FCC Radio Test Report

FCC ID: TGN-AN0100

This report concerns (check one) : ■ **Original Grant** □ **Class I Change**

Issued Date : Sep. 22, 2009
Project No. : R0907003
Equipment : Wireless 11n AP
Model Name : AN0100

Applicant : TiVo Inc.
Address : 2160 Gold St., Alviso, CA 95002 USA

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Test:
Jun. 08, 2009 ~ Jul. 28, 2009

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

Authorized Signatory : Andy Chiu
(Andy Chiu)

Neutron Engineering Inc.
B1, No. 37, Lane 365, YangGuang St.,
NeiHu District 114, Taipei, Taiwan.
TEL: +886-2-2657-3299
FAX: +886-2-2657-3331

NVLAP Lab Code: 200145-0 ilac-MRA TAF Testing Laboratory 0659

Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents Page

1 . CERTIFICATION 6

2 . SUMMARY OF TEST RESULTS 7

2.1 TEST FACILITY 8

2.2 MEASUREMENT UNCERTAINTY 8

3 . GENERAL INFORMATION 9

3.1 GENERAL DESCRIPTION OF EUT 9

3.2 DESCRIPTION OF TEST MODES 12

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 14

3.4 DESCRIPTION OF SUPPORT UNITS 15

4 . EMC EMISSION TEST 16

4.1 CONDUCTED EMISSION MEASUREMENT 16

4.1.1 POWER LINE CONDUCTED EMISSION 16

4.1.2 MEASUREMENT INSTRUMENTS LIST 16

4.1.3 TEST PROCEDURE 17

4.1.4 DEVIATION FROM TEST STANDARD 17

4.1.5 TEST SETUP 17

4.1.6 EUT OPERATING CONDITIONS 18

4.1.7 TEST RESULTS 19

4.2 RADIATED EMISSION MEASUREMENT 21

4.2.1 RADIATED EMISSION LIMITS 21

4.2.2 MEASUREMENT INSTRUMENTS LIST 22

4.2.3 TEST PROCEDURE 22

4.2.4 DEVIATION FROM TEST STANDARD 23

4.2.5 TEST SETUP 23

4.2.6 EUT OPERATING CONDITIONS 23

4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ 24

4.2.8 TEST RESULTS - ABOVE 1000MHZ - BAND 1 26

4.2.9 TEST RESULTS - ABOVE 1000MHZ - BAND 2 58

4.2.10 TEST RESULTS - ABOVE 1000MHZ - BAND 3 90

4.2.11 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS 126

5 . 26dB Spectrum Bandwidth 150

5.1 APPLIED PROCEDURES / LIMIT 150

5.1.1 MEASUREMENT INSTRUMENTS LIST 150

5.1.2 TEST PROCEDURE 150

5.1.3 DEVIATION FROM STANDARD 150

5.1.4 TEST SETUP 150

Table of Contents Page

5.1.5 EUT OPERATION CONDITIONS 150
5.1.6 TEST RESULTS - BAND 1 151
5.1.7 TEST RESULTS - BAND 2 161
5.1.8 TEST RESULTS - BAND 3 171

6 . Maximum Conducted Output Power 181

6.1 APPLIED PROCEDURES / LIMIT 181
6.1.1 MEASUREMENT INSTRUMENTS LIST 181
6.1.2 TEST PROCEDURE 181
6.1.3 DEVIATION FROM STANDARD 182
6.1.4 TEST SETUP 182
6.1.5 EUT OPERATION CONDITIONS 182
6.1.6 TEST RESULTS - BAND 1 183
6.1.7 TEST RESULTS - BAND 2 192
6.1.8 TEST RESULTS - BAND 3 202

7 . ANTENNA CONDUCTED SPURIOUS EMISSION 212

7.1 APPLIED PROCEDURES / LIMIT 212
7.1.1 MEASUREMENT INSTRUMENTS LIST 212
7.1.2 TEST PROCEDURE 212
7.1.3 DEVIATION FROM STANDARD 212
7.1.4 TEST SETUP 212
7.1.5 EUT OPERATION CONDITIONS 212
7.1.6 TEST RESULTS 213

8 . POWER SPECTRAL DENSITY TEST 243

8.1 APPLIED PROCEDURES / LIMIT 243
8.1.1 MEASUREMENT INSTRUMENTS LIST 243
8.1.2 TEST PROCEDURE 243
8.1.3 DEVIATION FROM STANDARD 243
8.1.4 TEST SETUP 243
8.1.5 EUT OPERATION CONDITIONS 243
8.1.6 TEST RESULTS - BAND 1 244
8.1.7 TEST RESULTS - BAND 2 256
8.1.8 TEST RESULTS - BAND 3 268

9 . Peak Excursion Measurement 280

9.1 APPLIED PROCEDURES / LIMIT 280
9.1.1 MEASUREMENT INSTRUMENTS LIST 280
9.1.2 TEST PROCEDURE 280
9.1.3 DEVIATION FROM STANDARD 280
9.1.4 TEST SETUP 281
9.1.5 EUT OPERATION CONDITIONS 281
9.1.6 TEST RESULTS - BAND 1 282

Table of Contents Page

9.1.7 TEST RESULTS - BAND 2 292
9.1.8 TEST RESULTS - BAND 3 302

10 . Frequency Stability Measurement 312

10.1 APPLIED PROCEDURES / LIMIT 312
10.1.1 MEASUREMENT INSTRUMENTS LIST 312
10.1.2 TEST PROCEDURE 312
10.1.3 DEVIATION FROM STANDARD 312
10.1.4 TEST SETUP 313
10.1.5 EUT OPERATION CONDITIONS 313
10.1.6 TEST RESULTS 314

11 . RF EXPOSURE TEST 315

11.1 APPLIED PROCEDURES / LIMIT 315
11.1.1 MEASUREMENT INSTRUMENTS LIST 315
11.1.2 MPE CALCULATION METHOD 315
11.1.3 DEVIATION FROM STANDARD 316
11.1.4 TEST SETUP 316
11.1.5 EUT OPERATION CONDITIONS 316
11.1.6 TEST RESULTS - BAND 1 317
11.1.7 TEST RESULTS - BAND 2 324
11.1.8 TEST RESULTS - BAND 3 331

12 . EUT TEST PHOTO 338

1. CERTIFICATION

Equipment : Wireless 11n AP
Brand Name : TiVo
Model Name : AN0100
Applicant : TiVo Inc.
Date of Test : Jun. 08, 2009 ~ Jul. 28, 2009
Standards : FCC Part15, Subpart E / ANCI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-2-R0907003) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407 (a)	26dB Spectrum Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407 (a)	Peak Excursion	PASS	
15.407 (a)	Radiated Emissions	PASS	
15.407 (b)	Band Edge Emissions	PASS	
15.407 (b)	Frequency Stability	PASS	
15.407 (g)	Antenna Requirements	PASS	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2)This test report covers EUT radio function only. Its receive function testing is covered in another DOC test report: NEI-FCCE-1-R0907003.

(3)This test report only covers radio function 802.11a and n (Band I, II and III). Its radio function 802.11 b, g, n and 802.11a and n (Band IV) testing is covered in another test report: NEI-FCCP-1-R0907003.

(4) The EUT has two modes of operation:

1) client also known as 802.11 station mode. (Slave)

2) bridge also known as 802.11 AP/infrastructure mode (Master)

The mode of operation is selected by a physical switch which is located on the bottom of the unit.

In station mode(Slave), the EUT will operate in all UNII bands: 5150-5250MHz,5250-5350MHz,5470-5725MHz,5725-5825MHz

In bridge or infrastructure mode(Master), the EUT will operate only in the non-DFS bands: 5150-5250MHz,5725-5825MHz

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/ CB08(FCC R.N.: 614388)** at the location of 1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.).

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95**%。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U，(dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	2.86	
		30MHz ~ 200MHz	H	2.56	
		200MHz ~ 1,000MHz	V	2.88	
		200MHz ~ 1,000MHz	H	2.98	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Wireless 11n AP</td></tr>
<tr><td>Brand Name</td><td>TiVo</td></tr>
<tr><td>Model Name</td><td>AN0100</td></tr>
<tr><td>OEM Brand/Model Name</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a Wireless 11n AP.
<table>
<tr><td>Operation Frequency:</td><td>802.11a/n :5150-5250MHz
5250-5350MHz
5470-5725MHz</td></tr>
<tr><td>Modulation Type:</td><td>OFDM: BPSK, QPSK, 16QAM and 64QAM
DSSS: DBPSK, DQPSK and CCK
MIMO: HT20 and HT40</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>802.11a: 6,9,12,18,24,36,48,54Mbps
802.11n (MIMO): HT20 up to 130Mbps
HT40 up to 300Mbps</td></tr>
<tr><td>Number Of Channel:</td><td>Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Antenna Gain(Peak):</td><td>Please see Note 3.</td></tr>
<tr><td>Peak Power(Max):</td><td>Please see Note 4.</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Frequency Range</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Source</td><td>DC Voltage supplied from AC/DC ADAPTOR.</td></tr>
</table>

Channel List	Please refer to the Note 3.
Power Source	DC Voltage supplied from I.T.E.POWER SUPPLY.
Power Rating	I/P: AC 100-240V 50/60Hz 0.3A / O/P: DC 12V 0.5A
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	I.T.E.POWER SUPPLY: UNIFIVE / UN305-1205

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2.

Frequency Range			
Band	Frequency Range (MHz)	CH Seperation (MHz)	Note
1	5150 - 5250	5	V
2	5250 - 5350	5	V
3	5470 - 5725	5	V
4	5725 - 5825	5	

3. Table for Filed Antenna

Antenna	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
0	N/A	N/A	Printed	On-board	2.67
1	N/A	N/A	Printed	On-board	1.8

4 The EUT incorporates MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R)

Modulated type	TX Function
802.11a	1TX
Draft 802.11n(20MHz)	2TX
Draft 802.11n(40MHz)	2TX

For 5 GHz Band 1		For 5 GHz Band 2	
Modulation Type	Max. Peak Power (dBm)	Modulation Type	Max. Peak Power (dBm)
802.11a	16.35	802.11a	21.2
802.11n(20MHz)	16.91	802.11n(20MHz)	22.28
802.11n(40MHz)	16.99	802.11n(40MHz)	23.39

For 5 GHz Band 3			
Modulation Type	Max. Peak Power (dBm)		
802.11a	21.38		
802.11n(20MHz)	23.49		
802.11n(40MHz)	23.6		

3.2 DESCRIPTION OF TEST MODES

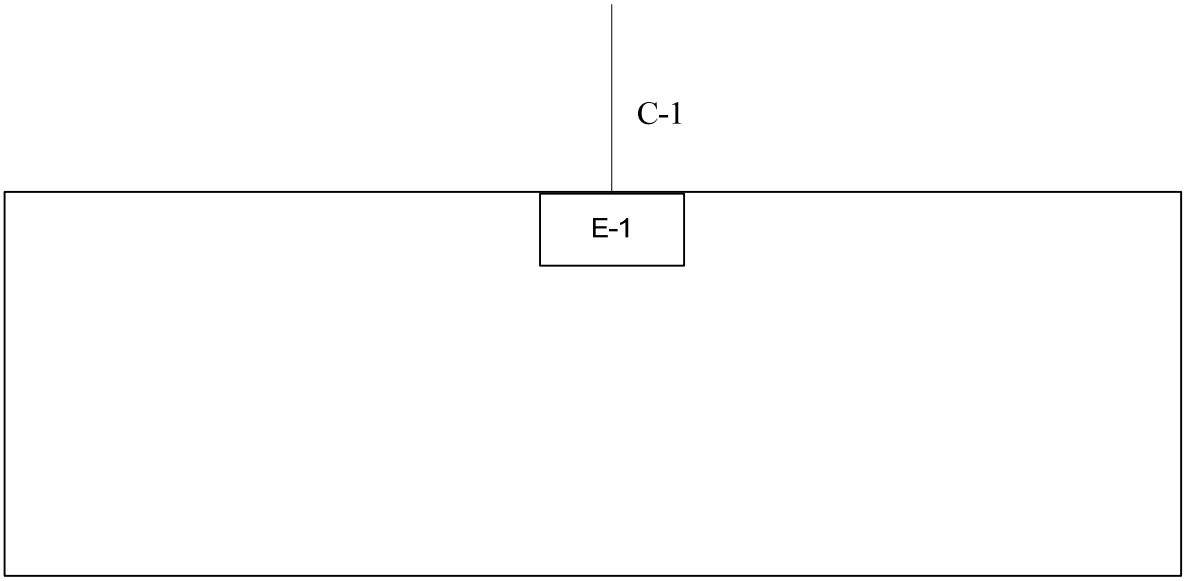
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	802.11a/CH36, CH40, CH48 (Port 0)
Mode 2	802.11n/20M/CH36, CH40, CH48 (Port 0 + Port 1)
Mode 3	802.11n/40M/CH38, CH46 (Port 0 + Port 1)
Mode 4	802.11a/CH52, CH60, CH64 (Port 0)
Mode 5	802.11n/20M/CH52, CH60, CH64 (Port 0 + Port 1)
Mode 6	802.11n/40M/CH54, CH62 (Port 0 + Port 1)
Mode 7	802.11a/CH100, CH116, CH140 (Port 0)
Mode 8	802.11n/20M/CH100, CH116, CH140 (Port 0 + Port 1)
Mode 9	802.11n/40M/CH102, CH110, CH134 (Port 0 + Port 1)

For Conducted Test	
Final Test Mode	Description
Mode 1	802.11a/CH40

For Radiated Test	
Final Test Mode	Description
Mode 1	802.11a/CH36, CH40, CH48 (Port 0)
Mode 2	802.11n/20M/CH36, CH40, CH48 (Port 0 + Port 1)
Mode 3	802.11n/40M/CH38, CH46 (Port 0 + Port 1)
Mode 4	802.11a/CH52, CH60, CH64 (Port 0)
Mode 5	802.11n/20M/CH52, CH60, CH64 (Port 0 + Port 1)
Mode 6	802.11n/40M/CH54, CH62 (Port 0 + Port 1)
Mode 7	802.11a/CH100, CH116, CH140 (Port 0)
Mode 8	802.11n/20M/CH100, CH116, CH140 (Port 0 + Port 1)
Mode 9	802.11n/40M/CH102, CH110, CH134 (Port 0 + Port 1)

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Wireless 11n AP	TiVo	AN0100	TGN-AN0100	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10.0M	RJ-45 Line

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	SR03_C_01 &02	N/A	Aug. 19, 2009
2	LISN	EMCO	3816/2	00042991	Jan. 21, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Dec. 28, 2009
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 17, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

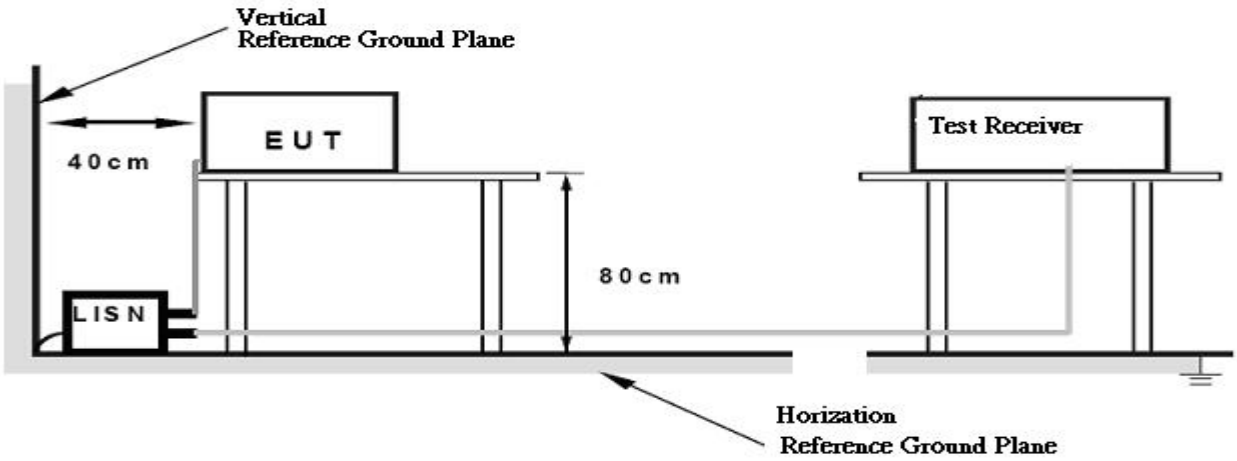
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.7 TEST RESULTS

EUT：	Wireless 11n AP	Model Name :	AN0100
Temperature :	28°C	Relative Humidity :	50%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH40		

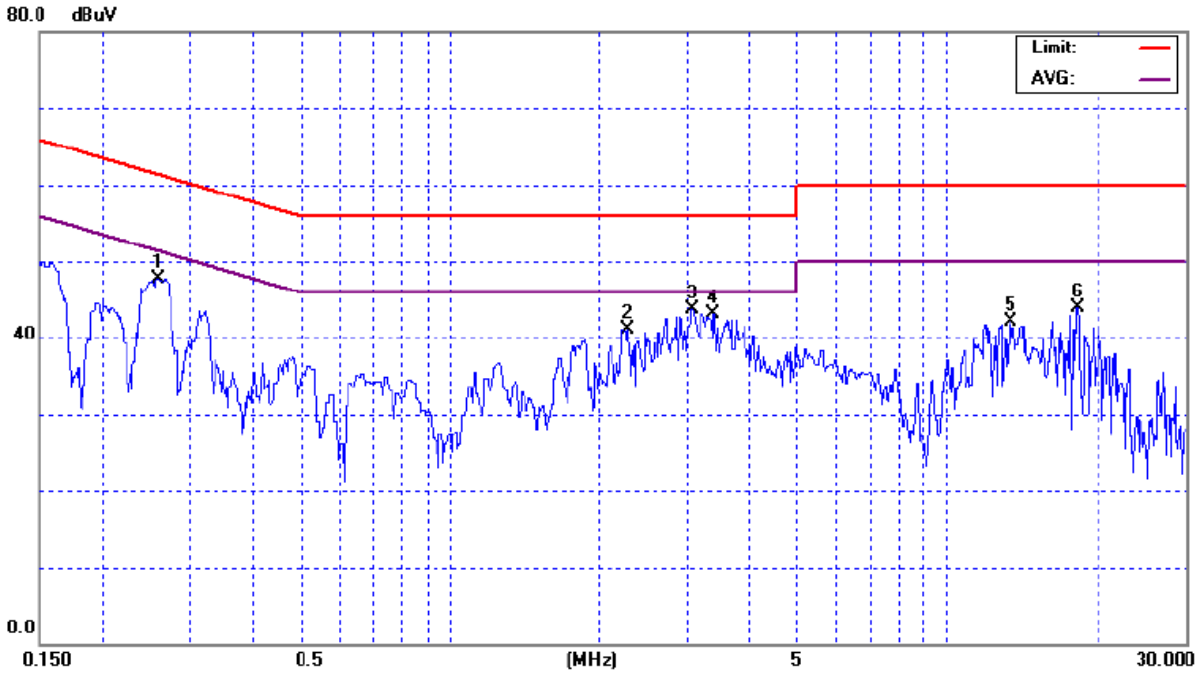
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.26	Line	47.79	*	61.50	51.50	-13.71	(QP)
2.28	Line	41.12	*	56.00	46.00	-14.88	(QP)
3.07	Line	43.71	*	56.00	46.00	-12.29	(QP)
3.40	Line	43.07	*	56.00	46.00	-12.93	(QP)
13.40	Line	42.13	*	60.00	50.00	-17.87	(QP)
18.25	Line	43.91	*	60.00	50.00	-16.09	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



E.U.T :	Wireless 11n AP	Model Name :	AN0100
Temperature :	28°C	Relative Humidity :	50%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11a/CH40		

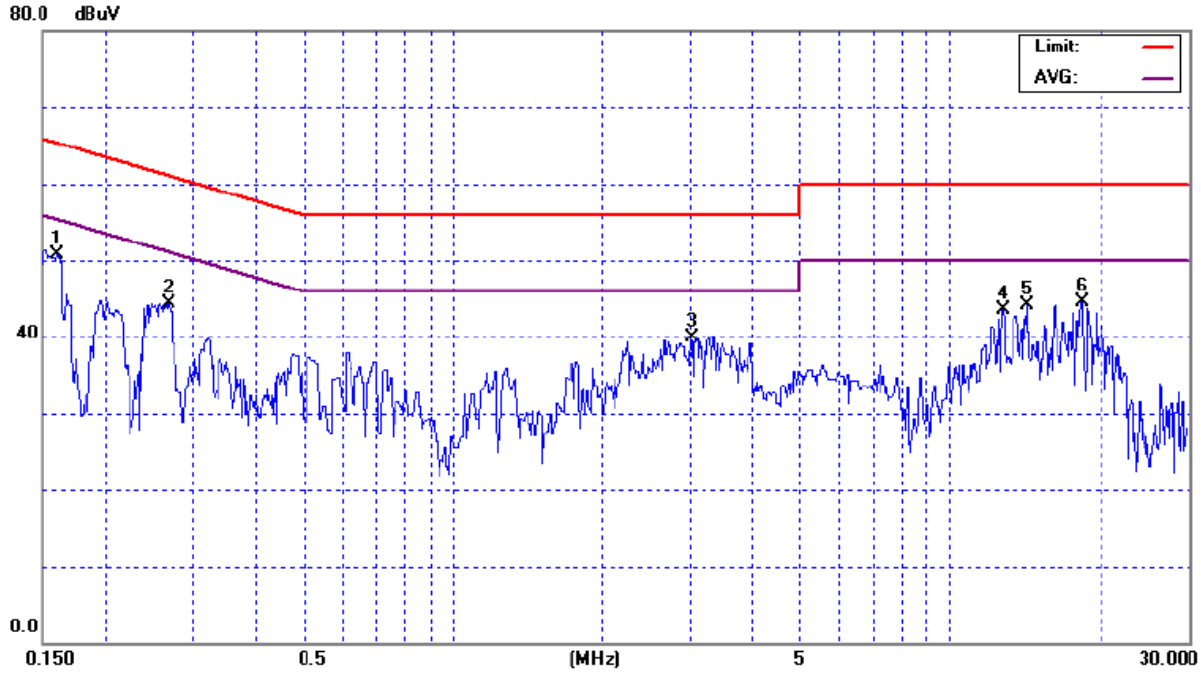
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.16	Neutral	50.64	*	65.44	55.44	-14.80	(QP)
0.27	Neutral	44.40	*	61.19	51.19	-16.79	(QP)
3.01	Neutral	39.92	*	56.00	46.00	-16.08	(QP)
12.75	Neutral	43.52	*	60.00	50.00	-16.48	(QP)
14.35	Neutral	44.16	*	60.00	50.00	-15.84	(QP)
18.35	Neutral	44.47	*	60.00	50.00	-15.53	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	352	Jun. 17, 2010
2	Test Cable	N/A	LMR-400(3M)	N/A	Jun. 18, 2010
3	Test Cable	N/A	LMR-400(12M)	N/A	Jun. 18, 2010
4	Pre-Amplifier	EMC	EMC330	980001	Jun. 03, 2010
5	Turn Table r	Chance Most	CM100	N/A	N/A
6	Positioning Controller	Chance Most	CM100	N/A	N/A
7	Spectrum Analyzer (1G)	R&S	FSP-40	100129	Sep. 9, 2009
8	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 09, 2010
9	Horn Antenna	Schwarzbeck	BBHA 9120 D	546	May 19, 2010
10	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 20, 2010
11	Microflex Cable	NA	NA	1m	May. 20, 2010
12	Microflex Cable	NA	NA	10M	Mar. 04, 2010
13	Log-Bicon Antenna	Schwarzbeck	VULB 9168	352	Jun. 17, 2010
14	Test Cable	N/A	LMR-400(3M)	N/A	Jun. 18, 2010
15	Test Cable	N/A	LMR-400(12M)	N/A	Jun. 18, 2010
16	Pre-Amplifier	EMC	EMC330	980001	Jun. 03, 2010
17	Turn Table r	Chance Most	CM100	N/A	N/A
18	Positioning Controller	Chance Most	CM100	N/A	N/A
19	Horn Antenna	Schwarzbeck	BBHA 9170	187	Dec.12.2009

Remark: ” N/A” denotes No Model Name / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

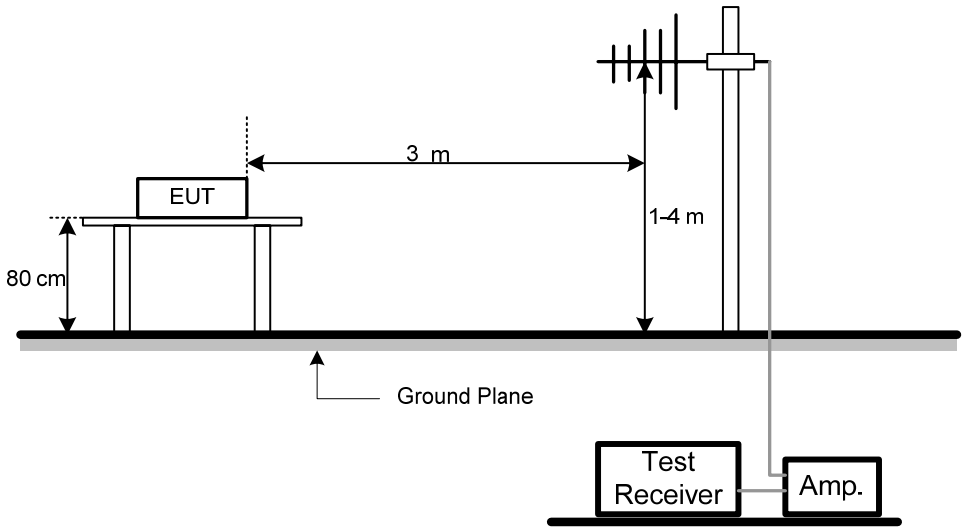
a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

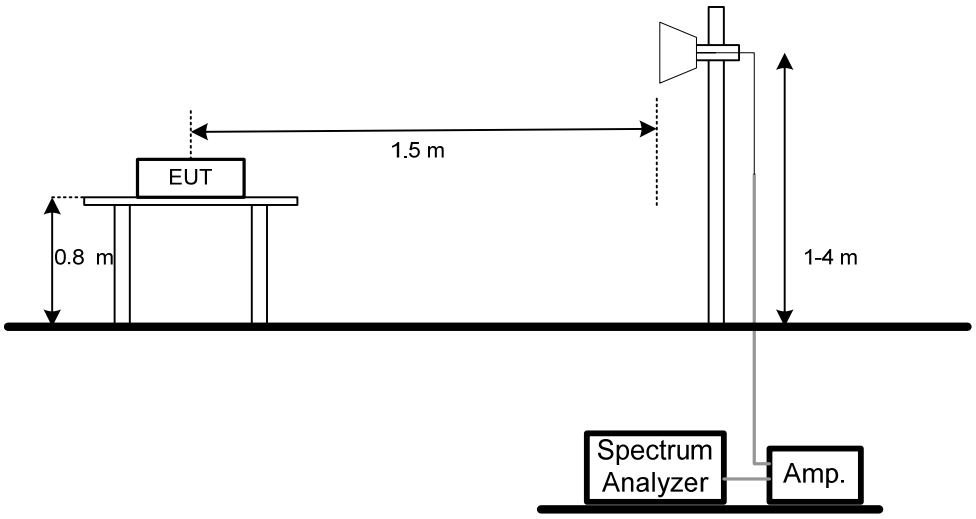
No deviation

4.2.5 TEST SETUP

Radiated Emission Test Set-Up Frequency30 - 1000MHz



Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING 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.

4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	22°C	Relative Humidity：	44%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH40		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
80.44	V	61.92	-24.90	37.02	40.00	- 2.98	
249.22	V	56.17	-22.00	34.17	46.00	- 11.83	
350.10	V	53.21	-19.42	33.79	46.00	- 12.21	
365.62	V	57.69	-19.09	38.60	46.00	- 7.40	
433.52	V	55.98	-17.37	38.61	46.00	- 7.39	
701.24	V	49.92	-12.54	37.38	46.00	- 8.62	

Remark：

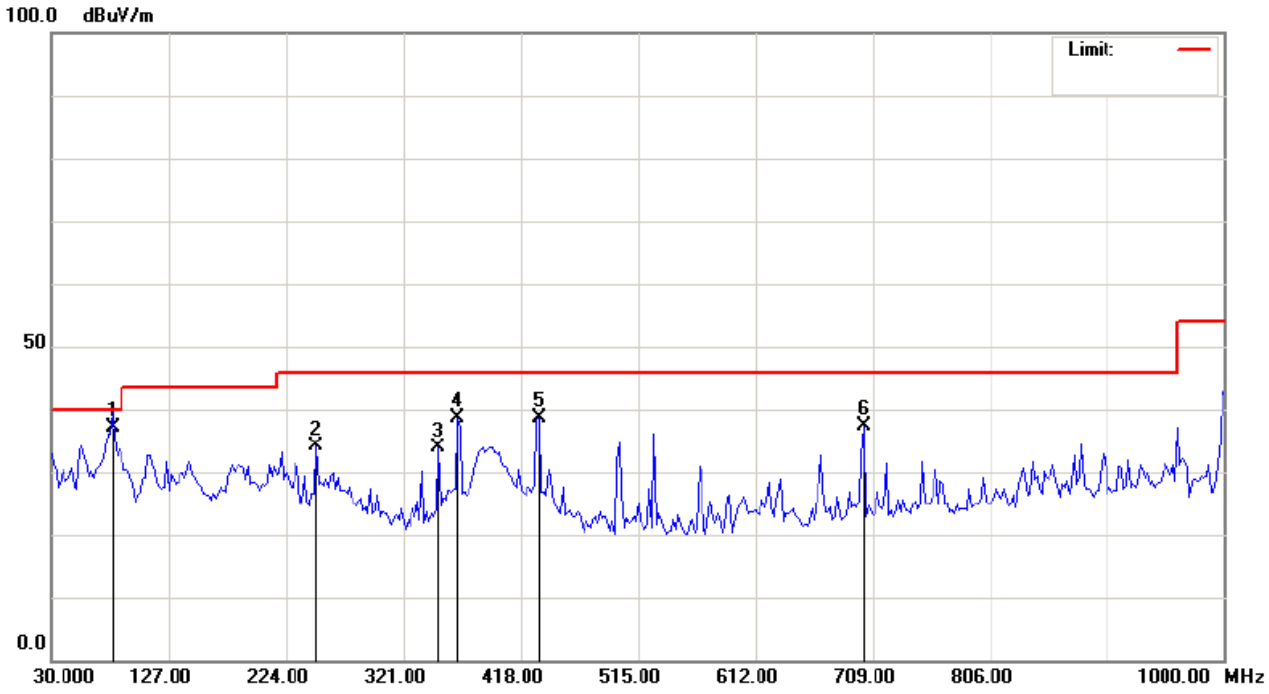
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.

(4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(5) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	22°C	Relative Humidity：	44%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH40		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
80.44	H	62.58	-24.90	37.68	40.00	- 2.32	
249.22	H	65.24	-22.00	43.24	46.00	- 2.76	
336.52	H	59.07	-19.71	39.36	46.00	- 6.64	
350.10	H	61.16	-19.42	41.74	46.00	- 4.26	
365.62	H	63.00	-19.09	43.91	46.00	- 2.09	
433.52	H	57.82	-17.37	40.45	46.00	- 5.55	
499.48	H	55.45	-16.30	39.15	46.00	- 6.85	
528.58	H	49.35	-15.70	33.65	46.00	- 12.35	
701.24	H	51.72	-12.54	39.18	46.00	- 6.82	

Remark：

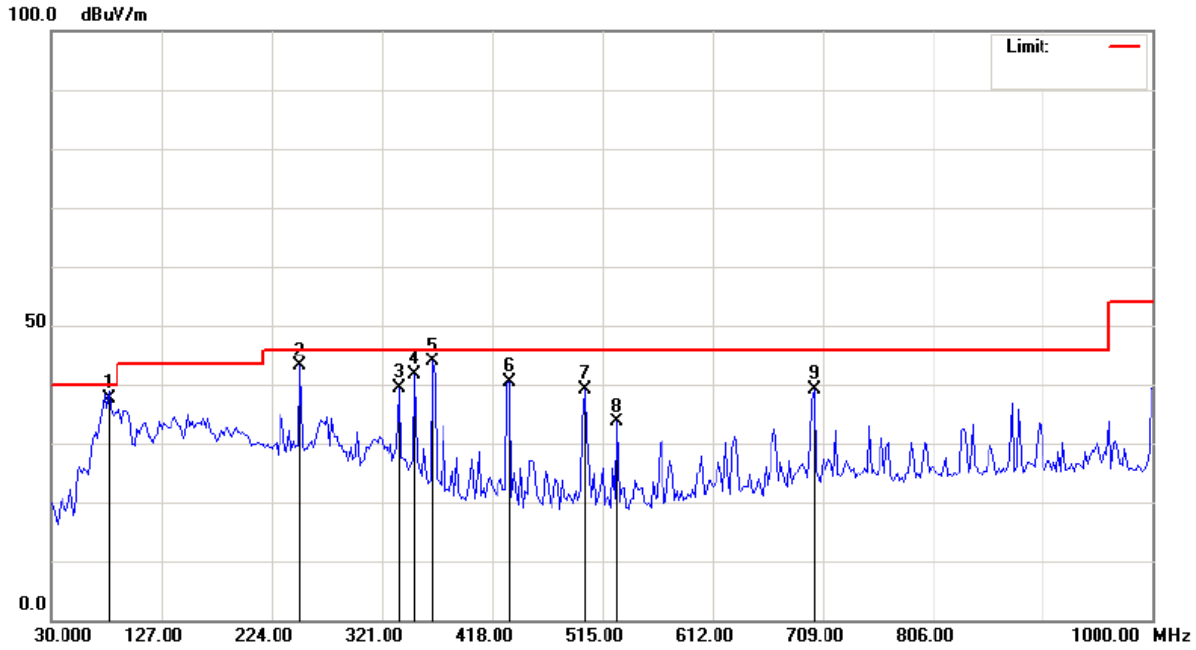
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.

(4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(5) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



4.2.8 TEST RESULTS - ABOVE 1000MHZ - BAND 1

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	34°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH36		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.42	18.42	39.97	70.39	58.39	74.30	60.00	Y/E
5185.20	V	74.89	64.39	40.03	114.92	104.42			Y/F
10358.24	V	45.20	32.53	16.25	61.45	48.78	74.30	74.30	Y/H
15542.80	V	48.07	35.90	18.31	66.38	54.21	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

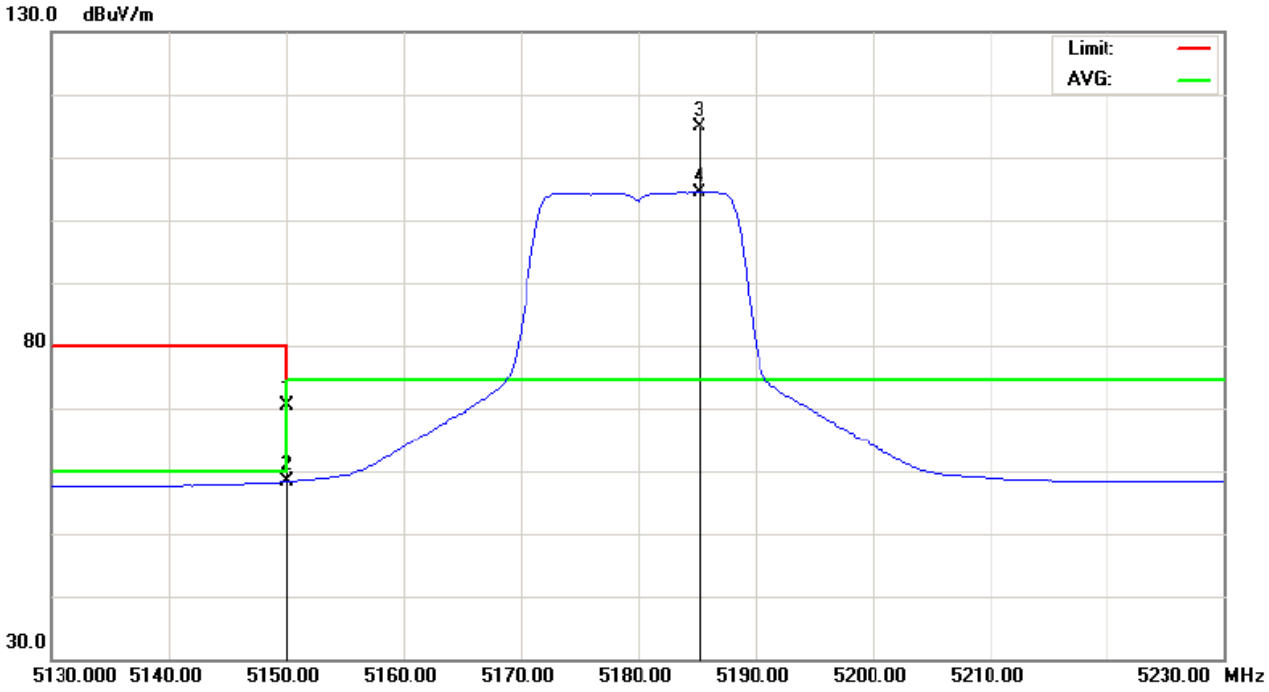
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

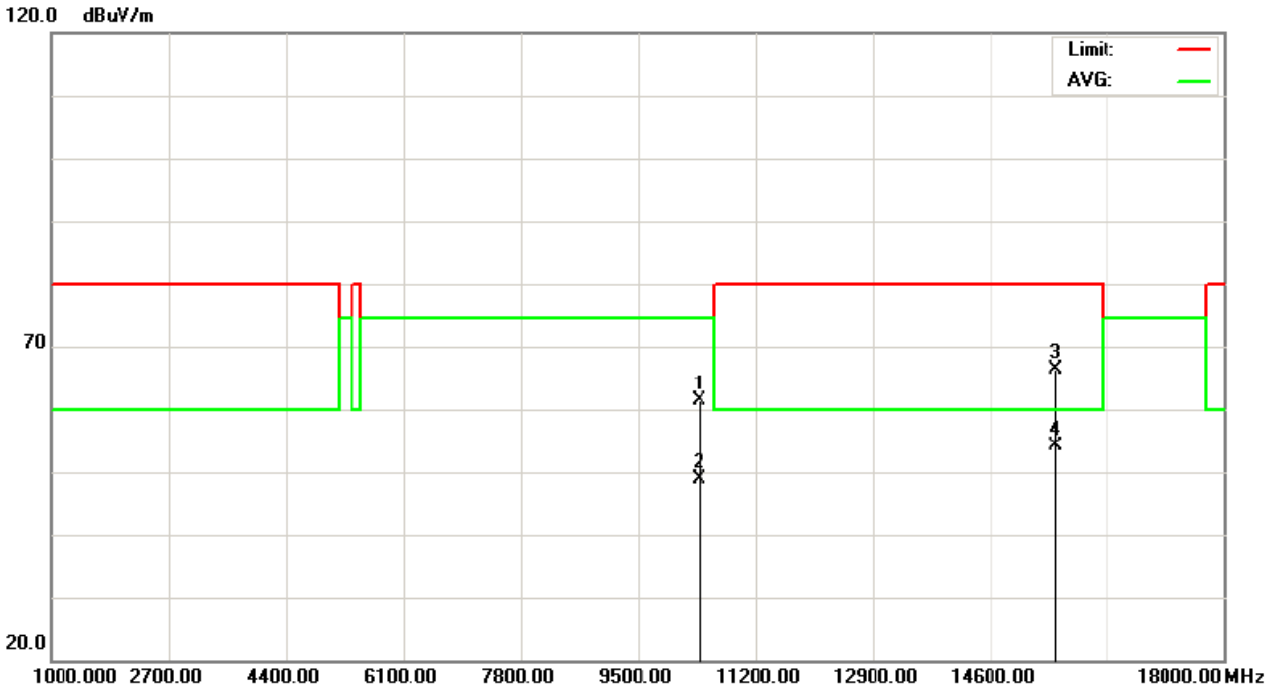
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH36(Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	34°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH36		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	29.25	18.11	39.97	69.22	58.08	74.30	60.00	Y/E
5185.80	H	69.75	59.86	40.03	109.78	99.89			Y/F
10362.64	H	42.45	32.54	16.26	58.71	48.80	74.30	74.30	Y/H
15541.68	H	47.85	35.42	18.32	66.17	53.74	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

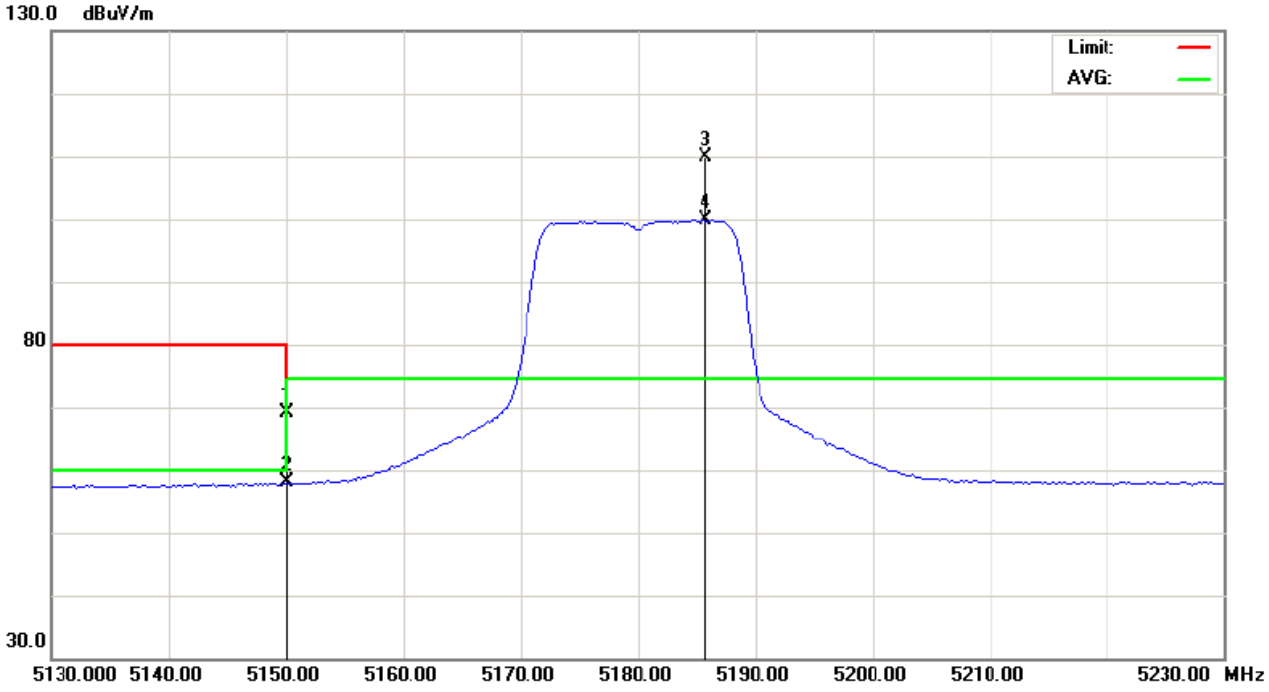
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

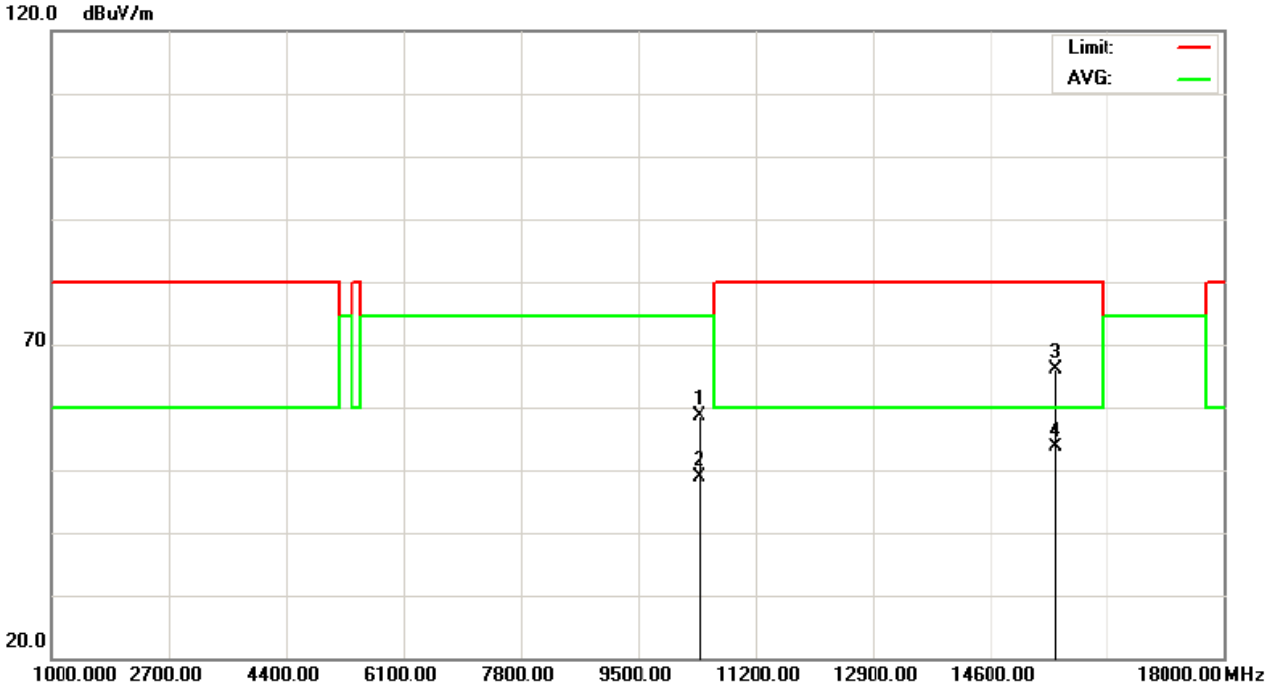
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH36(Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	34°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH40		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5205.40	V	73.64	63.28	40.07	113.71	103.35			Y/F
10400.04	V	46.23	33.58	16.38	62.61	49.96	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

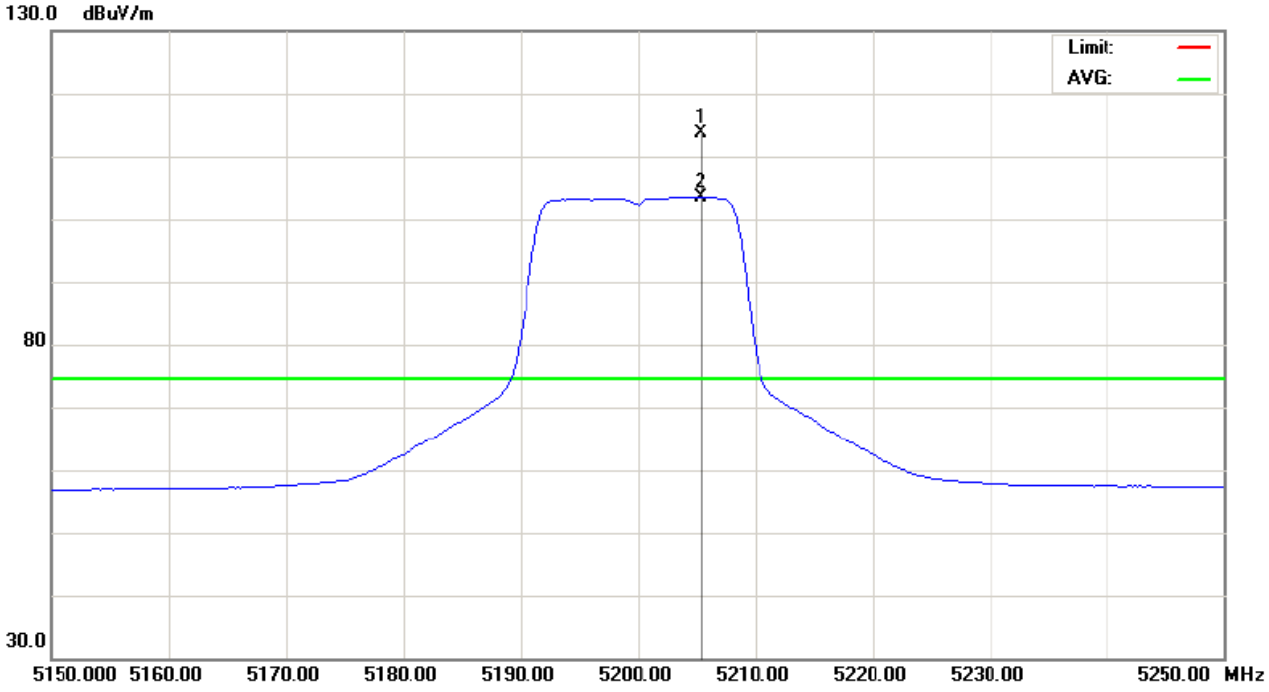
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

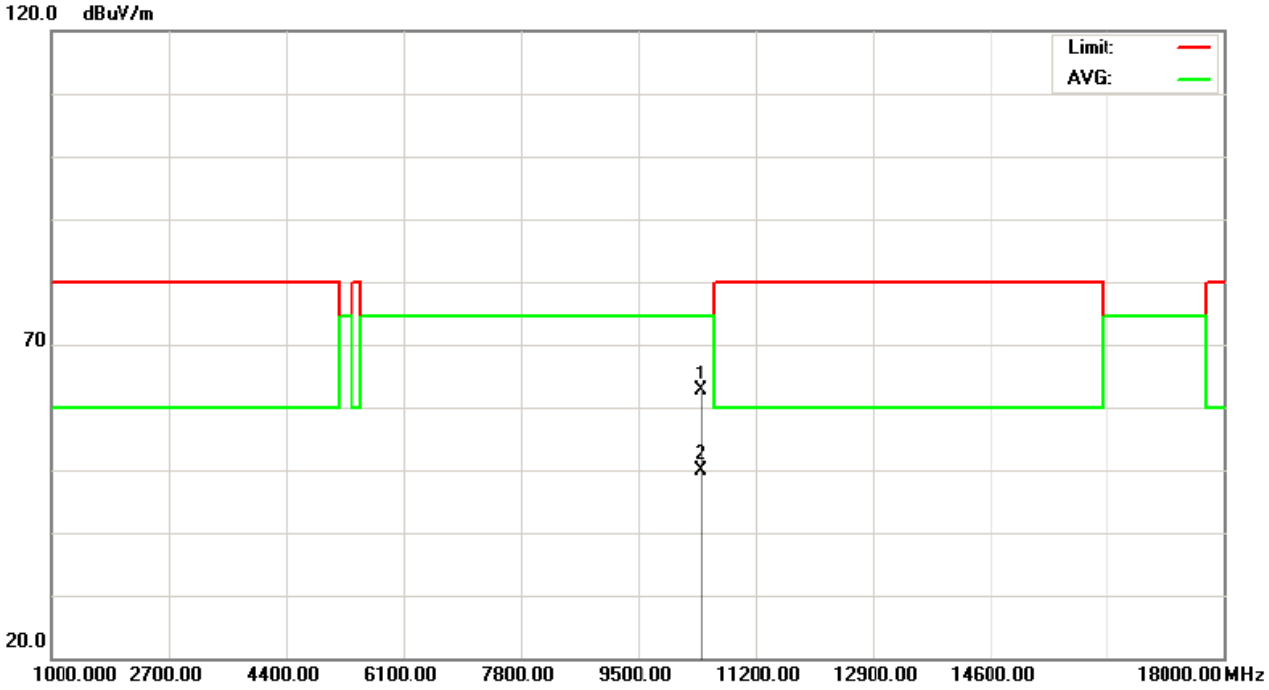
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH40(Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	34°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH40		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5194.80	V	68.97	58.15	40.05	109.02	98.20			Y/F
10399.56	V	44.90	32.46	16.38	61.28	48.84	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

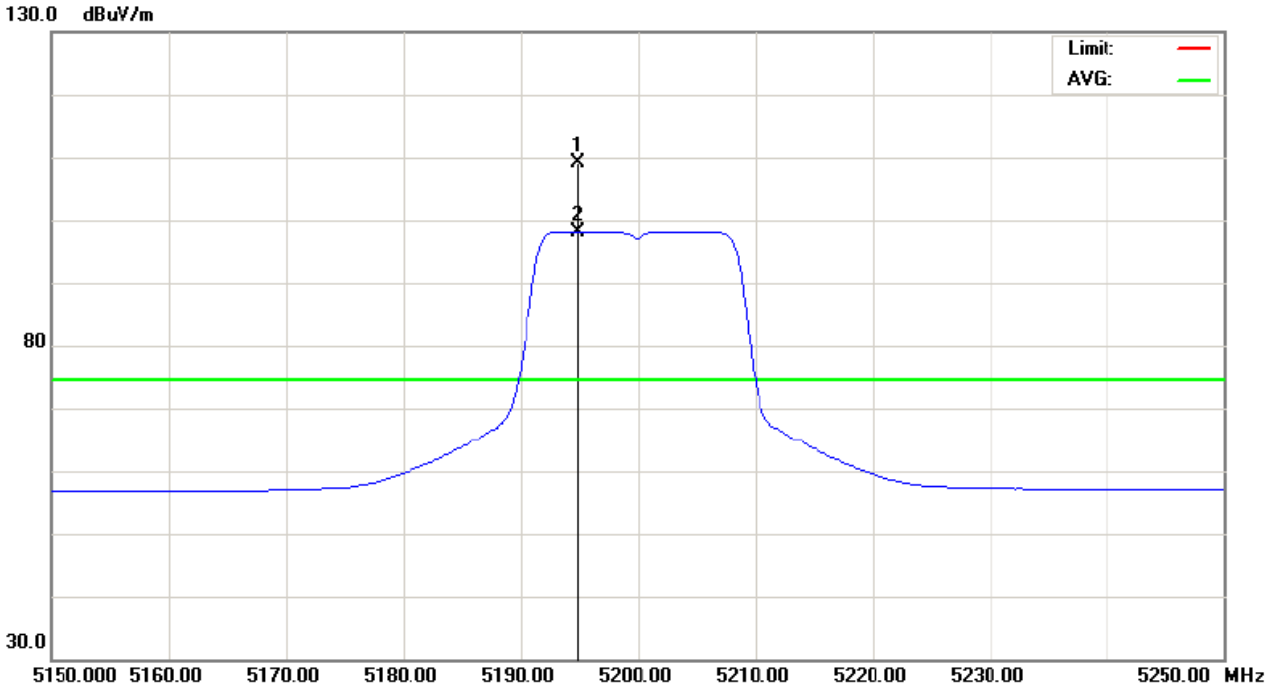
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

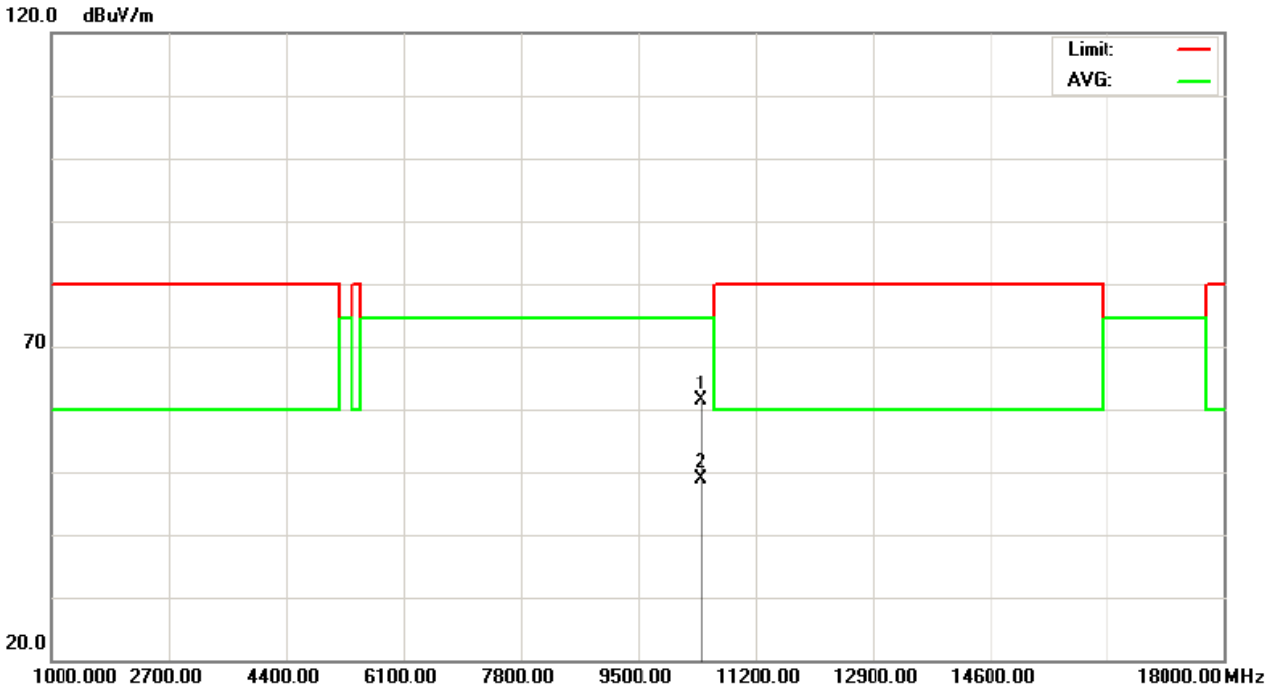
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH40(Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	24.9°C	Relative Humidity :	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH48		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5246.80	V	74.98	64.58	40.14	115.12	104.72			Y/F
10481.00	V	50.93	36.00	16.64	67.57	52.64	74.30	74.30	Y/E

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

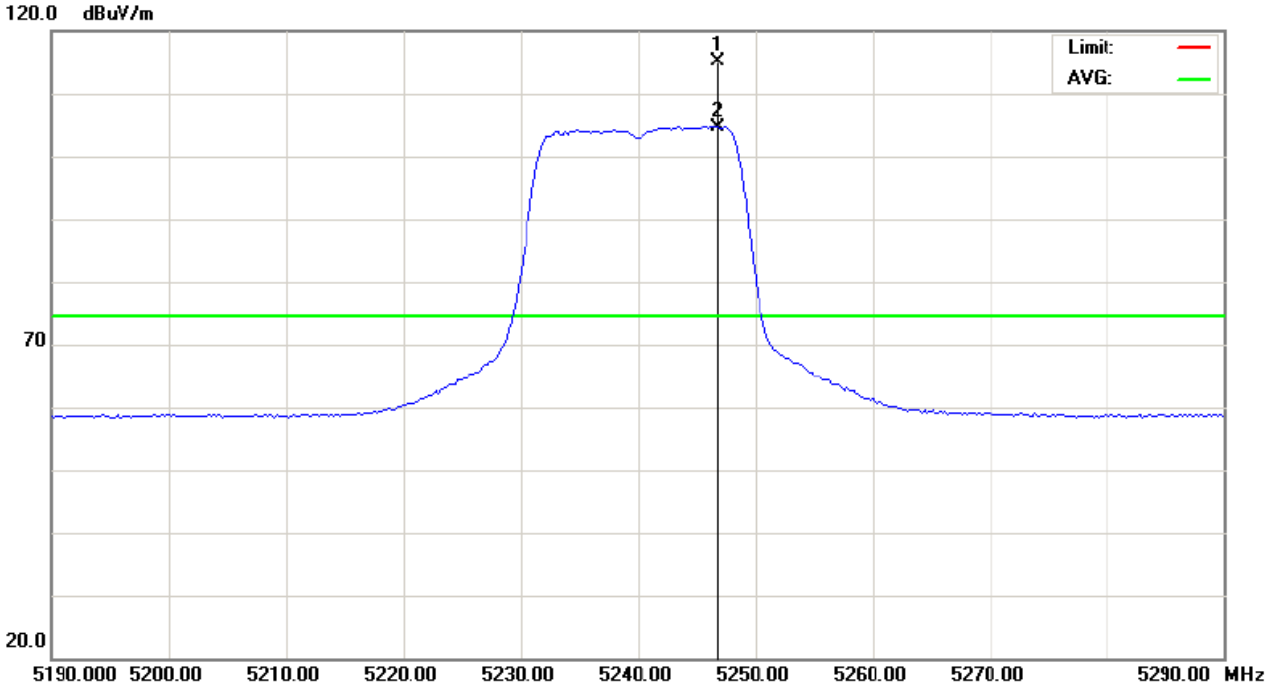
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

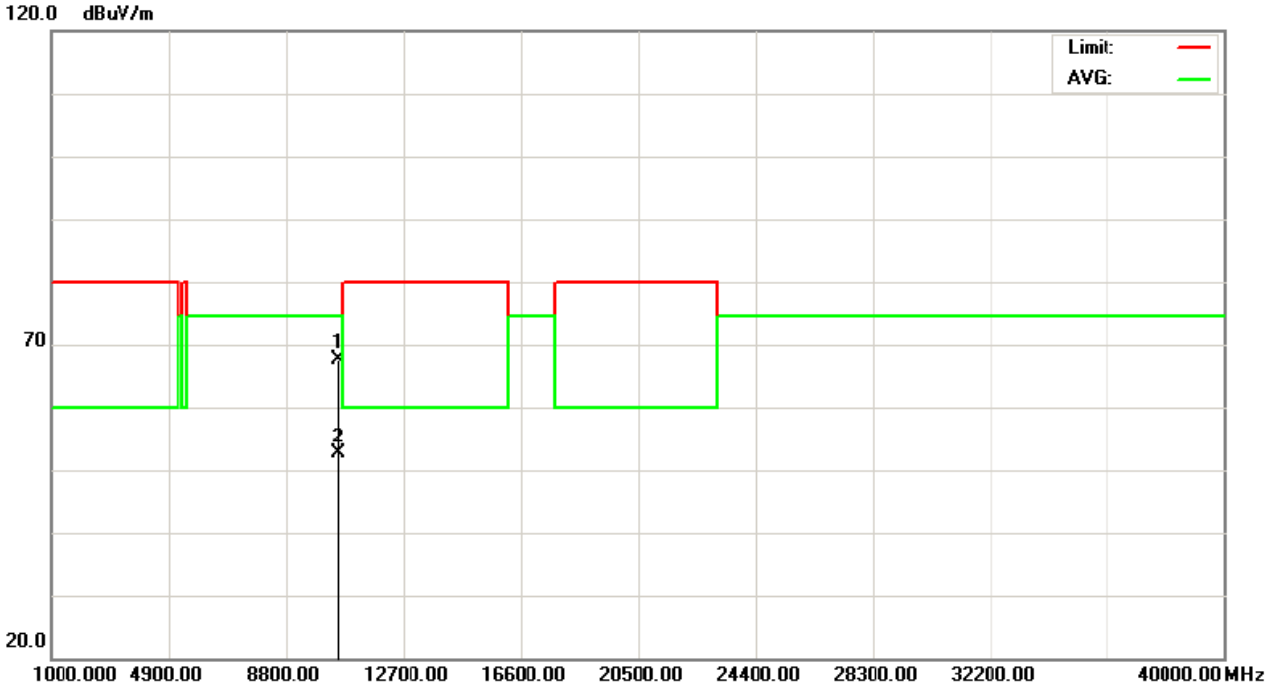
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH48(Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	24.9°C	Relative Humidity :	52 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH48		

(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5244.80	H	65.88	56.77	40.14	106.02	96.91			Y/F
10482.38	H	44.37	33.48	16.64	61.01	50.12	74.30	74.30	Y/E

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

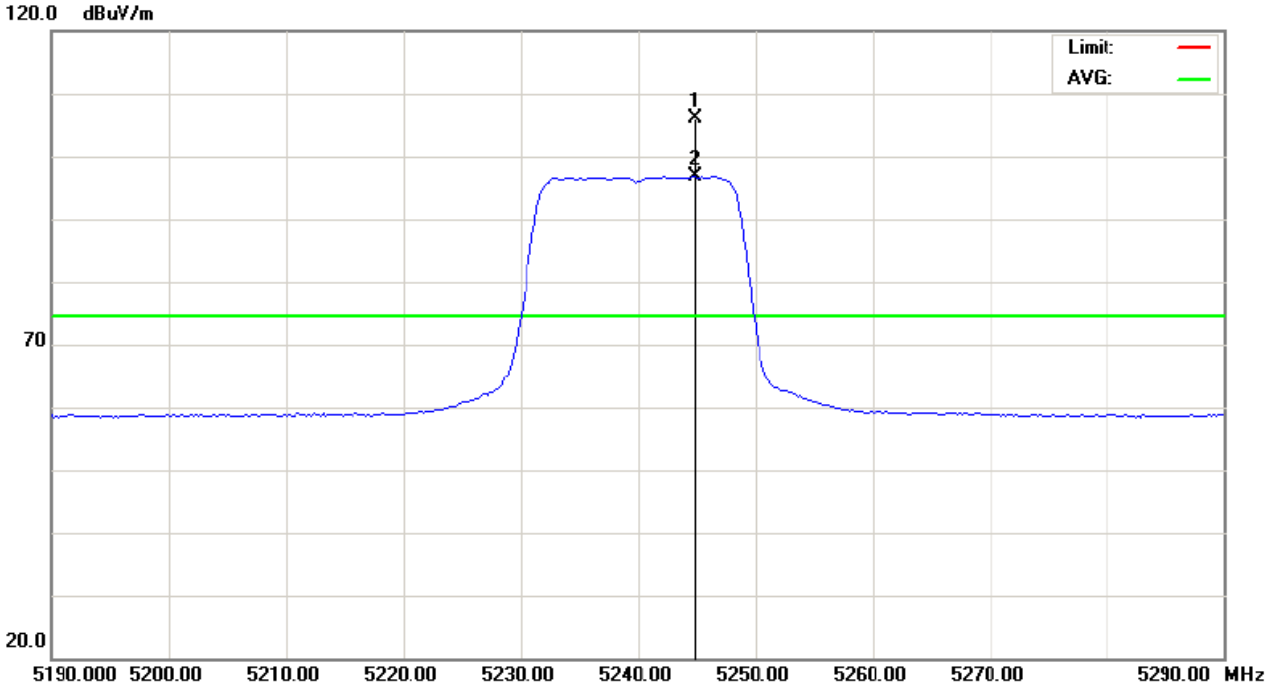
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

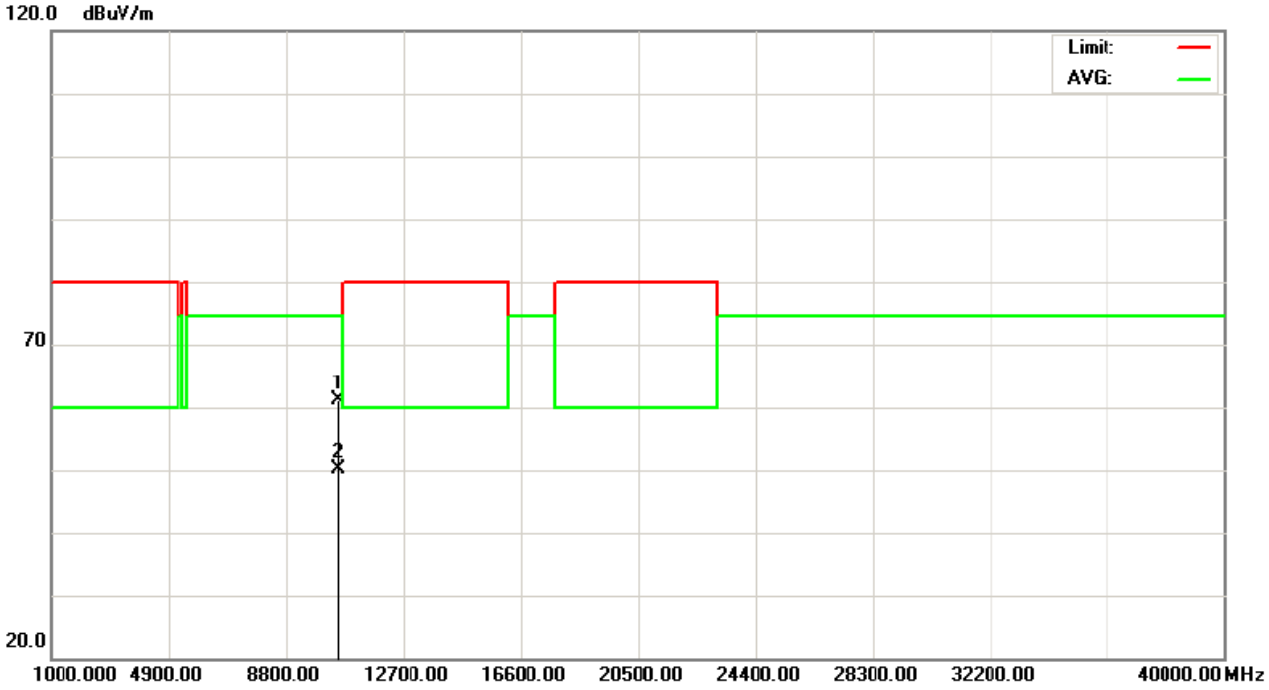
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH48(Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.60	18.31	39.97	70.57	58.28	74.30	60.00	Y/E
5186.80	V	77.10	64.72	40.04	117.14	104.76			Y/F
10360.76	V	50.22	36.44	16.25	66.47	52.69	74.00	54.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

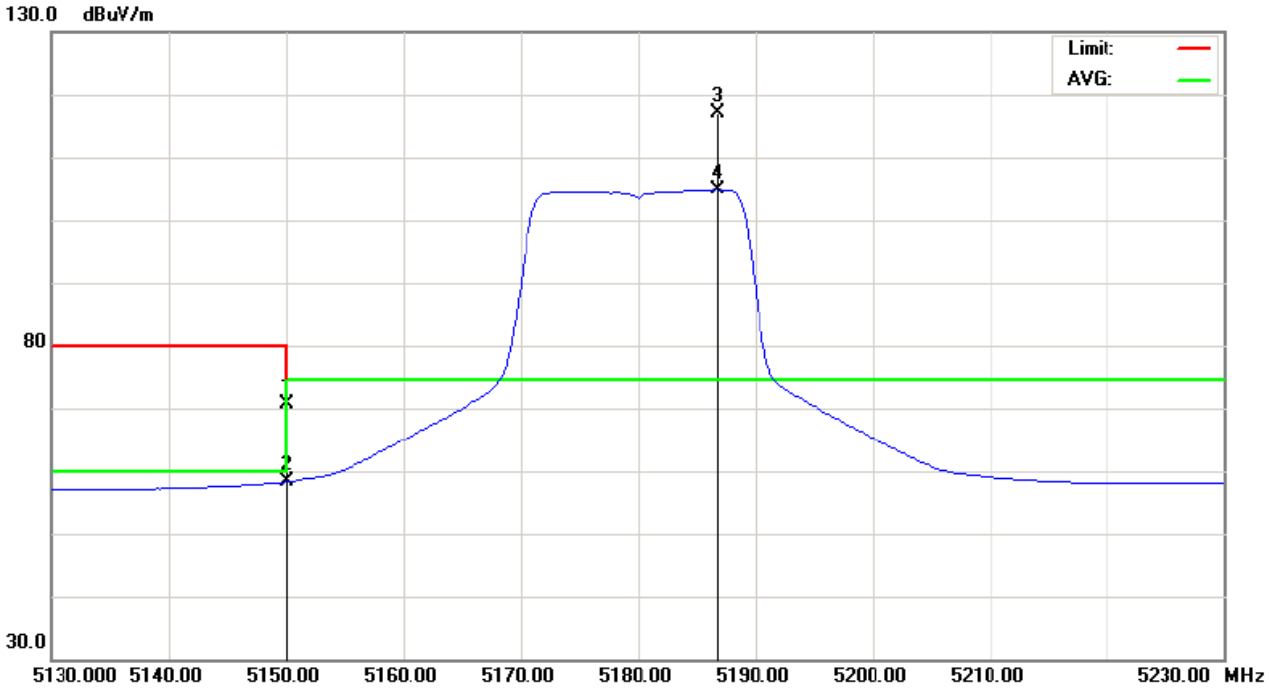
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

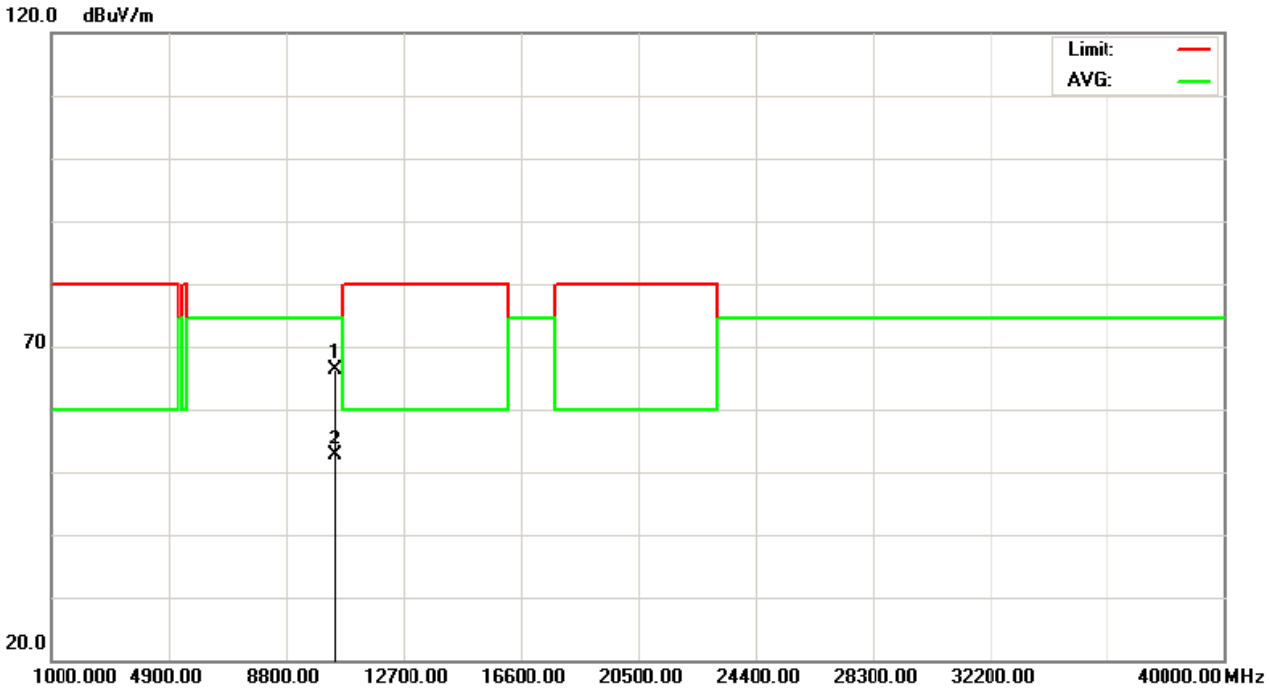
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH36(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	30.54	17.69	39.97	70.51	57.66	74.30	60.00	Y/E
5186.00	H	73.53	61.14	40.03	113.56	101.17			Y/F
10359.29	H	45.34	33.02	16.25	61.59	49.27	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

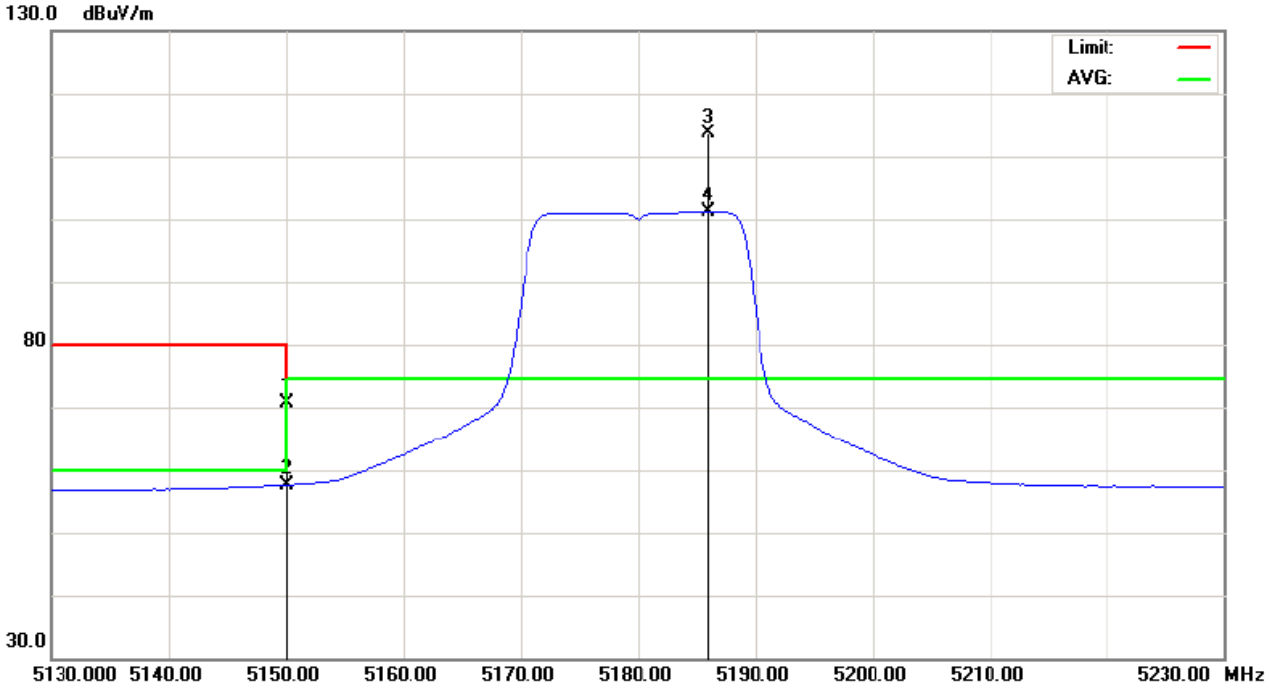
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

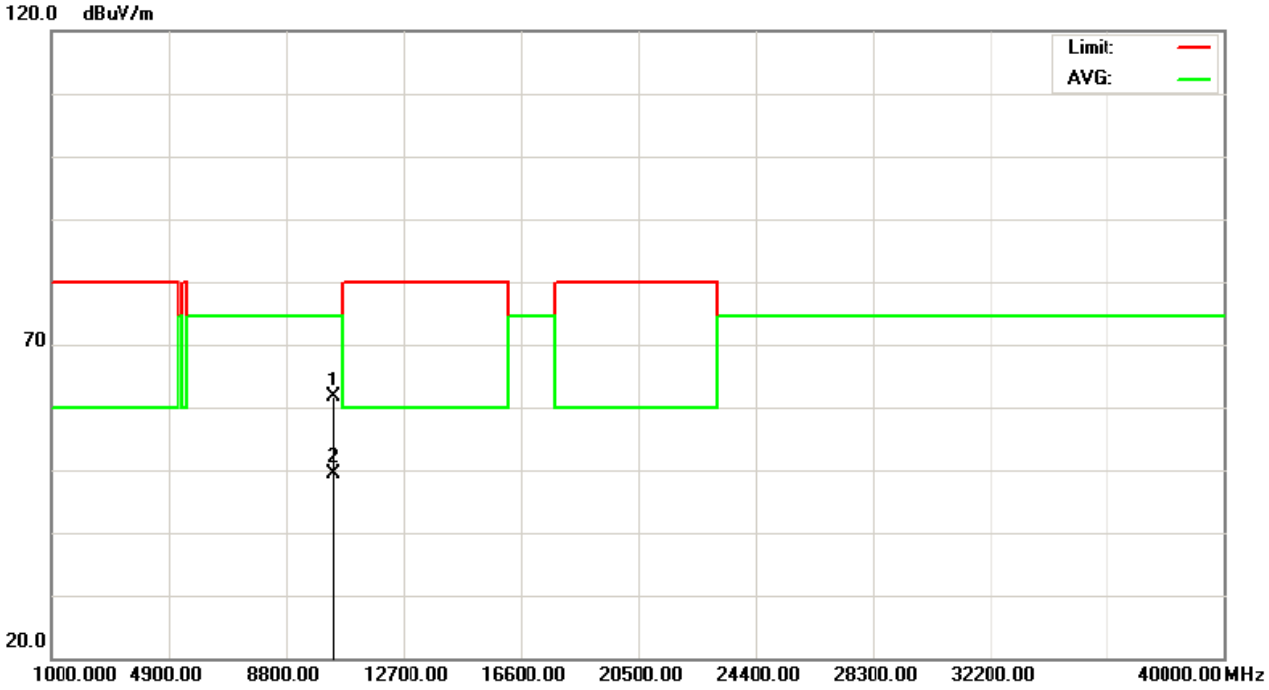
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH36(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH40		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5206.00	V	77.40	64.86	40.07	117.47	104.93			Y/F
10400.84	V	49.29	35.43	16.38	65.67	51.81	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

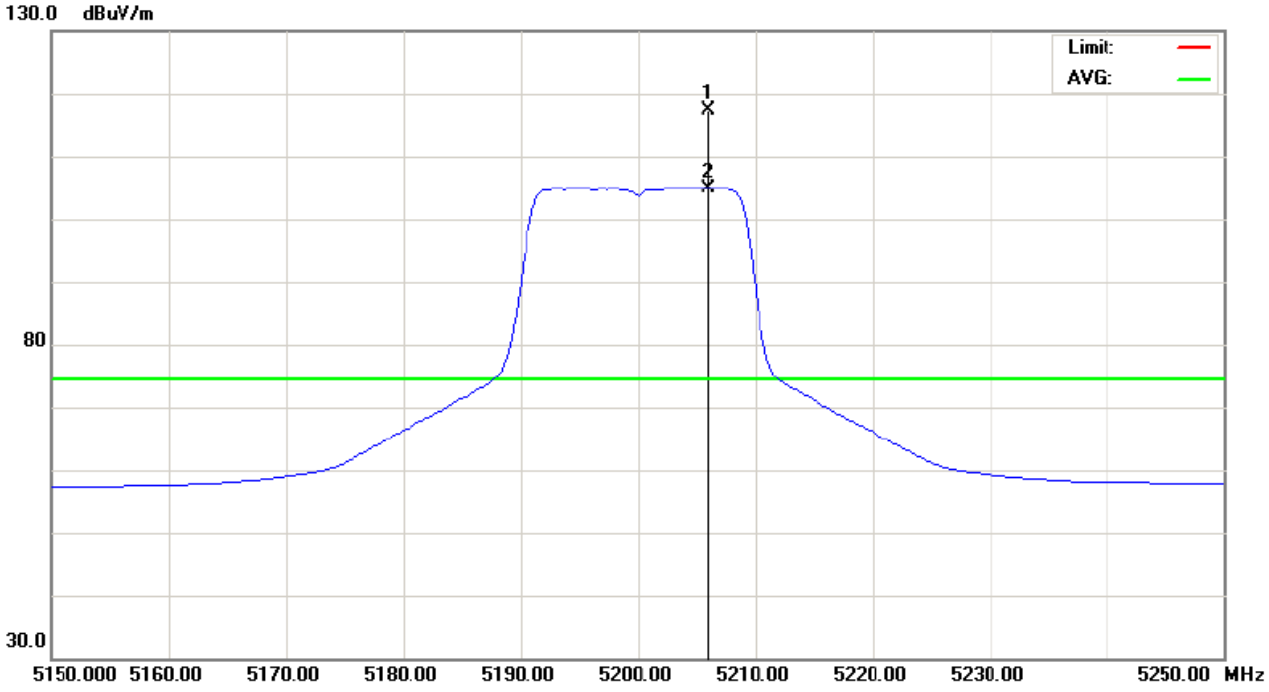
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

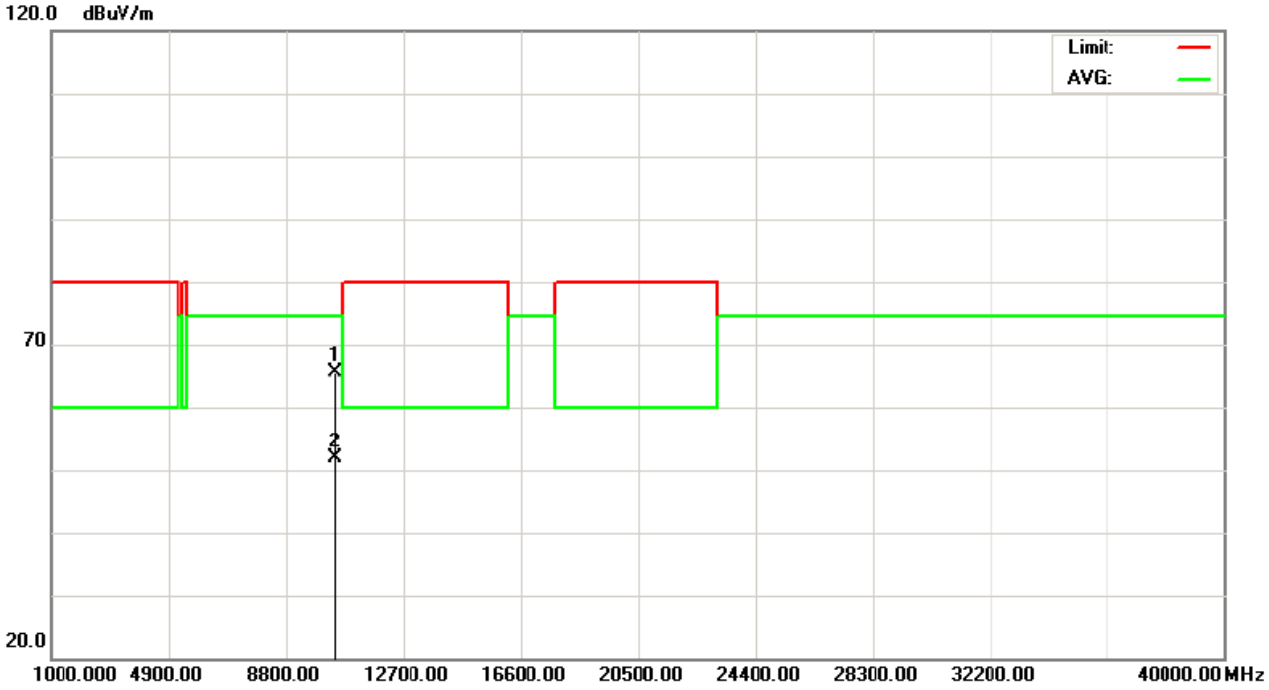
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH40(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH40		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5193.20	H	73.63	61.14	40.05	113.68	101.19			Y/F
10402.20	H	44.33	33.64	16.39	60.72	50.03	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

