



**FCC PART 15
TEST REPORT
No. 2013WLN0840**

for

Sony Mobile Communications AB

GSM/WCDMA/LTE mobile phone

Type: PM-0762-BV

FCC ID: PY7PM-0762

With

Hardware Version: AP1

Software Version: 19.0.A.0.250

Issued Date: 2014-01-15

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.

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1. TEST LATORATORY

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
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1.2. Project data

Testing Start Date: 2013-12-28
Testing End Date: 2014-01-07

1.3. Signature



Xu Zhongfei
(Prepared this test report)



Jiang Afang
(Reviewed this test report)



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

2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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Country: China
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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	GSM 850/900/1800/1900 quad bands, GPRS, EDGE, WCDMA FDD bands 1/5/8, HSDPA, HSUPA, LTE FDD bands 1/3/5/7/8/20 Bluetooth (EDR and 4.0), ANT+, WLAN (802.11 a/b/g/n), NFC, FM, GPS mobile phone
Type	PM-0762-BV
FCC ID	PY7PM-0762
WLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
MAX Conducted Power	10.78dBm(OFDM)
MAX Radiated Power	12.85dBm(OFDM)
Extreme Temperature	-20/+55°C
Extreme vol. Limits	3.5VDC to 4.1VDC (nominal: 3.7VDC)

Note: Photographs of EUT are shown in ANNEX C of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	IMEI	HW Version	SW Version
EUT1	CB512686FD	004402451819274	AP1	19.0.A.0.250
EUT2	CB512686RD	004402451819183	AP1	19.0.A.0.250

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Travel Charger	AC-0400-EU	4413W 18 511285
AE2	USB Cable	AI-0401	131307D20BE8904

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

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM/WCDMA/LTE Mobile Phone with integrated antenna and inbuilt battery.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD bands 1/5/8 and LTE FDD bands 1/3/5/7/8/20. It supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33. The HSDPA and HSUPA (Cat 6) features are also supported.

It has MP3, camera, USB memory, Mobile High-Definition Link (MHL), FM radio, GPS receiver, NFC, Bluetooth (EDR and Bluetooth 4.0), ANT+, WLAN (802.11 a/b/g/n) and Wi-Fi hotspot functions. For WLAN 802.11n, it supports 20MHz and 40MHz bandwidths on both 2.4GHz band and 5GHz/5.8GHz band.

It includes normal option: USB cable.

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

Samples undergoing test were selected by the client.

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, 2012
UNII: KDB 789033	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E	April, 2013
RSS-GEN	Spectrum Management and Telecommunications - Radio Standards Specification General Requirements and Information for the Certification of Radio communication Equipment	Issue 3
RSS-210	Spectrum Management and Telecommunications - Radio Standards Specification Low-power License-exempt Radio communication Devices (All Frequency Bands): Category I Equipment	Issue 8

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	A9	P
Power Spectral Density	15.407	A9	P
Occupied 26dB Bandwidth	15.403	A9	P
Band edge compliance	15.407	A9	P
Transmitter spurious emissions radiated	15.407	A9	P
Spurious emissions radiated < 30 MHz	15.407	A9	P
Spurious emissions conducted < 30 MHz	15.407	7.2.2	P
Peak Excursion	15.407	A9	P
Frequency Stability	15.407	A9	NA
Transmit Power Control	15.407	A9	NA

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/manufacturer 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.

This report only deals with the WLAN function among the features described in section 3.

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	3.7V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-08	2014-07-07
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-29	2014-10-28
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-4-15	2014-08-12
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

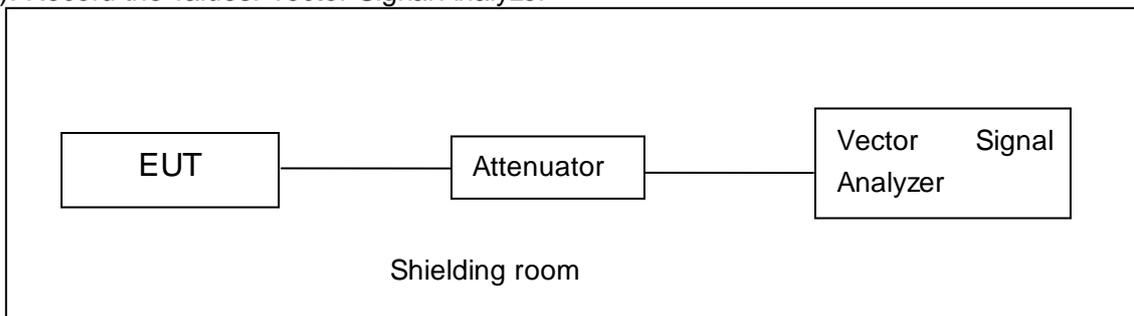
No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESCI	100344	Rohde & Schwarz	2013-11-8	2014-11-7
2	Test Receiver	ESCI 7	100948	Rohde & Schwarz	2013-07-19	2014-07-18
3	BiLog Antenna	VULB9163	9163-514	Schwarz beck	2011-11-11	2014-11-10
4	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2011-2-2	2014-2-1
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-7-1	2014-06-30
6	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2011-12-21	2014-12-20
7	Semi-anechoic chamber	/	CT000332-1074	Franconia 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

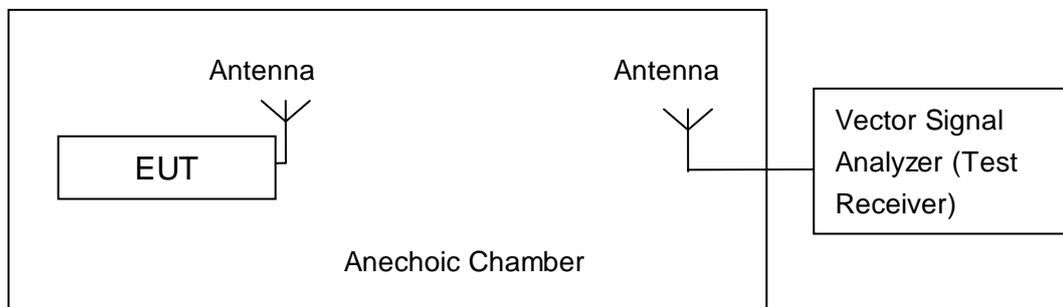


A.1.2. Radiated Emission Measurements

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 output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	17dBm or 4+10logB
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

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

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

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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A.2.1. Output Power Verification

This test is only for mode verification, and the selected mode will be used for the future measurement.

Measurement Results:

OFDM/a mode	Maximum Conducted Power (dBm)							
data rate (Mbps)	6	9	12	18	24	36	48	54
36 (5180 MHz)	9.59	9.50	9.44	9.34	9.17	8.99	8.77	8.69

OFDM/n-HT20 mode	Maximum Conducted Power (dBm)							
data rate (Mbps)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
36 (5180 MHz)	9.62	9.48	9.36	9.15	8.98	8.86	8.77	6.83

OFDM/n-HT40 mode	Maximum Conducted Power (dBm)							
data rate (Index)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
38 (5190 MHz)	9.35	9.15	8.95	8.75	8.45	8.21	8.14	8.05

Selected data rate for all measurement:

OFDM /a-mode: 6Mbps

OFDM /n-HT20 mode: MCS0

OFDM /n-HT40 mode: MCS0

A.2.2. Antenna Gain

The antenna gain of the complete system is calculated by the difference of radiated power and the conducted power of the EUT.

Band 5150MHz to 5350MHz,

Test	Channel					
	Low (5180MHz)	Middle (5200MHz)	High (5240MHz)	Low (5260MHz)	Middle (5280MHz)	High (5320MHz)
Tnom,Vnom						
Conducted Power(dBm)	14.80	15.02	14.81	15.38	15.98	15.62
Radiated Power(dBm)	17.20	17.54	17.44	17.21	18.09	17.69
Gain(dBi)	2.40	2.52	2.63	1.83	2.11	2.07

Band 5470MHz to 5725MHz,

Test	Channel		
	Low(5500MHz)	Middle(5600MHz)	High(5700MHz)
Tnom,Vnom			
Conducted Power(dBm)	14.25	15.10	14.83
Radiated Power(dBm)	16.59	17.00	15.82
Gain(dBi)	2.34	1.90	0.99

Antenna Gain = Radiated value (with radiated sample) - Conducted values (with conducted samples)

A.2.3. Maximum Output Power

Measurement Results:

802.11a mode

Type	Test Result					
	5180MHz (Ch36)	5200MHz (Ch40)	5240MHz (Ch48)	5260MHz (Ch52)	5280MHz (Ch56)	5320 MHz (Ch64)
Conducted(dBm)	9.71	9.57	9.78	10.00	9.93	10.75
radiated(dBm)	12.11	12.09	12.41	11.83	12.04	12.82

Type	Test Result		
	5500MHz (Ch100)	5580MHz (Ch116)	5700MHz (Ch140)
conducted(dBm)	9.87	10.16	10.15
radiated(dBm)	12.21	12.06	11.14

802.11n-HT20 mode

Type	Test Result					
	5180MHz (Ch36)	5200MHz (Ch40)	5240MHz (Ch48)	5260MHz (Ch52)	5280MHz (Ch56)	5320 MHz (Ch64)
conducted(dBm)	9.64	9.60	9.81	10.04	9.97	10.78
radiated(dBm)	12.04	12.12	12.44	11.87	12.08	12.85

Type	Test Result		
	5500MHz (Ch100)	5580MHz (Ch116)	5700MHz (Ch140)
conducted(dBm)	9.91	10.22	10.19
radiated(dBm)	12.25	12.12	11.18

802.11n-HT40 mode

Type	Test Result			
	5190MHz (Ch38)	5230MHz (Ch46)	5270MHz (Ch55)	5310 MHz (Ch63)
conducted(dBm)	9.36	9.17	9.74	10.43
radiated(dBm)	11.76	11.80	11.57	12.50

Type	Test Result		
	5510MHz (Ch102)	5550MHz (Ch110)	5670MHz (Ch134)
conducted(dBm)	9.76	10.52	10.75
radiated(dBm)	12.10	12.42	11.74

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
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

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
802.11a	5180 MHz	-0.17	P
	5200 MHz	-0.46	P
	5240 MHz	-0.42	P
	5260 MHz	-0.17	P
	5280 MHz	-0.12	P
	5320 MHz	0.36	P
	5500 MHz	-0.52	P
	5580 MHz	-0.04	P
	5700 MHz	-0.15	P
802.11n HT20	5180 MHz	-0.67	P
	5200 MHz	-0.66	P
	5240 MHz	-0.58	P
	5260 MHz	-0.33	P
	5280 MHz	-0.69	P
	5320 MHz	0.33	P
	5580 MHz	-0.61	P
	5600 MHz	-0.16	P
	5700 MHz	-0.25	P
802.11n HT40	5190 MHz	-3.60	P
	5230 MHz	-3.40	P
	5270 MHz	-3.27	P
	5310 MHz	-2.60	P
	5510 MHz	-3.47	P
	5550 MHz	-3.01	P
	5670 MHz	-2.45	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

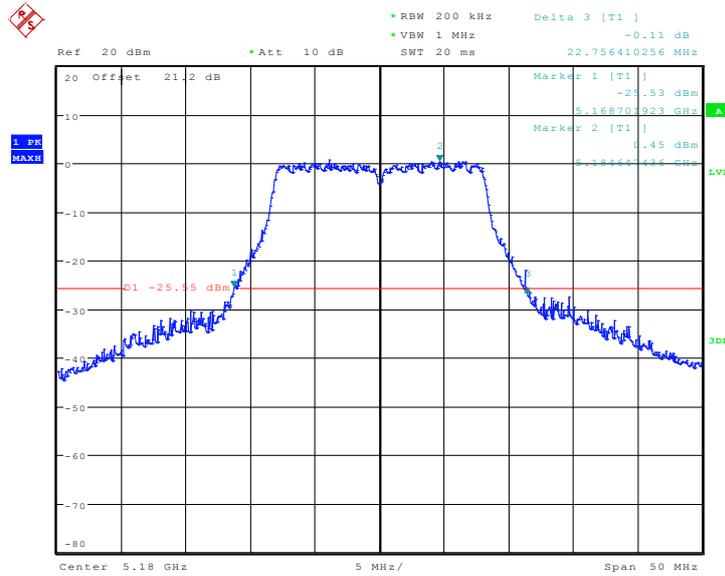
Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth (kHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.1	22756	P
	5200 MHz	Fig.2	22708	P
	5240 MHz	Fig.3	22436	P
	5260 MHz	Fig.4	22228	P
	5280 MHz	Fig.5	24022	P
	5320 MHz	Fig.6	23237	P
	5500 MHz	Fig.7	22756	P
	5580 MHz	Fig.8	22436	P
802.11n HT20	5700 MHz	Fig.9	22596	P
	5180 MHz	Fig.10	22997	P
	5200 MHz	Fig.11	22756	P
	5240 MHz	Fig.12	22837	P
	5260 MHz	Fig.13	22917	P
	5280 MHz	Fig.14	24471	P
	5320 MHz	Fig.15	23478	P
	5500 MHz	Fig.16	23077	P
802.11n HT40	5580 MHz	Fig.17	22676	P
	5700 MHz	Fig.18	22676	P
	5190 MHz	Fig.19	44712	P
	5230 MHz	Fig.20	47500	P
	5270 MHz	Fig.21	44199	P
	5310 MHz	Fig.22	45032	P
	5510 MHz	Fig.23	44391	P
5550 MHz	Fig.24	45353	P	
5670 MHz	Fig.25	44712	P	

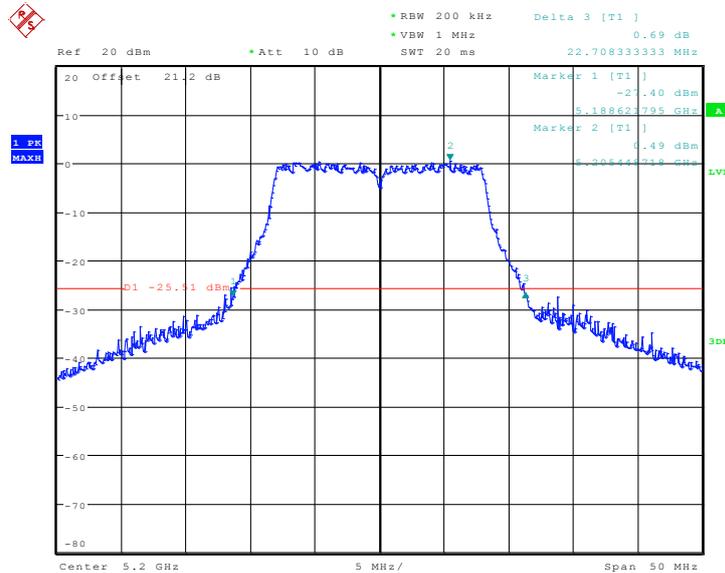
Conclusion: PASS

Test graphs as below:



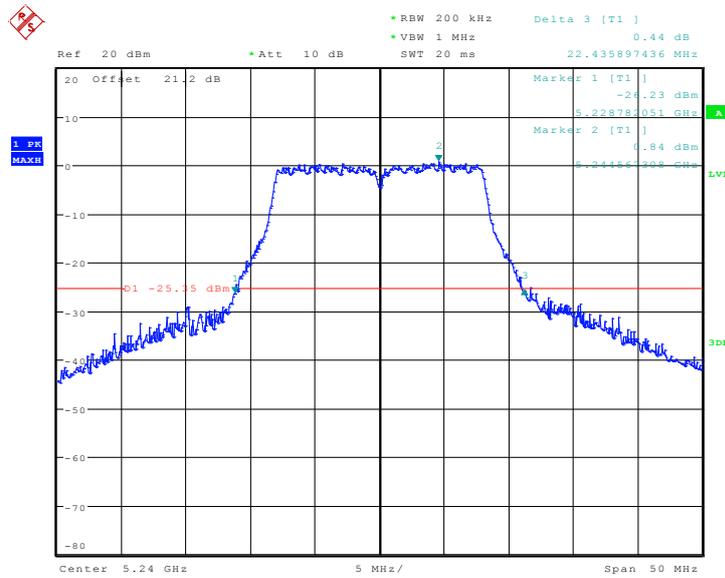
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Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)



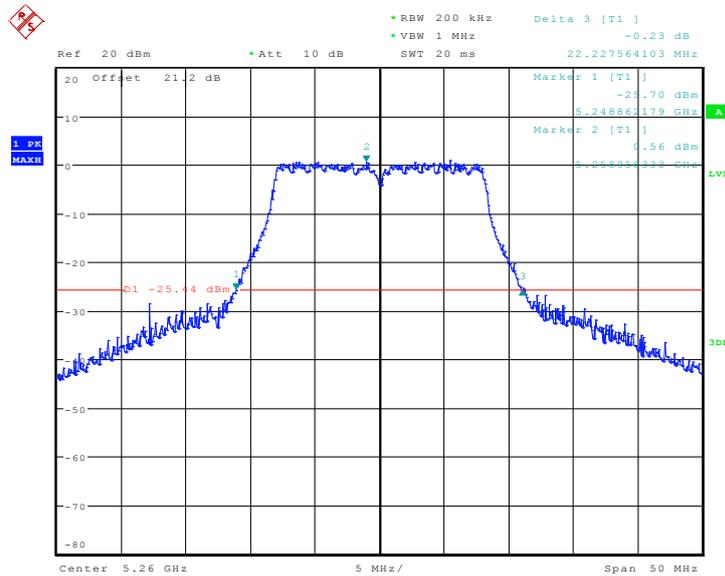
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Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)



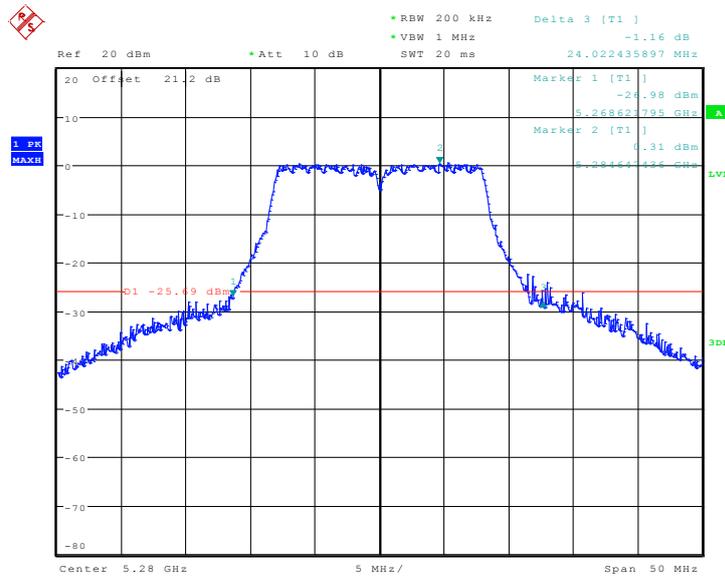
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Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)



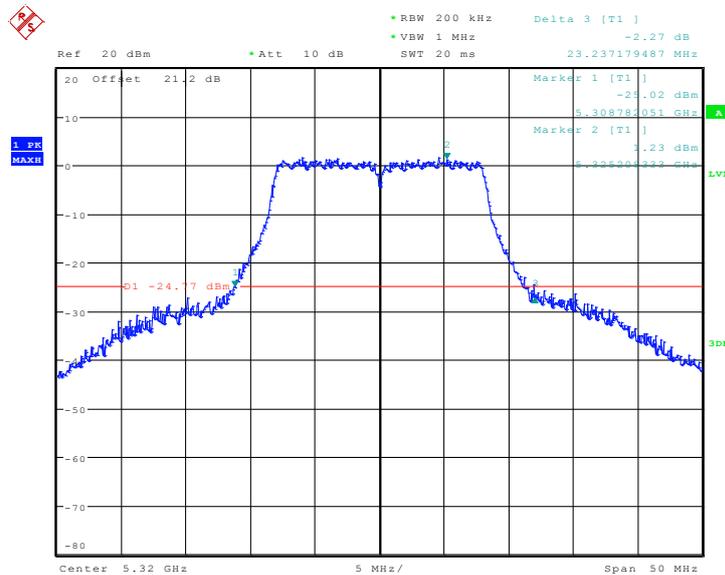
Date: 3.JAN.2014 13:27:40

Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)



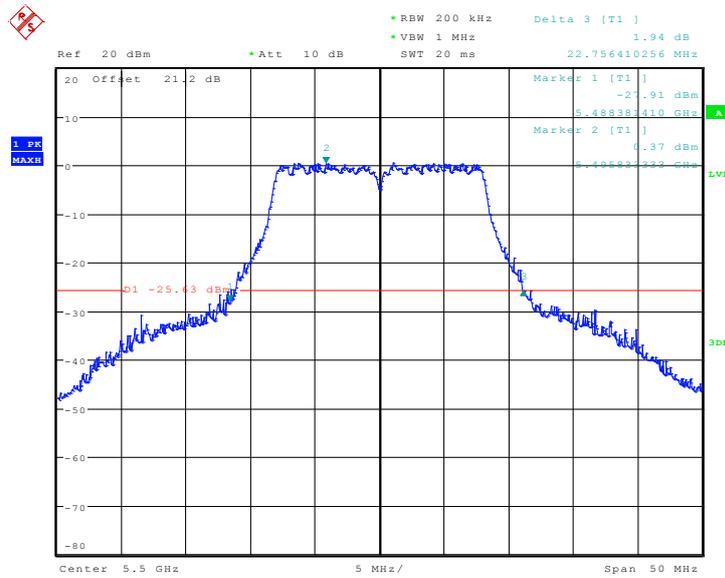
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Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)



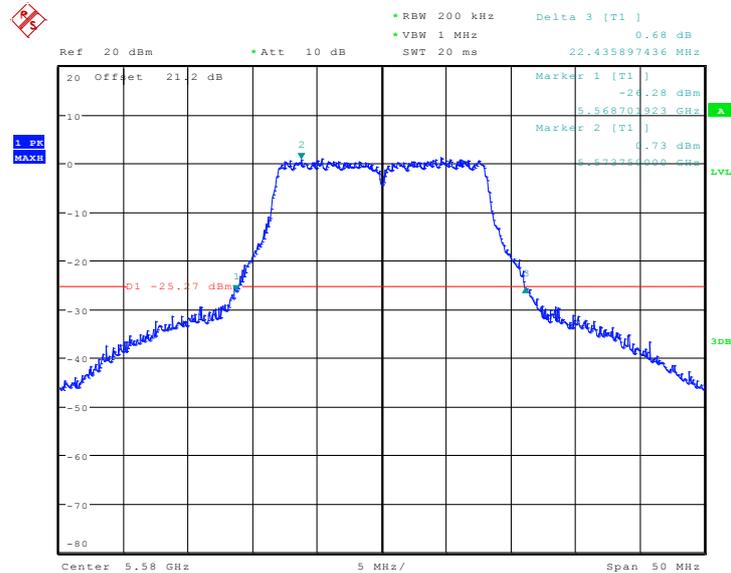
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Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



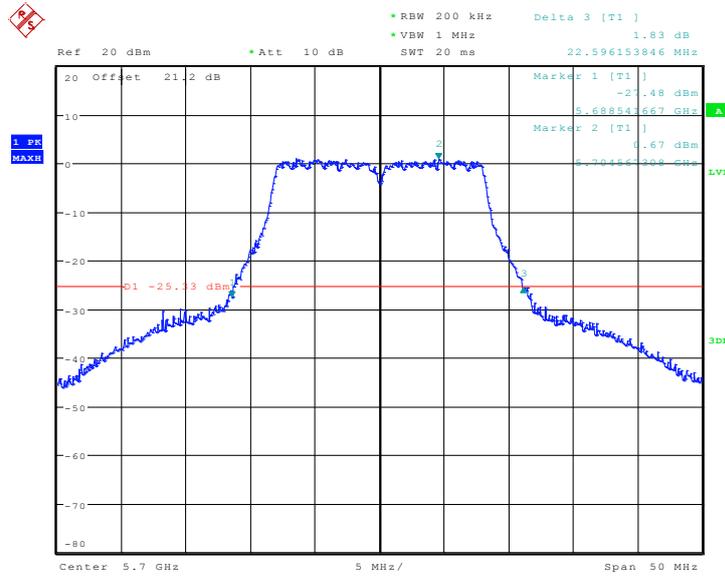
Date: 3.JAN.2014 13:30:00

Fig. 7 Occupied 26dB Bandwidth (802.11a, 5500MHz)



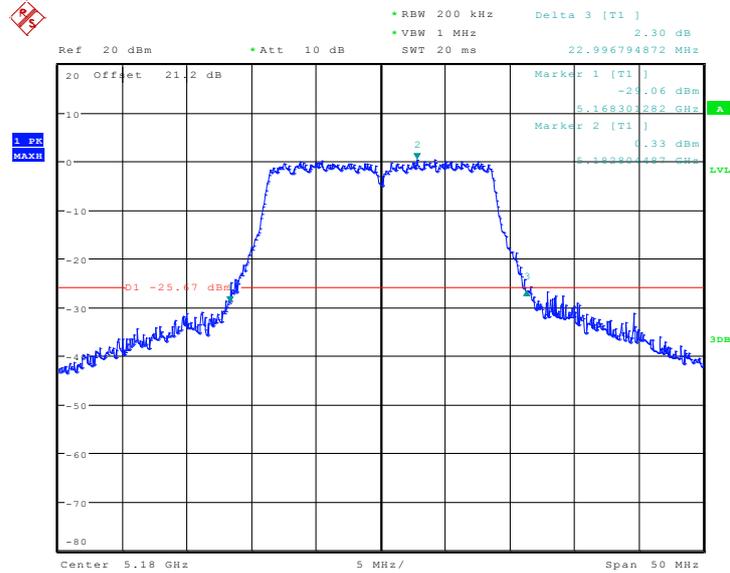
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Fig. 8 Occupied 26dB Bandwidth (802.11a, 5580MHz)



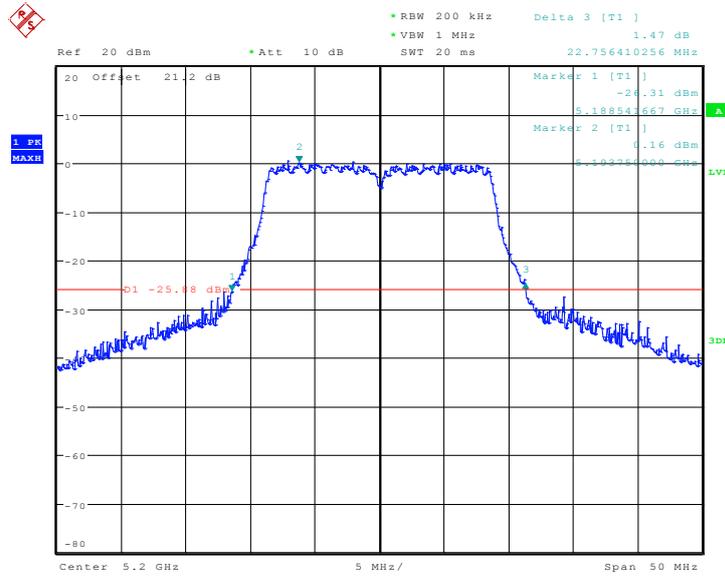
Date: 3.JAN.2014 13:31:59

Fig. 9 Occupied 26dB Bandwidth (802.11a, 5700MHz)



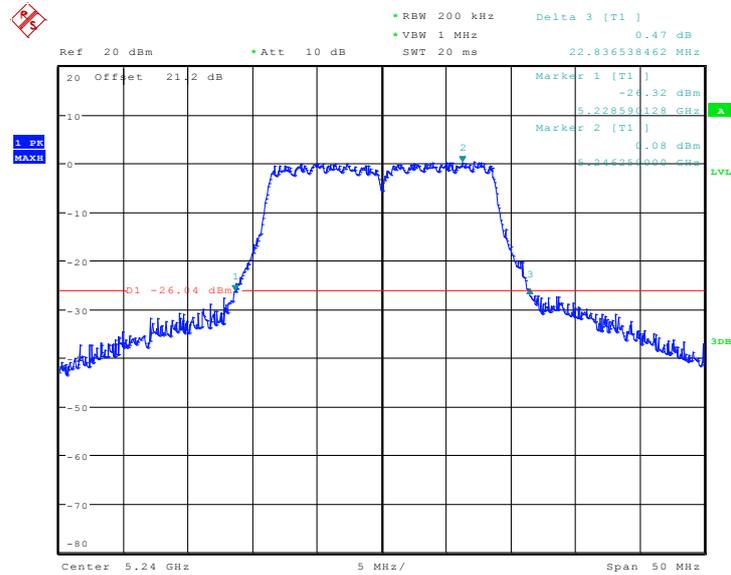
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Fig. 10 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)



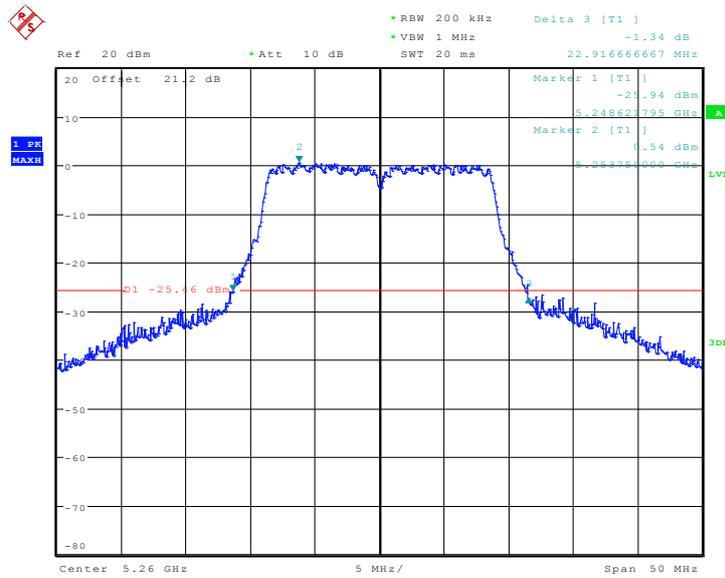
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Fig. 11 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)



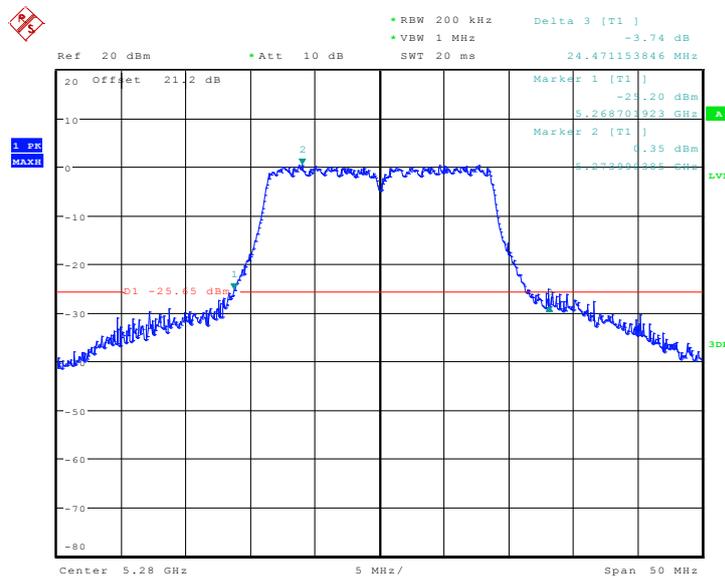
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Fig. 12 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)



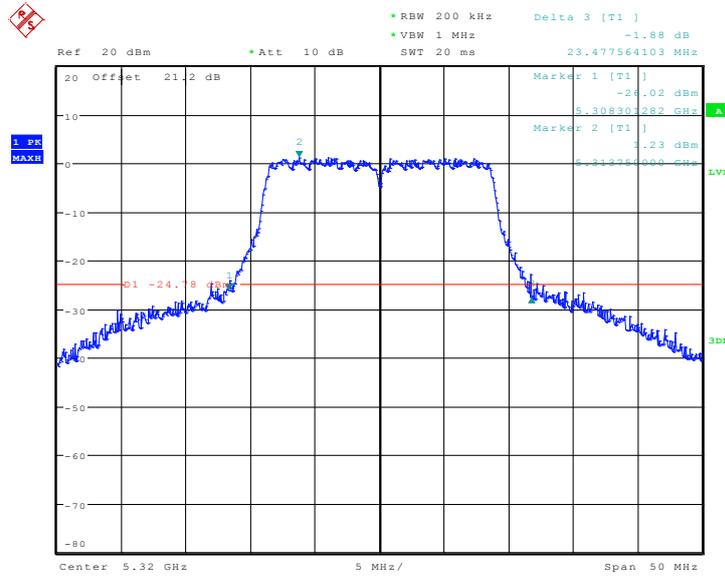
Date: 3.JAN.2014 13:37:20

Fig. 13 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)



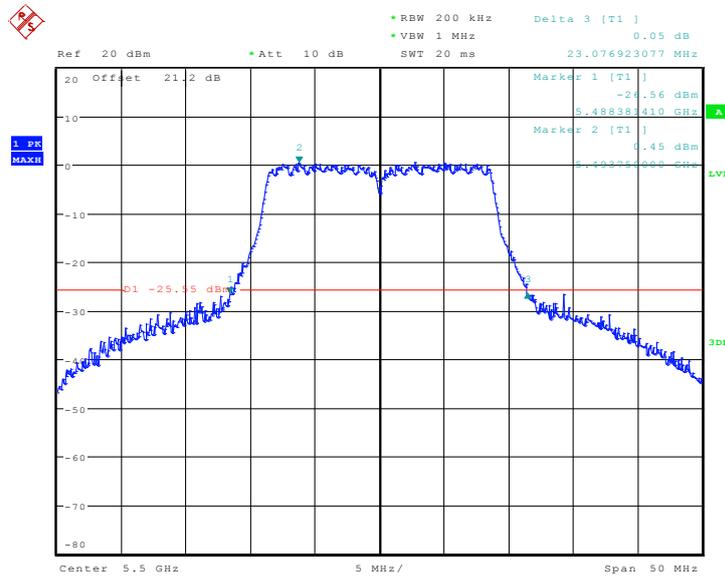
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Fig. 14 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)



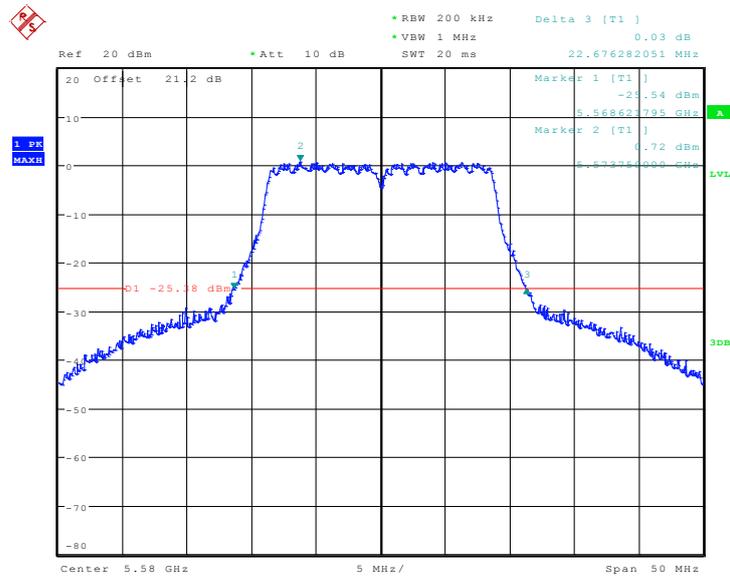
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Fig. 15 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)



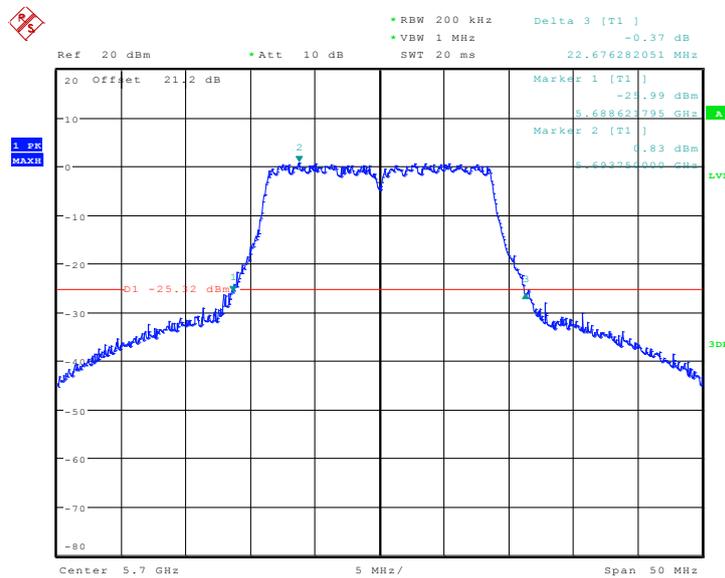
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Fig. 16 Occupied 26dB Bandwidth (802.11n-HT20, 5500MHz)



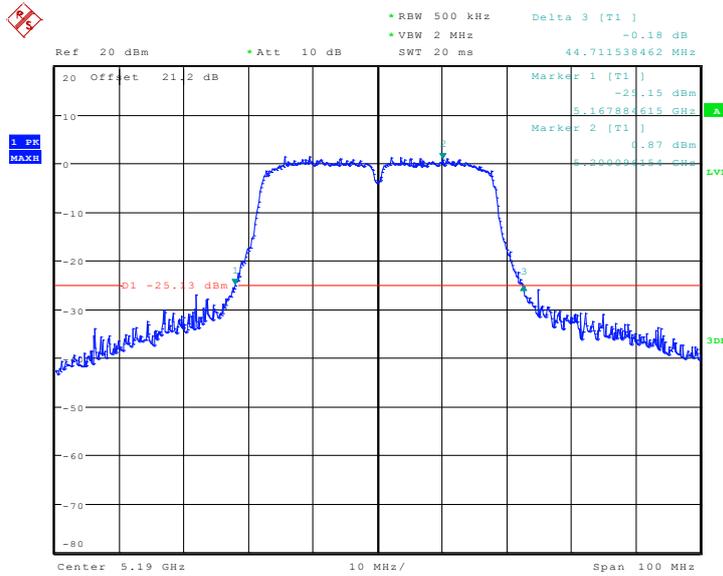
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Fig. 17 Occupied 26dB Bandwidth (802. 11n-HT20, 5580MHz)



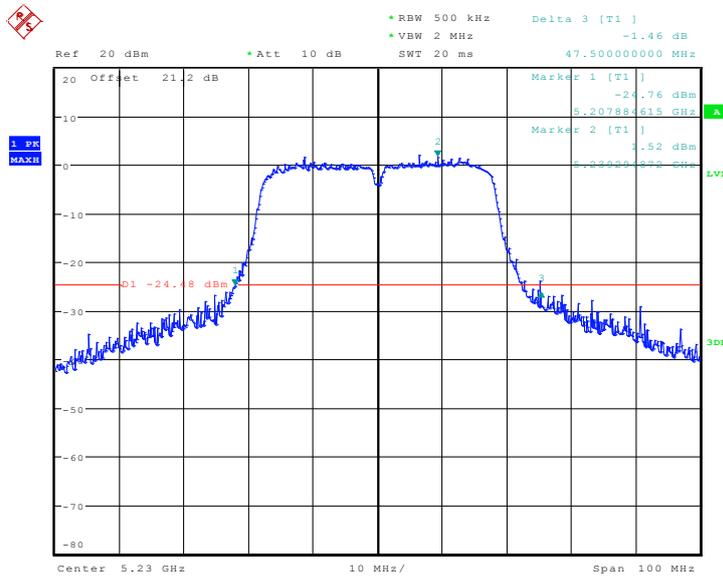
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Fig. 18 Occupied 26dB Bandwidth (802. 11n-HT20, 5700MHz)



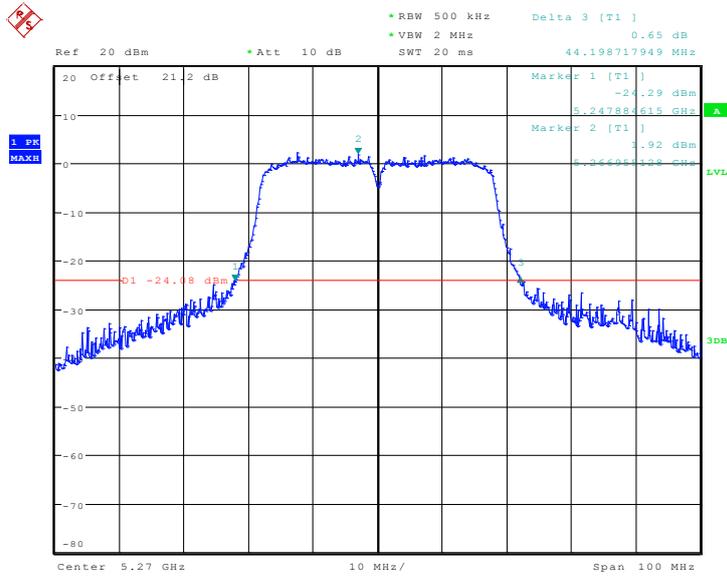
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Fig. 19 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)



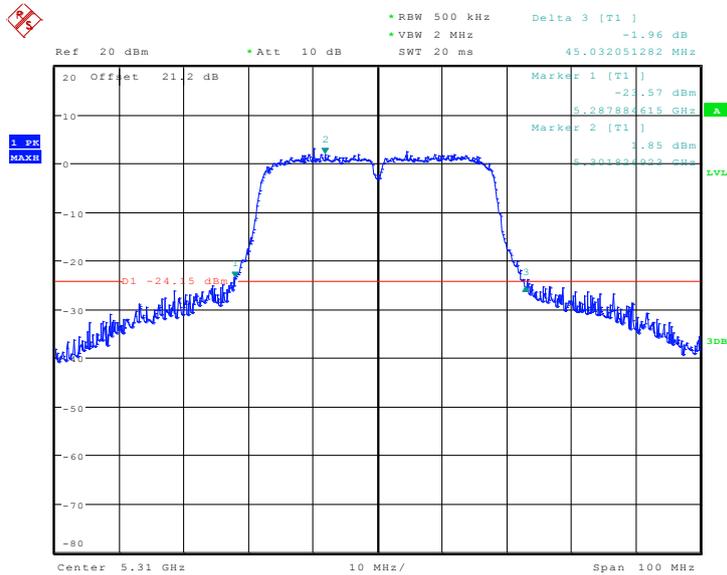
Date: 3.JAN.2014 13:45:05

Fig. 20 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)



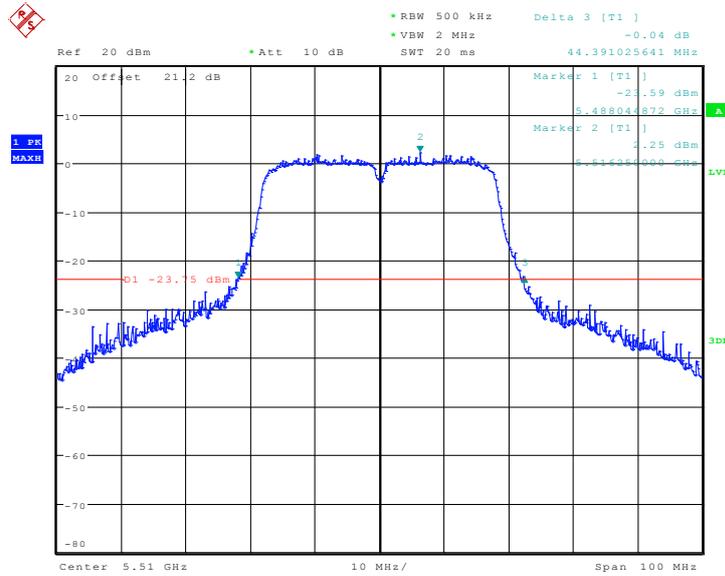
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Fig. 21 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)



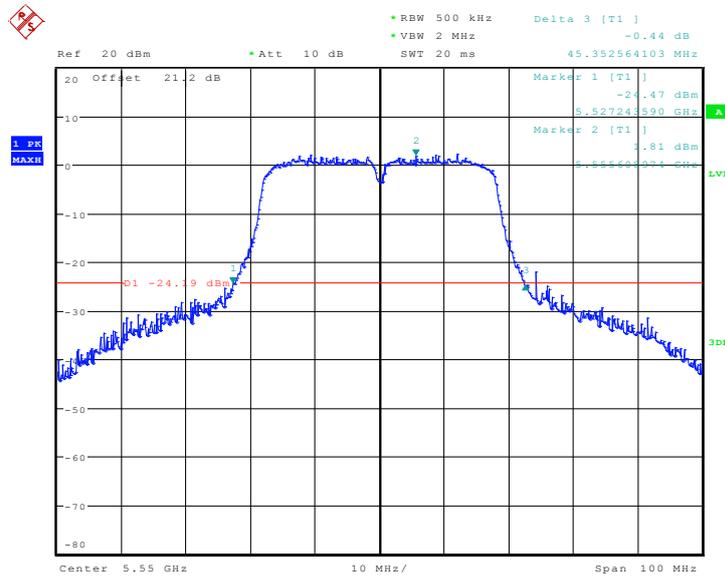
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Fig. 22 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)



