



**FCC PART 15  
TEST REPORT  
No. 2013WLN0713**

**for**

**TCT Mobile Limited**

**HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Quin bands**

**Mobile Phone**

**Model name: VIPER LTE**

**Marketing Name: ONE TOUCH 7030Y**

**With**

**FCC ID: RAD357**

**Hardware Version: PIO**

**Software Version: VA33**

**Issued Date: 2013-08-16**



**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

**Test Laboratory:**

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China, 100191

Tel: +86(0)10-62304633-2561, Fax: +86(0)10-62304633-2504 Email:welcome@emcite.com. [www.emcite.com](http://www.emcite.com)

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## 1. TEST LATORATORY


### 1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT  
Address: No 52 Hua Yuanbei Road, Haidian District, Beijing, P.R.China  
Postal Code: 100191  
Telephone: 008610623046332561  
Fax: 008610623046332504

### 1.2. Project data

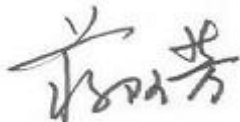
Testing Start Date: 2013-07-04  
Testing End Date: 2013-08-16

### 1.3. Signature



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Xu Zhongfei  
(Prepared this test report)



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Jiang Afang  
(Reviewed this test report)



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Xiao Li  
Deputy Director of the laboratory  
(Approved this test report)

## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: TCT Mobile Limited  
Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,  
Pudong Area Shanghai, P.R. China. 201203  
Country: China  
Contact Gong Zhizhou  
Email zhizhou.gong @jrdcom.com  
Telephone: 0086-21-61460890  
Fax: 0086-21-61460602

### **2.2. Manufacturer Information**

Company Name: TCT Mobile Limited  
Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,  
Pudong Area Shanghai, P.R. China. 201203  
Country: China  
Contact Gong Zhizhou  
Email zhizhou.gong @jrdcom.com  
Telephone: 0086-21-61460890  
Fax: 0086-21-61460602

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

##### **3.1. About EUT**

Description	HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Quin bands Mobile Phone
Model name	VIPER LTE
Marketing name	ONE TOUCH 7030Y
FCC ID	RAD357
WLAN Frequency Range	ISM Bands: 5150MHz~5250MHz
Type of modulation	OFDM
Number of Channels	4
Antenna	Integral Antenna
MAX Conducted Power	18.62dBm(OFDM)
GPRS Class	Class 10
GPRS operation mode	Class B
Extreme Temperature	-20/+55°C
Normal Voltage	3.9V

##### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	013580000100491	PIO	VA33
EUT2	013580000100400	PIO	VA33

\*EUT ID: is used to identify the test sample in the lab internally.

##### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>	<b>SN</b>
AE1	Battery	TLi022A1	/
AE2	Charger	CBA3000AG0C2	/

\*AE ID: is used to identify the test sample in the lab internally.

##### **3.4. General Description**

Equipment Under Test (EUT) is a model of HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Quin bands Mobile Phone with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

Normal Accessory setting:

1. A microSD card was being installed in the device during the test;
2. Fully charged battery should be used during the test.

#### 4. REFERENCE DOCUMENTS

##### 4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

##### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	Oct, 2010
UNII: KDB 789033	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2011

#### 5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Fully-anechoic chamber.

#### 6. SUMMARY OF TEST RESULTS

##### 6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407	/	<b>P</b>
Power Spectral Density	15.407	/	<b>P</b>
Occupied 26dB Bandwidth	15.407	/	<b>P</b>
Band edge compliance	15.407	/	<b>P</b>
Transmitter spurious emissions radiated	15.407	/	<b>P</b>
Receiver spurious emissions radiated	15.407	/	<b>P</b>
Spurious emissions radiated < 30 MHz	15.407	/	<b>P</b>
Spurious emissions conducted < 30 MHz	15.407	/	<b>P</b>

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard



## 6.2. Statements

TMC has evaluated the test cases requested by the client/manufacture as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

## 6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.9V (By battery)
Humidity	44%

## 7. TEST EQUIPMENTS UTILIZED

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2014-07-08
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-08-12
4	Shielding Room	S81	/	ETS-Lindgren	/

### Radiated emission test system

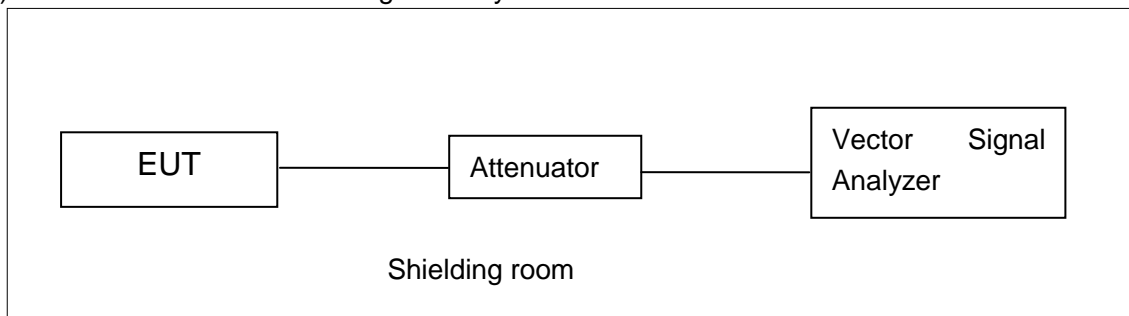
No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2014-08-11
2	BiLog Antenna	3142B	9908-1403	EMCO	2014-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2014-12-25
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2014-06-30
5	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/

## ANNEX A: MEASUREMENT RESULTS

### A.1. Measurement Method

#### A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

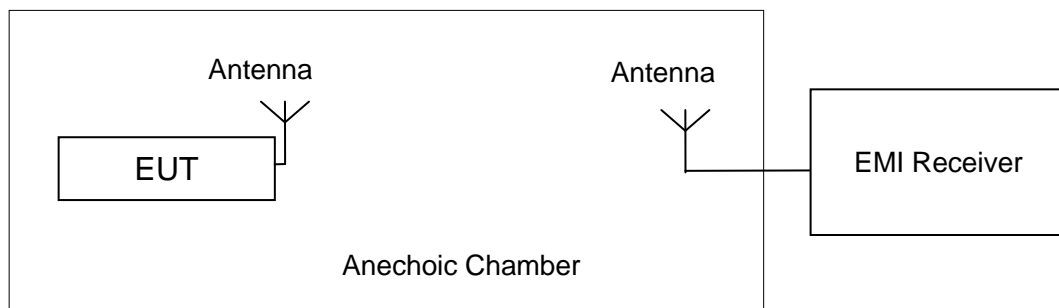


#### A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to KDB 789033

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

## A.2. Maximum Peak Output Power

### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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The measurement method SA-1 is made according to KDB 789033

### A.2.1. Maximum Peak Output Power-conducted

#### Measurement Results:

#### 802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5180MHz (Ch36)	5200MHz (Ch40)	5240MHz (Ch48)
802.11a	6	18.39	/	/
	9	18.33	/	/
	12	18.27	/	/
	18	18.23	/	/
	24	18.58	/	/
	36	18.60	/	/
	48	18.62	18.65	18.15
	54	18.56	/	/

The data rate 48Mbps is selected as worse condition, and the following cases are performed with this condition.

#### 802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5180MHz (Ch36)	5200MHz (Ch40)	5240MHz (Ch48)
802.11n (20MHz)	MCS0	17.39	/	/
	MCS1	17.30	/	/
	MCS2	17.20	/	/
	MCS3	17.70	/	/
	MCS4	17.64	/	/
	MCS5	17.74	17.30	17.23
	MCS6	17.70	/	/
	MCS7	17.73	/	/

The data rate MCS5 is selected as worse condition, and the following cases are performed with this condition.

**802.11n-HT40 mode**

Mode	Data Rate (Index)	Test Result (dBm)	
		5190MHz (Ch38)	5230MHz (Ch46)
802.11n (40MHz)	MCS0	17.56	/
	MCS1	17.42	/
	MCS2	17.35	/
	MCS3	17.82	/
	MCS4	17.74	/
	MCS5	17.94	18.10
	MCS6	17.85	/
	MCS7	17.83	/

The data rate MCS5 is selected as worse condition, and the following cases are performed with this condition.

**A.2.2. Maximum Average Output Power-conducted**

**Measurement Limit and Method:**

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	17dBm or 4+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurement is made according to KDB 789033

**802.11a mode**

Mode	Test Result (dBm)		
	5180MHz (Ch36)	5200MHz (Ch40)	5240MHz(Ch48)
802.11a	13.72	13.06	12.56

**802.11n-HT20 mode**

Mode	Test Result (dBm)		
	5180MHz (Ch36)	5200MHz (Ch40)	5240MHz(Ch48)
802.11n (20MHz)	12.21	11.87	11.42

**802.11n-HT40 mode**

Mode	Test Result (dBm)	
	5190MHz (Ch38)	5230MHz(Ch46)
802.11n (40MHz)	12.58	11.93

**Conclusion: PASS**

### A.3. Peak Power Spectral Density (conducted)

**Measurement Limit:**

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	4

The output power measurement method SA-1 is made according to KDB 789033

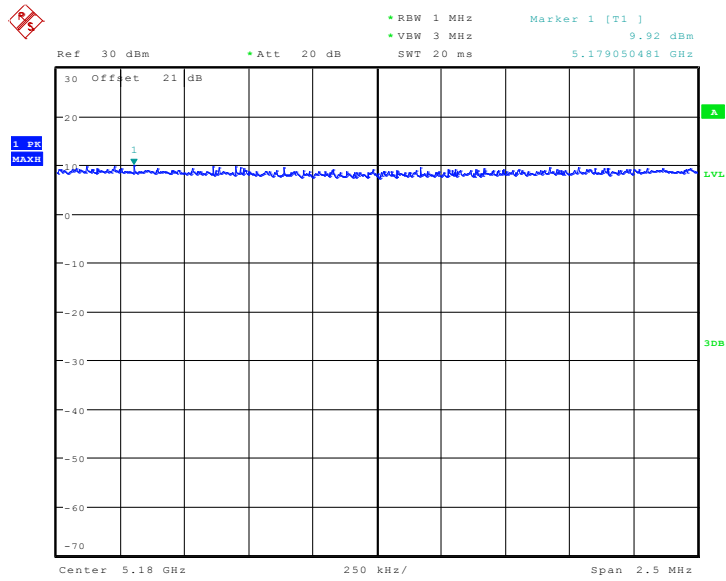
**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
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**Measurement Results:**

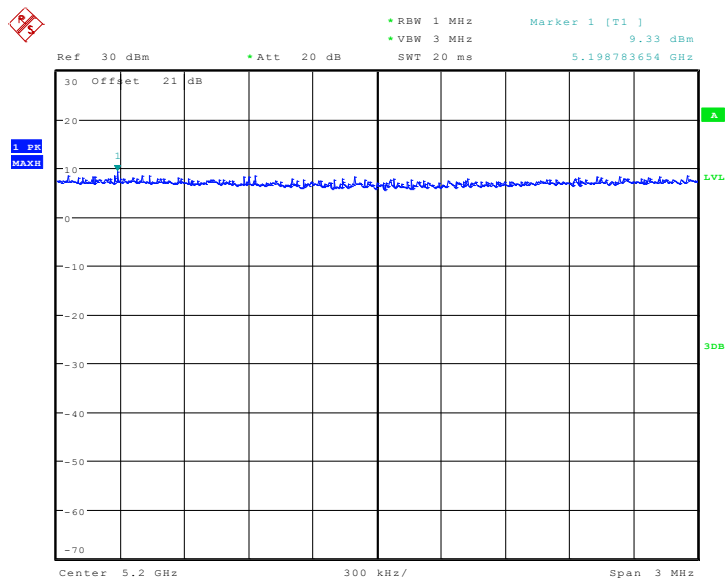
Mode	Channel	Power Spectral Density (dBm/MHz)		Conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.1	-5.28	P
	5200 MHz	Fig.2	-5.87	P
	5240 MHz	Fig.3	-5.54	P
802.11n HT20	5180 MHz	Fig.4	-6.73	P
	5200 MHz	Fig.5	-7.58	P
	5240 MHz	Fig.6	-7.30	P
802.11n HT40	5190 MHz	Fig.7	-9.15	P
	5230 MHz	Fig.8	-9.76	P

**Conclusion: PASS**



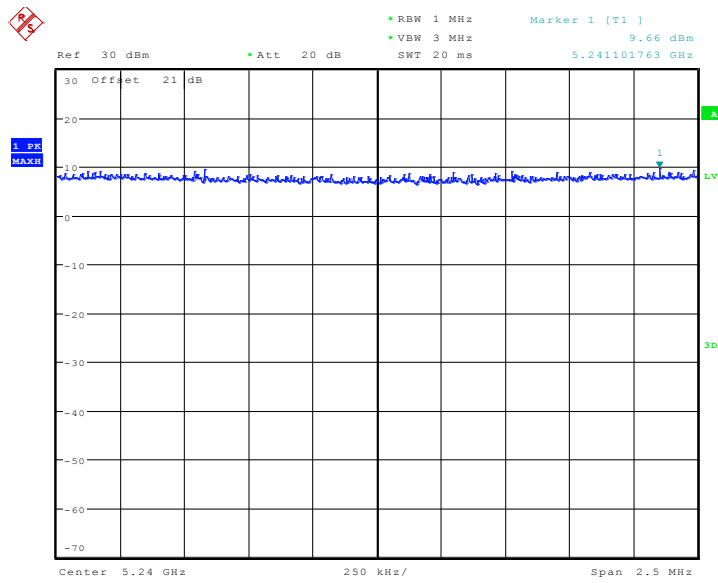
Date: 8.JUL.2013 14:52:40

**Fig. 1 Power Spectral Density (802.11a, Ch 36)**



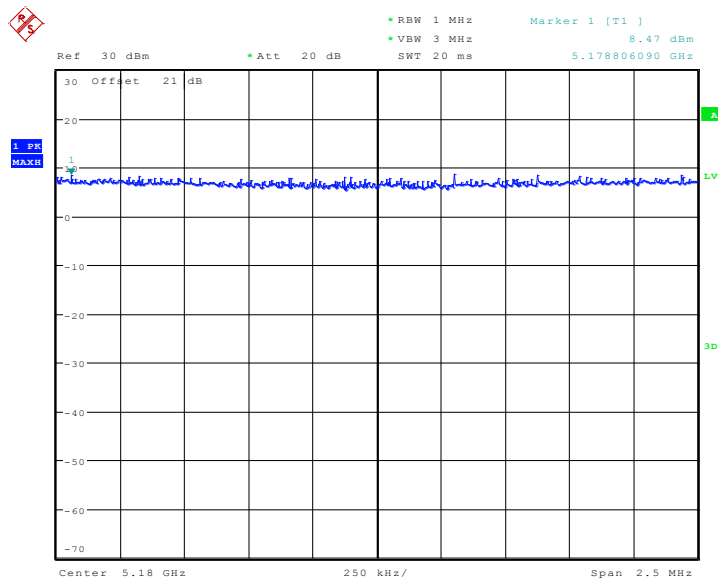
Date: 13.AUG.2013 17:10:55

**Fig. 2 Power Spectral Density (802.11a, Ch 40)**



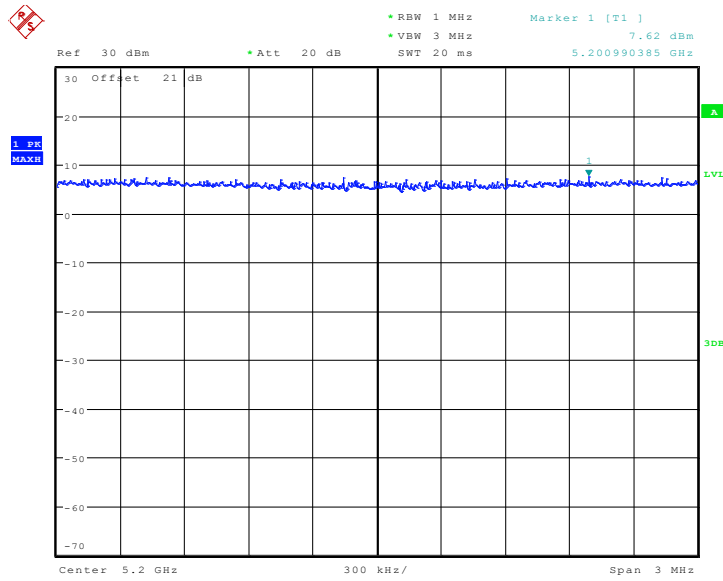
Date: 8.JUL.2013 14:59:55

**Fig. 3 Power Spectral Density (802.11a, Ch 48)**



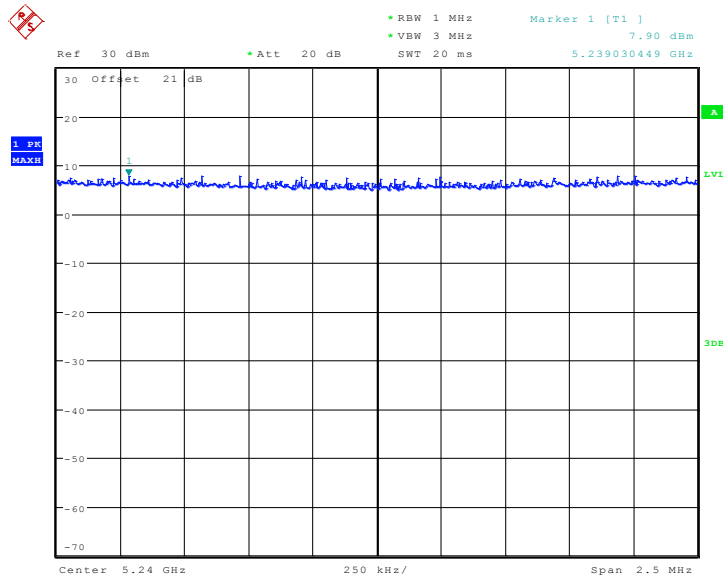
Date: 8.JUL.2013 14:55:07

**Fig. 4 Power Spectral Density (802.11n-HT20, Ch 36)**



Date: 13.AUG.2013 17:10:22

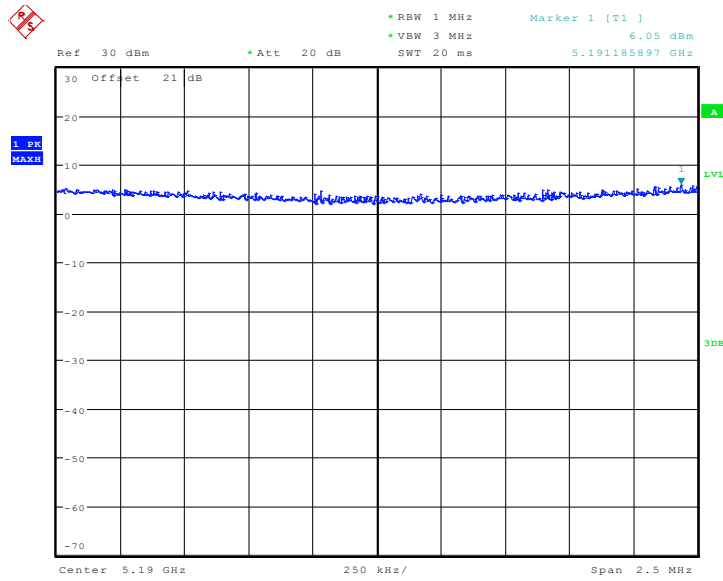
**Fig. 5 Power Spectral Density (802.11n-HT20, Ch 40)**



Date: 8.JUL.2013 14:54:34

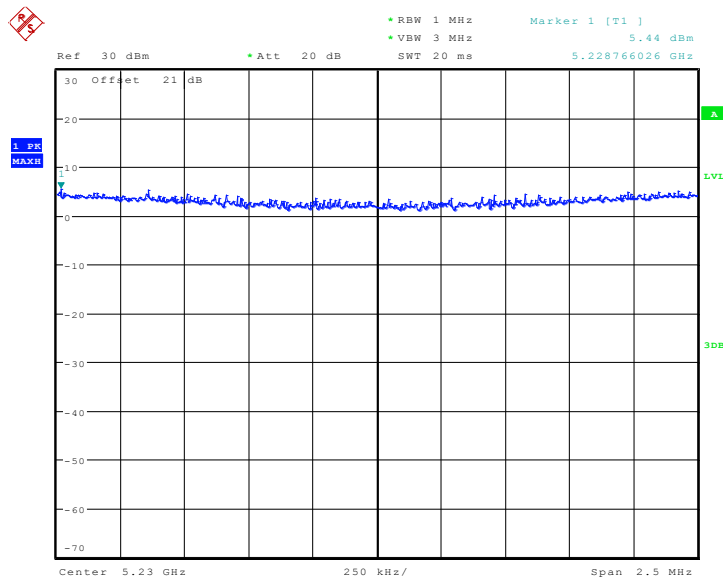
**Fig. 6 Power Spectral Density (802.11n-HT20, Ch 48)**





