

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R01-2100292

FCC REPORT

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD

Address of Applicant: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN,

CHINA

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: C21 Pro

Trade mark: OUKITEL

FCC ID: 2ANMU-C21PRO

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 20 May, 2021

Date of Test: 20 May, to 29 Jun., 2021

Date of report issued: 29 Jun., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	29 Jun., 2021	Original

	Covey Chen		
Tested by:		Date:	29 Jun., 2021
-	Test Engineer		

Reviewed by:

| Date: 29 Jun., 2021 | Project Engineer | Project Engin





Contents

			rage
1	C	OVER PAGE	1
2	VI	ERSION	2
3		ONTENTS	
4	TI	EST SUMMARY	4
5	G	ENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	
	5.3	TEST MODE AND TEST SAMPLES PLANS	5
	5.4	MEASUREMENT UNCERTAINTY	5
	5.5	DESCRIPTION OF SUPPORT UNITS	6
	5.6	RELATED SUBMITTAL(S) / GRANT (S)	
	5.7	DESCRIPTION OF CABLE USED	
	5.8	ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	
	5.9	LABORATORY FACILITY	
	5.10	LABORATORY LOCATION	
	5.11	TEST INSTRUMENTS LIST	
6	TI	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	
7	TI	EST SETUP PHOTO	16
Ω	E1	LIT CONSTRUCTIONAL DETAILS	17

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, CHINA
Manufacturer: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD	
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDU ZONE, GUANLAN, LONGHUA, SHENZHEN, CHINA	

5.2 General Description of E.U.T.

Product Name:	Smart Phone	
Model No.:	C21 Pro	
Power supply: Rechargeable Li-ion Polymer Battery DC3.87V, 3950mAh		
AC adapter: Model: PS10UA050K2000UU		
	Input: AC100-240V, 50/60Hz, 0.35A MAX	
	Output: DC 5.0V, 2A	
Test Sample Condition:	est Sample Condition: The test samples were provided in good working order with no visible defect	

5.3 Test Mode and test samples plans

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Description Model		FCC ID/DoC	
DELL	PC OPTIPLEX7070		2J8XSZ2	DoC	
DELL	MONITOR SE2018HR		3M7QPY2	DoC	
DELL	KEYBOARD	EYBOARD KB216d		DoC	
DELL	MOUSE	MS116t1	N/A	DoC	
HP	Printer	HP LaserJet P1007	VNFP409729	DoC	

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type Descript		Description	Length	From	То
	Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter

5.8 Additions to, deviations, or exclusions from the method

Nο

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.





5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Hom Antenna	SCHWARZBECK	DDI IA9 120D	1005	06-17-2021	06-16-2022
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022	
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	D 0 0	06-18-2020	06-17-2021		
LISIN	Ronde & Schwarz	ESH3-Z5	8438621/010	06-18-2021	06-17-2022	
Cable	HP	10503A	N/A	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b		р	

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Test results and Measurement Data

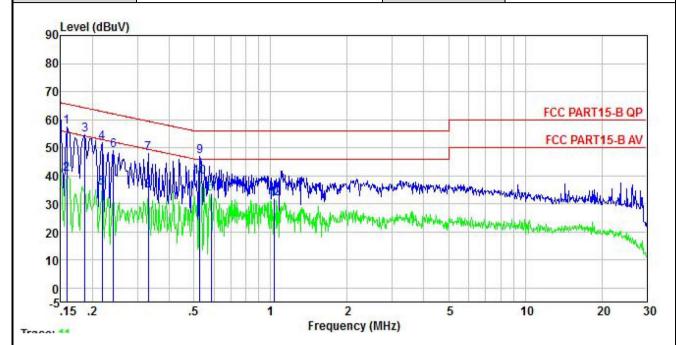
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107					
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz				
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit	(dBµV)			
	, , , ,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
	* Decreases with the logarithm	of the frequency.				
Test setup:	Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	LISN Filter — AC power EMI Receiver				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. 					
Test Instruments:	Refer to section 5.11 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data:

Product name:	Smart Phone	Product model:	C21 Pro
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



