

FCC PART 15 B TEST REPORT

For

POSH Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2AG8KA110

Report Type: Original Report	Product Type: Lynx Plus
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Report Number: RDG151230001-00B	
Report Date: 2016-01-07	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *POSH Mobile Limited*'s product, model number: *A110* (FCC ID: 2AG8KA110) (the "EUT") in this report was a *Lynx Plus*, which was measured approximately: 9.3 cm (L) x 4.3 cm (W) x 1.6cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5.0V charging from adapter. The highest operating frequency is 2480MHz.

Adapter information:

Model: A110

Input: AC100-240V, 50/60 Hz 0.2A

Output: DC 5V, 500mA

Note: The model A110 have different samples, they are the same electromagnetic emissions and electromagnetic compatibility characteristics, the difference between them is the colour, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 151230001 (Assigned byBACL, Dongguan). The EUT was received on 2015-12-30.

Objective

This test report is prepared on behalf of *POSH Mobile Limited*. in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2AG8KA110.

FCC Part 22H, 24E PCE submissions with FCC ID: 2AG8KA110.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

The software “winthrax.exe” was used during test.

Equipment Modifications

No modification was made to the EUT tested.

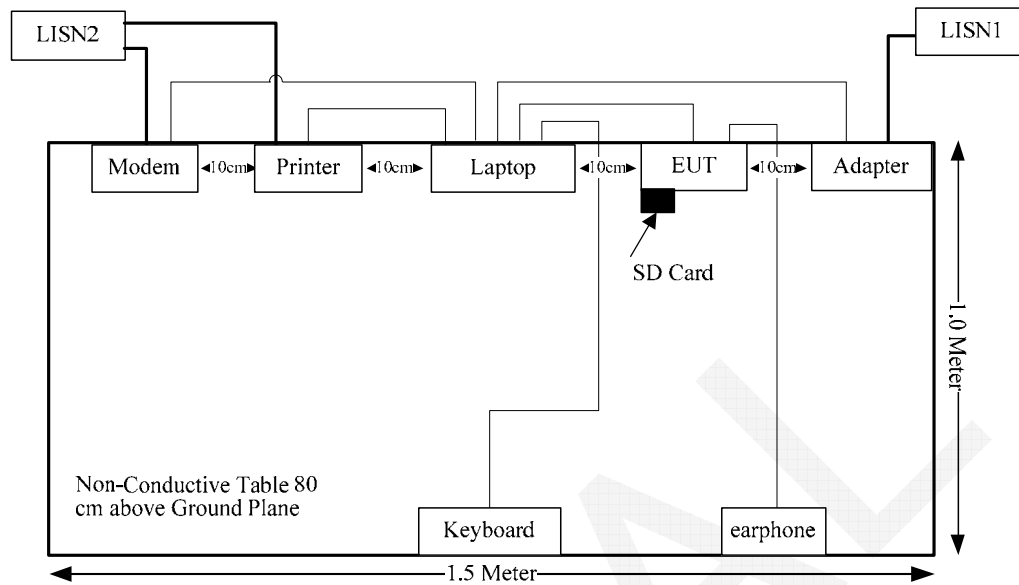
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	No	1.8	Keyboard Port of Laptop	Keyboard
USB Cable	no	No	0.85	Laptop	EUT

Configuration of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non- compliance with a disturbance limit shall be determined in the following manner

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The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter of laptop was connected to a 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30

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Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