Date: 8.JUL.2013 14:58:14

**Fig. 7 Power Spectral Density (802.11n-HT40, Ch 38)**



Date: 8.JUL.2013 14:58:44

**Fig. 8 Power Spectral Density (802.11n-HT40, Ch 46)**

#### A.4. Occupied 26dB Bandwidth(conducted)

**Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	/

The measurement is made according to KDB 789033

**Measurement Uncertainty:**

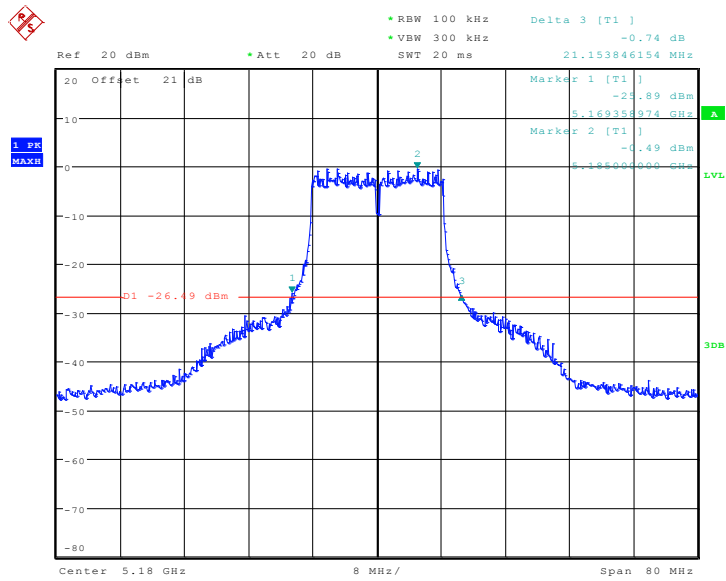
Measurement Uncertainty	60.80Hz
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**Measurement Result:**

Mode	Channel	Occupied 26dB Bandwidth ( kHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.9	21153.85	P
	5200 MHz	Fig.10	20831.73	P
	5240 MHz	Fig.11	21025.64	P
802.11n HT20	5180 MHz	Fig.12	21666.67	P
	5200 MHz	Fig.13	21088.14	P
	5240 MHz	Fig.14	21153.85	P
802.11n HT40	5190 MHz	Fig.15	39743.59	P
	5230 MHz	Fig.16	40128.21	P

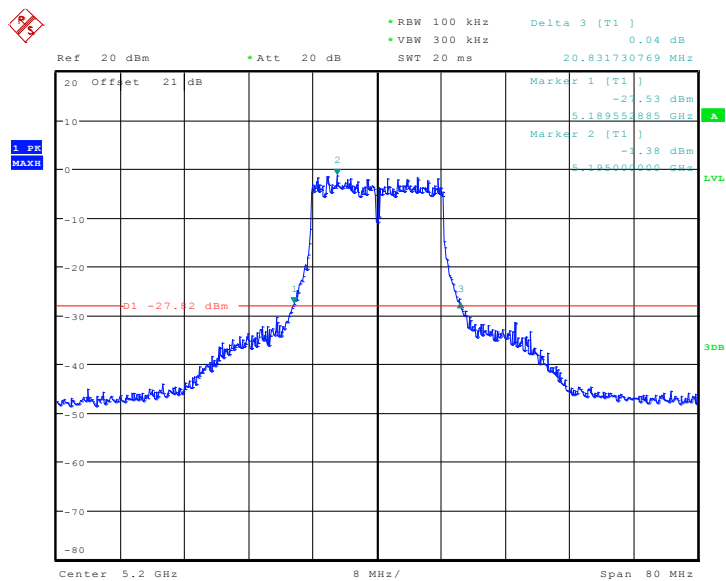
**Conclusion: PASS**

**Test graphs as below:**



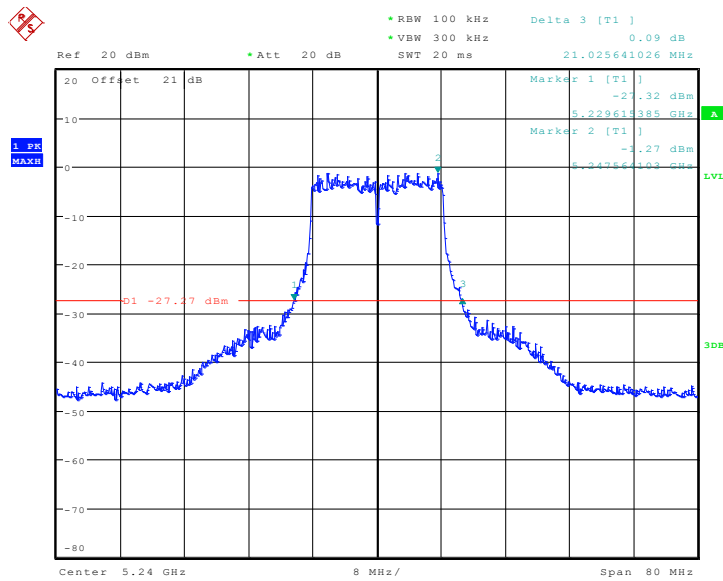
Date: 8.JULI.2013 15:02:19

**Fig. 9 Occupied 26dB Bandwidth (802.11a, 5180MHz)**



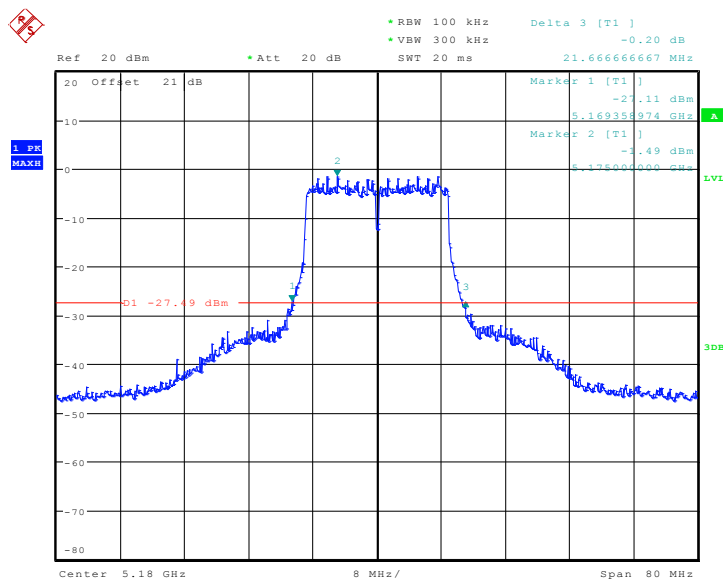
Date: 13.AUG.2013 17:20:41

**Fig. 10 Occupied 26dB Bandwidth (802.11a, 5200MHz)**



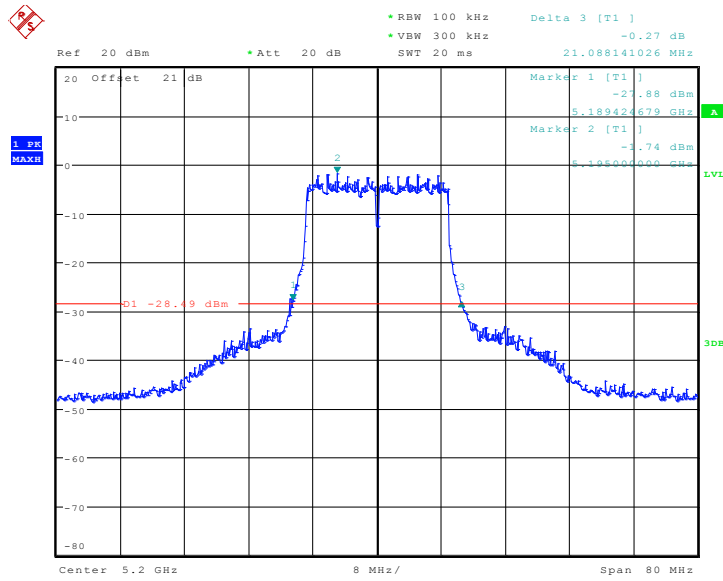
Date: 8.JUL.2013 15:03:52

**Fig. 11 Occupied 26dB Bandwidth (802.11a, 5240MHz)**



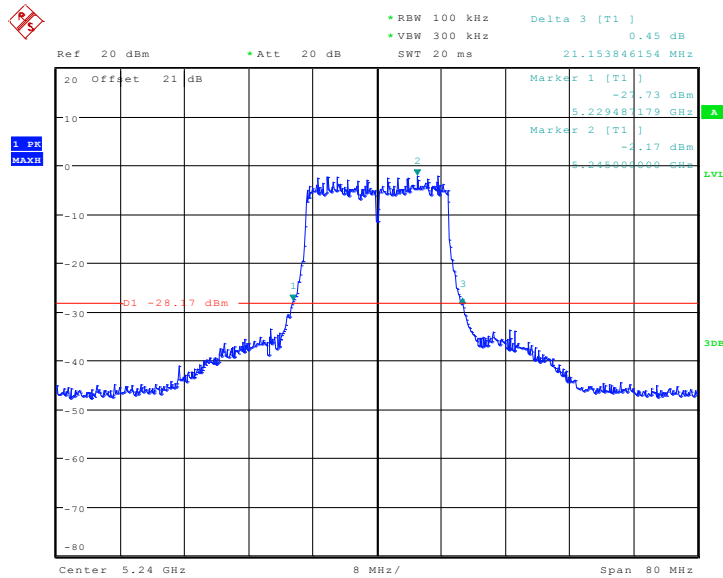
Date: 8.JUL.2013 15:05:31

**Fig. 12 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)**



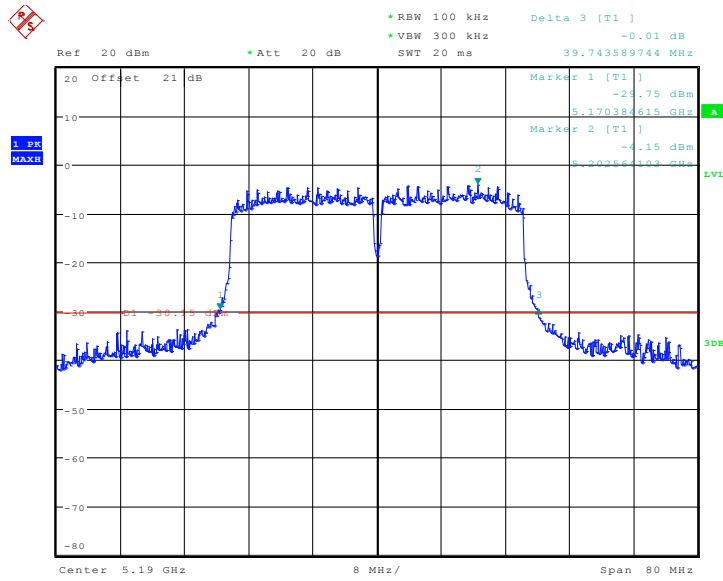
Date: 13.AUG.2013 17:22:33

**Fig. 13 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)**



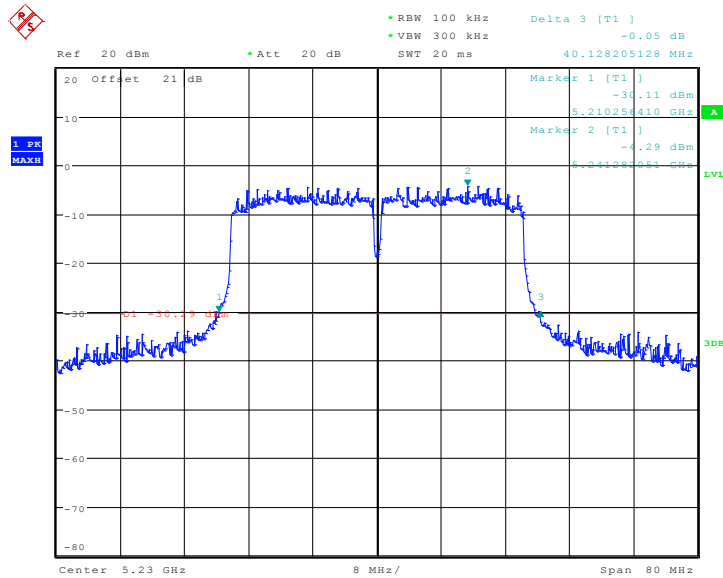
Date: 8.JULI.2013 15:06:32

**Fig. 14 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)**



Date: 8.JUL.2013 15:08:20

**Fig. 15 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)**



Date: 8.JUL.2013 15:09:51

**Fig. 16 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)**

## A.5. Band Edges Compliance

### A5.1 Band Edges - conducted

#### Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.407	> 20

The measurement is made according to KDB 789033

#### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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#### Measurement Result:

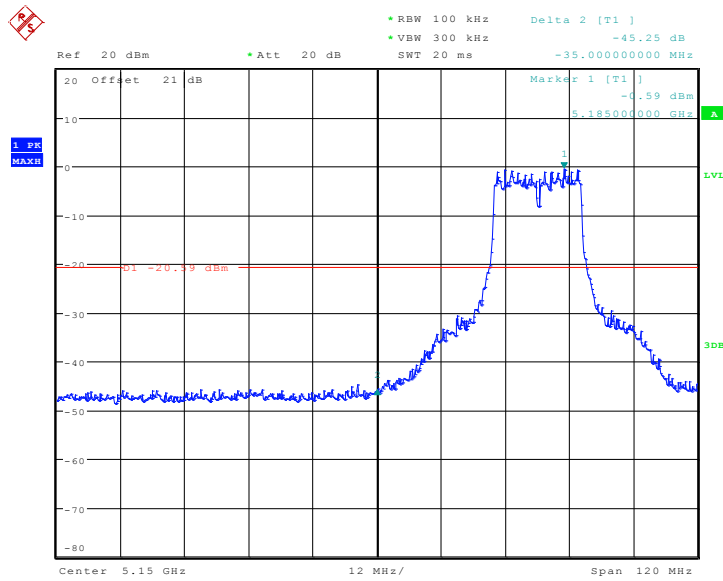
Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.17	P
802.11n HT20	5180 MHz	Fig.18	P
802.11n HT40	5190 MHz	Fig.19	P

#### Note:

- 1) A/N-HT20 mode: the highest supported frequency (center frequency: 5240MHz, bandwidth: 20MHz), is far away from the high band edge (5350MHz), so it meet the requirement.
- 2) N-HT40 mode: the highest supported frequency (center frequency: 5230MHz, bandwidth: 30MHz), is far away from the high band edge (5350MHz), so it meet the requirement.

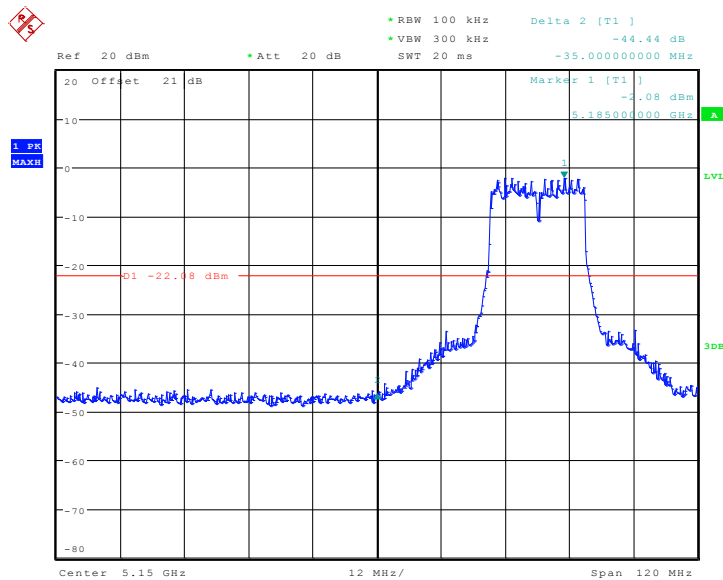
**Conclusion: PASS**

**Test graphs as below:**



Date: 8.III.2013 15:16:32

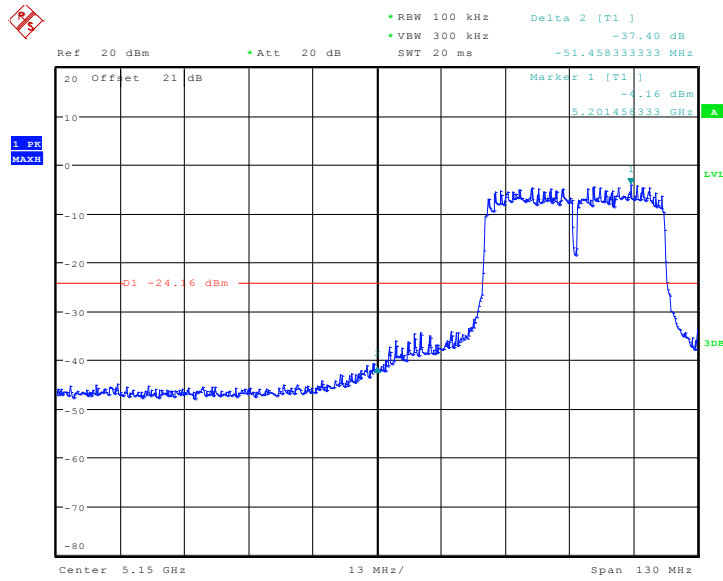
**Fig. 17 Band Edges (802.11a, 5180MHz)**



Date: 8.III.2013 15:15:29

**Fig. 18 Band Edges (802.11n-HT20, 5180MHz)**





Date: 8.JUL.2013 15:13:25

**Fig. 19 Band Edges (802.11n-HT40, 5190MHz)**

### A5.2 Band Edges - Radiated

#### Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.407	> 20

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

#### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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#### Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.20	P
802.11n HT20	5180 MHz	Fig.21	P
802.11n HT40	5190 MHz	Fig.22	P

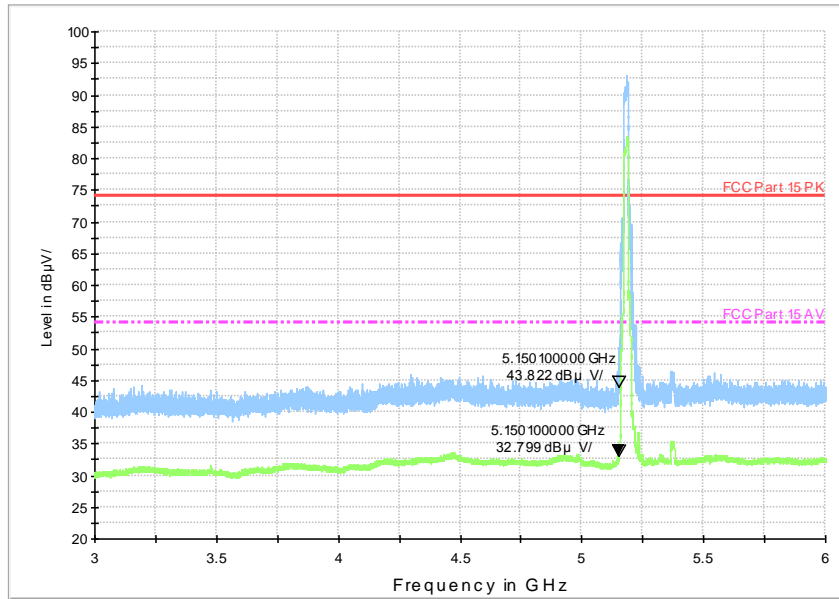
Note:

- 1) A/N-HT20 mode: the highest supported frequency (center frequency: 5240MHz, bandwidth: 20MHz), is far away from the high band edge (5350MHz), so it meet the requirement.
- 2) N-HT40 mode: the highest supported frequency (center frequency: 5230MHz, bandwidth: 30MHz), is far away from the high band edge (5350MHz), so it meet the requirement.

