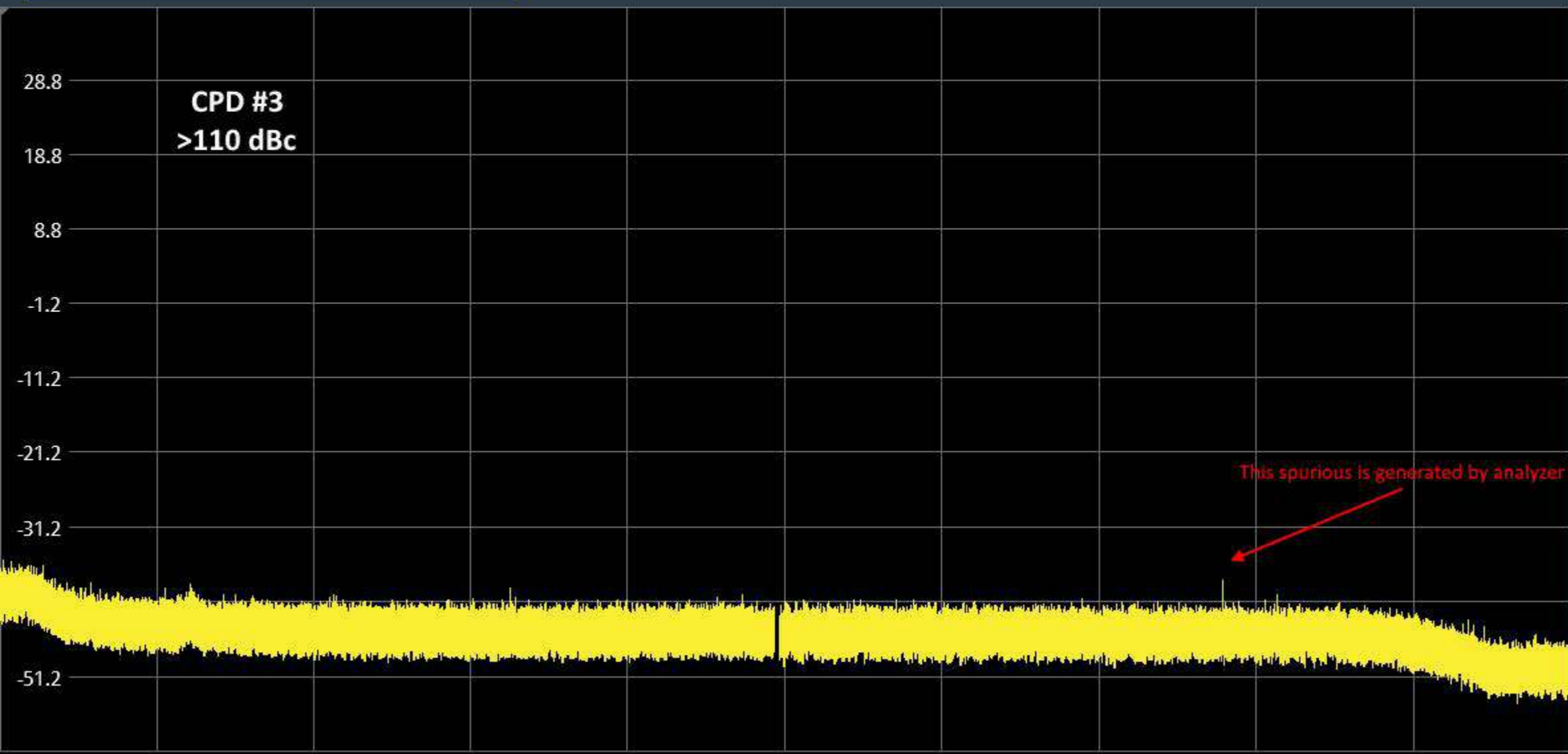
Project No: 19-2006

Remarks:

