

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 C Section 15.247
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**

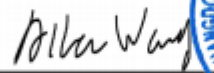
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Reviewed by:


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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.

Guangdong Asia Hongke Test Technology Limited

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Report Revise Record

Report Version	Issued Date	Notes
M0	Nov. 24, 2025	Initial Release

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10: 2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules

1.2 Test Summary

Test Item	Section in 47 CFR	Result
Antenna requirement	§15.203	Pass
On Time and Duty Cycle	/	/
AC Power Line Conducted Emission	§ 15.207(a)	Pass
Maximum Conducted Peak Output Power	§15.247 (b)(3)	Pass
-6dB Bandwidth	§15.247 (a)(2)	Pass
Power Spectral Density	§15.247 (e)	Pass
Transmitter Radiated Spurious Emission	§15.205/15.209	Pass
Restricted Bands	§15.205/15.209	Pass
Conducted Unwanted emissions and Bandedge	§15.205, §15.247(d)	Pass

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)
RF power, conducted	30MHz~6GHz ± 0.16 dB	(1)
RF power density, conducted	± 0.24 dB	(1)
Spurious emissions, conducted	± 0.21 dB	(1)
Temperature	$\pm 1^{\circ}\text{C}$	(1)
Humidity	$\pm 3\%$	(1)
DC and low frequency voltages	$\pm 1.5\%$	(1)
Time	$\pm 2\%$	(1)
Duty cycle	$\pm 2\%$	(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-251127006-3(Engineer sample)

2.4G WIFI:

Supported type:	802.11b/802.11g /802.11n(HT20)
Modulation:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11
Channel separation:	5MHz
Antenna type:	Internal antenna
Antenna gain:	-1.68 dBi (declare by applicant)

Remark:

The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.3 Description of Test Modes and Test Frequency

There are 11 channels provided to the EUT for 20MHz protocol. Channel 01/06/11 were selected for 20MHz protocol mode test.

.Operation Frequency List:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

Note: The line display in grey were the channel selected for testing

Exploratory testing was performed under each mode combination test channel; only the final measurement of the worst combination was made and recorded in this report.

Test case	Exploratory measurement			Final measurement Recorded In Report		
	Mode	Date rate	Channel	Mode	Date rate	Channel
Maximum output power	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b 802.11g 802.11n(HT20)	1Mbps 6Mbps MCS0	☒ Lowest ☒ Middle ☒ Highest
Power spectral density	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b 802.11g 802.11n(HT20)	1Mbps 6Mbps MCS0	☒ Lowest ☒ Middle ☒ Highest
-6dB bandwidth	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b 802.11g 802.11n(HT20)	1Mbps 6Mbps MCS0	☒ Lowest ☒ Middle ☒ Highest
Conducted Spurious Emissions	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	1~11Mbps 6~54Mbps MCS0~MCS7	1Mbps 6Mbps MCS0	☒ Lowest ☒ Middle ☒ Highest
Conducted Band edge	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Highest	1~11Mbps 6~54Mbps MCS0~MCS7	1Mbps 6Mbps MCS0	☒ Lowest ☒ Highest
Radiated Band edge	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Highest	802.11b 802.11g 802.11n(HT20)	1Mbps 6Mbps MCS0	☒ Lowest ☒ Highest
Radiated Emissions Above 1GHz	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b	1Mbps	☒ Lowest ☒ Middle ☒ Highest
Radiated Emissions Below 1GHz	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b	1Mbps	☒ Middle
Conducted Emissions 9KHz-30 MHz	802.11b 802.11g 802.11n(HT20)	1~11Mbps 6~54Mbps MCS0~MCS7	☒ Lowest ☒ Middle ☒ Highest	802.11b	1Mbps	☒ Middle

Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	Engineering Mode
-----------------------	------------------

Frequency	2412MHz	2437MHz	2462MHz
802.11b	Default	Default	Default
802.11g	Default	Default	Default
802.11n(HT20)	Default	Default	Default

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

Conducted Emission measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
☒ 1	EMI Test Receiver	R&S	ESPI	100771	2025.09.23	2026.09.22
☒ 2	LISN	R&S	NNLK 8129	8130179	2025.09.23	2026.09.22
☒ 3	ISN	TESEQ	T800	29429	2025.09.23	2026.09.22
☒ 4	Pulse Limiter	R&S	ESH3-Z2	102789	2025.09.23	2026.09.22
☒ 5	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A

Radiation Emission measurement						
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	CSKJLNA231 016A	CSKJLNA23 1016A	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	2027.08.28
☒ 7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
☒ 8	Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA91703 67	2024.08.28	2027.08.27
☒ 9	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2025.09.23	2026.09.22
☒ 11	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A

RF Conducted measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
☒ 1	Spectrum Analyzer	Agilent	N9020A	MY53421570	2025.09.23	2026.09.22
☒ 2	Power Sensor	Agilent	8481A	MY41097697	2025.09.23	2026.09.22
☐ 3	Vector Signal Generator	Agilent	N5182A	MY50143009	2025.09.23	2026.09.22
☐ 4	Analog signal generator	Agilent	E8257	MY51554256	2025.09.23	2026.09.22
☐ 5	Const Temp. & Humidity Chamber	Eastlab	YH-HW-408L	23051109	2025.09.23	2026.09.22

☐ 6	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2025.09.23	2026.09.22
☒ 7	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	2025.09.23	2026.09.22
☐ 8	RF Test box	TST	TSTPASS	21033016	2025.09.23	2026.09.22
☒ 9	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A
☐ 10	RF Software	Cesheng	WCN Regulary	Ver 25.03.2901	N/A	N/A

Note: ☐ is not applicable in this Test Report. ☒ is applicable in this Test Report.

