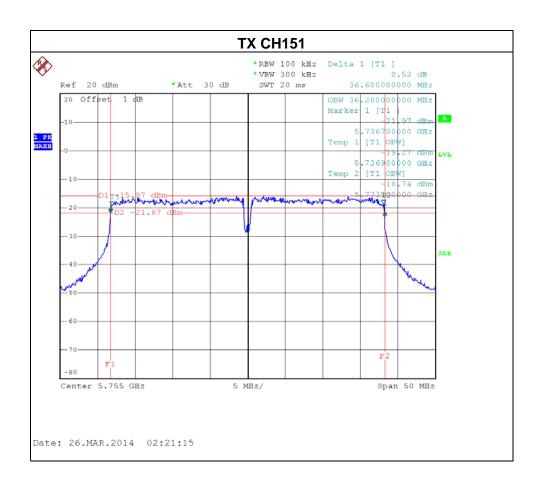
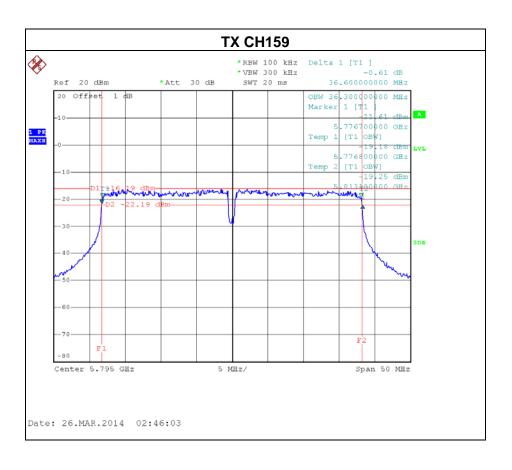


IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name. :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159		



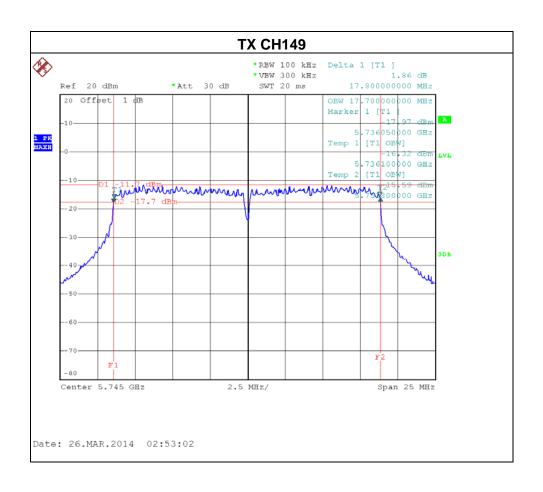
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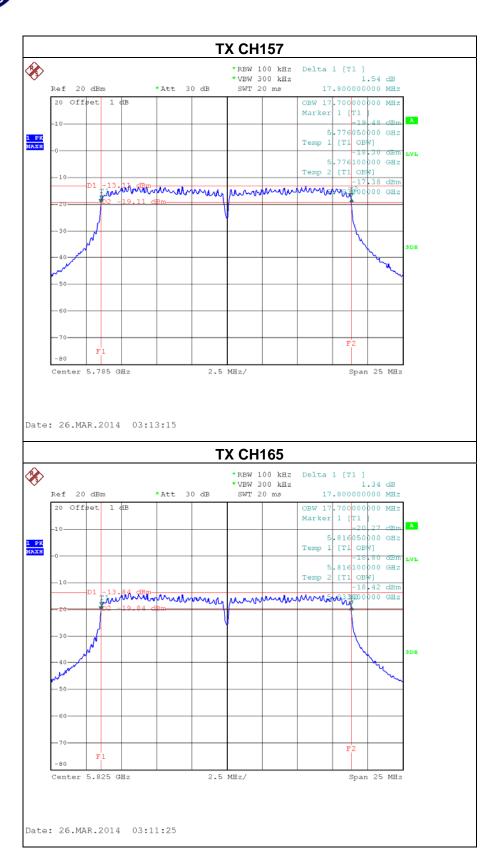


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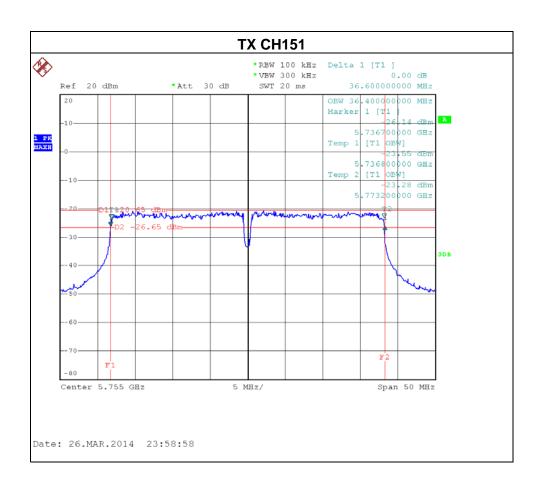
H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name. :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165			



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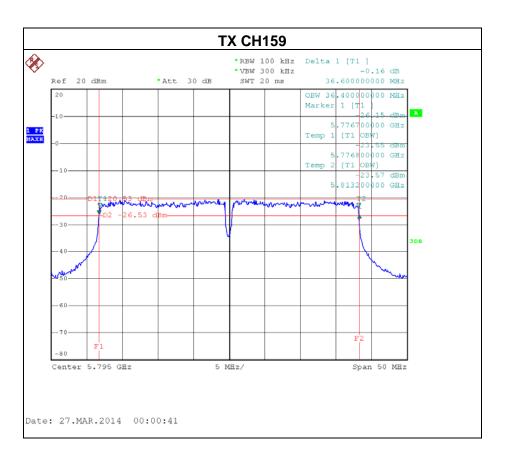


IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name. :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX AC 40 Mode /CH151, CH159			



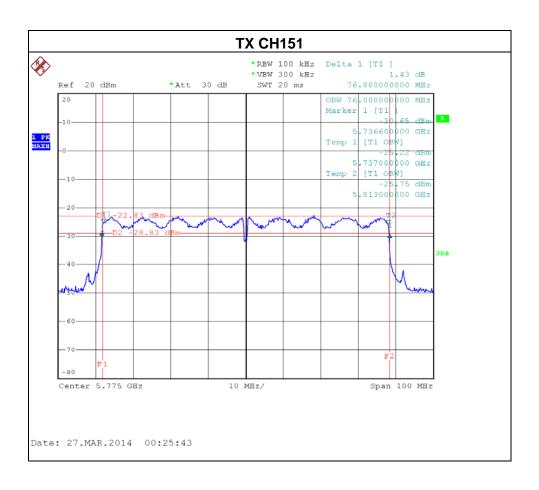
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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name. :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 80 Mode /CH155		



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### 6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	5725 - 5825	PASS	

#### **6.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 25, 2014
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

### **6.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01(A,N20,N40 mode) and 662911 D01 Multiple Transmitter Output v01r02(N20,N40 mode)

### 6.1.3 DEVIATION FROM STANDARD

No deviation.

### 6.1.4 TEST SETUP

EUT	Power Meter
	1 5 WEI WICKET

#### **6.1.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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### 6.1.6 TEST RESULTS

IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX A Mode /CH149, CH157, CH165			

		ANT 6		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH149	5745 MHz	12.89	30	1
CH157	5785 MHz	12.69	30	1
CH165	5825 MHz	12.45	30	1

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I⊢III.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N20 Mode /CH149, CH157, CH165			

		ANT 6		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH149	5745 MHz	12.88	30	1
CH157	5785 MHz	12.71	30	1
CH165	5825 MHz	12.75	30	1

		ANT 7		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH149	5745 MHz	12.71	30	1
CH157	5785 MHz	12.53	30	1
CH165	5825 MHz	12.83	30	1

ANT 6 + ANT 7					
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)	
CH149	5745 MHz	15.81	30	1	
CH157	5785 MHz	15.63	30	1	
CH165	5825 MHz	15.80	30	1	

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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159		

		ANT 6		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH151	5755 MHz	12.64	30	1
CH159	5795 MHz	12.48	30	1

		ANT 7		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH151	5755 MHz	12.72	30	1
CH159	5795 MHz	12.57	30	1

ANT 6 + ANT 7				
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH151	5755 MHz	15.69	30	1
CH159	5795 MHz	15.54	30	1

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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780		
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %		
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165				

		ANT 6		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH149	5745 MHz	12.88	30	1
CH157	5785 MHz	12.70	30	1
CH165	5825 MHz	12.51	30	1

ANT 7					
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)	
CH149	5745 MHz	12.71	30	1	
CH157	5785 MHz	12.53	30	1	
CH165	5825 MHz	12.85	30	1	

		ANT 6 + ANT 7		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH149	5745 MHz	15.81	30	1
CH157	5785 MHz	15.63	30	1
CH165	5825 MHz	15.69	30	1

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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780		
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %		
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC 40 Mode /CH151, CH159				

		ANT 6		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH151	5755 MHz	12.64	30	1
CH159	5795 MHz	12.48	30	1

		ANT 7		
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH151	5755 MHz	12.72	30	1
CH159	5795 MHz	12.57	30	1

ANT 6 + ANT 7				
Test Channel Frequency (MHz) Maximum Output Power (dBm) LIMIT (dBm) (W)				
CH151	5755 MHz	15.69	30	1
CH159	5795 MHz	15.54	30	1

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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 80 Mode /CH155		

ANT 6				
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH155	5795 MHz	12.65	30	1

ANT 7				
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH155	5795 MHz	12.42	30	1

ANT 6 + ANT 7				
Test Channel	Frequency (MHz)	Maximum Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH155	5755 MHz	15.55	30	1

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### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 Applied procedures / limit

20dB in any 100 KHz bandwidth outside the operating frequency band, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fragueray (MIII-)	(dBuV/m) (	at 3 meters)
Frequency (MHz)	Peak	Average
Above 1000	74	54

### 7.1.1 MEASUREMENT INSTRUMENTS LIST

	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Ī	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

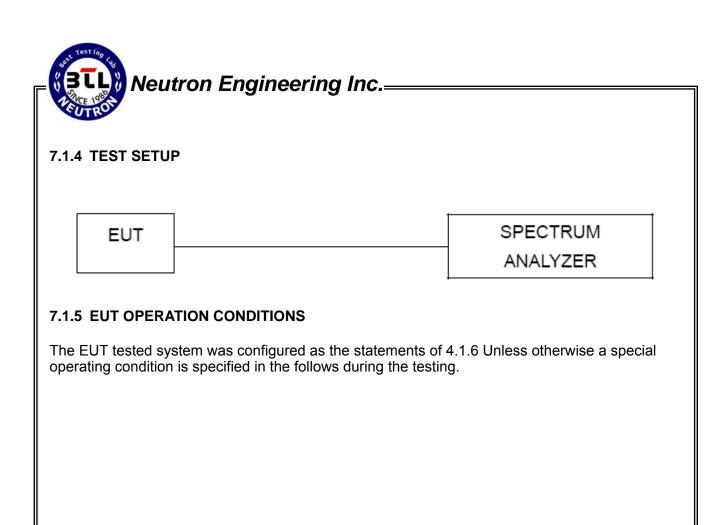
### 7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time =20 ms.

