



EMC TEST REPORT

Product Name: Smart phone

Model Name: A151

FCC ID: 2A9SN-A151

Issued For : INOI Limited

Office 302, Dominion Centre 43-59, Queens Road, East
Wanchai, Hong Kong, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,
No.177 Renmin West Road, Jinsha Community, Kengzi Street,
Pingshan New District, Shenzhen, China

Report Number: LGT23A013EM01

Sample Received Date: Jan. 10, 2023

Date of Test: Jan. 10, 2023 ~ Feb. 15, 2023

Date of Issue: Feb. 15, 2023

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TEST REPORT CERTIFICATION

Applicant INOI Limited
Address Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Manufacture INOI Limited
Address Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China
Product Name Smart phone
Trademark INOI
Model Name A151
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

Prepared by:

Terry Zhao

Terry Zhao
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Feb. 15, 2023	Initial Issue



1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	Note 1 Note 2

Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- 3 There're have 32GB and 64GB two kinds of memory configurations



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.40
Radiated Emissions	1000 ~ 18000	5.49

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart phone
Trademark	INOI
Model Name	A151
Series Model	N/A
Model Difference	N/A
Adapter	Model: IN-C01/19 Input: AC 100-240~50/60Hz 0.25A Output: DC 5V, 2A
Battery	Capacity: 5000mAh Rated Voltage: 3.85V
Test Voltage	AC 120V/60Hz
Hardware Version	V4910A_PCB_MB_8L_1_HDI_V1.1
Software Version	INOI_A151_12.0_INOI_RU_v01

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Description
Mode 1	Charging +GSM link+BT+Wi-Fi+GPS +Camera recording
Mode 2	Charging +WCDMA link+BT+Wi-Fi+Galileo+Camera recording
Mode 3	Charging +LTE link+BT+Wi-Fi+GPS+ Camera recording
Mode 4	USB Data Transmission

Note: Only the data of worst-case mode 1 was recorded in this report.

2.3 DESCRIPTION OF THE SUPPORT UNITS

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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	INOI Limited	IN-C01/19	N/A	Input 100-240V-50/60Hz 0.25A Output 5V 2A
USB A to USB C Cable	INOI Limited	N/A	N/A	1m, unshielded, without ferrite core

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	HUAWEI	HKF-16	N/A	N/A
Earphone	N/A	39630078	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				
Radiated Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2024.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

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.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

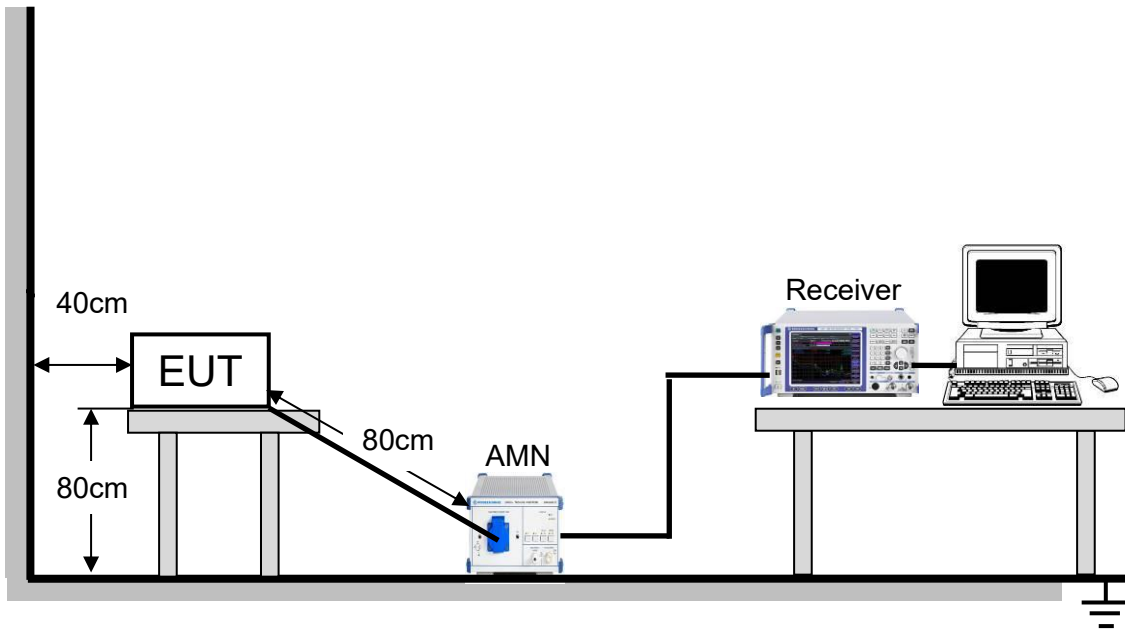
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.



