

JAPAN SPECIFIED RADIO TEST REPORT
for
Anker Japan Co.,Ltd.

SoundBuds Sport NB10
Model No.: A3260

Prepared For : Anker Japan Co.,Ltd.
Address : 3F Ichigo Shinkawa Bldg, 2-22-1, Shinkawa, Chuo-ku, Tokyo,
Japan.

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Report Number : SZAWW180522005-01
Date of Test : May 25~31, 2018
Date of Report : May 31, 2018

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TEST REPORT

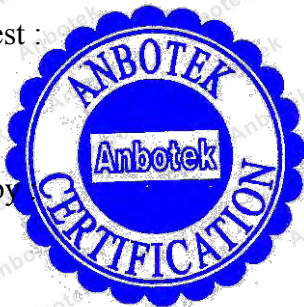
Applicant : Anker Japan Co.,Ltd.
Manufacturer : Shenzhen Cannice Technology Co., Ltd. Dongguan Branch
EUT : SoundBuds Sport NB10
Model No. : A3260
Trade Mark : ANKER
Rating : Input: DC 5V, 100mA (with DC 3.7V, 60 mAh Battery inside)

Measurement Procedure Used:
MIC Notice No.88 Annex43
Certificate regulation article 2, paragraph 1, item 19

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the MIC Notice No.88 Annex43 and Certificate regulation article 2, paragraph 1, item 19 requirements.
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Test : May 25~31, 2018

Prepared by



(Tested Engineer / Winkey Wang)

Reviewer :

(Project Manager / Tangcy. T)

Approved & Authorized Signer :

(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: SoundBuds Sport NB10
Model Number	: A3260
Test Power Supply	: DC 3.7V Battery
Frequency	: 2402-2480MHz
Channels	: 79
Modulation Mode	: GFSK, π /4DQPSK, 8DPSK
Antenna Specification	Ceramic Antenna : 2.1 dBi Max.
Rated output Power	: 0.04 mW/MHz
Applicant Address	: Anker Japan Co.,Ltd. : 3F Ichigo Shinkawa Bldg, 2-22-1, Shinkawa, Chuo-ku, Tokyo, Japan.
Manufacturer Address	: Shenzhen Cannice Technology Co., Ltd. Dongguan Branch : 4F, Office Building, No. 70 Puxinhu Dongguan City, Guangdong Province, P.R.China
Factory Address	: Shenzhen Cannice Technology Co., Ltd. Dongguan Branch : 4F, Office Building, No. 70 Puxinhu Dongguan City, Guangdong Province, P.R.China
Date of receiver	: May 25, 2018
Date of Test	: May 25~31, 2018

1.2. Auxiliary Equipment Used during Test

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1.3. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotech Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)
Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

1.5. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel 1(2402MHz), Channel 40(2441MHz) and Channel 79(2480MHz) are chosen to be tested.

2. Summary of Test

Test Items	Subclause	Required	Results
General Provisions			
Frequency Tolerance	5	Yes	Complies
Occupied Bandwidth	6	Yes	Complies
Spurious Emissions	7	Yes	Complies
Transmitting equipment			
Antenna power	14	Yes	Complies
SAR	14.2	N/A	N/A
Frequency stabilization	15	Yes	Complies
Transmitter antenna			
Type, configuration, etc. of transmitting antenna	20	Yes	Complies
Directional pattern of transmitting antenna	22	Yes	Complies
Receiving equipment			
Spurious emission of receiver	24	Yes	Complies
Refer to all articles for transmitter antenna	26	Yes	Complies
Operating frequency 2400-2483.5MHz			
High Frequency/modulation section cannot be opened easily	49.20(1); a	Yes	Complies
Communication method	49.20(1); b	N/A	N/A
Modulation method	49.20(1); c	Yes	Complies
Spread spectrum method	49.20(1); d	Yes	Complies
Antenna power	49.20(1); e	Yes	Complies
Absolute gain of transmitting antenna	49.20(1); f(1)	Yes	Complies
Angular width of principal radiation (AWPR)	49.20(1); f(2)	Yes	Complies
Number of carriers within 1 MHz bandwidth in OFDM	49.20(1); g	Yes	Complies
Diffusion bandwidth	49.20(1); h	Yes	Complies
Spreading factor	49.20(1); i	Yes	Complies
Dwell time measurement	49.20(1); j	Yes	Complies
Carrier sensing function	--	N/A	N/A

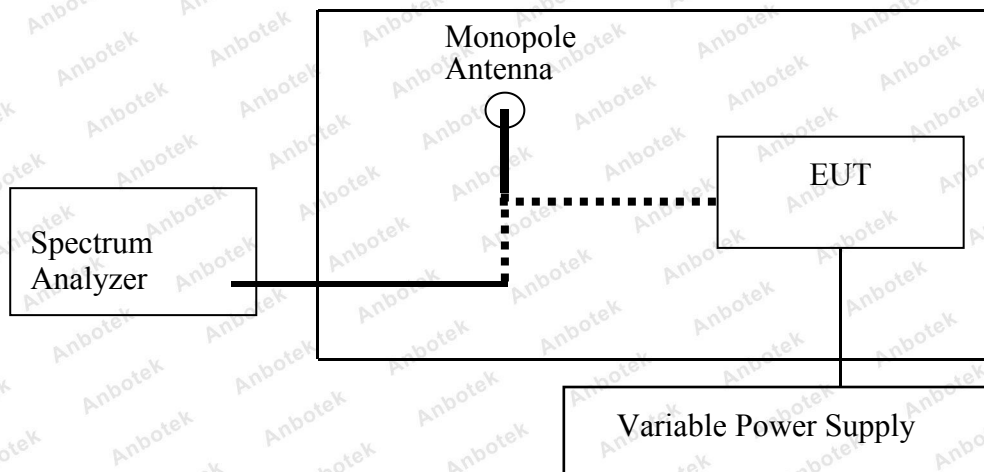
3. FREQUENCY TOLERANCE TEST

3.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80 B	ZJ-17042804	Nov. 01, 2017	1 Year

3.2 Test Configuration

Temperature Chamber



3.3 Test Results

Low Voltage: DC 3.33V

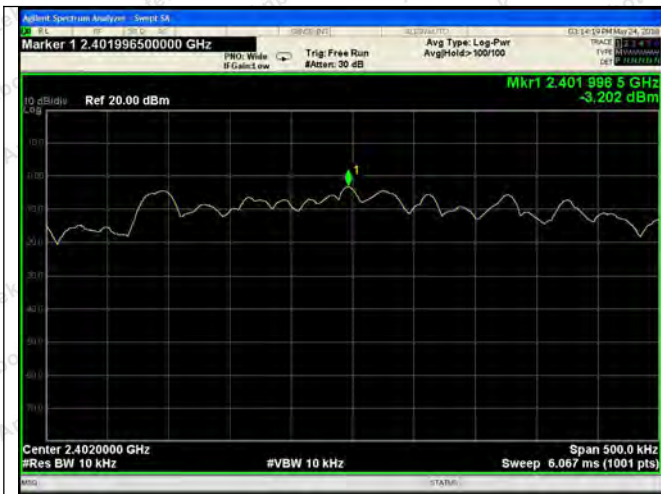
Frequency(MHz)	Reading(MHz)	Tolerance(ppm)	Limit(ppm)
2402.0000	2401.9963	-1.54	50
2441.0000	2440.9958	-1.72	50
2480.0000	2479.9973	-1.09	50

High Voltage: DC 4.07V

Frequency(MHz)	Reading(MHz)	Tolerance(ppm)	Limit(ppm)
2402.0000	2401.9967	-1.37	50
2441.0000	2440.9962	-1.56	50
2480.0000	2479.9977	-0.93	50

Normal Voltage: DC 3.70V

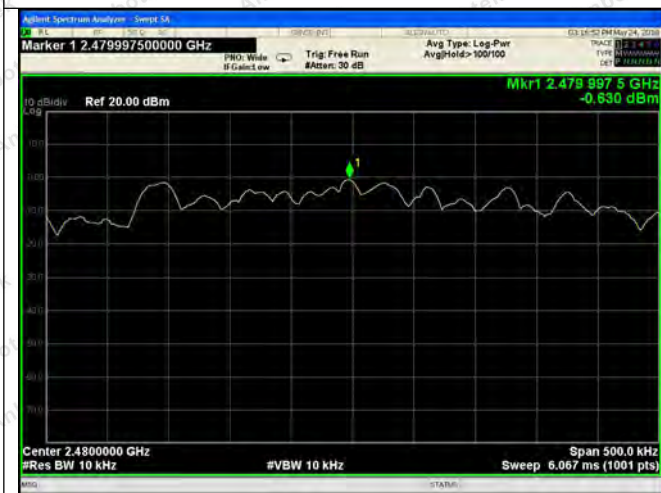
Frequency(MHz)	Reading(MHz)	Tolerance(ppm)	Limit(ppm)
2402.0000	2401.9965	-1.46	50
2441.0000	2440.9960	-1.64	50
2480.0000	2479.9975	-1.01	50



Frequency Error--2402MHz



Frequency Error--2441MHz



Frequency Error--2480MHz



4. OCCUPIED BANDWIDTH (99%) TEST

4.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

4.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

4.3 Test Results

The limits of standard are as follows:

Under all test conditions	FH: 83.5 MHz
	FH + DS: 83.5 MHz
	FH + OFDM: 83.5MHz
	OFDM, DS: 26MHz
	Others: 26MHz
	OFDM equipment with 40MHz channel separation: 38MHz

Pass.

