FCC TEST REPORT

Client Name	:	EKAA TECHNOLOGY CO., LTD
Address	:	2nd Floor, Building D, Guankeng Industrial Park, Panyu District, Guangzhou, China
Product Name	:	Intelligent Management Digital Signage
Date	:	Jun. 02, 2020

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	EKAA TECHNOLOGY CO., LTD
Manufacturer	:	EKAA TECHNOLOGY CO., LTD
Product Name	:	Intelligent Management Digital Signage
Model No.	:	EKIAD070, EKIAD050, EKIAD080, EKIAD220, EKIAD320, EKIAD430, EKAIAD490, EKIAD550, EKIAD650, EKIAD750, EKIAD860, EKIAD100
Trade Mark	:	EKAA
Rating(s)	:	Input: DC 12V, 3A (via adapter input: AC 100~240V, 50/60Hz, 1A; Output: DC 12V, 3A)
Test Standard(s)	**:**	**FCC Part15 Subpart C 2019, Section 15.247**
Test Method(s)	**:**	**ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05**

The device described above is tested by Shenzhen Anbotek 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 Anbotek 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 FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	May 11, 2020
Date of Test	May 11~30, 2020

Prepared by (Engineer / Dolly Mo)

Reviewer (Supervisor / Bibo Zhang)

Approved & Authorized Signer (Manager / Tom Chen)

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Hotline 400-003-0500 www.anbotek.com

1. General Information

1.1. Client Information

Applicant	:	EKAA TECHNOLOGY CO., LTD
Address	:	2nd Floor, Building D, Guankeng Industrial Park, Panyu District, Guangzhou, China
Manufacturer	:	EKAA TECHNOLOGY CO., LTD
Address	:	2nd Floor, Building D, Guankeng Industrial Park, Panyu District, Guangzhou, China
Factory	:	EKAA TECHNOLOGY CO., LTD
Address	:	2nd Floor, Building D, Guankeng Industrial Park, Panyu District, Guangzhou, China

1.2. Description of Device (EUT)

Product Name	:	Intelligent Management Digital Signage	
Model No.	:	EKIAD070, EKIAD050, EKIAD080, EKIAD220, EKIAD320, EKIAD430, EKAIAD490, EKIAD550, EKIAD650, EKIAD750, EKIAD860, EKIAD100 (Note: All samples are the same except the appearance color, so we prepare "EKIAD070" for test only.)	
Trade Mark	:	EKAA	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	802.11b/ g/ n(HT20) 2412-2462MHz
		Number of Channel:	11 Channels for 802.11b/ g/ n(HT20)
		Modulation Type:	802.11b CCK; 802.11g/n OFDM
		Antenna Type:	PIFA Antenna
		Antenna Gain(Peak):	0 dBi
Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: KT36W120300H Input: 100-240~50/60Hz 1.0A Output: DC 12V, 3A

1.4. 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.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

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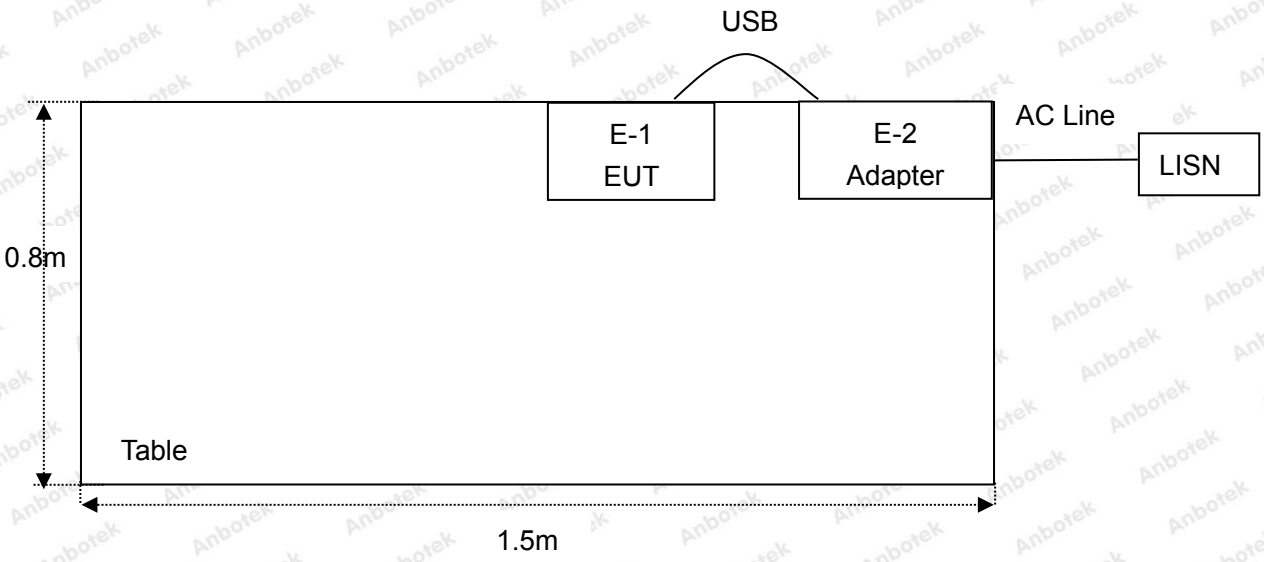
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
www.anbotek.com

1.6. Description Of Test Setup

CE



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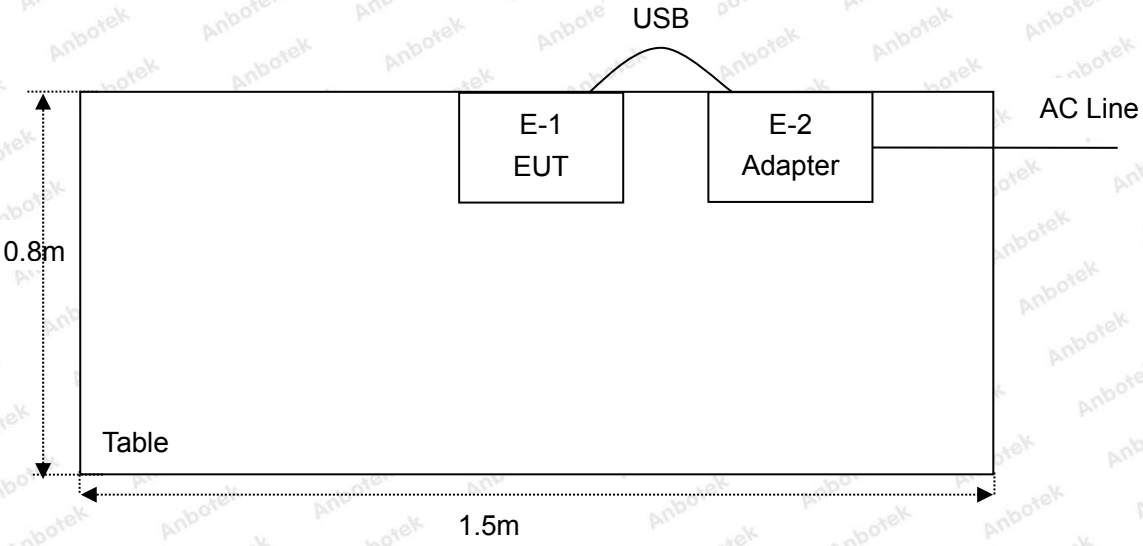


1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 04, 2019	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotek 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, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

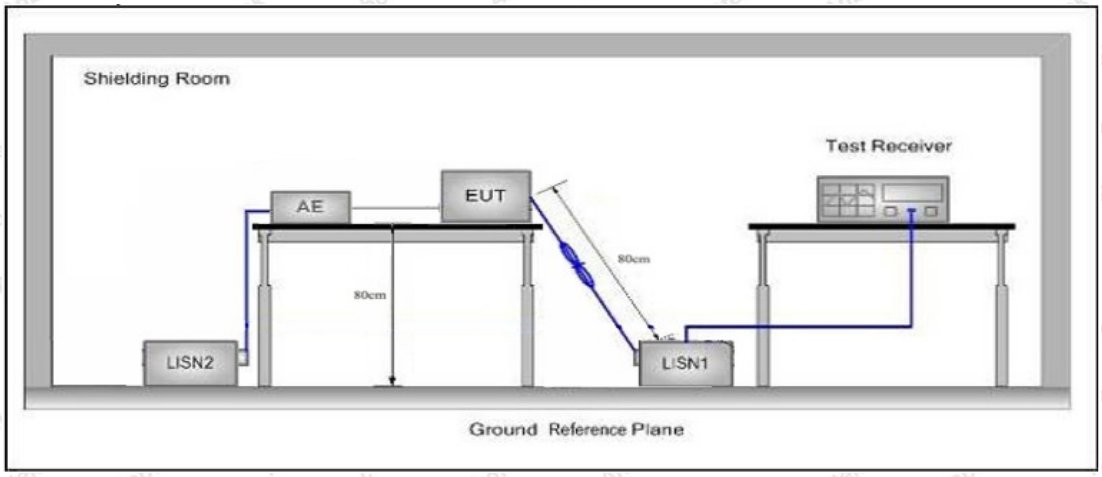
Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: “N/A” is an abbreviation for Not Applicable.		

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

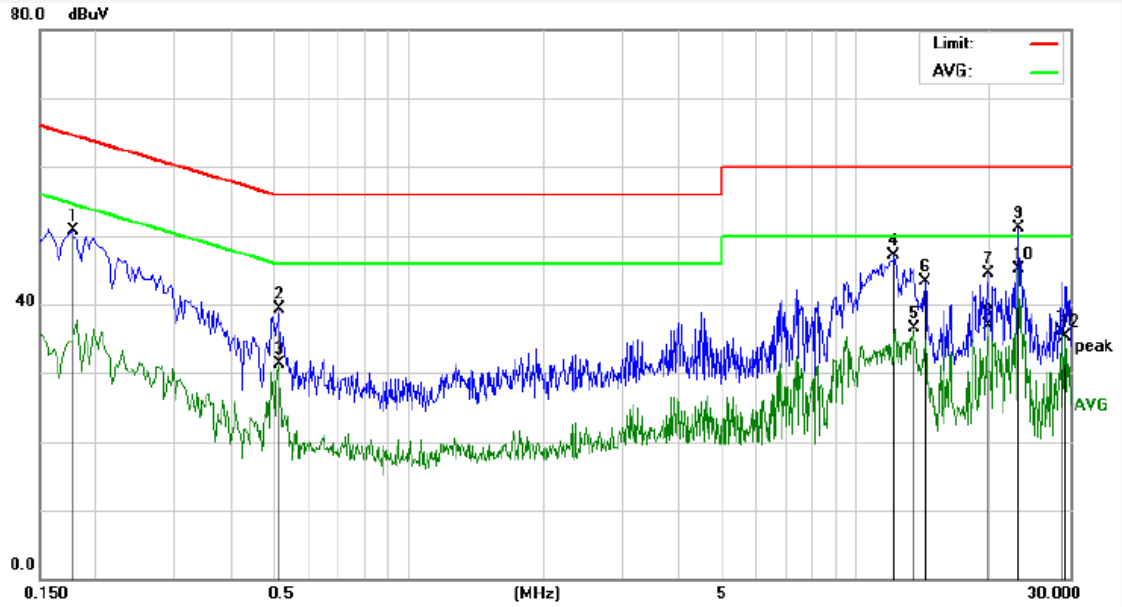
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11n HT20 CH01 which is the worst case, only the worst case is recorded in the report.

