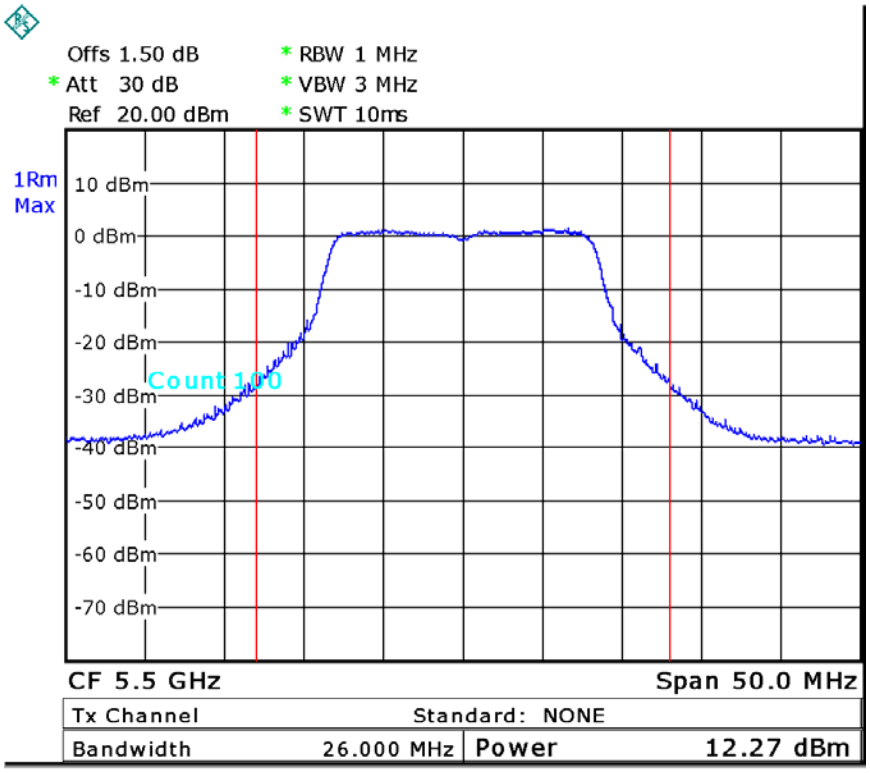
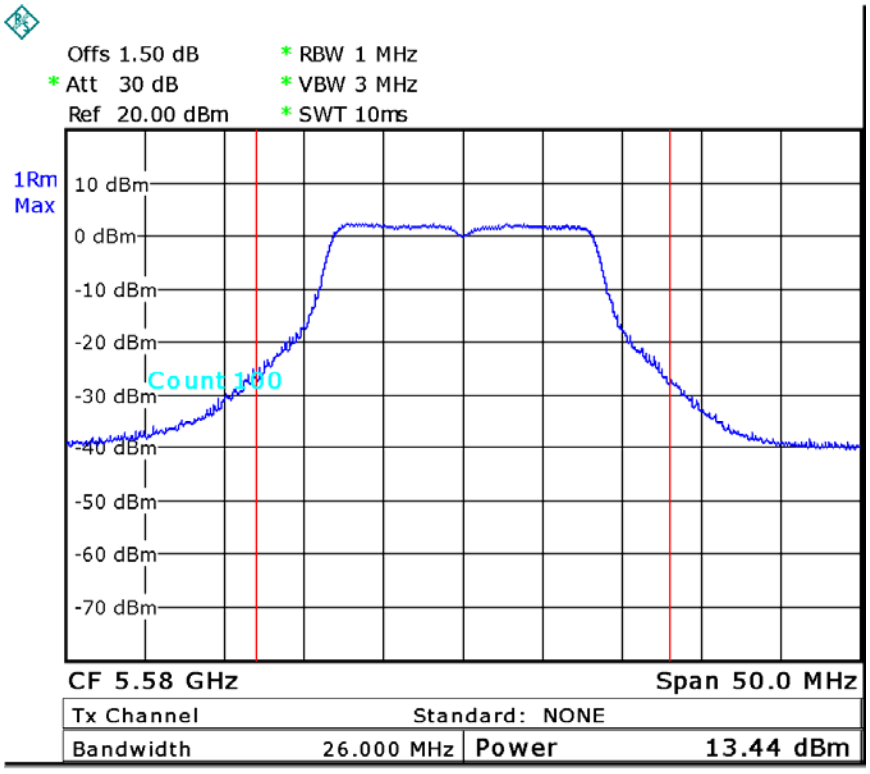
CH100-ANT 1



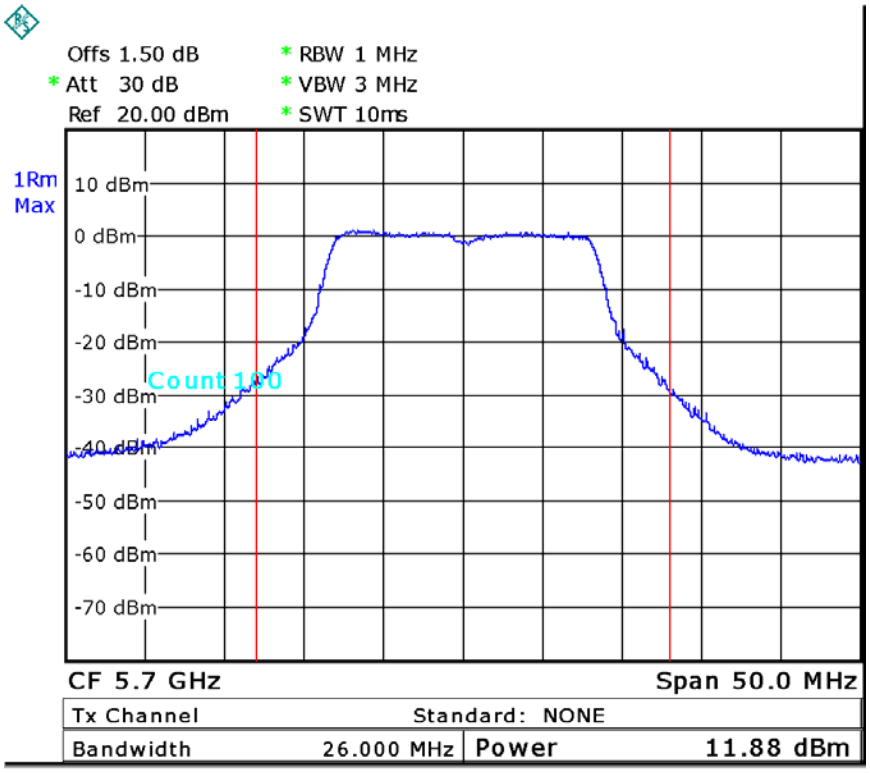
Date: 10.OCT.2012 19:40:59

CH116-ANT 1



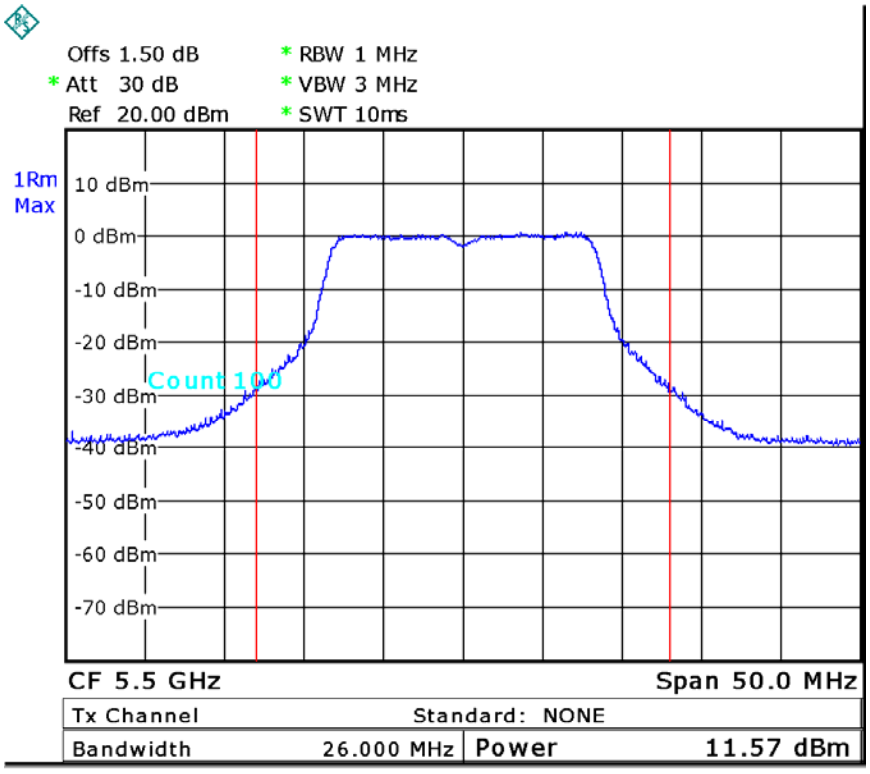
Date: 10.OCT.2012 19:36:27

CH140-ANT 1



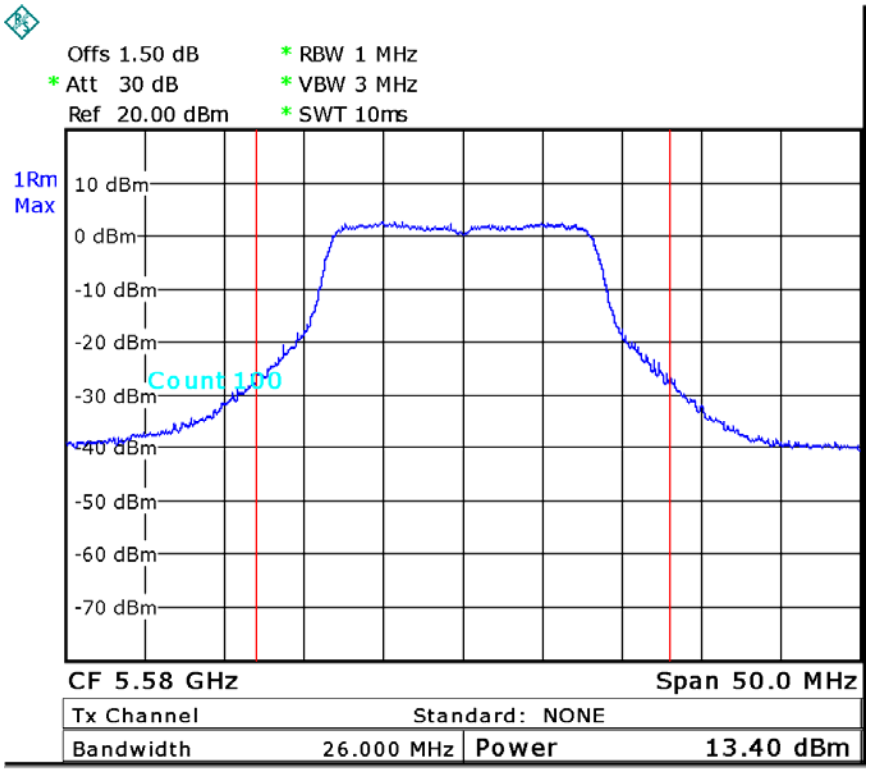
Date: 10.OCT.2012 19:29:36

CH100-ANT 2



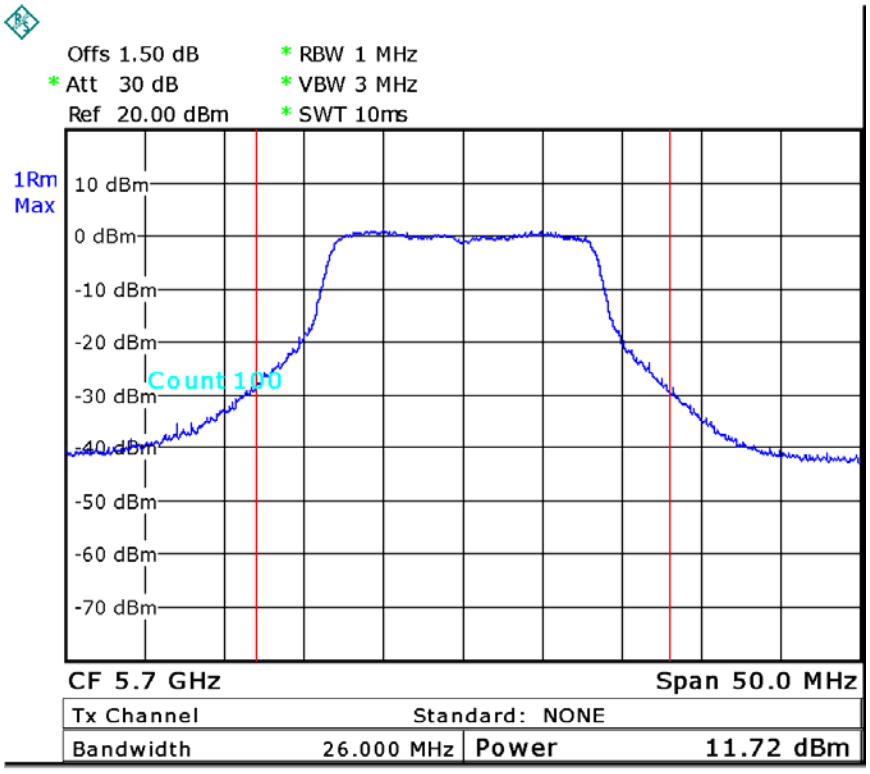
Date: 10.OCT.2012 19:42:23

CH116-ANT 2



Date: 10.OCT.2012 19:35:57

CH140-ANT 2



Date: 10.OCT.2012 19:30:56

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 2TX		

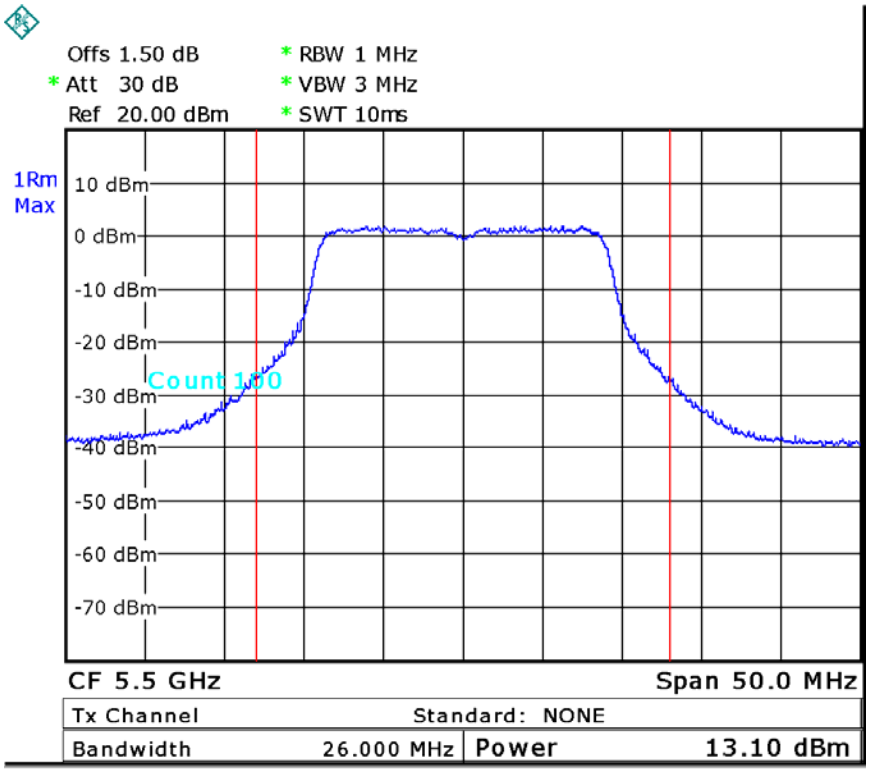
Peak Output Power

ANT 1				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH100	5500	13.10	24	0.251
CH116	5580	13.84	24	0.251
CH140	5700	12.54	24	0.251

ANT 2				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH100	5500	12.48	24	0.251
CH116	5580	12.98	24	0.251
CH140	5700	12.97	24	0.251

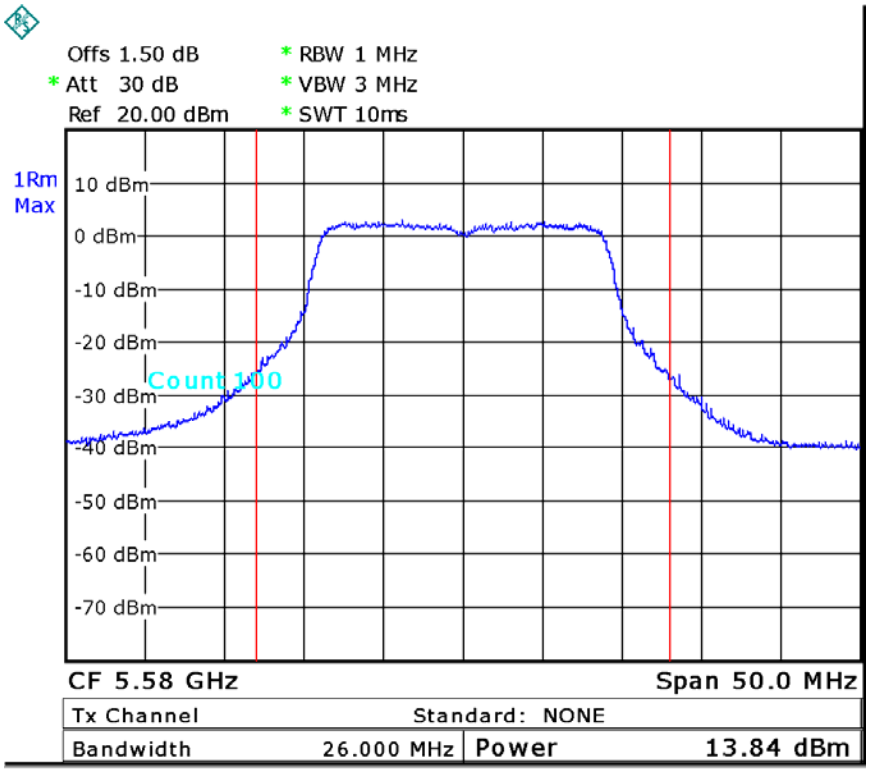
Total				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH100	5500	15.81	24	0.251
CH116	5580	16.44	24	0.251
CH140	5700	15.77	24	0.251

CH100-ANT 1



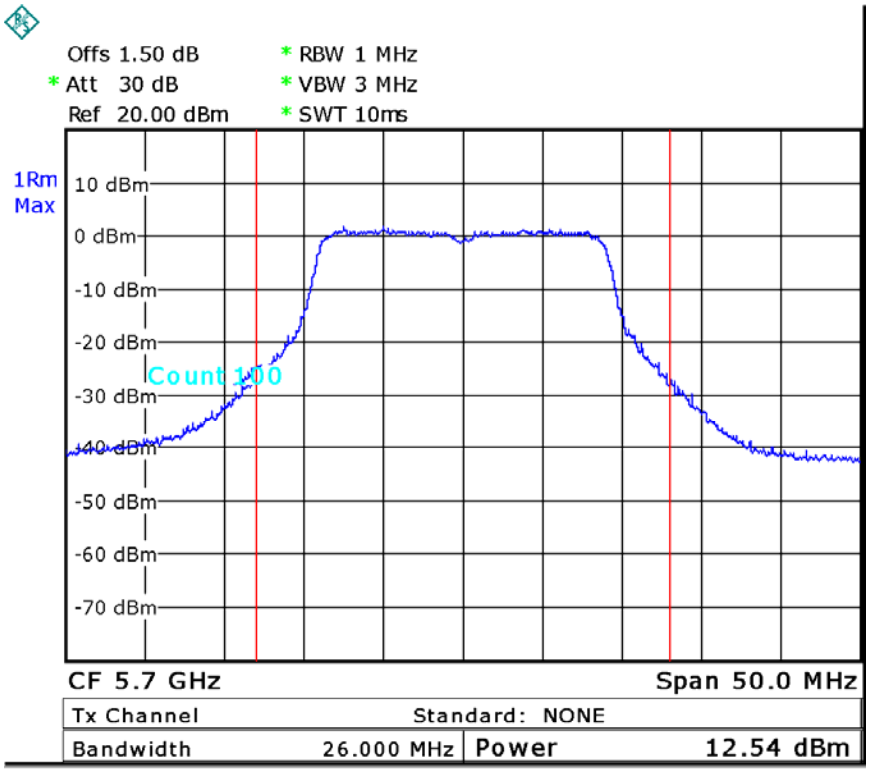
Date: 19.SEP.2012 18:01:40

CH116-ANT 1



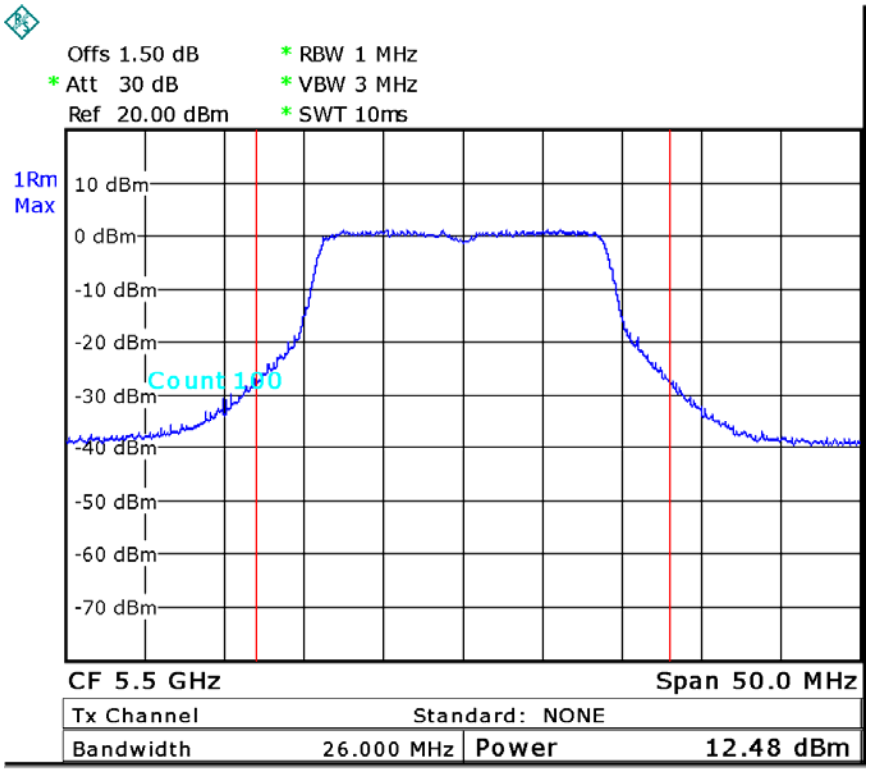
Date: 19.SEP.2012 17:59:10

CH140-ANT 1



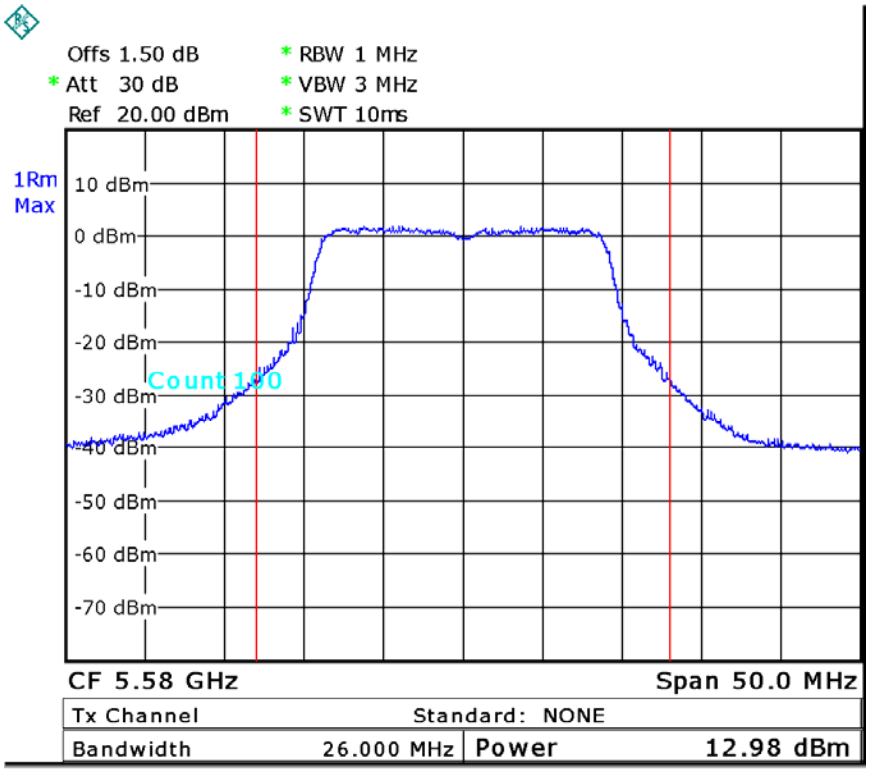
Date: 19.SEP.2012 17:57:34

CH100-ANT 2



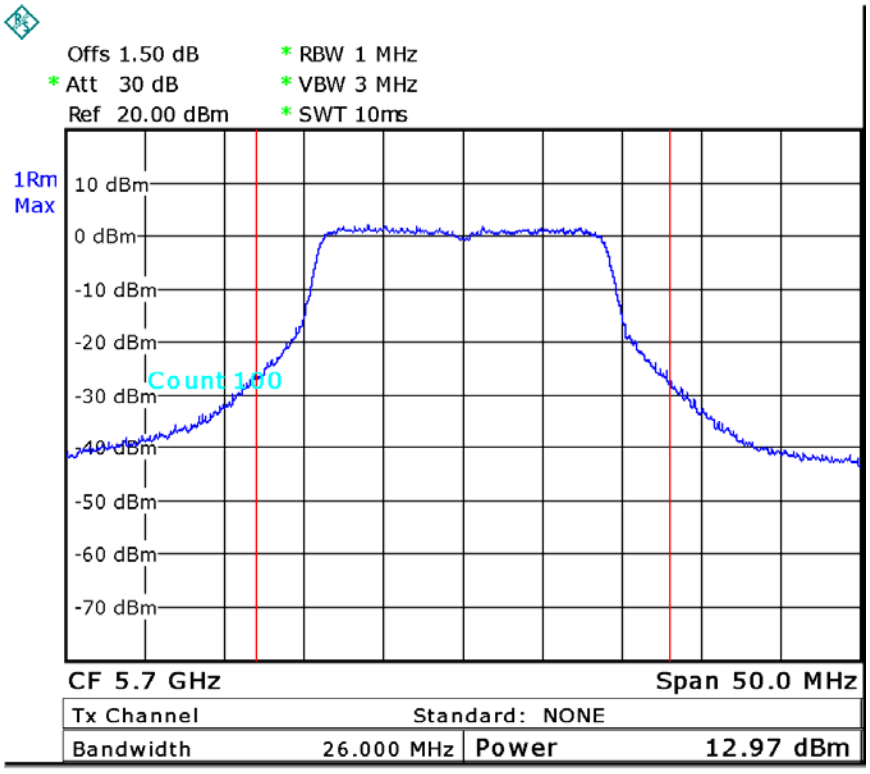
Date: 19.SEP.2012 18:21:30

CH116-ANT 2



Date: 19.SEP.2012 18:22:17

CH140-ANT 2



Date: 19.SEP.2012 18:23:13

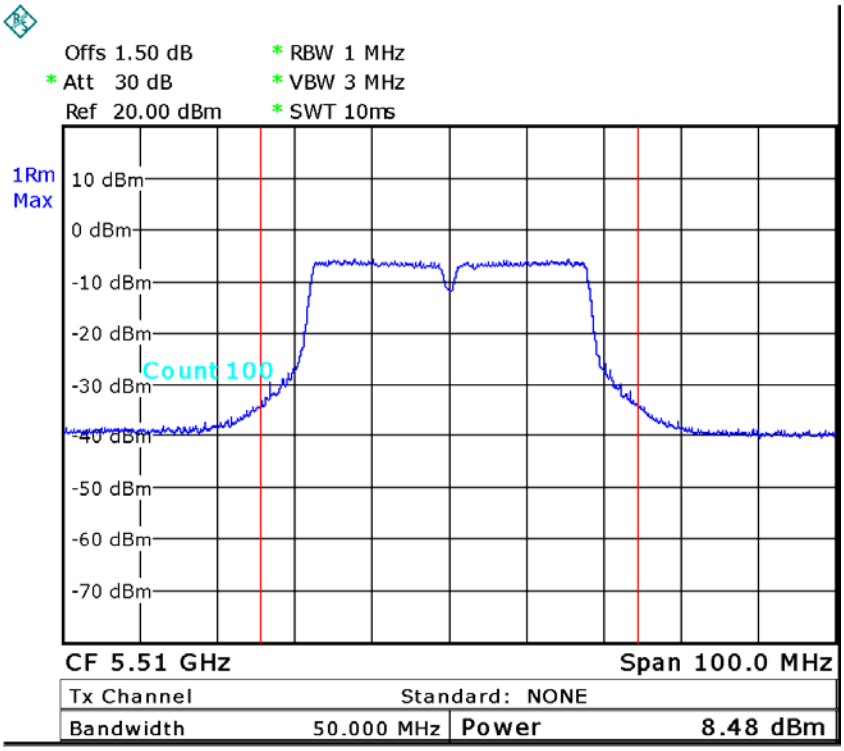
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 2TX		

ANT 1				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH102	5510	8.48	24	0.251
CH110	5550	12.83	24	0.251
CH134	5670	11.91	24	0.251

ANT 2				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH102	5510	7.66	24	0.251
CH110	5550	11.82	24	0.251
CH134	5670	12.08	24	0.251

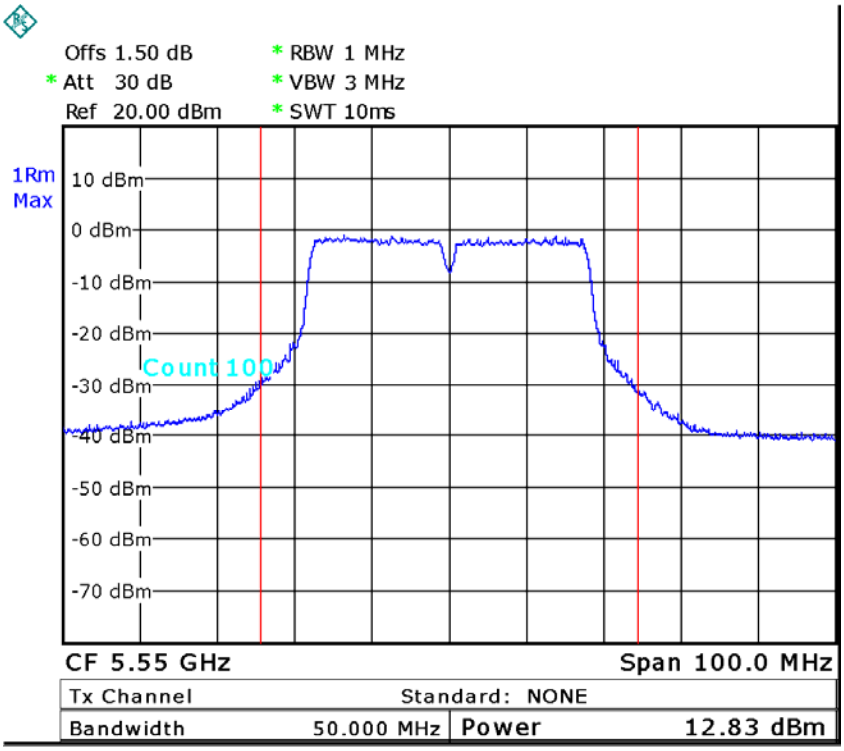
Total				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH102	5510	11.10	24	0.251
CH110	5550	15.36	24	0.251
CH134	5670	15.01	24	0.251

CH102-ANT 1



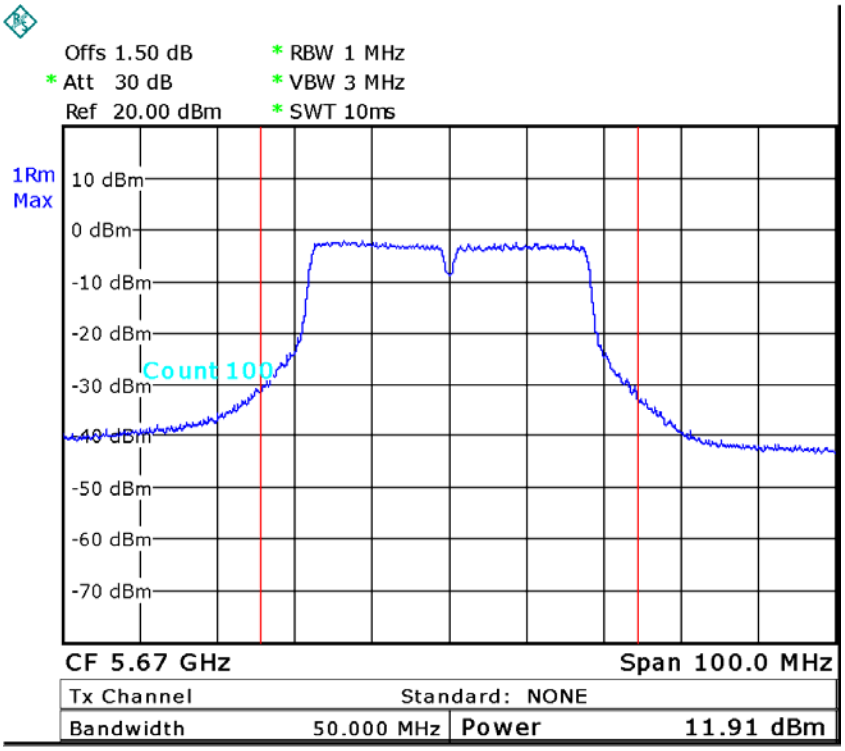
Date: 21.SEP.2012 15:17:00

CH110-ANT 1



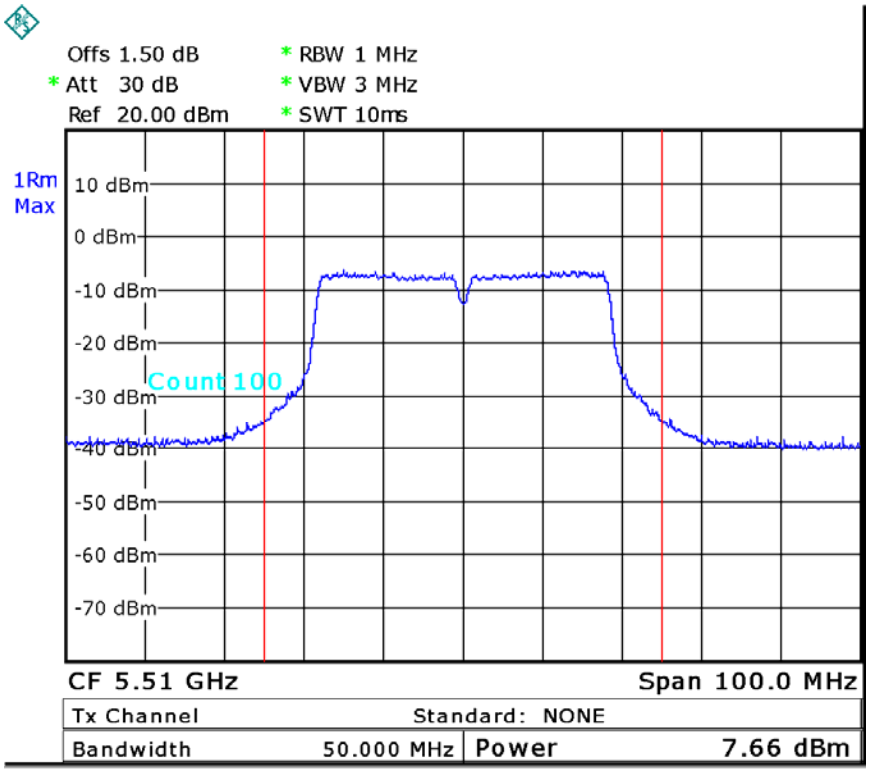
Date: 21.SEP.2012 15:15:31

CH134-ANT 1



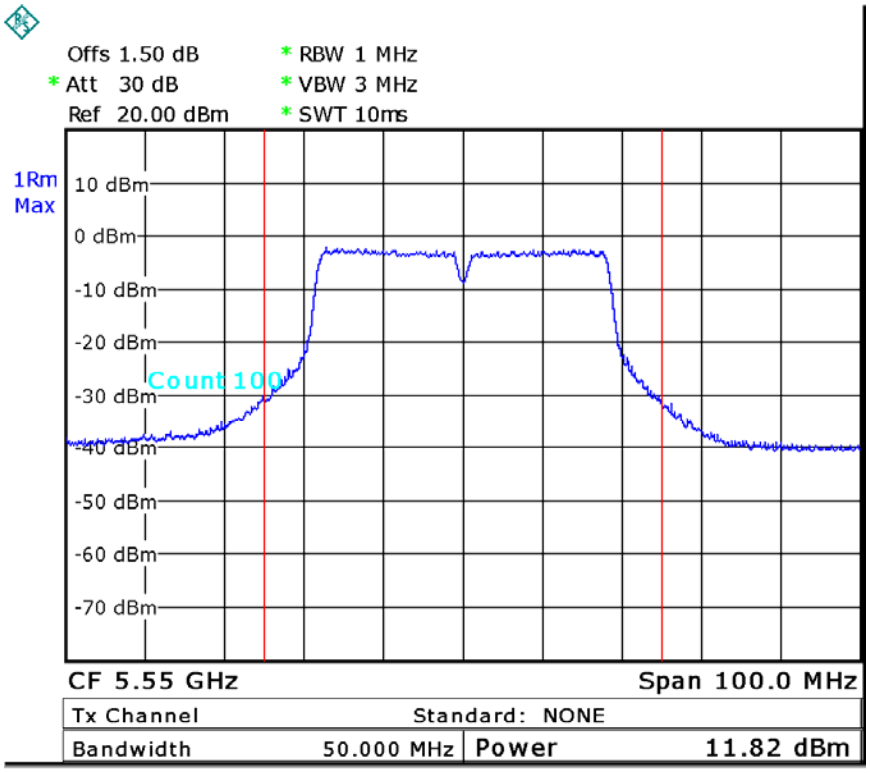
Date: 21.SEP.2012 15:13:39

CH102-ANT 2



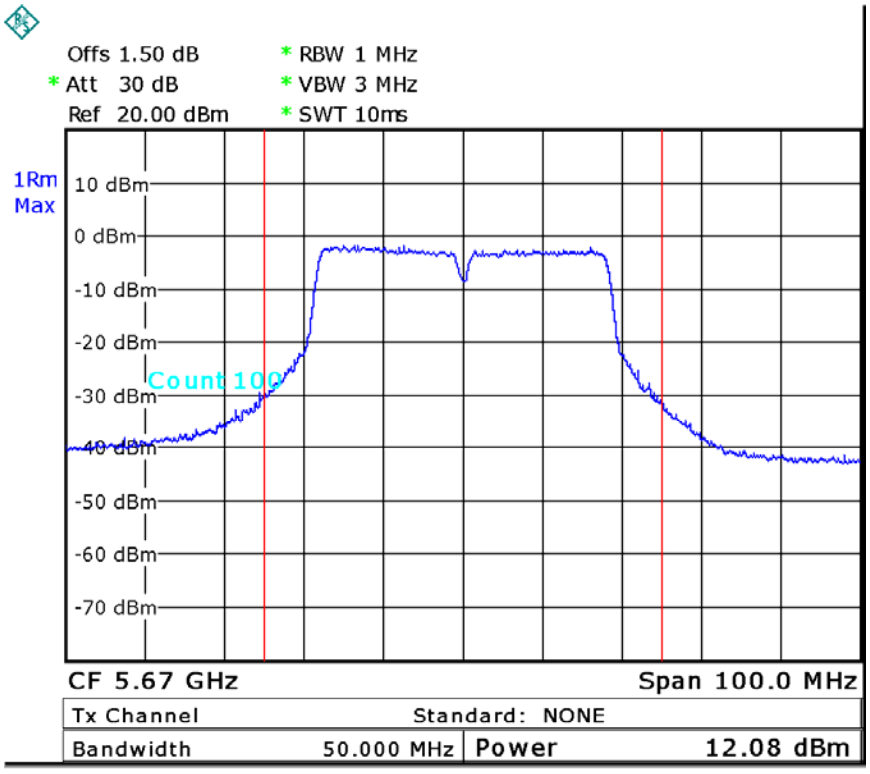
Date: 21.SEP.2012 15:54:45

CH110-ANT 2



Date: 21.SEP.2012 16:04:06

CH134-ANT 2



Date: 21.SEP.2012 15:55:42

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27 dBm/1MHz	5150 - 5250	PASS

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2011	Nov.26.2012

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 Parameter	Setting
Attenuation	Auto
RB	1000 kHz
VB	3000 kHz
Trace	Max Hold
Sweep Time	Auto

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

7.1.5 EUT OPERATION CONDITIONS

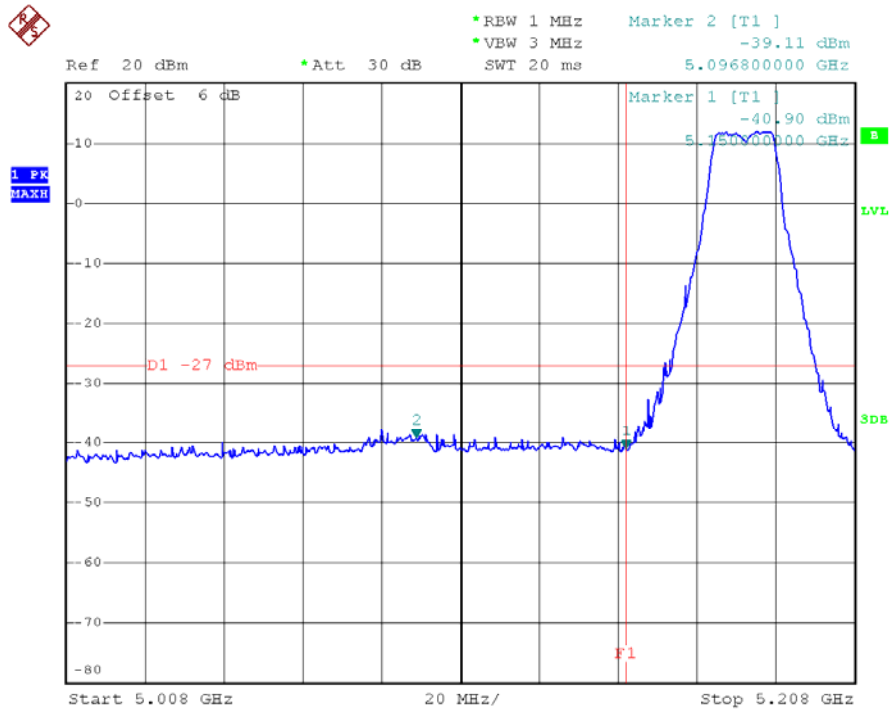
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/ CH36, CH40, CH48 – ANT 2 For 1TX		

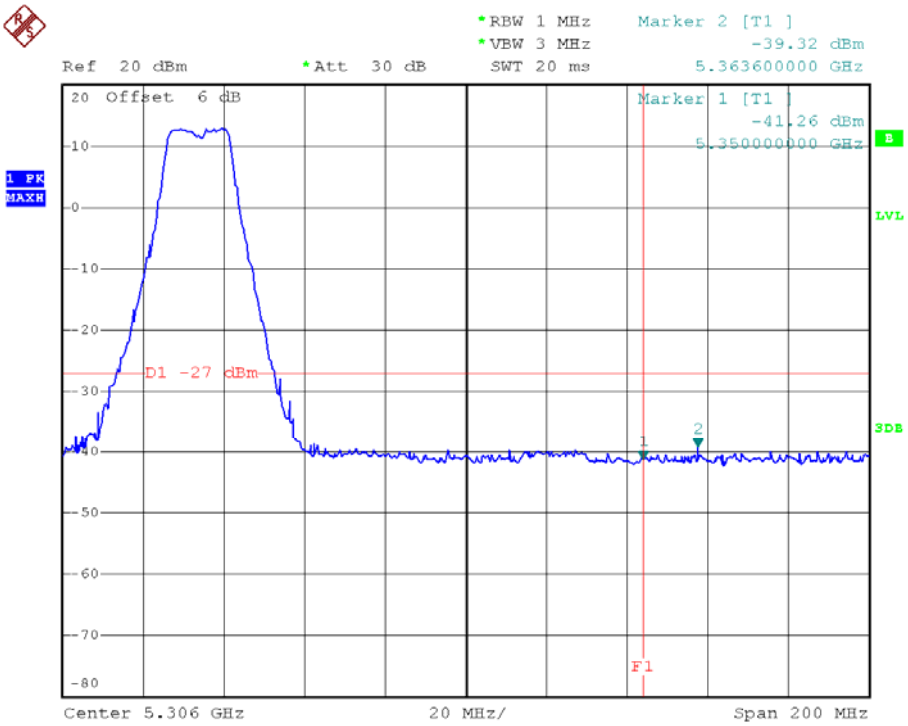
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5096.80	-39.11	5363.60	-39.32
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 21:03:05

TX mode CH48

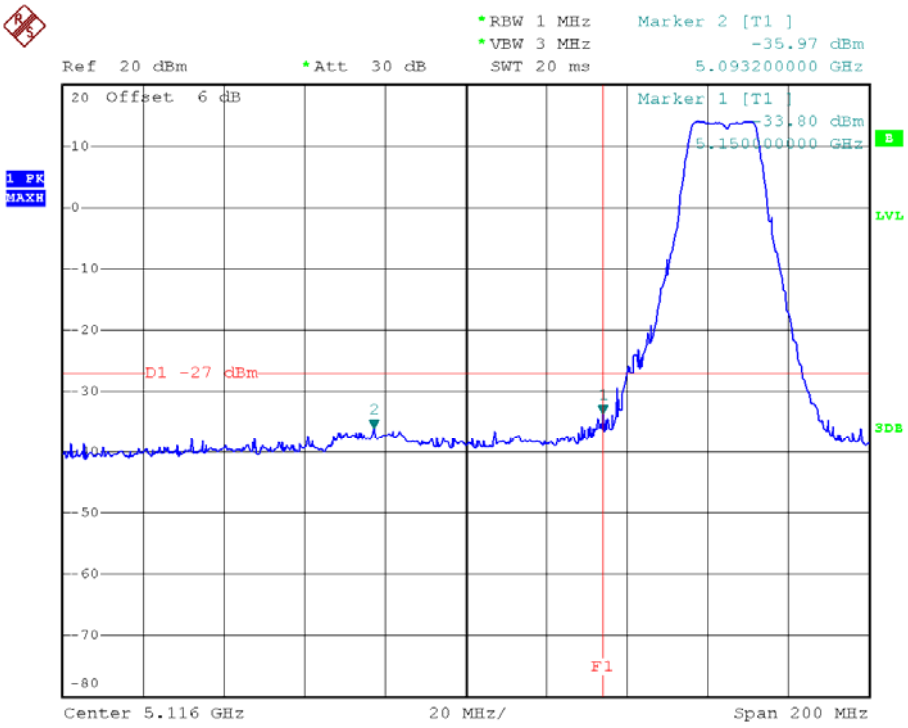


Date: 11.OCT.2012 21:19:14

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/ H36, CH40 , CH48 – ANT 2 For 1TX		

