

TEST REPORT

Product Name : Blood Pressure Meter

Brand Mark : PICOOC Model No. : PA-54

FCC ID : 2ALE7-PA-54

Report Number : BLA-EMC-202006-A4301

Date of Sample Receipt : 2020/6/16

Date of Test : 2020/6/16 to 2020/7/2

Date of Issue : 2020/7/2

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

Prepared for:

PICOOC Technology Co., Ltd.

Room 507, F/5, Wanwei Building, No.5 Industrial Road, NanShan District Shenzhen, China

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

IOT Test Centre of BlueAsia

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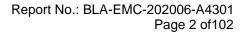
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Approved by:

Review by:

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REPORT REVISE RECORD

Version No.	on No. Date Description	
00	2020/7/2	Original





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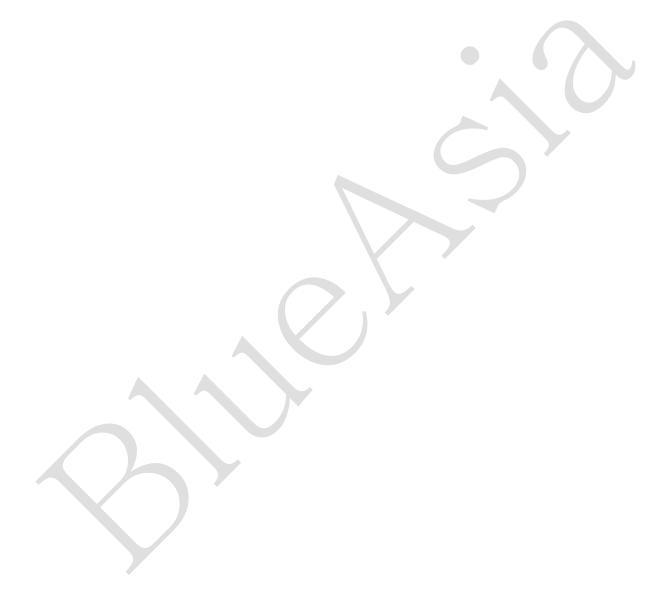


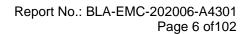
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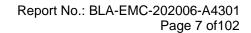






1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass



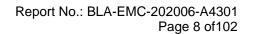


2 GENERAL INFORMATION

Applicant	PICOOC Technology Co., Ltd.	
Address	Room 507, F/5, Wanwei Building,No.5 Industrial Road, NanShan District Shenzhen, China	
Manufacturer	PICOOC Technology Co., Ltd.	
Address	Room 504,F/5, Wanwei Building, No.5 Industrial, NanShan District, Shenzhen, China	
Factory	PICOOC Technology Co., Ltd.	
Address	Room 504,F/5, Wanwei Building, No.5 Industrial , NanShan District, Shenzhen, China	
Product Name	Blood Pressure Meter	
Test Model No.	PA-54	

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	COO5	
Software Version	V1.0	
Operation Frequency:	ncy: 802.11b/g/n(HT20): 2412MHz to 2462MHz	
802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Channel Spacing:	5MHz	
Number of Channels:	annels: 802.11b/g/n(HT20):11	
Antenna Type: PCB antenna		
Antenna Gain:	-1dBi	





4 TEST ENVIRONMENT

Environment Temperature		Voltage
Normal	+25 °C	3.3Vdc

5 TEST MODE

TEST MODE TEST MODE DESCRIPTION TX mode with modulation Keep the EUT in continuously transmitting with modulation mode, Dutycycle>9		
		Remark:Only the data of the worst mode would be recorded in this report.