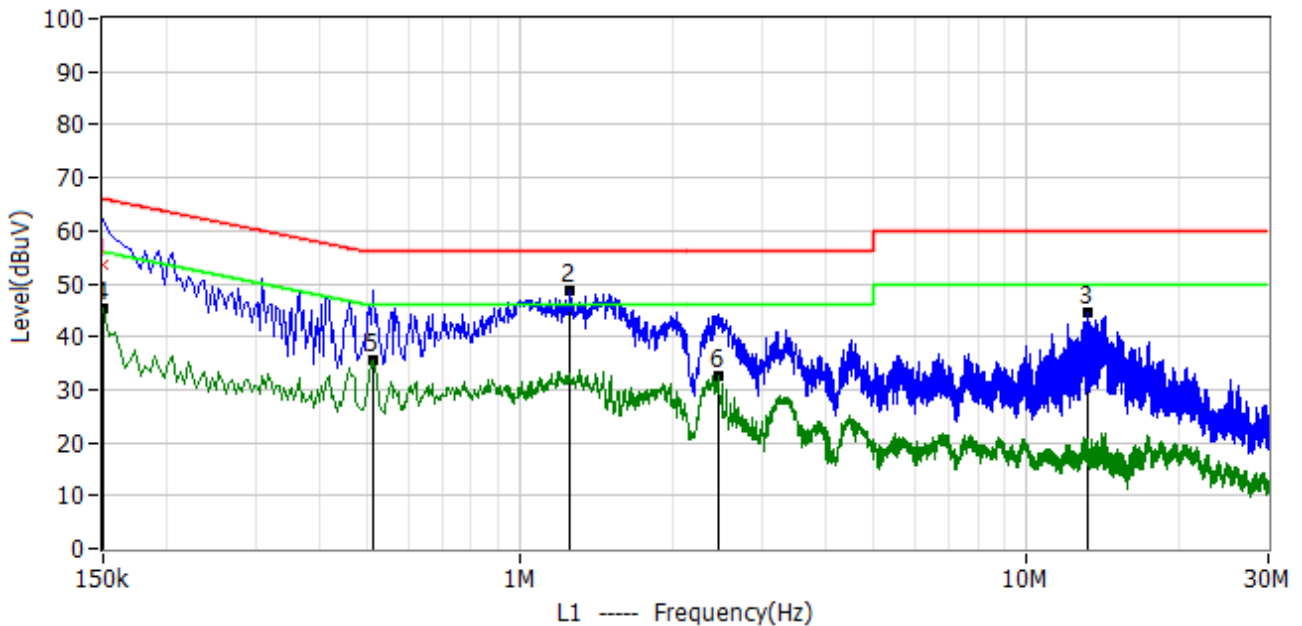
3.1.3 TEST SETUP





3.1.4 TEST RESULTS

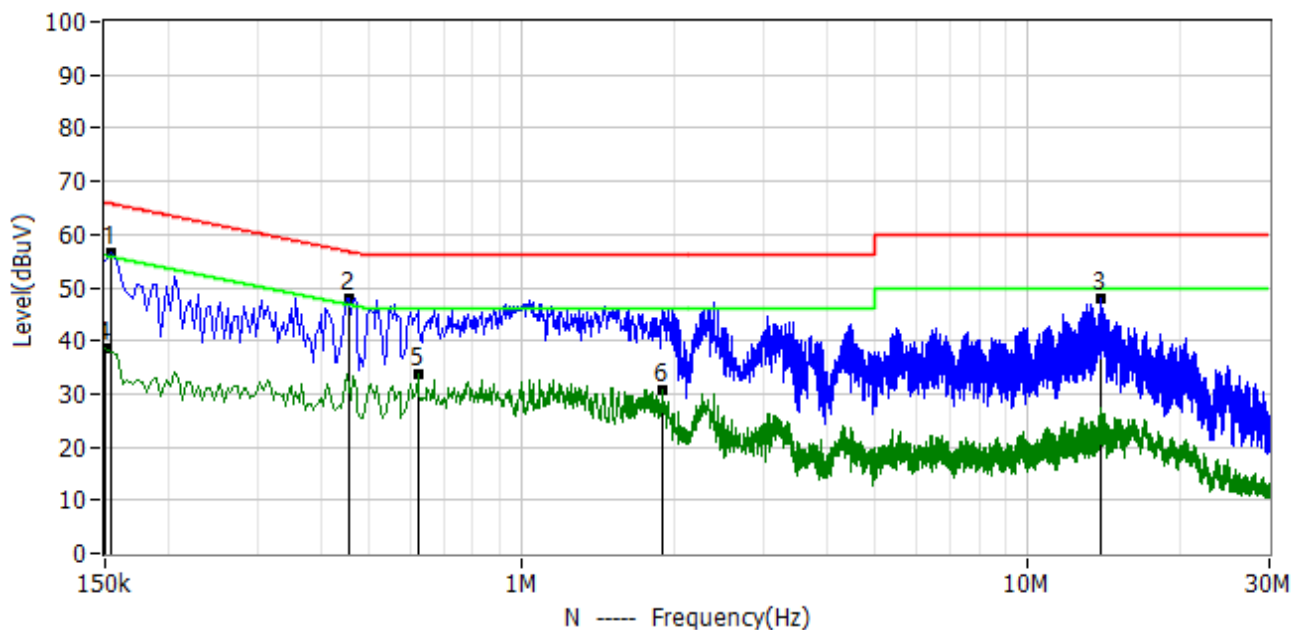
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 22.6°C
M/N: A151	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-09
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 64G	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1	150.000kHz	43.04	10.50	53.54	66.00	-12.46	QP	L1
2*	1.254MHz	38.00	10.58	48.58	56.00	-7.42	PK	L1
3*	13.166MHz	33.67	11.01	44.68	60.00	-15.32	PK	L1
4*	150.000kHz	34.91	10.50	45.41	56.00	-10.59	AV	L1
5*	514.000kHz	24.92	10.51	35.43	46.00	-10.57	AV	L1
6*	2.454MHz	21.99	10.75	32.74	46.00	-13.26	AV	L1



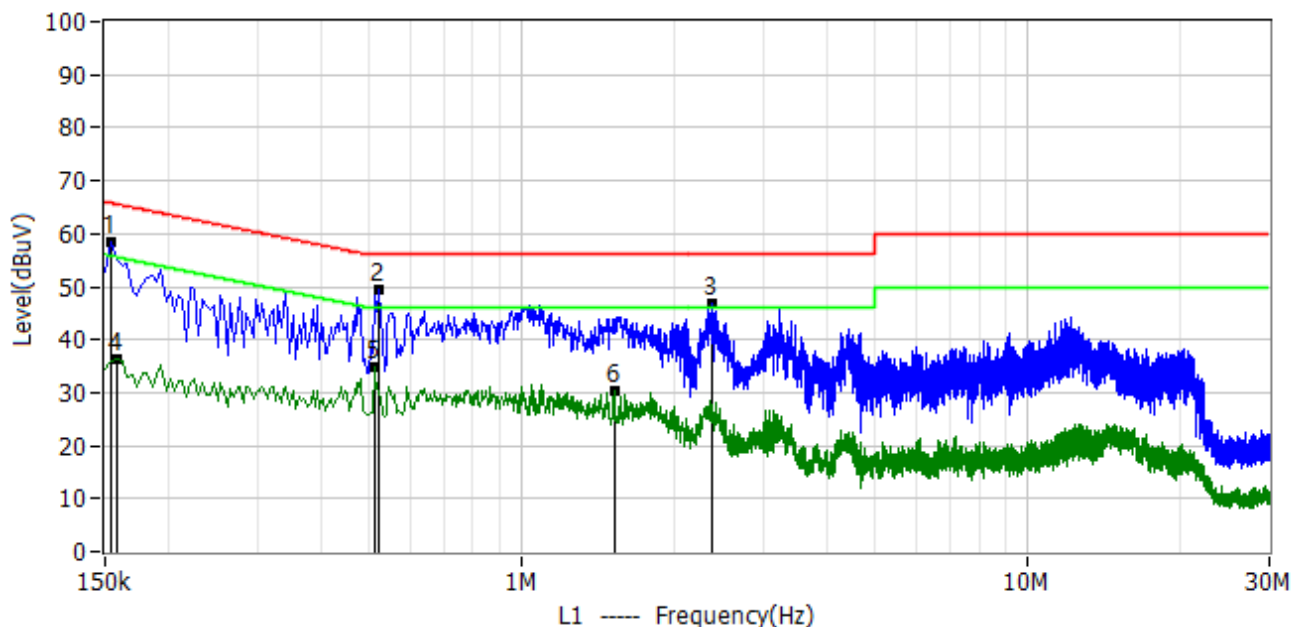
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 22.6°C
M/N: A151	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-09
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 64G	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	154.000kHz	46.12	10.50	56.62	65.78	-9.16	PK	N
2*	454.000kHz	37.47	10.50	47.97	56.80	-8.83	PK	N
3*	13.974MHz	36.81	11.02	47.83	60.00	-12.17	PK	N
4*	150.000kHz	28.00	10.50	38.50	56.00	-17.50	AV	N
5*	622.000kHz	23.19	10.51	33.70	46.00	-12.30	AV	N
6*	1.894MHz	20.02	10.72	30.74	46.00	-15.26	AV	N