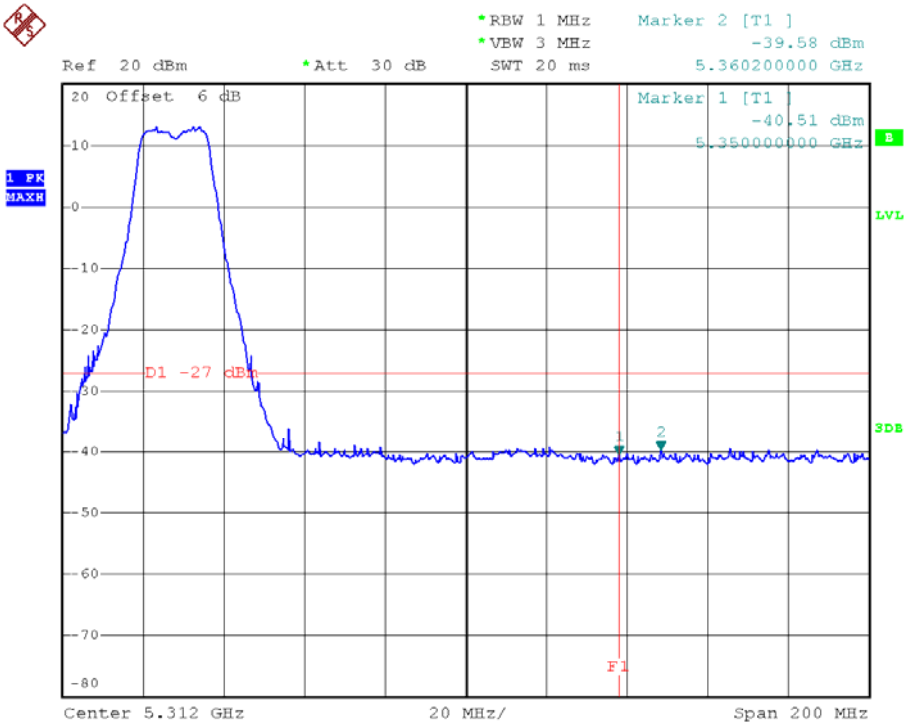
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-33.80	5360.20	-39.58
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 21:48:45

TX mode CH48

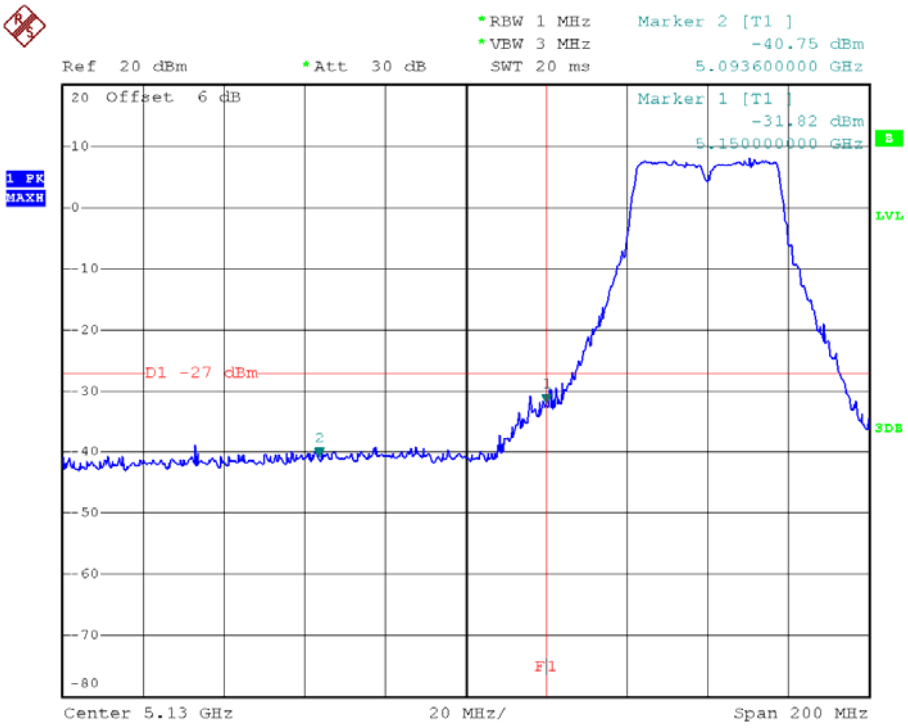


Date: 11.OCT.2012 21:46:59

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/ CH38, CH46 – ANT 2 For 1TX		

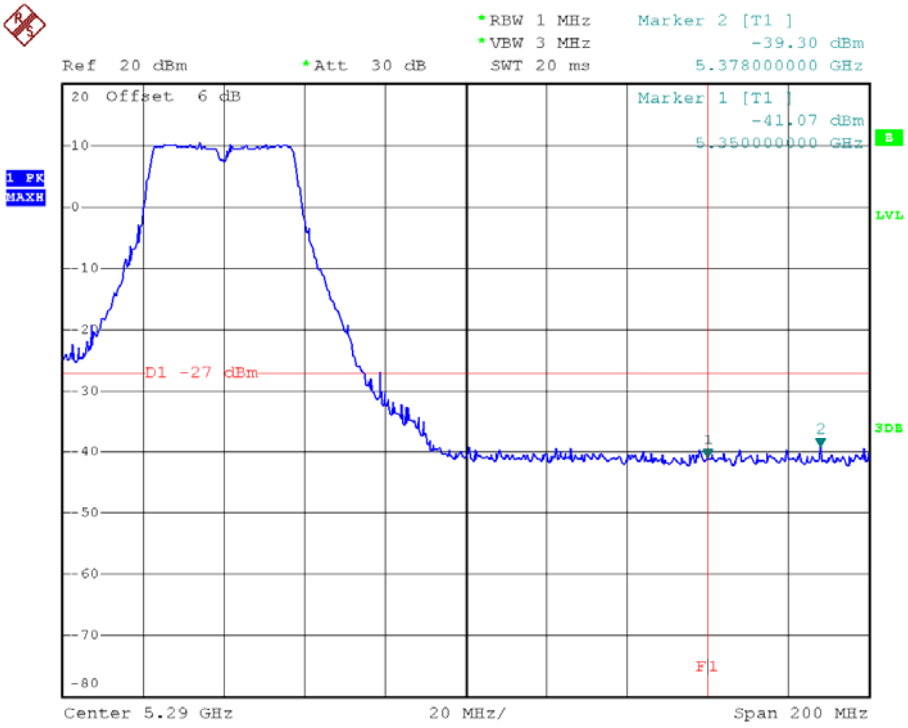
Channel of Worst Data: CH38			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-31.82	5378.00	-39.30
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH38



Date: 11.OCT.2012 21:52:27

TX mode CH46

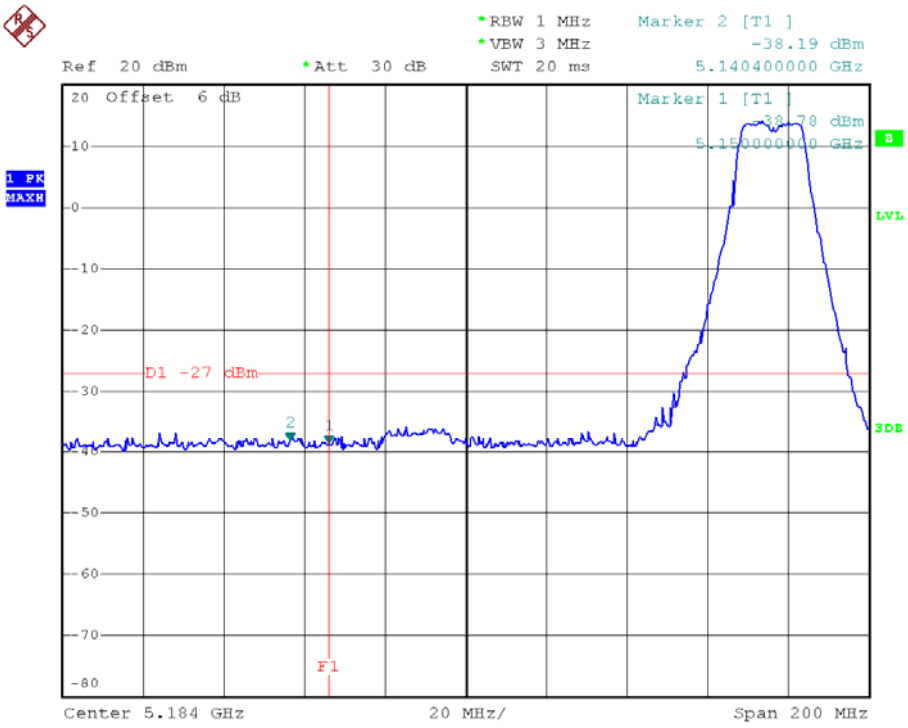


Date: 11.OCT.2012 21:53:46

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 2 For 1TX		

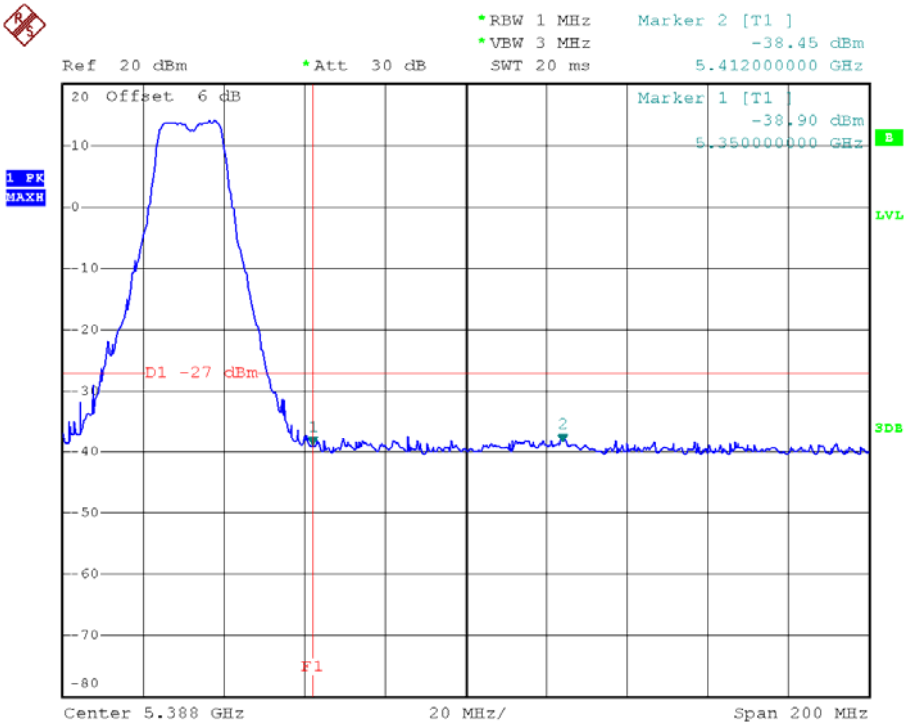
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5140.40	-38.19	5412.00	-38.45
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 21:23:17

TX mode CH64

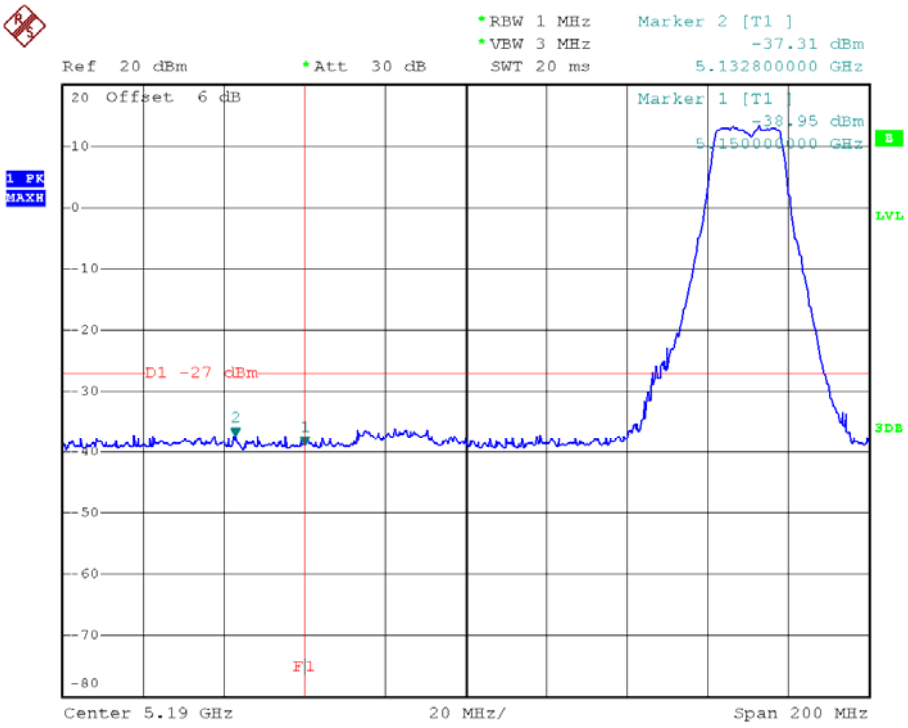


Date: 11.OCT.2012 21:28:29

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 2 For 1TX		

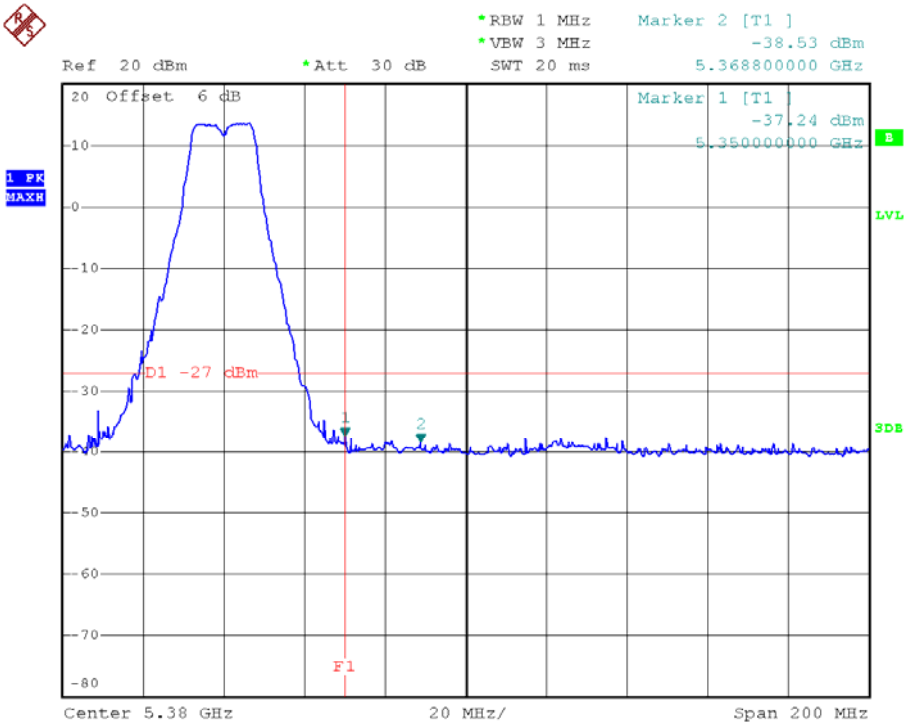
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5132.80	-37.31	5350.00	-37.24
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 21:43:55

TX mode CH64

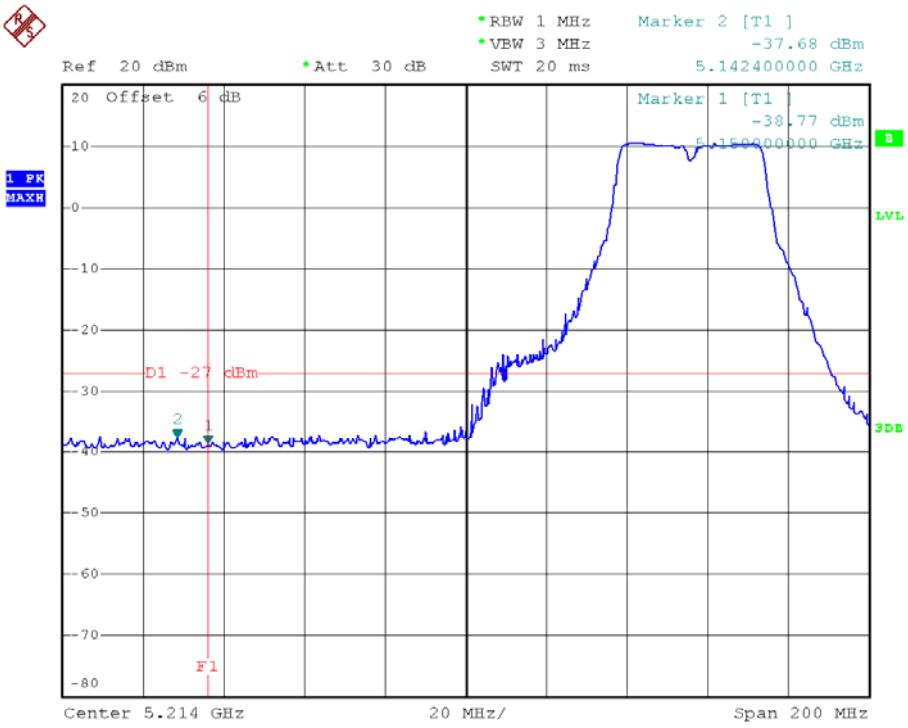


Date: 11.OCT.2012 21:40:31

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/ CH54, CH62 – ANT 2 For 1TX		

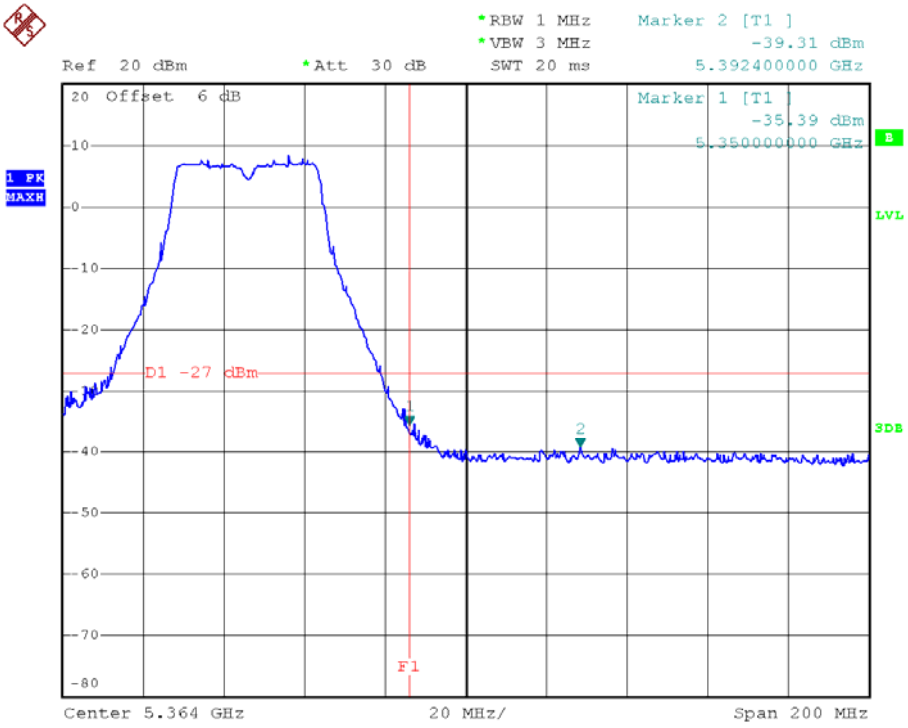
Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5142.40	-37.68	5350.00	-35.39
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH54



Date: 11.OCT.2012 21:56:17

TX mode CH62

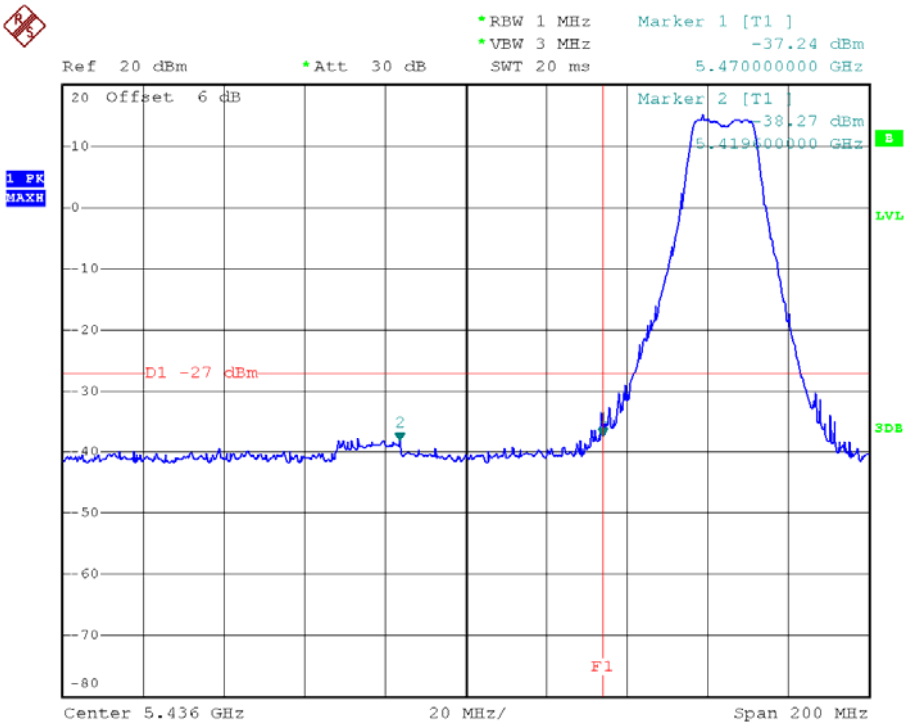


Date: 11.OCT.2012 21:58:59

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 2 For 1TX		

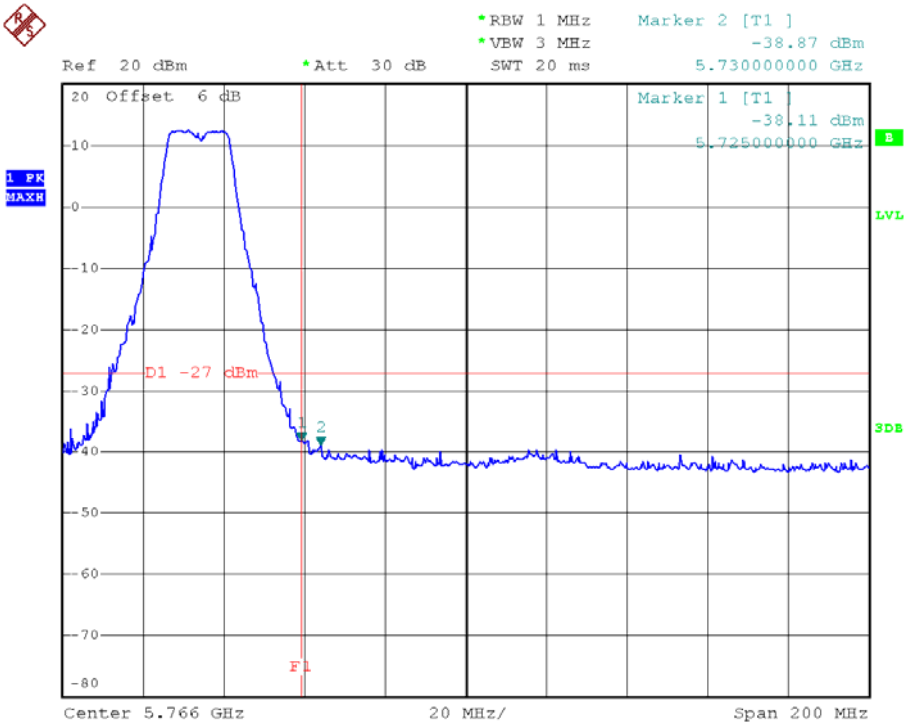
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-37.24	5725.00	-38.11
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 21:30:23

TX mode CH140

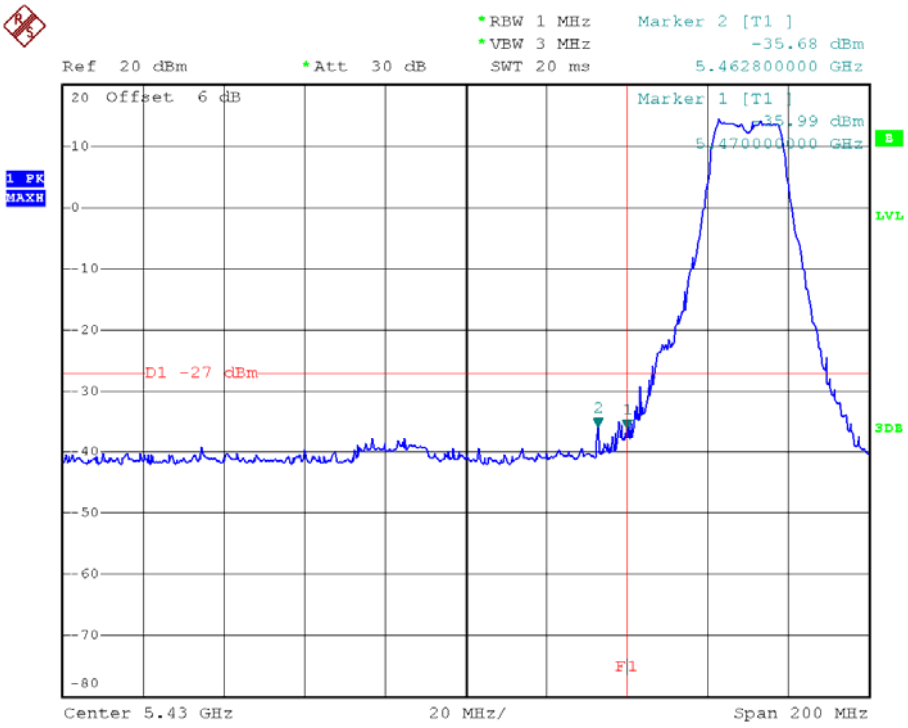


Date: 11.OCT.2012 21:32:54

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 2 For 1TX		

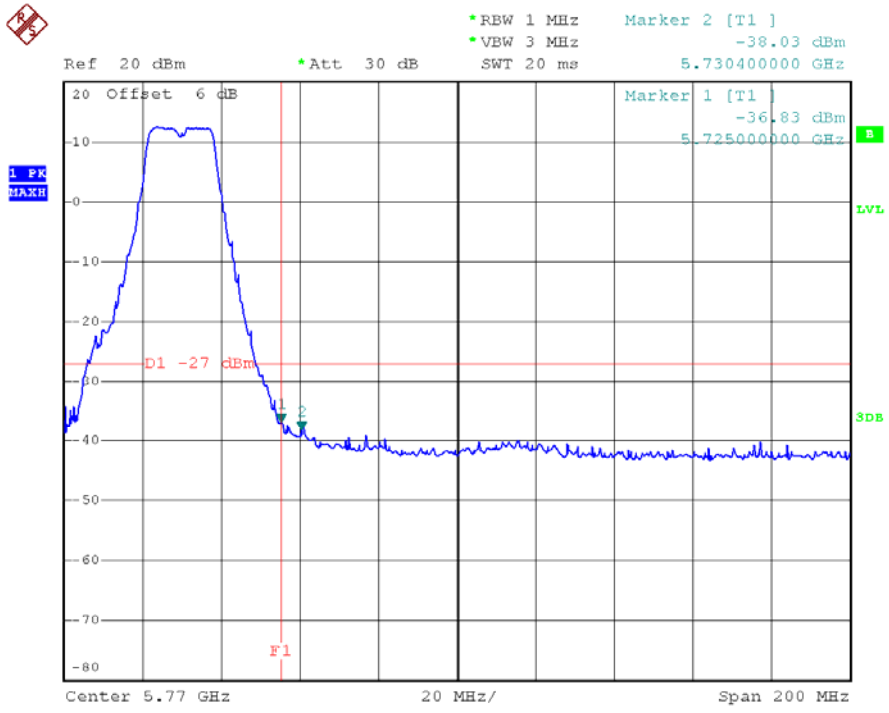
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5462.80	-35.68	5725.00	-36.83
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 21:38:21

TX mode CH140

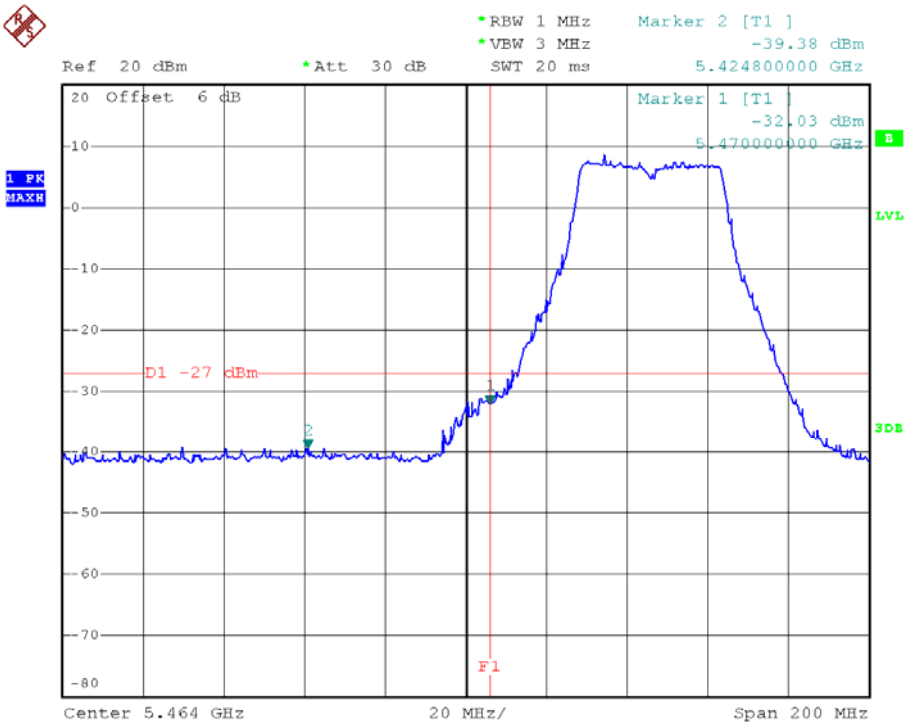


Date: 11.OCT.2012 21:36:08

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 2 For 1TX		

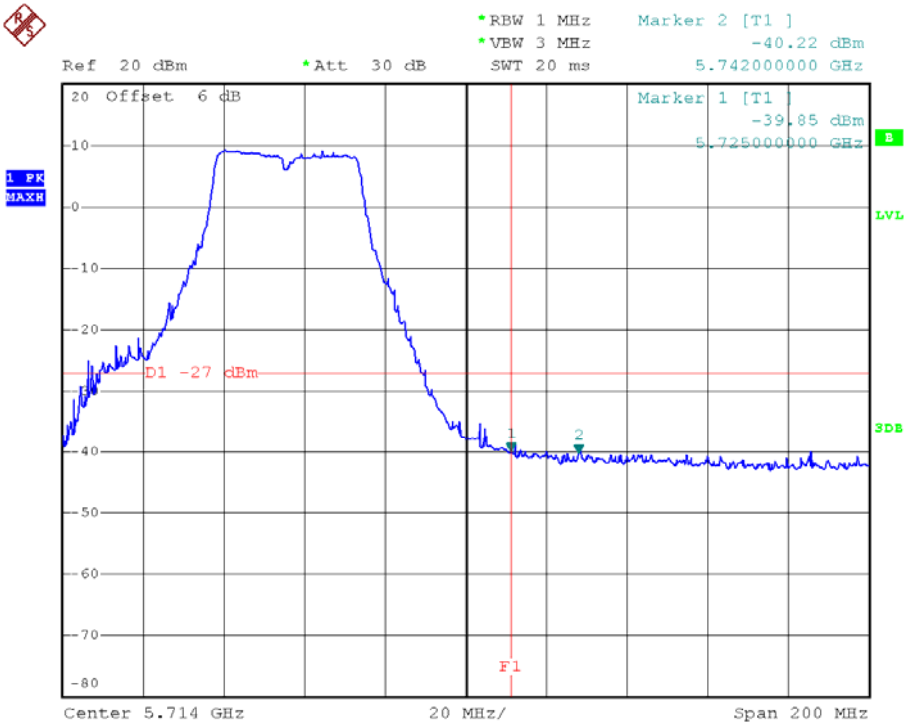
Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-32.03	5725.00	-39.85
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH102



Date: 11.OCT.2012 22:06:08

TX mode CH134

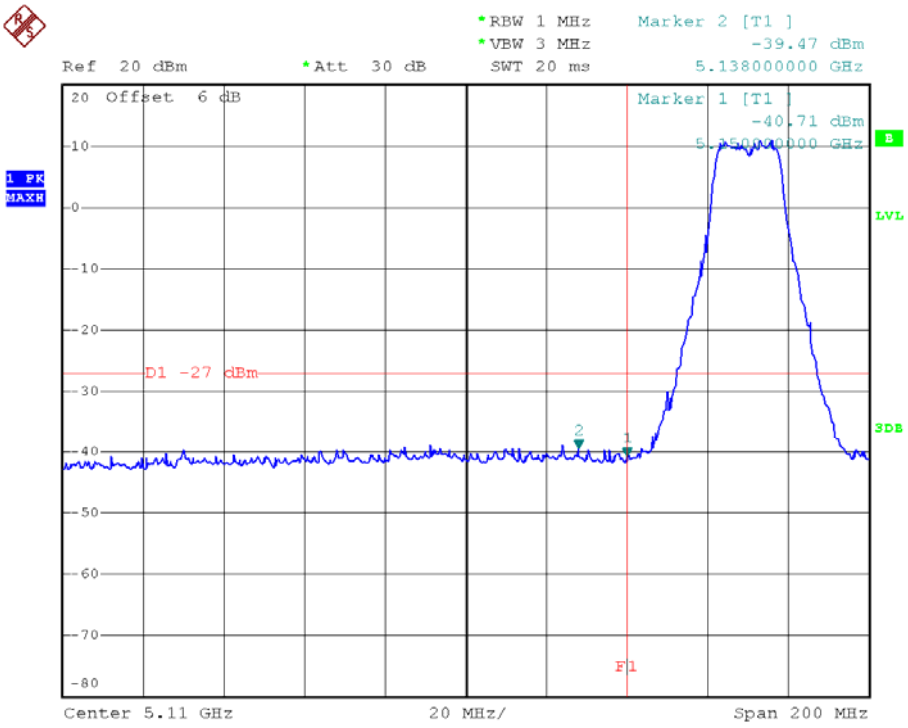


Date: 11.OCT.2012 22:09:01

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/ CH36, CH40, CH48 – ANT 1 For 2TX		

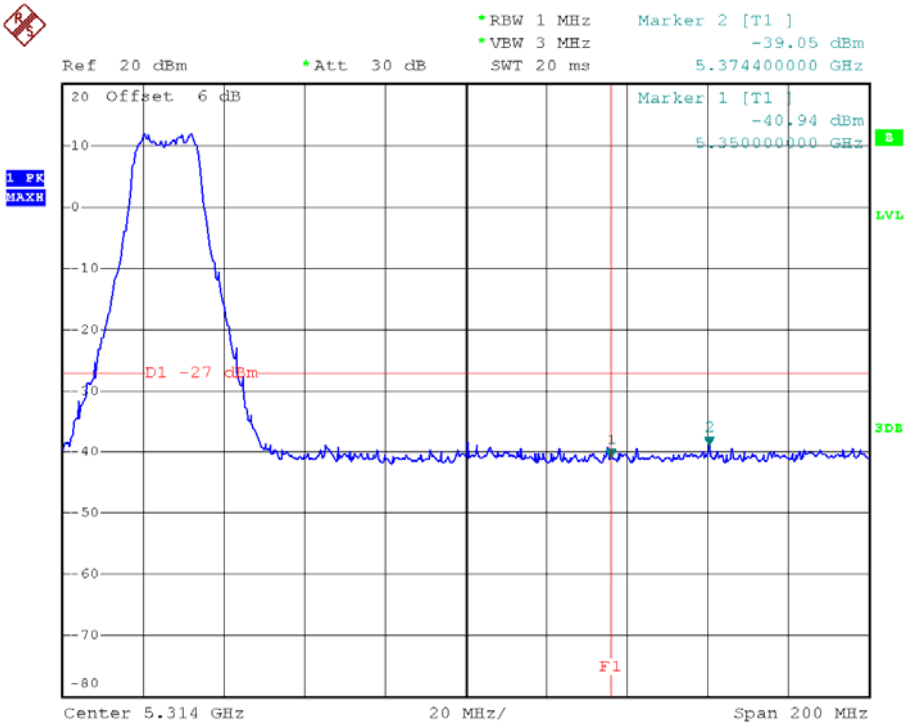
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5138.00	-39.47	5374.40	-39.05
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 23:26:50

TX mode CH48

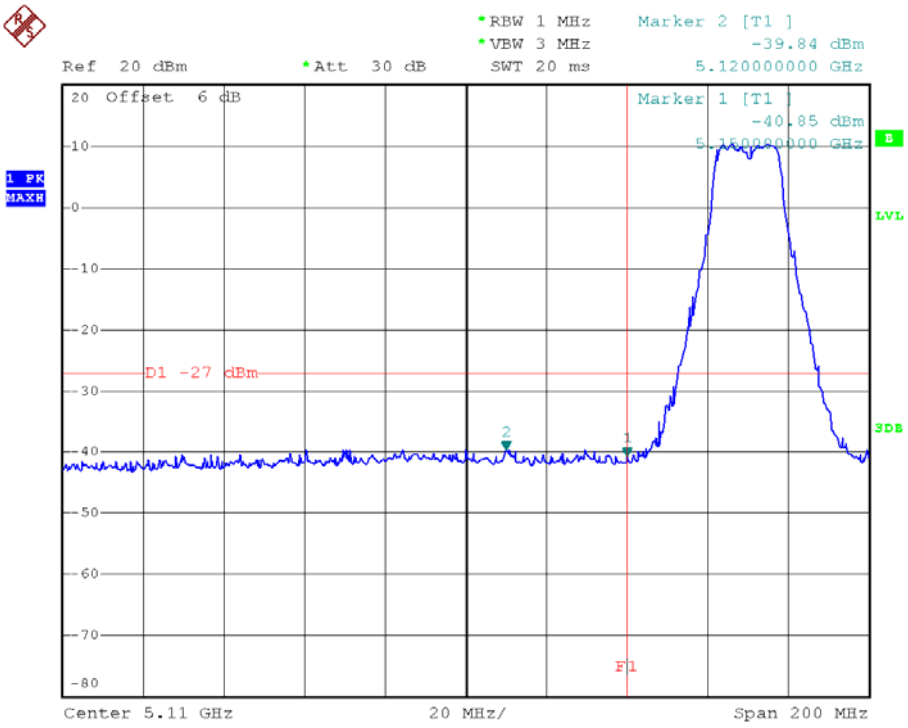


Date: 11.OCT.2012 23:23:23

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/ CH36, CH40, CH48 – ANT 2 For 2TX		

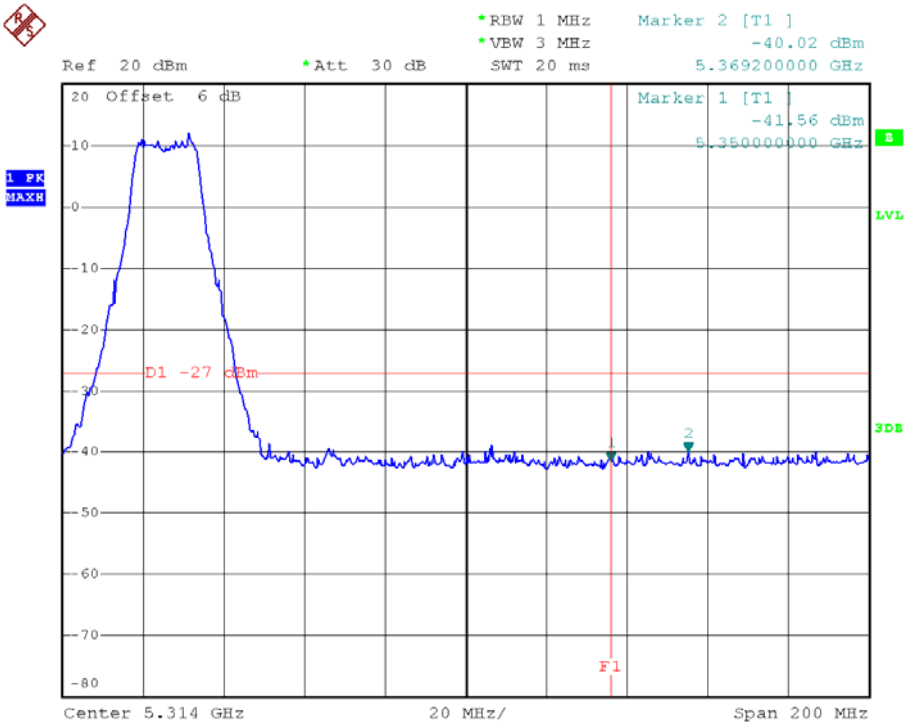
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5120.00	-39.84	5369.20	-40.02
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 23:27:00

TX mode CH48

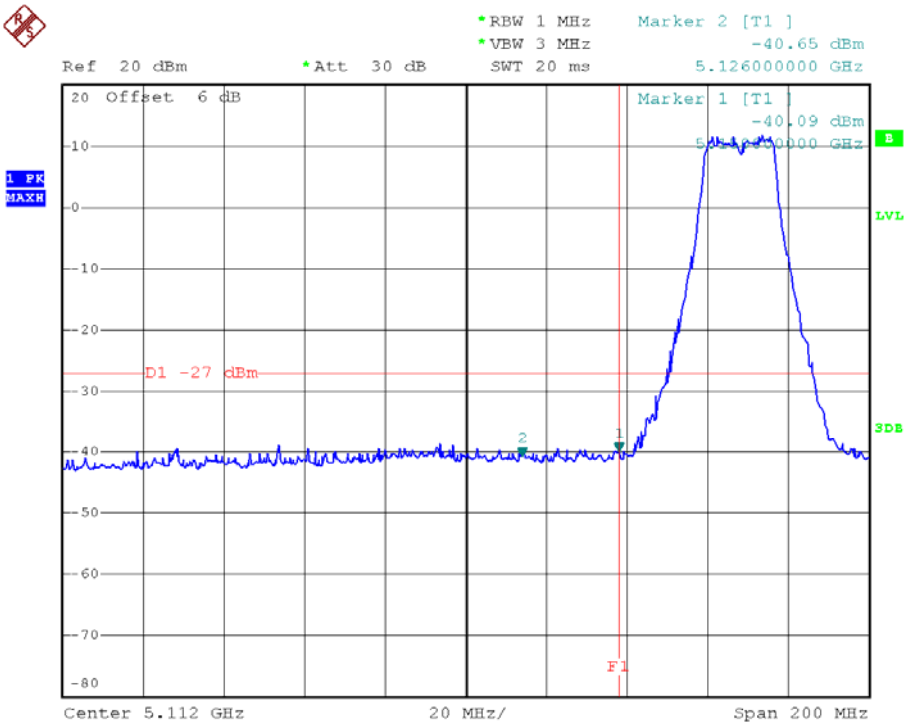


Date: 11.OCT.2012 23:23:35

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/ H36, CH40 , CH48 – ANT 1 For 2TX		

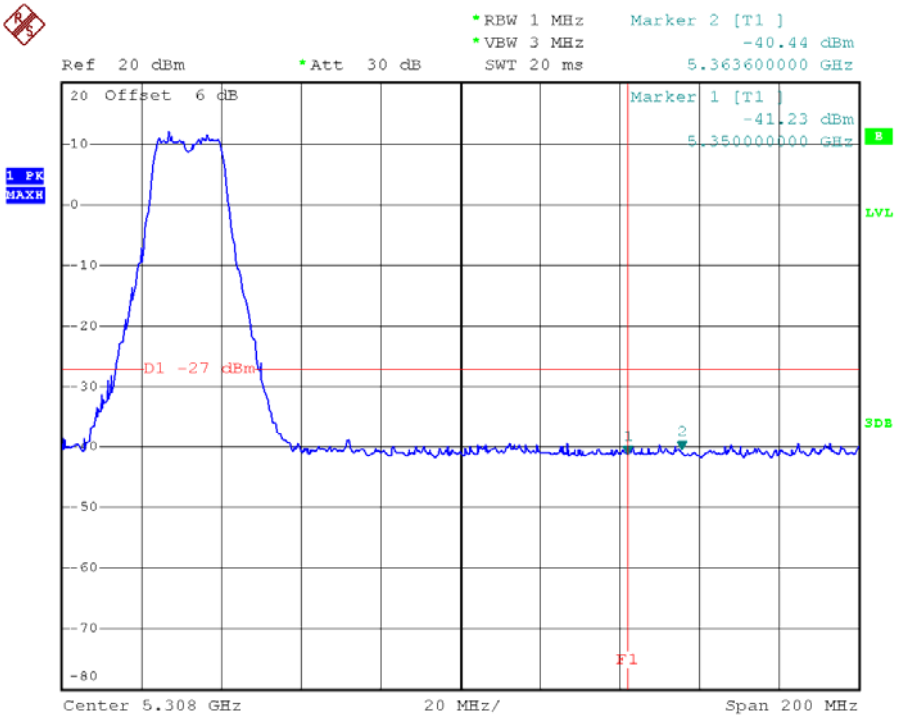
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-40.09	5363.60	-40.44
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 22:51:03

TX mode CH48

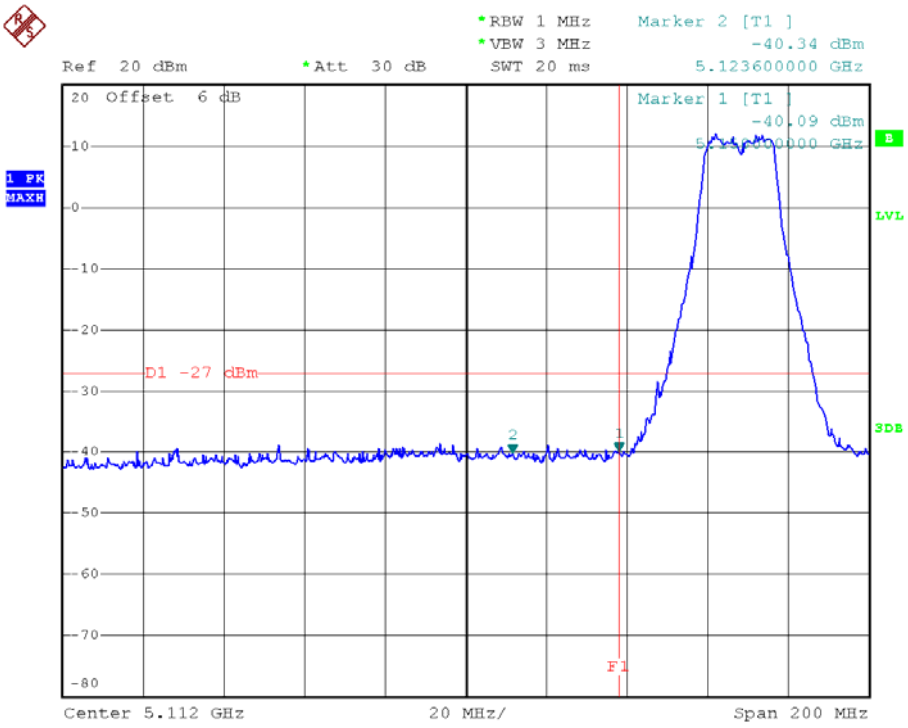


Date: 11.OCT.2012 22:56:22

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/ H36, CH40 , CH48 – ANT 2 For 2TX		

