

FCC RADIO TEST REPORT

FCC ID: 2ANMU-C23PRO

Product: Smart Phone

Trade Mark: OUKITEL

Model No.: C23 Pro

Family Model: N/A

Report No.: S21032303103004

Issue Date: 16 Apr. 2021

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address : A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, 518XXX China
Manufacturer's Name : SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address : A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, 518XXX China

Product description

Product name : Smart Phone
Model and/or type reference : C23 Pro
Family Model : N/A

Standards : FCC Part15.407

Test procedure ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests 25 Mar. 2021 ~ 15 Apr. 2021

Date of Issue 16 Apr. 2021

Test Result **Pass**

Testing Engineer : 
 (Allen Liu)

Technical Manager : 
 (Jason Chen)

Authorized Signatory : 
 (Alex Li)

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Revision History

[illegible]

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	Spurious Radiated Emissions	PASS	
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS	
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS	
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 3)

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) This device operates with a duty cycle greater than 99%

(3)The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10
and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$

1.3 GENERAL INFORMATION

1.3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone	
Trade Mark	OUKITEL	
Model Name	C23 Pro	
Family Model	N/A	
Model Difference	N/A	
FCC ID	2ANMU-C23PRO	
Product Description	Mode Supported	☒ 802.11a ☒ 802.11n(HT20) ☒ 802.11n(HT40) ☒ 802.11ac(HT20) ☒ 802.11ac(HT40) ☒ 802.11ac(HT80)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☐ U-NII-2A: 5250MHz~5350MHz ☐ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Antenna Type	FPC Antenna
	Antenna Gain	1 dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Ratings	DC 3.85V/5000mAh from battery or DC 5V from Adapter.	
Adapter	Model: TPA-46050200UU Input: 100-240V~50/60Hz 0.3A Output: 5.0V---2000mA	
Battery	DC 3.85V, 5000mAh	
Connecting I/O Port(s)	Please refer to the User's Manual	
HW Version	1911-MB-V1	
SW Version	OUKITEL_C23Pro_EEA_V03_20200314	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

1.3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac20 CH36/CH40/CH48/CH149/CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46CH151/CH159
Mode 4	802.11ac80 CH42/CH155

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac20 CH36/CH40/CH48/CH149/CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46CH151/CH159
Mode 4	802.11ac80 CH42/CH155

For AC Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode

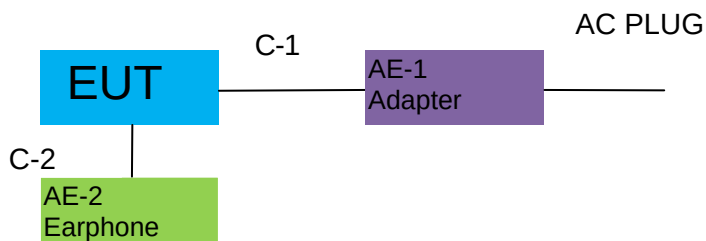
For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac20 CH36/CH40/CH48/CH149/CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46CH151/CH159
Mode 4	802.11ac80 CH42/CH155

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

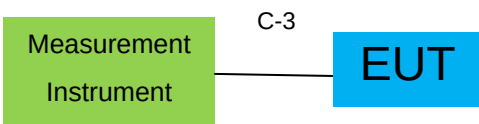
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

1.3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	TPA-46050200UU	N/A	Peripherals
AE-2	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) During the battery power test, the battery is fully charged.

1.3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
8	Amplifier	EMC	EMC051835SE	980246	2020.07.13	2021.07.12	1 year
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2020.05.11	2021.05.10	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN084	2020.07.13	2021.07.12	1 year
11	USB RF Power Sensor	DARE	RPR3006W	15I00041SN084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.07.13	2021.07.12	1 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2021.03.29	2022.03.28	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
18	Low Noise Amplifier	B&Z	BZ-P540-550850-452727	16476-11729	2020.04.15	2021.04.14	1 year
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2020.05.11	2021.05.10	1 year
20	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2020.05.11	2021.05.10	1 year

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2021.05.10	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

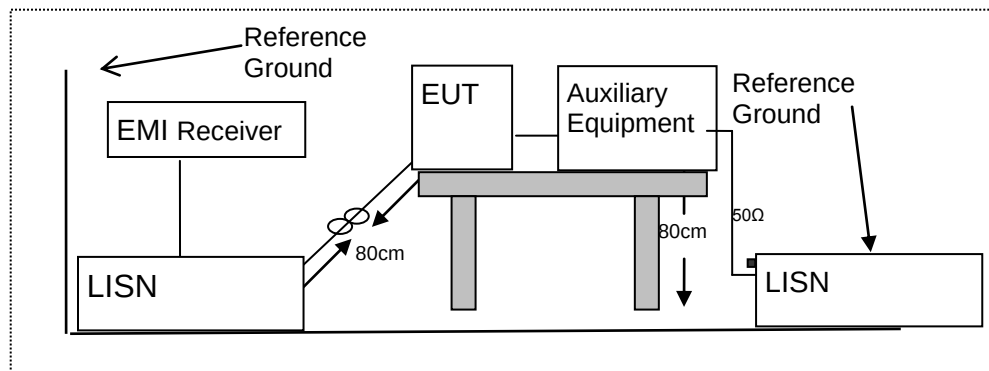
According to FCC Part 15.207(a)

2.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

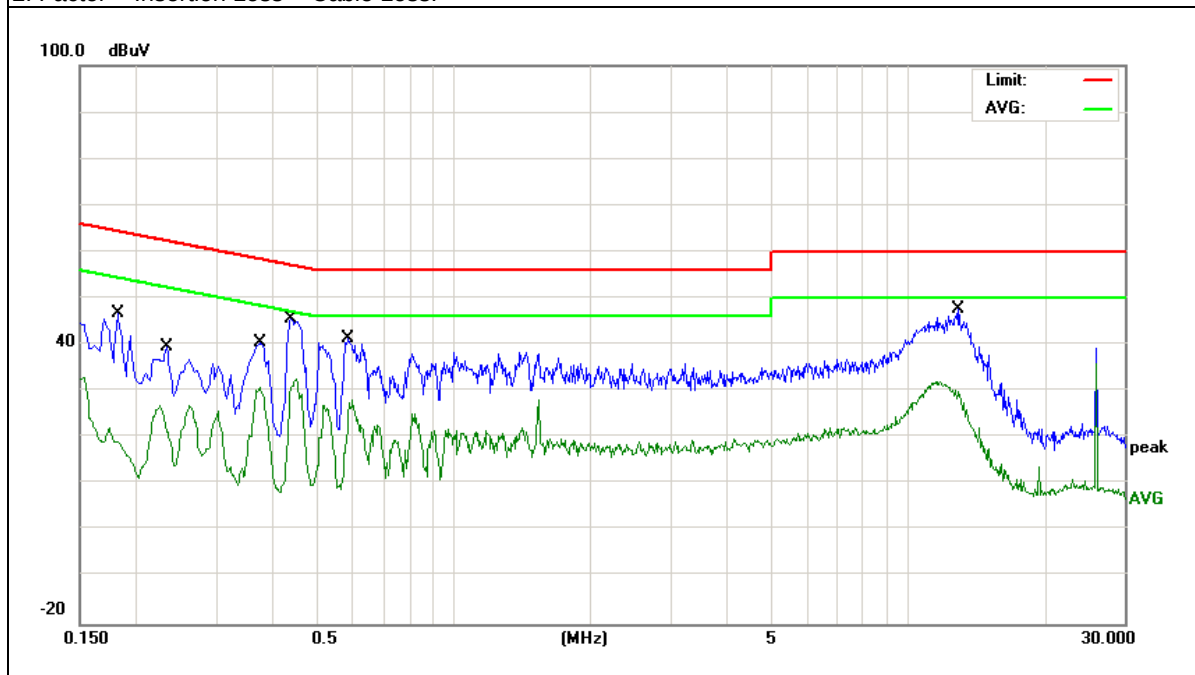
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1819	37.25	9.55	46.80	64.39	-17.59	QP
0.1819	26.81	9.55	36.36	54.39	-18.03	AVG
0.2340	30.05	9.55	39.60	62.30	-22.70	QP
0.2340	20.60	9.55	30.15	52.30	-22.15	AVG
0.3738	30.77	9.55	40.32	58.41	-18.09	QP
0.3738	21.70	9.55	31.25	48.41	-17.16	AVG
0.4380	35.93	9.55	45.48	57.10	-11.62	QP
0.4380	26.10	9.55	35.65	47.10	-11.45	AVG
0.5859	31.92	9.55	41.47	56.00	-14.53	QP
0.5859	21.71	9.55	31.26	46.00	-14.74	AVG
12.9259	38.01	9.74	47.75	60.00	-12.25	QP
12.9259	27.71	9.74	37.45	50.00	-12.55	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