Please refer to the following data.

Low Voltage: DC 3.33V

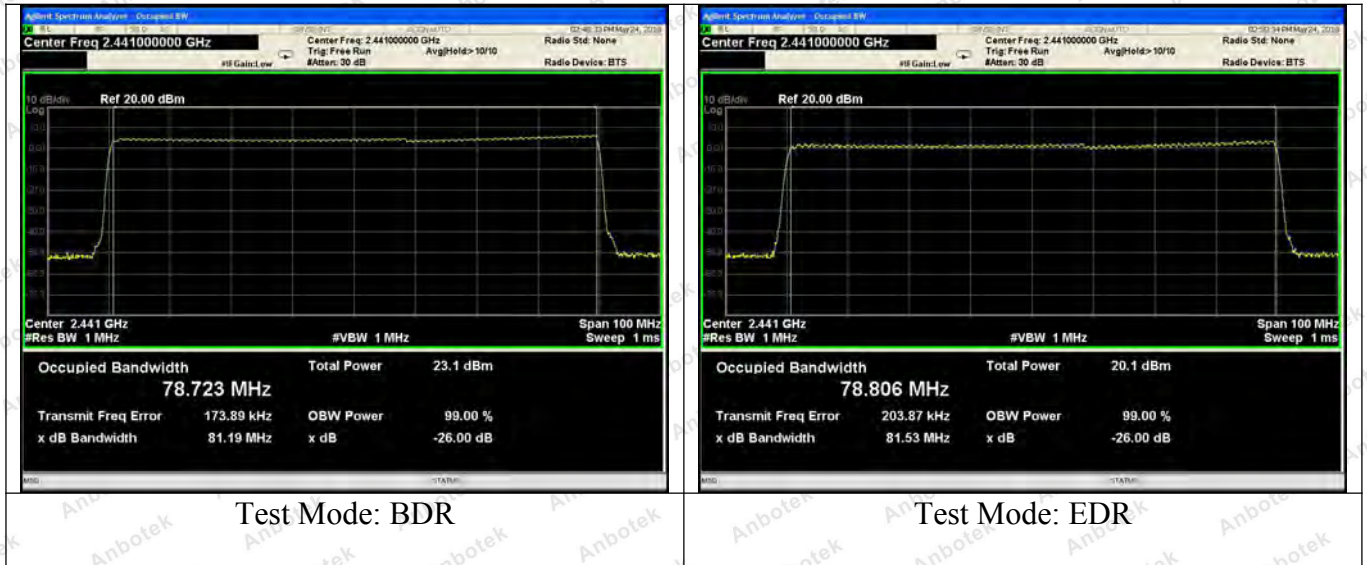
Frequency(MHz)	99% Bandwidth(MHz)	Remark
2402-2480	78.721	BDR
2402-2480	78.804	EDR

High Voltage: DC 4.07V

Frequency(MHz)	99% Bandwidth(MHz)	Remark
2402-2480	78.725	BDR
2402-2480	78.808	EDR

Normal Voltage: DC 3.70V

Frequency(MHz)	99% Bandwidth(MHz)	Remark
2402-2480	78.723	BDR
2402-2480	78.806	EDR



5. SPREAD-SPECTRUM BANDWIDTH (90%) TEST

5.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

5.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

5.3 Test Results

Pass.

Please refer to the following data.

Low Voltage: DC 3.33V

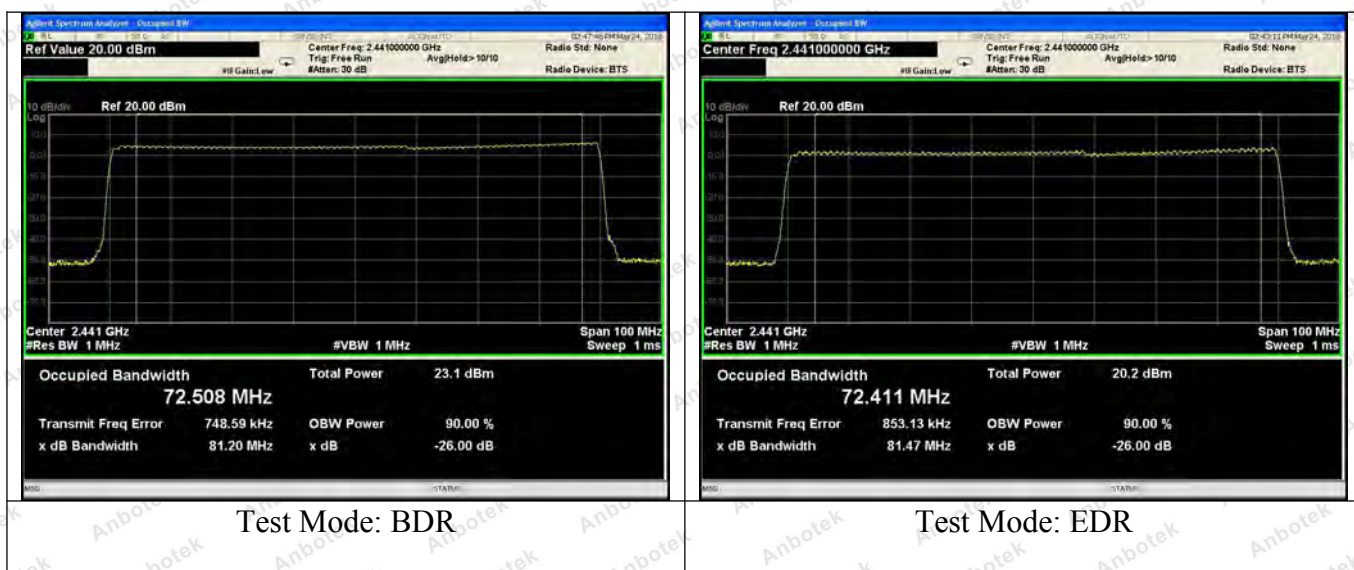
Frequency(MHz)	90% Bandwidth(MHz)	Limit (MHz)	Remark
2402-2480	72.506	≥ 0.5	BDR
2402-2480	72.410	≥ 0.5	EDR

High Voltage: DC 4.07V

Frequency(MHz)	90% Bandwidth(MHz)	Limit (MHz)	Remark
2402-2480	72.510	≥ 0.5	BDR
2402-2480	72.413	≥ 0.5	EDR

Normal Voltage: DC 3.70V

Frequency(MHz)	90% Bandwidth(MHz)	Limit (MHz)	Remark
2402-2480	72.508	≥ 0.5	BDR
2402-2480	72.411	≥ 0.5	EDR



6. SPURIOUS EMISSIONS INTENSITY TEST

6.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

6.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

6.3 Test Results

Scanning Bandwidth: 30~ 1000MHz, 1000~ 2387MHz, 2387~ 2400MHz, 2483.5~ 2496.5MHz, 2496.5~ 12500MHz.

Pass.

Please refer to the following data.

Low Voltage: DC 3.33V

BDR:

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	664.3800	-80.529	30~ 1000MHz	≤ -26dBm
	2080.5004	-69.775	1000~ 2387MHz	≤ -26dBm
	2395.8668	-69.537	2387~ 2400MHz	≤ -16dBm
	2494.3123	-69.120	2483.5~ 2496.5MHz	≤ -16dBm
	5668.0007	-67.246	2496.5~ 12500MHz	≤ -26dBm
2441.000	897.1806	-78.954	30~ 1000MHz	≤ -26dBm
	2288.5002	-69.105	1000~ 2387MHz	≤ -26dBm
	2391.9661	-68.998	2387~ 2400MHz	≤ -16dBm
	2486.4449	-69.772	2483.5~ 2496.5MHz	≤ -16dBm
	6148.0014	-67.800	2496.5~ 12500MHz	≤ -26dBm
2480.000	773.9918	-79.528	30~ 1000MHz	≤ -26dBm
	2267.7005	-69.106	1000~ 2387MHz	≤ -26dBm
	2399.6112	-69.695	2387~ 2400MHz	≤ -16dBm
	2490.9946	-69.720	2483.5~ 2496.5MHz	≤ -16dBm
	11660.0007	-66.813	2496.5~ 12500MHz	≤ -26dBm

EDR:

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	938.8912	-80.837	30~ 1000MHz	≤ -26dBm
	1916.8004	-69.045	1000~ 2387MHz	≤ -26dBm
	2397.4651	-69.772	2387~ 2400MHz	≤ -16dBm
	2491.0503	-69.344	2483.5~ 2496.5MHz	≤ -16dBm
	11760.0007	-67.703	2496.5~ 12500MHz	≤ -26dBm
2441.000	942.7706	-80.290	30~ 1000MHz	≤ -26dBm
	2217.8008	-67.873	1000~ 2387MHz	≤ -26dBm
	2397.8560	-69.488	2387~ 2400MHz	≤ -16dBm
	2486.9342	-68.936	2483.5~ 2496.5MHz	≤ -16dBm
	12290.0004	-66.939	2496.5~ 12500MHz	≤ -26dBm
2480.000	612.0000	-80.730	30~ 1000MHz	≤ -26dBm
	1991.7018	-68.800	1000~ 2387MHz	≤ -26dBm
	2393.2539	-70.035	2387~ 2400MHz	≤ -16dBm
	2496.2867	-68.938	2483.5~ 2496.5MHz	≤ -16dBm
	7198.0020	-67.490	2496.5~ 12500MHz	≤ -26dBm