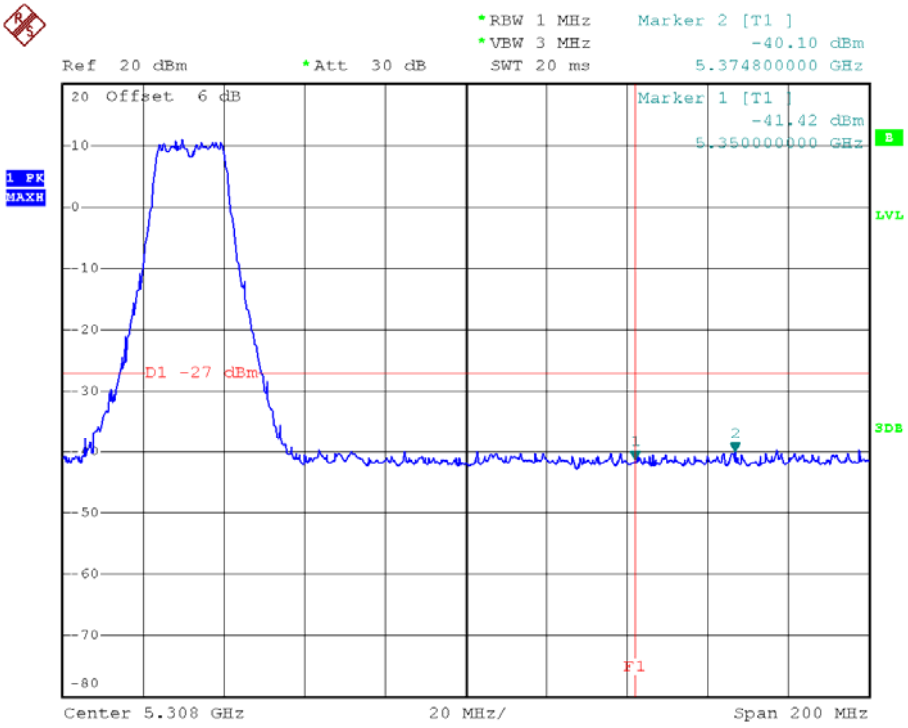
Channel of Worst Data: CH36			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-40.09	5374.80	-40.10
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH36



Date: 11.OCT.2012 22:51:09

TX mode CH48

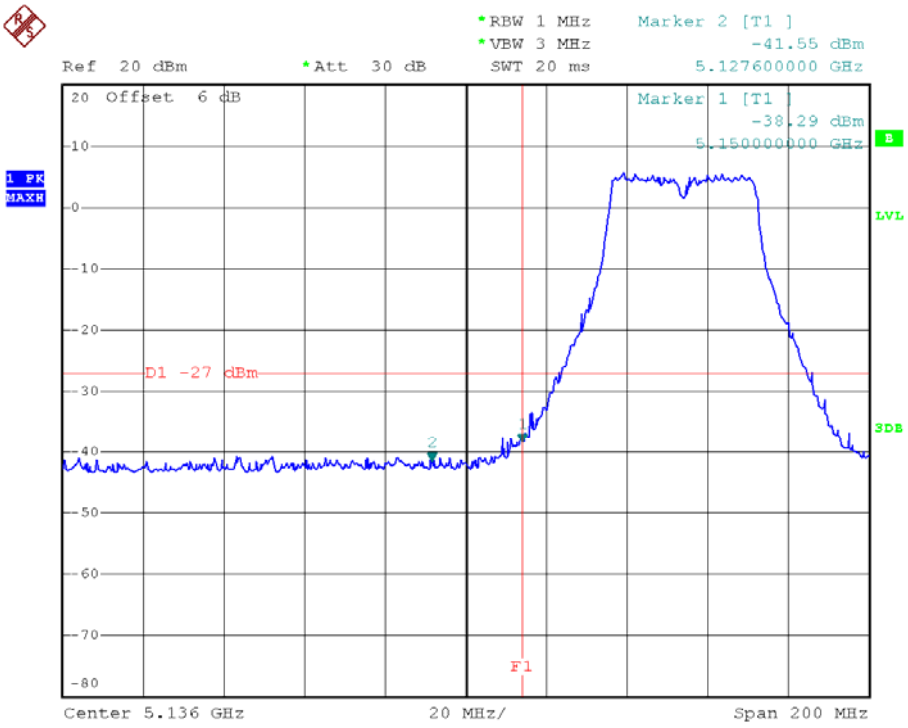


Date: 11.OCT.2012 22:56:34

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/ CH38, CH46 – ANT 1 For 2TX		

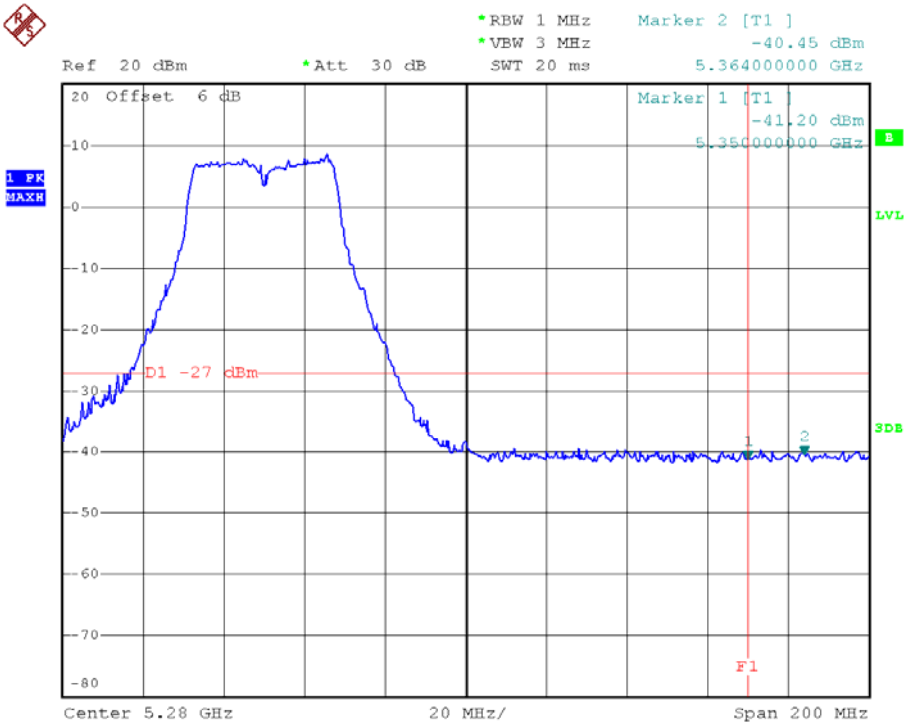
Channel of Worst Data: CH38			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-38.29	5364.00	-40.45
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH38



Date: 11.OCT.2012 22:32:36

TX mode CH46

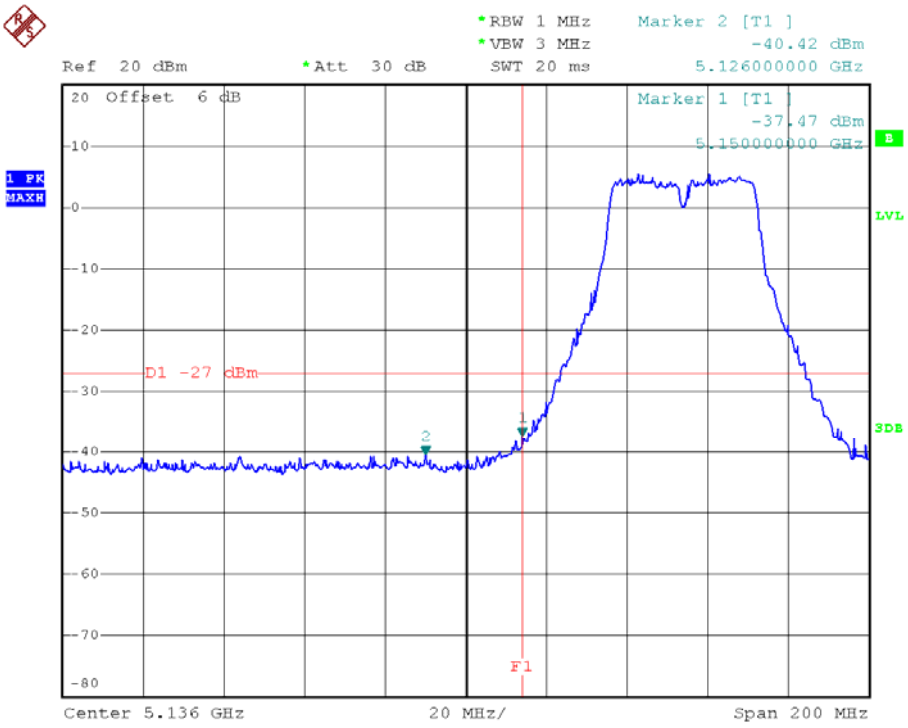


Date: 11.OCT.2012 22:28:30

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/ CH38, CH46 – ANT 2 For 2TX		

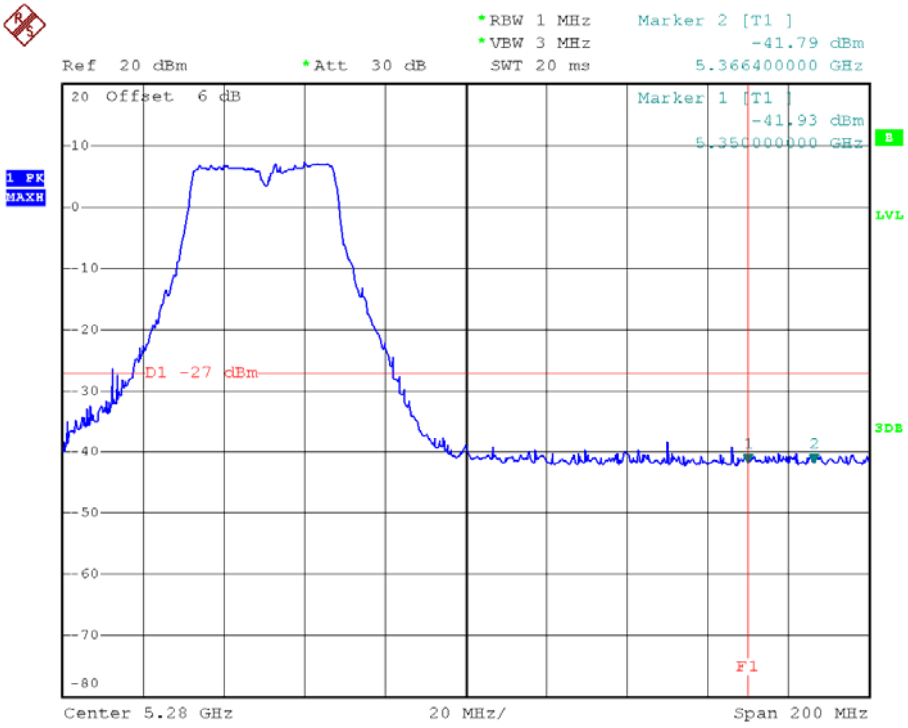
Channel of Worst Data: CH38			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-37.47	5366.40	-41.79
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH38



Date: 11.OCT.2012 22:38:32

TX mode CH46

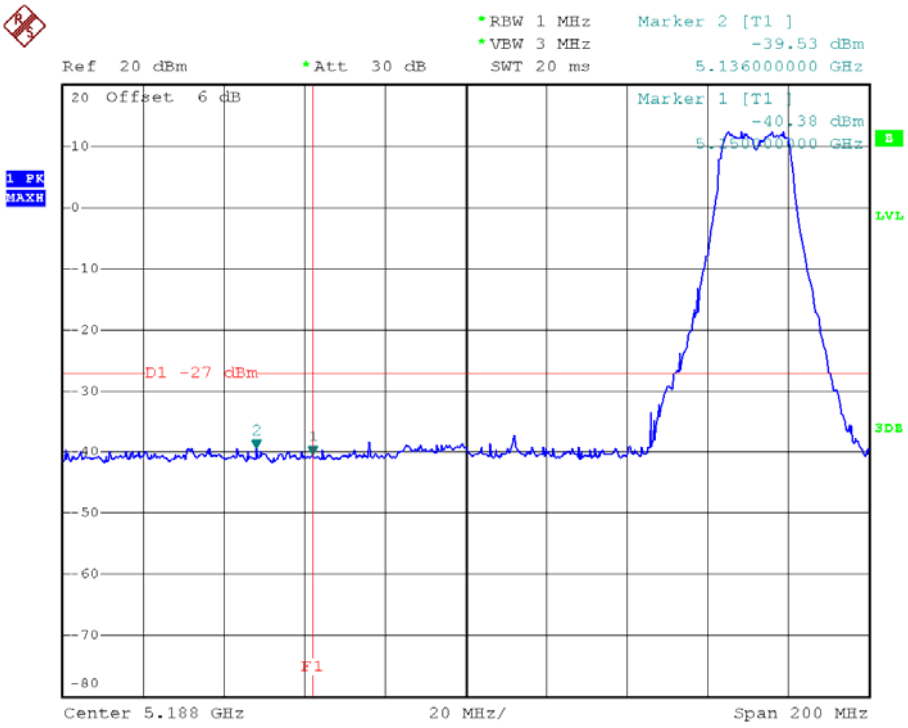


Date: 11.OCT.2012 22:30:13

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 1 For 2TX		

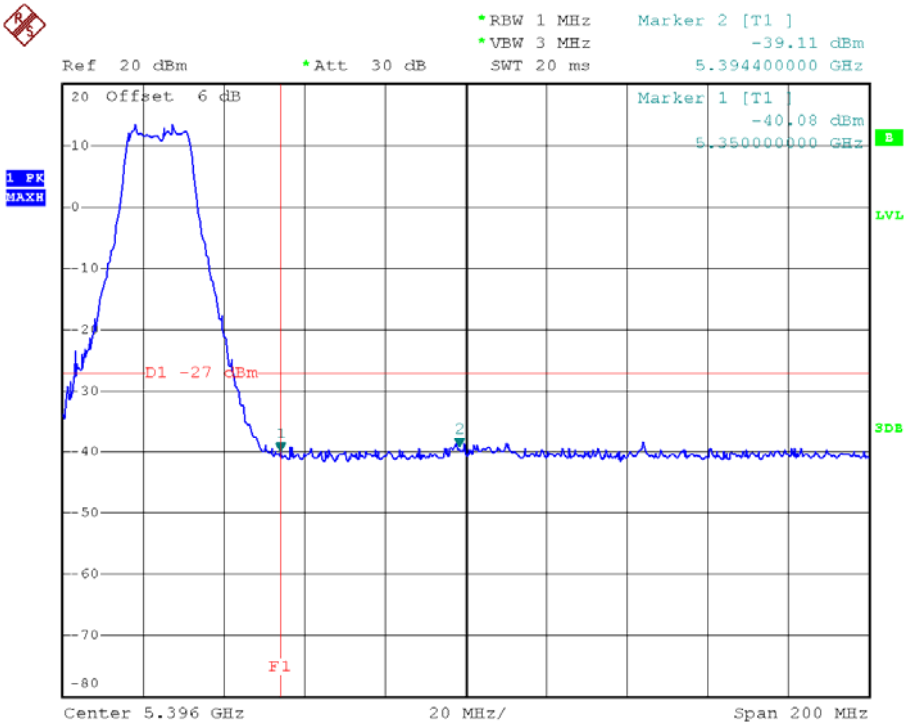
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5136.00	-39.53	5394.40	-39.11
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 23:22:04

TX mode CH64

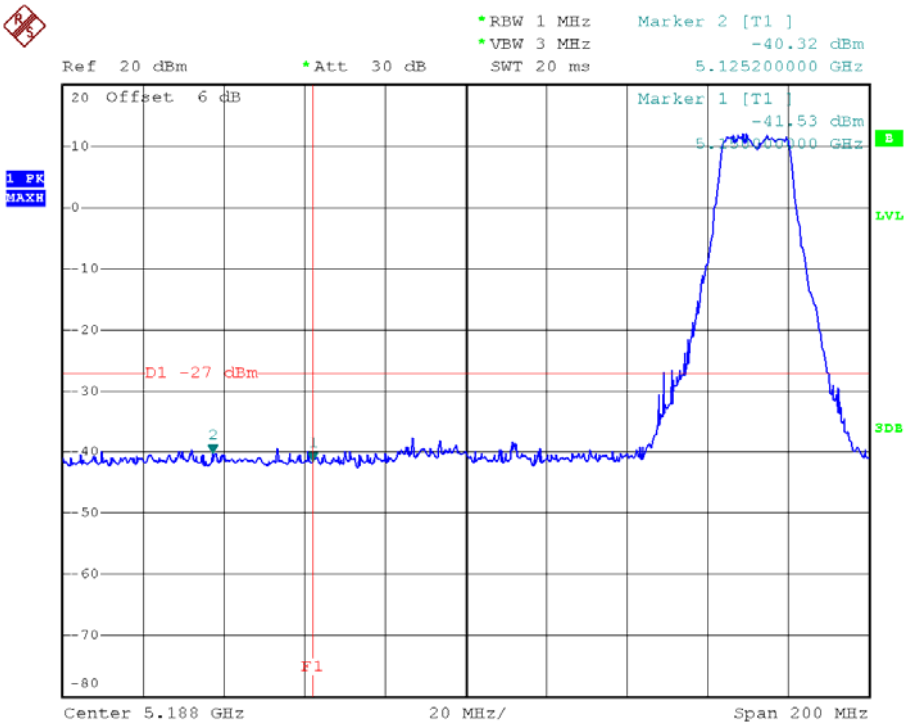


Date: 11.OCT.2012 23:18:39

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 2 For 2TX		

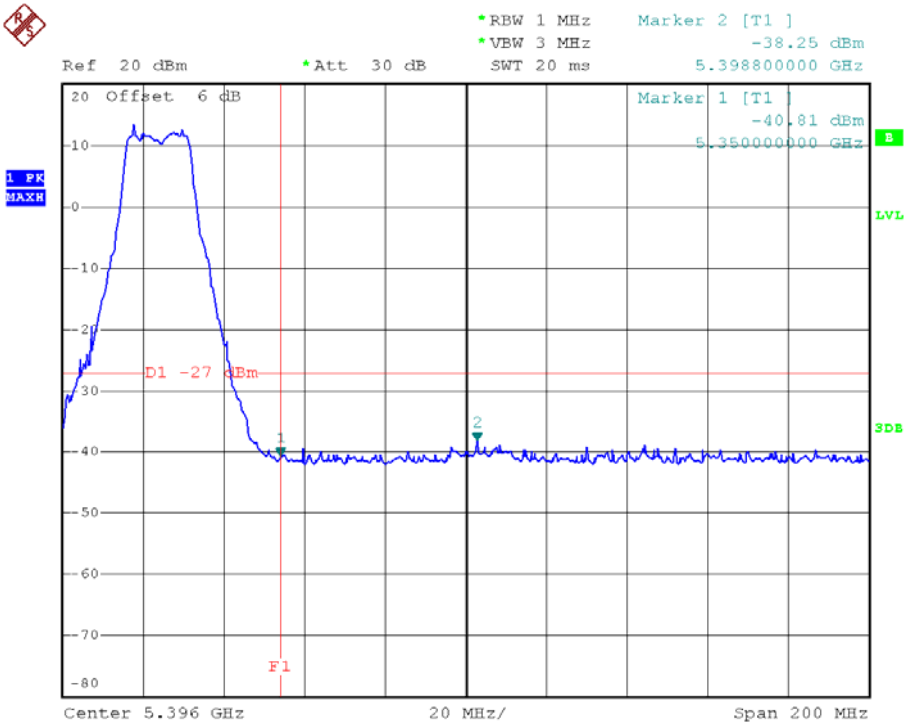
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5125.20	-40.32	5398.80	-38.25
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 23:22:12

TX mode CH64

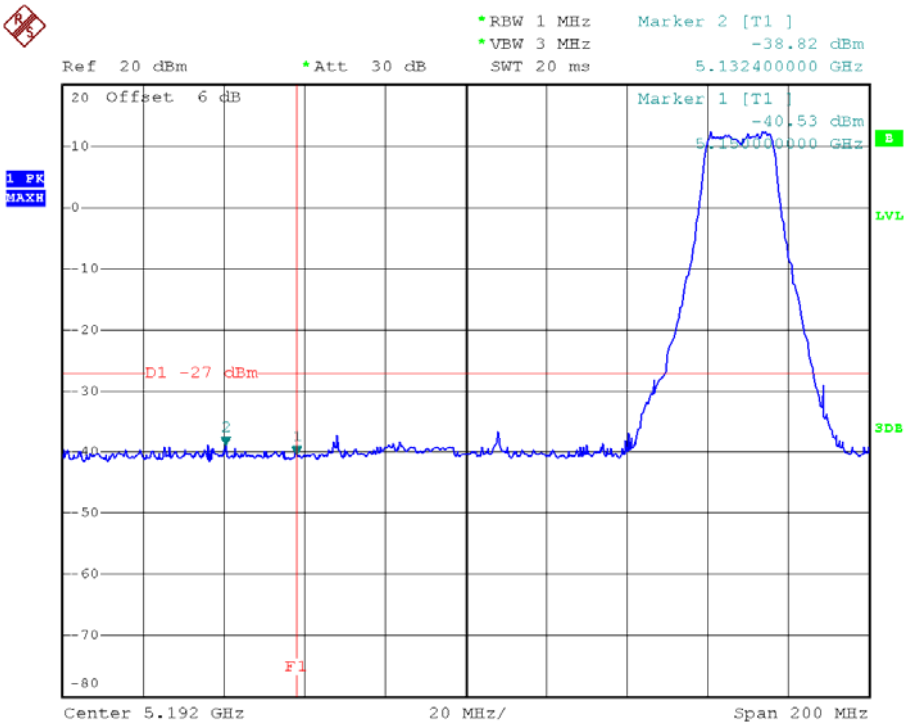


Date: 11.OCT.2012 23:18:49

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 1 For 2TX		

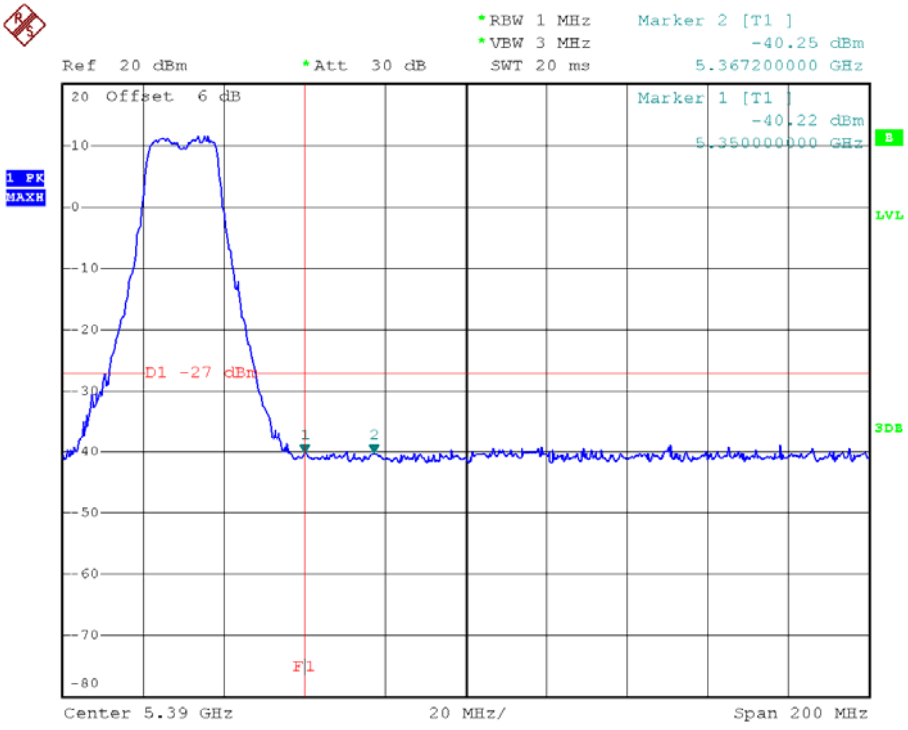
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5132.40	-38.82	5350.00	-40.22
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 23:01:29

TX mode CH64

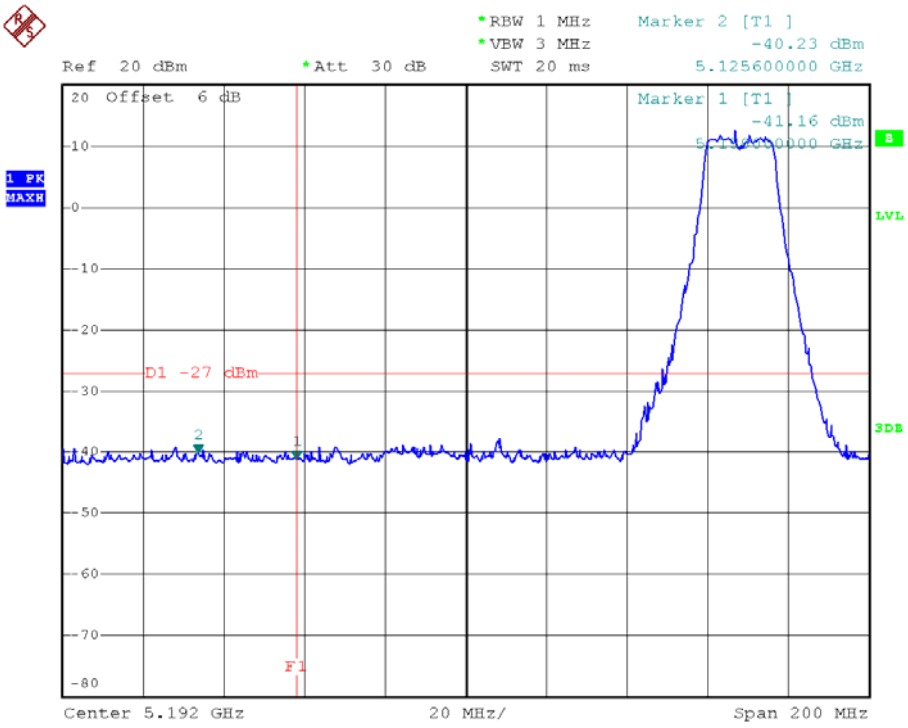


Date: 11.OCT.2012 22:54:36

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 2 For 2TX		

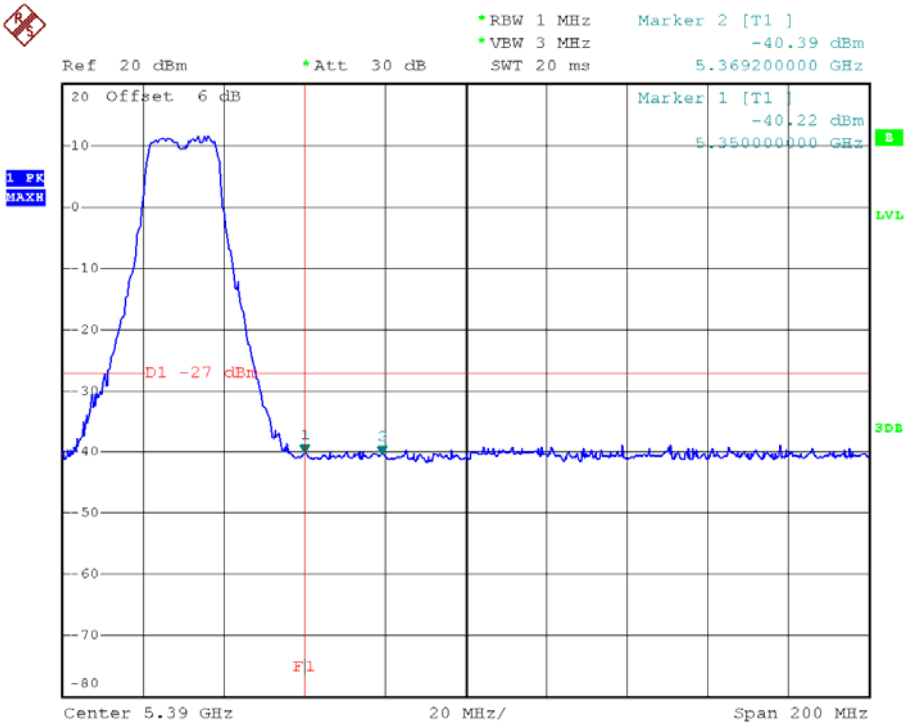
Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5125.60	-40.23	5350.00	-40.22
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH52



Date: 11.OCT.2012 23:01:53

TX mode CH64

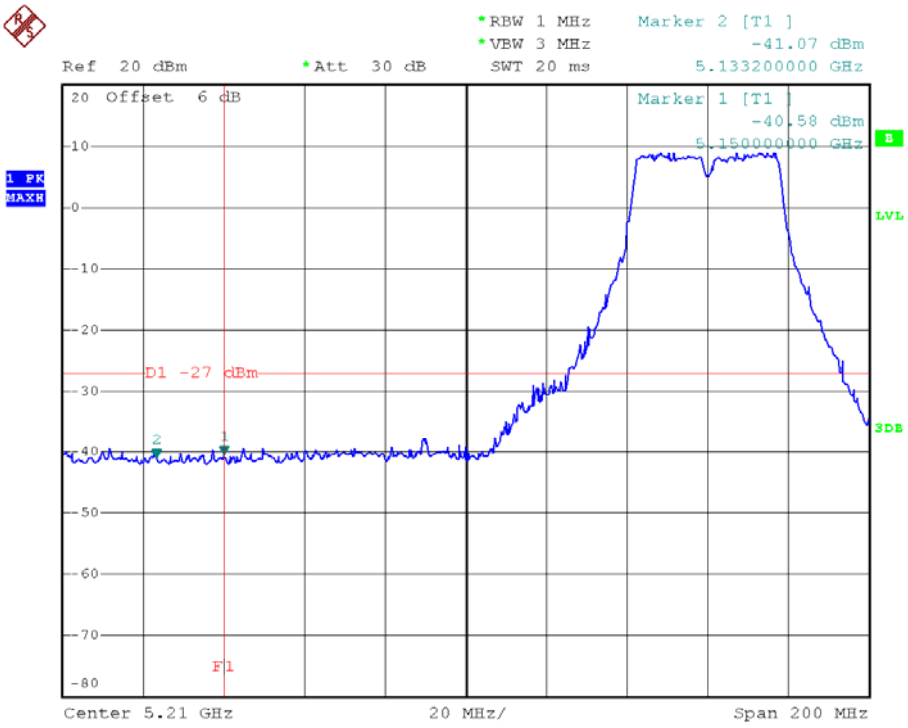


Date: 11.OCT.2012 22:54:45

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/ CH54, CH62 – ANT 1 For 2TX		

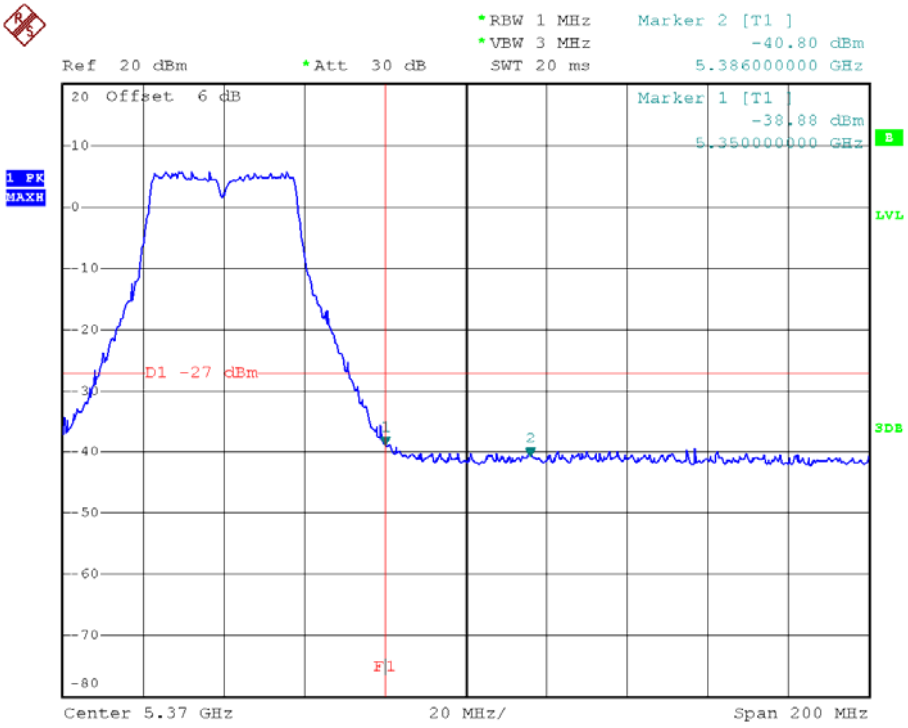
Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-40.58	5350.00	-38.88
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH54



Date: 11.OCT.2012 22:25:37

TX mode CH62

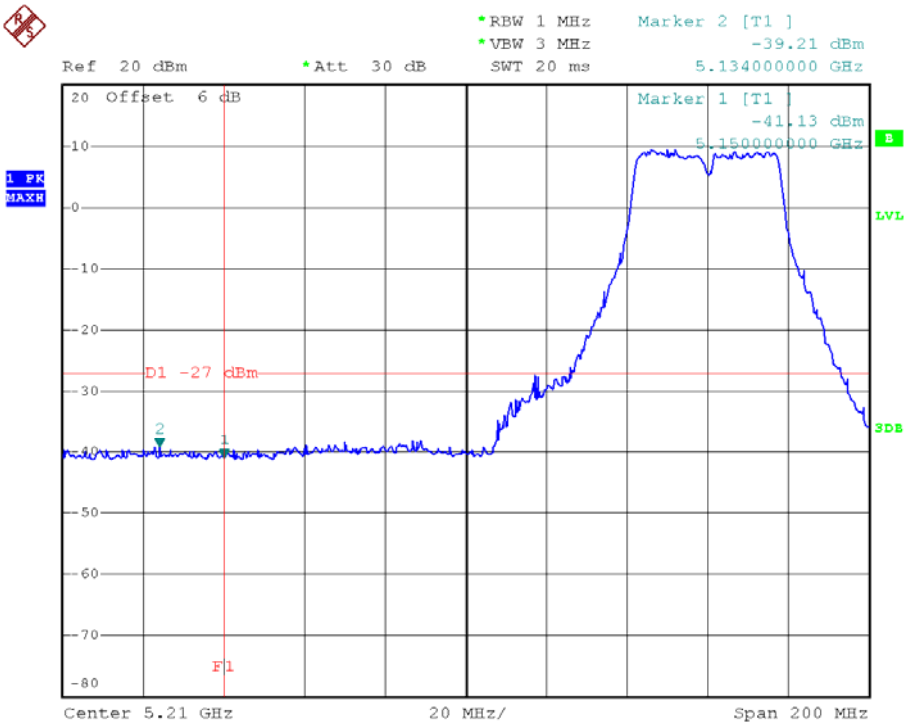


Date: 11.OCT.2012 22:22:03

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/ CH54, CH62 – ANT 2 For 2TX		

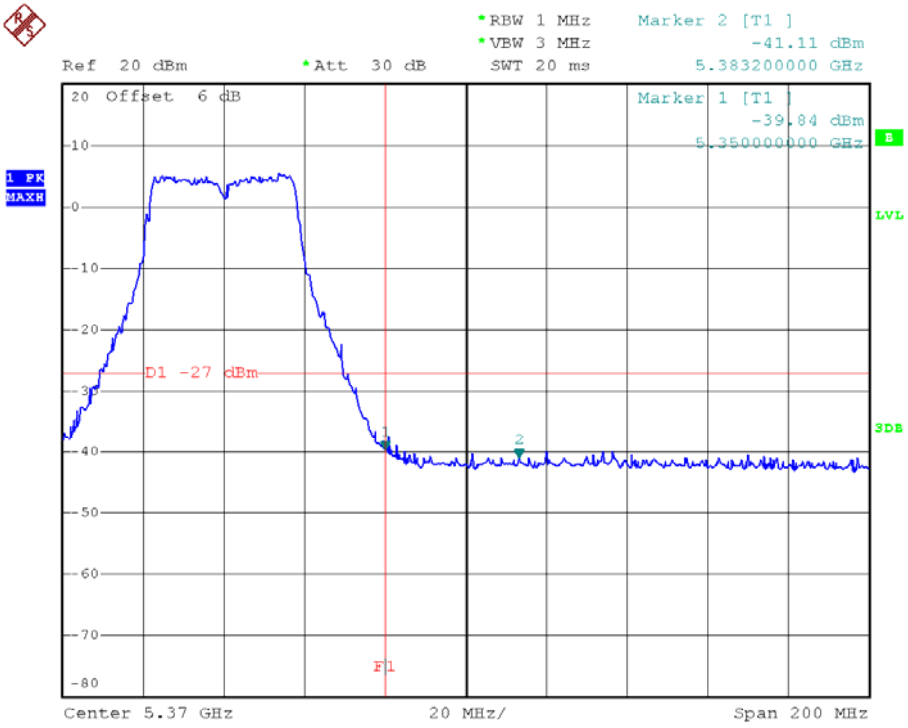
Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5134.00	-39.21	5350.00	-39.84
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH54



Date: 11.OCT.2012 22:25:15

TX mode CH62

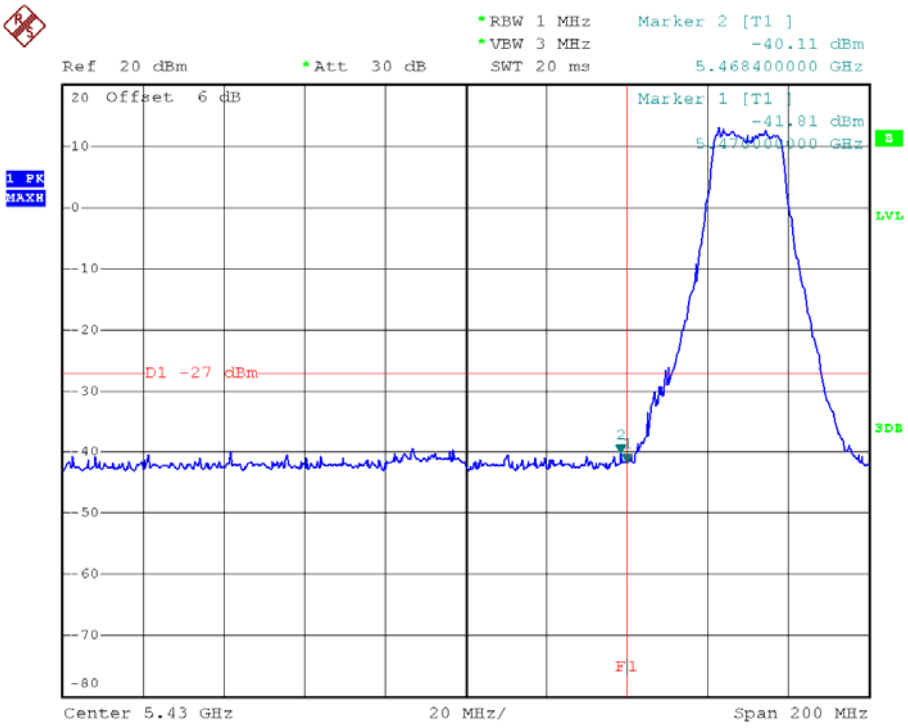


Date: 11.OCT.2012 22:22:36

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 1 For 2TX		

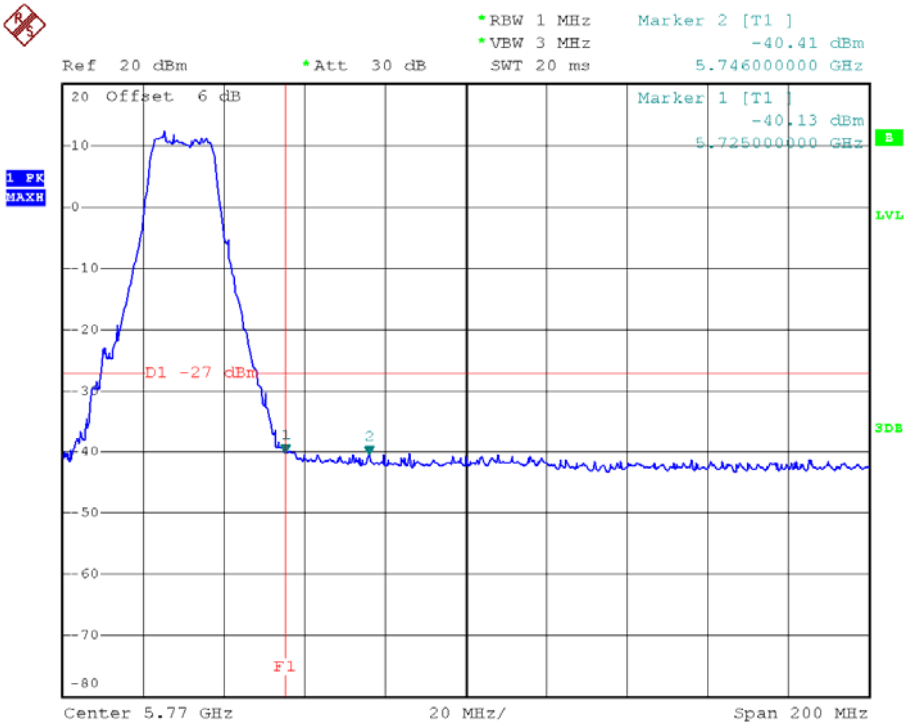
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5468.40	-40.11	5725.00	-40.13
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 23:16:55

TX mode CH140

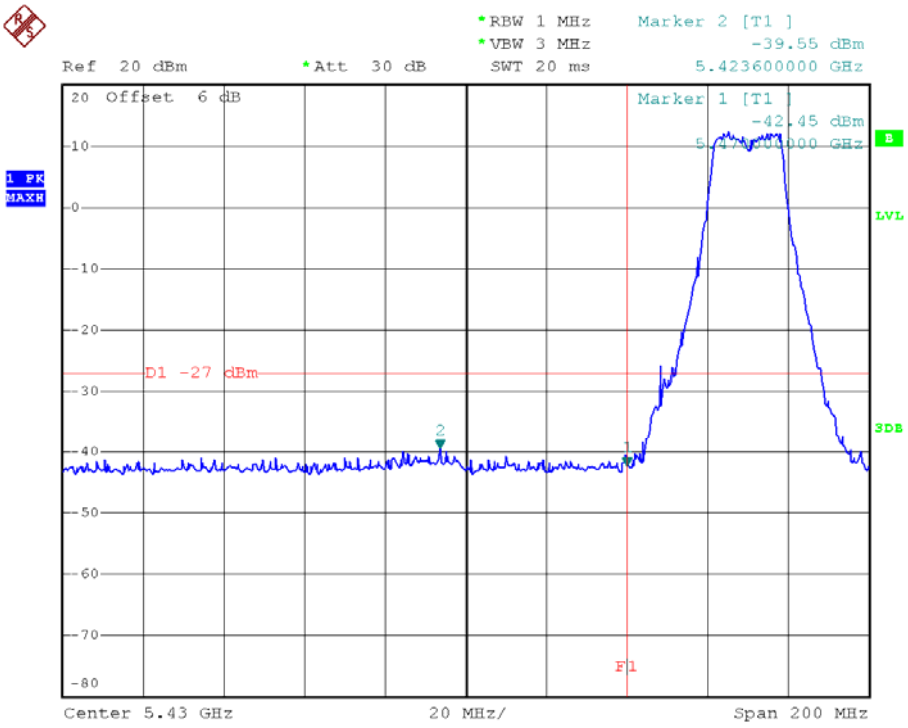


Date: 11.OCT.2012 23:14:17

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 2 For 2TX		

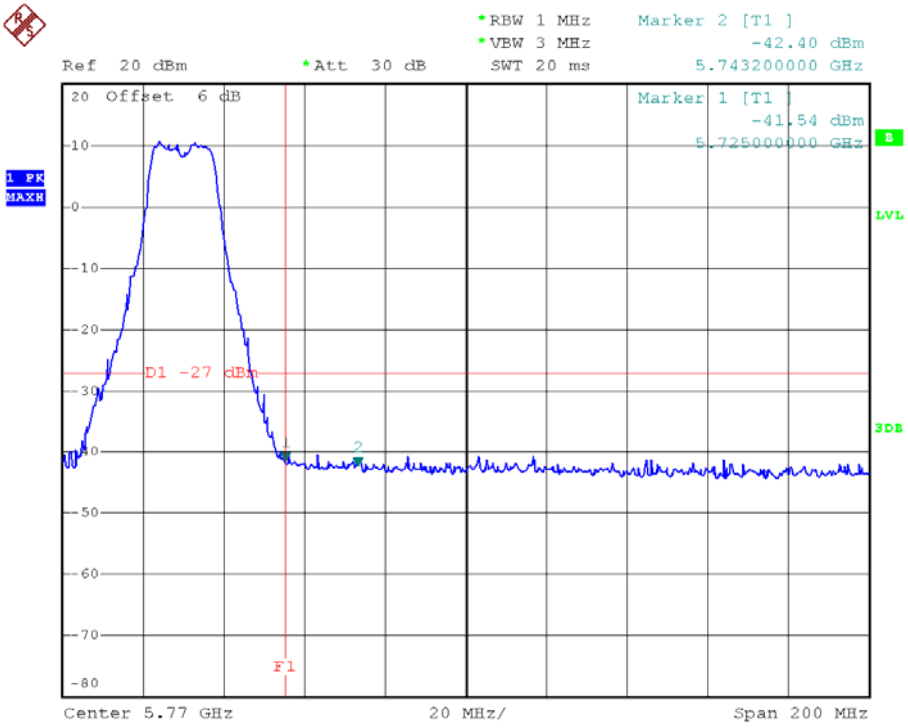
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5423.60	-39.55	5725.00	-41.54
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 23:17:03

