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FCC RADIO TEST REPORT

FCC ID: 2ACWQNXKA01A1

Of

Product： Smartwatch

Trade Name： N/A

Model Number： NXK-A01-A1

Serial Model： N/A

Report No.： BZT-2014NT0825268F

Prepared for

Neusoft Xikang Healthcare Technology Co., Ltd.

Rooms 321, 315-9, Building 6, No. 8 West Dong Bei Wang Road, Haidian District, Beijing 100193, China

Prepared by

Shenzhen BZT Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,Xixiang Street Bao'an District, Shenzhen P.R. China

TEST RESULT CERTIFICATION

Applicant's name .... Neusoft Xikang Healthcare Technology Co., Ltd.

Address .... Rooms 321, 315-9, Building 6, No. 8 West Dong Bei Wang Road, Haidian District, Beijing 100193, China

Manufacture's Name ... Guangdong Appscomm Co.,Ltd

Address .... Rm 903, Block C3, Chuangxin Building, No.182, Science Road, Science City, LuoGang Zone, Guangzhou 510000, PRC

Product description

Product name .... Smartwatch

Band name .... N/A

Model and/or type reference NXK-A01-A1

Ratings 5V1A

Standards .... FCC Part15.247

Test procedure .... ANSI C63.4-2003

This device described above has been tested by BZT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
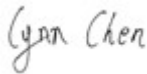
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Date of Test ....

Date (s) of performance of tests........ 01 August. 2014 ~09 August. 2014

Date of Issue .... 10 August. 2014

Test Result .... **Pass**

Testing Engineer   :   *(signature)*

(Lynn   Chen)

Technical Manager   :   *(signature)*

(Carlen   Liu)
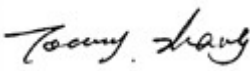
Authorized Signatory :   *(signature)*

(Tommy   zhang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:
(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

BZT Testing Technology Co., Ltd
Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.
FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of   **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartwatch
Trade Name	N/A
Model Name	NXK-A01-A1
Serial Model	N/A
Model Difference	N/A.
Product Description	The EUT is a Mobile phone <table><tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr><tr><td>Modulation Type:</td><td>GFSK, π/4 DQPSK, 8-DPSK</td></tr><tr><td>Bit Rate of Transmitter</td><td>1Mbps, 2Mbps, 3Mbps</td></tr><tr><td>Number Of Channel</td><td>79 CH</td></tr><tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr><tr><td>Antenna Gain(Peak)</td><td>0.9dBi</td></tr><tr><td>Output Power(Conducted):</td><td>3.32 dBm (Max.)</td></tr></table>
Frequency Bands:	☒GSM 850 ☒PCS 1900 (U.S. Bands) ☒GSM 900 ☒DCS 1800 (Non-U.S. Bands) U.S. Bands: ☒UMTS FDD Band II ☒UMTS FDD Band V Non-U.S. Bands: ☐UMTS FDD Band I ☐UMTS FDD Band VIII
Wifi	Frequency:2412 – 2462 MHz Modulation: CCK/OFDM/DBPSK/DAPSK Output Power: 9.43 dBm
Bluetooth 4.0	Frequency:2402 – 2480 MHz Modulation: GFSK Output Power: -2.15dBm
Channel List	Please refer to the Note 2.
Adapter	Adapter Input:AC 100-240V,50/60Hz Output:DC 5V,1A
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V capacity :3000mAh
Connecting I/O Port(s)	Please refer to the User's Manual

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

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Integral Antenna	NA	0.9	BT Antenna

The EUT antenna is integral Antenna. no antenna other than that furnished by the responsible party shall be used with the device.

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

For Conducted Emission	
Final Test Mode	Description
Mode4	Charging

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software Version	Test program: N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	DEF	DEF	DEF
Parameters(3Mbps)	DEF	DEF	DEF

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test

```
                        C-1              AC Line
   ┌──────────┐                ┌──────────┐
   │   E-1    │                │   E-2    │
   │   EUT    │────────────────│  Adapter │──────────
   │          │                │          │
   └──────────┘                └──────────┘
```

Radiated Spurious Emission Test

```
                        C-1              AC Line
   ┌──────────┐                ┌──────────┐
   │   E-1    │                │   E-2    │
   │   EUT    │────────────────│  Adapter │──────────
   │          │                │          │
   └──────────┘                └──────────┘
```
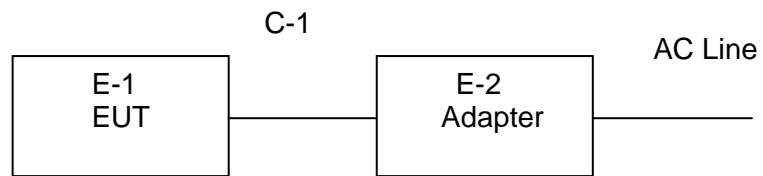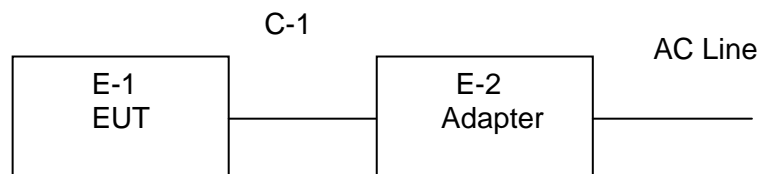
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Smartwatch	N/A	NXK-A01-A1	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	No	No	1.2M	

Note:

(1)   The support equipment was authorized by Declaration of Confirmation.
(2)   For detachable type I/O cable should be specified the length in cm in 『Length』 column.
(3)   "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2014.07.05	2015.07.04	1 year
2	Test Receiver	R&S	ESPI	101318	2014.07.05	2015.07.04	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.22	2015.07.21	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.07.05	2015.07.04	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.07.05	2015.07.04	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2014.07.22	2015.07.21	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.22	2015.07.21	1 year
8	Amplifier	EM	EM-30180	060538	2014.07.05	2015.07.04	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.07.22	2015.07.21	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.05	2015.07.04	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.06.20	2015.06.19	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.07.05	2015.07.04	1 year
2	LISN	R&S	ENV216	101313	2014.07.05	2015.07.04	1 year
3	LISN	EMCO	3816/2	00042990	2014.07.05	2015.07.04	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.07.05	2015.07.04	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.07.05	2015.07.04	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.07.05	2015.07.04	1 year

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits   (Frequency Range 150KHz-30MHz)

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE
a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD
No deviation

3.1.4 TEST SETUP

Vertical Reference Ground Plane

EUT

40cm

LISN

80cm

Test Receiver

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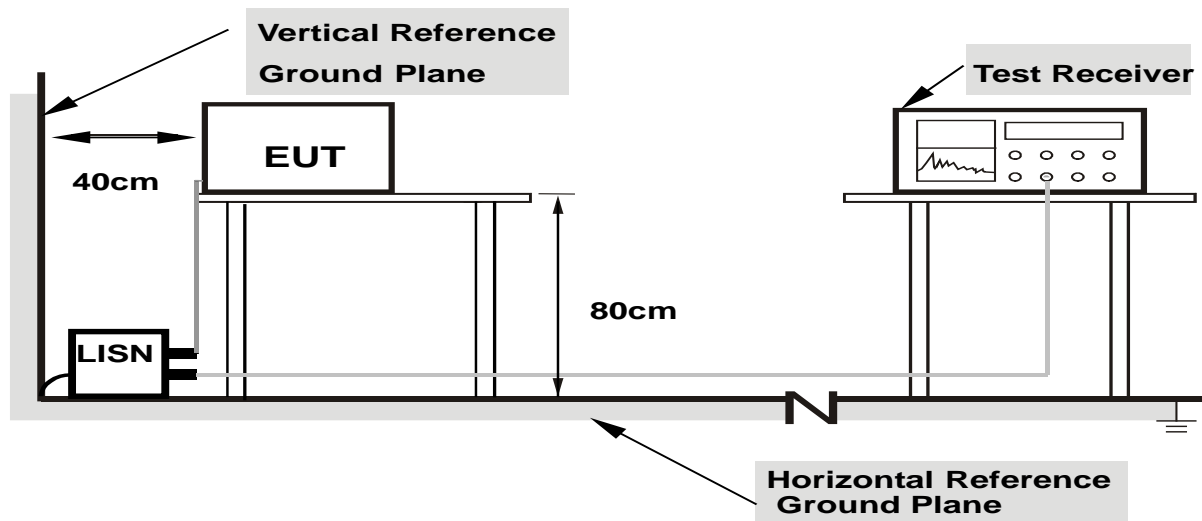
Note: 1.Support units were connected to second LISN.
      2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

EUT：	Smartwatch	Model Name.　：	NXK-A01-A1
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase :	L
Test Voltage　：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode
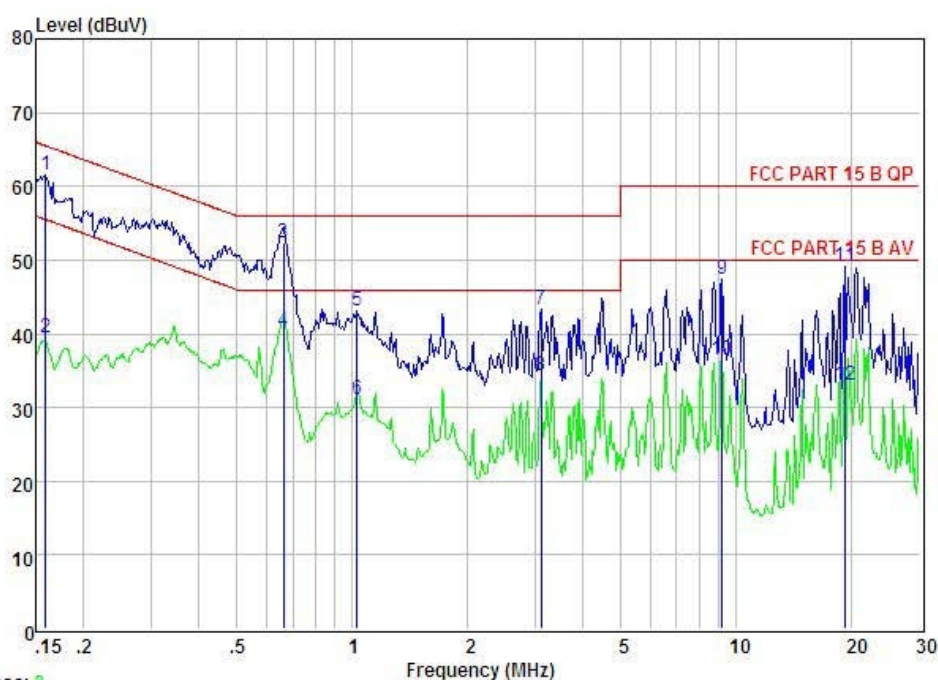

```
Trace: 8
Condition    : FCC PART 15 B QP           POL: LINE      Temp:        Hum:
     Item    Freq    Read     LISN    Preamp  Cable   Level  Limit   Margin  Remark
                             Factor   Factor  Lose
             MHz     dBuV      dB       dB      dB     dBuV   dBuV     dBuV
    ------- ------  ------   ------   ------  ------  ------ ------  -------  ------
       1    0.159   51.61     0.03    -9.72    0.10   61.46  65.52   -4.06   QP
       2    0.159   29.61     0.03    -9.72    0.10   39.46  55.52  -16.06   Average
       3    0.661   42.53     0.04    -9.72    0.10   52.39  56.00   -3.61   QP
       4    0.661   30.53     0.04    -9.72    0.10   40.39  46.00   -5.61   Average
       5    1.032   33.25     0.04    -9.71    0.10   43.10  56.00  -12.90   QP
       6    1.032   21.25     0.04    -9.71    0.10   31.10  46.00  -14.90   Average
       7    3.107   33.38     0.07    -9.69    0.12   43.26  56.00  -12.74   QP
       8    3.107   24.38     0.07    -9.69    0.12   34.26  46.00  -11.74   Average
       9    9.204   37.62     0.16    -9.39    0.19   47.36  60.00  -12.64   QP
      10    9.204   26.62     0.16    -9.39    0.19   36.36  50.00  -13.64   Average
      11   19.224   39.00     0.30    -9.47    0.33   49.10  60.00  -10.90   QP
      12   19.224   23.00     0.30    -9.47    0.33   33.10  50.00  -16.90   Average

Remarks:  Level = Read + LISN Factor - Preamp Factor + Cable loss
```

EUT：	Smartwatch	Model Name. ：	NXK-A01-A1
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase :	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode
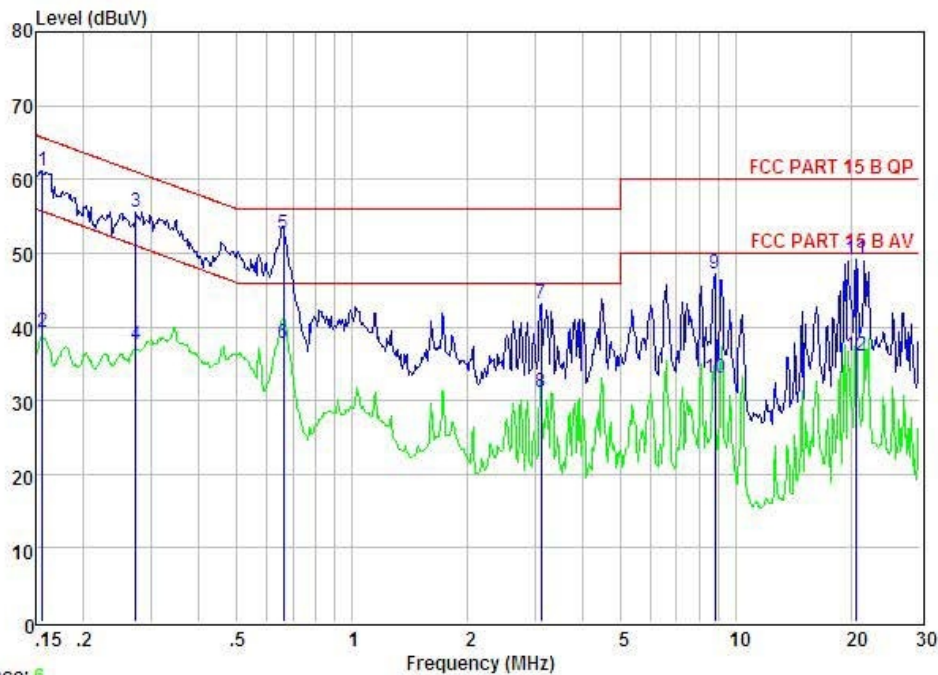

```
Trace: 6
Condition    : FCC PART 15 B QP          POL: NEUTRAL  Temp:        Hum:
   Item    Freq   Read    LISN    Preamp  Cable  Level   Limit  Margin  Remark
                          Factor  Factor  Lose
           MHz    dBuV    dB      dB      dB     dBuV    dBuV   dBuV
   ------ ------  ------  ------  ------  ------ ------  ------ ------  ------
     1    0.156   51.38   0.03    -9.72   0.10   61.23   65.65  -4.42   QP
     2    0.156   29.38   0.03    -9.72   0.10   39.23   55.65 -16.42   Average
     3    0.273   45.64   0.03    -9.72   0.10   55.49   61.03  -5.54   QP
     4    0.273   27.64   0.03    -9.72   0.10   37.49   51.03 -13.54   Average
     5    0.661   42.78   0.04    -9.72   0.10   52.64   56.00  -3.36   QP
     6    0.661   27.78   0.04    -9.72   0.10   37.64   46.00  -8.36   Average
     7    3.107   33.16   0.07    -9.69   0.12   43.04   56.00 -12.96   QP
     8    3.107   21.16   0.07    -9.69   0.12   31.04   46.00 -14.96   Average
     9    8.822   37.33   0.16    -9.42   0.18   47.09   60.00 -12.91   QP
    10    8.822   23.33   0.16    -9.42   0.18   33.09   50.00 -16.91   Average
    11   20.594   38.89   0.33    -9.50   0.36   49.08   60.00 -10.92   QP
    12   20.594   25.89   0.33    -9.50   0.36   36.08   50.00 -13.92   Average

  Remarks:  Level = Read + LISN Factor - Preamp Factor + Cable loss
```

