





Full

TEST REPORT

No. I18D00212-SRD07

For

Client: Hisense International Co., Ltd.

Production: Mobile Phone

Model Name: KS907

Brand Name: Hisense

FCC ID: 2ADOBKS907

Hardware Version: V1.00

Software Version: Hisense_F17_4G_40_S02_20181018

Issued date: 2018-12-13

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 ECIT Shanghai.

The standards accredited by A2LA except KDB 789033.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

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Revision Version

Report No.: I18D00212-SRD07

Report Number	Revision	Date	Memo
I18D00212-SRD07	00	2018-12-04	Initial creation of test report
I18D00212-SRD07	01	2018-12-11	Second creation of test report
I18D00212-SRD07	02	2018-12-13	Third creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District,
	Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301
FCC registration No	958356

1.2. Testing Environment

Normal Temperature:	15-35℃
Extreme Temperature:	-30/+50℃
Relative Humidity:	20-75%

1.3. Project data

Project Leader:	Xu Yuting
Testing Start Date:	2018-11-01
Testing End Date:	2018-11-29

1.4. Signature

Yang Dejun

(Prepared this test report)

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(Reviewed this test report)

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Zheng Zhongbin

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Hisense International Co., Ltd.

Address: Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China

Telephone: /
Postcode: /

2.2. Manufacturer Information

Company Name: Hisense Communications Co., Ltd.

Address: 218 Qianwangang Road, Qingdao Economic & Technological

Development Zone, Qingdao, China

Telephone: /
Postcode: /

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Mobile Phone
Model name	KS907
GSM Frequency Band	GSM850/GSM900/GSM1900
UMTS Frequency Band	Band 1/2/5
CDMA Frequency Band	N/A
LTE Frequency Band	Band 2/4/5/7/28
Additional Communication	BT/BLE/2.4G WLAN 802.11 b/g/n20/5G WLAN 802.11 a/n20
Function	
WLAN Frequency Range(5.8G)	ISM Bands: 5725MHz-5850MHz
WLAN type of modulation	OFDM
Extreme Temperature	-30/+50°C
Nominal Voltage	3.8V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.5V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	Model Name	SN or IMEI	HW Version	SW Version	Date o	of receipt
N29	KS907	8688060301	V1.00	Hisense_F17_4G_40_S 2018-1		2018-10
		89949		02_20181018 -29		-29
N24	KS907	8688060301	V1.00	Hisense_F17_4G_40_S 2018-10		2018-10
		89576		02_20181018 -29		
N34	KS907	1	V1.00	Hisense_F17_4G_40_S 2018-11		2018-11
				02_20181018		-26

^{*}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	SN
AE1	RF cable	

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

3.4. The difference between two models

Main supply is same as Secondary supply, the two samples are only different on the supplier of TP/LCM/Front and Real CAM/Flash.

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4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version	
	FCC CFR 47, Part 15, Subpart C:		
	15.205 Restricted bands of operation;		
FCC Part15	15.209 Radiated emission limits, general requirements;	2017/10/1	
	Subpart E—Unlicensed National Information Infrastructure		
	Devices		
	Methods of Measurement of Radio-Noise Emissions from		
ANSI 63.10 Low-Voltage Electrical and Electronic Equipment in the		2013	
Range of 9 kHz to 40 GHz			
UNII: KDB	Information Infrastructure (U-NII) Devices - Part 15,	2047	
789033	Subpart E	2017	

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5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

SUMMARY OF	Sub-clause of	Verdict
MEASUREMENT RESULTS	Part15E	verdict
Maximum Output Power	15.407	Р
Power Spectral Density	15.407	Р
Occupied 6dB Bandwidth	15.403	Р
Band edge compliance	15.407	Р
Transmitter Spurious Emission - Conducted	15.407	Р
Transmitter Spurious Emission - Radiated	15.407	Р
AC Powerline Conducted Emission	15.407	Р
Frequency Stability	15.407	NA
Automatically Discontinue Transmission	15.407	NA

Please refer to section 6 for detail.

Terms used in Verdict column

Р	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

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Test Conditions

Tnom	Normal temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

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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	Tnom	25℃
Voltage	Vnom	3.8V
Humidity	Hnom	47%

5.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

5.2. Statements

The KS907, supporting GSM/GPRS/EDGE/WCDMA/LTE/BT/BLE/WLAN, manufactured by Hisense Communications Co., Ltd., which is a new product for testing.

Note: The product has two prototypes, the two samples are only different on the supplier of TP/LCM/Front and Real CAM/Flash. In this report, we test all cases about main supply, and we only test worse case about secondary supply.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

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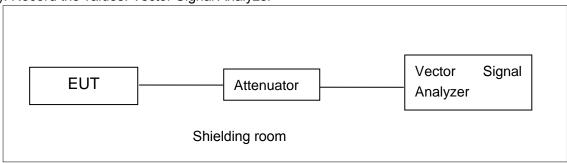
6.1. Measurement Method

6. Test

6.1.1. Conducted Measurements

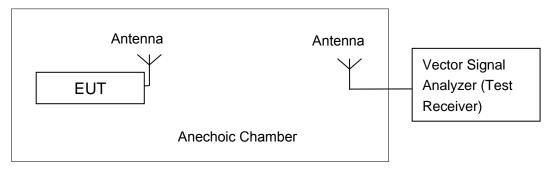
result

- 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



6.1.2. 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 C63.10.

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.

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6.2. Maximum Average Output Power-Conducted

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

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Method of Measurement: See ANSI C63.10-clause 12.3.2.2 Method SA-1 Set the spectrum analyzer in the following:

Detector: RMS. RBW=1MHz. VBW=3MHz.

Sweep time = AUTO.

Span:30MHz (for 20MHz); 50MHz (for 40MHz).