Conducted Emission Test Data

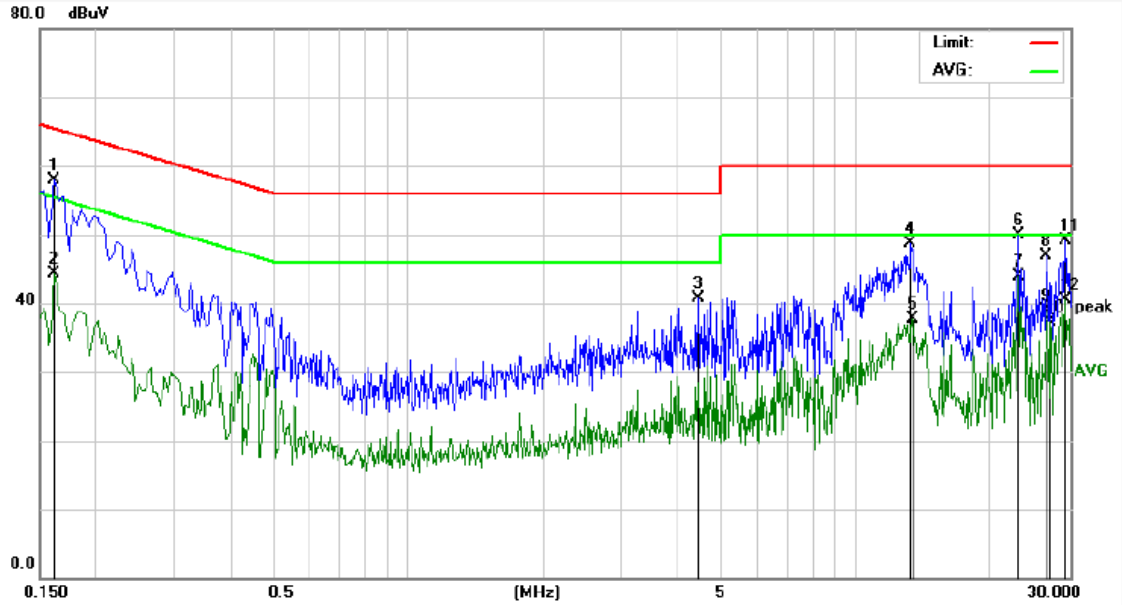
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH01
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 23.6℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1780	30.86	19.90	50.76	64.57	-13.81	QP	
2	0.5140	19.24	19.98	39.22	56.00	-16.78	QP	
3	0.5140	11.31	19.98	31.29	46.00	-14.71	AVG	
4	12.1380	26.81	20.31	47.12	60.00	-12.88	QP	
5	13.4180	16.26	20.29	36.55	50.00	-13.45	AVG	
6	14.2140	22.96	20.27	43.23	60.00	-16.77	QP	
7	19.7099	24.11	20.34	44.45	60.00	-15.55	QP	
8	19.7099	16.48	20.34	36.82	50.00	-13.18	AVG	
9	23.1299	30.88	20.30	51.18	60.00	-8.82	QP	
10	23.1299	24.80	20.30	45.10	50.00	-4.90	AVG	
11	28.6860	15.77	20.27	36.04	50.00	-13.96	AVG	
12	29.2380	15.06	20.27	35.33	50.00	-14.67	AVG	

Conducted Emission Test Data

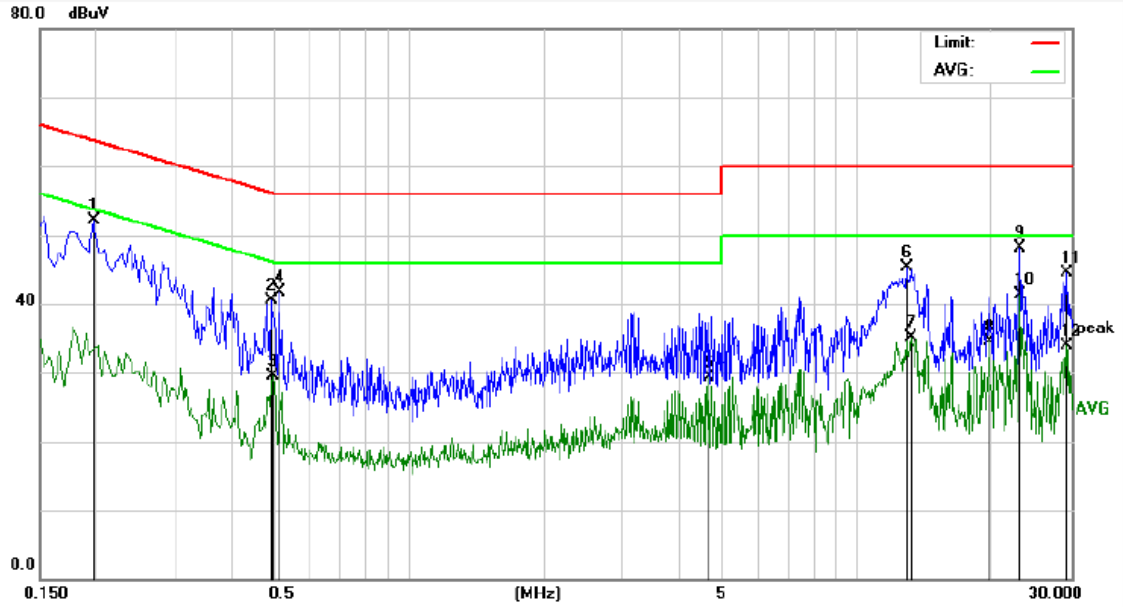
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH01
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.6℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	38.00	19.90	57.90	65.36	-7.46	QP	
2	0.1620	24.37	19.90	44.27	55.36	-11.09	AVG	
3	4.4420	20.58	20.19	40.77	56.00	-15.23	QP	
4	13.2140	28.35	20.29	48.64	60.00	-11.36	QP	
5	13.3300	17.44	20.29	37.73	50.00	-12.27	AVG	
6	23.1299	29.60	20.30	49.90	60.00	-10.10	QP	
7	23.1299	23.61	20.30	43.91	50.00	-6.09	AVG	
8	26.6100	26.72	20.28	47.00	60.00	-13.00	QP	
9	26.6100	18.53	20.28	38.81	50.00	-11.19	AVG	
10	27.1620	17.02	20.28	37.30	50.00	-12.70	AVG	
11	29.2380	28.80	20.27	49.07	60.00	-10.93	QP	
12	29.2380	20.30	20.27	40.57	50.00	-9.43	AVG	

Conducted Emission Test Data

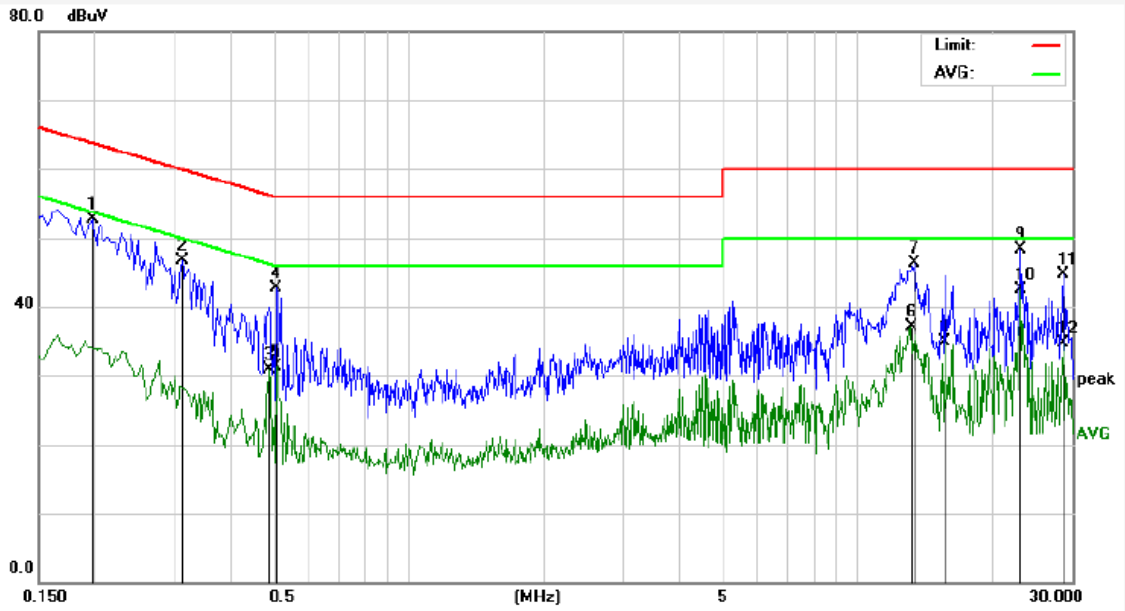
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH01
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 23.6℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	32.23	19.90	52.13	63.69	-11.56	QP	
2	0.4940	20.57	19.98	40.55	56.10	-15.55	QP	
3	0.4980	9.61	19.98	29.59	46.03	-16.44	AVG	
4	0.5140	21.75	19.98	41.73	56.00	-14.27	QP	
5	4.6779	9.14	20.20	29.34	46.00	-16.66	AVG	
6	12.9140	25.05	20.29	45.34	60.00	-14.66	QP	
7	13.1500	14.81	20.29	35.10	50.00	-14.90	AVG	
8	19.7099	14.26	20.34	34.60	50.00	-15.40	AVG	
9	23.1299	27.86	20.30	48.16	60.00	-11.84	QP	
10	23.1299	20.96	20.30	41.26	50.00	-8.74	AVG	
11	29.2340	24.17	20.27	44.44	60.00	-15.56	QP	
12	29.2340	13.72	20.27	33.99	50.00	-16.01	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH01
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.6℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	32.84	19.90	52.74	63.69	-10.95	QP	
2	0.3140	26.76	19.90	46.66	59.86	-13.20	QP	
3	0.4900	10.83	19.98	30.81	46.17	-15.36	AVG	
4	0.5100	22.77	19.98	42.75	56.00	-13.25	QP	
5	0.5100	11.39	19.98	31.37	46.00	-14.63	AVG	
6	13.0900	16.85	20.29	37.14	50.00	-12.86	AVG	
7	13.3900	26.01	20.29	46.30	60.00	-13.70	QP	
8	15.6180	14.58	20.27	34.85	50.00	-15.15	AVG	
9	23.1299	27.94	20.30	48.24	60.00	-11.76	QP	
10	23.1299	22.20	20.30	42.50	50.00	-7.50	AVG	
11	28.6860	24.51	20.27	44.78	60.00	-15.22	QP	
12	28.6860	14.50	20.27	34.77	50.00	-15.23	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:
(1)The lower limit shall apply at the transition frequency.
(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