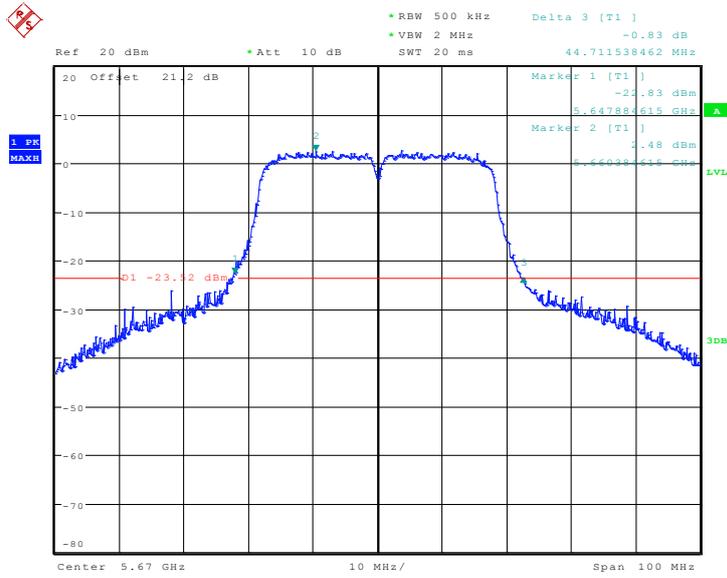
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Fig. 23 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)



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Fig. 24 Occupied 26dB Bandwidth (802. 11n-HT40, 5550MHz)



Date: 3.JAN.2014 13:50:46

Fig. 25 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

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:

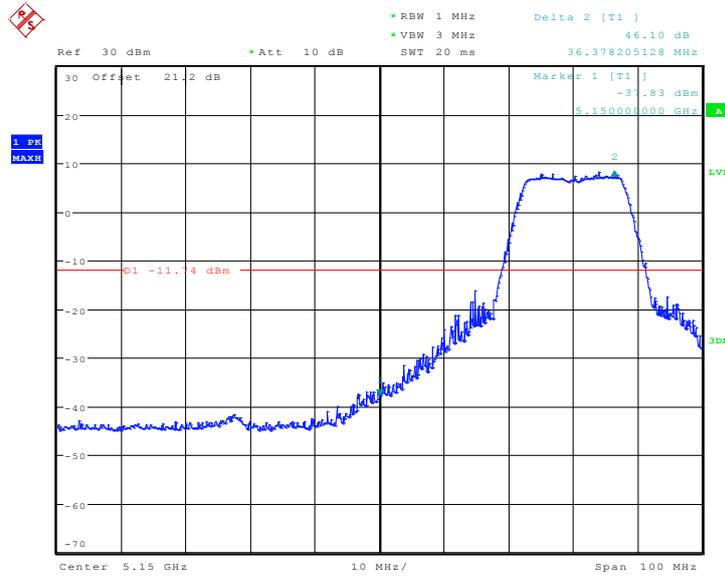
Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.26	P
	5320 MHz	Fig.27	P
	5500 MHz	Fig.28	P
802.11n HT20	5180 MHz	Fig.29	P
	5320 MHz	Fig.30	P
	5500 MHz	Fig.31	P
802.11n HT40	5190 MHz	Fig.32	P
	5310 MHz	Fig.33	P
	5510 MHz	Fig.34	P

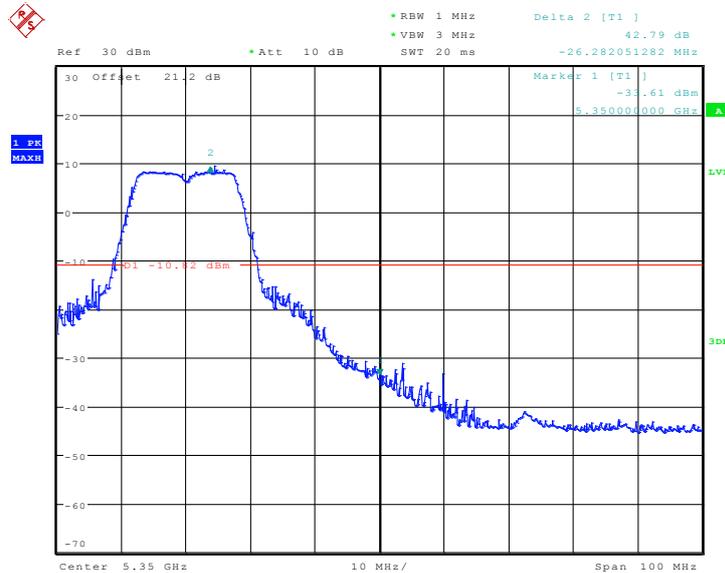
Conclusion: PASS

Test graphs as below:



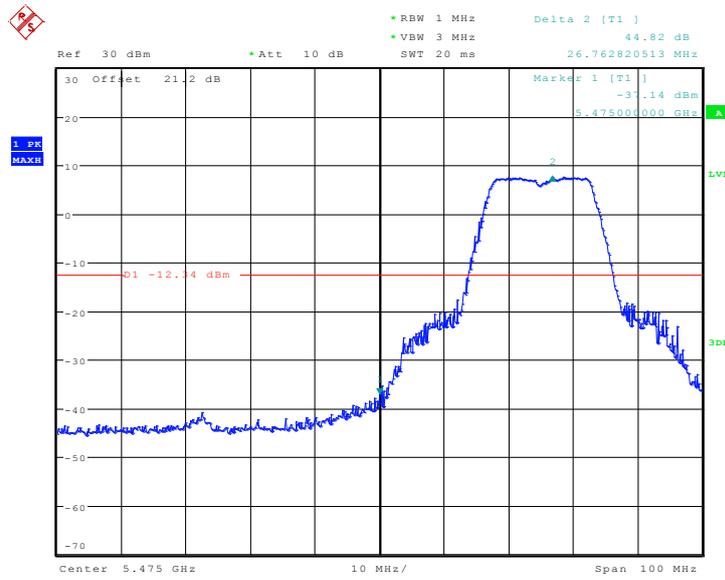
Date: 3.JAN.2014 13:58:42

Fig. 26 Band Edges (802.11a, 5180MHz)



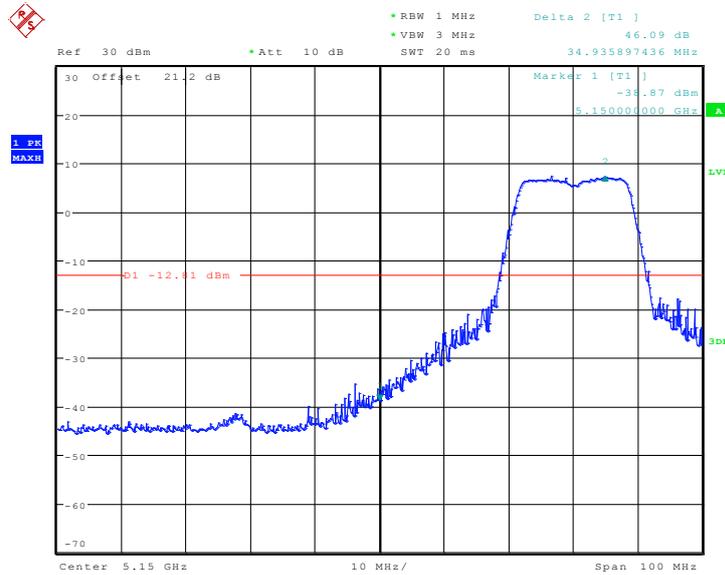
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Fig. 27 Band Edges (802.11a, 5320MHz)



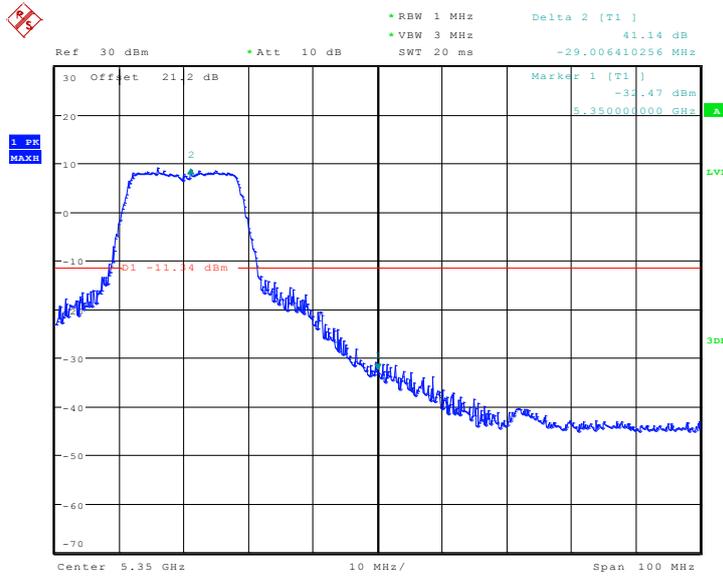
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Fig. 28 Band Edges (802.11a, 5500MHz)



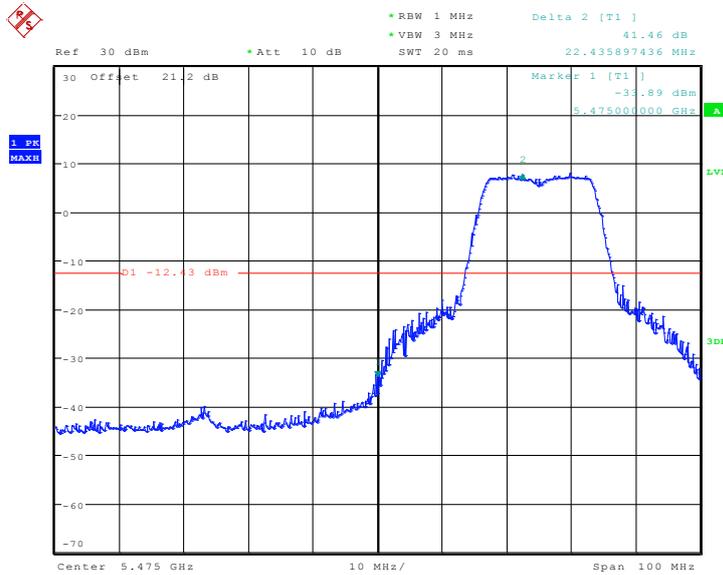
Date: 3.JAN.2014 14:00:44

Fig. 29 Band Edges (802.11n-HT20, 5180MHz)



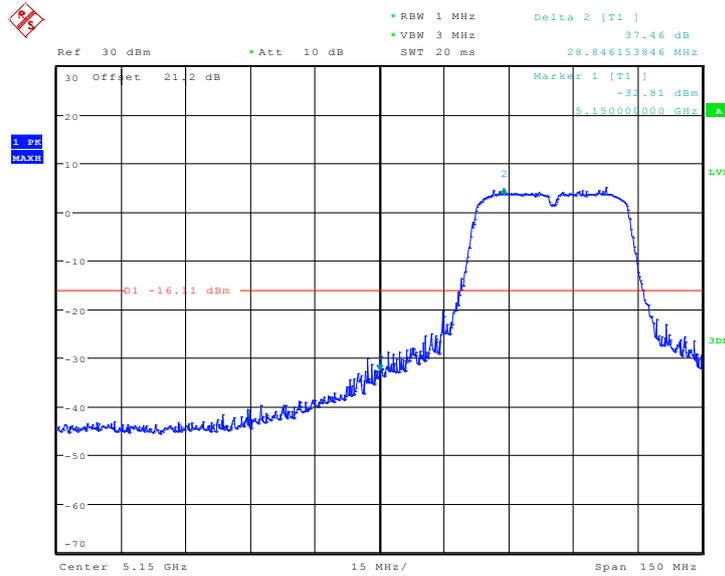
Date: 3.JAN.2014 14:01:42

Fig. 30 Band Edges (802.11n-HT20, 5320MHz)



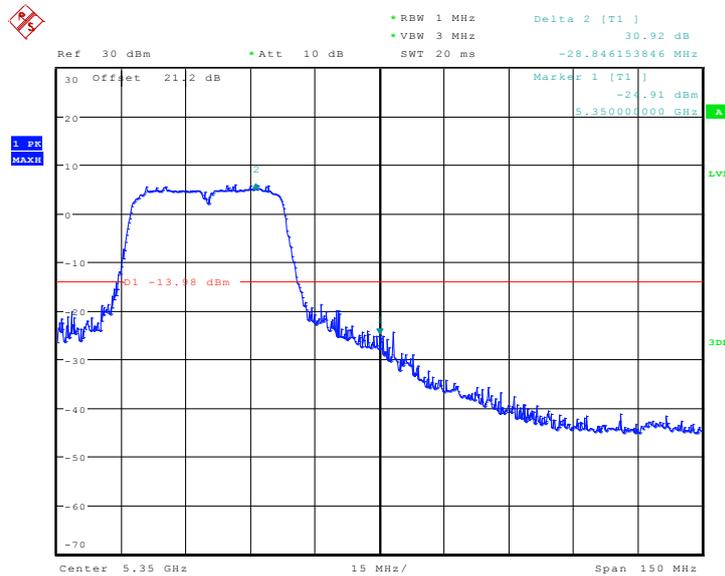
Date: 3.JAN.2014 14:02:18

Fig. 31 Band Edges (802.11n-HT20, 5500MHz)



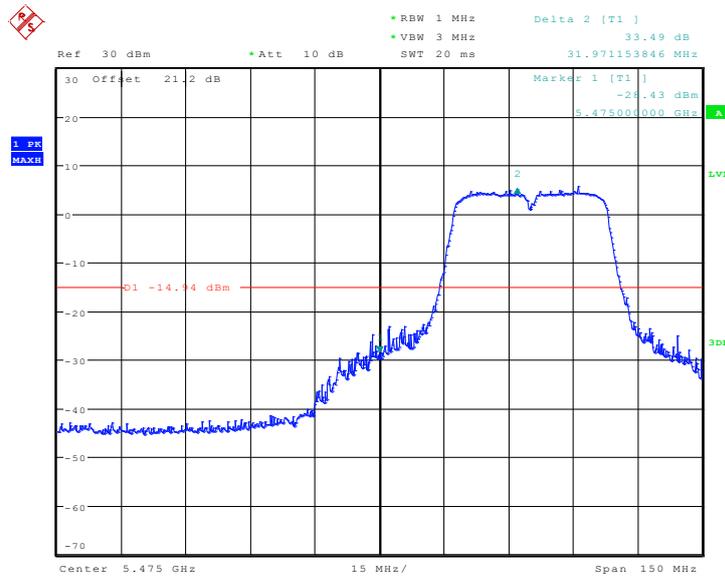
Date: 3.JAN.2014 14:03:16

Fig. 32 Band Edges (802.11n-HT40, 5190MHz)



Date: 3.JAN.2014 14:04:05

Fig. 33 Band Edges (802.11n-HT40, 5310MHz)



Date: 3.JAN.2014 14:07:31

Fig. 34 Band Edges (802.11n-HT40, 5510MHz)

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.35	P
	5320 MHz	Fig.36	P
	5500 MHz	Fig.37	P
802.11n HT20	5180 MHz	Fig.38	P
	5320 MHz	Fig.39	P
	5500 MHz	Fig.40	P
802.11n HT40	5190 MHz	Fig.41	P
	5310 MHz	Fig.42	P
	5510 MHz	Fig.43	P

Conclusion: PASS

Test graphs as below:

RE-Power_5.125G-5.175GHz

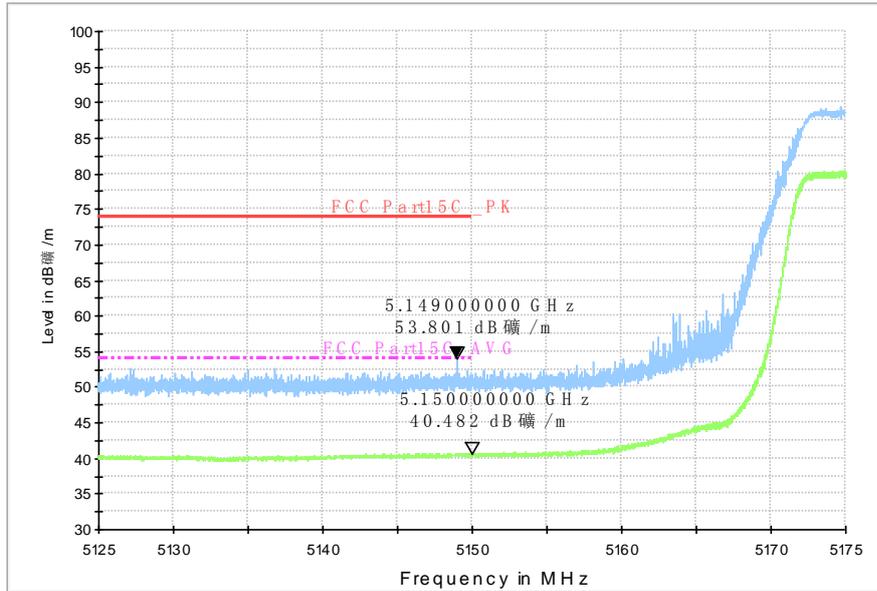


Fig. 35 Band Edges (802.11a, 5180MHz)

RE-Power_5.325G-5.375GHz

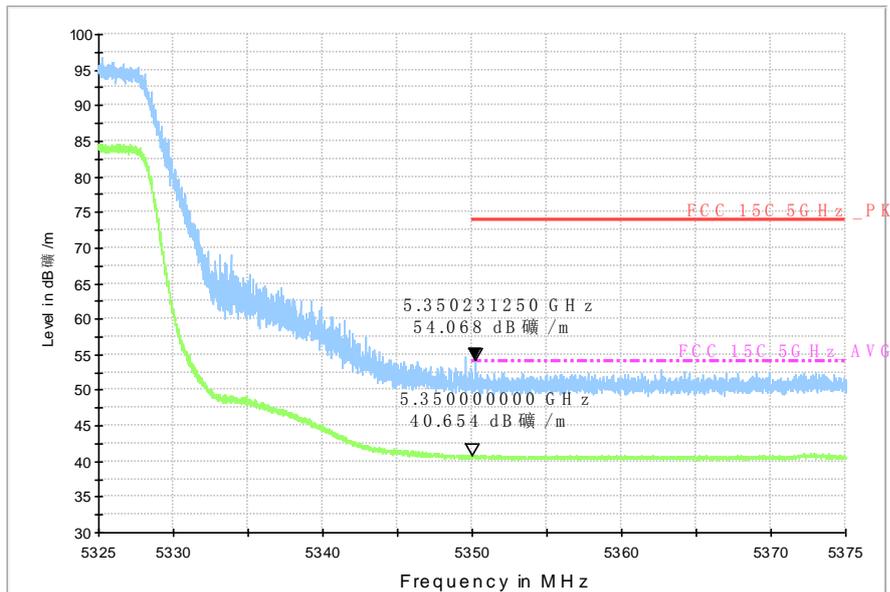


Fig. 36 Band Edges (802.11a, 5320MHz)

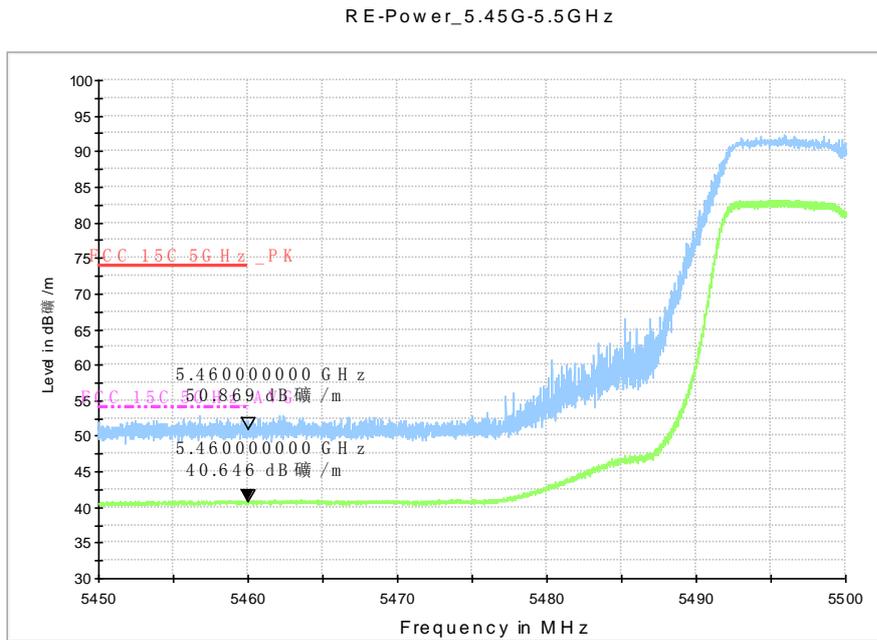


Fig. 37 Band Edges (802.11a, 5500MHz)

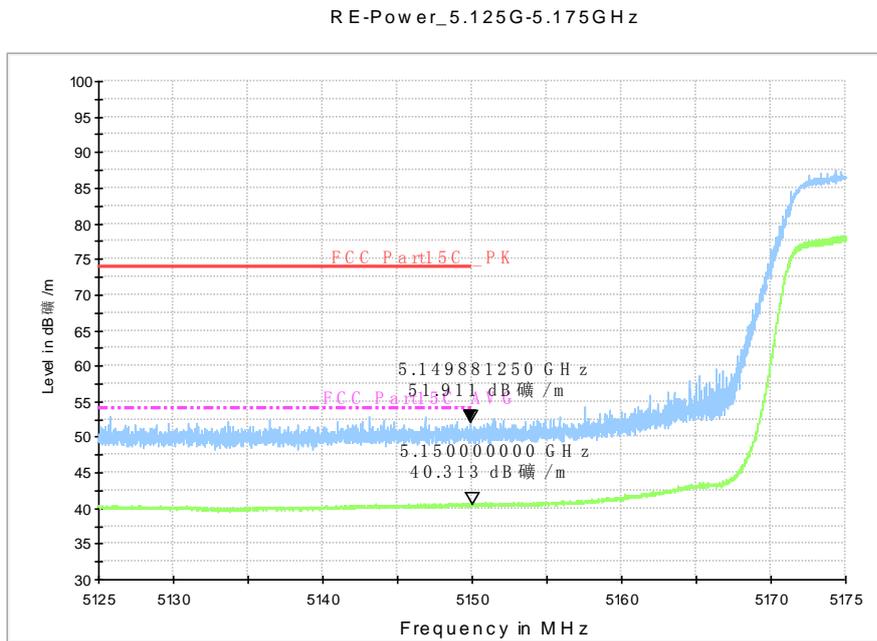


Fig. 38 Band Edges (802.11n-HT20, 5180MHz)

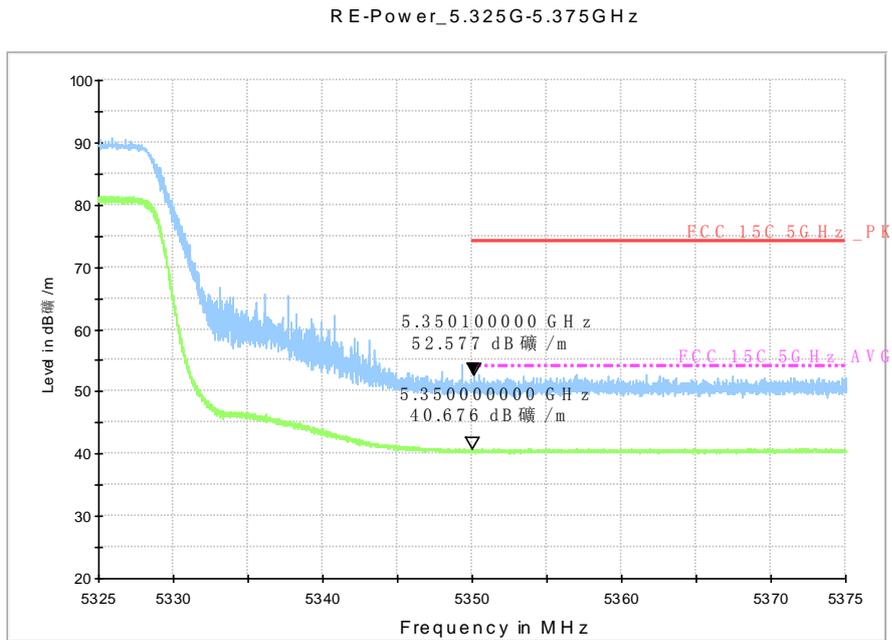


Fig. 39 Band Edges (802.11n-HT20, 5320MHz)

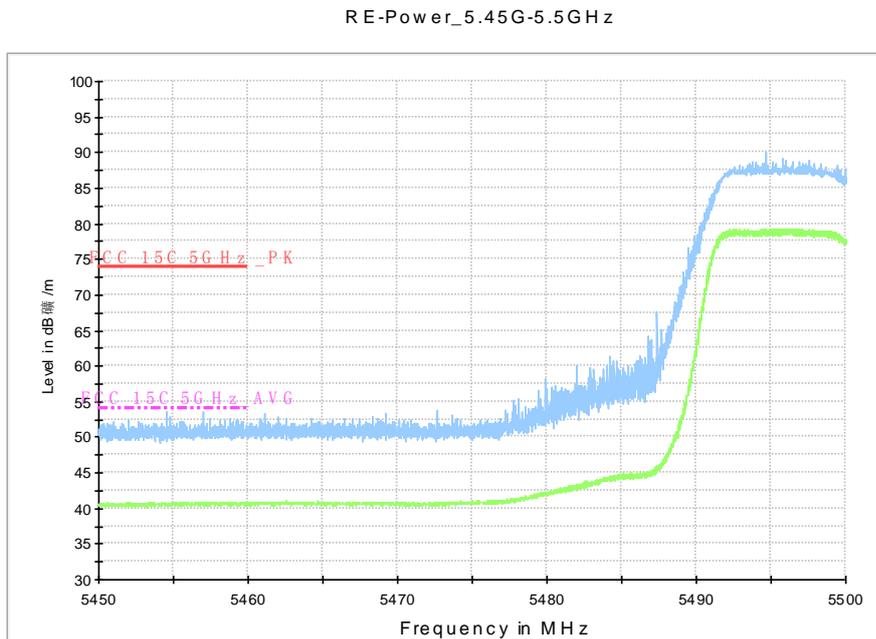


Fig. 40 Band Edges (802.11n-HT20, 5500MHz)

RE-Power_5.125G-5.175GHz

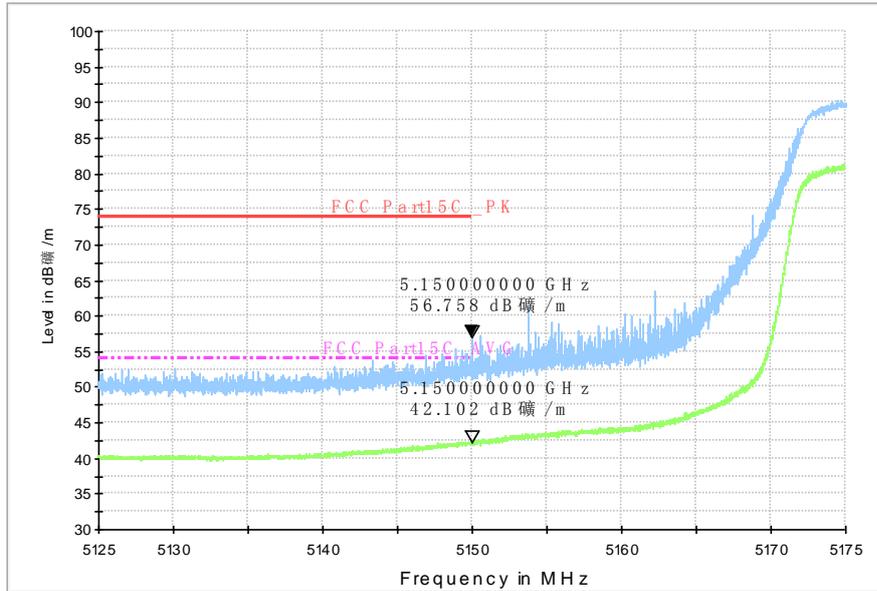


Fig. 41 Band Edges (802.11n-HT40, 5190MHz)

RE-Power_5.325G-5.375GHz

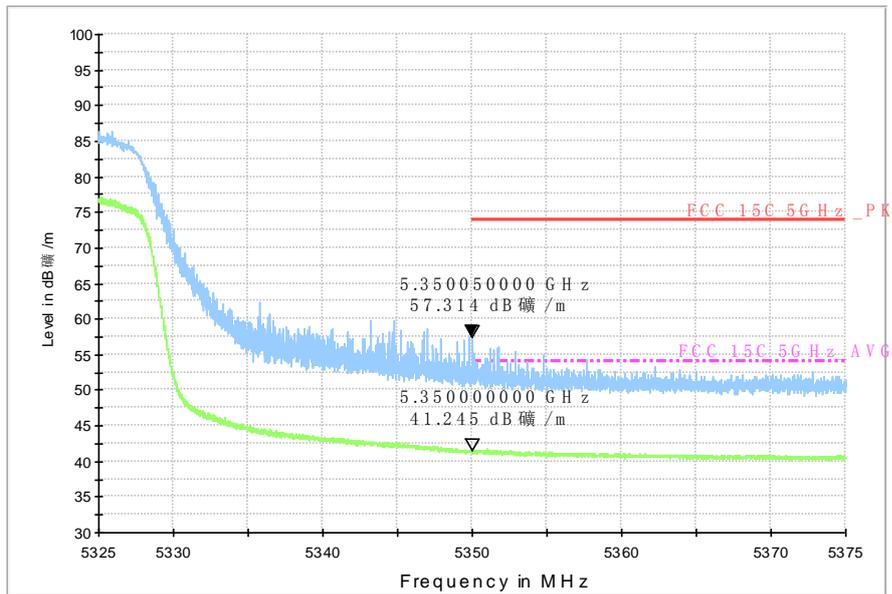


Fig. 42 Band Edges (802.11n-HT40, 5310MHz)

RE-Power_5.45G-5.5GHz

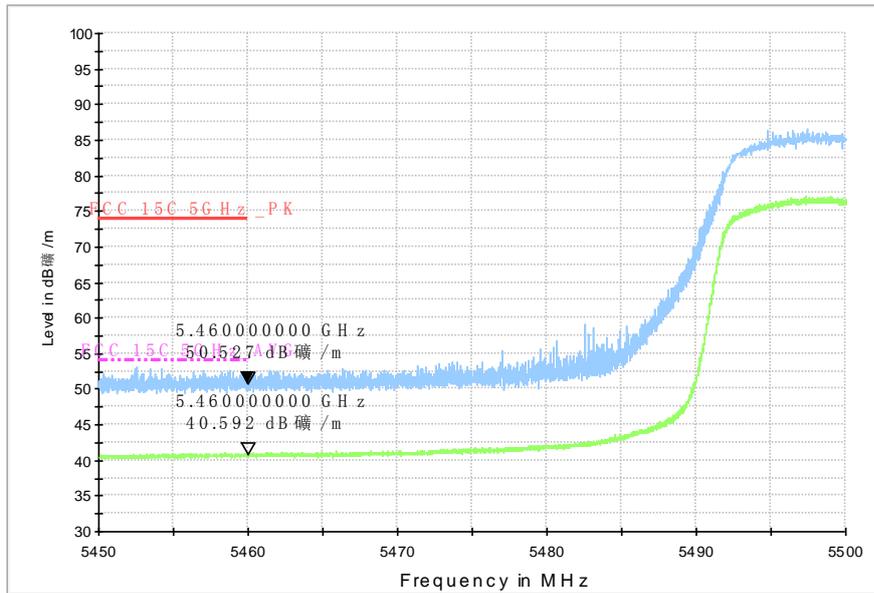


Fig. 43 Band Edges (802.11n-HT40, 5510MHz)

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 μ 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

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.9 dB, k=2.

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	30 MHz ~1 GHz	Fig.44	P
		1 GHz ~ 6 GHz	Fig.45	P
		6 GHz ~ 18 GHz	Fig.46	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.47	P
		1 GHz ~ 6 GHz	Fig.48	P
		6 GHz ~ 18 GHz	Fig.49	P
	48(5240MHz)	30 MHz ~1 GHz	Fig.50	P
		1 GHz ~ 6 GHz	Fig.51	P
		6 GHz ~ 18 GHz	Fig.52	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.53	P
		26.5 GHz ~ 40 GHz	Fig.54	P
	52(5260MHz)	30 MHz ~1 GHz	Fig.55	P
		1 GHz ~ 6 GHz	Fig.56	P
		6 GHz ~ 18 GHz	Fig.57	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.58	P
		1 GHz ~ 6 GHz	Fig.59	P
		6 GHz ~ 18 GHz	Fig.60	P
	64(5320MHz)	30 MHz ~1 GHz	Fig.61	P
		1 GHz ~ 6 GHz	Fig.62	P
		6 GHz ~ 18 GHz	Fig.63	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.64	P
26.5 GHz ~ 40 GHz		Fig.65	P	

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	100(5500MHz)	30 MHz ~1 GHz	Fig.66	P
		1 GHz ~ 6 GHz	Fig.67	P
		6 GHz ~ 18 GHz	Fig.68	P
	116(5580MHz)	30 MHz ~1 GHz	Fig.69	P
		1 GHz ~ 6 GHz	Fig.70	P
		6 GHz ~ 18 GHz	Fig.71	P
	140(5700MHz)	30 MHz ~1 GHz	Fig.72	P
		1 GHz ~ 6 GHz	Fig.73	P
		6 GHz ~ 18 GHz	Fig.74	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.75	P
		26.5 GHz ~ 40 GHz	Fig.76	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n- HT20	36(5180MHz)	30 MHz ~1 GHz	Fig.77	P
		1 GHz ~ 6 GHz	Fig.78	P
		6 GHz ~ 18 GHz	Fig.79	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.80	P
		1 GHz ~ 6 GHz	Fig.81	P
		6 GHz ~ 18 GHz	Fig.82	P
	48(5240MHz)	30 MHz ~1 GHz	Fig.83	P
		1 GHz ~ 6 GHz	Fig.84	P
		6 GHz ~ 18 GHz	Fig.85	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.86	P
		26.5 GHz ~ 40 GHz	Fig.87	P
	52(5260MHz)	30 MHz ~1 GHz	Fig.88	P
		1 GHz ~ 6 GHz	Fig.89	P
		6 GHz ~ 18 GHz	Fig.90	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.91	P
		1 GHz ~ 6 GHz	Fig.92	P
		6 GHz ~ 18 GHz	Fig.93	P
	64(5320MHz)	30 MHz ~1 GHz	Fig.94	P
		1 GHz ~ 6 GHz	Fig.95	P
		6 GHz ~ 18 GHz	Fig.96	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.97	P
		26.5 GHz ~ 40 GHz	Fig.98	P

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n- HT20	100(5500MHz)	30 MHz ~1 GHz	Fig.99	P
		1 GHz ~ 6 GHz	Fig.100	P
		6 GHz ~ 18 GHz	Fig.101	P
	116(5580MHz)	30 MHz ~1 GHz	Fig.102	P
		1 GHz ~ 6 GHz	Fig.103	P
		6 GHz ~ 18 GHz	Fig.104	P
	140(5700MHz)	30 MHz ~1 GHz	Fig.105	P
		1 GHz ~ 6 GHz	Fig.106	P
		6 GHz ~ 18 GHz	Fig.107	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.108	P
		26.5 GHz ~ 40 GHz	Fig.109	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n- HT40	38(5190MHz)	30 MHz ~1 GHz	Fig.110	P
		1 GHz ~ 6 GHz	Fig.111	P
		6 GHz ~ 18 GHz	Fig.112	P
	46(5230MHz)	30 MHz ~1 GHz	Fig.113	P
		1 GHz ~ 6 GHz	Fig.114	P
		6 GHz ~ 18 GHz	Fig.115	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.116	P
		26.5 GHz ~ 40 GHz	Fig.117	P
	54(5270MHz)	30 MHz ~1 GHz	Fig.118	P
		1 GHz ~ 6 GHz	Fig.119	P
		6 GHz ~ 18 GHz	Fig.120	P
	62(5310MHz)	30 MHz ~1 GHz	Fig.121	P
		1 GHz ~ 6 GHz	Fig.122	P
		6 GHz ~ 18 GHz	Fig.123	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.124	P
		26.5 GHz ~ 40 GHz	Fig.125	P

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	102(5510MHz)	30 MHz ~1 GHz	Fig.126	P
		1 GHz ~ 6 GHz	Fig.127	P
		6 GHz ~ 18 GHz	Fig.128	P
	110(5550MHz)	30 MHz ~1 GHz	Fig.129	P
		1 GHz ~ 6 GHz	Fig.130	P
		6 GHz ~ 18 GHz	Fig.131	P
	134(5670MHz)	30 MHz ~1 GHz	Fig.132	P
		1 GHz ~ 6 GHz	Fig.133	P
		6 GHz ~ 18 GHz	Fig.134	P
	All Channels	18 GHz ~ 26.5 GHz	Fig.135	P
		26.5 GHz ~ 40 GHz	Fig.136	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

802.11a

Channel 36

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5149.000	53.8	-35.1	34.6	54.300	H
17792.400	53.2	-18.5	45.6	26.100	V
17860.800	52.9	-18.5	45.6	25.800	V
17688.000	52.3	-18.9	45.6	25.600	H
17532.000	52.1	-19.2	45.6	25.700	V
17749.200	51.9	-18.5	45.6	24.800	V

Channel 40

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17851.200	53.8	-18.5	45.6	26.700	H
17810.400	52.8	-18.5	45.6	25.700	H
17864.400	52.8	-18.5	45.6	25.700	H
17811.600	52.8	-18.5	45.6	25.700	V
17984.400	52.3	-17.7	45.6	24.400	V
17896.800	51.4	-18.5	45.6	24.300	H

Channel 48

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17868.000	53.1	-18.5	45.6	26.000	V
17936.400	52.4	-17.7	45.6	24.500	V
17548.800	52.3	-19.2	45.6	25.900	H
17887.200	52.3	-18.5	45.6	25.200	V
17937.600	52.3	-17.7	45.6	24.400	H
17570.400	52.2	-18.9	45.6	25.500	V

Channel 52

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17734.800	52.2	-18.9	45.6	25.5	H
17798.400	51.7	-18.5	45.6	24.6	H
17782.800	51.5	-18.5	45.6	24.4	V
17840.400	51.5	-18.5	45.6	24.4	H
17808.000	51.5	-18.5	45.6	24.4	H
17877.600	51.4	-18.5	45.6	24.3	H

Channel 56

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17818.800	52.7	-18.5	45.6	25.6	H
17776.800	52.4	-18.5	45.6	25.3	V
17798.400	52.0	-18.5	45.6	24.9	V
17830.800	51.9	-18.5	45.6	24.8	H
17745.600	51.3	-18.5	45.6	24.2	H
17827.200	51.2	-18.5	45.6	24.1	H

Channel 64

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5350.231	54.1	-34.8	34.6	54.3	V
17689.200	53.3	-18.9	45.6	26.6	V
17836.800	52.1	-18.5	45.6	25.0	V
17968.800	51.7	-17.7	45.6	23.8	H
17756.400	51.7	-18.5	45.6	24.6	H
17786.400	51.7	-18.5	45.6	24.6	V

Channel 100

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5460.000	50.9	-34.9	34.6	51.2	H
17966.400	53.0	-17.7	45.6	25.1	H
17848.800	52.3	-18.5	45.6	25.2	V
17948.400	52.1	-17.7	45.6	24.2	V
17947.200	52.1	-17.7	45.6	24.2	H
17914.800	52.0	-17.7	45.6	24.1	V

Channel 116

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17631.600	52.8	-18.9	45.6	26.1	H
17632.800	52.3	-18.9	45.6	25.6	V
17797.200	52.2	-18.5	45.6	25.1	H
17736.000	51.9	-18.9	45.6	25.2	V
17888.400	51.9	-18.5	45.6	24.8	V
17906.400	51.8	-18.5	45.6	24.7	H

Channel 140

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17822.400	52.1	-18.5	45.6	25.0	H
17773.200	52.0	-18.5	45.6	24.9	V
17730.000	51.9	-18.9	45.6	25.2	H
17872.800	51.9	-18.5	45.6	24.8	V
17984.400	51.8	-17.7	45.6	23.9	V
17743.200	51.5	-18.5	45.6	24.4	V

802.11n-HT20

Channel 36

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5149.881	51.9	-35.1	34.6	52.400	V
17754.000	53.5	-18.5	45.6	26.400	H
17467.200	52.4	-19.2	41.5	30.100	H
17816.400	52.0	-18.5	45.6	24.900	V
17864.400	51.5	-18.5	45.6	24.400	H
17956.800	51.4	-17.7	45.6	23.500	V

Channel 40

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17919.600	53.1	-17.7	45.6	25.200	H
17847.600	52.9	-18.5	45.6	25.800	V
17928.000	52.6	-17.7	45.6	24.700	V
17925.600	52.5	-17.7	45.6	24.600	H
17821.200	52.4	-18.5	45.6	25.300	V
17490.000	52.3	-19.2	41.5	30.000	H

Channel 48

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17997.600	52.7	-17.7	45.6	24.800	V
17869.200	52.6	-18.5	45.6	25.500	H
17986.800	52.5	-17.7	45.6	24.600	H
17762.400	52.4	-18.5	45.6	25.300	H
17984.400	52.1	-17.7	45.6	24.200	V
17768.400	52.0	-18.5	45.6	24.900	H

Channel 52

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17781.600	52.6	-18.5	45.6	25.5	H
17800.800	52.5	-18.5	45.6	25.4	V
17754.000	52.1	-18.5	45.6	25.0	V
17794.800	52.0	-18.5	45.6	24.9	H
17823.600	51.8	-18.5	45.6	24.7	H
17812.800	51.8	-18.5	45.6	24.7	V

Channel 56

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17895.600	53.1	-18.5	45.6	26.0	H
17851.200	52.7	-18.5	45.6	25.6	V
17896.800	52.6	-18.5	45.6	25.5	H
17942.400	52.0	-17.7	45.6	24.1	V
17756.400	51.9	-18.5	45.6	24.8	H
17703.600	51.7	-18.9	45.6	25.0	H

Channel 64

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5350.100	52.6	-34.8	34.6	52.8	H
17886.000	53.1	-18.5	45.6	26.0	V
17552.400	53.0	-19.2	45.6	26.6	H
17791.200	52.6	-18.5	45.6	25.5	H
17856.000	52.5	-18.5	45.6	25.4	V
17878.800	52.5	-18.5	45.6	25.4	V

Channel 100

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5460.000	50.4	-34.9	34.6	50.7	H
17796.000	52.2	-18.5	45.6	25.1	V
17851.200	52.0	-18.5	45.6	24.9	H
17919.600	51.9	-17.7	45.6	24.0	V
17847.600	51.9	-18.5	45.6	24.8	H
17709.600	51.9	-18.9	45.6	25.2	H

Channel 116

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17793.600	52.6	-18.5	45.6	25.5	H
17779.200	52.3	-18.5	45.6	25.2	V
17554.800	52.1	-19.2	45.6	25.7	H
17834.400	52.1	-18.5	45.6	25.0	H
17785.200	52.1	-18.5	45.6	25.0	H
17890.800	51.8	-18.5	45.6	24.7	V

Channel 140

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17563.200	52.8	-18.9	45.6	26.1	V
17781.600	52.8	-18.5	45.6	25.7	V
17890.800	52.5	-18.5	45.6	25.4	H
17980.800	52.4	-17.7	45.6	24.5	H
17856.000	52.3	-18.5	45.6	25.2	H
17652.000	51.8	-18.9	45.6	25.1	V

802.11n-HT40

Channel 38

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5150.000	56.8	-35.1	34.6	57.300	H
17865.600	52.6	-18.5	45.6	25.500	V
17484.000	52.4	-19.2	41.5	30.100	H
17892.000	52.2	-18.5	45.6	25.100	H
17826.000	52.1	-18.5	45.6	25.000	V
17828.400	51.8	-18.5	45.6	24.700	V

