FCC Test Report

for

47 CFR, Part 15 Subpart E

Equipment	:	**Notebook PC**
Trade Name	:	**MTC; GETAC**
Model No.	:	**B300**
FCC ID	:	**MAU303**
Filing Type	:	**Certification**
Applicant	:	**MiTAC Technology Corp.**
		9th. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Jan. 09, 2008 at **Sporton International Inc. LAB.**
- Report No.: FR852118C, Report Version: Rev.01.

Roy Wu
Manager

SPORTON International Inc.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

Table of Contents

History of this test report

Report Issue Date: May 28, 2008

Report No.	Description

1. General Description of Equipment under Test

1.1 Applicant

MiTAC Technology Corp.
9th. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

1.2 Manufacturer

GeTAC Technology(Kunshan) LTD.
No.269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C.

1.3 Basic Description of Equipment under Test

Equipment		Notebook PC
Trade Name		MTC; GETAC
Model Name		B300
FCC ID		MAU303
AC Adapter	**Brand Name**	Delta
	Model Name	ADP-90SB BB
	Power Rating	I/P : 100-240Vac, 1.5A, 50-60Hz; O/P : 19Vdc, 4.74A
	AC Power Cord Type	1.73meter shielded with ferrite core
Battery	**Brand Name**	SAYNO
	Model Name	BP3S3P2550(P)
	Rating	10.8V, 7.65Ah
	Type	Li-ion

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

1.4 Feature of Equipment under Test

Product Feature & Specification				
DUT Type :	Notebook PC			
Trade Name :	MTC; GETAC			
Model Name :	B300			
FCC ID :	MAU303			
Freq. Range/Carrier Freqs. :	802.11a : 5150 ~ 5350MHz (Band I,II) 802.11n : 5150 ~ 5350MHz (Band I,II)			
Maximum Output Power to Antenna : (Normal condition)	802.11a : 16.98 dBm (Band I) / 17.86 dBm (Band II) 802.11n (a) : 16.77 dBm (Band I, BW 20M) 16.84 dBm (Band I, BW 40M) 19.55 dBm (Band II, BW 20M) 16.81 dBm (Band II, BW 40M)			
Antenna Type :	WLAN : PIFA Antenna			
Antenna Gain :	WLAN : 1.55 dBi			
HW Version :	R01			
Type of Modulation :	WLAN : DSSS / OFDM			
Function Type :	Transmitter		Transceiver	V
DUT Stage :	Identical Prototype			

Specification of Notebook		
Model	**Mode 1 (E100)**	**Mode 3 (E100N)**
LCD	L5S30348P01, 13.1" XGA, ESPON	Sanyo Panel + Sunlight readable L5S30348P01, 13.3", EPSON,
CPU	L7300	L7500
ODD	SUPER MULIT DVD R9 DEVICE;UJ850UPK-AG,CS F/W:1.6,W/O BEZEL,KME	
HDD	MHY2080BH,2.5",80GB,5400RPM,SATA,FUJITSU	MHY2120BH,2.5",120GB,5400RPM,SATA,FUJITSU
Memory	1GB,HYS64T128021EDL-3S-B2,QIMONDA	HYMP512S64CP8-Y5,DDR2 667 1G,HYNIX (x 2)
Battery	BP3S3P2550(P) LI-ION,10.8V/7.65AH,BQ20z90,PAN,9CELLS,3S3P	
ADP	Delta ADP-90SB BB	Delta ADP-90SB BB
MDC	RD02-D330,AZALIA,BILLIONTON	
WLAN	Intel wireless 4965 802.11a/g/n (MOW1)	Intel wireless 4965 802.11a/g/n (MOW2)
Bluetooth	Billionton GUBTCR42M	
GPS	ET313,GPS ENGINE BOARD,GLOBALSAT,GPI	
3G	SIERRA MC8785V	

2. Test Configuration of Equipment under Test

2.1 Test Manner

a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

b. Power Table as below:

Normal mode :

Channel		Frequency (MHz)	Data Rate							
			6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Normal mode	CH 036	5180 MHz	21.08	20.07	20.15	20.84	21.16	20.96	19.95	18.10
	CH 044	5220 MHz	22.55	22.43	22.33	22.49	**22.65**	22.64	21.58	20.74
	CH 048	5240 MHz	19.88	20.35	20.24	20.47	21.46	20.62	20.08	18.15
	CH 052	5260 MHz	20.04	21.67	21.67	20.44	22.08	21.85	20.54	18.28
	CH 060	5300 MHz	22.02	22.37	21.83	21.69	21.74	21.50	21.14	19.90
	CH 064	5320 MHz	21.41	21.78	21.77	21.69	22.00	21.42	19.78	18.51

11n(a) 20M mode :

Channel		Frequency (MHz)	Data Rate							
			6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
11n(a) 20M	CH 036	5180 MHz	23.11	24.25	24.08	23.70	24.23	25.33	**25.87**	23.66
	CH 044	5220 MHz	24.56	25.50	24.71	24.87	24.54	24.97	25.81	24.54
	CH 048	5240 MHz	22.18	21.88	23.32	22.30	23.48	22.71	22.81	23.14
	CH 052	5260 MHz	23.68	23.17	22.30	22.25	23.92	23.10	23.66	23.33
	CH 060	5300 MHz	24.52	25.17	24.41	24.32	24.95	24.62	24.99	25.05
	CH 064	5320 MHz	23.55	21.96	22.41	22.46	22.12	22.82	22.33	22.53

11n(a) 40M mode :

Channel		Frequency (MHz)	Data Rate							
			6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
11n(a) 40M	CH 038	5190 MHz	22.40	22.95	22.83	21.76	22.80	22.62	21.83	22.83
	CH 046	5230 MHz	22.59	**23.06**	22.42	22.75	22.31	22.70	22.46	22.38
	CH 054	5270 MHz	21.32	22.50	22.29	21.82	22.85	21.78	21.29	22.19
	CH 062	5310 MHz	20.68	20.66	19.68	19.84	19.85	20.40	21.84	21.49

c. The data rates, 24Mbps, was chosen to being tested in normal mode, and 48Mbps was chosen to being tested in 802.11n(a) BW 20M mode, and 9Mbps was chosen to being tested in 802.11n(a) BW 40M mode, due to the highest RF output power.

d. The complete test system refers to section 2.2 and EUT for EMI test.

e. The EUT can operate on 5150MHz to 5250MHz, 5250MHz to 5350MHz as listed in section 1.4.

f. Test Mode for radiated emission and conducted emission:

Application	Test Mode	
Radiated Emission	**802.11a**	
	Mode 1: CH036_5180 MHz Mode 2: CH044_5220 MHz Mode 3: CH048_5240 MHz Mode 4: CH052_5260 MHz Mode 5: CH060_5300 MHz Mode 6: CH064_5320 MHz	
	802.11n(a) (BW 20M)	**802.11n(a) (BW 40M)**
	Mode 7: CH036_5180 MHz Mode 8: CH044_5220 MHz Mode 9: CH048_5240 MHz Mode 10: CH052_5260 MHz Mode 11: CH060_5300 MHz Mode 12: CH064_5320 MHz	Mode 13: CH038_5190 MHz Mode 14: CH046_5230 MHz Mode 15: CH054_5270 MHz Mode 16: CH062_5310 MHz
Conducted Emission	Mode 1: BT Link + WLAN Link Mode + Adapter	

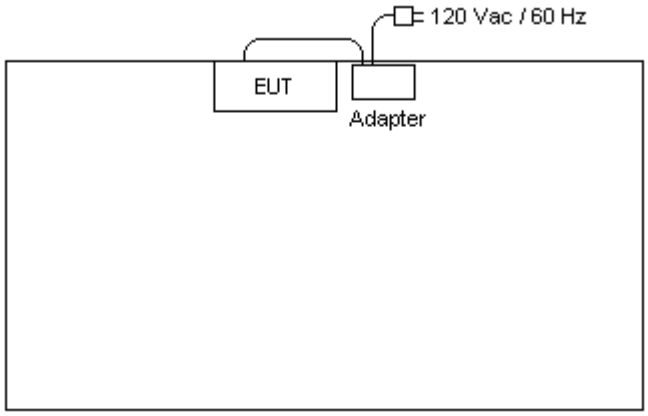
g. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 40000MHz.

2.2 Description of Test System

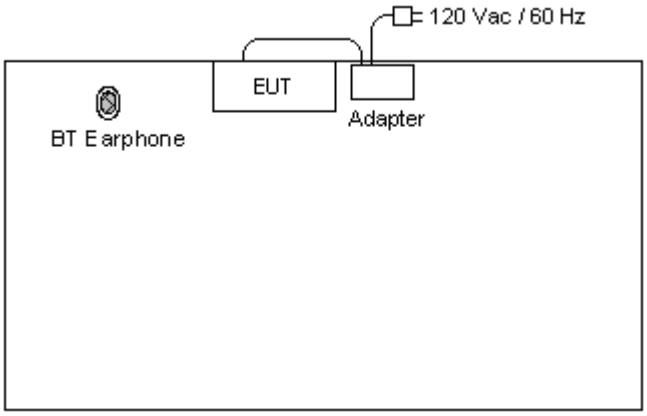
Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Engotech	ET-BH111	PQY471087	N/A	N/A

2.3 Connection Diagram of Test System

<Radiated Emission>



<Conducted Emission>



3. Operation of Equipment under Test

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing.

4. General Information of Test

Test Site Location	:	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-328-4978
Test Site No	:	CO04-HY, 03CH04-HY
FCC Designation No	:	TW1022

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance

FCC Part 15, Subpart E

4.4 Frequency Range

a. Conduction: from 150 kHz to 30 MHz
b. Radiation: from 9KHz to 40GHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 M.

5. Report of Measurements and Examinations

5.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.407(b)(6)	Conducted Emission	Pass
15.407(a)(1)(2)(3)	Peak Transmit Power	Pass
15.407(b)(1)(2)(4)(6)(7)	Radiated Emission	Pass
15.407(a)(1)(2)(3)	Power Spectral Density	Pass
15.407(b)(1)(2)(3)	Band Edges Measurement	Pass
15.203	Antenna Requirement	Pass
15.407(a)(6)	Peak Excursion Ratio Measurement	Pass
15.407(c)	Automatically Discontinue Transmission	Pass

5.2 Emission Bandwidth

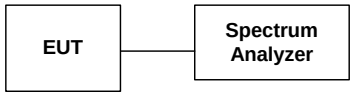
5.2.1 Measuring Instruments

As described in chapter 6 of this test report.

5.2.2 Test Procedure

The transmitter output is connected to the spectrum analyzer. For these tests, the resolution bandwidth is 1 MHz, video bandwidth is 3MHz, peak detection and view function is used. The 26 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 26 dB.

5.2.3 Test Setup Layout



5.2.4 Test Result

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

➢ **802.11a Normal mode**

Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Plot Ref. No.
36	5180	25.38	Mode 1
44	5220	23.40	Mode 2
48	5240	23.76	Mode 3
52	5260	23.76	Mode 4
60	5300	23.28	Mode 5
64	5320	24.00	Mode 6

➢ **802.11n(a) BW 20M mode**

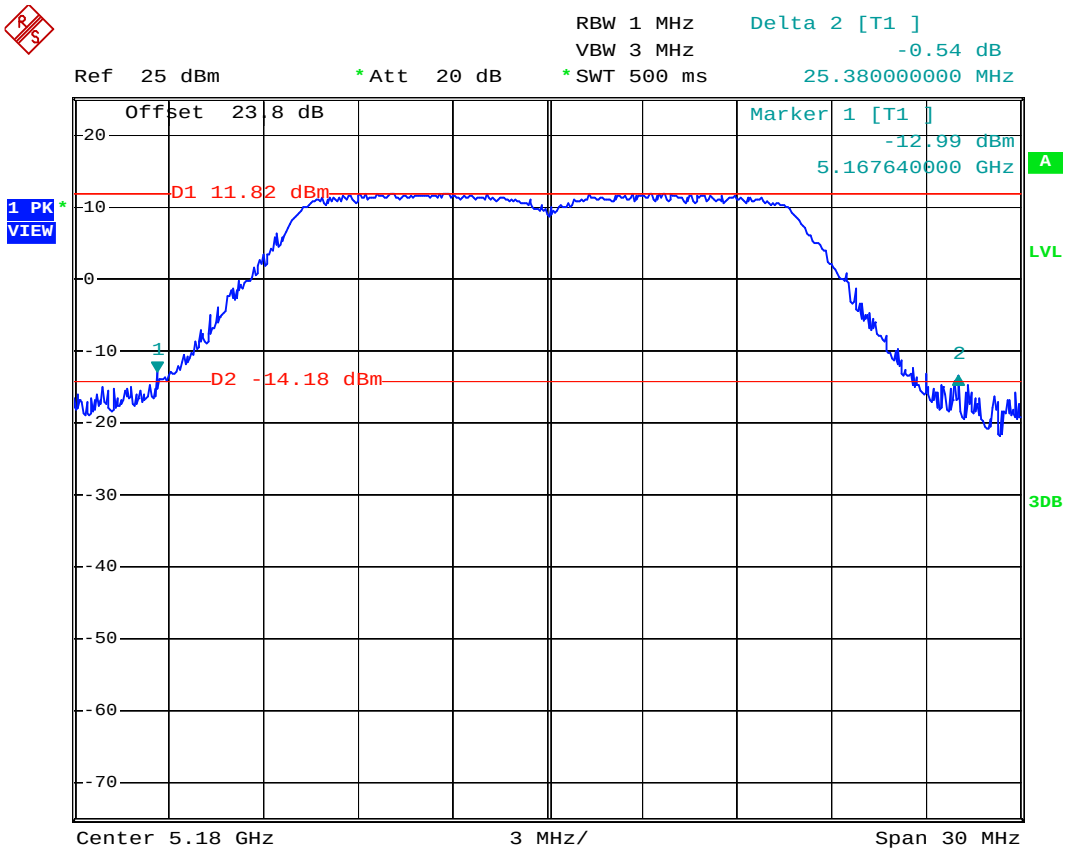
Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Plot Ref. No.
36	5180	23.70	Mode 7
40	5220	23.94	Mode 8
48	5240	23.58	Mode 9
52	5260	23.64	Mode 10
60	5300	24.00	Mode 11
64	5320	23.88	Mode 12

➢ **802.11n(a) BW 40M mode**

Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Plot Ref. No.
38	5190	40.92	Mode 13
46	5230	41.64	Mode 14
54	5270	40.92	Mode 15
62	5310	41.04	Mode 16

5.2.5 Test Data

Mode 1



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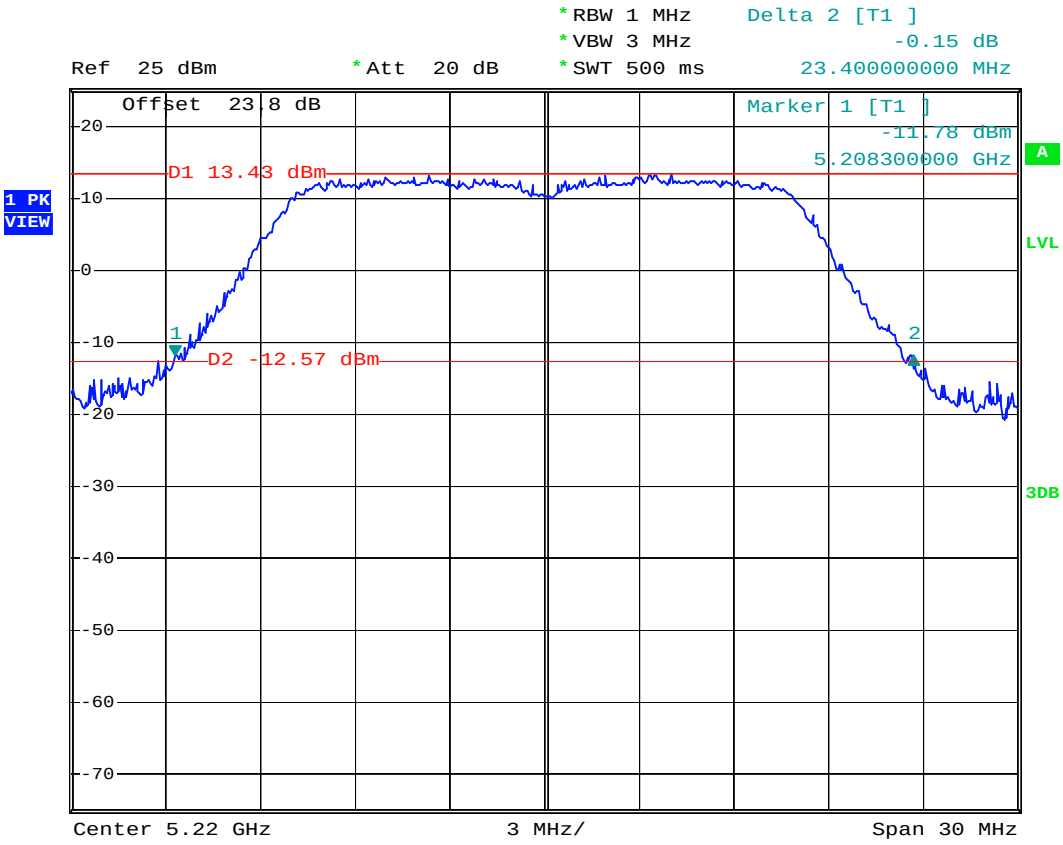

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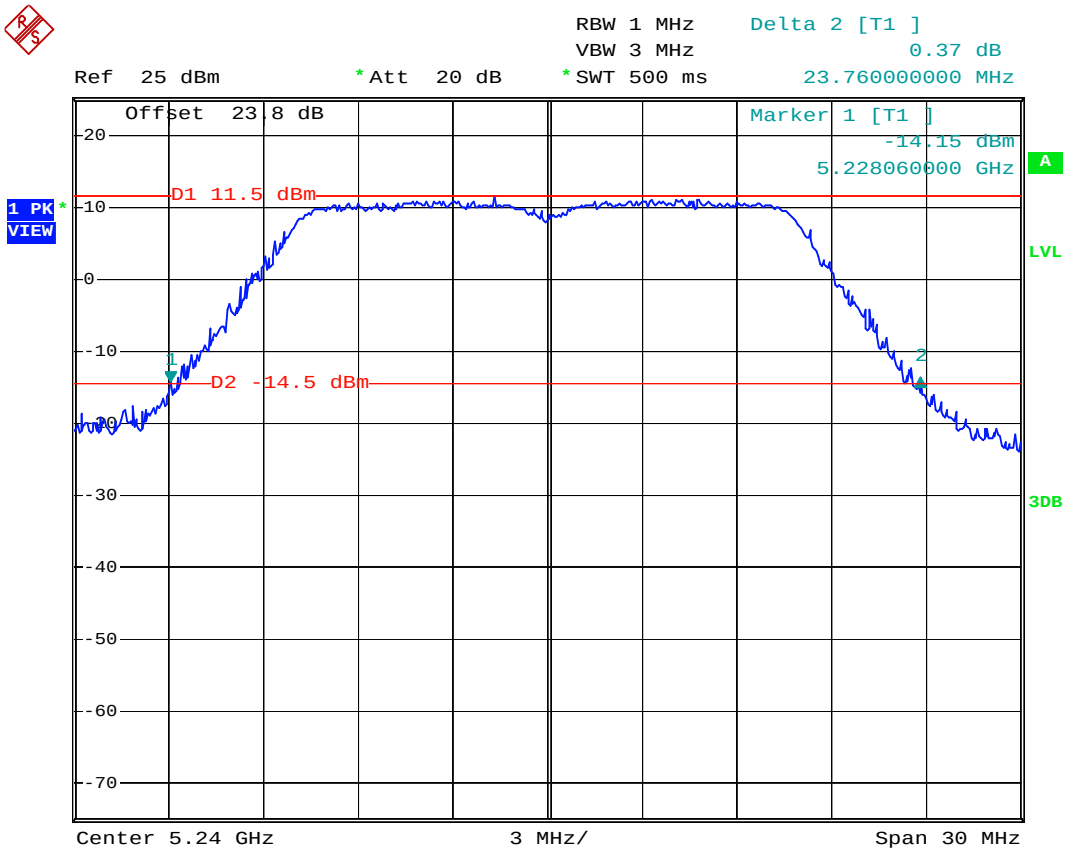
Mode 3



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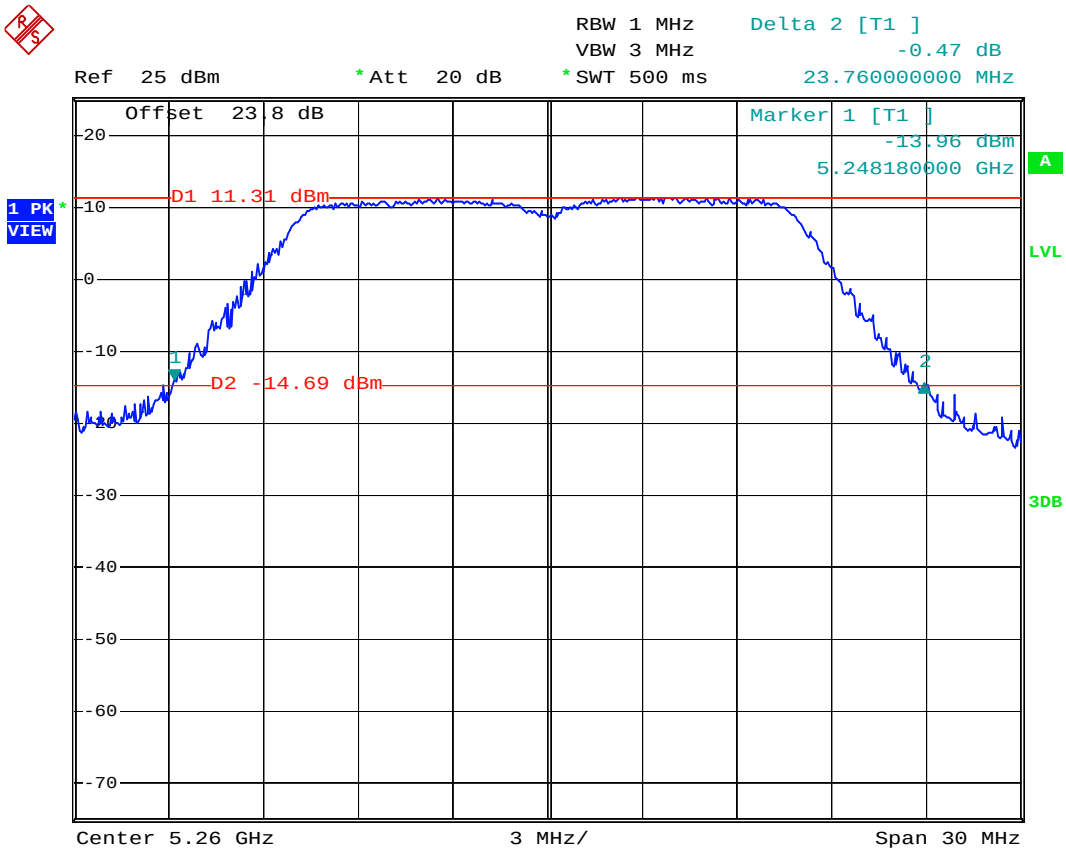
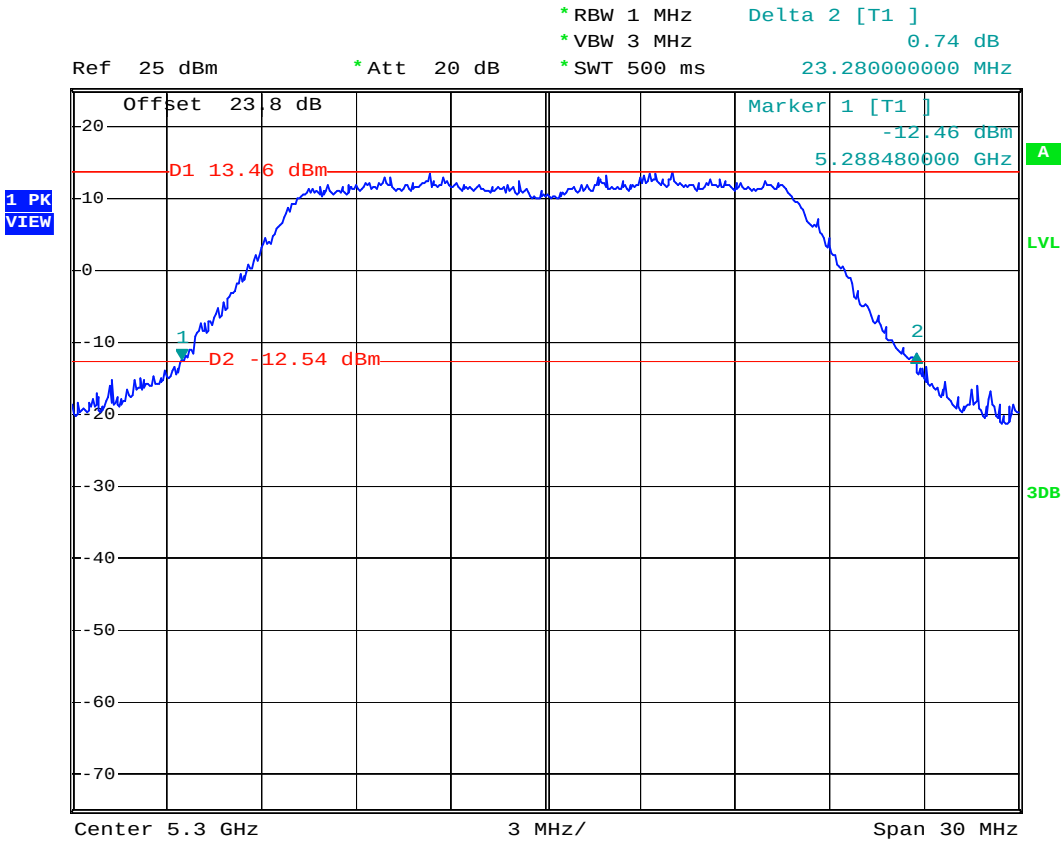


Date: 12.NOV.2007 09:38:34

Mode 5



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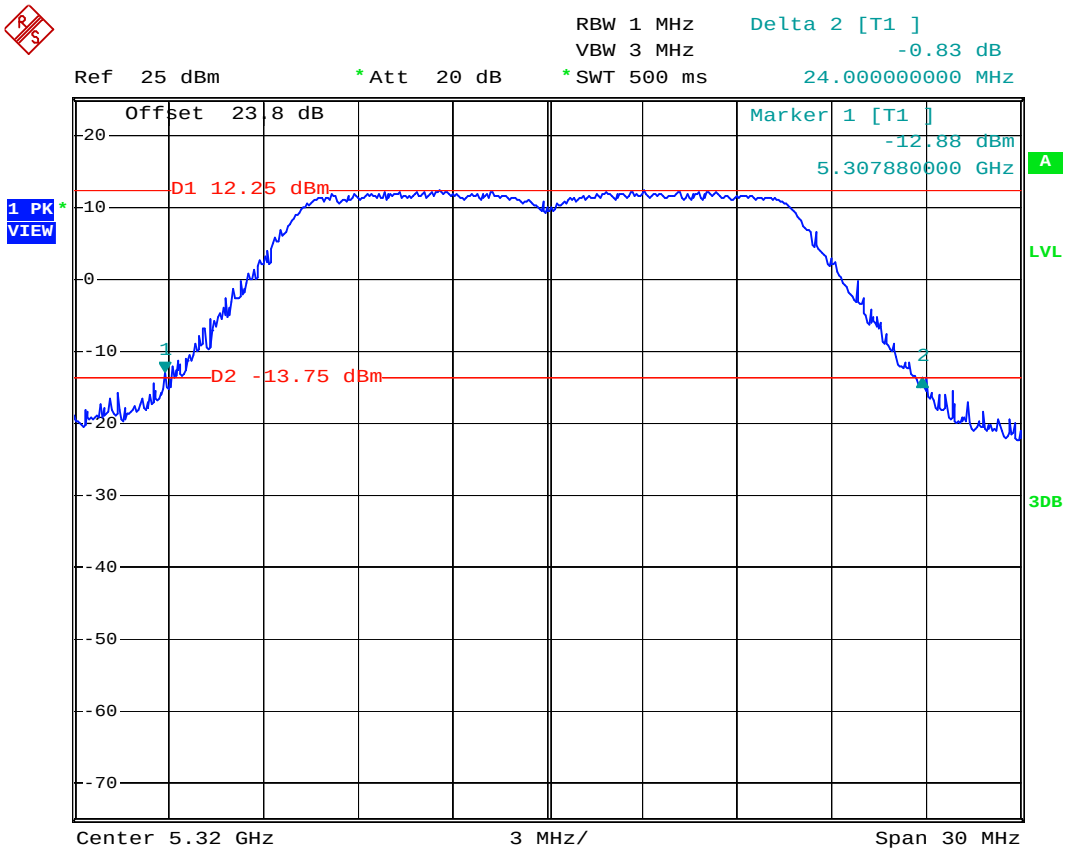
Mode 6



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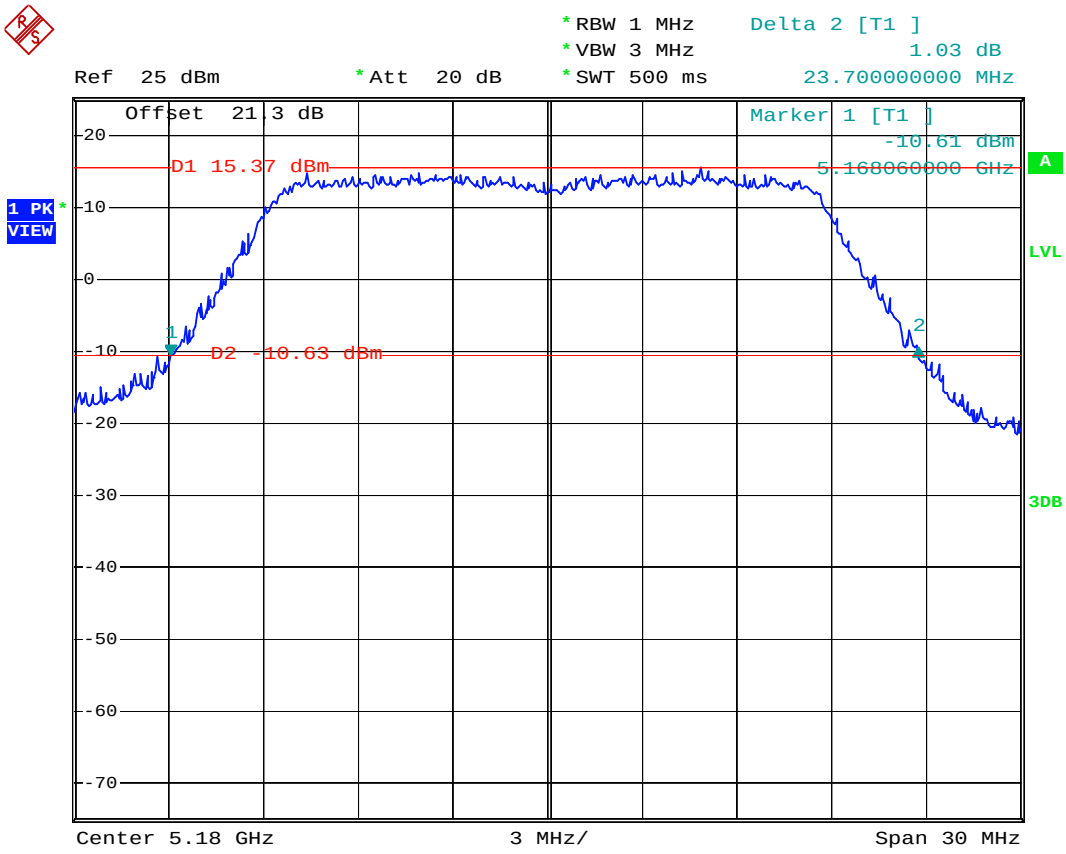
Mode 7



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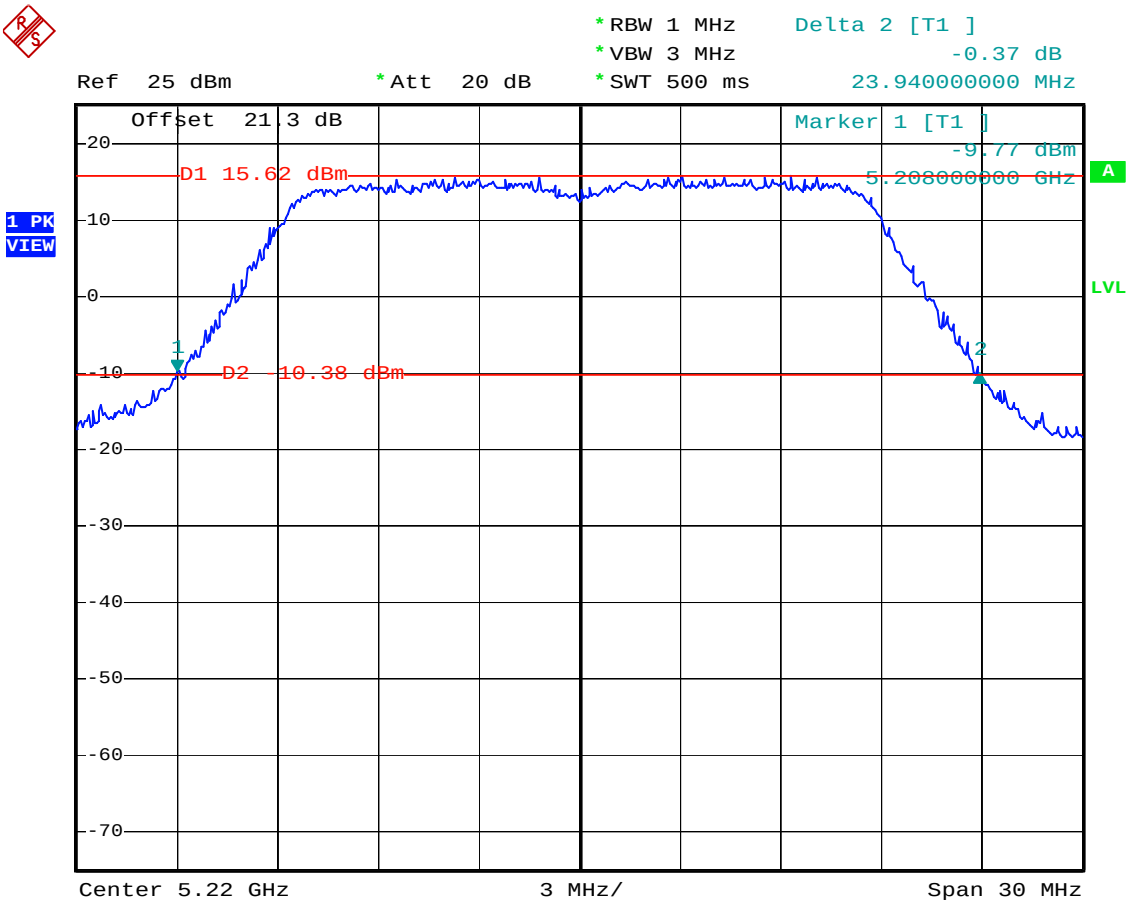
Mode 8



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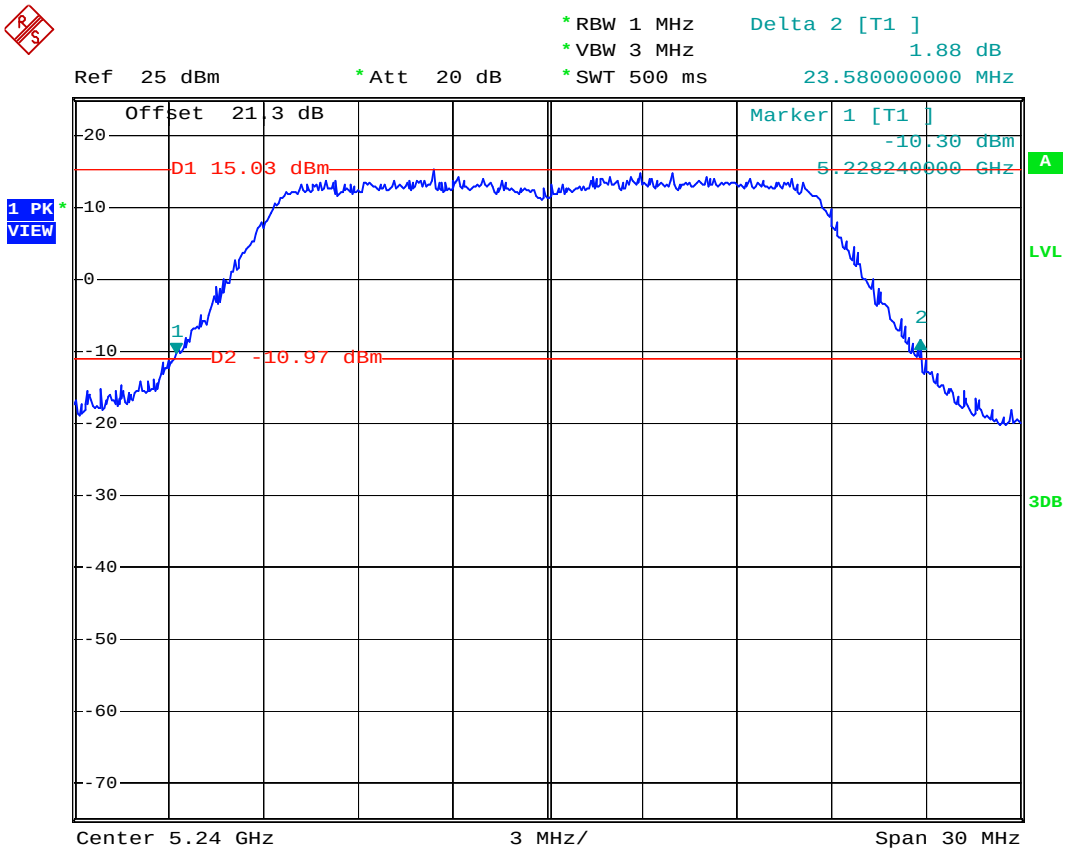
Mode 9



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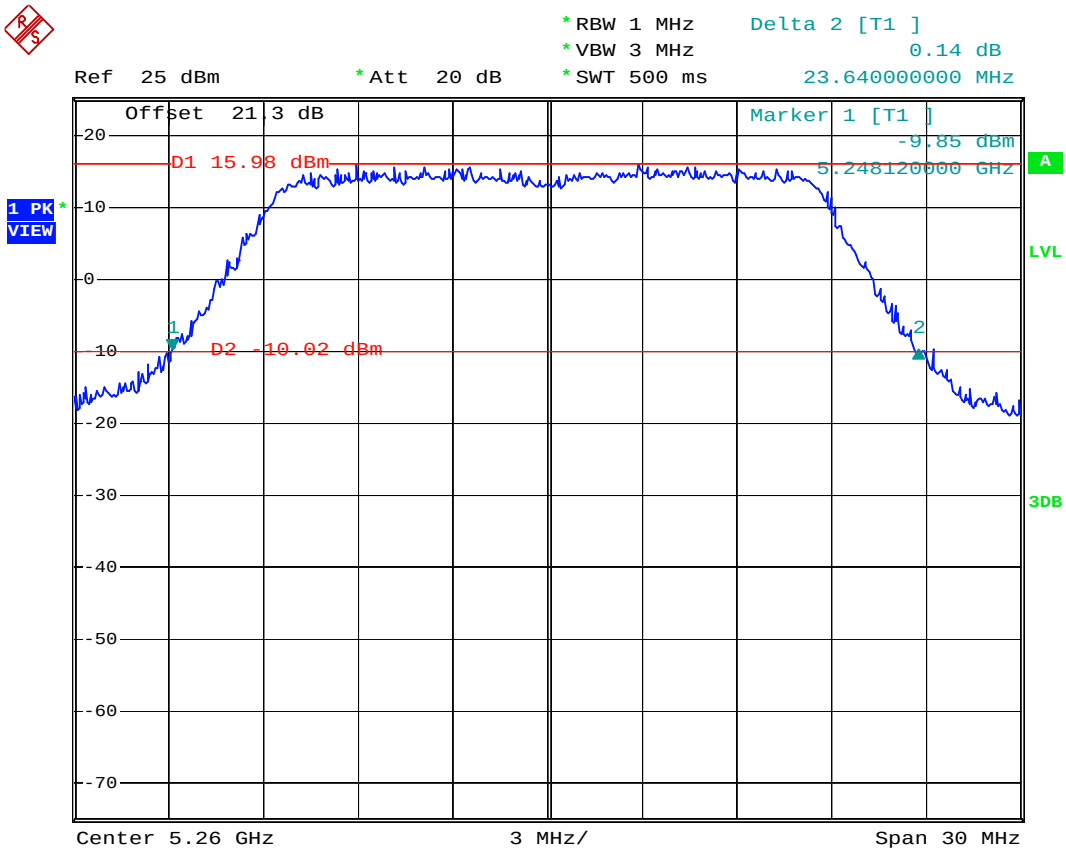
Mode 10



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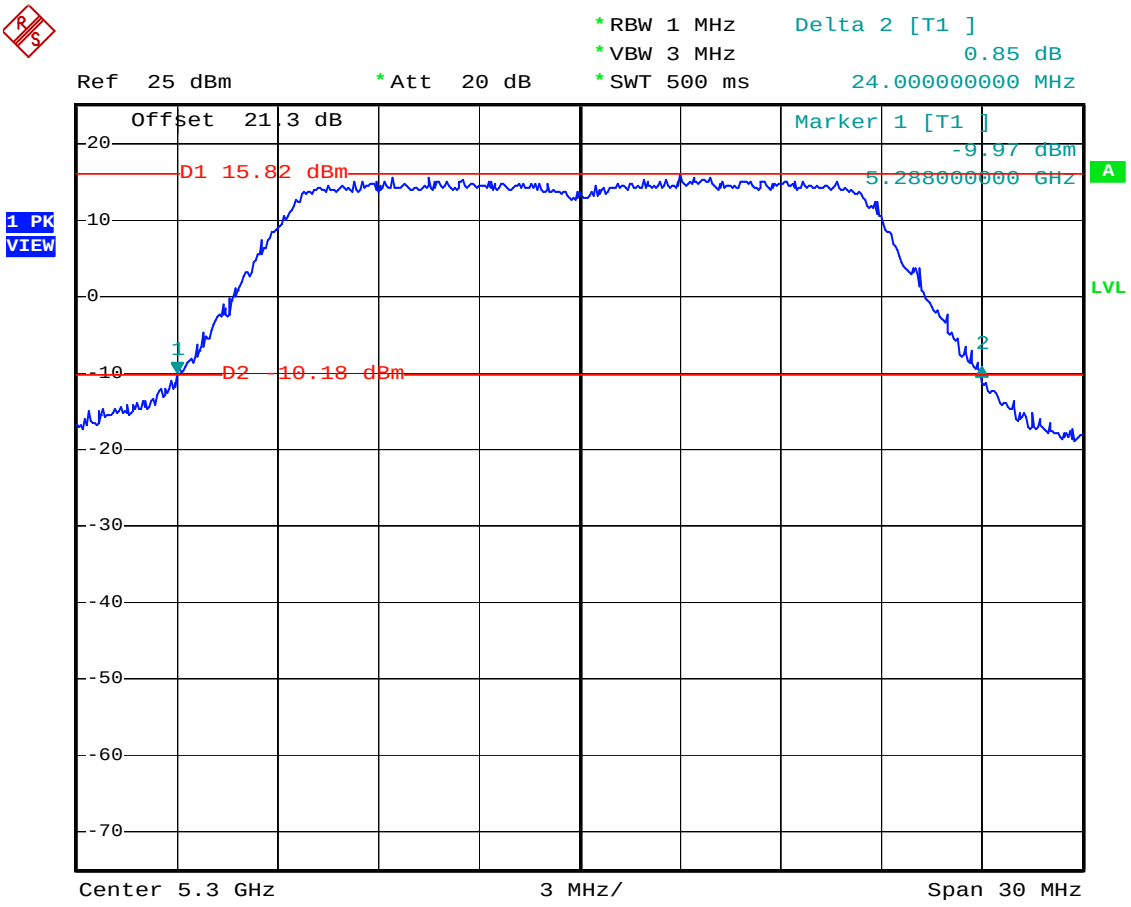
Mode 11



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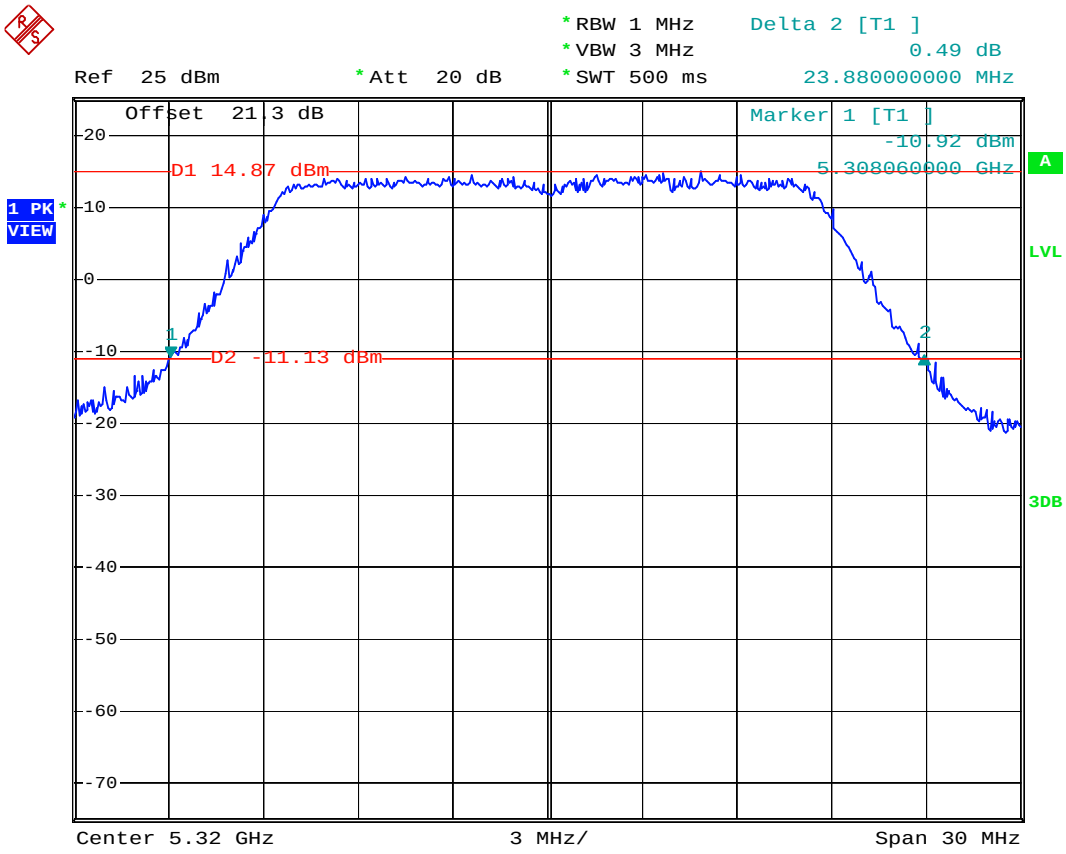
Mode 12



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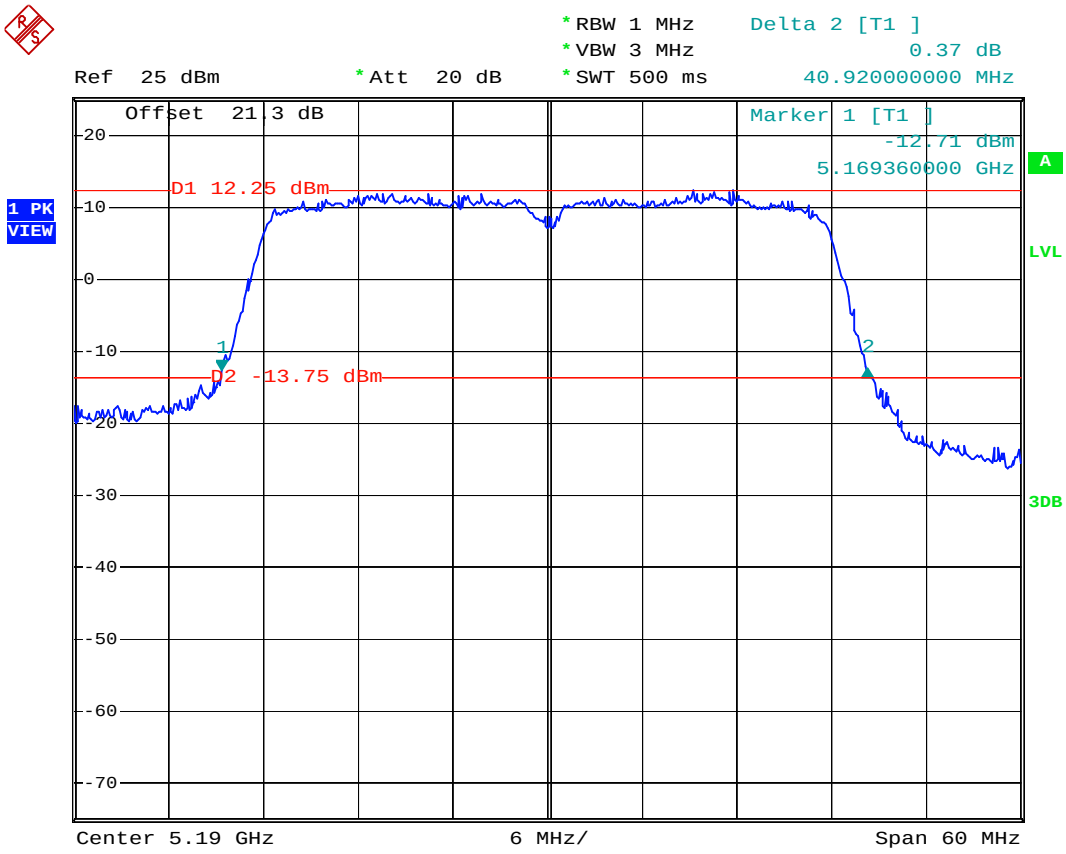
Mode 13



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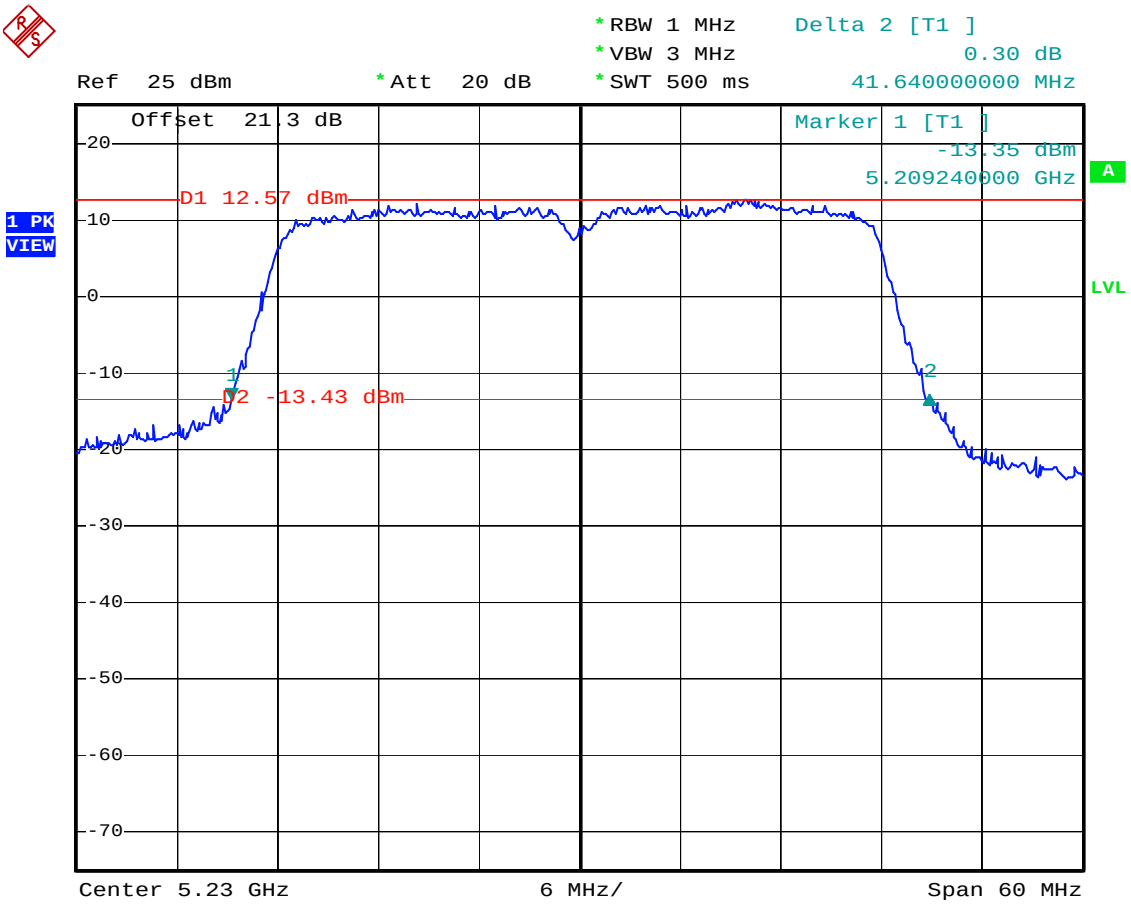
Mode 14



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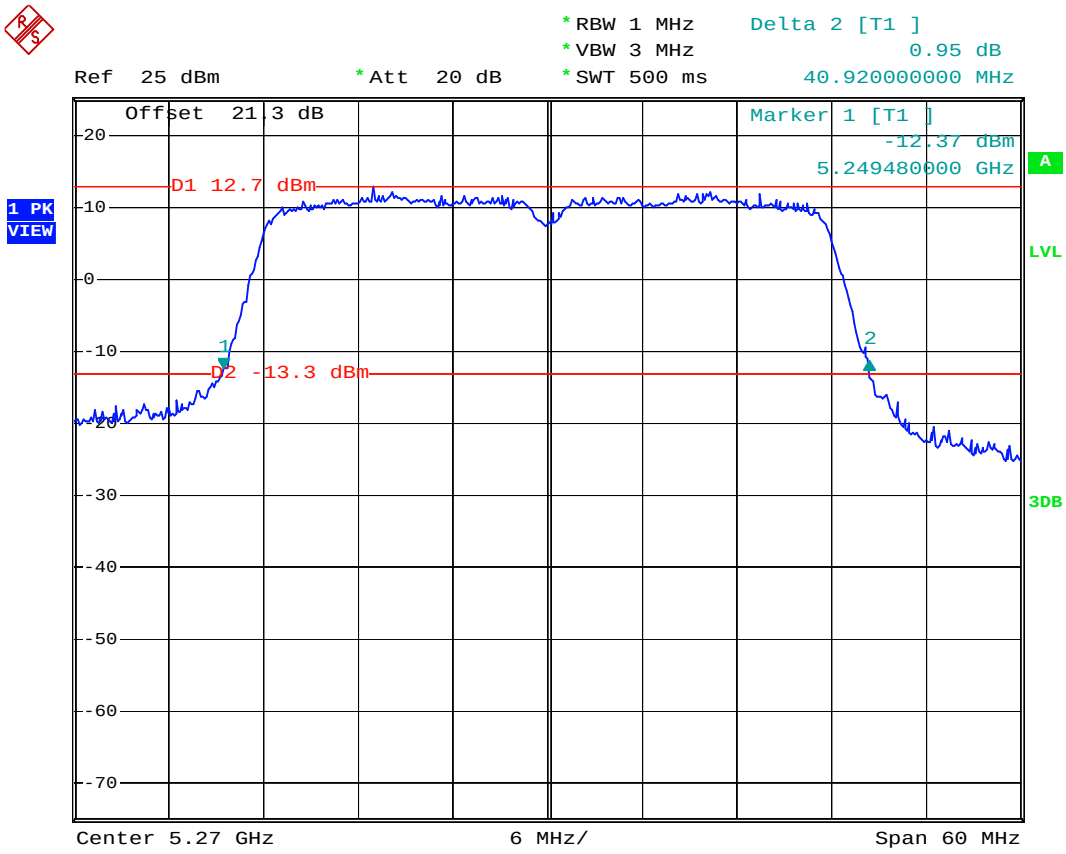
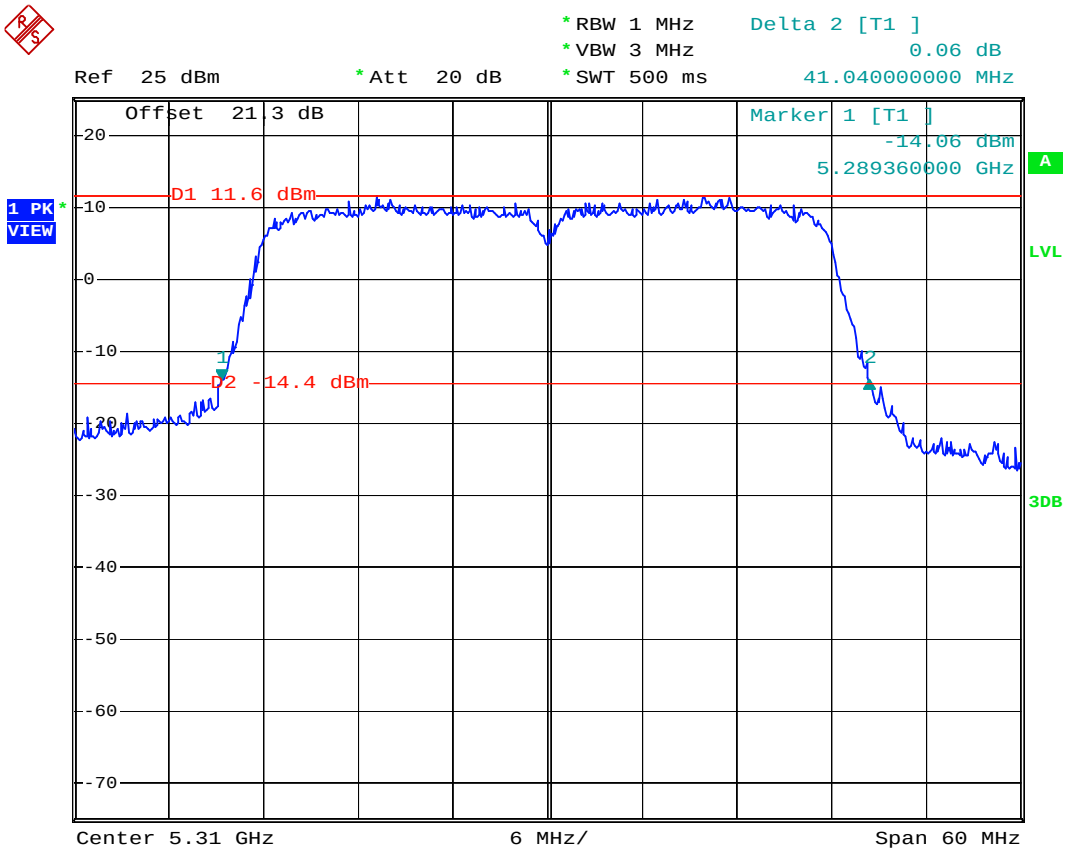
Mode 15



Date: 9.NOV.2007 11:18:22

Mode 16



Date: 27.NOV.2007 04:10:49

5.3 Peak Transmit Power

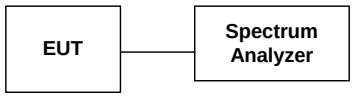
5.3.1 Measuring Instruments

As described in chapter 6 of this test report.