REF: 38.8 dBmV RBW: 30 kHz VBW: 1 kHz SWT: 7.67 s
ATT: 0 dB Trigger: Free

1 AP Max

M1 456 MHz M2 450 MHz



Start 5 MHz

Stop 97 MHz

Save

Recall

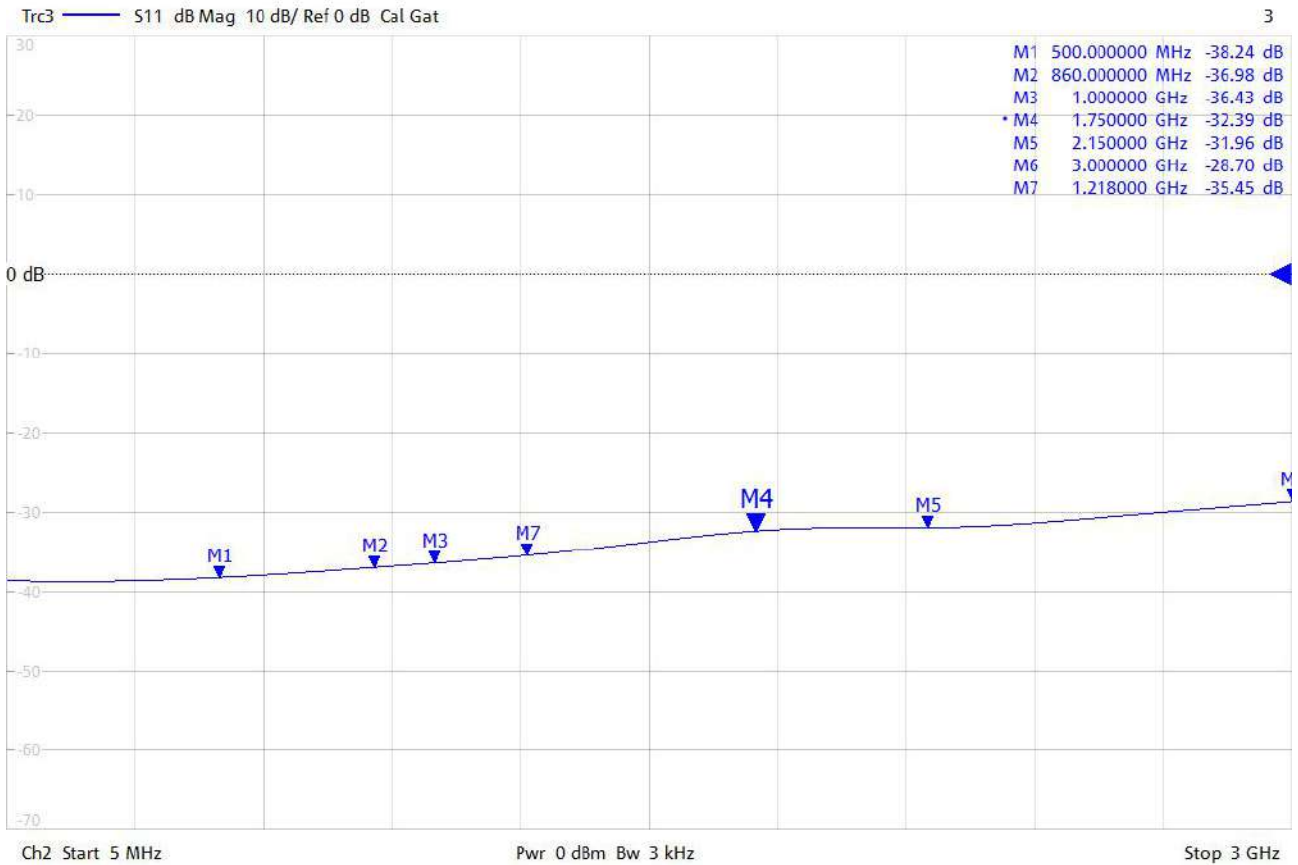
Recall Screenshot

Wizard

File Manager

3/4/2019 10:21:06 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #4 Gated



Sample No: 4

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss Gated

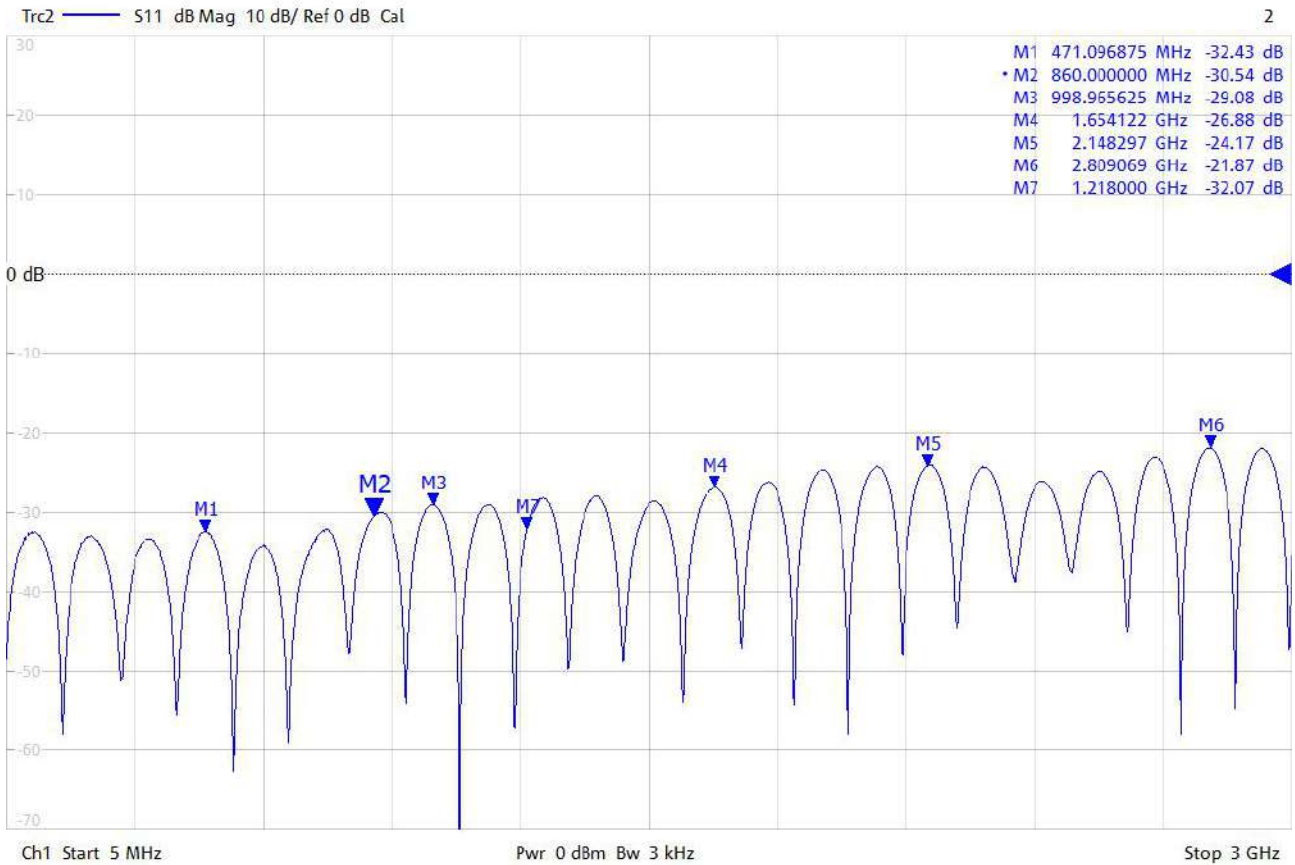
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:21:02 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #4 Assembly