Channel 46

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17571.600	53.5	-18.9	45.6	26.800	H
17662.800	52.1	-18.9	45.6	25.400	V
17738.400	52.0	-18.5	45.6	24.900	V
17898.000	51.8	-18.5	45.6	24.700	V
17502.000	51.8	-19.2	45.6	25.400	V
17850.000	51.7	-18.5	45.6	24.600	H

Channel 54

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17578.800	52.9	-18.9	45.6	26.2	V
18000.000	52.4	-45.6	44.5	53.5	V
17749.200	52.1	-18.5	45.6	25.0	H
17782.800	51.7	-18.5	45.6	24.6	V
17631.600	51.7	-18.9	45.6	25.0	V
17768.400	51.5	-18.5	45.6	24.4	H

Channel 62

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5350.050	57.3	-34.8	34.6	57.5	V
17824.800	52.5	-18.5	45.6	25.4	V
17755.200	52.4	-18.5	45.6	25.3	H
17896.800	52.2	-18.5	45.6	25.1	V
17637.600	52.1	-18.9	45.6	25.4	H
17966.400	51.9	-17.7	45.6	24.0	H

Channel 102

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5460.000	50.5	-34.9	34.6	50.8	V
17860.800	51.8	-18.5	45.6	24.7	V
17749.200	51.8	-18.5	45.6	24.7	V
17815.200	51.8	-18.5	45.6	24.7	H
17784.000	51.6	-18.5	45.6	24.5	H
17493.600	51.6	-19.2	41.5	29.3	V

Channel 110

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17996.400	52.1	-17.7	45.6	24.2	V
17934.000	52.0	-17.7	45.6	24.1	H
17830.800	51.9	-18.5	45.6	24.8	H
17640.000	51.8	-18.9	45.6	25.1	V
17859.600	51.5	-18.5	45.6	24.4	H
17646.000	51.4	-18.9	45.6	24.7	V

Channel 134

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17920.800	52.9	-17.7	45.6	25.0	H
17784.000	52.8	-18.5	45.6	25.7	H
17782.800	52.3	-18.5	45.6	25.2	V
17902.800	52.3	-18.5	45.6	25.2	V
17746.800	52.1	-18.5	45.6	25.0	V
17905.200	51.9	-18.5	45.6	24.8	H

Test graphs as below:

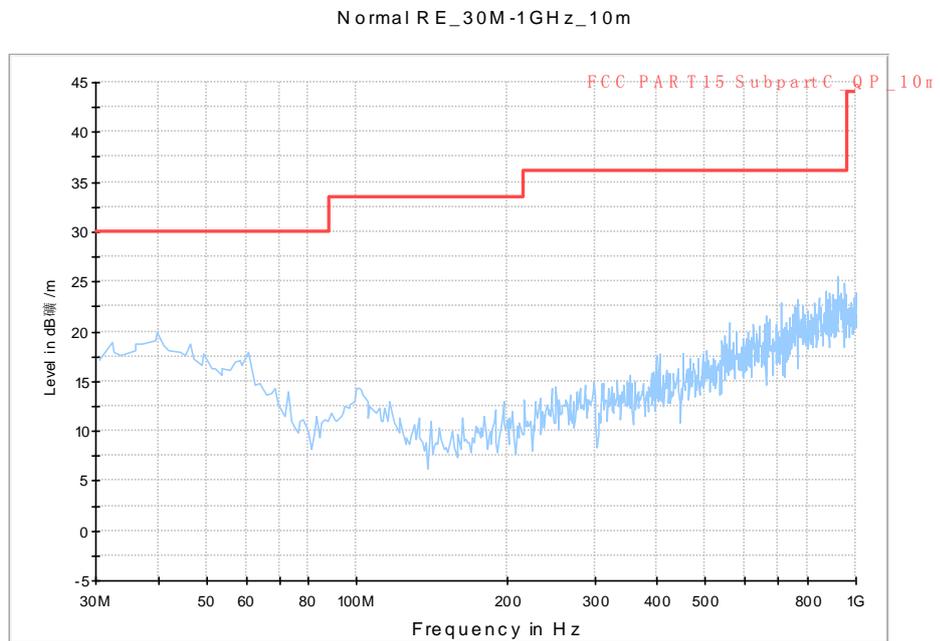


Fig. 44 Radiated Spurious Emission (802.11 a, ch36, 30 MHz-1 GHz)

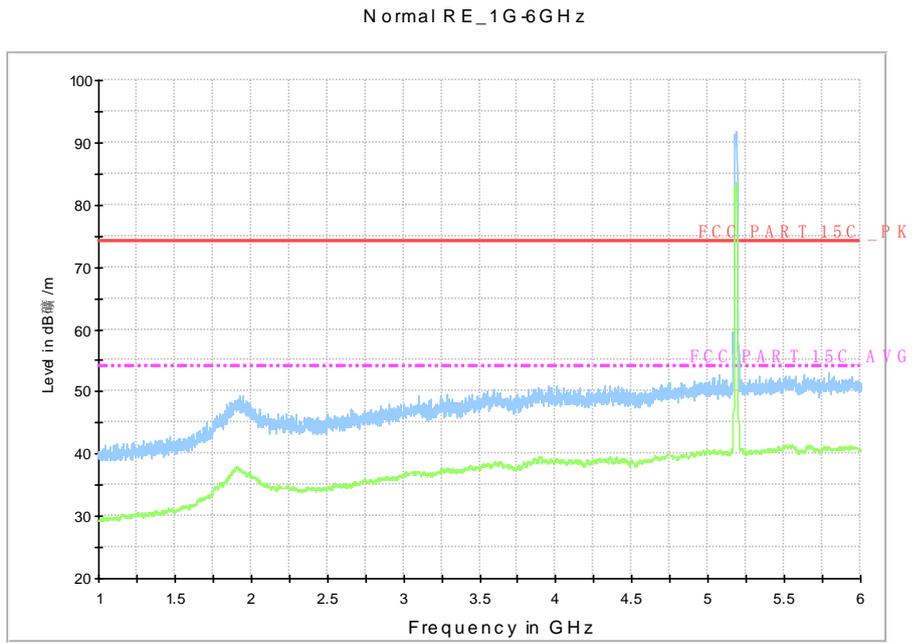


Fig. 45 Radiated Spurious Emission (802.11a, ch36, 1 GHz-6 GHz)

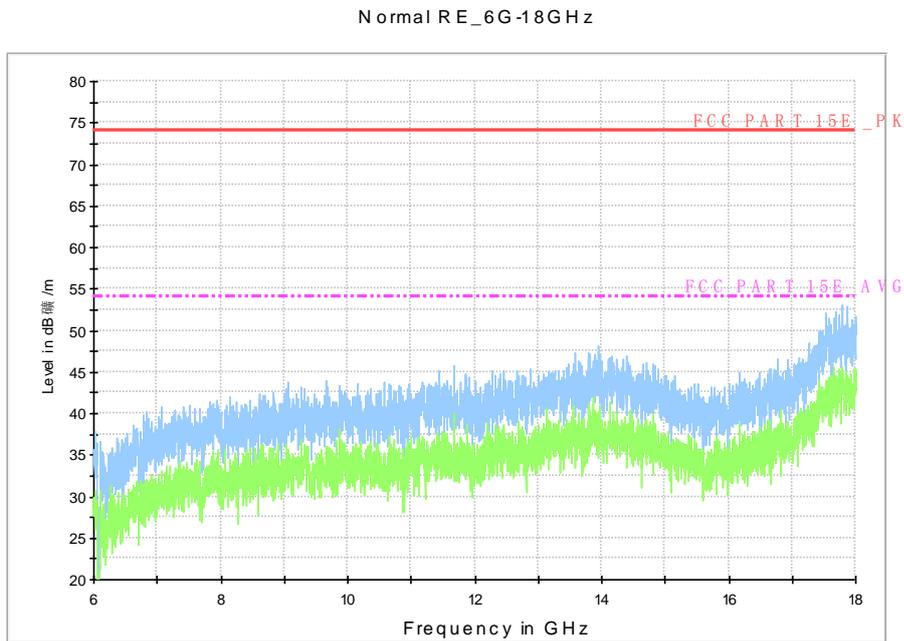


Fig. 46 Radiated Spurious Emission (802.11a, ch36, 6 GHz-18 GHz)

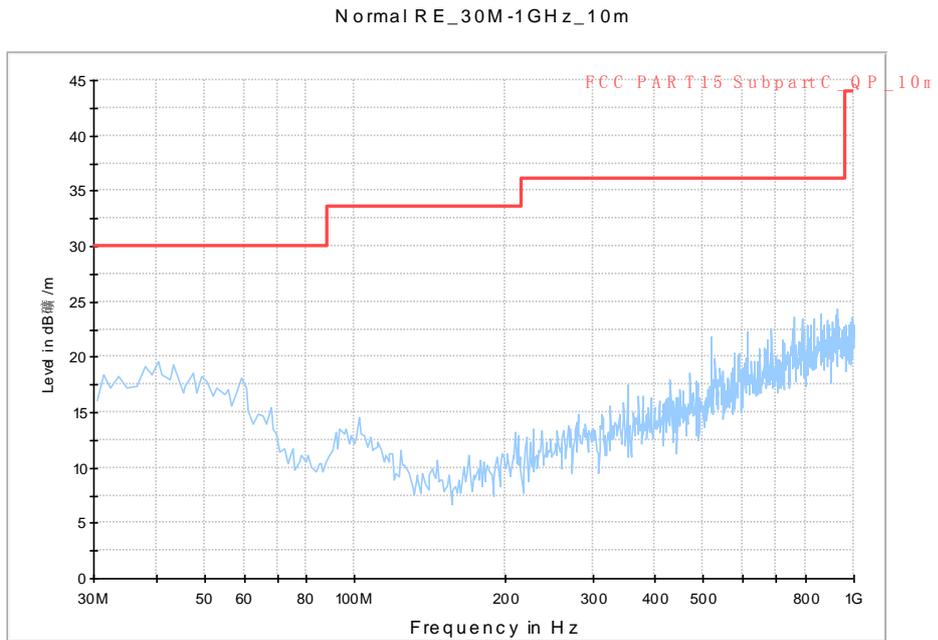


Fig. 47 Radiated Spurious Emission (802.11a, ch40, 30 MHz-1 GHz)

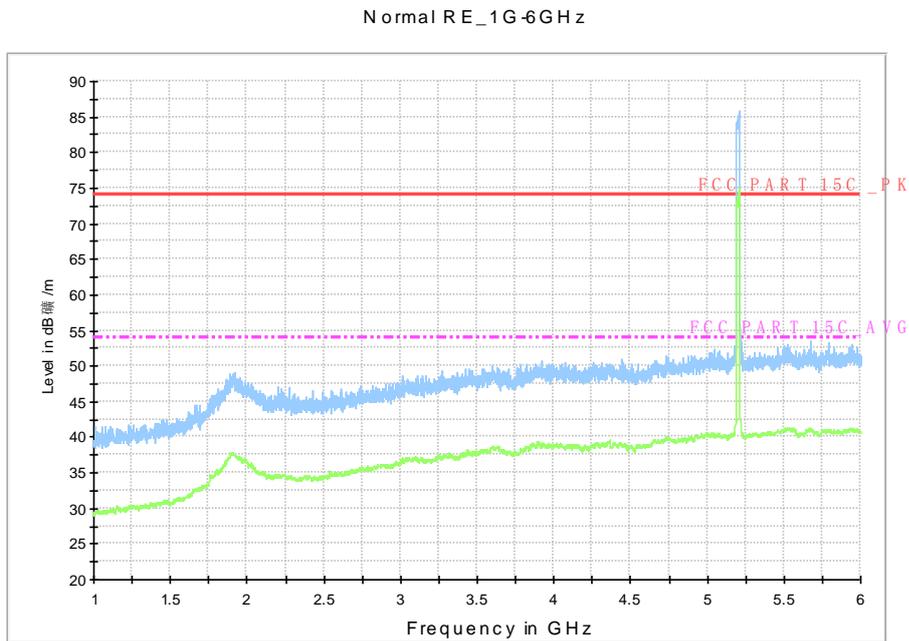


Fig. 48 Radiated Spurious Emission (802.11a, ch40, 1 GHz-6 GHz)

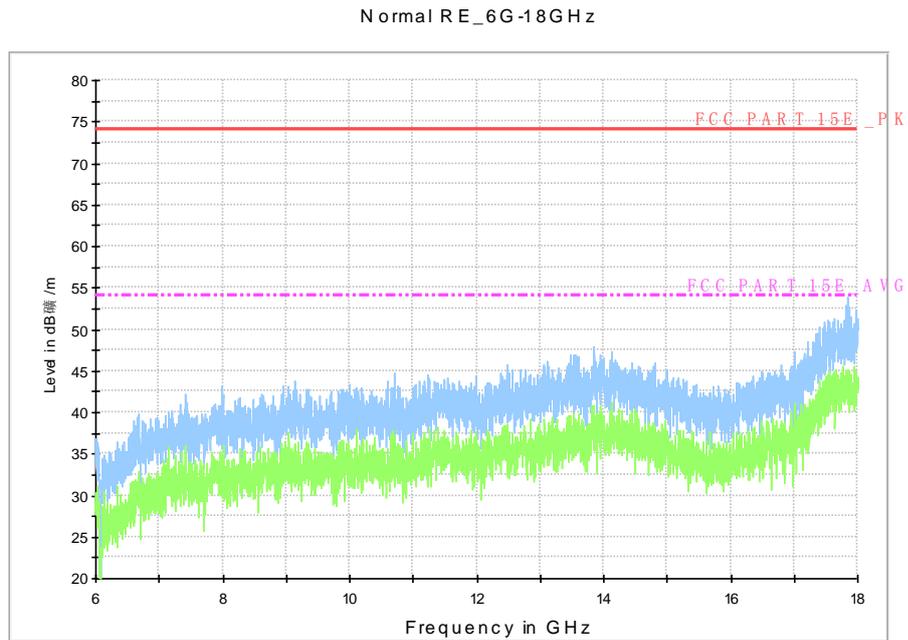


Fig. 49 Radiated Spurious Emission (802.11a, ch40, 6 GHz-18 GHz)

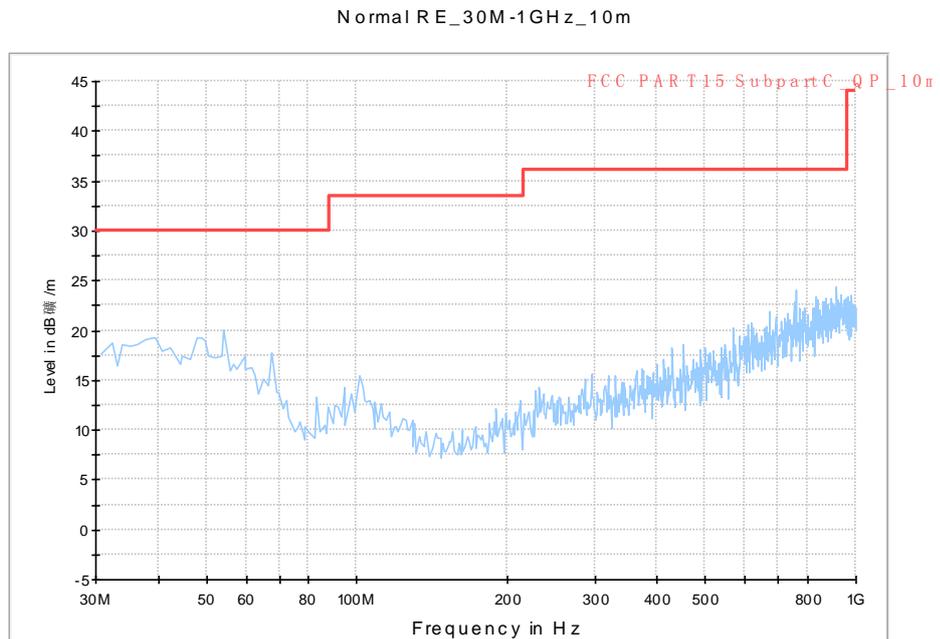


Fig. 50 Radiated Spurious Emission (802.11a, ch48, 30 MHz-1 GHz)

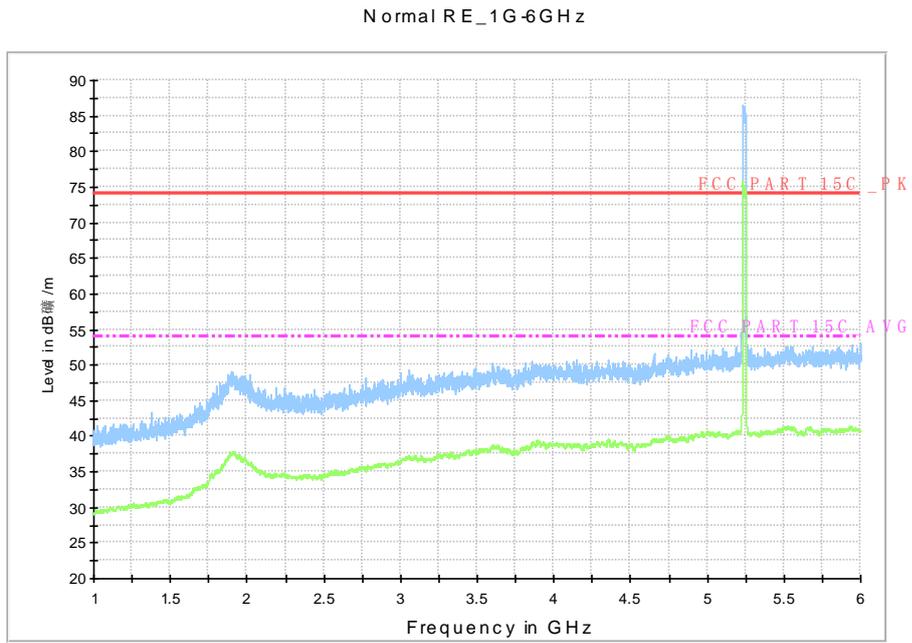


Fig. 51 Radiated Spurious Emission (802.11a, ch48, 1 GHz-6 GHz)

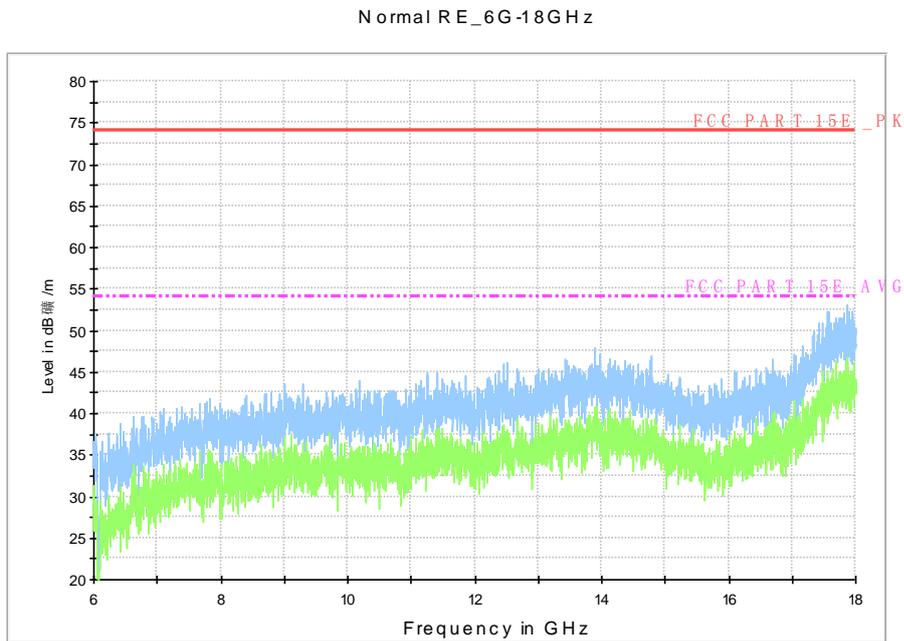


Fig. 52 Radiated Spurious Emission (802.11a, ch48, 6 GHz-18 GHz)

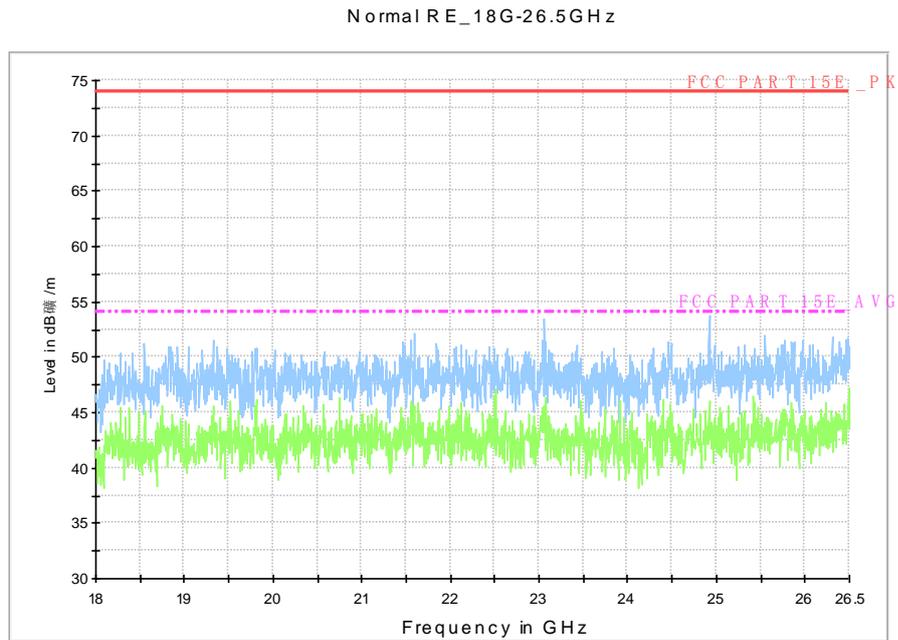


Fig. 53 Radiated Spurious Emission (802.11a, U-NII 1, 18 GHz-26.5 GHz)

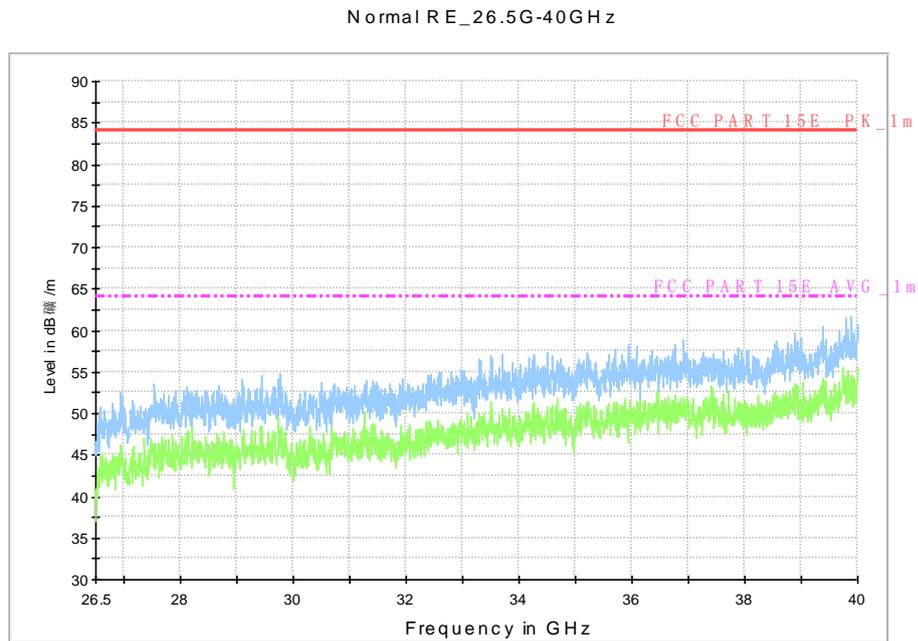


Fig. 54 Radiated Spurious Emission (802.11a, U-NII 1, 26.5 GHz-40 GHz)

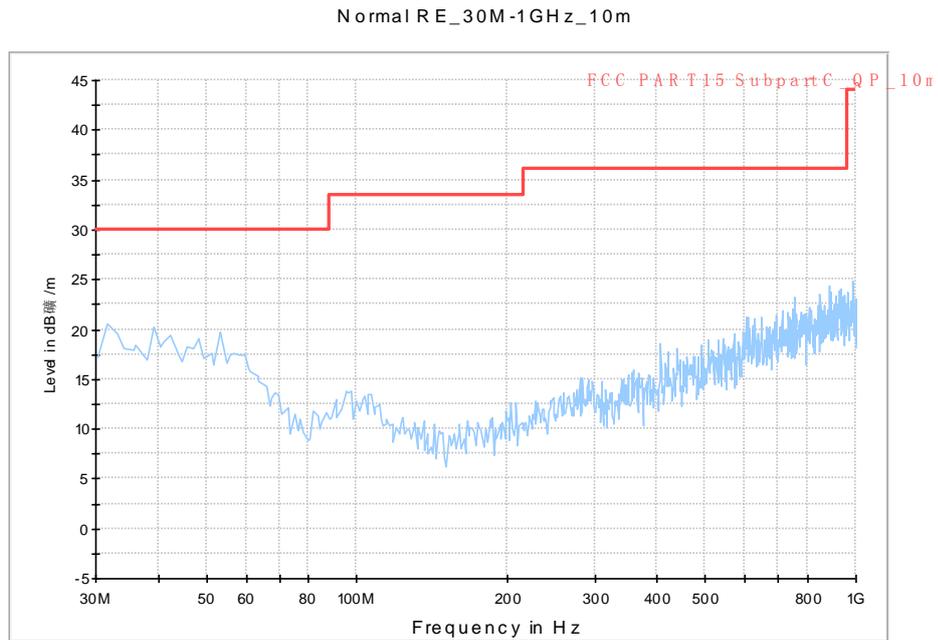


Fig. 55 Radiated Spurious Emission (802.11a, ch52, 30 MHz-1 GHz)

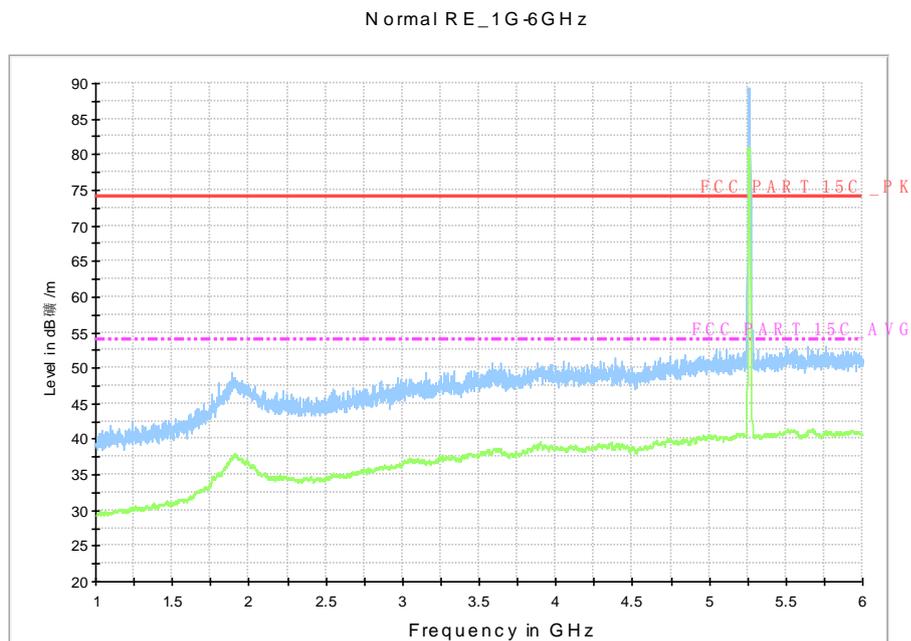


Fig. 56 Radiated Spurious Emission (802.11a, ch52, 1 GHz-6 GHz)

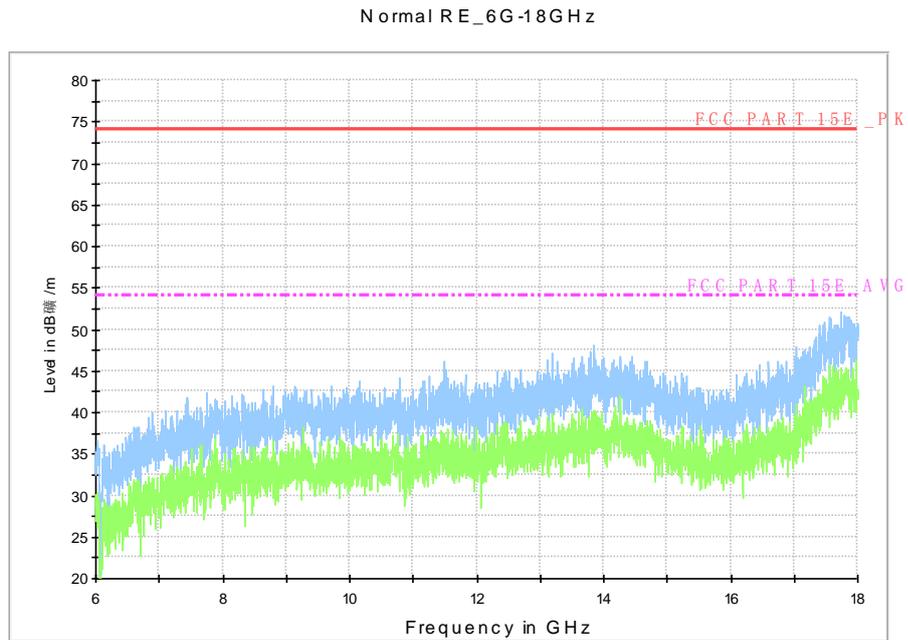


Fig. 57 Radiated Spurious Emission (802.11a, ch52, 6 GHz-18 GHz)

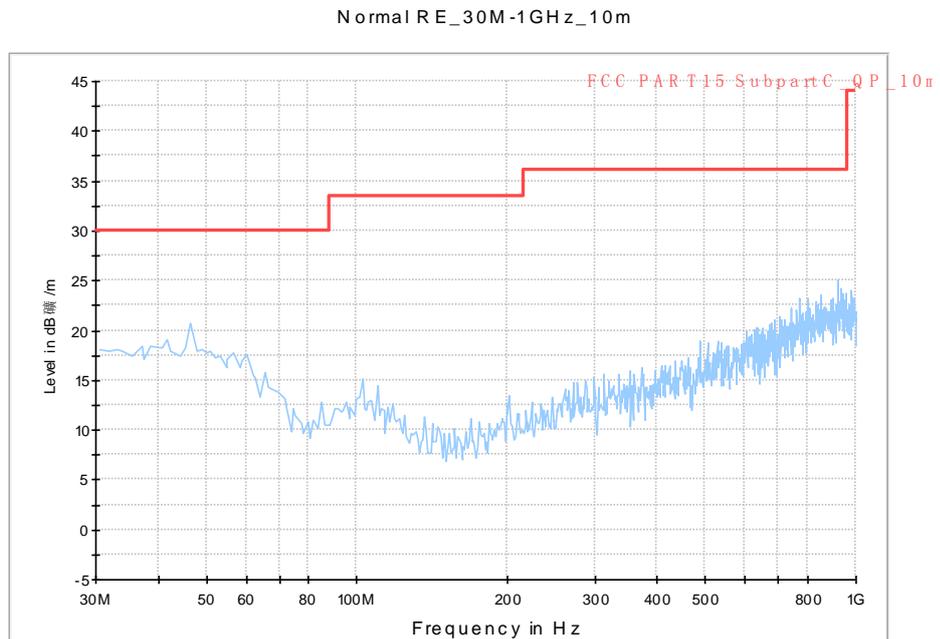


Fig. 58 Radiated Spurious Emission (802.11a, ch56, 30 MHz-1 GHz)

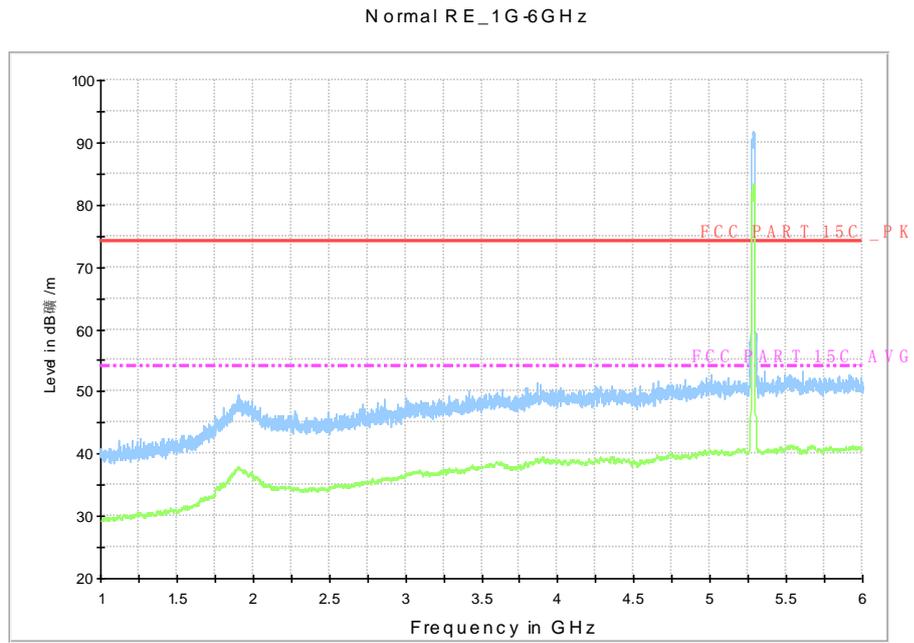


Fig. 59 Radiated Spurious Emission (802.11a, ch56, 1 GHz-6 GHz)

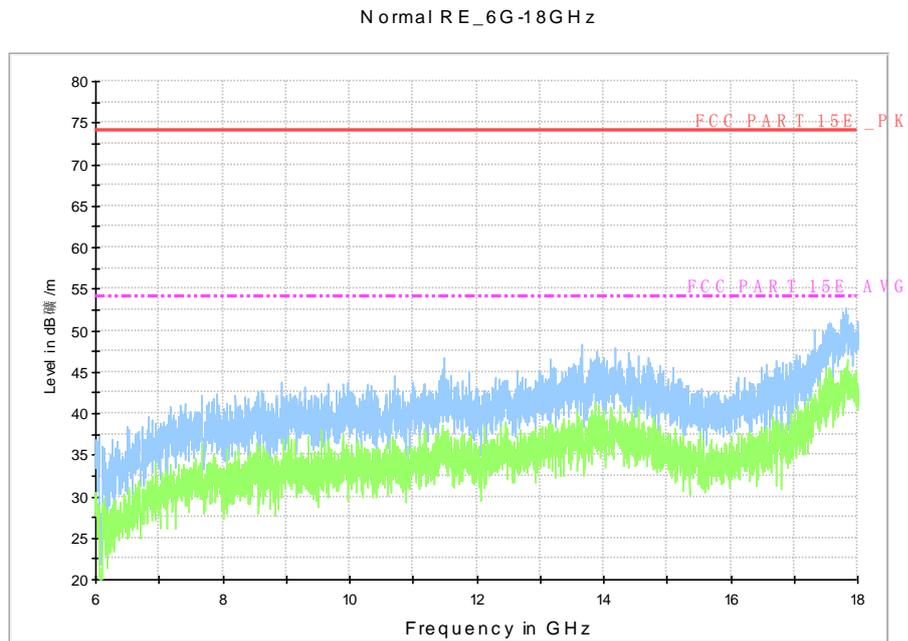


Fig. 60 Radiated Spurious Emission (802.11a, ch56, 6 GHz-18 GHz)

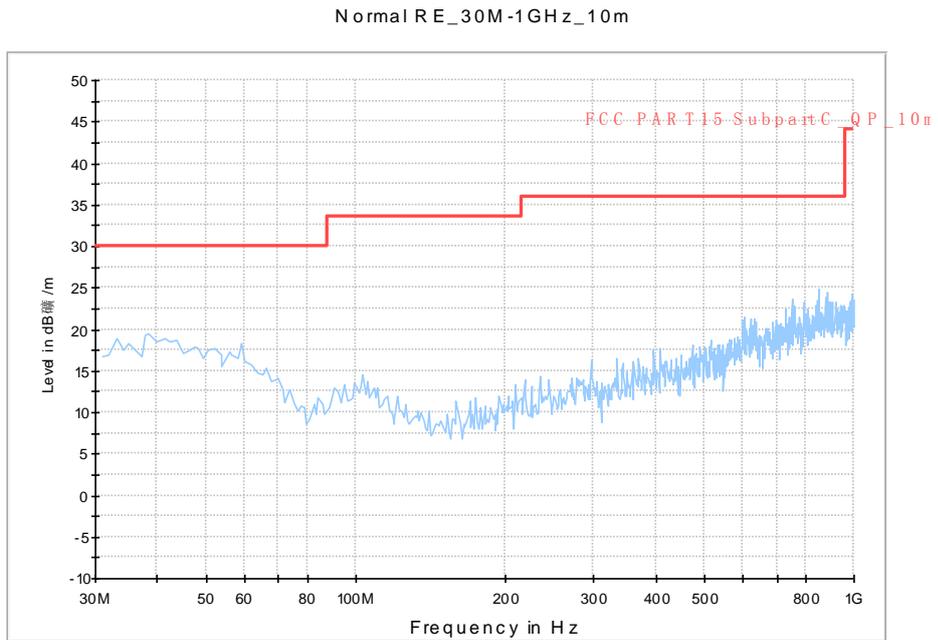


Fig. 61 Radiated Spurious Emission (802.11a, ch64, 30 MHz-1 GHz)

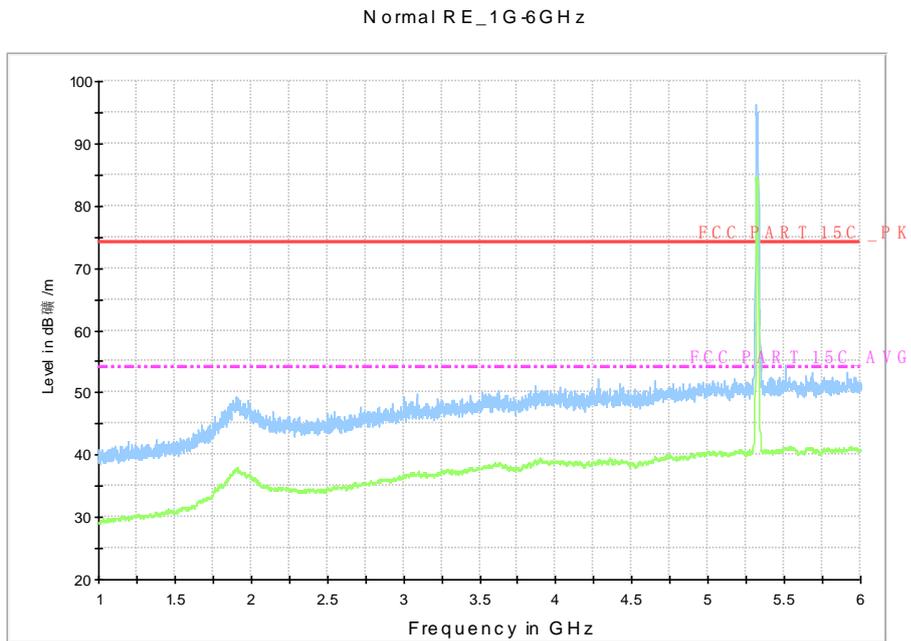


Fig. 62 Radiated Spurious Emission (802.11a, ch64, 1 GHz-6 GHz)

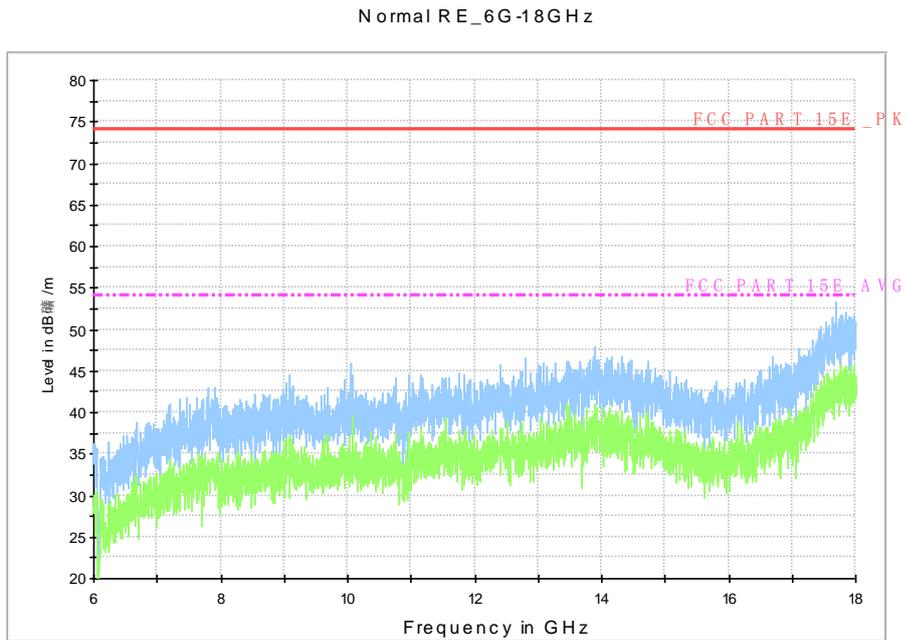


Fig. 63 Radiated Spurious Emission (802.11a, ch64, 6 GHz-18 GHz)

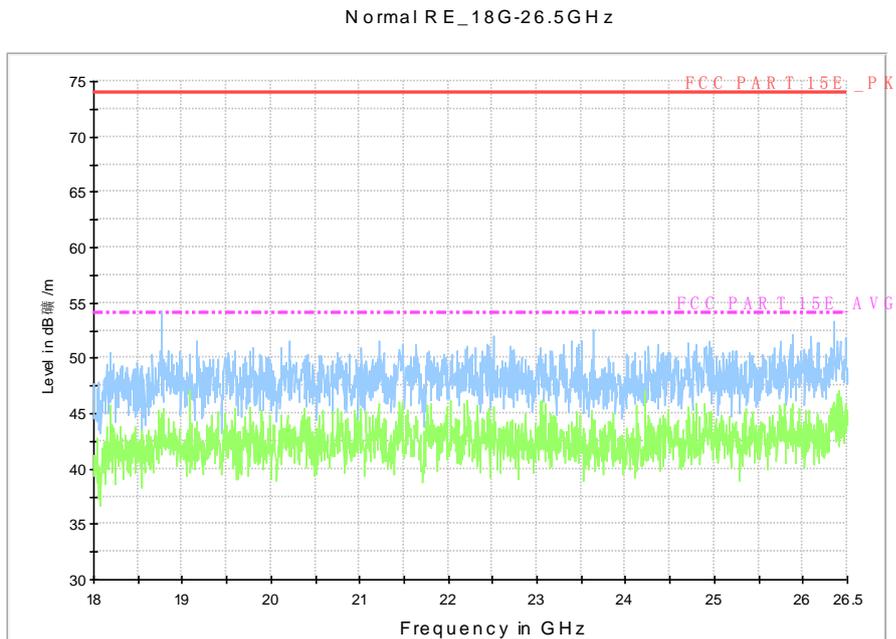


Fig. 64 Radiated Spurious Emission (802.11a, U-NII 2, 18 GHz-26.5 GHz)

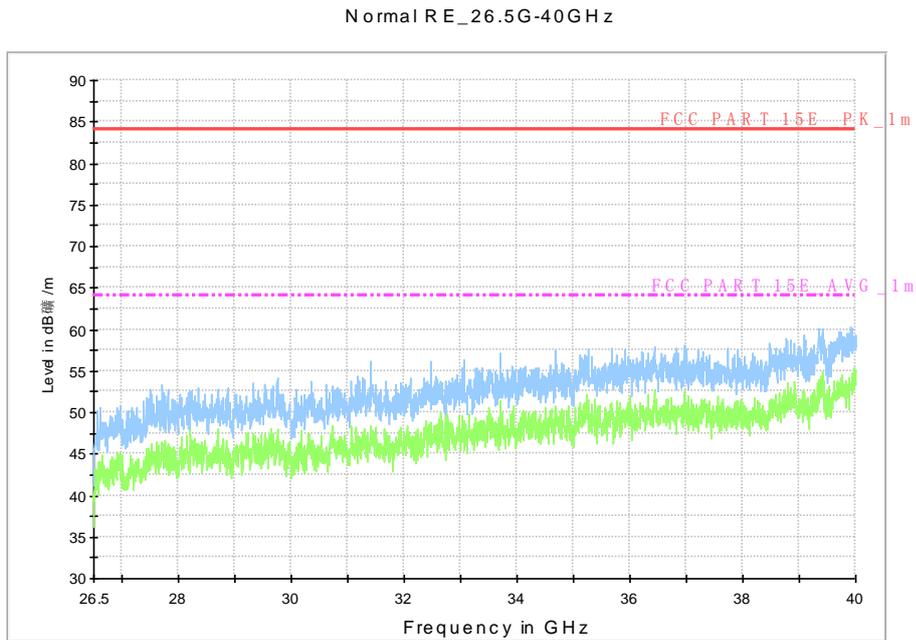


Fig. 65 Radiated Spurious Emission (802.11a, U-NII 2, 26.5 GHz-40 GHz)

