

# FCC RF Test Report

## (Bluetooth)

**Applicant:** Blackshark Technologies (Nanchang) Co., Ltd.  
**Address of Applicant:** Room 815-1, 8th floor, Block A, Huajiang Building, No. 1 Tsinghua Science Park

**Equipment Under Test (EUT)**

Product Name: 5G Digital Mobile Phone  
Model No.: SHARK KTUS-H0  
Trade Mark: BLACK SHARK

**FCC ID:** 2A2ZHKTUS-H0

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

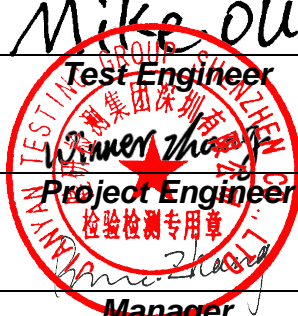
**Date of Sample Receipt:** 11 Mar., 2022  
**Date of Test:** 12 Mar., to 16 May, 2022  
**Date of Report Issued:** 02 Jun., 2022

**Test Result:** PASS

**Tested by:** Mike Ou **Date:** 02 Jun., 2022  
*Test Engineer*

**Reviewed by:** Winner Zhang **Date:** 02 Jun., 2022  
*Project Engineer*

**Approved by:** Winner Zhang **Date:** 02 Jun., 2022  
*Manager*



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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## 2 Version

Version No.	Date	Description
00	17 May, 2022	Original
01	02 Jun., 2022	Updated page 41~43

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## 4 General Information

### 4.1 Client Information

Applicant:	Blackshark Technologies (Nanchang) Co., Ltd.
Address:	Room 815-1, 8th floor, Block A, Huajiang Building, No. 1 Tsinghua Science Park
Manufacturer:	Blackshark Technologies (Nanchang) Co., Ltd.
Address:	Room 815-1, 8th floor, Block A, Huajiang Building, No. 1 Tsinghua Science Park

### 4.2 General Description of E.U.T.

Product Name:	5G Digital Mobile Phone
Model No.:	SHARK KTUS-H0
Operation Frequency:	2402 MHz - 2480 MHz
Transfer Rate:	1/2/3 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology:	FHSS
Antenna Type:	Internal Antenna
Antenna Gain:	ANT5: -0.9 dBi (declare by applicant) ANT7: -1.0 dBi (declare by applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion polymer Battery DC7.78V, 2240mAh
AC Adapter:	Model: MDY-13-EG-1 Input: AC100-240V, 50/60Hz, 1.7A Normal Output: DC 5.0V, 3A Fast Output: DC 3.6-20V, 3-6A (120W Max)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Test Mode and Test Environment

Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode.
Hopping mode:	Keep the EUT in hopping mode.
<i>Remark: For AC power line conducted emission and radiated spurious emission, pre-scan GFSK, <math>\pi/4</math>-DQPSK, 8DPSK modulation mode and ANT5/7, found GFSK modulation and ANT 5 was worse case mode. The report only reflects the test data of worst mode.</i>	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

### 4.4 Description of Support Units

The EUT has been tested as an independent unit.
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### 4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
<i>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.</i>	

### 4.6 Additions to, Deviations, or Exclusions From the Method

No
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### 4.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b> 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.</li> <li>● <b>ISED – CAB identifier.: CN0021</b> 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.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b> 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.</li> <li>● <b>A2LA - Registration No.: 4346.01</b> 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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul>
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### 4.8 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: <a href="http://jyt.lets.com">http://jyt.lets.com</a></p>
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## 4.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Broadband Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2021	04-06-2022
				04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	10-21-2021	10-20-2022
RF Switch	TOP PRECISION	RSU0301	WXG003	02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023
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	10-25-2021	10-24-2022
Vector Signal Generator	Keysight	N5182B	WXJ006-6	10-25-2021	10-24-2022
Signal Generator	Keysight	N5173B	WXJ006-4	10-25-2021	10-24-2022
Wireless Connectivity Tester	Rohde & Schwarz	CMW270	WXJ008-7	10-25-2021	10-24-2022
DC Power Supply	Keysight	E3642A	WXJ025-2	10-25-2021	10-24-2022
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	10-25-2021	10-24-2022
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

## 5 Measurement Setup and Procedure

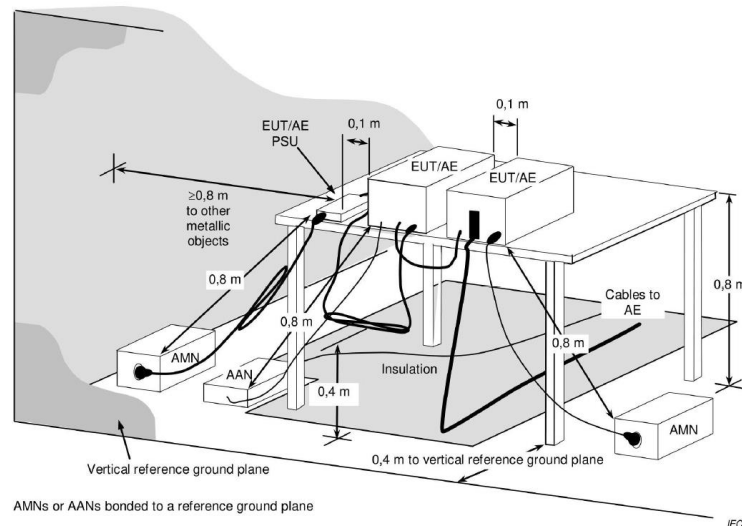
### 5.1 Test Channel

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:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	78	2480

### 5.2 Test Setup

#### 1) Conducted emission measurement:

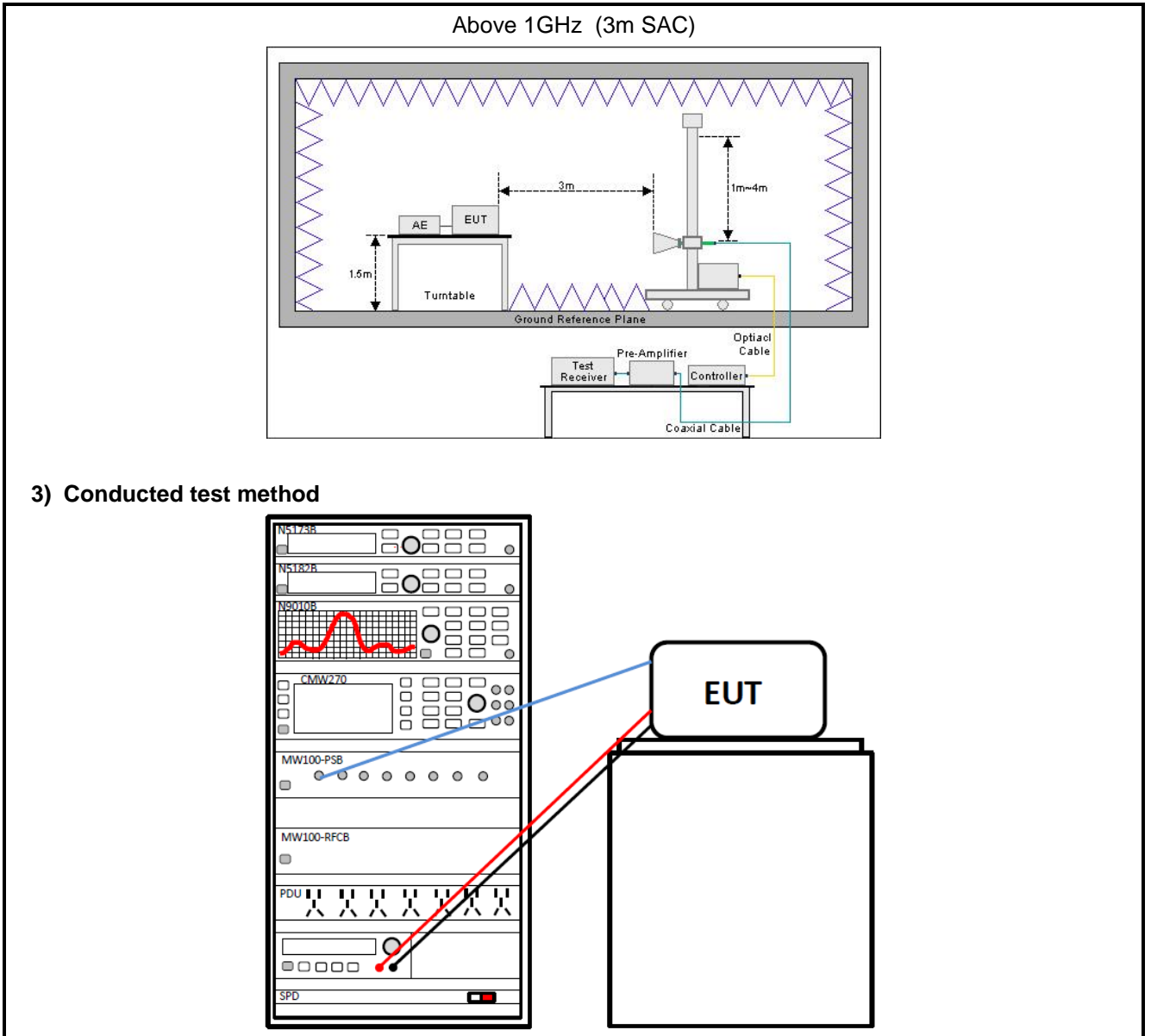


**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

#### 2) Radiated emission measurement:

Below 1GHz (3m SAC)







### 5.3 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> </ol>
Radiated emission	<p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; 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.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; 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.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol>
Conducted test method	<ol style="list-style-type: none"> <li>The Bluetooth antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>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.</li> </ol>

## 6 Test Results

### 6.1 Summary

#### 6.1.1 Clause and data summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
Conducted Output Power	15.247 (b)(1)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
Hopping Channel Number	5.247 (a)(1)(iii)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
Dwell Time	15.247 (a)(1)(iii)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix – BT-ANT5 Appendix – BT-ANT7	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 6.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 6.5	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).			
<b>Test Method:</b>	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

