FCC EMC Test Report

Report No.:	JYTSZ-R01-2500080
Applicant:	INFINIX MOBILITY LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Equipment Under Test (EUT)	
Product Name:	Mobile Phone
Model No.:	X6725B
Trade Mark:	Infinix
FCC ID:	2AIZN-X6725B
Applicable Standards:	FCC CFR Title 47 Part 15B
Date of Sample Receipt:	11 Mar., 2025
Date of Test:	12 Mar., to 11 Apr., 2025
Date of report Issued:	11 Apr., 2025
Test Result:	PASS

Project by:	Luo Ping ***Project Engineer***	***Date:***	*11 Apr., 2025*
Reviewed by:	Victor Chang ***Senior Engineer***	***Date:***	*11 Apr., 2025*
Approved by:	Janet Wei ***Manager***	***Date:***	*11 Apr., 2025*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	*11 Apr., 2025*	*Original*

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3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	X6725B
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.91V, 5850mAh
AC Adapter:	Adapter 1: Model: U180XSA Input: AC100-220V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or 7.5V, 2.4A 18.0W Max Adapter 2: Model: U180XSB Input: AC100-220V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or 7.5V, 2.4A 18.0W Max
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
PC mode	Keep the EUT in Downloading mode(Worst case with Radiated Emission)
Charging+Recording mode	Keep the EUT in Charging+Recording mode (Worst case with Conducted Emission)
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	0.8m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.4 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	±4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB

Note: *All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.*

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

3.10 Test Instruments List

Radiated Emission(3m SAC):

Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	01-02-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-15-2025	01-14-2026
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

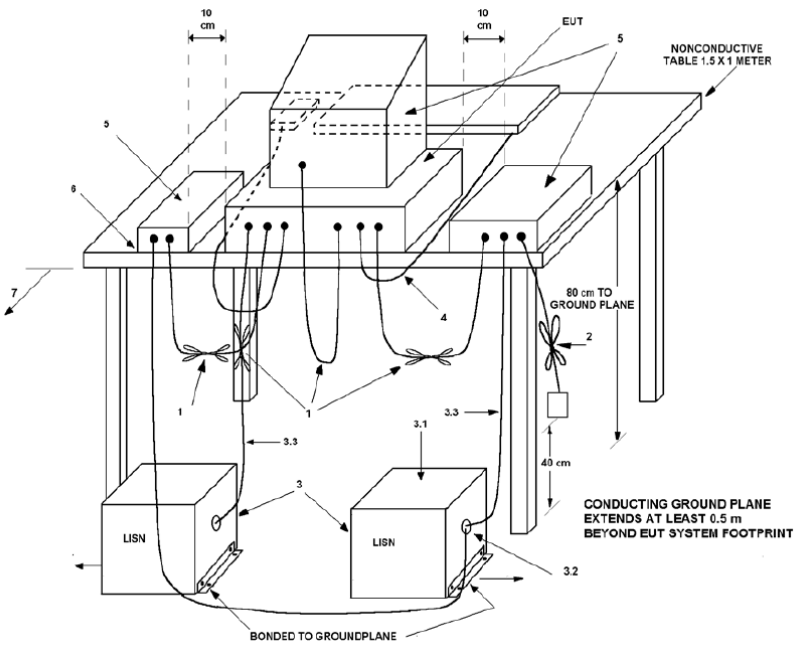
Conducted Emission:

Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	06-11-2024	06-10-2025
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-17-2024	12-16-2025
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-17-2024	12-16-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-15-2025	01-14-2026
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

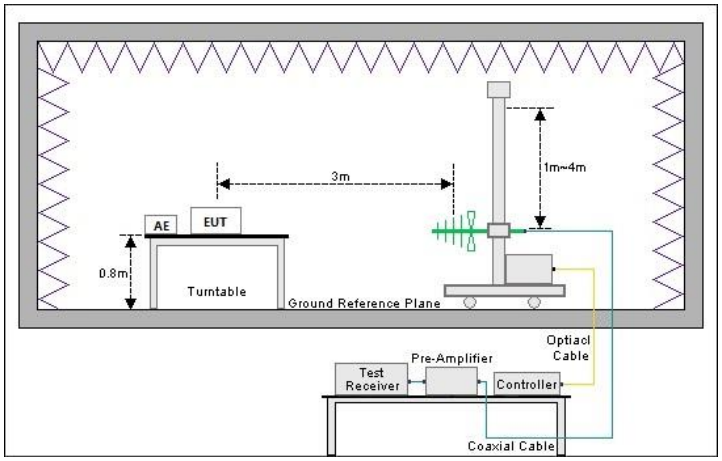
1) Conducted emission measurement:



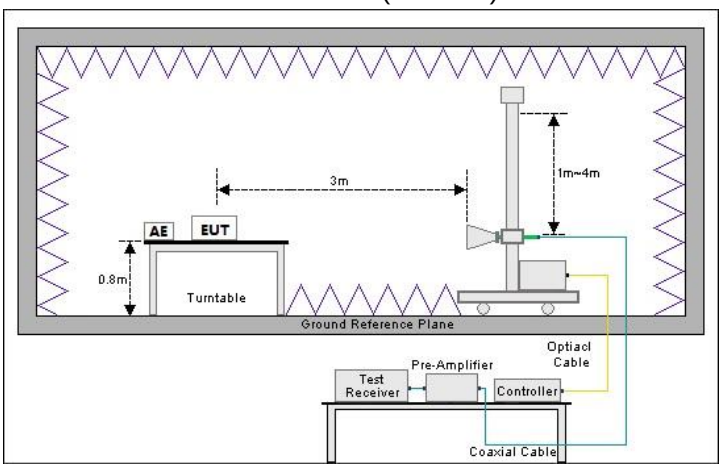
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	**For below 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. **For above 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass

Remark:

1. *The EUT is a **Class B** digital device.*
2. *Pass: The EUT complies with the essential requirements in the standard.*
3. *N/A: Not Applicable.*

Test Method:	*ANSI C63.4:2014*

5.1.2 Test Limit

Conducted Emission

Frequency (MHz)	Class A Limit (dBµV)		Class B Limit (dBµV)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50

Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency.
Note 2: The more stringent limit applies at transition frequencies.

Radiated Emission

Frequency (MHz)	Class A Limit (dBµV/m)		Class B Limit (dBµV/m)	
	Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m
30 – 88	49.0	39.0	40.0	30.0
88 – 216	53.5	43.5	43.5	33.5
216 – 960	56.0	46.0	46.0	36.0
960 – 1000	60.0	50.0	54.0	44.0

Note: The more stringent limit applies at transition frequencies.

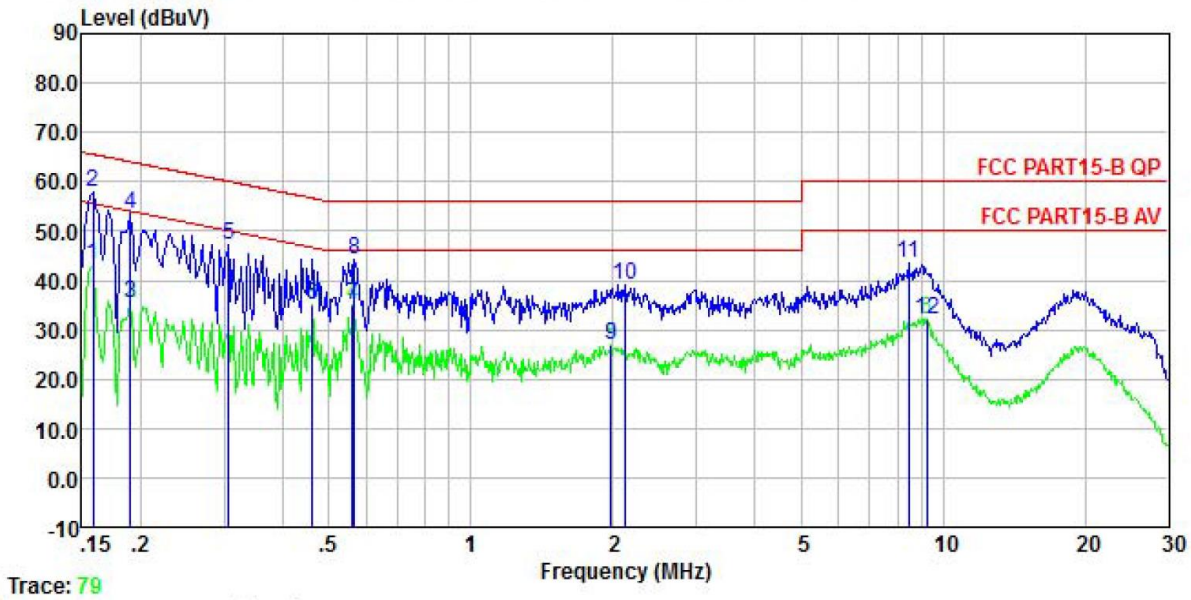
Frequency	Class A Limit (dBµV/m) @ 3m		Class B Limit (dBµV/m) @ 3m	
	Average	Peake	Average	Peake
Above 1 GHz	60.0	80.0	54.0	74.0