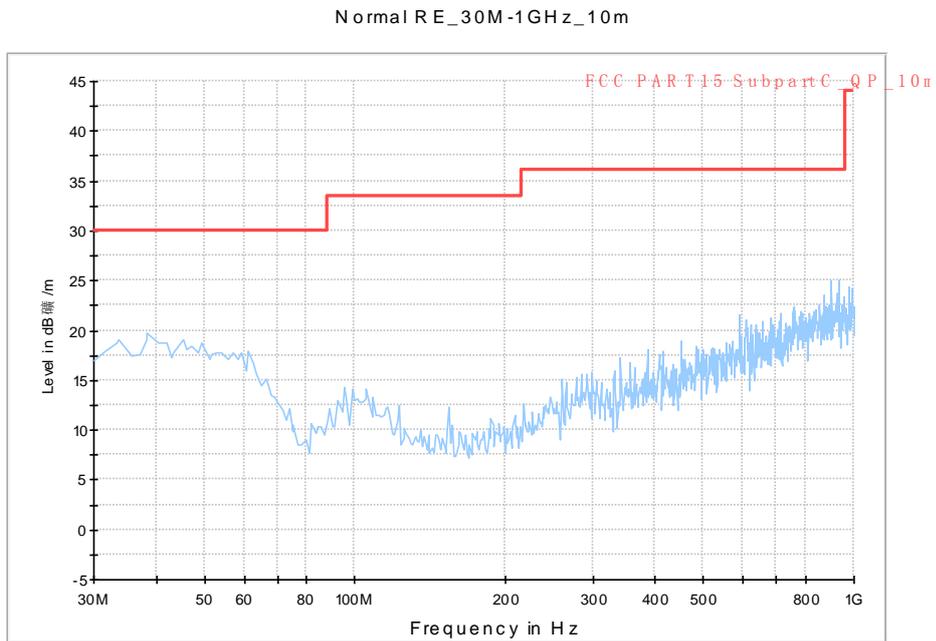


Fig. 66 Radiated Spurious Emission (802.11a, ch100, 30 MHz-1 GHz)

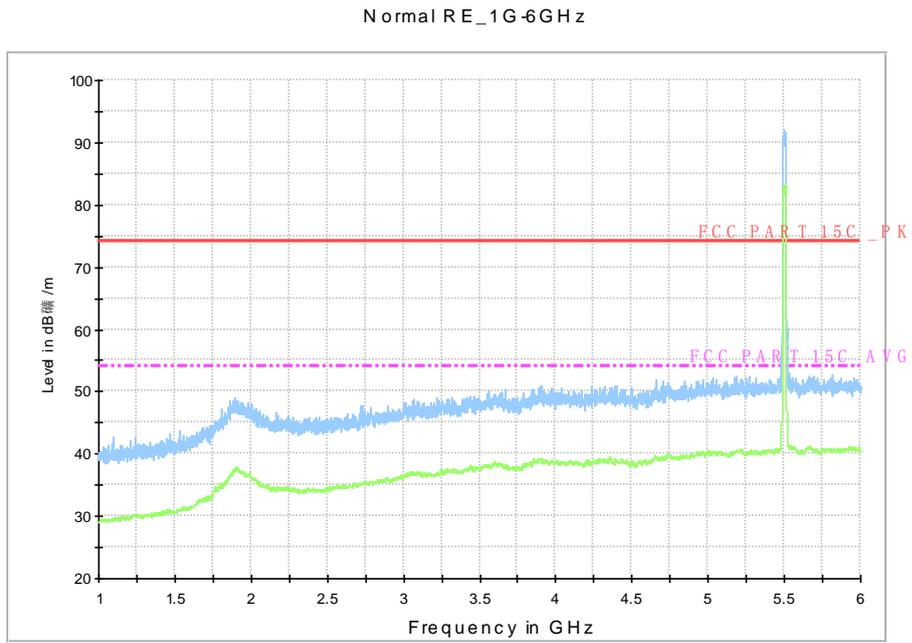


Fig. 67 Radiated Spurious Emission (802.11a, ch100, 1 GHz-6 GHz)

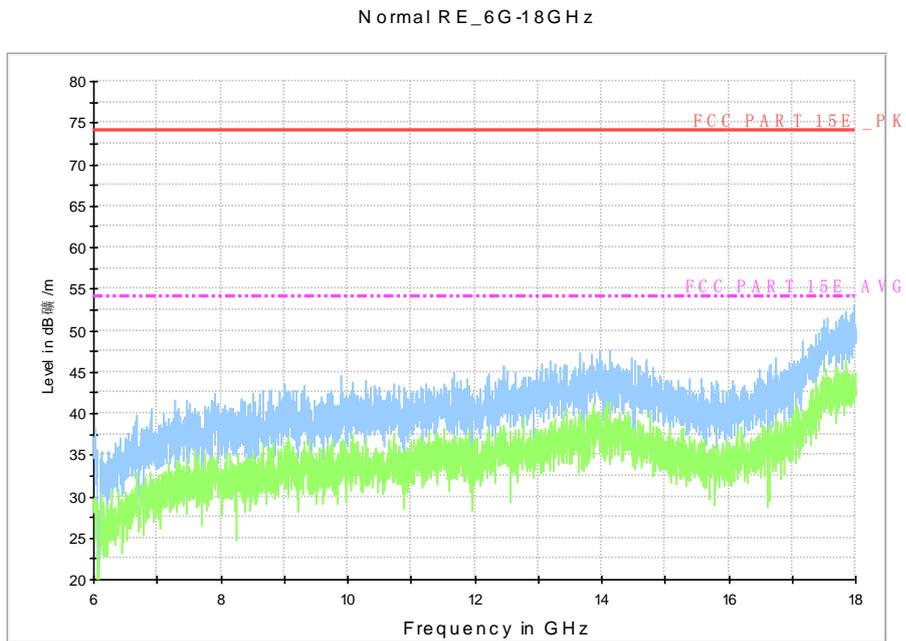


Fig. 68 Radiated Spurious Emission (802.11a, ch100, 6 GHz-18 GHz)

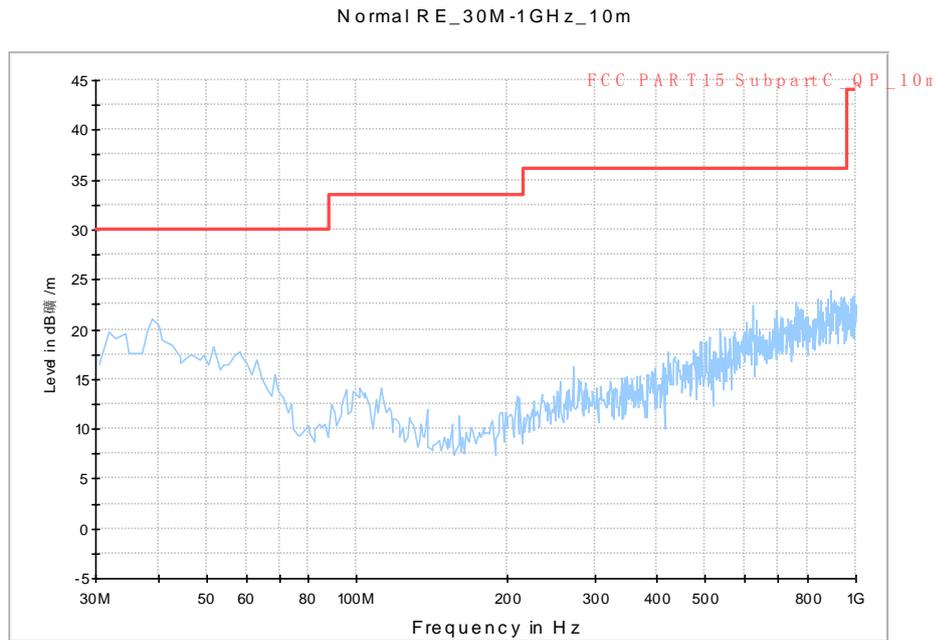


Fig. 69 Radiated Spurious Emission (802.11a, ch116, 30 MHz-1 GHz)

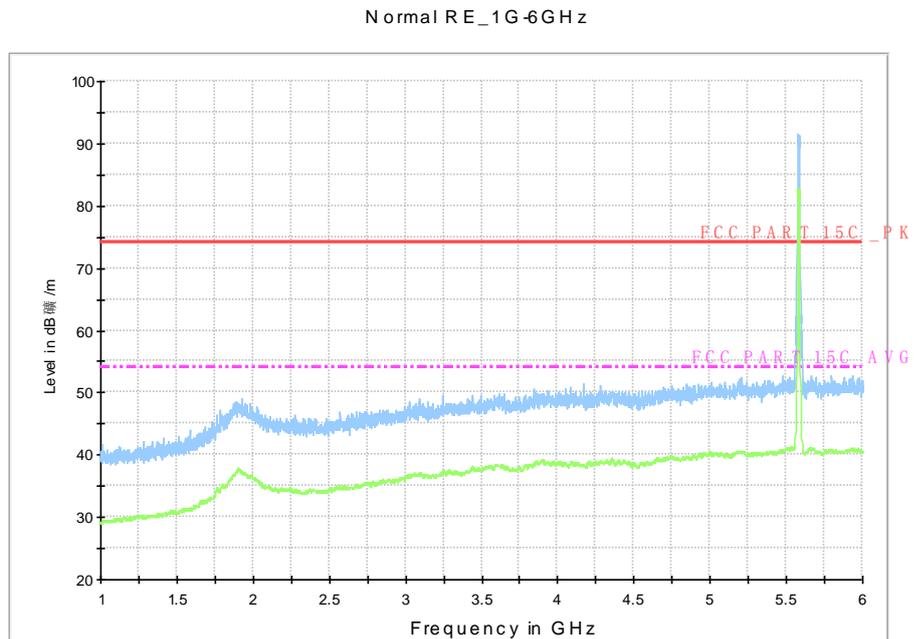


Fig. 70 Radiated Spurious Emission (802.11a, ch116, 1 GHz-6 GHz)

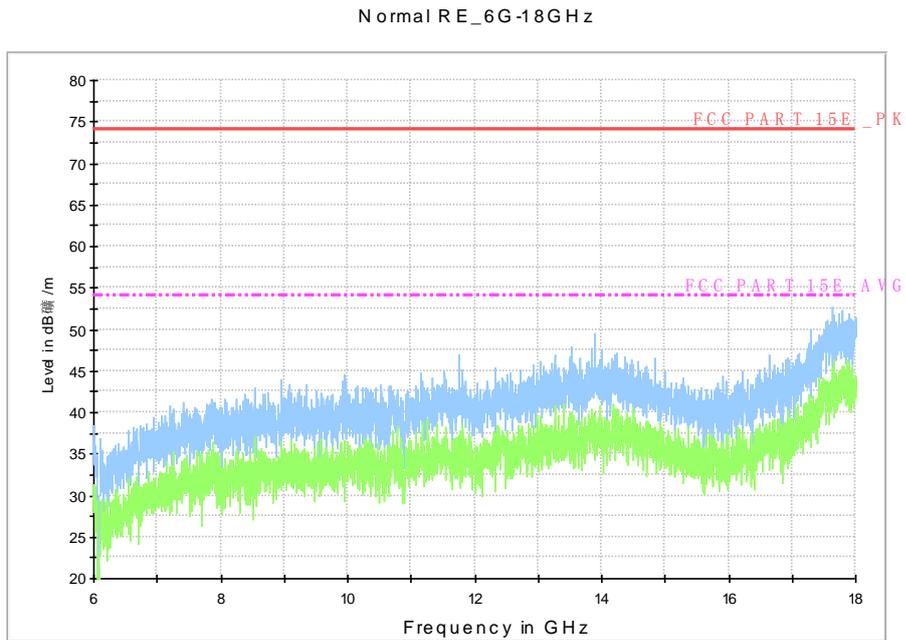


Fig. 71 Radiated Spurious Emission (802.11a, ch116, 6 GHz-18 GHz)

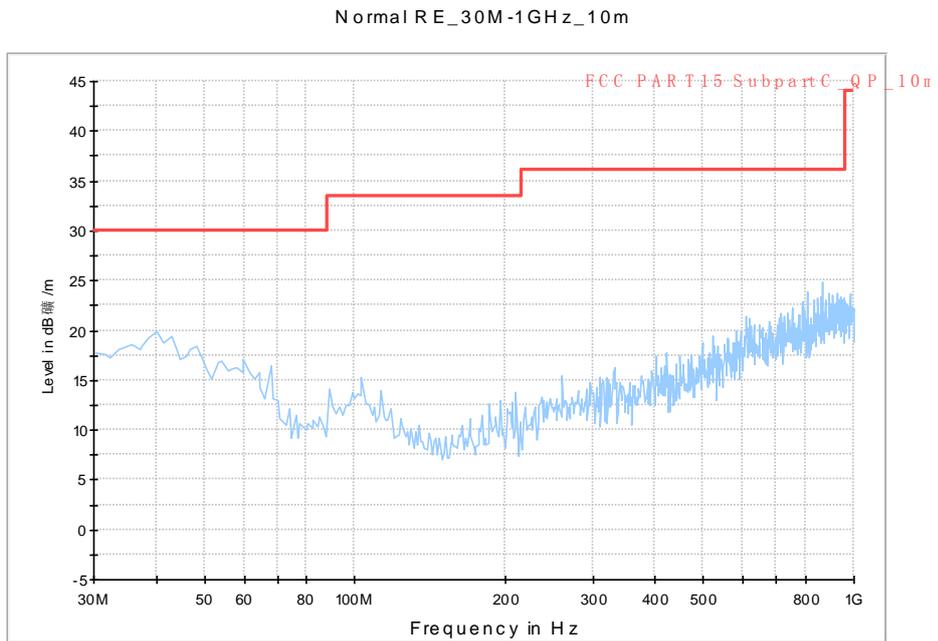


Fig. 72 Radiated Spurious Emission (802.11a, ch140, 30 MHz-1 GHz)

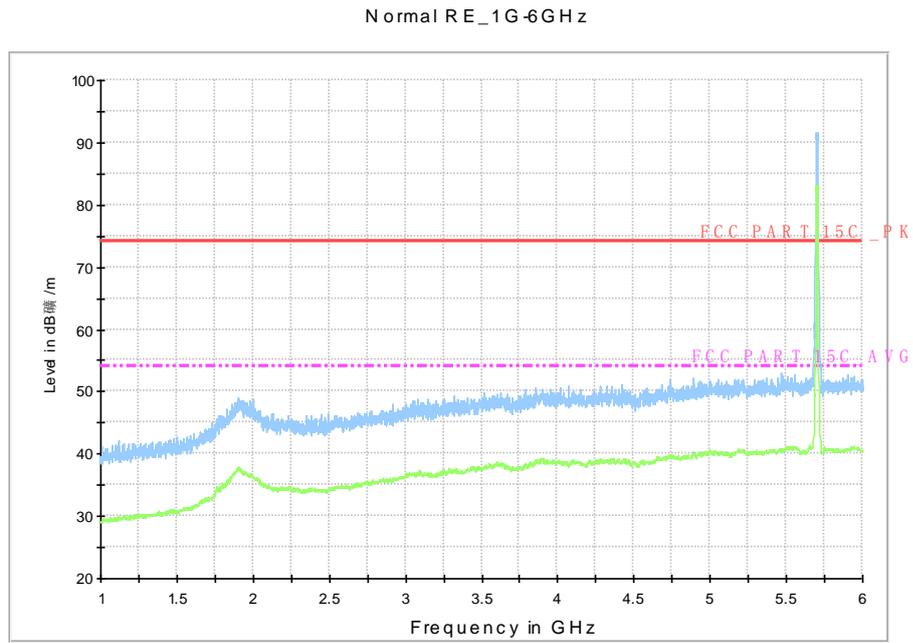


Fig. 73 Radiated Spurious Emission (802.11a, ch140, 1 GHz-6 GHz)

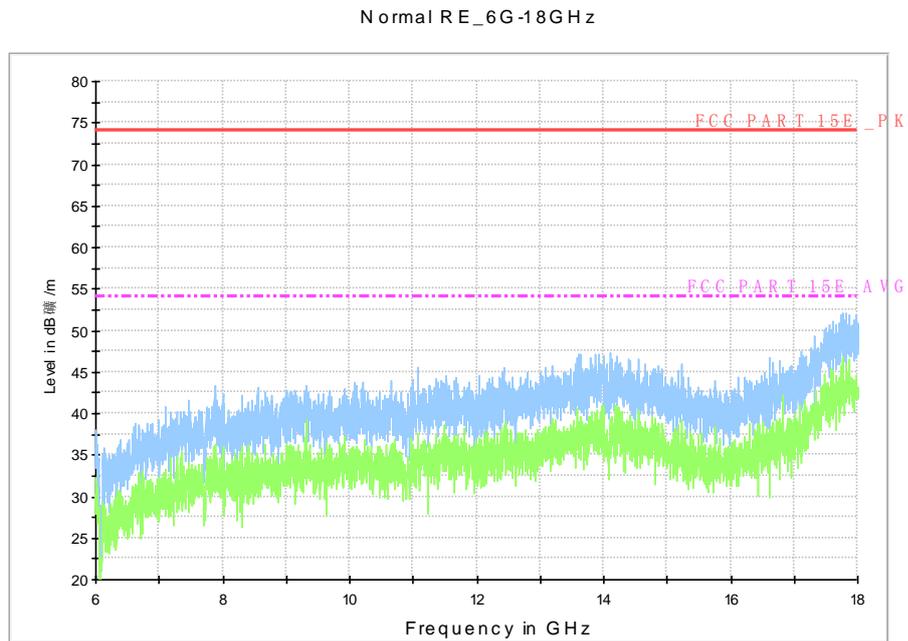


Fig. 74 Radiated Spurious Emission (802.11a, ch140, 6 GHz-18 GHz)

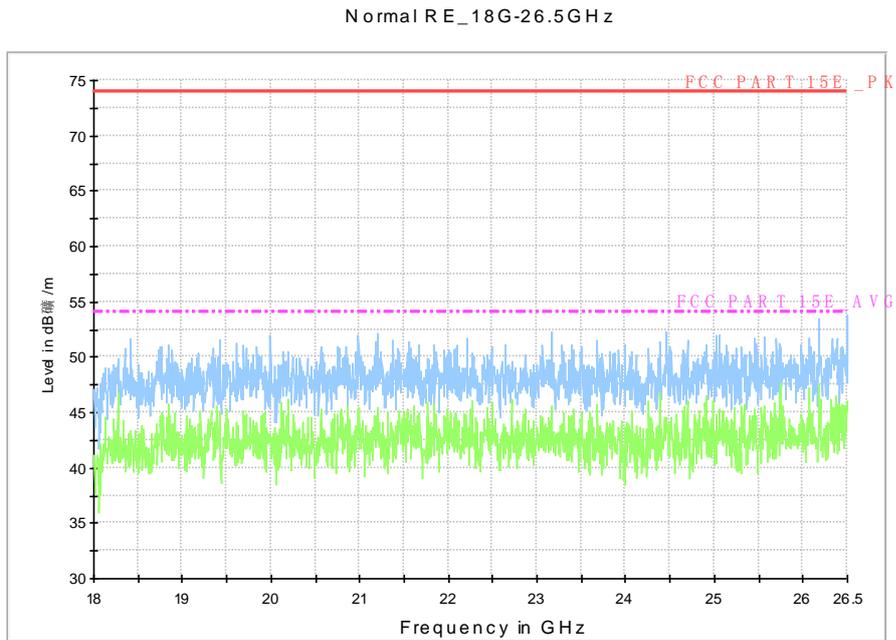


Fig. 75 Radiated Spurious Emission (802.11a, U-NII 3, 18 GHz-26.5 GHz)

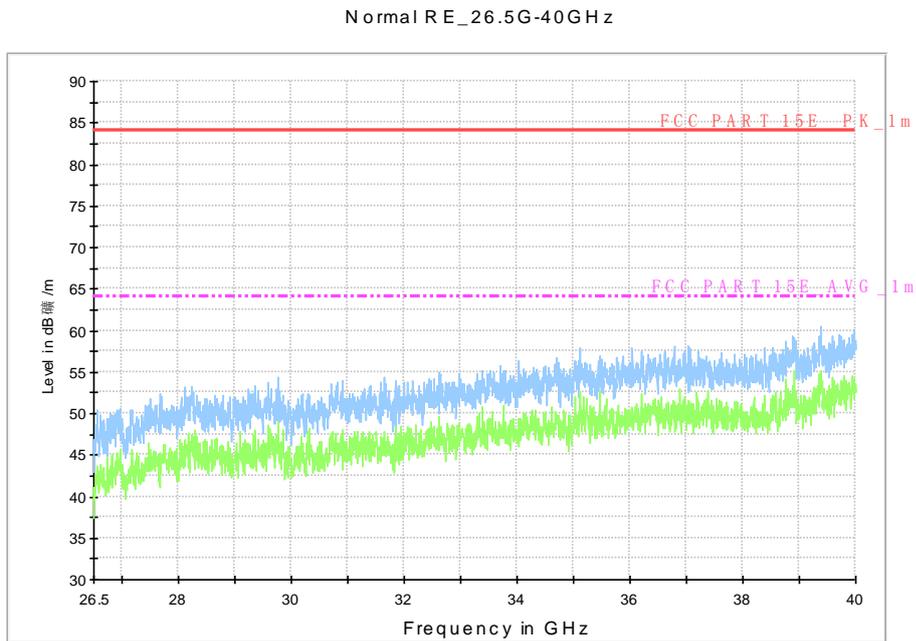


Fig. 76 Radiated Spurious Emission (802.11a, U-NII 3, 26.5 GHz-40 GHz)

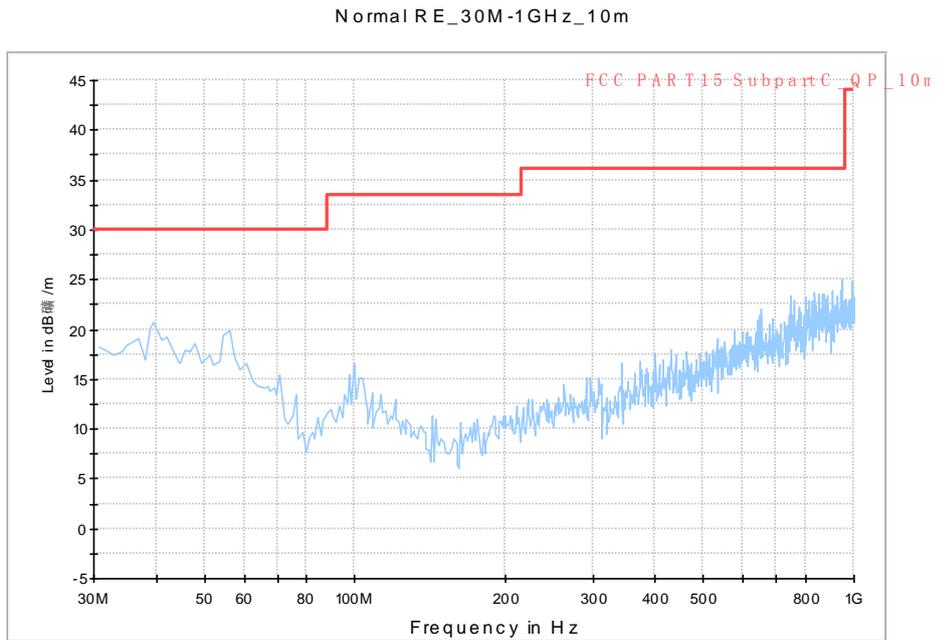


Fig. 77 Radiated Spurious Emission (802.11n-HT20, ch36, 30 MHz-1 GHz)

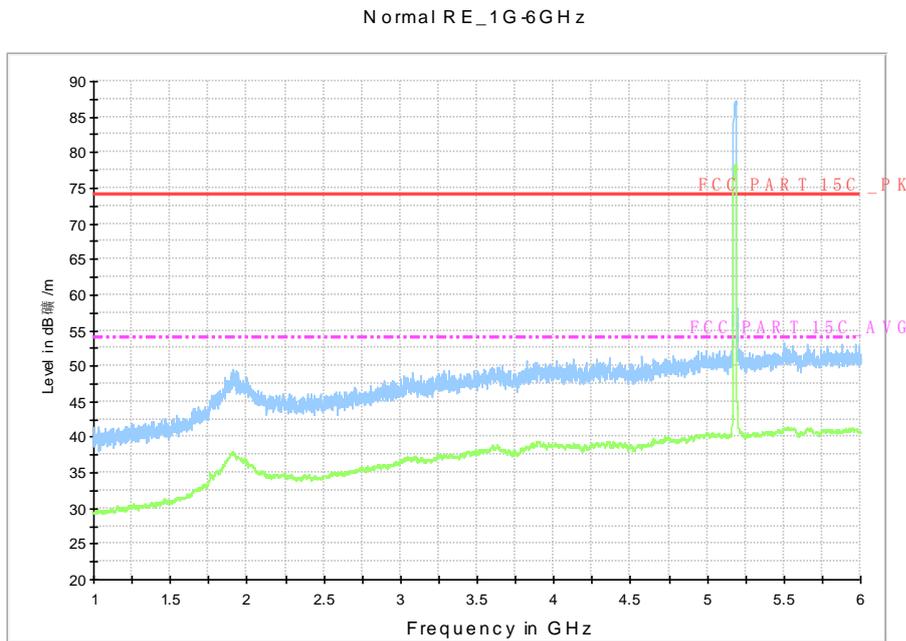


Fig. 78 Radiated Spurious Emission (802.11n-HT20, ch36, 1 GHz-6 GHz)

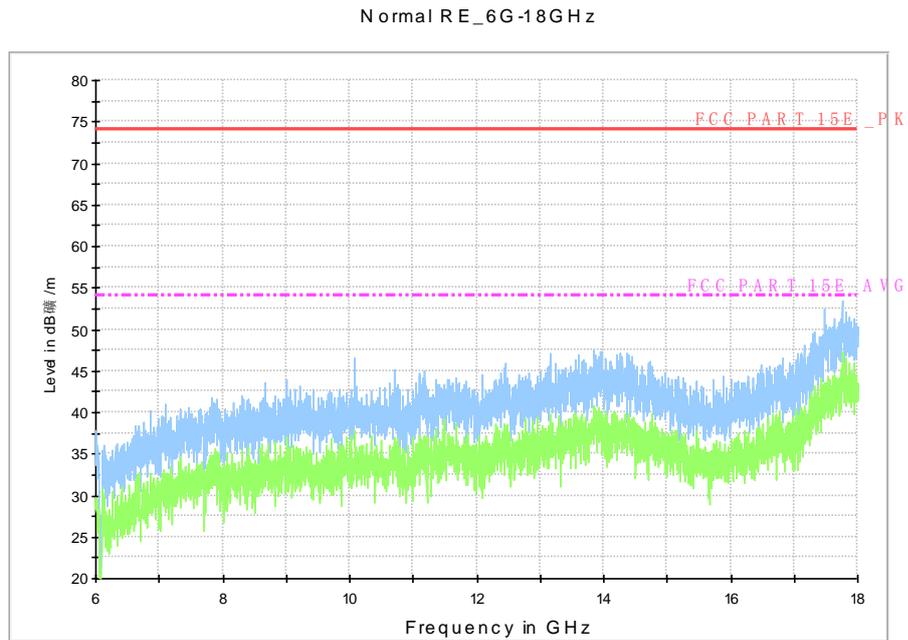


Fig. 79 Radiated Spurious Emission (802.11n-HT20, ch36, 6 GHz-18 GHz)

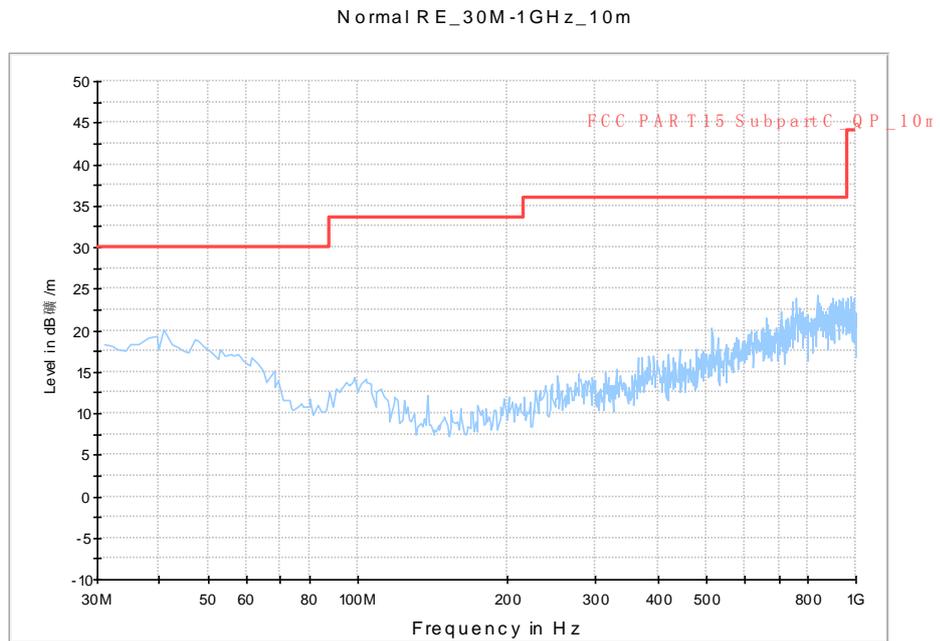


Fig. 80 Radiated Spurious Emission (802.11n-HT20, ch40, 30 MHz-1 GHz)

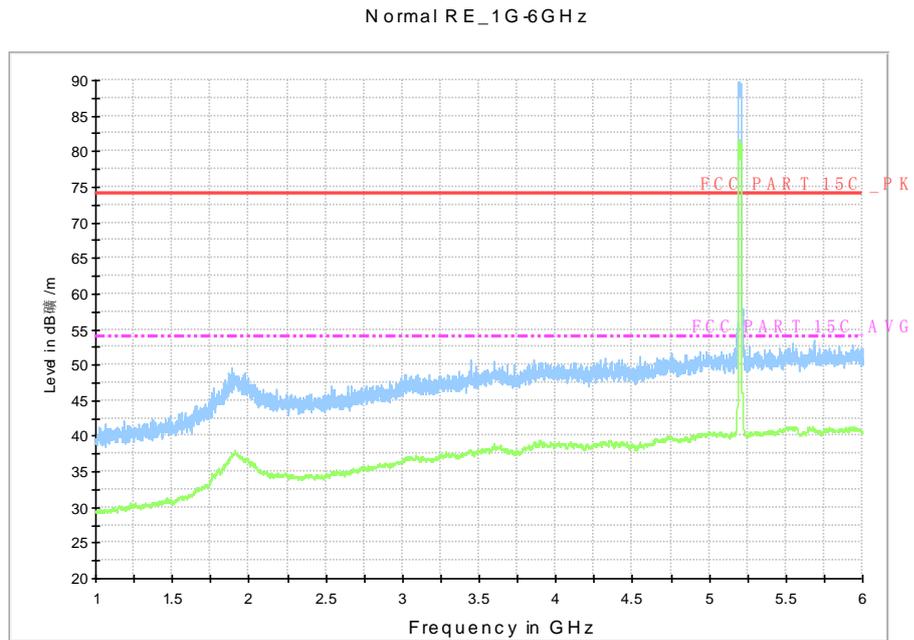


Fig. 81 Radiated Spurious Emission (802.11n-HT20, ch40, 1 GHz-6 GHz)

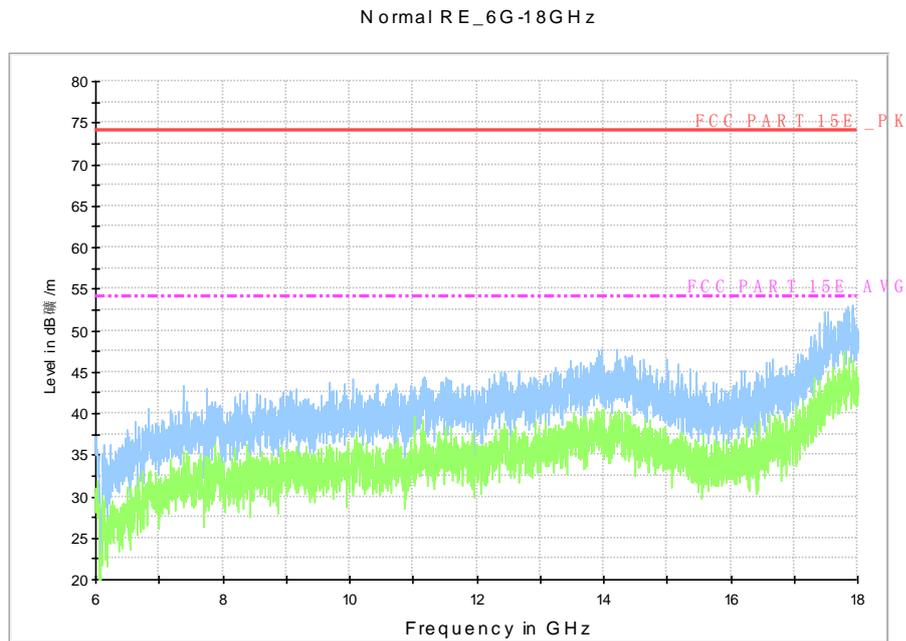


Fig. 82 Radiated Spurious Emission (802.11n-HT20, ch40, 6 GHz-18 GHz)

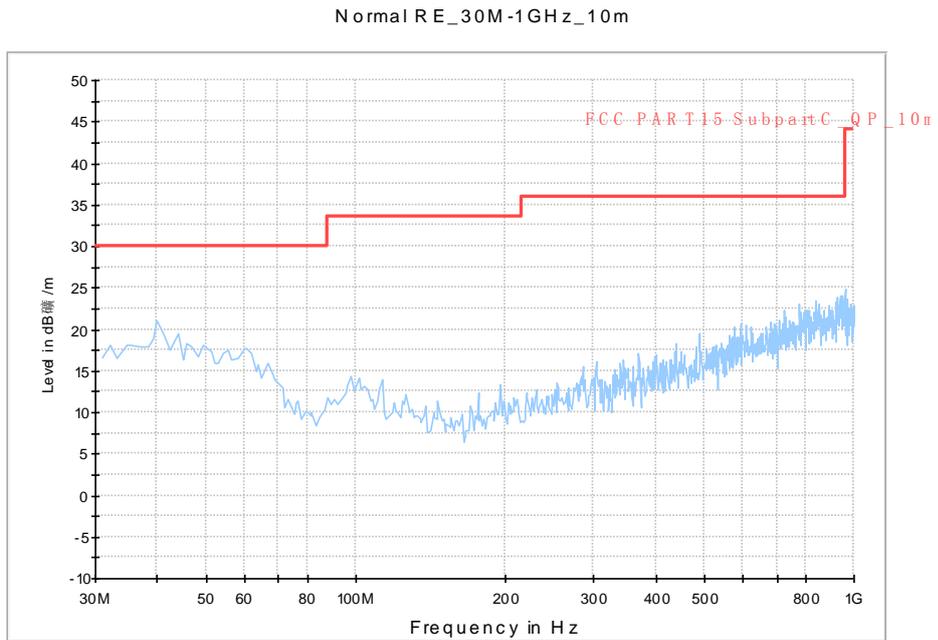


Fig. 83 Radiated Spurious Emission (802.11n-HT20, ch48, 30 MHz-1 GHz)

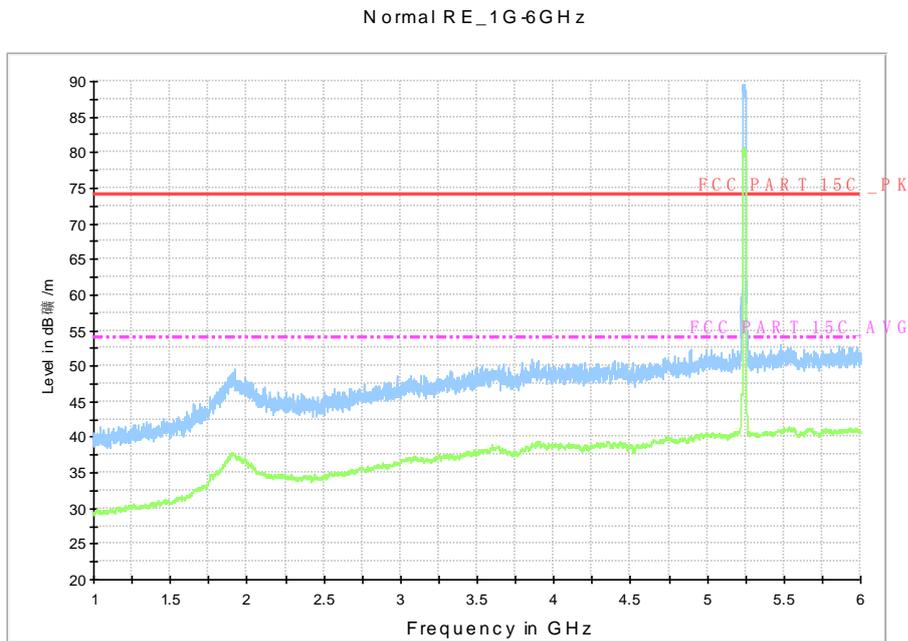


Fig. 84 Radiated Spurious Emission (802.11n-HT20, ch48, 1 GHz-6 GHz)

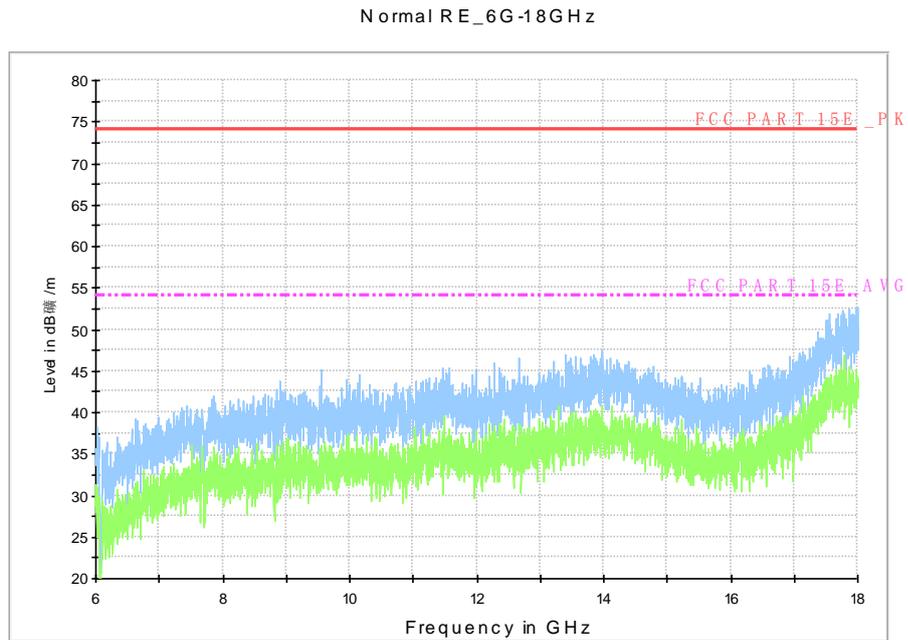


Fig. 85 Radiated Spurious Emission (802.11n-HT20, ch48, 6 GHz-18 GHz)

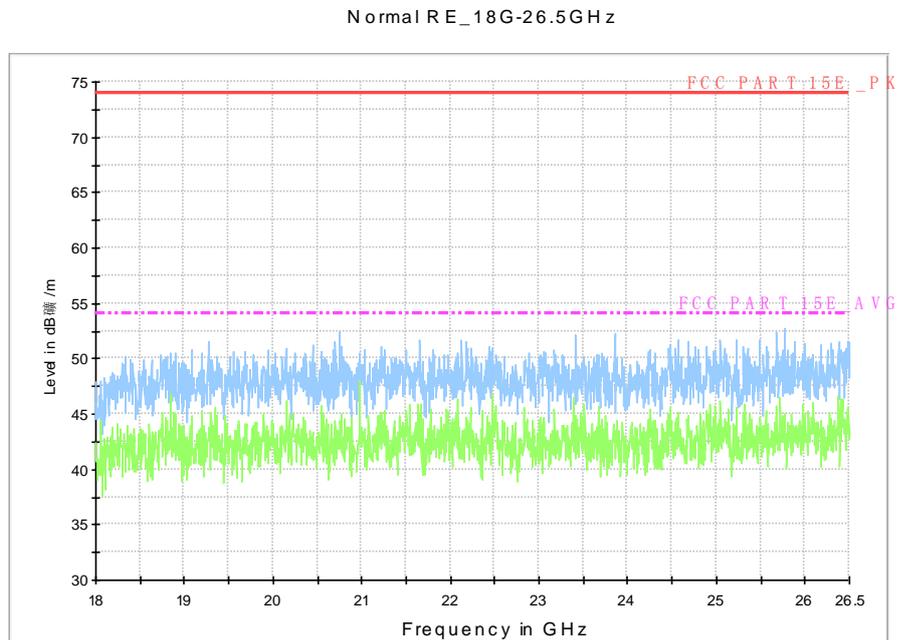


Fig. 86 Radiated Spurious Emission (802.11n-HT20, U-NII 1, 18 GHz-26.5 GHz)

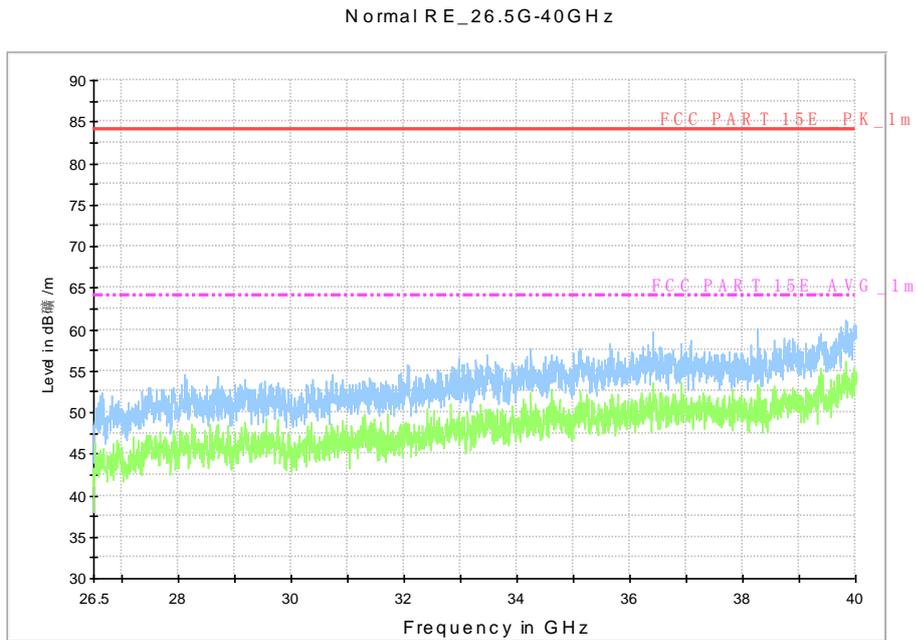


Fig. 87 Radiated Spurious Emission (802.11n-HT20, U-NII 1, 26.5 GHz-40 GHz)

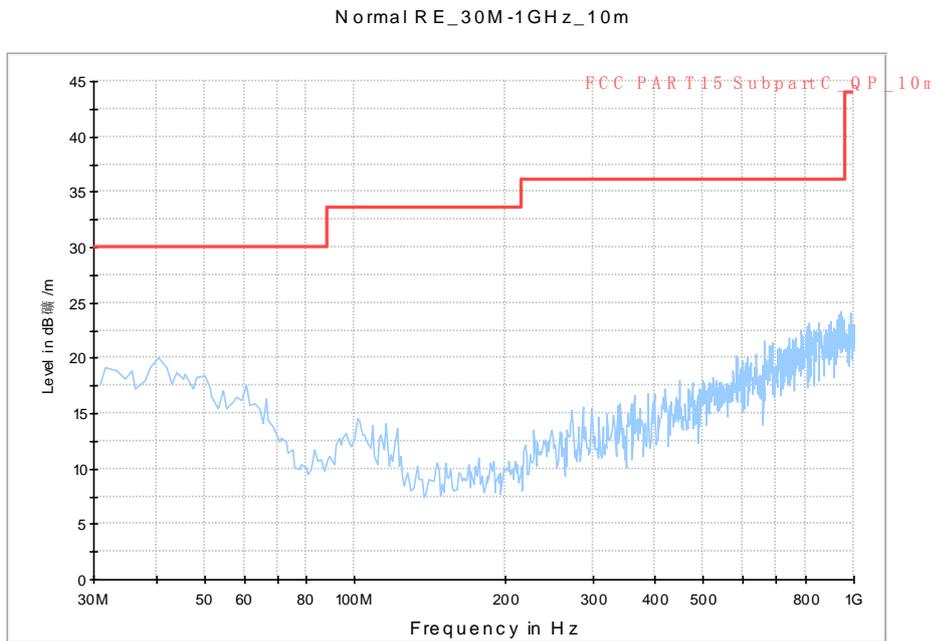


Fig. 88 Radiated Spurious Emission (802.11n-HT20, ch52, 30 MHz-1 GHz)