3 TEST CONDITIONS AND RESULTS

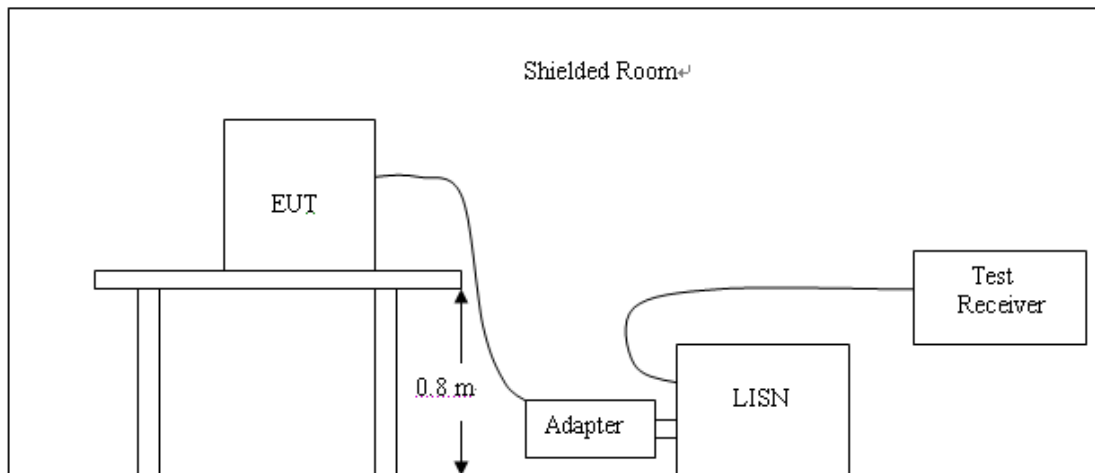
3.1 Conducted Emissions Test

LIMIT

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

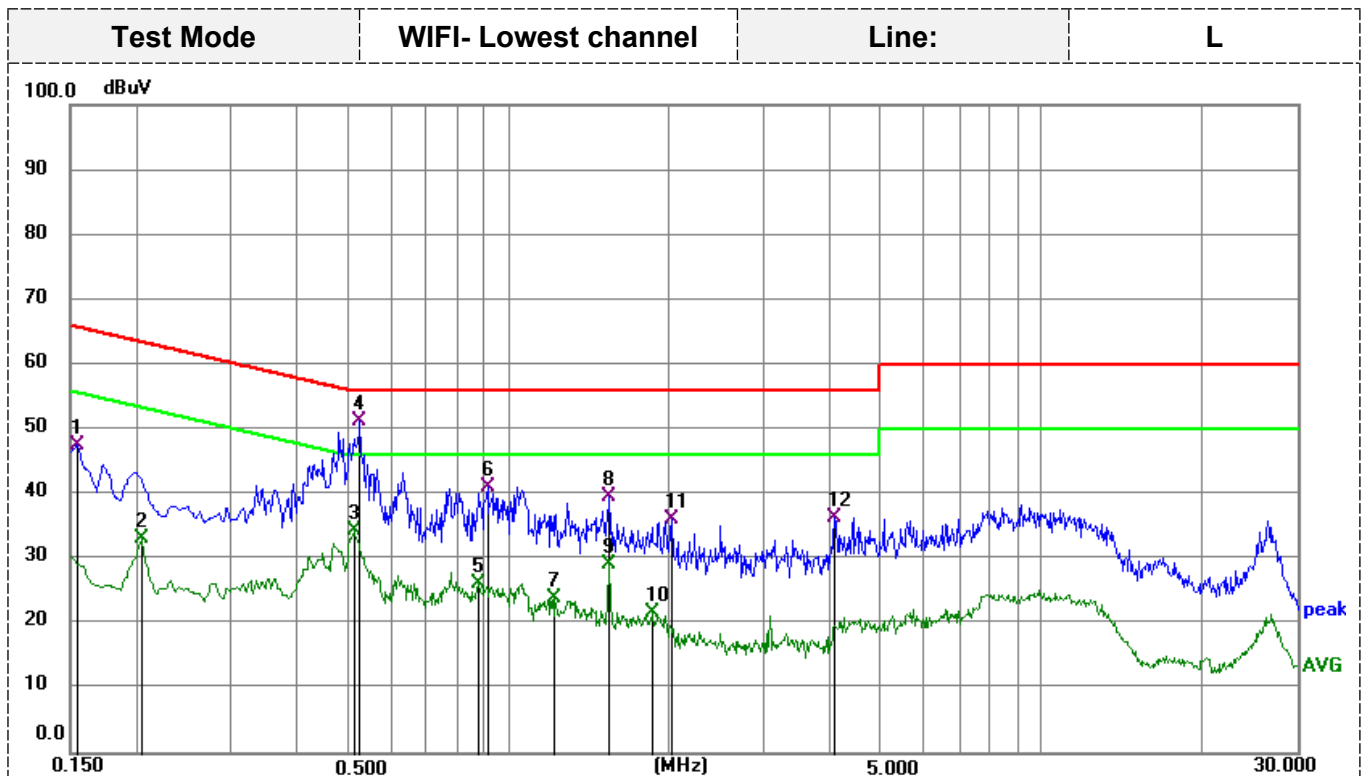


TEST PROCEDURE

1. 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 C63.10:2020.
2. Support equipment, if needed, was placed as per ANSI C63.10:2020.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. 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.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

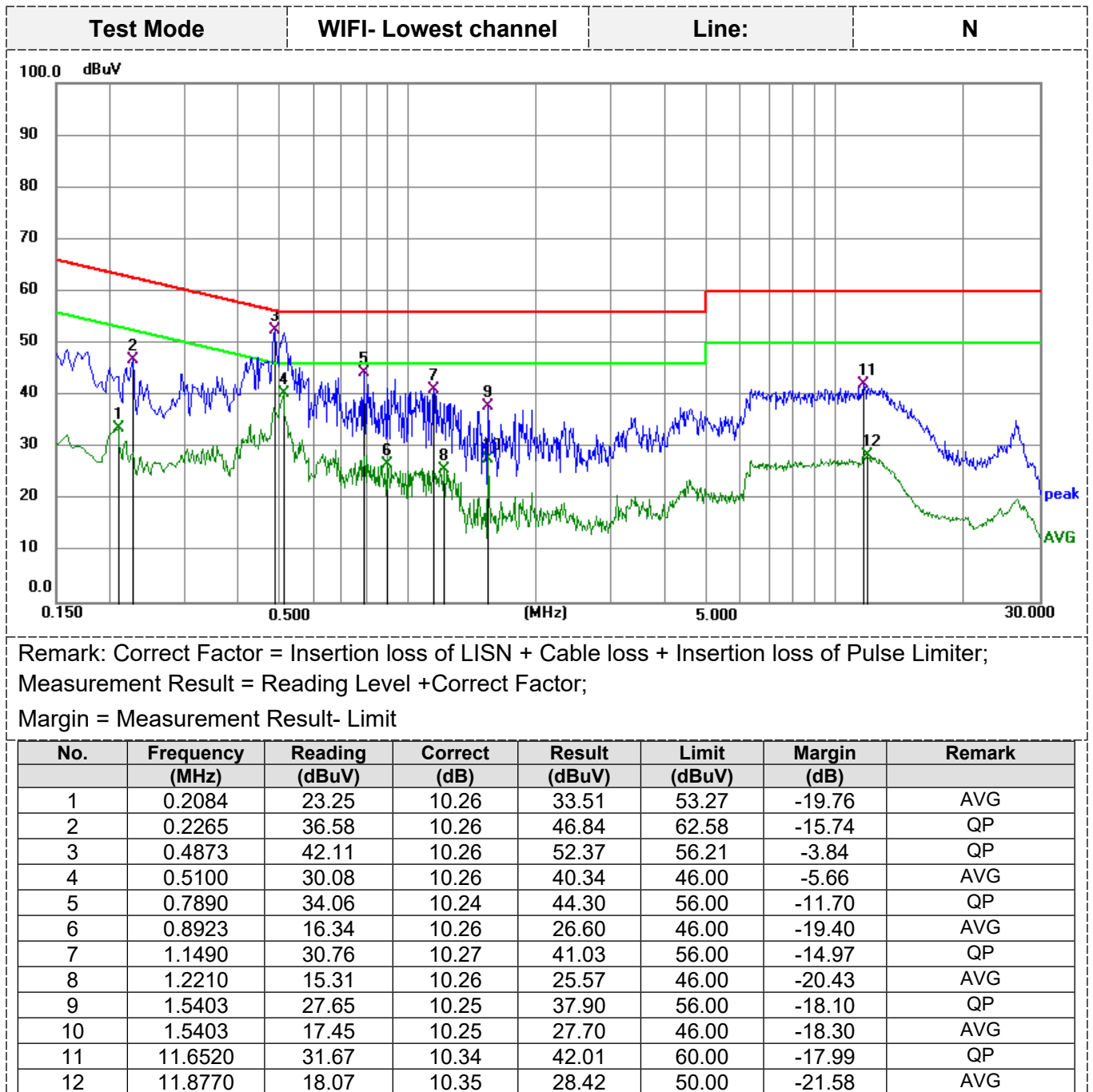
Remark: Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



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	0.1544	37.30	10.30	47.60	65.76	-18.16	QP
2	0.2040	22.90	10.26	33.16	53.45	-20.29	AVG
3	0.5100	24.17	10.26	34.43	46.00	-11.57	AVG
4	0.5234	41.07	10.26	51.33	56.00	-4.67	QP
5	0.8790	16.01	10.26	26.27	46.00	-19.73	AVG
6	0.9104	30.90	10.27	41.17	56.00	-14.83	QP
7	1.2164	13.79	10.26	24.05	46.00	-21.95	AVG
8	1.5404	29.21	10.25	39.46	56.00	-16.54	QP
9	1.5404	18.91	10.25	29.16	46.00	-16.84	AVG
10	1.8510	11.56	10.24	21.80	46.00	-24.20	AVG
11	2.0130	25.81	10.24	36.05	56.00	-19.95	QP
12	4.0875	26.30	10.17	36.47	56.00	-19.53	QP



3.2 Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

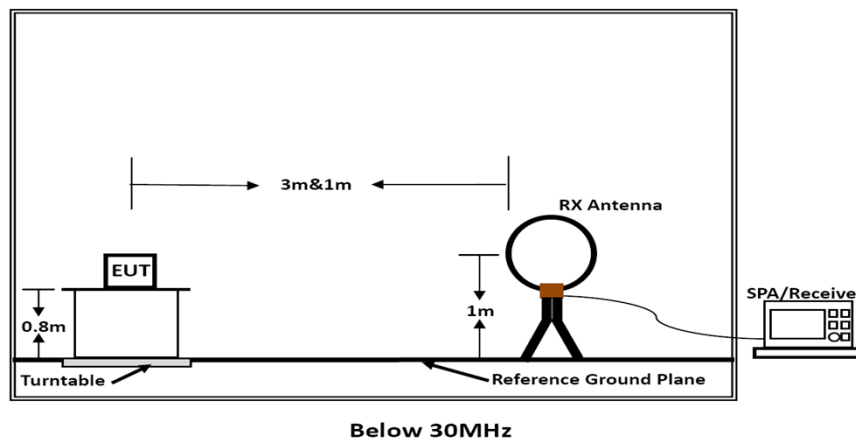
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