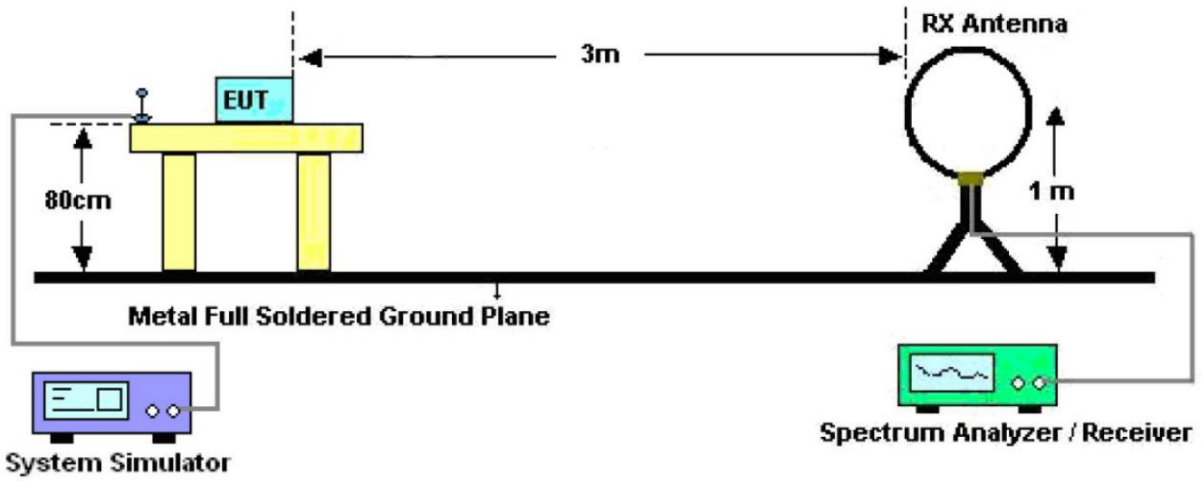


Figure 1. Below 30MHz

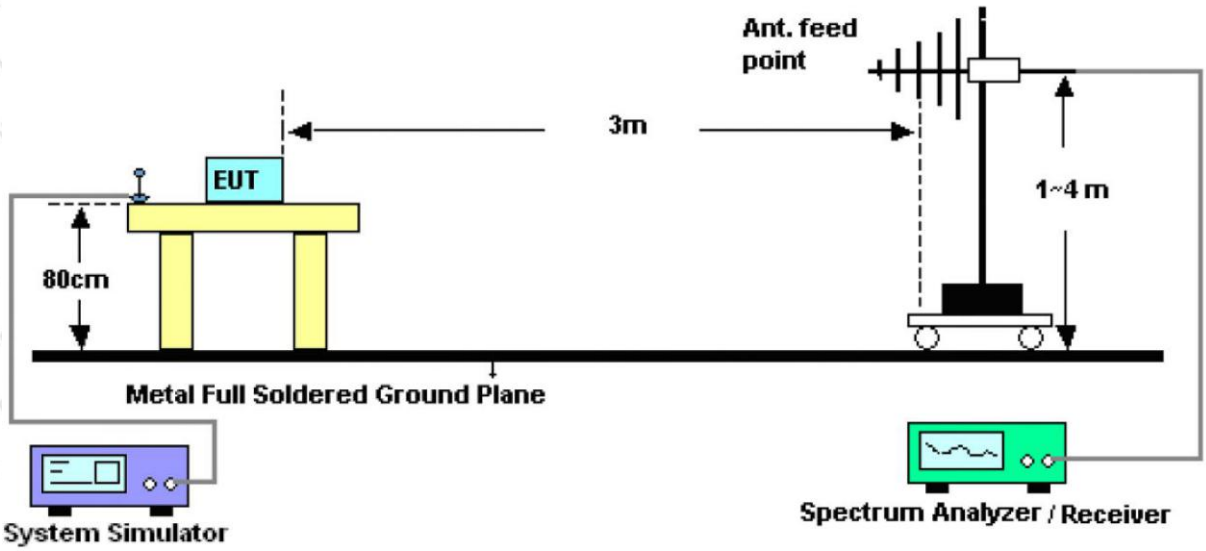


Figure 2. 30MHz to 1GHz

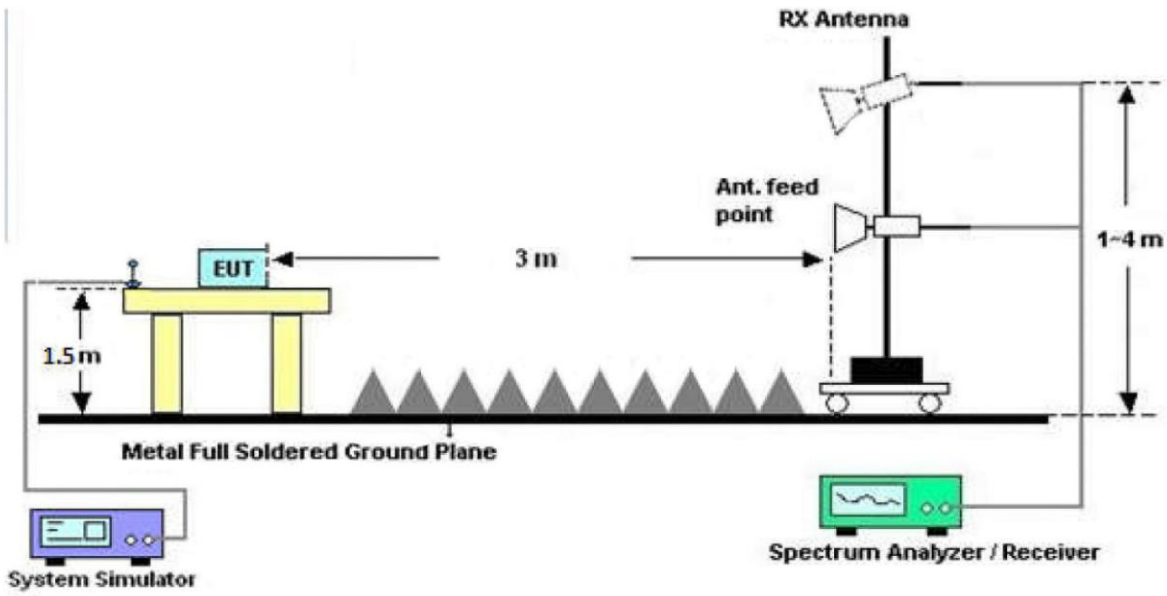


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:
RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:
RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:
RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.
.
For above 1GHz,Set the spectrum analyzer as:
RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.
RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

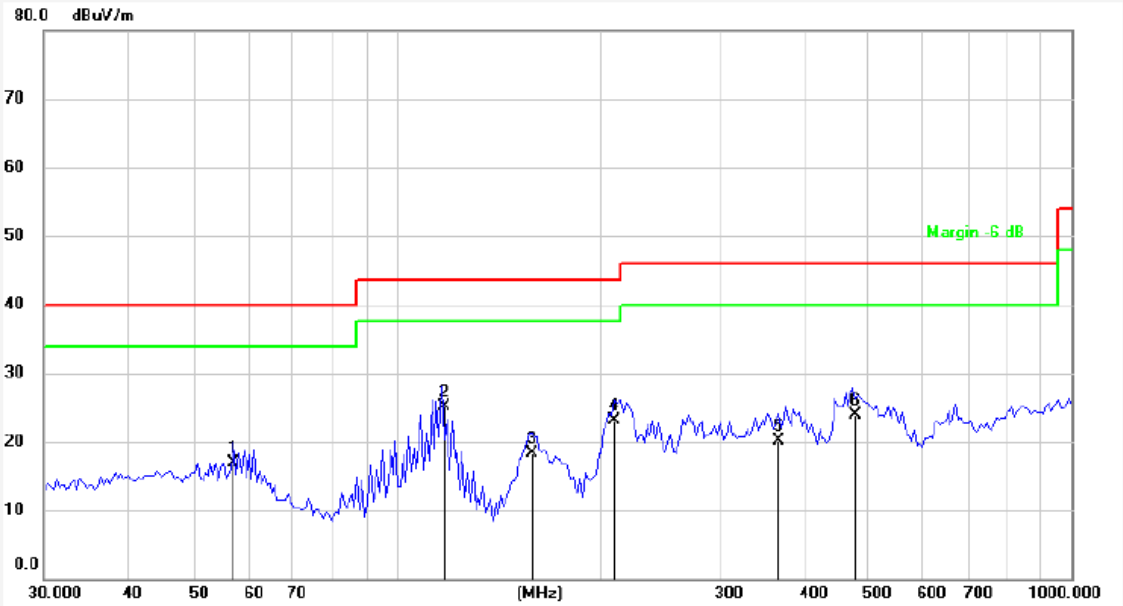
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, and found the 802.11n HT20 CH01 which is the worst case, only the worst case is recorded in the report.

Test Results (30~1000MHz)

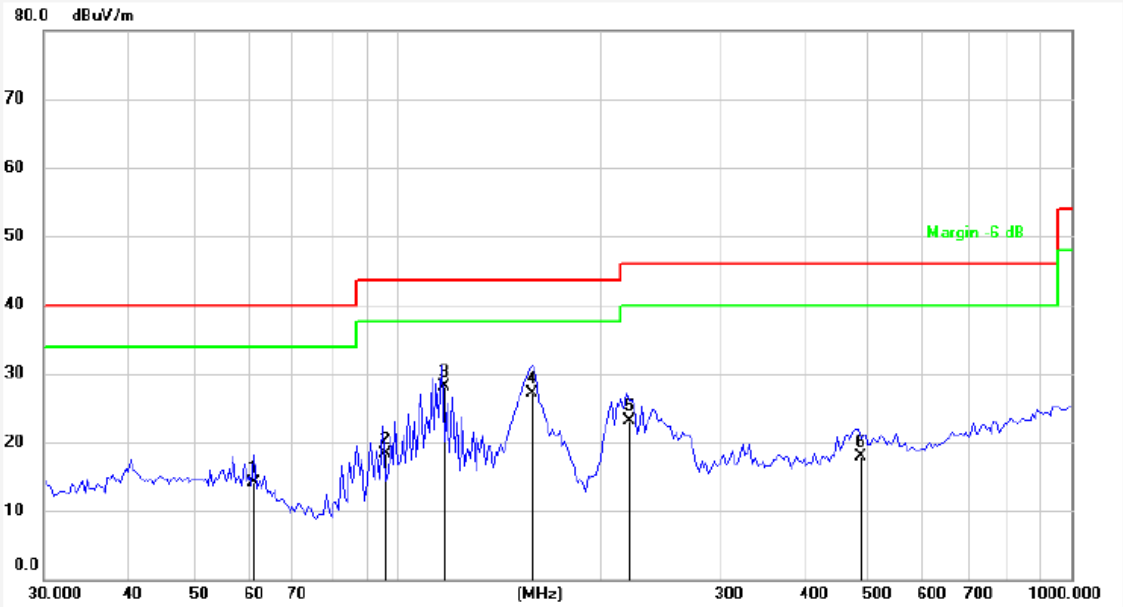
Job No.:	18220WC00048301	Temp.(℃)/Hum.(%RH):	22.6℃/56%RH
Standard:	FCC PART 15C	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	802.11n HT20 CH01	Polarization:	Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	57.3923	34.26	-17.26	17.00	40.00	-23.00	QP	100	0	
2	116.7446	48.82	-23.71	25.11	43.50	-18.39	QP	100	360	
3	158.6677	42.26	-23.95	18.31	43.50	-25.19	QP	100	0	
4	210.0482	45.11	-21.98	23.13	43.50	-20.37	QP	100	360	
5	368.1116	36.55	-16.37	20.18	46.00	-25.82	QP	100	0	
6	474.6662	38.80	-14.96	23.84	46.00	-22.16	QP	100	360	

Test Results (30~1000MHz)

Job No.:	18220WC00048301	Temp.(℃)/Hum.(%RH):	22.6℃/56%RH
Standard:	FCC PART 15C	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	802.11n HT20 CH01	Polarization:	Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	61.5618	31.05	-17.02	14.03	40.00	-25.97	QP	100	0	
2	95.4270	34.29	-16.01	18.28	43.50	-25.22	QP	100	360	
3	116.7446	45.83	-17.71	28.12	43.50	-15.38	QP	100	0	
4	158.6677	47.09	-19.95	27.14	43.50	-16.36	QP	100	360	
5	219.4598	40.22	-17.15	23.07	46.00	-22.93	QP	100	0	
6	483.0618	32.70	-14.73	17.97	46.00	-28.03	QP	100	360	

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	40.26	34.13	6.61	34.09	46.91	74.00	-27.09	V
7236.00	34.20	37.14	7.74	34.51	44.57	74.00	-29.43	V
9648.00	32.70	39.35	9.26	34.80	46.51	74.00	-27.49	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4824.00	38.93	34.13	6.61	34.09	45.58	74.00	-28.42	H
7236.00	33.95	37.14	7.74	34.51	44.32	74.00	-29.68	H
9648.00	32.28	39.35	9.26	34.80	46.09	74.00	-27.91	H
12060.00	*					74.00		H
14472.00	*					74.00		H
16884.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	29.34	34.13	6.61	34.09	35.99	54.00	-18.01	V
7236.00	23.06	37.14	7.74	34.51	33.43	54.00	-20.57	V
9648.00	23.05	39.35	9.26	34.80	36.86	54.00	-17.14	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4824.00	28.47	34.13	6.61	34.09	35.12	54.00	-18.88	H
7236.00	22.53	37.14	7.74	34.51	32.90	54.00	-21.10	H
9648.00	22.03	39.35	9.26	34.80	35.84	54.00	-18.16	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H

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Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	39.32	34.35	6.67	34.09	46.25	74.00	-27.75	V
7311.00	34.27	37.21	7.77	34.53	44.72	74.00	-29.28	V
9748.00	33.72	39.45	9.33	34.80	47.70	74.00	-26.30	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	39.80	34.35	6.67	34.09	46.73	74.00	-27.27	H
7311.00	32.91	37.21	7.77	34.53	43.36	74.00	-30.64	H
9748.00	33.61	39.45	9.33	34.80	47.59	74.00	-26.41	H
12185.00	*					74.00		H
14622.00	*					74.00		H
17059.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	30.18	34.35	6.67	34.09	37.11	54.00	-16.89	V
7311.00	22.59	37.21	7.77	34.53	33.04	54.00	-20.96	V
9748.00	22.97	39.45	9.33	34.80	36.95	54.00	-17.05	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	29.92	34.35	6.67	34.09	36.85	54.00	-17.15	H
7311.00	22.00	37.21	7.77	34.53	32.45	54.00	-21.55	H
9748.00	23.32	39.45	9.33	34.80	37.30	54.00	-16.70	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	44.83	34.57	6.74	34.09	52.05	74.00	-21.95	V
7386.00	34.93	37.29	7.80	34.55	45.47	74.00	-28.53	V
9848.00	37.01	39.55	9.41	34.81	51.16	74.00	-22.84	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4924.00	44.14	34.57	6.74	34.09	51.36	74.00	-22.64	H
7386.00	33.84	37.29	7.80	34.55	44.38	74.00	-29.62	H
9848.00	33.18	39.55	9.41	34.81	47.33	74.00	-26.67	H
12310.00	*					74.00		H
14772.00	*					74.00		H
17234.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	35.75	34.57	6.74	34.09	42.97	54.00	-11.03	V
7386.00	24.85	37.29	7.80	34.55	35.39	54.00	-18.61	V
9848.00	25.51	39.55	9.41	34.81	39.66	54.00	-14.34	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4924.00	34.51	34.57	6.74	34.09	41.73	54.00	-12.27	H
7386.00	23.23	37.29	7.80	34.55	33.77	54.00	-20.23	H
9848.00	22.44	39.55	9.41	34.81	36.59	54.00	-17.41	H
12310.00	*					54.00		H
14772.00	*					54.00		H
17234.00	*					54.00		H

Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20N) mode, and found the 802.11n HT20 mode is worse case , the report only record this mode.
2. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. "*", means this data is the too weak instrument of signal is unable to test.

