# Viavi T-BERD 5800 CPRI Testing Guide with ALU BBU Emulation



# Version 4 January 2018

Firmware 26.0.0.6c1973b or Later REQUIRED

## Scope

This document describes Common Public Radio Interface (CPRI) testing procedures. This document is intended to be a method of procedure (MOP) for configuring CPRI test setups, running tests, analyzing results, and creating reports with the Viavi T-BERD 5800v2. This document is not intended to be a user guide. This MOP should be used in conjunction with T-BERD User's Guides for detailed explanation of all testing options.

This document describes three test applications for the CPRI Check test: Verifying provisioning and operation of CPRI Radio Equipment such as a Remote Radio Unit (RRU) unit



# 1. Optical Time Domain Reflectometry (OTDR)

An OTDR sends thousands of very short pulses of light at designated wavelengths into the fiber under test. It detects the amplitude and time delay of both the scattering and the reflection of the light as it returns to the same interface. Through computations, an OTDR builds a picture of the loss characteristics of the fiber throughout its path. It then asserts the location and nature of events such as splices, bends, breaks, connectors and the fiber end. It also provides the aggregate loss of the fiber from start to end.

An Insertion Loss test can tell you if a fiber run is performing acceptably. If it fails your threshold, you do not know where the problem or problems are. An OTDR will tell you each and every contributor to the losses incurred in the fiber system. Thresholds can be set not just for total loss (dB) but for each contributing element.

Follow this procedure to set up a T-BERD 5800 to run the Optical Time Domain Reflectometer (OTDR). The picture below is of a TBERD 5800v2 with a Single Mode OTDR module attached. The post of the OTDR module is covered with a green dust protector indicating that an Angled Physical Contact (APC) connector is used on the port.



USEFUL INFORMATION: It is important to know the fiber distance from the BBU connection to the RRU connection. This is typically the length of the hybrid plus any jumpers. These parts are typically purchased at some standard length. When you run the OTDR test, you want to see the Test Set declare "End of Fiber" at a distance that correlates to the "as built" information for the system under test. A declaration of "End of Fiber" before that length indicates a connection is still open or there is a fiber break.

### 1.1 Test Setup

Step Action	Details		
1. Power On	Press and hold	the ON/OFF button to turn on the T	-BERD 5800v2.
2. Select Test	Select the Fiber	Optics Tab Fiber Optics at the top o	of the screen
VIAVI	Technical Support	tac@viavisolutions.com	1-844-468-4284



# Select FTTA\_RRU\_ConstrLoop.SM-OTDR and Load as FTTA Config

🧕 System	🛄 Tests 😽	Fiber Optics		nc 🧇 🌒 🖥	11:02 AM
🏩 FTTA OTDR		Laser: / Save M FTTA_F	ALL Acq: MAN Time: 20 ode: FPDF Fiber Num:1 Auto Store: YES RRU_ConstrLoop.SM-OTDR.fo_cfg		
Start/		En FTTA	9 Files - 0 Directories	Date	
Stop	Real-time	⊞ <b></b> ETTH	FTTA_RRU_ConstrLoop.SM-OTDR	07/24/17 04:19a	
Testing	File	igenio ⊕_job-manager	FTFA_RRU_Maintenance.SM-OTDR	07/24/17 04:19a	
		⊞ <b>E</b> scope	FTTAEXT_DAS_Indoor.SM-OTDR	07/24/17 04:19a	
~	Setup	⊞ StrataSync	FTTAEXT_DAS_Maint.SM-OTDR	07/24/17 04:19a	Load as
	•		FTTAEXT_DAS_Outdoor.SM-OTDR	07/24/17 04:19a	FTTA Config.
	– Results		STTAEXT_Penthouse_Construction.SM-OTDR	07/24/17 04:19a	
~	$\sim$		STTAEXT_Penthouse_Maintenance.SM-OTDR	07/24/17 04:19a	
			FTTAEXT_Tenant_Construction.SM-OTDR	07/24/17 04:19a	
Enter			FTTAEXT_Tenant_Maintenance.SM-OTDR	07/24/17 04:19a	
		<			Exit
		® SM-OTDR			

