



EMC TEST REPORT

Report No.: Q200102S012-FCC-E

Supersede Report No: N/A

Applicant	ZTE Corporation
Product Name	3G Smart Feature Phone
Model No.	Z2317
Serial No.	N/A
Test Standard	FCC Part 15 Subpart B Class B, ANSI C63.4: 2014
Test Date	Sep 02 to 09, 2019
Issue Date	Jan. 21, 2020
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Equipment complied with the specification <input checked="" type="checkbox"/>	
Equipment did not comply with the specification <input type="checkbox"/>	
<i>Evans He</i>	<i>David Huang</i>
Evans He Test Engineer	David Huang Checked By
<p>This test report may be reproduced in full only</p> <p>Test result presented in this test report is applicable to the tested sample only</p>	

Issued by:

BUREAU VERITAS (SHENZHEN) CONSUMER PRODUCTS SERVICES CO., LTD

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
Q200102S012-FCC-E	NONE	Original	Jan. 21, 2020

2. Customer information

Applicant Name	ZTE Corporation
Applicant Add	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R. China
Manufacturer	ZTE Corporation
Manufacturer Add	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R. China

3. Test site information

Lab performing tests	BUREAU VERITAS (SHENZHEN) CONSUMER PRODUCTS SERVICES CO., LTD
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)



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4. Equipment under Test (EUT) Information

Description of EUT:	3G Smart Feature Phone
Main Model:	Z2317
Serial Model:	N/A
Antenna Gain:	GSM850: -1dBi PCS1900: -1.5dBi UMTS-FDD Band V: -1dBi UMTS-FDD Band II: -1.5dBi UMTS-FDD Band IV: -1.5dBi WIFI: 0dBi Bluetooth/BLE: 0dBi
Antenna Type:	PIFA antenna
Input Power:	Adapter 1: Model: TPA-97050050U01 Input: AC100-240V~50/60Hz,0.15A Output: DC 5.0V, 500mA Adapter 2: Model: 50.069MX03 Input: AC100-240V~50/60Hz,0.2A Output: DC 5.0V, 500mA Battery : Model: 5C1001 Spec: 3.7V, 1000mAh/3.7Wh Limited charge voltage: 4.2
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK



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UMTS-FDD: QPSK
802.11b/g/n: DSSS, OFDM
Bluetooth: GFSK, π /4DQPSK, 8DPSK
BLE: GFSK
GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;
RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band IVTX:1712.4 ~ 1752.6 MHz;
RX : 2112.4 ~ 2152.6 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz
WIFI: 802.11n(40M): 2422-2452 MHz
Bluetooth& BLE: 2402-2480 MHz
GPS: 1575.42 MHz

GSM 850: 124CH
PCS1900: 299CH
UMTS-FDD Band V: 102CH
UMTS-FDD Band II: 277CH

Number of Channels: WIFI :802.11b/g/n(20M): 11CH
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH
GPS:1CH

Port: Please refer to the user's manual

Trade Name : ZTE

FCC ID: SRQ-ZTEZ2317

GPRS/ EGPRS Multi-slot class 8/10/11/12

Date EUT received: Aug 28, 2019

Test Date(s): Sep 02 to 09, 2019



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

Measurement Uncertainty

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB

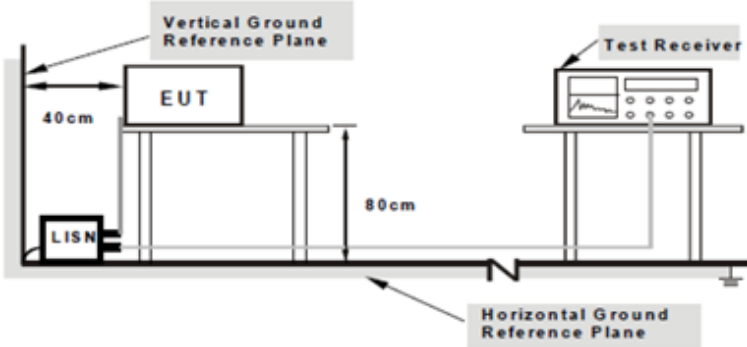
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	26°C
Relative Humidity	73%
Atmospheric Pressure	1019mbar
Test date :	Sep 02, 2019
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [μ] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dBμV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dBμV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p style="text-align: center; font-size: small;"> Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units. </p>
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Procedure	<ol style="list-style-type: none"> 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. 2. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains. 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
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	coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode 1 : USB Downloading Mode

Test Mode 2: Charging and Camera Mode

Test Mode 3: Charging and Video Mode

Test Mode 4: Charging and Audio Mode

Test Mode 5: Charging and FM Mode

Note: 1, All above test modes were investigated. The results below show only the worst case.