TX mode CH140

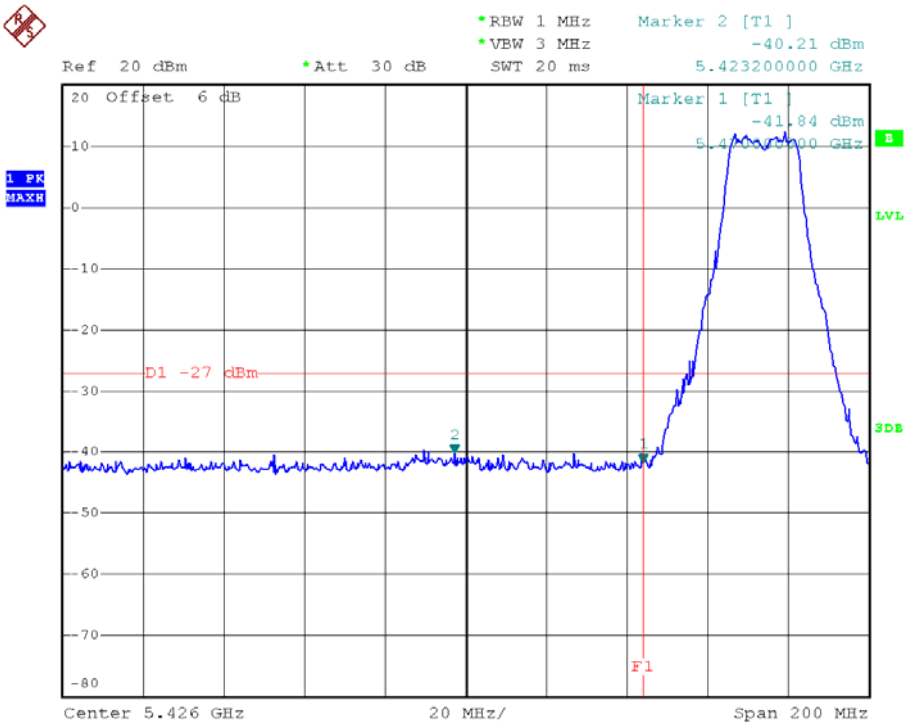


Date: 11.OCT.2012 23:14:27

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 1 For 2TX		

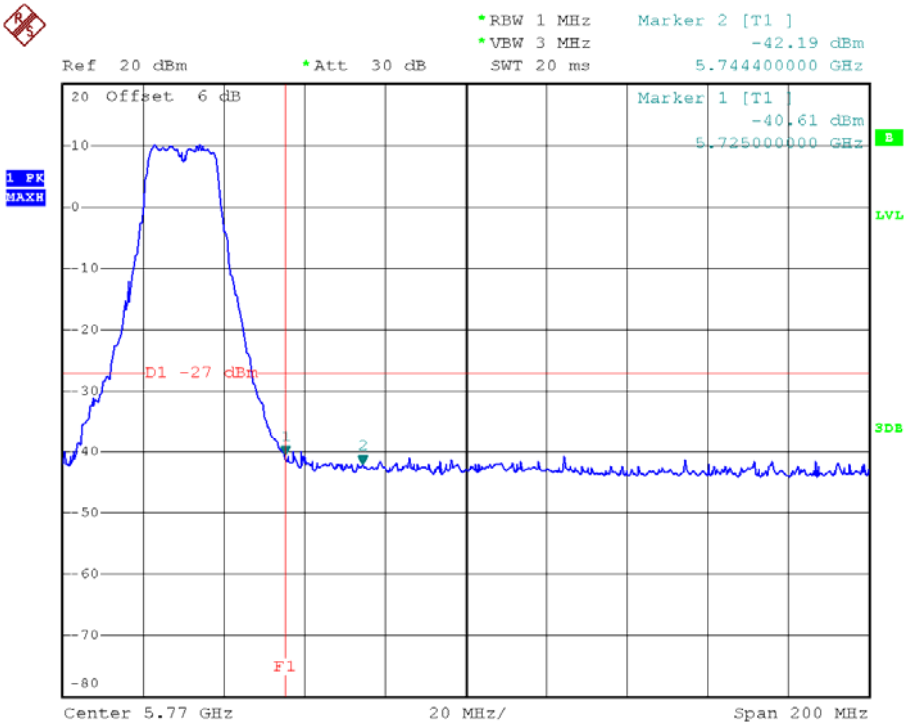
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5423.20	-40.21	5725.00	-40.61
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 23:08:03

TX mode CH140

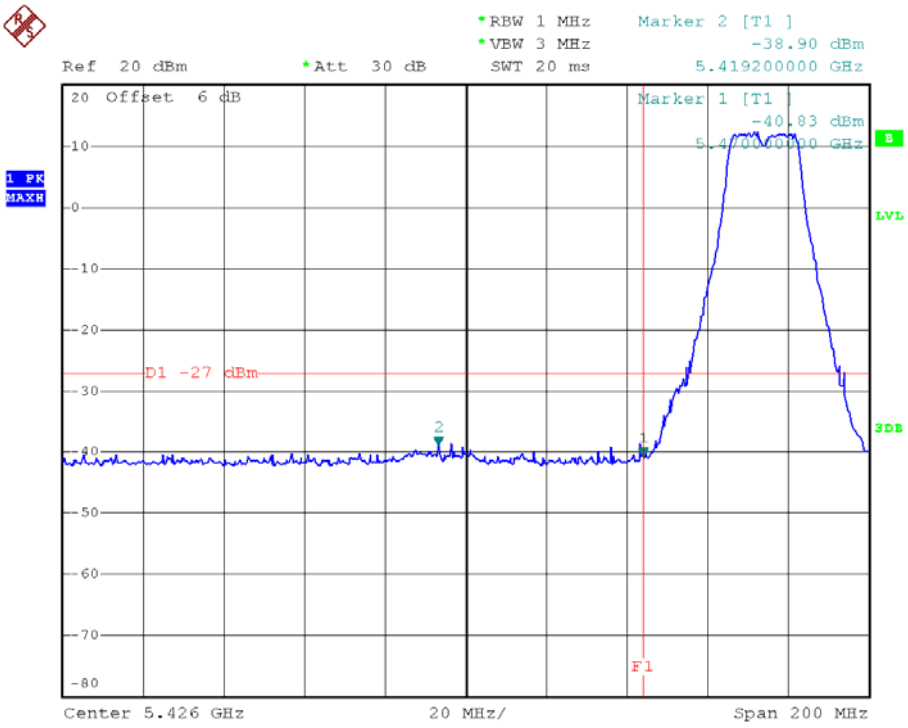


Date: 11.OCT.2012 23:12:30

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 2 For 2TX		

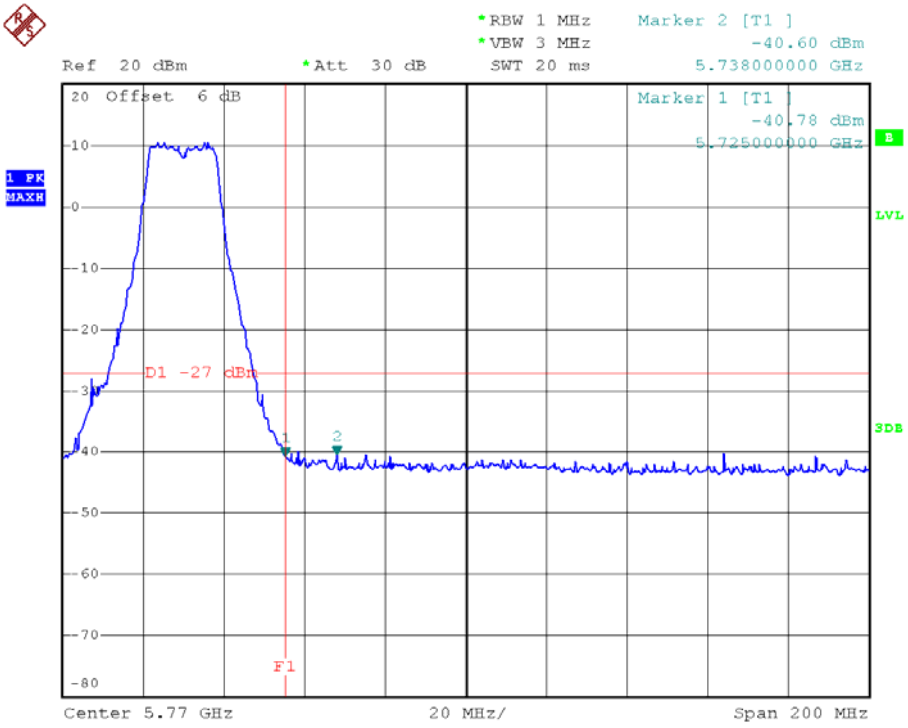
Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5419.20	-38.90	5738.00	-40.60
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH100



Date: 11.OCT.2012 23:07:55

TX mode CH140

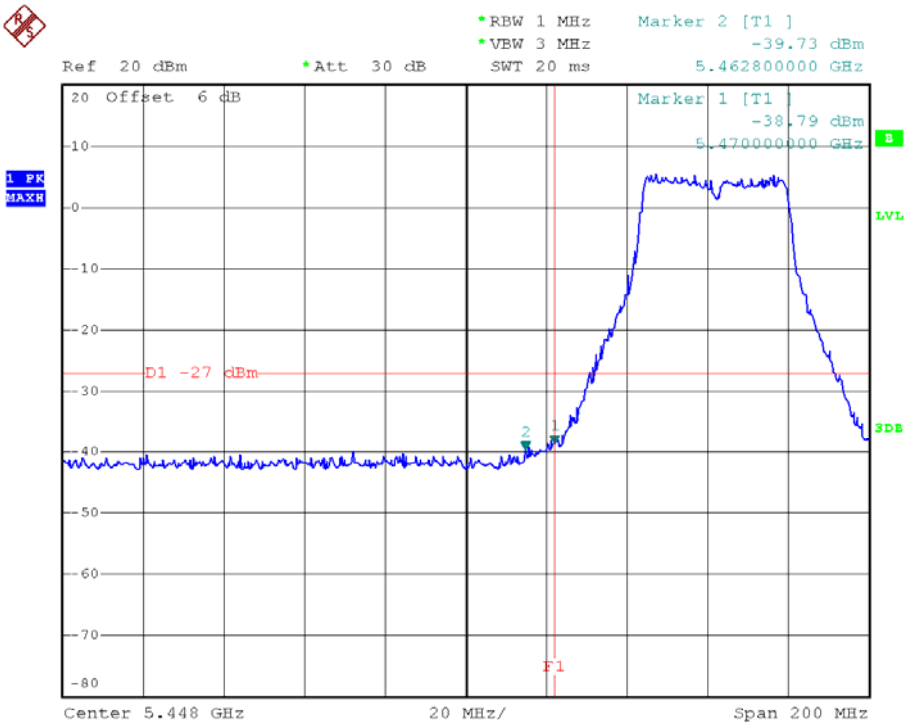


Date: 11.OCT.2012 23:12:19

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 1 For 2TX		

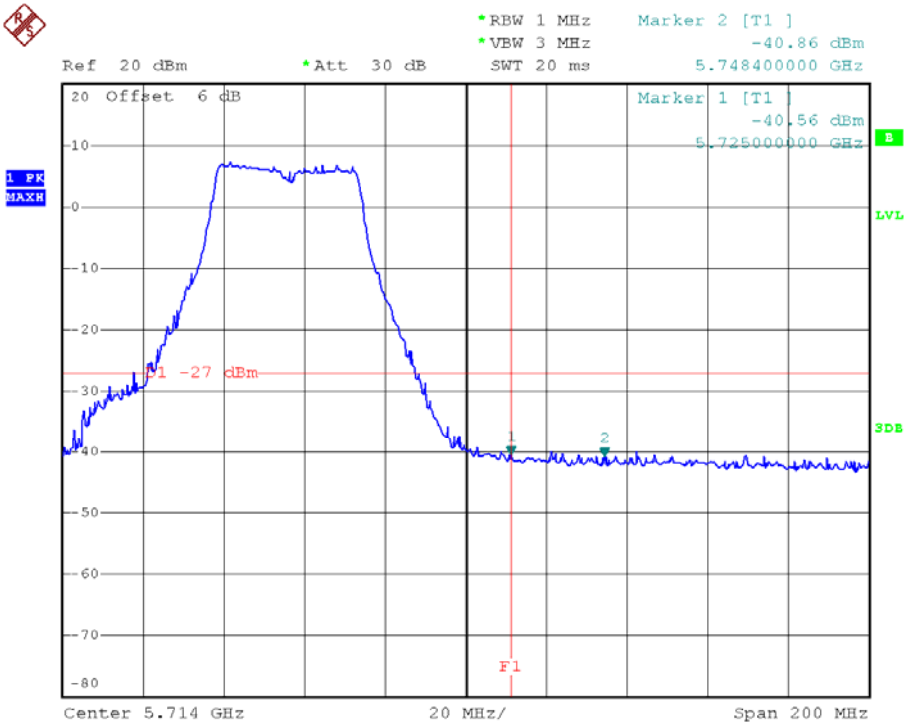
Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-38.79	5725.00	-40.56
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH102



Date: 11.OCT.2012 22:19:43

TX mode CH134

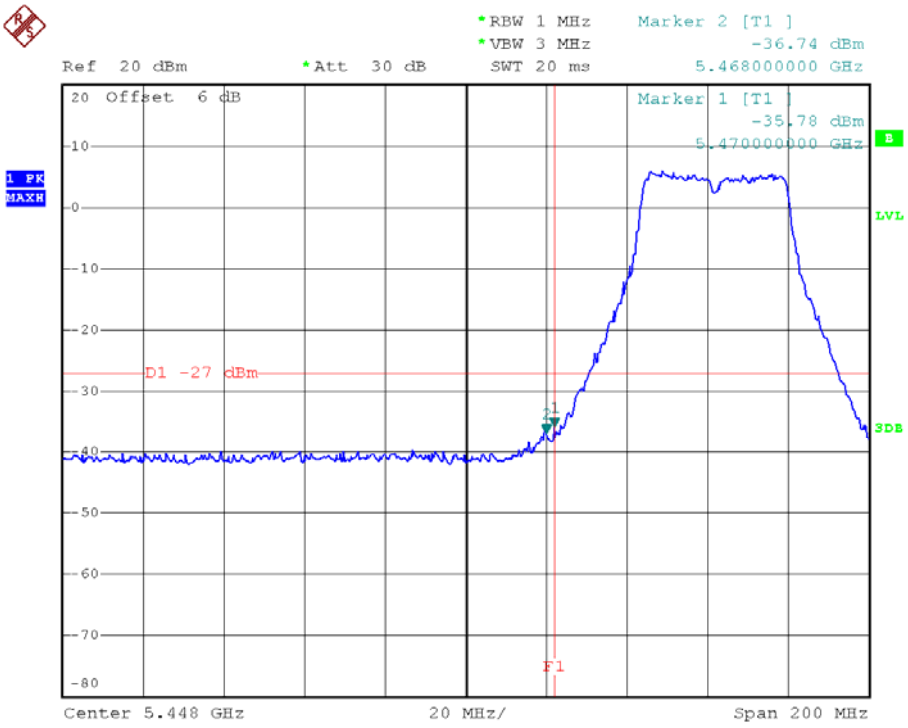


Date: 11.OCT.2012 22:15:23

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 2 For 2TX		

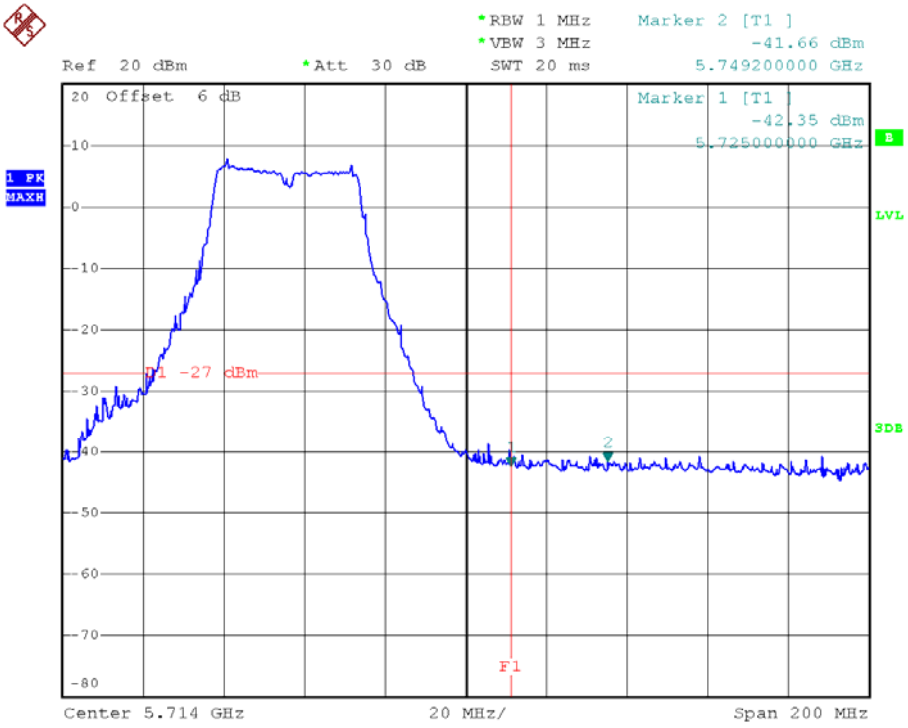
Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-35.78	5749.20	-41.66
Limit: -27 dBm/1MHz Result:PASS			
Measurement method: S.A Read value+Ant gain+cable loss			

TX mode CH102



Date: 11.OCT.2012 22:19:35

TX mode CH134



Date: 11.OCT.2012 22:15:32

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	4 dBm	5150 - 5250	PASS
	11 dBm	5250 - 5350	PASS
	11 dBm	5470 - 5725	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2011	Nov.26.2012

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

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 Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	= 1 MHz.
VB	≥ 3 MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

8.1.5 EUT OPERATION CONDITIONS

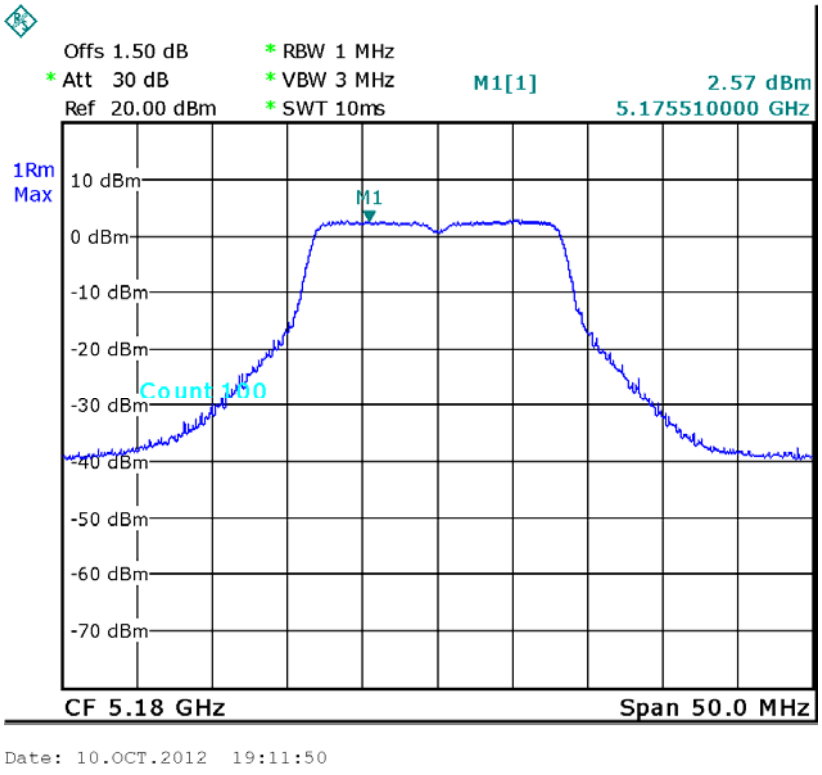
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

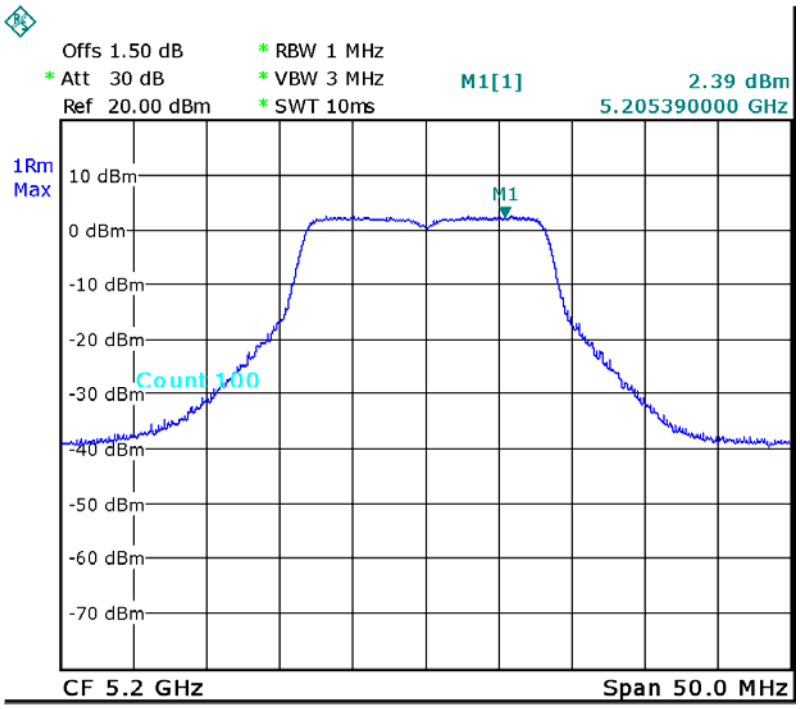
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/CH36, CH40, CH48 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	2.57	4.00
CH40	5210	2.39	4.00
CH48	5240	2.41	4.00

CH36-ANT 2

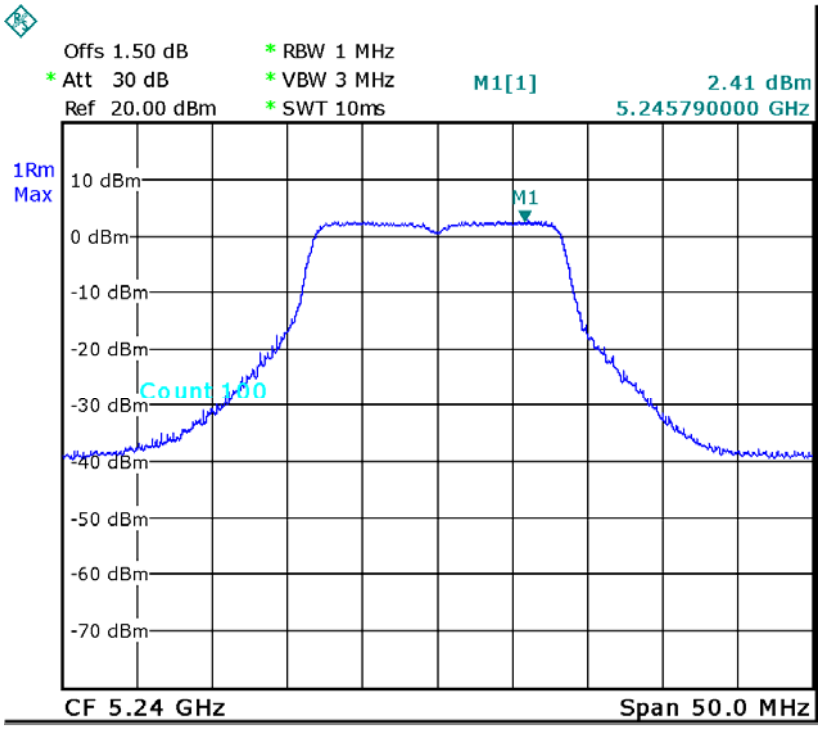


CH40-ANT 2



Date: 10.OCT.2012 19:13:46

CH48-ANT 2

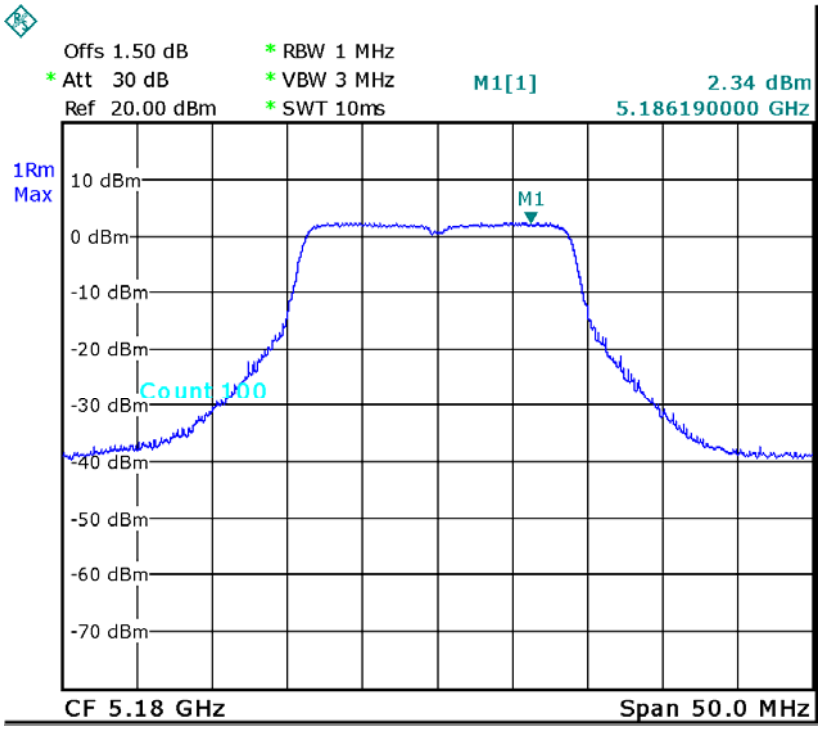


Date: 10.OCT.2012 19:15:30

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/CH36, CH40, CH48 - For 1TX		

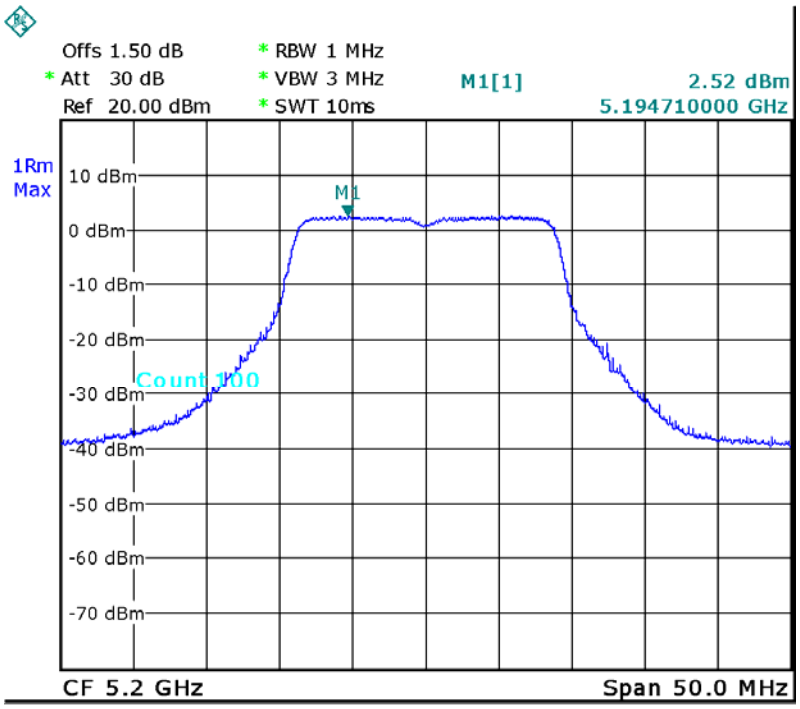
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	2.34	4.00
CH40	5210	2.52	4.00
CH48	5240	2.27	4.00

CH36-ANT 2



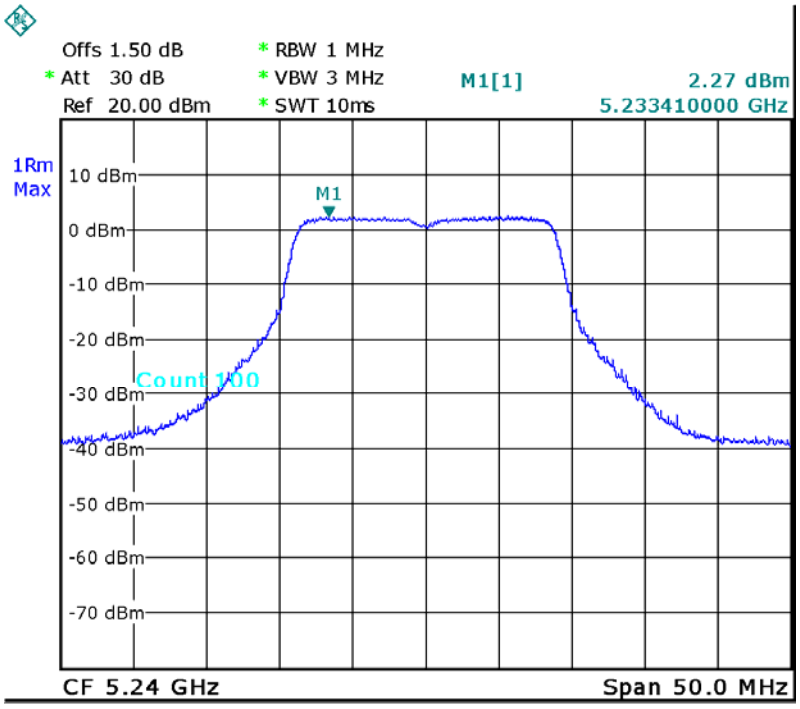
Date: 10.OCT.2012 20:07:29

CH40-ANT 2



Date: 10.OCT.2012 20:09:41

CH48-ANT 2

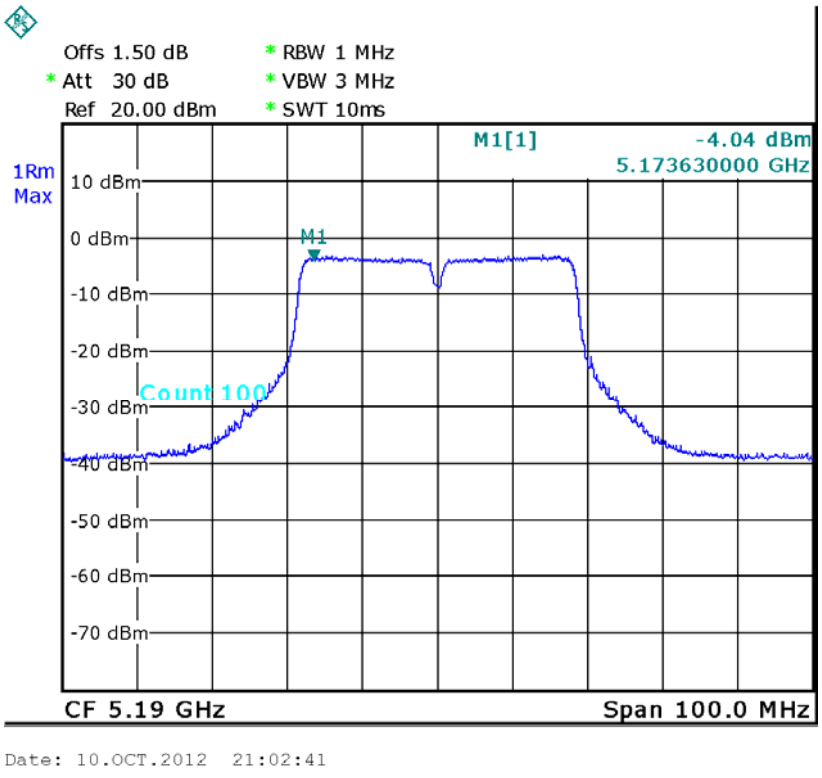


Date: 10.OCT.2012 20:20:24

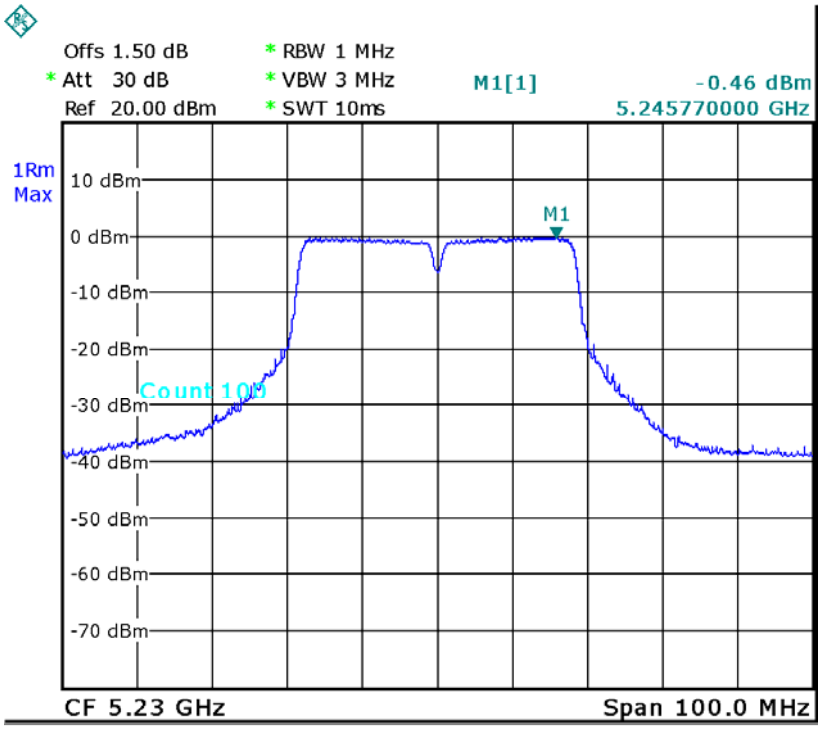
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/CH38, CH46 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-4.04	4.00
CH46	5230	-0.46	4.00

CH38-ANT 2



CH46-ANT 2

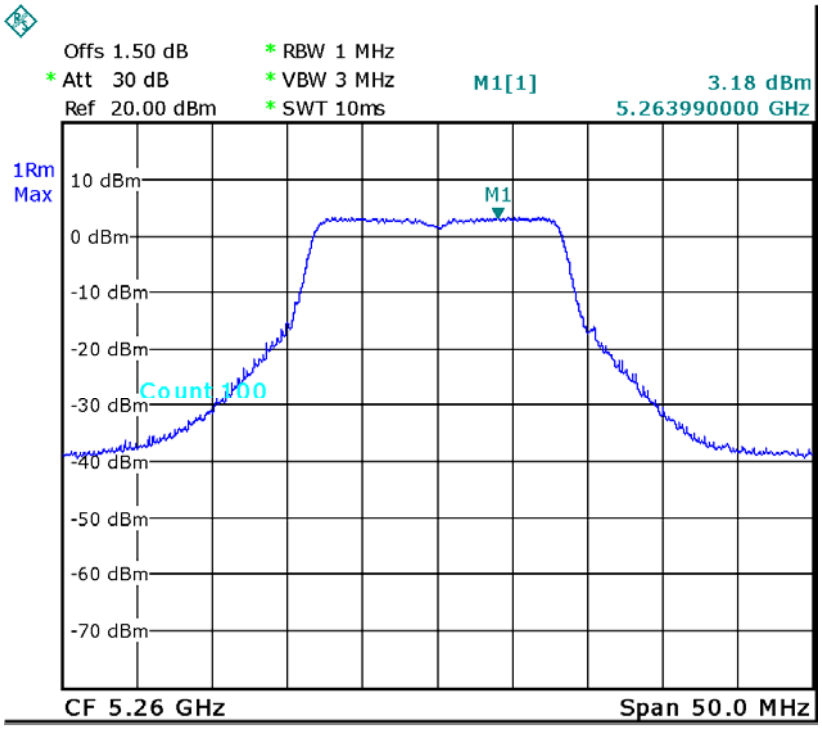


Date: 10.OCT.2012 20:59:23

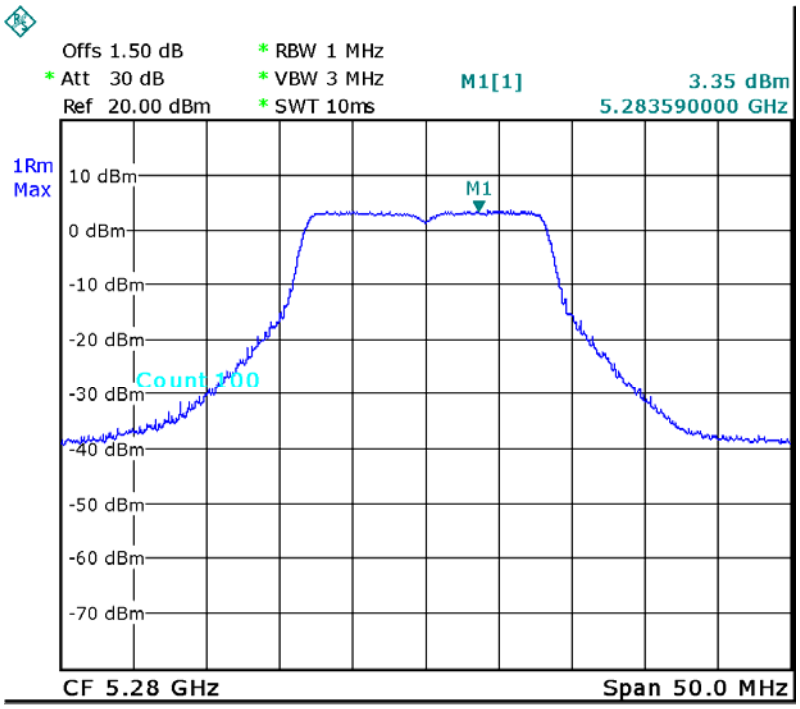
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/CH52, CH56, CH64 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	3.18	11
CH56	5280	3.35	11
CH64	5320	4.32	11

CH52-ANT 2

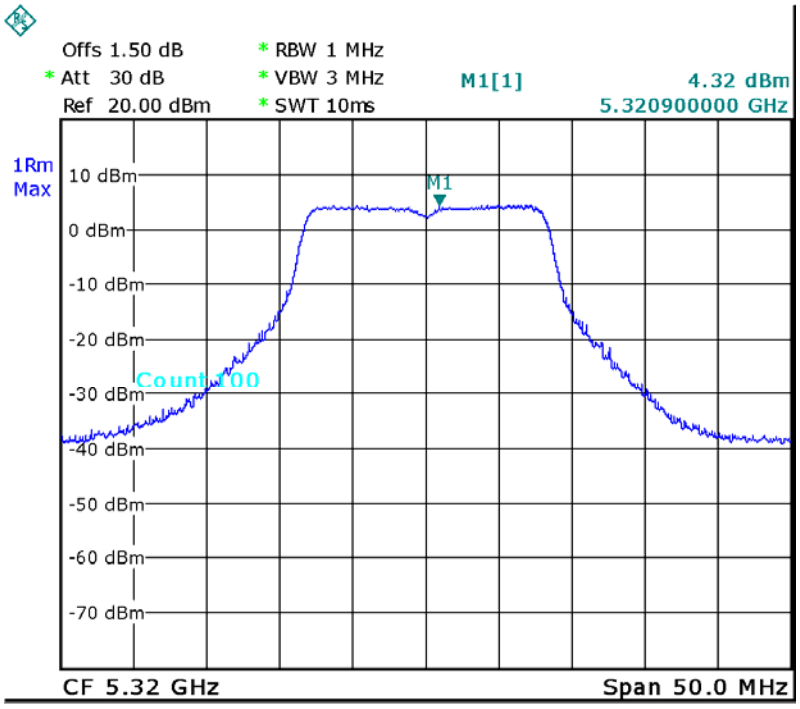


CH56-ANT 2



Date: 10.OCT.2012 19:19:03

CH64-ANT 2

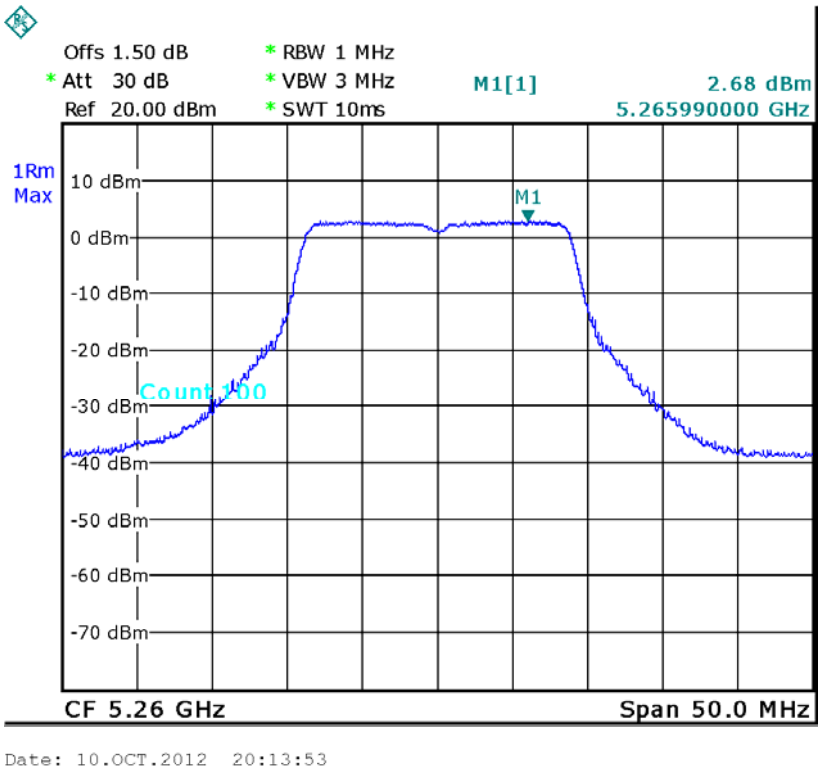


Date: 10.OCT.2012 19:20:14

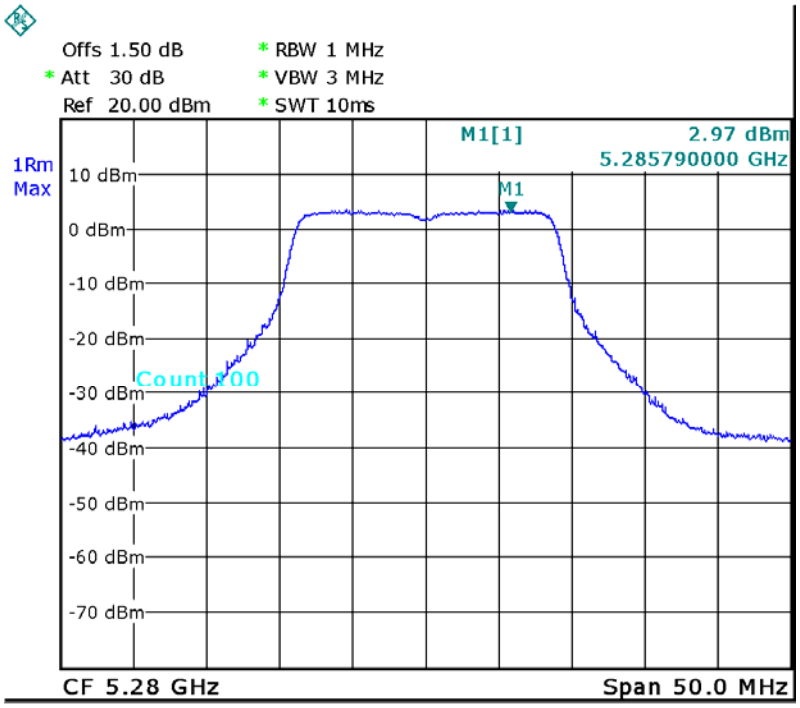
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/CH52, CH56, CH64 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.68	11
CH56	5280	2.97	11
CH64	5320	4.05	11

CH52-ANT 2

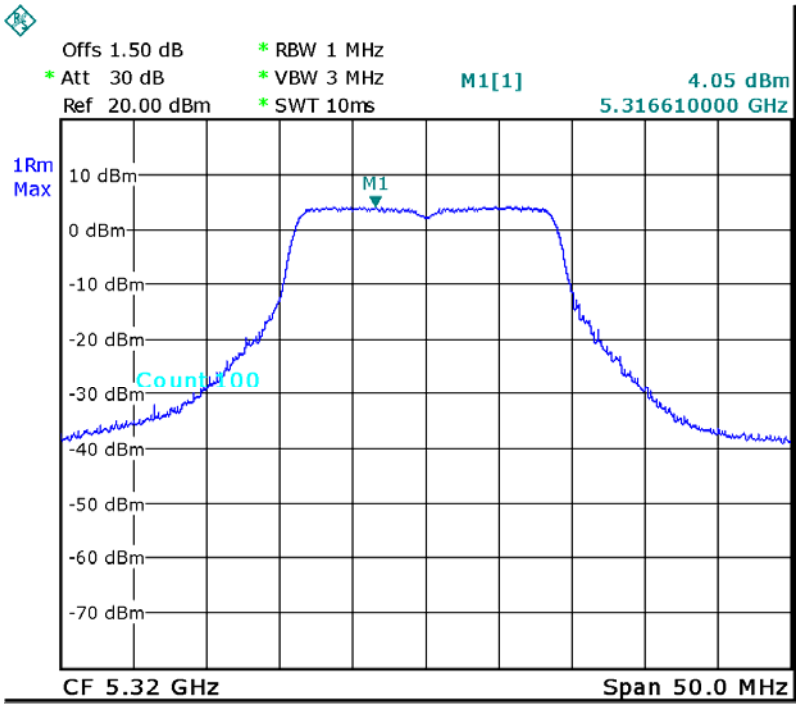


CH56-ANT 2



Date: 10.OCT.2012 20:24:59

CH64-ANT 2

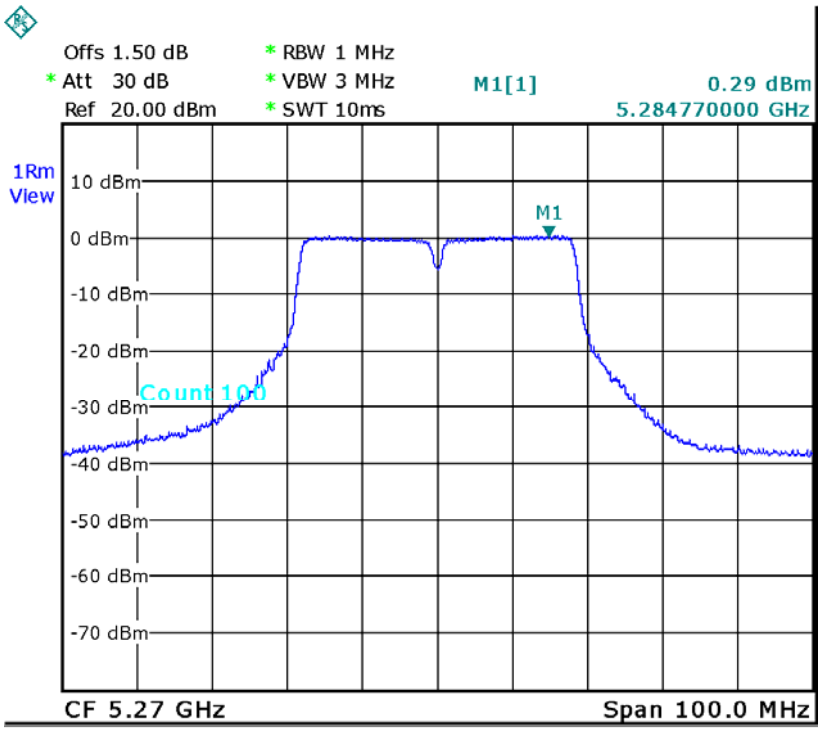


Date: 10.OCT.2012 20:27:24

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/CH54, CH62 - For 1TX		

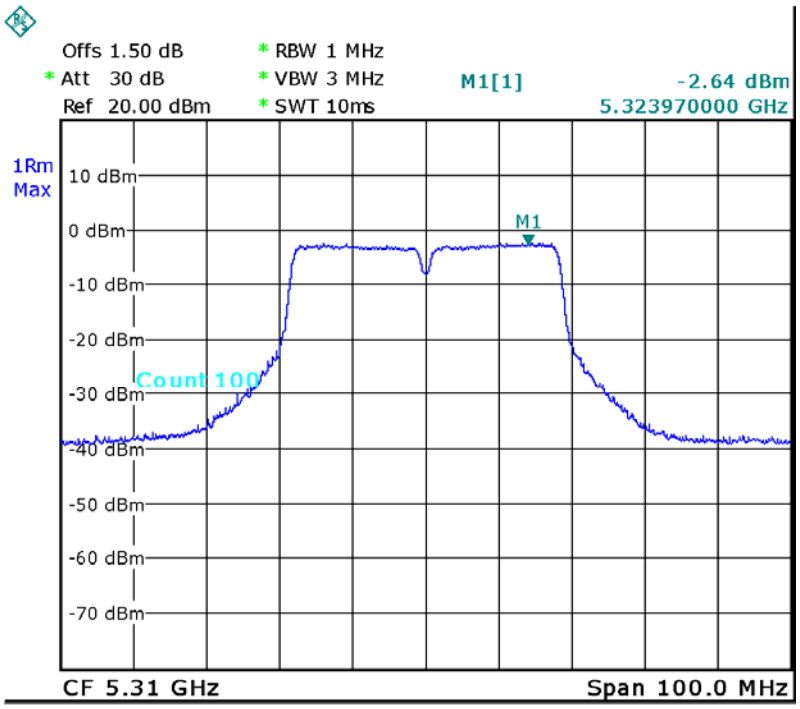
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	0.29	11
CH62	5310	-2.64	11