Sample No: 4

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss

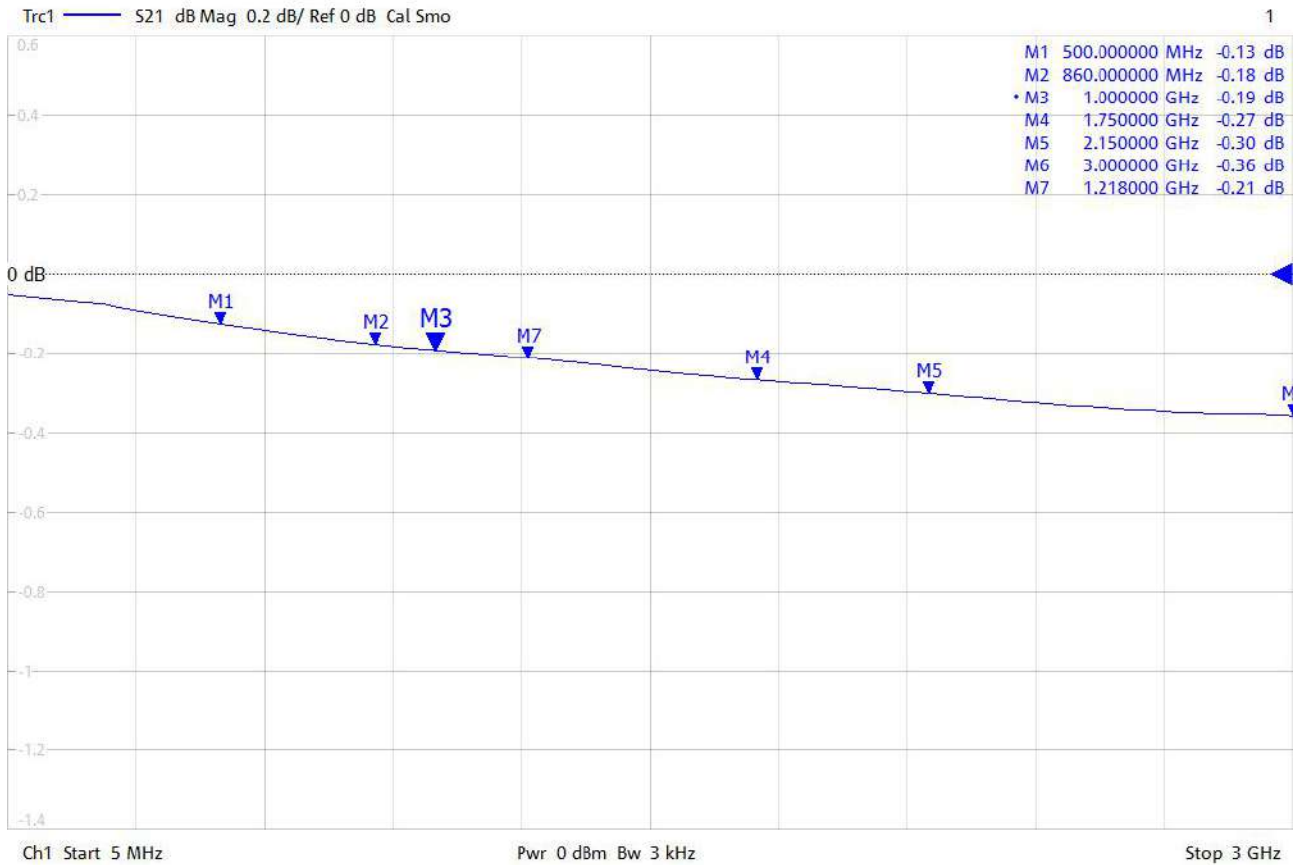
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:20:57 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #4 Assembly



Sample No: 4

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff

Measurement: Insertion Loss

Tested by: J. Bredskov

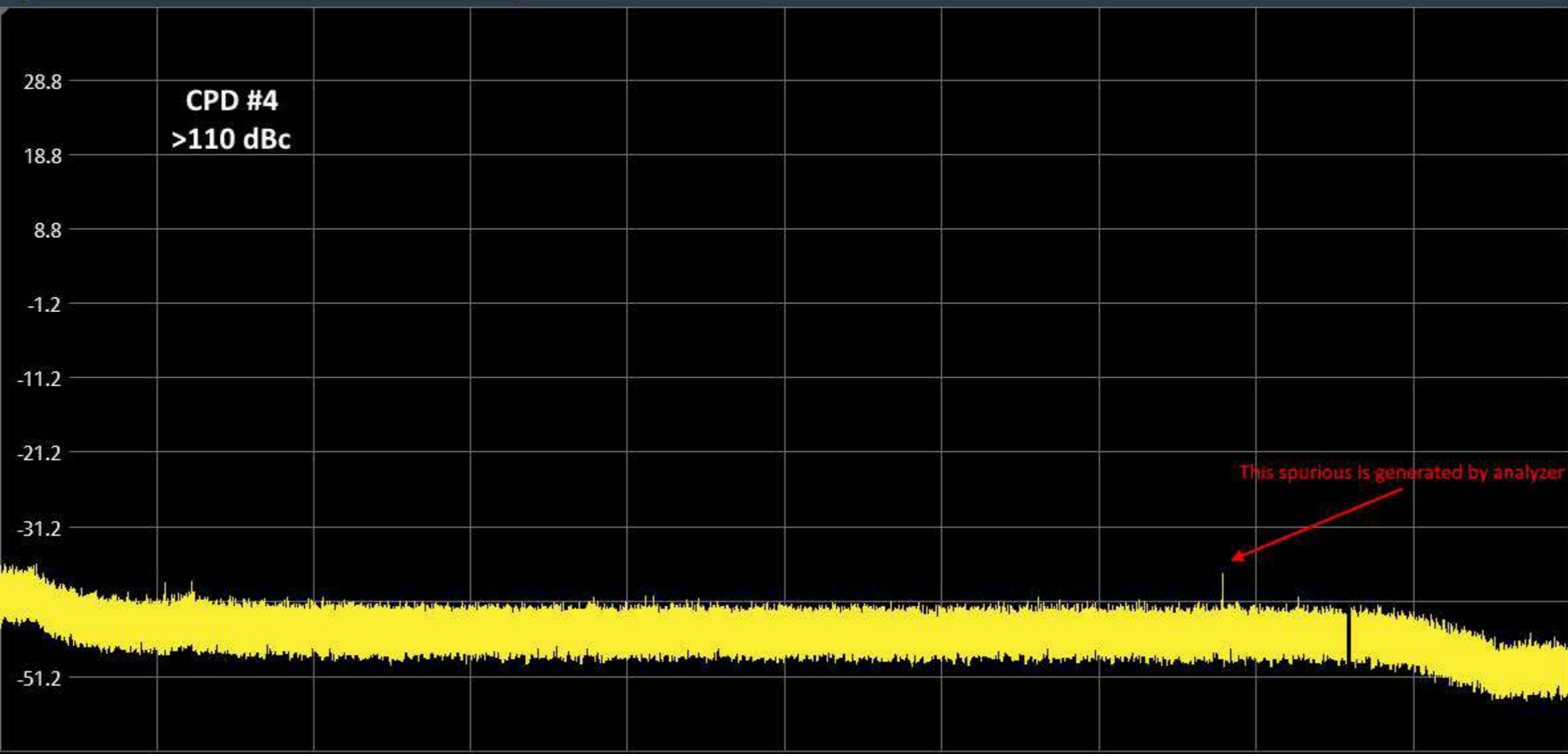
Project No: 19-2006

Remarks:

REF: 38.8 dBmV RBW: 30 kHz VBW: 1 kHz SWT: 7.67 s
 ATT: 0 dB Trigger: Free

1 AP Max

M1 456 MHz M2 450 MHz



CPD #4
>110 dBc

This spurious is generated by analyzer

Start 5 MHz

Stop 97 MHz

Save

Recall

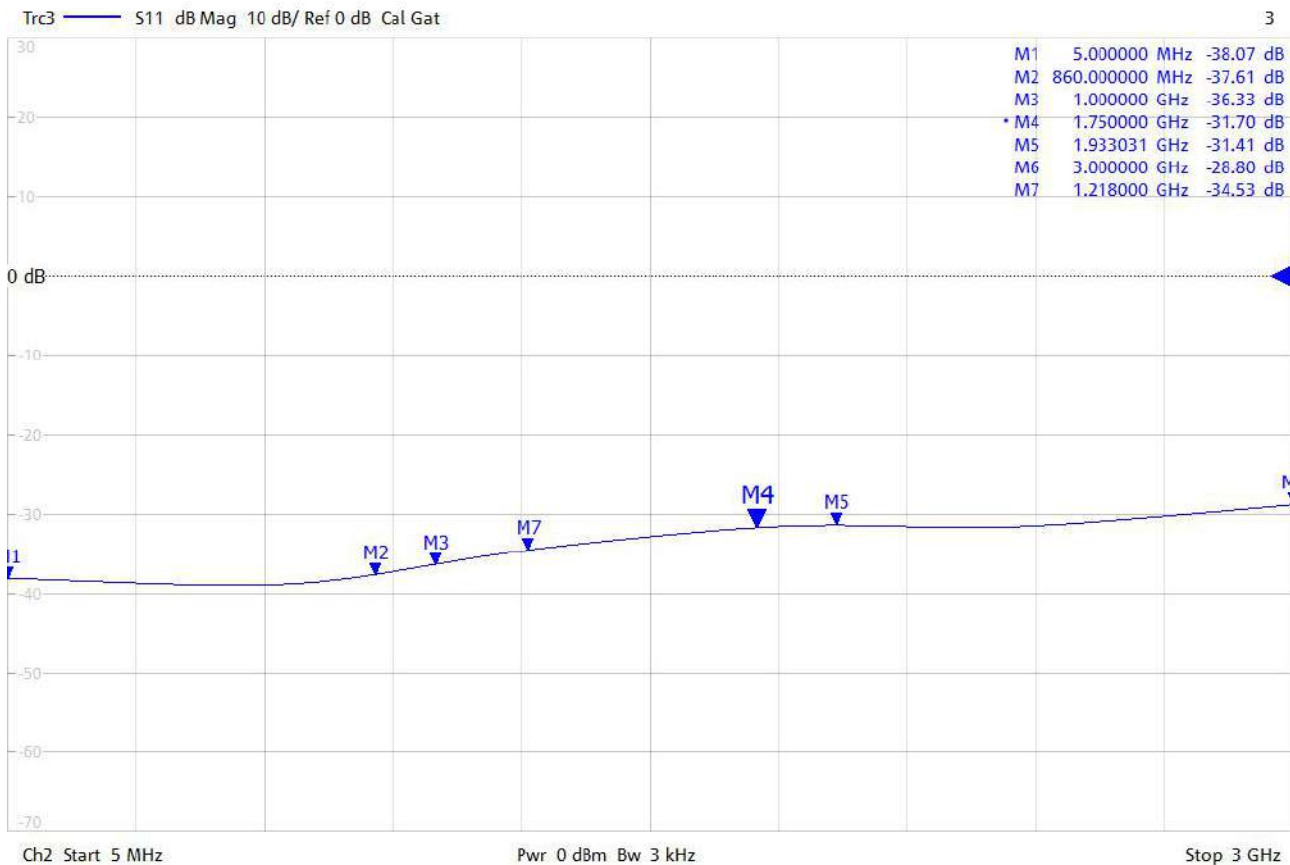
Recall
Screenshot

Wizard

File Manager

3/4/2019 10:22:13 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #5 Gated



Sample No: 5

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss Gated

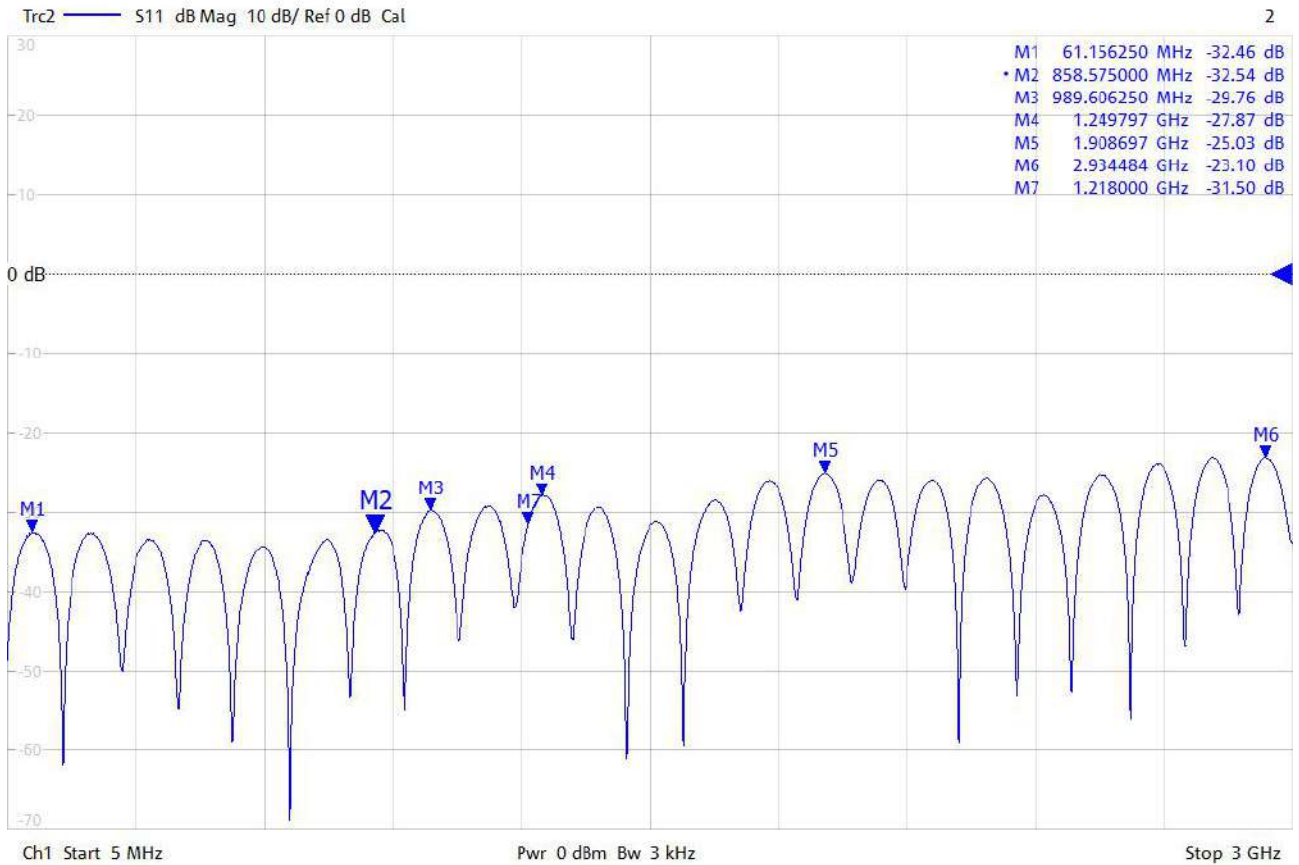
