

• 2011-11-01 15:02:29 CAL ON

VIAVI

24C

Cable and Antenna Analyzer

Reflection - VSWR

Cable and Antenna Analyzer

NO PERMIT

JD724C

Marker

Peak

0

Fnter

100% 💷

M2: 756.86 MHz / 1.84

JD723C

100

and see has



4

Brochure

The CellAdvisor™ Portfolio

Approved by major mobile operators

The VIAVI Solutions[™] CellAdvisor portfolio is optimal for installing and maintaining cell sites. It contains all the features and capabilities required to perform field testing at sites using all wireless technologies from 2G to 4G.

CellAdvisor offers a simple, easy-to-use interface with a rich set of analytical capabilities to ensure cell site installation, maintenance, and optimization are done correctly and efficiently, the first time, every time. From validating coax fronthaul, fiber inspection, and spectrum clearance to analyzing interference in fiber links, CellAdvisor does it all.



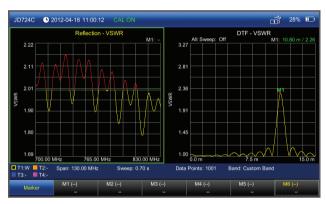
Cell Site Installation — JD720C Series

Proper cell site construction and installation is critical to avoid network commissioning issues, and it must be done in a timely manner to satisfy aggressive deployment plans.

CellAdvisor JD720C Series cable and antenna analyzers conduct installations faster, simpler, and smarter, thanks to its comprehensive testing capabilities, complete measurement functions.

Key Features

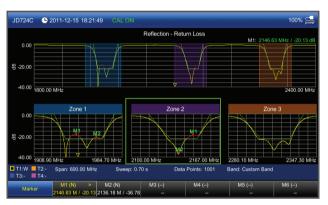
- Coaxial reflection tests
- RF-device insertion gain/loss
- Fiber inspection
- Bluetooth And WiFi connectivity
- Web-based remote control
- Includes optical power meter



Return loss and distance to fault



Optical power meter



Reflection test with zoom zones



Fiber inspection

Cell Site Installation	JD723C	JD724C	JD725C	JD726C
Frequency range	100 MHz to 2.7 GHz	5 MHz to 4 GHz	5 MHz to 4 GHz	5 MHz to 6 GHz
Coaxial reflections RL, VSWR, DTF, CL				
Fiber inspection with P5000i				
RF power meter with power sensors	•			
Optical power meter with optical sensors				
Insertion gain (amplifiers)	Not available	Not available		•
Insertion loss or isolation	Not available	Not available		-
RF signal generator (CW)	Not available	Not available	–30 dBm to +10 dBm	–30 dBm to +10 dBm
Ethernet, Bluetooth, WiFi connectivity				
StrataSync cloud service	Not available	Not available	Not available	Not available
Web-based remote control				

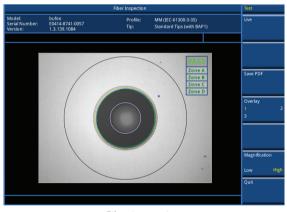
Interference Analysis — JD748B/JD788B

Interference analysis is a fundamental testing procedure to monitor the spectrum's environment. An effective spectrum analysis ensures wireless service coverage and identifies any interfering signals that may degrade the intended service.

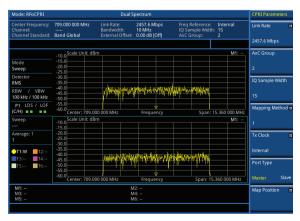
Modern cell sites have a distributed architecture where the baseband unit connects via fiber to the radio element in the top of the tower, not providing RF monitoring. RFoFiber[™] provides RF visibility on fiber links with CPRI or OBSAI protocols for interference analysis purposes.



Spectrum analysis with timed traces



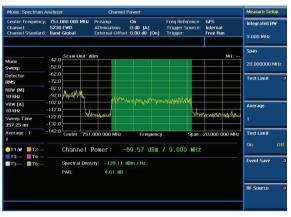
Fiber inspection



Spectrum analysis with timed traces

Key Features

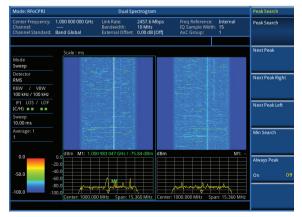
- Spectrum analysis
- Interference analysis
- Fiber inspection
- RFoFiber technology
- Bluetooth and WiFi connectivity
- Web-based remote control
- Includes optical power meter