High Voltage: DC 4.07V

BDR:

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	664.3802	-80.530	30~ 1000MHz	$\leq -26\text{dBm}$
	2080.5006	-69.773	1000~ 2387MHz	$\leq -26\text{dBm}$
	2395.8669	-69.535	2387~ 2400MHz	$\leq -16\text{dBm}$
	2494.3121	-69.122	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	5668.0005	-67.248	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2441.000	897.1808	-78.956	30~ 1000MHz	$\leq -26\text{dBm}$
	2288.5004	-69.103	1000~ 2387MHz	$\leq -26\text{dBm}$
	2391.9663	-68.996	2387~ 2400MHz	$\leq -16\text{dBm}$
	2486.4447	-69.770	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	6148.0012	-67.802	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2480.000	773.9916	-79.520	30~ 1000MHz	$\leq -26\text{dBm}$
	2267.7009	-69.104	1000~ 2387MHz	$\leq -26\text{dBm}$
	2399.6111	-69.693	2387~ 2400MHz	$\leq -16\text{dBm}$
	2490.9944	-69.719	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	11660.0005	-66.819	2496.5~ 12500MHz	$\leq -26\text{dBm}$

EDR:

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	938.8914	-80.839	30~ 1000MHz	$\leq -26\text{dBm}$
	1916.8006	-69.043	1000~ 2387MHz	$\leq -26\text{dBm}$
	2397.4652	-69.770	2387~ 2400MHz	$\leq -16\text{dBm}$
	2491.0505	-69.342	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	11760.0003	-67.705	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2441.000	942.7708	-80.289	30~ 1000MHz	$\leq -26\text{dBm}$
	2217.8007	-67.871	1000~ 2387MHz	$\leq -26\text{dBm}$
	2397.8559	-69.486	2387~ 2400MHz	$\leq -16\text{dBm}$
	2486.9344	-68.934	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	12290.0006	-66.937	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2480.000	612.0002	-80.728	30~ 1000MHz	$\leq -26\text{dBm}$
	1991.7010	-68.799	1000~ 2387MHz	$\leq -26\text{dBm}$
	2393.2533	-70.037	2387~ 2400MHz	$\leq -16\text{dBm}$
	2496.2865	-68.936	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	7198.0018	-67.489	2496.5~ 12500MHz	$\leq -26\text{dBm}$

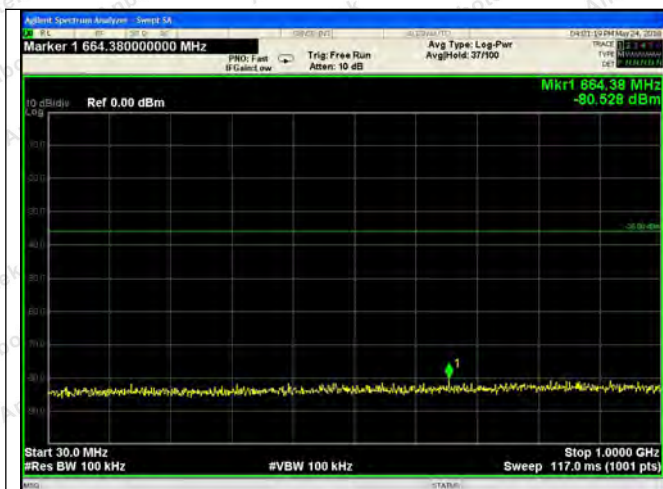
Normal Voltage: DC 3.70V

BDR:

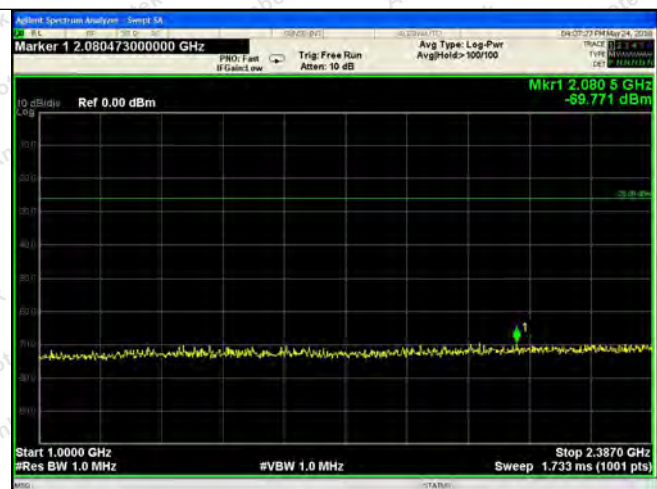
Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	664.3800	-80.528	30~ 1000MHz	$\leq -26\text{dBm}$
	2080.5000	-69.771	1000~ 2387MHz	$\leq -26\text{dBm}$
	2395.8660	-69.533	2387~ 2400MHz	$\leq -16\text{dBm}$
	2494.3120	-69.120	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	5668.0000	-67.246	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2441.000	897.1800	-78.954	30~ 1000MHz	$\leq -26\text{dBm}$
	2288.5000	-69.101	1000~ 2387MHz	$\leq -26\text{dBm}$
	2391.9660	-68.998	2387~ 2400MHz	$\leq -16\text{dBm}$
	2486.4440	-69.769	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	6148.0000	-67.804	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2480.000	773.9900	-79.518	30~ 1000MHz	$\leq -26\text{dBm}$
	2267.7000	-69.104	1000~ 2387MHz	$\leq -26\text{dBm}$
	2399.6100	-69.691	2387~ 2400MHz	$\leq -16\text{dBm}$
	2490.9940	-69.717	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	11660.0000	-66.817	2496.5~ 12500MHz	$\leq -26\text{dBm}$

EDR:

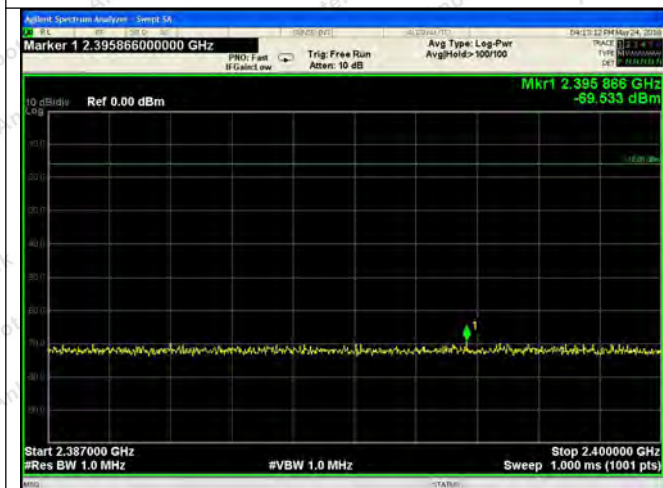
Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	938.8900	-80.837	30~ 1000MHz	$\leq -26\text{dBm}$
	1916.8000	-69.041	1000~ 2387MHz	$\leq -26\text{dBm}$
	2397.4650	-69.768	2387~ 2400MHz	$\leq -16\text{dBm}$
	2491.0500	-69.340	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	11760.0000	-67.703	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2441.000	942.7700	-80.288	30~ 1000MHz	$\leq -26\text{dBm}$
	2217.8000	-67.869	1000~ 2387MHz	$\leq -26\text{dBm}$
	2397.8550	-69.484	2387~ 2400MHz	$\leq -16\text{dBm}$
	2486.9340	-68.930	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	12290.0000	-66.935	2496.5~ 12500MHz	$\leq -26\text{dBm}$
2480.000	612.0000	-80.720	30~ 1000MHz	$\leq -26\text{dBm}$
	1991.7000	-68.797	1000~ 2387MHz	$\leq -26\text{dBm}$
	2393.2530	-70.035	2387~ 2400MHz	$\leq -16\text{dBm}$
	2496.2860	-68.934	2483.5~ 2496.5MHz	$\leq -16\text{dBm}$
	7198.0000	-67.487	2496.5~ 12500MHz	$\leq -26\text{dBm}$



