

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180700656303

Fax: +86 (0) 755 2671 0594 Page: 1 of 27

### TEST REPORT

**Application No.:** SZEM1807006563RG **Applicant:** TCL Communication Ltd.

Address of Applicant: 7/F, Block F4, TCL Communication Technology Building, TCL International

E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong,

P.R. China 518052

Manufacturer: TCL Communication Ltd.

Address of Manufacturer: 7/F, Block F4, TCL Communication Technology Building, TCL International

E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong,

P.R. China 518052

**Equipment Under Test (EUT):** 

**EUT Name:** UMTS/GSM Mobile Phone

Model No.: 3026G Trade mark: alcatel

FCC ID: 2ACCJB103

Standard(s): 47 CFR Part 15, Subpart B

**Date of Receipt:** 2018-08-08

**Date of Test:** 2018-08-15 to 2018-08-18

**Date of Issue:** 2018-08-22

Test Result: Pass\*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM180700656303

Page: 2 of 27

	Revision Record						
Version	Version Chapter Date Modifier Rei						
01		2018-08-22		Original			

Authorized for issue by:		
	Landew	
	Leo Lai /Project Engineer	_
	EvicFu	
	Eric Fu /Reviewer	_



Report No.: SZEM180700656303

Page: 3 of 27

### 2 Test Summary

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass		
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass		
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass		

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



Report No.: SZEM180700656303

Page: 4 of 27

### 3 Contents

			Page
1	COVE	R PAGE	1
2	TEST	SUMMARY	3
3	CONT	ENTS	4
4	GENE	RAL INFORMATION	5
	4.1 E	PETAILS OF E.U.T.	F
		DESCRIPTION OF SUPPORT UNITS	
		MEASUREMENT UNCERTAINTY	
		EST LOCATION	
		EST FACILITY	
	4.6 D	EVIATION FROM STANDARDS	6
	4.7 A	BNORMALITIES FROM STANDARD CONDITIONS	6
5	EQUIF	PMENT LIST	7
6	EMISS	SION TEST RESULTS	g
	6.1 C	CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHz-30MHz)	Ç
	6.1.1	E.U.T. Operation	10
	6.1.2	Test Setup Diagram	
	6.1.3	Measurement Data	
	6.2 F	RADIATED EMISSIONS (30MHz-1GHz)	19
		E.U.T. Operation	
	6.2.2	Test Setup Diagram	20
	6.2.3	Measurement Data	20
	6.3 F	RADIATED EMISSIONS (ABOVE 1GHz)	
	6.3.1	E.U.T. Operation	25
	6.3.2	Test Setup Diagram	
	6.3.3	Measurement Data	25-27



Report No.: SZEM180700656303

Page: 5 of 27

### 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	DC 3.7V Li-ion Battery or DC 5V from USB port	
Cable:	USB cable: 80cm unshielded	
	earphone cable: 150cm unshielded	

	PN	Technical data	
	CBA0066AGAC5	INPUT:100-240V~50/60Hz 150mA OUTPUT:5.0VDC, 550mA	
Charger	CBA0066AGAC7	INPUT:100-240V~50/60Hz 150mA OUTPUT:5.0VDC, 550mA	
	CBA3068AGAC5	INPUT:100-240V~50/60Hz 150mA OUTPUT:5.0VDC, 550mA	
Charger cradle	H7220-LF220AA1-DC0	/	
Headset	CCB0049A10C1	Earphone1	
пеааѕет	CCB0049A10C1	Earphone2	
Battery	CAB0950006CA	3.7V 970 mAH Battery1	
	CAB0950002C1	3.7V 970 mAH Battery2	

### 4.2 Description of Support Units

Description Manufacturer		Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

### 4.3 Measurement Uncertainty

No.	Item Measurement Uncertaint			
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
2	Dadieted Ferinsian	± 4.5dB (30MHz-1GHz)		
2	Radiated Emission	± 4.8dB (1GHz-6GHz)		
3	Temperature test	± 1 ℃		
4	Humidity test	± 3%		



