



**FCC PART 15C
TEST REPORT
No. 2013WLN0677**

for

Sony Mobile Communications AB

GSM/WCDMA/CDMA2000/LTE FDD Mobile Phonee

Type: PM-0400-BV

With

FCC ID: PY7PM-0400

Hardware Version: A

Software Version: 10.2.F.1.33

Issued Date: 2013-05-14



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

Test Laboratory:

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

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

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

CONTENTS

CONTENTS	2
1. TEST LATORATORY	5
1.1. TESTING LOCATION.....	5
1.2. TESTING ENVIRONMENT.....	5
1.3. PROJECT DATA	5
1.4. SIGNATURE	5
2. CLIENT INFORMATION	6
2.1. APPLICANT INFORMATION.....	6
2.2. MANUFACTURER INFORMATION.....	6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)	7
3.1. ABOUT EUT	7
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST.....	7
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
3.4. GENERAL DESCRIPTION	8
4. REFERENCE DOCUMENTS	8
4.1. DOCUMENTS SUPPLIED BY APPLICANT.....	8
4.2. REFERENCE DOCUMENTS FOR TESTING.....	8
5. LABORATORY ENVIRONMENT	9
6. SUMMARY OF TEST RESULTS	10
6.1. SUMMARY OF TEST RESULTS	10
6.2. STATEMENTS.....	10
7. TEST EQUIPMENTS UTILIZED	11
ANNEX A: MEASUREMENT RESULTS	12
A.1. MEASUREMENT METHOD	12
A.2. MAXIMUM PEAK OUTPUT POWER	13
A.2.1. ANTENNA GAIN.....	13
A.2.2. MAXIMUM PEAK OUTPUT POWER.....	13
A.3. PEAK POWER SPECTRAL DENSITY	14
A.4. OCCUPIED 6dB BANDWIDTH	15
FIG. 1 OCCUPIED 6dB BANDWIDTH (802.11A, CH 149).....	15
FIG. 2 OCCUPIED 6dB BANDWIDTH (802.11A, CH 157).....	16
FIG. 3 OCCUPIED 6dB BANDWIDTH (802.11A, CH 165).....	16
FIG. 4 OCCUPIED 6dB BANDWIDTH (802.11N-HT20, CH 149).....	17
FIG. 5 OCCUPIED 6dB BANDWIDTH (802.11N-HT20, CH 157).....	17
FIG. 6 OCCUPIED 6dB BANDWIDTH (802.11N-HT20, CH 165).....	18
FIG. 7 OCCUPIED 6dB BANDWIDTH (802.11N-HT40, CH 151).....	18
FIG. 8 OCCUPIED 6dB BANDWIDTH (802.11N-HT40, CH 157).....	19

A.5. TRANSMITTER SPURIOUS EMISSION	20
A.6.1 TRANSMITTER SPURIOUS EMISSION - CONDUCTED	20
FIG. 9 CONDUCTED SPURIOUS EMISSION (802.11A, CH149, CENTER FREQUENCY)	22
FIG. 10 CONDUCTED SPURIOUS EMISSION (802.11A, CH149, 30 MHZ-12 GHZ)	22
FIG. 11 CONDUCTED SPURIOUS EMISSION (802.11A, CH149, 12 GHZ-25 GHZ)	23
FIG. 12 CONDUCTED SPURIOUS EMISSION (802.11A, CH149, 25 GHZ-40 GHZ)	23
FIG. 13 CONDUCTED SPURIOUS EMISSION (802.11A, CH157, CENTER FREQUENCY)	24
FIG. 14 CONDUCTED SPURIOUS EMISSION (802.11A, CH157, 30 MHZ-12 GHZ)	24
FIG. 15 CONDUCTED SPURIOUS EMISSION (802.11A, CH157, 12 GHZ-25 GHZ)	25
FIG. 16 CONDUCTED SPURIOUS EMISSION (802.11A, CH157, 25 GHZ-40 GHZ)	25
FIG. 17 CONDUCTED SPURIOUS EMISSION (802.11A, CH165, CENTER FREQUENCY)	26
FIG. 18 CONDUCTED SPURIOUS EMISSION (802.11A, CH165, 30 MHZ-12 GHZ)	26
FIG. 19 CONDUCTED SPURIOUS EMISSION (802.11A, CH165, 12 GHZ-25 GHZ)	27
FIG. 20 CONDUCTED SPURIOUS EMISSION (802.11A, CH165, 25 GHZ-40 GHZ)	27
FIG. 21 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH149, CENTER FREQUENCY)	28
FIG. 22 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH149, 30 MHZ-12 GHZ)	28
FIG. 23 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH149, 12 GHZ-25 GHZ)	29
FIG. 24 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH149, 25 GHZ-40 GHZ)	29
FIG. 25 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH157, CENTER FREQUENCY)	30
FIG. 26 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH157, 30 MHZ-12 GHZ)	30
FIG. 27 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH157, 12 GHZ-25 GHZ)	31
FIG. 28 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH157, 25 GHZ-40 GHZ)	31
FIG. 29 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH165, CENTER FREQUENCY)	32
FIG. 30 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH165, 30 MHZ-12 GHZ)	32
FIG. 31 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH165, 12 GHZ-25 GHZ)	33
FIG. 32 CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH165, 25 GHZ-40 GHZ)	33
FIG. 33 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH151, CENTER FREQUENCY)	34
FIG. 34 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH151, 30 MHZ-12 GHZ)	34
FIG. 35 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH151, 12 GHZ-25 GHZ)	35
FIG. 36 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH151, 25 GHZ-40 GHZ)	35
FIG. 37 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH159, CENTER FREQUENCY)	36
FIG. 38 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH159, 30 MHZ-12 GHZ)	36
FIG. 39 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH159, 12 GHZ-25 GHZ)	37
FIG. 40 CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH151, 25 GHZ-40 GHZ)	37
A.6.2 TRANSMITTER SPURIOUS EMISSION - RADIATED	38
FIG. 41 RADIATED SPURIOUS EMISSION (802.11A, CH149, 30 MHZ-1 GHZ)	39
FIG. 42 RADIATED SPURIOUS EMISSION (802.11A, CH149, 1 GHZ-3 GHZ)	40
FIG. 43 RADIATED SPURIOUS EMISSION (802.11A, CH149, 3 GHZ-6 GHZ)	40
FIG. 44 RADIATED SPURIOUS EMISSION (802.11A, CH149, 6 GHZ-18 GHZ)	41
FIG. 45 RADIATED SPURIOUS EMISSION (802.11A, CH149, 18 GHZ-26.5 GHZ)	41
FIG. 46 RADIATED SPURIOUS EMISSION (802.11A, CH149, 26.5 GHZ-40 GHZ)	42
FIG. 47 RADIATED SPURIOUS EMISSION (802.11A, CH157, 30 MHZ-1 GHZ)	42
FIG. 48 RADIATED SPURIOUS EMISSION (802.11A, CH157, 1 GHZ-3 GHZ)	43
FIG. 49 RADIATED SPURIOUS EMISSION (802.11A, CH157, 3 GHZ-6 GHZ)	43

FIG. 50	RADIATED SPURIOUS EMISSION (802.11A, CH157, 6 GHZ-18 GHZ)	44
FIG. 51	RADIATED SPURIOUS EMISSION (802.11A, CH157, 18 GHZ-26.5 GHZ)	44
FIG. 52	RADIATED SPURIOUS EMISSION (802.11A, CH165, 26.5 GHZ-40 GHZ)	45
FIG. 53	RADIATED SPURIOUS EMISSION (802.11A, CH165, 30 MHZ-1 GHZ)	45
FIG. 54	RADIATED SPURIOUS EMISSION (802.11A, CH165, 1 GHZ-3 GHZ)	46
FIG. 55	RADIATED SPURIOUS EMISSION (802.11A, CH165, 3 GHZ-6 GHZ)	46
FIG. 56	RADIATED SPURIOUS EMISSION (802.11A, CH165, 6 GHZ-18 GHZ)	47
FIG. 57	RADIATED SPURIOUS EMISSION (802.11A, CH165, 18 GHZ-26.5 GHZ)	47
FIG. 58	RADIATED SPURIOUS EMISSION (802.11A, CH165, 26.5 GHZ-40 GHZ)	48
FIG. 59	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 30 MHZ-1 GHZ)	48
FIG. 60	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 1 GHZ-3 GHZ)	49
FIG. 61	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 3 GHZ-6 GHZ)	49
FIG. 62	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 6 GHZ-18 GHZ)	50
FIG. 63	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 18 GHZ-26.5 GHZ)	50
FIG. 64	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH149, 26.5 GHZ-40 GHZ)	51
FIG. 65	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 30 MHZ-1 GHZ)	51
FIG. 66	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 1 GHZ-3 GHZ)	52
FIG. 67	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 3 GHZ-6 GHZ)	52
FIG. 68	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 6 GHZ-18 GHZ)	53
FIG. 69	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 18 GHZ-26.5 GHZ)	53
FIG. 70	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH157, 26.5 GHZ-40 GHZ)	54
FIG. 71	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 30 MHZ-1 GHZ)	54
FIG. 72	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 1 GHZ-3 GHZ)	55
FIG. 73	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 3 GHZ-6 GHZ)	55
FIG. 74	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 6 GHZ-18 GHZ)	56
FIG. 75	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 18 GHZ-26.5 GHZ)	56
FIG. 76	RADIATED SPURIOUS EMISSION (802.11N-HT20, CH165, 26.5 GHZ-40 GHZ)	57
FIG. 77	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH151, 30 MHZ-1 GHZ)	57
FIG. 78	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH151, 1 GHZ-3 GHZ)	58
FIG. 79	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH151, 3 GHZ-6 GHZ)	58
FIG. 80	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH151, 6 GHZ-18 GHZ)	59
FIG. 81	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH151, 18 GHZ-26.5 GHZ)	59
FIG. 82	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH159, 30 MHZ-1 GHZ)	60
FIG. 83	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH159, 1 GHZ-3 GHZ)	60
FIG. 84	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH159, 3 GHZ-6 GHZ)	61
FIG. 85	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH159, 6 GHZ-18 GHZ)	61
FIG. 86	RADIATED SPURIOUS EMISSION (802.11N-HT40, CH159, 18 GHZ-26.5 GHZ)	62
FIG. 87	RADIATED EMISSION: 802.11N, 26.5 GHZ - 40 GHZ	62
A.7	AC POWERLINE CONDUCTED EMISSION	63
FIG. 88	AC POWERLINE CONDUCTED EMISSION-802.11A MODE	64
FIG. 89	AC POWERLINE CONDUCTED EMISSION-IDLE	65

1. TEST LATORATORY

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China
Postal Code: 100191
Telephone: +86-10-62304633-2561
Fax: +86-10-62304633-2504

1.2. Testing Environment

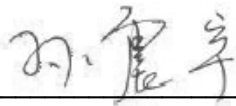
Normal Temperature: 15-30°C
Extreme Temperature: -20/+55°C
Relative Humidity: 30-60%
Air Pressure 990hPa-1040hPa

Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Project Leader: SunZhenyu
Testing Start Date: 2013-03-16
Testing End Date: 2013-04-12

1.4. Signature



Sun Zhenyu
(Prepared this test report)



Gao Hong
(Reviewed this test report)



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

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Sony Mobile Communications (China) Co. Ltd
Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,
Chaoyang District
City: Beijing
Postal Code: 100102
Country: China
Contact Person: Ma, Gang
Telephone: +86-10-58656312
Fax: +86-10-58659049

2.2. Manufacturer Information

Company Name: Sony Mobile Communications AB
Address /Post: Nya Vattentornet, 22188 Lund, Sweden
City: Lund
Postal Code: 22188
Country: Sweden
Contact Person: Nordlof, Anders
Telephone: +46-10-802 3919
Fax: +46-10-800 2441

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	GSM 850/900/1800/1900, GPRS, EDGE, WCDMA FDD Band 1/2/5, HSDPA, HSUPA, LTE FDD Band 1/11/18, CDMA2000 Band Class0/6 Bluetooth EDR & BLE, WLAN (802.11 a/b/g/n), FM, NFC, GPS receiver mobile phone
Type	PM-0400-BV
FCC ID	PY7PM-0400
WLAN Frequency Range	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Number of Channels	a/n-HT20 mode: 5 n-HT40 mode: 2
GSM Frequency Band	GSM 850/900/1800/1900
UMTS Frequency Band	FDD Band 1 / FDD Band 2 / FDD Band 5
LTE Frequency Band	FDD Band 1 / FDD Band 11 / FDD Band 18
CDMA2000 Band	Band Class 0/6
Antenna	Integral Antenna
MAX Radiated Power	19.49dBm(OFDM)
MAX Conducted Power	20.96dBm(OFDM)
Extreme Temperature	-20/+55°C
Normal Voltage	4.1VDC
Extreme Low Voltage	3.5VDC
Extreme High Voltage	4.1VDC

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	CB5123RQCN	004402450736727	A	10.2.F.1.33
EUT2	CB5123SGQ0	004402450925304	A	10.2.F.1.33

*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	EP880	/
AE2	USB Cable	AI-0401	/
AE3	Battery	AB-0300	/

*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/CDMA2000/LTE FDD Mobile Phonee with integrated antenna.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD bands 1/2/5, LTE FDD bands 1/11/18 and CDMA2000 band class0/6. It also supports GPRS service with multi-slots class 12 and EGPRS service with multi-slots class 12 too. The HSDPA and HSUPA features are also supported.

It has MP3, camera, FM radio, USB memory, GPS receiver, NFC, Mobile High-Definition Link (MHL), Bluetooth (EDR and Bluetooth 4.0), WLAN (802.11 a/b/g/n) and Wi-Fi hotspot functions.

It includes normal option: travel charger, Portable Hands-Free and 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 CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	
FCC Part15	15.209 Radiated emission limits, general requirements;	Oct,
	15.247 Operation within the bands 902–928MHz,	2010
	2400–2483.5 MHz, and 5725–5850 MHz.	
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
KDB558074	Measurement of Digital Transmission Systems Operating under Section 15.247	Jan, 2012

5. LABORATORY ENVIRONMENT

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Semi-anechoic chamber (10 meters×6.7meters×6.15meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 M ohm
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Shielding Room2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (a)	/	P
Peak Power Spectral Density	15.247 (d)	/	P
Occupied 6dB Bandwidth	15.247 (d)	/	P
Band Edges Compliance	15.247 (b)	/	P
Transmitter Spurious Emission - Conducted	15.247	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.209, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

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

The measurement is made according to Public notice KDB558074 and ANSI C63.4.

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.

Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.7V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-19
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-08-13

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2014-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2014-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2013-12-25
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2014-06-30

Anechoic chamber

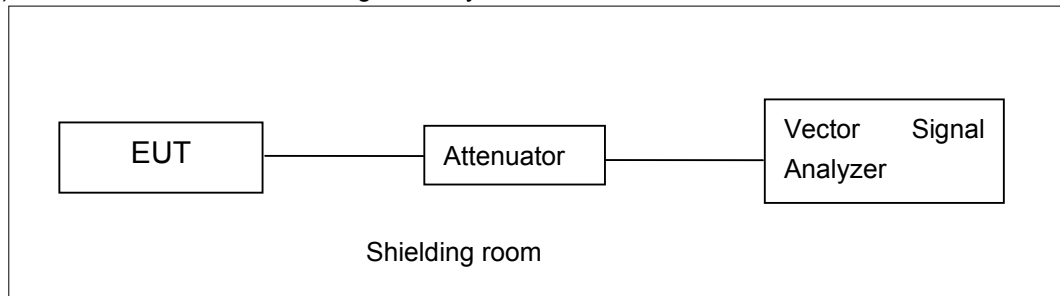
Fully anechoic chamber by Frankonia German.

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

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

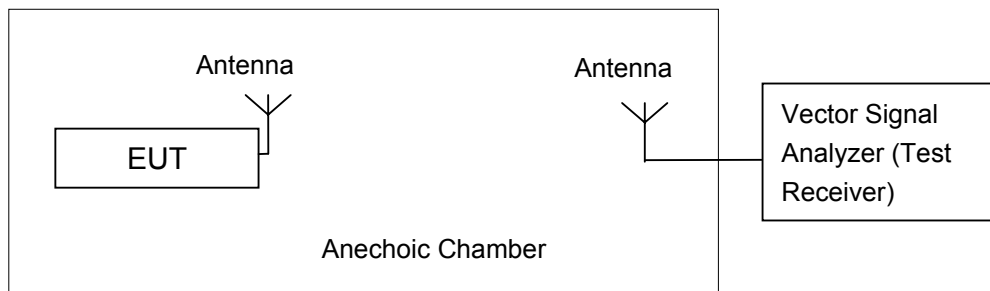


A.1.2. Radiated Emission Measurements

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

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

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



The measurement is made according to ANSI C63.4 and KDB558074

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

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

A.2.1. Antenna Gain

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

Test	Channel		
Tnom,Vnom	149	157	165
Conducted Power(dBm)	16.56	15.27	15.92
Radiated Power(dBm)	15.09	14.33	14.83
Gain(dBi)	-1.47	-0.94	-1.09

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

A.2.2. Maximum Peak Output Power

Measurement Results:

802.11a

Mode	Test Result (dBm)					
	5745 MHz (Ch149)		5785 MHz (Ch157)		5825 MHz (Ch165)	
	Conducted	Radiated	Conducted	Radiated	Conducted	Radiated
802.11a	20.96	19.49	19.49	18.55	20.07	18.98

802.11n-HT20

Mode	Test Result (dBm)					
	5745 MHz (Ch149)		5785 MHz (Ch157)		5825 MHz (Ch165)	
	Conducted	Radiated	Conducted	Radiated	Conducted	Radiated
802.11n-HT20	18.16	16.69	17.23	16.29	16.98	15.89

802.11n-HT40

Mode	Test Result (dBm)			
	5755 MHz (Ch151)		5795 MHz (Ch159)	
	Conducted	Radiated	Conducted	Radiated
802.11n-HT40	17.16	15.69	16.38	15.44

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

Measurement Results:

Mode	Channel	Power Spectral Density (dBm/3 kHz)	Conclusion
802.11a	149	-4.52	P
	157	-5.05	P
	165	-5.15	P
802.11n HT20	149	-7.11	P
	157	-8.64	P
	165	-8.33	P
802.11n HT40	151	-11.05	P
	159	-10.81	P

Conclusion: PASS

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

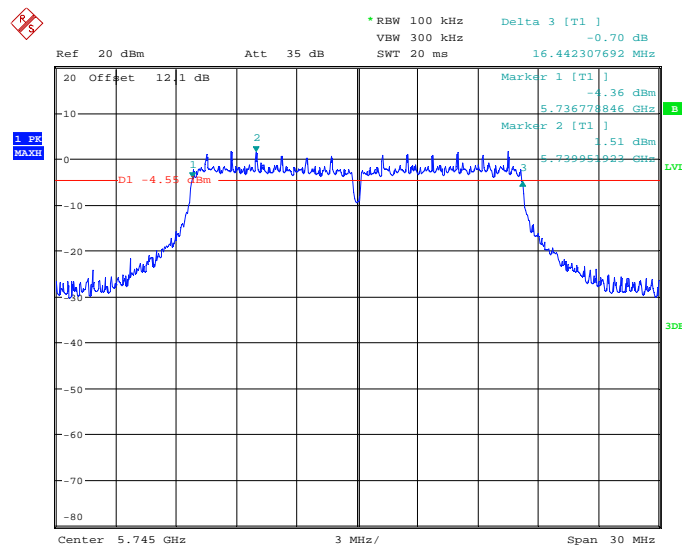
Measurement Uncertainty	60.80Hz
-------------------------	---------

Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11a	149	Fig.1	16442	P
	157	Fig.2	16490	P
	165	Fig.3	16442	P
802.11n HT20	149	Fig.4	17837	P
	157	Fig.5	17837	P
	165	Fig.6	17837	P
802.11n HT40	151	Fig.7	36538	P
	159	Fig.8	36538	P