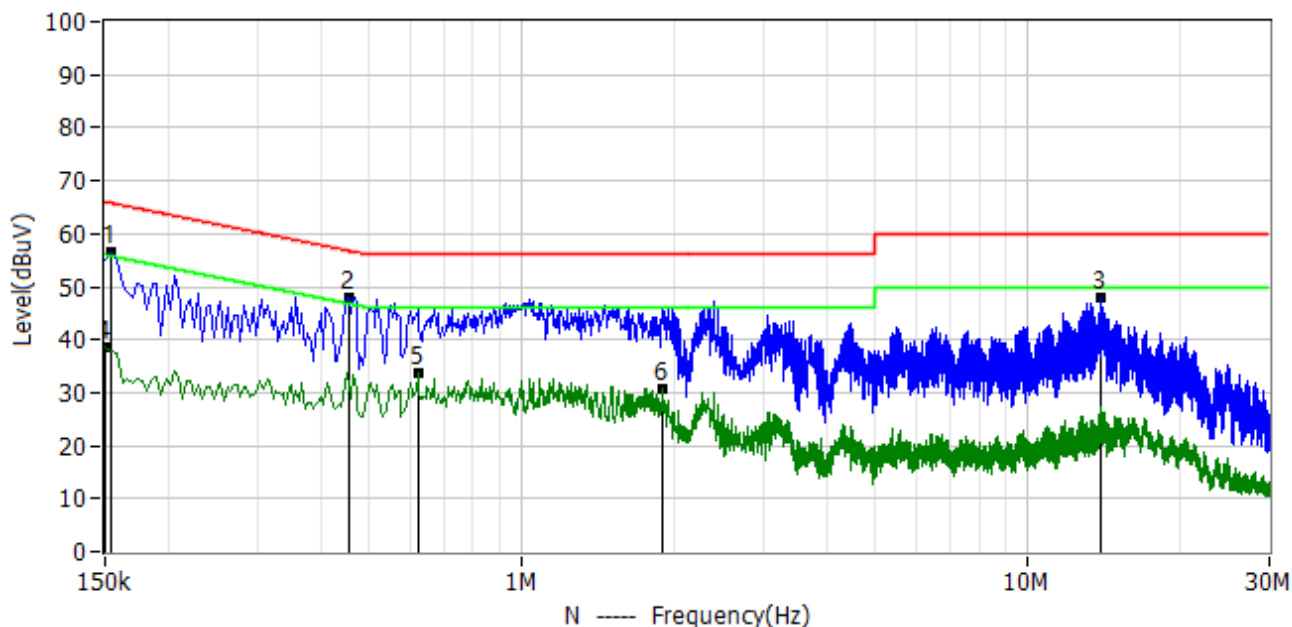
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 22.6°C
M/N: A151	Humidity: 53%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 32G	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	154.000kHz	47.74	10.50	58.24	65.78	-7.54	PK	L1
2*	522.000kHz	39.06	10.51	49.57	56.00	-6.43	PK	L1
3*	2.370MHz	35.97	10.75	46.72	56.00	-9.28	PK	L1
4*	158.000kHz	25.81	10.50	36.31	55.57	-19.26	AV	L1
5*	510.000kHz	24.40	10.51	34.91	46.00	-11.09	AV	L1
6*	1.522MHz	19.58	10.64	30.22	46.00	-15.78	AV	L1



Project: LGT22A013	Test Engineer: Dylan.shi
EUT: Smartphone	Temperature: 22.6°C
M/N: A151	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 32G	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	154.000kHz	46.12	10.50	56.62	65.78	-9.16	PK	N
2*	454.000kHz	37.47	10.50	47.97	56.80	-8.83	PK	N
3*	13.974MHz	36.81	11.02	47.83	60.00	-12.17	PK	N
4*	150.000kHz	28.00	10.50	38.50	56.00	-17.50	AV	N
5*	622.000kHz	23.19	10.51	33.70	46.00	-12.30	AV	N
6*	1.894MHz	20.02	10.72	30.74	46.00	-15.26	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),
 Margin Level = Measurement Value - Limit Value.

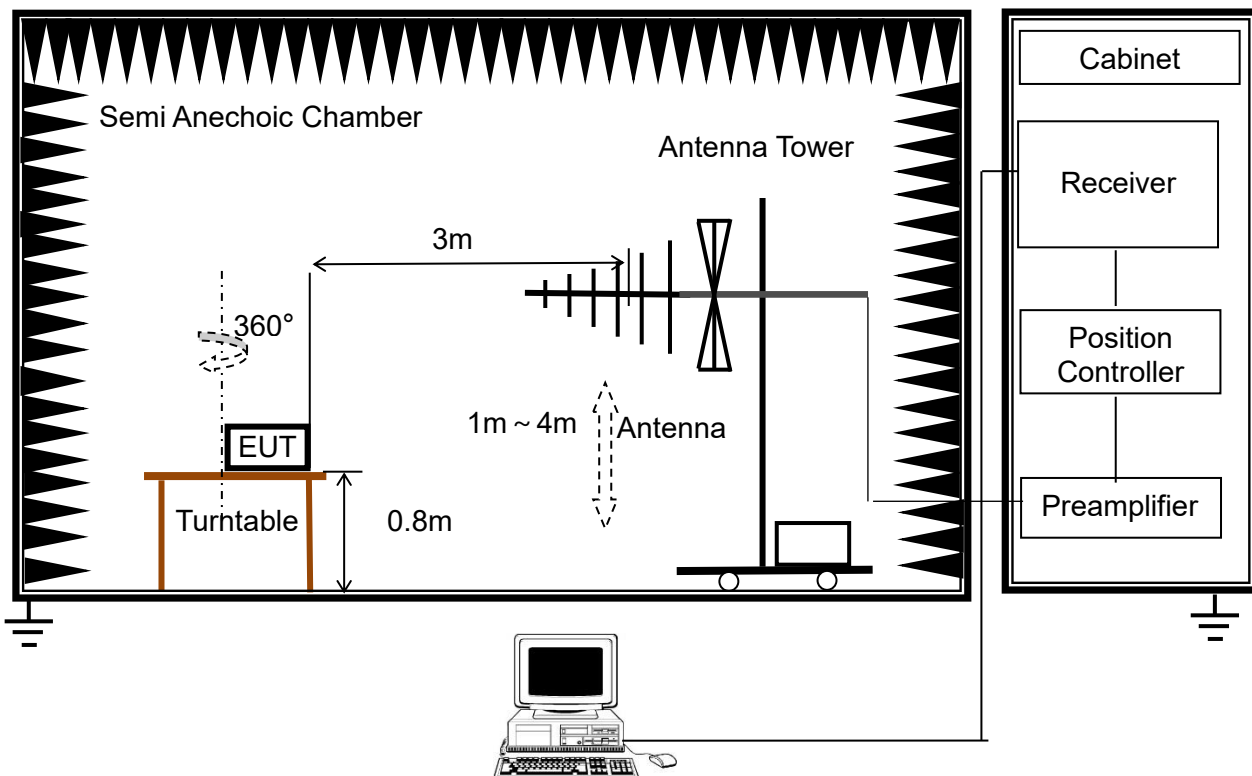
3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