Report No.: SZEM180700656303

Page: 6 of 27

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180700656303

Page: 7 of 27

### 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12

Radiated Emissions (above 1GHz)						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2018-04-13	2019-04-12	
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26	



Report No.: SZEM180700656303

Page: 8 of 27

General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07					



Report No.: SZEM180700656303

Page: 9 of 27

### 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz



Report No.: SZEM180700656303

Page: 10 of 27

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 67.8 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find

a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC

line)

the worst case: b: Telecom Idle+BT+camera (Front)+earphone2+battery+adapter2(USB cable)

c: Telecom Idle+BT+camera (Front)+earphone1+battery+adapter3+charging

cradle

d: Transfer data between the EUT and the PC e: GSM 850+BT+earphone+battery+adapter

f: GSM1900+BT+earphone+battery+adapter

g: WCDMA Band II+BT+earphone+battery+adapter

h: WCDMA Band VI+BT+earphone+battery+adapter

The worst case for final test:

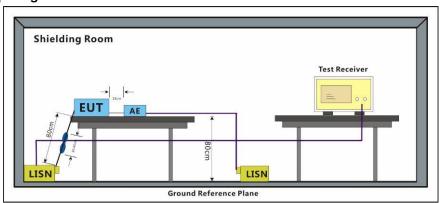
a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC line)

b: Telecom Idle+BT+camera (Front)+earphone2+battery+adapter2(USB cable) c: Telecom Idle+BT+camera (Front)+earphone1+battery+adapter3+charging

cradle

d: Transfer data between the EUT and the PC

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

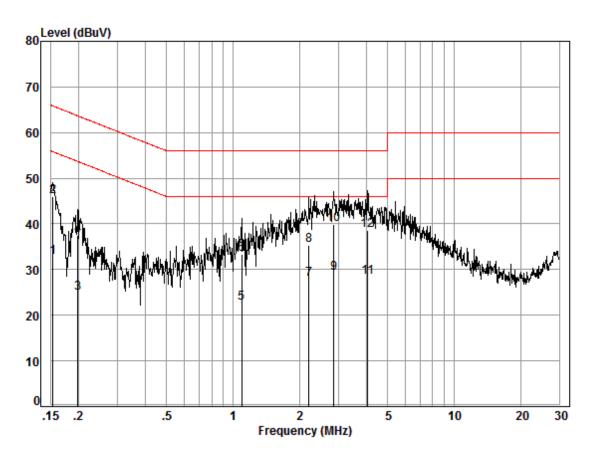
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Report No.: SZEM180700656303

Page: 11 of 27

Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06563CR

Test mode: a

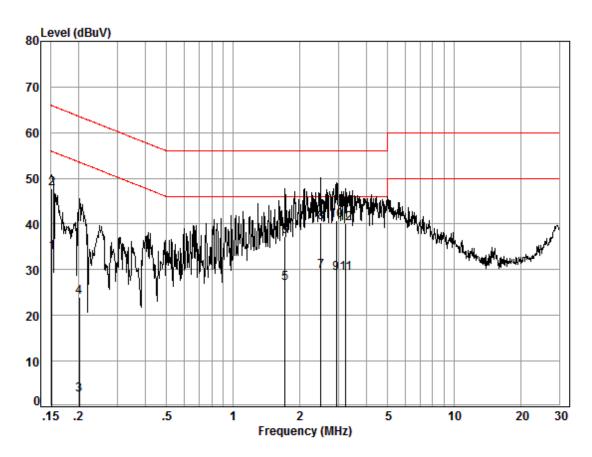
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.51	23.15	32.68			Average
2	0.15	0.02	9.51	36.39	45.92	65.82	-19.90	QP
3	0.20	0.03	9.50	15.36	24.89	53.67	-28.78	Average
4	0.20	0.03	9.50	28.06	37.59	63.67	-26.08	QP
5	1.09	0.11	9.50	13.12	22.73	46.00	-23.27	Average
6	1.09	0.11	9.50	23.66	33.27	56.00	-22.73	QP
7	2.20	0.16	9.51	18.25	27.92	46.00	-18.08	Average
8	2.20	0.16	9.51	25.56	35.23	56.00	-20.77	QP
9	2.85	0.18	9.54	19.59	29.31	46.00	-16.69	Average
10	2.85	0.18	9.54	30.25	39.97	56.00	-16.03	QP
11	4.07	0.19	9.54	18.71	28.44	46.00	-17.56	Average
12	4.07	0.19	9.54	28.79	38.52	56.00	-17.48	QP