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)	
Radiated Emission	±4.34dB	
Radiated Emission	±4.24dB	
Radiated Emission	±4.68dB	
AC Power Line Conducted Emission	±3.45dB	

Parameter	Expanded Uncertainty (Confidence of 95%)		
Occupied Channel Bandwidth	±5 %		
RF output power, conducted	±1.5 dB		
Power Spectral Density, conducted	±3.0 dB		
Unwanted Emissions, conducted	±3.0 dB		
Temperature	±3 °C		
Supply voltages	±3 %		
Time	±5 %		
Radiated Emission (30MHz ~ 1000MHz)	±4.35 dB		
Radiated Emission (1GHz ~ 18GHz)	±4.44 dB		



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7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A
AC Adapter (UGREEN)	UGREEN	CD112	N/A	N/A

8 LABORATORY LOCATION

All tests were performed at:

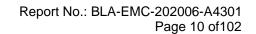
BlueAsia of Technical Services(Shenzhen) Co., Ltd.

IOT Test Centre of BlueAsia

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.





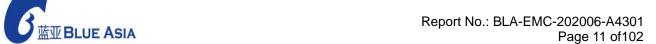
9 TEST INSTRUMENTS LIST

Test Equipment Of Conducted Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Conducted Band Edges Measurement					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Power Spectrum Density					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Conducted Peak Output Power					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due

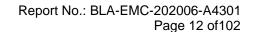


Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	6/10/2018	6/9/2021
Receiver	R&S	ESPI3	101082	4/20/2020	4/19/2021
LISN	R&S	ENV216	3560.6550.15	7/4/2019	7/3/2020
LISN	AT	AT166-2	AKK1806000003	12/17/2019	12/16/2020
EMI software	EZ	EZ-EMC	N/A	N/A	N/A

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021





Spectrum R&S FSP40 100817 7/4/2019 7/3/2020 R&S 4/20/2020 Receiver ESR7 101199 4/19/2021 broadband 00836 Schwarzbeck **VULB9168** 7/14/2018 7/13/2020 P:00227 Antenna 01892 Horn Antenna Schwarzbeck 9120D 7/14/2018 7/13/2020 P:00331 LNPA-0118-45 Amplifier SKET N/A 7/4/2019 7/3/2020 N/A EMI software ΕZ N/A N/A **EZ-EMC** Loop antenna **SCHNARZBECK** FMZB1519B 00102 2/14/2019 2/13/2022 Controller SKET N/A N/A N/A N/A N/A Coaxial Cable BlueAsia BLA-XC-02 N/A N/A Coaxial Cable BlueAsia BLA-XC-03 N/A N/A N/A N/A N/A Coaxial Cable BlueAsia BLA-XC-01 N/A

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021
Spectrum	R&S	FSP40	100817	7/4/2019	7/3/2020
Receiver	R&S	ESR7	101199	4/20/2020	4/19/2021
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	7/14/2018	7/13/2020
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	7/14/2018	7/13/2020
Amplifier	SKET	LNPA-0118-45	N/A	7/4/2019	7/3/2020
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2/14/2019	2/13/2022
Controller	SKET	N/A	N/A	N/A	N/A

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Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A





CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.8				
Test Mode (Pre-Scan)	TX mode with modulation				
Test Mode (Final Test)	TX mode with modulation				
Tester	Eason				
Temperature	24℃				
Humidity	25%				

LIMITS

Limit:

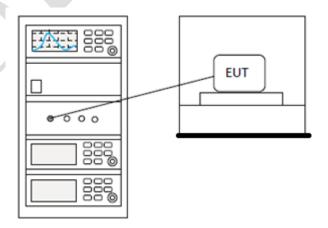
spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the

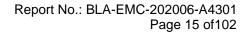
restricted bands, as defined in §15.205(a), must also comply with the radiated

emission limits specified in §15.209(a) (see §15.205(c)).

In any 100 kHz bandwidth outside the frequency band in which the spread

BLOCK DIAGRAM OF TEST SETUP







TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





CONDUCTED BAND EDGES MEASUREMENT

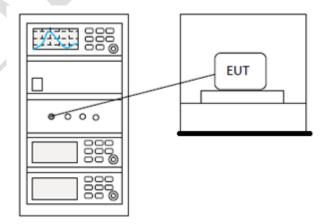
Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.6				
Test Mode (Pre-Scan)	TX mode with modulation				
Test Mode (Final Test)	TX mode with modulation				
Tester	Eason				
Temperature	24°C				
Humidity	55%				

LIMITS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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)).