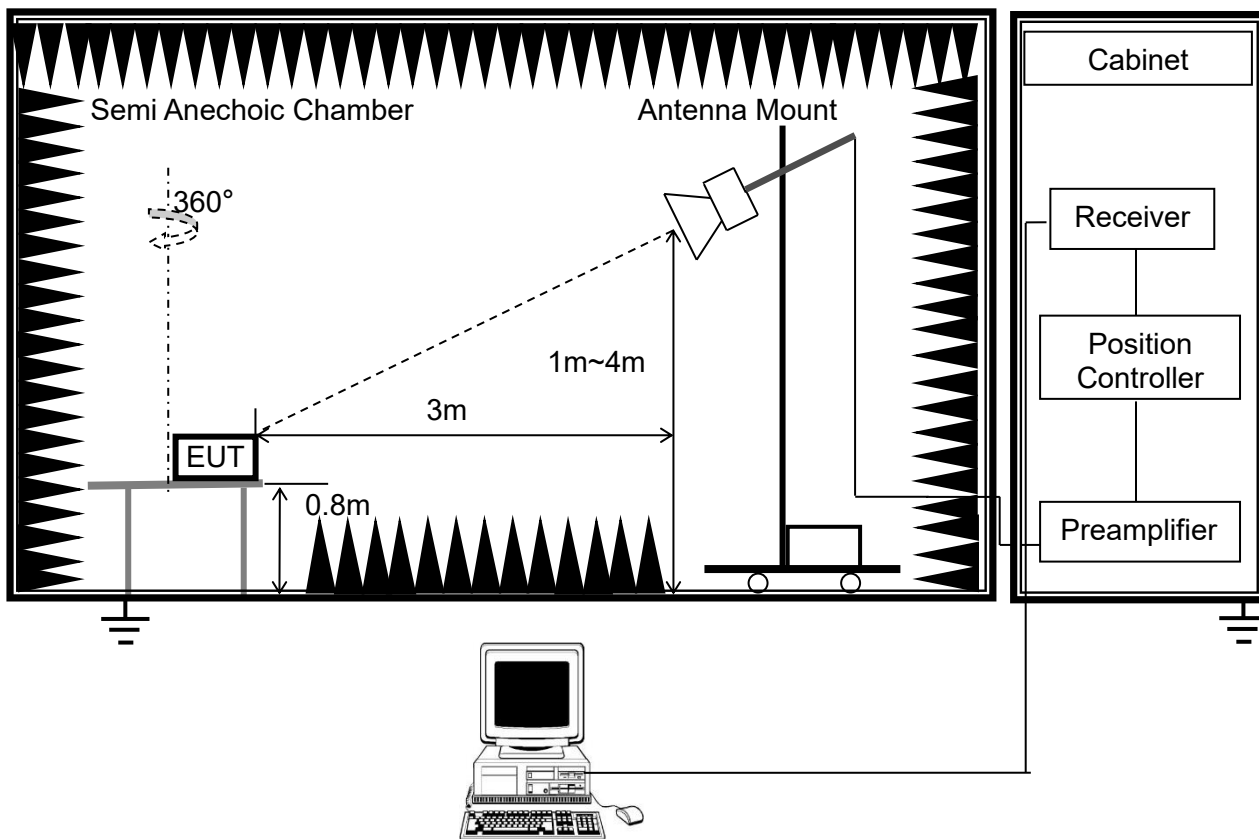


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



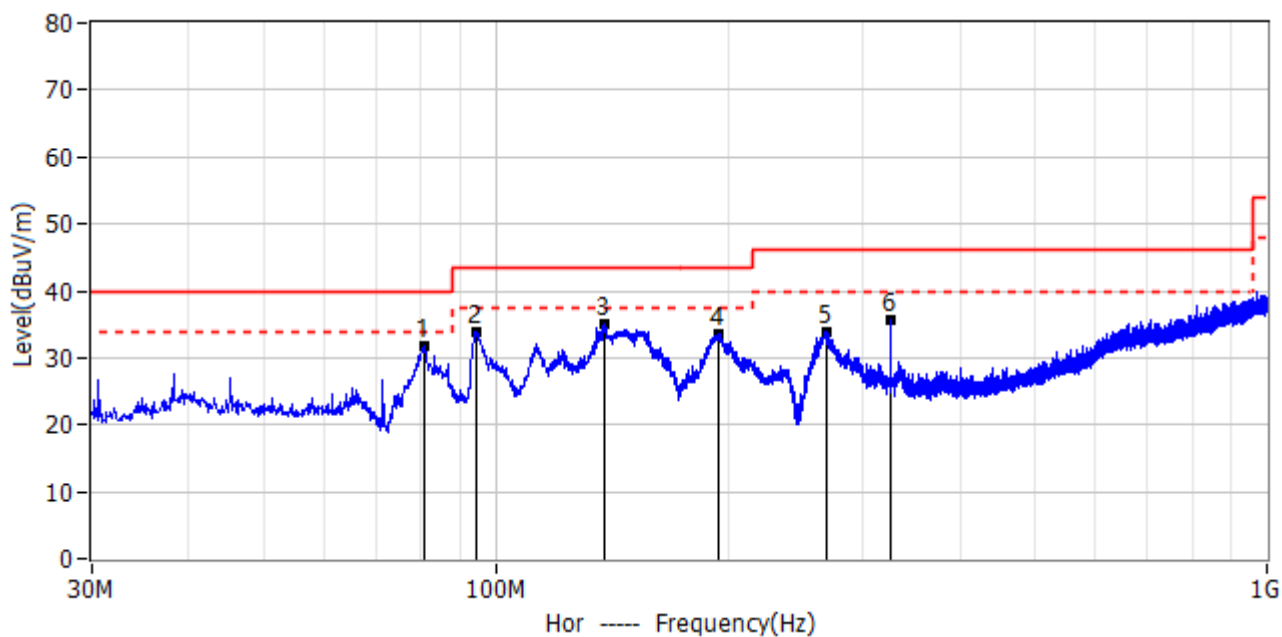
(B) Radiated Emission Test Set-Up Frequency Above 1GHz





