



FCC Report


Application Purpose : Original grant
Applicant Name: : TECNO MOBILE LIMITED
FCC ID : 2ADYY-CXAIR
Equipment Type : Mobile phone
Model Name : CX Air
Report Number : FCC17030129A-4
Standard(S) : FCC Part 15 Subpart B
Date Of Receipt : March 13, 2017
Date Of Issue : March 27, 2017

Test By : 

(Daisy Qin)

Reviewed By : 

(Sol Qin)

Authorized by : 

(Michal Ling)

Prepared by : **QTC Certification & Testing Co., Ltd.**
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District,,Shenzhen,518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	March 27, 2017	Valid	Original Report

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1. GENERAL INFORMATION

Test Model	CX Air
Applicant	TECNO MOBILE LIMITED
Address	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China
Equipment Type	Mobile phone
Brand Name	TECNO
Hardware	V1.1
Software	CX Air-H3713B1-N-170209V2
Battery information:	Li-Polymer Battery : BL-32BT Voltage: 3.85V Capacity: 3200mAh Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: A8-501000 Input: 100~240V 50/60Hz 200mA Output: 5V~1A
Data of receipt	March 13, 2017
Date of test	March 13, 2017 to March 27 , 2017
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by QTC Certification & Testing Co., Ltd.

2nd Floor, BI Building, Fengyeyuan Industrial Plant, Liuxian 2st. Road, Xin'an Street, Bao'an District, Shenzhen, 518000

Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014. The sample tested as described in this report is in compliance with the FCC Rules Part 15 Subpart B.

The test results of this report relate only to the tested sample identified in this report.

2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

2.2 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.

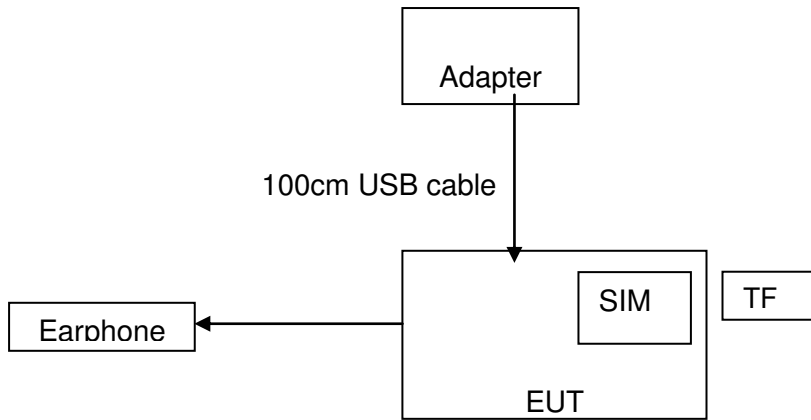
Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

For Conducted Emission	
Final Test Mode	Test with Keyboard and Mouse
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

For Radiated Emission	
Final Test Mode	Test with Keyboard and Mouse
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

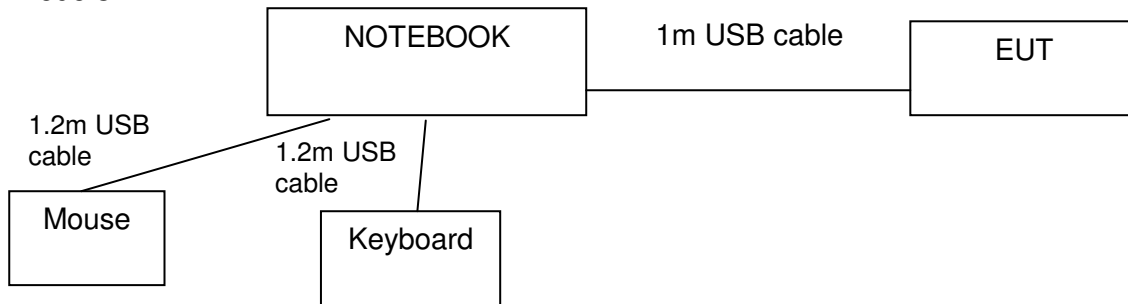
2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&4&5:



(EUT: Mobile phone)

Mode 3:



(EUT: Mobile phone)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Power	1	1m USB cable, unshielded	1
Earphone	1	1m USB cable, unshielded	1

2.4 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
1	Adapter	/	A8-501000	/	/
2	Keyboard	HP	SK-2880	435302-AA-	/
3	Mouse	DELL	MS111-1	/	/

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. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B			
Standard Section	Test Item	Judgment	Remark
15.107	CONDUCTED EMISSION	PASS	
15.109	RADIATED EMISSION	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

4. MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until
ESCI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
pre-amplifier	CDSI	PAP-1G18-38	--	08/19/2016	08/18/2017
System Controller	CT	SC100	-	08/19/2016	08/18/2017
Bi-log Antenna	Chase	CBL6111C	2576	08/19/2016	08/18/2017
Spectrum analyzer	R&S	FSU26	200409	08/19/2016	08/18/2017
Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2016	08/18/2017
Bi-log Antenna	SCHWARZBECK	VULB9163	9163/340	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
9*6*6 Anechoic	--	--	--	08/21/2016	08/20/2017

5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

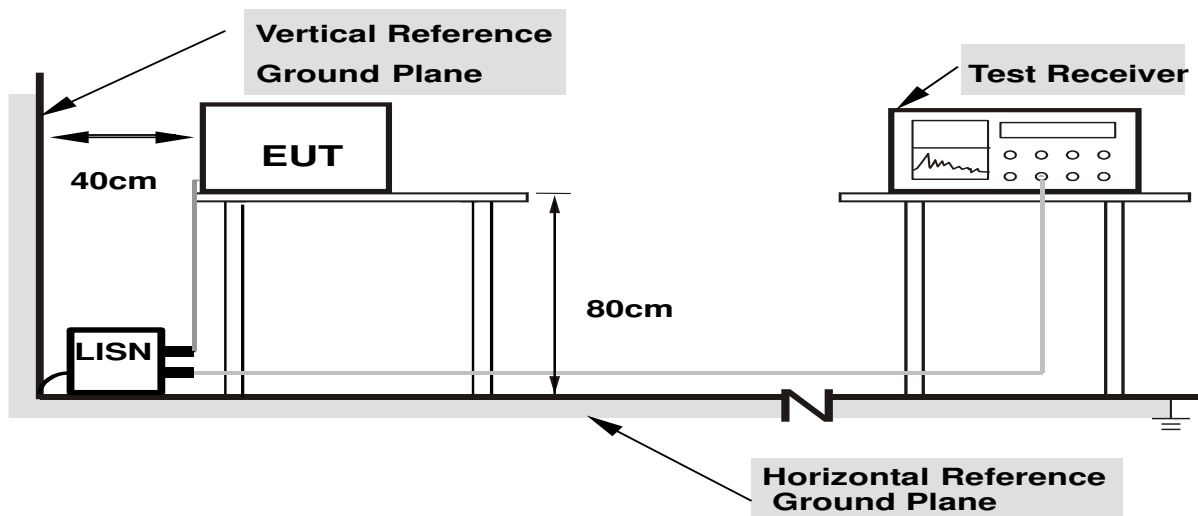
5.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected 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.
- 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 40 cm long.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



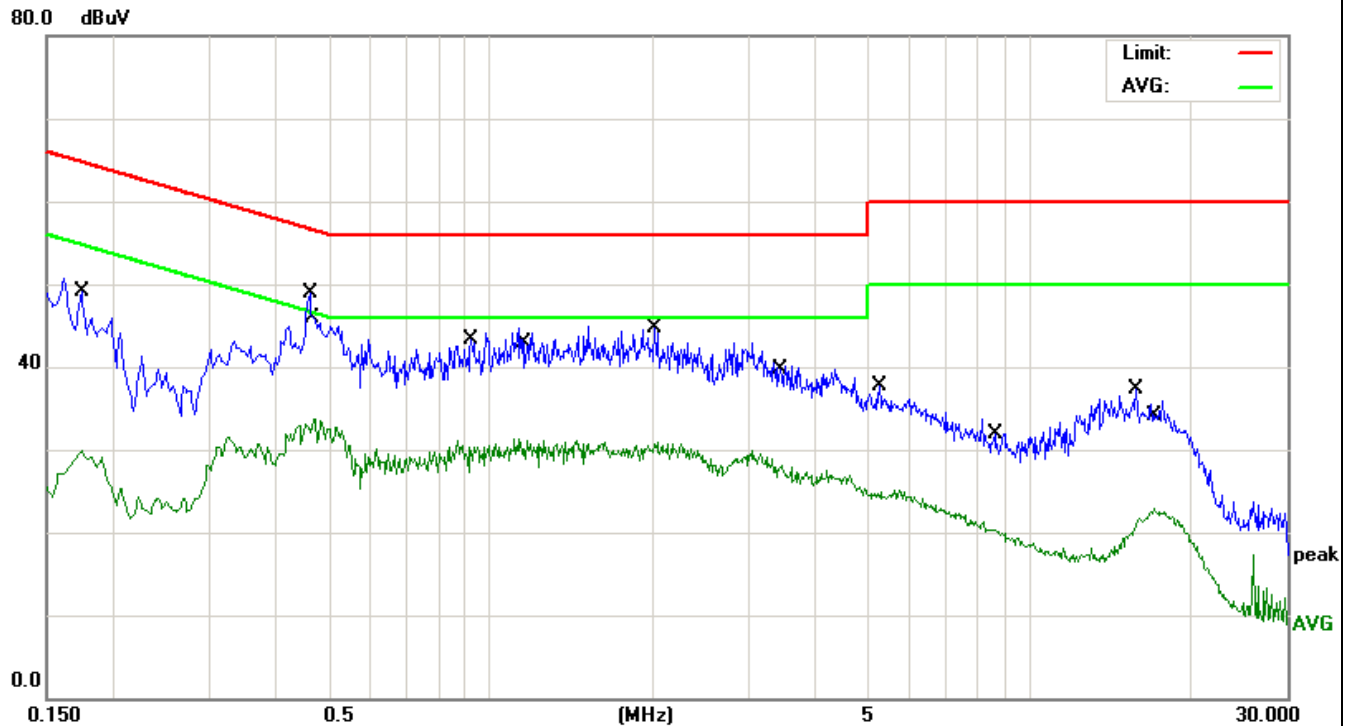
- Note: 1.Support units were connected to second LISN.**
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