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:
   (1) The limit for radiated test was performed according to FCC PART 15C.
   (2) The tighter limit applies at the band edges.
   (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

3.2.4 TEST SETUP

（A）Radiated Emission Test-Up Frequency Below 30MHz
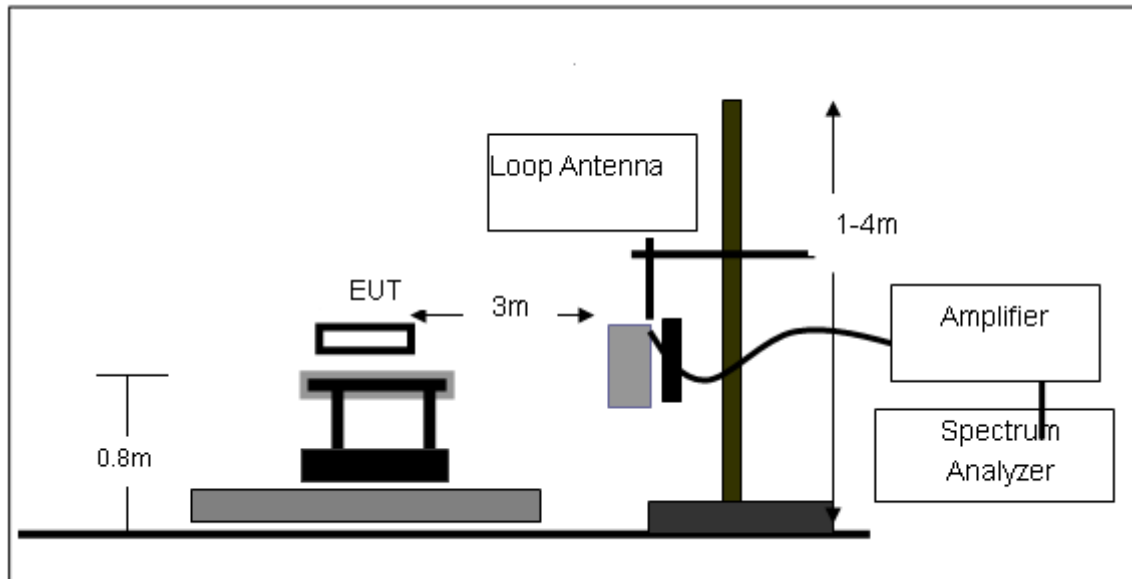
（B）Radiated Emission Test-Up Frequency 30MHz~1GHz
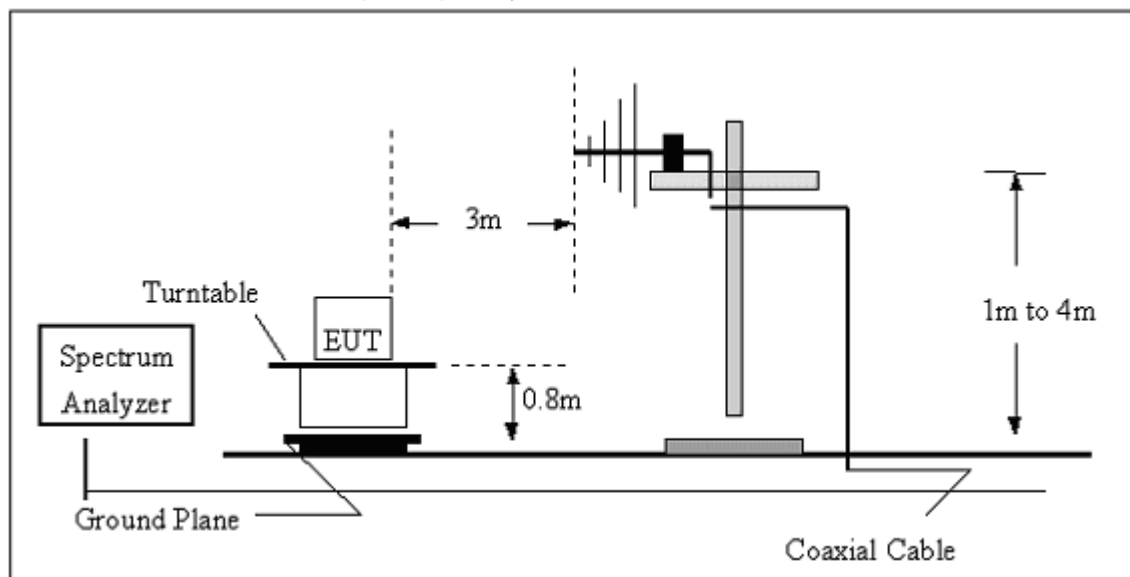
（C）Radiated Emission Test-Up Frequency Above 1GHz
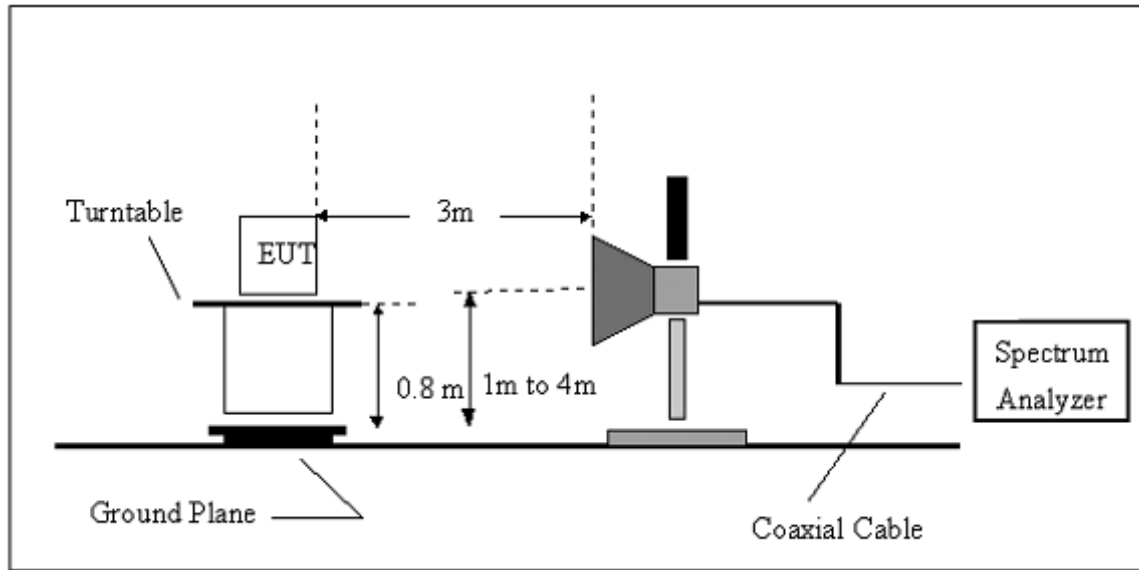
3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT：	Smartwatch	Model Name. ：	NXK-A01-A1
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010 hPa	Polarization :	---
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT：	Smartwatch	Model Name. ：	NXK-A01-A1
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	TX Mode		
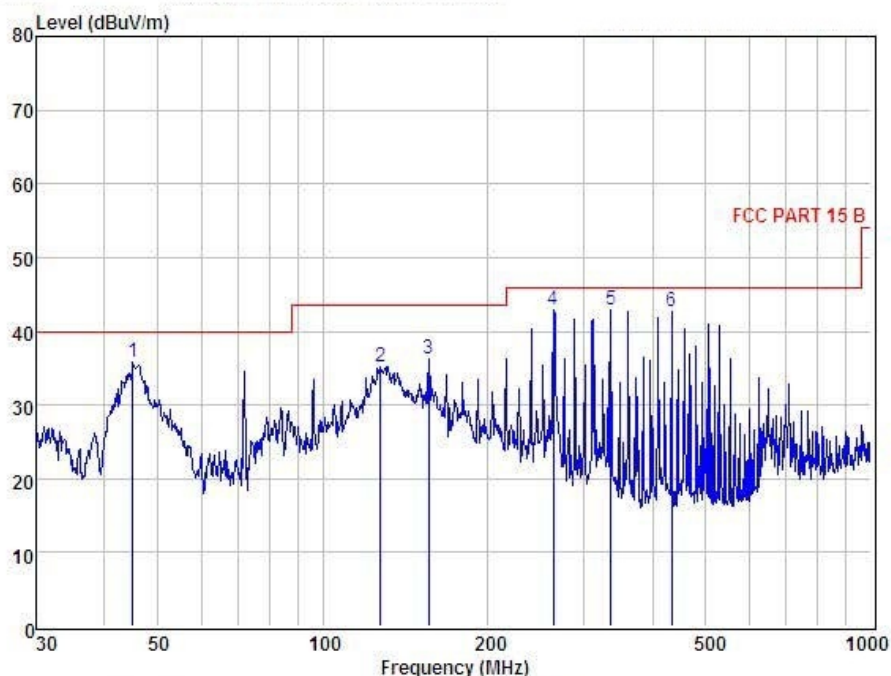

```
Condition    : FCC PART 15 B      3m      POL: HORIZONTAL
  Item    Freq      Read      Antenna    Preamp    Cable    Level    Limit    Margin    Remark
                    Level     Factor     Factor    Loss
          MHz       dBuV      dB         dB        dB       dBuV     dBuV     dBuV
  -------  --------  ---------  --------  ---------  ------  ------  ------  -------  ---------
    1     45.06     49.92     13.65      27.82     0.05     35.80    40.00    -4.20    QP
    2     127.66    49.08     12.57      26.89     0.40     35.16    43.50    -8.34    QP
    3     155.91    48.53     14.15      26.91     0.38     36.15    43.50    -7.35    QP
    4     263.82    57.45     11.90      27.13     0.65     42.87    46.00    -3.13    QP
    5     336.04    55.80     13.61      27.25     0.78     42.94    46.00    -3.06    QP
    6     432.55    53.91     15.53      27.46     0.74     42.72    46.00    -3.28    QP


  Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```

EUT：	Smartwatch	Model Name. ：	NXK-A01-A1
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010 hPa	Polarization :	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	TX Mode		

Condition   : FCC PART 15 B   3m   POL: VERTICAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	44.43	49.86	13.79	27.81	0.03	35.87	40.00	-4.13	QP
2	71.83	50.03	10.51	26.77	0.19	33.96	40.00	-6.04	QP
3	119.86	50.82	12.06	26.88	0.36	36.36	43.50	-7.14	QP
4	155.91	48.20	14.15	26.91	0.38	35.82	43.50	-7.68	QP
5	264.75	56.98	11.96	27.13	0.57	42.38	46.00	-3.62	QP
6	528.25	48.71	17.03	27.68	1.07	39.13	46.00	-6.87	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2402MHz – CH 00(1Mbps)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4804	58.21	-3.64	54.57	74	-19.43	peak
4804	45.36	-3.64	41.72	54	-12.28	AVG
7206	57.41	-0.95	56.46	74	-17.54	peak
7206	44.66	-0.95	43.71	54	-10.29	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2402MHz – CH 00(1Mbps)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4804	59.19	-3.64	55.55	74	-18.45	peak
4804	46.28	-3.64	42.64	54	-11.36	AVG
7206	57.31	-0.95	56.36	74	-17.64	peak
7206	44.72	-0.95	43.77	54	-10.23	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2441MHz – CH 39(1Mbps)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4882	58.16	-3.68	54.48	74	-19.52	peak
4882	45.82	-3.68	42.14	54	-11.86	AVG
7323	54.35	-0.82	53.53	74	-20.47	peak
7323	41.00	-0.82	40.18	54	-13.82	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2441MHz – CH 39(1Mbps)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4882	58.10	-3.68	54.42	74	-19.58	peak
4882	44.93	-3.68	41.25	54	-12.75	AVG
7323	56.36	-0.82	55.54	74	-18.46	peak
7323	42.78	-0.82	41.96	54	-12.04	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2480MHz – CH 78(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	60.21	-3.59	56.62	74	-17.38	peak
4960	46.13	-3.59	42.54	54	-11.46	AVG
7440	57.76	-0.69	57.07	74	-16.93	peak
7440	42.50	-0.69	41.81	54	-12.19	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2480MHz – CH 78(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	57.84	-3.59	54.25	74	-19.75	peak
4960	46.21	-3.59	42.62	54	-11.38	AVG
7440	56.27	-0.69	55.58	74	-18.42	peak
7440	42.07	-0.69	41.38	54	-12.62	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2402MHz – CH 00(3 Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804	58.12	-3.64	54.48	74	-19.52	peak
4804	44.88	-3.64	41.24	54	-12.76	AVG
7206	56.71	-0.95	55.76	74	-18.24	peak
7206	43.49	-0.95	42.54	54	-11.46	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2402MHz – CH 00(3 Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804	60.11	-3.64	56.47	74	-17.53	peak
4804	46.12	-3.64	42.48	54	-11.52	AVG
7206	56.63	-0.95	55.68	74	-18.32	peak
7206	42.12	-0.95	41.17	54	-12.83	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2441MHz – CH 39(3 Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882	59.01	-3.68	55.33	74	-18.67	peak
4882	45.76	-3.68	42.08	54	-11.92	AVG
7323	57.46	-0.82	56.64	74	-17.36	peak
7323	44.40	-0.82	43.58	54	-10.42	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2441MHz – CH 39(3 Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882	60.25	-3.68	56.57	74	-17.43	peak
4882	47.40	-3.68	43.72	54	-10.28	AVG
7323	59.34	-0.82	58.52	74	-15.48	peak
7323	45.61	-0.82	44.79	54	-9.21	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2480MHz – CH 78(3Mbps)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4960	58.24	-3.59	54.65	74	-19.35	peak
4960	45.44	-3.59	41.85	54	-12.15	AVG
7440	56.06	-0.69	55.37	74	-18.63	peak
7440	43.26	-0.69	42.57	54	-11.43	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	TX 2480MHz – CH 78(3Mbps)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
4960	59.67	-3.59	56.08	74	-17.92	peak
4960	45.24	-3.59	41.65	54	-12.35	AVG
7440	56.25	-0.69	55.56	74	-18.44	peak
7440	43.08	-0.69	42.39	54	-11.61	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

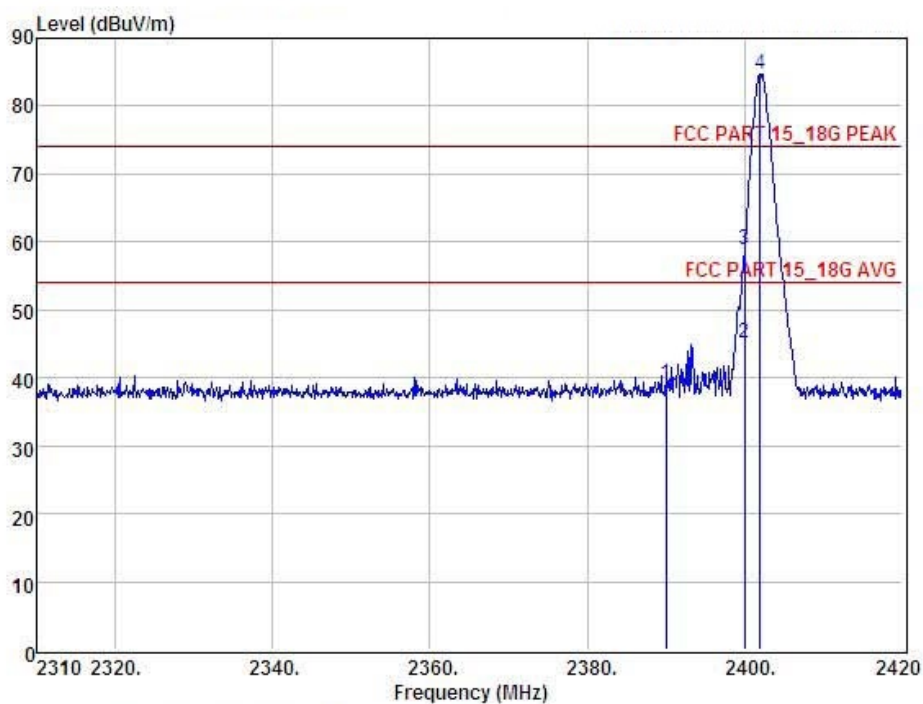| EUT：	Smartwatch	Model Name　：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Horizontal
Test Voltage　：	DC 5V from adapter with AC 120V/60Hz		
Test Mode　：	CH00 for GFSK		
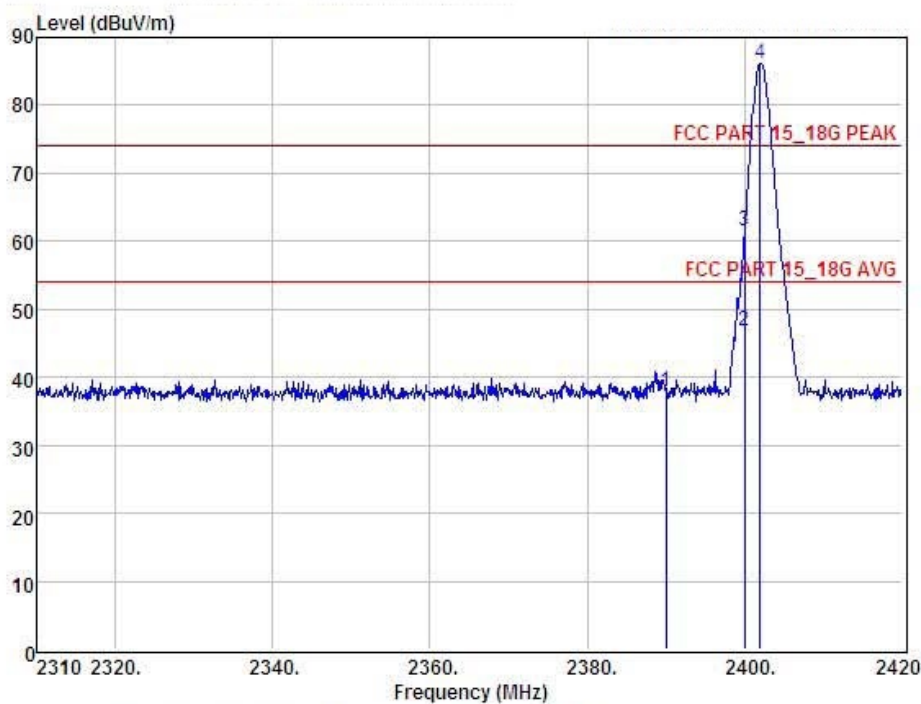