### 6.1.2 Test Limit

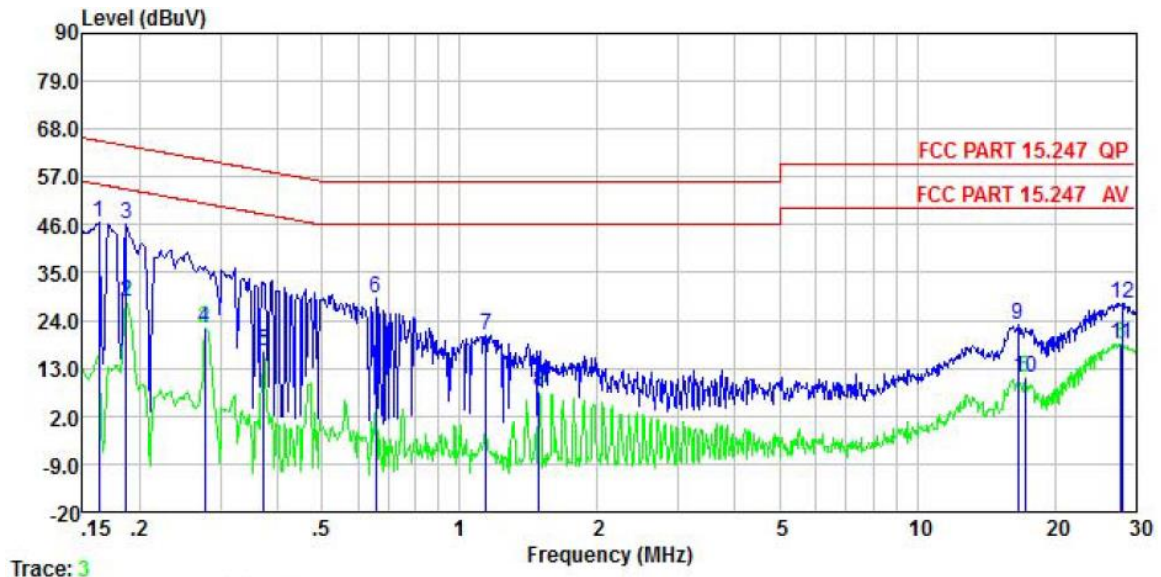
Test items	Limit																														
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 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><small>Note 1: The limit level in dB<math>\mu</math>V decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</small></p>	Frequency (MHz)	Limit (dB $\mu$ 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 $\mu$ V)																														
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0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.																														
20dB Occupied Bandwidth	Within authorization band																														
Carrier Frequencies Separation	a) 0.025MHz or the 20dB bandwidth (whichever is greater). b) 0.025MHz or two-thirds of the 20dB bandwidth (whichever is greater).																														
Hopping Channel Number	At least 15 channels.																														
Dwell Time	Not be greater than 0.4 seconds.																														
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 (dB<math>\mu</math>V/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><small>Note: The more stringent limit applies at transition frequencies.</small></p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="2">Limit (dB<math>\mu</math>V/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><small>Note: The measurement bandwidth shall be 1 MHz or greater.</small></p>	Frequency (MHz)	Limit (dB $\mu$ 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 $\mu$ V/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dB $\mu$ V/m)		Detector																												
	@ 3m	@ 10m																													
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88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
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	Average	Peake																													
Above 1 GHz	54.0	74.0																													

## 6.2 Antenna Requirement

<b>Standard requirement:</b>	FCC Part 15 C Section 15.203 & 247(b)
<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:            (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.</p>	
<b>E.U.T Antenna:</b>	
<p>The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the ANT 5 is -0.9 dBi and ANT 7 is -1.0 dBi. See product internal photos for details.</p>	

### 6.3 AC Power Line Conducted Emission

Product name:	5G Digital Mobile Phone	Product model:	SHARK KTUS-H0
Test by:	Mike	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

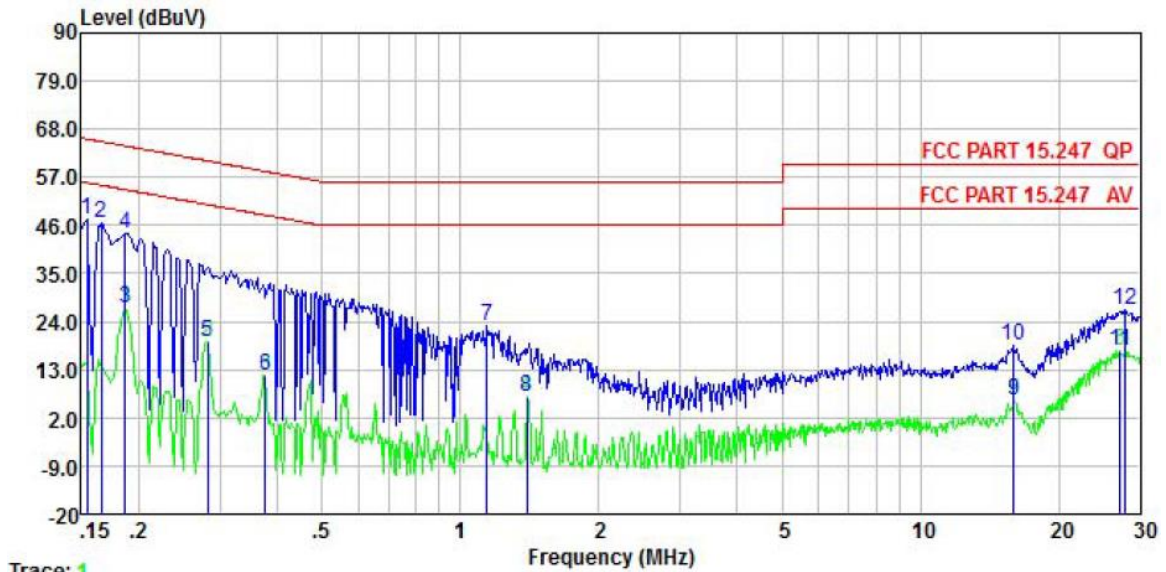


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	46.61	0.04	0.01	46.66	65.34	-18.68	QP
2	0.186	28.37	0.04	0.02	28.43	54.20	-25.77	Average
3	0.186	46.02	0.04	0.02	46.08	64.20	-18.12	QP
4	0.277	22.18	0.04	0.02	22.24	50.90	-28.66	Average
5	0.373	16.83	0.04	0.03	16.90	48.43	-31.53	Average
6	0.654	29.09	0.04	0.03	29.16	56.00	-26.84	QP
7	1.141	20.59	0.05	0.08	20.72	56.00	-35.28	QP
8	1.487	7.44	0.06	0.14	7.64	46.00	-38.36	Average
9	16.573	22.38	0.29	0.16	22.83	60.00	-37.17	QP
10	17.199	10.29	0.29	0.15	10.73	50.00	-39.27	Average
11	27.855	17.92	0.39	0.19	18.50	50.00	-31.50	Average
12	28.003	27.22	0.39	0.19	27.80	60.00	-32.20	QP

**Remark:**

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

<b>Product name:</b>	5G Digital Mobile Phone	<b>Product model:</b>	SHARK KTUS-H0
<b>Test by:</b>	Mike	<b>Test mode:</b>	BT Tx mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 1

	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	47.26	0.05	0.01	47.32	65.78	-18.46	QP
2	0.166	46.33	0.05	0.01	46.39	65.16	-18.77	QP
3	0.186	26.87	0.04	0.02	26.93	54.20	-27.27	Average
4	0.186	44.09	0.04	0.02	44.15	64.20	-20.05	QP
5	0.282	19.49	0.04	0.02	19.55	50.76	-31.21	Average
6	0.377	11.79	0.04	0.03	11.86	48.34	-36.48	Average
7	1.141	23.08	0.05	0.08	23.21	56.00	-32.79	QP
8	1.396	6.70	0.05	0.13	6.88	46.00	-39.12	Average
9	15.970	5.39	0.26	0.16	5.81	50.00	-44.19	Average
10	15.970	18.26	0.26	0.16	18.68	60.00	-41.32	QP
11	27.127	16.87	0.38	0.20	17.45	50.00	-32.55	Average
12	27.855	26.00	0.38	0.19	26.57	60.00	-33.43	QP

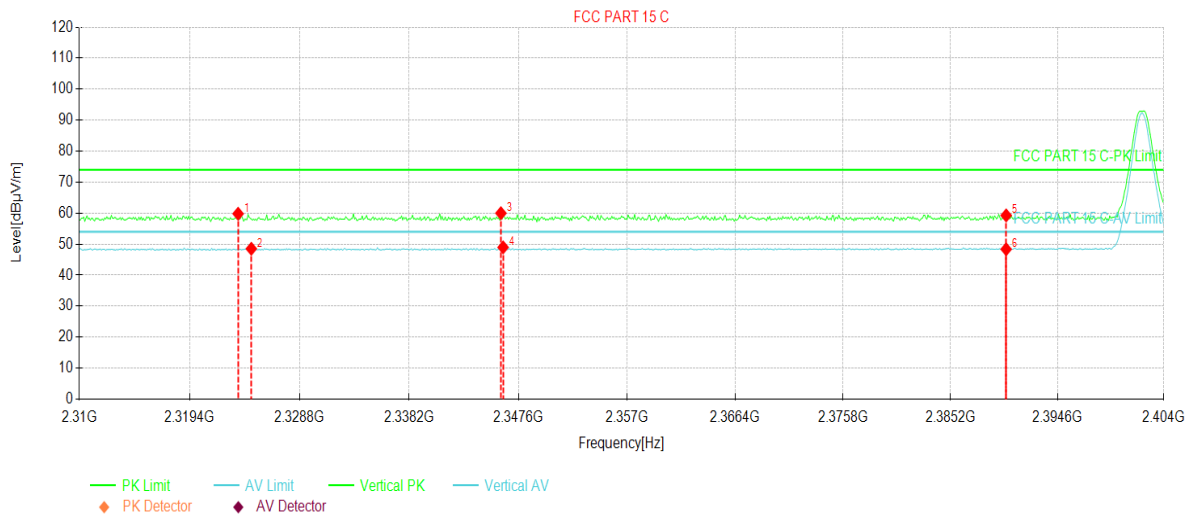
**Remark:**

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

## 6.4 Emissions in Restricted Frequency Bands

ANT5:

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		



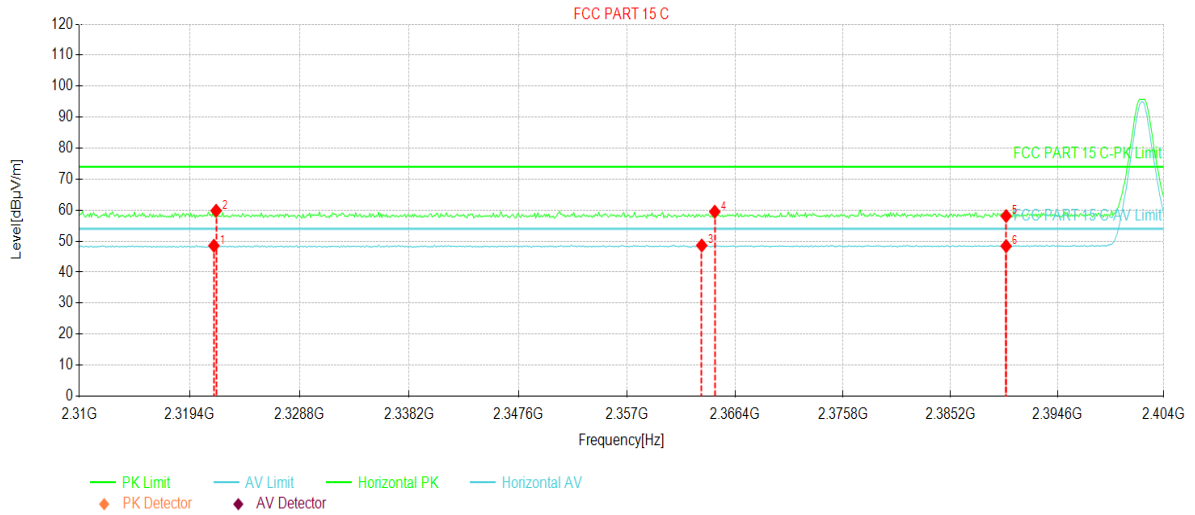
### Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2323.53	24.44	59.81	35.37	74.00	14.19	PK	Vertical
2	2324.66	13.14	48.52	35.38	54.00	5.48	AV	Vertical
3	2346.09	24.46	59.99	35.53	74.00	14.01	PK	Vertical
4	2346.28	13.43	48.96	35.53	54.00	5.04	AV	Vertical
5	2390.08	23.43	59.27	35.84	74.00	14.73	PK	Vertical
6	2390.08	12.52	48.36	35.84	54.00	5.64	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



