

Client: Avaya	Job Number: J78065
Model: AP 8120	T-Log Number: T78133
	Account Manager: Dean Eriksen
Contact: Vipin Naik	
Standard: FCC 15.E	Class: N/A

**RSS-210 (LELAN) and FCC 15.407(UNII)
Antenna Port Measurement
20dB Bandwidth**

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 7/27/2010 16:06
Test Engineer: Mehran Birgani
Test Location: FT EMC#4

Config. Used: 1
Config Change: -
EUT Voltage: POE

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	20dB BW for 5600-5650 MHz, Legacy A	15.215, 20dBW within the allocated band	Pass	See Plots
2	20dB BW for 5600-5650 MHz, HT20 MHz	15.215, 20dBW within the allocated band	Pass	See Plots
3	20dB BW for 5600-5650 MHz, HT40 MHz	15.215, 20dBW within the allocated band	Pass	See Plots

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Modifications Made During Testing

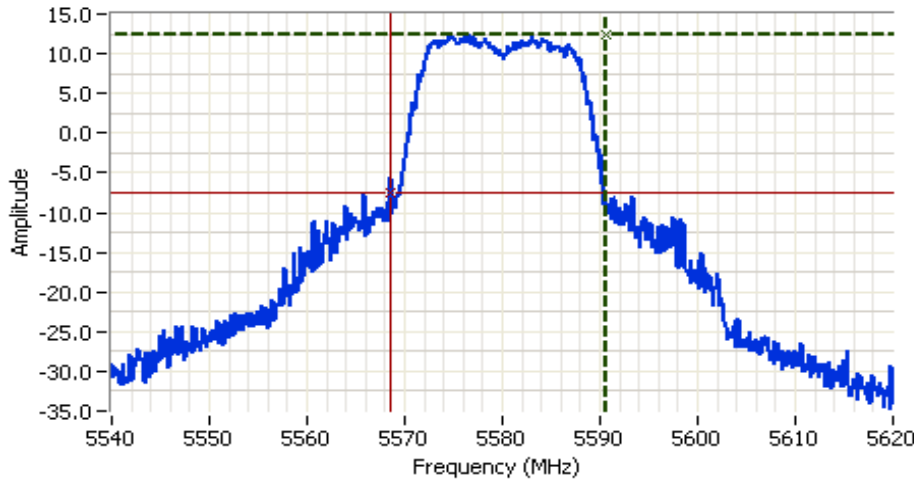
No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Client: Avaya	Job Number: J78065
Model: AP 8120	T-Log Number: T78133
Contact: Vipin Naik	Account Manager: Dean Eriksen
Standard: FCC 15.E	Class: N/A

Run #1: 20dB Bandwidth - Legacy A
Channel closest to 5600 MHz bandedge



Analyzer Settings

HP8564E
CF: 5580.000 MHz
SPAN: 80.000 MHz
RB: 1.000 MHz
VB: 3.000 MHz
Detector: POS
Attn: 10 DB
RL Offset: 11.0 DB
Sweep Time: 50.0ms
Ref Lvl: 11.0 DBM

Comments

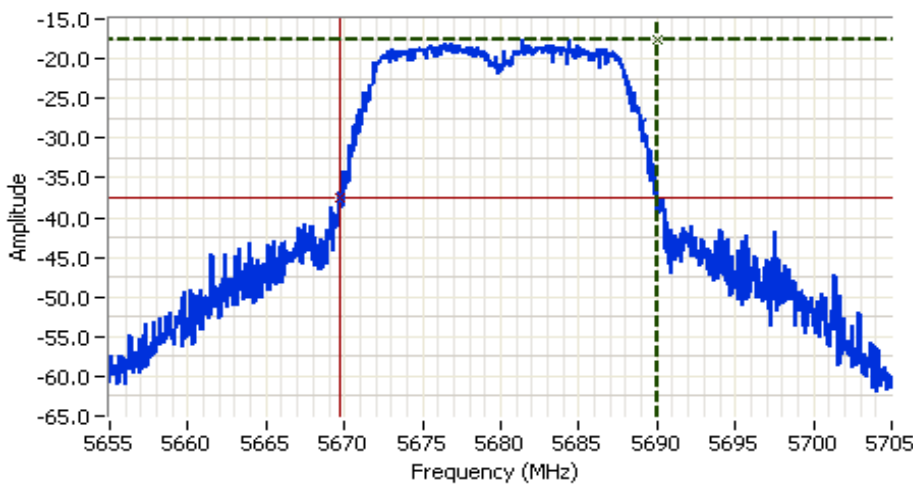
20dB BW: 22.000 MHz

Cursor 1	5590.5333	12.50	
Cursor 2	5568.5333	-7.50	

Delta Freq. 22.000
Delta Amplitude 20.00



Channel closest to 5650 MHz bandedge



Analyzer Settings

Agilent Technologies, E4446A
CF: 5680.000 MHz
SPAN: 50.000 MHz
RB: 1.000 MHz
VB: 3.000 MHz
Detector: POS
Attn: 10 DB
RL Offset: 0.0 DB
Sweep Time: 50.0ms
Ref Lvl: -13.0 DBM