Note: The measurement bandwidth shall be 1 MHz or greater.

5.2 Conducted Emission

Adapter1:

Product name:	Mobile Phone	**Product model:**	X6725B
Test by:	Alan Chen	**Test mode:**	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Line
Test voltage:	AC 120 V/60 Hz		

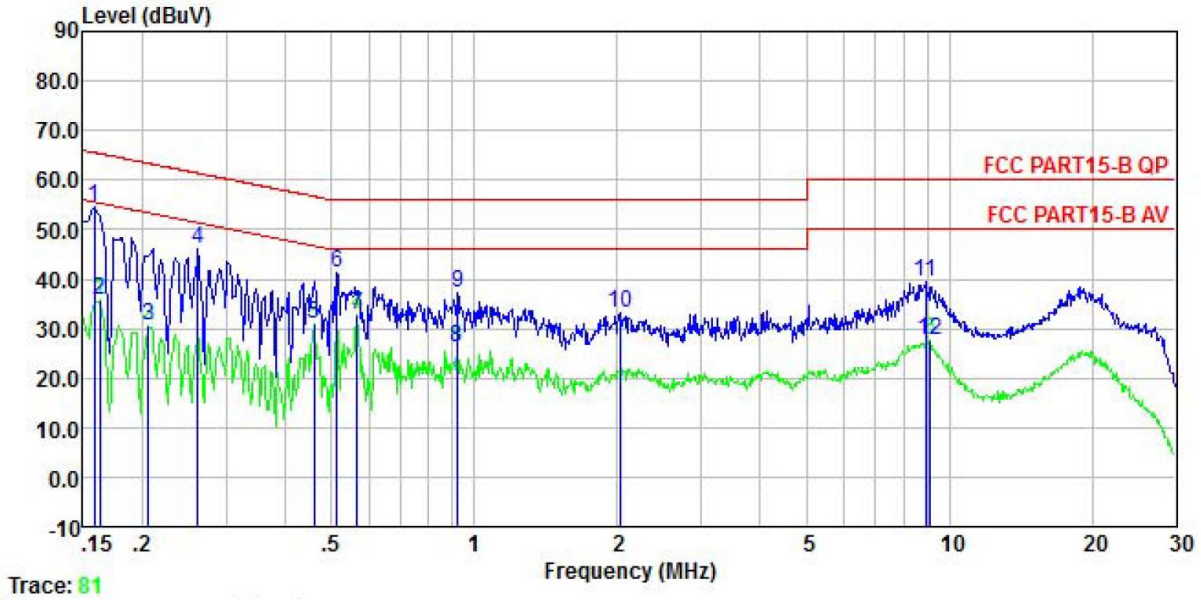


	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	22.98	10.18	0.00	9.88	0.01	43.05	55.56	-12.51	Average
2	0.158	37.93	10.18	0.00	9.88	0.01	58.00	65.56	-7.56	QP
3	0.190	15.44	10.12	0.00	9.88	0.03	35.47	54.02	-18.55	Average
4	0.190	33.43	10.12	0.00	9.88	0.03	53.46	64.02	-10.56	QP
5	0.307	27.10	10.10	0.00	9.88	0.03	47.11	60.06	-12.95	QP
6	0.461	15.15	10.13	0.00	9.88	0.03	35.19	46.67	-11.48	Average
7	0.561	14.82	10.18	0.00	9.88	0.02	34.90	46.00	-11.10	Average
8	0.567	24.23	10.19	0.00	9.88	0.02	44.32	56.00	-11.68	QP
9	1.980	6.54	10.10	0.00	9.88	0.21	26.73	46.00	-19.27	Average
10	2.121	18.96	10.13	0.00	9.88	0.19	39.16	56.00	-16.84	QP
11	8.456	23.17	10.35	0.00	9.91	0.10	43.53	60.00	-16.47	QP
