

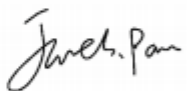
TEST REPORT

Product Name : Mobile Phone
Brand Name : itel
Model : C681L
Series Model : N/A
FCC ID : 2AJMN-C681L
Applicant : **ITEL MOBILE LIMITED**
Address : FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer : **ITEL MOBILE 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
Standard(s) : FCC CFR Title 47 Part 15 Subpart B
Date of Receipt : Oct. 10, 2025
Date of Test : Oct. 11, 2025~ Nov. 03, 2025
Issued Date : Nov. 04, 2025

Issued By: **Guangdong Asia Hongke Test Technology Limited**

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street,
Bao'an District, Shenzhen, Guangdong, China

Tel.: +86 0755-230967639 Fax.: +86 0755-230967639

Reviewed by: 
James.Pan

Approved by: 
Allen.Wang



Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version	Issued Date	Notes
M0	Nov. 04, 2025	Initial Release

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[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 40GHz

1.2 Test Summary

Test Item	Section in 47 CFR	Test Result
AC Power Line Conducted Emission	FCC Part 15 B (Section15.107)	PASS
Electric Field Radiated Emissions	FCC Part 15 B (Section15.109)	PASS
<i>Note:</i> <i>N/A: Not Applicable.</i>		

1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ± 1.20 dB	(1)
Radiated Emission	9KHz~30MHz ± 3.10 dB	(1)
Radiated Emission	30MHz~1GHz ± 3.75 dB	(1)
Radiated Emission	1GHz~18GHz ± 3.88 dB	(1)
Radiated Emission	18GHz-40GHz ± 3.88 dB	(1)

The report uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%

2 GENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name:	Mobile Phone
Model/Type reference:	C681L
Serial Model:	N/A
Power Supply:	DC 3.91V from battery 5100mAh
Adapter Information:	Model: U180ISA Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or 7.5V, 2.4A 18.0W Max
Hardware Version:	/
Software Version:	/
Sample(s) Status:	AiTSZ-251127006-1(Normal sample) AiTSZ-251127006-2(Engineer sample)

2.3 Description of Test Modes

The device, according to the function of the EUT, select the following operating modes for testing.

Test Modes:	
PC mode	Keep the EUT in Downloading mode
Charging+Recording mode	Keep the EUT in Charging+Recording mode (Worst case of Radiated Emission)
Charging+Playing mode	Keep the EUT in Charging+Playing mode (Worst case of Conducted Emission)
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

Note:

1. Pre-testing on all test modes, only the worst case mode was recorded in this report.
2. After the pre-testing, the following test modes were found to be the worst mode for the corresponding test items and recorded in the report

Test item	Test mode (Worse case operation mode)
EMI-RE	Test mode 2
EMI-CE	Test mode 3

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Serial No.	Provided by	Other
/	/	/	/	/	/

2.5 Equipment List for the Test

☒ Radiation Emission Test Equipment (AiT 966 chamber)						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	EMI Measuring Receiver	R&S	ESR	101160	2025.09.23	2026.09.22
2	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2025.09.23	2026.09.22
3	Low Noise Pre Amplifier	CESHENG	CSKJLNA2310 16A	CSKJLNA 231016A	2025.09.23	2026.09.22
4	Spectrum Analyzer	R&S	FSV40	101470	2025.09.23	2026.09.22
5	Passive Loop	ETS	6512	00165355	2024.08.29	2026.08.28
6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2026.08.28
7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2026.08.28
8	6dB Attenuator	JFW	50FPE-006	4360846- 949-1	2025.09.23	2026.09.22
9	Filter	MICRO-TRONICS	BRM50702-02	16	2025.09.23	2026.09.22
10	Filter	MICRO-TRONICS	BRC50703-02	17	2025.09.23	2026.09.22
11	Filter	MICRO-TRONICS	BRC50705-02	18	2025.09.23	2026.09.22
12	RE Software	EZ	EZ-EMC_RE	Ver.AIT- 03A	N/A	N/A