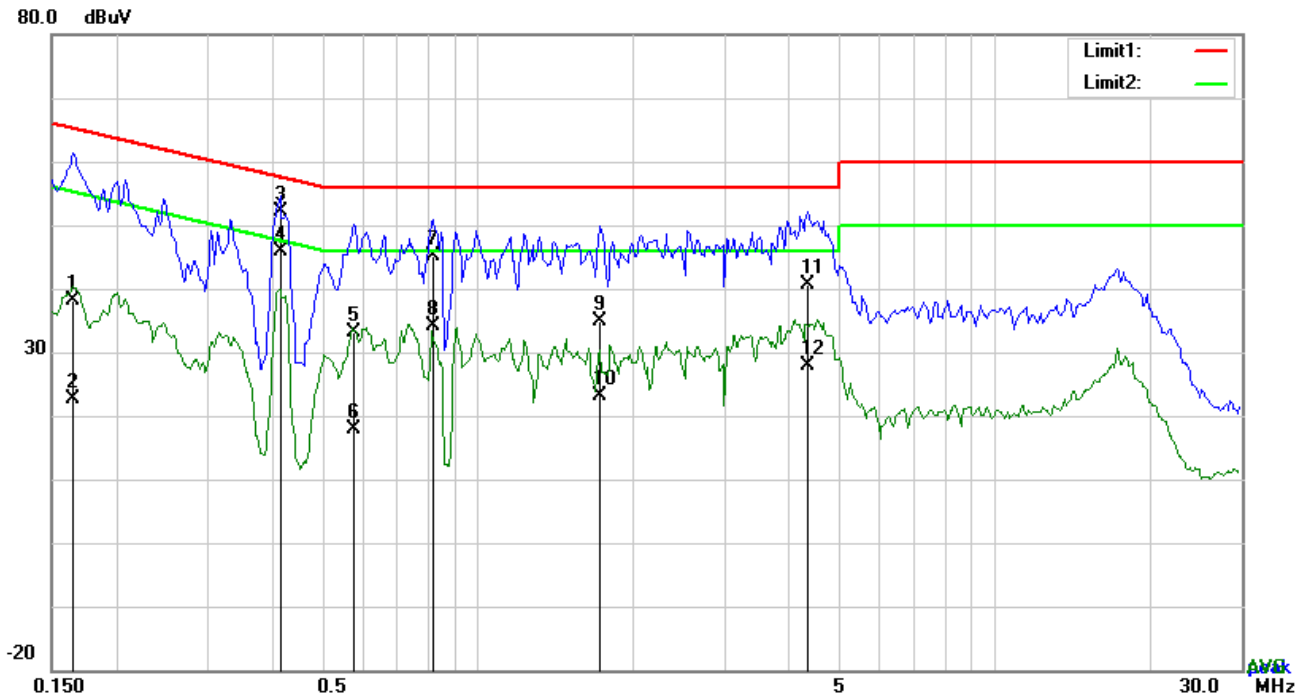
2, The AC/DC adapter TPA-97050050U01& 50.069MX03 were investigated. The results below show only the worst case.



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3, The Phase Line Plot at 120Vac, 60Hz and 240Vac, 60Hz were investigated. The results below show only the worst case.

Test Mode 2 : Charging and Camera Mode (worst case) & AC/DA adaptor Model: TPA-97050050U01



Test Data

Phase Line Plot at 120Vac, 60Hz

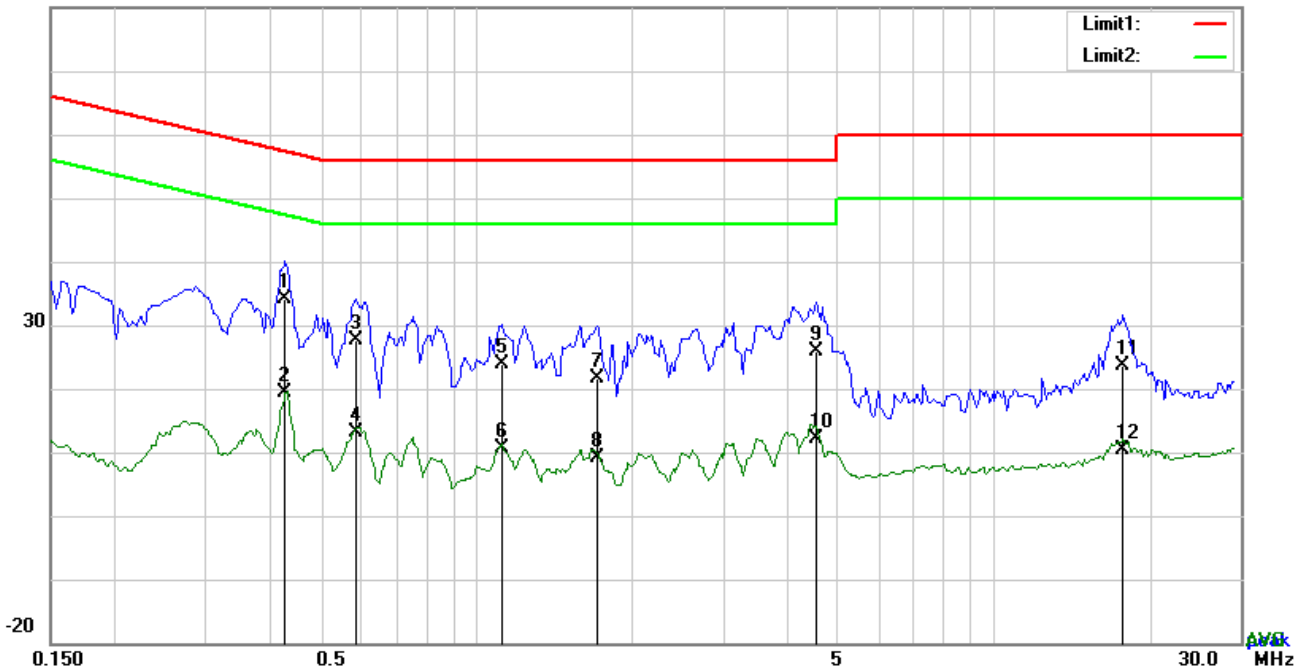
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1656	28.05	QP	10.12	38.17	65.18	-27.01
2	L1	0.1656	12.50	AVG	10.12	22.62	55.18	-32.56
3	L1	0.4152	41.99	QP	10.10	52.09	57.54	-5.45
4	L1	0.4152	35.67	AVG	10.10	45.77	47.54	-1.77
5	L1	0.5790	23.03	QP	10.10	33.13	56.00	-22.87
6	L1	0.5790	7.85	AVG	10.10	17.95	46.00	-28.05
7	L1	0.8208	35.10	QP	10.12	45.22	56.00	-10.78
8	L1	0.8208	24.08	AVG	10.12	34.20	46.00	-11.80
9	L1	1.7295	24.64	QP	10.14	34.78	56.00	-21.22
10	L1	1.7295	13.07	AVG	10.14	23.21	46.00	-22.79
11	L1	4.3377	30.32	QP	10.19	40.51	56.00	-15.49
12	L1	4.3377	17.66	AVG	10.19	27.85	46.00	-18.15