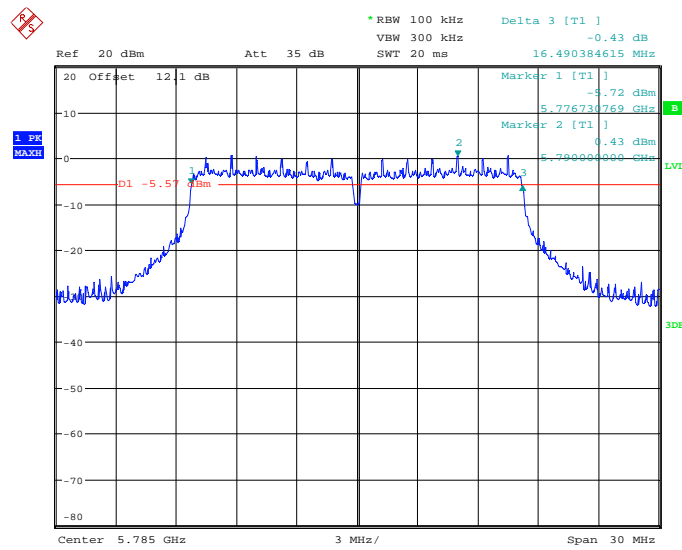
Conclusion: PASS

Test graphs as below:



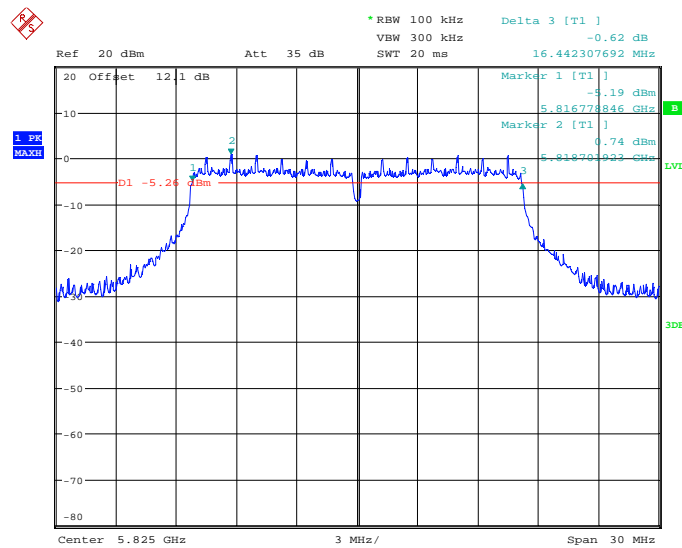
Date: 10.APR.2013 18:32:19

Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)



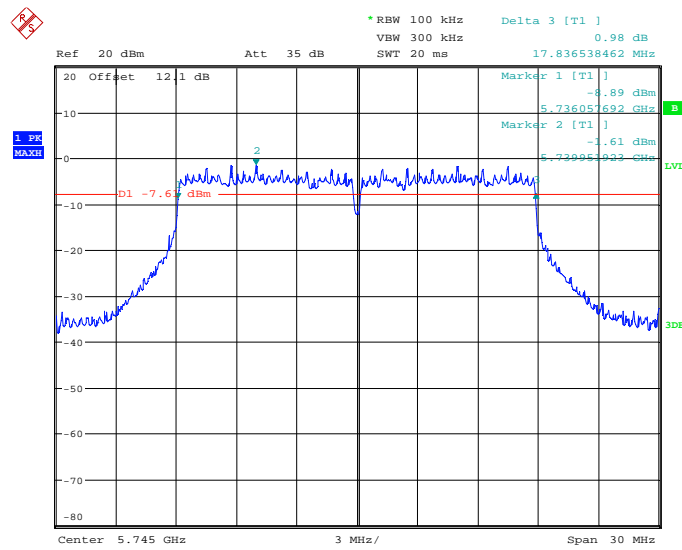
Date: 10.APR.2013 18:30:29

Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)



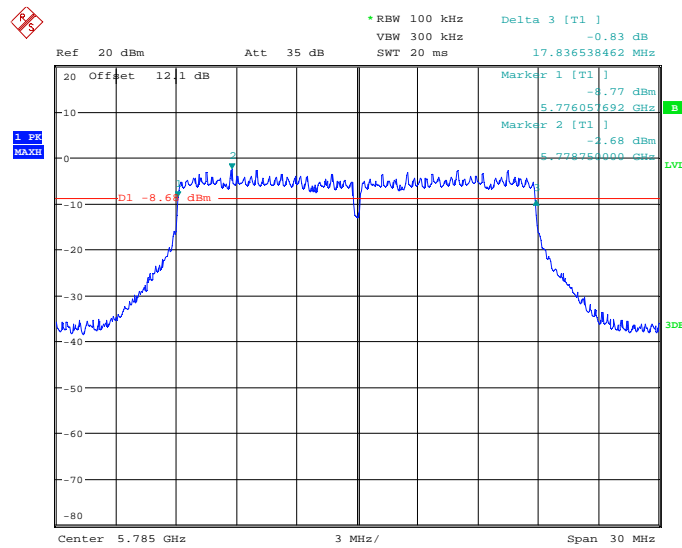
Date: 10.APR.2013 18:29:09

Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)



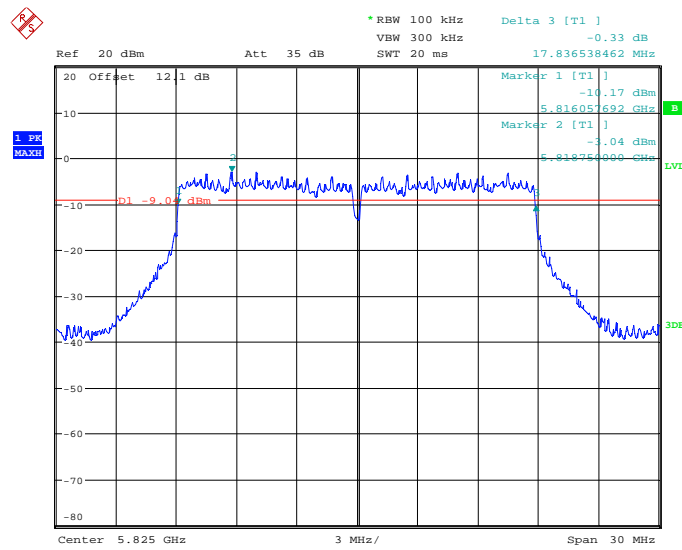
Date: 10.APR.2013 18:33:24

Fig. 4 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)



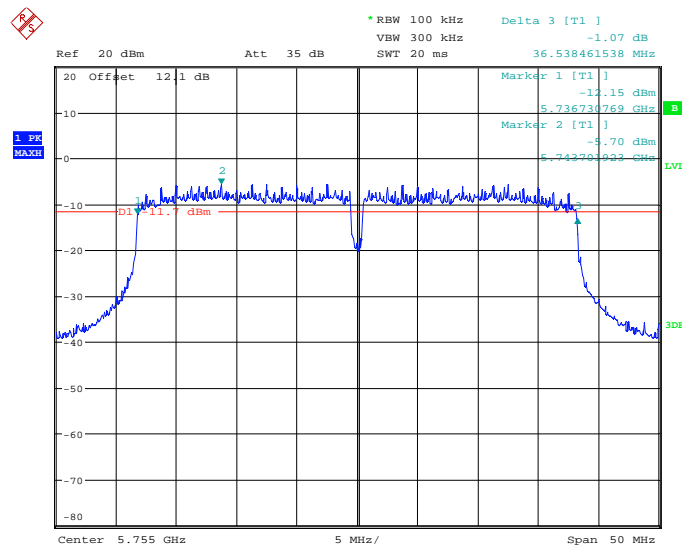
Date: 10.APR.2013 18:35:40

Fig. 5 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)



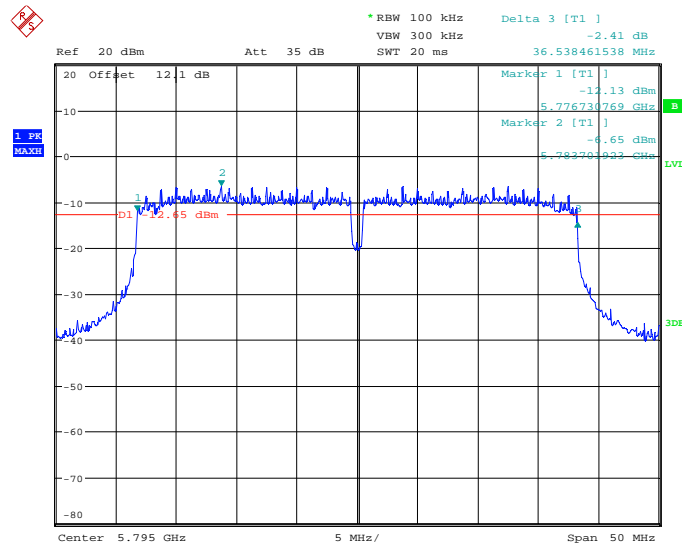
Date: 10.APR.2013 18:37:05

Fig. 6 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)



Date: 10.APR.2013 18:41:39

Fig. 7 Occupied 6dB Bandwidth (802.11n-HT40, Ch 151)



Date: 10.APR.2013 18:38:30

Fig. 8 Occupied 6dB Bandwidth (802.11n-HT40, Ch 157)

A.5. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.4 and KDB558074

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)).

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Uncertainty:

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

A.6.1 Transmitter Spurious Emission - Conducted

Measurement Results:

802.11a mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	5.745 GHz	Fig.9	P
		30 MHz ~ 12 GHz	Fig.10	P
		12 GHz ~ 25 GHz	Fig.11	P
		25 GHz ~ 40 GHz	Fig.12	P
	157	5.785 GHz	Fig.13	P
		30 MHz ~ 12 GHz	Fig.14	P
		12 GHz ~ 25 GHz	Fig.15	P
		25 GHz ~ 40 GHz	Fig.16	P
	165	5.825 GHz	Fig.17	P
		30 MHz ~ 12 GHz	Fig.18	P
		12 GHz ~ 25 GHz	Fig.19	P
		25 GHz ~ 40 GHz	Fig.20	P

802.11n-HT20 mode

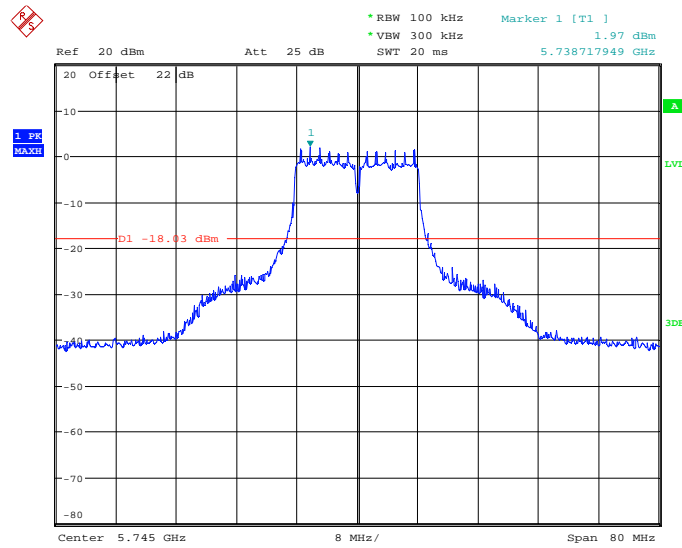
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n HT20	149	5.745 GHz	Fig.21	P
		30 MHz ~ 12 GHz	Fig.22	P
		12 GHz ~ 25 GHz	Fig.23	P
		25 GHz ~ 40 GHz	Fig.24	P
	157	5.785 GHz	Fig.25	P
		30 MHz ~ 12 GHz	Fig.26	P
		12 GHz ~ 25 GHz	Fig.27	P
		25 GHz ~ 40 GHz	Fig.28	P
	165	5.825 GHz	Fig.29	P
		30 MHz ~ 12 GHz	Fig.30	P
		12 GHz ~ 25 GHz	Fig.31	P
		25 GHz ~ 40 GHz	Fig.32	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (40MHz)	151	5.755 GHz	Fig.33	P
		30 MHz ~ 12 GHz	Fig.34	P
		12 GHz ~ 25 GHz	Fig.35	P
		25 GHz ~ 40 GHz	Fig.36	P
	159	5.795 GHz	Fig.37	P
		30 MHz ~ 12 GHz	Fig.38	P
		12 GHz ~ 25 GHz	Fig.39	P
		25 GHz ~ 40 GHz	Fig.40	P

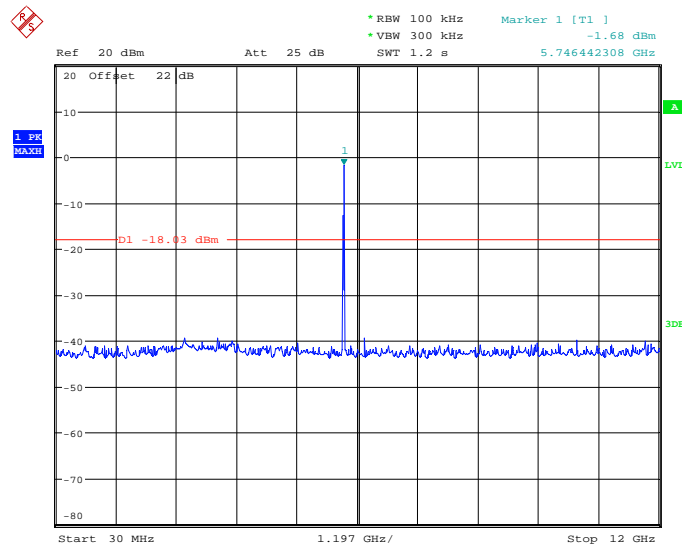
Conclusion: PASS

Test graphs as below:



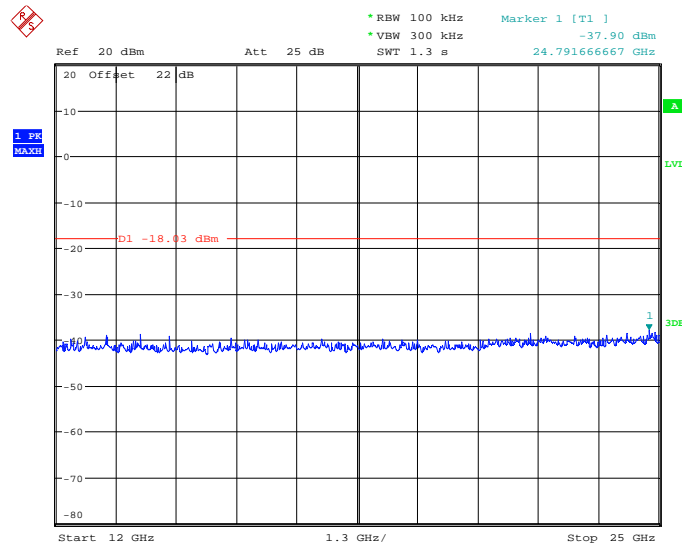
Date: 11.APR.2013 15:37:49

Fig. 9 Conducted Spurious Emission (802.11a, Ch149, Center Frequency)



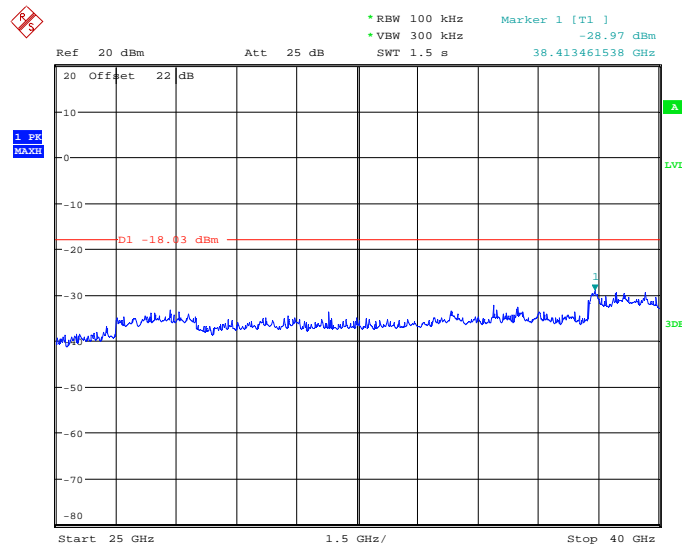
Date: 11.APR.2013 15:38:14

Fig. 10 Conducted Spurious Emission (802.11a, Ch149, 30 MHz-12 GHz)



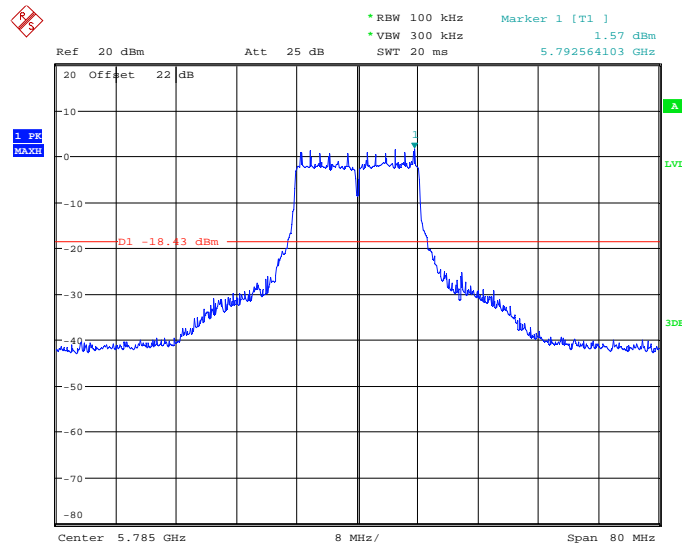
Date: 11.APR.2013 15:38:30

Fig. 11 Conducted Spurious Emission (802.11a, Ch149, 12 GHz-25 GHz)



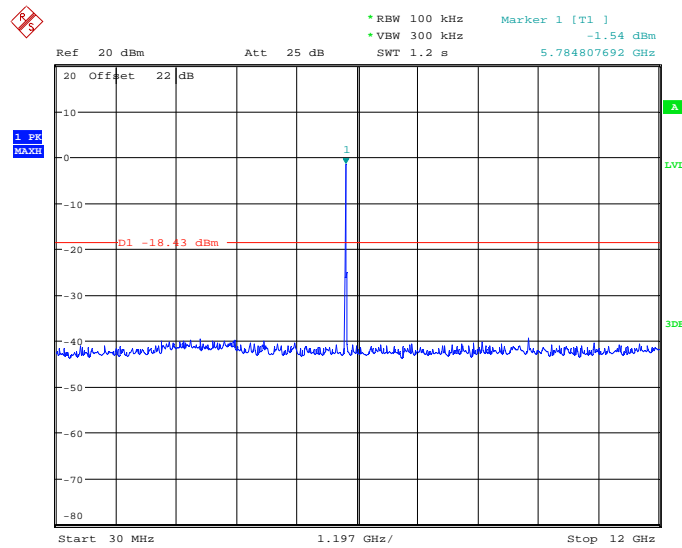
Date: 11.APR.2013 15:38:54

Fig. 12 Conducted Spurious Emission (802.11a, Ch149, 25 GHz-40 GHz)



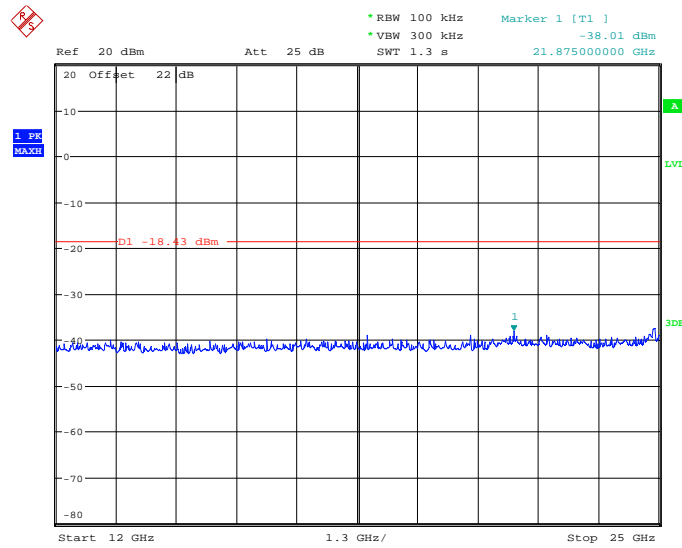
Date: 11.APR.2013 15:40:29

Fig. 13 Conducted Spurious Emission (802.11a, Ch157, Center Frequency)



