



FCC RF Test Report

(2.4G Wi-Fi)

Report No.: JYTSZ-R12-2301804
Applicant: SKY PHONE LLC
Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL33139

Equipment Under Test (EUT)

Product Name: Smartphone
 Model No.: SKY D63
 Trade Mark: SKY DEVICES

FCC ID: 2ABOSSKYD63

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 20 Dec., 2023
Date of Test: 21 Dec., 2023 to 11 Jan., 2024
Date of Report Issued: 12 Jan., 2024
Test Result: PASS

Project by:	<u>Logan Li</u> Project Engineer	Date:	<u>12 Jan., 2024</u>
Reviewed by:	<u>Victor Zhang</u> Senior Engineer	Date:	<u>12 Jan., 2024</u>
Approved by:	<u>Janet Wei</u> Manager	Date:	<u>12 Jan., 2024</u>

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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1 Version

Version No.	Date	Description
00	12 Jan., 2024	Original

2 Contents

	Page
Cover Page	1
1 Version	2
2 Contents	3
3 General Information	4
3.1 Client Information	4
3.2 General Description of E.U.T.	4
3.3 Test Mode and Environment	5
3.4 Description of Test Auxiliary Equipment	5
3.5 Measurement Uncertainty	5
3.6 Additions to, Deviations, or Exclusions from the Method	5
3.7 Laboratory Facility	6
3.8 Laboratory Location	6
3.9 Test Instruments List	6
4 Measurement Setup and Procedure	9
4.1 Test Channel	9
4.2 Test Setup	9
4.3 Test Procedure	11
5 Test Results	12
5.1 Summary	12
5.1.1 Clause and Data Summary	12
5.1.2 Test Limit	13
5.2 Antenna Requirement	14
5.3 AC Power Line Conducted Emission	15
5.4 Emissions in Restricted Frequency Bands	17
5.5 Emissions in Non-restricted Frequency Bands	33

3 General Information

3.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139

3.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	SKY D63
Operation Frequency:	2412 MHz - 2462 MHz (802.11b, g, n-HT20) 2422 MHz - 2452 MHz (802.11n-HT40)
Channel Numbers:	11 (802.11b, g, n-HT20) 7 (802.11n-HT40)
Channel Separation:	5MHz
Modulation Technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation Technology: (IEEE 802.11g/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	Internal Antenna
Antenna Gain:	1.0 dBi (declare by applicant)
Antenna Transmit Mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion Battery DC4.35V, 3000mAh
AC Adapter:	Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
Per-scan all kind of data rate, the follow list were the worst case:	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n-HT20	6.5Mbps
802.11n-HT40	13.5Mbps
Remark:	
1. For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11b, g, n modulation mode, found 802.11b modulation mode was worse case mode. The report only reflects the test data of worst mode. 2. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 4.35Vdc, Extreme: Low 3.915Vdc, High 4.785Vdc
Test Engineer:	Logan Li (Conducted measurement) Robin Gu (Radiated measurement)

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	3.57 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	5.34 dB
Radiated Emission (30MHz ~ 200MHz) (10m SAC)	4.3 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	4.3 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 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.

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

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

- **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>

3.8 Laboratory Location

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>

3.9 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	02-09-2023	02-08-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
				12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
				12-27-2023	12-26-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
				12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	09-25-2023	09-24-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-18-2023	01-17-2024
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	07-14-2023	07-13-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	01-09-2023	01-08-2024
				12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
				12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	01-09-2023	01-08-2024
				12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	05-14-2023	05-13-2024
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	05-14-2023	05-13-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
				12-27-2023	12-26-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-13-2023	06-12-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	01-17-2023	01-16-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	01-10-2023	01-09-2024
				12-28-2023	12-27-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-3	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-4	01-11-2023	01-09-2024
				12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-18-2023	01-17-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-18-2023	01-17-2024
Test Software	R&S	EMC32	Version: 10.50.40		

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	07-05-2023	07-04-2024
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	01-10-2023	01-09-2024
				12-27-2023	12-26-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	01-11-2023	01-10-2024
				12-27-2023	12-26-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-18-2023	01-17-2024
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	N9010B	WXJ004-3	11-01-2023	10-31-2024
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	09-25-2023	09-24-2024
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

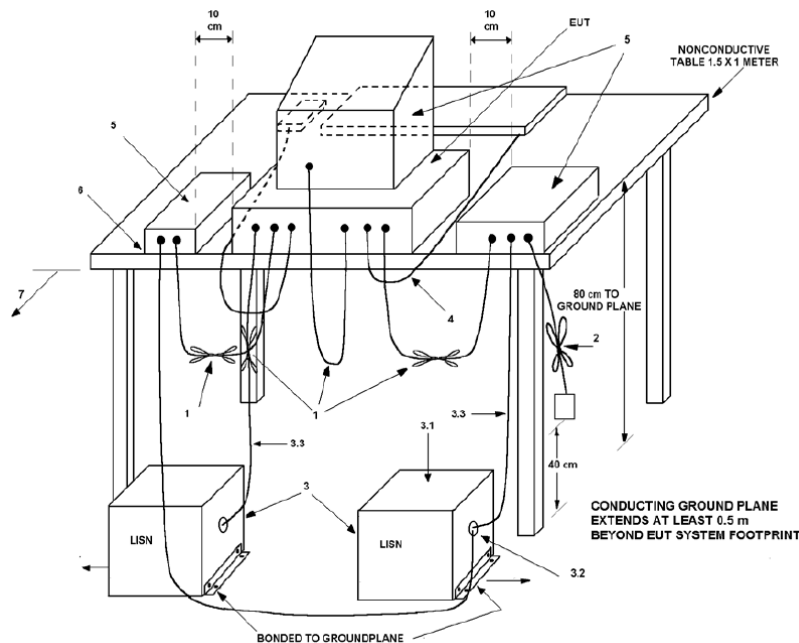
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

802.11n-HT40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

4.2 Test Setup

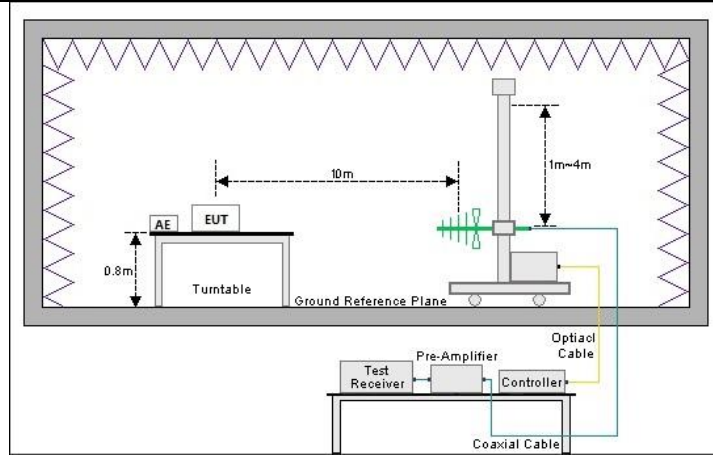
1) Conducted emission measurement:



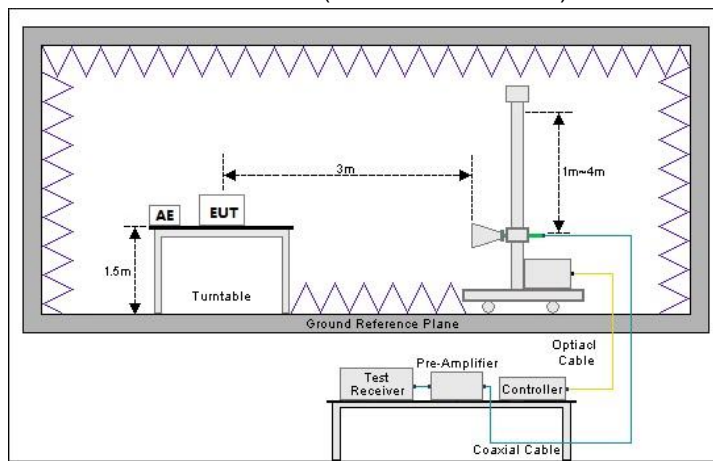
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