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Radiated Band Edge:

Test Mode: 802.11b Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	52.32	29.15	3.41	34.01	50.87	74.00	-23.13	H
2400.00	61.56	29.16	3.43	34.01	60.14	74.00	-13.86	H
2390.00	54.05	29.15	3.41	34.01	52.60	74.00	-21.40	V
2400.00	63.53	29.16	3.43	34.01	62.11	74.00	-11.89	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.89	29.15	3.41	34.01	37.44	54.00	-16.56	H
2400.00	47.25	29.16	3.43	34.01	45.83	54.00	-8.17	H
2390.00	40.76	29.15	3.41	34.01	39.31	54.00	-14.69	V
2400.00	48.43	29.16	3.43	34.01	47.01	54.00	-6.99	V

Test Mode: 802.11b Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	53.26	29.28	3.53	34.03	52.04	74.00	-21.96	H
2500.00	48.88	29.30	3.56	34.03	47.71	74.00	-26.29	H
2483.50	55.66	29.28	3.53	34.03	54.44	74.00	-19.56	V
2500.00	51.51	29.30	3.56	34.03	50.34	74.00	-23.66	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	39.35	29.28	3.53	34.03	38.13	54.00	-15.87	H
2500.00	35.33	29.30	3.56	34.03	34.16	54.00	-19.84	H
2483.50	41.36	29.28	3.53	34.03	40.14	54.00	-13.86	V
2500.00	37.24	29.30	3.56	34.03	36.07	54.00	-17.93	V

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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Radiated Band Edge:

Test Mode: 802.11g Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.57	27.53	5.47	33.92	50.65	74.00	-23.35	H
2400.00	60.55	27.55	5.49	29.93	63.66	74.00	-10.34	H
2390.00	53.24	27.53	5.47	33.92	52.32	74.00	-21.68	V
2400.00	62.33	27.55	5.49	29.93	65.44	74.00	-8.56	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.35	27.53	5.47	33.92	37.43	54.00	-16.57	H
2400.00	46.64	27.55	5.49	29.93	49.75	54.00	-4.25	H
2390.00	40.17	27.53	5.47	33.92	39.25	54.00	-14.75	V
2400.00	47.76	27.55	5.49	29.93	50.87	54.00	-3.13	V

Test Mode: 802.11g Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	52.19	29.28	3.53	34.03	50.97	74.00	-23.03	H
2500.00	48.04	29.30	3.56	34.03	46.87	74.00	-27.13	H
2483.50	54.43	29.28	3.53	34.03	53.21	74.00	-20.79	V
2500.00	50.54	29.30	3.56	34.03	49.37	74.00	-24.63	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.70	29.28	3.53	34.03	37.48	54.00	-16.52	H
2500.00	34.82	29.30	3.56	34.03	33.65	54.00	-20.35	H
2483.50	40.64	29.28	3.53	34.03	39.42	54.00	-14.58	V
2500.00	36.70	29.30	3.56	34.03	35.53	54.00	-18.47	V

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

Radiated Band Edge:

Test Mode: 802.11n20 Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.30	27.53	5.47	33.92	50.38	74.00	-23.62	H
2400.00	60.20	27.55	5.49	29.93	63.31	74.00	-10.69	H
2390.00	52.96	27.53	5.47	33.92	52.04	74.00	-21.96	V
2400.00	61.90	27.55	5.49	29.93	65.01	74.00	-8.99	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.16	27.53	5.47	33.92	37.24	54.00	-16.76	H
2400.00	46.42	27.55	5.49	29.93	49.53	54.00	-4.47	H
2390.00	39.95	27.53	5.47	33.92	39.03	54.00	-14.97	V
2400.00	47.52	27.55	5.49	29.93	50.63	54.00	-3.37	V

Test Mode: 802.11n20 Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.81	29.28	3.53	34.03	50.59	74.00	-23.41	H
2500.00	47.75	29.30	3.56	34.03	46.58	74.00	-27.42	H
2483.50	54.00	29.28	3.53	34.03	52.78	74.00	-21.22	V
2500.00	50.19	29.30	3.56	34.03	49.02	74.00	-24.98	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.47	29.28	3.53	34.03	37.25	54.00	-16.75	H
2500.00	34.64	29.30	3.56	34.03	33.47	54.00	-20.53	H
2483.50	40.39	29.28	3.53	34.03	39.17	54.00	-14.83	V
2500.00	36.51	29.30	3.56	34.03	35.34	54.00	-18.66	V

Remark:

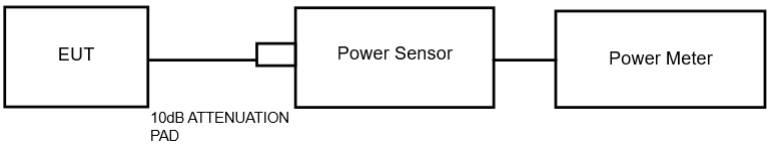
1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	30dBm

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.

2. Turn on the EUT and power meter and then record the power value.

3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24℃
Test Result	:	PASS	Humidity	:	55%RH

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power（PK）(dBm)	Limit dBm	Results
TX 802.11b Mode				
CH01	2412	15.14	30	PASS
CH06	2437	15.07	30	PASS
CH11	2462	14.70	30	PASS
TX 802.11g Mode				
CH01	2412	14.37	30	PASS
CH06	2437	16.39	30	PASS
CH11	2462	15.96	30	PASS
TX 802.11n(20) Mode				
CH01	2412	15.00	30	PASS
CH06	2437	16.39	30	PASS
CH11	2462	15.86	30	PASS

Note: For power test the duty cycle is 100% in continuous transmitting mode.

Please see the plot of next page

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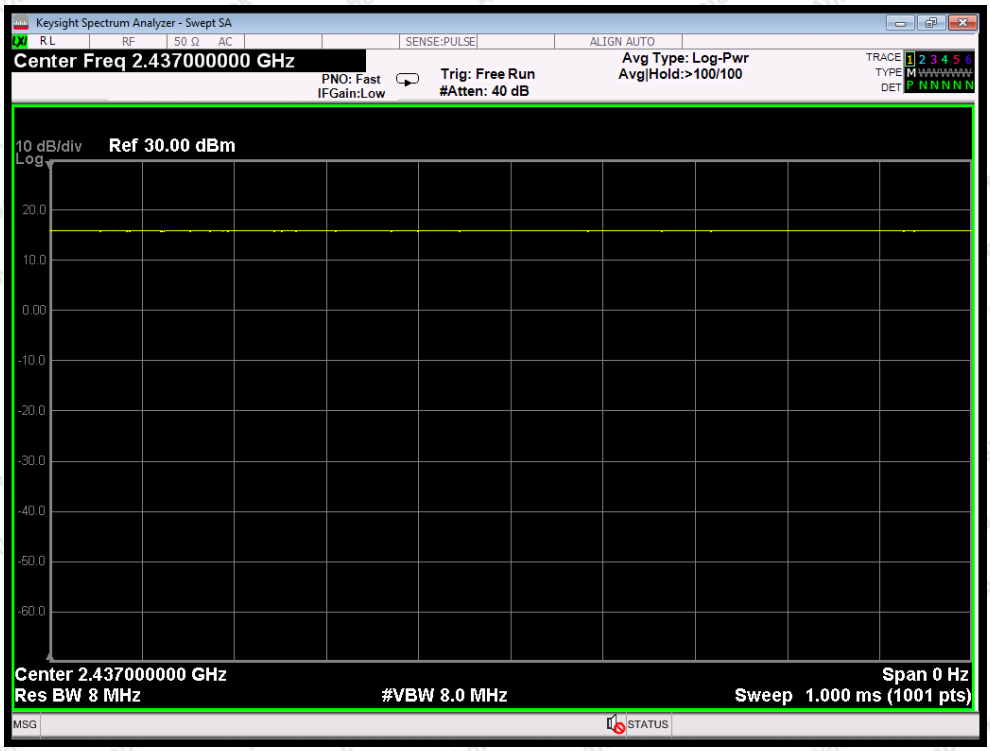
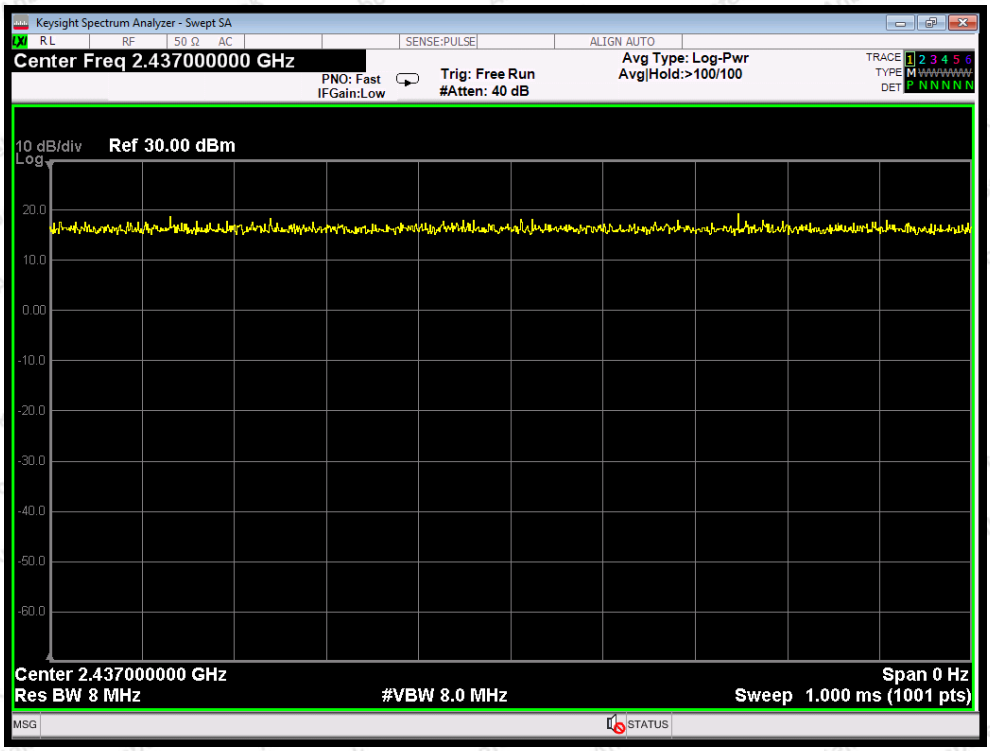
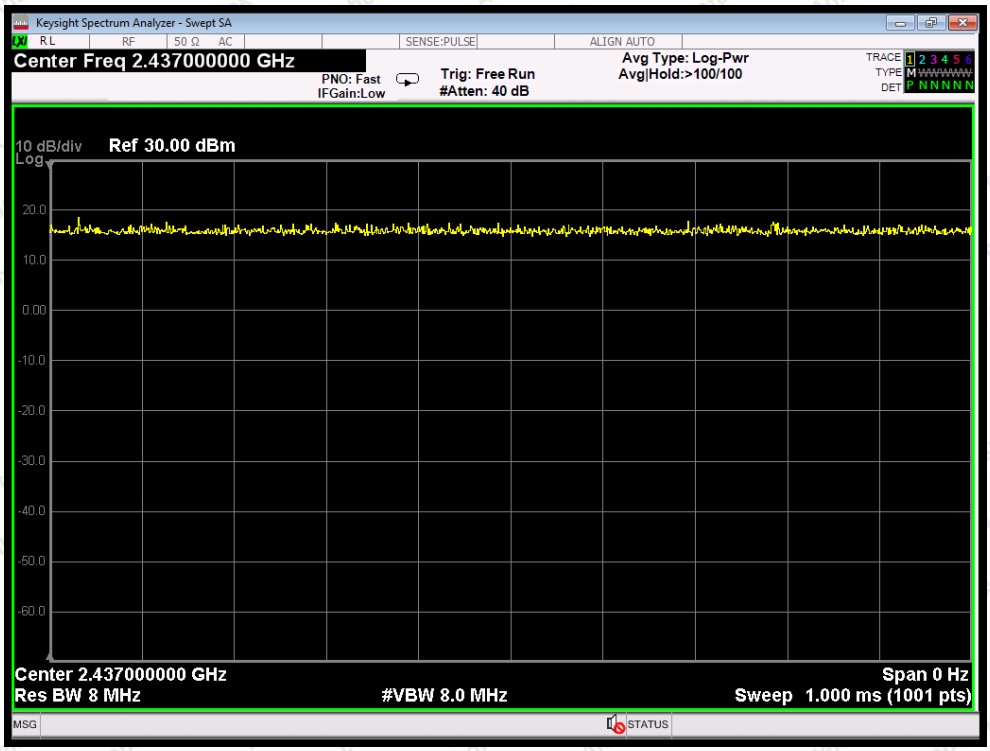
Duty Cycle



802.11b mode



802.11g mode



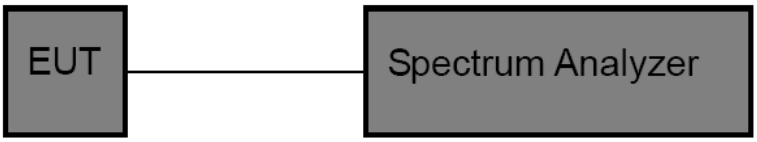
802.11n(HT20) mode

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	>500kHz

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:

   RBW= 100kHz, VBW≥3*RBW =300kHz

   Detector= Peak

   Trace mode= Max hold.