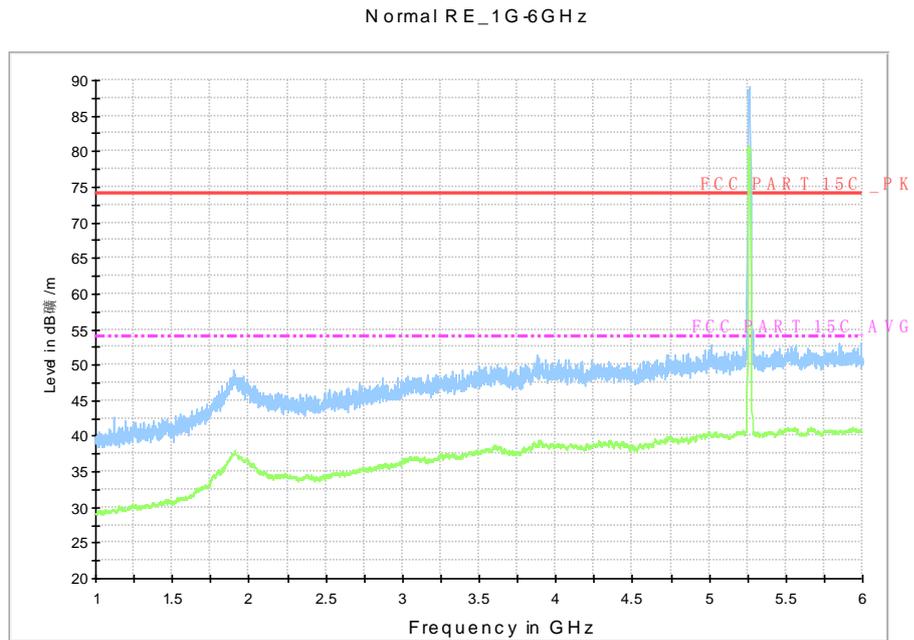


Fig. 89 Radiated Spurious Emission (802.11n-HT20, ch52, 1 GHz-6 GHz)

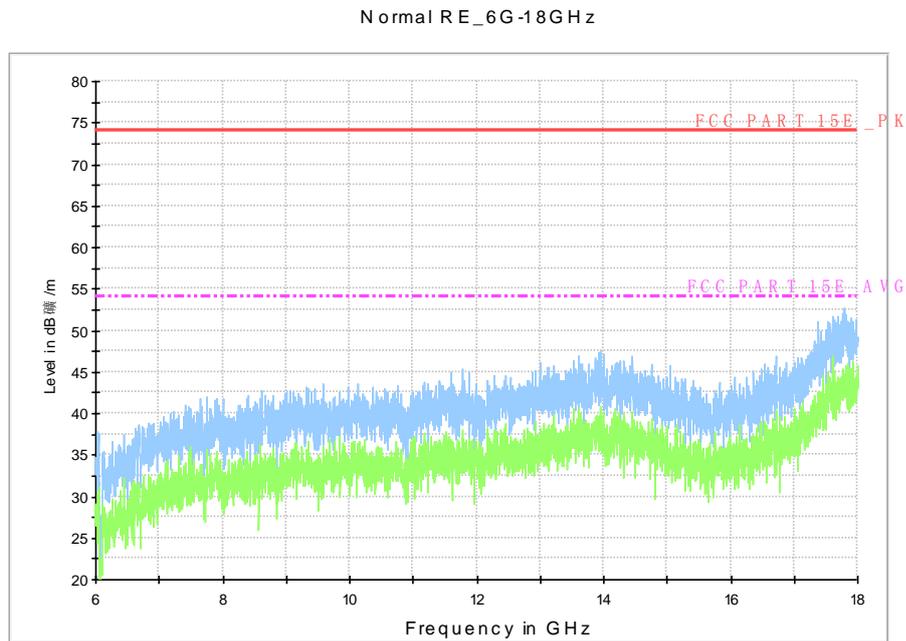


Fig. 90 Radiated Spurious Emission (802.11n-HT20, ch52, 6 GHz-18 GHz)

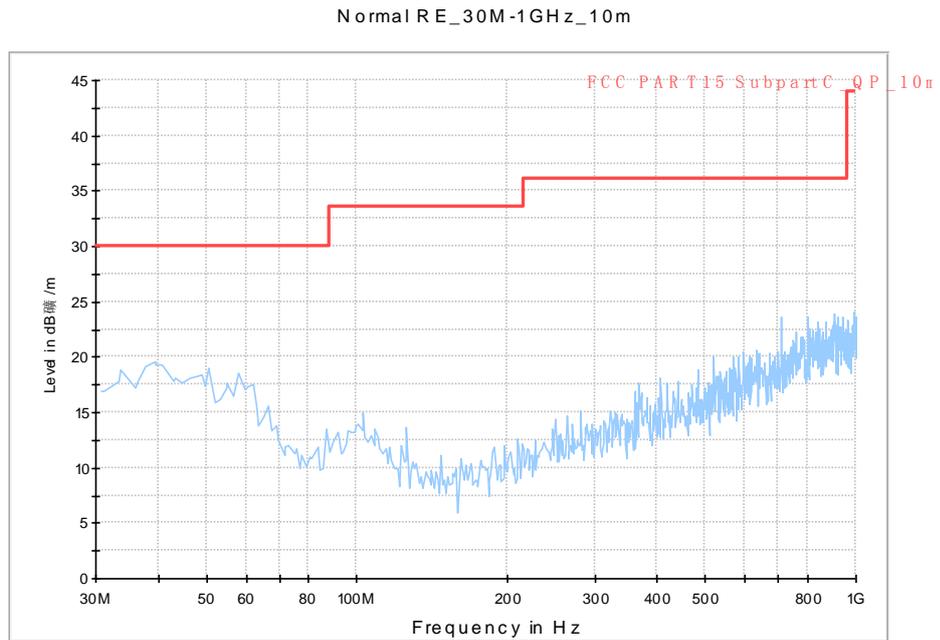


Fig. 91 Radiated Spurious Emission (802.11n-HT20 ch56, 30 MHz-1 GHz)

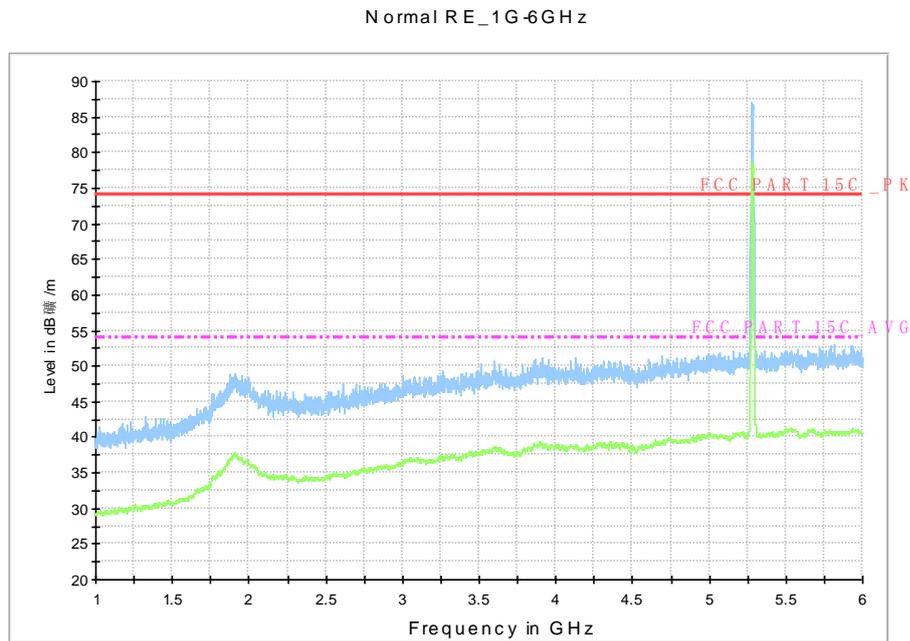


Fig. 92 Radiated Spurious Emission (802.11n-HT20, ch56, 1 GHz-6 GHz)

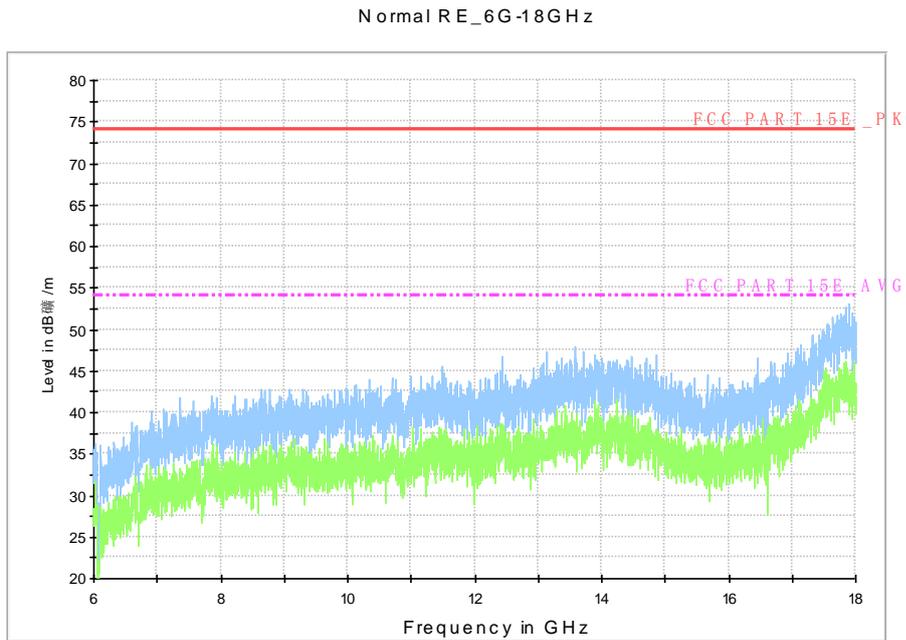


Fig. 93 Radiated Spurious Emission (802.11n-HT20, ch56, 6 GHz-18 GHz)

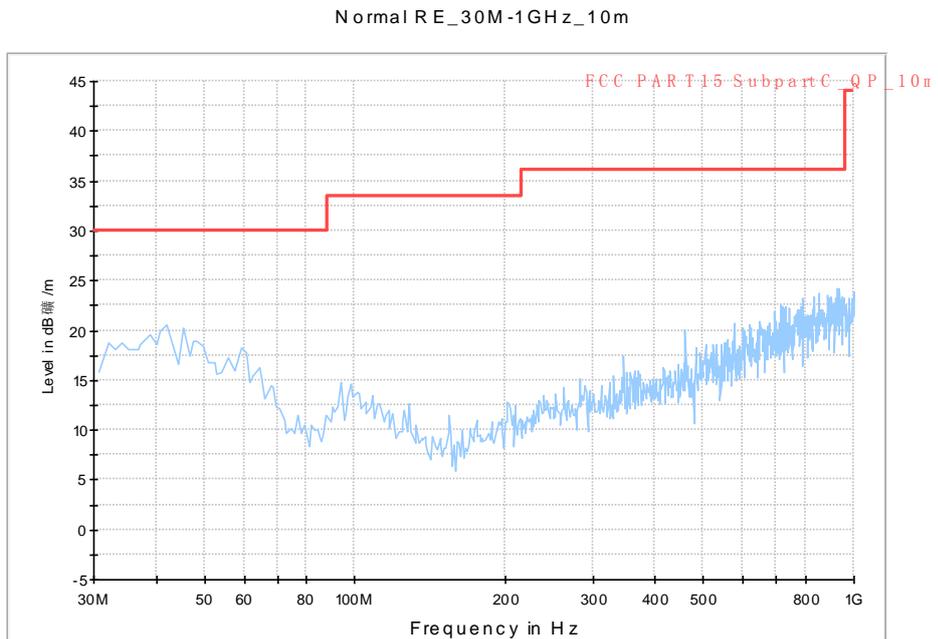


Fig. 94 Radiated Spurious Emission (802.11n-HT20, ch64, 30 MHz-1 GHz)

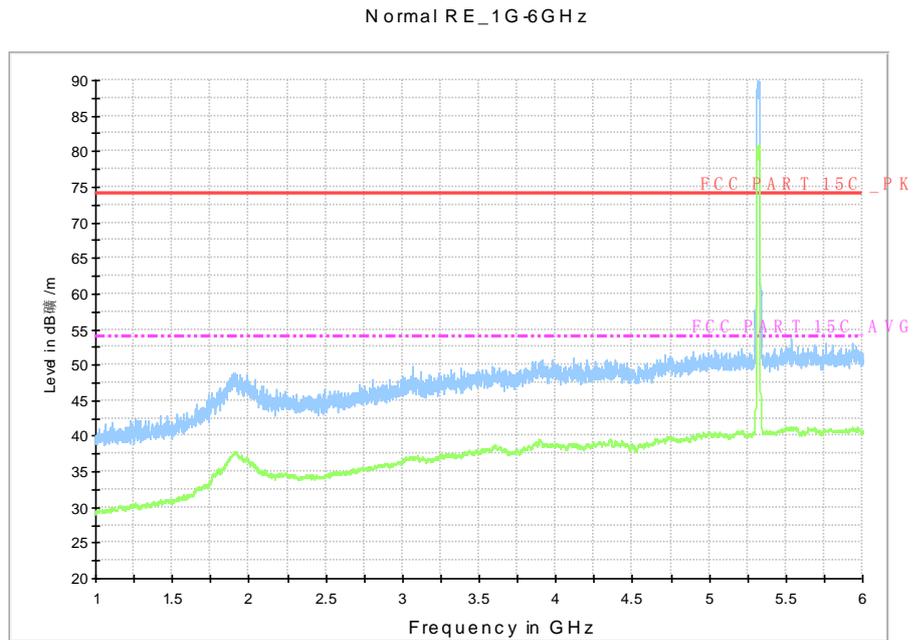


Fig. 95 Radiated Spurious Emission (802.11n-HT20, ch64, 1 GHz-6 GHz)

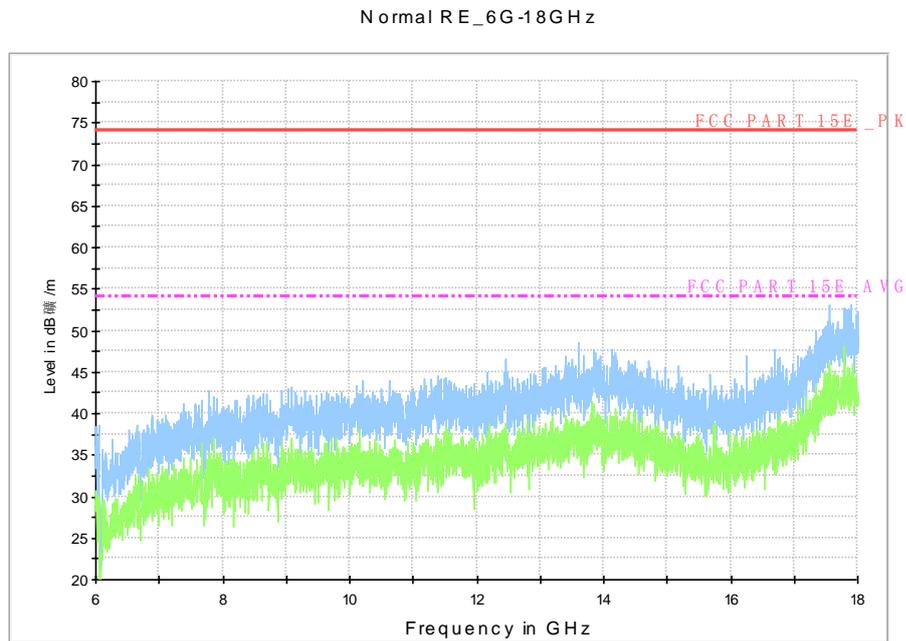


Fig. 96 Radiated Spurious Emission (802.11n-HT20, ch64, 6 GHz-18 GHz)

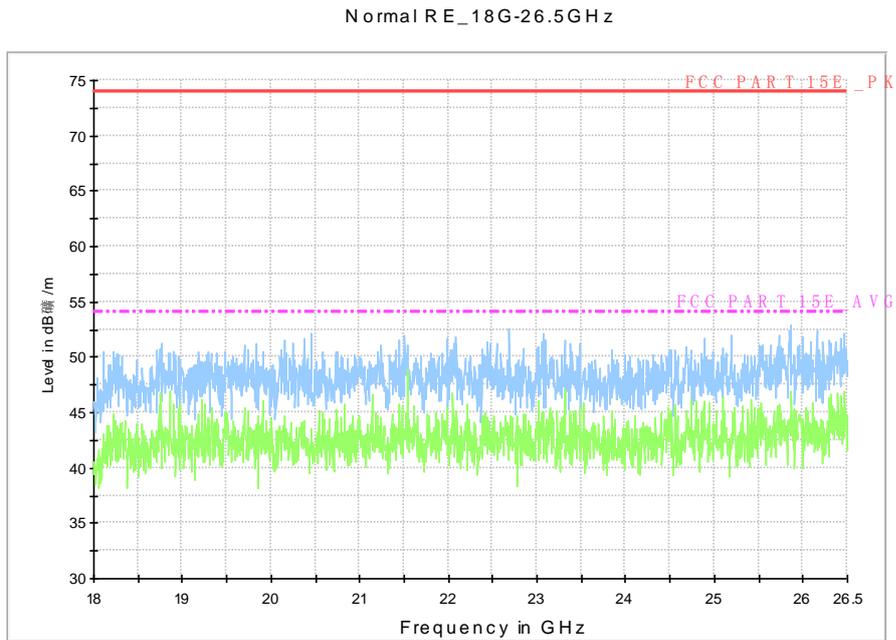


Fig. 97 Radiated Spurious Emission (802.11n-HT20, U-NII 2, 18 GHz-26.5 GHz)

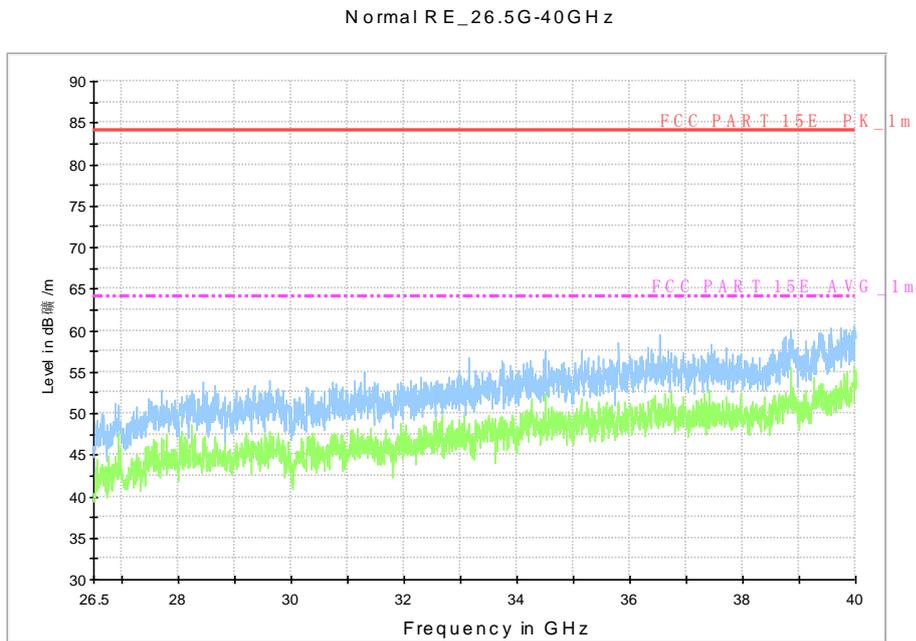


Fig. 98 Radiated Spurious Emission (802.11n-HT20, U-NII 2, 26.5 GHz-40 GHz)

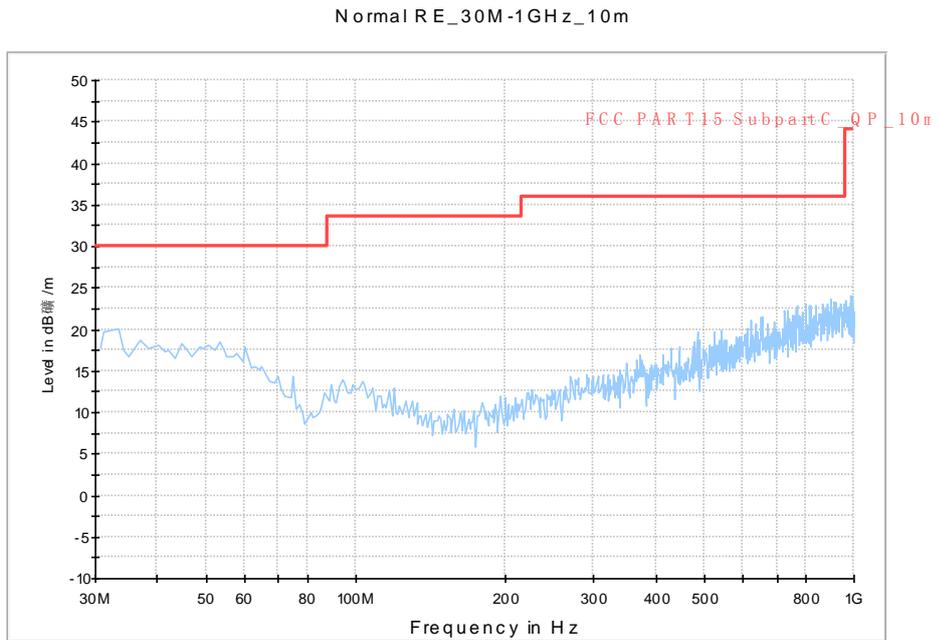


Fig. 99 Radiated Spurious Emission (802.11n-HT20, ch100, 30 MHz-1 GHz)

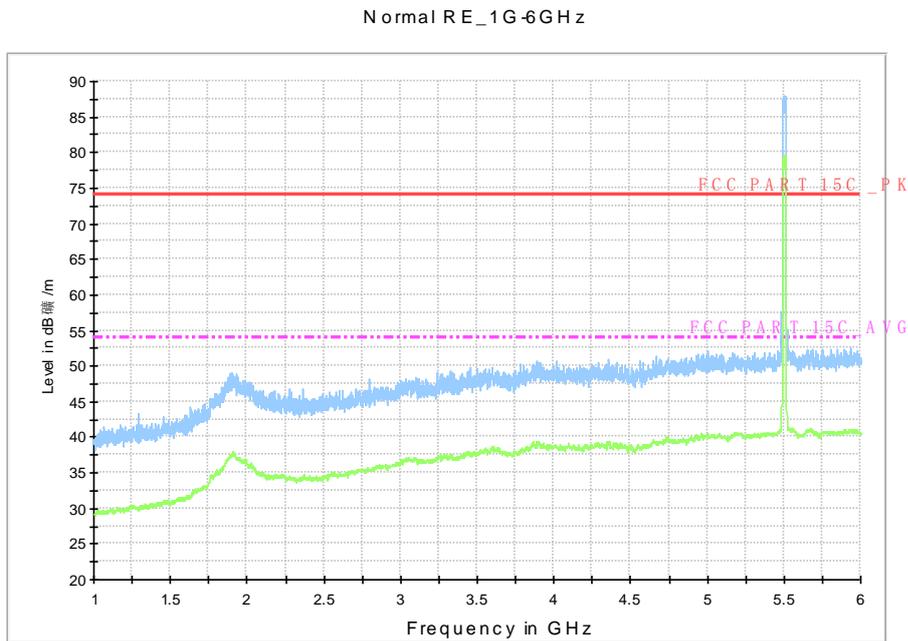


Fig. 100 Radiated Spurious Emission (802.11n-HT20, ch100, 1 GHz-6 GHz)

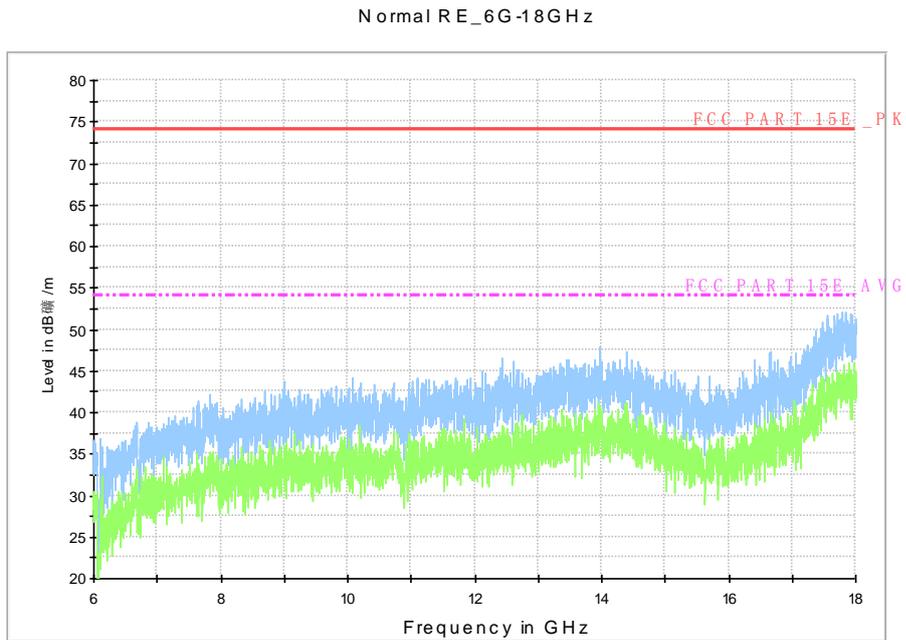


Fig. 101 Radiated Spurious Emission (802.11n-HT20, ch100, 6 GHz-18 GHz)

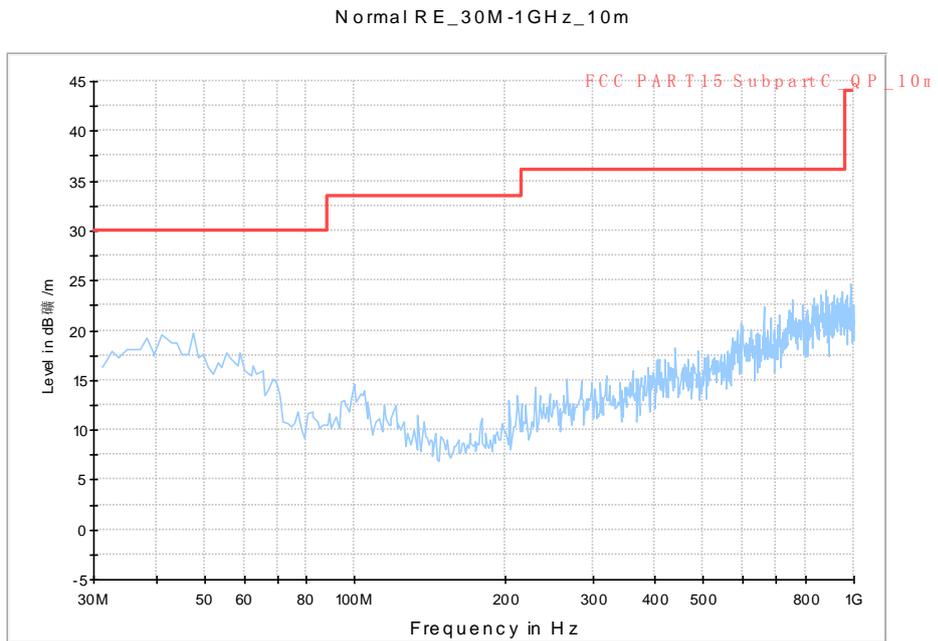


Fig. 102 Radiated Spurious Emission (802.11n-HT20, ch116, 30 MHz-1 GHz)

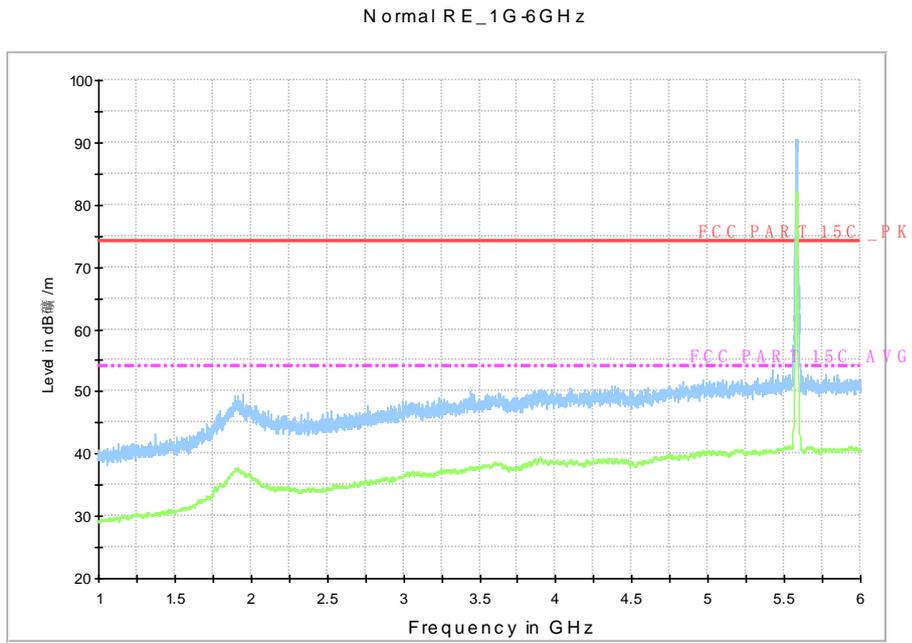


Fig. 103 Radiated Spurious Emission (802.11n-HT20, ch116, 1 GHz-6 GHz)

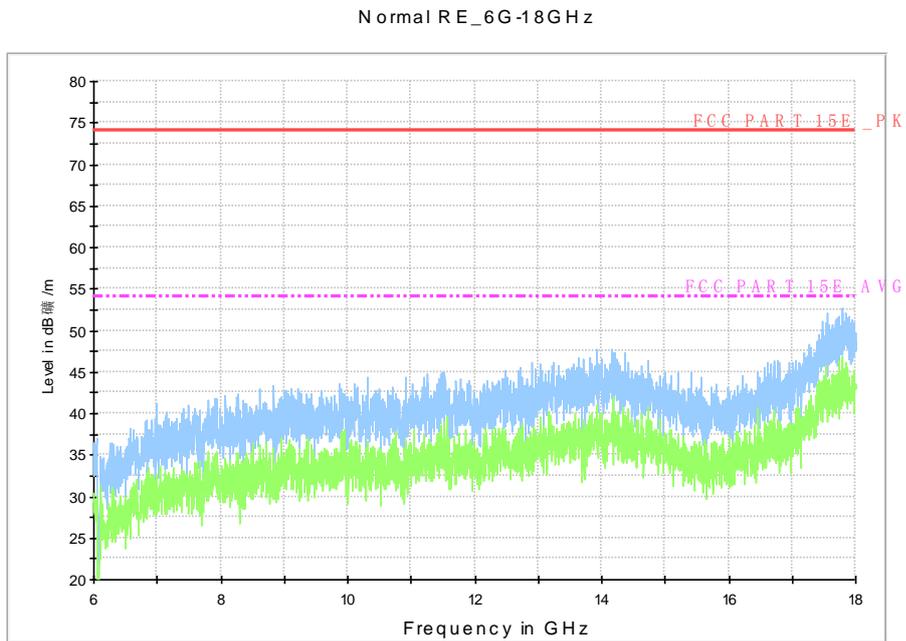


Fig. 104 Radiated Spurious Emission (802.11n-HT20, ch116, 6 GHz-18 GHz)

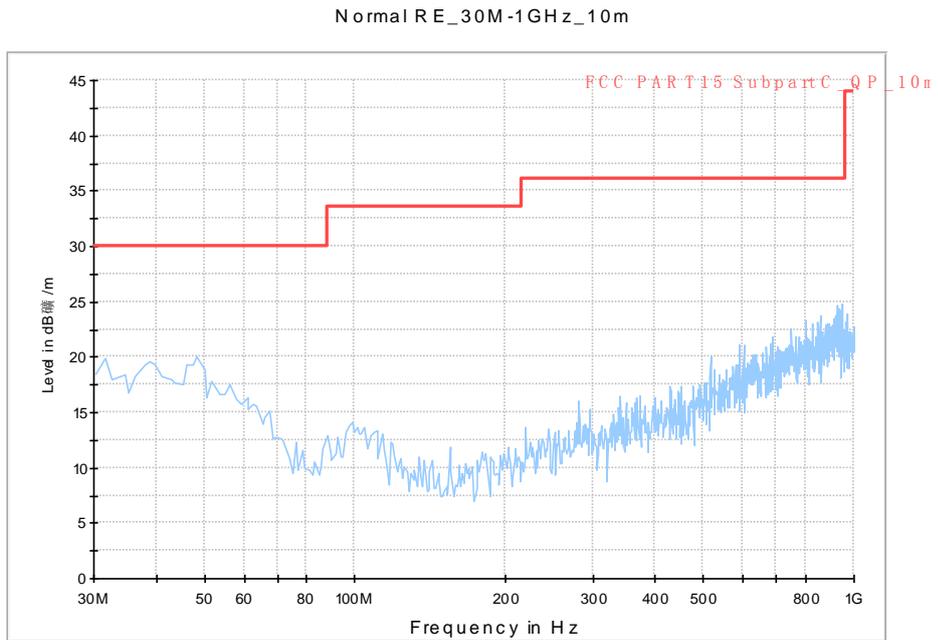


Fig. 105 Radiated Spurious Emission (802.11n-HT20, ch140, 30 MHz-1 GHz)

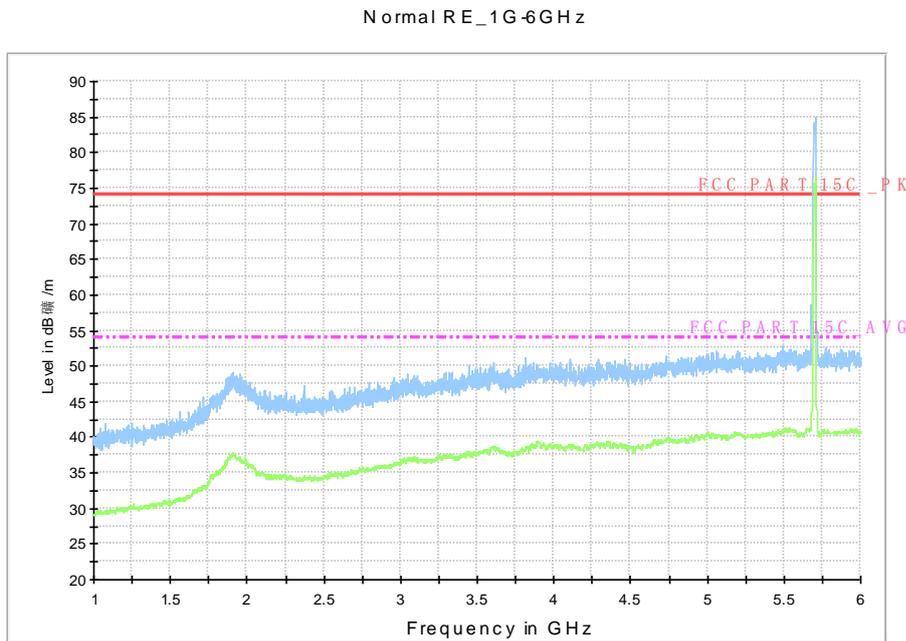


Fig. 106 Radiated Spurious Emission (802.11n-HT20, ch140, 1 GHz-6 GHz)

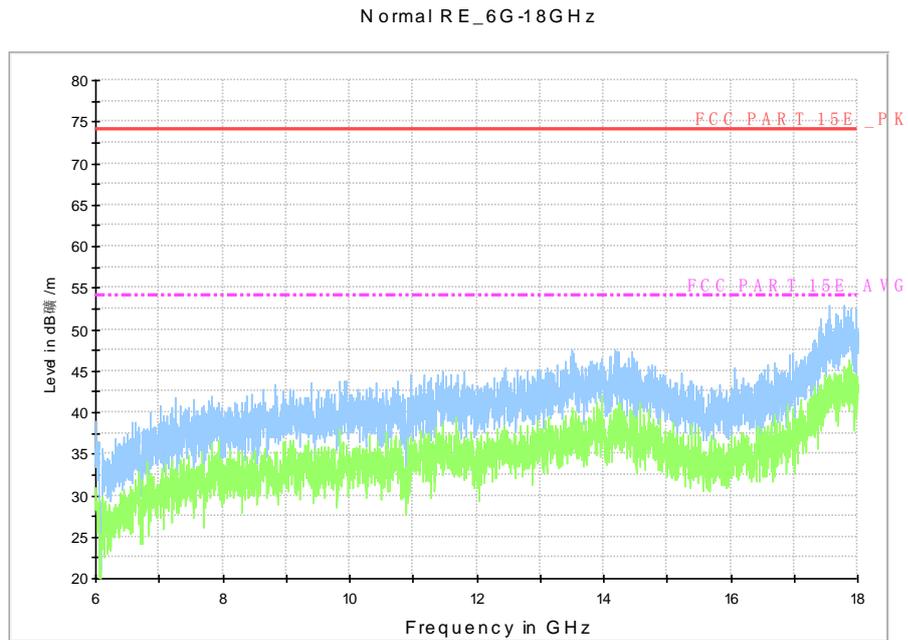


Fig. 107 Radiated Spurious Emission (802.11n-HT20, ch140, 6 GHz-18 GHz)

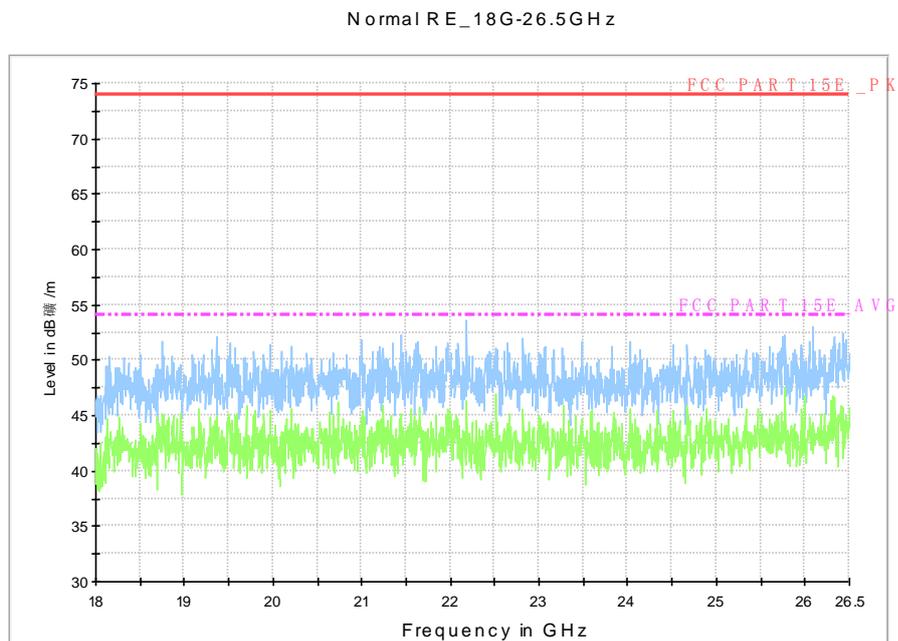


Fig. 108 Radiated Spurious Emission (802.11n-HT20, U-NII 3, 18 GHz-26.5 GHz)

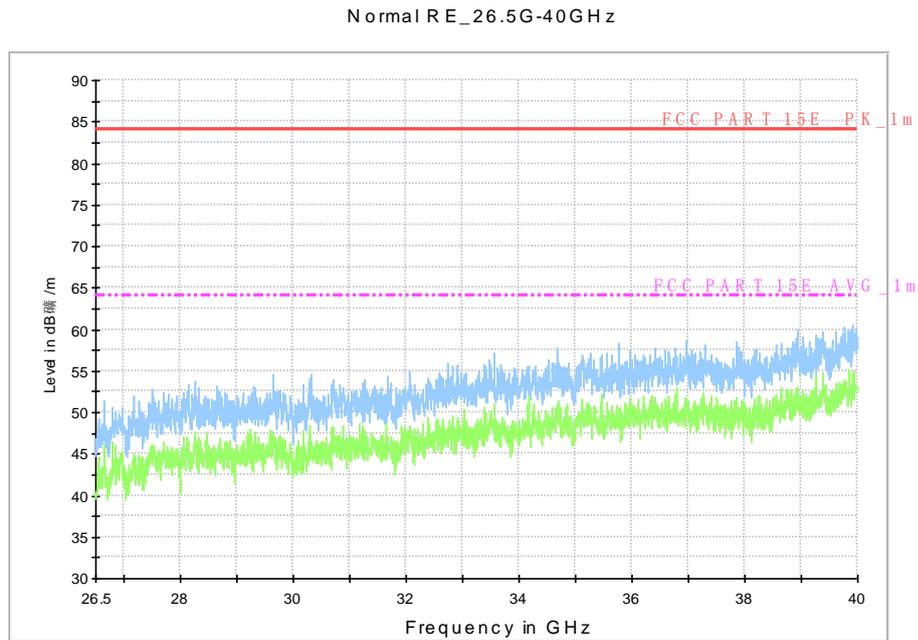


Fig. 109 Radiated Spurious Emission (802.11n-HT20, U-NII 3, 26.5 GHz-40 GHz)

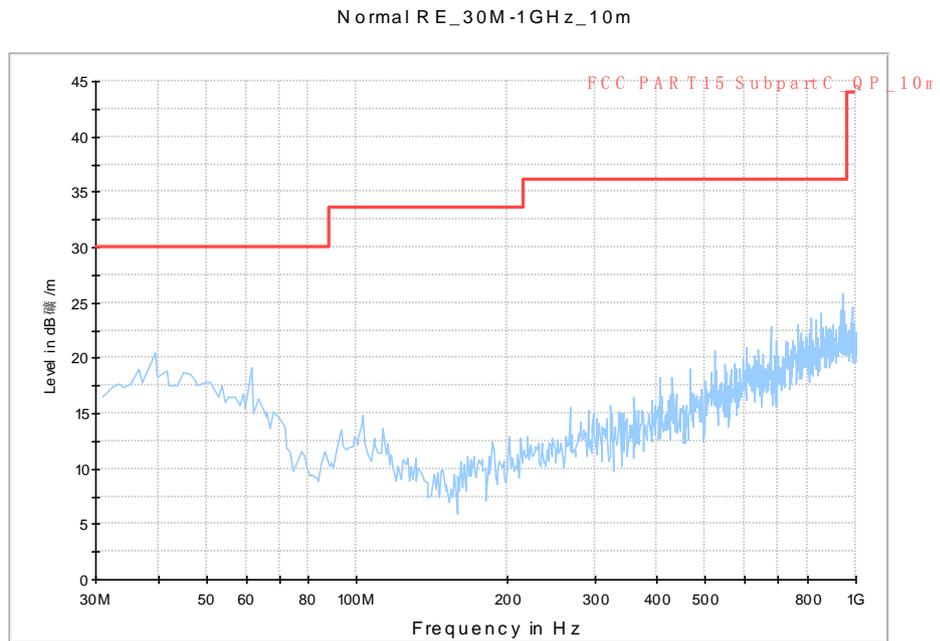


Fig. 110 Radiated Spurious Emission (802.11n-HT40, ch38, 30 MHz-1 GHz)

