





NFC TEST REPORT

No.I20Z60563-IOT01

for

TCL Communication Ltd.

HSUPA/DCHSPA+/UMTS 5 Bands/GSM/EDGE Quad Bands/LTE

11 bands/ 5G FR1 6 bands mobile phone

T790Y

FCC ID: 2ACCJN043

with

Hardware Version: 03

Software Version: v2.0.1A.H.6

Issued Date: 2020-05-26

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

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

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





REPORT HISTORY

Report Number	Revision	Description	Issue Date
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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,

P. R. China 100191

Location 2: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,

Haidian District, Beijing, P. R. China 100191

Location 3: CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology

Development Area, Beijing, P. R. China 100176





1.3. <u>Testing Environment</u>

Normal Temperature: 15-35°C

Extreme Temperature: -20/+50°C

Normal Relative Humidity: 20-75%

Normal Air Pressure 86Kpa-106Kpa

1.4. Project data

Testing Start Date: 2020-04-16
Testing End Date: 2020-05-26

1.5. Signature

周娥

Zhou Bin

(Prepared this test report)

Pang Shuai

(Reviewed this test report)

Zhu Liang

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Address:

Park, Shatin, NT, Hong Kong

City: Hong Kong

Postal Code:

Country: CHINA

Telephone: 0086-755-36611722

Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science

Park, Shatin, NT, Hong Kong

City: Hong Kong

Postal Code: /

Address:

Country: CHINA

Telephone: 0086-755-36611722

Fax: 0086-755-36611722





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

3.1. About EUT

Description HSUPA/HSDPA/UMTS 5 Bands/GSM Quad Bands/LTE 17

bands mobile phone

Model name/HVIN T770B
Brand name TCL

FCC ID 2ACCJN043 UMTS Frequency Band(s) FDD I/II/IV/V/VIII

GSM Frequency Band(s) GSM900/1800/1900/850

E-UTRA Frequency Band(s) FDD1/2/3/5/7/8/20/28/28a/28b/32ca/38/40/41

Extreme Temperature -10/+55℃ Nominal Voltage 3.85V Extreme High Voltage 4.4V Extreme Low Voltage 3.5V

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
18a	354926110006069	03	v2.0.1A.H.6	2020-4-14
36a	979674f6	03	v2.0.1A.H.6	2020-4-21
38a	354926110009808/01	03	v2.0.1A.H.6	2020-4-26

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

3.3. Internal Identification of AE

-	AE ID*	Description		SN
A	AE1	Battery		/
A	AE2	Charger		/
A	AE3	USB Cable		/
A	AE4	USB Cable		/
AE1	I			
N	Model		TLp043E7	
N	Manufacturer		VEKEN	
(Capacitance		4360mAh	
1	Nominal voltag	ge	/	
AE2	2			
N	Model		QC13US	
N	Manufacturer		BYD	
L	ength of cabl	le	/	





AE3

Model CDA0000139C1

Manufacturer Juwei /

Length of cable

AE4

Model CDA0000139C2

Manufacturer Shenghua

Length of cable

3.4. EUT Set-ups

Table 1: Eut Set-ups

EUT Set-up No.	Combination of EUT and AE	_Remarks
Set.NFC01	38a+ AE1+ AE2+ AE3/AE4	
Set.NFC02	38a+ AE1	
Set. NFC03	18a+36a	

The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.

The Transmit state without modulation: The EUT will transmit the CW signal at the operating frequency.