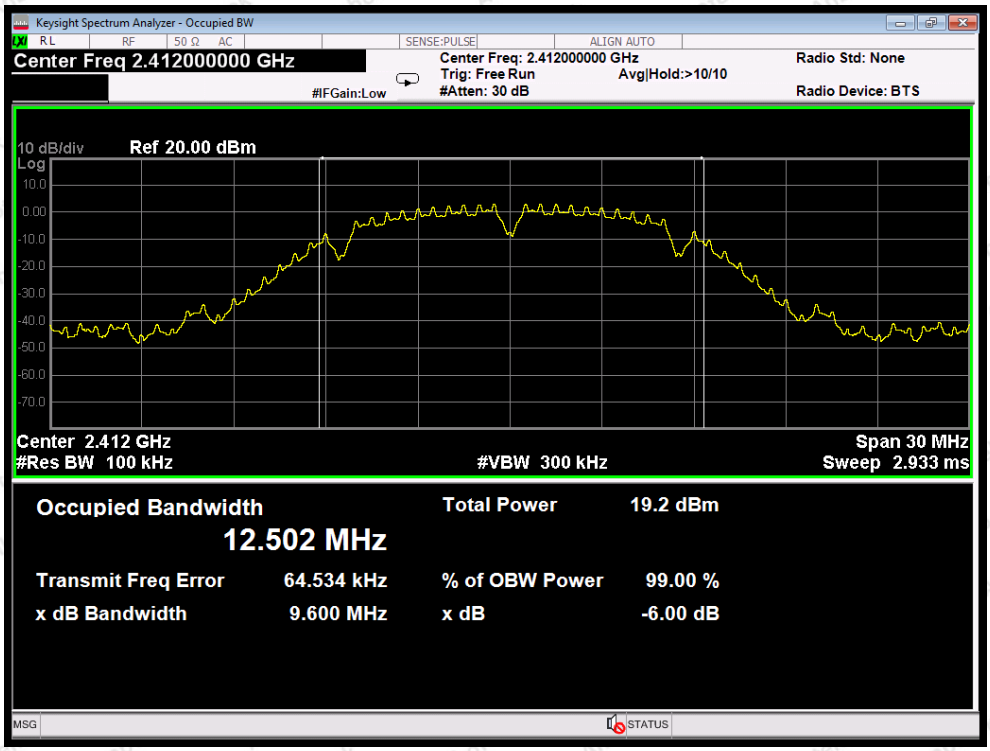
   Sweep- auto couple.
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

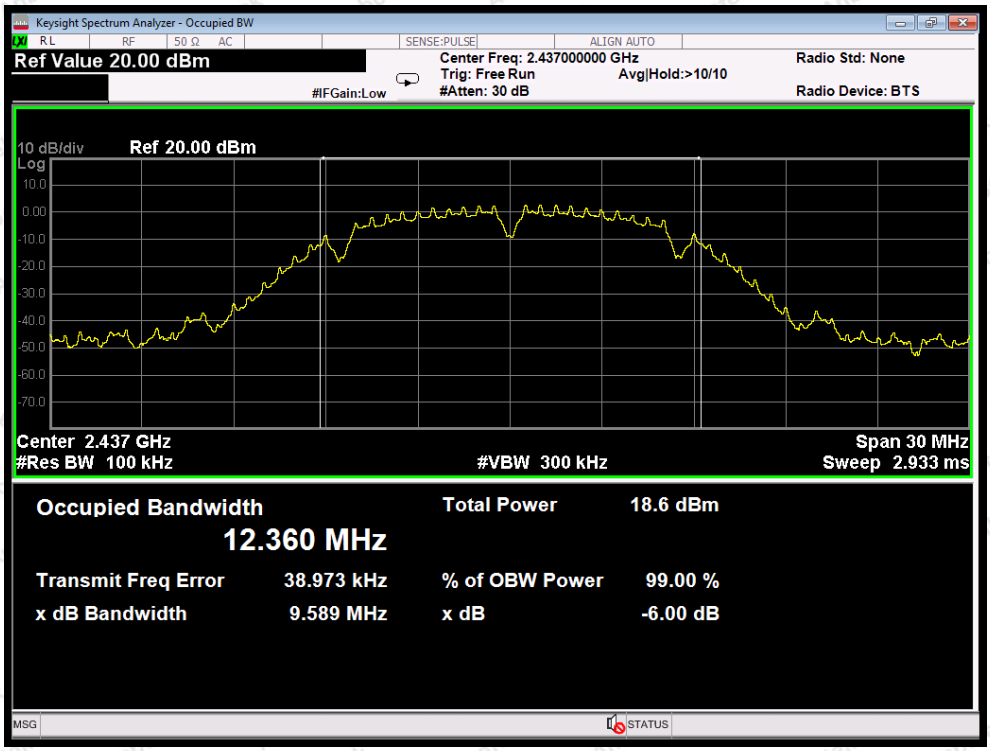
Test Item	:	6dB Bandwidth	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24℃
Test Result	:	PASS	Humidity	:	55%RH

Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
802.11b	Low	2412	9.600	>500	PASS
	Middle	2437	9.589		PASS
	High	2462	9.556		PASS
802.11g	Low	2412	15.35	>500	PASS
	Middle	2437	15.16		PASS
	High	2462	15.13		PASS
802.11n20	Low	2412	15.16	>500	PASS
	Middle	2437	15.16		PASS
	High	2462	15.43		PASS

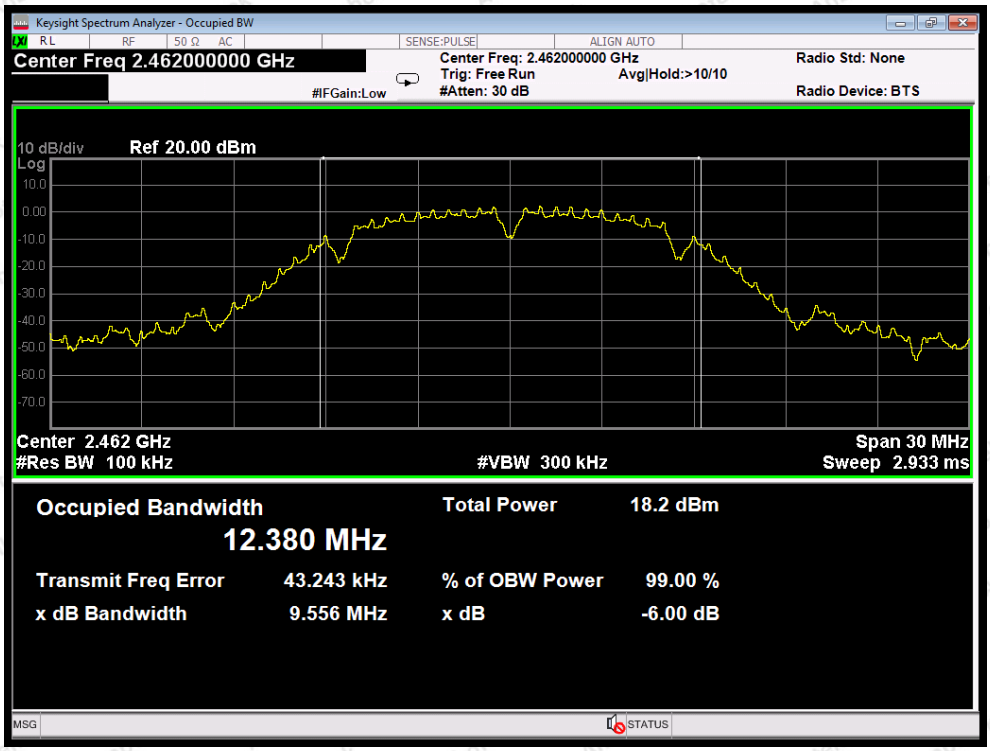
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
www.anbotek.com