BLOCK DIAGRAM OF TEST SETUP





TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





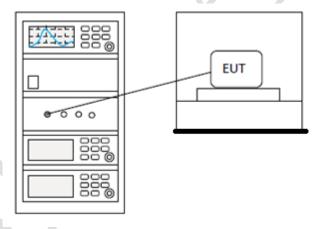
POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX mode with modulation
Test Mode (Final Test)	TX mode with modulation
Tester	Eason
Temperature	24℃
Humidity	55%

LIMITS

Limit: | ≤8dBm in any 3 kHz band during any time interval of continuous transmission

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



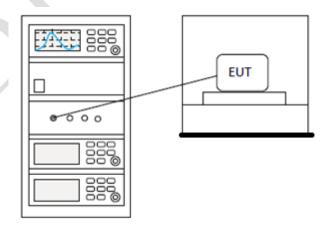
CONDUCTED PEAK OUTPUT POWER

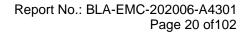
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX mode with modulation
Test Mode (Final Test)	TX mode with modulation
Tester	Eason
Temperature	24℃
Humidity	55%

LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)	
	1 for ≥50 hopping channels	
902-928	0.25 for 25≤ hopping channels <50	
	1 for digital modulation	
	1 for ≥75 non-overlapping hopping channels	
2400-2483.5	0.125 for all other frequency hopping systems	
	1 for digital modulation	
5725 5050	1 for frequency hopping systems and digital	
5725-5850	modulation	

BLOCK DIAGRAM OF TEST SETUP







TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





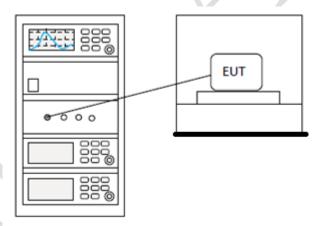
MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX mode with modulation
Test Mode (Final Test)	TX mode with modulation
Tester	Eason
Temperature	24℃
Humidity	55%

LIMITS

Limit: ≥500 kHz

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



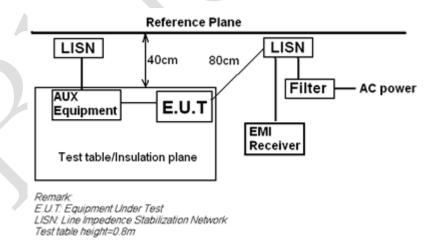
CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 6.2					
Test Mode (Pre-Scan)	TX mode with modulation					
Test Mode (Final Test)	TX mode with modulation					
Tester	Eason					
Temperature	25℃					
Humidity	56%					

LIMITS

Frequency of	Conducted limit(dBµV)					
emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm	of the frequency.					

BLOCK DIAGRAM OF TEST SETUP



PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50?H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

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3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

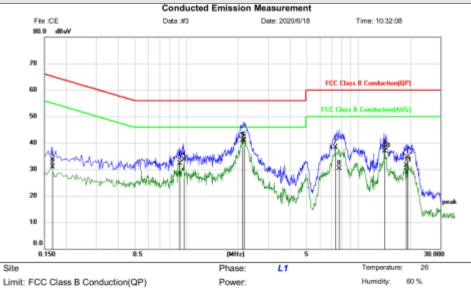
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



TEST DATA

[TestMode: TX mode with modulation]; [Line: Line]

AV 120V 60Hz



Limit: FCC Class B Conduction(QP)