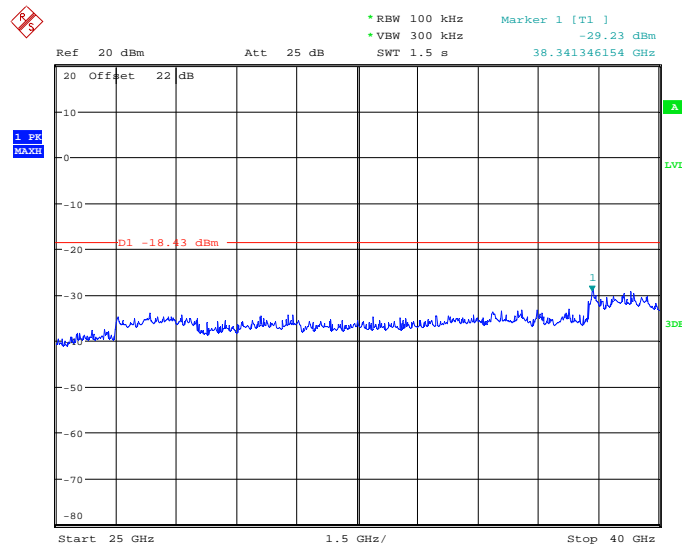
Date: 11.APR.2013 15:40:55

Fig. 14 Conducted Spurious Emission (802.11a, Ch157, 30 MHz-12 GHz)



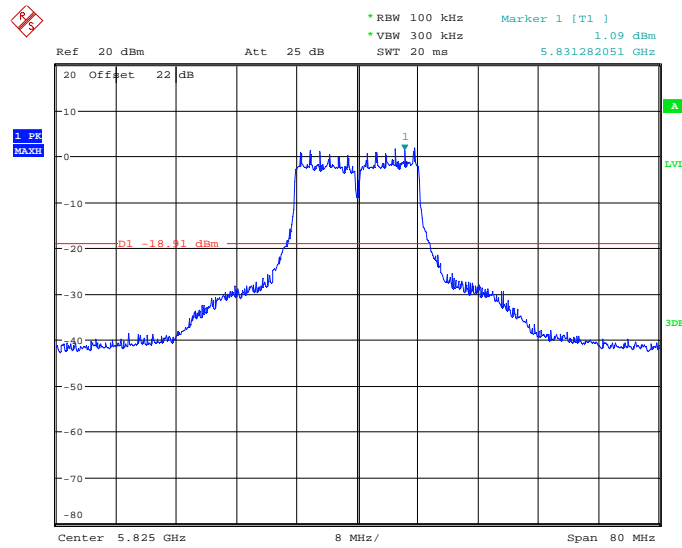
Date: 11.APR.2013 15:41:12

Fig. 15 Conducted Spurious Emission (802.11a, Ch157, 12 GHz-25 GHz)



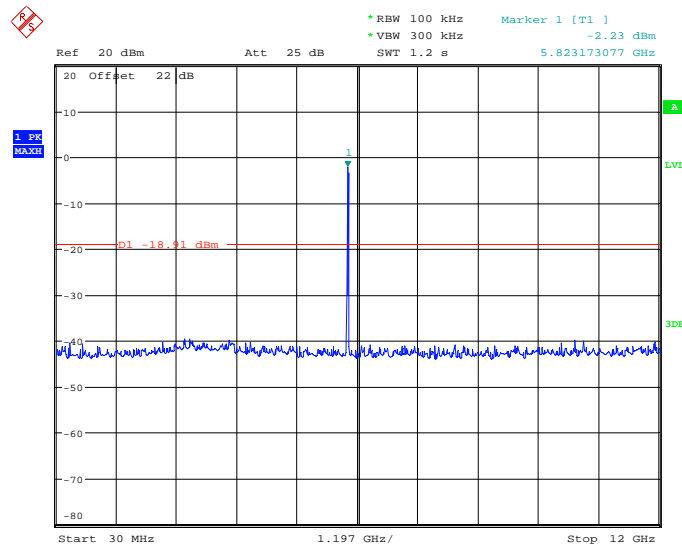
Date: 11.APR.2013 15:41:30

Fig. 16 Conducted Spurious Emission (802.11a, Ch157, 25 GHz-40 GHz)



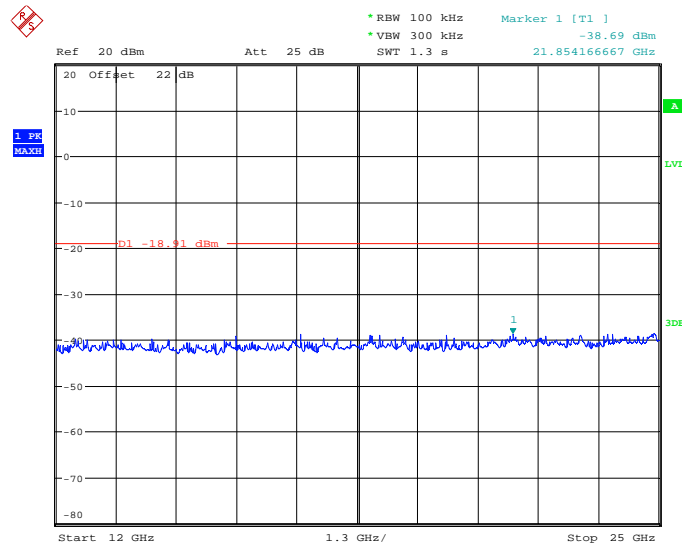
Date: 11.APR.2013 15:43:18

Fig. 17 Conducted Spurious Emission (802.11a, Ch165, Center Frequency)



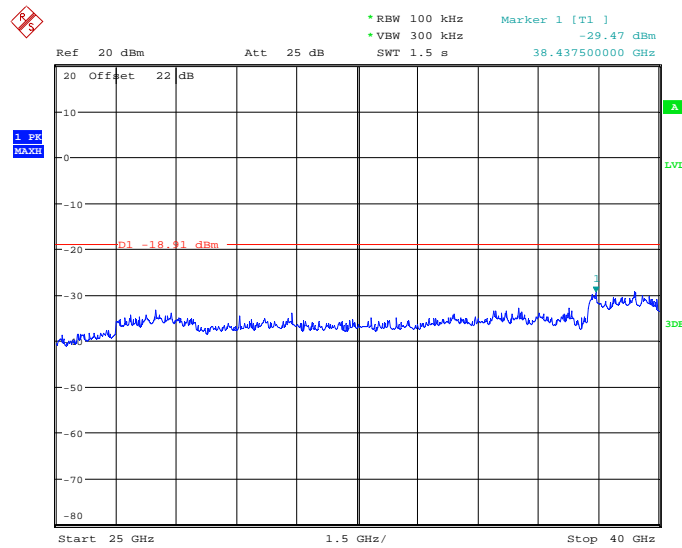
Date: 11.APR.2013 15:43:40

Fig. 18 Conducted Spurious Emission (802.11a, Ch165, 30 MHz-12 GHz)



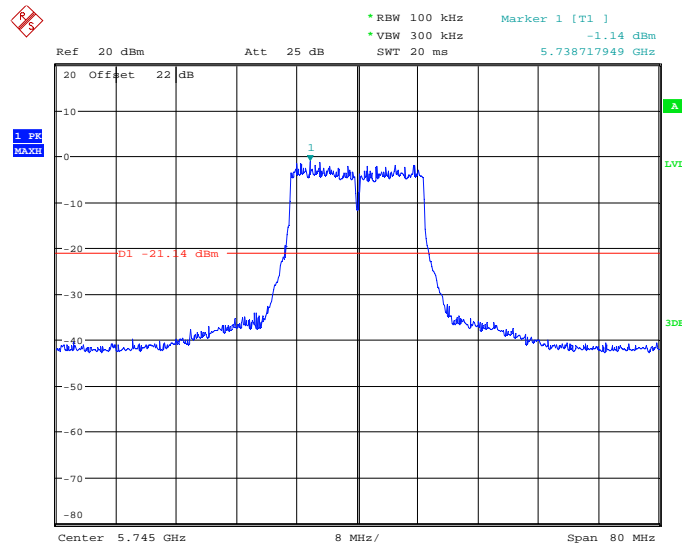
Date: 11.APR.2013 15:43:58

Fig. 19 Conducted Spurious Emission (802.11a, Ch165, 12 GHz-25 GHz)



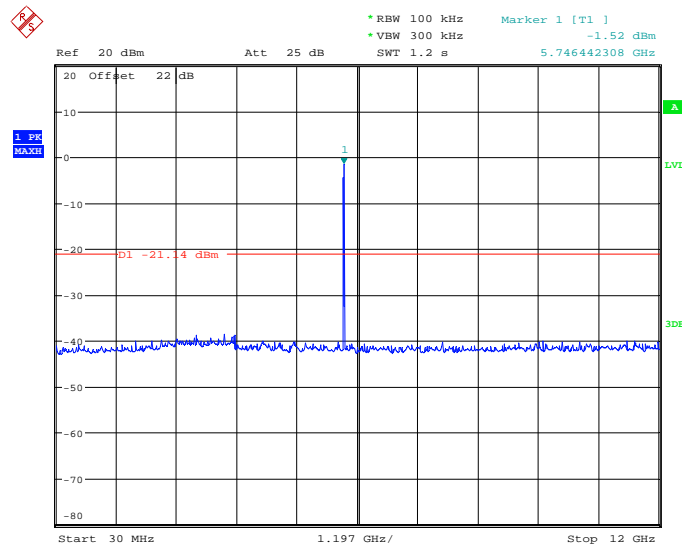
Date: 11.APR.2013 15:44:14

Fig. 20 Conducted Spurious Emission (802.11a, Ch165, 25 GHz-40 GHz)



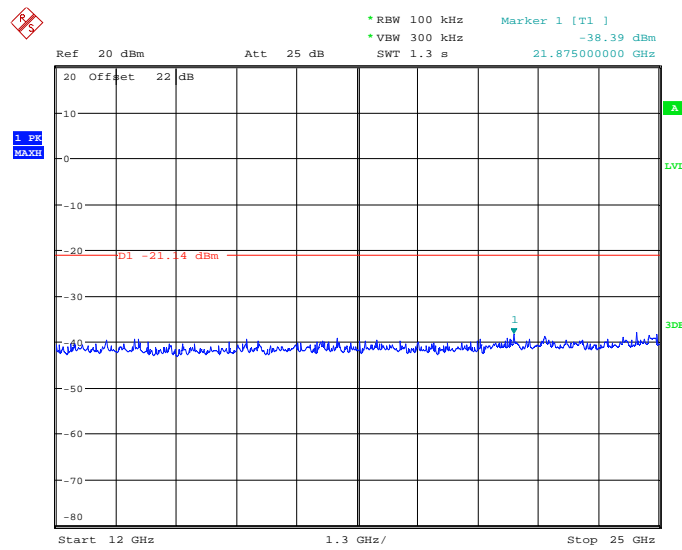
Date: 11.APR.2013 15:59:53

Fig. 21 Conducted Spurious Emission (802.11n-HT20, Ch149, Center Frequency)



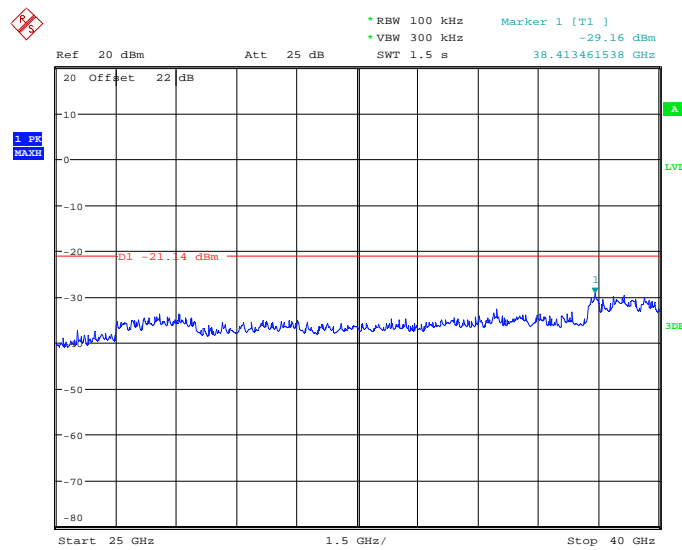
Date: 11.APR.2013 16:01:02

Fig. 22 Conducted Spurious Emission (802.11n-HT20, Ch149, 30 MHz-12 GHz)



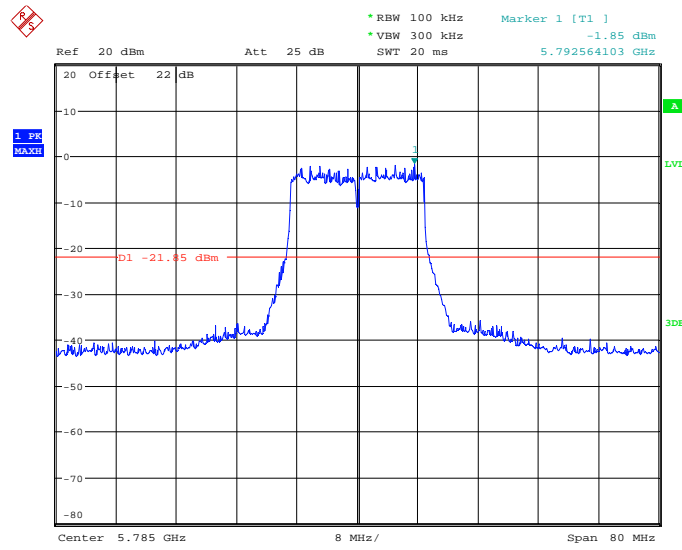
Date: 11.APR.2013 16:01:19

Fig. 23 Conducted Spurious Emission (802.11n-HT20, Ch149, 12 GHz-25 GHz)



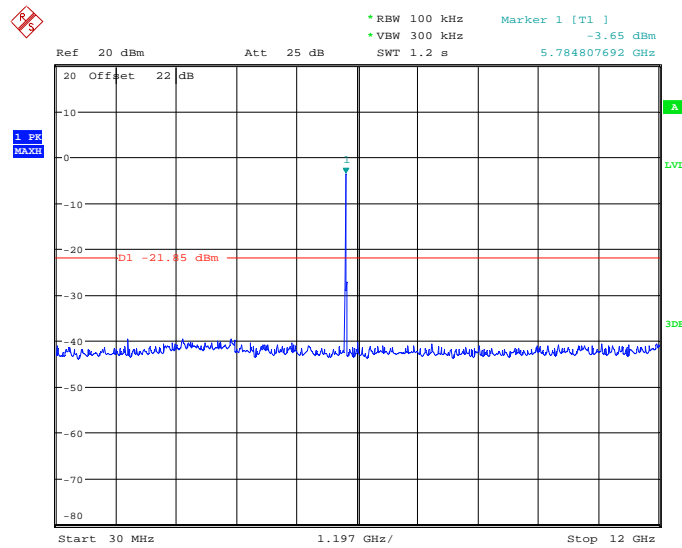
Date: 11.APR.2013 16:01:37

Fig. 24 Conducted Spurious Emission (802.11n-HT20, Ch149, 25 GHz-40 GHz)



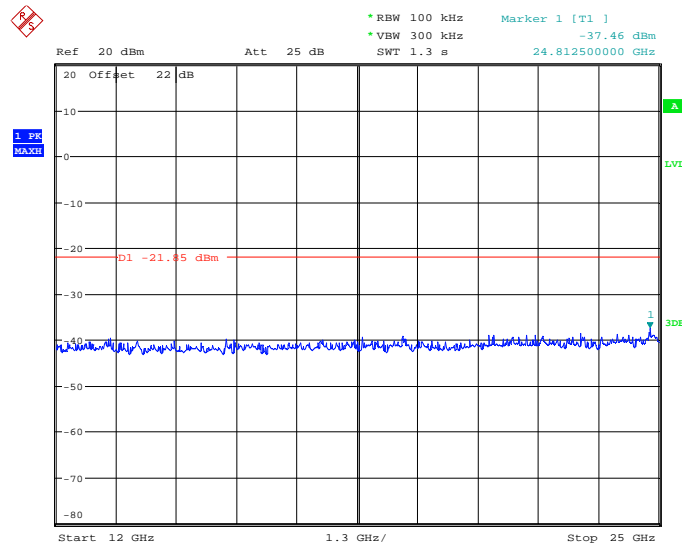
Date: 11.APR.2013 16:02:42

Fig. 25 Conducted Spurious Emission (802.11n-HT20, Ch157, Center Frequency)



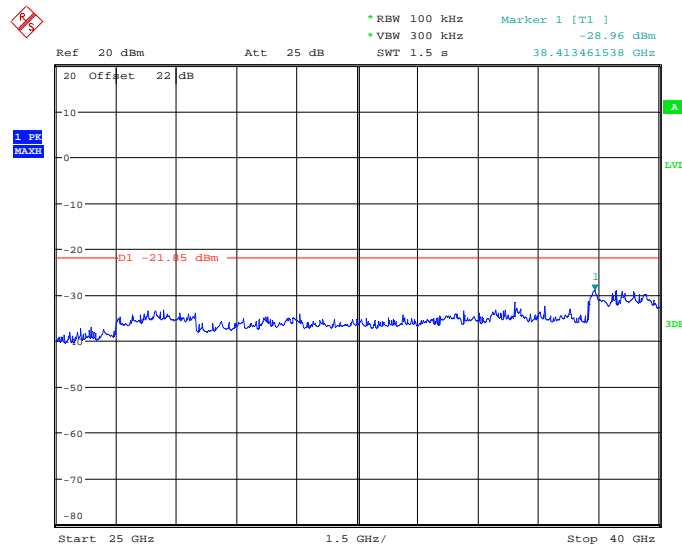
Date: 11.APR.2013 16:03:01

Fig. 26 Conducted Spurious Emission (802.11n-HT20, Ch157, 30 MHz-12 GHz)



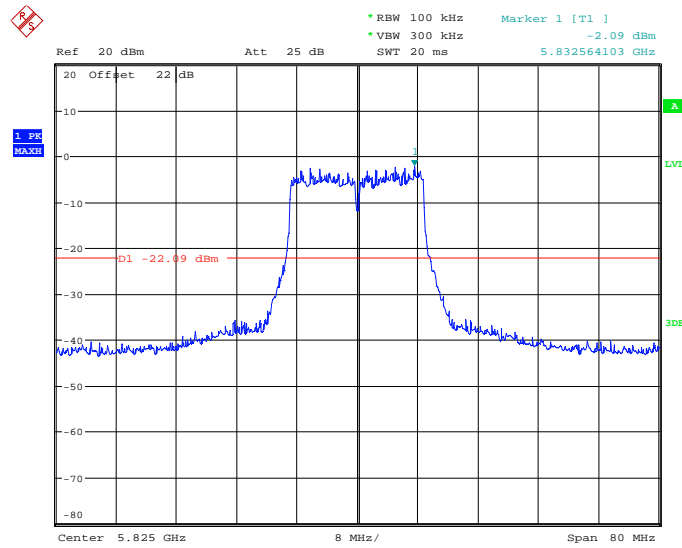
Date: 11.APR.2013 16:04:23

Fig. 27 Conducted Spurious Emission (802.11n-HT20, Ch157, 12 GHz-25 GHz)



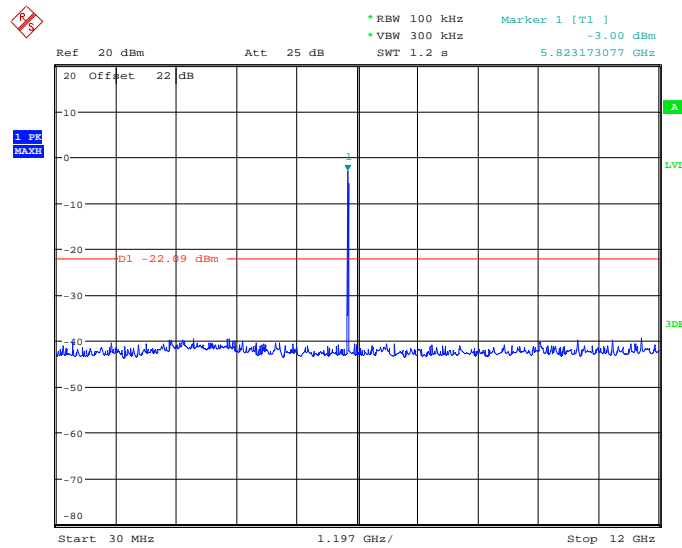
Date: 11.APR.2013 16:04:56

Fig. 28 Conducted Spurious Emission (802.11n-HT20, Ch157, 25 GHz-40 GHz)