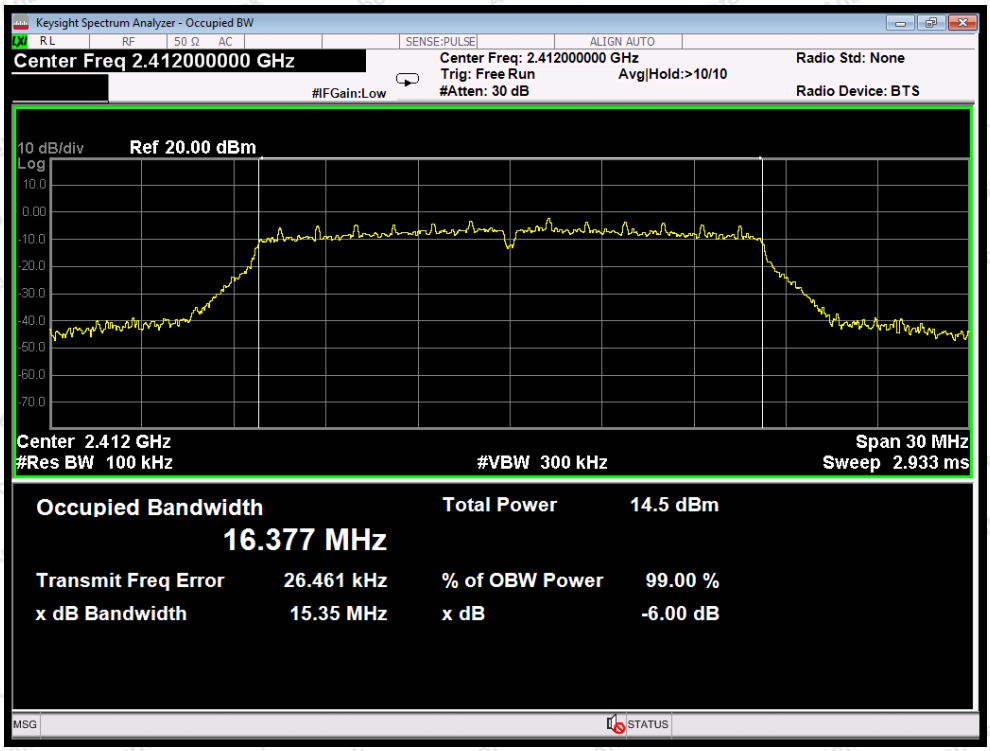
802.11b mode : Lowest



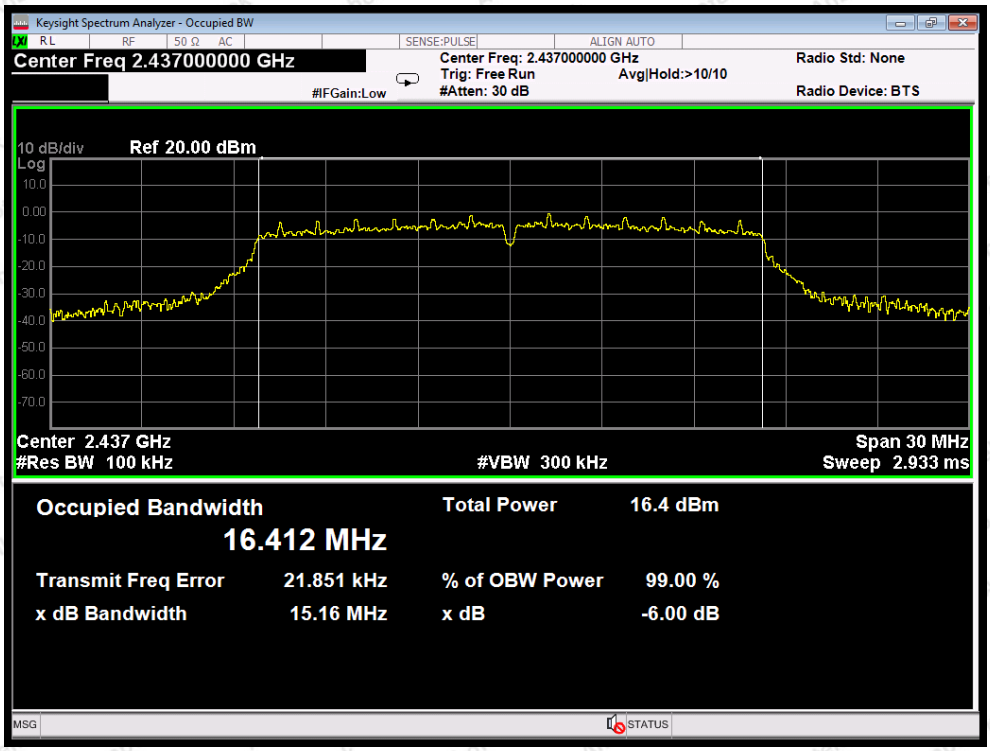
802.11b mode : Middle



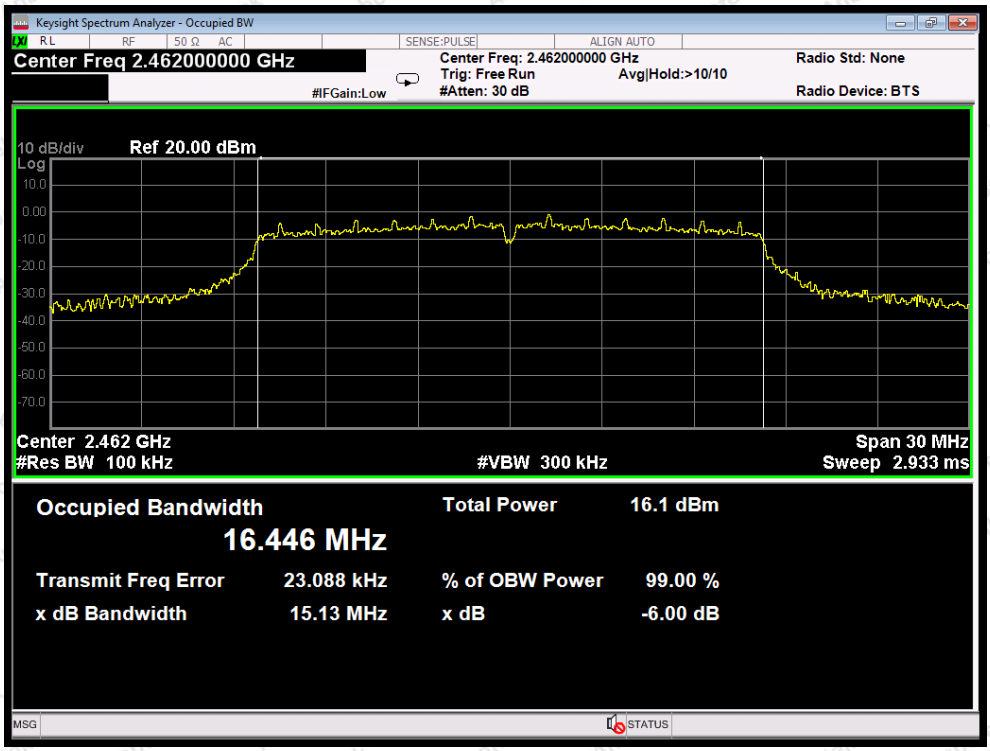
802.11b mode : Highest



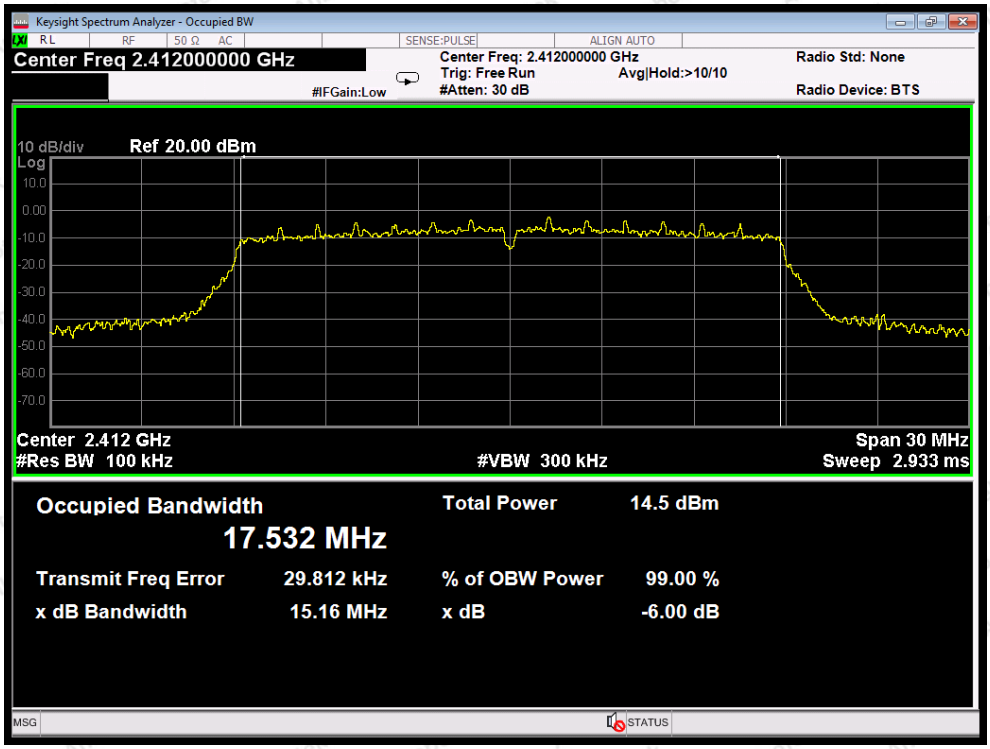
802.11g mode : Lowest



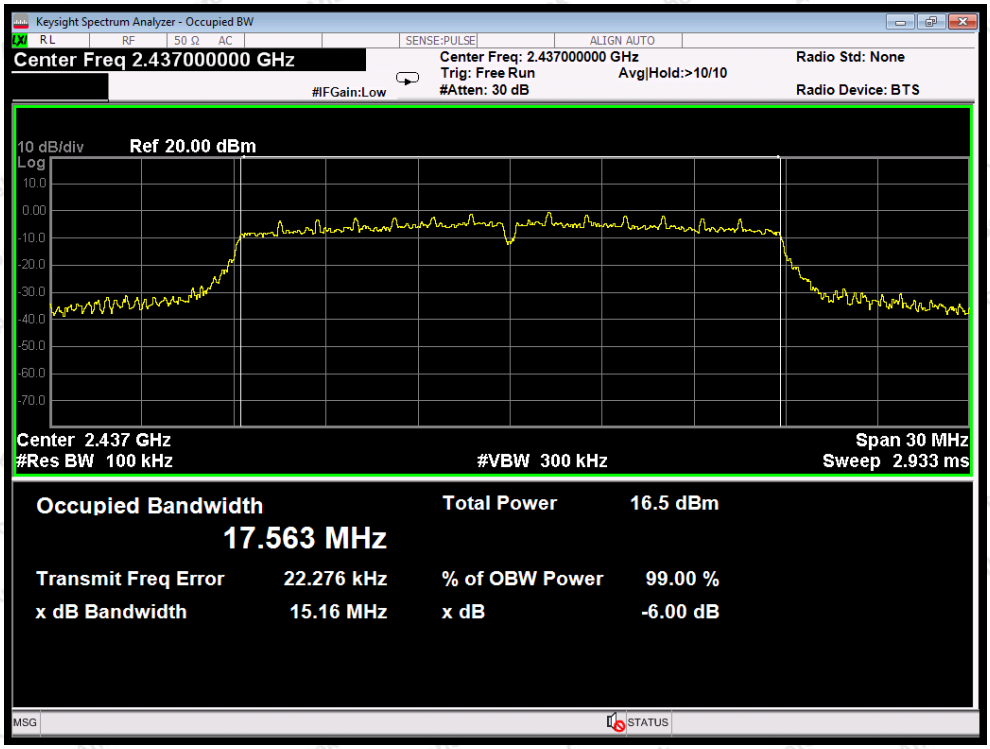
802.11g mode : Middle



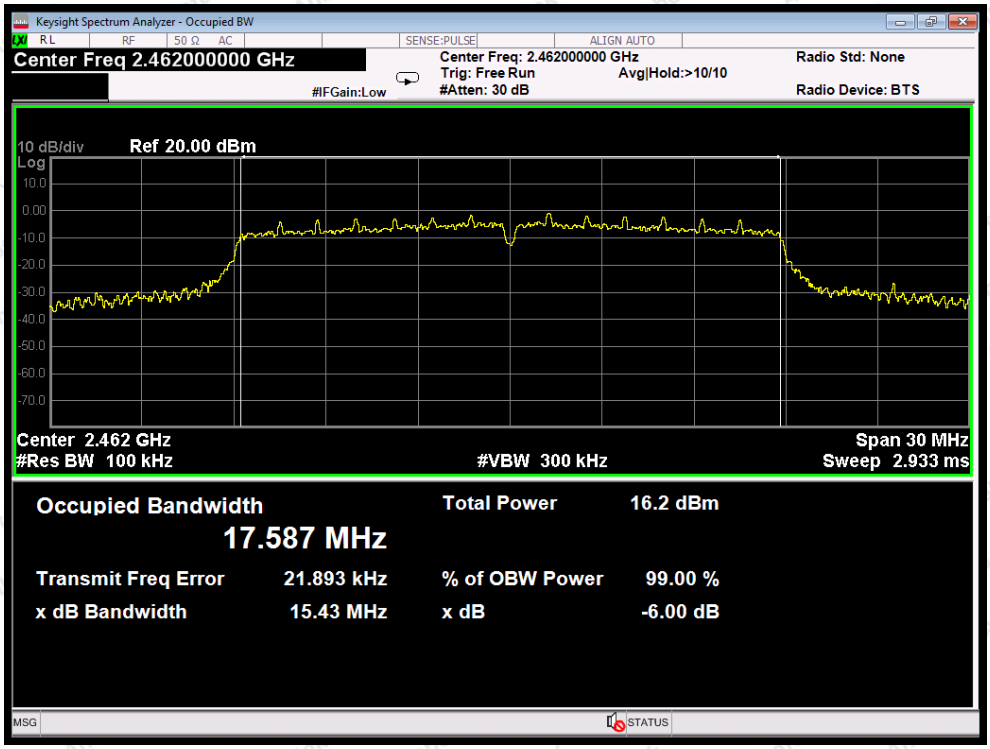
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



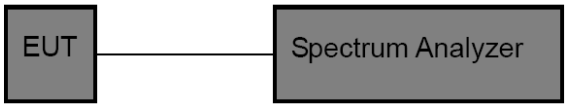
802.11n20 mode : Highest

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section
Test Limit	8dBm/3KHz

7.2. Test Setup



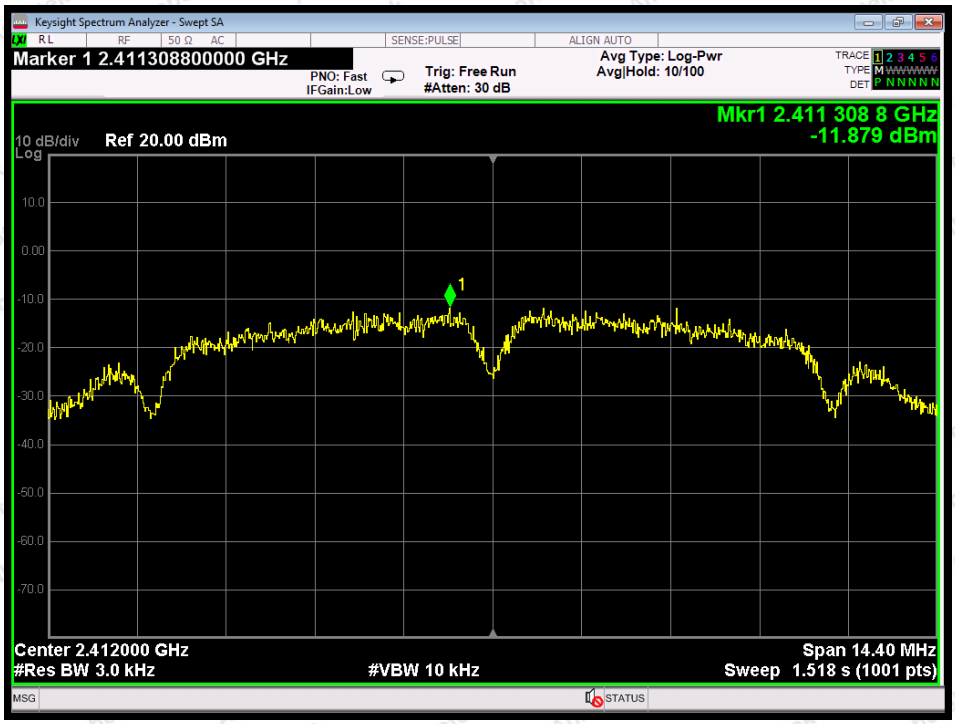
7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

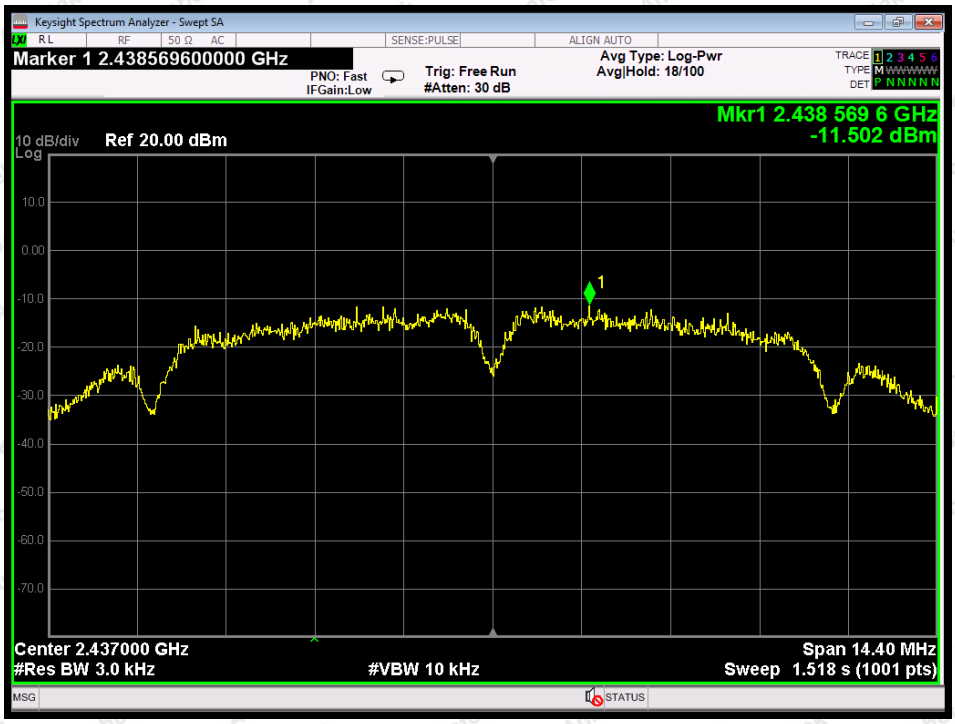
7.4. Test Data

Test Item	:	Power Spectral Density	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24℃
Test Result	:	PASS	Humidity	:	55%RH