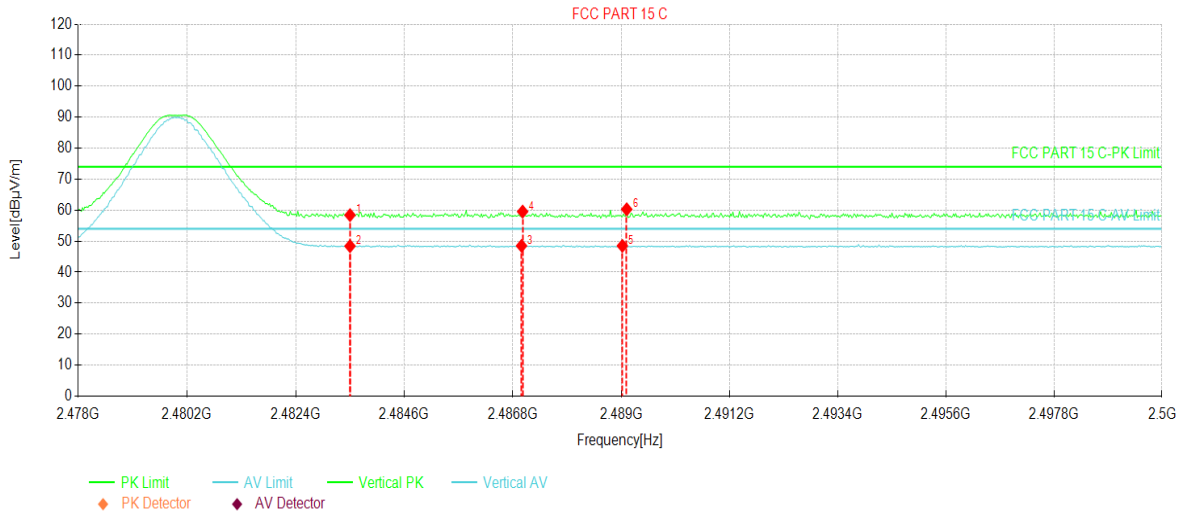
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2321.46	13.18	48.53	35.35	54.00	5.47	AV	Horizontal
2	2321.65	24.47	59.82	35.35	74.00	14.18	PK	Horizontal
3	2363.48	12.96	48.61	35.65	54.00	5.39	AV	Horizontal
4	2364.61	23.85	59.51	35.66	74.00	14.49	PK	Horizontal
5	2390.08	22.27	58.11	35.84	74.00	15.89	PK	Horizontal
6	2390.08	12.55	48.39	35.84	54.00	5.61	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.



<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

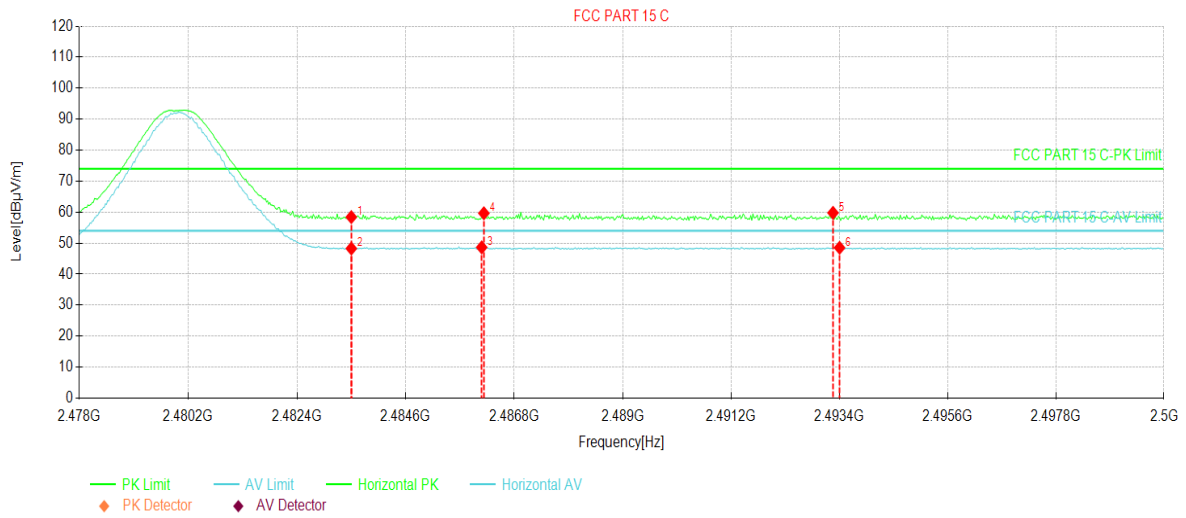


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.68	58.40	35.72	74.00	15.60	PK	Vertical
2	2483.50	12.67	48.39	35.72	54.00	5.61	AV	Vertical
3	2486.97	12.78	48.49	35.71	54.00	5.51	AV	Vertical
4	2486.99	23.82	59.53	35.71	74.00	14.47	PK	Vertical
5	2489.02	12.78	48.49	35.71	54.00	5.51	AV	Vertical
6	2489.11	24.57	60.28	35.71	74.00	13.72	PK	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



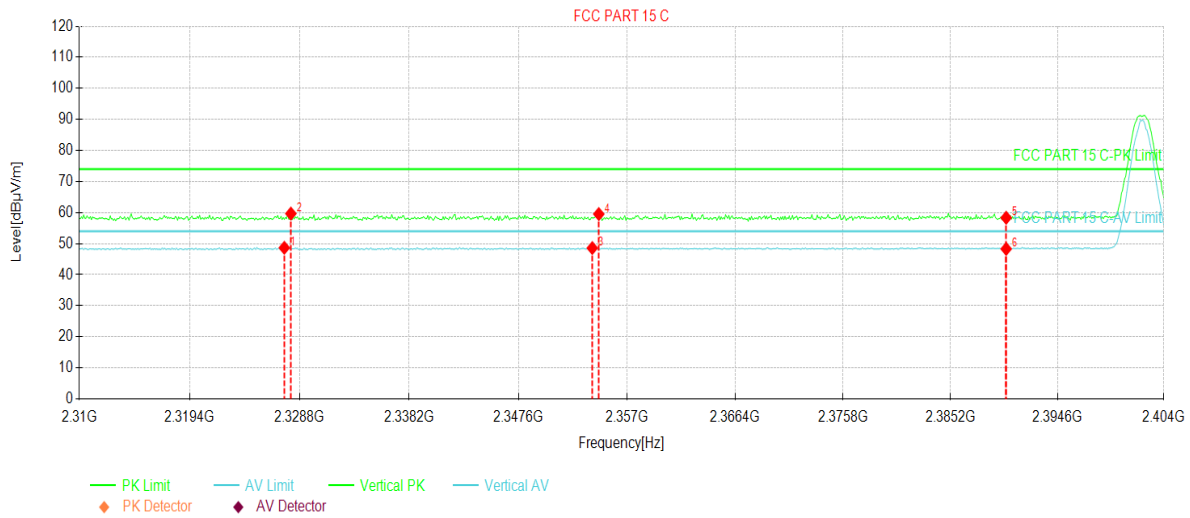
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.69	58.41	35.72	74.00	15.59	PK	Horizontal
2	2483.50	12.55	48.27	35.72	54.00	5.73	AV	Horizontal
3	2486.14	12.93	48.64	35.71	54.00	5.36	AV	Horizontal
4	2486.18	23.93	59.64	35.71	74.00	14.36	PK	Horizontal
5	2493.26	24.08	59.78	35.70	74.00	14.22	PK	Horizontal
6	2493.40	12.81	48.51	35.70	54.00	5.49	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.

$\pi/4$ -DQPSK mode

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		



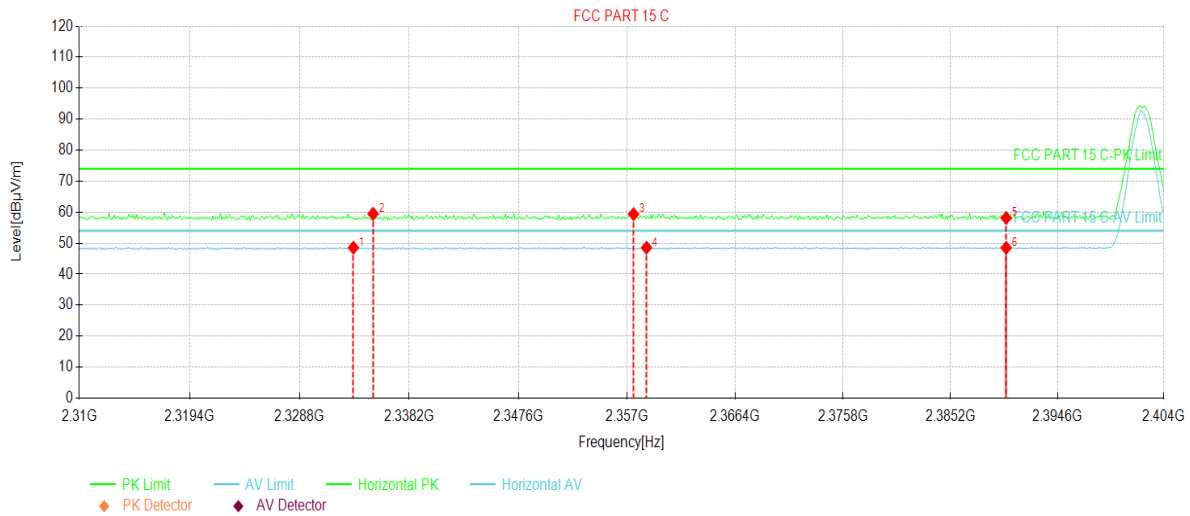
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2327.48	13.25	48.65	35.40	54.00	5.35	AV	Vertical
2	2328.04	24.26	59.66	35.40	74.00	14.34	PK	Vertical
3	2353.99	12.99	48.57	35.58	54.00	5.43	AV	Vertical
4	2354.55	23.93	59.52	35.59	74.00	14.48	PK	Vertical
5	2390.08	22.49	58.33	35.84	74.00	15.67	PK	Vertical
6	2390.08	12.45	48.29	35.84	54.00	5.71	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		