- 3. Clean & Inspect (IBYC) Ensure all test jumpers, the hybrid cable and the OTDR port are clean using a Fiber Inspection probe and cleaning supplies. The technician at the tower top should do the same with all connections including the loopback cable.
- 4. Ensure continuity The VFL Continuity test should have been completed earlier and the 10meter loopback fiber left in place at the tower top.
- 5. Connect Connect the 10 meter SC-APC to LC-PC launch cable from the TB5800 OTDR port to the fiber pair under test using a duplex LC coupler. Also connect a 10-meter "receive cable" to the other port on the duplex coupler. This receive or run out cable will give the OTDR visibility to the last connection that will part of the system. Optionally, place a nonreflective terminator at the end of the receive cable. If you do not have such, just make sure that the end of the fiber will be pointed safely away so that there is no chance that the laser light could reach anyone's eyes either directly or by reflecting off a surface.



Yellow)



The schematic on the left shows the path up and down the tower independently, but the up/down paths are really the 2 fibers in a fiber pair with the connectors aligned side by side.

### 6. Run the Test Touch the **Start/Stop** green button

The OTDR will take about 45 seconds to run a test at 1310 nm and another at 1550 nm.

7. Interpretation Much like a sweep test on coaxial cable, the OTDR is looking for reflective events along the path. It also detects Raleigh scattering along the entire fiber which allows it to detect non-reflective events as well. It presents the results in a graph and in a graphical form. Each connector as well as the end of the fiber will be detected. Bends or kinks in the fiber will show up as well. A broken or cut will be declared as "End of Fiber". Any events that exceed the thresholds should be investigated. An "End of Fiber" that is clearly short of the "as built" records for this site is actually a broken fiber that needs to be swapped or replaced. Below is an example of a traditional Trace View. Each event is a peak on the graph. Events that surpass a threshold will have RED values in the table below.





The screen shot below is the same test result, but presented in a graphical form instead of the traditional "trace" view.

System 🎆 Tes	sts 🛛 😽 Fiber Op	tics				r <u>r</u> c 🧇 🐠 [	10:53 AM 01/10/2018
((아)) FTTA OTDR	on-Test-	M_Laser	3ns 1-Rx_1-	Tx	Statio	n_ID->RRU_Id ✓	●Trace
[편집] Sample-Constructio		4146 QUA	D 16cm 20.0s	S	01/1	0/2018 10:46am	●Sm&rtLink
Start/	9.73	24.89	10.21 10.0	5 9.89	25.05 8	30 1.60	Event
Stop	time	-000	- 도금- · · ·	- <b>E</b>		• €;;;; • • • • • • • • • • • • • • • •	View
Testing		Laser L nm 110 (3ns) 50 (3ns)	ink Loss dB 0.592 0.623	Link Table Link Orl dB 42.57 42.74	Fiber Length m 79.80 79.77	Propagation Delay us 0.391 0.391	Results Table Fast Report Cast Report Diagnosis

Values in black are unjudged results

Values in Green have been assessed against a threshold and they Pass

Values in Red (none shown) have been assessed against a threshold and they failed. Investigate any values in red. If it is a connector, re-inspect and clean if necessary and re-run the test.

Note the symmetry in the Trace View. There is 10 meters of launch and receive cable at the 2 ends. The Hybrid cable was 25 Meters long. The jumper from the end of the Hybrid to the RRU was 10 meters. The loopback cable that loops the end of the RRU jumper is also 10 meters. Every successful test should look similar to this one. The main differences might be that the Hybrid and/or RRU jumper is different from the previous.



Technical Support

## 2. Verifying provisioning of an RRU with RF over CPRI Spectrum Analysis

Follow this procedure to set up a T-BERD and test a CPRI link and RRU, and perform RF over CPRI Spectrum Analysis for PIM detection and Diversity Imbalance. The test may be run on dark fiber or through Layer 1 network elements such as transponders and multiplexors. The CPRI Radio Equipment should be installed at the far end on the link before testing.

Note: This is a dual port application. Port 1 is used by default

Step Action	Details
1. Power On	Press the ON/OFF button to turn on the T-BERD.
2. Insert SFP	Insert an SFP or SFP+ that supports the Wavelength, CPRI rate and range of the line under test into the T-BERD 5800v2's Port 1 SFP+ slot.
	Note: All SFPs do not support CPRI. Use a Viavi approved CPRI SFP (see Appendix A) or one approved by your CPRI network equipment manufacturer.
3. Clean & Inspect	Ensure that fiber and connectors are clean using a Fiber Inspection probe.
4. Connect	Connect the SFP or SFP+ to the CPRI port under test using yellow Single Mode Fiber jumper cables (LC-LC). You may need to attenuate the signals if you are using a long range SFP/SFP+.