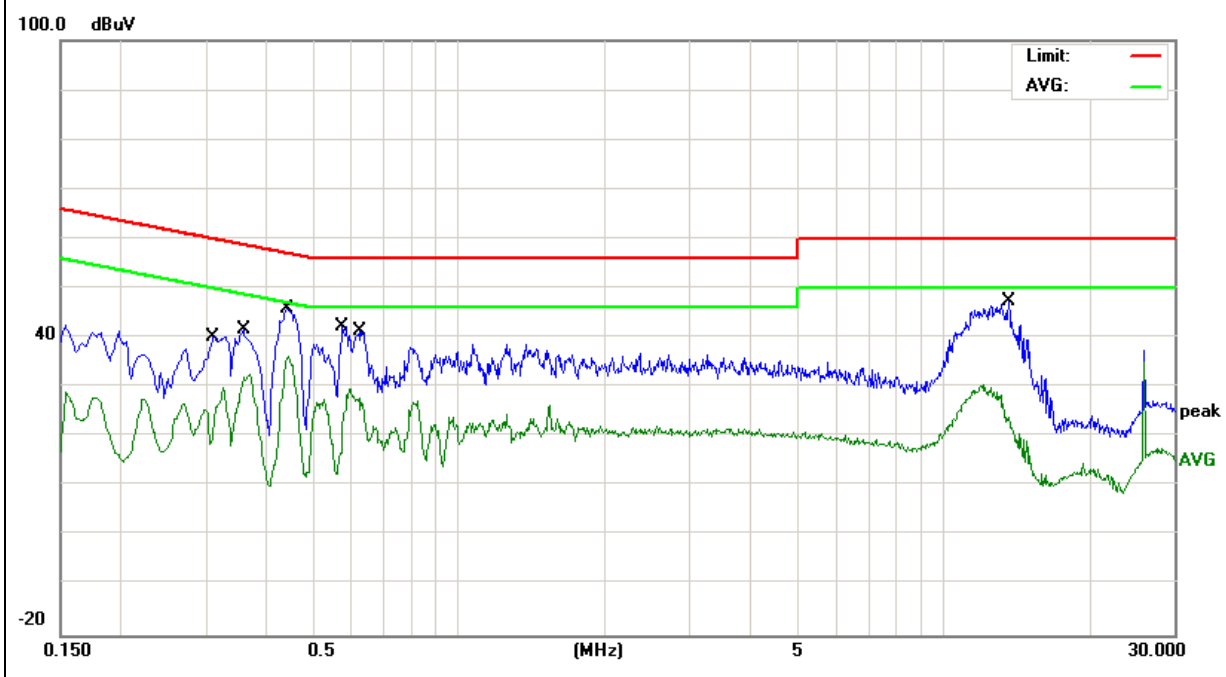


EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3099	30.72	9.53	40.25	59.97	-19.72	QP
0.3099	20.83	9.53	30.36	49.97	-19.61	AVG
0.3579	32.00	9.54	41.54	58.78	-17.24	QP
0.3579	21.71	9.54	31.25	48.78	-17.53	AVG
0.4420	36.23	9.54	45.77	57.02	-11.25	QP
0.4420	25.81	9.54	35.35	47.02	-11.67	AVG
0.5738	32.84	9.54	42.38	56.00	-13.62	QP
0.5738	23.12	9.54	32.66	46.00	-13.34	AVG
0.6219	31.71	9.54	41.25	56.00	-14.75	QP
0.6219	22.31	9.54	31.85	46.00	-14.15	AVG
13.6578	37.58	9.73	47.31	60.00	-12.69	QP
13.6578	28.15	9.73	37.88	50.00	-12.12	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

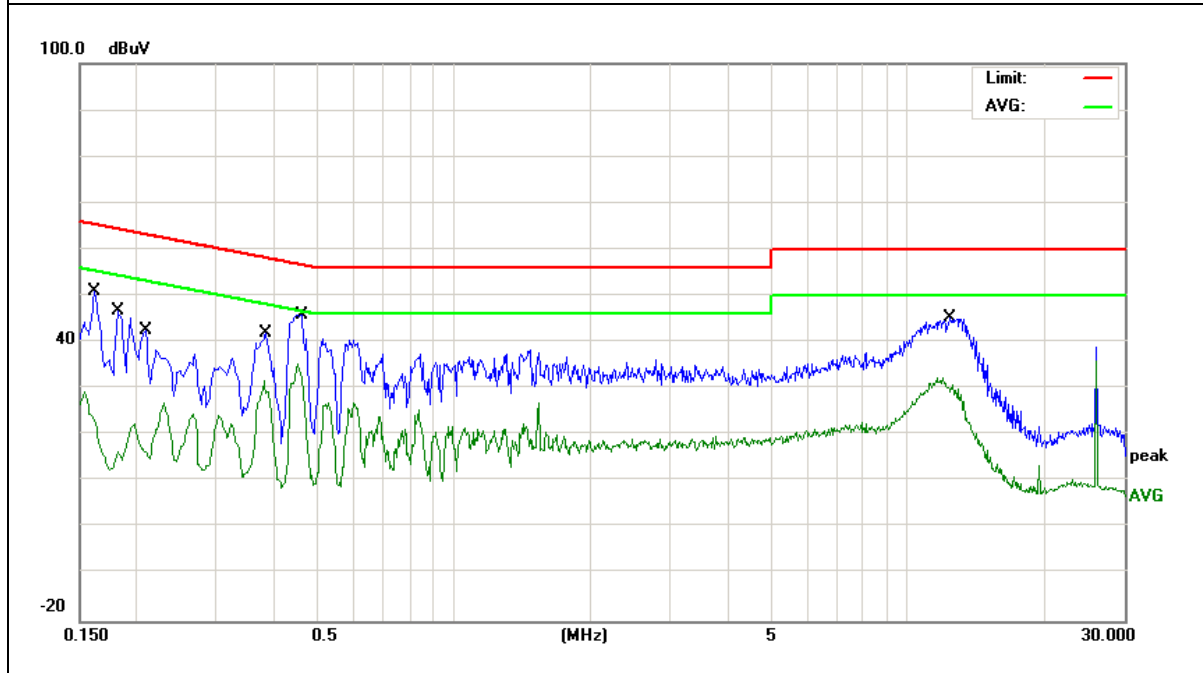


EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	41.32	9.56	50.88	65.36	-14.48	QP
0.1620	30.66	9.56	40.22	55.36	-15.14	AVG
0.1819	37.19	9.55	46.74	64.39	-17.65	QP
0.1819	26.76	9.55	36.31	54.39	-18.08	AVG
0.2099	33.01	9.55	42.56	63.21	-20.65	QP
0.2099	23.03	9.55	32.58	53.21	-20.63	AVG
0.3860	32.36	9.55	41.91	58.15	-16.24	QP
0.3860	22.19	9.55	31.74	48.15	-16.41	AVG
0.4620	36.45	9.55	46.00	56.66	-10.66	QP
0.4620	27.14	9.55	36.69	46.66	-9.97	AVG
12.4379	35.38	9.73	45.11	60.00	-14.89	QP
12.4379	26.14	9.73	35.87	50.00	-14.13	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