**Conclusion: PASS**

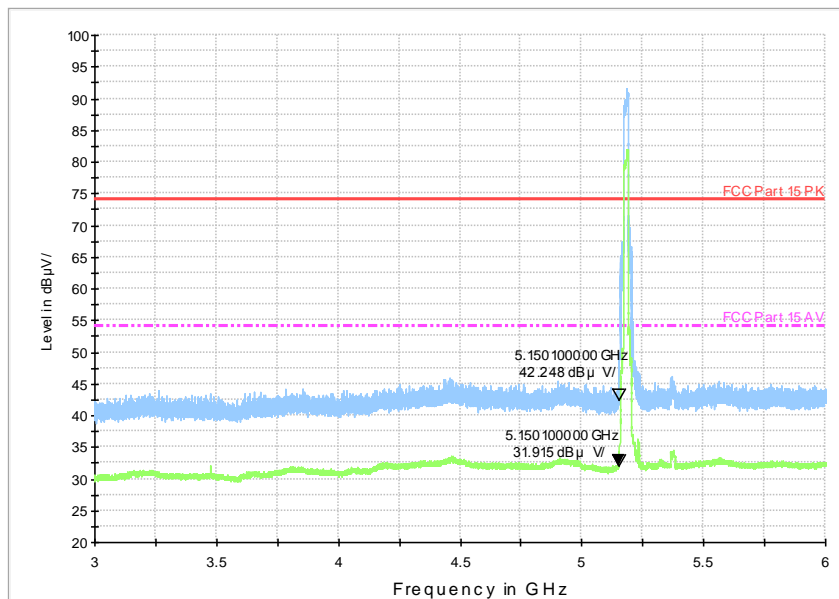
**Test graphs as below:**

RE - 3GHz-6GHz



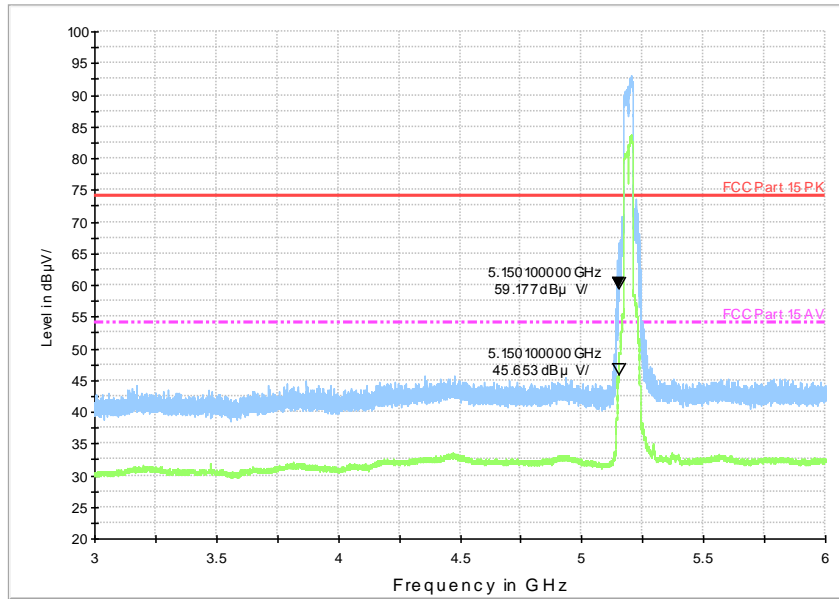
**Fig. 20 Band Edges (802.11a, 5180MHz)**

RE - 3GHz-6GHz



**Fig. 21 Band Edges (802.11n-HT20, 5180MHz)**

RE - 3GHz-6GHz



**Fig. 22 Band Edges (802.11n-HT40, 5190MHz)**

## A.6. Transmitter Spurious Emission

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### Limit in restricted band:

Frequency of emission (MHz)	Field strength(dB $\mu$ V/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

### Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz $\leq$ f $\leq$ 2GHz	0.63
2GHz $\leq$ f $\leq$ 3.6GHz	0.82
3.6GHz $\leq$ f $\leq$ 8GHz	1.55
8GHz $\leq$ f $\leq$ 20GHz	1.86
20GHz $\leq$ f $\leq$ 22GHz	1.90
22GHz $\leq$ f $\leq$ 26GHz	2.20

### Measurement Results:

#### 802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	30 MHz ~1 GHz	Fig.23	P
		1 GHz ~ 3 GHz	Fig.24	P
		3 GHz ~ 6 GHz	Fig.25	P
		6 GHz ~ 18 GHz	Fig.26	P
		18 GHz ~ 26.5 GHz	Fig.27	P
		26.5 GHz ~ 40 GHz	Fig.28	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.29	P
		1 GHz ~ 3 GHz	Fig.30	P
		3 GHz ~ 6 GHz	Fig.31	P
		6 GHz ~ 18 GHz	Fig.32	P
		18 GHz ~ 26.5 GHz	Fig.33	P
		26.5 GHz ~ 40 GHz	Fig.34	P

	48(5240MHz)	30 MHz ~1 GHz	Fig.35	P
		1 GHz ~ 3 GHz	Fig.36	P
		3 GHz ~ 6 GHz	Fig.37	P
		6 GHz ~ 18 GHz	Fig.38	P
		18 GHz ~ 26.5 GHz	Fig.39	P
		26.5 GHz ~ 40 GHz	Fig.40	P

**802.11n-HT20 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT20	36(5180MHz)	30 MHz ~1 GHz	Fig.41	P
		1 GHz ~ 3 GHz	Fig.42	P
		3 GHz ~ 6 GHz	Fig.43	P
		6 GHz ~ 18 GHz	Fig.44	P
		18 GHz ~ 26.5 GHz	Fig.45	P
		26.5 GHz ~ 40 GHz	Fig.46	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.47	P
		1 GHz ~ 3 GHz	Fig.48	P
		3 GHz ~ 6 GHz	Fig.49	P
		6 GHz ~ 18 GHz	Fig.50	P
		18 GHz ~ 26.5 GHz	Fig.51	P
		26.5 GHz ~ 40 GHz	Fig.52	P
	48(5240MHz)	30 MHz ~1 GHz	Fig.53	P
		1 GHz ~ 3 GHz	Fig.54	P
		3 GHz ~ 6 GHz	Fig.55	P
		6 GHz ~ 18 GHz	Fig.56	P
		18 GHz ~ 26.5 GHz	Fig.57	P
		26.5 GHz ~ 40 GHz	Fig.58	P

**802.11n-HT40 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	Fig.59	P
		1 GHz ~ 3 GHz	Fig.60	P
		3 GHz ~ 6 GHz	Fig.61	P
		6 GHz ~ 18 GHz	Fig.62	P
		18 GHz ~ 26.5 GHz	Fig.63	P
		26.5 GHz ~ 40 GHz	Fig.64	P
	46(5230MHz)	30 MHz ~1 GHz	Fig.65	P
		1 GHz ~ 3 GHz	Fig.66	P
		3 GHz ~ 6 GHz	Fig.67	P
		6 GHz ~ 18 GHz	Fig.68	P
		18 GHz ~ 26.5 GHz	Fig.69	P
		26.5 GHz ~ 40 GHz	Fig.70	P

**Conclusion: PASS**

Test graphs as below:

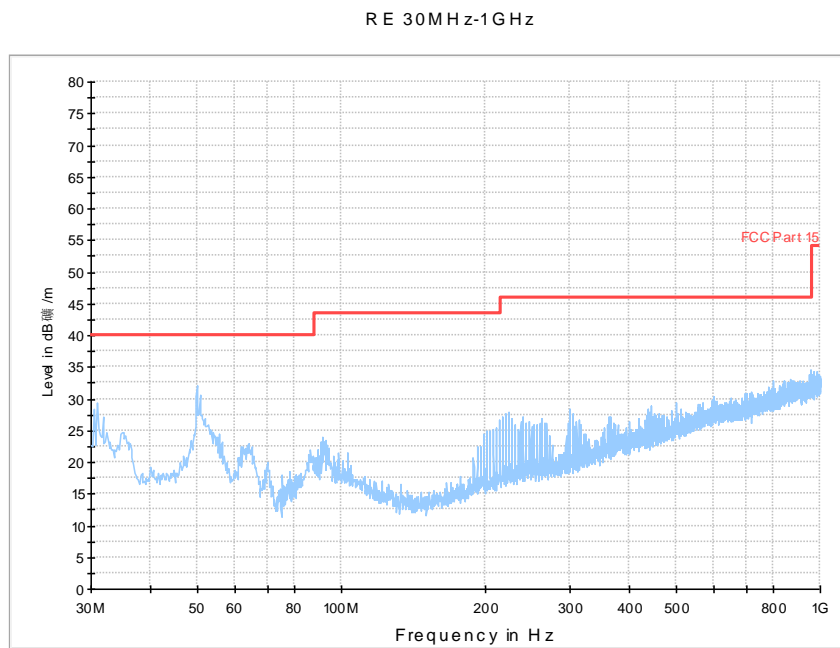


Fig. 23 Radiated Spurious Emission (802.11a, ch36, 30 MHz-1 GHz)

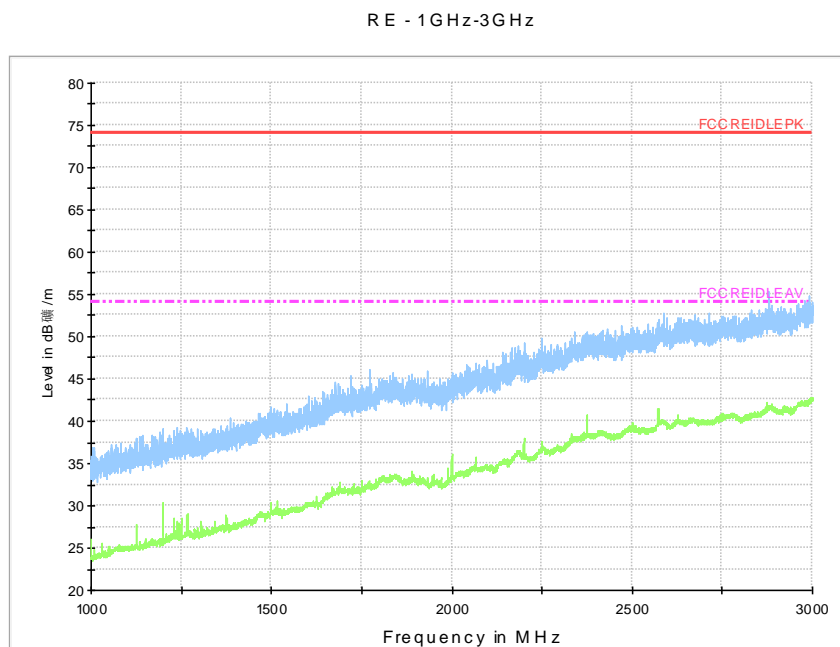
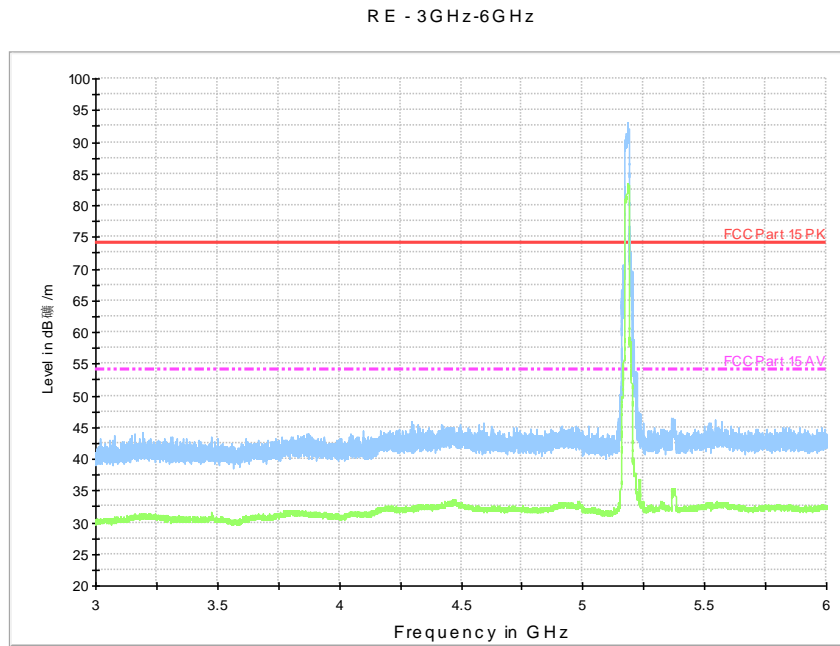
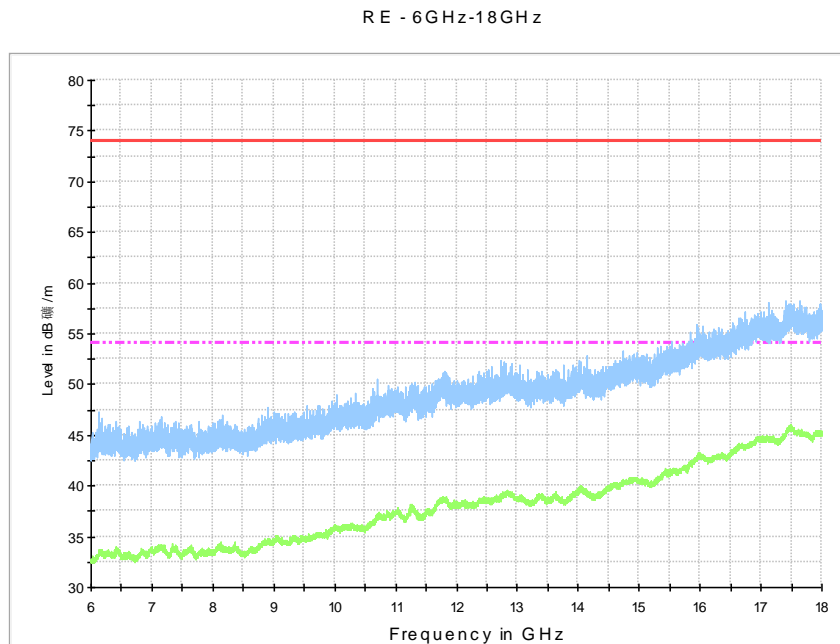


Fig. 24 Radiated Spurious Emission (802.11a, ch36, 1 GHz-3 GHz)

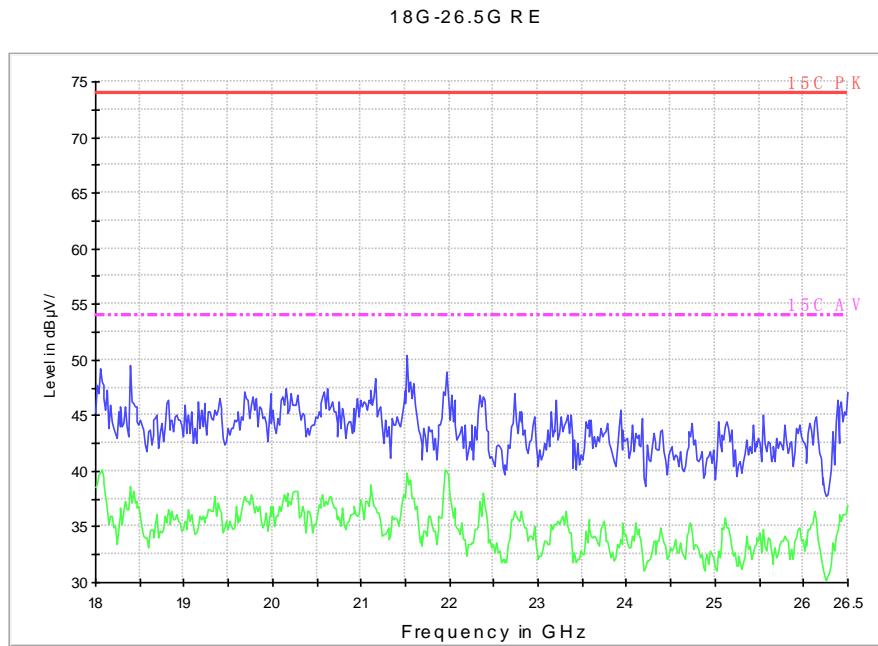


**Fig. 25 Radiated Spurious Emission (802.11a, ch36, 3 GHz-6 GHz)**

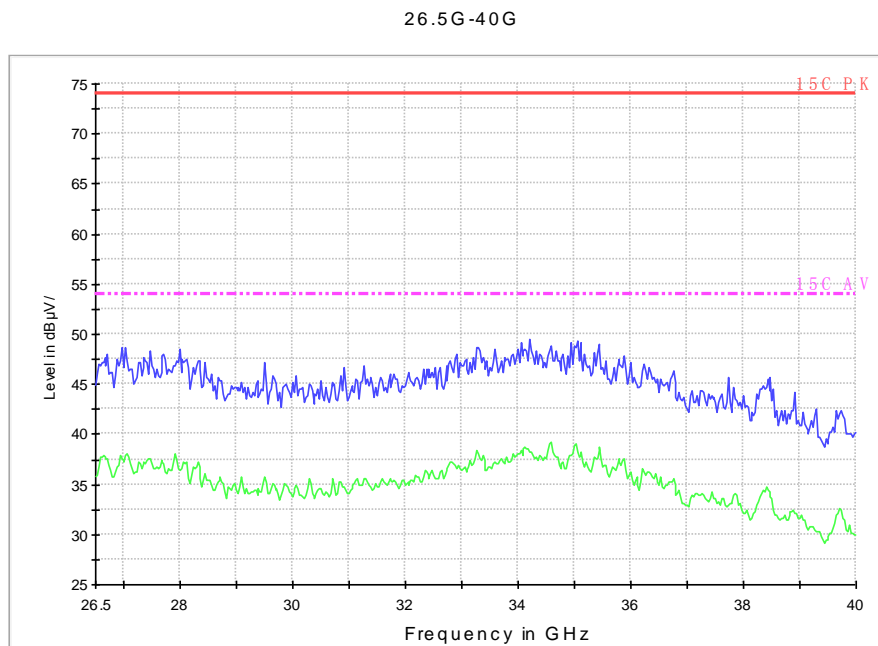


**Fig. 26 Radiated Spurious Emission (802.11a, ch36, 6 GHz-18 GHz)**

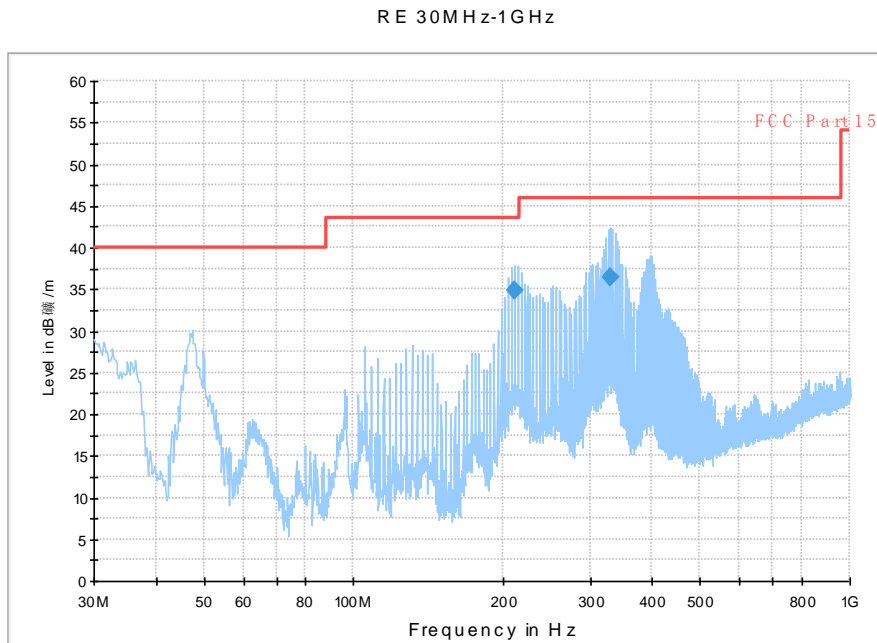




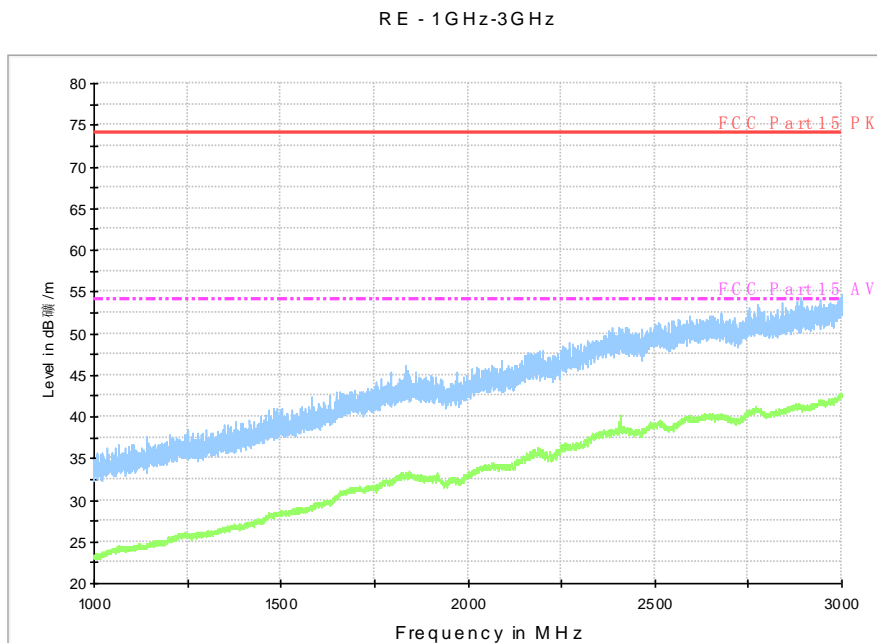
**Fig. 27 Radiated Spurious Emission (802.11a, ch36, 18 GHz-26.5 GHz)**



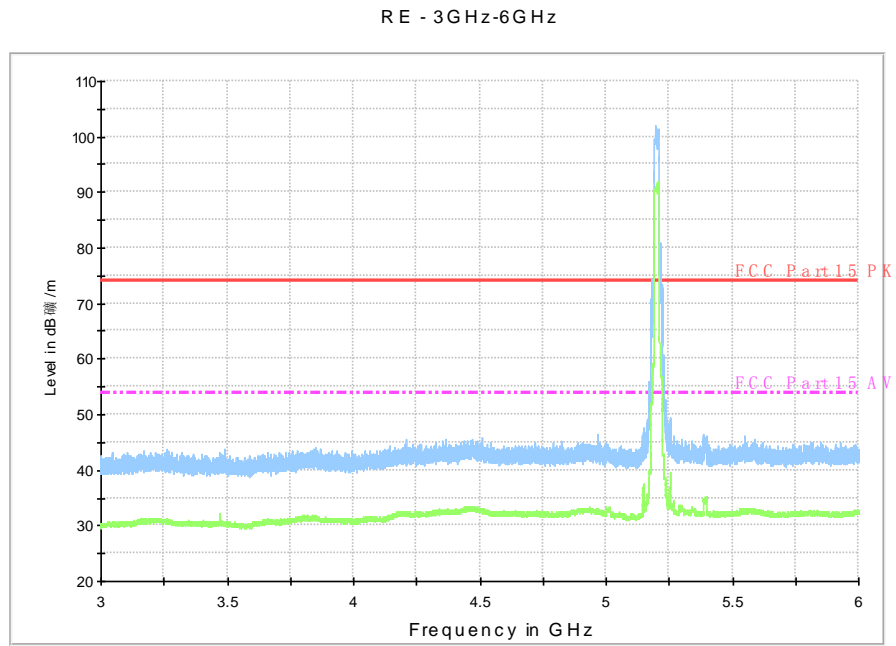
**Fig. 28 Radiated Spurious Emission (802.11a, ch36, 26.5 GHz-40 GHz)**