5. Test Menu



Press the EBU Test button to access the BBU Test

6. Launch Test

Select the CPRI Check ALU BBU Emulation test for the proper rate (usually 4915.2M)



#### 7. Manual Launch If the above tests are not loaded on the 5800 follow the next steps to launch the CPRI Check for ALU BBU Emulation.

From the Test	rmina	menu, ate	, S(	elect CPRI>>RATE>>CPRI
CPRI	6	14.4M	×	
OBSAI	1	228.8M	۲	
OTN	2	457.6M	۲	
Optical BERT	3	8072.0M	۲	
Timing	4	915.2M	•	CPRI Check 🔸 🔃 P1 Terminate
A Load Test	6	5144.0M	•	Layer 2 BERT 🕨 👔 P2 Terminate
	9	830.4M	×	
ave rest As	1	0137.6M	۲	

8. NOTE: The test will launch on **PORT 1 <u>UNLESS</u>** there is already a test running Verify the port in the upper right-hand corner of the screen







## 4. Creating a New RRH Configuration

Ste	p Action	Details		
1.	Select Tests	Press the ••••• button to Start a new Configura	tion	
		Start a New Configuration (reset to defaults)	Go	

Select ALU for the "Far-end Device" (default) and check to test needed for BBU Emulation

	Test Sett	ings				Go To	10
		Not Running					
			Far-end Device	ALU 🗘	]		
		Select Tests					
		Local SFP Verification	1	RRH Identification			
		✓ Interface		RET			
		RTD		VSVVK     VSVVK     VSVVK			
				✓ PIM Detection			
÷	Exit			•	Next 🗪		
				Configure	CPRI Link		
		Next 📄					
Drage	tho	PRI Link	buttor	to advance	to the Link	<b>n</b> 000	
Fless	s the	FML LINK		i to advance	to the Link	page	
Set th	ne tes	t duration a	ind SFP	power if des	sired		
**	CPRI Chec				Port 1: 2457.6M	CPRI Layer 2 BE	RT Tern
	CPRI Link	t Test Settings	_			Go To	
		Not Running					
		CPRI Link Test Duration		12	Seconds 🗢		
		CPRI Link Test Duration		12	Seconds 🗘		
		CPRI Link Test Duration	. Limit (dBm)	0.0	Seconds 🗘		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min	. Limit (dBm) . Limit (dBm)	<b>12</b> 0.0 -18.0	Seconds 🗘		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Ma:	. Limit (dBm) . Limit (dBm) ĸ. Limit (us)	12 0.0 -18.0 250.000	Seconds		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 250.000	Seconds ¢		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 250.000	Seconds +		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 250.000	Seconds +		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Ma:	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 250.000	Seconds +		
		CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 250.000	Seconds +		
		CPRI Link Test Duration  Optical Rx Level Max  Optical Rx Level Min  Round Trip Delay Ma:	. Limit (dBm) . Limit (dBm) «. Limit (us)	12       0.0       -18.0       250.000	Seconds +		
<del>.</del>	Exit	CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) «. Limit (us)	12 0.0 -18.0 (250.000	Seconds +		
÷	Exit	CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) e. Limit (us)	12 0.0 18.0 250.000	Seconds ÷		
ť	<b>Exit</b>	CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Ma:	. Limit (dBm) . Limit (dBm) k. Limit (us)	12 0.0 18.0 250.000	Seconds		
ŧ	Exit	CPRI Link Test Duration  Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) 	12 0.0 18.0 250.000	Seconds		
	Exit	CPRI Link Test Duration  Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max	. Limit (dBm) . Limit (dBm) e. Limit (us)	12 0.0 18.0 250.000	Next		
Press	Exit	CPRI Link Test Duration CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max Next PRI User Plane	. Limit (dBm) . Limit (dBm) e. Limit (us)	12 0.0 18.0 250.000 Test Setures atton to adva	Next CRI User Plane	RRH p	age
Press	Exit	CPRI Link Test Duration CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max Next CPRI User Plane	. Limit (dBm) . Limit (dBm) e. Limit (us)	12 0.0 18.0 250.000 Test Second	Seconds •	RRH p	age
Press	Exit	CPRI Link Test Duration CPRI Link Test Duration Optical Rx Level Max Optical Rx Level Min Round Trip Delay Max Next PRI User Plane	. Limit (dBm) . Limit (dBm) e. Limit (us)	12 0.0 18.0 250.000 Test Second	Seconds •	RRH p	age
Press	Exit	CPRI Link Test Duration  CPRI Link Test Duration  Optical Rx Level Max  Optical Rx Level Min  Round Trip Delay Max  Next  PRI User Plane	. Limit (dBm) . Limit (dBm) Limit (us)	12 0.0 18.0 250.000 Test Seturge utton to adva	Seconds •	RRH pa	age