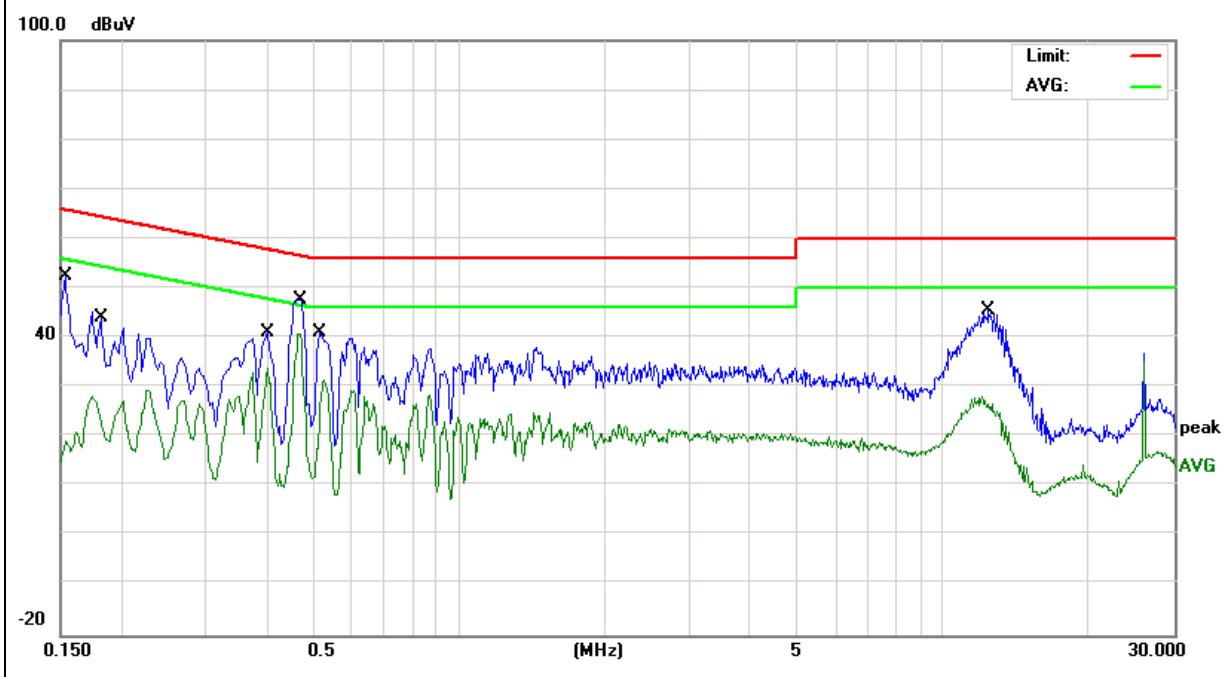


EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	42.91	9.55	52.46	65.78	-13.32	QP
0.1539	33.00	9.55	42.55	55.78	-13.23	AVG
0.1819	34.59	9.54	44.13	64.39	-20.26	QP
0.1819	24.79	9.54	34.33	54.39	-20.06	AVG
0.4020	31.37	9.54	40.91	57.81	-16.90	QP
0.4020	20.72	9.54	30.26	47.81	-17.55	AVG
0.4699	38.18	9.54	47.72	56.52	-8.80	QP
0.4699	27.91	9.54	37.45	46.52	-9.07	AVG
0.5180	31.63	9.54	41.17	56.00	-14.83	QP
0.5180	22.11	9.54	31.65	46.00	-14.35	AVG
12.4259	35.91	9.72	45.63	60.00	-14.37	QP
12.4259	25.72	9.72	35.44	50.00	-14.56	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(9): 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)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	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			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

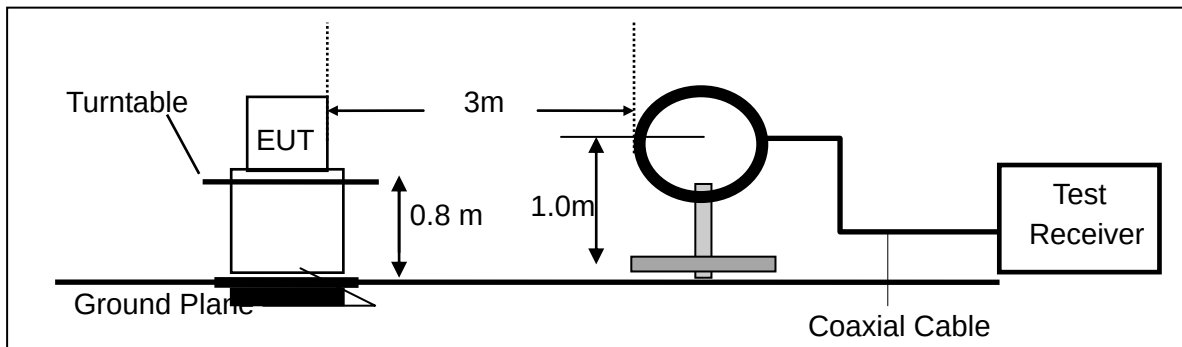
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.2.3 Measuring Instruments

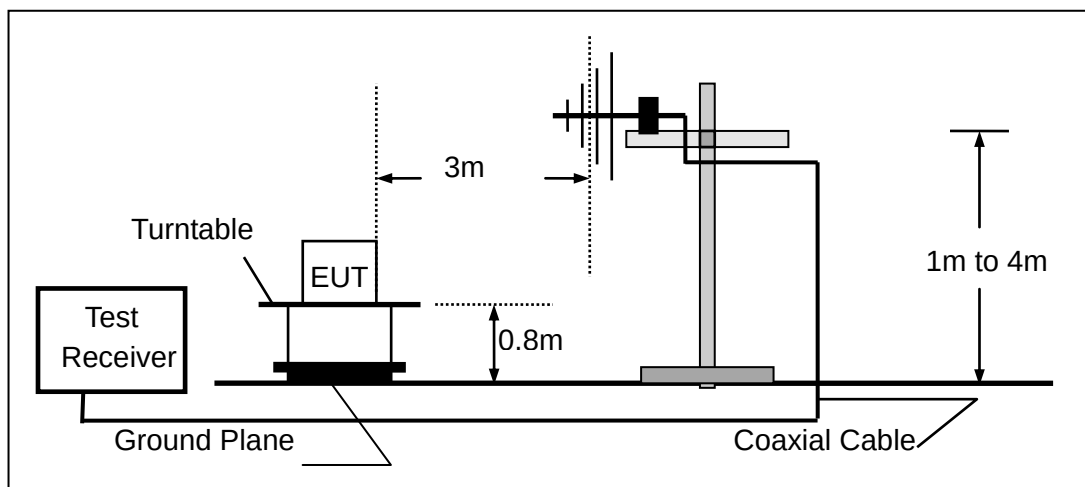
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 Test Configuration

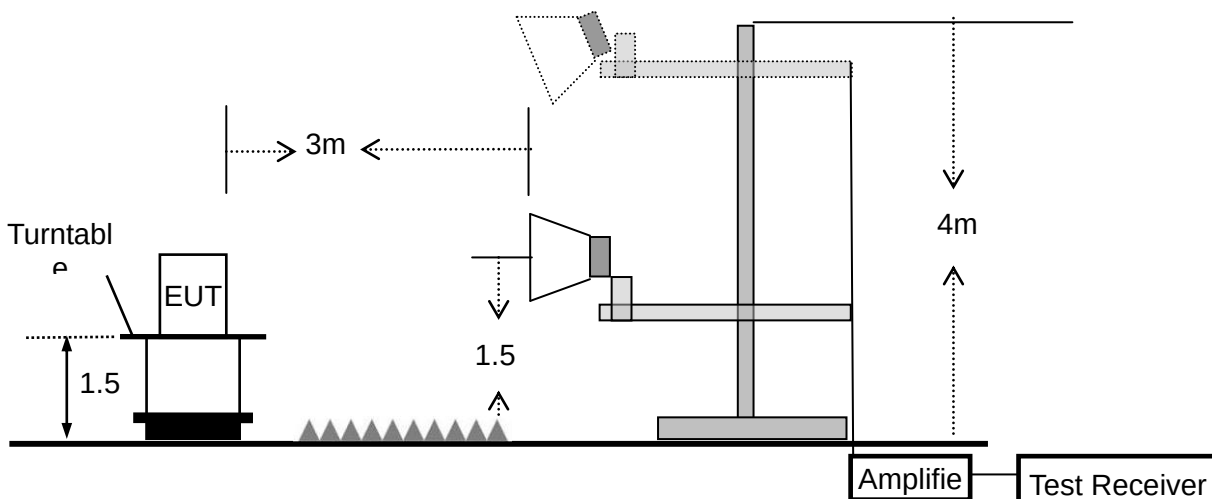
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



2.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.2.6 TEST RESULTS (9KHz – 30 MHz)

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

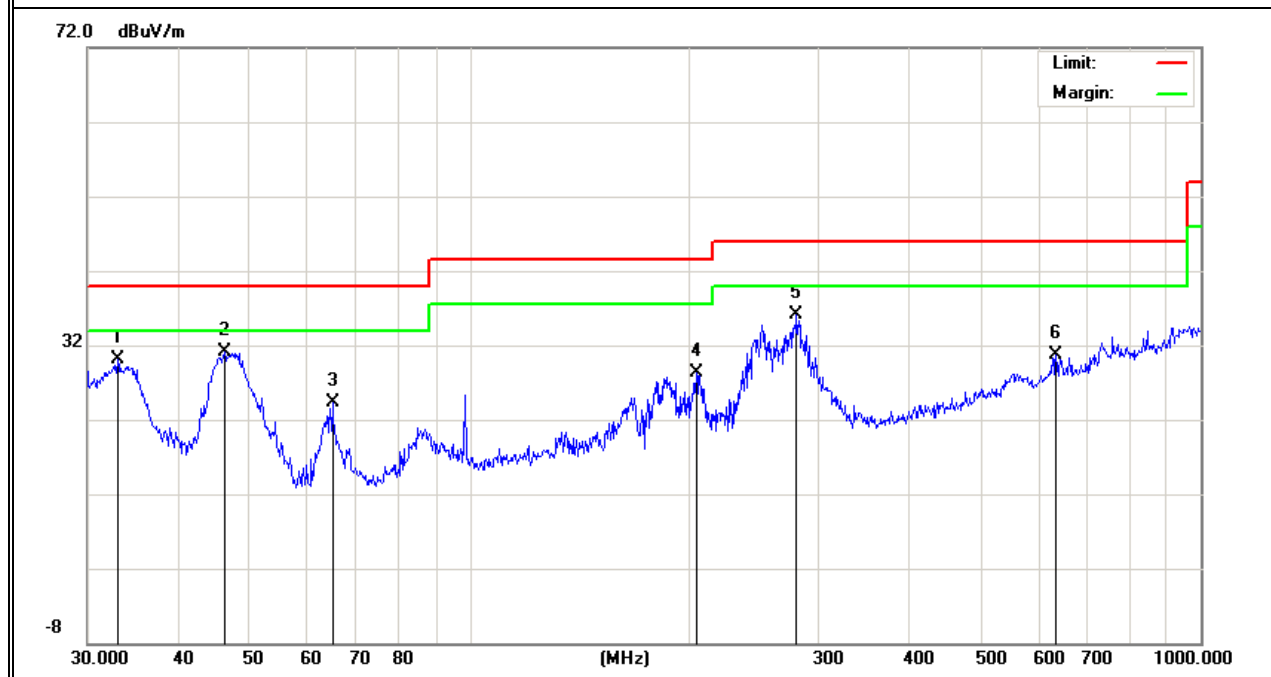
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	23.2 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX(5.2G)- 802.11a(Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.9791	12.62	17.56	30.18	40.00	-9.82	QP
V	46.1779	20.36	10.69	31.05	40.00	-8.95	QP
V	64.8864	18.10	6.21	24.31	40.00	-15.69	QP
V	204.2377	18.60	9.70	28.30	43.50	-15.20	QP
V	280.0237	20.13	16.00	36.13	46.00	-9.87	QP
V	633.9073	8.27	22.46	30.73	46.00	-15.27	QP