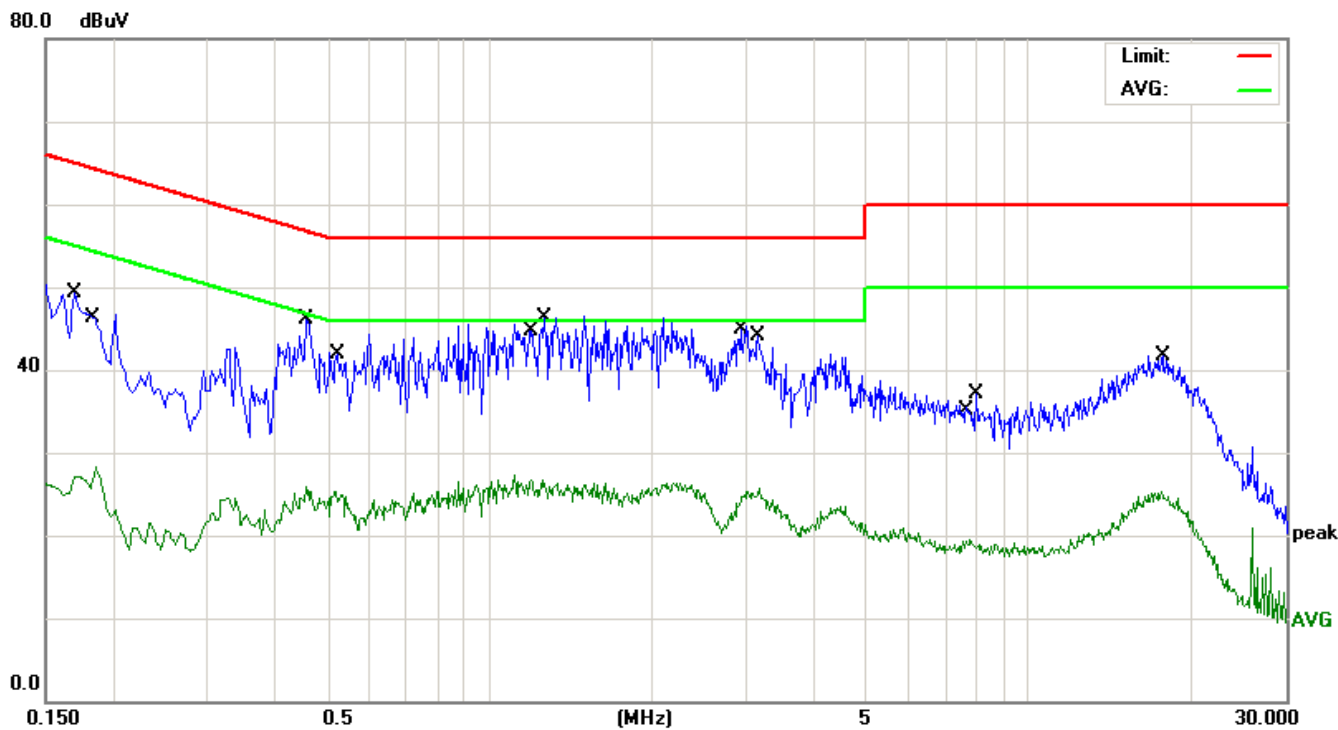
5.1.6 TEST RESULTS

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 1



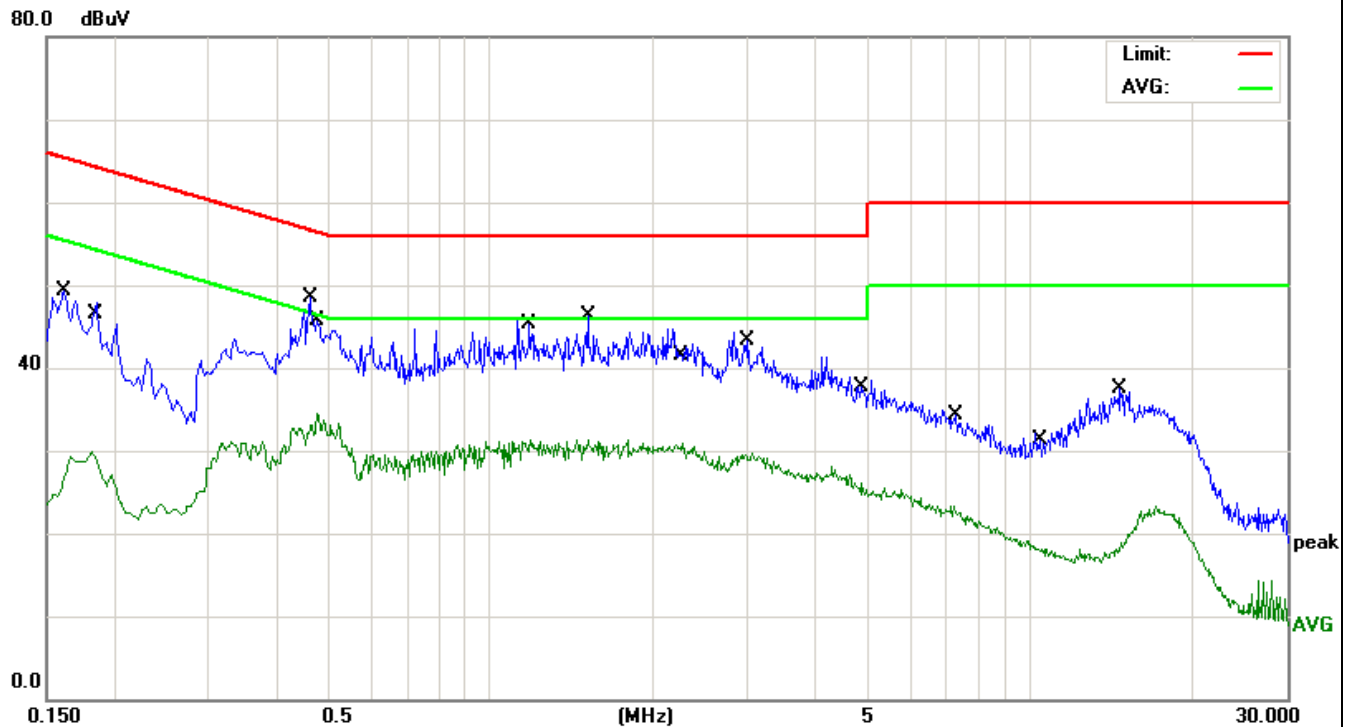
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1740	37.52	11.62	49.14	64.76	-15.62	QP
2		0.1740	18.26	11.62	29.88	54.76	-24.88	AVG
3	*	0.4620	38.10	10.77	48.87	56.66	-7.79	QP
4		0.4740	23.05	10.74	33.79	46.44	-12.65	AVG
5		0.9220	32.70	10.69	43.39	56.00	-12.61	QP
6		1.1700	20.42	10.67	31.09	46.00	-14.91	AVG
7		2.0140	34.15	10.61	44.76	56.00	-11.24	QP
8		3.4700	17.64	10.56	28.20	46.00	-17.80	AVG
9		5.2700	27.26	10.53	37.79	60.00	-22.21	QP
10		8.6700	9.60	10.60	20.20	50.00	-29.80	AVG
11		15.7900	26.64	10.63	37.27	60.00	-22.73	QP
12		16.9300	12.34	10.64	22.98	50.00	-27.02	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 1



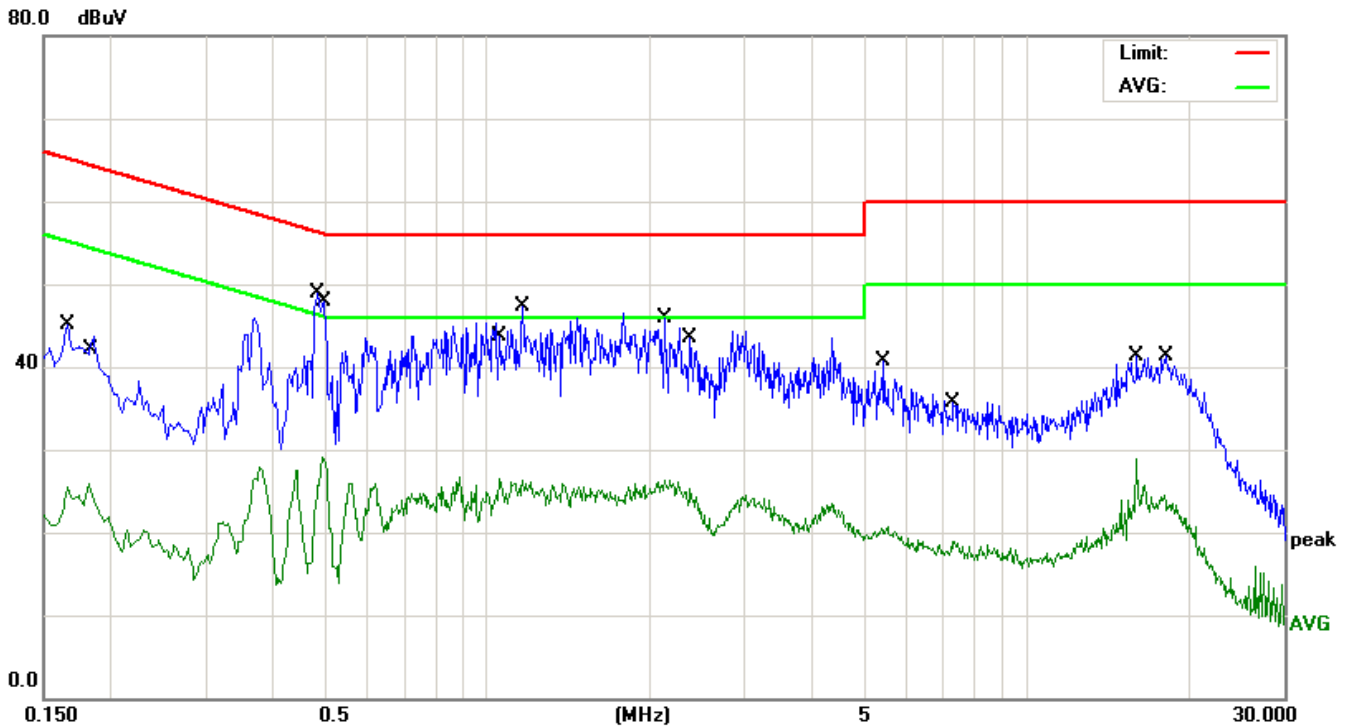
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	37.61	11.67	49.28	64.96	-15.68	QP
2		0.1860	16.89	11.44	28.33	54.21	-25.88	AVG
3		0.4580	35.38	10.77	46.15	56.73	-10.58	QP
4		0.5180	14.65	10.70	25.35	46.00	-20.65	AVG
5		1.1940	16.08	10.67	26.75	46.00	-19.25	AVG
6	*	1.2660	35.63	10.67	46.30	56.00	-9.70	QP
7		2.9300	34.26	10.57	44.83	56.00	-11.17	QP
8		3.1700	15.15	10.57	25.72	46.00	-20.28	AVG
9		7.7780	8.81	10.59	19.40	50.00	-30.60	AVG
10		8.0020	26.45	10.59	37.04	60.00	-22.96	QP
11		17.6580	14.61	10.63	25.24	50.00	-24.76	AVG
12		17.7220	31.02	10.63	41.65	60.00	-18.35	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 2



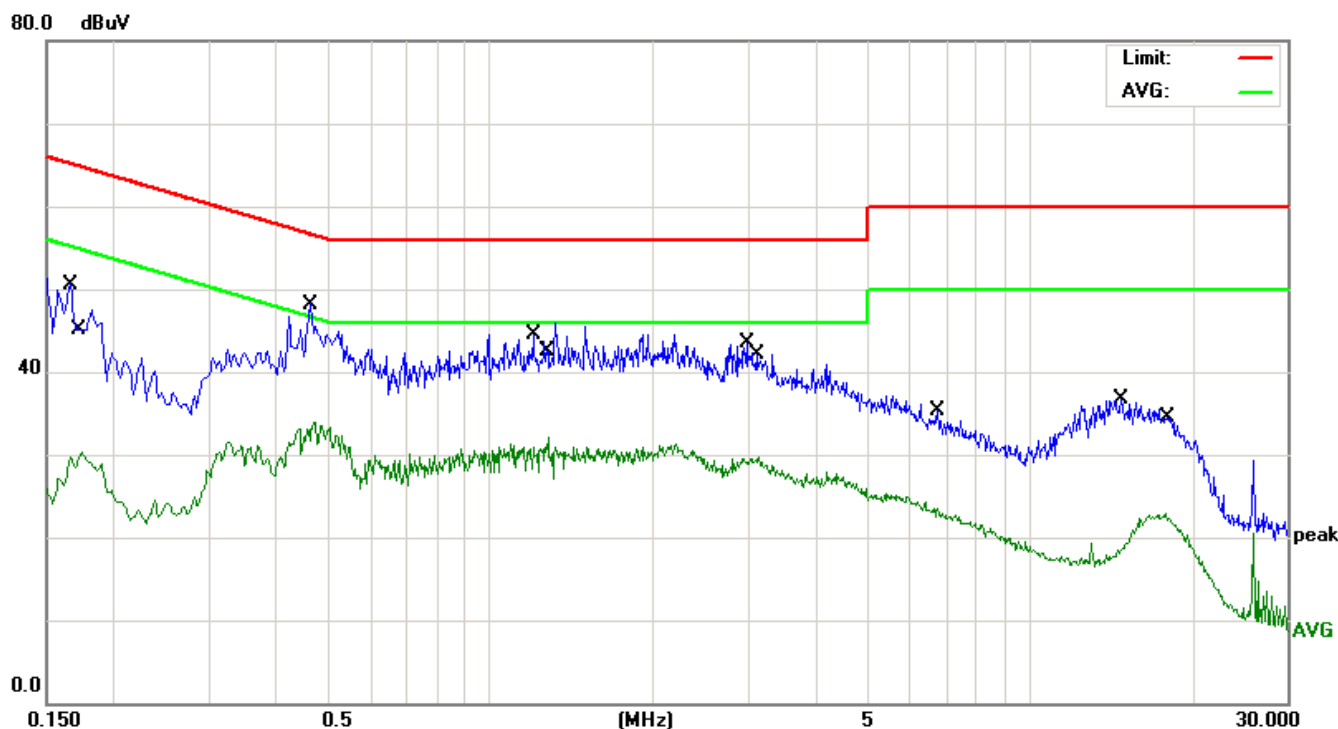
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1620	37.55	11.79	49.34	65.36	-16.02	QP
2		0.1819	18.36	11.50	29.86	54.39	-24.53	AVG
3	*	0.4620	37.63	10.77	48.40	56.66	-8.26	QP
4		0.4780	23.83	10.74	34.57	46.37	-11.80	AVG
5		1.1900	20.73	10.67	31.40	46.00	-14.60	AVG
6		1.5180	35.66	10.63	46.29	56.00	-9.71	QP
7		2.2700	20.31	10.60	30.91	46.00	-15.09	AVG
8		3.0020	32.76	10.57	43.33	56.00	-12.67	QP
9		4.8780	15.50	10.51	26.01	46.00	-19.99	AVG
10		7.3020	23.75	10.57	34.32	60.00	-25.68	QP
11		10.5540	7.45	10.61	18.06	50.00	-31.94	AVG
12		14.7220	26.95	10.63	37.58	60.00	-22.42	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 2



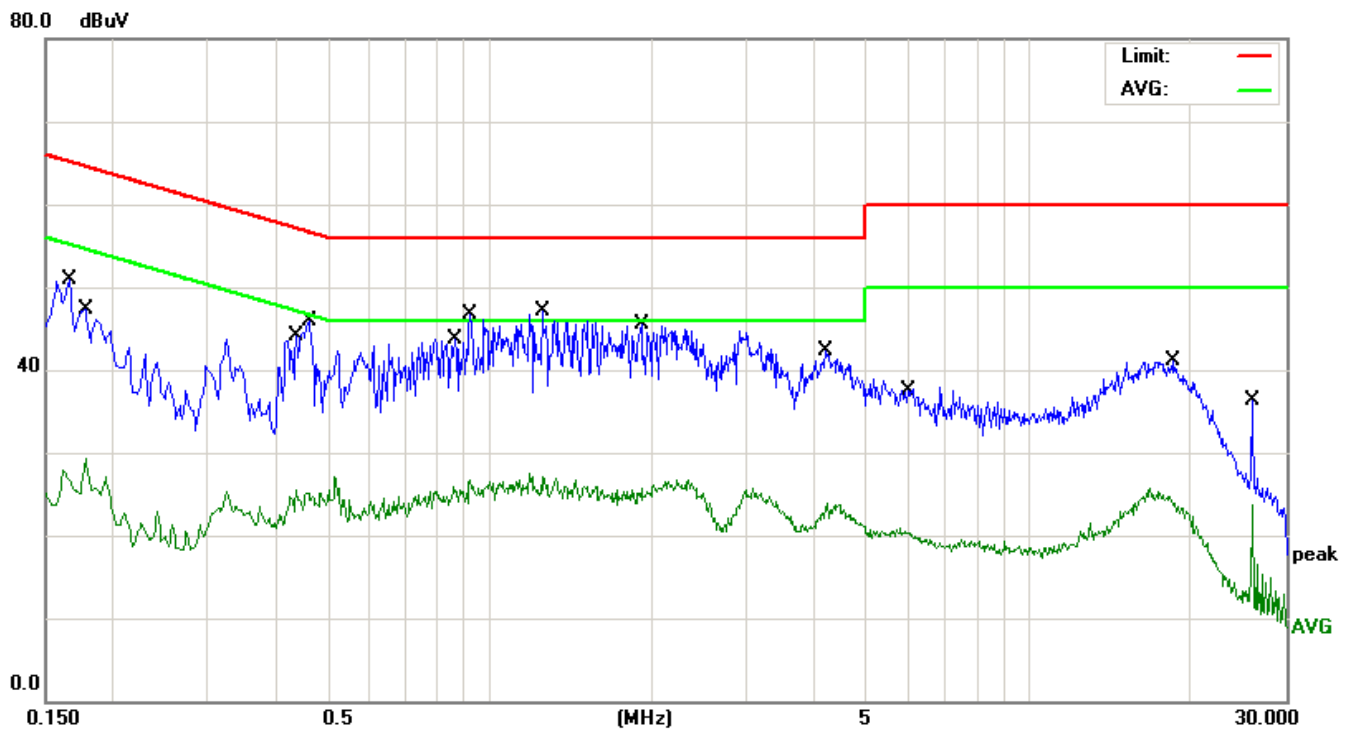
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	33.45	11.73	45.18	65.15	-19.97	QP
2		0.1819	14.45	11.50	25.95	54.39	-28.44	AVG
3	*	0.4860	38.13	10.72	48.85	56.24	-7.39	QP
4		0.4940	18.43	10.71	29.14	46.10	-16.96	AVG
5		1.0500	15.74	10.68	26.42	46.00	-19.58	AVG
6		1.1620	36.68	10.67	47.35	56.00	-8.65	QP
7		2.1260	35.21	10.61	45.82	56.00	-10.18	QP
8		2.3740	14.77	10.60	25.37	46.00	-20.63	AVG
9		5.4380	30.08	10.53	40.61	60.00	-19.39	QP
10		7.3420	8.39	10.57	18.96	50.00	-31.04	AVG
11		15.9540	18.26	10.62	28.88	50.00	-21.12	AVG
12		18.1860	30.68	10.63	41.31	60.00	-18.69	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 3