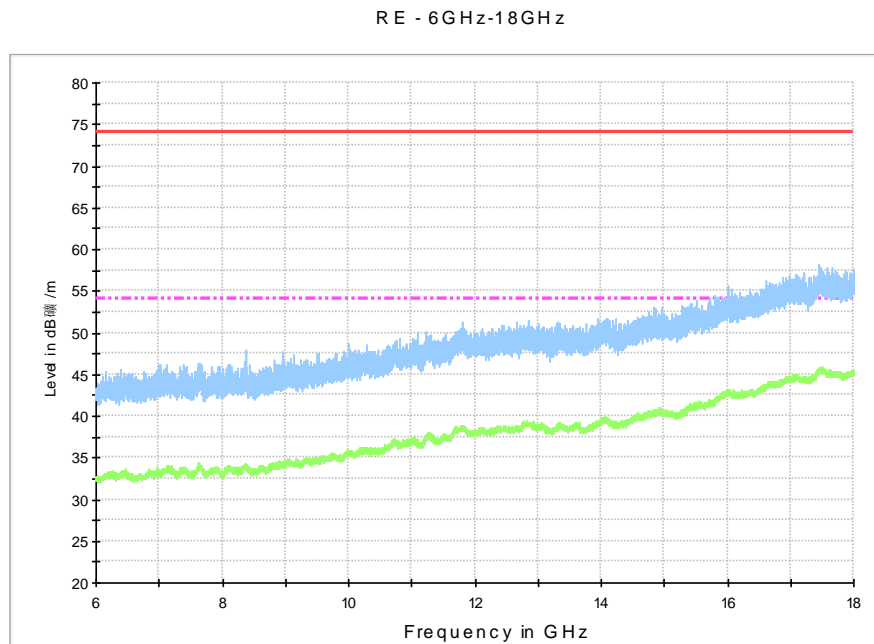
**Fig. 29 Radiated Spurious Emission (802.11a, ch40, 30 MHz-1 GHz)**



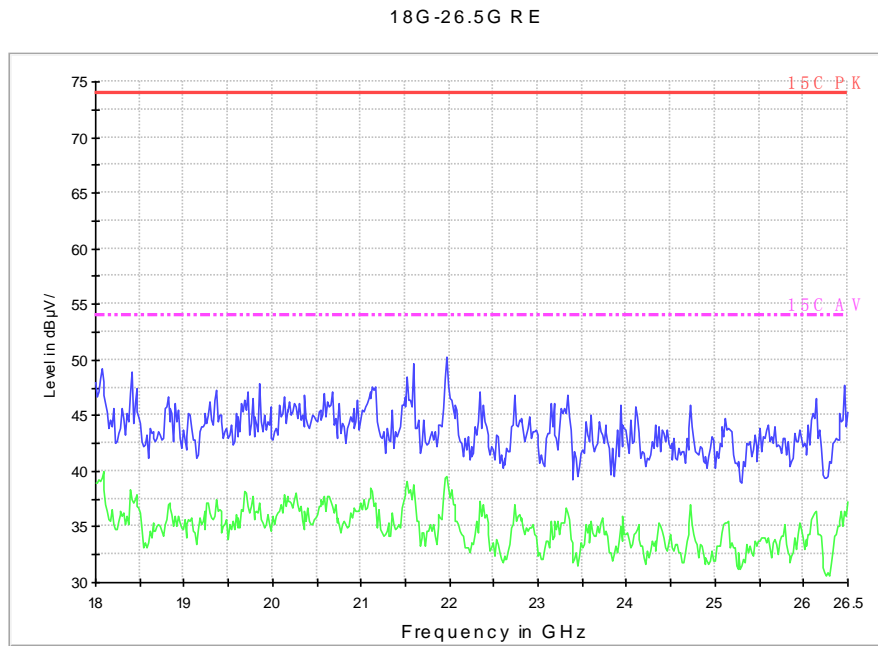
**Fig. 30 Radiated Spurious Emission (802.11a, ch40, 1 GHz-3 GHz)**



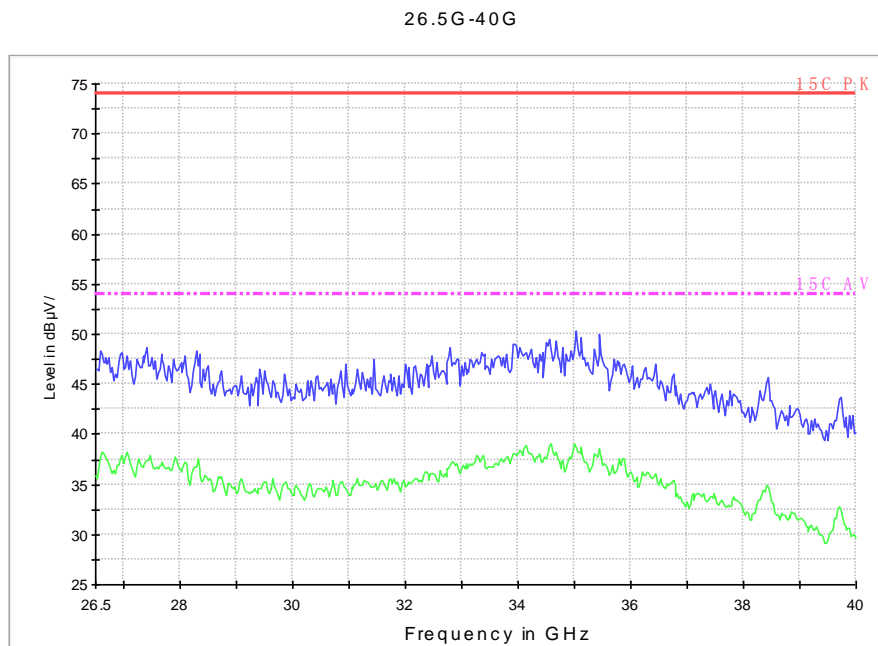
**Fig. 31 Radiated Spurious Emission (802.11a, ch40, 3 GHz-6 GHz)**



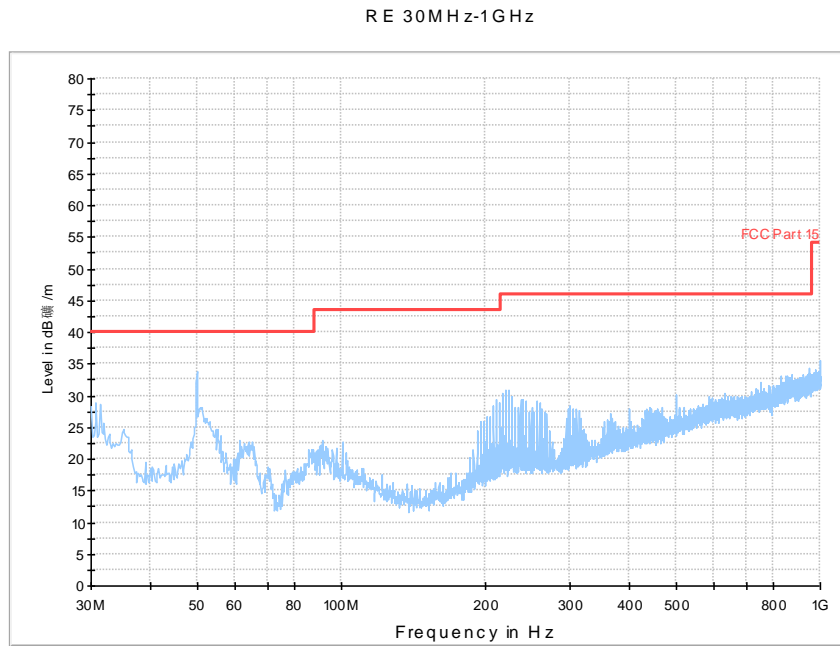
**Fig. 32 Radiated Spurious Emission (802.11a, ch40, 6 GHz-18 GHz)**



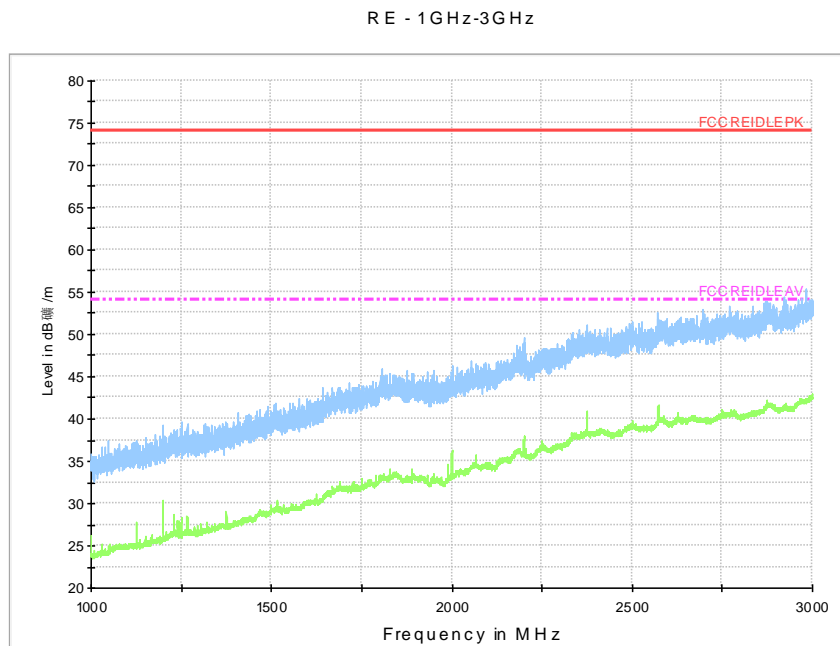
**Fig. 33 Radiated Spurious Emission (802.11a, ch40, 18 GHz-26.5 GHz)**



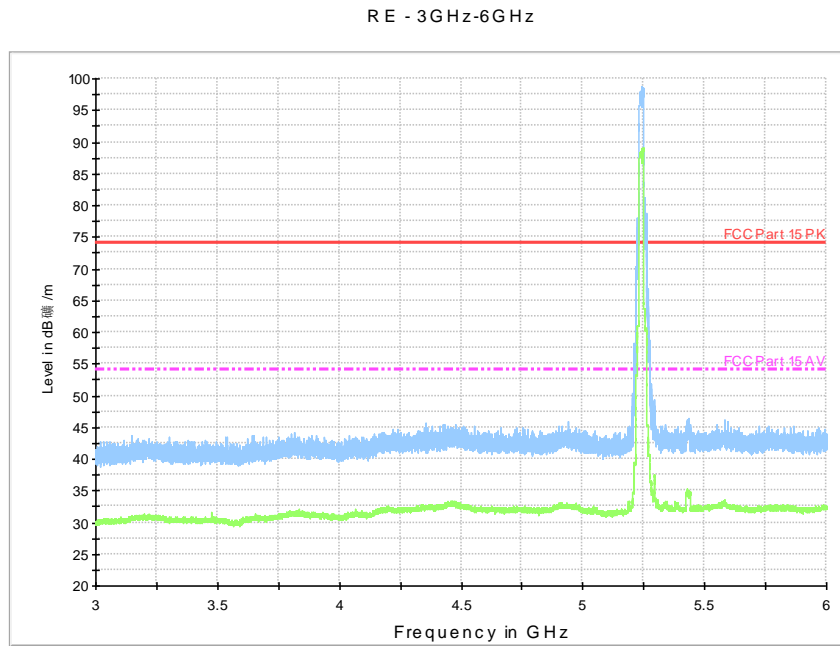
**Fig. 34 Radiated Spurious Emission (802.11a, ch40, 26.5 GHz-40 GHz)**



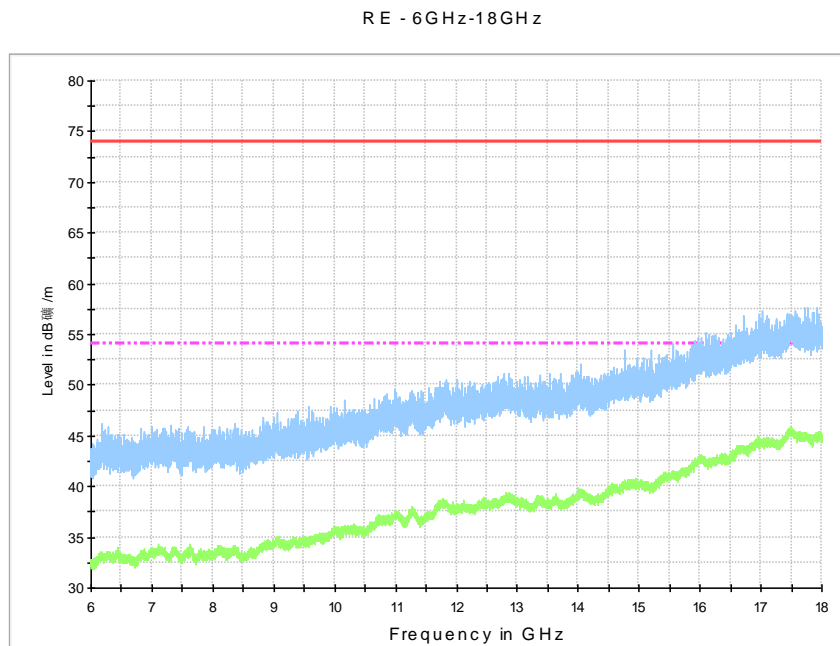
**Fig. 35 Radiated Spurious Emission (802.11a, ch48, 30 MHz-1 GHz)**



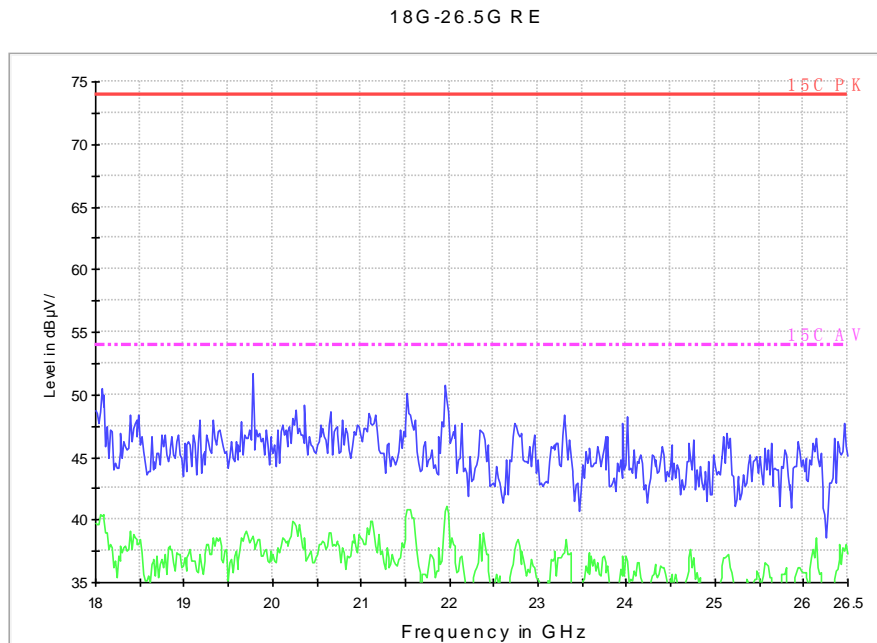
**Fig. 36 Radiated Spurious Emission (802.11a, ch48, 1 GHz-3 GHz)**



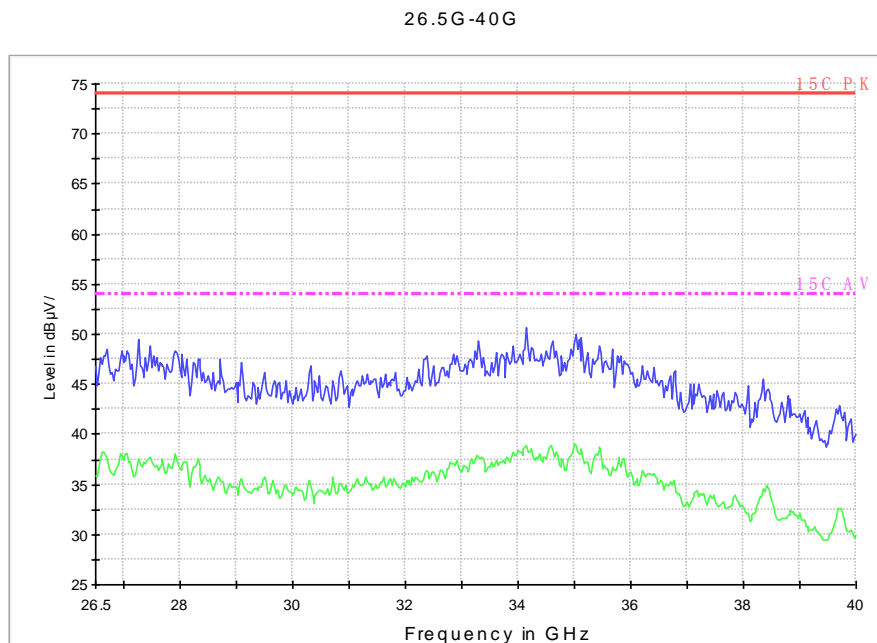
**Fig. 37 Radiated Spurious Emission (802.11a, ch48, 3 GHz-6 GHz)**



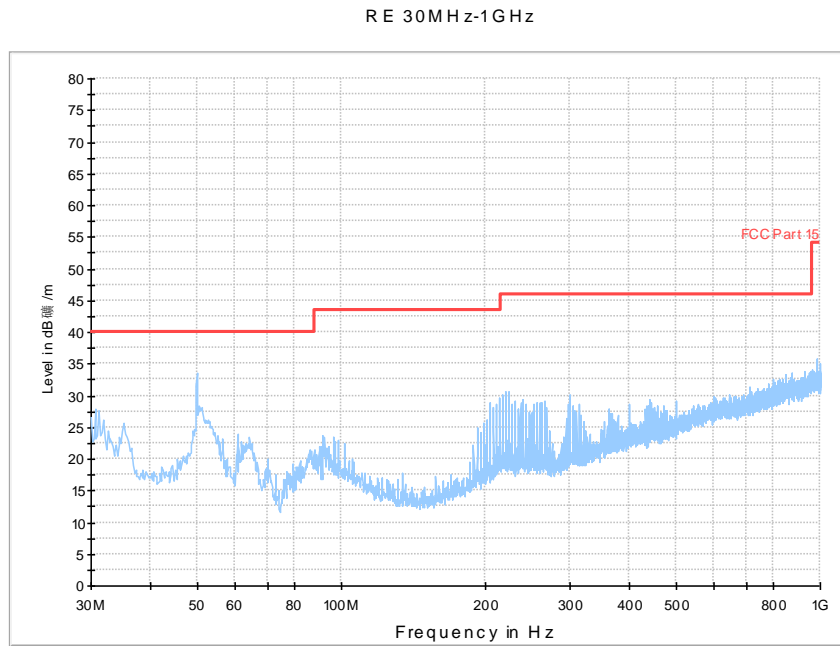
**Fig. 38 Radiated Spurious Emission (802.11a, ch48, 6 GHz-18 GHz)**



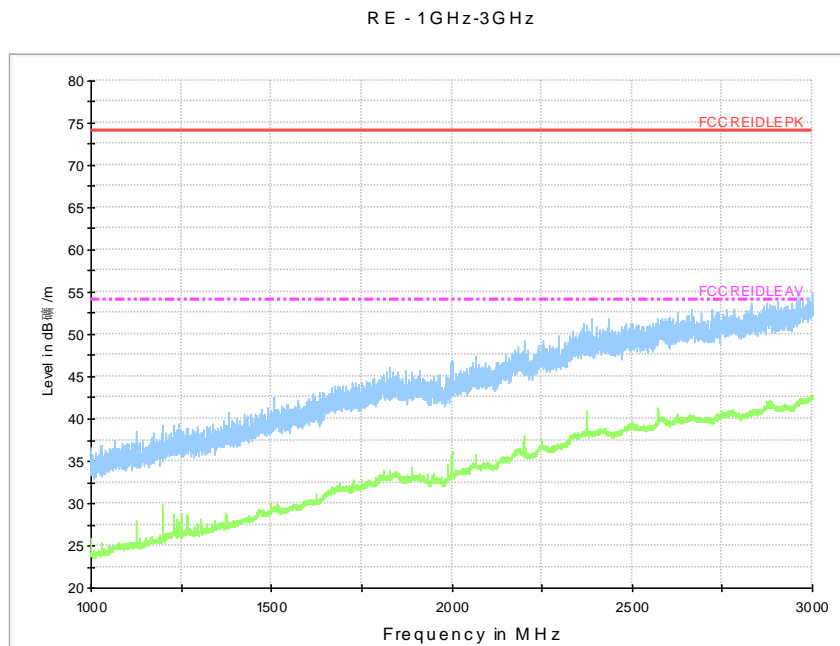
**Fig. 39 Radiated Spurious Emission (802.11a, ch48, 18 GHz-26.5 GHz)**