2. Link values

3. RRH Settings



4.	Antenna Test	Select the Transmit Antenna to test Transmit on Tx1 +
5.	Waveform	Set the Waveform to LTE-FDD TM3.1 (NOTE TM3.1 is required for FULL OCNS channels to test VSWR and PIM) Waveform LTE-FDD TM3.1
6.	Return	Press the Save Profiles button to proceed to the Save Profile screen
7.	Save Profile	To save the configuration in the Save Profiles screen, enter a Filename, and tap $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
8.	Continue	After saving the profile Press the press the <b>Next</b> arrow to advance to the test screen

# **GOTO Section 2 BBU Emulation**

# Loading a saved Configuration

1. Run Wizard		Load a save configuration by pressing the button under the "Lo Configuration from a Profile" area	ad
		Load Configuration from a Profile	
		NOTE: If a configuration for the RRH does NOT exist, proceed Section 4 Creating a New RRH Configuration Select the configuration and press the $Profiles$ button Press the $Pros the$ button to accept the configuration Press the $Press$ the $Press$ button to advance to the next screen	n

GOTO Section 2 BBU Emulation (Next page)



## 2. BBU Emulation

### **Running the Test**

Step Action	Details	
1. Launch	Press the <b>Go b</b> utton to start the test	
	Run Tests	Go 🗪

2. SFP Verification In the Local SFP Verification screen, verify that the SFP meets the requirements of the line under test.

If the SFP was purchased from or approved by Viavi, and supports the selected CPRI line rate, the following screen will be displayed:

System	EERT Tests	₩ Fiber Optics			Port	<b>RC 🔷 🛜 </b>	0) 😵 惧 6: 11 1 Layer 2 BERT	14 PM 11 5/2016 Term
	Local SFP Ver	ification Not Running					Go To	i
	The second second	SFP Waveleng SFP Vendor SFP Vendor R SFP Vendor P Recommender	th (nm) 1 kev 3 /N 5 d Rates Ethernet Fibre Cha CPR1 OBSAI Show Additional	310.00 DSU 5H-42L4DD1 1G nnel 1G, 2G, 4G 614.4M, 122 2457.6M, 30 768M, 1536I ISFP.Data	8.8M, 72.0M M, 3072M			
		🗸 SF	P is good.					
- Đ	xit		End:	Configure Manually	Next Run Tests			

Tap	Next		to	proceed	to	step	5.
-----	------	--	----	---------	----	------	----

If the SFP was sourced from your CPRI Network Equipment Manufactured and has not been tested and approved by Viavi, the following screen will be displayed:

System 🔛 Tests	Fiber Optics		💽 🛷 奈 📣 🖺 6:01 PM
CPRI Check Local SFP V	erification	Por	t 1: 2457.6M CPRI Layer 2 BERT Term Go To
	Not Running		
	SFP Wavelength (nm) SFP Vendor SFP Vendor Rev SFP Vendor P/N Recommended Rates	1310.00 Viavi 1 JMEP-01LX10A10 INFO: Not a validated module new Additional SPP.Data	
	🔔 Unable	to verify SFP for this	rate.
		*	
- Exit		End: Configure Manually Run Tests	-

Check that the SFP Wavelength, SFP Vendor, and SFP Part Number are approved for this CPRI line rate. Tap Next to proceed.



#### 3. Run Tests



The T-BERD will run all configured tests.



The first 5 tests (SFP Check, Interface, Start-up Sequence, RTD) will run simultaneously for the time specified in the setup screen (usually 30 seconds). Once completed, the RRH Identification test will run.