802.11a mode

U-NII-3

Mode	Data		Teat Result(dBm)	
Wiode	Rate(Mbps)	5745MHz(Ch149) 5785MHz(Ch157) 5825MHz(Ch16		5825MHz(Ch165)
802.11a	6	11.16	10.34	10.77

The data rate 6Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

U-NII-3

	Data		Teat Result(dBm)
Mode	Rate(Index)	5745MHz(Ch1 578 49) 57)	5785MHz(Ch1 57)	5825MHz(Ch16 5)
802.11n(20MHz)	MCS0	8.28	7.81	7.11

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: PASS

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6.3. Peak Power Spectral Density (conducted)

Measurement Limit:

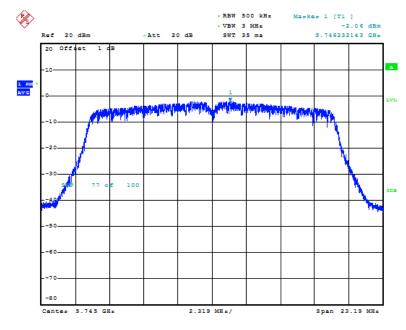
Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

The measurement is made according to ANSI C63.10 and KDB789033 D02

Measurement Results:

Mode	Channel	Power Spec (dBm/5	tral Density 00kHz)	Conclusion
	149	Fig.1	-1.981	Р
802.11a	157	Fig.2	-1.769	Р
	165	Fig.3	-1.46	Р
802.11n HT20	149	Fig.4	-6.439	Р
	157	Fig.5	-6.282	Р
	165	Fig.6	-5.847	Р

Conclusion: PASS

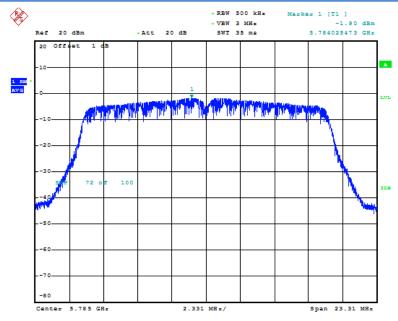


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Fig. 1 Power Spectral Density (802.11a, Ch 149)

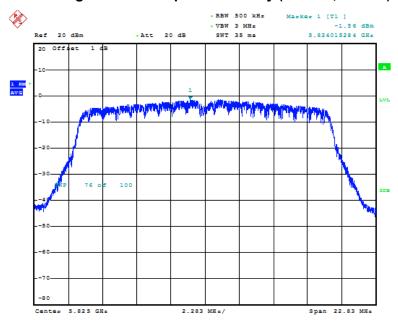
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Fig. 2 Power Spectral Density (802.11a, Ch 157)



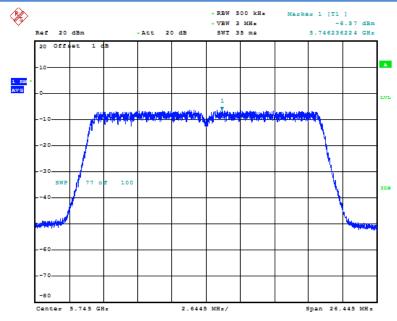
Date: 12.NOV.2018 15:58:44

Fig. 3 Power Spectral Density (802.11a, Ch 165)

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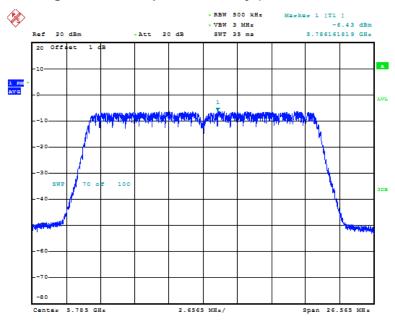


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Power Spectral Density (802.11n-HT20, Ch 149) Fig. 4

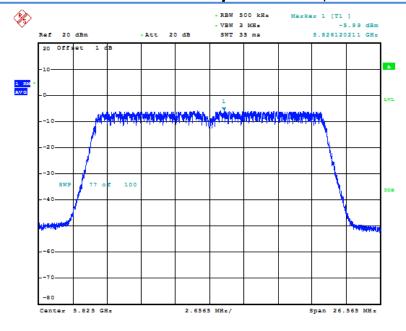


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Power Spectral Density (802.11n-HT20, Ch 157)

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Fig. 6 Power Spectral Density (802.11n-HT20, Ch 165)

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6.4. Occupied 6dB Bandwidth(conducted)

Measurement Limit:

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

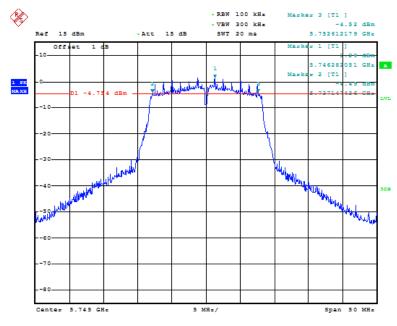
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The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	•	B Bandwidth IHz)	conclusion
802.11a	149	Fig.7	15.46	Р
	157	Fig.8	15.54	Р
	165	Fig.9	15.22	Р
802.11n HT20	149	Fig.10	17.63	Р
	157	Fig.11	17.71	Р
	165	Fig.12	17.71	Р

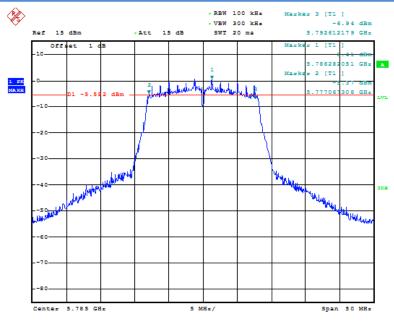
Conclusion: PASS
Test graphs as below:



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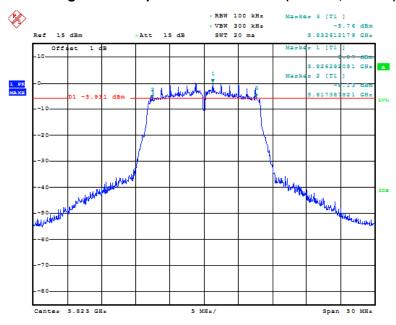
Fig. 7 Occupied 6dB Bandwidth (802.11a, Ch 149)

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Fig. 8 Occupied 6dB Bandwidth (802.11a, Ch 157)

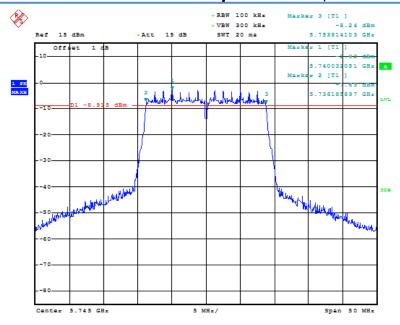


Date: 12.NOV.2018 15:51:49

Fig. 9 Occupied 6dB Bandwidth (802.11a, Ch 165)

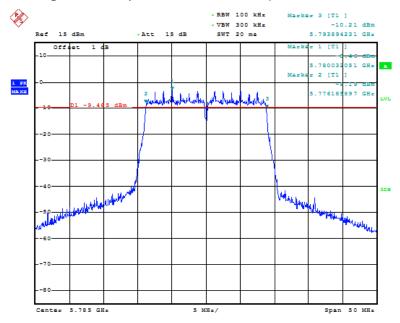
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Fig. 10 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)



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Fig. 11 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

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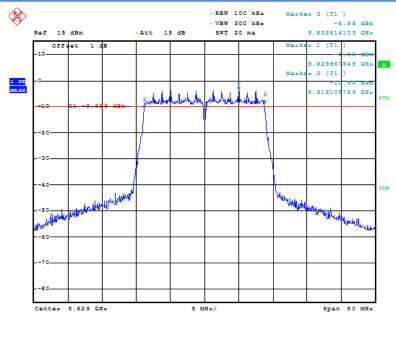


Fig. 12 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

6.5. Transmitter Spurious Emission

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Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10.