**Fig. 40 Radiated Spurious Emission (802.11a, ch48, 26.5 GHz-40 GHz)**

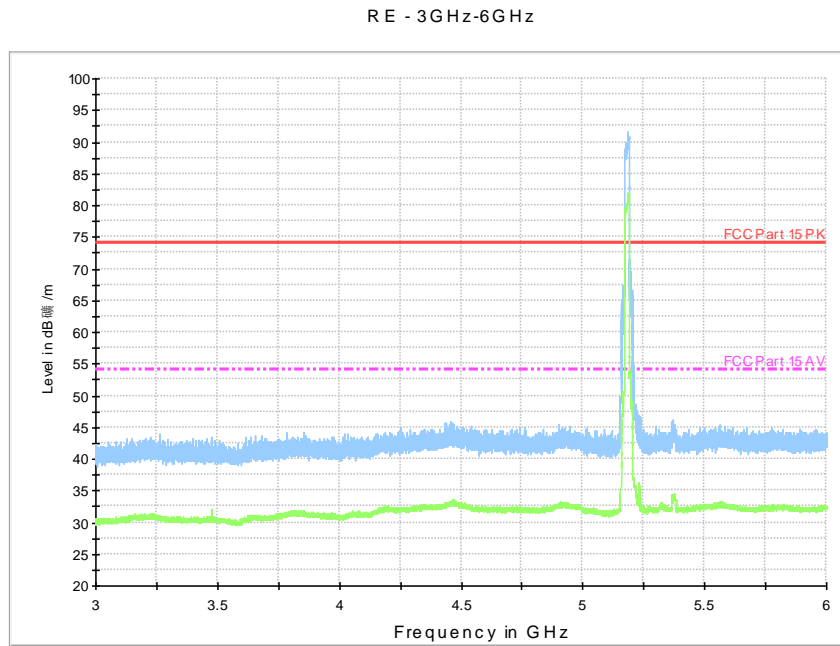


**Fig. 41 Radiated Spurious Emission (802.11n-HT20, ch36, 30 MHz-1 GHz)**

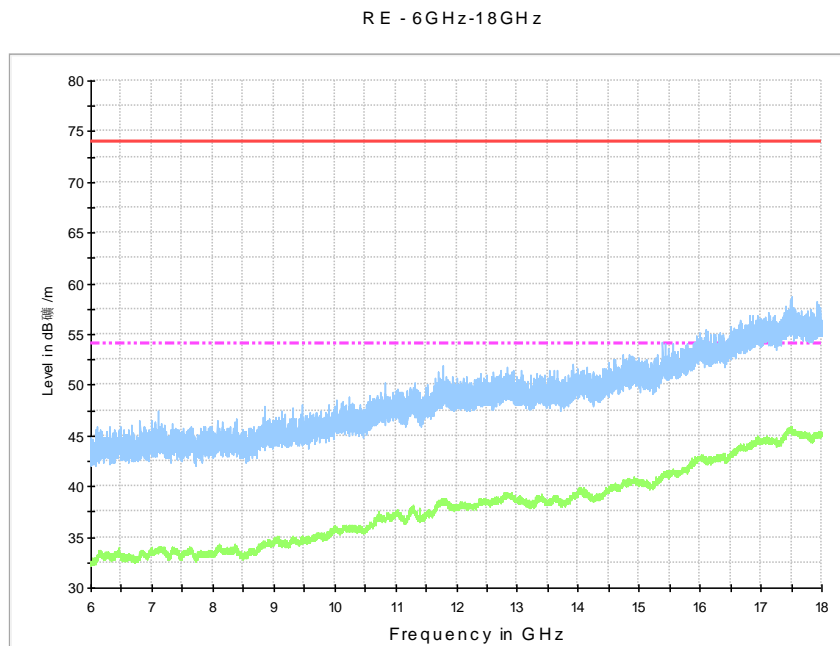


**Fig. 42 Radiated Spurious Emission (802.11n-HT20, ch36, 1 GHz-3 GHz)**

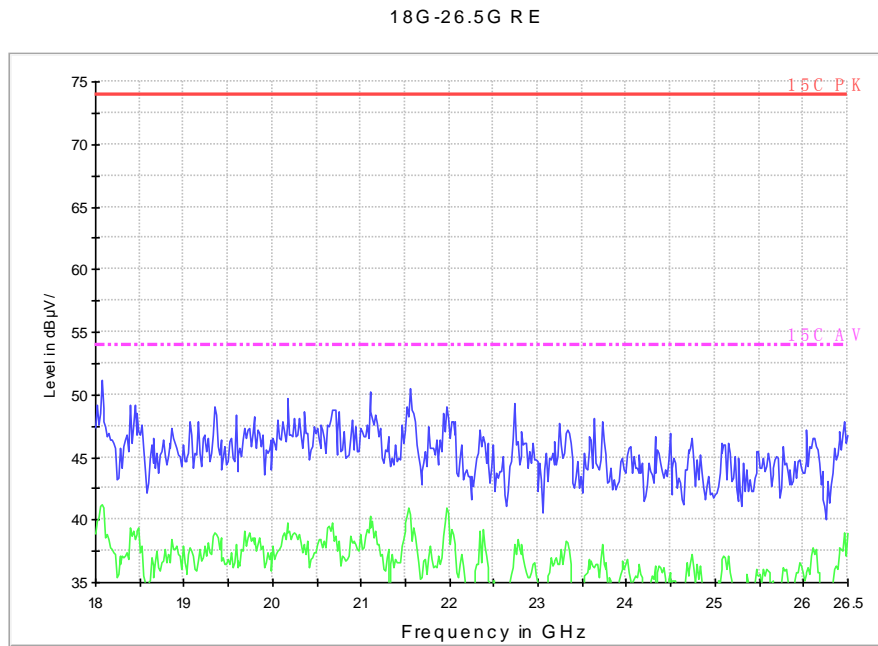




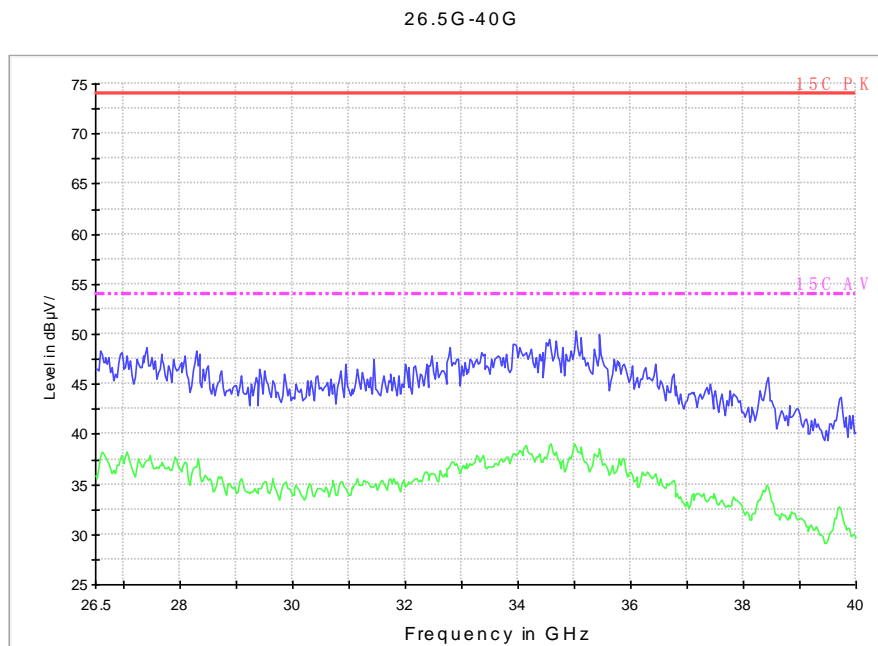
**Fig. 43 Radiated Spurious Emission (802.11n-HT20, ch36, 3 GHz-6 GHz)**



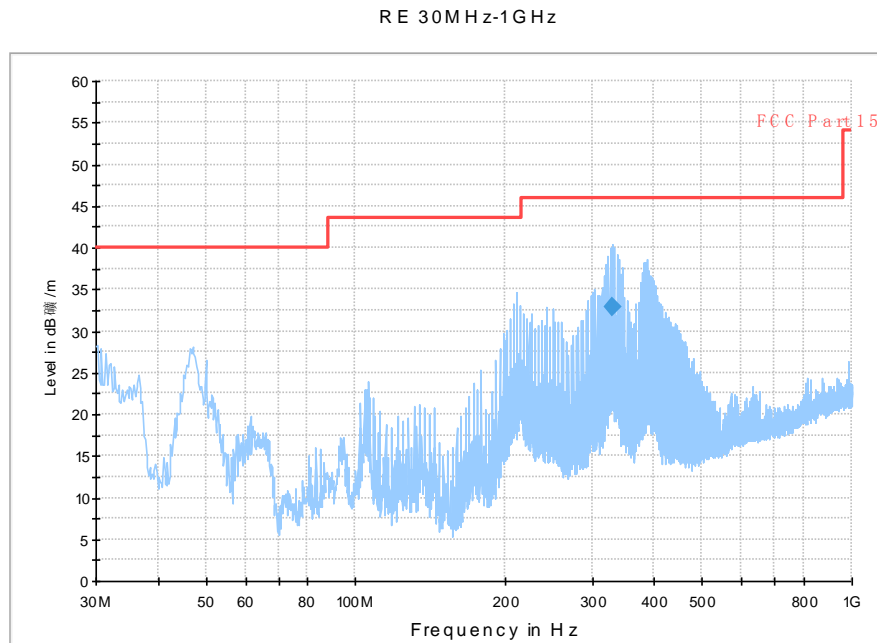
**Fig. 44 Radiated Spurious Emission (802.11n-HT20, ch36, 6 GHz-18 GHz)**



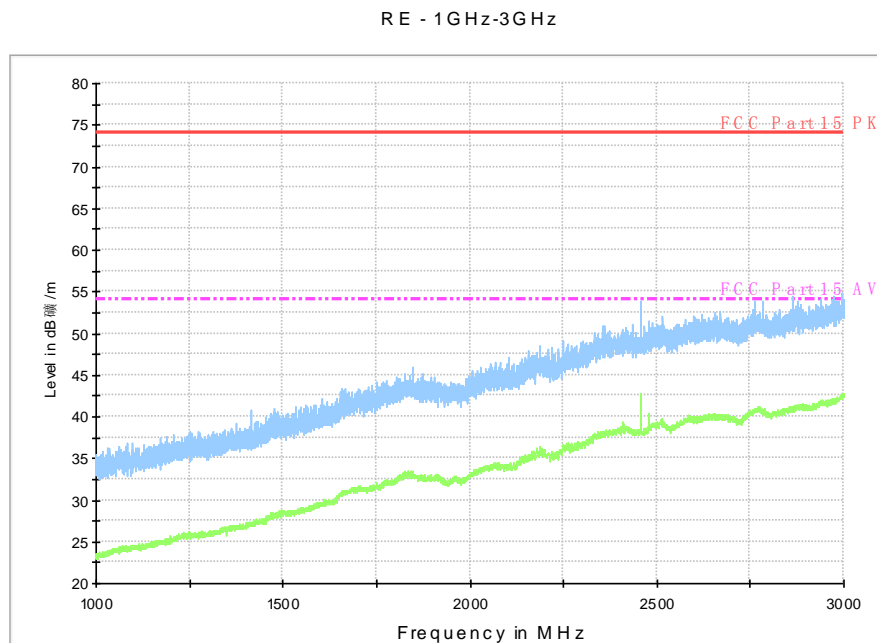
**Fig. 45 Radiated Spurious Emission (802.11n-HT20, ch36, 18 GHz-26.5 GHz)**



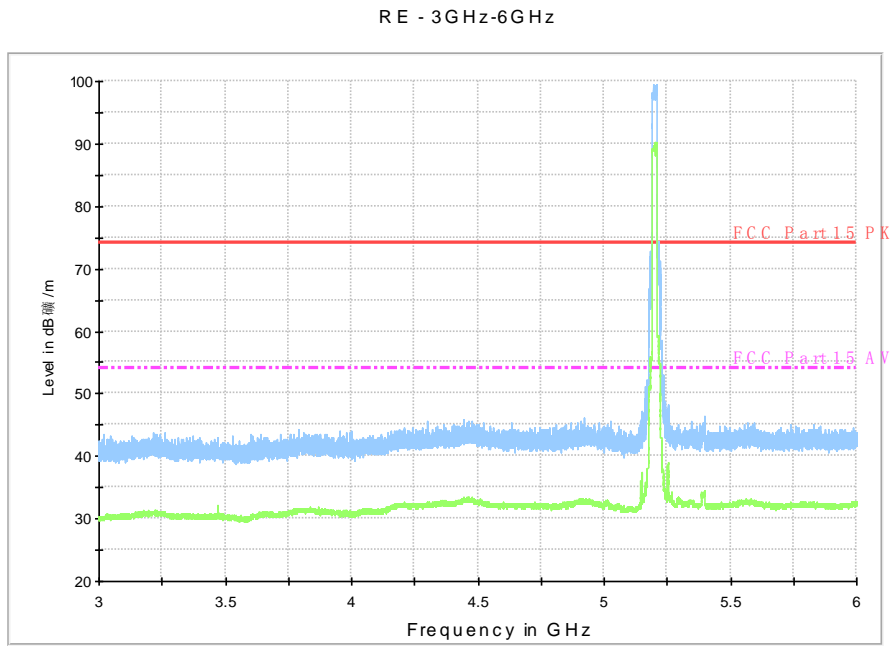
**Fig. 46 Radiated Spurious Emission (802.11n-HT20, ch36, 26.5 GHz-40 GHz)**



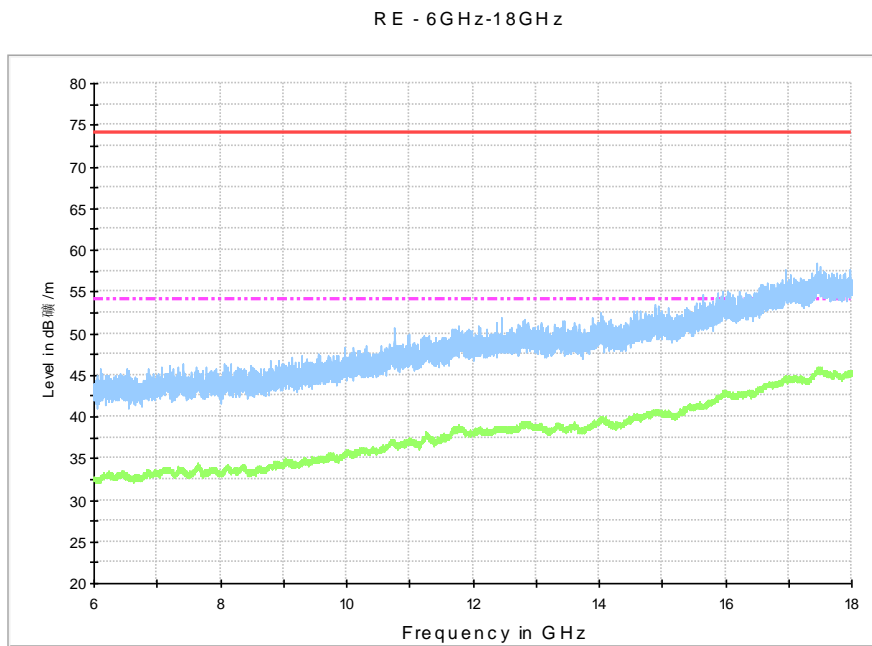
**Fig. 47 Radiated Spurious Emission (802.11n-HT20, ch40, 30 MHz-1 GHz)**



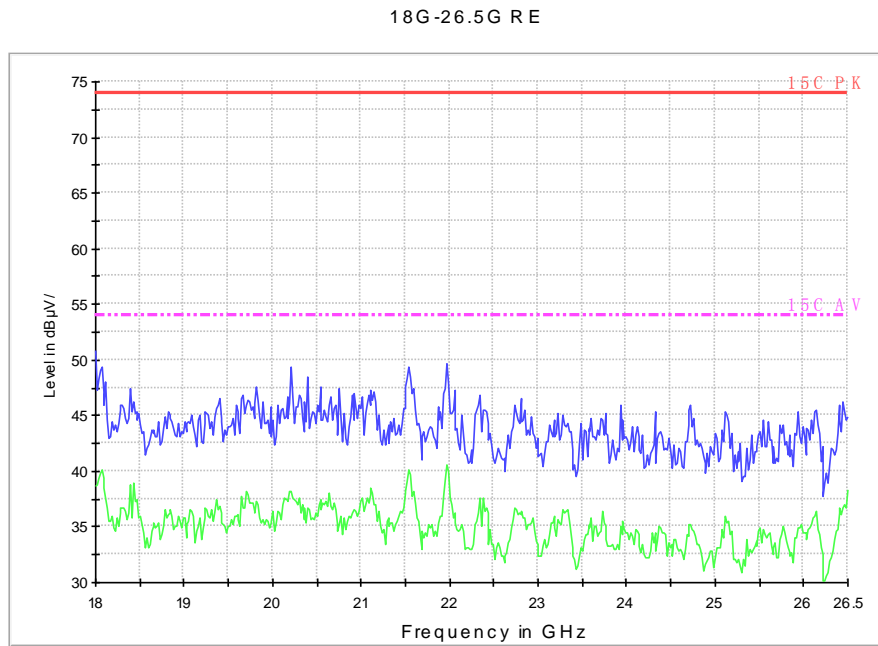
**Fig. 48 Radiated Spurious Emission (802.11n-HT20, ch40, 1 GHz-3 GHz)**



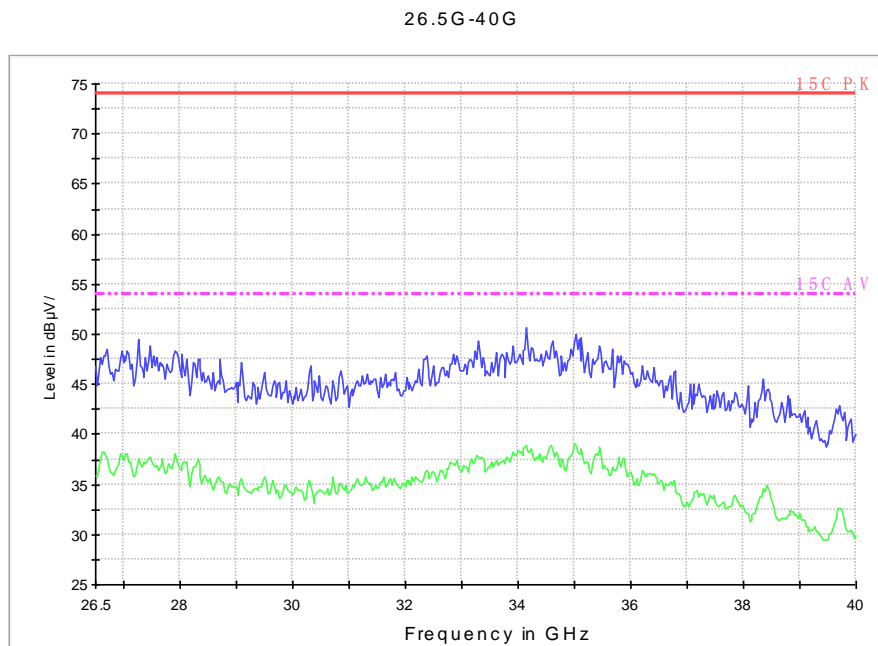
**Fig. 49 Radiated Spurious Emission (802.11n-HT20, ch40, 3 GHz-6 GHz)**



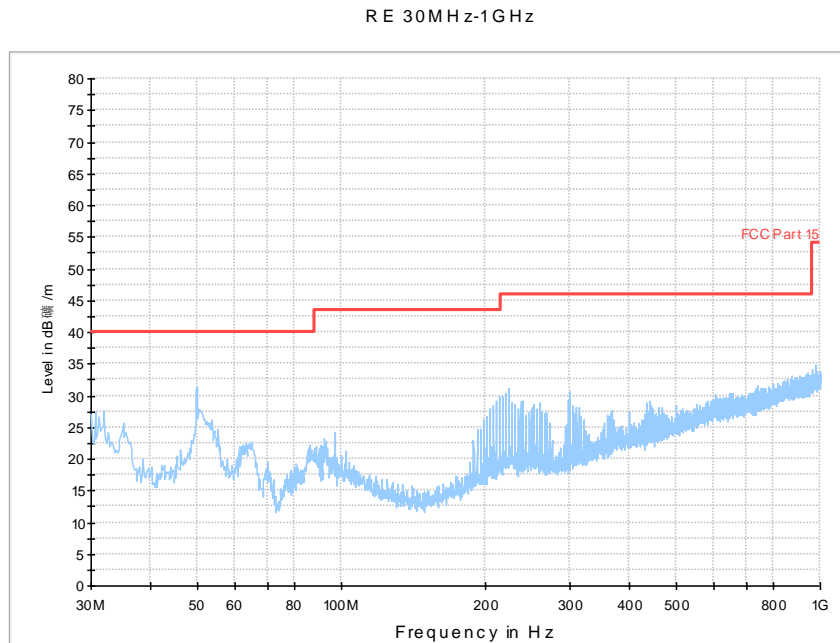
**Fig. 50 Radiated Spurious Emission (802.11n-HT20, ch40, 6 GHz-18 GHz)**