12	9.253	11.81	10.32	0.00	9.91	0.11	32.15	50.00	-17.85	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	X6725B
Test by:	Alan Chen	Test mode:	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



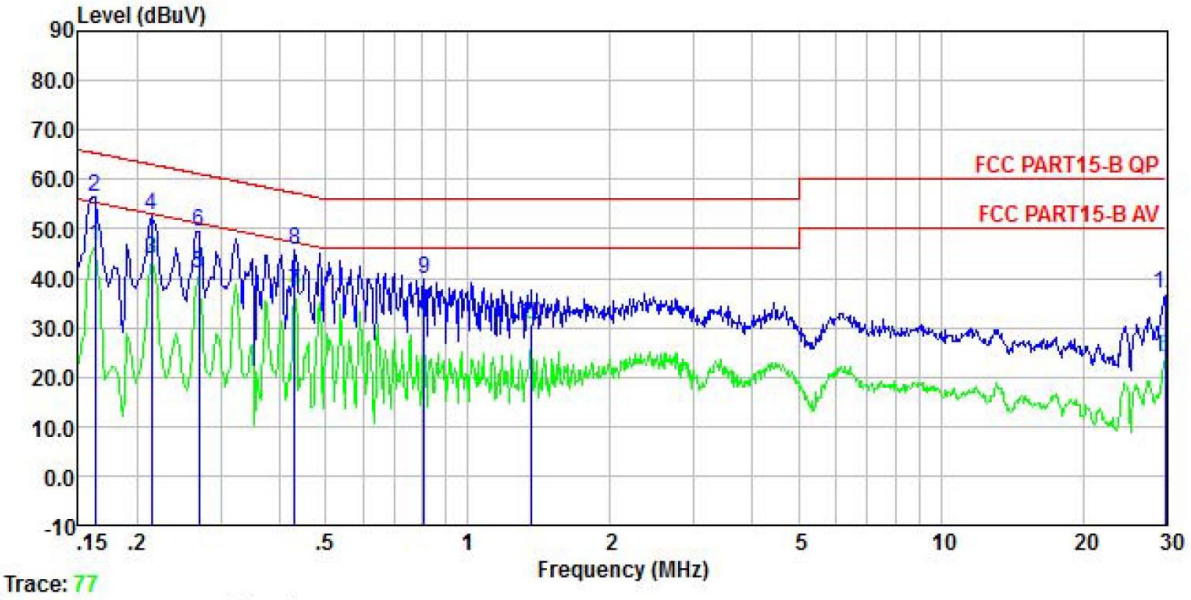
	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	34.48	10.20	0.00	9.88	0.01	54.57	65.56	-10.99	QP
2	0.162	15.52	10.20	0.00	9.88	0.01	35.61	55.34	-19.73	Average
3	0.206	10.46	10.20	0.00	9.88	0.04	30.58	53.36	-22.78	Average
4	0.262	26.07	10.16	0.00	9.88	0.01	46.12	61.38	-15.26	QP
5	0.459	10.72	10.17	0.00	9.88	0.03	30.80	46.71	-15.91	Average
6	0.513	21.09	10.22	0.00	9.88	0.03	41.22	56.00	-14.78	QP
7	0.567	12.70	10.27	0.00	9.88	0.02	32.87	46.00	-13.13	Average
8	0.918	5.97	10.24	0.00	9.88	0.04	26.13	46.00	-19.87	Average
9	0.923	17.24	10.24	0.00	9.88	0.04	37.40	56.00	-18.60	QP
10	2.023	12.93	10.30	0.00	9.88	0.20	33.31	56.00	-22.69	QP
11	8.916	19.28	10.30	0.00	9.91	0.11	39.60	60.00	-20.40	QP
12	9.107	7.18	10.30	0.00	9.91	0.11	27.50	50.00	-22.50	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Adapter2:

Product name:	Mobile Phone	**Product model:**	X6725B
Test by:	Alan Chen	**Test mode:**	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Line
Test voltage:	AC 120 V/60 Hz		

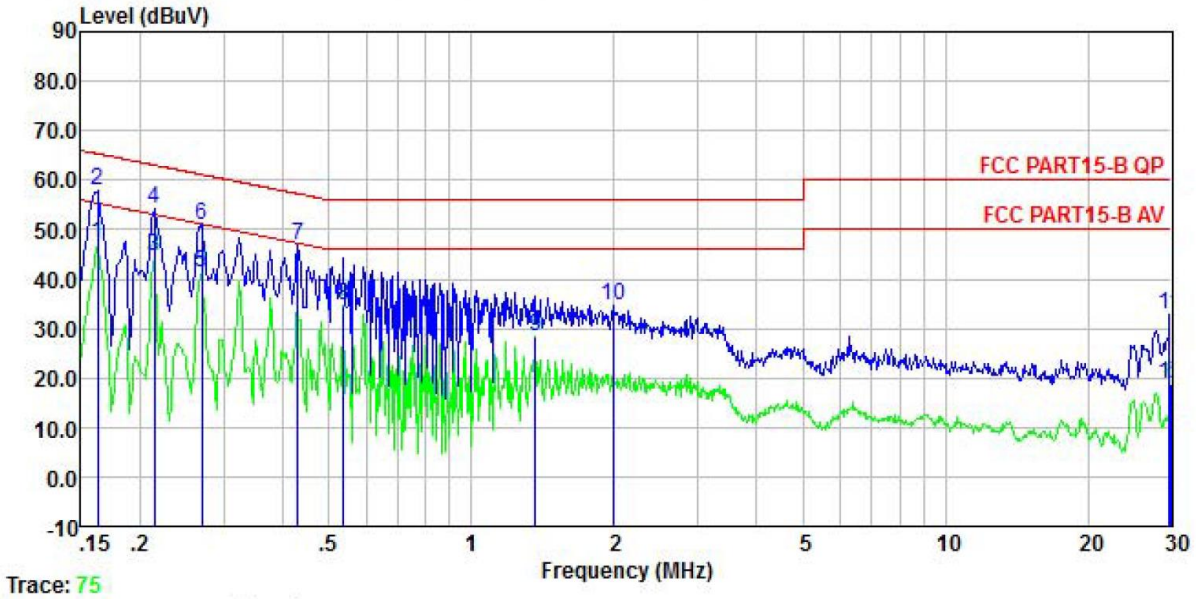


	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	26.22	10.17	0.00	9.88	0.01	46.28	55.34	-9.06	Average
2	0.162	36.51	10.17	0.00	9.88	0.01	56.57	65.34	-8.77	QP
3	0.214	23.94	10.10	0.00	9.88	0.03	43.95	53.05	-9.10	Average
4	0.214	32.75	10.10	0.00	9.88	0.03	52.76	63.05	-10.29	QP
5	0.270	20.97	10.10	0.00	9.88	0.02	40.97	51.12	-10.15	Average
6	0.270	29.48	10.10	0.00	9.88	0.02	49.48	61.12	-11.64	QP
7	0.431	17.31	10.12	0.00	9.88	0.03	37.34	47.24	-9.90	Average
8	0.431	25.79	10.12	0.00	9.88	0.03	45.82	57.24	-11.42	QP
9	0.809	19.97	10.11	0.00	9.88	0.03	39.99	56.00	-16.01	QP
10	1.367	10.48	10.16	0.00	9.88	0.12	30.64	46.00	-15.36	Average
11	29.841	3.27	10.30	0.00	10.04	0.22	23.83	50.00	-26.17	Average
12	30.000	16.15	10.30	0.00	10.04	0.22	36.71	60.00	-23.29	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	**Product model:**	X6725B