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





4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, are supplied by the client or manufacturer, which are the bases of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
CFR 47 Part 2	Part 2 — Frequency Allocations and Radio Treaty Matters;	2018
	General Rules and Regulations.	
CFR 47 Part 15	Part 15 — Radio Frequency Devices.	2018
	Subpart C — Intentional Radiators.	
	§ 15.35 Measurement detector functions and bandwidths.	
	§ 15.207 Conducted limits.	
	§ 15.209 Radiated emission limits, general requirements.	
	§ 15.215 Additional provisions to the general radiated	
	emission limitations.	
	§ 15.225 Operation within the band 13.110–14.010 MHz.	
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	





5. Test Results

5.1. Summary of Test Results

Table 2: Summary of Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
1	Electric Field Strength of Fundamental Emissions	CFR 47 § 15.225(a)	D 4	P(Set. NFC02)
2	Electric Field Strength of	CFR 47 § 15.225(b)	B.1	P(Set. NFC02)
	Outside the Allocated Bands	CFR 47 § 15.225(c)		P(Set. NPC02)
3	Electric Field Radiated	CFR 47 § 15.209	B.2	P(Set. NFC01)
3	Emissions	CFR 47 § 15.225(d)	B.3	P(Set. NFC01)
4	Frequency Tolerance	CFR 47 § 15.225(e)	B.4	P(Set. NFC03)
5	20dB Bandwidth	CFR 47 § 15.215(c)	B.5	P(Set. NFC03)
6	Conducted Emissions	CFR 47 § 15.207	B.6	P(Set. NFC01)
The	measurement is carried out acco	ording to ANSI C63.10. S	ee ANNEX B for	details.

Test Conditions:

For this report, all the test cases listed above were tested under normal Temperature, Voltage, humidity and Air Pressure except the Frequency Tolerance test case. The specific conditions of Frequency Tolerance test case are listed in section B.4.3

See Table 3 for terms for result verdict:

Table 3 Terms for result verdict

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

5.2. Statements

The test cases listed in Section 5.1 of this report for the EUT specified in Section 3 were performed by CTTL according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.





6. Test Facilities Utilized

Table 4: Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Spectrum Analyzer	RSA3408A	B010277	Tektronix	2020-09-26	1 Year
2.	Climatic chamber	SH242	93008658	ESPEC	2021-01-18	1 Year
3.	H-field Antenna	HFH2-Z2	829324/007	R&S	2020-11-18	1 Year
4.	Test Receiver	FSV40	101047	R&S	2020-06-16	1 Year
5.	LISN	ENV216	101459	Rohde &	2021-03-17	1 Year
Э.	LISIN	EINVZIO	101459	Schwarz	2021-03-17	i feai
6.	Test Receiver	ESU26	100376	R&S	2020-10-30	1 Year
7.	BiLog Antenna	VULB9163	9163-482	Schwarzbeck	2020-09-16	1 Year





7. Measurement Uncertainty

Table 5: Measurement Uncertainty

Item	Uncertainty
Frequency Tolerance	<i>U</i> =77 Hz, k=2
20dB Bandwidth	<i>U</i> =77 Hz, k=2
Radiated Emissions (<1GHz)	<i>U</i> =4.86 dB, k=2
Radiated Emissions (>1GHz)	<i>U</i> =5.26 dB, k=2
Conducted emission	<i>U</i> = 3.38 dB, k=2





ANNEX A: EUT parameters

/





ANNEX B: Detailed Test Results

B.1. Electric Field Strength of Fundamental and Outside the Allocated bands

B.1.1. Reference

See Clause 4, Clause 5 of ANSI C63.10-2013 generally.

B.1.2. Measurement Methods

The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Table B-1: Measurement bandwidth

Frequency of Emission (MHz)	RBW/VBW
12.56-14.56	10/30 kHz

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$

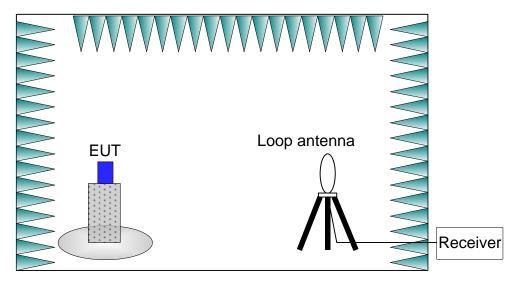


Figure B-1: Measurement Setup

B.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4). The EUT is powered by a travel adapter.