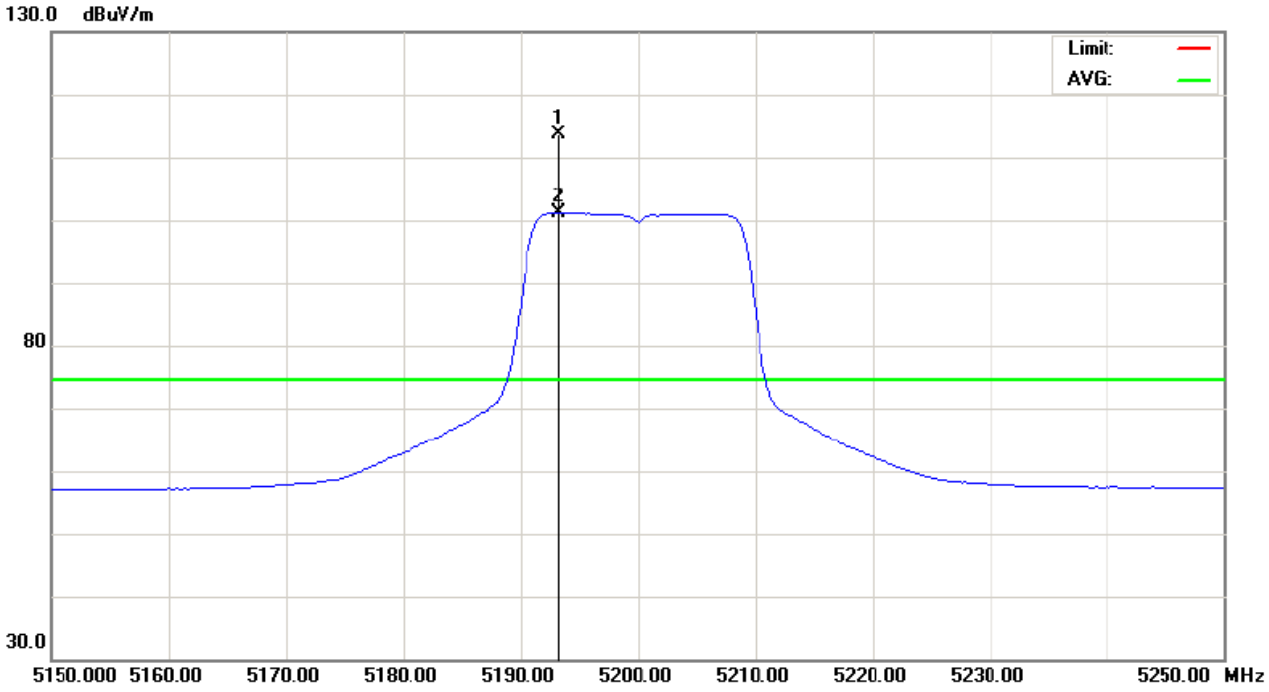
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

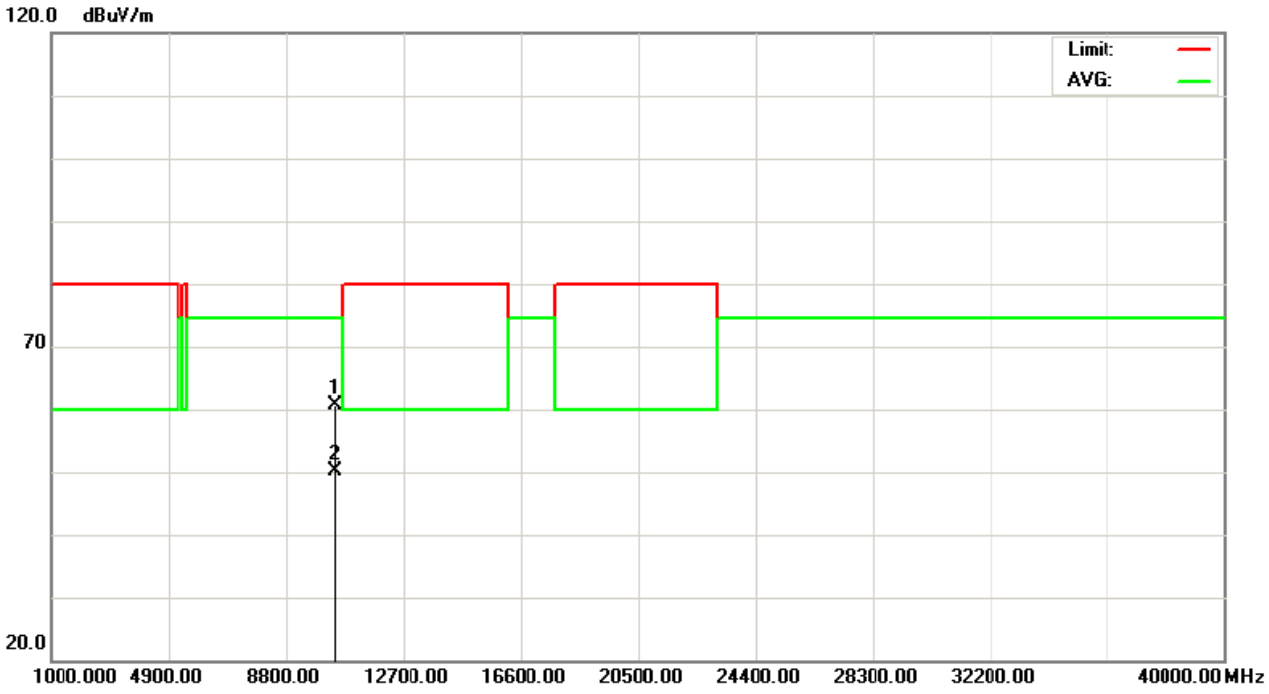
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH40(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	24.9°C	Relative Humidity :	52%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH48		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5245.00	V	73.50	62.55	40.14	113.64	102.69			Y/F
10480.48	V	49.52	36.01	16.64	66.16	52.65	74.30	74.30	Y/E

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

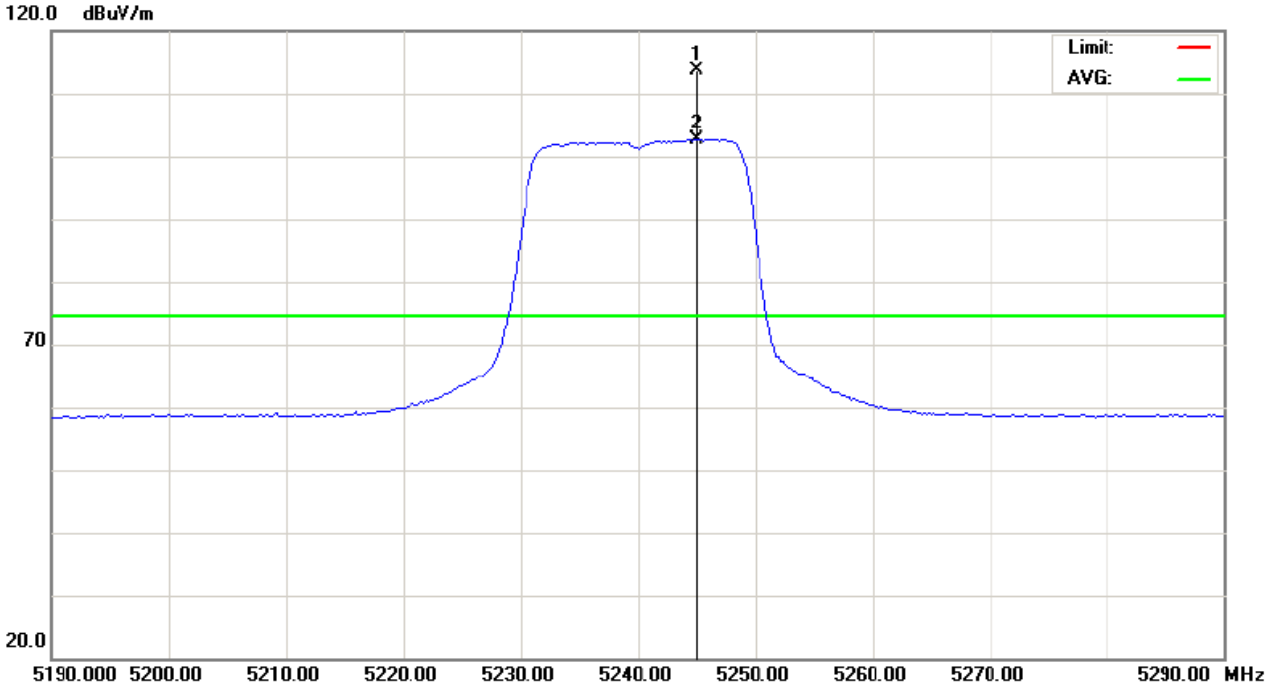
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

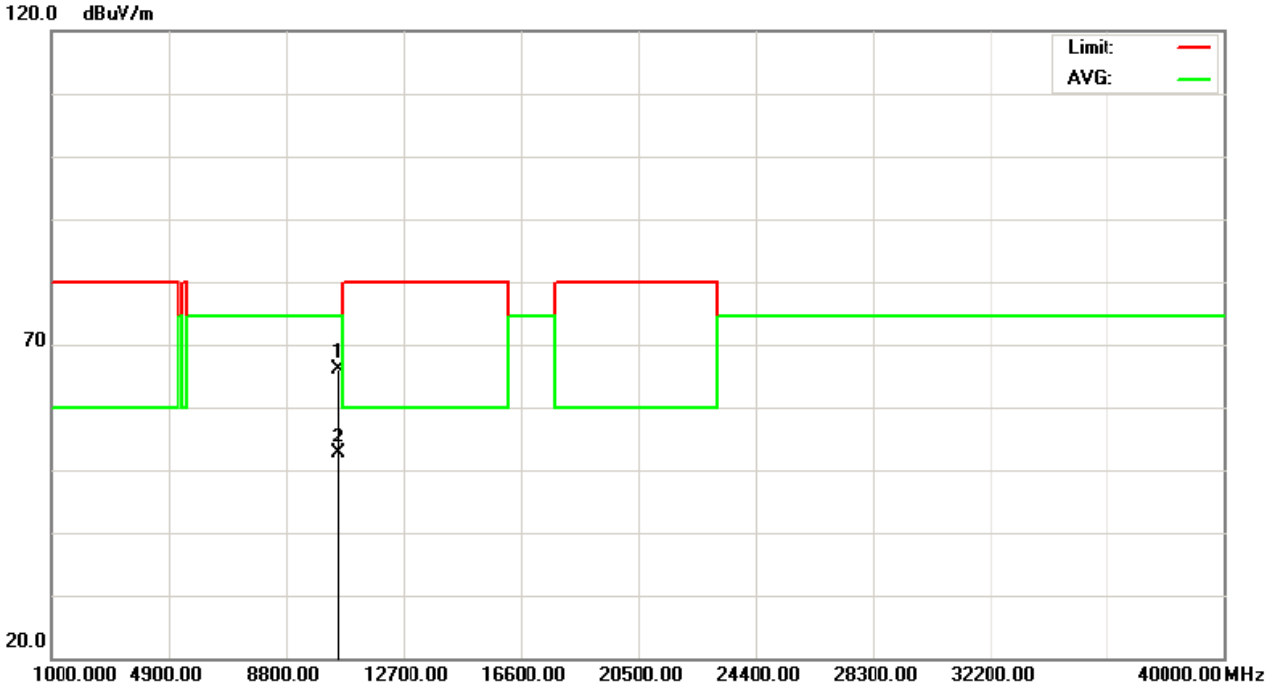
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH48(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	24.9°C	Relative Humidity :	52%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH48		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5246.40	H	70.93	60.03	40.14	111.07	100.17			Y/F
10481.33	H	44.68	3.96	16.64	61.32	20.60	74.30	74.30	Y/E

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

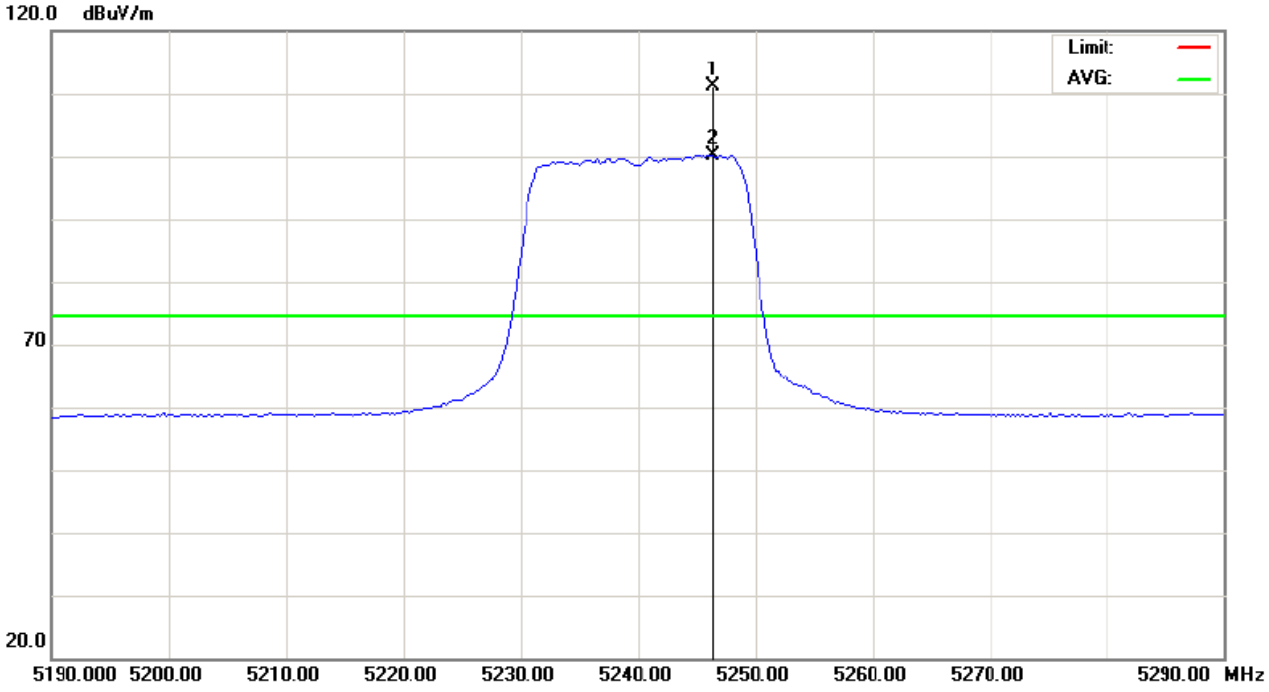
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

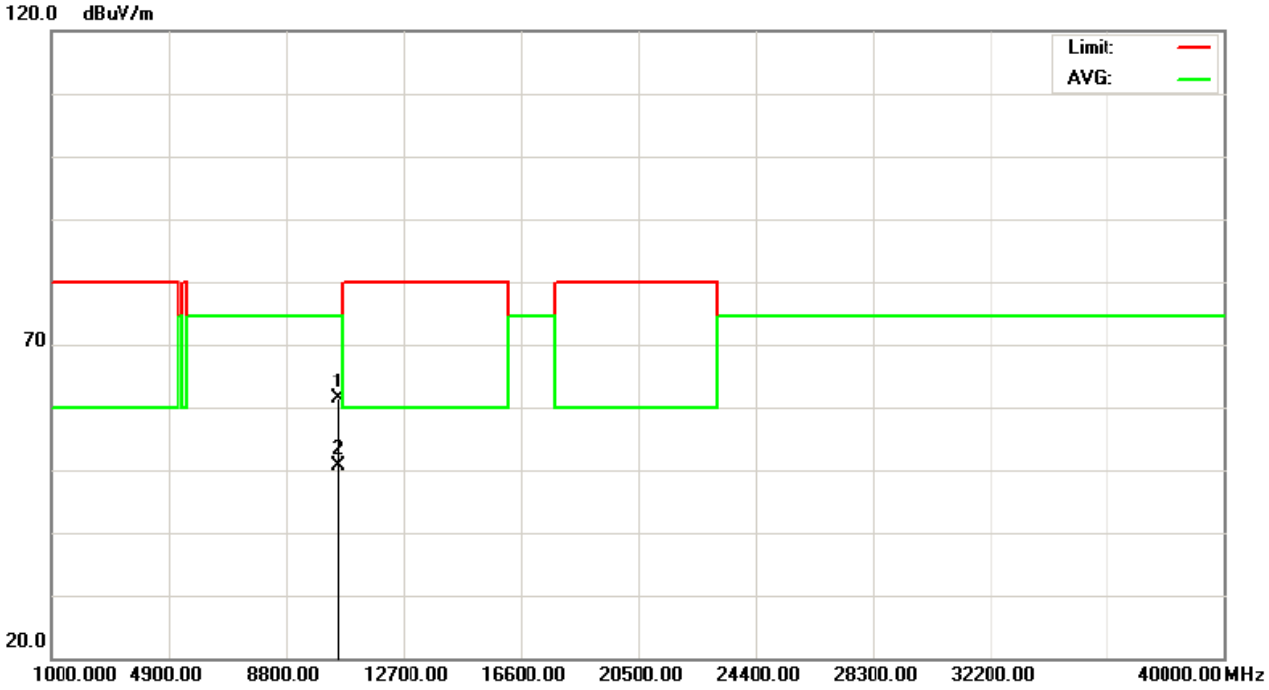
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/20M/CH48(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.50	19.12	39.97	70.47	59.09	74.30	60.00	Y/E
5197.20	V	69.42	57.48	40.05	109.47	97.53			Y/F
10362.10	V	44.46	32.17	16.26	60.72	48.43	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

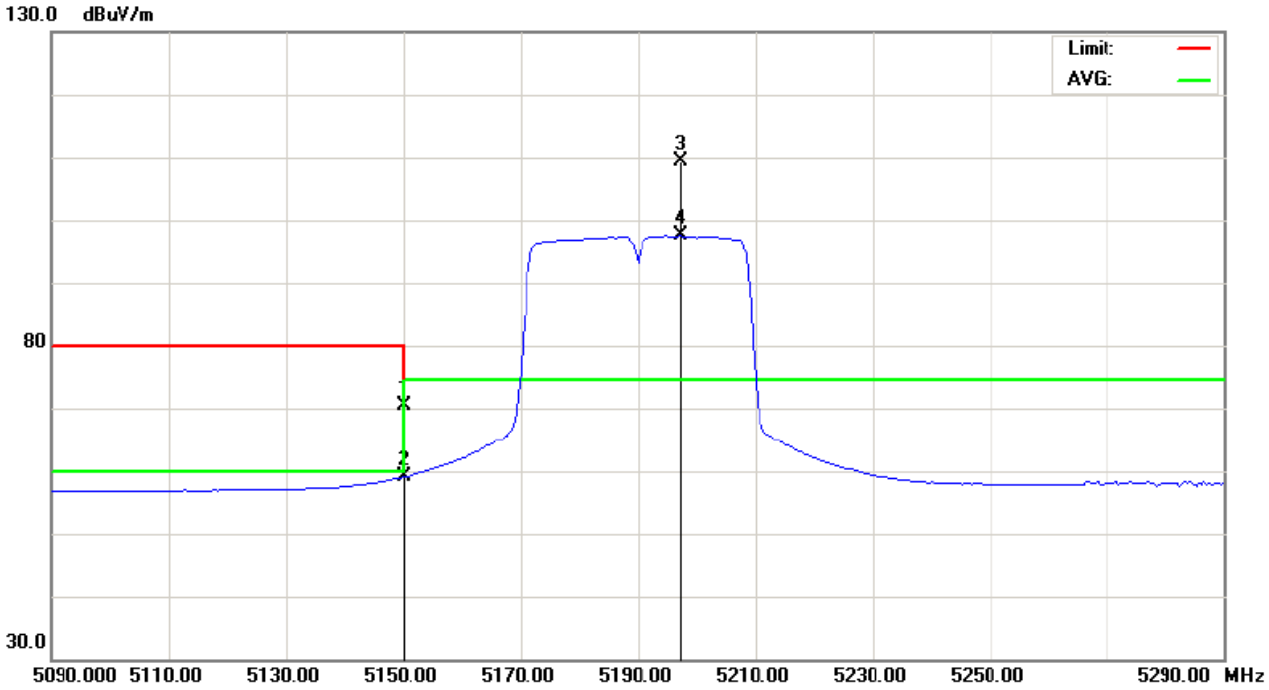
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

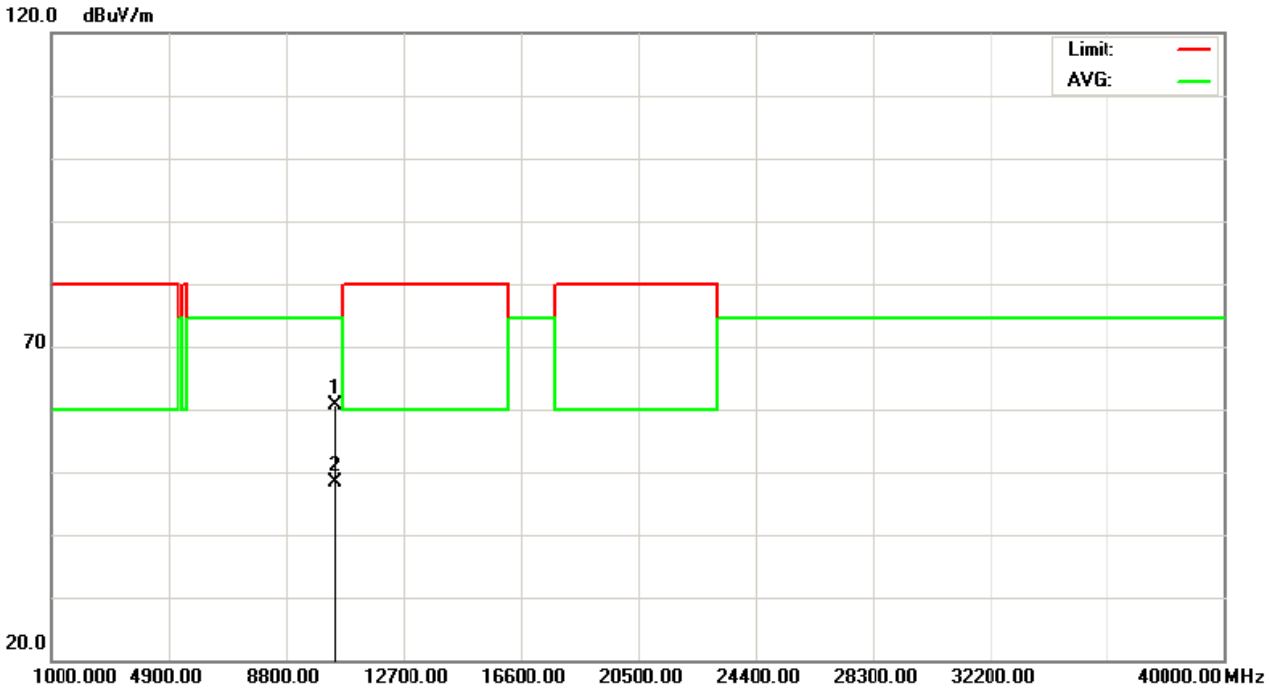
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/40M/CH38(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	28.70	17.97	39.97	68.67	57.94	74.30	60.00	Y/E
5185.60	H	66.55	53.82	40.03	106.58	93.85			Y/F
10356.40	H	44.75	31.44	16.24	60.99	47.68	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

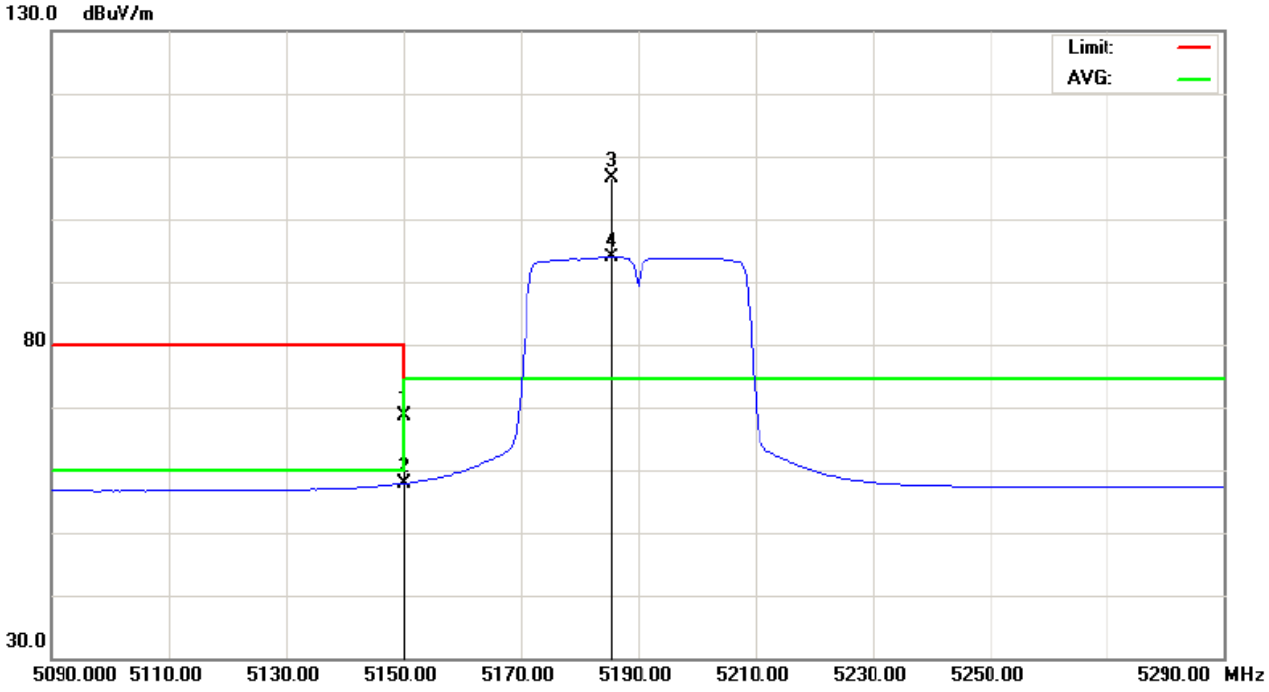
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

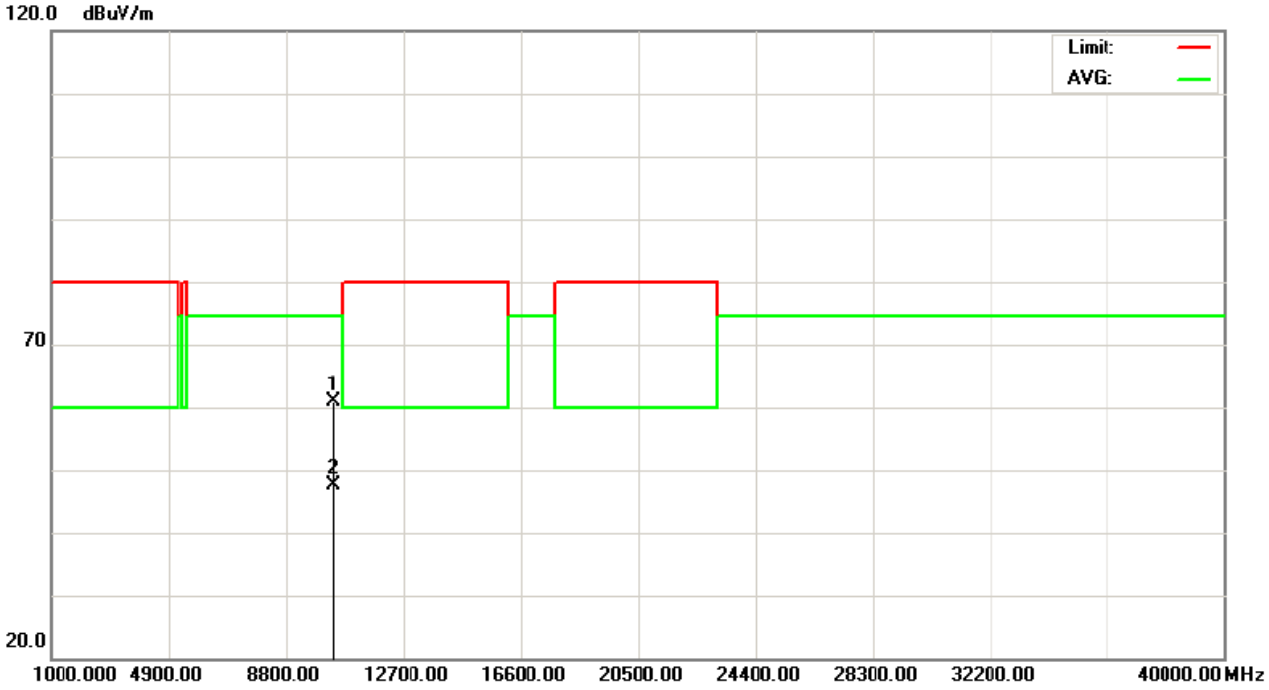
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/40M/CH38(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH46		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5243.20	V	70.97	58.39	40.14	111.11	98.53			Y/F
10460.32	V	44.71	32.76	16.57	61.28	49.33	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

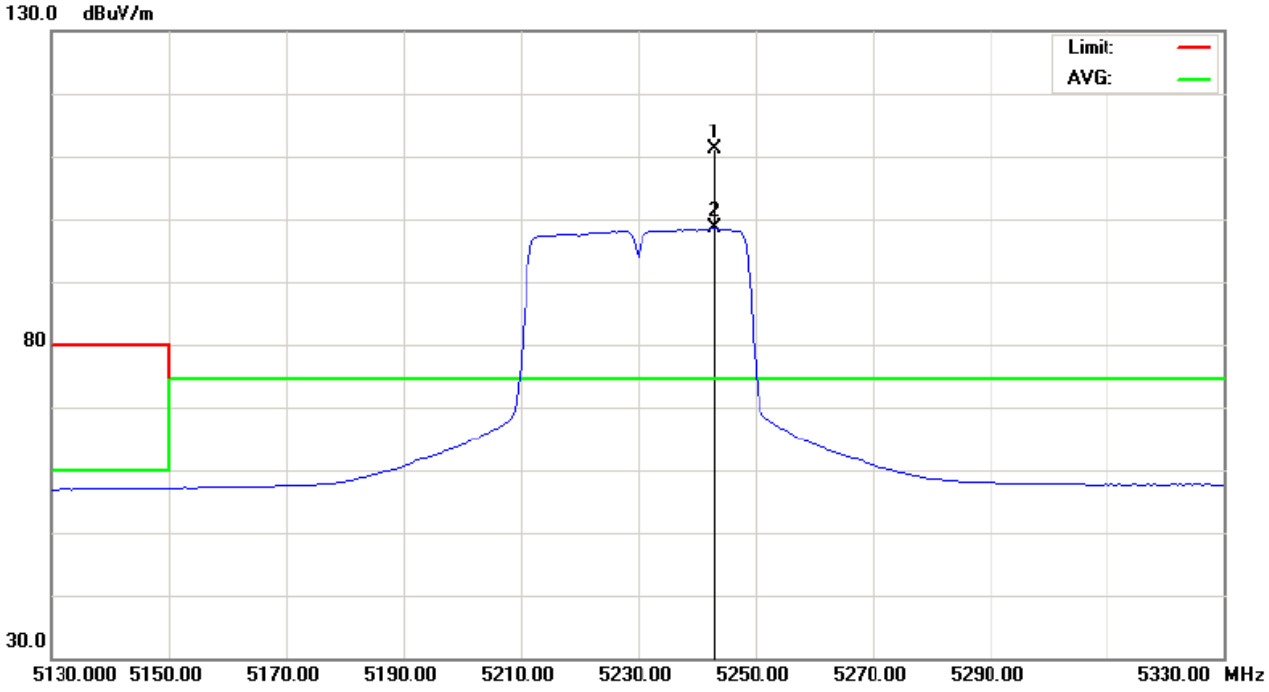
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

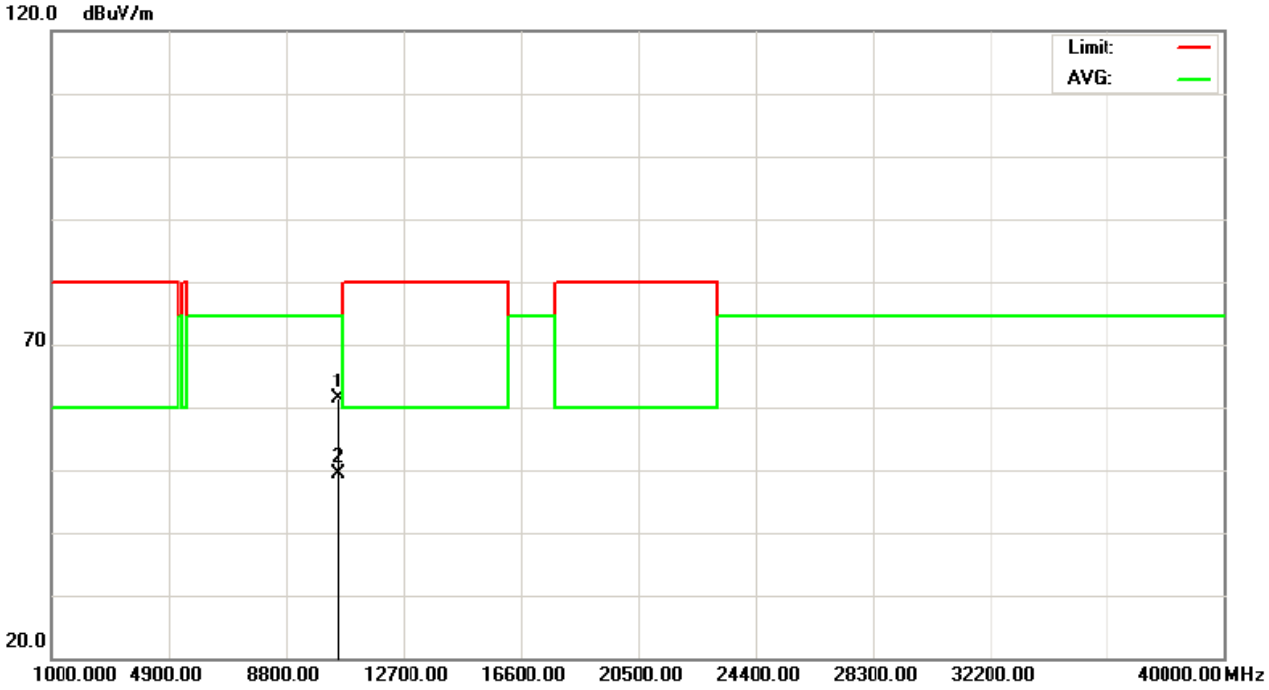
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/40M/CH46(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH46		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5241.20	H	67.63	55.26	40.13	107.76	95.39			Y/F
10465.00	H	44.30	31.88	16.59	60.89	48.47	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

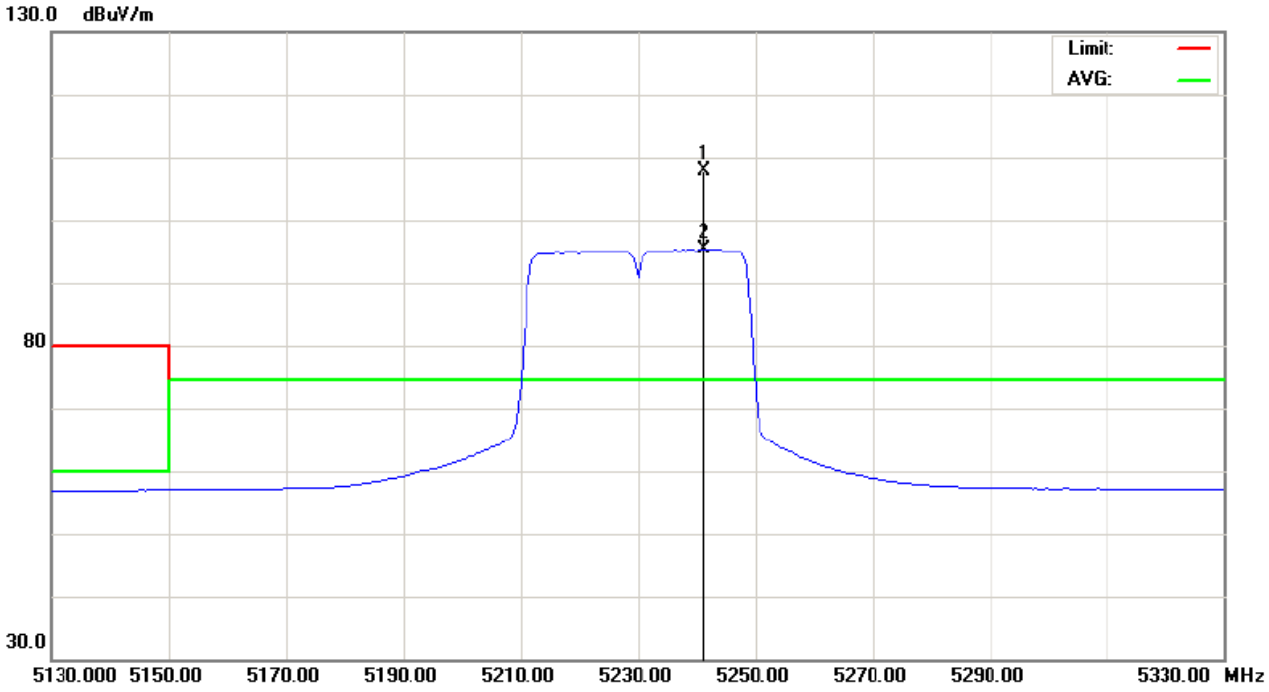
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

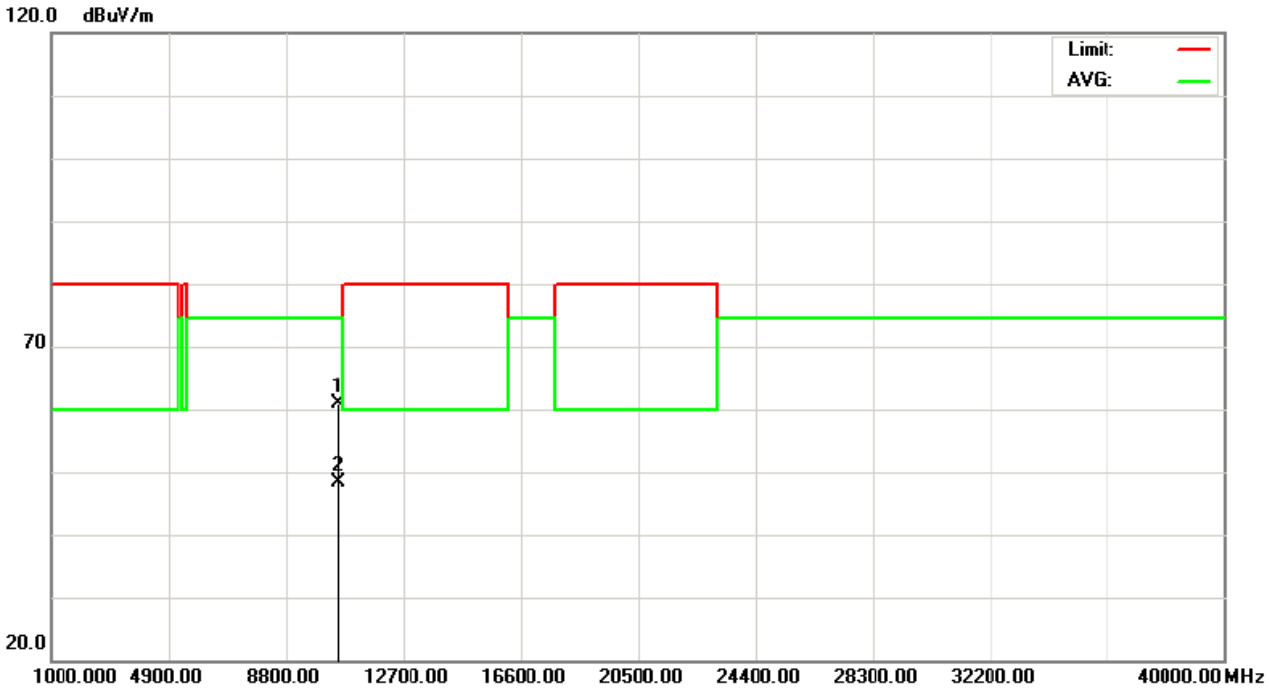
(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y

802.11n/40M/CH46(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





4.2.9 TEST RESULTS - ABOVE 1000MHZ - BAND 2

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH52		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5264.40	V	79.83	68.35	39.39	119.22	107.74			Y/F
10520.80	V	48.97	36.71	14.35	63.32	51.06	74.30	74.30	Y/H
15781.00	V	58.04	41.32	14.50	72.54	55.82	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

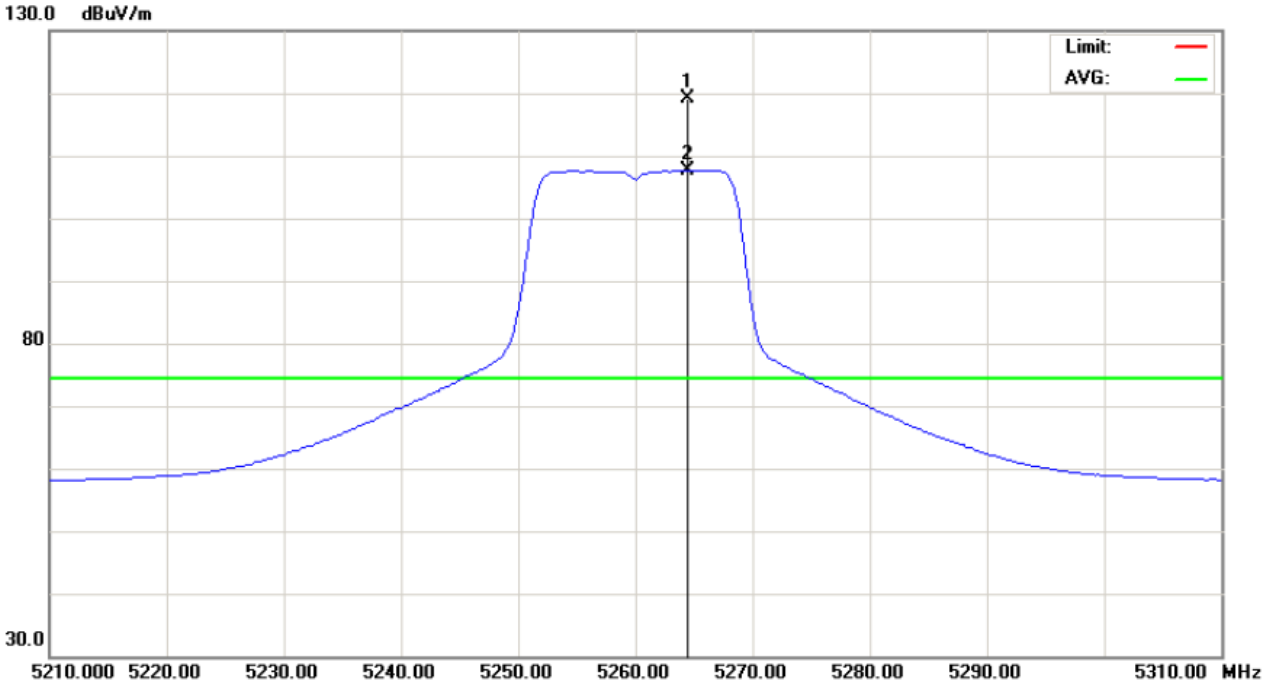
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

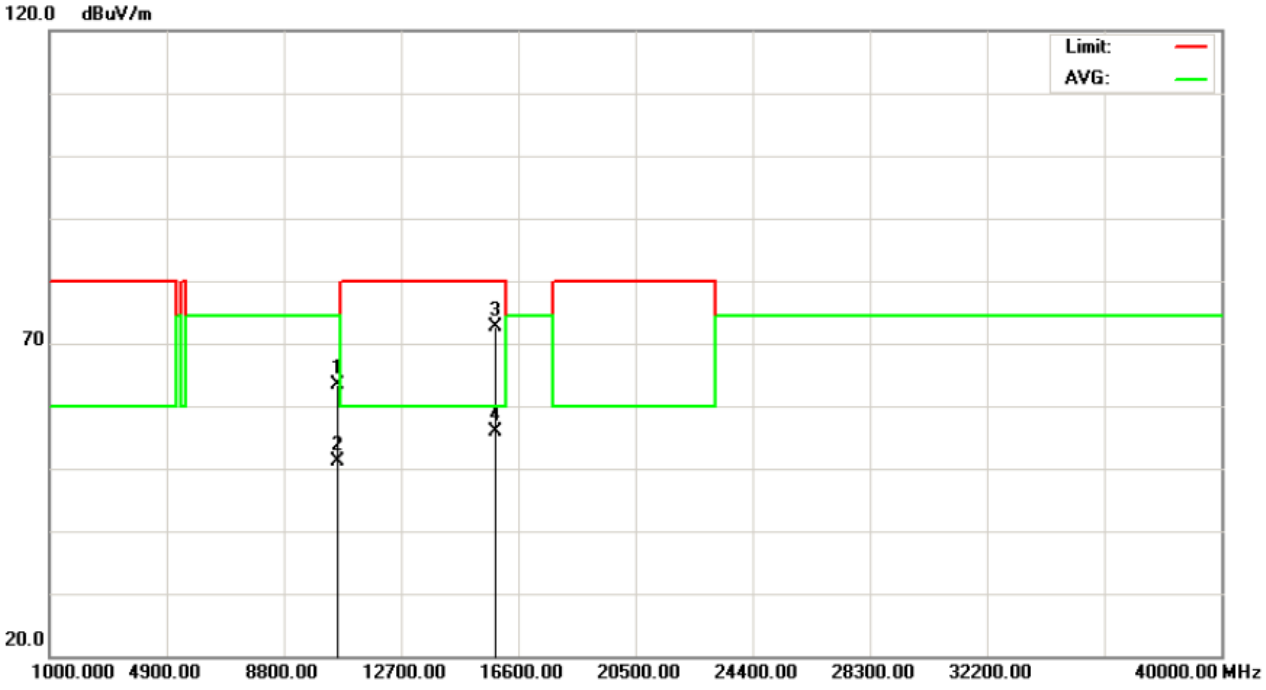
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH52 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH52		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5265.20	H	80.73	69.81	39.39	120.12	109.20			Y/F
10521.00	H	44.13	32.83	14.35	58.48	47.18	74.30	74.30	Y/H
15778.60	H	52.32	38.69	14.51	66.83	53.20	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

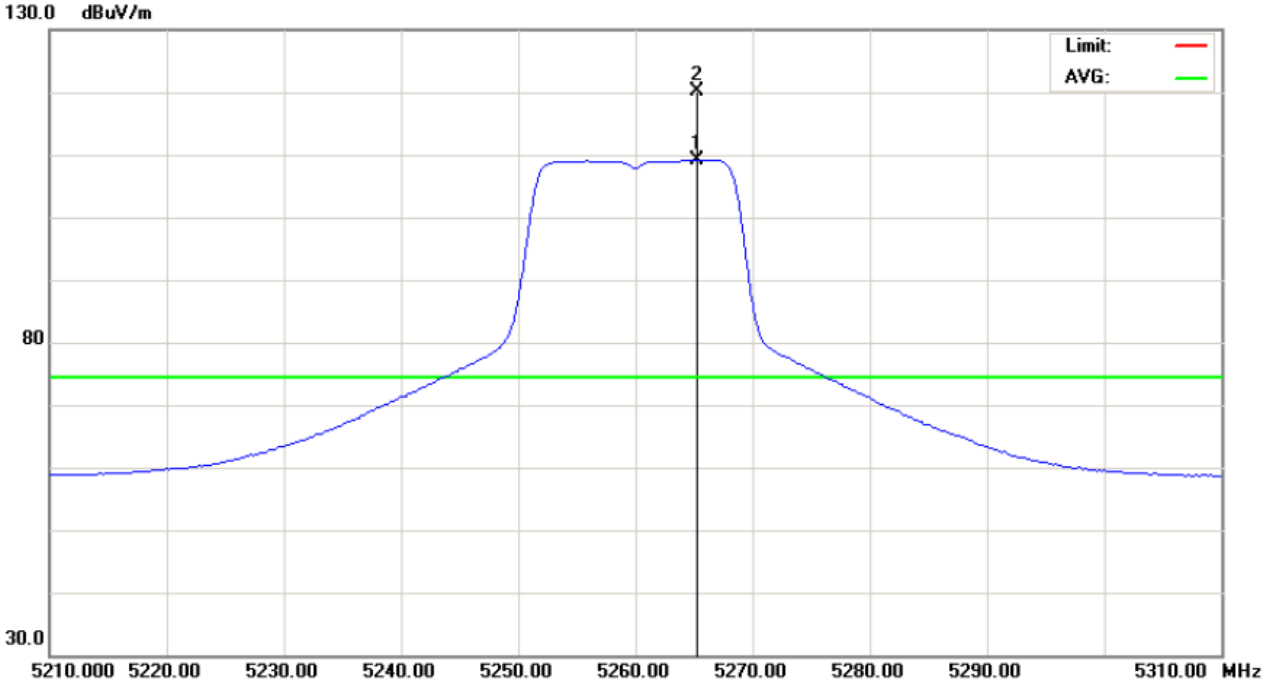
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

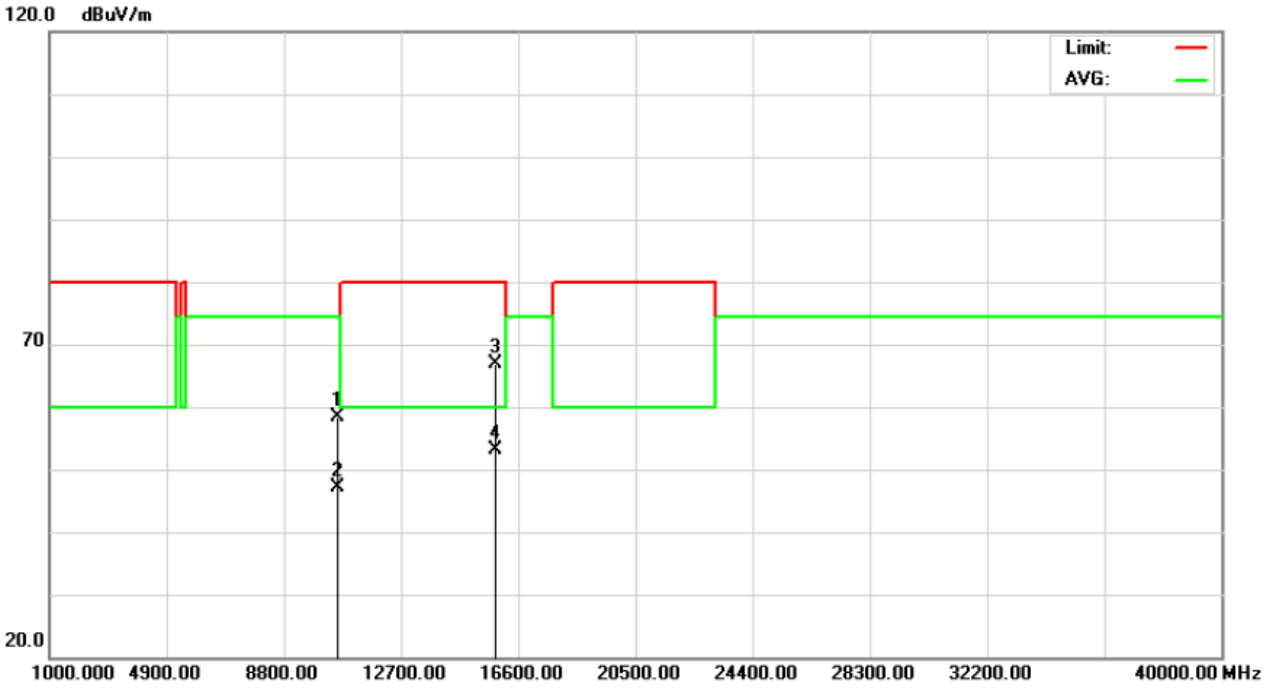
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH52 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH60		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5293.60	V	76.98	67.33	39.42	116.40	106.75			Y/F
10599.40	V	44.86	33.40	14.59	59.45	47.99	74.30	74.30	Y/H
15902.40	V	55.63	41.95	14.10	69.73	56.05	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

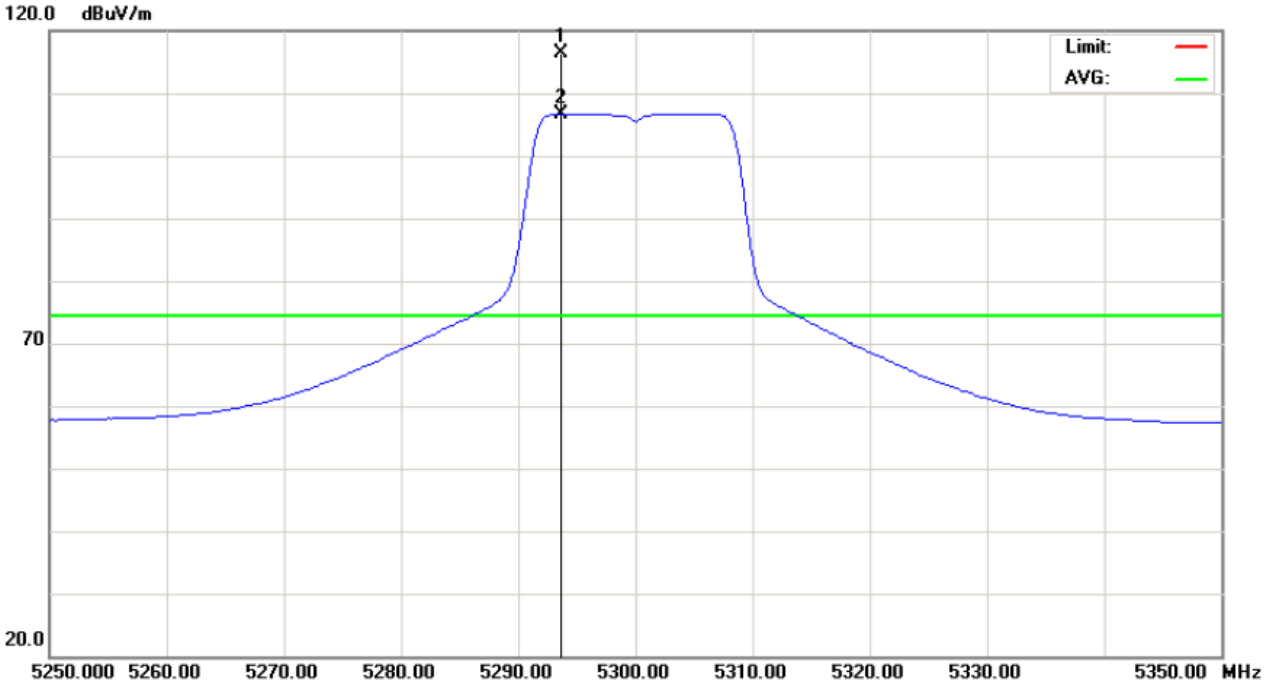
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

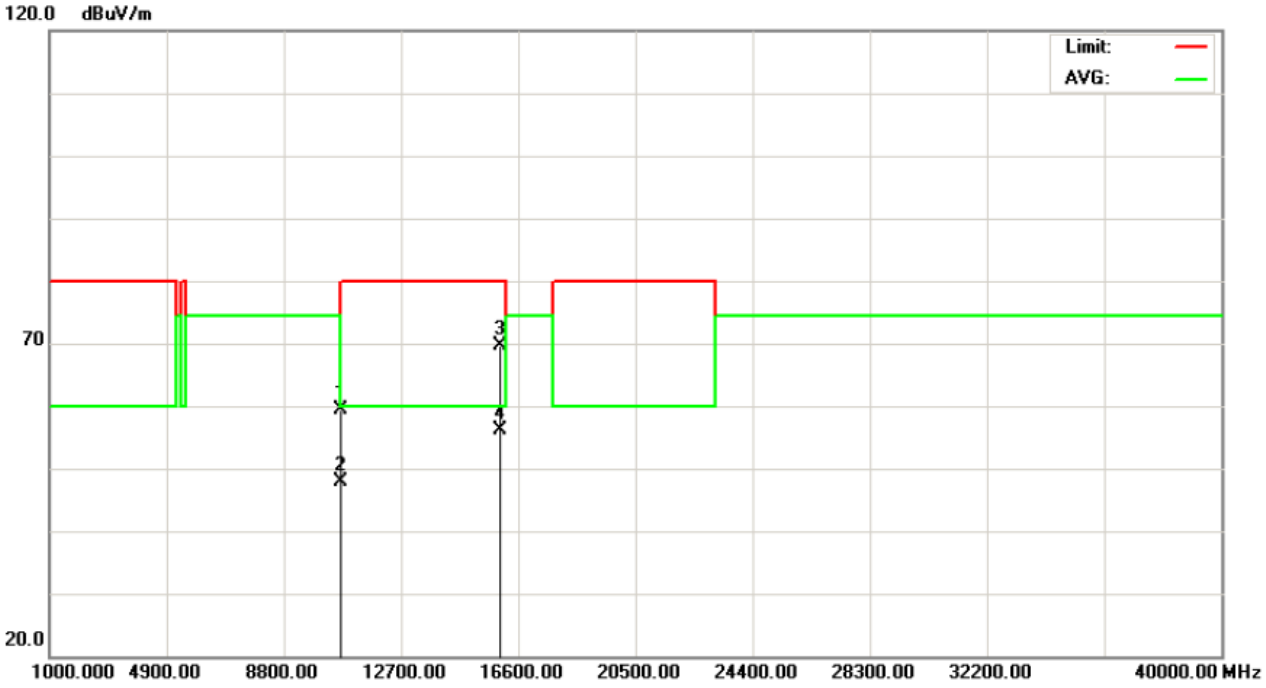
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH60 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH60		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5293.20	H	79.90	70.00	39.42	119.32	109.42			Y/F
10600.40	H	47.10	35.28	14.60	61.70	49.88	80.00	60.00	Y/H
15903.40	H	51.30	39.15	14.09	65.39	53.24	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

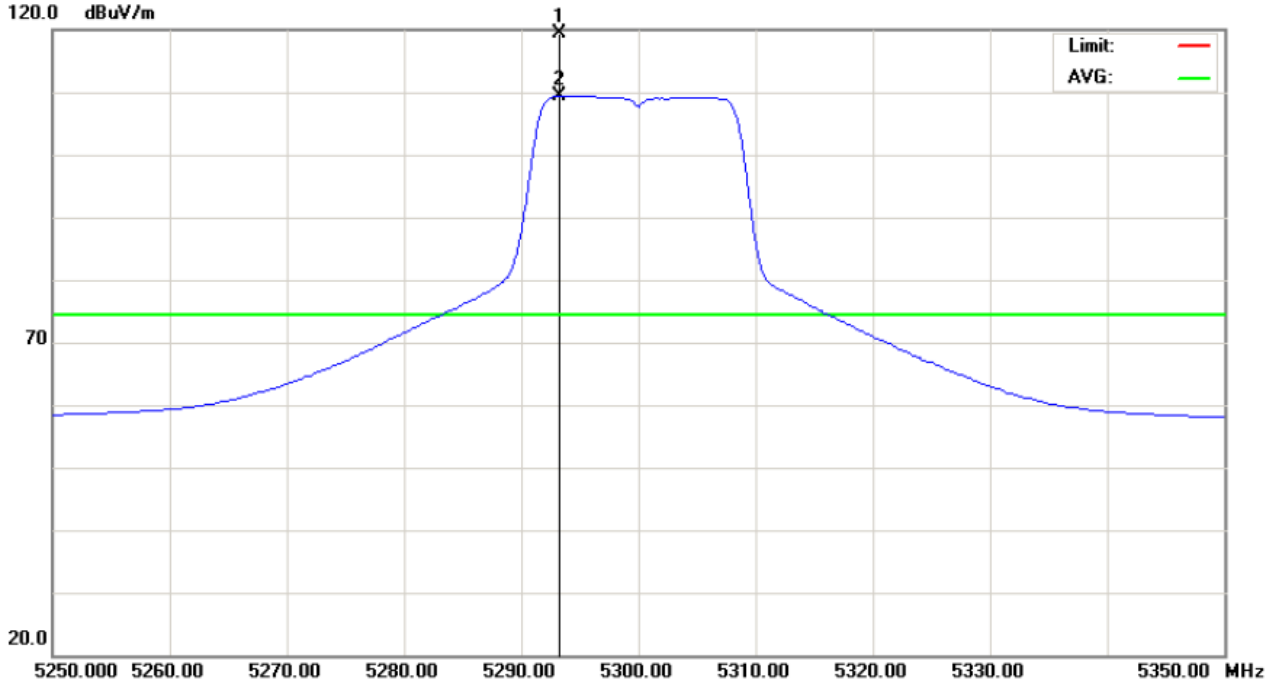
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

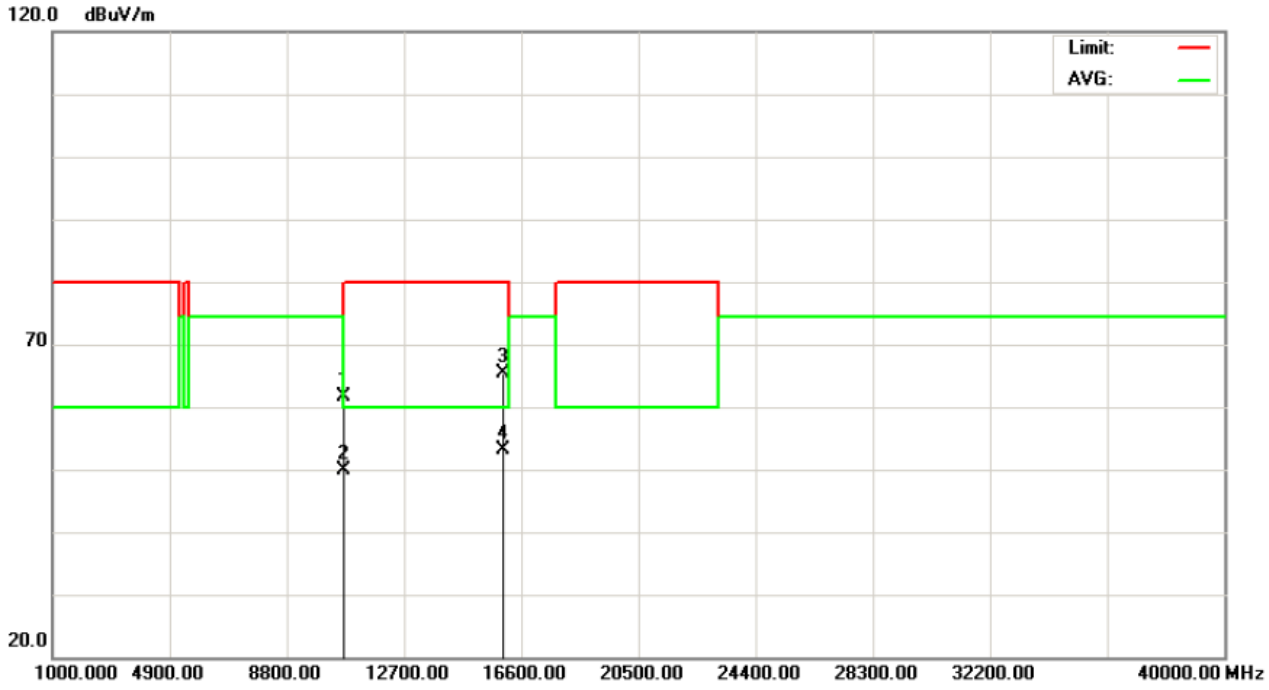
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH60 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH64		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5315.40	V	72.66	61.43	39.44	112.10	100.87			Y/F
5350.00	V	29.69	17.38	39.48	69.17	56.86	74.30	60.00	Y/H
10639.00	V	42.11	31.16	14.71	56.82	45.87	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

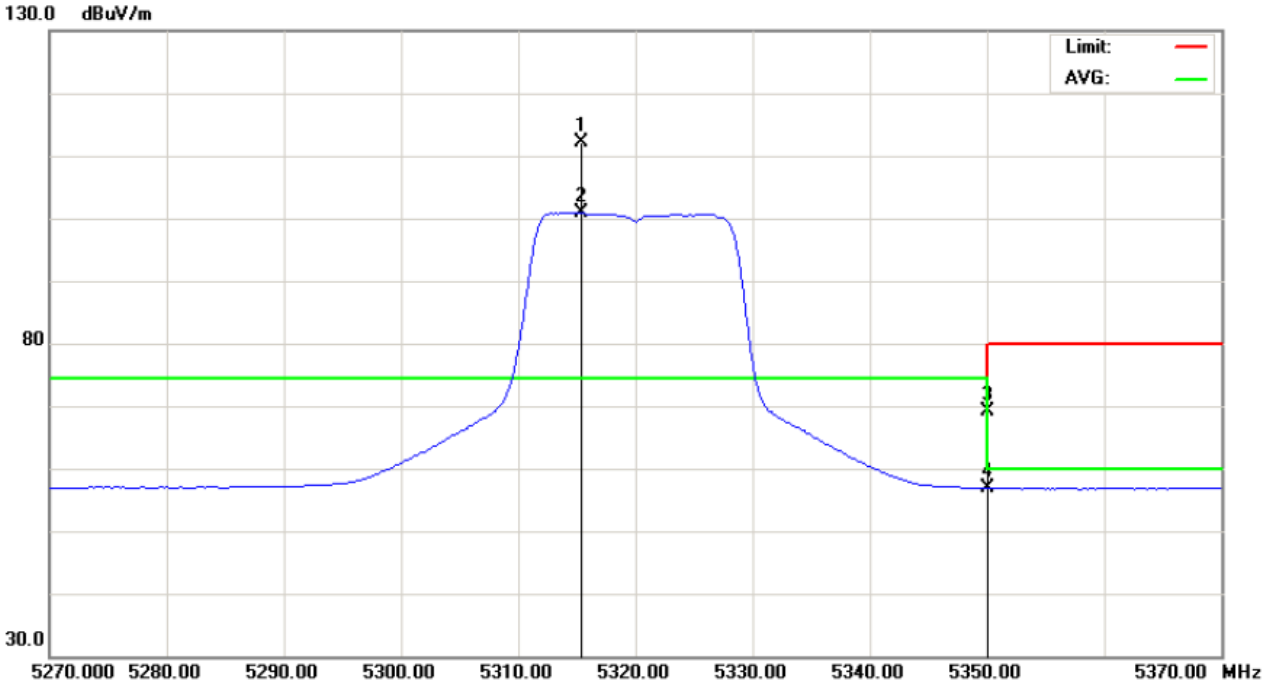
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

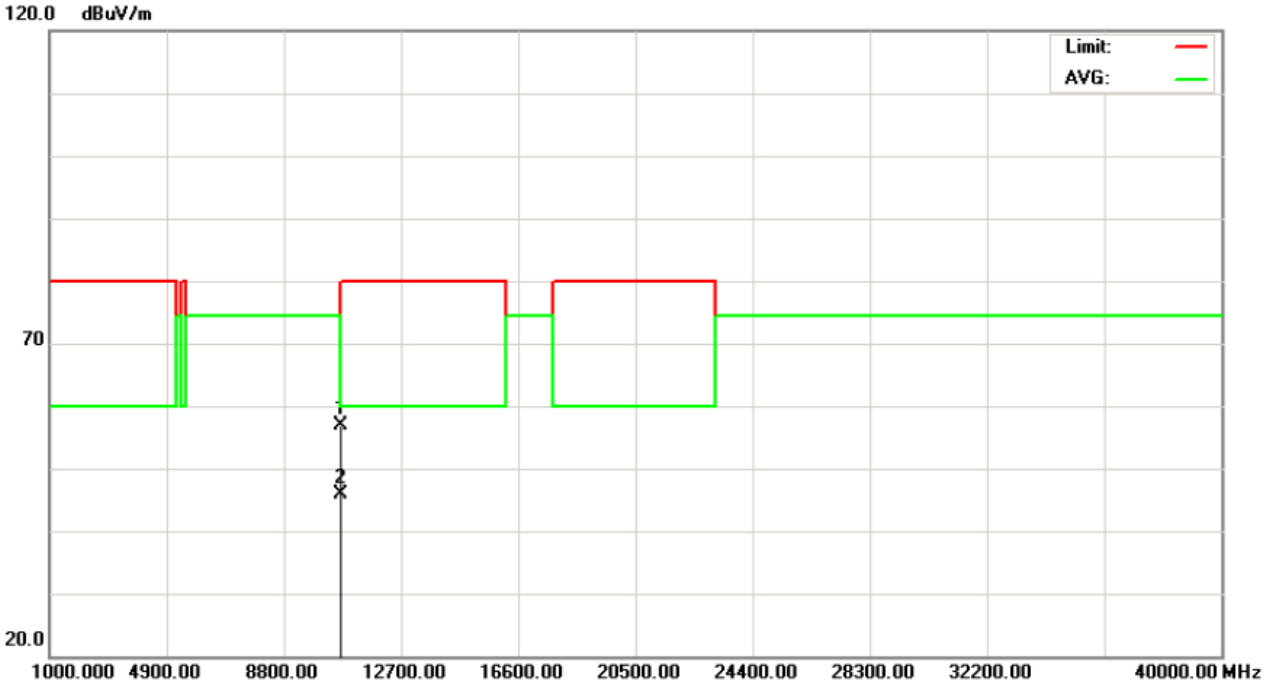
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH64 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH64		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5326.20	H	75.46	63.87	39.45	114.91	103.32			Y/F
5350.00	H	31.60	17.88	39.48	71.08	57.36	74.30	60.00	Y/H
10639.00	H	42.63	31.07	14.71	57.34	45.78	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

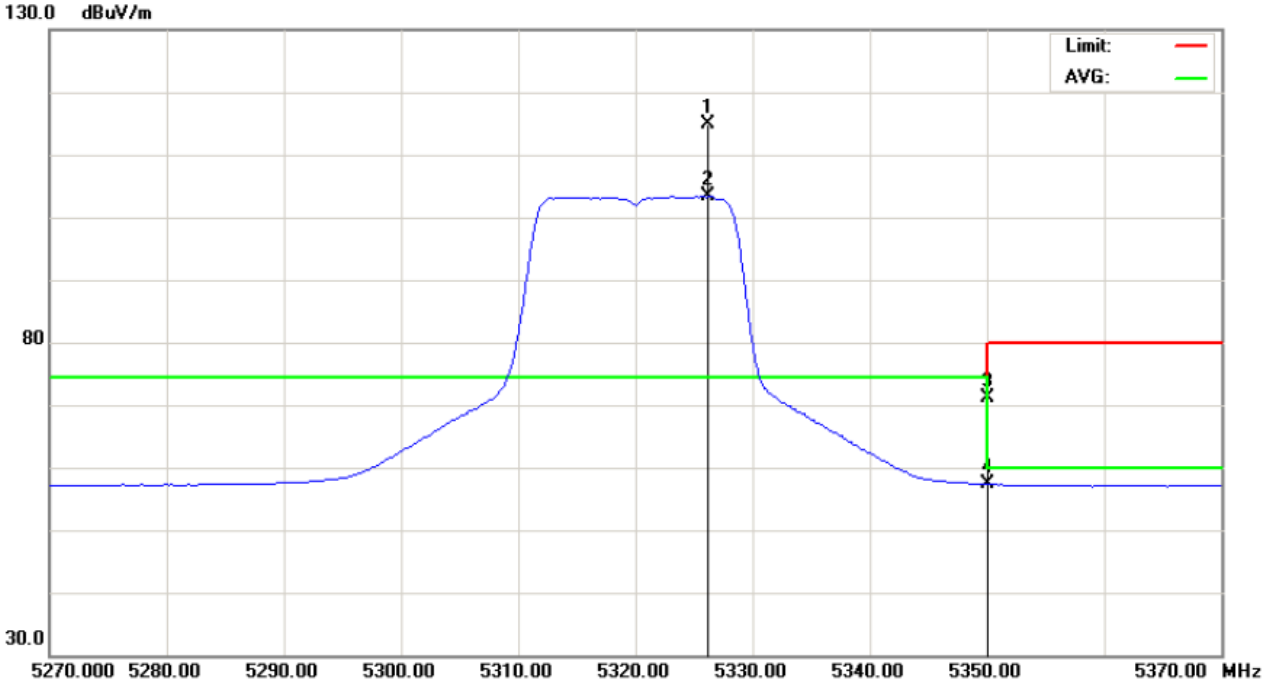
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

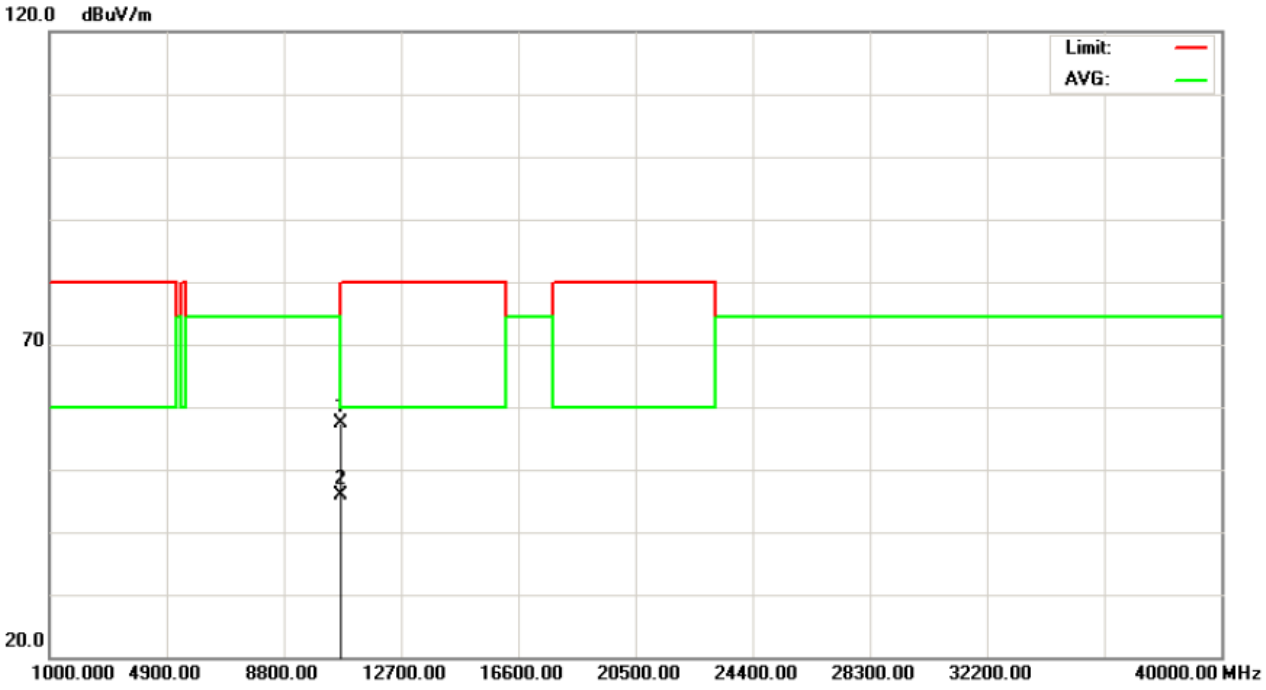
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH64 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH52		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5265.80	V	79.11	67.03	39.39	118.50	106.42			Y/F
10519.60	V	49.29	33.95	14.35	63.64	48.30	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

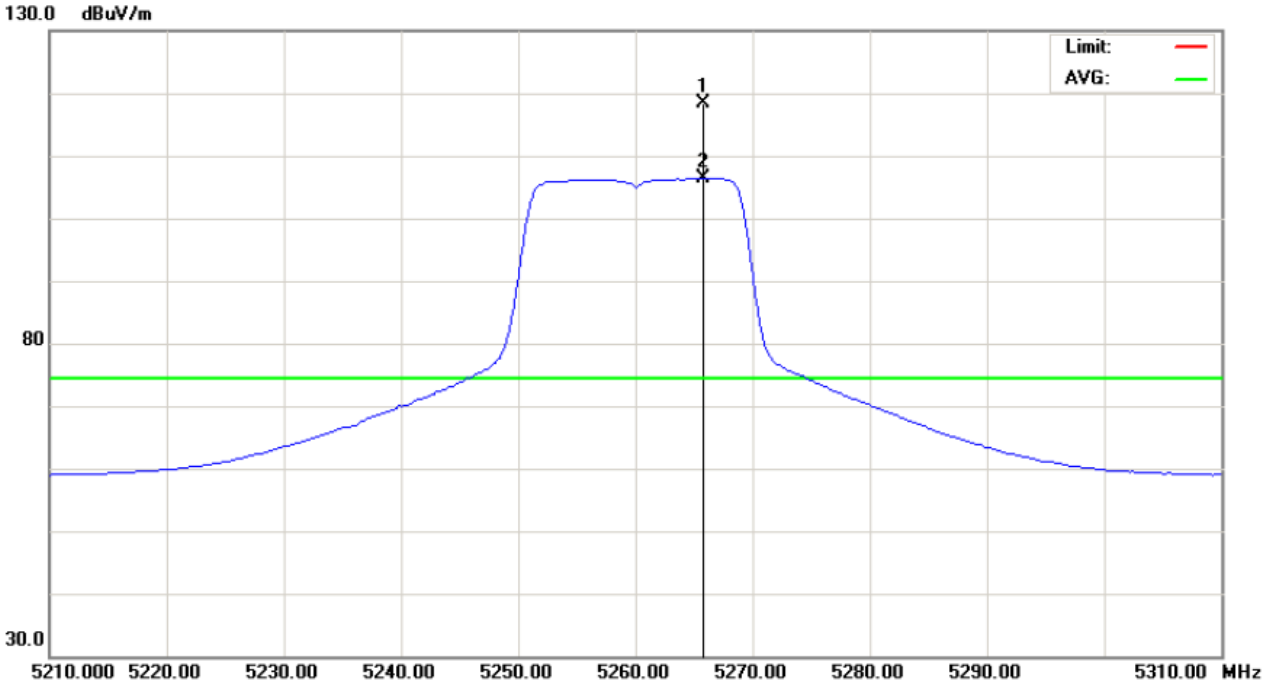
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

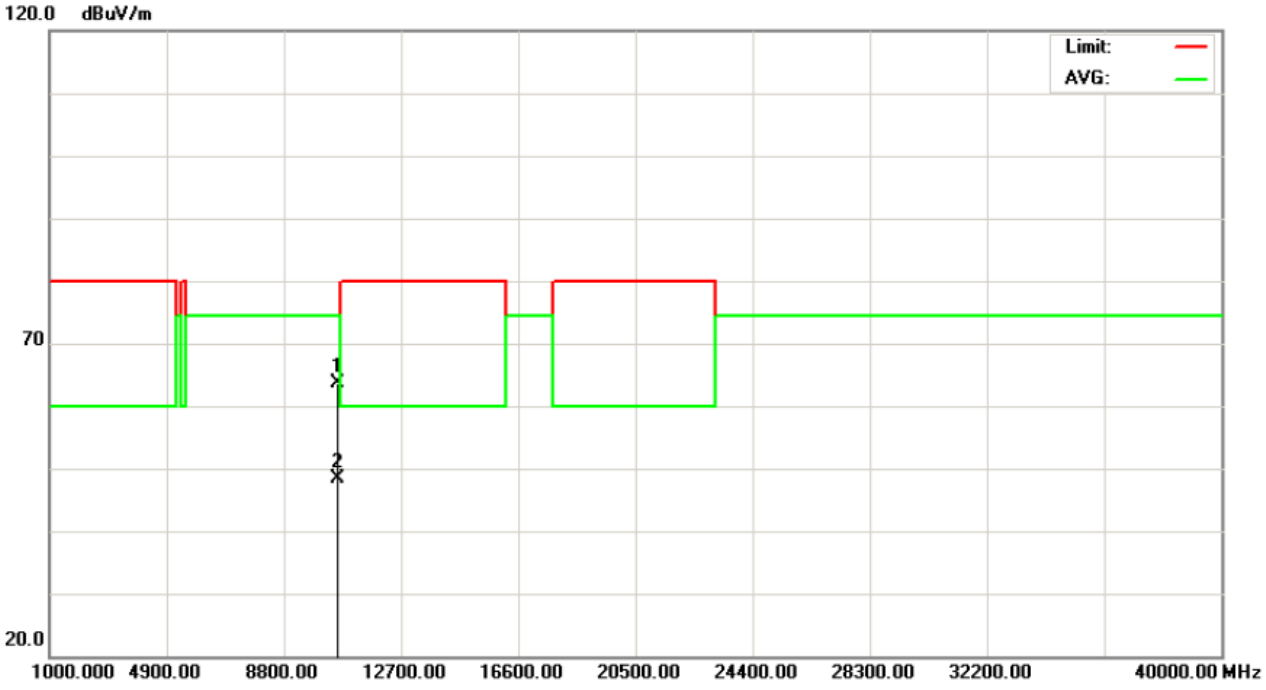
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH52 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH52		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5266.00	H	81.10	70.25	39.39	120.49	109.64			Y/F
10519.80	H	49.43	33.84	14.35	63.78	48.19	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

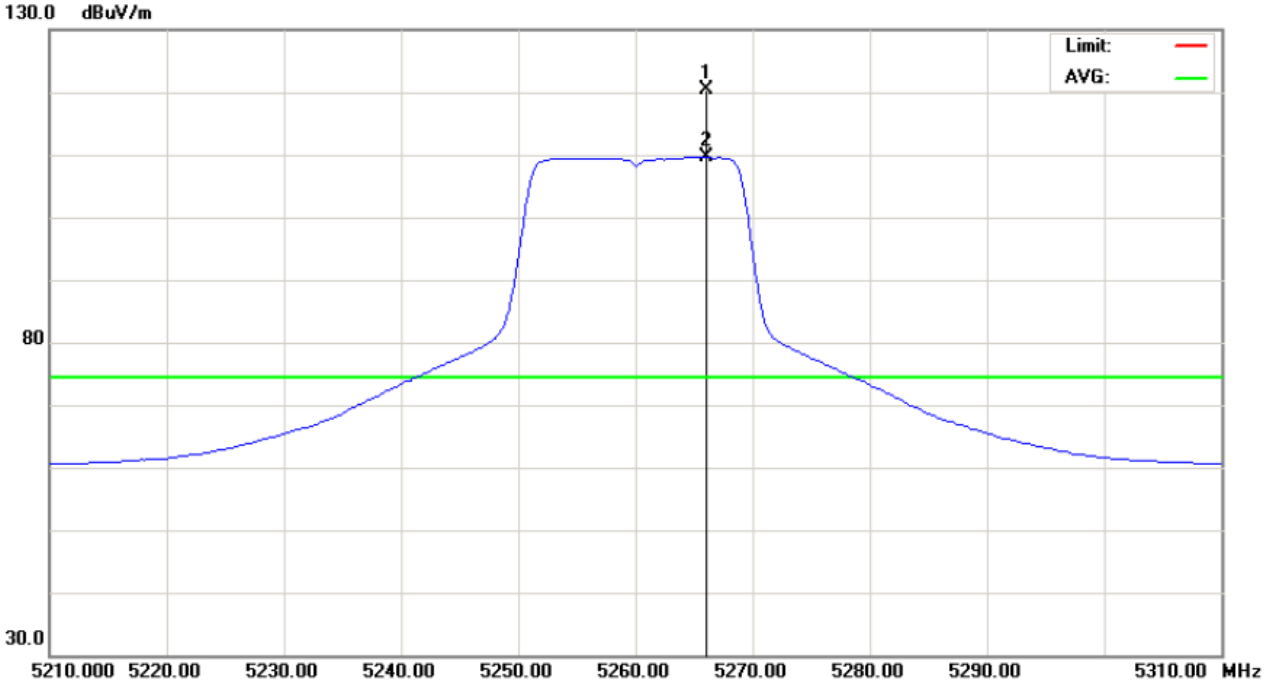
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

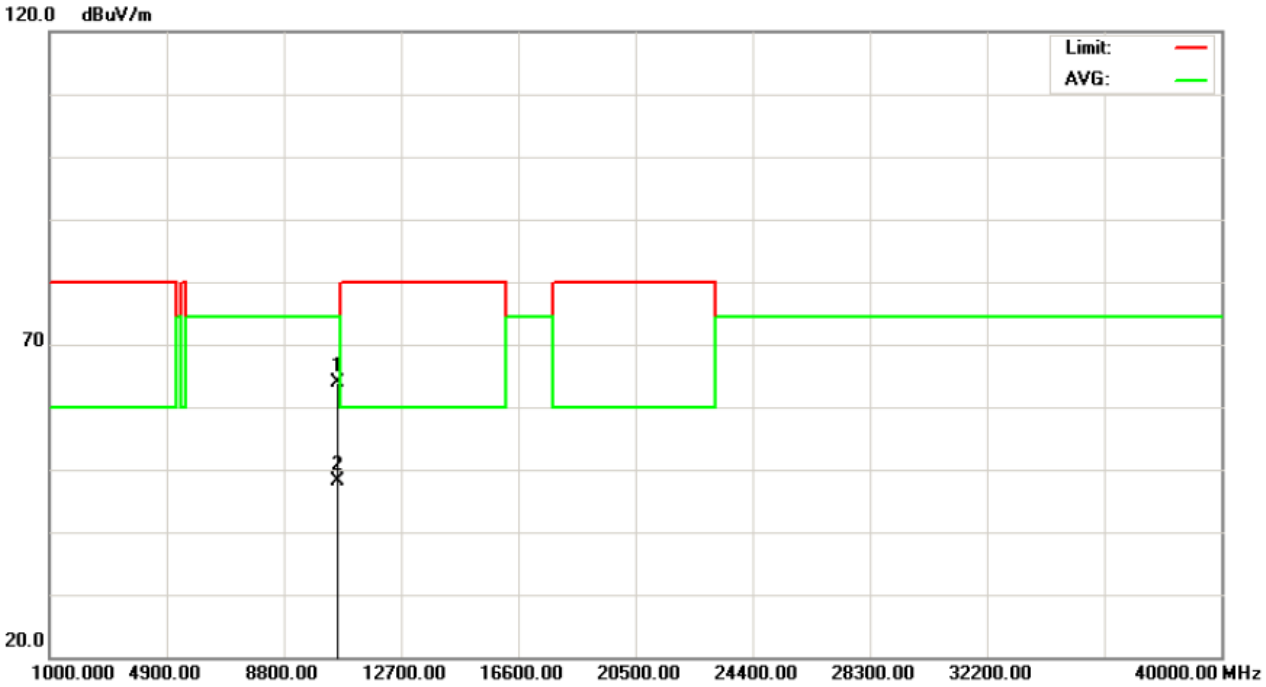
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH52 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH60		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5307.00	V	79.68	67.05	39.43	119.11	106.48			Y/F
10606.20	V	50.68	37.60	14.61	65.29	52.21	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