3.2.4 TEST RESULTS - BELOW 1GHZ

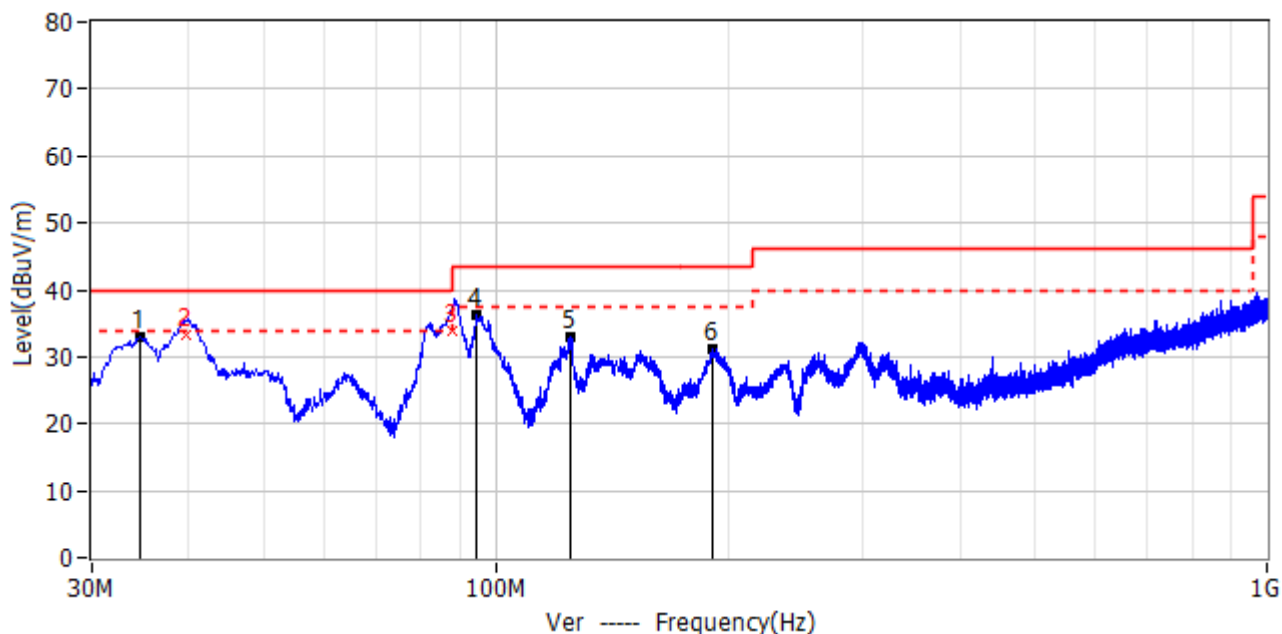
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 22.8°C
M/N: A151	Humidity: 59%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-01-11
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 64G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	80.925MHz	16.60	15.19	31.79	40.00	-8.21	PK	Hor
2*	94.384MHz	18.61	15.31	33.92	43.50	-9.58	PK	Hor
3*	138.761MHz	16.22	18.98	35.20	43.50	-8.30	PK	Hor
4*	194.173MHz	16.10	17.44	33.54	43.50	-9.96	PK	Hor
5*	268.256MHz	14.72	19.10	33.82	46.00	-12.18	PK	Hor
6*	325.850MHz	14.84	20.72	35.56	46.00	-10.44	PK	Hor



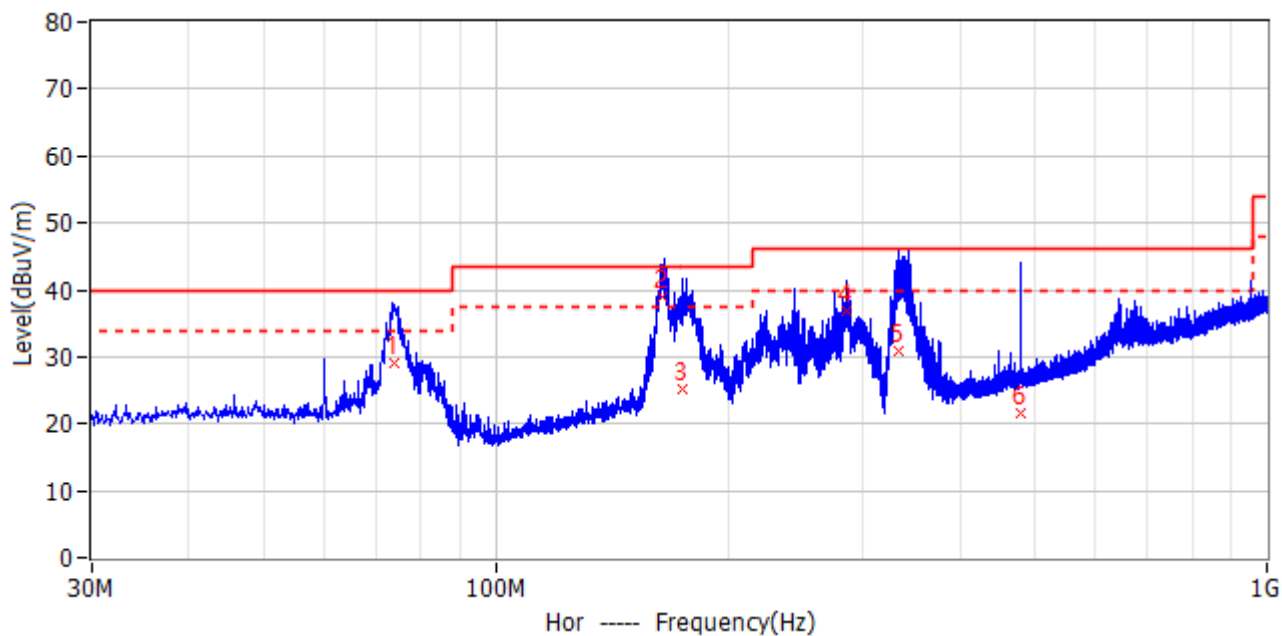
Project: LGT23A013	Test Engineer: Dylan.shi
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Note: 64G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	34.608MHz	14.39	18.51	32.90	40.00	-7.10	PK	Ver
2	39.766MHz	13.96	19.30	33.26	40.00	-6.74	QP	Ver
3	87.970MHz	18.83	15.10	33.93	40.00	-6.07	QP	Ver
4*	94.505MHz	20.98	15.31	36.29	43.50	-7.21	PK	Ver
5*	124.939MHz	14.91	18.06	32.97	43.50	-10.53	PK	Ver
6*	191.384MHz	13.69	17.60	31.29	43.50	-12.21	PK	Ver