```
Condition    : FCC PART 15_18G PEAK 3m      POL: HORIZONTAL
  Item    Freq       Read      Antenna    Preamp    Cable    Level    Limit    Margin    Remark
                    Level      Factor     Factor    Loss
          MHz        dBuV        dB          dB       dB      dBuV     dBuV      dBuV
  ------- --------  ---------- --------  ----------  ------   ------   ------   -------   ---------
    1    2390.00     41.22      27.62      34.97     3.92     37.79    74.00    -36.21    Peak
    2    2400.00     50.26      27.62      34.97     3.94     46.85    54.00     -7.15    Average
    3    2400.00     64.97      27.62      34.97     3.94     61.56    74.00    -12.44    Peak
    4    2402.00     89.57      27.62      34.97     3.94     86.16    74.00     12.16    Peak

  Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
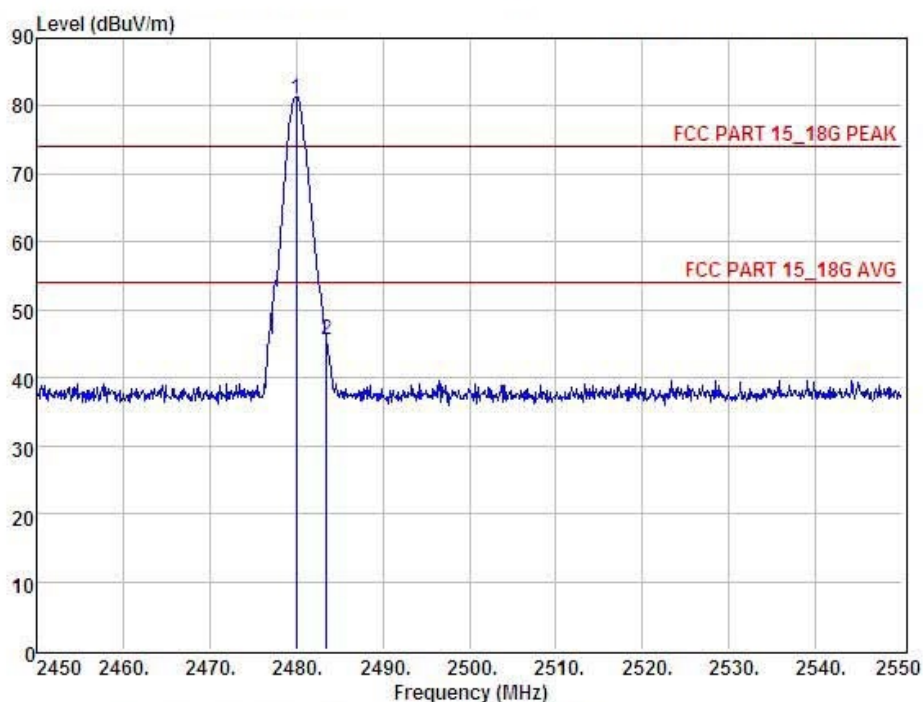
✓**BZT**

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization ：	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH00 for GFSK		

Condition   : FCC PART 15_18G PEAK 3m   POL: VERTICAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	42.64	27.62	34.97	3.92	39.21	74.00	-34.79	Peak
2	2400.00	48.54	27.62	34.97	3.94	45.13	54.00	-8.87	Average
3	2400.00	62.33	27.62	34.97	3.94	58.92	74.00	-15.08	Peak
4	2402.00	88.19	27.62	34.97	3.94	84.78	74.00	10.78	Peak

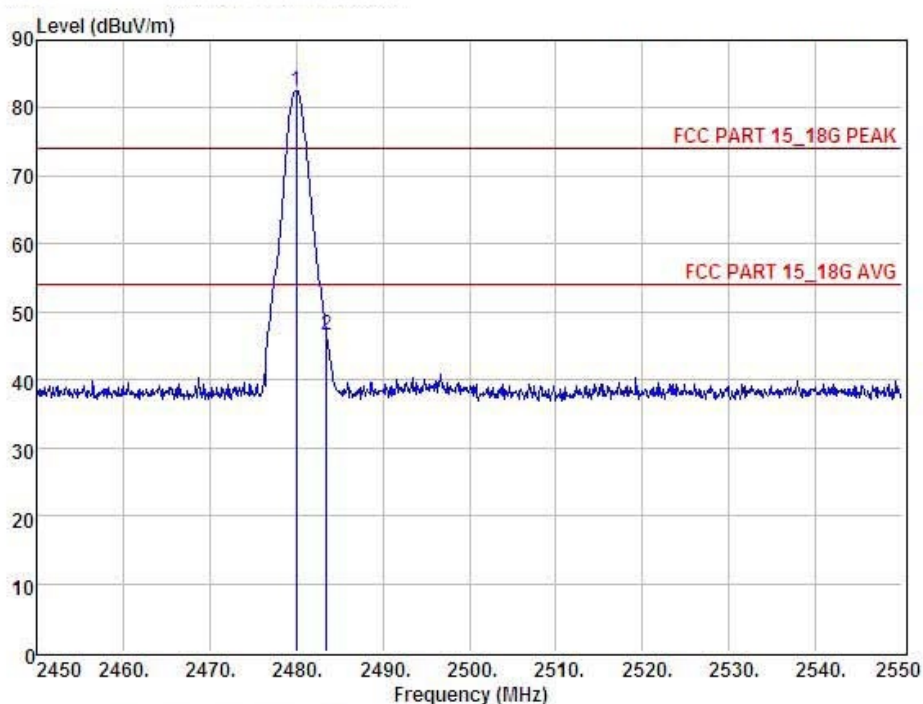Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH78 for GFSK		

Condition   : FCC PART 15_18G PEAK 3m   POL: HORIZONTAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	84.55	27.59	34.97	4.00	81.17	74.00	7.17	Peak
2	2483.50	49.05	27.59	34.97	4.00	45.67	74.00	-28.33	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

✓BZT

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization：	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH78 for GFSK		


```
Condition    : FCC PART 15_18G PEAK 3m       POL: VERTICAL
  Item     Freq      Read      Antenna    Preamp    Cable     Level     Limit     Margin    Remark
                     Level     Factor     Factor    Loss
           MHz       dBuV      dB         dB        dB        dBuV      dBuV      dBuV
  ------- --------- ---------- ---------- --------- --------- -------- -------- -------- ---------
     1    2480.00    85.84      27.59      34.97     4.00      82.46     74.00      8.46   Peak
     2    2483.50    49.90      27.59      34.97     4.00      46.52     74.00    -27.48   Peak


  Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
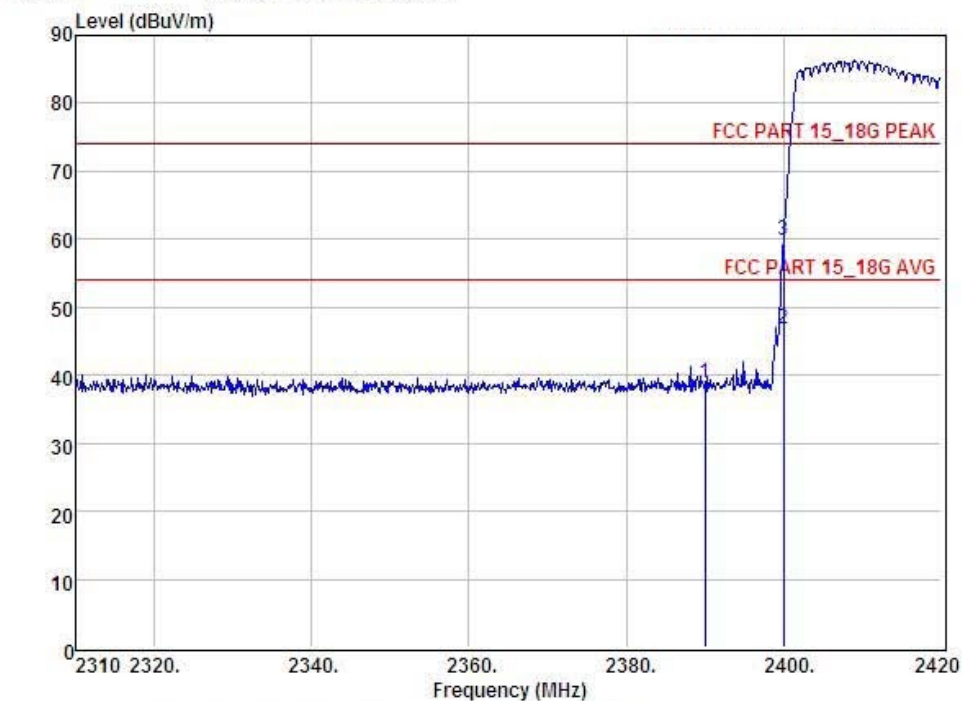
EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	Hopping for GFSK		


```
Condition   : FCC PART 15_18G PEAK 3m        POL: HORIZONTAL
  Item    Freq      Read      Antenna    Preamp    Cable    Level    Limit    Margin    Remark
                    Level     Factor     Factor    Loss
          MHz       dBuV      dB         dB        dB       dBuV     dBuV     dBuV
  ------- -------- ---------- ---------- --------- ------   ------   ------   -------  ---------
    1    2390.00    42.29      27.62      34.97     3.92     38.86    74.00    -35.14    Peak
    2    2400.00    50.32      27.62      34.97     3.94     46.91    54.00     -7.09    Average
    3    2400.00    63.32      27.62      34.97     3.94     59.91    74.00    -14.09    Peak


  Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
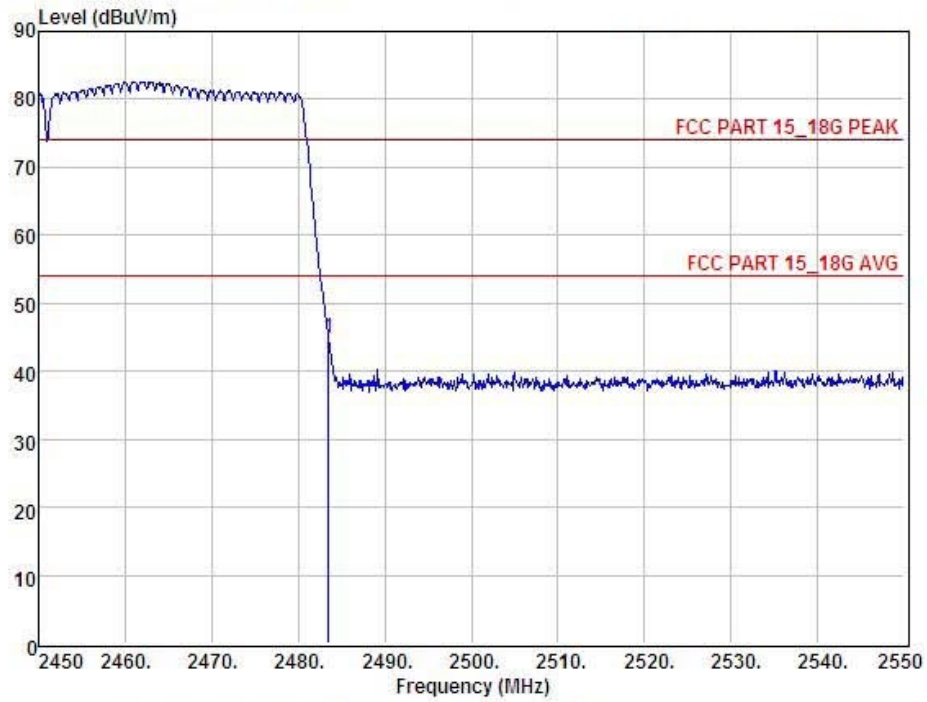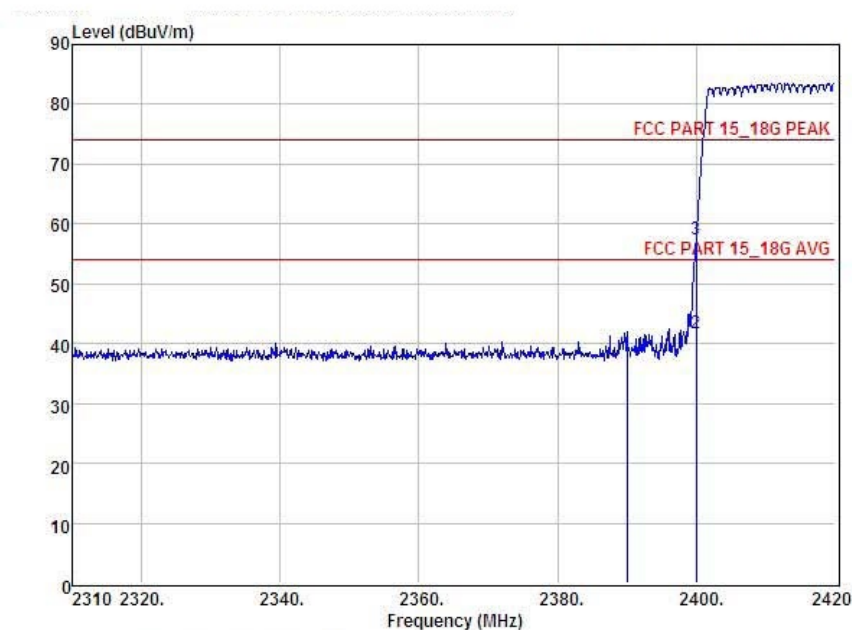
Condition   : FCC PART 15_18G PEAK 3m   POL: HORIZONTAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	48.29	27.59	34.97	4.00	44.91	74.00	-29.09	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	Hopping for GFSK		