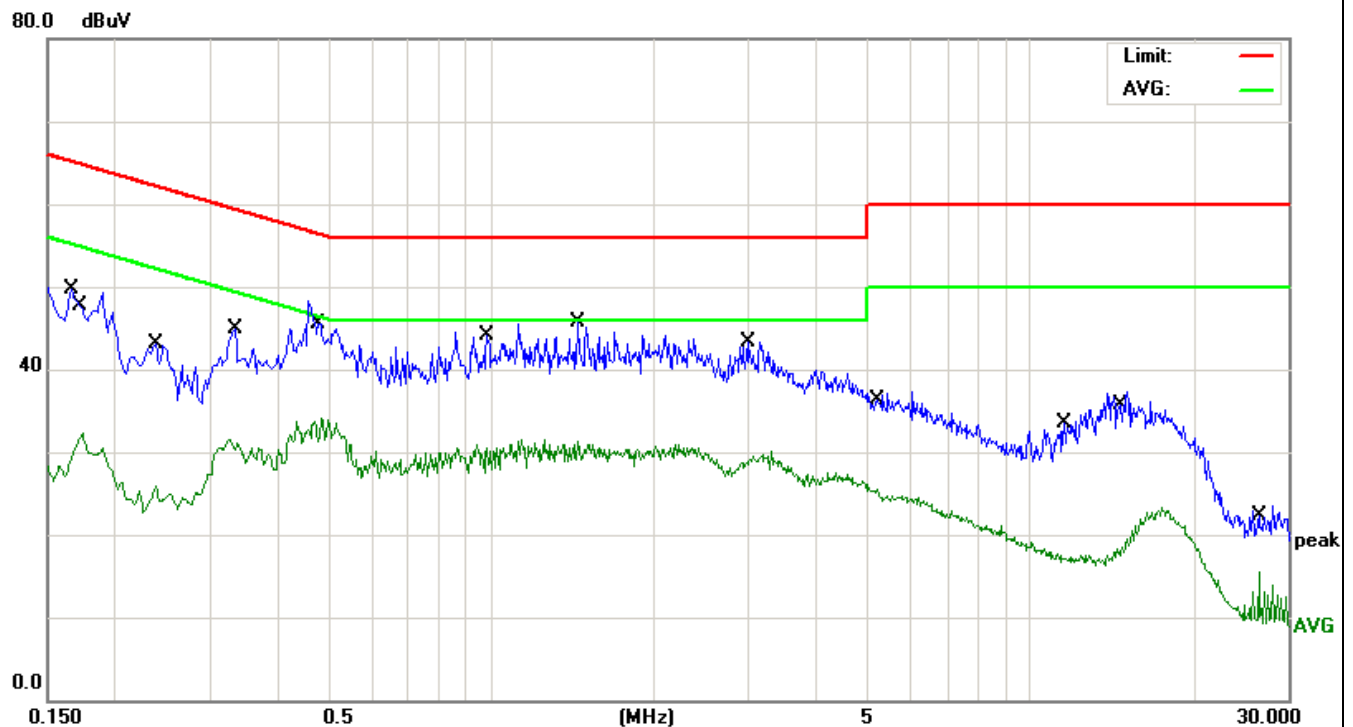
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	38.87	11.73	50.60	65.15	-14.55	QP
2		0.1740	18.65	11.62	30.27	54.76	-24.49	AVG
3	*	0.4620	37.43	10.77	48.20	56.66	-8.46	QP
4		0.4700	23.07	10.75	33.82	46.51	-12.69	AVG
5		1.2020	33.85	10.67	44.52	56.00	-11.48	QP
6		1.2820	21.45	10.67	32.12	46.00	-13.88	AVG
7		2.9820	33.01	10.57	43.58	56.00	-12.42	QP
8		3.1500	19.12	10.57	29.69	46.00	-16.31	AVG
9		6.7420	24.84	10.56	35.40	60.00	-24.60	QP
10		6.7700	12.34	10.58	22.92	50.00	-27.08	AVG
11		14.8100	26.03	10.63	36.66	60.00	-23.34	QP
12		17.8940	12.27	10.63	22.90	50.00	-27.10	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 3



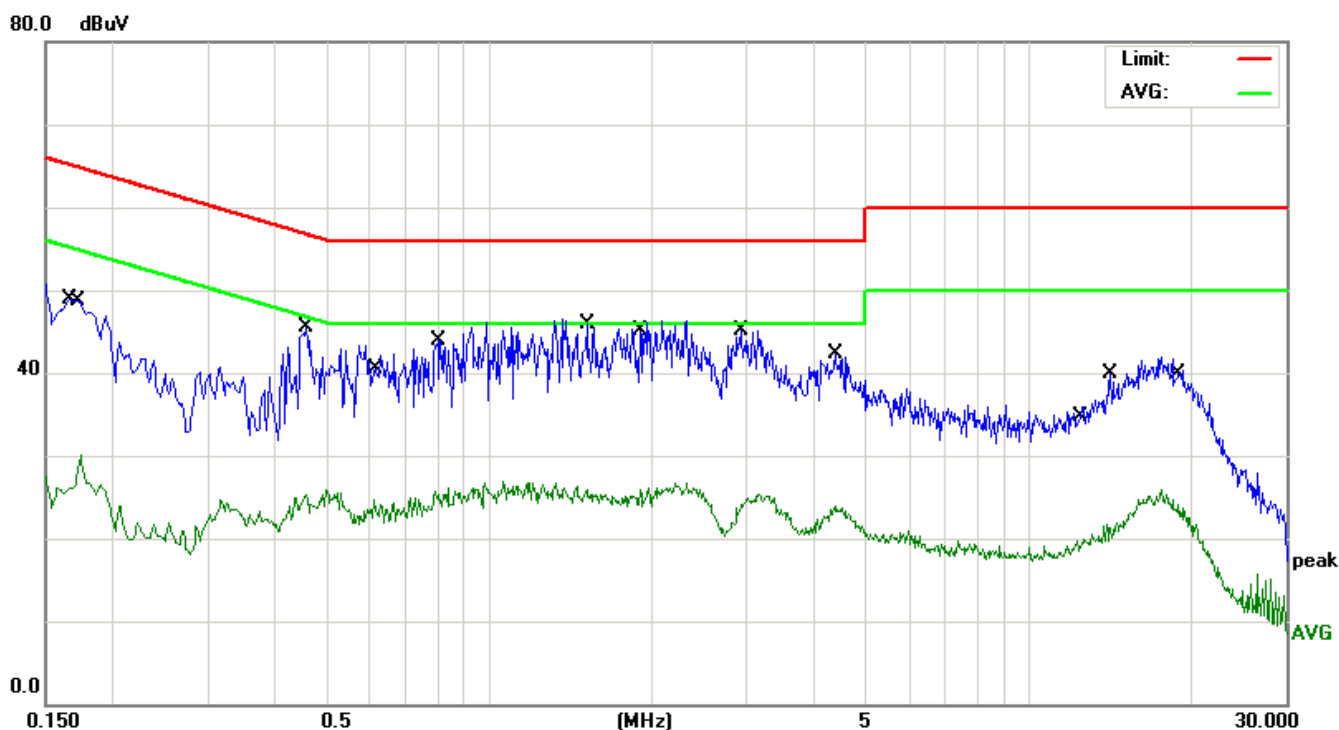
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	39.25	11.73	50.98	65.15	-14.17	QP
2		0.1780	17.72	11.56	29.28	54.57	-25.29	AVG
3		0.4380	14.61	10.82	25.43	47.10	-21.67	AVG
4		0.4620	35.18	10.77	45.95	56.66	-10.71	QP
5		0.8580	15.26	10.70	25.96	46.00	-20.04	AVG
6	*	0.9220	35.99	10.69	46.68	56.00	-9.32	QP
7		1.2540	16.49	10.67	27.16	46.00	-18.84	AVG
8		1.9180	34.97	10.61	45.58	56.00	-10.42	QP
9		4.2619	31.23	10.52	41.75	56.00	-14.25	QP
10		5.9780	9.76	10.54	20.30	50.00	-29.70	AVG
11		18.5459	30.39	10.63	41.02	60.00	-18.98	QP
12		26.0020	12.97	10.64	23.61	50.00	-26.39	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 4



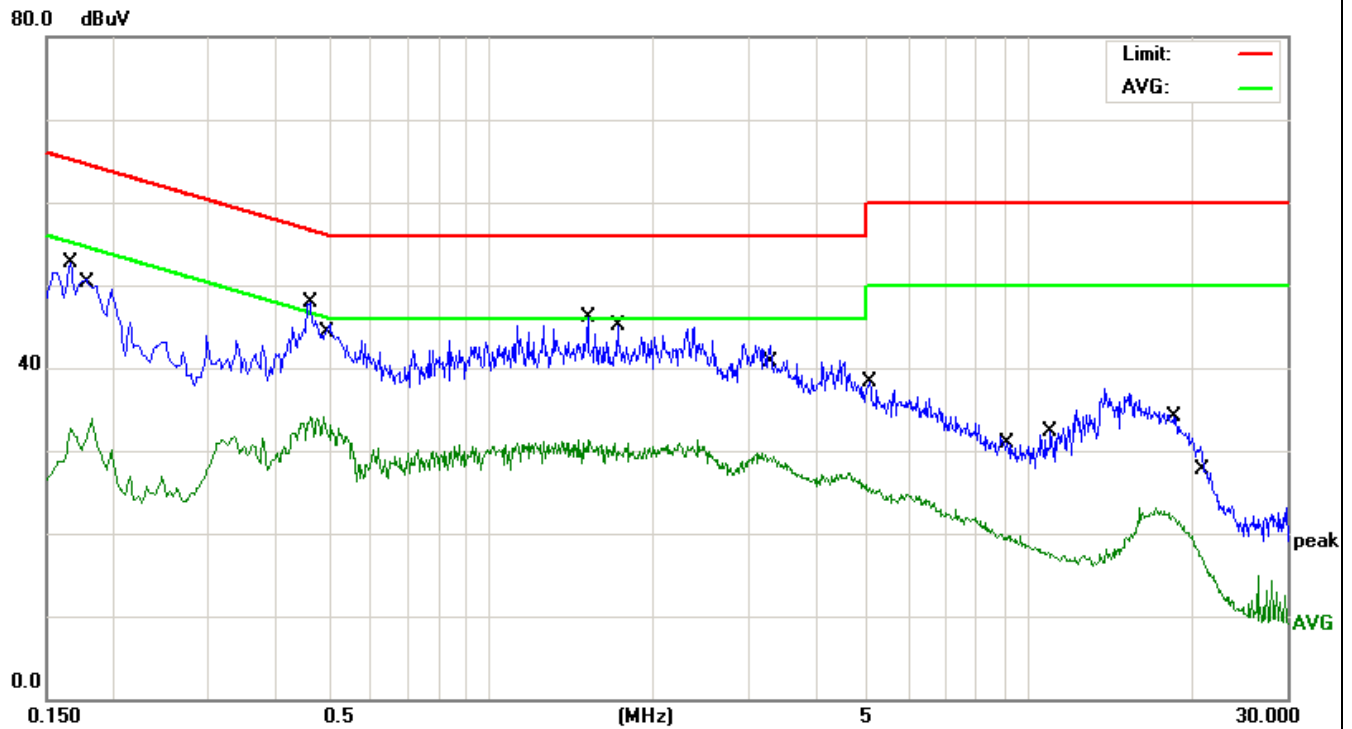
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	37.90	11.73	49.63	65.15	-15.52	QP
2		0.1740	20.62	11.62	32.24	54.76	-22.52	AVG
3		0.2380	32.00	11.16	43.16	62.16	-19.00	QP
4		0.3339	33.93	11.00	44.93	59.35	-14.42	QP
5		0.4820	23.30	10.73	34.03	46.30	-12.27	AVG
6	*	0.9820	33.51	10.68	44.19	56.00	-11.81	QP
7		1.4420	20.64	10.66	31.30	46.00	-14.70	AVG
8		2.9820	32.74	10.57	43.31	56.00	-12.69	QP
9		5.1740	15.05	10.51	25.56	50.00	-24.44	AVG
10		11.5060	22.97	10.62	33.59	60.00	-26.41	QP
11		14.4700	7.63	10.63	18.26	50.00	-31.74	AVG
12		26.4820	4.91	10.66	15.57	50.00	-34.43	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 4



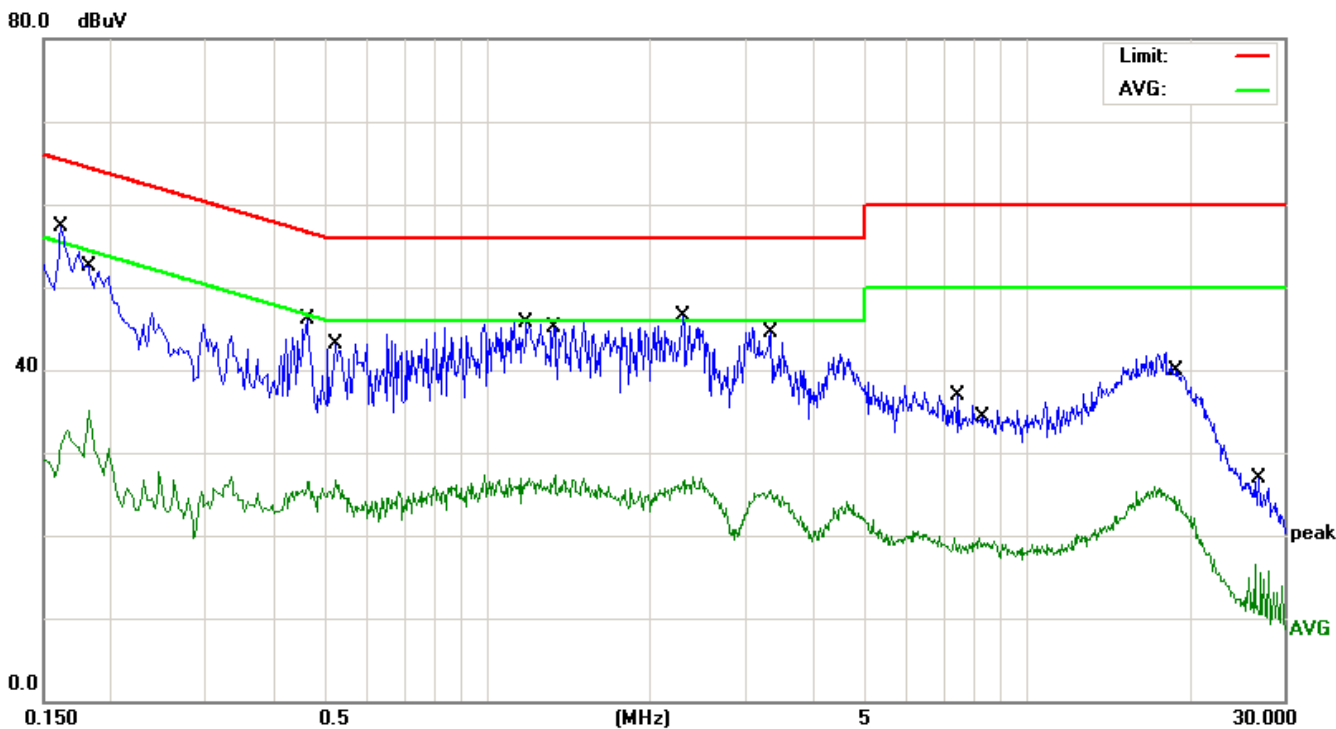
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	37.14	11.73	48.87	65.15	-16.28	QP
2		0.1740	18.41	11.62	30.03	54.76	-24.73	AVG
3		0.4580	34.75	10.77	45.52	56.73	-11.21	QP
4		0.6100	13.95	10.71	24.66	46.00	-21.34	AVG
5		0.8020	33.19	10.70	43.89	56.00	-12.11	QP
6	*	1.5180	35.31	10.63	45.94	56.00	-10.06	QP
7		1.9020	15.21	10.61	25.82	46.00	-20.18	AVG
8		2.9300	34.60	10.57	45.17	56.00	-10.83	QP
9		4.3859	13.41	10.52	23.93	46.00	-22.07	AVG
10		12.3060	9.13	10.61	19.74	50.00	-30.26	AVG
11		14.1740	29.33	10.62	39.95	60.00	-20.05	QP
12		18.9820	13.53	10.65	24.18	50.00	-25.82	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	40.96	11.73	52.69	65.15	-12.46	QP
2		0.1819	22.31	11.50	33.81	54.39	-20.58	AVG
3	*	0.4620	37.08	10.77	47.85	56.66	-8.81	QP
4		0.4900	23.46	10.72	34.18	46.17	-11.99	AVG
5		1.5140	35.48	10.63	46.11	56.00	-9.89	QP
6		1.7060	20.33	10.62	30.95	46.00	-15.05	AVG
7		3.3460	18.68	10.56	29.24	46.00	-16.76	AVG
8		5.0580	27.84	10.51	38.35	60.00	-21.65	QP
9		9.1340	9.19	10.60	19.79	50.00	-30.21	AVG
10		10.9300	21.76	10.62	32.38	60.00	-27.62	QP
11		18.5780	23.38	10.63	34.01	60.00	-25.99	QP
12		21.1940	5.41	10.64	16.05	50.00	-33.95	AVG