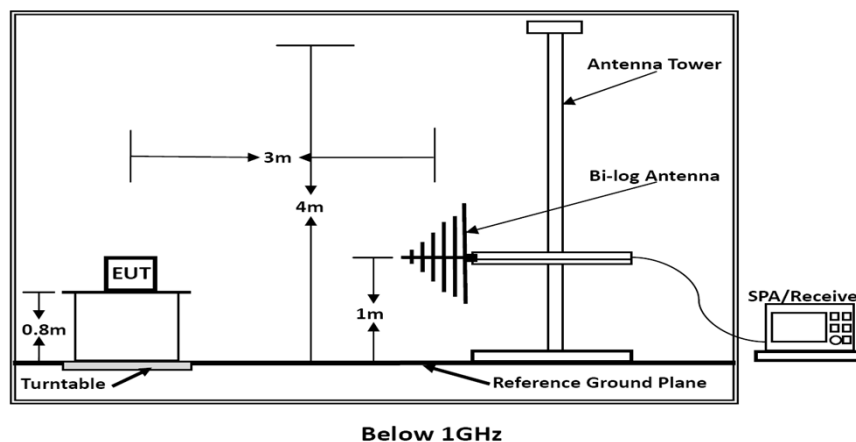
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

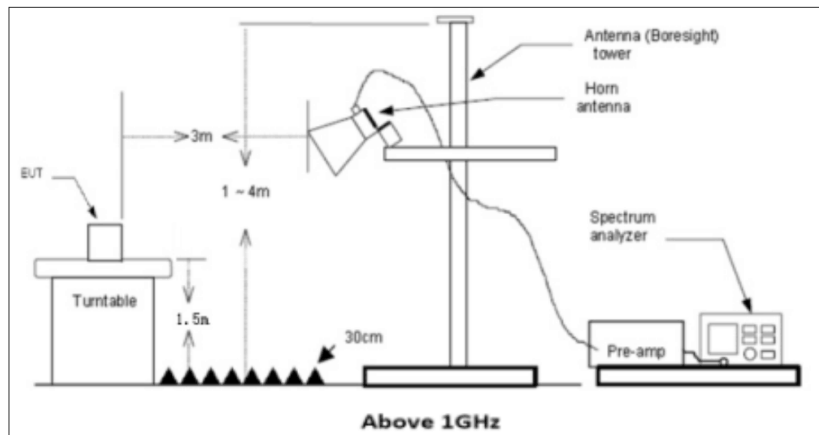
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 25GHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Antennna	1

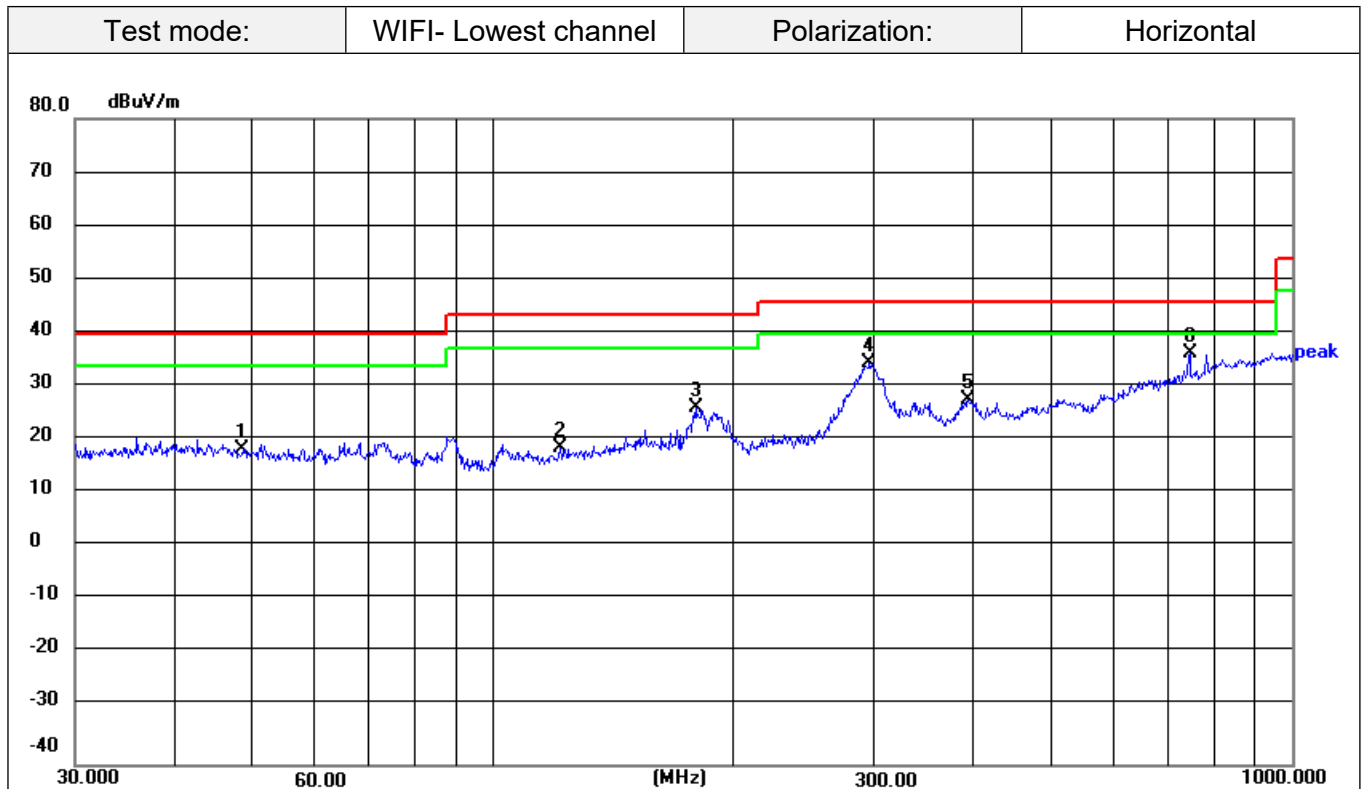
- Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

Remark: Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and The emission levels from 9kHz to 30MHz are attenuated 20dB below the limit and not recorded in report.