3 TEST CONDITIONS AND RESULTS

3.1 Conducted Emission

LIMIT

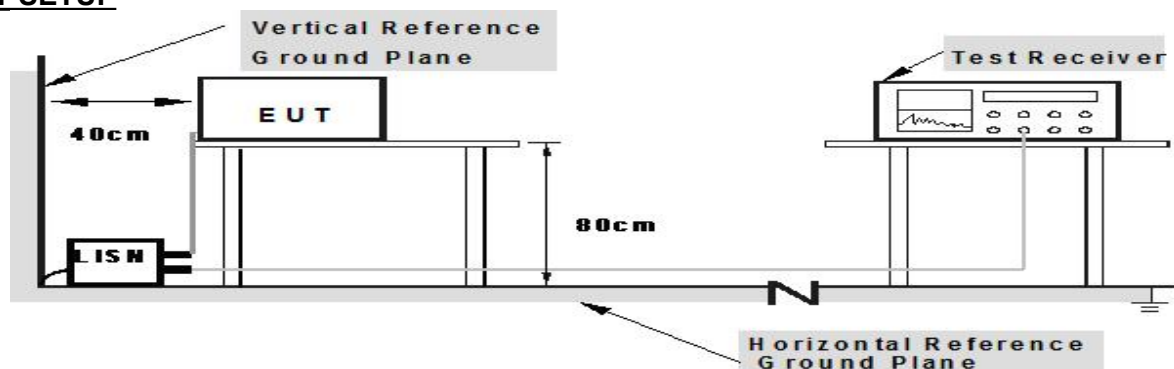
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

FREQUENCY (MHz)	☐ Class A (dBuV)		☒ Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

TEST PROCEDURE

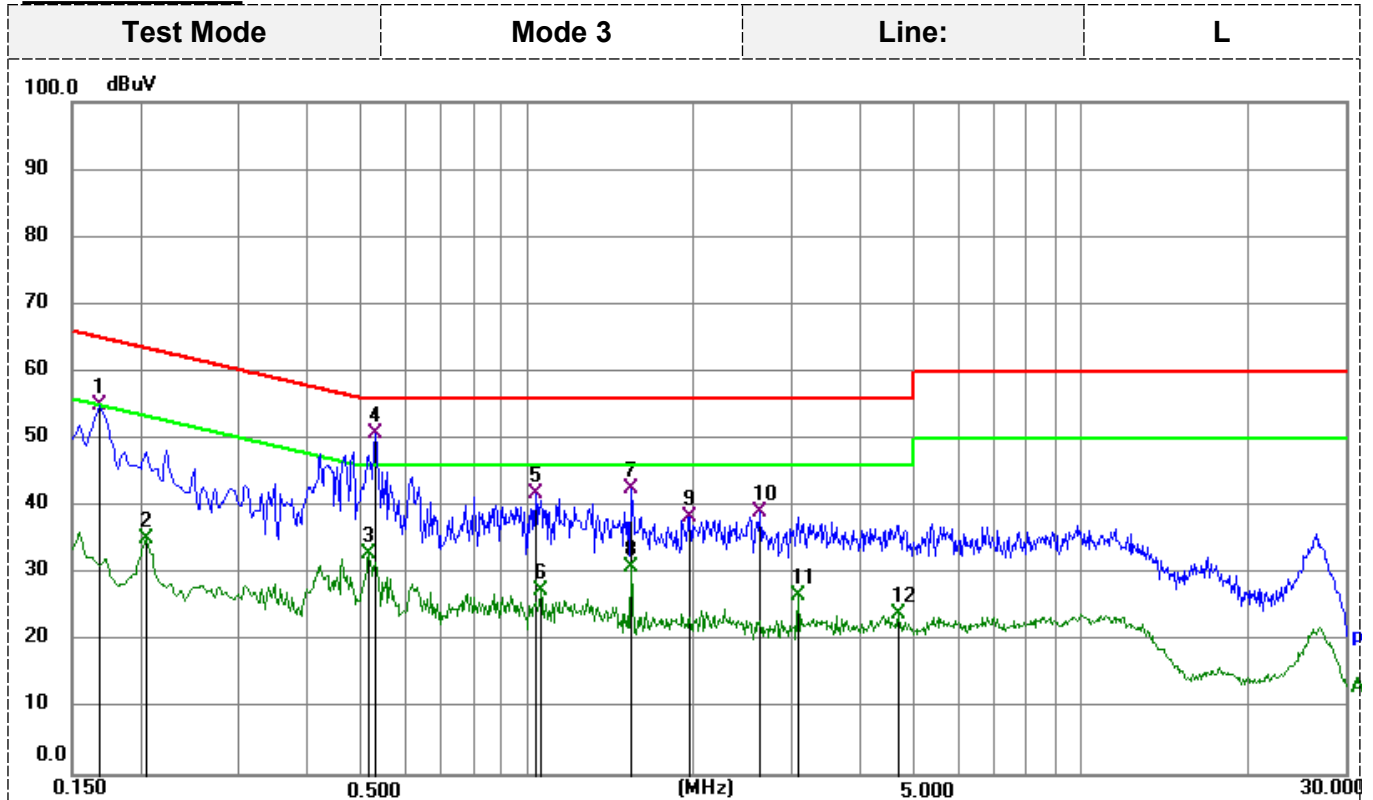
- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2014.
- Support equipment, if needed, was placed as per ANSI C63.4-2014.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2014.
- The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- All support equipments received AC power from a second LISN, if any.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.

TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

TEST RESULTS

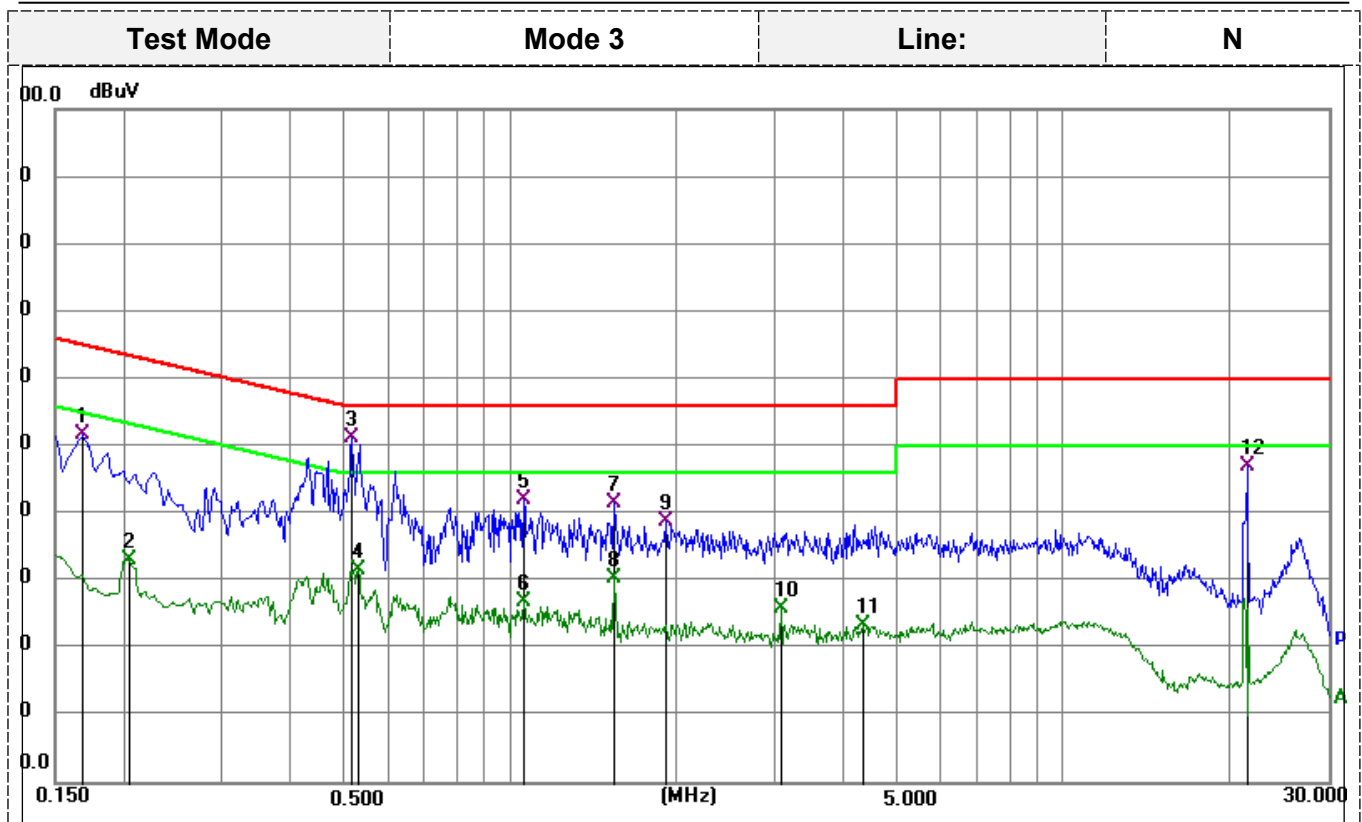


Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	44.66	10.29	54.95	65.06	-10.11	QP
2	0.2040	24.87	10.26	35.13	53.45	-18.32	AVG
3	0.5144	22.50	10.26	32.76	46.00	-13.24	AVG
4	0.5280	40.58	10.26	50.84	56.00	-5.16	QP
5	1.0320	31.60	10.27	41.87	56.00	-14.13	QP
6	1.0590	17.14	10.27	27.41	46.00	-18.59	AVG
7	1.5404	32.34	10.25	42.59	56.00	-13.41	QP
8	1.5404	20.71	10.25	30.96	46.00	-15.04	AVG
9	1.9680	28.22	10.24	38.46	56.00	-17.54	QP
10	2.6295	28.76	10.22	38.98	56.00	-17.02	QP
11	3.0794	16.58	10.20	26.78	46.00	-19.22	AVG
12	4.6770	13.79	10.14	23.93	46.00	-22.07	AVG



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level + Correct Factor;

Margin = Measurement Result - Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	41.53	10.19	51.72	65.06	-13.34	QP
2	0.2040	23.04	10.18	33.22	53.45	-20.23	AVG
