

FCC RF Test Report

(NFC)

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: LG8n

Trade Mark: TECNO

FCC ID: 2ADYY-LG8N

Applicable Standards: FCC CFR Title 47 Part 15C (§15.225)

Date of Sample Receipt: 01 Jun., 2022

Date of Test: 02 Jun., to 23 Jun., 2022

Date of Report Issue: 24 Jun., 2022

Test Result: PASS

Tested by: Mike Ou

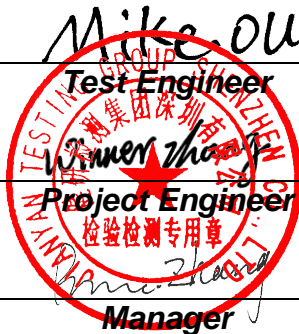
Date: 24 Jun., 2022

Reviewed by: Wenwen Zhang

Date: 24 Jun., 2022

Approved by: Wenwen Zhang

Date: 24 Jun., 2022



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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2 Version

Version No.	Date	Description
00	24 Jun., 2022	Original

3 Contents

Page

1	Cover Page	1
2	Version	2
3	Contents	3
4	General Information	4
4.1	Client Information	4
4.2	General Description of E.U.T.	4
4.3	Test Mode and Environment	5
4.4	Description of Test Auxiliary Equipment.....	5
4.5	Measurement Uncertainty.....	5
4.6	Additions to, Deviations, or Exclusions From the Method	5
4.7	Laboratory Facility.....	5
4.8	Laboratory Location	5
4.9	Test Instruments List	6
5	Measurement Setup and Procedure	7
5.1	Test Setup	7
5.2	Test Procedure	8
6	Test Results	9
6.1	Summary	9
6.2	Antenna Requirement	11
6.3	AC Power Line Conducted Emission	12
6.4	20dB Bandwidth	14
6.5	Field Strength of Fundamental.....	15
6.6	Field Strength of Spurious Emissions	17
6.7	Frequency Tolerance.....	21

4 General Information

4.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 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

4.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	LG8n
Operation Frequency:	13.56MHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Type:	Induction Coil Antenna
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 5850mAh
AC Adapter:	Model: U450TSA Input: AC100-240V, 50/60Hz, 1.8A Output: DC 5.0V, 2.0A or 11.0V, 4.1A MAX
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation
<i>Remark: Pre-scan The EUT was placed on three different polar directions tested: i.e. X axis, Y axis, Z axis, and found Y axis was worse case, so the report only reflects the worse axis tested data.</i>	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

4.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
N/A	N/A	N/A	N/A	N/A

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 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.

4.6 Additions to, Deviations, or Exclusions From the Method

No

4.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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
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4.8 Laboratory Location

<p>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</p>

4.9 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	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	01-20-2022	01-19-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		
EMI Test Software	AUDIX	E3	Version: 6.110919b		

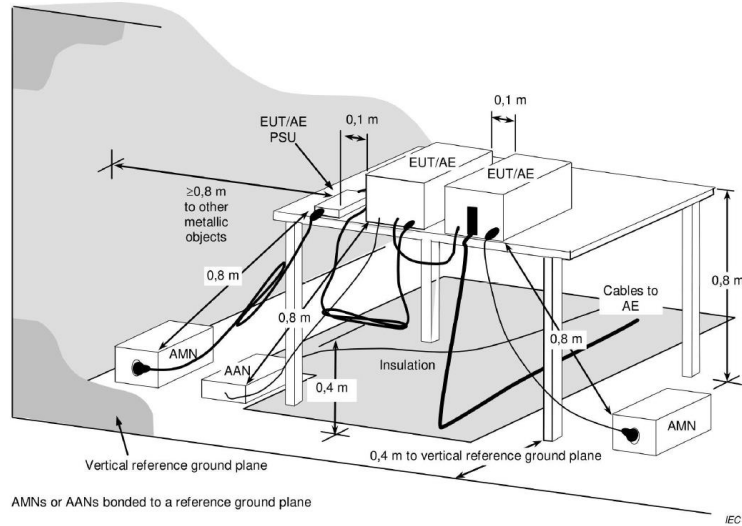
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	10-21-2021	10-20-2022
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-24-2022	02-23-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	03-30-2022	03-29-2023
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-24-2022	02-23-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	WXJ081-1	07-02-2021	07-01-2022

5 Measurement Setup and Procedure

5.1 Test Setup

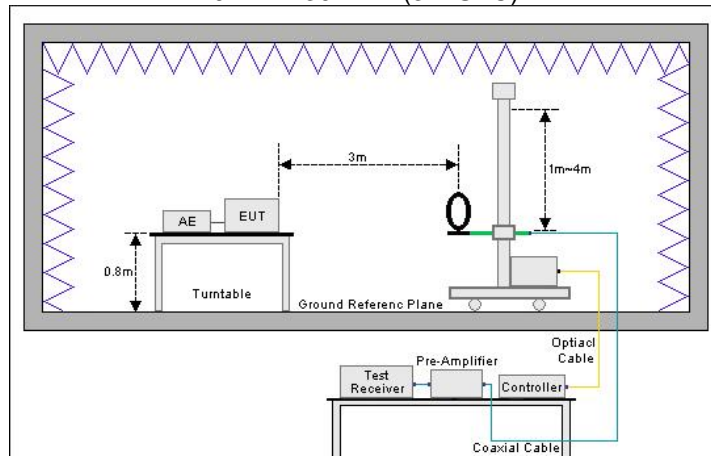
1) Conducted emission measurement:



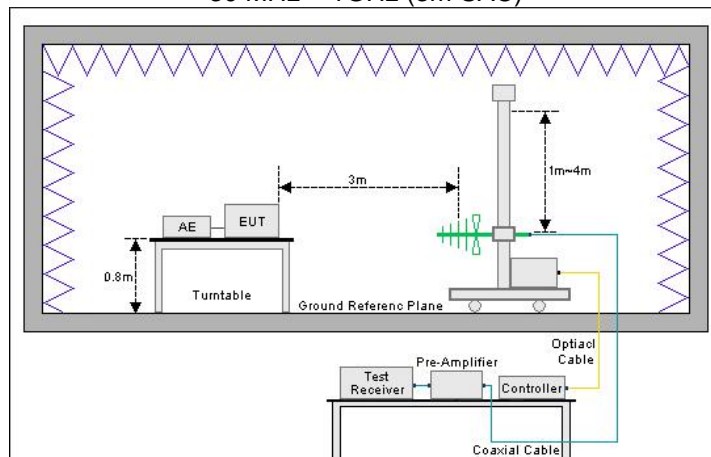
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

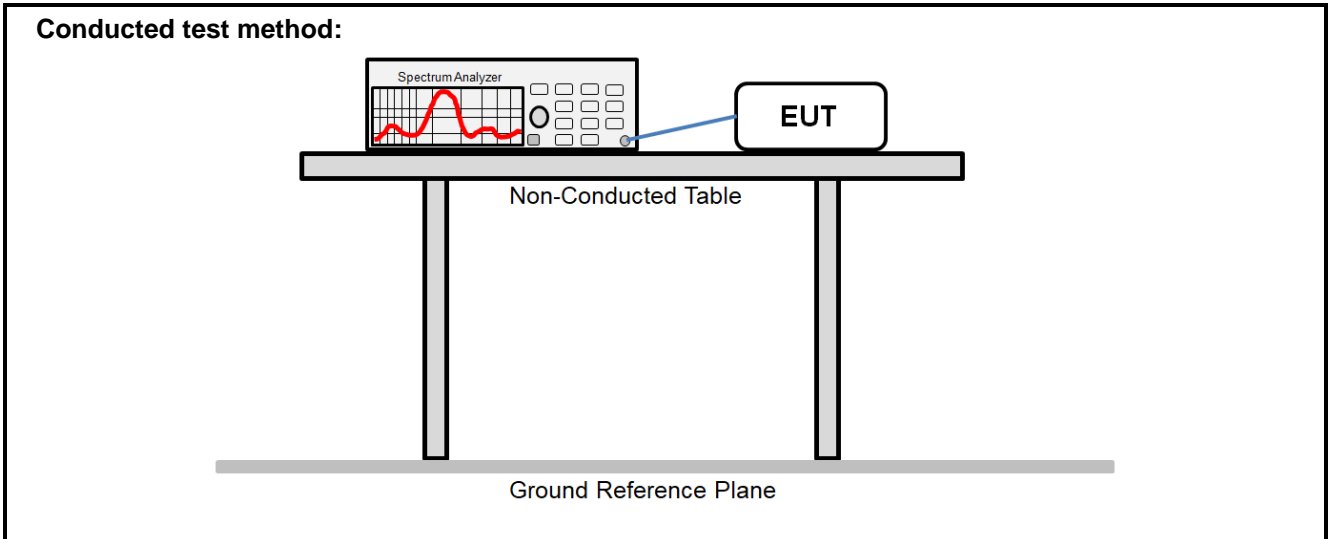
2) Radiated emission measurement:

9kHz ~ 30 MHz (3m SAC)



30 MHz ~ 1GHz (3m SAC)





5.2 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 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 C63.10 on conducted measurement.
Radiated emission	<ol style="list-style-type: none"> 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.
Conducted test method	<ol style="list-style-type: none"> 1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. The test data is saved by the screenshot function of the spectrum analyzer.