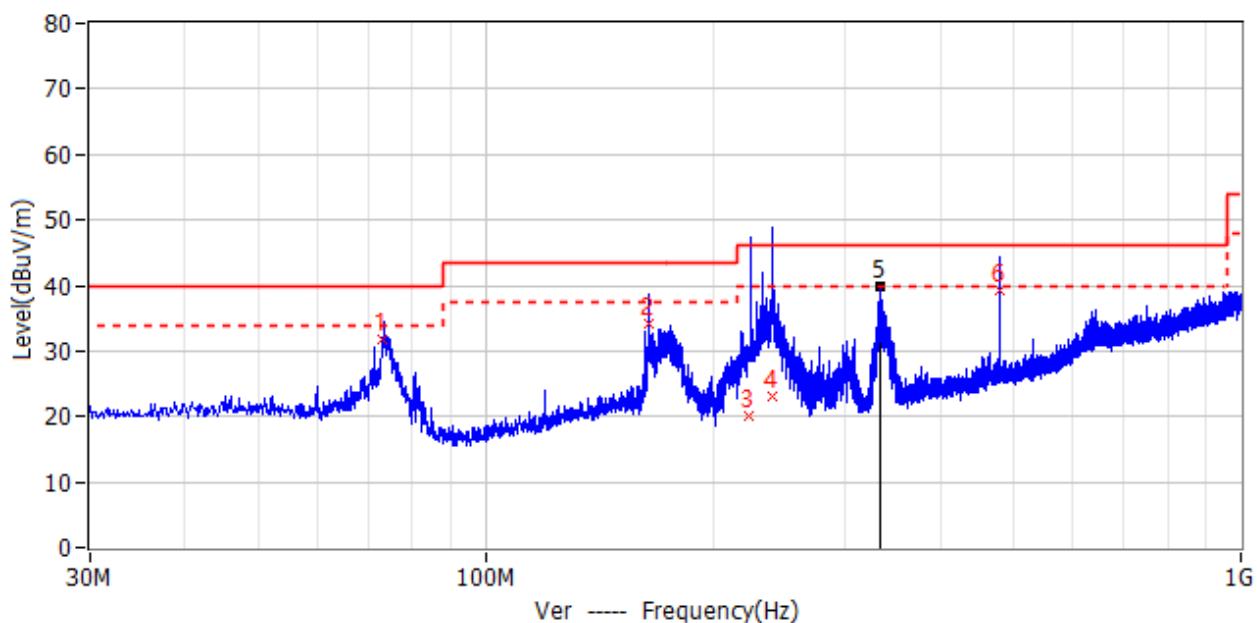
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 22.8°C
M/N: A151	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: USB Data Transmission	
Note: 64G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1	73.785MHz	12.07	17.00	29.07	40.00	-10.93	QP	Hor
2	164.676MHz	19.19	19.80	38.99	43.50	-4.51	QP	Hor
3	175.260MHz	5.88	19.30	25.18	43.50	-18.32	QP	Hor
4	285.861MHz	17.28	19.60	36.88	46.00	-9.12	QP	Hor
5	332.724MHz	10.02	20.90	30.92	46.00	-15.08	QP	Hor
6	479.684MHz	-2.93	24.50	21.57	46.00	-24.43	QP	Hor



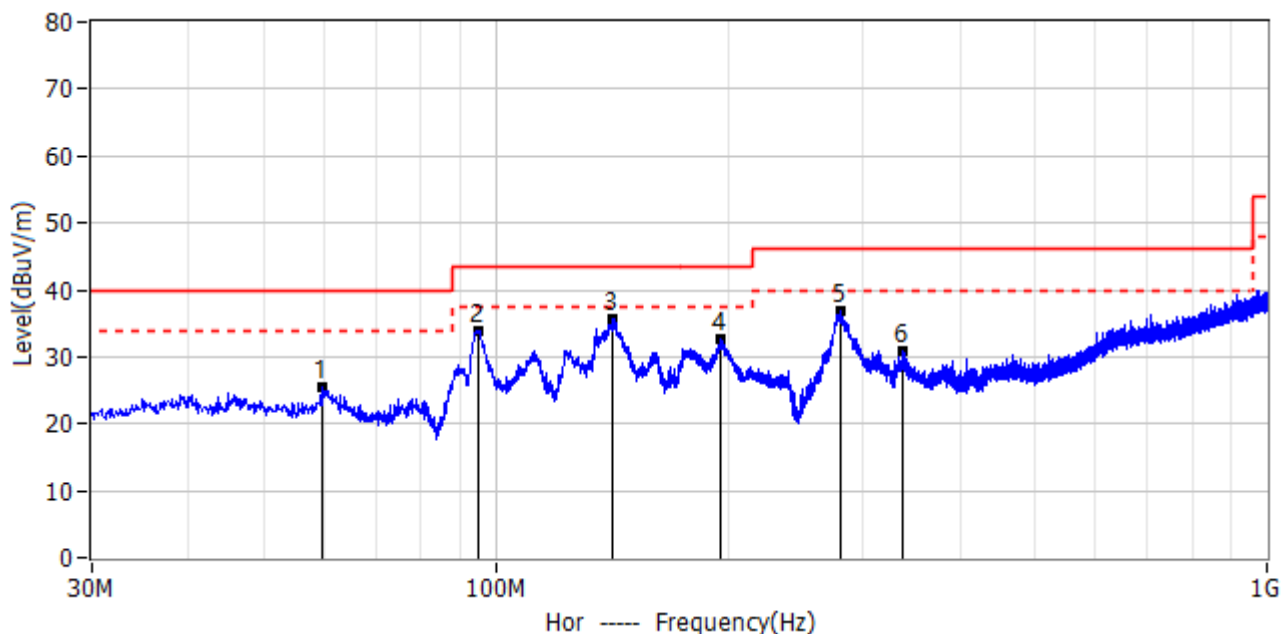
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M/N: A151	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2023-01-11
Test Mode: USB Data Transmission	
Note: 64G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1	73.259MHz	14.56	17.10	31.66	40.00	-8.34	QP	Ver
2	164.694MHz	14.41	19.80	34.21	43.50	-9.29	QP	Ver
3	223.684MHz	3.11	16.90	20.01	46.00	-25.99	QP	Ver
4	240.286MHz	5.39	17.70	23.09	46.00	-22.91	QP	Ver
5*	332.761MHz	19.10	20.85	39.95	46.00	-6.05	PK	Ver
6	480.001MHz	14.68	24.60	39.28	46.00	-6.72	QP	Ver