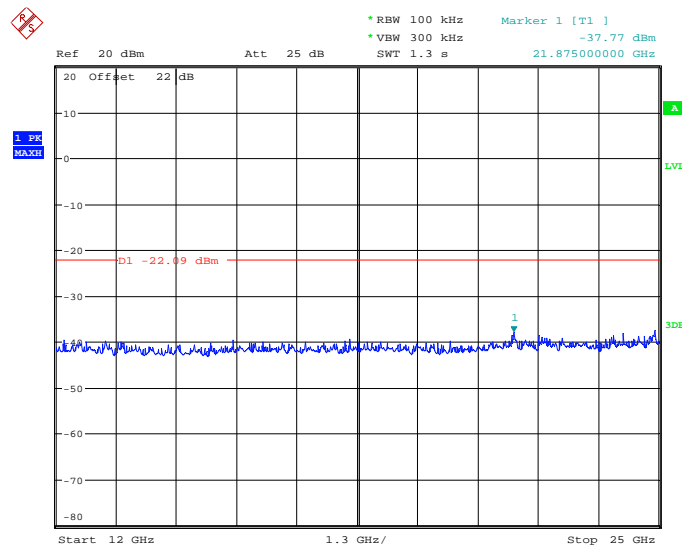
Date: 11.APR.2013 16:07:43

Fig. 29 Conducted Spurious Emission (802.11n-HT20, Ch165, Center Frequency)



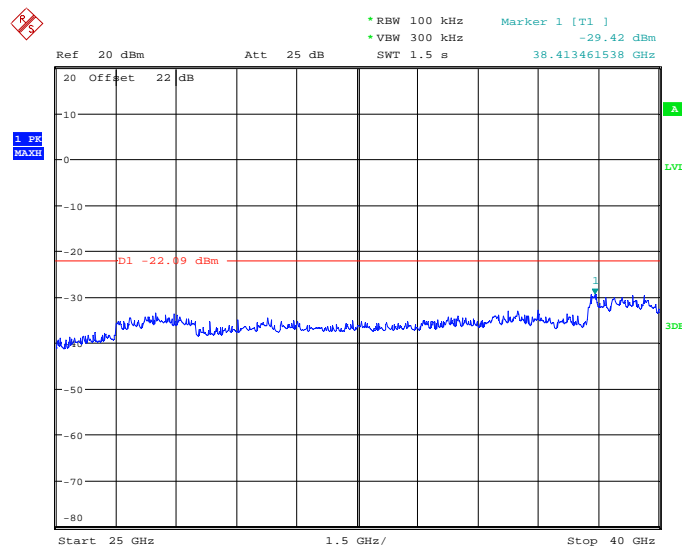
Date: 11.APR.2013 16:08:05

Fig. 30 Conducted Spurious Emission (802.11n-HT20, Ch165, 30 MHz-12 GHz)



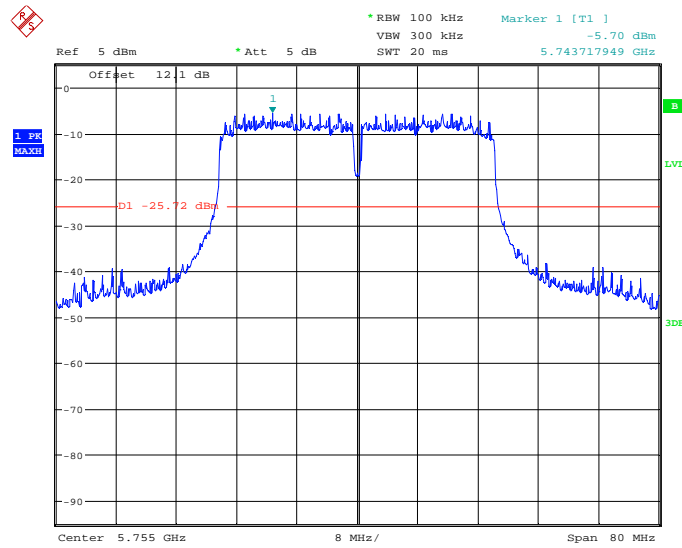
Date: 11.APR.2013 16:08:23

Fig. 31 Conducted Spurious Emission (802.11n-HT20, Ch165, 12 GHz-25 GHz)



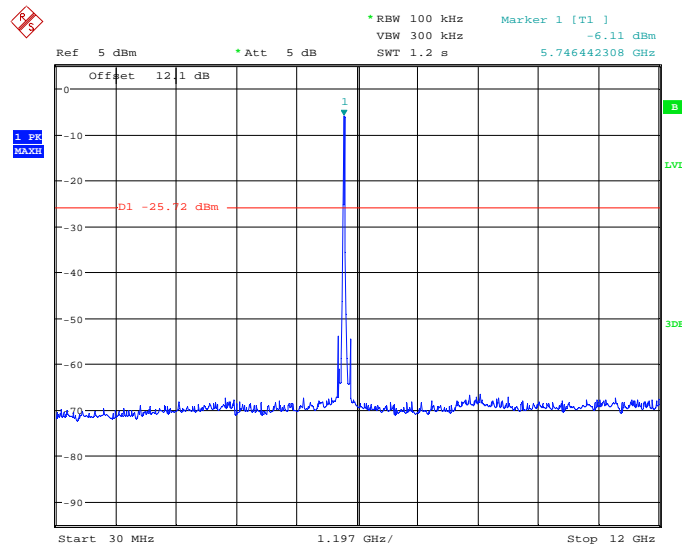
Date: 11.APR.2013 16:08:43

Fig. 32 Conducted Spurious Emission (802.11n-HT20, Ch165, 25 GHz-40 GHz)



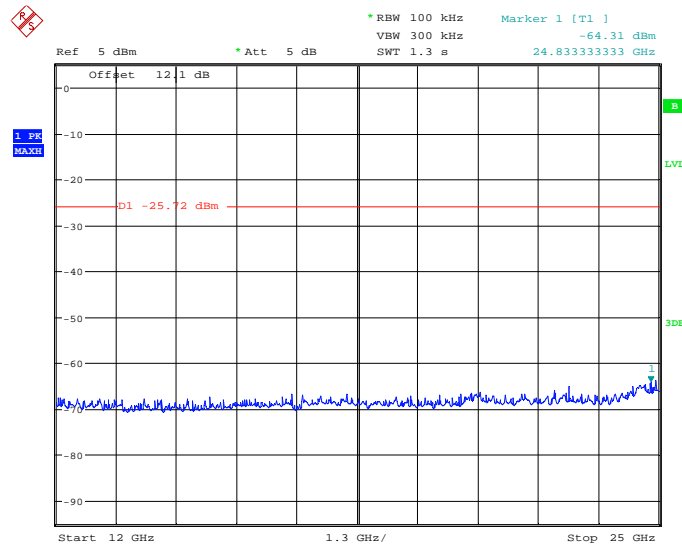
Date: 10.APR.2013 18:47:22

Fig. 33 Conducted Spurious Emission (802.11n-HT40, Ch151, Center Frequency)



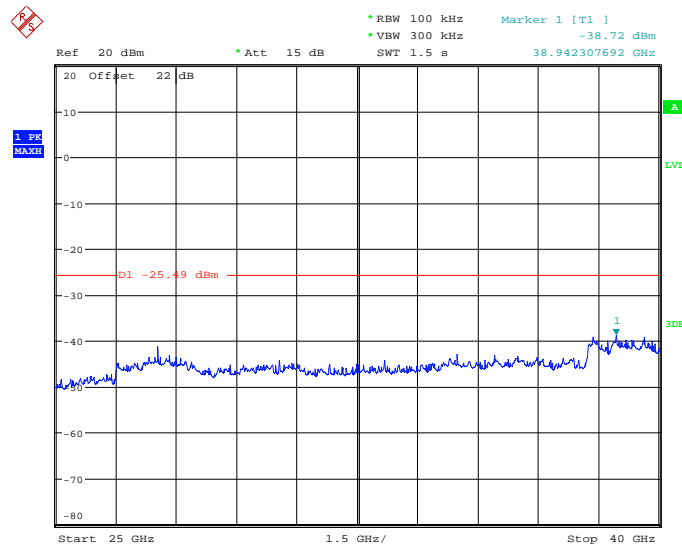
Date: 10.APR.2013 18:47:48

Fig. 34 Conducted Spurious Emission (802.11n-HT40, Ch151, 30 MHz-12 GHz)



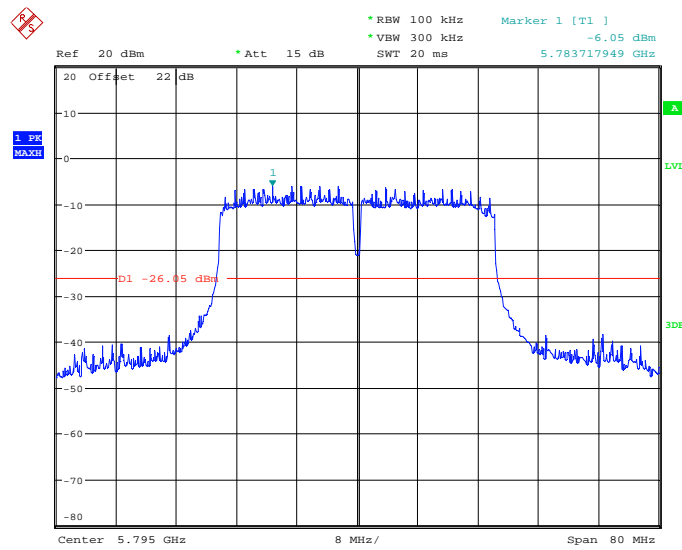
Date: 10.APR.2013 18:48:07

Fig. 35 Conducted Spurious Emission (802.11n-HT40, Ch151, 12 GHz-25 GHz)



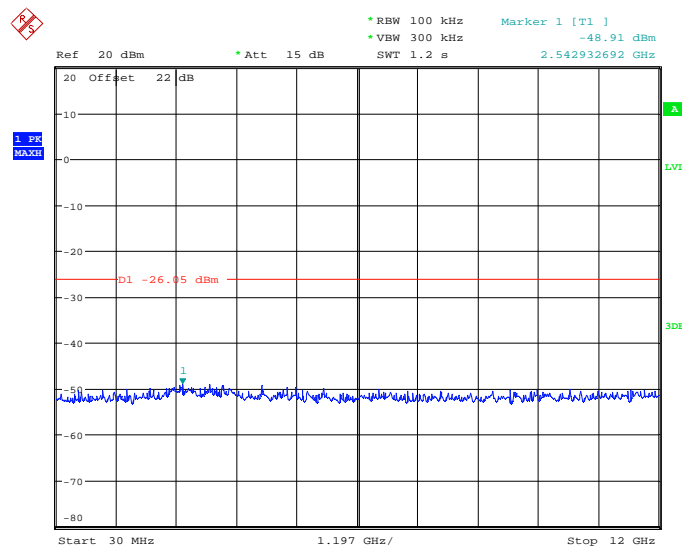
Date: 11.APR.2013 17:12:49

Fig. 36 Conducted Spurious Emission (802.11n-HT40, Ch151, 25 GHz-40 GHz)



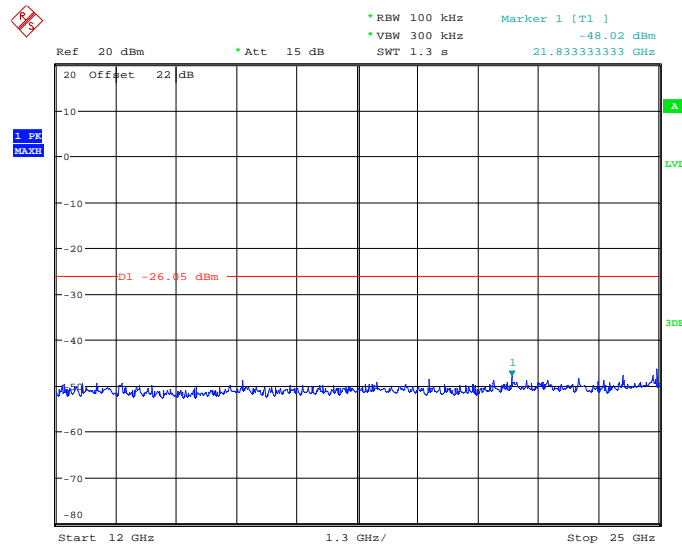
Date: 11.APR.2013 17:13:58

Fig. 37 Conducted Spurious Emission (802.11n-HT40, Ch159, Center Frequency)



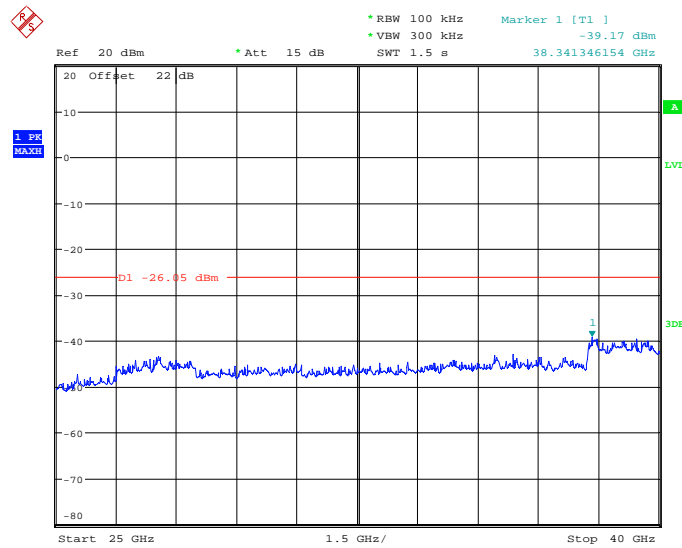
Date: 11.APR.2013 17:14:26

Fig. 38 Conducted Spurious Emission (802.11n-HT40, Ch159, 30 MHz-12 GHz)



Date: 11.APR.2013 17:14:41

Fig. 39 Conducted Spurious Emission (802.11n-HT40, Ch159, 12 GHz-25 GHz)



Date: 11.APR.2013 17:15:01

Fig. 40 Conducted Spurious Emission (802.11n-HT40, Ch151, 25 GHz-40 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Limit in restricted band:

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	30 MHz ~1 GHz	Fig.41	P
		1 GHz ~ 3 GHz	Fig.42	P
		3 GHz ~ 6 GHz	Fig.43	P
		6 GHz ~ 18 GHz	Fig.44	P
		18 GHz ~ 26.5 GHz	Fig.45	P
		26.5 GHz ~ 40 GHz	Fig.46	P
	157	30 MHz ~1 GHz	Fig.47	P
		1 GHz ~ 3 GHz	Fig.48	P
		3 GHz ~ 6 GHz	Fig.49	P
		6 GHz ~ 18 GHz	Fig.50	P
		18 GHz ~ 26.5 GHz	Fig.51	P
		26.5 GHz ~ 40 GHz	Fig.52	P
	165	30 MHz ~1 GHz	Fig.53	P
		1 GHz ~ 3 GHz	Fig.54	P
		3 GHz ~ 6 GHz	Fig.55	P
		6 GHz ~ 18 GHz	Fig.56	P
		18 GHz ~ 26.5 GHz	Fig.57	P
		26.5 GHz ~ 40 GHz	Fig.58	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	30 MHz ~1 GHz	Fig.59	P
		1 GHz ~ 3 GHz	Fig.60	P
		3 GHz ~ 6 GHz	Fig.61	P
		6 GHz ~ 18 GHz	Fig.62	P
		18 GHz ~ 26.5 GHz	Fig.63	P
		26.5 GHz ~ 40 GHz	Fig.64	P
	157	30 MHz ~1 GHz	Fig.65	P
		1 GHz ~ 3 GHz	Fig.66	P
		3 GHz ~ 6 GHz	Fig.67	P
		6 GHz ~ 18 GHz	Fig.68	P
		18 GHz ~ 26.5 GHz	Fig.69	P
	165	26.5 GHz ~ 40 GHz	Fig.70	P
		30 MHz ~1 GHz	Fig.71	P

		1 GHz ~ 3 GHz	Fig.72	P
		3 GHz ~ 6 GHz	Fig.73	P
		6 GHz ~ 18 GHz	Fig.74	P
		18 GHz ~ 26.5 GHz	Fig.75	P
		26.5 GHz ~ 40 GHz	Fig.76	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	Fig.77	P
		1 GHz ~ 3 GHz	Fig.78	P
		3 GHz ~ 6 GHz	Fig.79	P
		6 GHz ~ 18 GHz	Fig.80	P
		18 GHz ~ 26.5 GHz	Fig.81	P
	159	30 MHz ~1 GHz	Fig.82	P
		1 GHz ~ 3 GHz	Fig.83	P
		3 GHz ~ 6 GHz	Fig.84	P
		6 GHz ~ 18 GHz	Fig.85	P
		18 GHz ~ 26.5 GHz	Fig.86	P
/	All channels	26.5 GHz ~ 40 GHz	Fig.87	P

Conclusion: PASS

Test graphs as below:

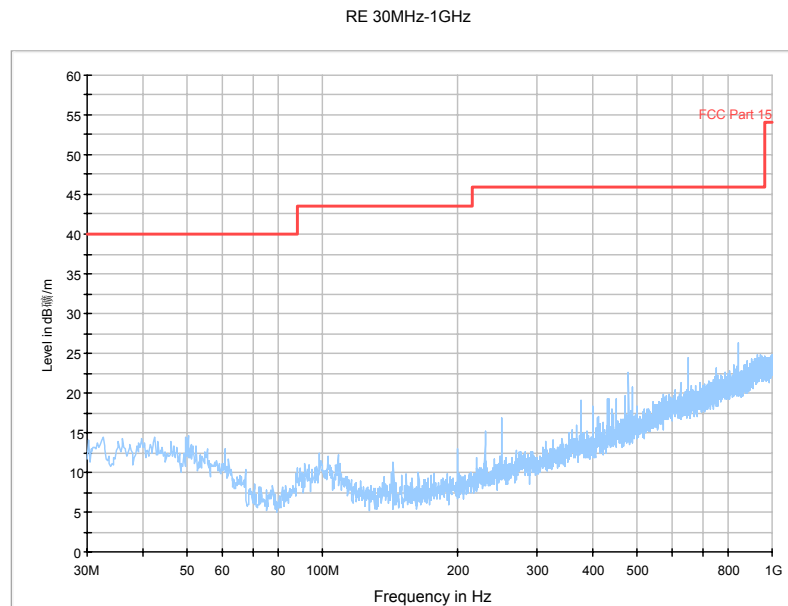


Fig. 41 Radiated Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

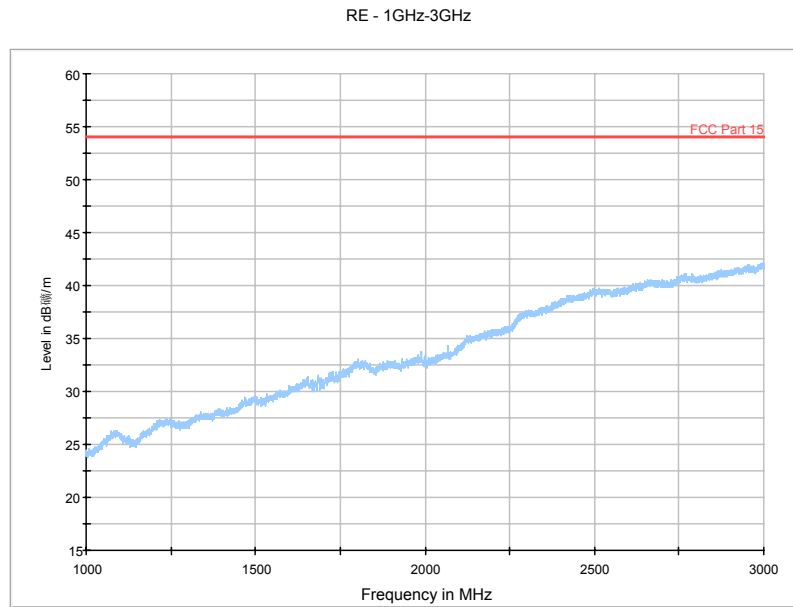


Fig. 42 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-3 GHz)