CH54-ANT 2



Date: 10.OCT.2012 20:56:39

CH62-ANT 2

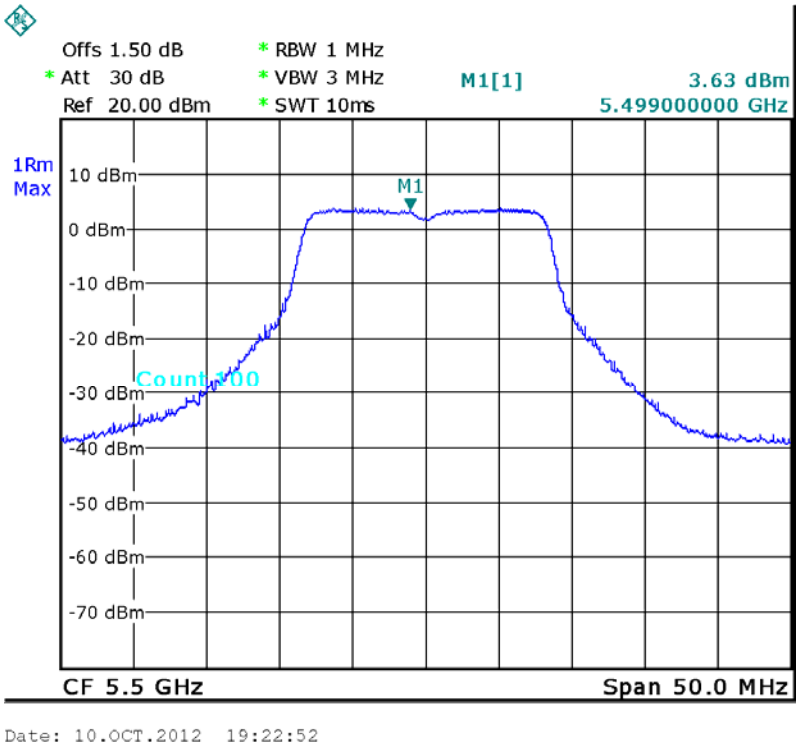


Date: 10.OCT.2012 20:52:25

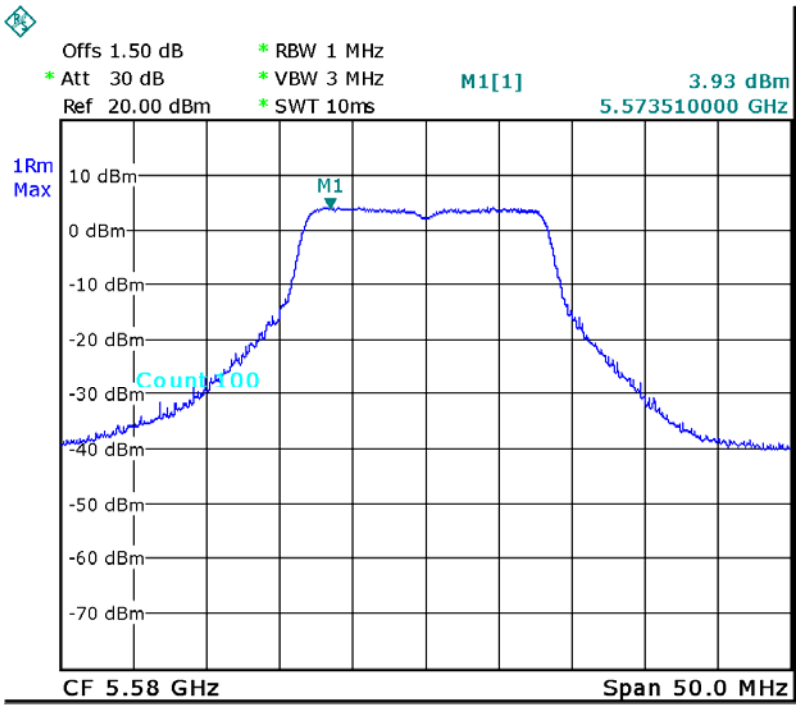
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/CH100, CH116, CH140 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	3.49	11
CH116	5580	3.93	11
CH140	5700	3.63	11

CH100-ANT 2

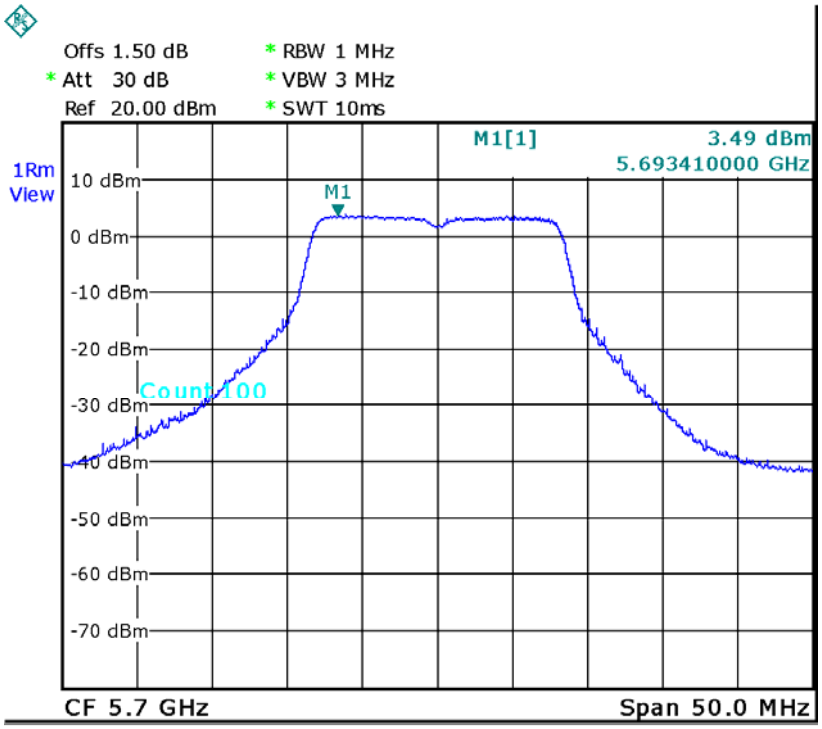


CH116-ANT 2



Date: 10.OCT.2012 19:24:23

CH140-ANT 2

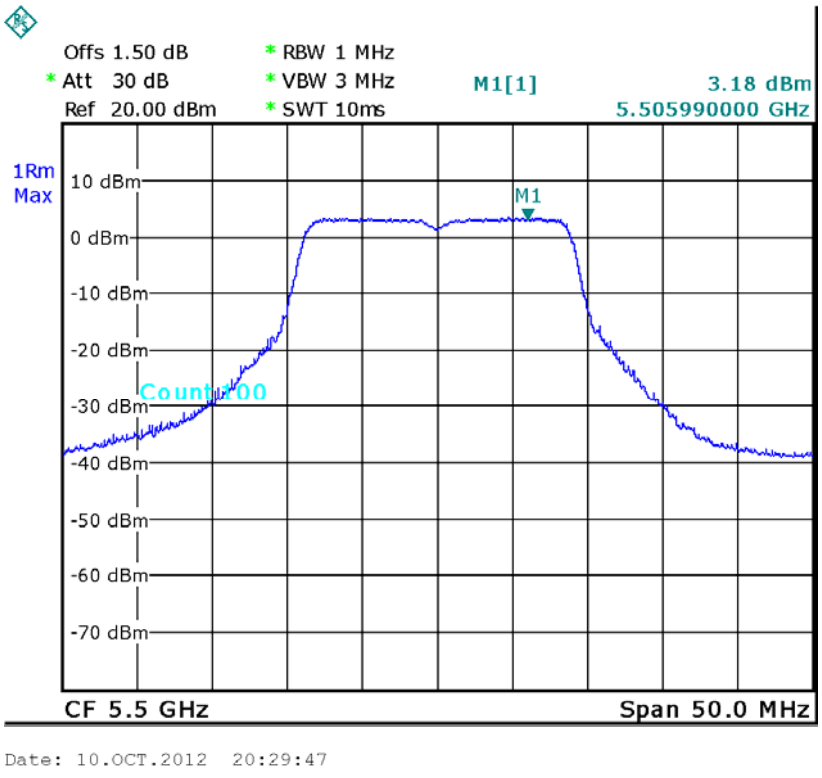


Date: 10.OCT.2012 19:26:20

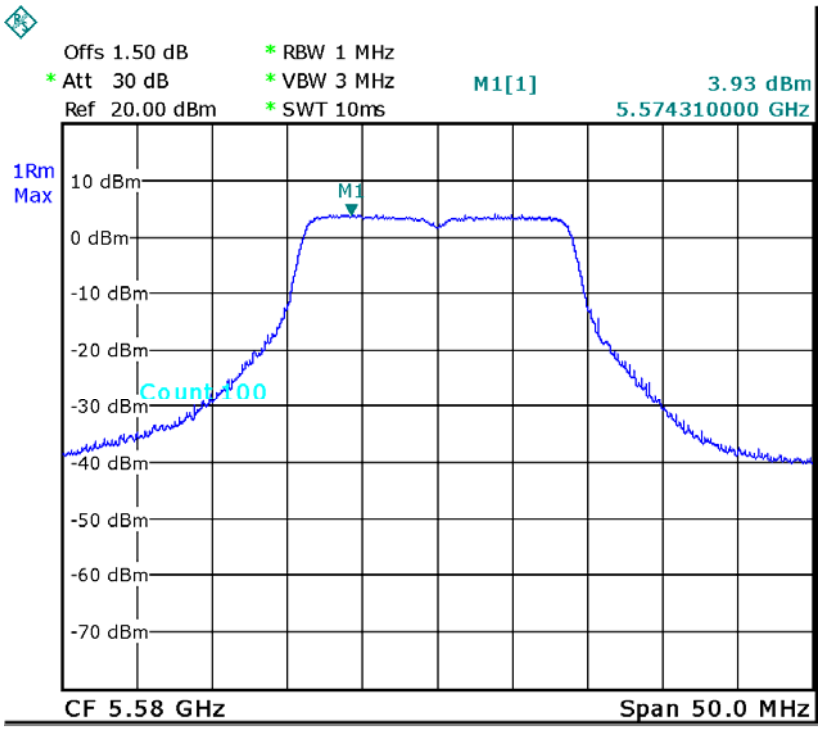
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	3.18	11
CH116	5580	3.93	11
CH140	5700	3.45	11

CH100-ANT 2

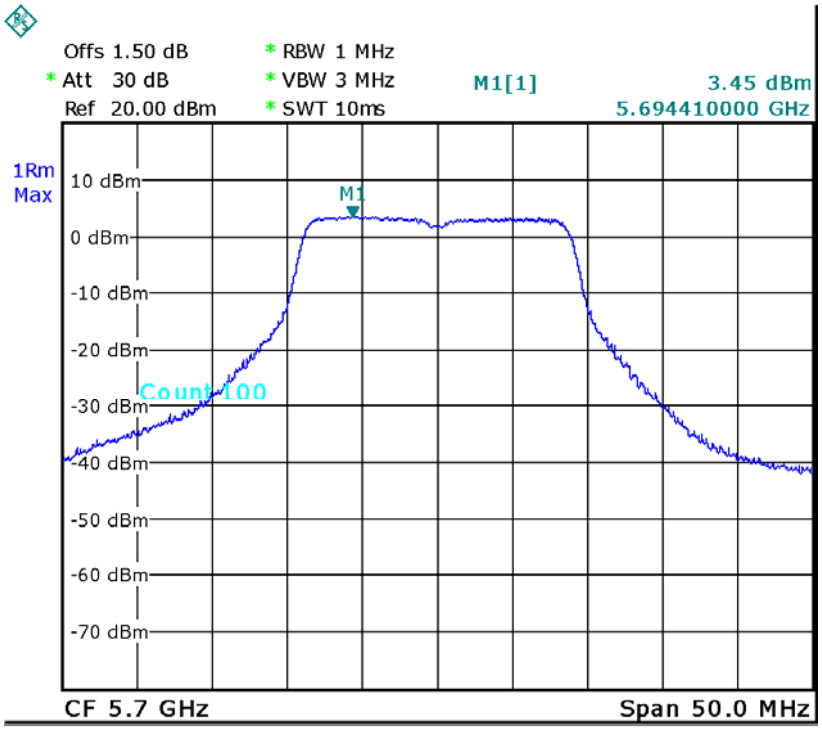


CH116-ANT 2



Date: 10.OCT.2012 20:32:16

CH140-ANT 2

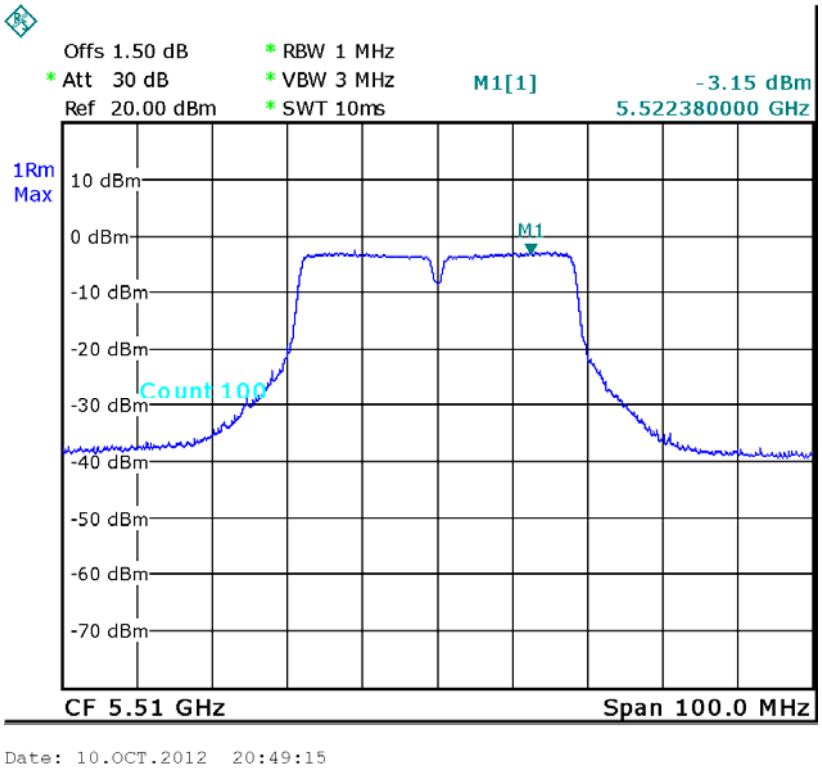


Date: 10.OCT.2012 20:35:30

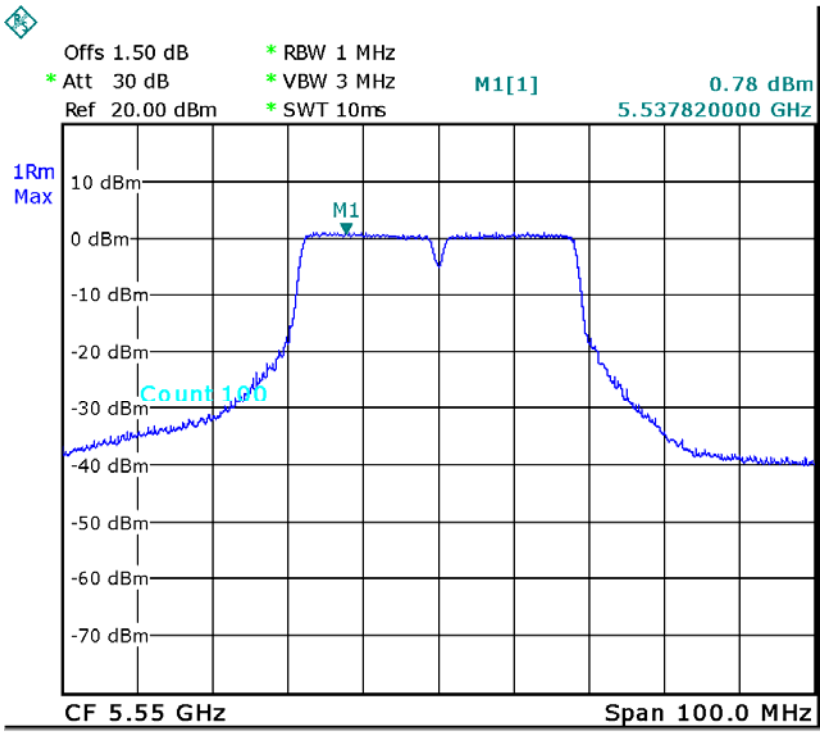
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-3.15	11
CH110	5550	0.78	11
CH134	5670	0.45	11

CH102-ANT 2

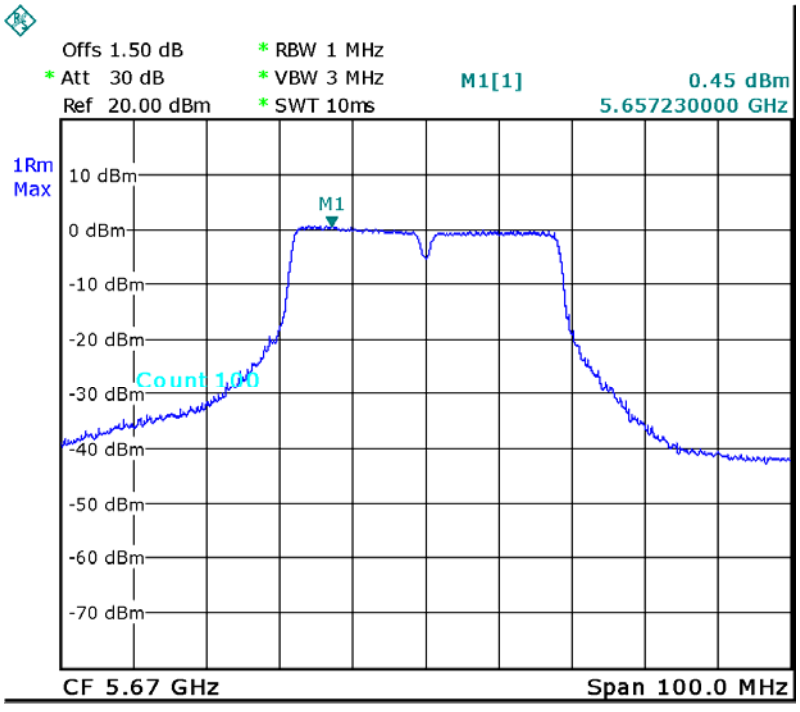


CH110-ANT 2



Date: 10.OCT.2012 20:44:47

CH134-ANT 2



Date: 10.OCT.2012 20:46:19

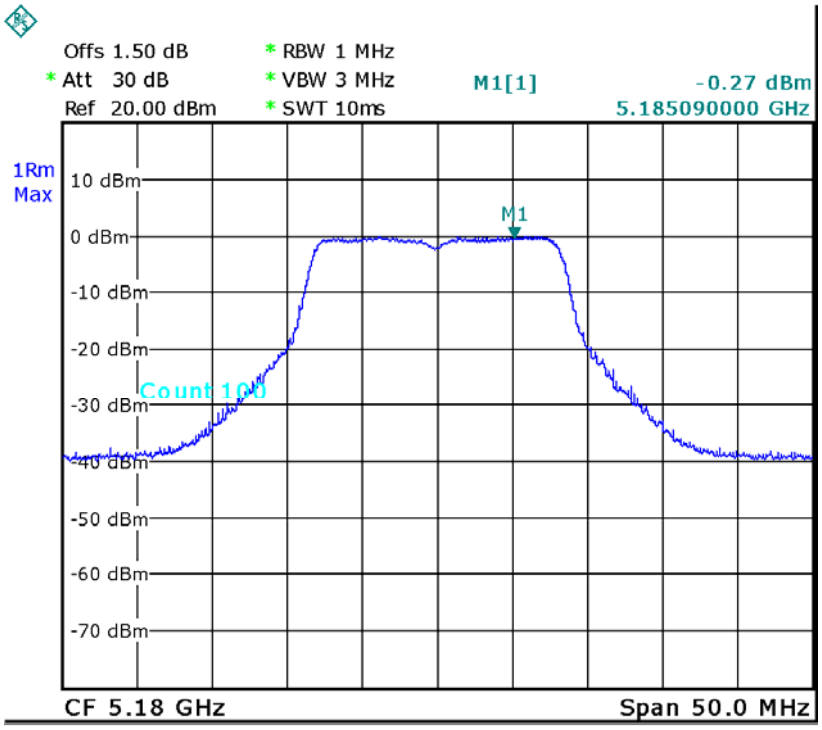
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/CH36, CH40, CH48 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-0.87	4.00
CH40	5210	-0.35	4.00
CH48	5240	-0.27	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-0.24	4.00
CH40	5210	-0.54	4.00
CH48	5240	-0.71	4.00

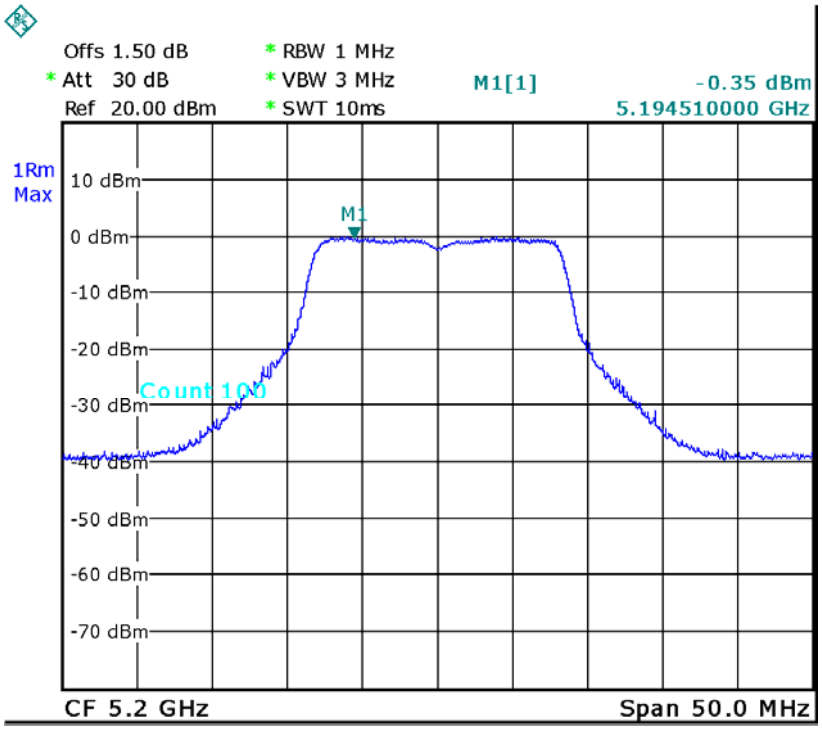
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	2.47	4.00
CH40	5210	2.57	4.00
CH48	5240	2.53	4.00

CH36-ANT 1



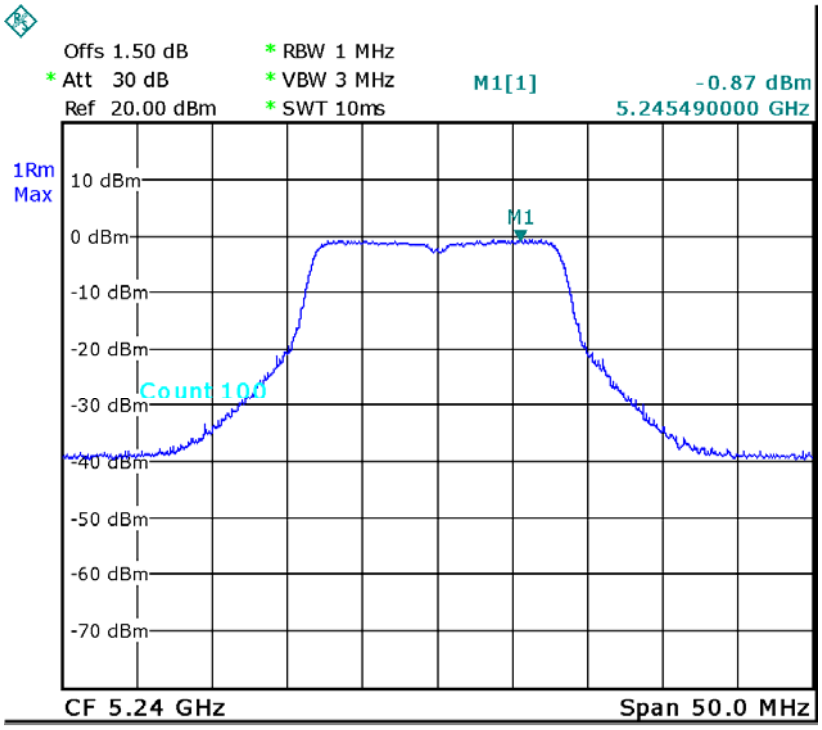
Date: 10.OCT.2012 20:00:41

CH40-ANT 1



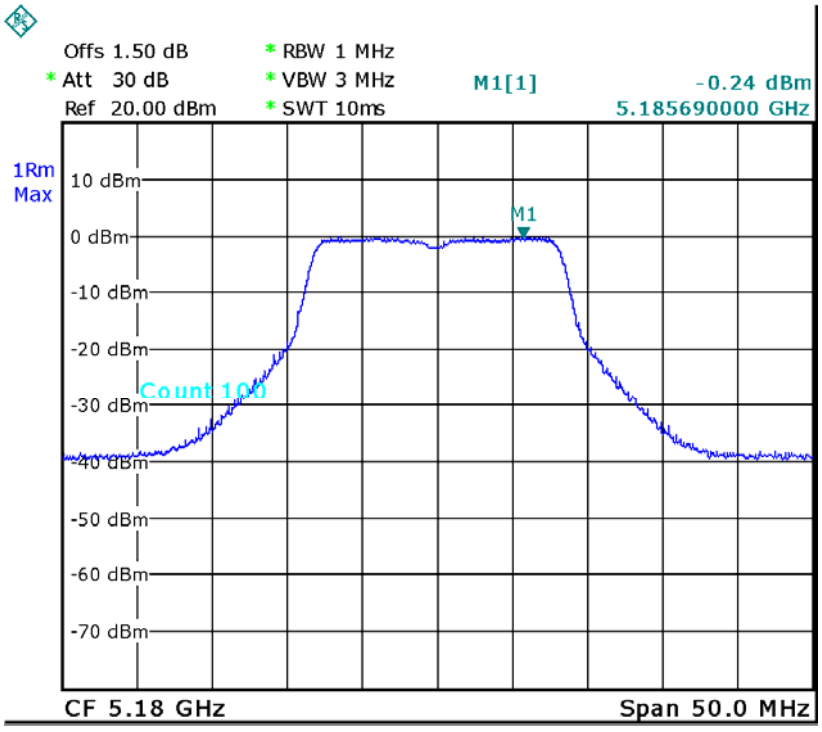
Date: 10.OCT.2012 19:57:31

CH48-ANT 1



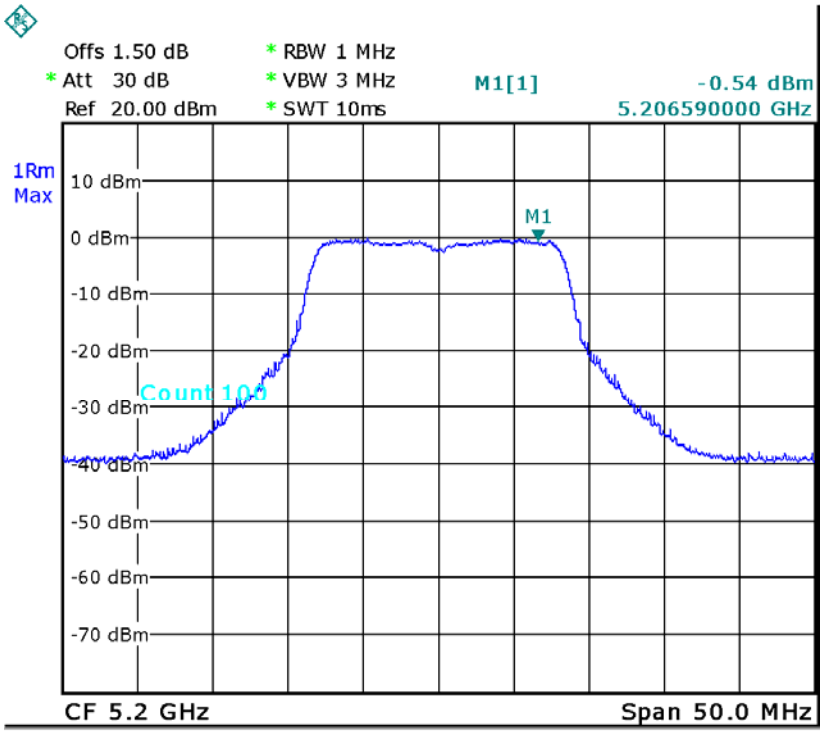
Date: 10.OCT.2012 19:51:21

CH36-ANT 2



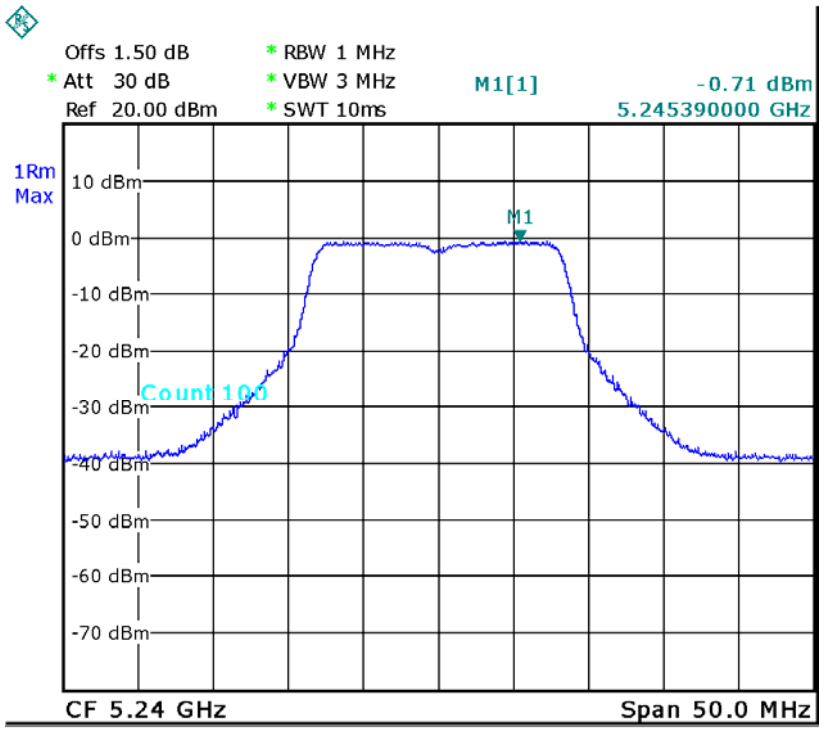
Date: 10.OCT.2012 20:01:07

CH40-ANT 2



Date: 10.OCT.2012 19:57:59

CH48-ANT 2



Date: 10.OCT.2012 19:51:48

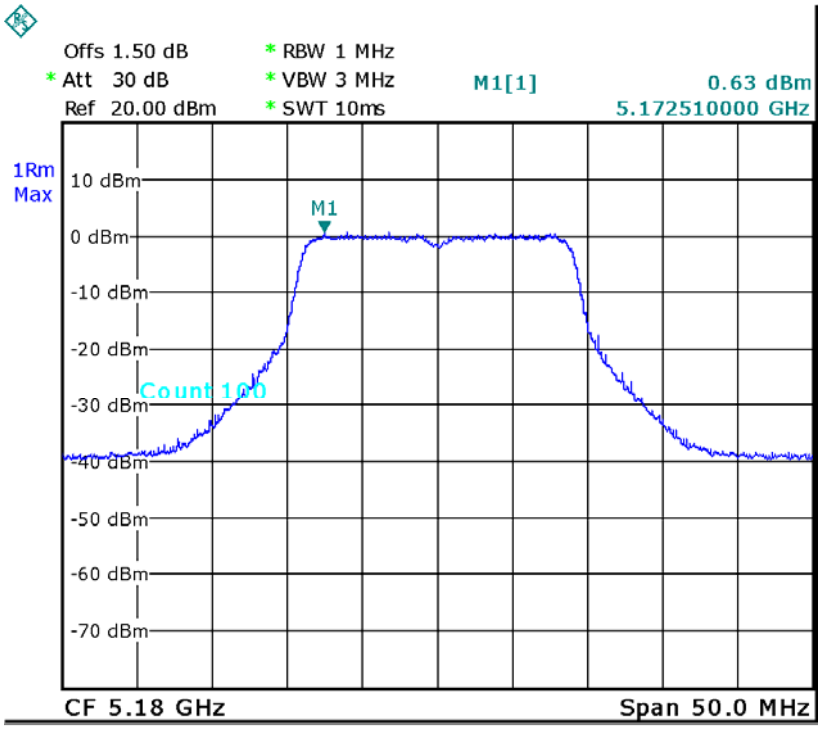
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/CH36, CH40, CH48 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	0.63	4.00
CH40	5210	0.80	4.00
CH48	5240	0.43	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	0.35	4.00
CH40	5210	0.17	4.00
CH48	5240	0.25	4.00

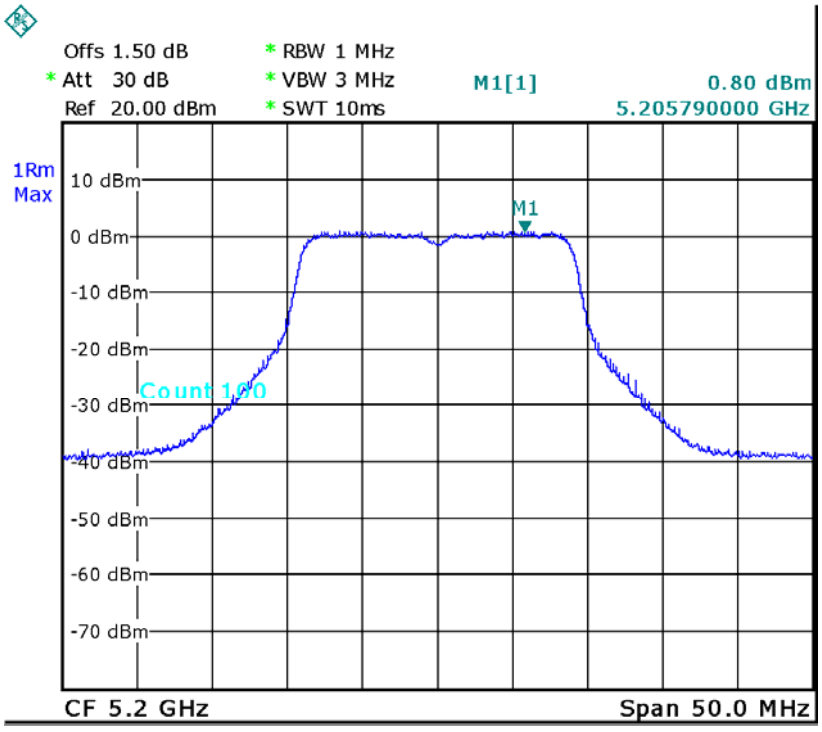
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	3.50	4.00
CH40	5210	3.51	4.00
CH48	5240	3.35	4.00

CH36-ANT 1



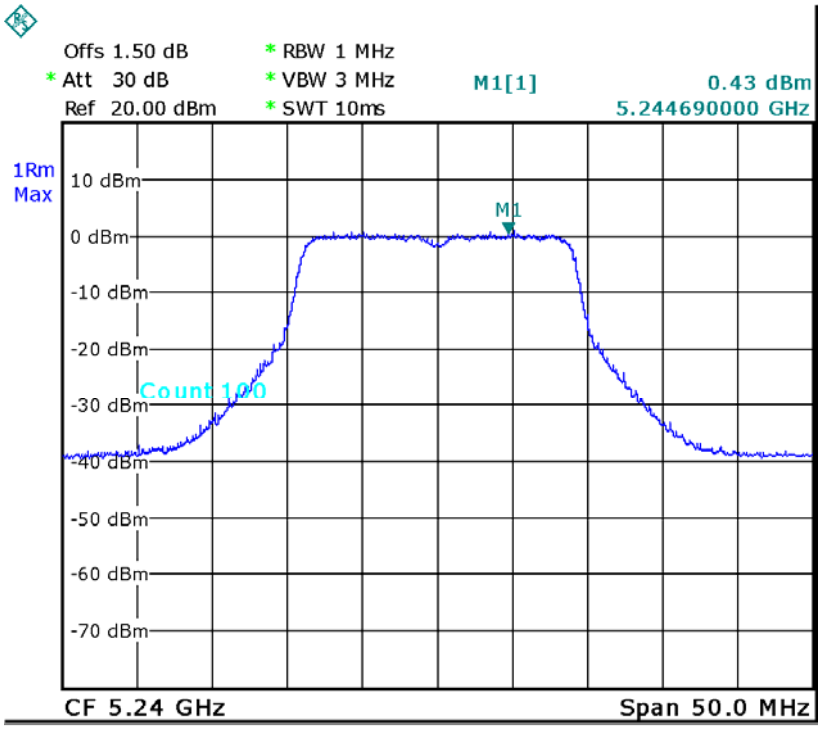
Date: 19.SEP.2012 18:44:31

CH40-ANT 1



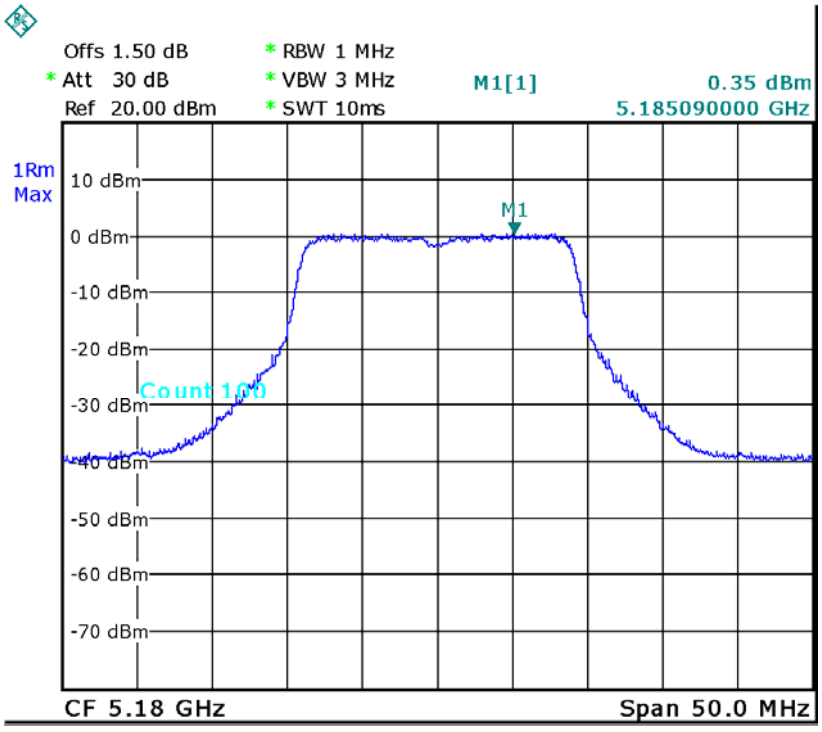
Date: 19.SEP.2012 18:47:30

CH48-ANT 1



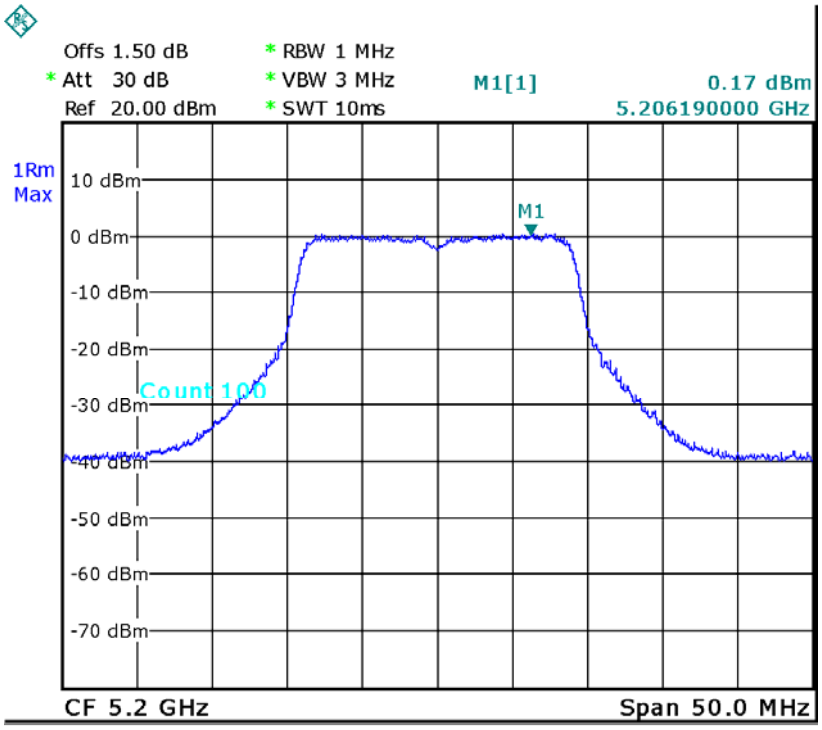
Date: 19.SEP.2012 18:49:35

CH36-ANT 2



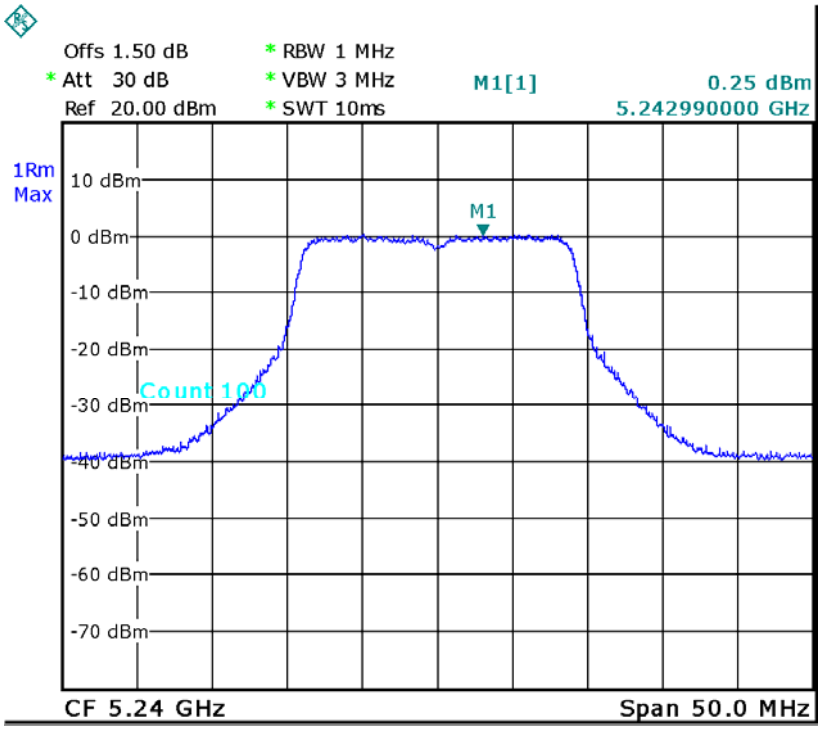
Date: 19.SEP.2012 18:41:06

CH40-ANT 2



Date: 19.SEP.2012 18:40:15

CH48-ANT 2



Date: 19.SEP.2012 18:35:21

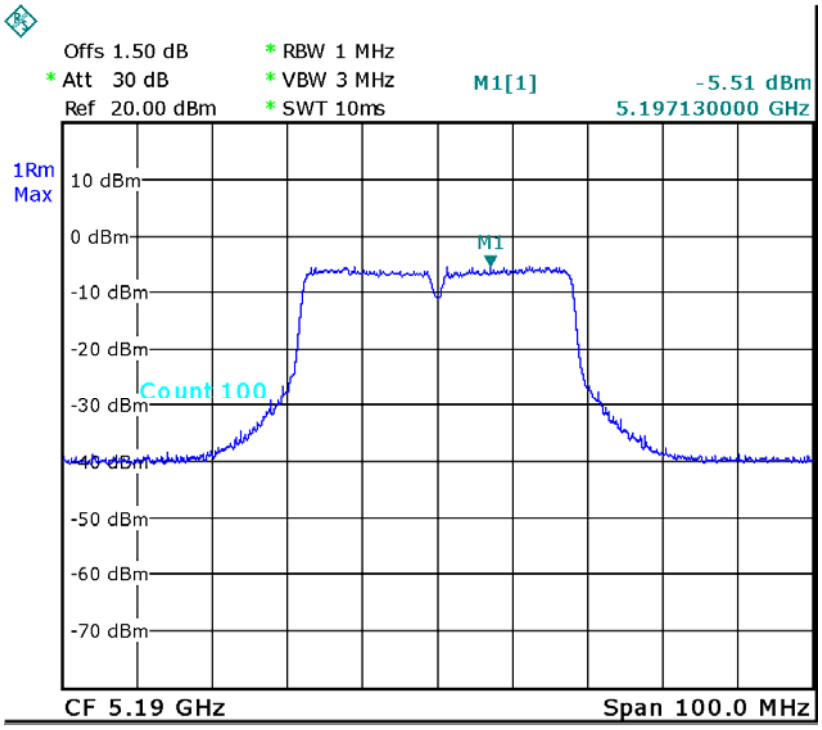
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/CH38, CH46 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-5.51	4.00
CH46	5230	-2.48	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-5.16	4.00
CH46	5230	-2.73	4.00