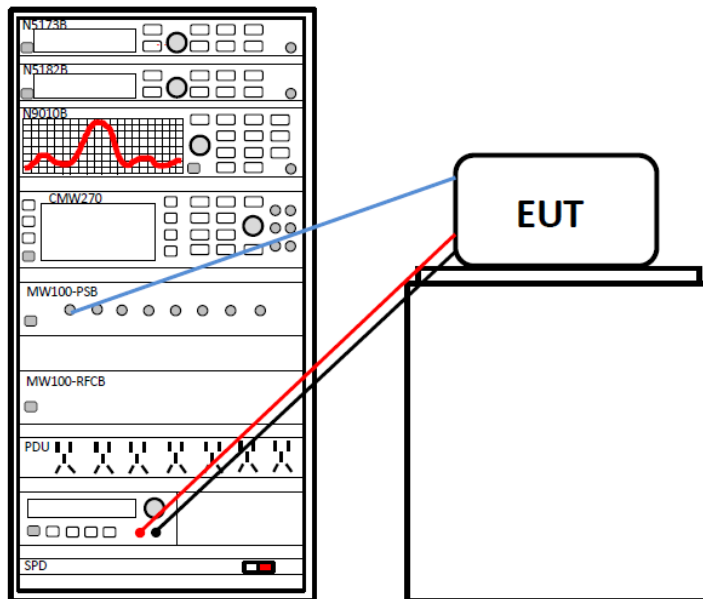
Below 1GHz (10m SAC)



Above 1GHz (3m SAC & 3m FAR)



3) Conducted test method



4.3 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	<p>For below 1GHz:</p> <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 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 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. <p>For above 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. 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 Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	See Section 5.3	Pass
Duty Cycle	ANSI C63.10-2013	Appendix – 2.4G Wi-Fi	Pass
Conducted Output Power	15.247 (b)(3)	Appendix – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix – 2.4G Wi-Fi	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix – 2.4G Wi-Fi	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.5	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5.1.2 Test Limit

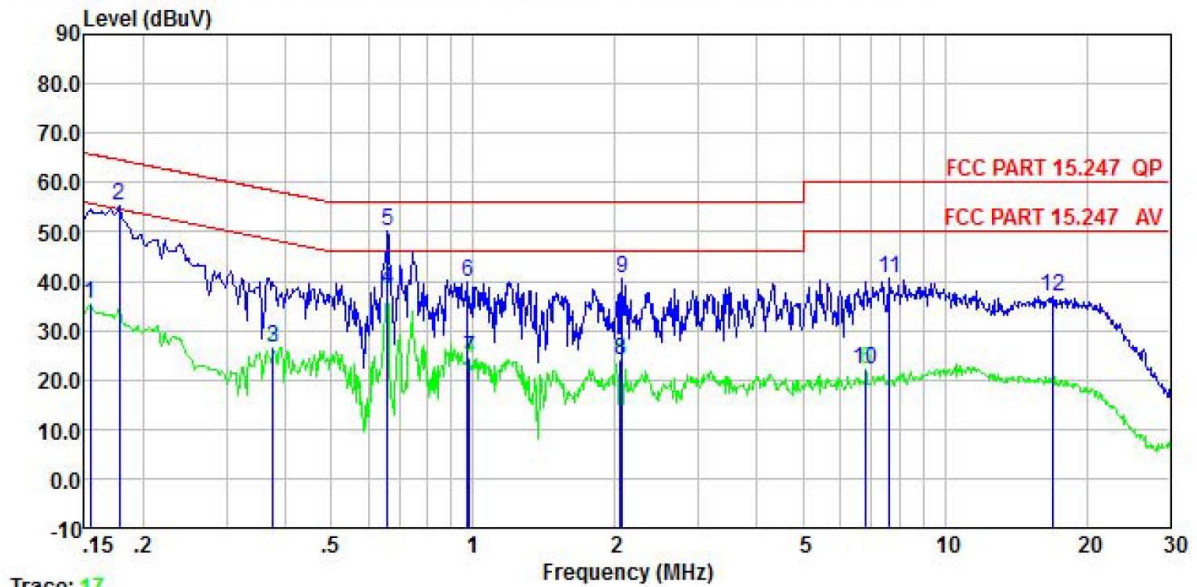
Test items	Limit																														
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 to 56 <small>Note 1</small></td> <td>56 to 46 <small>Note 1</small></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 (dB μ V)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dB μ V)																														
	Quasi-Peak	Average																													
0.15 – 0.5	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>																													
0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	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.																														
Band-edge Emission Conduction Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).																														
Emissions in Restricted Frequency Bands Emissions in Non-restricted Frequency Bands	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBμV/m)</th> <th rowspan="2">Detector</th> </tr> <tr> <th>@ 3m</th> <th>@ 10m</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>40.0</td> <td>30.0</td> <td>Quasi-peak</td> </tr> <tr> <td>88 – 216</td> <td>43.5</td> <td>33.5</td> <td>Quasi-peak</td> </tr> <tr> <td>216 – 960</td> <td>46.0</td> <td>36.0</td> <td>Quasi-peak</td> </tr> <tr> <td>960 – 1000</td> <td>54.0</td> <td>44.0</td> <td>Quasi-peak</td> </tr> </tbody> </table> <p>Note: The more stringent limit applies at transition frequencies.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="2">Limit (dBμV/m) @ 3m</th> </tr> <tr> <th>Average</th> <th>Peake</th> </tr> </thead> <tbody> <tr> <td>Above 1 GHz</td> <td>54.0</td> <td>74.0</td> </tr> </tbody> </table> <p>Note: The measurement bandwidth shall be 1 MHz or greater.</p>	Frequency (MHz)	Limit (dB μ V/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dB μ V/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dB μ V/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dB μ V/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													

5.2 Antenna Requirement

Standard Requirement:	FCC Part 15 C Section 15.203/15.247 (b)(4)
<p>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.</p> <p>15.247 (b)(4) requirement: 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.</p>	
E.U.T Antenna:	
<p>The Wi-Fi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.0 dBi. See product internal photos for details.</p>	

5.3 AC Power Line Conducted Emission

Product name:	Smartphone	Product model:	SKY D63
Test by:	Asher	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



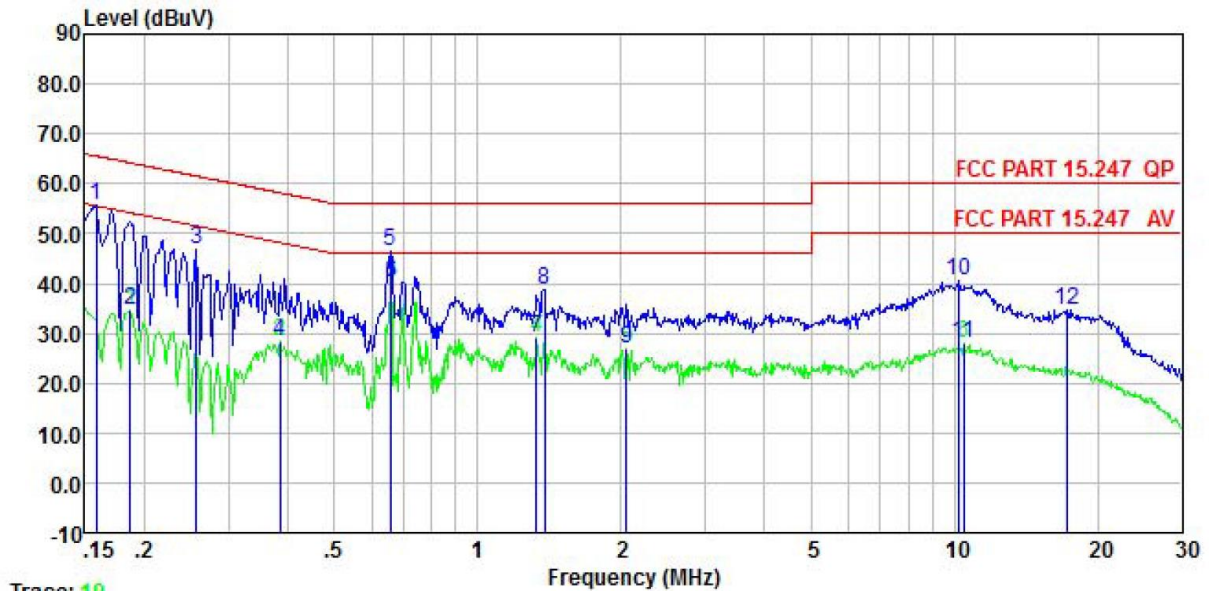
Trace: 17

	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	25.46	0.20	9.88	0.01	35.55	55.78	-20.23	Average
2	0.178	45.17	0.20	9.88	0.01	55.26	64.59	-9.33	QP
3	0.377	16.49	0.20	9.88	0.03	26.60	48.34	-21.74	Average
4	0.658	28.08	0.20	9.88	0.03	38.19	46.00	-7.81	Average
5	0.658	40.18	0.20	9.88	0.03	50.29	56.00	-5.71	QP
6	0.974	29.70	0.20	9.88	0.05	39.83	56.00	-16.17	QP
7	0.984	14.12	0.20	9.88	0.05	24.25	46.00	-21.75	Average
8	2.055	13.77	0.20	9.88	0.20	24.05	46.00	-21.95	Average
9	2.066	30.10	0.20	9.88	0.20	40.38	56.00	-15.62	QP
10	6.805	11.90	0.20	9.90	0.10	22.10	50.00	-27.90	Average
11	7.646	30.45	0.20	9.90	0.10	40.65	60.00	-19.35	QP
12	16.928	26.36	0.24	9.94	0.16	36.70	60.00	-23.30	QP