### 7.1.3 DEVIATION FROM STANDARD

No deviation.

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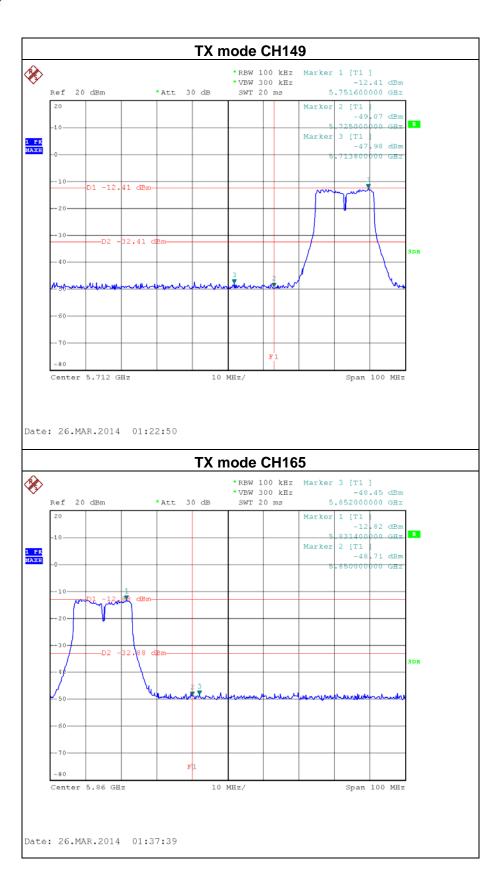


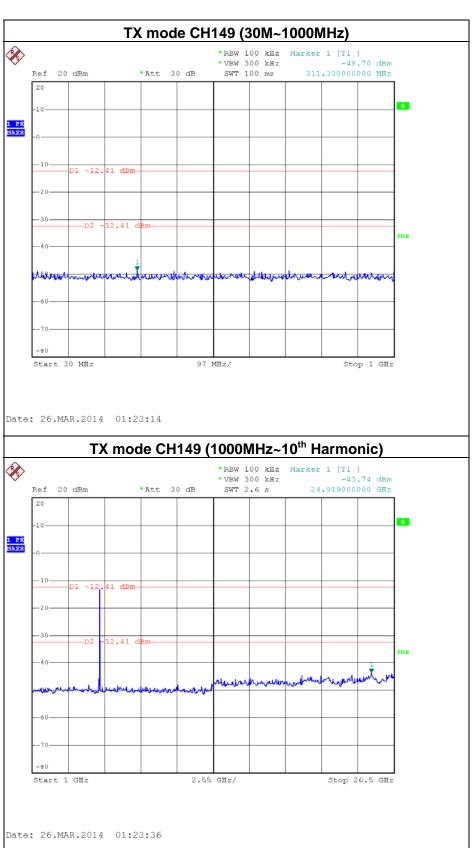
Report No.: NEI-FCCP-3-1402C047 Page 107 of 181

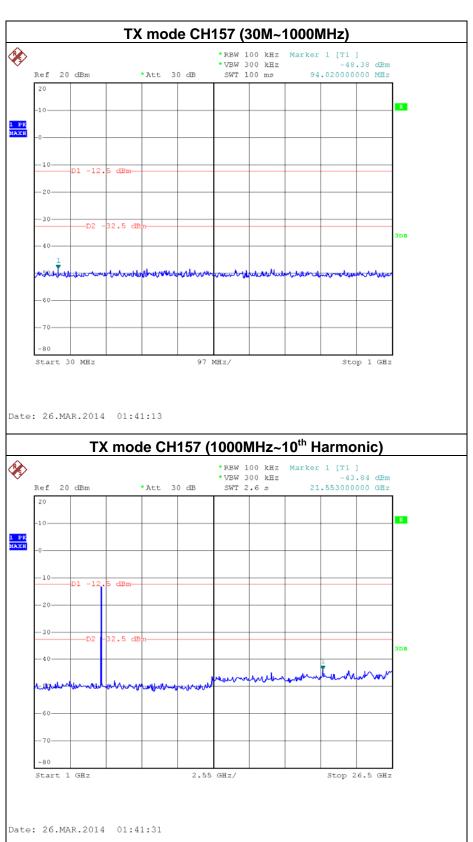
### 7.1.6 TEST RESULTS

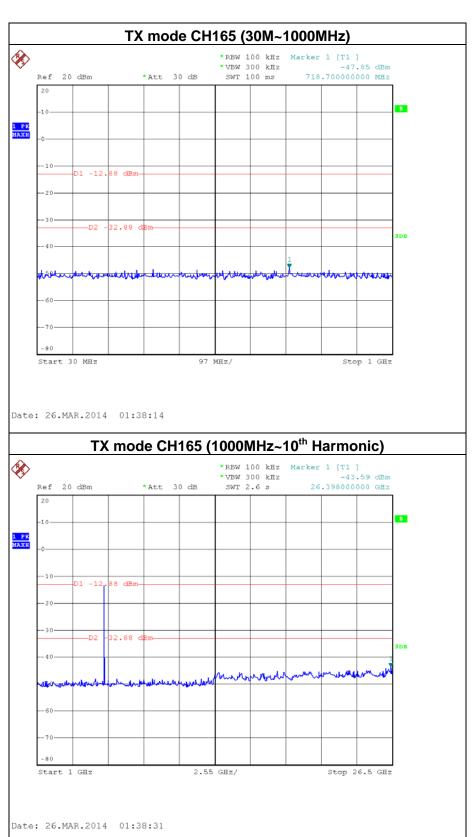
H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX A Mode /CH149, CH157, CH165		

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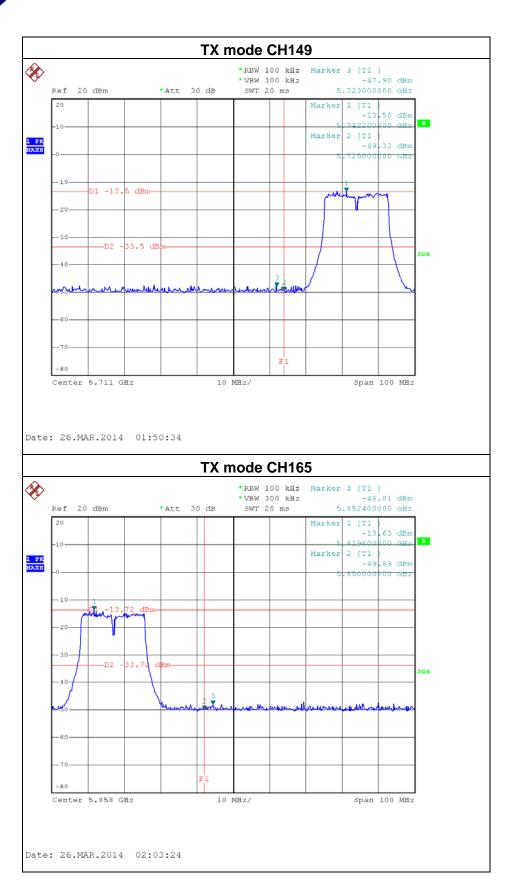


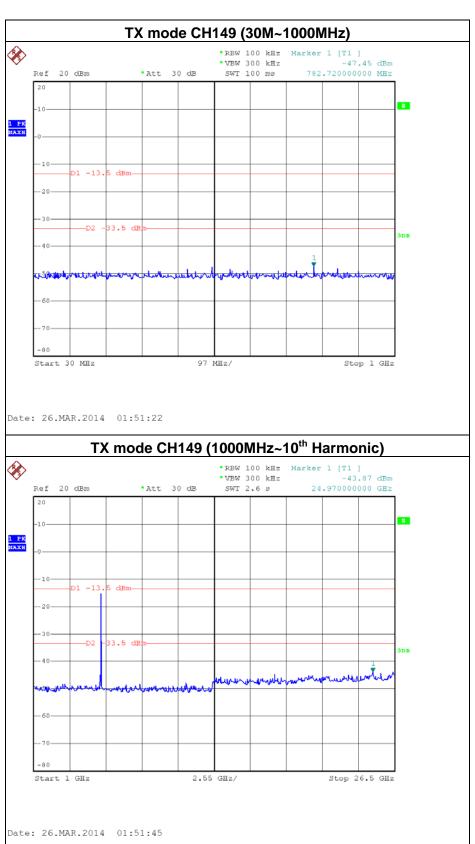


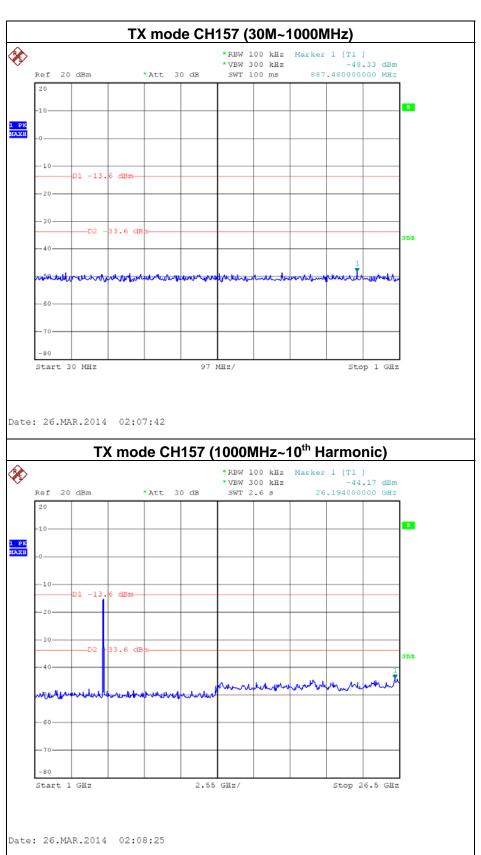


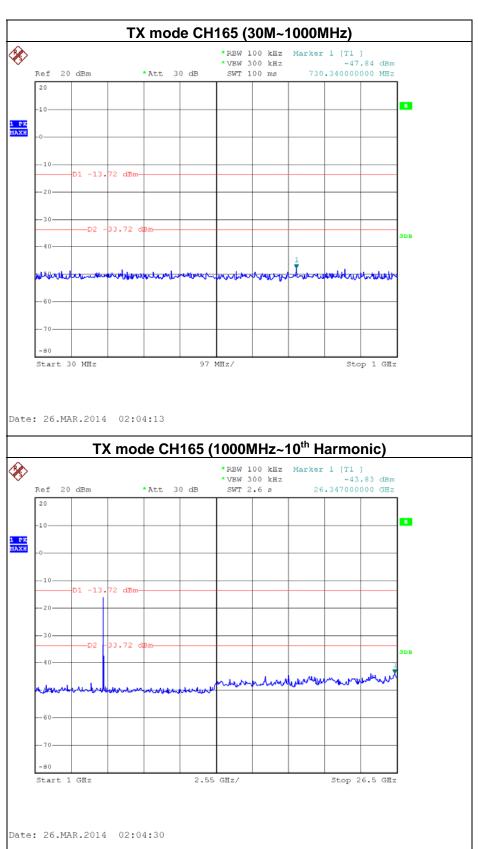
H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20Mode /CH149, CH157, CH165 / ANT 6		