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80.0 dBuV



Test Data

Phase Neutral Plot at 120Vac, 60Hz

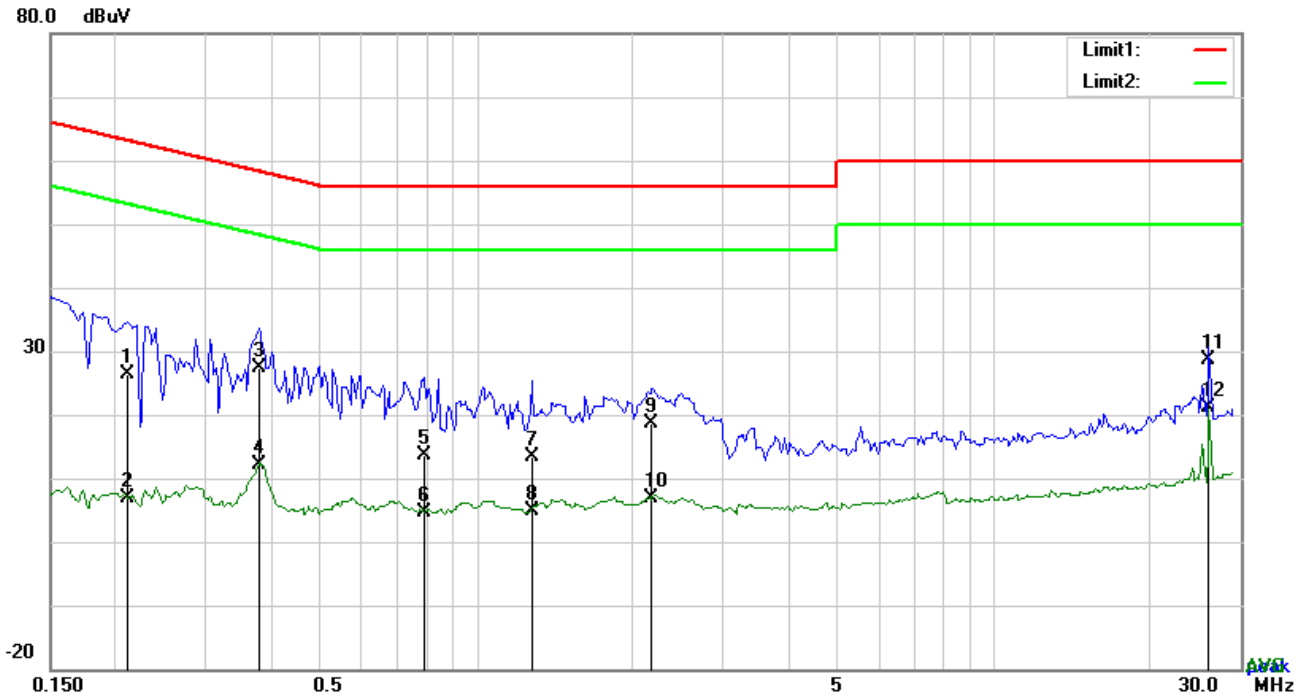
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.4269	23.92	QP	10.12	34.04	57.31	-23.27
2	N	0.4269	9.26	AVG	10.12	19.38	47.31	-27.93
3	N	0.5829	17.43	QP	10.12	27.55	56.00	-28.45
4	N	0.5829	3.08	AVG	10.12	13.20	46.00	-32.80
5	N	1.1211	13.80	QP	10.15	23.95	56.00	-32.05
6	N	1.1211	0.60	AVG	10.15	10.75	46.00	-35.25
7	N	1.7100	11.47	QP	10.16	21.63	56.00	-34.37
8	N	1.7100	-1.06	AVG	10.16	9.10	46.00	-36.90
9	N	4.5288	15.64	QP	10.20	25.84	56.00	-30.16
10	N	4.5288	1.88	AVG	10.20	12.08	46.00	-33.92
11	N	17.8239	13.38	QP	10.35	23.73	60.00	-36.27
12	N	17.8239	0.01	AVG	10.35	10.36	50.00	-39.64