Remark:

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

Product name:	Smartphone	Product model:	SKY D63
Test by:	Asher	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 19

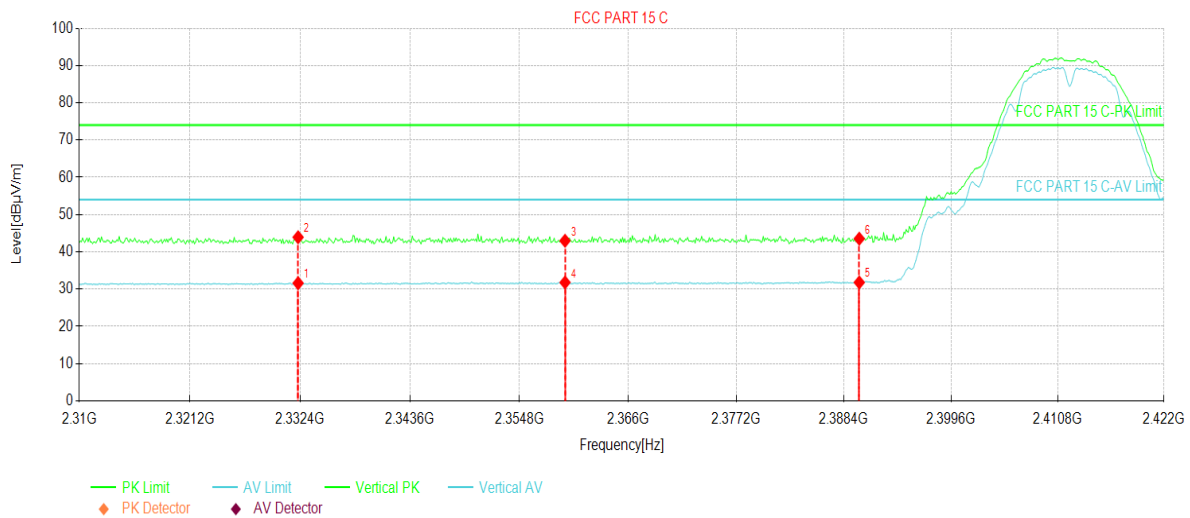
	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	45.56	0.20	9.88	0.01	55.65	65.56	-9.91	QP
2	0.186	24.39	0.20	9.88	0.02	34.49	54.20	-19.71	Average
3	0.258	36.67	0.20	9.88	0.01	46.76	61.51	-14.75	QP
4	0.385	18.13	0.20	9.88	0.03	28.24	48.17	-19.93	Average
5	0.654	36.31	0.20	9.88	0.03	46.42	56.00	-9.58	QP
6	0.658	30.09	0.20	9.88	0.03	40.20	46.00	-5.80	Average
7	1.331	18.94	0.24	9.88	0.12	29.18	46.00	-16.82	Average
8	1.381	28.39	0.25	9.88	0.13	38.65	56.00	-17.35	QP
9	2.055	16.37	0.30	9.88	0.20	26.75	46.00	-19.25	Average
10	10.233	30.01	0.40	9.91	0.13	40.45	60.00	-19.55	QP
11	10.452	17.51	0.40	9.91	0.12	27.94	50.00	-22.06	Average
12	17.199	24.13	0.40	9.94	0.15	34.62	60.00	-25.38	QP

Remark:

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

5.4 Emissions in Restricted Frequency Bands

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

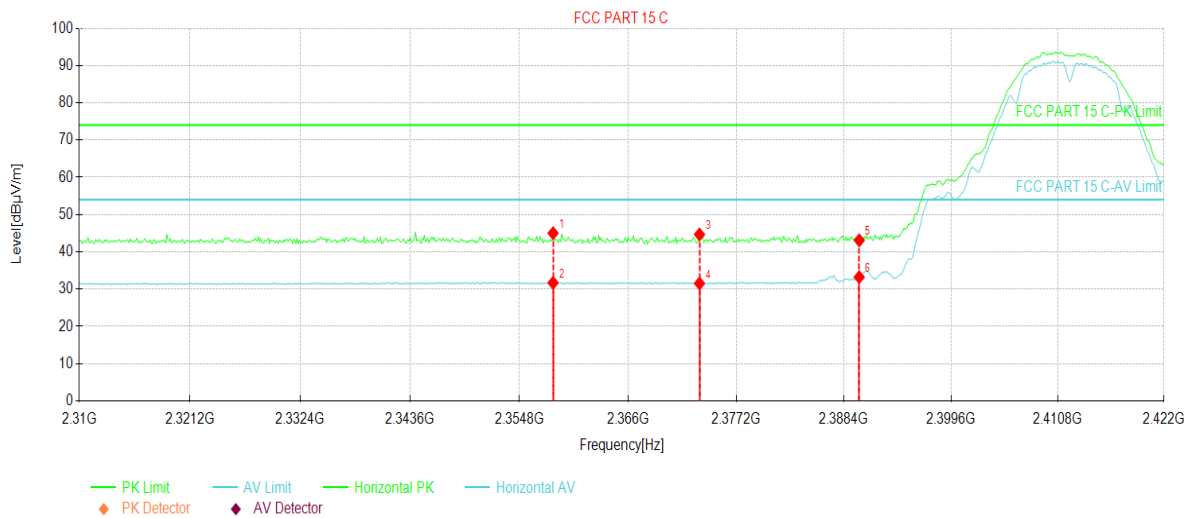


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2332.17	50.44	31.59	-18.85	54.00	22.41	AV	Vertical
2	2332.17	62.77	43.92	-18.85	74.00	30.08	PK	Vertical
3	2359.50	61.81	42.97	-18.84	74.00	31.03	PK	Vertical
4	2359.50	50.62	31.78	-18.84	54.00	22.22	AV	Vertical
5	2390.00	50.61	31.79	-18.82	54.00	22.21	AV	Vertical
6	2390.00	62.35	43.53	-18.82	74.00	30.47	PK	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

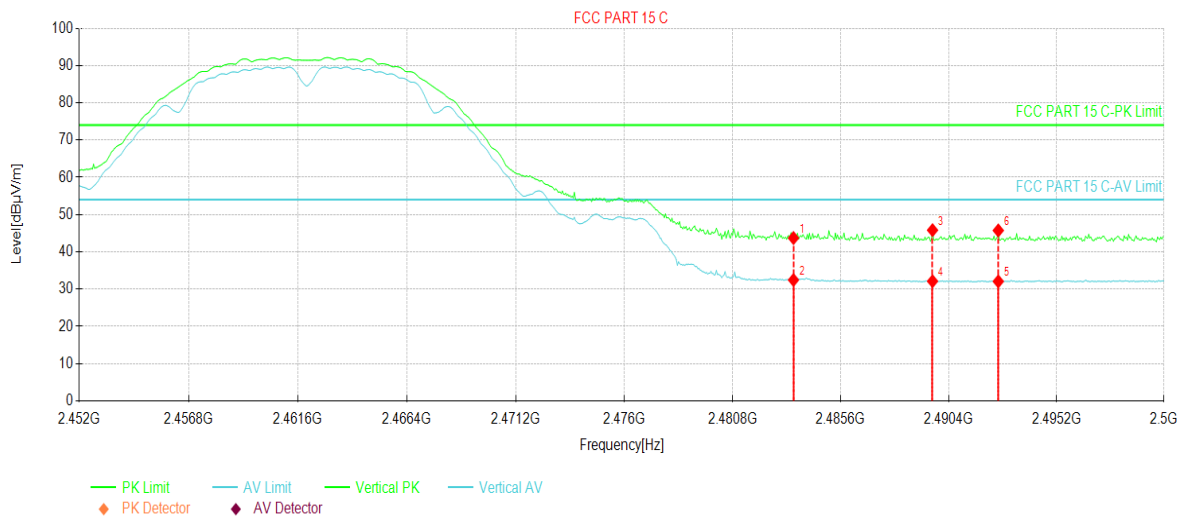


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2358.27	63.85	45.01	-18.84	74.00	28.99	PK	Horizontal
2	2358.27	50.53	31.69	-18.84	54.00	22.31	AV	Horizontal
3	2373.39	63.49	44.66	-18.83	74.00	29.34	PK	Horizontal
4	2373.39	50.35	31.52	-18.83	54.00	22.48	AV	Horizontal
5	2390.00	61.91	43.09	-18.82	74.00	30.91	PK	Horizontal
6	2390.00	52.03	33.21	-18.82	54.00	20.79	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