During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 \sim 25 $^{\circ}$ C.

B.1.4. Limits

Table B-2: Limits

Frequency Range (MHz)	E-field Strength Limit @ 30 m (μV/m)	E-field Strength Limit @ 3 m (dBµV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553	+334	90
13.567 to 13.710	+334	90
13.110 to 13.410	1106	01
13.710 to 14.010	+106	81

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)

B.1.5. Measurement Results

Measurement results of normal conditions see Figure B-2 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

Conclusions: Set.NFC02, PASS.

Full Spectrum

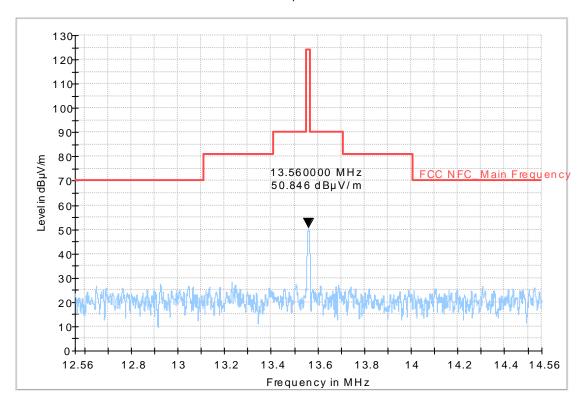


Figure B-2: Measurement results for Electric Field Strength of Fundamental and Outside the Allocated bands





B.2. Electric Field Radiated Emissions (< 30MHz)

B.2.1. Reference

See Clause 6.4 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

B.2.2. Measurement Methods

The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Table B-3: Measurement bandwidth

Frequency of Emission (MHz)	RBW/VBW
0.009-0.15	100/300 Hz
0.15-30	10/30 kHz

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$

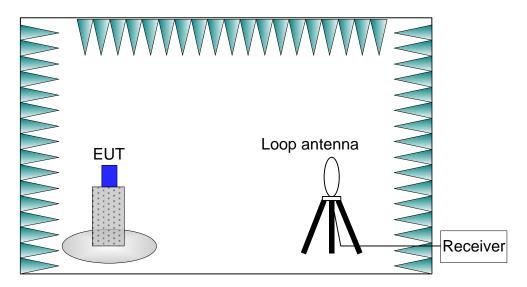


Figure B-3: Measurement Setup

B.2.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is





in the range of $15 \sim 25$ °C.

B.2.4. Limits

Table B-4: Limits

Frequency Range (MHz)	E-field Strength Limit @ 30m	E-field Strength Limit @ 3m	
requeries runige (iiii iz)	(mV/m)	(dBµV/m)	
0.009-0.490	2400/F(kHz)	129-94	
0.490-1.705	24000/F(kHz)	74-63	
1.705-30	30	70	

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)

B.2.5. Measurement Results

Measurement results of normal conditions see Figure B-4 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

Conclusions: Set.NFC01, PASS.

Full Spectrum

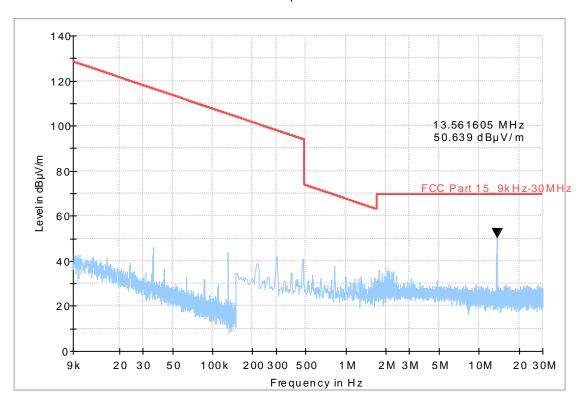


Figure B-4: Measurement results for Electric Field Radiated Emissions (< 30MHz)