3	0.5144	41.11	10.20	51.31	56.00	-4.69	QP
4	0.5280	21.52	10.20	31.72	46.00	-14.28	AVG
5	1.0545	31.88	10.20	42.08	56.00	-13.92	QP
6	1.0545	16.60	10.20	26.80	46.00	-19.20	AVG
7	1.5405	31.49	10.19	41.68	56.00	-14.32	QP
8	1.5405	20.30	10.19	30.49	46.00	-15.51	AVG
9	1.9140	28.55	10.18	38.73	56.00	-17.27	QP
10	3.0795	15.83	10.13	25.96	46.00	-20.04	AVG
11	4.3395	13.47	10.08	23.55	46.00	-22.45	AVG
12	21.4215	35.63	11.29	46.92	60.00	-13.08	QP

3.2 Radiated Emission

LIMITS

LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	☐ Class A (at 10m)	☒ Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (at 3m) dBuV/m		Class B (at 3m) dBuV/m	
	Peak	Avg	Peak	Avg
Above 1000	80	60	74	54

Notes:

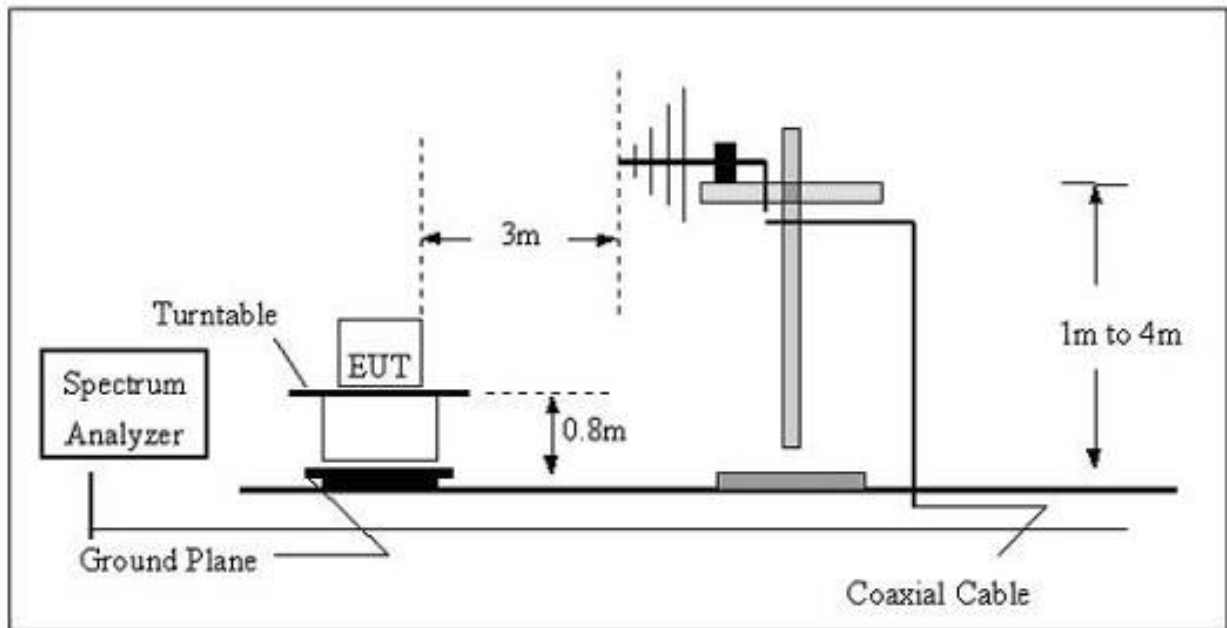
- 1) The limit for radiated test was performed according to as following:
CISPR 22/ FCC PART 15B /ICES-003.
- 2) The tighter limit applies at the band edges.
- 3) Emission level (dBuV/m)=20log Emission level (uV/m).