Report No.: SZEM180700656303

Page: 12 of 27

Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06563CR

Test mode: a

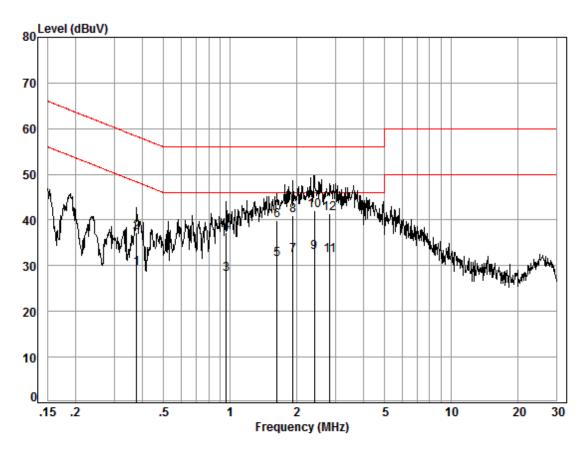
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.58	24.15	33.75	55.91	-22.16	Average
2	0.15	0.02	9.58	38.21	47.81	65.91	-18.10	QP
3	0.20	0.03	9.57	-6.99	2.61	53.54	-50.93	Average
4	0.20	0.03	9.57	14.45	24.05	63.54	-39.49	QP
5	1.72	0.14	9.64	17.26	27.04	46.00	-18.96	Average
6	1.72	0.14	9.64	27.43	37.21	56.00	-18.79	QP
7	2.50	0.17	9.64	19.85	29.66	46.00	-16.34	Average
8	2.50	0.17	9.64	30.48	40.29	56.00	-15.71	QP
9	2.93	0.18	9.65	19.48	29.31	46.00	-16.69	Average
10	2.93	0.18	9.65	30.89	40.72	56.00	-15.28	QP
11	3.24	0.18	9.66	19.44	29.28	46.00	-16.72	Average
12	3.24	0.18	9.66	30.27	40.11	56.00	-15.89	QP



Report No.: SZEM180700656303

Page: 13 of 27

Mode:b; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06563CR

Test mode: b

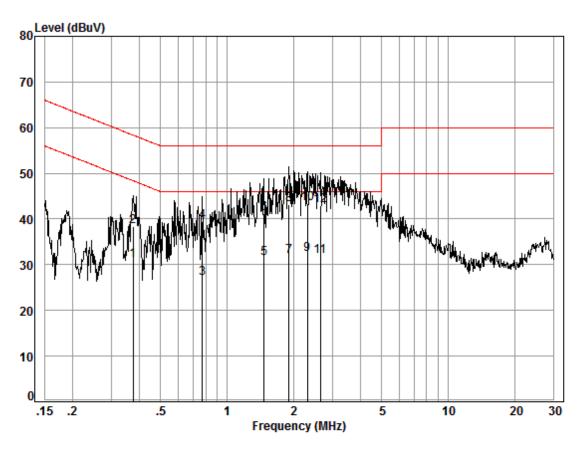
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.38	0.03	9.49	19.88	29.40	48.34	-18.94	Average
2	0.38	0.03	9.49	27.66	37.18	58.34	-21.16	QP
3	0.96	0.09	9.50	18.57	28.16	46.00	-17.84	Average
4	0.96	0.09	9.50	27.70	37.29	56.00	-18.71	QP
5	1.64	0.14	9.51	21.70	31.35	46.00	-14.65	Average
6	1.64	0.14	9.51	30.14	39.79	56.00	-16.21	QP
7	1.93	0.15	9.51	22.67	32.33	46.00	-13.67	Average
8	1.93	0.15	9.51	31.33	40.99	56.00	-15.01	QP
9	2.41	0.16	9.52	23.23	32.91	46.00	-13.09	Average
10	2.41	0.16	9.52	32.30	41.98	56.00	-14.02	QP
11	2.82	0.18	9.54	22.56	32.28	46.00	-13.72	Average
12	2.82	0.18	9.54	31.78	41.50	56.00	-14.50	QP