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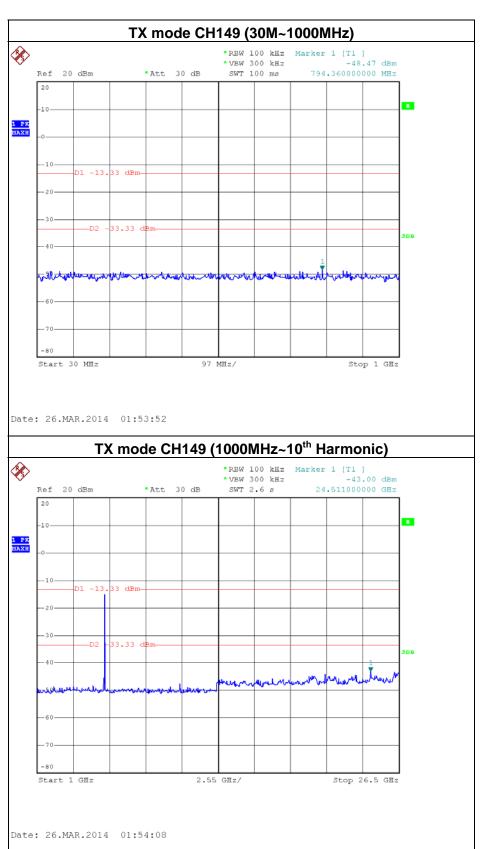


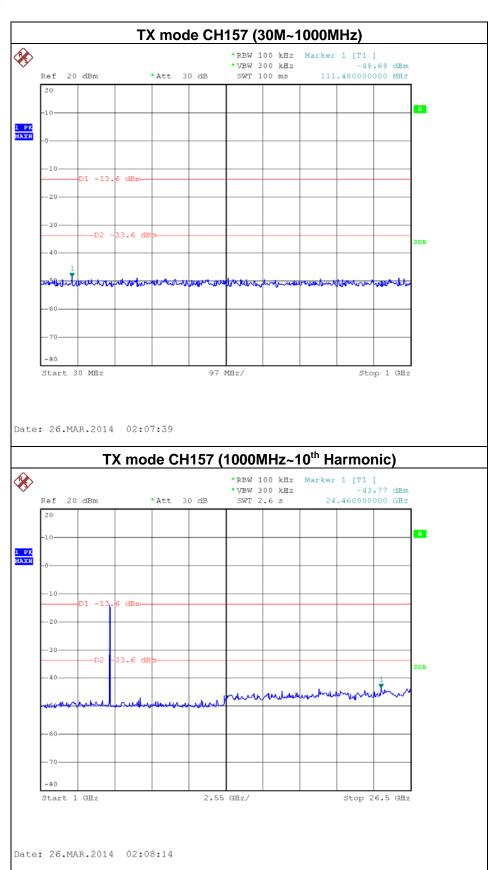
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Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 Mode /CH149, CH157, CH165 / ANT 7		

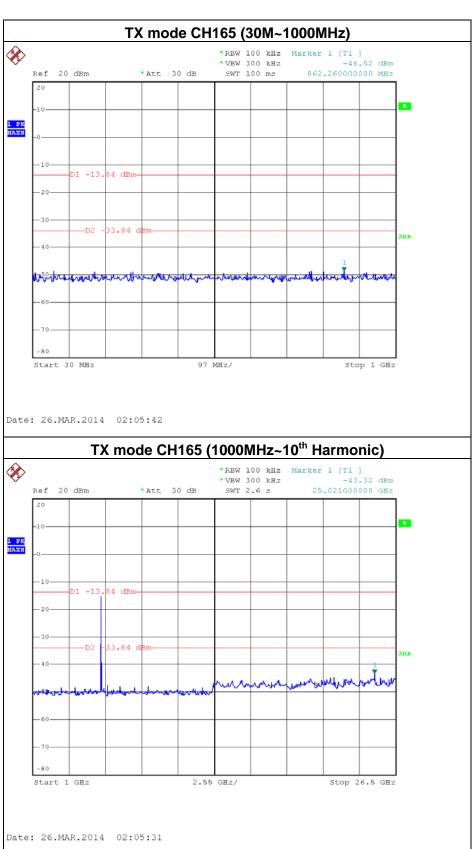
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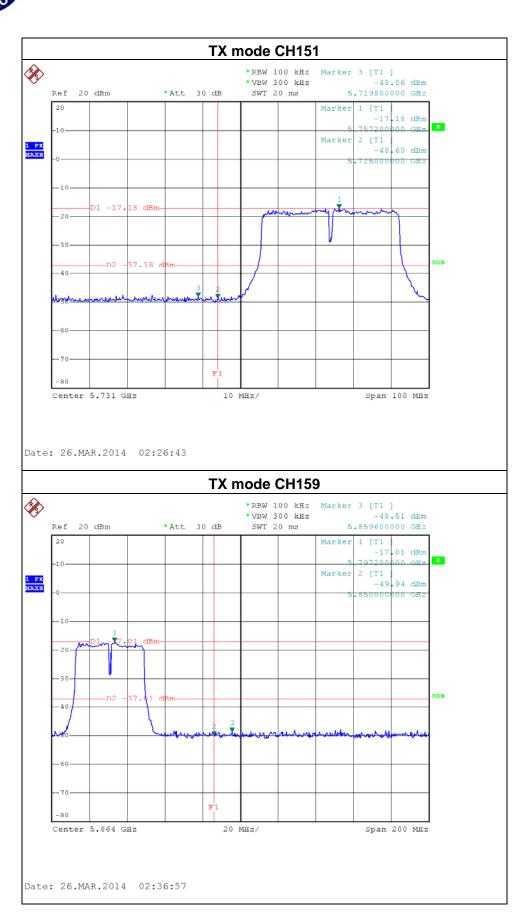




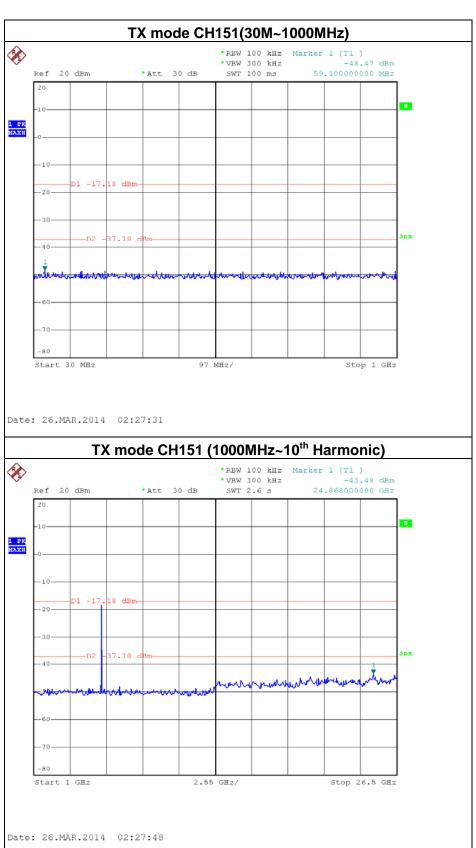


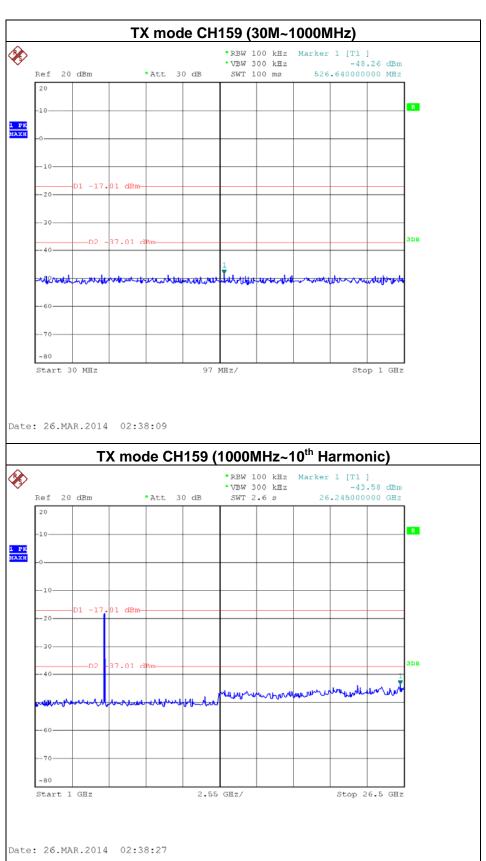
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Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159 / ANT 6		