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	Field strength(uV/m)	Field strength(dBuV/m)
(MHz)		
0.009-0.490	2400/F(kHz)	/
0.490-1.705	24000/F(kHz)	/
1.705-30	30	1
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 1GHz	0.63
1GHz ≤ f ≤5.6GHz	1.55

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5.6GHz ≤ f ≤40GHz	1.86

6.5.1 Transmitter Spurious Emission – Conducted

Modulation type and data rate tested (worse case):

Mode	Data rate	Channel
802.11a	6Mbps	149(5745MHz)
802.11n-HT20	MCS0	149(5745MHz)

Measurement Results:

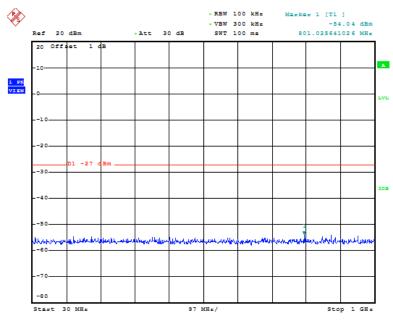
802.11a mode

MODE	Channel	Frequency Range	Test Results	Conclusion
		30 MHz ~ 1 GHz	Fig.13	Р
802.11a	149(5745MHz)	1 GHz ~ 5.6 GHz	Fig.14	Р
		5.9 GHz ~ 40 GHz	Fig.15	Р

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
000 115		30 MHz ~ 1 GHz	Fig.16	Р
802.11n HT20 149(5745MHz)	1 GHz ~ 5.6 GHz	Fig.17	Р	
ПІ20		5.9 GHz ~ 40 GHz	Fig.18	Р

Conclusion: PASS Test graphs as below:

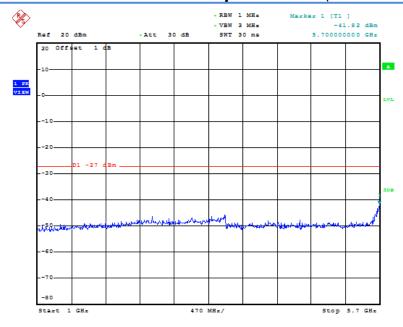


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Fig. 13 Conducted Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

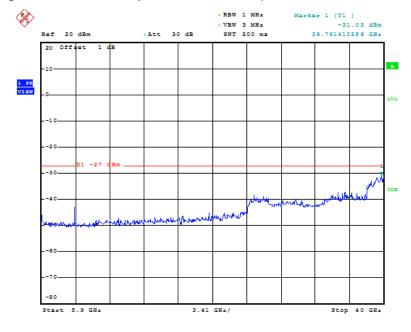
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Fig. 14 Conducted Spurious Emission (802.11a, Ch149, 1 GHz -5.7 GHz)

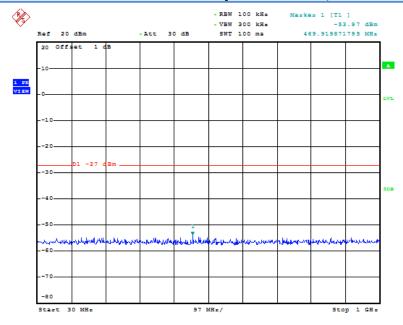


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Fig. 15 Conducted Spurious Emission (802.11a, Ch149, 5.9 GHz-40 GHz)

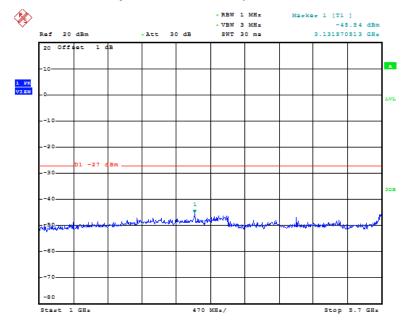
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Fig. 16 Conducted Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)



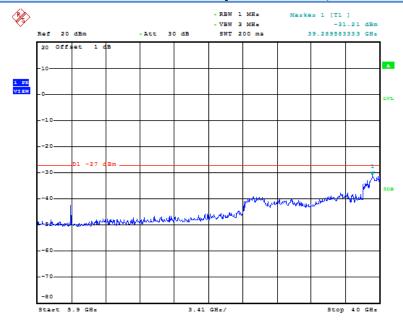
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Fig. 17 Conducted Spurious Emission (802.11n-HT20, Ch149, 1 GHz -5.7 GHz)

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Fig. 18 Conducted Spurious Emission (802.11n-HT20, Ch149, 5.9 GHz-40 GHz)

6.5.2 Transmitter Spurious Emission - Radiated

Modulation type and data rate tested (worse case):

N24 (Main supply):

Mode	Data rate	Channel
802.11a	6Mbps	149(5745MHz)
802.11n-HT20	MCS0	149(5745MHz)

N34 (Secondary supply):

Mode	Data rate	Channel
802.11a	6Mbps	149(5745MHz)

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
f≤1GHz	3.9
f>1GHz	4.3

Measurement Results:

N24 (Main supply):

802.11a mode

Mode Ch	hannel Frequ	ency Range	Test Results	Conclusion
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Fig.19		Р

	30 MHz ~1 GHz	Fig.19	Р	
	1 GHz ~ 8 GHz	Fig.20	Р	
802.11a	802.11a 149(5745MHz)	8 GHz ~ 18 GHz	Fig.21	Р
		18 GHz ~ 26.5 GHz	Fig.22	Р
	26.5 GHz~ 40 GHz	Fig.23	Р	

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
	30 MHz ~1 GHz	Fig.24	Р	
000 115		1 GHz ~ 8 GHz	Fig.25	Р
802.11n (HT20) 149(5745MHz)	8 GHz ~ 18 GHz	Fig.26	Р	
	18 GHz ~ 26.5 GHz	Fig.27	Р	
		26.5 GHz~ 40 GHz	Fig.28	Р