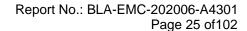
EUT: Blood Pressure Meter

M/N: PA-54 Mode: Wifi tx mode

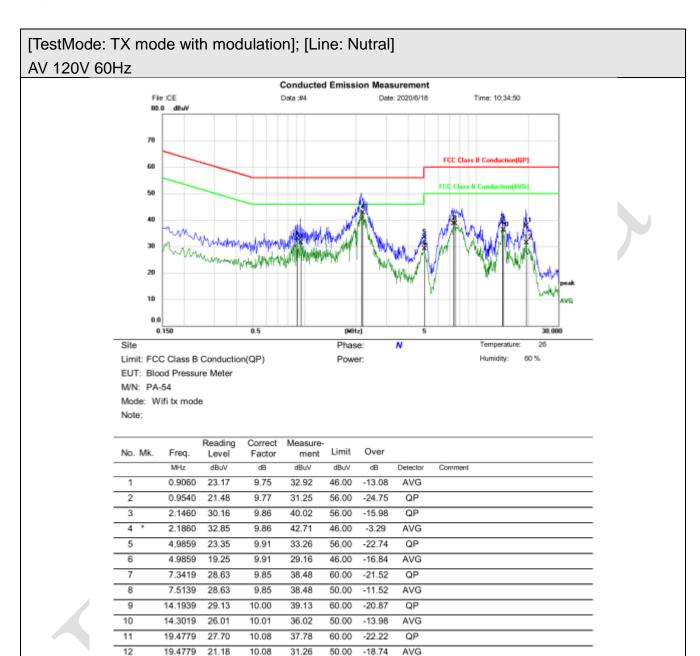
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1660	23.79	9.90	33.69	65.16	-31.47	QP	
2	0.1660	21.07	9.90	30.97	55.16	-24.19	AVG	
3	0.9180	22.55	9.77	32.32	46.00	-13.68	AVG	
4	0.9660	23.94	9.84	33.78	56.00	-22.22	QP	
5 *	2.1140	31.09	9.82	40.91	46.00	-5.09	AVG	
6	2.1619	31.20	9.82	41.02	56.00	-14.98	QP	
7	7.3379	28.37	9.87	38.24	50.00	-11.76	AVG	
8	7.7300	20.38	9.87	30.25	60.00	-29.75	QP	
9	14.1700	28.19	9.96	38.15	60.00	-21.85	QP	
10	14.1700	27.03	9.96	36.99	50.00	-13.01	AVG	
11	18.9338	21.54	10.03	31.57	50.00	-18.43	AVG	
12	19.3739	24.41	10.03	34.44	60.00	-25.56	QP	

Test Result: Pass







Test Result: Pass



ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

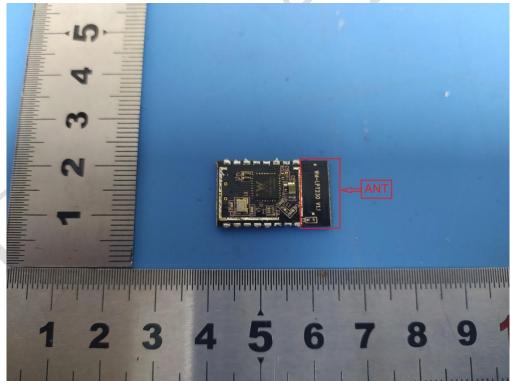
CONCLUSION

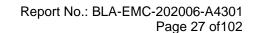
Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.0dBi.







RADIATED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6					
Test Mode (Pre-Scan)	TX mode (SE) below 1GHz;TX mode (SE) Above 1GHz					
Test Mode (Final Test)	TX mode (SE) below 1GHz;TX mode (SE) Above 1GHz					
Tester	Eason					
Temperature	24°C					
Humidity	55%					

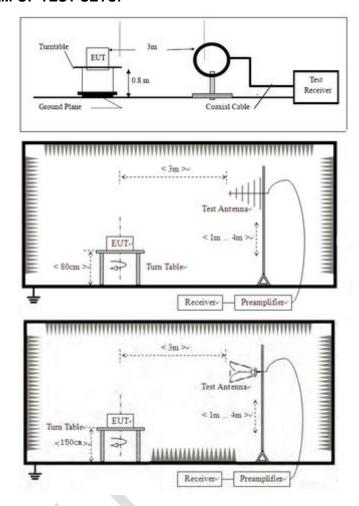
LIMITS

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



BLOCK DIAGRAM OF TEST SETUP



PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 7GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