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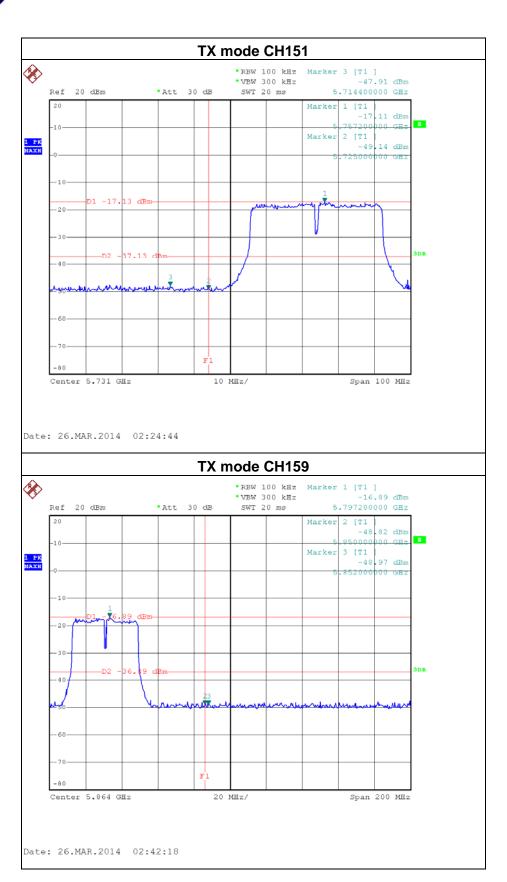


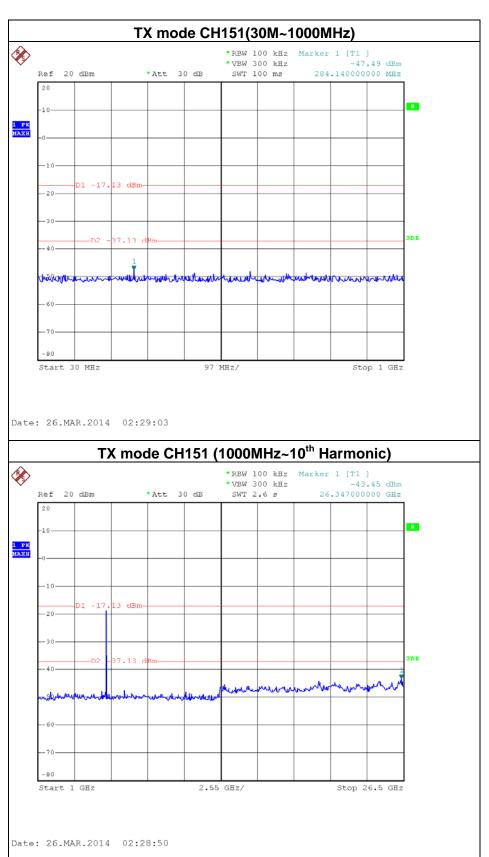


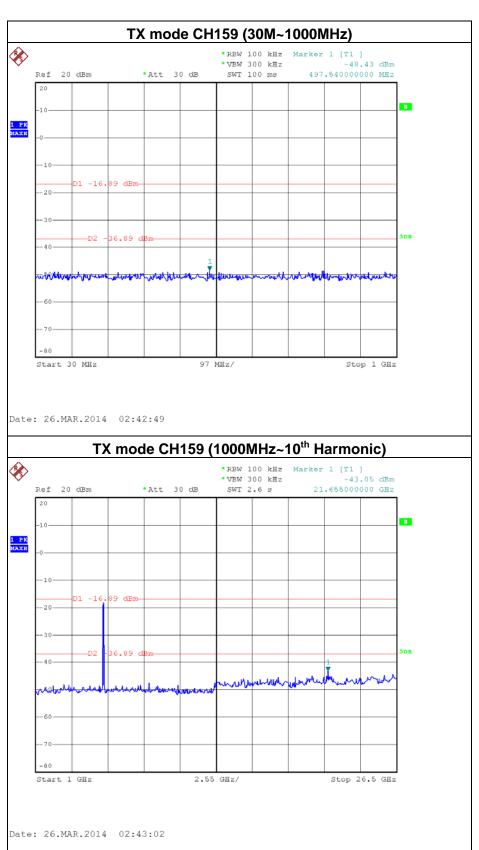


H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	Test Voltage : AC 120V/60Hz			
Test Mode :	TX N40 Mode /CH151, CH159 / ANT 7			

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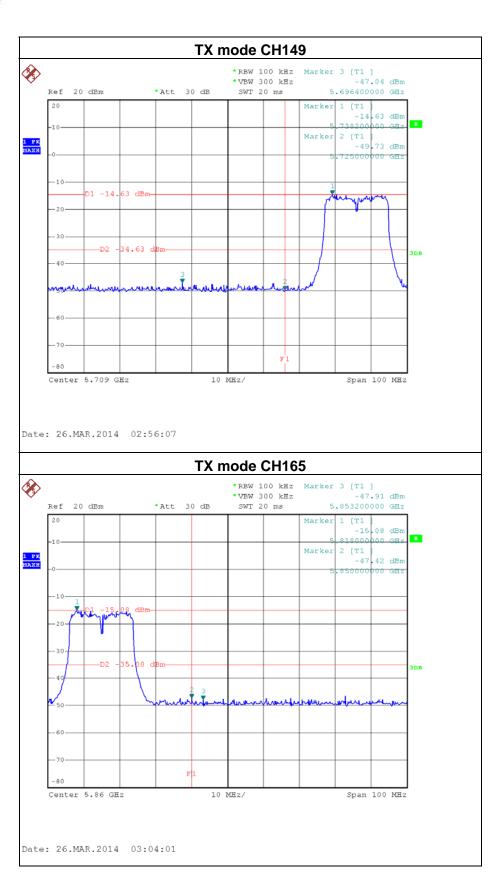


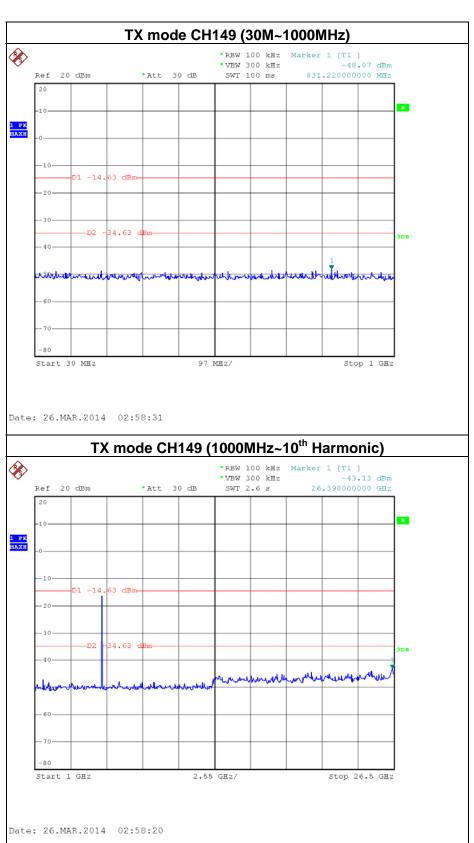


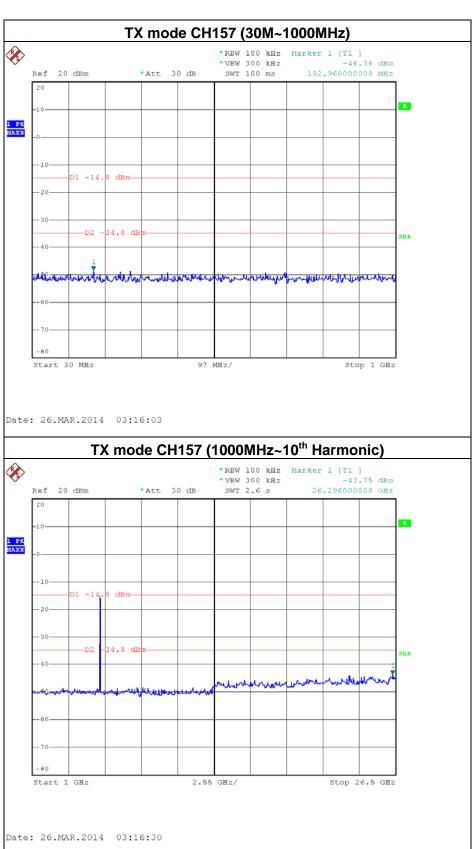


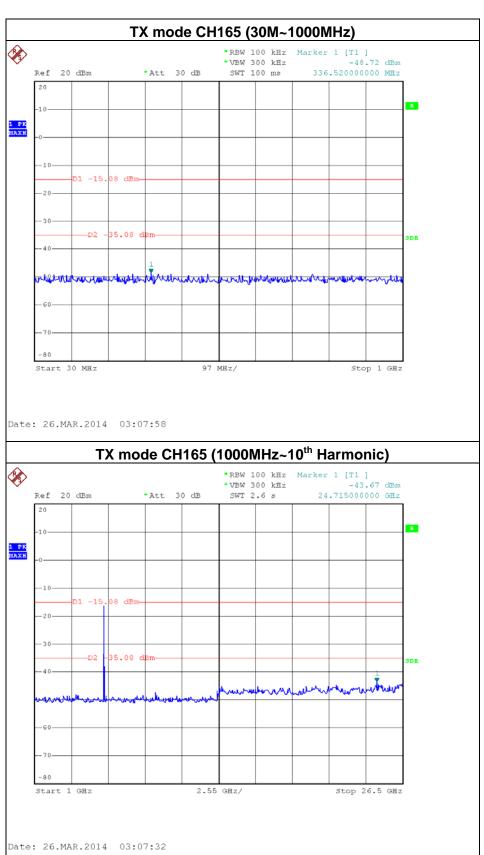
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Temperature:	<b>25</b> ℃	Relative Humidity:	58 %		
Pressure:	1010 hPa	010 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165 / ANT 6				

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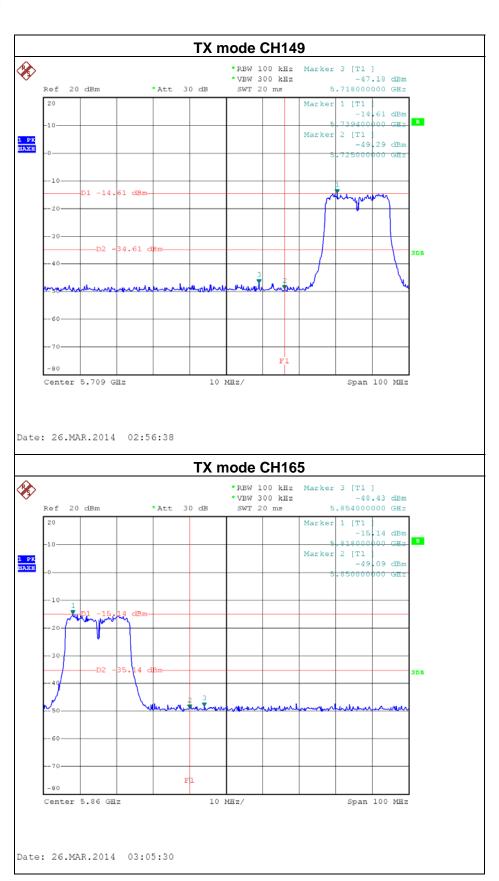