N34 (Secondary supply):

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
	30 MHz ~1 GHz	Fig.29	Р	
		1 GHz ~ 8 GHz	Fig.30	Р
802.11a	149(5745MHz)	8 GHz ~ 18 GHz	Fig.31	Р
		18 GHz ~ 26.5 GHz	Fig.32	Р
		26.5 GHz~ 40 GHz	Fig.33	Р

Radiated Spurious Emission (9kHz-30MHz)

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149(5745MHz)	9kHz ~ 30 MHz	Fig.34	Р

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

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

N24 (Main supply):

802.11a

Channel 149 (30MHz ~ 1GHz)

Official 140 (OOWI 12 10112)					
Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity	
34.0	24.54	-22	46.54	V	
34.9	23.38	-22	45.38	V	

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41.5	25.74	-20.7	46.44	V
83.4	28.1	-26.6	54.7	Н
92.4	31.71	-24.8	56.51	Н
189.9	33.61	-25.1	58.71	V

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
6092.8	45.11	4.8	40.31	V
6339.8	45.28	5.6	39.68	V
6705.6	46.69	6.6	40.09	V
7023.0	46.98	7.3	39.68	V
7272.4	46.37	7.3	39.07	V
7665.6	46.73	7.9	38.83	V

Channel 149 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
9190.8	48.79	10.4	38.39	٧
15713.0	55.34	21.9	33.44	V
16054.6	56.58	22.5	34.08	V
16992.0	57.17	23.7	33.47	V
17224.8	56.19	24.2	31.99	V
17670.2	56.87	24.4	32.47	Н

Channel 149 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity		
15713.0	43.43	21.9	21.53	V		
16054.6	44.16	22.5	21.66	V		
16992.0	44.83	23.7	21.13	V		
17224.8	44.4	24.2	20.2	V		
17670.2	44.49	24.4	20.09	Н		

Channel 149 (18GHz ~ 26.5GHz)

Frequency Result ARpl (dB) PMea Polarity	
--	--

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(MHz)	(dBµV/m)		(dBµV/m)	
18701.2	40.13	-5.6	45.73	Н
20100.4	40.71	-4.8	45.51	V
21261.4	44.26	-3.7	47.96	Н
23005.6	44.25	-3	47.25	Н
24151.4	44.52	-2.8	47.32	V
26066.5	46.25	-2	48.25	V

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
27323.5	44.22	-1	45.22	V
30208.4	43.92	-0.9	44.82	Н
32742.4	44.01	0.5	43.51	V
34573.0	46.01	0.7	45.31	V
36934.2	46.68	1.7	44.98	V
39577.4	51.38	4.4	46.98	V

802.11n-HT20

Channel 149 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
33.9	38.45	-22	60.45	V
35.2	35.86	-21.9	57.76	V
41.8	25.34	-20.7	46.04	V
85.5	26.8	-26.1	52.9	Н
216.0	16.13	-23.9	40.03	Н
714.6	26.96	-12.7	39.66	Н

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity		
5980.4	45.48	4.6	40.88	V		
6348.6	46.01	5.6	40.41	V		
6712.6	46.58	6.6	39.98	V		

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7041.6	46.67	7.3	39.37	V
7370.8	46.49	7.3	39.19	V
7756.8	47.49	8.4	39.09	V

Channel 149 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
15384.4	53.56	21	32.56	Н
15771.2	54.98	22	32.98	Н
16061.4	56.14	22.5	33.64	Н
16888.4	55.71	23.3	32.41	V
17163.2	56.76	24.1	32.66	Н
17510.0	57.75	24.5	33.25	V

Channel 149 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
15771.2	43.11	22	21.11	Н
16061.4	44.08	22.5	21.58	Н
16888.4	43.57	23.3	20.27	V
17163.2	44.55	24.1	20.45	Н
17510.0	44.8	24.5	20.3	V

Channel 149 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
18710.6	40.13	-5.6	45.73	Н
19961.8	40.51	-4.9	45.41	V
21720.4	44.96	-3.4	48.36	Н
22875.6	45.01	-2.9	47.91	Н
24162.5	45.5	-2.8	48.3	Н
26054.6	46.37	-2	48.37	V

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
27168.2	44.62	-1	45.62	Н

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29702.2	43.01	-1	44.01	V
31157.5	44.13	0.6	43.53	Н
33370.2	43.91	1.1	42.81	V
35242.6	45.03	0.9	44.13	Н
39021.2	49.99	4.1	45.89	Н

N34 (Secondary supply):

802.11a

Channel 149 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
33.8	11.23	-22	33.23	V
34.2	14.77	-22	36.77	V
36.5	12.6	-21.6	34.2	V
71.7	7	-25.4	32.4	V
187.9	7.63	-25.2	32.83	V
306.2	11.74	-21.7	33.44	V

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
6276.0	45.92	5.5	40.42	Н
6431.0	46.62	5.8	40.82	Н
6733.4	47.52	6.7	40.82	Н
6986.8	46.97	7.2	39.77	Н
7260.4	46.51	7.3	39.21	Н
7531.0	47.79	7.5	40.29	Н

Channel 149 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
15698.8	55.89	21.8	34.09	Н
16118.2	56.14	22.4	33.74	Н
16508.6	55.92	22.7	33.22	Н
16787.0	55.73	23.4	32.33	Н

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17186.8	56.19	24.1	32.09	Н
17522.0	57.36	24.5	32.86	Н

Channel 149 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
15698.8	43.66	21.8	21.86	Н
16118.2	44.32	22.4	21.92	Н
16508.6	43.24	22.7	20.54	Н
16787.0	43.69	23.4	20.29	Н
17186.8	44.5	24.1	20.4	Н
17522.0	44.99	24.5	20.49	Н

Channel 149 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
18671.5	38.88	-5.6	44.48	Н
20187.0	40.71	-4.8	45.51	Н
21680.5	43.07	-3.4	46.47	Н
23023.5	45.02	-3	48.02	V
24821.2	44	-2.3	46.3	Н
26008.7	47.03	-1.9	48.93	V

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBµV/m)	ARpl (dB)	PMea (dBµV/m)	Polarity
27786.6	44.2	-0.5	44.7	Н
30123.4	43.11	-1.1	44.21	V
32199.7	45.23	0.5	44.73	Н
34415.0	46.43	1.3	45.13	Н
36893.6	46.28	1.9	44.38	Н
39883.9	52.47	5.6	46.87	Н

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Test graphs as below:

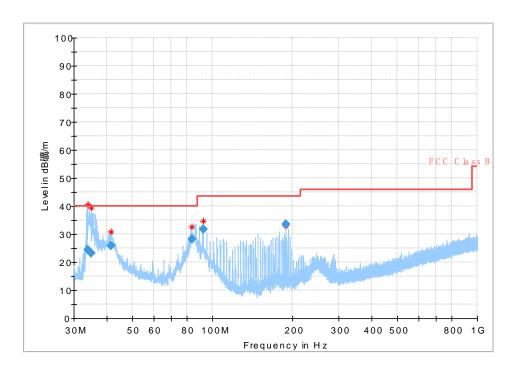


Fig. 19 Radiated Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

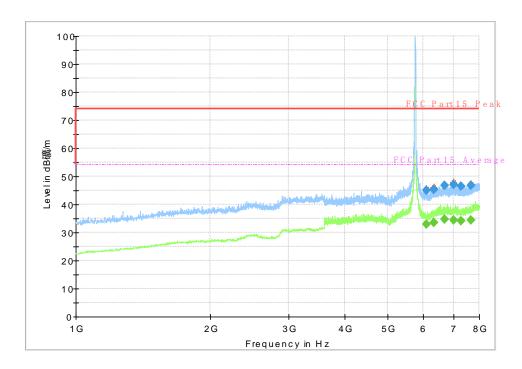


Fig. 20 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-8 GHz)

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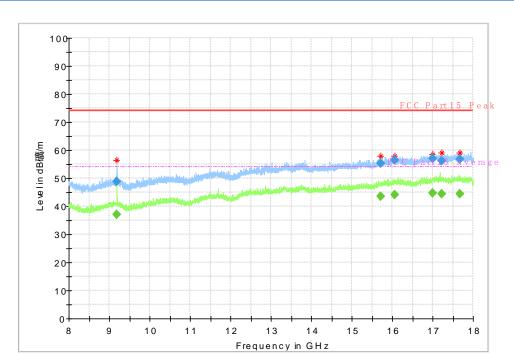


Fig. 21 Radiated Spurious Emission (802.11a, Ch149, 8 GHz-18 GHz)

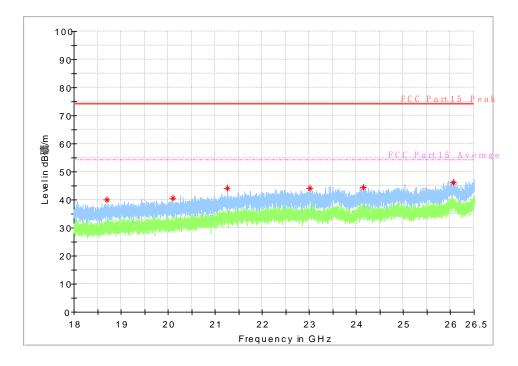


Fig. 22 Radiated Spurious Emission (802.11a, C149, 18 GHz-26.5 GHz)

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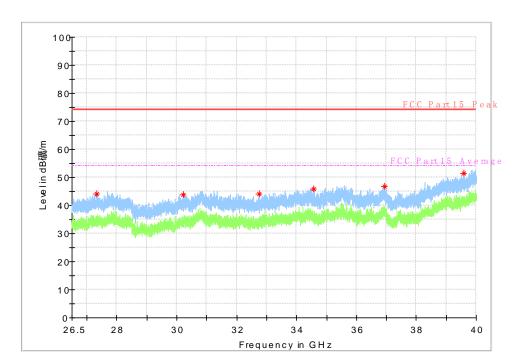


Fig. 23 Radiated emission: 802.11n, (802.11a, Ch149, 26.5 GHz - 40 GHz)

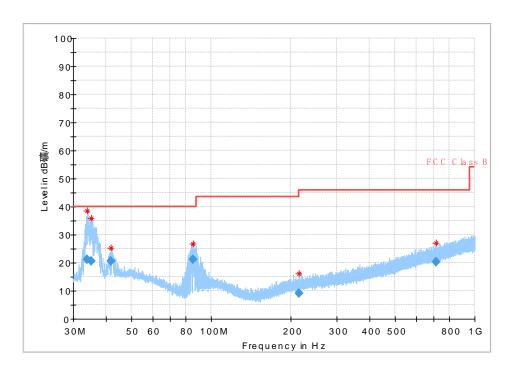


Fig. 24 Radiated Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)

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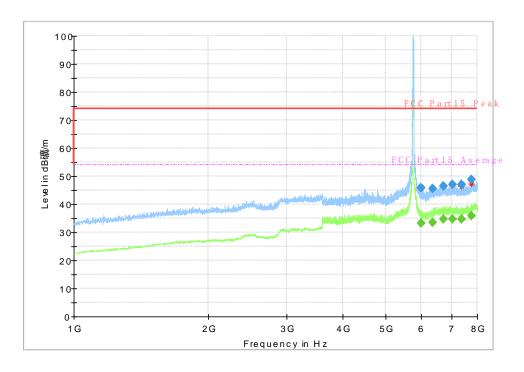


Fig. 25 Radiated Spurious Emission (802.11n-HT20, Ch149, 1 GHz-8 GHz)

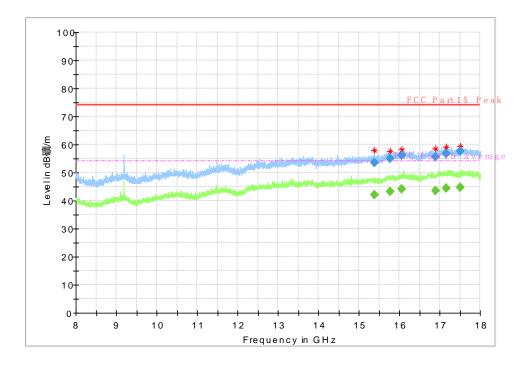


Fig. 26 Radiated Spurious Emission (802.11n-HT20, Ch149, 8 GHz-18 GHz)

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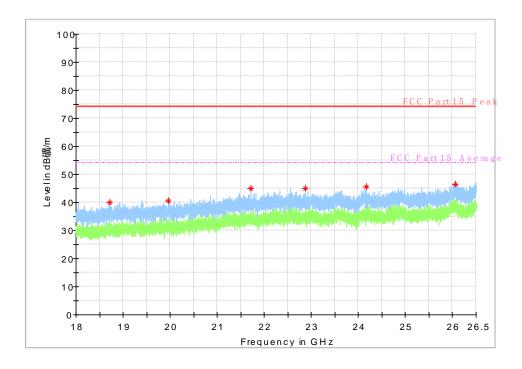