TEST PROCEDURE

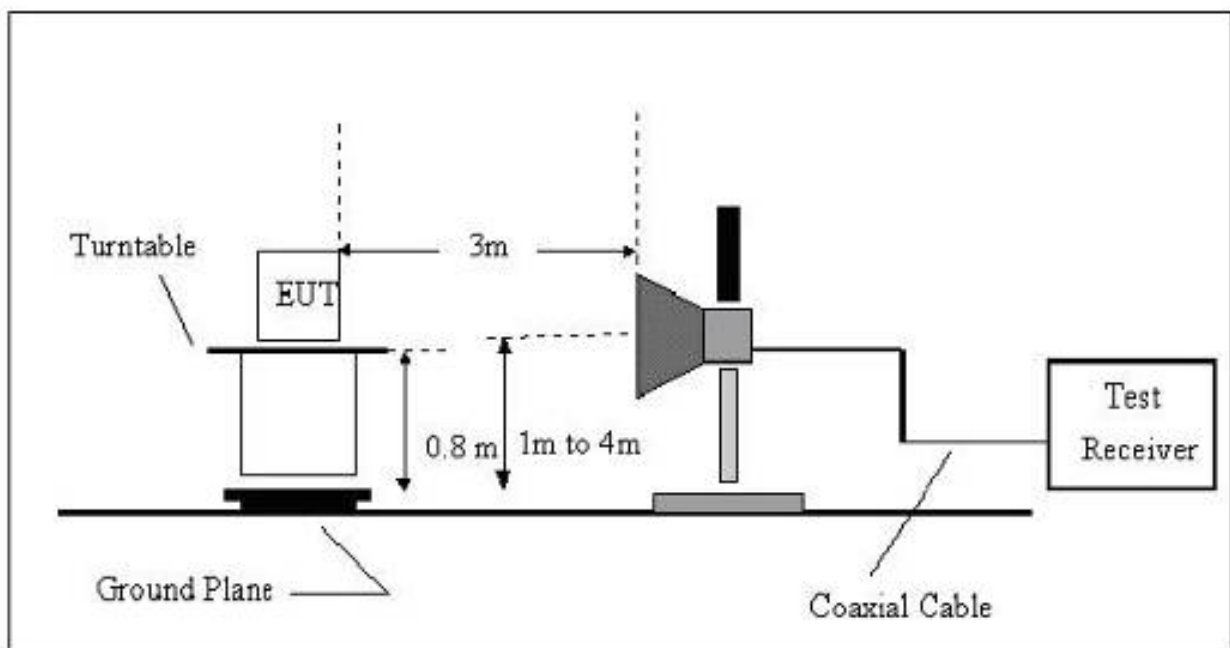
- a) The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP (AV) Limits and then no additional QP Mode measurement performed.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