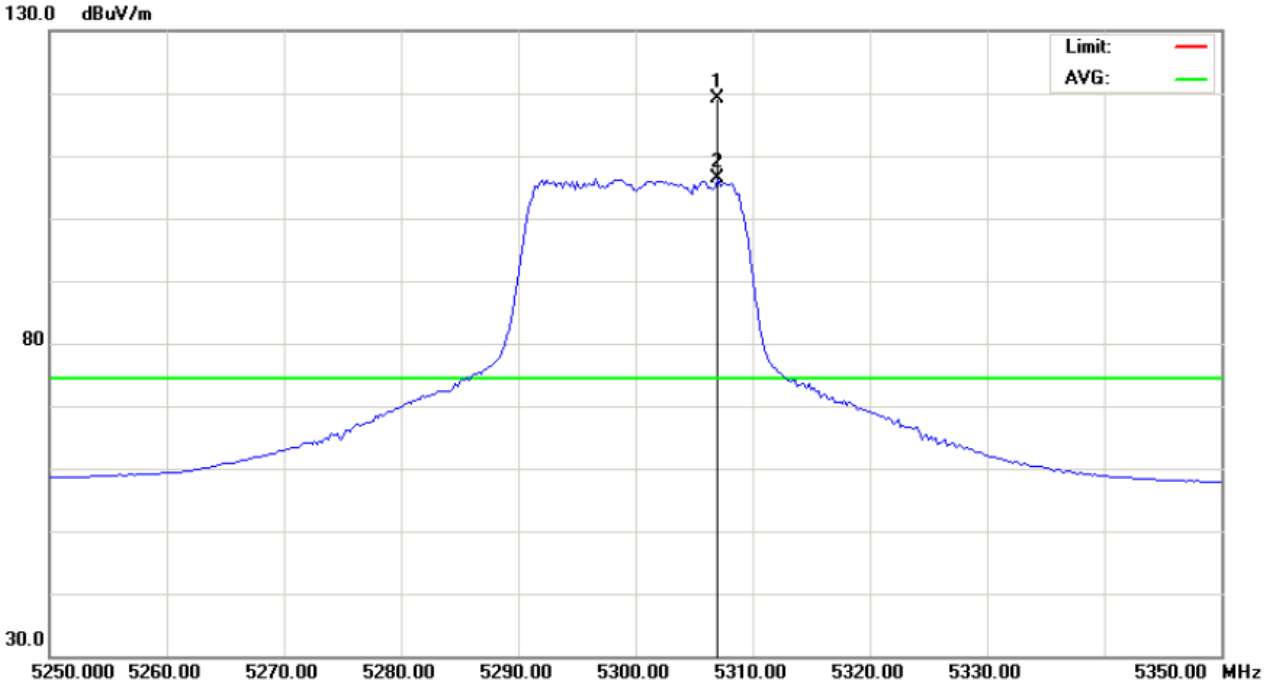
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

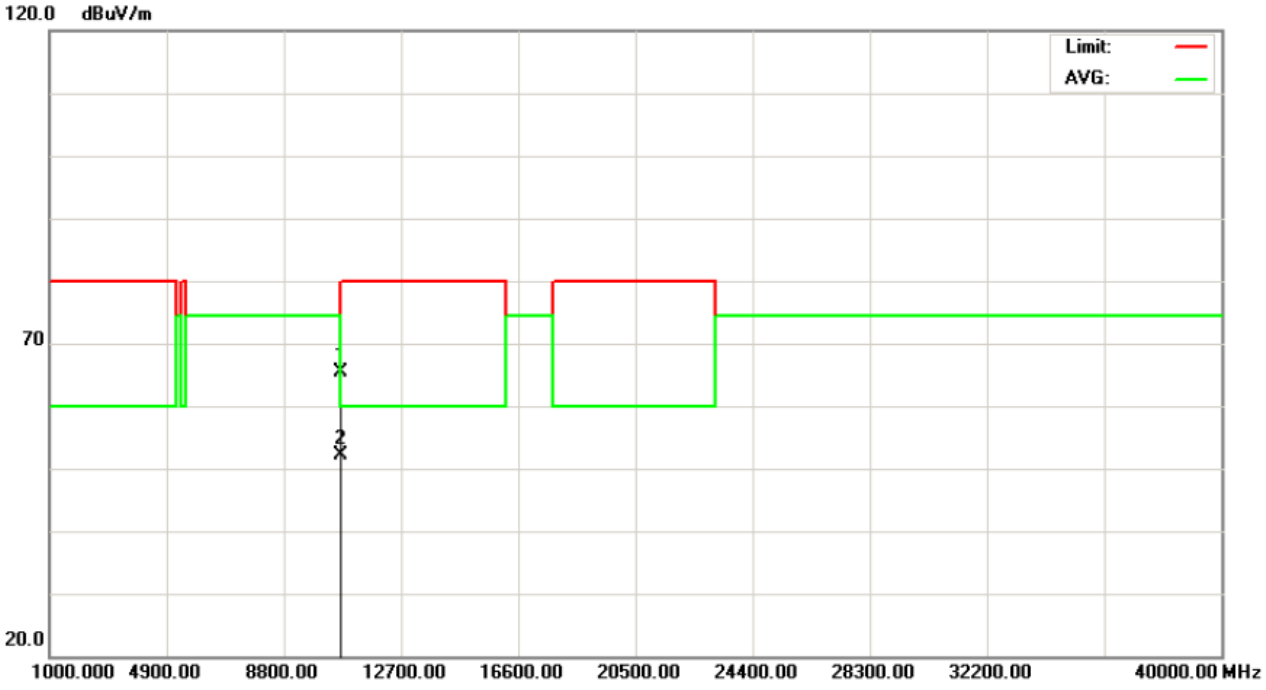
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH60 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH60		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5294.80	H	82.12	70.52	39.42	121.54	109.94			Y/F
10607.20	H	47.32	35.67	14.62	61.94	50.29	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

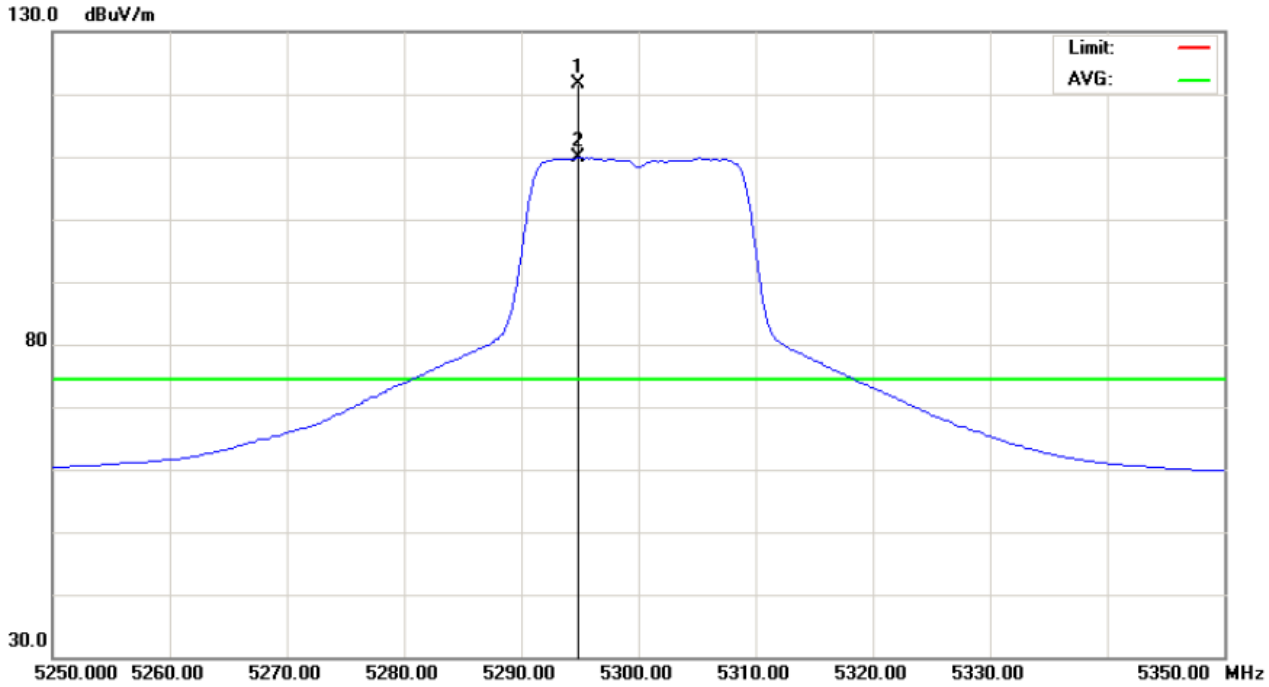
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

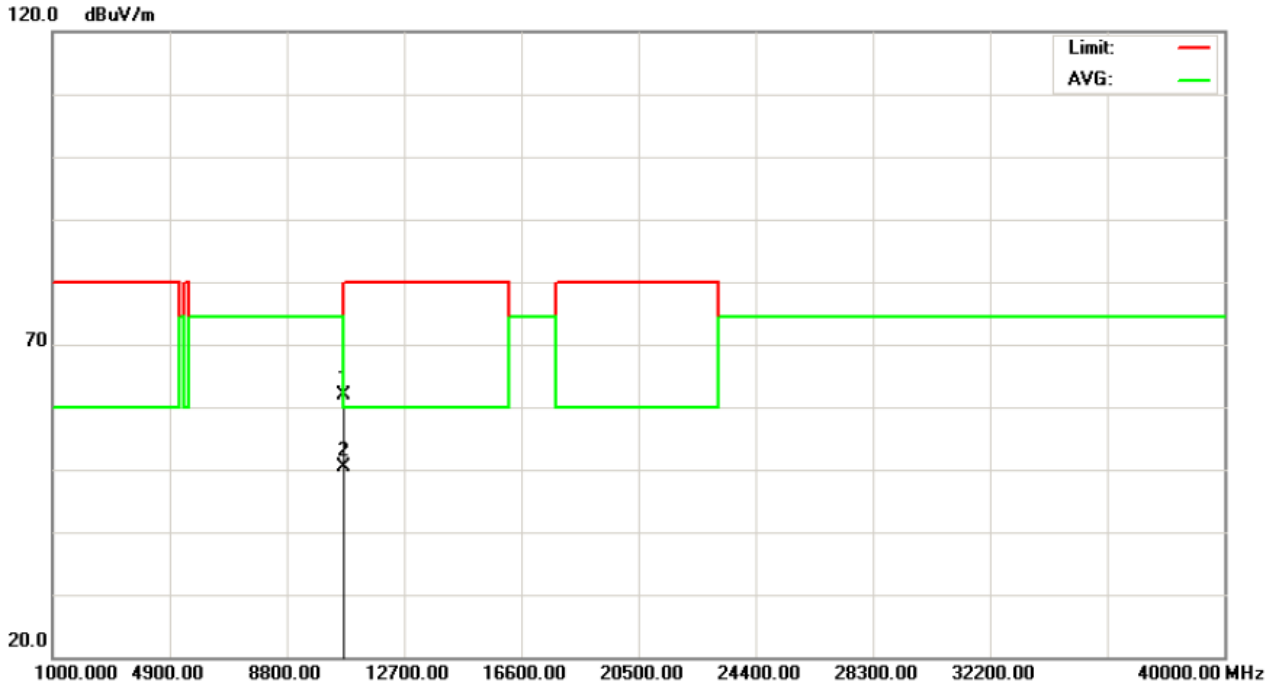
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH60 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH64		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5325.80	V	76.91	63.65	39.45	116.36	103.10			Y/F
5350.00	V	32.90	18.61	39.48	72.38	58.09	74.30	60.00	Y/H
10640.00	V	47.81	33.82	14.72	62.53	48.54	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

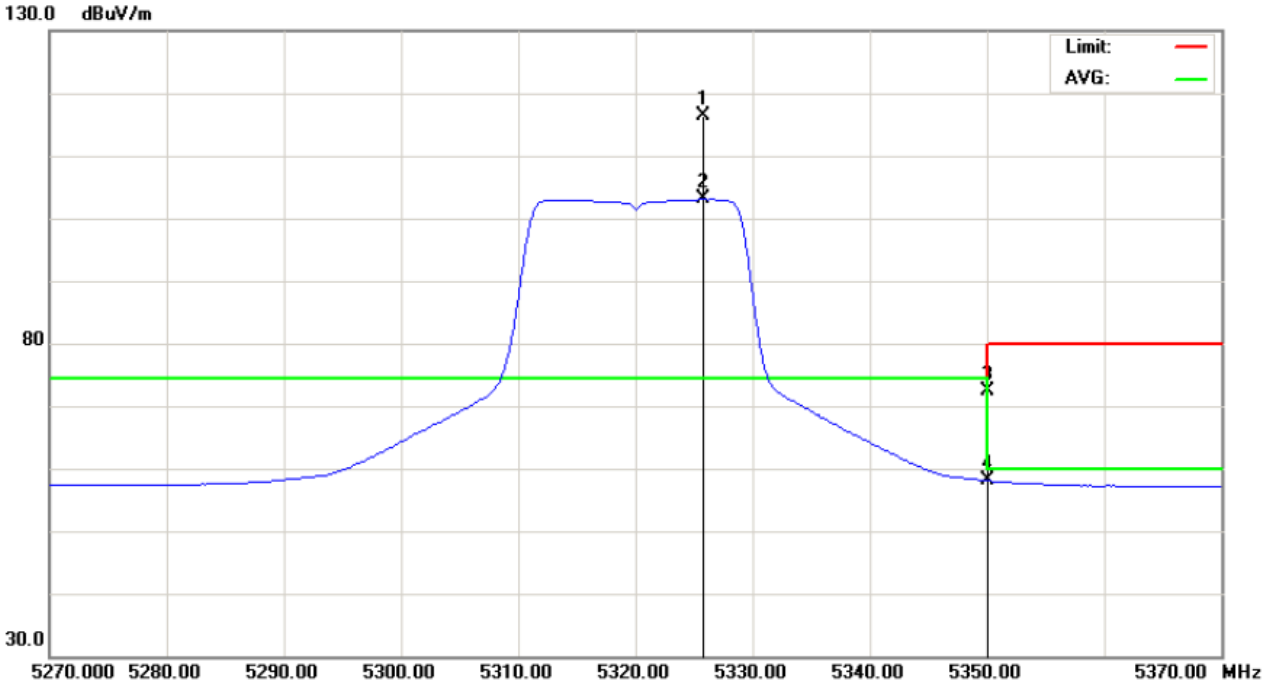
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

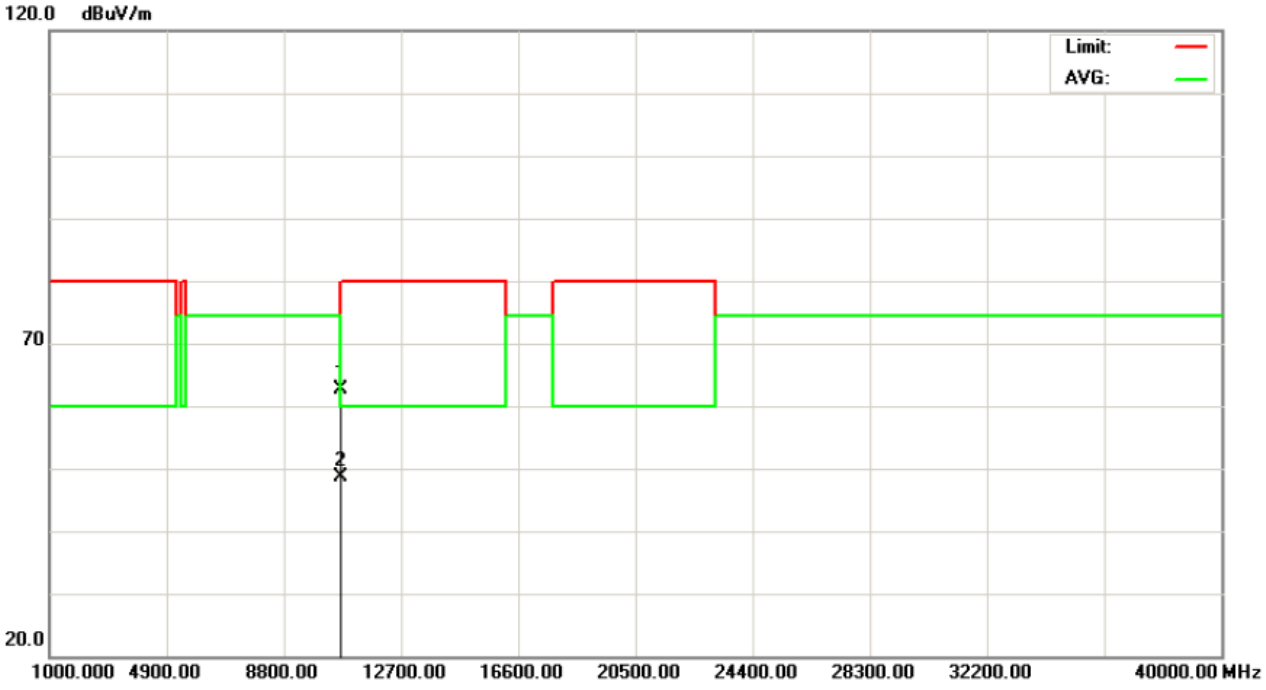
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH64 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH64		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5314.00	H	66.32	66.32	39.44	105.76	105.76			Y/F
5350.00	H	33.23	19.50	39.48	72.71	58.98	74.30	60.00	Y/H
10639.80	H	47.70	33.02	14.71	62.41	47.73	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

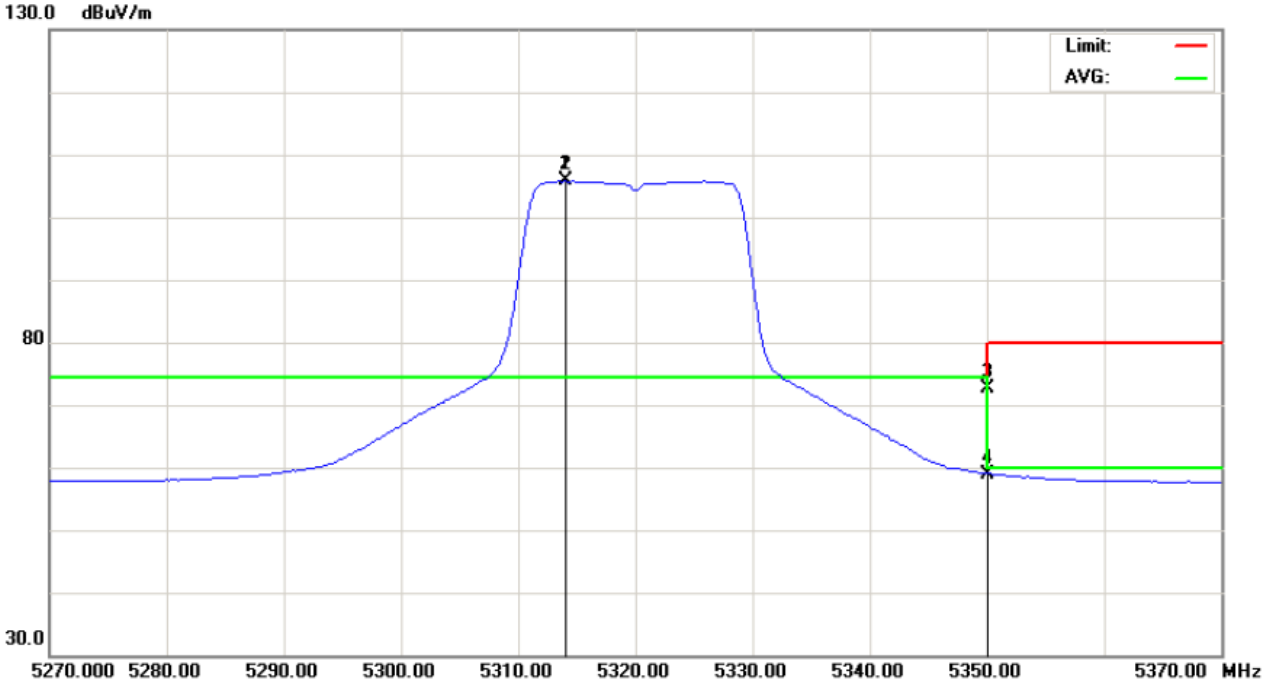
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

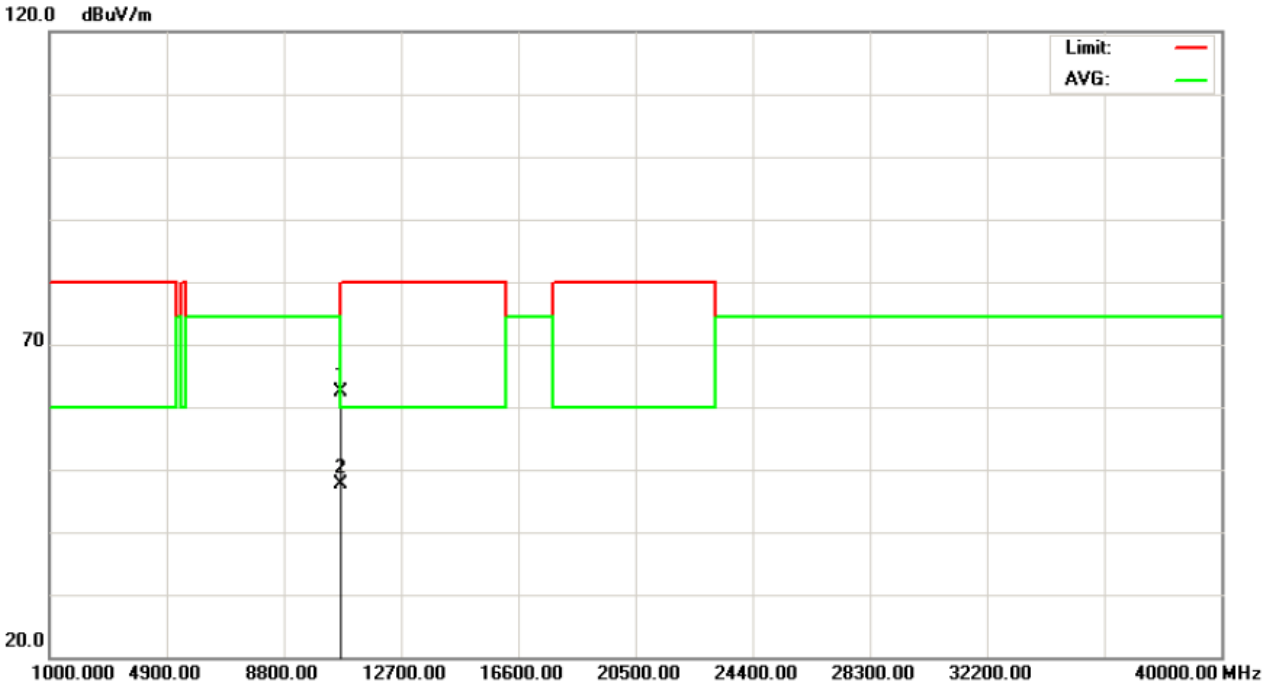
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH64 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH54		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5276.80	V	75.47	64.53	39.40	114.87	103.93			Y/F
10540.80	V	47.55	35.14	14.41	61.96	49.55	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

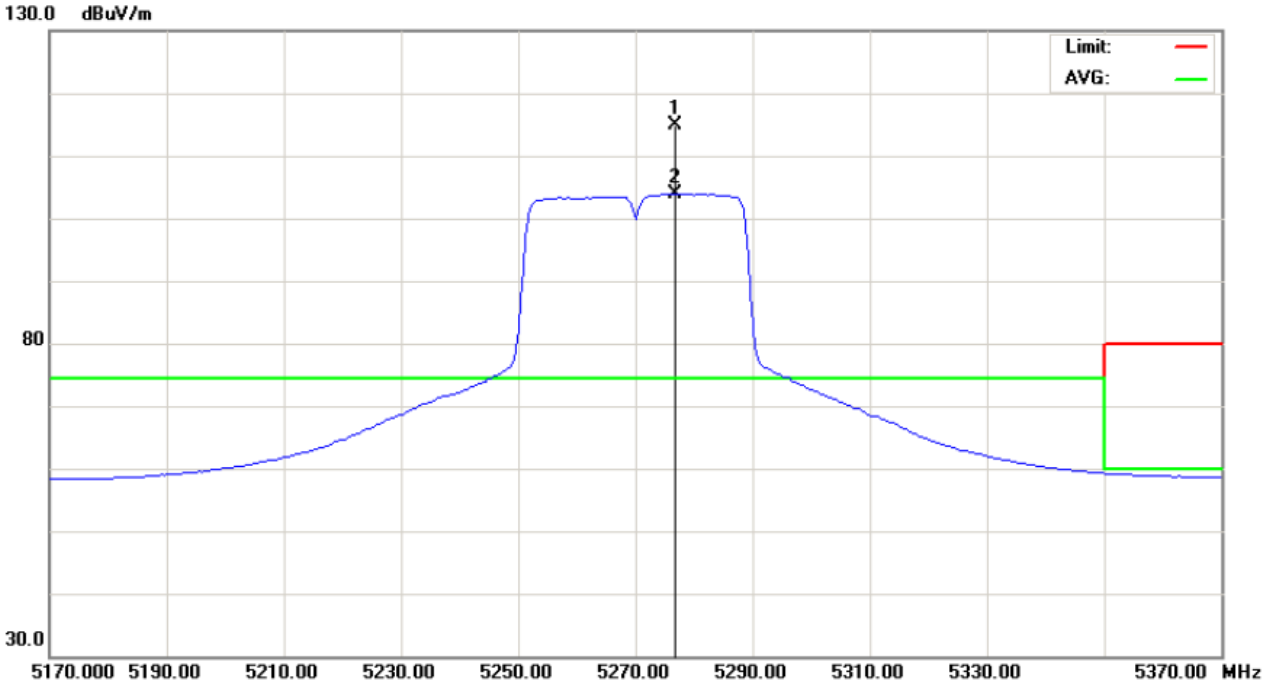
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

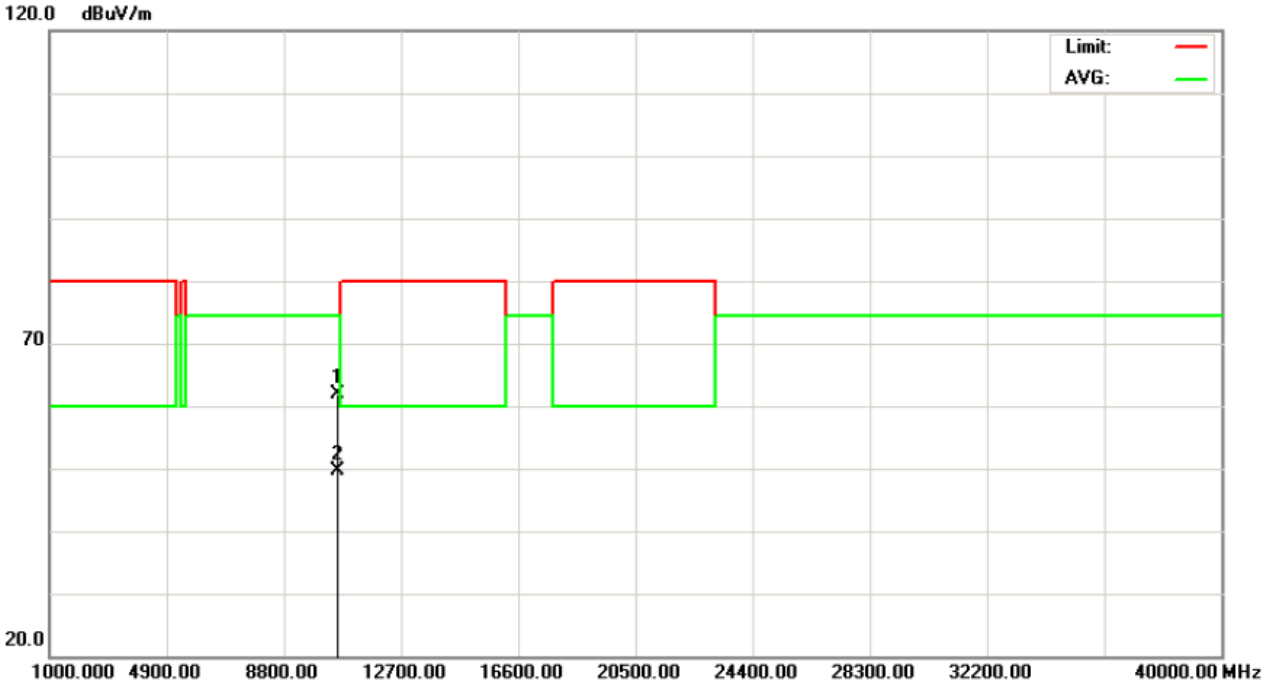
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH54 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH54		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5276.80	H	79.26	67.20	39.40	118.66	106.60			Y/F
10540.00	H	48.44	33.94	14.41	62.85	48.35	74.30	74.30	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

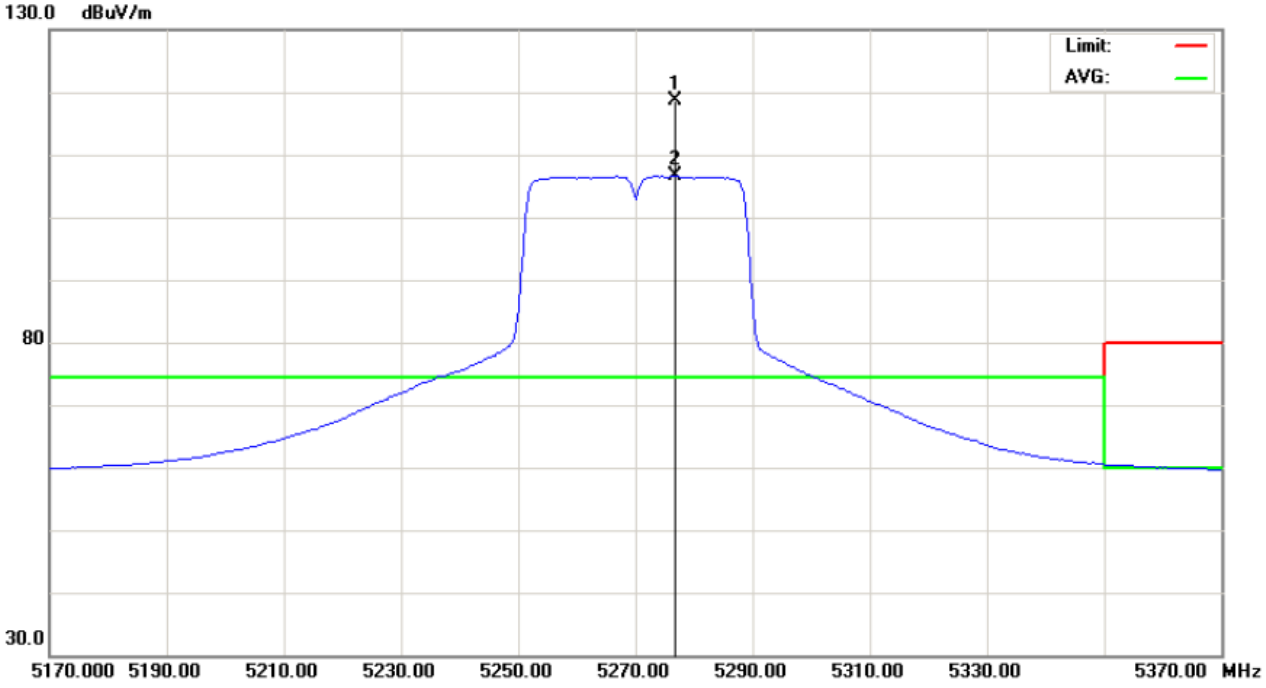
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

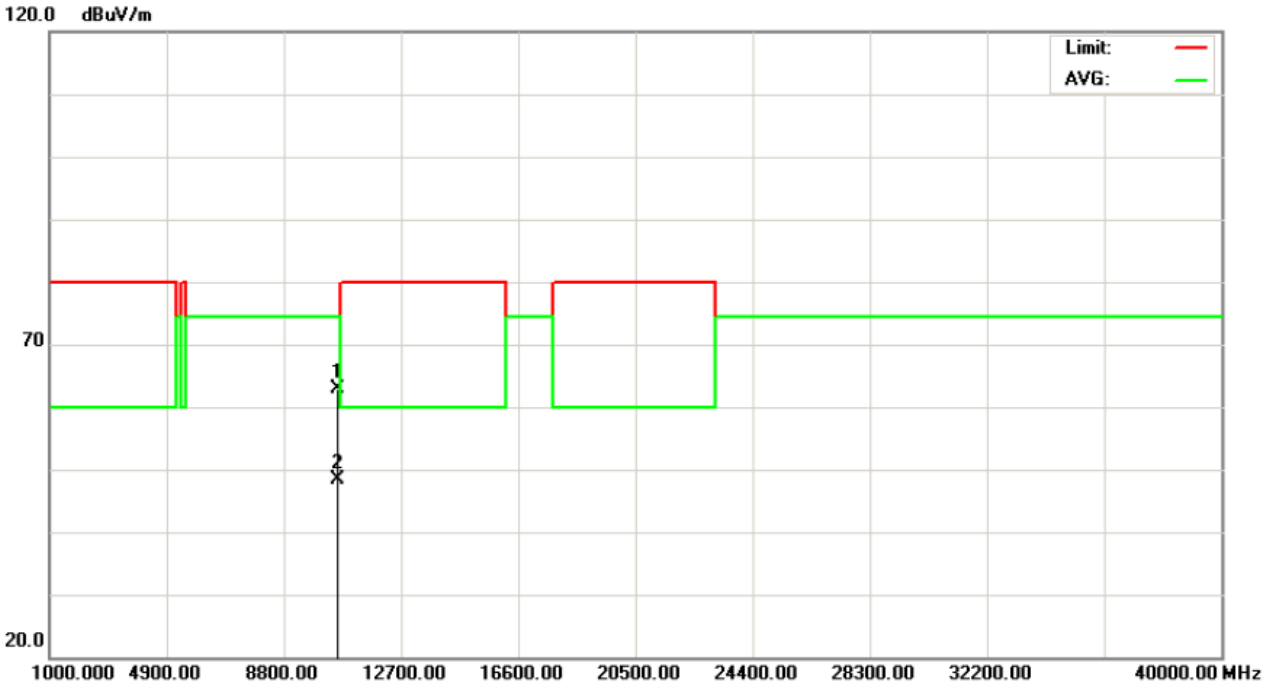
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH54 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH62		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5313.60	V	68.93	56.50	39.44	108.37	95.94			Y/F
5350.00	V	30.12	18.62	39.48	69.60	58.10	74.30	60.00	Y/H
10618.00	V	45.30	31.50	14.65	59.95	46.15	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

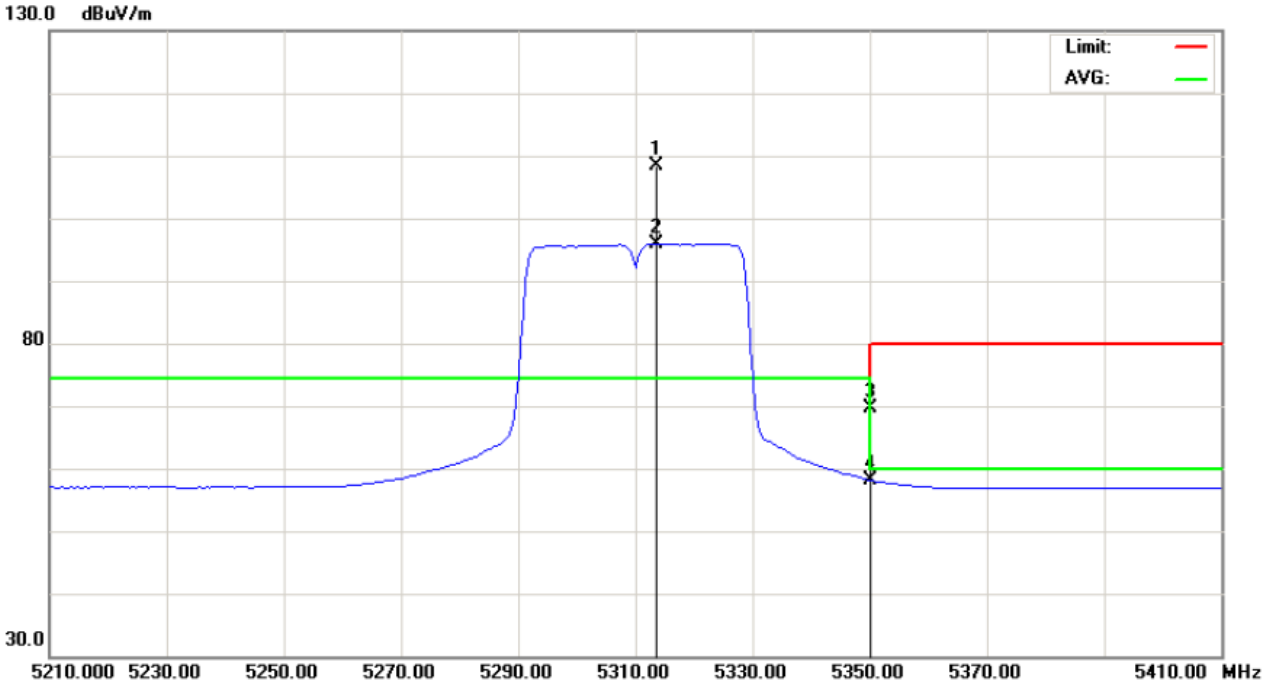
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

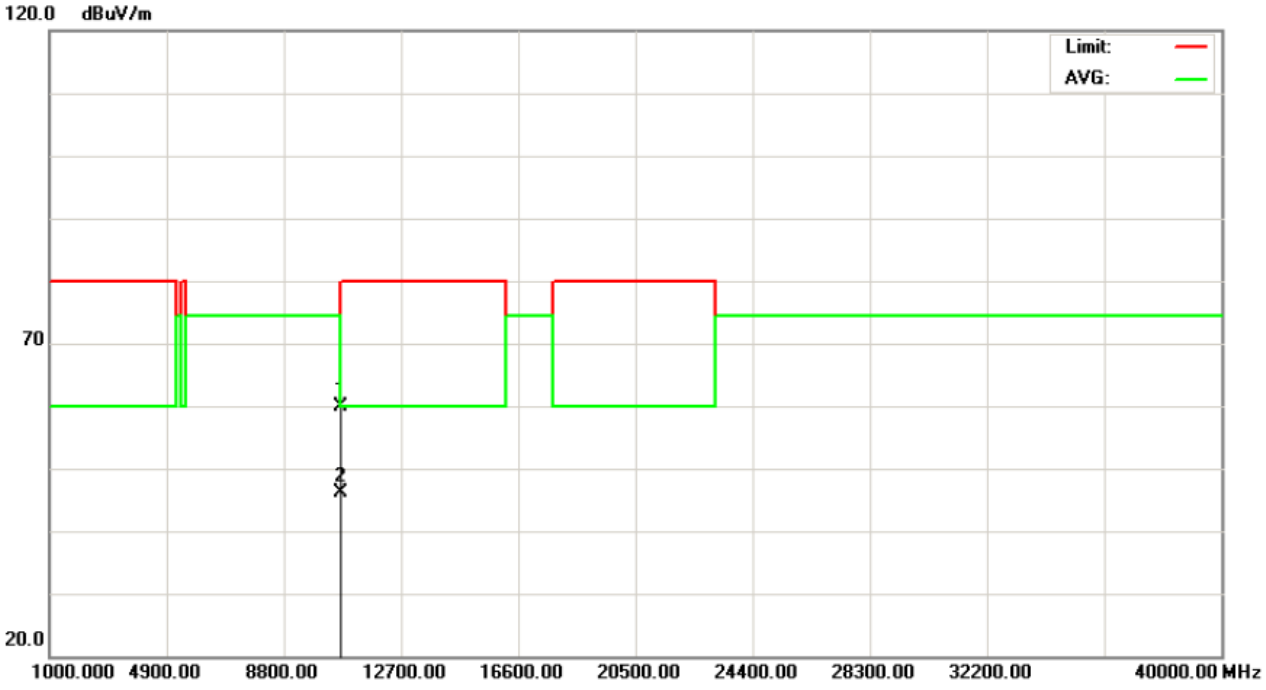
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH62 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH62		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5321.60	H	71.22	58.91	39.45	110.67	98.36			Y/F
5350.00	H	31.58	19.49	39.48	71.06	58.97	74.30	60.00	Y/H
10618.00	H	43.38	31.48	14.65	58.03	46.13	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

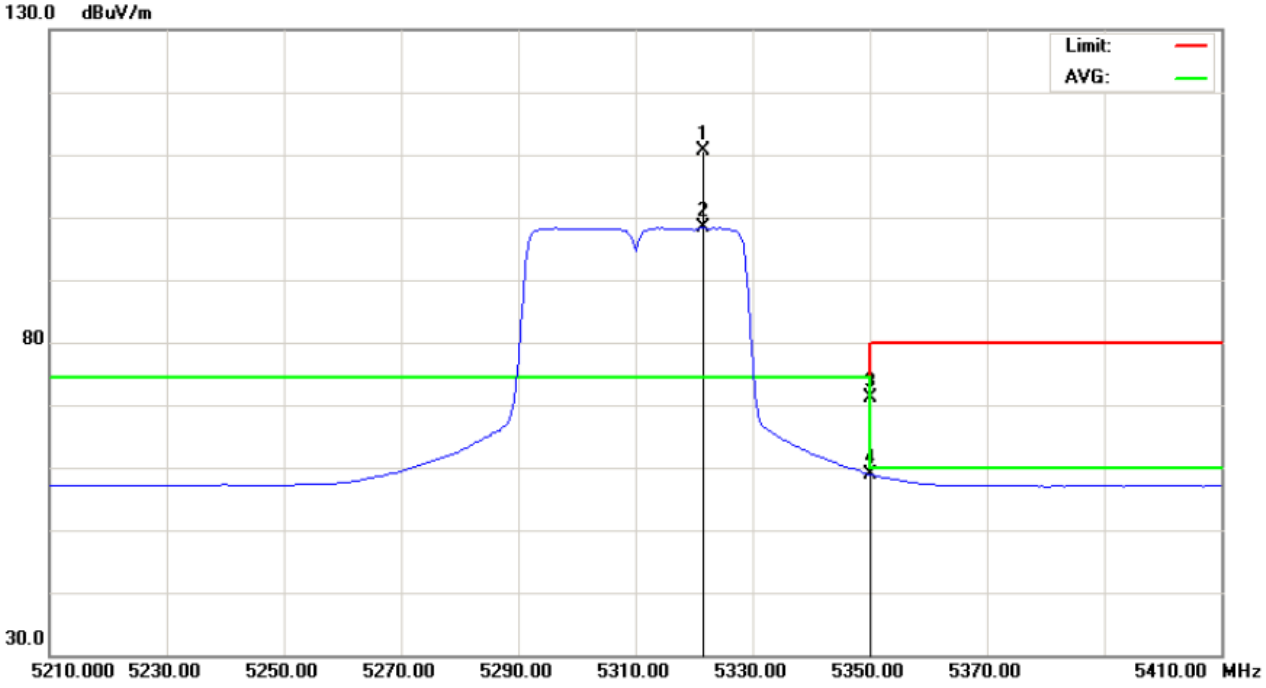
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

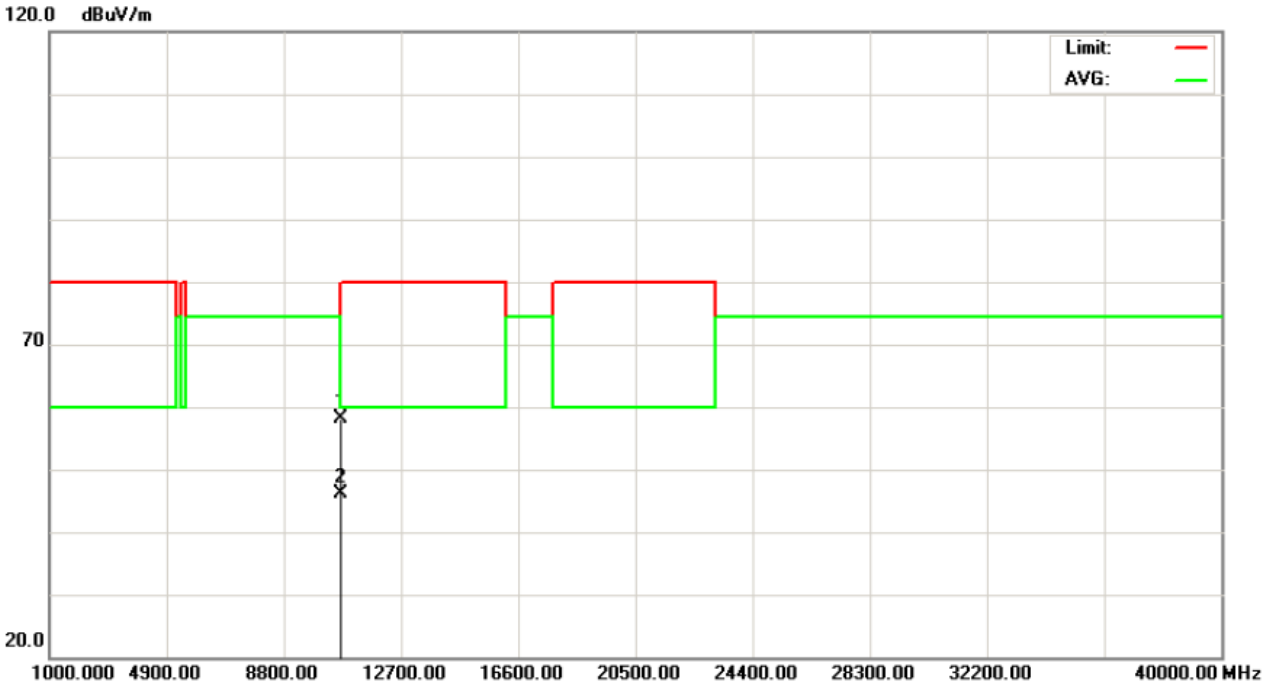
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH62 (Above 1000 MHz, Horizontal)





4.2.10 TEST RESULTS - ABOVE 1000MHZ - BAND 3

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH100		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	33.67	17.88	39.60	73.27	57.48	74.30	60.00	Y/E
5493.20	V	75.86	64.87	39.63	115.49	104.50			Y/F
11000.20	V	48.73	35.87	15.81	64.54	51.68	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

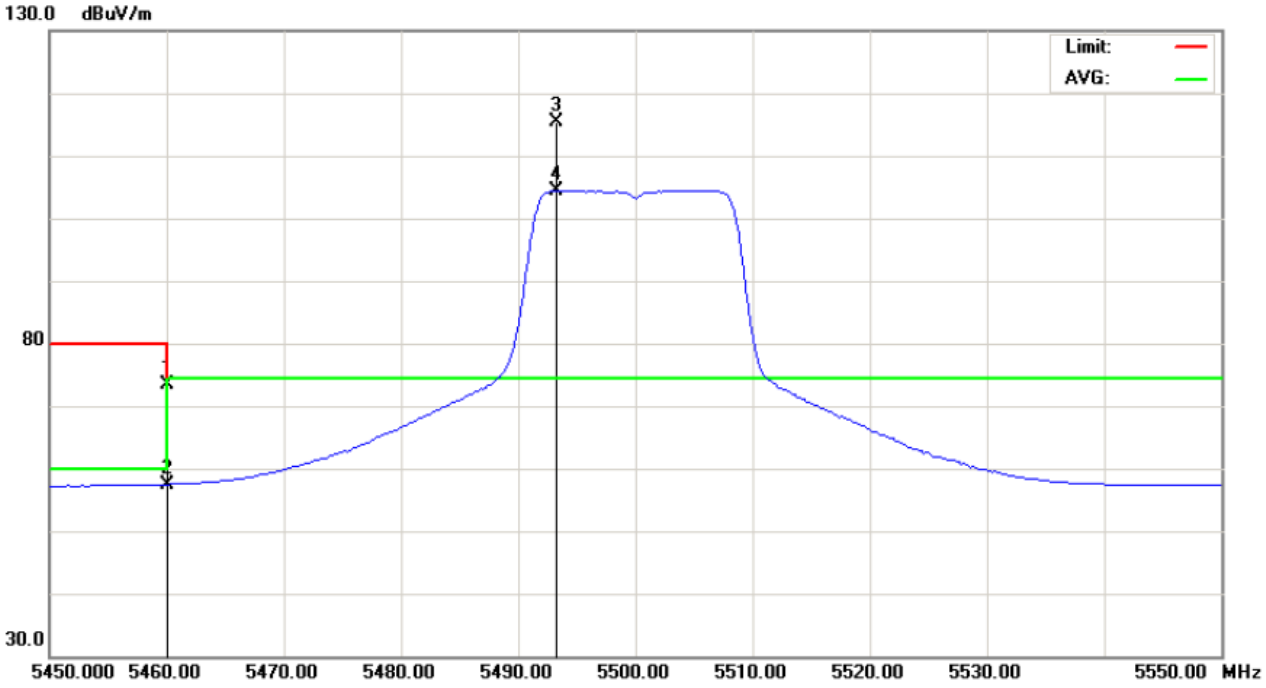
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

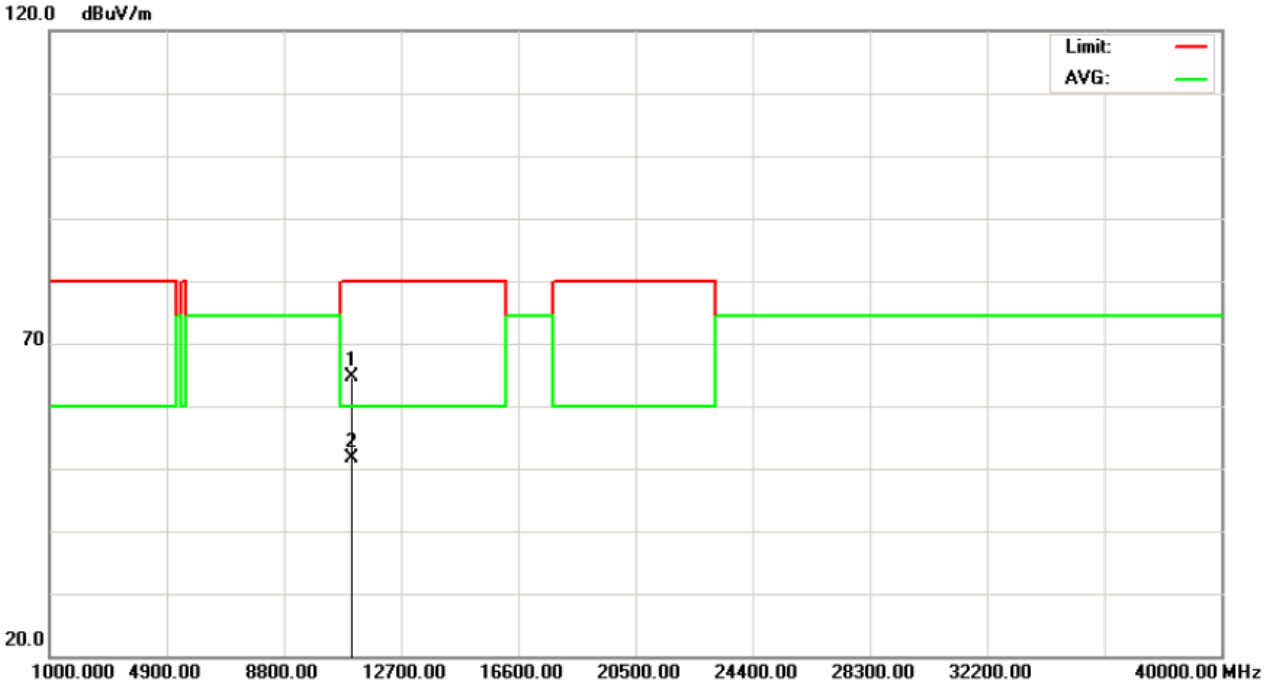
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH100 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH100		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	32.88	18.60	39.60	72.48	58.20	74.30	60.00	Y/E
5493.40	H	77.43	67.33	39.63	117.06	106.96			Y/F
11000.60	H	45.15	34.42	15.81	60.96	50.23	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

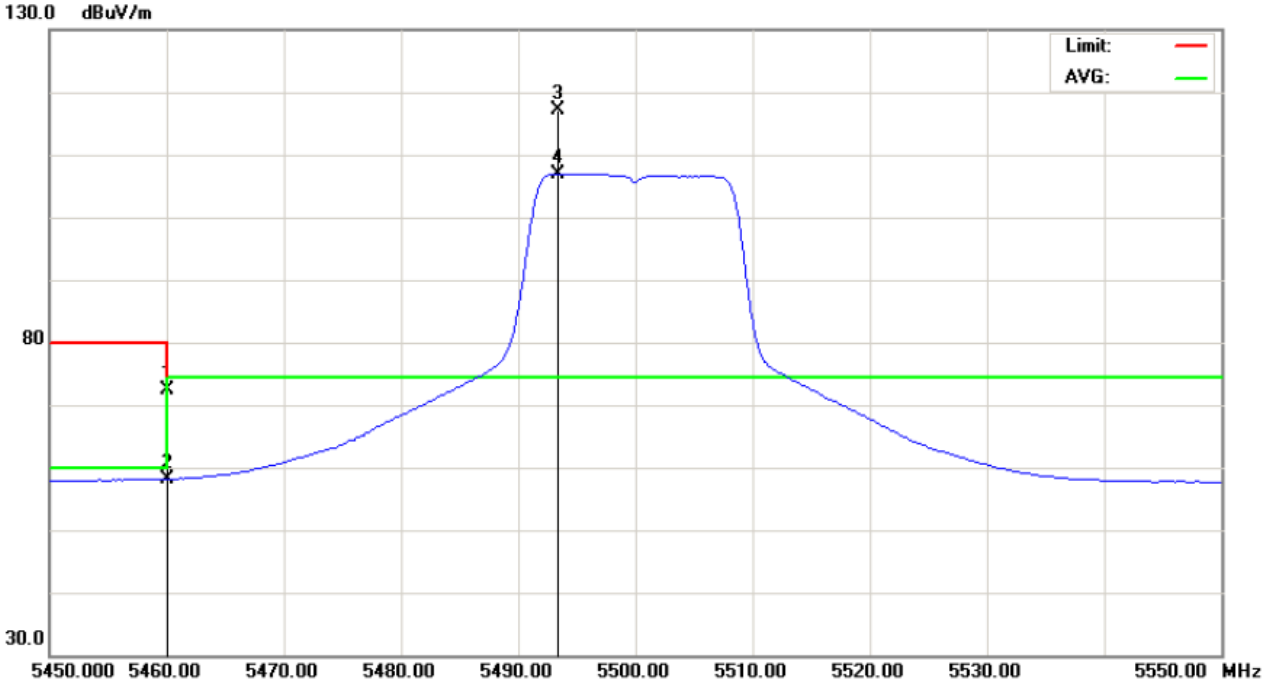
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

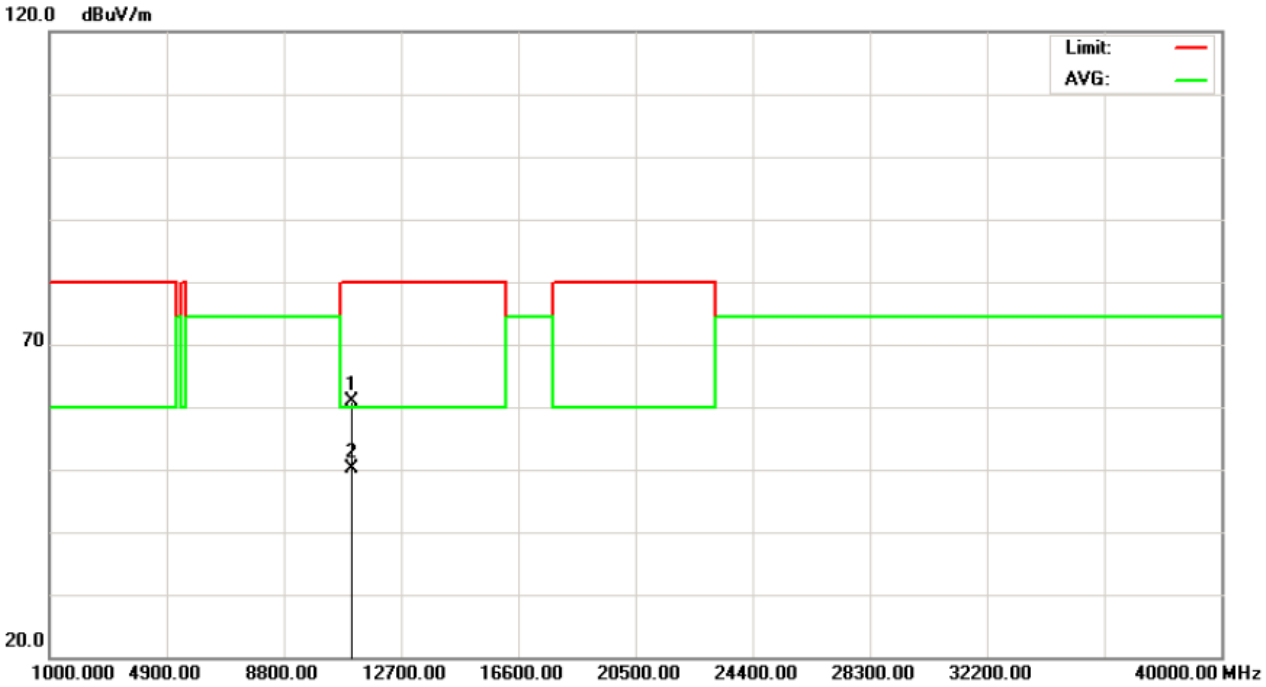
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH100 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH116		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5585.40	V	75.64	65.94	39.82	115.46	105.76			Y/F
11159.40	V	52.63	38.21	16.11	68.74	54.32	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

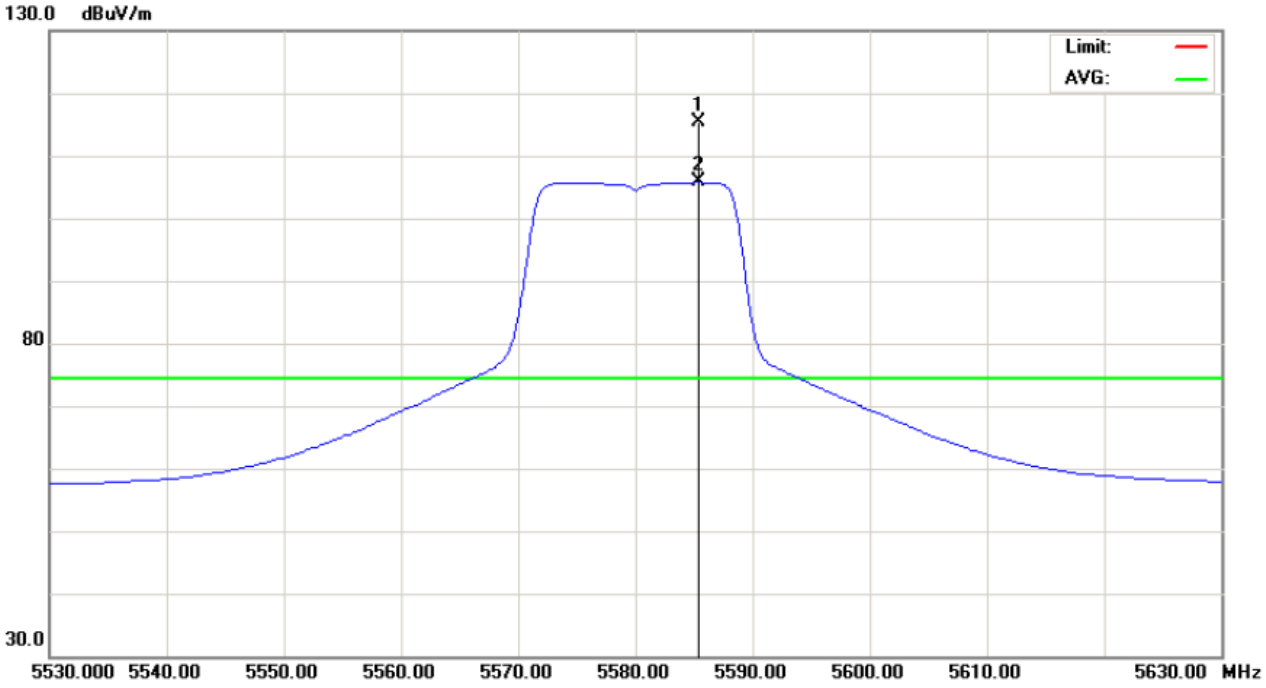
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

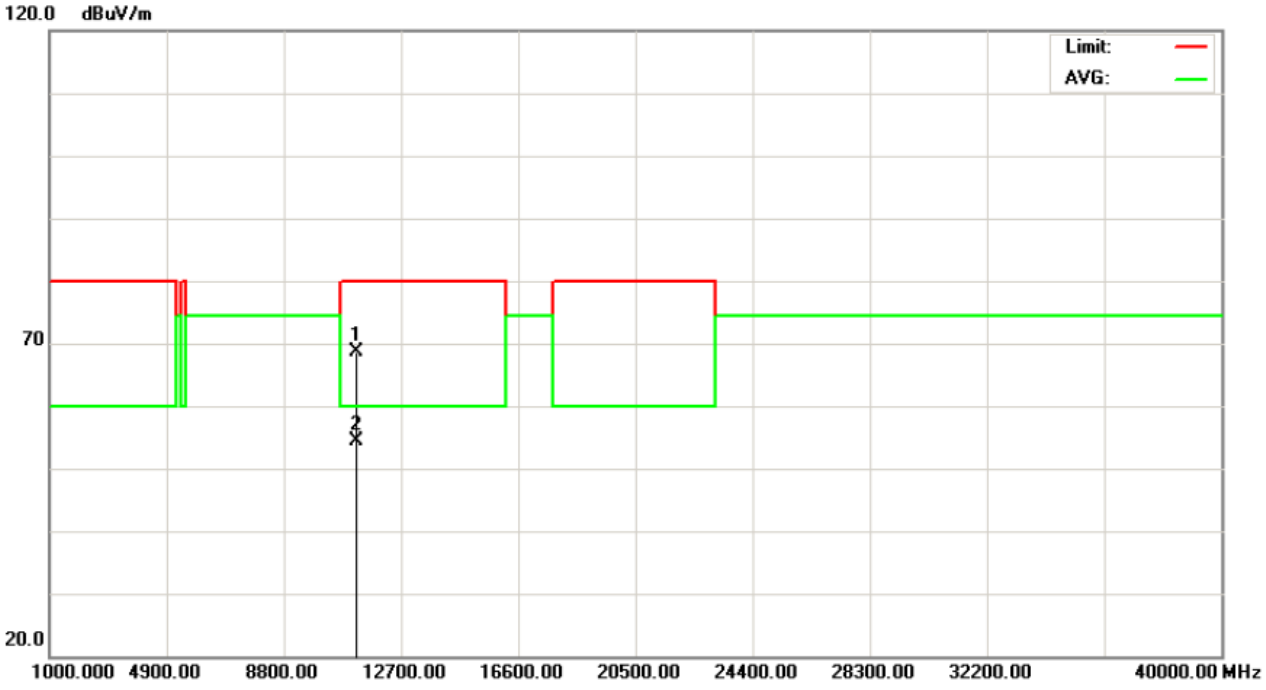
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH116 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH116		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5574.40	H	77.92	68.20	39.80	117.72	108.00			Y/F
11160.40	H	47.28	34.83	16.11	63.39	50.94	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

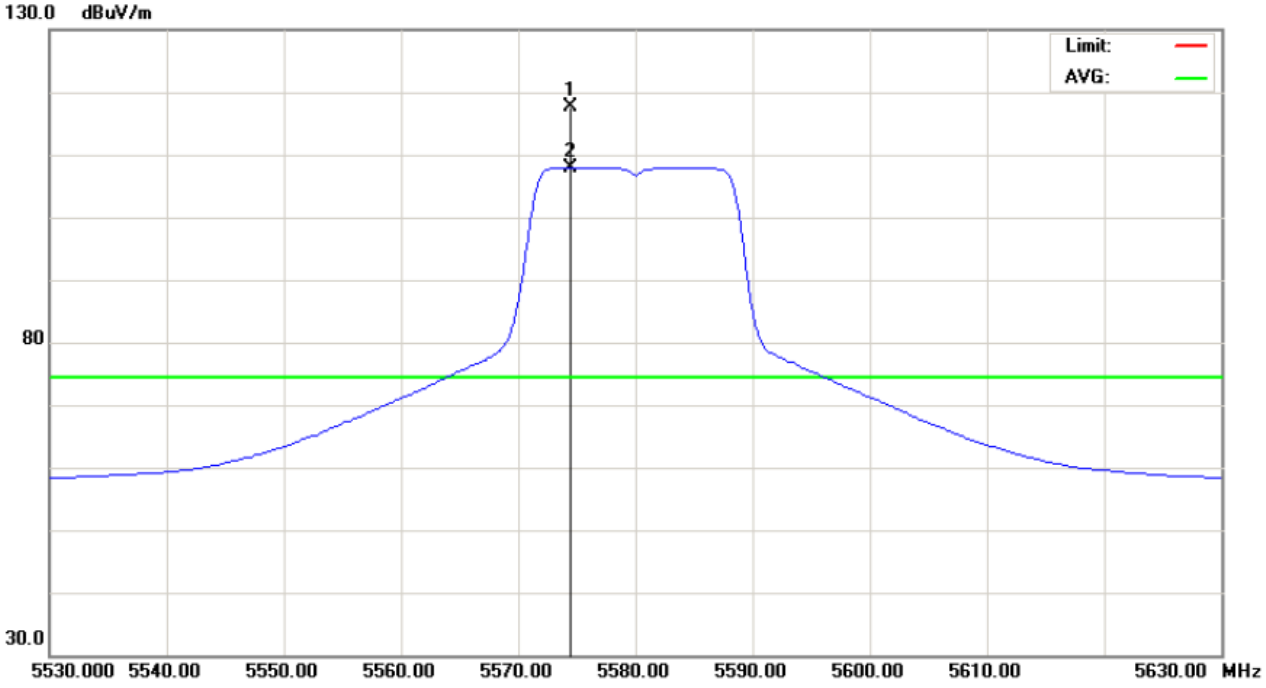
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

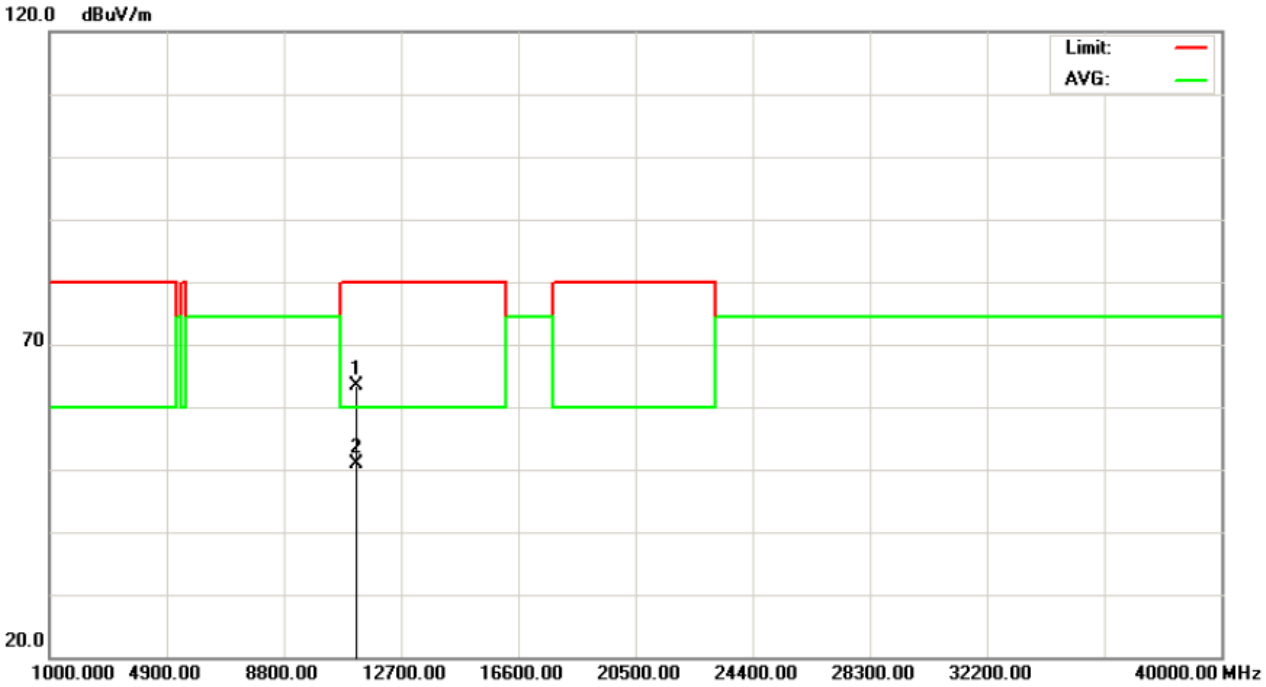
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH116 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH140		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5694.80	V	69.33	59.76	40.06	109.39	99.82			Y/F
5725.00	V	31.90	17.99	40.13	72.03	58.12	74.30	74.30	Y/H
11401.60	V	43.20	30.89	16.57	59.77	47.46	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

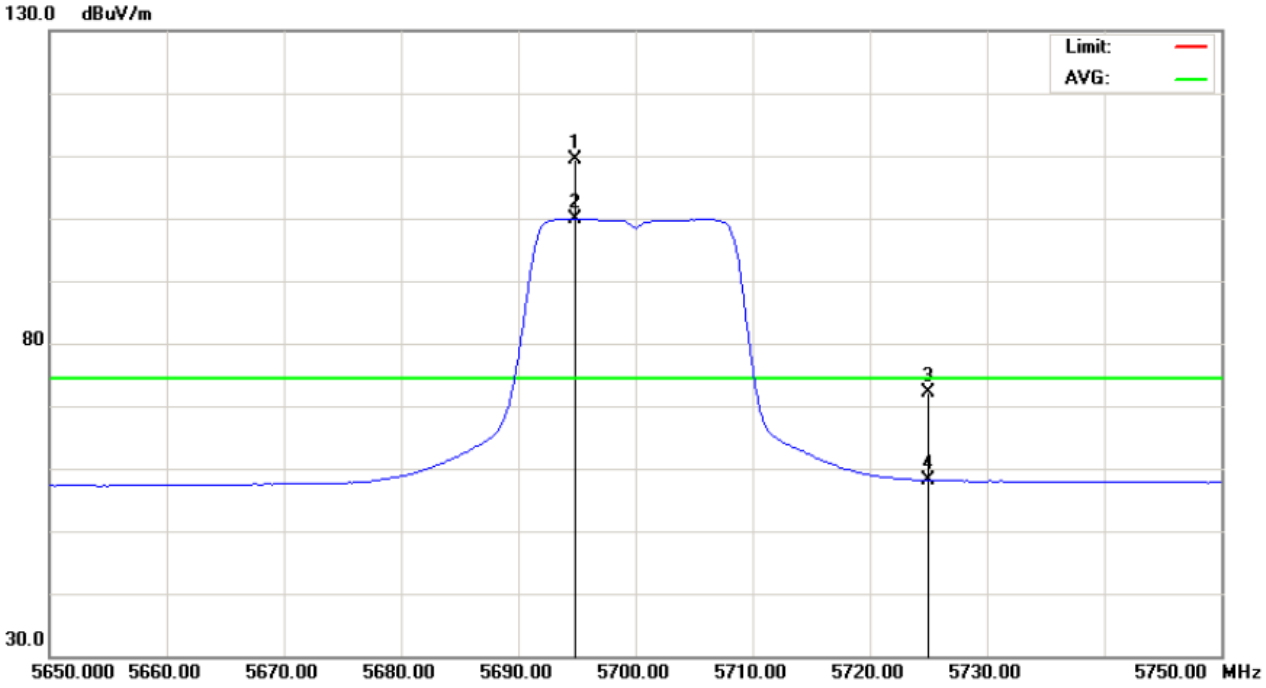
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

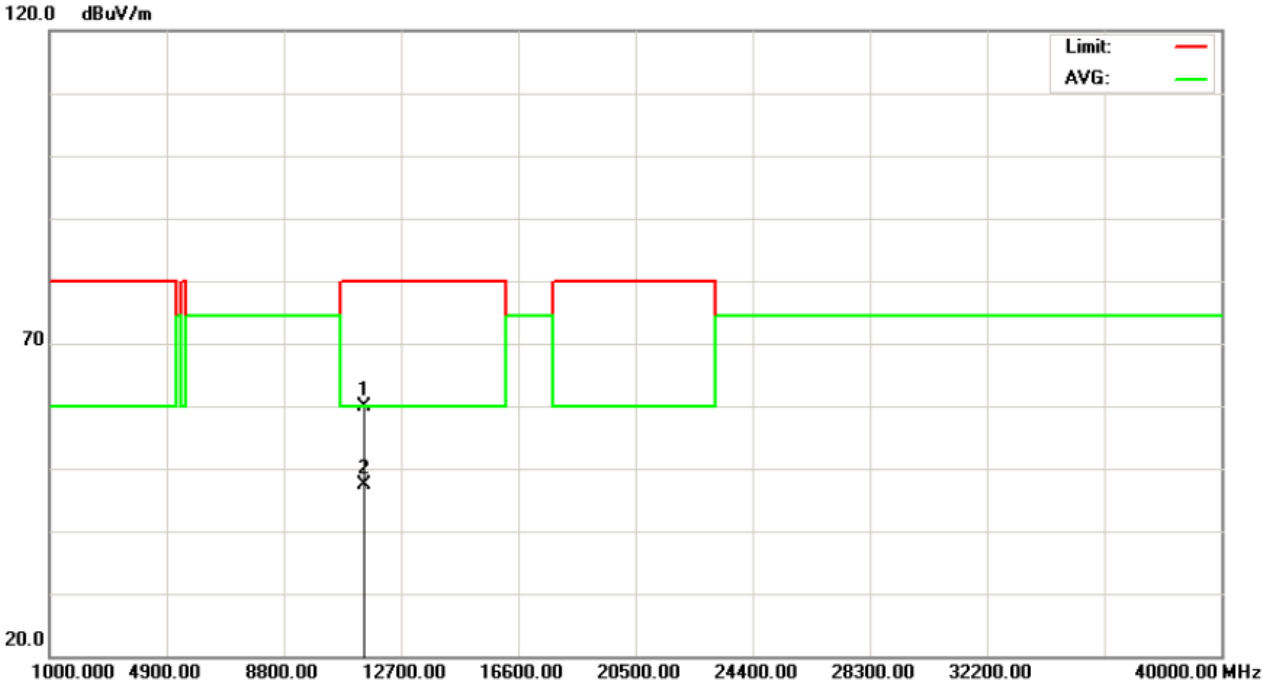
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH140 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a/CH140		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5693.40	H	72.64	62.28	40.06	112.70	102.34			Y/F
5725.00	H	31.40	18.36	40.13	71.53	58.49	74.30	74.30	Y/H
11400.00	H	43.12	31.42	16.56	59.68	47.98	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

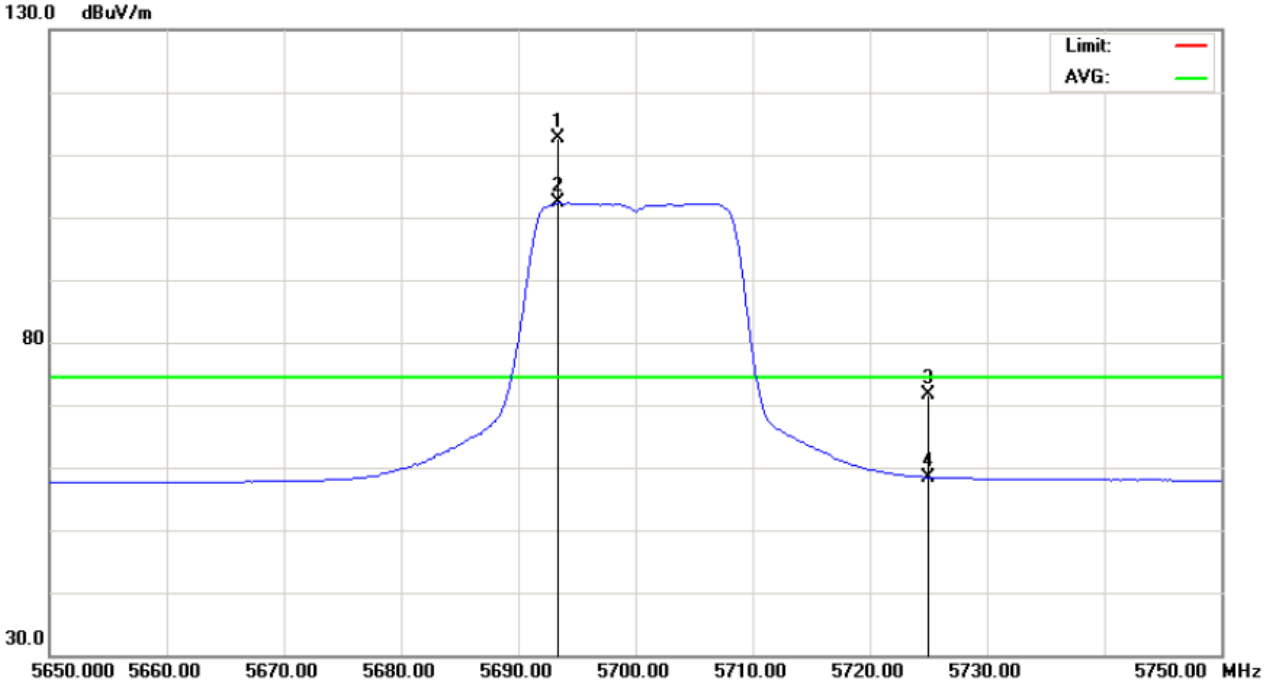
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

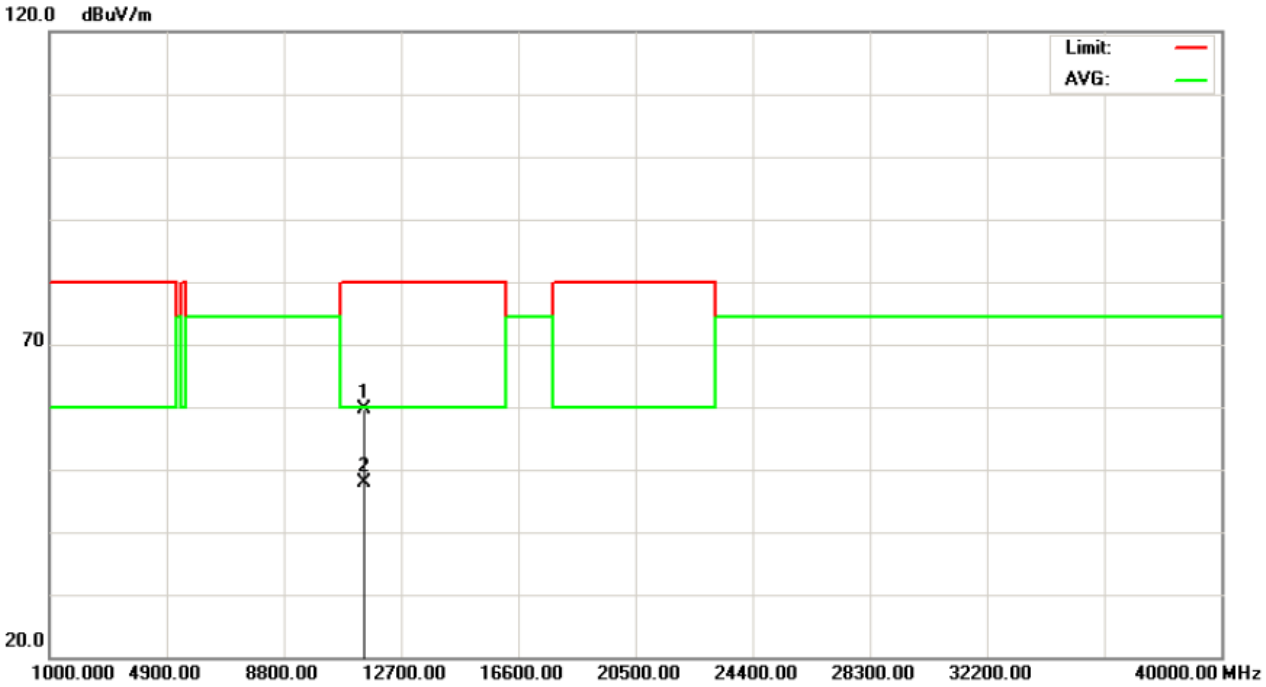
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11a/CH140 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	30.09	18.41	39.60	69.69	58.01	74.30	60.00	Y/E
5492.40	V	76.21	64.11	39.63	115.84	103.74			Y/F
11199.40	V	30.70	41.84	16.18	46.88	58.02	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

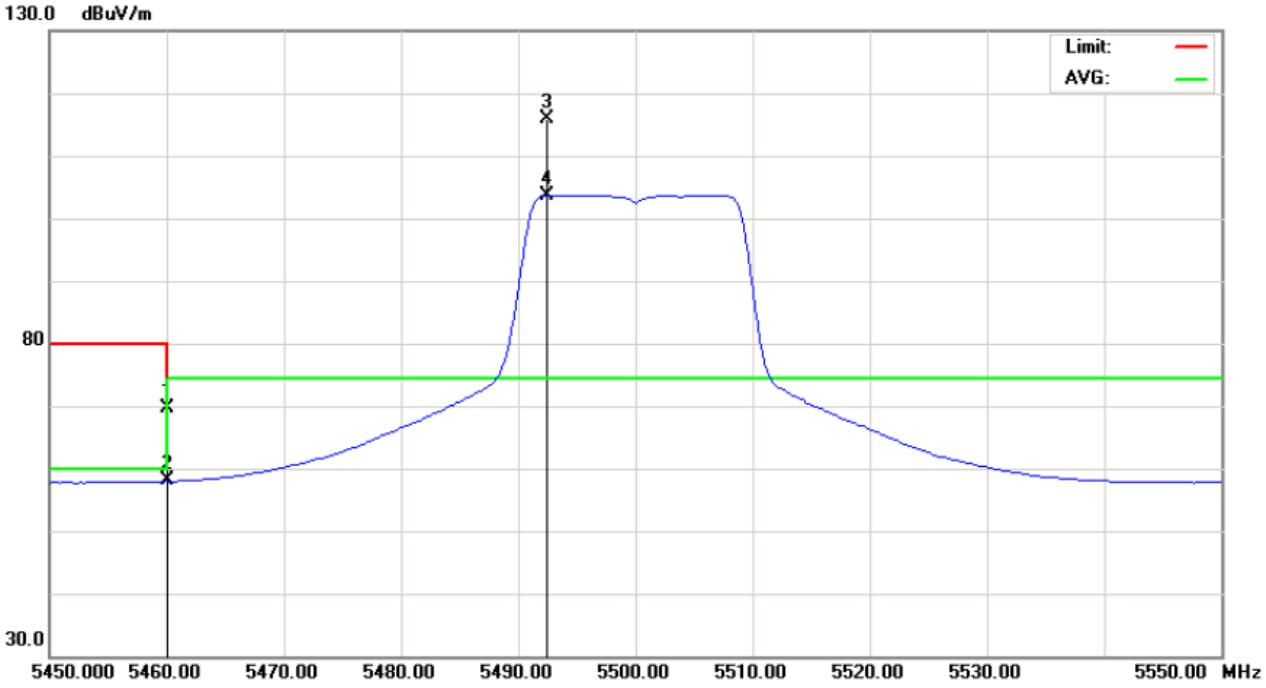
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

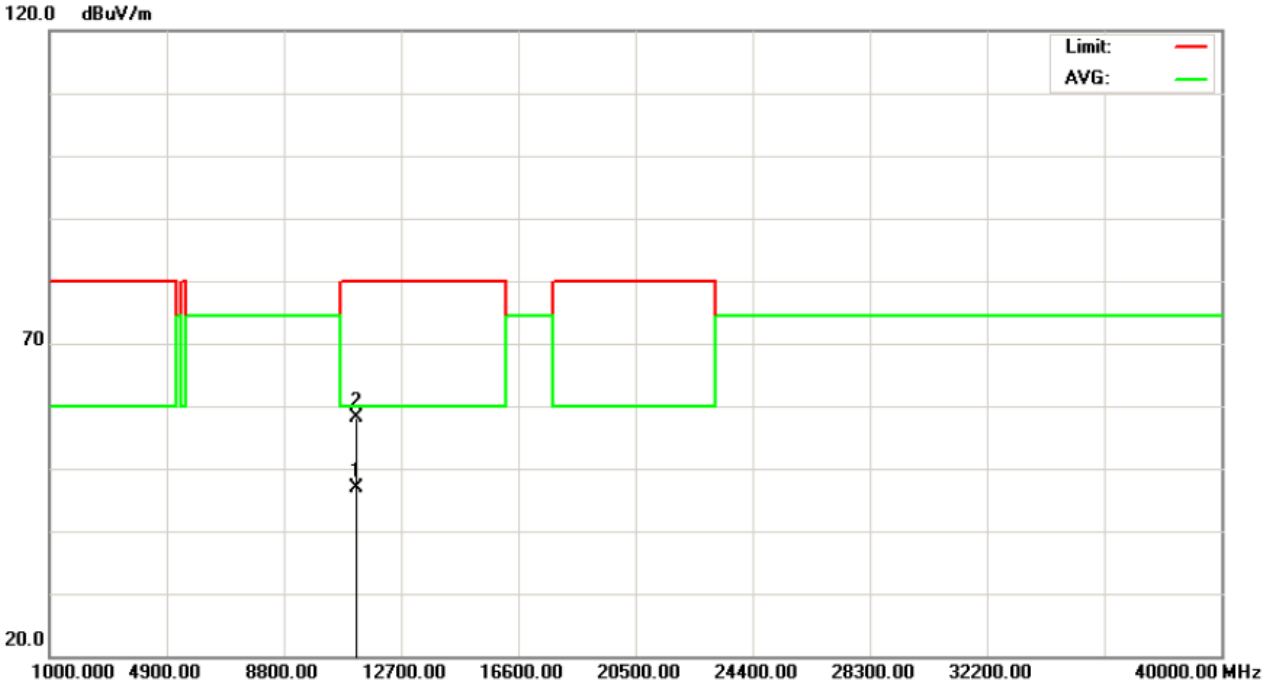
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH100 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	31.31	18.85	39.60	70.91	58.45	74.30	60.00	Y/E
5494.60	H	77.00	66.57	39.63	116.63	106.20			Y/F
11199.40	H	41.19	30.61	16.18	57.37	46.79	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