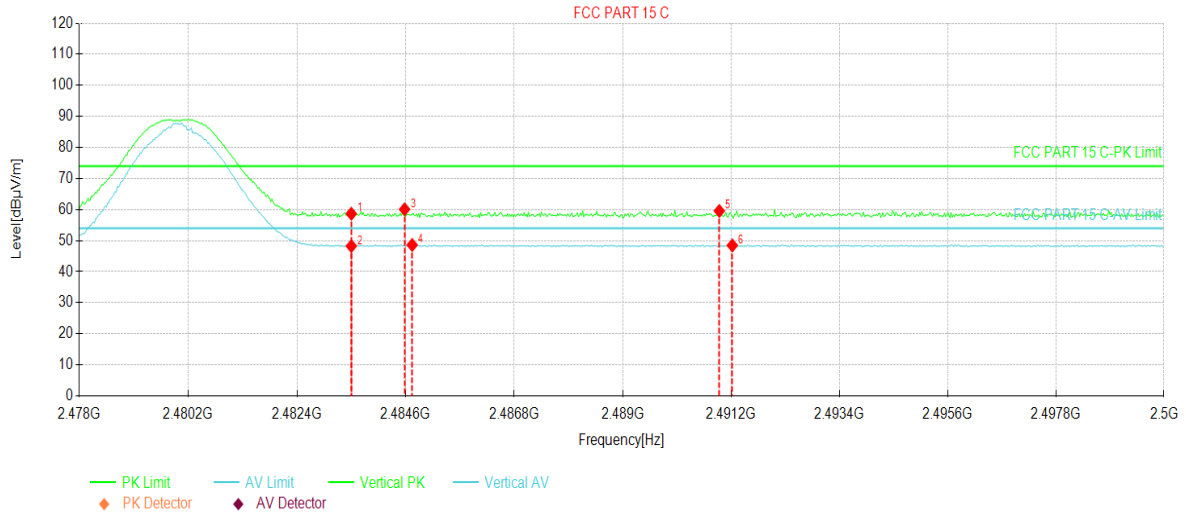


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2333.40	13.09	48.53	35.44	54.00	5.47	AV	Horizontal
2	2335.09	24.01	59.46	35.45	74.00	14.54	PK	Horizontal
3	2357.56	23.75	59.36	35.61	74.00	14.64	PK	Horizontal
4	2358.69	12.92	48.54	35.62	54.00	5.46	AV	Horizontal
5	2390.08	22.28	58.12	35.84	74.00	15.88	PK	Horizontal
6	2390.08	12.65	48.49	35.84	54.00	5.51	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

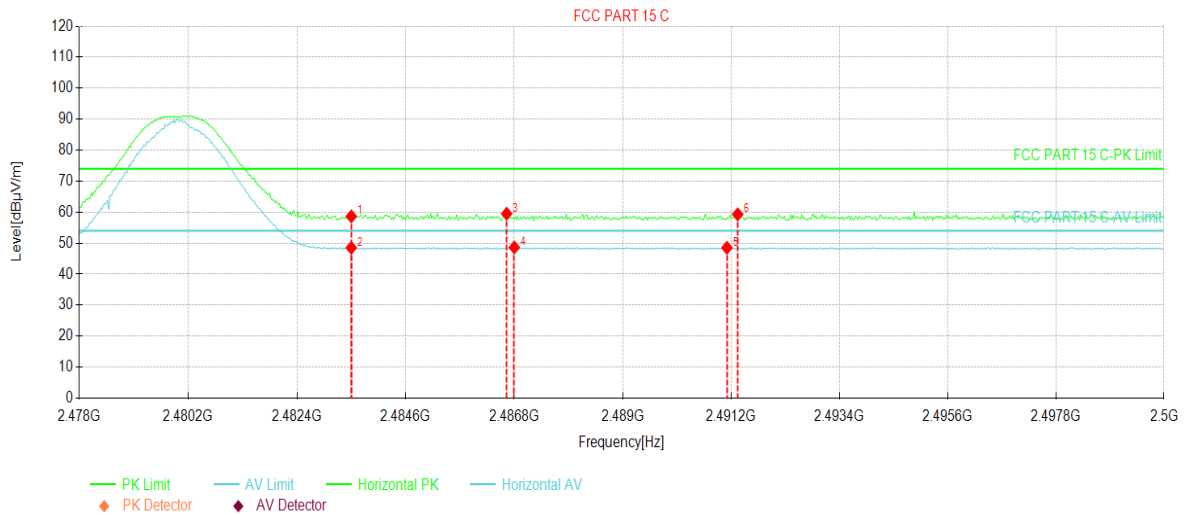


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.94	58.66	35.72	74.00	15.34	PK	Vertical
2	2483.50	12.52	48.24	35.72	54.00	5.76	AV	Vertical
3	2484.57	24.35	60.07	35.72	74.00	13.93	PK	Vertical
4	2484.73	12.87	48.59	35.72	54.00	5.41	AV	Vertical
5	2490.95	23.86	59.56	35.70	74.00	14.44	PK	Vertical
6	2491.22	12.74	48.44	35.70	54.00	5.56	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



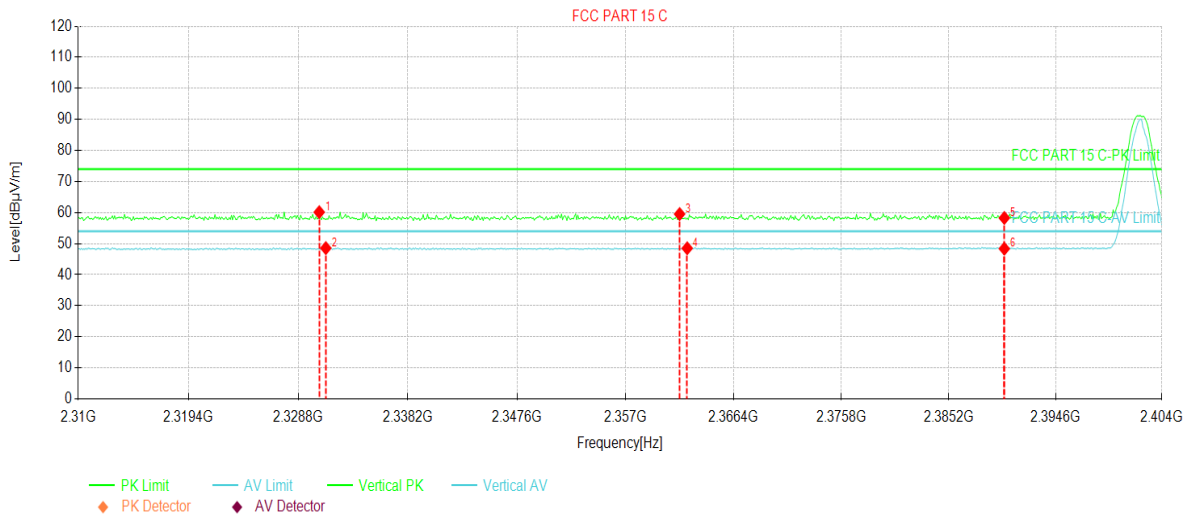
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.92	58.64	35.72	74.00	15.36	PK	Horizontal
2	2483.50	12.77	48.49	35.72	54.00	5.51	AV	Horizontal
3	2486.64	23.79	59.50	35.71	74.00	14.50	PK	Horizontal
4	2486.80	12.91	48.62	35.71	54.00	5.38	AV	Horizontal
5	2491.11	12.81	48.51	35.70	54.00	5.49	AV	Horizontal
6	2491.33	23.59	59.29	35.70	74.00	14.71	PK	Horizontal

**Remark:**

1. Level = Read level + Factor.

8DPSK mode

Product Name:	5G Digital Mobile Phone	Product Model:	SHARK KTUS-H0
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 7.78V		

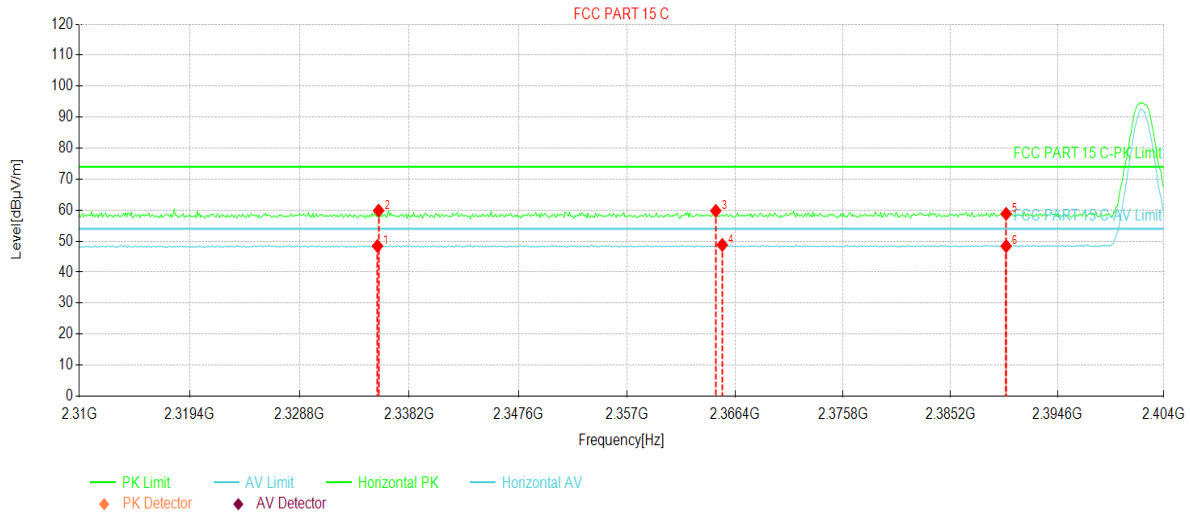


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2330.58	24.71	60.13	35.42	74.00	13.87	PK	Vertical
2	2331.15	13.13	48.55	35.42	54.00	5.45	AV	Vertical
3	2361.70	23.88	59.52	35.64	74.00	14.48	PK	Vertical
4	2362.35	12.86	48.50	35.64	54.00	5.50	AV	Vertical
5	2390.08	22.42	58.26	35.84	74.00	15.74	PK	Vertical
6	2390.08	12.51	48.35	35.84	54.00	5.65	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



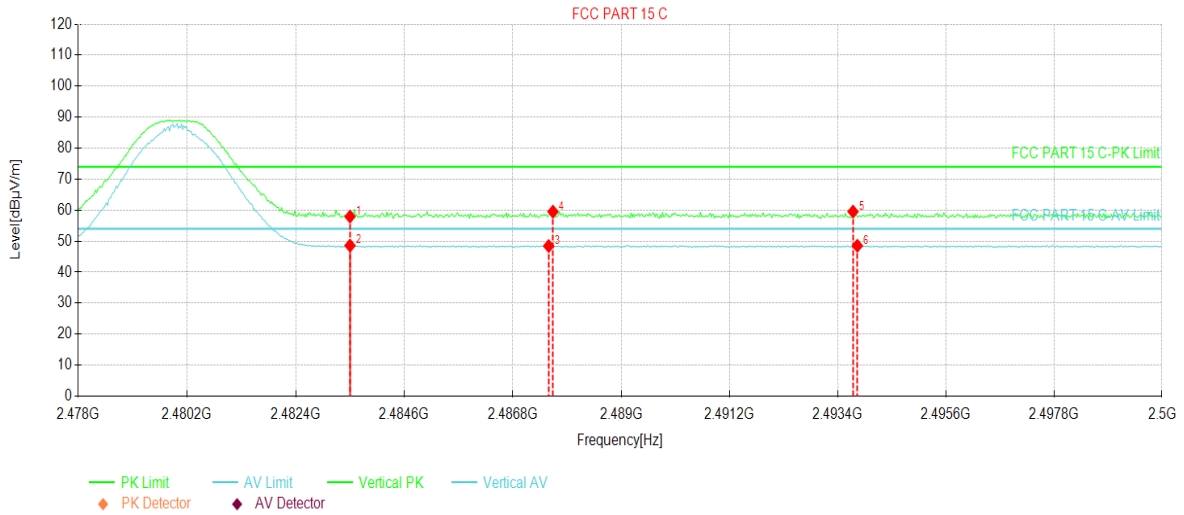
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2335.47	12.98	48.43	35.45	54.00	5.57	AV	Horizontal
2	2335.56	24.40	59.85	35.45	74.00	14.15	PK	Horizontal
3	2364.70	24.13	59.79	35.66	74.00	14.21	PK	Horizontal
4	2365.27	13.12	48.78	35.66	54.00	5.22	AV	Horizontal
5	2390.08	22.97	58.81	35.84	74.00	15.19	PK	Horizontal
6	2390.08	12.53	48.37	35.84	54.00	5.63	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.