Remark:

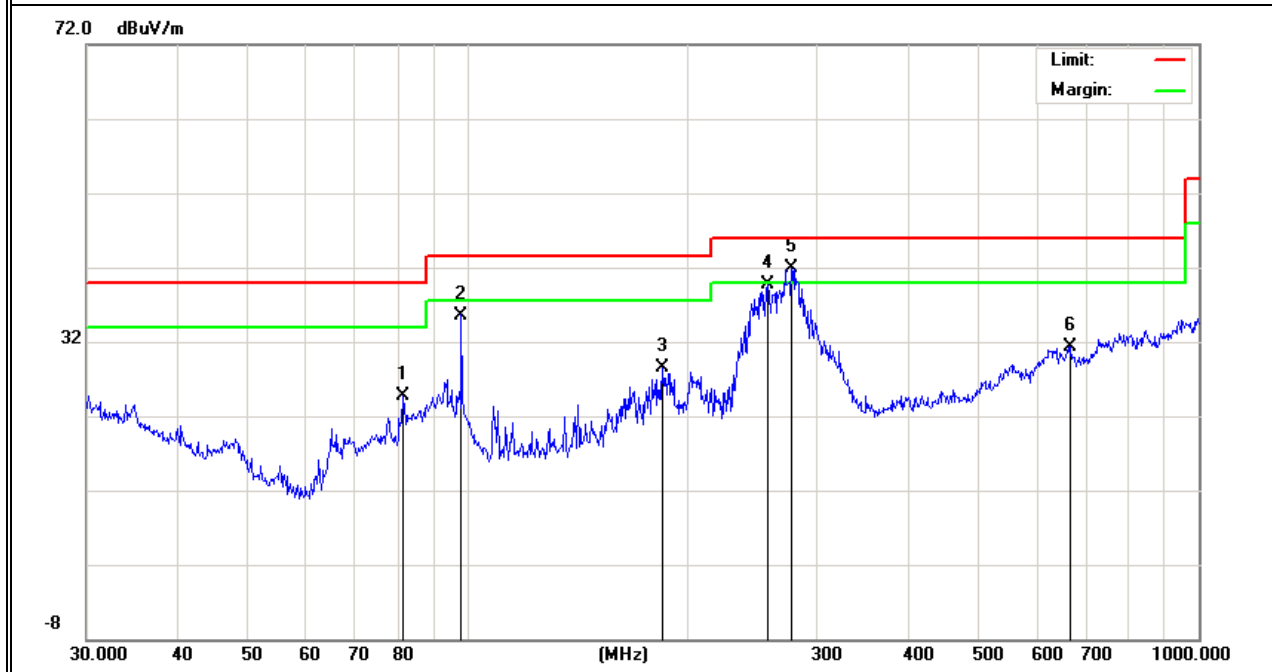
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	81.2116	16.48	8.15	24.63	40.00	-15.37	QP
H	97.7983	25.08	10.52	35.60	43.50	-7.90	QP
H	184.4898	18.87	9.71	28.58	43.50	-14.92	QP
H	256.5210	25.56	14.20	39.76	46.00	-6.24	QP
H	277.0935	26.76	15.13	41.89	46.00	-4.11	QP
H	668.1423	8.90	22.45	31.35	46.00	-14.65	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



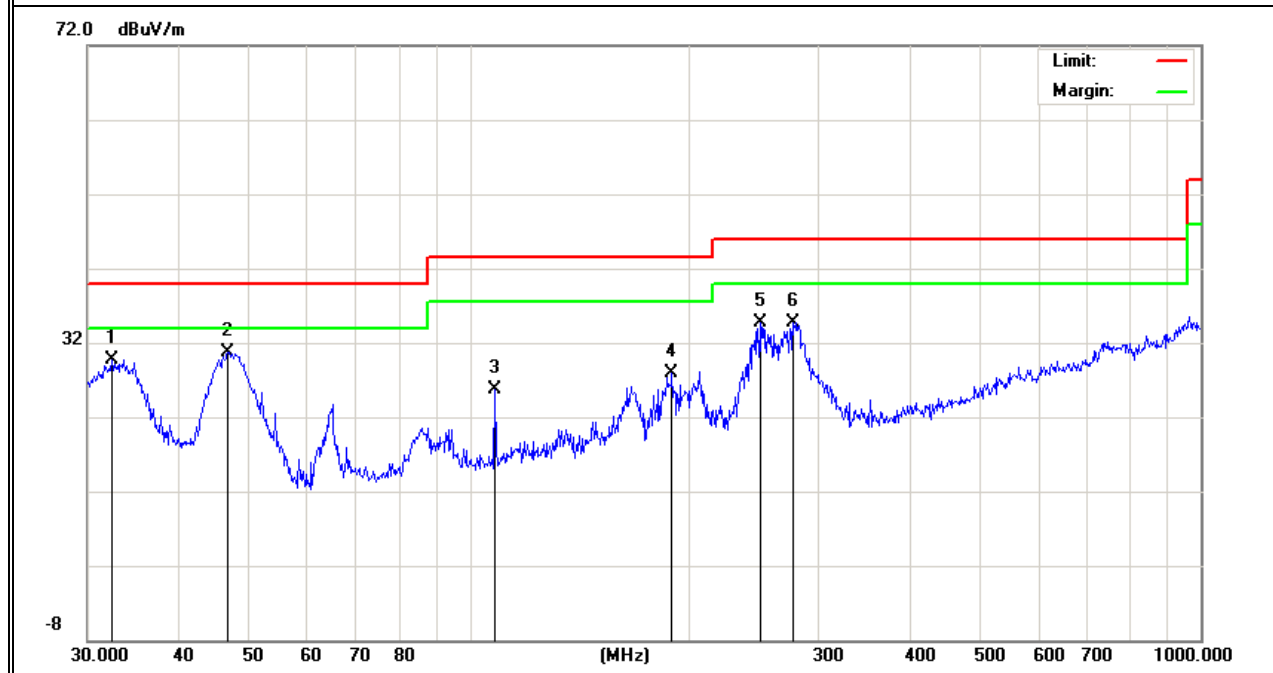
Note: All modes have been tested, just the the worst mode has been recorded in the report.

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	23.2 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX(5.8G)- 802.11a(Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.4059	12.06	17.69	29.75	40.00	-10.25	QP
V	46.6664	20.06	10.73	30.79	40.00	-9.21	QP
V	108.2667	14.63	11.17	25.80	43.50	-17.70	QP
V	189.0742	18.63	9.29	27.92	43.50	-15.58	QP
V	249.4250	21.22	13.39	34.61	46.00	-11.39	QP
V	277.0935	19.55	15.13	34.68	46.00	-11.32	QP

Remark:

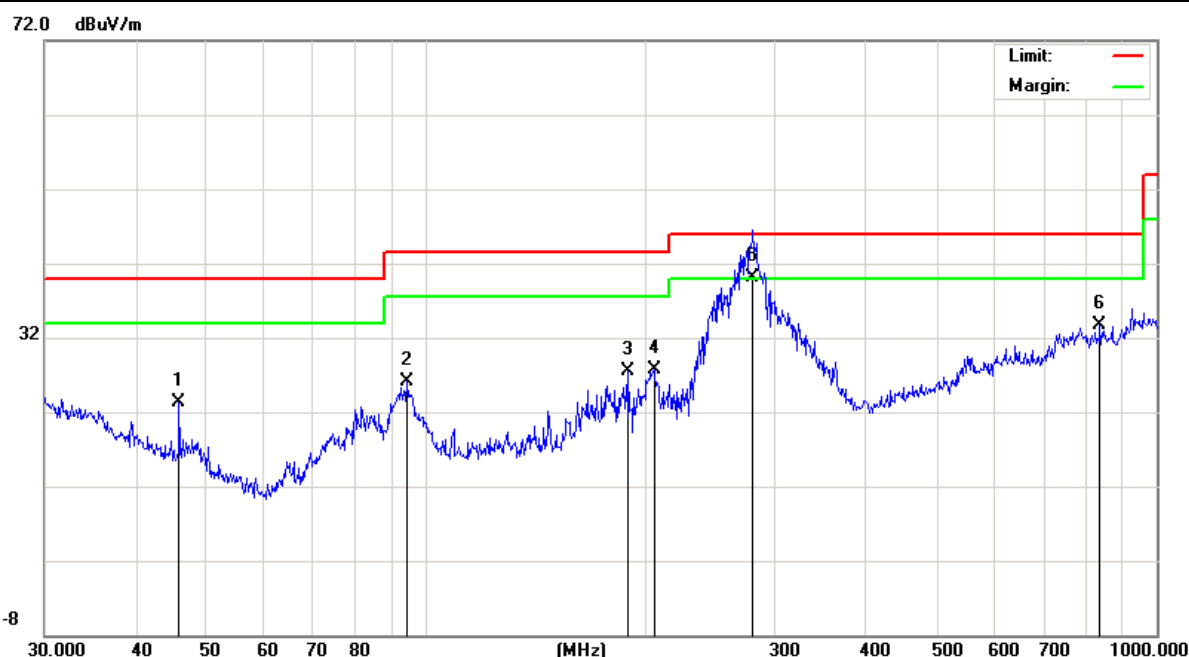
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	45.8553	12.47	10.76	23.23	40.00	-16.77	QP
H	94.0979	15.68	10.43	26.11	43.50	-17.39	QP
H	189.0742	18.24	9.29	27.53	43.50	-15.97	QP
H	204.9551	17.94	9.81	27.75	43.50	-15.75	QP
H	280.0237	24.10	16.00	40.10	46.00	-5.90	QP
H	836.2443	7.68	25.95	33.63	46.00	-12.37	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Note: All modes have been tested, just the the worst mode has been recorded in the report.

2.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX(5.2G) - 802.11a_5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.68	61.56	5.94	35.40	44.00	58.90	74.00	-15.10	Pk
Vertical	3694.68	42.38	5.94	35.40	44.00	39.72	54.00	-14.28	AV
Vertical	10360.73	58.53	8.46	39.75	44.50	62.24	68.20	-5.96	Pk
Vertical	15540.80	61.06	10.12	38.80	44.10	65.88	74.00	-8.12	Pk
Vertical	15540.80	39.74	10.12	38.80	42.70	45.96	54.00	-8.04	AV
Horizontal	3713.58	63.44	5.94	35.18	44.00	60.56	74.00	-13.44	Pk
Horizontal	3713.58	43.84	5.94	35.18	44.00	40.96	54.00	-13.04	AV
Horizontal	10361.05	58.93	8.46	38.71	44.50	61.60	68.20	-6.60	Pk
Horizontal	15540.96	57.51	10.12	38.38	44.10	61.91	74.00	-12.09	Pk
Horizontal	15540.96	40.97	10.12	38.38	44.10	45.37	54.00	-8.63	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3624.71	58.68	6.48	36.35	44.05	57.46	74.00	-16.54	Pk
Vertical	3624.71	43.10	6.48	36.35	44.05	41.88	54.00	-12.12	AV
Vertical	10400.67	60.00	8.47	37.88	44.51	61.84	68.20	-6.36	Pk
Vertical	15600.73	60.22	10.12	38.80	44.10	65.04	74.00	-8.96	Pk
Vertical	15600.73	39.67	10.12	38.80	42.70	45.89	54.00	-8.11	AV
Horizontal	4202.72	58.36	6.48	36.37	44.05	57.16	74.00	-16.84	Pk
Horizontal	4202.72	45.03	6.48	36.37	44.05	43.83	54.00	-10.17	AV
Horizontal	10400.72	61.50	8.47	38.64	44.50	64.11	68.20	-4.09	Pk
Horizontal	15601.09	60.08	10.12	38.38	44.10	64.48	74.00	-9.52	Pk
Horizontal	15601.09	41.29	10.12	38.38	44.10	45.69	54.00	-8.31	AV

High Channel (5240 MHz)-Above 1G

Vertical	4598.28	64.02	7.10	37.24	43.50	64.86	74.00	-9.14	Pk
Vertical	4598.28	43.42	7.10	37.24	43.50	44.26	54.00	-9.74	AV
Vertical	10480.81	60.23	8.46	37.68	44.50	61.87	68.20	-6.33	Pk
Vertical	15720.73	61.61	10.12	38.80	44.10	66.43	74.00	-7.57	Pk
Vertical	15720.73	40.39	10.12	38.80	42.70	46.61	54.00	-7.39	AV
Horizontal	4589.84	61.30	7.10	37.24	43.50	62.14	74.00	-11.86	Pk
Horizontal	4589.84	41.57	7.10	37.24	43.50	42.41	54.00	-11.59	AV
Horizontal	10481.17	62.26	8.46	38.57	44.50	64.79	68.20	-3.41	Pk
Horizontal	15720.76	59.83	10.12	38.38	44.10	64.23	74.00	-9.77	Pk
Horizontal	15720.76	43.15	10.12	38.38	44.10	47.55	54.00	-6.45	AV

Note:"802.11a (5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.8G) -- 802.11a _5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	5123.09	64.65	5.94	35.40	44.00	61.99	74.00	-12.01	Pk
Vertical	5123.09	46.36	5.94	35.40	44.00	43.70	54.00	-10.30	AV
Vertical	11491.18	60.98	8.46	39.75	44.50	64.69	74.00	-9.31	Pk
Vertical	11491.18	44.23	8.46	39.75	44.50	47.94	54.00	-6.06	AV
Vertical	17236.23	52.96	10.12	38.80	44.10	57.78	68.20	-10.42	Pk
Horizontal	5167.18	60.46	5.94	35.18	44.00	57.58	68.20	-10.62	Pk
Horizontal	11491.05	59.91	8.46	38.71	44.50	62.58	74.00	-11.42	Pk
Horizontal	11491.05	43.31	8.46	38.71	44.50	45.98	54.00	-8.02	AV
Horizontal	17236.05	52.30	10.12	38.38	44.10	56.70	68.20	-11.50	Pk
middle Channel (5785 MHz)-Above 1G									
Vertical	5433.98	63.57	6.48	36.35	44.05	62.35	74.00	-11.65	Pk
Vertical	5433.98	43.92	6.48	36.35	44.05	42.70	54.00	-11.30	AV
Vertical	11570.99	61.43	8.47	37.88	44.51	63.27	74.00	-10.73	Pk
Vertical	11570.99	43.99	8.47	37.88	44.51	45.83	54.00	-8.17	AV
Vertical	17356.42	56.69	10.12	38.80	44.10	61.51	68.20	-6.69	Pk
Horizontal	4867.18	60.88	6.48	36.37	44.05	59.68	74.00	-14.32	Pk
Horizontal	4867.18	43.73	6.48	36.37	44.05	42.53	54.00	-11.47	AV
Horizontal	11570.86	63.62	8.47	38.64	44.50	66.23	74.00	-7.77	Pk
Horizontal	11570.86	44.86	8.47	38.64	44.50	47.47	54.00	-6.53	AV
Horizontal	17356.07	57.45	10.12	38.38	44.10	61.85	68.20	-6.35	Pk

High Channel (5825 MHz)-Above 1G

Vertical	5243.90	62.67	7.10	37.24	43.50	63.51	68.20	-4.69	Pk
Vertical	11651.84	62.38	8.46	37.68	44.50	64.02	74.00	-9.98	Pk
Vertical	11651.84	43.77	8.46	37.68	44.50	45.41	54.00	-8.59	AV
Vertical	17473.16	61.24	10.12	38.80	44.10	66.06	68.20	-2.14	Pk
Horizontal	5284.71	60.90	7.10	37.24	43.50	61.74	68.20	-6.46	Pk
Horizontal	11652.09	60.95	8.46	38.57	44.50	63.48	74.00	-10.52	Pk
Horizontal	11652.09	42.50	8.46	38.57	44.50	45.03	54.00	-8.97	AV
Horizontal	17474.10	58.86	10.12	38.38	44.10	63.26	68.20	-4.94	Pk

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

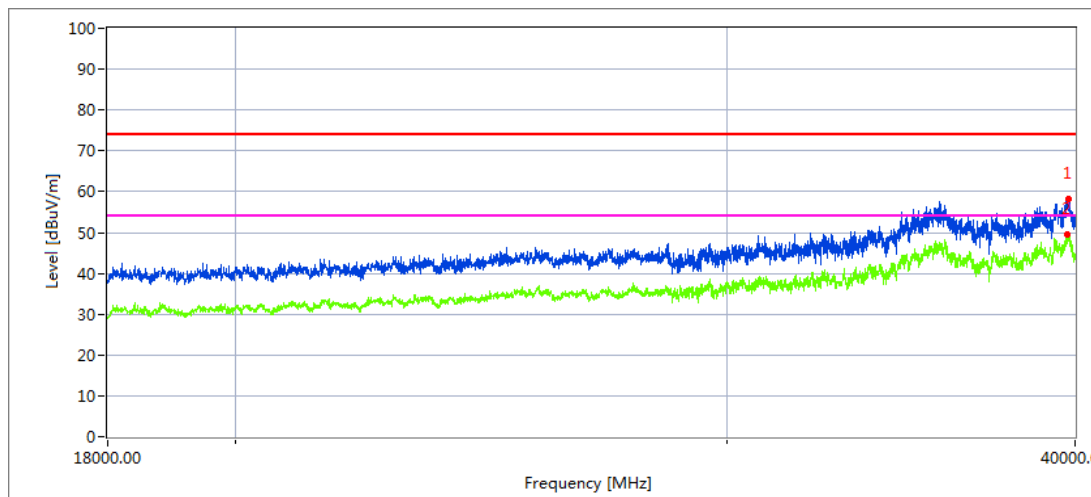
2.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz; TX (5.8G)-802.11n20 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

