FCC PART 15C
TEST REPORT

No. I22Z61292-EMC04

BLU Products, Inc.

Smart Phone

Model Name: B1550VL

with

Hardware Version: V1.0

Software Version: BLU_B1550VL_V12.0.02.05.02.17_FSec

FCC ID: YHLBLUB1550VL

Issued Date: 2022-09-30

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

CONTENTS

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, 100191, P. R. China

1.3. Testing Environment

Normal Temperature: 15-35° C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2022-08-20

Testing End Date: 2022-08-30

1.5. Signature

Wang Xue

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	BLU Products, Inc.
Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Contact Person	Zeng wei
E-Mail	zwei@ctasiasz.com
Telephone:	305.715.7171
Fax:	305.436.8819

2.2. Manufacturer Information

Company Name:	BLU Products, Inc.
Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Contact Person	Zeng wei
E-Mail	zwei@ctasiasz.com
Telephone:	305.715.7171
Fax:	305.436.8819

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

3.1. About EUT

Description	Smart Phone
Model Name	B1550VL
RF Protocol	IEEE 802.11 b/g/n20
Operating Frequency	2412MHz~2462MHz
Number of Channels	11
Antenna Type	Integrated
Antenna Gain	2.4 dBi
Power Supply	3.85V DC by Battery
FCC ID	YHLBLUB1550VL
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT41a	350547790007484	V1.0	BLU_B1550VL_V12.0.02.05.02.17_FSec	2022-08-10

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

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	/
AE2	Charger	/

AE1

Model	TN-BP4000N1
Manufacturer	Guangdong Fenghua New Energy Co.,Ltd.
Capacity	4000mAh
Nominal Voltage	3.85V

AE2

Model	TN-050200U3
Manufacturer	Guangdong Beicom Electronics Co.,Ltd.

*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 Smart Phone with integrated antenna and battery. It consists of normal options: Lithium Battery and Charger. 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.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Results

5.1. Summary of Test Results

Abbreviations used in this clause:

P Pass, The EUT complies with the essential requirements in the standard.

F Fail, The EUT does not comply with the essential requirements in the standard

NA Not Applicable, The test was not applicable

NP Not Performed, The test was not performed by CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Transmitter Spurious Emission - Radiated	15.247, 15.205, 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 ANSI C63.10.

5.1. Statements

CTTL has evaluated the test cases requested by the applicant /manufacturer as listed in section 5.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due Date	Calibration Period
1	Test Receiver	ESCI	100344	R&S	2023-03-21	1 year
2	LISN	ENV216	101200	R&S	2023-06-29	1 year

Test software

No.	Equipment	Manufacturer	Version
1	EMC32	R&S	V10.60.20

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due Date	Calibration Period
1	Test Receiver	ESW44	103023	R&S	2022-10-28	1 year
2	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
3	EMI Antenna	3115	00167250	ETS-Lindgren	2022-12-23	1 year

7. Laboratory Environment

Semi-anechoic chamber SAC-1 (10 meters×6.7meters×6.1meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C**,** Max. = 35 ˚C
Relative humidity	Min. = 15 %**,** Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	**<** ±4 dB, 3m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 6GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz－1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω

8. Measurement Uncertainty

8.1. Radiated Spurious Emission

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.15
1GHz ≤ f ≤18GHz	5.54
18GHz ≤ f ≤40GHz	5.26

8.2. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty (k=2)	3.08dB

ANNEX A: Detailed Test Results

A.1 Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 &6.5 & 6.6

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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

Frequency (MHz)	Field strength(μV/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

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: UT41a

Measurement results for Set.1:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig. 34	**P**
	11	2.45GHz~2.50GHz---H	Fig. 35	**P**

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig. 36	**P**
	11	2.45GHz~2.50GHz---H	Fig. 37	**P**

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig. 38	**P**
	11	2.45GHz~2.50GHz---H	Fig. 39	**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:

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

Peak

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4824.000	52.90	-37.50	33.10	57.20	74.00	21.10	H
17977.000	52.54	-25.50	46.70	31.34	74.00	21.46	V
14080.500	50.16	-29.40	41.70	37.96	74.00	23.84	V
12899.000	48.46	-30.70	39.10	39.96	74.00	25.54	H
9494.000	47.08	-33.20	37.90	42.38	74.00	26.92	H
2377.200	55.66	-20.00	28.10	47.66	74.00	18.34	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4874.000	54.65	-37.20	33.20	58.65	74.00	19.35	H
17436.500	52.44	-26.90	45.20	34.04	74.00	21.56	H
13689.500	51.30	-29.50	40.40	40.40	74.00	22.70	H
12777.500	48.85	-30.70	39.10	40.35	74.00	25.15	H
9329.000	46.65	-33.90	38.00	42.55	74.00	27.35	H
7437.500	46.04	-35.20	36.70	44.44	74.00	27.96	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4924.000	56.56	-37.10	33.30	60.36	74.00	17.44	H
17989.500	52.63	-25.50	46.70	31.43	74.00	21.37	V
14096.500	50.60	-29.40	41.70	38.40	74.00	23.40	H
11897.500	48.25	-31.80	39.00	41.05	74.00	25.75	H
8932.000	46.83	-33.30	38.20	41.93	74.00	27.17	V
2486.800	57.42	-20.00	28.30	49.12	74.00	16.58	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17235.500	52.85	-25.90	44.40	34.45	74.00	21.15	V
13751.000	50.58	-29.10	40.90	38.78	74.00	23.42	H
12784.000	49.67	-30.70	39.10	41.17	74.00	24.33	V
8707.500	47.19	-34.40	38.00	43.59	74.00	26.81	V
7313.500	46.04	-35.00	36.50	44.44	74.00	27.96	V
2389.600	68.18	-20.00	28.10	60.18	74.00	5.82	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.000	52.42	-25.50	46.70	31.22	74.00	21.58	H
13735.500	50.54	-29.10	40.90	38.74	74.00	23.46	H
4874.500	48.95	-37.20	33.20	52.95	74.00	25.05	H
12748.500	48.25	-30.50	39.10	39.65	74.00	25.75	V
8703.500	46.44	-34.40	38.00	42.84	74.00	27.56	V
7892.000	45.97	-34.90	37.10	43.77	74.00	28.03	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17433.500	52.76	-26.90	45.20	34.36	74.00	21.24	H
13708.000	51.85	-29.10	40.90	40.05	74.00	22.15	V
4918.500	49.33	-37.10	33.30	53.13	74.00	24.67	H
12873.000	48.35	-30.70	39.10	39.85	74.00	25.65	H
9621.000	46.89	-33.10	38.00	41.99	74.00	27.11	V
2486.400	69.19	-20.00	28.30	60.89	74.00	4.81	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17621.000	52.78	-25.70	46.00	32.58	74.00	21.22	H
14099.000	50.34	-29.40	41.70	38.14	74.00	23.66	V
11789.000	48.93	-32.00	39.00	41.93	74.00	25.07	H
9617.500	47.16	-33.10	38.00	42.26	74.00	26.84	H
7502.000	45.57	-34.50	36.80	43.27	74.00	28.43	V
2487.600	64.87	-20.00	28.30	56.57	74.00	9.13	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.000	52.39	-25.50	46.70	31.19	74.00	21.61	H
14592.500	50.64	-27.30	41.90	36.04	74.00	23.36	V
11910.500	48.02	-31.80	39.00	40.82	74.00	25.98	V
4873.500	47.77	-37.20	33.20	51.77	74.00	26.23	H
9610.500	46.60	-33.10	38.00	41.70	74.00	27.40	V
7320.500	46.22	-35.10	36.60	44.72	74.00	27.78	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17370.000	52.72	-25.90	44.40	34.32	74.00	21.28	H
13704.000	50.56	-29.10	40.90	38.76	74.00	23.44	V
4918.500	50.51	-37.10	33.30	54.31	74.00	23.49	H
12693.000	48.06	-30.50	39.10	39.46	74.00	25.94	V
9498.000	46.78	-33.20	37.90	42.08	74.00	27.22	H
2389.600	67.28	-20.00	28.10	59.28	74.00	6.72	H