Report No.: SZEM180700656303

Page: 14 of 27

Mode:b; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06563CR

Test mode: b

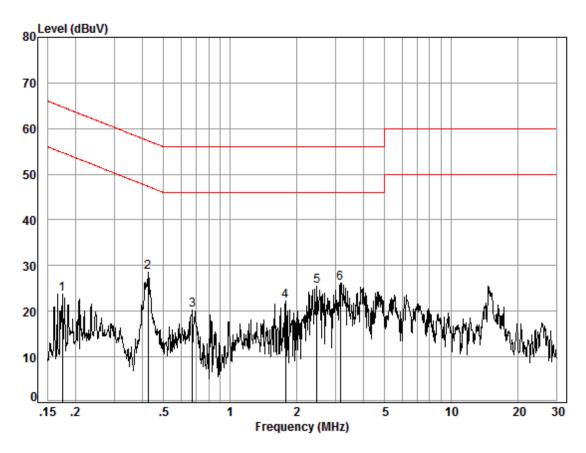
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.38	0.03	9.59	21.30	30.92	48.39	-17.47	Average
2	0.38	0.03	9.59	28.76	38.38	58.39	-20.01	QP
3	0.78	0.07	9.61	17.24	26.92	46.00	-19.08	Average
4	0.78	0.07	9.61	29.70	39.38	56.00	-16.62	QP
5	1.47	0.13	9.63	21.59	31.35	46.00	-14.65	Average
6	1.47	0.13	9.63	31.40	41.16	56.00	-14.84	QP
7	1.91	0.15	9.65	22.07	31.87	46.00	-14.13	Average
8	1.91	0.15	9.65	33.29	43.09	56.00	-12.91	QP
9	2.31	0.16	9.64	22.44	32.24	46.00	-13.76	Average
10	2.31	0.16	9.64	33.52	43.32	56.00	-12.68	QP
11	2.65	0.17	9.64	21.93	31.74	46.00	-14.26	Average
12	2.65	0.17	9.64	33.24	43.05	56.00	-12.95	QP



Report No.: SZEM180700656303

Page: 15 of 27

Mode:c; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06563CR

Test mode: c

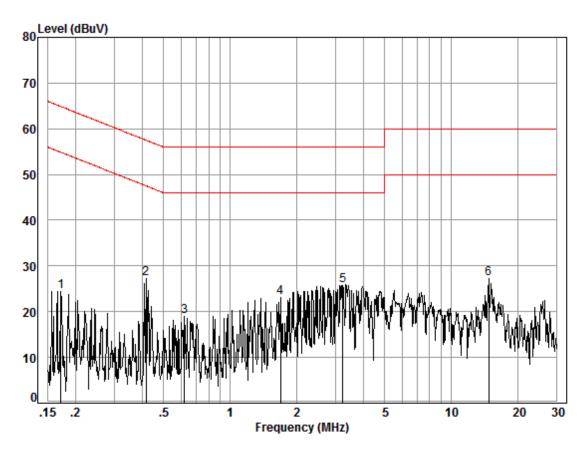
	Freq	Cable Loss	LISN Factor	Read Level		Limit Line		Remark	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB		
1	0.17	0.03	9.52	14.16	23.71	54.77	-31.06	Peak	
2	0.43	0.04	9.49	18.93	28.46	47.33	-18.87	Peak	
3	0.68	0.07	9.50	10.77	20.34	46.00	-25.66	Peak	
4	1.78	0.14	9.51	12.55	22.20	46.00	-23.80	Peak	
5	2.47	0.17	9.52	15.85	25.54	46.00	-20.46	Peak	
6	3.16	0.18	9.55	16.40	26.13	46.00	-19.87	Peak	