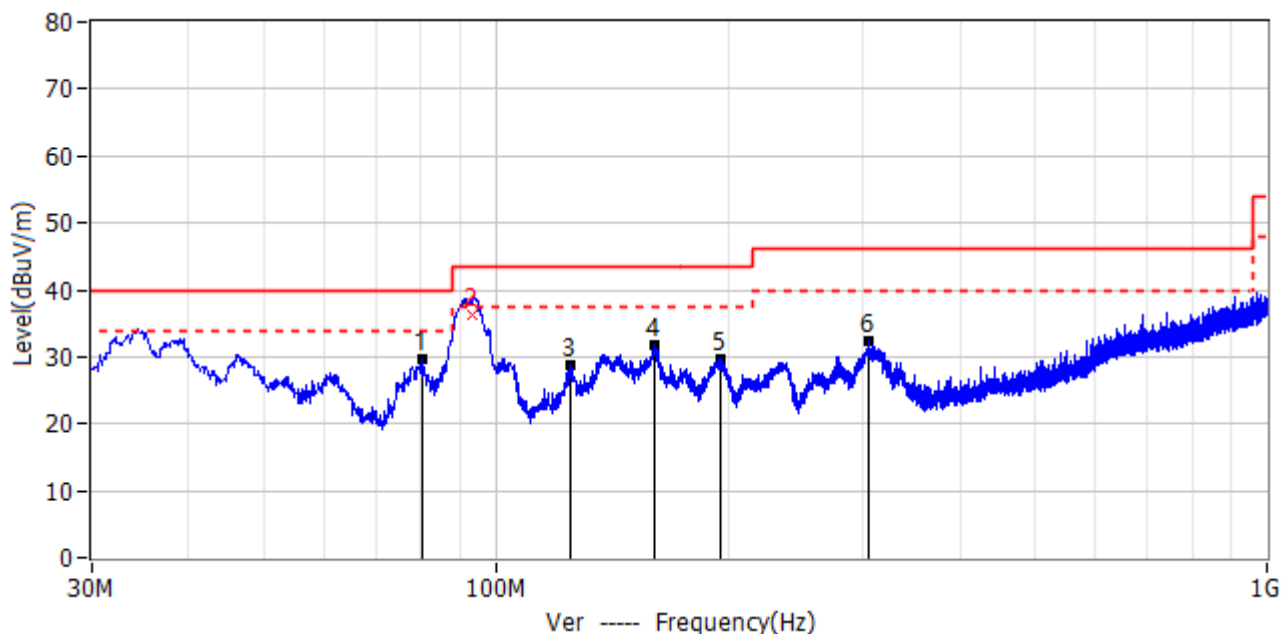
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 22.8°C
M/N: A151	Humidity: 59%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-01-11
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 32G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	59.706MHz	6.81	18.66	25.47	40.00	-14.53	PK	Hor
2*	94.869MHz	18.62	15.33	33.95	43.50	-9.55	PK	Hor
3*	141.793MHz	16.53	19.22	35.75	43.50	-7.75	PK	Hor
4*	196.234MHz	15.47	17.33	32.80	43.50	-10.70	PK	Hor
5*	279.411MHz	17.24	19.51	36.75	46.00	-9.25	PK	Hor
6*	337.126MHz	9.83	20.94	30.77	46.00	-15.23	PK	Hor



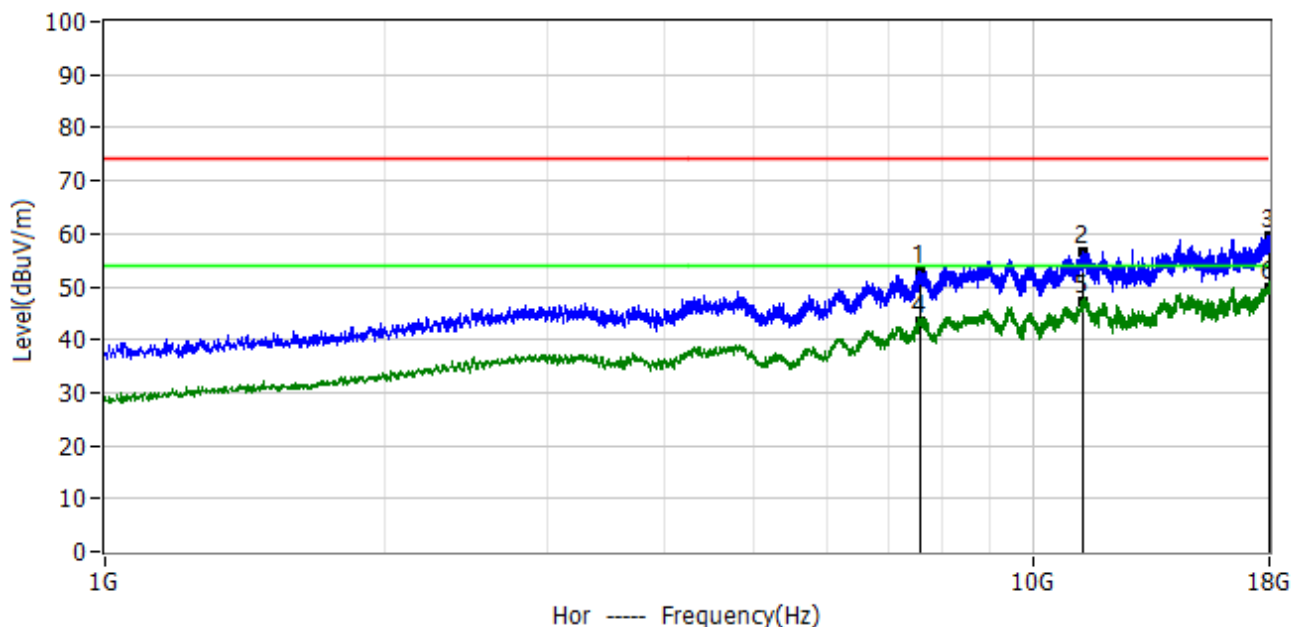
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Note: 32G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	80.440MHz	14.54	15.19	29.73	40.00	-10.27	PK	Ver
2	93.289MHz	21.01	15.20	36.21	43.50	-7.29	QP	Ver
3*	125.303MHz	10.77	18.10	28.87	43.50	-14.63	PK	Ver
4*	160.465MHz	11.85	19.84	31.69	43.50	-11.81	PK	Ver
5*	195.506MHz	12.22	17.37	29.59	43.50	-13.91	PK	Ver
6*	304.753MHz	12.21	20.06	32.27	46.00	-13.73	PK	Ver