6 Test Results

6.1 Summary

6.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
20dB Bandwidth	15.215(c)	See Section 6.4	Pass
Field Strength of Fundamental	15.225 (a)(b)(c)	See Section 6.5	Pass
Field Strength of Spurious Emissions	15.209 15.225 (d)	See Section 6.6	Pass
Frequency Tolerance	15.225 (e)	See Section 6.7	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable.			
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013		

6.1.2 Test Limit

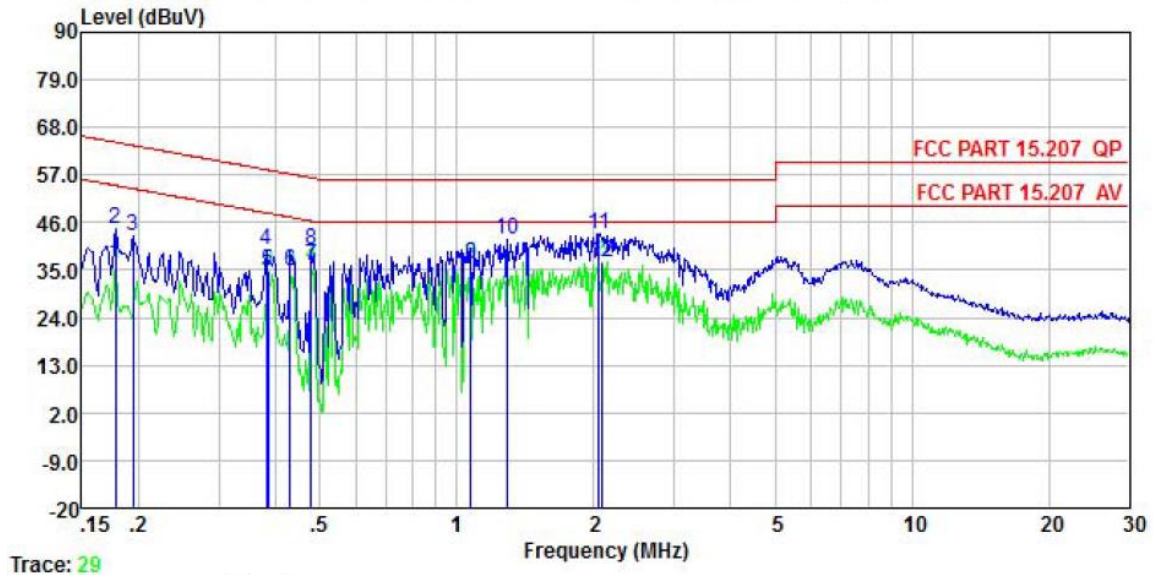
Items	Limit																								
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBµV)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 to 56 ^{Note 1}</td> <td>56 to 46 ^{Note 1}</td> </tr> <tr> <td>0.5 – 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 – 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</p>	Frequency (MHz)	Limit (dBµV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}	0.5 – 5	56	46	5 – 30	60	50										
Frequency (MHz)	Limit (dBµV)																								
	Quasi-Peak	Average																							
0.15 – 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}																							
0.5 – 5	56	46																							
5 – 30	60	50																							
20dB Bandwidth	N/A																								
Field Strength of Fundamental Field Strength of Spurious Emissions	<p>(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.</p> <p>(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.</p> <p>(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.</p> <p>(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Field strength (microvolts/meter)</th> <th>Measurement distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009 – 0.490</td> <td>2400/F(kHz)</td> <td>300</td> </tr> <tr> <td>0.490 – 1.705</td> <td>24000/F(kHz)</td> <td>30</td> </tr> <tr> <td>1.705 – 30.0</td> <td>30</td> <td>30</td> </tr> <tr> <td>30 – 88</td> <td>100**</td> <td>3</td> </tr> <tr> <td>88 – 216</td> <td>150**</td> <td>3</td> </tr> <tr> <td>216 – 960</td> <td>200**</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p>	Frequency (MHz)	Field strength (microvolts/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
Frequency (MHz)	Field strength (microvolts/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																							
Frequency Tolerance	The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.																								

6.2 Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
E.U.T Antenna:	The EUT make use of an induction coil antenna.

6.3 AC Power Line Conducted Emission

Product name:	Mobile Phone	Product model:	LG8n
Test by:	Mike	Test mode:	NFC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