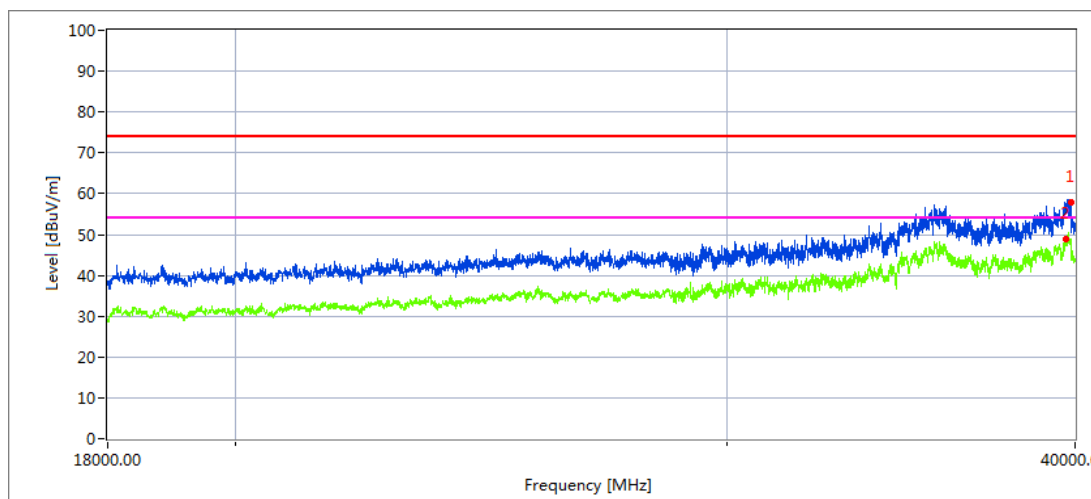
Low Channel (5180 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39769.12	38.62	20.09	44.07	43.48	59.3	68.2	8.9	Peak
39767.04	26.92	20.09	44.04	43.48	47.57	54	6.43	AVG

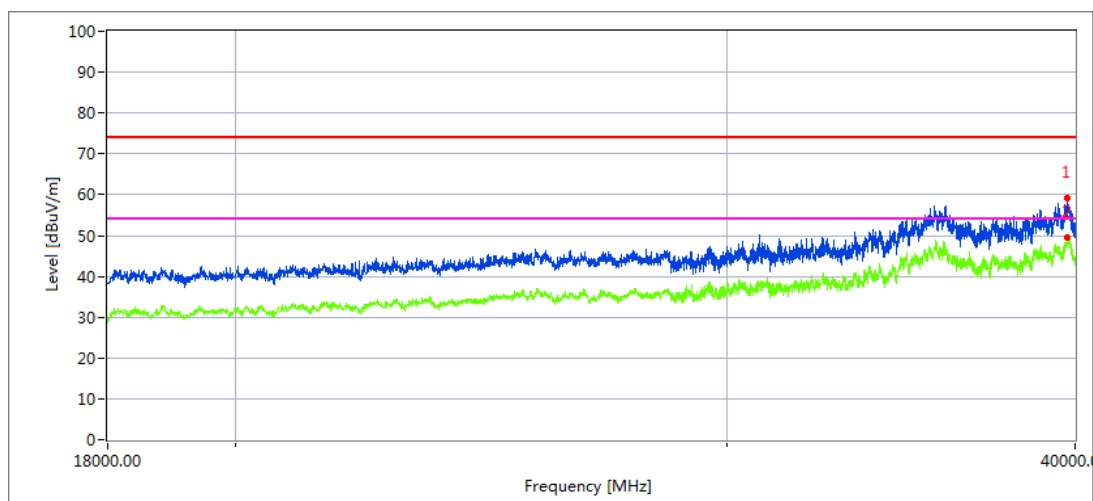
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39769.516	35.62	20.09	44.07	43.48	56.3	68.2	11.9	Peak
39769.335	26.92	20.09	44.04	43.48	47.57	54	6.43	AVG

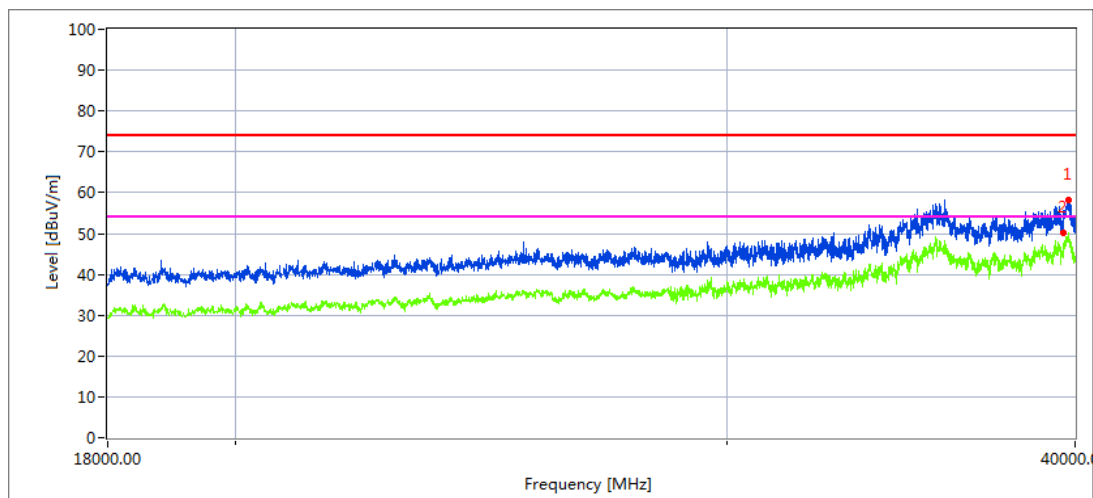
High Channel (5240 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
35628.1	40.39	19.11	42.73	44.61	57.62	68.2	10.58	Peak
35596.716	30.96	19.11	42.73	44.61	48.19	54	5.81	AVG

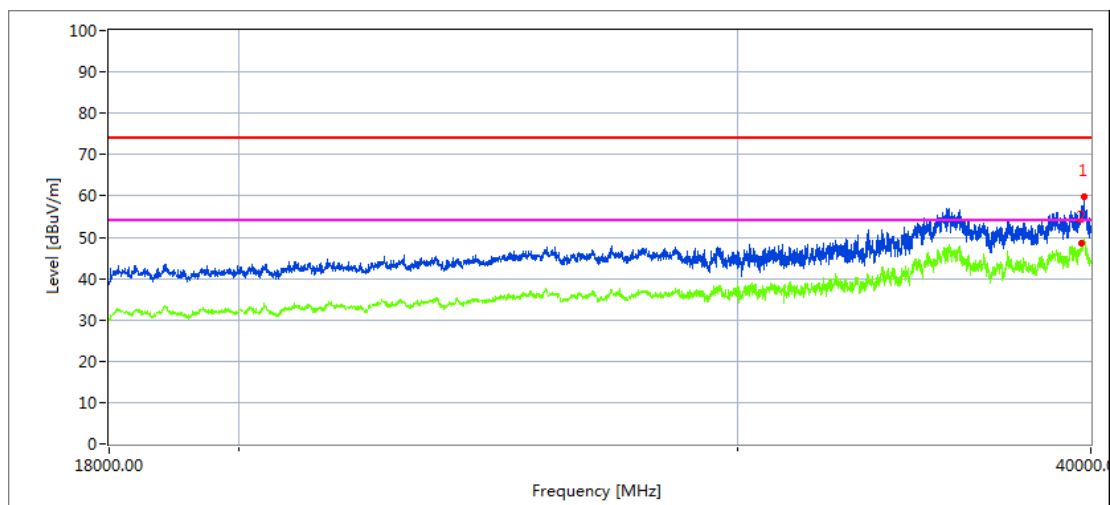
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39769.446	36.72	20.09	44.07	43.48	57.4	68.2	10.8	Peak
39769.446	24.95	20.09	44.04	43.48	45.6	54	8.4	AVG