Average

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4824.000	50.39	-37.50	33.10	54.69	54.00	3.61	H
17962.500	41.02	-25.50	46.70	19.82	54.00	12.98	V
13677.000	39.17	-29.50	40.40	28.27	54.00	14.83	H
12756.500	36.99	-30.50	39.10	28.39	54.00	17.01	V
9478.500	35.39	-33.20	37.90	30.69	54.00	18.61	V
2389.300	42.93	-20.00	28.10	34.93	54.00	11.07	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4874.000	52.35	-37.20	33.20	56.35	54.00	1.65	H
17974.000	41.20	-25.50	46.70	20.00	54.00	12.80	V
14563.000	38.96	-27.30	41.90	24.36	54.00	15.04	H
12771.500	37.08	-30.50	39.10	28.48	54.00	16.92	V
9505.500	35.40	-33.20	37.90	30.70	54.00	18.60	H
7231.000	34.73	-35.50	36.40	33.83	54.00	19.27	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4924.000	54.12	-37.10	33.30	57.92	54.00	-0.12	H
17976.000	41.03	-25.50	46.70	19.83	54.00	12.97	H
14087.000	39.04	-29.40	41.70	26.84	54.00	14.96	H
12775.500	36.98	-30.70	39.10	28.48	54.00	17.02	V
9478.000	35.52	-33.20	37.90	30.82	54.00	18.48	V
2487.200	48.57	-20.00	28.30	40.27	54.00	5.43	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17348.000	40.98	-25.90	44.40	22.58	54.00	13.02	V
13719.500	39.01	-29.10	40.90	27.21	54.00	14.99	H
12765.500	37.10	-30.50	39.10	28.50	54.00	16.90	V
8723.000	35.37	-34.40	38.00	31.77	54.00	18.63	V
4828.500	34.74	-37.50	33.10	39.04	54.00	19.26	H
2389.900	53.40	-20.00	28.10	45.40	54.00	0.60	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.500	41.00	-25.50	46.70	19.80	54.00	13.00	V
13712.000	39.19	-29.10	40.90	27.39	54.00	14.81	H
4871.500	38.09	-37.20	33.20	42.09	54.00	15.91	H
12768.000	36.99	-30.50	39.10	28.39	54.00	17.01	H
9503.500	35.27	-33.20	37.90	30.57	54.00	18.73	H
7327.000	34.89	-35.10	36.60	33.39	54.00	19.11	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.000	41.13	-25.50	46.70	19.93	54.00	12.87	H
4925.500	39.40	-37.10	33.30	43.20	54.00	14.60	H
13712.500	39.03	-29.10	40.90	27.23	54.00	14.97	H
13000.000	37.10	-30.50	39.20	28.40	54.00	16.90	H
8716.500	35.51	-34.40	38.00	31.91	54.00	18.49	H
2486.800	50.35	-20.00	28.30	42.05	54.00	3.65	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.000	41.04	-25.50	46.70	19.84	54.00	12.96	V
13713.500	38.97	-29.10	40.90	27.17	54.00	15.03	V
12764.500	37.07	-30.50	39.10	28.47	54.00	16.93	V
9493.500	36.00	-33.20	37.90	31.30	54.00	18.00	V
4824.000	35.00	-37.50	33.10	39.30	54.00	19.00	H
2485.000	47.36	-20.00	28.30	39.06	54.00	6.64	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17337.500	41.02	-25.90	44.40	22.62	54.00	12.98	H
13701.500	39.25	-29.10	40.90	27.45	54.00	14.75	V
4873.000	37.67	-37.20	33.20	41.67	54.00	16.33	H
12999.500	36.98	-30.50	39.20	28.28	54.00	17.02	V
8730.000	35.43	-34.40	38.00	31.83	54.00	18.57	H
7313.500	34.95	-35.00	36.50	33.35	54.00	19.05	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.500	40.97	-25.50	46.70	19.77	54.00	13.03	H
13730.000	39.20	-29.10	40.90	27.40	54.00	14.80	H
4924.000	39.00	-37.10	33.30	42.80	54.00	15.00	H
12775.500	37.06	-30.70	39.10	28.56	54.00	16.94	V
9490.000	35.18	-33.20	37.90	30.48	54.00	18.82	H
2390.000	50.25	-20.00	28.10	42.25	54.00	3.75	H