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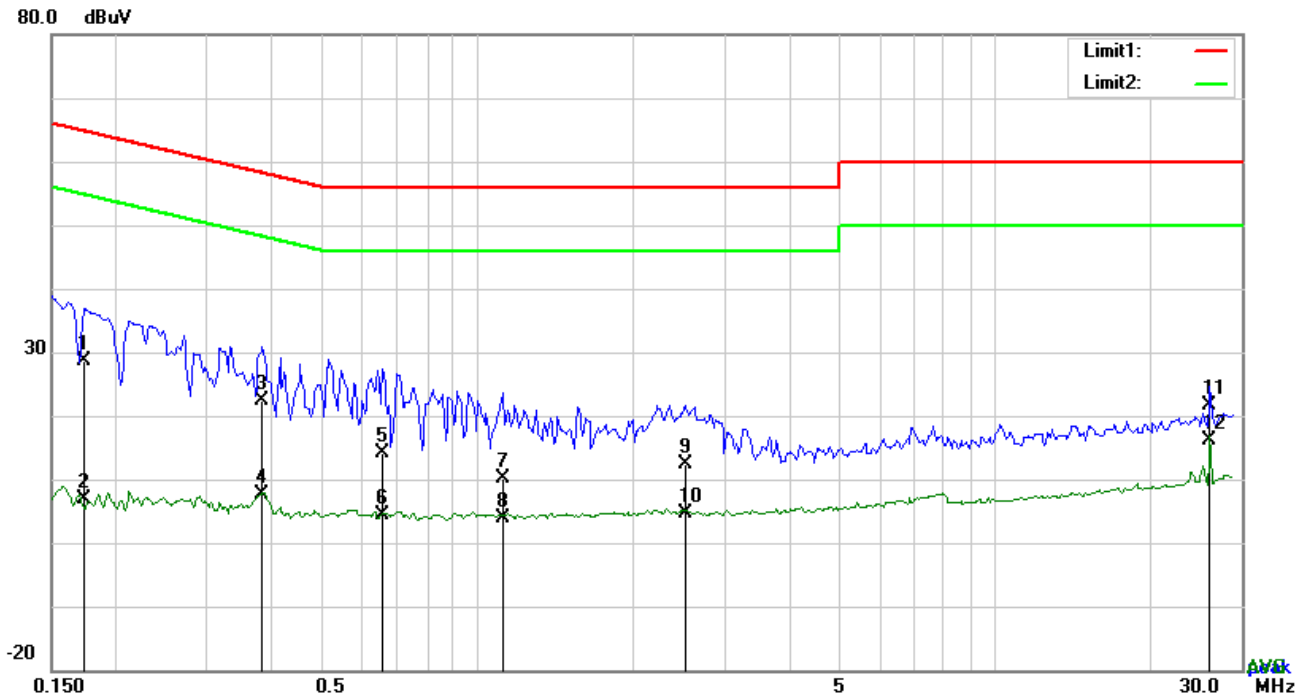
Test Mode 2 : Charging and Camera Mode (worst case) & AC/DA adaptor Model:
50.069MX03



Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2124	16.39	QP	10.11	26.50	63.11	-36.61
2	L1	0.2124	-3.18	AVG	10.11	6.93	53.11	-46.18
3	L1	0.3801	17.15	QP	10.11	27.26	58.28	-31.02
4	L1	0.3801	1.98	AVG	10.11	12.09	48.28	-36.19
5	L1	0.7935	3.54	QP	10.12	13.66	56.00	-42.34
6	L1	0.7935	-5.46	AVG	10.12	4.66	46.00	-41.34
7	L1	1.2771	3.21	QP	10.13	13.34	56.00	-42.66
8	L1	1.2771	-5.30	AVG	10.13	4.83	46.00	-41.17
9	L1	2.1858	8.46	QP	10.15	18.61	56.00	-37.39
10	L1	2.1858	-3.35	AVG	10.15	6.80	46.00	-39.20
11	L1	26.0022	18.13	QP	10.56	28.69	60.00	-31.31
12	L1	26.0022	10.52	AVG	10.56	21.08	50.00	-28.92