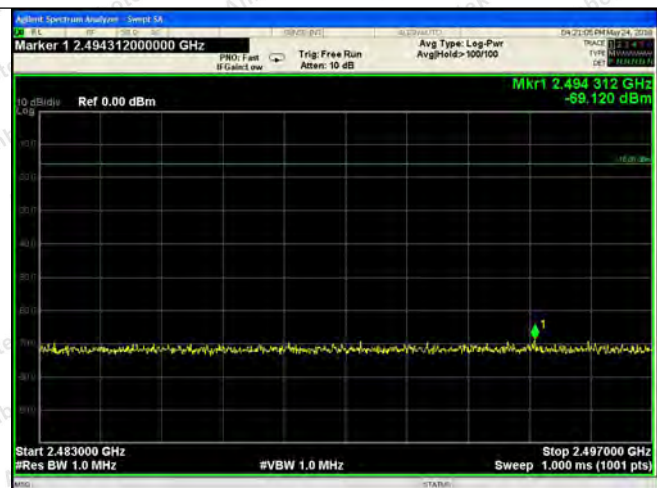
Test Mode: BDR--Low---30~ 1000MHz



Test Mode: BDR--Low---1000~ 2387MHz



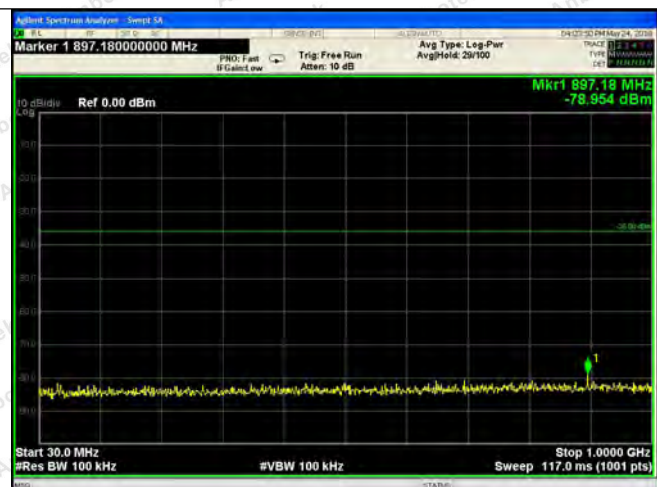
Test Mode: BDR--Low---2387~ 2400MHz



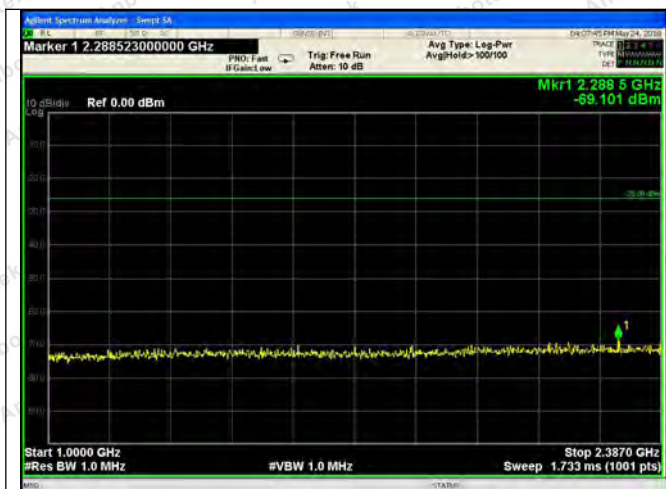
Test Mode: BDR--Low---2483.5~ 2496.5MHz



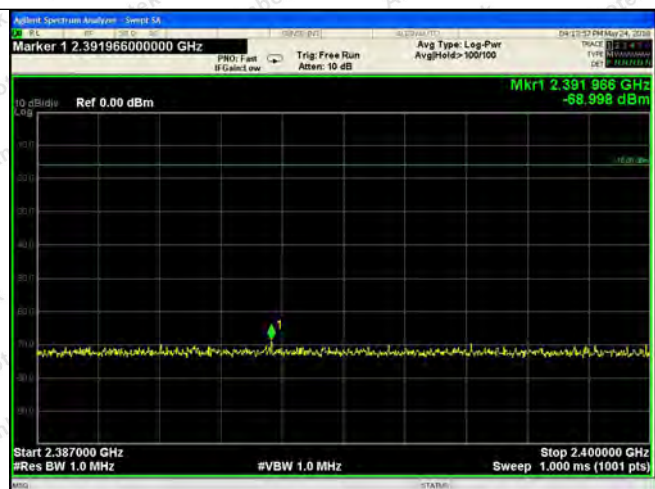
Test Mode: BDR--Low---2496.5~ 12500MHz



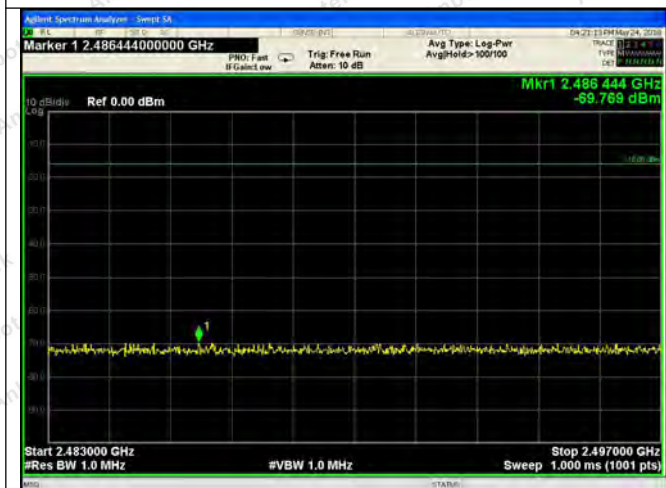
Test Mode: BDR--Mid---30~ 1000MHz



Test Mode: BDR--Mid---1000~ 2387MHz



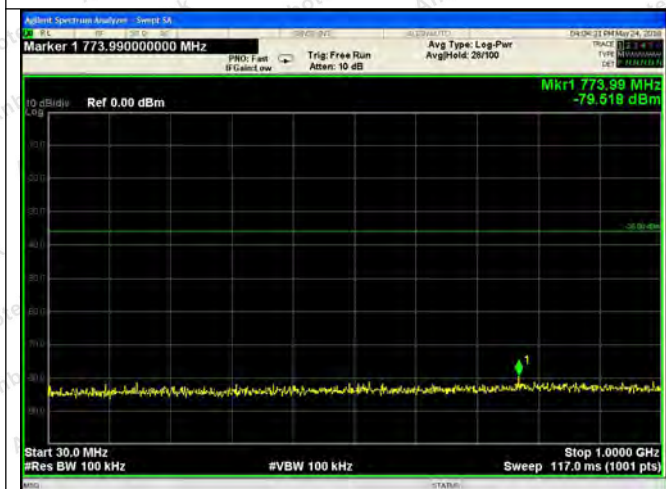
Test Mode: BDR--Mid---2387~ 2400MHz



Test Mode: BDR--Mid---2483.5~ 2496.5MHz



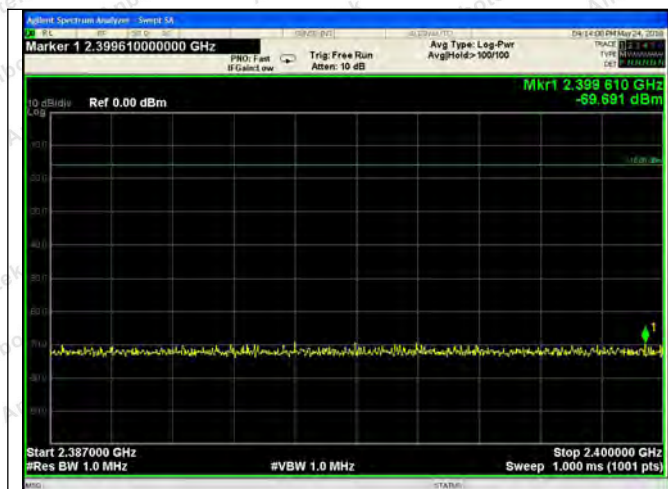
Test Mode: BDR--Mid---2496.5~ 12500MHz



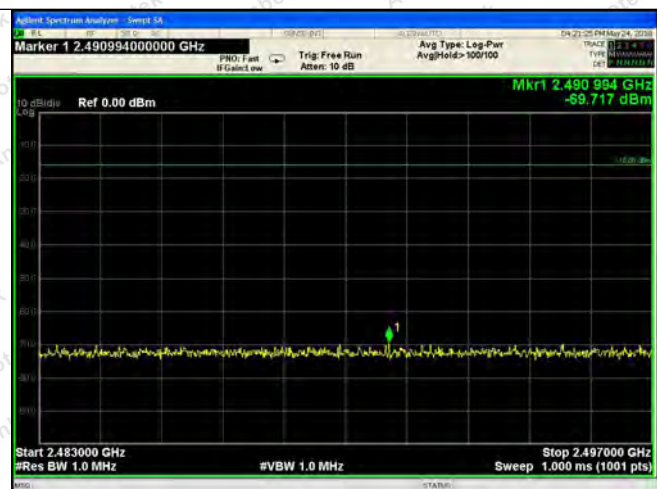
Test Mode: BDR--High---30~ 1000MHz



Test Mode: BDR--High---1000~ 2387MHz



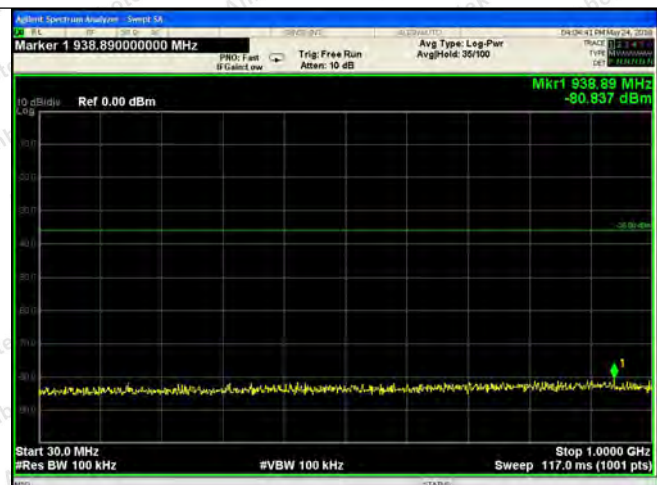
Test Mode: BDR--High---2387~ 2400MHz



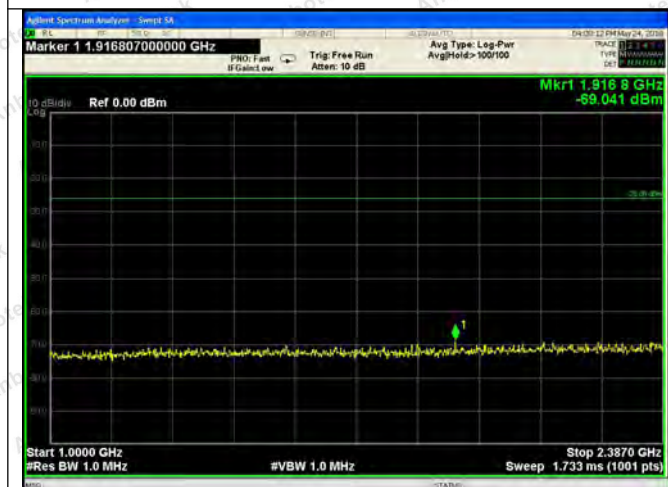
Test Mode: BDR--High---2483.5~ 2496.5MHz