9.0 dB at 1.407671 MHz in the **Line** conducted mode

Test Data

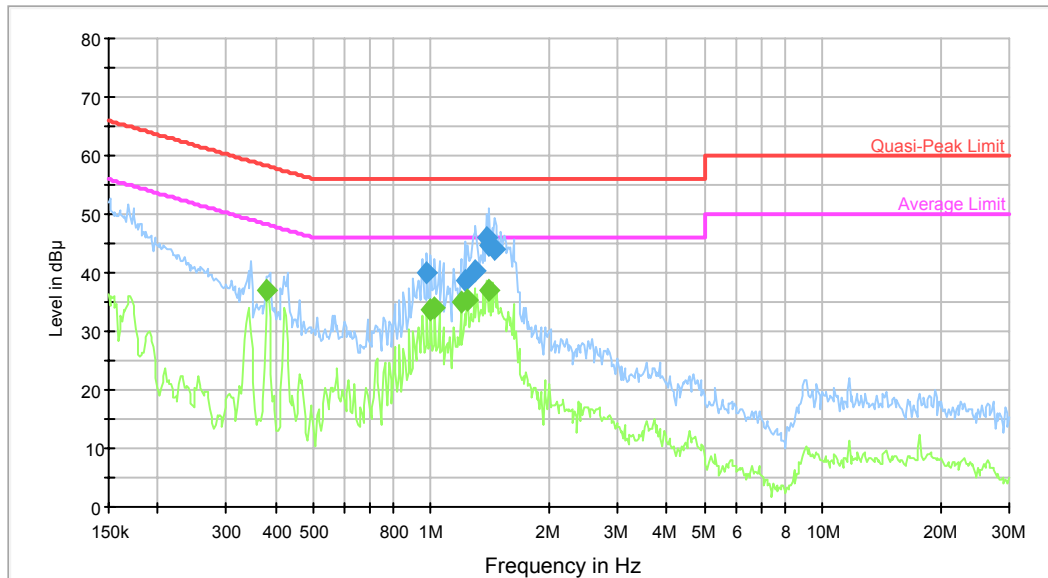
Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	46 %
ATM Pressure:	101.4 kPa

The testing was performed by Allen Qiao on 2016-01-04.