Test Data

Phase Neutral Plot at 240Vac, 60Hz

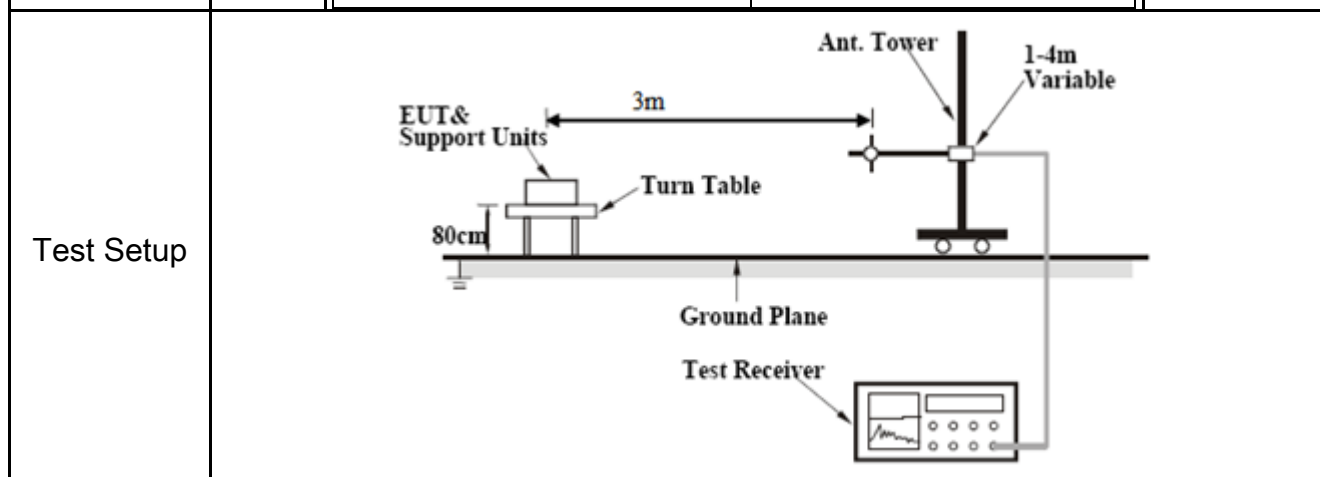
No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1734	18.55	QP	10.14	28.69	64.80	-36.11
2	N	0.1734	-3.36	AVG	10.14	6.78	54.80	-48.02
3	N	0.3840	12.16	QP	10.13	22.29	58.19	-35.90
4	N	0.3840	-2.39	AVG	10.13	7.74	48.19	-40.45
5	N	0.6570	3.98	QP	10.13	14.11	56.00	-41.89
6	N	0.6570	-5.79	AVG	10.13	4.34	46.00	-41.66
7	N	1.1211	0.07	QP	10.15	10.22	56.00	-45.78
8	N	1.1211	-6.26	AVG	10.15	3.89	46.00	-42.11
9	N	2.5134	2.33	QP	10.17	12.50	56.00	-43.50
10	N	2.5134	-5.47	AVG	10.17	4.70	46.00	-41.30
11	N	26.0022	11.17	QP	10.49	21.66	60.00	-38.34
12	N	26.0022	5.61	AVG	10.49	16.10	50.00	-33.90

6.1 Radiated Emissions

Temperature	26°C
Relative Humidity	73%
Atmospheric Pressure	1019mbar
Test date :	Sep 02, 2019
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength ($\mu\text{V}/\text{m}$)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 - 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	30 – 88	100	88 – 216	150	216 - 960	200	Above 960	500
		Frequency range (MHz)		Field Strength ($\mu\text{V}/\text{m}$)									
		30 – 88		100									
		88 – 216		150									
216 - 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level
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	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</p> <p>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <ul style="list-style-type: none"> ■ 1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%) <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A



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Test Mode 1:	USB Downloading Mode
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Test Mode 2:	Charging and Camera Mode
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Test Mode 3:	Charging and Video Mode
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Test Mode 4:	Charging and Audio Mode
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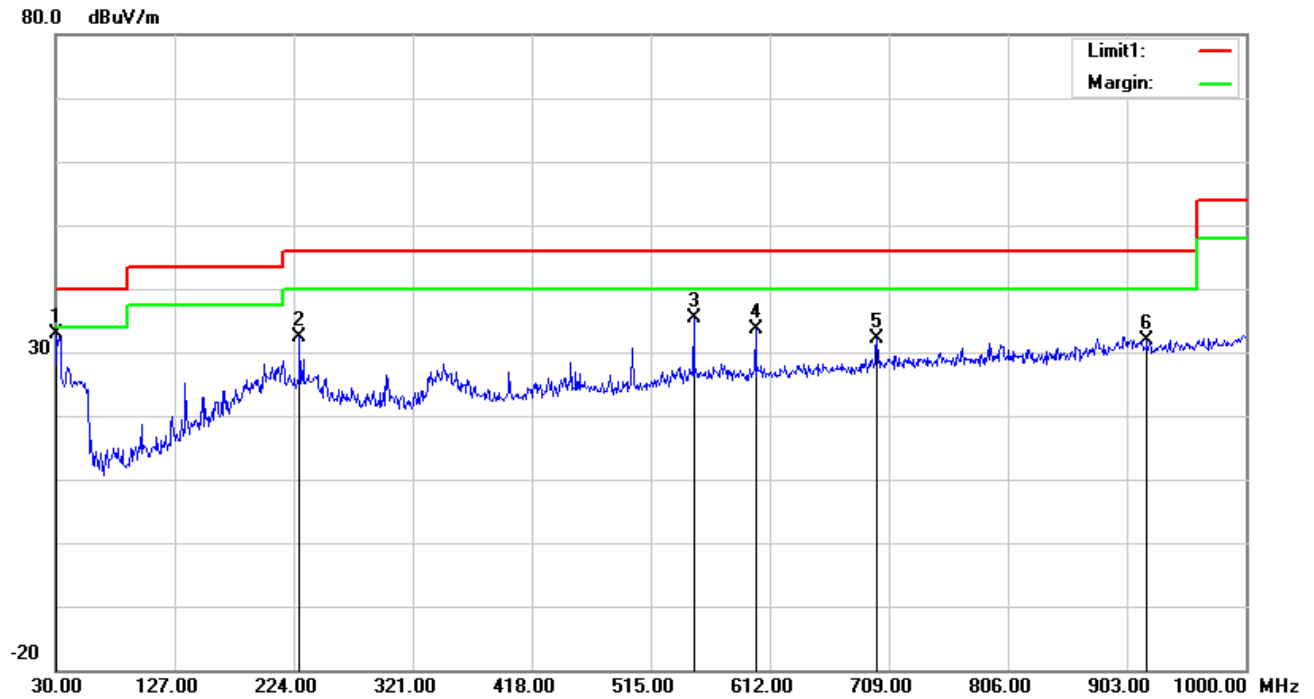
Test Mode 5:	Charging and FM Mode
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Note: 1, All above test modes were investigated. The results below show only the worst case.