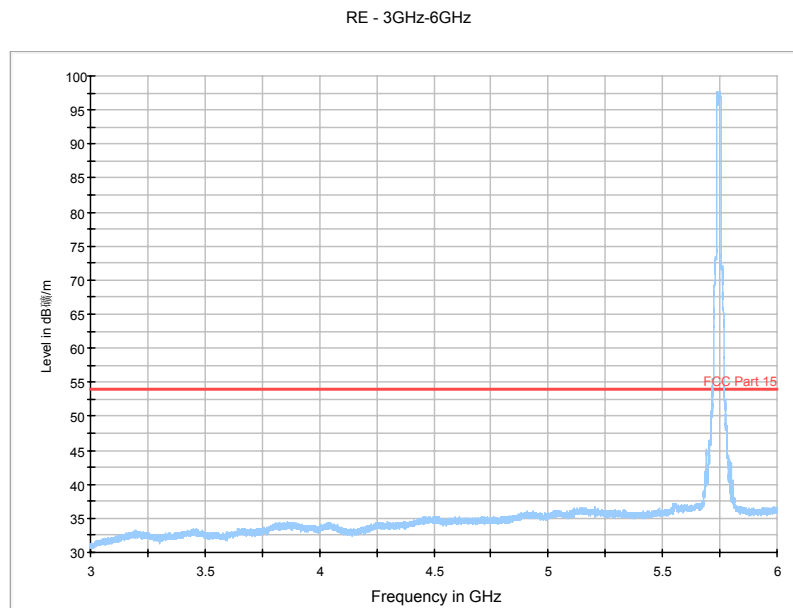


Fig. 43 Radiated Spurious Emission (802.11a, Ch149, 3 GHz-6 GHz)

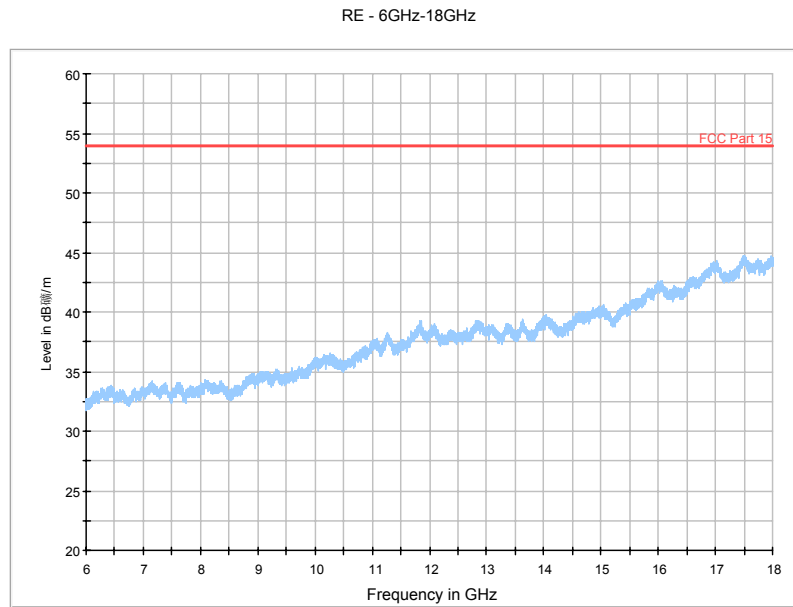


Fig. 44 Radiated Spurious Emission (802.11a, Ch149, 6 GHz-18 GHz)

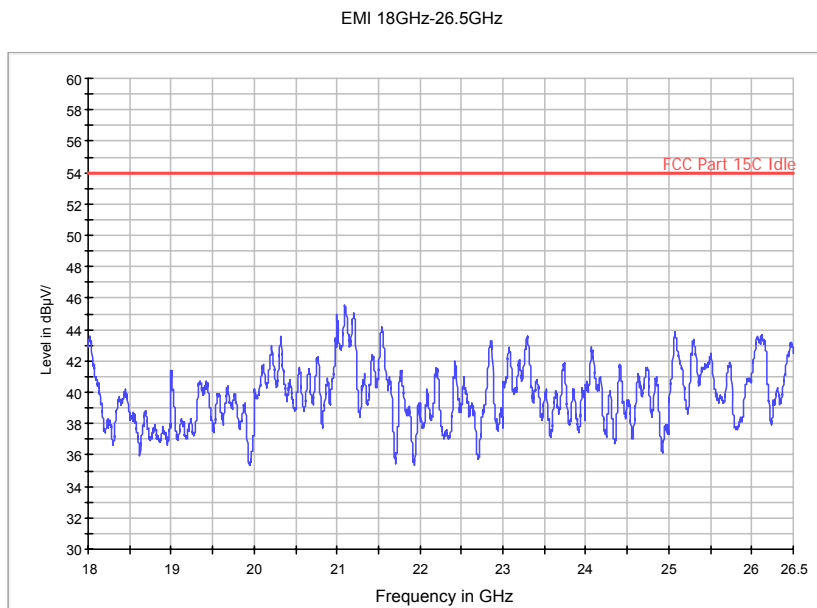


Fig. 45 Radiated Spurious Emission (802.11a, Ch149, 18 GHz-26.5 GHz)

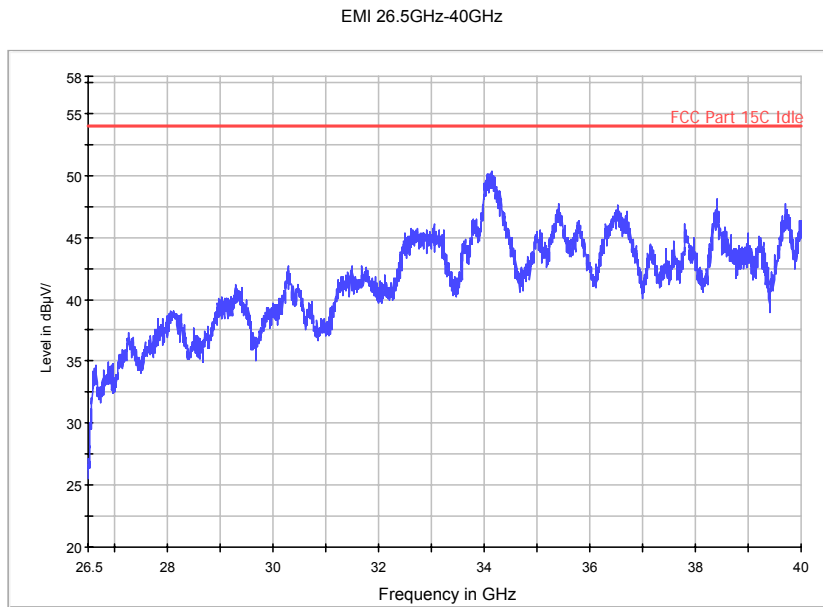


Fig. 46 Radiated Spurious Emission (802.11a, Ch149, 26.5 GHz-40 GHz)

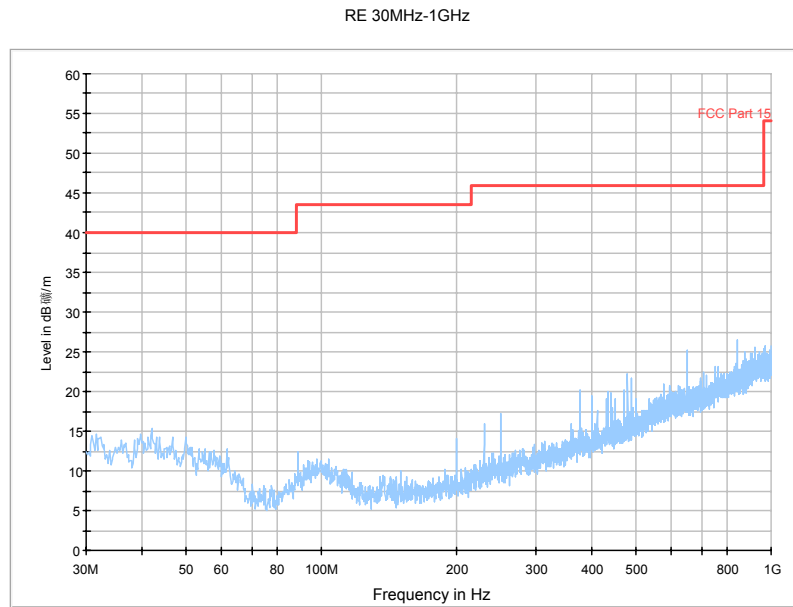


Fig. 47 Radiated Spurious Emission (802.11a, Ch157, 30 MHz-1 GHz)

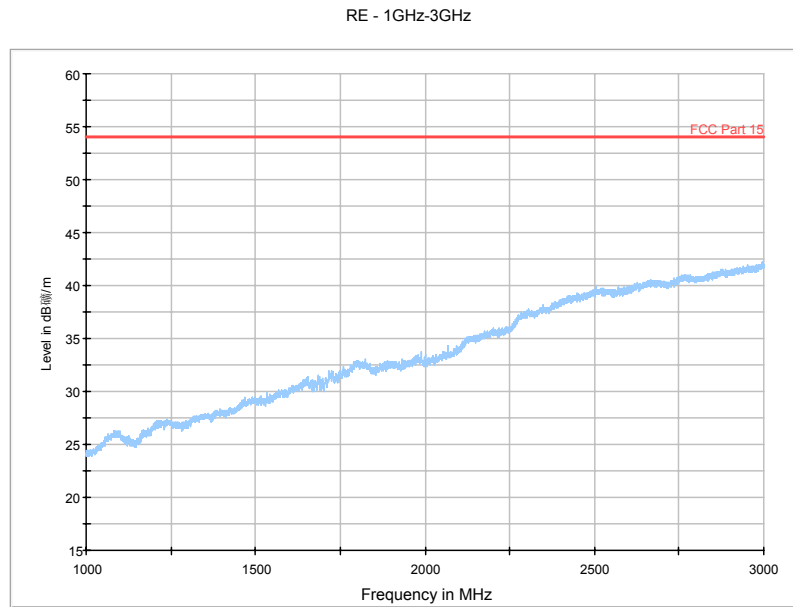


Fig. 48 Radiated Spurious Emission (802.11a, Ch157, 1 GHz-3 GHz)

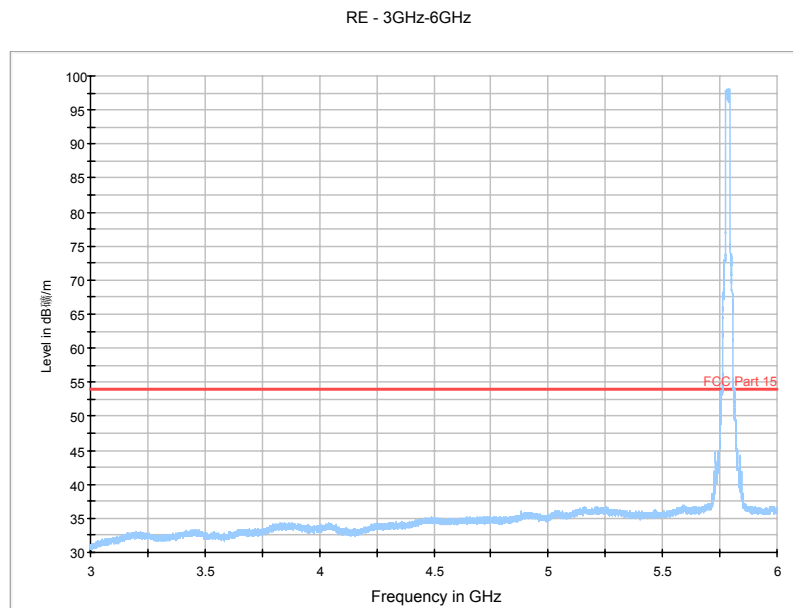


Fig. 49 Radiated Spurious Emission (802.11a, Ch157, 3 GHz-6 GHz)

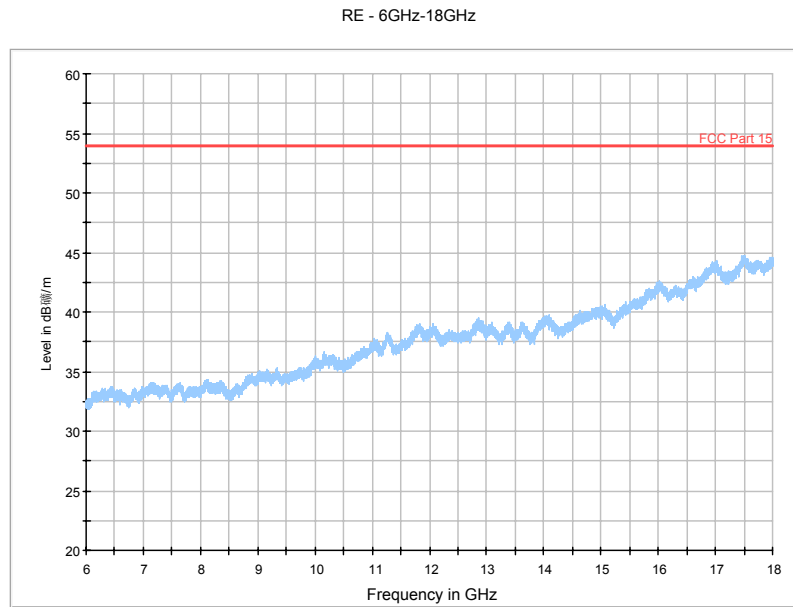


Fig. 50 Radiated Spurious Emission (802.11a, Ch157, 6 GHz-18 GHz)

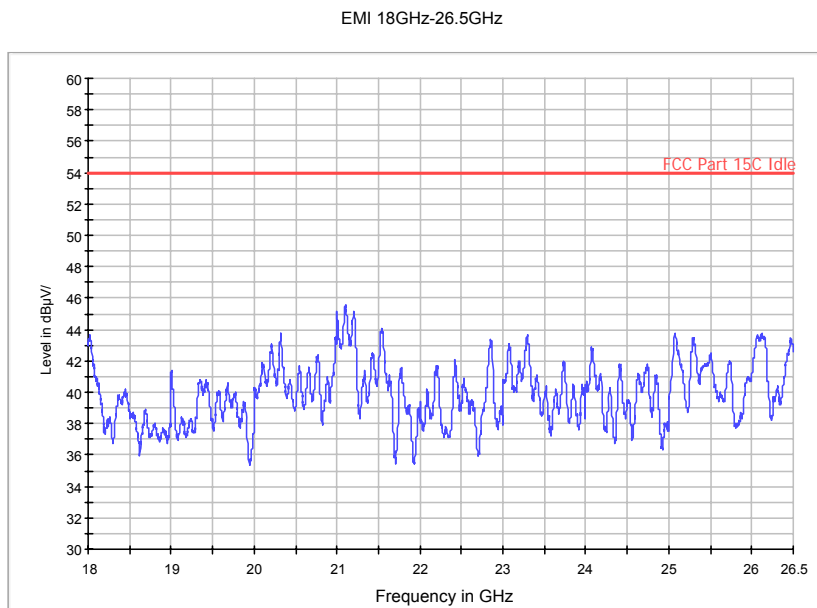


Fig. 51 Radiated Spurious Emission (802.11a, Ch157, 18 GHz-26.5 GHz)

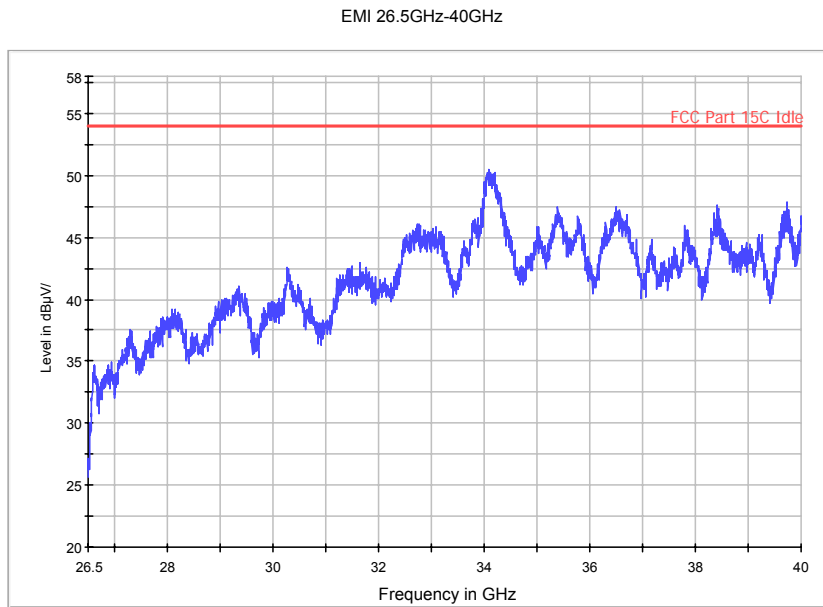


Fig. 52 Radiated Spurious Emission (802.11a, Ch165, 26.5 GHz-40 GHz)

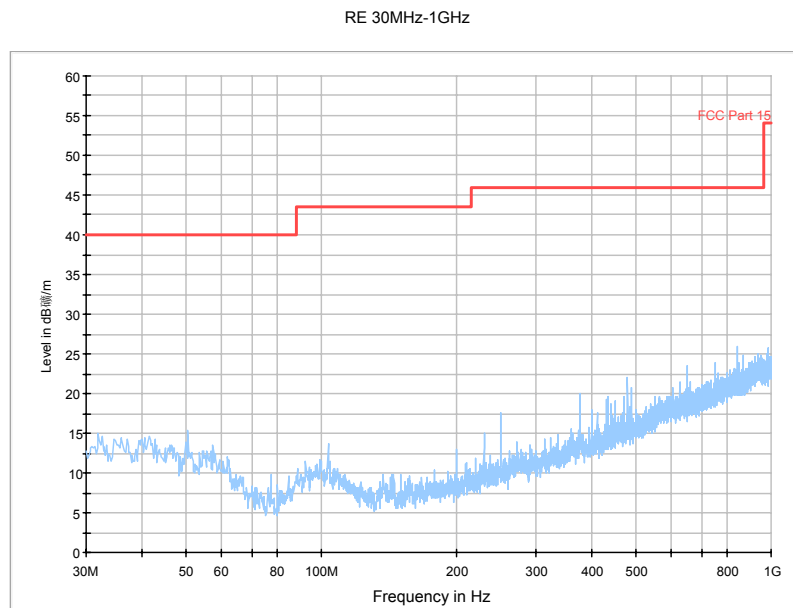


Fig. 53 Radiated Spurious Emission (802.11a, Ch165, 30 MHz-1 GHz)

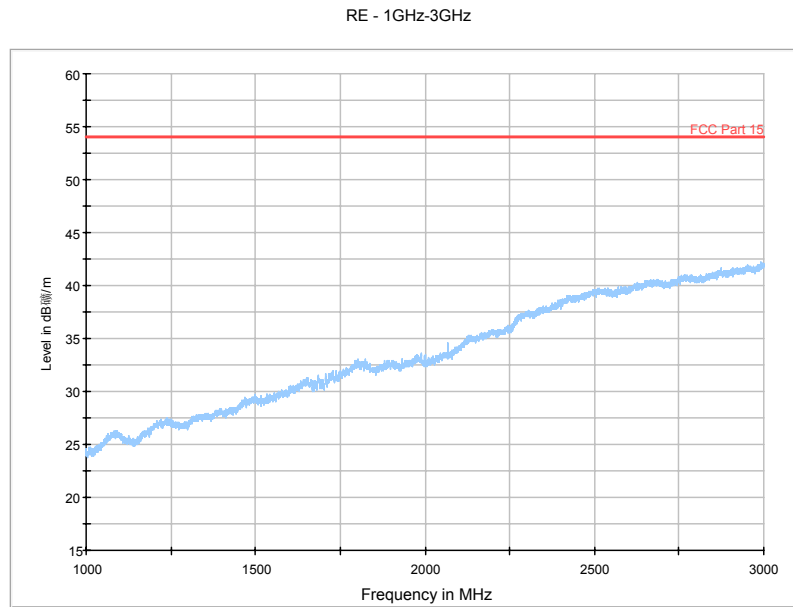


Fig. 54 Radiated Spurious Emission (802.11a, Ch165, 1 GHz-3 GHz)