Fig. 27 Radiated Spurious Emission (802.11n-HT20, Ch149, 18 GHz-26.5 GHz)

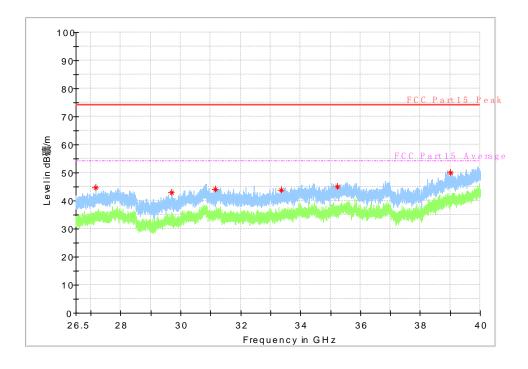


Fig. 28 Radiated emission: 802.11n, (802.11n-HT20, Ch149, 26.5 GHz - 40 GHz)

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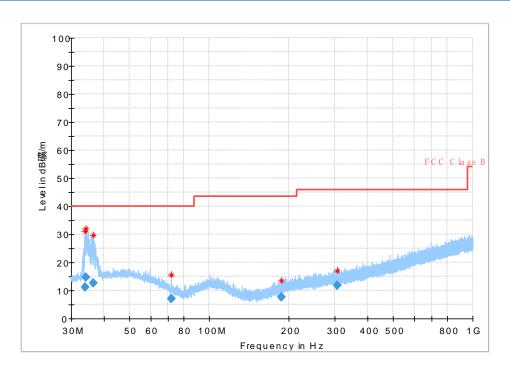


Fig. 29 Radiated Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

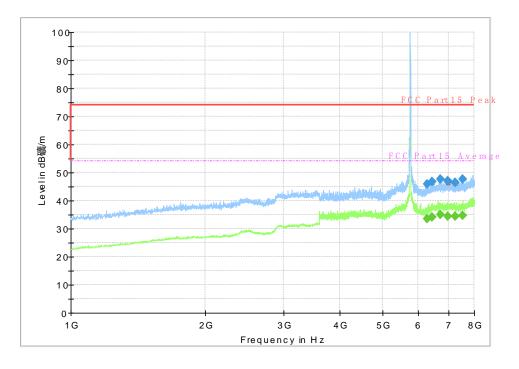


Fig. 30 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-8 GHz)

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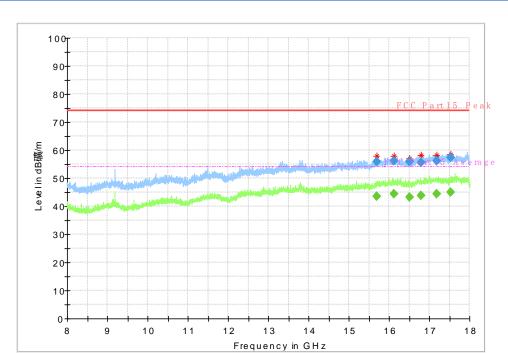


Fig. 31 Radiated Spurious Emission (802.11a, Ch149, 8 GHz-18 GHz)

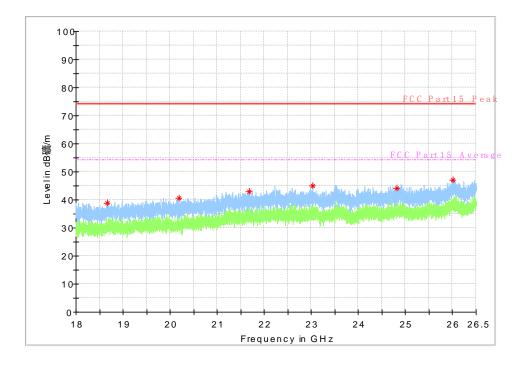


Fig. 32 Radiated Spurious Emission (802.11a, C149, 18 GHz-26.5 GHz)

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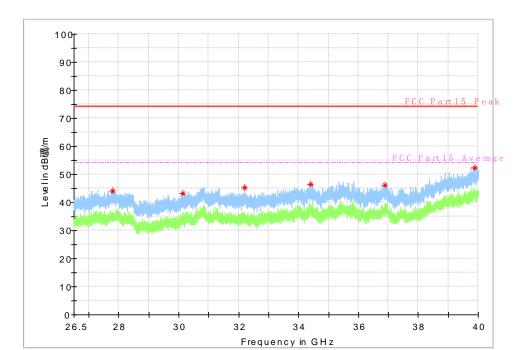


Fig. 33 Radiated emission: 802.11n, (802.11a, Ch149, 26.5 GHz - 40 GHz)

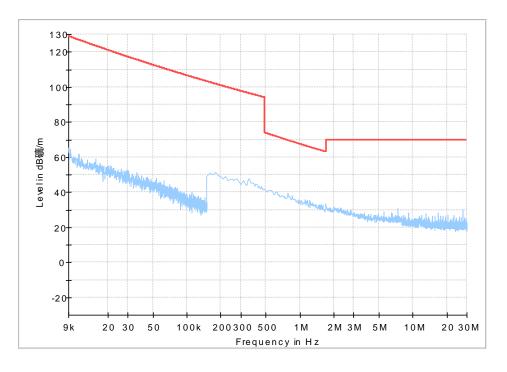


Fig. 34 Radiated Spurious Emission (9kHz-30MHz)

6.6. Band Edges Compliance

Band Edges - Radiated

Measurement Limit:

(1) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (5) 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 (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Set the spectrum analyzer in the following:

(a) Sweep mode :SweepAnalyzer6db.

(b) PEAK: RBW=1MHz / VBW=3MHz / Sweep=2.5ms, Sweep point;5001

(c) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=2.5ms, Sweep point;5001

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Measurement Result:

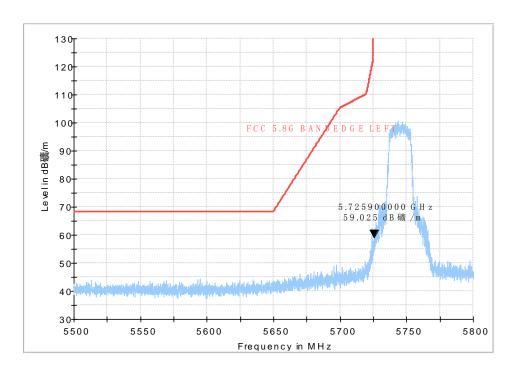
N24 (Main supply):

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.35	Р
002.11a	5825 MHz	Fig.36	Р
802.11n	5745 MHz	Fig.37	Р
HT20	5825 MHz	Fig.38	Р