2, The AC/DC adapter TPA-97050050U01& 50.069MX03 were investigated. The results below show only the worst case.

Test Mode 1: USB Downloading Mode (worst case)

Below 1GHz

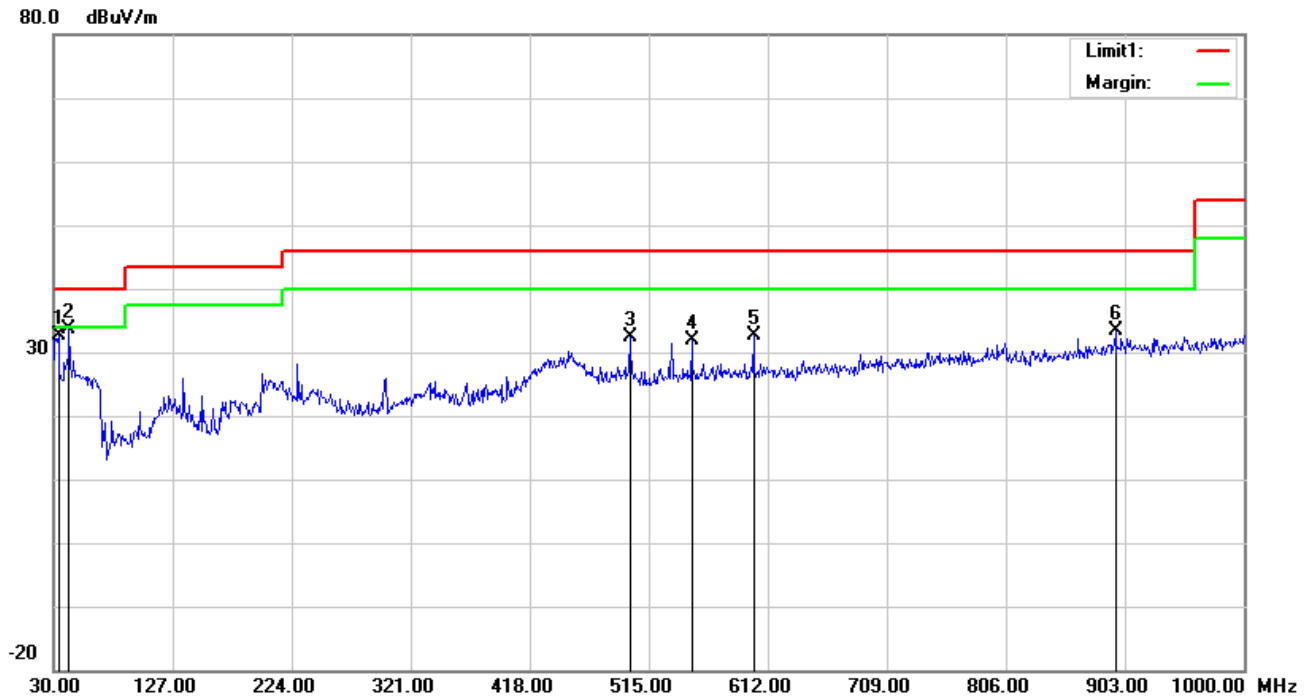


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	H	30.9700	35.54	19.48	22.27	0.13	32.88	40.00	-7.12	100	295
2	H	228.8500	41.75	11.48	22.33	1.58	32.48	46.00	-13.52	100	80
3	H	549.9200	35.48	19.30	21.70	2.27	35.35	46.00	-10.65	100	223
4	H	600.3600	32.66	20.30	21.58	2.31	33.69	46.00	-12.31	100	44
5	H	699.3000	29.70	21.47	21.36	2.41	32.22	46.00	-13.78	100	286
6	H	919.4900	26.64	23.51	20.84	2.67	31.98	46.00	-14.02	100	354

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	33.8800	37.06	17.62	22.26	0.15	32.57	40.00	-7.43	100	196
2	V	42.6100	44.64	11.08	22.29	0.20	33.63	40.00	-6.37	100	14
3	V	499.4800	33.32	18.69	21.81	2.13	32.33	46.00	-13.67	100	78
4	V	549.9200	31.96	19.30	21.70	2.27	31.83	46.00	-14.17	100	29
5	V	600.3600	31.53	20.30	21.58	2.31	32.56	46.00	-13.44	100	8
6	V	895.2400	28.02	23.69	20.89	2.65	33.47	46.00	-12.53	100	197