5.3.2 Test Procedure

The transmitter output is connected to the spectrum analyzer. According to the method 3 of DA-02-2138, the resolution bandwidth is set to 1 MHz, video bandwidth is 1MHz, max hold to run for 60 seconds, and sample detection is used. The peak power is measured by channel power integration over the previously measured emissions bandwidth.

5.3.3 Test Setup Layout



5.3.4 Test Result

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

➢ **802.11a Normal mode**

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Plot Ref. No.
36	5180	16.98	17.00	Mode 1
44	5220	16.90	17.00	Mode 2
48	5240	16.91	17.00	Mode 3
52	5260	17.44	24.00	Mode 4
60	5300	17.86	24.00	Mode 5
64	5320	17.64	24.00	Mode 6

➢ **802.11n(a) BW 20M mode**

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Plot Ref. No.
36	5180	16.32	17.00	Mode 7
44	5220	16.77	17.00	Mode 8
48	5240	16.67	17.00	Mode 9
52	5260	19.55	24.00	Mode 10
60	5300	19.13	24.00	Mode 11
64	5320	19.11	24.00	Mode 12

➢ **802.11n(a) BW 40M mode**

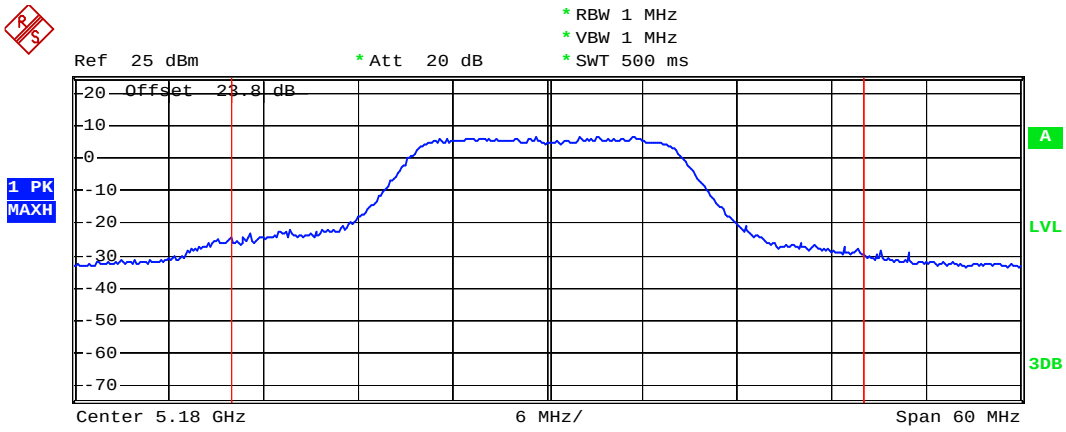
Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Plot Ref. No.
38	5190	16.82	17.00	Mode 13
46	5230	16.84	17.00	Mode 14
54	5270	16.60	24.00	Mode 15
62	5310	16.81	24.00	Mode 16

Comments：

5180MHz 4dBm + 10log(25.38 MHz) = 18.04 dBm for mode 1
5220MHz 4dBm + 10log(23.40 MHz) = 17.69 dBm for mode 2
5240MHz 4dBm + 10log(23.76 MHz) = 17.76 dBm for Mode 3
5260MHz 11dBm + 10log(23.76 MHz) = 24.76 dBm for Mode 4
5300MHz 11dBm + 10log(23.28 MHz) = 24.67 dBm for Mode 5
5320MHz 11dBm + 10log(24.00 MHz) = 24.80 dBm for Mode 6
5180MHz 4dBm + 10log(23.70 MHz) = 17.75 dBm for Mode 7
5220MHz 4dBm + 10log(23.94 MHz) = 17.79 dBm for mode 8
5240MHz 4dBm + 10log(23.58 MHz) = 17.73 dBm for Mode 9
5260MHz 11dBm + 10log(23.64 MHz) = 24.74 dBm for Mode 10
5300MHz 11dBm + 10log(24.00 MHz) = 24.80 dBm for Mode 11
5320MHz 11dBm + 10log(23.88 MHz) = 24.78 dBm for Mode 12
5190MHz 4dBm + 10log(40.92 MHz) = 20.12 dBm for Mode 13
5230MHz 4dBm + 10log(41.64 MHz) = 20.20 dBm for Mode 14
5270MHz 11dBm + 10log(40.92 MHz) = 27.12 dBm for Mode 15
5310MHz 11dBm + 10log(41.04 MHz) = 27.13 dBm for Mode 16

5.3.5 Test Data

Mode 1



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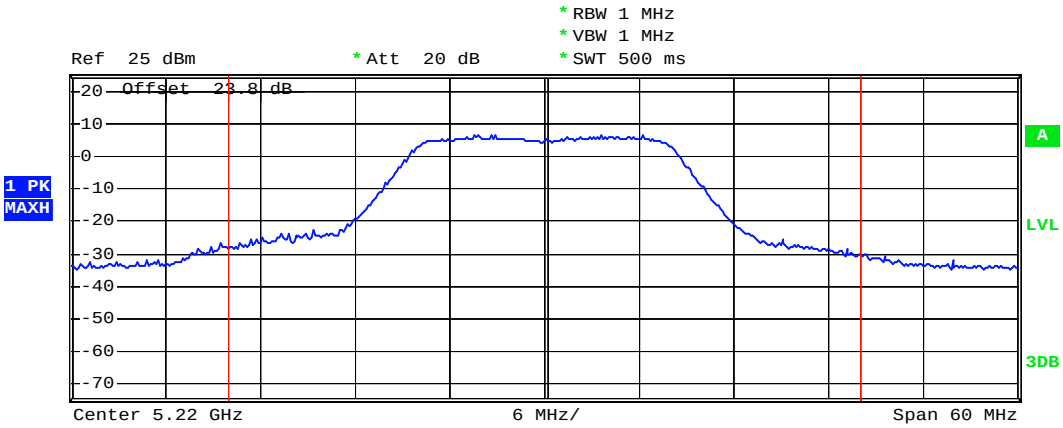
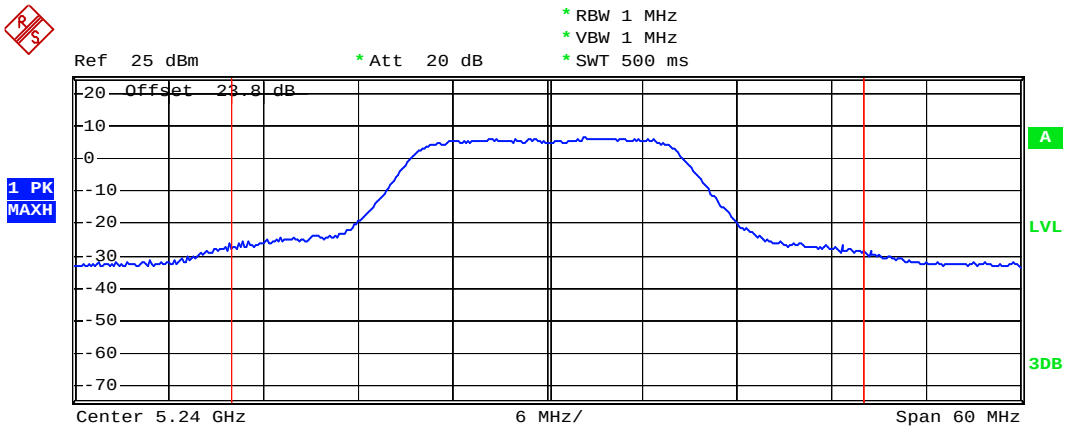


Tx Channel

Bandwidth	40 MHz	Power	16.90 dBm

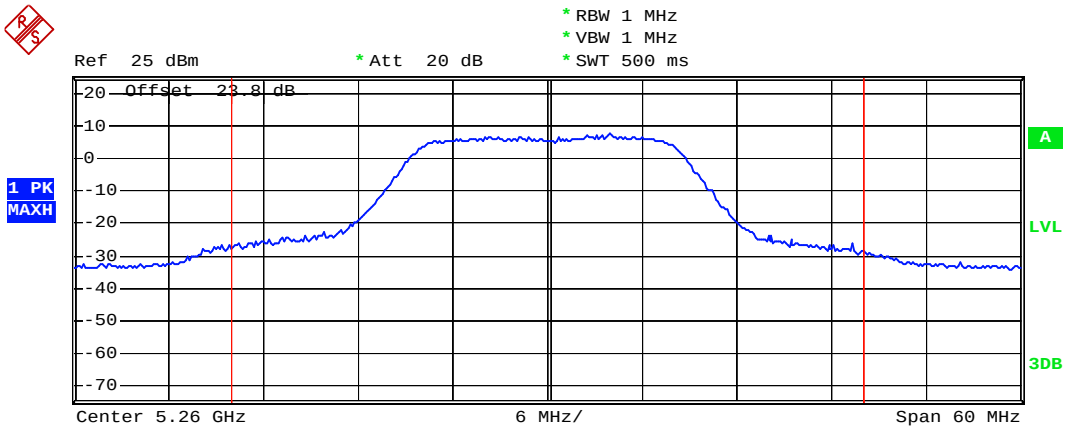
Date: 5.JAN.2008 00:38:45

Mode 3



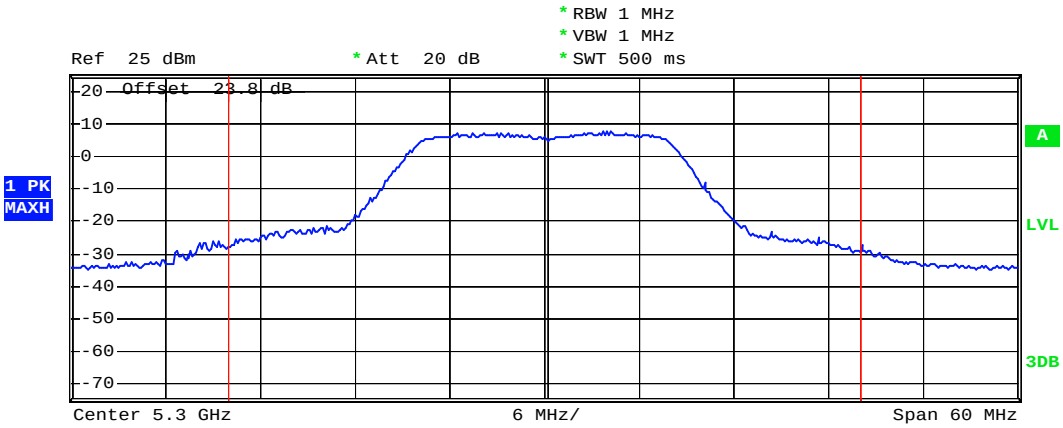
Date: 9.NOV.2007 16:18:58

Mode 4



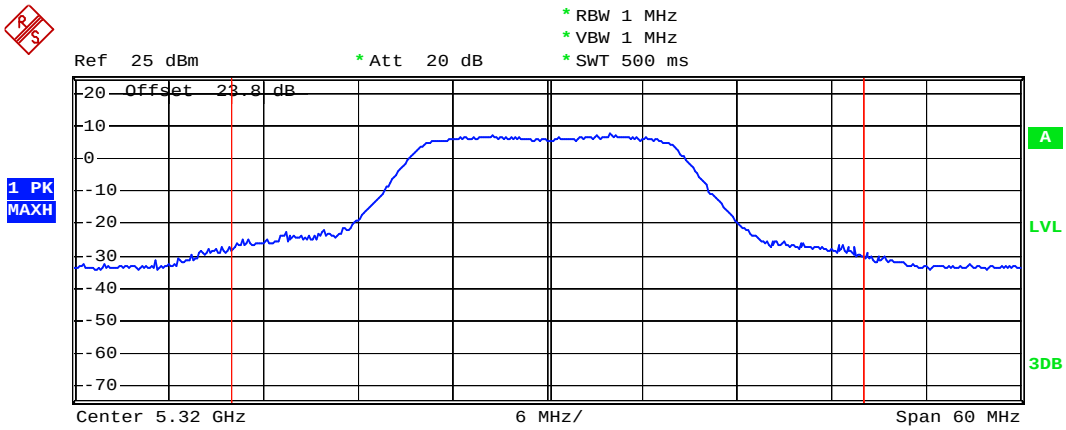
Date: 9.NOV.2007 16:19:53

Mode 5



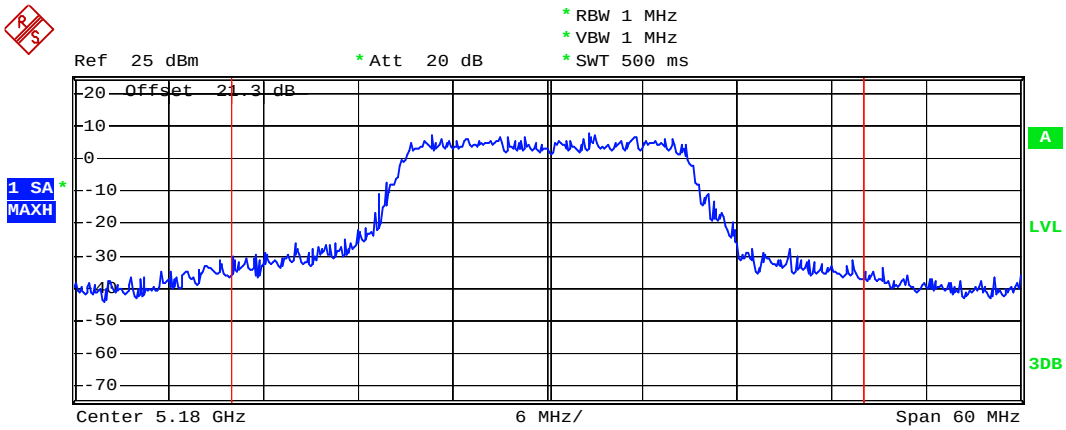
Date: 5.JAN.2008 00:39:41

Mode 6



Date: 9.NOV.2007 16:20:49

Mode 7

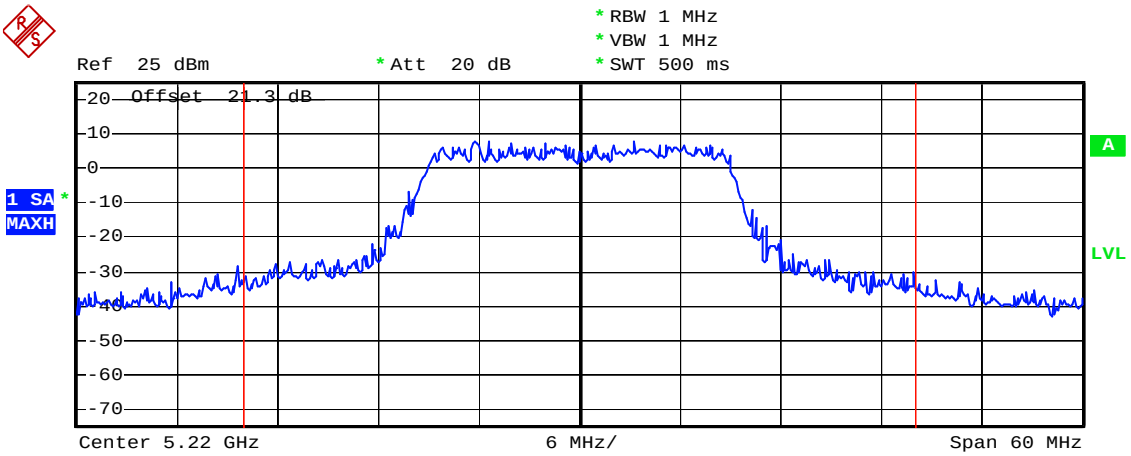


Tx Channel

Bandwidth	40 MHz	Power	16.32 dBm

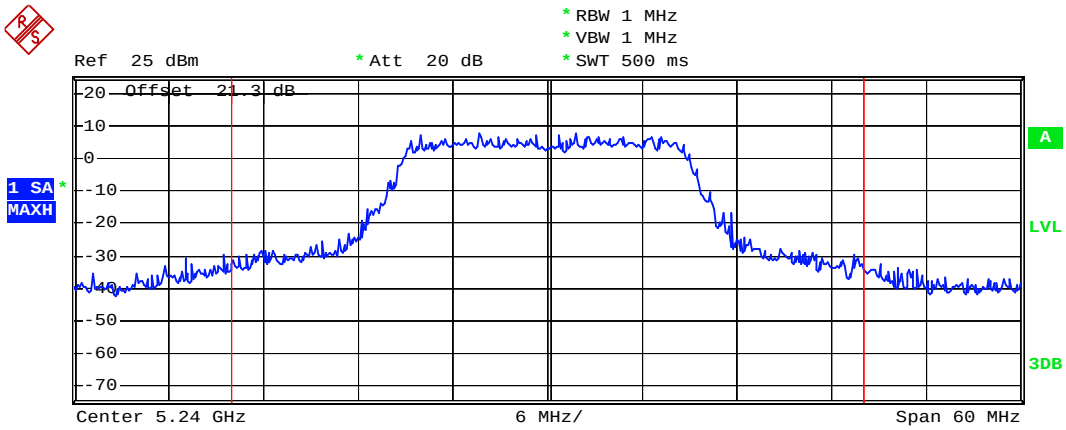
Date: 9.NOV.2007 10:43:05

Mode 8



Date: 7.JAN.2008 17:57:07

Mode 9

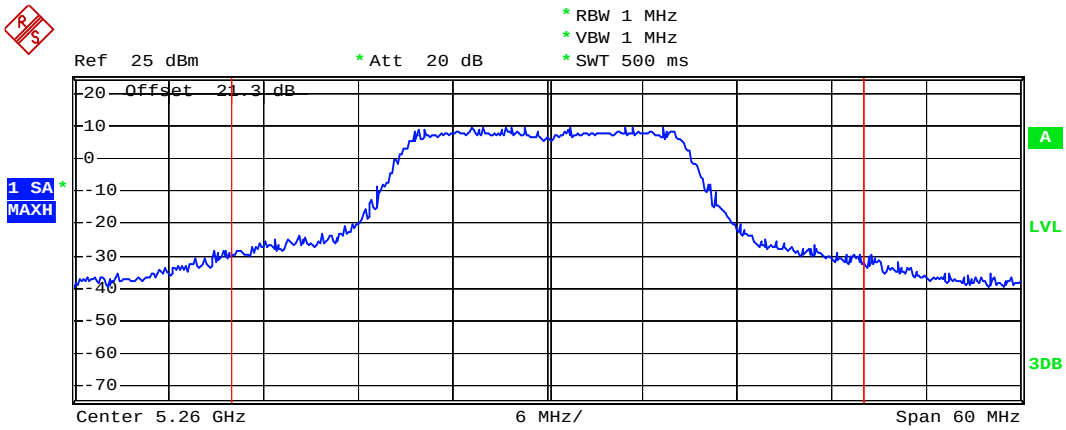


Tx Channel

Bandwidth	40 MHz	Power	16.67 dBm

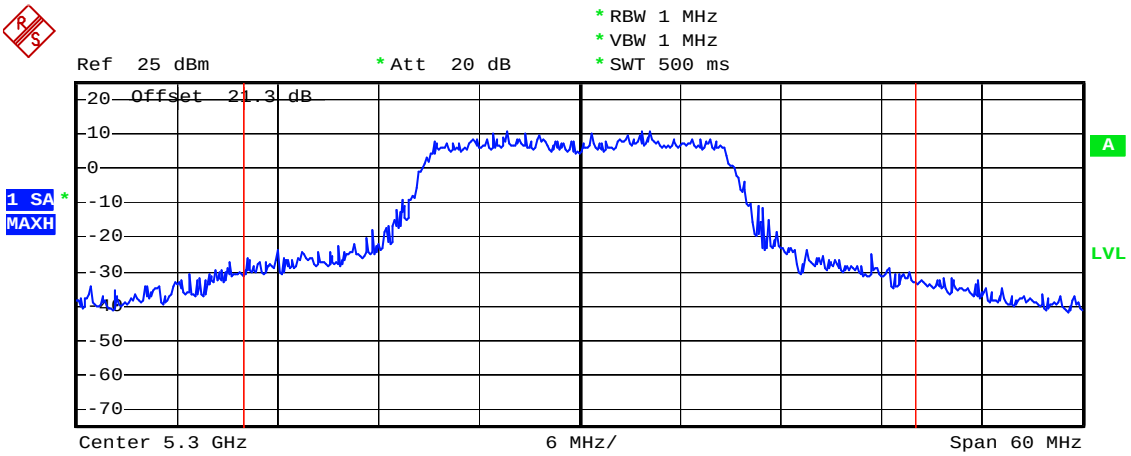
Date: 9.NOV.2007 10:42:33

Mode 10



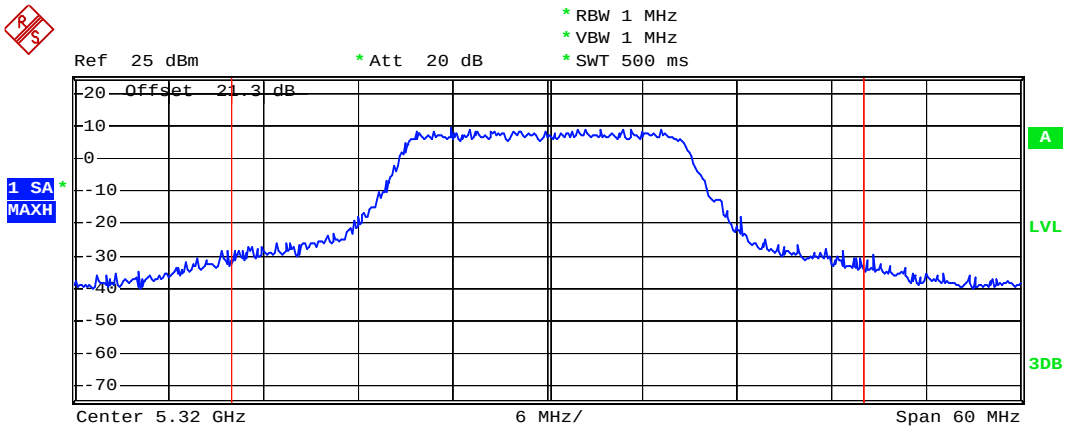
Date: 9.NOV.2007 10:45:20

Mode 11



Date: 7.JAN.2008 17:56:04

Mode 12

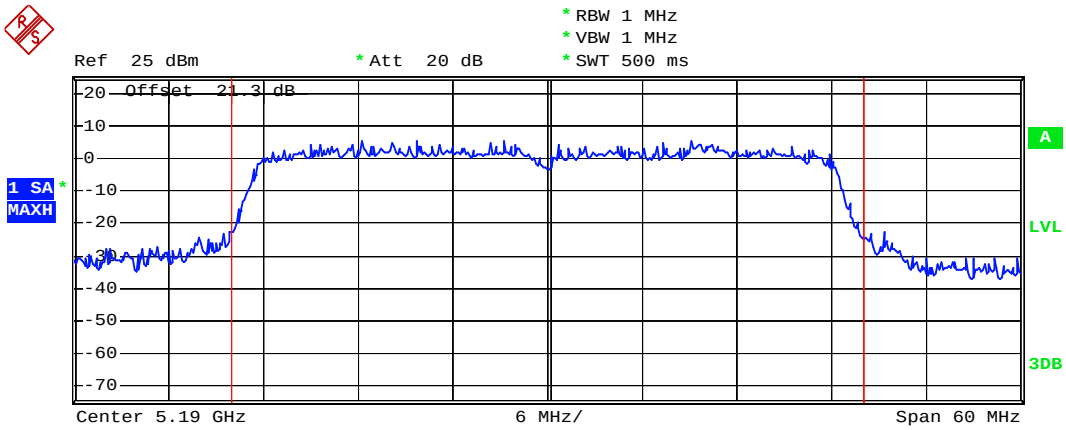


Tx Channel

Bandwidth	40 MHz	Power	19.11 dBm

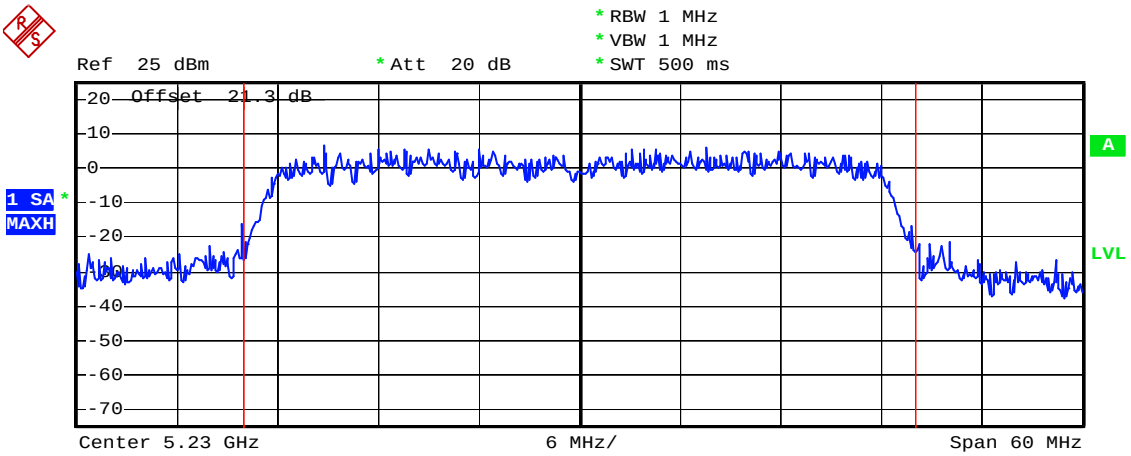
Date: 9.NOV.2007 10:47:09

Mode 13



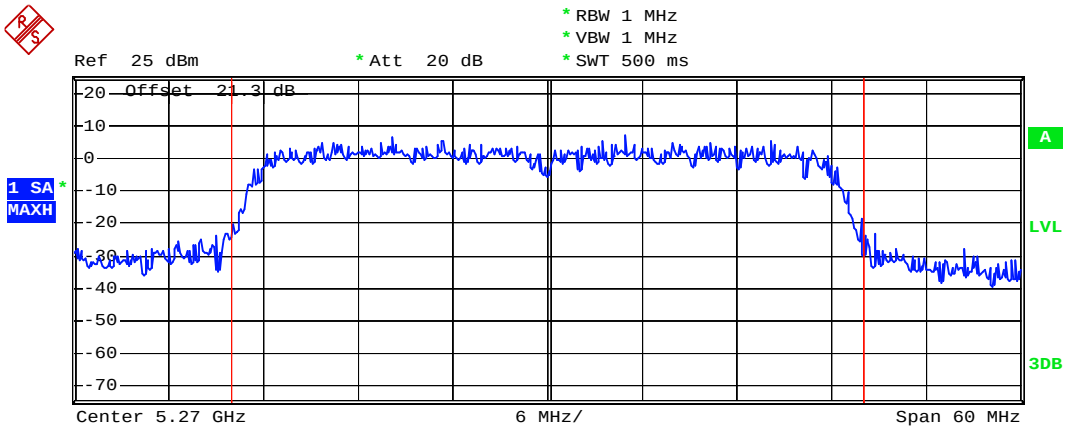
Date: 9.NOV.2007 10:51:40

Mode 14



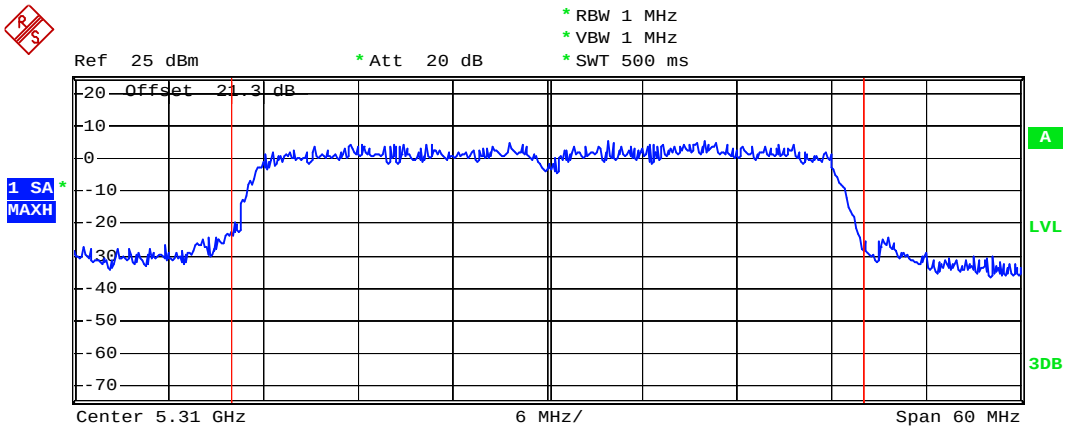
Date: 7.JAN.2008 17:30:42

Mode 15



Date: 9.NOV.2007 10:52:44

Mode 16



Tx Channel

Bandwidth	40 MHz	Power	16.81 dBm

Date: 9.NOV.2007 10:54:23

5.4 Peak Power Spectral Density

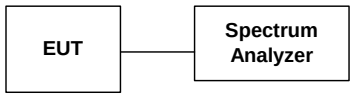
5.4.1 Measuring Instruments

As described in chapter 6 of this test report.

5.4.2 Test Procedure

The transmitter output is connected to the spectrum analyzer. According to the method 3 of DA-02-2138, the resolution bandwidth is set to 1 MHz, video bandwidth is 3MHz, trace average 100 traces in power averaging mode, and sample detection is used, and the analyzer is set for video averaging.

5.4.3 Test Setup Layout



5.4.4 Test Result

- Temperature : 25~26℃
- Relative Humidity :
- Test Engineer : CKC

➢ **802.11a Normal mode**

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
36	5180	-8.50	4	Mode 1
44	5220	-8.99	4	Mode 2
48	5240	-10.17	4	Mode 3
52	5260	-8.93	11	Mode 4
60	5300	-7.96	11	Mode 5
64	5320	-7.90	11	Mode 6

➢ **802.11n(a) BW 20M mode**

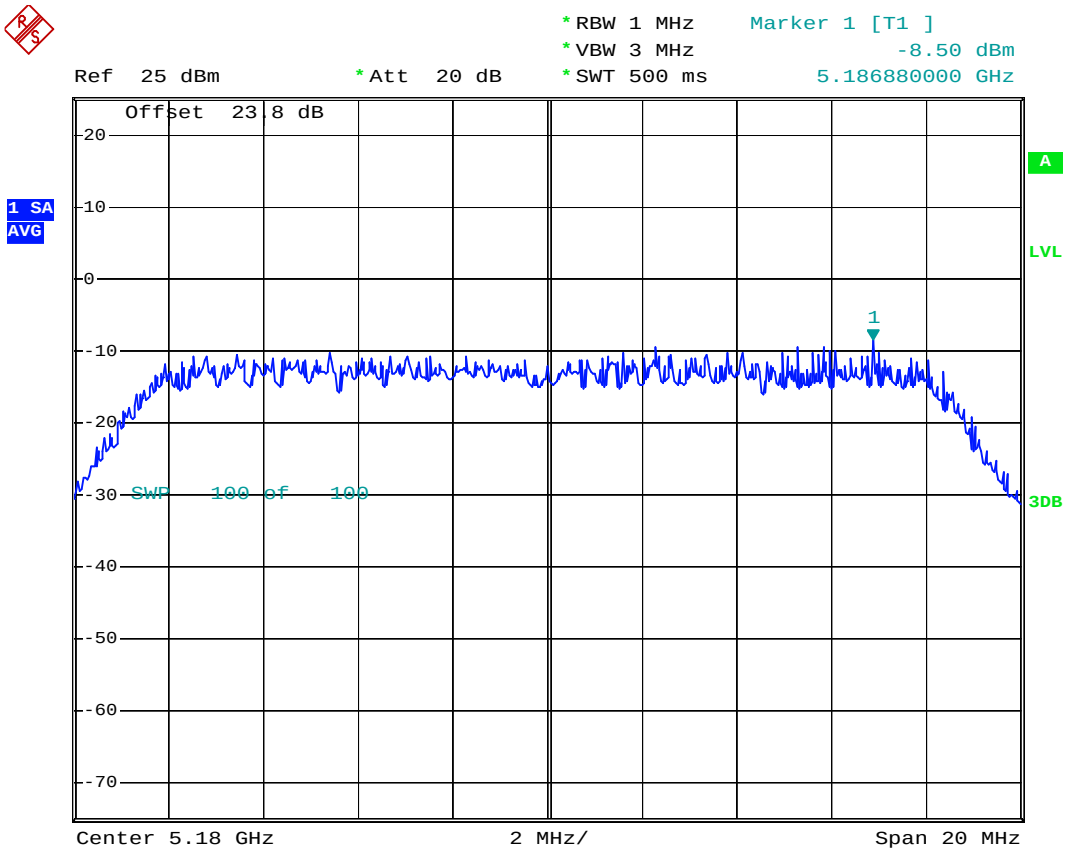
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
36	5180	-3.54	4	Mode 7
44	5220	-4.37	4	Mode 8
48	5240	-3.00	4	Mode 9
52	5260	-3.37	11	Mode 10
60	5300	-3.36	11	Mode 11
64	5320	-2.99	11	Mode 12

➢ **802.11n(a) BW 40M mode**

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
38	5190	-12.42	4	Mode 13
46	5230	-12.30	4	Mode 14
54	5270	-11.66	11	Mode 15
62	5310	-12.72	11	Mode 16

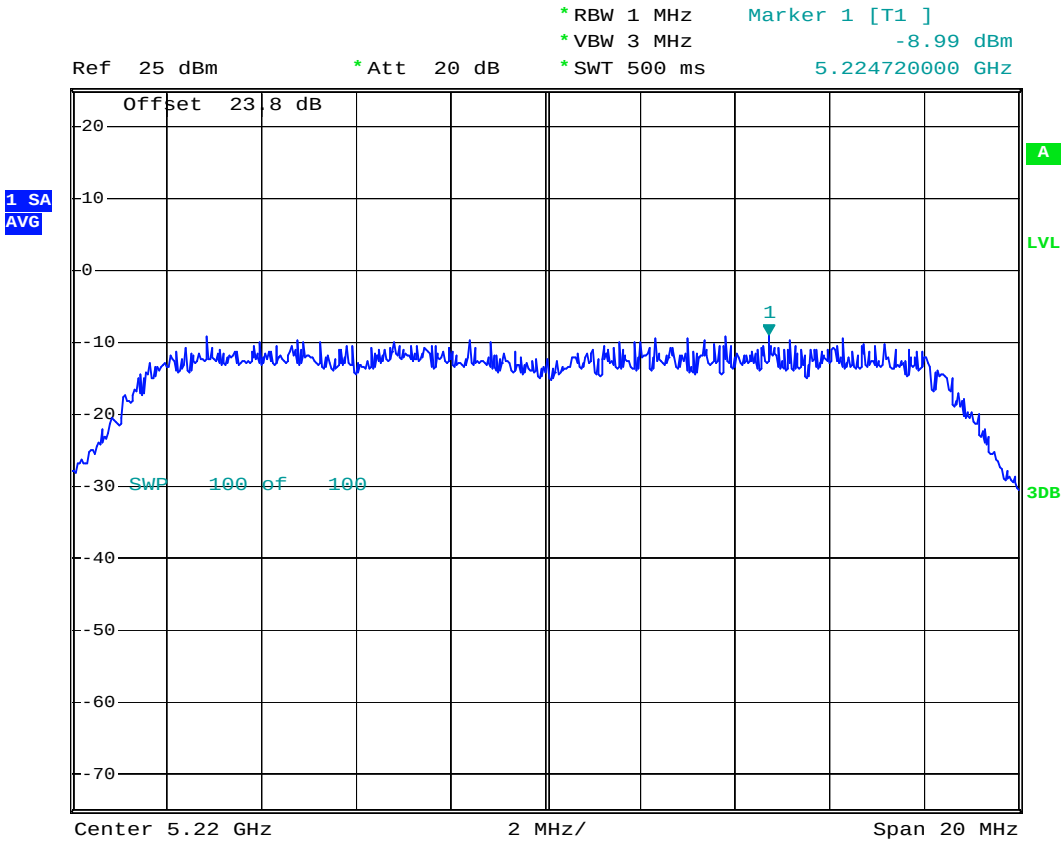
5.4.5 Test Data

Mode 1



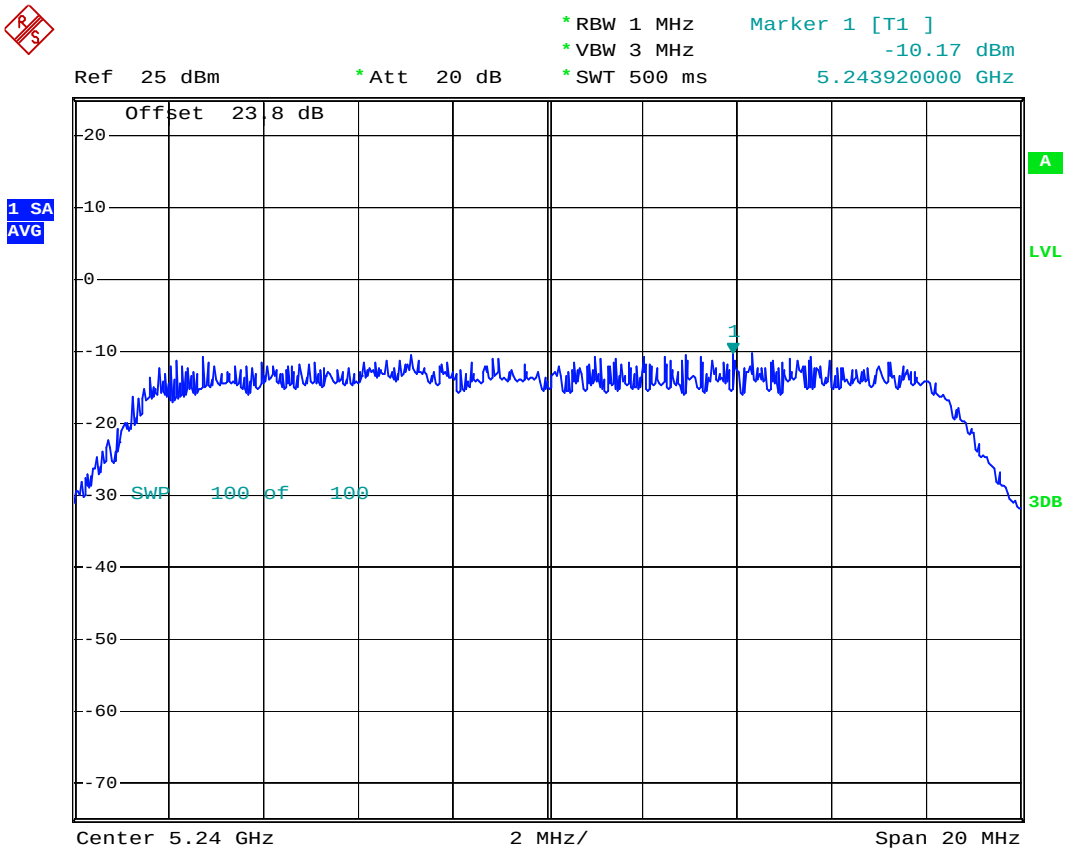
Date: 22.NOV.2007 00:38:46

Mode 2

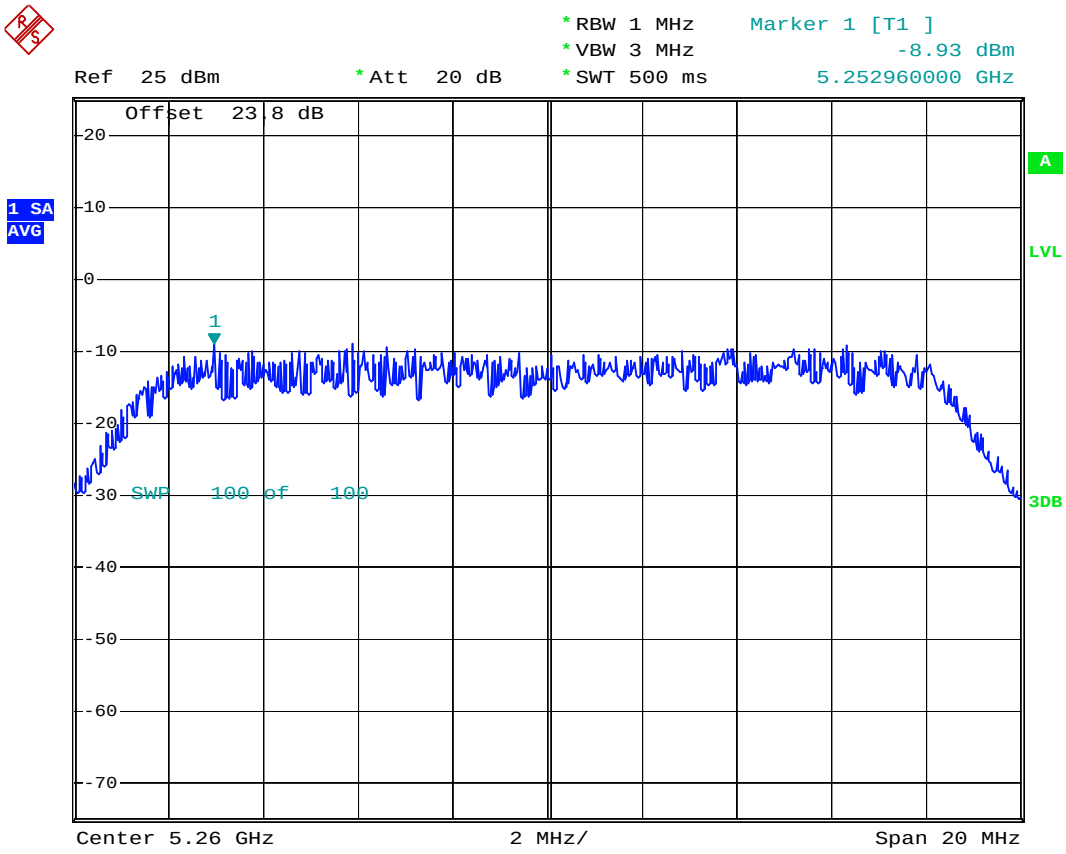


Date: 5.JAN.2008 00:09:04

Mode 3

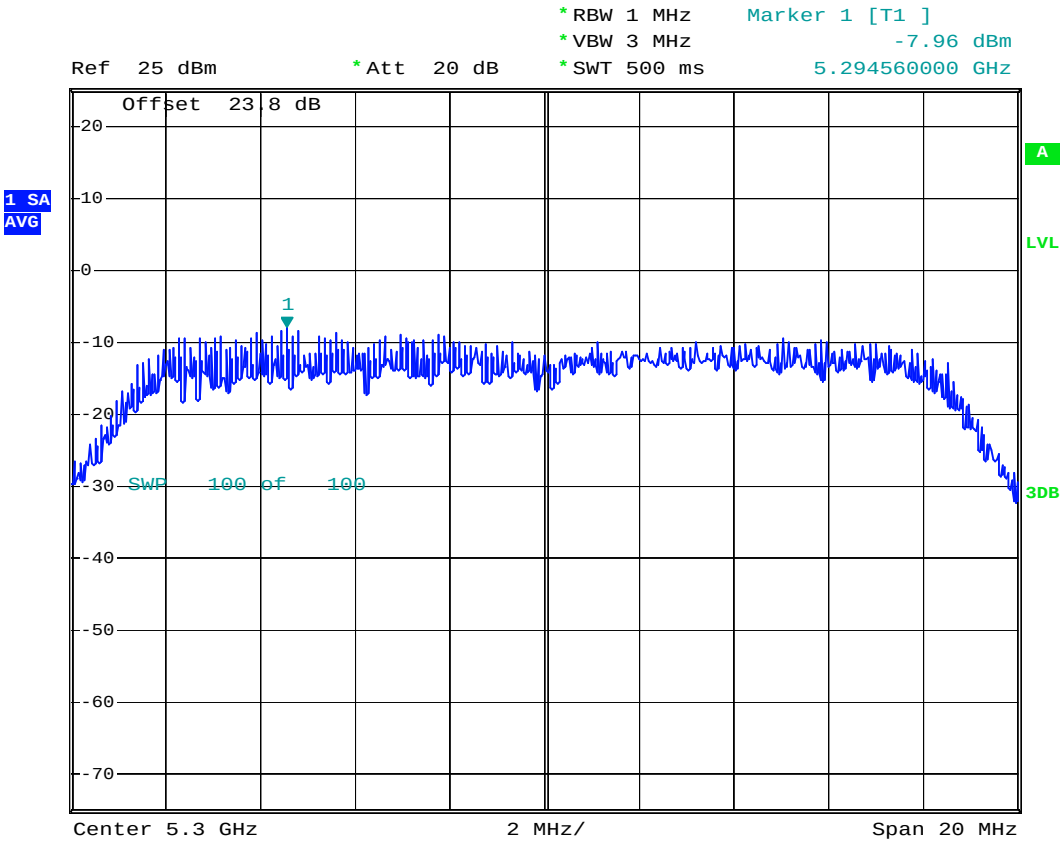

RBW 1 MHz
VBW 3 MHz
SWT 500 ms
Marker 1 [T1]
-10.17 dBm
5.243920000 GHz
Ref 25 dBm
Att 20 dB
Offset 23.8 dB
1 SA
AVG
A
LVL
3DB
SWP 100 of 100
Center 5.24 GHz
2 MHz/
Span 20 MHz
Date: 22.NOV.2007 00:20:57