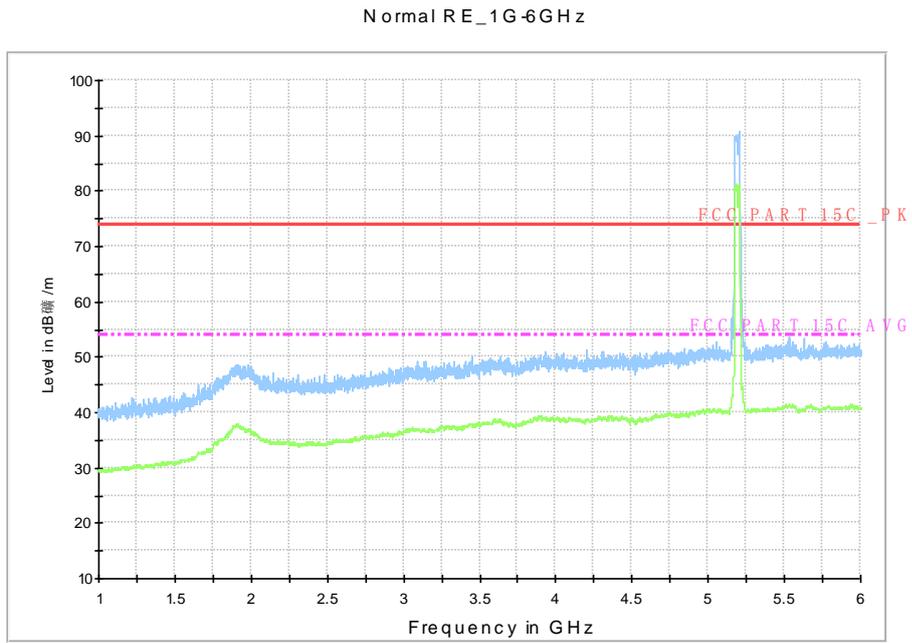


Fig. 111 Radiated Spurious Emission (802.11n-HT40, ch38, 1 GHz-6 GHz)

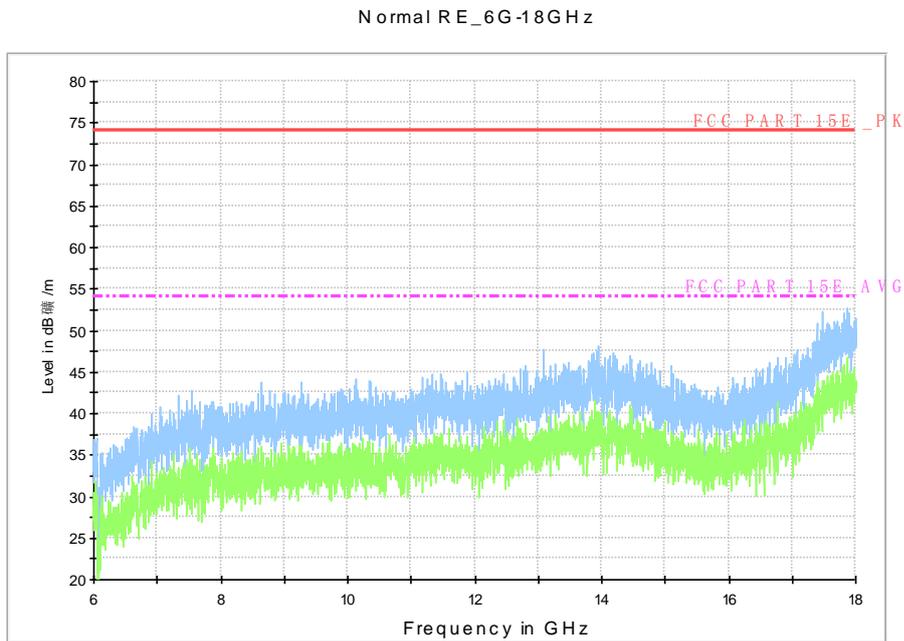


Fig. 112 Radiated Spurious Emission (802.11n-HT40, ch38, 6 GHz-18 GHz)

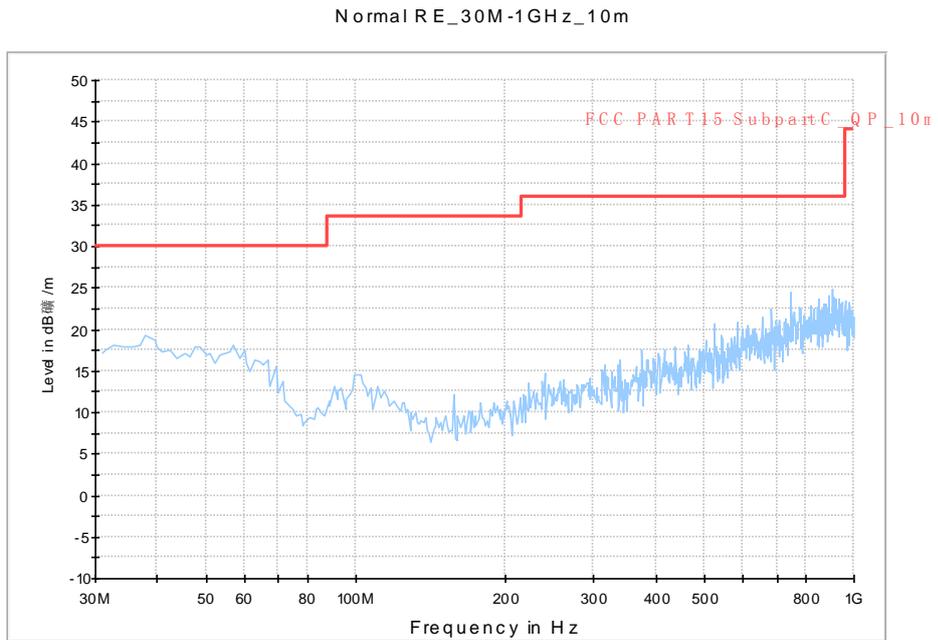


Fig. 113 Radiated Spurious Emission (802.11n-HT40, ch46, 30 MHz-1 GHz)

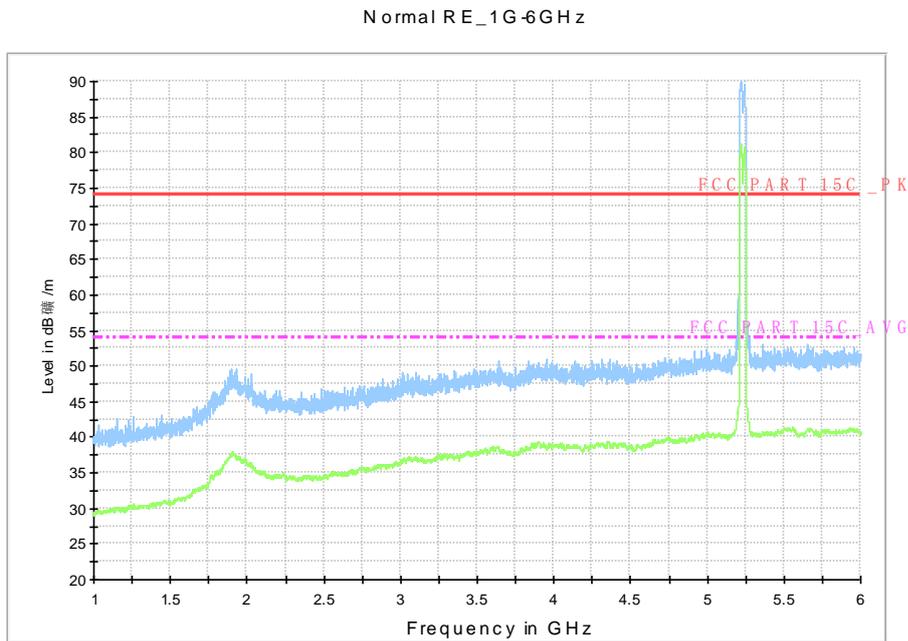


Fig. 114 Radiated Spurious Emission (802.11n-HT40, ch46, 1 GHz-6 GHz)

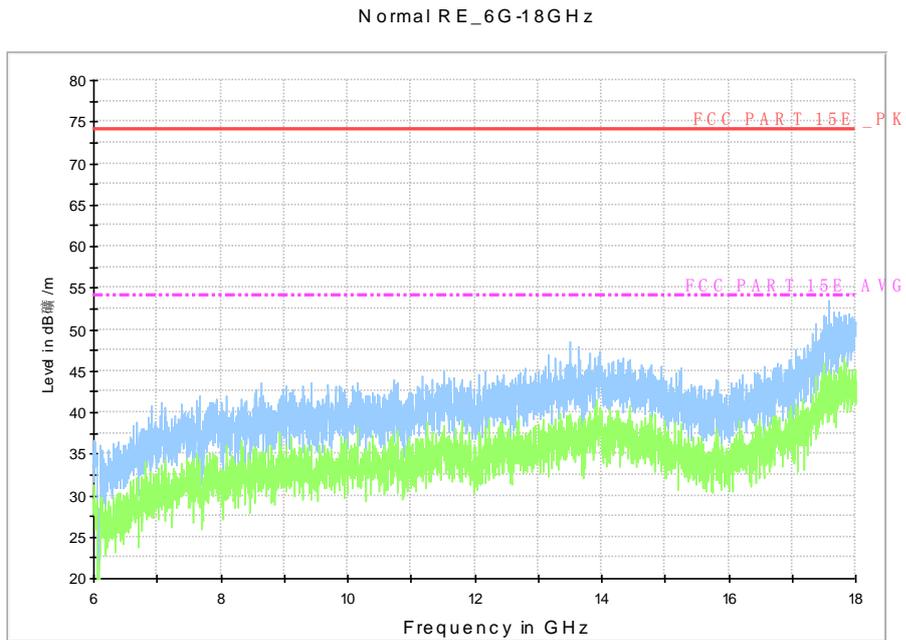


Fig. 115 Radiated Spurious Emission (802.11n-HT40, ch46, 6 GHz-18 GHz)

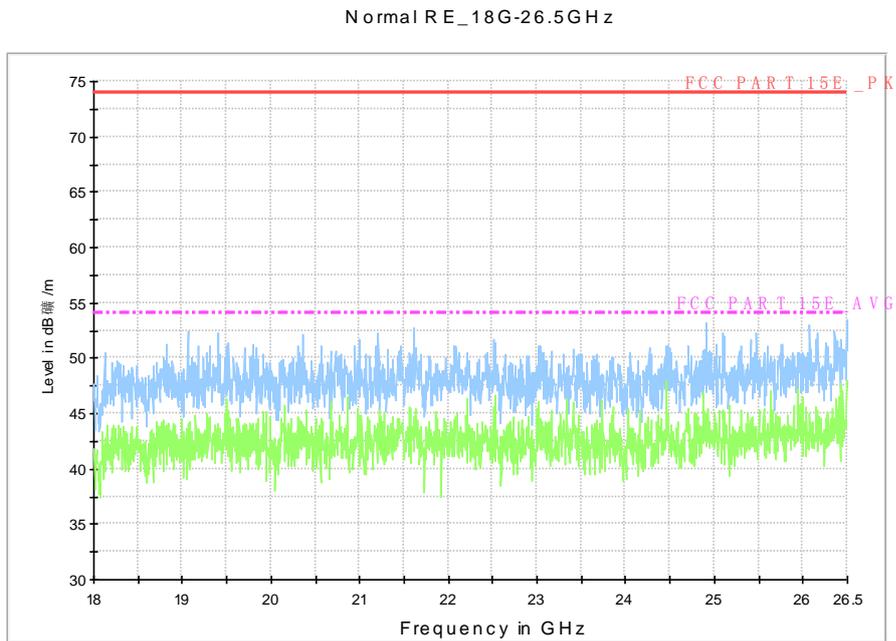


Fig. 116 Radiated Spurious Emission (802.11n-HT40, U-NII 1, 18 GHz-26.5 GHz)

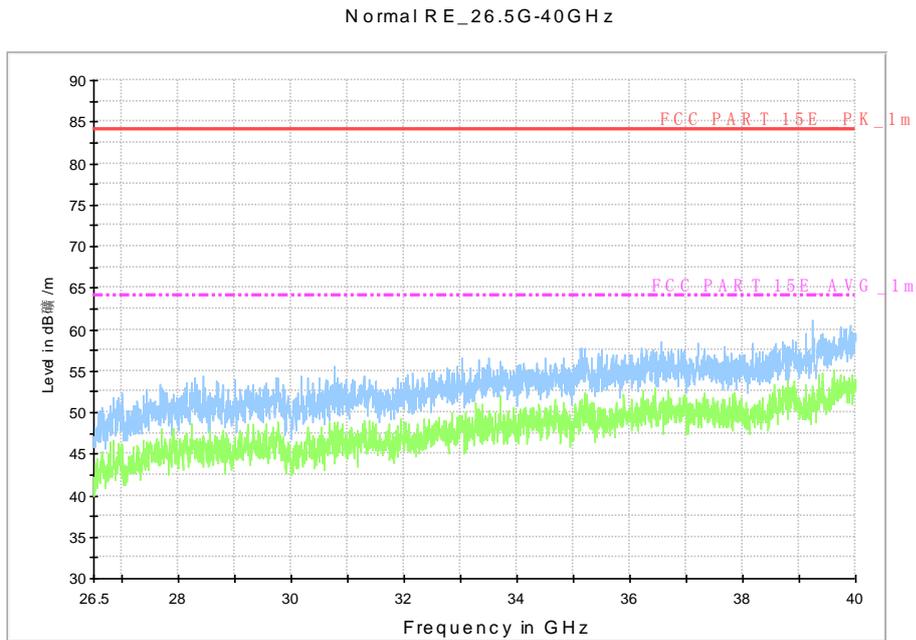


Fig. 117 Radiated Spurious Emission (802.11n-HT40, U-NII 1, 26.5 GHz-40 GHz)

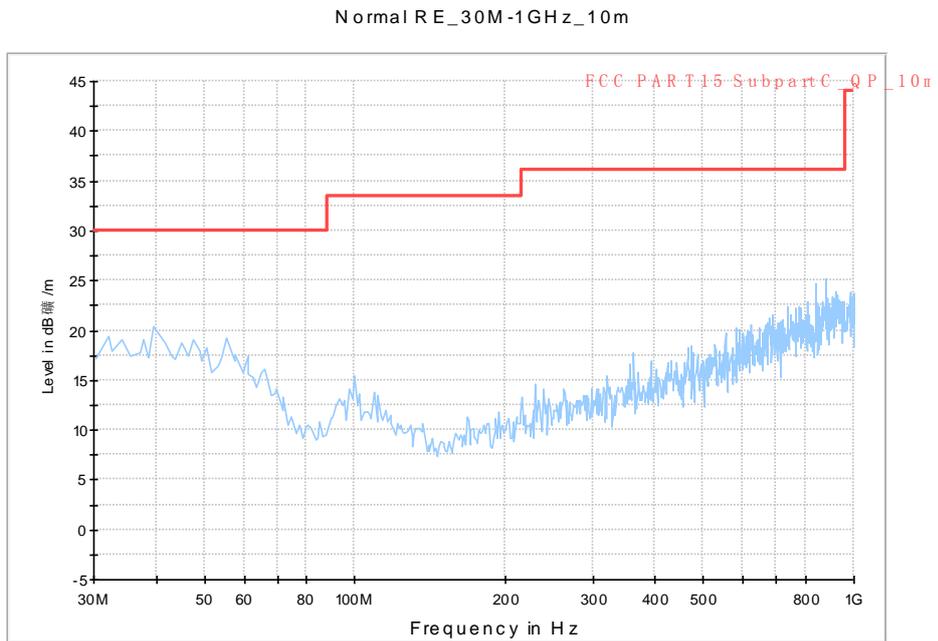


Fig. 118 Radiated Spurious Emission (802.11n-HT40, ch54, 30 MHz-1 GHz)

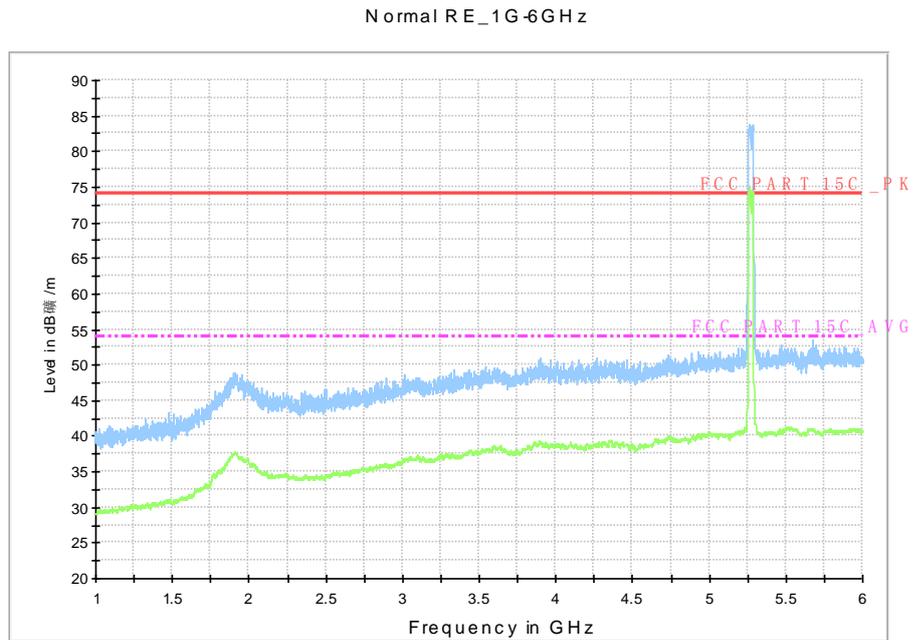


Fig. 119 Radiated Spurious Emission (802.11n-HT40, ch54, 1 GHz-6 GHz)

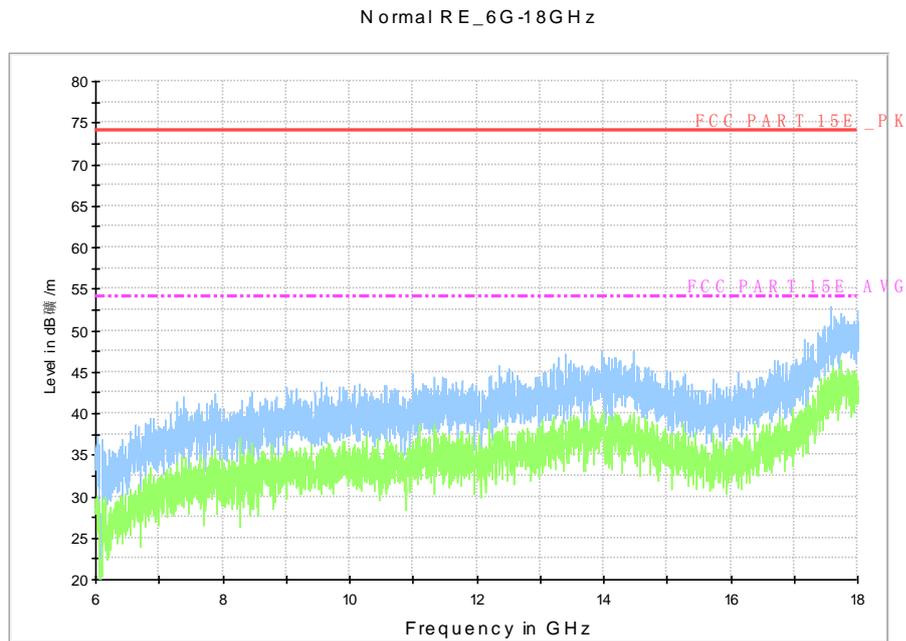


Fig. 120 Radiated Spurious Emission (802.11n-HT40, ch54, 6 GHz-18 GHz)

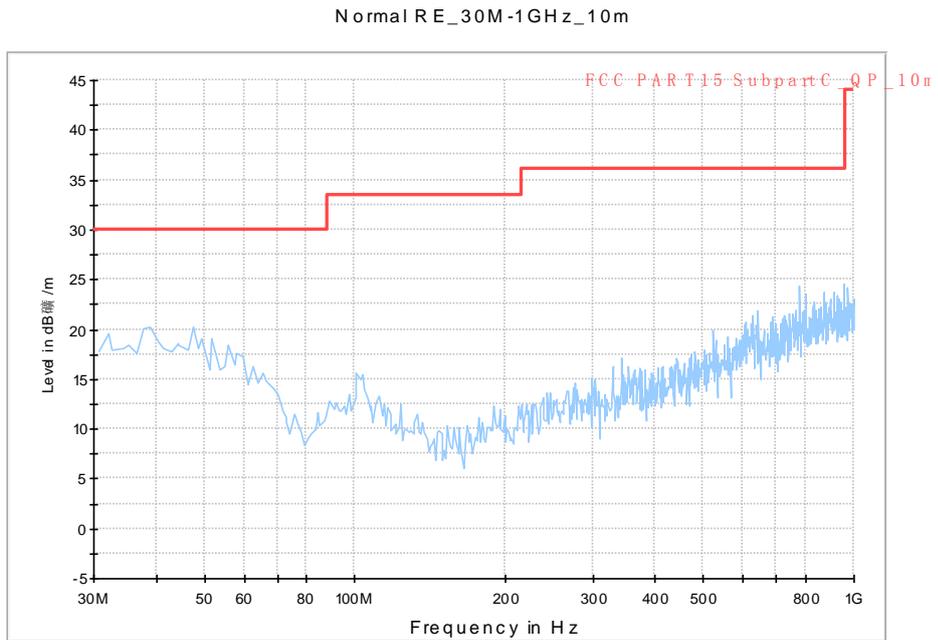


Fig. 121 Radiated Spurious Emission (802.11n-HT40, ch62, 30 MHz-1 GHz)

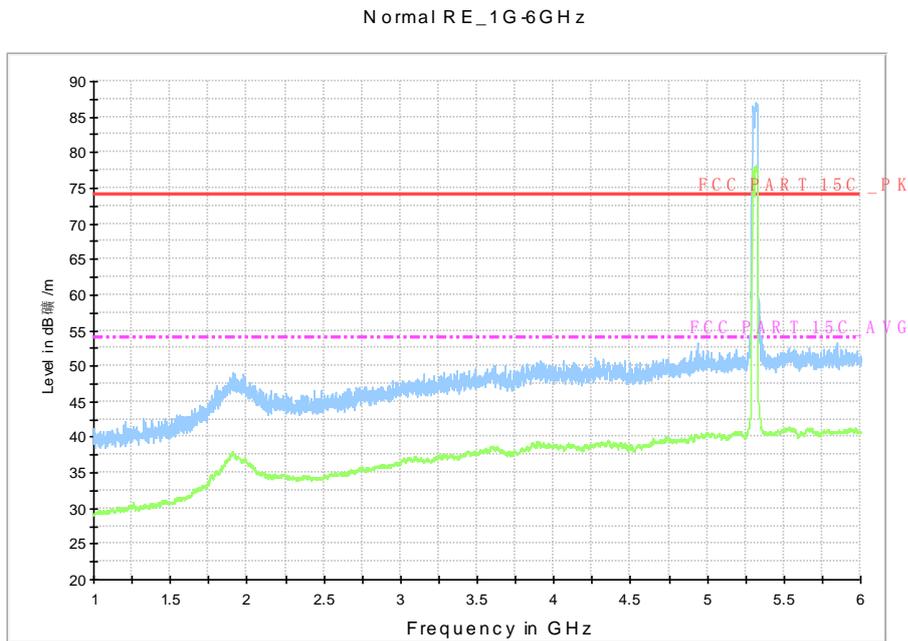


Fig. 122 Radiated Spurious Emission (802.11n-HT40, ch62, 1 GHz-6 GHz)

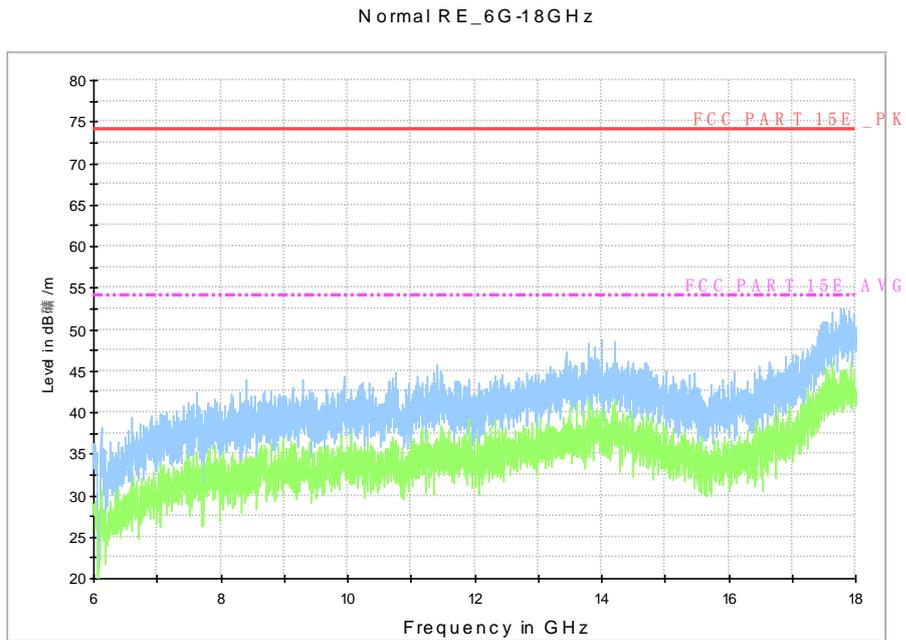


Fig. 123 Radiated Spurious Emission (802.11n-HT40, ch62, 6 GHz-18 GHz)

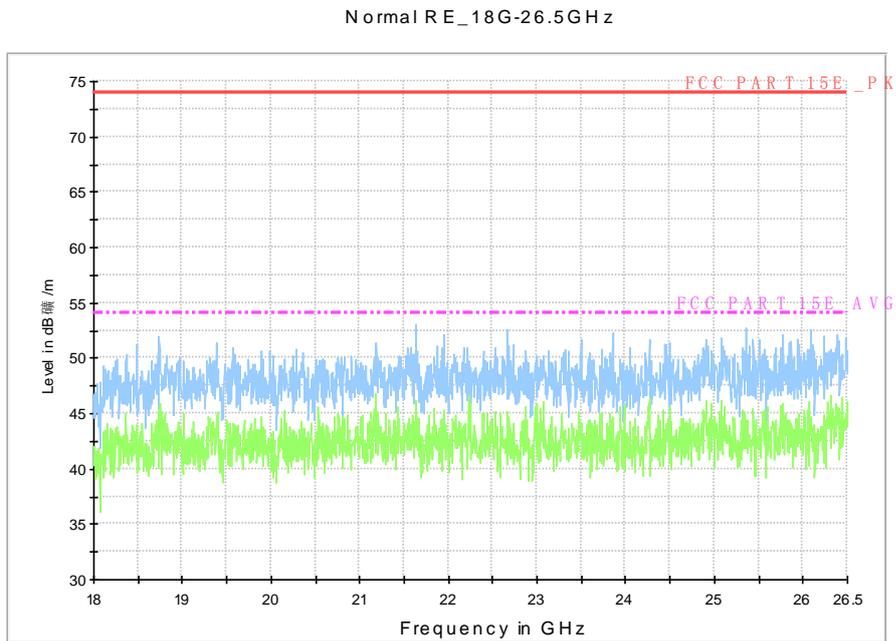


Fig. 124 Radiated Spurious Emission (802.11n-HT40, U-NII 2, 18 GHz-26.5 GHz)

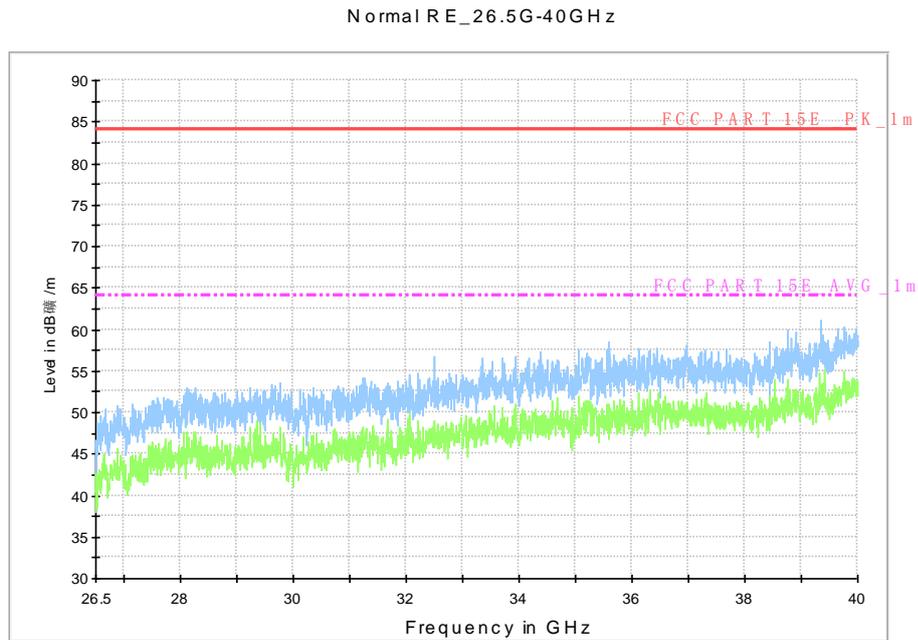


Fig. 125 Radiated Spurious Emission (802.11n-HT40, U-NII 2, 26.5 GHz-40 GHz)

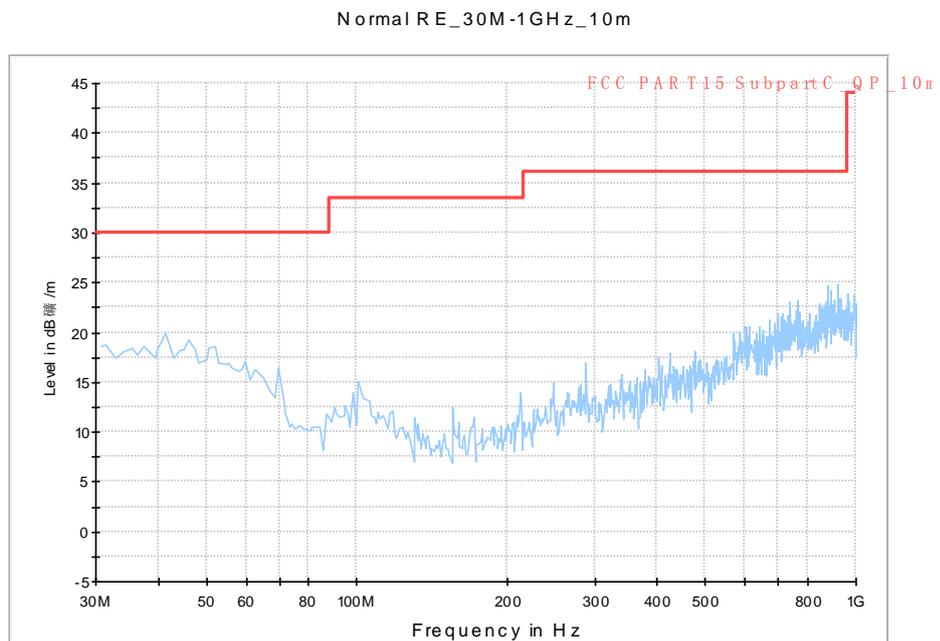


Fig. 126 Radiated Spurious Emission (802.11n-HT40, ch102, 30 MHz-1 GHz)

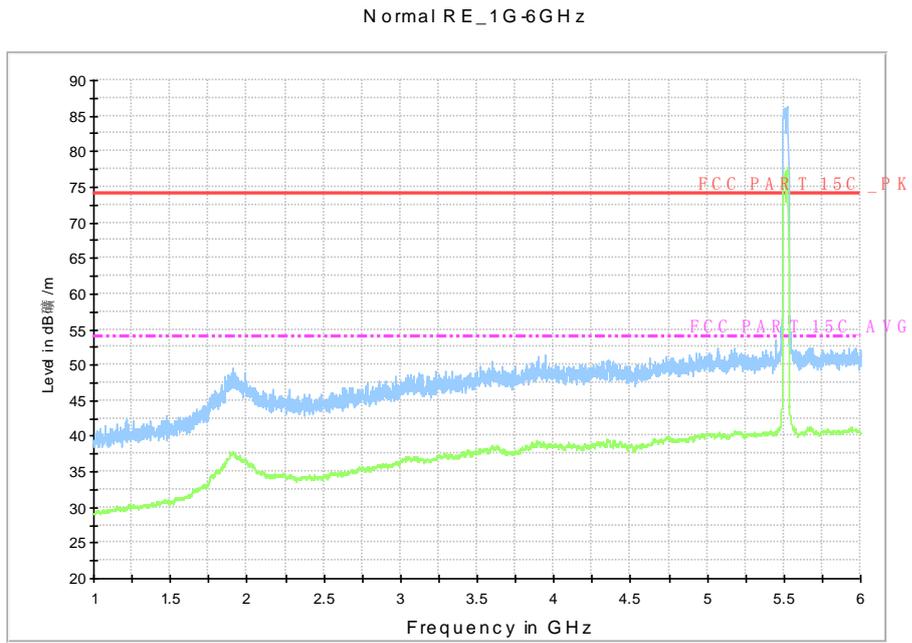


Fig. 127 Radiated Spurious Emission (802.11n-HT40, ch102, 1 GHz-6 GHz)

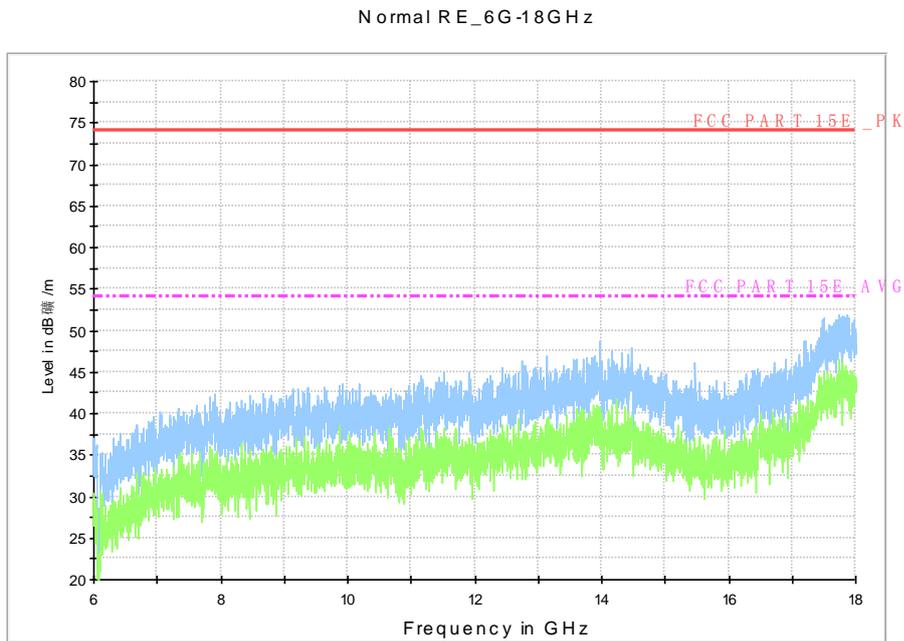


Fig. 128 Radiated Spurious Emission (802.11n-HT40, ch102, 6 GHz-18 GHz)

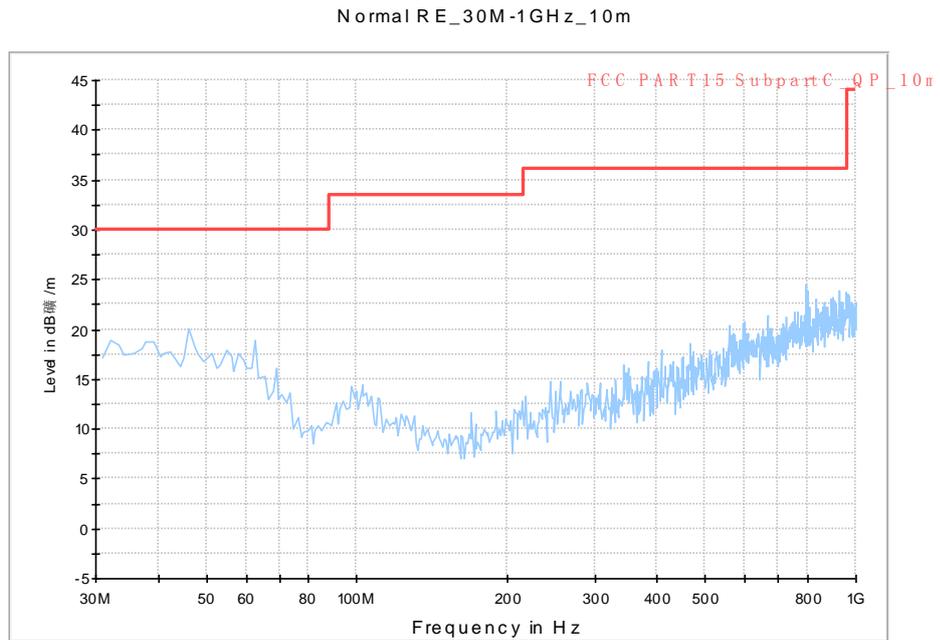


Fig. 129 Radiated Spurious Emission (802.11n-HT40, ch110, 30 MHz-1 GHz)

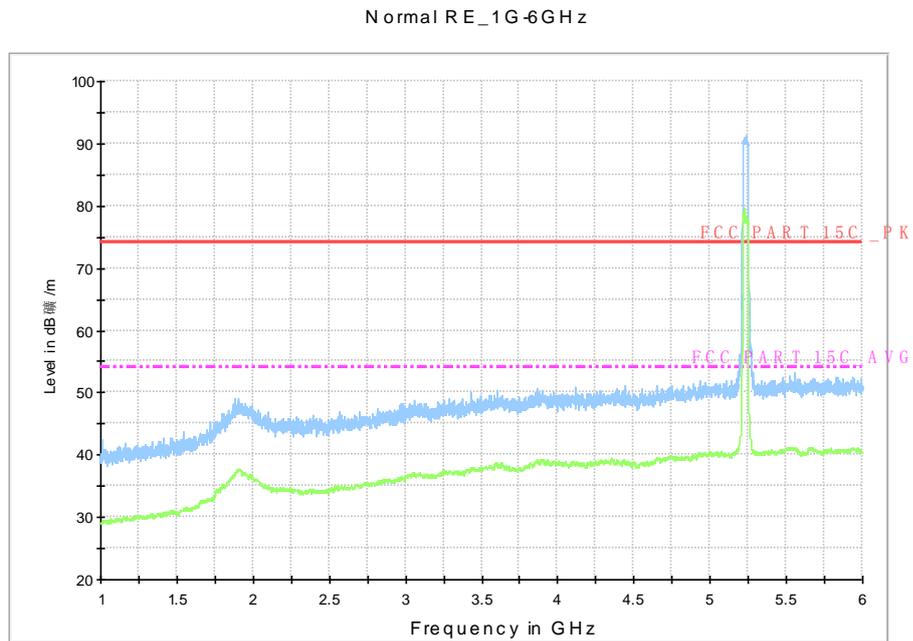


Fig. 130 Radiated Spurious Emission (802.11n-HT40, ch110, 1 GHz-6 GHz)

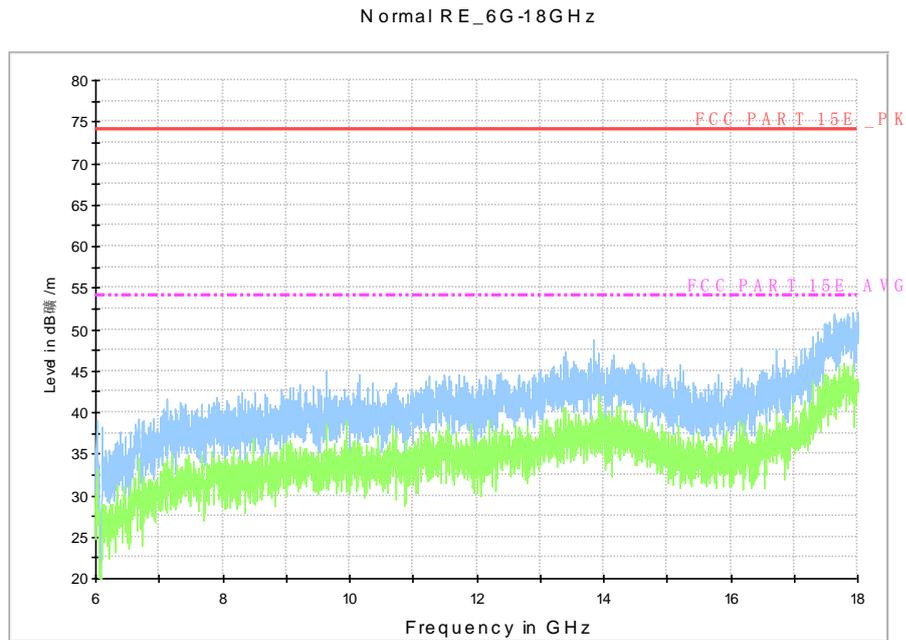


Fig. 131 Radiated Spurious Emission (802.11n-HT40, ch110, 6 GHz-18 GHz)

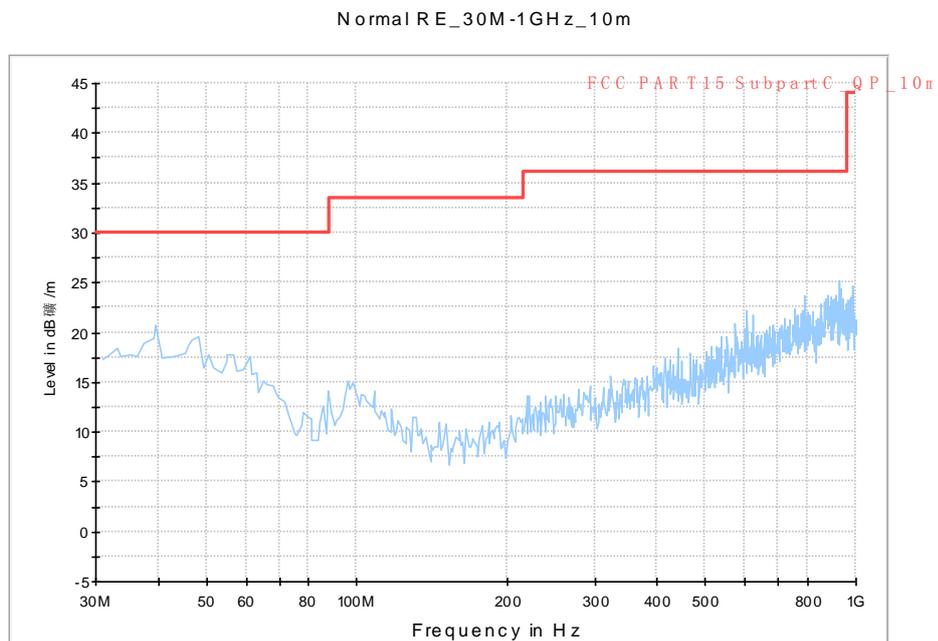


Fig. 132 Radiated Spurious Emission (802.11n-HT40, ch134, 30 MHz-1 GHz)

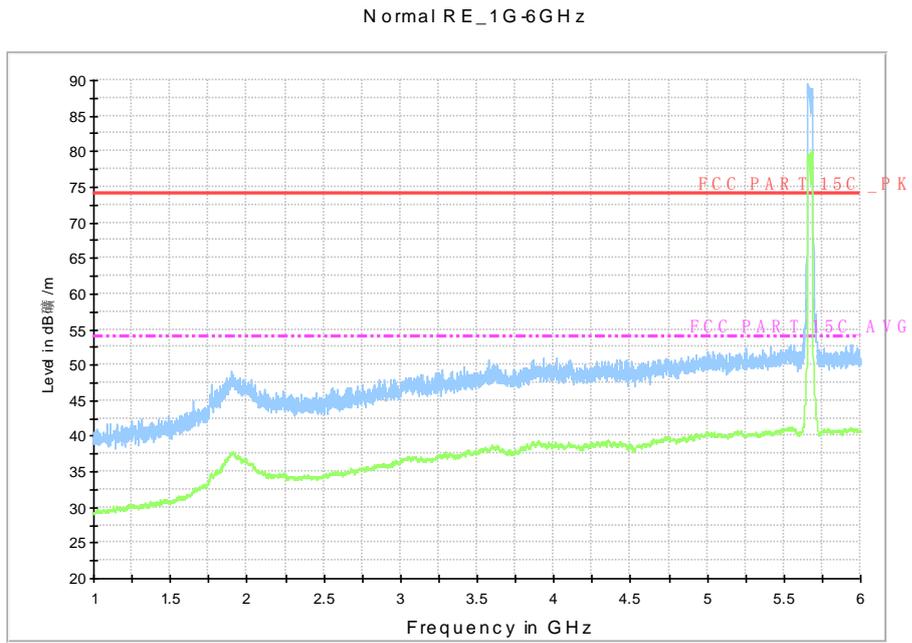


Fig. 133 Radiated Spurious Emission (802.11n-HT40, ch134, 1 GHz-6 GHz)

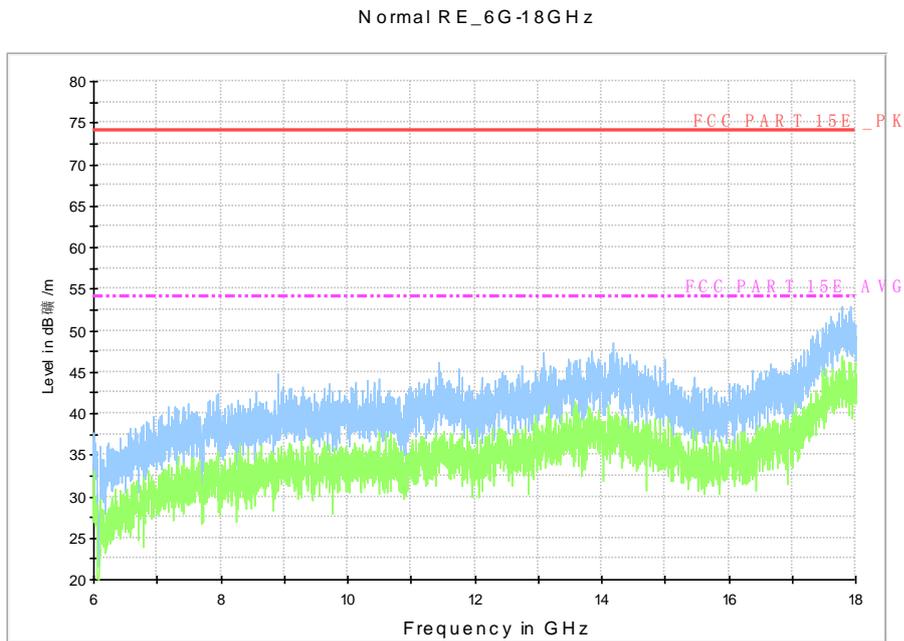


Fig. 134 Radiated Spurious Emission (802.11n-HT40, ch134, 6 GHz-18 GHz)

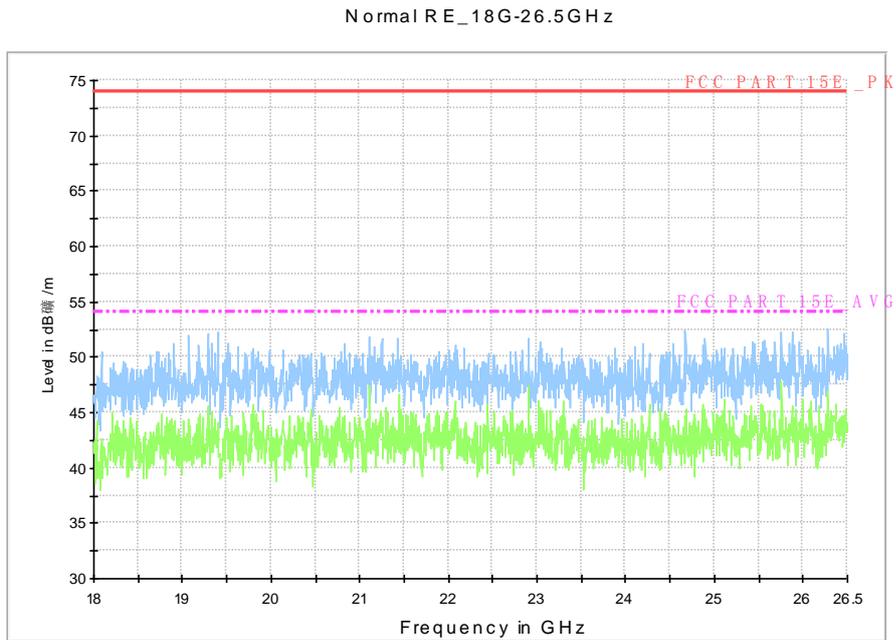


Fig. 135 Radiated Spurious Emission (802.11n-HT40, U-NII 3, 18 GHz-26.5 GHz)

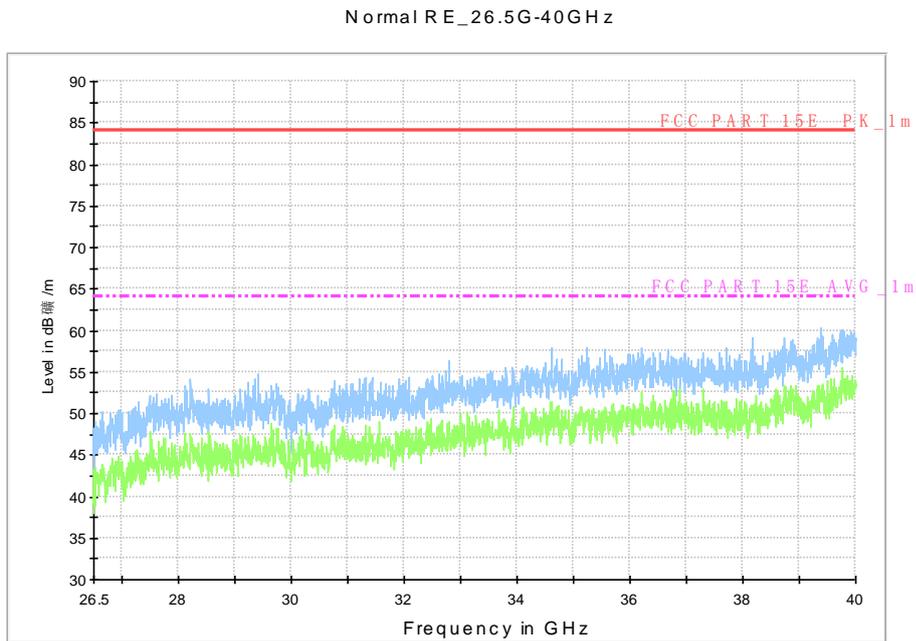


Fig. 136 Radiated Spurious Emission (802.11n-HT40, U-NII 3, 26.5 GHz-40 GHz)

A.7. Spurious Emissions Radiated < 30MHz

Measurement Limit(15.209, 9kHz-30MHz):

Frequency (MHz)	Field strength($\mu\text{V}/\text{m}$)	Measurement distance(m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

The measurement is made according to KDB 789033

Note: The measurement distance during the test is 3m. The limit used in plots is recalculated based on the extrapolation factor of 40 dB/decade.