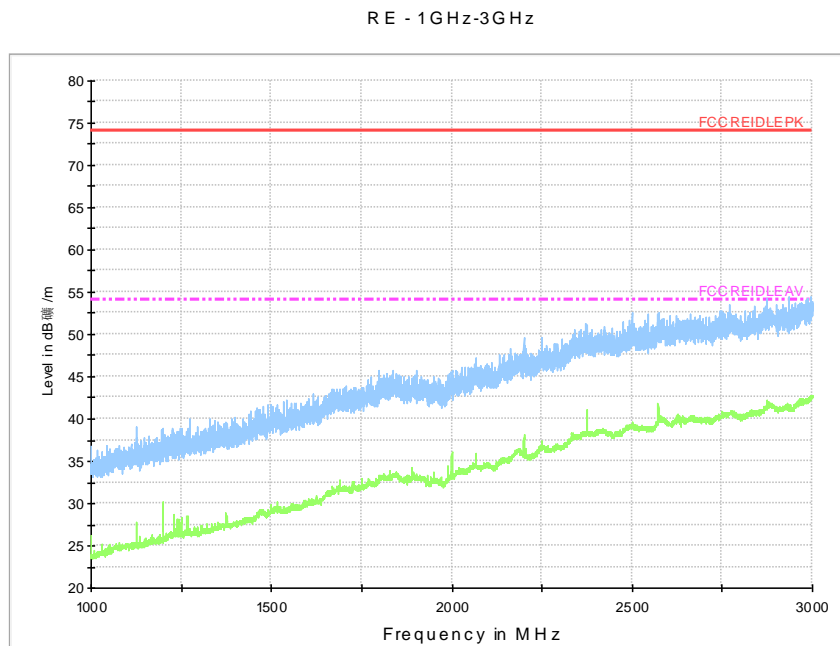
**Fig. 51 Radiated Spurious Emission (802.11n-HT20, ch40, 18 GHz-26.5 GHz)**



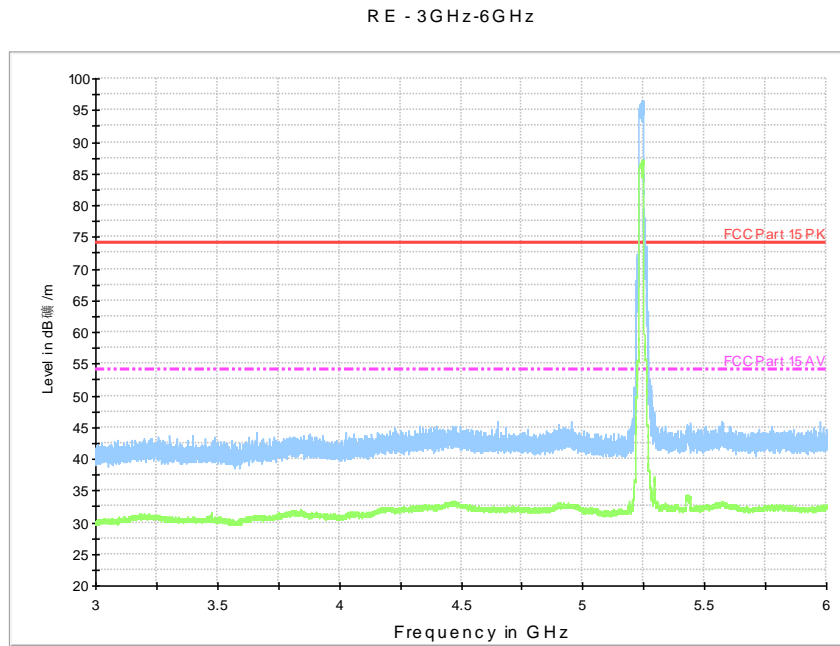
**Fig. 52 Radiated Spurious Emission (802.11n-HT20, ch40, 26.5 GHz-40 GHz)**



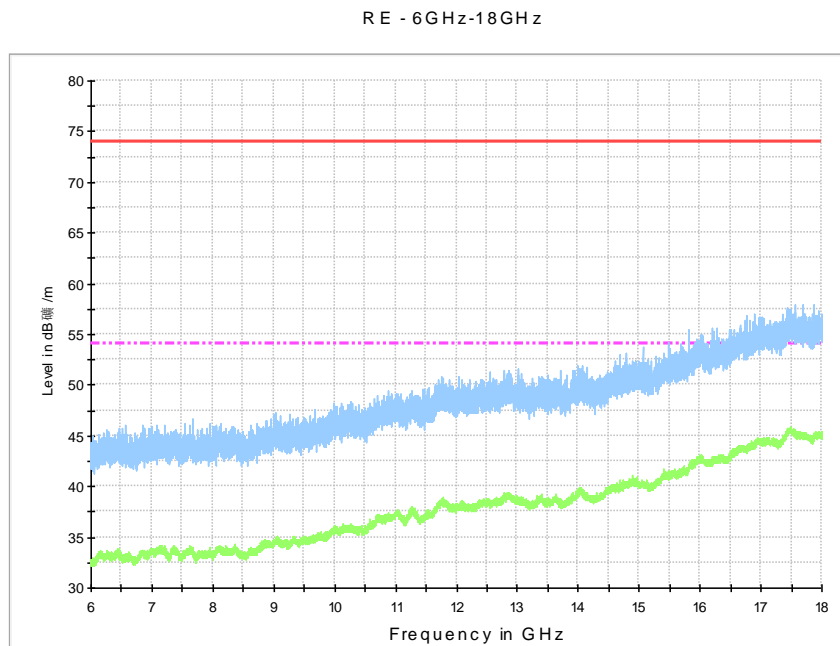
**Fig. 53 Radiated Spurious Emission (802.11n-HT20, ch48, 30 MHz-1 GHz)**



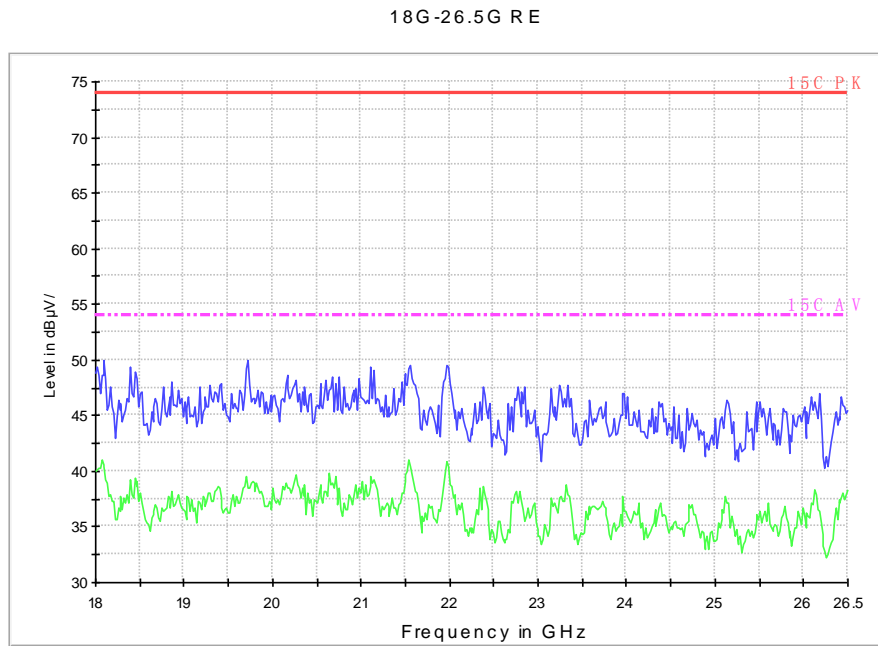
**Fig. 54 Radiated Spurious Emission (802.11n-HT20, ch48, 1 GHz-3 GHz)**



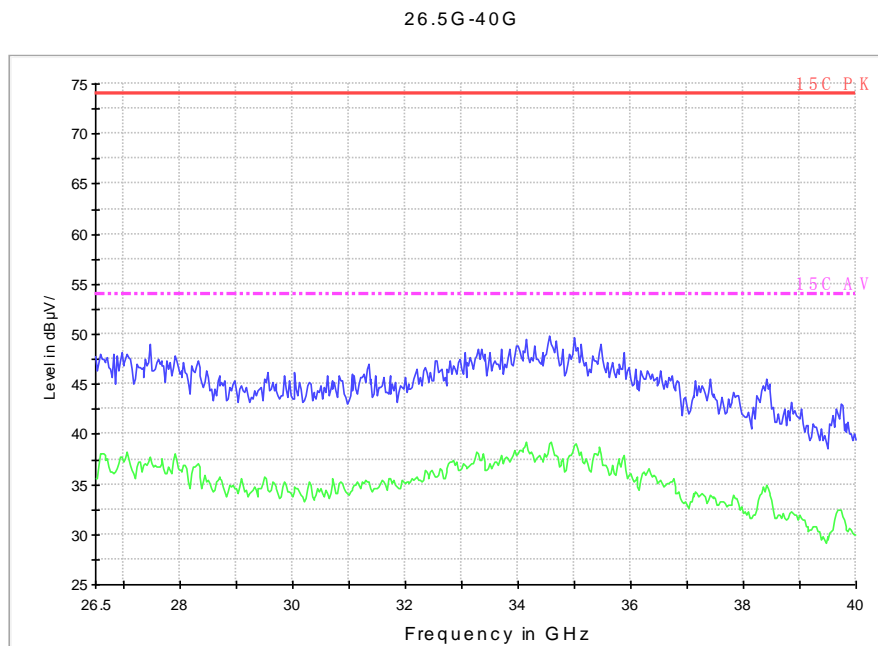
**Fig. 55 Radiated Spurious Emission (802.11n-HT20, ch48, 3 GHz-6 GHz)**



**Fig. 56 Radiated Spurious Emission (802.11n-HT20, ch48, 6 GHz-18 GHz)**

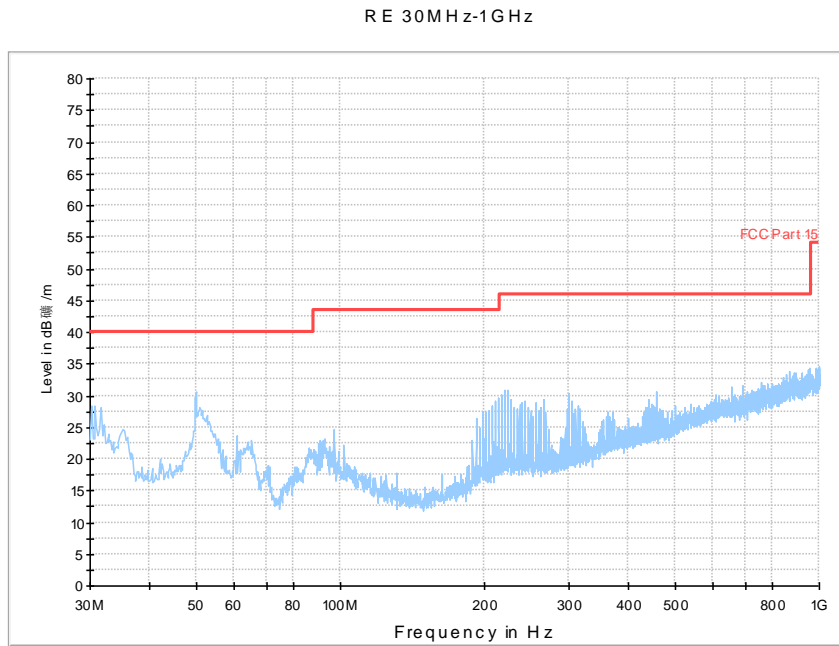


**Fig. 57 Radiated Spurious Emission (802.11n-HT20, ch48, 18 GHz-26.5 GHz)**

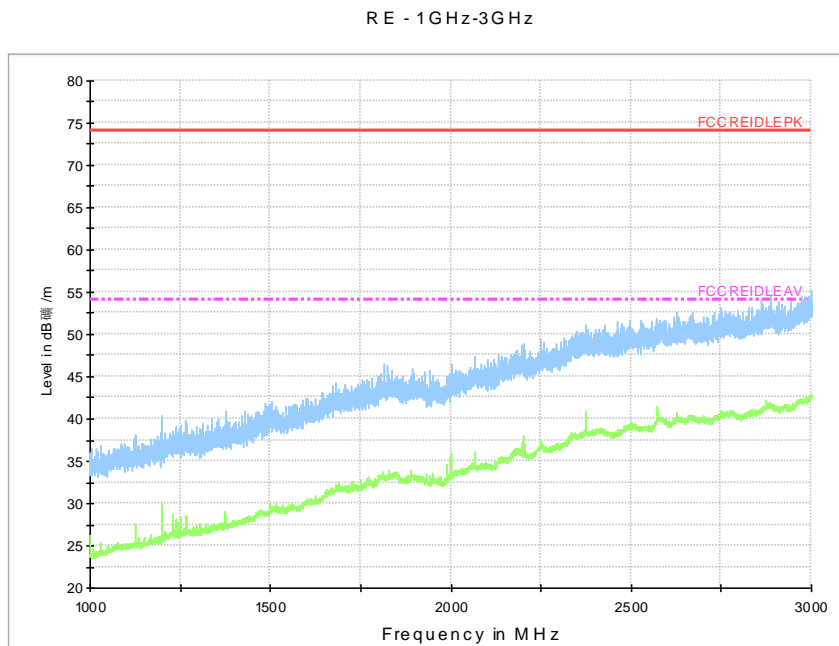


**Fig. 58 Radiated Spurious Emission (802.11n-HT20, ch48, 26.5 GHz-40 GHz)**

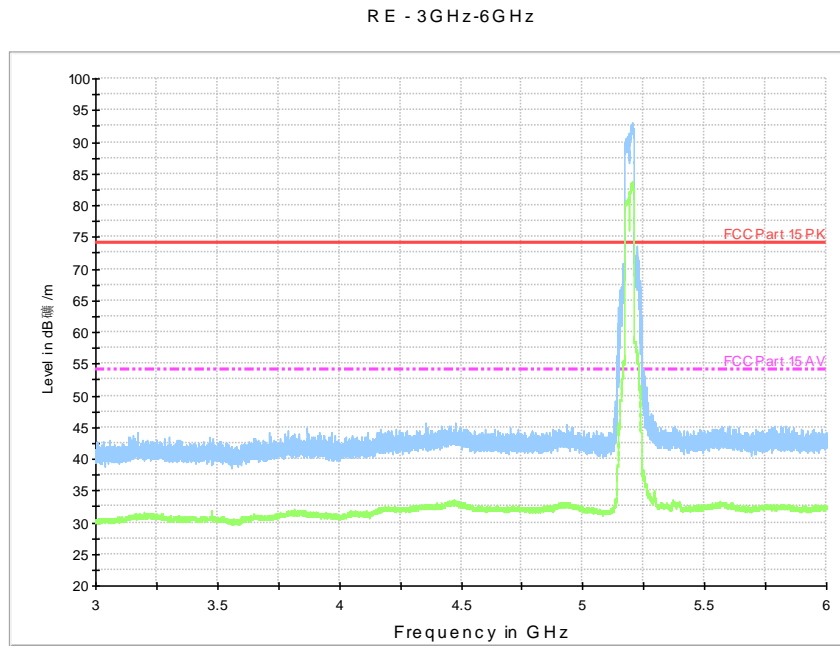




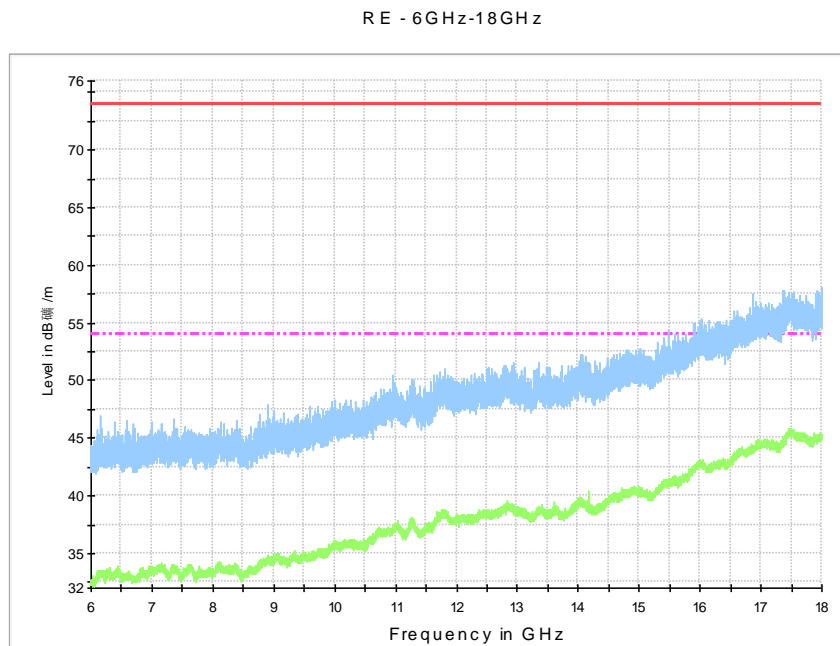
**Fig. 59 Radiated Spurious Emission (802.11n-HT40, ch38, 30 MHz-1 GHz)**



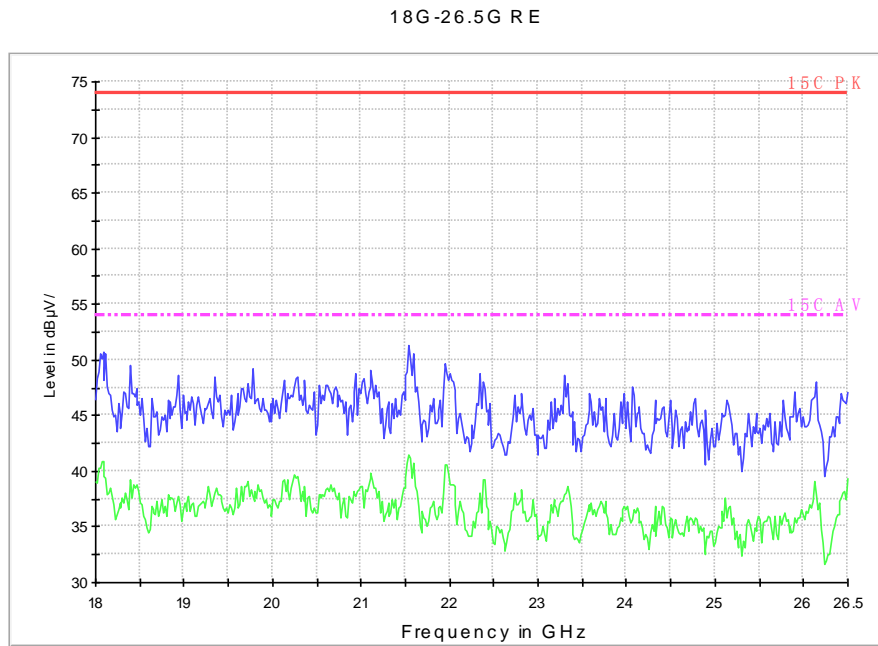
**Fig. 60 Radiated Spurious Emission (802.11n-HT40, ch38, 1 GHz-3 GHz)**



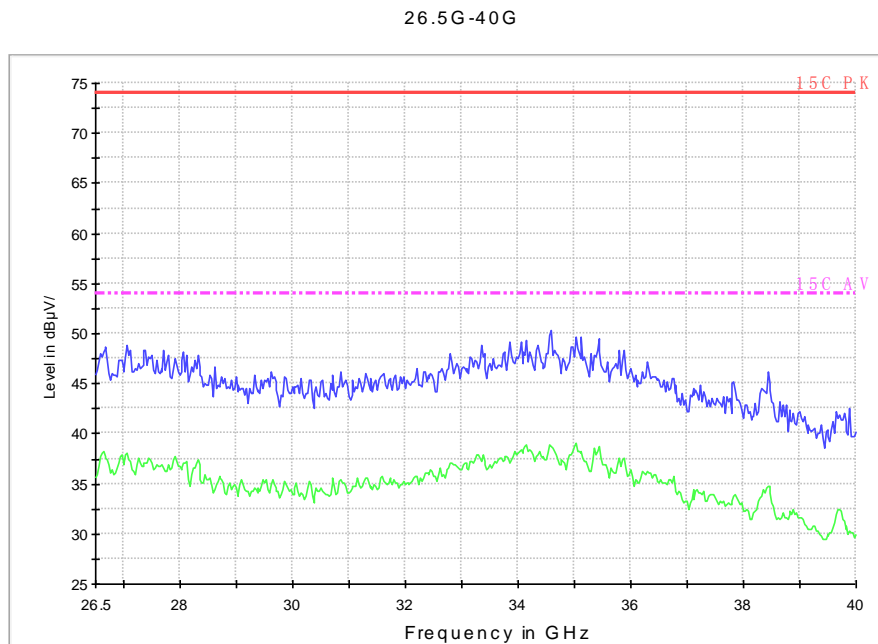
**Fig. 61 Radiated Spurious Emission (802.11n-HT40, ch38, 3 GHz-6 GHz)**



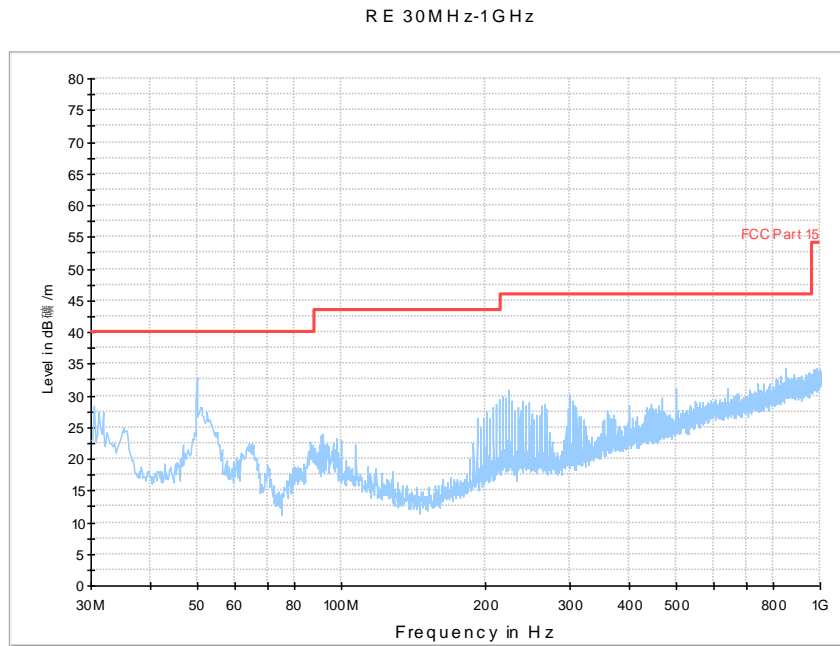
**Fig. 62 Radiated Spurious Emission (802.11n-HT40, ch38, 6 GHz-18 GHz)**