Report No.: SZEM180700656303

Page: 16 of 27

Mode:c; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06563CR

Test mode: c

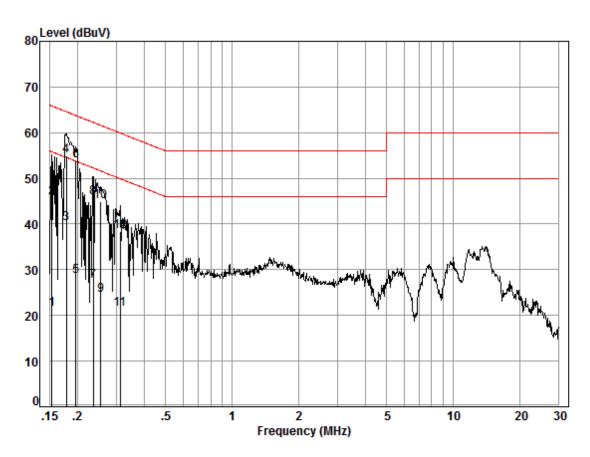
	Freq	Cable Loss	LISN Factor	Read Level		Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.59	14.91	24.52	54.86	-30.34	Peak
2	0.42	0.04	9.59	17.69	27.32	47.51	-20.19	Peak
3	0.62	0.06	9.62	9.28	18.96	46.00	-27.04	Peak
4	1.69	0.14	9.64	13.28	23.06	46.00	-22.94	Peak
5	3.24	0.18	9.66	15.97	25.81	46.00	-20.19	Peak
6	14.83	0.25	9.93	17.01	27.19	50.00	-22.81	Peak



Report No.: SZEM180700656303

Page: 17 of 27

Mode:d; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06563CR

Test mode: d

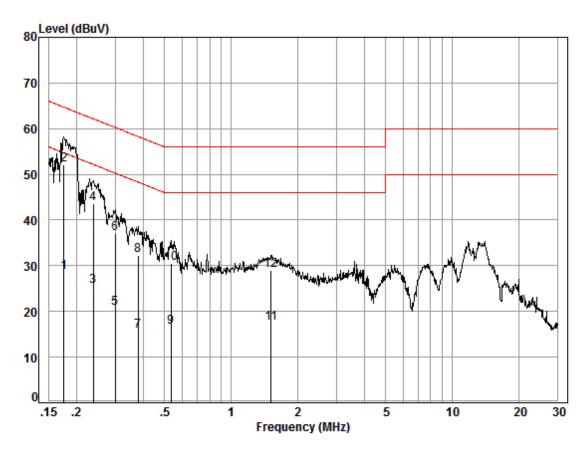
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.51	11.87	21.40	55.82	-34.42	Average
2	0.15	0.02	9.51	36.34	45.87	65.82	-19.95	QP
3	0.18	0.03	9.51	30.47	40.01	54.59	-14.58	Average
4	0.18	0.03	9.51	45.42	54.96	64.59	-9.63	QP
5	0.20	0.03	9.50	19.10	28.63	53.76	-25.13	Average
6	0.20	0.03	9.50	44.32	53.85	63.76	-9.91	QP
7	0.24	0.03	9.51	17.91	27.45	52.26	-24.81	Average
8	0.24	0.03	9.51	36.14	45.68	62.26	-16.58	QP
9	0.25	0.03	9.51	14.87	24.41	51.60	-27.19	Average
10	0.25	0.03	9.51	35.41	44.95	61.60	-16.65	QP
11	0.31	0.03	9.51	11.87	21.41	49.93	-28.52	Average
12	0.31	0.03	9.51	28.72	38.26	59.93	-21.67	QP