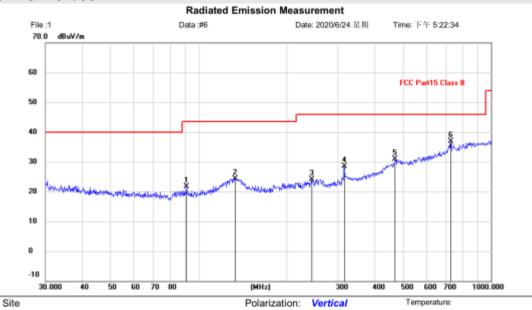
Humidity:



TEST DATA

[TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]

Power:AC120V/60Hz



Limit: FCC Part15 Class B

EUT: Blood Pressure Meter

M/N: PA-54 Mode: TX mode

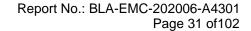
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		91.1745	1.93	19.71	21.64	43.50	-21.86	QP			
2		133.1511	1.29	23.08	24.37	43.50	-19.13	QP			
3		244.2321	1.07	23.01	24.08	46.00	-21.92	QP			
4		314.3765	4.28	24.26	28.54	46.00	-17.46	QP			
5		470.5231	2.48	28.42	30.90	46.00	-15.10	QP			
6	*	729.3582	3.65	33.20	36.85	46.00	-9.15	QP			

Power:

Distance: 3m

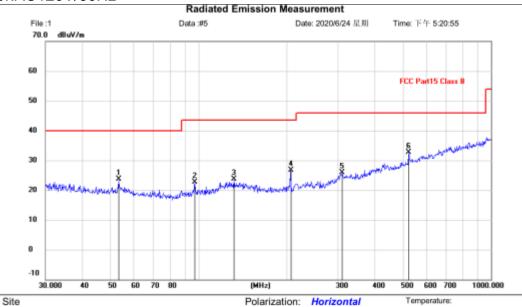
Test Result: Pass





[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]

Power:AC120V/60Hz



Limit: FCC Part15 Class B

EUT: Blood Pressure Meter

M/N: PA-54 Mode: TX mode

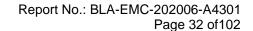
Note:

i oldinzarion.	770772077107		
Power:		Humidity:	%
Distance: 30			

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		53.3179	-0.49	24.12	23.63	40.00	-16.37	QP			
2		97.1148	2.36	20.36	22.72	43.50	-20.78	QP			
3		132.2205	0.57	23.06	23.63	43.50	-19.87	QP			
4		206.3976	6.18	20.50	26.68	43.50	-16.82	QP			
5		309.9977	1.72	24.11	25.83	46.00	-20.17	QP			
6	*	522.7179	3.19	29.51	32.70	46.00	-13.30	QP			