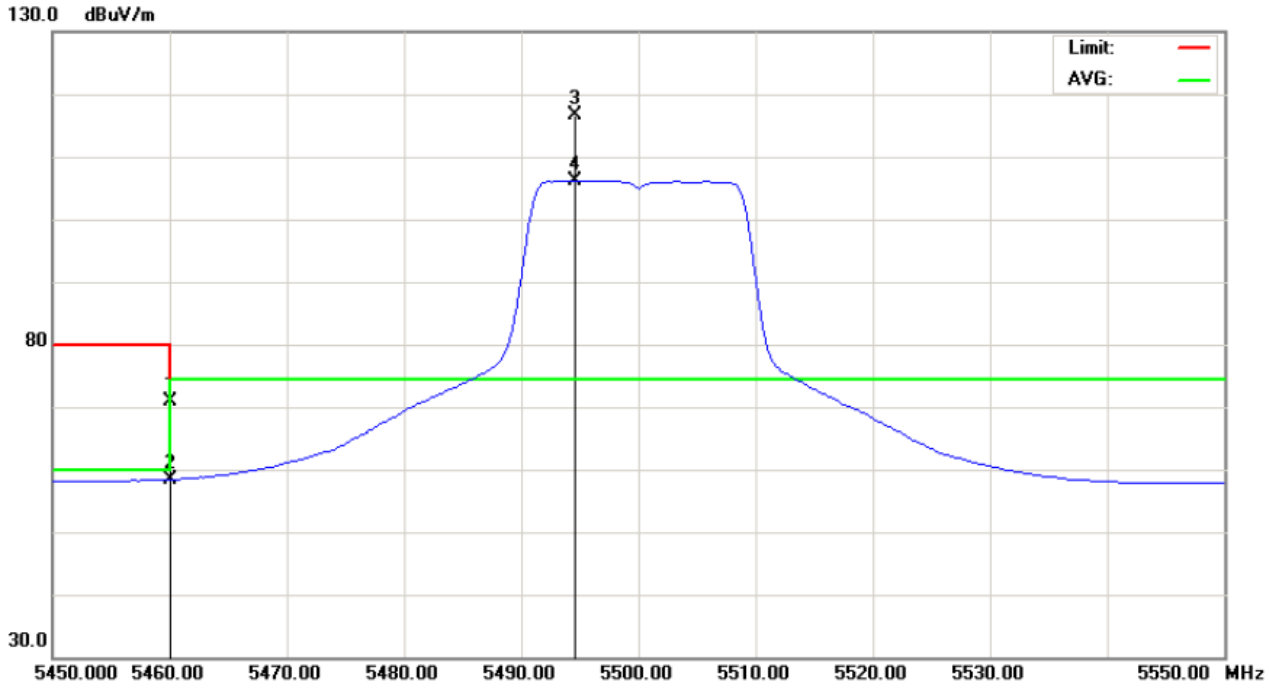
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

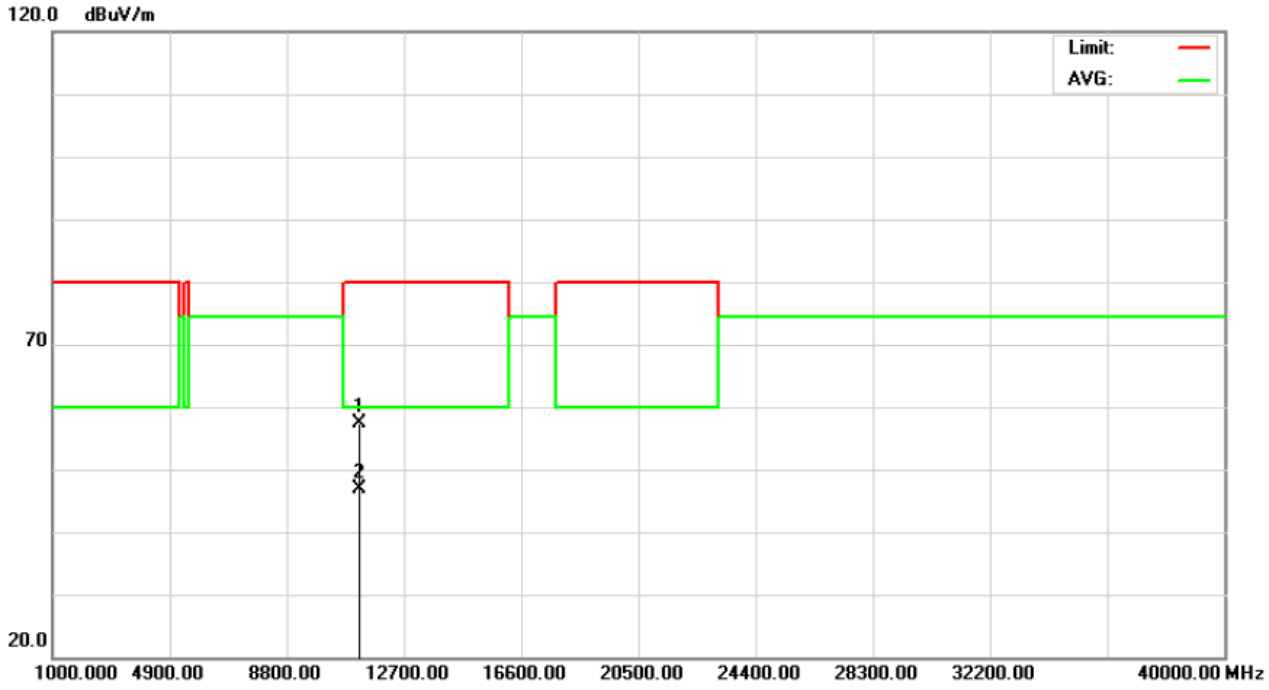
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH100 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH116		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5585.40	V	76.74	65.96	39.82	116.56	105.78			Y/F
11160.20	V	54.14	38.56	16.11	70.25	54.67	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

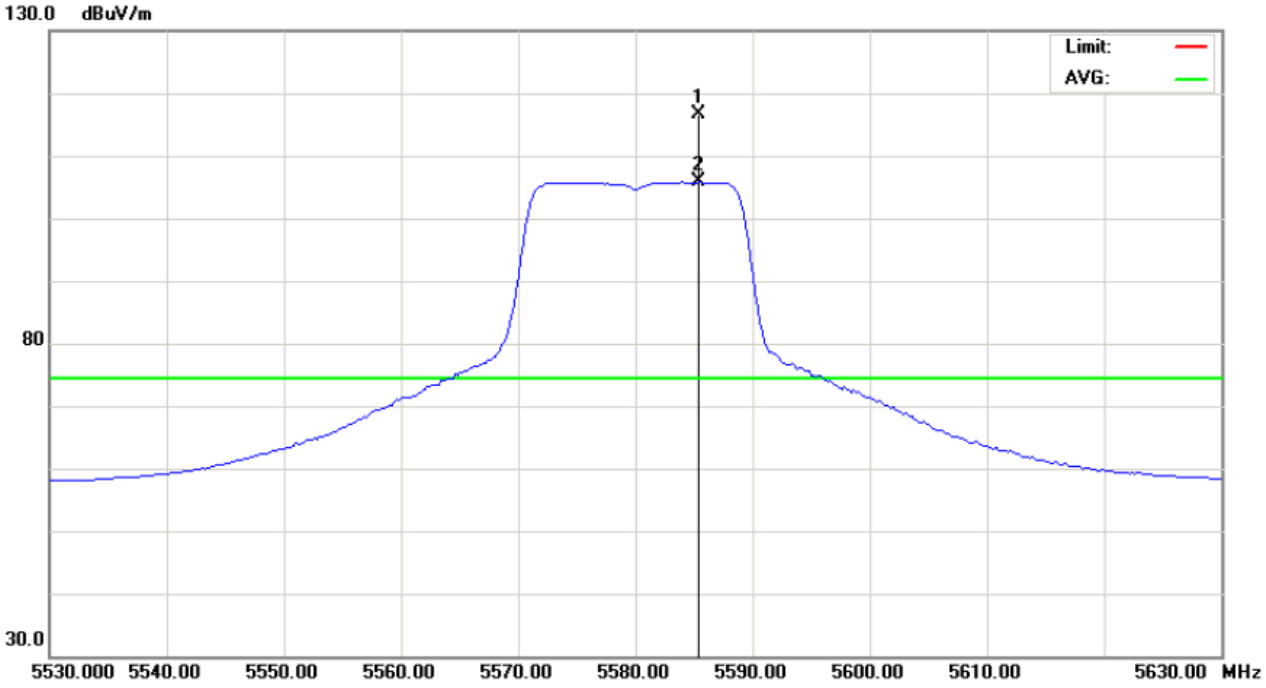
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

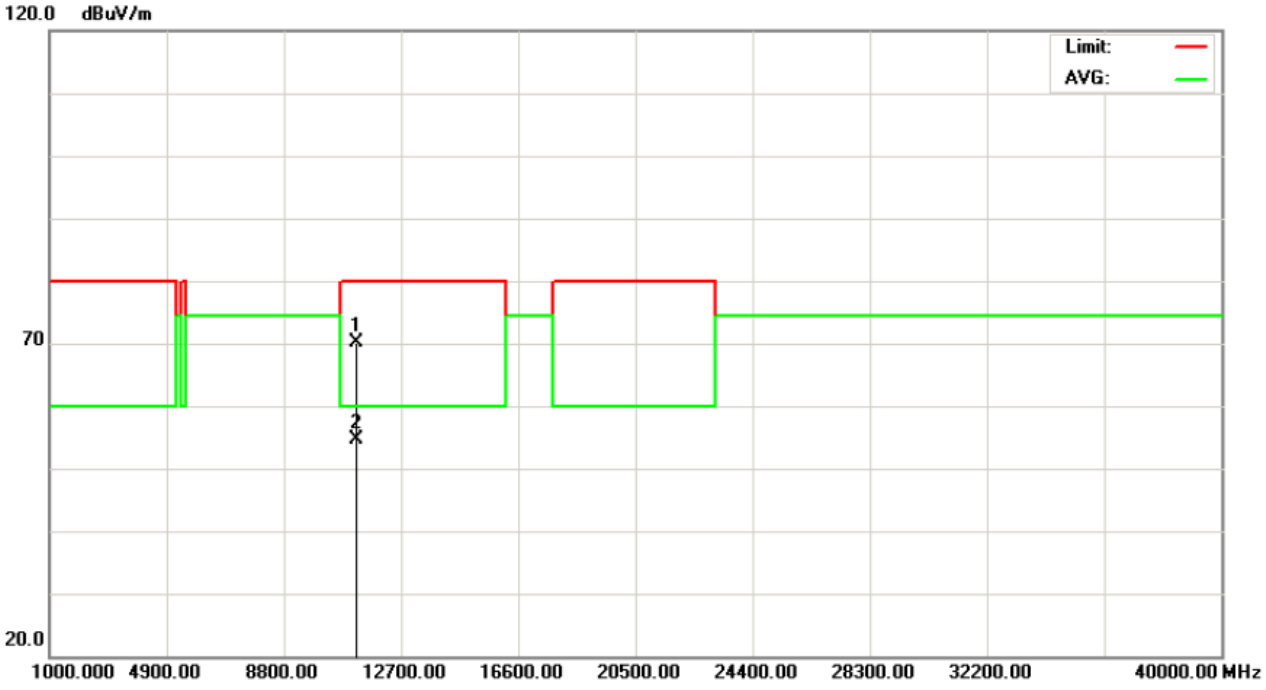
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH116 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH116		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5574.20	H	79.63	68.57	39.80	119.43	108.37			Y/F
11159.80	H	50.65	37.20	16.11	66.76	53.31	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

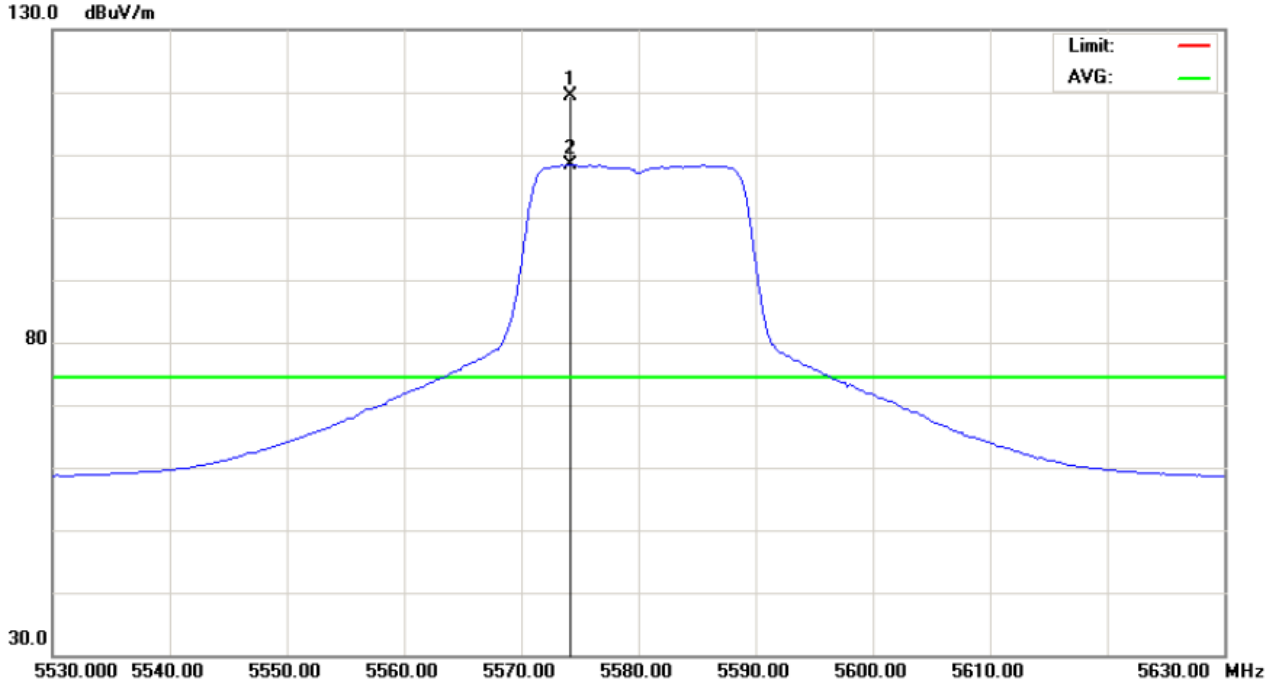
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

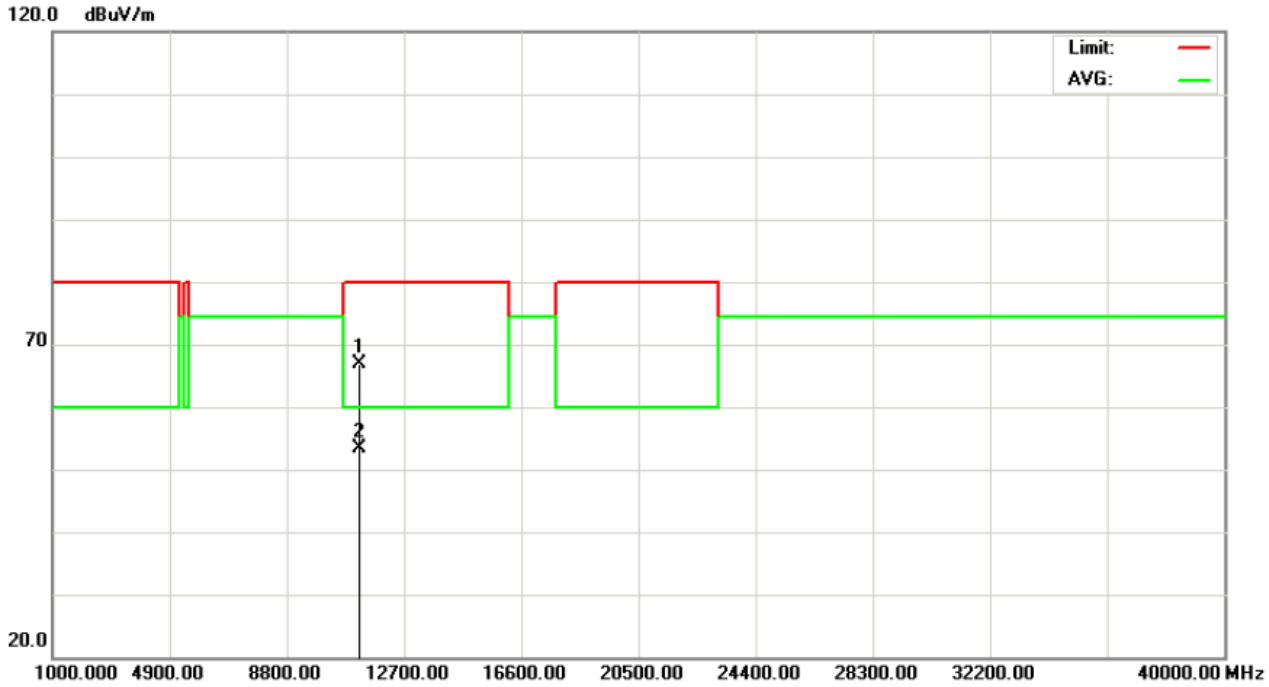
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH116 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH140		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5693.60	V	70.99	60.29	40.06	111.05	100.35			Y/F
5725.00	V	29.99	18.12	40.13	70.12	58.25	74.30	74.30	Y/H
11398.80	V	41.75	30.96	16.56	58.31	47.52	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

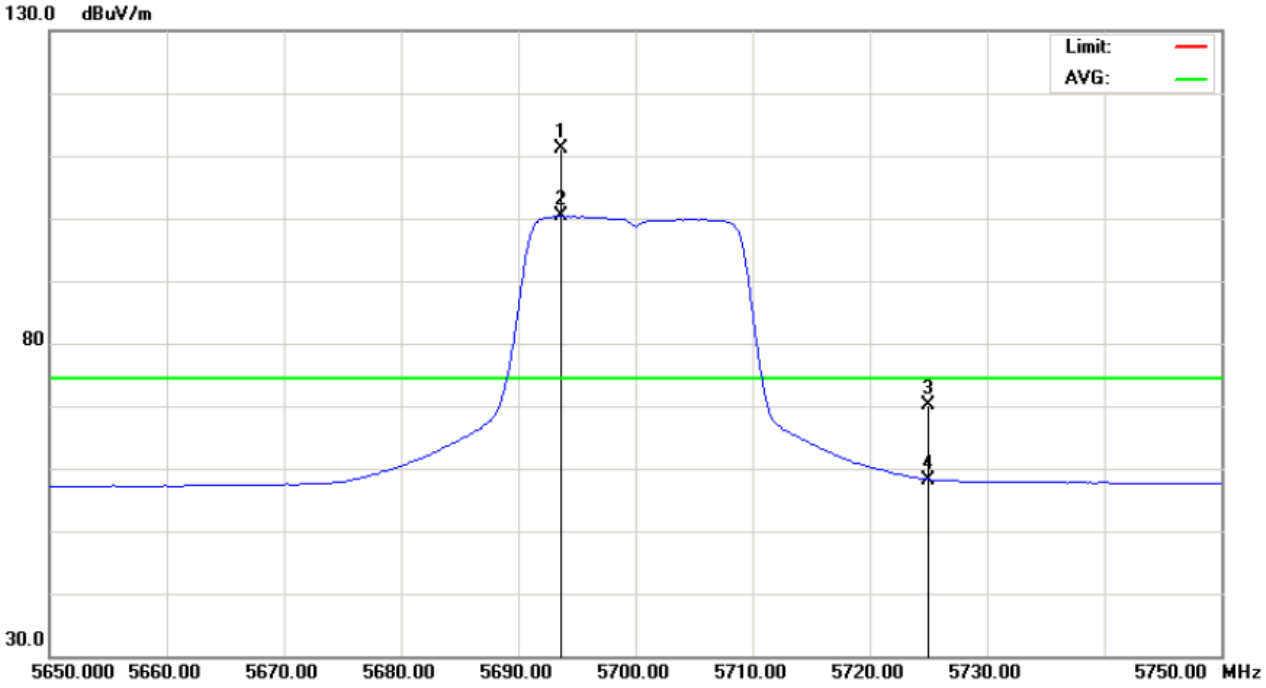
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

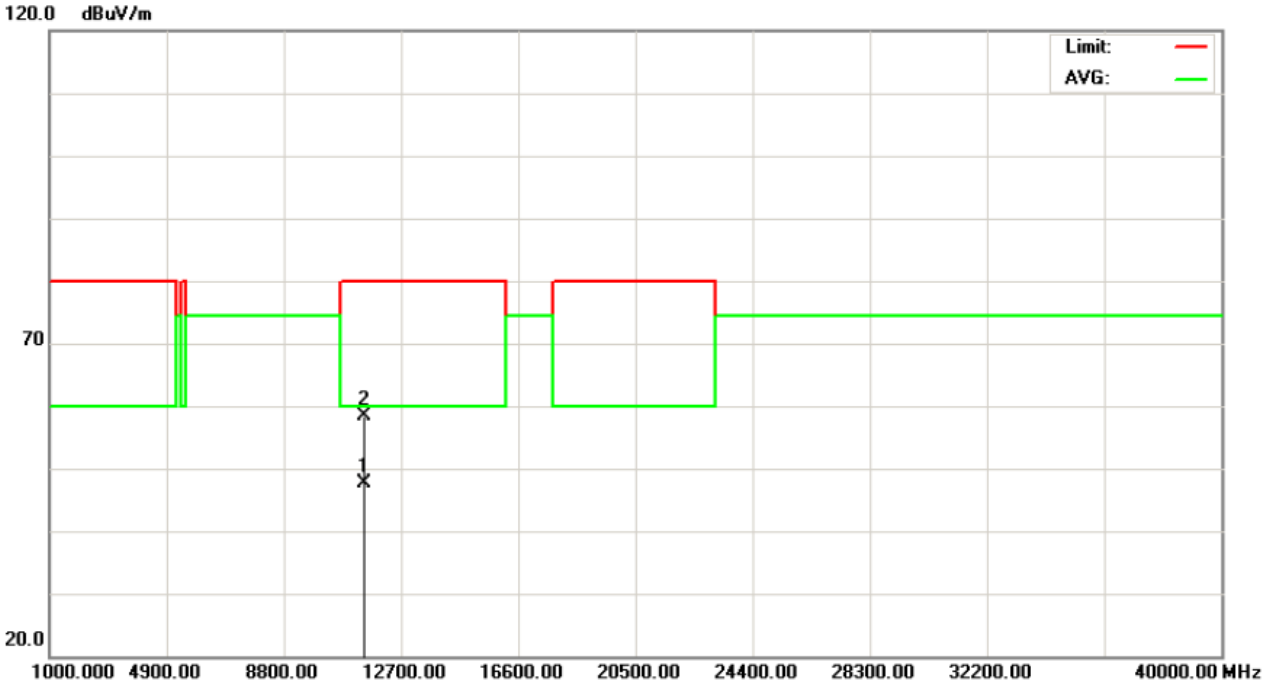
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH140 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH140		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5693.20	H	72.55	61.39	40.06	112.61	101.45			Y/F
5725.00	H	33.16	18.38	40.13	73.29	58.51	74.30	74.30	Y/H
11400.00	H	43.65	31.86	16.56	60.21	48.42	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

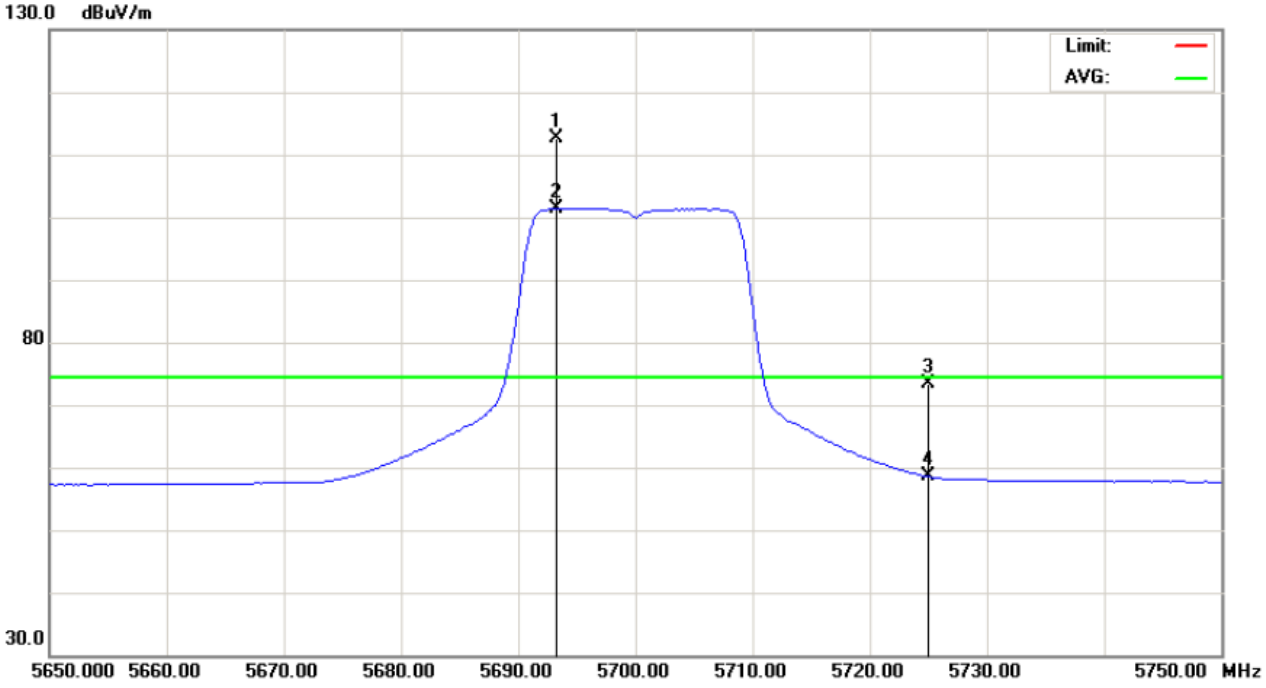
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

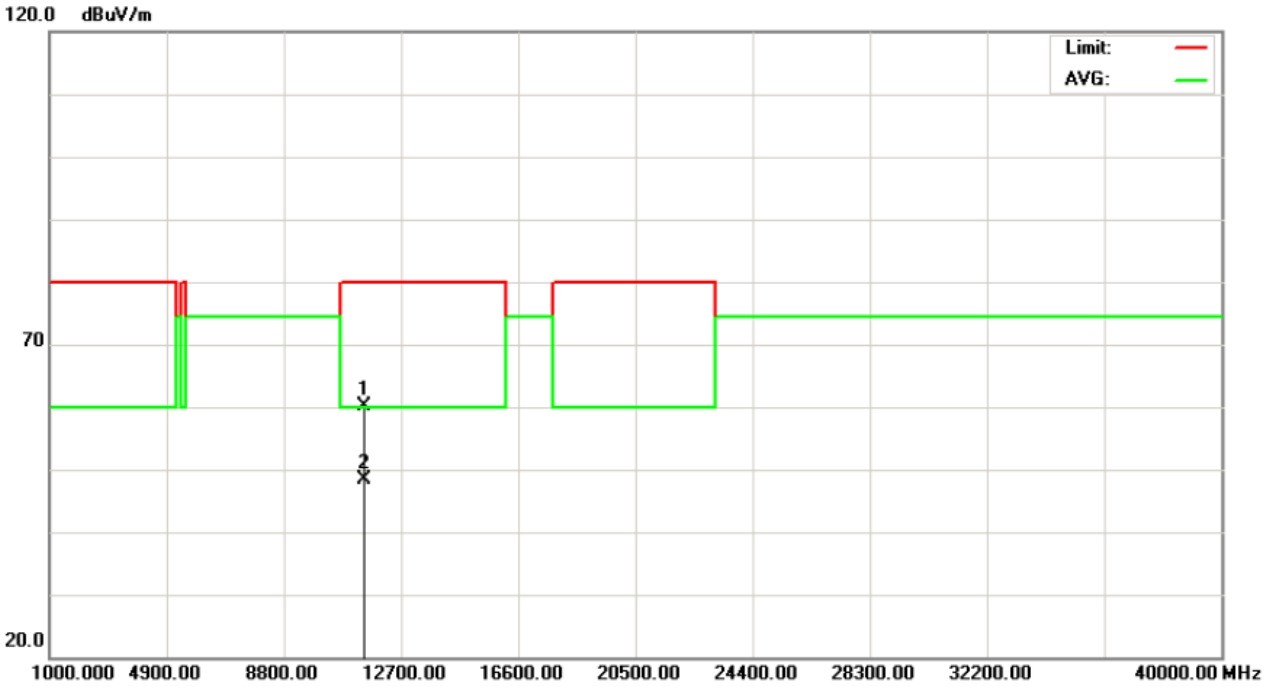
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/20M/CH140 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	28.99	17.45	39.60	68.59	57.05	74.30	60.00	Y/E
5496.80	V	65.25	54.20	39.64	104.89	93.84			Y/F
11015.60	V	42.18	30.50	15.84	58.02	46.34	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

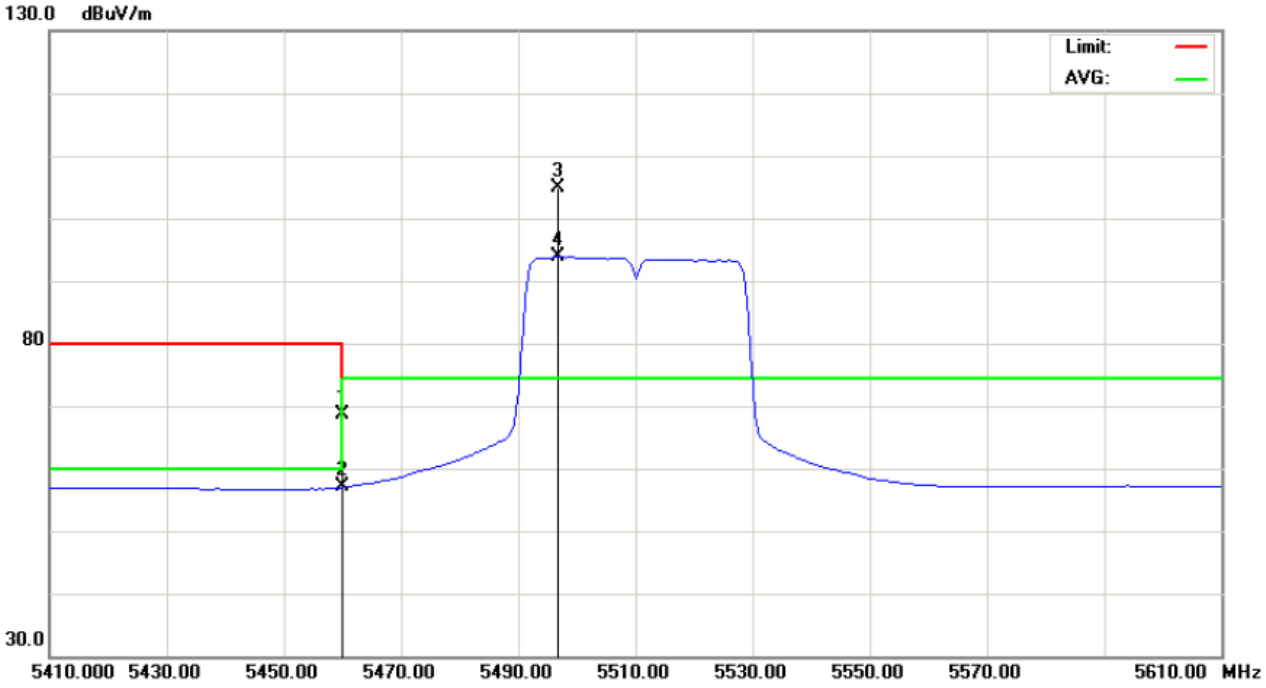
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

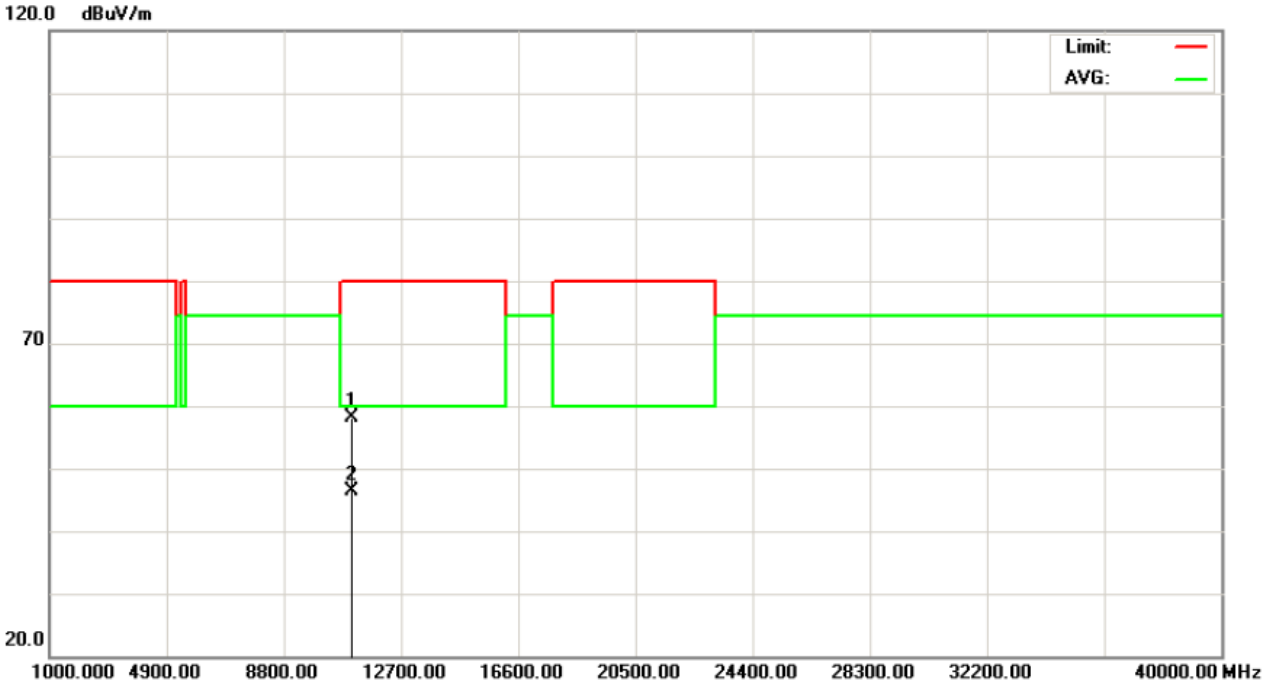
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH102 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	32.71	19.21	39.60	72.31	58.81	74.30	60.00	Y/E
5497.20	H	74.98	61.14	39.64	114.62	100.78			Y/F
11018.80	H	41.12	30.18	15.85	56.97	46.03	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

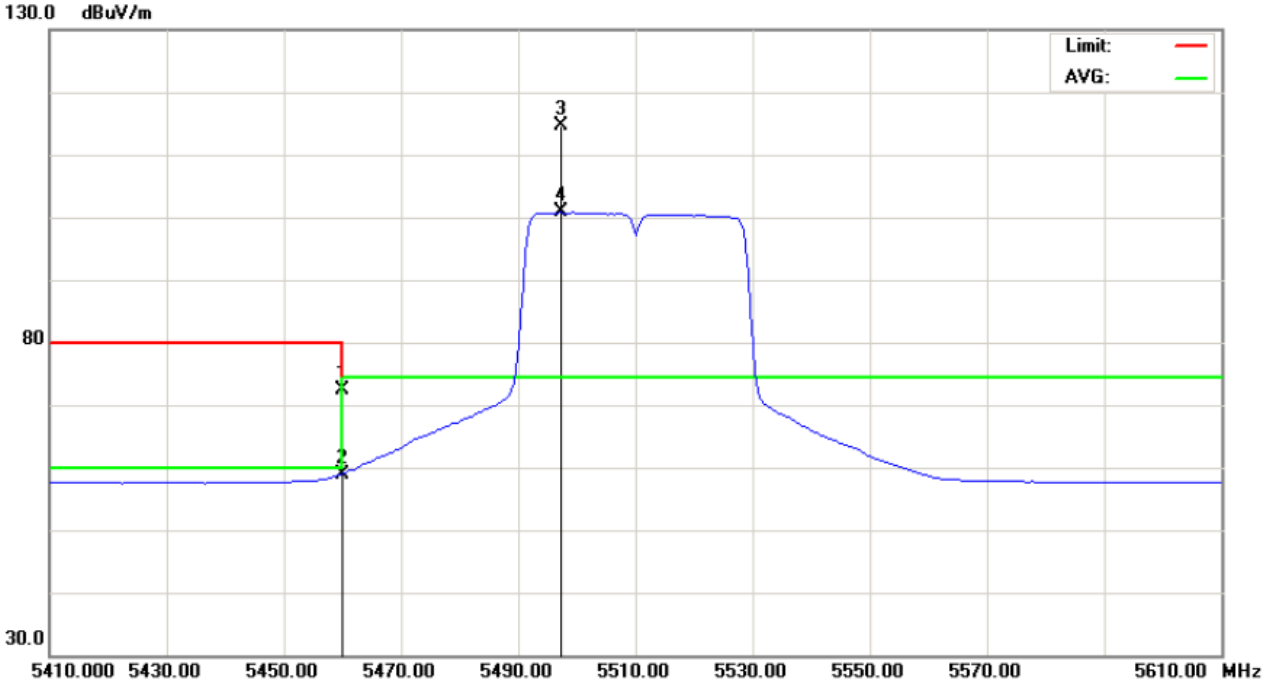
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

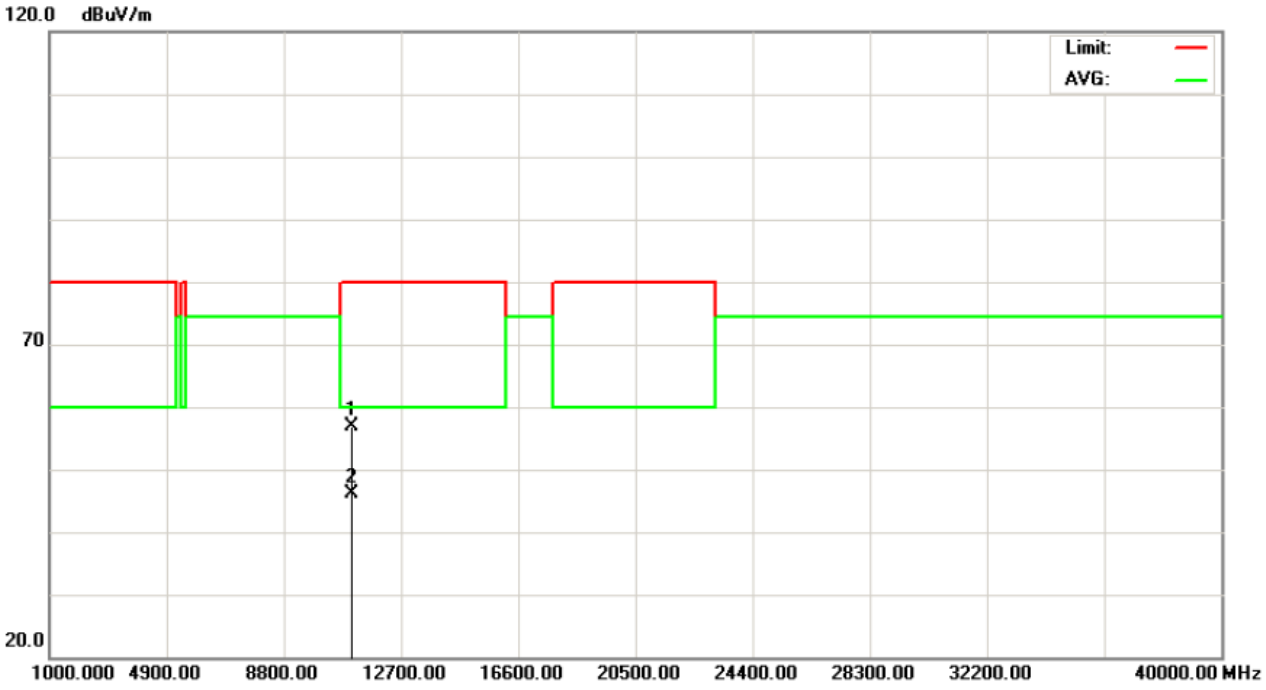
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH102 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH110		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5546.00	V	72.15	59.30	39.74	111.89	99.04			Y/F
11100.80	V	52.07	36.97	16.00	68.07	52.97	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

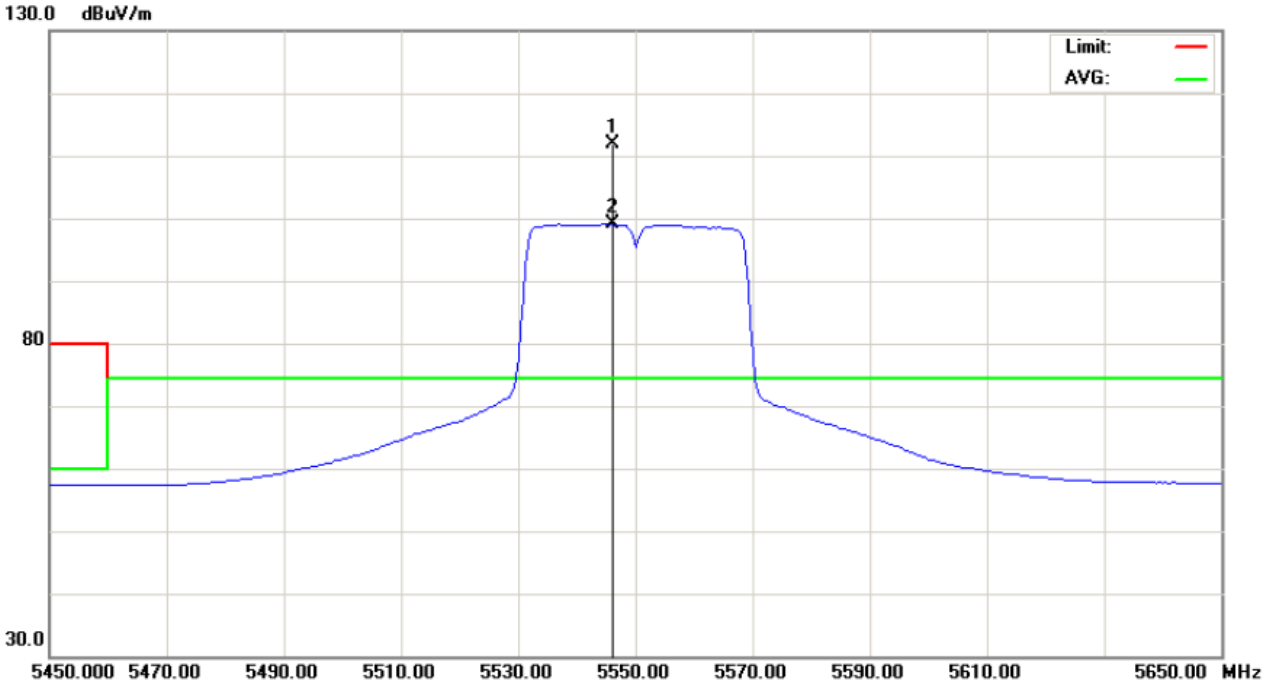
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

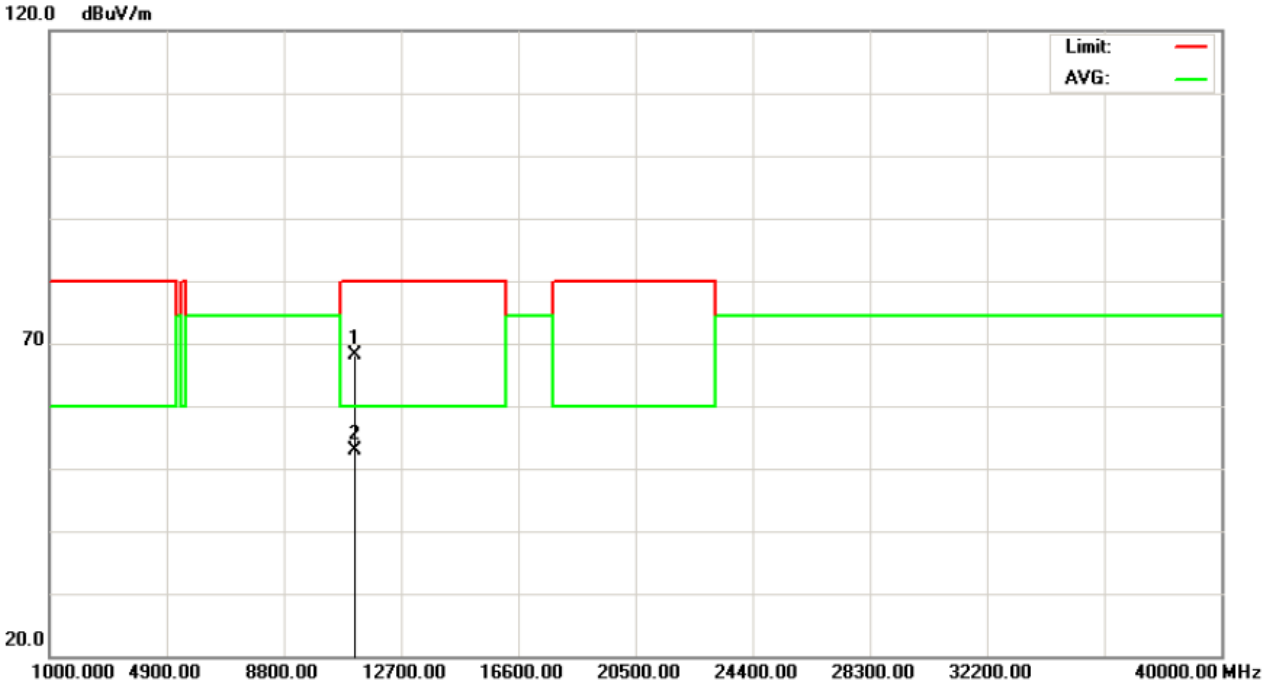
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH110 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/ CH110		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5545.60	H	77.46	66.57	39.74	117.20	106.31			Y/F
11100.00	H	45.81	34.64	16.00	61.81	50.64	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

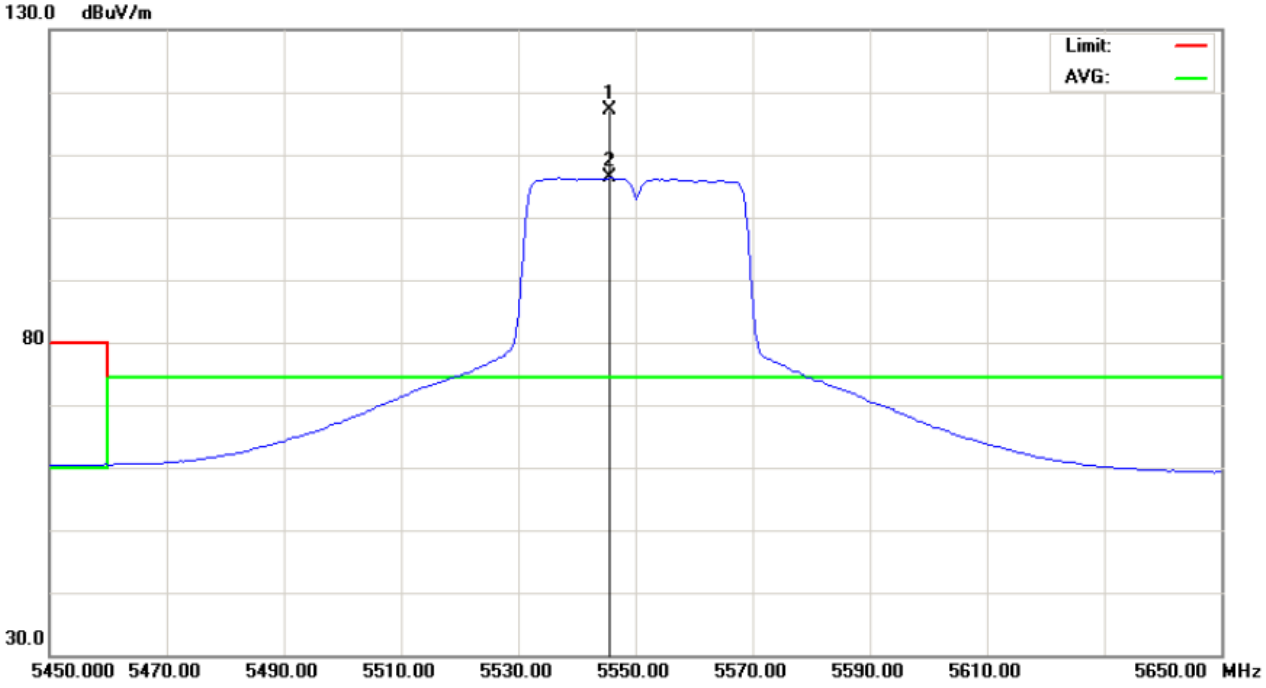
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

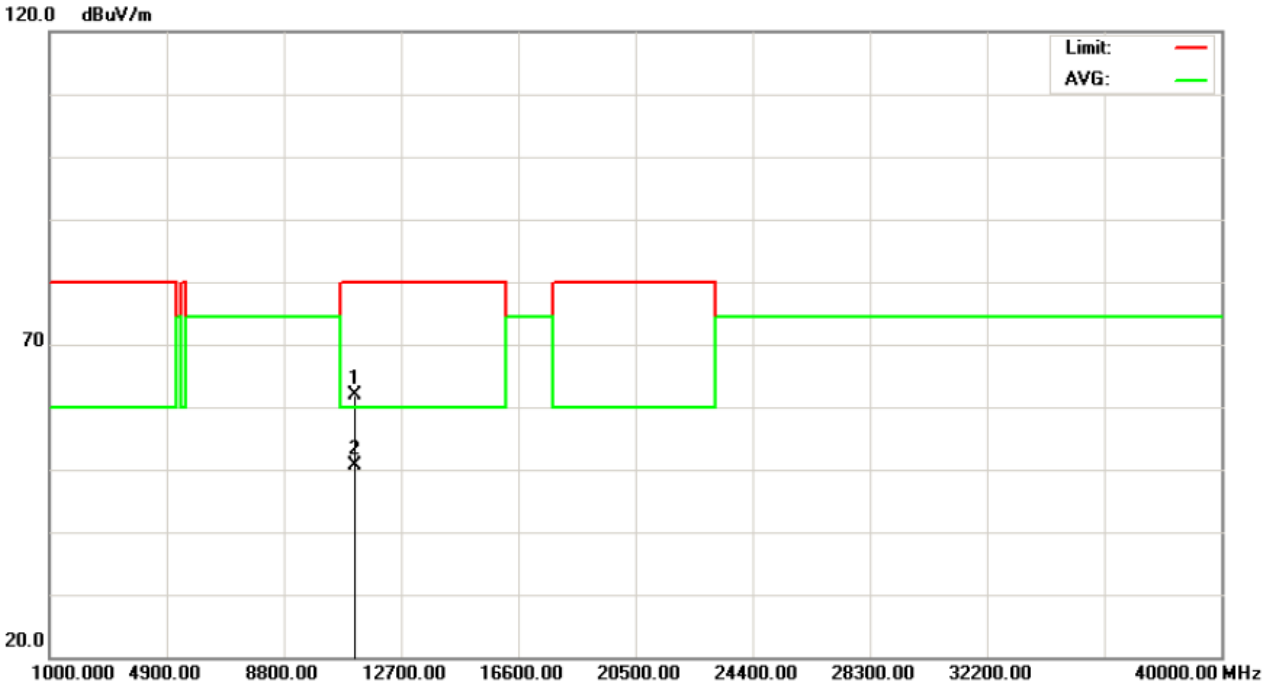
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH110 (Above 1000 MHz, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH134		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5674.00	V	69.00	56.77	40.02	109.02	96.79			Y/F
5725.00	V	9.78	18.24	40.13	49.91	58.37	74.30	74.30	Y/H
11340.00	V	43.26	32.15	16.45	59.71	48.60	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

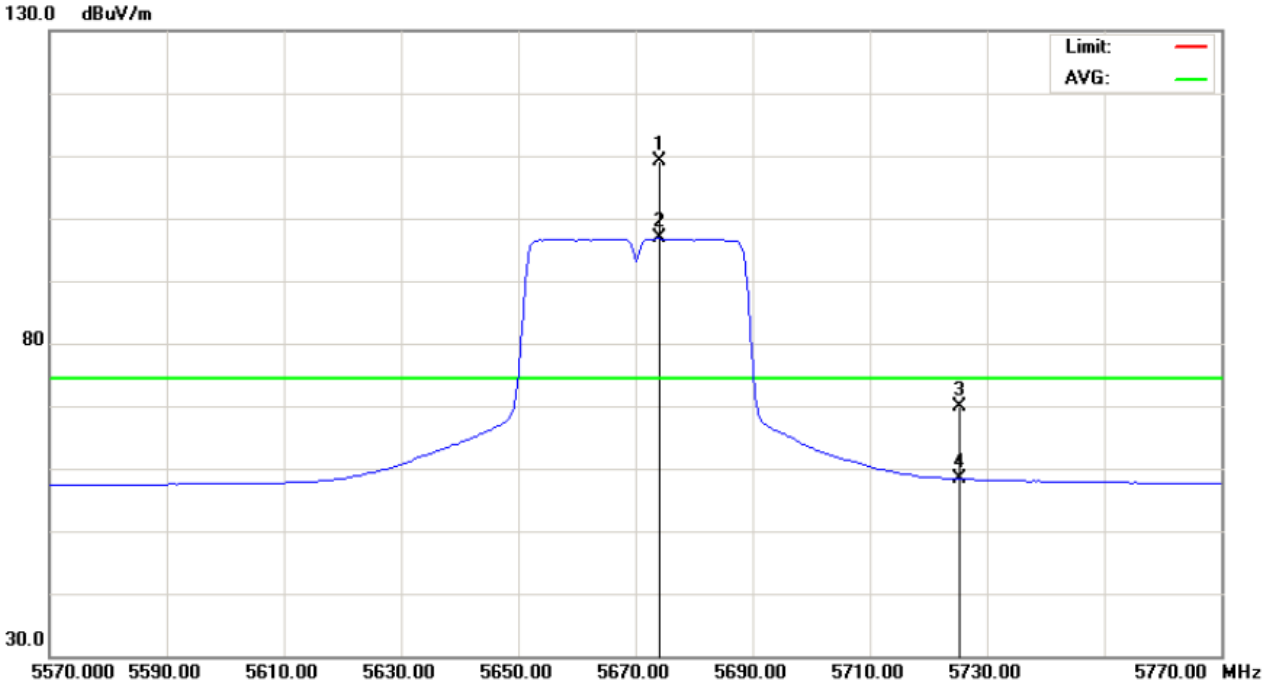
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

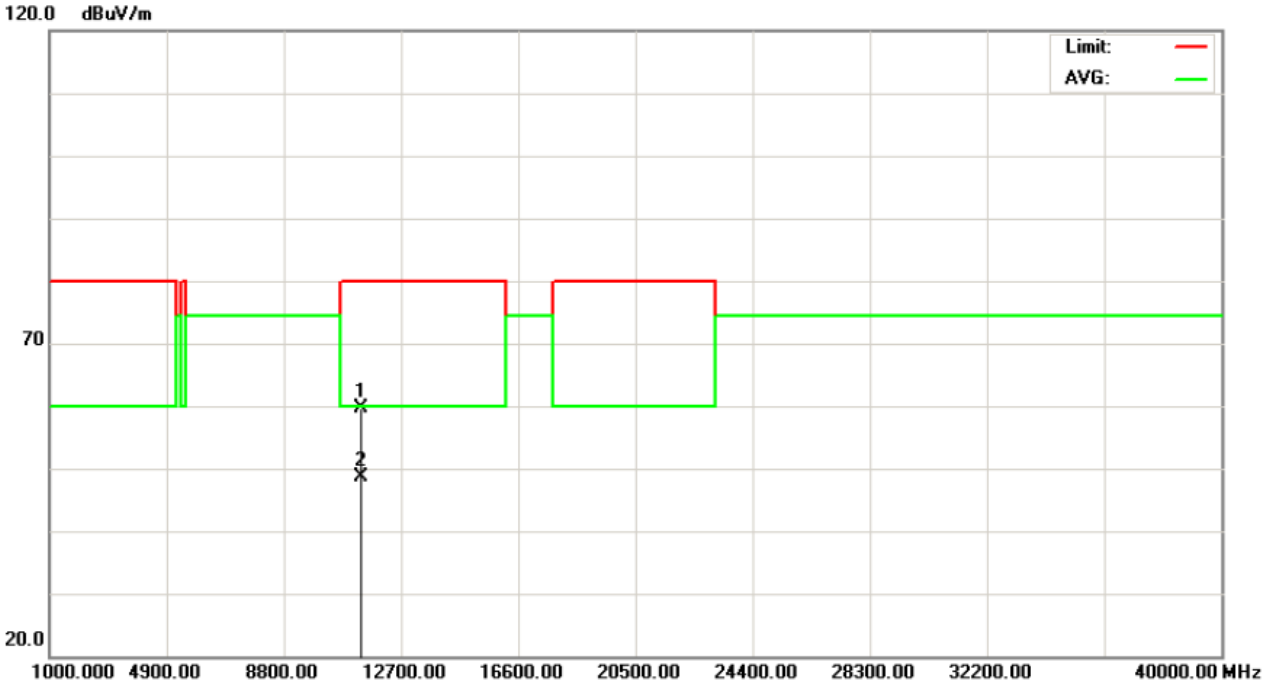
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH134 (Above 1000 MHz, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH134		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5662.00	H	76.17	63.41	39.99	116.16	103.40			Y/F
5725.00	H	33.16	20.30	40.13	73.29	60.43	74.30	74.30	Y/H
11340.00	H	44.75	32.29	16.45	61.20	48.74	80.00	60.00	Y/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated AV in column of『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

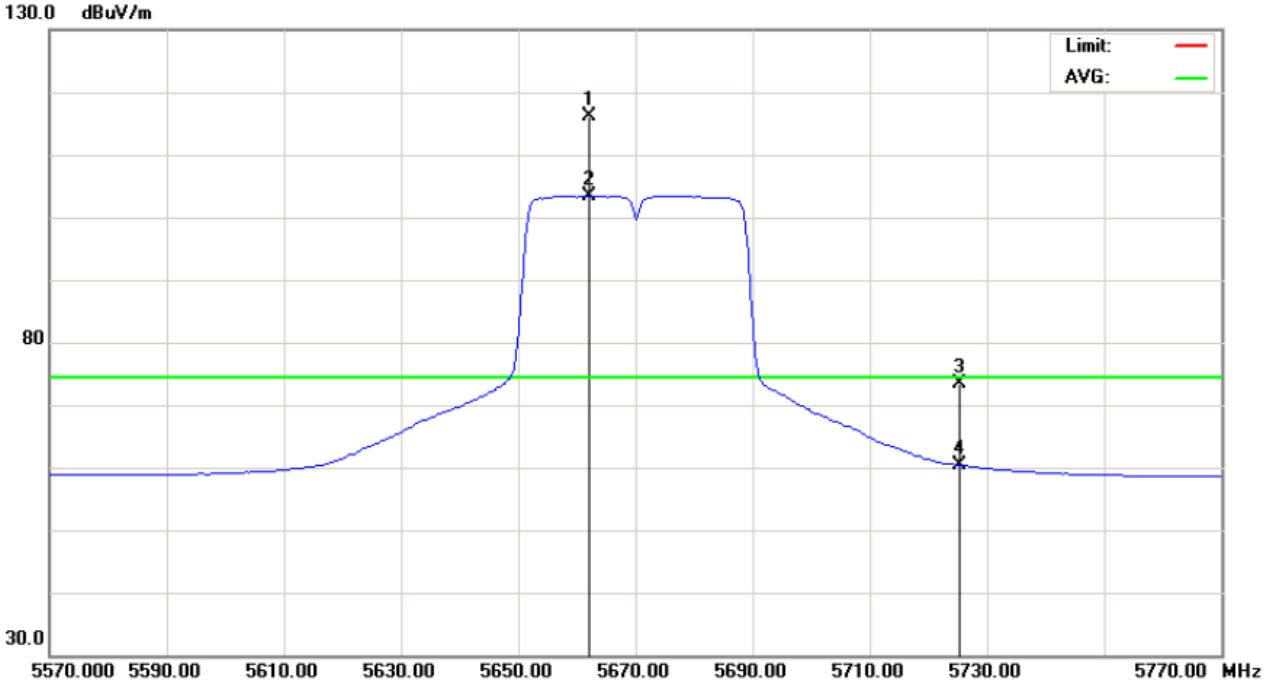
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

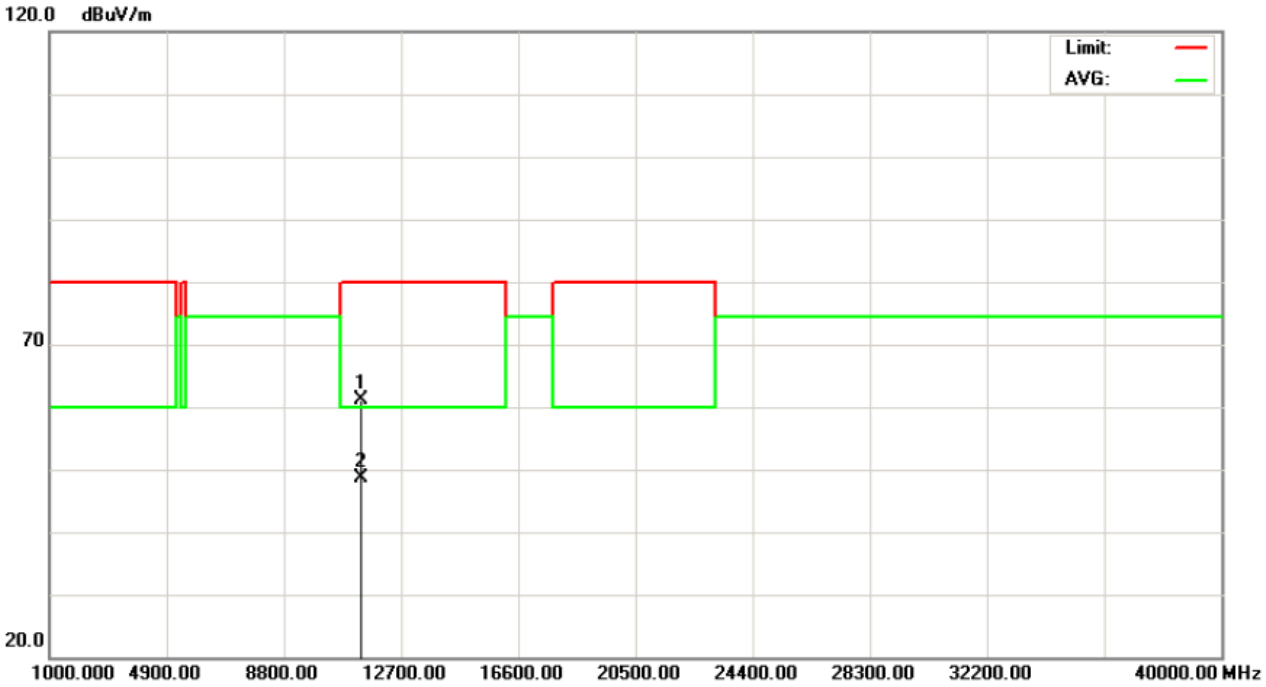
(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

(9) The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m
Distance extrapolation factor = 20 log (3m/1.5m) dB ;
Limit line = specific limits (dBuV) + 6 dB

Orthogonal Axis：Y
802.11n/40M/CH134 (Above 1000 MHz, Horizontal)





4.2.11 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a(Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH36/CH64 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH64). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.42	18.42	39.97	70.39	58.39	74.30	60.00	Y
5350.00	V	29.69	17.38	39.48	69.17	56.86	74.30	60.00	Y

Remark：

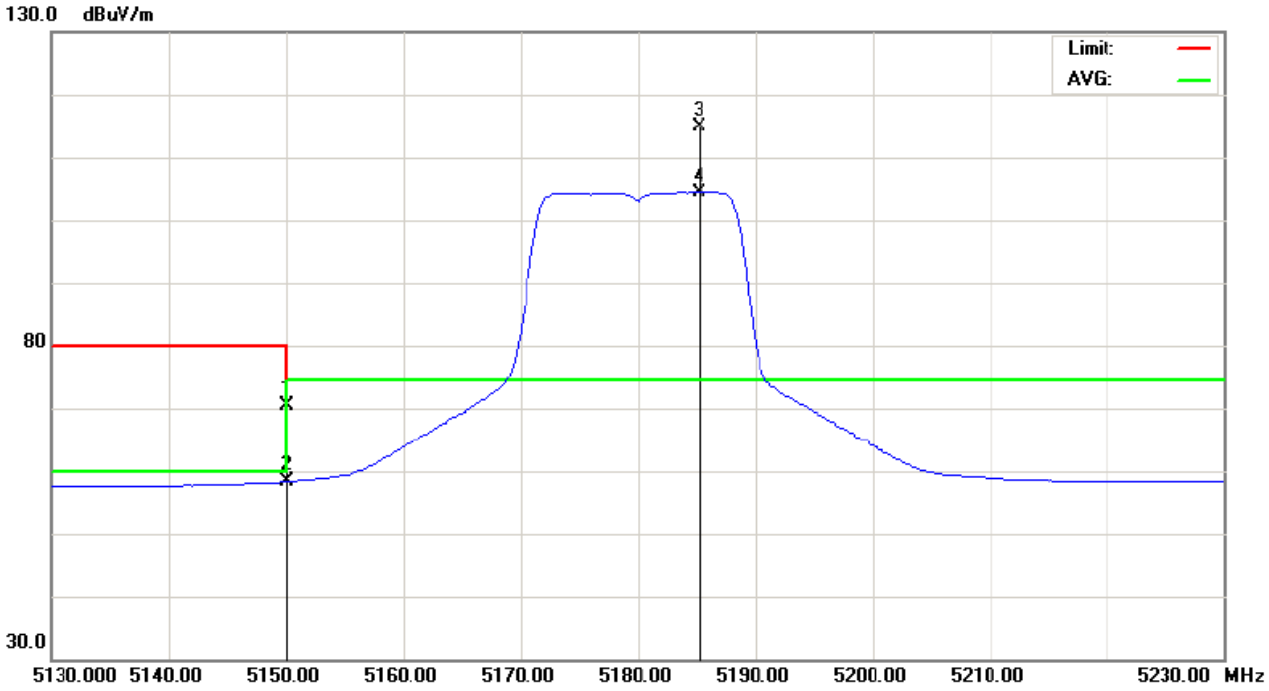
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

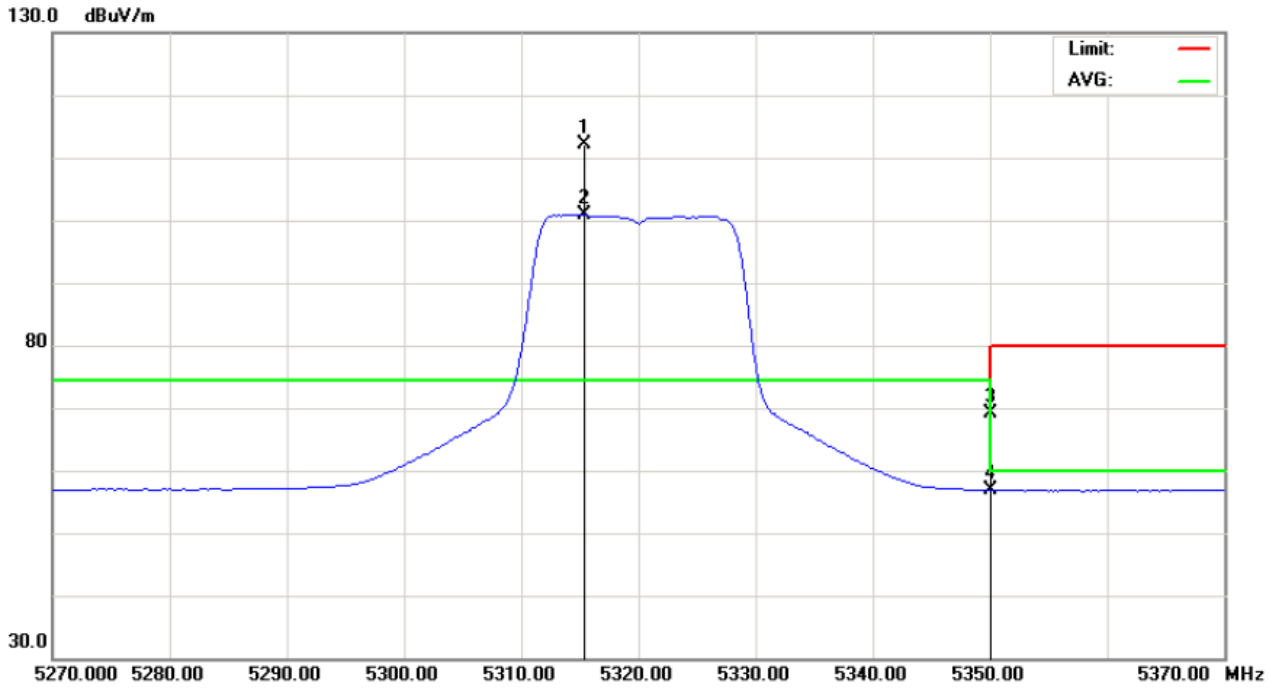
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11a (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a(Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH36/CH64 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH64). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	29.25	18.11	39.97	69.22	58.08	74.30	60.00	Y
5350.00	H	31.60	17.88	39.48	71.08	57.36	74.30	60.00	Y

Remark：

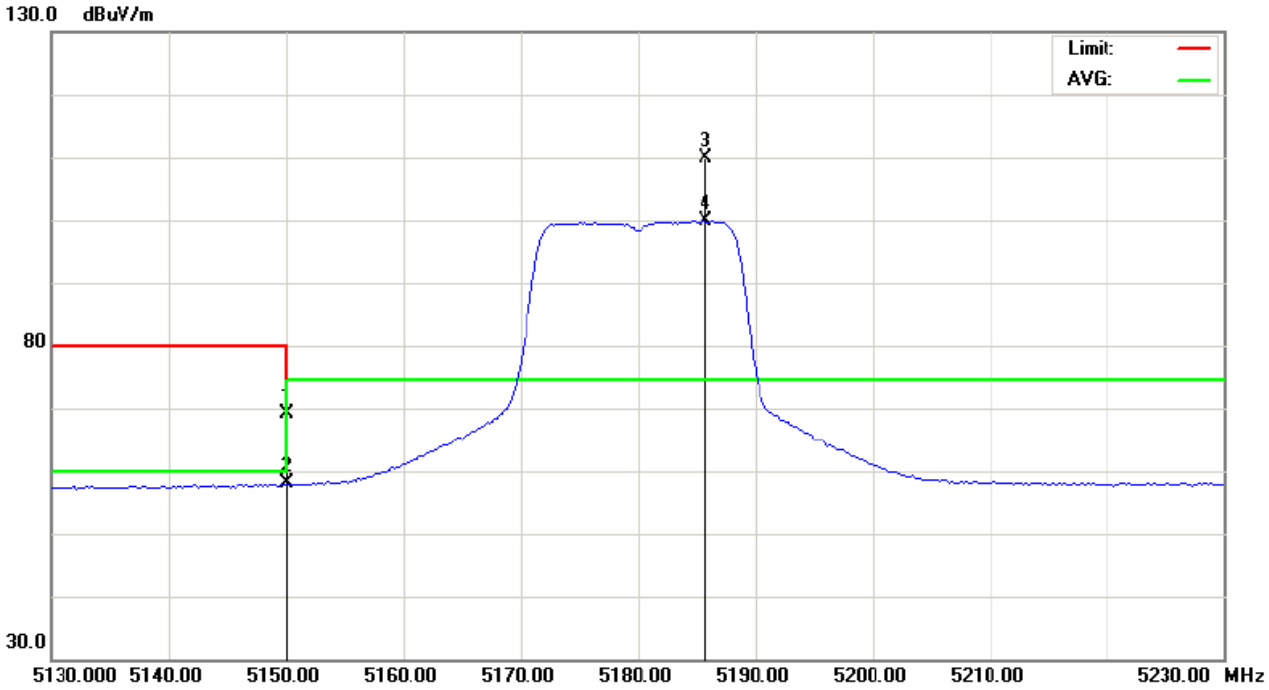
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

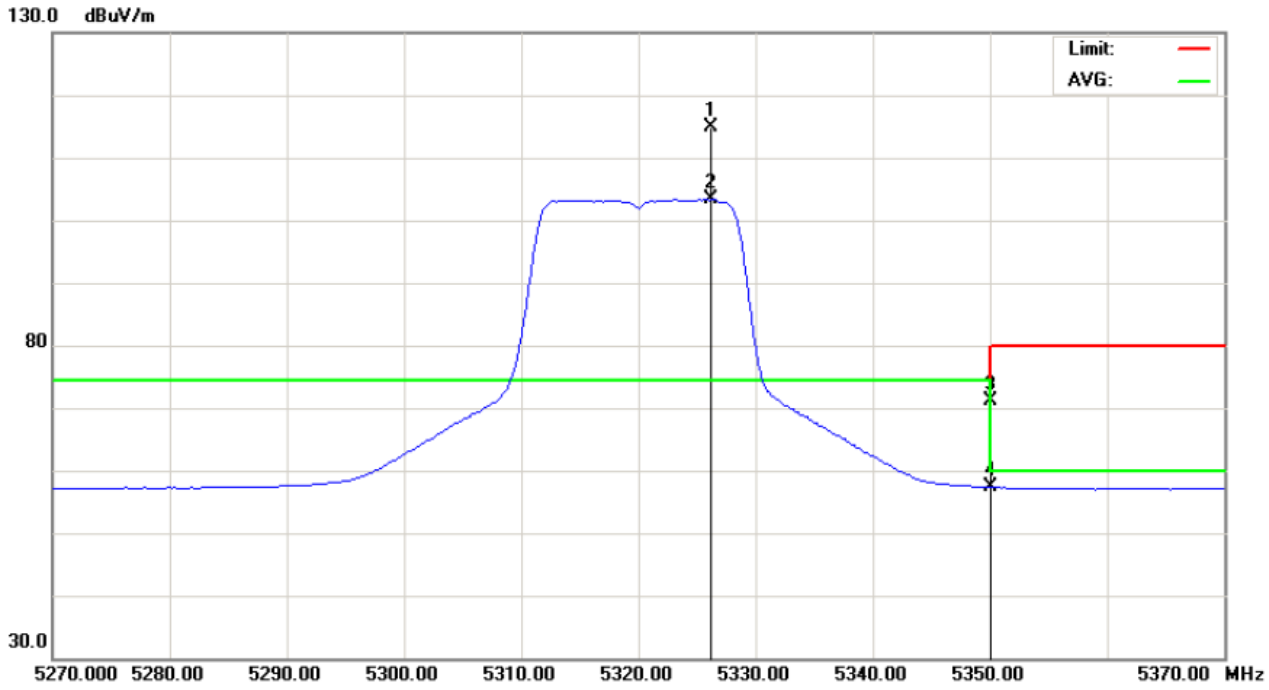
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11a (Restricted Bands Requirements, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH36/CH64 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH64). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.60	18.31	39.97	70.57	58.28	74.30	60.00	Y
5350.00	V	32.90	18.61	39.48	72.38	58.09	74.30	60.00	Y

Remark：

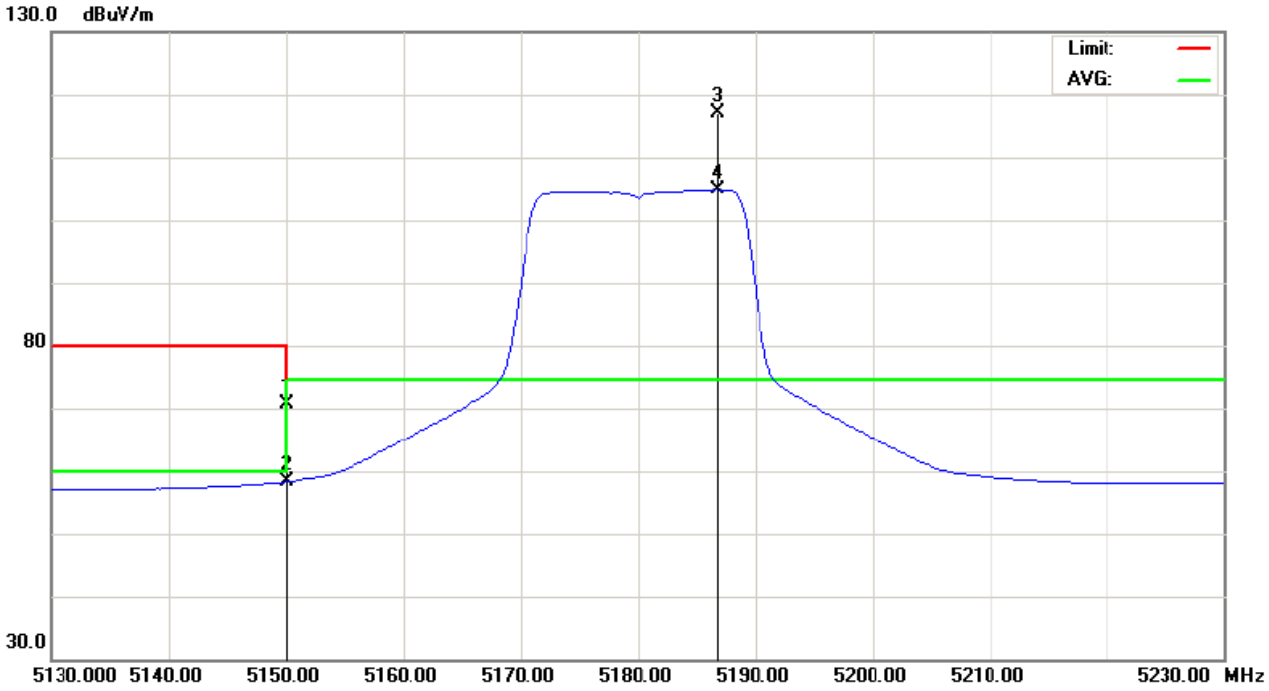
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

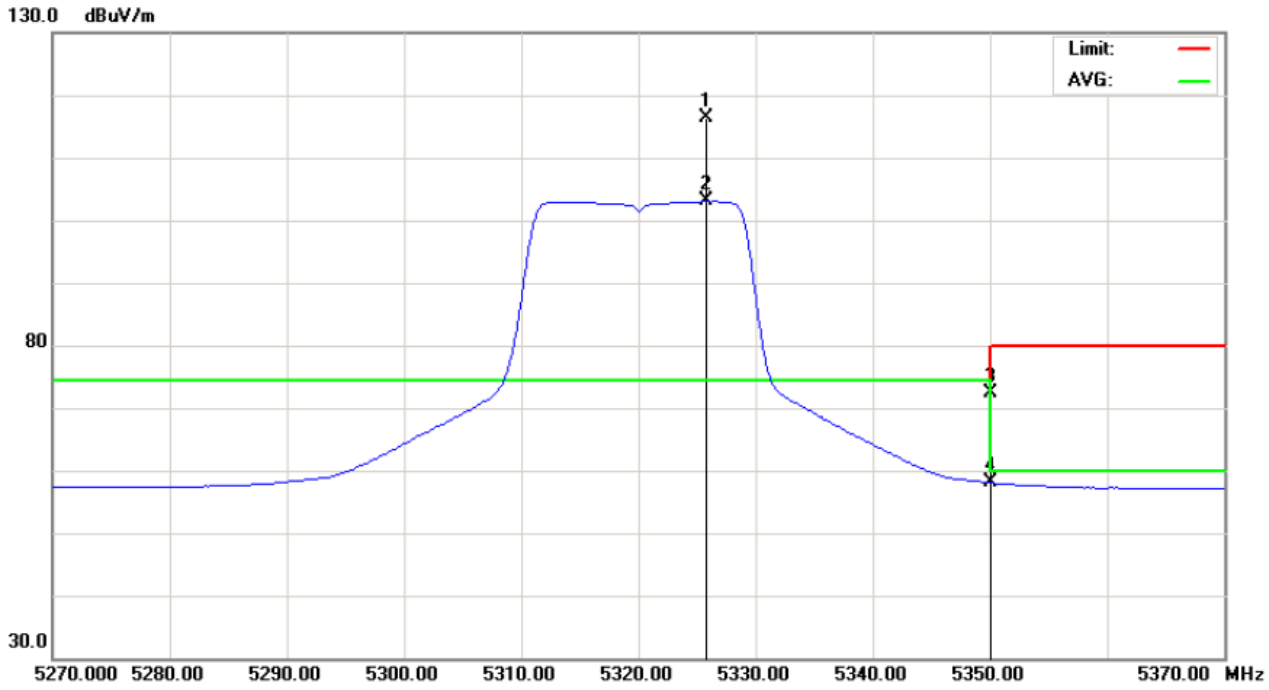
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH36/CH64 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH64). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	30.54	17.69	39.97	70.51	57.66	74.30	60.00	Y
5350.00	H	33.23	19.50	39.48	72.71	58.98	74.30	60.00	Y

Remark：

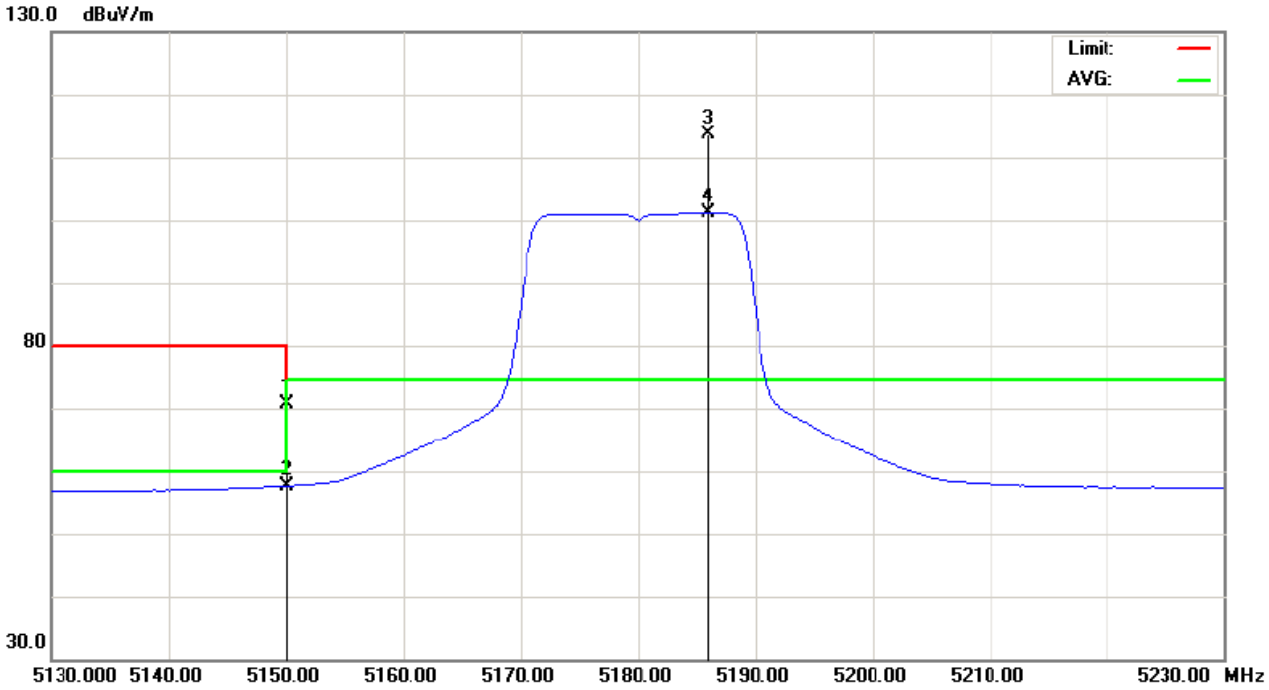
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

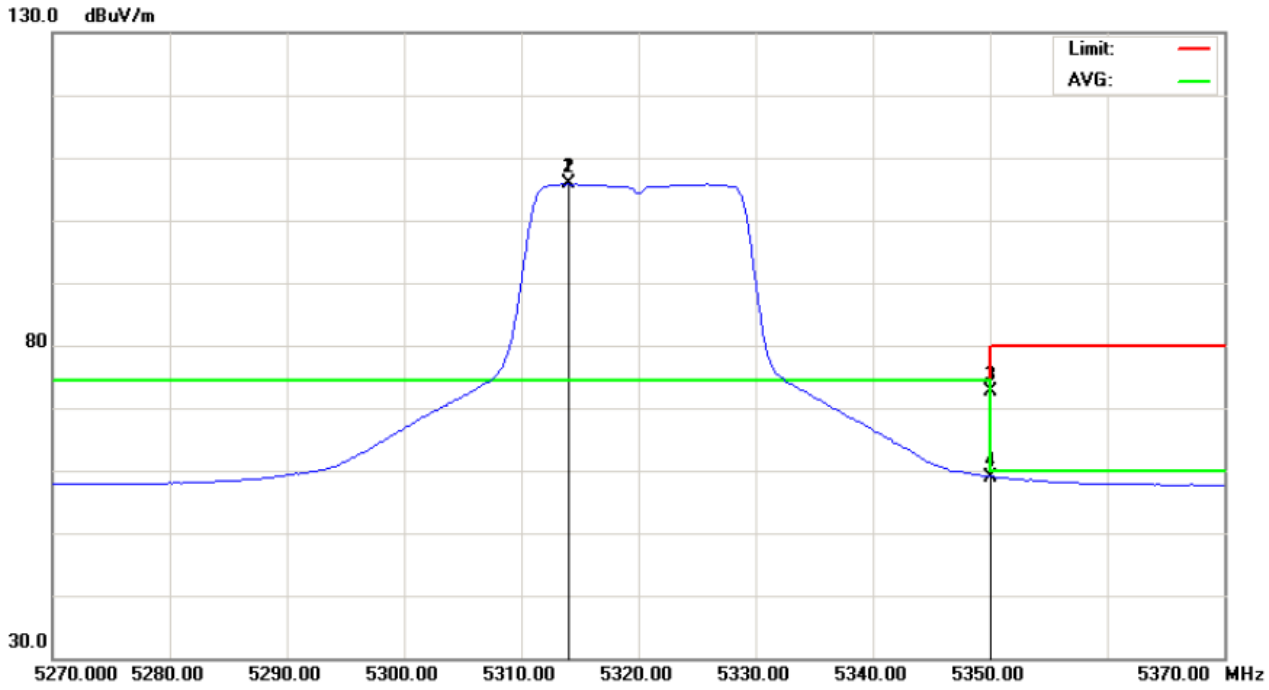
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH54/CH62 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH54). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH62). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	V	30.50	19.12	39.97	70.47	59.09	74.30	60.00	Y
5350.00	V	30.12	18.62	39.48	69.60	58.10	74.30	60.00	Y