Condition   : FCC PART 15_18G PEAK 3m   POL: VERTICAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.38	27.62	34.97	3.92	37.95	74.00	-36.05	Peak
2	2400.00	45.13	27.62	34.97	3.94	41.72	54.00	-12.28	Average
3	2400.00	60.92	27.62	34.97	3.94	57.51	74.00	-16.49	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

```
Condition      : FCC PART 15_18G PEAK 3m      POL: VERTICAL
  Item    Freq      Read      Antenna    Preamp   Cable    Level    Limit    Margin    Remark
                    Level     Factor     Factor   Loss
          MHz       dBuV      dB         dB       dB       dBuV     dBuV     dBuV
  ------- --------  --------- ---------  -------- -------- -------- -------- --------- ---------
     1  2483.50     49.26     27.59      34.97    4.00     45.88    74.00    -28.12    Peak
```
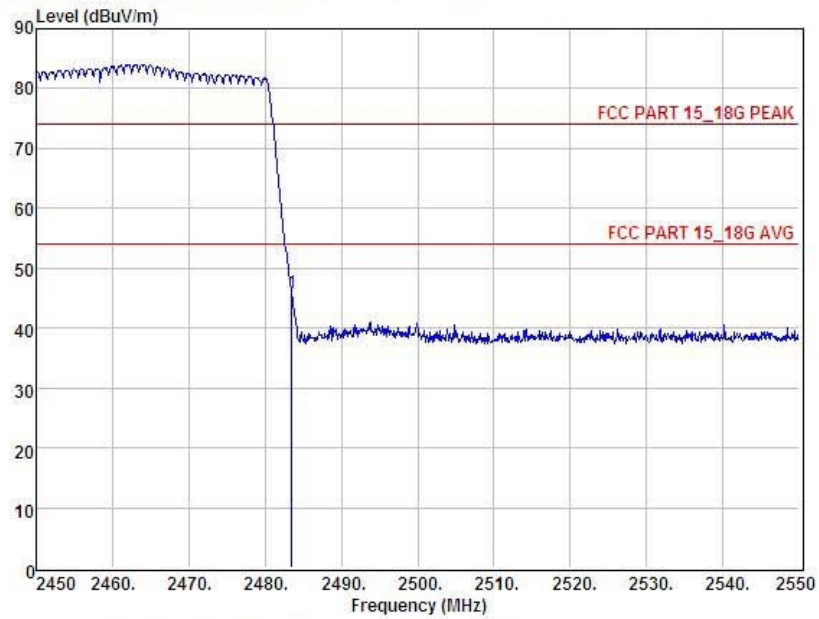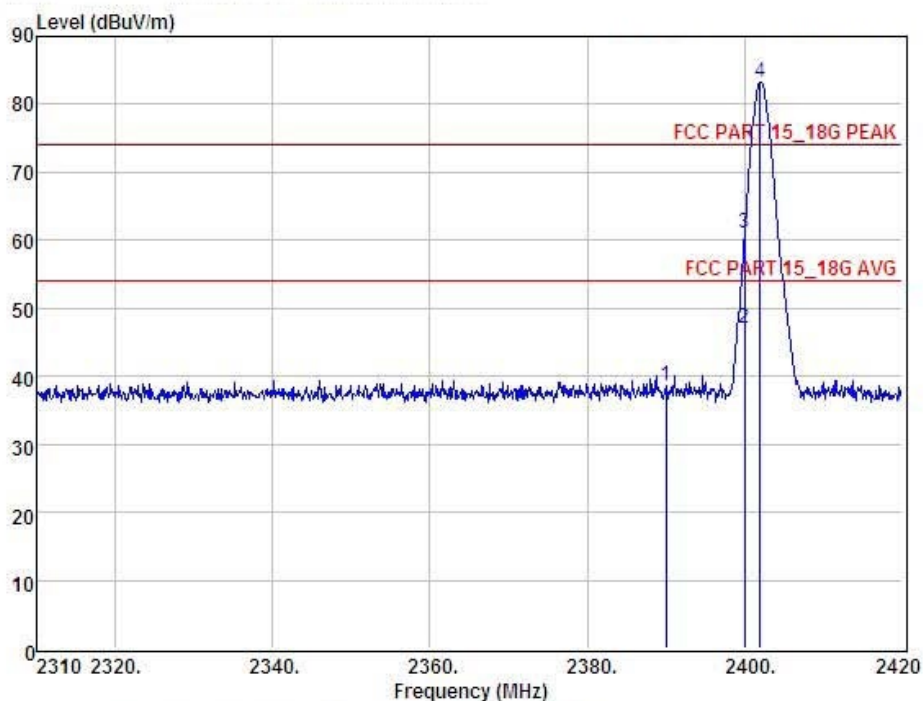
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
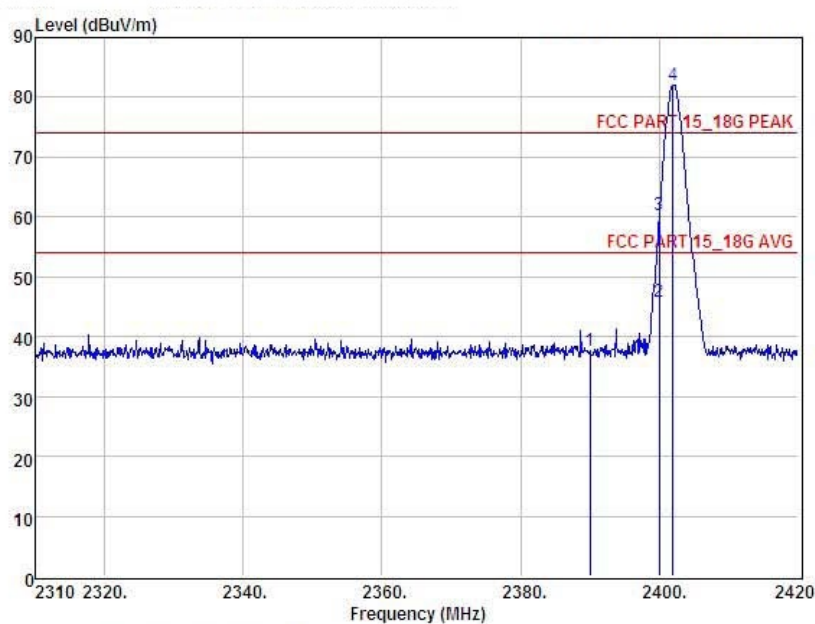
✓BZT

EUT ：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature ：	25 ℃	Relative Humidity ：	60%
Pressure ：	1012 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH00 for 8-DPSK		


```
Condition    : FCC PART 15 18G PEAK 3m      POL: HORIZONTAL
  Item    Freq      Read       Antenna    Preamp    Cable    Level    Limit    Margin    Remark
                    Level      Factor     Factor    Loss
          MHz       dBuV       dB         dB        dB       dBuV     dBuV     dBuV
------- -------- ---------- -------- ---------- ------ ------ ------ ------- ---------
   1    2390.00    41.94      27.62      34.97     3.92     38.51    74.00    -35.49    Peak
   2    2400.00    50.41      27.62      34.97     3.94     47.00    54.00    -7.00     Average
   3    2400.00    64.37      27.62      34.97     3.94     60.96    74.00    -13.04    Peak
   4    2402.00    86.56      27.62      34.97     3.94     83.15    74.00    9.15      Peak

   Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
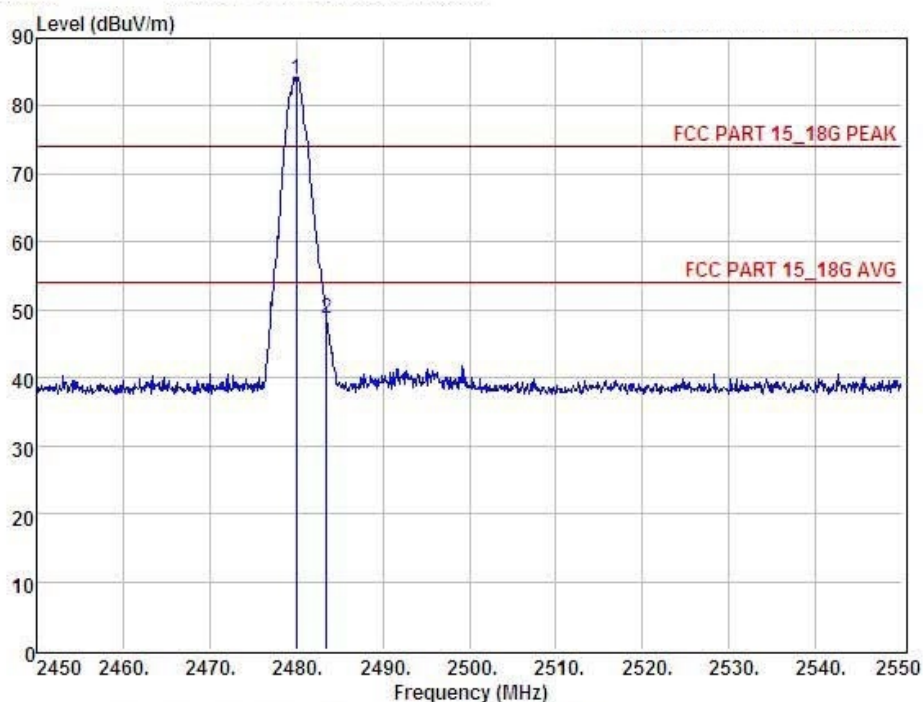
EUT ：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature ：	25 ℃	Relative Humidity ：	60%
Pressure ：	1012 hPa	Polarization ：	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH00 for 8-DPSK		

Condition   : FCC PART 15_18G PEAK 3m   POL: VERTICAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.11	27.62	34.97	3.92	37.68	74.00	-36.32	Peak
2	2400.00	49.28	27.62	34.97	3.94	45.87	54.00	-8.13	Average
3	2400.00	63.65	27.62	34.97	3.94	60.24	74.00	-13.76	Peak
4	2402.00	85.51	27.62	34.97	3.94	82.10	74.00	8.10	Peak

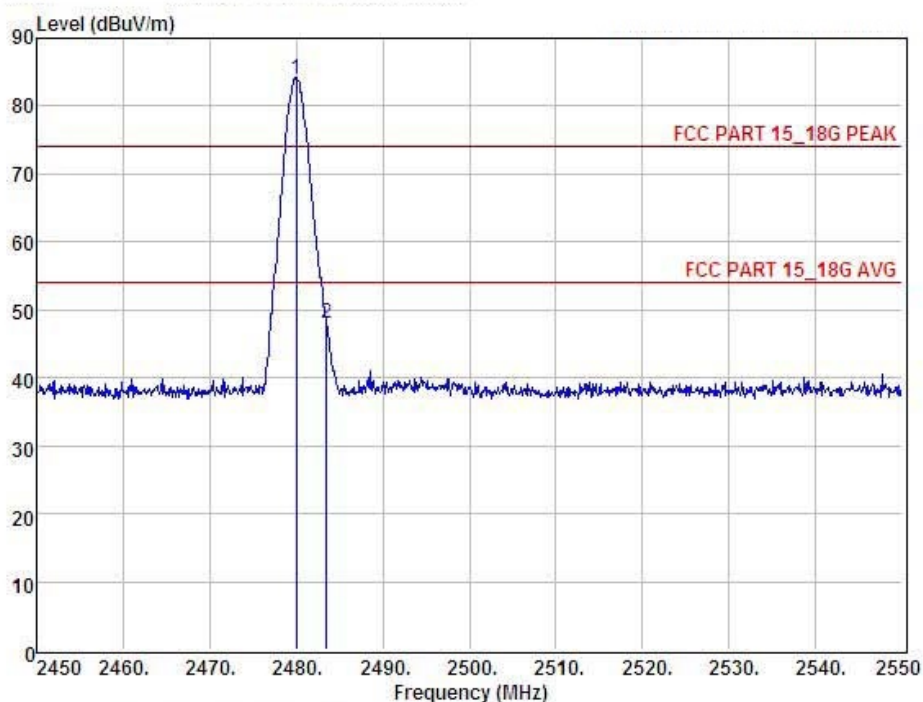Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH78 for 8-DPSK		

Condition   : FCC PART 15_18G PEAK 3m   POL: HORIZONTAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	87.29	27.59	34.97	4.00	83.91	74.00	9.91	Peak
2	2483.50	52.01	27.59	34.97	4.00	48.63	74.00	-25.37	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	CH78 for 8-DPSK		


```
Condition     : FCC PART 15_18G PEAK 3m        POL: VERTICAL

 Item    Freq       Read      Antenna     Preamp    Cable     Level    Limit    Margin    Remark
                    Level     Factor      Factor    Loss
         MHz        dBuV        dB          dB        dB      dBuV     dBuV      dBuV
-------  --------  ---------  ----------  --------  --------  ------   ------   -------   ---------
    1   2480.00     87.28      27.59       34.97     4.00     83.90    74.00     9.90      Peak
    2   2483.50     51.50      27.59       34.97     4.00     48.12    74.00    -25.88     Peak


Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
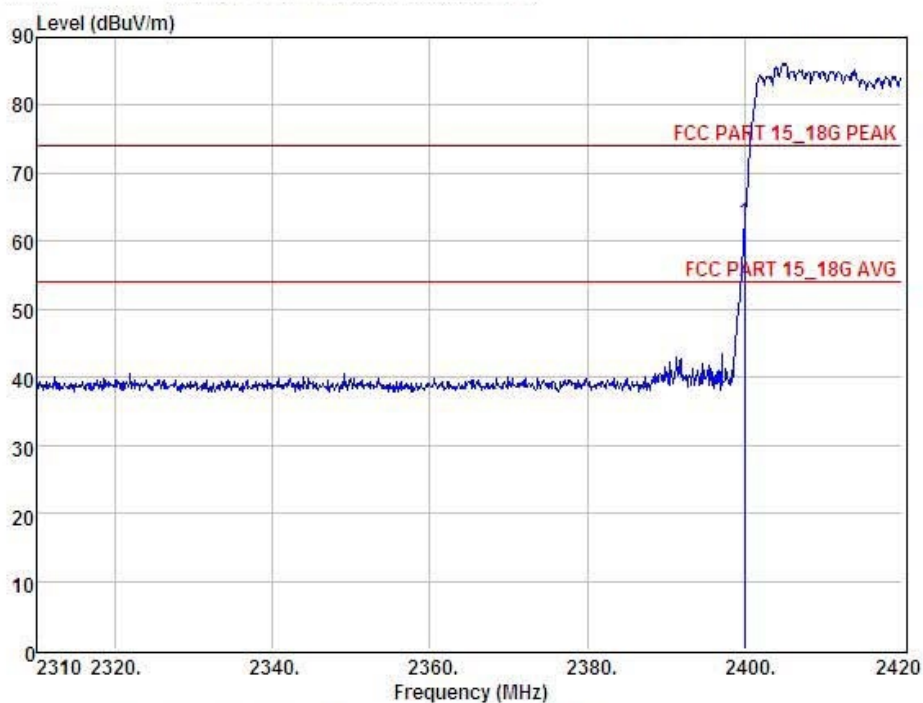
EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Horizontal
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	Hopping for 8-DPSK		


```
Condition    : FCC PART 15_18G PEAK 3m        POL: HORIZONTAL
  Item    Freq      Read      Antenna    Preamp    Cable    Level    Limit    Margin    Remark
                    Level     Factor     Factor    Loss
          MHz       dBuV      dB         dB        dB       dBuV     dBuV     dBuV
------- -------- ---------- -------- ---------- ------   ------   ------   -------  ---------
    1   2399.98    66.08     27.62      34.97     3.94    62.67    74.00   -11.33    Peak


    Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
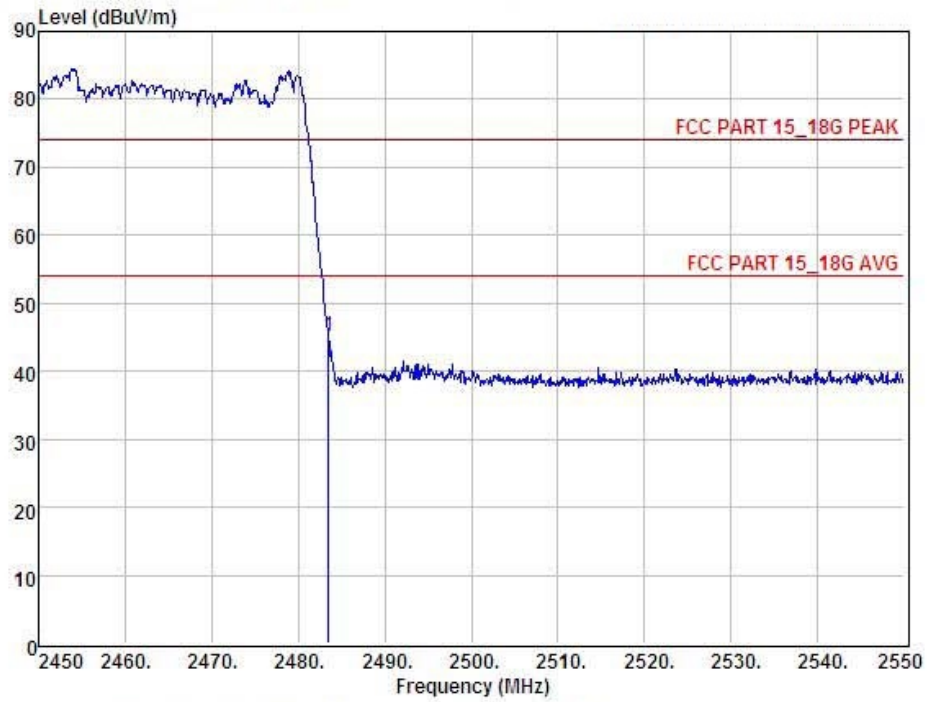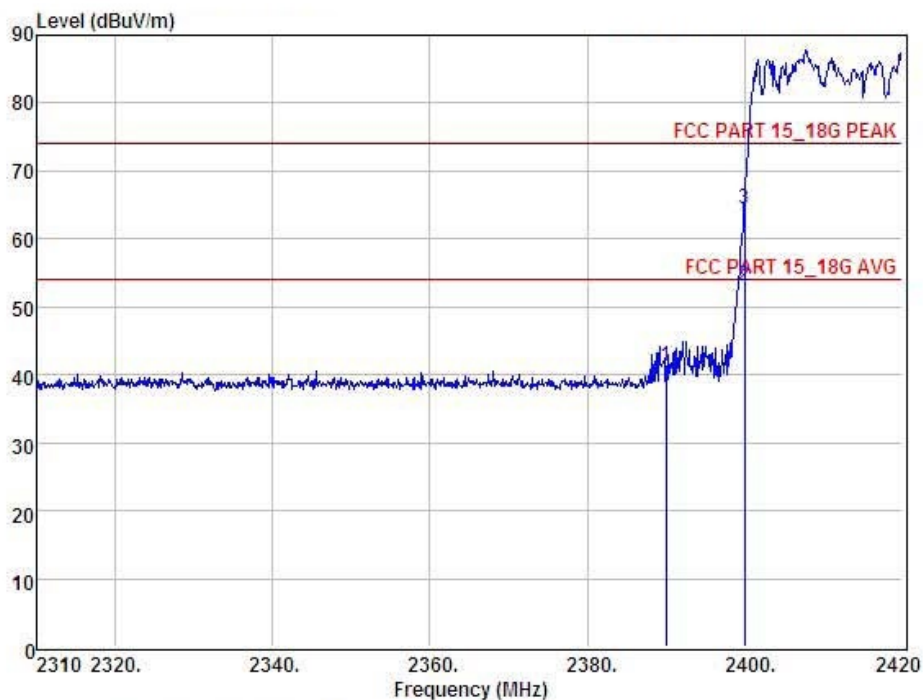
Condition   : FCC PART 15_18G PEAK 3m   POL: HORIZONTAL

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	48.42	27.59	34.97	4.00	45.04	74.00	-28.96	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Polarization :	Vertical
Test Voltage ：	DC 5V from adapter with AC 120V/60Hz		
Test Mode ：	Hopping for 8-DPSK		


```
Condition    : FCC PART 15 18G PEAK 3m      POL: VERTICAL
  Item    Freq      Read      Antenna    Preamp    Cable    Level     Limit     Margin    Remark
                    Level     Factor     Factor    Loss
          MHz       dBuV      dB         dB        dB       dBuV      dBuV      dBuV
  ------- --------  ---------- ---------  --------- ------   ------    ------    -------   ---------
     1   2390.00    44.64     27.62      34.97     3.92     41.21     74.00     -32.79    Peak
     2   2400.00    56.43     27.62      34.97     3.94     53.02     54.00     -0.98     Average
     3   2400.00    67.84     27.62      34.97     3.94     64.43     74.00     -9.57     Peak


  Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss
```
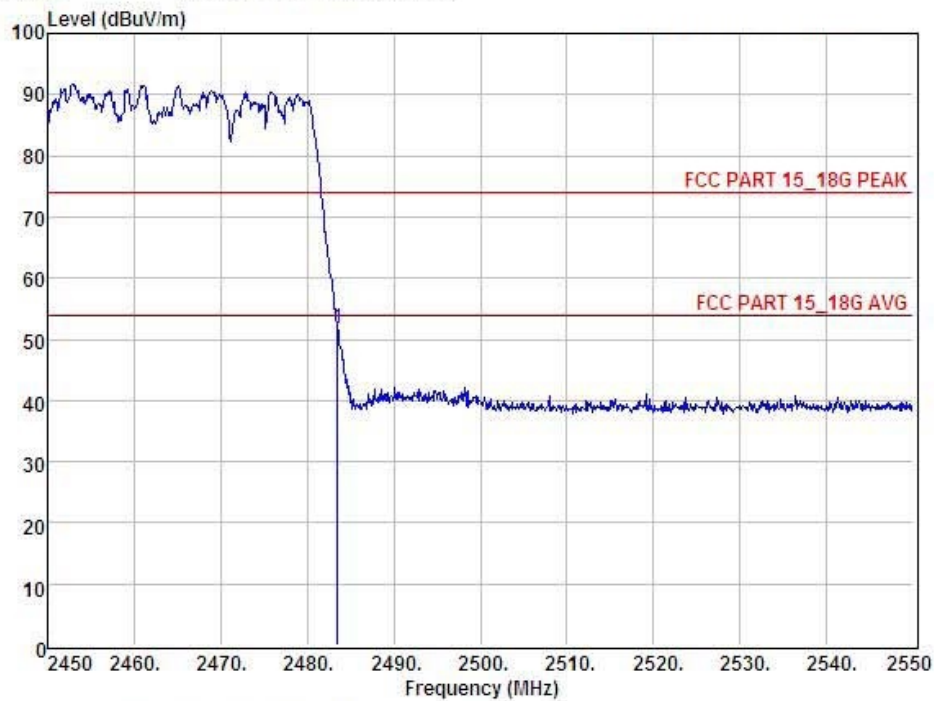
```
Condition     : FCC PART 15 18G PEAK 3m     POL: VERTICAL
  Item   Freq      Read     Antenna    Preamp   Cable   Level    Limit    Margin    Remark
                   Level    Factor     Factor   Loss
         MHz       dBuV     dB         dB       dB      dBuV     dBuV     dBuV
------- -------- ---------- -------- ---------- ------  ------   ------   -------  ----------
   1  2483.50     55.18      27.59     34.97    4.00    51.80    74.00    -22.20    Peak
```

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 300KHz, VBW=1000KHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

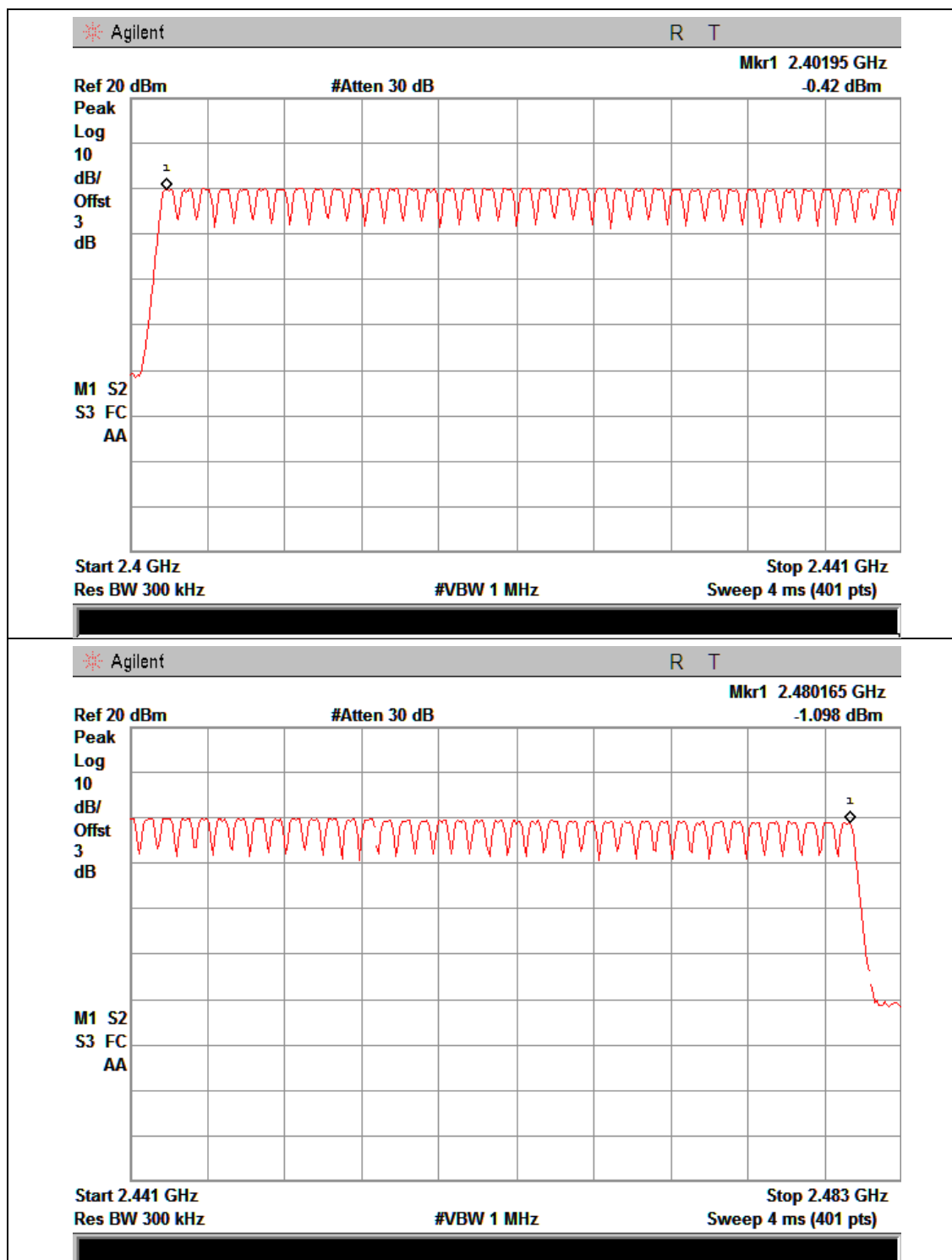No deviation.

4.1.3 TEST SETUP

4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	Hopping Mode for GFSK		

Number of Hopping Channel	79

√BZT

EUT：	Smartwatch	Model Name　：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage　：	DC 5V from adapter with AC 120V/60Hz
Test Mode　：	Hopping Mode for 8-DPSK		

Number of Hopping Channel	79
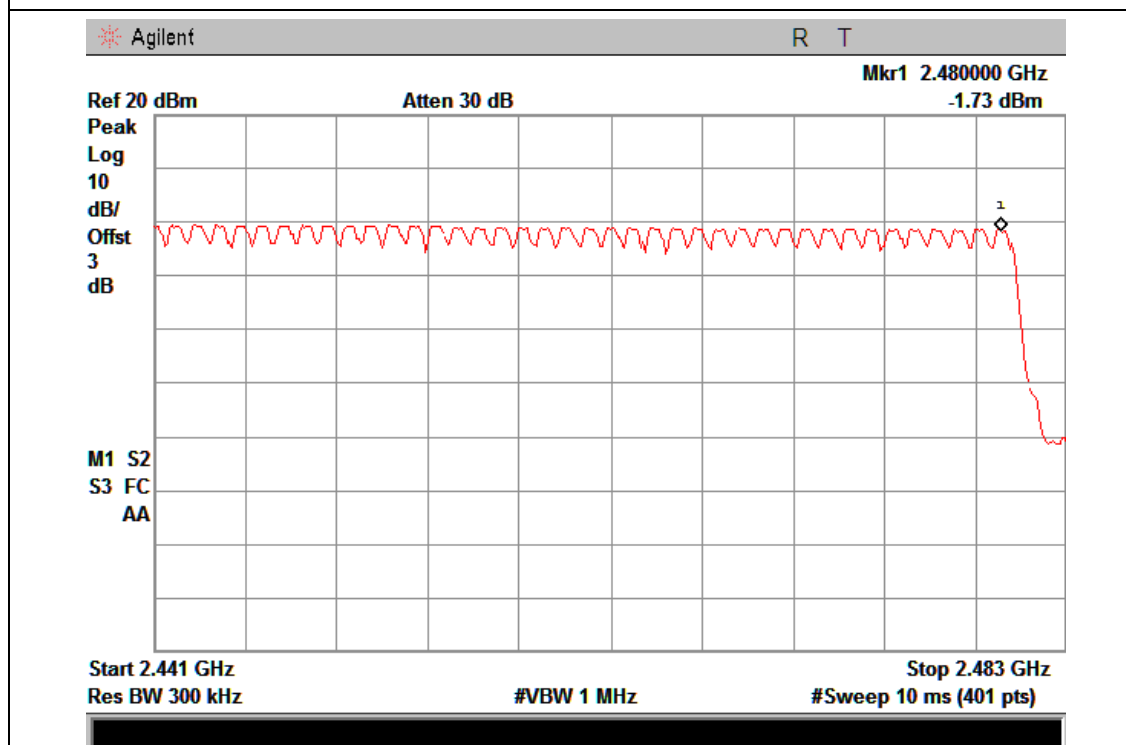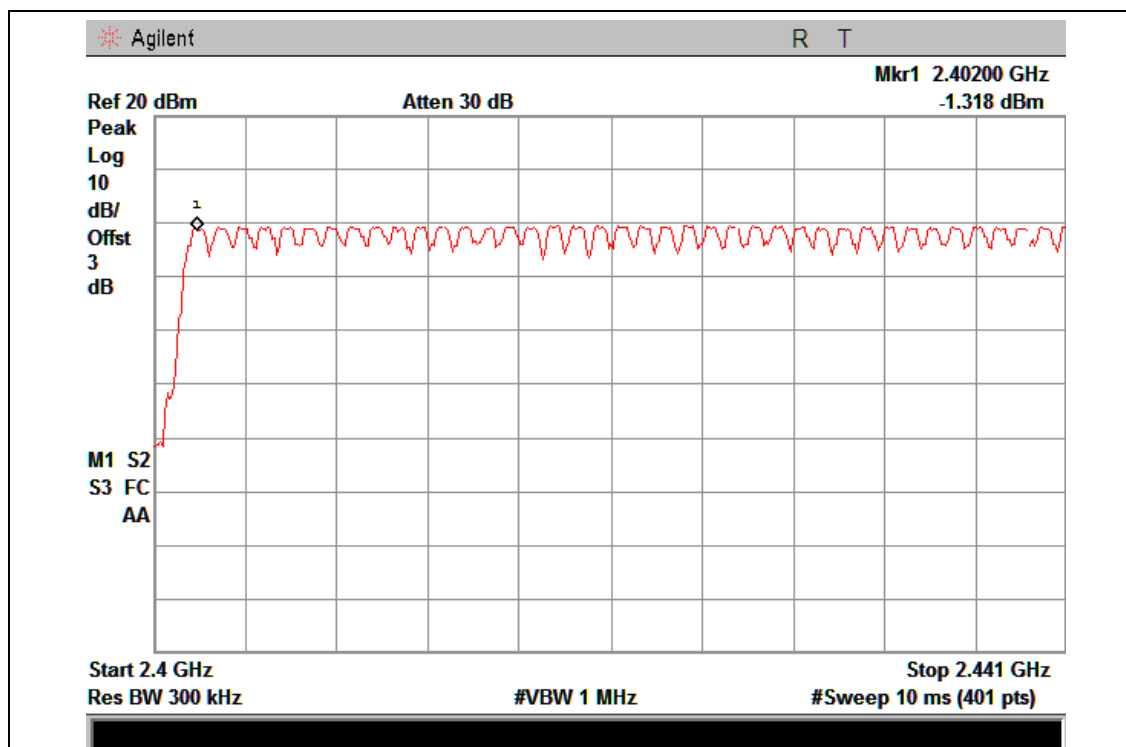
5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyzer

b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.

c. Use a video trigger with the trigger level set to enable triggering only on full pulses.

d. Sweep Time is more than once pulse time.

e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.

f. Measure the maximum time duration of one single pulse.

g. Set the EUT for DH5, DH3 and DH1 packet transmitting.

h. Measure the maximum time duration of one single pulse.

i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.

j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.

k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

5.1.2 DEVIATION FROM STANDARD

No deviation.
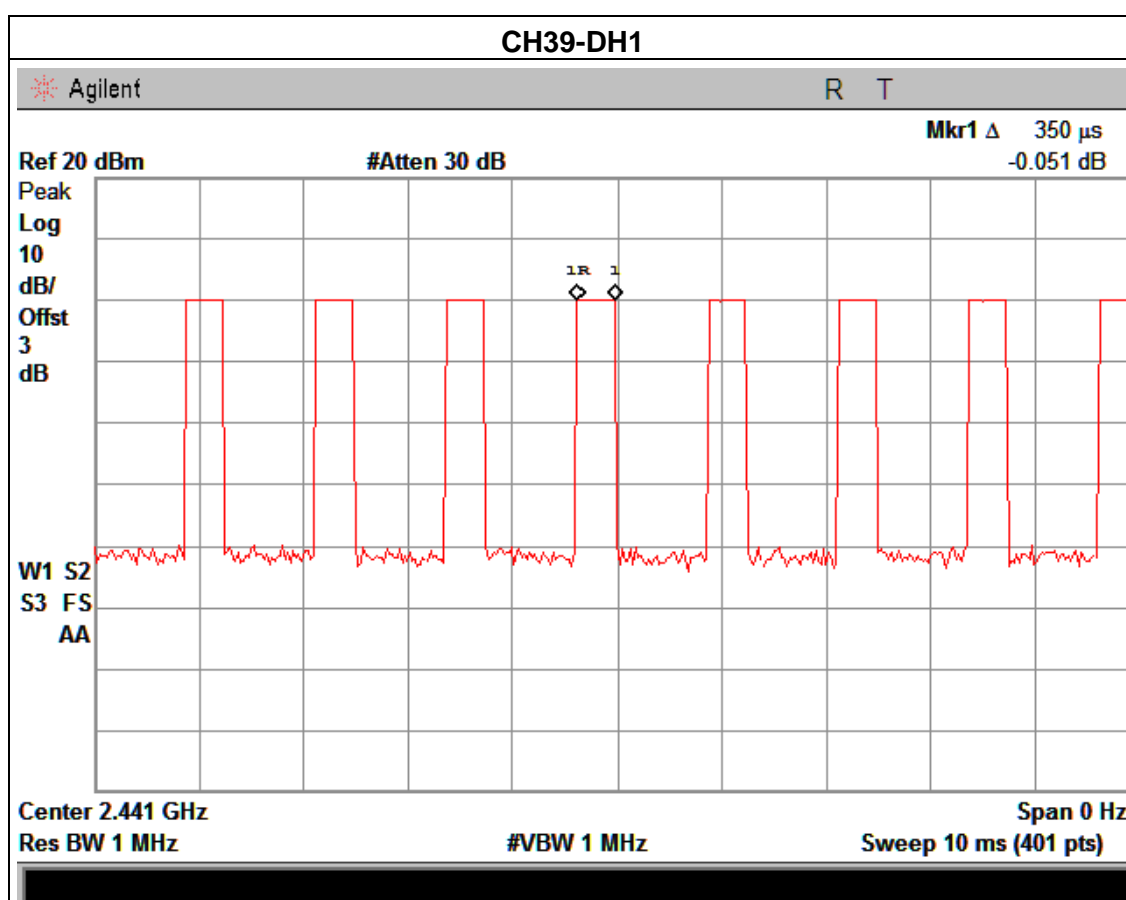
5.1.3 TEST SETUP

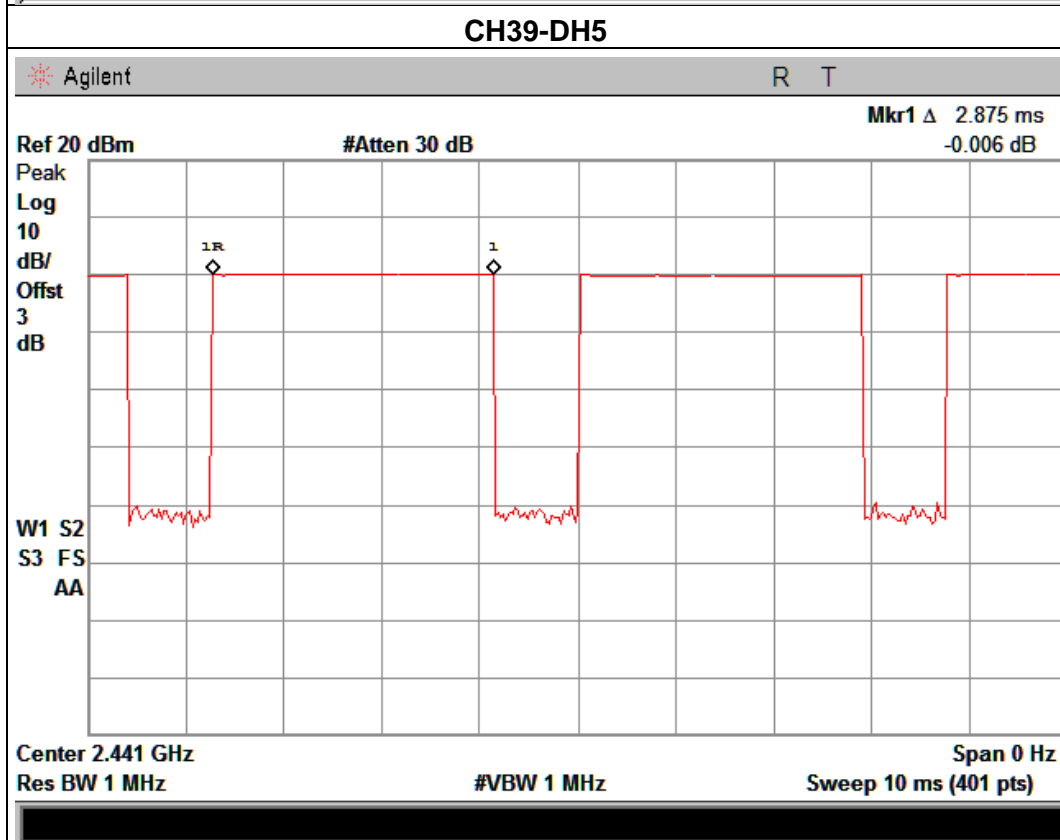### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	50%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH39-DH1/DH3/DH5 (1Mbps Mode) for GFSK		

Data Packet	Frequency (MHz)	Pluse Duration (ms)	Dwell Time (s)	Limit (s)
DH1	2402	0.350	0.224	0.4
DH3	2402	1.625	0.347	0.4
DH5	2402	2.875	0.368	0.4

CH39-DH1

CH39-DH3

Agilent	R T

Mkr1 Δ 1.625 ms
-0.116 dB

Ref 20 dBm   #Atten 30 dB

Peak
Log
10
dB/
Offst
3
dB

W1 S2
S3 FS
AA

Center 2.441 GHz   Span 0 Hz
Res BW 1 MHz   #VBW 1 MHz   Sweep 10 ms (401 pts)

CH39-DH5

Agilent	R T

Mkr1 Δ 2.875 ms
-0.006 dB

Ref 20 dBm   #Atten 30 dB

Peak
Log
10
dB/
Offst
3
dB

W1 S2
S3 FS
AA

Center 2.441 GHz   Span 0 Hz
Res BW 1 MHz   #VBW 1 MHz   Sweep 10 ms (401 pts)