Mode 4

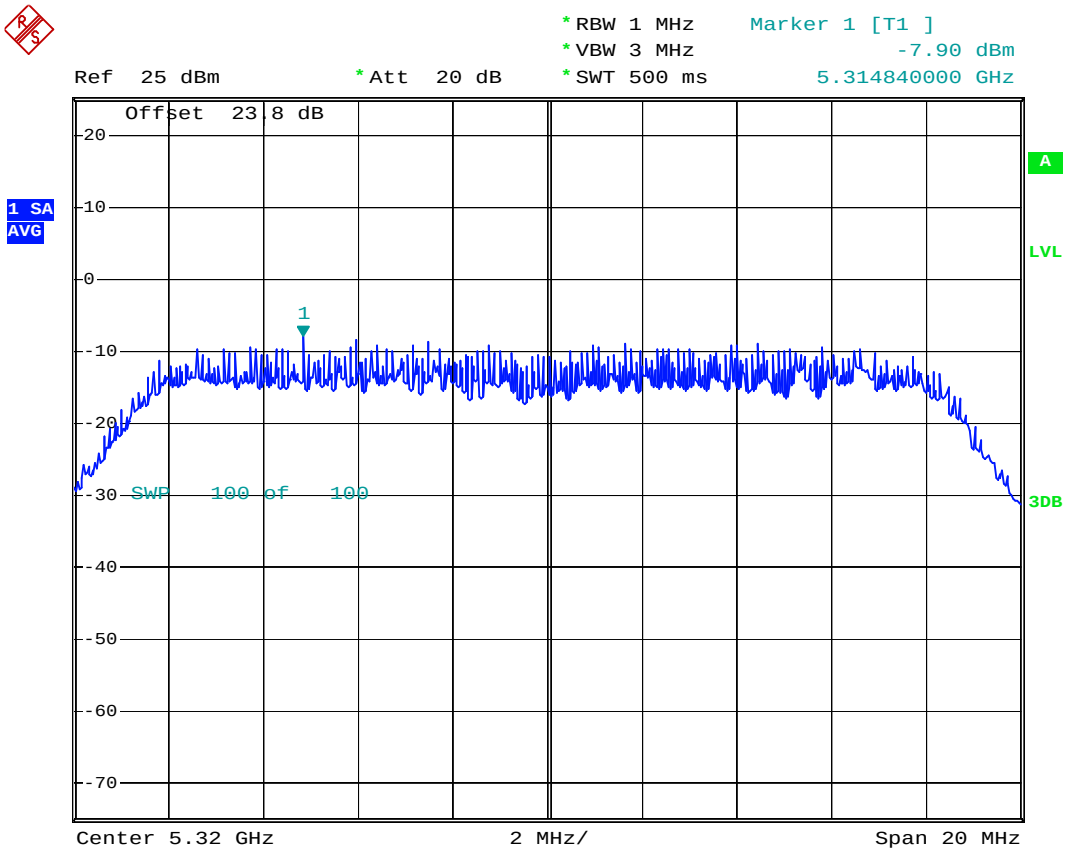


Date: 22.NOV.2007 00:18:47

Mode 5

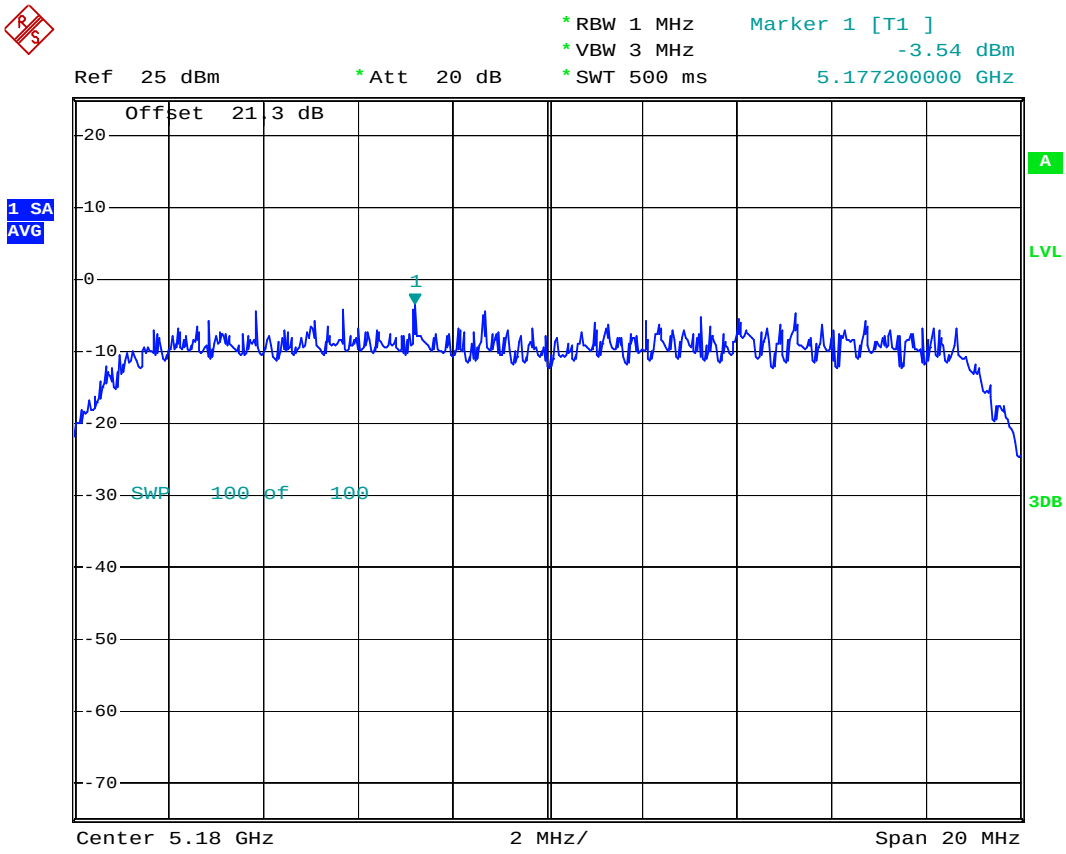

*RBW 1 MHz
*VBW 3 MHz
*SWT 500 ms
Marker 1 [T1]
-7.96 dBm
5.294560000 GHz
Ref 25 dBm
*Att 20 dB
Offset 23.8 dB
1 SA
AVG
A
LVL
3DB
SWP 100 of 100
Center 5.3 GHz
2 MHz/
Span 20 MHz
Date: 5.JAN.2008 00:12:53

Mode 6



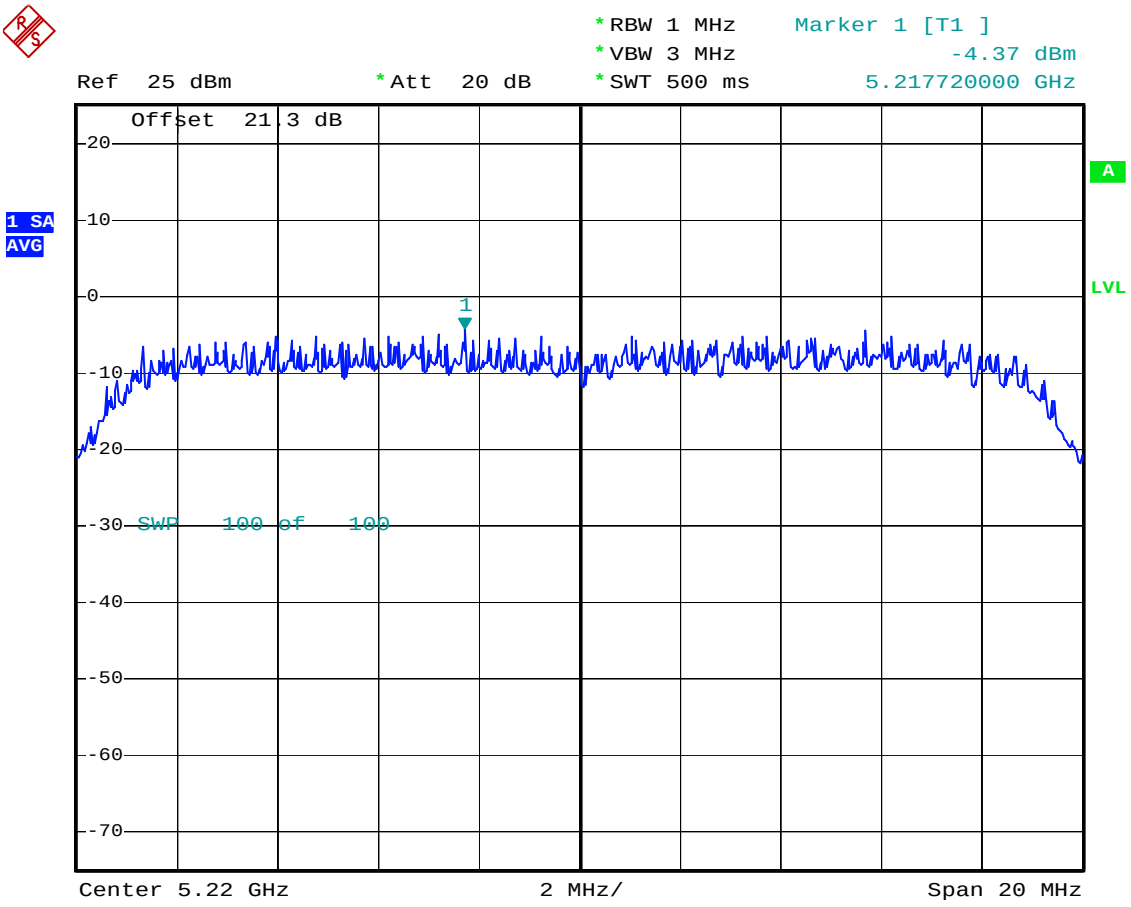
Date: 22.NOV.2007 00:16:41

Mode 7



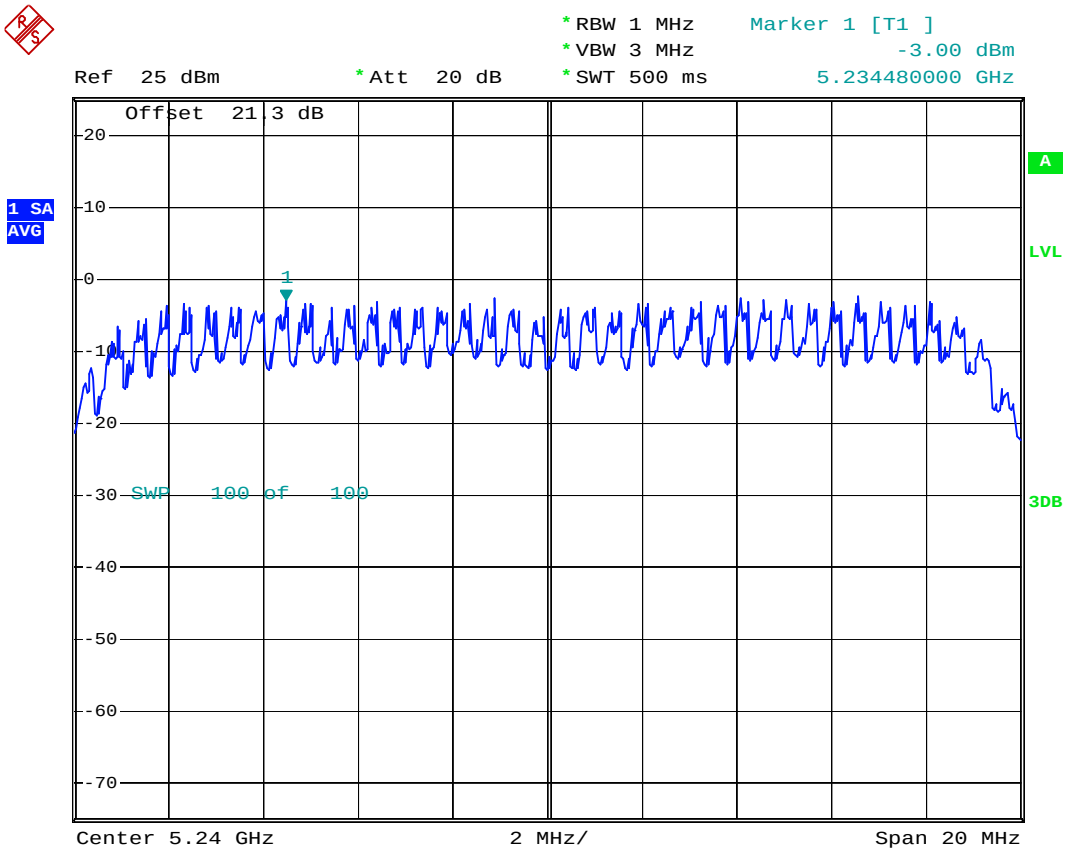
Date: 22.NOV.2007 01:28:37

Mode 8



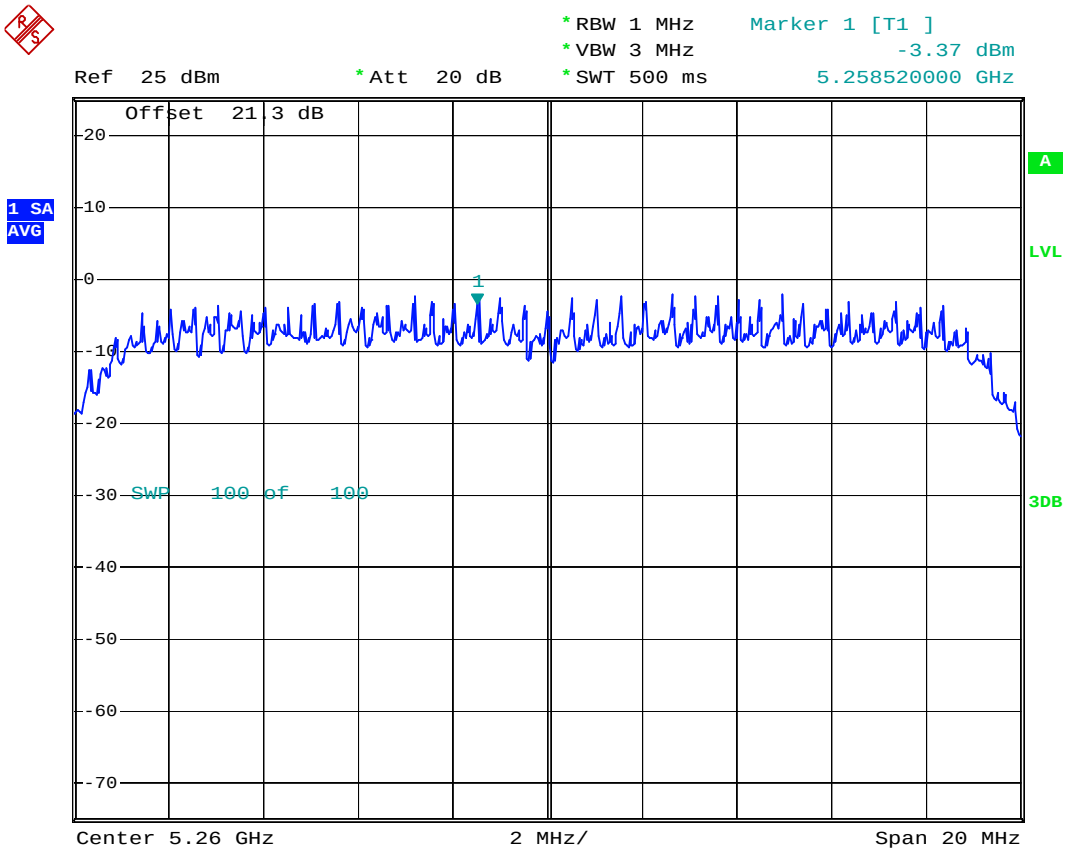
Date: 7.JAN.2008 17:59:00

Mode 9



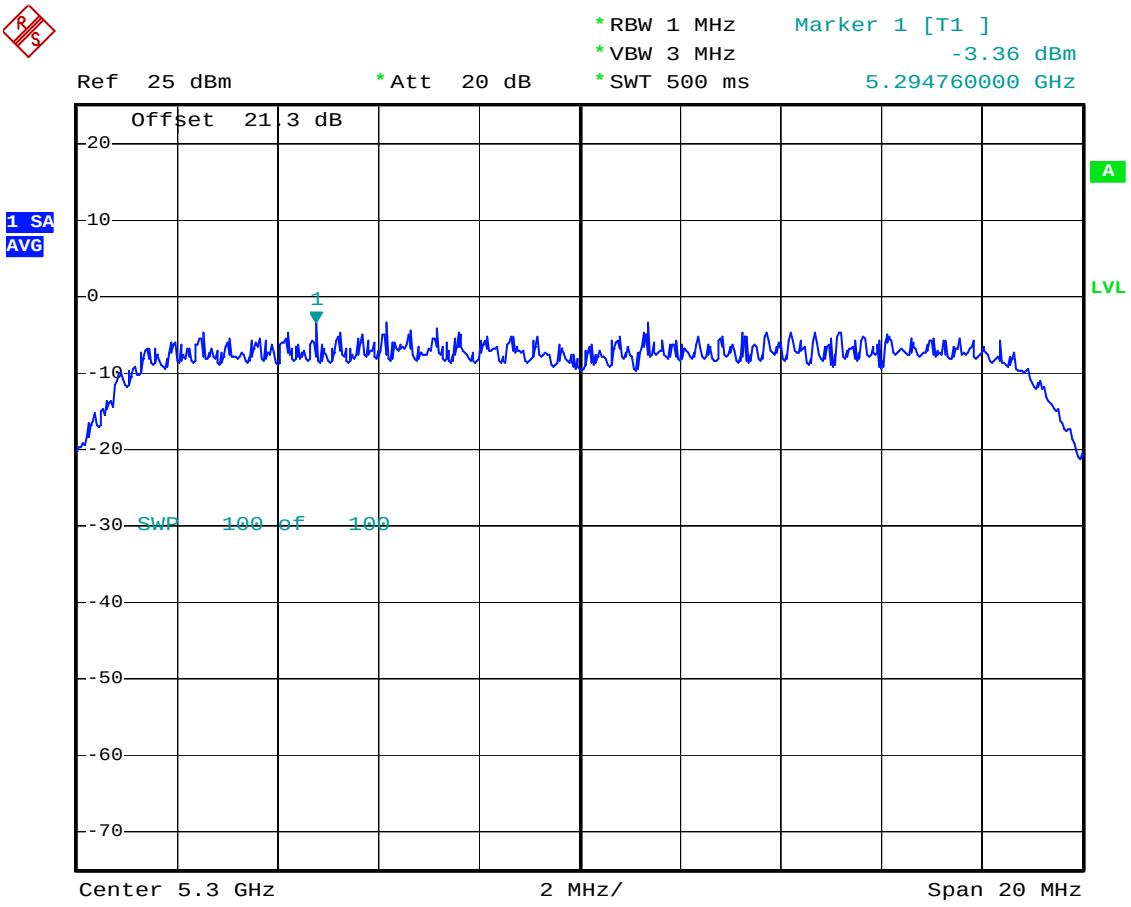
Date: 8.NOV.2007 13:23:59

Mode 10



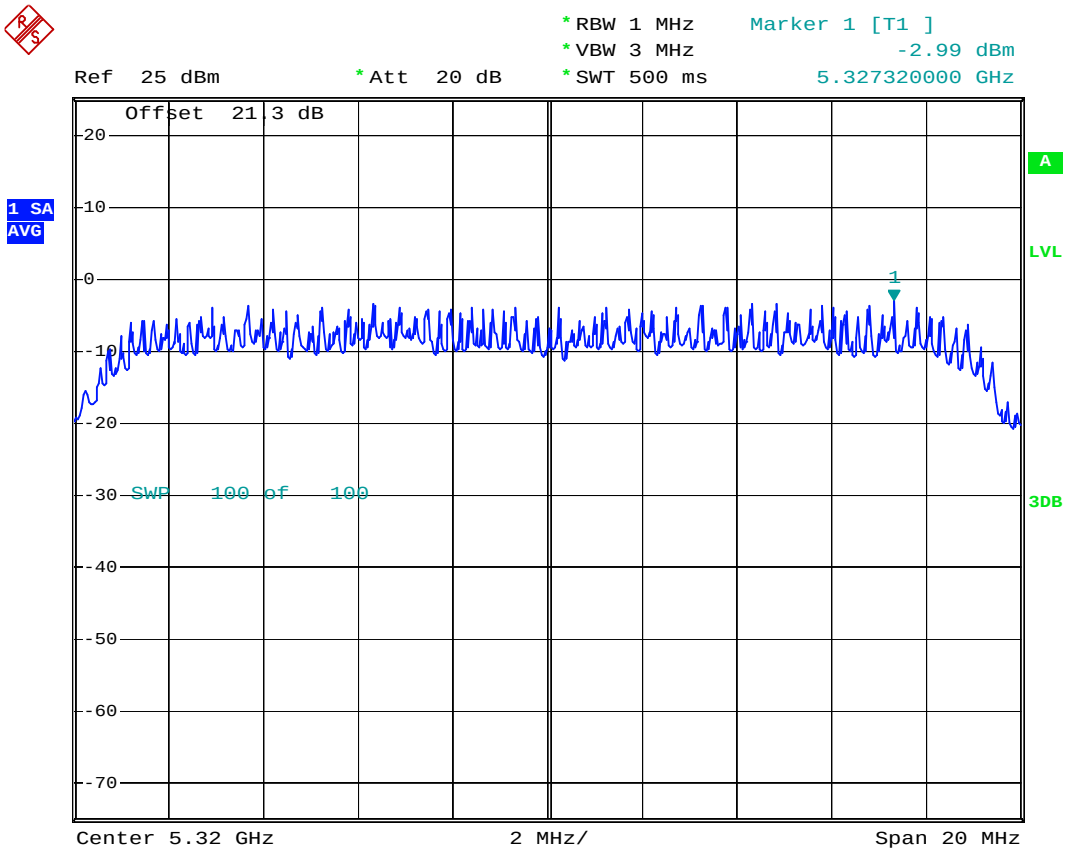
Date: 9.NOV.2007 10:05:07

Mode 11



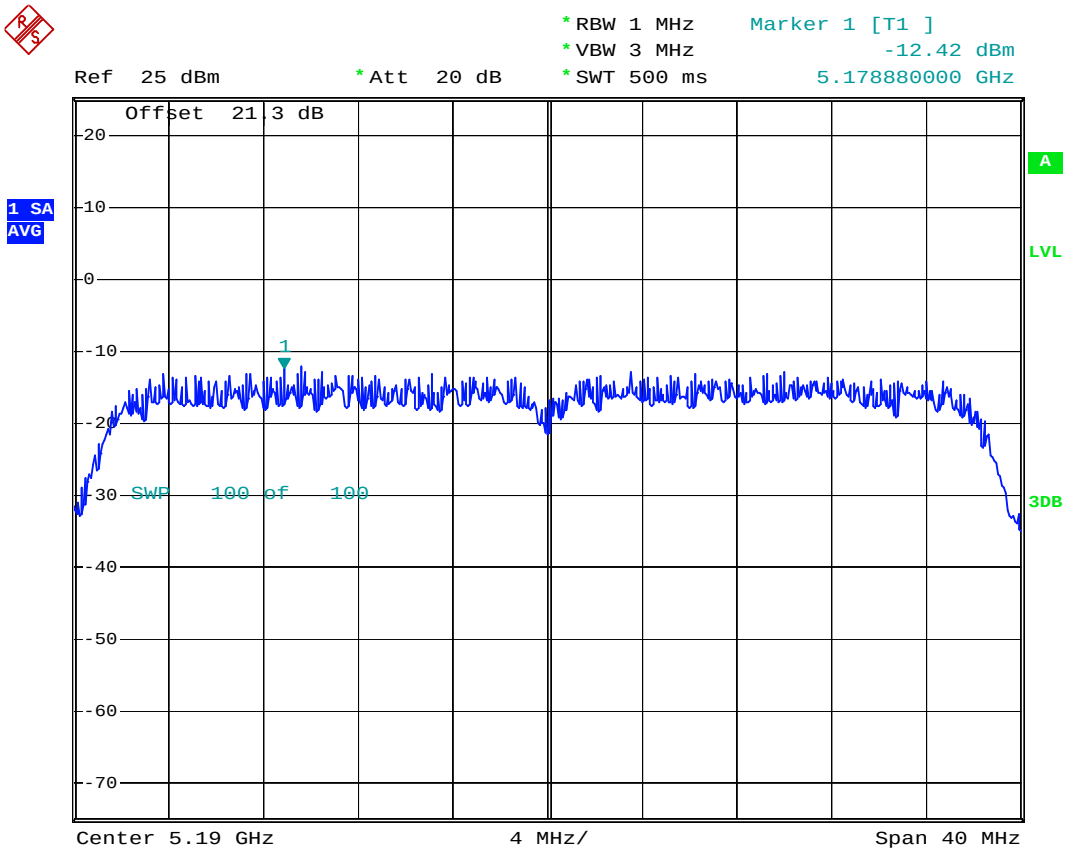
Date: 7.JAN.2008 18:03:43

Mode 12



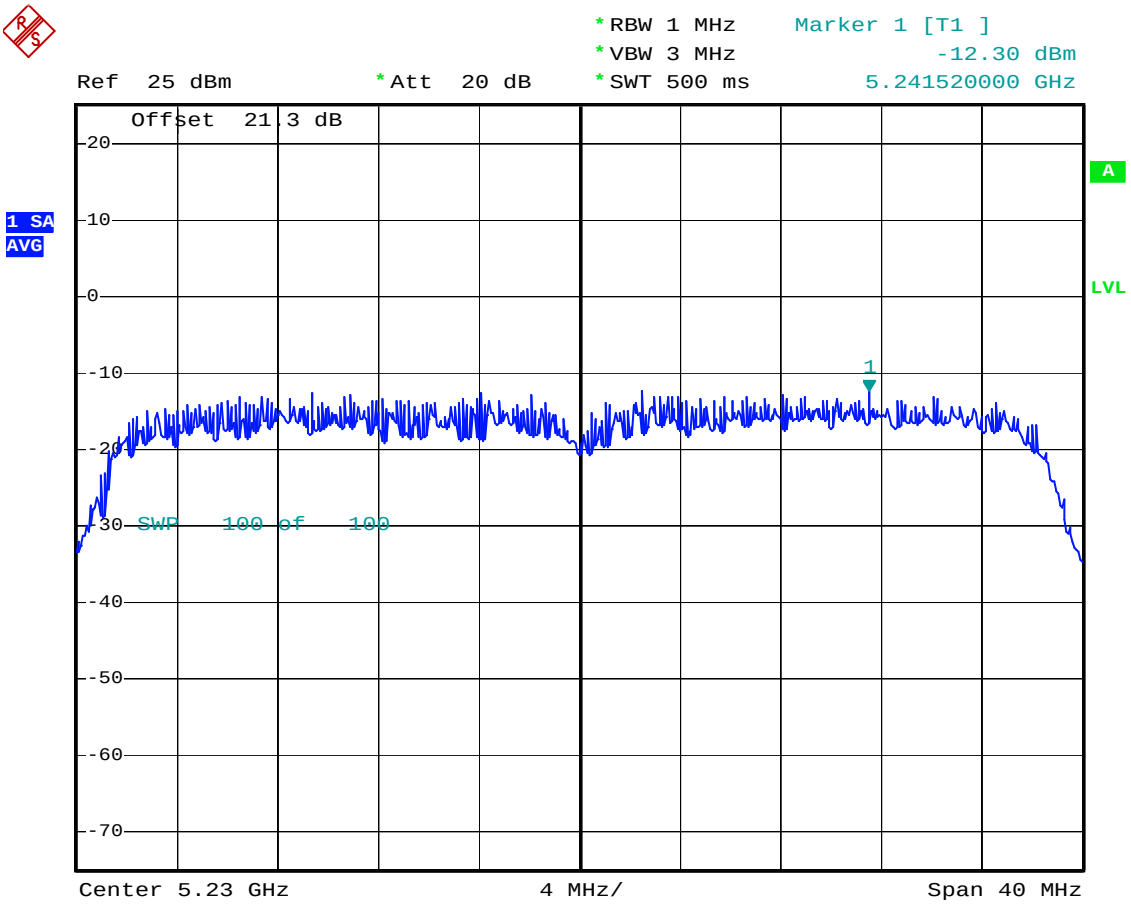
Date: 8.NOV.2007 13:37:10

Mode 13



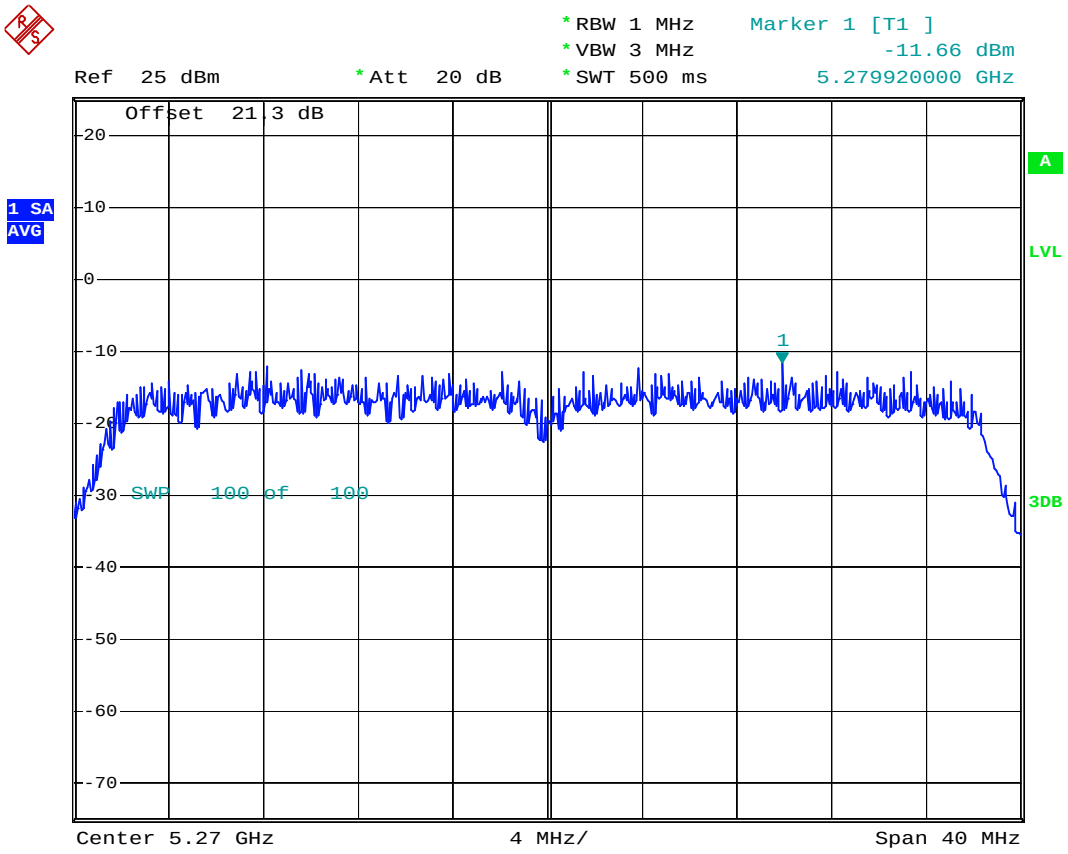
Date: 9.NOV.2007 10:32:34

Mode 14



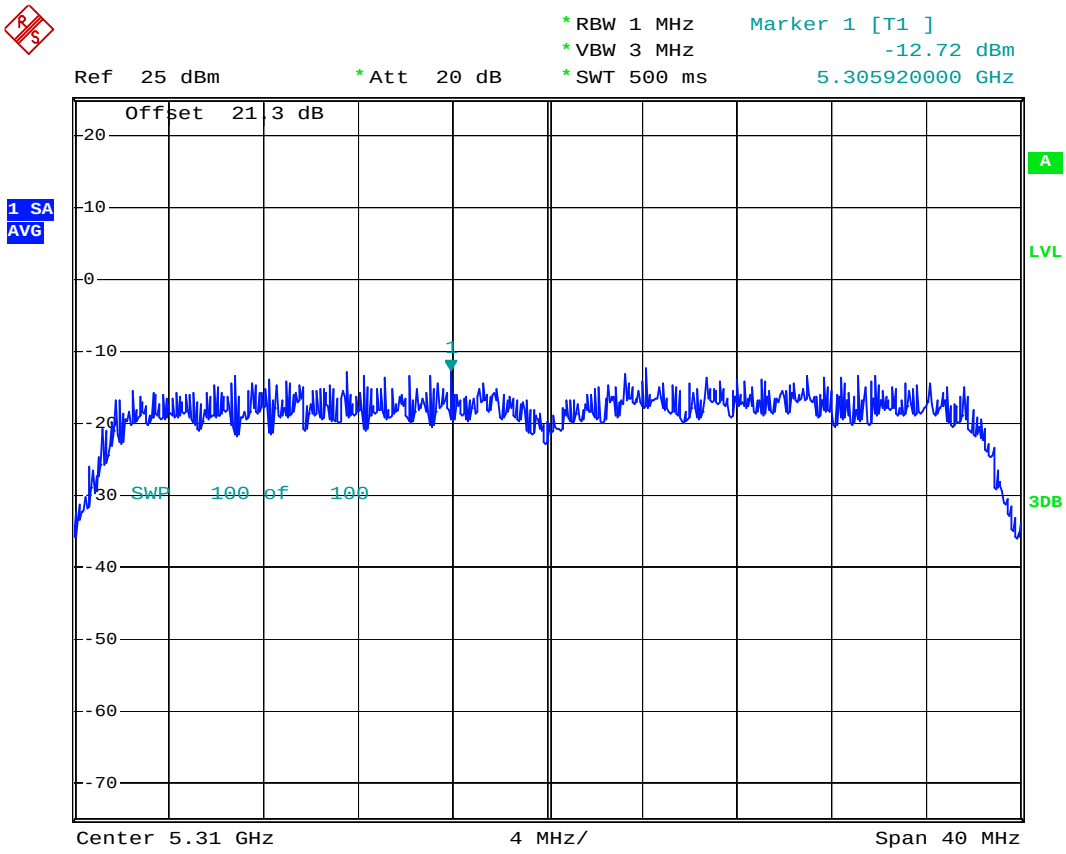
Date: 7.JAN.2008 17:36:09

Mode 15



Date: 9.NOV.2007 10:10:38

Mode 16



Date: 9.NOV.2007 10:18:28

5.5 Test of Conducted Emission

As described in chapter 6 of this test report.

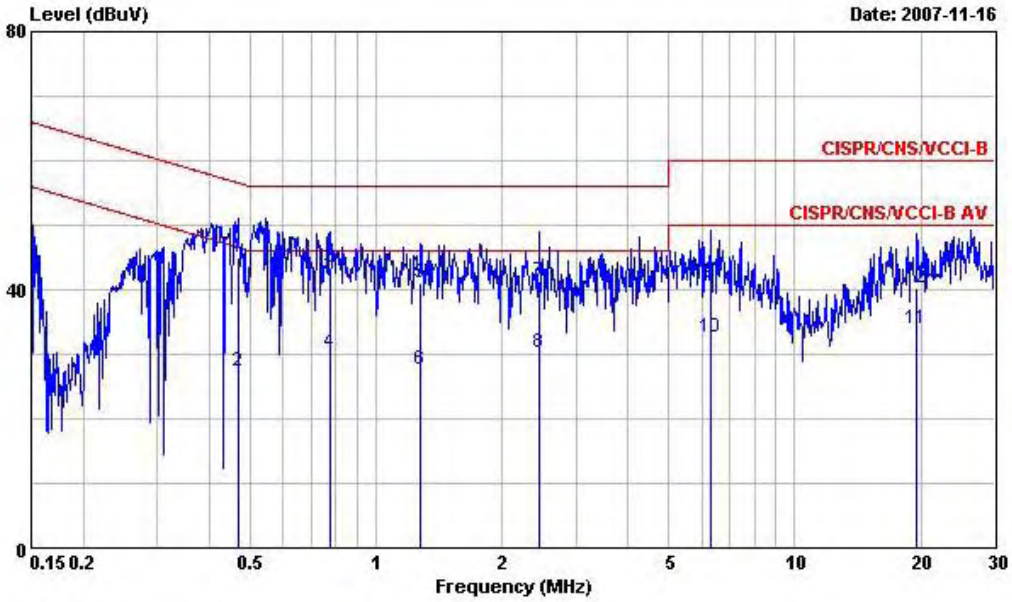
5.5.1 Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power port of a line impedance stabilization network (LISN).
c. All the support units are connected to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

5.5.2 Test Data

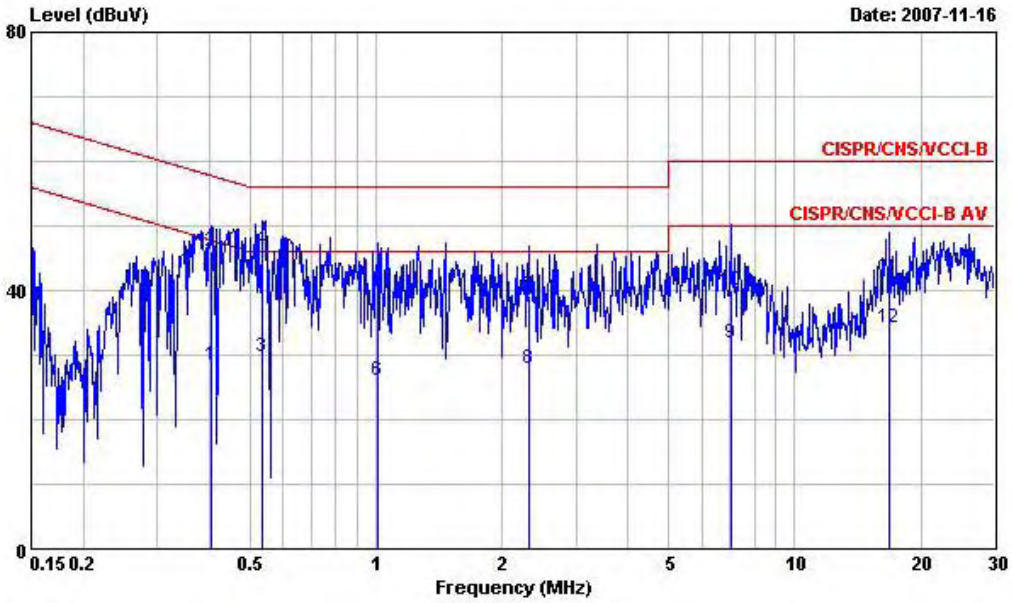
- Frequency Range of Test : 150kHz to 30 MHz
- Test Mode : Mode 1
- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
EUT : N/B
POWER: 120V/60Hz
Model : FR701819
Memo : WLAN Link+BT Link+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.4686110	45.06	-11.48	56.54	44.28	0.10	0.68	QP
2	@0.4686110	27.40	-19.14	46.54	26.62	0.10	0.68	Average
3	@0.7751940	43.30	-12.70	56.00	42.68	0.10	0.52	QP
4	@0.7751940	30.23	-15.77	46.00	29.61	0.10	0.52	Average
5	@ 1.280	41.04	-14.96	56.00	40.50	0.10	0.44	QP
6	@ 1.280	27.56	-18.44	46.00	27.02	0.10	0.44	Average
7	@ 2.460	41.28	-14.72	56.00	40.78	0.10	0.40	QP
8	@ 2.460	30.33	-15.67	46.00	29.83	0.10	0.40	Average
9	@ 6.290	41.15	-18.85	60.00	40.73	0.15	0.27	QP
10	@ 6.290	32.76	-17.24	50.00	32.34	0.15	0.27	Average
11	@ 19.530	33.87	-16.13	50.00	33.59	0.23	0.05	Average
12	@ 19.530	40.17	-19.83	60.00	39.89	0.23	0.05	QP



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
EUT : N/B
POWER: 120V/60Hz
Model : FR7O1819
Memo : WLAN Link+BT Link+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.4040020	28.40	-19.37	47.77	27.57	0.10	0.73	Average
2	@0.4040020	46.07	-11.70	57.77	45.24	0.10	0.73	QP
3	@0.5349810	29.63	-16.37	46.00	28.89	0.10	0.64	Average
4	@0.5349810	46.41	-9.59	56.00	45.67	0.10	0.64	QP
5	@ 1.010	40.07	-15.93	56.00	39.53	0.10	0.44	QP
6	@ 1.010	26.15	-19.85	46.00	25.61	0.10	0.44	Average
7	@ 2.310	39.29	-16.71	56.00	38.76	0.12	0.41	QP
8	@ 2.310	28.02	-17.98	46.00	27.49	0.12	0.41	Average
9	@ 7.020	31.84	-18.16	50.00	31.32	0.26	0.26	Average
10	@ 7.020	40.10	-19.90	60.00	39.58	0.26	0.26	QP
11	@ 16.840	41.99	-18.01	60.00	41.59	0.30	0.10	QP
12	@ 16.840	34.32	-15.68	50.00	33.92	0.30	0.10	Average

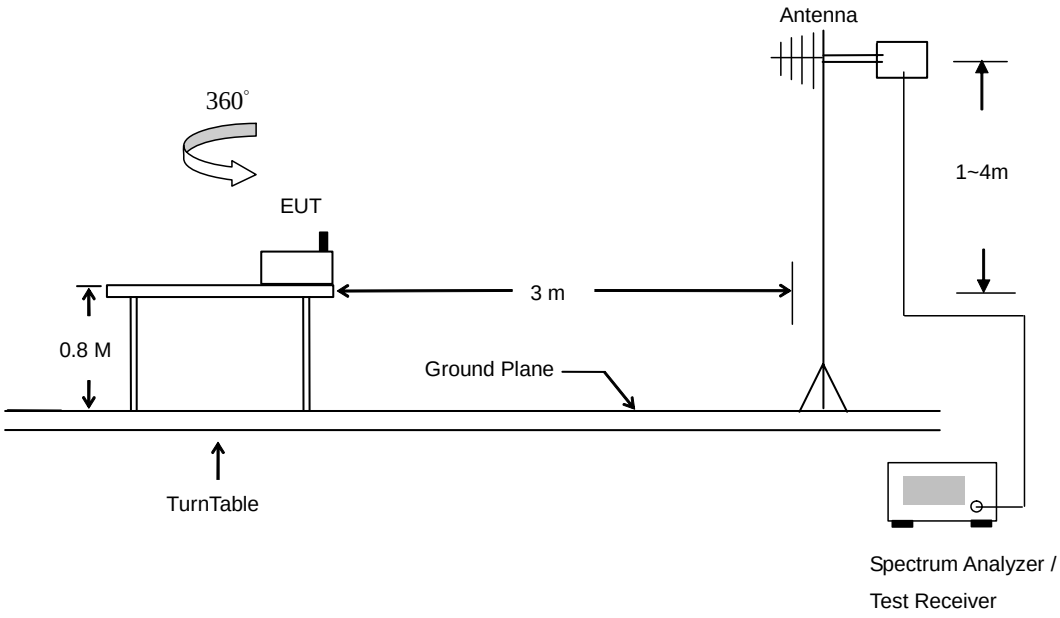
5.6 Test of Radiated Emission

As described in chapter 6 of this test report.

5.6.1 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.6.2 Typical Test Setup Layout of Radiated Emission

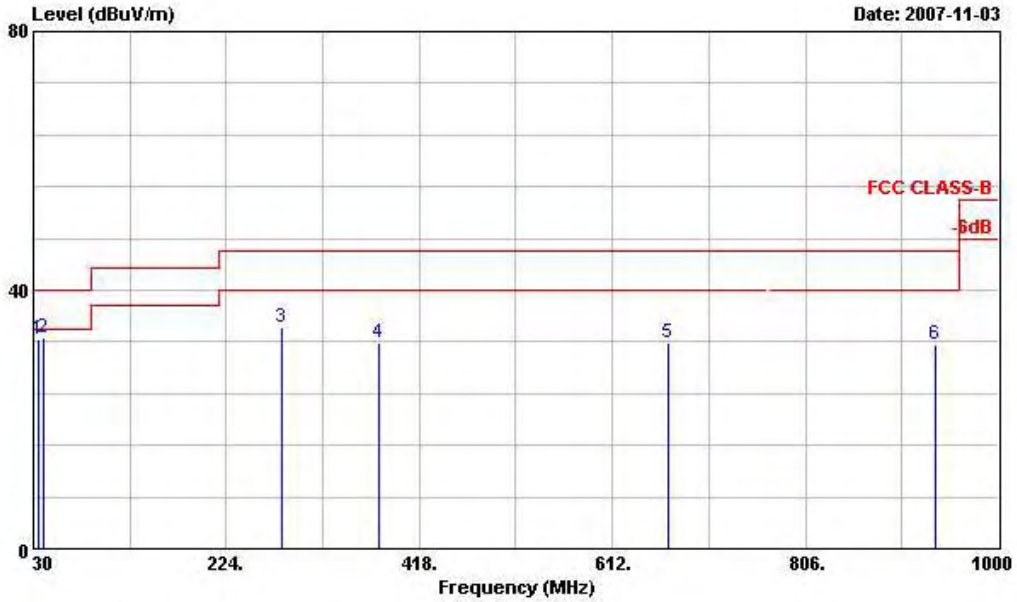


5.6.3 Test Data

➢ Test Mode : Mode 1

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : Drerk
- Polarization : Horizontal

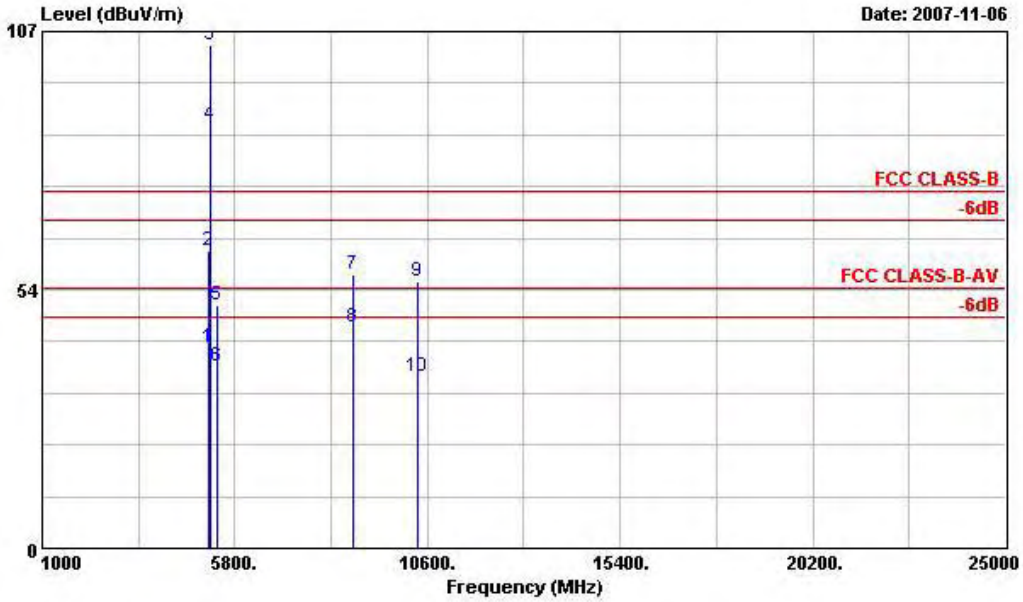
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 7O1819
MEMO :802.11a TX_CH36;5180MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.130	32.43	-7.57	40.00	41.88	16.29	0.91	26.65	---	---	Peak
2	39.450	32.67	-7.33	40.00	46.53	11.82	0.96	26.64	100	117	Peak
3	280.290	34.15	-11.85	46.00	45.37	12.41	2.17	25.80	---	---	Peak
4	377.000	31.80	-14.20	46.00	40.57	14.98	2.49	26.25	---	---	Peak
5	668.200	31.93	-14.07	46.00	35.44	20.06	3.45	27.02	---	---	Peak
6	937.000	31.69	-14.31	46.00	29.85	24.45	3.98	26.58	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



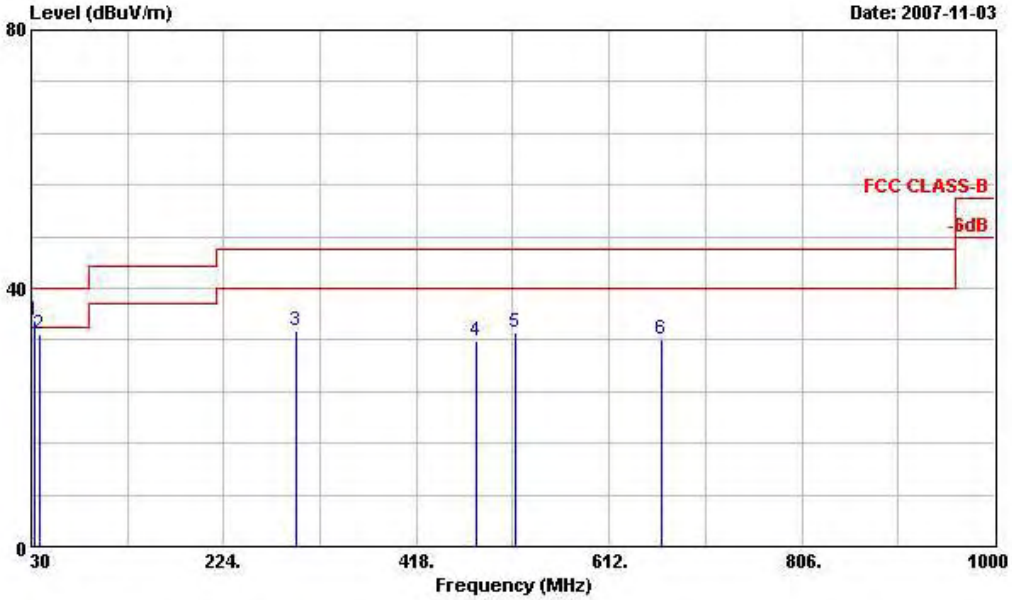
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH36;5180MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		5150.000	41.67	-12.33	54.00	36.53	33.38	6.00	34.24	100	350	Average
2		5150.000	61.60	-12.40	74.00	56.46	33.38	6.00	34.24	100	0	Peak
3	X	5180.000	104.09			98.90	33.42	6.00	34.23	100	0	Peak
4	@	5180.000	87.65			82.46	33.42	6.00	34.23	100	350	Average
5		5350.000	50.36	-23.64	74.00	44.89	33.62	6.00	34.15	100	0	Peak
6		5350.000	37.63	-16.37	54.00	32.16	33.62	6.00	34.15	100	350	Average
7		8758.000	56.54	-17.46	74.00	46.19	37.80	7.15	34.60	100	0	Peak
8		8758.000	45.71	-8.29	54.00	35.36	37.80	7.15	34.60	100	138	Average
9		10362.000	55.30	-18.70	74.00	90.88	-8.72	7.80	34.65	100	0	Peak
10		10362.000	35.46	-18.54	54.00	71.04	-8.72	7.80	34.65	100	4	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