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:22:08 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #5 Assembly



Sample No: 5

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff, termination

Measurement: Return Loss

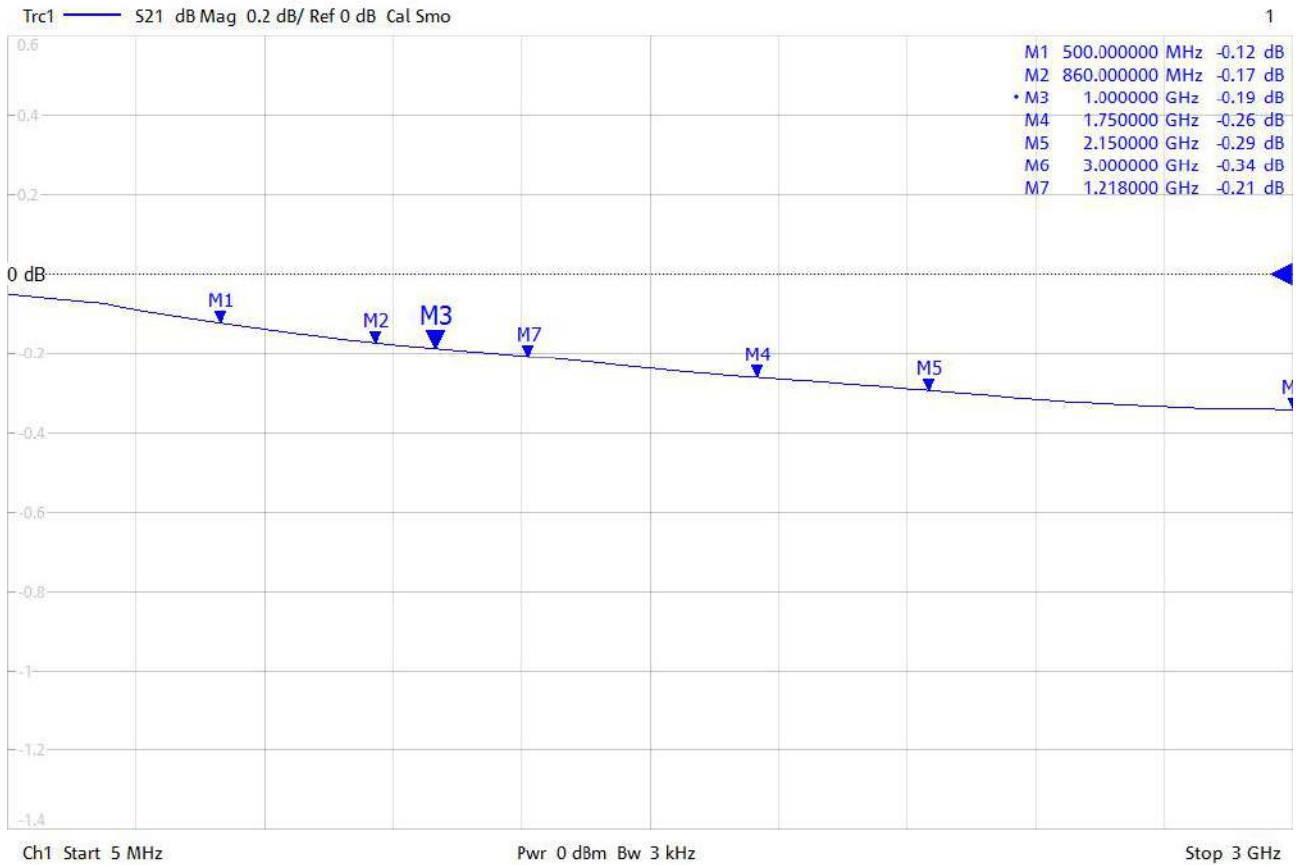
Tested by: J. Bredskov

Project No: 19-2006

Remarks:

3/4/2019 10:22:04 AM
1311.6010K42-102612-NQ

EX6WSNTPLUS #5 Assembly



Sample No: 5

Part No: EX6WSNTPLUS

Description: EX6 - Aqua tight, Signal tight connector.