Comments

20dB BW: 20.270 MHz
802.11a

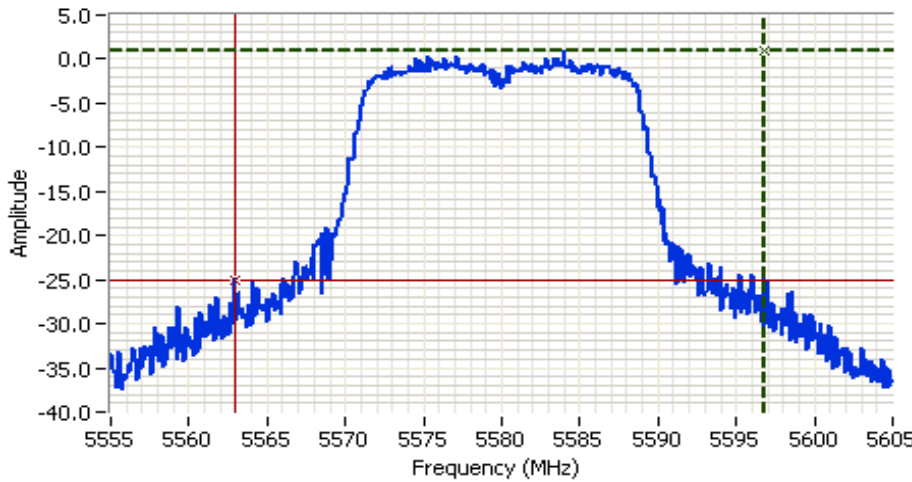
Cursor 1	5689.9850	-17.58	
Cursor 2	5669.7147	-37.58	

Delta Freq. 20.270
Delta Amplitude 20.00



Client: Avaya	Job Number: J78065
Model: AP 8120	T-Log Number: T78133
Contact: Vipin Naik	Account Manager: Dean Eriksen
Standard: FCC 15.E	Class: N/A

Run #2: 20dB Bandwidth - HT20
Channel closest to 5600 MHz bandedge
Note - plot uses 26dB BW, this represent a more stringent condition



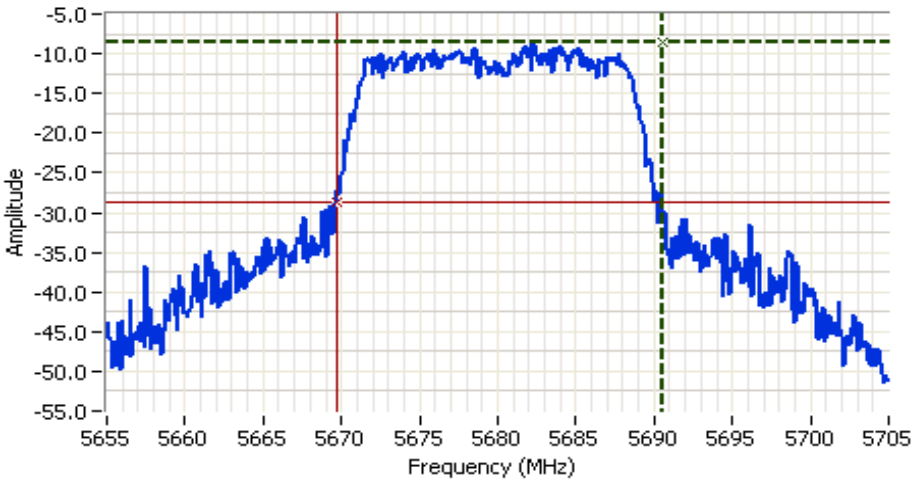
Analyzer Settings
 HP8564E,EMICF: 5580.000 MHz
 SPAN: 50.000 MHz
 RB: 1.000 MHz
 VB: 3.000 MHz
 Detector: POS
 Attn: 10 DB
 RL Offset: 0.0 DB
 Sweep Time: 50.0ms
 Ref Lvl: 0.0 DBM

Comments
 26dB BW: 33.833 MHz
 Chain 1

Cursor 1 5596.7500 1.00
 Cursor 2 5562.9167 -25.00
 Delta Freq. 33.833
 Delta Amplitude 26.00



Channel closest to 5650 MHz bandedge



Analyzer Settings
 Agilent Technologies, E4446A
 CF: 5680.000 MHz
 SPAN: 50.000 MHz
 RB: 1.000 MHz
 VB: 3.000 MHz
 Detector: POS
 Attn: 10 DB
 RL Offset: 11.0 DB
 Sweep Time: 1.0ms
 Ref Lvl: -7.5 DBM