Test graphs as below:

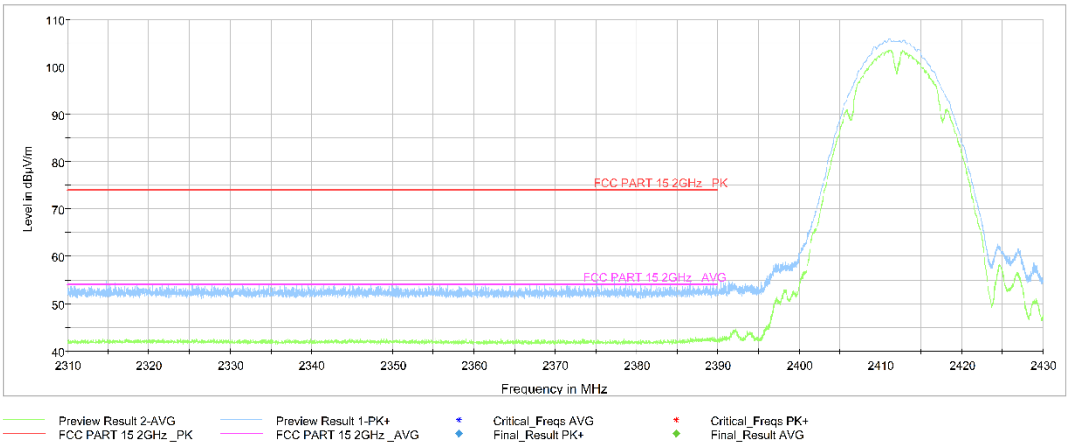

Fig.1 Transmitter Spurious Emission - Radiated: 802.11b, ch1, 2.31 GHz – 2.43GHz

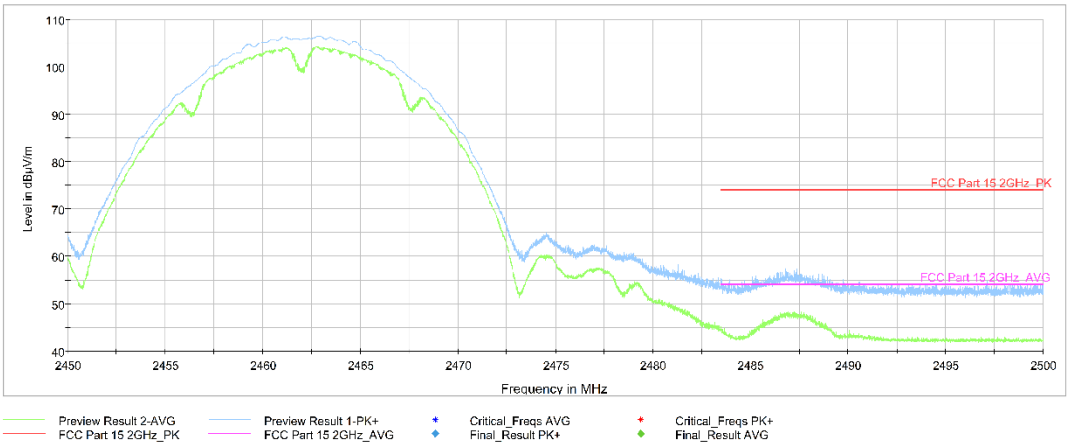

Fig.2 Transmitter Spurious Emission - Radiated: 802.11b, ch11, 2.45 GHz - 2.50GHz