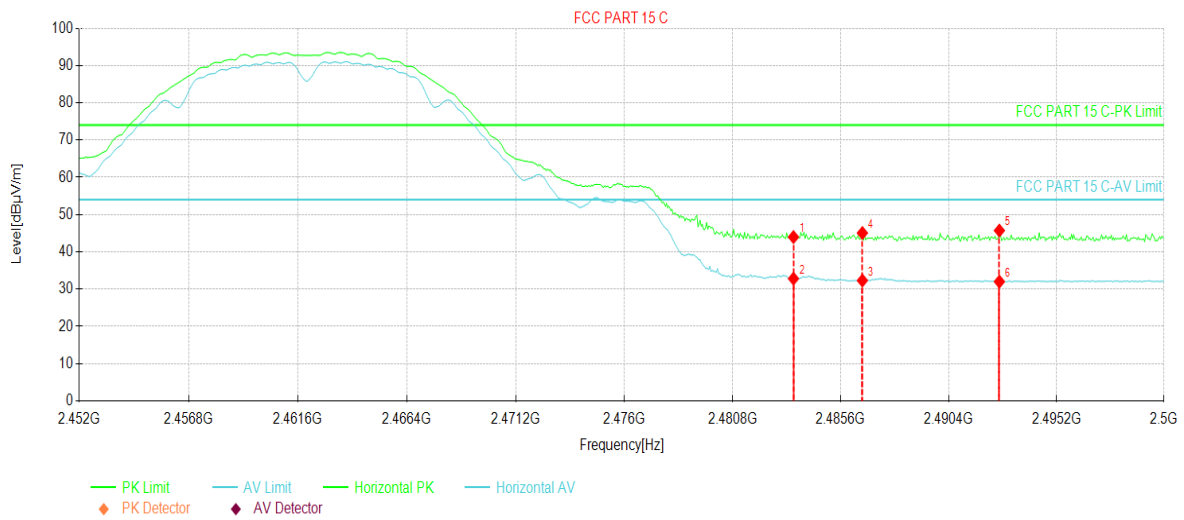


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	62.37	43.70	-18.67	74.00	30.30	PK	Vertical
2	2483.50	51.12	32.45	-18.67	54.00	21.55	AV	Vertical
3	2489.68	64.48	45.81	-18.67	74.00	28.19	PK	Vertical
4	2489.68	50.78	32.11	-18.67	54.00	21.89	AV	Vertical
5	2492.60	50.75	32.07	-18.68	54.00	21.93	AV	Vertical
6	2492.60	64.42	45.74	-18.68	74.00	28.26	PK	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

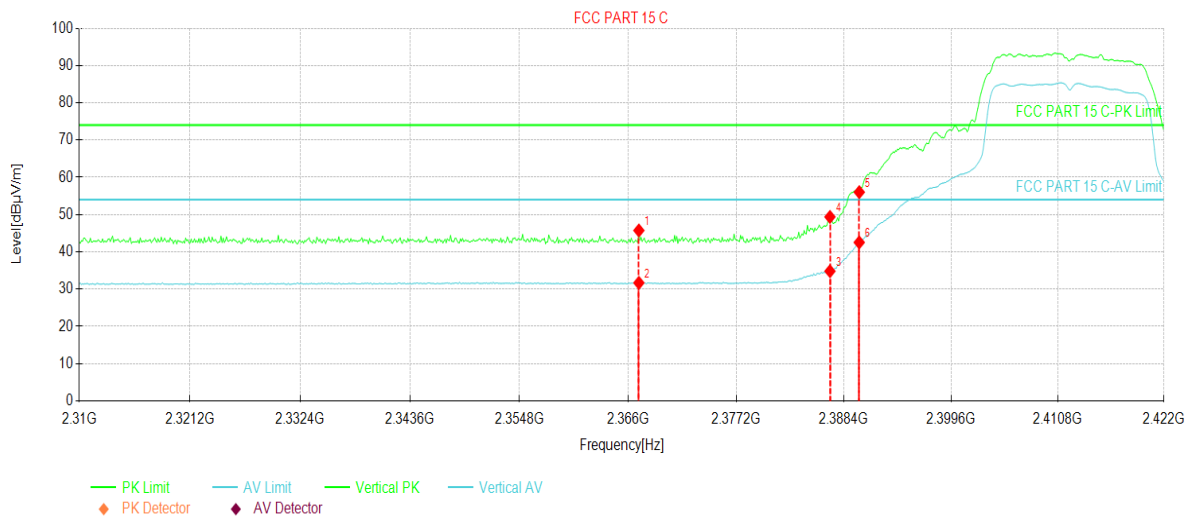


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	62.64	43.97	-18.67	74.00	30.03	PK	Horizontal
2	2483.50	51.48	32.81	-18.67	54.00	21.19	AV	Horizontal
3	2486.56	50.97	32.30	-18.67	54.00	21.70	AV	Horizontal
4	2486.56	63.72	45.05	-18.67	74.00	28.95	PK	Horizontal
5	2492.65	64.39	45.71	-18.68	74.00	28.29	PK	Horizontal
6	2492.65	50.68	32.00	-18.68	54.00	22.00	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

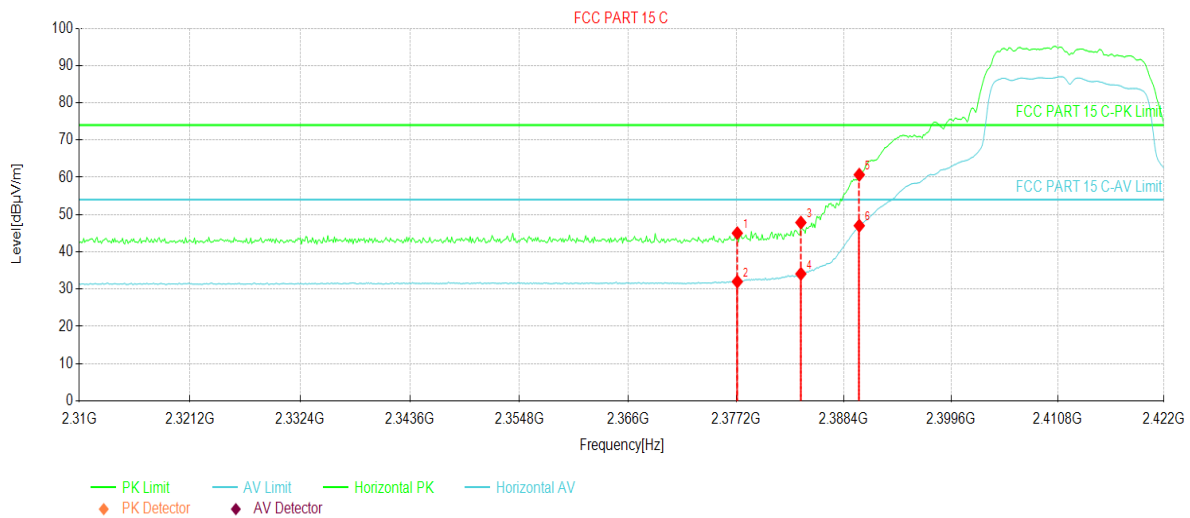


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2367.12	64.56	45.73	-18.83	74.00	28.27	PK	Vertical
2	2367.12	50.50	31.67	-18.83	54.00	22.33	AV	Vertical
3	2386.94	53.64	34.81	-18.83	54.00	19.19	AV	Vertical
4	2386.94	68.20	49.37	-18.83	74.00	24.63	PK	Vertical
5	2390.00	74.84	56.02	-18.82	74.00	17.98	PK	Vertical
6	2390.00	61.35	42.53	-18.82	54.00	11.47	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