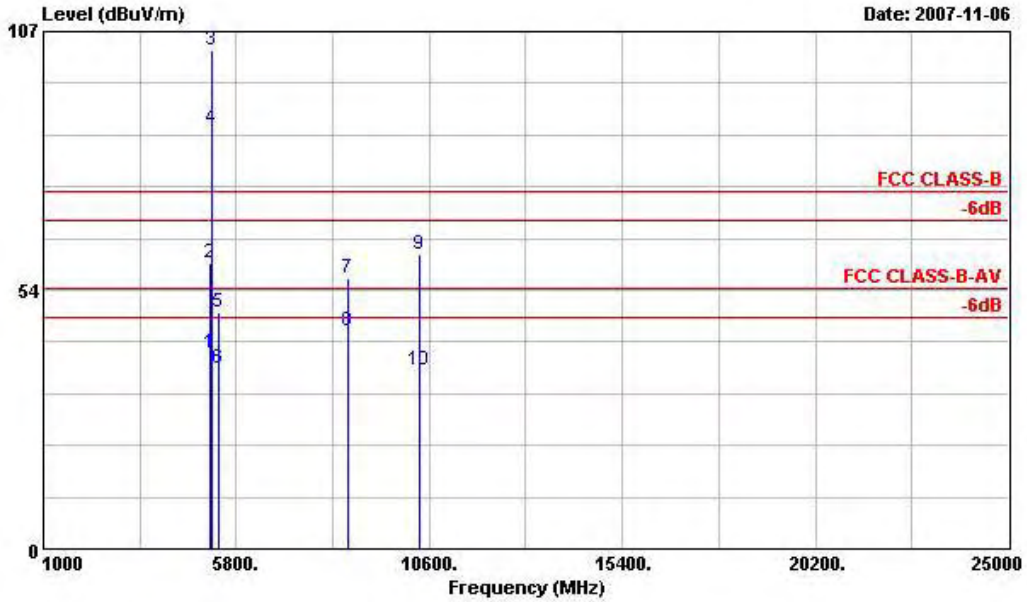
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH36;5180MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.700	35.05	-4.95	40.00	44.49	16.33	0.90	26.66	100	175	Peak
2	38.370	32.95	-7.05	40.00	45.93	12.71	0.95	26.64	---	---	Peak
3	296.220	33.35	-12.65	46.00	44.53	12.33	2.23	25.74	---	---	Peak
4	478.500	31.78	-14.22	46.00	39.29	16.65	2.77	26.94	---	---	Peak
5	517.700	33.03	-12.97	46.00	39.79	17.43	2.88	27.07	---	---	Peak
6	665.400	32.02	-13.98	46.00	35.54	20.06	3.45	27.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



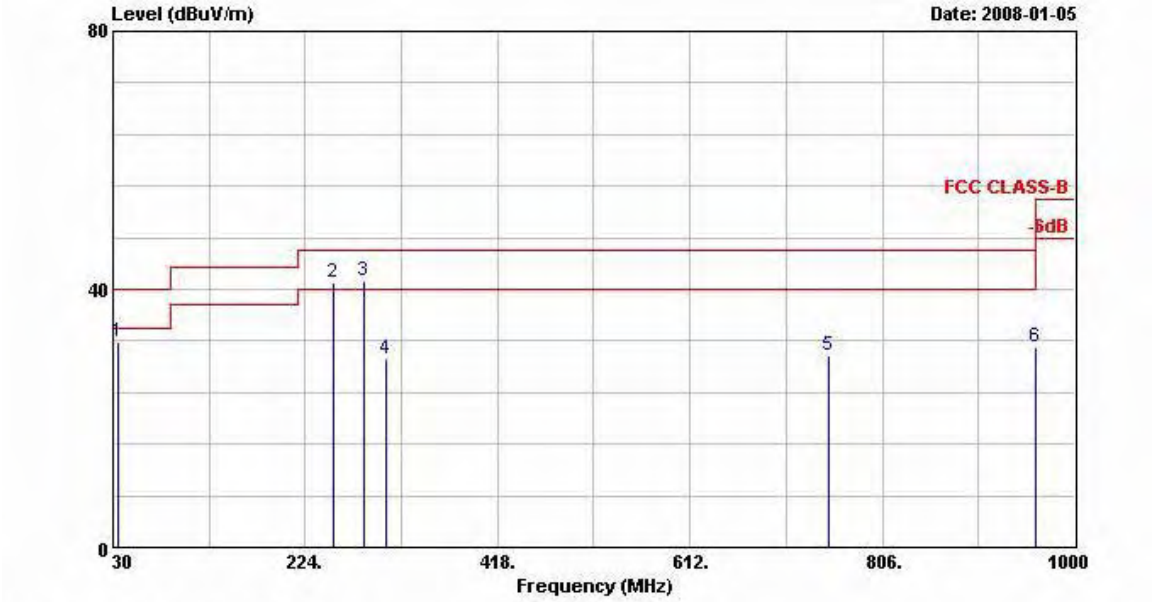
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH36;5180MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	40.49	-13.51	54.00	35.35	33.38	6.00	34.24	102	4	Average
2	5150.000	59.27	-14.73	74.00	54.13	33.38	6.00	34.24	100	0	Peak
3 X	5180.000	103.02			97.83	33.42	6.00	34.23	100	0	Peak
4 @	5180.000	87.05			81.86	33.42	6.00	34.23	102	4	Average
5	5350.000	49.06	-24.94	74.00	43.59	33.62	6.00	34.15	100	0	Peak
6	5350.000	37.37	-16.63	54.00	31.90	33.62	6.00	34.15	102	4	Average
7	8566.000	55.99	-18.01	74.00	45.82	37.58	7.05	34.46	100	0	Peak
8	8566.000	45.10	-8.90	54.00	34.93	37.58	7.05	34.46	100	147	Average
9	10365.000	60.80	-13.20	74.00	96.38	-8.72	7.80	34.65	100	0	Peak
10	10365.000	36.92	-17.08	54.00	72.50	-8.72	7.80	34.65	100	201	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 2
- Polarization : Horizontal

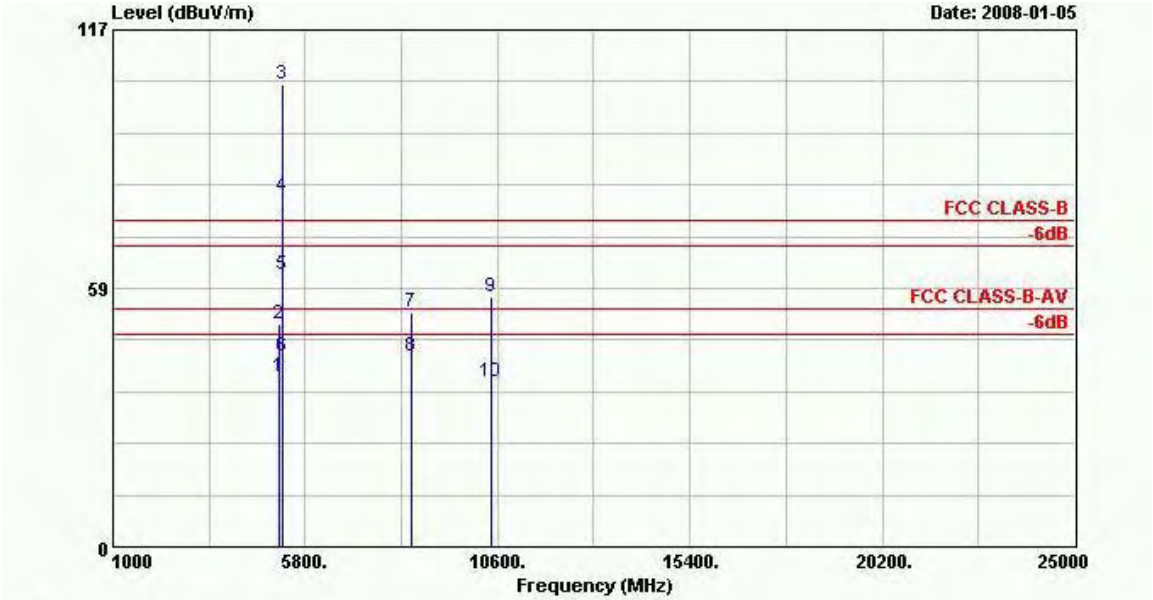
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH44;5220MHz
Data Rate:24

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		35.130	31.86	-8.14	40.00	42.92	16.29	0.91	28.26	---	---	Peak
2	!	251.940	41.04	-4.96	46.00	54.12	12.56	2.06	27.70	---	---	Peak
3	!	283.260	41.32	-4.68	46.00	54.38	12.40	2.18	27.63	100	125	Peak
4		304.900	29.23	-16.77	46.00	42.13	12.48	2.26	27.63	---	---	Peak
5		752.200	29.74	-16.26	46.00	35.19	19.99	3.56	29.00	---	---	Peak
6		960.100	30.95	-23.05	54.00	30.61	25.04	3.99	28.68	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



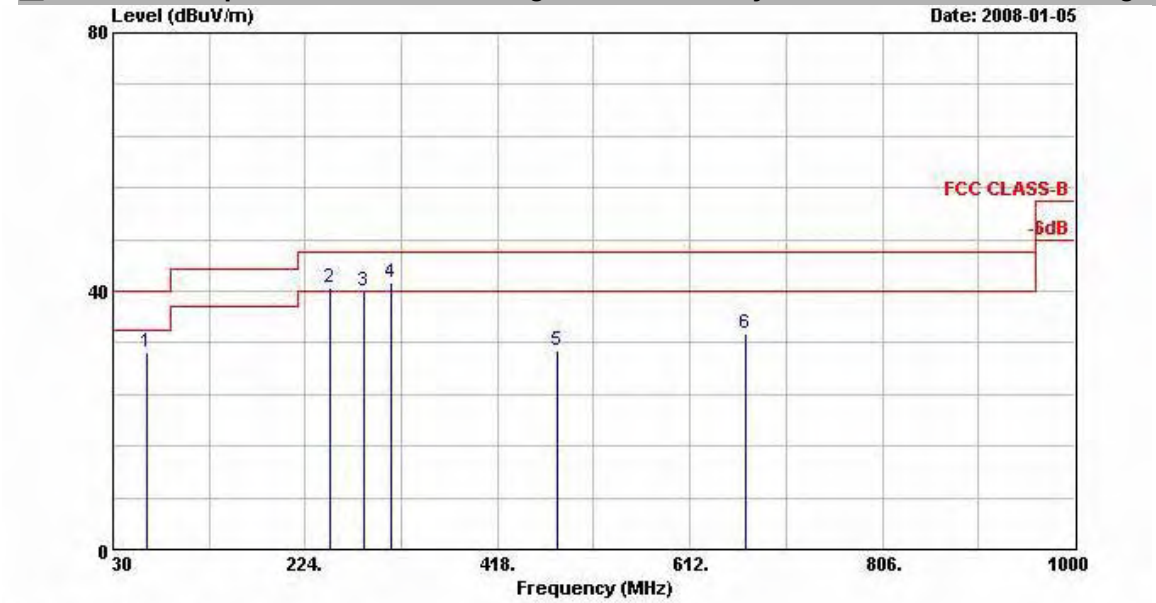
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH44;5220MHz
Data Rate:24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	38.31	-15.69	54.00	31.66	34.89	6.00	34.24	100	44	Average
2	5150.000	50.45	-23.55	74.00	43.80	34.89	6.00	34.24	100	0	Peak
3 @	5220.000	104.71			98.00	34.93	6.00	34.22	100	0	Peak
4 X	5220.000	79.28			72.57	34.93	6.00	34.22	100	44	Average
5	5250.000	61.65	-12.35	74.00	54.89	34.95	6.00	34.19	100	0	Peak
6	5250.000	42.96	-11.04	54.00	36.20	34.95	6.00	34.19	100	44	Average
7	8430.000	53.25	-20.75	74.00	44.25	36.29	6.98	34.27	100	0	Peak
8	8430.000	43.23	-10.77	54.00	34.23	36.29	6.98	34.27	100	120	Average
9	10434.000	56.61	-17.39	74.00	92.00	-8.61	7.80	34.58	100	0	Peak
10	10434.000	37.50	-16.50	54.00	72.89	-8.61	7.80	34.58	100	115	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

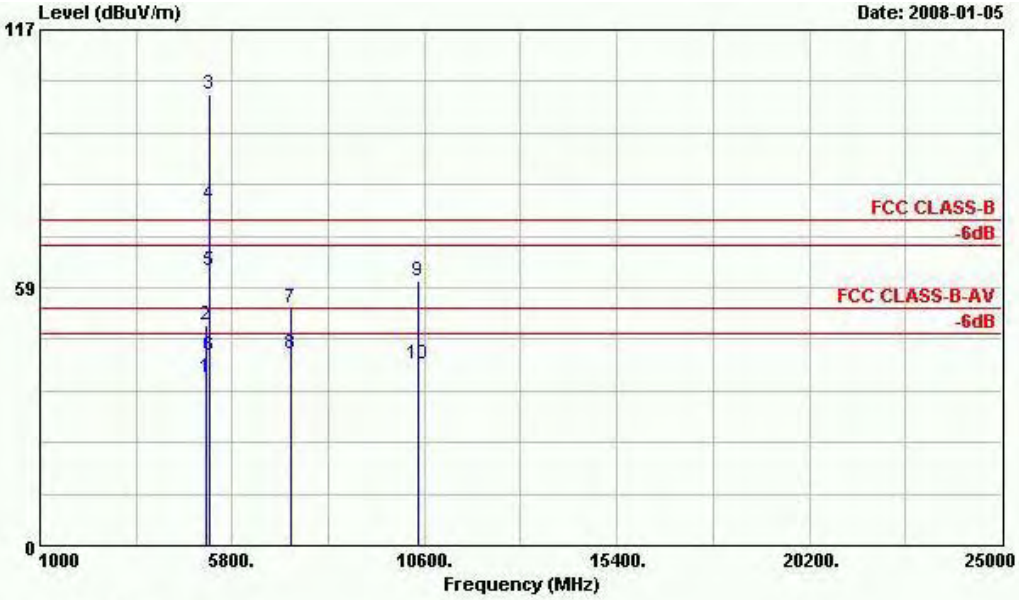
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH44;5220MHz
Data Rate:24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.020	30.46	-9.54	40.00	53.30	4.29	1.14	28.27	---	---	Peak
2 !	248.970	40.43	-5.57	46.00	53.59	12.50	2.05	27.70	---	---	Peak
3	282.450	39.90	-6.10	46.00	52.96	12.40	2.17	27.64	---	---	Peak
4 !	309.800	41.26	-4.74	46.00	54.01	12.64	2.27	27.67	100	187	Peak
5	478.500	30.82	-15.18	46.00	40.24	16.65	2.77	28.85	---	---	Peak
6	668.200	33.41	-12.59	46.00	39.00	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



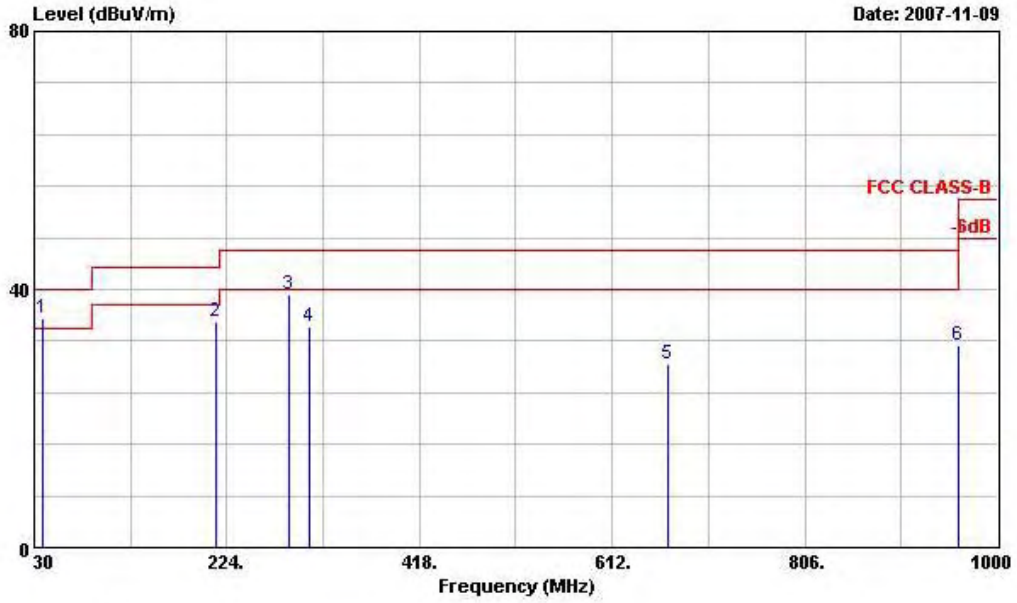
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH44;5220MHz
Data Rate:24

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		5150.000	38.14	-15.86	54.00	31.49	34.89	6.00	34.24	100	62	Average
2		5150.000	50.16	-23.84	74.00	43.51	34.89	6.00	34.24	100	0	Peak
3	@	5220.000	102.49			95.78	34.93	6.00	34.22	100	0	Peak
4	X	5220.000	77.33			70.62	34.93	6.00	34.22	100	62	Average
5		5250.000	62.16	-11.84	74.00	55.40	34.95	6.00	34.19	100	0	Peak
6		5250.000	43.18	-10.82	54.00	36.42	34.95	6.00	34.19	100	62	Average
7		7260.000	53.89	-20.11	74.00	44.58	36.00	6.46	33.15	100	0	Peak
8		7260.000	43.57	-10.43	54.00	34.26	36.00	6.46	33.15	100	174	Average
9		10446.000	60.20	-13.80	74.00	95.56	-8.58	7.80	34.58	100	0	Peak
10		10446.000	41.30	-12.70	54.00	76.66	-8.58	7.80	34.58	100	11	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 3
- Polarization : Horizontal

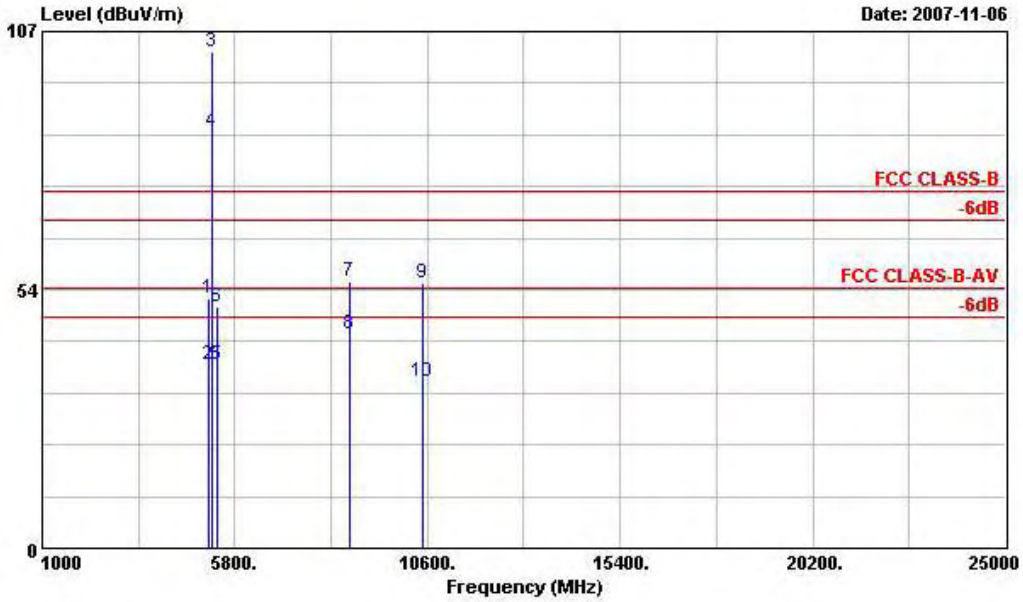
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 802.11a TX_CH48;5240MHz
Data Rate: 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	38.100	35.50	-4.50	40.00	49.21	13.61	0.95	28.27	100	187	Peak
2	213.330	34.93	-8.57	43.50	51.02	9.76	1.93	27.77	---	---	Peak
3	286.770	39.22	-6.78	46.00	52.28	12.38	2.19	27.63	---	---	Peak
4	307.700	34.15	-11.85	46.00	46.96	12.58	2.27	27.66	---	---	Peak
5	668.200	28.54	-17.46	46.00	34.13	20.06	3.45	29.10	---	---	Peak
6	960.100	31.24	-22.76	54.00	30.90	25.04	3.99	28.68	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



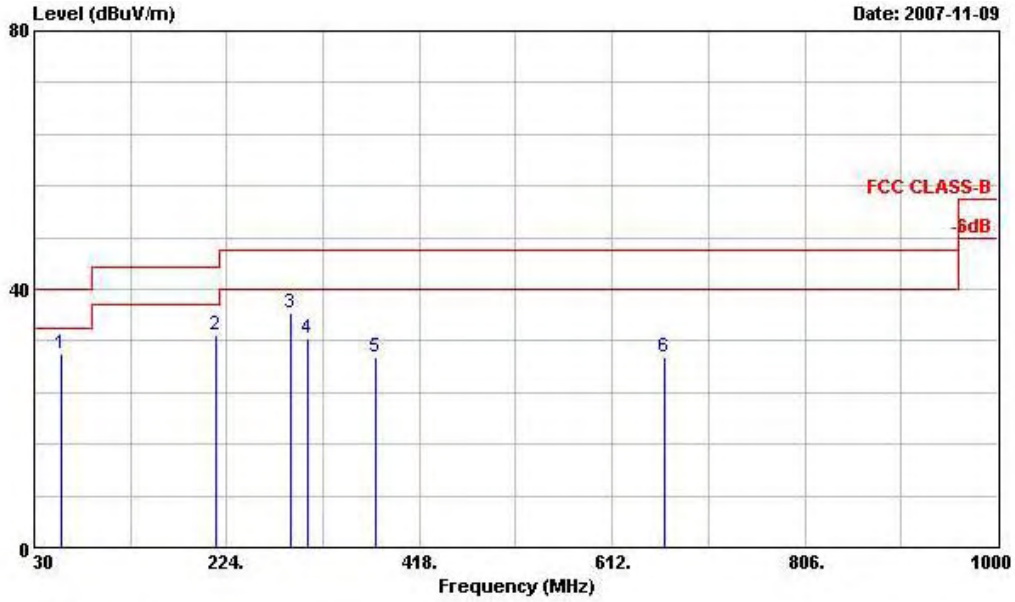
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH48;5240MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	51.80	-22.20	74.00	46.66	33.38	6.00	34.24	100	0	Peak
2	5150.000	38.12	-15.88	54.00	32.98	33.38	6.00	34.24	119	6	Average
3 @	5240.000	102.81			97.54	33.48	6.00	34.21	100	0	Peak
4 @	5240.000	86.14			80.87	33.48	6.00	34.21	119	6	Average
5	5350.000	37.92	-16.08	54.00	32.45	33.62	6.00	34.15	119	6	Average
6	5350.000	50.05	-23.95	74.00	44.58	33.62	6.00	34.15	100	0	Peak
7	8678.000	55.36	-18.64	74.00	45.07	37.72	7.11	34.54	100	0	Peak
8	8678.000	44.45	-9.55	54.00	34.16	37.72	7.11	34.54	100	134	Average
9	10482.000	54.86	-19.14	74.00	90.12	-8.53	7.80	34.53	100	0	Peak
10	10482.000	34.58	-19.42	54.00	69.84	-8.53	7.80	34.53	100	6	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

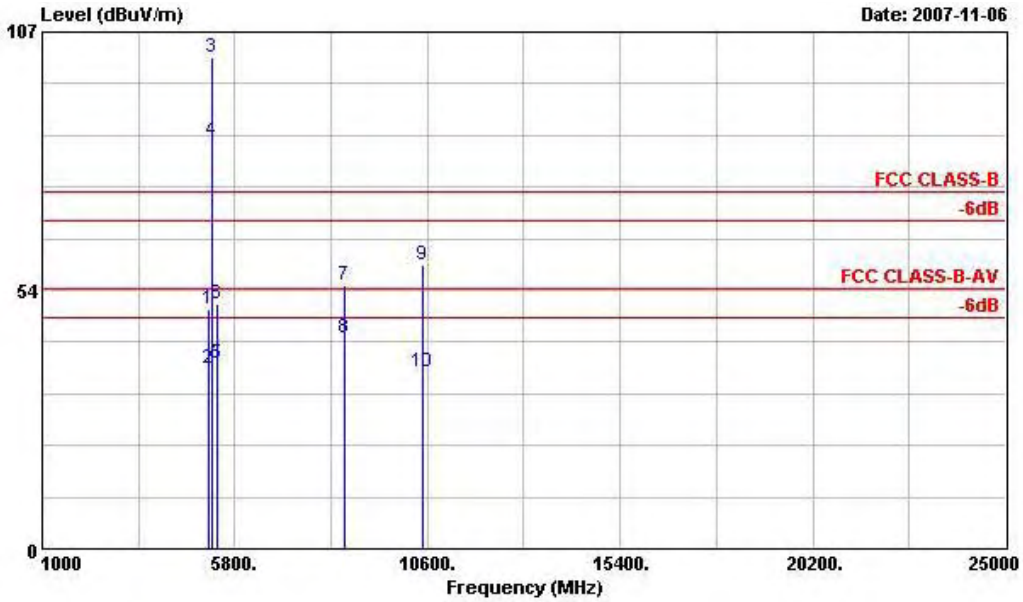
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site     :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT      :N/B
POWER    :120Vac/60Hz
MODEL    :FR 701819
MEMO     :802.11a TX_CH48;5240MHz
Data Rate:9
```

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	57.540	30.12	-9.88	40.00	52.83	4.49	1.09	28.28	---	---	Peak
2	213.060	32.97	-10.53	43.50	49.06	9.76	1.92	27.77	---	---	Peak
3	287.850	36.22	-9.78	46.00	49.28	12.37	2.19	27.62	100	287	Peak
4	304.900	32.32	-13.68	46.00	45.22	12.48	2.26	27.63	---	---	Peak
5	374.200	29.54	-16.46	46.00	40.29	14.88	2.49	28.12	---	---	Peak
6	665.400	29.44	-16.56	46.00	35.04	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



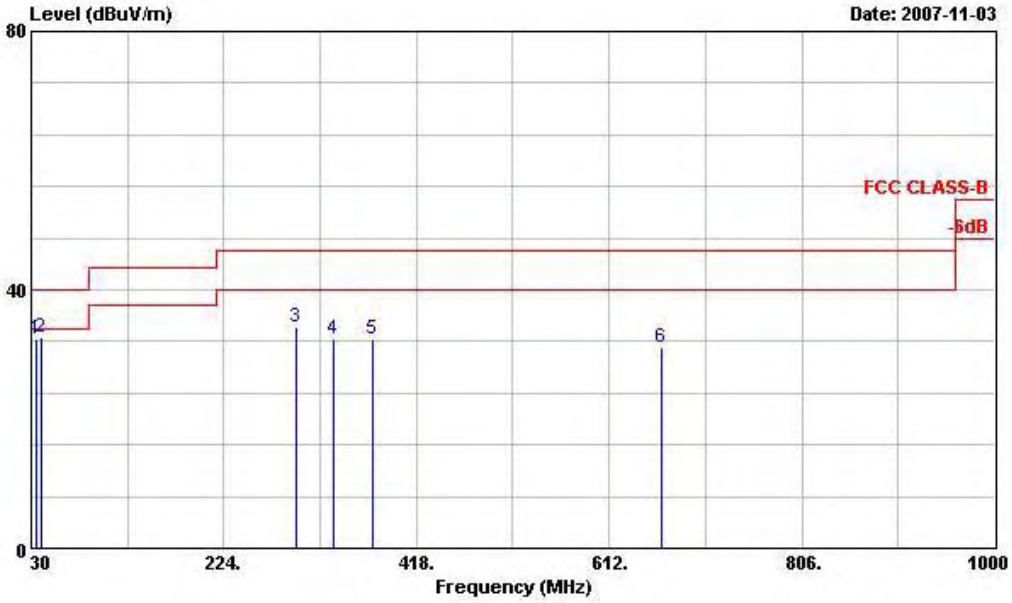
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH48;5240MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	49.72	-24.28	74.00	44.58	33.38	6.00	34.24	100	0	Peak
2	5150.000	37.34	-16.66	54.00	32.20	33.38	6.00	34.24	100	3	Average
3 @	5240.000	101.61			96.34	33.48	6.00	34.21	100	0	Peak
4 @	5240.000	84.44			79.17	33.48	6.00	34.21	100	3	Average
5	5350.000	38.25	-15.75	54.00	32.78	33.62	6.00	34.15	100	3	Average
6	5350.000	50.74	-23.26	74.00	45.27	33.62	6.00	34.15	100	0	Peak
7	8550.000	54.61	-19.39	74.00	44.44	37.56	7.05	34.44	100	0	Peak
8	8550.000	43.51	-10.49	54.00	33.34	37.56	7.05	34.44	100	45	Average
9	10478.000	58.83	-15.17	74.00	94.09	-8.53	7.80	34.53	100	0	Peak
10	10478.000	36.45	-17.55	54.00	71.71	-8.53	7.80	34.53	100	6	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 4
- Polarization : Horizontal

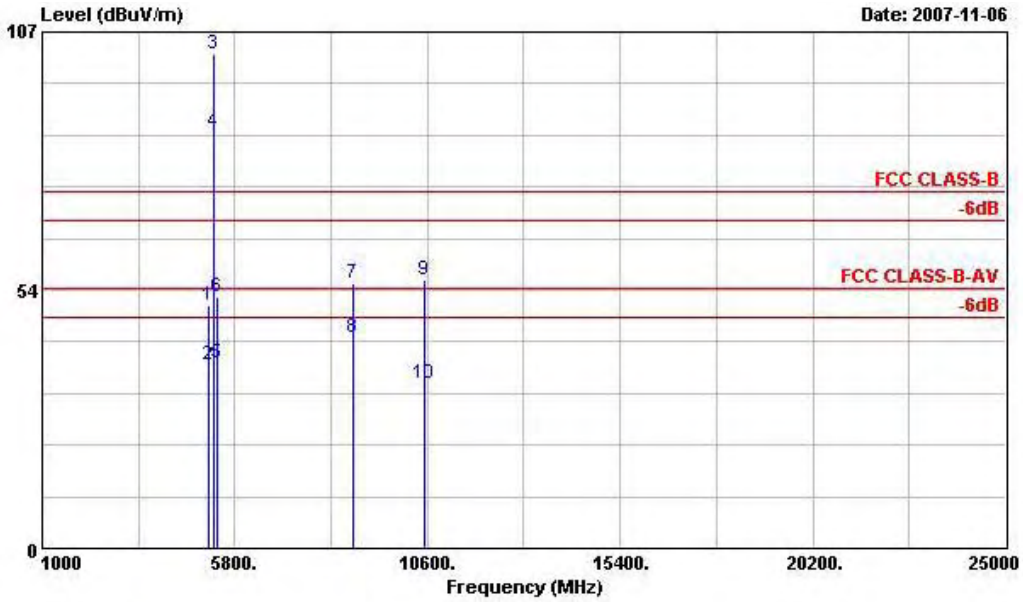
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 7O1819
MEMO :802.11a TX_CH52;5260MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.130	32.34	-7.66	40.00	41.79	16.29	0.91	26.65	---	---	Peak
2	39.450	32.65	-7.35	40.00	46.51	11.82	0.96	26.64	100	196	Peak
3	296.220	34.16	-11.84	46.00	45.34	12.33	2.23	25.74	---	---	Peak
4	335.000	32.27	-13.73	46.00	42.37	13.51	2.35	25.97	---	---	Peak
5	374.200	32.49	-13.51	46.00	41.36	14.88	2.49	26.24	---	---	Peak
6	665.400	31.15	-14.85	46.00	34.67	20.06	3.45	27.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



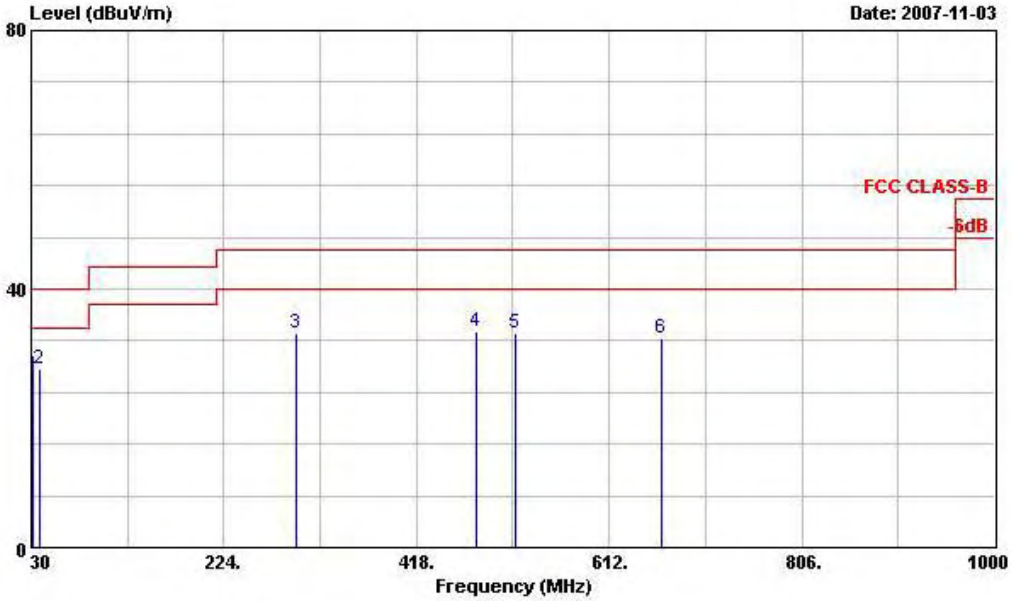
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH52;5260MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		5150.000	50.29	-23.71	74.00	45.15	33.38	6.00	34.24	100	0	Peak
2		5150.000	37.93	-16.07	54.00	32.79	33.38	6.00	34.24	114	255	Average
3	X	5260.000	102.28			96.95	33.52	6.00	34.19	100	0	Peak
4	@	5260.000	86.18			80.85	33.52	6.00	34.19	114	255	Average
5		5350.000	38.48	-15.52	54.00	33.01	33.62	6.00	34.15	114	255	Average
6		5350.000	52.06	-21.94	74.00	46.59	33.62	6.00	34.15	100	0	Peak
7		8732.000	54.88	-19.12	74.00	44.55	37.78	7.13	34.58	100	0	Peak
8		8732.000	43.80	-10.20	54.00	33.47	37.78	7.13	34.58	100	187	Average
9		10522.000	55.75	-18.25	74.00	90.94	-8.49	7.80	34.50	100	0	Peak
10		10522.000	34.13	-19.87	54.00	69.32	-8.49	7.80	34.50	100	22	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

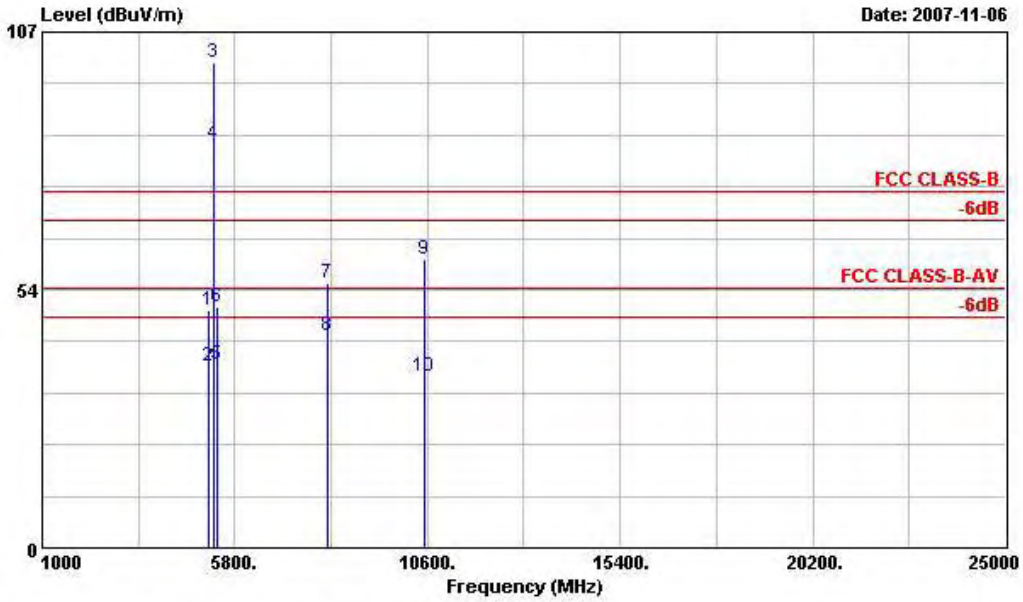
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH52;5260MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	29.75	-10.25	40.00	39.18	16.34	0.89	26.66	100	161	Peak
2	38.370	27.51	-12.49	40.00	40.49	12.71	0.95	26.64	---	---	Peak
3	297.570	33.04	-12.96	46.00	44.22	12.32	2.23	25.74	---	---	Peak
4	478.500	33.49	-12.51	46.00	41.00	16.65	2.77	26.94	---	---	Peak
5	517.700	33.08	-12.92	46.00	39.84	17.43	2.88	27.07	---	---	Peak
6	665.400	32.45	-13.55	46.00	35.97	20.06	3.45	27.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



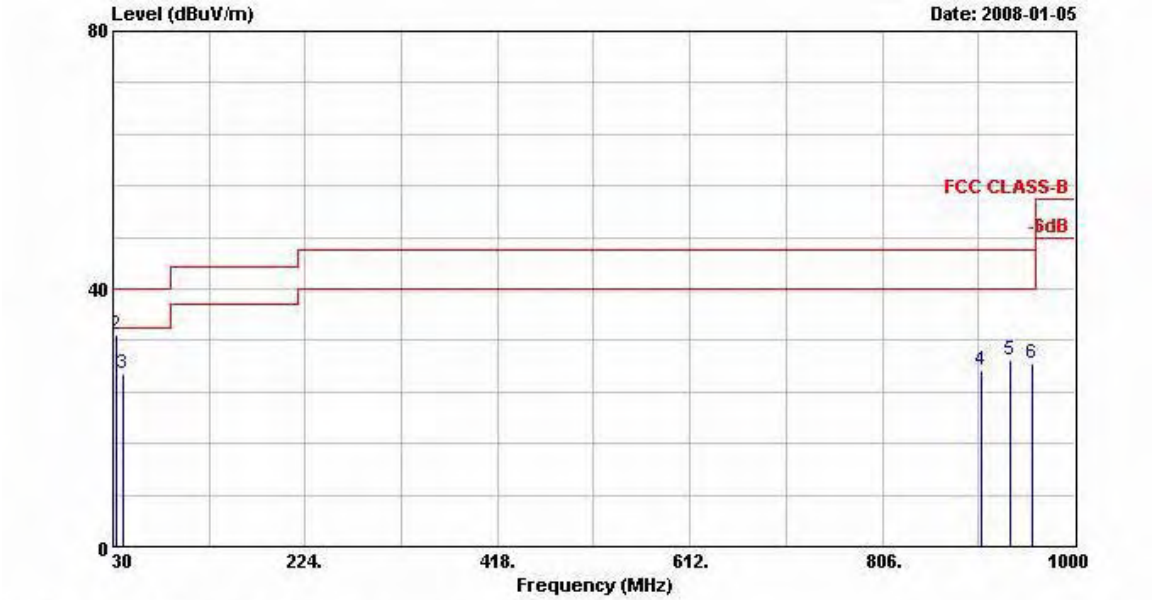
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH52;5260MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		5150.000	49.37	-24.63	74.00	44.23	33.38	6.00	34.24	100	0	Peak
2		5150.000	37.55	-16.45	54.00	32.41	33.38	6.00	34.24	100	6	Average
3	X	5260.000	100.76			95.43	33.52	6.00	34.19	100	0	Peak
4	@	5260.000	83.74			78.41	33.52	6.00	34.19	100	6	Average
5		5350.000	37.91	-16.09	54.00	32.44	33.62	6.00	34.15	100	6	Average
6		5350.000	49.96	-24.04	74.00	44.49	33.62	6.00	34.15	100	0	Peak
7		8102.000	54.82	-19.18	74.00	44.83	36.94	6.81	33.77	100	0	Peak
8		8102.000	44.14	-9.86	54.00	34.15	36.94	6.81	33.77	100	177	Average
9		10521.000	59.77	-14.23	74.00	94.96	-8.49	7.80	34.50	100	0	Peak
10		10521.000	35.39	-18.61	54.00	70.58	-8.49	7.80	34.50	100	14	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 5
- Polarization : Horizontal

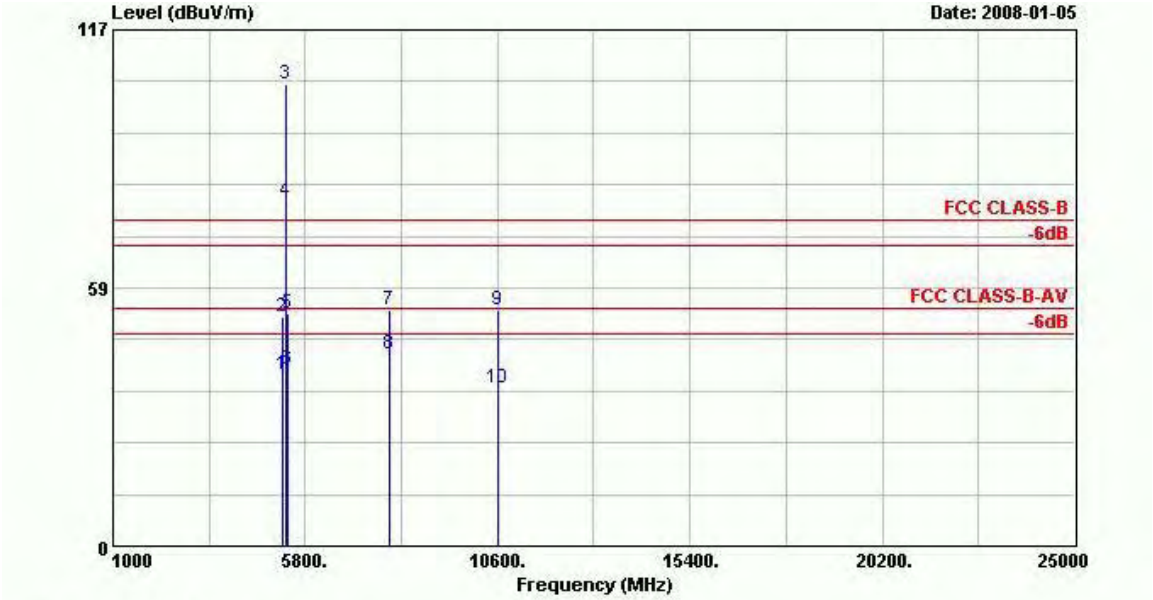
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 802.11a TX_CH60;5300MHz
Data Rate: 24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.000	24.70	-15.30	40.00	35.70	16.38	0.87	28.25	---	---	Peak
2 @	32.970	32.95	-7.05	40.00	43.99	16.33	0.90	28.26	100	143	Peak
3	40.530	26.81	-13.19	40.00	42.65	11.46	0.97	28.28	---	---	Peak
4	906.200	27.47	-18.53	46.00	28.64	23.66	3.96	28.79	---	---	Peak
5	934.200	28.92	-17.08	46.00	29.30	24.37	3.97	28.73	---	---	Peak
6	956.600	28.29	-17.71	46.00	28.05	24.94	3.98	28.69	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



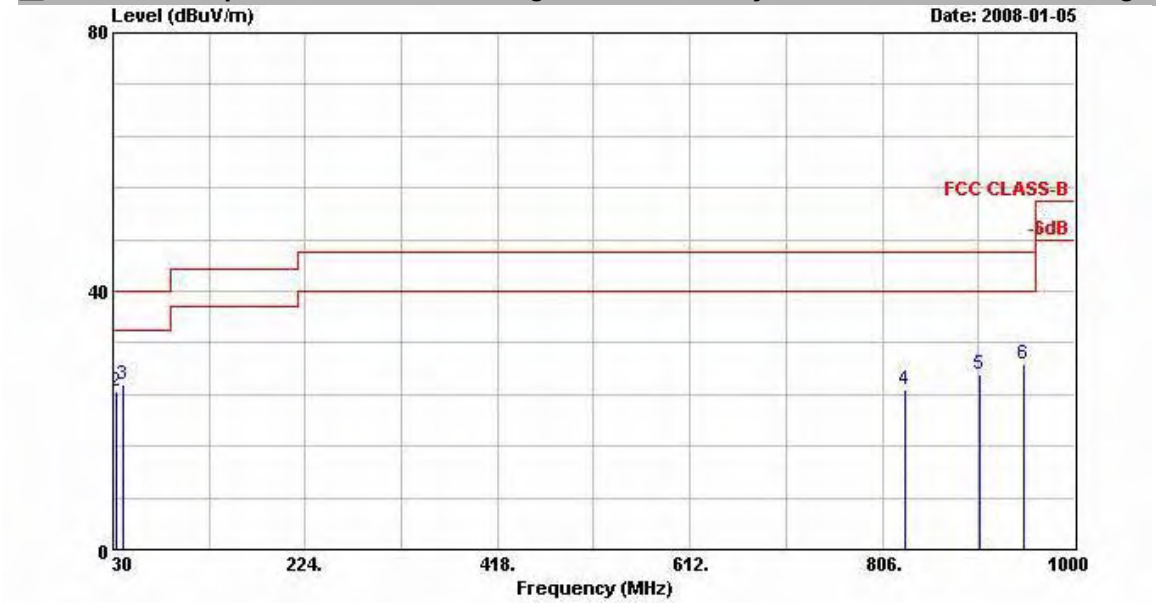
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH60;5300MHz
Data Rate:24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5250.000	38.81	-15.19	54.00	32.05	34.95	6.00	34.19	100	51	Average
2	5250.000	52.06	-21.94	74.00	45.30	34.95	6.00	34.19	100	0	Peak
3 @	5300.000	104.57			97.76	34.98	6.00	34.17	100	0	Peak
4 @	5300.000	78.20			71.39	34.98	6.00	34.17	100	51	Average
5	5350.000	52.72	-21.28	74.00	45.86	35.01	6.00	34.15	100	0	Peak
6	5350.000	40.03	-13.97	54.00	33.17	35.01	6.00	34.15	100	51	Average
7	7886.000	53.57	-20.43	74.00	44.35	36.15	6.71	33.65	100	0	Peak
8	7886.000	43.35	-10.65	54.00	34.13	36.15	6.71	33.65	100	109	Average
9	10593.000	53.54	-20.46	74.00	88.65	-8.46	7.80	34.45	100	0	Peak
10	10593.000	35.64	-18.36	54.00	70.75	-8.46	7.80	34.45	100	116	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

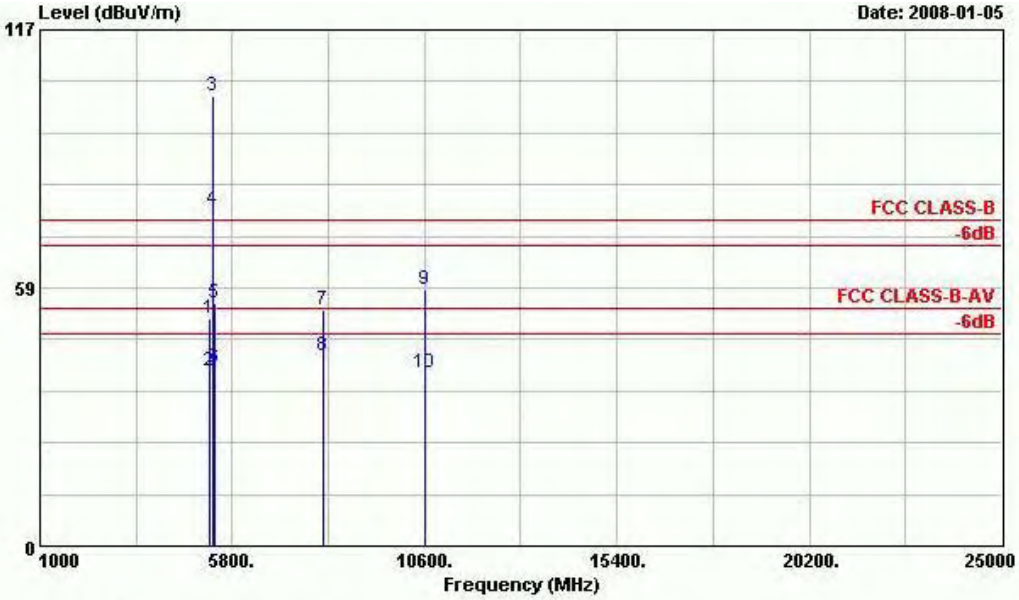
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH60;5300MHz
Data Rate:24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.000	23.73	-16.27	40.00	34.73	16.38	0.87	28.25	---	---	Peak
2	32.700	24.41	-15.59	40.00	35.45	16.33	0.90	28.26	---	---	Peak
3	40.260	25.62	-14.38	40.00	41.46	11.46	0.97	28.28	100	146	Peak
4	828.500	24.78	-21.22	46.00	29.04	20.88	3.73	28.87	---	---	Peak
5	903.400	27.19	-18.81	46.00	28.44	23.58	3.96	28.79	---	---	Peak
6	948.900	28.59	-17.41	46.00	28.57	24.74	3.98	28.70	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



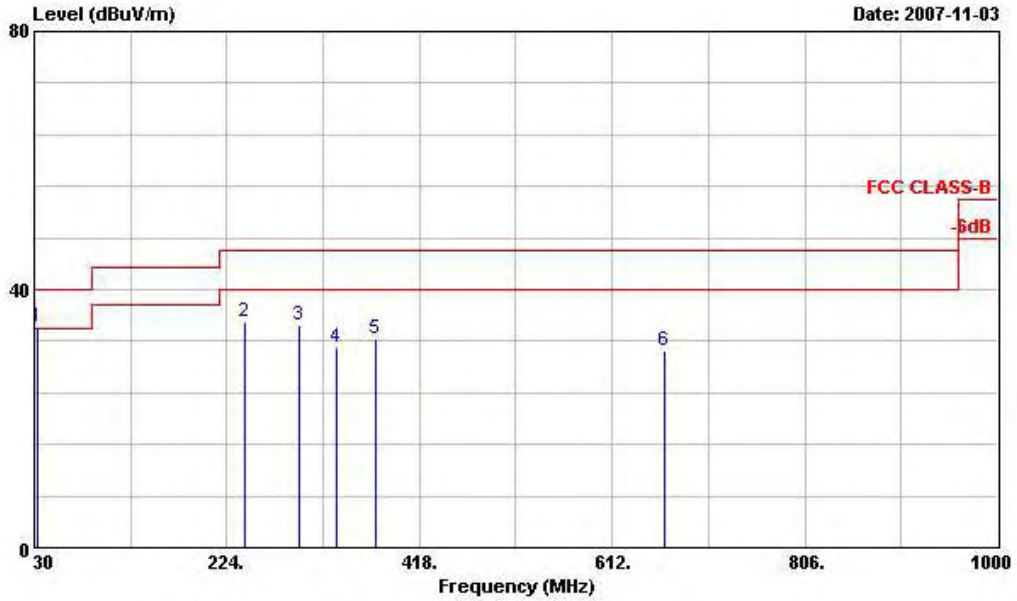
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH60;5300MHz
Data Rate:24

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5250.000	51.50	-22.50	74.00	44.74	34.95	6.00	34.19	100	0	Peak
2	5250.000	39.50	-14.50	54.00	32.74	34.95	6.00	34.19	125	186	Average
3 @	5300.000	102.01			95.20	34.98	6.00	34.17	100	0	Peak
4 @	5300.000	76.02			69.21	34.98	6.00	34.17	125	186	Average
5	5350.000	54.89	-19.11	74.00	48.03	35.01	6.00	34.15	100	0	Peak
6	5350.000	40.50	-13.50	54.00	33.64	35.01	6.00	34.15	125	186	Average
7	8068.000	53.46	-20.54	74.00	44.15	36.21	6.78	33.68	100	0	Peak
8	8068.000	43.14	-10.86	54.00	33.83	36.21	6.78	33.68	100	187	Average
9	10602.000	58.19	-15.81	74.00	93.28	-8.46	7.80	34.44	100	0	Peak
10	10602.000	39.09	-14.91	54.00	74.18	-8.46	7.80	34.44	100	4	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 6
- Polarization : Horizontal

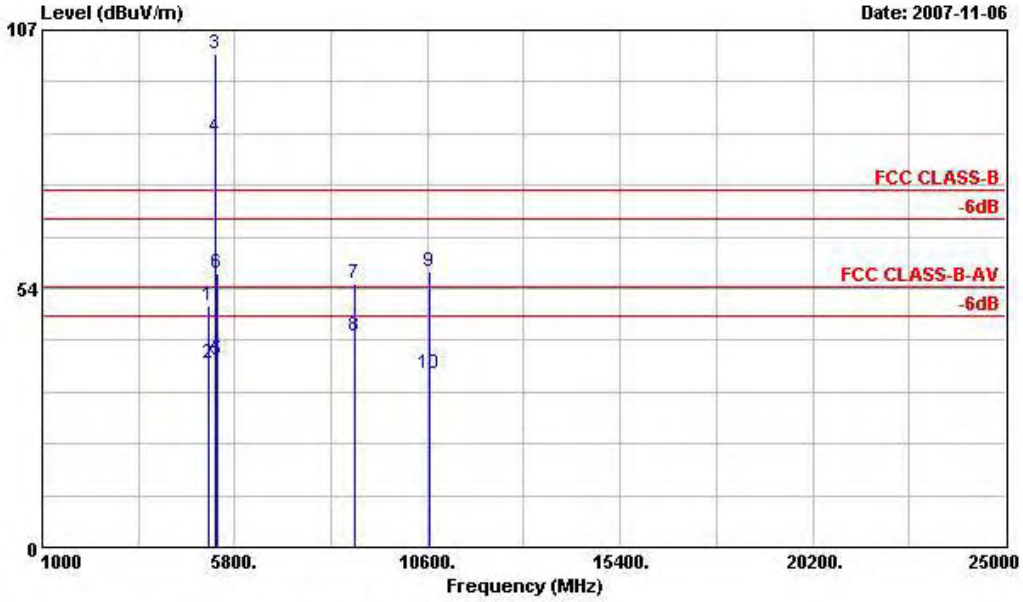
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 7O1819
MEMO :802.11a TX_CH64;5320MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	33.780	34.15	-5.85	40.00	43.59	16.31	0.91	26.66	100	171	Peak
2	242.220	34.89	-11.11	46.00	46.83	11.98	2.02	25.94	---	---	Peak
3	296.220	34.57	-11.43	46.00	45.75	12.33	2.23	25.74	---	---	Peak
4	335.000	30.97	-15.03	46.00	41.07	13.51	2.35	25.97	---	---	Peak
5	374.200	32.36	-13.64	46.00	41.23	14.88	2.49	26.24	---	---	Peak
6	665.400	30.58	-15.42	46.00	34.10	20.06	3.45	27.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



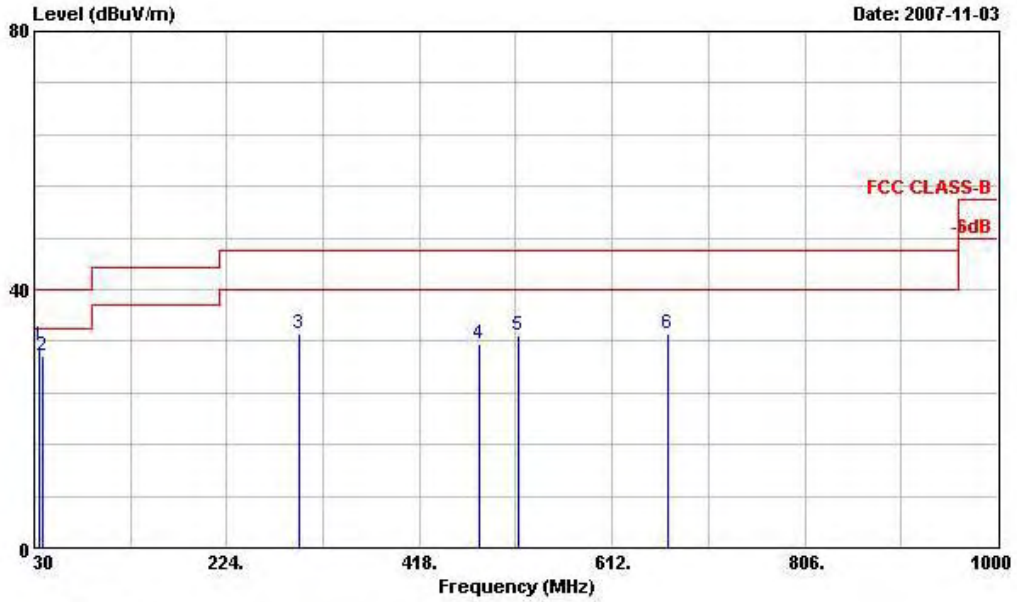
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH64;5320MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	50.04	-23.96	74.00	44.90	33.38	6.00	34.24	100	0	Peak
2	5150.000	37.86	-16.14	54.00	32.72	33.38	6.00	34.24	154	7	Average
3 @	5320.000	101.99			96.58	33.58	6.00	34.17	100	0	Peak
4 @	5320.000	84.70			79.29	33.58	6.00	34.17	154	7	Average
5	5350.000	38.88	-15.12	54.00	33.41	33.62	6.00	34.15	154	7	Average
6	5350.000	56.80	-17.20	74.00	51.33	33.62	6.00	34.15	100	0	Peak
7	8796.000	54.69	-19.31	74.00	44.30	37.86	7.17	34.64	100	0	Peak
8	8796.000	43.64	-10.36	54.00	33.25	37.86	7.17	34.64	100	173	Average
9	10638.000	57.09	-16.91	74.00	92.15	-8.44	7.80	34.42	100	0	Peak
10	10638.000	35.74	-18.26	54.00	70.80	-8.44	7.80	34.42	100	73	Average

Remark: #11 and #12 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

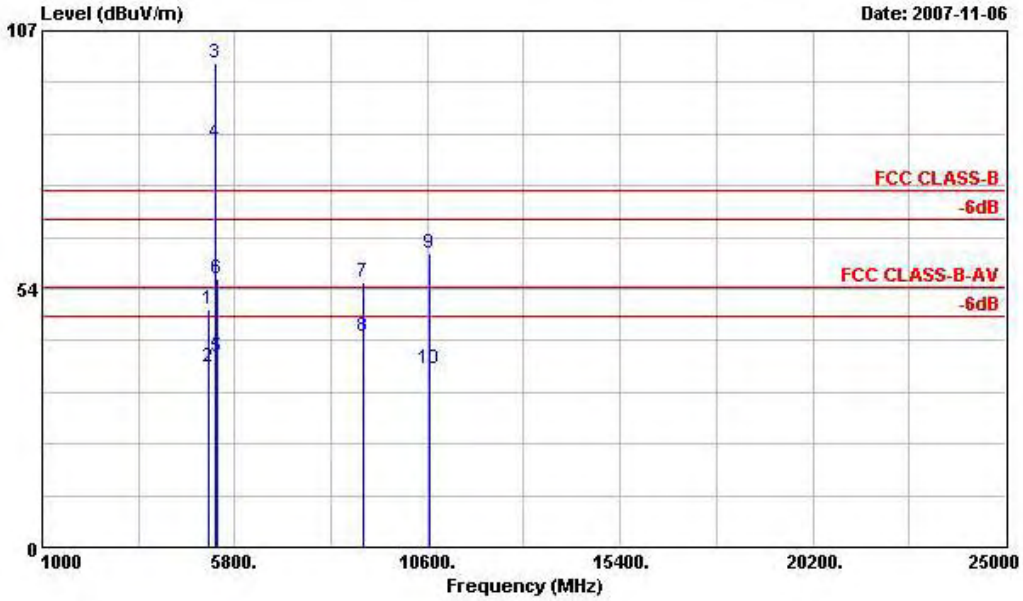
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH64;5320MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.940	31.34	-8.66	40.00	41.67	15.40	0.93	26.65	100	144	Peak
2	39.180	29.63	-10.37	40.00	42.60	12.71	0.96	26.64	---	---	Peak
3	297.300	33.07	-12.93	46.00	44.25	12.32	2.23	25.74	---	---	Peak
4	478.500	31.70	-14.30	46.00	39.21	16.65	2.77	26.94	---	---	Peak
5	517.700	32.91	-13.09	46.00	39.67	17.43	2.88	27.07	---	---	Peak
6	668.200	33.22	-12.78	46.00	36.73	20.06	3.45	27.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



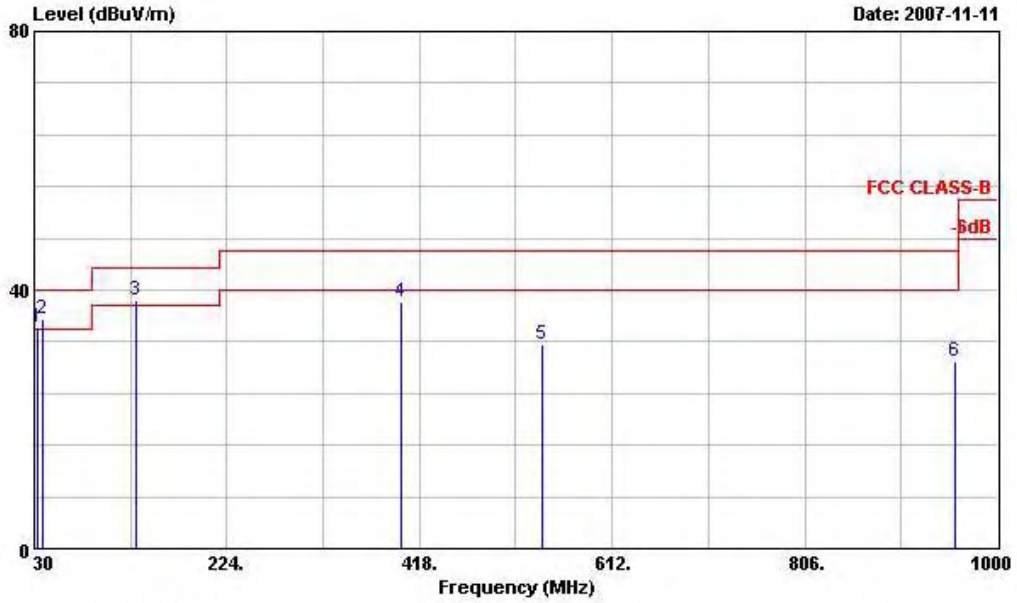
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :802.11a TX_CH64;5320MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	49.13	-24.87	74.00	43.99	33.38	6.00	34.24	100	0	Peak
2	5150.000	37.22	-16.78	54.00	32.08	33.38	6.00	34.24	107	8	Average
3 @	5320.000	100.43			95.02	33.58	6.00	34.17	100	0	Peak
4 @	5320.000	83.85			78.44	33.58	6.00	34.17	107	8	Average
5	5350.000	39.25	-14.75	54.00	33.78	33.62	6.00	34.15	107	8	Average
6	5350.000	55.49	-18.51	74.00	50.02	33.62	6.00	34.15	100	0	Peak
7	8990.000	55.00	-19.00	74.00	44.43	38.08	7.27	34.78	100	0	Peak
8	8990.000	43.80	-10.20	54.00	33.23	38.08	7.27	34.78	100	139	Average
9	10641.000	60.95	-13.05	74.00	96.01	-8.44	7.80	34.42	100	0	Peak
10	10641.000	37.11	-16.89	54.00	72.17	-8.44	7.80	34.42	100	110	Average

Remark: #3 and #4 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 7
- Polarization : Horizontal

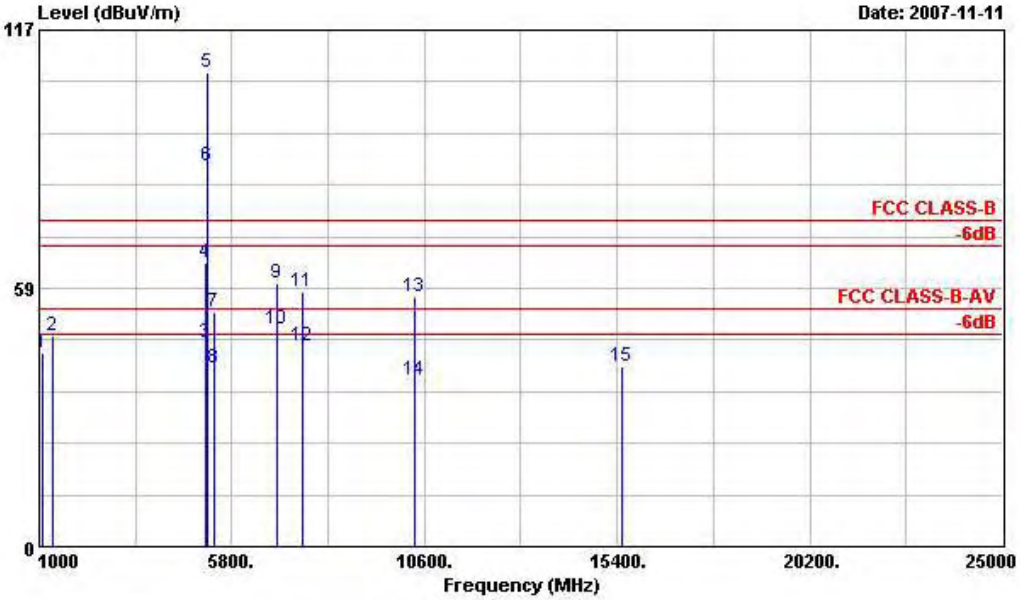
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(20M)_CH36;5180MHz
Data Rate:48
```