Mode	Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
802.11b	Low	2412	-11.879	8.00	PASS
	Middle	2437	-11.502	8.00	PASS
	High	2462	-10.615	8.00	PASS
802.11g	Low	2412	-16.540	8.00	PASS
	Middle	2437	-13.837	8.00	PASS
	High	2462	-16.335	8.00	PASS
802.11n20	Low	2412	-16.185	8.00	PASS
	Middle	2437	-16.034	8.00	PASS
	High	2462	-16.104	8.00	PASS

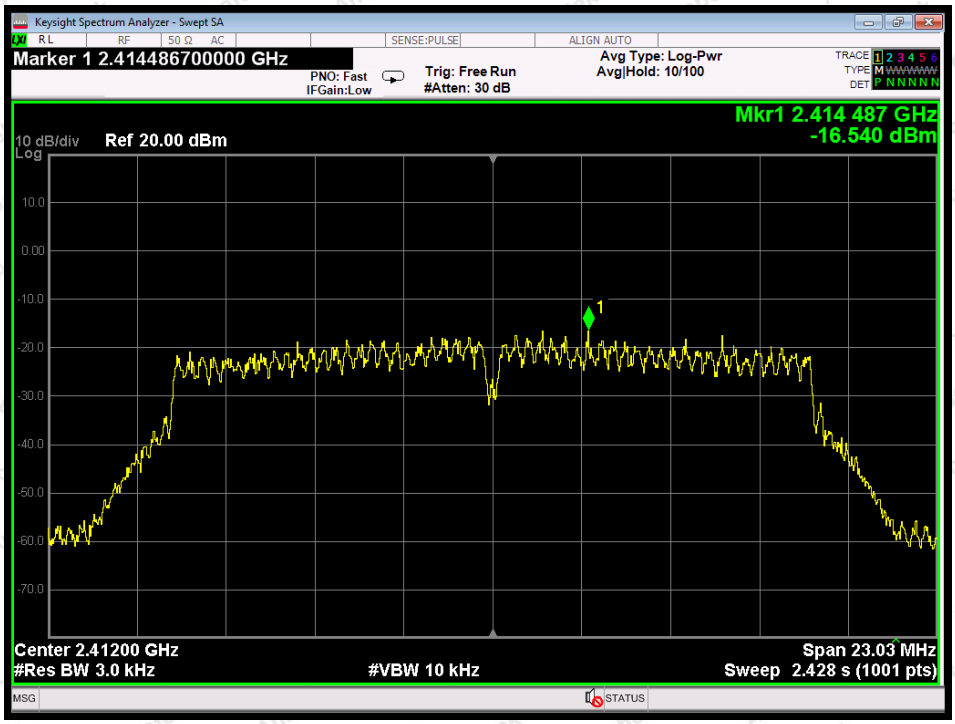


802.11b mode : Lowest

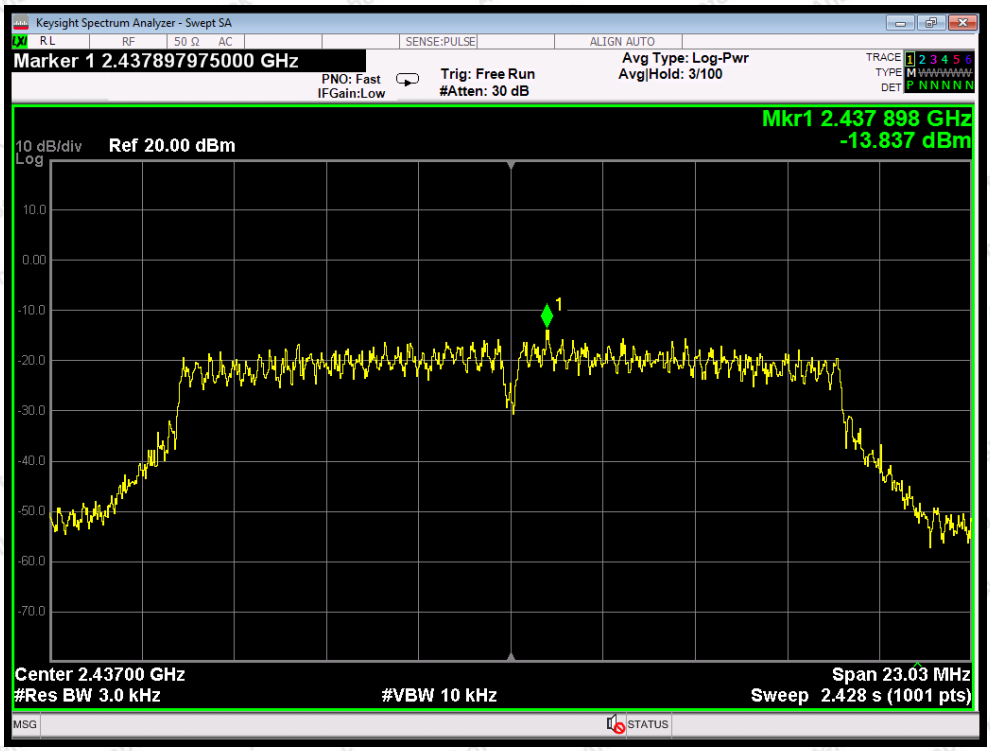


802.11b mode : Middle

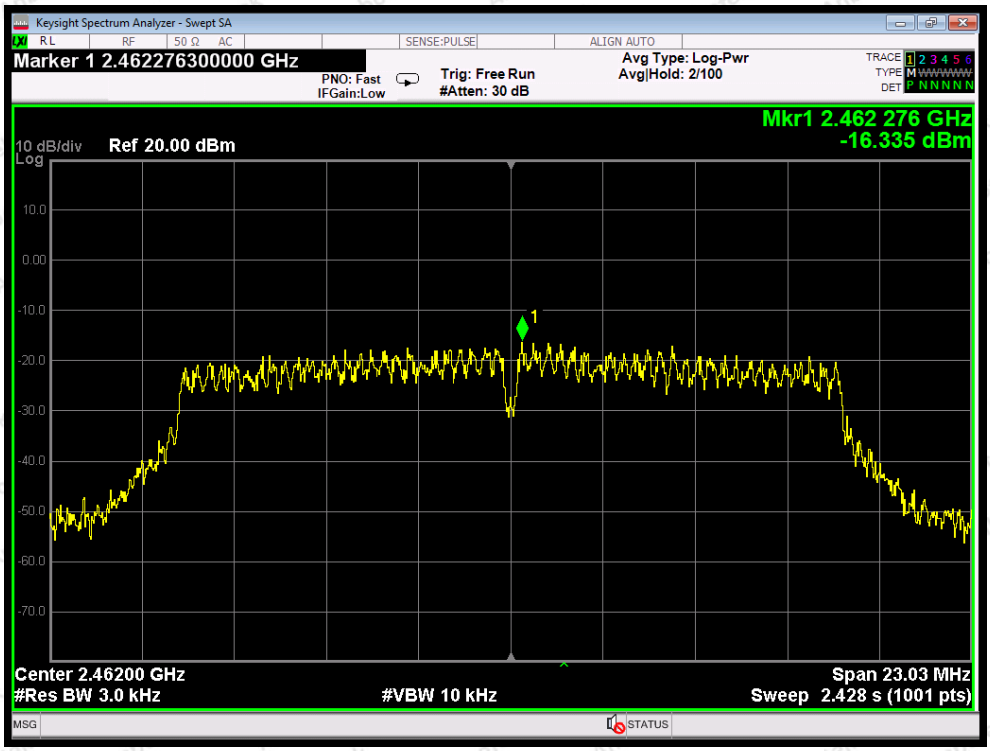
802.11b mode : Highest



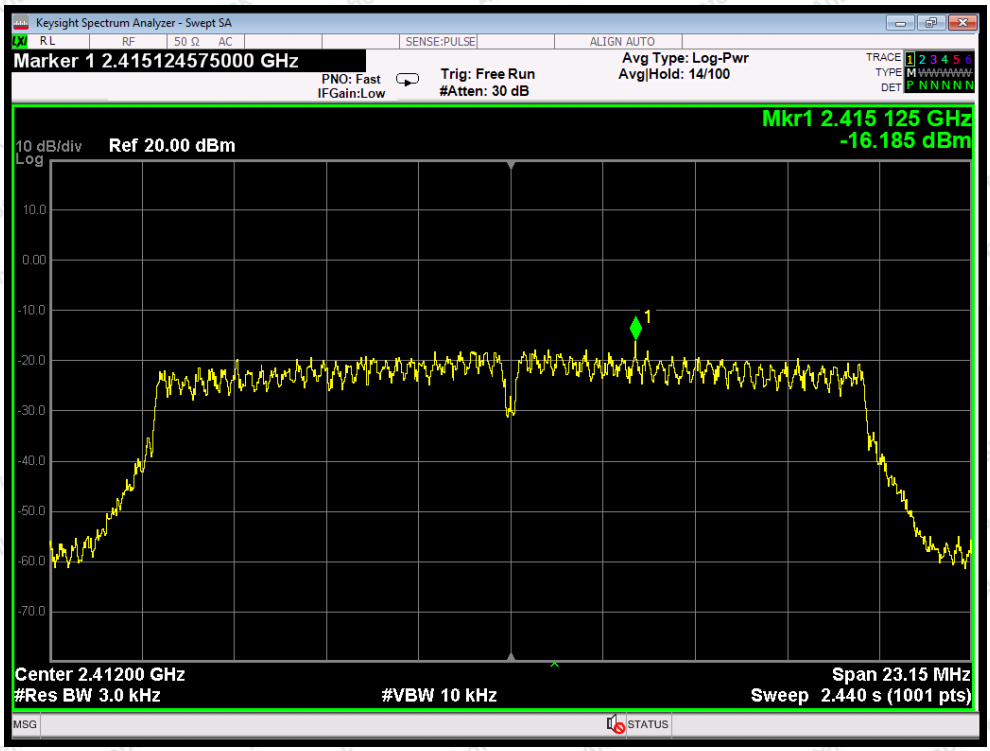
802.11g mode : Lowest



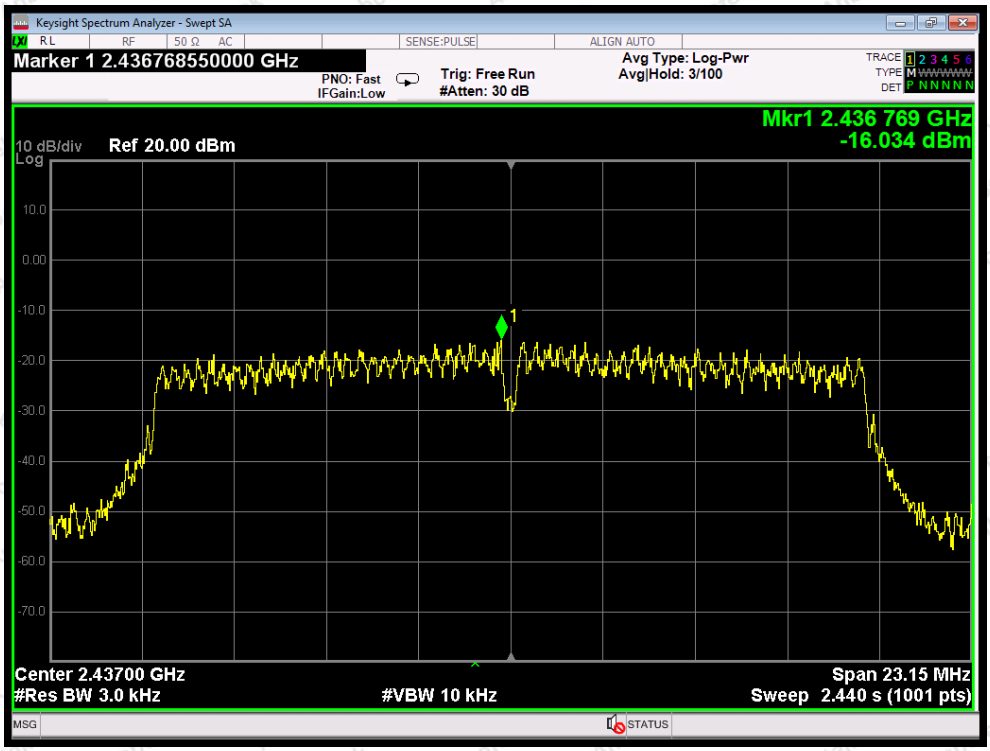
802.11g mode : Middle



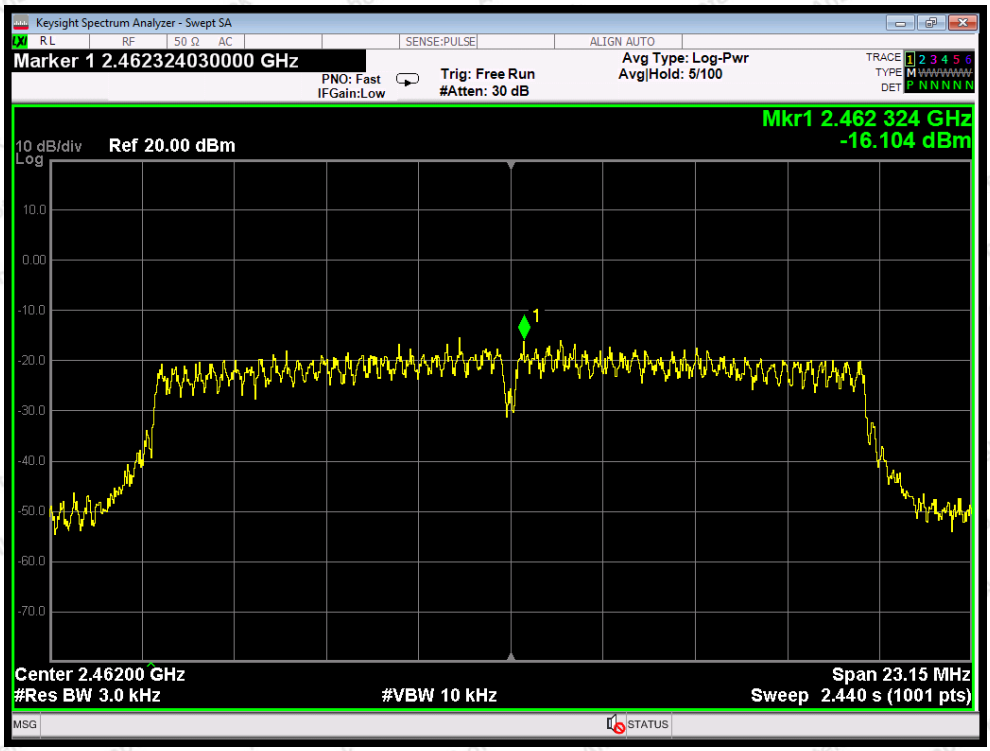
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