Report No.: SZEM180700656303

Page: 18 of 27

Mode:d; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06563CR

Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.03	9.59	18.98	28.60	54.72	-26.12	Average
2	0.17	0.03	9.59	42.46	52.08	64.72	-12.64	QP
3	0.24	0.03	9.58	15.80	25.41	52.17	-26.76	Average
4	0.24	0.03	9.58	34.09	43.70	62.17	-18.47	QP
5	0.30	0.03	9.58	11.14	20.75	50.28	-29.53	Average
6	0.30	0.03	9.58	27.51	37.12	60.28	-23.16	QP
7	0.38	0.03	9.59	6.10	15.72	48.30	-32.58	Average
8	0.38	0.03	9.59	22.60	32.22	58.30	-26.08	QP
9	0.53	0.05	9.61	6.97	16.63	46.00	-29.37	Average
10	0.53	0.05	9.61	20.92	30.58	56.00	-25.42	QP
11	1.52	0.13	9.63	7.64	17.40	46.00	-28.60	Average
12	1.52	0.13	9.63	19.20	28.96	56.00	-27.04	QP



Report No.: SZEM180700656303

Page: 19 of 27

### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: 30MHz to 1GHz

Measurement Distance: 10m

Limit:

30 MHz - 88 MHz  $29.5 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$  88 MHz - 216 MHz  $33.1 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$  216 MHz - 960 MHz  $35.6 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$   $43.5 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$ 

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz



Report No.: SZEM180700656303

Page: 20 of 27

#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find

a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC

line)

the worst case: b: Telecom Idle+BT+camera (Front)+earphone2+battery+adapter2(USB cable)

c: Telecom Idle+BT+camera (Front)+earphone1+battery+adapter3+charging

cradle

d: Transfer data between the EUT and the PC

e: GSM 850+BT+earphone+battery+adapter

f: GSM1900+BT+earphone+battery+adapter

g: WCDMA Band II+BT+earphone+battery+adapter

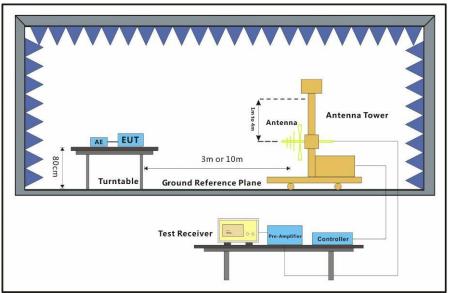
h: WCDMA Band VI+BT+earphone+battery+adapter

The worst case

a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC

for final test: line)

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

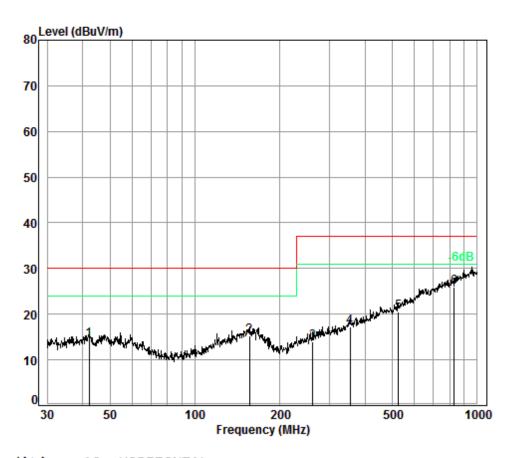
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Report No.: SZEM180700656303