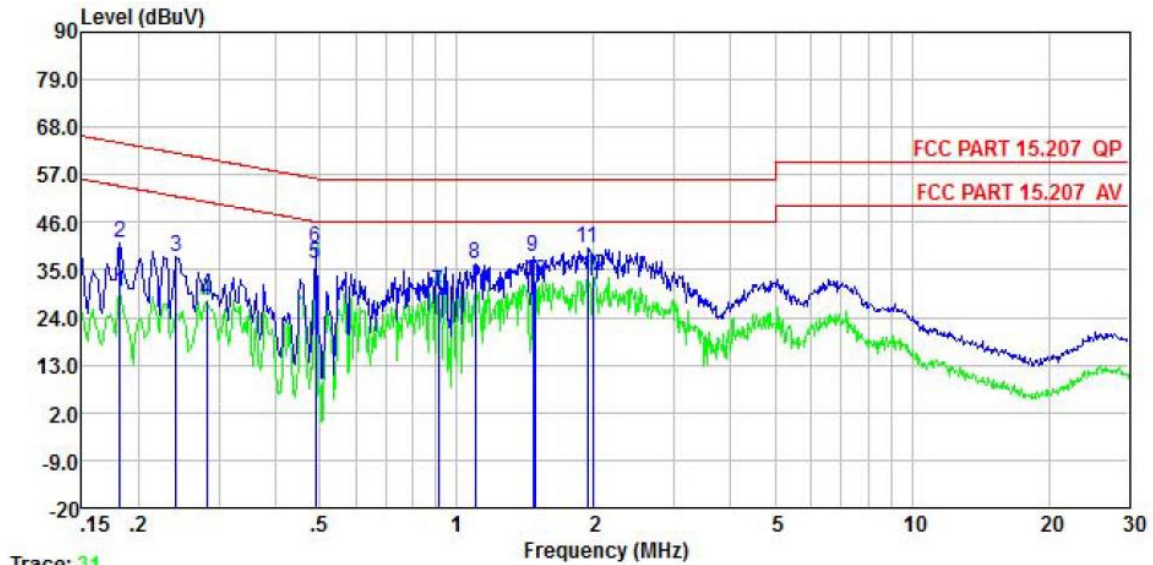


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.178	36.27	0.05	0.01	36.33	54.59	-18.26	Average
2	0.178	44.66	0.05	0.01	44.72	64.59	-19.87	QP
3	0.194	42.95	0.05	0.03	43.03	63.84	-20.81	QP
4	0.381	39.60	0.06	0.03	39.69	58.25	-18.56	QP
5	0.385	34.79	0.06	0.03	34.88	48.17	-13.29	Average
6	0.431	34.53	0.05	0.03	34.61	47.24	-12.63	Average
7	0.479	36.03	0.05	0.03	36.11	46.36	-10.25	Average
8	0.479	39.42	0.05	0.03	39.50	56.36	-16.86	QP
9	1.071	36.35	0.07	0.07	36.49	46.00	-9.51	Average
10	1.296	42.01	0.07	0.11	42.19	56.00	-13.81	QP
11	2.055	43.23	0.08	0.20	43.51	56.00	-12.49	QP
12	2.088	36.47	0.08	0.20	36.75	46.00	-9.25	Average

Remark:

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

Product name:	Mobile Phone	Product model:	LG8n
Test by:	Mike	Test mode:	NFC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 31

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	29.87	0.05	0.01	29.93	54.42	-24.49	Average
2	0.182	41.19	0.05	0.01	41.25	64.42	-23.17	QP
3	0.242	37.85	0.05	0.01	37.91	62.04	-24.13	QP
4	0.282	27.84	0.05	0.02	27.91	50.76	-22.85	Average
5	0.489	36.51	0.04	0.03	36.58	46.19	-9.61	Average
6	0.489	40.15	0.04	0.03	40.22	56.19	-15.97	QP
7	0.909	29.95	0.06	0.04	30.05	46.00	-15.95	Average
8	1.100	36.46	0.06	0.07	36.59	56.00	-19.41	QP
9	1.472	37.88	0.07	0.14	38.09	56.00	-17.91	QP
10	1.487	32.03	0.07	0.14	32.24	46.00	-13.76	Average
11	1.939	39.70	0.07	0.20	39.97	56.00	-16.03	QP
12	1.991	33.14	0.07	0.21	33.42	46.00	-12.58	Average

Remark:

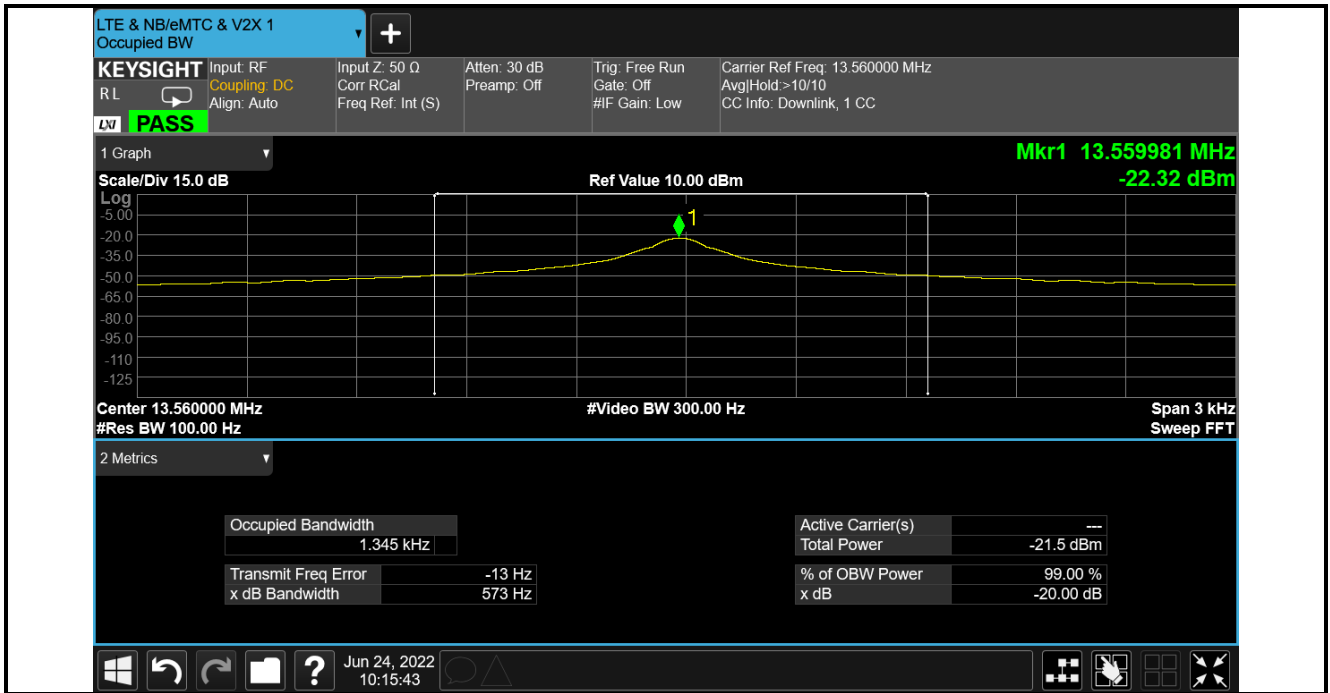
1. Level = Read level + LISN Factor + Cable Loss.