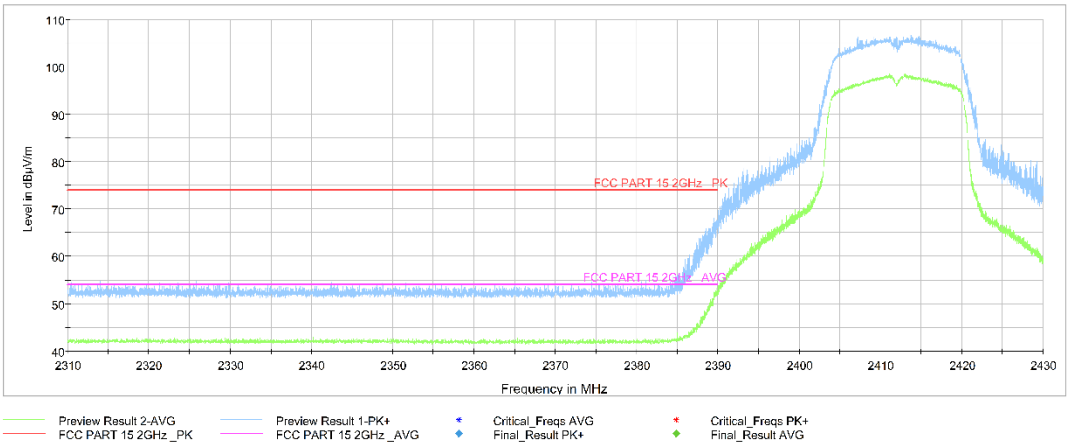

Fig.3 Transmitter Spurious Emission - Radiated: 802.11g, ch1, 2.31 GHz - 2.43GHz

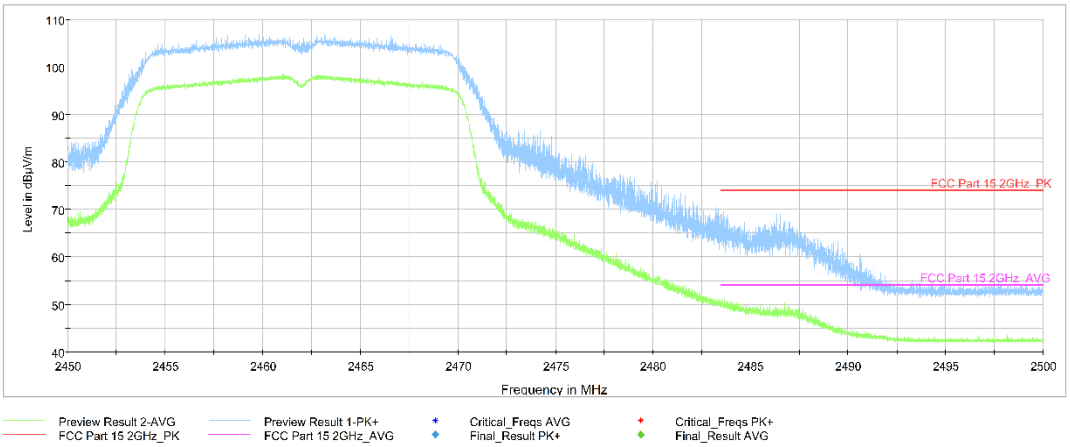

Fig.4 Transmitter Spurious Emission - Radiated: 802.11g, ch11, 2.45 GHz - 2.50GHz

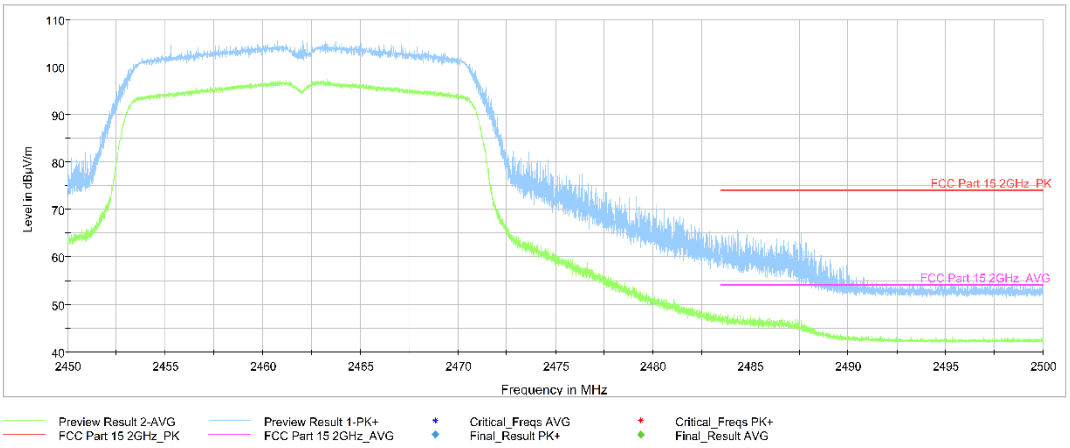

Fig.5 Transmitter Spurious Emission - Radiated: 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