For 30MHz-1GHz



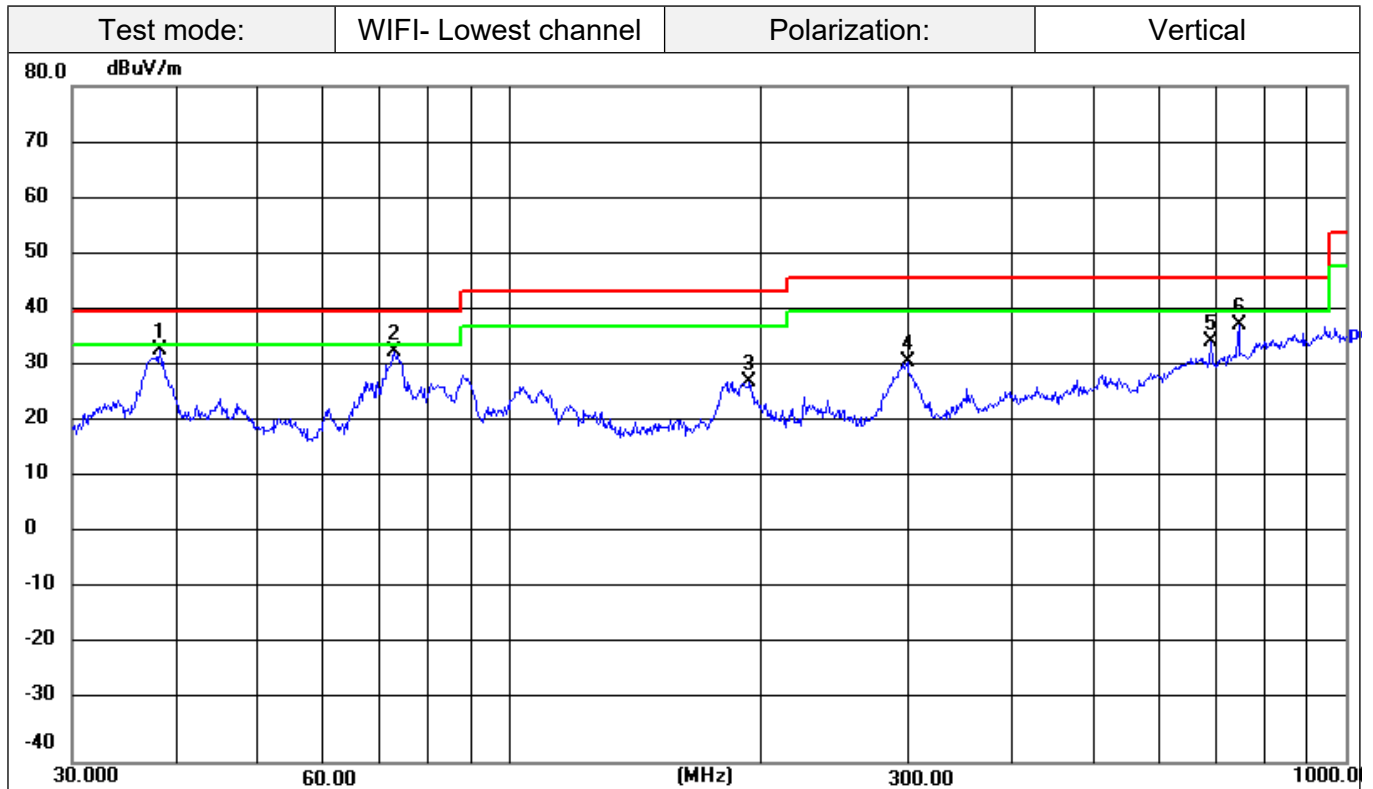
Remark:

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.	Height (cm)
1	48.6719	28.16	-9.52	18.64	40.00	-21.36	peak	100
2	121.5486	29.67	-10.79	18.88	43.50	-24.62	peak	100
3	179.3863	37.02	-10.63	26.39	43.50	-17.11	peak	100
4	296.1836	42.62	-7.96	34.66	46.00	-11.34	peak	100
5	393.4723	33.11	-5.38	27.73	46.00	-18.27	peak	100
6 *	744.8661	33.88	2.58	36.46	46.00	-9.54	peak	100



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)
1 *	38.2120	42.61	-9.38	33.23	40.00	-6.77	peak	100
2	72.8466	44.82	-11.91	32.91	40.00	-7.09	peak	100
3	193.7728	39.44	-11.96	27.48	43.50	-16.02	peak	100
4	299.3158	38.99	-7.88	31.11	46.00	-14.89	peak	100
5	689.5644	33.34	1.31	34.65	46.00	-11.35	peak	100
6	744.8661	35.05	2.58	37.63	46.00	-8.37	peak	100

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.25	-7.92	47.33	74.00	26.67	Vertical
4824.00	52.93	-7.92	45.01	74.00	28.99	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	45.37	-7.92	37.45	54.00	16.55	Vertical
4824.00	45.20	-7.92	37.28	54.00	16.72	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.68	-7.55	48.13	74.00	25.87	Vertical
4874.00	53.27	-7.55	45.72	74.00	28.28	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	45.12	-7.55	37.57	54.00	16.43	Vertical
4874.00	45.33	-7.55	37.78	54.00	16.22	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	55.71	-7.21	48.50	74.00	25.50	Vertical
4924.00	53.22	-7.21	46.01	74.00	27.99	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	45.01	-7.21	37.80	54.00	16.20	Vertical
4924.00	45.51	-7.21	38.30	54.00	15.70	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

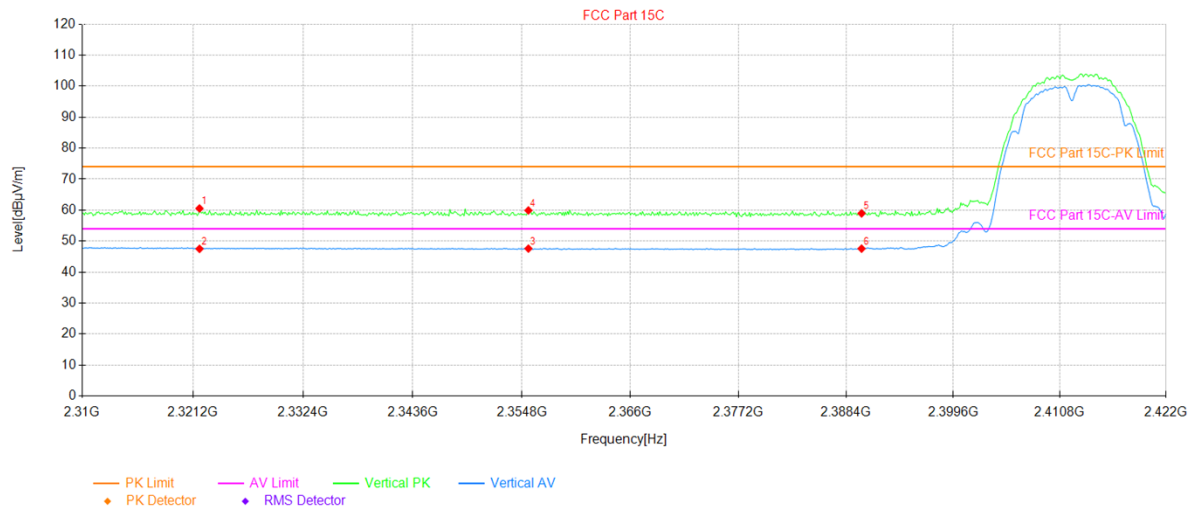
802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.15	-7.82	47.33	74.00	26.67	Vertical
4824.00	52.76	-7.82	44.94	74.00	29.06	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	45.46	-7.82	37.64	54.00	16.36	Vertical
4824.00	45.22	-7.82	37.40	54.00	16.60	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.40	-7.50	47.90	74.00	26.10	Vertical
4874.00	53.89	-7.50	46.39	74.00	27.61	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	45.30	-7.50	37.80	54.00	16.20	Vertical
4874.00	45.69	-7.50	38.19	54.00	15.81	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.36	-7.21	49.15	74.00	24.85	Vertical
4924.00	53.40	-7.21	46.19	74.00	27.81	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	44.72	-7.21	37.51	54.00	16.49	Vertical
4924.00	45.57	-7.21	38.36	54.00	15.64	Horizontal

REMARKS:

1. Emission level (dBuV/m) = Reading (dBuV)+ Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Emission level- Limit value.
4. -- Mean the PK detector measured value is below average limit.
5. Other emission levels are attenuated 20dB below the limit and not recorded in report.
6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Radiation Restricted band