6.4 20dB Bandwidth

20dB bandwidth (kHz)	Limit (kHz)	Results
1.345	11.2	Passed

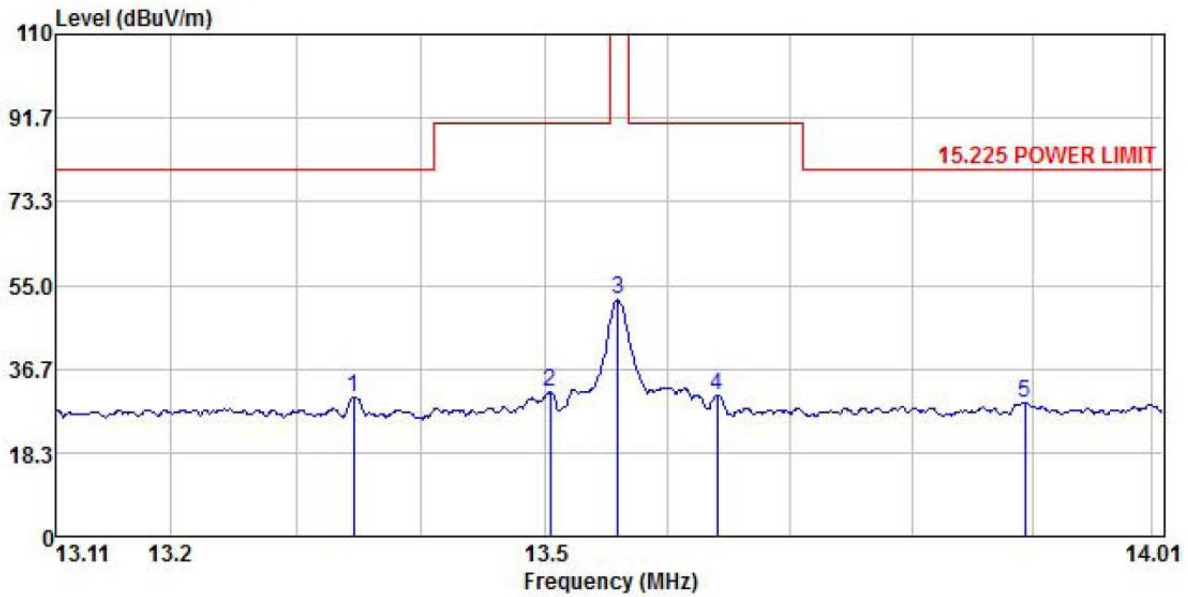
Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.

Test plot as follows:



6.5 Field Strength of Fundamental

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Voltage:	AC 120/60Hz		

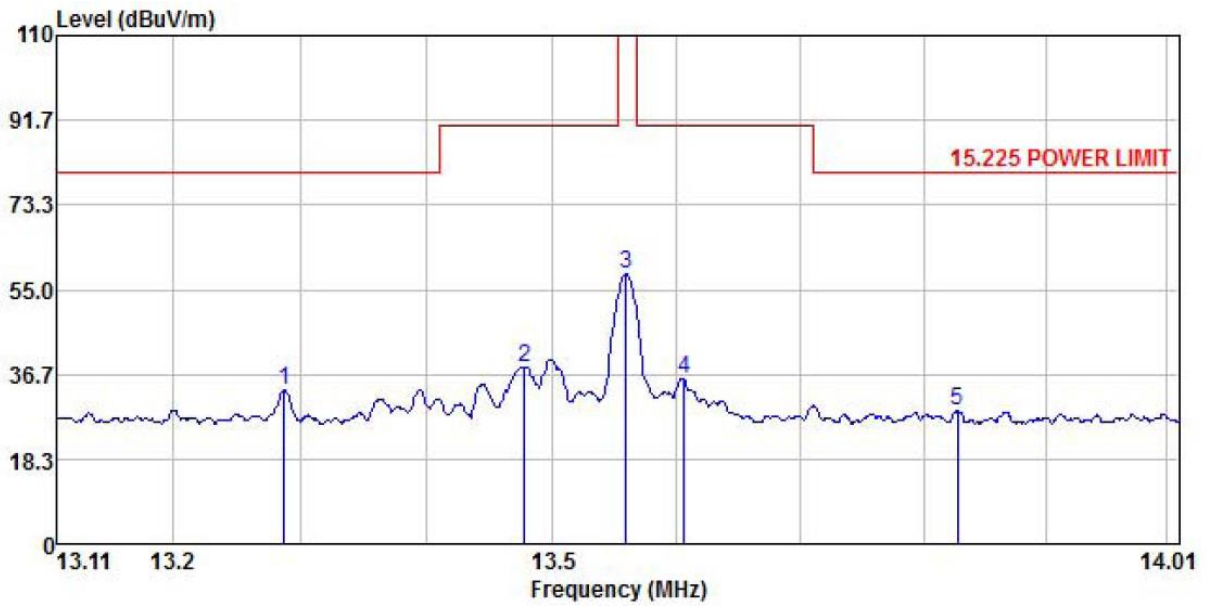


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.345	10.57	19.63	0.40	0.00	30.60	80.50	-49.90	Peak
2	13.504	11.61	19.59	0.41	0.00	31.61	90.50	-58.89	Peak
3	13.559	31.91	19.59	0.41	0.00	51.91	124.00	-72.09	Peak
4	13.640	10.99	19.57	0.42	0.00	30.98	90.50	-59.52	Peak
5	13.894	9.46	19.52	0.43	0.00	29.41	80.50	-51.09	Peak

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Voltage:	AC 120/60Hz		



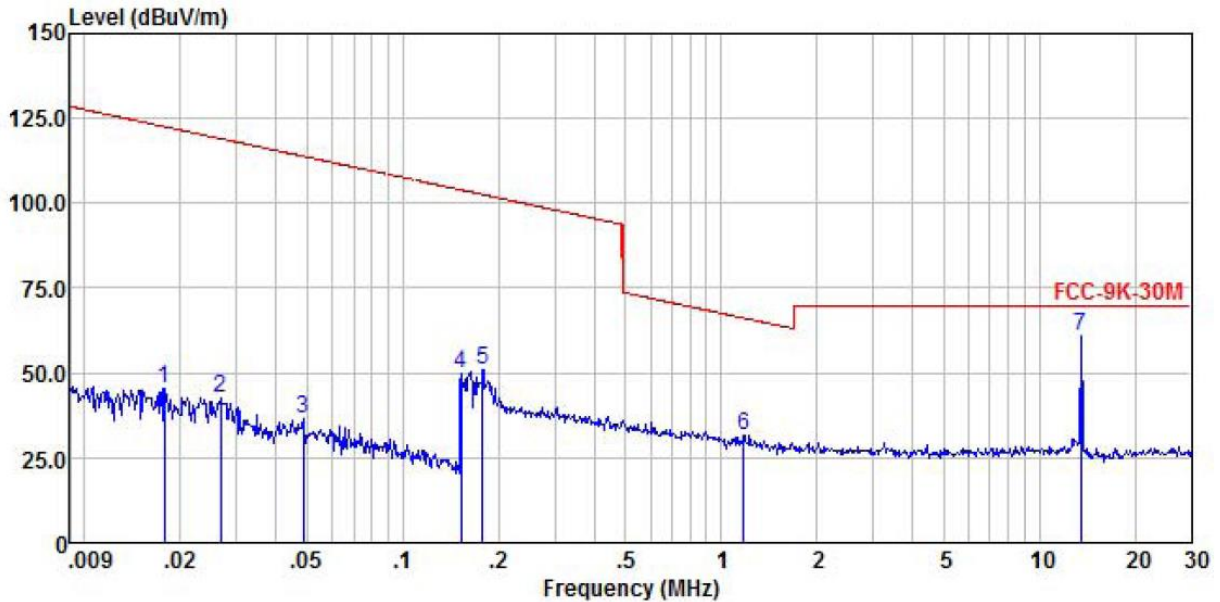
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.287	13.14	19.63	0.40	0.00	33.17	80.50	-47.33	Peak
2	13.478	18.25	19.61	0.41	0.00	38.27	90.50	-52.23	Peak
3	13.559	38.42	19.59	0.41	0.00	58.42	124.00	-65.58	Peak
4	13.606	15.68	19.57	0.42	0.00	35.67	90.50	-54.83	Peak
5	13.828	8.82	19.52	0.43	0.00	28.77	80.50	-51.73	Peak

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

6.6 Field Strength of Spurious Emissions

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	9 kHz – 30 MHz	Polarization:	Coxial
Test Voltage:	DC 3.87V		