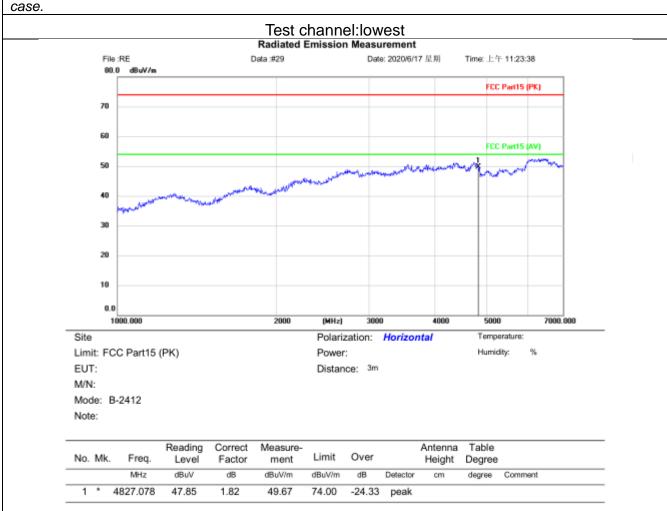
Test Result: Pass



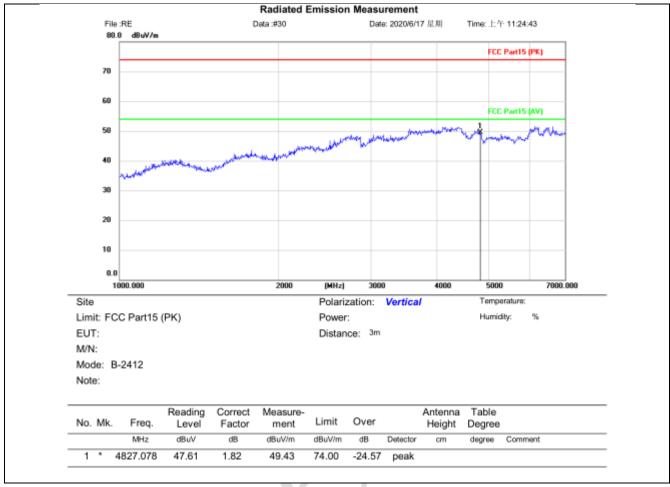


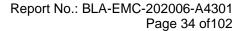
[TestMode: 802.11b]; [Above 1GHz]

Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11b modewhich it is worse

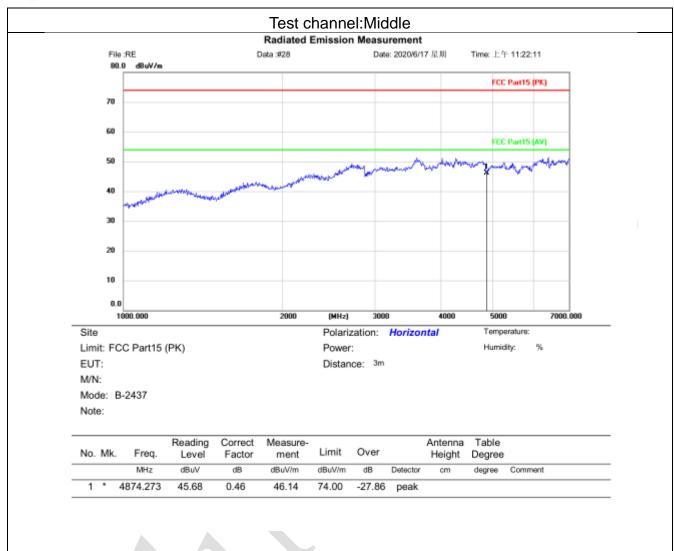


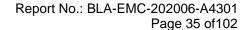




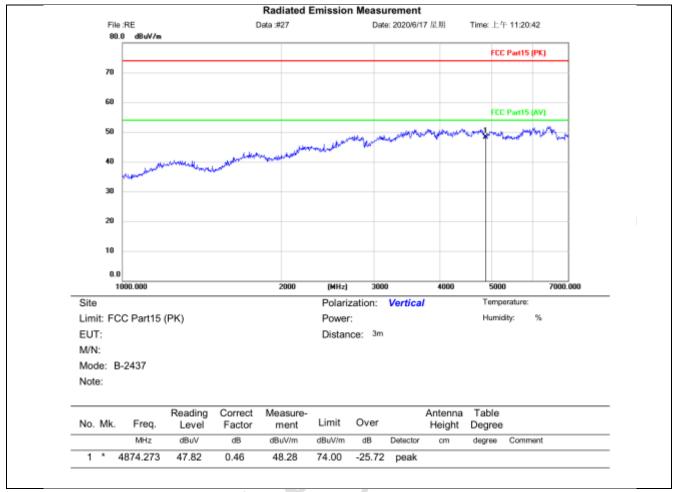


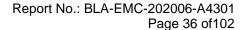




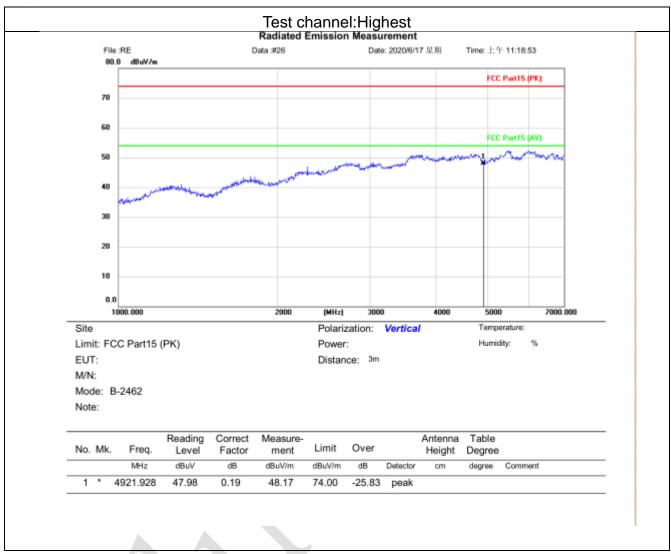






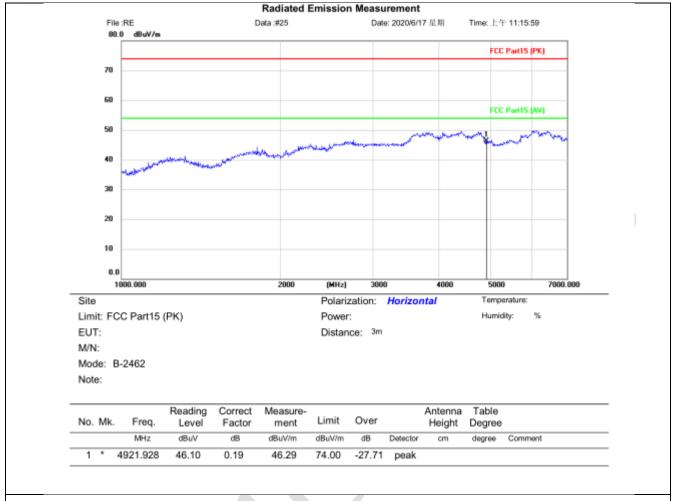


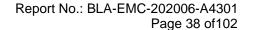




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RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247						
Test Method	ANSI C63.10 (2013) Section 6.10.5						
Test Mode (Pre-Scan)	TX mode with modulation						
Test Mode (Final Test)	TX mode with modulation						
Tester	Eason						
Temperature	23℃						
Humidity	56%						

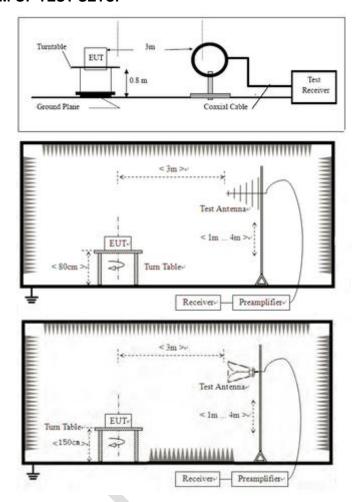
LIMITS

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



BLOCK DIAGRAM OF TEST SETUP



PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



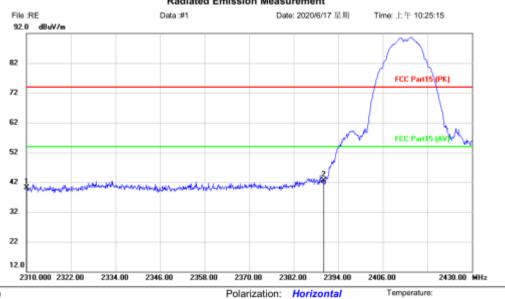
Humidity:



TEST DATA

802.11b:Lowest channel Peak value

Radiated Emission Measurement



Site Limit: FCC Part15 (PK)