Test by:	Alan Chen	**Test mode:**	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	27.01	10.20	0.00	9.88	0.01	47.10	55.34	-8.24	Average
2	0.162	37.92	10.20	0.00	9.88	0.01	58.01	65.34	-7.33	QP
3	0.214	24.38	10.19	0.00	9.88	0.03	44.48	53.05	-8.57	Average
4	0.214	34.16	10.19	0.00	9.88	0.03	54.26	63.05	-8.79	QP
5	0.270	21.17	10.16	0.00	9.88	0.02	41.23	51.12	-9.89	Average
6	0.270	30.83	10.16	0.00	9.88	0.02	50.89	61.12	-10.23	QP
7	0.431	26.95	10.14	0.00	9.88	0.03	47.00	57.24	-10.24	QP
8	0.538	14.36	10.24	0.00	9.88	0.03	34.51	46.00	-11.49	Average
9	1.367	8.13	10.24	0.00	9.88	0.12	28.37	46.00	-17.63	Average
10	1.991	14.30	10.30	0.00	9.88	0.21	34.69	56.00	-21.31	QP
11	29.684	12.10	10.50	0.00	10.04	0.22	32.86	60.00	-27.14	QP
12	30.000	-1.89	10.50	0.00	10.04	0.22	18.87	50.00	-31.13	Average

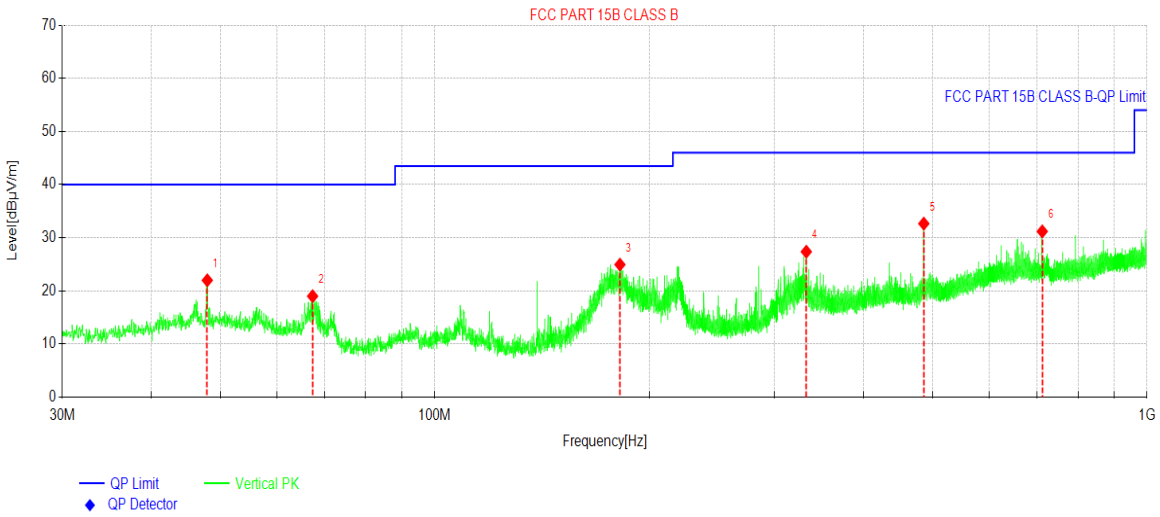
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	Mobile Phone	**Product Model:**	X6725B
Test By:	Kiran Zeng	**Test mode:**	PC mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical
Test Voltage:	AC 120V/60Hz		