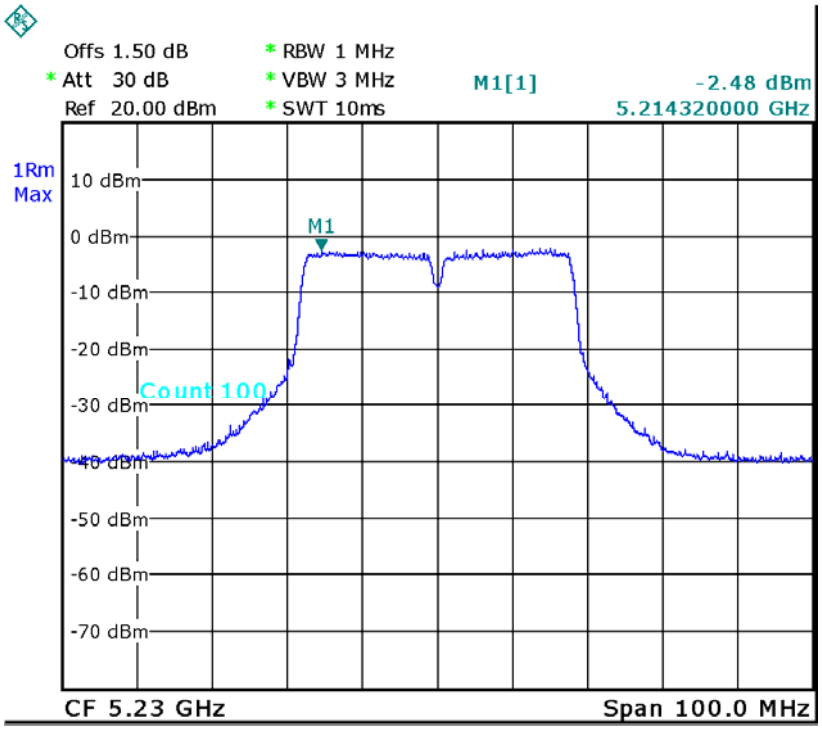
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-2.32	4.00
CH46	5230	0.41	4.00

CH38-ANT 1



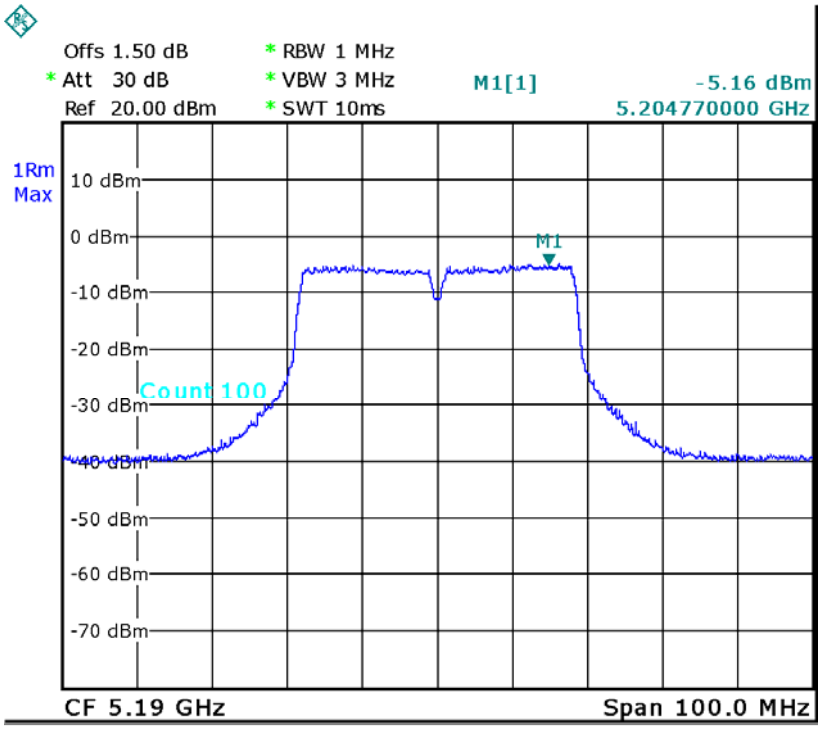
Date: 21.SEP.2012 15:25:47

CH46-ANT 1



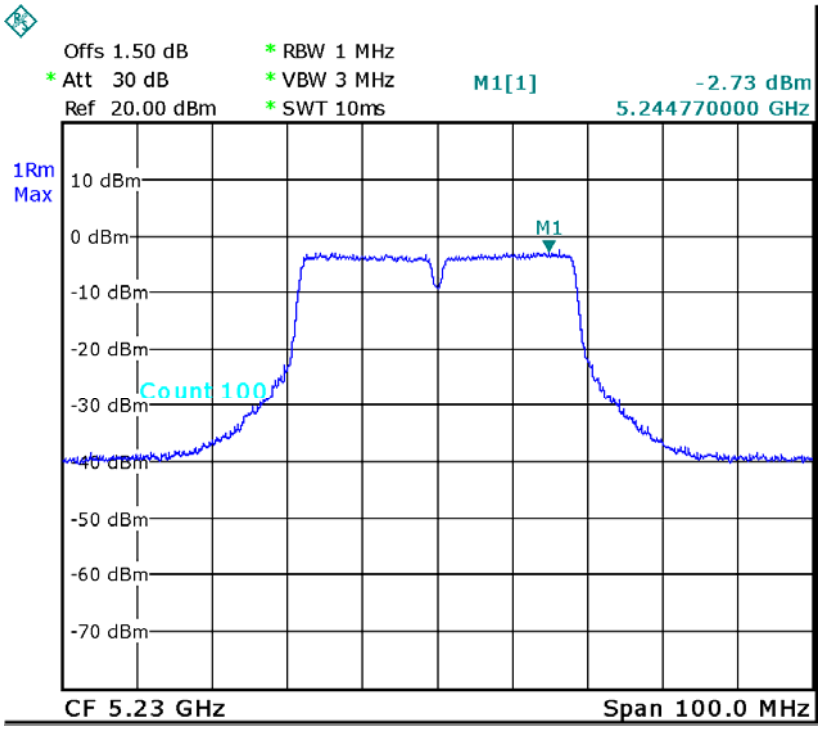
Date: 21.SEP.2012 15:27:05

CH38-ANT 2



Date: 21.SEP.2012 16:25:57

CH46-ANT 2



Date: 21.SEP.2012 16:22:49

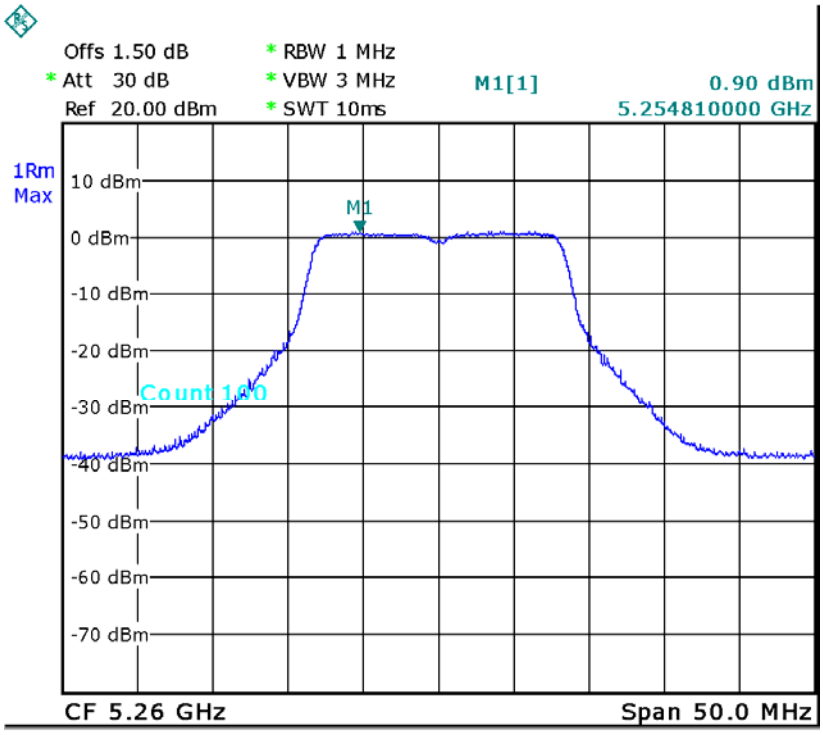
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/CH52, CH56, CH64 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.77	11
CH56	5280	1.63	11
CH64	5320	0.90	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	0.70	11
CH56	5280	1.58	11
CH64	5320	1.78	11

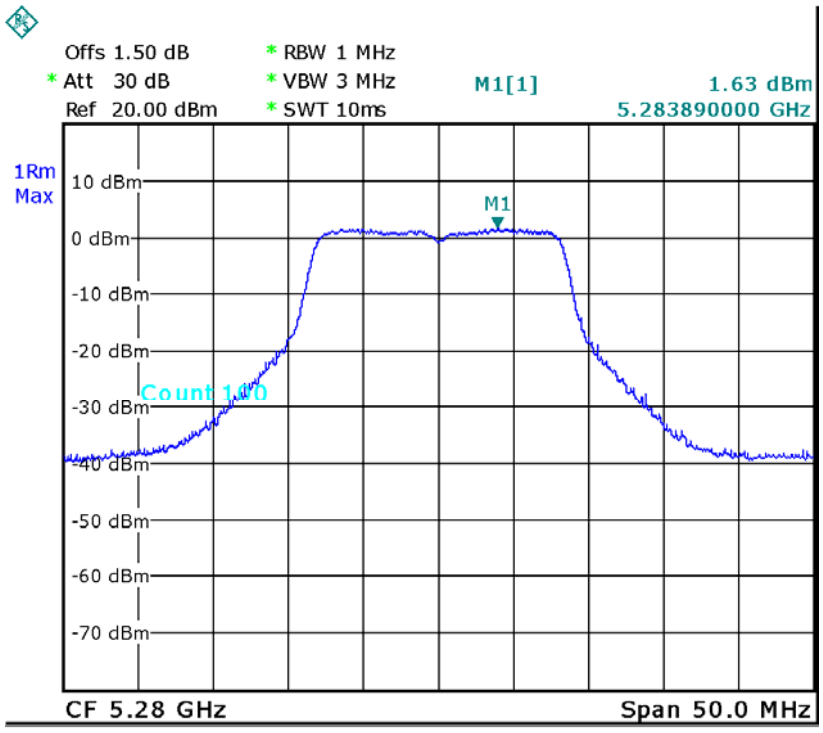
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	4.28	11
CH56	5280	4.62	11
CH64	5320	4.37	11

CH52-ANT 1



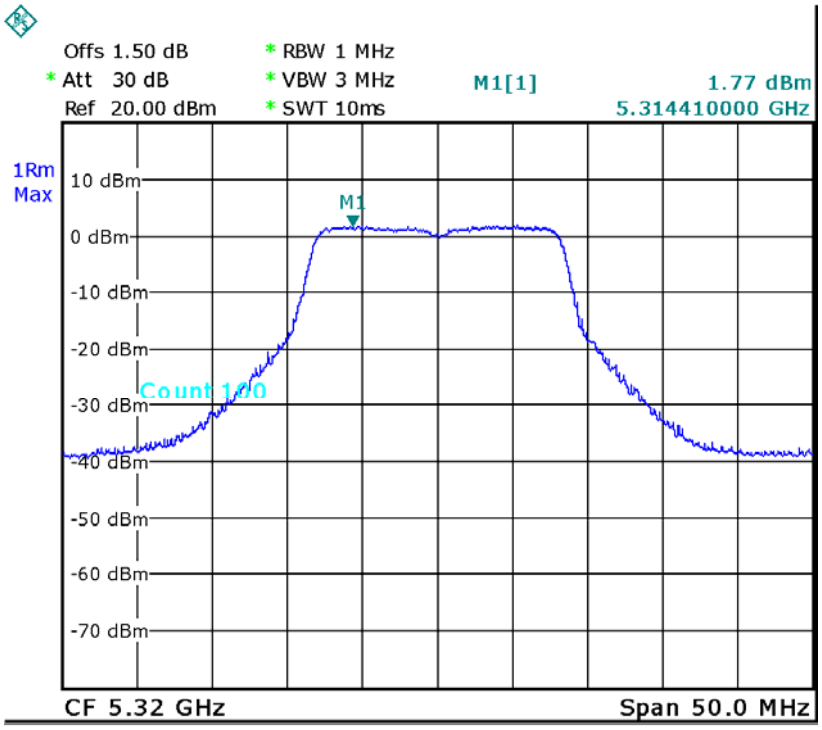
Date: 10.OCT.2012 19:49:30

CH56-ANT 1



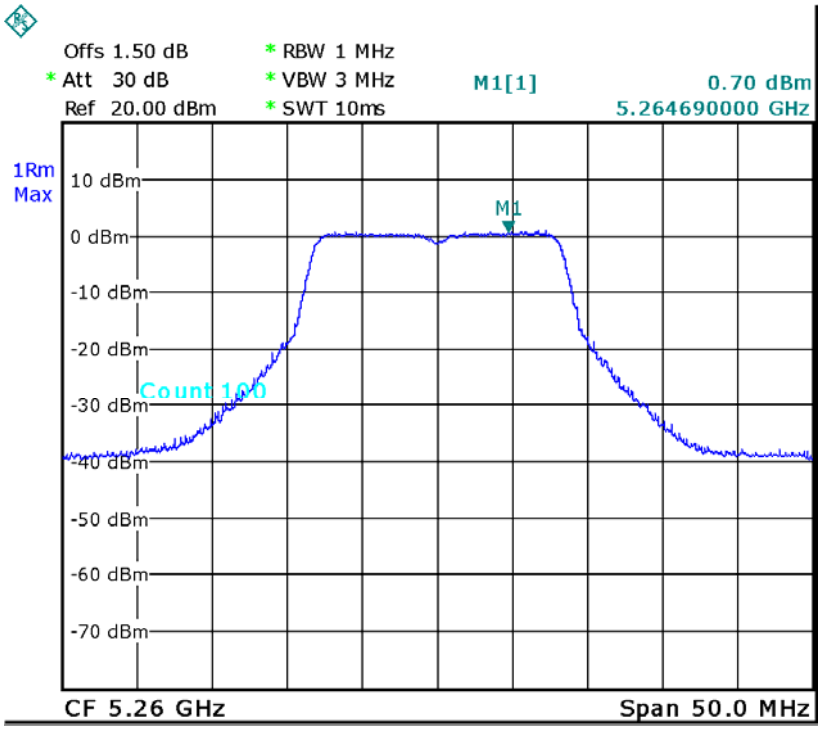
Date: 10.OCT.2012 19:45:44

CH64-ANT 1



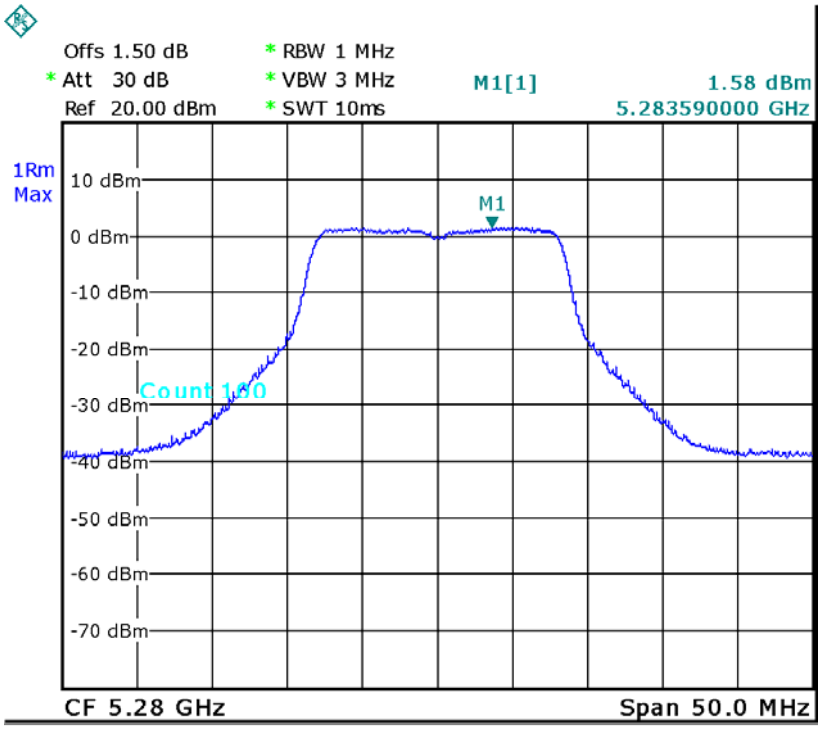
Date: 10.OCT.2012 19:44:12

CH52-ANT 2



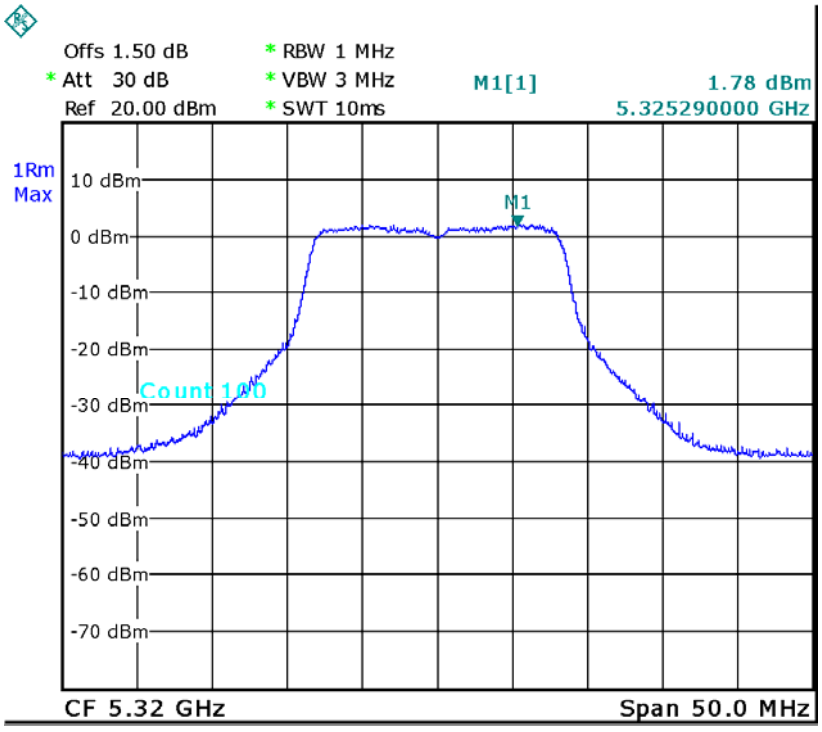
Date: 10.OCT.2012 19:48:59

CH56-ANT 2



Date: 10.OCT.2012 19:46:13

CH64-ANT 2



Date: 10.OCT.2012 19:43:35

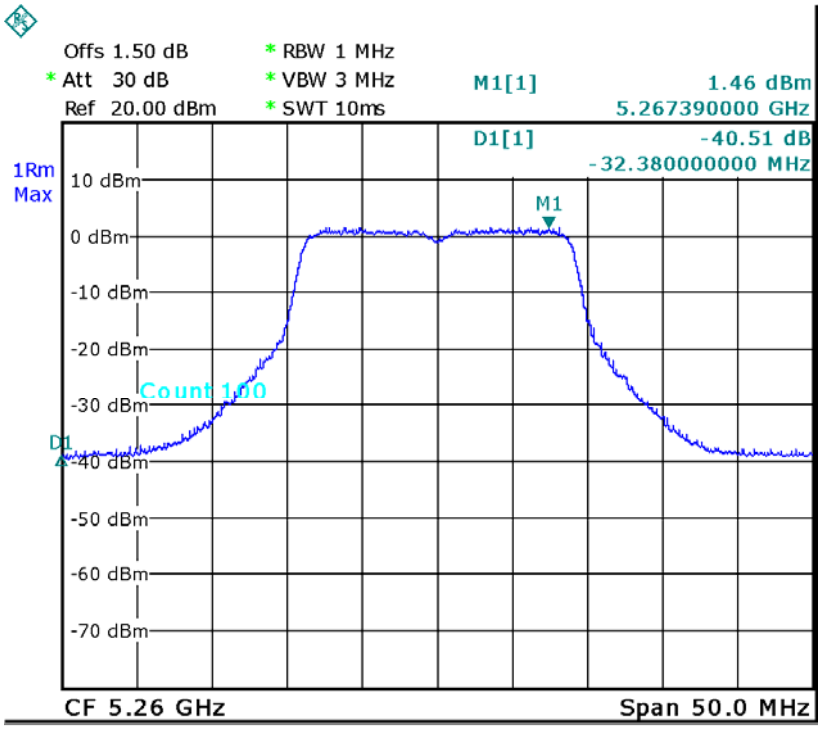
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/CH52, CH56, CH64 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.01	11
CH56	5280	1.46	11
CH64	5320	2.64	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.63	11
CH56	5280	1.23	11
CH64	5320	1.85	11

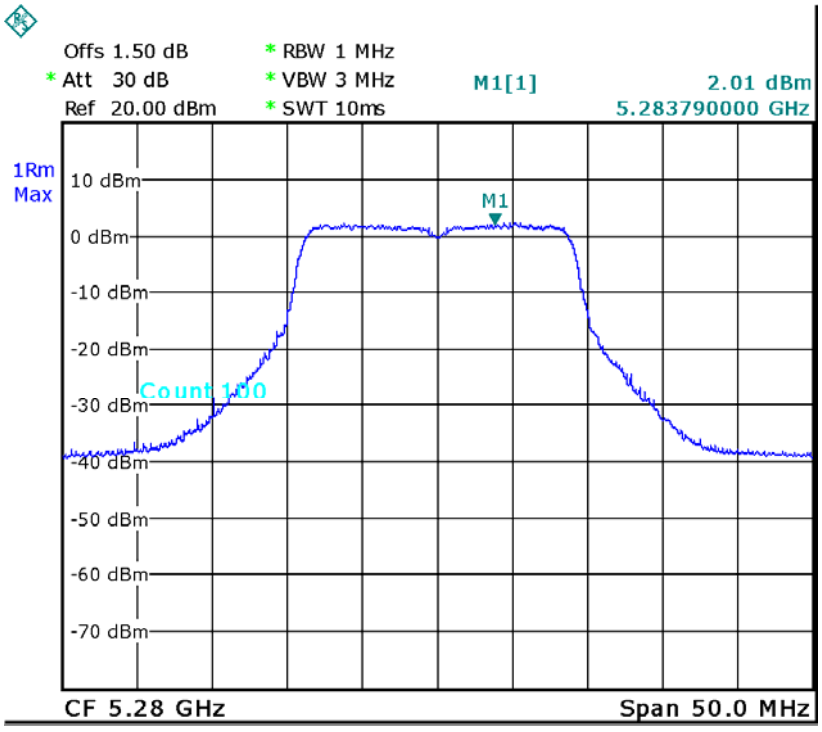
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	4.83	11
CH56	5280	4.36	11
CH64	5320	5.27	11

CH52-ANT 1



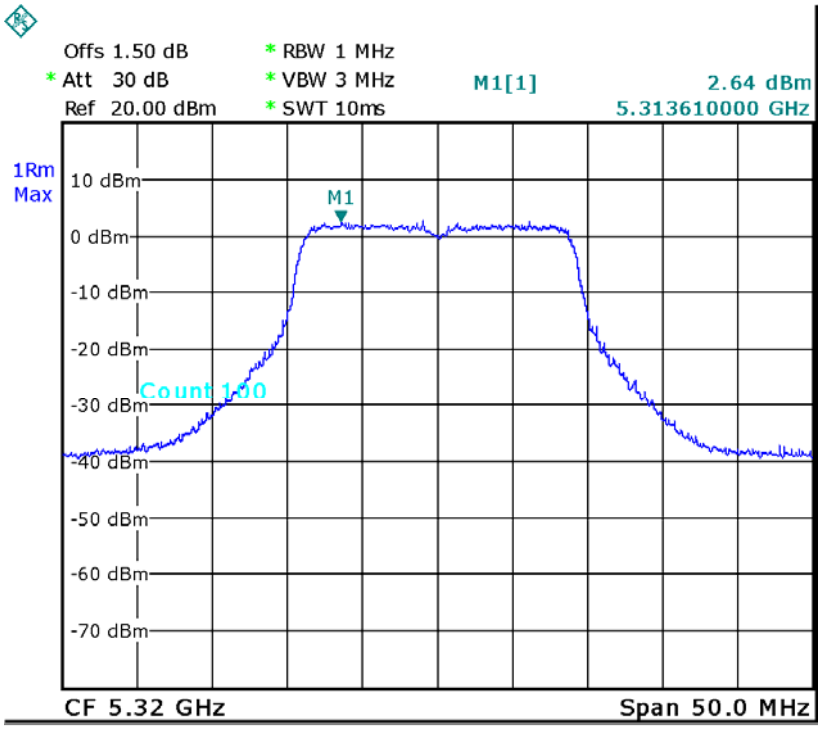
Date: 19.SEP.2012 18:54:49

CH56-ANT 1



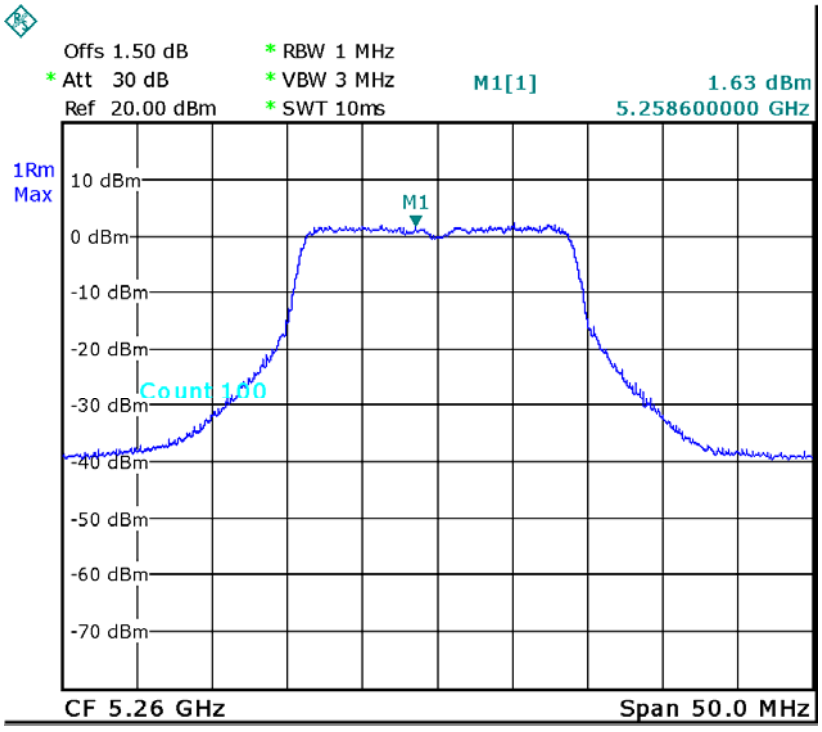
Date: 19.SEP.2012 18:57:42

CH64-ANT 1



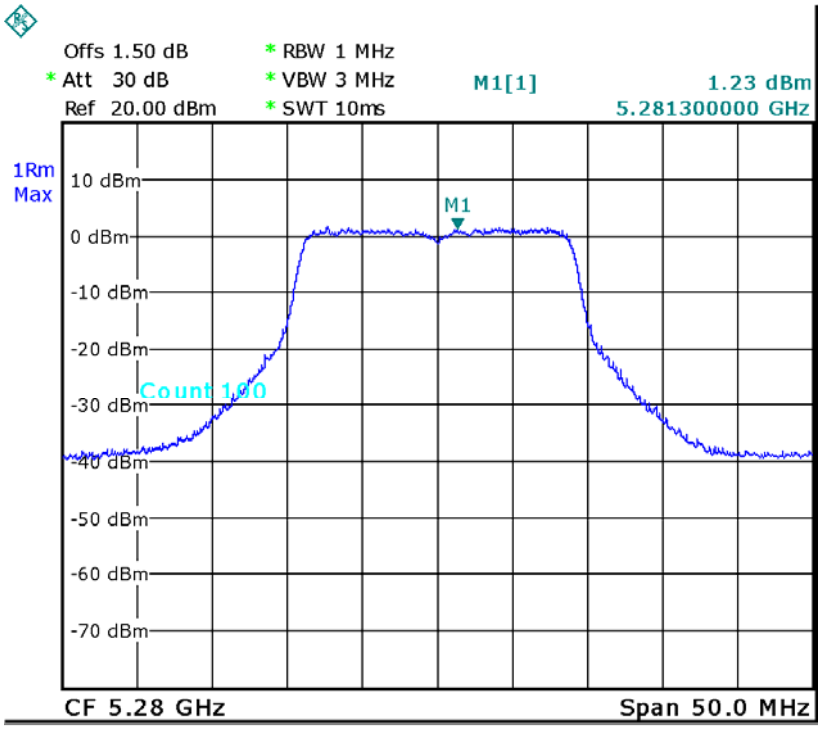
Date: 19.SEP.2012 18:59:12

CH52-ANT 2



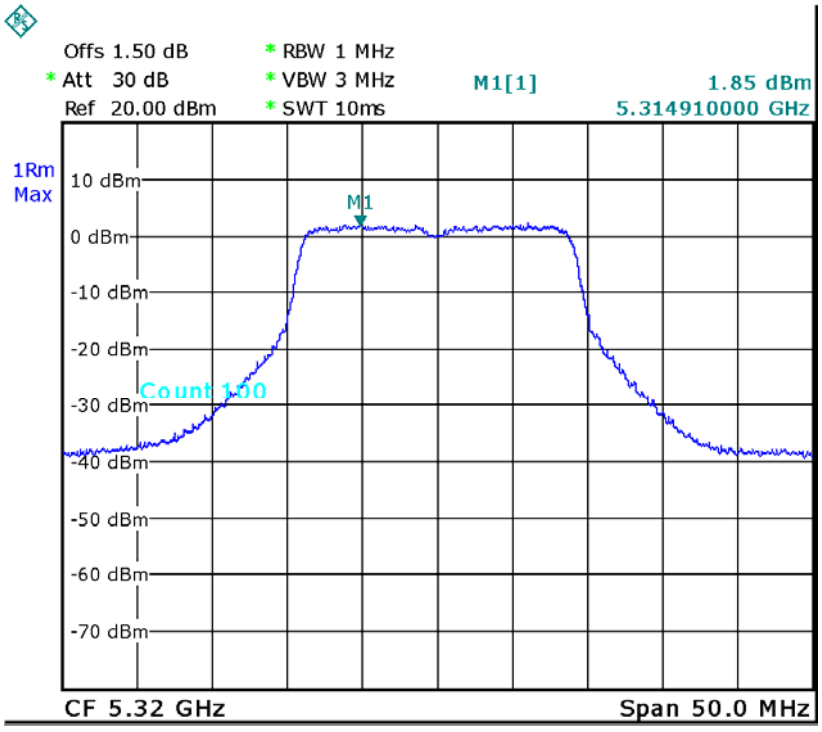
Date: 19.SEP.2012 18:33:16

CH56-ANT 2



Date: 19.SEP.2012 18:32:24

CH64-ANT 2



Date: 19.SEP.2012 18:30:56

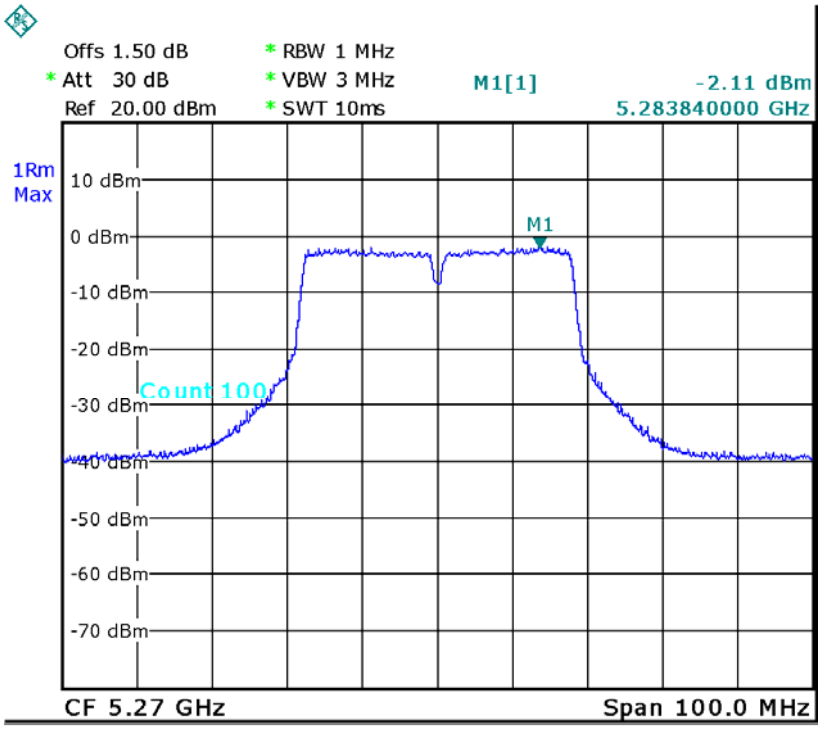
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/CH54, CH62 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-2.11	11
CH62	5310	-3.41	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-2.48	11
CH62	5310	-5.00	11

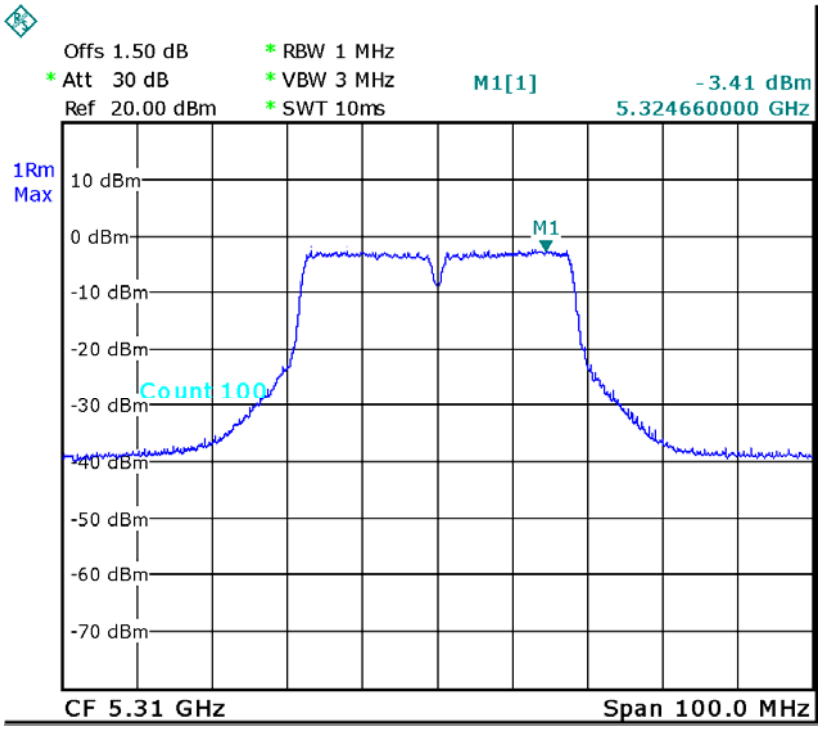
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	0.72	11
CH62	5310	-1.12	11

CH54-ANT 1



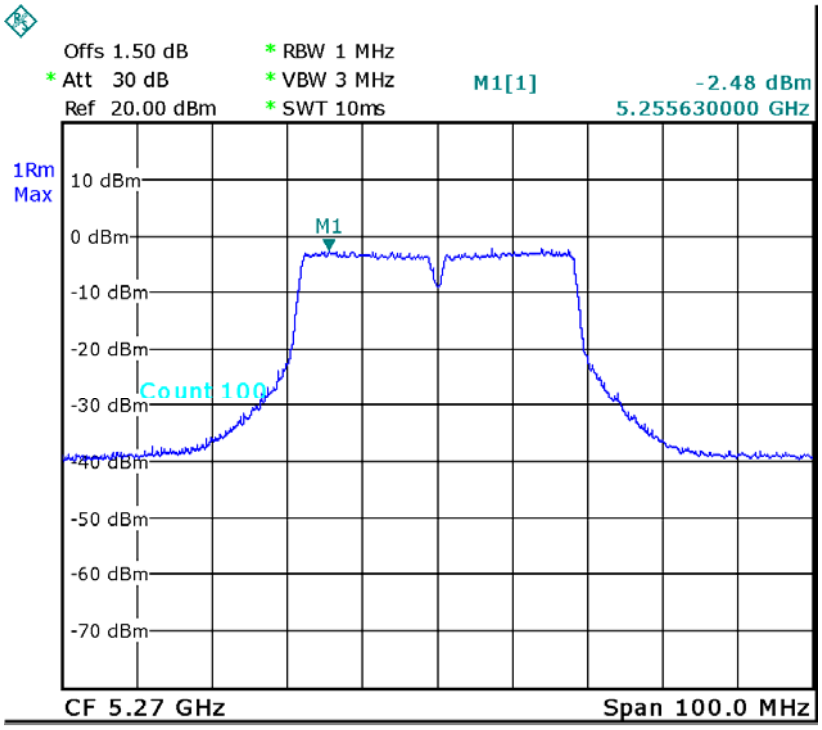
Date: 21.SEP.2012 15:33:15

CH62-ANT 1



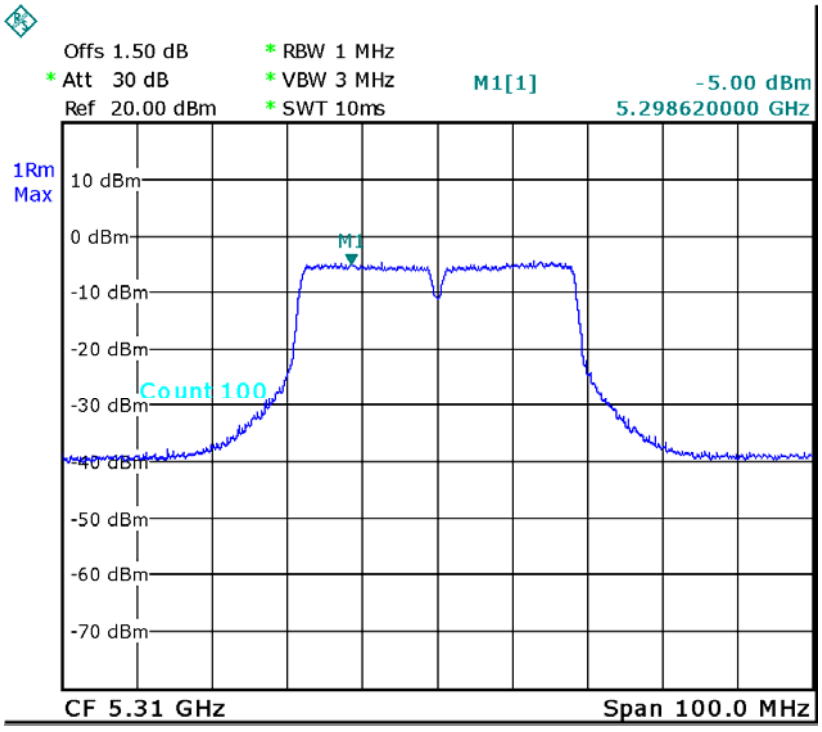
Date: 21.SEP.2012 15:37:03

CH54-ANT 2



Date: 21.SEP.2012 16:20:18

CH62-ANT 2



Date: 21.SEP.2012 16:07:07

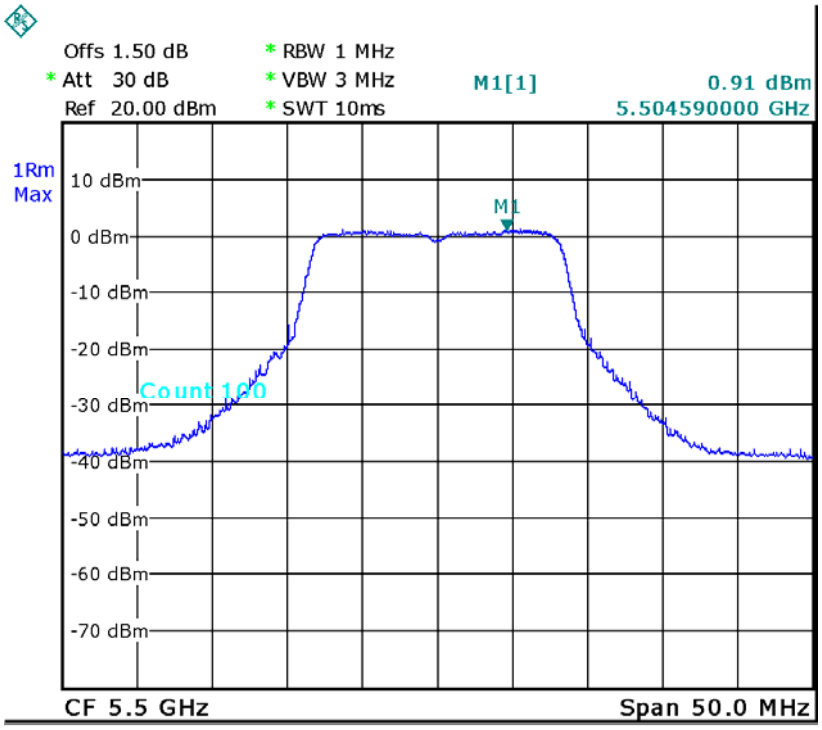
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/CH100, CH116, CH140 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	0.91	11
CH116	5580	2.12	11
CH140	5700	0.66	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	0.50	11
CH116	5580	1.94	11
CH140	5700	0.72	11

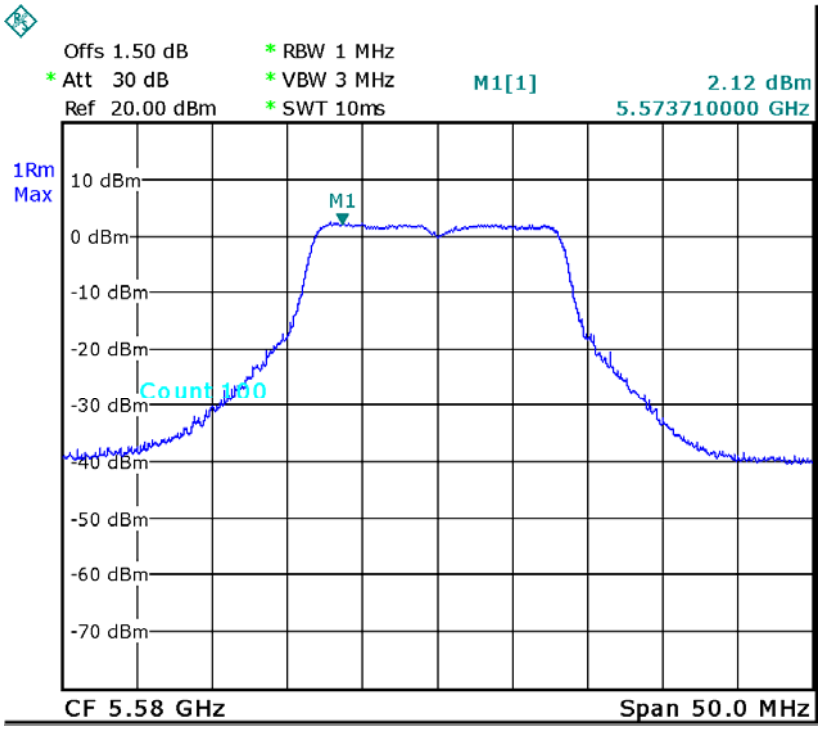
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	3.72	11
CH116	5580	5.04	11
CH140	5700	3.70	11