# 4.View Details Press the vertice button for RRH Identification to view the details about the connected RRH

<b>I</b>	Time remaining: 1m	:08s		
RH Identification:	$\checkmark$			
RRH Connection:	Pass	RRH	\$ Status	
		Manufacturer		ALLU
		Model		RRH2x40-07L-A
		Serial Number		15W362G4011
		Software Version		868413
		OEM Version		
		IF Version		40
		Number of Tx Antennas		
		Number of Rx Antennas		
		VSWR Floor (dBm)		2
		Max Tx Power (dBm)		46.
		Min Tx Frequency (MHz)		729.0
		Max Tx Frequency (MHz)		745.2
		Min Rx Frequency (MHz)		699.0
		Max Rx Frequency (MHz)		715.2
		<u> </u>		

5. Return

Press the **set** button to return to the test screen

6. RF Tests

RET, VSWR, Diversity Imbalance, and PIM testing require specific information for the RRU under test.

Continue
]
]
]



7. RET

Press the button	to enter the RET Te	est rt 1: 2457 604 GPB1 Layer 2 BDRT Term
	RET:	Alarm Summary
ALD Scan Results Selected ALD CSE0634118 ALSG Type: RET Model Name: 86010147 Manufacturer: KA	Desired lift (deg) Set 1.0 Set Tilt Antenna Results Serial Number: Middl humer:	Temporary Actuator Jam Not Calibrated No Setup Table
Antennas Antenna #1 Tilt: 0	Moder Name: Base Station: Sector: Current Tilt(deg): 0 Maximum Tilt(deg): 2 Tilt Test: Pass Calibrate Clear Antenna Clear	
	Back	

- 8. RET Info Select the ALD (RET Controller) from the list and check the Alarm state
- 9. Return
- 10. Continue
- 11. VSWR

Pres the **Continue** button to continue to the next test.

Press the **Back** button to return to the test screen

CPRI Check VSWR (Voltage Standin	ig Wave Ratio)		Port 1: 2457.6M CPRI Layer 2 BERT Te
63%	Time remaining: 1m:08s		
	VSWR:		Start VSWR Test
Configuration <u>CPRI User Plane</u>	VSWR Threshold 2.00		
<u>RRH Configuration</u>	Carrier Enabled: VSWR Floor (dBm): Antenna Tx1 VSWR: Antenna Tx1 Power (dBm): Antenna Tx1 Incident Power (dBm): Antenna Tx1 Reflected Power (dBm): Antenna Tx1 Reflected Power (dBm):	None 0 0 0 0 0	

12. RRH Configuration The VSWR test requires the RRH to be configured with specific data to transmit at full power. **The data entered will be the same for Band 13** (700MHz) but will vary for AWS and PCS RRHs. The data below is for Band 13(700MHz) RRHs

### 13. Configure

**Select** the **RRH Configuration** link and enter the following information:

Bandwidth	Bandwidth of LTE signal	10 MHz
Tx Frequency	Downlink Frequency	751MHz
<b>Rx Frequency</b>	Uplink Frequency	782MHz



	CPRI Check RRH Configuration		Port 1: 2457.6	M CPRI Layer 2 BERT Term
		Time remaining: 41s		
	RRH Configuration Carrier State     ENABLE       Carrier Type     LTE_10       Tx Frequency (MHz)     739       Max. Tx Power (dBm)     46       Rx Frequency (MHz)     709       Axc Groups Tx1: Port 1, 1 Tx2: NONE     Rx1: Port 1, 1 Rx2: Port 1, 2	Configure RRH Bandwidth 10 MHz ¢ Tx Frequency (MHz) 739.000 Max. Tx Power (dBm) 46.0 Tx Antenna: Tx1	Rx Frequency (MHz) 709.000 # of Rx Antennas to Test 2 Rx1 ÷ Rv2 ÷	Configure Carrier
		<b>George Back</b>		
14. Enable	Press the Configure Carrier but State will sh-verse free a. NOTE – If the freeuercies with will be DISA freeuercies with will be DISA but carrier State ENABLE Carrier Type ItE Carrier Type ItE	utton to Set the R BLE Carrier State data was entere ill how "0" and a BLED	RH. Once c te I d incorrectly tre invalid an	ompleted the Carrier ENABLE the Tx and Rx d the Carrier State
15. Return	Press the <b>Back</b> but	ton to return to t	he VSWR sc	reen
16. Run VSWR	Start VSWR Test Carrier Enabled: VSWR Floor (dBm): Antenna Tx1 VSWR: Antenna Tx1 Power (dBm Antenna Tx1 Incident Por Antenna Tx1 Reflected Po Antenna Tx1 Reflected Po	button to run t ): wer (dBm): ower (dBm): (dB):	he VSWR te Pass 20 1.065 37.8 37.9 7.9 30	st
17. Return	Press the <b>Back</b> but	ton to return to t	he test screer	1
18. Continue	Press the <b>Continue</b> by	utton to continue	to the next to	est.