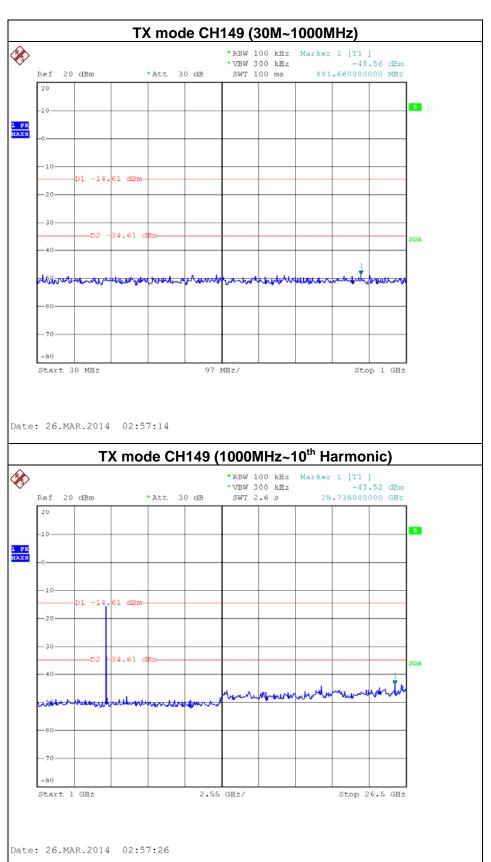


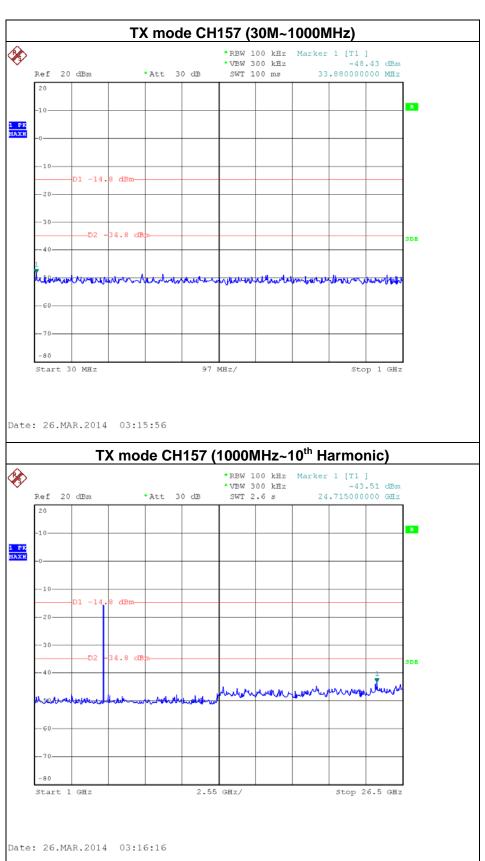


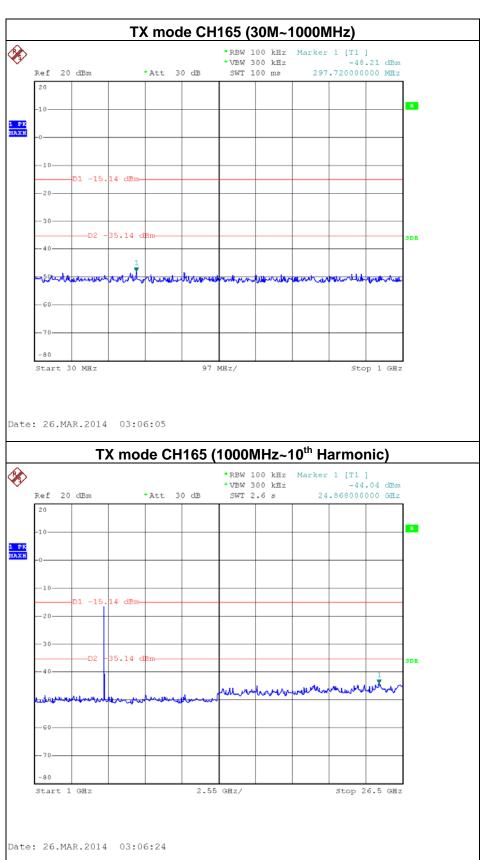
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Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	Test Voltage : AC 120V/60Hz			
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165 / ANT 7			

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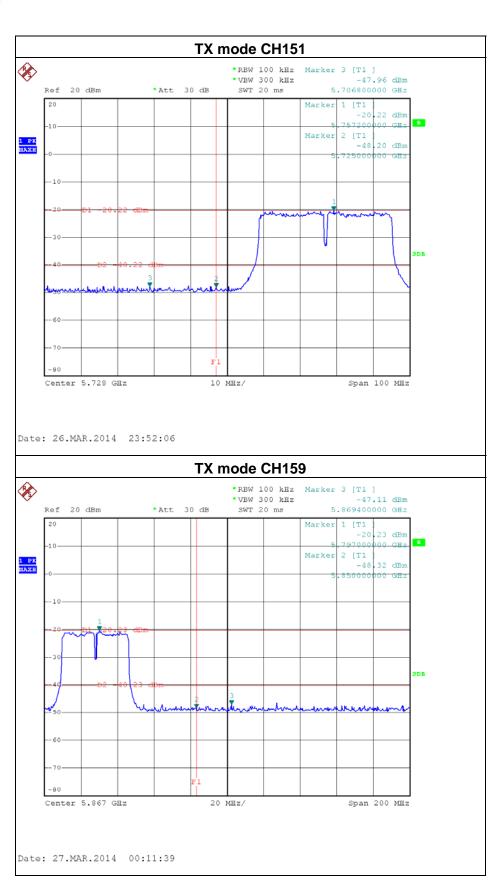


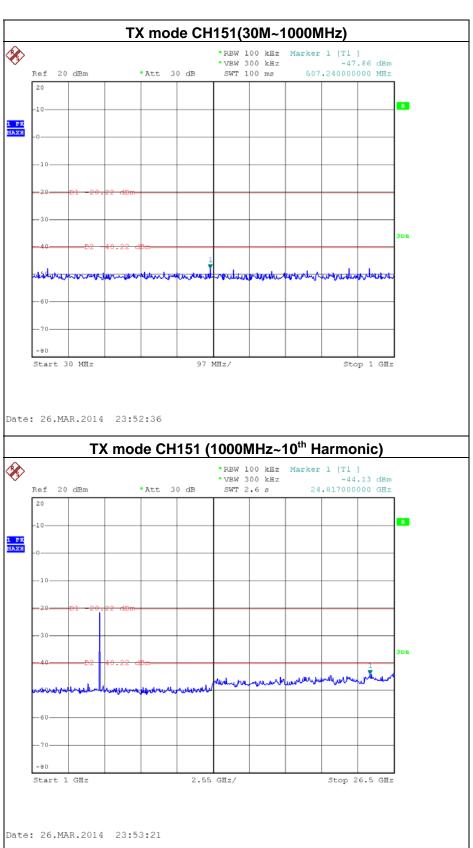


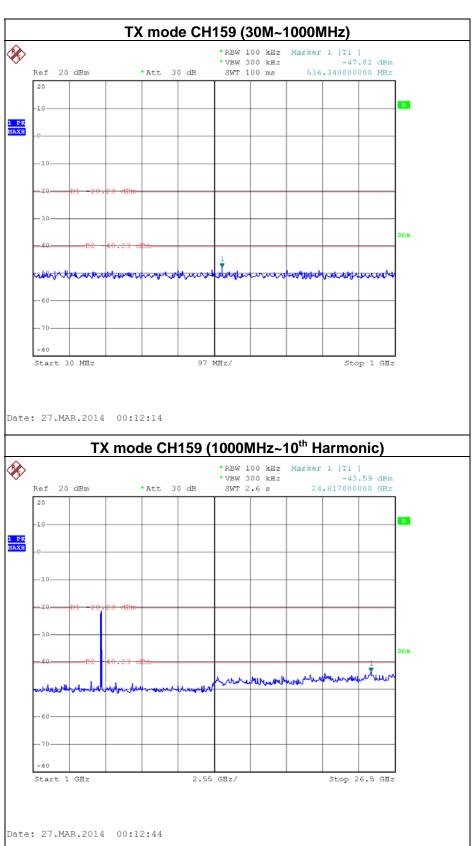


H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	1010 hPa	AC 120V/60Hz		
Test Mode :	TX AC 40 Mode /CH151, CH159 / ANT 6			

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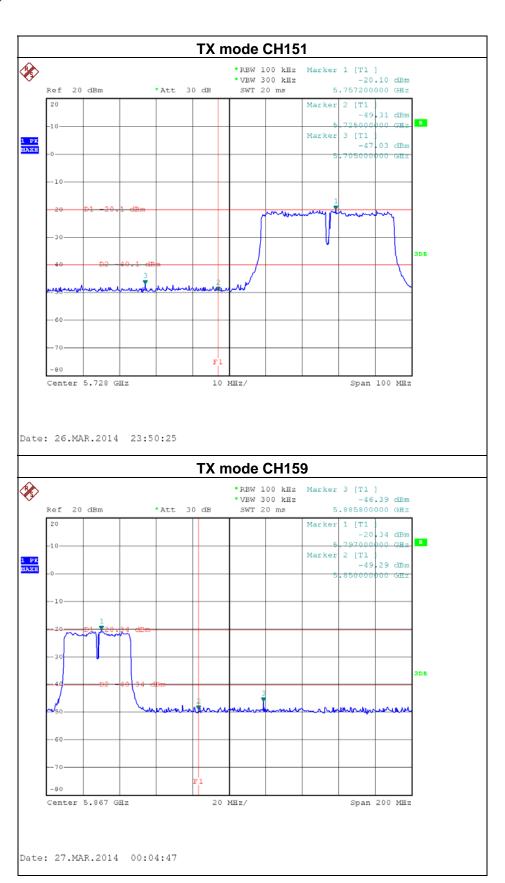