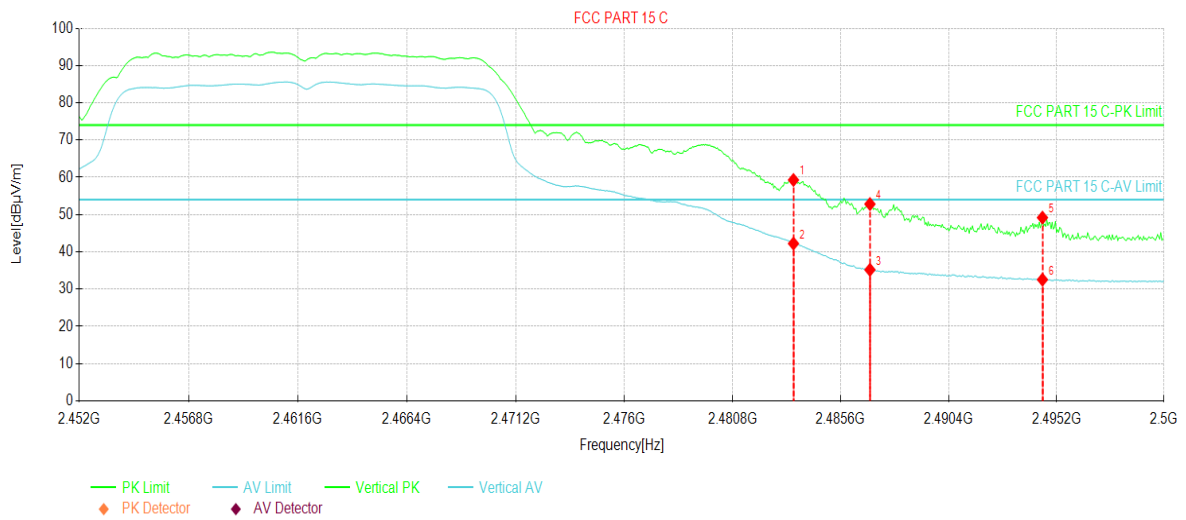


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2377.31	63.84	45.01	-18.83	74.00	28.99	PK	Horizontal
2	2377.31	50.83	32.00	-18.83	54.00	22.00	AV	Horizontal
3	2383.92	66.68	47.85	-18.83	74.00	26.15	PK	Horizontal
4	2383.92	52.93	34.10	-18.83	54.00	19.90	AV	Horizontal
5	2390.00	79.51	60.69	-18.82	74.00	13.31	PK	Horizontal
6	2390.00	65.83	47.01	-18.82	54.00	6.99	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

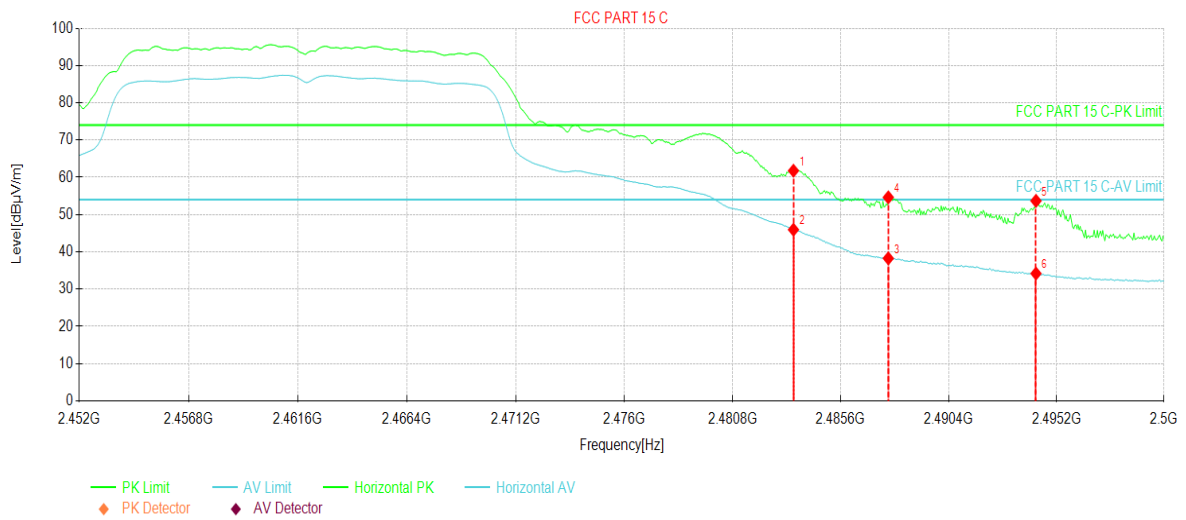


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	77.96	59.29	-18.67	74.00	14.71	PK	Vertical
2	2483.50	60.89	42.22	-18.67	54.00	11.78	AV	Vertical
3	2486.89	53.85	35.18	-18.67	54.00	18.82	AV	Vertical
4	2486.89	71.49	52.82	-18.67	74.00	21.18	PK	Vertical
5	2494.57	67.86	49.18	-18.68	74.00	24.82	PK	Vertical
6	2494.57	51.22	32.54	-18.68	54.00	21.46	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

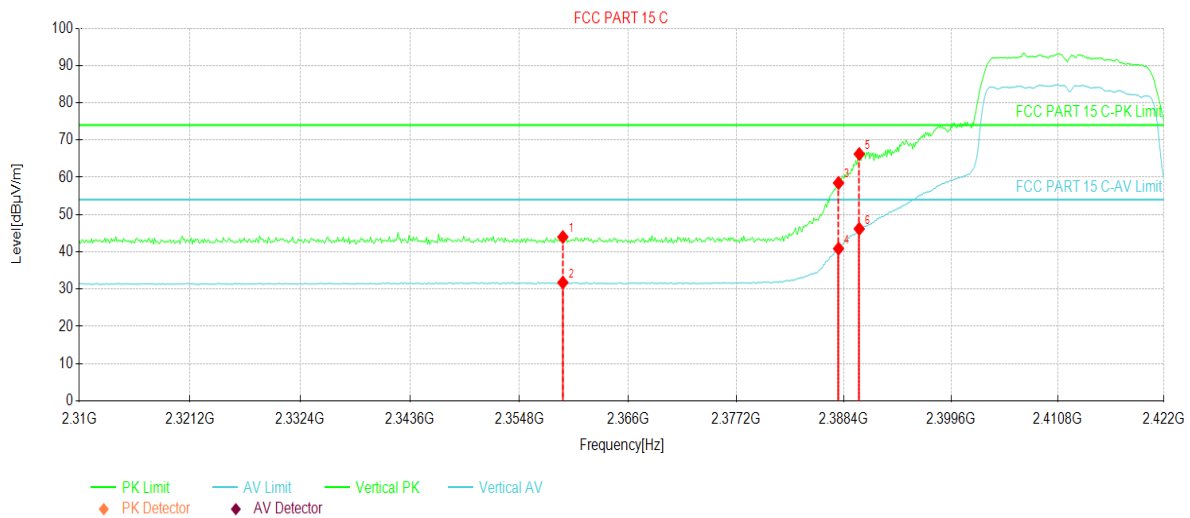


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	80.43	61.76	-18.67	74.00	12.24	PK	Horizontal
2	2483.50	64.62	45.95	-18.67	54.00	8.05	AV	Horizontal
3	2487.71	56.92	38.25	-18.67	54.00	15.75	AV	Horizontal
4	2487.71	73.29	54.62	-18.67	74.00	19.38	PK	Horizontal
5	2494.28	72.36	53.68	-18.68	74.00	20.32	PK	Horizontal
6	2494.28	52.85	34.17	-18.68	54.00	19.83	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

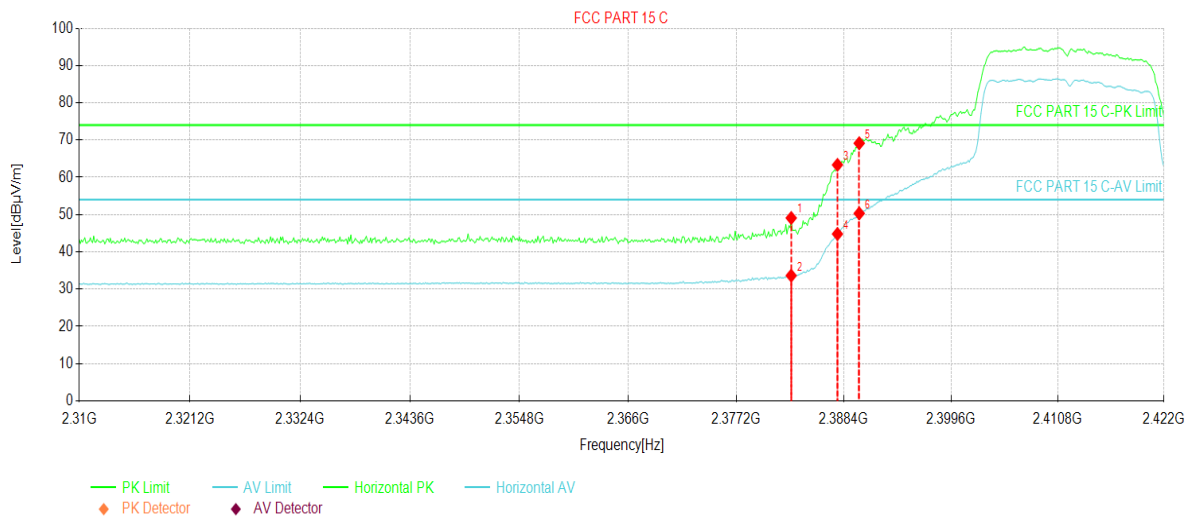


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2359.28	62.82	43.98	-18.84	74.00	30.02	PK	Vertical
2	2359.28	50.59	31.75	-18.84	54.00	22.25	AV	Vertical
3	2387.84	77.30	58.48	-18.82	74.00	15.52	PK	Vertical
4	2387.84	59.67	40.85	-18.82	54.00	13.15	AV	Vertical
5	2390.00	85.07	66.25	-18.82	74.00	7.75	PK	Vertical
6	2390.00	64.98	46.16	-18.82	54.00	7.84	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