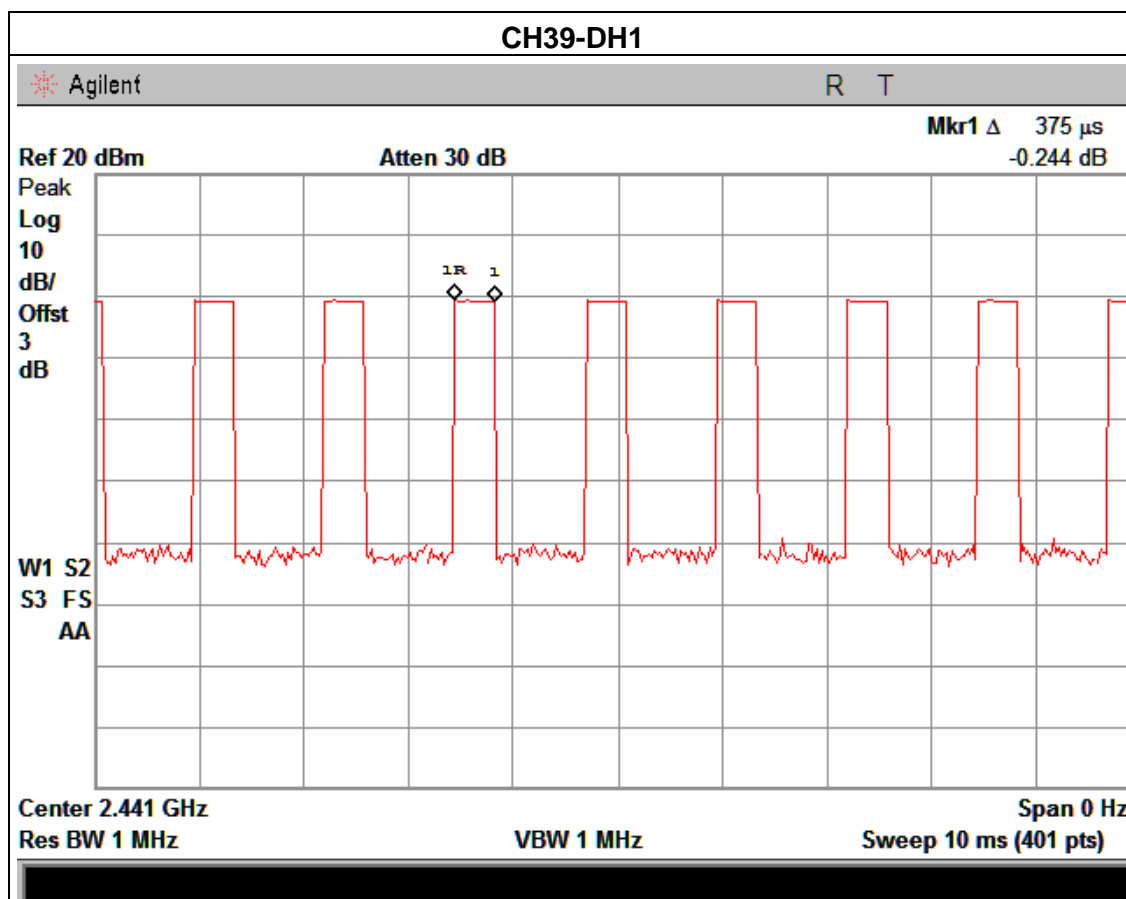| EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	50%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH39-DH1/DH3/DH5 (1Mbps Mode) for 8-DPSK		

Data Packet	Frequency (MHz)	Pluse Duration (ms)	Dwell Time (s)	Limit (s)
3-DH1	2402	0.375	0.240	0.4
3-DH3	2402	1.625	0.347	0.4
3-DH5	2402	2.875	0.368	0.4

CH39-DH1

CH39-DH3

CH39-DH5
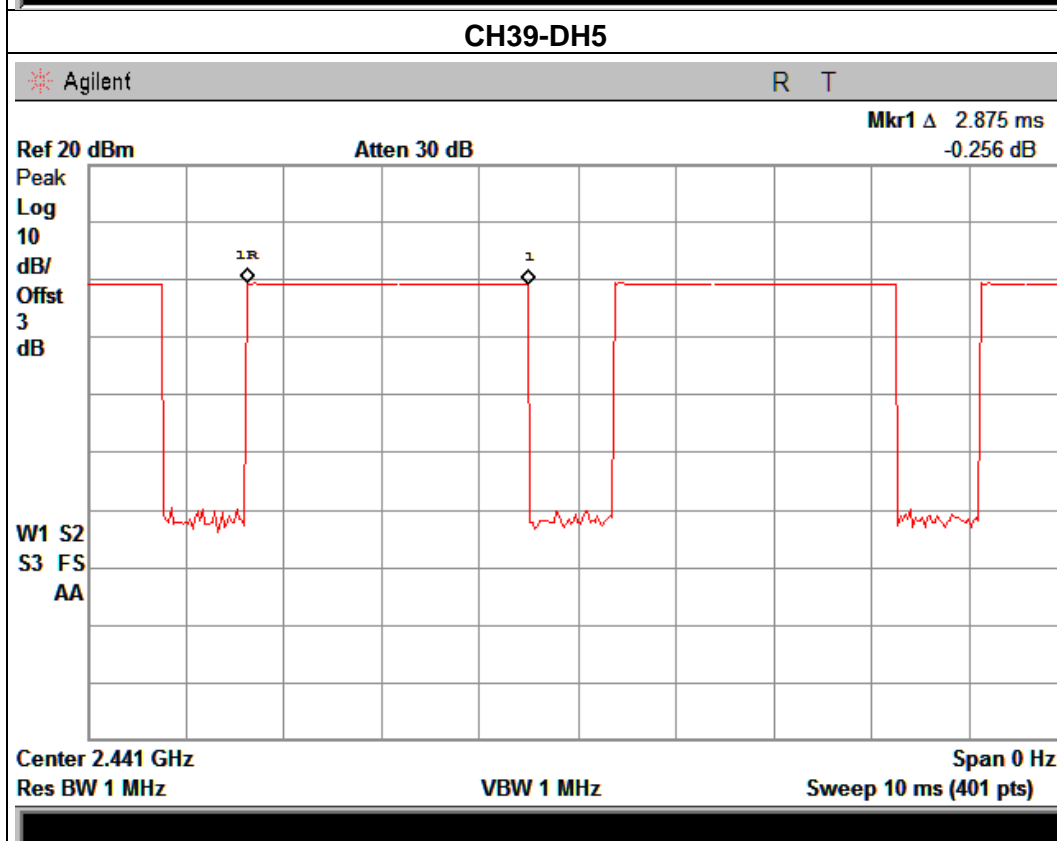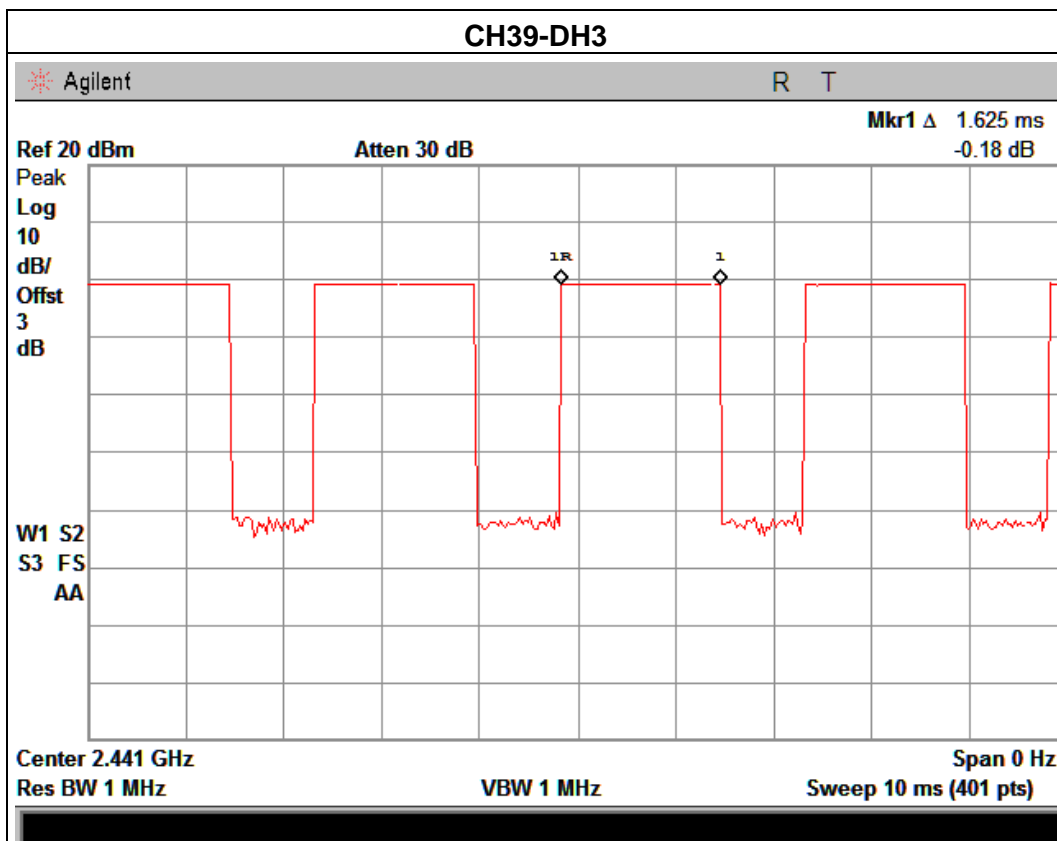
6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
c. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

Spectrum Analayzer   EUT
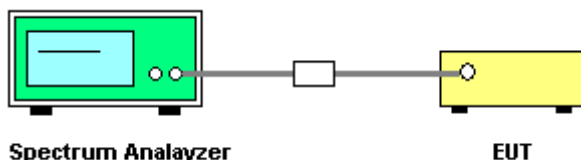
6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 TEST RESULTS

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	50%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH00 / CH39 /CH78 (1Mbps Mode)		

Mode	Ch. Separation (MHz)	Limit (MHz)	Result
GFSK	1.000	0.961	**Complies**
8-DPSK	1.000	0.814	**Complies**

Ch. Separation Limits: >20dB bandwidth for GFSK

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Freq	2.4400000 GHz	-4.299 dBm
1Δ	(1)	Freq	1.0000 MHz	-0.324 dB
2R	(1)	Freq	2.4410000 GHz	-4.623 dBm
2Δ	(1)	Freq	1.0000 MHz	-0.071 dB
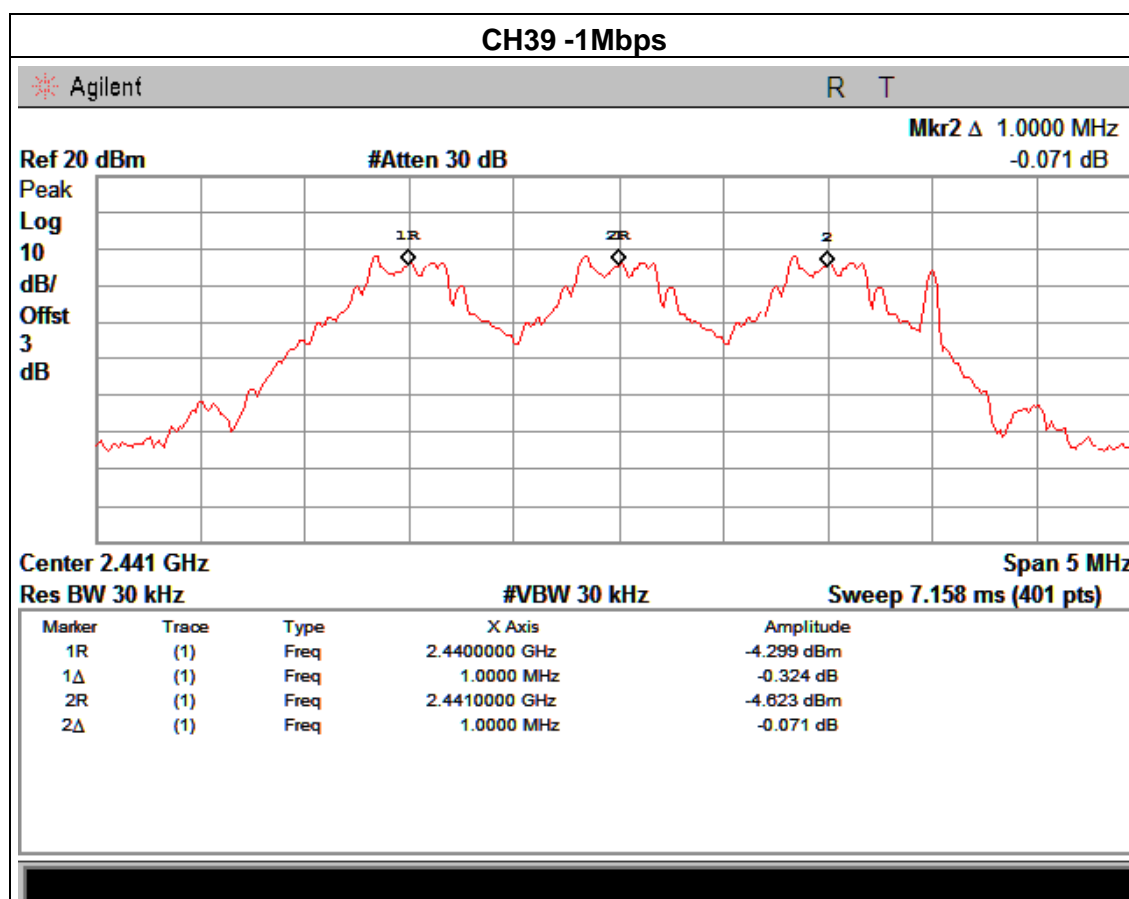
Ch. Separation Limits: >2/3 of 20dB bandwidth for 8-DPSK

CH39 -3Mbps

Agilent   R   T

Mkr2 Δ 1.0000 MHz
                                            0.056 dB

Ref 20 dBm   #Atten 30 dB

Peak
Log
10
dB/
Offst
3
dB

Center 2.441 GHz   Span 5 MHz
Res BW 30 kHz   #VBW 30 kHz   Sweep 7.158 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Freq	2.4400000 GHz	-5.404 dBm
1Δ	(1)	Freq	1.0000 MHz	0.474 dB
2R	(1)	Freq	2.4410000 GHz	-4.93 dBm
2Δ	(1)	Freq	1.0000 MHz	0.056 dB
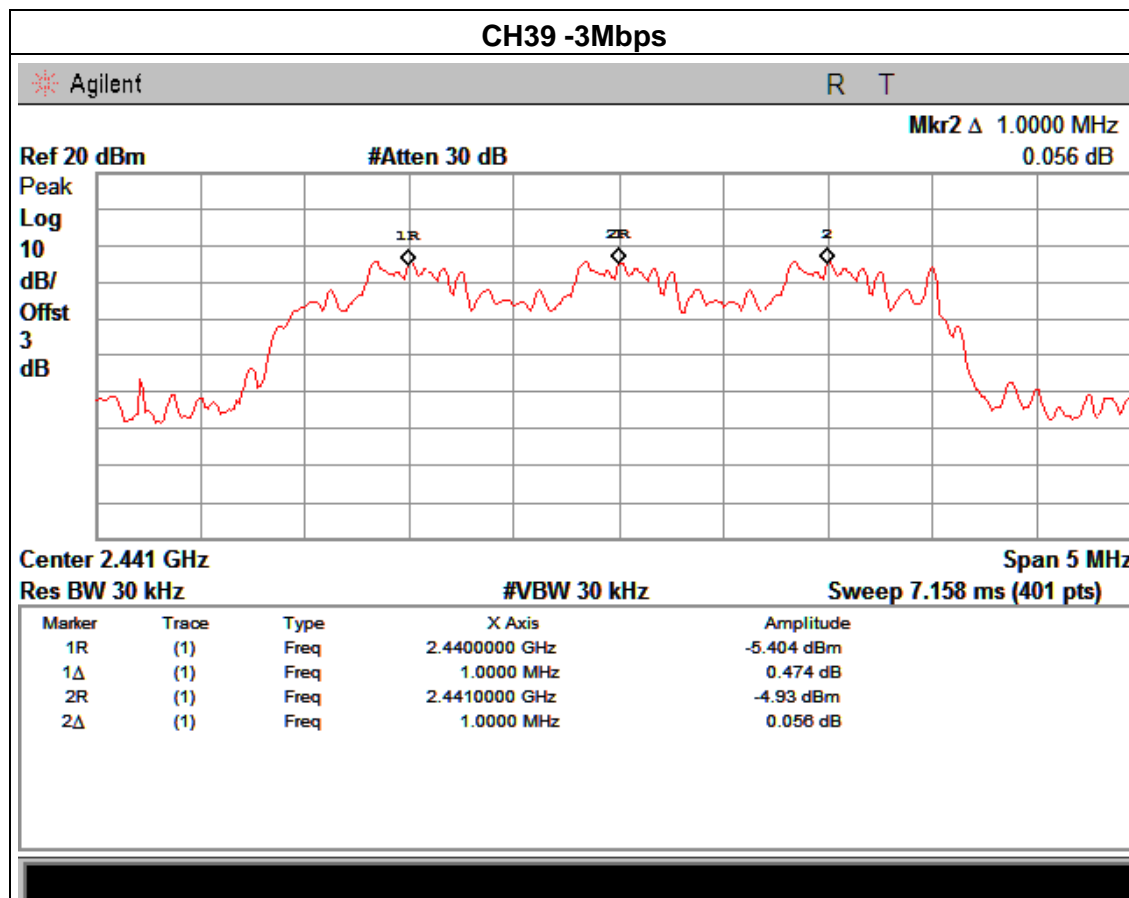
7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW= 30KHz, VBW=30KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.
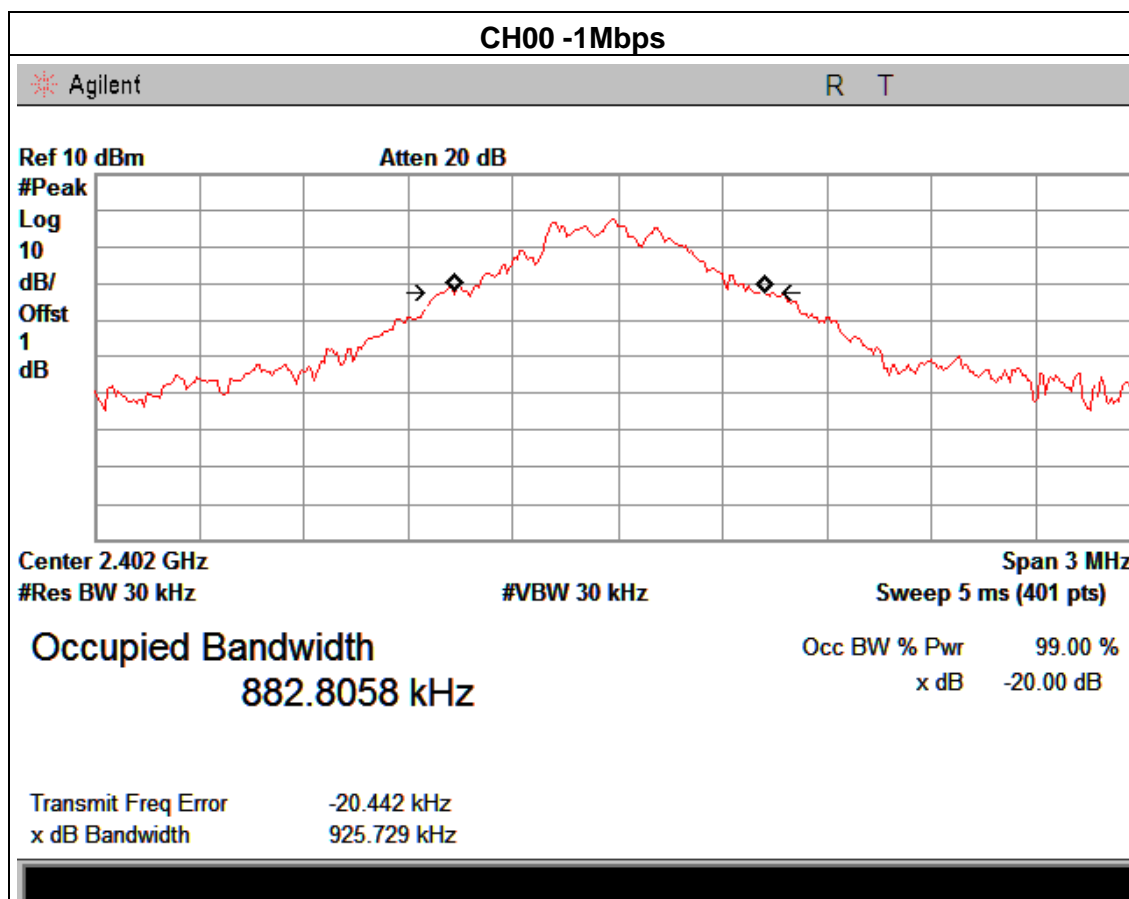
7.1.3 TEST SETUP

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 TEST RESULTS

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	50%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH00 / CH39 /C78 For GFSK		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	925.729	**PASS**
2441 MHz	960.631	**PASS**
2480 MHz	871.236	**PASS**

CH00 -1Mbps

Agilent   R T

Ref 10 dBm   Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB

Center 2.402 GHz   Span 3 MHz
#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth   Occ BW % Pwr   99.00 %
   882.8058 kHz   x dB   -20.00 dB

Transmit Freq Error   -20.442 kHz
x dB Bandwidth   925.729 kHz

✓BZT

CH39 -1Mbps

Agilent   R   T

Ref 10 dBm   Atten 20 dB
#Peak
Log
10
dB/
Offst
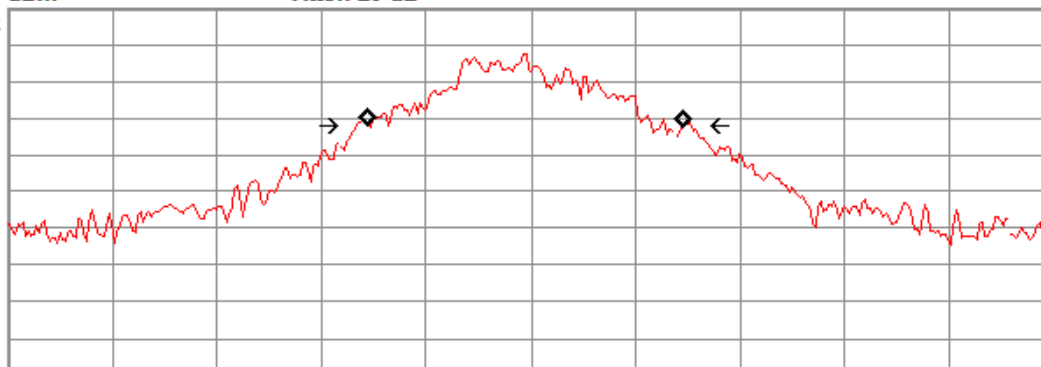1
dB

Center 2.441 GHz   Span 3 MHz
#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth
899.5555 kHz

Occ BW % Pwr   99.00 %