<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

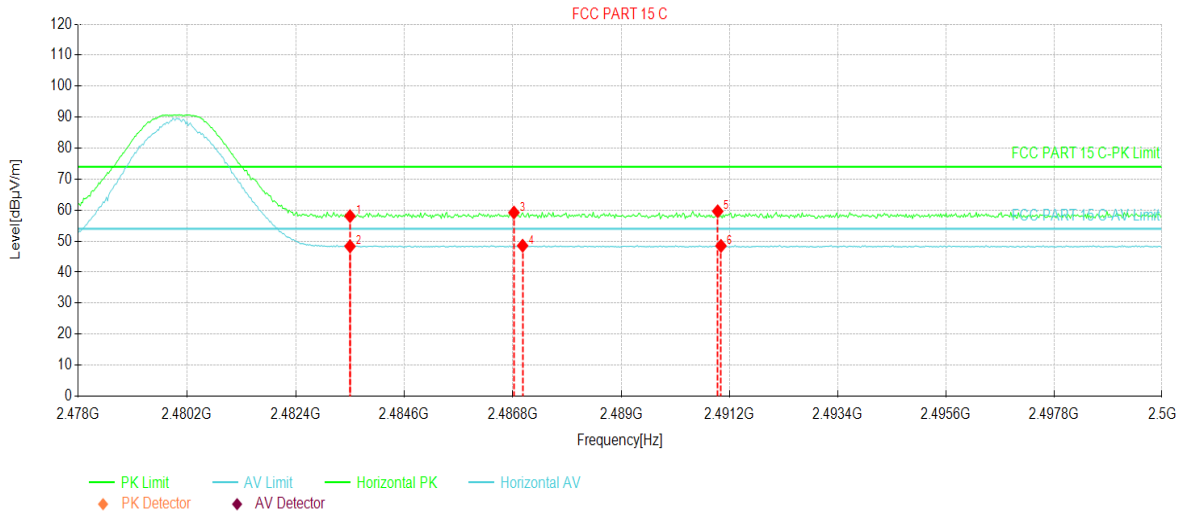


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.21	57.93	35.72	74.00	16.07	PK	Vertical
2	2483.50	12.86	48.58	35.72	54.00	5.42	AV	Vertical
3	2487.52	12.70	48.41	35.71	54.00	5.59	AV	Vertical
4	2487.61	23.80	59.51	35.71	74.00	14.49	PK	Vertical
5	2493.70	23.84	59.53	35.69	74.00	14.47	PK	Vertical
6	2493.79	12.82	48.51	35.69	54.00	5.49	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



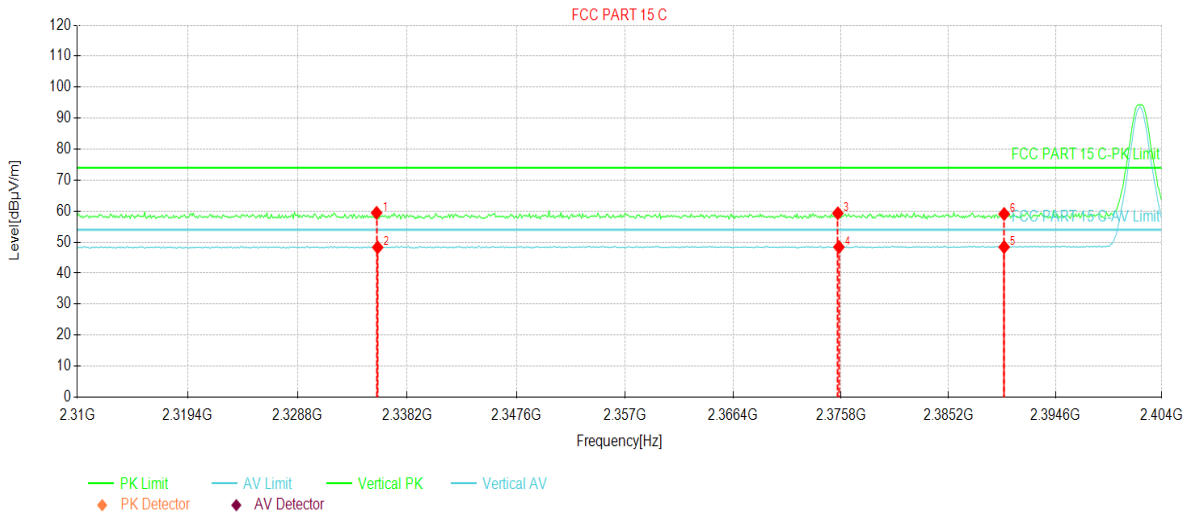
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.34	58.06	35.72	74.00	15.94	PK	Horizontal
2	2483.50	12.62	48.34	35.72	54.00	5.66	AV	Horizontal
3	2486.82	23.51	59.22	35.71	74.00	14.78	PK	Horizontal
4	2486.99	12.83	48.54	35.71	54.00	5.46	AV	Horizontal
5	2490.95	23.93	59.63	35.70	74.00	14.37	PK	Horizontal
6	2491.02	12.76	48.46	35.70	54.00	5.54	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.

ANT7:

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

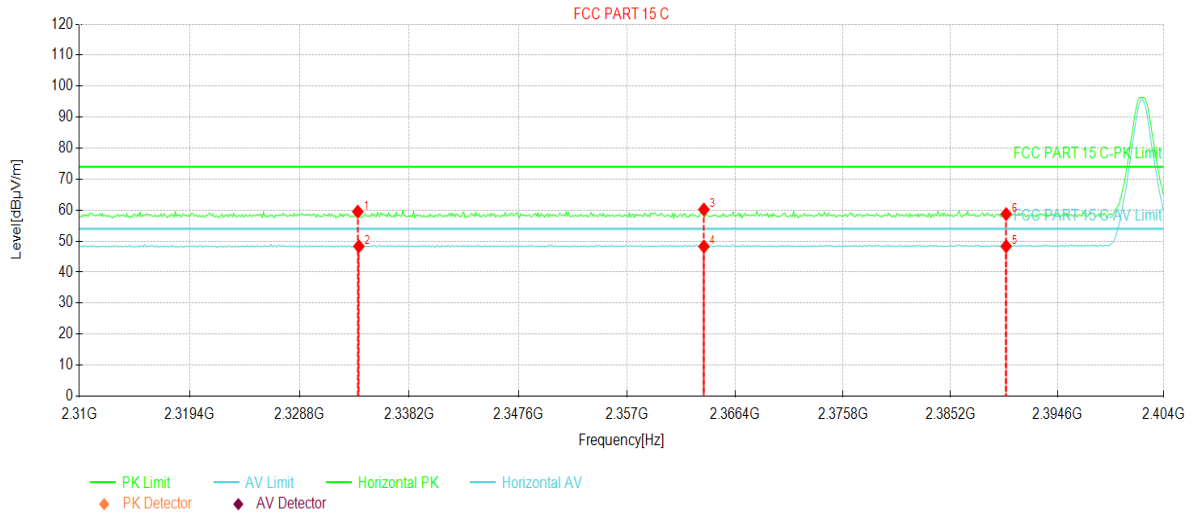


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2335.56	24.01	59.46	35.45	74.00	14.54	PK	Vertical
2	2335.66	12.85	48.30	35.45	54.00	5.70	AV	Vertical
3	2375.51	23.57	59.31	35.74	74.00	14.69	PK	Vertical
4	2375.61	12.67	48.41	35.74	54.00	5.59	AV	Vertical
5	2390.08	12.58	48.42	35.84	54.00	5.58	AV	Vertical
6	2390.08	23.25	59.09	35.84	74.00	14.91	PK	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		

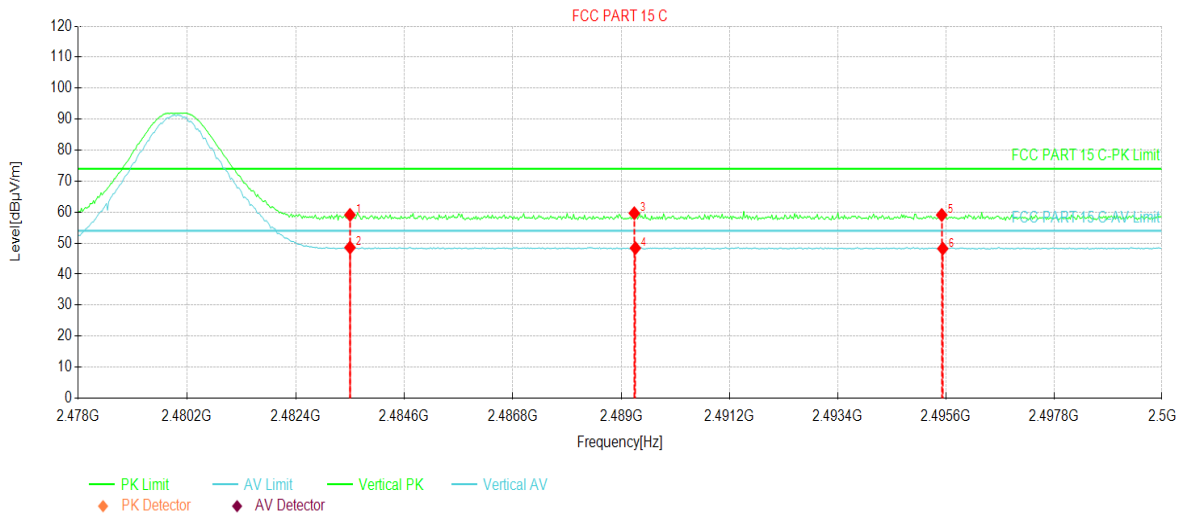


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2333.78	24.08	59.52	35.44	74.00	14.48	PK	Horizontal
2	2333.87	12.89	48.33	35.44	54.00	5.67	AV	Horizontal
3	2363.67	24.56	60.21	35.65	74.00	13.79	PK	Horizontal
4	2363.67	12.63	48.28	35.65	54.00	5.72	AV	Horizontal
5	2390.08	12.50	48.34	35.84	54.00	5.66	AV	Horizontal
6	2390.08	22.89	58.73	35.84	74.00	15.27	PK	Horizontal