Remark：

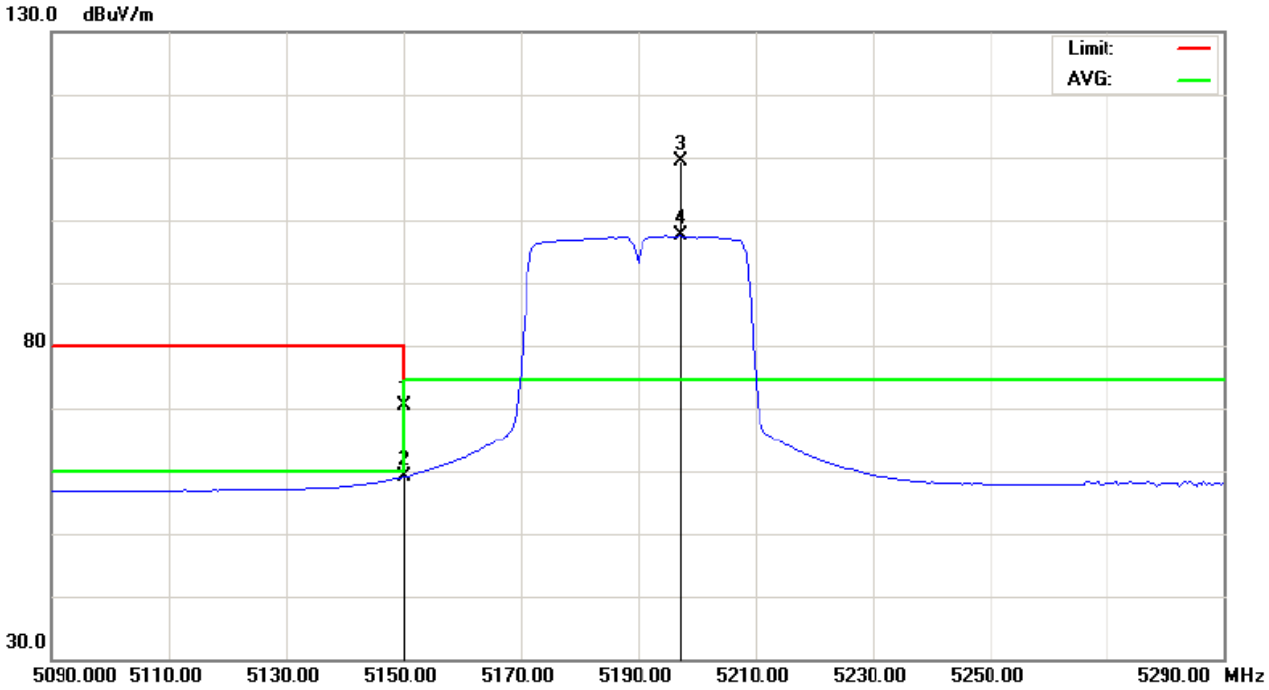
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

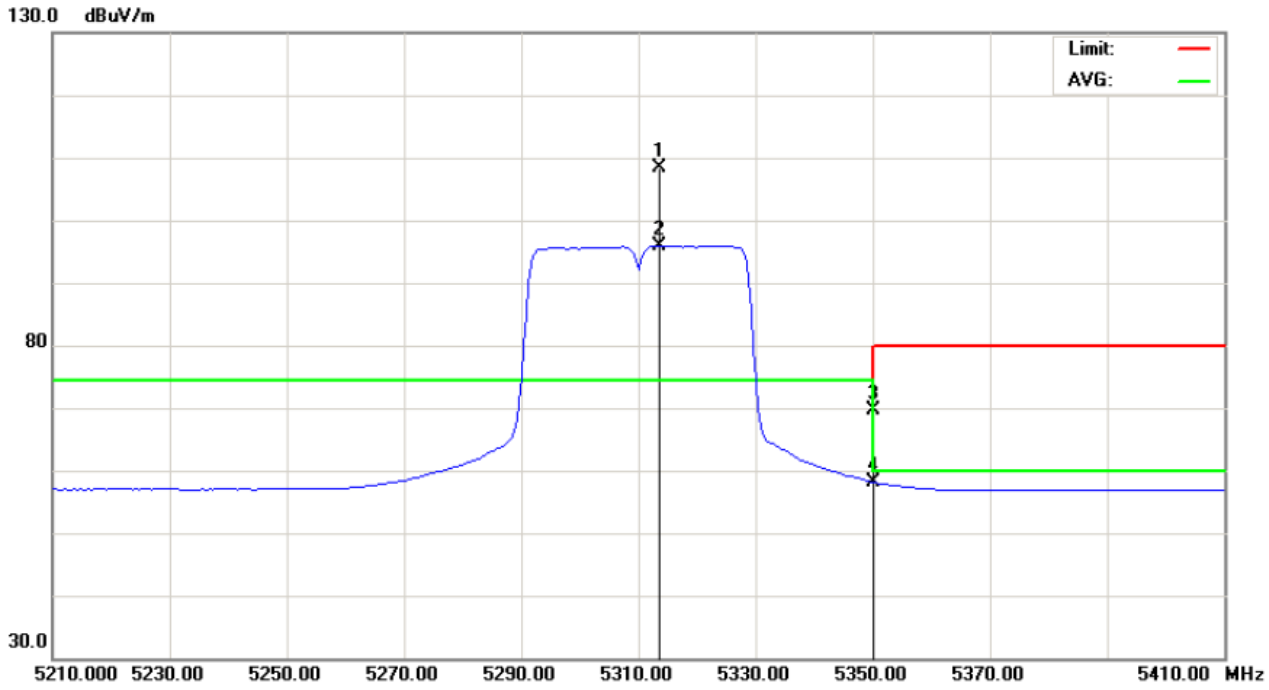
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	23°C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH36/CH62 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH62). Then the field strength was measured at 5350-5470 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5150.00	H	28.70	17.97	39.97	68.67	57.94	74.30	60.00	Y
5350.00	H	31.58	19.49	39.48	71.06	58.97	74.30	60.00	Y

Remark：

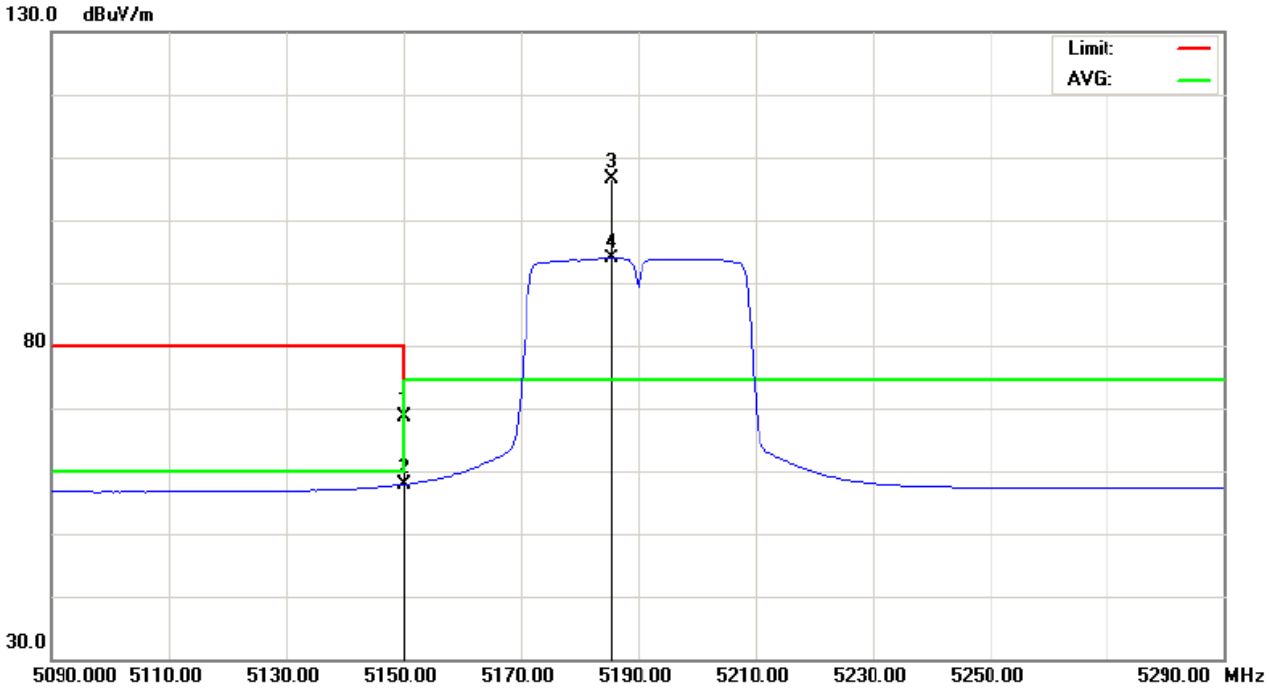
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

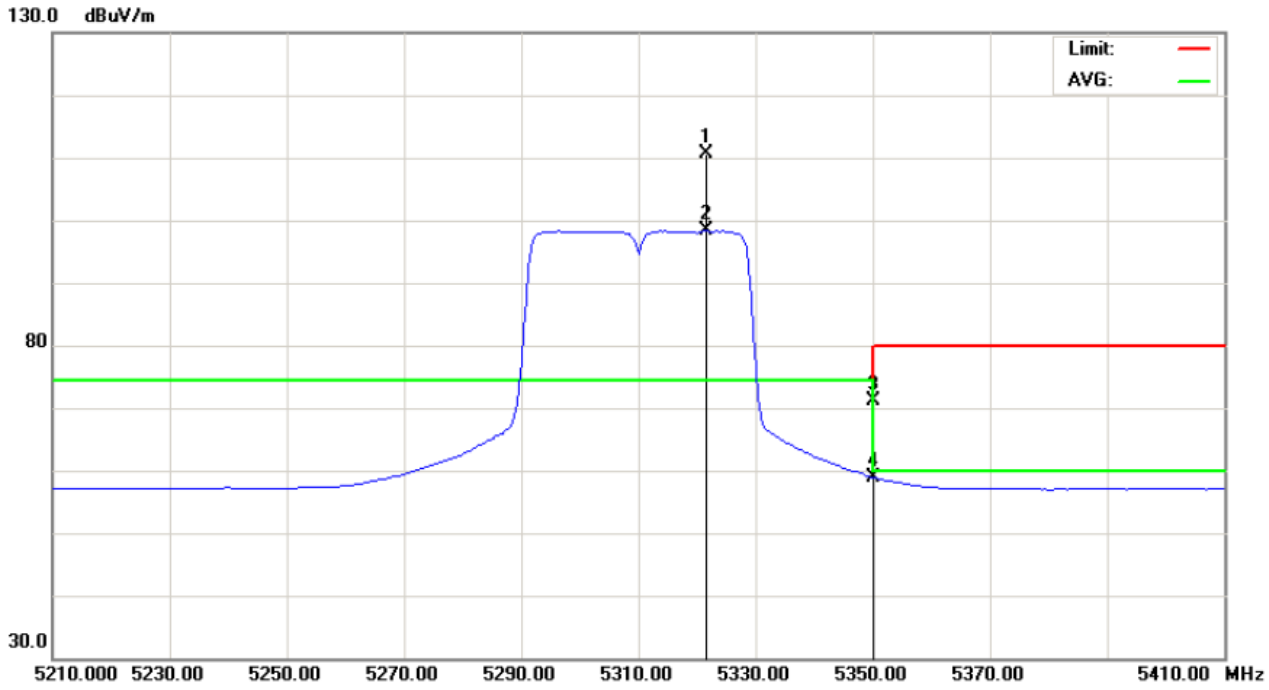
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity：	46 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a(Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH100/CH140 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH100). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH140). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	33.67	17.88	39.60	73.27	57.48	74.30	60.00	Y
5725.00	V	31.90	17.99	40.13	72.03	58.12	74.30	74.30	Y

Remark：

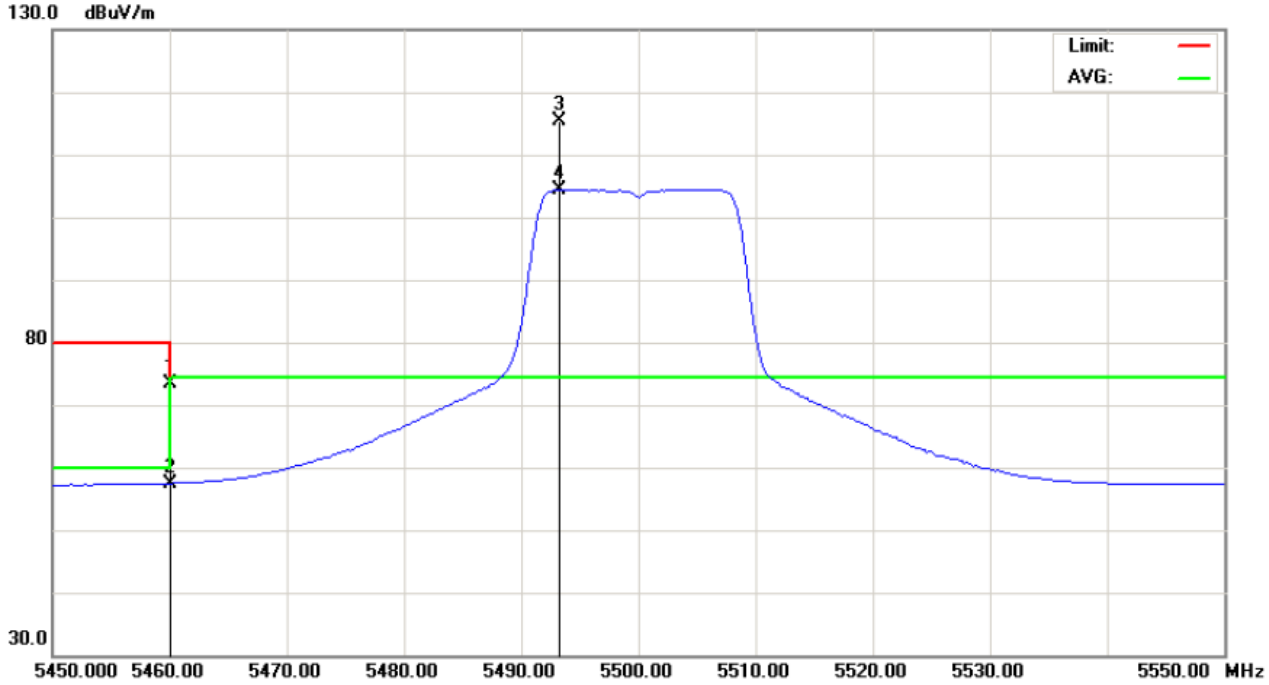
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

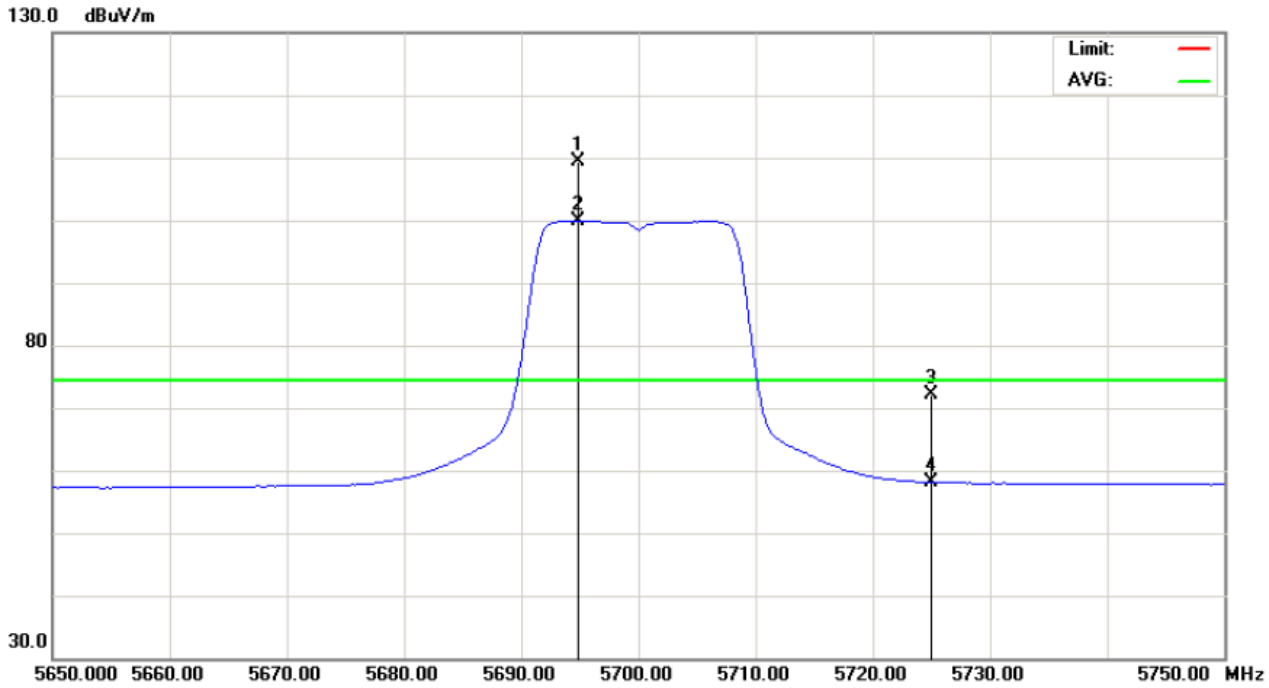
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11a (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11a(Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH100/CH140 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH100). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH140). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	32.88	18.60	39.60	72.48	58.20	74.30	60.00	Y
5725.00	H	31.40	18.36	40.13	71.53	58.49	74.30	74.30	Y

Remark：

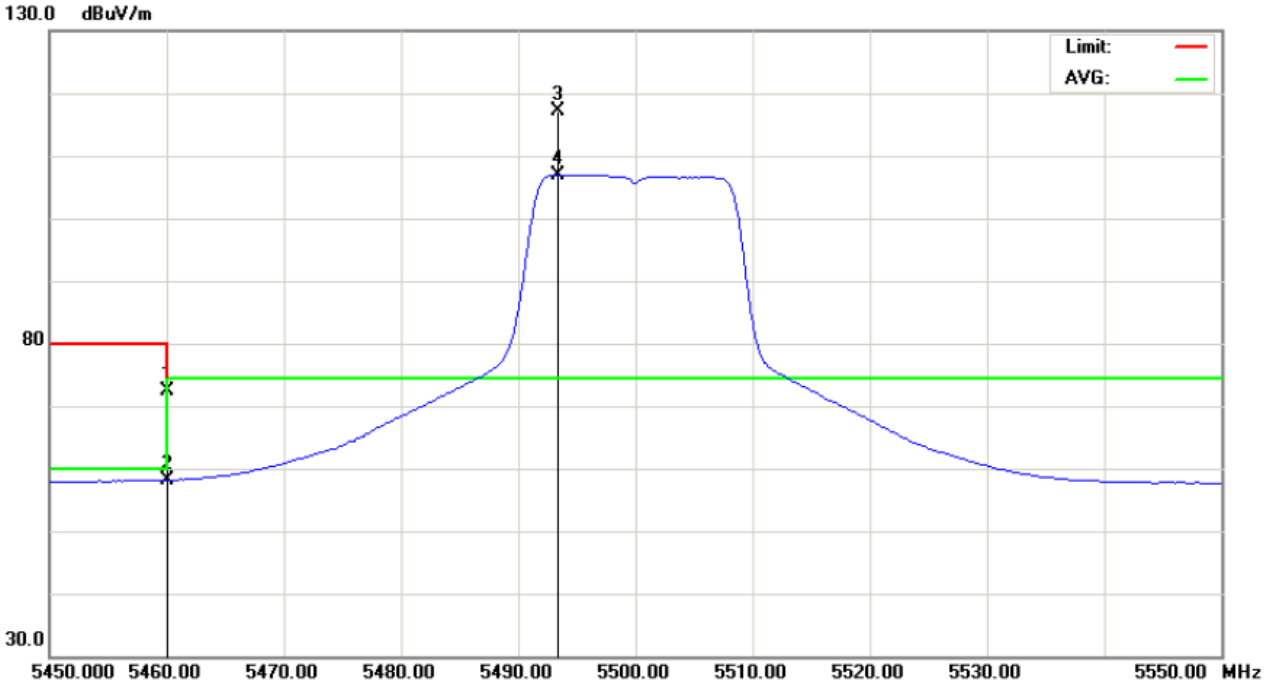
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

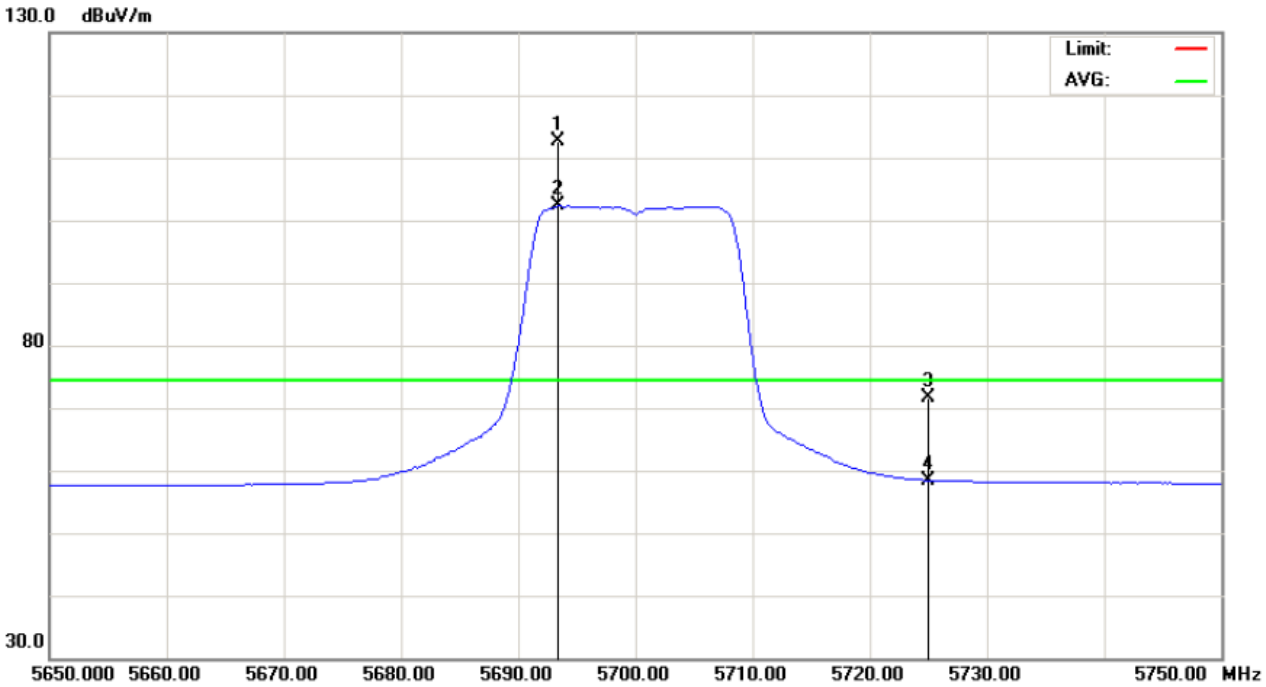
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11a (Restricted Bands Requirements, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH100/CH140 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH100). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH140). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	30.09	18.41	39.60	69.69	58.01	74.30	60.00	Y
5725.00	V	29.99	18.12	40.13	70.12	58.25	74.30	74.30	Y

Remark：

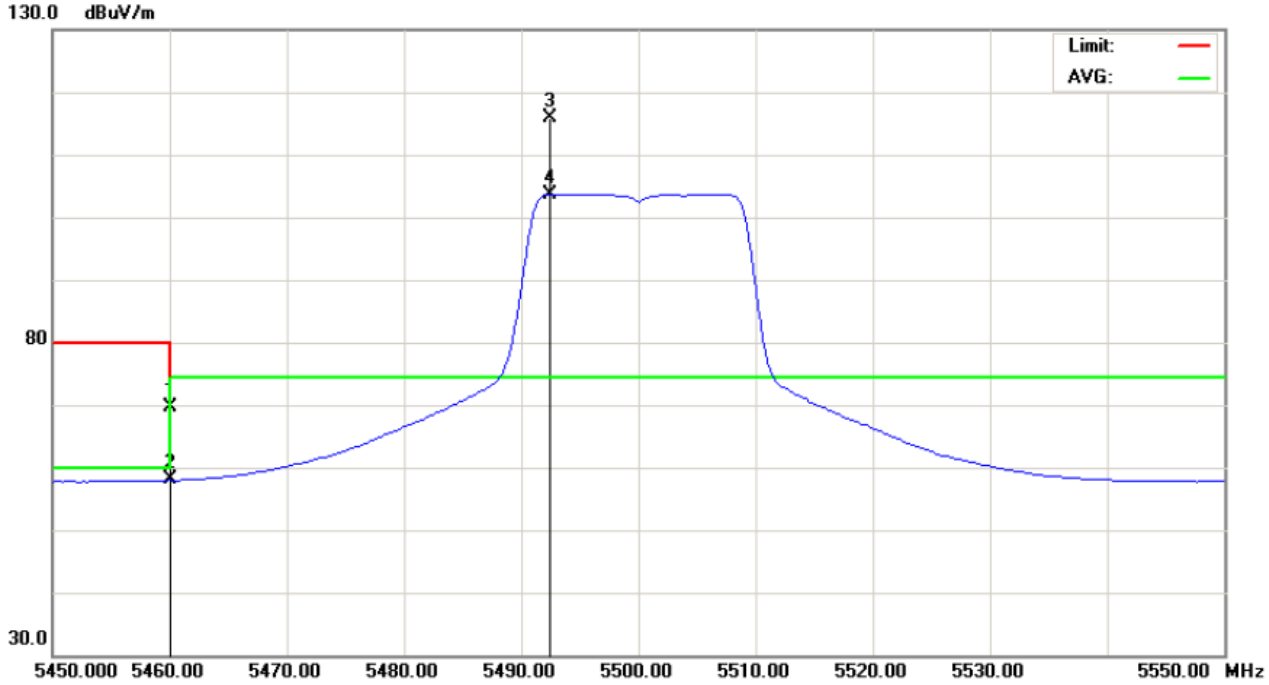
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

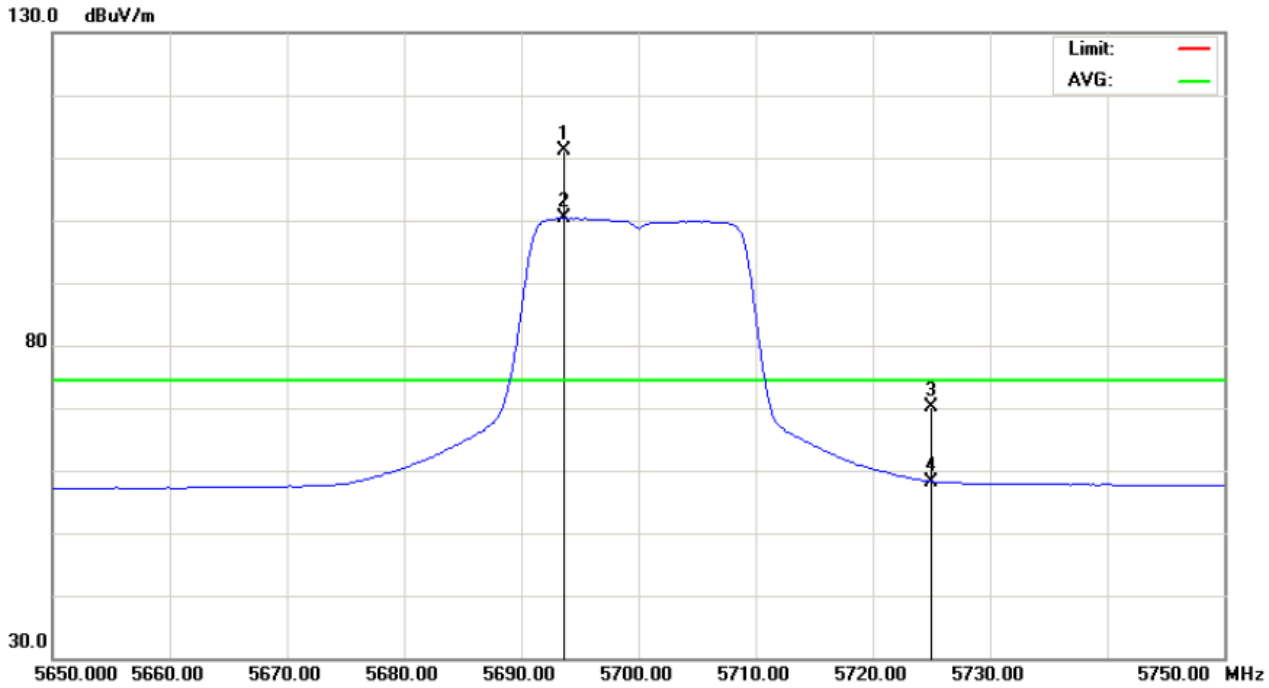
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH100/CH140 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH100). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH140). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	31.31	18.85	39.60	70.91	58.45	74.30	60.00	Y
5725.00	H	33.16	18.38	40.13	73.29	58.51	74.30	74.30	Y

Remark：

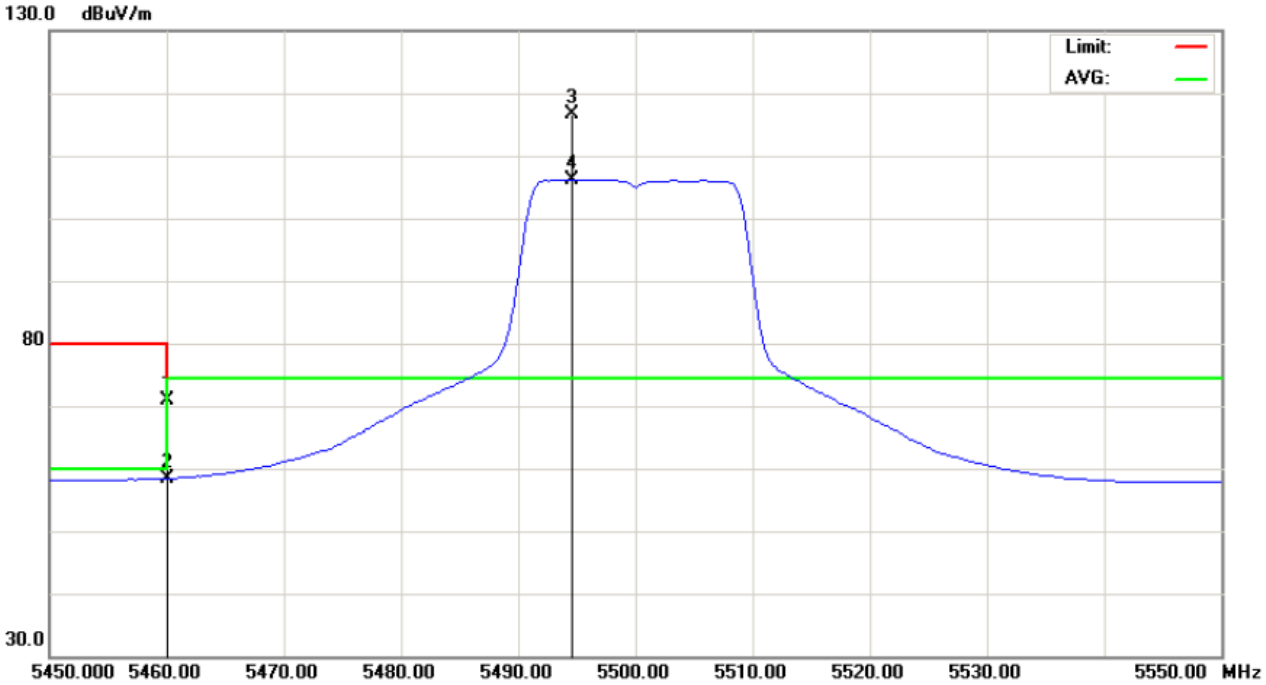
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

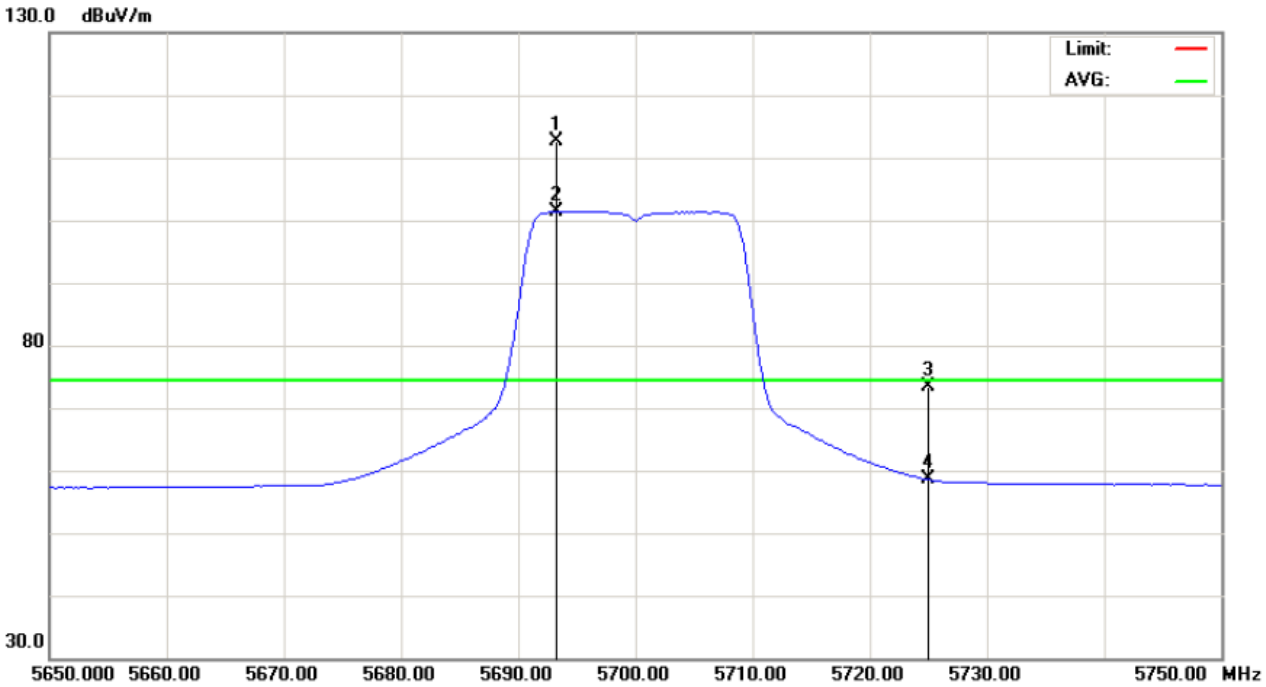
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH102/CH134 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH102). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH134). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	V	28.99	17.45	39.60	68.59	57.05	74.30	60.00	Y
5725.00	V	9.78	18.24	40.13	49.91	58.37	74.30	74.30	Y

Remark：

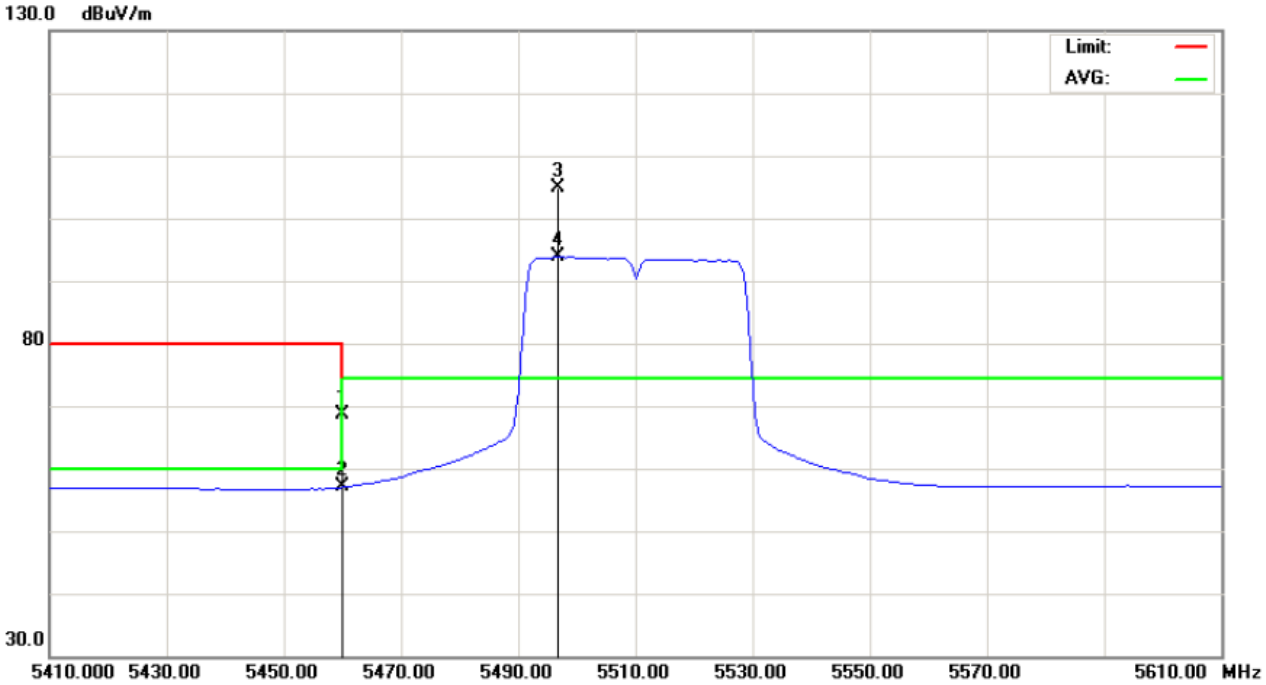
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

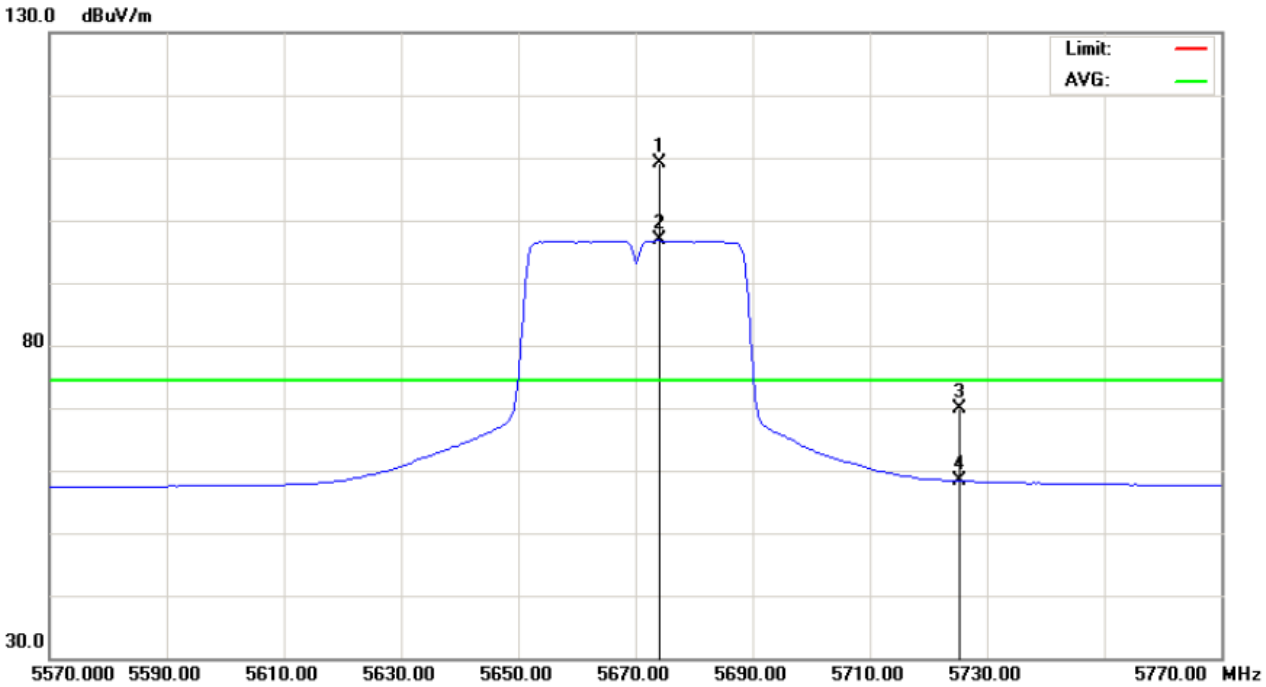
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	26°C	Relative Humidity :	46 %
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH102/CH134 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH102). Then the field strength was measured at 5350-5470 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH134). Then the field strength was measured at 5725- 5750 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5460.00	H	32.71	19.21	39.60	72.31	58.81	74.30	60.00	Y
5725.00	H	33.16	20.30	40.13	73.29	60.43	74.30	74.30	Y

Remark：

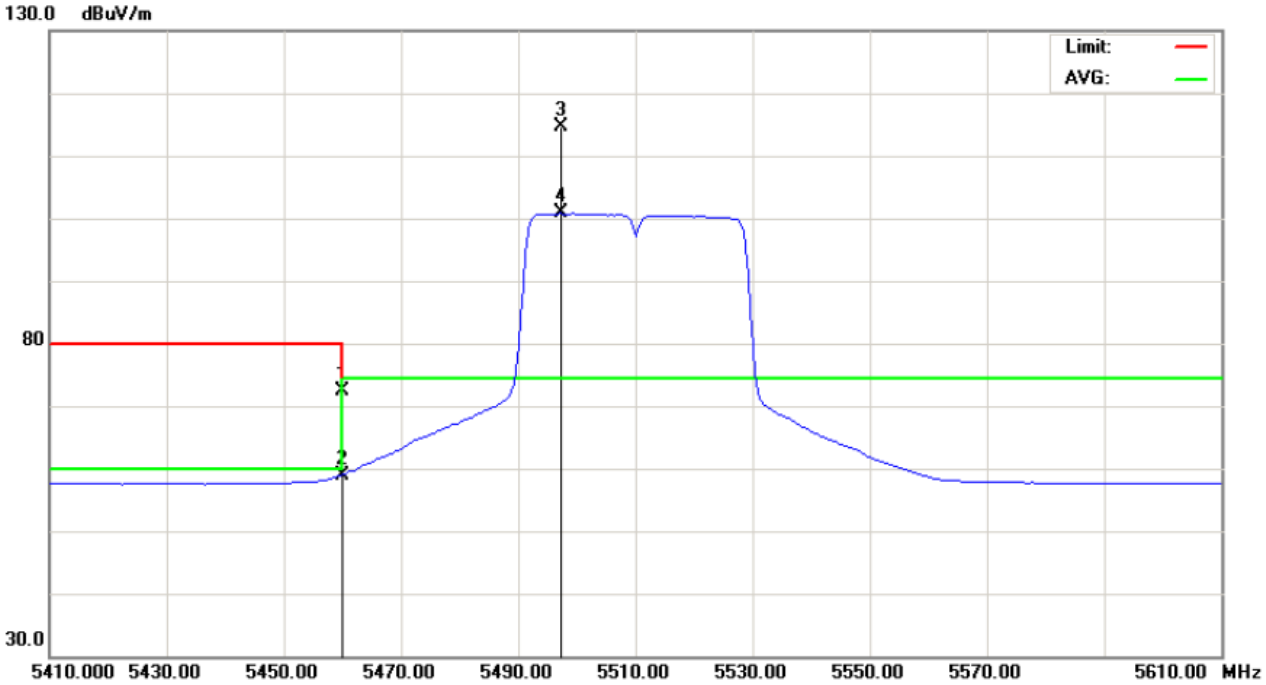
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

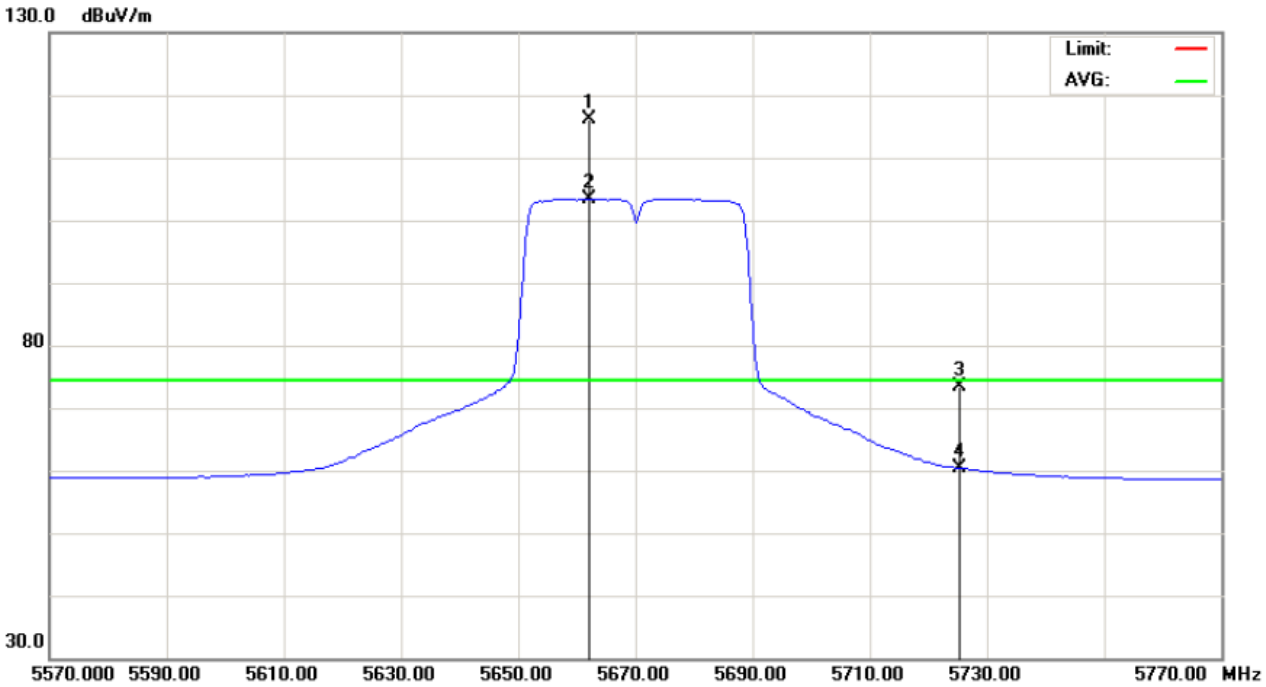
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





5. 26dB Spectrum Bandwidth

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
26 dB Bandwidth	------	5150 - 5250 5250 - 5350 5470 - 5725 5725 - 5825	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 09, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

5.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

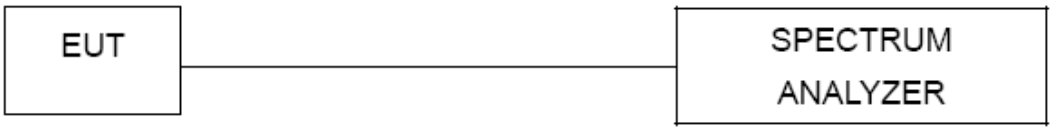
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RB	300 kHz
VB	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26dB below carrier

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

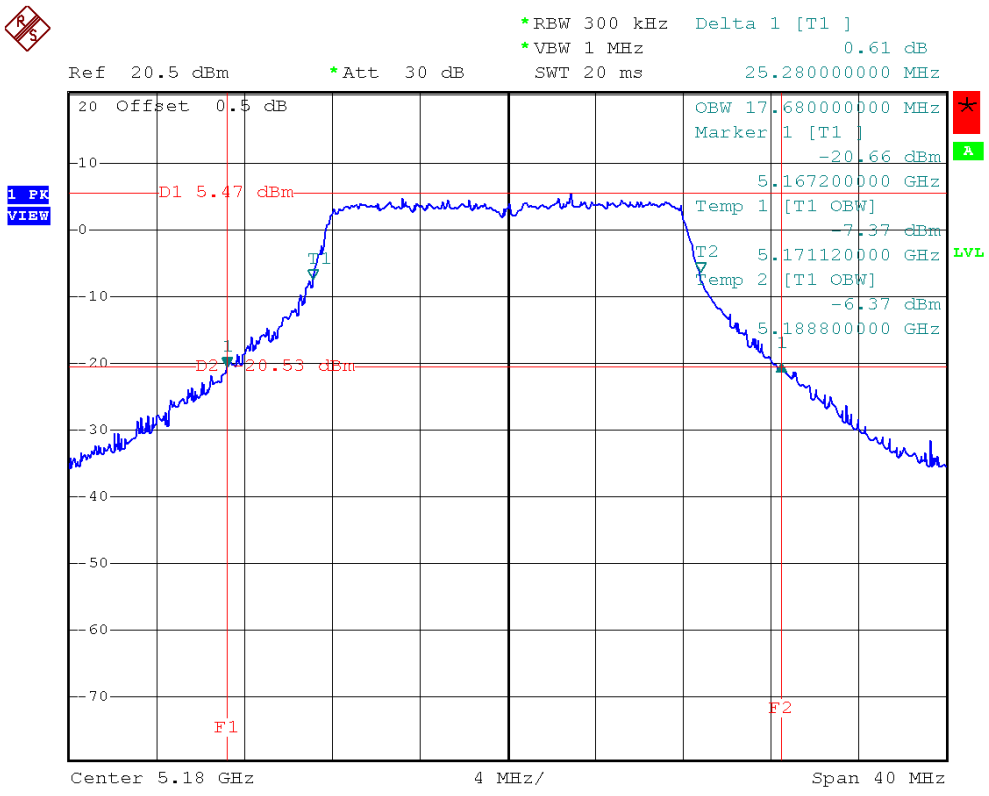
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS - BAND 1

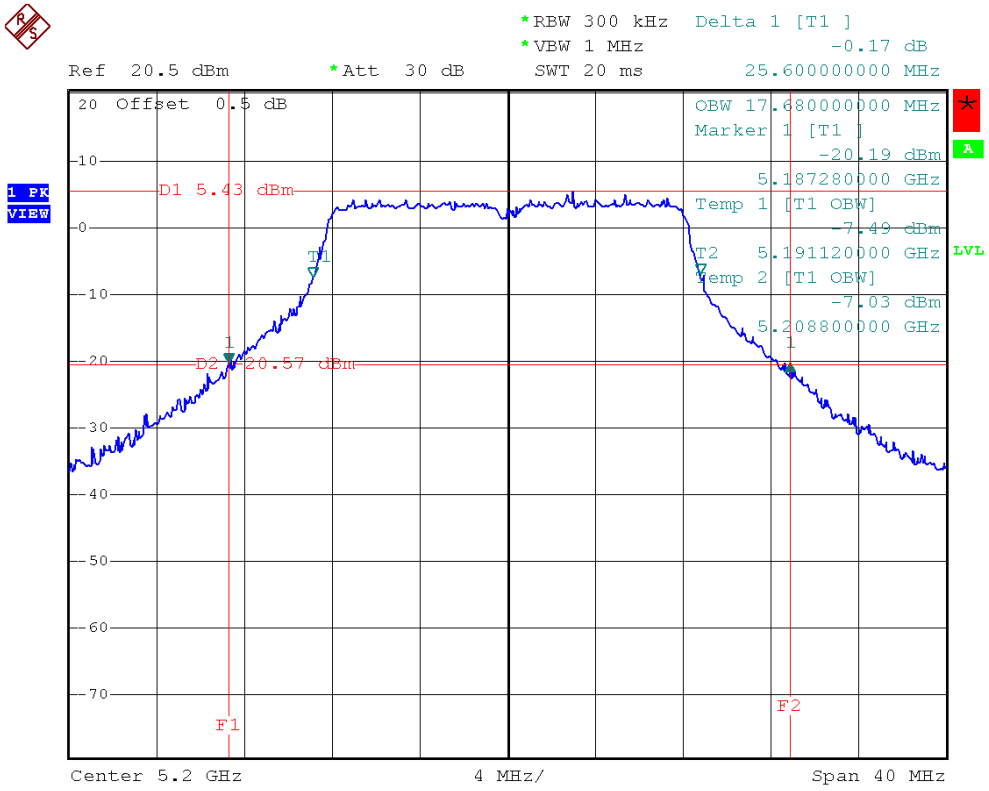
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH36, CH40, CH48 (Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180	25.28	17.68
40	5200	25.60	17.68
48	5240	25.84	17.68

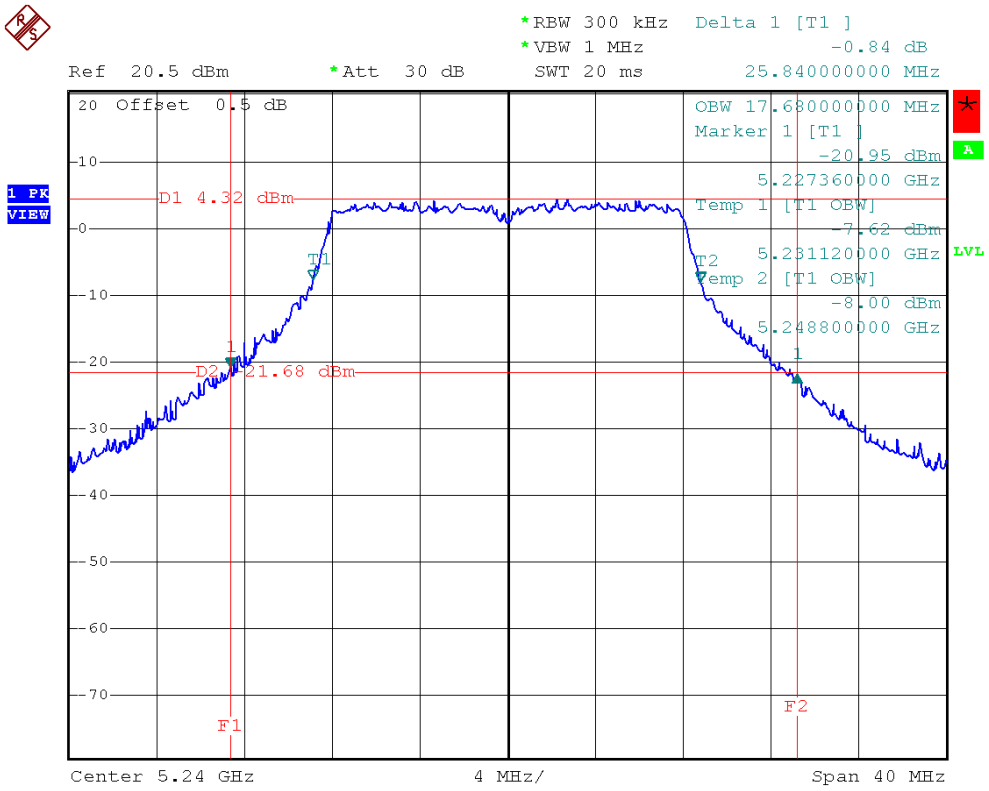
CH36(Port. 0)



CH40(Port. 0)



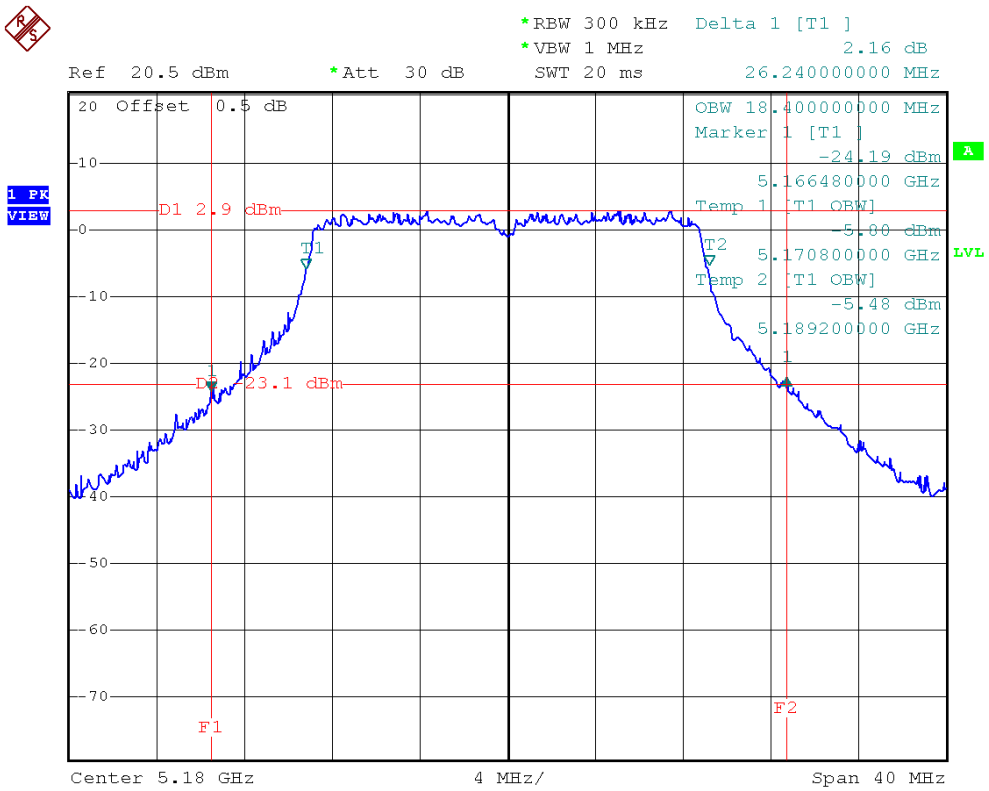
CH48(Port. 0)



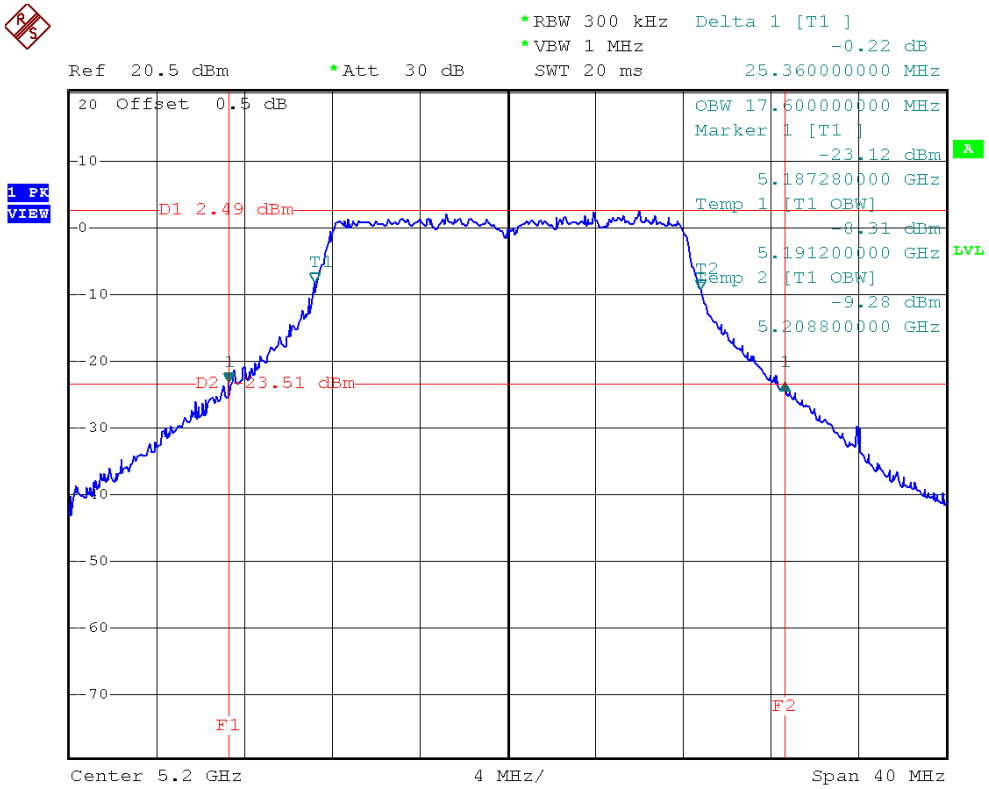
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36, CH40, CH48(Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180	26.24	18.40
40	5200	25.36	17.60
48	5240	25.28	17.68

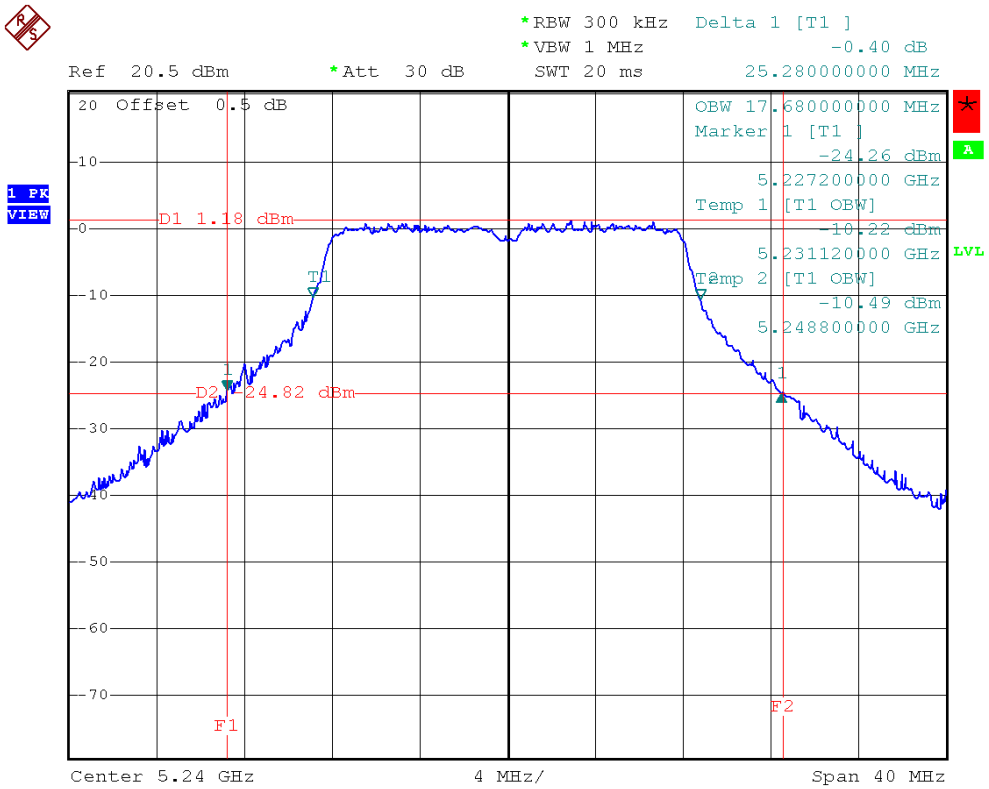
CH36(Port. 0)



CH40(Port. 0)



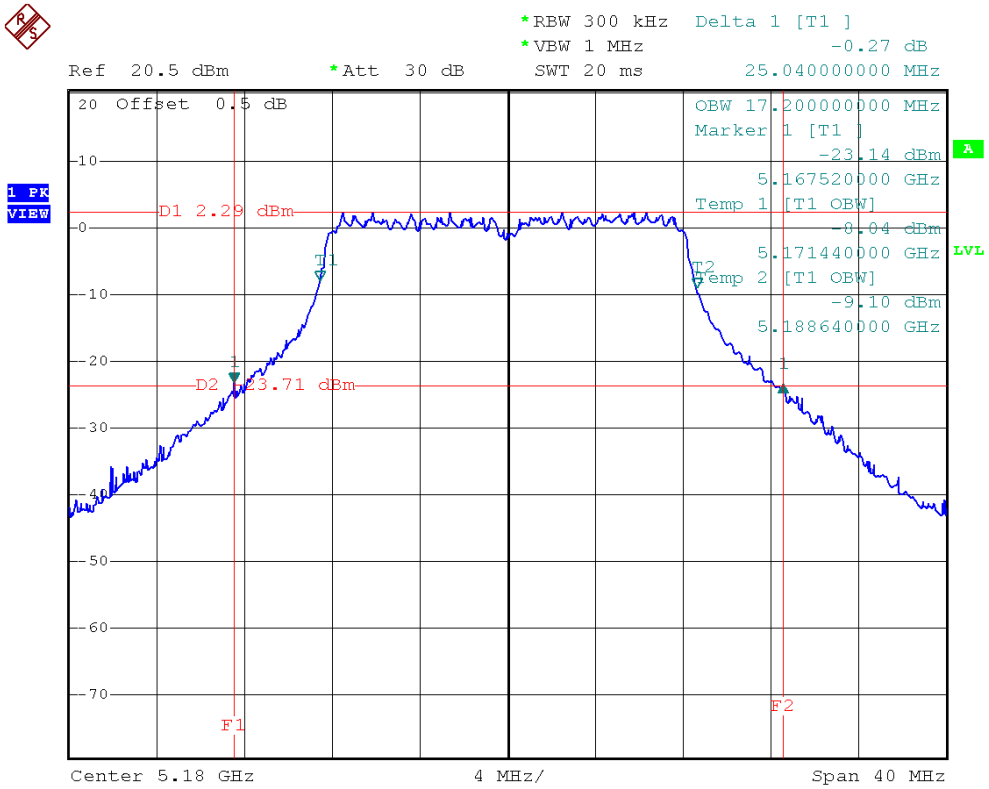
CH48(Port. 0)



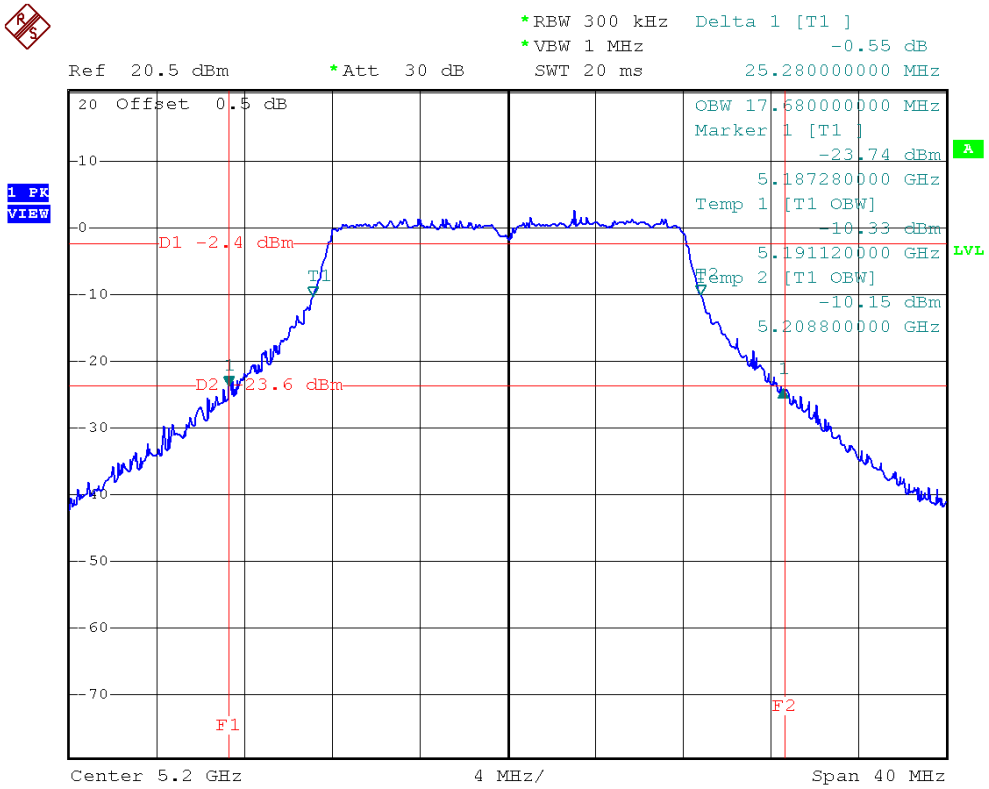
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13˚C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36, CH40, CH48(Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180	25.04	17.20
40	5200	25.28	17.68
48	5240	24.48	17.20

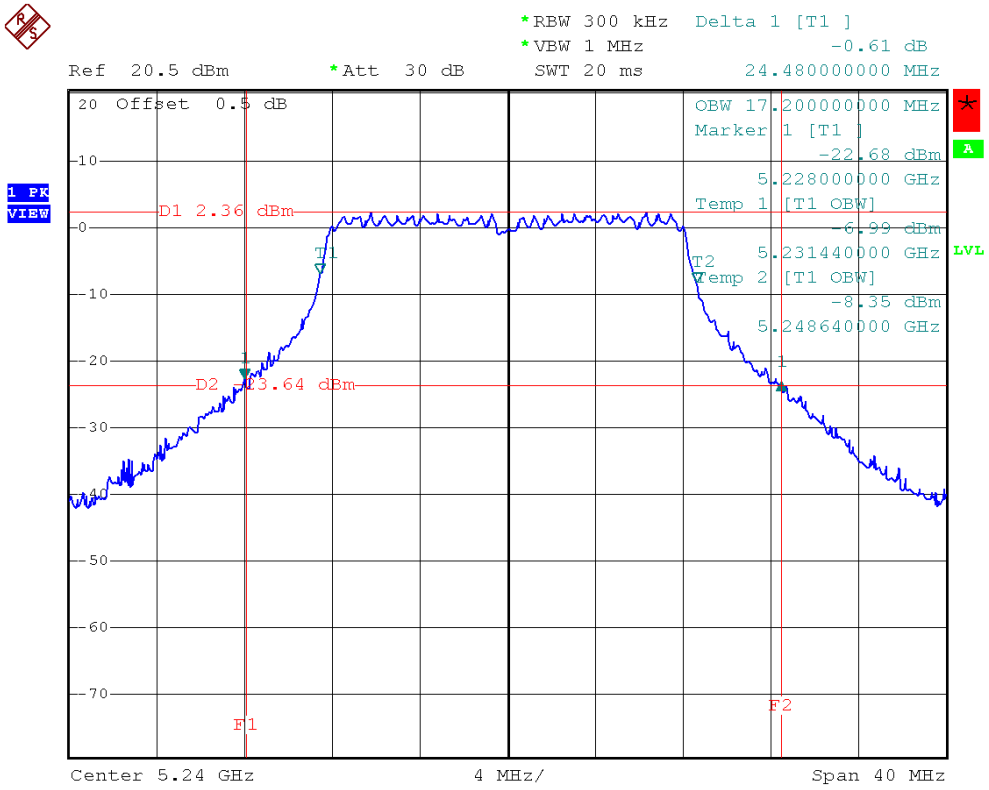
CH36(Port. 1)



CH40(Port. 1)



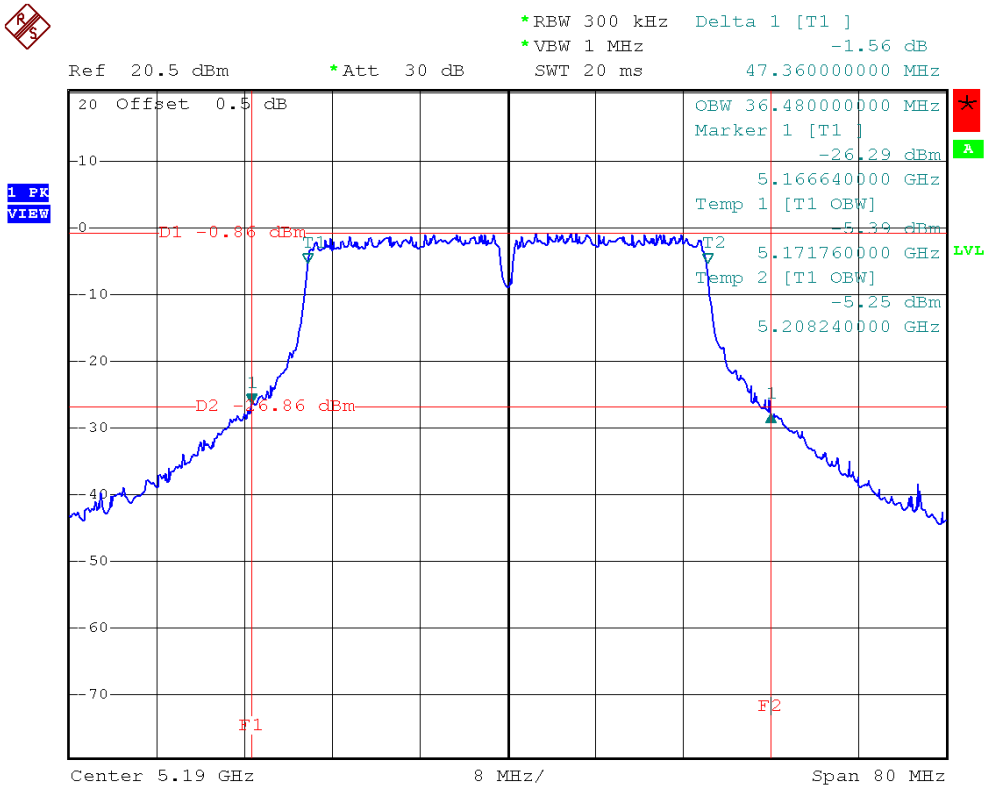
CH48(Port. 1)



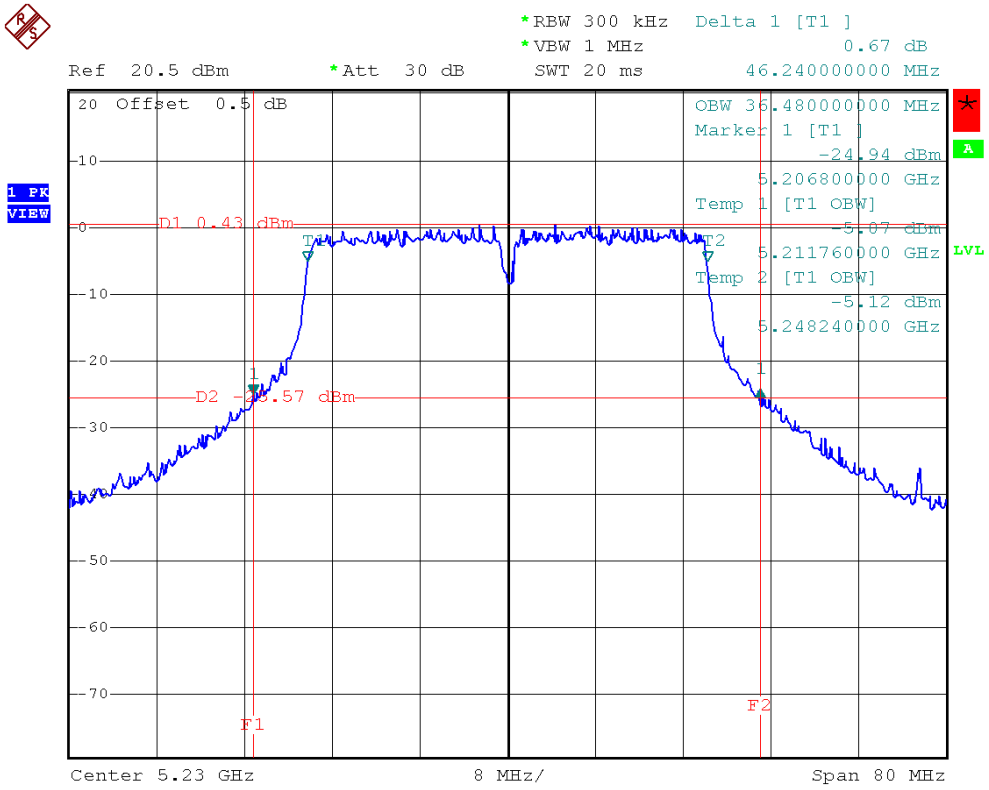
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38, CH46(Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
38	5190	47.36	36.48
46	5230	46.24	36.48

CH38(Port. 0)



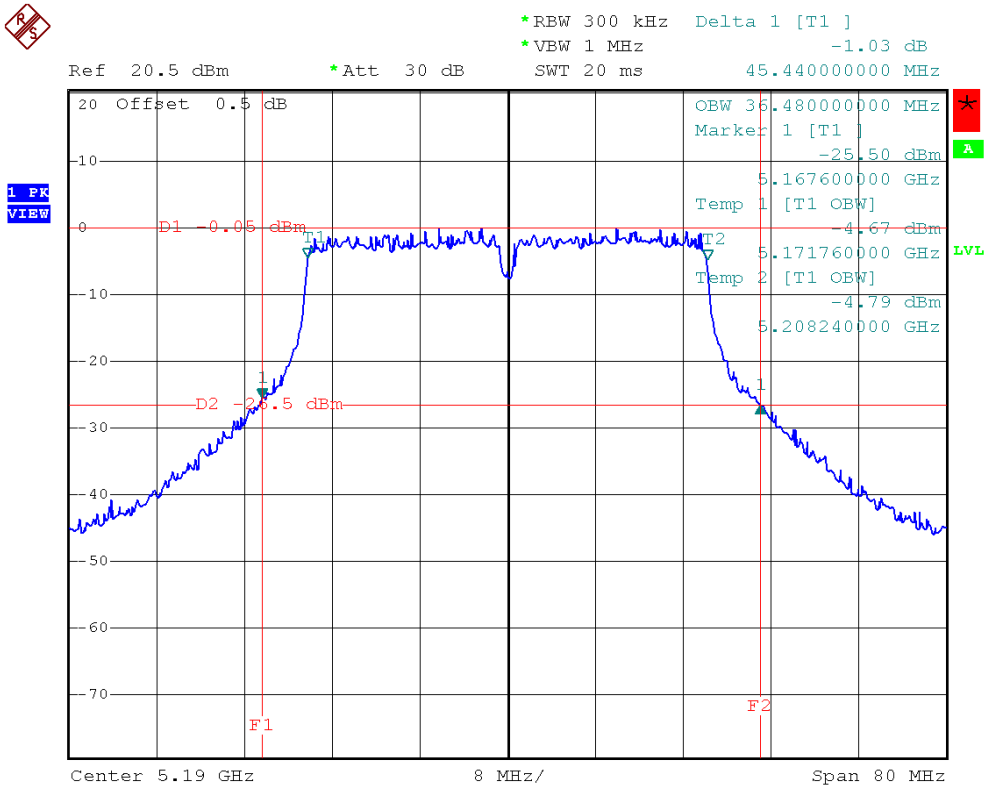
CH46(Port. 0)



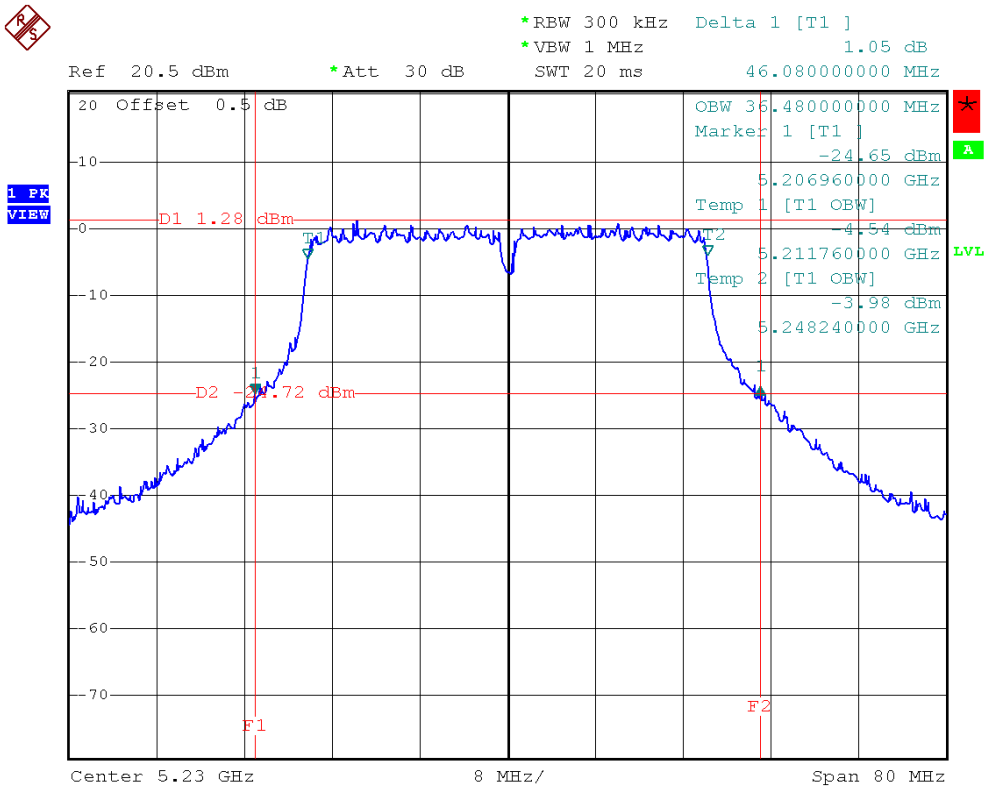
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38, CH46(Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
38	5190	45.44	36.48
46	5230	46.08	36.48

CH38(Port. 1)



CH46(Port. 1)

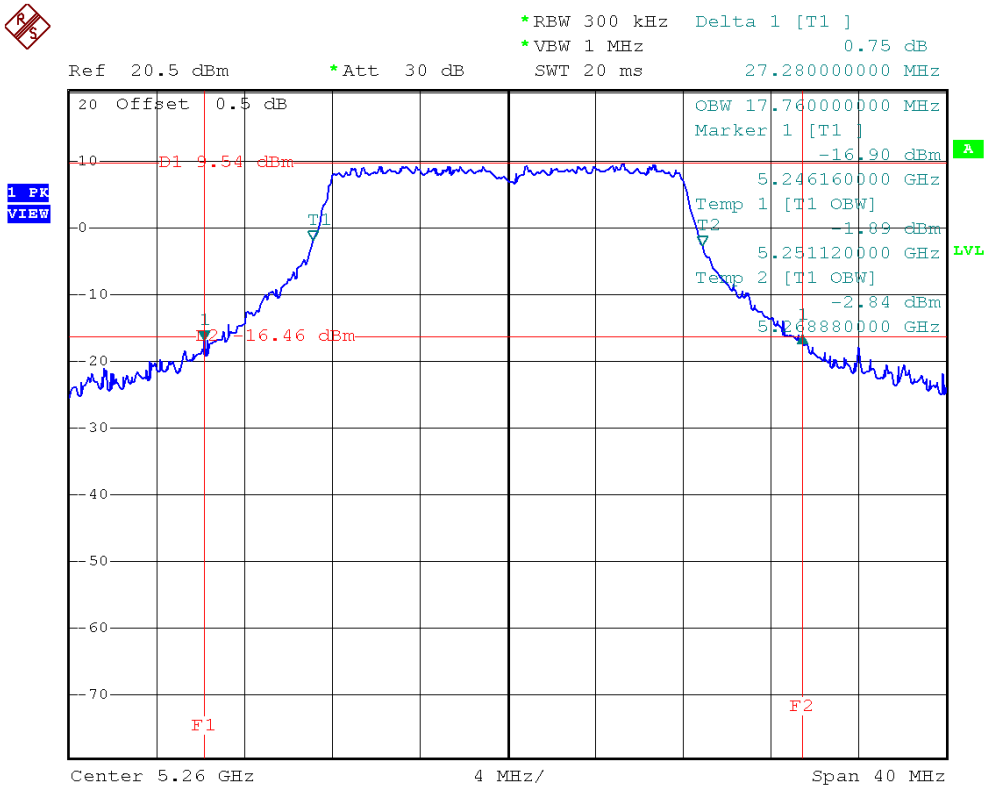


5.1.7 TEST RESULTS - BAND 2

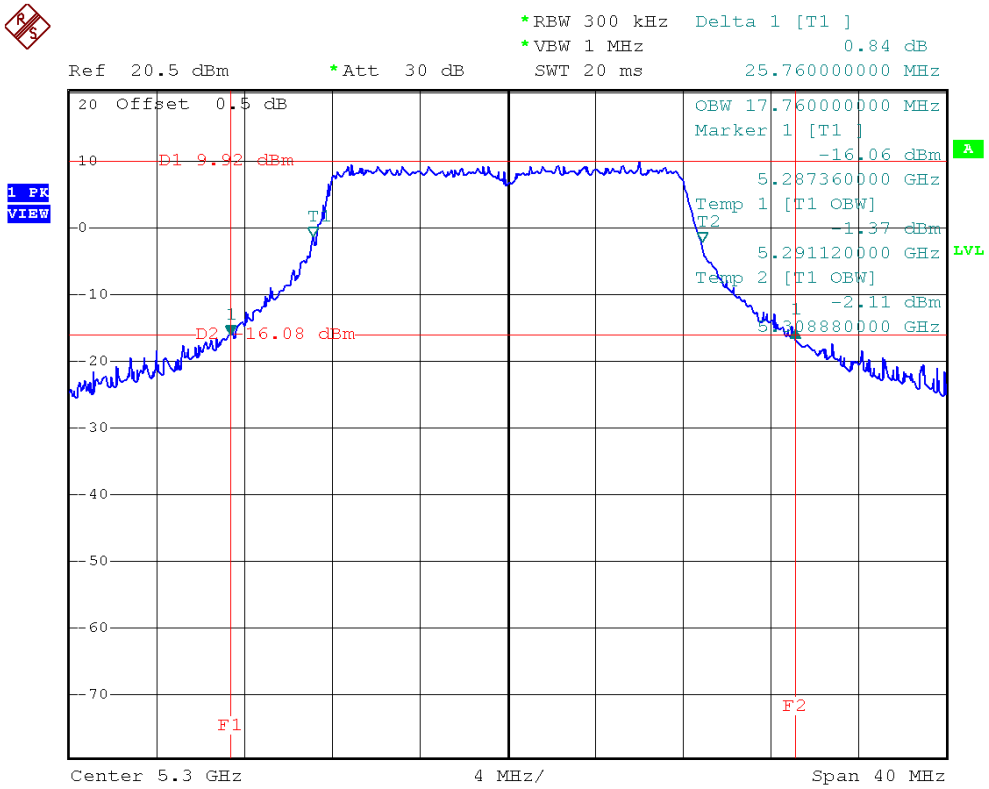
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH52, CH60, CH64 (Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	27.28	17.76
60	5300	25.76	17.76
64	5320	26.56	17.68