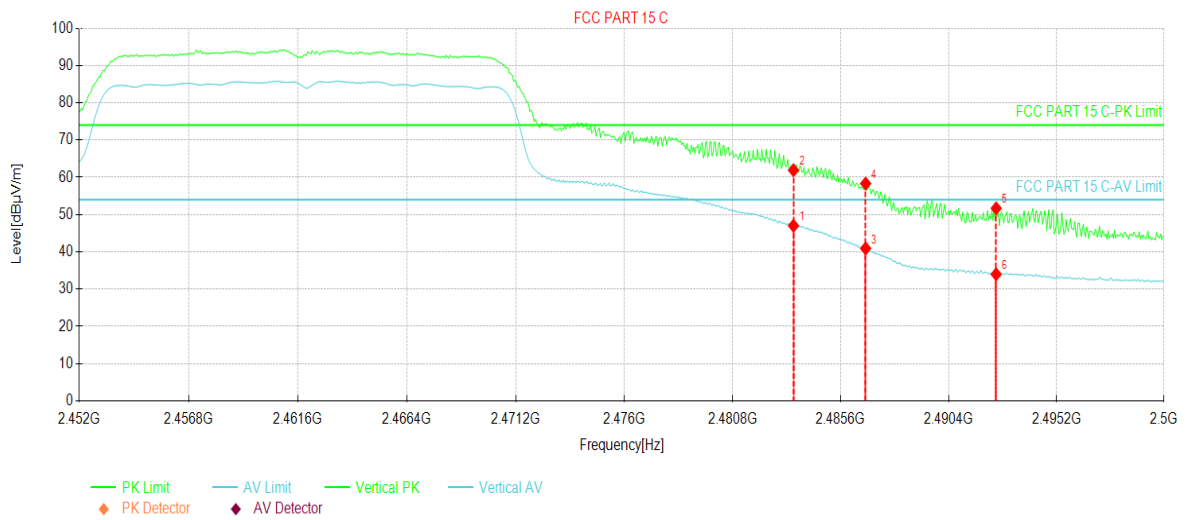


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2382.91	67.92	49.09	-18.83	74.00	24.91	PK	Horizontal
2	2382.91	52.44	33.61	-18.83	54.00	20.39	AV	Horizontal
3	2387.72	82.17	63.35	-18.82	74.00	10.65	PK	Horizontal
4	2387.72	63.61	44.79	-18.82	54.00	9.21	AV	Horizontal
5	2390.00	87.96	69.14	-18.82	74.00	4.86	PK	Horizontal
6	2390.00	69.13	50.31	-18.82	54.00	3.69	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

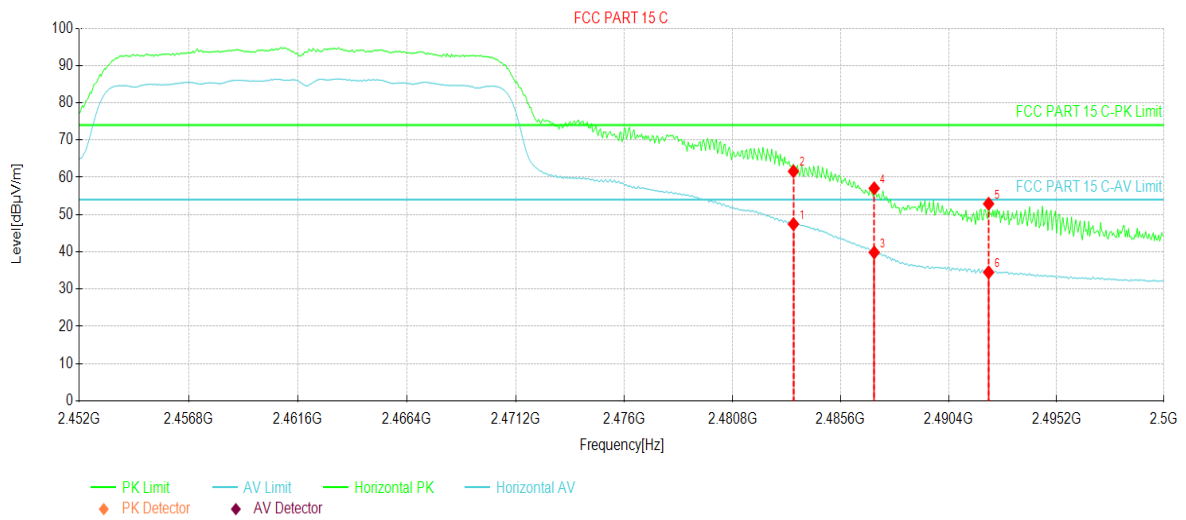


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	65.67	47.00	-18.67	54.00	7.00	AV	Vertical
2	2483.50	80.59	61.92	-18.67	74.00	12.08	PK	Vertical
3	2486.70	59.58	40.91	-18.67	54.00	13.09	AV	Vertical
4	2486.70	76.99	58.32	-18.67	74.00	15.68	PK	Vertical
5	2492.51	70.37	51.69	-18.68	74.00	22.31	PK	Vertical
6	2492.51	52.66	33.98	-18.68	54.00	20.02	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

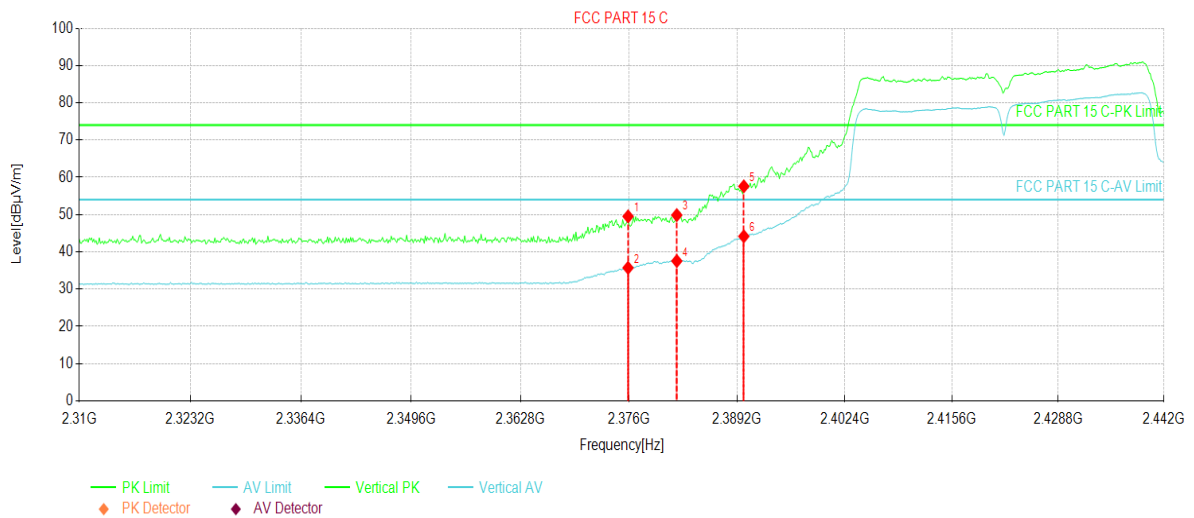


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	66.10	47.43	-18.67	54.00	6.57	AV	Horizontal
2	2483.50	80.28	61.61	-18.67	74.00	12.39	PK	Horizontal
3	2487.08	58.50	39.83	-18.67	54.00	14.17	AV	Horizontal
4	2487.08	75.71	57.04	-18.67	74.00	16.96	PK	Horizontal
5	2492.17	71.58	52.90	-18.68	74.00	21.10	PK	Horizontal
6	2492.17	53.19	34.51	-18.68	54.00	19.49	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