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

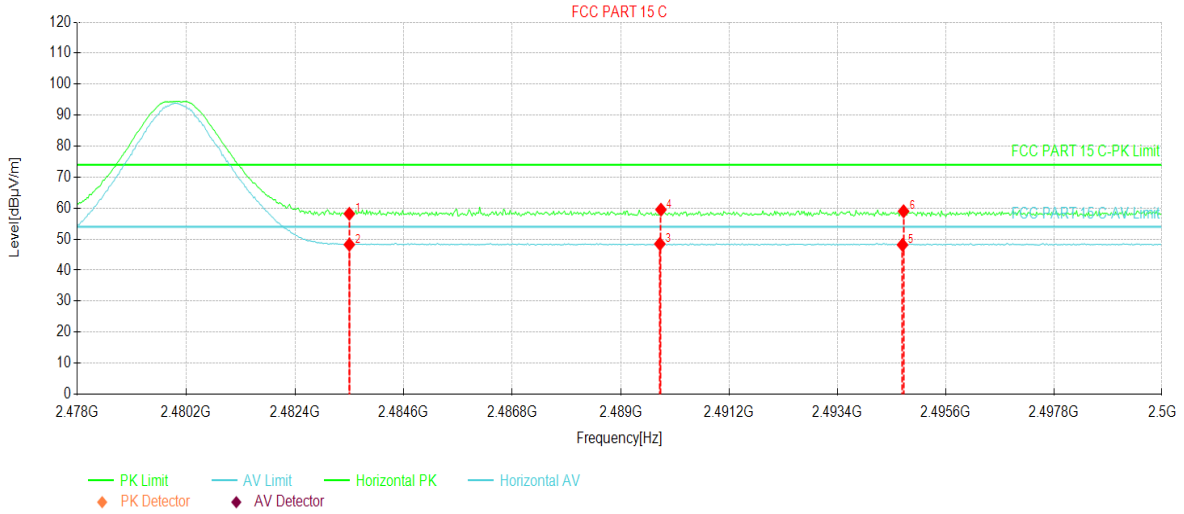


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.41	59.13	35.72	74.00	14.87	PK	Vertical
2	2483.50	12.85	48.57	35.72	54.00	5.43	AV	Vertical
3	2489.26	23.95	59.65	35.70	74.00	14.35	PK	Vertical
4	2489.28	12.71	48.41	35.70	54.00	5.59	AV	Vertical
5	2495.51	23.40	59.09	35.69	74.00	14.91	PK	Vertical
6	2495.53	12.54	48.23	35.69	54.00	5.77	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



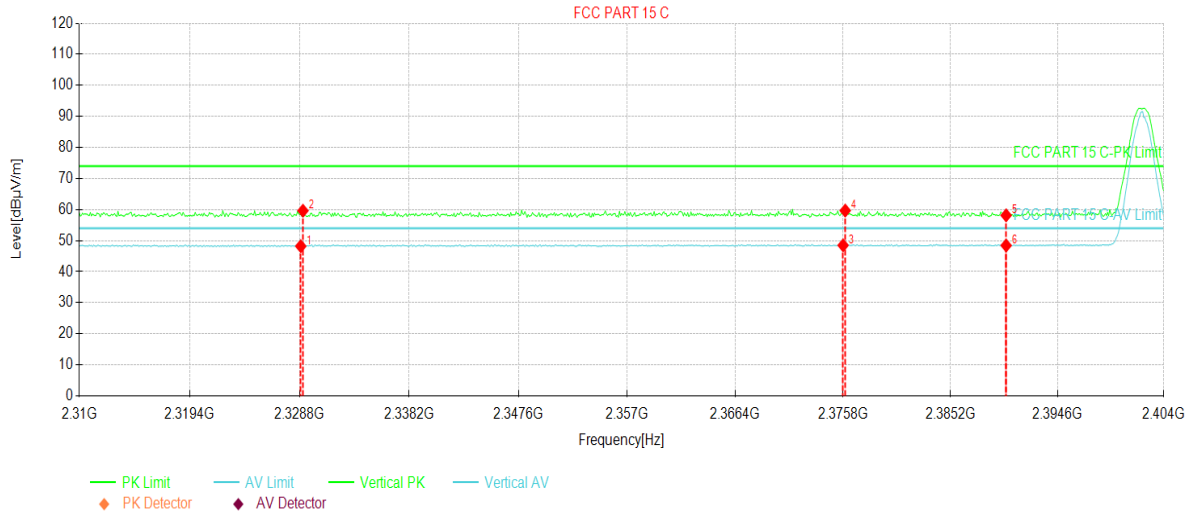
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.46	58.18	35.72	74.00	15.82	PK	Horizontal
2	2483.50	12.51	48.23	35.72	54.00	5.77	AV	Horizontal
3	2489.79	12.77	48.47	35.70	54.00	5.53	AV	Horizontal
4	2489.81	23.82	59.52	35.70	74.00	14.48	PK	Horizontal
5	2494.72	12.46	48.15	35.69	54.00	5.85	AV	Horizontal
6	2494.74	23.31	59.00	35.69	74.00	15.00	PK	Horizontal

**Remark:**

1. Level = Read level + Factor.

$\pi/4$ -DQPSK mode

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

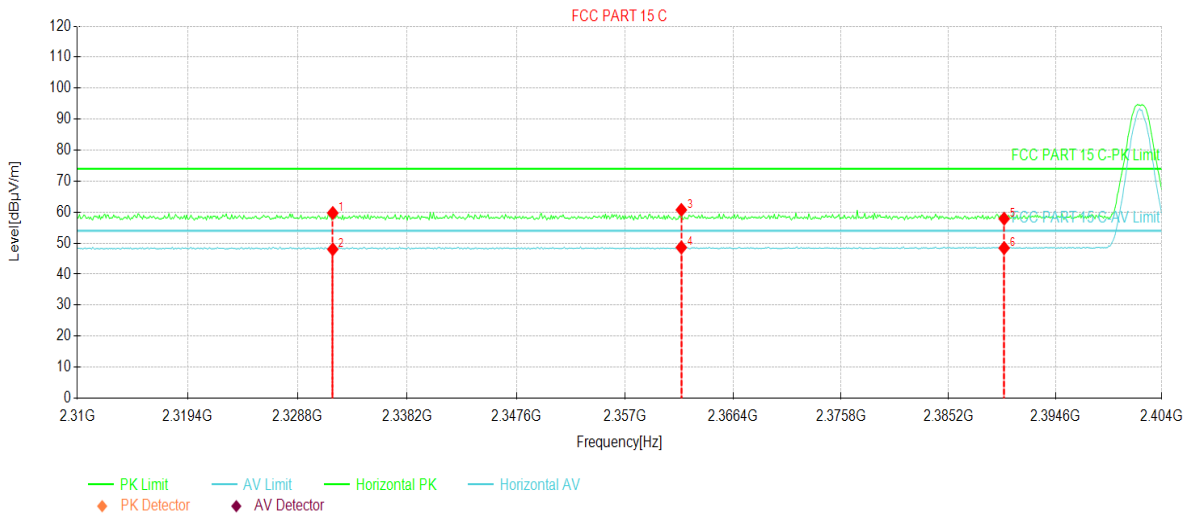


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2328.89	12.79	48.20	35.41	54.00	5.80	AV	Vertical
2	2329.08	24.22	59.63	35.41	74.00	14.37	PK	Vertical
3	2375.80	12.74	48.48	35.74	54.00	5.52	AV	Vertical
4	2375.98	23.93	59.67	35.74	74.00	14.33	PK	Vertical
5	2390.08	22.30	58.14	35.84	74.00	15.86	PK	Vertical
6	2390.08	12.59	48.43	35.84	54.00	5.57	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



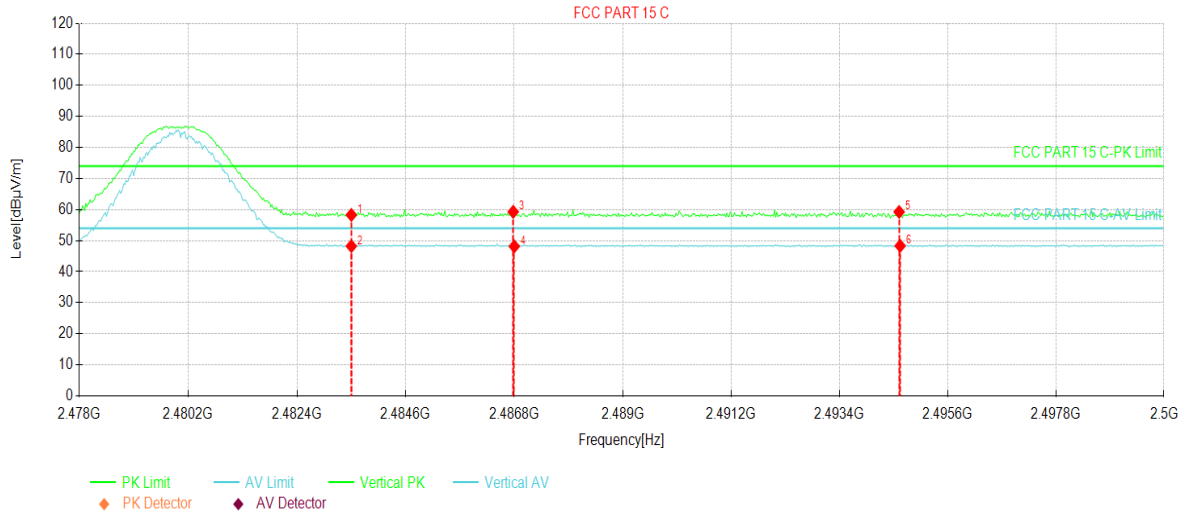
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2331.80	24.30	59.73	35.43	74.00	14.27	PK	Horizontal
2	2331.80	12.59	48.02	35.43	54.00	5.98	AV	Horizontal
3	2361.88	25.10	60.74	35.64	74.00	13.26	PK	Horizontal
4	2361.88	12.96	48.60	35.64	54.00	5.40	AV	Horizontal
5	2390.08	22.05	57.89	35.84	74.00	16.11	PK	Horizontal
6	2390.08	12.57	48.41	35.84	54.00	5.59	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.