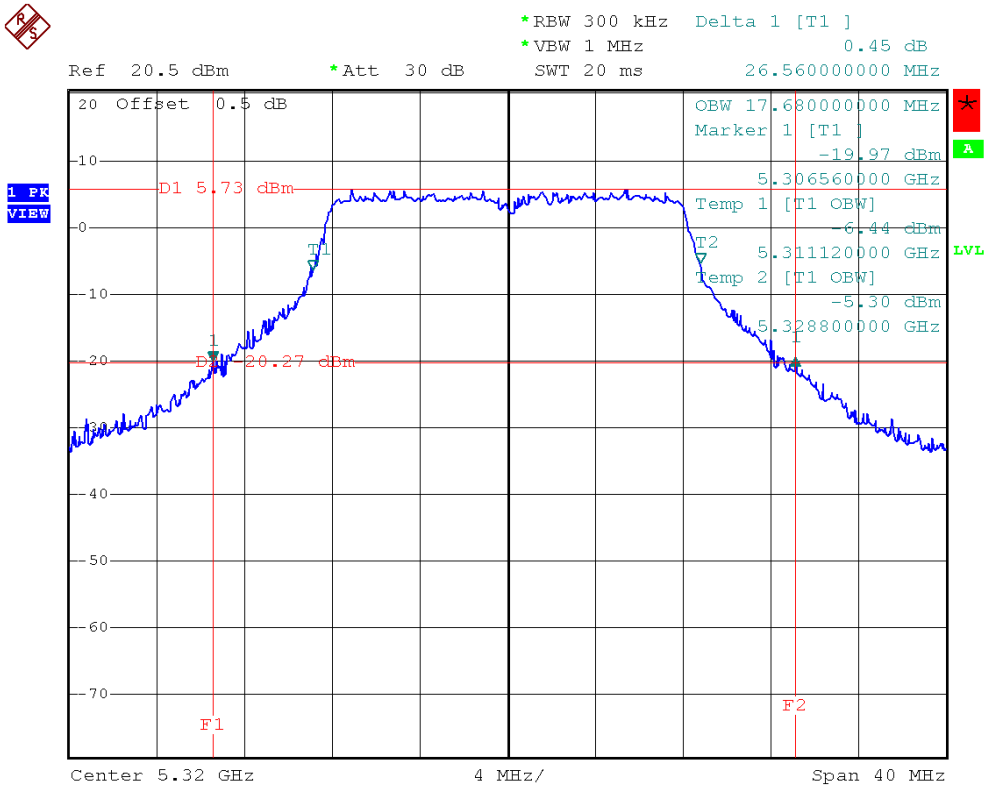
CH52(Port. 0)



CH60(Port. 0)



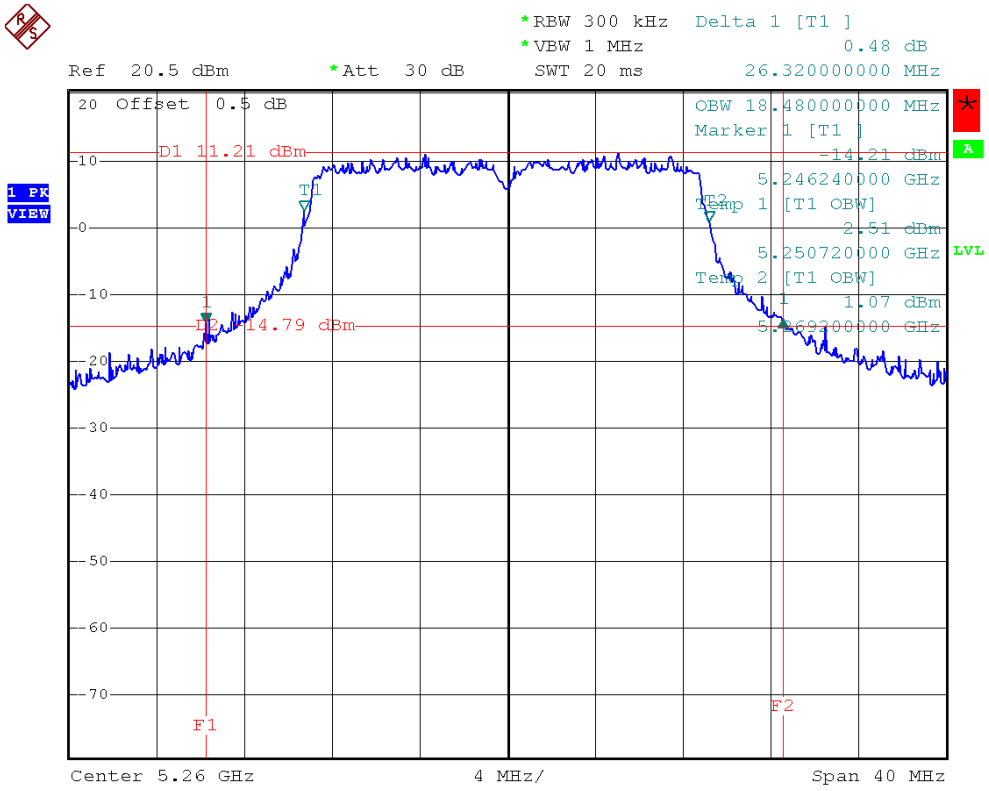
CH64(Port. 0)



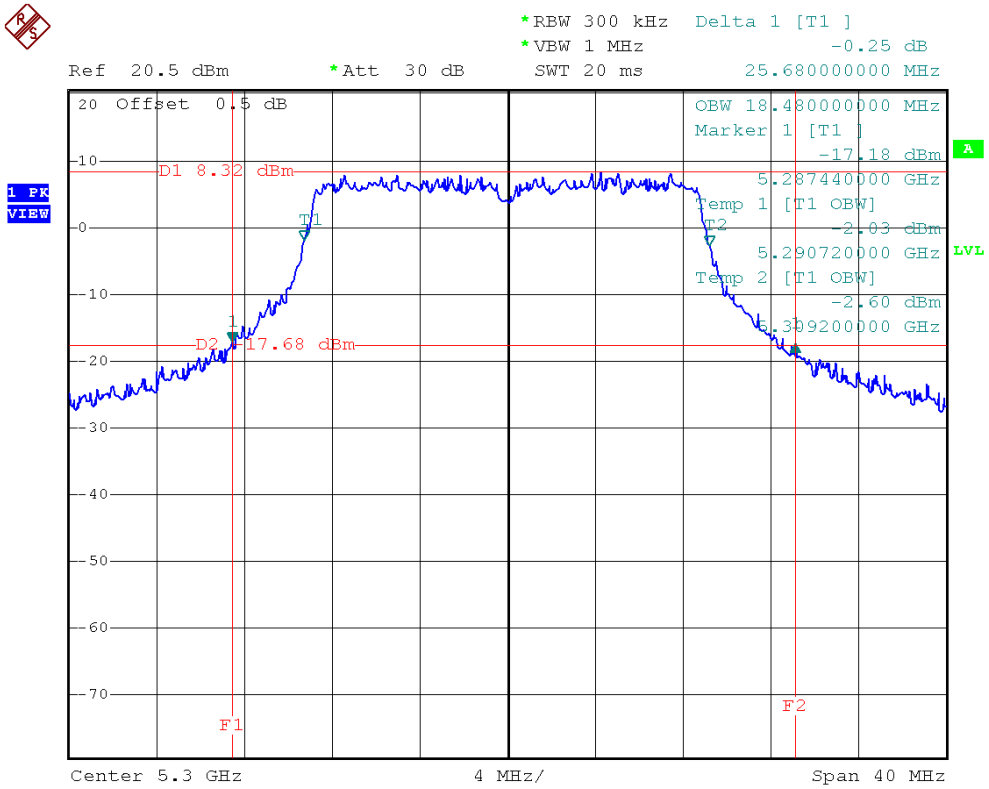
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13˚C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH52, CH60, CH64(Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	26.32	18.48
60	5300	25.68	18.48
64	5320	26.32	17.76

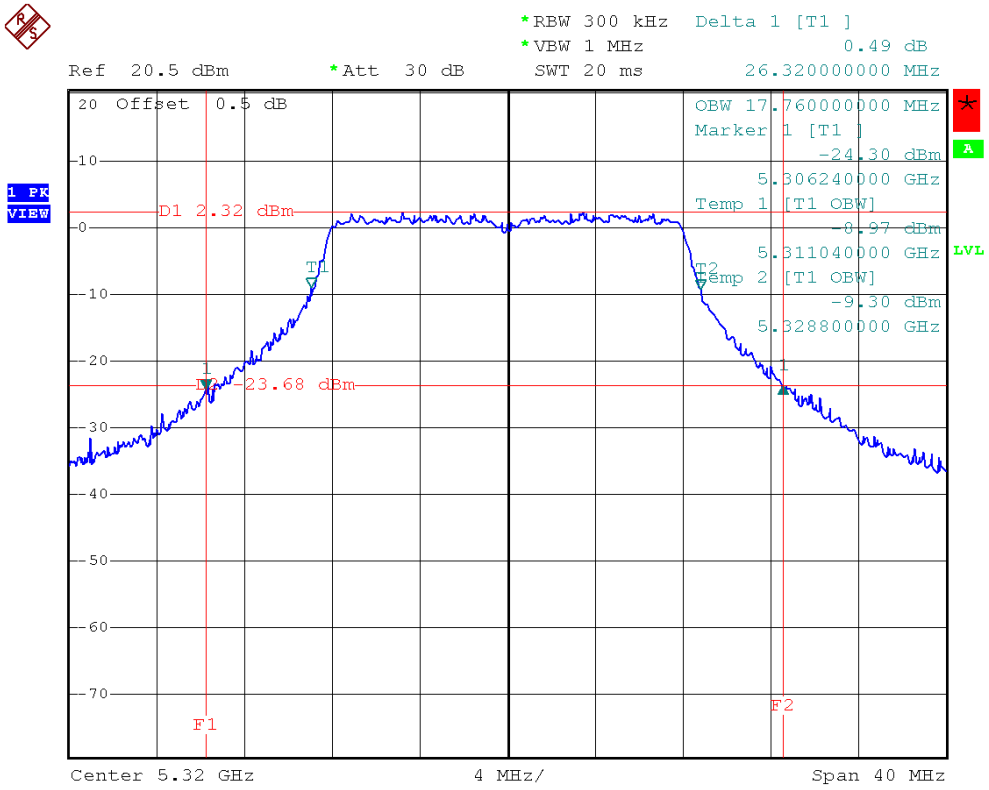
CH52(Port. 0)



CH60(Port. 0)



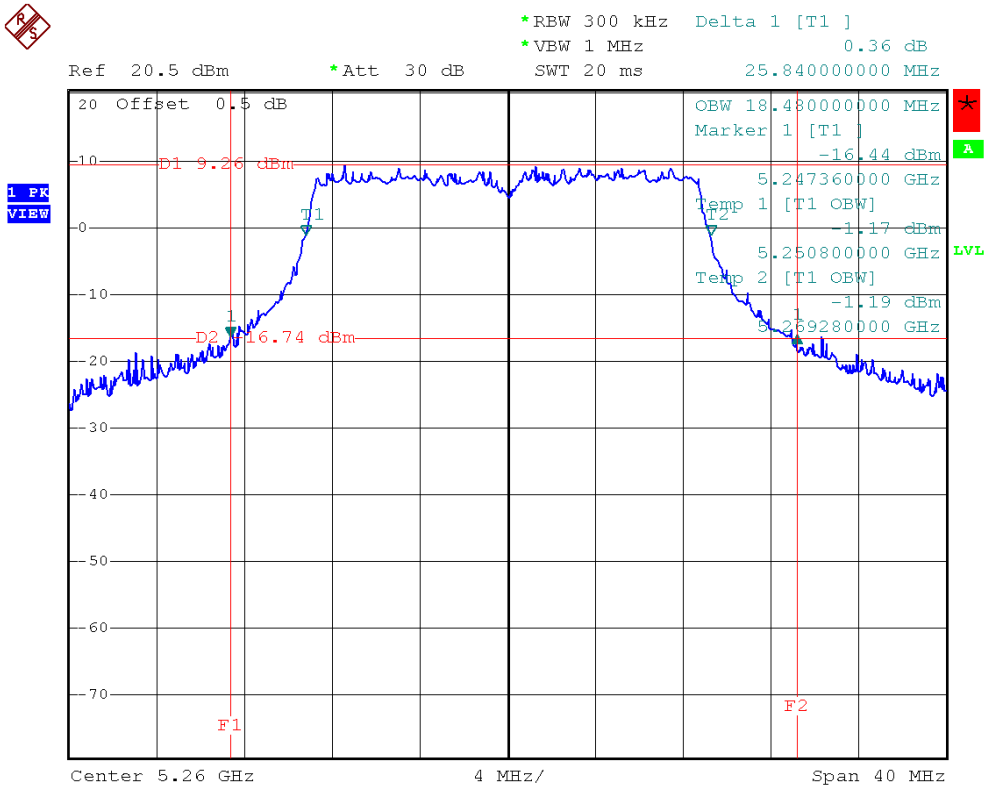
CH64(Port. 0)



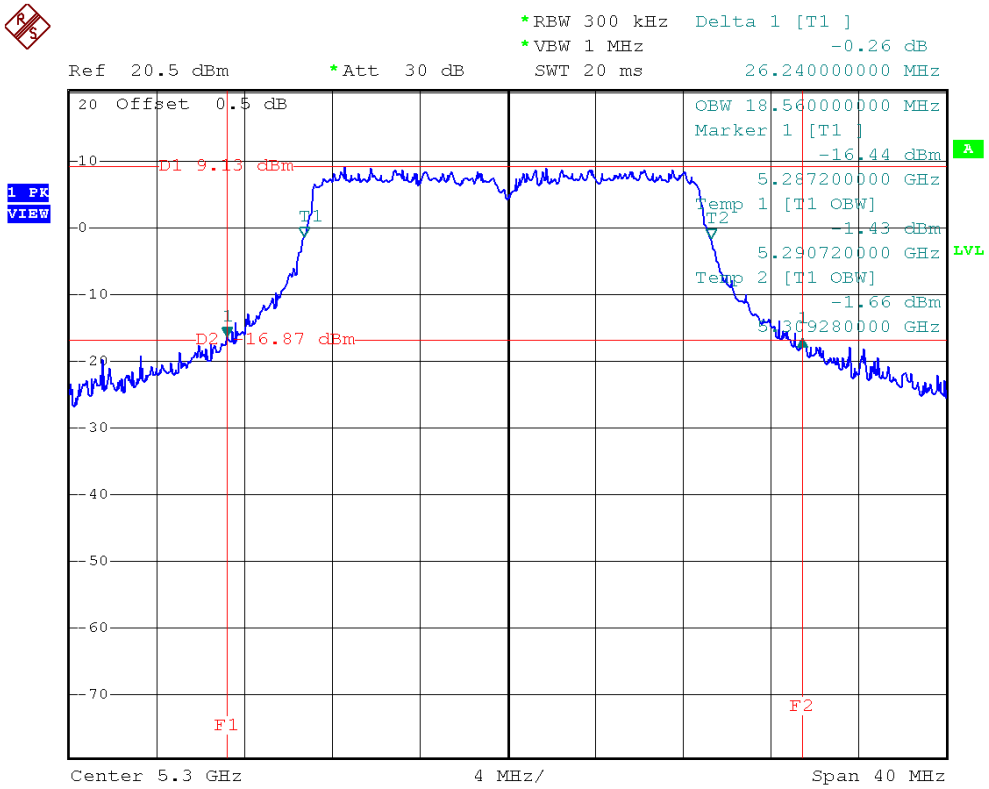
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH52, CH60, CH64(Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	25.84	18.48
60	5300	26.24	18.56
64	5320	24.64	17.12

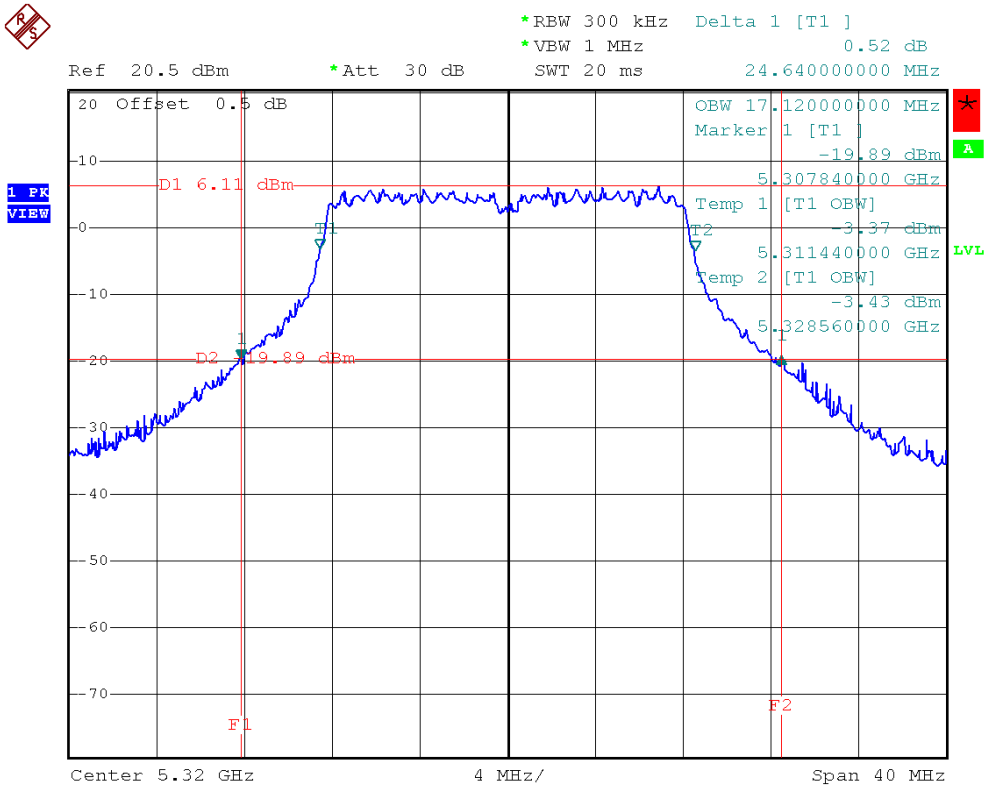
CH52(Port. 1)



CH60(Port. 1)



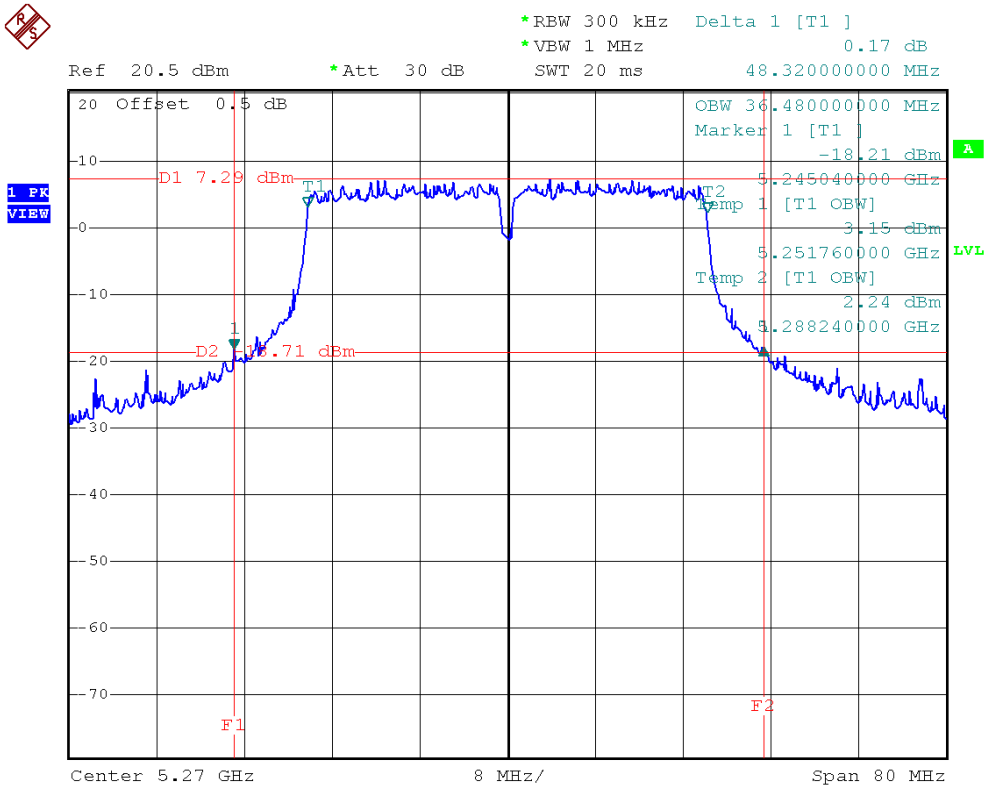
CH64(Port. 1)



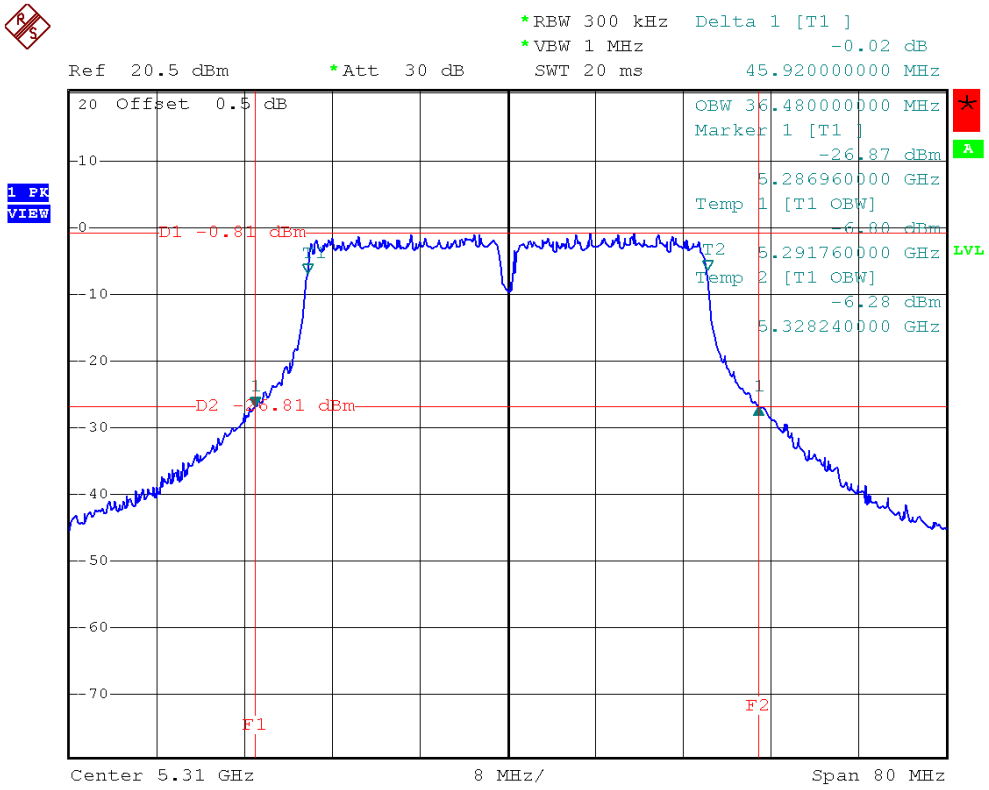
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH54, CH62(Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
54	5270	48.32	36.48
62	5310	45.92	36.48

CH54(Port. 0)



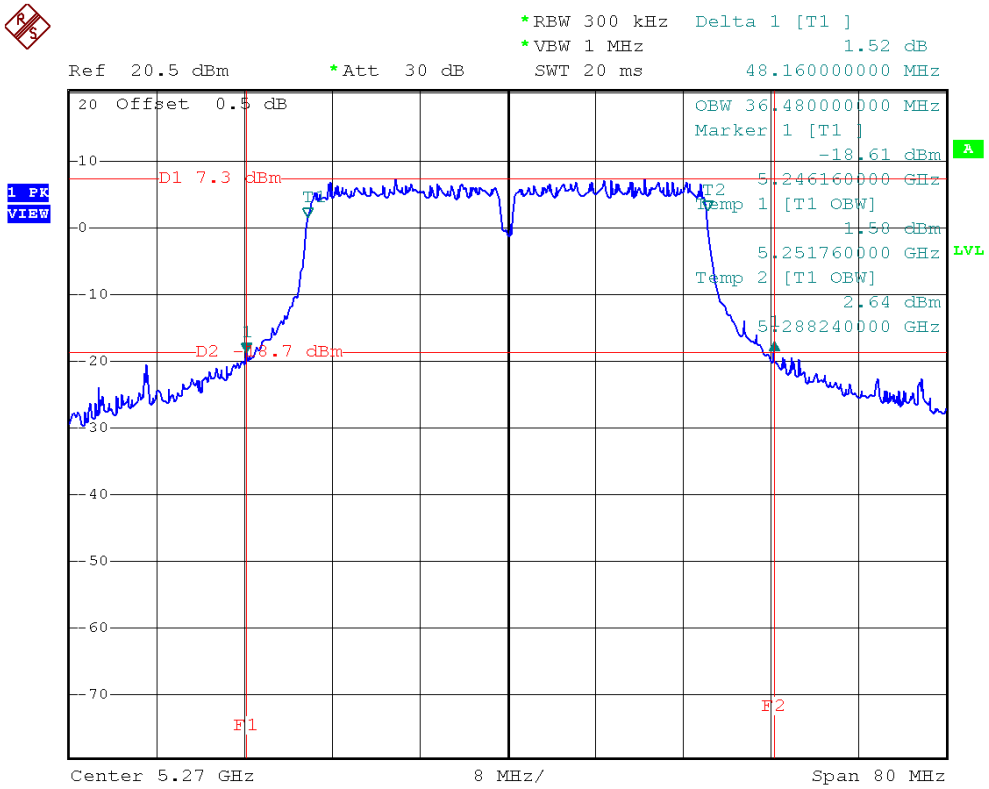
CH62(Port. 0)



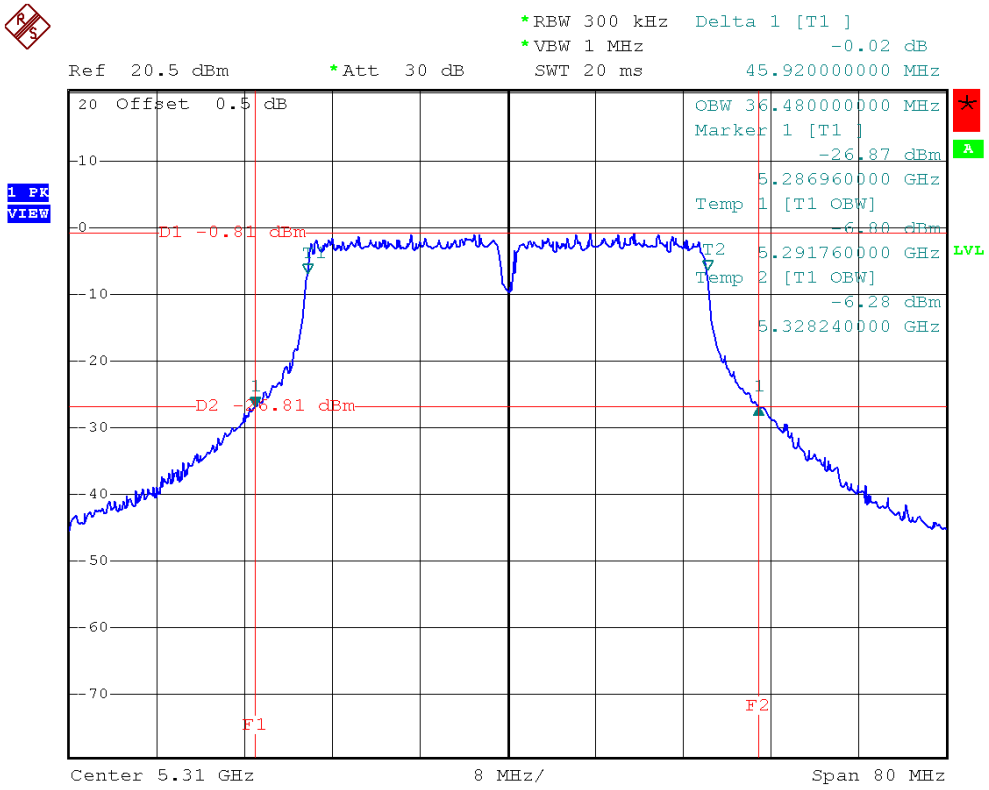
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH54, CH62(Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
54	5270	48.16	36.48
62	5310	45.92	36.48

CH54(Port. 1)



CH62(Port. 1)

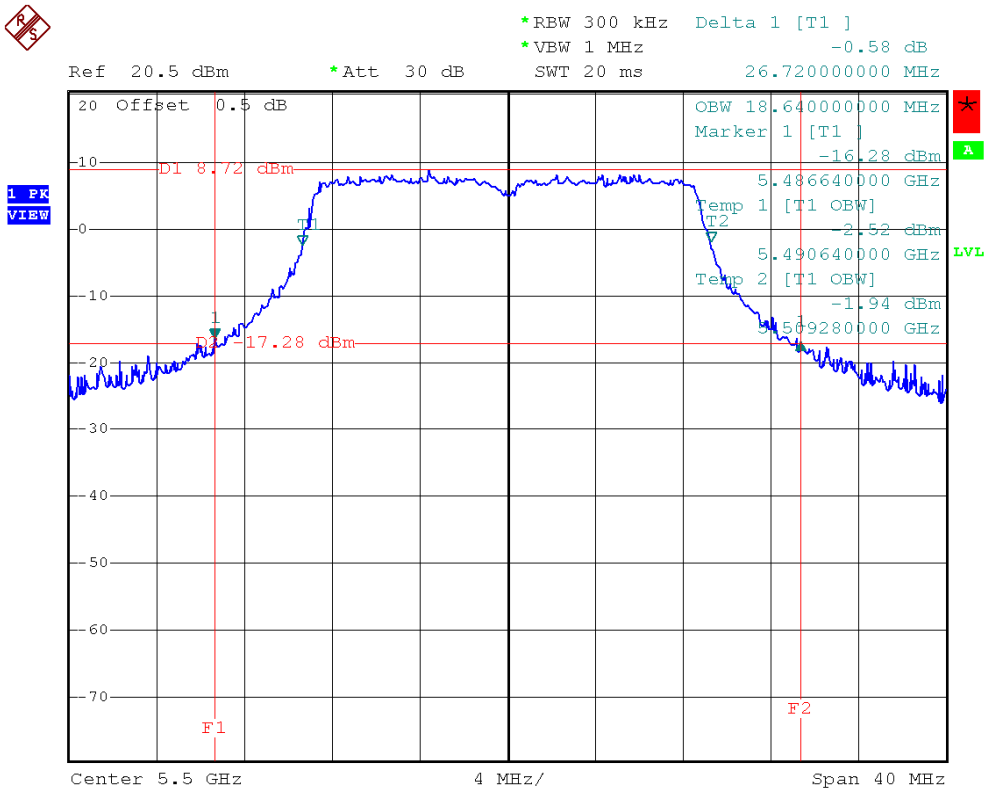


5.1.8 TEST RESULTS - BAND 3

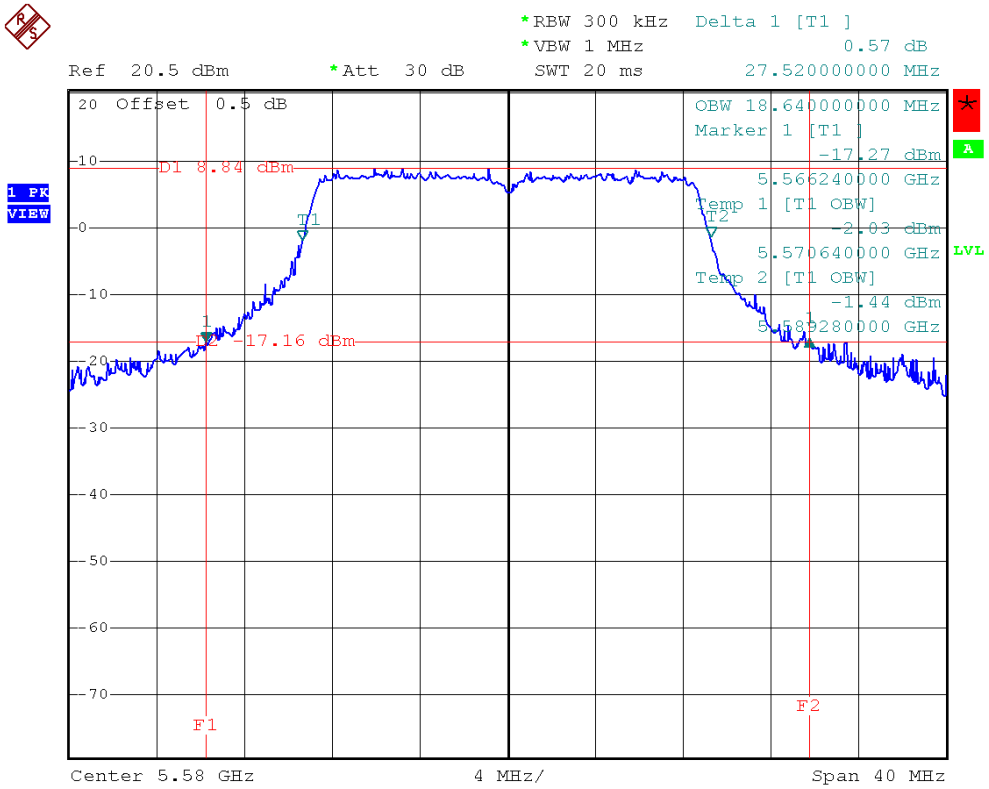
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH100, CH116, CH140(Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
100	5500	26.72	18.64
116	5580	27.52	18.64
140	5700	25.76	17.92

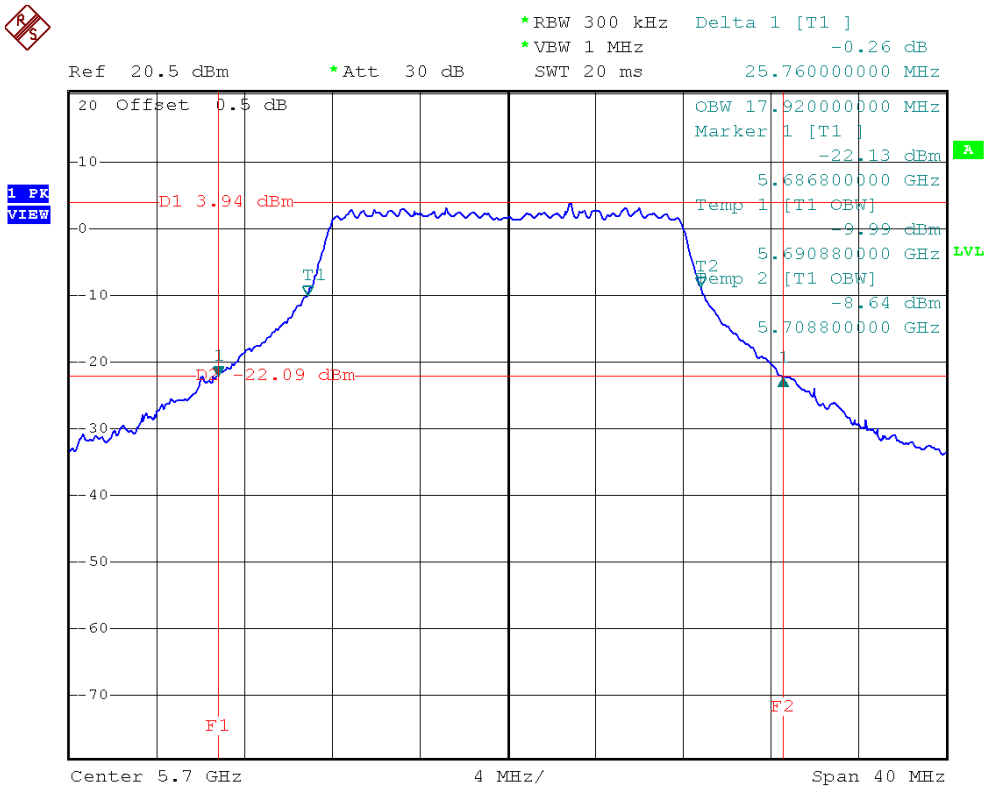
CH100(Port. 0)



CH116(Port. 0)



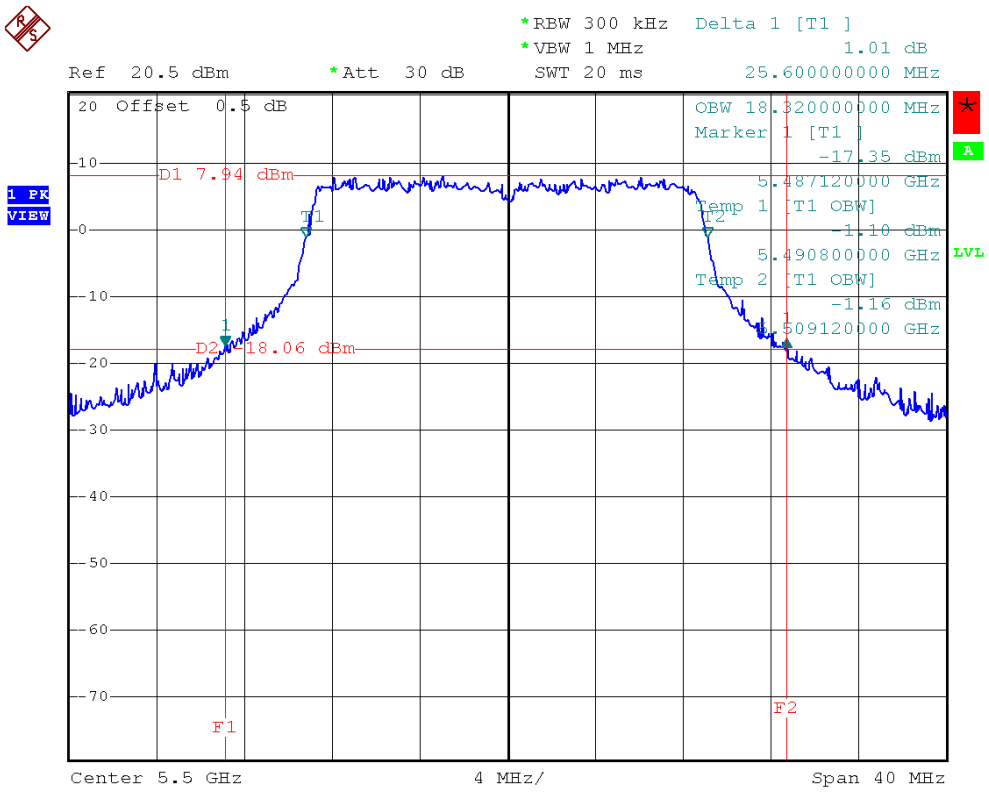
CH140(Port. 0)



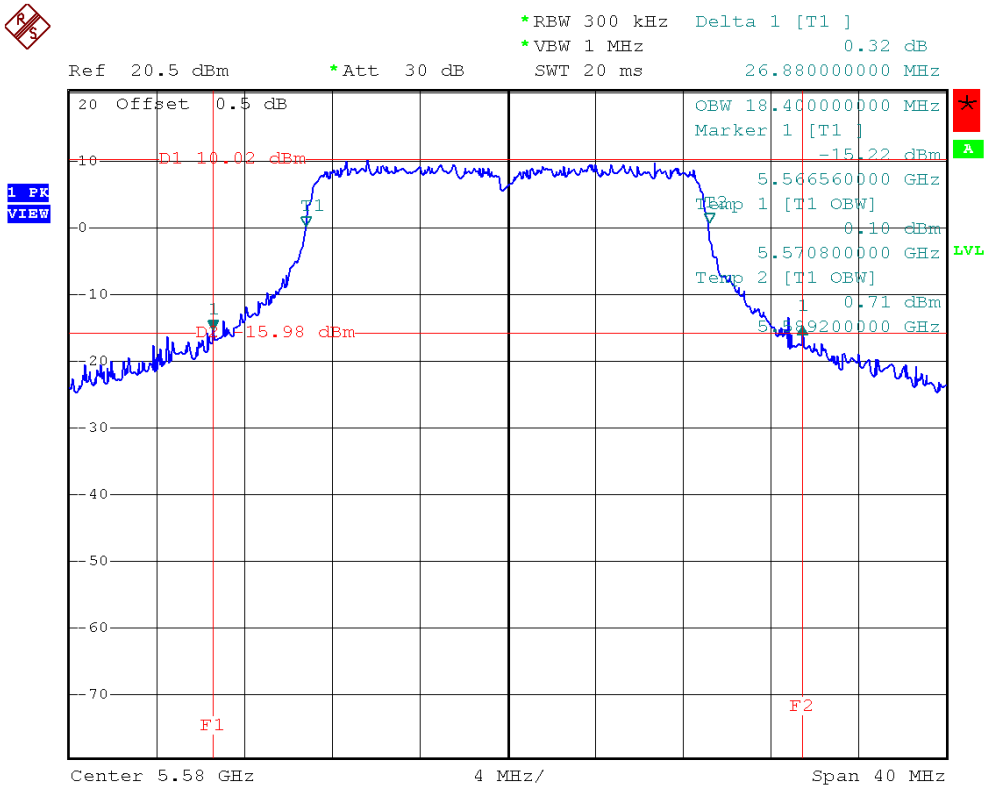
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100, CH116, CH140 (Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
100	5500	25.60	18.32
116	5580	26.88	18.40
140	5700	24.72	18.32

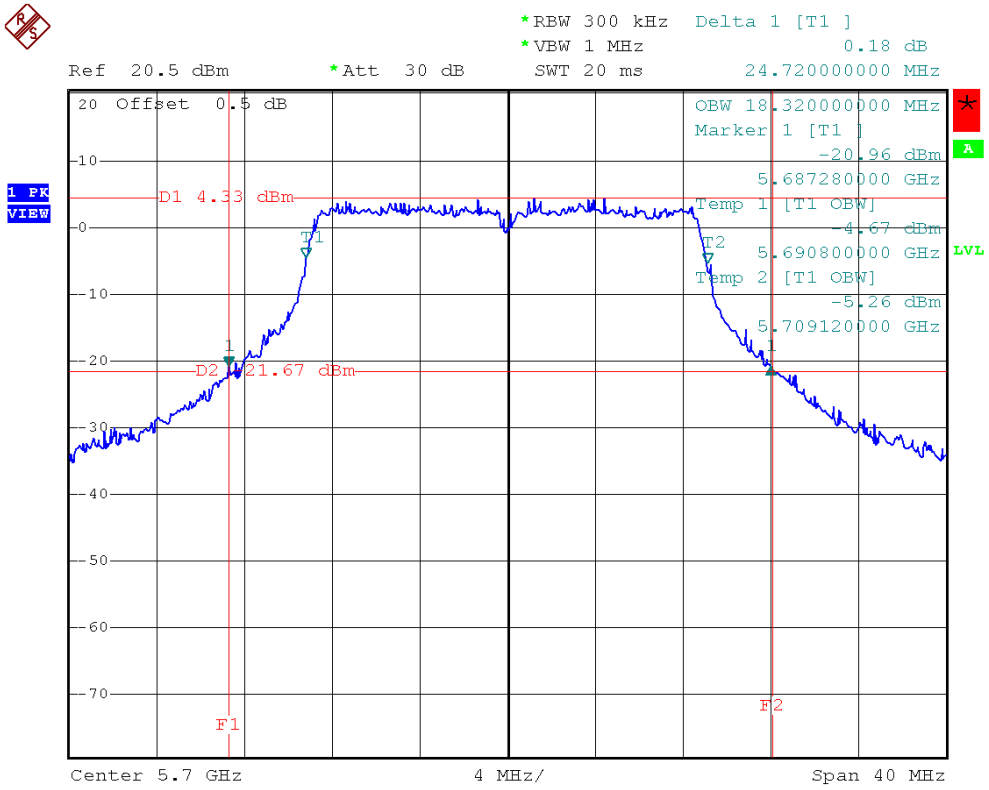
CH100(Port. 0)



CH116(Port. 0)



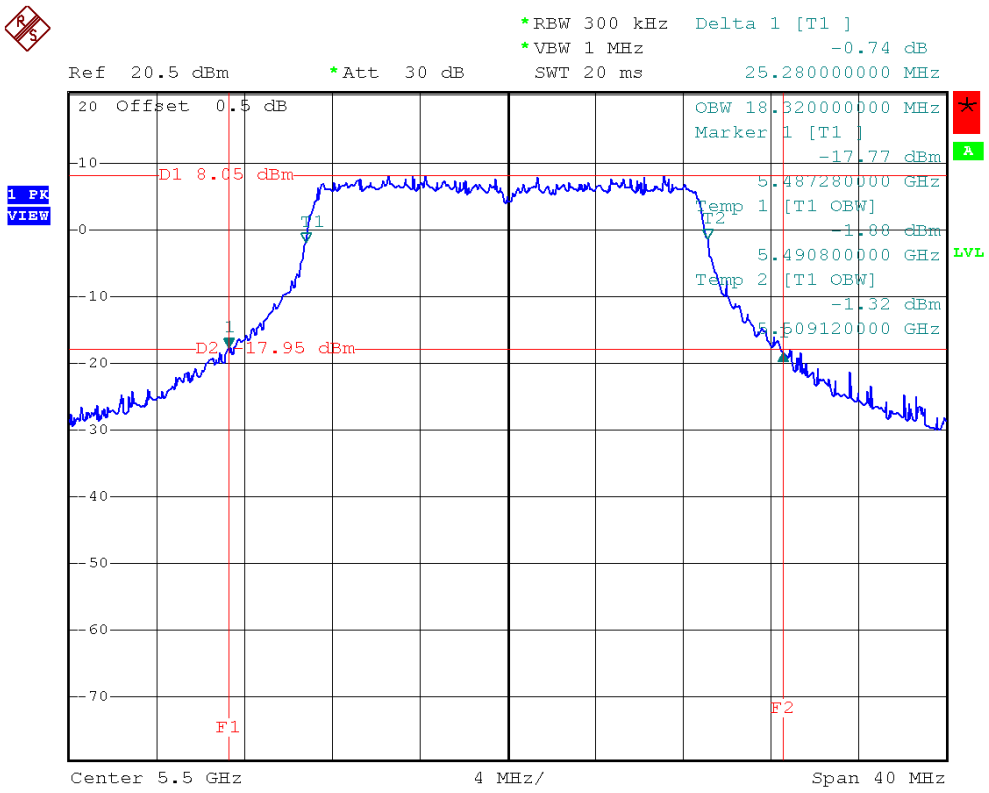
CH140(Port. 0)



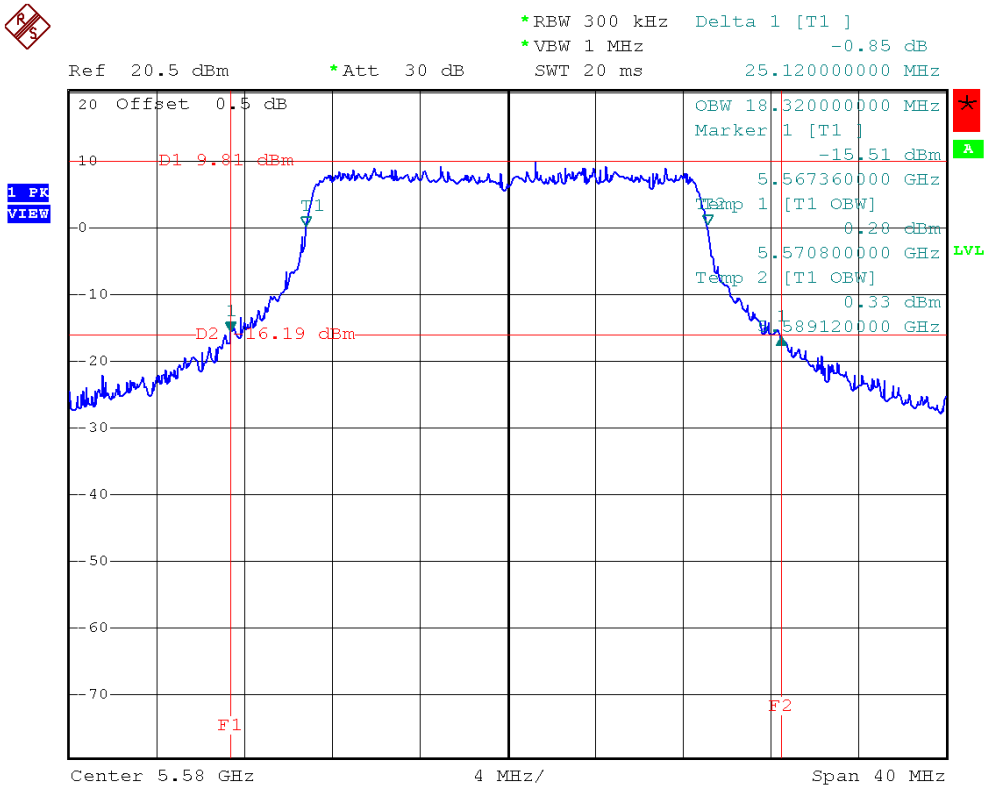
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100, CH116, CH140 (Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
100	5500	25.28	18.32
116	5580	25.12	18.32
140	5700	25.20	18.32

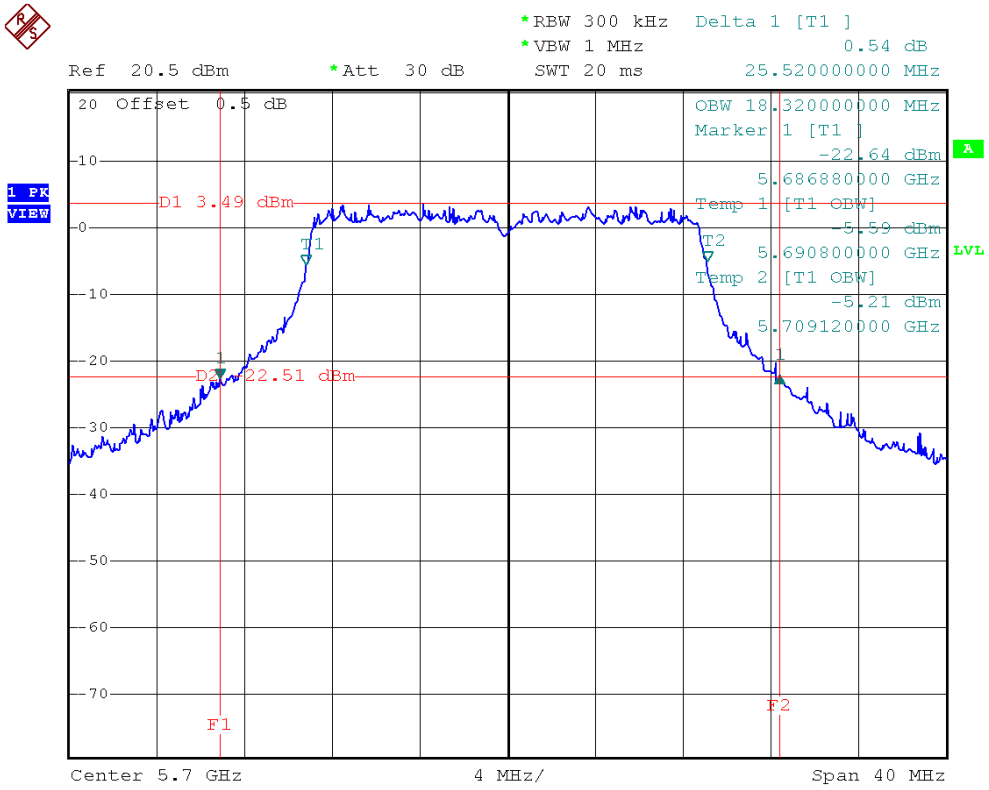
CH100(Port. 1)



CH116(Port. 1)



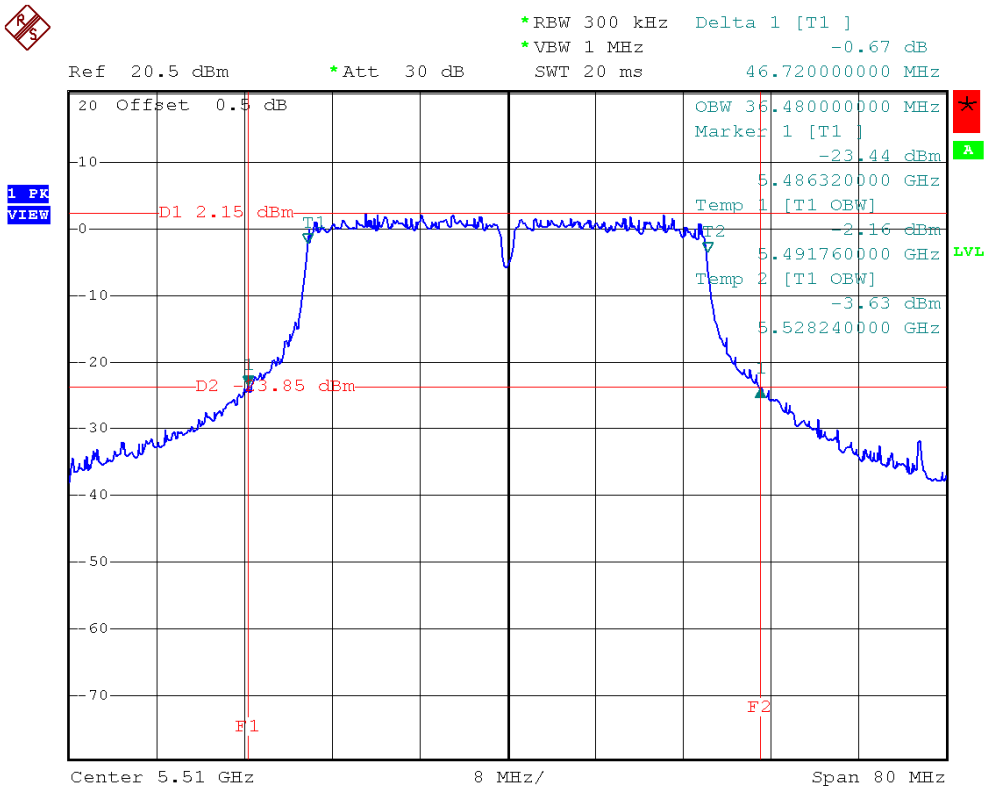
CH140(Port. 1)



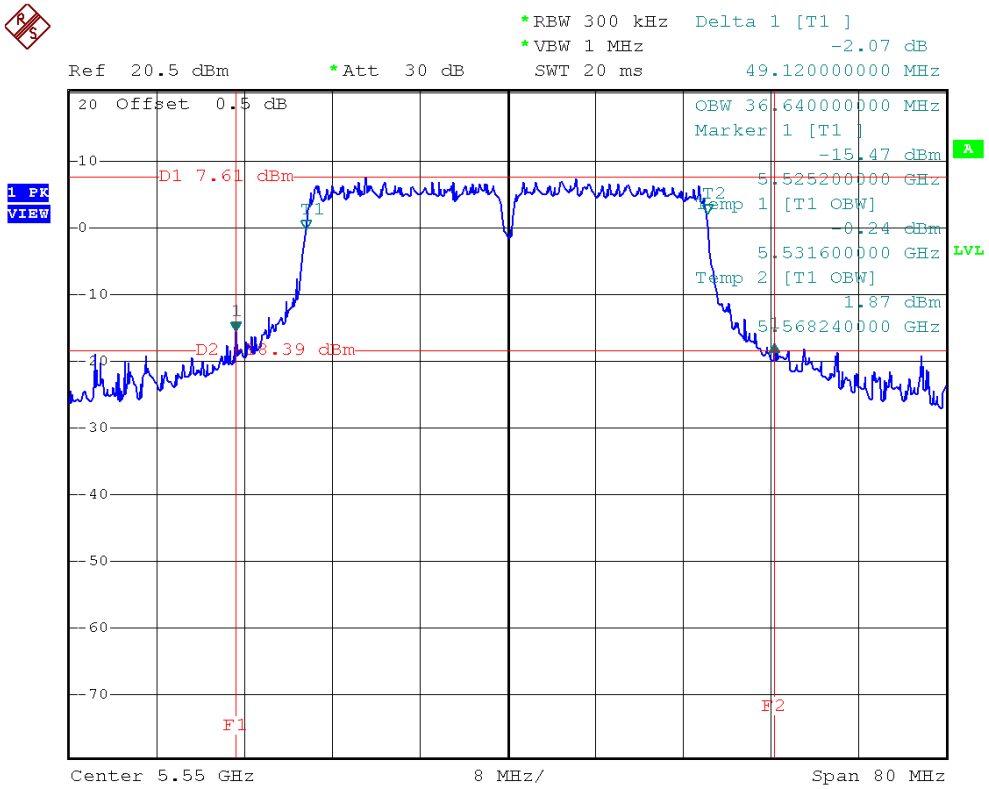
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102, CH110, CH134 (Port. 0)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
102	5510	46.72	36.48
110	5550	49.12	36.64
134	5670	48.48	36.64

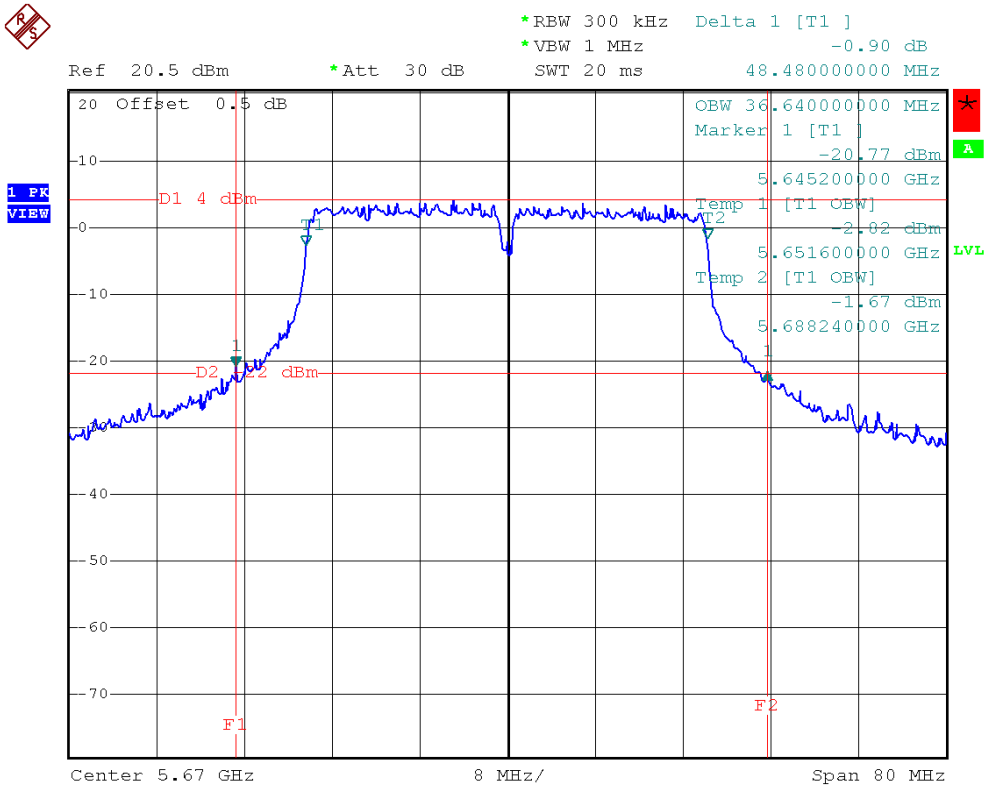
CH102(Port. 0)



CH110(Port. 0)



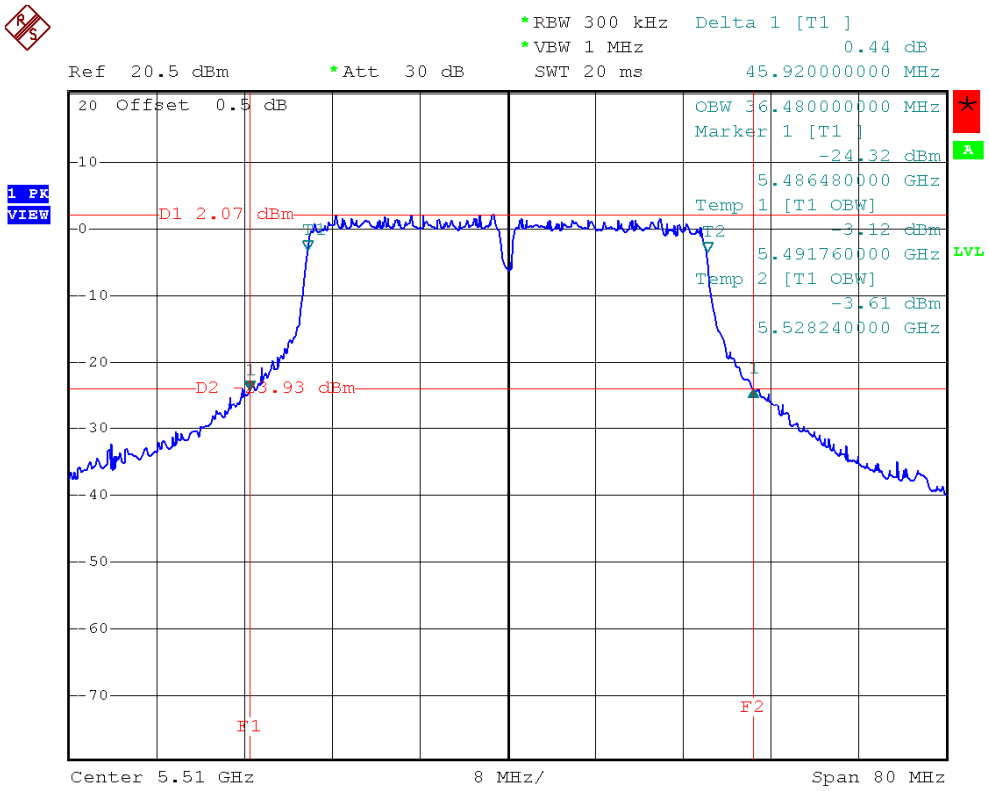
CH134(Port. 0)



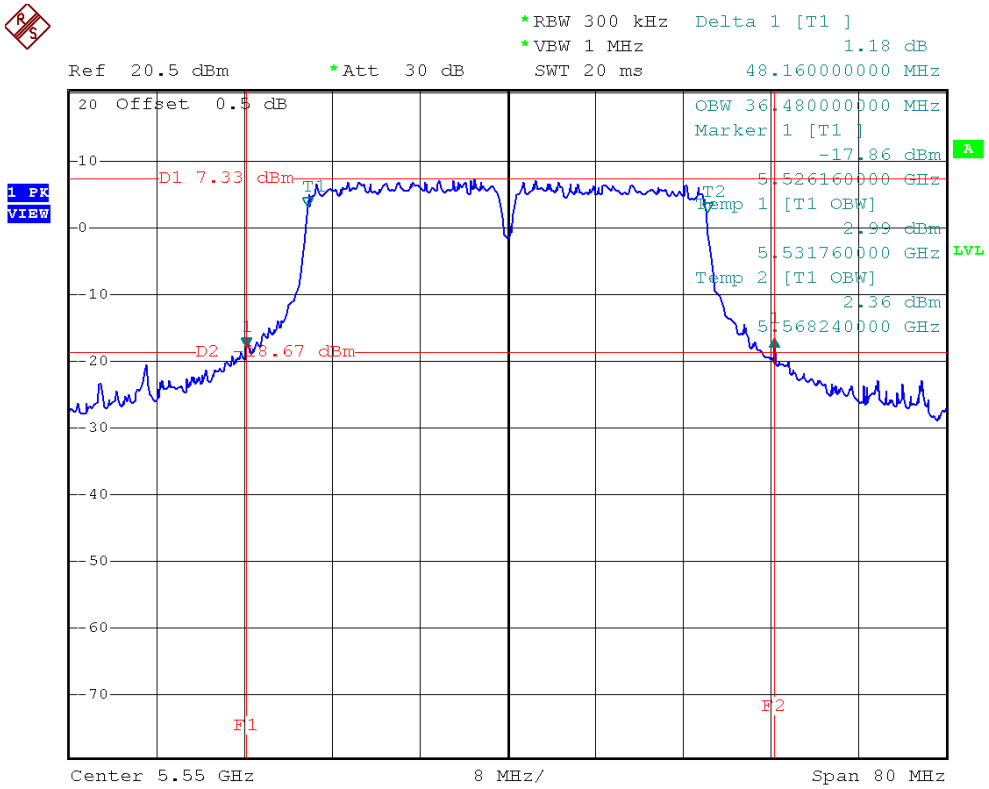
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13˚C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102, CH110, CH134 (Port. 1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
102	5510	45.92	36.48
110	5550	48.16	36.48
134	5670	46.24	36.64

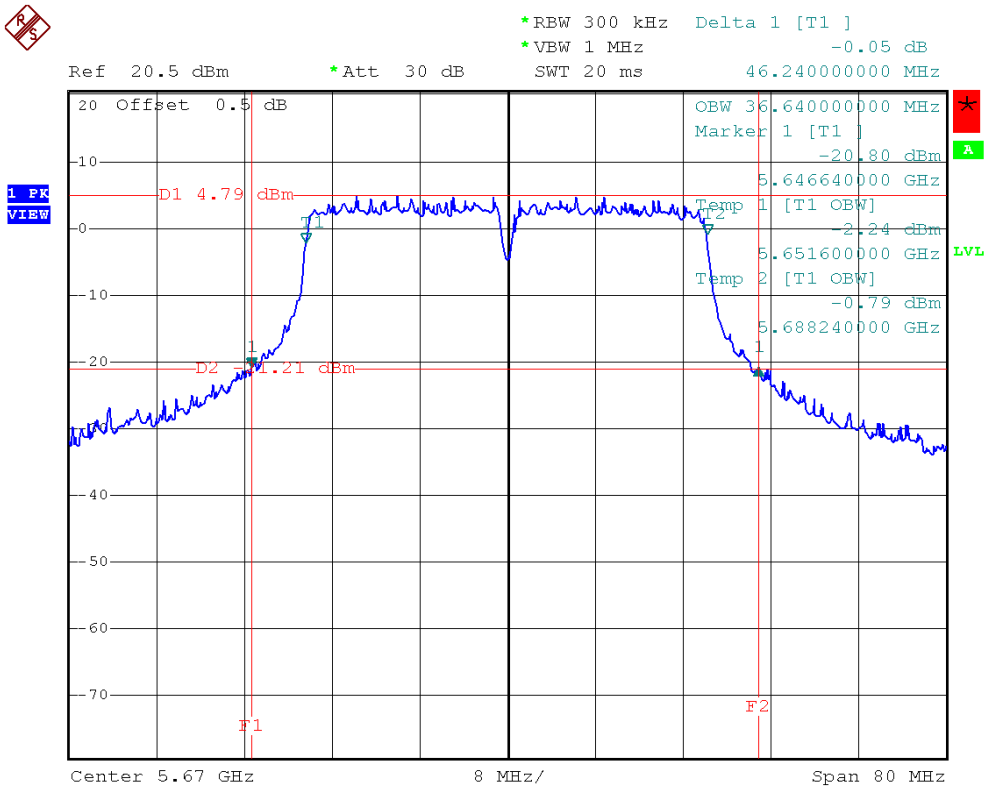
CH102 (Port. 1)



CH110 (Port. 1)



CH134 (Port. 1)



6. Maximum Conducted Output Power

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Frequency Range (MHz)	Limit	Result
Peak Output Power	5150 - 5250	not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B,	PASS
	5250 - 5350	not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B	PASS
	5470 - 5725	not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B	PASS
	5725 - 5825	not exceed the lesser of 1 W (30dBm) or 17 dBm + 10log B.	N/A

Note: where "B" is the 26 dB emissions bandwidth in MHz.

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 09, 2010

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

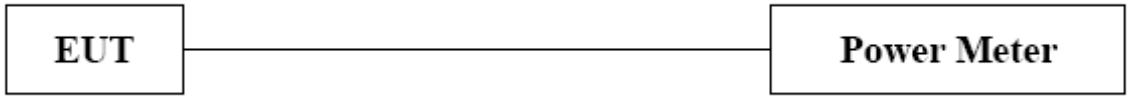
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	300 kHz
Detector	Sample
Trace	Max Hold
Sweep Time	60s

b. Test was performed in accordance with method #3 of FCC Public Notice DA-02-2138.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

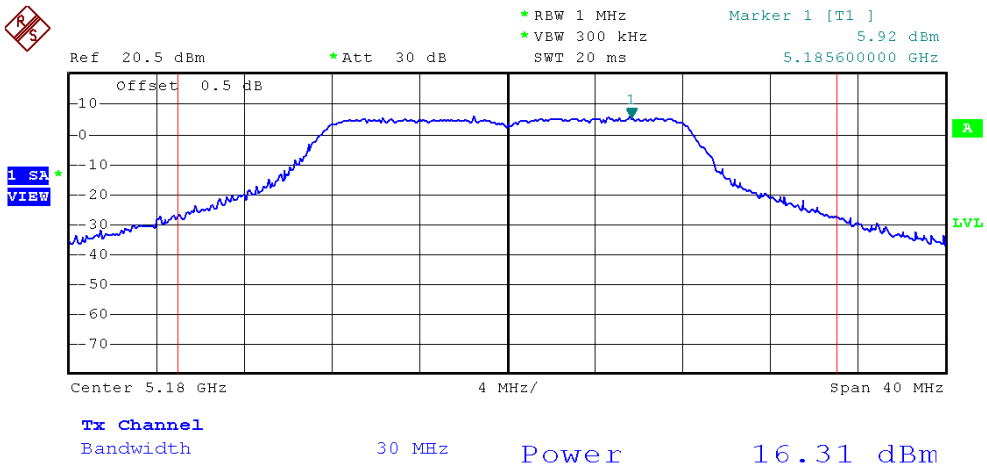
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.6 TEST RESULTS - BAND 1

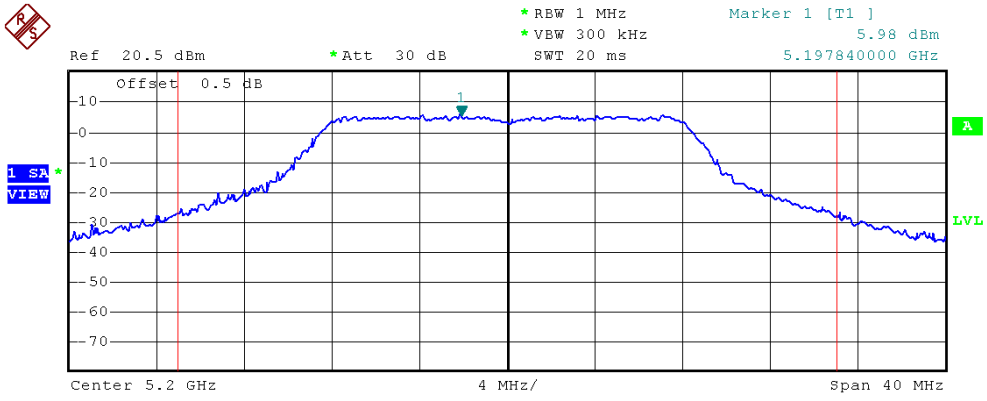
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH36, CH40, CH48		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
36	5180	16.31	17.00	0.0501
40	5200	16.35	17.00	0.0501
48	5240	15.55	17.00	0.0501

CH36

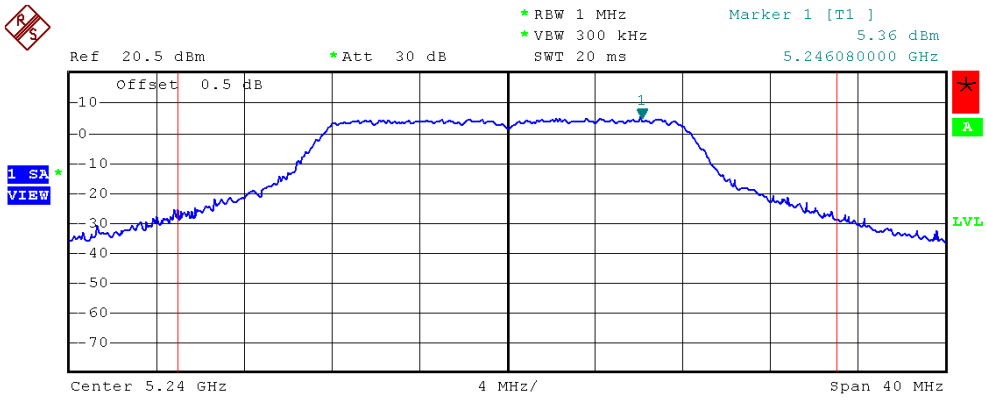


CH40



Tx Channel
Bandwidth 30 MHz Power 16.35 dBm

CH48



Tx Channel
Bandwidth 30 MHz Power 15.55 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36, CH40, CH48		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
36	5180	13.90	0.0245	17.00	0.0501
40	5200	13.89	0.0245	17.00	0.0501
48	5240	13.73	0.0236	17.00	0.0501

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
36	5180	13.79	0.0239	17.00	0.0501
40	5200	13.85	0.0243	17.00	0.0501
48	5240	14.00	0.0251	17.00	0.0501

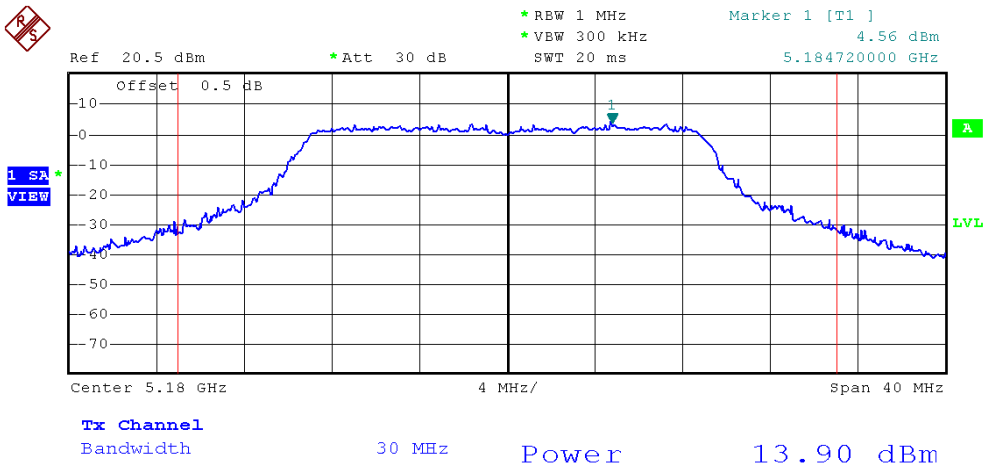
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
36	2412	16.86	0.0485	17.00	0.0501
40	2437	16.88	0.0488	17.00	0.0501
48	2462	16.88	0.0487	17.00	0.0501

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

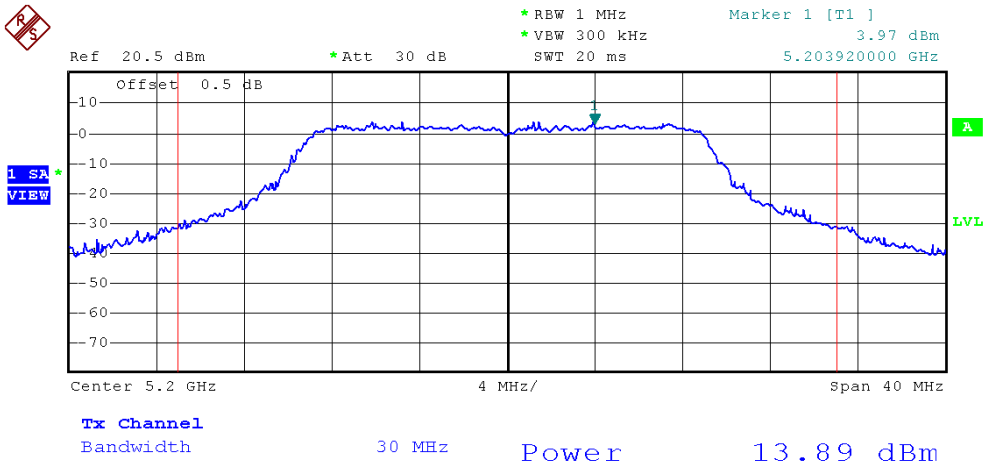
(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

CH36 (Port 0)



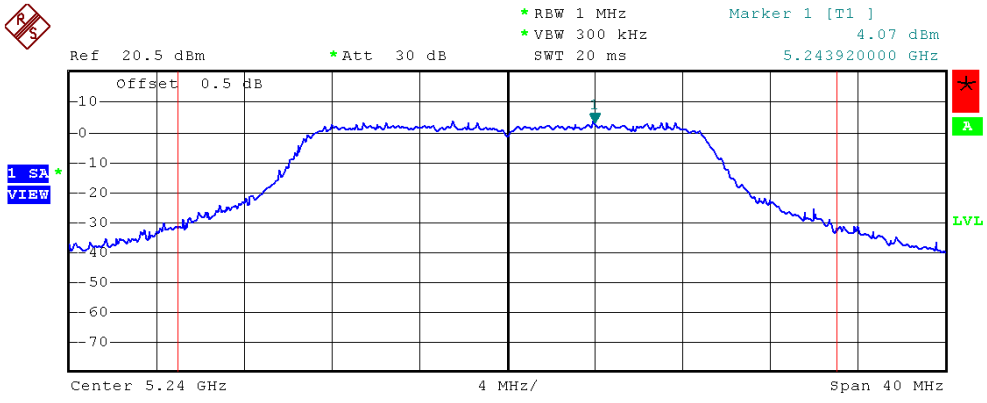
Tx Channel
Bandwidth 30 MHz Power 13.90 dBm

CH40 (Port 0)



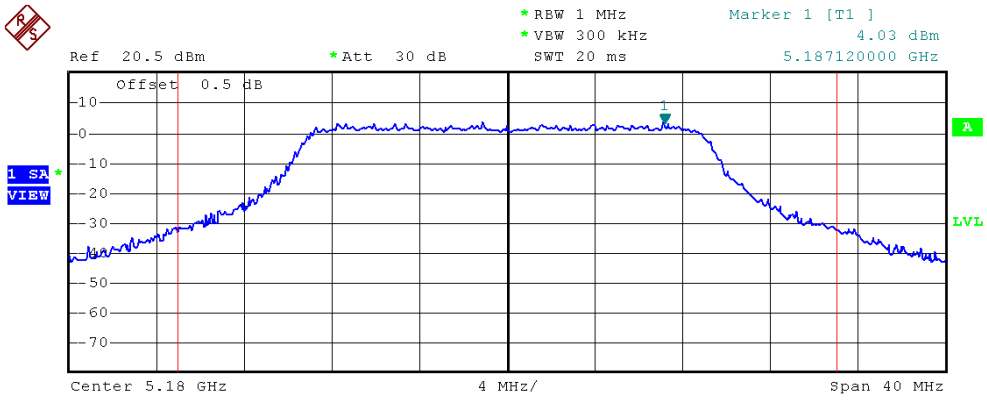
Tx Channel
Bandwidth 30 MHz Power 13.89 dBm

CH48 (Port 0)



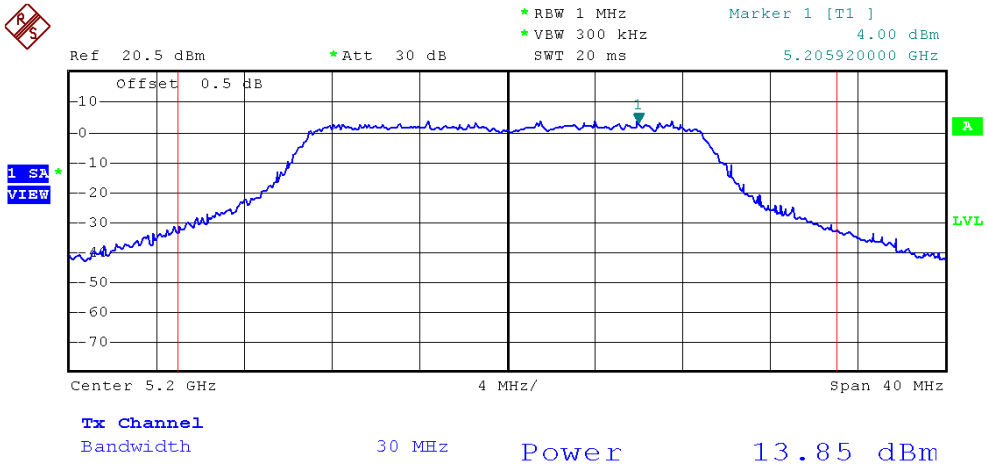
Tx Channel
Bandwidth 30 MHz Power 13.73 dBm

CH36 (Port 1)



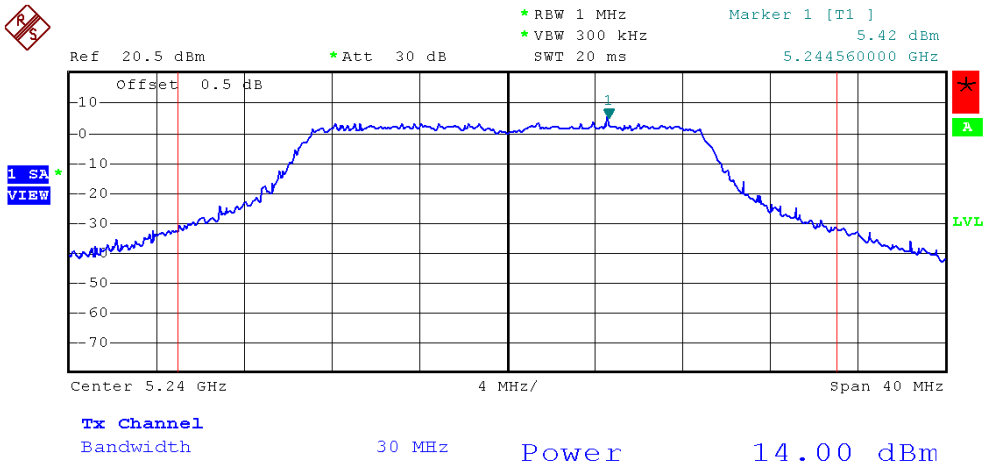
Tx Channel
Bandwidth 30 MHz Power 13.79 dBm

CH40 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 13.85 dBm

CH48 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 14.00 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38, CH46		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
38	5190	13.27	0.0212	17.00	0.0501
46	5230	14.05	0.0254	17.00	0.0501

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
38	5190	13.28	0.0213	17.00	0.0501
46	5230	13.91	0.0246	17.00	0.0501

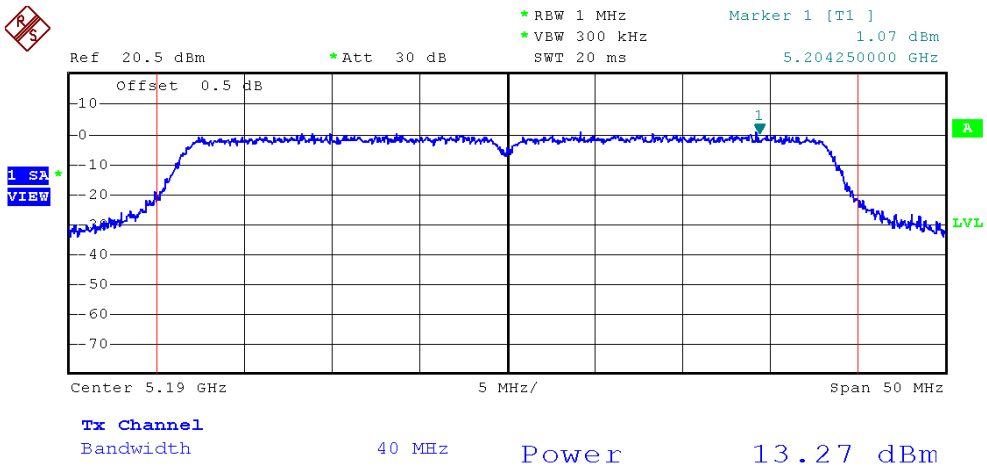
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
38	5190	16.29	0.0425	17.00	0.0501
46	5230	16.99	0.0500	17.00	0.0501

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

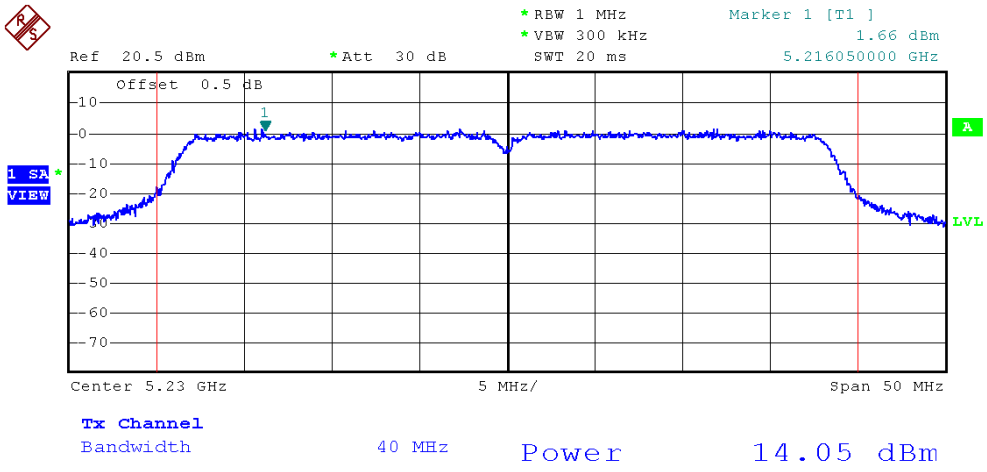
(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

CH38 (Port 0)



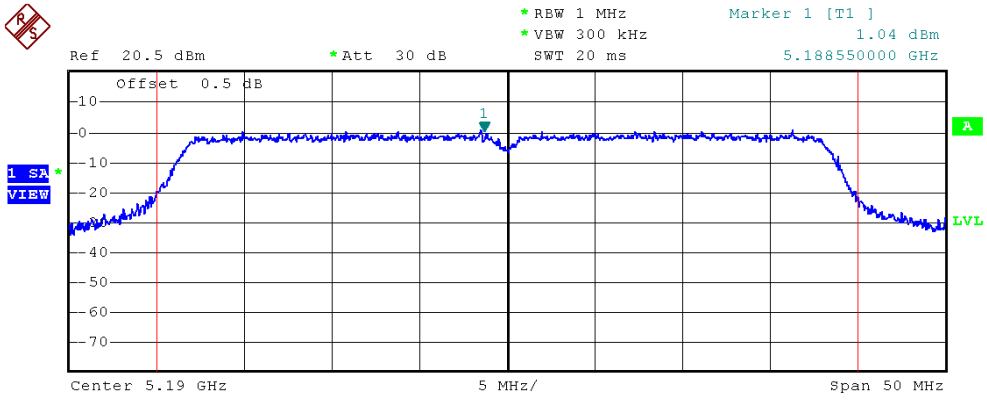
Tx Channel
Bandwidth 40 MHz Power 13.27 dBm

CH46 (Port 0)