Adapters: Nm-Ff, DUT, Cable, DUT, NM-Ff

Measurement: Insertion Loss

Tested by: J. Bredskov

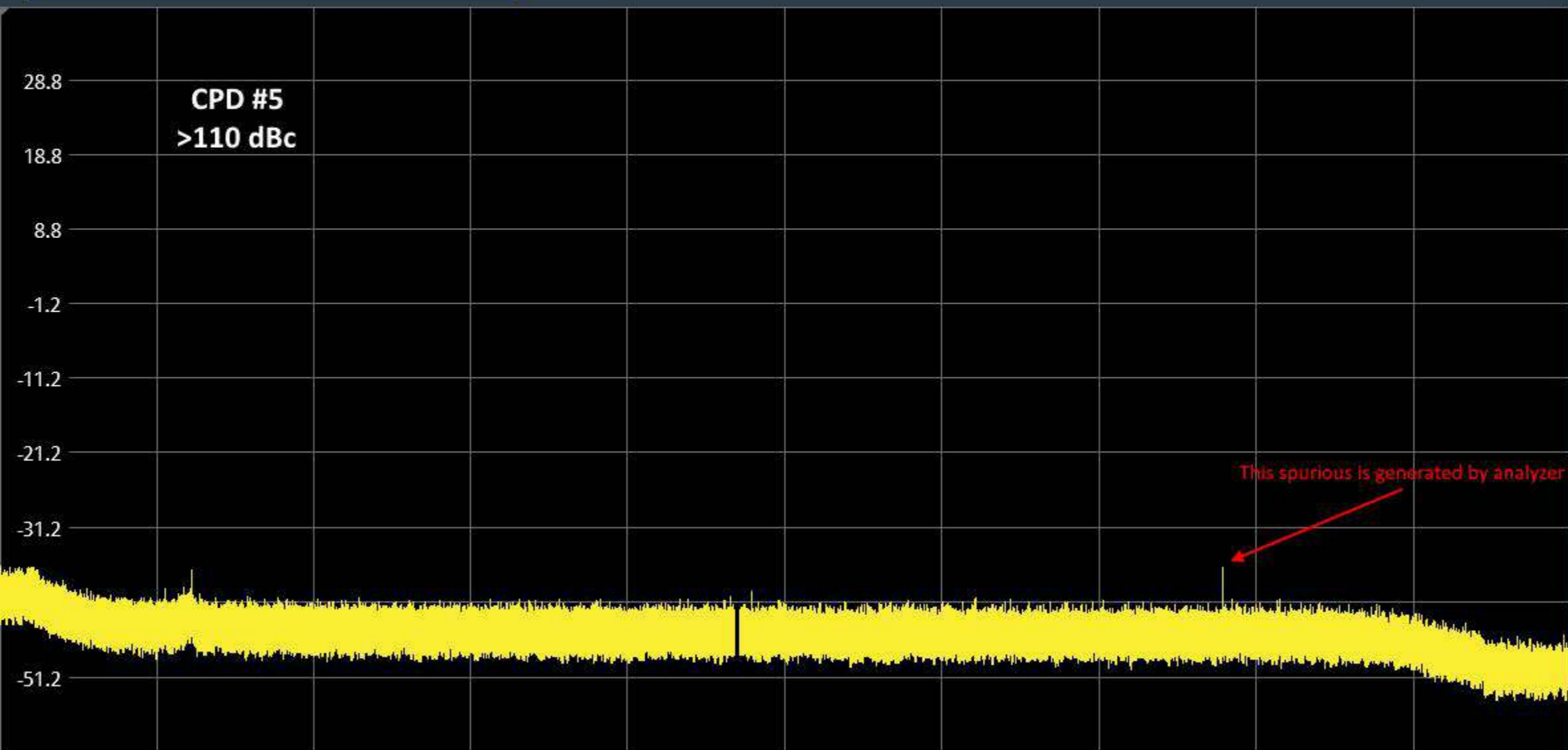
Project No: 19-2006

Remarks:

REF: 38.8 dBmV RBW: 30 kHz VBW: 1 kHz SWT: 7.67 s
ATT: 0 dB Trigger: Free

1 AP Max

M1 456 MHz M2 450 MHz



Start 5 MHz

Stop 97 MHz

Save

Recall

Recall Screenshot

Wizard

File Manager

Tensile Strength

Trækstyrke test

According to standard ANSI/SCTE 99

Date: 04-03-2019

Part No: EX6WSNTPLUS

Færdigvarenr:

Description: AquaTight compression

Beskrivelse:

Cable Type: P6CBS90QVRM

Kabeltype:

Cable Manufacturer: PPC

Kabel fabrikant:

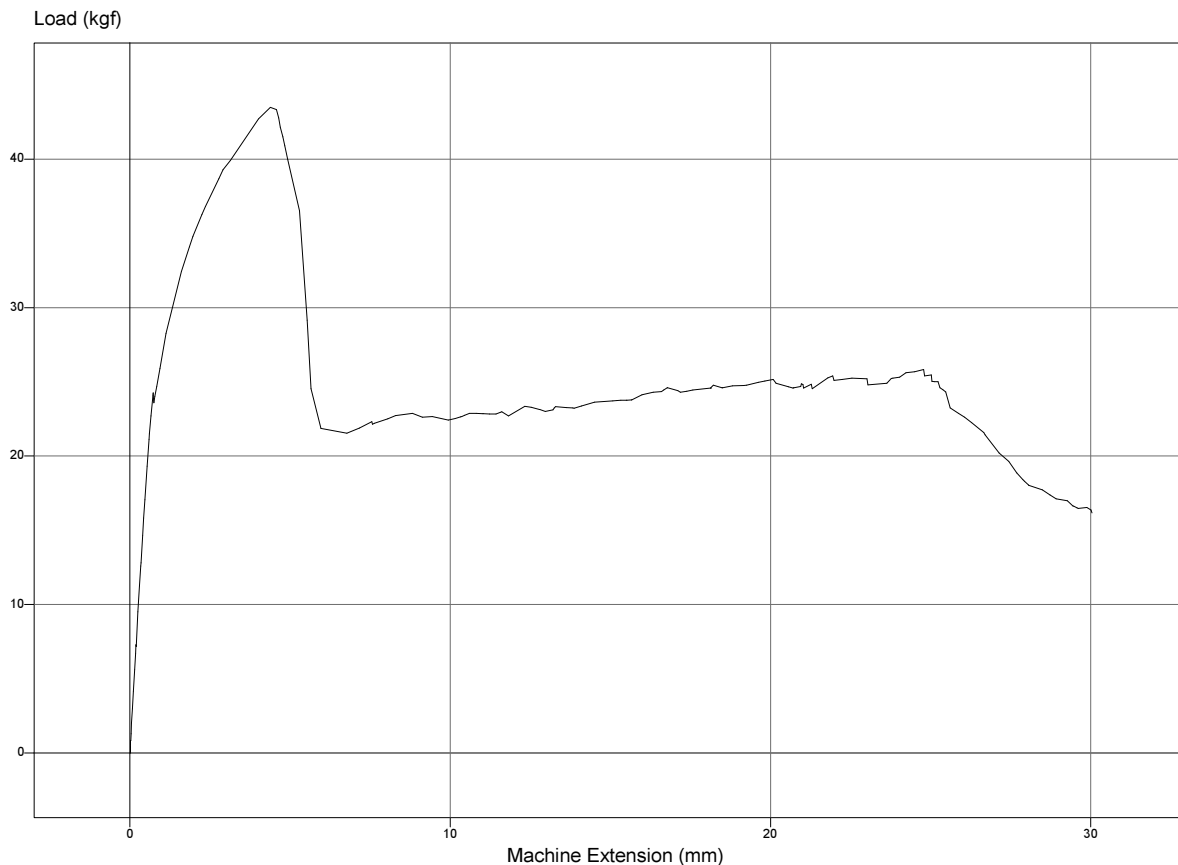
Cable length: 0,1 m

Kabel længde:

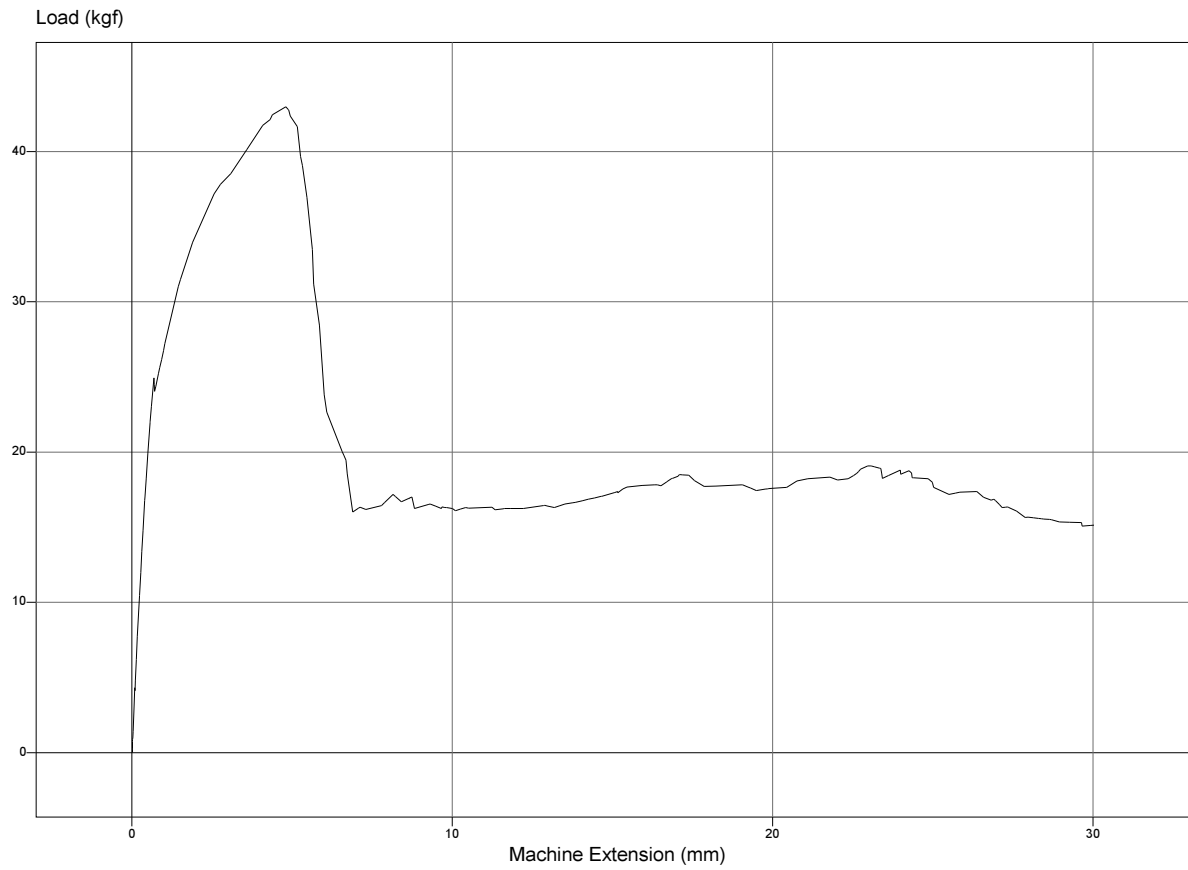
Summary / Resultat:

Date	Operator / Brugger	Pull Off Force	Sample No / Prøve nr
04-03-2019	J. Aabo	43,5 kgf	1
04-03-2019	J. Aabo	43,0 kgf	2
04-03-2019	J. Aabo	40,6 kgf	3
04-03-2019	J. Aabo	45,8 kgf	4
04-03-2019	J. Aabo	44,1 kgf	5