EUT	Mobile phone	Model Name	CX Air
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 5



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1620	45.43	11.79	57.22	65.36	-8.14	QP
2		0.1819	23.52	11.50	35.02	54.39	-19.37	AVG
3		0.4620	35.35	10.77	46.12	56.66	-10.54	QP
4		0.5220	15.93	10.70	26.63	46.00	-19.37	AVG
5		1.1820	35.09	10.67	45.76	56.00	-10.24	QP
6		1.3340	16.61	10.66	27.27	46.00	-18.73	AVG
7		2.2980	35.82	10.60	46.42	56.00	-9.58	QP
8		3.3500	15.02	10.56	25.58	46.00	-20.42	AVG
9		7.4500	26.28	10.57	36.85	60.00	-23.15	QP
10		8.1860	9.05	10.58	19.63	50.00	-30.37	AVG
11		19.2099	13.57	10.64	24.21	50.00	-25.79	AVG
12		26.8500	16.17	10.68	26.85	60.00	-33.15	QP

5.2 RADIATED EMISSION MEASUREMENT

5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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 / 1Hz 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

5.2.2 TEST PROCEDURE

- a. 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.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

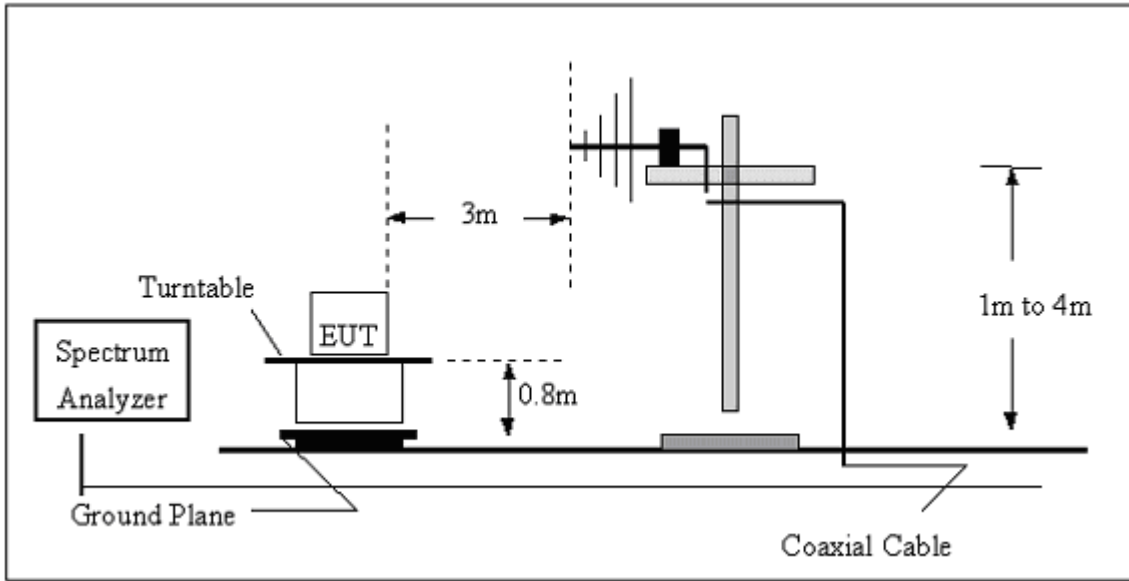
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

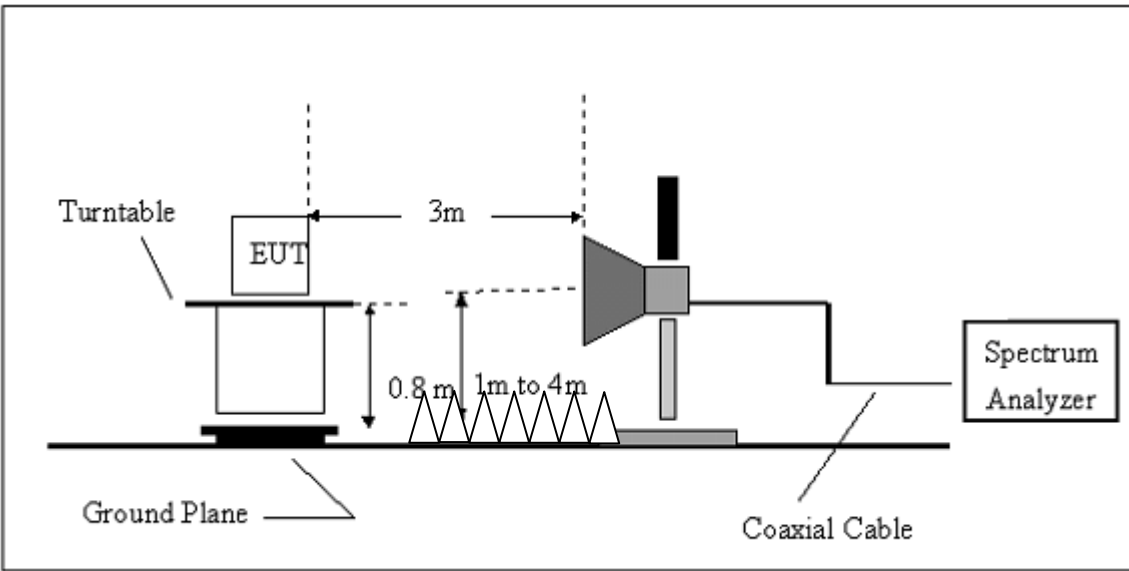
No deviation

5.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz

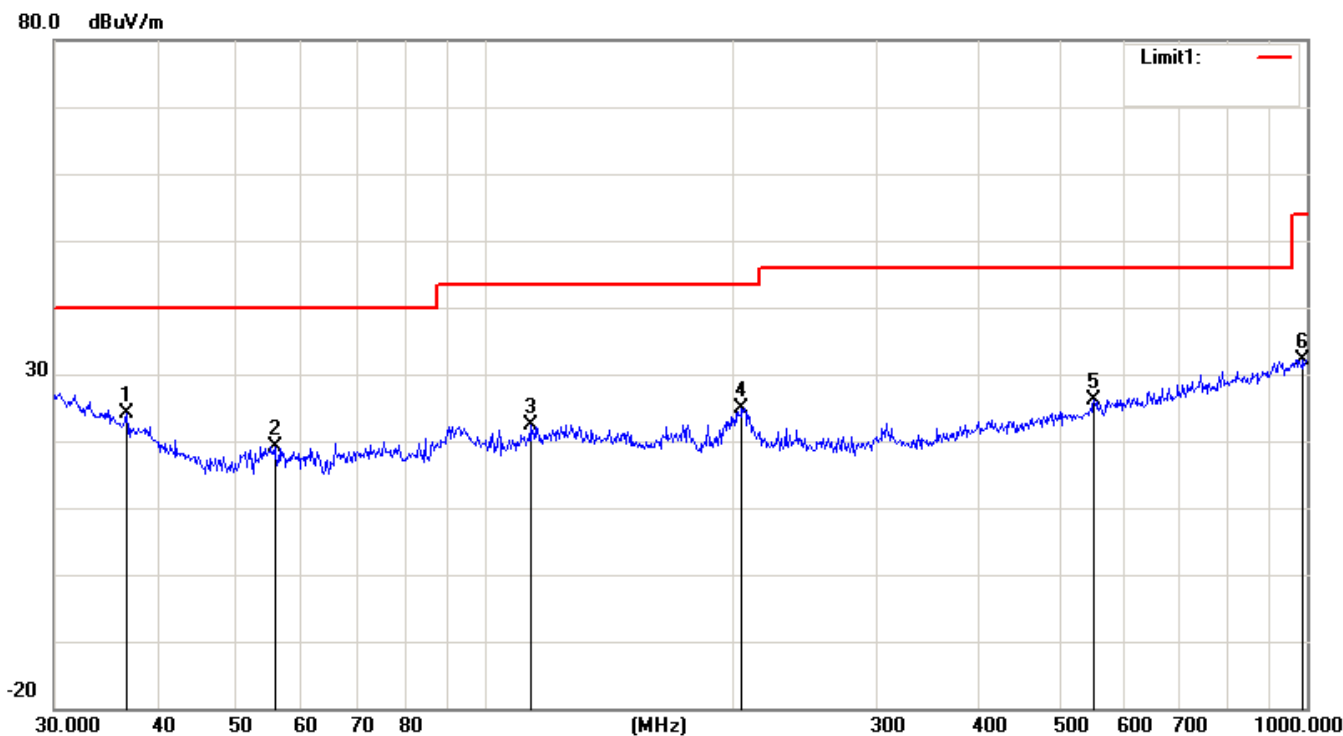


5.2.5 EUT OPERATING CONDITIONS

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.

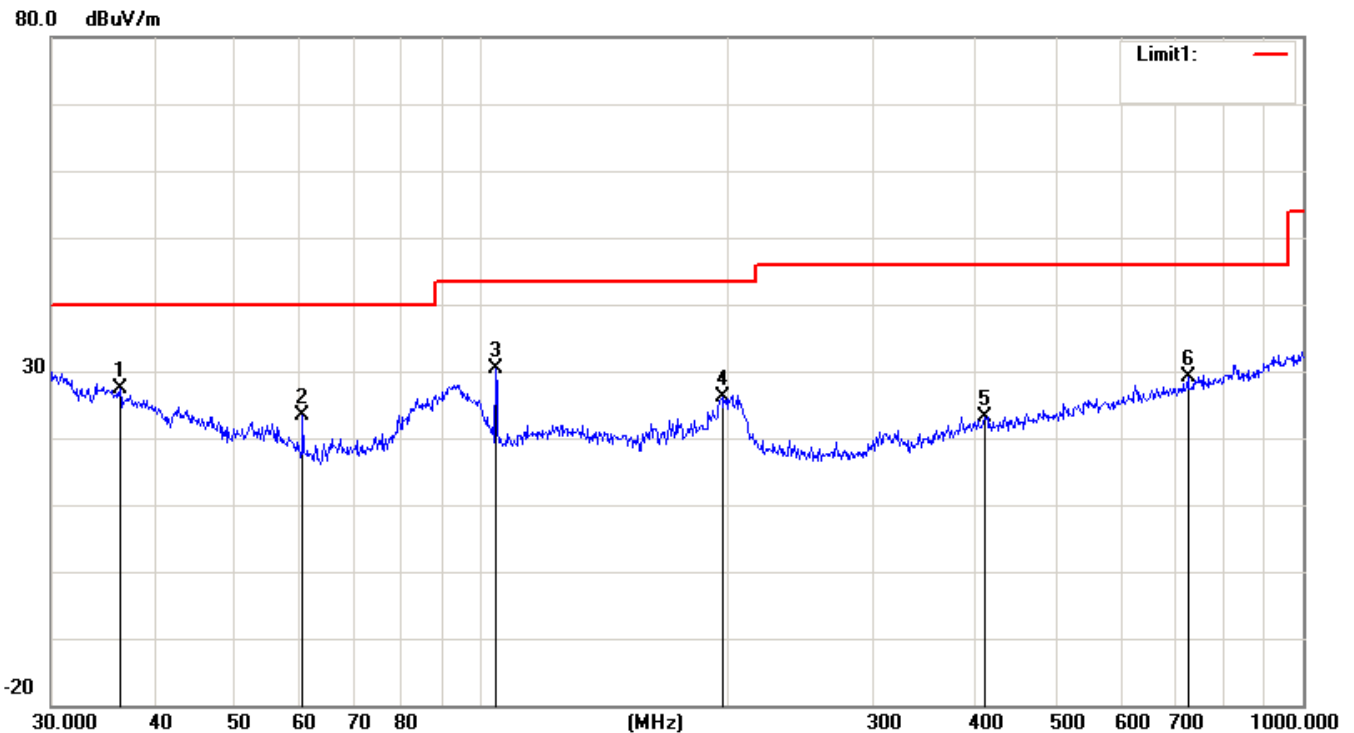
5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	March 15, 2017



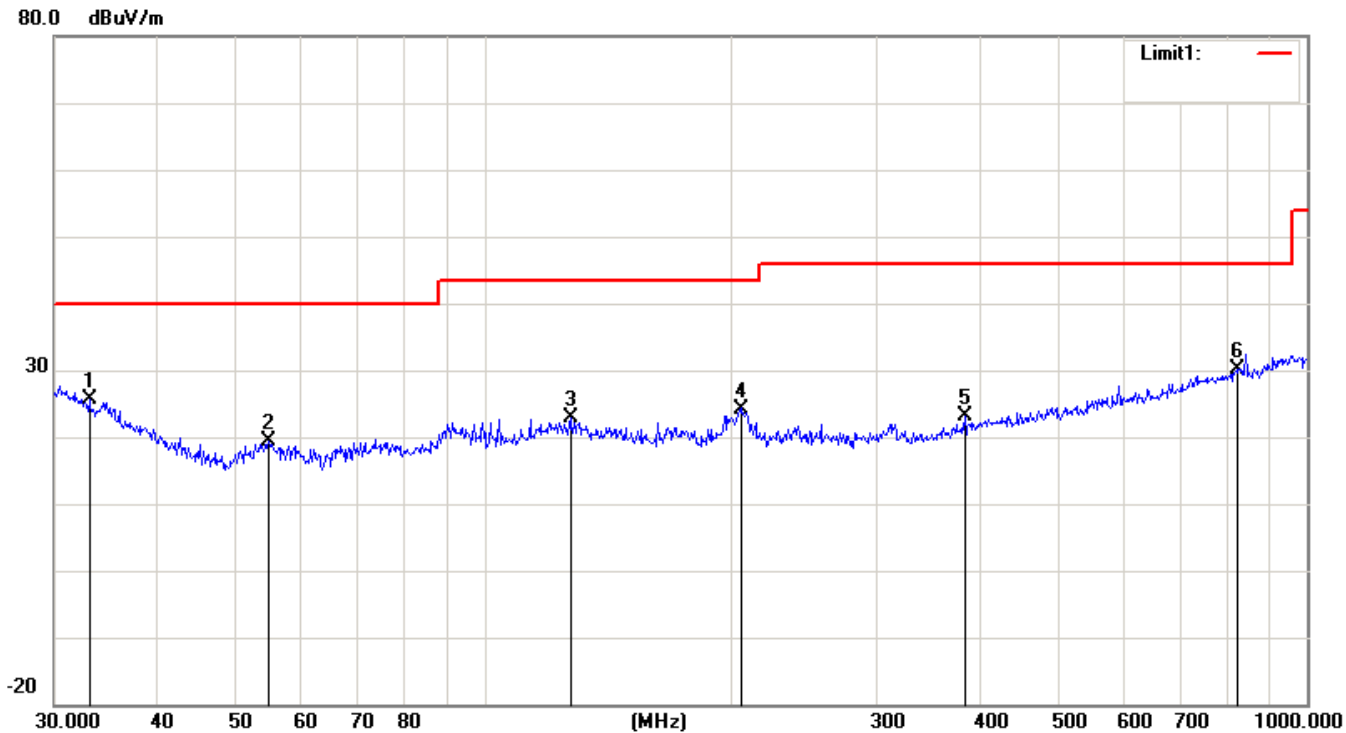
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	36.7662	25.40	-1.16	24.24	40.00	-15.76	QP
2		55.6094	28.67	-9.49	19.18	40.00	-20.82	QP
3		113.7143	25.35	-2.97	22.38	43.50	-21.12	QP
4		205.6751	29.83	-5.03	24.80	43.50	-18.70	QP
5		550.9480	25.78	0.46	26.24	46.00	-19.76	QP
6		989.5355	10.10	22.11	32.21	54.00	-21.79	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	March 15, 2017