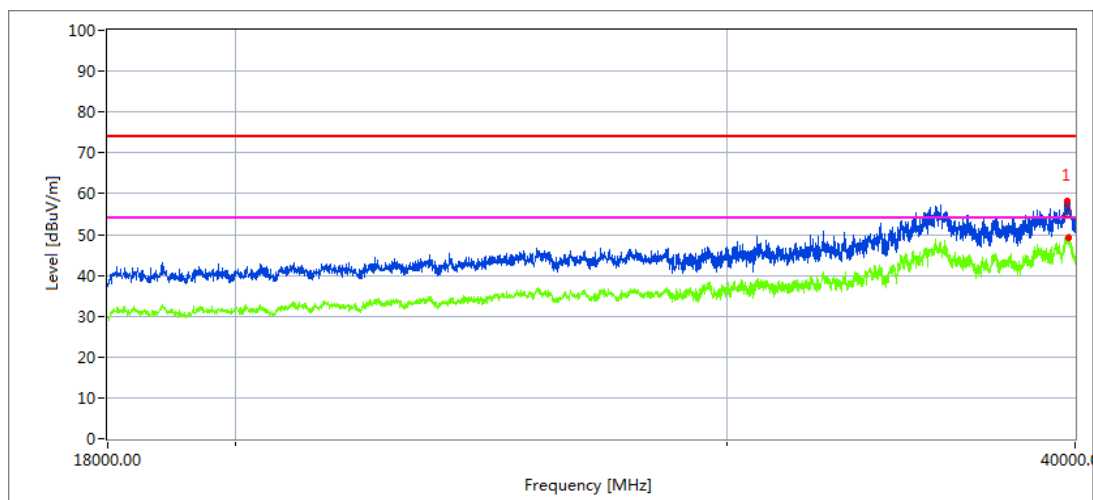
Low Channel (5745 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39669.954	37.93	20.09	44.16	43.48	58.7	68.2	9.5	Peak
39669.954	28.96	20.09	44.16	43.48	49.73	54	4.27	AVG

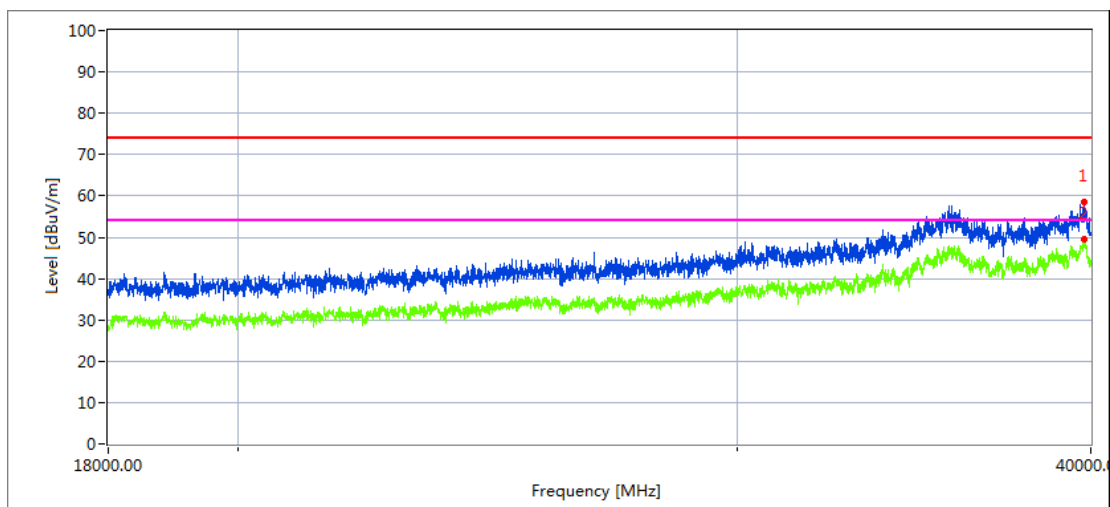
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39731.312	37.02	20.06	44.07	43.21	57.94	68.2	10.26	Peak
39731.312	27.99	20.06	44.07	43.21	48.91	54	5.09	AVG

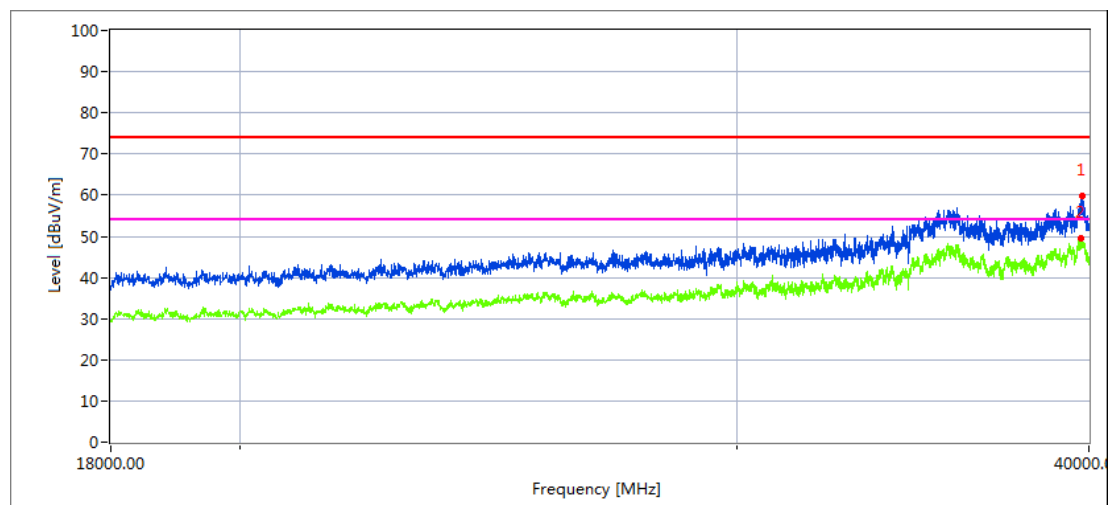
High Channel (5825 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
35628.264	38.98	19.11	42.63	43.48	57.24	68.2	10.96	Peak
35635.888	29.53	19.12	42.63	43.48	47.8	54	6.2	AVG

Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39821.733	37.87	20.1	44.1	43.22	58.85	68.2	9.35	Peak
39821.733	28.75	20.1	44.1	43.22	49.73	54	4.27	AVG

2.2.10 SPURIOUS EMISSION IN RESTRICTED BAND 4.5GHZ~5.150 GHZ& 5.350GHZ~5460GHZ

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.2G)-802.11a 5150MHz~5250MHz		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
5.2G WIFI-802.11a Mode									
4500	54.25	5.2	35.6	44.2	50.85	74	-23.15	Pk	Horizontal
4500	45.25	5.2	35.6	44.2	41.85	54	-12.15	AV	Horizontal
4500	57.2	5.2	35.6	44.2	53.8	74	-20.2	Pk	Horizontal
4500	44.22	5.2	35.6	44.2	40.82	54	-13.18	AV	Horizontal
5150	68.21	5.36	35.66	44.22	65.01	74	-8.99	Pk	Horizontal
5150	77.88	5.36	35.66	44.22	74.68	54	20.68	AV	Horizontal
5150	54.88	5.36	35.66	44.22	51.68	74	-22.32	Pk	Vertical
5150	77.67	5.36	35.66	44.22	74.47	54	20.47	AV	Vertical
5350	63.54	5.68	35.68	44.22	60.68	74	-13.32	Pk	Vertical
5350	45.17	5.68	35.68	44.22	42.31	54	-11.69	AV	Vertical
5350	58.92	5.68	35.68	44.22	56.06	74	-17.94	Pk	Horizontal
5350	43.63	5.68	35.68	44.22	40.77	54	-13.23	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

3. POWER SPECTRAL DENSITY TEST

3.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

- (3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

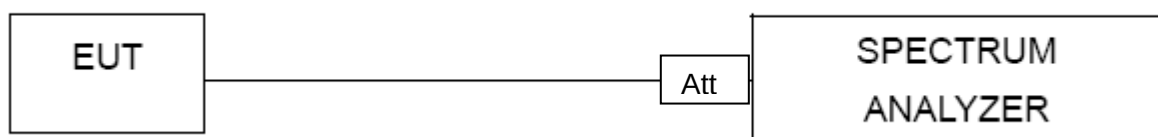
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

3.3 DEVIATION FROM STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6 TEST RESULTS

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2 (5745-5825MHz)		

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

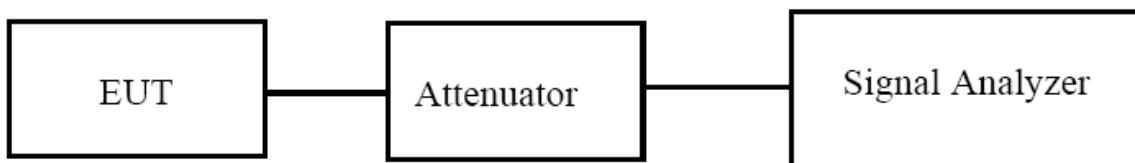
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

4.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set $VBW \geq 3 \cdot RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 TEST RESULTS

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2(5725-5850MHz)		

Test data reference attachment.