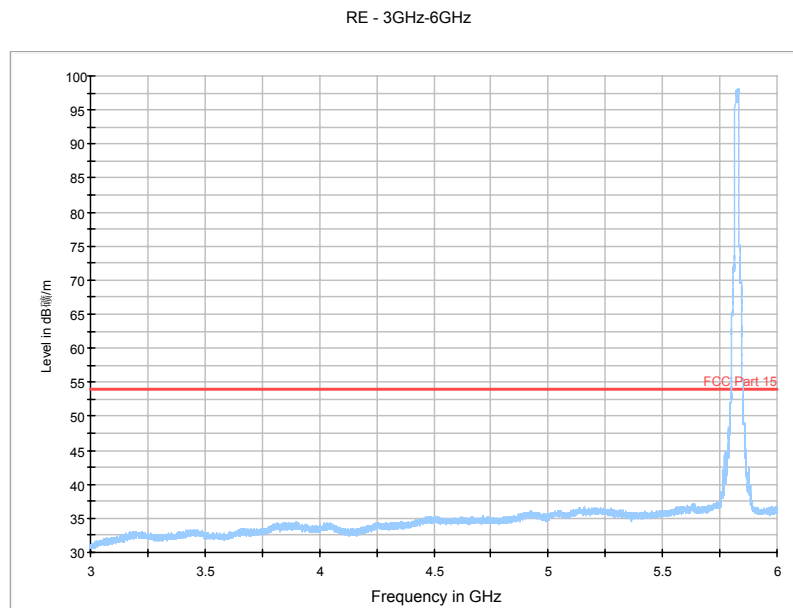


Fig. 55 Radiated Spurious Emission (802.11a, Ch165, 3 GHz-6 GHz)

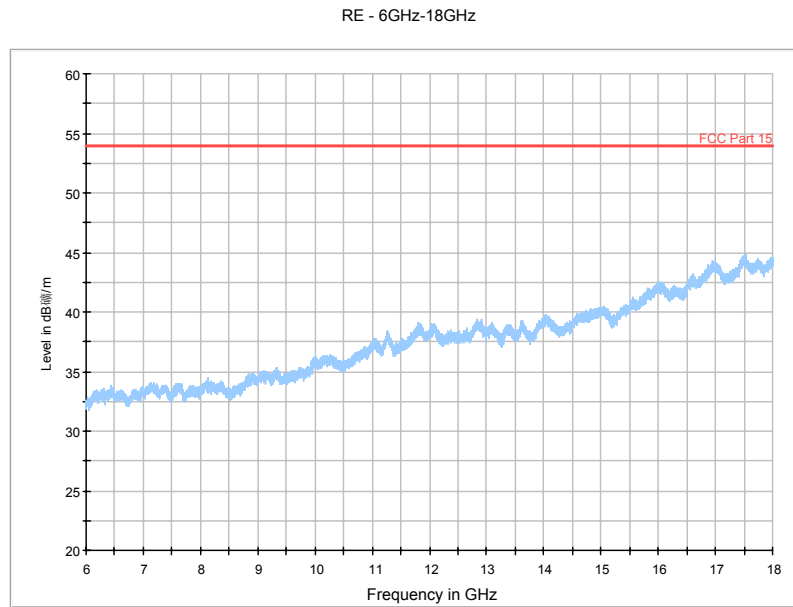


Fig. 56 Radiated Spurious Emission (802.11a, Ch165, 6 GHz-18 GHz)

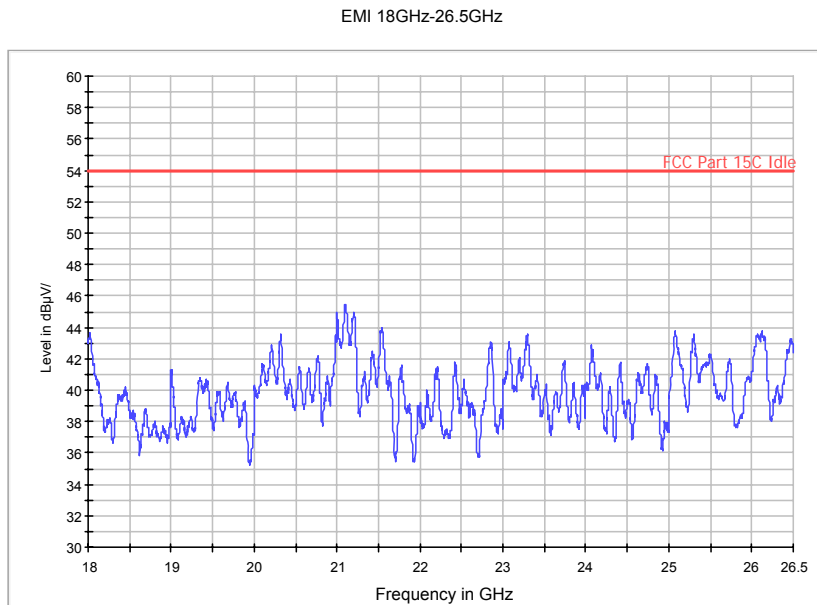


Fig. 57 Radiated Spurious Emission (802.11a, Ch165, 18 GHz-26.5 GHz)

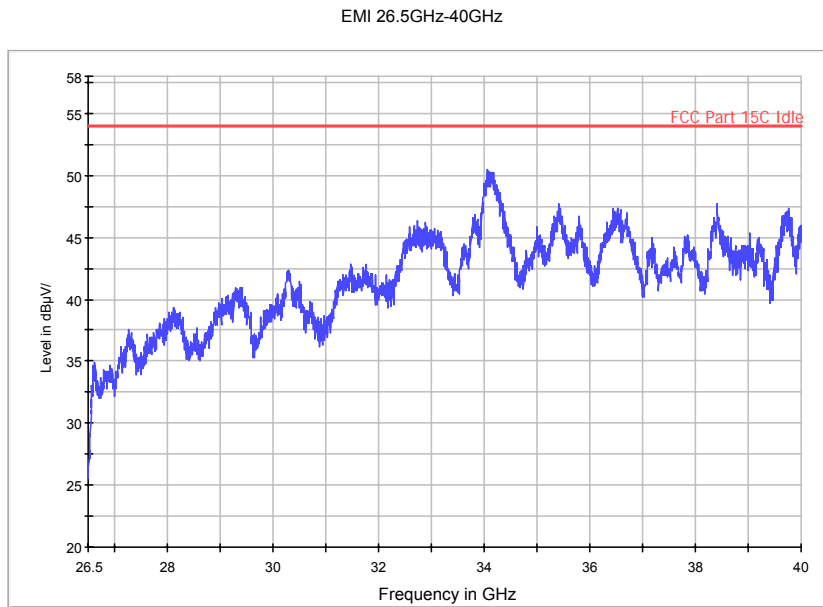


Fig. 58 Radiated Spurious Emission (802.11a, Ch165, 26.5 GHz-40 GHz)

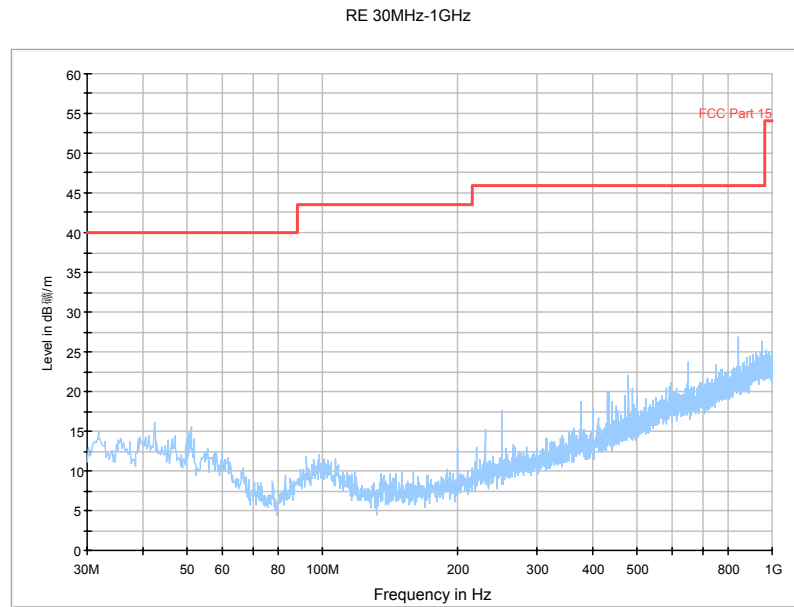


Fig. 59 Radiated Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)

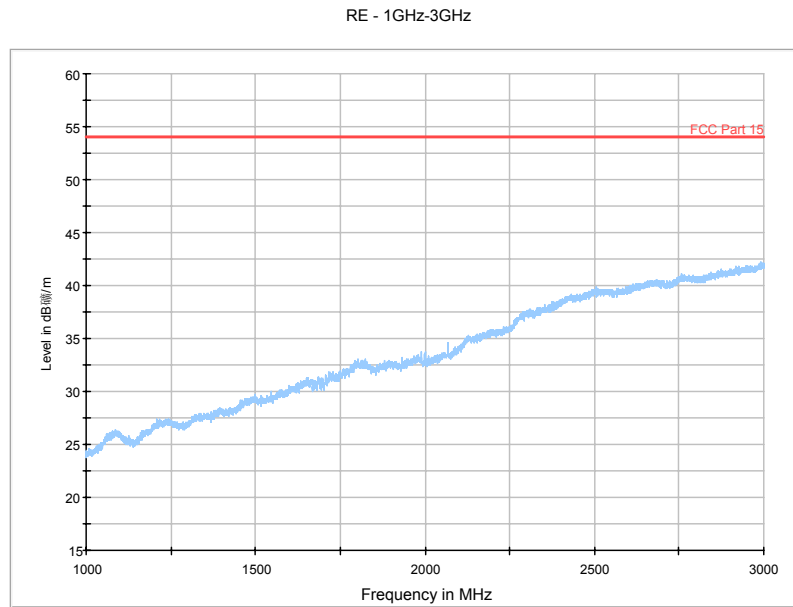


Fig. 60 Radiated Spurious Emission (802.11n-HT20, Ch149, 1 GHz-3 GHz)

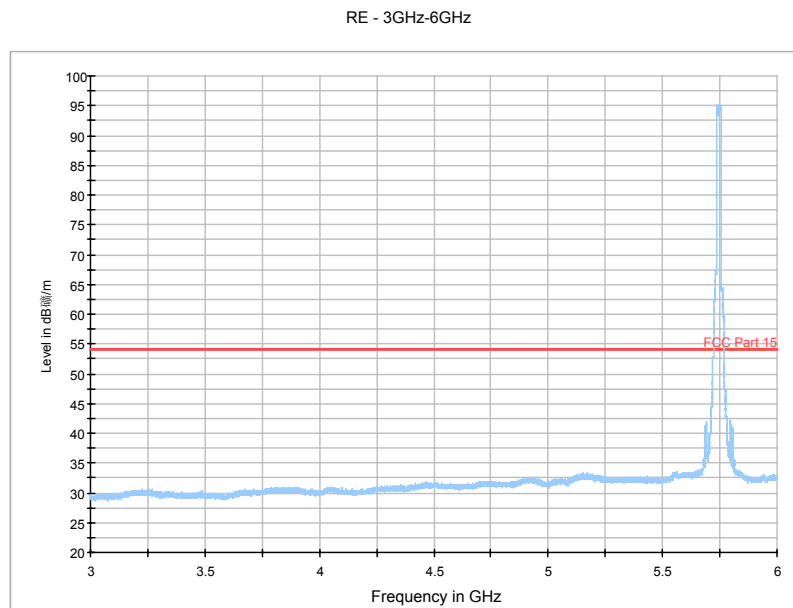


Fig. 61 Radiated Spurious Emission (802.11n-HT20, Ch149, 3 GHz-6 GHz)

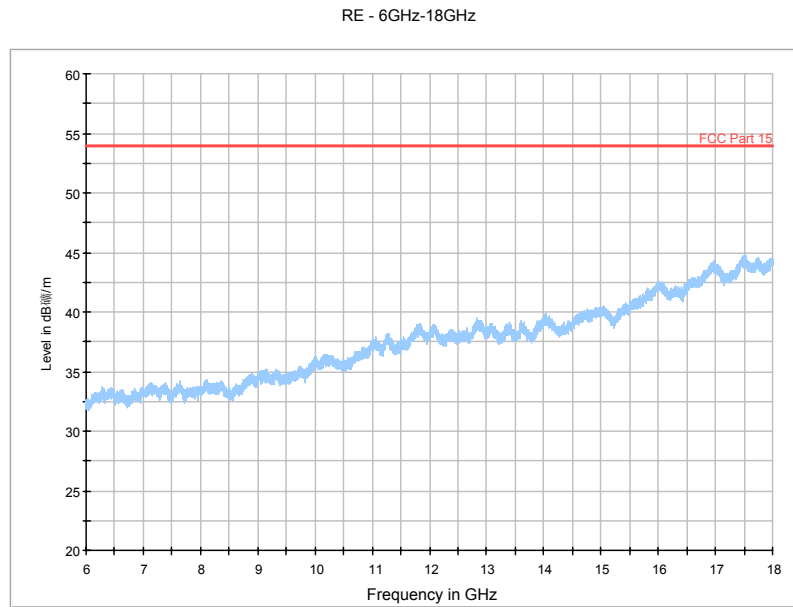


Fig. 62 Radiated Spurious Emission (802.11n-HT20, Ch149, 6 GHz-18 GHz)

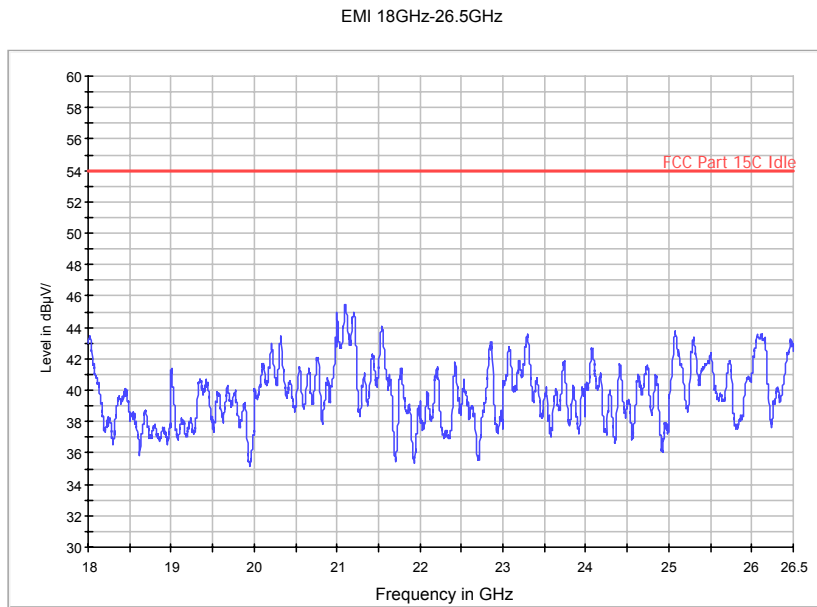


Fig. 63 Radiated Spurious Emission (802.11n-HT20, Ch149, 18 GHz-26.5 GHz)

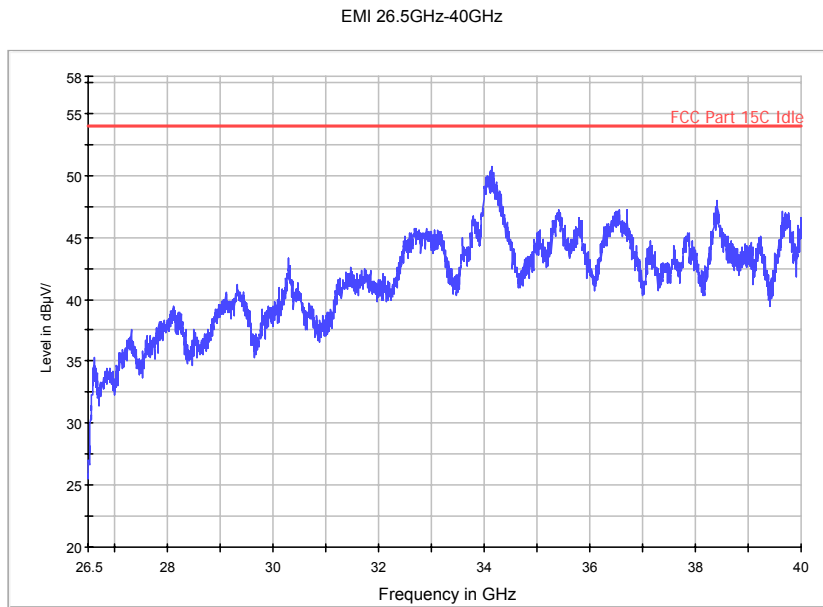


Fig. 64 Radiated Spurious Emission (802.11n-HT20, Ch149, 26.5 GHz-40 GHz)

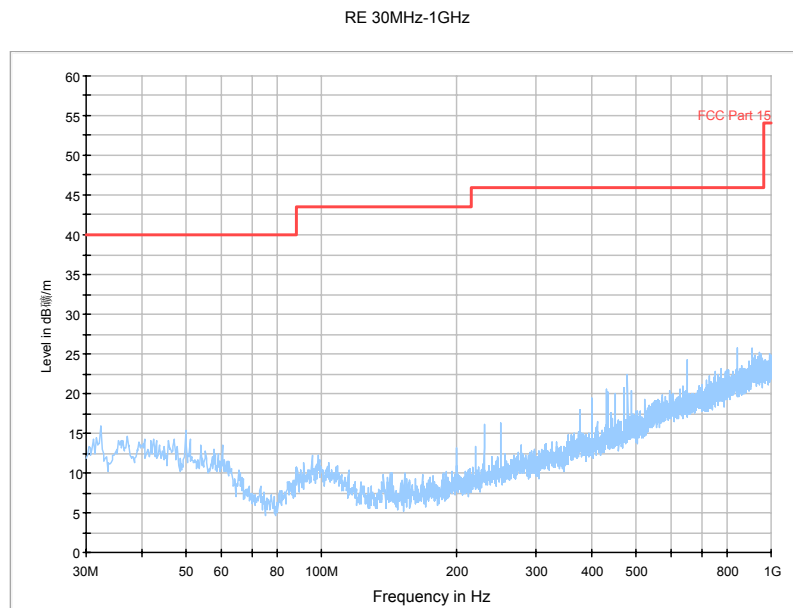


Fig. 65 Radiated Spurious Emission (802.11n-HT20, Ch157, 30 MHz-1 GHz)

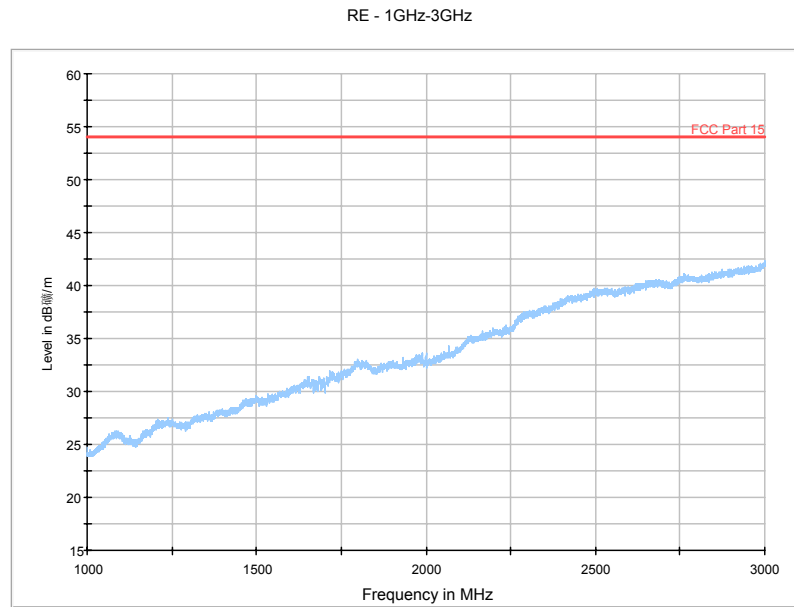


Fig. 66 Radiated Spurious Emission (802.11n-HT20, Ch157, 1 GHz-3 GHz)