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	33.780	34.10	-5.90	40.00	45.15	16.31	0.91	28.26	---	---	Peak
2 !	38.100	35.62	-4.38	40.00	49.33	13.61	0.95	28.27	100	156	Peak
3 !	132.060	38.45	-5.05	43.50	53.68	11.28	1.56	28.07	---	---	Peak
4	399.400	38.12	-7.88	46.00	48.09	15.75	2.57	28.29	---	---	Peak
5	542.200	31.64	-14.36	46.00	39.55	18.16	2.97	29.04	---	---	Peak
6	956.600	28.83	-17.17	46.00	28.59	24.94	3.98	28.69	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



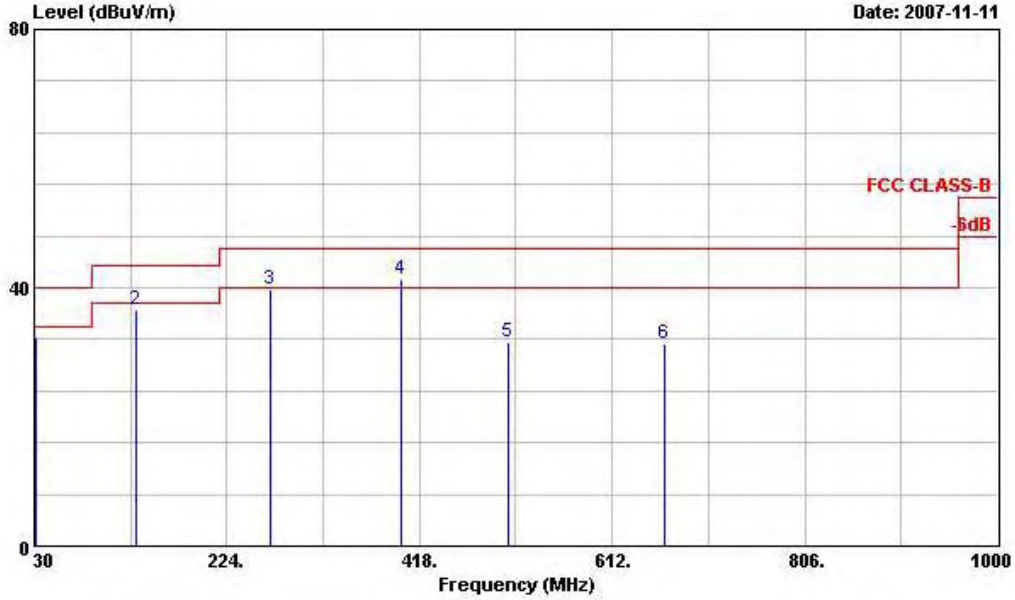
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH36;5180MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1094.000	43.69	-30.31	74.00	50.08	25.53	2.34	34.26	100	0	Peak
2	1334.000	47.74	-26.26	74.00	52.54	26.55	2.60	33.95	100	0	Peak
3	5150.000	46.00	-8.00	54.00	38.96	35.28	6.00	34.24	102	350	Average
4	5150.000	64.26	-9.74	74.00	57.22	35.28	6.00	34.24	100	0	Peak
5 @	5180.000	107.55			100.46	35.32	6.00	34.23	100	0	Peak
6 @	5180.000	86.12			79.03	35.32	6.00	34.23	102	350	Average
7	5350.000	52.94	-21.06	74.00	45.57	35.52	6.00	34.15	100	0	Peak
8	5350.000	40.40	-13.60	54.00	33.03	35.52	6.00	34.15	102	350	Average
9	6908.000	59.73	-14.27	74.00	47.21	38.75	6.33	32.56	100	0	Peak
10 !	6908.000	49.12	-4.88	54.00	36.60	38.75	6.33	32.56	100	124	Average
11	7572.000	57.55	-16.45	74.00	45.31	39.42	6.59	33.77	100	0	Peak
12	7572.000	45.31	-8.69	54.00	33.07	39.42	6.59	33.77	100	121	Average
13	10362.000	56.57	-17.43	74.00	92.15	-8.72	7.80	34.65	100	0	Peak
14	10362.000	37.54	-16.46	54.00	73.12	-8.72	7.80	34.65	100	76	Average
15	15537.000	40.69	-33.31	74.00	73.78	-7.26	8.69	34.52	100	0	Peak

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

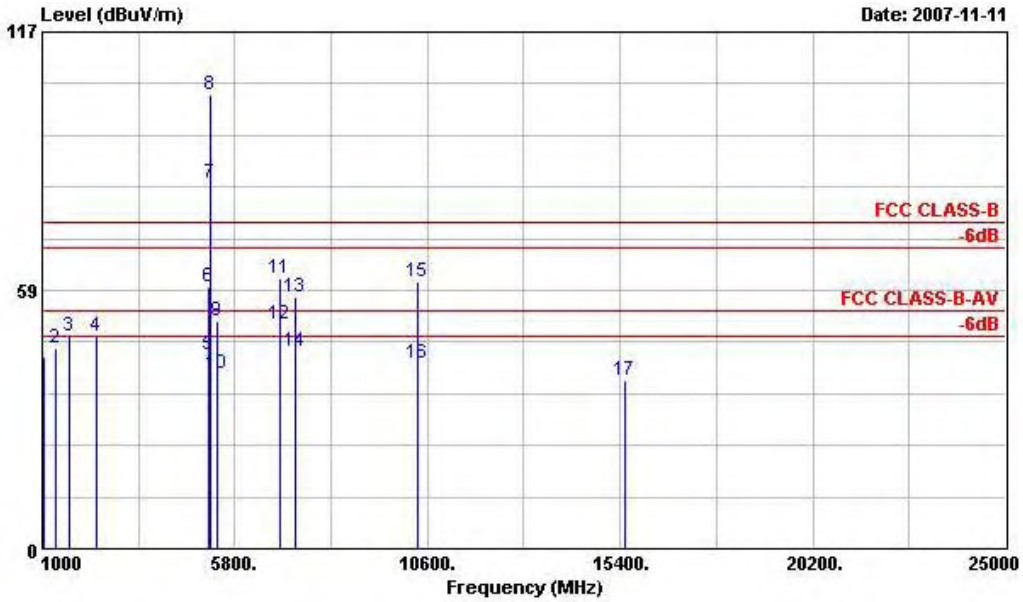
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH36;5180MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		31.620	32.42	-7.58	40.00	43.46	16.34	0.88	28.26	---	---	Peak
2		132.060	36.69	-6.81	43.50	51.92	11.28	1.56	28.07	---	---	Peak
3		268.410	39.61	-6.39	46.00	52.68	12.47	2.12	27.66	---	---	Peak
4	!	400.100	41.41	-4.59	46.00	51.37	15.76	2.58	28.30	100	147	Peak
5		506.500	31.66	-14.34	46.00	40.75	17.08	2.84	29.01	---	---	Peak
6		665.400	31.34	-14.66	46.00	36.94	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



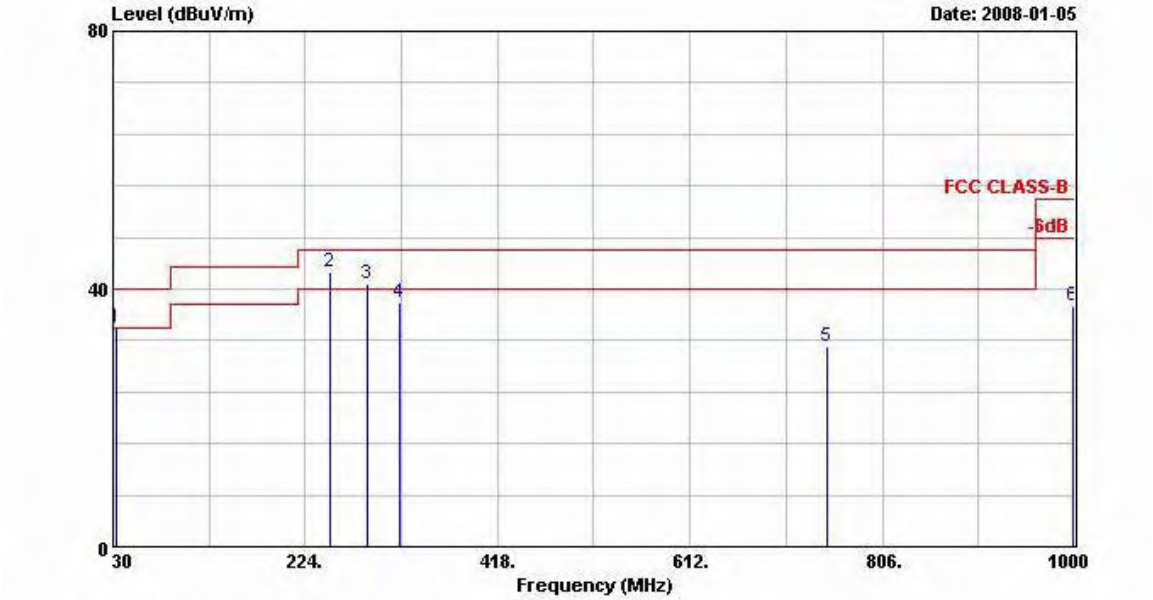
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH36;5180MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1052.000	43.42	-30.58	74.00	50.15	25.32	2.28	34.33	100	0	Peak
2		1334.000	45.31	-28.69	74.00	50.11	26.55	2.60	33.95	100	0	Peak
3		1668.000	48.26	-25.74	74.00	50.52	28.47	2.97	33.70	100	0	Peak
4		2334.000	48.12	-25.88	74.00	47.66	30.54	3.69	33.77	100	0	Peak
5		5150.000	43.98	-10.02	54.00	36.89	35.32	6.00	34.23	100	30	Average
6		5150.000	59.43	-14.57	74.00	52.34	35.32	6.00	34.23	100	0	Peak
7	X	5180.000	82.73			75.64	35.32	6.00	34.23	100	30	Average
8	@	5180.000	102.89			95.80	35.32	6.00	34.23	100	0	Peak
9		5350.000	51.52	-22.48	74.00	44.15	35.52	6.00	34.15	100	0	Peak
10		5350.000	39.69	-14.31	54.00	32.32	35.52	6.00	34.15	100	30	Average
11		6908.000	61.36	-12.64	74.00	48.84	38.75	6.33	32.56	100	0	Peak
12	!	6908.000	50.98	-3.02	54.00	38.46	38.75	6.33	32.56	100	211	Average
13		7310.000	57.06	-16.94	74.00	44.53	39.32	6.48	33.28	100	0	Peak
14		7310.000	44.53	-9.47	54.00	32.00	39.32	6.48	33.28	100	49	Average
15		10362.000	60.35	-13.65	74.00	95.93	-8.72	7.80	34.65	100	0	Peak
16		10362.000	42.14	-11.86	54.00	77.72	-8.72	7.80	34.65	100	165	Average
17		15537.000	38.06	-35.94	74.00	71.01	-7.12	8.69	34.52	100	0	Peak

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 8
- Polarization : Horizontal

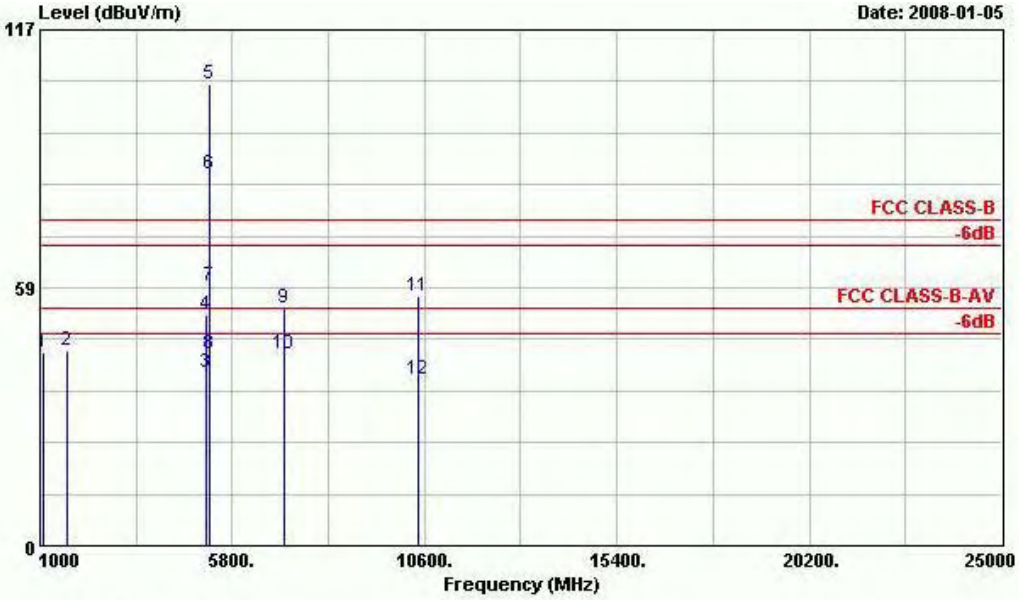
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(20M)_CH44;5220MHz
Data Rate: 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.050	33.97	-6.03	40.00	45.02	16.31	0.91	28.26	---	---	Peak
2 !	248.970	42.51	-3.49	46.00	55.67	12.50	2.05	27.70	100	214	Peak
3 !	286.500	40.77	-5.23	46.00	53.83	12.38	2.19	27.63	---	---	Peak
4	318.900	37.82	-8.18	46.00	50.27	12.98	2.30	27.73	---	---	Peak
5	749.400	30.95	-15.05	46.00	36.39	20.00	3.56	29.00	---	---	Peak
6	998.600	37.36	-16.64	54.00	35.94	26.03	4.00	28.60	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



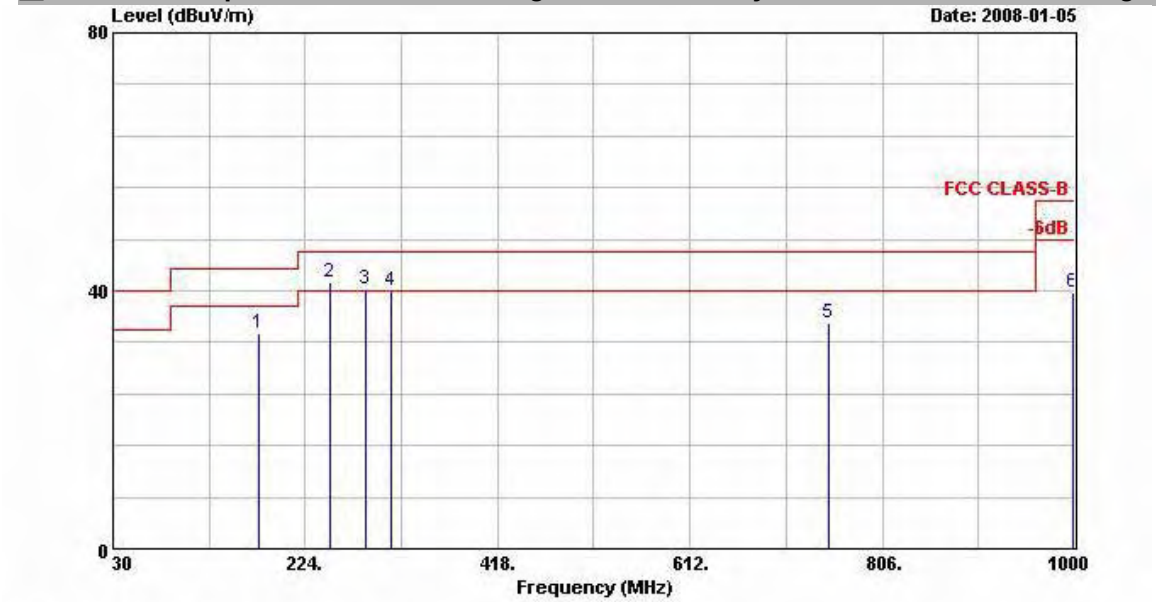
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH44;5220MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1070.000	43.98	-30.02	74.00	47.61	28.36	2.31	34.30	100	0	Peak
2		1662.000	44.11	-29.89	74.00	44.94	29.90	2.97	33.70	100	0	Peak
3		5150.000	39.08	-14.92	54.00	32.43	34.89	6.00	34.24	148	186	Average
4		5150.000	52.31	-21.69	74.00	45.66	34.89	6.00	34.24	100	0	Peak
5	@	5220.000	104.84			98.13	34.93	6.00	34.22	100	0	Peak
6	@	5220.000	84.14			77.43	34.93	6.00	34.22	148	186	Average
7		5250.000	58.93	-15.07	74.00	52.17	34.95	6.00	34.19	100	0	Peak
8		5250.000	43.47	-10.53	54.00	36.71	34.95	6.00	34.19	148	186	Average
9		7084.000	53.95	-20.05	74.00	44.31	36.00	6.40	32.76	100	0	Peak
10		7084.000	43.31	-10.69	54.00	33.67	36.00	6.40	32.76	100	185	Average
11		10437.000	56.55	-17.45	74.00	91.92	-8.60	7.80	34.58	100	0	Peak
12		10437.000	37.54	-16.46	54.00	72.91	-8.60	7.80	34.58	100	12	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

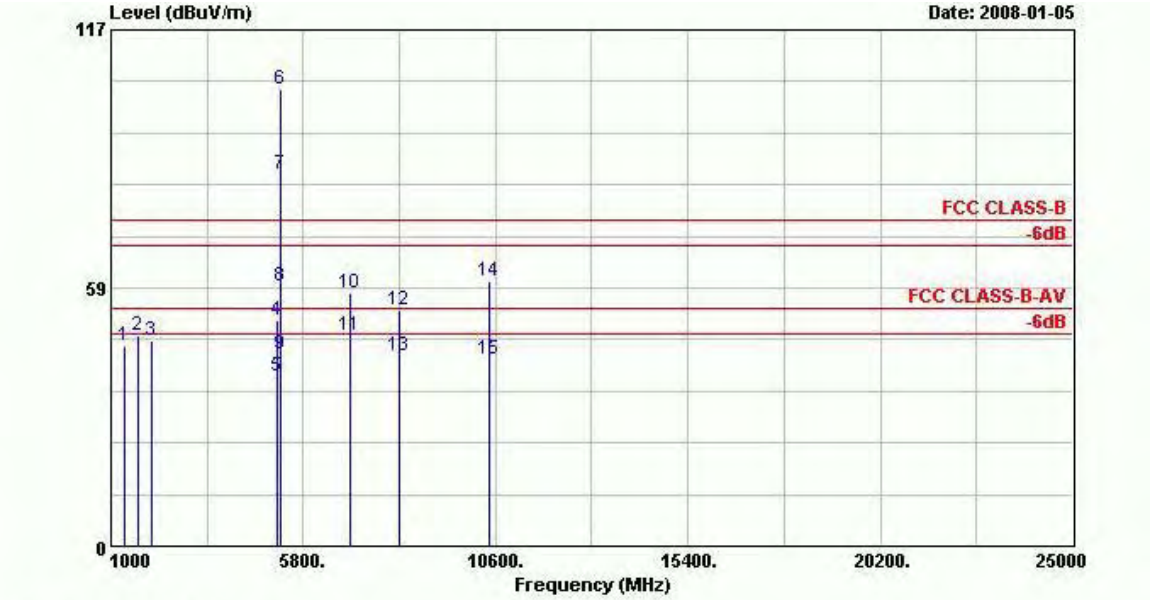
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH44;5220MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	176.340	33.43	-10.07	43.50	50.95	8.61	1.77	27.90	---	---	Peak
2 !	248.970	41.24	-4.76	46.00	54.40	12.50	2.05	27.70	100	164	Peak
3 !	284.340	40.33	-5.67	46.00	53.39	12.39	2.18	27.63	---	---	Peak
4 !	310.500	40.02	-5.98	46.00	52.74	12.68	2.28	27.68	---	---	Peak
5	752.200	35.03	-10.97	46.00	40.48	19.99	3.56	29.00	---	---	Peak
6	998.600	39.84	-14.16	54.00	38.42	26.03	4.00	28.60	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



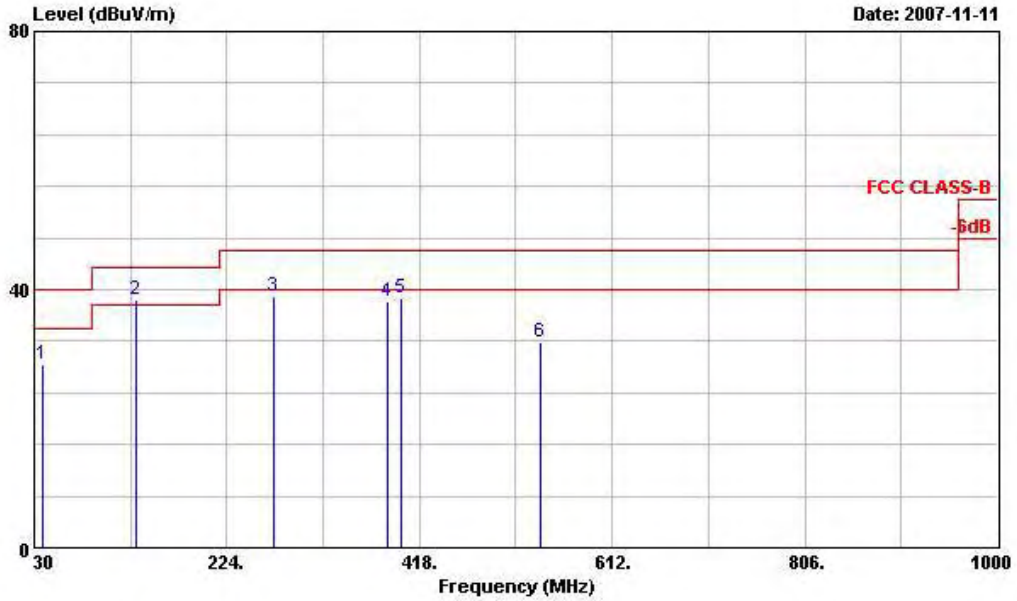
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH44;5220MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1332.000	45.39	-28.61	74.00	48.16	28.58	2.60	33.95	100	0	Peak
2		1662.000	47.79	-26.21	74.00	48.62	29.90	2.97	33.70	100	0	Peak
3		2004.000	46.49	-27.51	74.00	44.55	32.30	3.34	33.70	100	0	Peak
4		5150.000	51.37	-22.63	74.00	44.72	34.89	6.00	34.24	100	0	Peak
5		5150.000	38.49	-15.51	54.00	31.84	34.89	6.00	34.24	100	4	Average
6	X	5220.000	103.63			96.92	34.93	6.00	34.22	100	0	Peak
7	@	5220.000	84.12			77.41	34.93	6.00	34.22	100	4	Average
8		5250.000	58.91	-15.09	74.00	52.15	34.95	6.00	34.19	100	0	Peak
9		5250.000	43.63	-10.37	54.00	36.87	34.95	6.00	34.19	100	4	Average
10		6958.000	57.38	-16.62	74.00	47.56	36.00	6.34	32.52	100	0	Peak
11		6958.000	47.55	-6.45	54.00	37.73	36.00	6.34	32.52	110	135	Average
12		8190.000	53.39	-20.61	74.00	44.19	36.24	6.86	33.89	100	0	Peak
13		8190.000	43.18	-10.82	54.00	33.98	36.24	6.86	33.89	100	132	Average
14		10437.000	60.15	-13.85	74.00	95.52	-8.60	7.80	34.58	100	0	Peak
15		10437.000	42.25	-11.75	54.00	77.62	-8.60	7.80	34.58	100	11	Average

Remark: #6 and #7 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 9
- Polarization : Horizontal

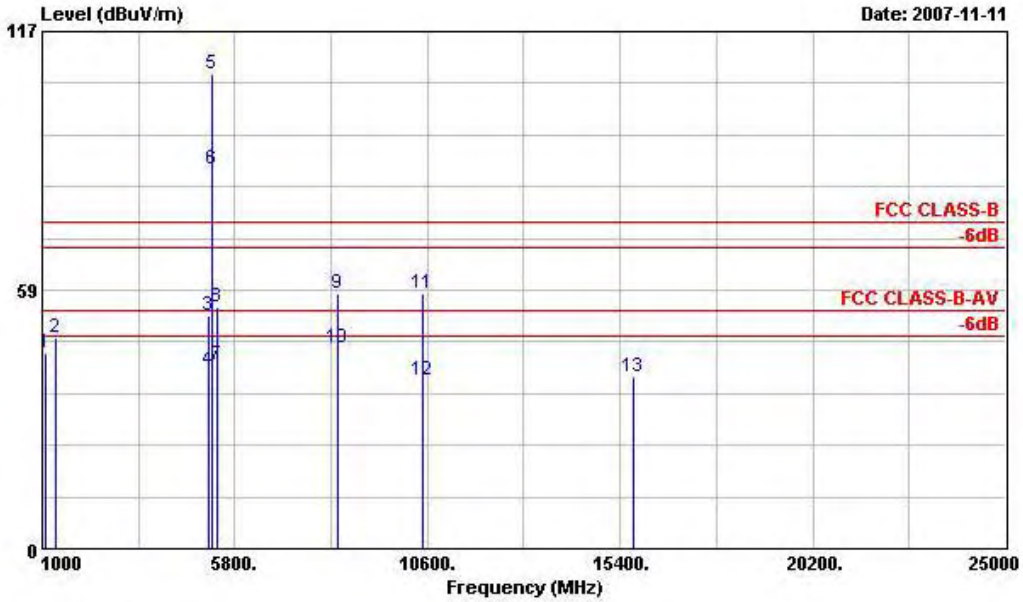
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(20M)_CH48;5240MHz
Data Rate: 48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		38.370	28.43	-11.57	40.00	43.04	12.71	0.95	28.27	---	---	Peak
2	!	132.060	38.51	-4.99	43.50	53.74	11.28	1.56	28.07	100	177	Peak
3		271.380	39.07	-6.93	46.00	52.14	12.46	2.13	27.66	---	---	Peak
4		385.400	38.28	-7.72	46.00	48.70	15.25	2.53	28.20	---	---	Peak
5		399.400	38.56	-7.44	46.00	48.53	15.75	2.57	28.29	---	---	Peak
6		539.400	31.74	-14.26	46.00	39.75	18.07	2.96	29.04	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



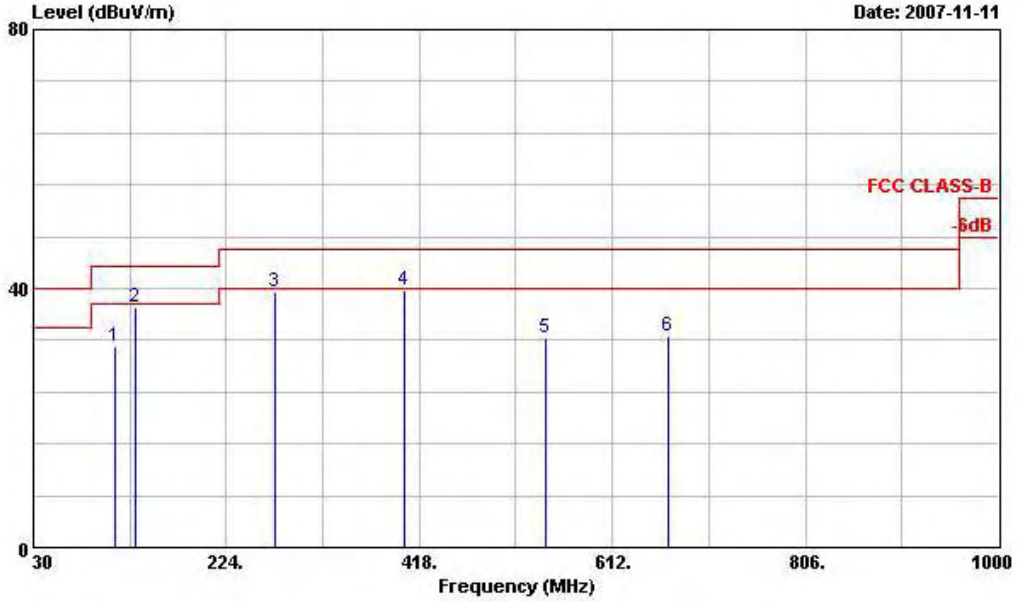
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH48;5240MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1084.000	44.19	-29.81	74.00	50.69	25.46	2.34	34.30	100	0	Peak
2	1332.000	47.63	-26.37	74.00	52.43	26.55	2.60	33.95	100	0	Peak
3	5150.000	52.67	-21.33	74.00	45.63	35.28	6.00	34.24	100	0	Peak
4	5150.000	40.30	-13.70	54.00	33.26	35.28	6.00	34.24	110	355	Average
5 @	5240.000	107.27			100.10	35.38	6.00	34.21	100	0	Peak
6 @	5240.000	85.84			78.67	35.38	6.00	34.21	110	355	Average
7	5350.000	41.64	-12.36	54.00	34.27	35.52	6.00	34.15	110	355	Average
8	5350.000	54.67	-19.33	74.00	47.30	35.52	6.00	34.15	100	0	Peak
9	8350.000	57.59	-16.41	74.00	45.30	39.50	6.93	34.15	100	0	Peak
10	8350.000	45.30	-8.70	54.00	33.01	39.50	6.93	34.15	100	154	Average
11	10482.000	57.59	-16.41	74.00	92.85	-8.53	7.80	34.53	100	0	Peak
12	10482.000	38.14	-15.86	54.00	73.40	-8.53	7.80	34.53	100	187	Average
13	15714.000	39.03	-34.97	74.00	70.90	-5.93	8.73	34.67	100	0	Peak

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

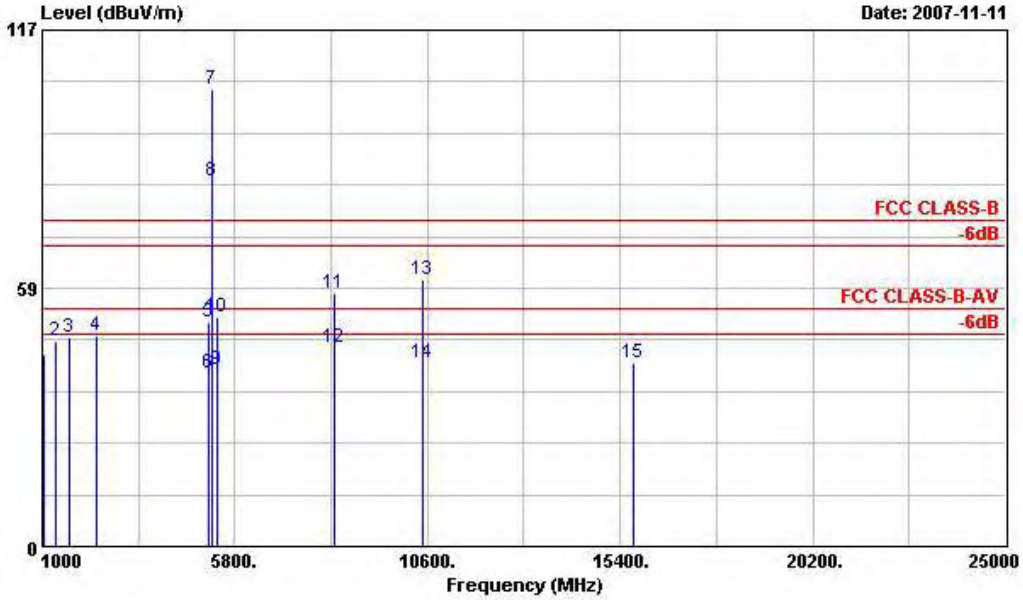
The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH48;5240MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	111.810	31.06	-12.44	43.50	48.23	9.54	1.43	28.15	---	---	Peak
2	132.330	37.01	-6.49	43.50	52.22	11.28	1.57	28.07	---	---	Peak
3	272.730	39.38	-6.62	46.00	52.44	12.45	2.14	27.66	---	---	Peak
4	402.200	39.65	-6.35	46.00	49.60	15.78	2.58	28.31	100	168	Peak
5	545.000	32.24	-13.76	46.00	40.06	18.25	2.98	29.04	---	---	Peak
6	668.200	32.73	-13.27	46.00	38.32	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



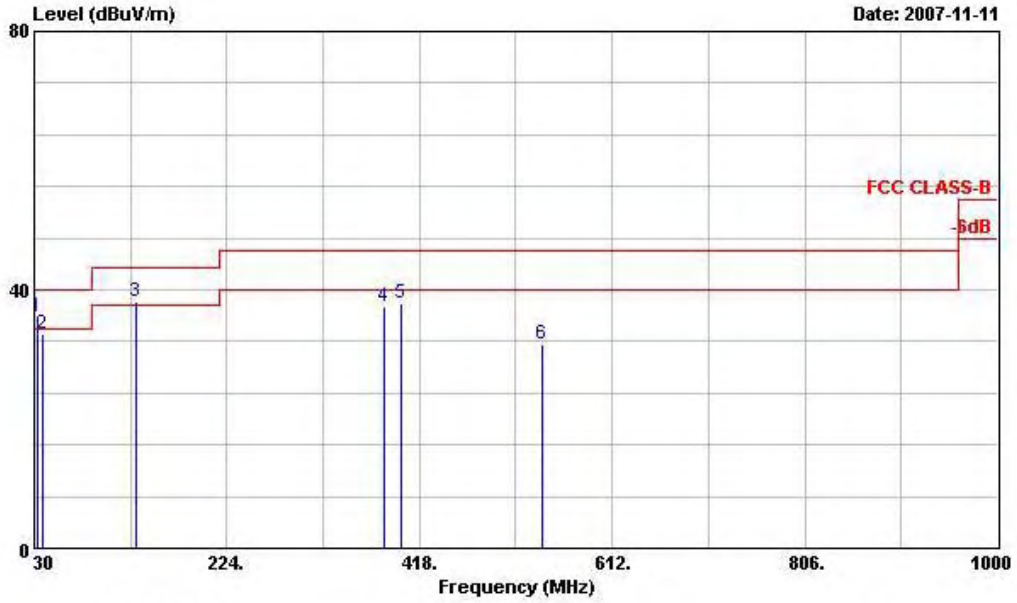
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH48;5240MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1052.000	43.63	-30.37	74.00	50.36	25.32	2.28	34.33	100	0	Peak
2		1332.000	46.50	-27.50	74.00	51.30	26.55	2.60	33.95	100	0	Peak
3		1668.000	47.18	-26.82	74.00	49.44	28.47	2.97	33.70	100	0	Peak
4		2336.000	47.66	-26.34	74.00	47.22	30.52	3.69	33.77	100	0	Peak
5		5150.000	50.82	-23.18	74.00	43.78	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.40	-14.60	54.00	32.36	35.28	6.00	34.24	120	43	Average
7	@	5240.000	103.36			96.19	35.38	6.00	34.21	100	0	Peak
8	X	5240.000	82.87			75.70	35.38	6.00	34.21	120	43	Average
9		5350.000	40.07	-13.93	54.00	32.70	35.52	6.00	34.15	120	43	Average
10		5350.000	52.03	-21.97	74.00	44.66	35.52	6.00	34.15	100	0	Peak
11		8284.000	57.29	-16.71	74.00	44.94	39.50	6.91	34.06	100	0	Peak
12		8284.000	44.94	-9.06	54.00	32.59	39.50	6.91	34.06	100	155	Average
13		10482.000	60.33	-13.67	74.00	95.59	-8.53	7.80	34.53	100	0	Peak
14		10482.000	41.54	-12.46	54.00	76.80	-8.53	7.80	34.53	100	157	Average
15		15717.000	41.42	-32.58	74.00	73.22	-5.86	8.73	34.67	100	0	Peak

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 10
- Polarization : Horizontal

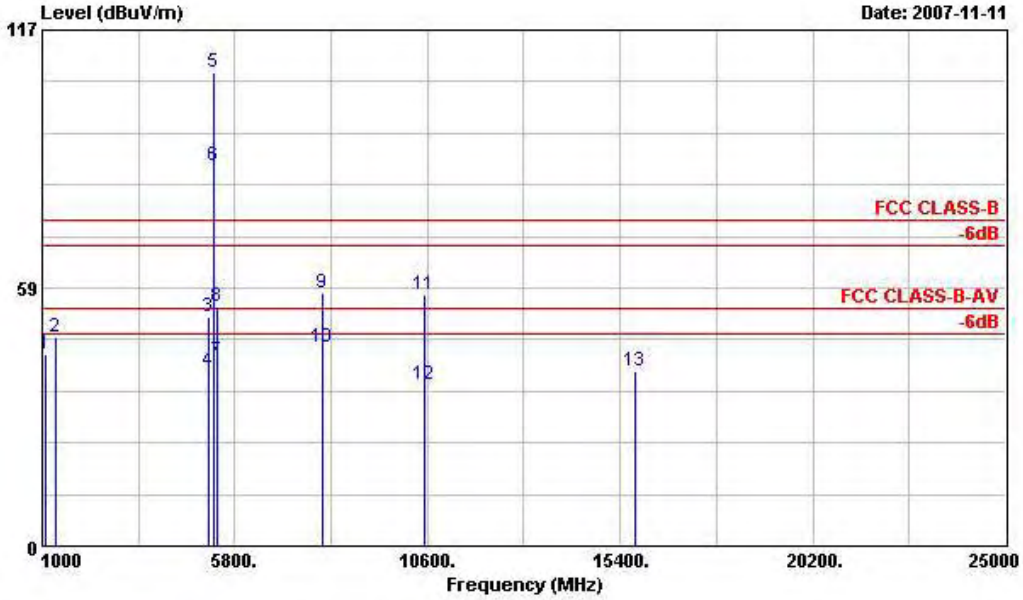
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(20M)_CH52;5260MHz
Data Rate: 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.700	35.87	-4.13	40.00	46.91	16.33	0.90	28.26	100	274	Peak
2	38.100	33.16	-6.84	40.00	46.87	13.61	0.95	28.27	---	---	Peak
3 !	133.140	38.20	-5.30	43.50	53.49	11.20	1.58	28.07	---	---	Peak
4	382.600	37.34	-8.66	46.00	47.82	15.18	2.52	28.18	---	---	Peak
5	399.400	37.81	-8.19	46.00	47.78	15.75	2.57	28.29	---	---	Peak
6	542.200	31.67	-14.33	46.00	39.58	18.16	2.97	29.04	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