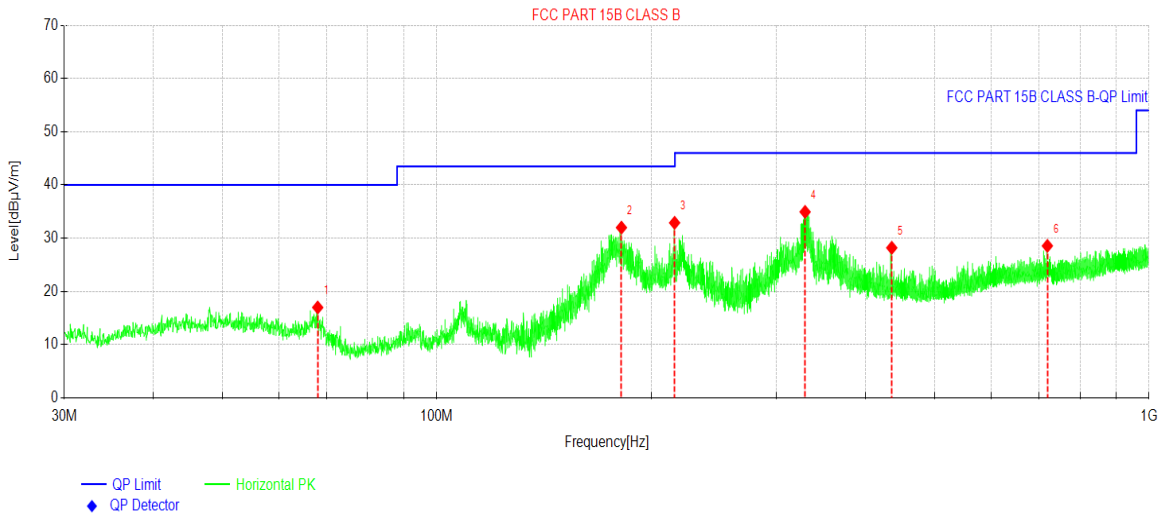


Suspected Data List								
NO.	Freq. [MHz]	Reading[dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	47.9459	34.40	-12.42	21.98	40.00	18.02	PK	Vertical
2	67.3954	34.48	-15.49	18.99	40.00	21.01	PK	Vertical
3	182.0066	41.47	-16.53	24.94	43.50	18.56	PK	Vertical
4	332.4611	39.12	-11.75	27.37	46.00	18.63	PK	Vertical
5	486.0198	41.62	-8.97	32.65	46.00	13.35	PK	Vertical
6	712.8171	36.10	-4.91	31.19	46.00	14.81	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	**Product Model:**	X6725B
Test By:	Kiran Zeng	**Test mode:**	PC mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Horizontal
Test Voltage:	AC 120V/60Hz		



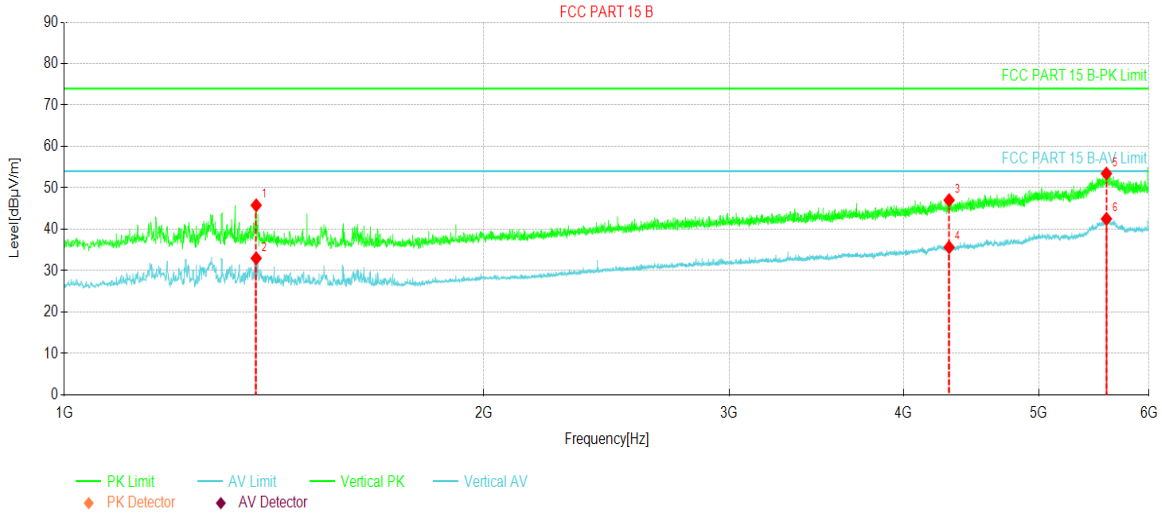
Suspected Data List								
NO.	Freq. [MHz]	Reading[dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	68.0744	32.75	-15.77	16.98	40.00	23.02	PK	Horizontal
2	181.7156	48.52	-16.53	31.99	43.50	11.51	PK	Horizontal
3	215.7643	47.97	-15.08	32.89	43.50	10.61	PK	Horizontal
4	329.0175	46.80	-11.86	34.94	46.00	11.06	PK	Horizontal
5	435.4318	37.95	-9.76	28.19	46.00	17.81	PK	Horizontal
6	719.9955	33.27	-4.72	28.55	46.00	17.45	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	Mobile Phone	**Product Model:**	X6725B
Test By:	Kiran Zeng	**Test mode:**	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Vertical
Test Voltage:	AC 120V/60Hz		