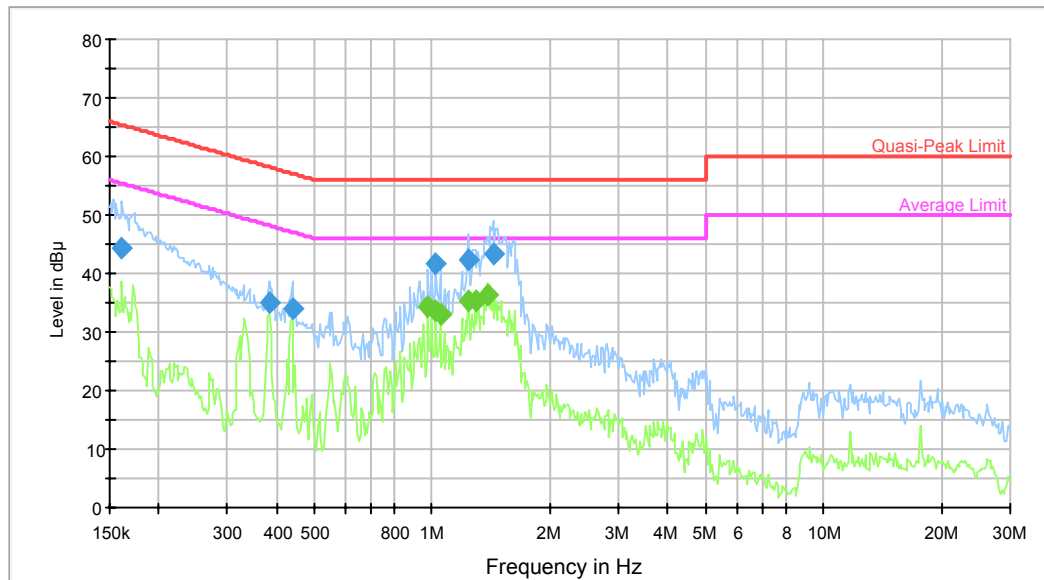
Test Mode: Downloading

AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.975701	40.0	9.000	L1	9.8	16.0	56.0	Compliance
1.219583	38.7	9.000	L1	9.8	17.3	56.0	Compliance
1.299858	40.5	9.000	L1	9.8	15.5	56.0	Compliance
1.385415	46.0	9.000	L1	9.8	10.0	56.0	Compliance
1.407671	44.8	9.000	L1	9.8	11.2	56.0	Compliance
1.453260	44.1	9.000	L1	9.8	11.9	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.381043	37.0	9.000	L1	9.8	11.3	48.3	Compliance
0.999305	33.6	9.000	L1	9.8	12.4	46.0	Compliance
1.023481	34.0	9.000	L1	9.8	12.0	46.0	Compliance
1.190776	35.1	9.000	L1	9.8	10.9	46.0	Compliance
1.239175	35.4	9.000	L1	9.8	10.6	46.0	Compliance
1.407671	37.0	9.000	L1	9.8	9.0	46.0	Compliance

AC120V, 60Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.161152	44.3	9.000	N	9.7	21.1	65.4	Compliance
0.384091	35.0	9.000	N	9.7	23.2	58.2	Compliance
0.439808	34.1	9.000	N	9.7	23.0	57.1	Compliance
1.023481	41.8	9.000	N	9.8	14.2	56.0	Compliance
1.239175	42.3	9.000	N	9.8	13.7	56.0	Compliance
1.430284	43.2	9.000	N	9.8	12.8	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.975701	34.4	9.000	N	9.8	11.6	46.0	Compliance
1.023481	33.8	9.000	N	9.8	12.2	46.0	Compliance
1.048242	32.9	9.000	N	9.8	13.1	46.0	Compliance
1.239175	35.2	9.000	N	9.8	10.8	46.0	Compliance
1.289541	35.3	9.000	N	9.8	10.7	46.0	Compliance
1.385415	36.2	9.000	N	9.8	9.8	46.0	Compliance

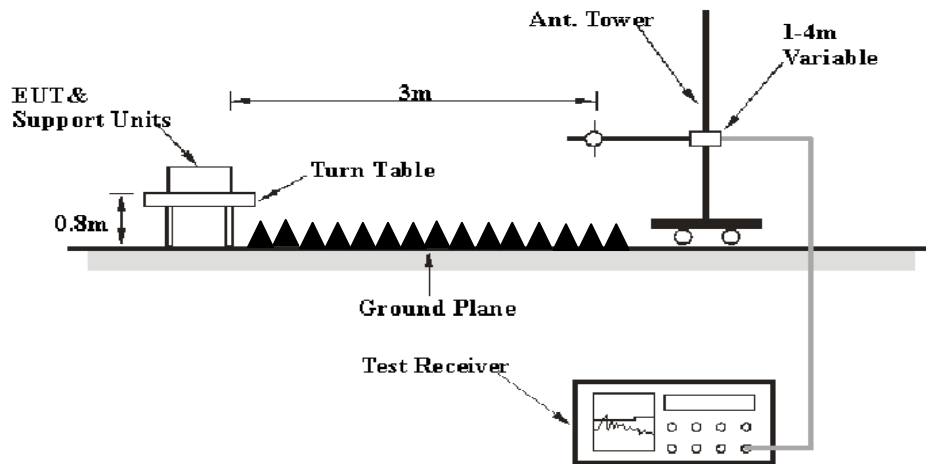
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner

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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 12.5 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	Ave.