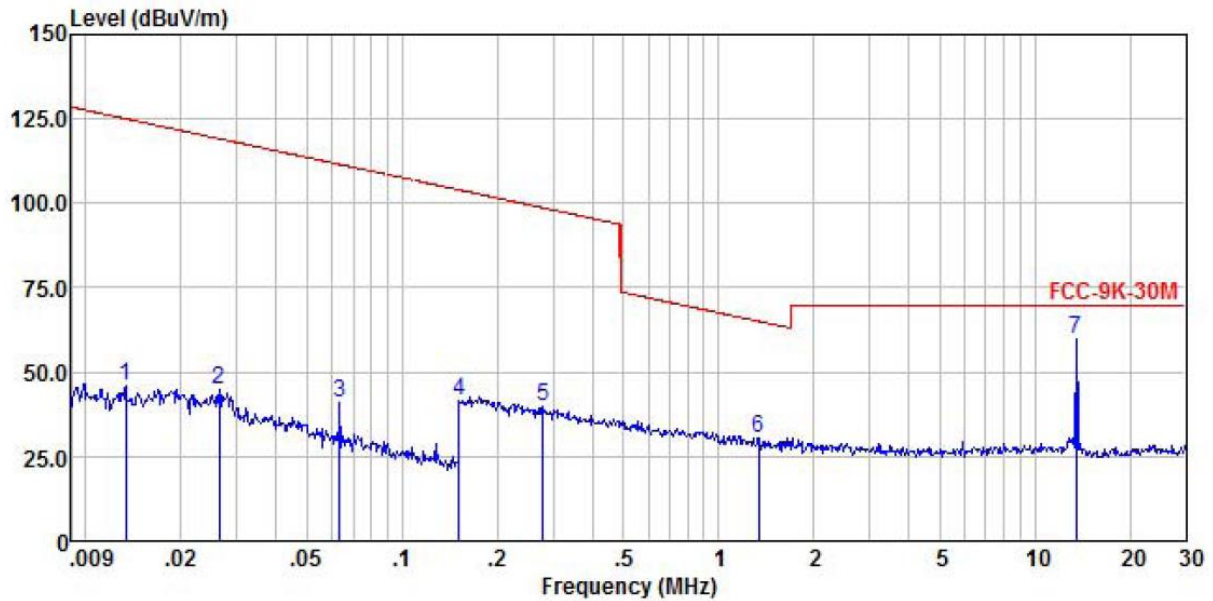


	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.018	24.99	20.34	0.01	0.00	45.34	122.58	-77.24	Peak
2	0.027	22.24	20.23	0.01	0.00	42.48	119.06	-76.58	Peak
3	0.049	16.17	20.58	0.02	0.00	36.77	113.84	-77.07	Peak
4	0.153	29.45	20.21	0.03	0.00	49.69	103.95	-54.26	Peak
5	0.178	30.50	20.29	0.04	0.00	50.83	102.61	-51.78	Peak
6	1.179	10.72	20.49	0.17	0.00	31.38	66.20	-34.82	Peak
7	13.548	40.87	19.59	0.41	0.00	60.87	69.50	-8.63	Peak

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz–150 kHz are background noise and very lower than the limit, so not show in test report.

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	150 kHz – 30 MHz	Polarization:	Coplanar
Test Voltage:	DC 3.87V		