Page: 21 of 27

Mode:a; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 06563RG

Test Mode: a

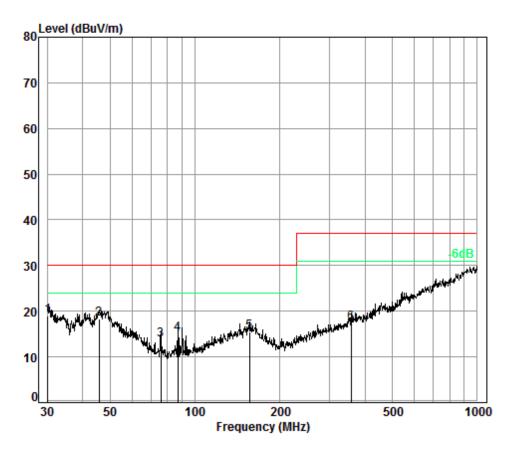
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB
1	42.30	6.80	13.12	32.54	26.96	14.34	30.00	-15.66
2	156.46	7.48	13.40	32.51	26.86	15.23	30.00	-14.77
3	261.98	7.91	11.55	32.47	27.04	14.03	37.00	-22.97
4	354.18	8.27	13.93	32.43	27.43	17.20	37.00	-19.80
5	526.40	8.72	17.30	32.42	26.88	20.48	37.00	-16.52
6 pp	827.49	9.30	21.43	32.14	27.31	25.90	37.00	-11.10



Report No.: SZEM180700656303

Page: 22 of 27

Mode:a; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 06563RG

Test Mode: a

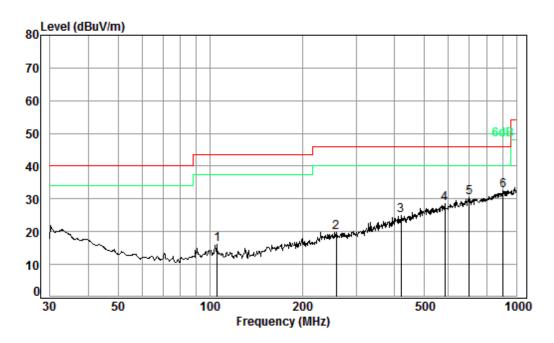
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.21	6.70	12.48	32.61	32.46	19.03	30.00	-10.97
2	45.86	6.82	12.88	32.53	31.13	18.30	30.00	-11.70
3	75.71	7.02	9.17	32.59	30.18	13.78	30.00	-16.22
4	87.11	7.17	8.65	32.62	31.79	14.99	30.00	-15.01
5	155.91	7.48	13.40	32.51	27.20	15.57	30.00	-14.43
6	357.93	8.29	14.02	32.43	27.63	17.51	37.00	-19.49



Report No.: SZEM180700656303

Page: 23 of 27

Mode:a; Polarization:Vertical



Condition: 3m HORIZONTAL

Job No. : 06563RG

Test mode: a

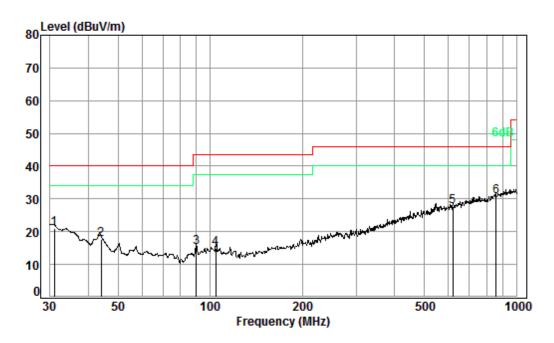
	Frea			Preamp Factor				Over Limit
	11 64	2033	i ac coi	ractor	Level	Level	LINE	LIMIL
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	405.07	4 22	42.75	27.22	20 54	46.40	43.50	27.24
1	105.27	1.22	13.75	27.32	28.54	16.19	43.50	-2/.31
2	258.33	1.71	19.08	26.74	25.78	19.83	46.00	-26.17
3	420.58	2.29	22.89	27.28	26.89	24.79	46.00	-21.21
4	582.74	2.68	26.28	27.89	27.39	28.46	46.00	-17.54
5	701.76	2.91	27.91	27.78	27.27	30.31	46.00	-15.69
6 pp	903.31	3.60	29.82	27.04	26.27	32.65	46.00	-13.35