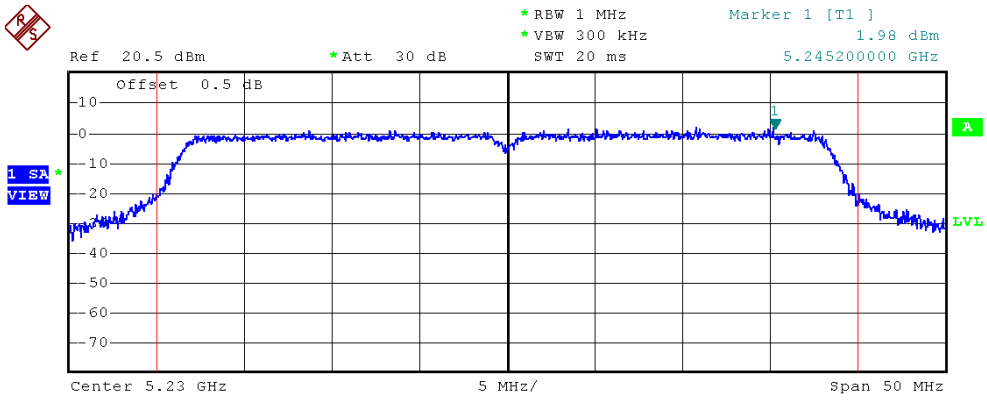
Tx Channel
Bandwidth 40 MHz Power 14.05 dBm

CH38 (Port 1)



Tx Channel
Bandwidth 40 MHz Power 13.28 dBm

CH46 (Port 1)



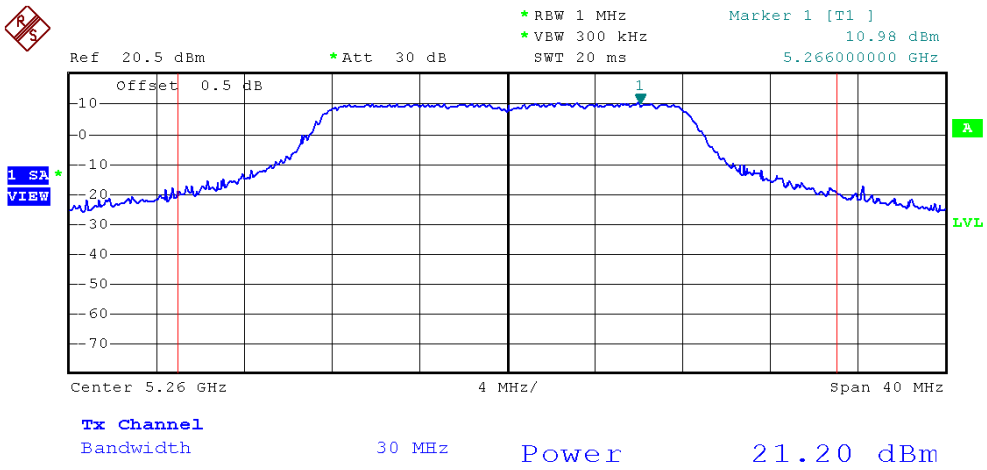
Tx Channel
Bandwidth 40 MHz Power 13.91 dBm

6.1.7 TEST RESULTS - BAND 2

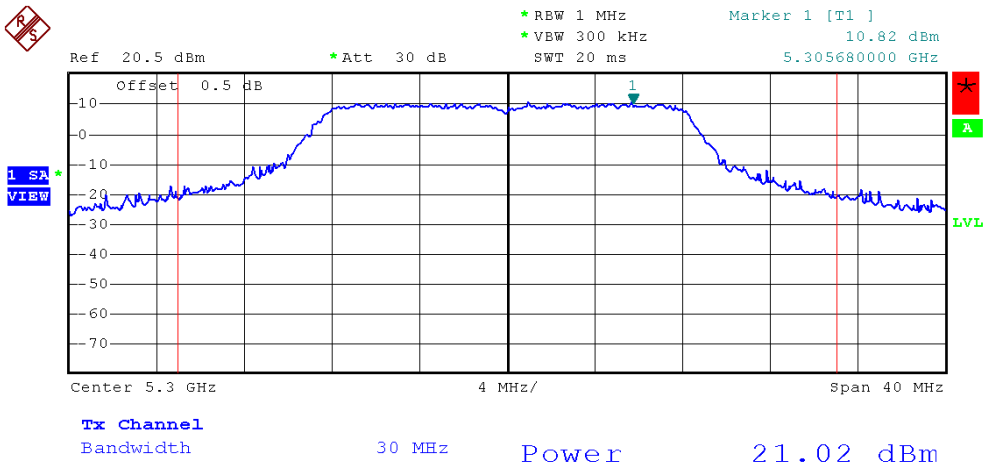
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH52, CH60, CH64		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
52	5260	21.20	24.00	0.2512
60	5300	21.02	24.00	0.2512
64	5320	17.05	24.00	0.2512

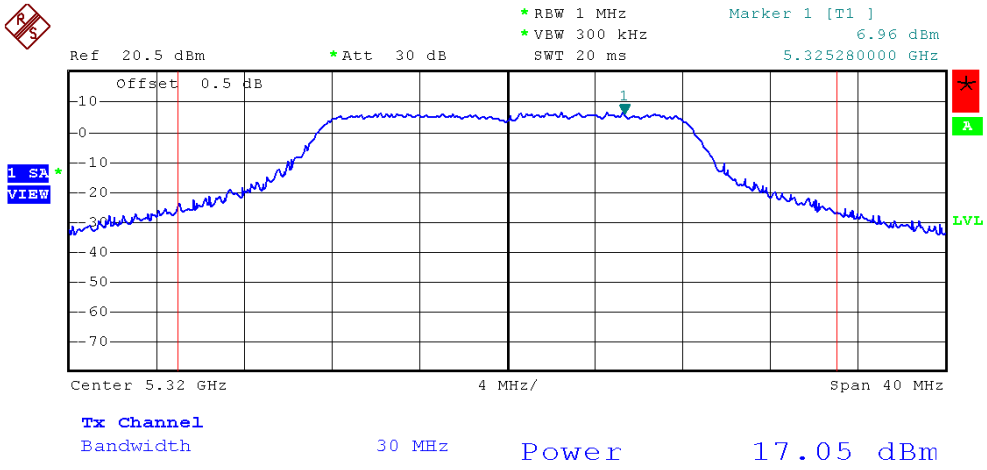
CH52 (Port 0)



CH60 (Port 0)



CH64 (Port 0)


RBW 1 MHz
VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
6.96 dBm
5.325280000 GHz
Ref 20.5 dBm
Att 30 dB
Offset 0.5 dB
1 SA
VIEW
LVL
Center 5.32 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
30 MHz
Power
17.05 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH52, CH60, CH64		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
52	5260	19.00	0.0794	0.00	0.0010
60	5300	19.03	0.0800	0.00	0.0010
64	5320	14.05	0.0254	0.00	0.0010

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
52	5260	19.52	0.0895	0.00	0.0010
60	5300	19.17	0.0826	0.00	0.0010
64	5320	14.39	0.0275	0.00	0.0010

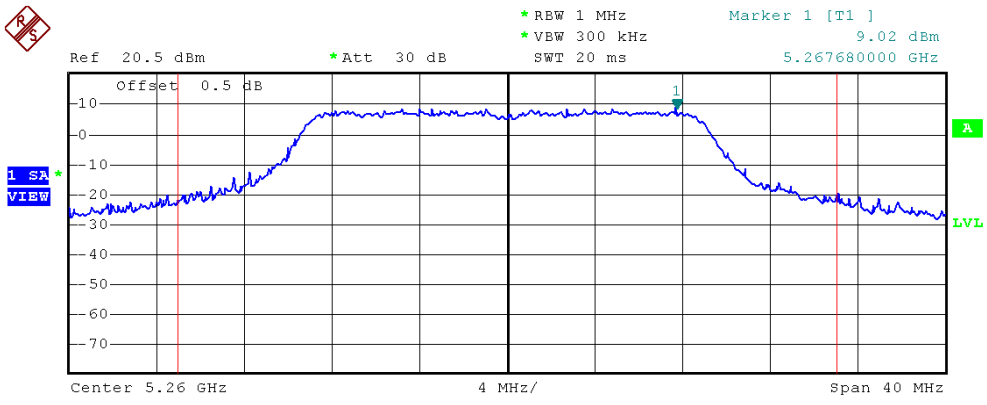
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
52	5260	22.28	0.1690	0.00	0.0010
60	5300	22.11	0.1626	0.00	0.0010
64	5320	17.23	0.0529	0.00	0.0010

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

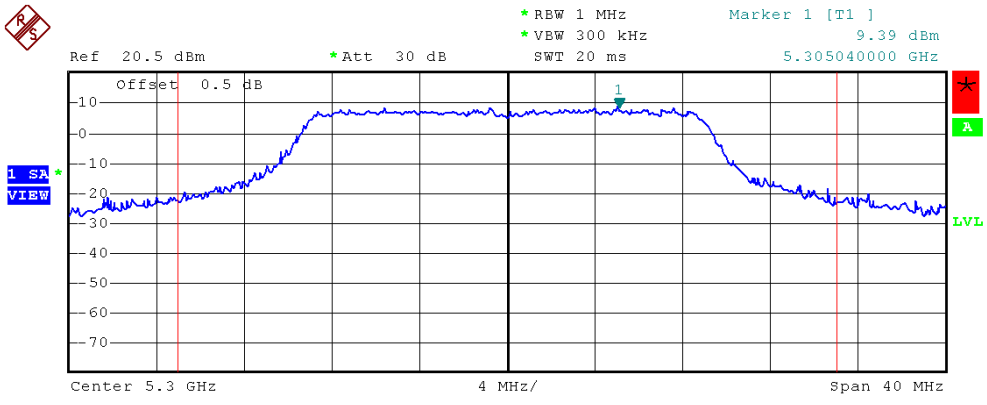
(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

CH52 (Port 0)



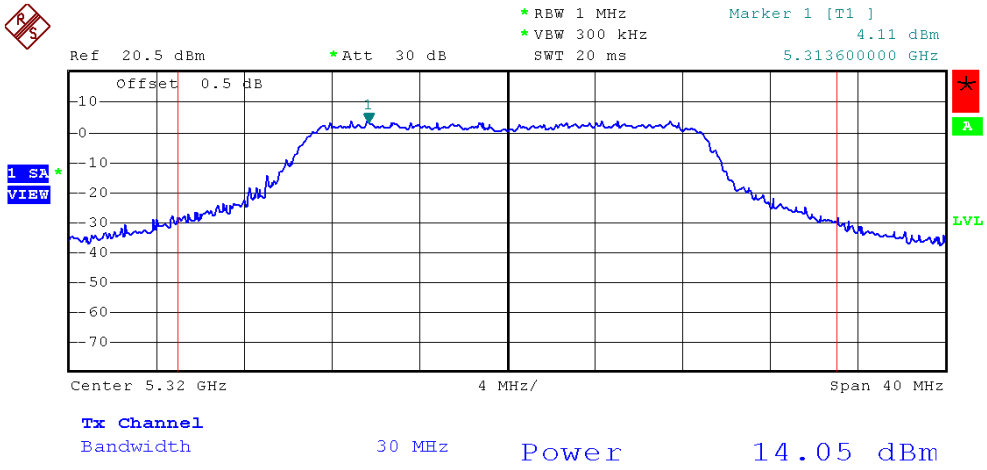
Tx Channel
Bandwidth 30 MHz Power 19.00 dBm

CH60 (Port 0)



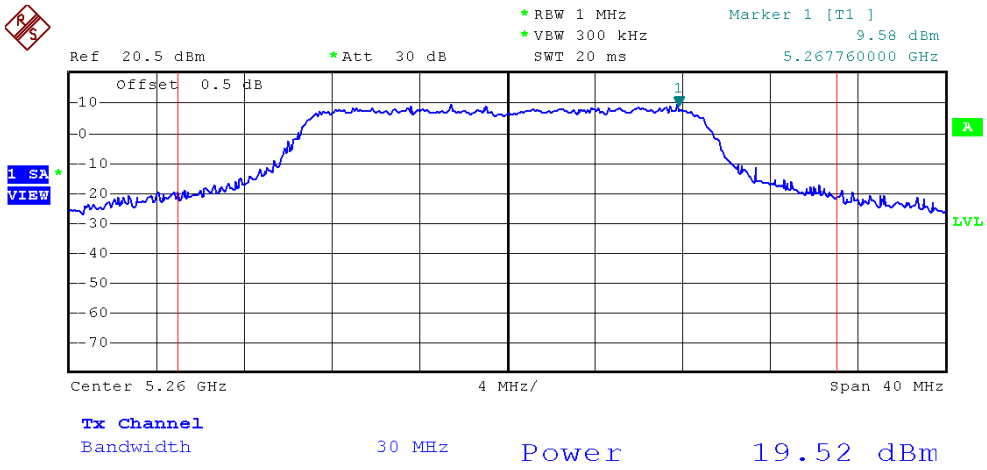
Tx Channel
Bandwidth 30 MHz Power 19.03 dBm

CH64 (Port 0)



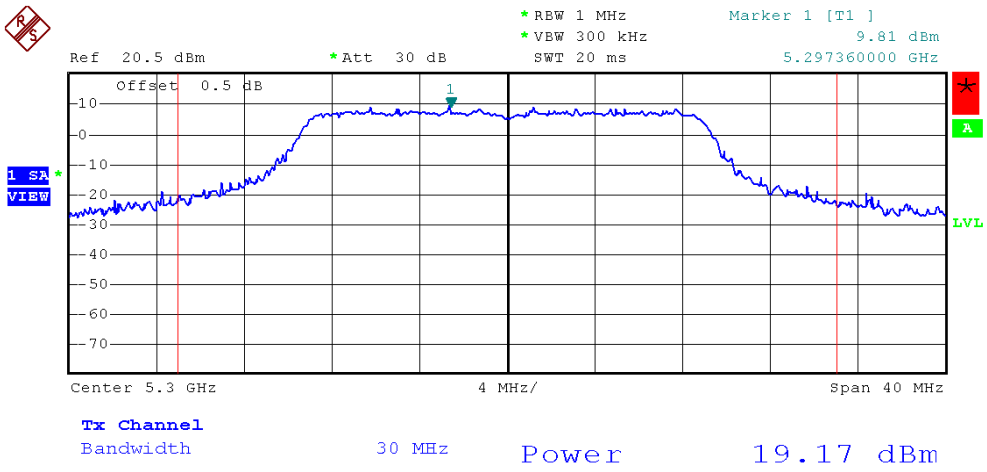
Tx Channel
Bandwidth 30 MHz Power 14.05 dBm

CH52 (Port 1)



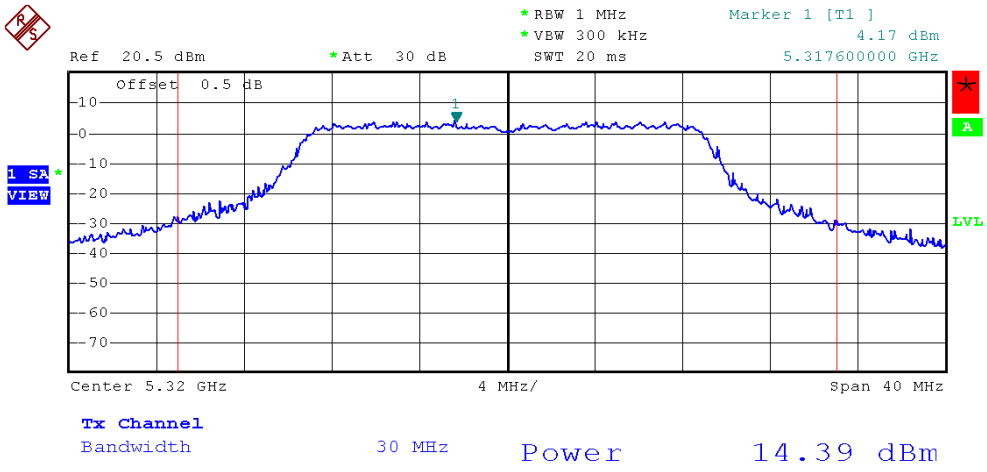
Tx Channel
Bandwidth 30 MHz Power 19.52 dBm

CH60 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 19.17 dBm

CH64 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 14.39 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH54, CH62		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
54	5270	20.05	0.1012	0.00	0.0010
62	5310	13.48	0.0223	0.00	0.0010

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
54	5270	20.69	0.1172	0.00	0.0010
62	5310	13.29	0.0213	0.00	0.0010

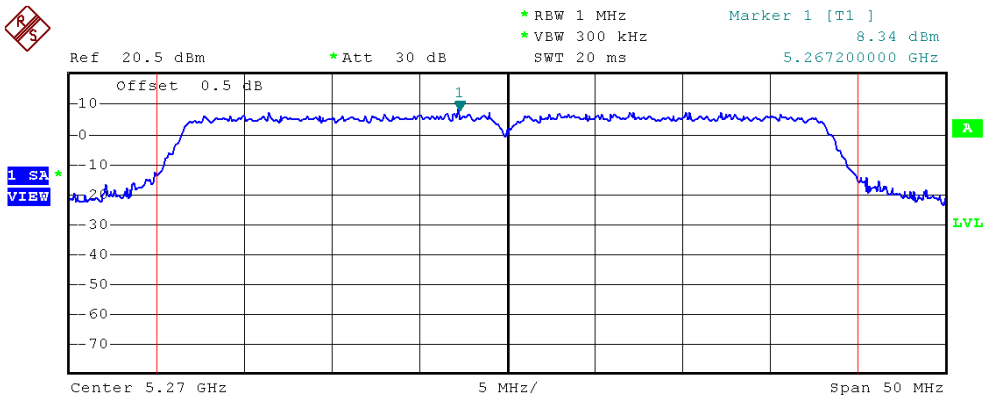
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
54	5270	23.39	0.2184	0.00	0.0010
62	5310	16.40	0.0436	0.00	0.0010

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

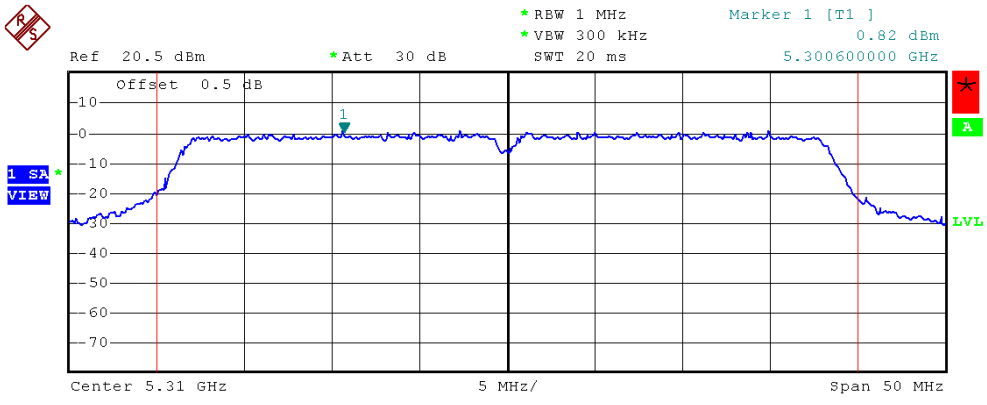
(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

CH54 (Port 0)



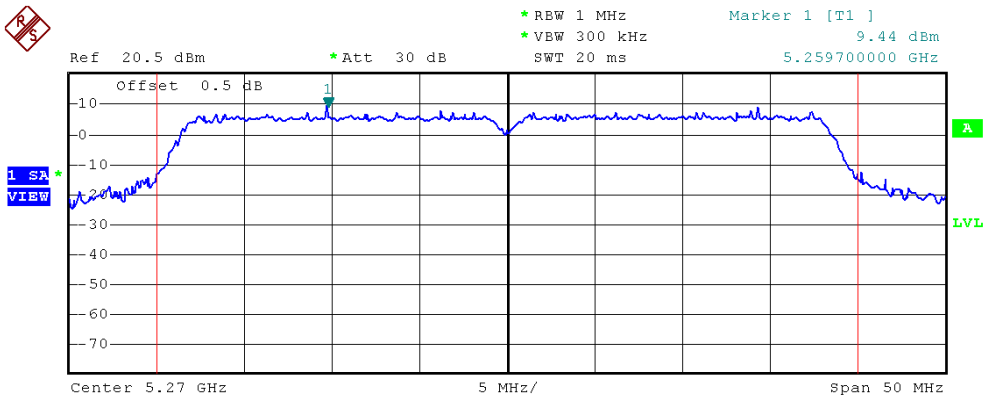
Tx Channel
Bandwidth 40 MHz Power 20.50 dBm

CH62 (Port 1)



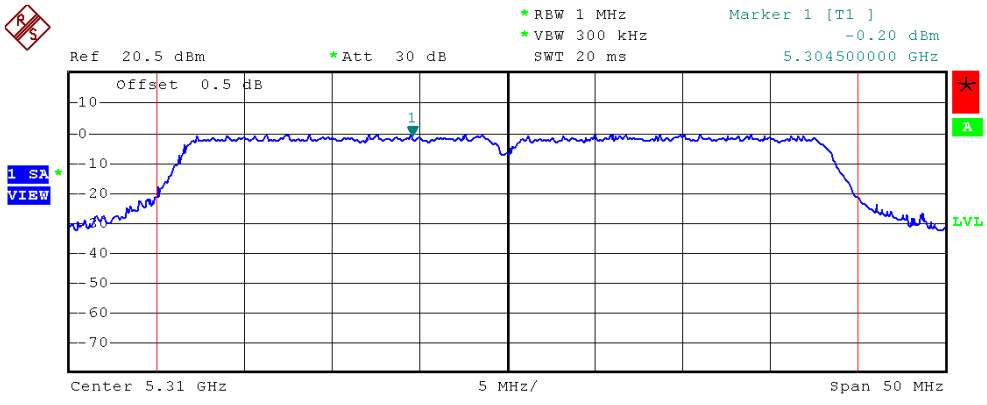
Tx Channel
Bandwidth 40 MHz Power 13.86 dBm

CH54 (Port 1)



Tx Channel
Bandwidth 40 MHz Power 20.69 dBm

CH62 (Port 1)



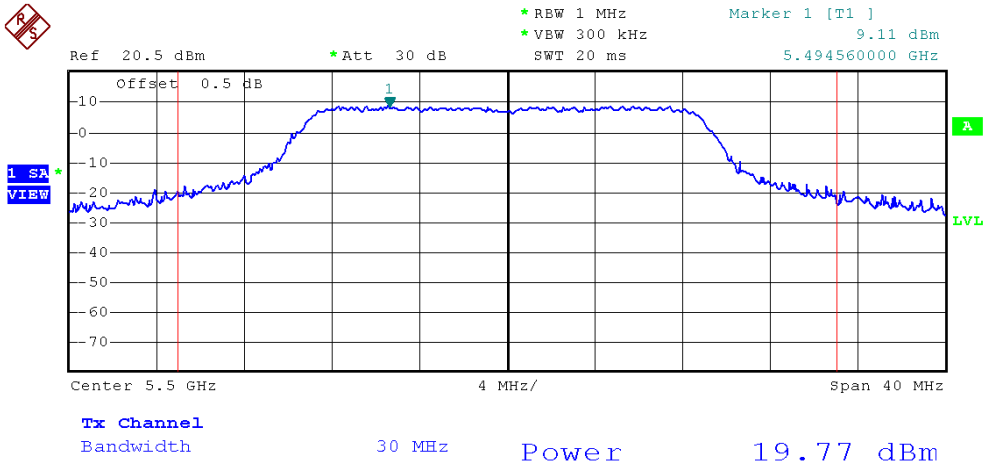
Tx Channel
Bandwidth 40 MHz Power 13.21 dBm

6.1.8 TEST RESULTS - BAND 3

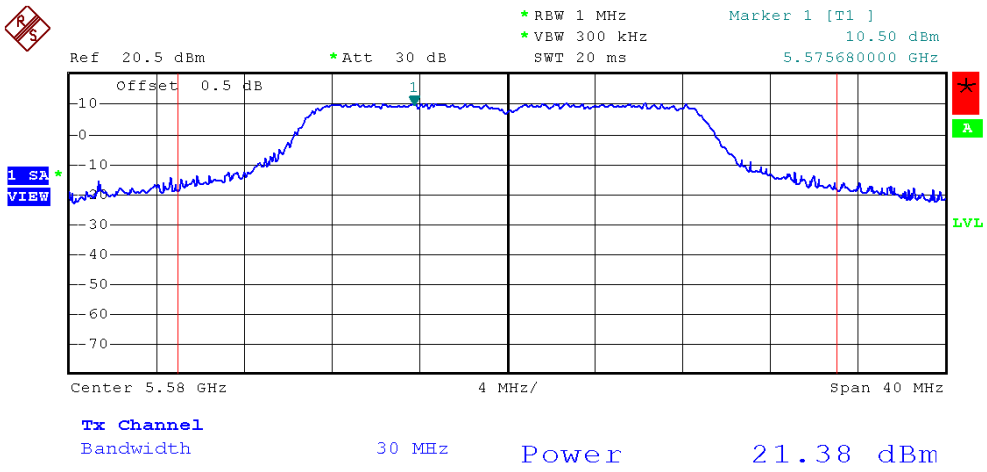
EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH100, CH116, CH140		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
100	5500	19.77	24.00	0.2512
116	5580	21.38	24.00	0.2512
140	5700	13.87	24.00	0.2512

CH100 (Port 0)

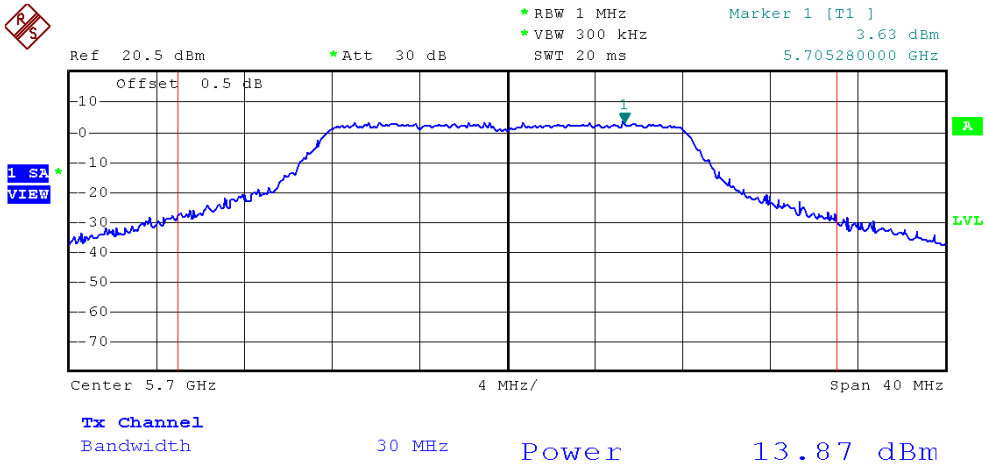


CH116 (Port 0)



Tx Channel
Bandwidth 30 MHz Power 21.38 dBm

CH140 (Port 0)



Tx Channel
Bandwidth 30 MHz Power 13.87 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100, CH116, CH140		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
100	5500	19.12	0.0817	0.00	0.0010
116	5580	20.45	0.1109	0.00	0.0010
140	5700	15.11	0.0324	0.00	0.0010

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
100	5500	19.06	0.0805	0.00	0.0010
116	5580	20.50	0.1122	0.00	0.0010
140	5700	14.98	0.0315	0.00	0.0010

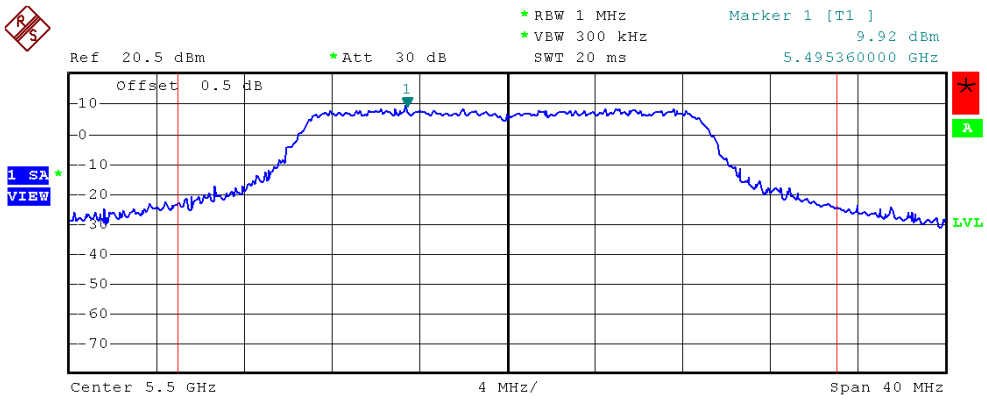
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
100	5500	22.10	0.1622	0.00	0.0010
116	5580	23.49	0.2231	0.00	0.0010
140	5700	18.06	0.0639	0.00	0.0010

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

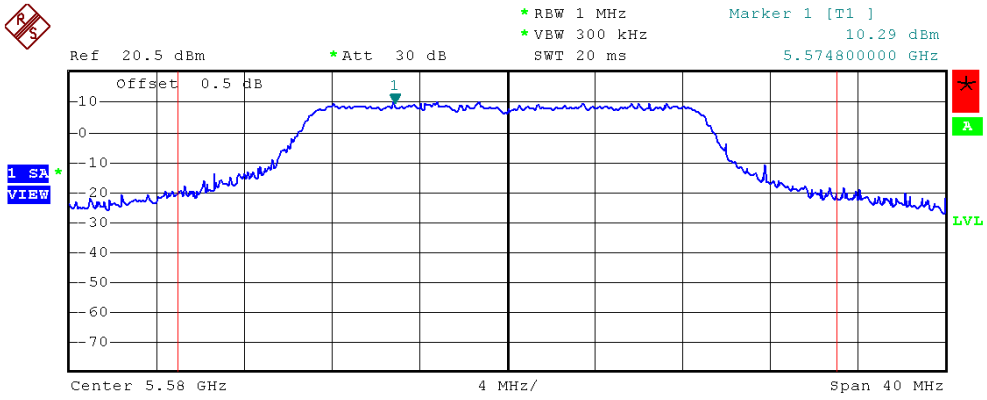
(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

CH100 (Port 0)



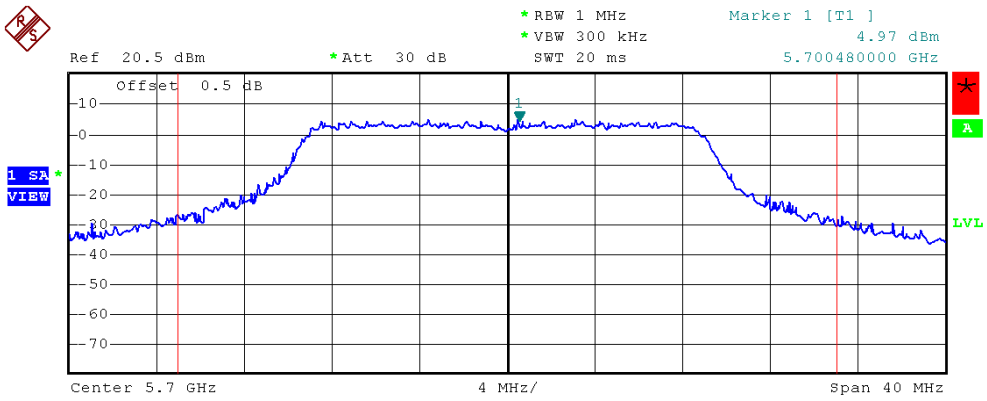
Tx Channel
Bandwidth 30 MHz Power 19.12 dBm

CH116 (Port 0)



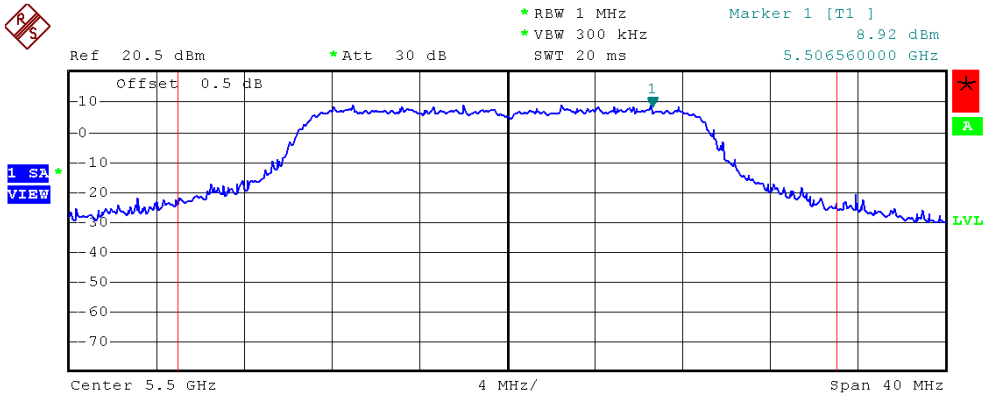
Tx Channel
Bandwidth 30 MHz Power 20.45 dBm

CH140 (Port 0)



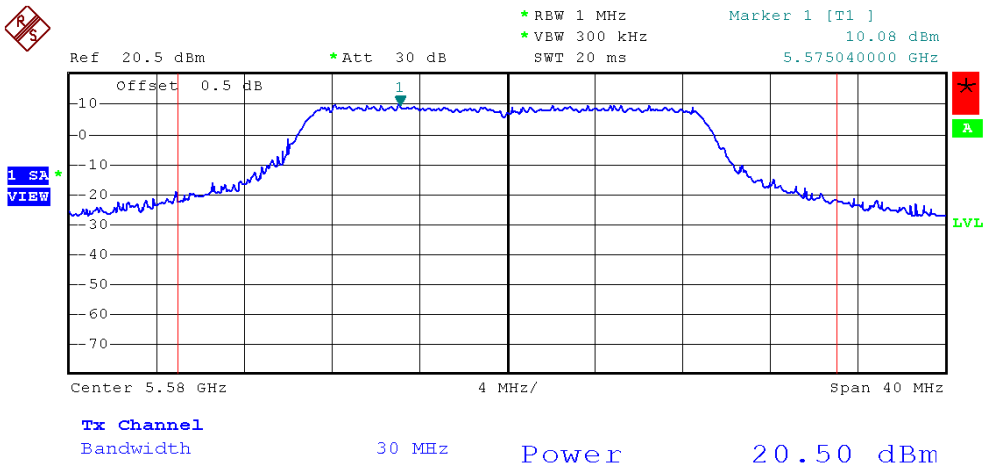
Tx Channel
Bandwidth 30 MHz Power 15.11 dBm

CH100 (Port 1)



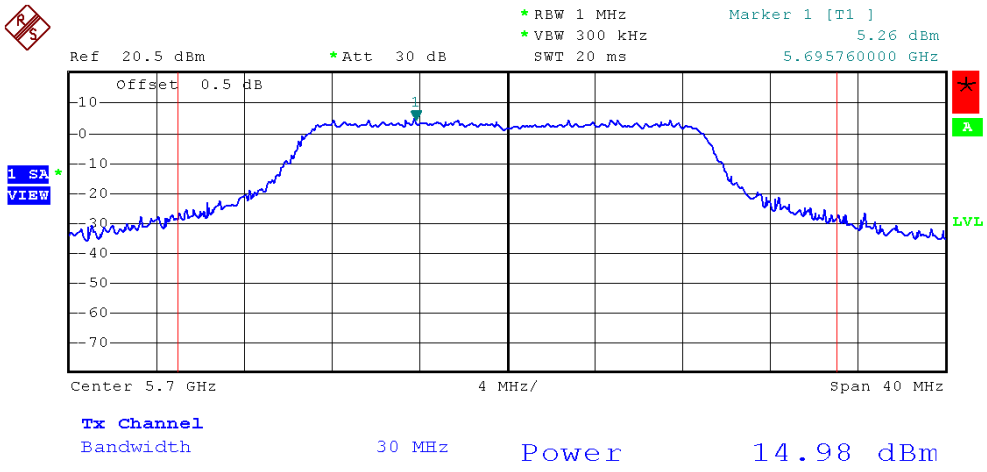
Tx Channel
Bandwidth 30 MHz Power 19.06 dBm

CH116 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 20.50 dBm

CH140 (Port 1)



Tx Channel
Bandwidth 30 MHz Power 14.98 dBm

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102, CH110, CH134		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
102	5510	15.57	0.0361	0.00	0.0010
110	5550	20.57	0.1140	0.00	0.0010
134	5670	17.96	0.0625	17.00	0.0501

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
102	5510	15.64	0.0366	0.00	0.0010
110	5550	20.60	0.1148	0.00	0.0010
134	5670	18.22	0.0664	17.00	0.0501

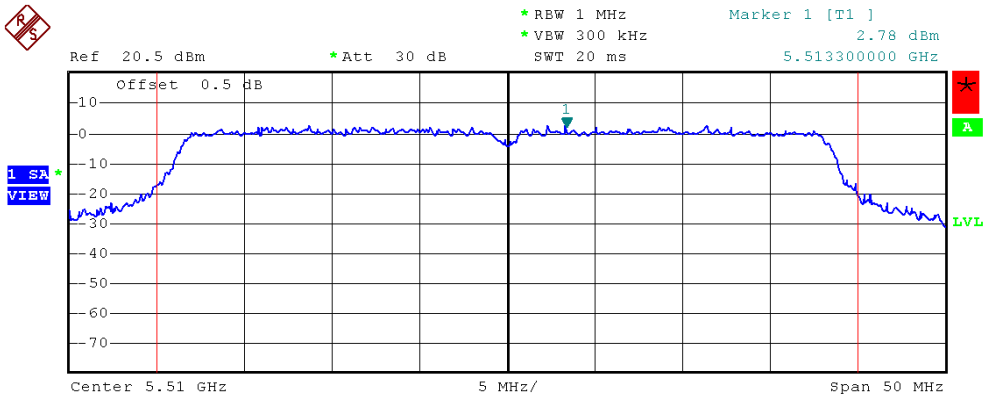
Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
102	5510	18.62	0.0727	0.00	0.0010
110	5550	23.60	0.2288	0.00	0.0010
134	5670	21.10	0.1289	17.00	0.0501

Remark：

(1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=2.67 dBi.** (Port. 0)
Antenna Gain=1.8 dBi. (Port. 1)

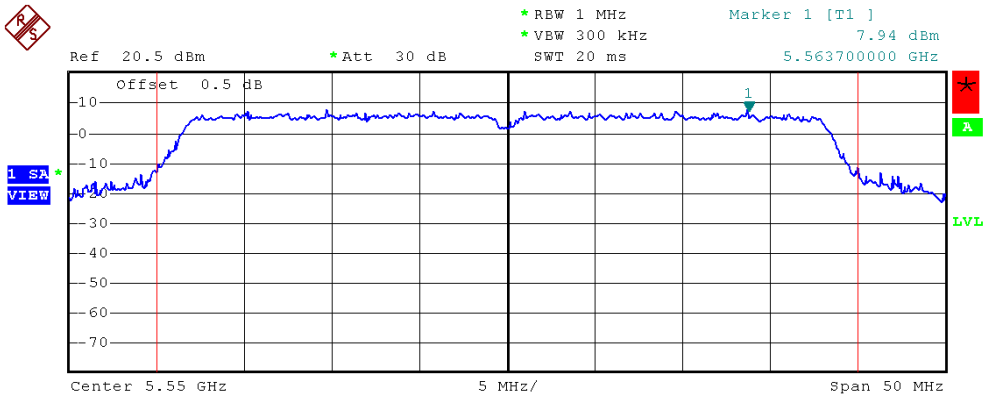
CH102 (Port 0)



Tx Channel

Bandwidth 40 MHz Power 15.57 dBm

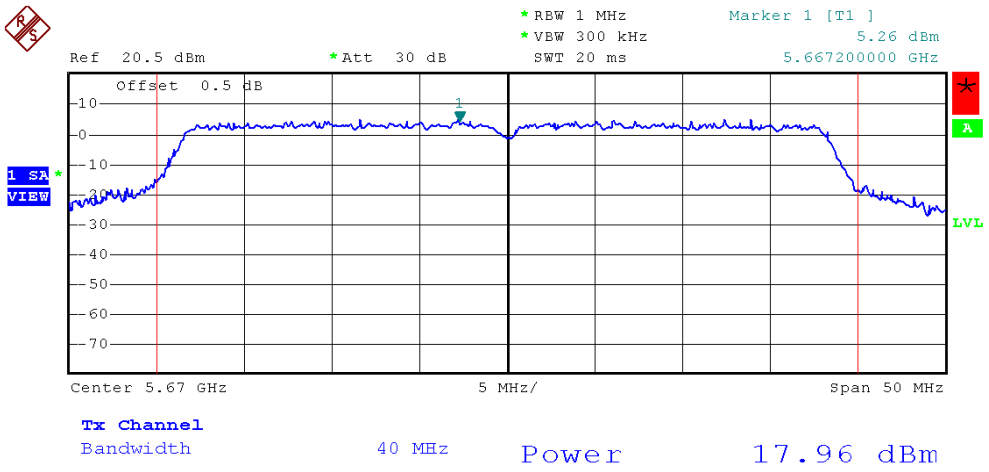
CH110 (Port 0)



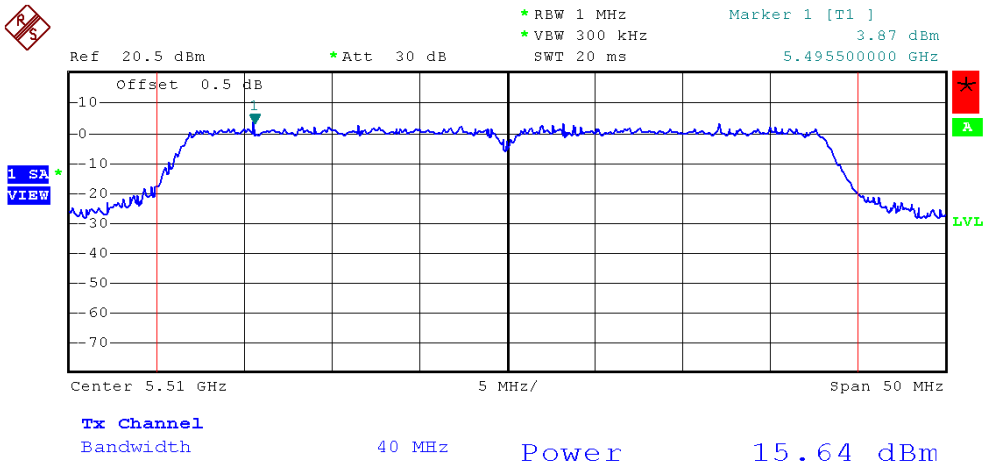
Tx Channel

Bandwidth 40 MHz Power 20.57 dBm

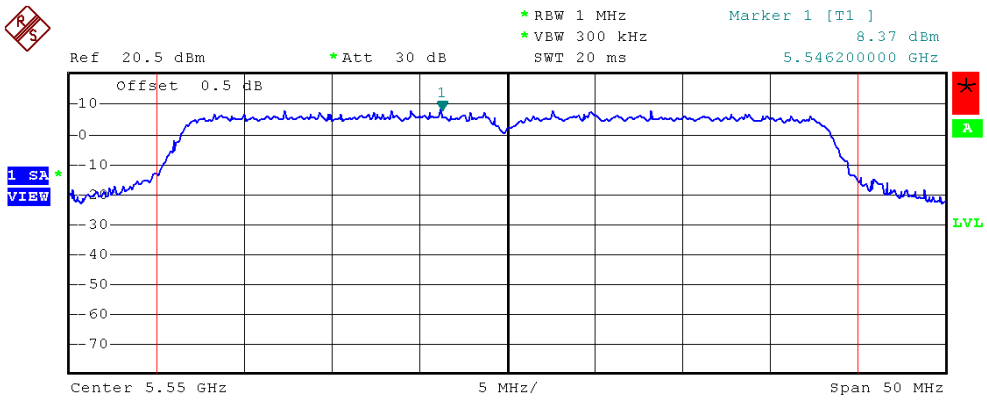
CH134 (Port 0)



CH102 (Port 1)

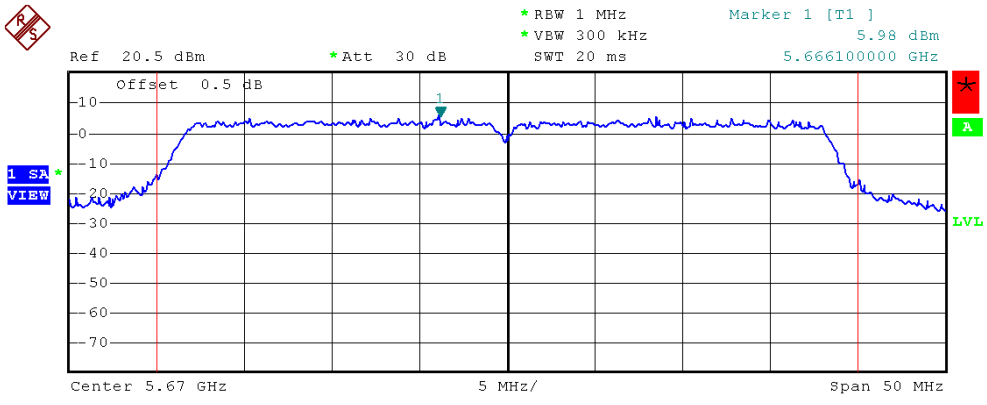


CH110 (Port 1)



Tx Channel
Bandwidth 40 MHz Power 20.60 dBm

CH134 (Port 1)



Tx Channel
Bandwidth 40 MHz Power 18.22 dBm

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	5150 - 5250 5250 - 5350 5470 - 5725 5725 - 5825	PASS

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 09, 2010

Remark: ” N/A” denotes No Model Name , Serial No. or No Calibration specified.

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	1000 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

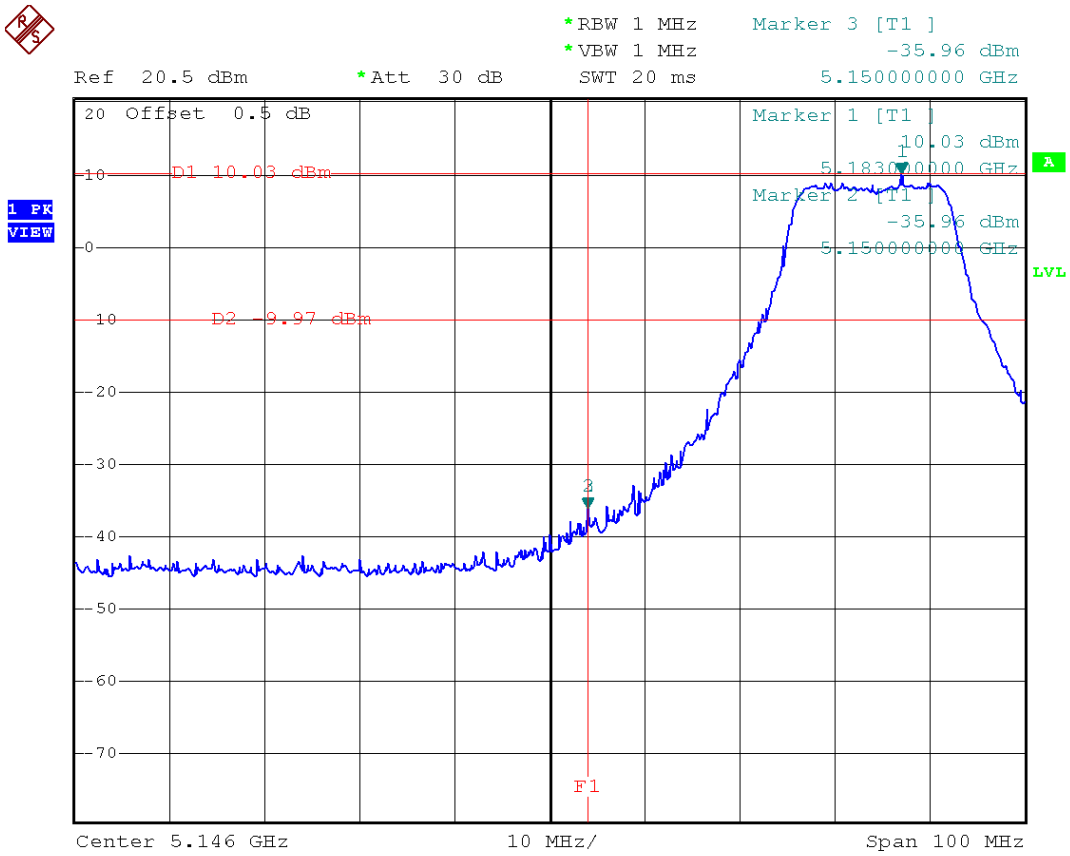
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

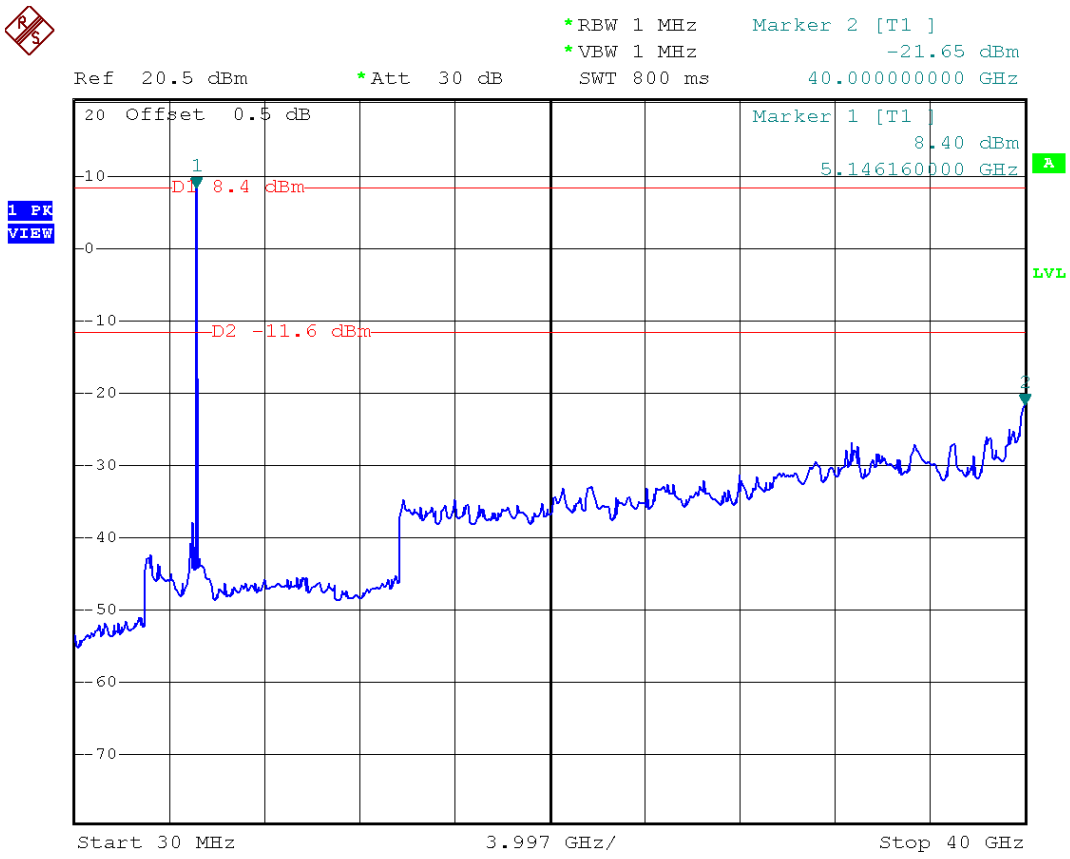
7.1.6 TEST RESULTS

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH36, CH48 (Port 0)		

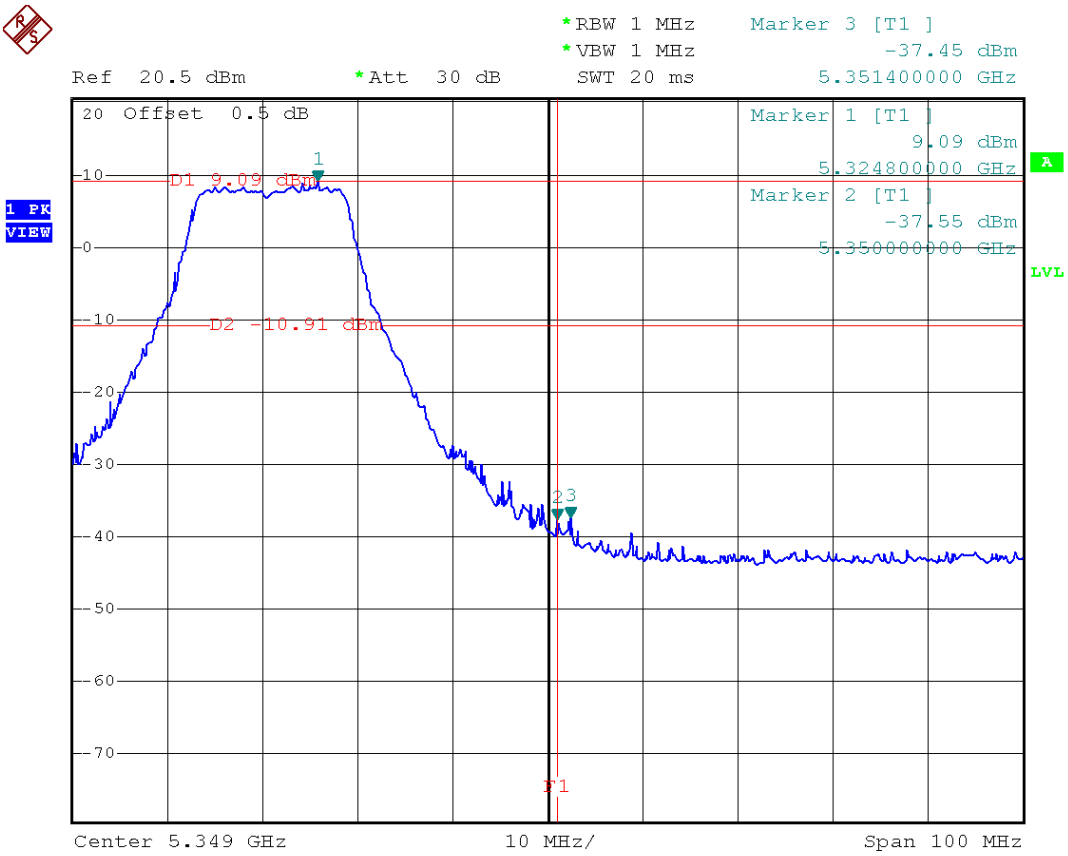
Channel of Worst Data: CH36,CH64			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150MHz	-35.96	5351.4MHz	-37.45
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

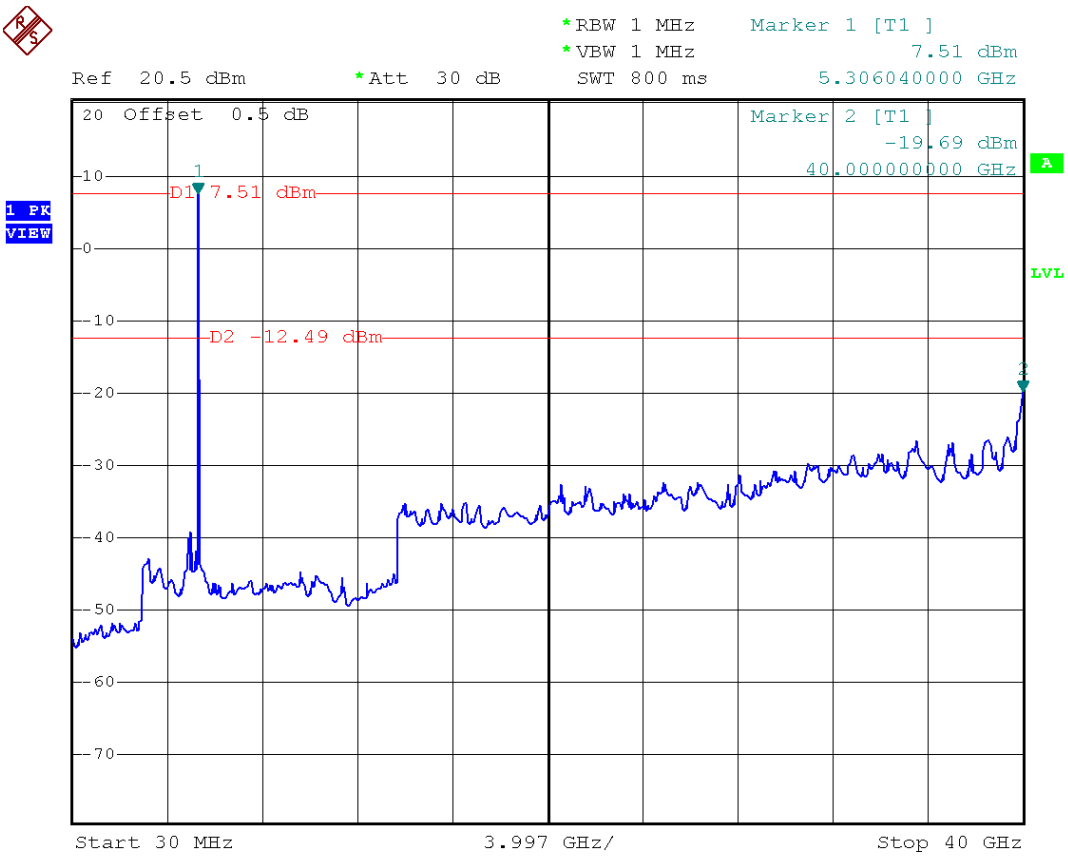
CH36


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-35.96 dBm
5.150000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
10.03 dBm
5.183000000 GHz
Marker 2 [T1]
-35.96 dBm
5.150000000 GHz
D1 10.03 dBm
D2 -9.97 dBm
1 PK
VIEW
A
LVL
F1
Center 5.146 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.65 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
8.40 dBm
5.146160000 GHz
D1 8.4 dBm
D2 -11.6 dBm
1 PK
VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH64

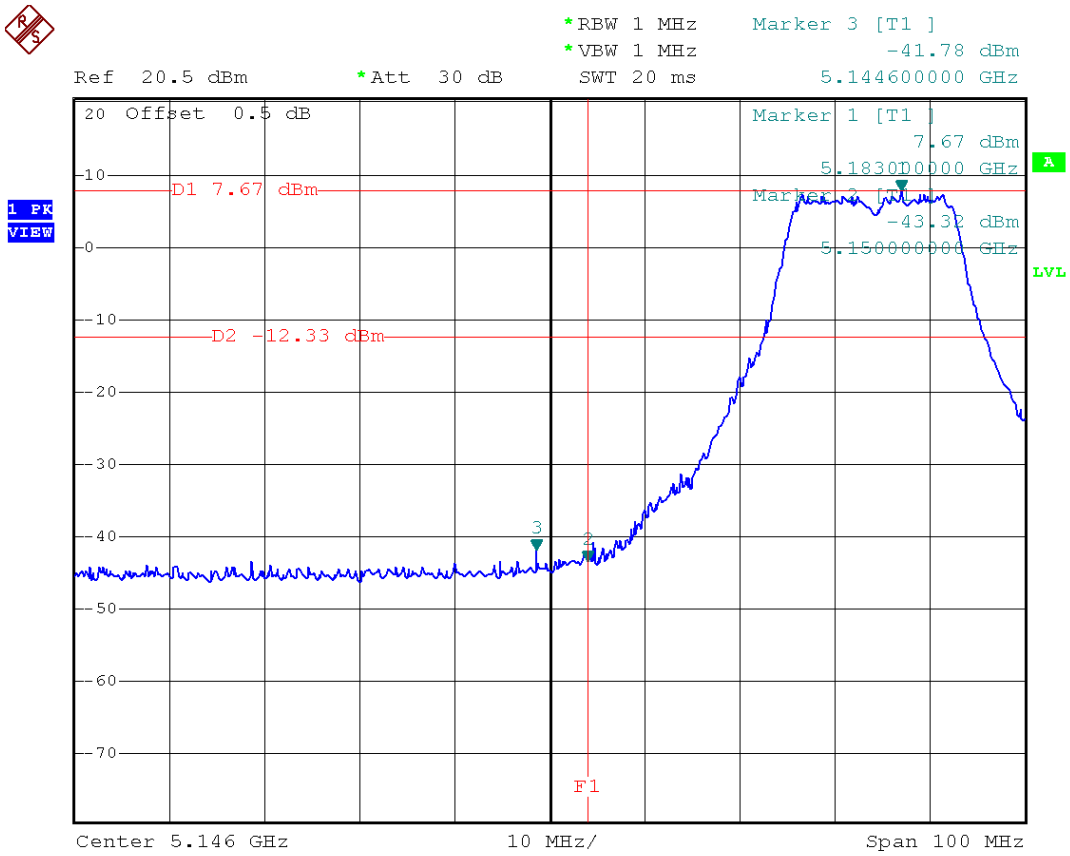

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-37.45 dBm
5.351400000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
9.09 dBm
5.324800000 GHz
Marker 2 [T1]
-37.55 dBm
5.350000000 GHz
D1 9.09 dBm
D2 -10.91 dBm
1 PK VIEW
A
LVL
Center 5.349 GHz
10 MHz/
Span 100 MHz

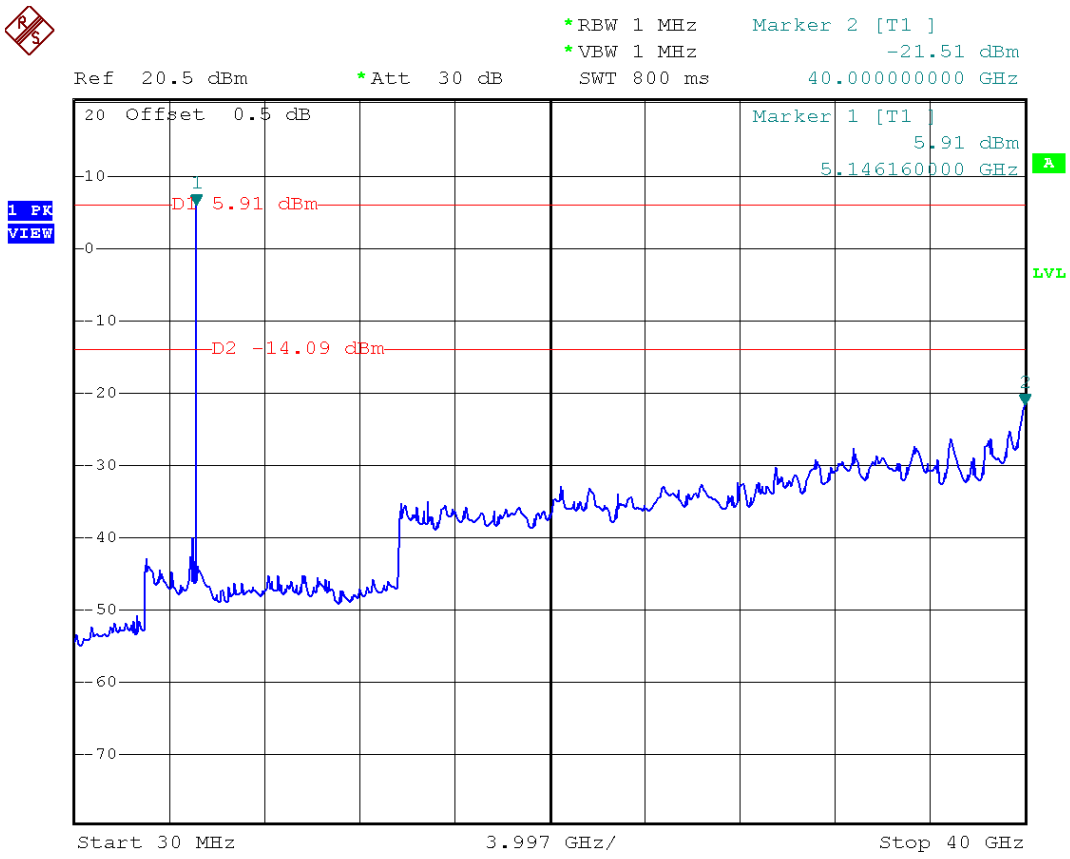

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 1 [T1]
7.51 dBm
5.306040000 GHz
20 Offset 0.5 dB
Marker 2 [T1]
-19.69 dBm
40.000000000 GHz
D1 7.51 dBm
D2 -12.49 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36, CH64 (Port 0)		

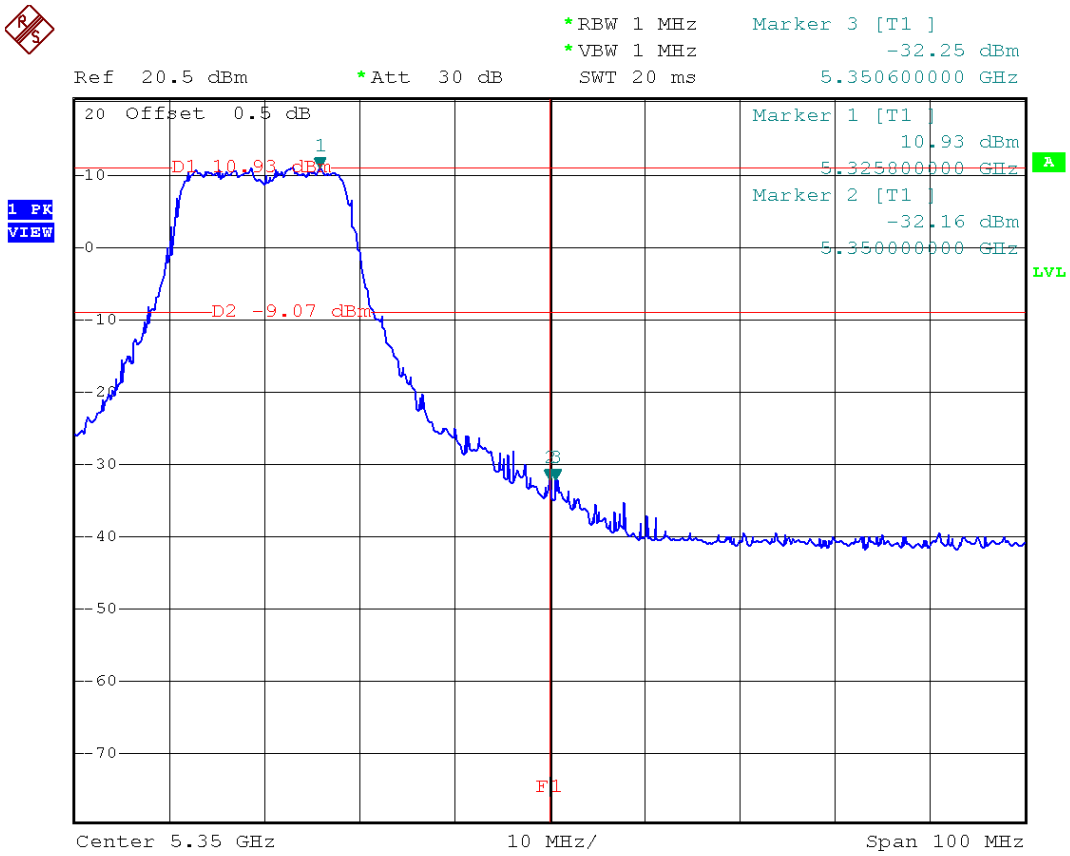
Channel of Worst Data: CH36,CH64 (Port 0)			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5144.6MHz	-41.78	5350.6MHz	-32.25
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

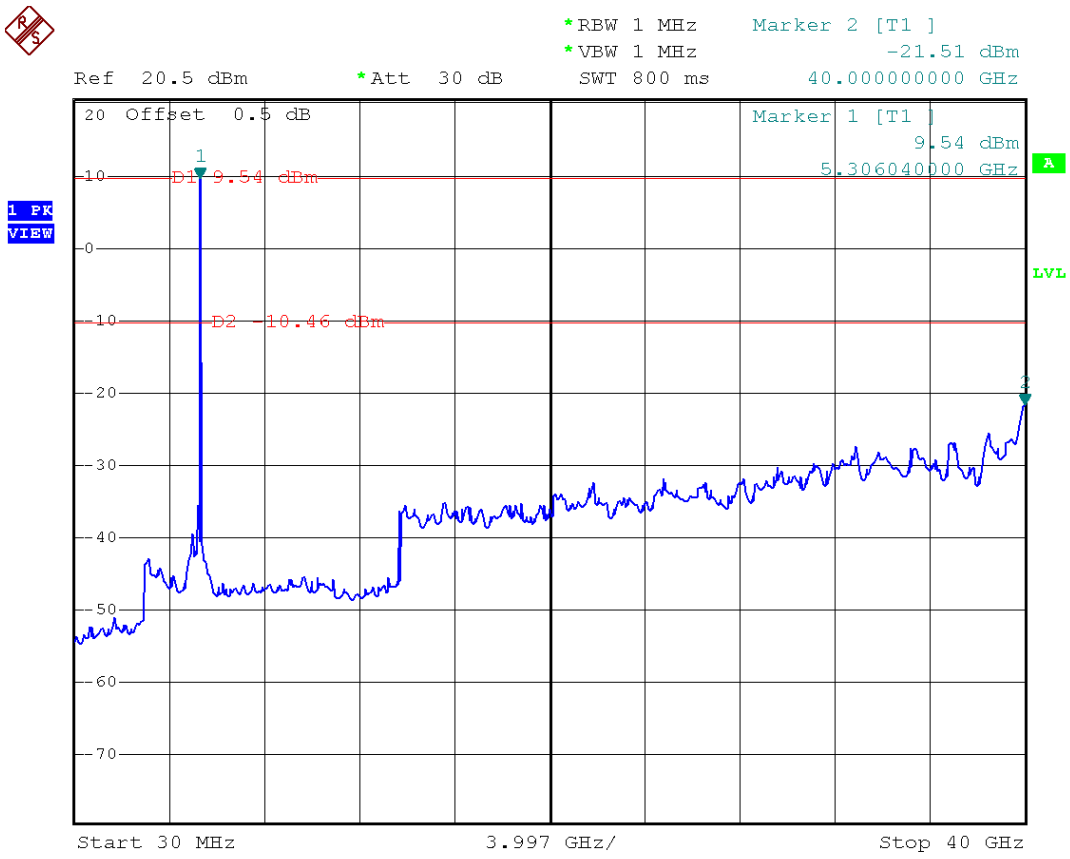
CH36


*RBW 1 MHz
*VBW 1 MHz
Marker 3 [T1]
-41.78 dBm
5.144600000 GHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
20 Offset 0.5 dB
Marker 1 [T1]
7.67 dBm
5.18300000 GHz
D1 7.67 dBm
Marker 2 [T1]
-43.32 dBm
5.15000000 GHz
D2 -12.33 dBm
1 PK
VIEW
A
LVL
F1
Center 5.146 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Marker 2 [T1]
-21.51 dBm
40.000000000 GHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
20 Offset 0.5 dB
Marker 1 [T1]
5.91 dBm
5.14616000 GHz
D1 5.91 dBm
D2 -14.09 dBm
1 PK
VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH64

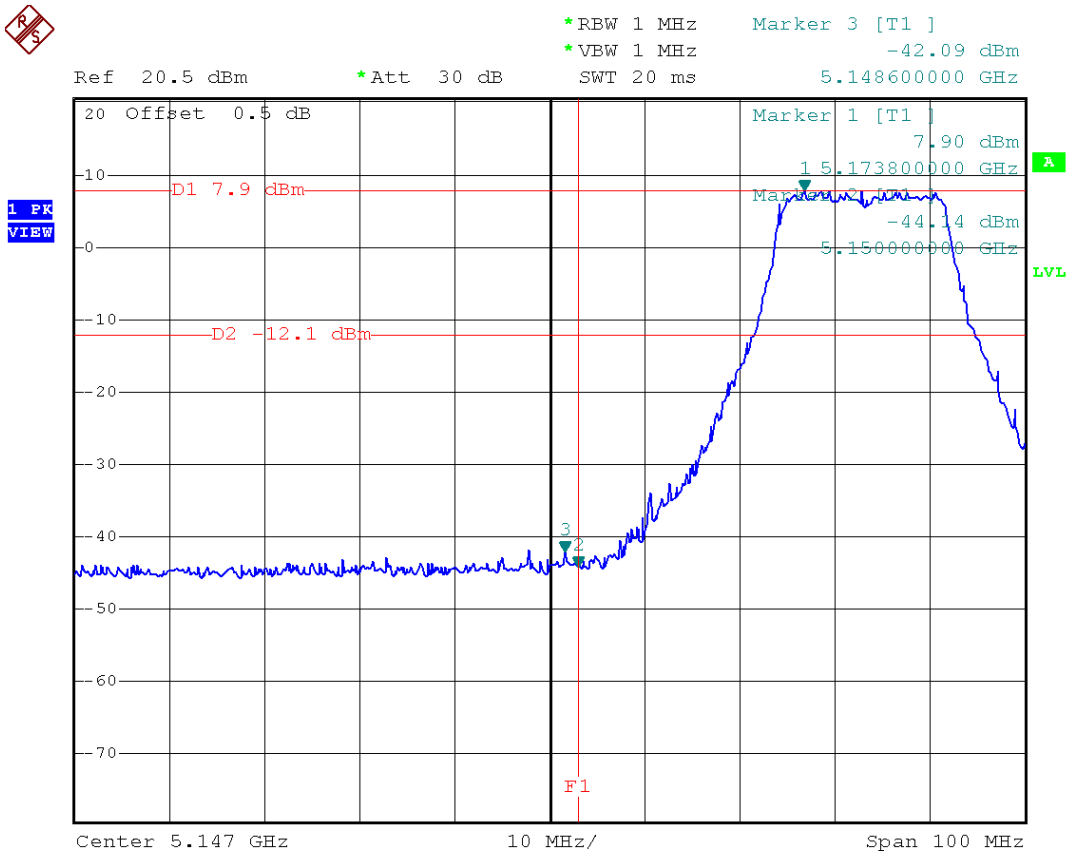

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-32.25 dBm
5.350600000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
10.93 dBm
5.325000000 GHz
Marker 2 [T1]
-32.16 dBm
5.350000000 GHz
D1 10.93 dBm
D2 -9.07 dBm
1 PK VIEW
A
LVL
Center 5.35 GHz
10 MHz/
Span 100 MHz

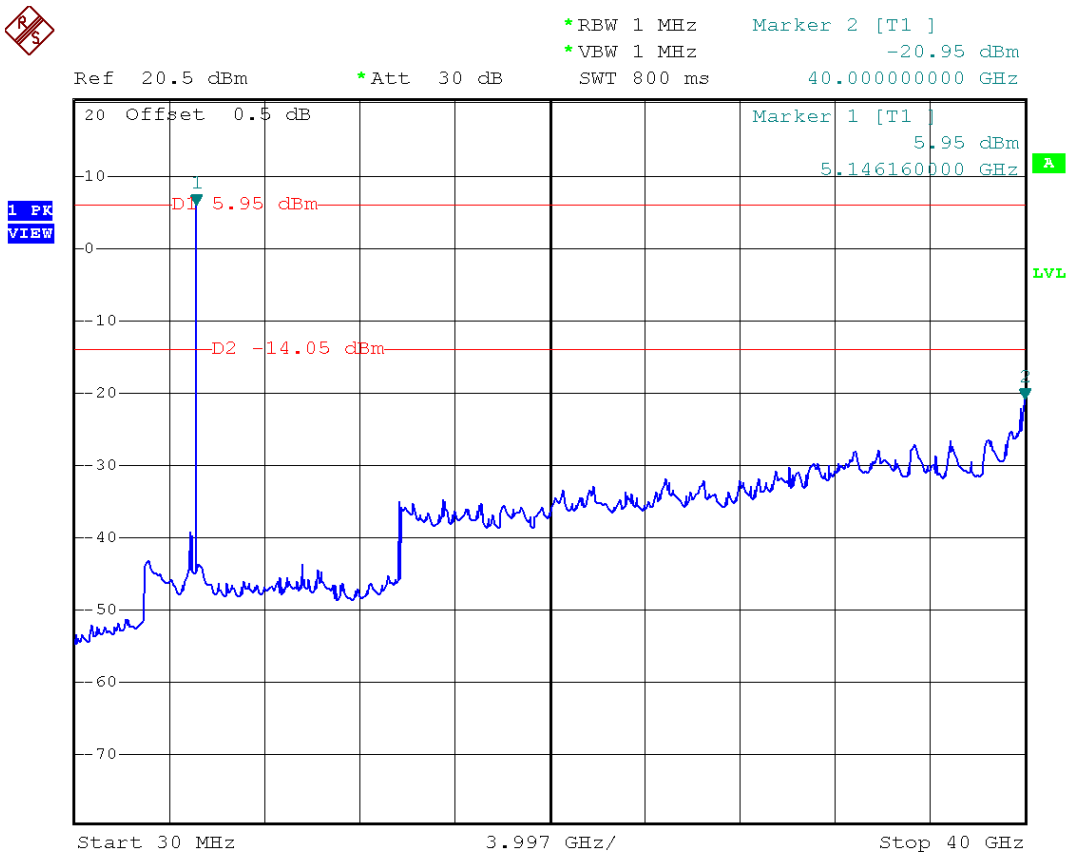

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.51 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
9.54 dBm
5.306040000 GHz
D1 9.54 dBm
D2 -10.46 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH36, CH64 (Port 1)		

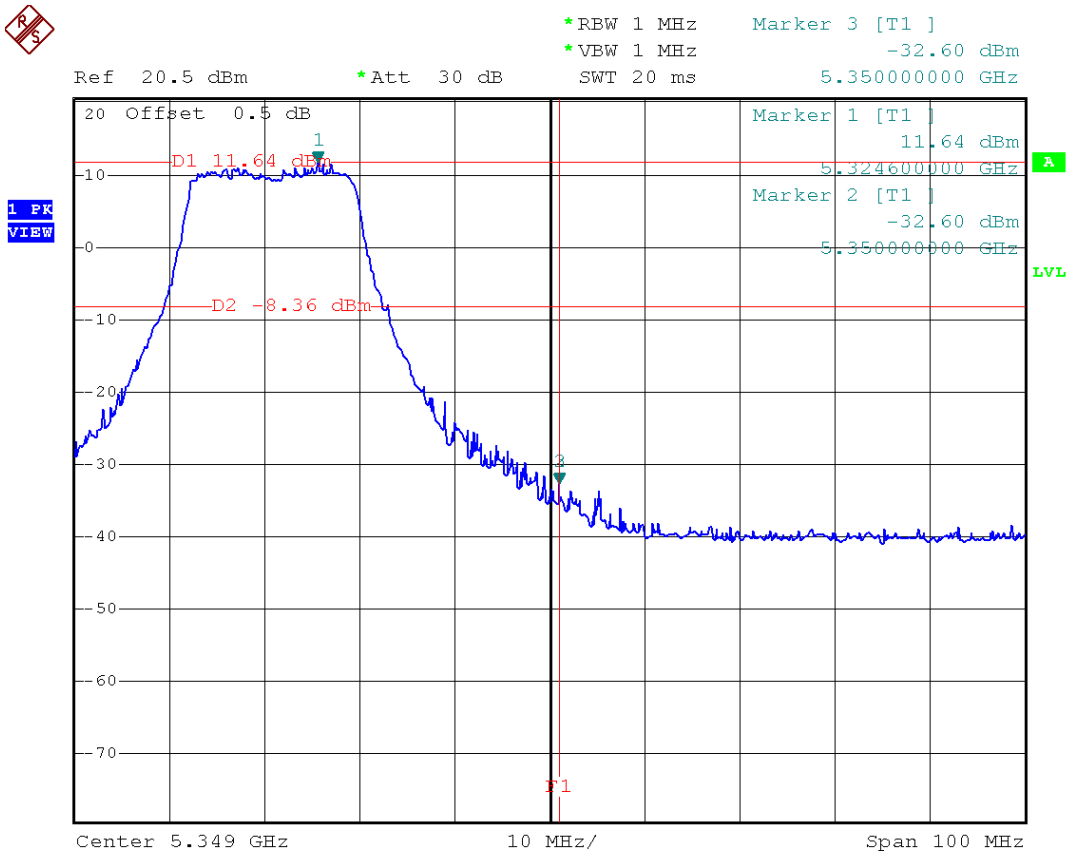
Channel of Worst Data: CH36,CH64			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5148.6MHz	-42.09	5350MHz	-32.6
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

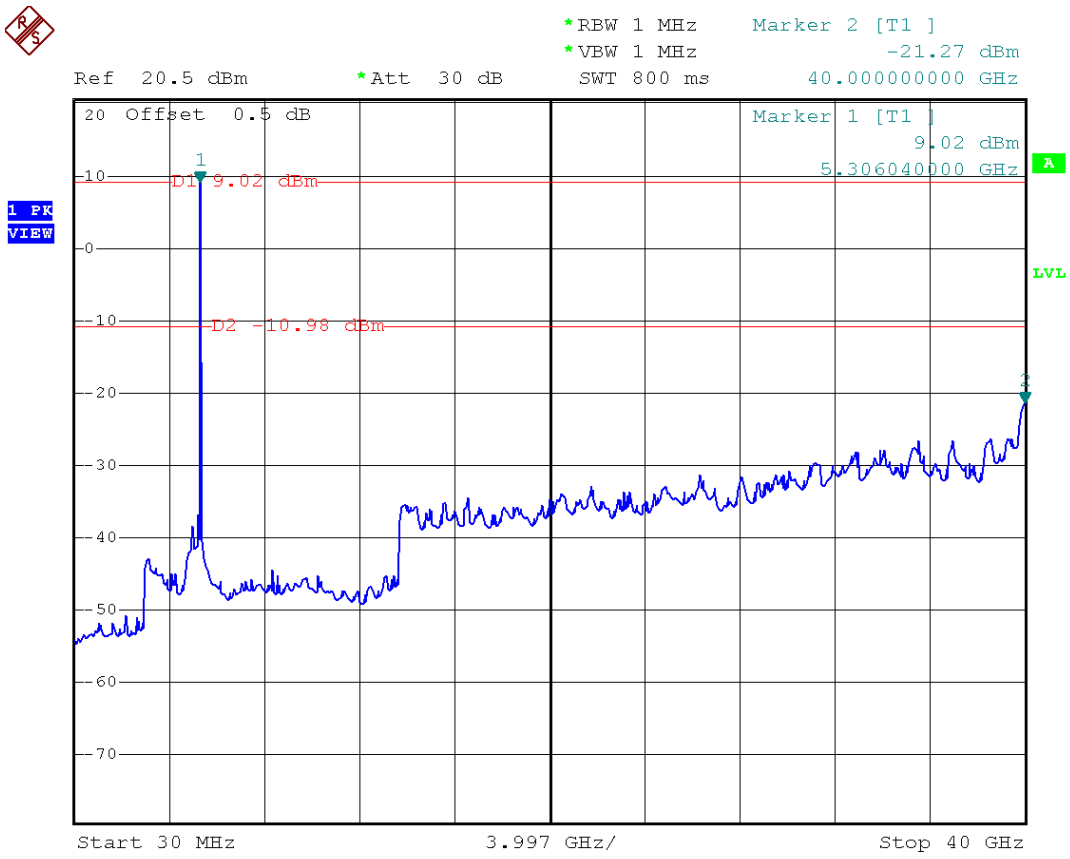
CH36


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-42.09 dBm
5.148600000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
7.90 dBm
5.173800000 GHz
Marker 2 [T1]
-44.14 dBm
5.150000000 GHz
D1 7.9 dBm
D2 -12.1 dBm
1 PK VIEW
A
LVL
F1
Center 5.147 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-20.95 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
5.95 dBm
5.146160000 GHz
D1 5.95 dBm
D2 -14.05 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH64

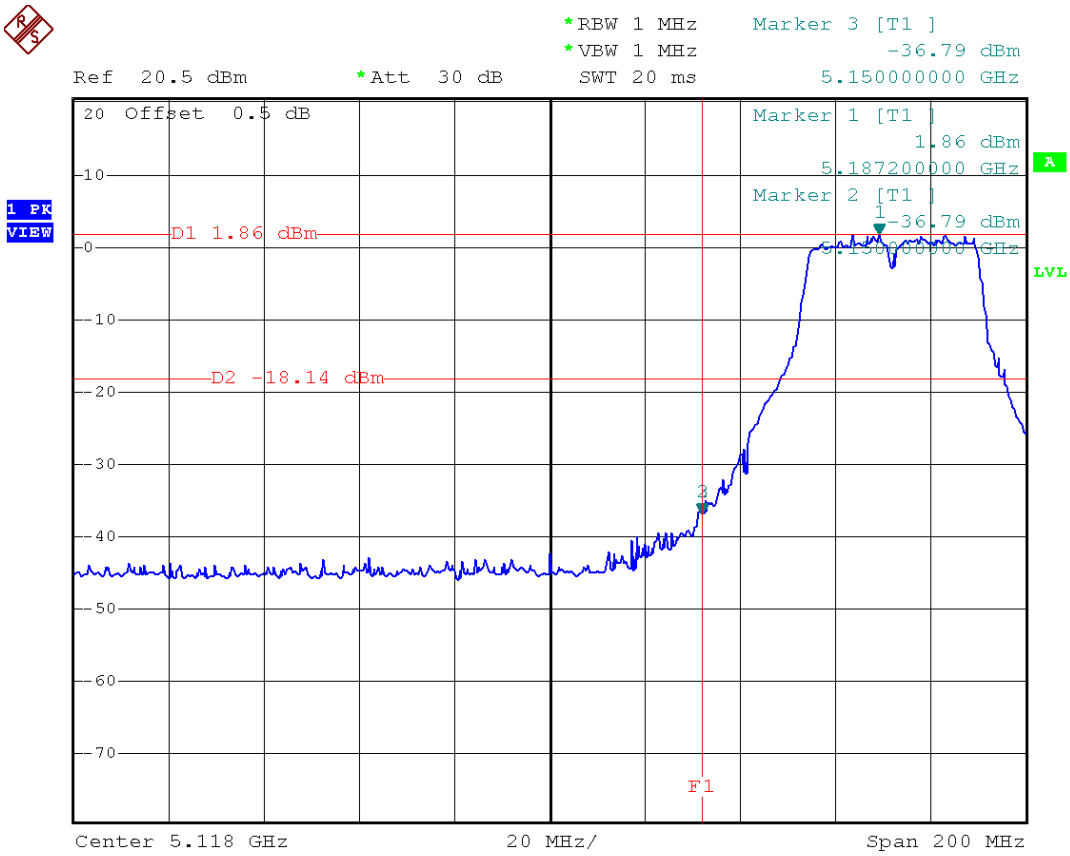

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-32.60 dBm
5.350000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
11.64 dBm
5.324600000 GHz
Marker 2 [T1]
-32.60 dBm
5.350000000 GHz
D1 11.64 dBm
D2 -8.36 dBm
1 PK VIEW
A
LVL
Center 5.349 GHz
10 MHz/
Span 100 MHz