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



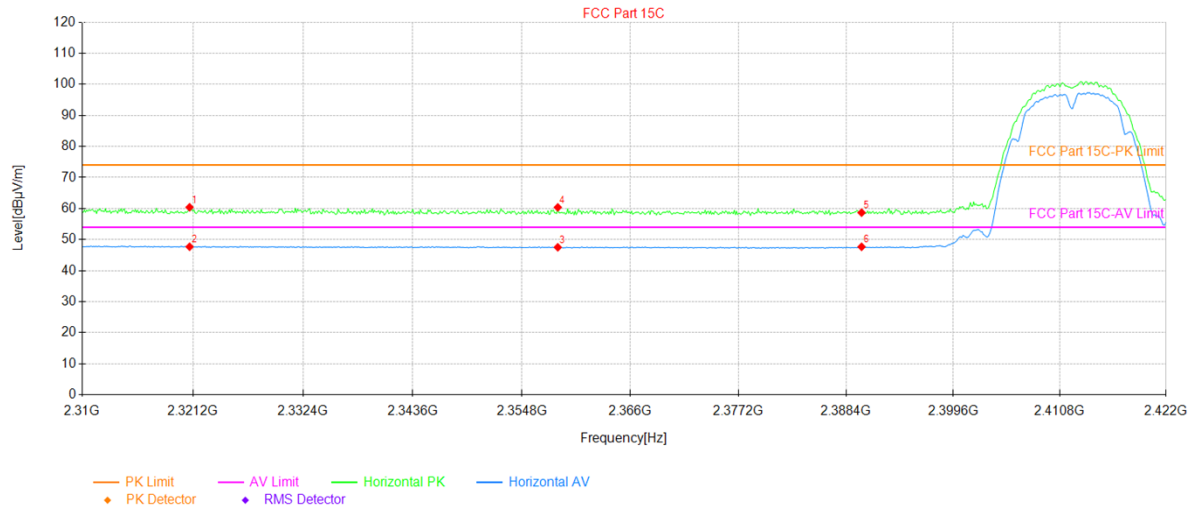
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.87	24.52	36.02	60.54	74.00	13.46	80	PK	PASS	Vertical
2	2321.87	11.50	36.02	47.52	54.00	6.48	265	AV	PASS	Vertical
3	2355.47	11.50	36.09	47.59	54.00	6.41	337	AV	PASS	Vertical
4	2355.47	23.81	36.09	59.90	74.00	14.10	73	PK	PASS	Vertical
5	2390.00	22.76	36.19	58.95	74.00	15.05	4	PK	PASS	Vertical
6	2390.00	11.39	36.19	47.58	54.00	6.42	80	AV	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



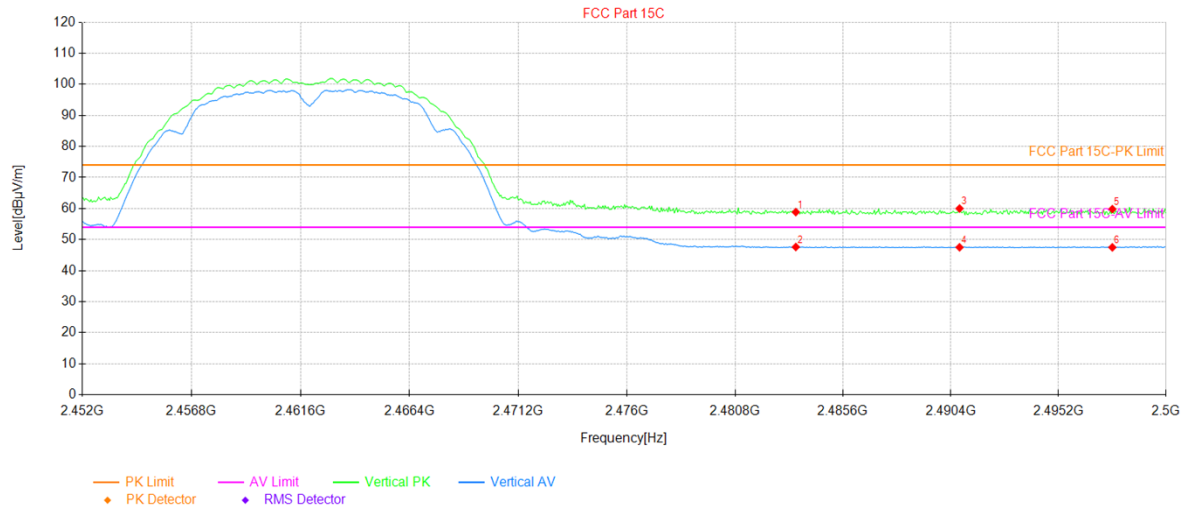
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2320.86	24.39	36.02	60.41	74.00	13.59	236	PK	PASS	Horizontal
2	2320.86	11.68	36.02	47.70	54.00	6.30	277	AV	PASS	Horizontal
3	2358.50	11.42	36.10	47.52	54.00	6.48	186	AV	PASS	Horizontal
4	2358.50	24.27	36.10	60.37	74.00	13.63	183	PK	PASS	Horizontal
5	2390.00	22.49	36.19	58.68	74.00	15.32	12	PK	PASS	Horizontal
6	2390.00	11.49	36.19	47.68	54.00	6.32	137	AV	PASS	Horizontal

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



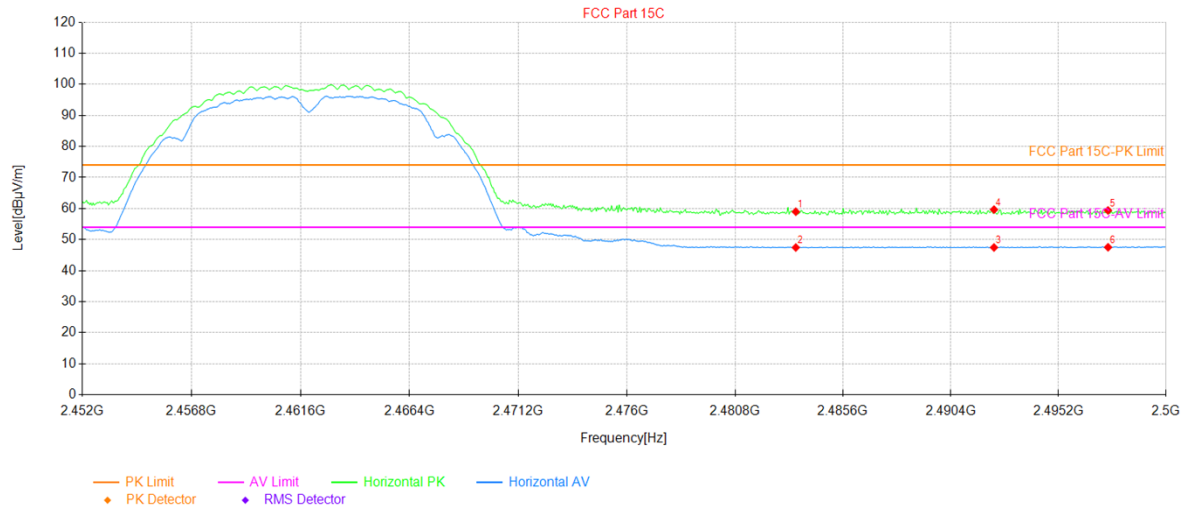
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.61	36.24	58.85	74.00	15.15	38	PK	PASS	Vertical
2	2483.50	11.38	36.24	47.62	54.00	6.38	80	AV	PASS	Vertical
3	2490.78	23.71	36.30	60.01	74.00	13.99	190	PK	PASS	Vertical
4	2490.78	11.22	36.30	47.52	54.00	6.48	114	AV	PASS	Vertical
5	2497.60	23.45	36.36	59.81	74.00	14.19	209	PK	PASS	Vertical
6	2497.60	11.14	36.36	47.50	54.00	6.50	352	AV	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



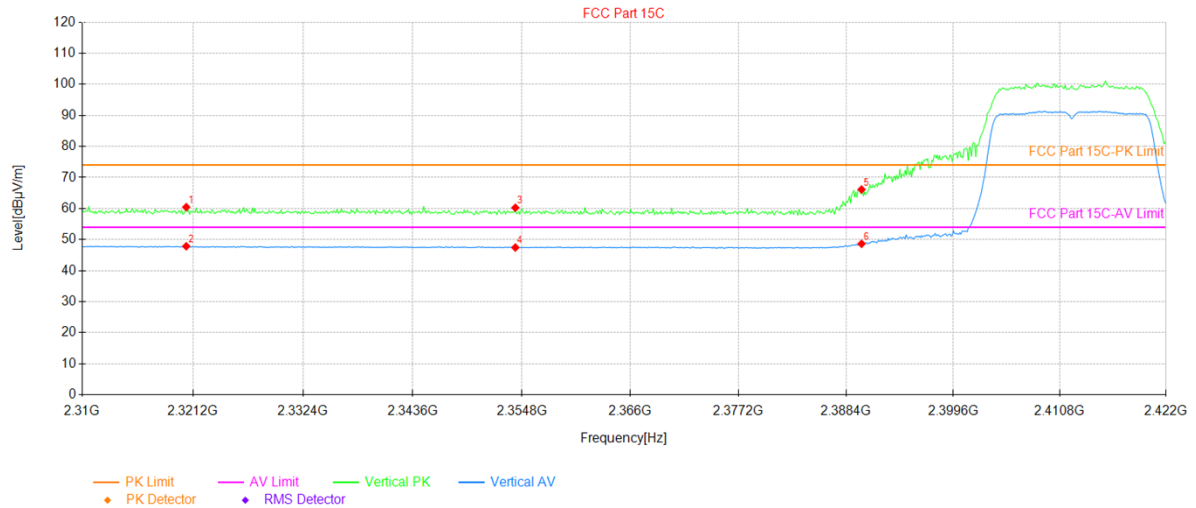
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.73	36.24	58.97	74.00	15.03	91	PK	PASS	Horizontal
2	2483.50	11.21	36.24	47.45	54.00	6.55	284	AV	PASS	Horizontal
3	2492.32	11.15	36.32	47.47	54.00	6.53	280	AV	PASS	Horizontal
4	2492.32	23.34	36.32	59.66	74.00	14.34	19	PK	PASS	Horizontal
5	2497.41	23.02	36.36	59.38	74.00	14.62	235	PK	PASS	Horizontal
6	2497.41	11.17	36.36	47.53	54.00	6.47	201	AV	PASS	Horizontal