CH100-ANT 1



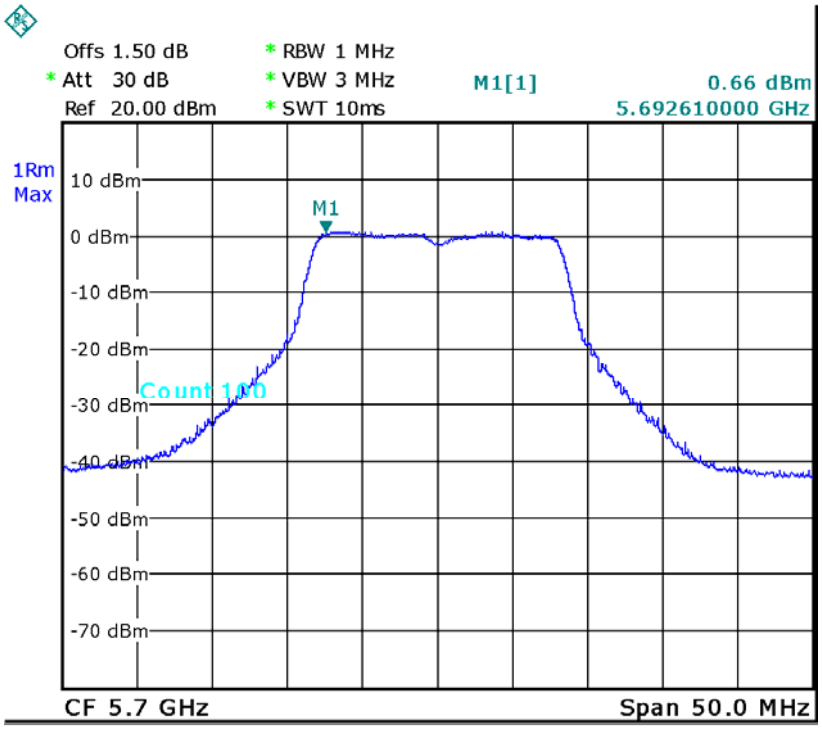
Date: 10.OCT.2012 19:41:09

CH116-ANT 1



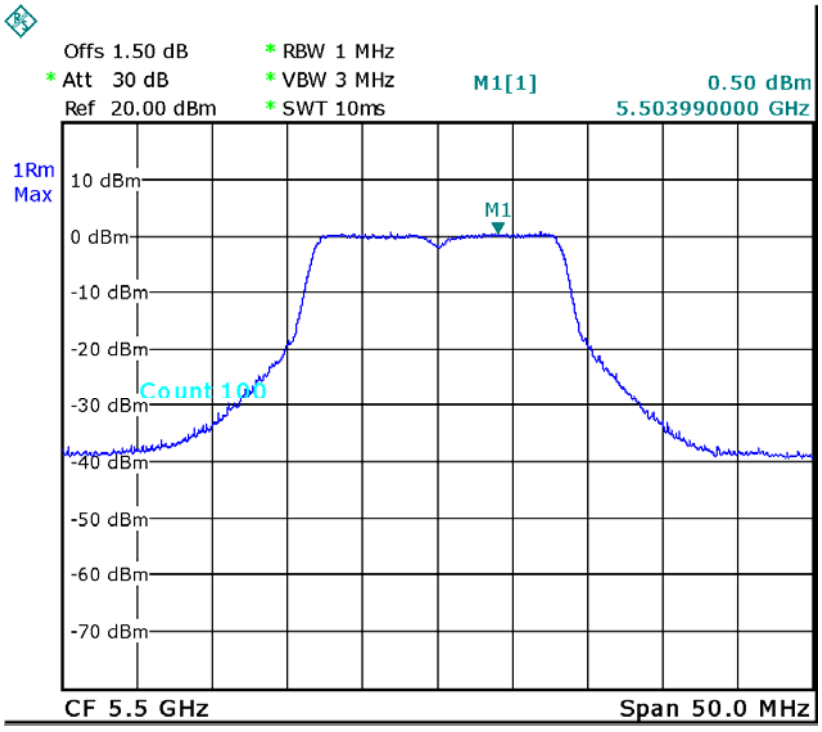
Date: 10.OCT.2012 19:36:34

CH140-ANT 1



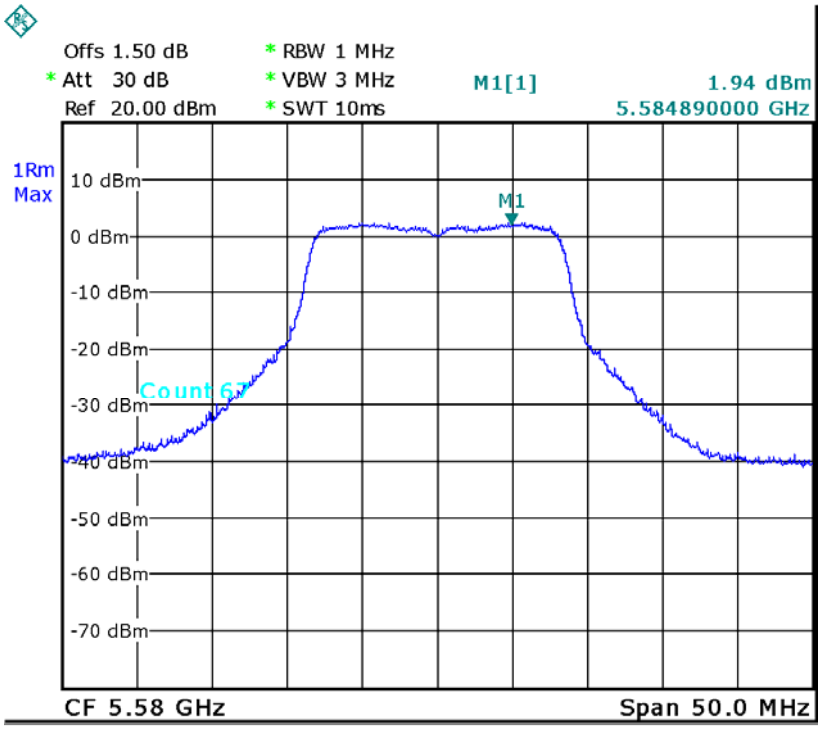
Date: 10.OCT.2012 19:29:46

CH100-ANT 2



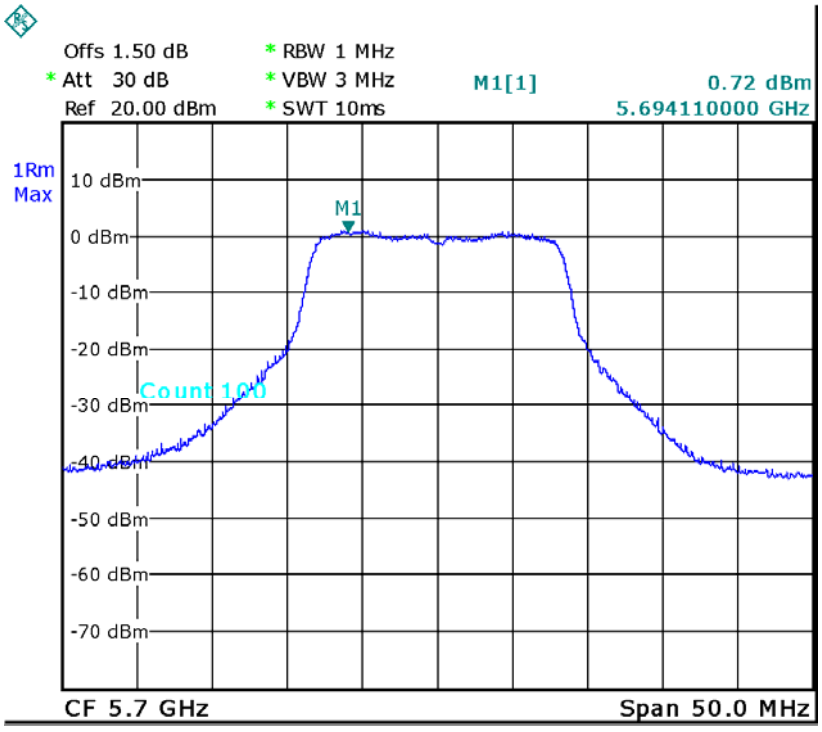
Date: 10.OCT.2012 19:42:17

CH116-ANT 2



Date: 10.OCT.2012 19:36:08

CH140-ANT 2



Date: 10.OCT.2012 19:31:03

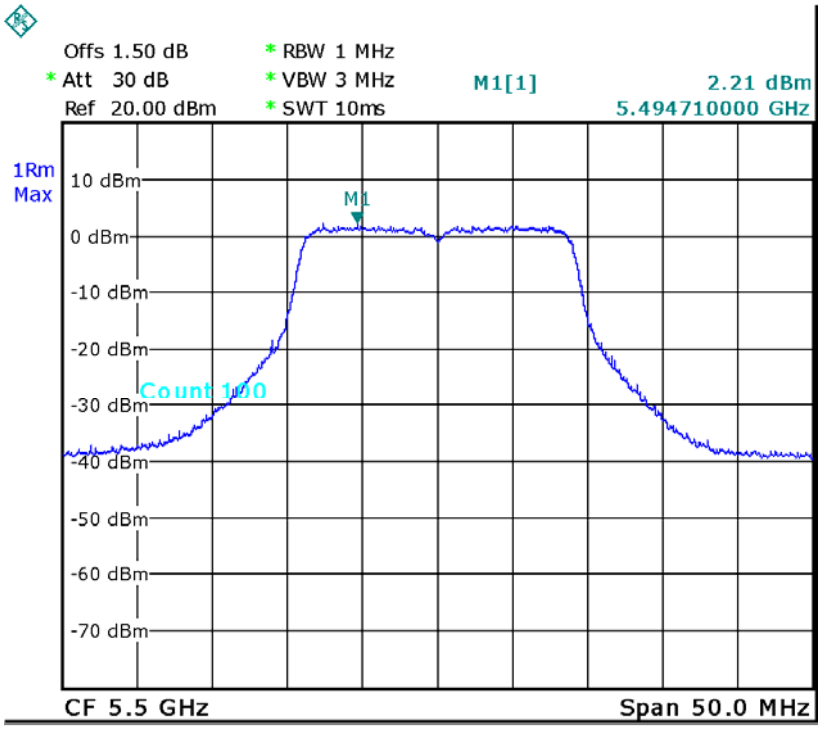
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	2.21	11
CH116	5580	2.42	11
CH140	5700	1.98	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	1.50	11
CH116	5580	2.48	11
CH140	5700	0.95	11

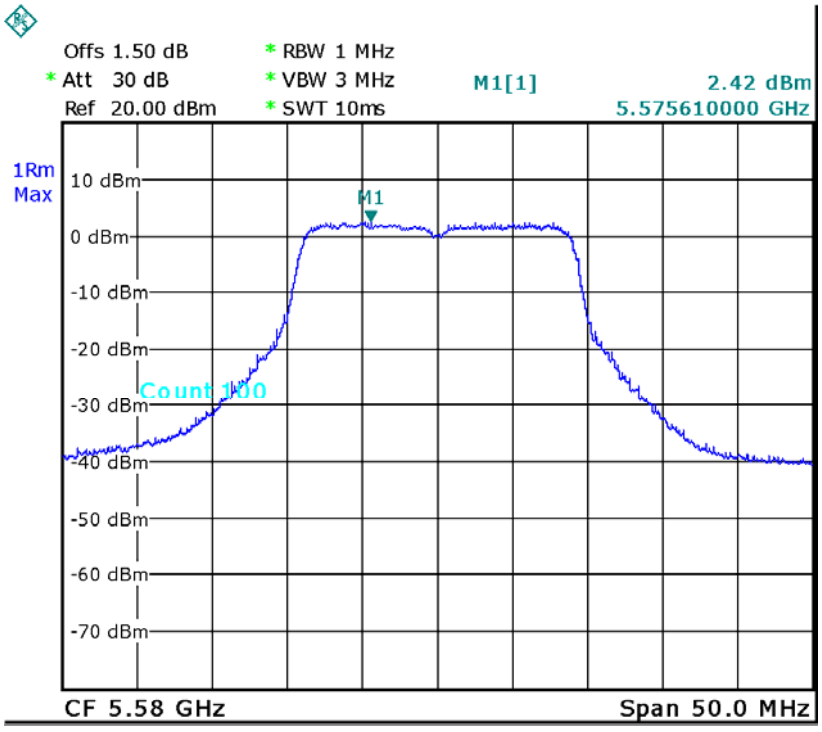
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	4.88	11
CH116	5580	5.46	11
CH140	5700	4.51	11

CH100-ANT 1



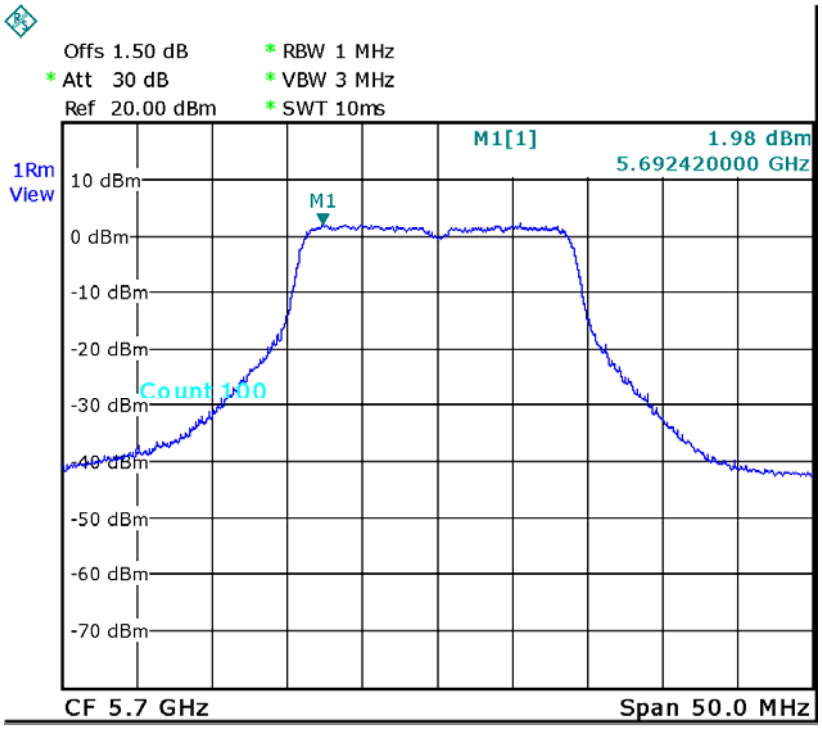
Date: 19.SEP.2012 19:00:39

CH116-ANT 1



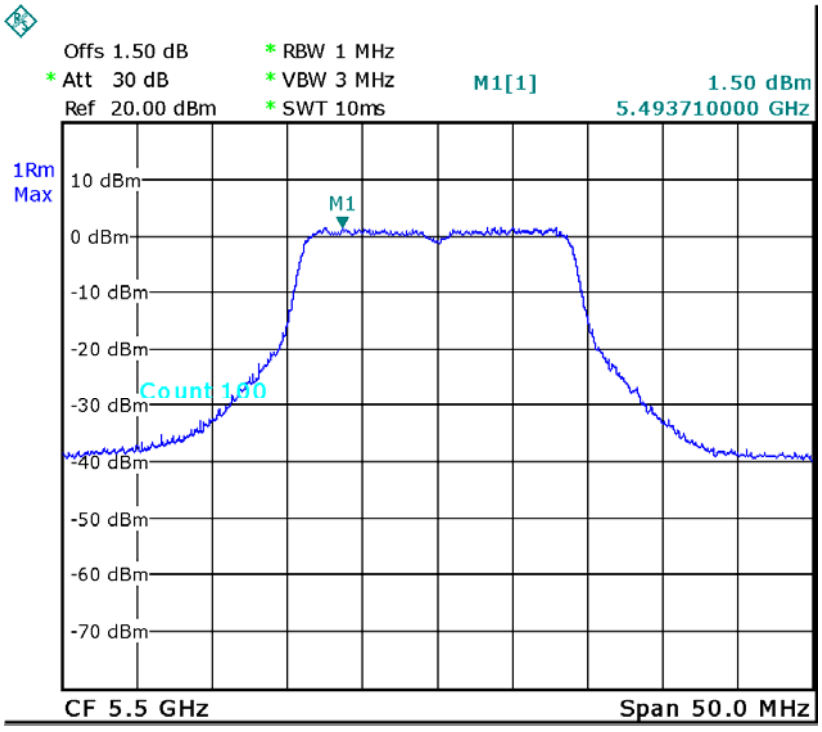
Date: 19.SEP.2012 19:02:21

CH140-ANT 1



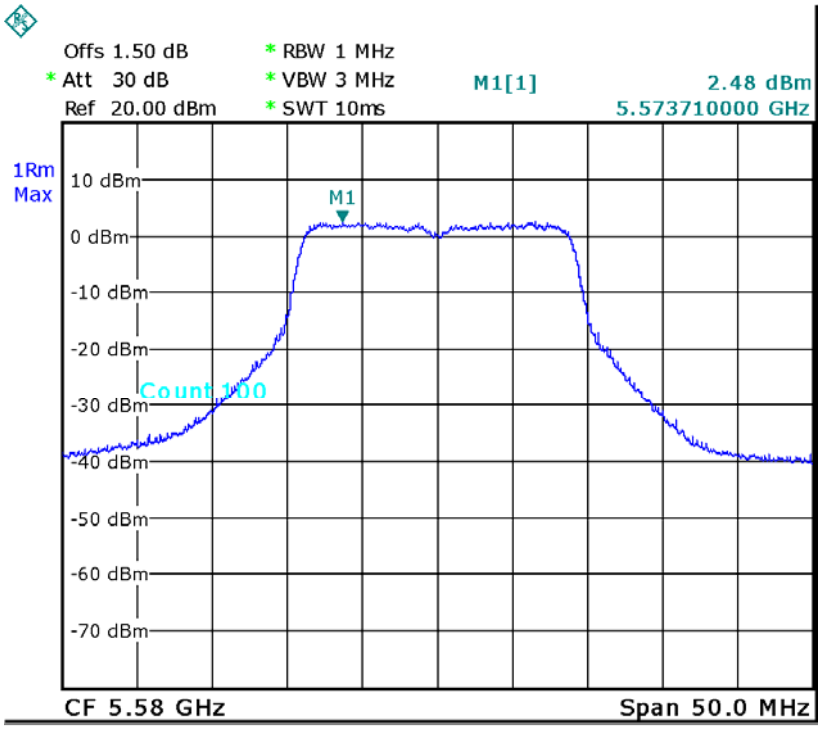
Date: 19.SEP.2012 19:05:11

CH100-ANT 2



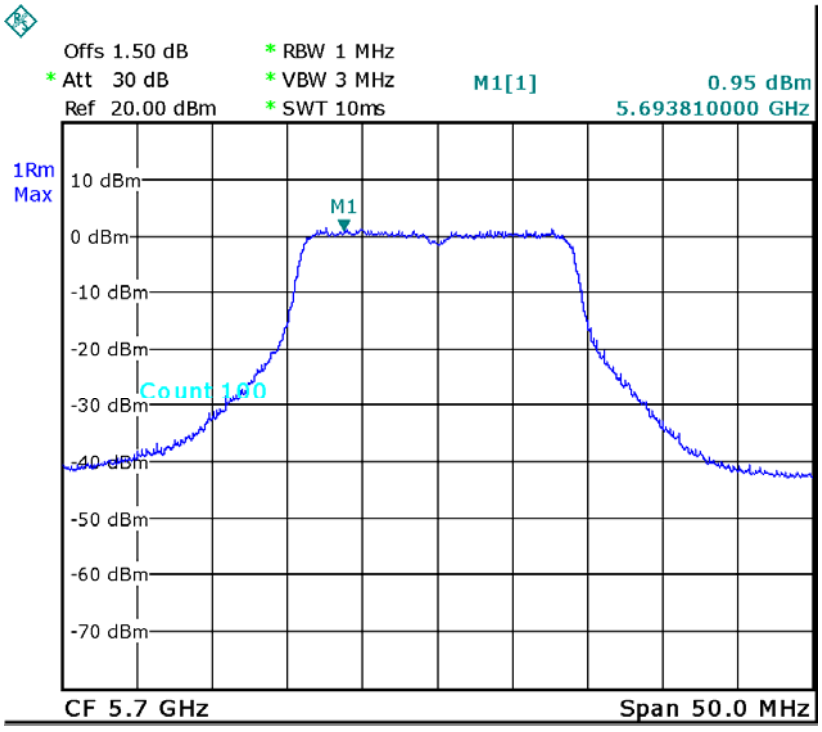
Date: 19.SEP.2012 18:28:58

CH116-ANT 2



Date: 19.SEP.2012 18:27:48

CH140-ANT 2



Date: 19.SEP.2012 18:25:23

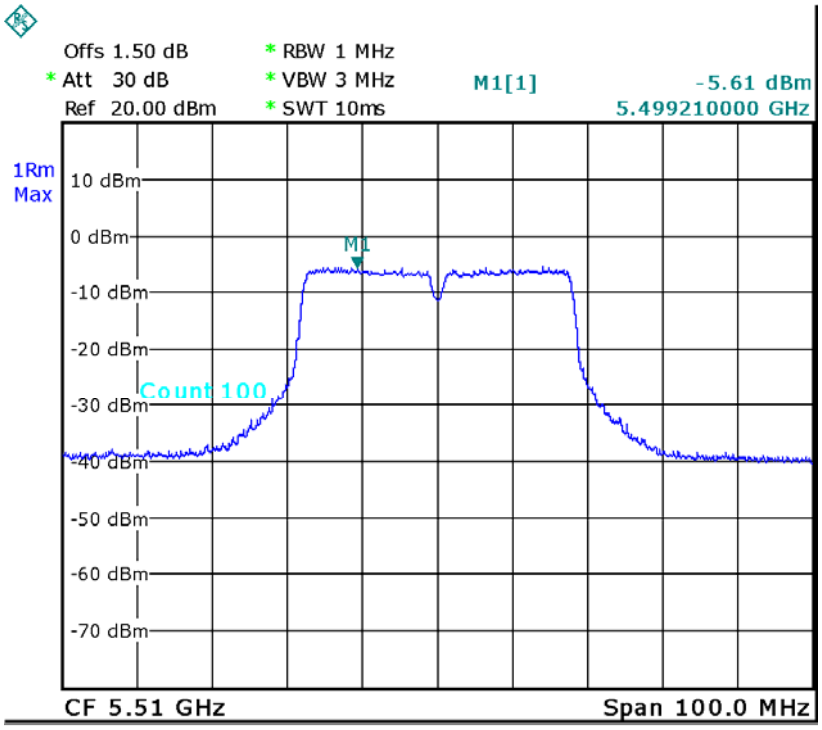
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 2TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-5.61	11
CH110	5550	-1.45	11
CH134	5670	-0.67	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-6.07	11
CH110	5550	-1.68	11
CH134	5670	-1.98	11

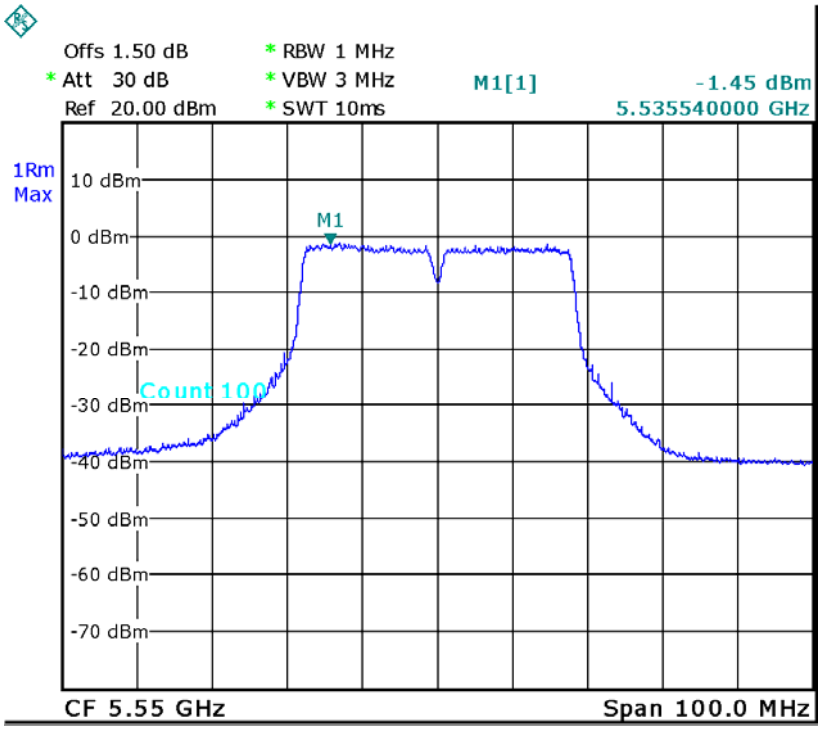
Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-2.82	11
CH110	5550	1.45	11
CH134	5670	1.73	11

CH102-ANT 1



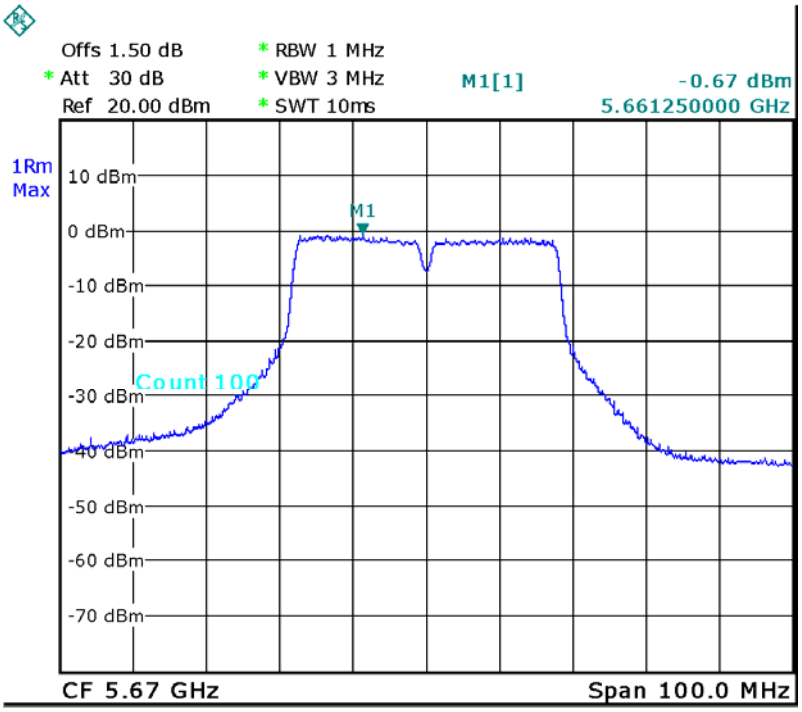
Date: 21.SEP.2012 15:38:46

CH110-ANT 1



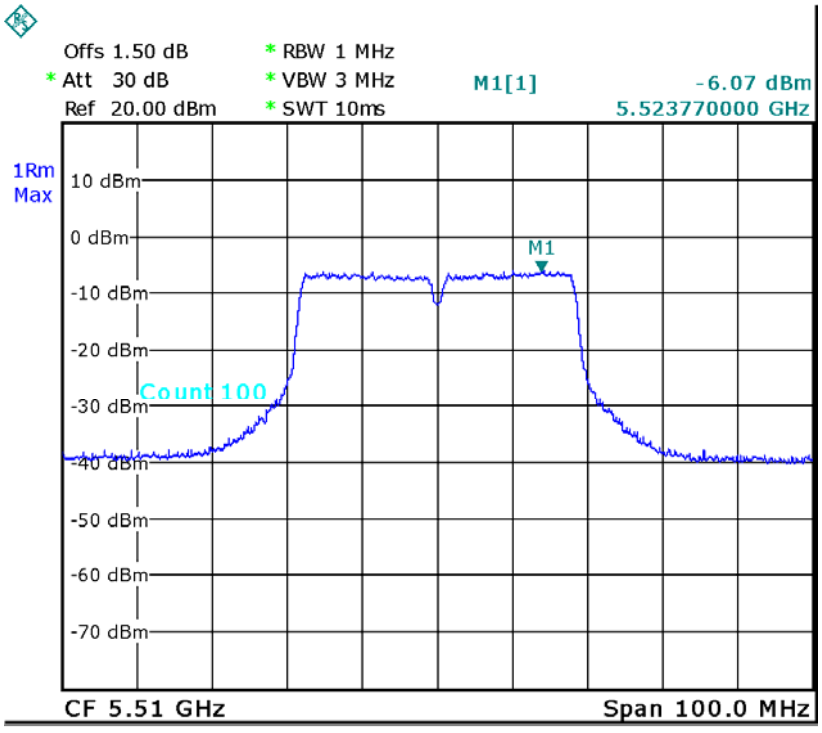
Date: 21.SEP.2012 15:41:52

CH134-ANT 1



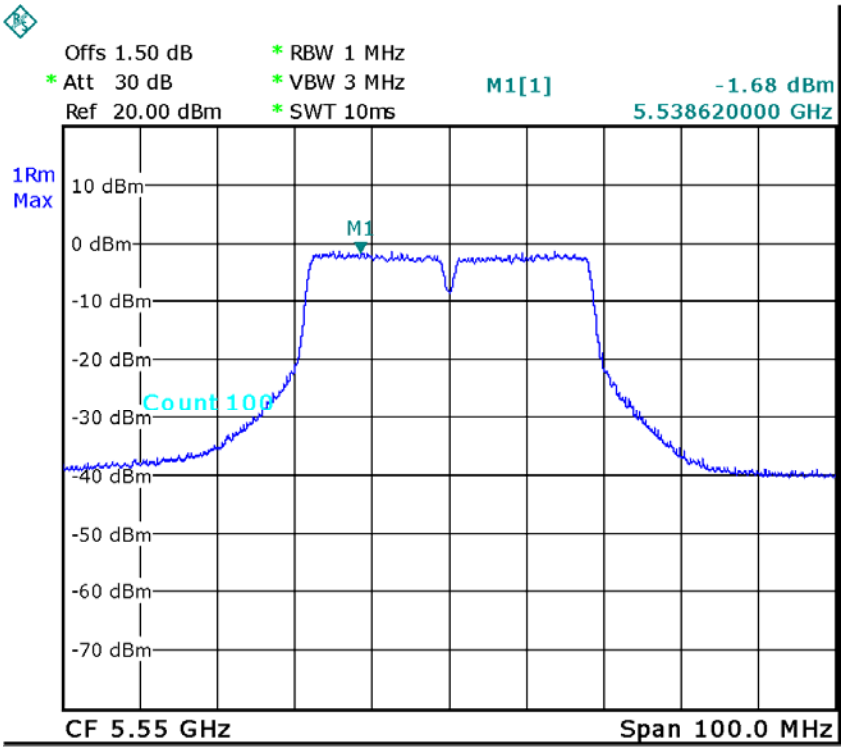
Date: 21.SEP.2012 15:44:41

CH102-ANT 2



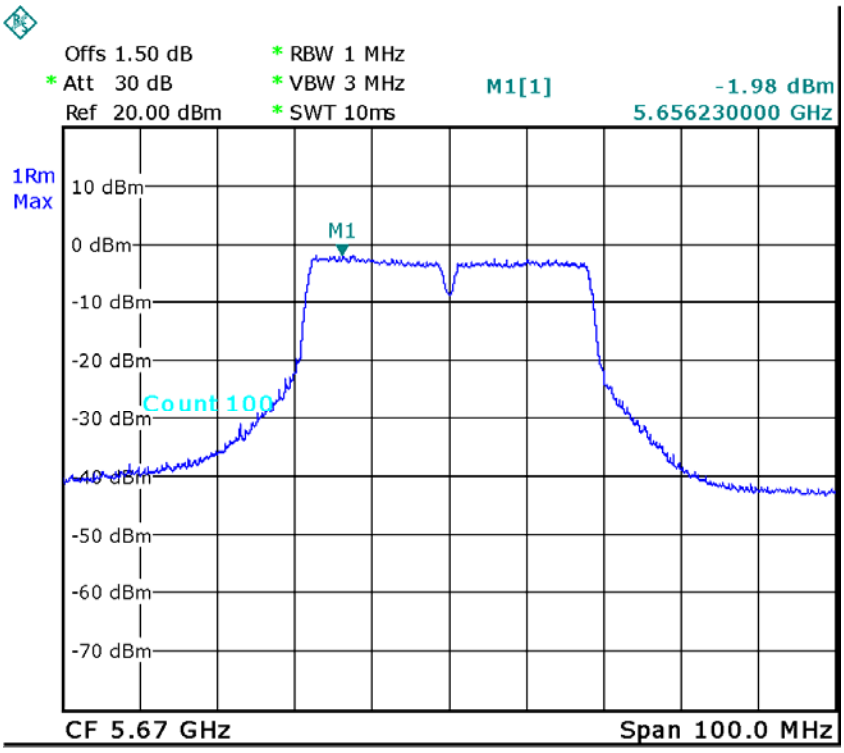
Date: 21.SEP.2012 15:53:40

CH110-ANT 2



Date: 21.SEP.2012 16:03:14

CH134-ANT 2



Date: 21.SEP.2012 15:55:50

9. PEAK EXCURSION MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Peak Excursion Measurement	13 dB	5150 - 5250	PASS
		5250 - 5350	PASS
		5470 - 5725	PASS

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2011	Nov.26.2012

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

9.1.2 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 Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)
VB	3000 kHz (Peak Trace) / 3000 kHz (Average Trace)
Detector	Peak (Peak Trace) / RMS (Average Trace)
Trace	Max Hold
Sweep Time	60s

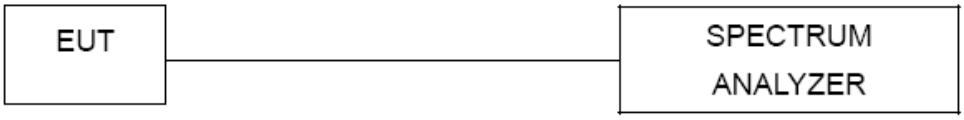
c. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and maxhold settings.

d. Average Trace: set RBW = 1 MHz, VBW = 3 MHz with RMS detector and trace average across 100 traces in power averaging mode.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

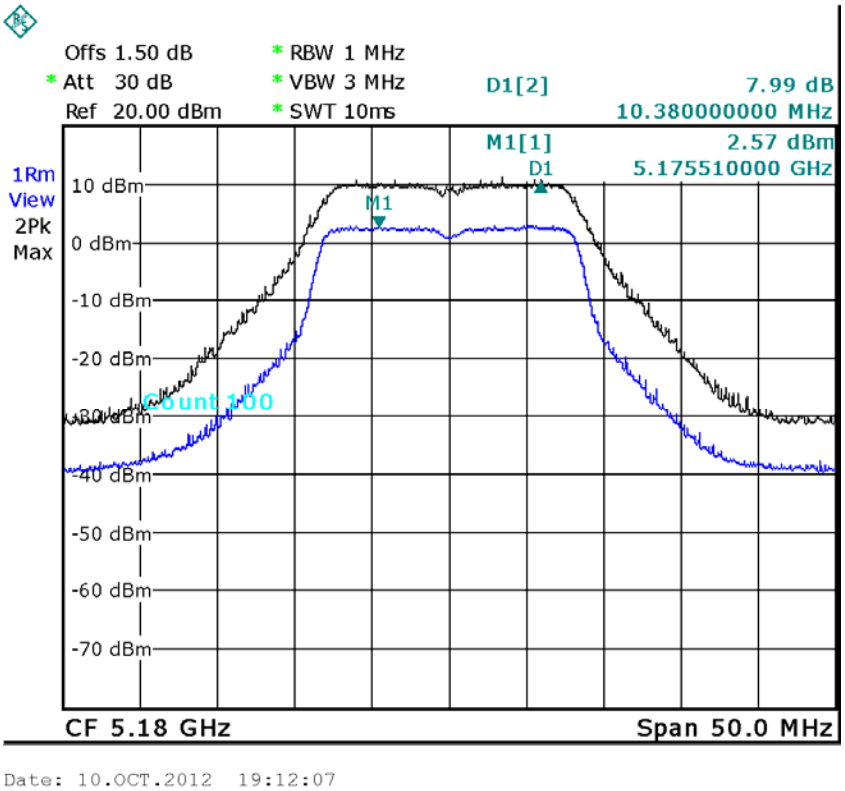
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

9.1.6 TEST RESULTS

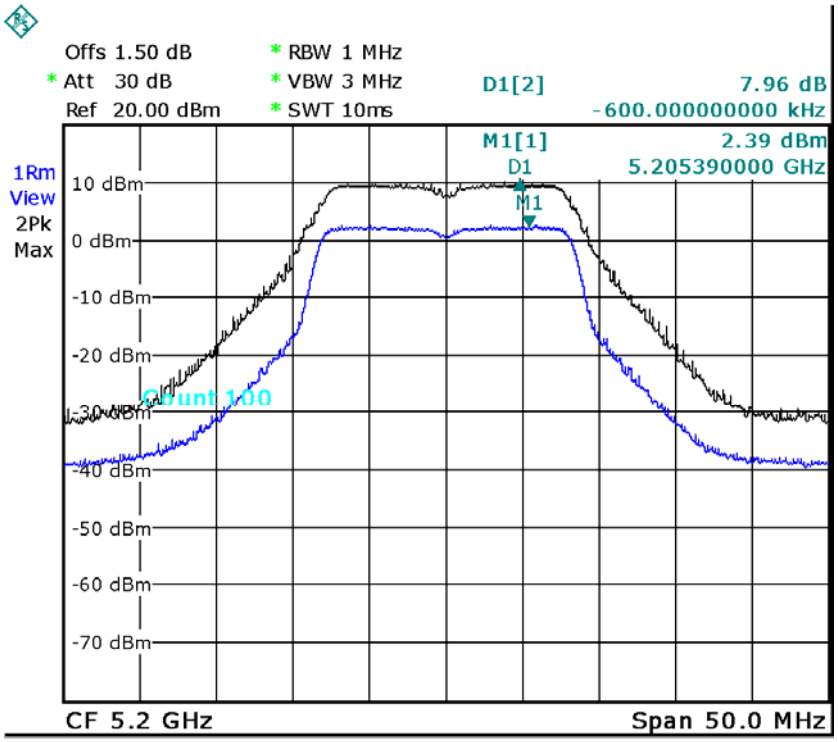
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX A Mode/CH36, CH40, CH48		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH36	5180	7.99	13
CH40	5210	7.96	13
CH48	5240	8.13	13

CH36

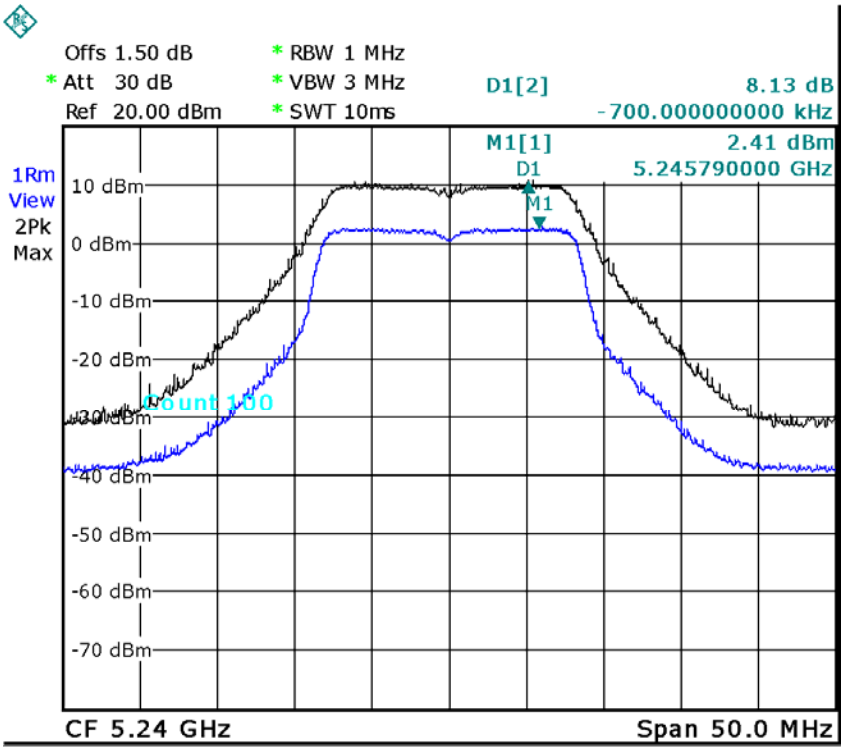


CH40



Date: 10.OCT.2012 19:13:59

CH48

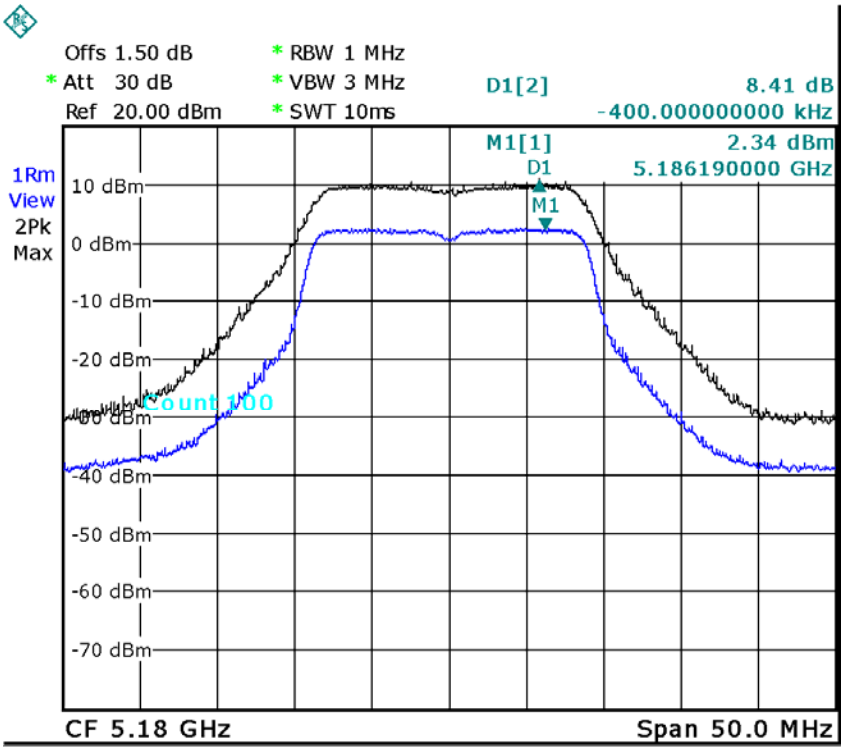


Date: 10.OCT.2012 19:15:41

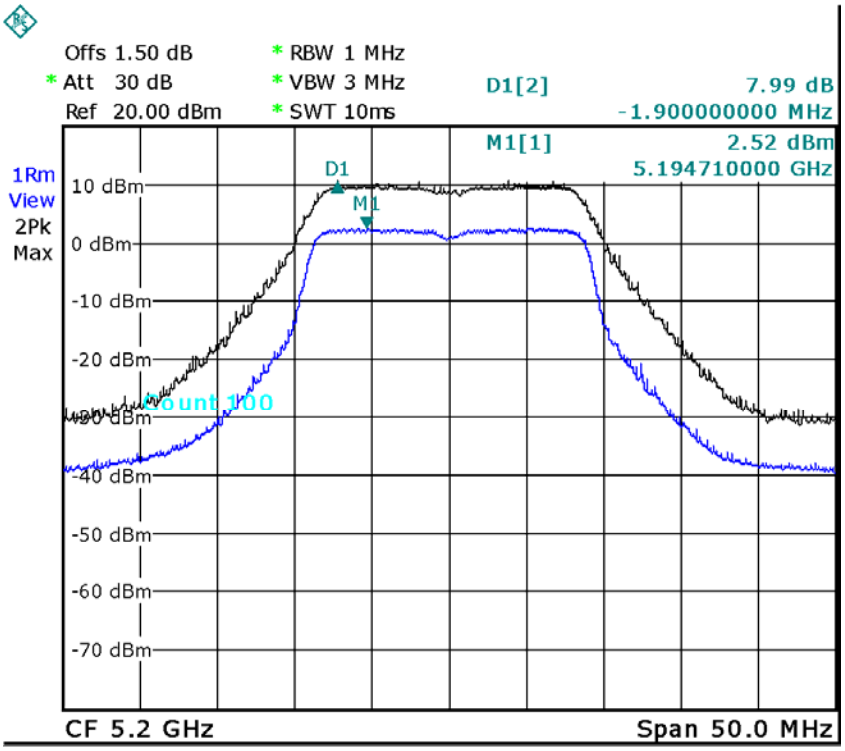
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N20 Mode/CH36, CH40, CH48		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH36	5180	8.41	13
CH40	5210	7.99	13
CH48	5240	7.86	13

CH36

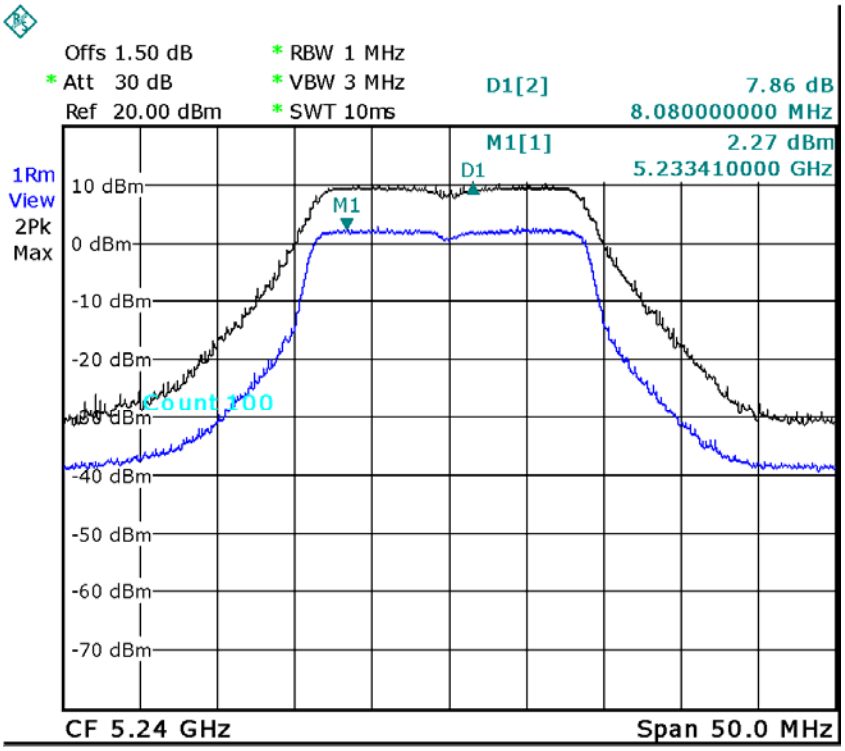


CH40



Date: 10.OCT.2012 20:10:01

CH48

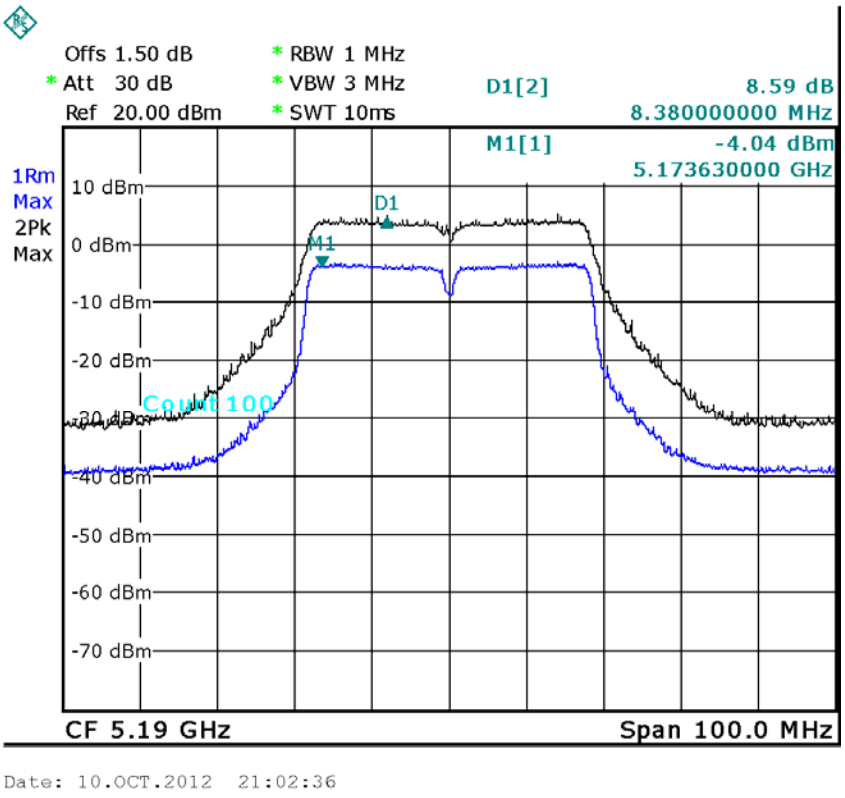


Date: 10.OCT.2012 20:20:44

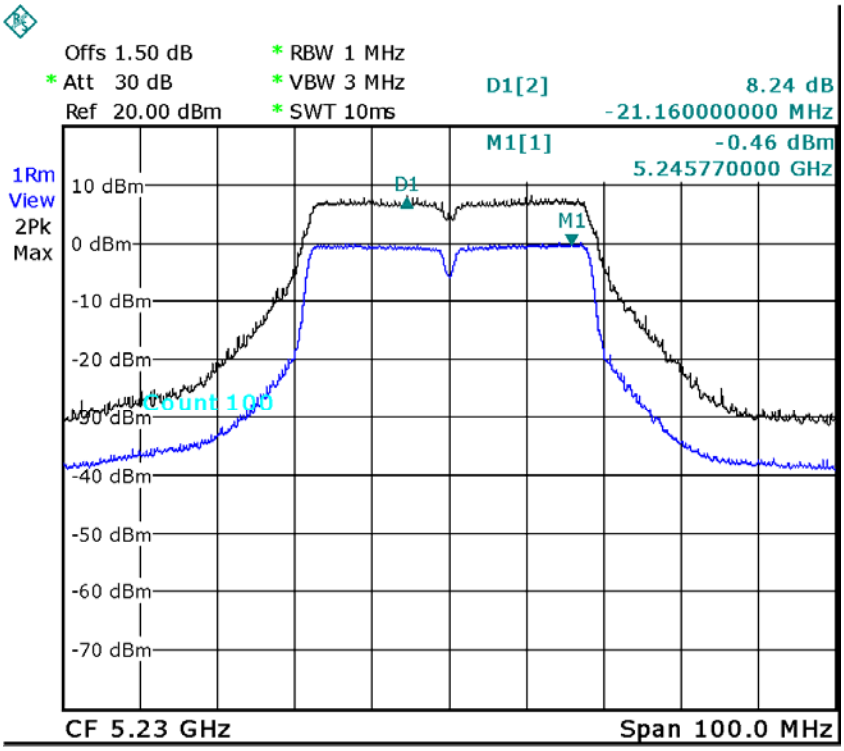
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1/TX N40 Mode/CH38, CH46		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH38	5190	8.59	13
CH46	5230	8.24	13