TEST SETUP

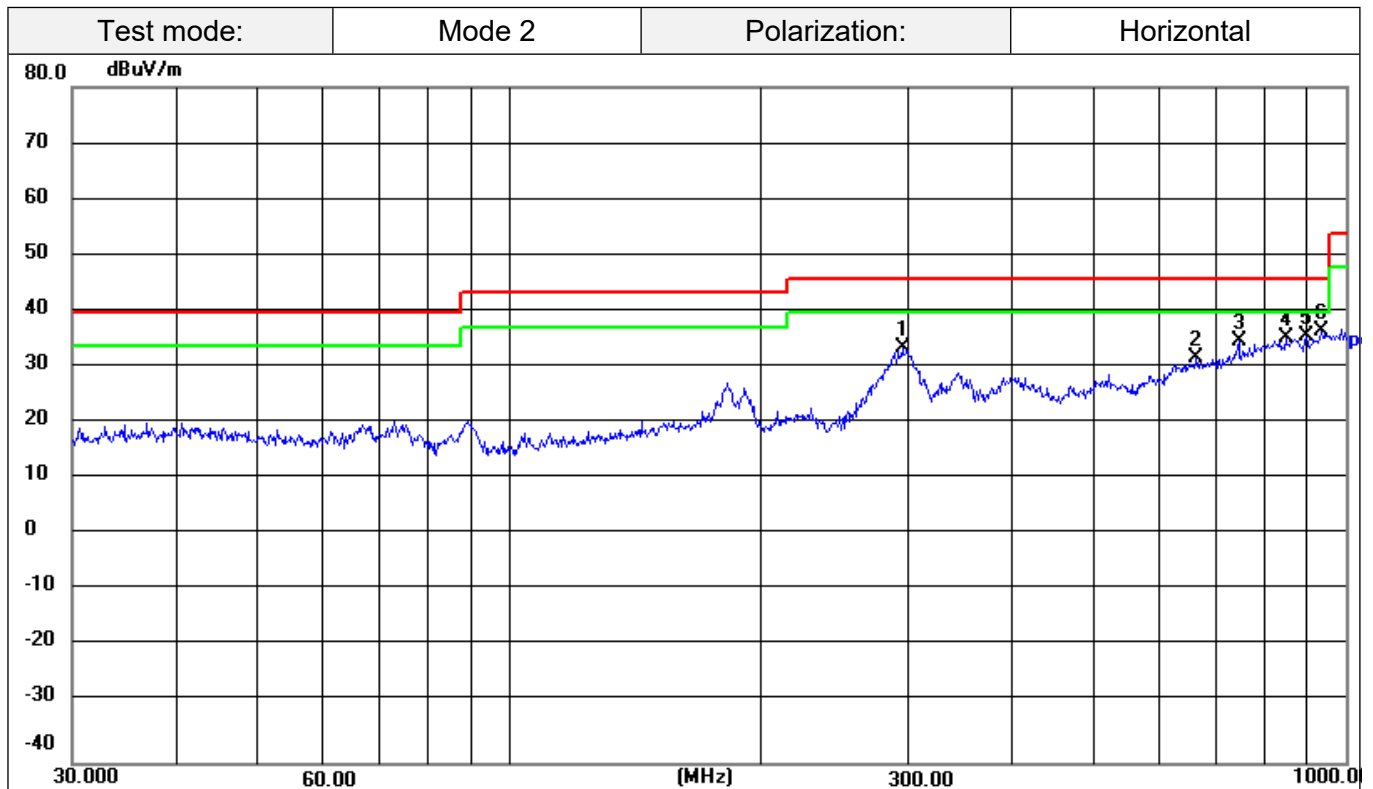
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