B.3. Electric Field Radiated Emissions (≥30MHz)

B.3.1. Reference

See Clause 6.5 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

B.3.2. Measurement Methods

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 10m from the receiving antenna. The receiving antennas connected to a measurement receiver. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Table B-5: Measurement bandwidth

Frequency of Emission (MHz)	RBW/VBW
30-1000	120kHz

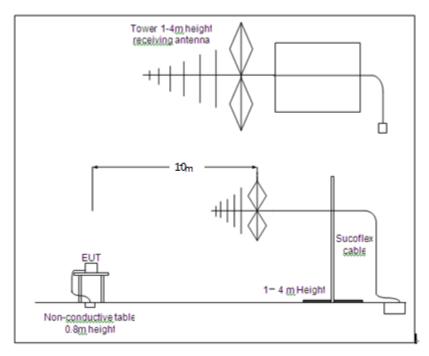


Figure B-5: Measurement Setup

B.3.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is





in the range of 15 \sim 25 °C.

B.3.4. Limits

Table B-6: Limits

Eroguenov	E-field Strength Limit	E-field Strength Limit	E-field Strength Limit
Frequency	@ 3m	@ 3m	@ 10m
Range (MHz)	(mV/m)	(dBµV/m)	(dBµV/m)
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960-1000	500	54	44

B.3.5. Measurement Results

Measurement results of normal conditions see Figure B-6 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

Conclusions: Set.NFC01, PASS.

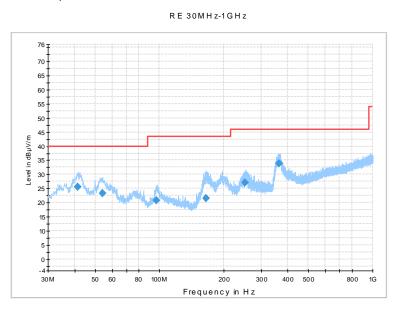


Figure B-6: Measurement results for Electric Field Radiated Emissions (≥30MHz)

Final Result 1

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
41.349000	25.7	100.0	V	48.0	-0.2	14.3	40.0
54.250000	23.4	125.0	v	55.0	-0.2	16.6	40.0
97.124000	20.9	100.0	V	0.0	-1.5	19.1	40.0
165.606000	21.5	100.0	V	-12.0	-4.0	18.5	40.0
251.645000	27.2	110.0	н	102.0	-0.1	19.8	47.0
364.650000	33.8	100.0	Н	105.0	3.2	13.2	47.0





B.4. Frequency Tolerance

B.4.1. Reference

See Clause 6.8 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

B.4.2. Measurement Methods

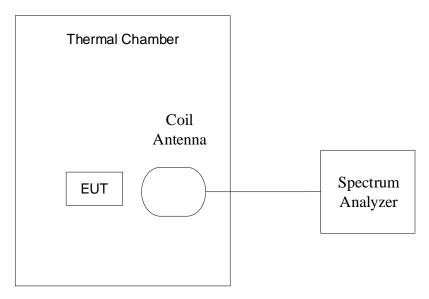


Figure B-7: Measurement Setup

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

B.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT was carried out under the transmit state of without modulation(See 3.4). EUT had not been connected to a travel adapter. The frequency stability was measured with the different voltage and temperature combinations:

- a) The nominal voltage 3.85V(See 3.1)was used and the temperature was varied from -20°C to +50°C in 10°C increments using an environmental chamber.
- b) The 20°C was used and the voltages were 3.6V, 3.85V and 4.4V (The extreme low voltage ,the nominal voltage and the extreme high voltage defined in section 3.1).