Above 1GHz

Worst case data (USB Downloading Mode)

Frequency (MHz)	Read_level (dB μ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector (PK/AV)
1049.9	38.61	344	100	H	-18.48	38.61	74	-35.39	PK
1049.9	24.93	32	100	H	-18.48	24.93	54	-29.07	AV
1335.5	39.05	38	100	H	-16.97	39.05	74	-34.95	PK
1335.5	25.13	95	100	H	-16.97	25.13	54	-28.87	AV
1077.5	38.62	190	100	V	-16.97	38.62	74	-35.38	PK
1077.5	25.34	1	100	V	-16.97	25.34	54	-28.66	AV
1495.2	38.89	78	100	V	-13.75	38.89	74	-35.11	PK
1495.2	25.64	126	100	V	-13.75	25.64	54	-28.36	AC

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to $5 \times 2480 \text{ MHz} = 12,400 \text{ MHz}$.

Note2: The frequency that above 3GHz is mainly from the environment noise.



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Annex A. TEST INSTRUMENT

Conducted Emission:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	8.471E+09	Apr. 04,19	Apr. 03,20
Artificial Mains Network	SCHWARZBECK	8127	8127713	Mar. 28,19	Mar. 27,20
ISN	Com-Power	ISN T800	34373	Mar. 28,19	Mar. 27,20
Test software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

RE& RSE

Frequency Range Below 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-100262-eQ	Apr. 04, 19	Apr. 03, 20
Bilog Antenna	Sunol Sciences	JB6	A110712	Apr. 08, 19	Apr. 07, 20
Active Antenna	CMO-POWER	AL-130	121031	Mar. 27, 19	Mar. 26, 20
Signal Amplifier	HP	8447E	443008	Mar. 28, 19	Mar. 27, 20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A



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RE& RSE

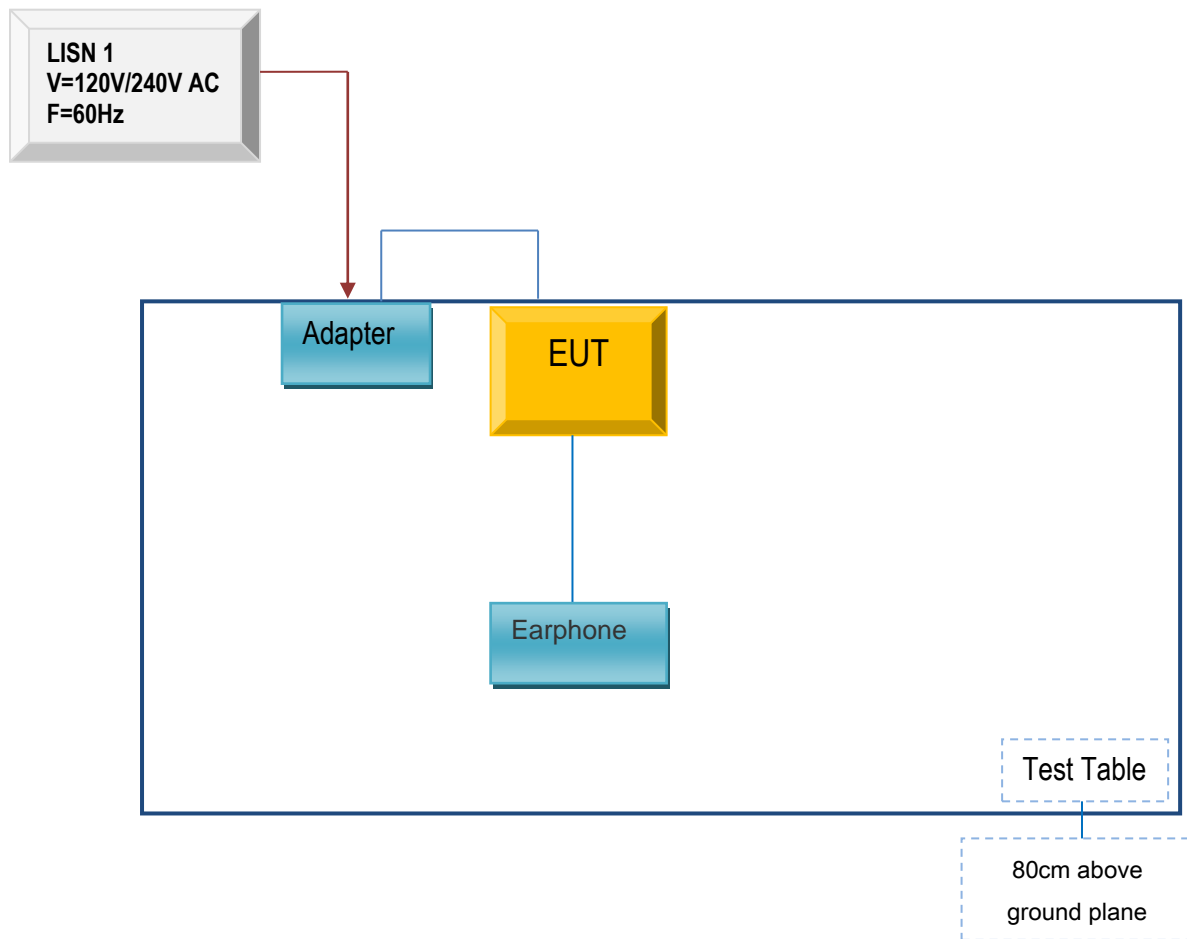
Frequency Range Above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum	Agilent	E4446A	MY46180622	8-May-19	7-May-20
MXA signal analyzer	Agilent	N9020A	MY49100060	Mar. 28, 19	Mar. 27, 20
Horn Antenna	COM-POWER	HAH-118	71259	Mar. 22, 19	Mar. 21, 20
Horn Antenna	COM-POWER	HAH-118	71283	Mar. 20, 19	Mar. 19, 20
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170147	Jun. 30, 19	Jun. 29, 20
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170242	Jun. 30, 19	Jun. 29, 20
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Mar. 28, 19	Mar. 27, 20
AMPLIFIER	Emc Instruments Corporation	Emc012645	980077	Jan. 04, 19	Jan. 03,20
3m Semi-anechoic	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