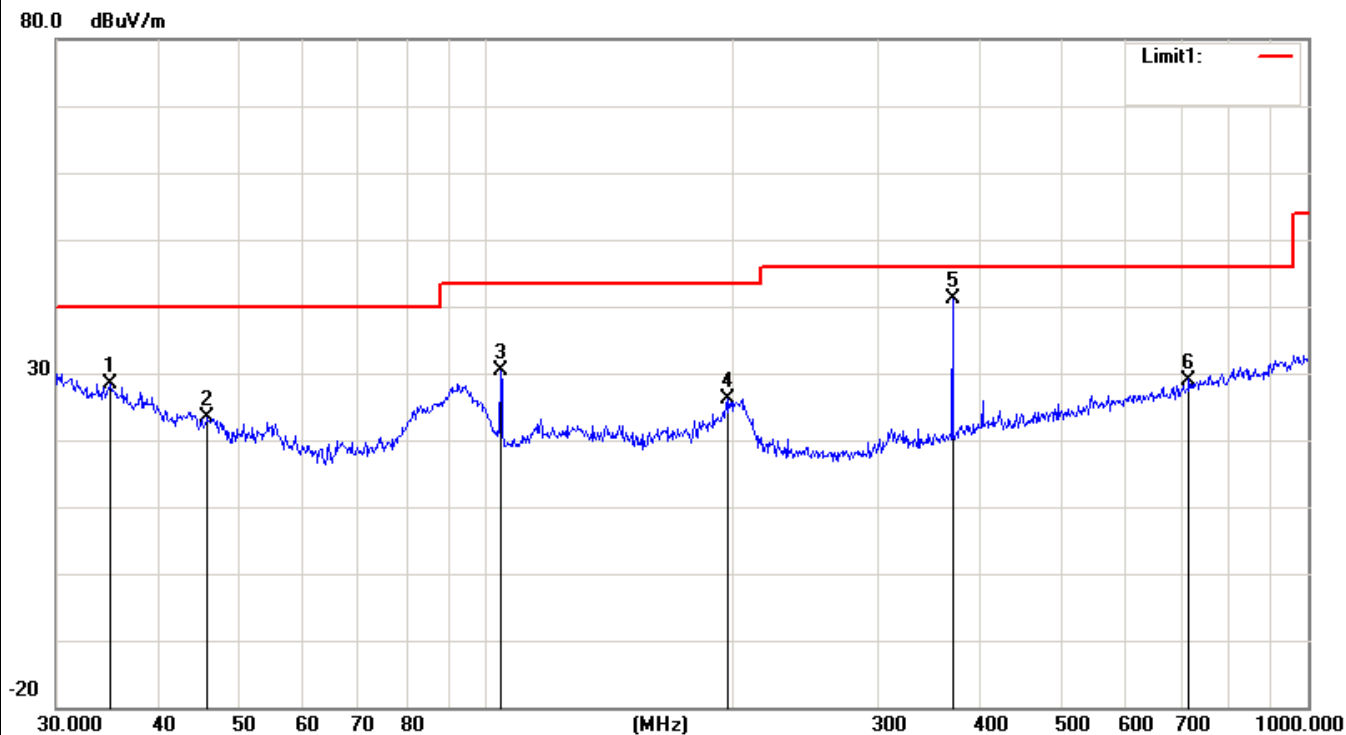
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	36.3814	28.14	-0.87	27.27	40.00	-12.73	QP
2		60.7044	32.62	-9.30	23.32	40.00	-16.68	QP
3		104.1701	35.53	-5.18	30.35	43.50	-13.15	QP
4		196.5098	31.33	-5.16	26.17	43.50	-17.33	QP
5		410.3825	25.08	-1.96	23.12	46.00	-22.88	QP
6		724.2611	26.08	3.10	29.18	46.00	-16.82	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	March 15, 2017



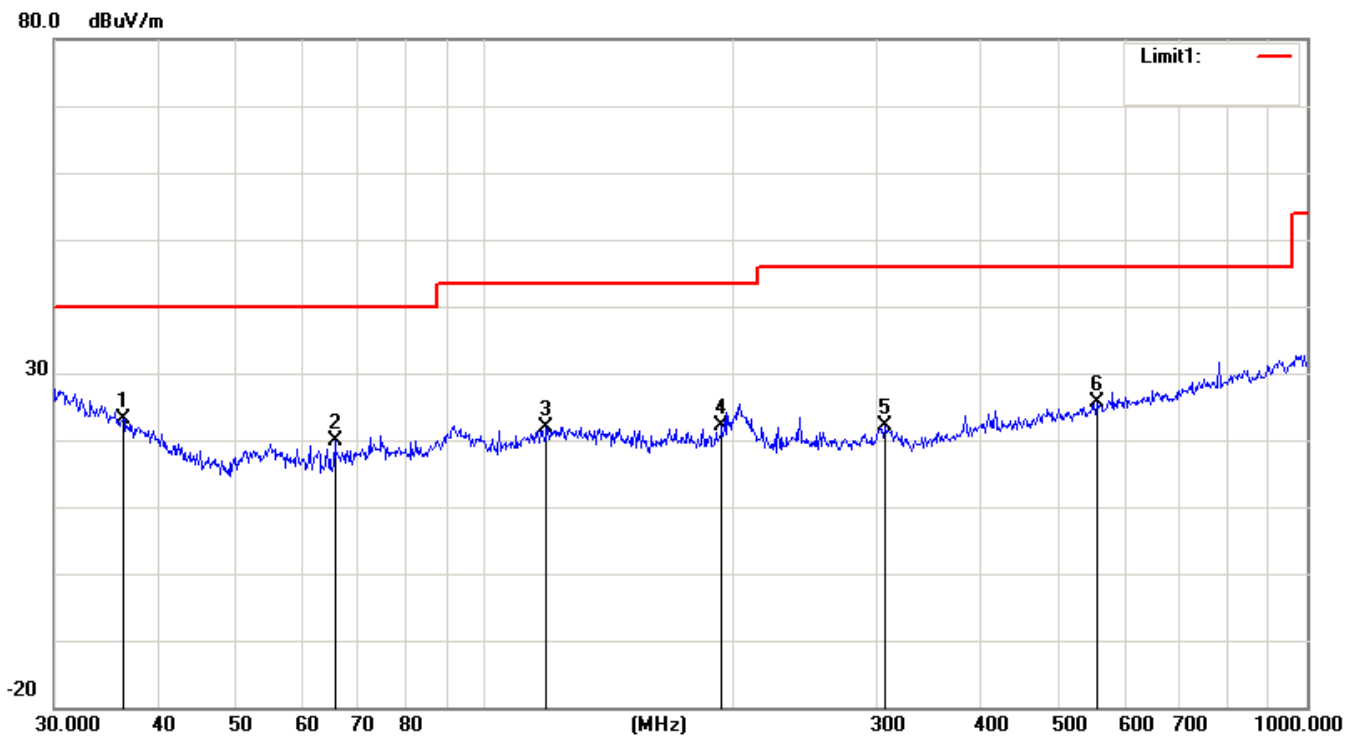
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	33.0950	24.30	1.41	25.71	40.00	-14.29	QP
2		54.6429	28.88	-9.47	19.41	40.00	-20.59	QP
3		127.2176	25.01	-2.16	22.85	43.50	-20.65	QP
4		204.9551	29.25	-5.00	24.25	43.50	-19.25	QP
5		383.9318	26.16	-3.14	23.02	46.00	-22.98	QP
6		824.5968	25.05	5.15	30.20	46.00	-15.80	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	March 15, 2017



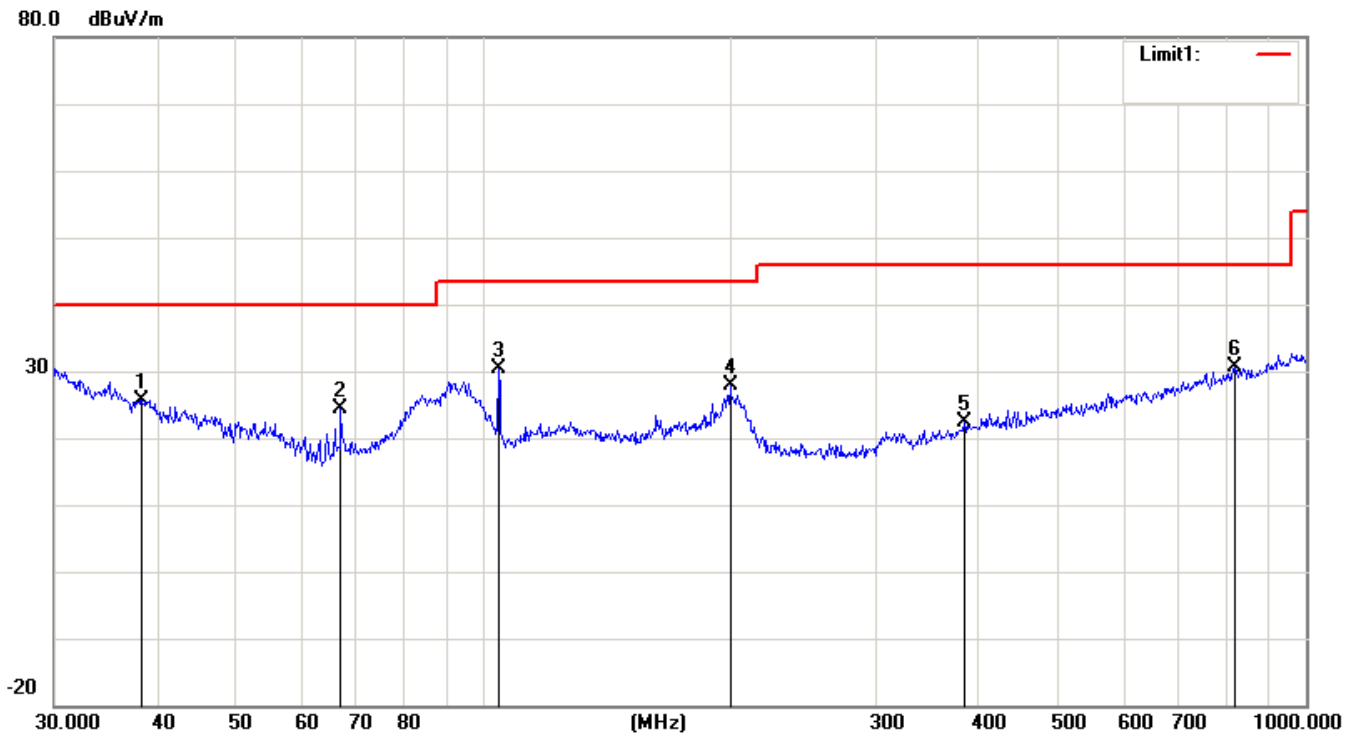
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		34.8823	28.20	0.21	28.41	40.00	-11.59	QP
2		45.8553	30.54	-7.11	23.43	40.00	-16.57	QP
3		104.1701	35.53	-5.18	30.35	43.50	-13.15	QP
4		196.5098	31.29	-5.16	26.13	43.50	-17.37	QP
5	*	369.4047	44.84	-3.63	41.21	46.00	-4.79	QP
6		716.6820	26.10	2.90	29.00	46.00	-17.00	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 3	Test Date	March 15, 2017



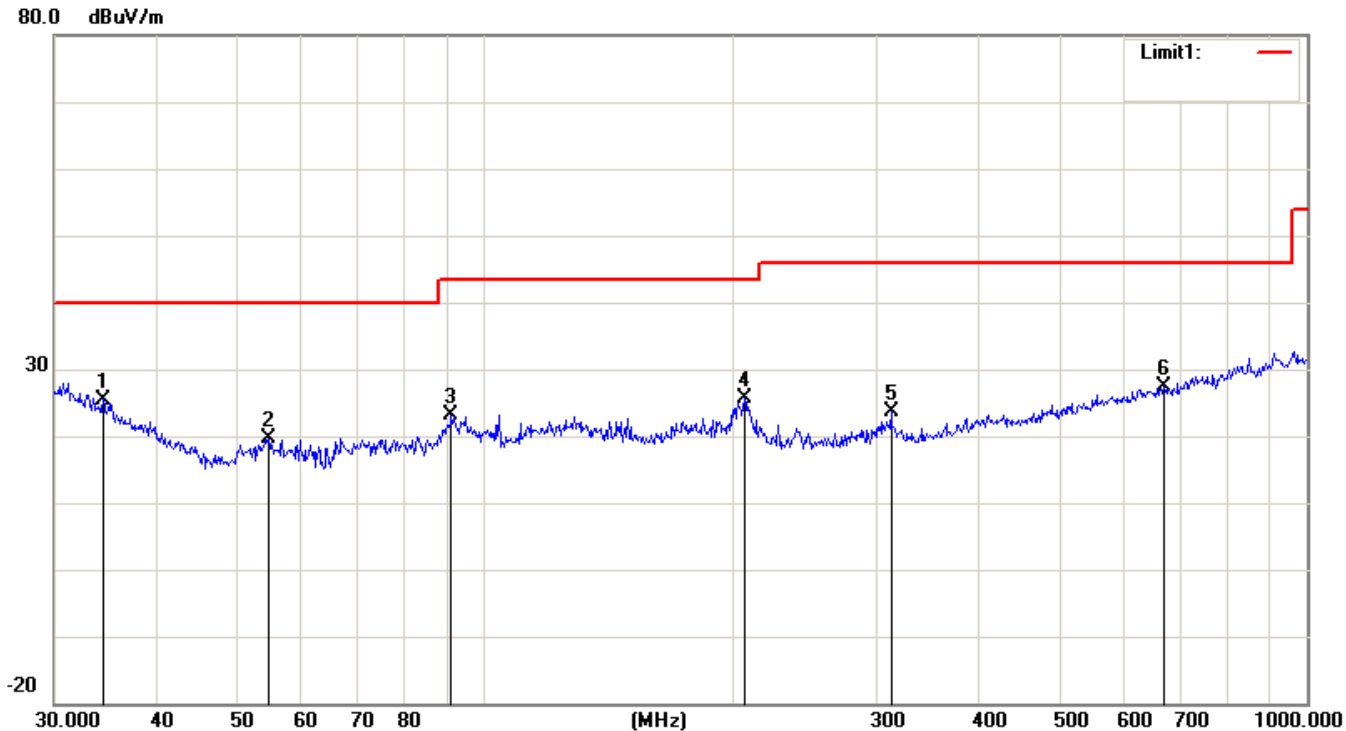
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	36.3814	24.05	-0.87	23.18	40.00	-16.82	QP
2		65.8031	28.46	-8.63	19.83	40.00	-20.17	QP
3		119.0180	24.25	-2.41	21.84	43.50	-21.66	QP
4		194.4534	27.32	-5.30	22.02	43.50	-21.48	QP
5		306.7537	26.84	-4.78	22.06	46.00	-23.94	QP
6		556.7744	25.28	0.37	25.65	46.00	-20.35	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 3	Test Date	March 15, 2017