5. MINIMUM 6 DB BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2 TEST PROCEDURE

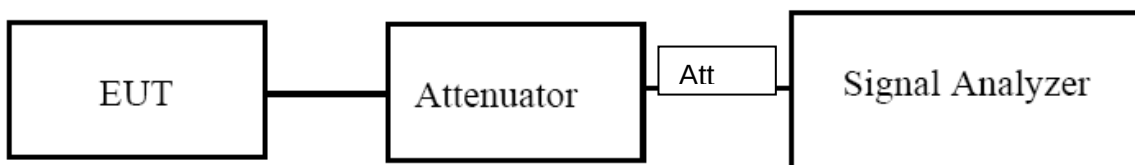
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5G) Mode Frequency Band 2 (5725-5850MHz)		

Test data reference attachment.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5470~5725	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

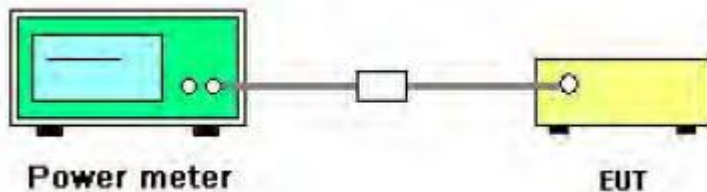
6.2 TEST PROCEDURE

- Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:
 - a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
 - c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
 - d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2 (5725-5850MHz)		

Test data reference attachment.

7. OUT OF BAND EMISSIONS

7.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(9) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) 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.
- (2) 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.
- (3) 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.
- (4) For transmitters operating in the 5.725-5.85 GHz band: 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.

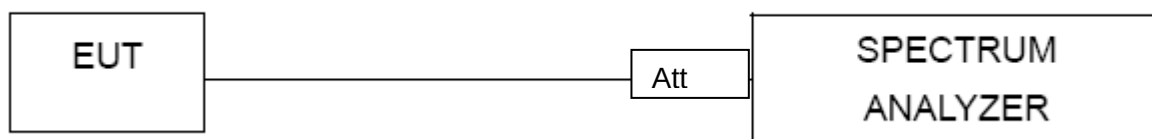
7.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

EUT :	Smart Phone	Model Name :	C23 Pro
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V

Test data reference attachment.

8. Frequency Stability Measurement

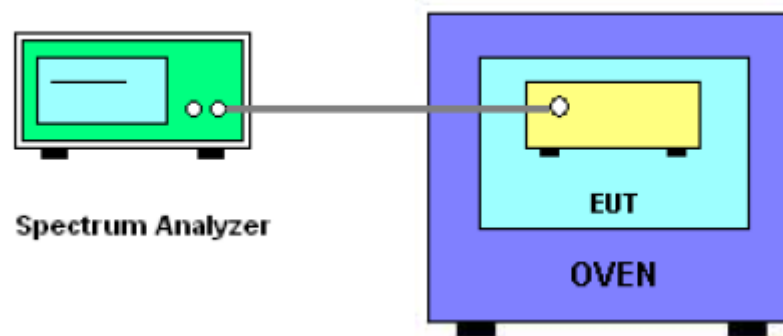
8.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring 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.

8.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

8.3 TEST SETUP LAYOUT



8.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.
2. The module has two antennas, and the worst data is Antenna 1, only shown Antenna 1 Plot.

8.5 TEST RESULTS

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5180.0245	5180	0.0245	-4.7297
		V max (V)	4.40	5180.0163	5180	0.0163	-3.1467
		V min (V)	3.40	5180.0134	5180	0.0134	-2.5869
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5180.0111	5180	0.0111	-2.1429
		T (°C)	-10	5180.0115	5180	0.0115	-2.2201
		T (°C)	0	5180.0253	5180	0.0253	-4.8842
		T (°C)	10	5180.0136	5180	0.0136	-2.6255
		T (°C)	20	5180.0120	5180	0.0120	-2.3166
		T (°C)	30	5180.0134	5180	0.0134	-2.5869
		T (°C)	40	5180.0117	5180	0.0117	-2.2587
		T (°C)	50	5180.0143	5180	0.0143	-2.7606
		T (°C)	60	5180.0161	5180	0.0161	-3.1081
		T (°C)	70	5180.0117	5180	0.0117	-2.2587
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5200.0157	5200	0.0157	-3.0192
		V max (V)	4.40	5200.0115	5200	0.0115	-2.2115
		V min (V)	3.40	5200.0133	5200	0.0133	-2.5577
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5200.0334	5200	0.0334	-6.4231
		T (°C)	-10	5200.0146	5200	0.0146	-2.8077
		T (°C)	0	5200.0334	5200	0.0334	-6.4231
		T (°C)	10	5200.0229	5200	0.0229	-4.4038
		T (°C)	20	5200.0157	5200	0.0157	-3.0192
		T (°C)	30	5200.0144	5200	0.0144	-2.7692
		T (°C)	40	5200.0203	5200	0.0203	-3.9038
		T (°C)	50	5200.0195	5200	0.0195	-3.7500
		T (°C)	60	5200.0152	5200	0.0152	-2.9231
		T (°C)	70	5200.0145	5200	0.0145	-2.7885
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5240.0139	5240	0.0139	-2.6527
		V max (V)	4.40	5240.0196	5240	0.0196	-3.7405
		V min (V)	3.40	5240.0179	5240	0.0179	-3.4160
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5240.0136	5240	0.0136	-2.5954
		T (°C)	-10	5240.0178	5240	0.0178	-3.3969
		T (°C)	0	5240.0176	5240	0.0176	-3.3588
		T (°C)	10	5240.0251	5240	0.0251	-4.7901
		T (°C)	20	5240.0147	5240	0.0147	-2.8053
		T (°C)	30	5240.0169	5240	0.0169	-3.2252
		T (°C)	40	5240.0199	5240	0.0199	-3.7977
		T (°C)	50	5240.0187	5240	0.0187	-3.5687
		T (°C)	60	5240.0149	5240	0.0149	-2.8435
		T (°C)	70	5240.0133	5240	0.0133	-2.5382
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	Smart Phone	Model Name. :	C23 Pro
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency(5745-5850MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5745.01746	5745	0.01746	-3.0384
		V max (V)	4.40	5745.01184	5745	0.01184	-2.0617
		V min (V)	3.40	5745.01883	5745	0.01883	-3.2771
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5745.01985	5745	0.01985	-3.4546
		T (°C)	-10	5745.01820	5745	0.01820	-3.1687
		T (°C)	0	5745.01175	5745	0.01175	-2.0448
		T (°C)	10	5745.01342	5745	0.01342	-2.3357
		T (°C)	20	5745.01099	5745	0.01099	-1.9124
		T (°C)	30	5745.01224	5745	0.01224	-2.1303
		T (°C)	40	5745.01651	5745	0.01651	-2.8737
		T (°C)	50	5745.01615	5745	0.01615	-2.8108
		T (°C)	60	5745.01474	5745	0.01474	-2.5660
		T (°C)	70	5745.01260	5745	0.01260	-2.1930
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5785.01028	5785	0.01028	-1.7777
		V max (V)	4.40	5785.01492	5785	0.01492	-2.5797
		V min (V)	3.40	5785.01284	5785	0.01284	-2.2200
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5785.01091	5785	0.01091	-1.8866
		T (°C)	-10	5785.01308	5785	0.01308	-2.2615
		T (°C)	0	5785.01617	5785	0.01617	-2.7949
		T (°C)	10	5785.00926	5785	0.00926	-1.6008
		T (°C)	20	5785.01399	5785	0.01399	-2.4191
		T (°C)	30	5785.01065	5785	0.01065	-1.8417
		T (°C)	40	5785.00822	5785	0.00822	-1.4204
		T (°C)	50	5785.01242	5785	0.01242	-2.1469
		T (°C)	60	5785.01574	5785	0.01574	-2.7205
		T (°C)	70	5785.01552	5785	0.01552	-2.6835
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85	5825.01098	5825	0.01098	-1.8857
		V max (V)	4.40	5825.01409	5825	0.01409	-2.4186
		V min (V)	3.40	5825.01965	5825	0.01965	-3.3736
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.85	T (°C)	-20	5825.00934	5825	0.00934	-1.6042
		T (°C)	-10	5825.01487	5825	0.01487	-2.5530
		T (°C)	0	5825.01118	5825	0.01118	-1.9201
		T (°C)	10	5825.00832	5825	0.00832	-1.4279
		T (°C)	20	5825.00921	5825	0.00921	-1.5819
		T (°C)	30	5825.01700	5825	0.01700	-2.9185
		T (°C)	40	5825.01521	5825	0.01521	-2.6116
		T (°C)	50	5825.00928	5825	0.00928	-1.5935
		T (°C)	60	5825.01663	5825	0.01663	-2.8549
		T (°C)	70	5825.01372	5825	0.01372	-2.3548
Limits				Within 5745-5850MHz			
Result				Complies			

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

The EUT antenna is permanent attached FPC Antenna (antenna gain: 1 dBi). It comply with the standard requirement.

END OF REPORT