CH38



CH46

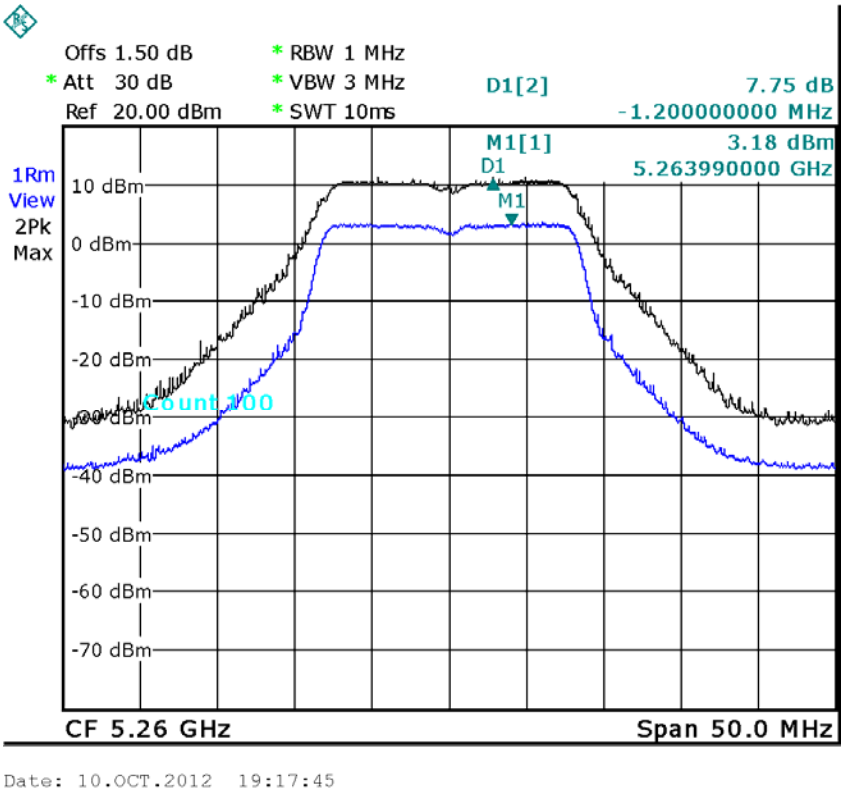


Date: 10.OCT.2012 20:59:45

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX A Mode/CH52, CH56, CH64		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH52	5260	7.75	13
CH56	5280	7.71	13
CH64	5320	7.5	13

CH52



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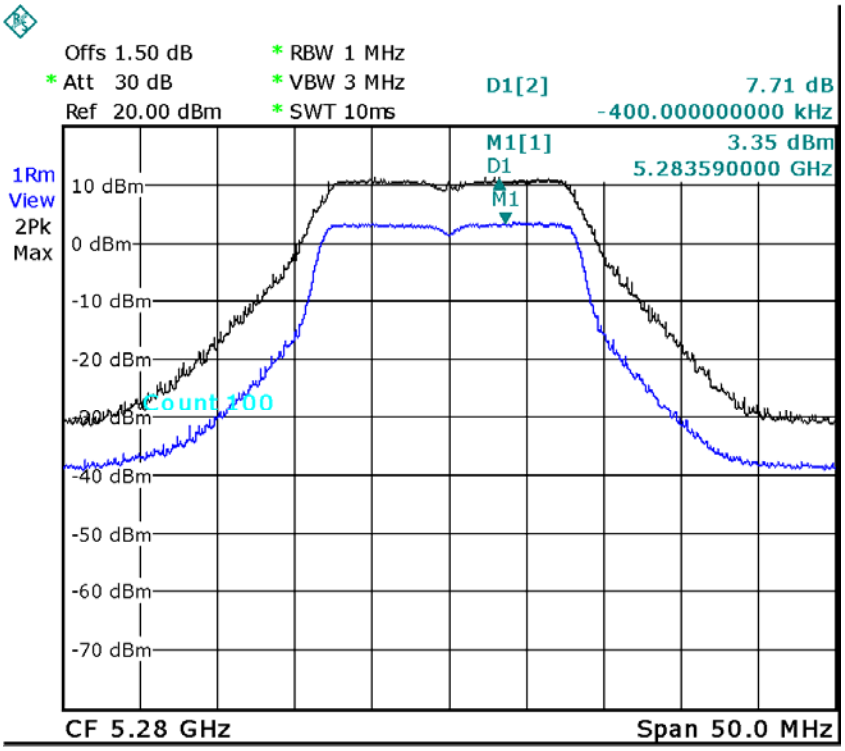
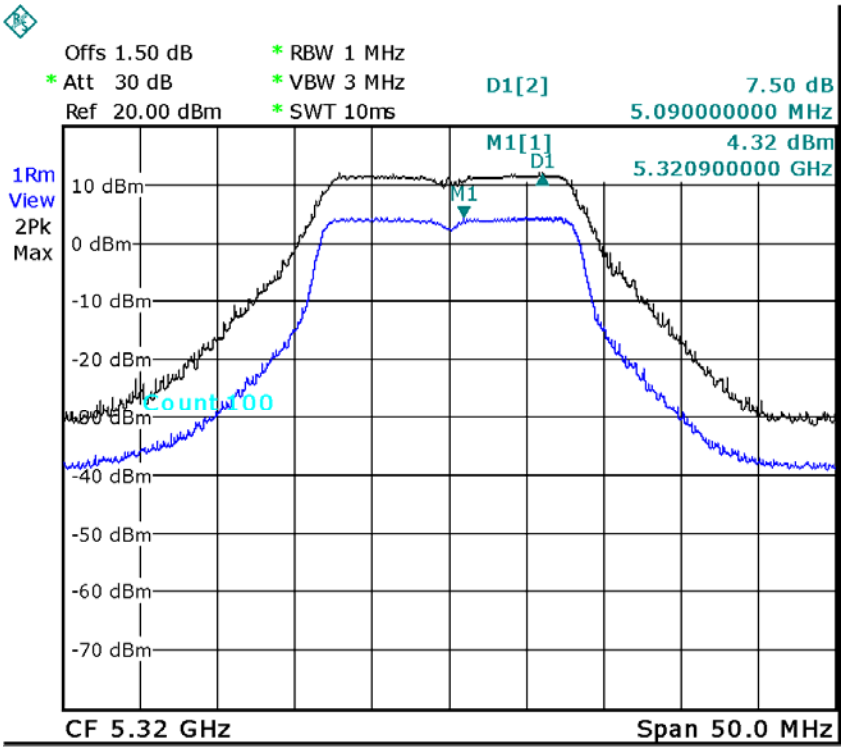
CH56



Date: 10.OCT.2012 19:19:14

CH64

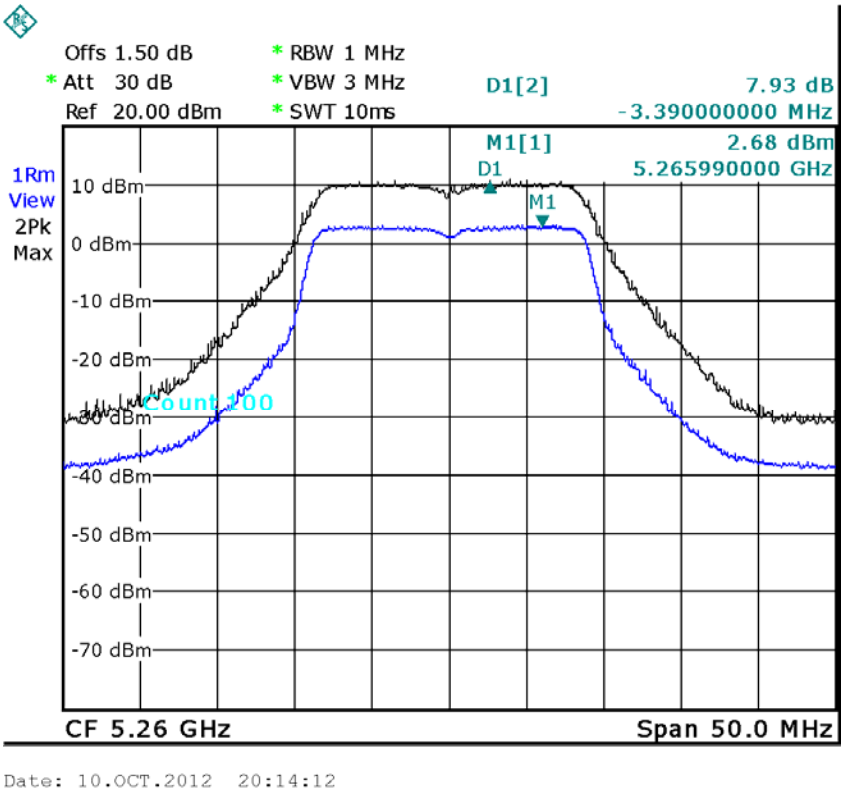


Date: 10.OCT.2012 19:20:23

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N20 Mode/CH52, CH56, CH64		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH52	5260	7.93	13
CH56	5280	8.34	13
CH64	5320	8.41	13

CH52



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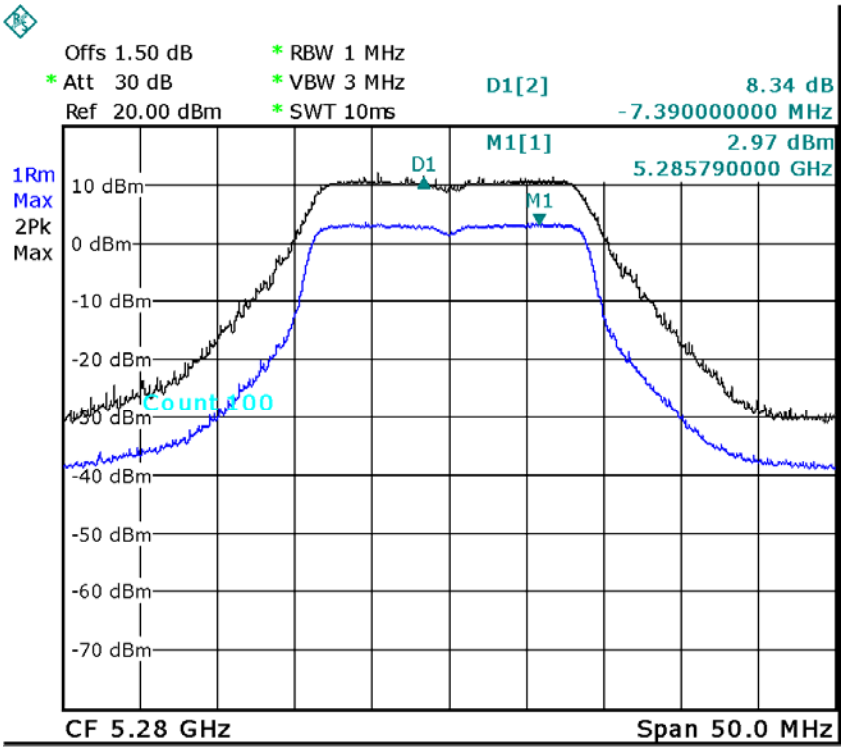
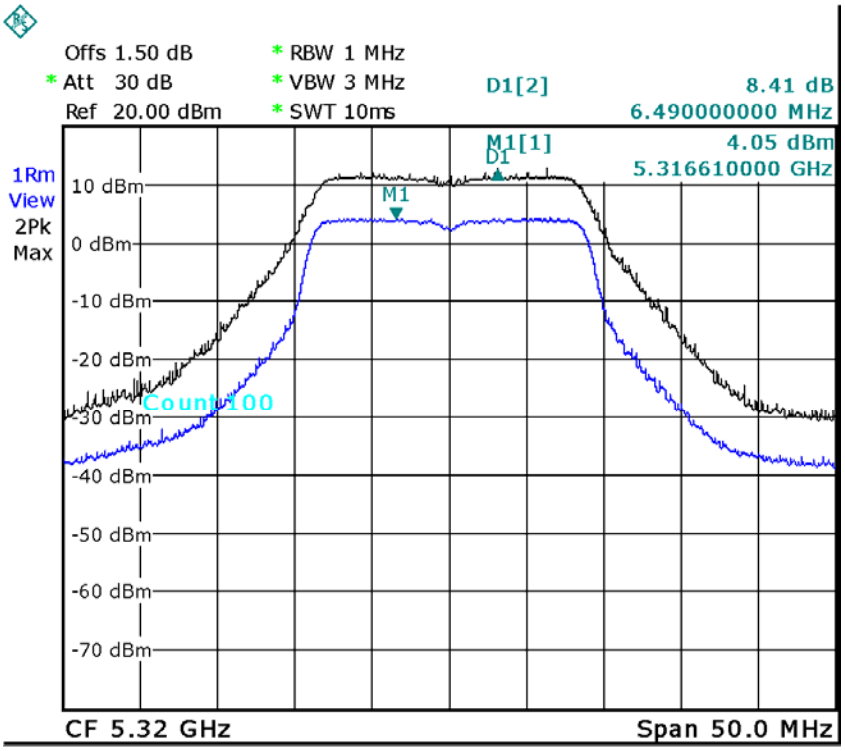
CH56



Date: 10.OCT.2012 20:24:54

CH64

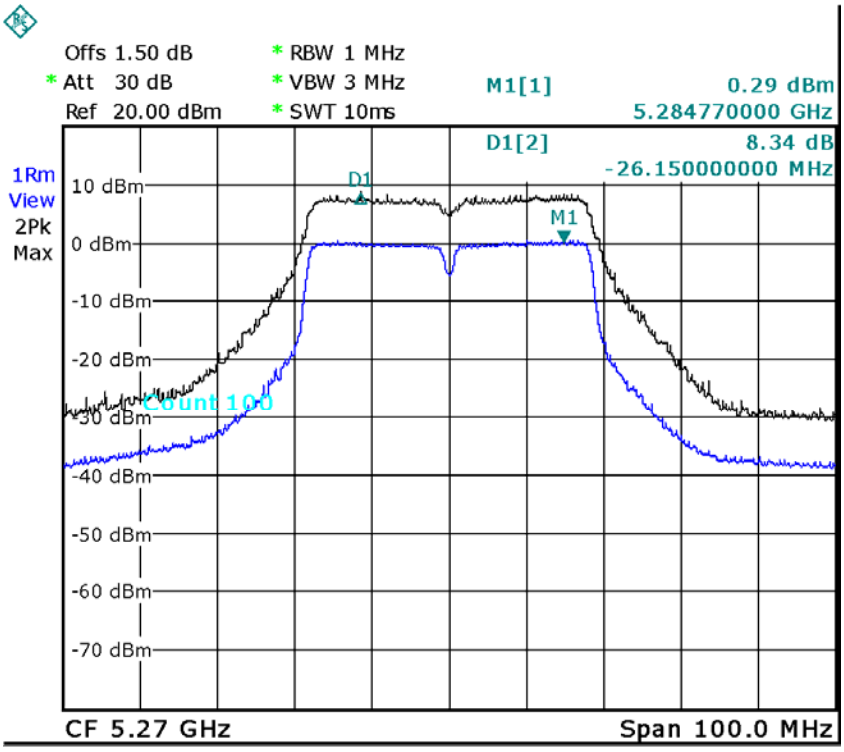


Date: 10.OCT.2012 20:27:47

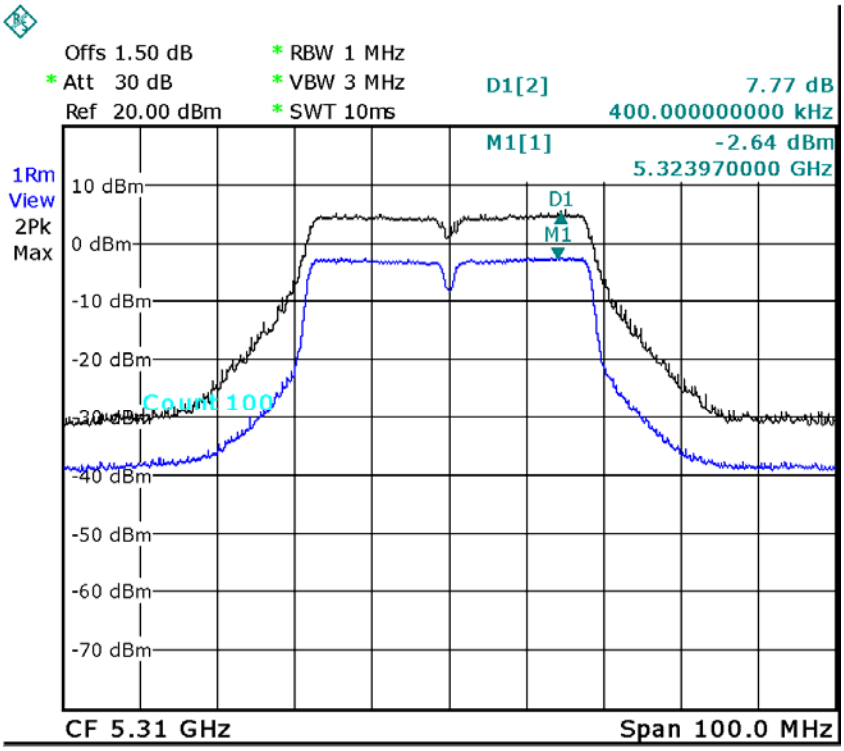
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2/TX N40 Mode/CH54, CH62		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH54	5270	8.34	13
CH62	5310	7.77	13

CH54



CH62

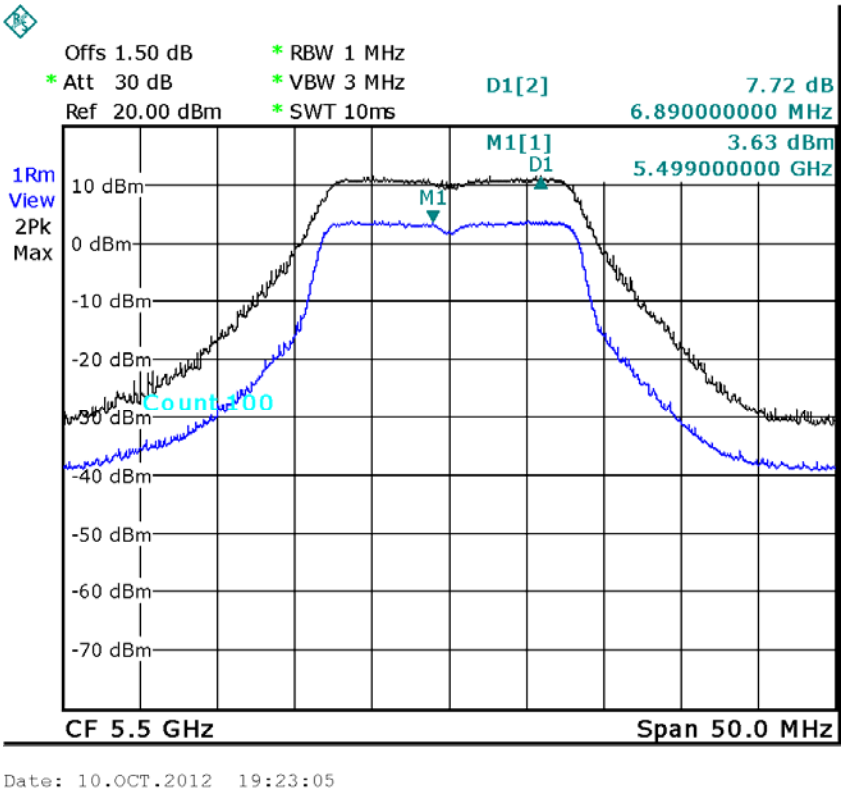


Date: 10.OCT.2012 20:52:36

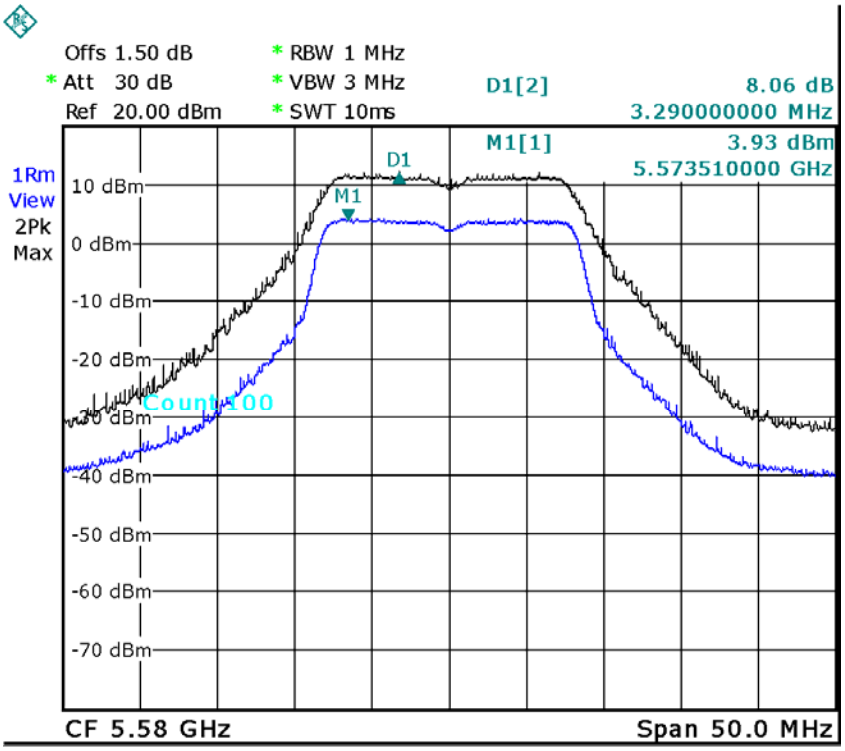
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX A Mode/CH100, CH116, CH140		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH100	5500	7.72	13
CH116	5580	8.06	13
CH140	5700	8.1	13

CH100

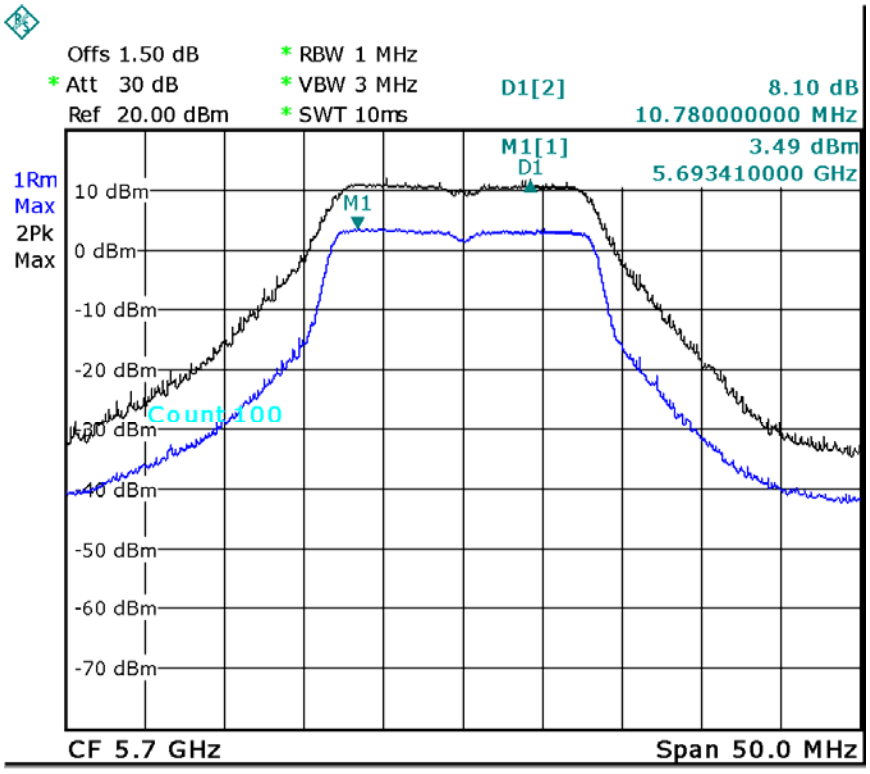


CH116



Date: 10.OCT.2012 19:24:34

CH140

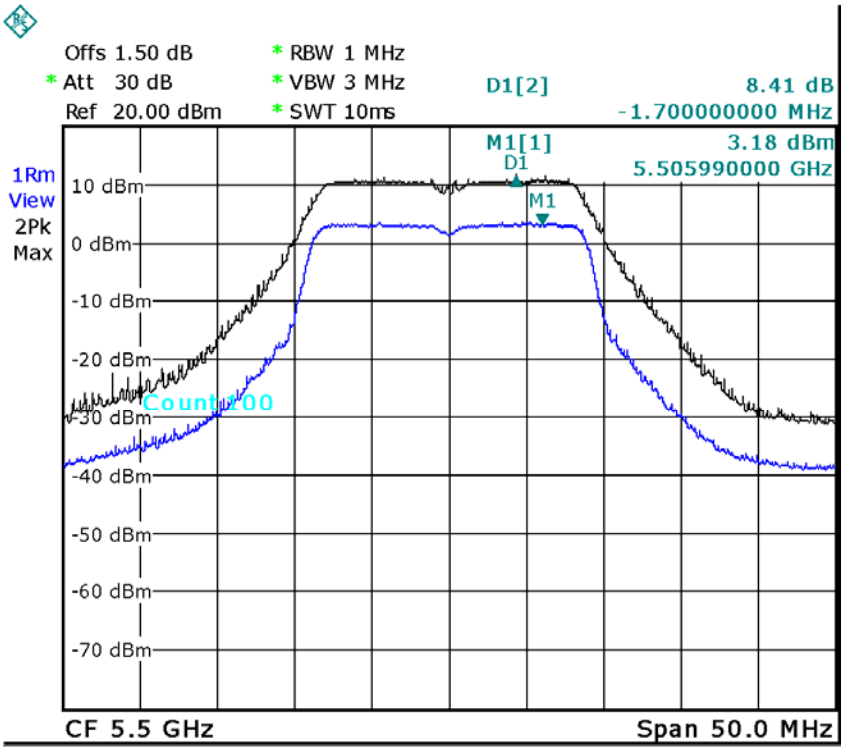


Date: 10.OCT.2012 19:25:55

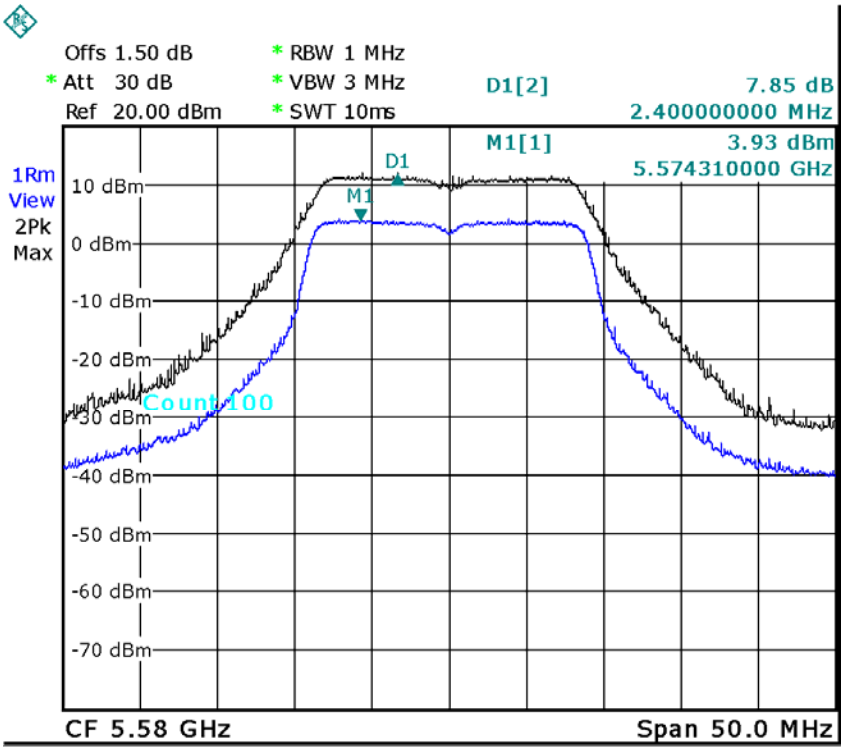
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N20 Mode/CH52, CH56, CH64		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH100	5500	8.41	13
CH116	5580	7.85	13
CH140	5700	8.38	13

CH100



CH116



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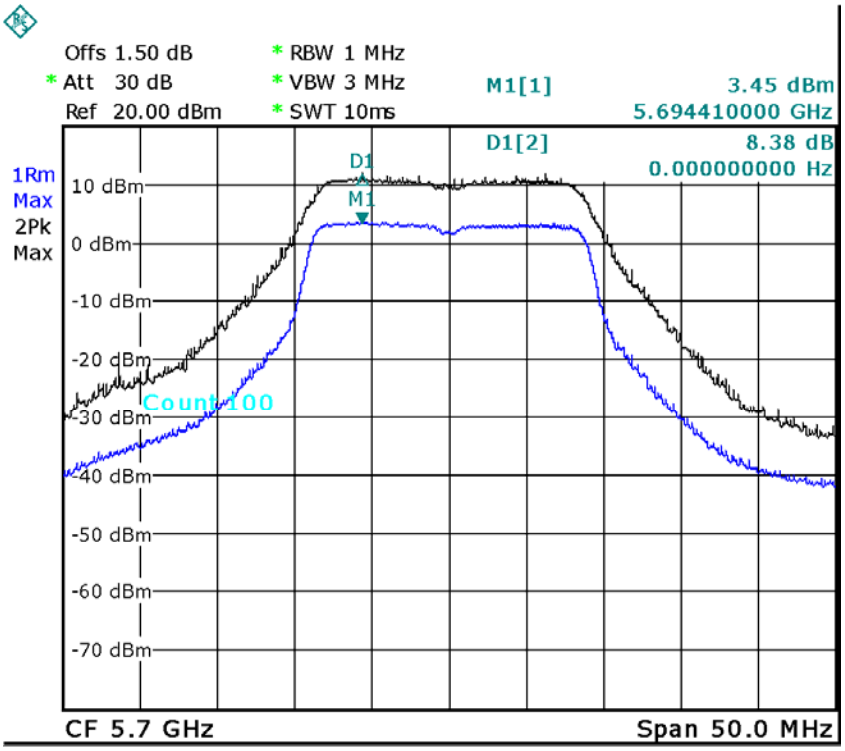
CH140

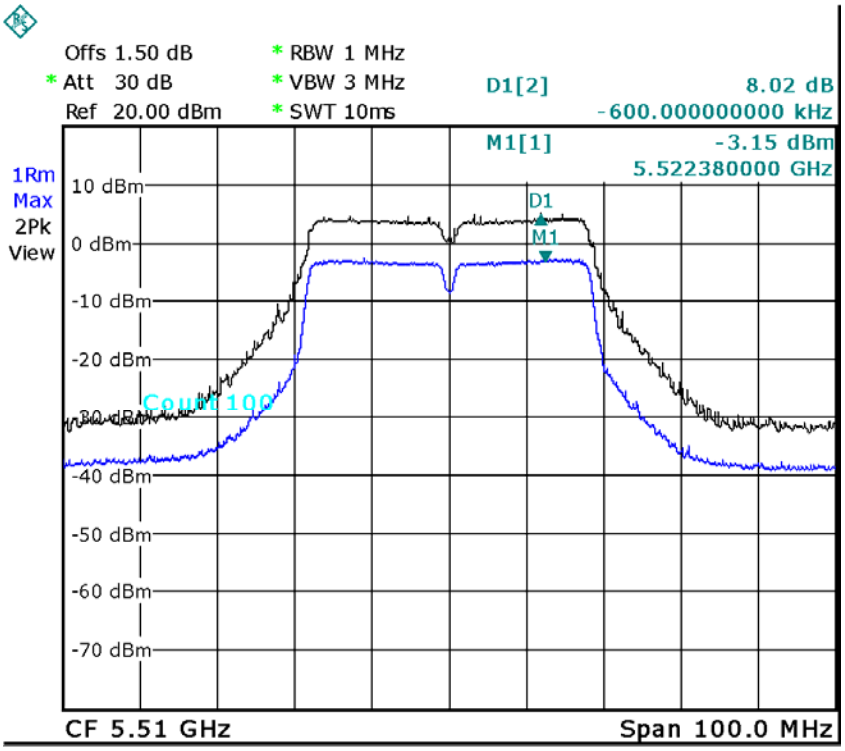


Date: 10.OCT.2012 20:35:21

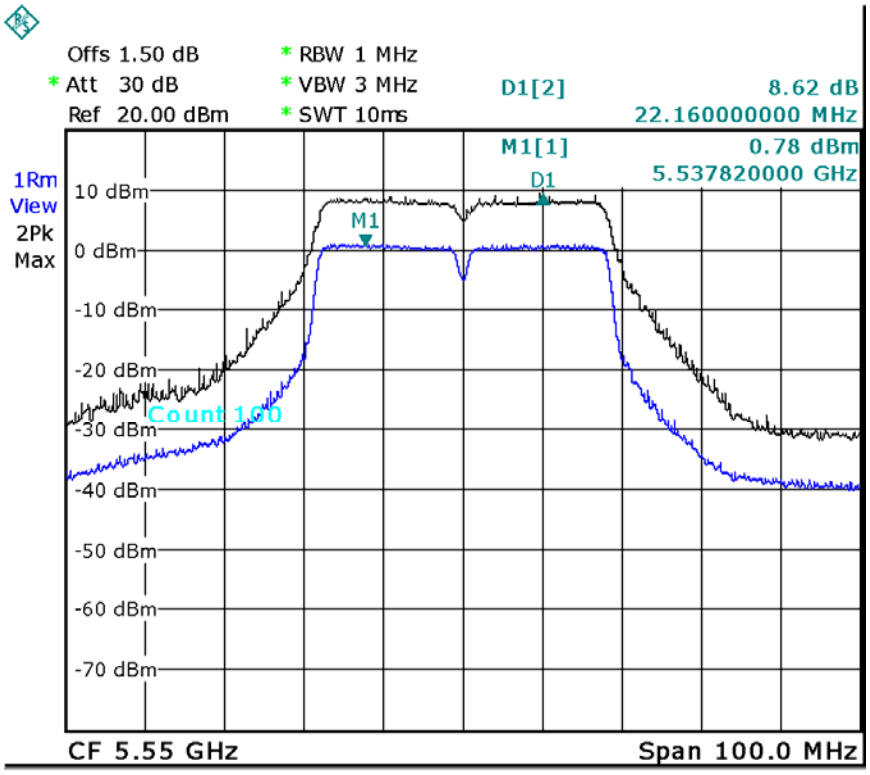
EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3/TX N40 Mode/CH102, CH110,CH134		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH102	5510	8.02	13
CH110	5550	8.62	13
CH134	5670	7.54	13

CH102

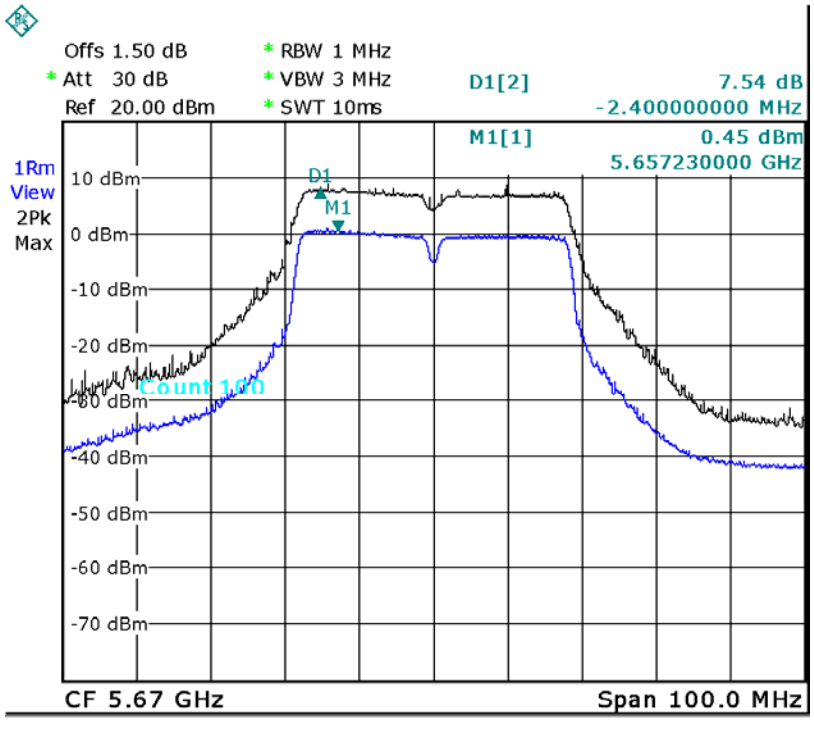


CH110



Date: 10.OCT.2012 20:45:02

CH134



Date: 10.OCT.2012 20:46:33

10. FREQUENCY STABILITY MEASUREMENT

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E 15.407(g)			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	specified in the user's manual	5150 – 5250	PASS
		5250 – 5350	N/A
		5470 – 5725	N/A

10.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2012
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 11, 2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

10.1.2 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 Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

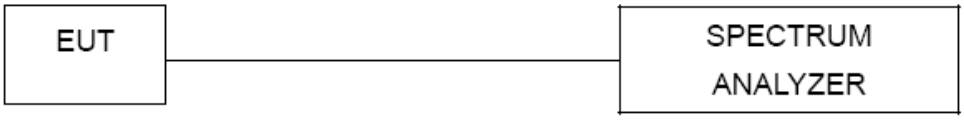
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. user manual temperature is -10°C~45°C.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP



10.1.5 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.

10.1.6 TEST RESULTS

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 1		

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180
138	5180.002360
120	5180.001220
102	5179.999450
Max. Deviation (MHz)	0.002360
Max. Deviation (ppm)	0.46

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180
-10	5180.00236
5	5180.00215
15	5180.00101
25	5179.99871
35	5179.99852
45	5180
Max. Deviation (MHz)	0.002360
Max. Deviation (ppm)	0.46

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 2		

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5320
138	5320.003200
120	5320.001100
102	5319.999600
Max. Deviation (MHz)	0.003200
Max. Deviation (ppm)	0.60

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5320
-10	5320.003120
5	5320.002190
15	5320.001230
25	5319.998520
35	5319.998460
45	5319.998400
Max. Deviation (MHz)	0.003120
Max. Deviation (ppm)	0.59

EUT：	Wireless LAN Access Point	Model Name ：	AP5010DN-AGN
Temperature：	25°C	Relative Humidity：	58 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	Band 3		

Voltage vs. Frequency Stability

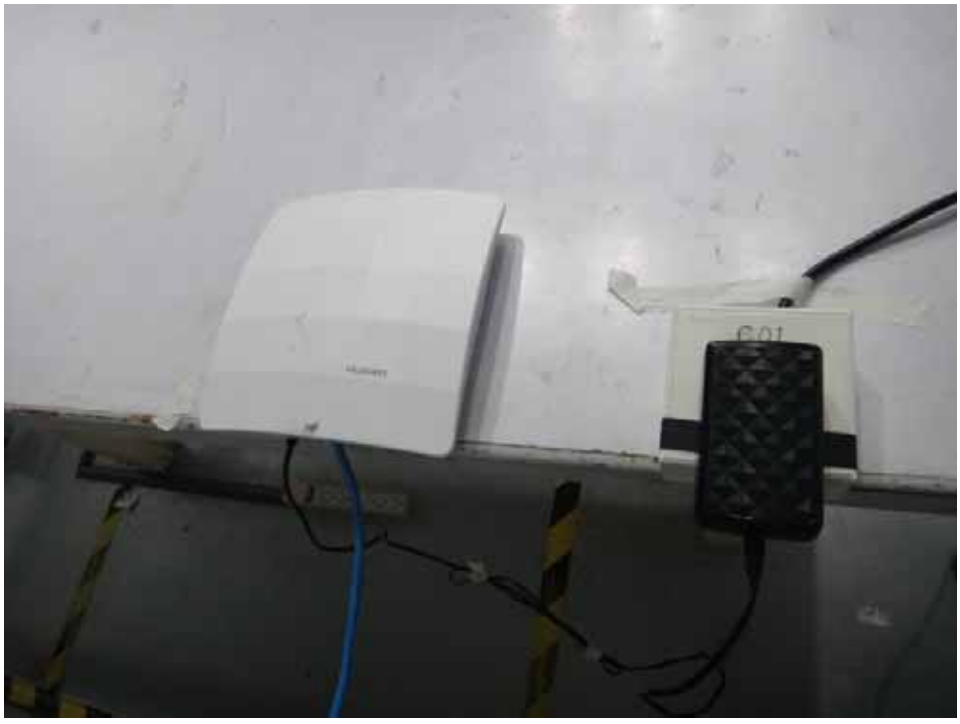
Voltage	Measurement Frequency (MHz)
(V)	5700
138	5700.002100
120	5700.001000
102	5699.999400
Max. Deviation (MHz)	0.002100
Max. Deviation (ppm)	0.37

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5700
-10	5700.003510
5	5700.002430
15	5700.001200
25	5699.999460
35	5699.998610
45	5699.996800
Max. Deviation (MHz)	0.003510
Max. Deviation (ppm)	0.62

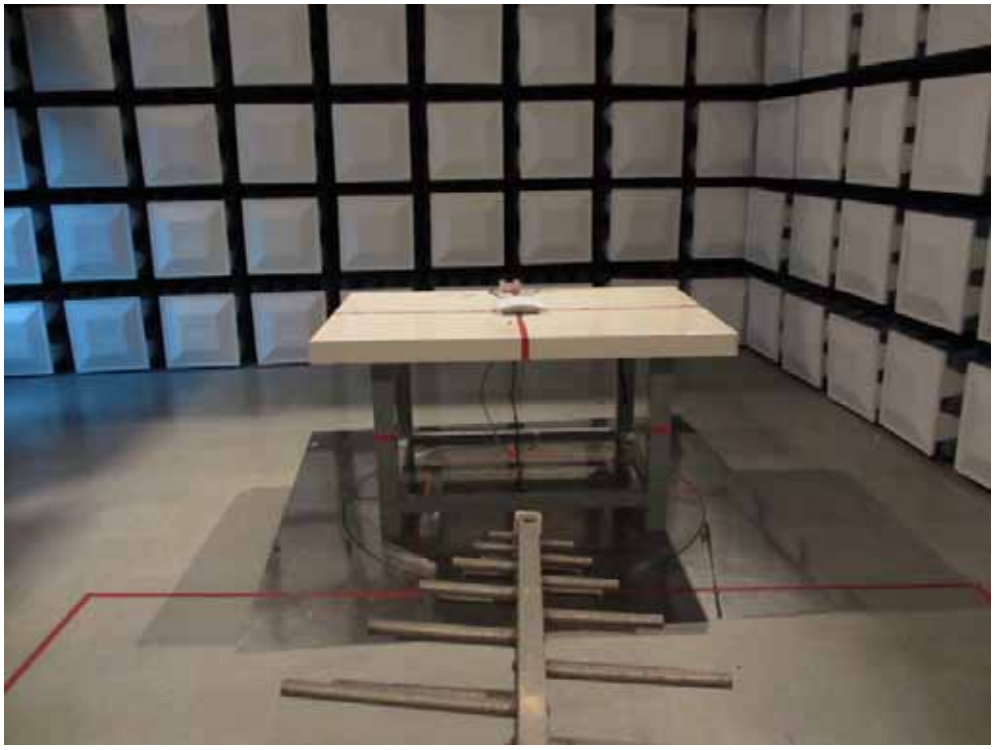
11. EUT TEST PHOTO

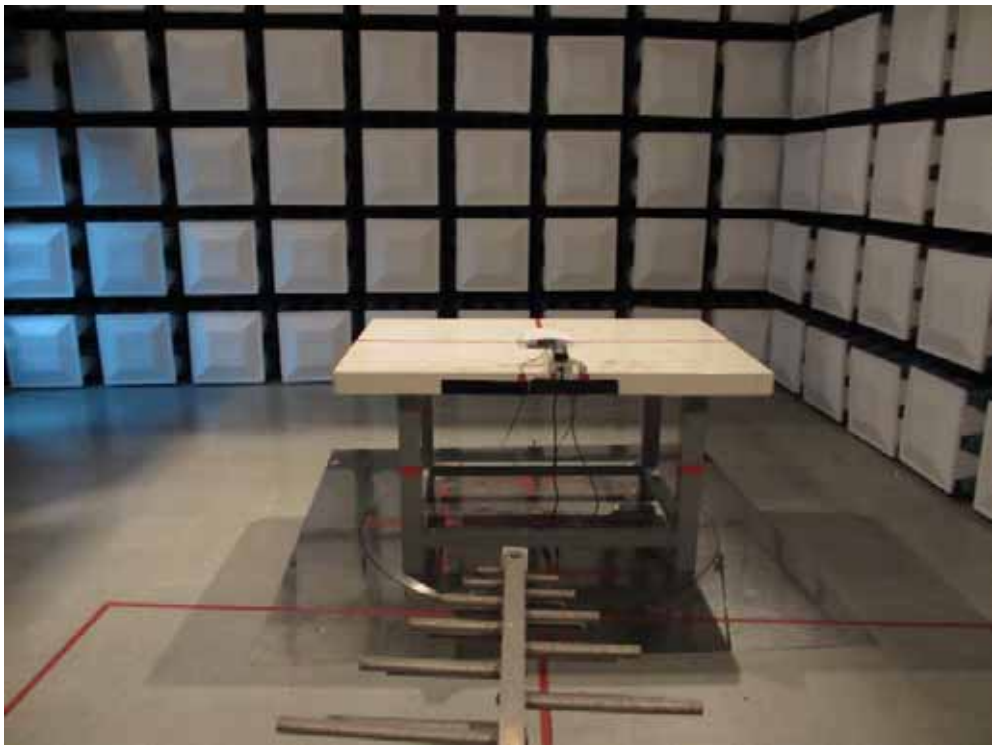
Conducted Measurement Photos



Radiated Measurement Photos
9K-30MHz

Radiated Measurement Photos
30MHz-1GHz





Radiated Measurement Photos
Above 1GHz