EUT:

M/N:

Mode: B-2412-PK

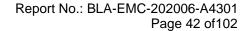
Note:

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2310.000	44.26	-4.20	40.06	74.00	-33.94	peak			
2 *	2390 000	46.34	-3.88	42 46	74.00	-31 54	neak			

Power:

Distance: 3m





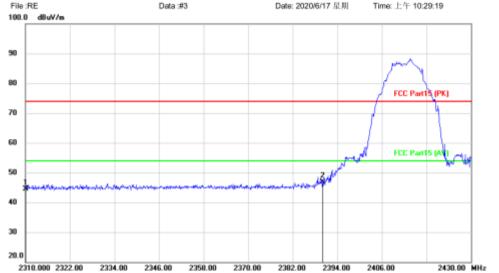
Time: 上午 10:29:19

Temperature:

Humidity:







Polarization:

Distance: 3m

Power:

Vertical

Site

Limit: FCC Part15 (PK)

EUT:

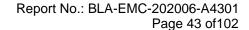
M/N:

Mode: B-2412-PK

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	49.05	-4.49	44.56	74.00	-29.44	peak			
2	*	2390.000	51.18	-4.21	46.97	74.00	-27.03	peak			

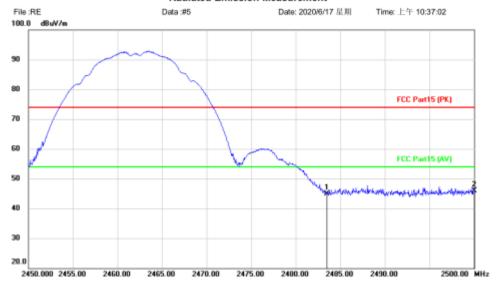






802.11b:Highest channel Peak value

Radiated Emission Measurement



Polarization:

Distance: 3m

Power:

Vertical

Temperature:

Humidity:

Site

Limit: FCC Part15 (PK)

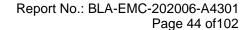
EUT: M/N:

Mode: B-2462-PK

Note:

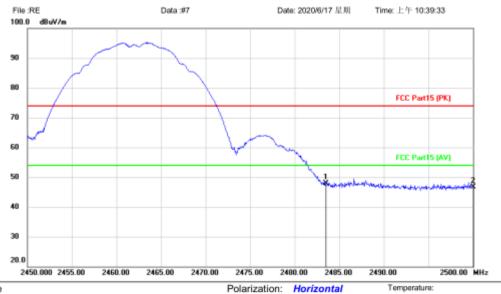
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	48.67	-3.77	44.90	74.00	-29.10	peak			
2	*	2500.000	49.54	-3.70	45.84	74.00	-28.16	peak			











Site

Limit: FCC Part15 (PK)

Power:

Distance: 3m

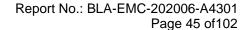
Temperature: Humidity:

EUT: M/N:

Mode: B-2462-PK

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	51.26	-3.38	47.88	74.00	-26.12	peak			
2		2500.000	50.01	-3.30	46.71	74.00	-27.29	peak			



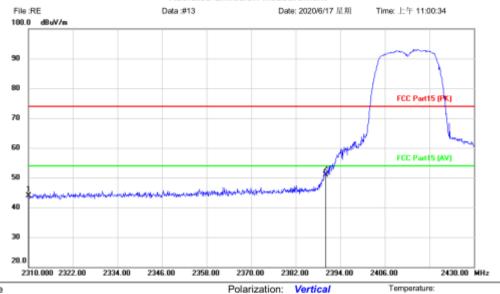
Humidity:



802.11g:Lowest channel

Peak value

Radiated Emission Measurement



Site

Limit: FCC Part15 (PK)

EUT: M/N:

Mode: G-2412-PK

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	48.39	-4.49	43.90	74.00	-30.10	peak			
2	*	2390.000	55.12	-4.21	50.91	74.00	-23.09	peak			

Power:

Distance: 3m