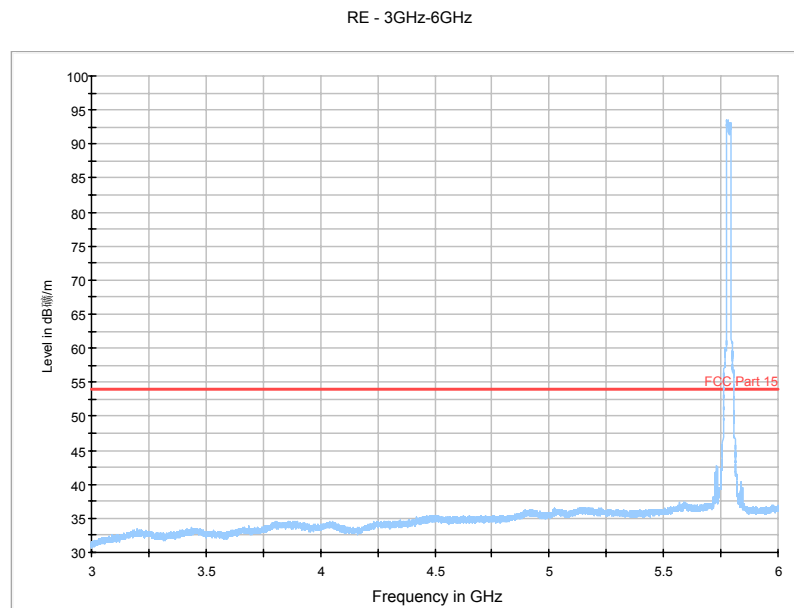


Fig. 67 Radiated Spurious Emission (802.11n-HT20, Ch157, 3 GHz-6 GHz)

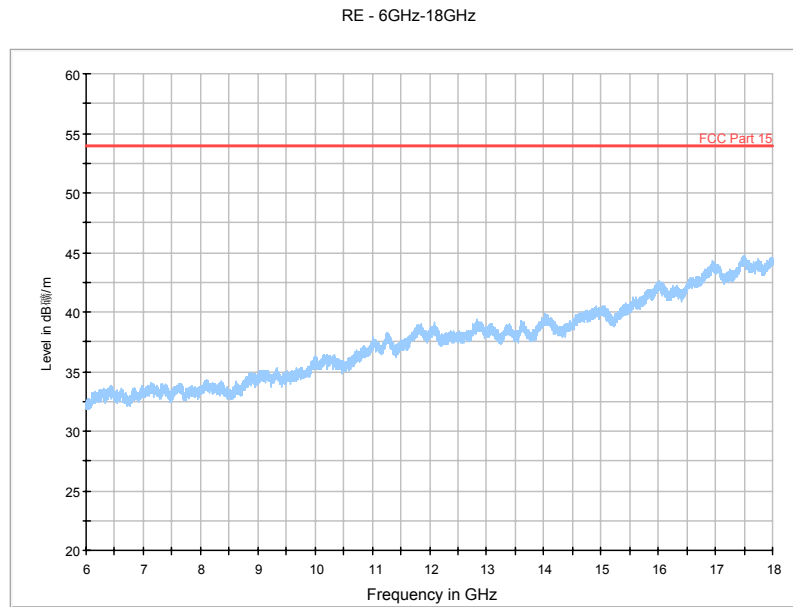


Fig. 68 Radiated Spurious Emission (802.11n-HT20, Ch157, 6 GHz-18 GHz)

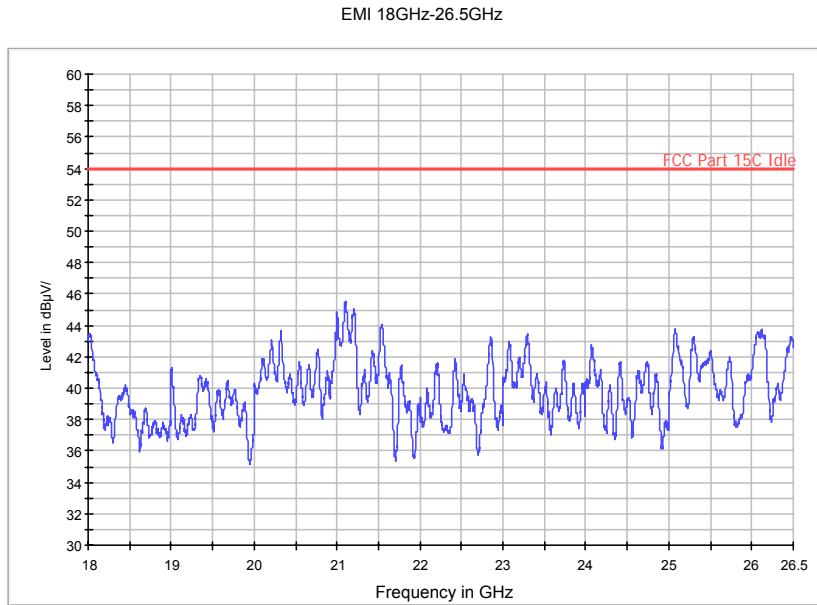


Fig. 69 Radiated Spurious Emission (802.11n-HT20, Ch157, 18 GHz-26.5 GHz)

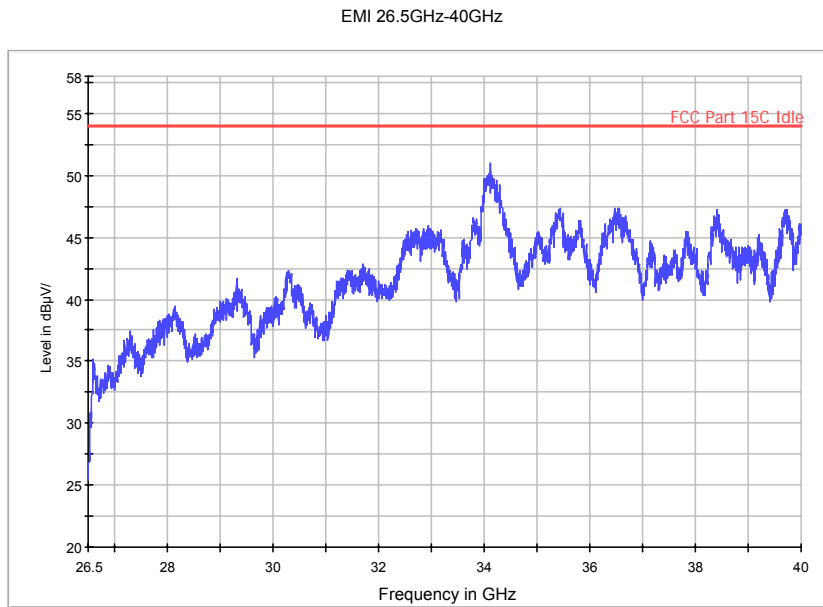


Fig. 70 Radiated Spurious Emission (802.11n-HT20, Ch157, 26.5 GHz-40 GHz)

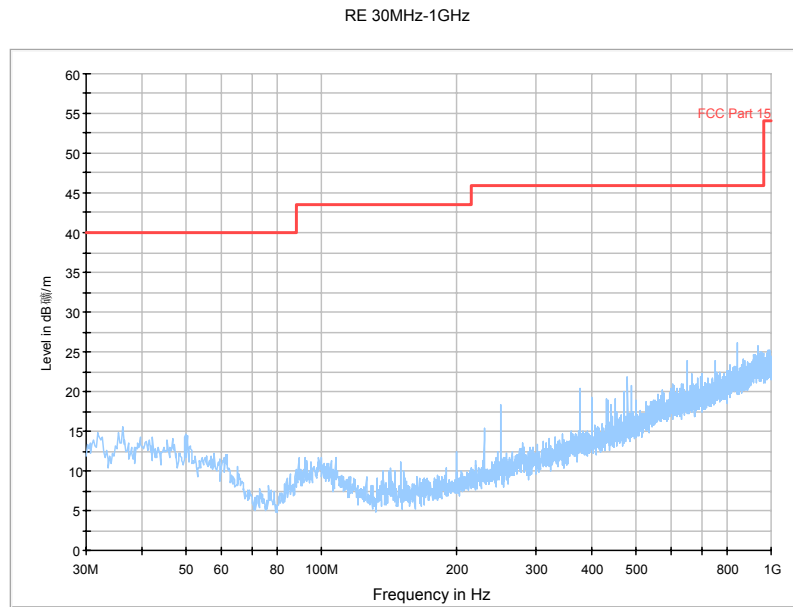


Fig. 71 Radiated Spurious Emission (802.11n-HT20, Ch165, 30 MHz-1 GHz)

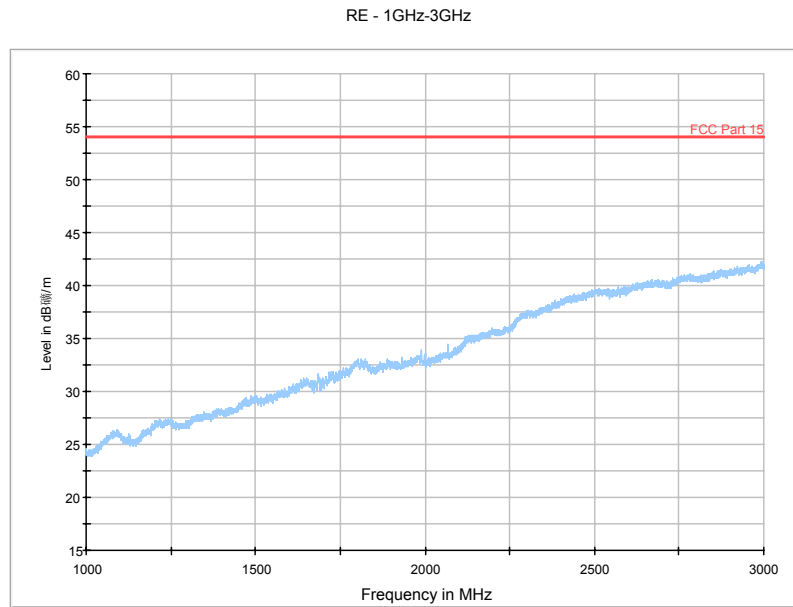


Fig. 72 Radiated Spurious Emission (802.11n-HT20, Ch165, 1 GHz-3 GHz)

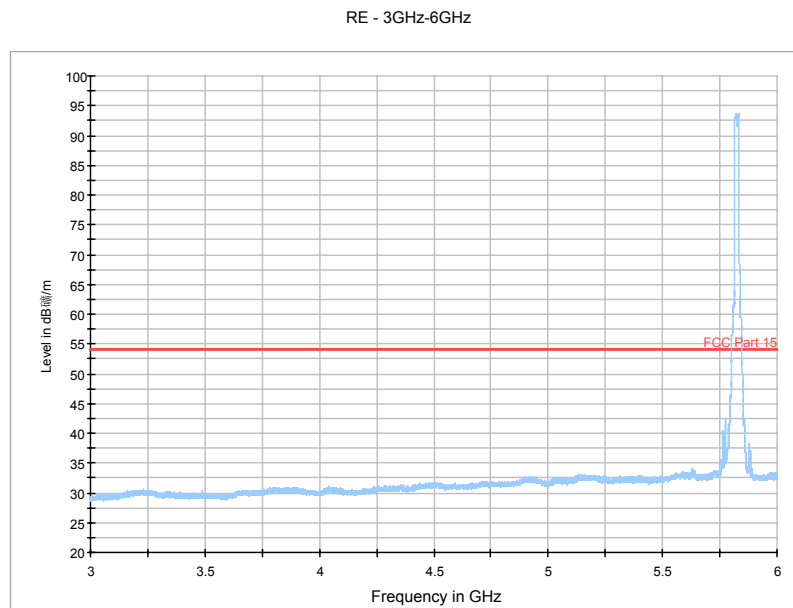


Fig. 73 Radiated Spurious Emission (802.11n-HT20, Ch165, 3 GHz-6 GHz)

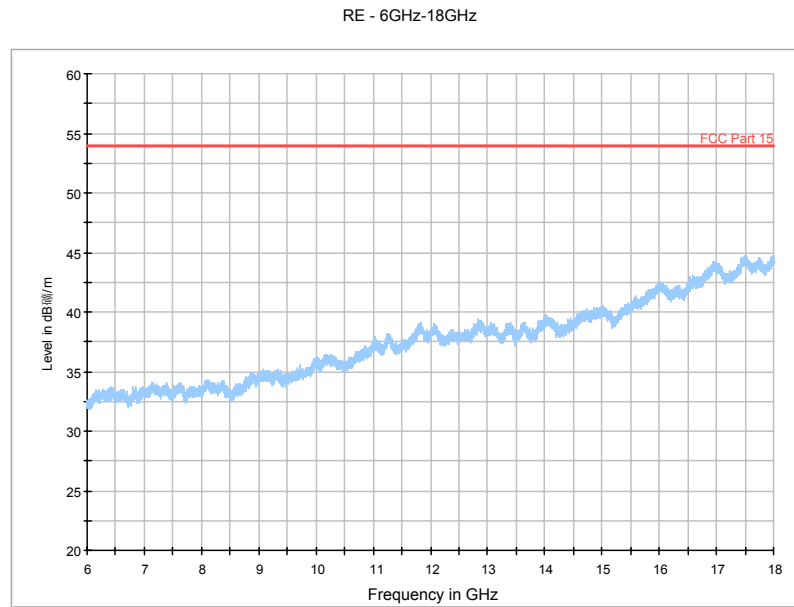


Fig. 74 Radiated Spurious Emission (802.11n-HT20, Ch165, 6 GHz-18 GHz)

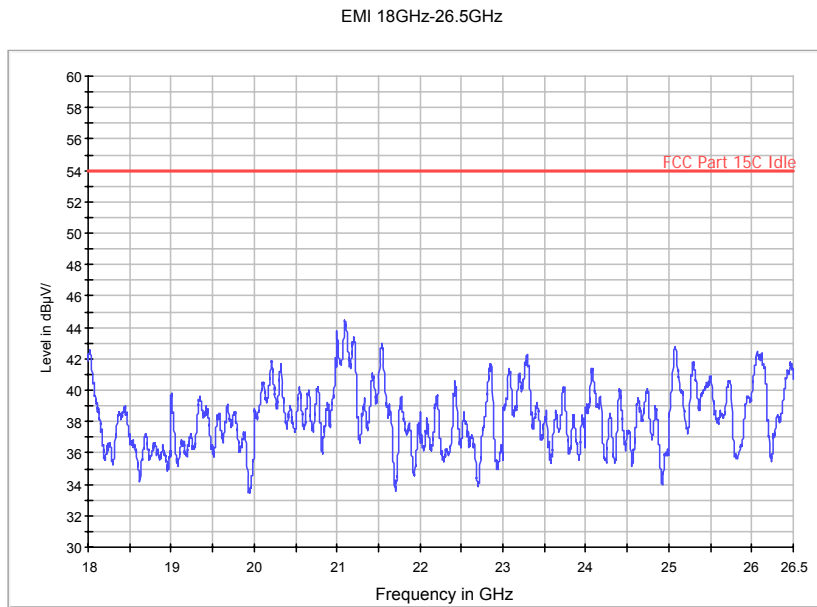


Fig. 75 Radiated Spurious Emission (802.11n-HT20, Ch165, 18 GHz-26.5 GHz)

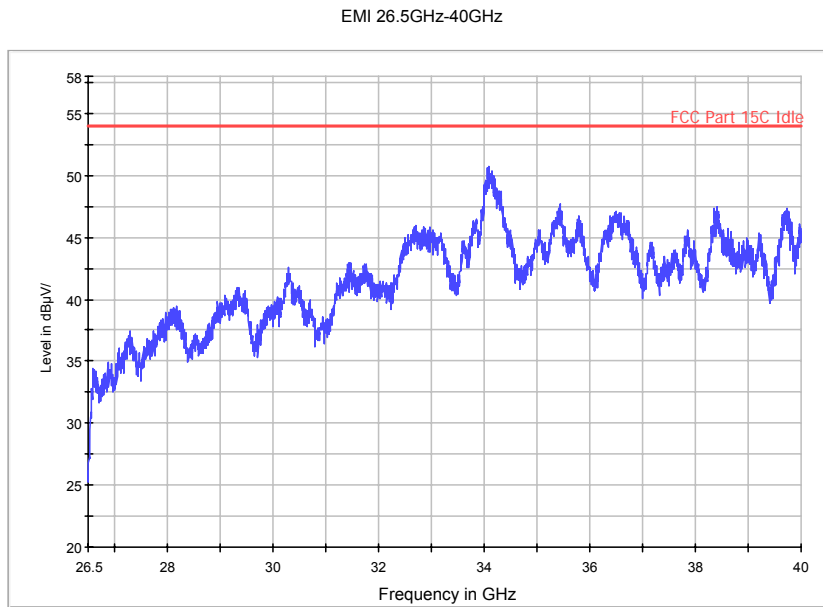


Fig. 76 Radiated Spurious Emission (802.11n-HT20, Ch165, 26.5 GHz-40 GHz)

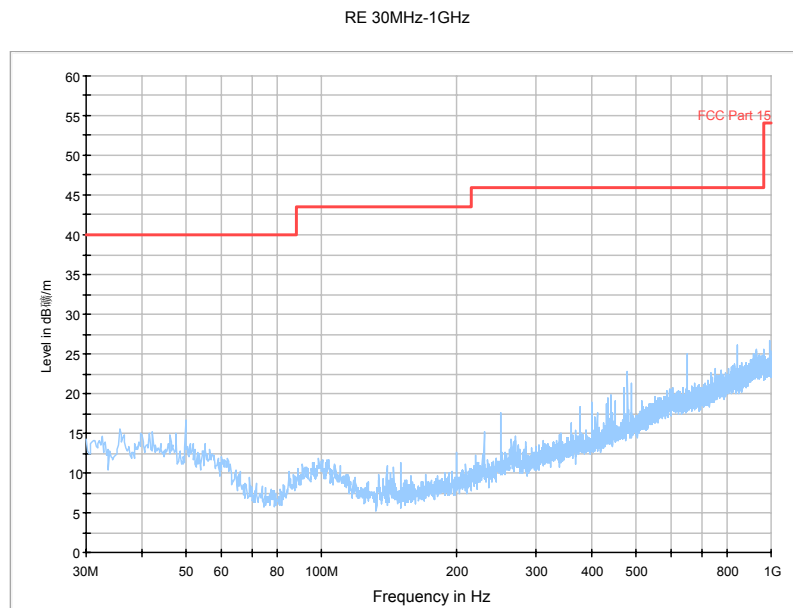


Fig. 77 Radiated Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

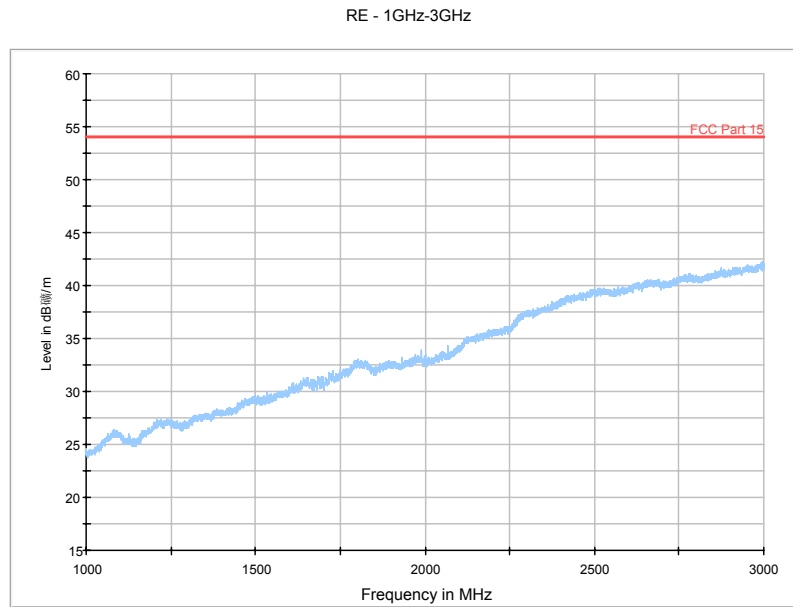


Fig. 78 Radiated Spurious Emission (802.11n-HT40, Ch151, 1 GHz-3 GHz)