RF conformance tests



RFoFiber layer 2 measurements



RF conformance tests



Fiber inspection



RFoFiber layer 2 measurements

141

Calabase Tiped Andrew Division

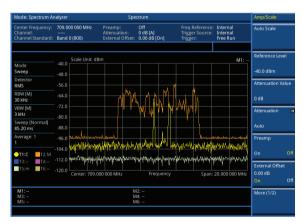
Interference Analysis	JD748B	JD788B
Frequency range	100 KHz to 4 GHz	9 KHz to 8 GHz
Spectrum analysis		
Channel scanner		
Interference analysis		
RF power meter with power sensors		
Optical power meter with power sensors		
Fiber inspection with fiber scope P5000i		
RF signal generator (CW)	–80 dBm to 0 dBm	-60 dBm to +10 dBm
RFoFiber™ technology (CPRI and OBSAI)		
Signal analysis 2/3/4G		
Ethernet, Bluetooth, WiFi connectivity		
StrataSync cloud service	Not available	Not available
Web-based remote control		

Cell Site Maintenance — JD746B/JD786B

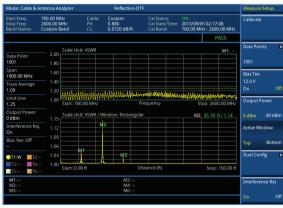
Top-quality cell site maintenance is fundamental for top-quality service assurance. Mobile operators are increasingly challenged to manage fragmented spectrum making, ensuring this valuable resource is suitable for service without any pollution or interference.

In addition, cell sites must properly transmit radio signals with no reflections or intermodulation products that may limit coverage or interfere with mobile signal transmissions.

Maintenance practices cover all different cell site types, including macrocell, DAS, and small cell, with coax and fiber fronthaul where RF and fiber verification is required. Proper maintenance also requires conducting RF over fiber (RFoFiber) analysis in modern cell sites with fiber links (CPRI or OBSAI).



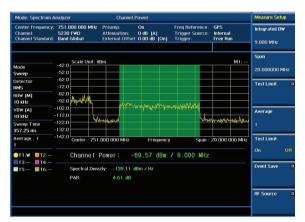
Spectrum analysis with timed traces



Dual test with reflection and DTF

Key Features

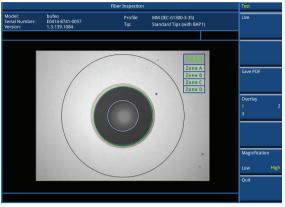
- Spectrum analysis
- Interference analysis
- Coaxial reflection tests
- RF-device insertion gain/loss
- Fiber inspection
- RFoFiber technology
- Bluetooth and WiFi connectivity
- Web-based remote control
- Includes optical power meter



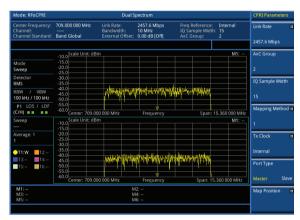
RF conformance tests



Insertion loss



Fiber inspection



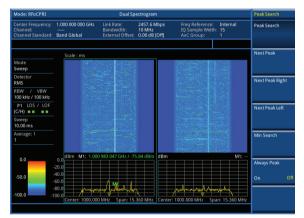
Spectrum analysis with timed traces



Interference finder

Mode: RFoCPRI	Layer 2 Monitori	ing	Measure
Event Logging:	Off Start Time: 03/24 Elapsed Time: 00:00:0	13:11:13 05	Layer 2 Monitorin
Link Rate 2457.6 Mbps	SFP/SFP+ PORT 2 Current History	SFP/SFP+PORT1 Current History	Layer 2 Term
	LOS LOF RAI	LOS OLOF ALI	Interference Analyzer
	Optic Rx Level	Optic Rx Level -5.8 dBm SFP/SFP+ PORT 1 Information	PIM Detection
Limit Line -10.00 dBm	Wavelength: Vendor: PN: Vendor PN: Vendor PN: Power Level Type: Dagnostic Byte: Norman Rate: Man Rate: Mar Rate: Mar Rate: Mar Rate:	Vavelengts information Vavelengts II 330 nm Vendor Pr. JDSU Vendor Rev. 3 Nover Level Type: Average Power Power Level Type: Average Power Norman Reate: — Mbps Max Re. Level. 4.49923 dBm Max Re. Level. 4.49923 dBm	

RFoFiber layer 2 measurements



RF conformance tests



Cell coverage (route map)

|--|--|--|

Cell Site Maintenance	JD746B	JD786B
Frequency range	100 KHz to 4 GHz	9 KHz to 8 GHz
Spectrum analysis		
Channel scanner		
Interference analysis		
Coaxial reflections RL, VSWR, DTF, CL		
Insertion loss/gain		
Signal generator (CW)	•	•
RF power meter with power sensors		
Optical power meter with power sensors		
Fiber inspection with fiber scope P5000i		
RF signal generator (CW)	–80 dBm to 0 dBm	-60 dBm to +10 dBm
RFoFiber technology (CPRI and OBSAI)		
Ethernet, Bluetooth, WiFi connectivity		
StrataSync cloud service	Not available	Not available
Web-based remote control		

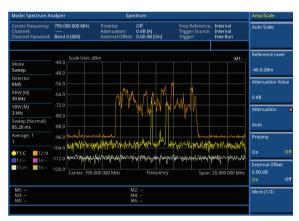
Cell Site Optimization — JD745B/JD785B

Cell Site maintenance is fundamental for service assurance. Mobile operators have an increasing challenge to manage fragmented spectrum making sure this valuable resource is suitable for service without any pollution or interference. And the cell site is properly transmitting the radio signals, with no reflections that will limit coverage, as well as possible intermodulation products are not interfering with mobile's transmission.