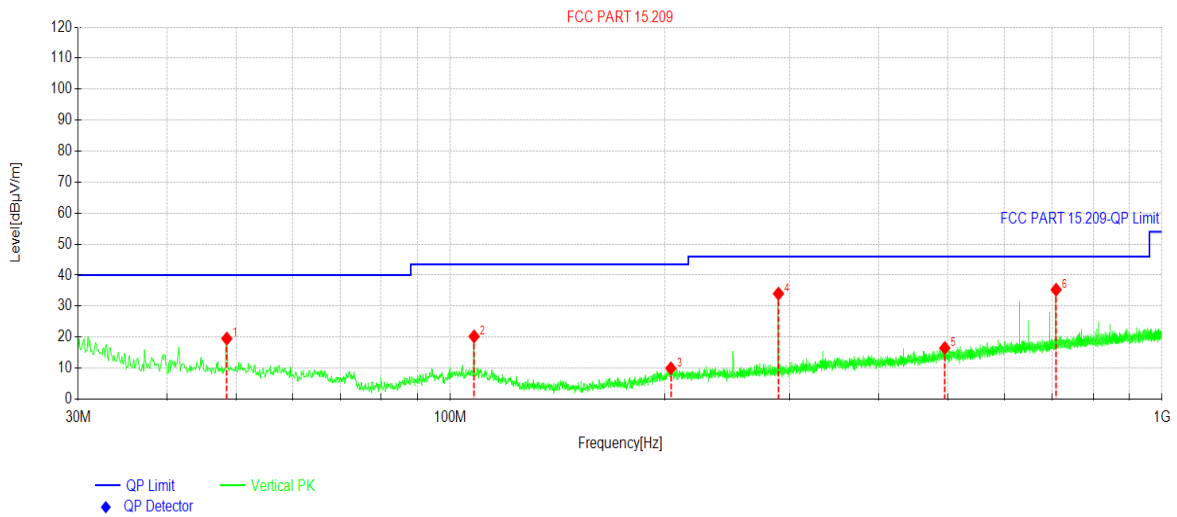


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.013	25.28	20.42	0.01	0.00	45.71	125.05	-79.34	Peak
2	0.026	24.74	20.23	0.01	0.00	44.98	119.13	-74.15	Peak
3	0.064	20.27	20.53	0.02	0.00	40.82	111.52	-70.70	Peak
4	0.151	21.34	20.20	0.03	0.00	41.57	104.02	-62.45	Peak
5	0.278	19.51	20.51	0.06	0.00	40.08	98.72	-58.64	Peak
6	1.342	9.69	20.47	0.17	0.00	30.33	65.07	-34.74	Peak
7	13.548	39.51	19.59	0.41	0.00	59.51	69.50	-9.99	Peak

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, so not show in test report.

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Vertical
Test Voltage:	DC 3.87V		

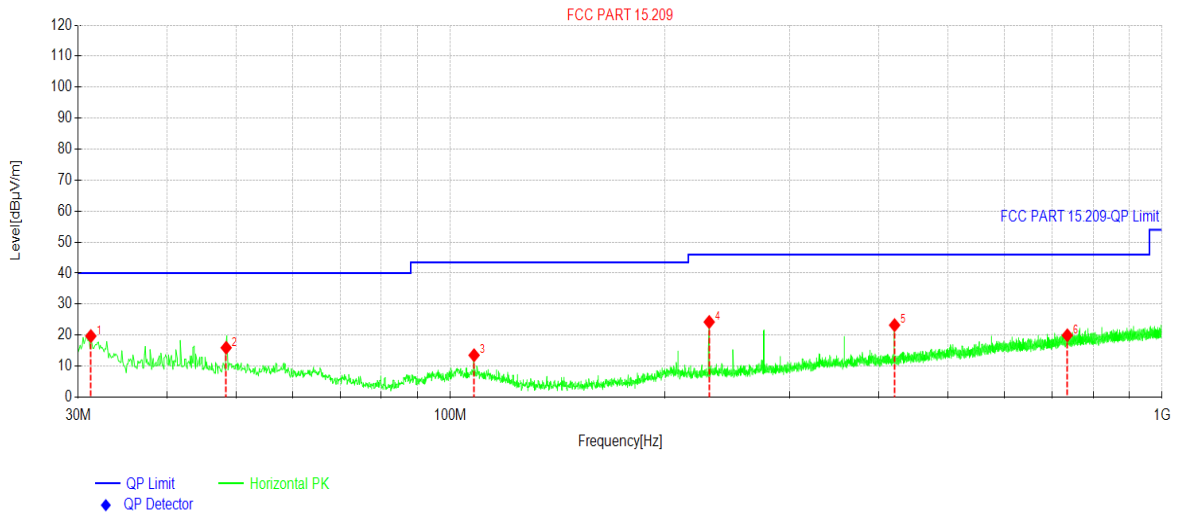


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	48.5289	32.31	19.53	-12.78	40.00	20.47	PK	Vertical
2	107.995	34.96	20.23	-14.73	43.50	23.27	PK	Vertical
3	204.132	24.98	9.94	-15.04	43.50	33.56	PK	Vertical
4	289.112	47.28	34.03	-13.25	46.00	11.97	PK	Vertical
5	495.161	25.58	16.49	-9.09	46.00	29.51	PK	Vertical
6	709.941	40.61	35.30	-5.31	46.00	10.70	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	Mobile Phone	Product Model:	LG8n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	31.2611	35.31	19.69	-15.62	40.00	20.31	PK	Horizontal
2	48.4318	28.70	15.92	-12.78	40.00	24.08	PK	Horizontal
3	107.995	28.24	13.51	-14.73	43.50	29.99	PK	Horizontal
4	231.101	38.76	24.24	-14.52	46.00	21.76	PK	Horizontal
5	420.949	33.82	23.23	-10.59	46.00	22.77	PK	Horizontal
6	736.036	24.68	19.93	-4.75	46.00	26.07	PK	Horizontal

Remark:

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

6.7 Frequency Tolerance

Frequency Stability V.S. Temperature Measurement:

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
3.87	-20	0.054	0.000	±0.01	Pass
	-10	0.056	0.000	±0.01	Pass
	0	-0.114	-0.001	±0.01	Pass
	+10	-0.056	0.000	±0.01	Pass
	+20	-0.116	-0.001	±0.01	Pass
	+30	0.103	0.001	±0.01	Pass
	+40	-0.058	0.000	±0.01	Pass
	+50	0.098	0.001	±0.01	Pass

Frequency Stability V.S. Voltage Measurement:

Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
25.0	3.45	-0.019	0.000	±0.01	Pass
	3.87	0.021	0.000	±0.01	Pass
	4.45	0.017	0.000	±0.01	Pass

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