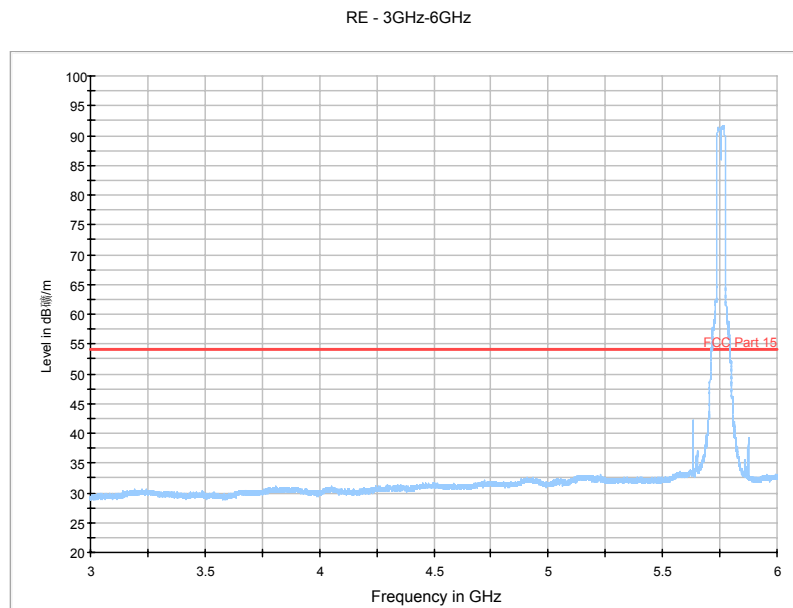


Fig. 79 Radiated Spurious Emission (802.11n-HT40, Ch151, 3 GHz-6 GHz)

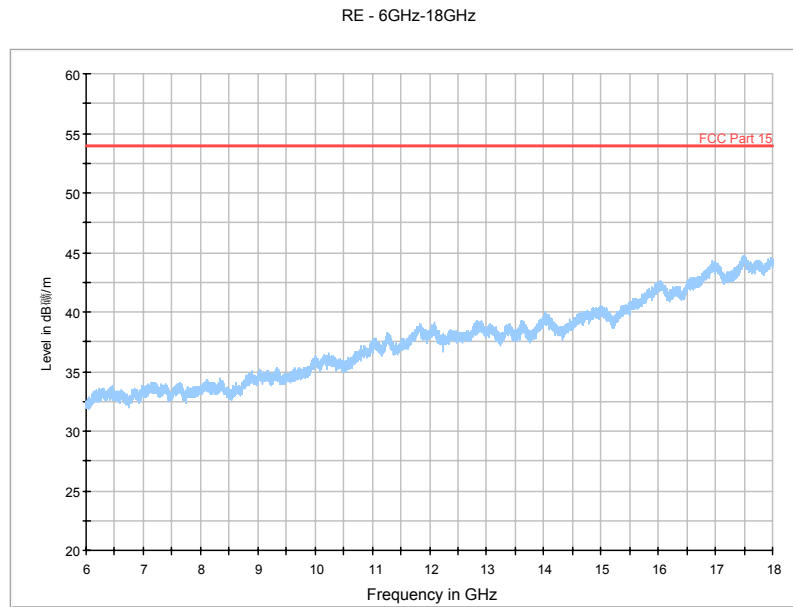


Fig. 80 Radiated Spurious Emission (802.11n-HT40, Ch151, 6 GHz-18 GHz)

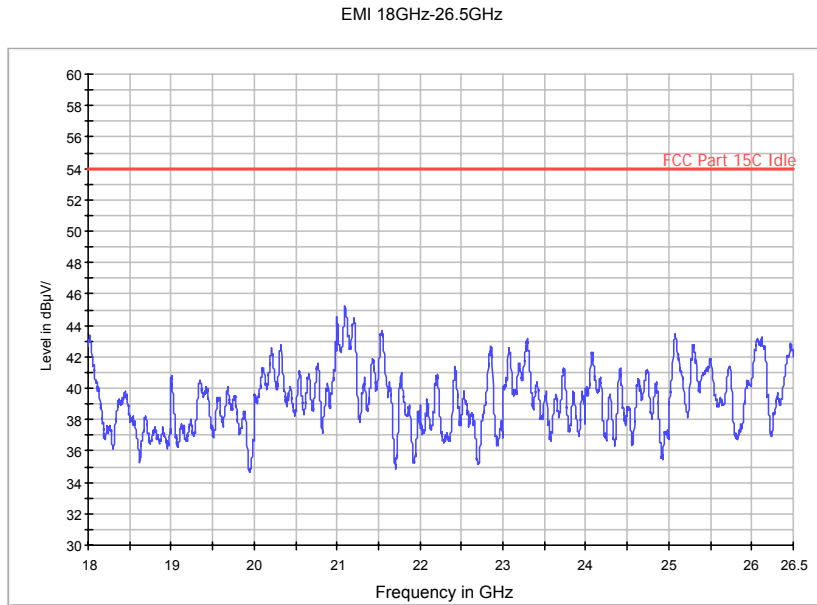


Fig. 81 Radiated Spurious Emission (802.11n-HT40, Ch151, 18 GHz-26.5 GHz)

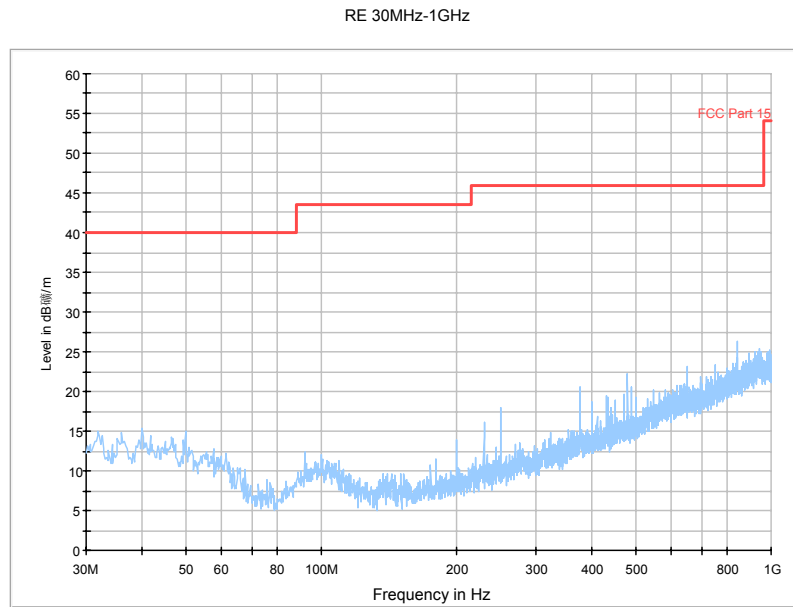


Fig. 82 Radiated Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)

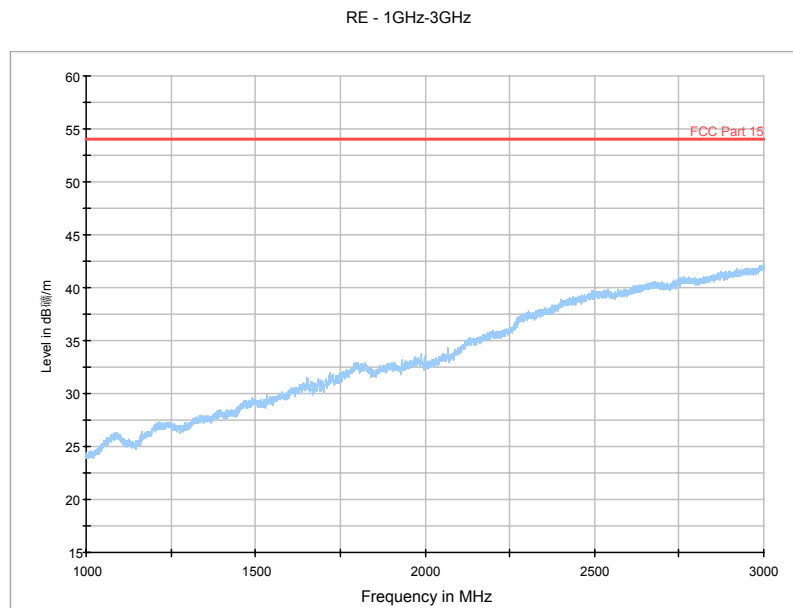


Fig. 83 Radiated Spurious Emission (802.11n-HT40, Ch159, 1 GHz-3 GHz)

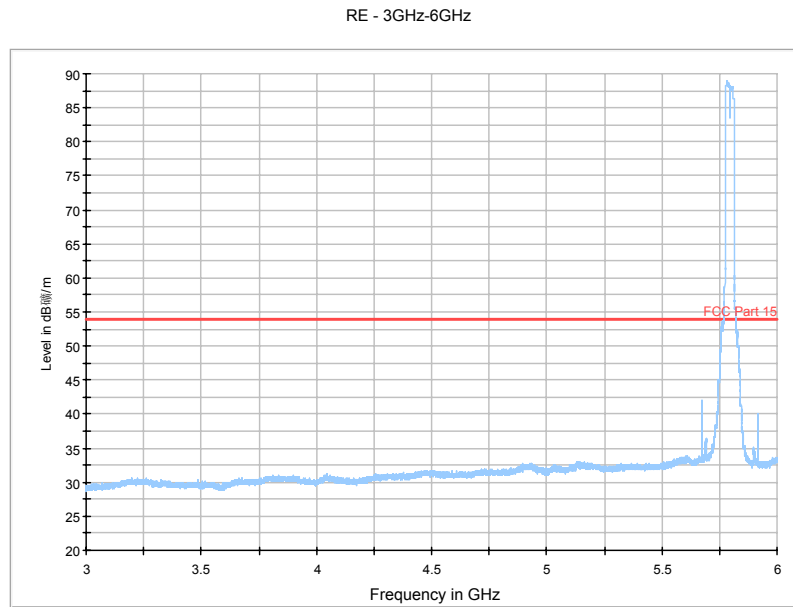


Fig. 84 Radiated Spurious Emission (802.11n-HT40, Ch159, 3 GHz-6 GHz)

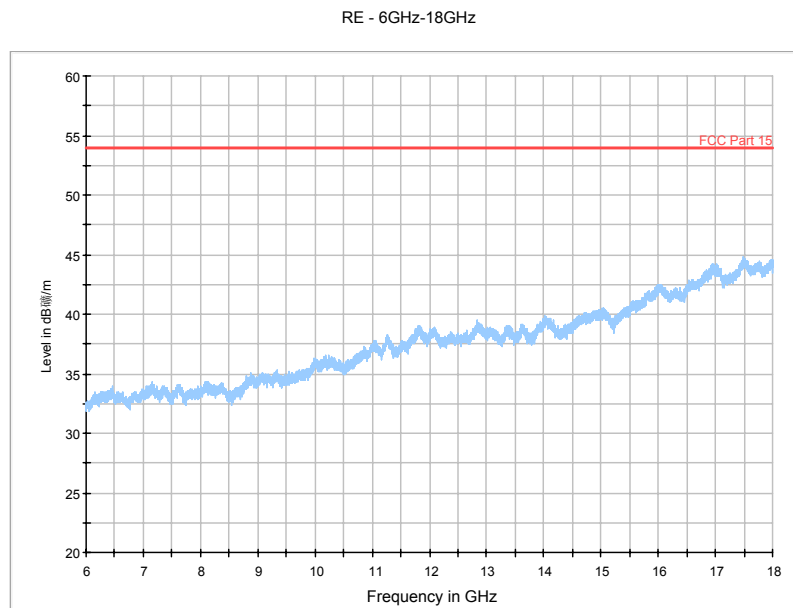


Fig. 85 Radiated Spurious Emission (802.11n-HT40, Ch159, 6 GHz-18 GHz)

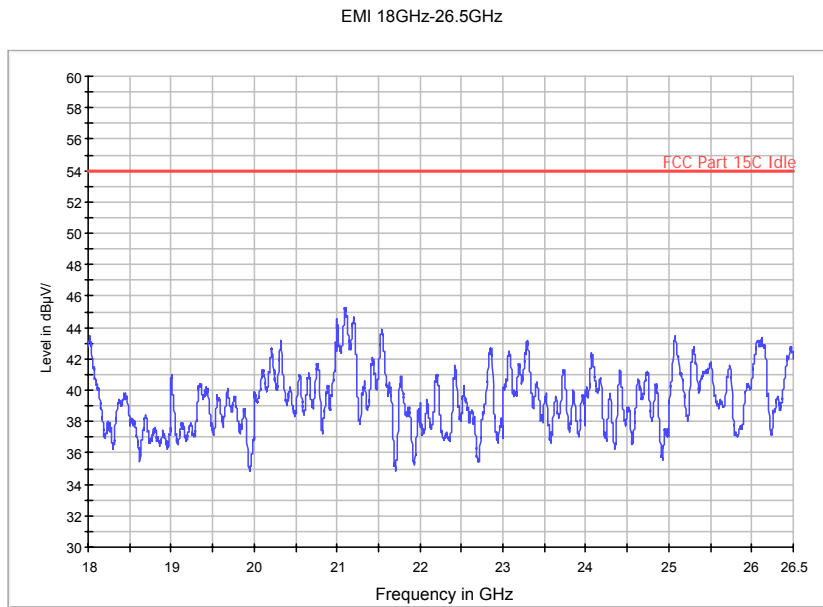


Fig. 86 Radiated Spurious Emission (802.11n-HT40, Ch159, 18 GHz-26.5 GHz)

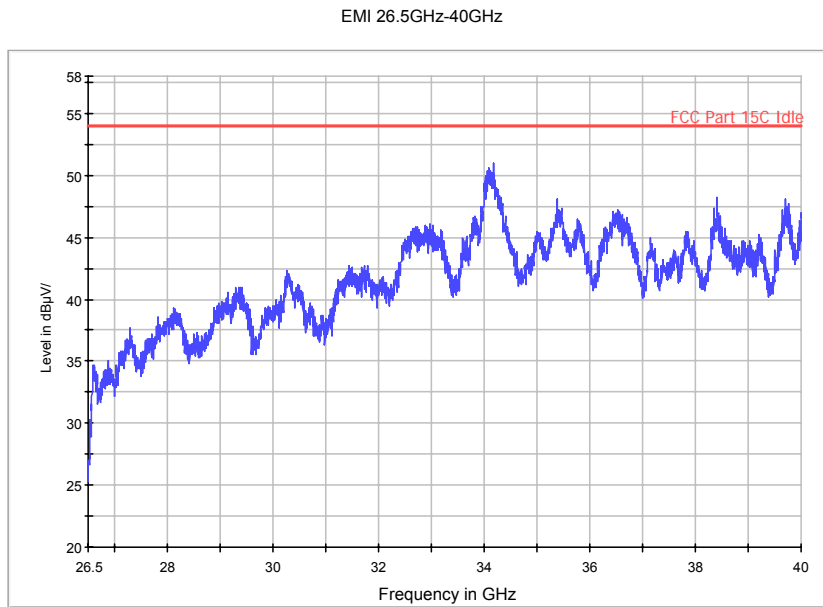


Fig. 87 Radiated emission: 802.11n, 26.5 GHz - 40 GHz

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

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. 88	Fig. 89	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.88	Fig.89	P
0.5 to 5	46			
5 to 30	50			

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

The measurement is made according to ANSI C63.4 and KDB558074

Conclusion: PASS

Test graphs as below:

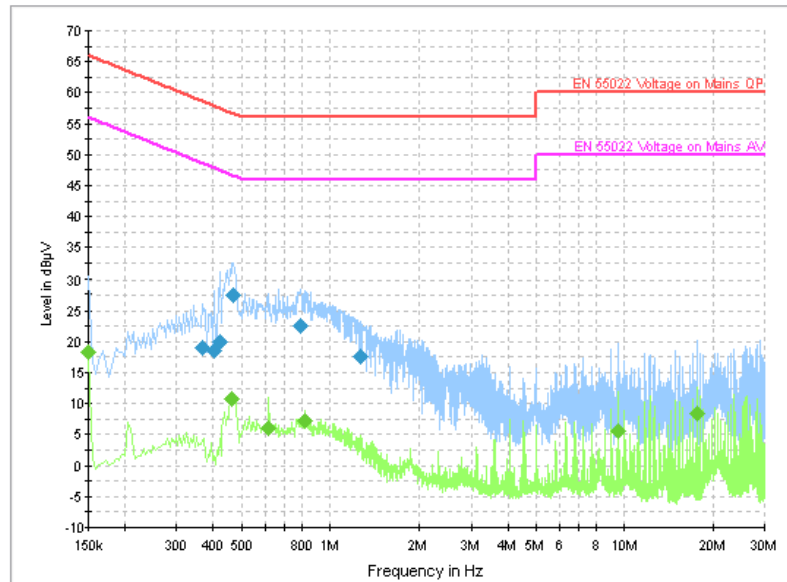


Fig. 88 AC Powerline Conducted Emission-802.11a mode

Final Result 1

Frequency (MHz)	Limit (dBµV)	PE	Line	Transd (dB)	Margin (dB)	Limit (dBµV)
0.366000	19.0	GND	L1	10.0	39.6	58.6
0.402000	18.5	GND	L1	10.0	39.4	57.8
0.420000	19.9	GND	L1	10.0	37.5	57.4
0.469500	27.4	GND	L1	10.0	29.1	56.5
0.798000	22.7	GND	L1	10.0	33.3	56.0
1.275000	17.7	GND	L1	10.0	38.3	56.0

Final Result 2

Frequency (MHz)	Limit (dBµV)	PE	Line	Transd (dB)	Margin (dB)	Limit (dBµV)
0.150000	18.3	GND	L1	10.0	37.7	56.0
0.465000	10.9	GND	L1	10.0	35.7	46.6
0.618000	6.1	GND	L1	10.0	39.9	46.0
0.825000	7.1	GND	L1	10.0	38.9	46.0
9.460500	5.6	GND	L1	9.9	44.4	50.0
17.587500	8.4	GND	L1	9.7	41.6	50.0

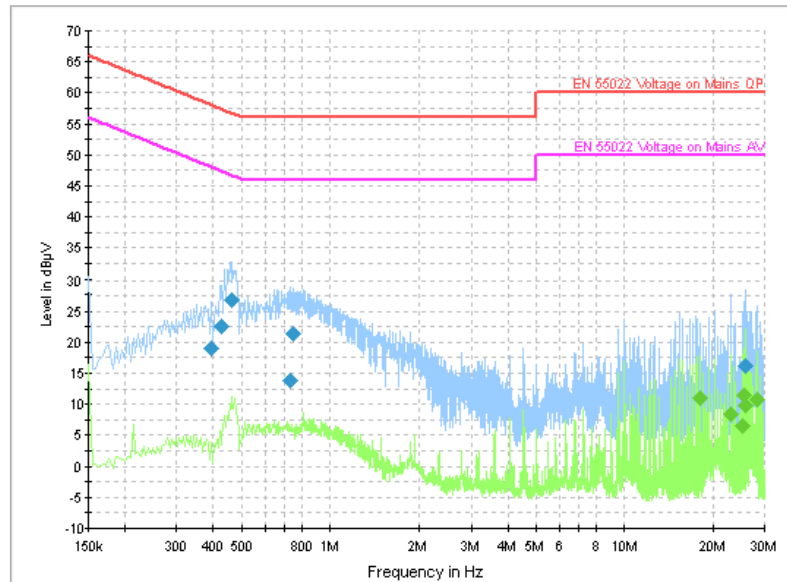


Fig. 89 AC Powerline Conducted Emission-Idle

Final Result1

Frequency (MHz)	Limit (dBµV)	PE	Line	Transd (dB)	Margin (dB)	Limit (dBµV)
0.393000	19.0	GND	L1	10.0	39.0	58.0
0.429000	22.6	GND	L1	10.0	34.7	57.3
0.465000	26.8	GND	L1	10.0	29.8	56.6
0.730500	13.9	GND	N	10.0	42.1	56.0
0.748500	21.3	GND	L1	10.0	34.7	56.0
25.759500	16.2	GND	L1	9.4	43.8	60.0

Final Result2

Frequency (MHz)	Limit (dBµV)	PE	Line	Transd (dB)	Margin (dB)	Limit (dBµV)
18.046500	11.0	GND	L1	9.7	39.0	50.0
22.974000	8.3	GND	L1	9.5	41.7	50.0
25.296000	6.6	GND	L1	9.4	43.4	50.0
25.642500	11.4	GND	L1	9.4	38.6	50.0
25.759500	9.8	GND	L1	9.4	40.2	50.0
28.428000	10.9	GND	L1	9.3	39.1	50.0

*** END OF REPORT BODY ***