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 2.6\text{dB}$, $k=2$.

Measurement Results:

Mode	Frequency Range	Test Results	Conclusion
802.11a	9 kHz ~30 MHz	Fig.137	P

Conclusion: PASS

Test graphs as below:

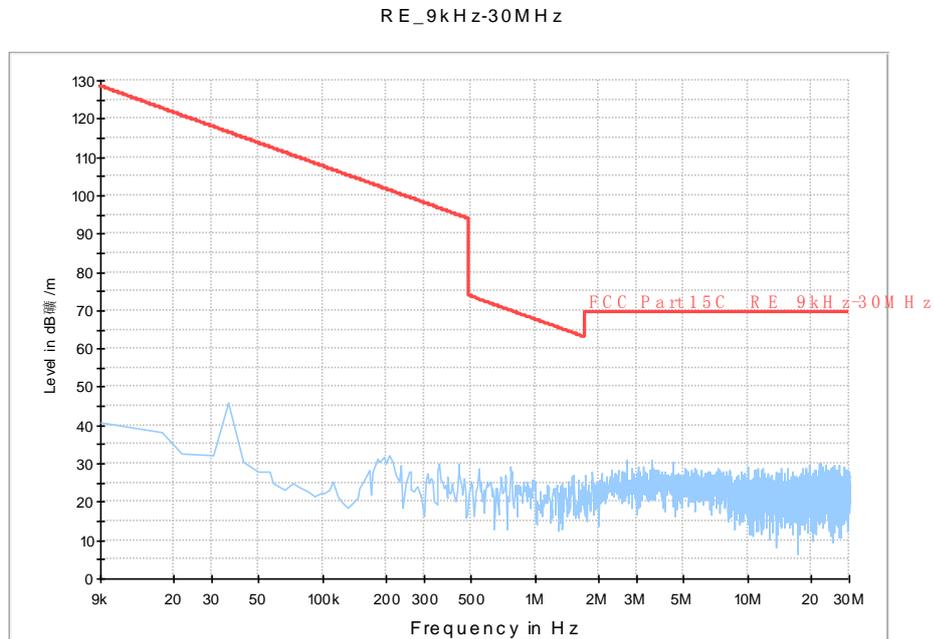


Fig. 137 Radiated Spurious Emission (802.11a, ch40, 9 kHz ~30 MHz)

A.8. Conducted Emission (150kHz- 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 μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig. 138	Fig. 139	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 μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.138	Fig.139	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.

Conclusion: PASS

Test graphs as below:

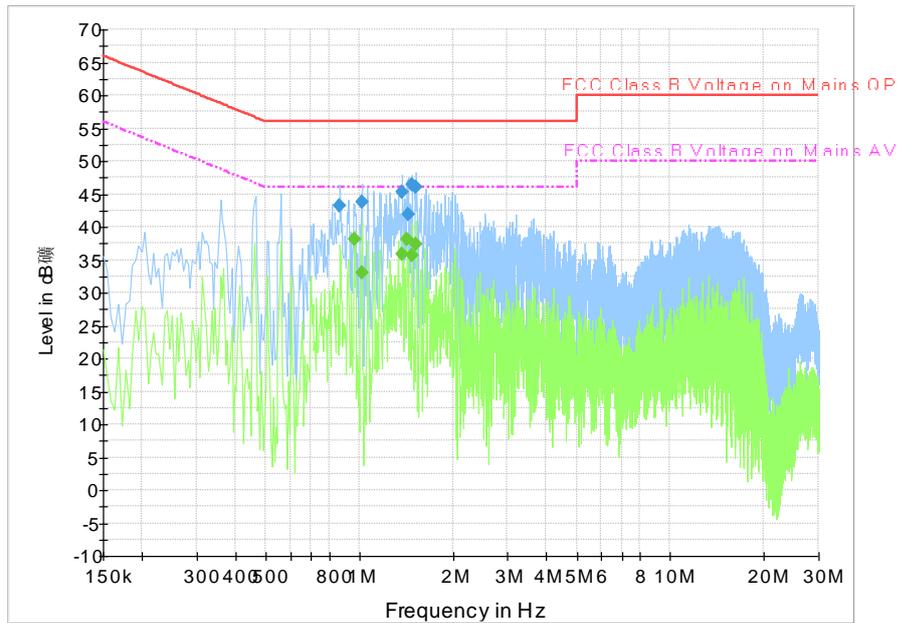


Fig. 138 Conducted Emission(802.11a, Ch40, TX)

Measurement Result:

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.865500	43.2	GND	L1	9.8	12.8	56.0
1.018500	43.8	GND	L1	9.7	12.2	56.0
1.374000	45.2	GND	L1	9.7	10.8	56.0
1.432500	41.9	GND	L1	9.7	14.1	56.0
1.477500	46.4	GND	L1	9.7	9.6	56.0
1.522500	46.1	GND	L1	9.7	9.9	56.0

Measurement Result:

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.964500	38.1	GND	L1	9.7	7.9	46.0
1.018500	33.0	GND	L1	9.7	13.0	46.0
1.374000	35.9	GND	L1	9.7	10.1	46.0
1.423500	38.1	GND	L1	9.7	7.9	46.0
1.477500	35.6	GND	L1	9.7	10.4	46.0
1.522500	37.4	GND	L1	9.7	8.6	46.0

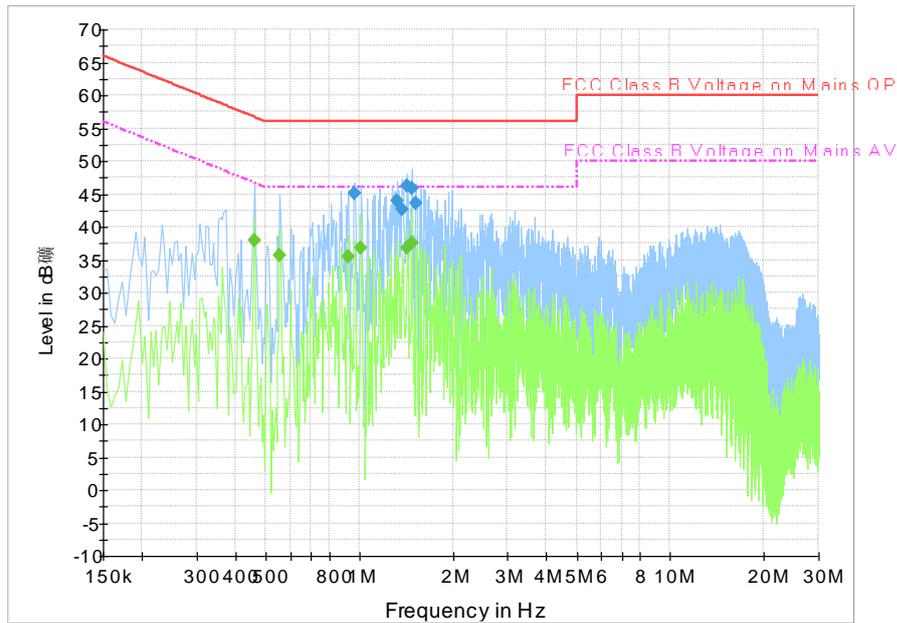


Fig. 139 Conducted Emission(802.11a, IDLE)

Measurement Result:

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.969000	45.2	GND	L1	9.7	10.8	56.0
1.324500	43.9	GND	L1	9.7	12.1	56.0
1.369500	42.6	GND	L1	9.7	13.4	56.0
1.428000	46.2	GND	L1	9.7	9.8	56.0
1.473000	45.8	GND	L1	9.7	10.2	56.0
1.518000	43.6	GND	L1	9.7	12.4	56.0

Measurement Result:

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.460500	38.0	GND	L1	9.8	8.7	46.7
0.555000	35.6	GND	L1	9.8	10.4	46.0
0.919500	35.5	GND	L1	9.7	10.5	46.0
1.014000	36.8	GND	L1	9.7	9.2	46.0
1.428000	36.8	GND	L1	9.7	9.2	46.0
1.473000	37.6	GND	L1	9.7	8.4	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 PPSS 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.140	8.38	Fig.141	7.97	Fig.142	8.23
Average(dBm)	Fig.143	-0.71	Fig.144	-0.66	Fig.145	-0.46
Result (dB)	9.09		8.63		8.69	

Type	Test Result (dBm)					
	5260MHz (Ch52)		5280 MHz (Ch56)		5320 MHz (Ch64)	
Peak (dBm)	Fig.146	7.87	Fig.147	8.14	Fig.148	9.32
Average(dBm)	Fig.149	-0.16	Fig.150	-0.10	Fig.151	0.38
Result (dB)	8.03		8.24		8.94	

Type	Test Result (dBm)					
	5500MHz (Ch100)		5580MHz (Ch116)		5700MHz (Ch140)	
Peak (dBm)	Fig.152	8.17	Fig.153	9.27	Fig.154	8.35
Average(dBm)	Fig.155	-0.37	Fig.156	-0.14	Fig.157	-0.12
Result (dB)	8.54		9.41		8.47	

11n-HT20 mode

Type	Peak Excursion					
	5180MHz (Ch36)		5200MHz (Ch40)		5240MHz (Ch48)	
Peak (dBm)	Fig.158	7.61	Fig.159	7.42	Fig.160	7.61
Average(dBm)	Fig.161	-0.96	Fig.162	-0.91	Fig.163	-0.75
Result (dB)	8.57		8.33		8.36	

Type	Test Result (dBm)					
	5260MHz (Ch52)		5280 MHz (Ch56)		5320 MHz (Ch64)	
Peak (dBm)	Fig.164	8.16	Fig.165	7.81	Fig.166	8.13
Average(dBm)	Fig.167	-0.38	Fig.168	-0.27	Fig.169	0.38
Result (dB)	8.54		8.08		7.75	

Type	Test Result (dBm)					
	5500MHz (Ch100)		5580MHz (Ch116)		5700MHz (Ch140)	
Peak (dBm)	Fig.170	8.33	Fig.171	8.51	Fig.172	8.03
Average(dBm)	Fig.173	-0.70	Fig.174	0.03	Fig.175	-0.12
Result (dB)	9.03		8.48		8.15	

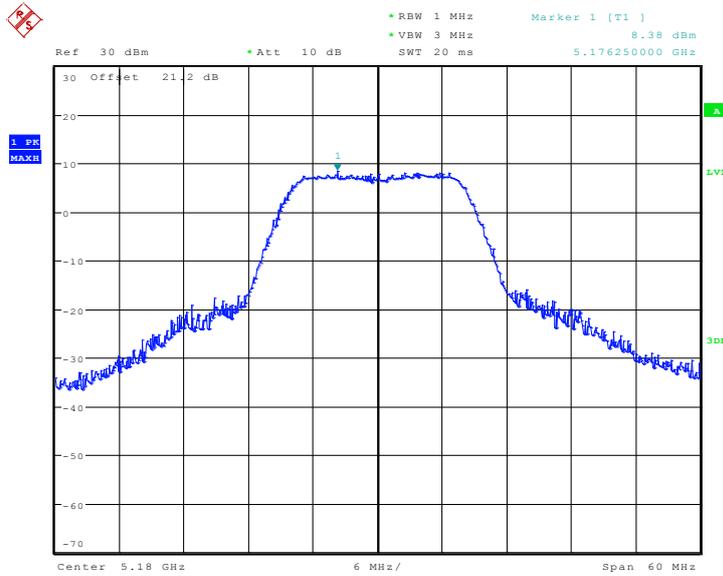
11n-HT40 mode

Type	Peak Excursion							
	5190MHz (Ch38)		5230MHz (Ch46)		5270MHz (Ch54)		5310 MHz (Ch62)	
Peak (dBm)	Fig.176	4.36	Fig.177	4.07	Fig.178	5.04	Fig.179	5.60
Average(dBm)	Fig.180	-4.00	Fig.181	-3.46	Fig.182	-3.45	Fig.183	-2.81
Result (dB)	8.36		7.53		8.49		8.41	

Type	Test Result (dBm)					
	5510MHz (Ch102)		5550MHz (Ch110)		5670MHz (Ch134)	
Peak (dBm)	Fig.184	5.87	Fig.185	4.85	Fig.186	6.22
Average(dBm)	Fig.187	-2.53	Fig.188	-3.22	Fig.189	-1.59
Result (dB)	8.40		8.07		7.81	

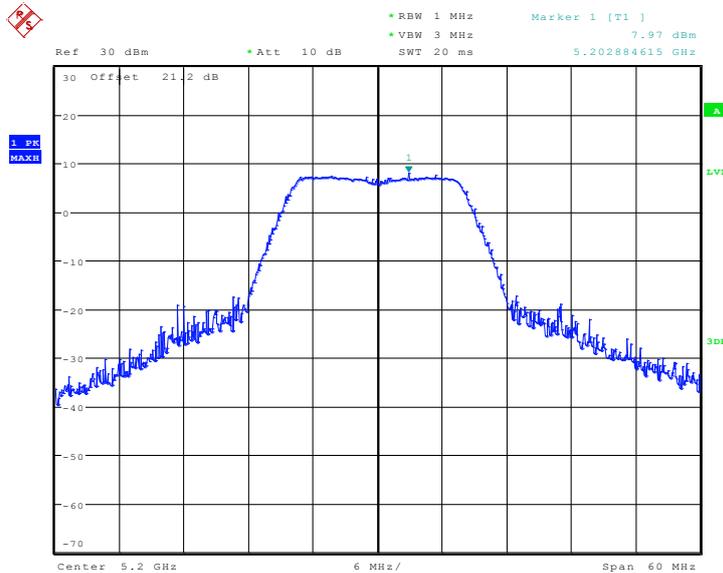
Conclusion: PASS

Test graphs as below:



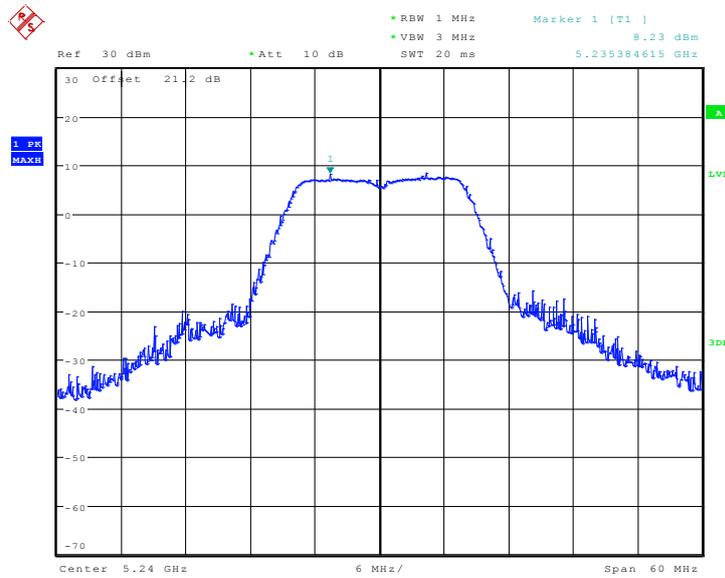
Date: 3.JAN.2014 14:17:19

Fig. 140 Peak Excursions (802.11a, ch36, peak)



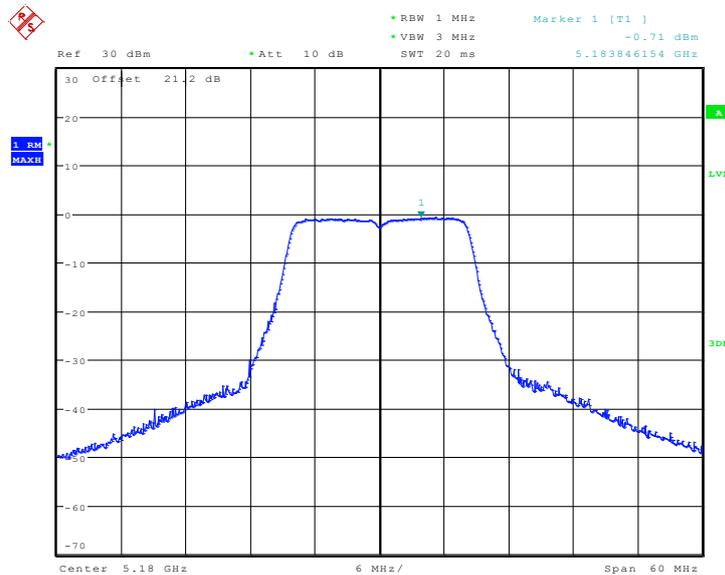
Date: 3.JAN.2014 14:18:16

Fig. 141 Peak Excursions (802.11a, ch40, peak)



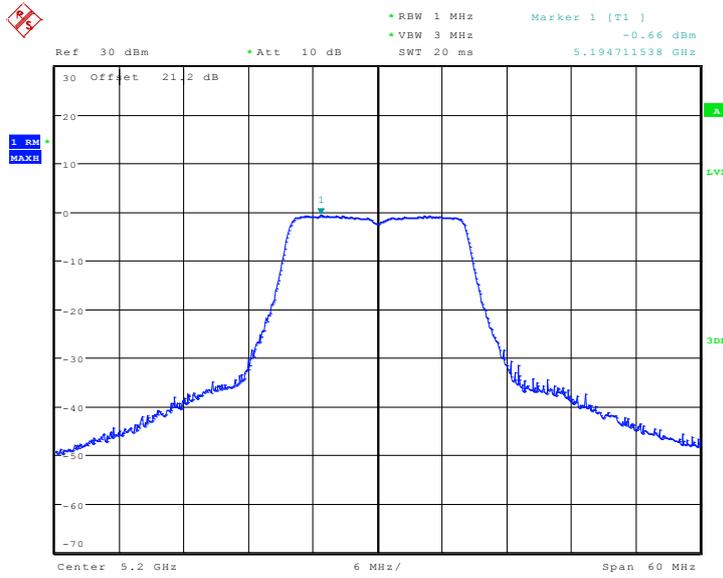
Date: 3.JAN.2014 14:18:37

Fig. 142 Peak Excursions (802.11a, ch48, peak)



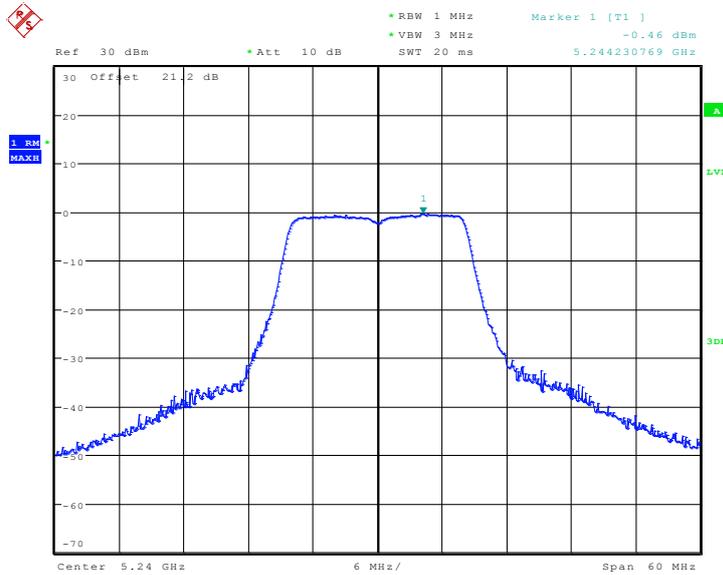
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Fig. 143 Peak Excursions (802.11a, ch36, average)



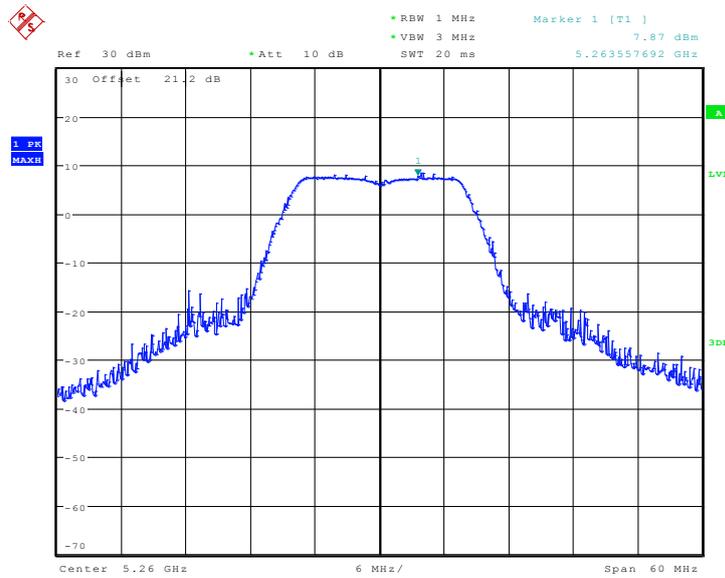
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Fig. 144 Peak Excursions (802.11a, ch40, average)



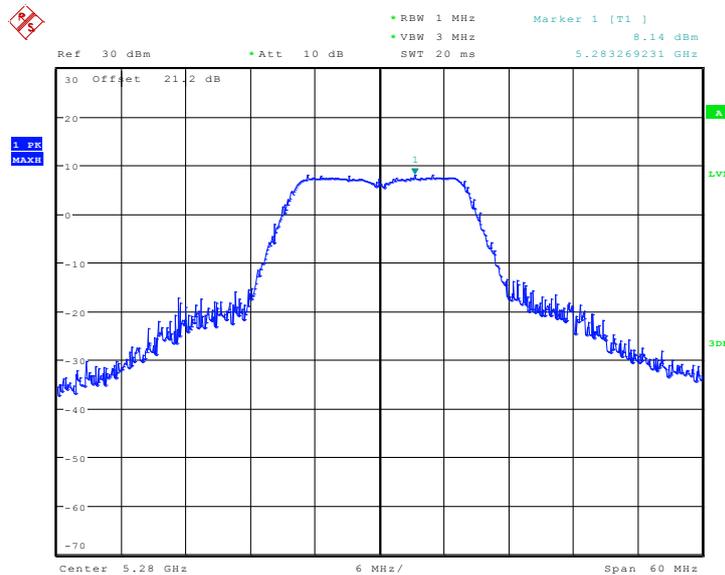
Date: 3.JAN.2014 14:18:50

Fig. 145 Peak Excursions (802.11a, ch48, average)



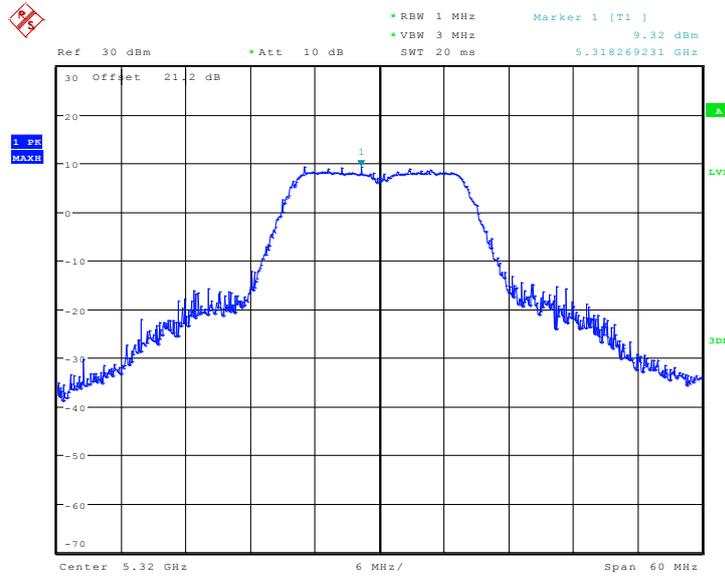
Date: 3.JAN.2014 14:19:24

Fig. 146 Peak Excursions (802.11a, ch52, peak)



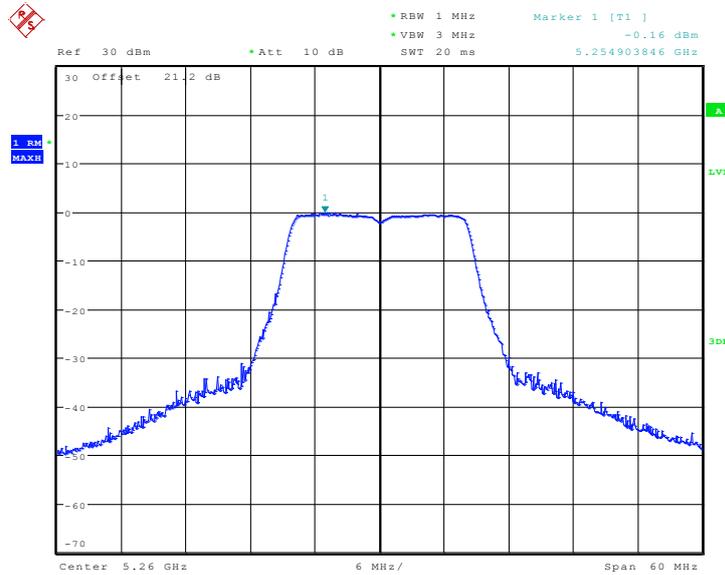
Date: 3.JAN.2014 14:19:48

Fig. 147 Peak Excursions (802.11a, ch56, peak)



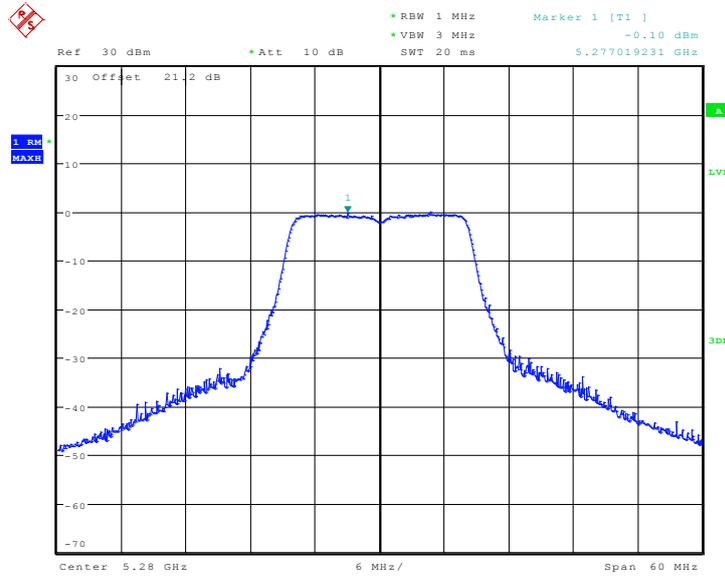
Date: 3.JAN.2014 14:20:37

Fig. 148 Peak Excursions (802.11a, ch64, peak)



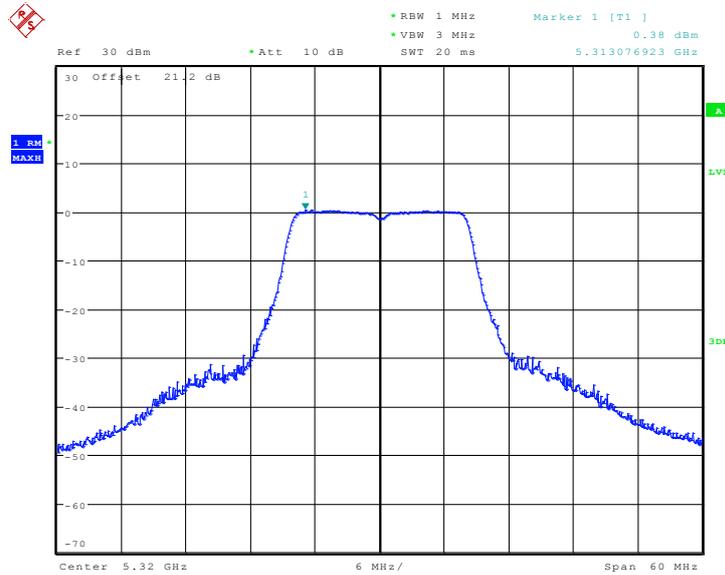
Date: 3.JAN.2014 14:19:09

Fig. 149 Peak Excursions (802.11a, ch52, average)



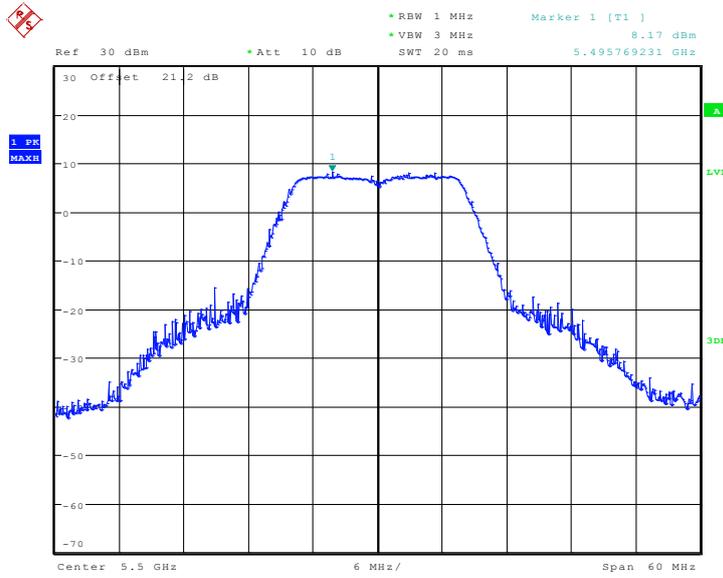
Date: 3.JAN.2014 14:20:01

Fig. 150 Peak Excursions (802.11a, ch56, average)



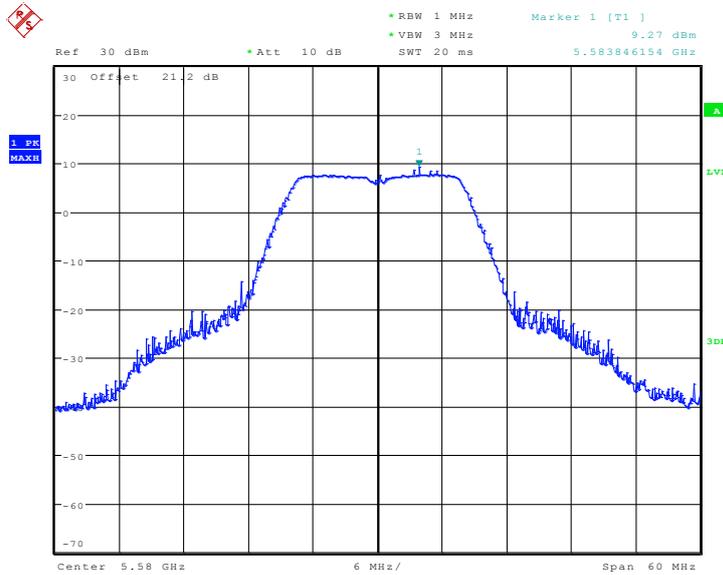
Date: 3.JAN.2014 14:20:27

Fig. 151 Peak Excursions (802.11a, ch64, average)



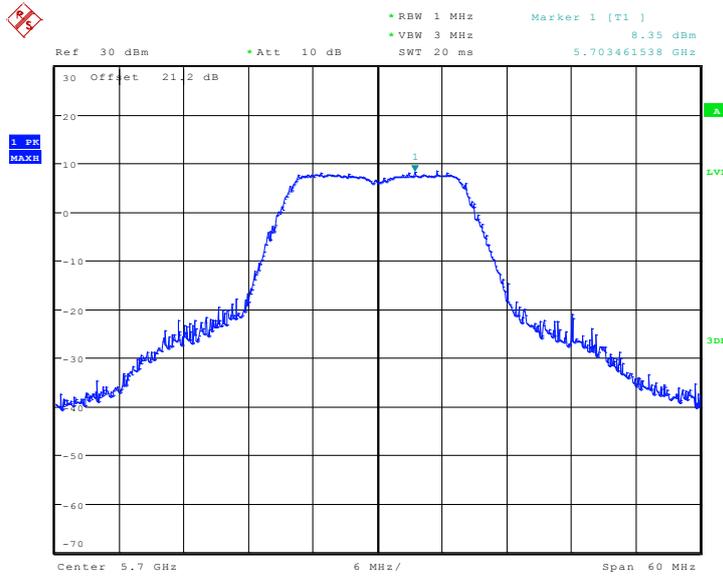
Date: 3.JAN.2014 14:20:54

Fig. 152 Peak Excursions (802.11a, ch100, peak)



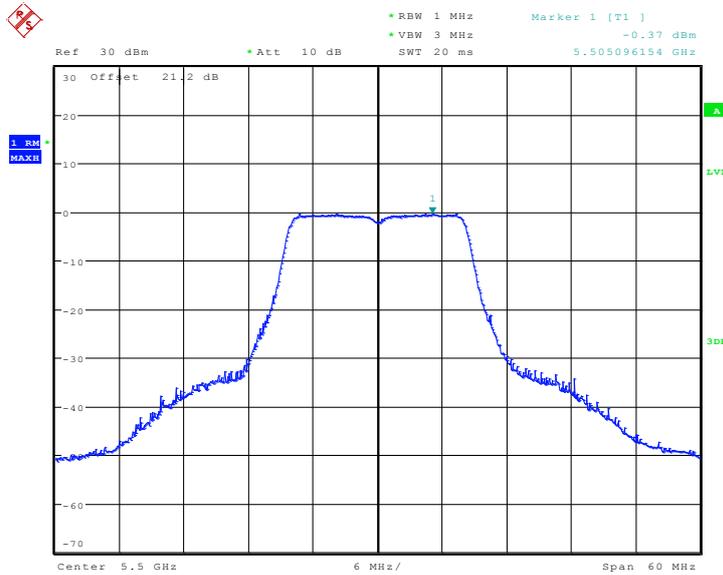
Date: 3.JAN.2014 14:21:35

Fig. 153 Peak Excursions (802.11a, ch116, peak)



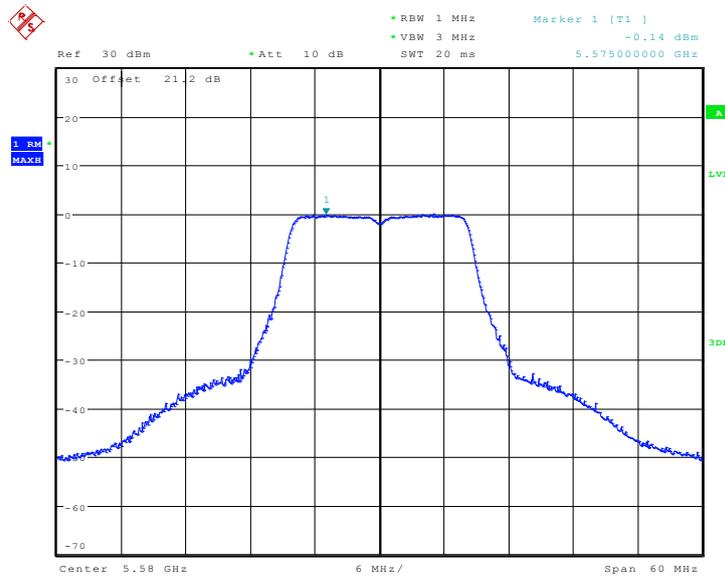
Date: 3.JAN.2014 14:21:54

Fig. 154 Peak Excursions (802.11a, ch140, peak)



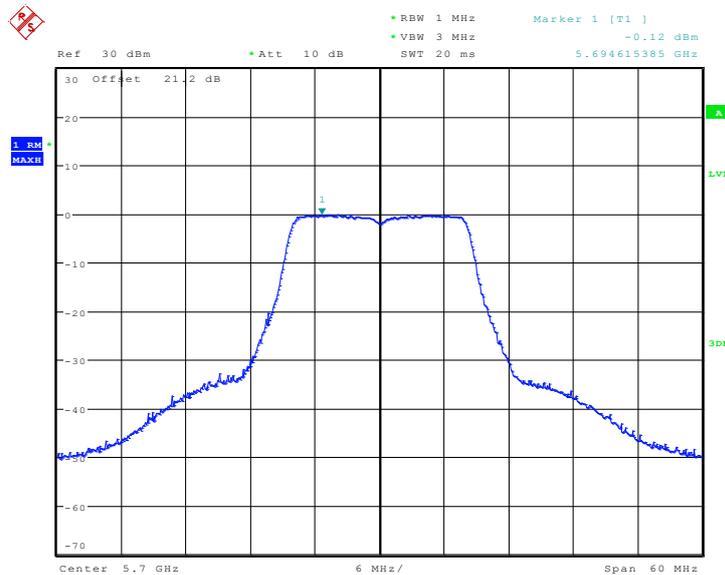
Date: 3.JAN.2014 14:21:06

Fig. 155 Peak Excursions (802.11a, ch100, average)



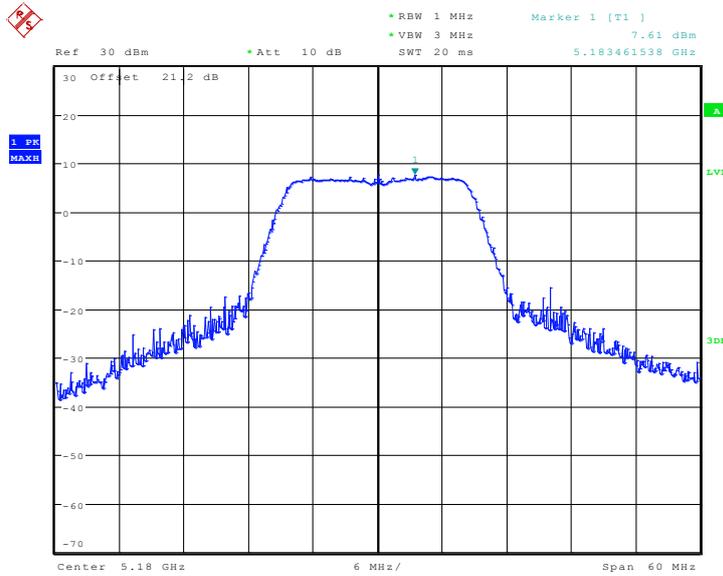
Date: 3.JAN.2014 14:21:25

Fig. 156 Peak Excursions (802.11a, ch116, average)