<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

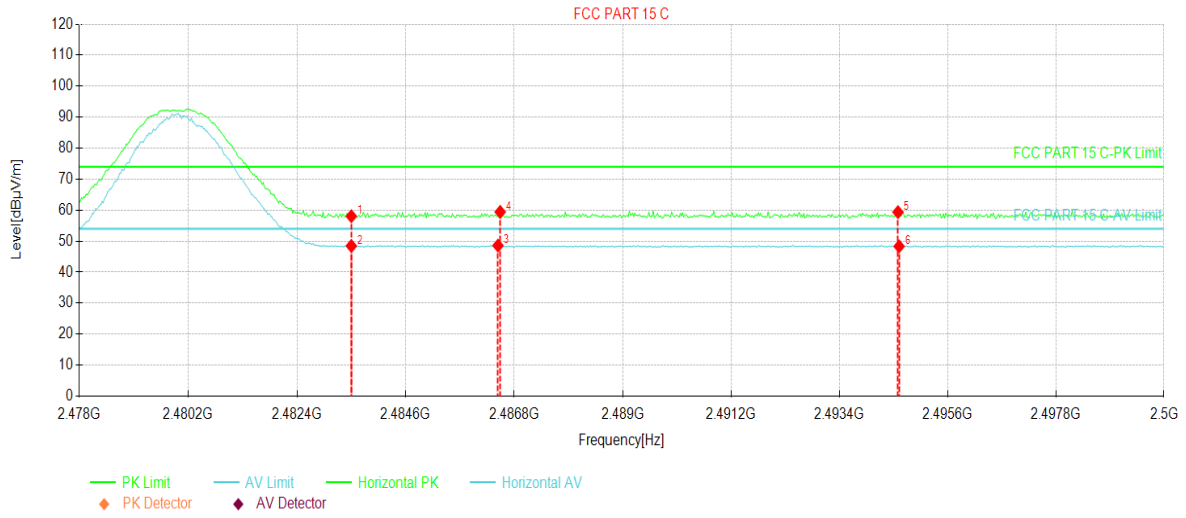


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.55	58.27	35.72	74.00	15.73	PK	Vertical
2	2483.50	12.50	48.22	35.72	54.00	5.78	AV	Vertical
3	2486.77	23.56	59.27	35.71	74.00	14.73	PK	Vertical
4	2486.80	12.44	48.15	35.71	54.00	5.85	AV	Vertical
5	2494.61	23.55	59.24	35.69	74.00	14.76	PK	Vertical
6	2494.63	12.62	48.31	35.69	54.00	5.69	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	2DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



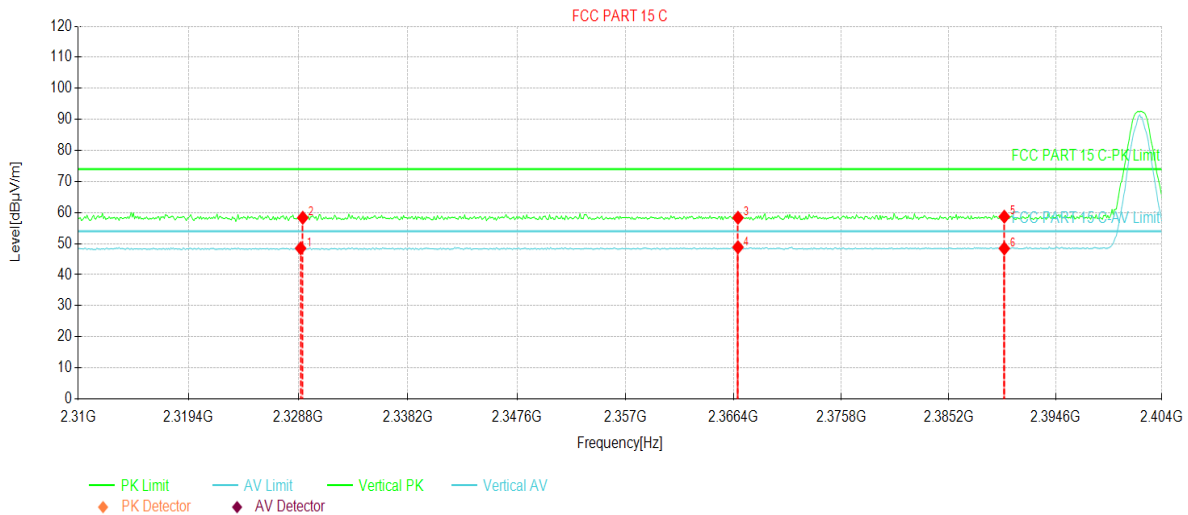
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.33	58.05	35.72	74.00	15.95	PK	Horizontal
2	2483.50	12.73	48.45	35.72	54.00	5.55	AV	Horizontal
3	2486.47	12.86	48.57	35.71	54.00	5.43	AV	Horizontal
4	2486.51	23.72	59.43	35.71	74.00	14.57	PK	Horizontal
5	2494.58	23.67	59.36	35.69	74.00	14.64	PK	Horizontal
6	2494.61	12.63	48.32	35.69	54.00	5.68	AV	Horizontal

**Remark:**

1. Level = Read level + Factor.

8DPSK mode

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

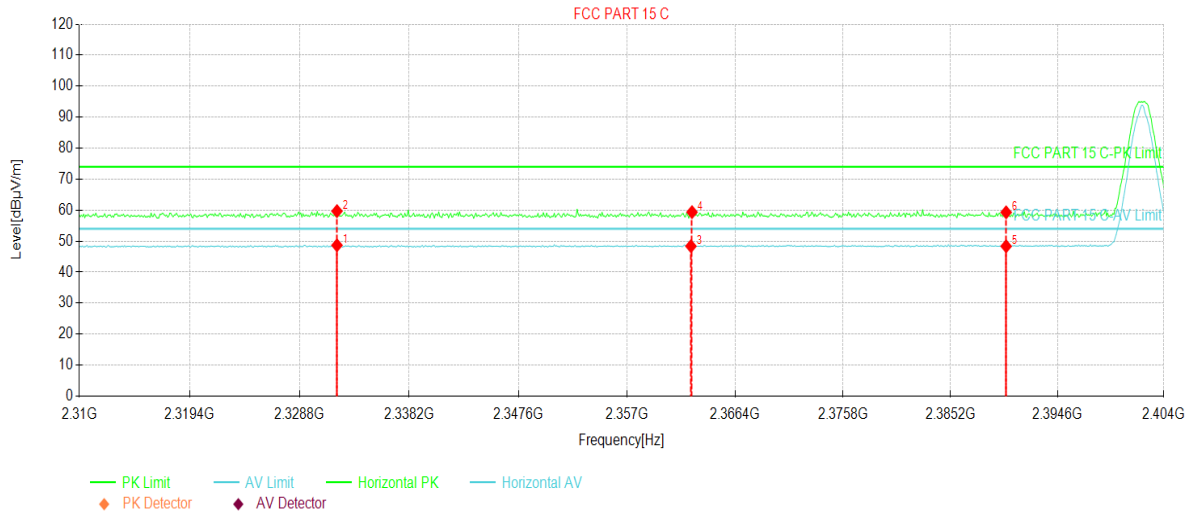


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2328.98	13.08	48.49	35.41	54.00	5.51	AV	Vertical
2	2329.17	22.92	58.33	35.41	74.00	15.67	PK	Vertical
3	2366.77	22.67	58.34	35.67	74.00	15.66	PK	Vertical
4	2366.77	13.17	48.84	35.67	54.00	5.16	AV	Vertical
5	2390.08	22.83	58.67	35.84	74.00	15.33	PK	Vertical
6	2390.08	12.59	48.43	35.84	54.00	5.57	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		

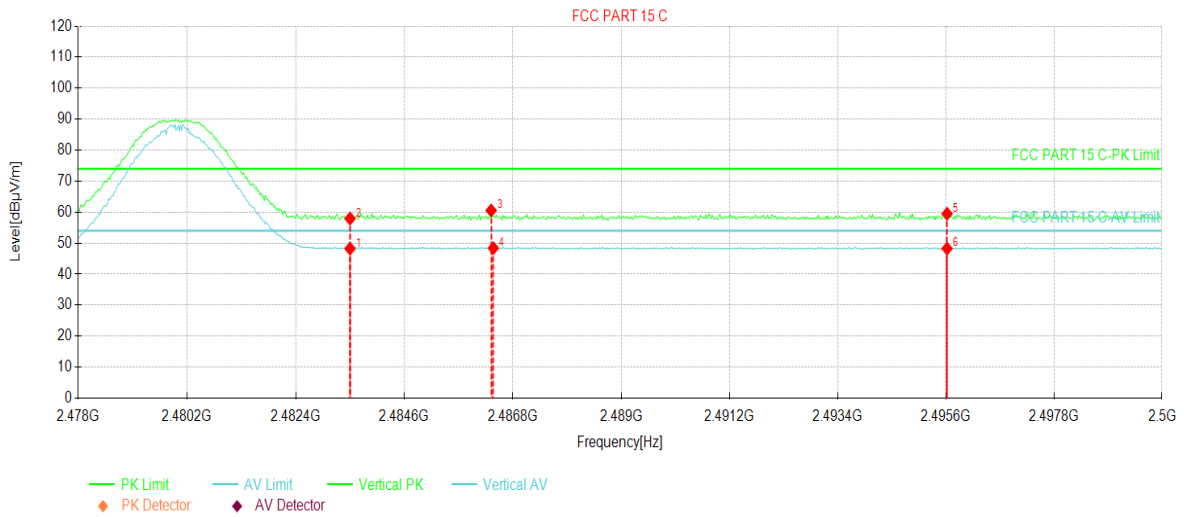


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2331.99	13.24	48.67	35.43	54.00	5.33	AV	Horizontal
2	2331.99	24.26	59.69	35.43	74.00	14.31	PK	Horizontal
3	2362.54	12.74	48.38	35.64	54.00	5.62	AV	Horizontal
4	2362.64	23.73	59.37	35.64	74.00	14.63	PK	Horizontal
5	2390.08	12.52	48.36	35.84	54.00	5.64	AV	Horizontal
6	2390.08	23.46	59.30	35.84	74.00	14.70	PK	Horizontal