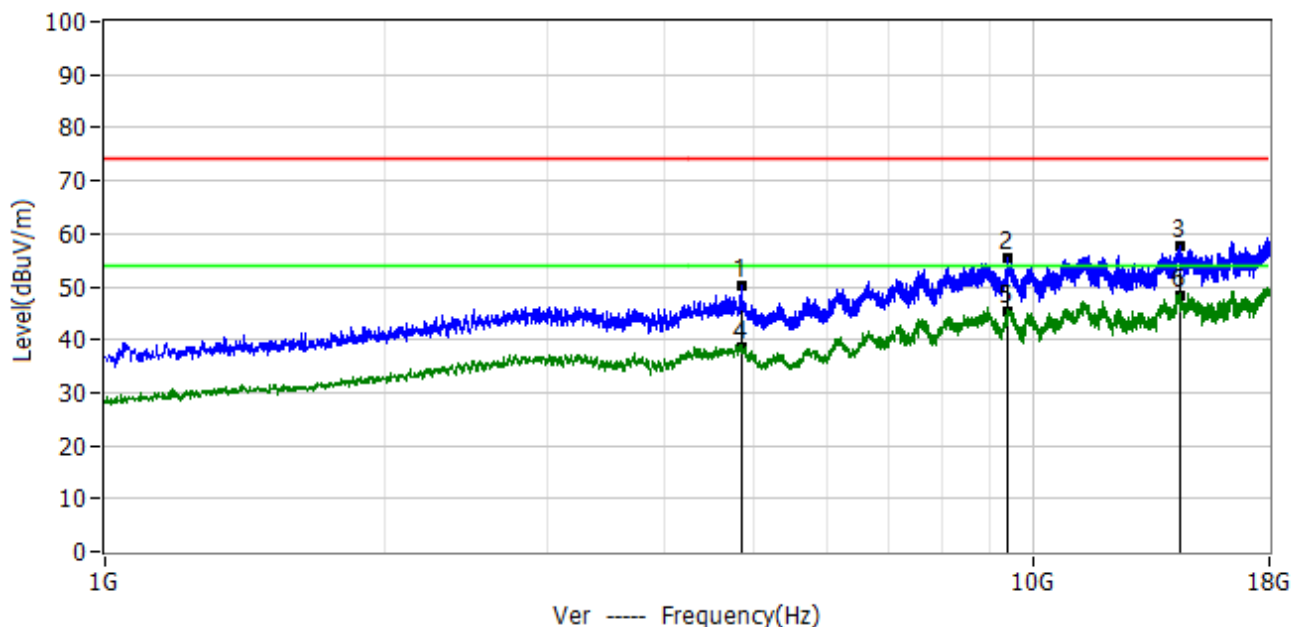
Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 25.2°C
M/N: A151	Humidity: 69%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-01-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 32G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	7.581GHz	57.11	-4.25	52.86	74.00	-21.14	PK	Hor
2*	11.347GHz	54.84	1.83	56.67	74.00	-17.33	PK	Hor
3*	17.958GHz	51.21	8.49	59.70	74.00	-14.30	PK	Hor
4*	7.581GHz	47.65	-4.25	43.40	54.00	-10.60	AV	Hor
5*	11.347GHz	45.37	1.83	47.20	54.00	-6.80	AV	Hor
6*	17.958GHz	41.21	8.49	49.70	54.00	-4.30	AV	Hor



Project: LGT23A013	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 25.2°C
M/N: A151	Humidity: 69%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-01-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS +Camera recording	
Note: 32G	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.846GHz	56.17	-6.02	50.15	74.00	-23.85	PK	Ver
2*	9.419GHz	56.68	-1.17	55.51	74.00	-18.49	PK	Ver
3*	14.405GHz	51.74	5.91	57.65	74.00	-16.35	PK	Ver
4*	4.846GHz	44.72	-6.02	38.70	54.00	-15.30	AV	Ver
5*	9.419GHz	46.47	-1.17	45.30	54.00	-8.70	AV	Ver
6*	14.405GHz	42.39	5.91	48.30	54.00	-5.70	AV	Ver

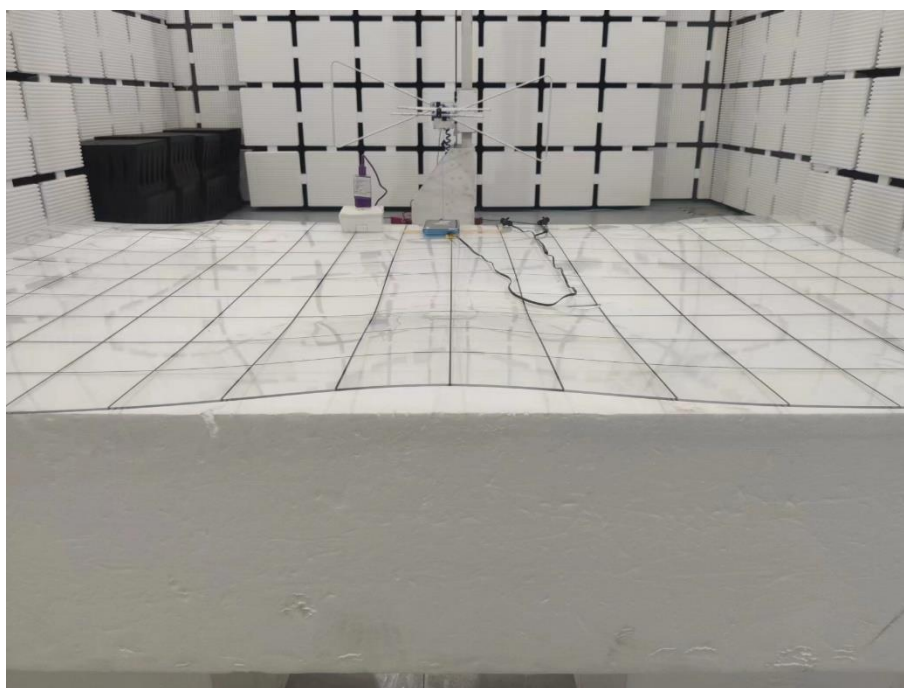


APPENDIX 1 - TEST SETUP

Conducted Emission Test Setup Photo

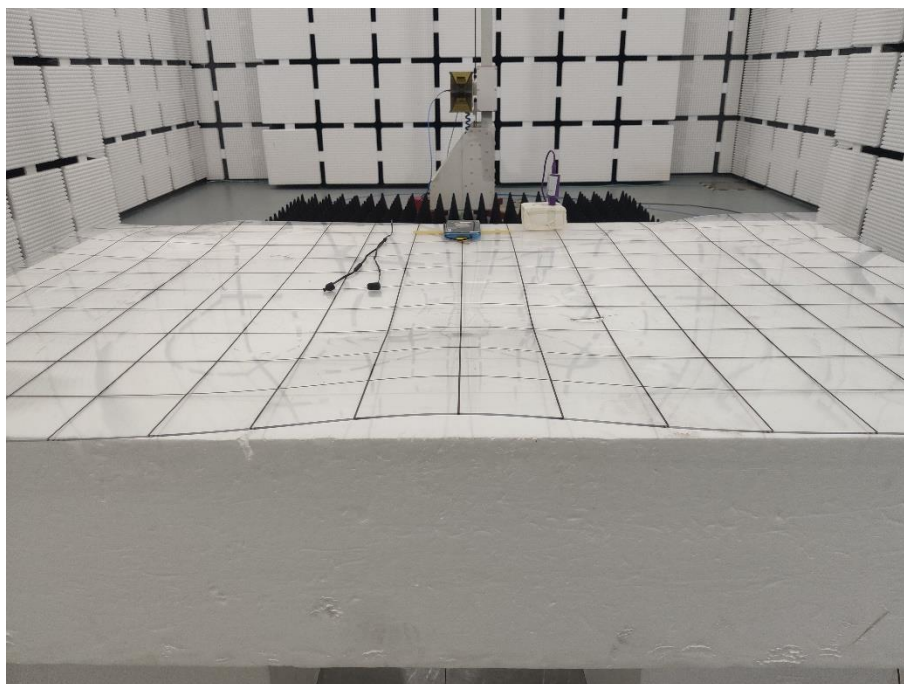


Radiated Emission Test Setup Photo - Below 1GHz





Radiated Emission Test Setup Photo - Above 1GHz



※※※※ END OF THE REPORT ※※※※