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



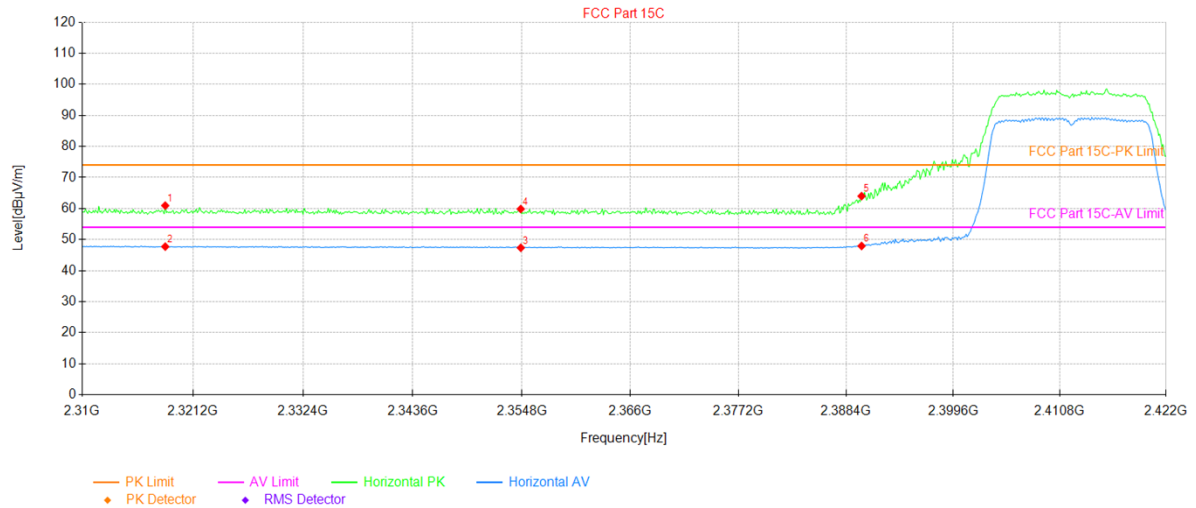
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2320.53	24.44	36.02	60.46	74.00	13.54	212	PK	PASS	Vertical
2	2320.53	11.84	36.02	47.86	54.00	6.14	104	AV	PASS	Vertical
3	2354.13	24.18	36.08	60.26	74.00	13.74	311	PK	PASS	Vertical
4	2354.13	11.36	36.08	47.44	54.00	6.56	205	AV	PASS	Vertical
5	2390.00	29.93	36.19	66.12	74.00	7.88	111	PK	PASS	Vertical
6	2390.00	12.46	36.19	48.65	54.00	5.35	66	AV	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



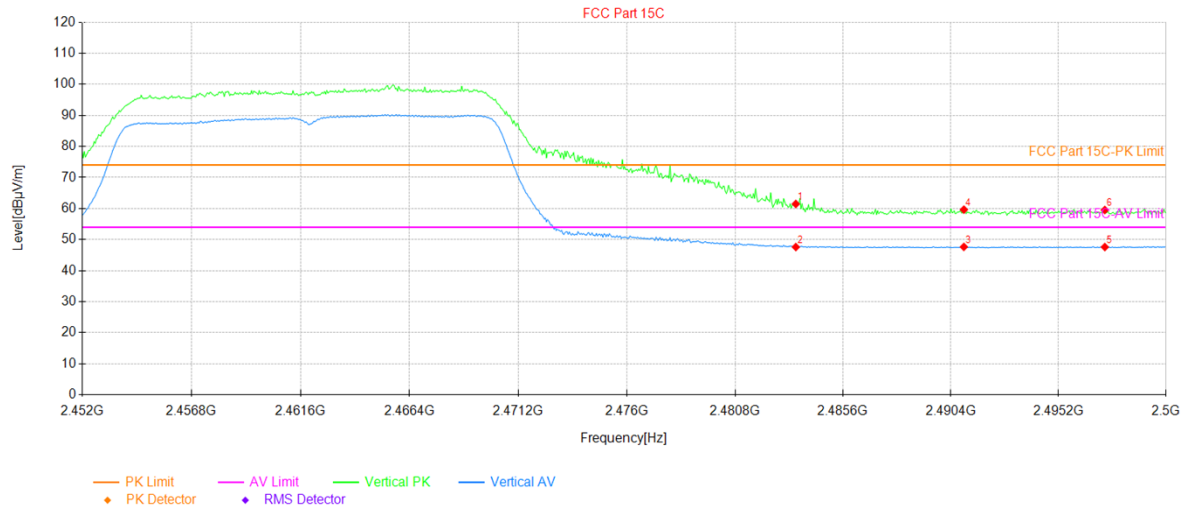
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2318.40	24.92	36.02	60.94	74.00	13.06	204	PK	PASS	Horizontal
2	2318.40	11.72	36.02	47.74	54.00	6.26	193	AV	PASS	Horizontal
3	2354.69	11.29	36.08	47.37	54.00	6.63	296	AV	PASS	Horizontal
4	2354.69	23.77	36.08	59.85	74.00	14.15	235	PK	PASS	Horizontal
5	2390.00	27.80	36.19	63.99	74.00	10.01	140	PK	PASS	Horizontal
6	2390.00	11.75	36.19	47.94	54.00	6.06	140	AV	PASS	Horizontal

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



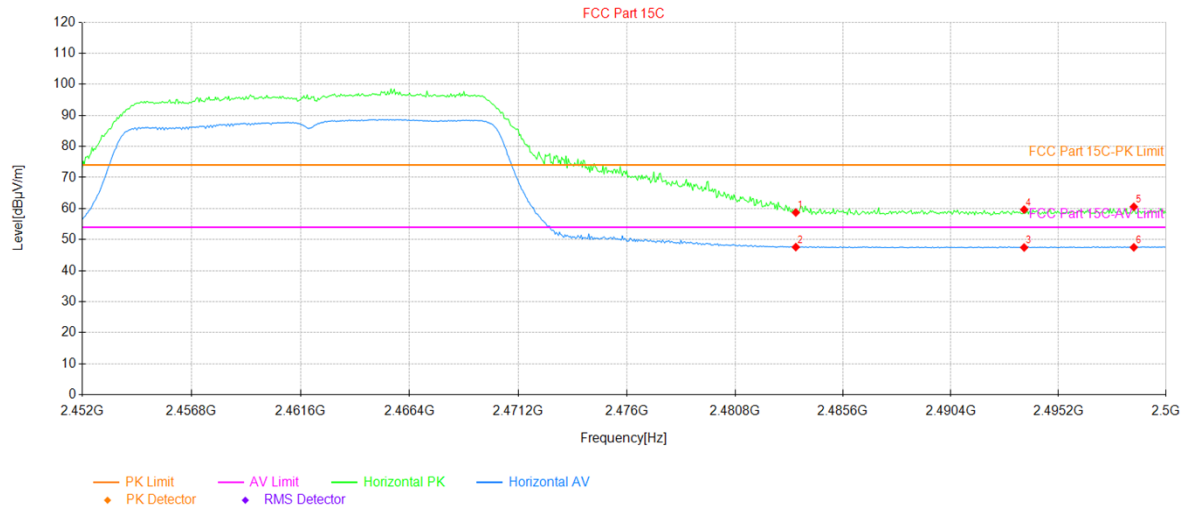
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	25.23	36.24	61.47	74.00	12.53	66	PK	PASS	Vertical
2	2483.50	11.36	36.24	47.60	54.00	6.40	92	AV	PASS	Vertical
3	2490.98	11.35	36.30	47.65	54.00	6.35	268	AV	PASS	Vertical
4	2490.98	23.35	36.30	59.65	74.00	14.35	257	PK	PASS	Vertical
5	2497.26	11.25	36.36	47.61	54.00	6.39	268	AV	PASS	Vertical
6	2497.26	23.17	36.36	59.53	74.00	14.47	257	PK	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