### 19. Diversity

Press the CPRI Check Diversity Imbalance	button to enter the	e Dive	rsity Imbalance Port 1 2457 6M CPRI Layer 2 BUT	e Tes
Fighting States of States	Diversity Imbalance:		Stop Diversity Imbalance Test	
Configuration CPRI User Plane RRH Configuration	Threshold (dB) Floor (dBm) 3.0 -100.0 Carrier Enabled: Antenna Rx1 Relative Power (dB): Antenna Rx2 Relative Power (dB):	Pass 0.00 -0.49	10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	······
	🗲 Back		Spectrum	

The Diversity Imbalabnce test requires the RRH to be configured with specific data to transmit at full power. Please refer to step 13 if the VSWR test was not run

20. Diversity	Press the Imbalance Test but	ton to RUN the Diversity Test
	Carrier Enabled:	Pass
	Antenna Rx1 Relative Power	(dB): 0.00
	Antenna Rx2 Relative Power	(dB): -0.46



22. Return	Press the <b>Back</b> button to return to the Diversity Imbalance test screen
23. Continue	Press the <b>Continue</b> button to continue to the next test.
24. PIM	Press the <b>III</b> button to enter the PIM Test
	The PIM test requires the RRH to be configured with specific data to transmit at full power. Please refer to step 13 if the VSWR test was not run



25. PIM	Press the <b>Start PIM Test</b> button to RU	N the PIM Test
	Level Diff. (dB):	-0.58
	Average Level (dBm):	-122.99
	Carrier Enabled:	Pass
	Signal Detection:	None



# 3. Creating a Report

Step 1	Action	Details
1. Rep	ort	Press the <b>Go</b> button to Create a report
		Create Report Go
2. Info	rmation	Enter the Job information Test Report Information Customer Name: ACME
		Technician ID:     55231       Test Location:     Spokane       Work Order:     123       Comments/Notes:
		Radio: 700MHZ RRH
		Band: Band 14
31. Forr	nat	Press the button to proceed to the next screen
2. Save	e	Name the File and press the report button to Create a report
2. Save	e	Name the File and press the Format PDF O CSV O Text O HTML O XML
32. Save	e	Name the File and press the button to Create a report button to Create a report
2. Save	9	Format       button to Create a report         PDF       CSV       Text       HTML       XML         File Name       CPRI_Check-2017-11-04T10.35.05       Select       Select         Screenshot       View report after creation       Select         Screenshot       Include screenshots       View report after creation         CPRI Check Overall Test Result: Fail
2. Save	2	Screenshot     Screenshot     View report after creation     Screenshot     View report after creation     View report after creation     Screenshot
2. Save	e	Name the File and press the button to Create a report promat PDF CSV Text HTML XML File Name (PRI_Check-2017-11-04T10.35.05 Screenshot Files CPRI Check Overall Test Result: Fail SFP Check Interface
2. Save	2	Screenshot
2. Save	e	Name the File and press the button to Create a report promat PDF CSV Text HTML MML File Name (PRI_Check-2017-11-04T10.35.05 Sereenshot Files CPRI Check Overall Test Result: Fail SFP Check Interface Start-up Sequence RTD
2. Save	2	Screenshot
2. Save	e	Screenshot     View report after creation     View report after cre
2. Save	2	Streenshot       Include screenshots         Streenshot       StP Check         Streenshot       Streenshot         Streenshot       Streenshot
2. Save	e	Name the File and press the Format PDF CSV Text HTML MAL File Name (PRI_check-2017-11-04T10.35.05 Select) CPRI C heck O verall T est R esult: Fail CPRI C heck O verall T est R esult: Fail SFP Check Interface Start-up Sequence RTD RHH Identification RTD RHH Identification RTD CSVR C

### 33. Repeat

Press the button to proceed to the Test section. All test can be repeated on other RRHs without the need for Setup.

# **END OF TESTING**