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		

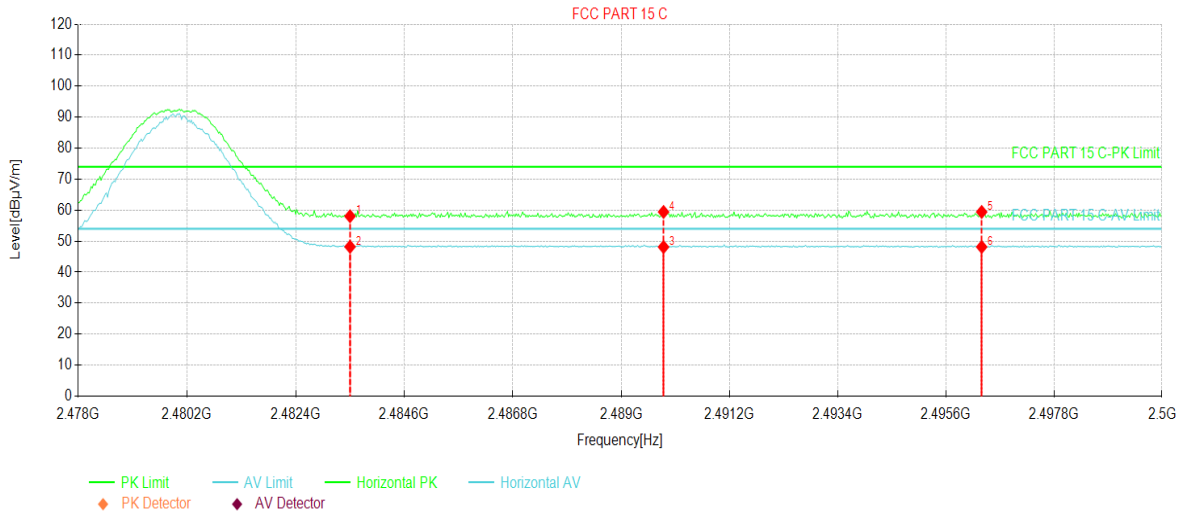


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	12.52	48.24	35.72	54.00	5.76	AV	Vertical
2	2483.50	22.22	57.94	35.72	74.00	16.06	PK	Vertical
3	2486.36	24.84	60.55	35.71	74.00	13.45	PK	Vertical
4	2486.40	12.67	48.38	35.71	54.00	5.62	AV	Vertical
5	2495.62	23.79	59.48	35.69	74.00	14.52	PK	Vertical
6	2495.62	12.57	48.26	35.69	54.00	5.74	AV	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	3DH1 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.33	58.05	35.72	74.00	15.95	PK	Horizontal
2	2483.50	12.47	48.19	35.72	54.00	5.81	AV	Horizontal
3	2489.85	12.42	48.12	35.70	54.00	5.88	AV	Horizontal
4	2489.85	23.73	59.43	35.70	74.00	14.57	PK	Horizontal
5	2496.32	23.74	59.43	35.69	74.00	14.57	PK	Horizontal
6	2496.32	12.45	48.14	35.69	54.00	5.86	AV	Horizontal

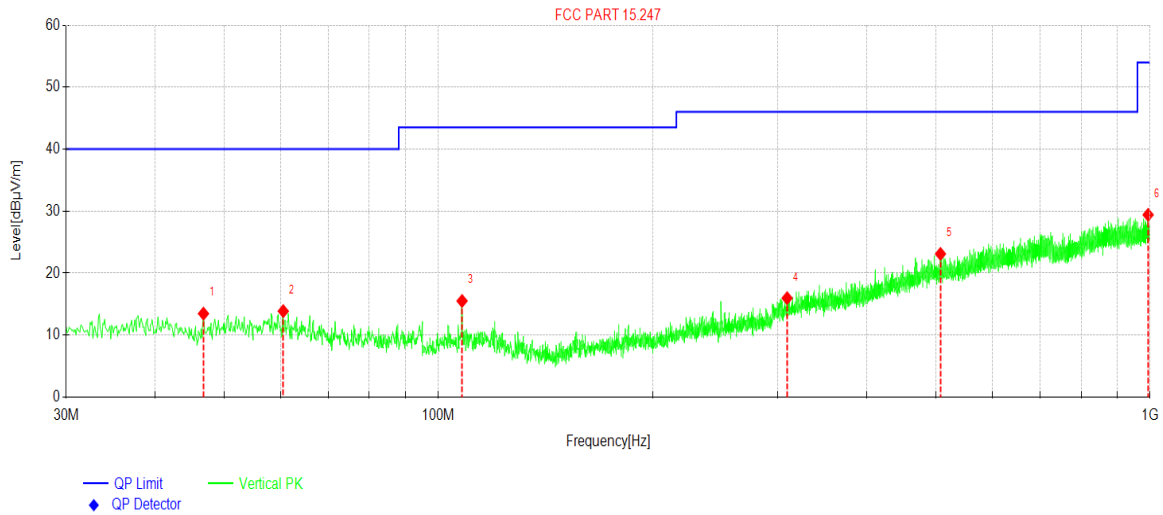
**Remark:**

1. Level = Read level + Factor.

## 6.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	BT Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.78V		



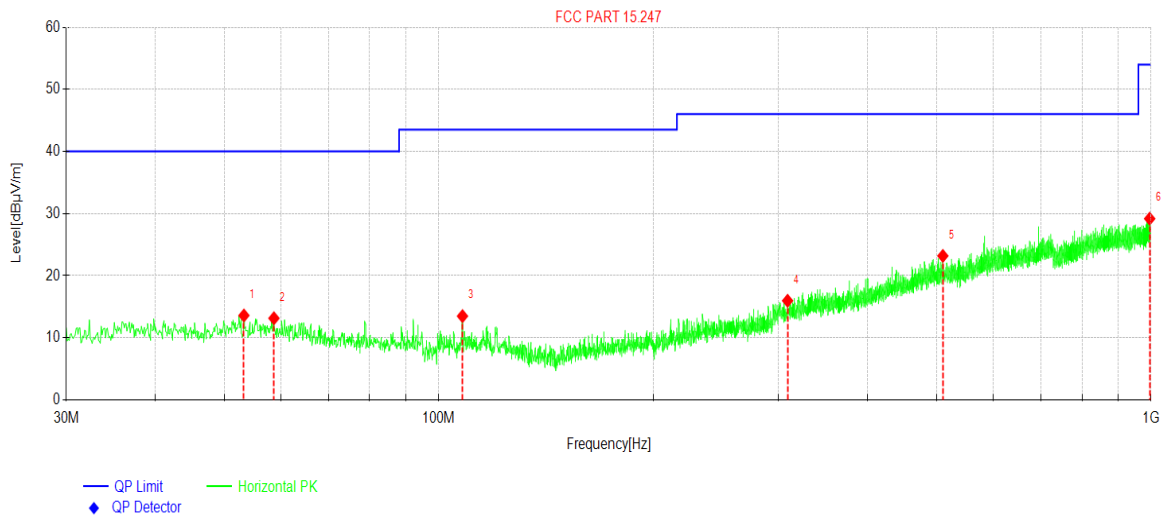
### Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	46.7827	28.39	13.47	-14.92	40.00	26.53	PK	Vertical
2	60.5581	28.96	13.87	-15.09	40.00	26.13	PK	Vertical
3	107.995	31.45	15.51	-15.94	43.50	27.99	PK	Vertical
4	309.096	28.43	15.97	-12.46	46.00	30.03	PK	Vertical
5	507.675	29.98	23.10	-6.88	46.00	22.90	PK	Vertical
6	993.888	30.03	29.41	-0.62	54.00	24.59	PK	Vertical

**Remark:**

1. Level = Read level + Factor.

<b>Product Name:</b>	5G Digital Mobile Phone	<b>Product Model:</b>	SHARK KTUS-H0
<b>Test By:</b>	Mike	<b>Test mode:</b>	BT Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.78V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	53.2823	28.24	13.59	-14.65	40.00	26.41	PK	Horizontal
2	58.7149	28.06	13.14	-14.92	40.00	26.86	PK	Horizontal
3	107.995	29.42	13.48	-15.94	43.50	30.02	PK	Horizontal
4	308.902	28.43	15.97	-12.46	46.00	30.03	PK	Horizontal
5	510.295	30.04	23.18	-6.86	46.00	22.82	PK	Horizontal
6	995.731	29.77	29.18	-0.59	54.00	24.82	PK	Horizontal

**Remark:**

1. Level = Read level + Factor.



**Above 1GHz:**

**ANT5:**

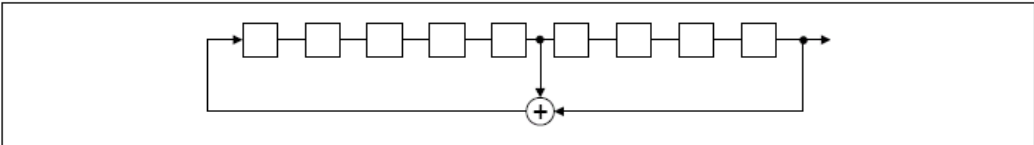
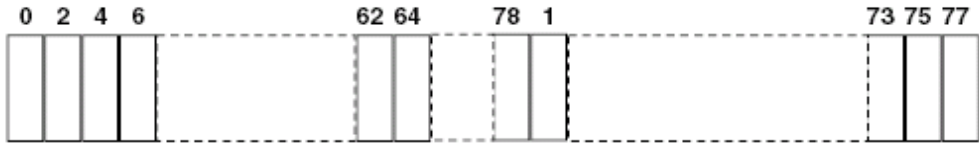
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	54.50	-9.60	44.90	74.00	29.10	Vertical
4804.00	55.26	-9.60	45.66	74.00	28.34	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	47.21	-9.60	37.61	54.00	16.39	Vertical
4804.00	47.15	-9.60	37.55	54.00	16.45	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	54.22	-9.05	45.17	74.00	28.83	Vertical
4882.00	55.35	-9.05	46.30	74.00	27.70	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	47.06	-9.05	38.01	54.00	15.99	Vertical
4882.00	47.21	-9.05	38.16	54.00	15.84	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	54.72	-8.45	46.27	74.00	27.73	Vertical
4960.00	55.73	-8.45	47.28	74.00	26.72	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	47.28	-8.45	38.83	54.00	15.17	Vertical
4960.00	46.95	-8.45	38.50	54.00	15.50	Horizontal
<b>Remark:</b>						
1. Level = Read level + 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.						

**ANT7:**

Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	54.50	-9.60	44.90	74.00	29.10	Vertical
4804.00	55.26	-9.60	45.66	74.00	28.34	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	47.21	-9.60	37.61	54.00	16.39	Vertical
4804.00	47.15	-9.60	37.55	54.00	16.45	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	54.21	-9.05	45.16	74.00	28.84	Vertical
4882.00	54.97	-9.05	45.92	74.00	28.08	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	47.25	-9.05	38.20	54.00	15.80	Vertical
4882.00	47.51	-9.05	38.46	54.00	15.54	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	54.94	-8.45	46.49	74.00	27.51	Vertical
4960.00	54.82	-8.45	46.37	74.00	27.63	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	47.26	-8.45	38.81	54.00	15.19	Vertical
4960.00	47.44	-8.45	38.99	54.00	15.01	Horizontal
<b>Remark:</b>						
1. Level = Read level + 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.						

Simultaneous TX Emission Pass: Refer to JYTSZ-R12-2200499 report for details.

## 6.6 Pseudorandom Frequency Hopping Sequence

<b>Test Requirement:</b>	<b>FCC Part 15 C Section 15.247 (a)(1) requirement:</b>
<p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>	
<b>EUT Pseudorandom Frequency Hopping Sequence</b>	
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"> <li>• Number of shift register stages: 9</li> <li>• Length of pseudo-random sequence: <math>2^9 - 1 = 511</math> bits</li> <li>• Longest sequence of zeros: 8 (non-inverted signal)</li> </ul>	
	
<p><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p>	
<p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p>	
	
<p>Each frequency used equally on the average by each transmitter.</p> <p>The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>	

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