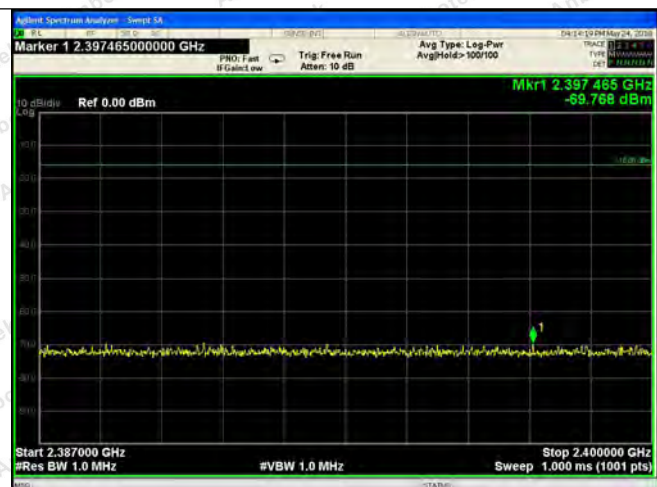
Test Mode: BDR--High---2496.5~ 12500MHz



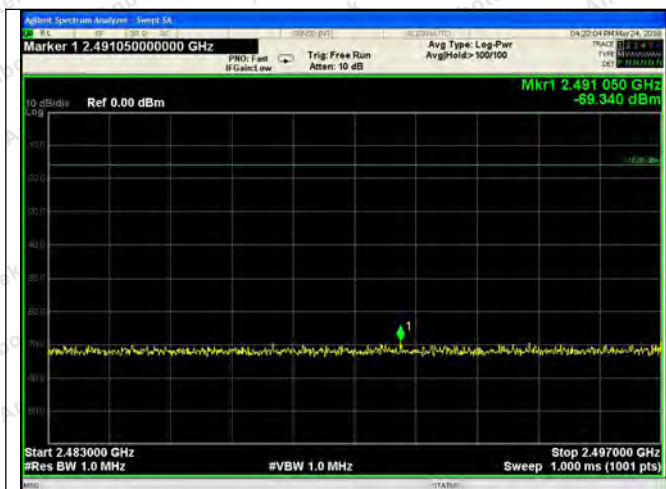
Test Mode: EDR--Low---30~ 1000MHz



Test Mode: EDR---Low---1000~ 2387MHz



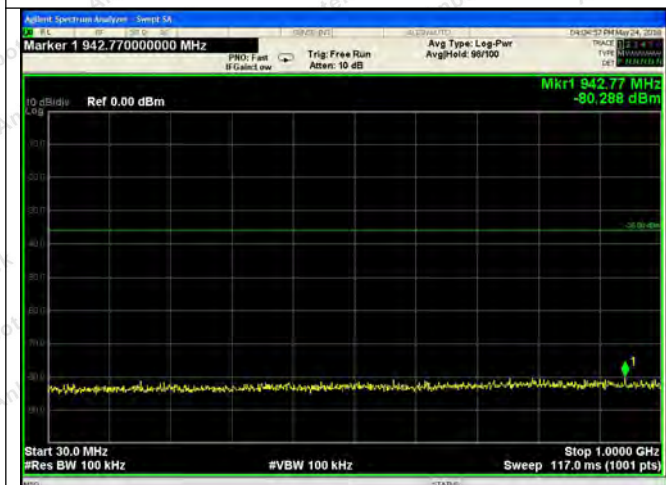
Test Mode: EDR---Low---2387~ 2400MHz



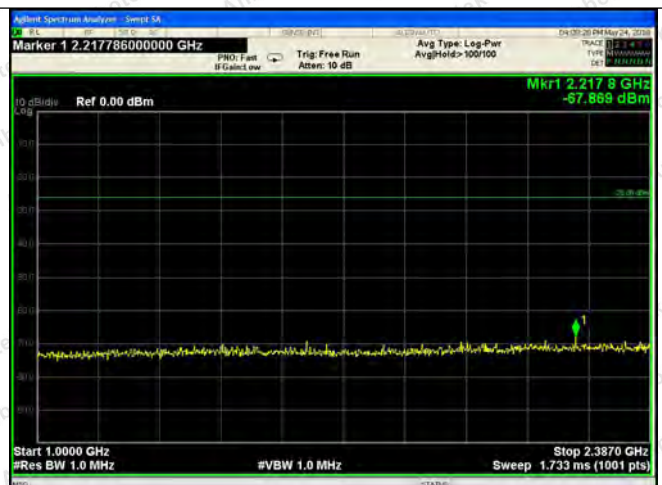
Test Mode: EDR--Low---2483.5~ 2496.5MHz



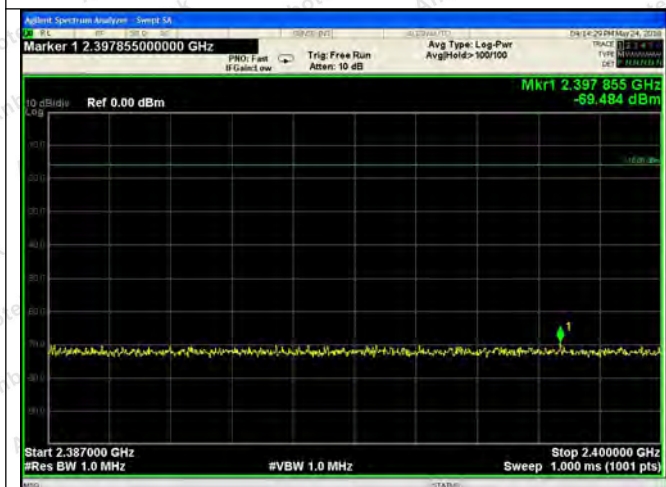
Test Mode: EDR--Low---2496.5~ 12500MHz



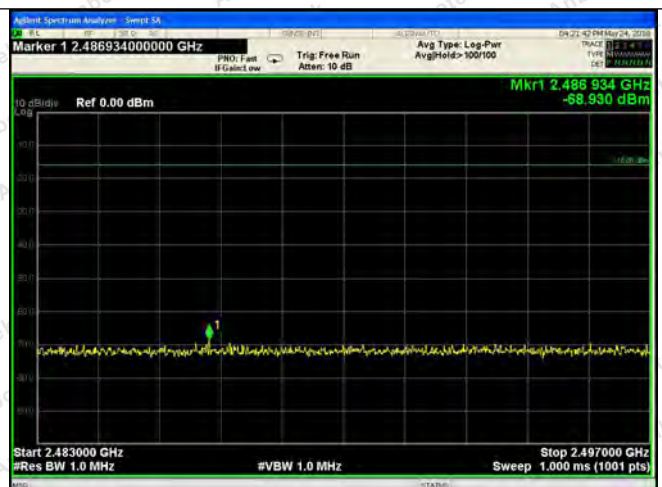
Test Mode: EDR--Mid---30~ 1000MHz



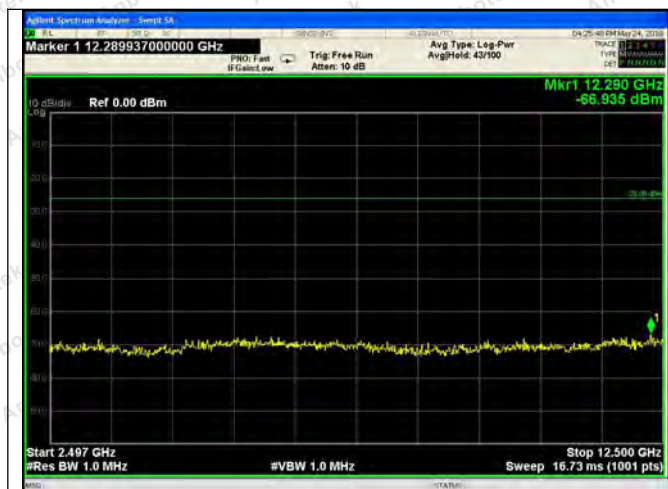
Test Mode: EDR--Mid---1000~ 2387MHz



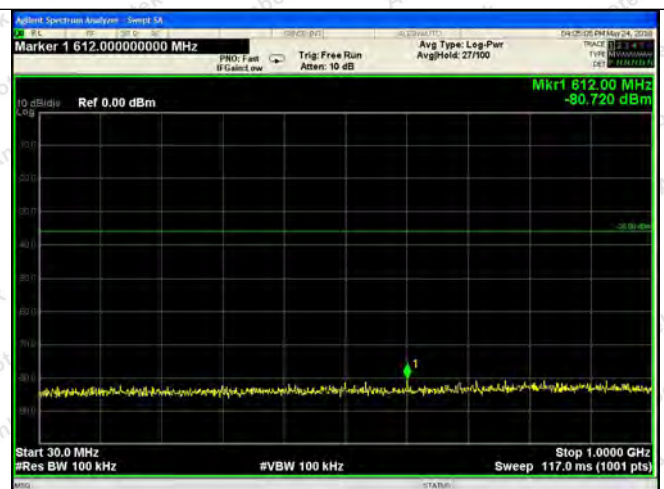
Test Mode: EDR--Mid---2387~ 2400MHz



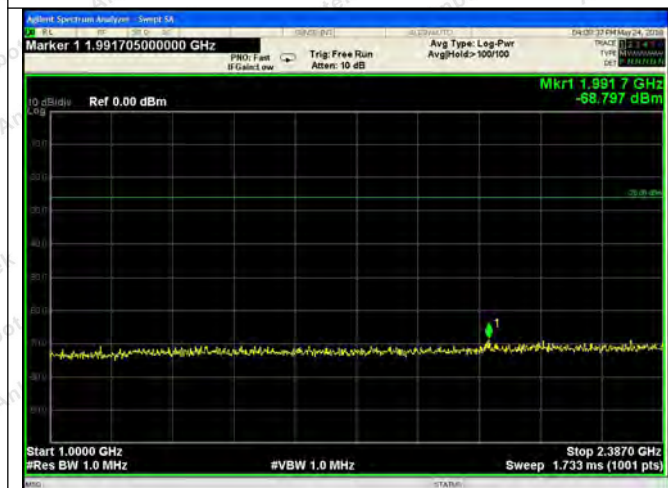
Test Mode: EDR--Mid---2483.5~ 2496.5MHz



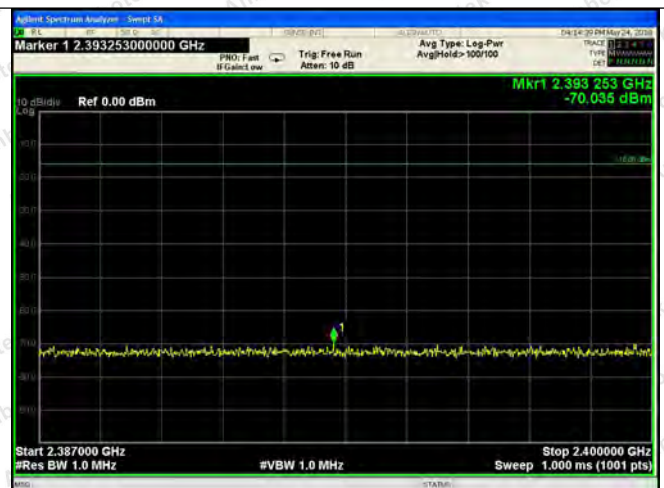
Test Mode: EDR--Mid---2496.5~ 12500MHz



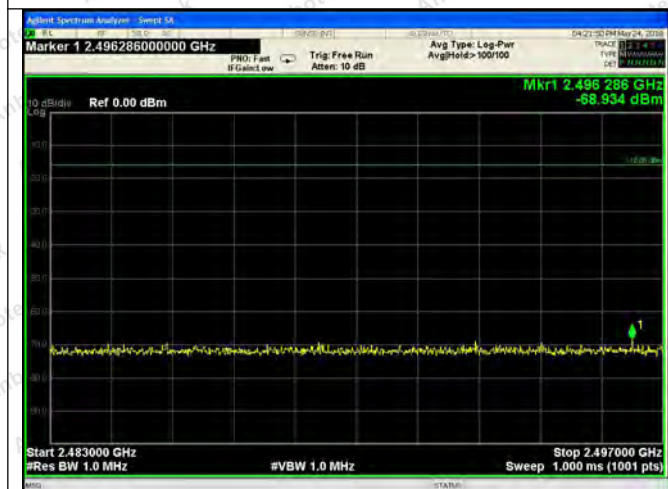
Test Mode: EDR--High---30~ 1000MHz



Test Mode: EDR--High---1000~ 2387MHz



Test Mode: EDR--High---2387~ 2400MHz



Test Mode: EDR--High---2483.5~ 2496.5MHz



Test Mode: EDR--High---2496.5~ 12500MHz

7. ANTENNA POWER TEST

7.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

7.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

7.3 Test Results

Pass.

Please refer to the following data.

Low Voltage: DC 3.33V

Frequency (MHz)	conducted antenna power density (mW/MHz)			Rated Conducted power density (mW/MHz)	Antenna Power Error (mW/MHz) (-80%, +20%)
BDR					
	dBm	90% bandwidth (MHz)	mW		
2402	1.872	72.508	0.02	0.04	-50.00%
2441	2.171	72.508	0.02	0.04	-50.00%
2480	1.437	72.508	0.02	0.04	-50.00%
EDR					
2402	2.003	72.508	0.02	0.04	-50.00%
2441	2.102	72.508	0.02	0.04	-50.00%
2480	2.100	72.508	0.02	0.04	-50.00%

High Voltage: DC 4.07V

Frequency (MHz)	conducted antenna power density (mW/MHz)			Rated Conducted power density (mW/MHz)	Antenna Power Error (mW/MHz) (-80%, +20%)
BDR					
	dBm	90% bandwidth (MHz)	mW		
2402	1.874	72.508	0.02	0.04	-50.00%
2441	2.172	72.508	0.02	0.04	-50.00%
2480	1.439	72.508	0.02	0.04	-50.00%
EDR					
2402	2.007	72.508	0.02	0.04	-50.00%
2441	2.106	72.508	0.02	0.04	-50.00%
2480	2.104	72.508	0.02	0.04	-50.00%