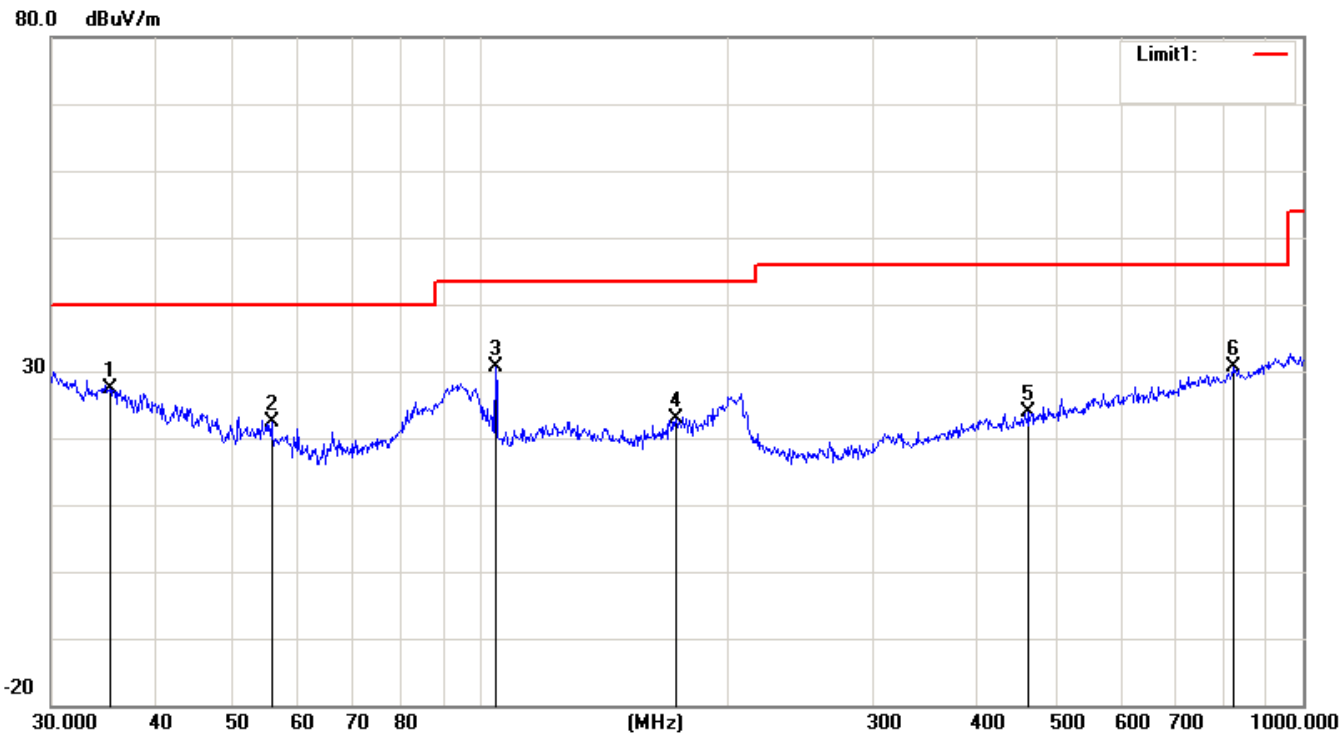
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		38.3462	27.94	-2.30	25.64	40.00	-14.36	QP
2		66.9669	32.85	-8.41	24.44	40.00	-15.56	QP
3	*	104.1701	35.45	-5.18	30.27	43.50	-13.23	QP
4		199.2855	32.74	-4.89	27.85	43.50	-15.65	QP
5		383.9318	25.62	-3.14	22.48	46.00	-23.52	QP
6		818.8341	25.49	5.03	30.52	46.00	-15.48	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 4	Test Date	March 15, 2017



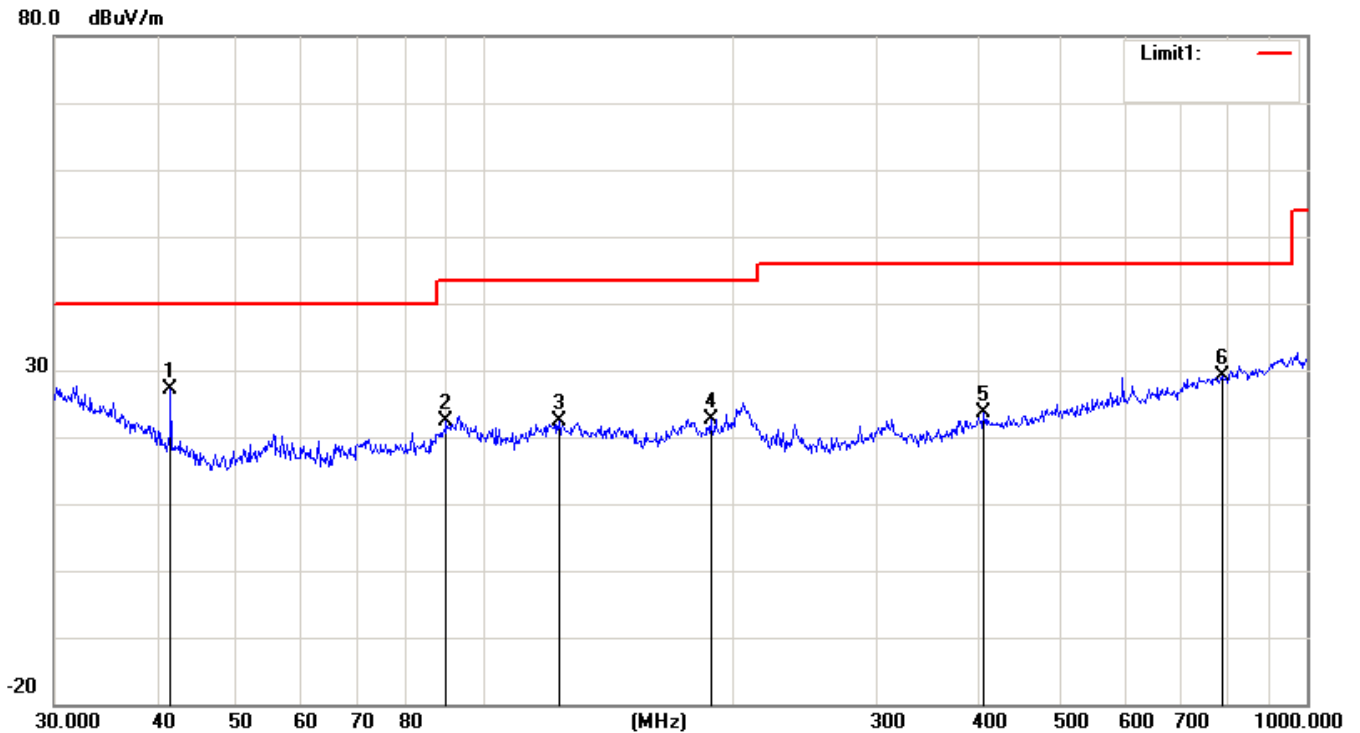
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	34.3964	24.96	0.54	25.50	40.00	-14.50	QP
2		54.6429	29.14	-9.47	19.67	40.00	-20.33	QP
3		91.1746	30.96	-7.83	23.13	43.50	-20.37	QP
4		207.1226	30.65	-5.08	25.57	43.50	-17.93	QP
5		312.1794	27.96	-4.36	23.60	46.00	-22.40	QP
6		670.4893	25.27	2.00	27.27	46.00	-18.73	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 4	Test Date	March 15, 2017



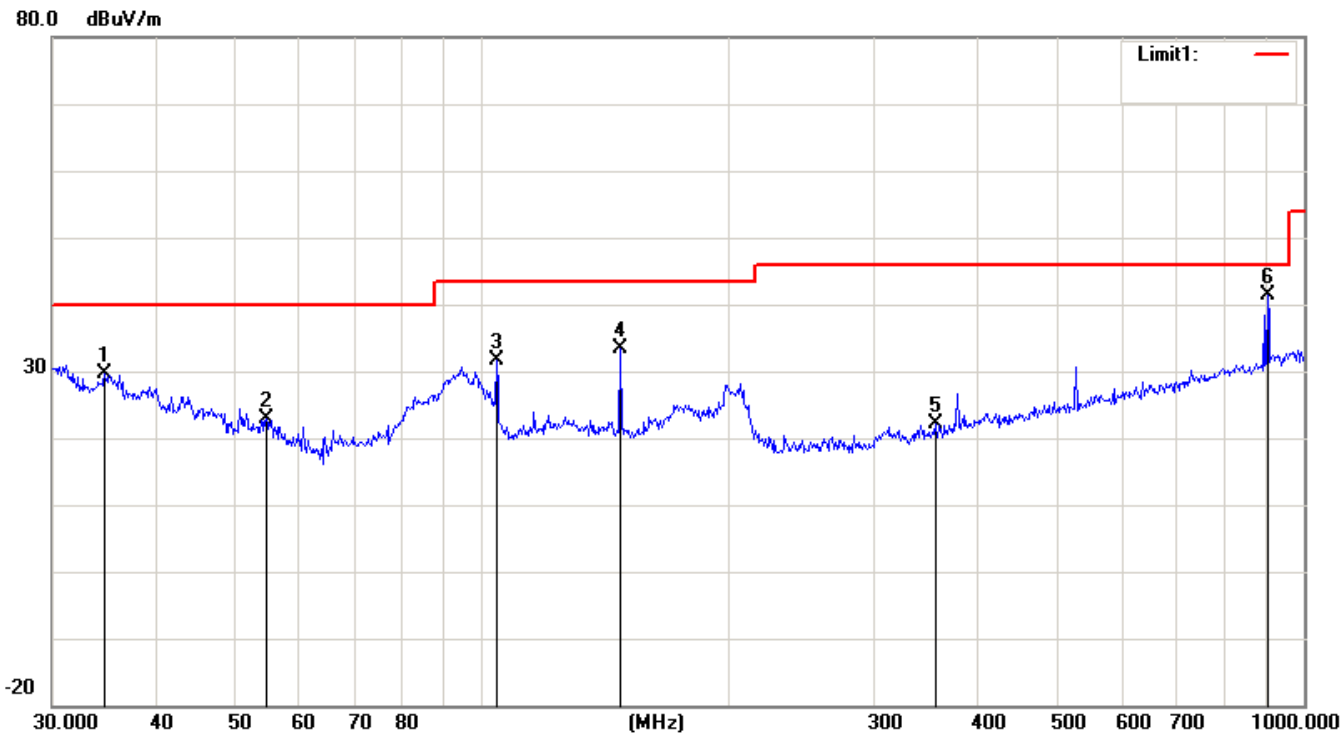
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.3750	27.41	-0.14	27.27	40.00	-12.73	QP
2		55.6094	31.83	-9.49	22.34	40.00	-17.66	QP
3		104.1701	35.74	-5.18	30.56	43.50	-12.94	QP
4		172.5988	27.69	-4.81	22.88	43.50	-20.62	QP
5		463.9696	25.37	-1.60	23.77	46.00	-22.23	QP
6		821.7103	25.59	5.11	30.70	46.00	-15.30	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 5	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	41.5670	31.60	-4.50	27.10	40.00	-12.90	QP
2		89.9047	30.44	-7.98	22.46	43.50	-21.04	QP
3		123.2655	24.50	-2.20	22.30	43.50	-21.20	QP
4		188.4125	27.84	-5.28	22.56	43.50	-20.94	QP
5		404.6665	25.74	-2.17	23.57	46.00	-22.43	QP
6		787.8513	25.04	4.00	29.04	46.00	-16.96	QP

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 5	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		34.7602	29.40	0.29	29.69	40.00	-10.31	QP
2		54.6429	32.42	-9.47	22.95	40.00	-17.05	QP
3		104.1701	36.74	-5.18	31.56	43.50	-11.94	QP
4		147.4036	36.91	-3.61	33.30	43.50	-10.20	QP
5		356.6758	26.03	-4.02	22.01	46.00	-23.99	QP
6	*	903.3094	35.45	5.91	41.36	46.00	-4.64	QP

5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1632.45	V	59.63	40.51	74	54	-14.37	-13.49
2829.27	V	58.31	40.15	74	54	-15.69	-13.85
1684.52	H	58.29	39.65	74	54	-15.71	-14.35
2831.6	H	59.88	40.88	74	54	-14.12	-13.12

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	59.09	39.31	74	54	-14.91	-14.69
2641.52	V	59.65	39.82	74	54	-14.35	-14.18
1628.42	H	59.56	39.99	74	54	-14.44	-14.01
2810.39	H	59.35	40.35	74	54	-14.65	-13.65

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	60.14	39.49	74	54	-13.86	-14.51
2652.38	V	58.10	39.99	74	54	-15.90	-14.01
1699.33	H	58.15	40.30	74	54	-15.85	-13.70
2739.42	H	59.51	40.51	74	54	-14.49	-13.49

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	58.54	41.92	74	54	-15.46	-12.08
2641.52	V	58.85	40.51	74	54	-15.15	-13.49
1628.42	H	58.48	40.04	74	54	-15.52	-13.96
2810.39	H	58.53	39.53	74	54	-15.47	-14.47

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	CX Air
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
		H/V	PK	AV	PK	AV	PK	AV
1577.35	V		59.88	41.81	74	54	-14.12	-12.19
2652.38	V		58.83	40.27	74	54	-15.17	-13.73
1699.33	H		59.96	39.46	74	54	-14.04	-14.54
2739.42	H		59.91	40.91	74	54	-14.09	-13.09