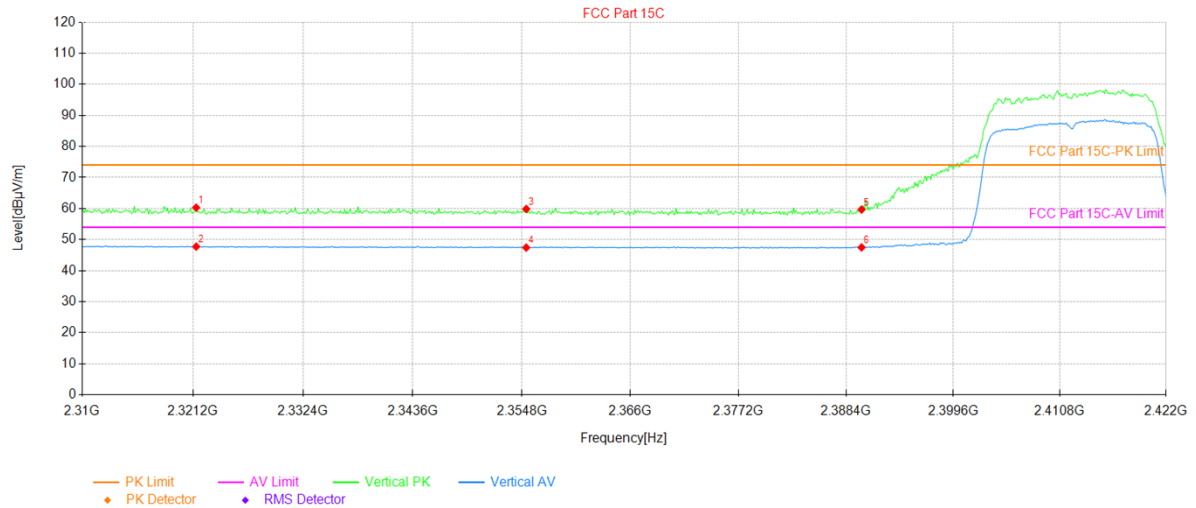
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.48	36.24	58.72	74.00	15.28	49	PK	PASS	Horizontal
2	2483.50	11.35	36.24	47.59	54.00	6.41	324	AV	PASS	Horizontal
3	2493.66	11.14	36.32	47.46	54.00	6.54	135	AV	PASS	Horizontal
4	2493.66	23.34	36.32	59.66	74.00	14.34	335	PK	PASS	Horizontal
5	2498.56	24.19	36.36	60.55	74.00	13.45	339	PK	PASS	Horizontal
6	2498.56	11.15	36.36	47.51	54.00	6.49	360	AV	PASS	Horizontal

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



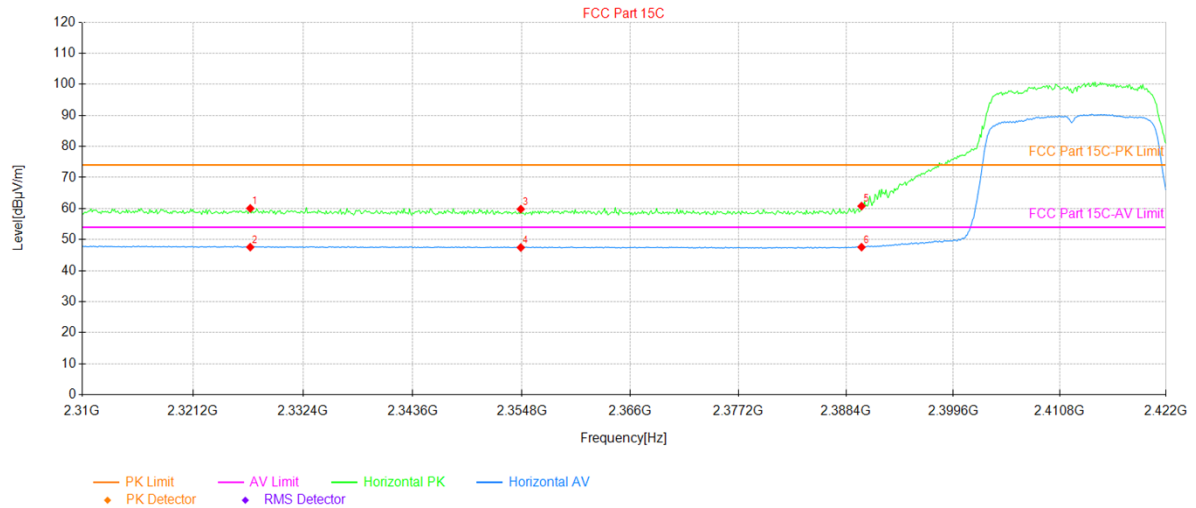
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.54	24.27	36.02	60.29	74.00	13.71	262	PK	PASS	Vertical
2	2321.54	11.72	36.02	47.74	54.00	6.26	176	AV	PASS	Vertical
3	2355.25	23.76	36.09	59.85	74.00	14.15	153	PK	PASS	Vertical
4	2355.25	11.34	36.09	47.43	54.00	6.57	126	AV	PASS	Vertical
5	2390.00	23.49	36.19	59.68	74.00	14.32	70	PK	PASS	Vertical
6	2390.00	11.30	36.19	47.49	54.00	6.51	70	AV	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



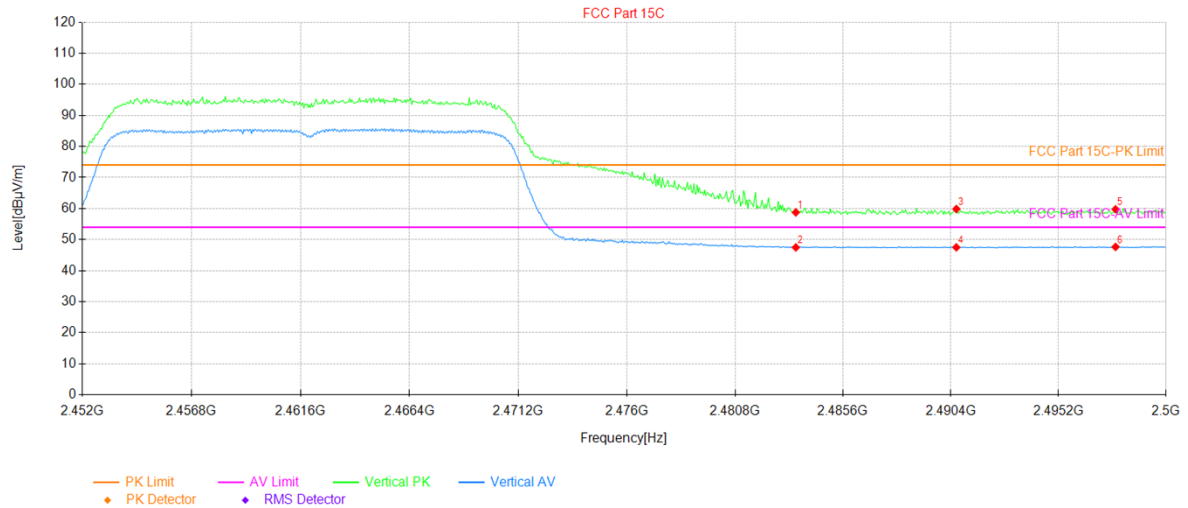
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2327.02	24.04	36.01	60.05	74.00	13.95	296	PK	PASS	Horizontal
2	2327.02	11.56	36.01	47.57	54.00	6.43	156	AV	PASS	Horizontal
3	2354.69	23.73	36.08	59.81	74.00	14.19	99	PK	PASS	Horizontal
4	2354.69	11.37	36.08	47.45	54.00	6.55	61	AV	PASS	Horizontal
5	2390.00	24.59	36.19	60.78	74.00	13.22	358	PK	PASS	Horizontal
6	2390.00	11.38	36.19	47.57	54.00	6.43	2	AV	PASS	Horizontal