Normal Voltage: DC 3.70V

Frequency (MHz)	conducted antenna power density (mW/MHz)			Rated Conducted power density (mW/MHz)	Antenna Power Error (mW/MHz) (-80%, +20%)
BDR					
	dBm	90% bandwidth (MHz)	mW		
2402	1.873	72.508	0.02	0.04	-50.00%
2441	2.170	72.508	0.02	0.04	-50.00%
2480	1.437	72.508	0.02	0.04	-50.00%
EDR					
2402	2.005	72.508	0.02	0.04	-50.00%
2441	2.104	72.508	0.02	0.04	-50.00%
2480	2.102	72.508	0.02	0.04	-50.00%

8. LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER TEST

8.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

8.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

8.3 Test Results

Scanning Bandwidth: 30~ 1000MHz, 1000~ 12750MHz.

Low Voltage: DC 3.33V

BDR

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	781.7502	-78.620	30~ 1000MHz	$\leq -54\text{dBm}$
	5301.0006	-67.530	1000~ 12750MHz	$\leq -47\text{dBm}$
2441.000	897.1807	-80.395	30~ 1000MHz	$\leq -54\text{dBm}$
	5175.0005	-66.153	1000~ 12750MHz	$\leq -47\text{dBm}$
2480.000	971.8717	-79.664	30~ 1000MHz	$\leq -54\text{dBm}$
	11626.0004	-67.296	1000~ 12750MHz	$\leq -47\text{dBm}$

EDR

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	802.1212	-79.850	30~ 1000MHz	$\leq -54\text{dBm}$
	6026.0006	-67.258	1000~ 12750MHz	$\leq -47\text{dBm}$
2441.000	903.9705	-80.437	30~ 1000MHz	$\leq -54\text{dBm}$
	6083.0004	-66.932	1000~ 12750MHz	$\leq -47\text{dBm}$
2480.000	685.7208	-80.629	30~ 1000MHz	$\leq -54\text{dBm}$
	5623.0003	-66.777	1000~ 12750MHz	$\leq -47\text{dBm}$

High Voltage: DC 4.07V

BDR

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	781.7504	-78.618	30~ 1000MHz	≤ -54dBm
	5301.0002	-67.529	1000~ 12750MHz	≤ -47dBm
2441.000	897.1805	-80.393	30~ 1000MHz	≤ -54dBm
	5175.0007	-66.151	1000~ 12750MHz	≤ -47dBm
2480.000	971.8716	-79.662	30~ 1000MHz	≤ -54dBm
	11626.0008	-67.294	1000~ 12750MHz	≤ -47dBm

EDR

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	802.1210	-79.849	30~ 1000MHz	≤ -54dBm
	6026.0002	-67.256	1000~ 12750MHz	≤ -47dBm
2441.000	903.9703	-80.435	30~ 1000MHz	≤ -54dBm
	6083.0008	-66.930	1000~ 12750MHz	≤ -47dBm
2480.000	685.7204	-80.627	30~ 1000MHz	≤ -54dBm
	5623.0006	-66.775	1000~ 12750MHz	≤ -47dBm