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

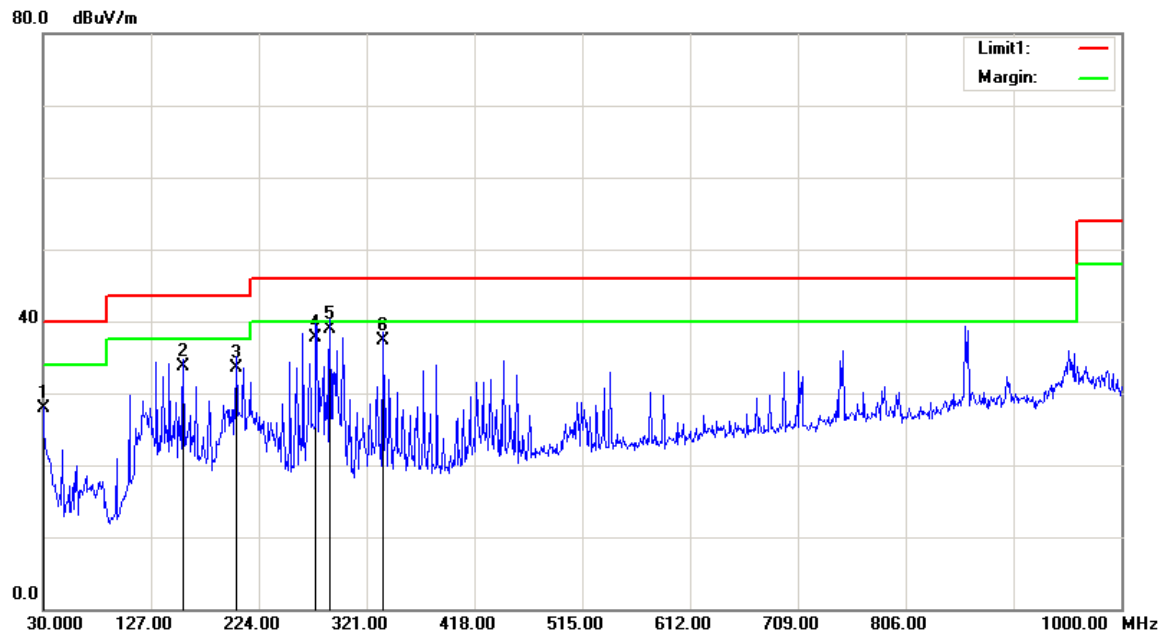
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations

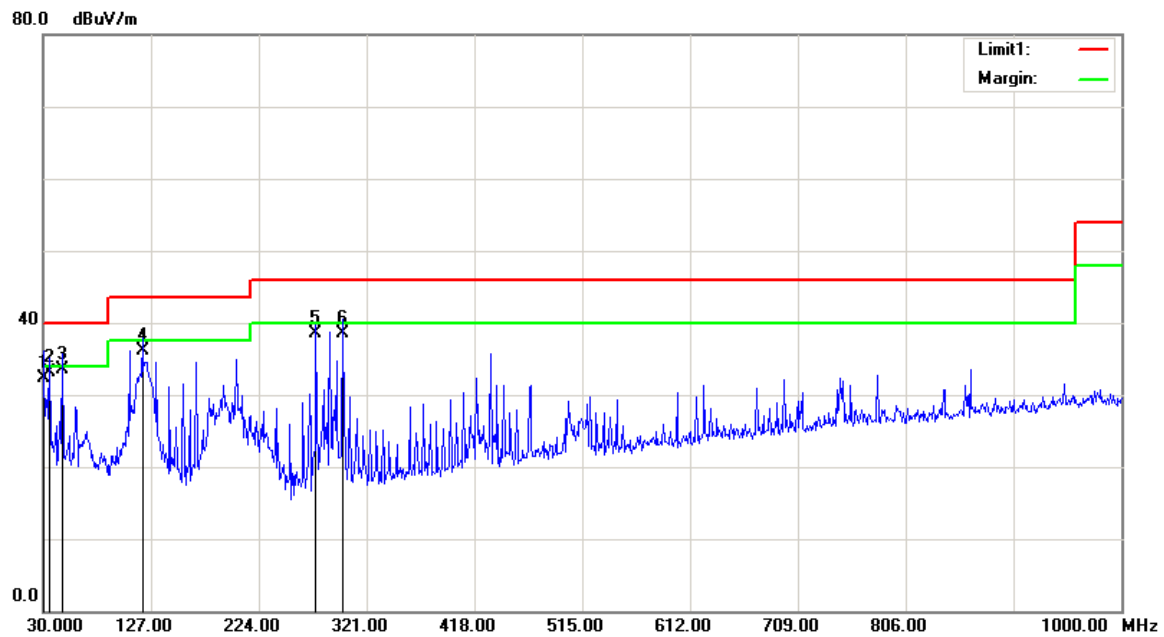
Test Mode: Downloading

1) Below 1GHz:

Horizontal



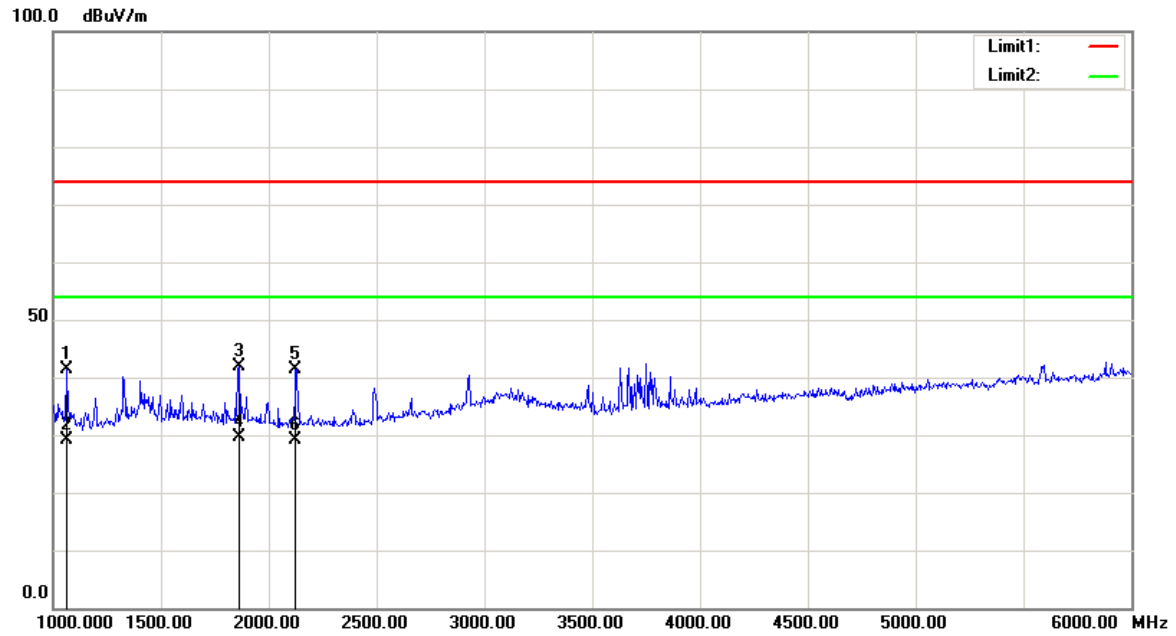
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	26.30	QP	1.70	28.00	40.00	12.00
156.1000	40.89	QP	-7.09	33.80	43.50	9.70
203.6300	41.17	QP	-7.67	33.50	43.50	10.00
275.4100	43.56	QP	-5.76	37.80	46.00	8.20
288.0200	44.48	QP	-5.58	38.90	46.00	7.10
335.5500	42.08	QP	-4.68	37.40	46.00	8.60

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	30.60	QP	1.70	32.30	40.00	7.70
35.8200	36.18	QP	-2.98	33.20	40.00	6.80
47.4600	44.39	QP	-10.79	33.60	40.00	6.40
119.2400	42.20	QP	-6.00	36.20	43.50	7.30
275.4100	44.26	QP	-5.76	38.50	46.00	7.50
299.6600	44.02	QP	-5.42	38.60	46.00	7.40