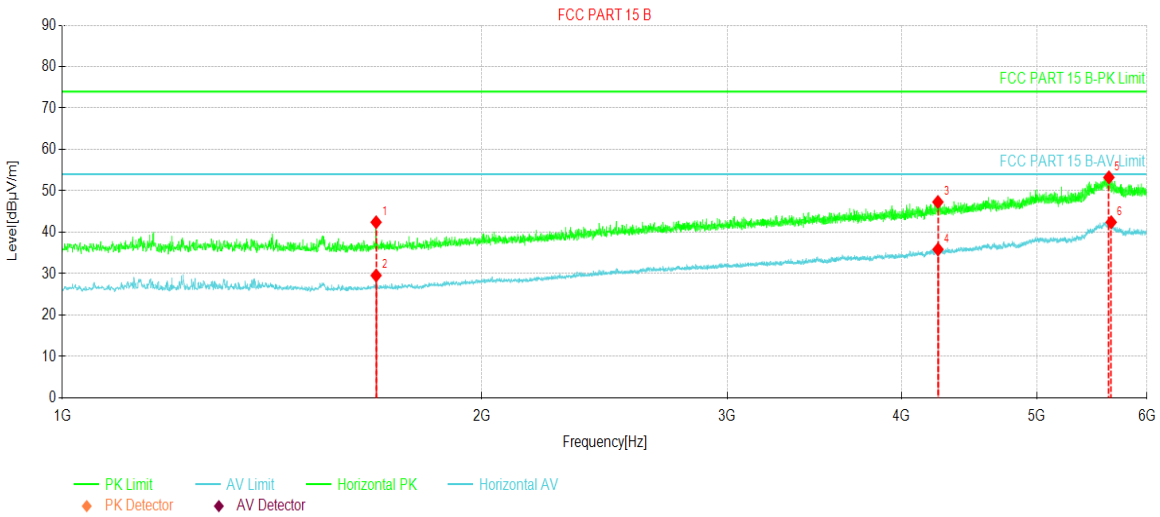


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1373.1716	67.93	45.79	-22.14	74.00	28.21	PK	Vertical
2	1373.1716	55.13	32.99	-22.14	54.00	21.01	AV	Vertical
3	4312.9141	59.29	47.03	-12.26	74.00	26.97	PK	Vertical
4	4312.9141	47.91	35.65	-12.26	54.00	18.35	AV	Vertical
5	5592.4491	58.15	53.45	-4.70	74.00	20.55	PK	Vertical
6	5593.0741	47.20	42.51	-4.69	54.00	11.49	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	**Product Model:**	X6725B
Test By:	Kiran Zeng	**Test mode:**	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1679.4599	64.65	42.43	-22.22	74.00	31.57	PK	Horizontal
2	1679.4599	51.79	29.57	-22.22	54.00	24.43	AV	Horizontal
3	4247.9060	59.79	47.31	-12.48	74.00	26.69	PK	Horizontal
4	4248.5311	48.34	35.86	-12.48	54.00	18.14	AV	Horizontal
5	5634.3293	58.15	53.25	-4.90	74.00	20.75	PK	Horizontal
6	5655.5819	47.53	42.43	-5.10	54.00	11.57	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

------End of report------