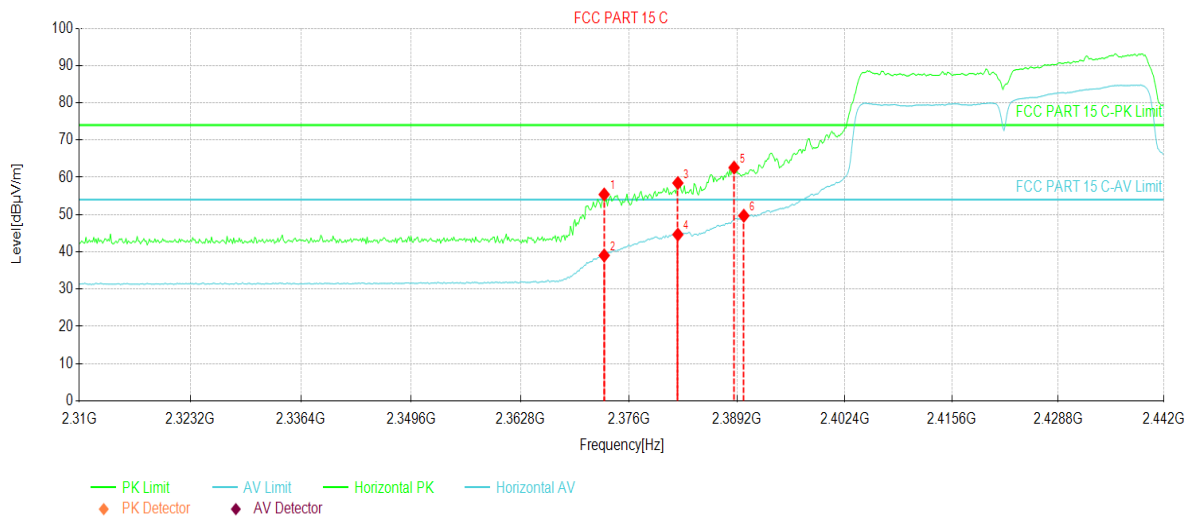


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2375.86	68.34	49.51	-18.83	74.00	24.49	PK	Vertical
2	2375.86	54.53	35.70	-18.83	54.00	18.30	AV	Vertical
3	2381.80	68.68	49.85	-18.83	74.00	24.15	PK	Vertical
4	2381.80	56.36	37.53	-18.83	54.00	16.47	AV	Vertical
5	2390.00	76.41	57.59	-18.82	74.00	16.41	PK	Vertical
6	2390.00	62.99	44.17	-18.82	54.00	9.83	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

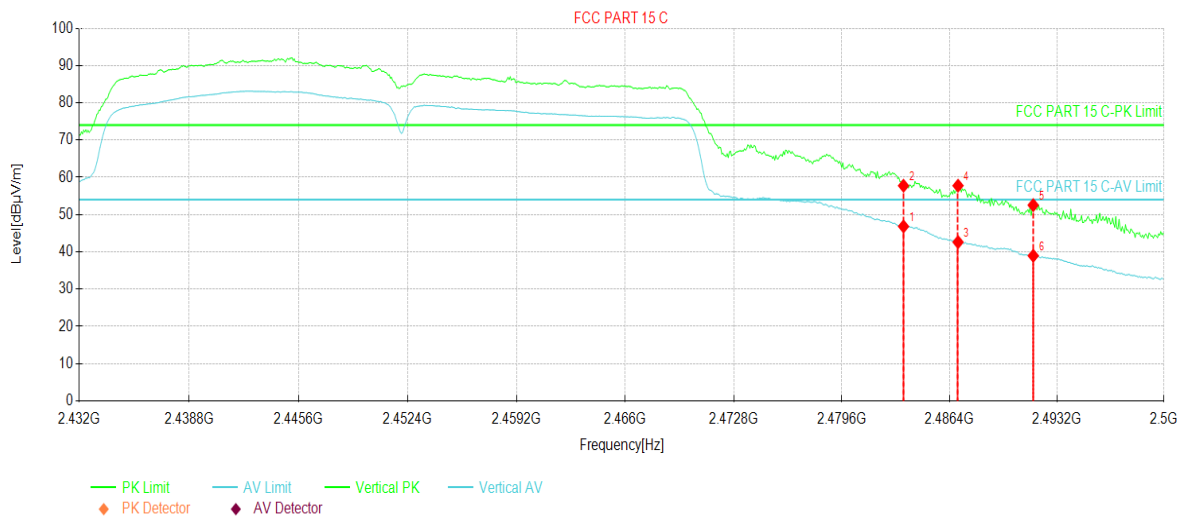


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2372.96	74.23	55.40	-18.83	74.00	18.60	PK	Horizontal
2	2372.96	57.85	39.02	-18.83	54.00	14.98	AV	Horizontal
3	2381.94	77.29	58.46	-18.83	74.00	15.54	PK	Horizontal
4	2381.94	63.47	44.64	-18.83	54.00	9.36	AV	Horizontal
5	2388.80	81.42	62.60	-18.82	74.00	11.40	PK	Horizontal
6	2390.00	68.51	49.69	-18.82	54.00	4.31	AV	Horizontal

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

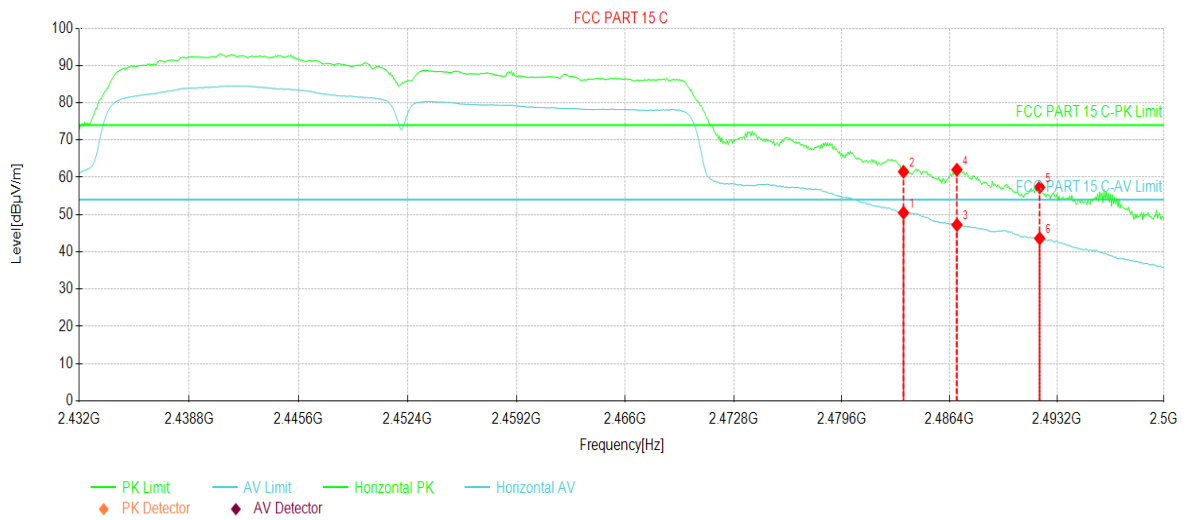


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	65.49	46.82	-18.67	54.00	7.18	AV	Vertical
2	2483.50	76.41	57.74	-18.67	74.00	16.26	PK	Vertical
3	2486.94	61.28	42.61	-18.67	54.00	11.39	AV	Vertical
4	2486.94	76.42	57.75	-18.67	74.00	16.25	PK	Vertical
5	2491.70	71.21	52.53	-18.68	74.00	21.47	PK	Vertical
6	2491.70	57.63	38.95	-18.68	54.00	15.05	AV	Vertical

Remark:

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

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Robin	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	69.16	50.49	-18.67	54.00	3.51	AV	Horizontal
2	2483.50	80.17	61.50	-18.67	74.00	12.50	PK	Horizontal
3	2486.87	65.89	47.22	-18.67	54.00	6.78	AV	Horizontal
4	2486.87	80.71	62.04	-18.67	74.00	11.96	PK	Horizontal
5	2492.11	76.02	57.34	-18.68	74.00	16.66	PK	Horizontal
6	2492.11	62.28	43.60	-18.68	54.00	10.40	AV	Horizontal

Remark:

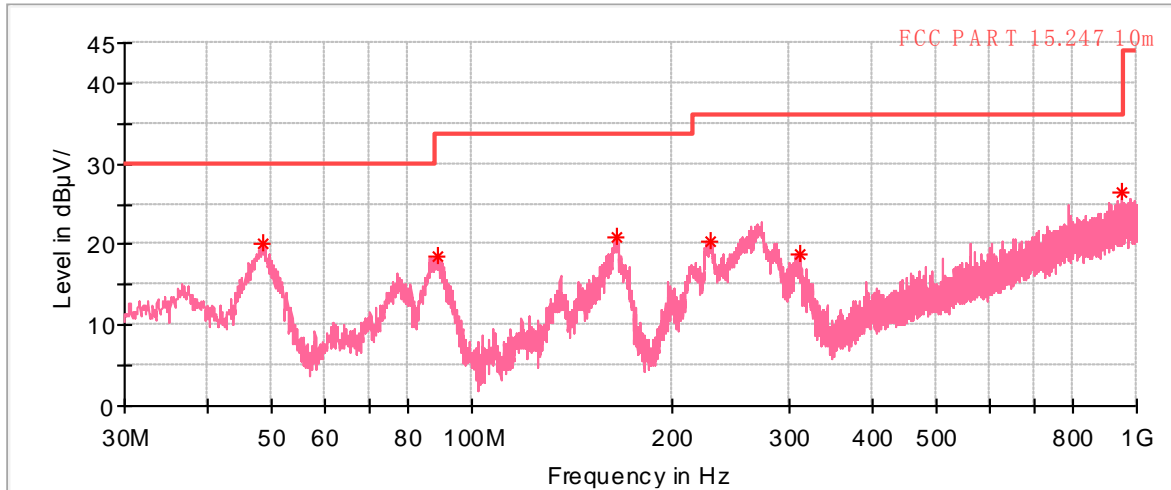
1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

5.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Asher	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

Full Spectrum



— Preview Result 1V-PK+ * Critical_Freqs PK+
— FCC PART 15.247 10m ◆ Final_Result QPK

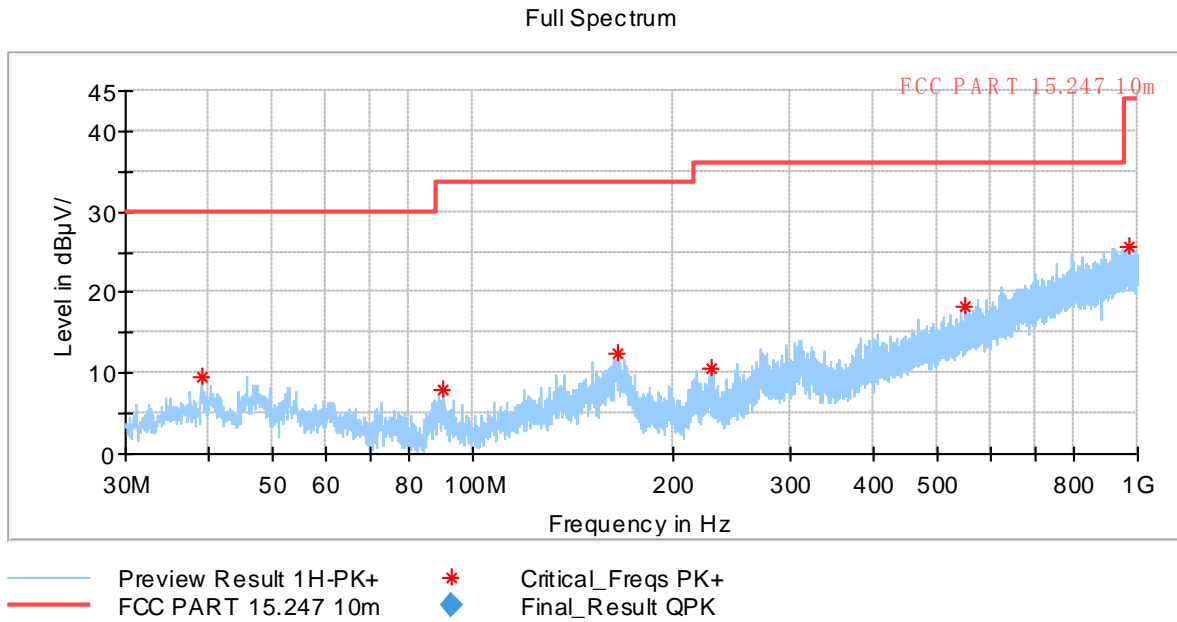
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
311.154500	18.83	36.00	17.17	100.0	V	73.0	-14.6	15:05:06 - 2024/1/3
165.606000	20.91	33.50	12.59	100.0	V	216.0	-14.9	15:05:06 - 2024/1/3
88.588000	18.56	33.50	14.94	100.0	V	220.0	-20.0	15:05:06 - 2024/1/3
48.381500	20.13	30.00	9.87	100.0	V	227.0	-16.4	15:05:06 - 2024/1/3
950.336000	26.59	36.00	9.41	100.0	V	266.0	0.1	15:05:06 - 2024/1/3
228.947000	20.50	36.00	15.50	100.0	V	344.0	-17.7	15:05:06 - 2024/1/3

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss - Pre-amplifier Factor)

Product Name:	Smartphone	Product Model:	SKY D63
Test By:	Asher	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
551.326500	18.25	36.00	17.75	100.0	H	104.0	-7.7	15:10:05 - 2024/1/3
973.082500	25.55	44.00	18.45	100.0	H	108.0	0.2	15:10:05 - 2024/1/3
165.218000	12.45	33.50	21.05	100.0	H	116.0	-14.9	15:10:05 - 2024/1/3
227.637500	10.62	36.00	25.38	100.0	H	145.0	-17.7	15:10:05 - 2024/1/3
90.382500	7.84	33.50	25.66	100.0	H	204.0	-19.9	15:10:05 - 2024/1/3
39.069500	9.52	30.00	20.48	100.0	H	225.0	-16.0	15:10:05 - 2024/1/3

Remark:

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

Above 1GHz

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	59.72	-7.74	51.98	74.00	22.02	Vertical
4824.00	62.39	-7.74	54.65	74.00	19.35	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.63	-7.74	43.89	54.00	10.11	Vertical
4824.00	53.15	-7.74	45.41	54.00	8.59	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	59.49	-7.79	51.70	74.00	22.30	Vertical
4874.00	62.81	-7.79	55.02	74.00	18.98	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.78	-7.79	43.99	54.00	10.01	Vertical
4874.00	53.55	-7.79	45.76	54.00	8.24	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	59.26	-7.78	51.48	74.00	22.52	Vertical
4924.00	62.01	-7.78	54.23	74.00	19.77	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	51.26	-7.78	43.48	54.00	10.52	Vertical
4924.00	52.89	-7.78	45.11	54.00	8.89	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.						

802.11g						
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	59.27	-7.74	51.53	74.00	22.47	Vertical
4824.00	62.23	-7.74	54.49	74.00	19.51	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.35	-7.74	43.61	54.00	10.39	Vertical
4824.00	52.82	-7.74	45.08	54.00	8.92	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	60.16	-7.79	52.37	74.00	21.63	Vertical
4874.00	62.42	-7.79	54.63	74.00	19.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.73	-7.79	43.94	54.00	10.06	Vertical
4874.00	53.08	-7.79	45.29	54.00	8.71	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	59.30	-7.78	51.52	74.00	22.48	Vertical
4924.00	62.49	-7.78	54.71	74.00	19.29	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	51.62	-7.78	43.84	54.00	10.16	Vertical
4924.00	53.07	-7.78	45.29	54.00	8.71	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.						

802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4824.00	59.37	-7.74	51.63	74.00	22.37	Vertical
4824.00	62.81	-7.74	55.07	74.00	18.93	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4824.00	51.26	-7.74	43.52	54.00	10.48	Vertical
4824.00	53.31	-7.74	45.57	54.00	8.43	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4874.00	60.11	-7.79	52.32	74.00	21.68	Vertical
4874.00	62.75	-7.79	54.96	74.00	19.04	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4874.00	52.02	-7.79	44.23	54.00	9.77	Vertical
4874.00	53.17	-7.79	45.38	54.00	8.62	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4924.00	60.06	-7.78	52.28	74.00	21.72	Vertical
4924.00	61.93	-7.78	54.15	74.00	19.85	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB μ V)	Factor (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polarization
4924.00	51.46	-7.78	43.68	54.00	10.32	Vertical
4924.00	53.23	-7.78	45.45	54.00	8.55	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.						

802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	59.81	-7.79	52.02	74.00	21.98	Vertical
4844.00	62.45	-7.79	54.66	74.00	19.34	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	52.04	-7.79	44.25	54.00	9.75	Vertical
4844.00	52.92	-7.79	45.13	54.00	8.87	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	59.90	-7.79	52.11	74.00	21.89	Vertical
4874.00	62.27	-7.79	54.48	74.00	19.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.95	-7.79	44.16	54.00	9.84	Vertical
4874.00	52.93	-7.79	45.14	54.00	8.86	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	59.41	-7.75	51.66	74.00	22.34	Vertical
4904.00	62.73	-7.75	54.98	74.00	19.02	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	51.95	-7.75	44.20	54.00	9.80	Vertical
4904.00	52.79	-7.75	45.04	54.00	8.96	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.						

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