For 30MHz-1GHz



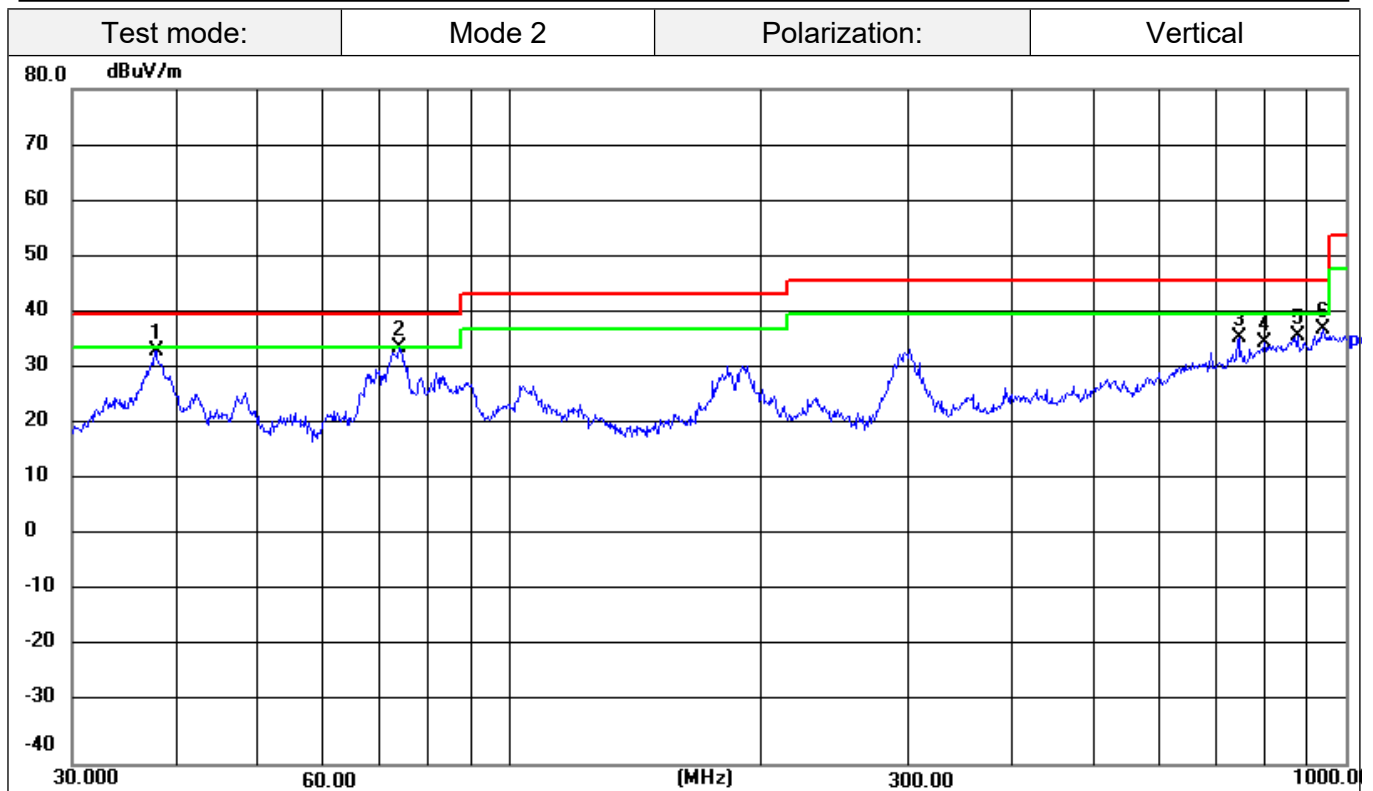
Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	295.1468	41.83	-7.99	33.84	46.00	-12.16	peak
2	663.4728	31.00	0.95	31.95	46.00	-14.05	peak
3	744.8660	32.36	2.58	34.94	46.00	-11.06	peak
4	848.0563	30.65	4.89	35.54	46.00	-10.46	peak
5	896.9965	31.07	4.70	35.77	46.00	-10.23	peak
6 *	935.5463	31.25	5.53	36.78	46.00	-9.22	peak



Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	37.8121	42.80	-9.43	33.37	40.00	-6.63	peak	100	360
2 *	73.8756	46.02	-12.02	34.00	40.00	-6.00	peak	100	360
3	744.8661	33.41	2.58	35.99	46.00	-10.01	peak	100	360
4	798.9797	31.33	3.69	35.02	46.00	-10.98	peak	100	360
5	875.2470	31.18	5.02	36.20	46.00	-9.80	peak	100	360
6	938.8326	31.66	5.62	37.28	46.00	-8.72	peak	100	360

Test mode:
Mode 2
Polarization:
Horizontal

FCC PART 15 B

FCC PART 15 B-PK Limit

FCC PART 15 B-AV Limit

Level[dBμV/m]

Frequency[Hz]