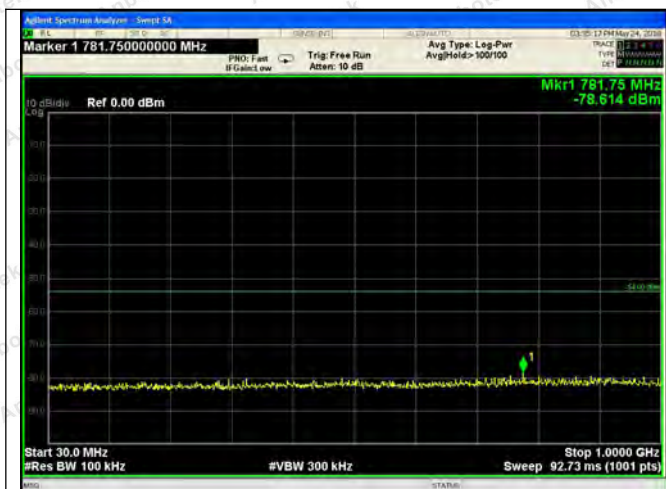
Normal Voltage: DC 3.70V

BDR

Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	781.7500	-78.614	30~ 1000MHz	$\leq -54\text{dBm}$
	5301.0000	-67.527	1000~ 12750MHz	$\leq -47\text{dBm}$
2441.000	897.1800	-80.391	30~ 1000MHz	$\leq -54\text{dBm}$
	5175.0000	-66.155	1000~ 12750MHz	$\leq -47\text{dBm}$
2480.000	971.8700	-79.660	30~ 1000MHz	$\leq -54\text{dBm}$
	11626.0000	-67.296	1000~ 12750MHz	$\leq -47\text{dBm}$

EDR

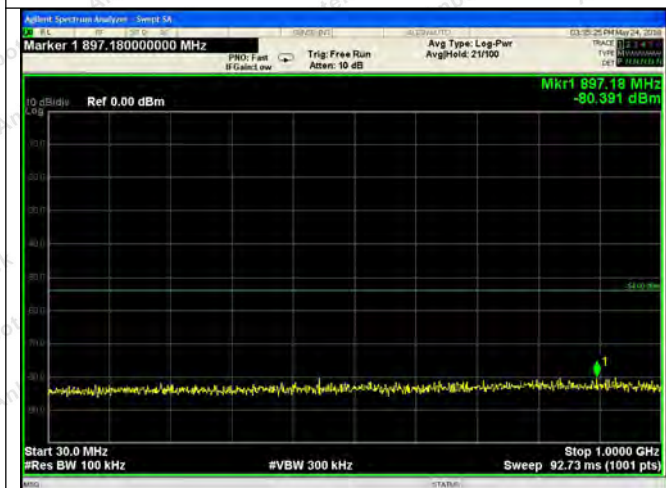
Frequency(MHz)	Reading(MHz)	Reading(dBm)	Scanning Bandwidth	Limit
2402.000	802.1200	-79.847	30~ 1000MHz	$\leq -54\text{dBm}$
	6026.0000	-67.254	1000~ 12750MHz	$\leq -47\text{dBm}$
2441.000	903.9700	-80.431	30~ 1000MHz	$\leq -54\text{dBm}$
	6083.0000	-66.929	1000~ 12750MHz	$\leq -47\text{dBm}$
2480.000	685.7200	-80.625	30~ 1000MHz	$\leq -54\text{dBm}$
	5623.0000	-66.773	1000~ 12750MHz	$\leq -47\text{dBm}$



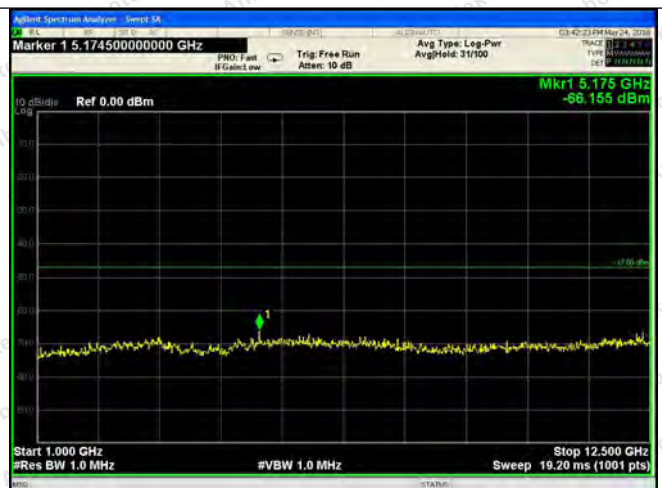
Test Mode: BDR--Low (30~1000MHz)



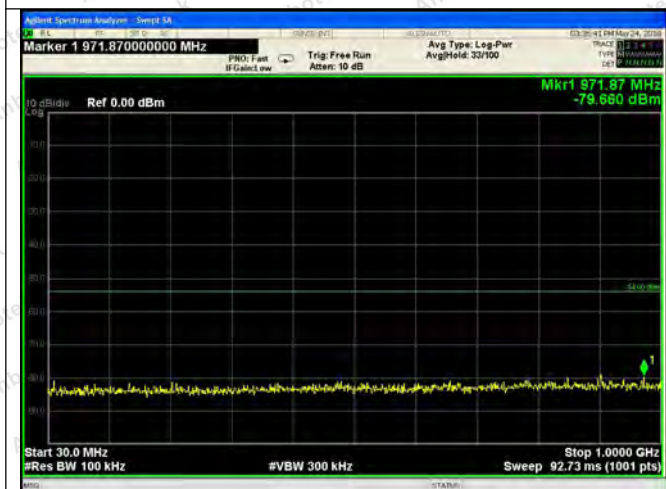
Test Mode: BDR--Low (1000~12750MHz)



Test Mode: BDR--Mid (30~1000MHz)



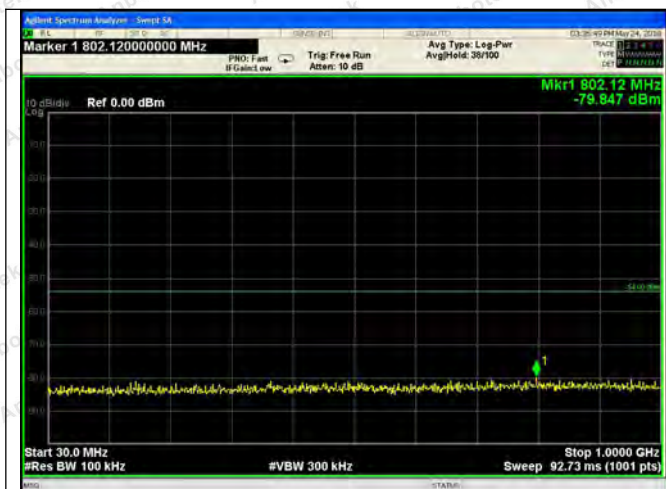
Test Mode: BDR--Mid (1000~12750MHz)



Test Mode: BDR--High (30~1000MHz)



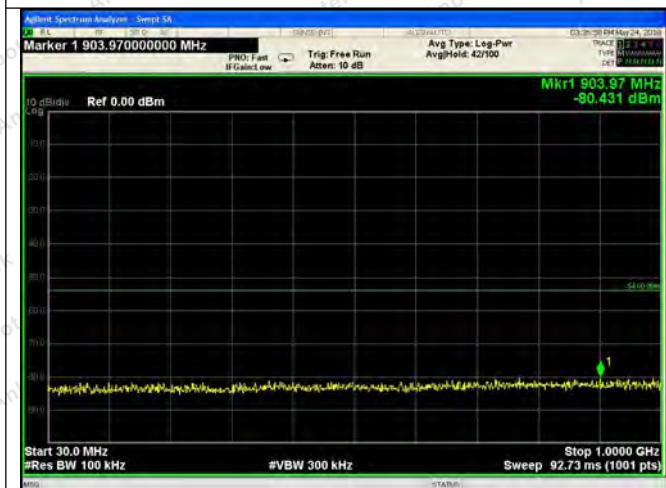
Test Mode: BDR--High (1000~12750MHz)



Test Mode: EDR--Low (30~ 1000MHz)



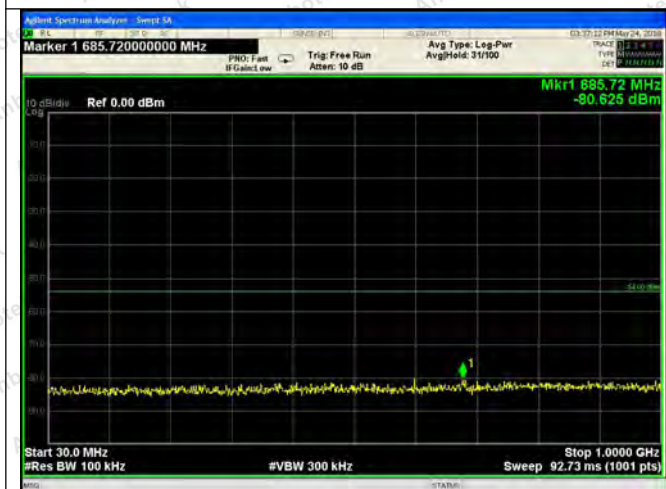
Test Mode: EDR--Low (1000~ 12750MHz)



Test Mode: EDR--Mid (30~ 1000MHz)



Test Mode: EDR--Mid (1000~ 12750MHz)



Test Mode: EDR--High (30~ 1000MHz)



Test Mode: EDR--High (1000~ 12750MHz)

9. DWELL TIME MEASUREMENT

9.1 Test Equipment

Same as 3.1 Frequency tolerance measurement.