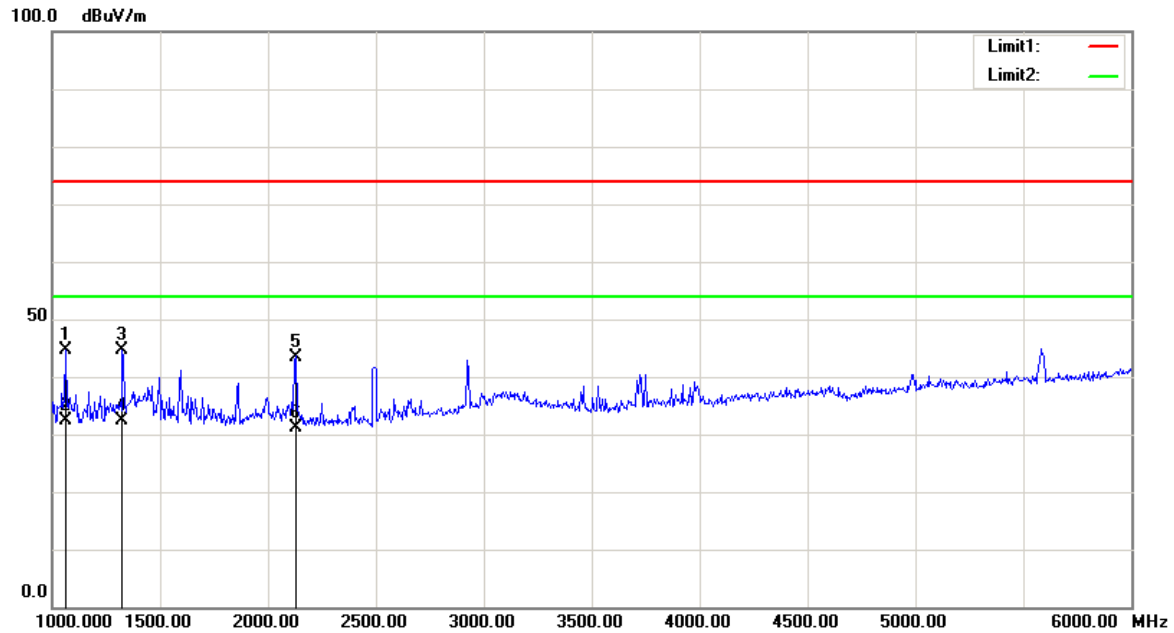
2) Above 1GHz:

Horizontal



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1062.500	42.84	peak	-1.51	41.33	74.00	32.67
1062.500	30.55	AVG	-1.51	29.04	54.00	24.96
1862.500	42.11	peak	-0.25	41.86	74.00	32.14
1862.500	29.77	AVG	-0.25	29.52	54.00	24.48
2127.500	41.33	peak	0.08	41.41	74.00	32.59
2127.500	28.95	AVG	0.08	29.03	54.00	24.97

Note: For above 6 GHz, no emission was detected.

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1062.500	46.16	peak	-1.51	44.65	74.00	29.35
1062.500	33.82	AVG	-1.51	32.31	54.00	21.69
1327.500	45.10	peak	-0.59	44.51	74.00	29.49
1327.500	32.85	AVG	-0.59	32.26	54.00	21.74
2130.000	43.43	peak	0.07	43.50	74.00	30.50
2130.000	31.12	AVG	0.07	31.19	54.00	22.81

Note: For above 6 GHz, no emission was detected.

DECLARATION LETTER

POSH Mobile Limited

Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon,
Hong Kong

Tel: +852 31889834

Fax: 852 3904 4979

DECLARATION OF SIMILARITY

Date: 2015-12-30

Dear Sir or Madam:

We, POSH Mobile Limited, hereby declare that product name: Lynx Plus, model: A110, they are the same electromagnetic emissions and electromagnetic compatibility characteristics. A description of the difference among the 2 samples and those that are declared similar are as follows:

1) They have different colours

The rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:

Warren Chan

Manager



***** END OF REPORT *****