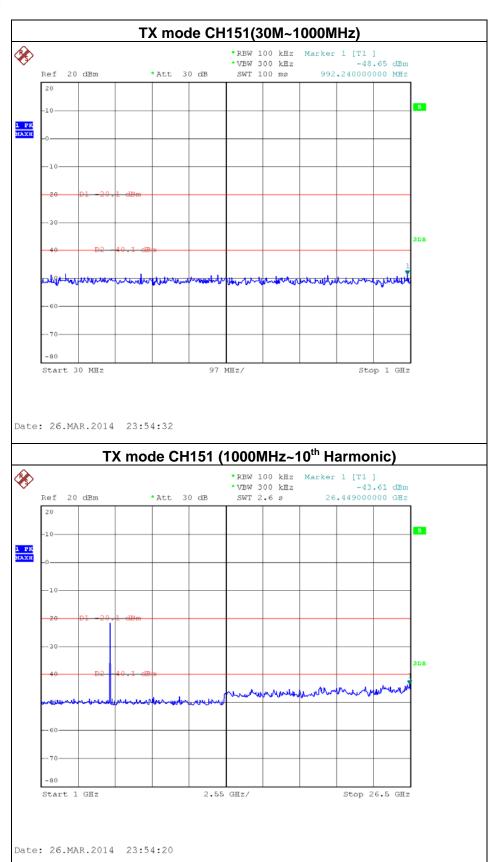


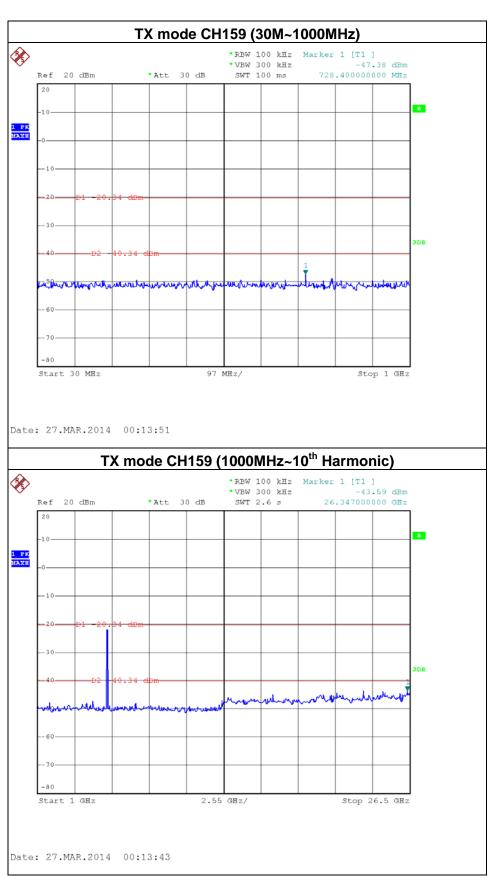


I⊢III.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780		
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %		
Pressure:	1010 hPa	AC 120V/60Hz			
Test Mode :	TX AC 40 Mode /CH151, CH159 / ANT 7				

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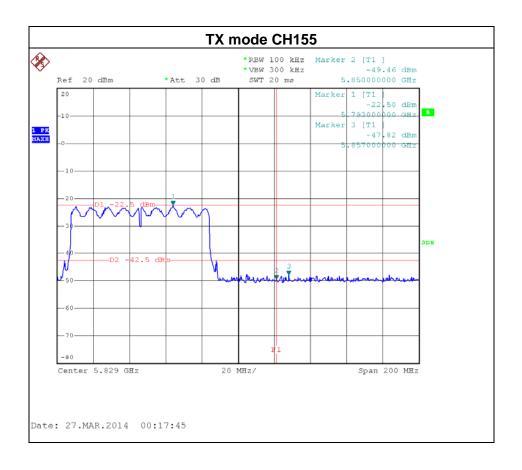




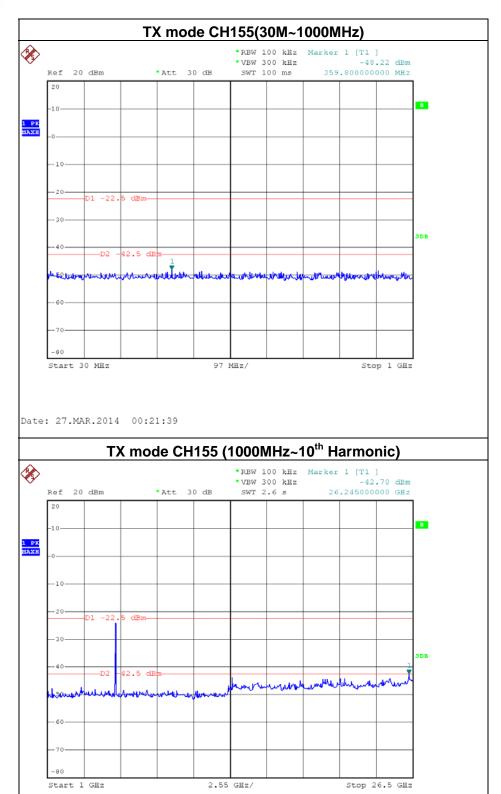


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I⊨111 <sup>*</sup>	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	Test Voltage : AC 120V/60Hz			
Test Mode :	TX AC 80 Mode /CH155 / ANT 6			

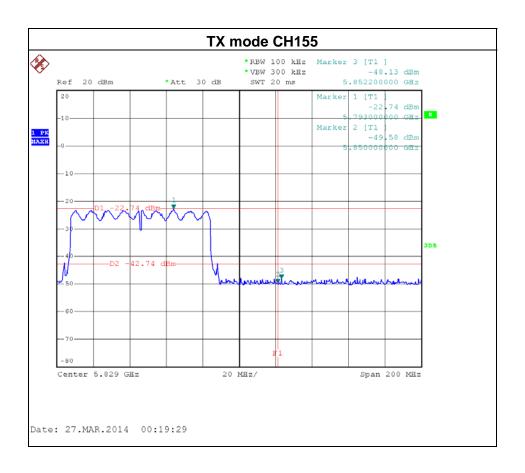


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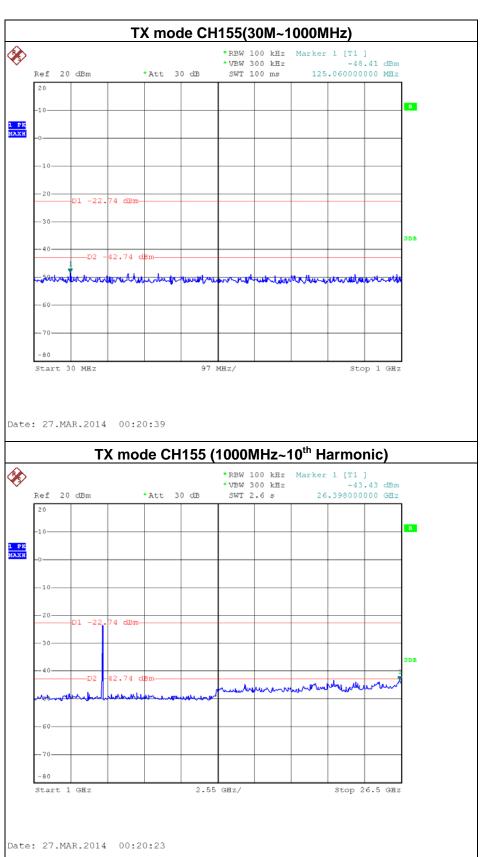


Date: 27.MAR.2014 00:22:18

F111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %	
Pressure:	Test Voltage : AC 120V/60Hz			
Test Mode :	TX AC N80 Mode /CH155 / ANT 7			



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#### 8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

<u> </u>							
	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	5745 - 5825	PASS			

#### **8.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

#### **8.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = auto.
- C. The power spectral density was performed in accordance with method 10.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r01 (A, N20, N40 mode) and 662911 D01 Multiple Transmitter Output v01r02. (N20,N40 mode)

#### 8.1.3 DEVIATION FROM STANDARD

No deviation.

#### 8.1.4 TEST SETUP



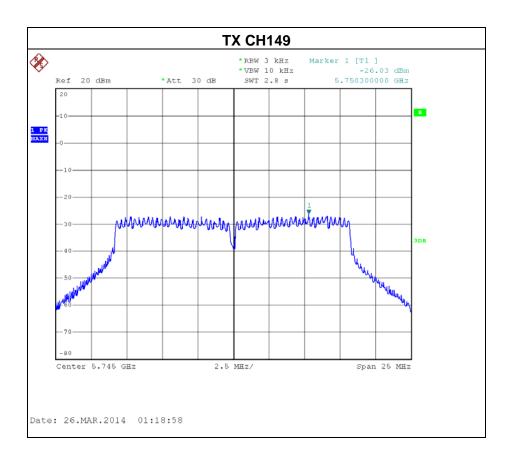
#### **8.1.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

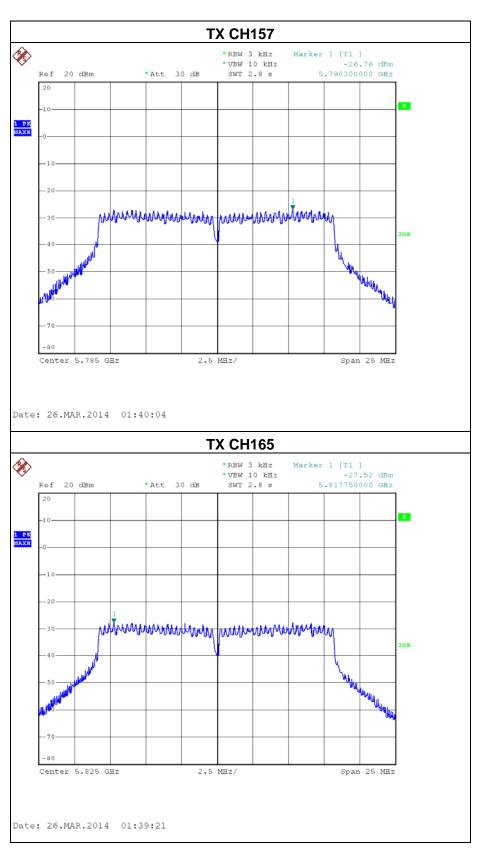
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#### 8.1.6 TEST RESULTS

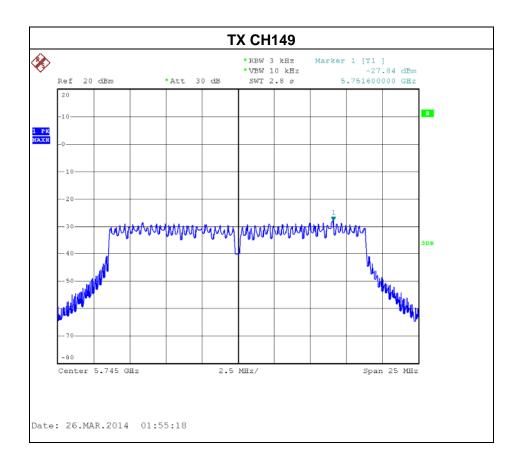
IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %	
Pressure:	1010 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	TX A Mode /CH149, CH157, CH165			