9.2 Test Configuration

Same as 3.2 Frequency tolerance measurement.

9.3 Test Results

Pass.

Please refer to the following data.

Dwell time = time slot length * hop rate / number of hopping channels * Observing period

Hop rate=1600/s

Number of hopping channels=79

Observing period = number of hopping channels x 0.4s = 79 x 0.4s=31.6s

So the maximum time duration of one single pulse:

DH5 Packet permit maximum:

= 1600 / 79 / 6(5 time slots Tx, 1 times slot Rx)

= 3.37 hop/s in each channel

Transmission Times within observing period

= 3.37 x 31.6

= 106.6

DH3 Packet permit maximum:

=1600/ 79 / 4(3times slots Tx, 1 times slot Rx)

=5.06 hop/s in each channel

Transmission Times within observing period

= 5.06 x 31.6

= 160

DH1 Packet permit maximum:

= 1600/ 79/ 2(1 times slot Tx, 1 times slot Rx)

= 10.12 hop/s in each channel

Transmission Times within observing period

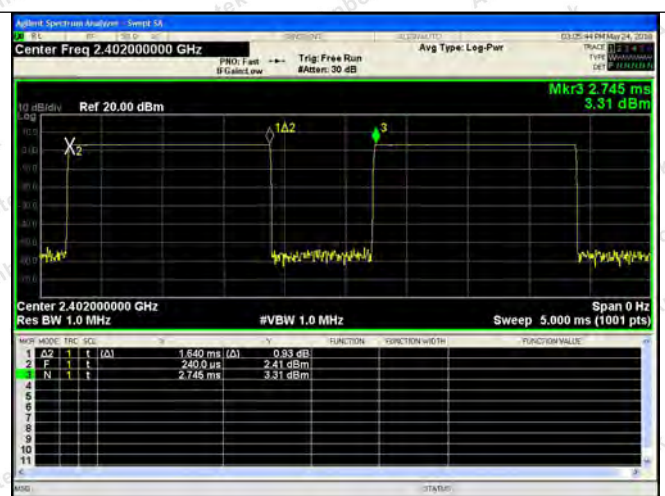
= 10.12 x 31.6

= 320

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (ms)
DH1	0.378	time slot length *1600/2 /79 * 31.6	120.96	400
DH3	1.640	time slot length *1600/4 /79 * 31.6	262.40	400
DH5	2.888	time slot length *1600/6 /79 * 31.6	308.05	400



DH1



DH3

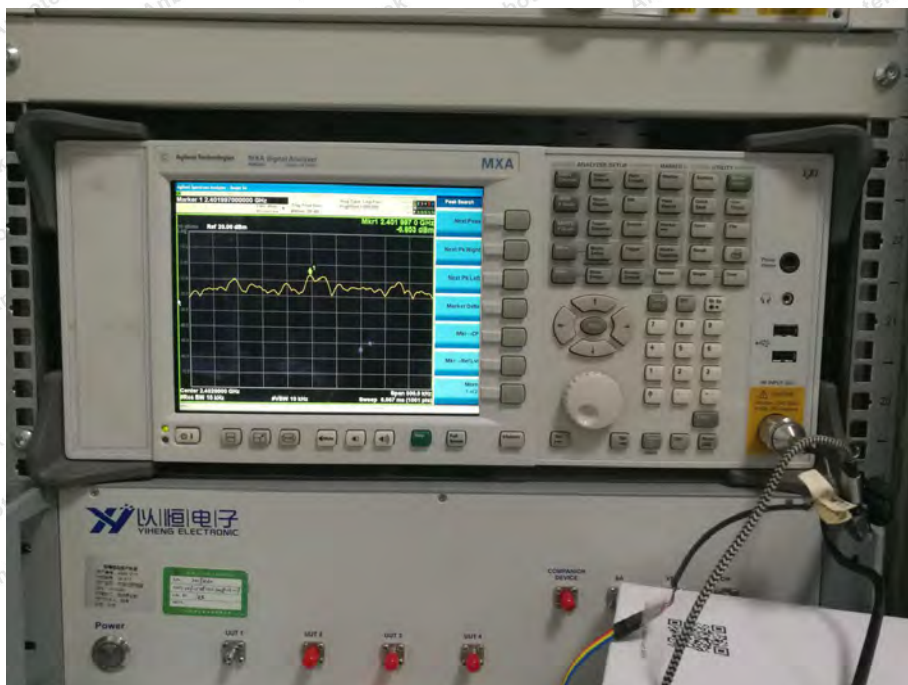


DH5



/

10. PHOTOS OF TEST SETUP



APPENDIX I (External Photos)



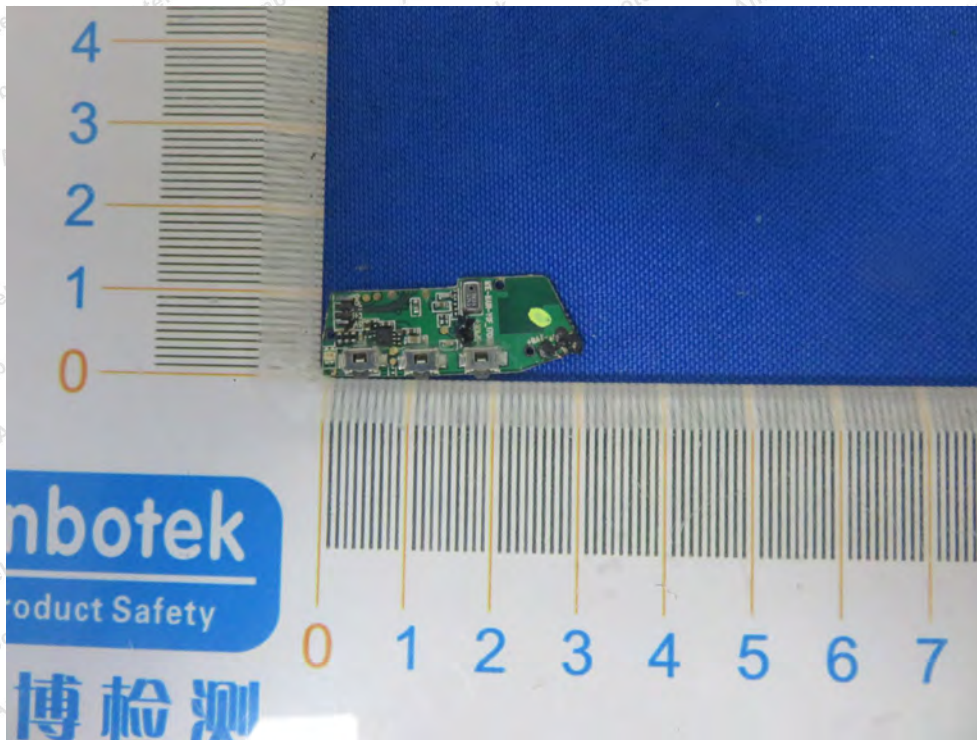




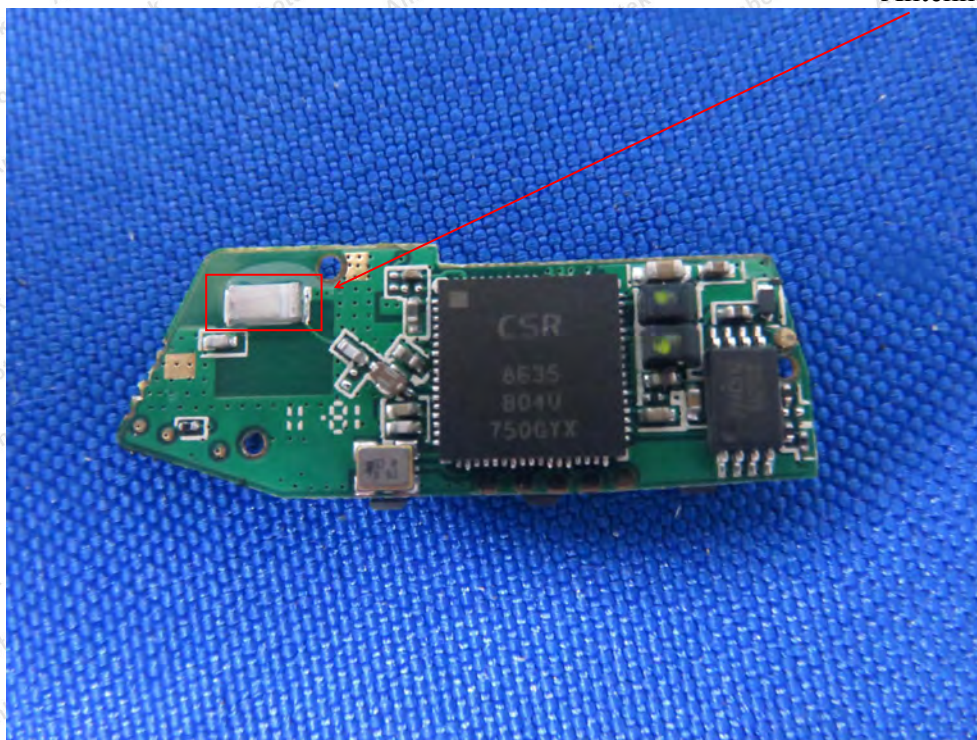


APPENDIX II (Internal Photos)





Antenna





End of Report