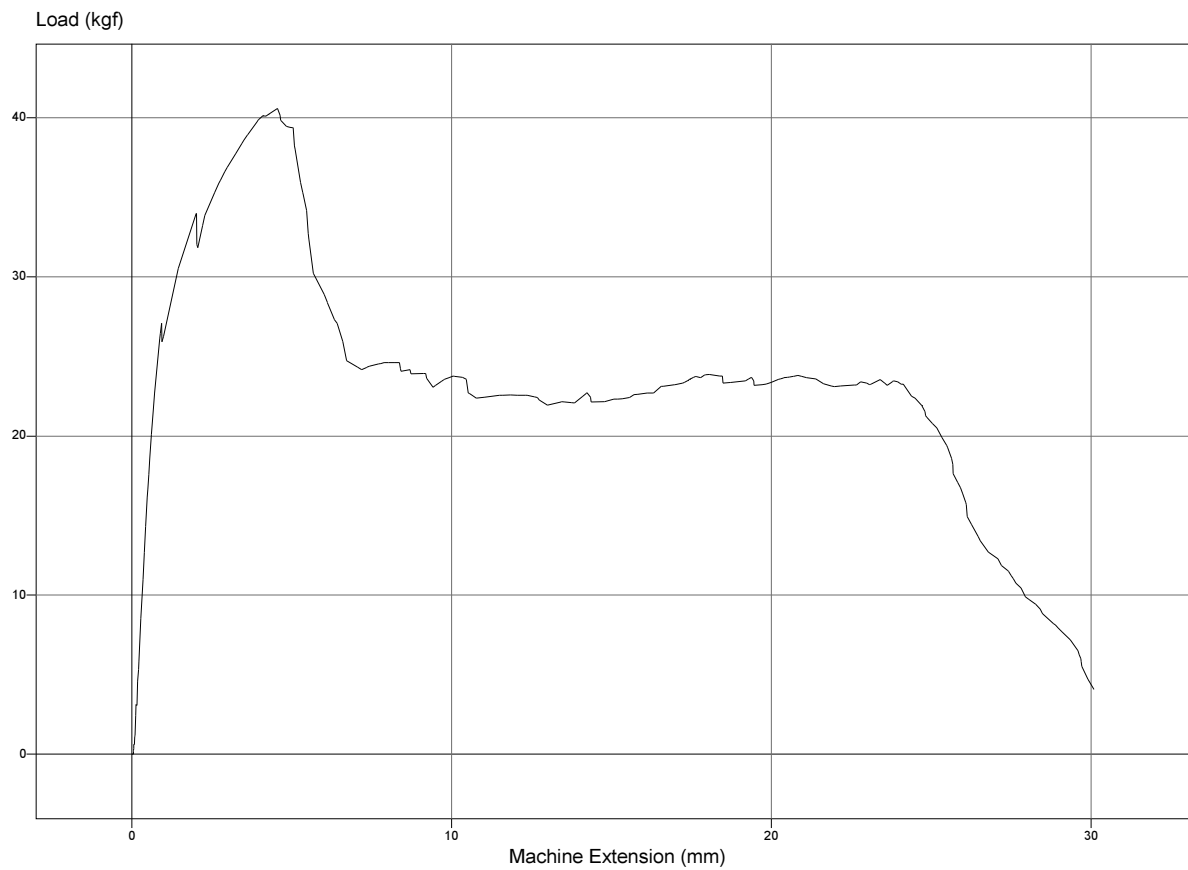
Sample 1



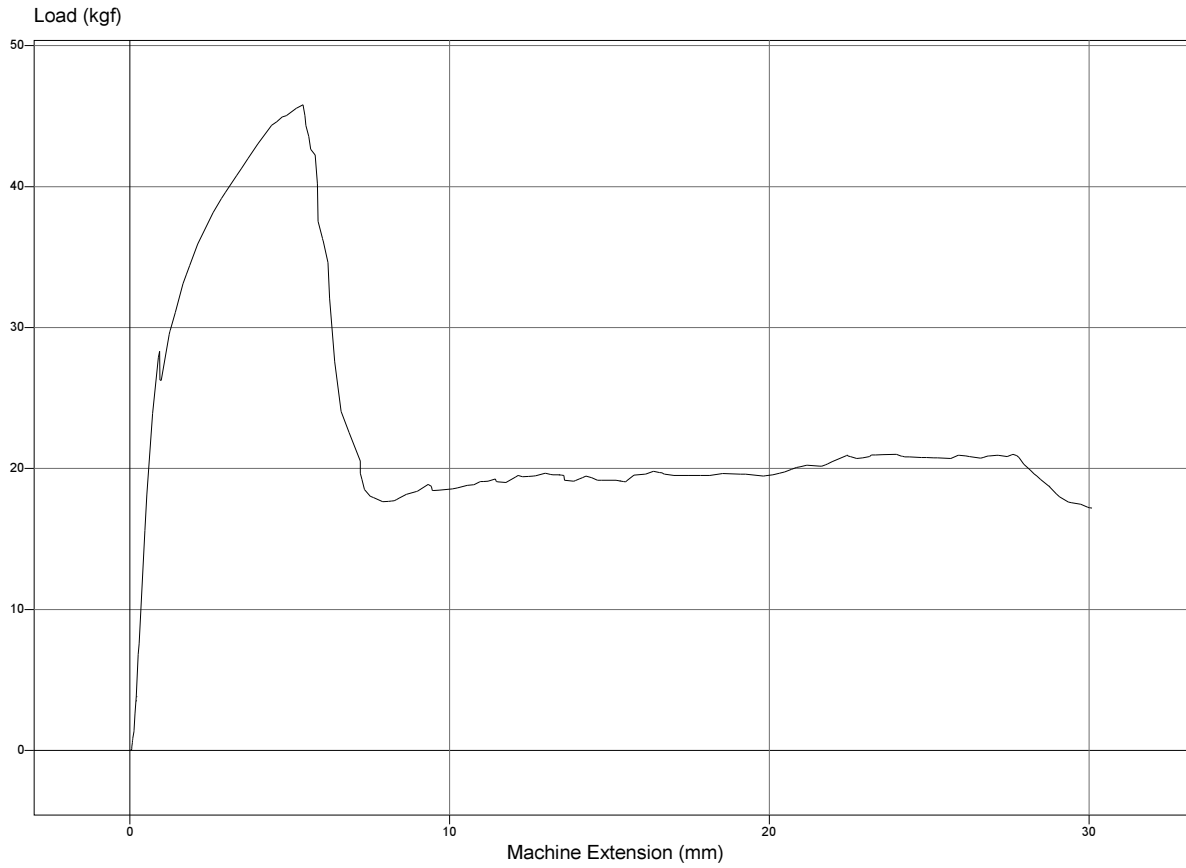
Sample 2



Sample 3



Sample 4



Sample 5