N34 (Secondary supply):

Mode	Channel	Test Results	Conclusion
902 110	5745 MHz	Fig.39	Р
802.11a	5825 MHz	Fig.40	Р

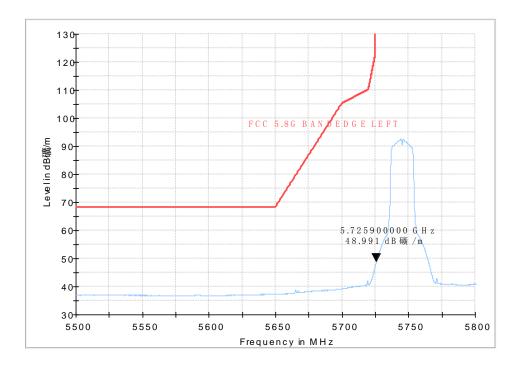
Conclusion: PASS Test graphs as below:



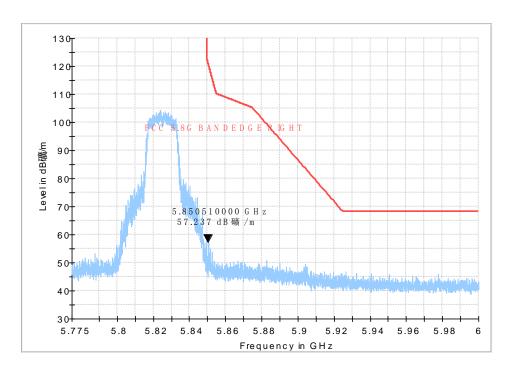
Peak

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Average Fig. 35 Band Edges (802.11a, 5745MHz)

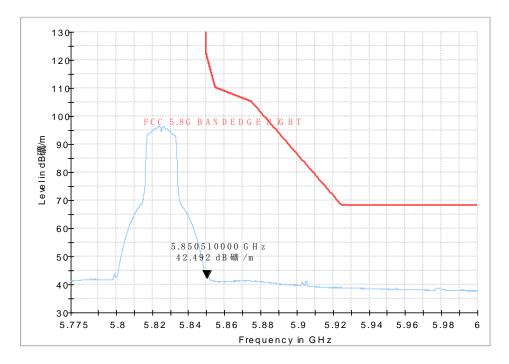


Peak

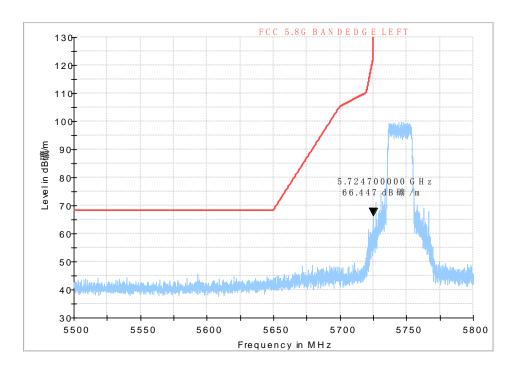
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Average Fig. 36 Band Edges (802.11a, 5825MHz)

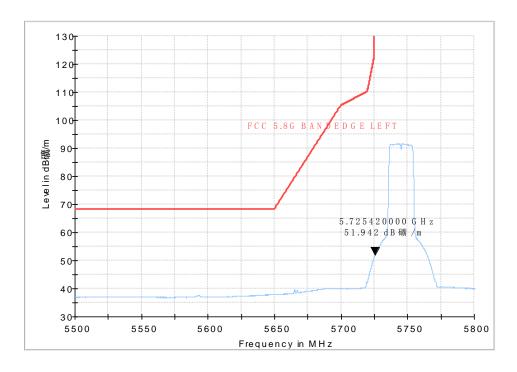


Peak

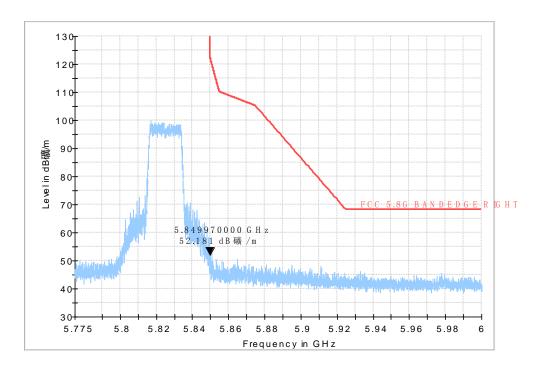
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Average Fig. 37 Band Edges (802.11n-HT20, 5745MHz)

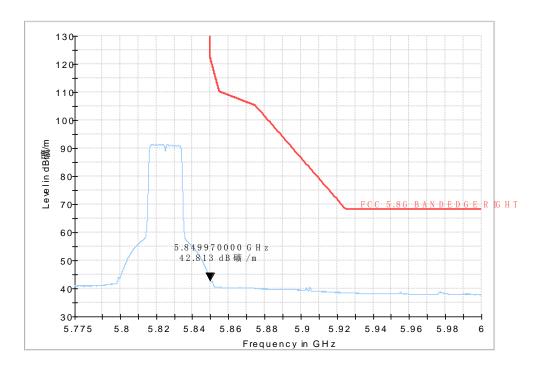


Peak

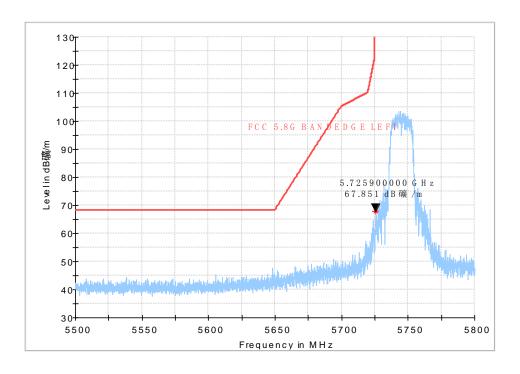
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Average Fig. 38 Band Edges (802.11n-HT20, 5825MHz)