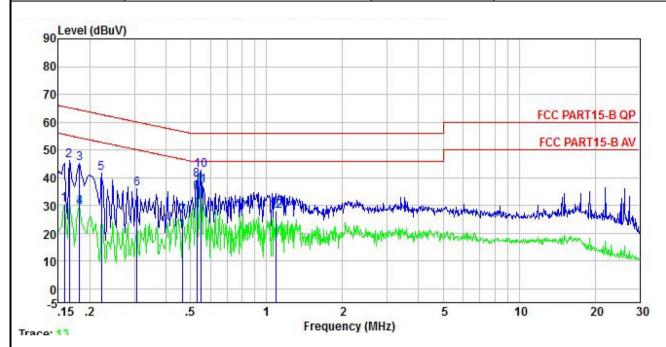
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss		Limit Line	Over Limit	Remark
3	MHz	dBu∜	<u>d</u> B	<u>d</u> B		dBu₹	dBu∜	<u>d</u> B	
1	0.158	47.37	10.12	-0.07	0.01	57.43	65.56	-8.13	QP
2	0.158	30.58	10.12	-0.07	0.01	40.64	55.56	-14.92	Average
3	0.186	44.74	10.14	-0.13	0.02	54.77	64.20	-9.43	QP
4	0.219	41.67	10.16	-0.18	0.03	51.68	62.88	-11.20	QP
5	0.219	25.68	10.16	-0.18	0.03	35.69	52.88	-17.19	Average
6	0.242	38.89	10.17	-0.21	0.01	48.86	62.04	-13.18	QP
7	0.330	37.67	10.23	-0.03	0.02	47.89	59.44	-11.55	QP
8	0.330	24.53	10.23	-0.03	0.02	34.75	49.44	-14.69	Average
1 2 3 4 5 6 7 8 9	0.527	36.96	10.35	-0.36	0.03	46.98	56.00	-9.02	QP
10	0.527	29.56	10.35	-0.36	0.03	39.58	46.00	-6.42	Average
11	0.585	23.41	10.37	-0.37	0.02	33.43	46.00	-12.57	Average
12	1.032	21.00	10.48	0.42	0.06				Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	Smart Phone	Product model:	C21 Pro
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u> </u>	MHz	dBu∀	dB	<u>d</u> B	dB	dBu₹	dBu∀	dB	
1	0.158	20.58	9.90	0.01	0.01	30.50	55.56	-25.06	Average
2	0.166	36.18	9.90	0.01	0.01	46.10	65.16	-19.06	QP
3	0.182	35.12	9.91	0.00	0.01	45.04	64.42	-19.38	QP
4	0.182	19.49	9.91	0.00	0.01	29.41	54.42	-25.01	Average
5	0.222	31.83	9.94	0.00	0.03	41.80	62.74	-20.94	QP
6	0.307	25.96	10.02	0.00	0.03	36.01	60.06	-24.05	QP
7	0.466	15.84	10.18	0.00	0.03	26.05	46.58	-20.53	Average
8	0.529	28.85	10.23	0.03	0.03	39.14		-16.86	
1 2 3 4 5 6 7 8 9	0.529	24.30	10.23	0.03	0.03	34.59	46.00	-11.41	Average
10	0.549	32.47	10.25	0.03	0.02	42.77	56.00	-13.23	QP
11	0.549	26.91	10.25	0.03	0.02	37.21	46.00	-8.79	Average
12	1.094	17.32	10.59	0.09	0.07	28.07			Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.





6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109						
Test Frequency Range:	30MHz to 6000M	30MHz to 6000MHz					
Test site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)						
		Detecto		RBW	VBW	Remark	
Receiver setup:	Frequency 30MHz-1GHz	Quasi-pe		120kHz	300kHz		
		Peak		1MHz	3MHz	Peak Value	
	Above 1GHz	RMS		1MHz	3MHz	Average Value	
Limit:	Frequenc	1	Lim	it (dBuV/m @		Remark	
	30MHz-88N			30.0	,	Quasi-peak Value	
	88MHz-216	MHz		33.5		Quasi-peak Value	
	216MHz-960			36.0		Quasi-peak Value	
	960MHz-10			44.0		Quasi-peak Value	
	Frequenc	СУ	Lim	nit (dBuV/m	@3m)	Remark	
	Above 1G	Hz		54.0		Average Value	
Test setup:	1373.0			74.0		Peak Value	
	Ground Plane Above 1GHz	EUT Gn Test Receiv		Pre- Amptifier C	Antenna Tower Antenna Tower Antenna Tower		
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber (below 1GHz)or 3 meter chamber (above 1GHz). The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 10 meters (below 1GHz) or 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on 						





	the top of a variable-height antenna tower.				
	3. 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.				
	4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.				
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				
	6. 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.				
Test Instruments:	Refer to section 5.11 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded				



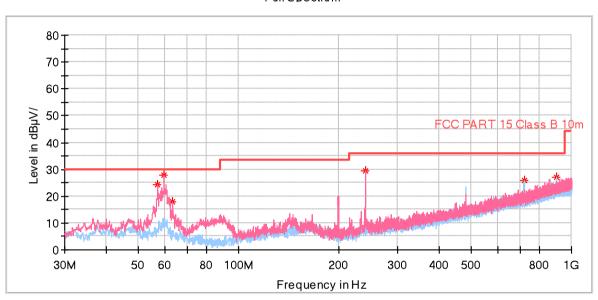


Measurement Data:

Below 1GHz:

Product Name:	Smart Phone	Product Model:	C21 Pro
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

Full Spectrum



¡Critical_Freqs₽

•	Frequency↓ (MHz)∂	MaxPeak↓ (dB 4 V/m)∂	Limit↓ (dB μ	Margin↓ (dB)⊮	Height↓ (cm)⊮	Pol₽	Azimuth↓ (deg)∂	Corr.↓ (dB/m)₄
•	57.063000∢	24.39 ₽	30.00₄⁻	5.61↩	100.0₽	V₽	190.0∉	-16.2₽
	59.585000₽	27.82₽	30.00₽	2.18₽	100.0₽	V₽	190.0₽	-16.3₽
F	63.368000₽	17.74₽	30.00₽	12.26₽	100.0₽	V₽	190.0₽	-17.0↔
F	240.005000₽	29.49₽	36.00₽	6.51₽	100.0₽	V₽	186.0∉	-15.7₽
F	72 0.058000₽	25.68₽	36.00₄⁻	10.32₽	100.0₽	H₽	104.0∉	-4.7₽
	900.187000₽	27.10₽	36.00₄⁻	8.90₽	100.0₽	H₽	15.0₊	-1.2↔

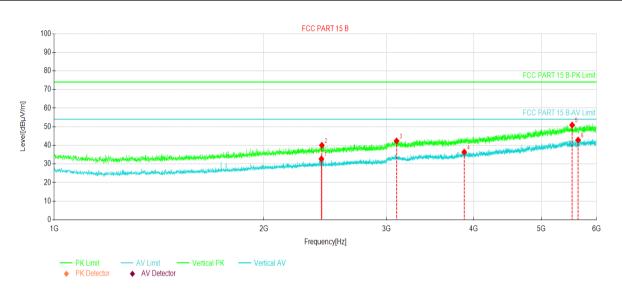
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz:

Product Name:	Smart Phone	Product Model:	C21 Pro
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Suspe	Suspected Data List∂									
NO -	Freq.⊌	Reading⊬	Level⊬	Factor⊬	Limit⊬	Margin⊬	T	Delevitor		
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity∂		
1₽	2418.12	51.46₽	32.70₽	-18.76₽	54.00₽	21.30₽	AV₽	Vertical₽		
2₽	2421.87	58.76₽	40.01₽	-18.75₽	74.00₽	33.99₽	PK₽	Vertical₽		
3₽	3099.37	58.33₽	42.37₽	-15.96₽	74.00₽	31.63₽	PK₽	Vertical₽		
4 0	3876.25	49.95₽	36.35₽	-13.60₽	54.00₽	17.65₽	AV₄⋾	Vertical₽		
5₽	5536.25	56.98₽	50.90₽	-6.08₽	74.00₽	23.10₽	PK₽	Vertical₽		
6₽	5646.25	48.53₽	42.84₽	-5.69₽	54.00₽	11.16₽	AV₽	Vertical₽		

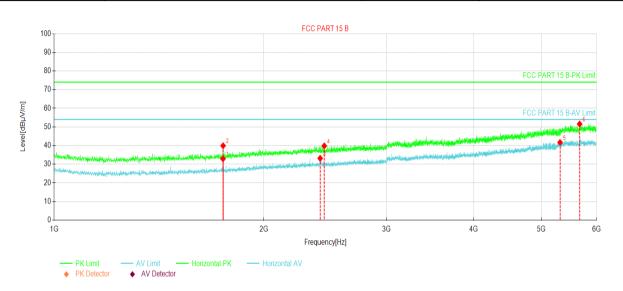
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product Name:	Smart Phone	Product Model:	C21 Pro
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Suspected Data List∂								
NO.₽	Freq.⊌	Reading⊬	Level⊬	Factor⊎	Limit⊬	Margin⊬	Trace∂	Polarity₽
	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂		
1₽	1746.87	54.53₽	32.91₽	-21.62₽	54.00₽	21.09₽	AV₽	Horizontal₽
2₽	1747.50	61.52₽	39.90₽	-21.62₽	74.00₽	34.10₽	PK₽	Horizontal₽
3₽	2408.12	51.95₽	33.17₽	-18.78₽	54.00₽	20.83₽	AV₽	Horizontal₽
4 0	2441.25	58.54₽	39.82₽	-18.72₽	74.00₽	34.18₽	PK₽	Horizontal₽
5₽	5319.37	48.18₽	41.67₽	-6.51₽	54.00₽	12.33₽	AV₽	Horizontal₽
6₽	5674.37	57.01₽	51.56₽	-5.45₽	74.00₽	22.44₽	PK₽	Horizontal₽

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.