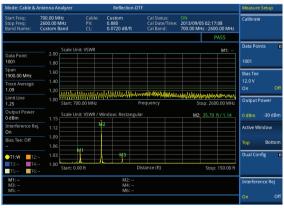
Cell sites must also be optimized to achieve bandwidth capacity where operators must ensure signal performance (modulation quality) of coexisting wireless technologies, from legacy GSM/GPRS and CDMA/EVDO to WCDMA/HSDPA and the new LTE/LTE-A.

Key Features

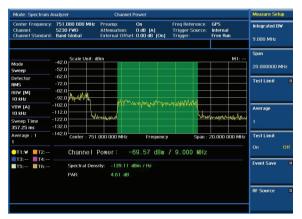
- Spectrum analysis
- Interference analysis
- Coaxial reflection tests
- RF-device insertion gain/loss
- Fiber inspection
- RFoFiber technology
- Signal analysis 2/3/4G
- Bluetooth and WiFi connectivity
- Web-based remote control
- Includes optical power meter



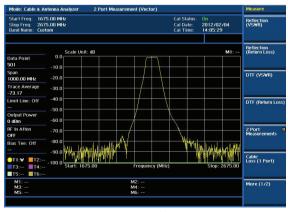
Spectrum analysis with timed traces



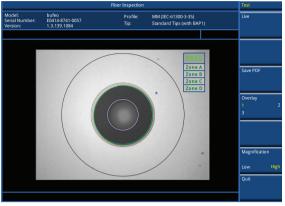
Dual test with reflection and DTF



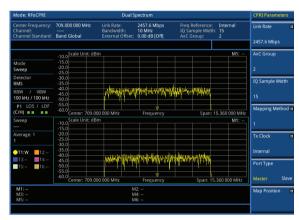
RF conformance tests



Insertion loss



Fiber inspection



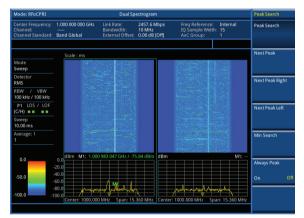
Spectrum analysis with timed traces



Interference finder

Mode: RFoCPRI	Layer 2 Monitoring	Measure
Event Logging:	Off Start Time: 03/2413:11:13 Elapsed Time: 00:00:05	Layer 2 Monitorin
Link Rate 2457.6 Mbps	SFP/SFP+PORT 2 Current History SFP/SFP+PORT 1 Current Histor	Layer 2 Term Y
	LOS LOS LOS LOF RAI SDI LOP SDI LOS LOF SDI LOS SDI LOS AN AN A	Interference Analyzer PIM Detection
Limit Line -10.00 dBm	SPY/SFP+PORT 2 Information SFP/SFP+PORT 1 Information Wavelength: 1310 nm Vendor: Vendor: 1950 Vendor PN: Vendor PN: 15H 8530A1-10 Vendor Rev: Vendor Rev: PN: 15H 8530A1-10 Vendor	

RFoFiber layer 2 measurements



RF conformance tests



Cell coverage (route map)





Cell Site Optimization	JD745B	JD785B	
Frequency range	100 KHz to 4 GHz	9 KHz to 8 GHz	
Spectrum analysis			
Channel scanner			
Interference analysis			
Coaxial reflections RL, VSWR, DTF, CL	•		
Insertion loss/gain			
Signal generator (CW)			
RF power meter with power sensors			
Optical power meter with power sensors			
Fiber inspection with fiber scope P5000i			
RF signal generator (CW)	-80 dBm to 0 dBm	-60 dBm to +10 dBm	
RFoFiber technology (CPRI and OBSAI)			
Signal analysis 2/3/4G			
Ethernet, Bluetooth, WiFi connectivity			
StrataSync™ cloud service	Not available	Not available	
Web-based remote control			



Contact Us +1 844 GO VIAVI (+1 844 468 4284)

To reach the Viavi office nearest you, visit viavisolutions.com/contacts.

© 2023 VIAVI Solutions Inc. Product specifications and descriptions in this document are subject to change without notice. Patented as described at viavisolutions.com/patents celladvisorportfolio-br-nsd-tm-ae 30179581 001 0923

viavisolutions.com