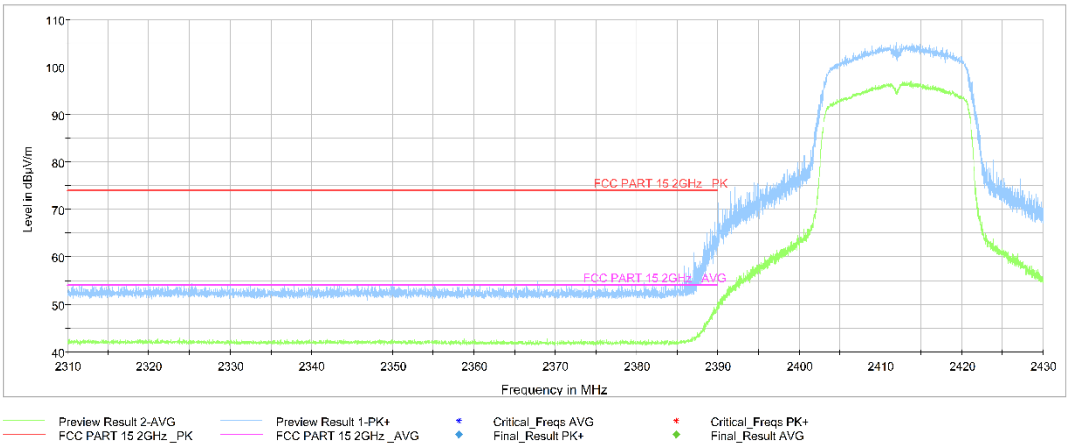

Fig.6 Transmitter Spurious Emission - Radiated: 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

A.2. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.40	Fig.41	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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.40	Fig.41	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:

Measurement results for Set.1:

Result for Traffic:

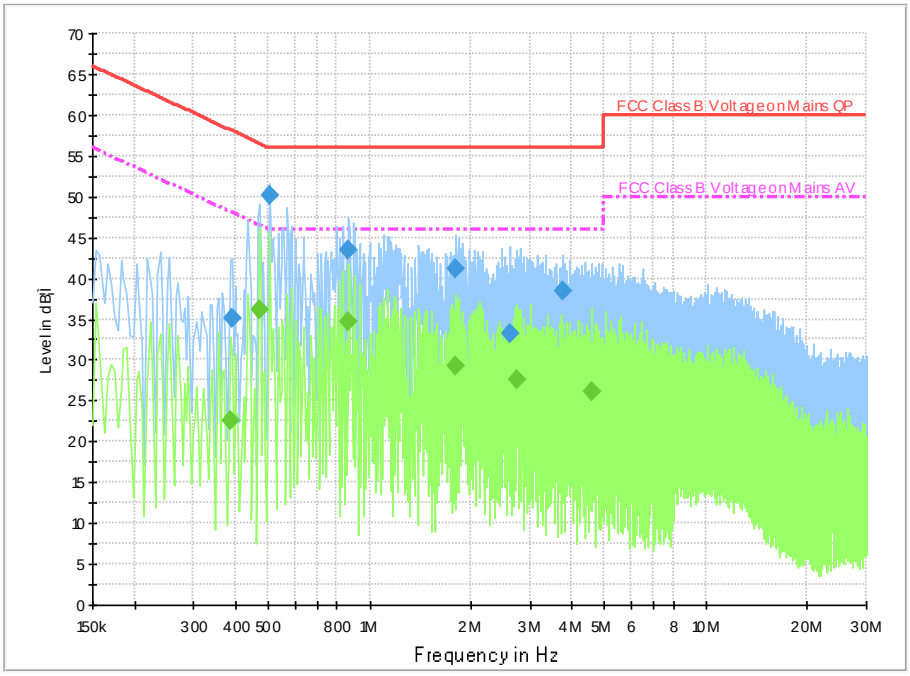

Fig.7 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.390000	35.2	5000.0	9.000	On	L1	19.7	22.9	58.1	
0.502000	50.2	5000.0	9.000	On	L1	19.7	5.8	56.0	
0.866000	43.4	5000.0	9.000	On	L1	19.7	12.6	56.0	
1.810000	41.2	5000.0	9.000	On	L1	19.6	14.8	56.0	
2.614000	33.2	5000.0	9.000	On	N	19.6	22.8	56.0	
3.742000	38.5	5000.0	9.000	On	L1	19.6	17.5	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.386000	22.5	5000.0	9.000	On	L1	19.7	25.7	48.1	
0.470000	36.2	5000.0	9.000	On	L1	19.7	10.3	46.5	
0.866000	34.6	5000.0	9.000	On	L1	19.7	11.4	46.0	
1.810000	29.3	5000.0	9.000	On	L1	19.6	16.7	46.0	
2.730000	27.6	5000.0	9.000	On	L1	19.6	18.4	46.0	
4.594000	26.1	5000.0	9.000	On	L1	19.6	19.9	46.0	

Result for Idle:

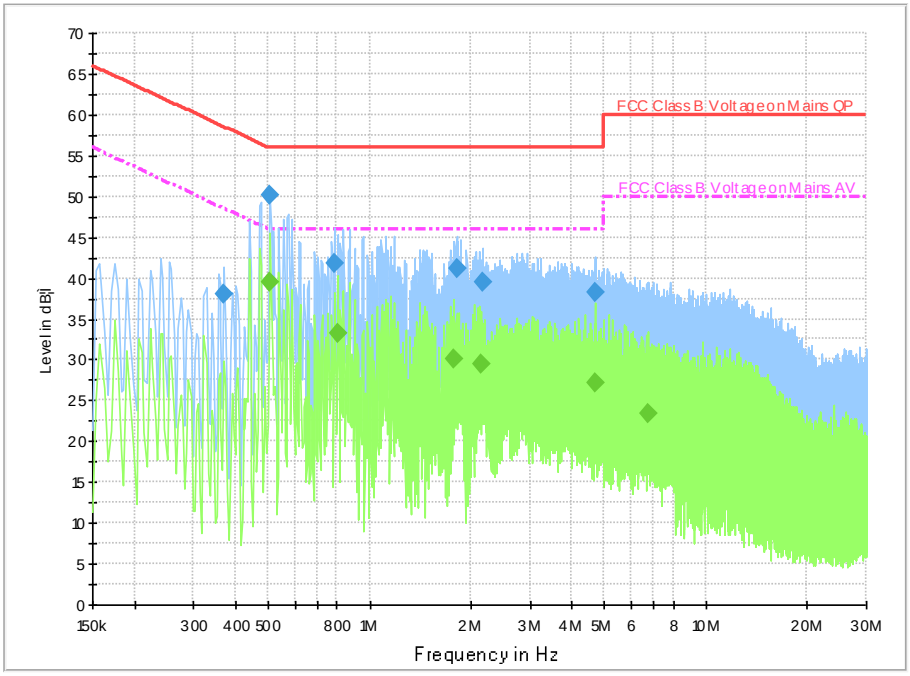

Fig.8 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.370000	38.0	5000.0	9.000	On	L1	19.7	20.5	58.5	
0.502000	50.2	5000.0	9.000	On	L1	19.7	5.8	56.0	
0.786000	41.9	5000.0	9.000	On	L1	19.7	14.1	56.0	
1.814000	41.1	5000.0	9.000	On	L1	19.6	14.9	56.0	
2.178000	39.4	5000.0	9.000	On	L1	19.6	16.6	56.0	
4.666000	38.1	5000.0	9.000	On	L1	19.6	17.9	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.506000	39.6	5000.0	9.000	On	L1	19.7	6.4	46.0	
0.802000	33.3	5000.0	9.000	On	L1	19.7	12.7	46.0	
1.778000	30.1	5000.0	9.000	On	L1	19.6	15.9	46.0	
2.134000	29.5	5000.0	9.000	On	L1	19.6	16.5	46.0	
4.666000	27.2	5000.0	9.000	On	L1	19.6	18.8	46.0	
6.710000	23.4	5000.0	9.000	On	L1	19.6	26.6	50.0	

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