— PK Limit — AV Limit — Horizontal PK — Horizontal AV

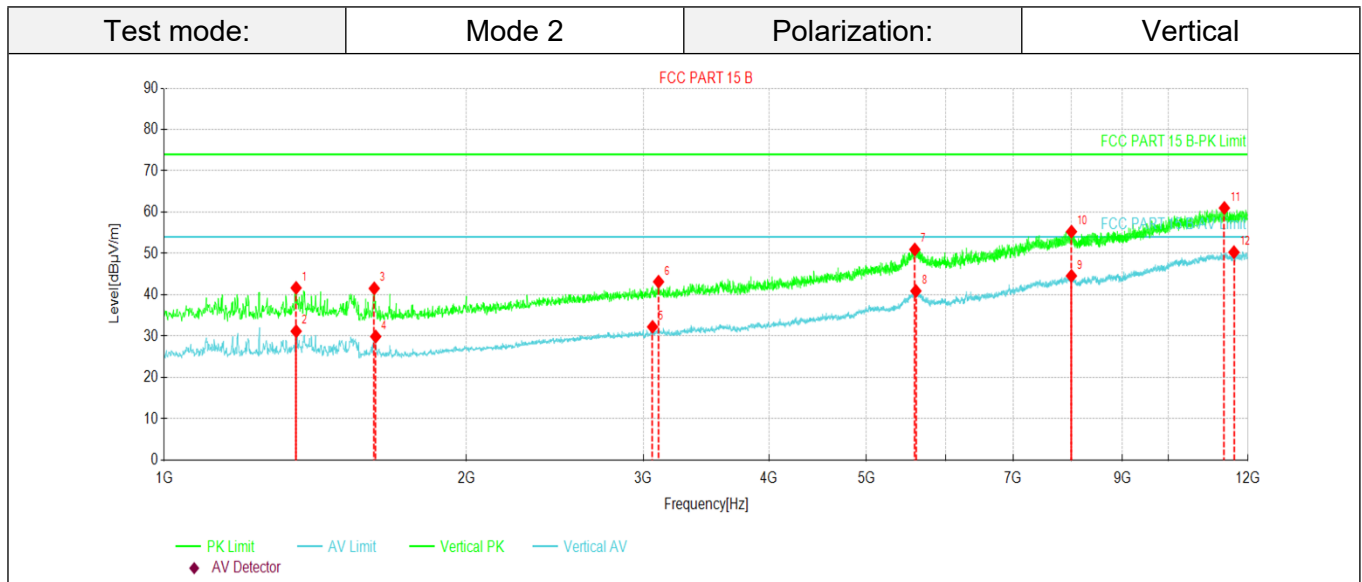
◆ AV Detector

Remark:

1. Emission Level = Reading + Factor;
 Factor = Antenna Factor + Cable Loss – Pre-amplifier;
 Margin= Emission Level - Limit.

2. Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Suspected Data List								
NO.	Freq. [MHz]	Reading[dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1536.2500	63.75	-22.35	41.40	74.00	32.60	PK	Horizontal
2	1537.6250	52.39	-22.35	30.04	54.00	23.96	AV	Horizontal
3	2754.5000	58.59	-17.68	40.91	74.00	33.09	PK	Horizontal
4	2765.5000	48.43	-17.65	30.78	54.00	23.22	AV	Horizontal
5	4037.3750	58.67	-13.46	45.21	74.00	28.79	PK	Horizontal
6	4103.3750	46.89	-13.13	33.76	54.00	20.24	AV	Horizontal
7	5599.3750	56.07	-4.58	51.49	74.00	22.51	PK	Horizontal
8	5603.5000	45.76	-4.60	41.16	54.00	12.84	AV	Horizontal
9	7979.5000	55.26	-0.16	55.10	74.00	18.90	PK	Horizontal
10	8012.5000	44.55	-0.14	44.41	54.00	9.59	AV	Horizontal
11	11392.2500	55.04	6.07	61.11	74.00	12.89	PK	Horizontal
12	11417.0000	44.46	6.04	50.50	54.00	3.50	AV	Horizontal



Remark:

3. Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

2. Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Suspected Data List								
NO.	Freq. [MHz]	Reading[dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1353.3750	63.88	-22.21	41.67	74.00	32.33	PK	Vertical
2	1353.3750	53.39	-22.21	31.18	54.00	22.82	AV	Vertical
3	1618.7500	63.98	-22.43	41.55	74.00	32.45	PK	Vertical
4	1624.2500	52.32	-22.41	29.91	54.00	24.09	AV	Vertical
5	3063.8750	48.98	-16.74	32.24	54.00	21.76	AV	Vertical
6	3106.5000	59.79	-16.62	43.17	74.00	30.83	PK	Vertical
7	5589.7500	55.71	-4.75	50.96	74.00	23.04	PK	Vertical
8	5603.5000	45.53	-4.60	40.93	54.00	13.07	AV	Vertical
9	8004.2500	44.71	-0.13	44.58	54.00	9.42	AV	Vertical
10	8005.6250	55.41	-0.13	55.28	74.00	18.72	PK	Vertical
11	11366.1250	55.01	5.99	61.00	74.00	13.00	PK	Vertical
12	11617.7500	44.88	5.43	50.31	54.00	3.69	AV	Vertical

***** End of Report *****