The details were as following:

Table B-7: Combinations of Voltage and Temperature

	U	<u> </u>
Test items	Voltage	Temperature
Frequency		-20℃
stability with respect	3.85V	-10℃
to ambient	3.00 V	0℃
temperature		10℃





		20℃
		30℃
		40℃
		50℃
Frequency stability	3.6V	
when varying supply	3.85V	20 ℃
voltage	4.4V	

B.4.4. Test Layouts

See B.4.2.

B.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

B.4.6. Measurement Results

Measurement results see Table B-9 for different test conditions.

Conclusions: Set.NFC03, PASS.

 Table B-8:
 Measurement results for Frequency Tolerance

Tomporeture	Voltago	Frequency (MHz)			
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later
-20°C	3.85V	13.559765625	13.559771875	13.559784835	13.559786875
-10℃	3.85V	13.559796875	13.559804375	13.559803125	13.559800625
0℃	3.85V	13.559803125	13.559796875	13.559801875	13.559975625
10℃	3.85V	13.559978625	13.559987375	13.559984875	13.559973765
20℃	3.85V	13.559998625	13.559999875	13.559999125	13.559760625
30℃	3.85V	13.559738215	13.559999625	13.559730625	13.559728125
40℃	3.85V	13.559703125	13.559700625	13.559699375	13.559698125
50℃	3.85V	13.559680625	13.559681875	13.559683125	13.559684375
20℃	3.5V	13.559755625	13.559756875	13.559759375	13.559808125
20℃	4.4V	13.559710625	13.559721875	13.559739375	13.559746875

Tomporeture	\/oltogo	Frequency Error (%)			
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later
-20 ℃	3.85V	-0.002	-0.002	-0.002	-0.002
-10℃	3.85V	-0.001	-0.001	-0.001	-0.001
0℃	3.85V	-0.001	-0.001	-0.001	0.000
10℃	3.85V	0.000	0.000	0.000	0.000
20℃	3.85V	0.000	0.000	0.000	-0.002
30℃	3.85V	-0.002	0.000	-0.002	-0.002
40℃	3.85V	-0.002	-0.002	-0.002	-0.002
50℃	3.85V	-0.002	-0.002	-0.002	-0.002





20℃	3.5V	-0.002	-0.002	-0.002	-0.001
20℃	4.4V	-0.002	-0.002	-0.002	-0.002

B.4.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k=2

B.5. 20dB Bandwidth

B.5.1. Reference

See Clause 6.9 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

B.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 140Hz RBW, 420Hz VBW and 14kHz span.

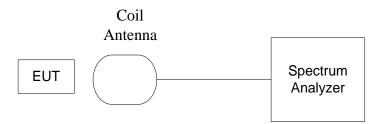


Figure B-8: Measurement Setup

B.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT was carried out under the transmit state of NFC (See 3.4). EUT had not been connected to a travel adapter.

During the measurements, the ambient temperature was in the range of $15 \sim 25$ °C.

B.5.4. Test Layouts

See B.5.2.

B.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 14kHz, so the limit is 11.2 kHz.

B.5.6. Measurement Results

Measurement results see Figure B-9.

Conclusions: Set.NFC03, PASS.