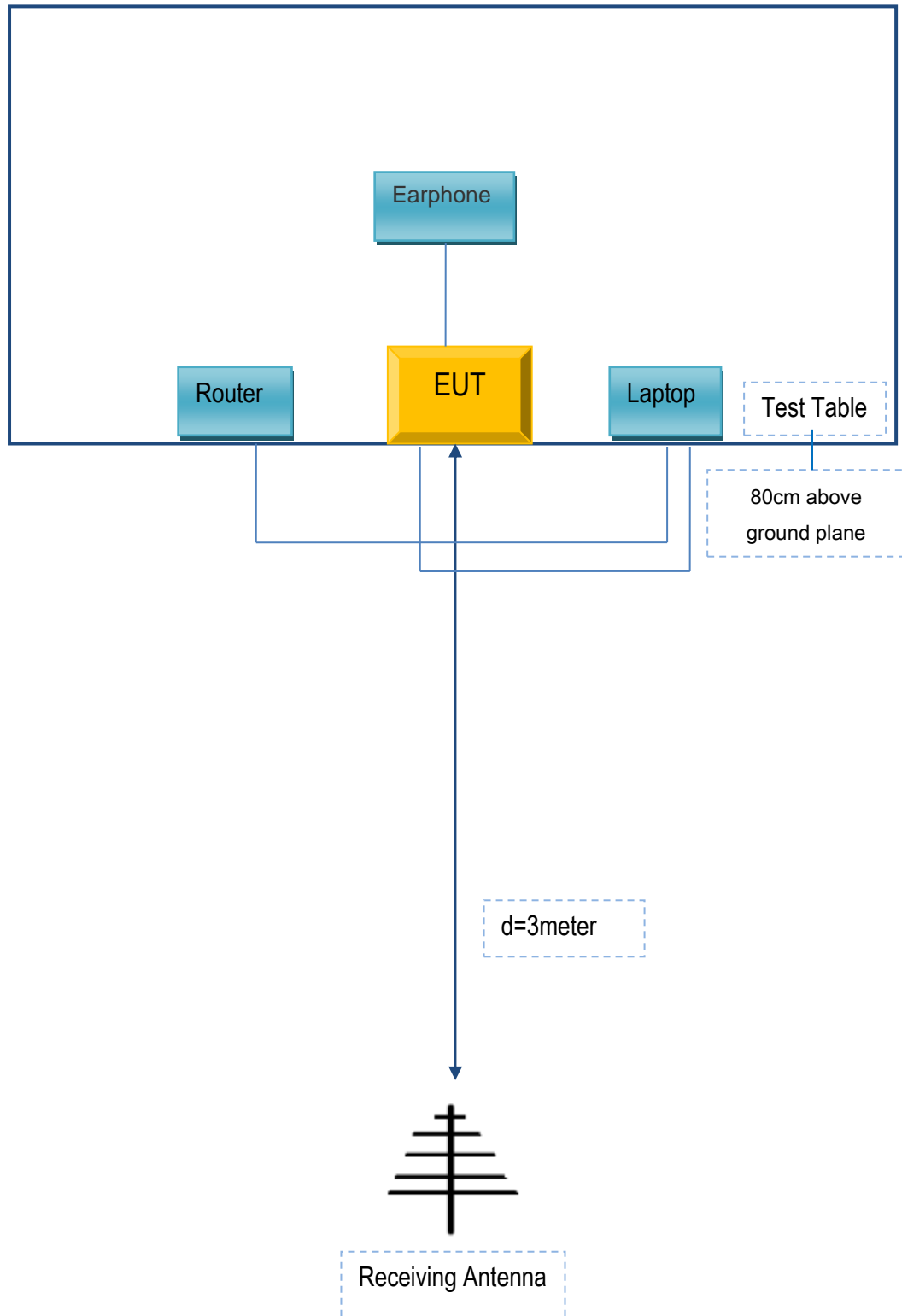
Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Cedar KingdomZTE Corporation	earphone	N/A	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
Router Power cable	Un-shielding	No	2m	13274630Z
Power Cable	Un-shielding	No	0.8m	GT211032



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**Annex C. User Manual / Block Diagram / Schematics / Partlist/
DECLARATION OF SIMILARITY**

Please see the attachment