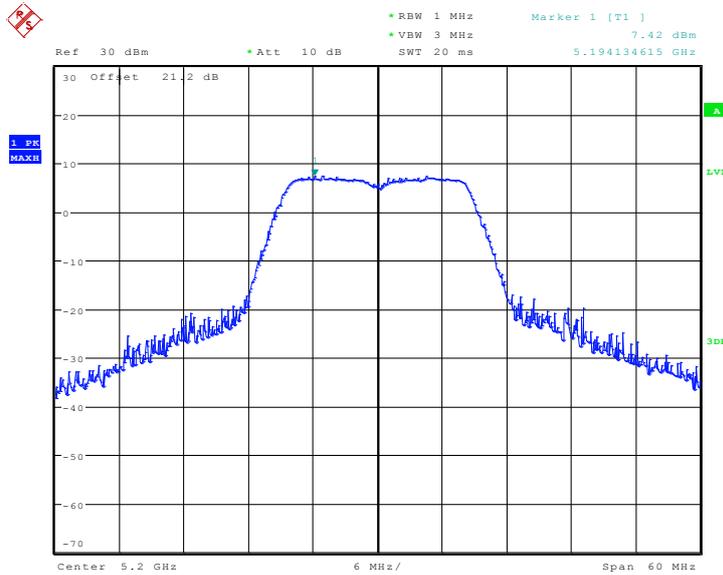
Date: 3.JAN.2014 14:22:05

Fig. 157 Peak Excursions (802.11a, ch140, average)



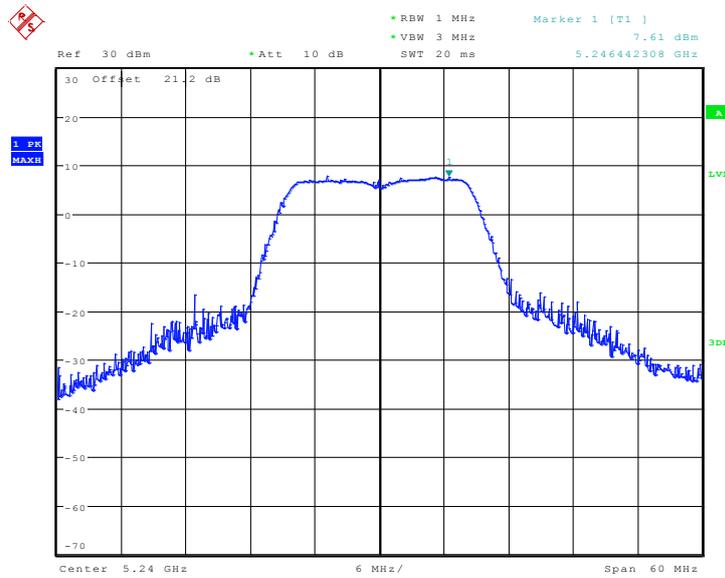
Date: 3.JAN.2014 14:22:47

Fig. 158 Peak Excursions (802.11n-HT20, ch36, peak)



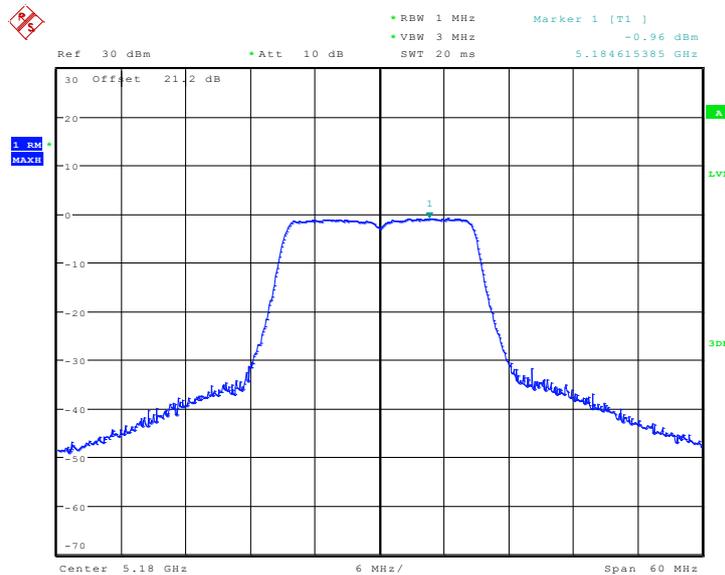
Date: 3.JAN.2014 14:23:16

Fig. 159 Peak Excursions (802.11n-HT20, ch40, peak)



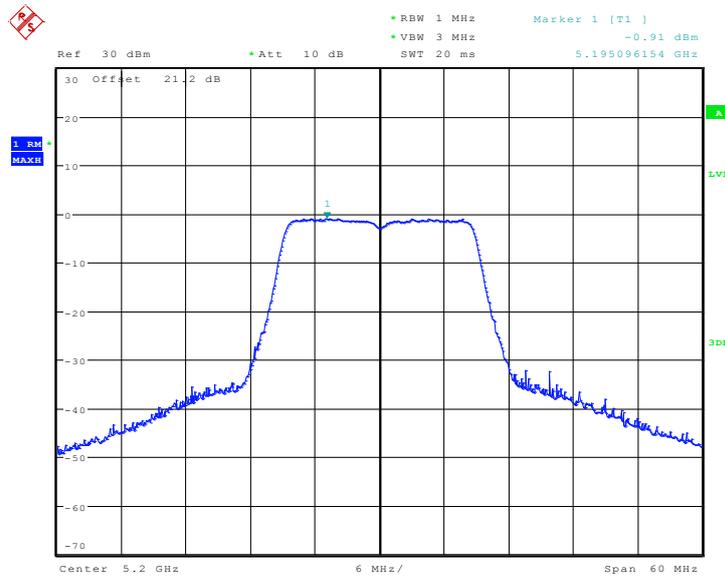
Date: 3.JAN.2014 14:24:00

Fig. 160 Peak Excursions (802.11n-HT20, ch48, peak)



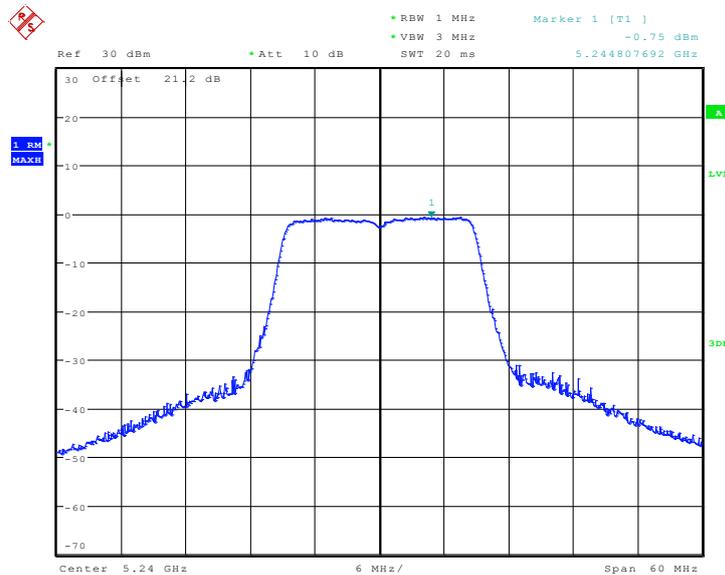
Date: 3.JAN.2014 14:22:34

Fig. 161 Peak Excursions (802.11n-HT20, ch36, average)



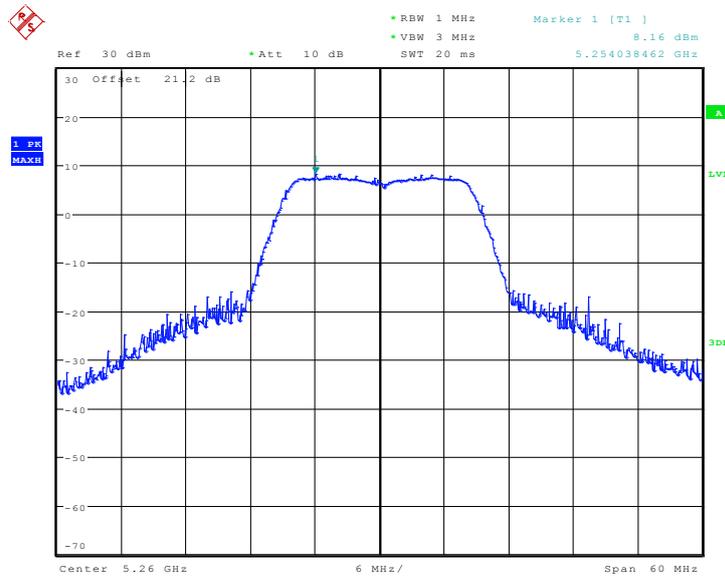
Date: 3.JAN.2014 14:23:26

Fig. 162 Peak Excursions (802.11n-HT20, ch40, average)



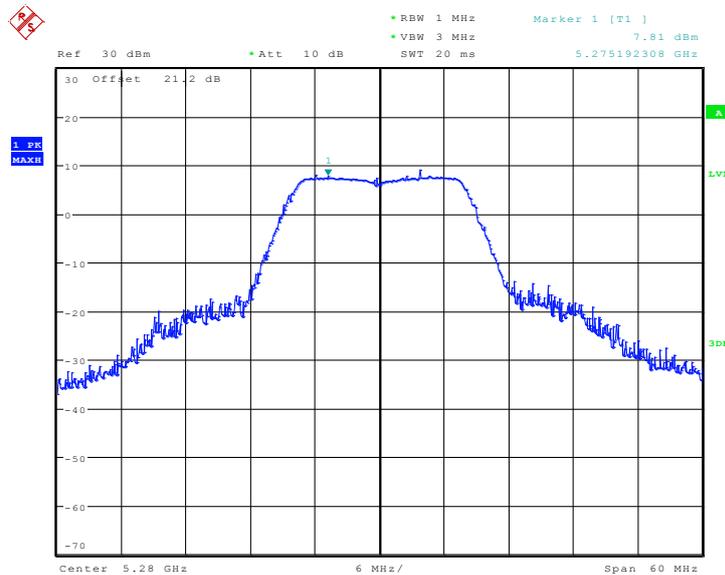
Date: 3.JAN.2014 14:23:47

Fig. 163 Peak Excursions (802.11n-HT20, ch48, average)



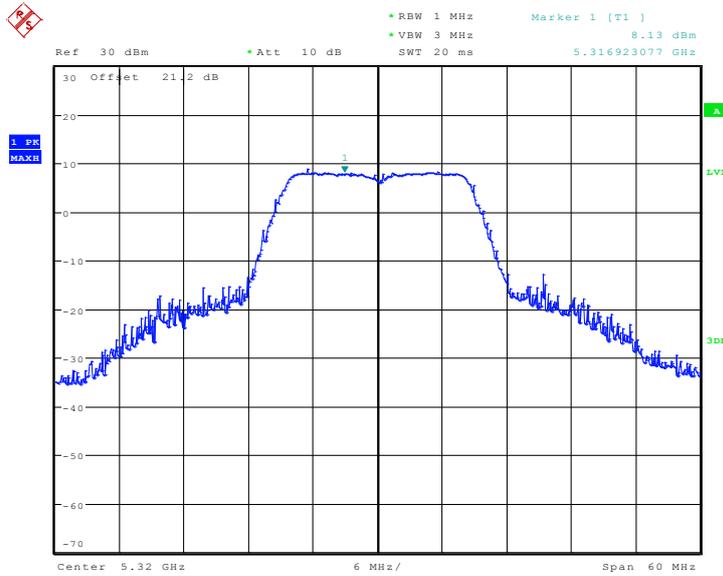
Date: 3.JAN.2014 14:25:37

Fig. 164 Peak Excursions (802.11n-HT20, ch52, peak)



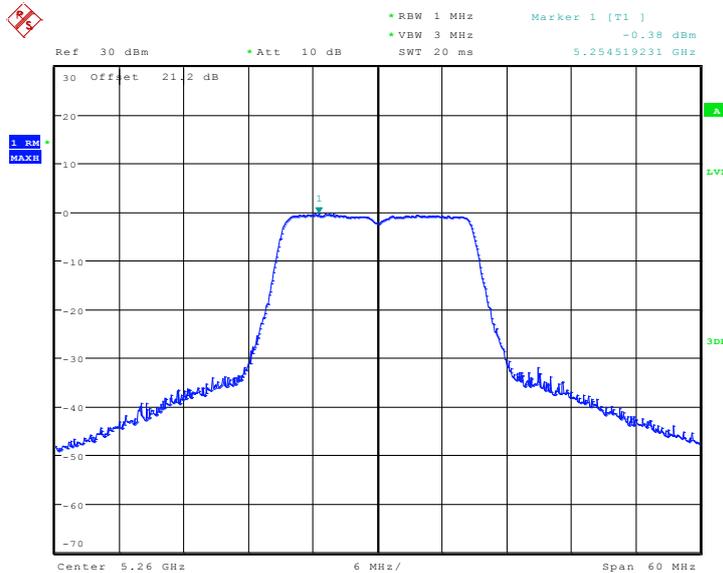
Date: 3.JAN.2014 14:30:17

Fig. 165 Peak Excursions (802.11n-HT20, ch56, peak)



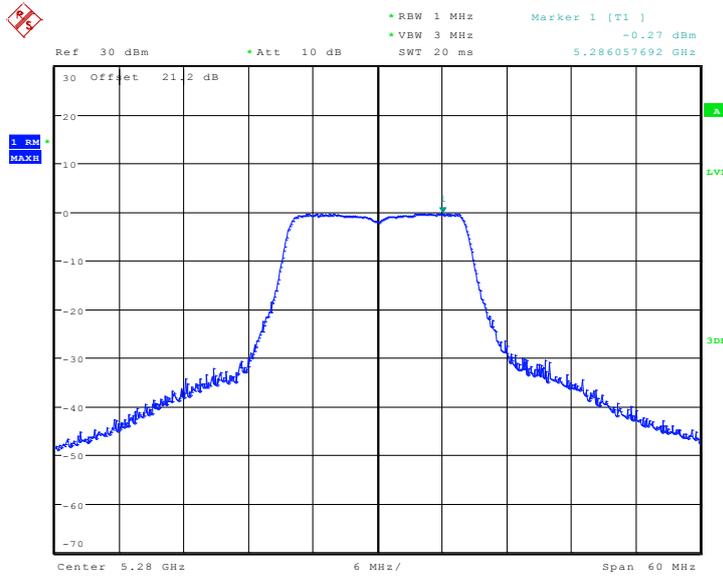
Date: 3.JAN.2014 14:26:17

Fig. 166 Peak Excursions (802.11n-HT20, ch64, peak)



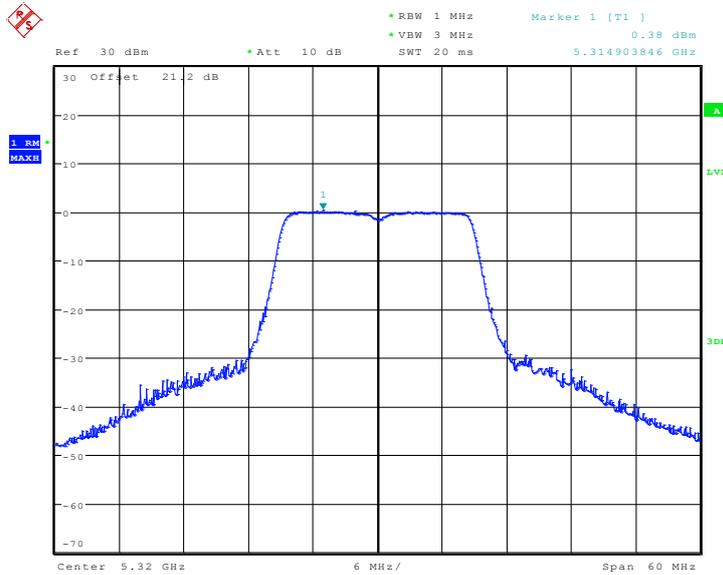
Date: 3.JAN.2014 14:25:47

Fig. 167 Peak Excursions (802.11n-HT20, ch52, average)



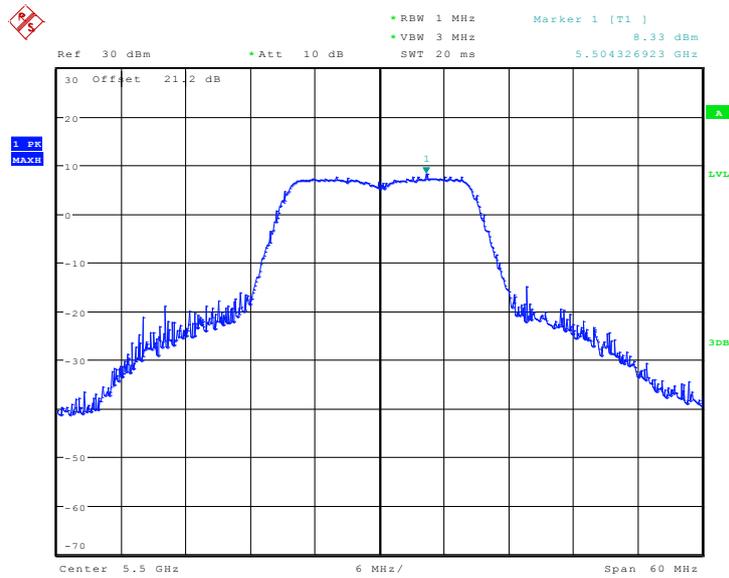
Date: 3.JAN.2014 14:29:56

Fig. 168 Peak Excursions (802.11n-HT20, ch56, average)



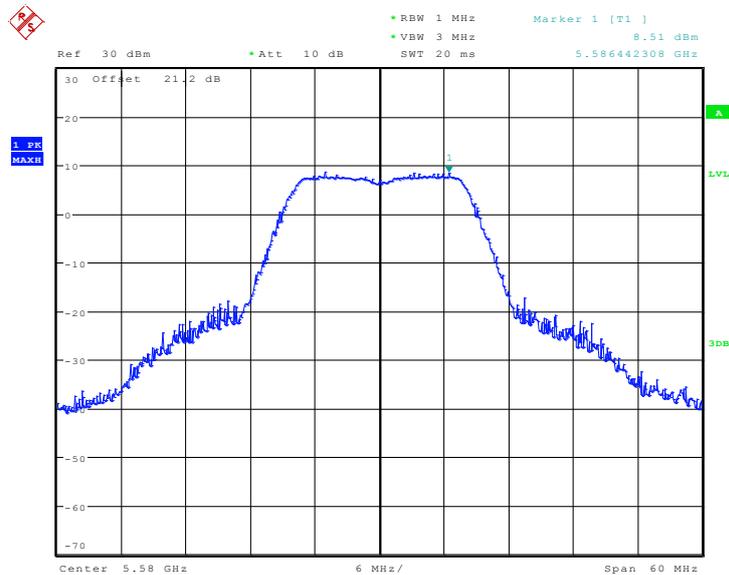
Date: 3.JAN.2014 14:26:05

Fig. 169 Peak Excursions (802.11n-HT20, ch64, average)



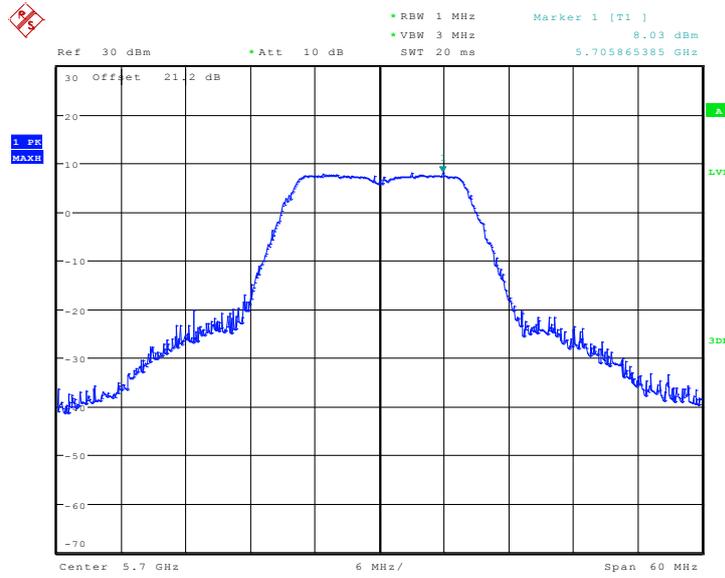
Date: 3.JAN.2014 14:26:34

Fig. 170 Peak Excursions (802.11n-HT20, ch100, peak)



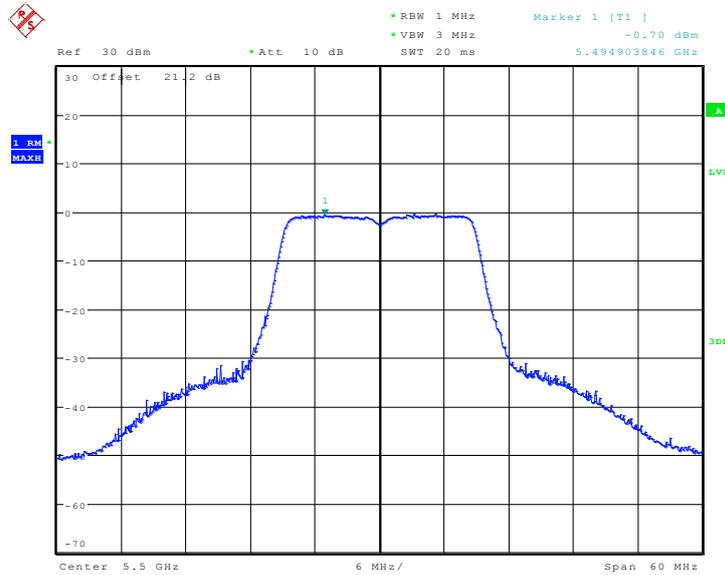
Date: 3.JAN.2014 14:27:48

Fig. 171 Peak Excursions (802.11n-HT20, ch116, peak)



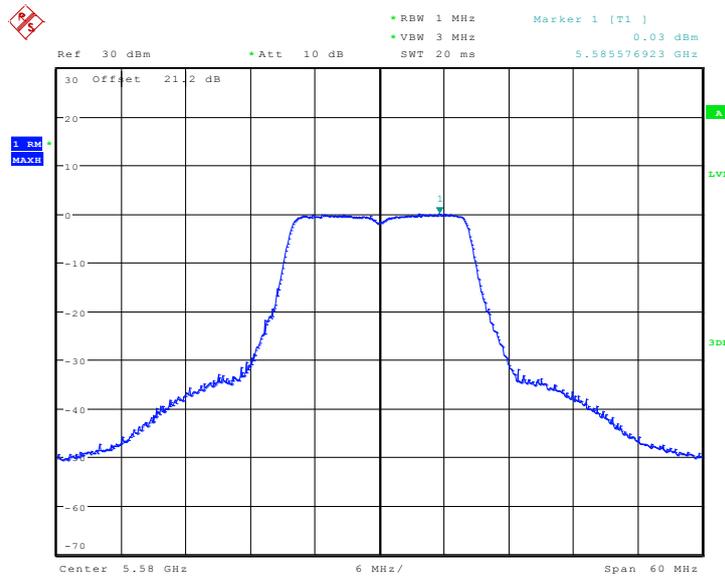
Date: 3.JAN.2014 14:28:20

Fig. 172 Peak Excursions (802.11n-HT20, ch140, peak)



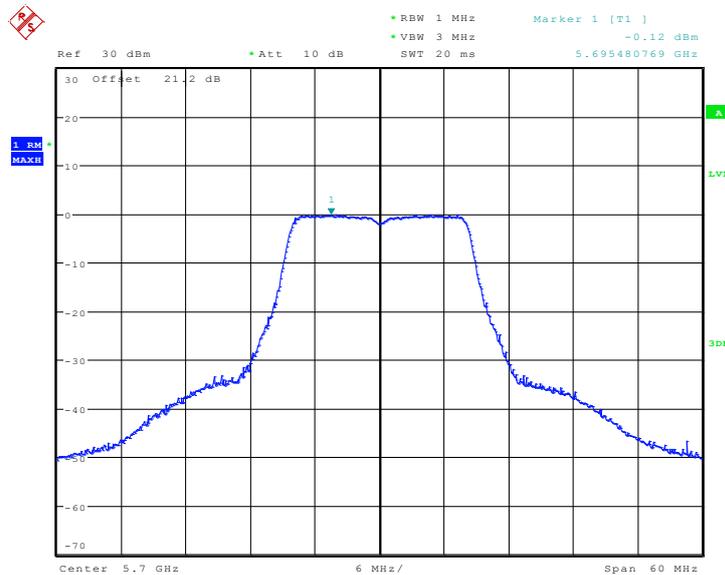
Date: 3.JAN.2014 14:26:45

Fig. 173 Peak Excursions (802.11n-HT20, ch100, average)



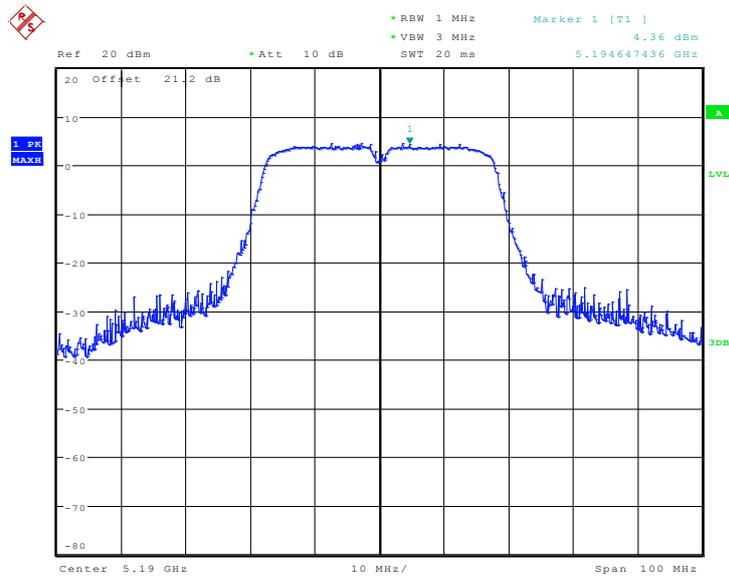
Date: 3.JAN.2014 14:27:32

Fig. 174 Peak Excursions (802.11n-HT20, ch116, average)



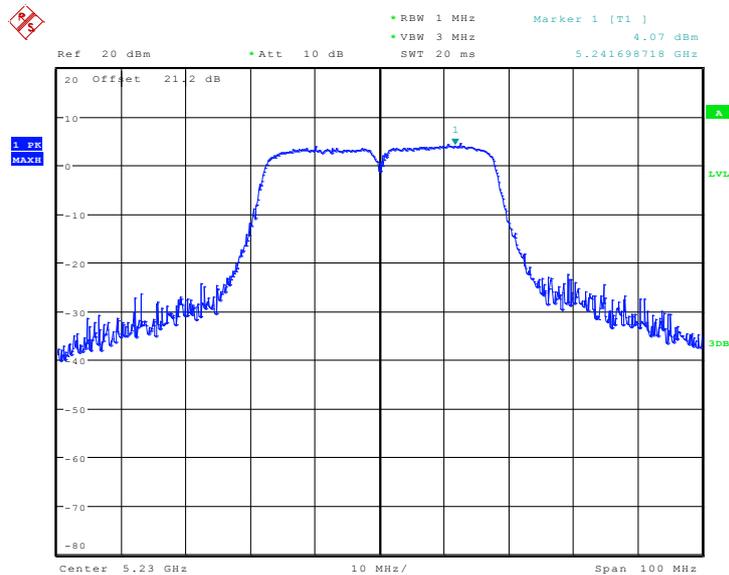
Date: 3.JAN.2014 14:28:30

Fig. 175 Peak Excursions (802.11n-HT20, ch140, average)



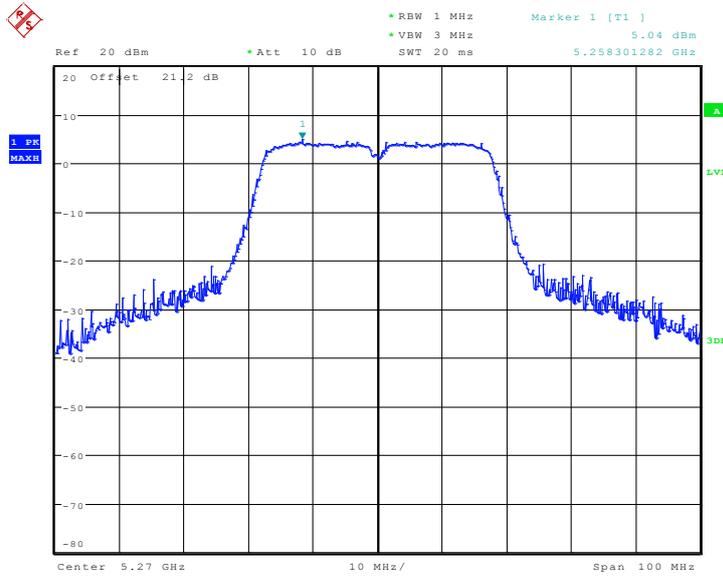
Date: 3.JAN.2014 14:31:46

Fig. 176 Peak Excursions (802.11n-HT40, ch38, peak)



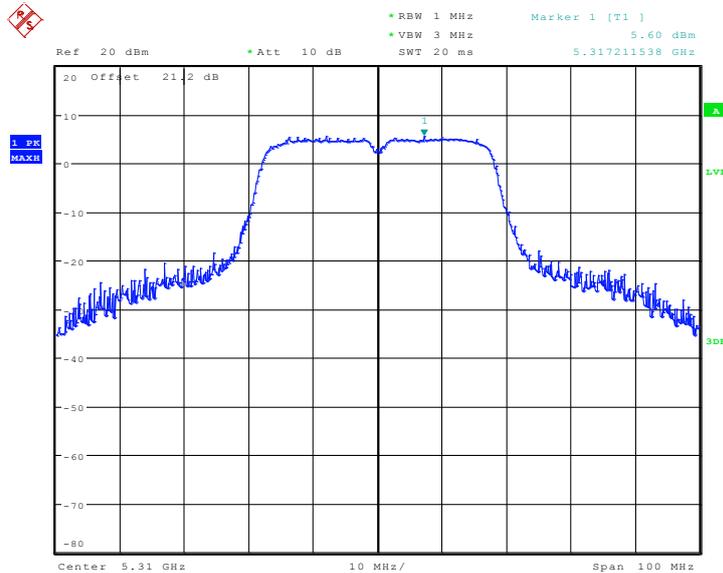
Date: 3.JAN.2014 14:32:42

Fig. 177 Peak Excursions (802.11n-HT40, ch46, peak)



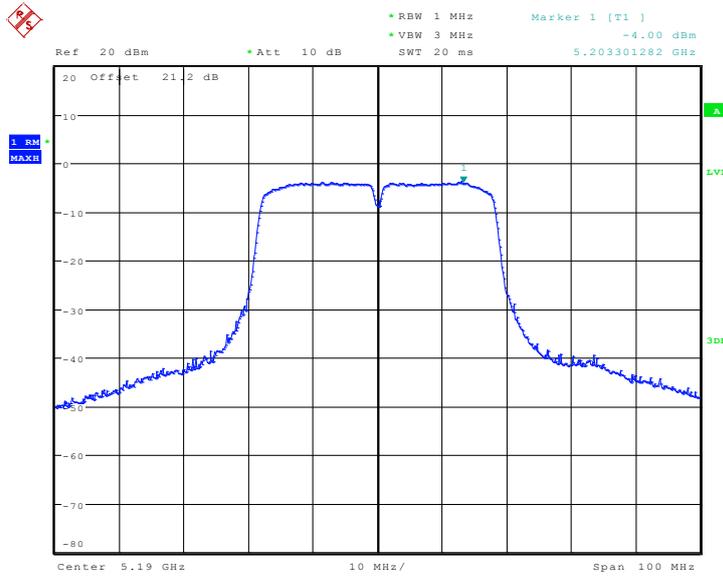
Date: 3.JAN.2014 14:33:07

Fig. 178 Peak Excursions (802.11n-HT40, ch54, peak)



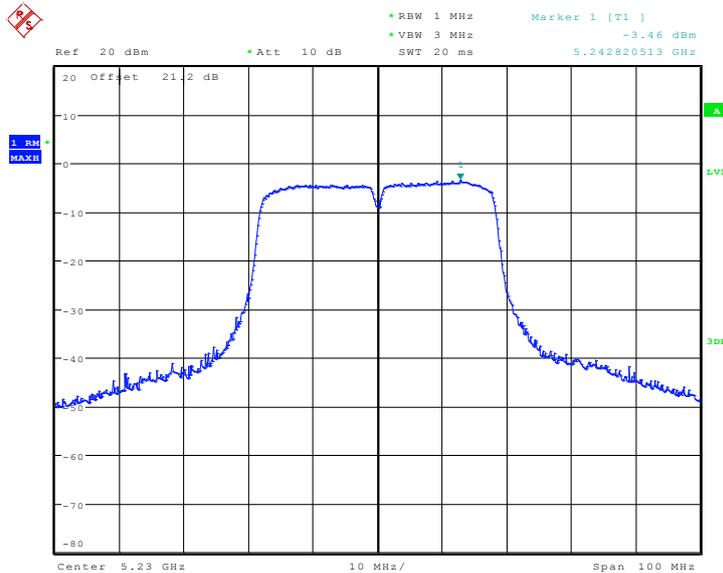
Date: 3.JAN.2014 14:34:16

Fig. 179 Peak Excursions (802.11n-HT40, ch62, peak)



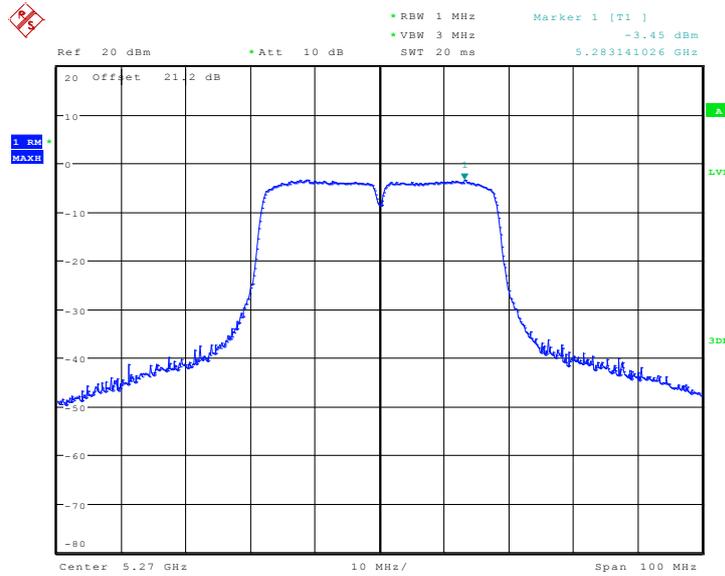
Date: 3.JAN.2014 14:31:59

Fig. 180 Peak Excursions (802.11n-HT40, ch38, average)



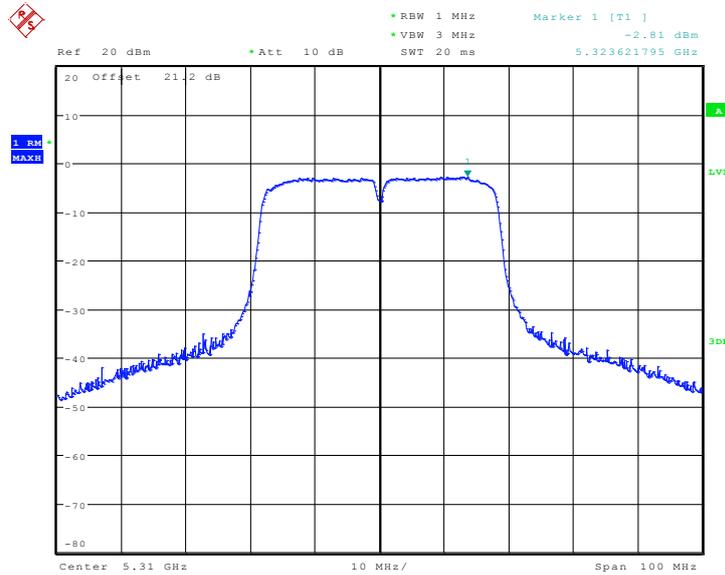
Date: 3.JAN.2014 14:32:30

Fig. 181 Peak Excursions (802.11n-HT40, ch46, average)



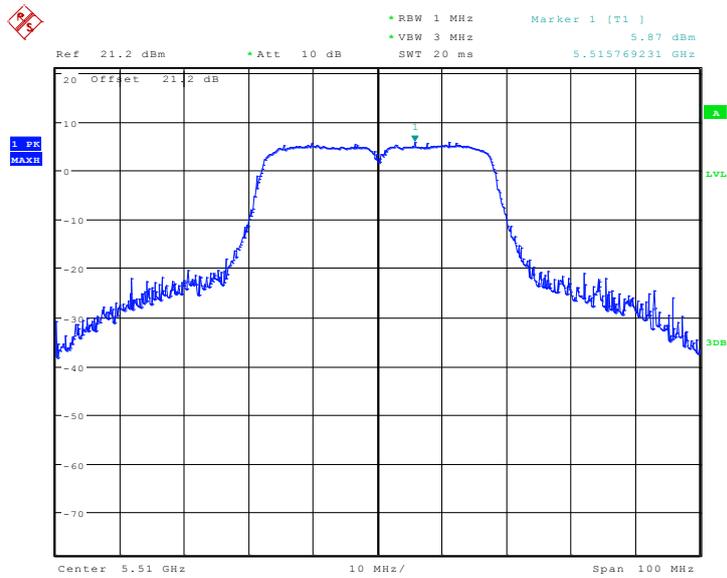
Date: 3.JAN.2014 14:33:19

Fig. 182 Peak Excursions (802.11n-HT40, ch54, average)



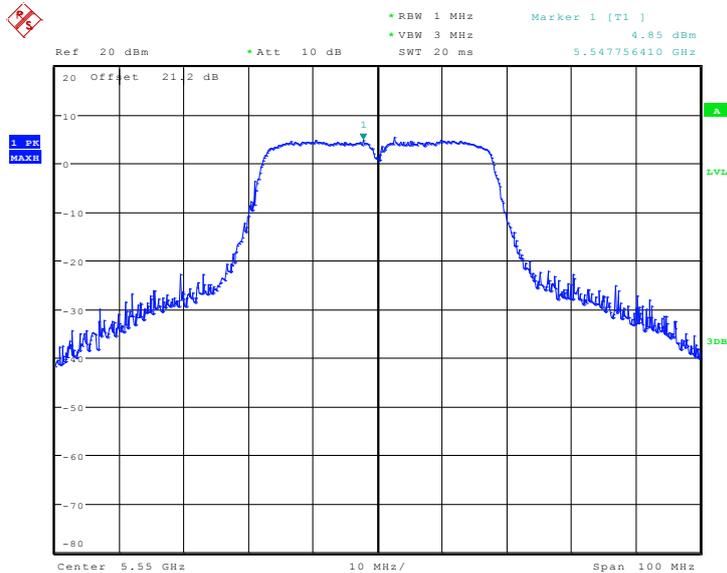
Date: 3.JAN.2014 14:33:42

Fig. 183 Peak Excursions (802.11n-HT40, ch62, average)



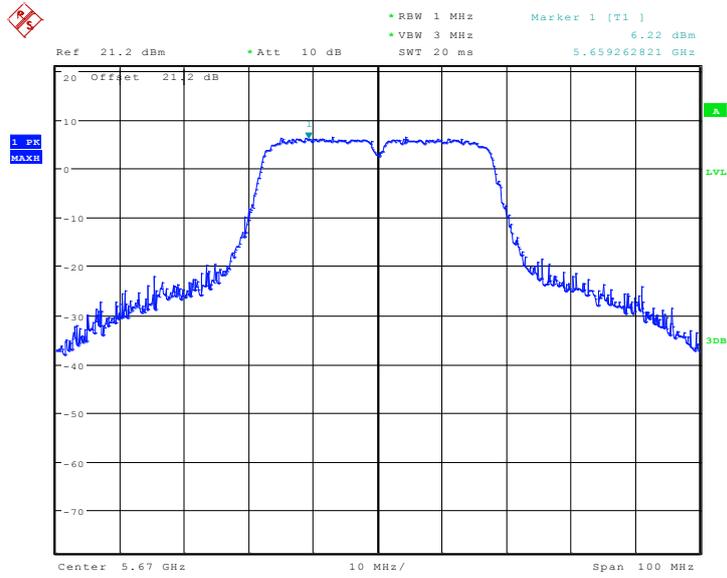
Date: 6.JAN.2014 14:11:20

Fig. 184 Peak Excursions (802.11n-HT40, ch102, peak)



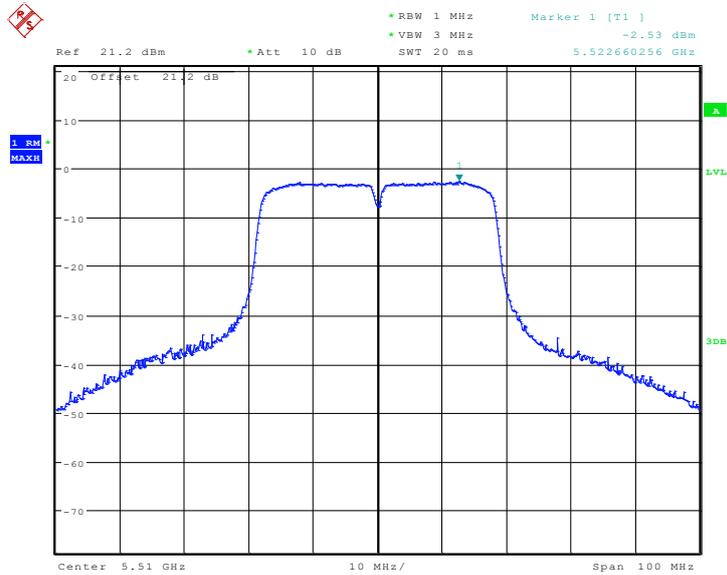
Date: 3.JAN.2014 14:34:54

Fig. 185 Peak Excursions (802.11n-HT40, ch110, peak)



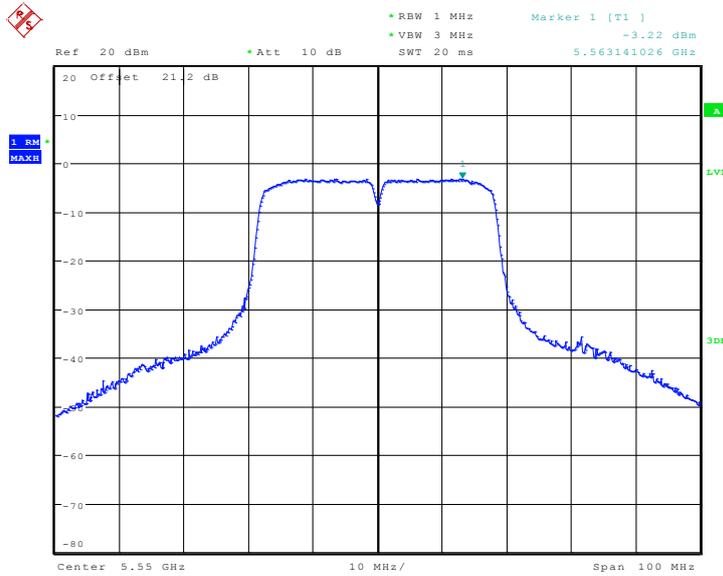
Date: 6.JAN.2014 14:12:43

Fig. 186 Peak Excursions (802.11n-HT40, ch134, peak)



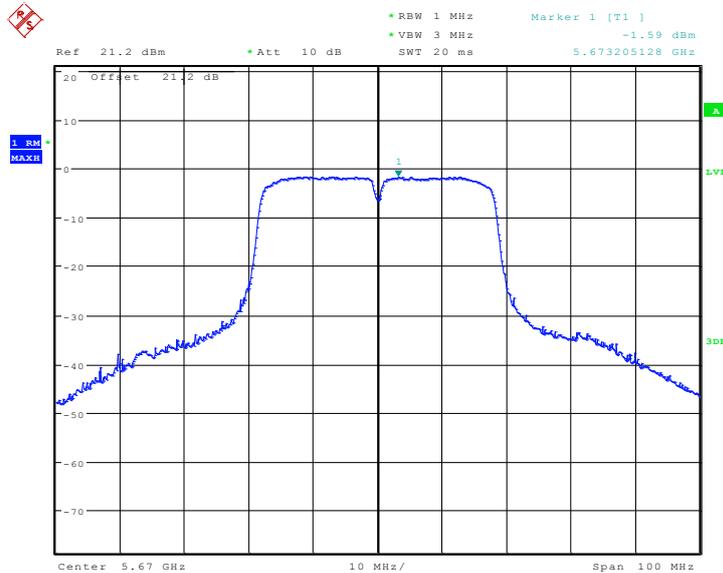
Date: 6.JAN.2014 14:11:29

Fig. 187 Peak Excursions (802.11n-HT40, ch102, average)



Date: 3.JAN.2014 14:35:05

Fig. 188 Peak Excursions (802.11n-HT40, ch110, average)



Date: 6.JAN.2014 14:12:28

Fig. 189 Peak Excursions (802.11n-HT40, ch134, average)

A.10. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

A.11. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).