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

6. EUT TEST PHOTO

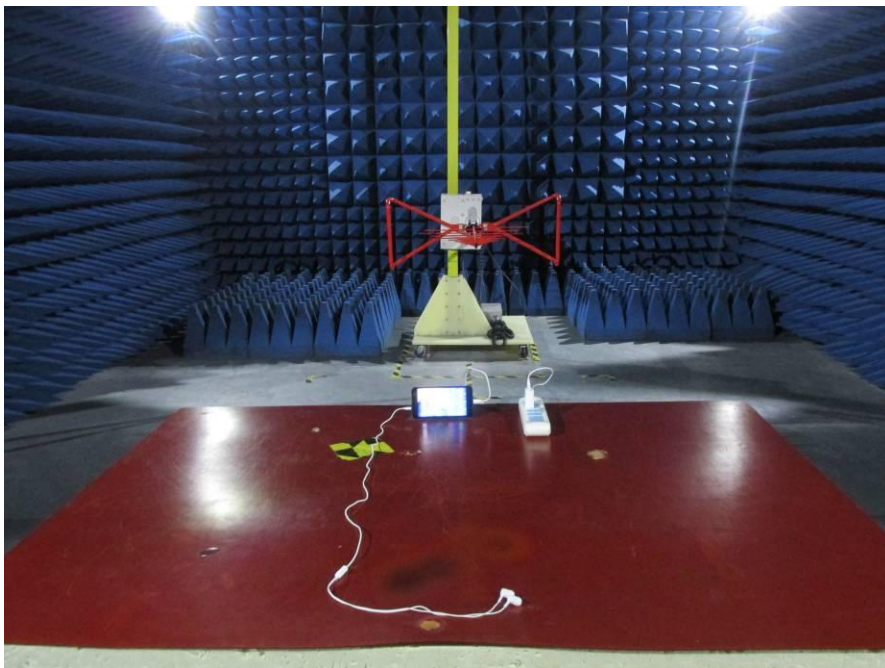
CONDUCTED EMISSION TEST



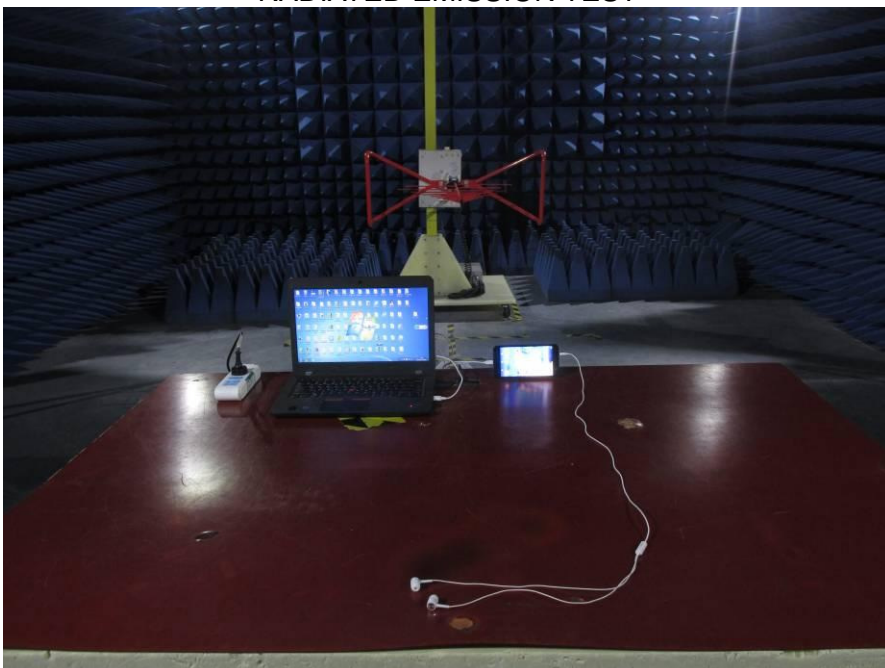
CONDUCTED EMISSION TEST



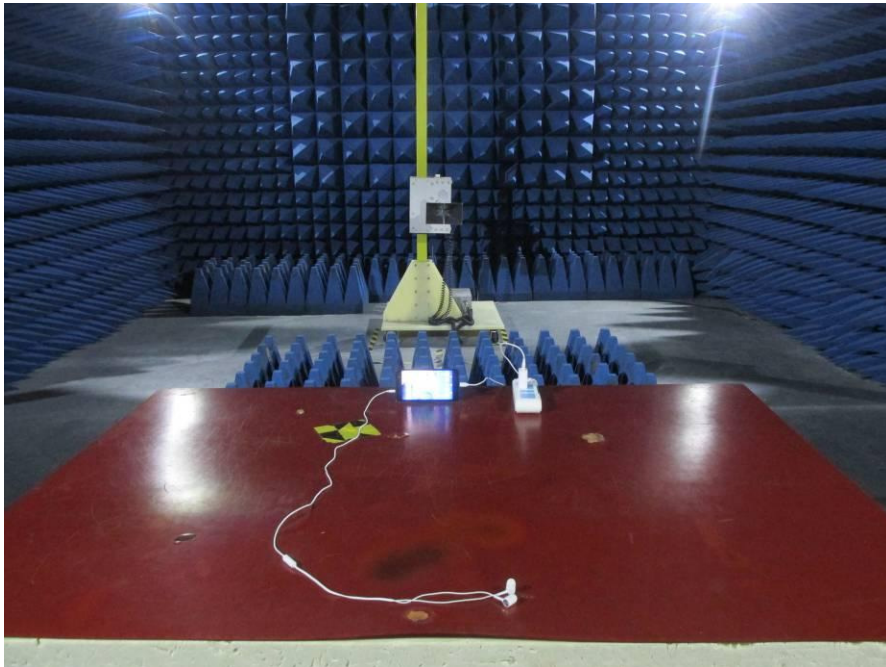
RADIATED EMISSION TEST



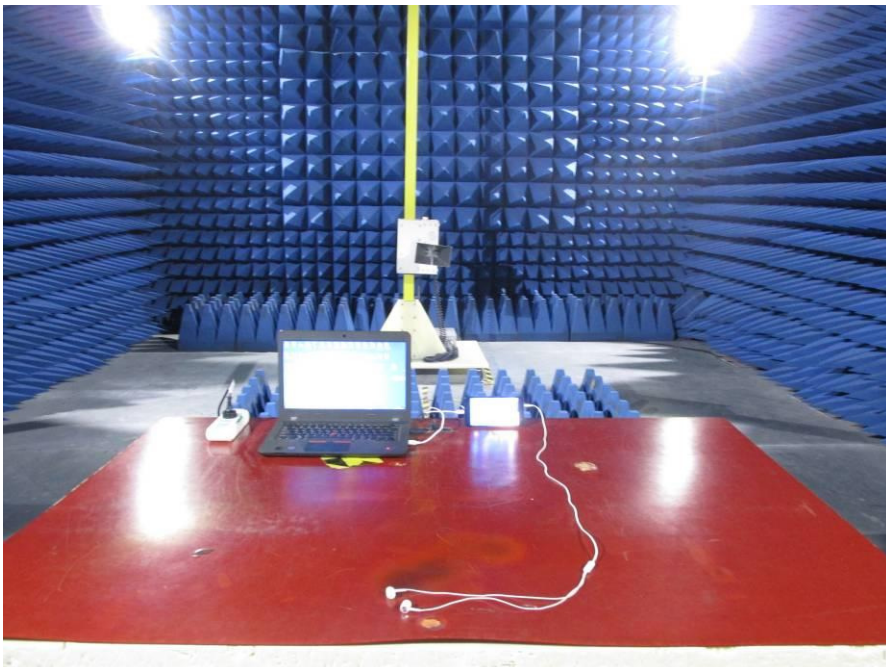
RADIATED EMISSION TEST



RADIATED EMISSION TEST



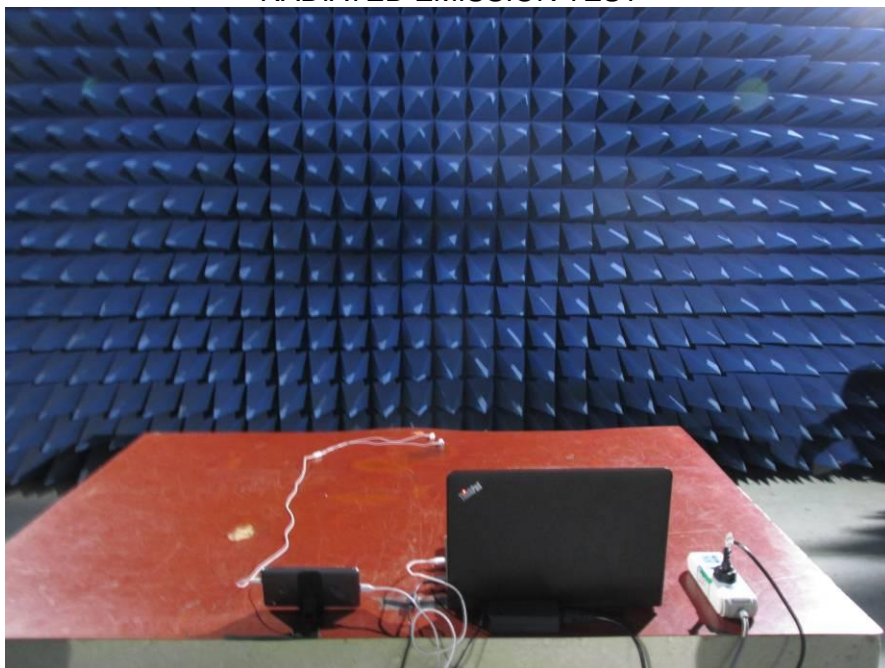
RADIATED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST



7. PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



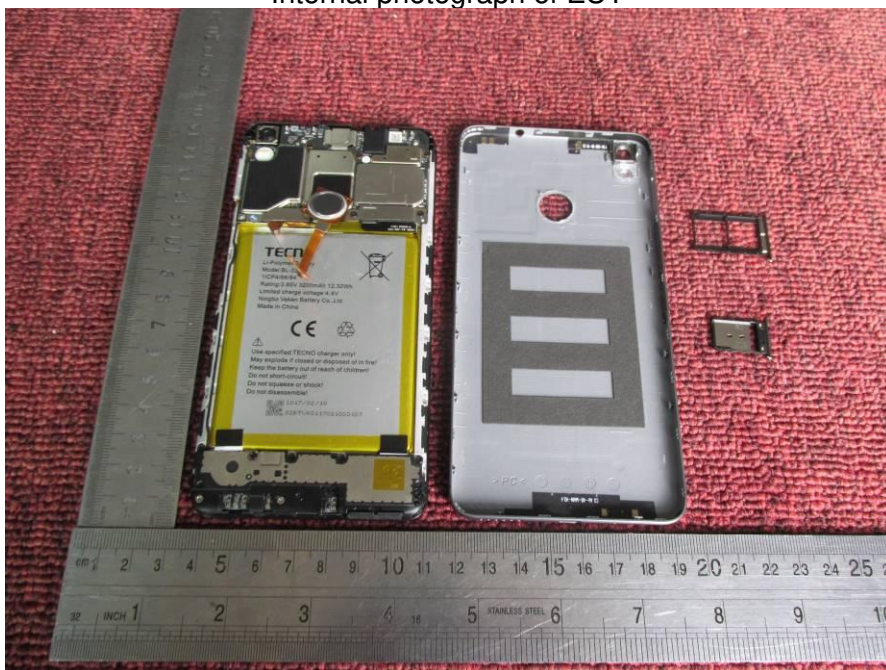
Appearance photograph of EUT



Appearance photograph of EUT



Internal photograph of EUT



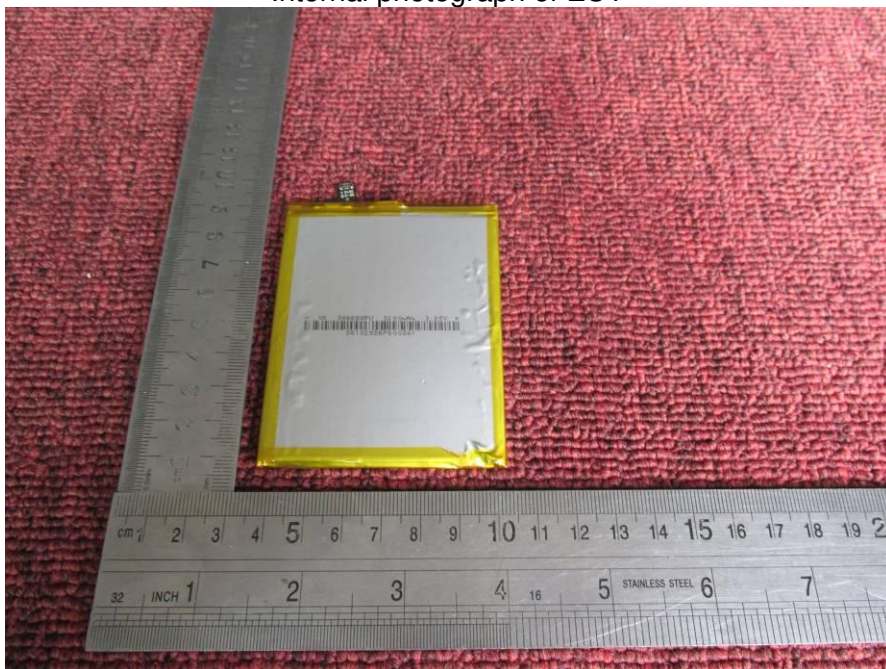
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