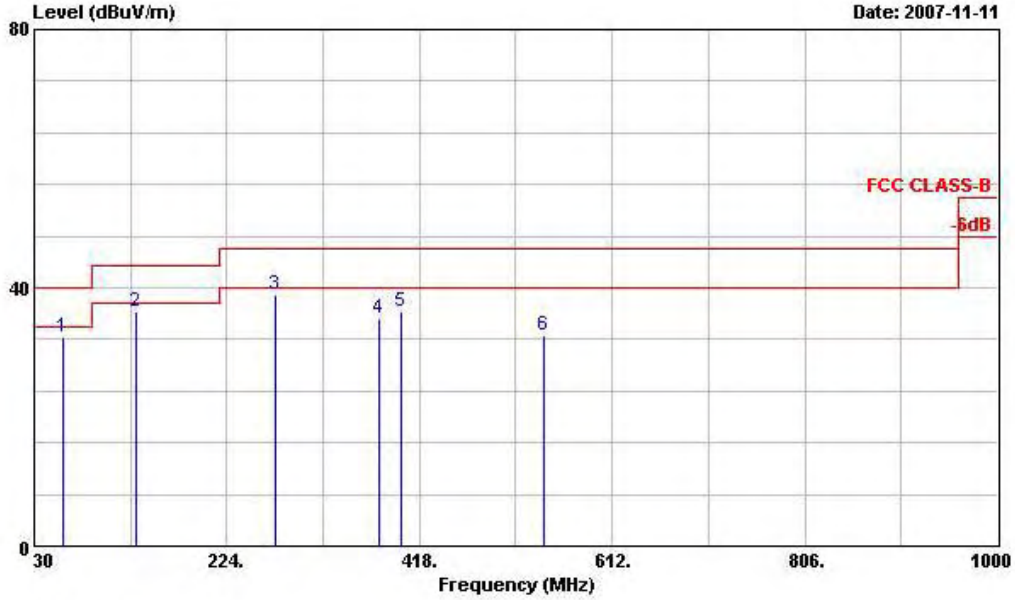
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH52;5260MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1094.000	43.63	-30.37	74.00	50.02	25.53	2.34	34.26	100	0	Peak
2		1332.000	47.47	-26.53	74.00	52.27	26.55	2.60	33.95	100	0	Peak
3		5150.000	51.85	-22.15	74.00	44.81	35.28	6.00	34.24	100	0	Peak
4		5150.000	39.82	-14.18	54.00	32.78	35.28	6.00	34.24	100	356	Average
5	@	5260.000	107.57			100.34	35.42	6.00	34.19	100	0	Peak
6	X	5260.000	86.21			78.98	35.42	6.00	34.19	100	356	Average
7		5350.000	41.84	-12.16	54.00	34.47	35.52	6.00	34.15	100	356	Average
8		5350.000	54.35	-19.65	74.00	46.98	35.52	6.00	34.15	100	0	Peak
9		7966.000	57.35	-16.65	74.00	44.74	39.49	6.74	33.62	100	0	Peak
10		7966.000	44.94	-9.06	54.00	32.33	39.49	6.74	33.62	100	178	Average
11		10518.000	56.78	-17.22	74.00	91.97	-8.49	7.80	34.50	100	0	Peak
12		10518.000	36.45	-17.55	54.00	71.64	-8.49	7.80	34.50	100	47	Average
13		15786.000	39.67	-34.33	74.00	71.03	-5.37	8.74	34.73	100	0	Peak

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

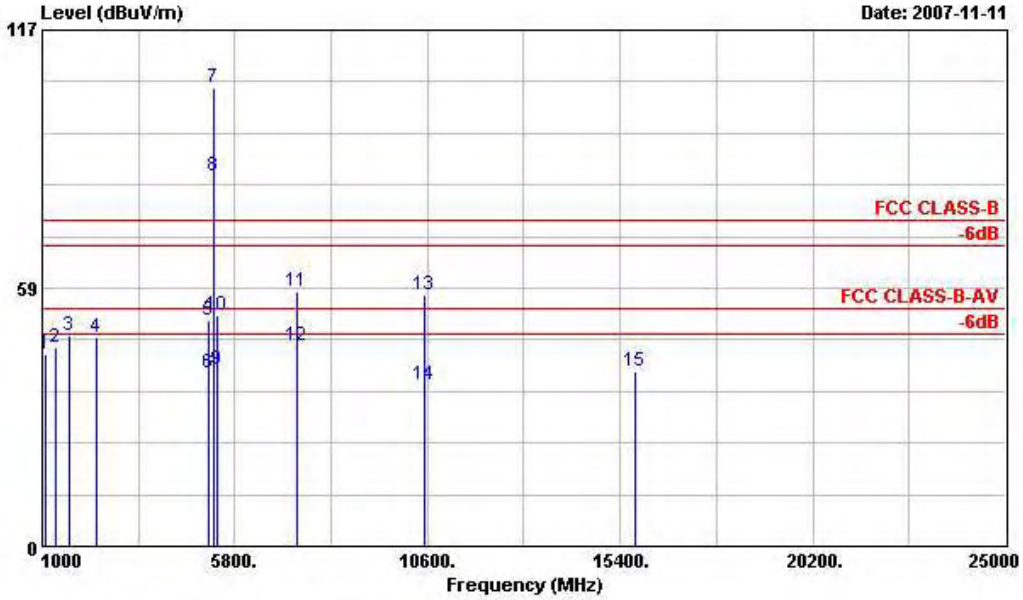
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH52;5260MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	58.890	32.36	-7.64	40.00	55.78	3.76	1.10	28.28	---	---	Peak
2	132.060	36.42	-7.08	43.50	51.65	11.28	1.56	28.07	---	---	Peak
3	272.730	38.99	-7.01	46.00	52.05	12.45	2.14	27.66	100	126	Peak
4	377.700	35.23	-10.77	46.00	45.89	14.98	2.50	28.14	---	---	Peak
5	399.400	36.22	-9.78	46.00	46.19	15.75	2.57	28.29	---	---	Peak
6	542.900	32.56	-13.44	46.00	40.44	18.19	2.97	29.04	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



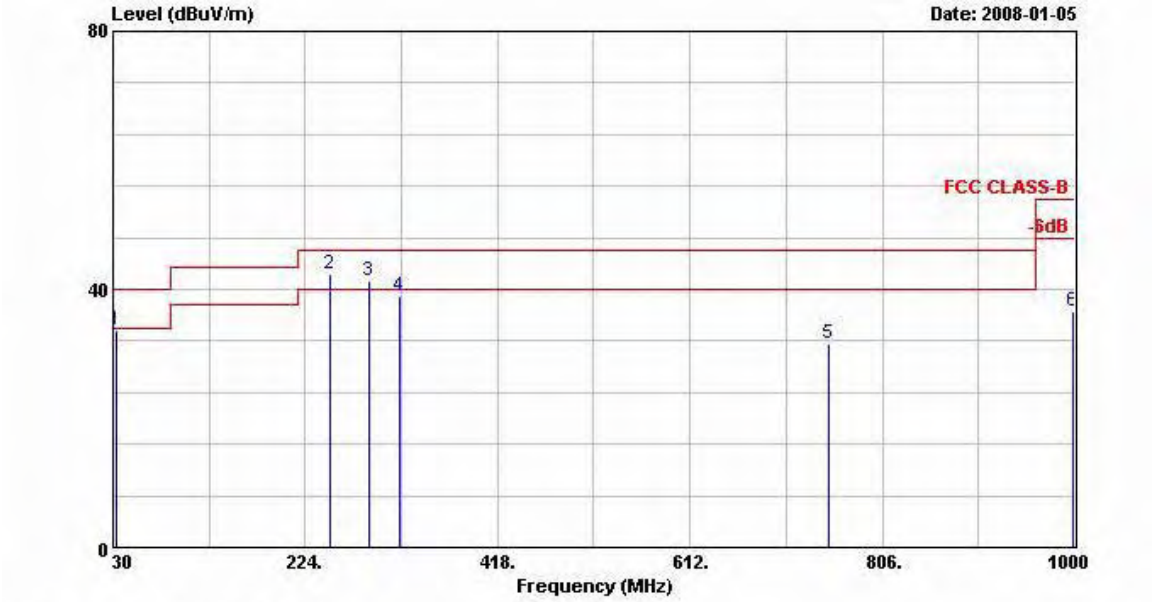
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH52;5260MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1078.000	43.39	-30.61	74.00	49.91	25.46	2.31	34.30	100	0	Peak
2		1332.000	44.97	-29.03	74.00	49.77	26.55	2.60	33.95	100	0	Peak
3		1662.000	47.71	-26.29	74.00	49.97	28.47	2.97	33.70	100	0	Peak
4		2334.000	47.48	-26.52	74.00	47.02	30.54	3.69	33.77	100	0	Peak
5		5150.000	51.32	-22.68	74.00	44.28	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.26	-14.74	54.00	32.22	35.28	6.00	34.24	130	41	Average
7	X	5260.000	103.92			96.69	35.42	6.00	34.19	100	0	Peak
8	X	5260.000	83.87			76.64	35.42	6.00	34.19	130	41	Average
9		5350.000	40.10	-13.90	54.00	32.73	35.52	6.00	34.15	130	41	Average
10		5350.000	52.21	-21.79	74.00	44.84	35.52	6.00	34.15	100	0	Peak
11		7340.000	57.78	-16.22	74.00	45.36	39.34	6.49	33.41	100	0	Peak
12		7340.000	45.31	-8.69	54.00	32.89	39.34	6.49	33.41	100	115	Average
13		10518.000	56.78	-17.22	74.00	91.97	-8.49	7.80	34.50	100	0	Peak
14		10518.000	36.45	-17.55	54.00	71.64	-8.49	7.80	34.50	100	47	Average
15		15786.000	39.67	-34.33	74.00	71.03	-5.37	8.74	34.73	100	0	Peak

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 11
- Polarization : Horizontal

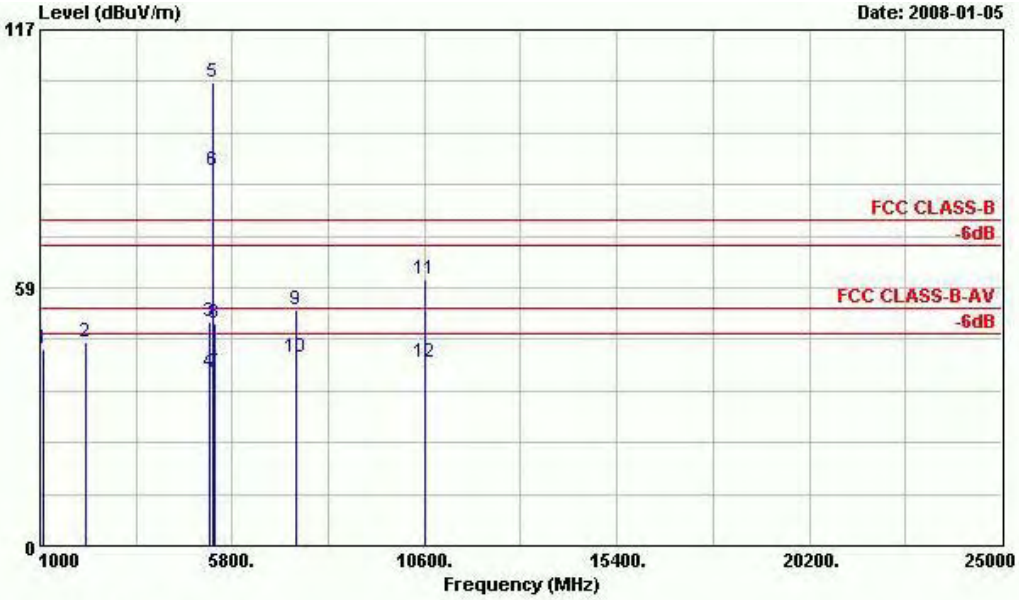
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(20M)_CH60;5300MHz
Data Rate: 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.050	33.65	-6.35	40.00	44.70	16.31	0.91	28.26	---	---	Peak
2 @	248.970	42.32	-3.68	46.00	55.48	12.50	2.05	27.70	100	215	Peak
3 !	288.660	41.44	-4.56	46.00	54.50	12.37	2.20	27.62	---	---	Peak
4	318.900	38.89	-7.11	46.00	51.34	12.98	2.30	27.73	---	---	Peak
5	752.200	31.54	-14.46	46.00	36.99	19.99	3.56	29.00	---	---	Peak
6	998.600	36.70	-17.30	54.00	35.28	26.03	4.00	28.60	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



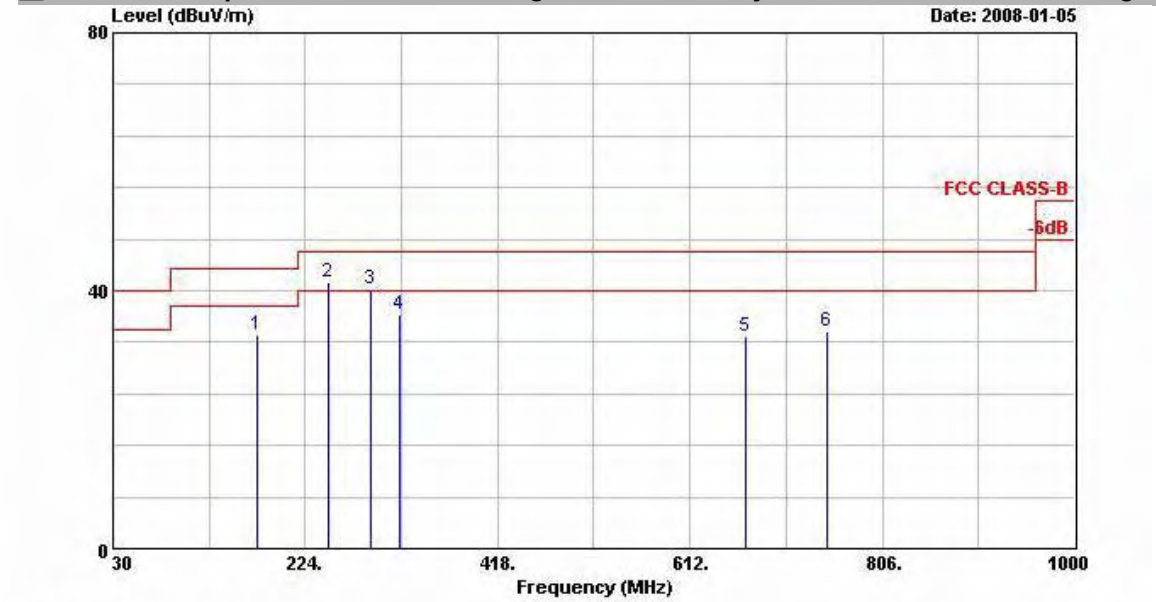
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH60;5300MHz
Data Rate:48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1070.000	44.65	-29.35	74.00	48.28	28.36	2.31	34.30	100	0	Peak
2		2124.000	46.00	-28.00	74.00	43.89	32.37	3.46	33.73	100	0	Peak
3		5250.000	50.98	-23.02	74.00	44.22	34.95	6.00	34.19	100	0	Peak
4		5250.000	39.09	-14.91	54.00	32.33	34.95	6.00	34.19	100	312	Average
5	@	5300.000	105.05			98.24	34.98	6.00	34.17	100	0	Peak
6	@	5300.000	84.88			78.07	34.98	6.00	34.17	100	312	Average
7		5350.000	39.14	-14.86	54.00	32.28	35.01	6.00	34.15	100	312	Average
8		5350.000	50.54	-23.46	74.00	43.68	35.01	6.00	34.15	100	0	Peak
9		7412.000	53.39	-20.61	74.00	44.41	36.00	6.52	33.54	100	0	Peak
10		7412.000	42.87	-11.13	54.00	33.89	36.00	6.52	33.54	100	108	Average
11		10602.000	60.24	-13.76	74.00	95.33	-8.46	7.80	34.44	100	0	Peak
12		10602.000	41.38	-12.62	54.00	76.47	-8.46	7.80	34.44	100	98	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

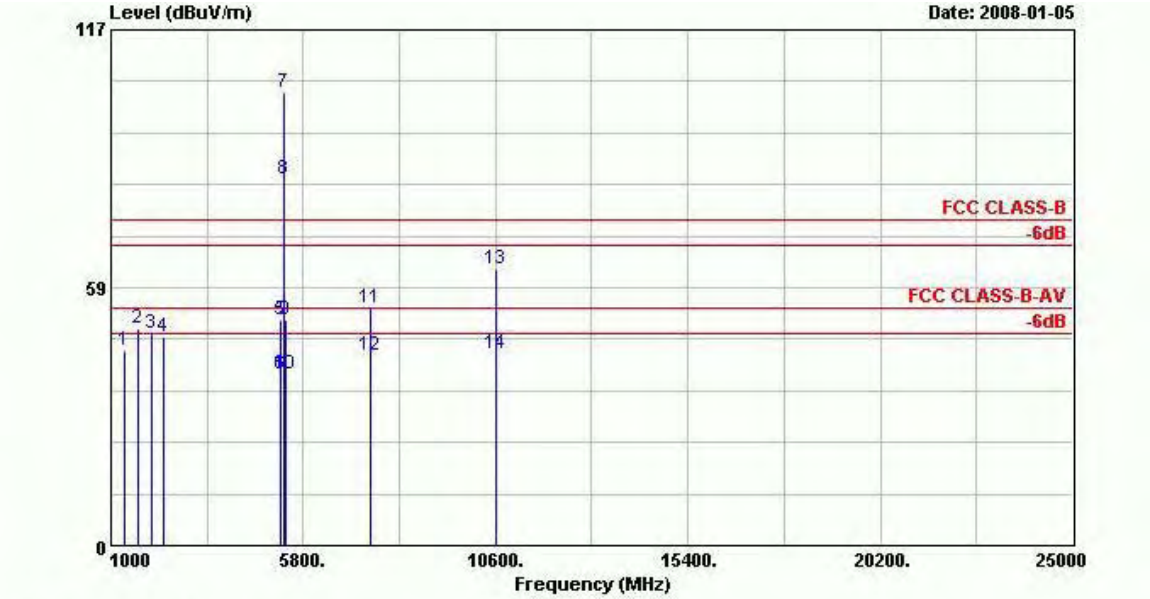
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :lln(a) Tx(20M)_CH60;5300MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	175.530	33.03	-10.47	43.50	50.68	8.49	1.76	27.90	---	---	Peak
2 !	247.620	41.42	-4.58	46.00	54.74	12.35	2.04	27.70	100	184	Peak
3 !	289.740	40.29	-5.71	46.00	53.35	12.36	2.20	27.62	---	---	Peak
4	318.900	36.44	-9.56	46.00	48.89	12.98	2.30	27.73	---	---	Peak
5	668.200	32.99	-13.01	46.00	38.58	20.06	3.45	29.10	---	---	Peak
6	750.100	33.76	-12.24	46.00	39.20	20.00	3.56	29.00	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



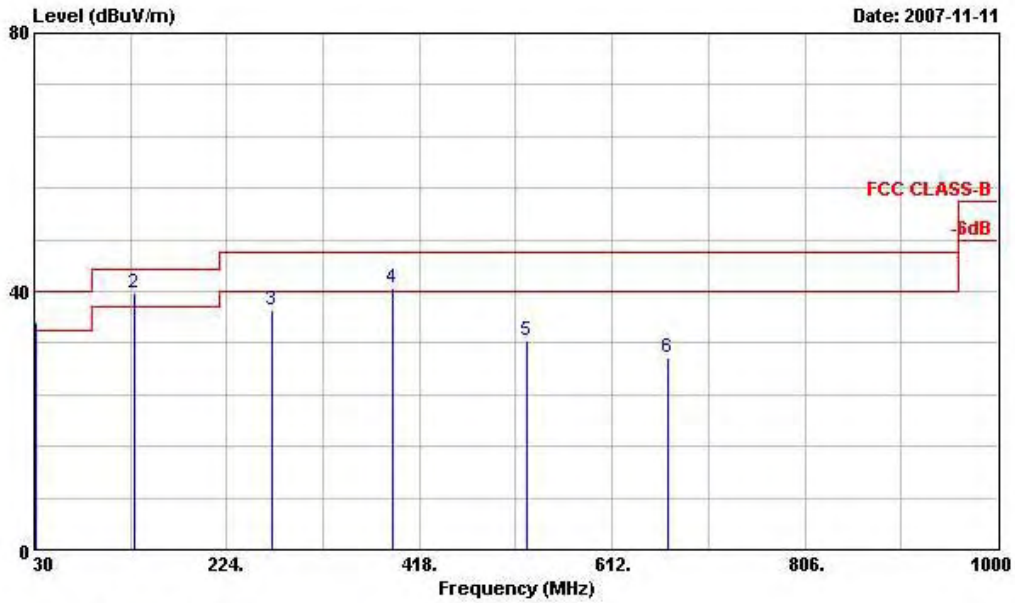
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH60;5300MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1332.000	44.14	-29.86	74.00	46.91	28.58	2.60	33.95	100	0	Peak
2	1668.000	49.38	-24.62	74.00	50.21	29.90	2.97	33.70	100	0	Peak
3	1998.000	47.96	-26.04	74.00	46.02	32.30	3.34	33.70	100	0	Peak
4	2332.000	47.39	-26.61	74.00	44.97	32.50	3.69	33.77	100	0	Peak
5	5250.000	51.12	-22.88	74.00	44.36	34.95	6.00	34.19	100	0	Peak
6	5250.000	38.79	-15.21	54.00	32.03	34.95	6.00	34.19	100	63	Average
7 @	5300.000	102.70			95.89	34.98	6.00	34.17	100	0	Peak
8 @	5300.000	83.25			76.44	34.98	6.00	34.17	100	63	Average
9	5350.000	51.32	-22.68	74.00	44.46	35.01	6.00	34.15	100	0	Peak
10	5350.000	38.93	-15.07	54.00	32.07	35.01	6.00	34.15	100	63	Average
11	7470.000	53.82	-20.18	74.00	45.00	36.00	6.55	33.74	100	0	Peak
12	7470.000	43.01	-10.99	54.00	34.19	36.00	6.55	33.74	100	123	Average
13	10602.000	62.59	-11.41	74.00	97.68	-8.46	7.80	34.44	100	0	Peak
14	10602.000	43.65	-10.35	54.00	78.74	-8.46	7.80	34.44	100	124	Average

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 12
- Polarization : Horizontal

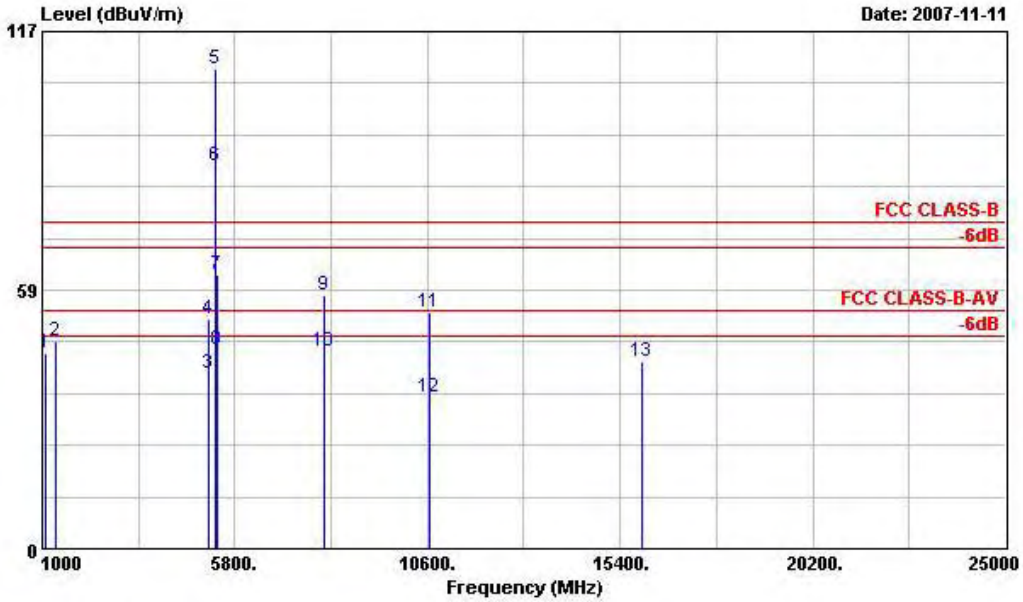
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(20M)_CH64;5320MHz
Data Rate: 48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	!	31.890	35.27	-4.73	40.00	46.30	16.34	0.89	28.26	---	---	Peak
2	@	131.250	39.85	-3.65	43.50	54.99	11.37	1.56	28.08	100	133	Peak
3		269.490	37.13	-8.87	46.00	50.20	12.47	2.13	27.66	---	---	Peak
4	!	391.000	40.48	-5.52	46.00	50.72	15.45	2.54	28.24	---	---	Peak
5		526.100	32.39	-13.61	46.00	40.84	17.66	2.91	29.03	---	---	Peak
6		668.200	29.72	-16.28	46.00	35.31	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



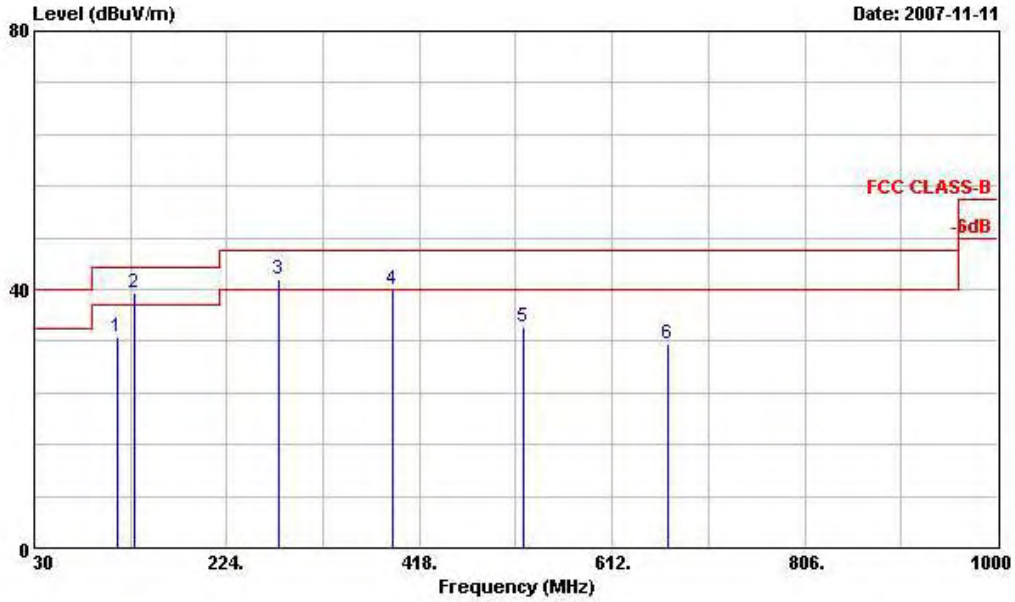
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH64;5320MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1100.000	44.23	-29.77	74.00	50.62	25.53	2.34	34.26	100	0	Peak
2	1332.000	47.10	-26.90	74.00	51.90	26.55	2.60	33.95	100	0	Peak
3	5150.000	39.59	-14.41	54.00	32.55	35.28	6.00	34.24	100	2	Average
4	5150.000	52.07	-21.93	74.00	45.03	35.28	6.00	34.24	100	0	Peak
5 @	5320.000	108.40			101.09	35.48	6.00	34.17	100	0	Peak
6 @	5320.000	86.51			79.20	35.48	6.00	34.17	100	2	Average
7	5350.000	61.90	-12.10	74.00	54.53	35.52	6.00	34.15	100	0	Peak
8	5350.000	44.96	-9.04	54.00	37.59	35.52	6.00	34.15	100	2	Average
9	8046.000	57.22	-16.78	74.00	44.58	39.50	6.78	33.64	100	0	Peak
10	8046.000	44.57	-9.43	54.00	31.93	39.50	6.78	33.64	100	132	Average
11	10638.000	53.51	-20.49	74.00	88.57	-8.44	7.80	34.42	100	0	Peak
12	10638.000	34.14	-19.86	54.00	69.20	-8.44	7.80	34.42	100	128	Average
13	15957.000	42.23	-31.77	74.00	72.52	-4.18	8.77	34.88	100	0	Peak

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

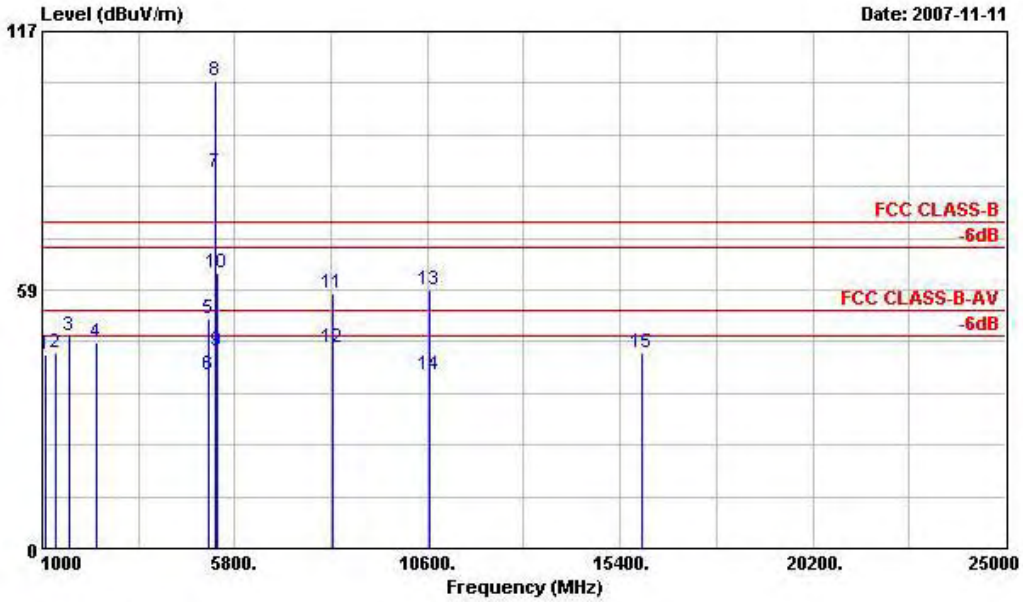
The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(20M)_CH64;5320MHz
Data Rate:48
```

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	113.700	32.58	-10.92	43.50	49.47	9.81	1.44	28.14	---	---	Peak
2 !	131.250	39.46	-4.04	43.50	54.60	11.37	1.56	28.08	100	187	Peak
3 !	275.970	41.62	-4.38	46.00	54.68	12.43	2.15	27.65	---	---	Peak
4 !	391.000	40.03	-5.97	46.00	50.27	15.45	2.54	28.24	---	---	Peak
5	522.600	34.09	-11.91	46.00	42.64	17.58	2.89	29.02	---	---	Peak
6	668.200	31.61	-14.39	46.00	37.20	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



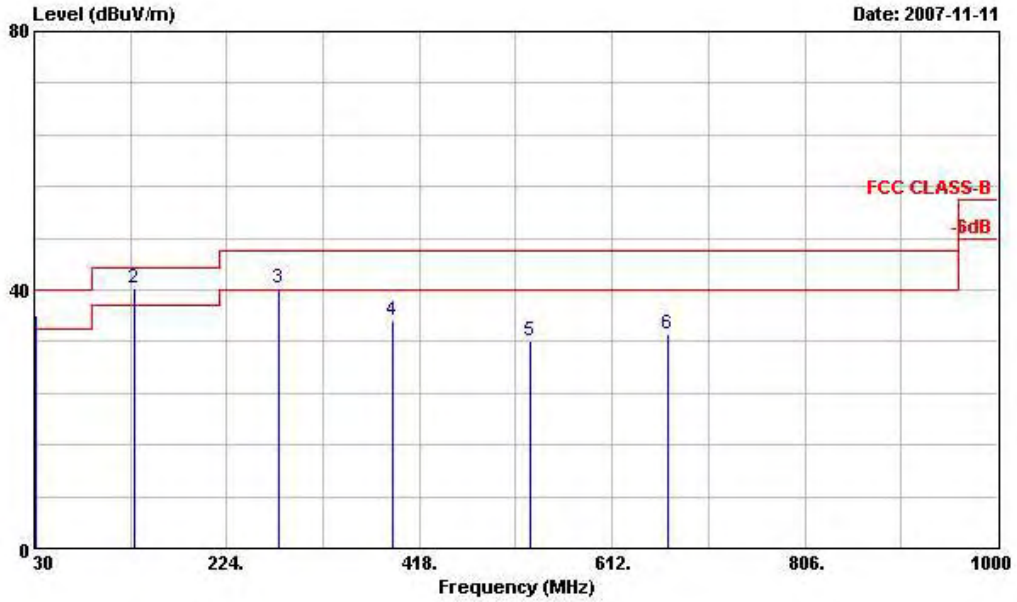
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH64;5320MHz
Data Rate:48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1084.000	43.72	-30.28	74.00	50.22	25.46	2.34	34.30	100	0	Peak
2	1326.000	44.35	-29.65	74.00	49.22	26.48	2.60	33.95	100	0	Peak
3	1668.000	47.94	-26.06	74.00	50.20	28.47	2.97	33.70	100	0	Peak
4	2340.000	46.67	-27.33	74.00	46.23	30.52	3.69	33.77	100	0	Peak
5	5150.000	51.78	-22.22	74.00	44.74	35.28	6.00	34.24	100	0	Peak
6	5150.000	39.24	-14.76	54.00	32.20	35.28	6.00	34.24	112	9	Average
7 @	5320.000	84.89			77.58	35.48	6.00	34.17	112	9	Average
8 @	5320.000	105.87			98.56	35.48	6.00	34.17	100	0	Peak
9	5350.000	44.55	-9.45	54.00	37.18	35.52	6.00	34.15	112	9	Average
10	5350.000	62.31	-11.69	74.00	54.94	35.52	6.00	34.15	100	0	Peak
11	8236.000	57.66	-16.34	74.00	45.25	39.50	6.88	33.98	100	0	Peak
12	8236.000	45.52	-8.48	54.00	33.11	39.50	6.88	33.98	100	114	Average
13	10638.000	58.54	-15.46	74.00	93.60	-8.44	7.80	34.42	100	0	Peak
14	10638.000	39.40	-14.60	54.00	74.46	-8.44	7.80	34.42	100	131	Average
15	15954.000	44.25	-29.75	74.00	74.59	-4.25	8.77	34.86	100	0	Peak

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 13
- Polarization : Horizontal

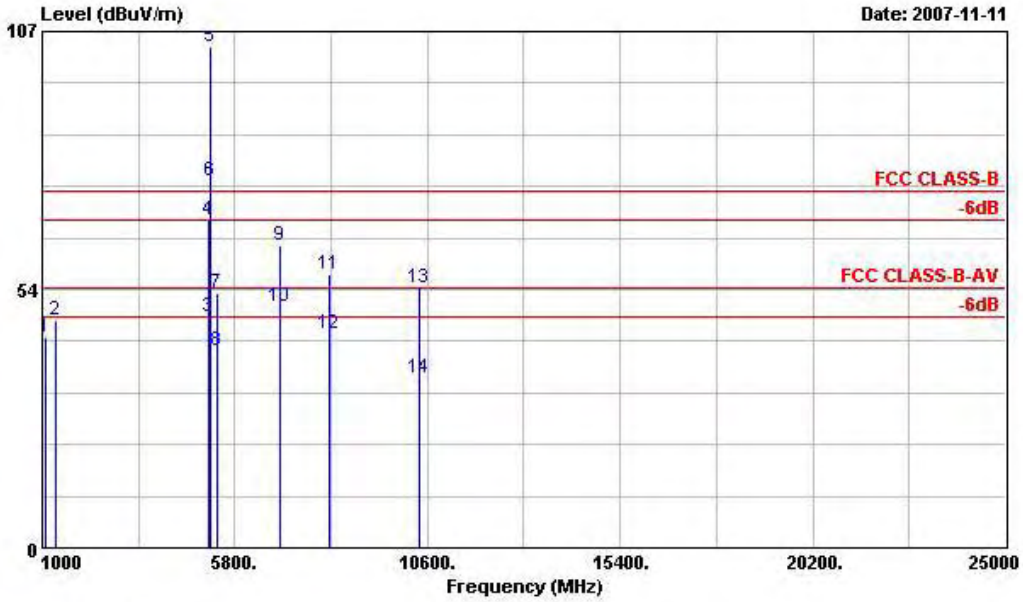
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(40M)_CH38;5190MHz
Data Rate: 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	31.890	36.02	-3.98	40.00	47.05	16.34	0.89	28.26	---	---	Peak
2 !	131.250	40.27	-3.23	43.50	55.41	11.37	1.56	28.08	100	197	Peak
3 !	275.970	40.21	-5.79	46.00	53.27	12.43	2.15	27.65	---	---	Peak
4	391.000	35.24	-10.76	46.00	45.48	15.45	2.54	28.24	---	---	Peak
5	528.900	32.14	-13.86	46.00	40.49	17.75	2.92	29.03	---	---	Peak
6	668.200	33.07	-12.93	46.00	38.66	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



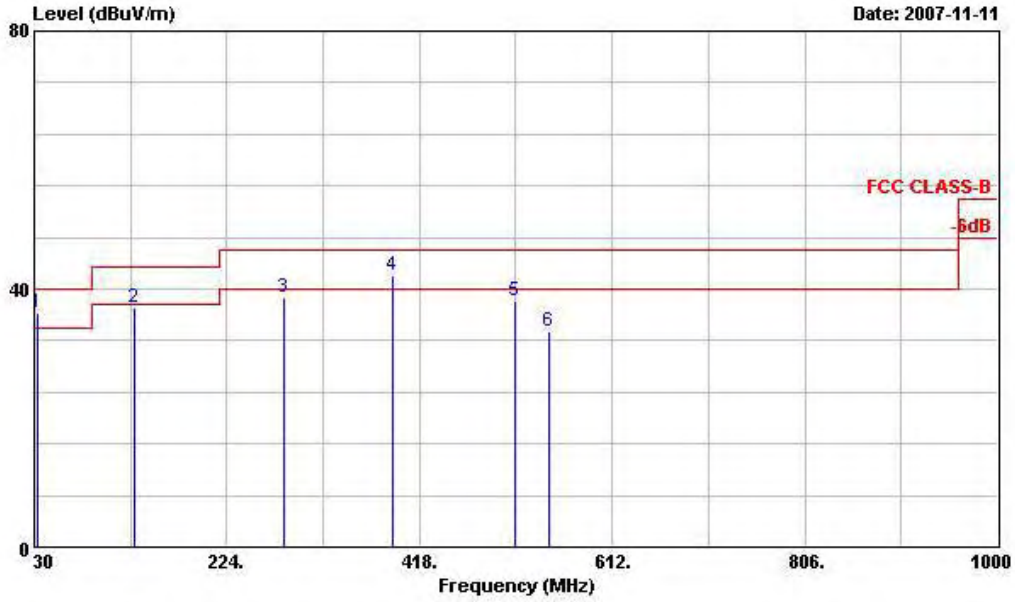
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1094.000	43.66	-30.34	74.00	50.05	25.53	2.34	34.26	100	0	Peak
2		1332.000	47.03	-26.97	74.00	51.83	26.55	2.60	33.95	100	0	Peak
3		5150.000	47.83	-6.17	54.00	40.79	35.28	6.00	34.24	112	4	Average
4		5150.000	67.76	-6.24	74.00	60.72	35.28	6.00	34.24	100	0	Peak
5	@	5190.000	103.66			96.57	35.32	6.00	34.23	100	0	Peak
6	X	5190.000	76.01			68.92	35.32	6.00	34.23	112	4	Average
7		5350.000	52.85	-21.15	74.00	45.48	35.52	6.00	34.15	100	0	Peak
8		5350.000	40.67	-13.33	54.00	33.30	35.52	6.00	34.15	112	4	Average
9		6924.000	62.67	-11.33	74.00	50.15	38.75	6.34	32.56	100	0	Peak
10	!	6924.000	50.14	-3.86	54.00	37.62	38.75	6.34	32.56	100	320	Average
11		8150.000	56.82	-17.18	74.00	44.30	39.50	6.83	33.81	100	0	Peak
12		8150.000	44.29	-9.71	54.00	31.77	39.50	6.83	33.81	100	183	Average
13		10376.000	53.76	-20.24	74.00	89.28	-8.69	7.80	34.63	100	0	Peak
14		10376.000	35.12	-18.88	54.00	70.64	-8.69	7.80	34.63	100	32	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

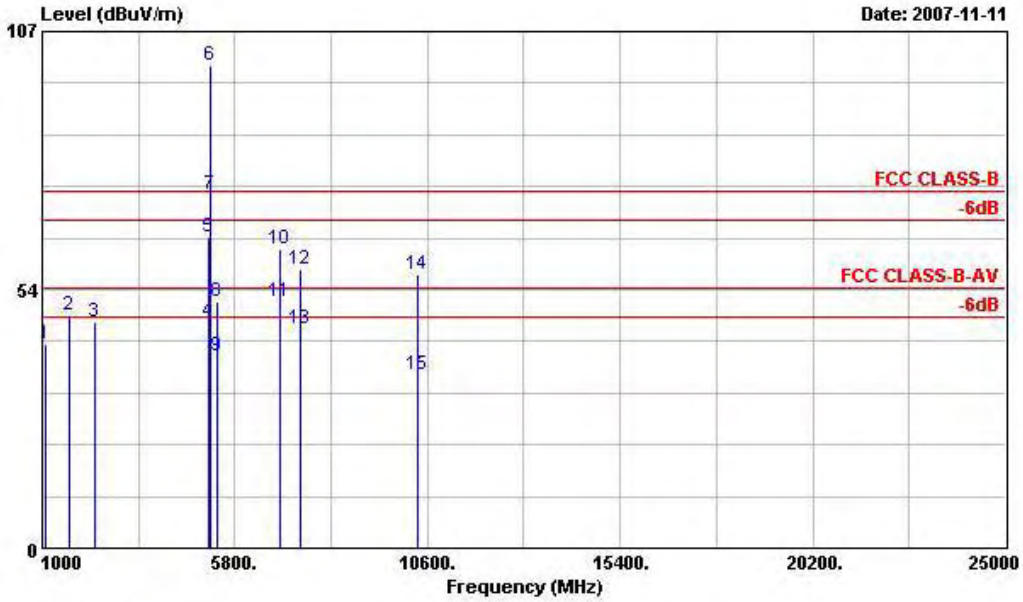
The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9
```

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	!	32.970	36.44	-3.56	40.00	47.48	16.33	0.90	28.26	100	188	Peak
2		131.250	37.13	-6.37	43.50	52.27	11.37	1.56	28.08	---	---	Peak
3		282.180	38.60	-7.40	46.00	51.66	12.40	2.17	27.64	---	---	Peak
4	!	391.000	42.17	-3.83	46.00	52.41	15.45	2.54	28.24	---	---	Peak
5		514.900	38.19	-7.81	46.00	46.99	17.35	2.87	29.01	---	---	Peak
6		547.800	33.43	-12.57	46.00	41.15	18.33	2.99	29.05	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



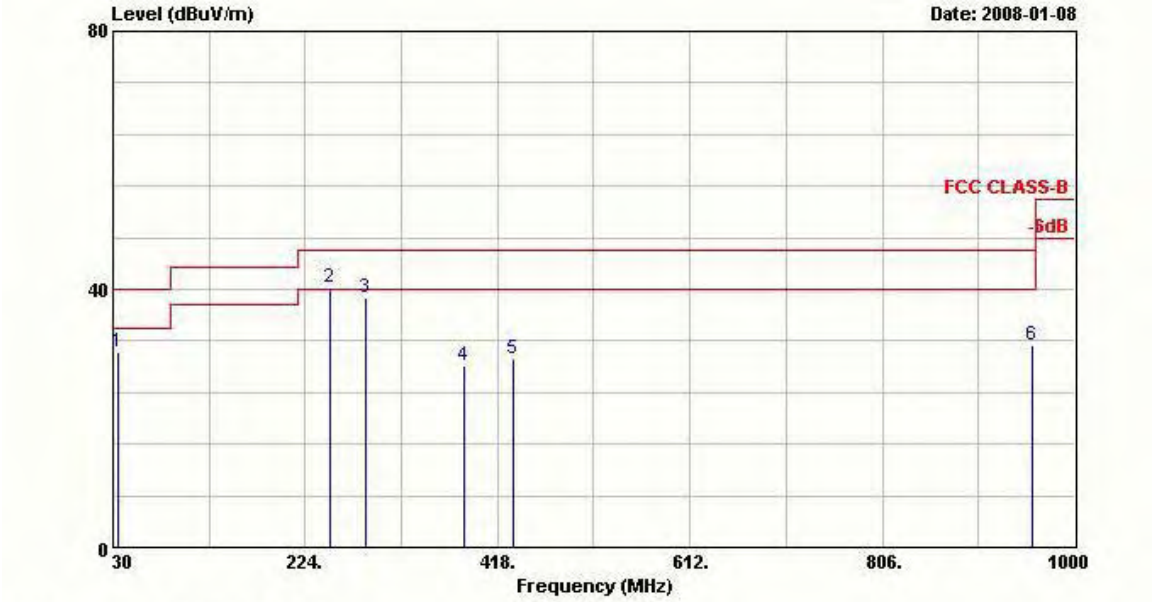
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1078.000	42.12	-31.88	74.00	48.64	25.46	2.31	34.30	100	0	Peak
2		1664.000	48.25	-25.75	74.00	50.51	28.47	2.97	33.70	100	0	Peak
3		2326.000	46.67	-27.33	74.00	46.23	30.54	3.66	33.77	100	0	Peak
4		5150.000	46.67	-7.33	54.00	39.63	35.28	6.00	34.24	107	21	Average
5		5150.000	64.37	-9.63	74.00	57.33	35.28	6.00	34.24	100	0	Peak
6	@	5190.000	100.03			92.94	35.32	6.00	34.23	100	0	Peak
7	X	5190.000	73.36			66.27	35.32	6.00	34.23	107	21	Average
8		5350.000	51.14	-22.86	74.00	43.77	35.52	6.00	34.15	100	0	Peak
9		5350.000	39.62	-14.38	54.00	32.25	35.52	6.00	34.15	107	21	Average
10		6924.000	62.12	-11.88	74.00	49.60	38.75	6.34	32.56	100	0	Peak
11	!	6924.000	51.14	-2.86	54.00	38.62	38.75	6.34	32.56	100	155	Average
12		7420.000	57.64	-16.36	74.00	45.34	39.37	6.53	33.61	100	0	Peak
13		7420.000	45.34	-8.66	54.00	33.04	39.37	6.53	33.61	100	278	Average
14		10374.000	56.78	-17.22	74.00	92.32	-8.71	7.80	34.63	100	0	Peak
15		10374.000	35.87	-18.13	54.00	71.41	-8.71	7.80	34.63	100	271	Average

Remark: #6 and #7 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 14
- Polarization : Horizontal

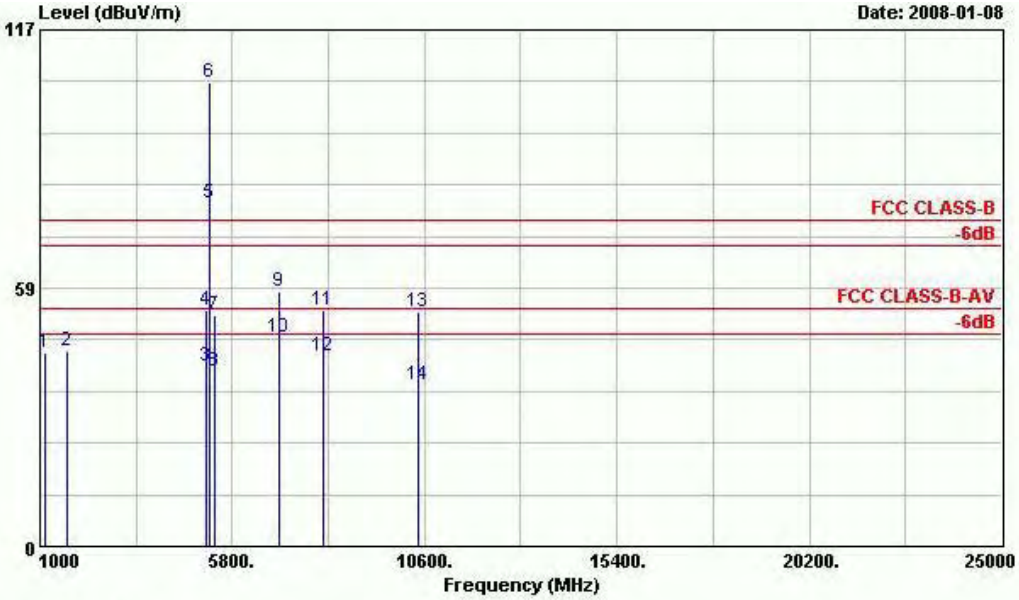
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(40M)_CH46;5230MHz
Data Rate: 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.130	30.37	-9.63	40.00	41.65	16.29	0.69	28.26	---	---	Peak
2 !	248.970	40.16	-5.84	46.00	53.53	12.50	1.84	27.70	100	142	Peak
3	284.340	38.77	-7.23	46.00	52.02	12.39	1.99	27.63	---	---	Peak
4	383.300	28.20	-17.80	46.00	38.86	15.18	2.34	28.18	---	---	Peak
5	433.700	29.21	-16.79	46.00	39.11	16.14	2.49	28.54	---	---	Peak
6	957.300	31.36	-14.64	46.00	31.29	24.96	3.79	28.69	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



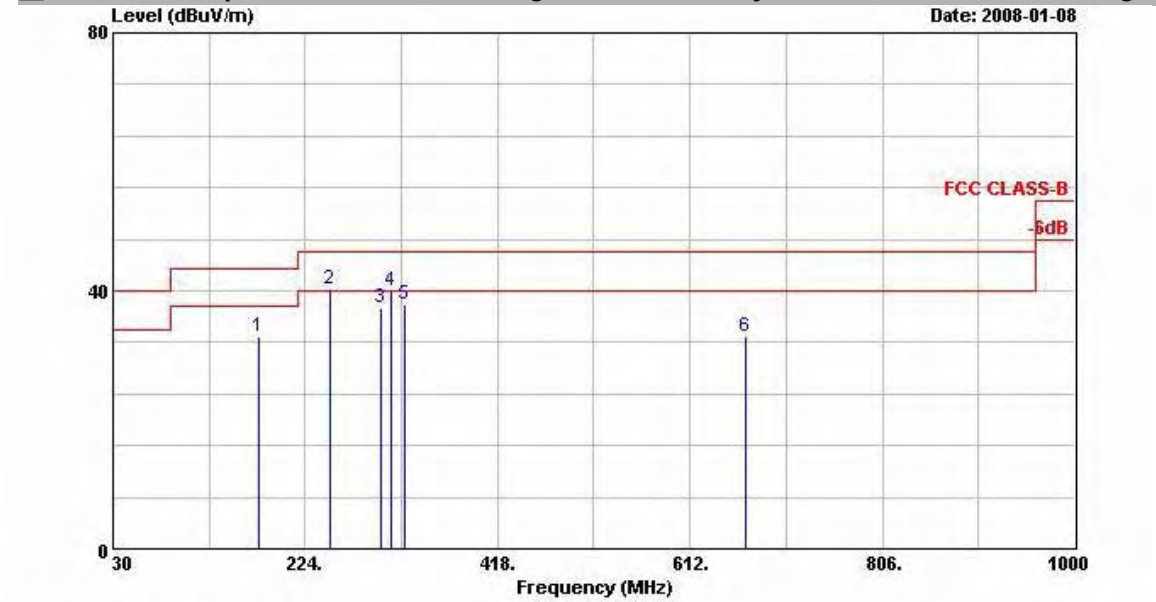
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH46;5230MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1118.000	44.05	-29.95	74.00	47.52	28.40	2.36	34.23	100	0	Peak
2		1662.000	44.40	-29.60	74.00	45.23	29.90	2.97	33.70	100	0	Peak
3		5150.000	40.84	-13.16	54.00	34.19	34.89	6.00	34.24	107	2	Average
4		5150.000	53.58	-20.42	74.00	46.93	34.89	6.00	34.24	100	0	Peak
5	X	5230.000	77.67			70.94	34.94	6.00	34.21	107	2	Average
6	@	5230.000	105.02			98.29	34.94	6.00	34.21	100	0	Peak
7		5350.000	52.38	-21.62	74.00	45.52	35.01	6.00	34.15	100	0	Peak
8		5350.000	39.54	-14.46	54.00	32.68	35.01	6.00	34.15	107	2	Average
9		6974.000	57.80	-16.20	74.00	47.97	36.00	6.35	32.52	100	0	Peak
10		6974.000	47.31	-6.69	54.00	37.48	36.00	6.35	32.52	100	127	Average
11		8060.000	53.40	-20.60	74.00	44.09	36.21	6.78	33.68	100	0	Peak
12		8060.000	43.08	-10.92	54.00	33.77	36.21	6.78	33.68	100	130	Average
13		10458.000	53.22	-20.78	74.00	88.53	-8.56	7.80	34.55	100	0	Peak
14		10458.000	36.75	-17.25	54.00	72.06	-8.56	7.80	34.55	100	171	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