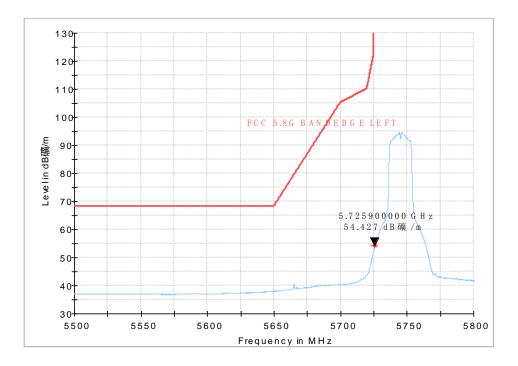


Peak

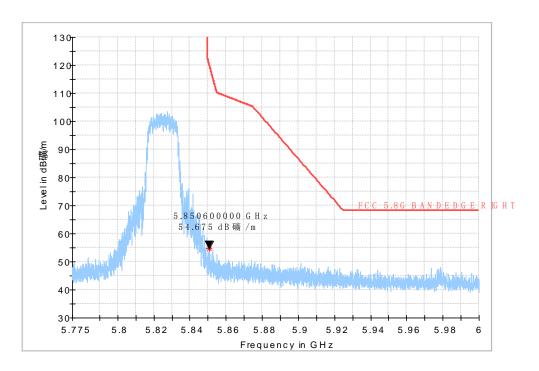
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Average Fig. 39 Band Edges (802.11a, 5745MHz)

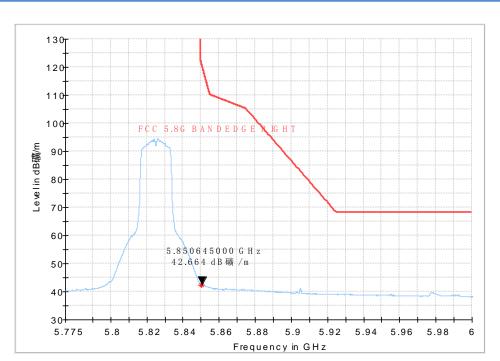


Peak

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Average Fig. 40 Band Edges (802.11a, 5825MHz)

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6.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

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Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV) With charger		Conclusion	
(141112)	Lillint (αΒμ ν)	802.11a	Idle]	
0.15 to 0.5	66 to 56				
0.5 to 5	56	Fig.41		Р	
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	Result (dBμV) With charger		Conclusion
(IVITZ)	(dBμV)	802.11a	ldle	
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.4	1	Р
5 to 30	50			

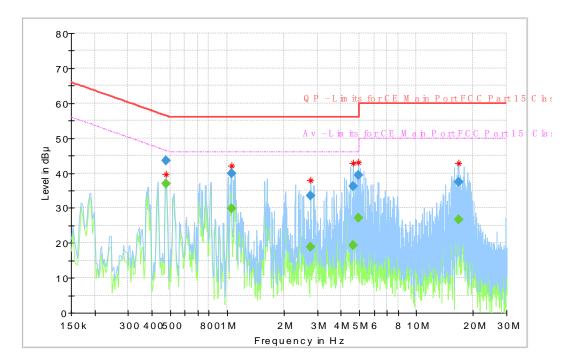
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10.

Conclusion: PASS Test graphs as below:

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Fig. 41 AC Powerline Conducted Emission-802.11a

Measurement Result 1:

Frequency	QuasiPeak	Average	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	Time	(kHz)			(dB)
					(ms)				
0.478350		37.00	46.37	9.37	1000.	9.000	L1	ON	9.7
0.478350	43.48		56.37	12.88	1000.	9.000	L1	ON	9.7
1.052963		29.86	46.00	16.14	1000.	9.000	L1	ON	9.7
1.052963	39.84		56.00	16.16	1000.	9.000	L1	ON	9.7
2.765606		18.80	46.00	27.20	1000.	9.000	L1	ON	9.7
2.765606	33.56		56.00	22.44	1000.	9.000	L1	ON	9.7
4.623769		19.35	46.00	26.65	1000.	9.000	L1	ON	9.8
4.623769	36.17		56.00	19.83	1000.	9.000	L1	ON	9.8
4.970775		27.05	46.00	18.95	1000.	9.000	L1	ON	9.8
4.970775	39.45		56.00	16.55	1000.	9.000	L1	ON	9.8
16.746600		26.60	50.00	23.40	1000.	9.000	L1	ON	9.9
16.746600	37.48		60.00	22.52	1000.	9.000	L1	ON	9.9



6.8. 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.

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6.9. Automatically discontinue transmission

6.9.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

6.9.2 Test Result of Automatically Discontinue Transmission

Once the process halted for operational failure, corresponding data stream will be closed. The device periodically scans surrounding pair devices to update pair devices list when RF module is turned on and will not transmit useless packet.

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7. Test Equipment and Ancillaries Used For Tests

The test equipment and ancillaries used are as follows.

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibrati on date	Cal.interval
1	Vector Signal Analyzer	FSQ40	200063	Rohde&Schwar z	2017-12- 17	1 Year
2	DC Power Supply	ZUP60-14	LOC-220Z006 -0007	TDL-Lambda	2018-05- 11	1 Year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibrati on date	Cal.interval
1	Universal Radio Communicat ion Tester	CMU200	123123	R&S	2018-05- 11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2018-05- 11	1 Year
3	TRILOG Broadband Antenna	VULB916 3	VULB9163-51 5	Schwarzbeck	2017-02- 25	3 Year
4	Double- ridged Waveguide Antenna	ETS-311 7	00135890	ETS	2017-01- 11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2018-05- 11	1 Year
6	Loop Antenna	AL-130R	121083	COM-POWER	2016-11- 21	3 Year

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Anechoic chamber

Fully anechoic chamber by Frankonia German.

8. Test 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. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 25 %, Max. = 75 %		
Shielding effectiveness	> 100 dB		
Electrical insulation	> 10 kΩ		
Ground system resistance	< 0.5 Ω		
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz		
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz		
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz		

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9. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents. The detailed measurement uncertainty to see the column, k=2

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Measurement Items	Range	Confide nce Level	Calculated Uncertainty
Maximum Peak Output Power	3600MHz-8000MHz	95%	\pm 0.92db
EBW and VBW	3600MHz-8000MHz	95%	±0.031MHz
Transmitter Spurious Emission-Conducted	9KHz-10000MHz	95%	±4.56db
Transmitter Spurious Emission-Conducted	10000 MHz -40000MHz	95%	\pm 5.34db
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	±5.66db
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	\pm 4.98db
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	±5.06db
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	\pm 5.20db
AC Power line Conducted Emission	0.15MHz-30MHz	95%	\pm 5.66 db
Peak Power Spectral Density	3600MHz-8000MHz	95%	\pm 0.92db

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ANNEX A. Accreditation Certificate



Inis laboratory is accredited in accordance with the recognized international standard ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of March 2017.

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President and CEO For the Accreditation Council Certificate Number 3682.01 Valid to February 28, 2019

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For the fests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*******END OF REPORT*******

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