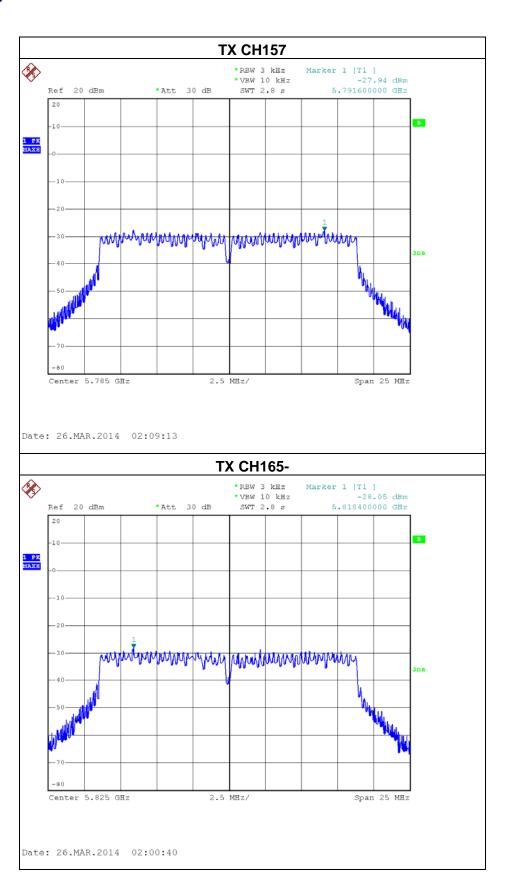
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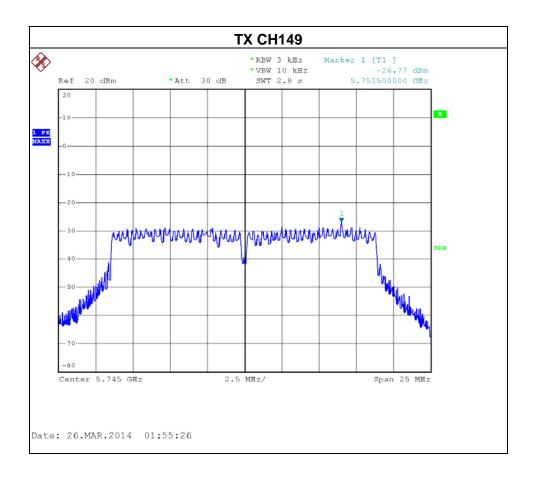
H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N20 Mode /CH149, CH157, CH165 / ANT 6			



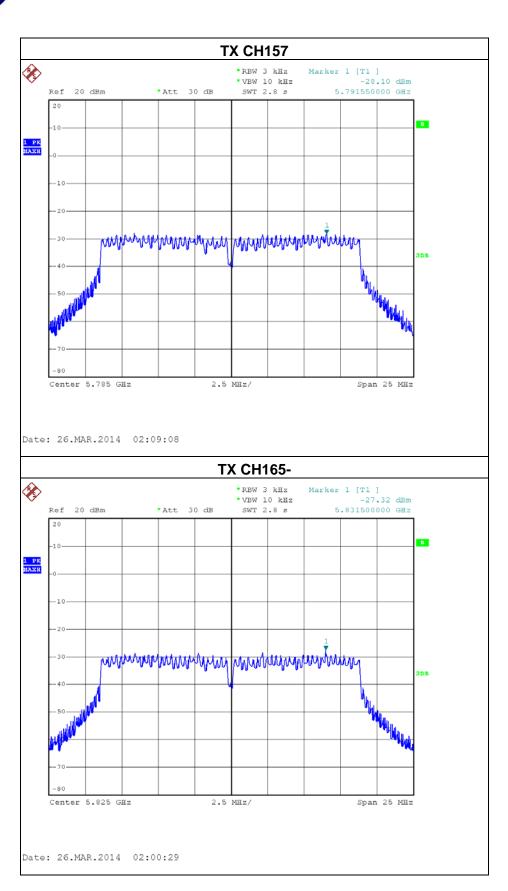
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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N20 Mode /CH149, CH157, CH165 / ANT 7			



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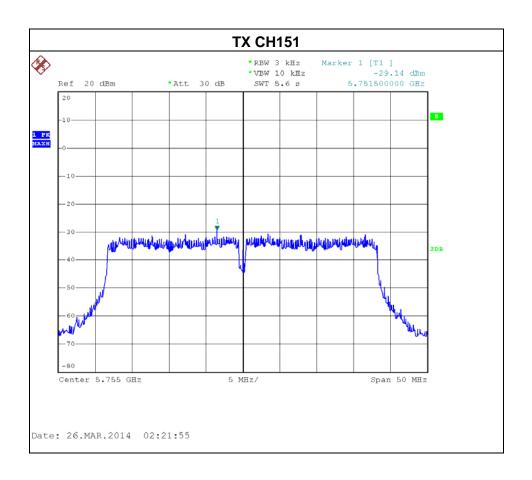
H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 Mode /CH149, CH157, CH165		

ANT 6 + ANT 7					
Test Channel	Frequency	Power Density	LIMIT		
	(MHz)	(dBm)	(dBm)		
CH149	5745 MHz	-24.26	8		
CH157	5785 MHz	-25.01	8		
CH165	5825 MHz	-24.66	8		

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R). all transmit signals are completely uncorrelated.

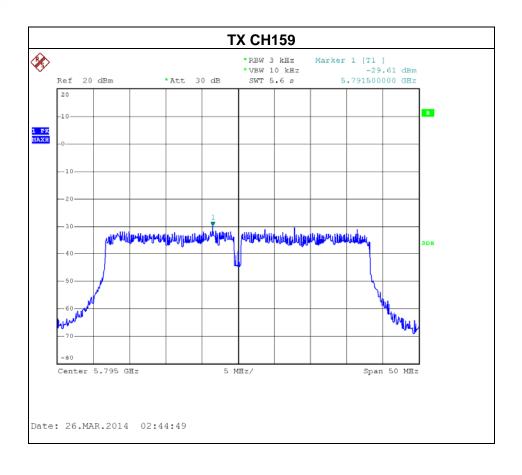
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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780	
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %	
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N40 Mode /CH151, CH159 / ANT 6			



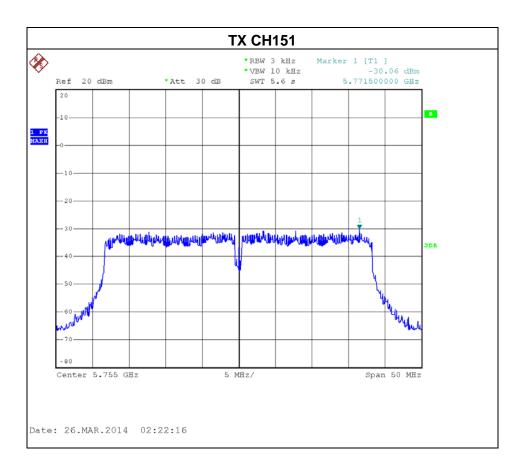
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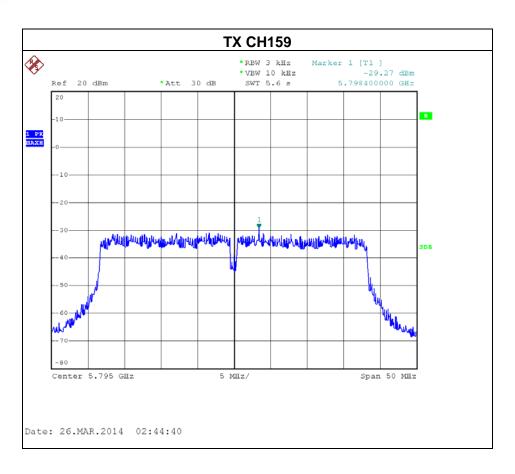
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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	23 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159 / ANT 7		



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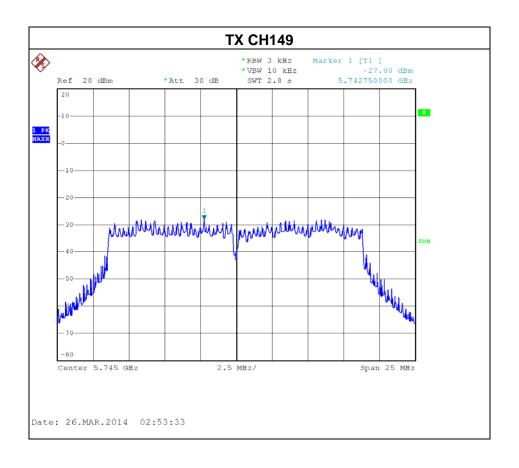
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I⊨111'	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159		

ANT 6+ANT 7			
Test Channel	Frequency	Power Density	LIMIT
rest Chamilei	(MHz)	(dBm)	(dBm)
CH151	5755 MHz	-26.57	8
CH159	5795 MHz	-26.43	8

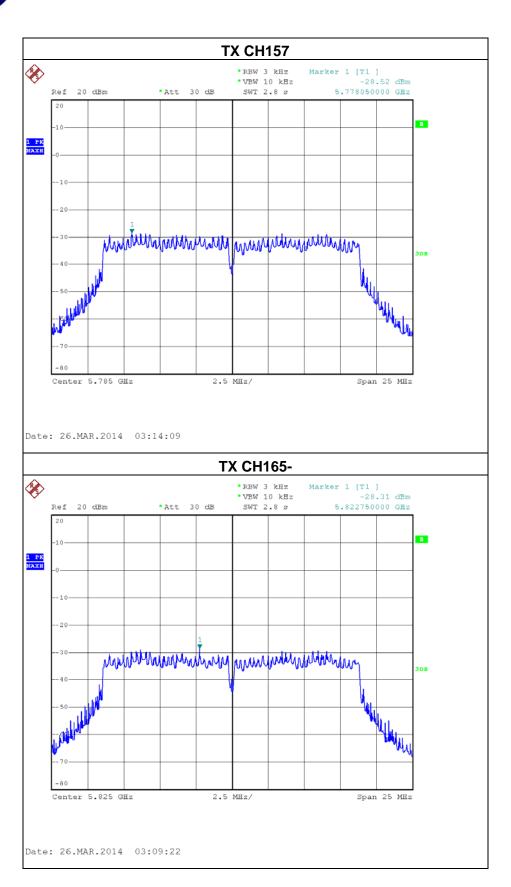
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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	est Mode: TX AC 20 Mode /CH149, CH157, CH165 / ANT 6		



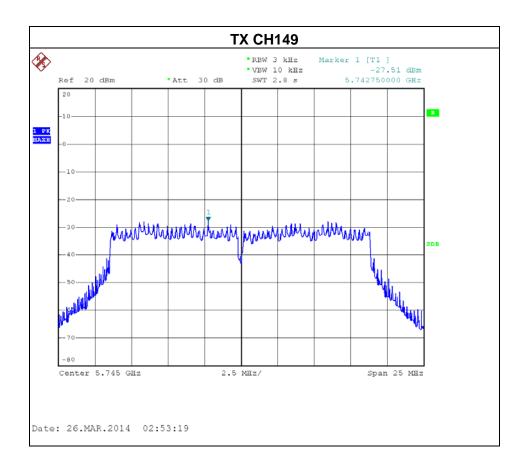
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# Neutron Engineering Inc.