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.91V		



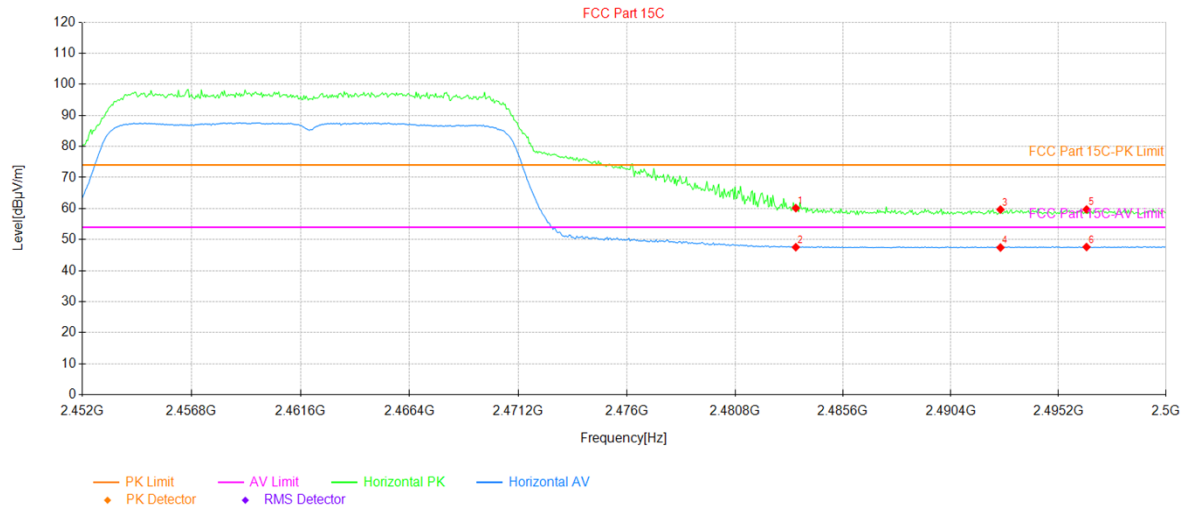
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.51	36.24	58.75	74.00	15.25	197	PK	PASS	Vertical
2	2483.50	11.24	36.24	47.48	54.00	6.52	261	AV	PASS	Vertical
3	2490.64	23.55	36.30	59.85	74.00	14.15	349	PK	PASS	Vertical
4	2490.64	11.20	36.30	47.50	54.00	6.50	215	AV	PASS	Vertical
5	2497.74	23.40	36.36	59.76	74.00	14.24	264	PK	PASS	Vertical
6	2497.74	11.28	36.36	47.64	54.00	6.36	28	AV	PASS	Vertical

Remark:

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

Product Name:	Mobile Phone	Product Model:	C681L
Test By:	Vic Duan	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.91V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	23.90	36.24	60.14	74.00	13.86	358	PK	PASS	Horizontal
2	2483.50	11.31	36.24	47.55	54.00	6.45	161	AV	PASS	Horizontal
3	2492.61	23.35	36.32	59.67	74.00	14.33	23	PK	PASS	Horizontal
4	2492.61	11.13	36.32	47.45	54.00	6.55	19	AV	PASS	Horizontal
5	2496.45	23.36	36.35	59.71	74.00	14.29	300	PK	PASS	Horizontal
6	2496.45	11.27	36.35	47.62	54.00	6.38	345	AV	PASS	Horizontal

Remark:

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

REMARKS:

- Emission level (dBuV/m) = Reading (dBuV)+ Factor (dB/m)
- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Emission level- Limit value.
- Other emission levels are attenuated 20dB below the limit and not recorded in report.
- RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

3.3 Maximum Peak Conducted Output Power

Limit

The maximum peak conducted output power shall not exceed 1.0 W.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power Meter.

PKPM1 Peak power meter method described in ANSI C63.10-2020 section 11.9.1.2 is used to measure the Conducted Output Power.

Test Configuration



Test Results

☒ **Pass** ☐ **Not Applicable**

Note:

For test data, please refer to Appendix RF test data for WIFI2.4G.

3.4 Power Spectral Density

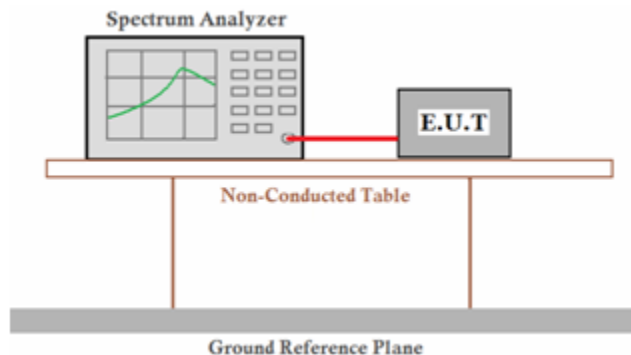
Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

☒ Pass ☐ Not Applicable

Note:

For test data, please refer to Appendix RF test data for WIFI2.4G.

3.5 6dB Bandwidth

Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

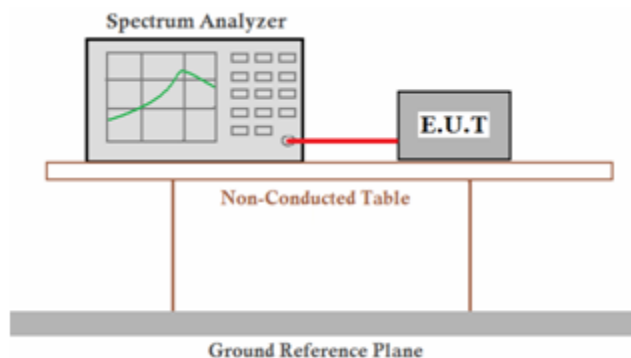
Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer. Set EUT in transmitting mode.

- Set Spectrum Analyzer to OBW measurement mode and set bandwidth mode with X set to 6 dB.
- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.

Allow trace to fully stabilize

Test Configuration



Test Results

☒ Pass ☐ Not Applicable

Note:

For test data, please refer to Appendix RF test data for WIFI2.4G.

3.6 Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer. Place the EUT on the table and set it in transmitting mode.

Step 1: Reference level measurement using the following procedure:

- g) Set instrument center frequency to DTS channel center frequency.
- h) Set the span to ≥ 1.5 times the DTS bandwidth.
- i) Set the RBW = 100 kHz.
- j) Set the VBW $\geq [3 \times \text{RBW}]$.
- k) Detector = peak.
- l) Sweep time = auto couple.
- m) Trace mode = max hold.
- n) Allow trace to fully stabilize.
- o) Use the peak marker function to determine the maximum PSD level.

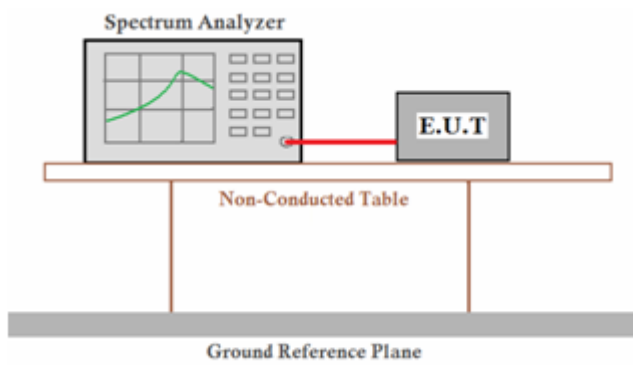
Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Emission level measurement using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements of PSD level measured in step 1 Reference level measurement.

Test Configuration



Test Results

Passed

☒ Pass ☐ Not Applicable

Note:

For test data, please refer to Appendix RF test data for WIFI2.4G.

3.7 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(b) (4):

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Result

The maximum gain of antenna was -1.68dBi with impedance 50Ω.

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