Comments
 20dB BW: 20.833 MHz

Cursor 1 5690.5000 -8.64
 Cursor 2 5669.6667 -28.64
 Delta Freq. 20.833
 Delta Amplitude 20.00

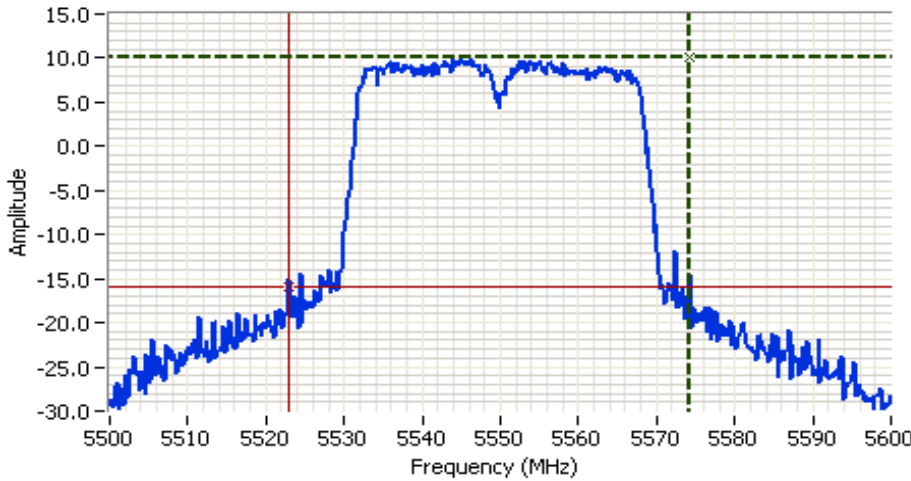


Client: Avaya	Job Number: J78065
Model: AP 8120	T-Log Number: T78133
Contact: Vipin Naik	Account Manager: Dean Eriksen
Standard: FCC 15.E	Class: N/A

Run #3: 20dB Bandwidth - HT40

Channel closest to 5600 MHz bandedge

Note - plot uses 26dB BW, this represent a more stringent condition



Analyzer Settings

Rohde&Schwarz, ESI
CF: 5550.000 MHz
SPAN: 100.000 MHz
RB: 1.000 MHz
VB: 3.000 MHz
Detector: POS
Attn: 20 DB
RL Offset: 11.0 DB
Sweep Time: 5.0ms
Ref Lvl: 14.0 DBM

Comments

26dB BW: 51.303 MHz

Chain 1

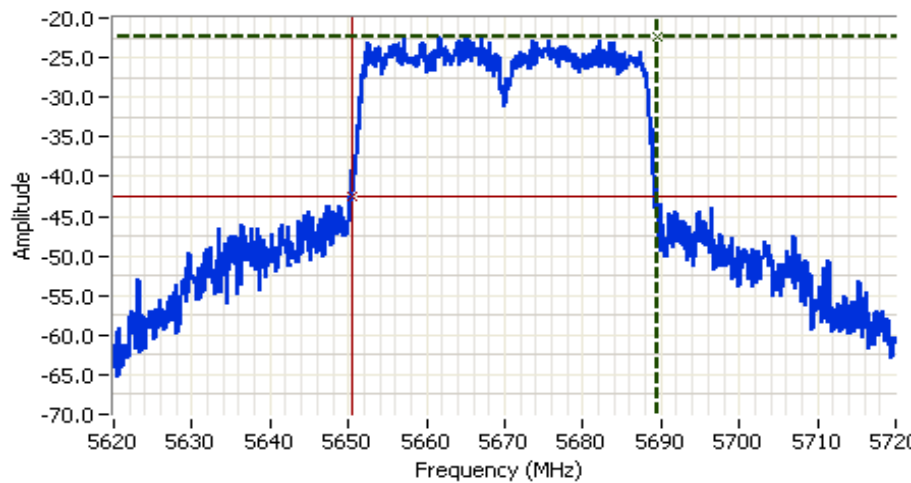
Cursor 1	5574.3487	10.08	
Cursor 2	5523.0461	-15.92	

Delta Freq. 51.303

Delta Amplitude 26.00



Channel closest to 5650 MHz bandedge



Analyzer Settings

Agilent Technologies, E4446A
CF: 5670.000 MHz
SPAN: 100.000 MHz
RB: 1.000 MHz
VB: 3.000 MHz
Detector: POS
Attn: 10 DB
RL Offset: 0.0 DB
Sweep Time: 1.1ms
Ref Lvl: -16.5 DBM

Comments

20dB BW: 38.939 MHz

Cursor 1	5689.4695	-22.41	
Cursor 2	5650.5305	-42.41	

Delta Freq. 38.939

Delta Amplitude 20.00