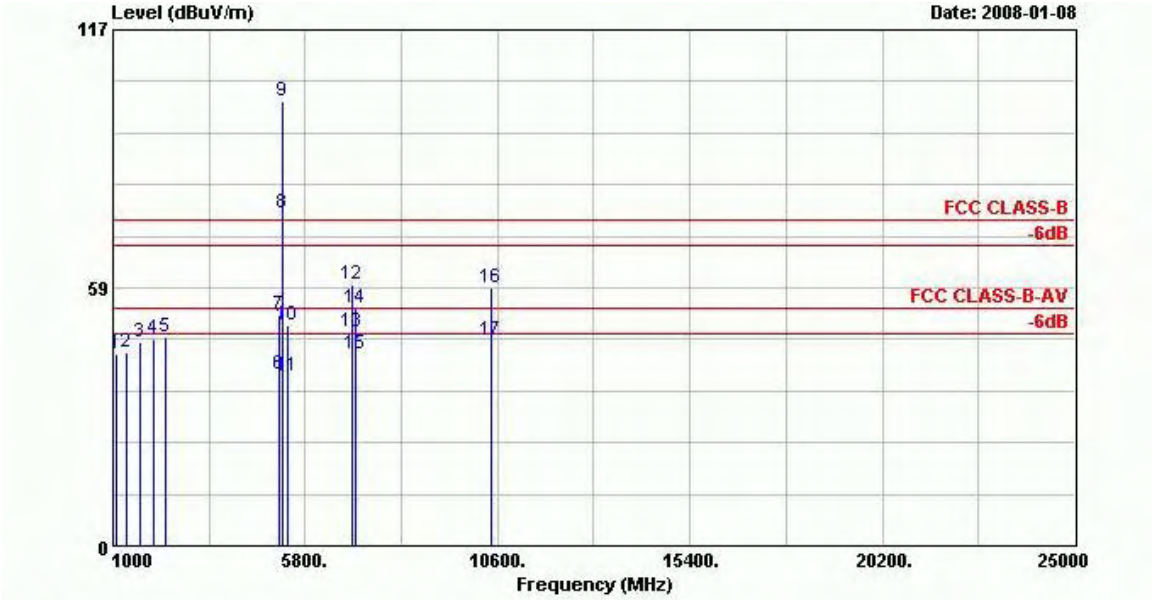
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH46;5230MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	176.340	33.02	-10.48	43.50	50.72	8.61	1.59	27.90	---	---	Peak
2 !	248.970	40.32	-5.68	46.00	53.69	12.50	1.84	27.70	100	174	Peak
3	299.460	37.45	-8.55	46.00	50.69	12.31	2.05	27.60	---	---	Peak
4	310.500	39.92	-6.08	46.00	52.83	12.68	2.09	27.68	---	---	Peak
5	324.500	37.91	-8.09	46.00	50.37	13.18	2.14	27.77	---	---	Peak
6	668.200	33.02	-12.98	46.00	38.89	20.06	3.17	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



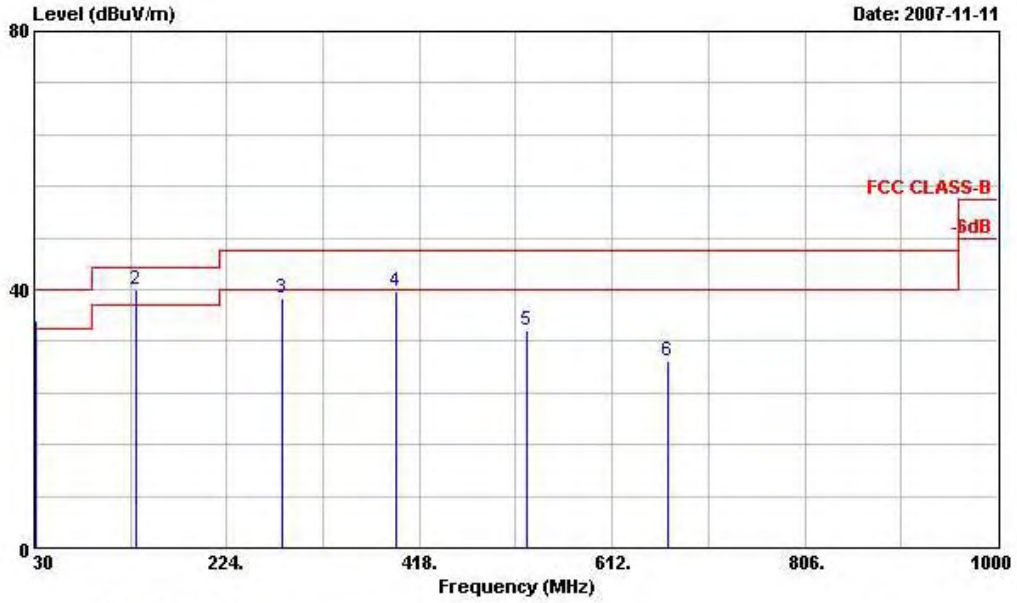
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH46;5230MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1100.000	43.43	-30.57	74.00	46.97	28.38	2.34	34.26	100	0	Peak
2		1332.000	44.05	-29.95	74.00	46.82	28.58	2.60	33.95	100	0	Peak
3		1668.000	46.33	-27.67	74.00	47.16	29.90	2.97	33.70	100	0	Peak
4		2004.000	46.87	-27.13	74.00	44.93	32.30	3.34	33.70	100	0	Peak
5		2332.000	47.17	-26.83	74.00	44.75	32.50	3.69	33.77	100	0	Peak
6		5150.000	38.98	-15.02	54.00	32.33	34.89	6.00	34.24	121	7	Average
7		5150.000	52.46	-21.54	74.00	45.81	34.89	6.00	34.24	100	0	Peak
8	X	5230.000	75.24			68.51	34.94	6.00	34.21	121	7	Average
9	@	5230.000	100.70			93.97	34.94	6.00	34.21	100	0	Peak
10		5350.000	50.11	-23.89	74.00	43.25	35.01	6.00	34.15	100	0	Peak
11		5350.000	38.30	-15.70	54.00	31.44	35.01	6.00	34.15	121	7	Average
12		6974.000	59.18	-14.82	74.00	49.35	36.00	6.35	32.52	100	0	Peak
13	!	6974.000	48.34	-5.66	54.00	38.51	36.00	6.35	32.52	100	135	Average
14		7036.000	54.07	-19.93	74.00	44.32	36.00	6.38	32.63	100	0	Peak
15		7036.000	43.32	-10.68	54.00	33.57	36.00	6.38	32.63	100	158	Average
16		10458.000	58.54	-15.46	74.00	93.85	-8.56	7.80	34.55	100	0	Peak
17		10458.000	46.68	-7.32	54.00	81.99	-8.56	7.80	34.55	100	187	Average

Remark: #8 and #9 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 15
- Polarization : Horizontal

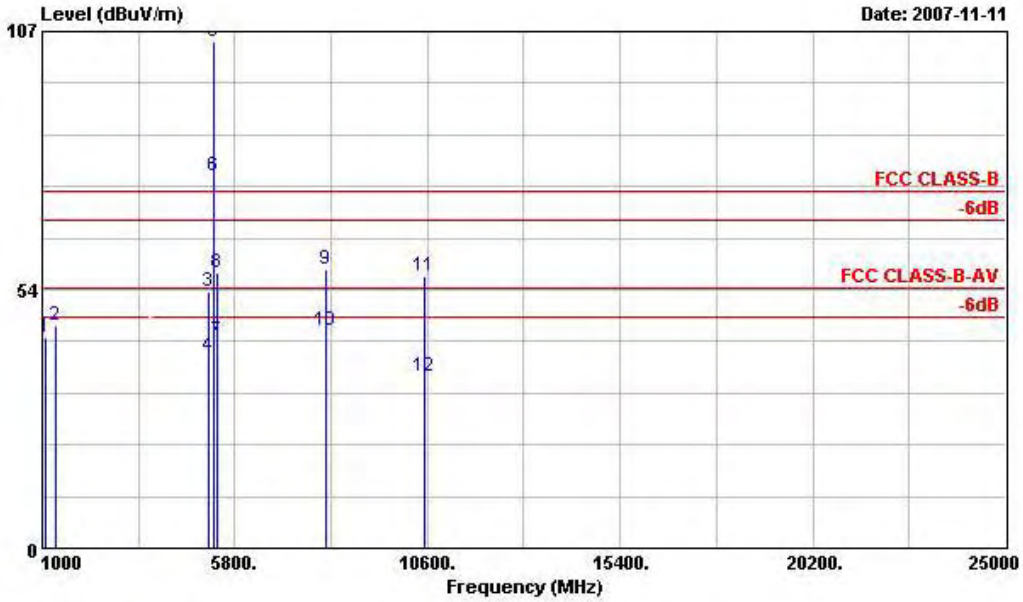
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(40M)_CH54;5270MHz
Data Rate: 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	31.620	35.36	-4.64	40.00	46.40	16.34	0.88	28.26	---	---	Peak
2 !	133.410	39.96	-3.54	43.50	55.34	11.11	1.58	28.07	100	203	Peak
3	280.020	38.71	-7.29	46.00	51.77	12.41	2.17	27.64	---	---	Peak
4	394.500	39.74	-6.26	46.00	49.86	15.58	2.56	28.26	---	---	Peak
5	526.100	33.71	-12.29	46.00	42.16	17.66	2.91	29.03	---	---	Peak
6	668.200	29.05	-16.95	46.00	34.64	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



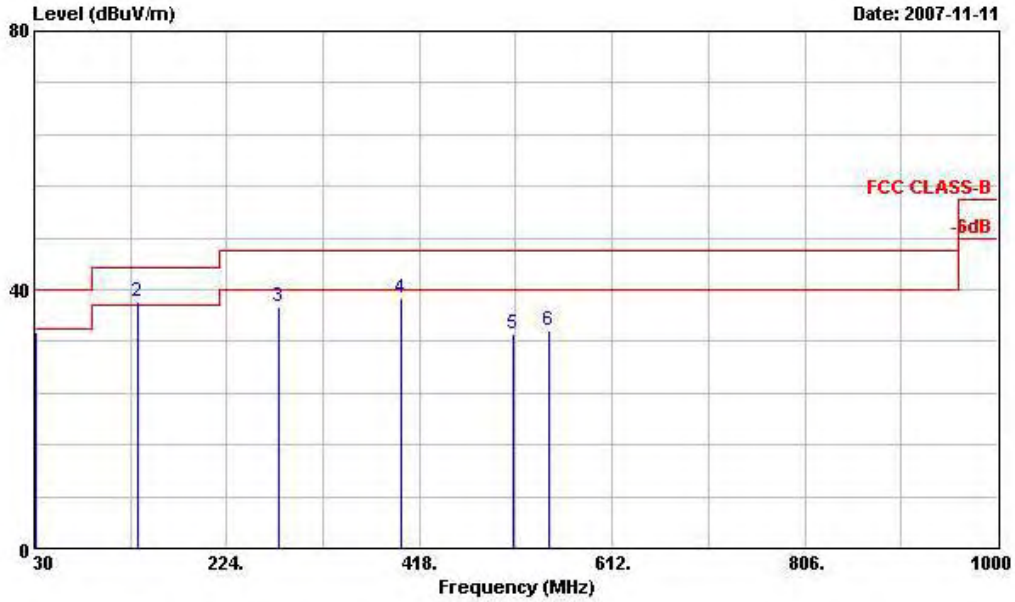
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH54;5270MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1100.000	43.66	-30.34	74.00	50.05	25.53	2.34	34.26	100	0	Peak
2	1334.000	46.15	-27.85	74.00	50.95	26.55	2.60	33.95	100	0	Peak
3	5150.000	53.13	-20.87	74.00	46.09	35.28	6.00	34.24	100	0	Peak
4	5150.000	39.78	-14.22	54.00	32.74	35.28	6.00	34.24	100	2	Average
5 @	5270.000	104.92			97.69	35.42	6.00	34.19	100	0	Peak
6 X	5270.000	77.00			69.77	35.42	6.00	34.19	100	2	Average
7	5350.000	42.78	-11.22	54.00	35.41	35.52	6.00	34.15	100	2	Average
8	5350.000	56.99	-17.01	74.00	49.62	35.52	6.00	34.15	100	0	Peak
9	8076.000	57.76	-16.24	74.00	45.15	39.50	6.80	33.68	100	0	Peak
10	8076.000	45.14	-8.86	54.00	32.53	39.50	6.80	33.68	100	244	Average
11	10542.000	56.19	-17.81	74.00	91.36	-8.48	7.80	34.48	100	0	Peak
12	10542.000	35.54	-18.46	54.00	70.71	-8.48	7.80	34.48	100	278	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

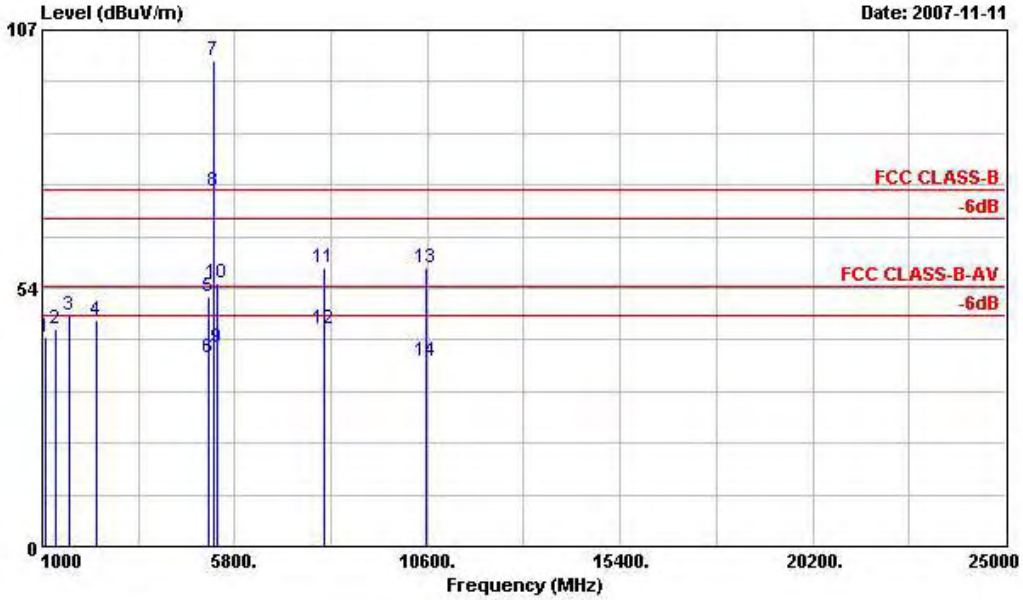
The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH54;5270MHz
Data Rate:9
```

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	33.41	-6.59	40.00	44.44	16.34	0.89	28.26	---	---	Peak
2 !	134.220	38.18	-5.32	43.50	53.55	11.11	1.59	28.07	100	171	Peak
3	277.050	37.33	-8.67	46.00	50.39	12.43	2.15	27.65	---	---	Peak
4	399.400	38.60	-7.40	46.00	48.57	15.75	2.57	28.29	---	---	Peak
5	512.100	33.17	-12.83	46.00	42.07	17.26	2.86	29.01	---	---	Peak
6	548.500	33.78	-12.22	46.00	41.47	18.36	3.00	29.05	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



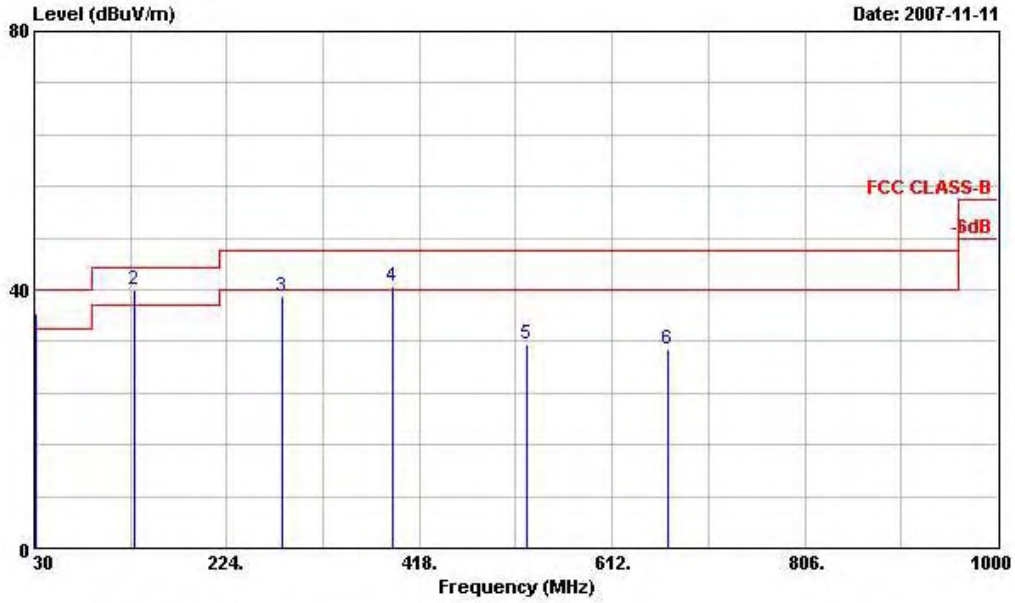
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH54;5270MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1084.000	43.41	-30.59	74.00	49.91	25.46	2.34	34.30	100	0	Peak
2		1332.000	45.00	-29.00	74.00	49.80	26.55	2.60	33.95	100	0	Peak
3		1668.000	47.79	-26.21	74.00	50.05	28.47	2.97	33.70	100	0	Peak
4		2334.000	46.83	-27.17	74.00	46.37	30.54	3.69	33.77	100	0	Peak
5		5150.000	51.61	-22.39	74.00	44.57	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.23	-14.77	54.00	32.19	35.28	6.00	34.24	110	43	Average
7	@	5270.000	100.60			93.37	35.42	6.00	34.19	100	0	Peak
8	X	5270.000	73.71			66.48	35.42	6.00	34.19	110	43	Average
9		5350.000	41.14	-12.86	54.00	33.77	35.52	6.00	34.15	110	43	Average
10		5350.000	54.44	-19.56	74.00	47.07	35.52	6.00	34.15	100	0	Peak
11		8030.000	57.83	-16.17	74.00	45.20	39.50	6.77	33.64	100	0	Peak
12		8030.000	45.19	-8.81	54.00	32.56	39.50	6.77	33.64	100	127	Average
13		10545.000	57.67	-16.33	74.00	92.84	-8.48	7.80	34.48	100	0	Peak
14		10545.000	38.41	-15.59	54.00	73.58	-8.48	7.80	34.48	100	57	Average

Remark: #7 and #8 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 16
- Polarization : Horizontal

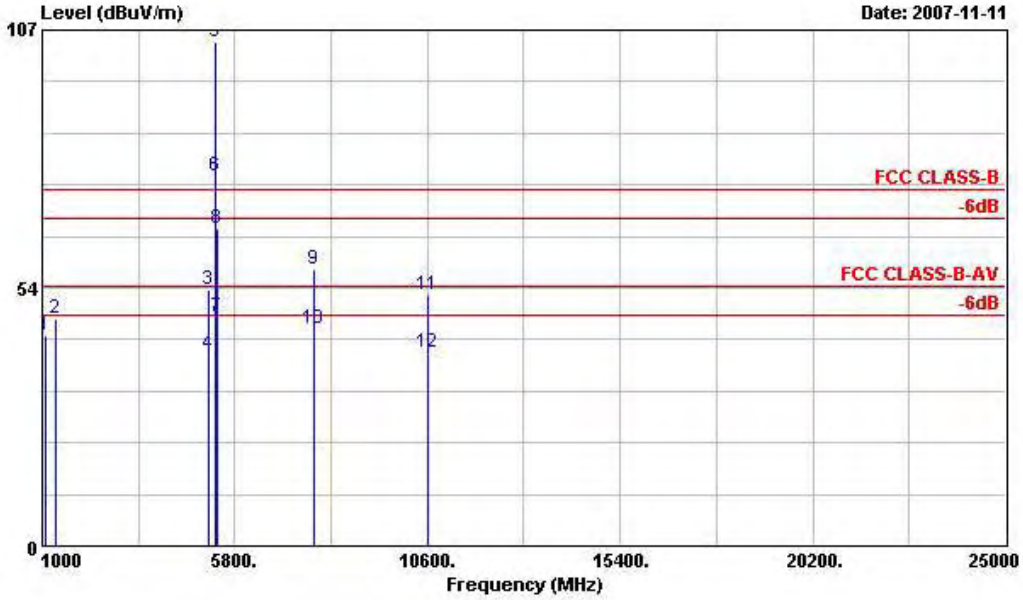
The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11n(a) Tx(40M)_CH62;5310MHz
Data Rate: 9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	31.890	36.38	-3.62	40.00	47.41	16.34	0.89	28.26	---	---	Peak
2 !	131.250	39.89	-3.61	43.50	55.03	11.37	1.56	28.08	100	185	Peak
3	279.210	38.84	-7.16	46.00	51.90	12.42	2.16	27.64	---	---	Peak
4 !	391.000	40.59	-5.41	46.00	50.83	15.45	2.54	28.24	---	---	Peak
5	526.100	31.49	-14.51	46.00	39.94	17.66	2.91	29.03	---	---	Peak
6	668.200	30.67	-15.33	46.00	36.26	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



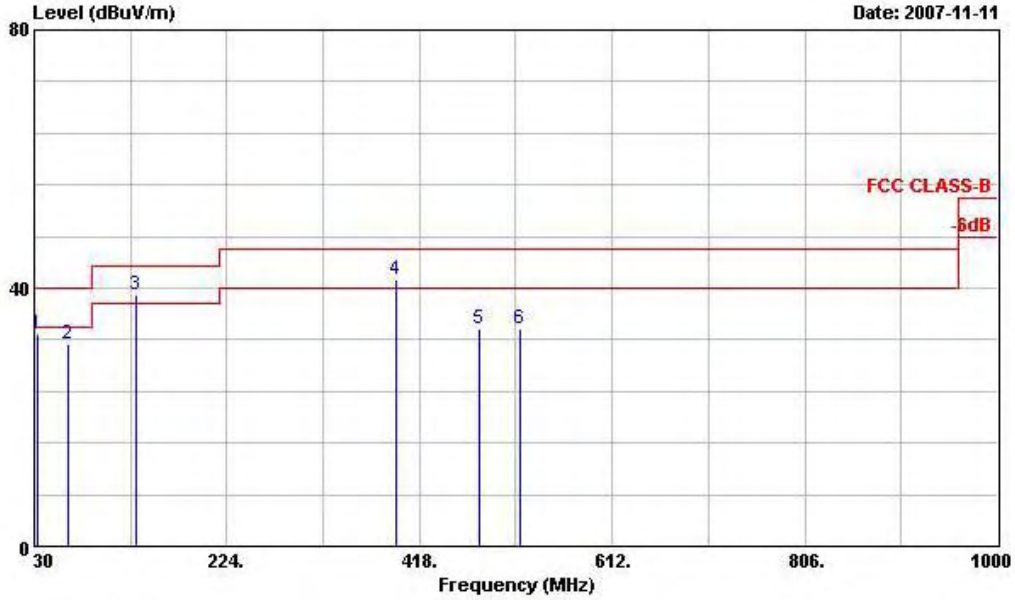
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH62;5310MHz
Data Rate:9

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		1084.000	43.53	-30.47	74.00	50.03	25.46	2.34	34.30	100	0	Peak
2		1334.000	47.18	-26.82	74.00	51.98	26.55	2.60	33.95	100	0	Peak
3		5150.000	53.09	-20.91	74.00	46.05	35.28	6.00	34.24	100	0	Peak
4		5150.000	39.72	-14.28	54.00	32.68	35.28	6.00	34.24	100	5	Average
5	@	5310.000	104.66			97.35	35.48	6.00	34.17	100	0	Peak
6	X	5310.000	76.74			69.43	35.48	6.00	34.17	100	5	Average
7		5350.000	47.69	-6.31	54.00	40.32	35.52	6.00	34.15	100	5	Average
8		5350.000	65.69	-8.31	74.00	58.32	35.52	6.00	34.15	100	0	Peak
9		7790.000	57.46	-16.54	74.00	45.02	39.46	6.67	33.69	100	0	Peak
10		7790.000	45.10	-8.90	54.00	32.66	39.46	6.67	33.69	100	187	Average
11		10626.000	51.92	-22.08	74.00	87.00	-8.45	7.80	34.44	100	0	Peak
12		10626.000	40.14	-13.86	54.00	75.22	-8.45	7.80	34.44	100	175	Average

Remark: #5 and #6 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Polarization : Vertical

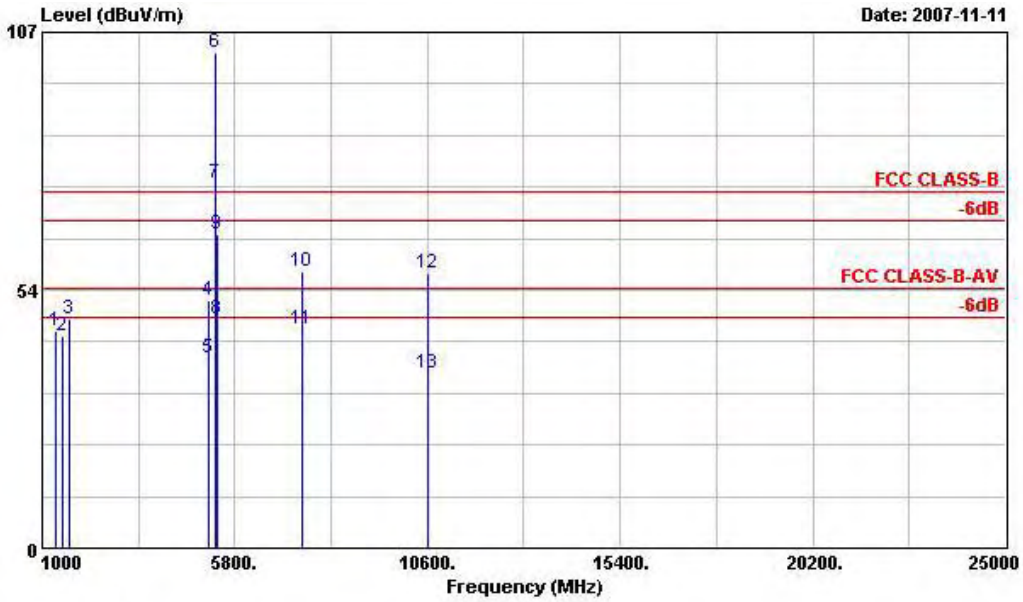
The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH62;5310MHz
Data Rate:9
```

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.970	33.02	-6.98	40.00	44.06	16.33	0.90	28.26	---	---	Peak
2	64.290	31.21	-8.79	40.00	54.05	4.29	1.14	28.27	---	---	Peak
3 !	133.410	38.82	-4.68	43.50	54.20	11.11	1.58	28.07	100	187	Peak
4 !	394.500	41.30	-4.70	46.00	51.42	15.58	2.56	28.26	---	---	Peak
5	478.500	33.62	-12.38	46.00	43.04	16.65	2.77	28.85	---	---	Peak
6	519.800	33.75	-12.25	46.00	42.39	17.49	2.89	29.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH62;5310MHz
Data Rate:9

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1326.000	45.07	-28.93	74.00	49.94	26.48	2.60	33.95	100	0	Peak
2	1500.000	44.02	-29.98	74.00	47.74	27.20	2.79	33.70	100	0	Peak
3	1668.000	47.60	-26.40	74.00	49.86	28.47	2.97	33.70	100	0	Peak
4	5150.000	51.25	-22.75	74.00	44.21	35.28	6.00	34.24	100	0	Peak
5	5150.000	39.26	-14.74	54.00	32.22	35.28	6.00	34.24	112	10	Average
6 @	5310.000	102.86			95.55	35.48	6.00	34.17	100	0	Peak
7 X	5310.000	75.62			68.31	35.48	6.00	34.17	112	10	Average
8	5350.000	47.56	-6.44	54.00	40.19	35.52	6.00	34.15	112	10	Average
9	5350.000	65.15	-8.85	74.00	57.78	35.52	6.00	34.15	100	0	Peak
10	7470.000	57.47	-16.53	74.00	45.26	39.39	6.55	33.74	100	0	Peak
11	7470.000	45.26	-8.74	54.00	33.05	39.39	6.55	33.74	100	245	Average
12	10614.000	56.93	-17.07	74.00	92.02	-8.46	7.80	34.44	100	0	Peak
13	10614.000	36.21	-17.79	54.00	71.30	-8.46	7.80	34.44	100	145	Average

Remark: #6 and #7 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

5.6.4 E.I.R.P. Power

Mode	Frequency (MHz)	Field Strength (dBuV/m)	EIRP (dBm)	Over Limit (dB)	Limit (dBm)
802.11a	5150.00 MHz	61.60 dBuV/m	-35.53	-8.53	-27.00
	5350.00 MHz	56.80 dBuV/m	-40.33	-13.33	-27.00
802.11n(a) BW 20M	5150.00 MHz	64.26 dBuV/m	-32.87	-5.87	-27.00
	5350.00 MHz	62.31 dBuV/m	-34.82	-7.82	-27.00
802.11n(a) BW 40M	5150.00 MHz	67.76 dBuV/m	-29.37	-2.37	-27.00
	5350.00 MHz	65.69 dBuV/m	-31.44	-4.44	-27.00

Remark: EIRP=10*Log({10^[(Field Strength-120)/20]*distance}^2/{30*[10^(Antenna Gain/10)]}/0.001)

5.7 Band Edges Measurement

5.7.1 Measuring Instruments

As described in chapter 6 of this test report.

5.7.2 Test Procedure

1. Set both RBW and VBW of spectrum analyzer to 1MHz with convenient frequency span including 1MHz bandwidth from band edge.
2. The band edges was measured and recorded.

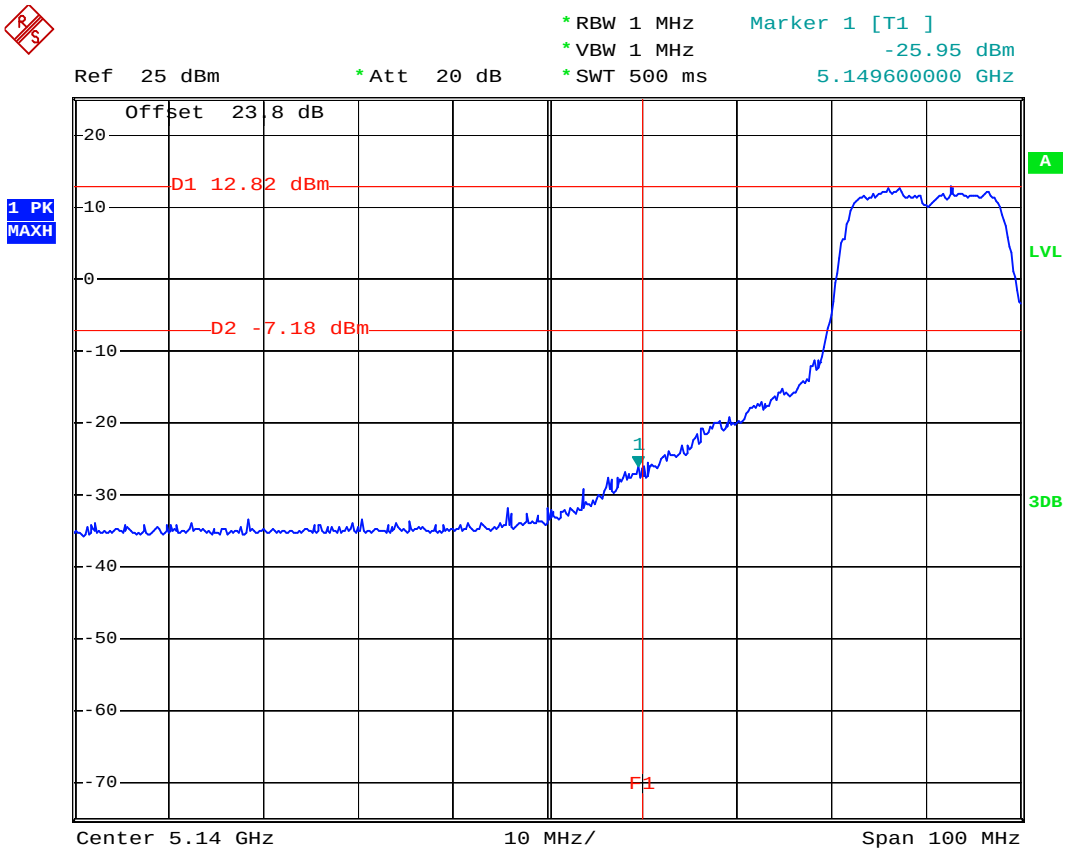
5.7.3 Test Result

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

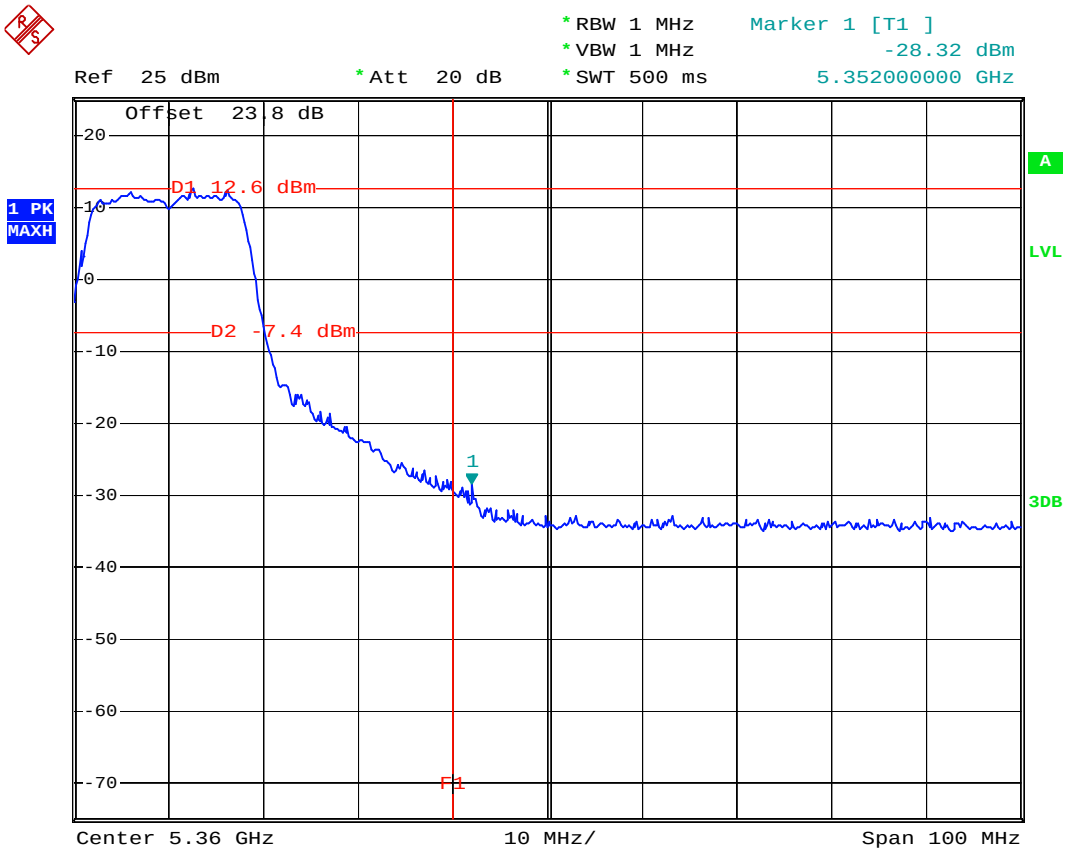
Test Result Mode	Verdict
Test Result for 802.11a band I,II :	PASS

5.7.4 Test Data

Mode 1

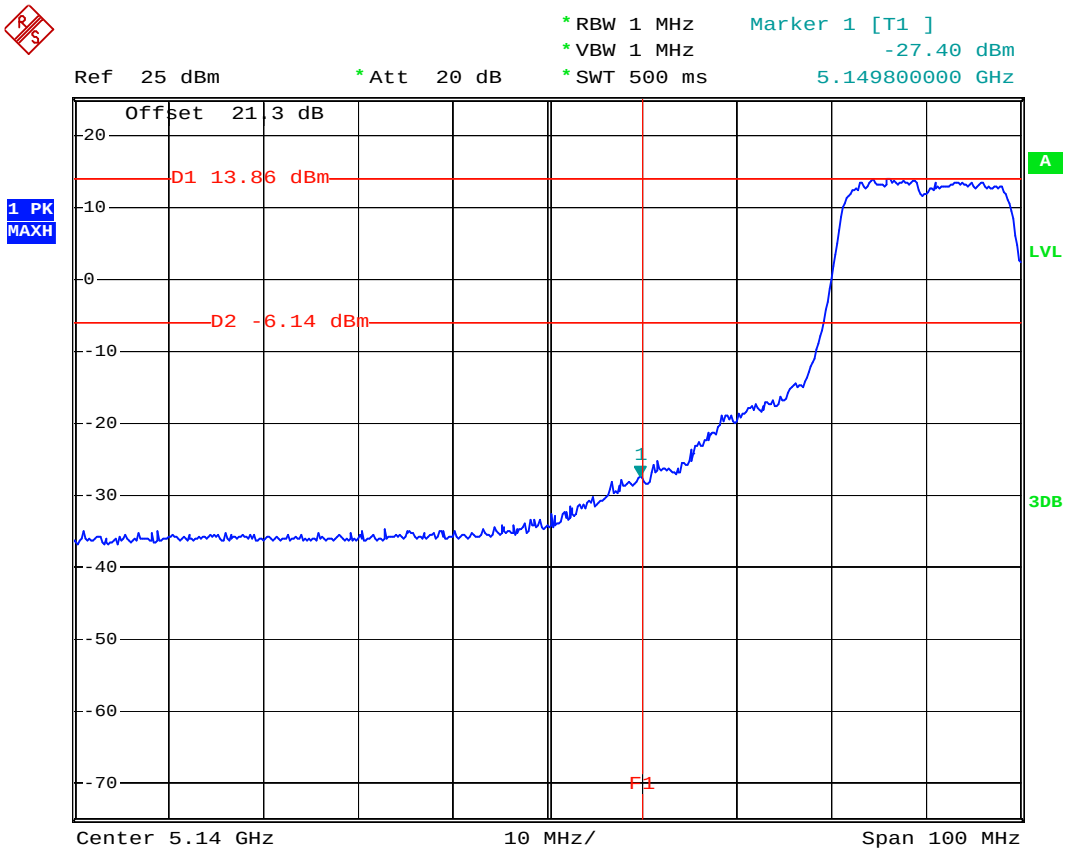


Mode 6



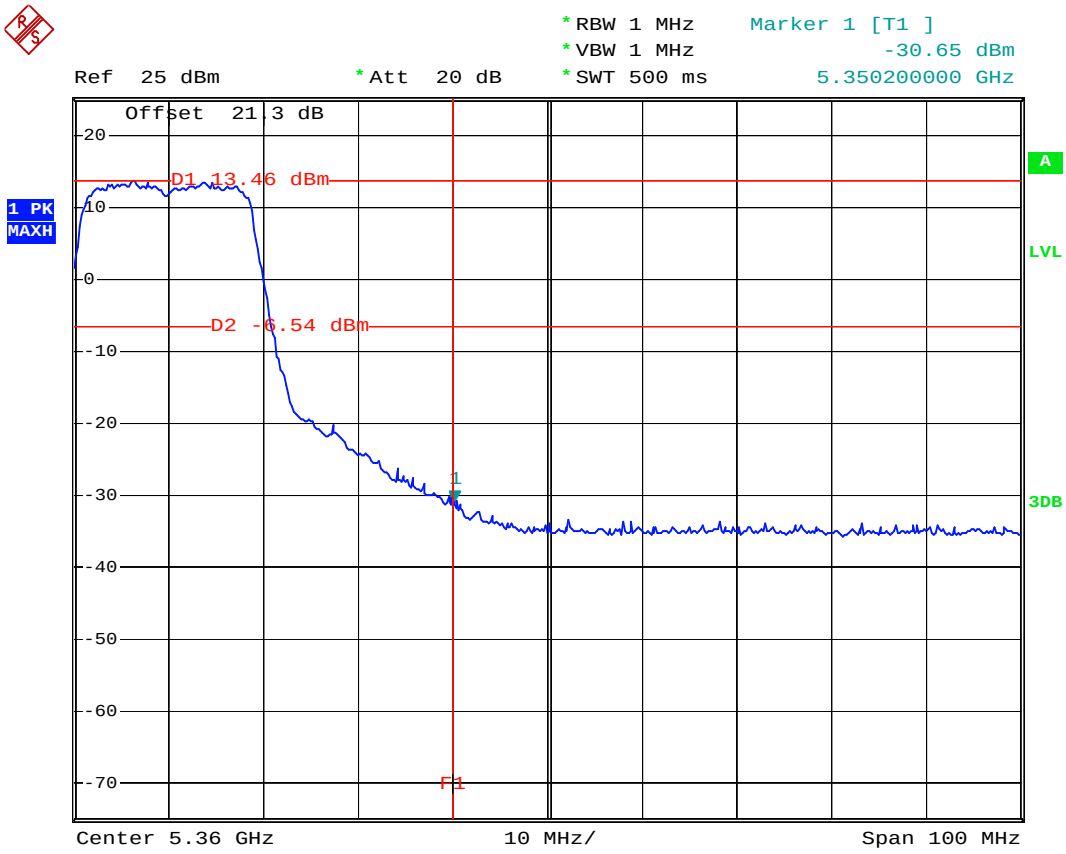
Date: 21.NOV.2007 23:37:34

Mode 7



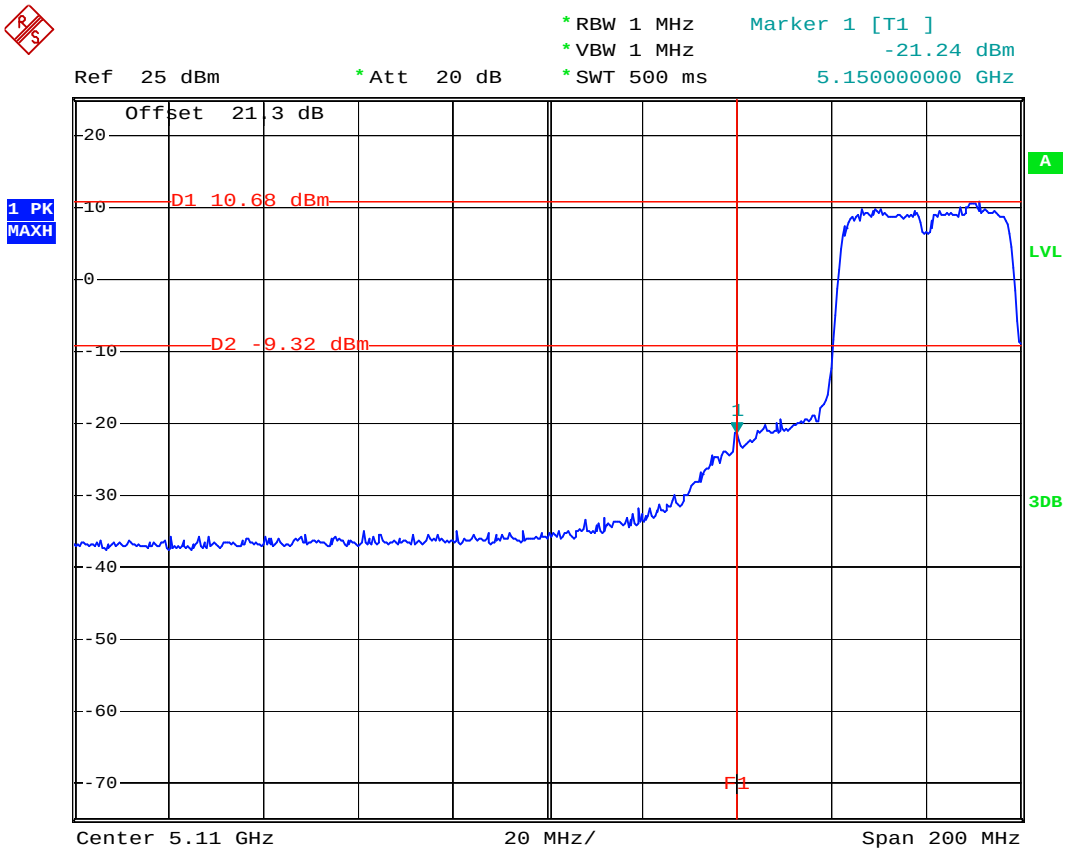
Date: 22.NOV.2007 00:50:58

Mode 12



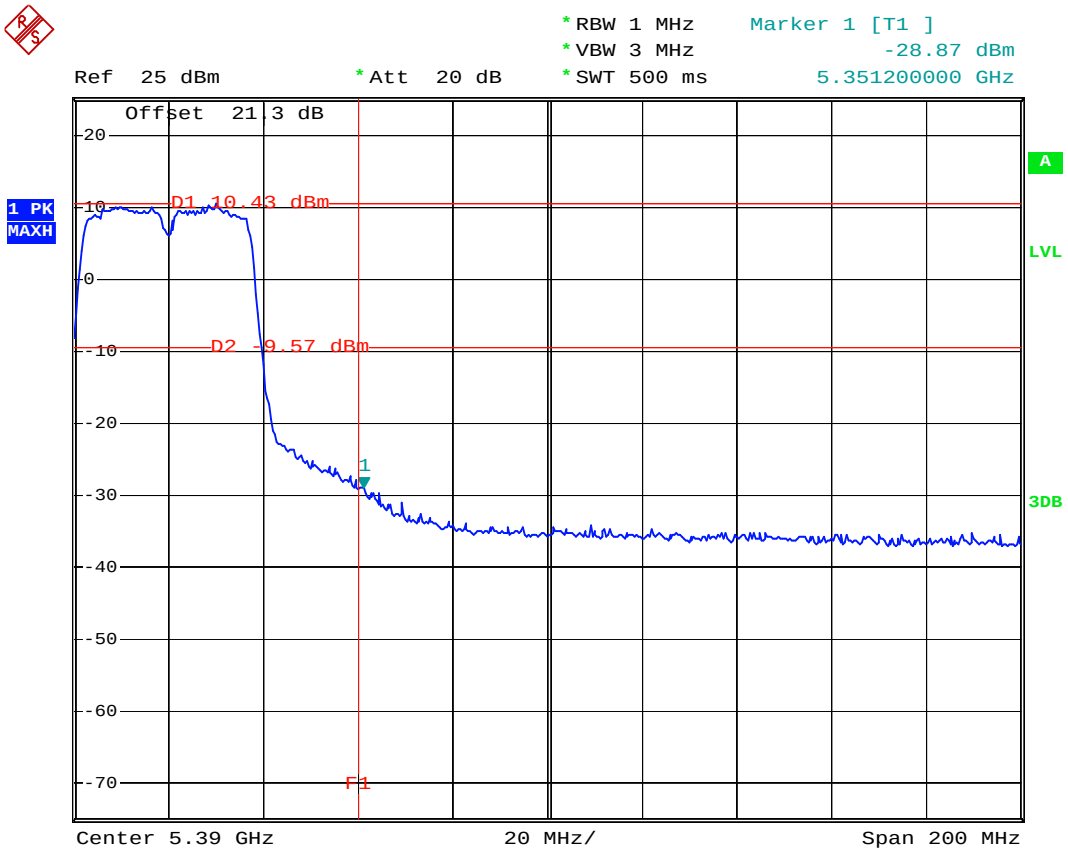
Date: 20.NOV.2007 15:08:04

Mode 13



Date: 22.NOV.2007 01:56:16

Mode 16



Date: 22.NOV.2007 01:04:42

5.8 Peak Excursion Ratio Measurement

5.8.1 Measuring Instruments

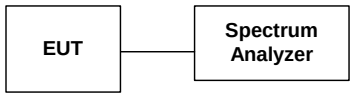
As described in chapter 6 of this test report.

5.8.2 Test Procedure

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to and maintained at 1 MHz. The video bandwidth is set to 3 MHz. Trace A is set peak detector and to Max Hold, then to View. Then the detector is readjusted to sample detector, max hold to run for 60 seconds, and the signal under this measurement condition is captured in Trace B in Accordance with the method 3 of DA-02-2138.

The difference between the traces is investigated. The marker is placed at the frequency which shows the largest difference. The amplitude delta between the traces at this frequency is the peak excursion.