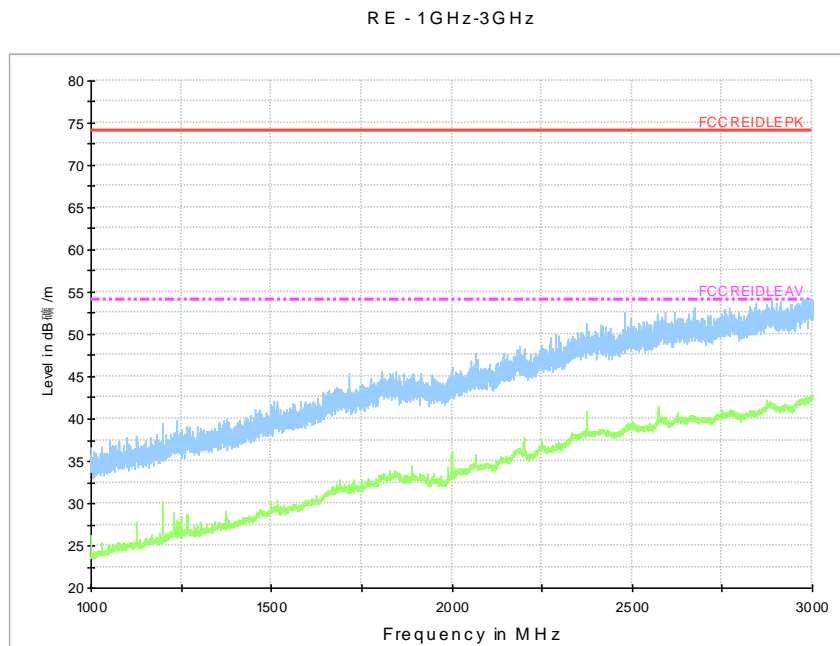
**Fig. 63 Radiated Spurious Emission (802.11n-HT40, ch38, 18 GHz-26.5 GHz)**



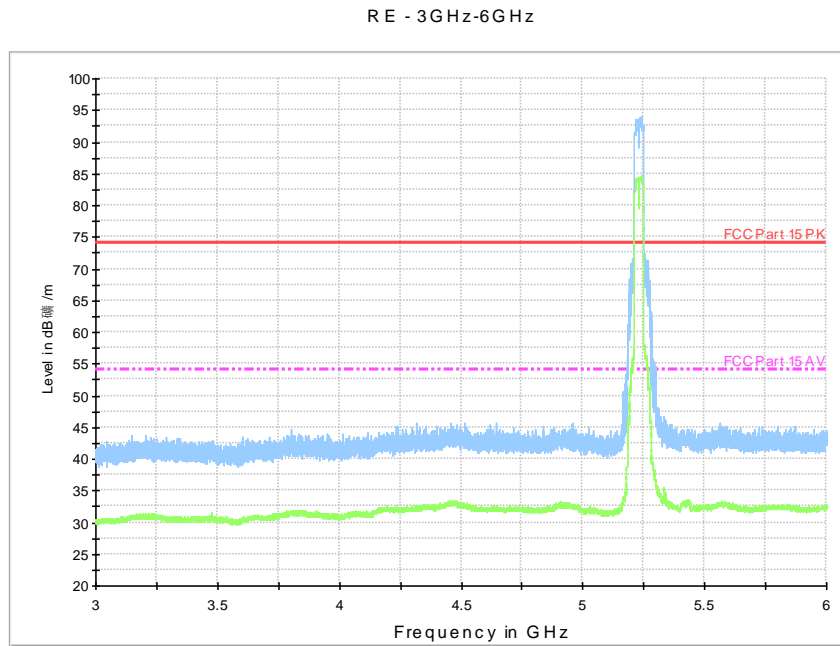
**Fig. 64 Radiated Spurious Emission (802.11n-HT40, ch38, 26.5 GHz-40 GHz)**



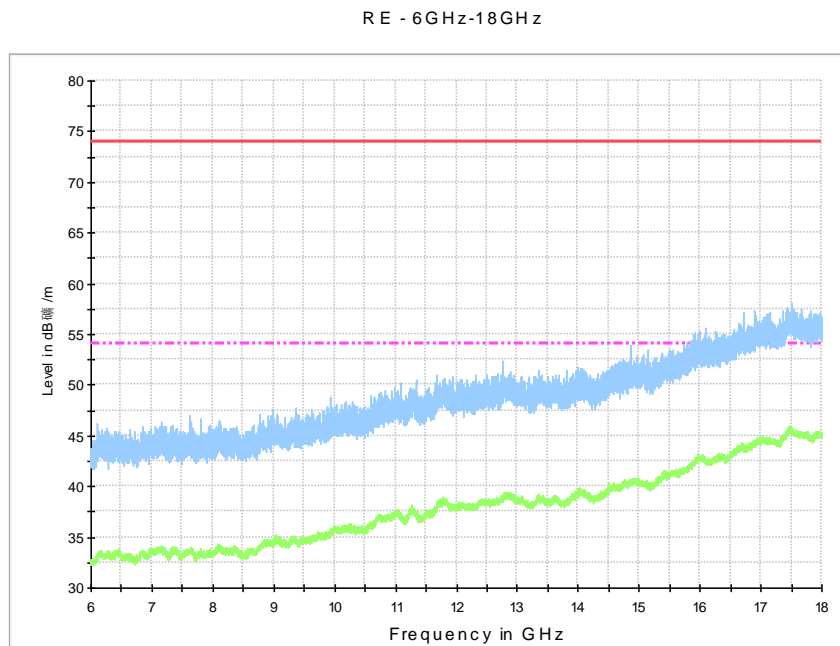
**Fig. 65 Radiated Spurious Emission (802.11n-HT40, ch46, 30 MHz-1 GHz)**



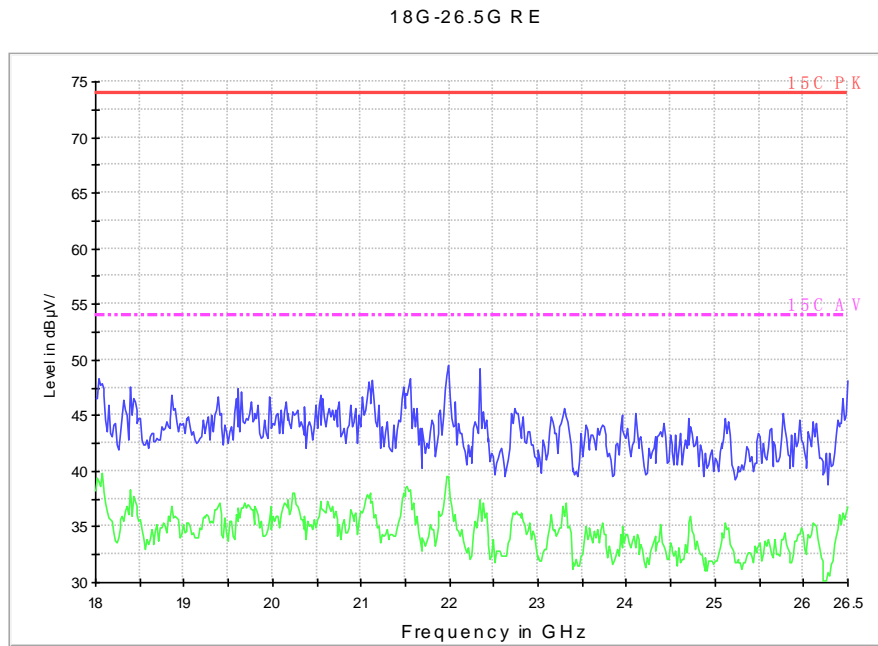
**Fig. 66 Radiated Spurious Emission (802.11n-HT40, ch46, 1 GHz-3 GHz)**



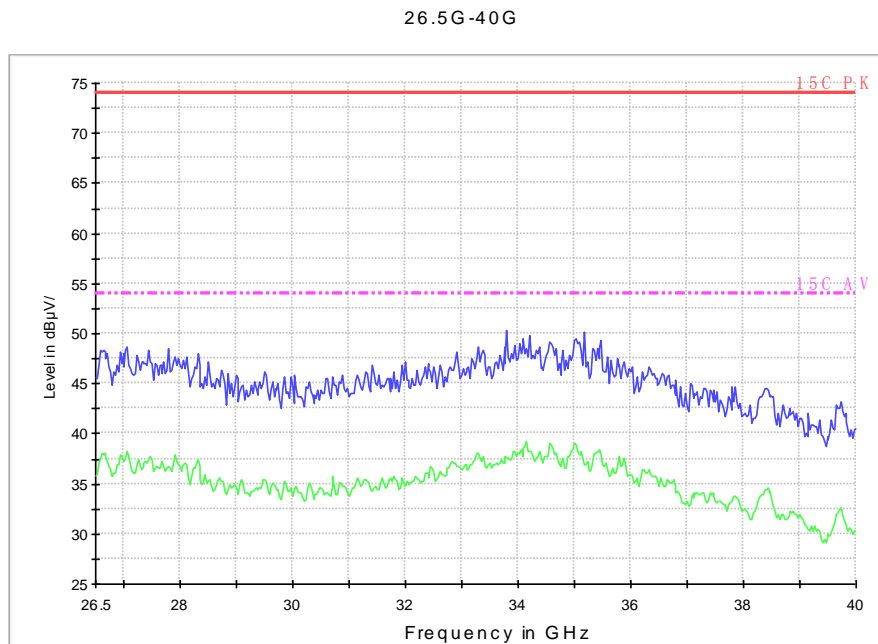
**Fig. 67 Radiated Spurious Emission (802.11n-HT40, ch46, 3 GHz-6 GHz)**



**Fig. 68 Radiated Spurious Emission (802.11n-HT40, ch46, 6 GHz-18 GHz)**



**Fig. 69 Radiated Spurious Emission (802.11n-HT40, ch46, 18 GHz-26.5 GHz)**



**Fig. 70 Radiated Spurious Emission (802.11n-HT40, ch46, 26.5 GHz-40 GHz)**

### A.7. RX Spurious Emissions Radiated < 30MHz

**Measurement Limit:**

Frequency (MHz)	Field strength(dB $\mu$ V/m)	Measurement distance
30 - 88	30.0	10
88 - 216	33.5	10
216 - 960	36.0	10
Above 960	54.0	3

**Measurement uncertainty:**

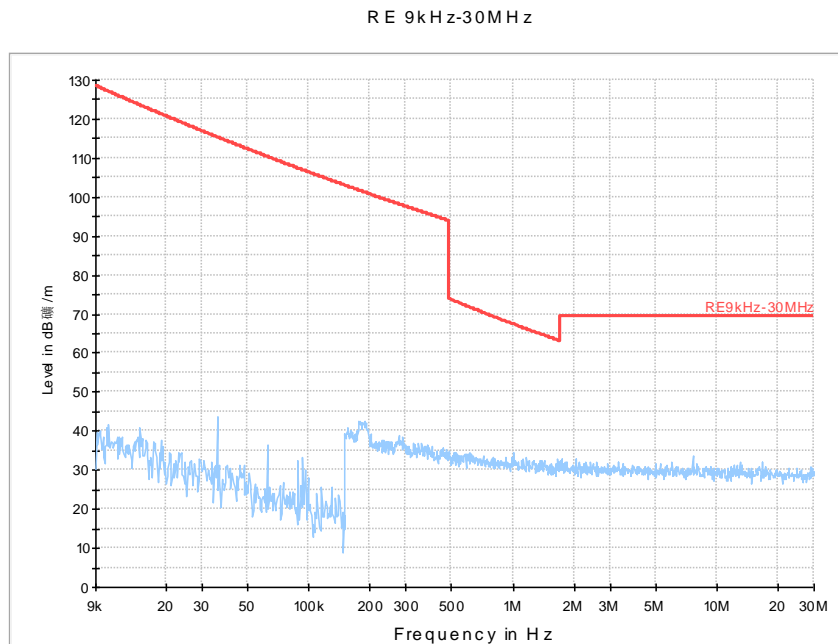
Expanded measurement uncertainty for this test item is U =2.6dB, k=2.

**Measurement Results:**

Mode	Frequency Range	Test Results	Conclusion
IDLE	9 kHz ~30 MHz	Fig.71	P

**Conclusion: PASS**

Test graphs as below:



**Fig. 71 RX Radiated Spurious Emission**

### A.8. Spurious Emission Conducted < 30MHz

**Test Condition:**

Voltage (V)	Frequency (Hz)
110	60

**Measurement uncertainty:**

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig. 72	Fig. 73	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.72	Fig.73	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to KDB 789033

**Conclusion: PASS**

**Test graphs as below:**



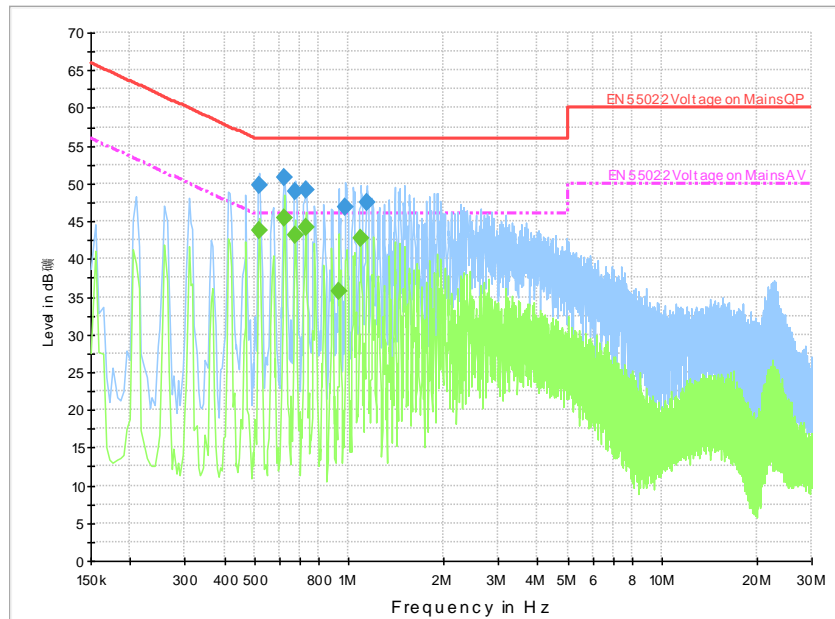


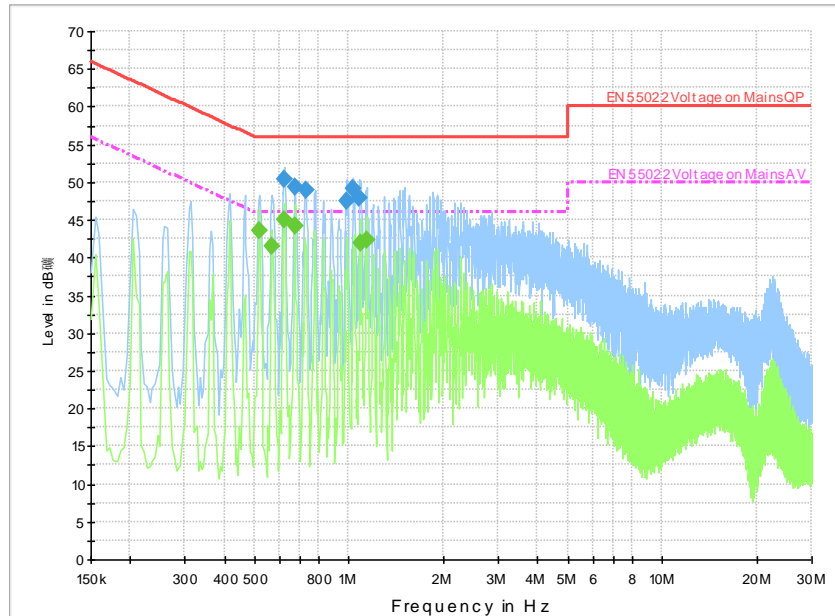
Fig. 72 Conducted Spurious Emission(802.11a, ch40, TX)

Measurement Result:

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.519001	49.9	GND	N	9.9	6.1	56.0
0.622501	50.7	GND	N	9.9	5.3	56.0
0.676501	48.9	GND	N	9.9	7.1	56.0
0.726001	49.1	GND	N	9.9	6.9	56.0
0.978001	46.8	GND	N	9.9	9.2	56.0
1.135501	47.5	GND	N	9.9	8.5	56.0

Measurement Result:

Frequency (MHz)	CAverage (dB $\mu$ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.519001	43.8	GND	N	9.9	2.2	46.0
0.622501	45.3	GND	N	9.9	0.7	46.0
0.672001	43.2	GND	N	9.9	2.8	46.0
0.726001	44.2	GND	N	9.9	1.8	46.0
0.928501	35.8	GND	N	9.9	10.2	46.0
1.090501	42.7	GND	N	9.9	3.3	46.0



**Fig. 73 Conducted Spurious Emission(802.11a, ch40, IDLE)**

Measurement Result:

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.622501	50.5	GND	N	9.9	5.5	56.0
0.672001	49.3	GND	N	9.9	6.7	56.0
0.726001	48.9	GND	N	9.9	7.1	56.0
0.987001	47.4	GND	N	9.9	8.6	56.0
1.032001	49.1	GND	N	9.9	6.9	56.0
1.081501	48.0	GND	N	9.9	8.0	56.0

Measurement Result:

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.519001	43.5	GND	N	9.9	2.5	46.0
0.568501	41.5	GND	N	9.9	4.5	46.0
0.622501	44.9	GND	N	9.9	1.1	46.0
0.672001	44.1	GND	N	9.9	1.9	46.0
1.090501	41.8	GND	N	9.9	4.2	46.0
1.140001	42.3	GND	N	9.9	3.7	46.0

### A.9. Peak Excursion

#### Measurement Limit:

Standard	Limit (dB)
FCC 47 CFR Part 15.407	13

The measurement is made according to KDB 789033, the method SA-1 is used for PPSD measurement.