x dB   -20.00 dB

Transmit Freq Error   -16.413 kHz
x dB Bandwidth   960.631 kHz

CH78 -1Mbps

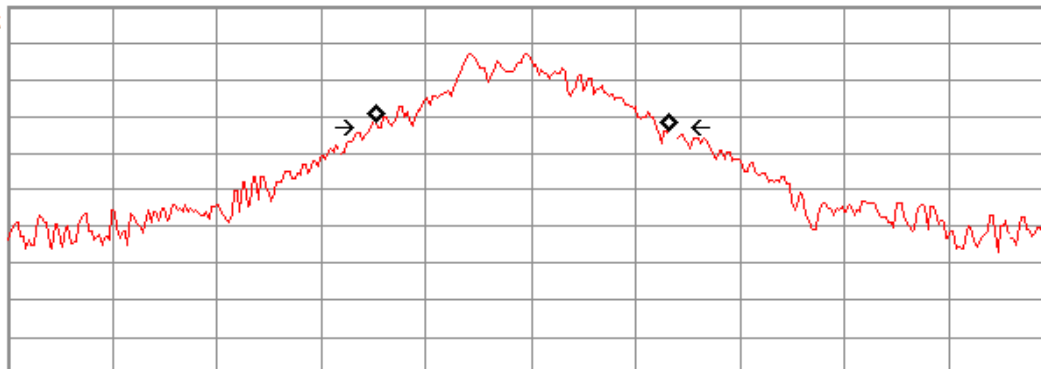Agilent   R   T

Ref 10 dBm   Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB

Center 2.48 GHz   Span 3 MHz
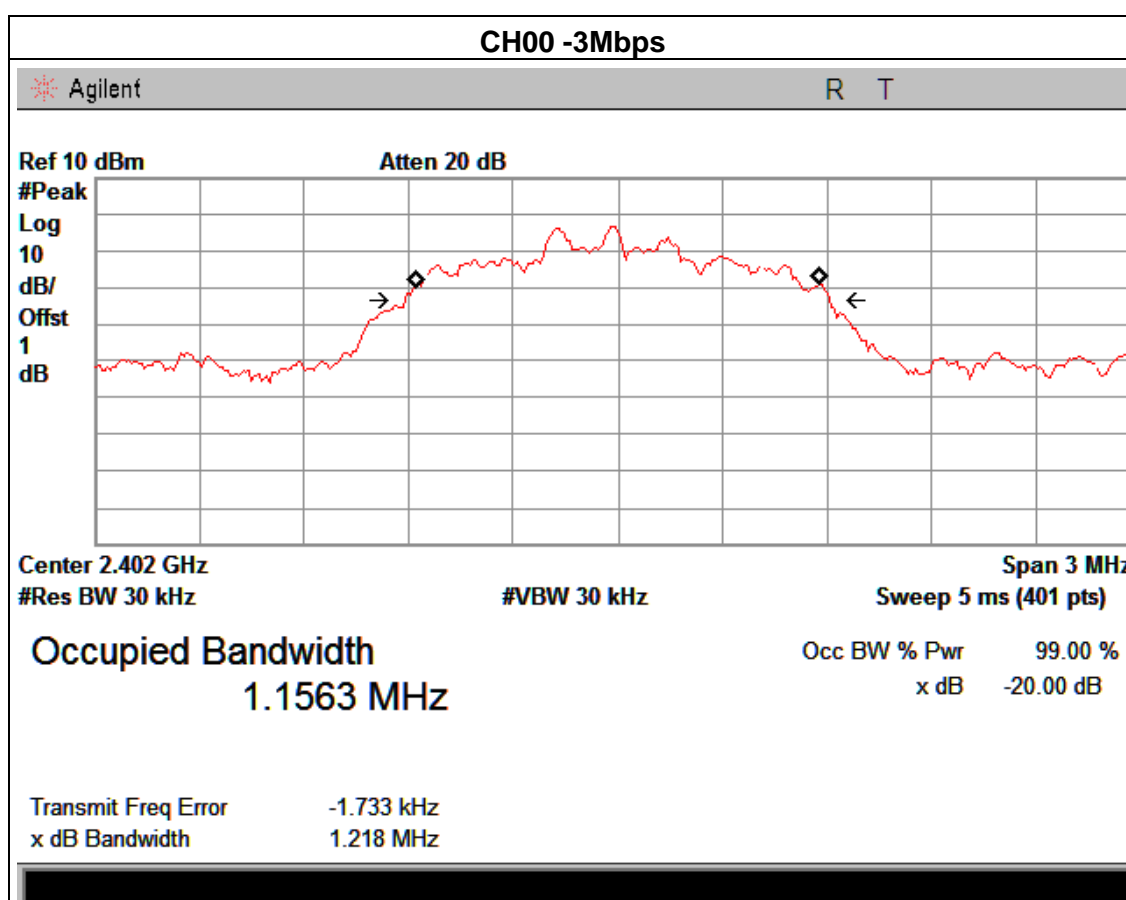#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth
834.3833 kHz

Occ BW % Pwr   99.00 %
x dB   -20.00 dB

Transmit Freq Error   -22.816 kHz
x dB Bandwidth   871.236 kHz

✓BZT

EUT：	Smartwatch	Model Name ：	NXK-A01-A1
Temperature：	25 ℃	Relative Humidity：	50%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH00 / CH39 /C78 For 8-DPSK		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.218	**PASS**
2441 MHz	1.215	**PASS**
2480 MHz	1.221	**PASS**

CH00 -3Mbps

Agilent   R T

Ref 10 dBm   Atten 20 dB
#Peak
Log
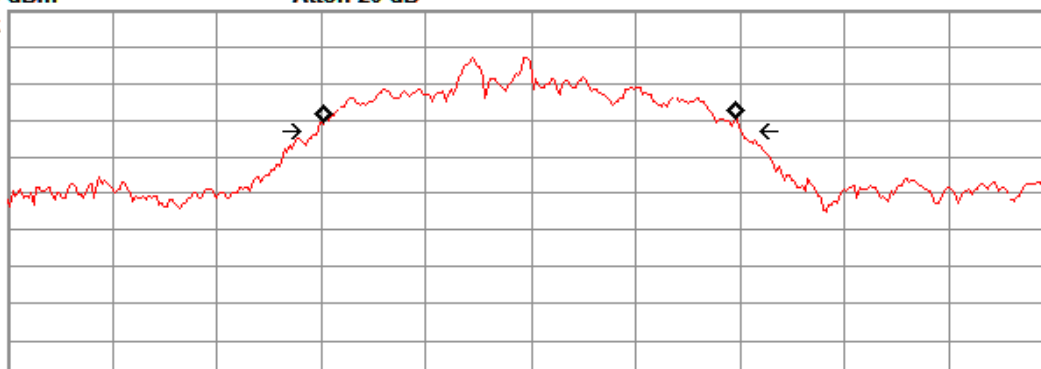10
dB/
Offst
1
dB

Center 2.402 GHz   Span 3 MHz
#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth
   1.1563 MHz

Occ BW % Pwr   99.00 %
x dB   -20.00 dB

Transmit Freq Error   -1.733 kHz
x dB Bandwidth   1.218 MHz

CH39 -3Mbps

Agilent   R   T

Ref 10 dBm   Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB

Center 2.441 GHz   Span 3 MHz
#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth   Occ BW % Pwr   99.00 %
    1.1751 MHz   x dB   -20.00 dB

Transmit Freq Error   -3.704 kHz
x dB Bandwidth   1.215 MHz

CH78 -3Mbps

Agilent   R   T
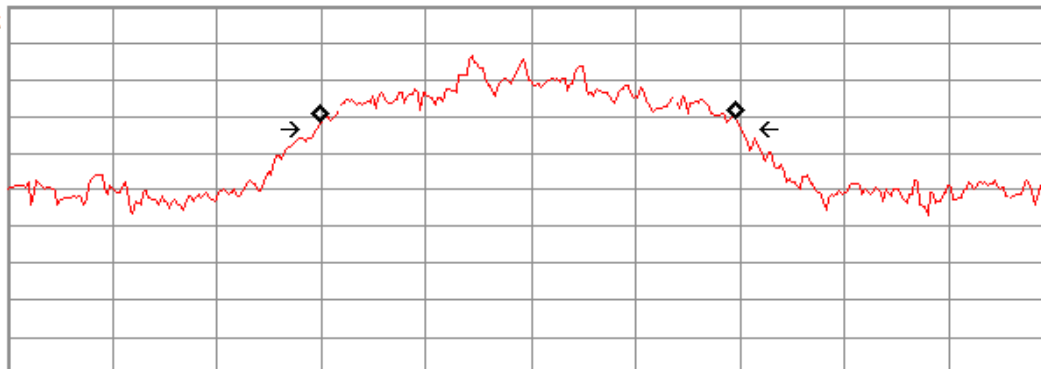
Ref 10 dBm   Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB

Center 2.48 GHz   Span 3 MHz
#Res BW 30 kHz   #VBW 30 kHz   Sweep 5 ms (401 pts)

Occupied Bandwidth   Occ BW % Pwr   99.00 %
    1.1815 MHz   x dB   -20.00 dB

Transmit Freq Error   -6.909 kHz
x dB Bandwidth   1.221 MHz

8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 TEST RESULTS

EUT：	Mobile phone	Model Name ：	CHIC MINI D113
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH00/ CH39 /CH78 (1Mbps Mode) For GFSK		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	3.18	30	1
CH39	2441	3.25	30	1
CH78	2480	3.32	30	1

EUT：	Mobile phone	Model Name ：	CHIC MINI D113
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from adapter with AC 120V/60Hz
Test Mode ：	CH00/ CH39 /CH78 (3Mbps Mode) For 8-DPSK		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	3.04	21	1
CH39	2441	2.68	21	1
CH78	2480	2.82	21	1

# 9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT ANTENNA

The EUT antenna is integral Antenna. It comply with the standard requirement.

10. EUT TEST PHOTO

Radiated Measurement Photos

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Radiated Measurement Photos
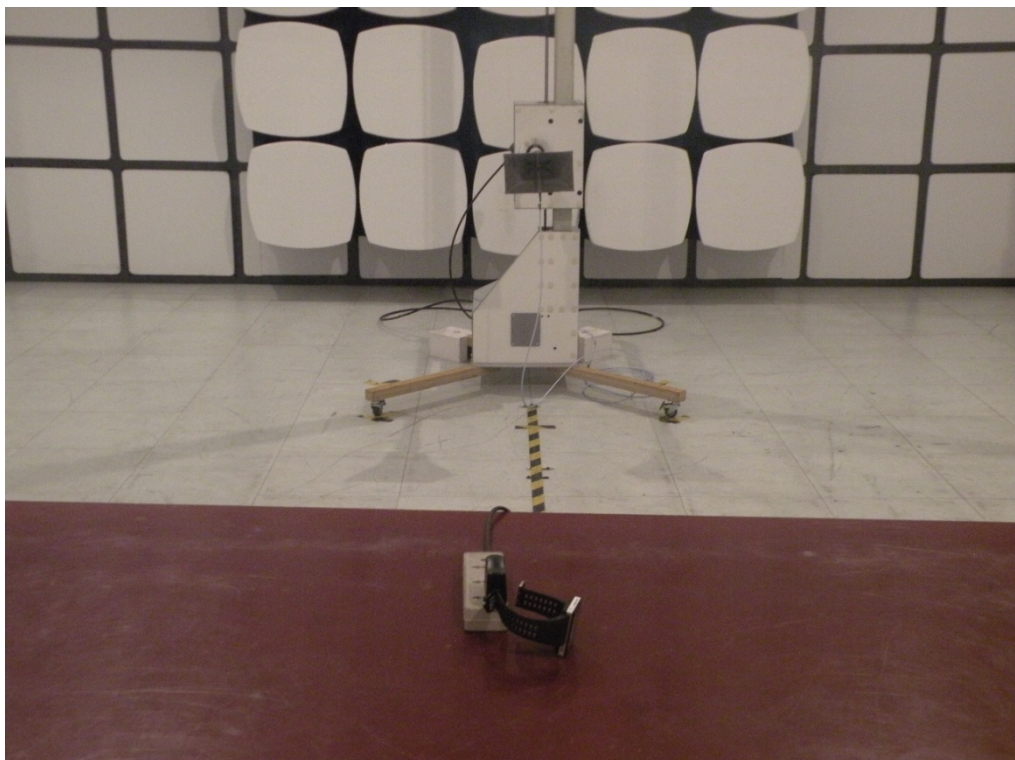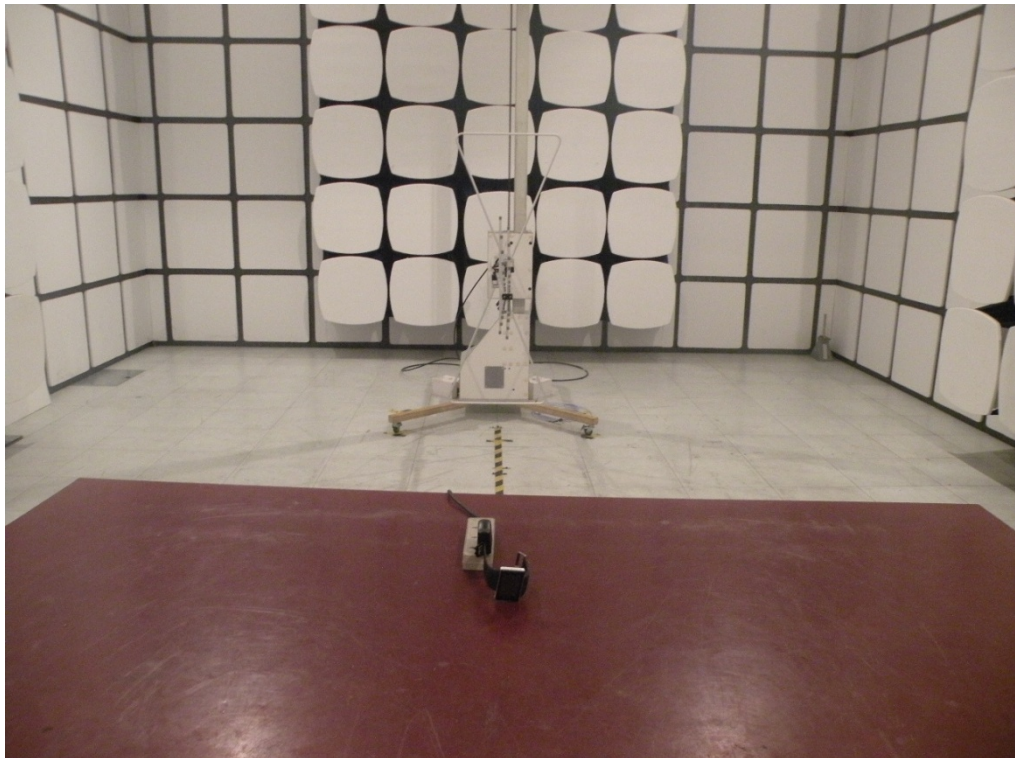
Conduction Measurement Photos

End of report