5.8.3 Test Setup Layout



5.8.4 Test Result：

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

➢ **802.11a Normal mode**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
36	5180	-8.00	13	Mode 1
44	5220	-9.12	13	Mode 2
48	5240	-7.08	13	Mode 3
52	5260	-9.10	13	Mode 4
60	5300	-8.18	13	Mode 5
64	5320	-7.78	13	Mode 6

➢ **802.11n(a) BW 20M mode**

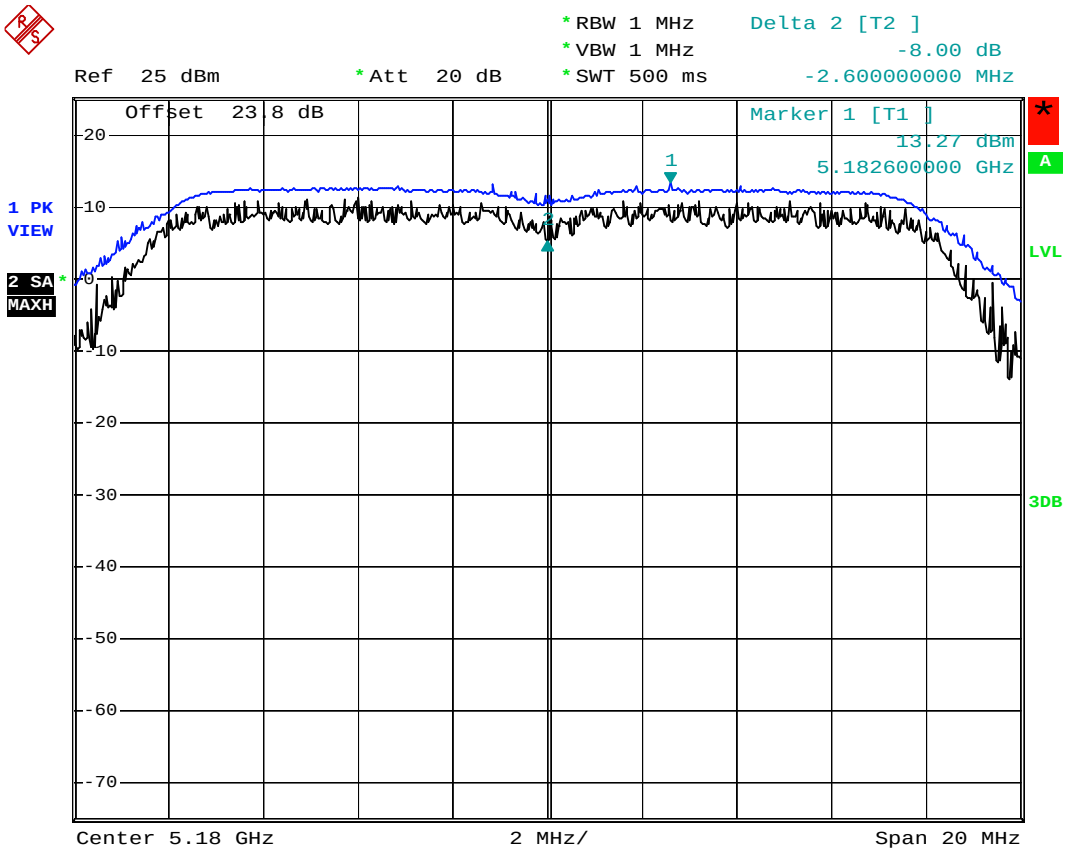
Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
36	5180	-8.30	13	Mode 7
44	5220	-8.70	13	Mode 8
48	5240	-7.42	13	Mode 9
52	5260	-7.87	13	Mode 10
60	5300	-8.74	13	Mode 11
64	5320	-7.11	13	Mode 12

➢ **802.11n(a) BW 40M mode**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
38	5190	-10.52	13	Mode 13
46	5230	-11.95	13	Mode 14
54	5270	-10.24	13	Mode 15
62	5310	-10.84	13	Mode 16

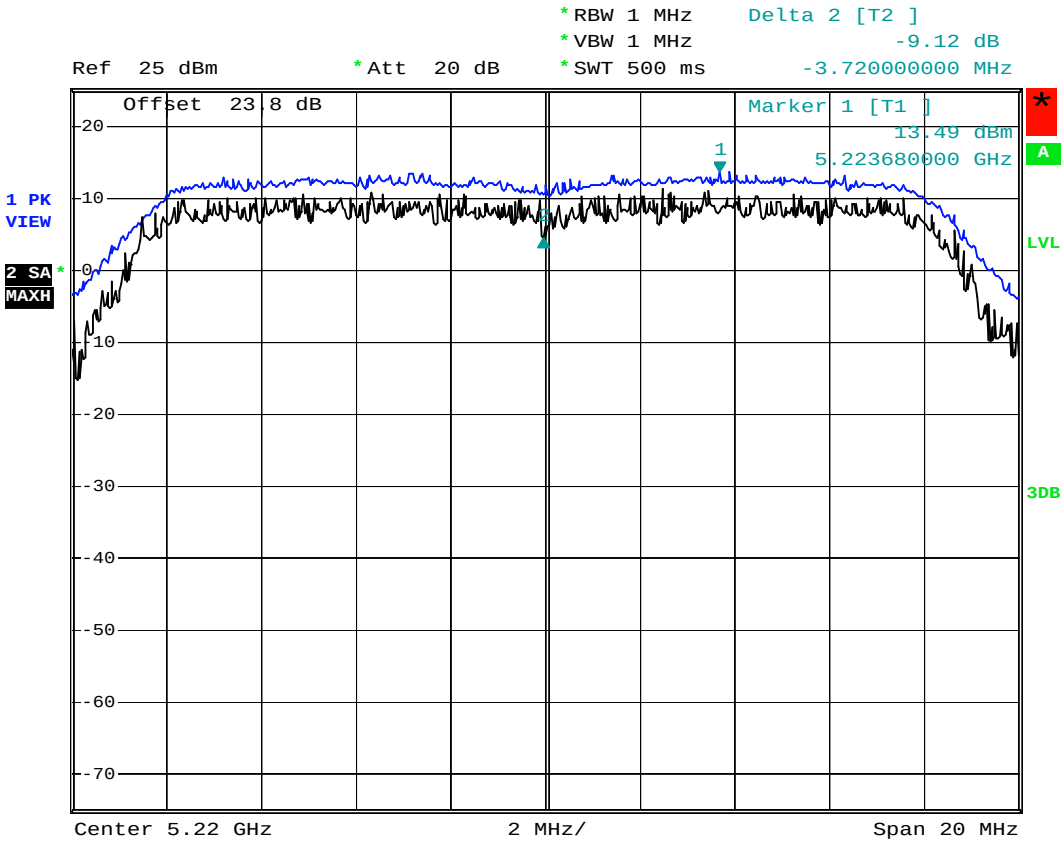
5.8.5 Test Data

Mode 1

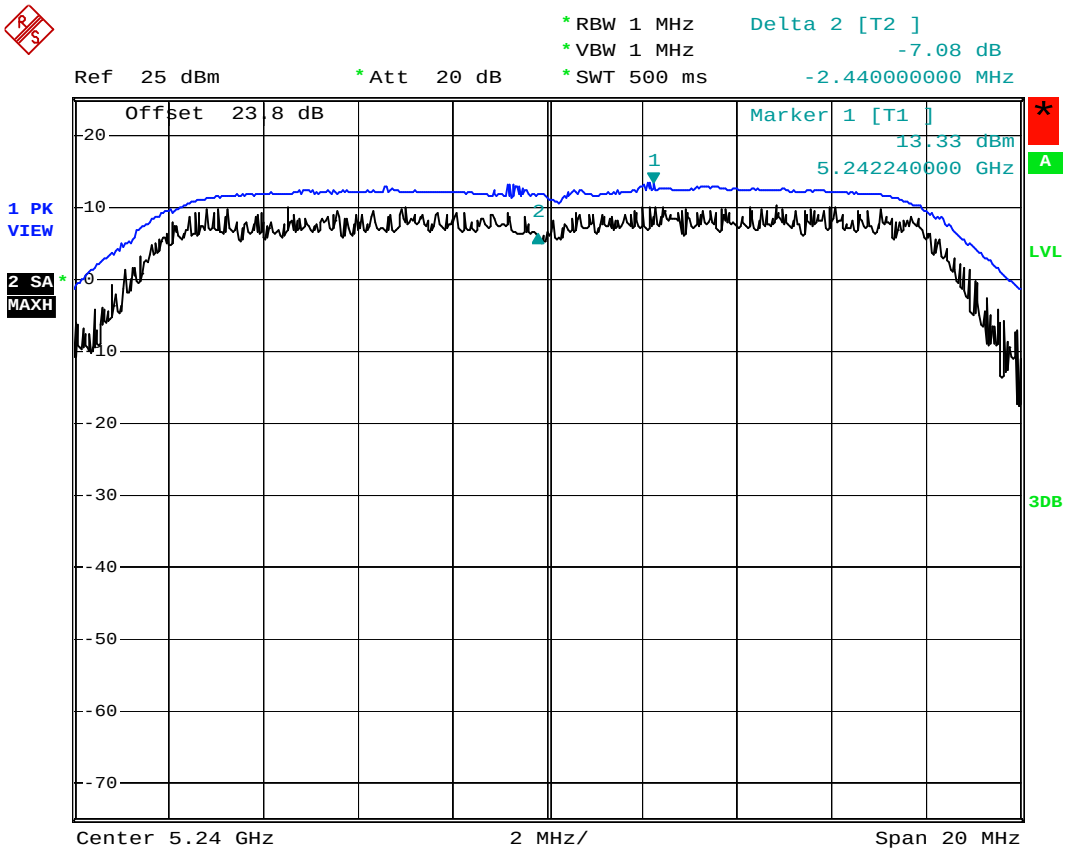


Date: 9.NOV.2007 16:08:41

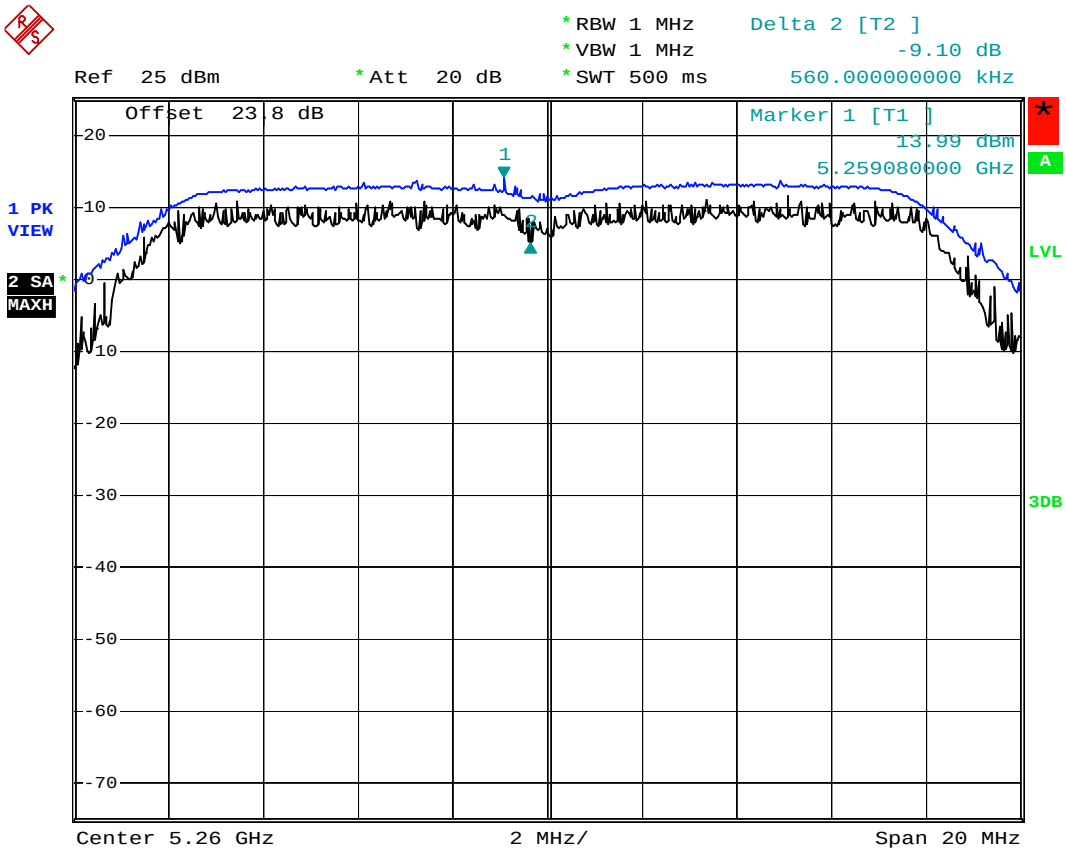
Mode 2


*RBW 1 MHz
*VBW 1 MHz
*SWT 500 ms
Delta 2 [T2]
-9.12 dB
-3.720000000 MHz
Ref 25 dBm
*Att 20 dB
Offset 23.8 dB
Marker 1 [T1]
13.49 dBm
5.223680000 GHz
1 PK
VIEW
2 SA
MAXH
LVL
3DB
Center 5.22 GHz
2 MHz/
Span 20 MHz
Date: 5.JAN.2008 00:58:08

Mode 3

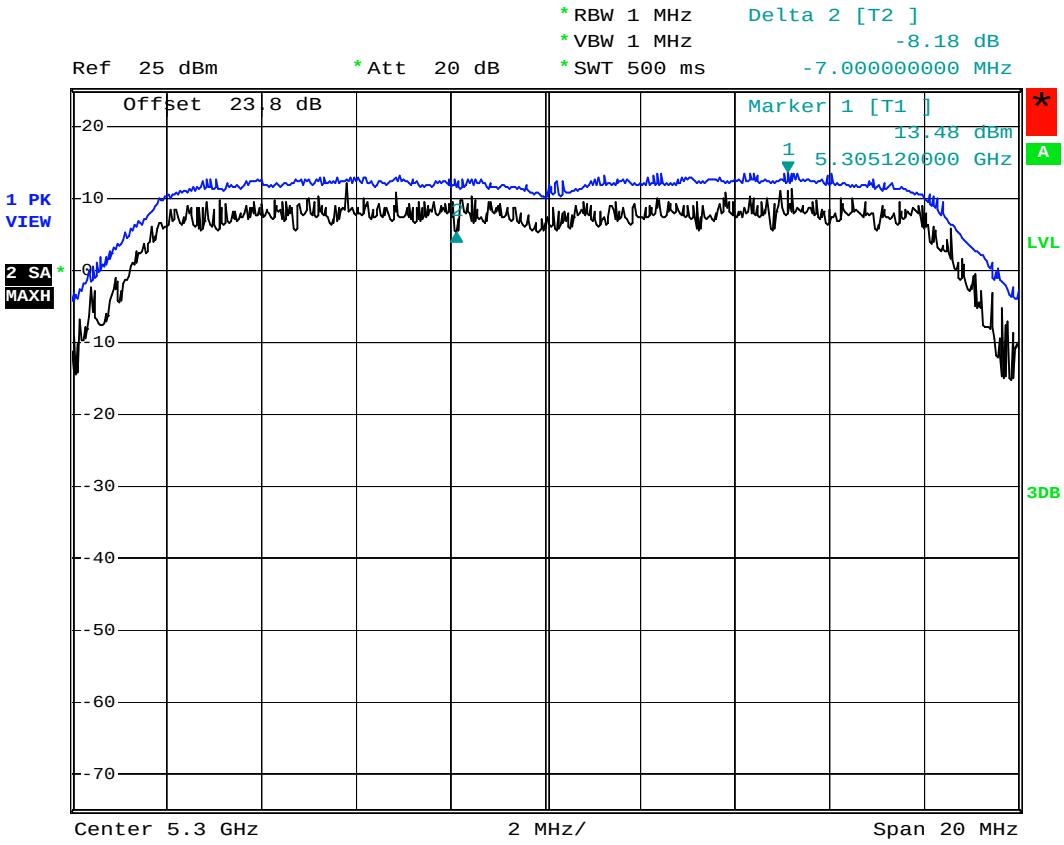

RBW 1 MHz
VBW 1 MHz
SWT 500 ms
Delta 2 [T2]
-7.08 dB
-2.440000000 MHz
Ref 25 dBm
Att 20 dB
Offset 23.8 dB
Marker 1 [T1]
13.33 dBm
5.242240000 GHz
1 PK
VIEW
2 SA
MAXH
LVL
3DB
Center 5.24 GHz
2 MHz/
Span 20 MHz
Date: 9.NOV.2007 16:06:43

Mode 4



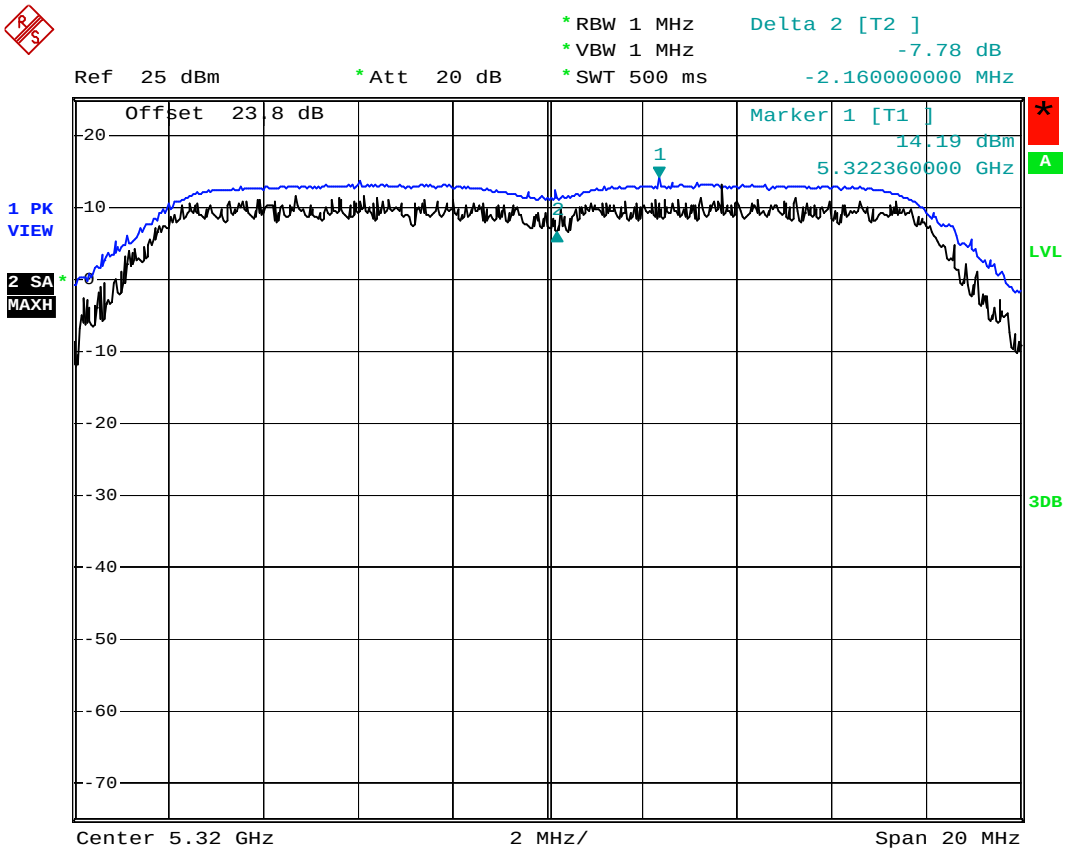
Date: 9.NOV.2007 16:04:09

Mode 5



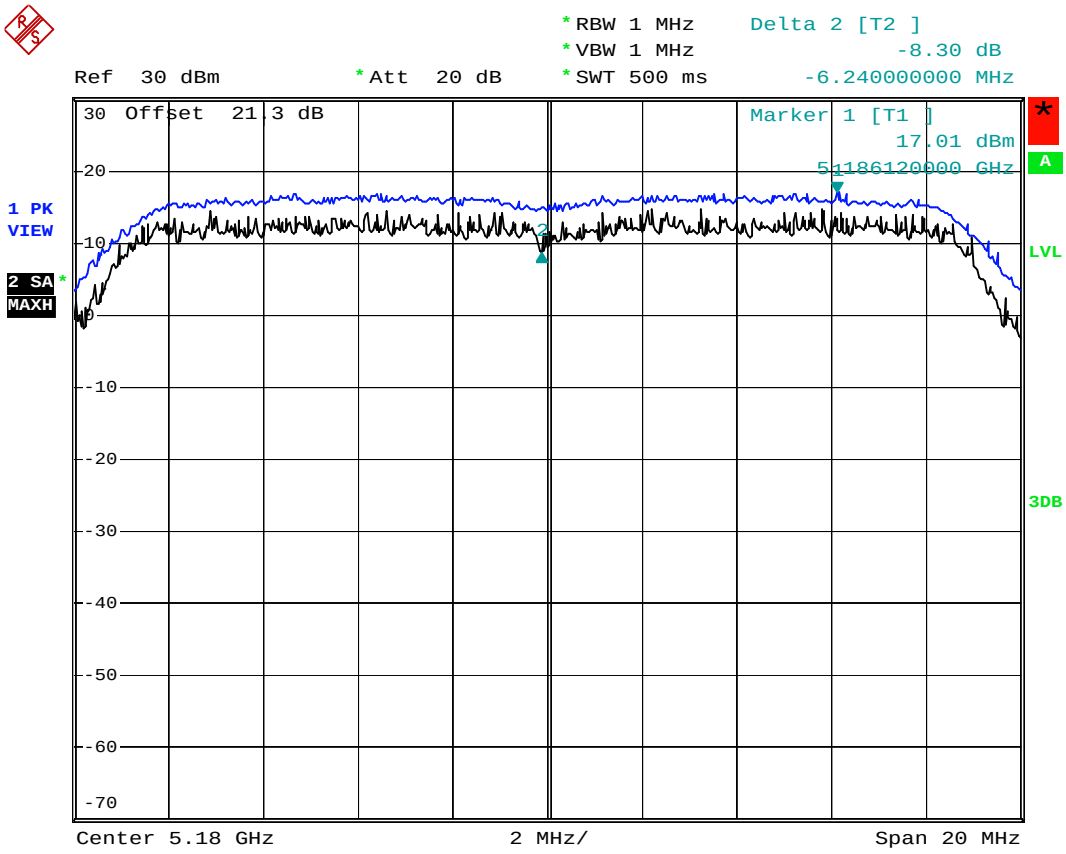
Date: 5.JAN.2008 00:52:27

Mode 6



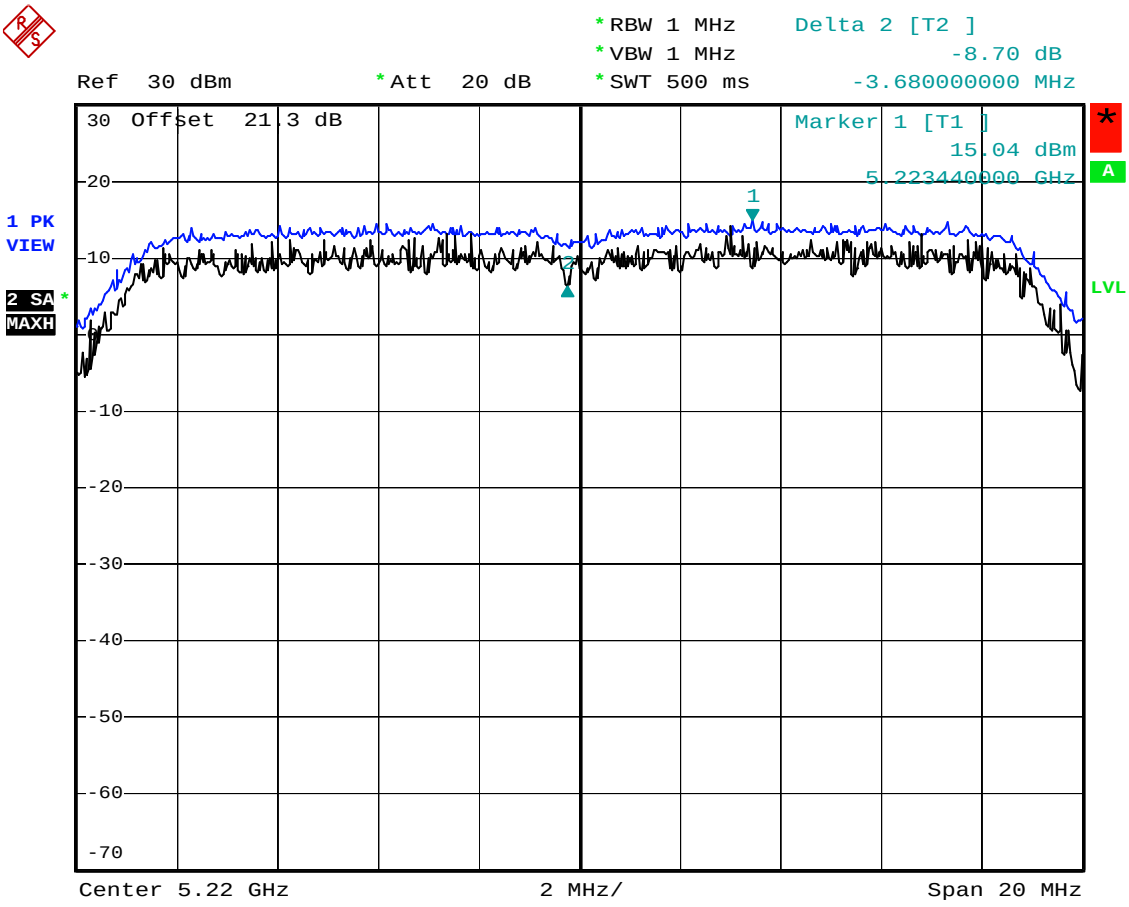
Date: 9.NOV.2007 16:02:47

Mode 7



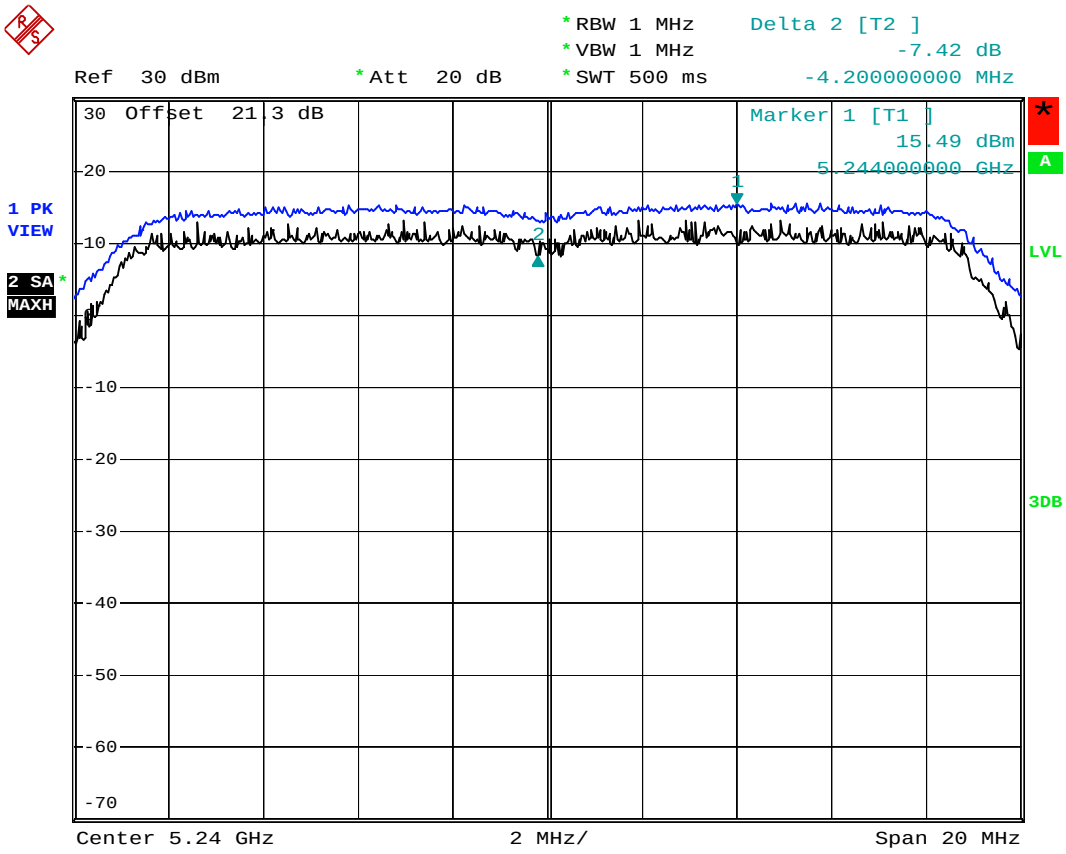
Date: 8.NOV.2007 16:39:24

Mode 8



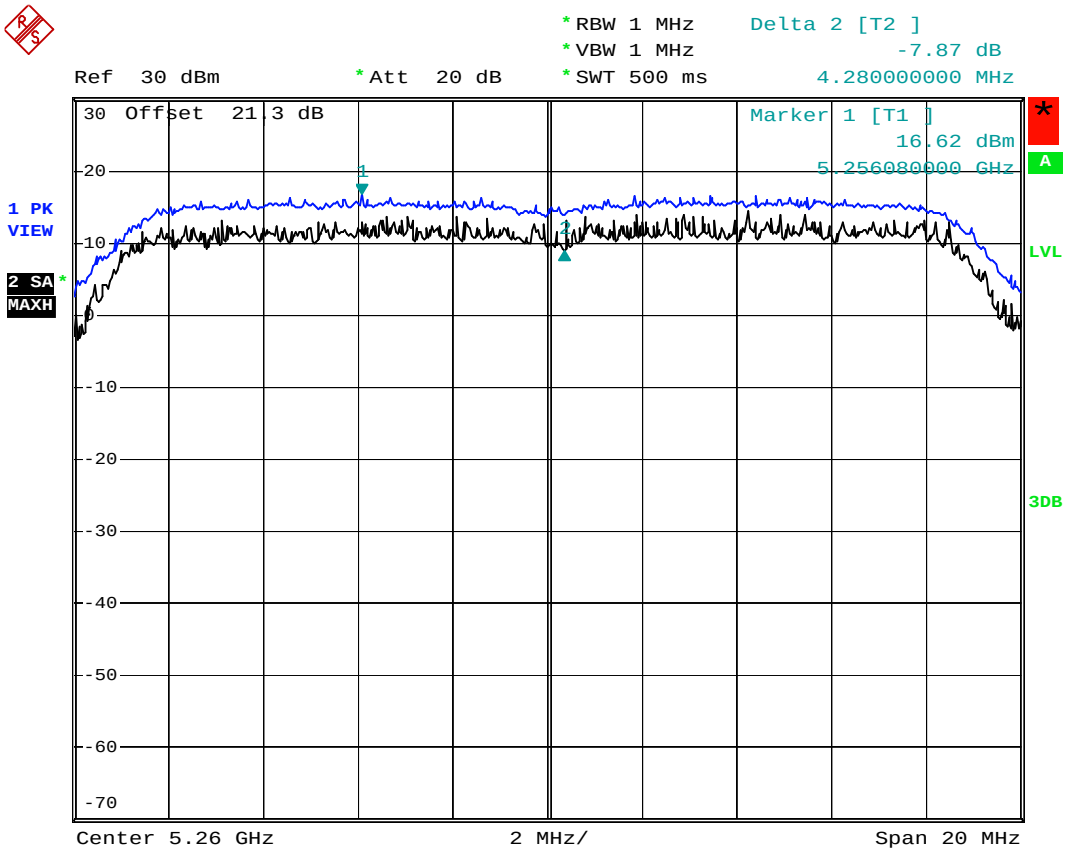
Date: 7.JAN.2008 18:19:13

Mode 9



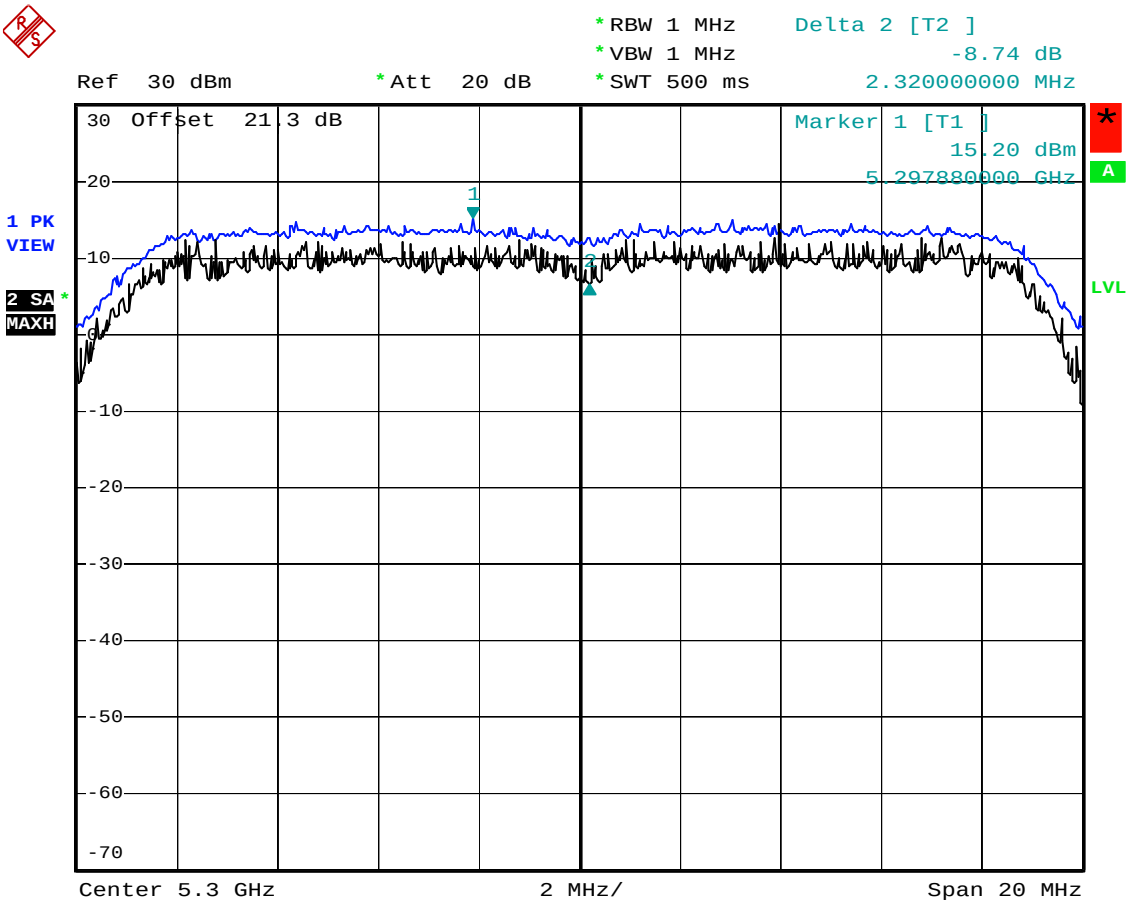
Date: 8.NOV.2007 16:37:35

Mode 10



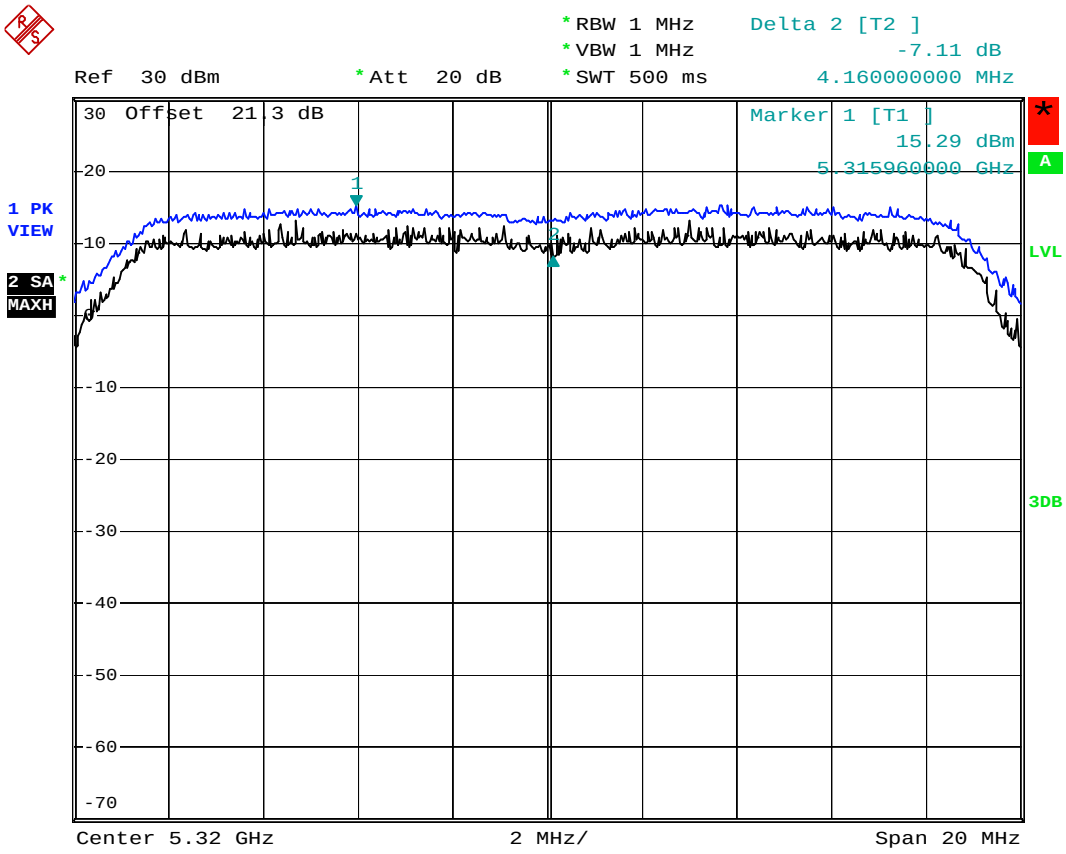
Date: 8.NOV.2007 16:41:01

Mode 11



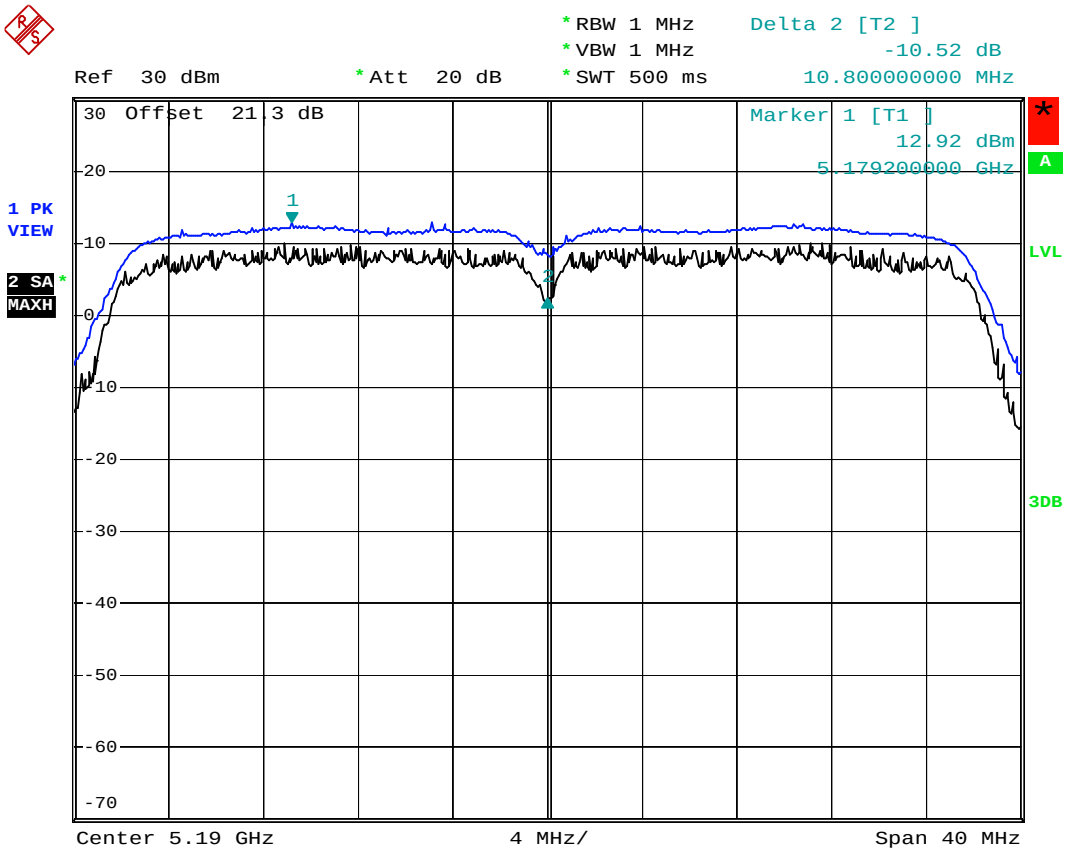
Date: 7.JAN.2008 18:12:22

Mode 12



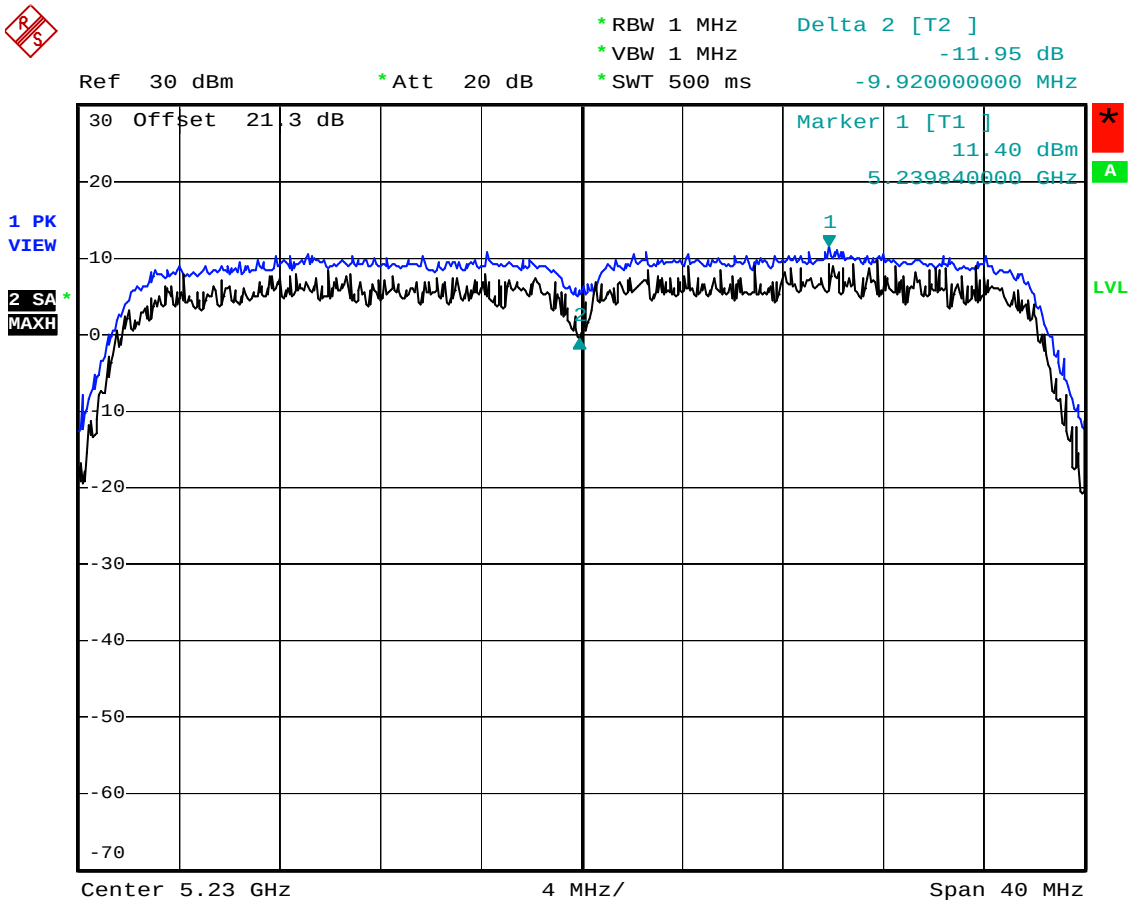
Date: 8.NOV.2007 16:43:14

Mode 13



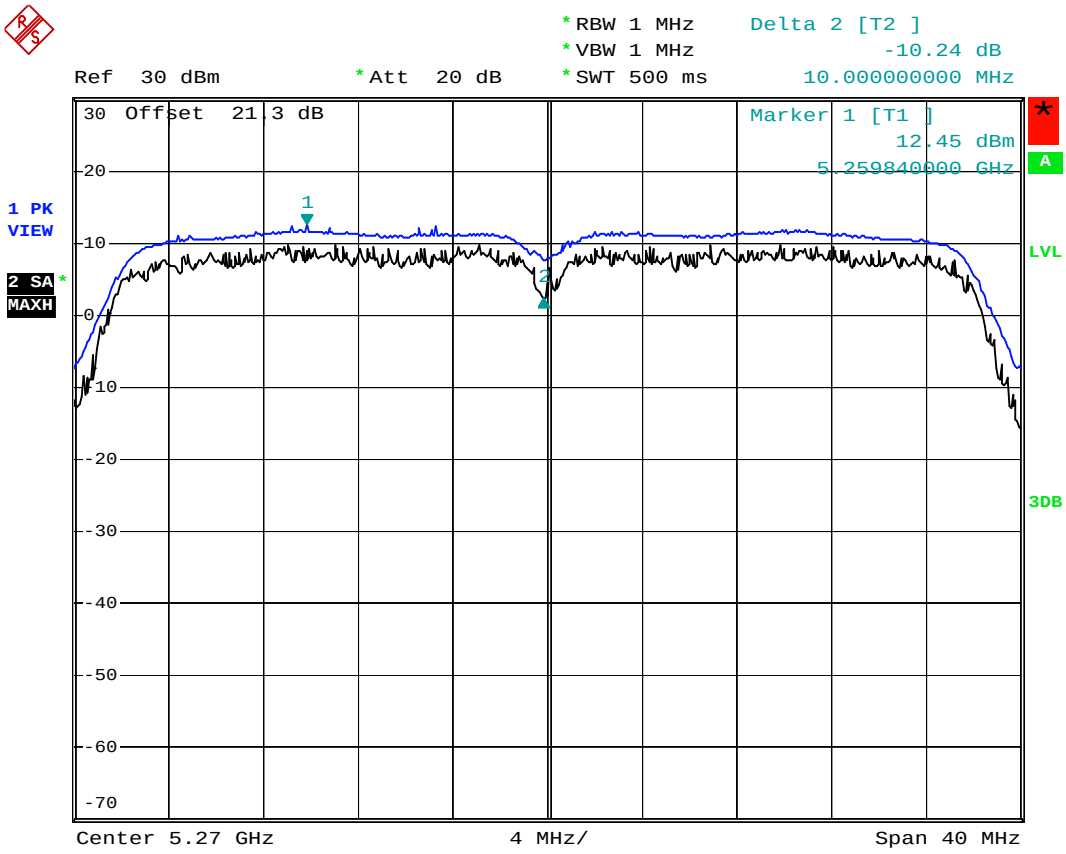
Date: 8.NOV.2007 16:45:40

Mode 14

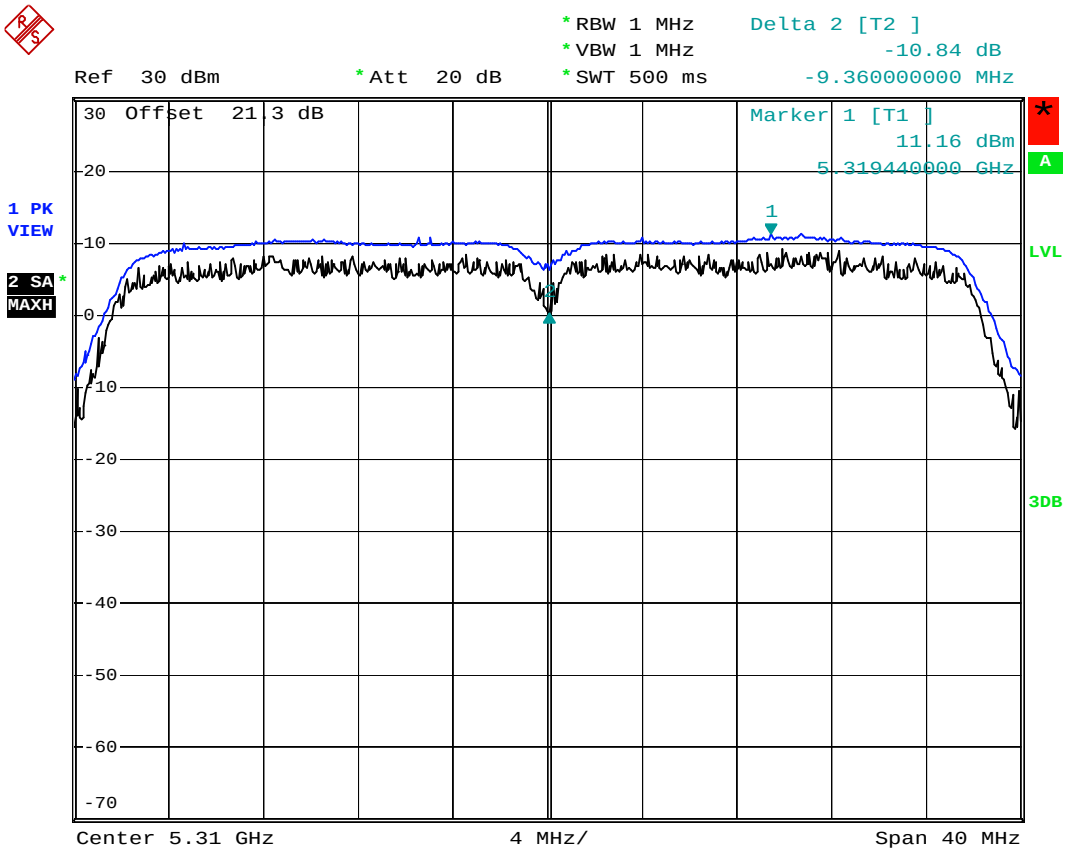


Date: 7.JAN.2008 18:25:58

Mode 15


*RBW 1 MHz
*VBW 1 MHz
*SWT 500 ms
Delta 2 [T2]
-10.24 dB
10.000000000 MHz
Ref 30 dBm
*Att 20 dB
30 Offset 21.3 dB
Marker 1 [T1]
12.45 dBm
5.259840000 GHz
1 PK
VIEW
2 SA
MAXH
LVL
3DB
Center 5.27 GHz
4 MHz/
Span 40 MHz
Date: 8.NOV.2007 16:47:49

Mode 16


*RBW 1 MHz
*VBW 1 MHz
*SWT 500 ms
Delta 2 [T2]
-10.84 dB
-9.360000000 MHz
Ref 30 dBm
*Att 20 dB
30 Offset 21.3 dB
Marker 1 [T1]
11.16 dBm
5.319440000 GHz
1 PK
VIEW
2 SA
MAXH
LVL
3DB
Center 5.31 GHz
4 MHz/
Span 40 MHz
Date: 8.NOV.2007 16:49:52

5.9 Frequency Stability

To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

The EUT was operated at the maximum output power, and connected to the spectrum analyzer which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

➢ **802.11a Normal mode**

Frequency (MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5180	5171.68	5188.28	5179.98	-0.02
5220	5211.64	5228.32	5219.98	-0.02
5240	5231.68	5248.32	5240.00	0.00
5260	5251.68	5268.32	5260.00	0.00
5300	5291.68	5308.28	5299.98	-0.02
5320	5311.68	5328.28	5319.98	-0.02

➢ **802.11n(a) BW 20M mode**

Frequency (MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5180	5171.08	5188.92	5180.00	0.00
5220	5211.08	5228.92	5220.00	0.00
5240	5231.08	5248.92	5240.00	0.00
5260	5251.08	5268.92	5260.00	0.00
5300	5291.08	5308.96	5300.02	0.02
5320	5311.08	5328.92	5320.00	0.00

➢ **802.11n(a) BW 40M mode**

Frequency (MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5190	5171.76	5208.24	5190.00	0.00
5230	5211.68	5248.24	5229.96	-0.04
5270	5251.68	5288.24	5269.96	-0.04
5310	5291.76	5328.32	5310.04	0.04

5.10 Automatically discontinue transmission

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving .The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission .

5.11 Antenna Requirements

The EUT meets antenna requirement of FCC for the following reasons.

5.11.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.11.2 Antenna Connected Construction

The antenna used in this product is PIFA antenna for WLAN without connector and it is considered to meet antenna requirement of FCC.

5 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
3m Semi Anechoic	TDK	SAC-3M	03CH04-HY	30 MHz - 1 GHz 3m	Oct. 29, 2007	Oct. 28, 2008	Radiation (03CH04-HY)
Amplifier	HP	87405A	3950M00135	10MHz - 3 GHz	Mar. 02, 2007	Mar. 01, 2008	Radiation (03CH04-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz – 40GHz	Sep. 27, 2007	Sep. 26, 2008	Radiation (03CH04-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2724	30 MHz - 1 GHz	Aug. 13, 2007	Aug. 12 2008	Radiation (03CH04-HY)
Turn Table	HD	Deis HD 2000	420/610	0 - 360 degree	N/A	N/A	Radiation (03CH04-HY)
Antenna Mast	Chaintek	3000	N/A	1 m - 4 m	N/A	N/A	Radiation (03CH04-HY)
RF Cable-R03m	Suhner Switzerland + RFIDEN	RG223/U +RG8/U	CB024	30 MHz - 1 GHz	Sep. 20, 2007	Sep. 19, 2008	Radiation (03CH04-HY)
Isolation Transformer	Erika FiedLer OHG	D-65396 Walluf	N/A	45 MHz – 2.15 GHz 30dB	N/A	N/A	Radiation (03CH04-HY)

6 Uncertainty of Test Site

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
Combined standard uncertainty Uc(y)	**1.13**		
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	**2.26**		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
Combined standard uncertainty Uc(y)	**1.27**		
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	**2.54**		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	Ci	$Ci*u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR Γ1= 0.197 Antenna VSWR Γ2= 0.194 Uncertainty=20log(1-Γ1*Γ2*Γ3)	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	**2.36**				
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	**4.72**				

The measured result is ：y dBuV ± U dB

for a level of confidence of approximately 95%，(k= 2)

Appendix A. Photographs of EUT

Please refer to Sporton report number EP852118 as below.