#### Measurement Uncertainty:

Measurement Uncertainty	0.75 dB
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#### Measurement Result:

##### 11a mode

Type	Peak Excursion					
	5180MHz (Ch36)		5200MHz (Ch40)		5240MHz (Ch48)	
Peak (dBm)	Fig.74	9.40	Fig.75	9.20	Fig.76	8.39
Average(dBm)	Fig.77	1.29	Fig.78	0.61	Fig.79	-0.68
Result (dB)	8.11		8.59		9.07	

##### 11n-HT20 mode

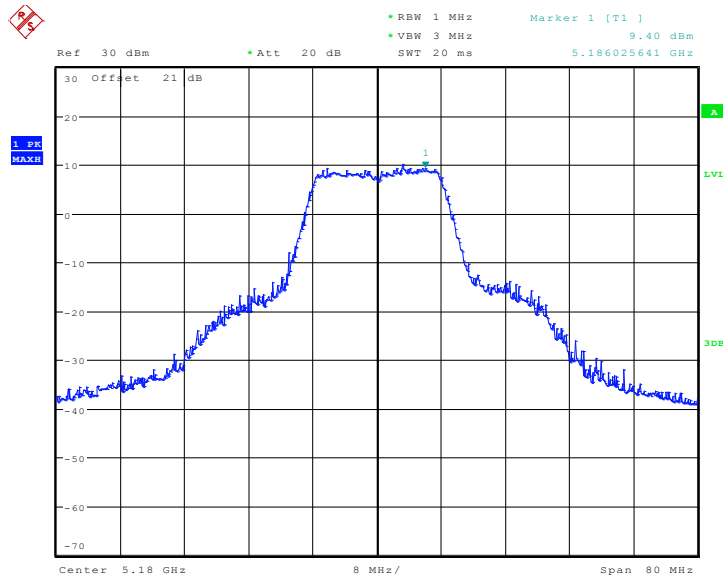
Type	Peak Excursion					
	5180MHz (Ch36)		5200MHz (Ch40)		5240MHz (Ch48)	
Peak (dBm)	Fig.80	8.64	Fig.81	7.36	Fig.82	6.79
Average(dBm)	Fig.83	0.19	Fig.84	-2.01	Fig.85	-2.10
Result (dB)	8.45		9.37		8.89	

##### 11n-HT40 mode

Type	Peak Excursion			
	5190MHz (Ch38)		5230MHz (Ch46)	
Peak (dBm)	Fig.86	4.84	Fig.87	4.49
Average(dBm)	Fig.88	-3.70	Fig.89	-3.67
Result (dB)	8.54		8.16	

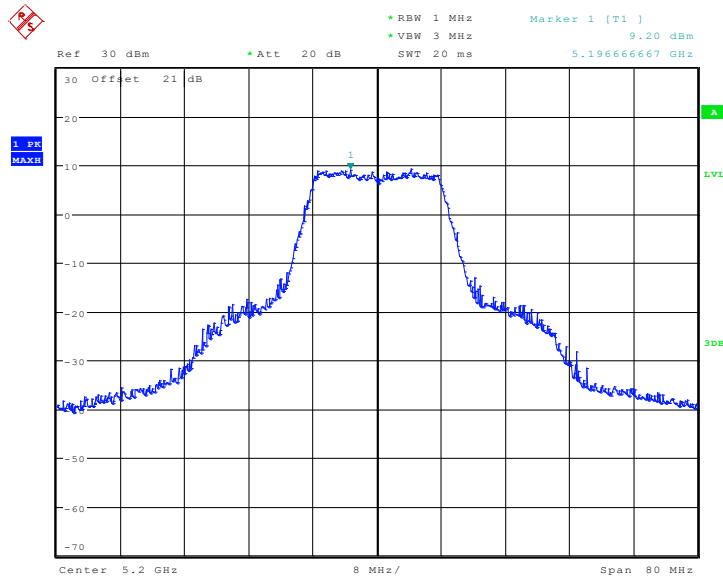
**Conclusion: PASS**

Test graphs as below:



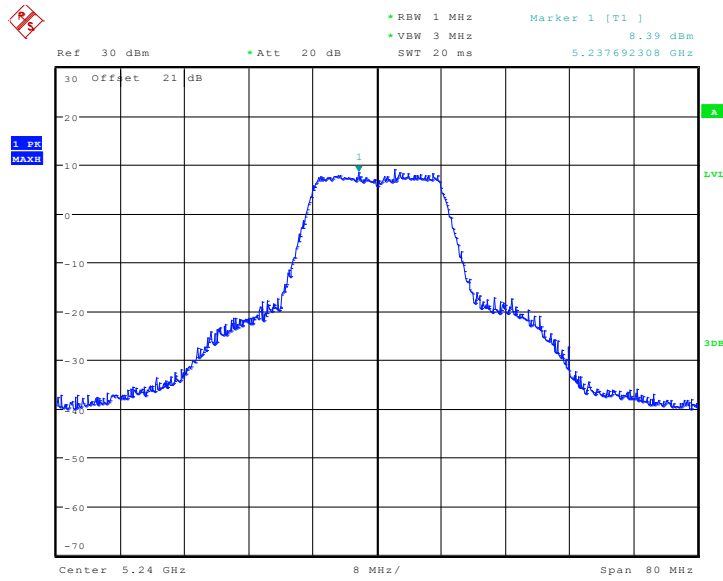
Date: 13.AUG.2013 18:31:36

**Fig. 74 Peak Excursions (802.11a, ch36, peak)**



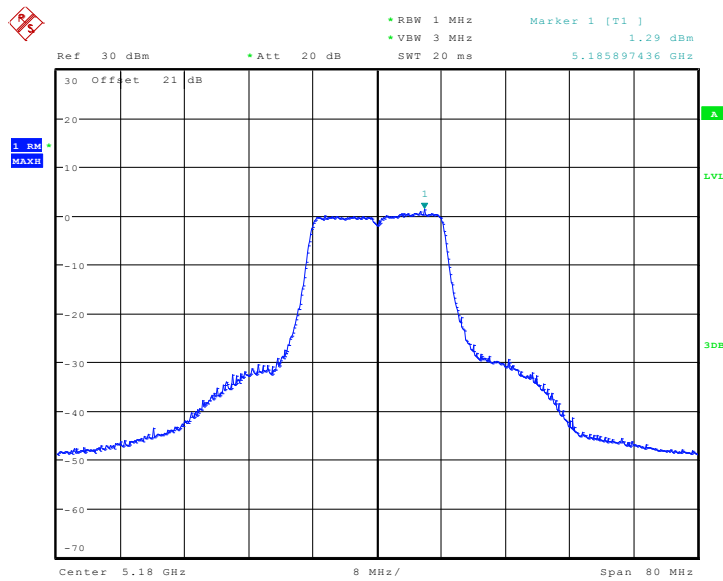
Date: 13.AUG.2013 18:33:08

**Fig. 75 Peak Excursions (802.11a, ch40, peak)**



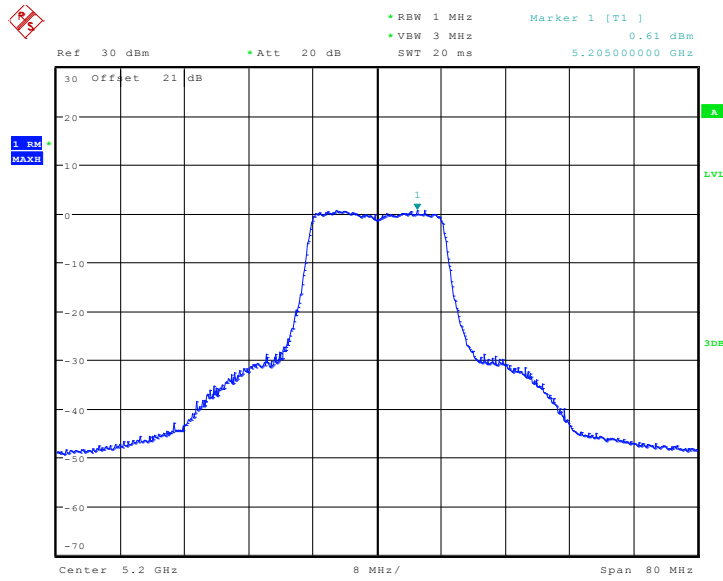
Date: 13.AUG.2013 18:33:50

**Fig. 76 Peak Excursions (802.11a, ch48, peak)**



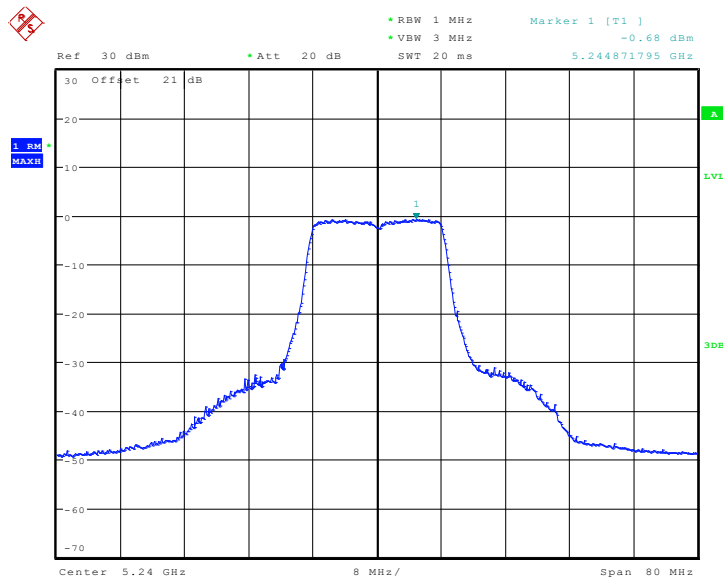
Date: 13.AUG.2013 18:35:15

**Fig. 77 Peak Excursions (802.11a, ch36, average)**



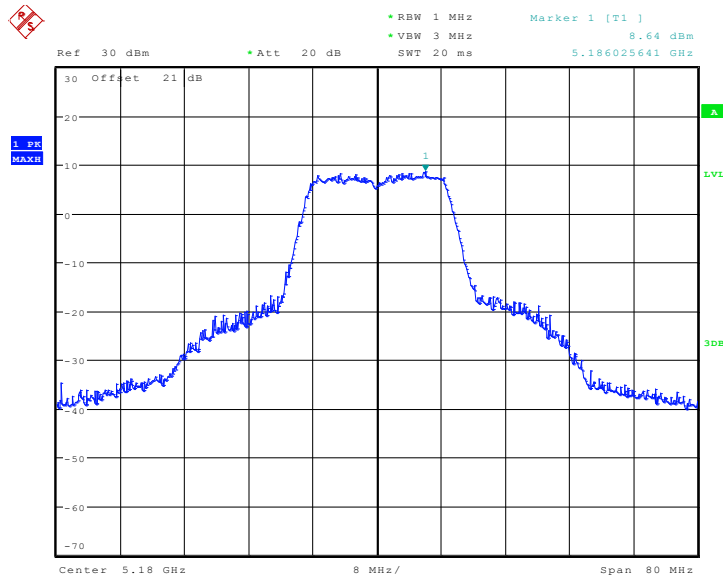
Date: 13.AUG.2013 18:32:50

**Fig. 78 Peak Excursions (802.11a, ch40, average)**



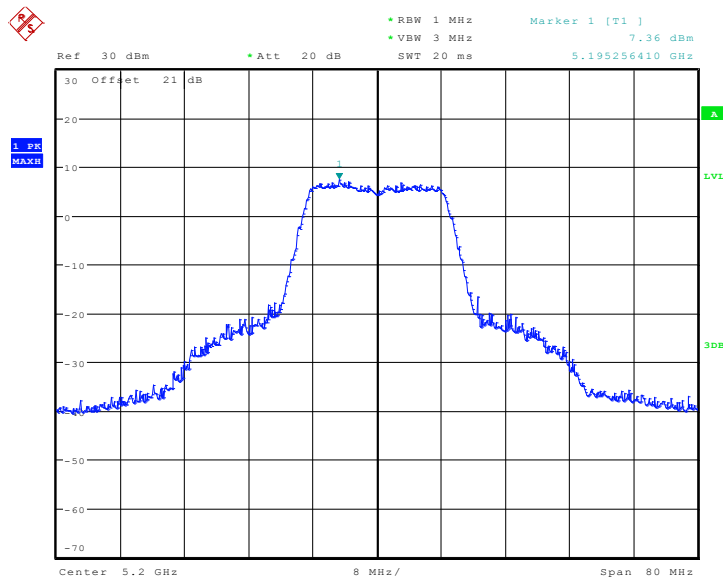
Date: 13.AUG.2013 18:34:35

**Fig. 79 Peak Excursions (802.11a, ch48, average)**



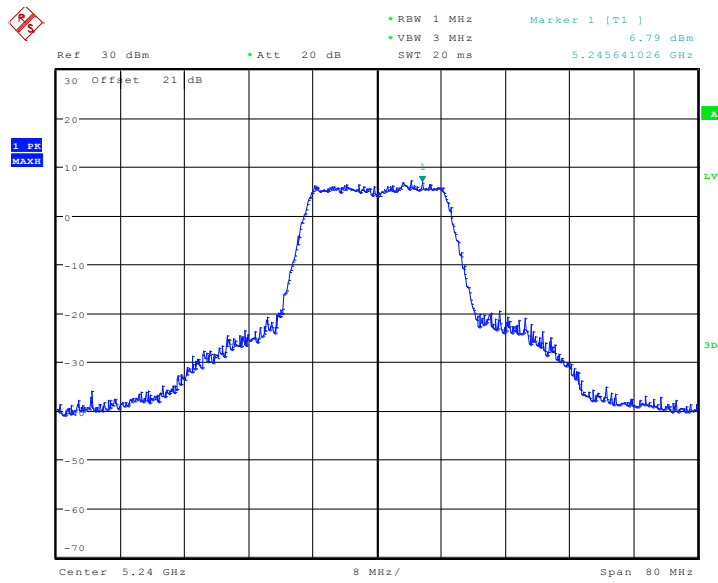
Date: 13.AUG.2013 18:37:02

**Fig. 80 Peak Excursions (802.11n-HT20, ch36, peak)**



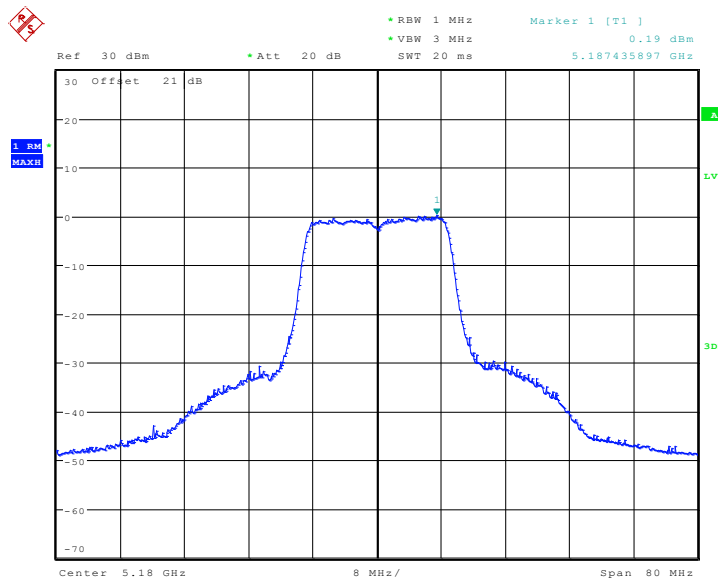
Date: 13.AUG.2013 18:38:01

**Fig. 81 Peak Excursions (802.11n-HT20, ch40, peak)**



Date: 13.AUG.2013 18:39:05

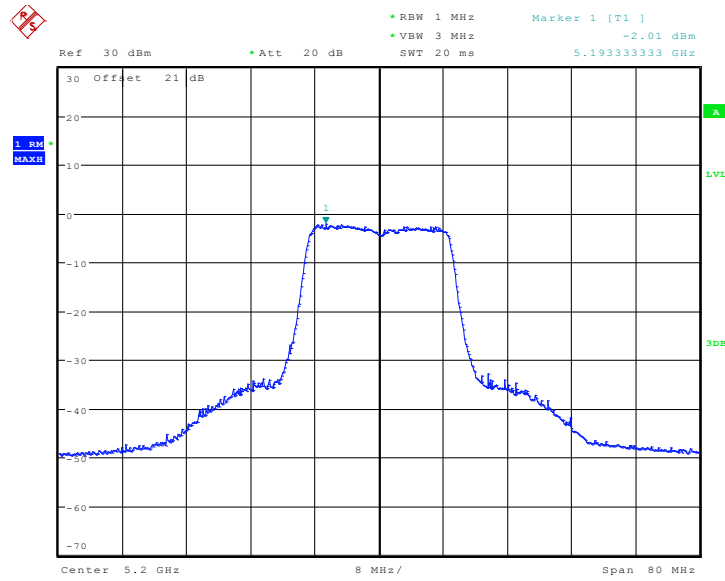
**Fig. 82 Peak Excursions (802.11n-HT20, ch48, peak)**



Date: 13.AUG.2013 18:35:50

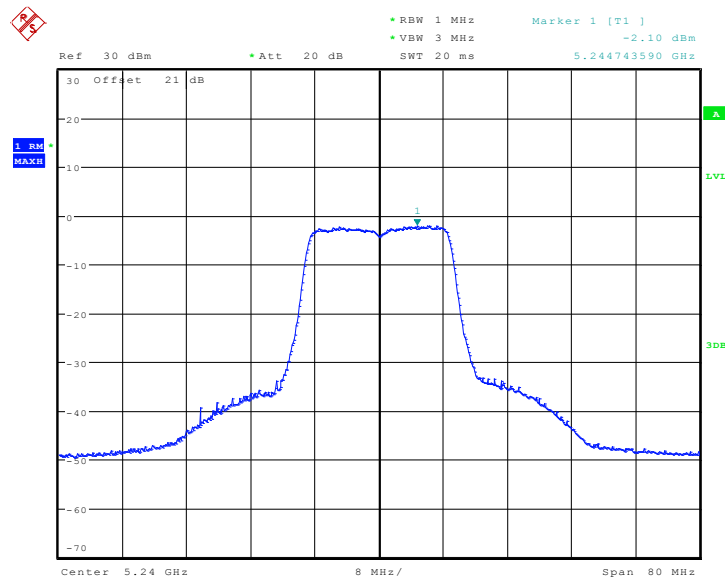
**Fig. 83 Peak Excursions (802.11n-HT20, ch36, average)**





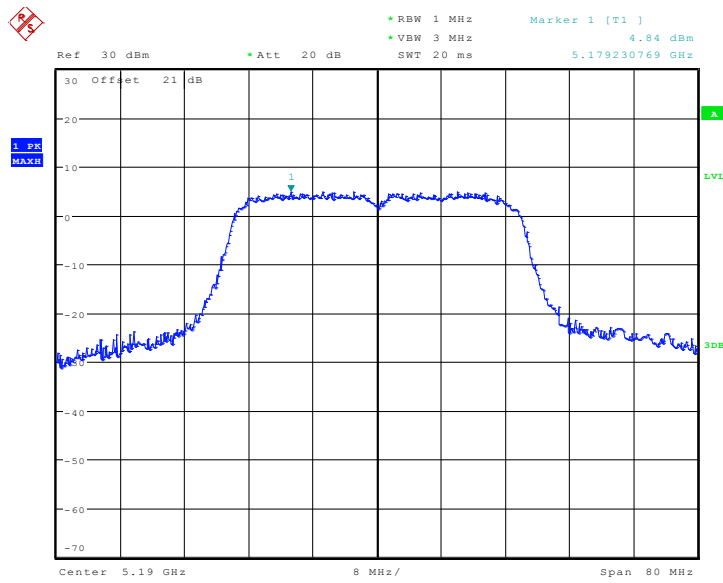
Date: 13.AUG.2013 18:38:18

**Fig. 84 Peak Excursions (802.11n-HT20, ch40, average)**



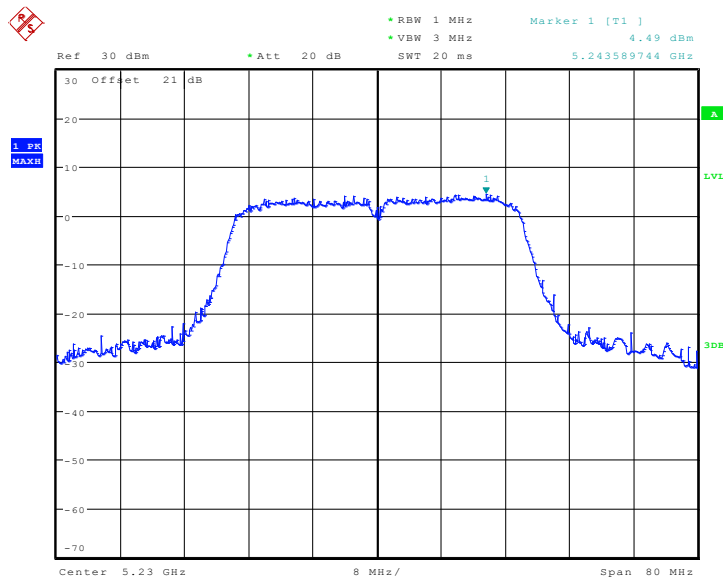
Date: 13.AUG.2013 18:38:45

**Fig. 85 Peak Excursions (802.11n-HT20, ch48, average)**



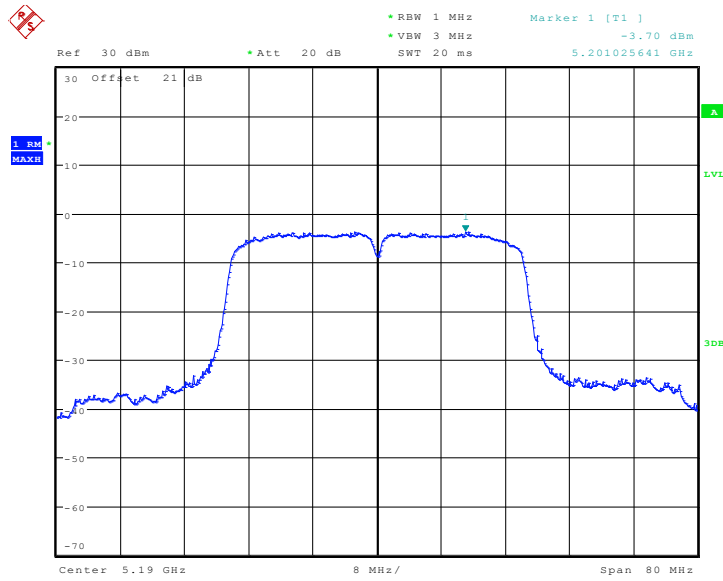
Date: 13.AUG.2013 18:40:01

**Fig. 86 Peak Excursions (802.11n-HT40, ch38, peak)**



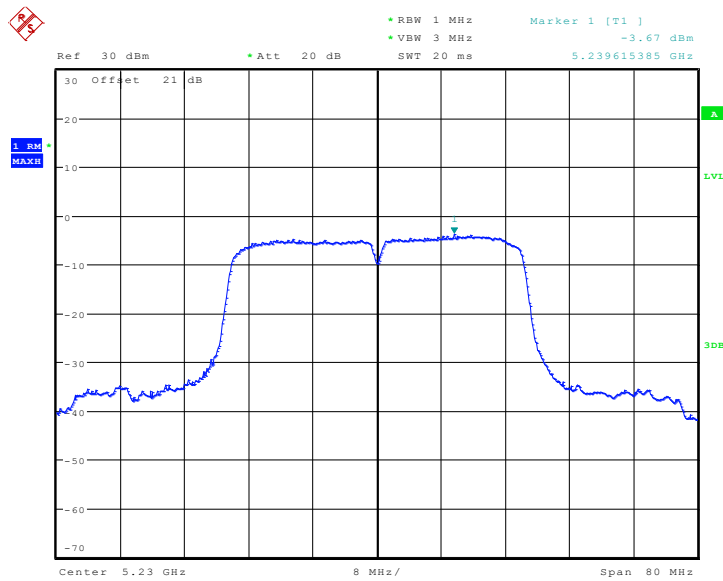
Date: 13.AUG.2013 18:41:18

**Fig. 87 Peak Excursions (802.11n-HT40, ch46, peak)**



Date: 13.AUG.2013 18:40:22

**Fig. 88 Peak Excursions (802.11n-HT40, ch38, average)**



Date: 13.AUG.2013 18:41:03

**Fig. 89 Peak Excursions (802.11n-HT40, ch46, average)**

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