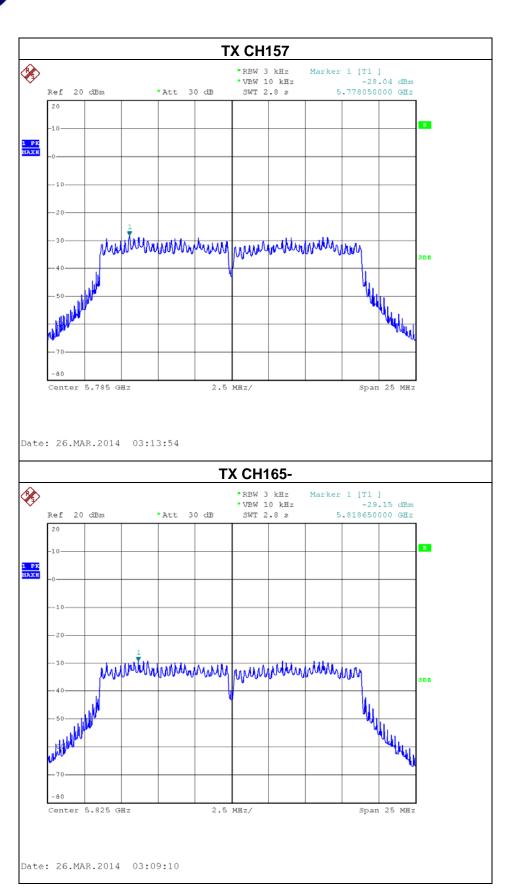
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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	23 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165 / ANT 7		



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# Neutron Engineering Inc.



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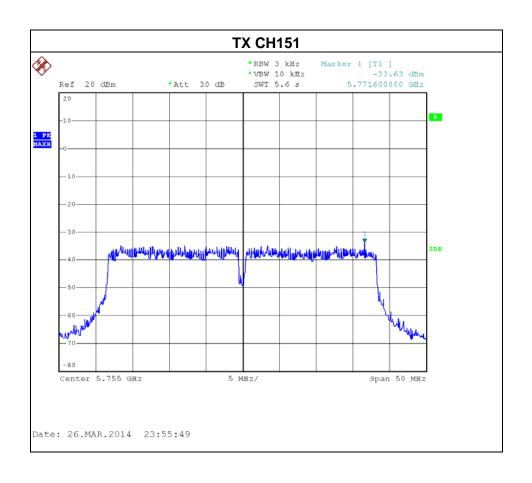


IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 20 Mode /CH149, CH157, CH165		

ANT 6 + ANT 7			
Test Channel	Frequency	Power Density	LIMIT
lest Chamilei	(MHz)	(dBm)	(dBm)
CH149	5745 MHz	-24.64	8
CH157	5785 MHz	-25.26	8
CH165	5825 MHz	-25.70	8

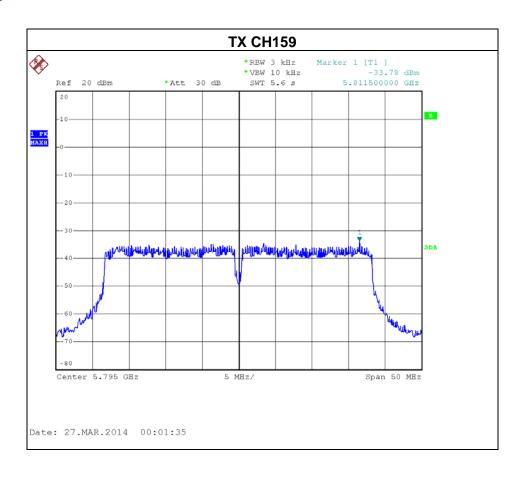
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IF111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 40 Mode /CH151, CH159 / ANT 6		



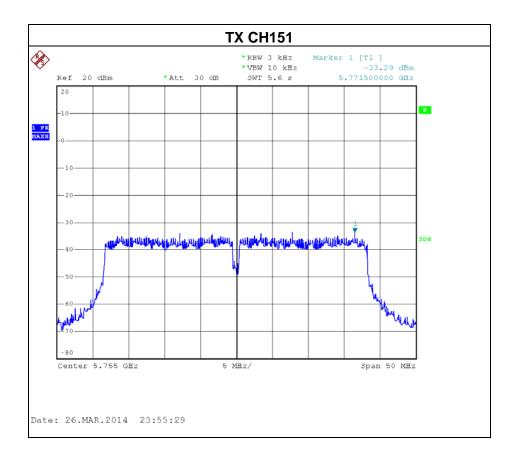
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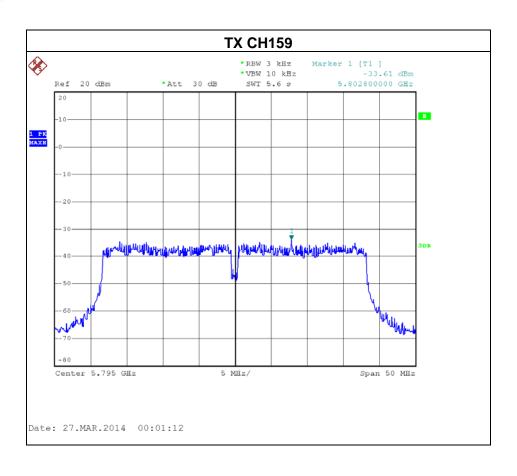
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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	23 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 40 Mode /CH151, CH159 / ANT 7		



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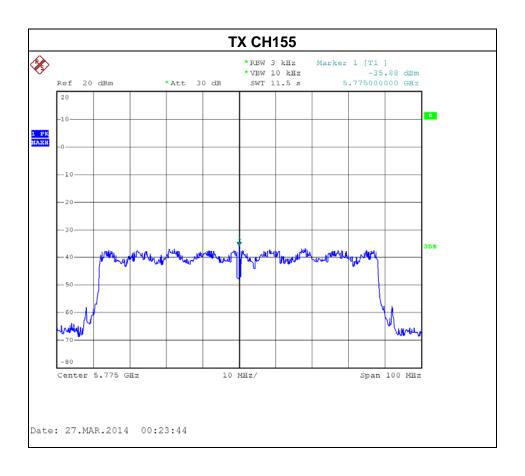
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I⊨111'	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 40 Mode /CH151, CH159		

ANT 6 + ANT 7			
Test Channel	Frequency	Power Density	LIMIT
103t Orianner	(MHz)	(dBm)	(dBm)
CH151	5755 MHz	-30.45	8
CH159	5795 MHz	-30.68	8

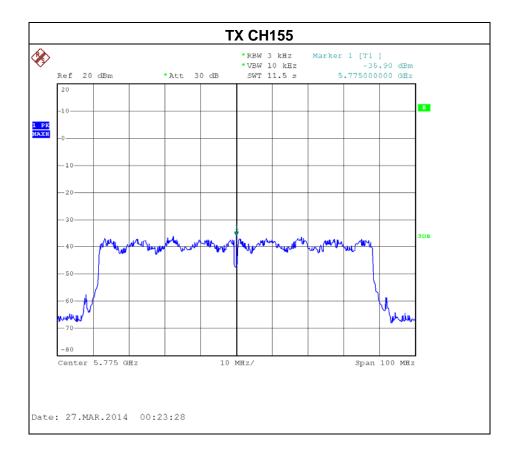
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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 80 Mode /CH155 / ANT 6		



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I⊢[]].	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 80 Mode /CH155 / ANT 7		



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H-111.	AC1200 Wireless Dual Band Gigabit Router	Model Name :	WF2780
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX AC 80 Mode /CH155		

ANT 6 + ANT 7					
Test Channel	Frequency	Power Density	LIMIT		
	(MHz)	(dBm)	(dBm)		
CH155	5775 MHz	-32.88	8		

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### 9. EUT TEST PHOTO

#### **Conducted Measurement Photos**

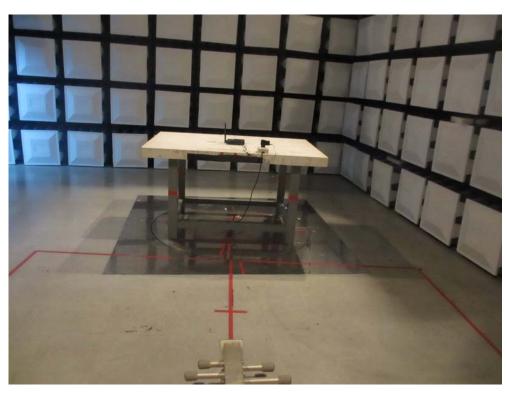




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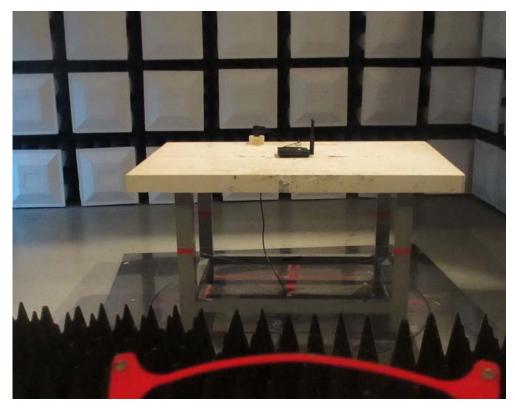
## Radiated Measurement Photos 30M~1000MHz





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### Radiated Measurement Photos Above 1000MHz





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