Report No.: SZEM180700656303

Page: 24 of 27

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 06563RG

Test mode: a

	Freq			Preamp Factor				Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.45	26.02	21.12	40.00	-18.88
2	44.12	0.69	16.05	27.42	28.26	17.58	40.00	-22.42
3	90.22	1.10	13.12	27.36	28.50	15.36	43.50	-28.14
4	104.17	1.21	13.80	27.32	27.28	14.97	43.50	-28.53
5	620.71	2.75	26.89	27.91	25.87	27.60	46.00	-18.40
6 pp	857.02	3.44	29.26	27.30	25.31	30.71	46.00	-15.29



Report No.: SZEM180700656303

Page: 25 of 27

#### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.9 % RH Atmospheric Pressure: 1000 mbar

Pretest these a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC

modes to find line

ne)

the worst case: b: Telecom Idle+BT+camera (Front)+earphone2+battery+adapter2(USB cable)

c: Telecom Idle+BT+camera (Front)+earphone1+battery+adapter3+charging

cradle

d: Transfer data between the EUT and the PC e: GSM 850+BT+earphone+battery+adapter

f: GSM1900+BT+earphone+battery+adapter

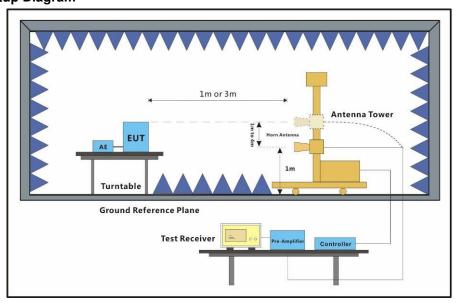
g: WCDMA Band II+BT+earphone+battery+adapter

h: WCDMA Band VI+BT+earphone+battery+adapter

The worst case a: Telecom Idle+BT+playing MP4 (SD card)+earphone1+battery+adapter1(DC

for final test: line)

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

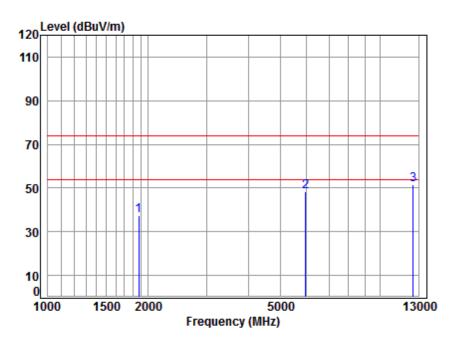
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



Report No.: SZEM180700656303

Page: 26 of 27

Mode:a; Polarization:Horizontal



Site : chamber

Condition: 3m Horizontal

Job No : 06563RG

Mode : a

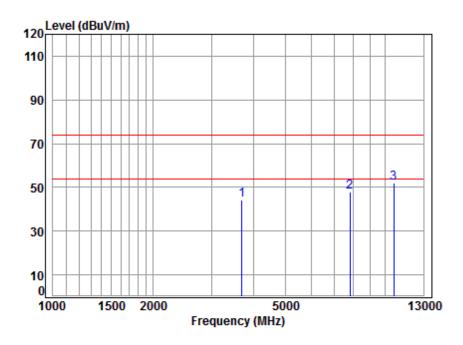
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		-
1	1874.632	5.03	27.35	41.63	46.73	37.48	74.00	-36.52	Peak	
2	5945.531	10.39	35.05	41.65	44.78	48.57	74.00	-25.43	Peak	
3	pp12541.460	12.72	37.94	38.50	39.30	51.46	74.00	-22.54	Peak	



Report No.: SZEM180700656303

Page: 27 of 27

Mode:a; Polarization:Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 06563RG

Mode : a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	3699.228 7803.126 pp10588.340	9.97	36.55	40.32	41.86	48.06	74.00	-25.94	Peak

- End of the Report -