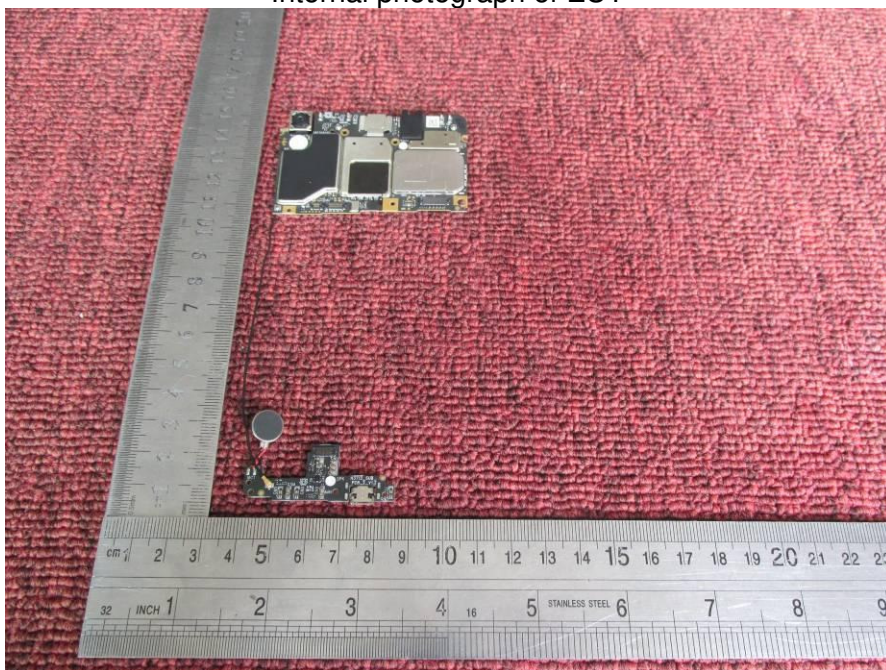
GSM/WCDMA/LTE Antenna

BT/WiFi Antenna

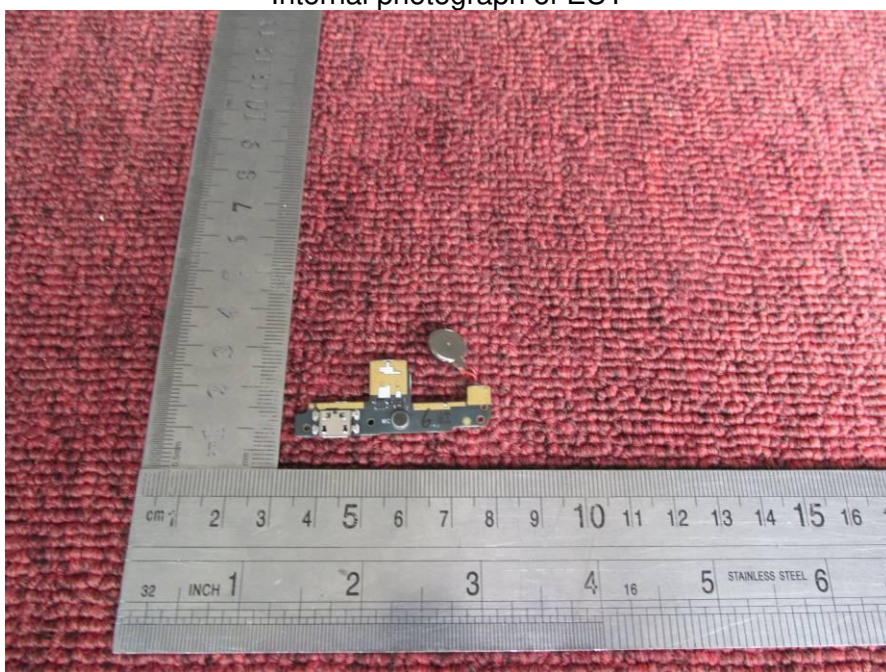
Internal photograph of EUT



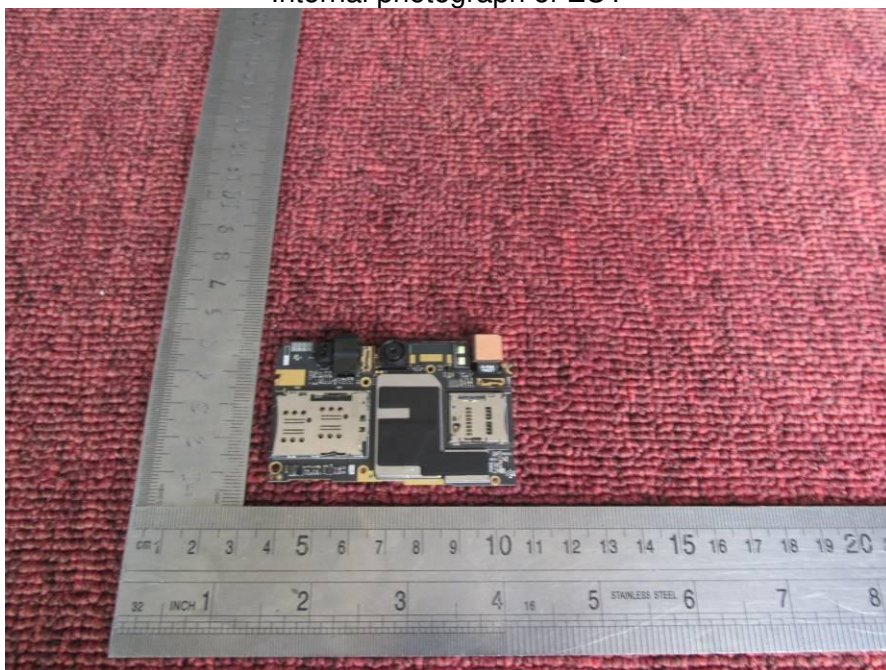
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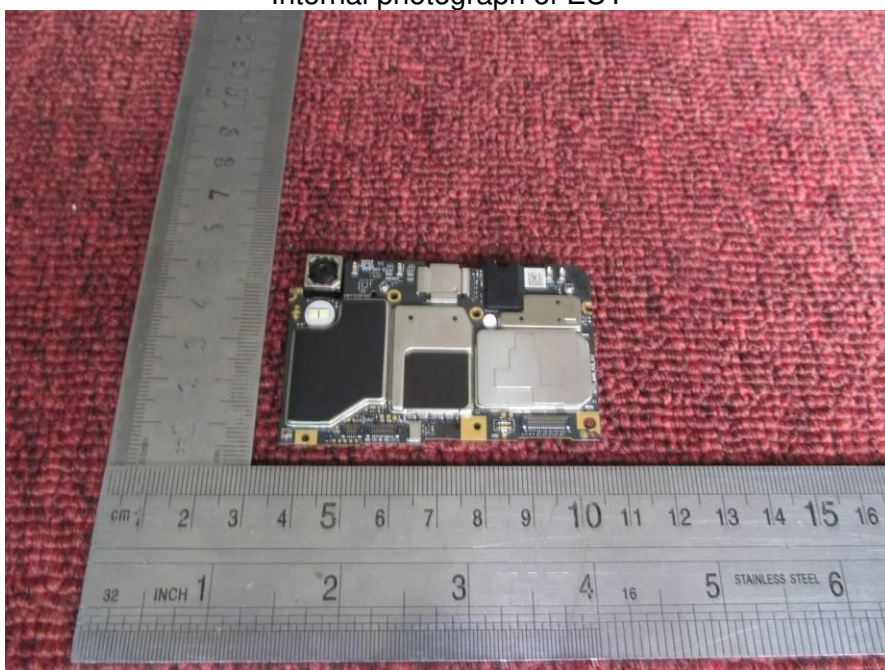
Internal photograph of EUT



Internal photograph of EUT



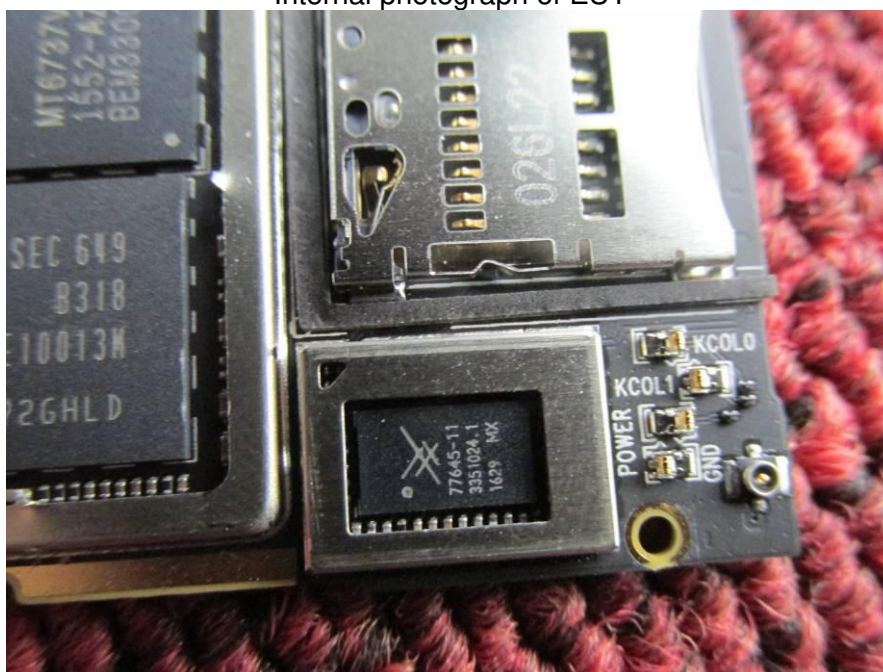
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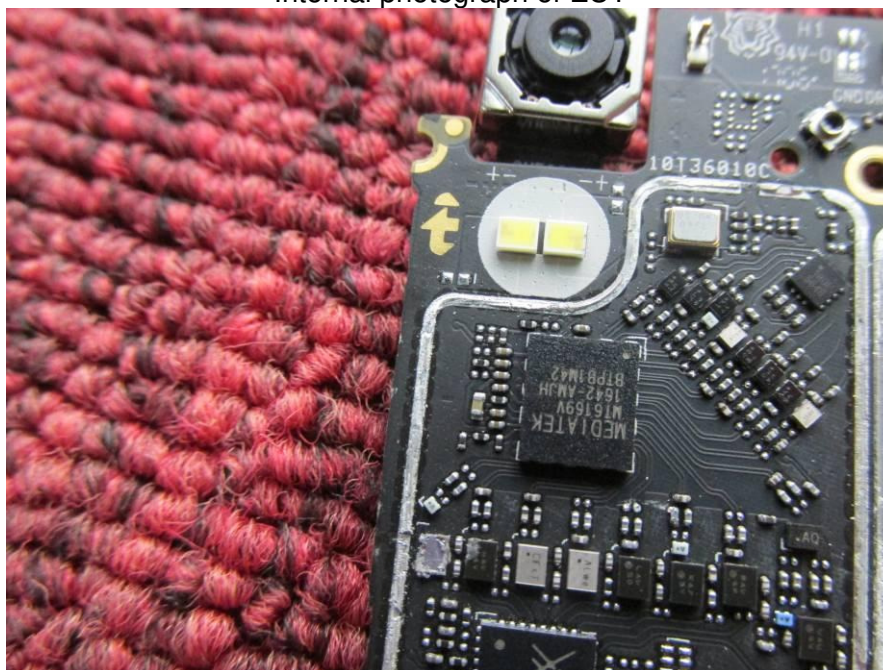
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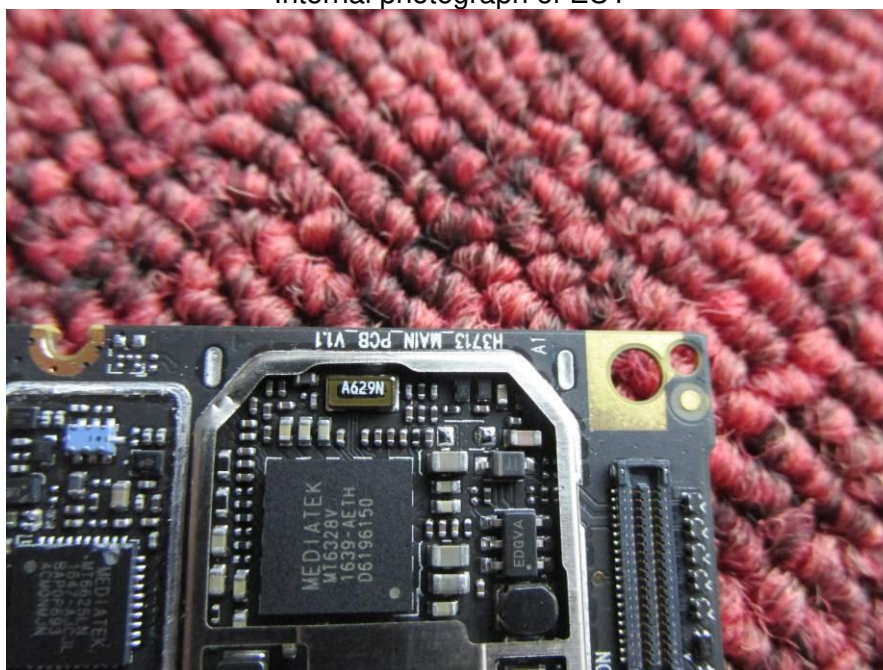
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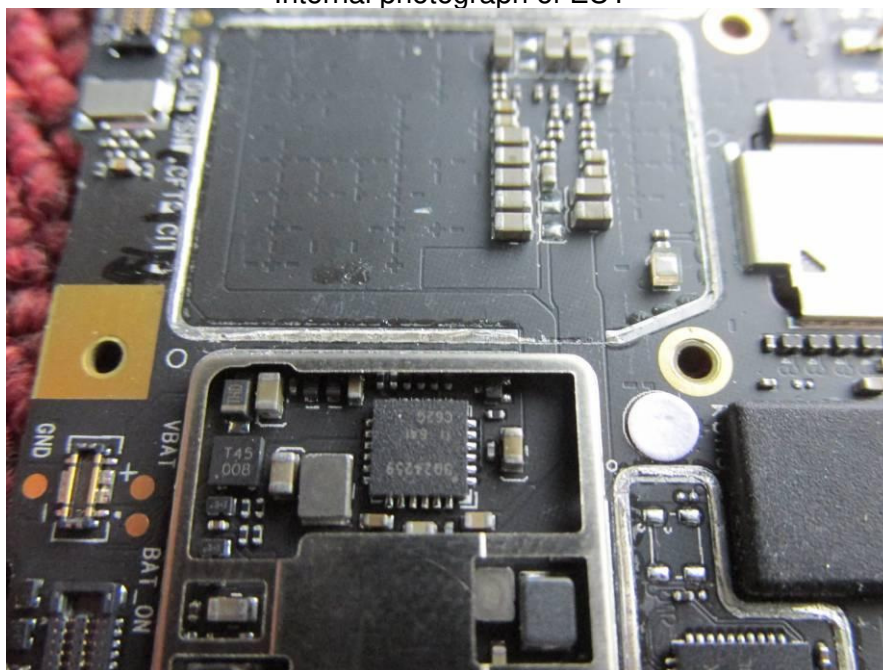
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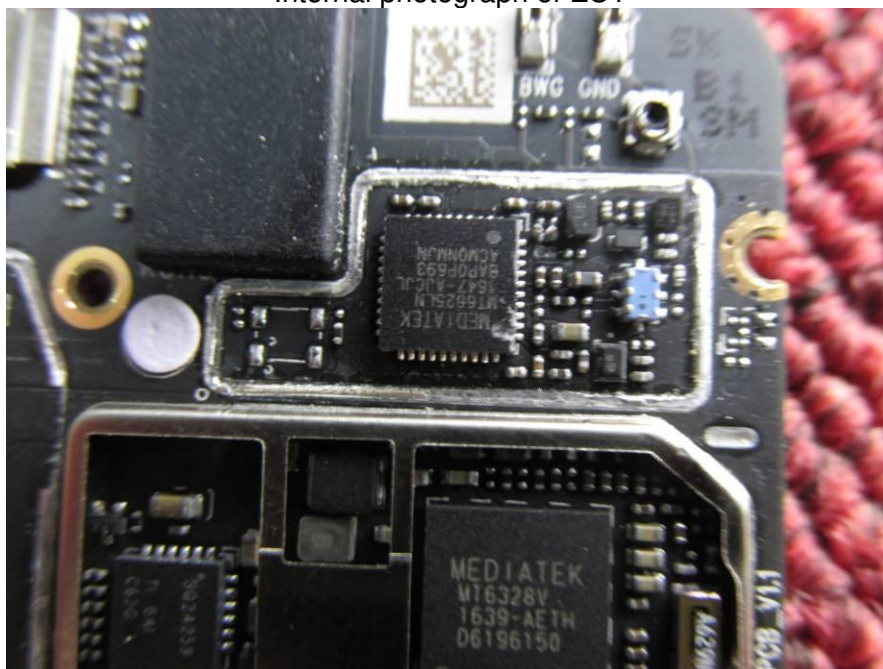
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



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