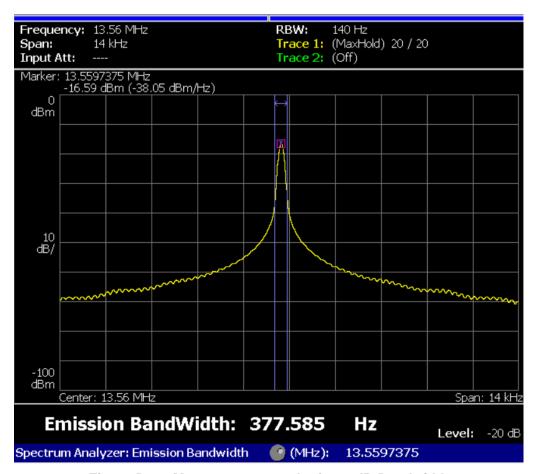


Figure B-9: Measurement results for 20dB Bandwidth

B.5.7. Measurement Uncertainty

Measurement uncertainty: *U* =77 Hz, k=2

B.6. Conducted emission

B.6.1. Reference

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

B.6.2. Measurement Methods

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

Table B-9: Measurement Bandwidth

Frequency of Emission (MHz)	RBW/VBW	
0.15-30	9kHz	





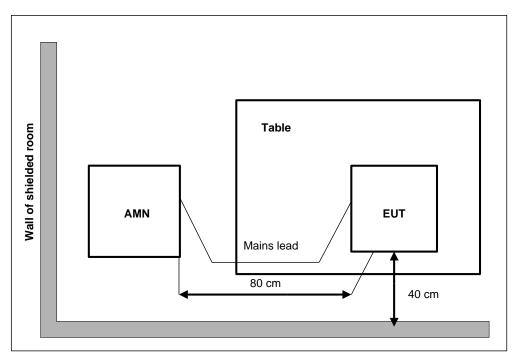


Figure B-10: Measurement Setup

B.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4). The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of 15 ~ 25 $\,^{\circ}$ C.

B.6.4. Limits

Table B-10: Limits

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

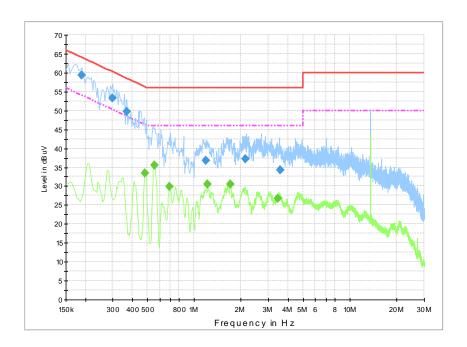
B.6.5. Measurement Results

Measurement results see Figure B-11.

Conclusions: Set.NFC01, PASS.







Note: the spike over the limit is the NFC carrier frequency and coming from the radio equipment.

Figure B-11: Measurement results for Conducted Emission
Final Result 1

Table B-11: Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBuV)	Time	(kHz)			(dB)	(dB)	(dBuV)
		(ms)						
0.190500	59.3	10000.0	9.000	On	N	19.9	4.7	64.0
0.298500	53.2	10000.0	9.000	On	N	19.9	7.1	60.3
0.370500	49.7	10000.0	9.000	On	N	19.8	8.8	58.5
1.194000	36.8	10000.0	9.000	On	L1	19.7	19.2	56.0
2.134500	37.2	10000.0	9.000	On	N	19.6	18.8	56.0
3.588000	34.2	10000.0	9.000	On	N	19.6	21.8	56.0

Final Result 2

Table B-12: Final Result 2

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBuV)	Time	(kHz)			(dB)	(dB)	(dBuV)
		(ms)						
0.483000	33.4	10000.0	9.000	On	L1	19.8	12.9	46.3
0.555000	35.6	10000.0	9.000	On	L1	19.8	10.4	46.0
0.694500	29.8	10000.0	9.000	On	L1	19.7	16.2	46.0
1.221000	30.5	10000.0	9.000	On	L1	19.7	15.5	46.0
1.702500	30.4	10000.0	9.000	On	L1	19.7	15.6	46.0
3.462000	26.7	10000.0	9.000	On	L1	19.6	19.3	46.0





ANNEX C: Persons involved in this testing

Table C-1: Persons involved

Test Item	Tester			
20dB Bandwidth	Zhou Bin			
Frequency Tolerance	Zhou Bin			
Electric Field Strength of Fundamental and Outside	Li Pengfei			
the Allocated bands				
Electric Field Radiated Emissions (< 30MHz)	Li Pengfei			
Electric Field Radiated Emissions (≥30MHz)	Li zongliang			
Conducted Emissions	Guo Qian			





ANNEX D: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-09-26 through 2020-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

END OF REPORT