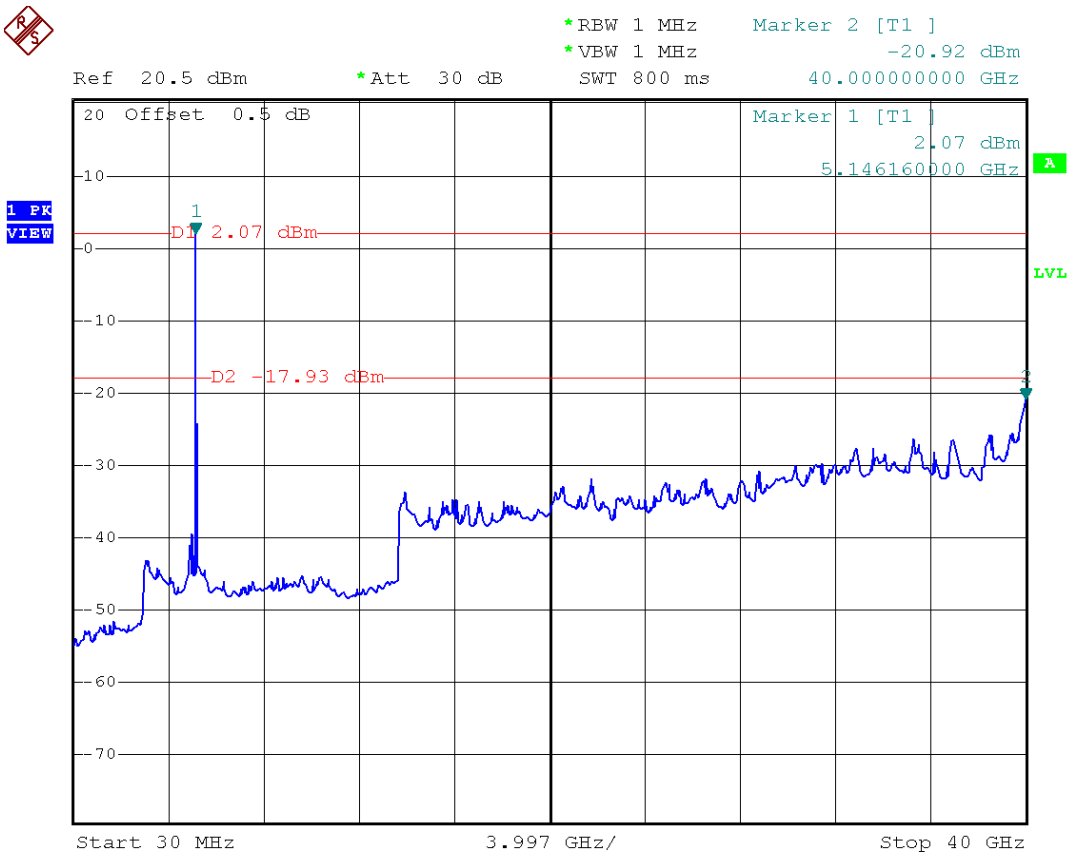

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.27 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
9.02 dBm
5.306040000 GHz
D1 9.02 dBm
D2 -10.98 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38, CH62 (Port 0)		

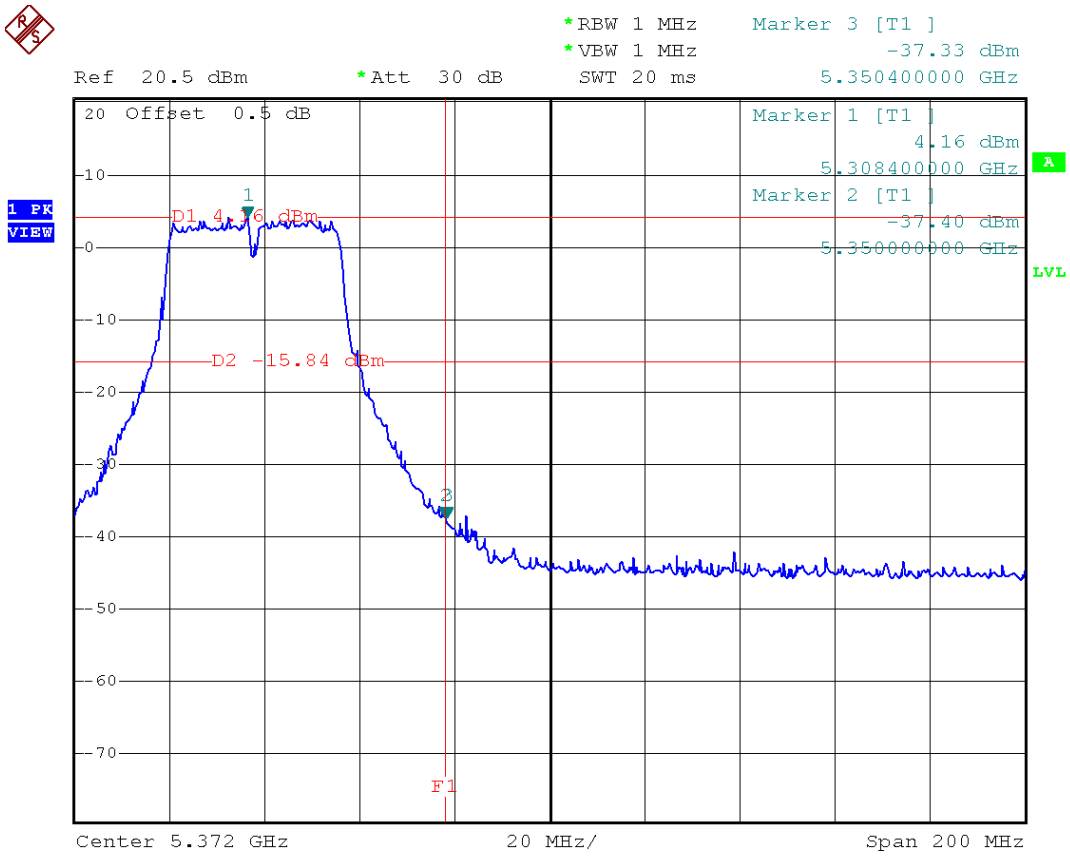
Channel of Worst Data: CH38,CH62			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150MHz	-36.79	5350.4MHz	-37.33
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

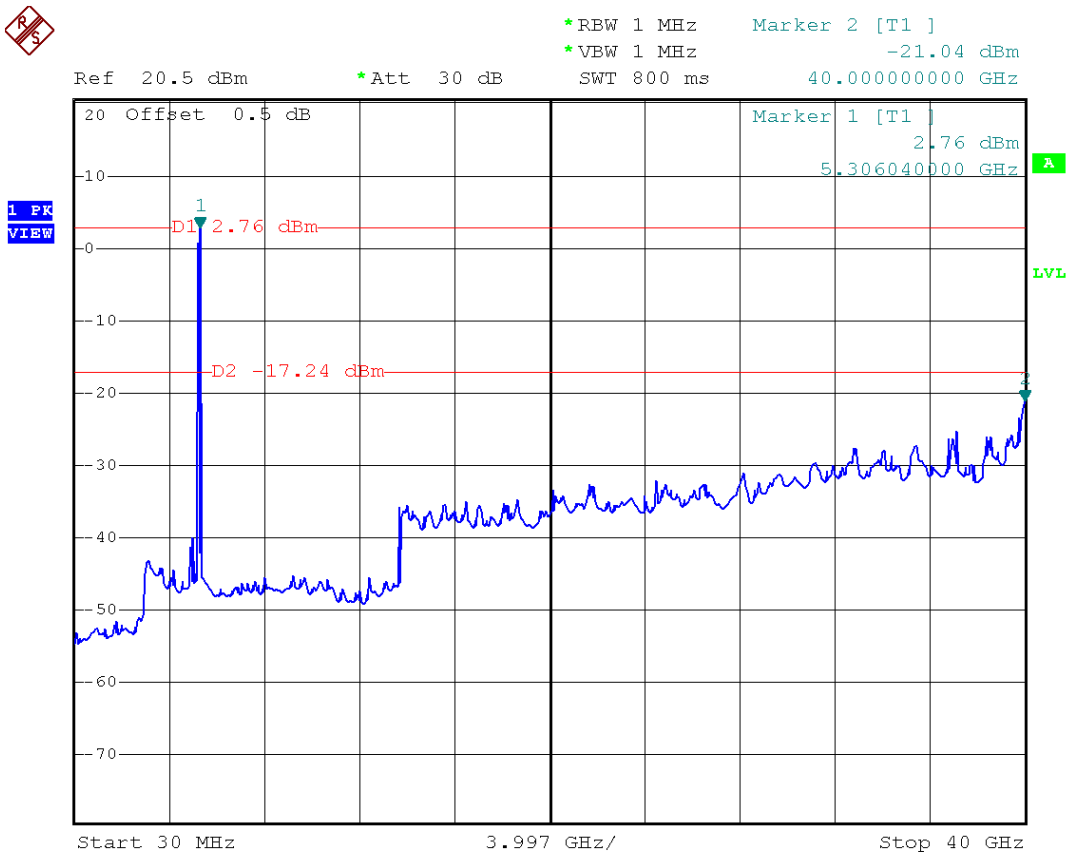
CH38


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-36.79 dBm
5.150000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
1.86 dBm
5.187200000 GHz
Marker 2 [T1]
-36.79 dBm
5.150000000 GHz
1 PK VIEW
D1 1.86 dBm
D2 -18.14 dBm
A
LVL
F1
Center 5.118 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-20.92 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
2.07 dBm
5.146160000 GHz
1 PK VIEW
D1 2.07 dBm
D2 -17.93 dBm
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH62

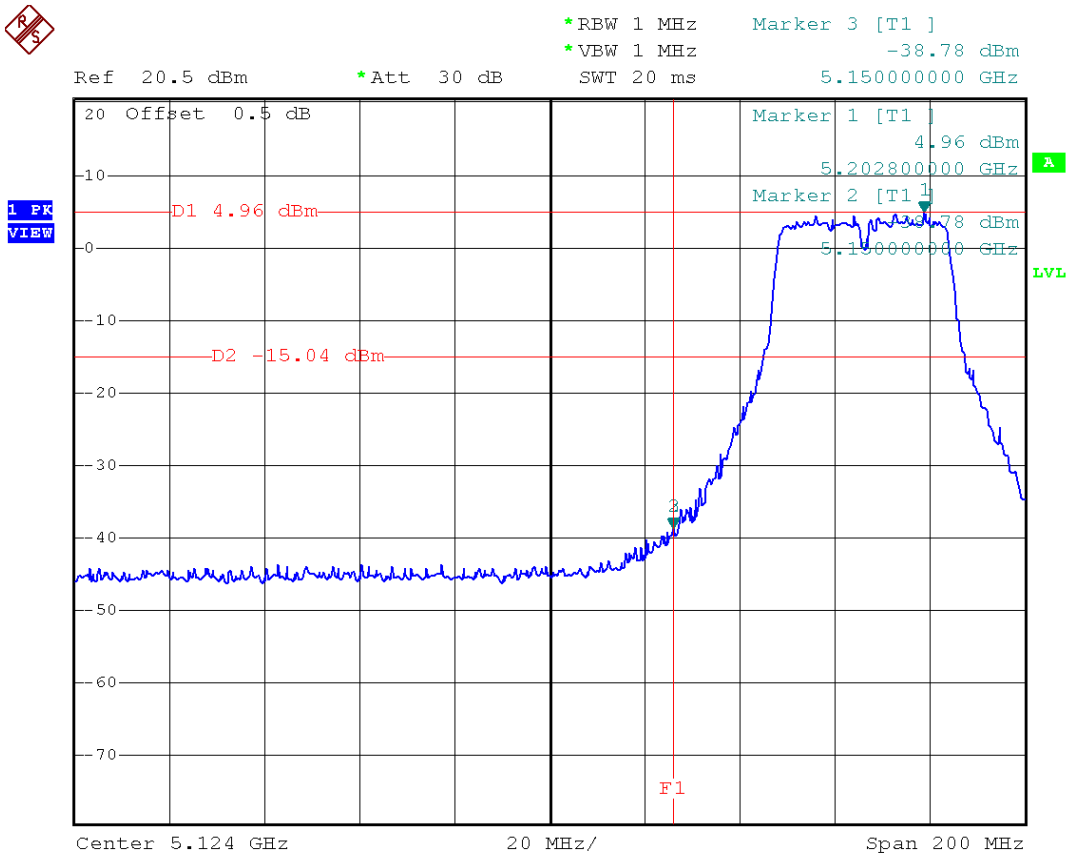

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-37.33 dBm
5.350400000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
4.16 dBm
5.308400000 GHz
Marker 2 [T1]
-37.40 dBm
5.350000000 GHz
1 PK VIEW
A
LVL
D1 4.16 dBm
D2 -15.84 dBm
F1
Center 5.372 GHz
20 MHz/
Span 200 MHz

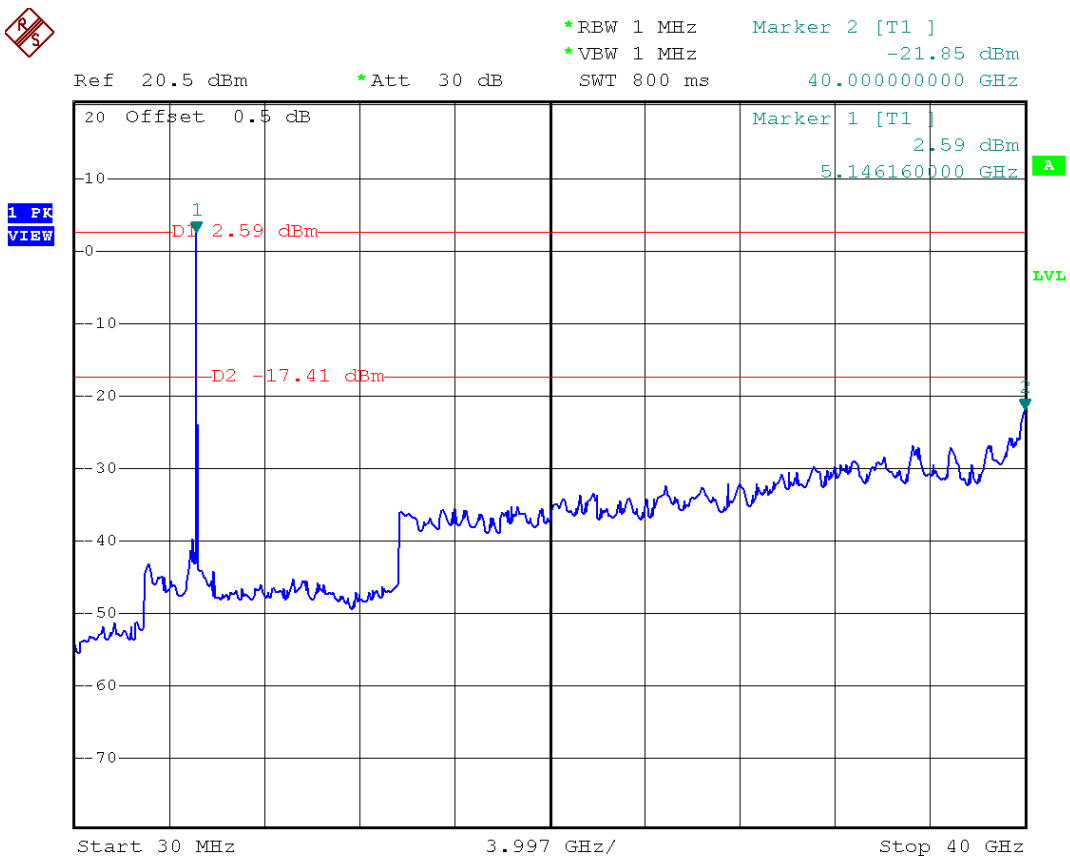

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.04 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
2.76 dBm
5.306040000 GHz
1 PK VIEW
A
LVL
D1 2.76 dBm
D2 -17.24 dBm
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH38, CH62 (Port 1)		

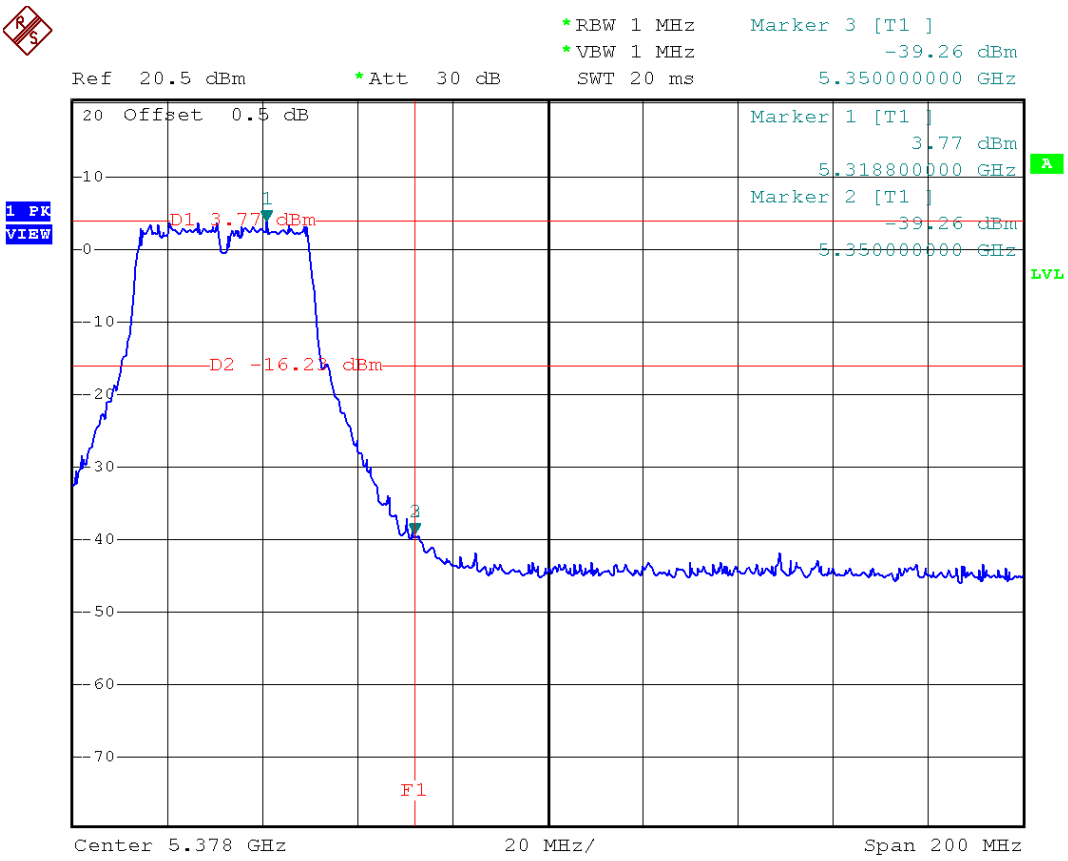
Channel of Worst Data: CH38,CH62			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150MHz	-38.78	5350MHz	-39.26
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

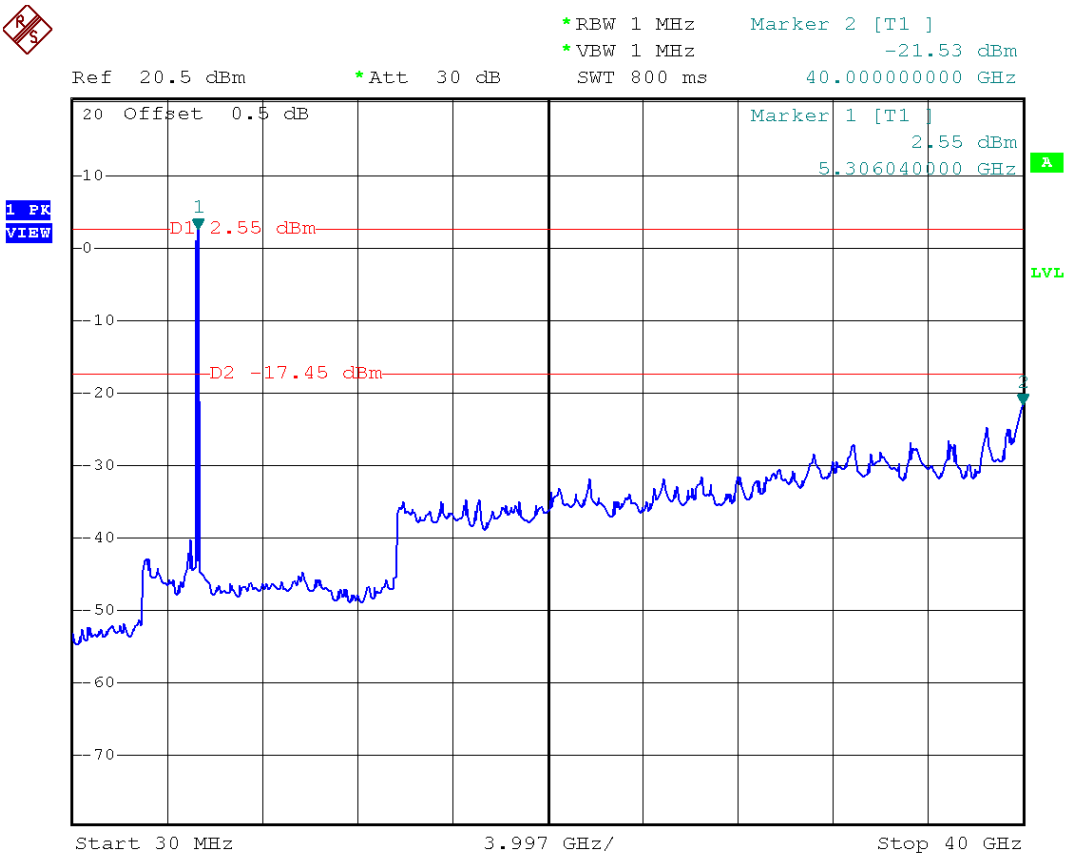
CH38


*RBW 1 MHz
*VBW 1 MHz
Marker 3 [T1]
-38.78 dBm
5.150000000 GHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
20 Offset 0.5 dB
Marker 1 [T1]
4.96 dBm
5.202800000 GHz
Marker 2 [T1]
-38.78 dBm
5.150000000 GHz
1 PK
VIEW
D1 4.96 dBm
D2 -15.04 dBm
A
LVL
F1
Center 5.124 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 1 MHz
Marker 2 [T1]
-21.85 dBm
40.000000000 GHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
20 Offset 0.5 dB
Marker 1 [T1]
2.59 dBm
5.146160000 GHz
1 PK
VIEW
D1 2.59 dBm
D2 -17.41 dBm
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH62

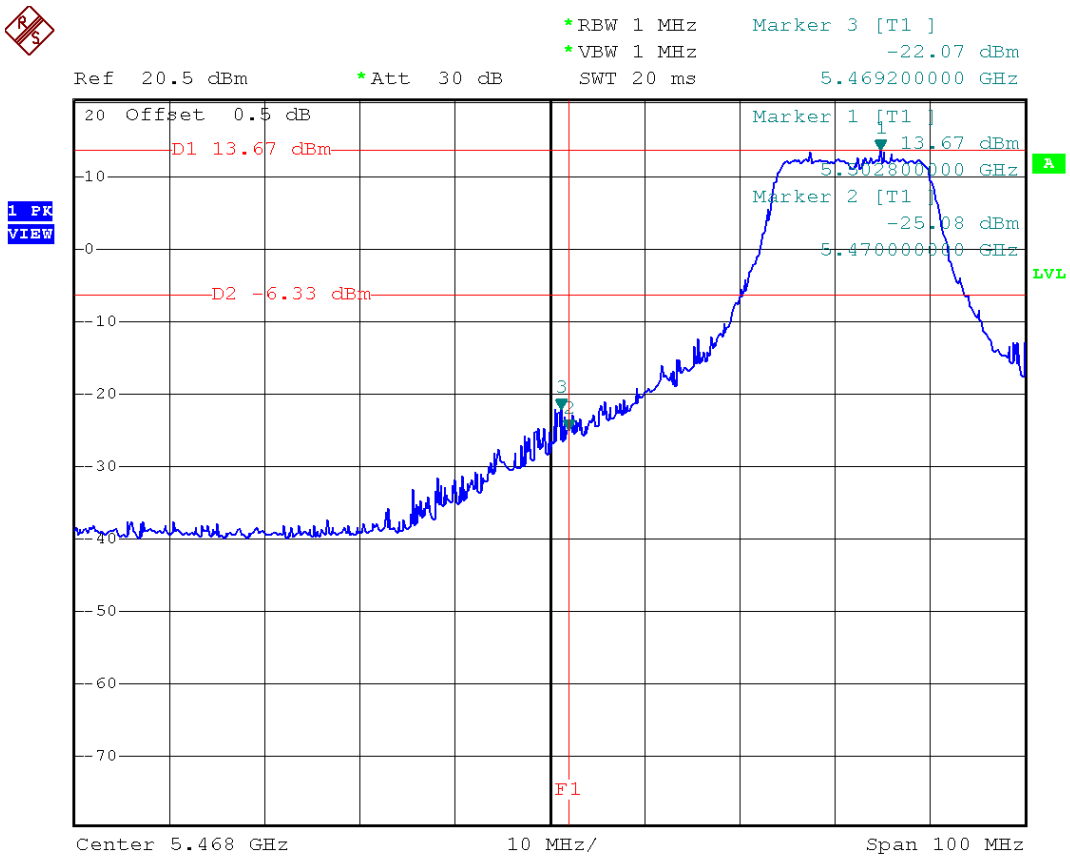

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-39.26 dBm
5.350000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
3.77 dBm
5.318800000 GHz
Marker 2 [T1]
-39.26 dBm
5.350000000 GHz
1 PK
VIEW
D1 3.77 dBm
D2 -16.23 dBm
A
LVL
F1
Center 5.378 GHz
20 MHz/
Span 200 MHz

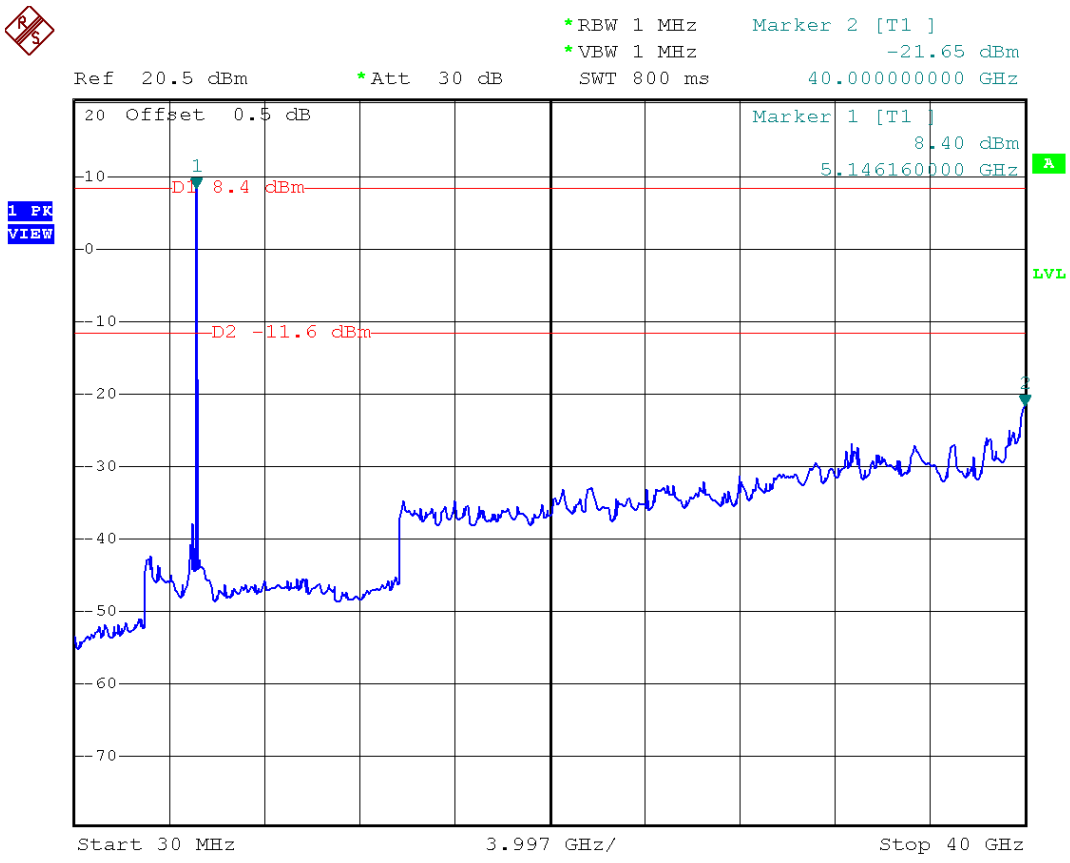

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.53 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
2.55 dBm
5.306040000 GHz
1 PK
VIEW
D1 2.55 dBm
D2 -17.45 dBm
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11a/CH100, CH140 (Port 0)		

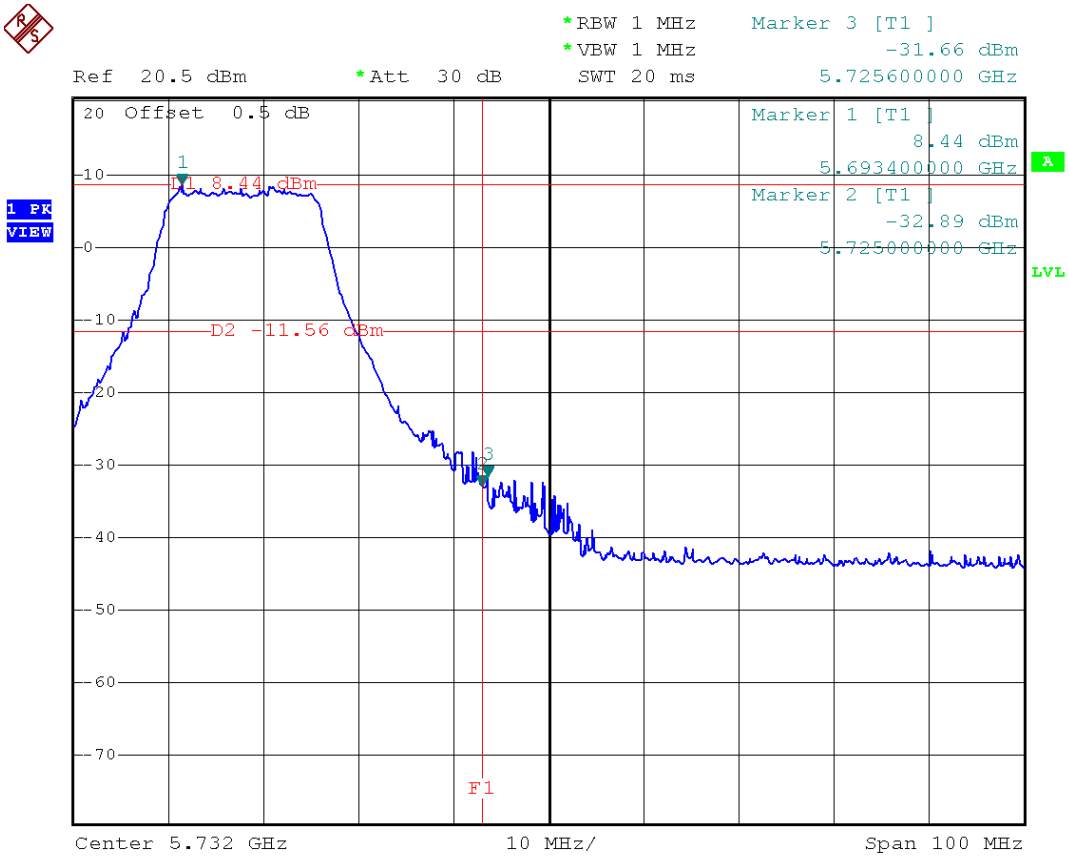
Channel of Worst Data: CH100,CH140			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5469.2MHz	-22.07	5725.6MHz	-31.66
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

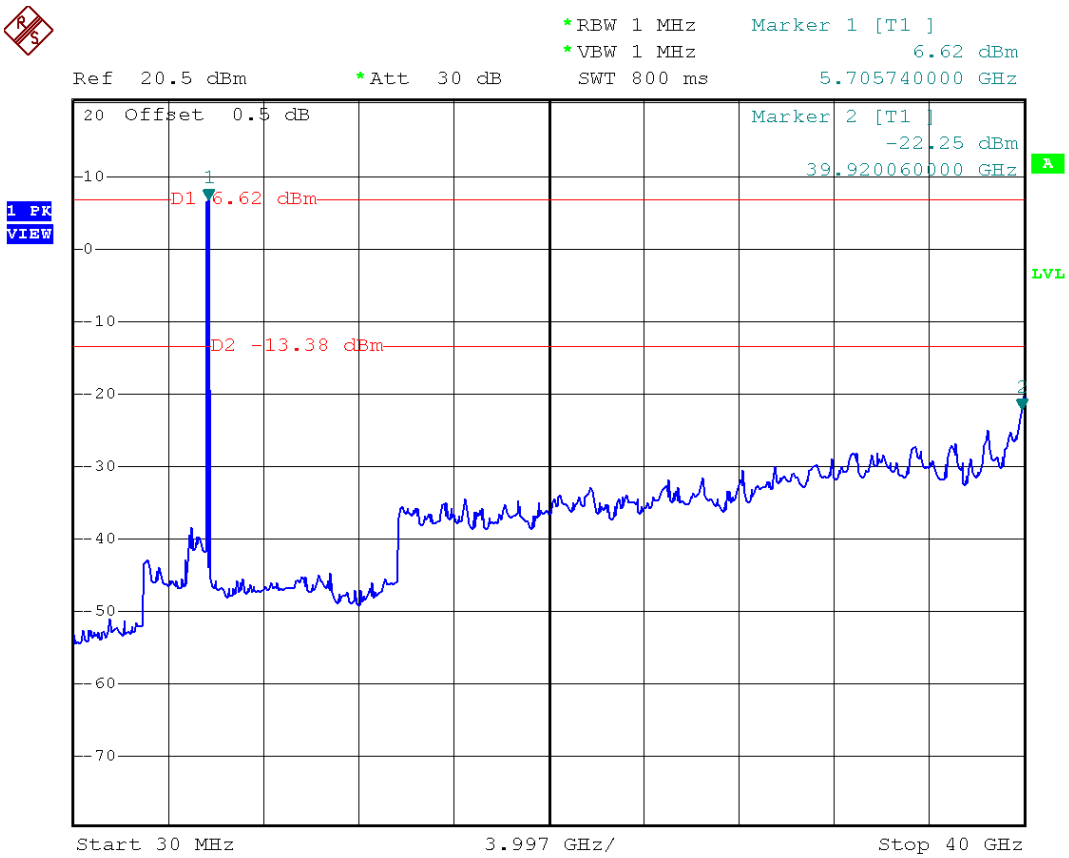
CH100


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-22.07 dBm
5.469200000 GHz
20 Offset 0.5 dB
D1 13.67 dBm
D2 -6.33 dBm
Marker 1 [T1]
13.67 dBm
5.502800000 GHz
Marker 2 [T1
-25.08 dBm
5.470000000 GHz
1 PK
VIEW
A
LVL
F1
Center 5.468 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.65 dBm
40.000000000 GHz
20 Offset 0.5 dB
D1 8.4 dBm
D2 -11.6 dBm
Marker 1 [T1]
8.40 dBm
5.146160000 GHz
1 PK
VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH140

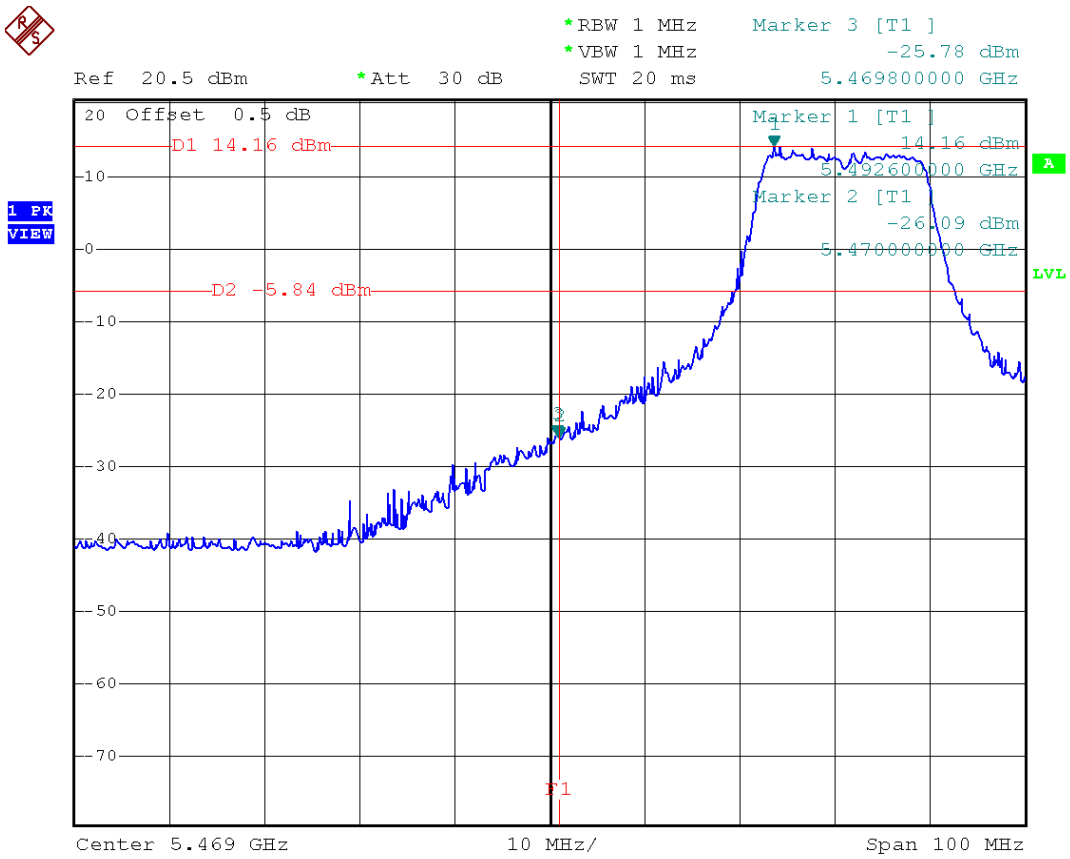

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-31.66 dBm
5.725600000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
8.44 dBm
5.693400000 GHz
Marker 2 [T1]
-32.89 dBm
5.725000000 GHz
D1 8.44 dBm
D2 -11.56 dBm
1 PK VIEW
A
LVL
F1
Center 5.732 GHz
10 MHz/
Span 100 MHz

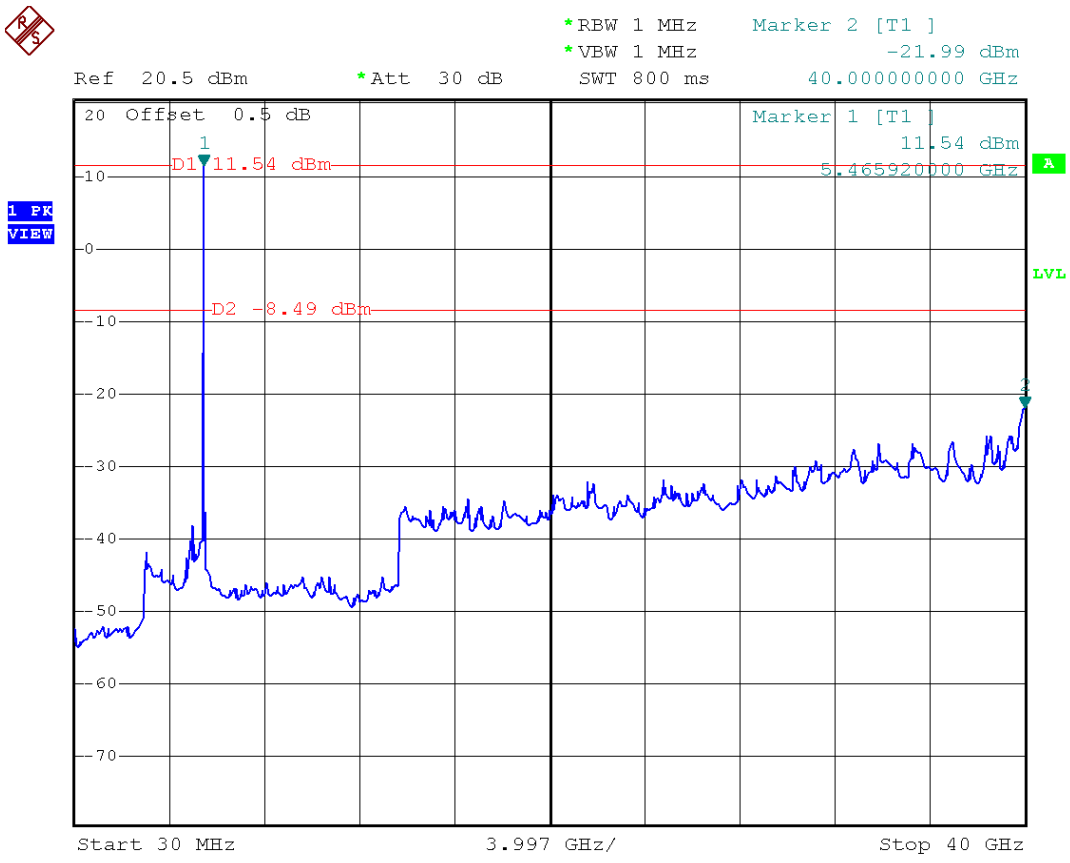

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 1 [T1]
6.62 dBm
5.705740000 GHz
20 Offset 0.5 dB
Marker 2 [T1]
-22.25 dBm
39.920060000 GHz
D1 6.62 dBm
D2 -13.38 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100, CH140 (Port 0)		

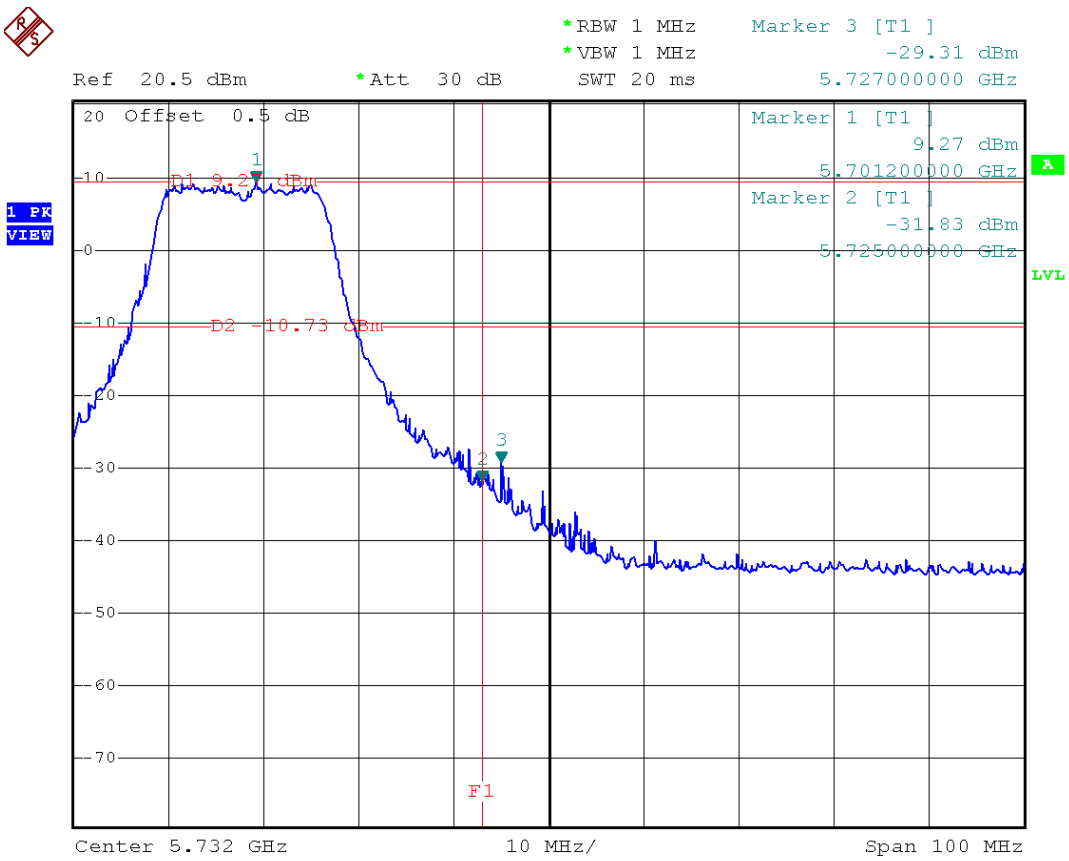
Channel of Worst Data: CH100,CH140			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5469.8MHz	-25.78	5727MHz	-29.31
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

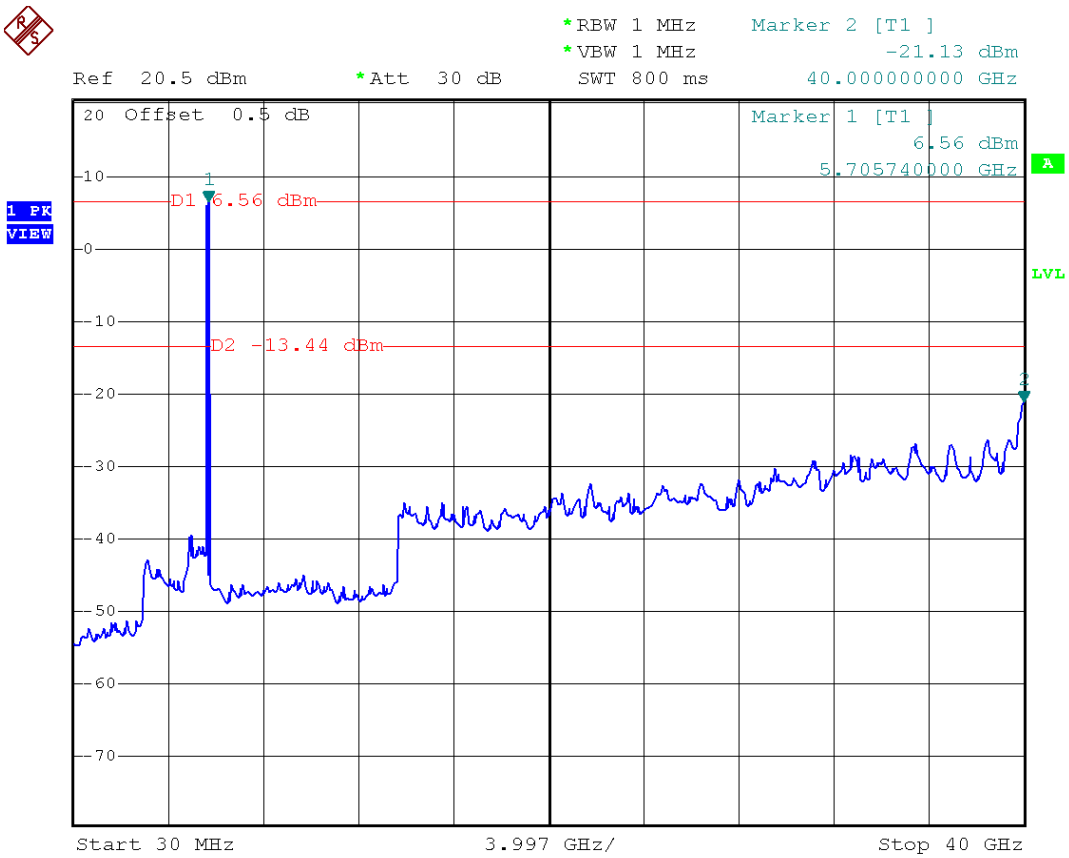
CH100


*RBW 1 MHz
*VBW 1 MHz
Marker 3 [T1]
-25.78 dBm
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
5.469800000 GHz
20 Offset 0.5 dB
D1 14.16 dBm
Marker 1 [T1]
14.16 dBm
5.492600000 GHz
Marker 2 [T1
-26.09 dBm
5.470000000 GHz
1 PK
VIEW
A
LVL
D2 -5.84 dBm
F1
Center 5.469 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Marker 2 [T1]
-21.99 dBm
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
11.54 dBm
5.465920000 GHz
D1 11.54 dBm
1 PK
VIEW
A
LVL
D2 -8.49 dBm
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH140

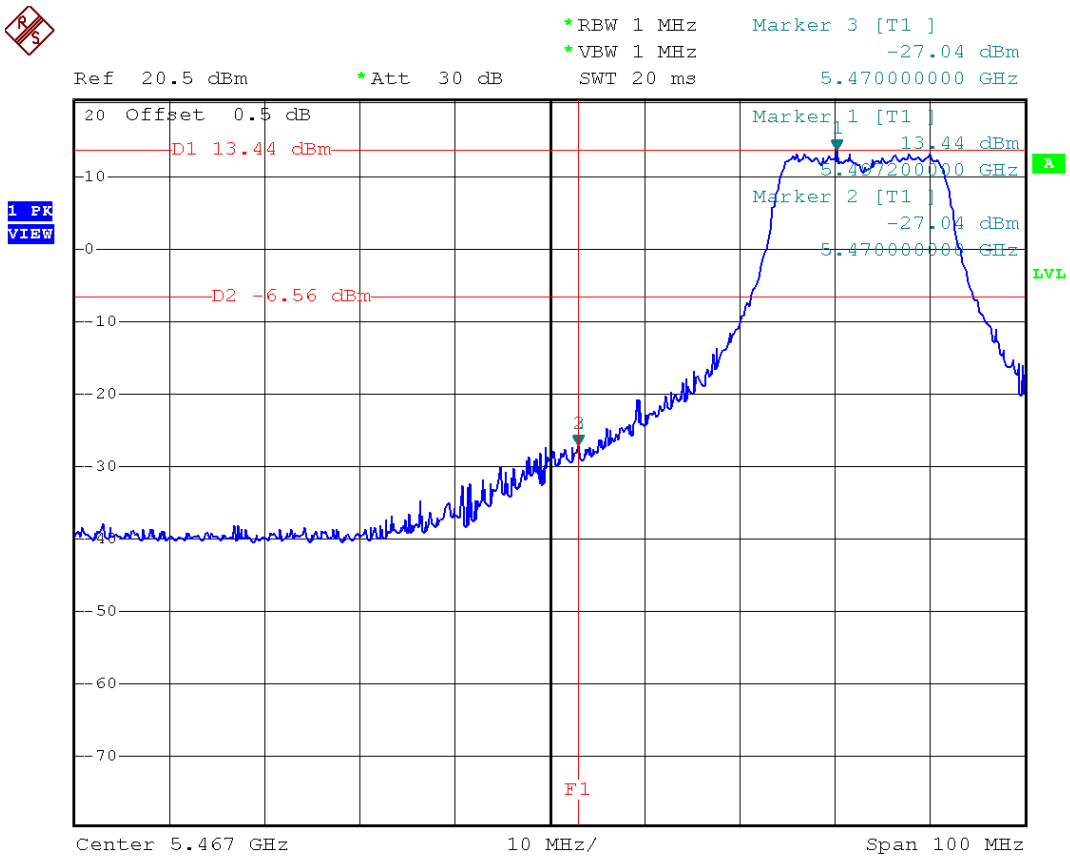

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-29.31 dBm
5.727000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
9.27 dBm
5.701200000 GHz
Marker 2 [T1]
-31.83 dBm
5.725000000 GHz
D1 9.27 dBm
D2 -10.73 dBm
1 PK VIEW
A
LVL
F1
Center 5.732 GHz
10 MHz/
Span 100 MHz

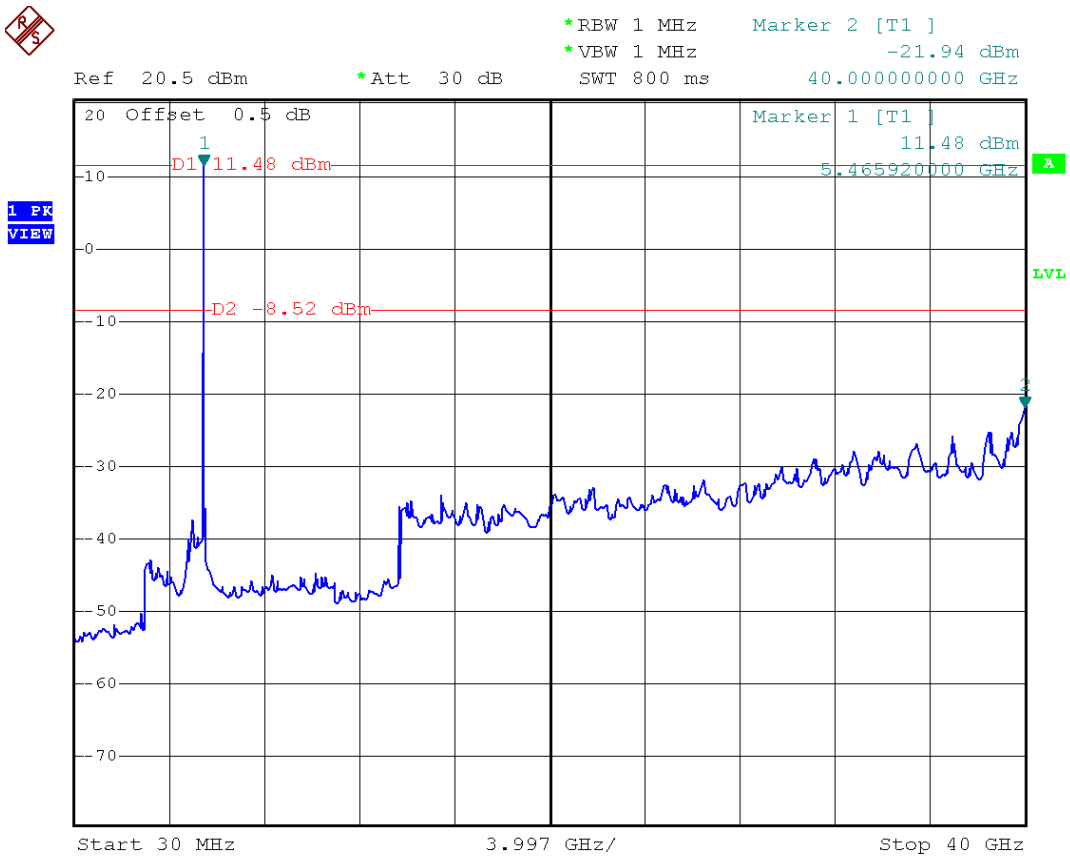

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.13 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
6.56 dBm
5.705740000 GHz
D1 6.56 dBm
D2 -13.44 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH100, CH140 (Port 1)		

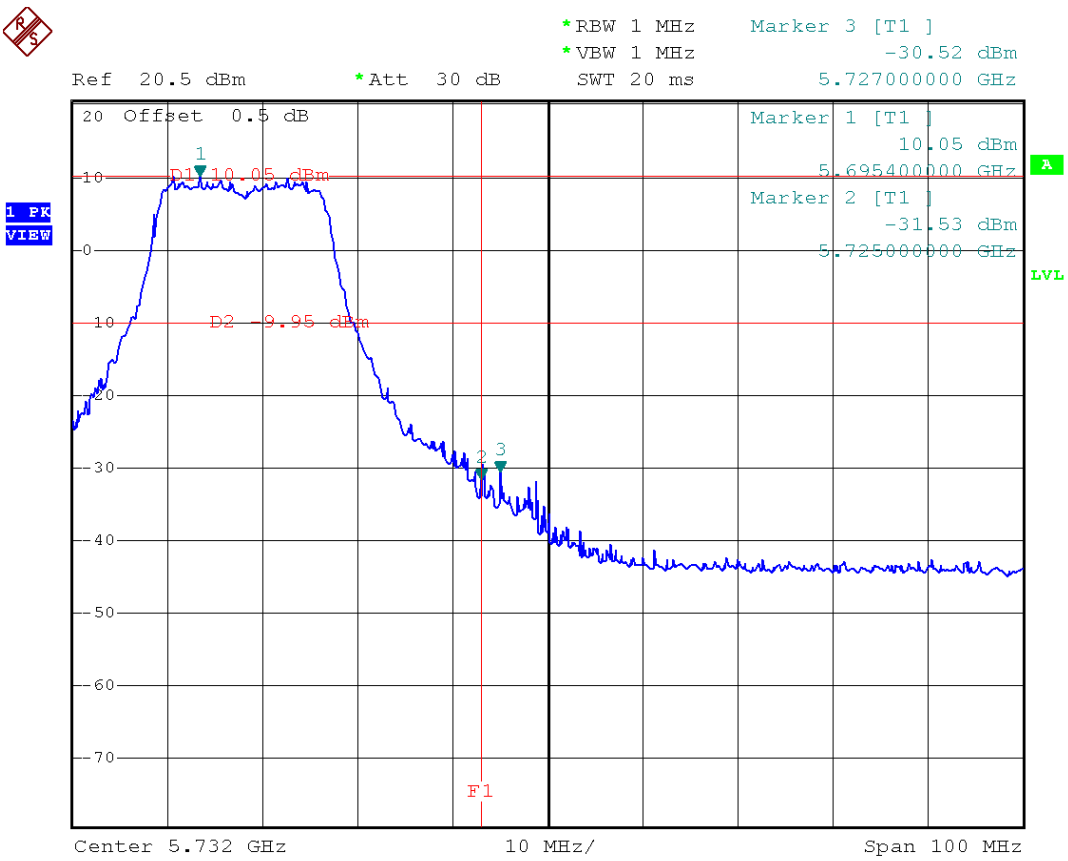
Channel of Worst Data: CH100,CH140			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470MHz	-27.04	5727MHz	-30.52
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

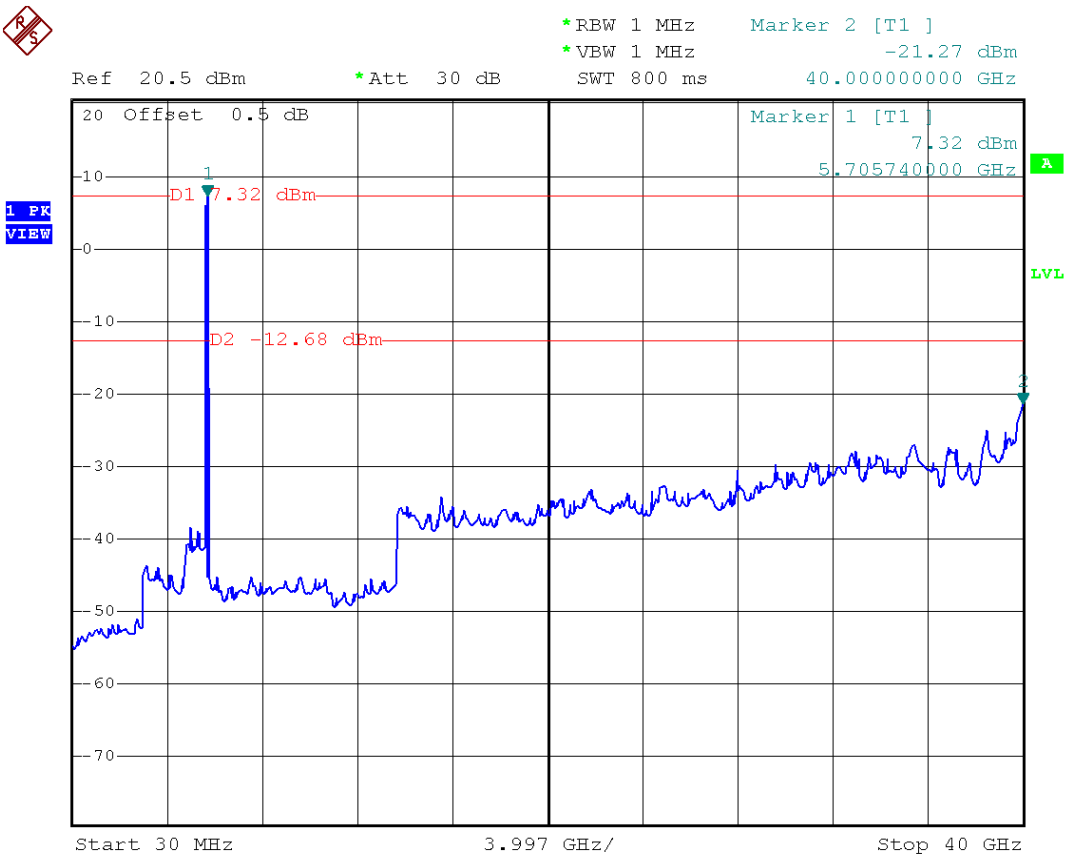
CH100


*RBW 1 MHz
*VBW 1 MHz
Marker 3 [T1]
-27.04 dBm
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
5.470000000 GHz
20 Offset 0.5 dB
D1 13.44 dBm
Marker 1 [T1]
13.44 dBm
5.467200000 GHz
Marker 2 [T1]
-27.04 dBm
5.470000000 GHz
1 PK
VIEW
A
LVL
D2 -6.56 dBm
F1
Center 5.467 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 1 MHz
Marker 2 [T1]
-21.94 dBm
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
11.48 dBm
D1 11.48 dBm
5.465920000 GHz
1 PK
VIEW
A
LVL
D2 -8.52 dBm
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH140

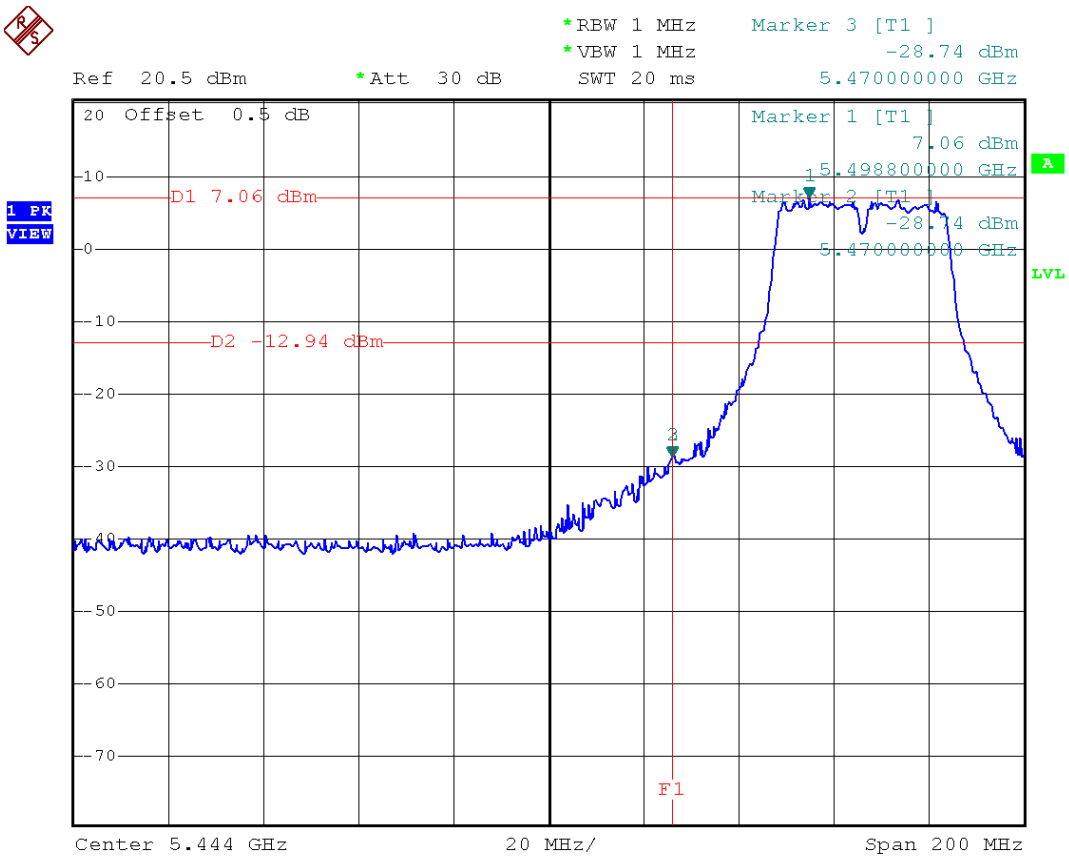

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-30.52 dBm
5.727000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
10.05 dBm
5.695400000 GHz
Marker 2 [T1]
-31.53 dBm
5.725000000 GHz
D1 10.05 dBm
D2 -9.95 dBm
1 PK VIEW
A
LVL
F1
Center 5.732 GHz
10 MHz/
Span 100 MHz

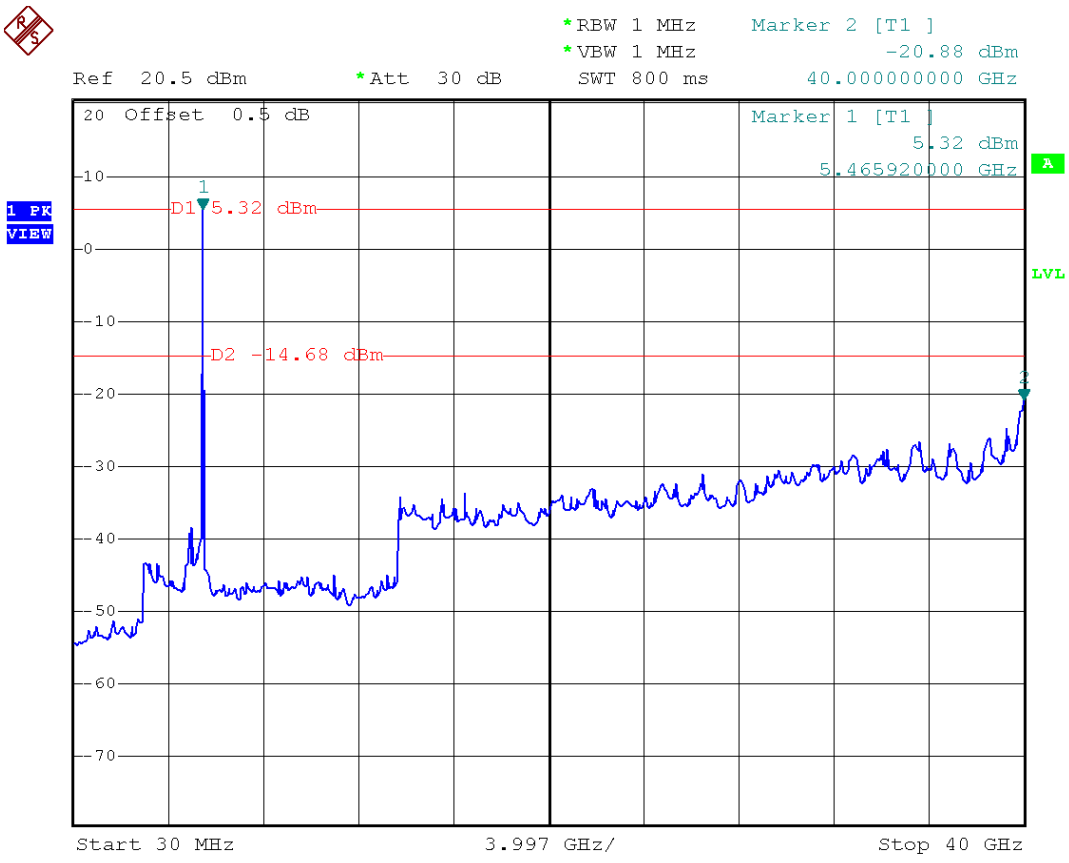

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.27 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
7.32 dBm
5.705740000 GHz
D1 7.32 dBm
D2 -12.68 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102, CH134 (Port 0)		

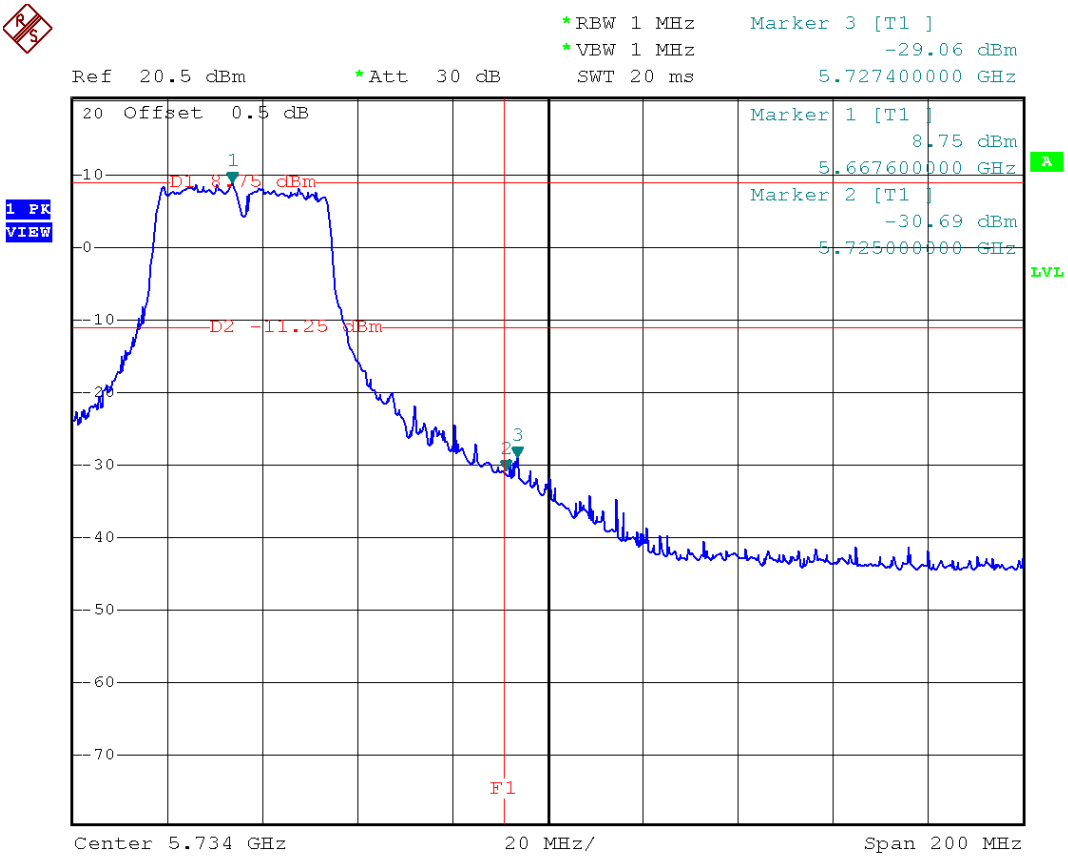
Channel of Worst Data: CH102,CH134			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470MHz	-28.74	5727.4 MHz	-29.06
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

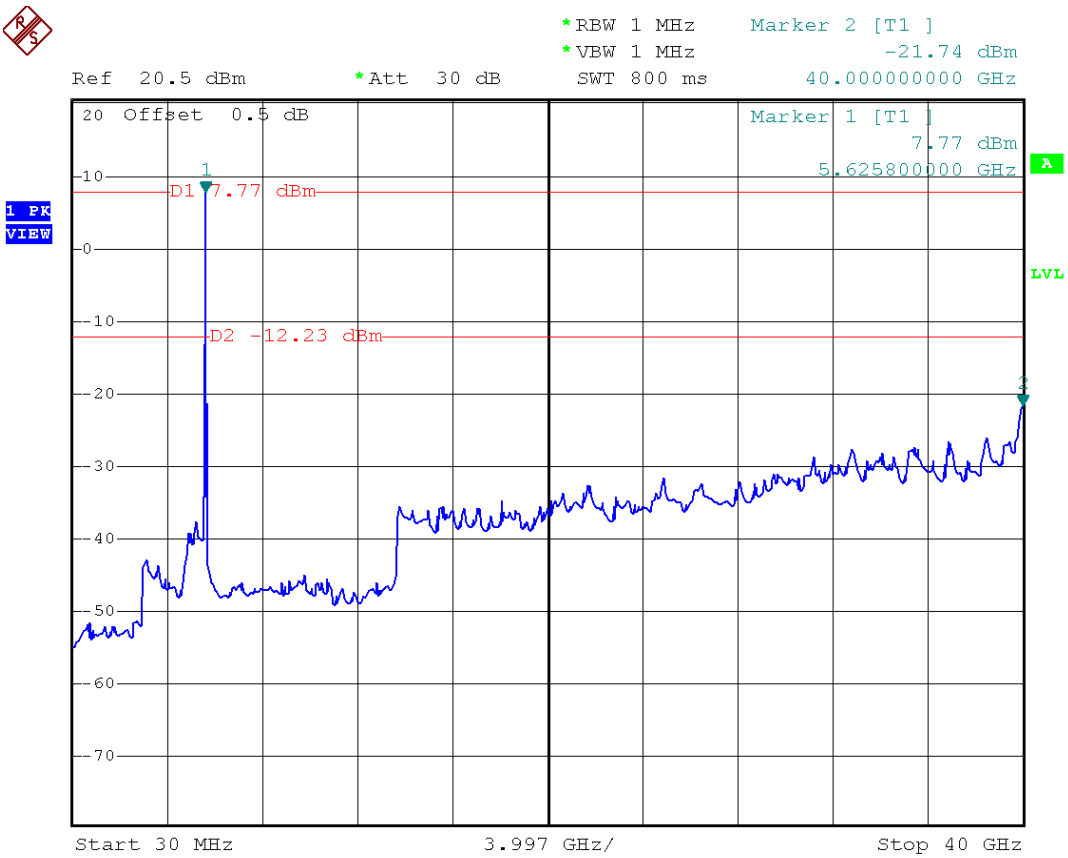
CH102


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-28.74 dBm
5.470000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
7.06 dBm
5.498800000 GHz
Marker 2 [T1]
-28.74 dBm
5.470000000 GHz
D1 7.06 dBm
D2 -12.94 dBm
1 PK VIEW
A
LVL
F1
Center 5.444 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-20.88 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
5.32 dBm
5.465920000 GHz
D1 5.32 dBm
D2 -14.68 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH134

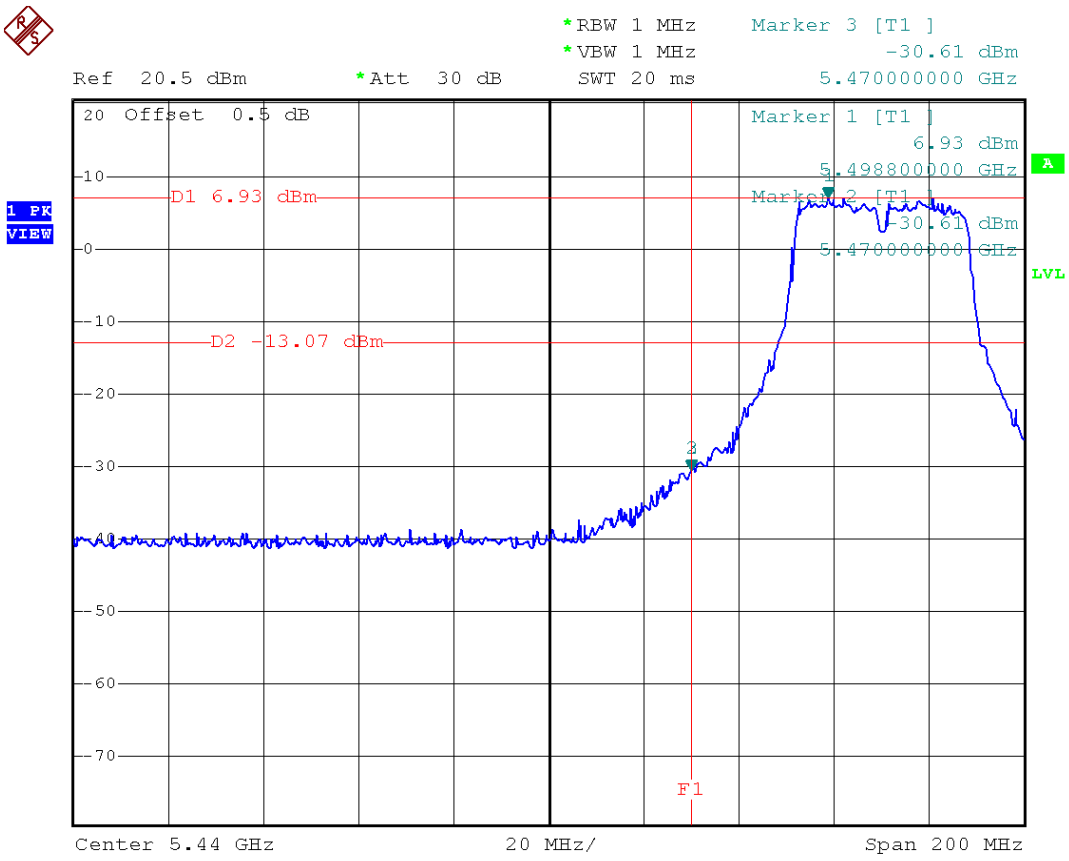

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-29.06 dBm
5.727400000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
8.75 dBm
5.667600000 GHz
Marker 2 [T1]
-30.69 dBm
5.725000000 GHz
D1 8.75 dBm
D2 -11.25 dBm
1 PK VIEW
A
LVL
F1
Center 5.734 GHz
20 MHz/
Span 200 MHz

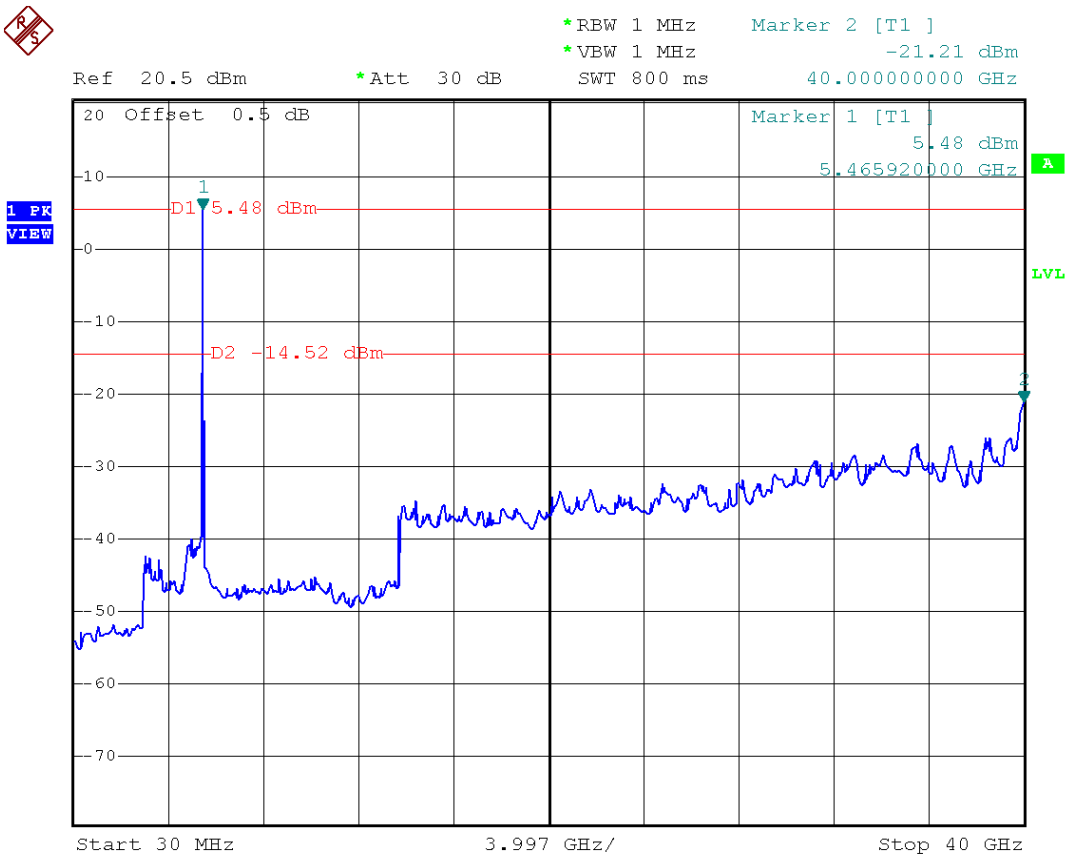

*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.74 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
7.77 dBm
5.625800000 GHz
D1 7.77 dBm
D2 -12.23 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

EUT：	Wireless 11n AP	Model Name ：	AN0100
Temperature：	13°C	Relative Humidity：	64 %
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH102, CH134 (Port 1)		

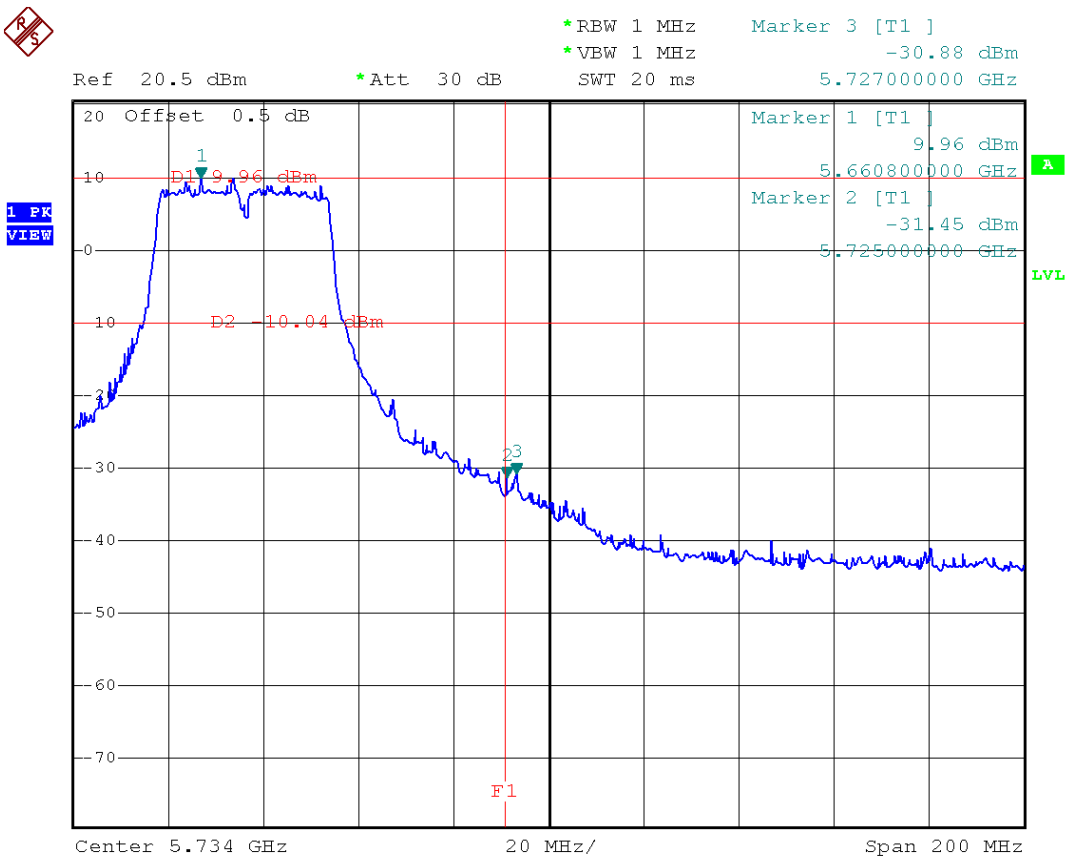
Channel of Worst Data: CH102,CH134			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470 MHz	-30.61	5727 MHz	-30.88
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

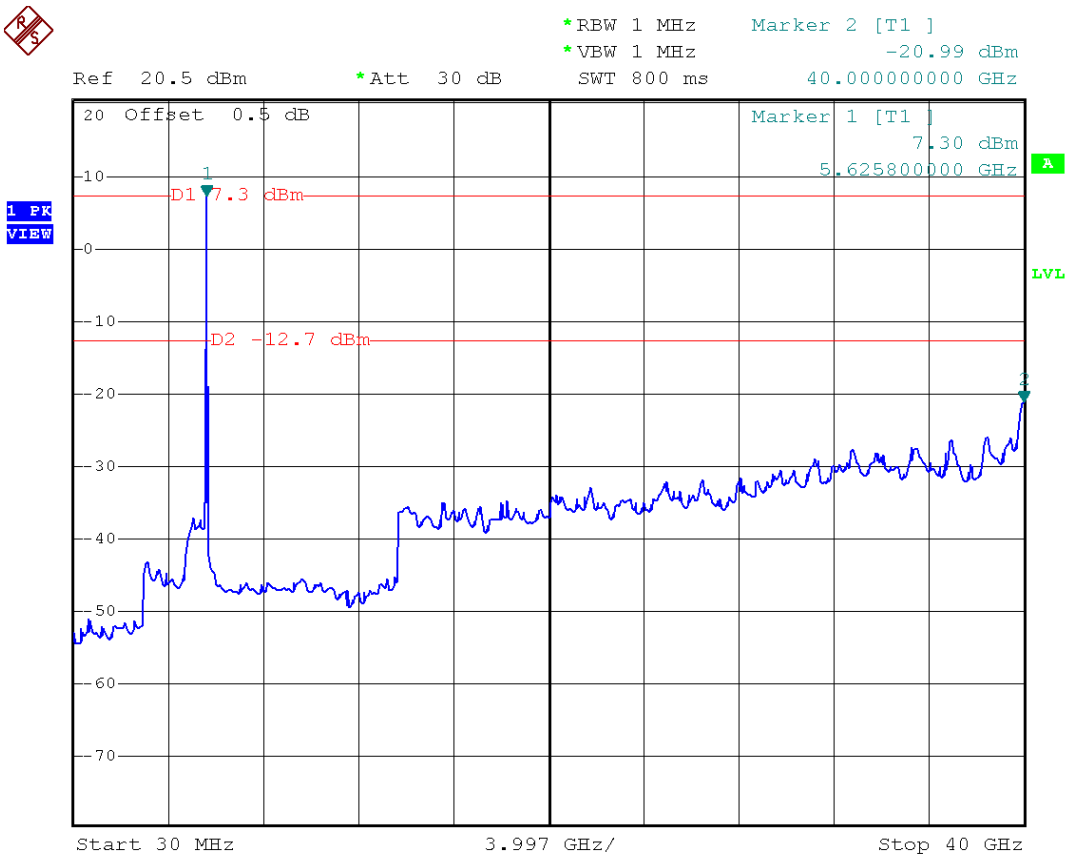
CH102


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-30.61 dBm
5.470000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
6.93 dBm
5.498800000 GHz
Marker 2 [T1]
-30.61 dBm
5.470000000 GHz
D1 6.93 dBm
D2 -13.07 dBm
1 PK VIEW
A
LVL
F1
Center 5.44 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-21.21 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
5.48 dBm
5.465920000 GHz
D1 5.48 dBm
D2 -14.52 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz

CH134


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-30.88 dBm
5.727000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
9.96 dBm
5.660800000 GHz
Marker 2 [T1]
-31.45 dBm
5.725000000 GHz
D1 9.96 dBm
D2 -10.04 dBm
1 PK VIEW
A
LVL
Center 5.734 GHz
20 MHz/
Span 200 MHz


*RBW 1 MHz
*VBW 1 MHz
Ref 20.5 dBm
*Att 30 dB
SWT 800 ms
Marker 2 [T1]
-20.99 dBm
40.000000000 GHz
20 Offset 0.5 dB
Marker 1 [T1]
7.30 dBm
5.625800000 GHz
D1 7.3 dBm
D2 -12.7 dBm
1 PK VIEW
A
LVL
Start 30 MHz
3.997 GHz/
Stop 40 GHz