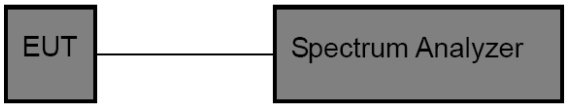
802.11n20 mode : Highest

8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

8.2. Test Setup



8.3. Test Procedure

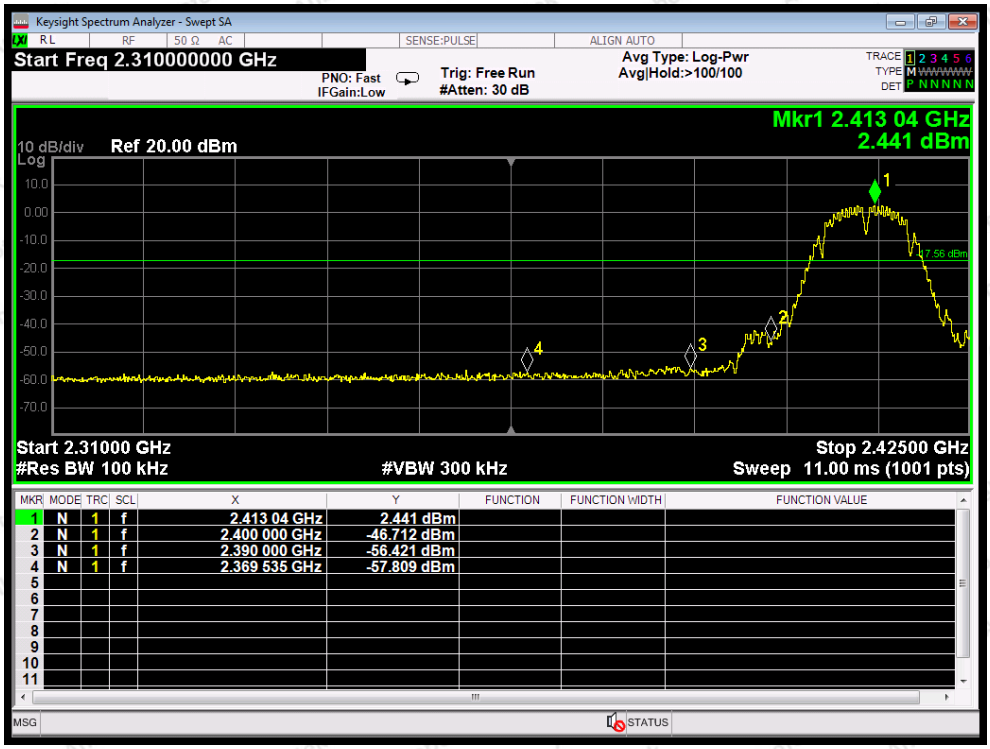
Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

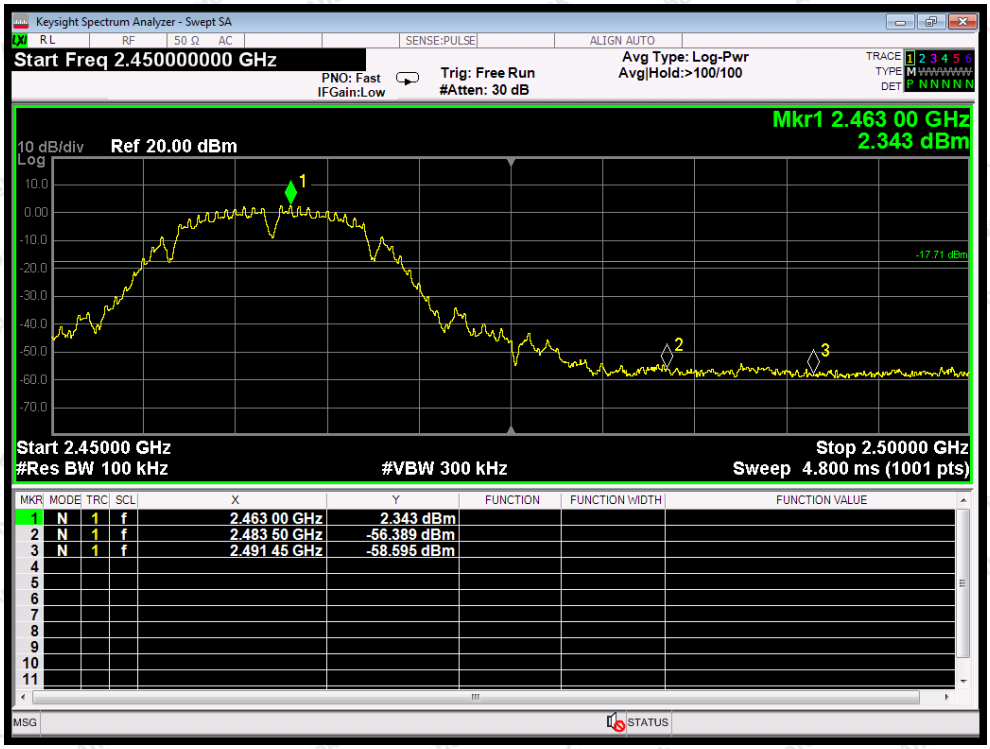
8.4. Test Data

Test Item	:	Band edge	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24℃
Test Result	:	PASS	Humidity	:	55%RH

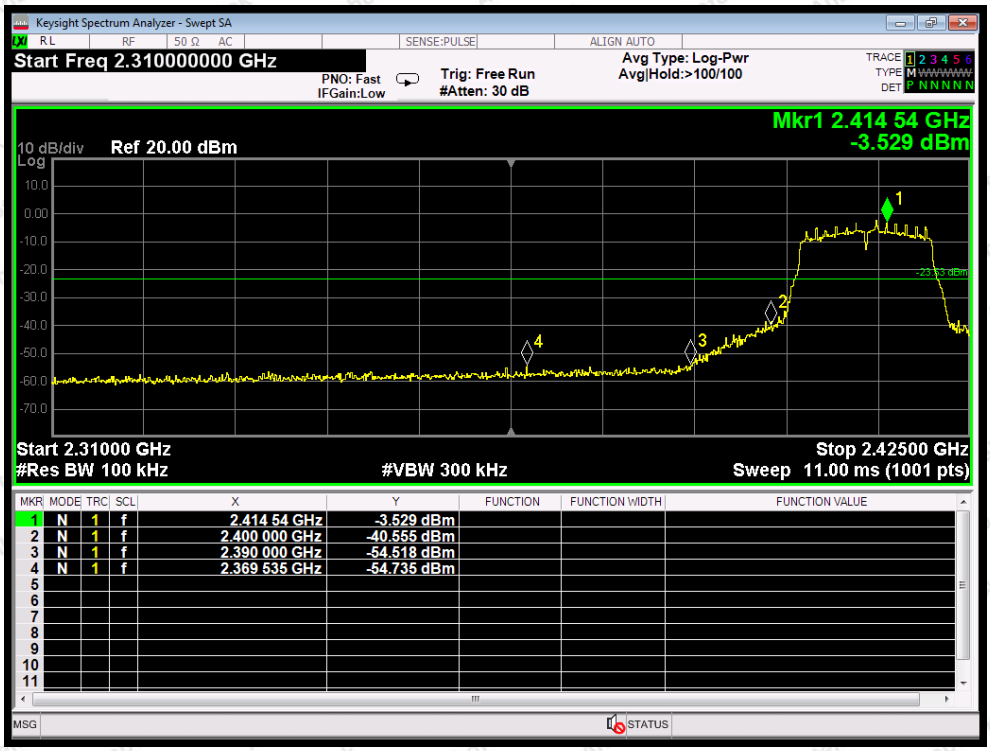
Mode	Frequency Band (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Results
802.11b	2412	49.153	>20	PASS
	2462	58.732	>20	PASS
802.11g	2412	37.026	>20	PASS
	2462	40.873	>20	PASS
802.11n20	2412	39.048	>20	PASS
	2462	39.830	>20	PASS



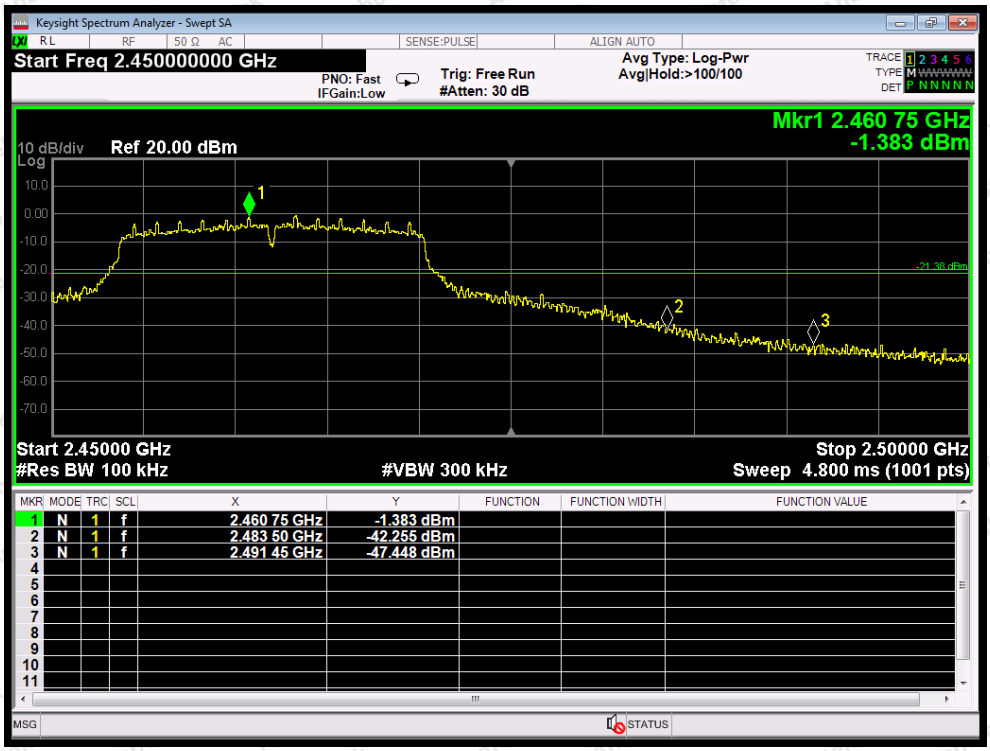
802.11b mode : Lowest



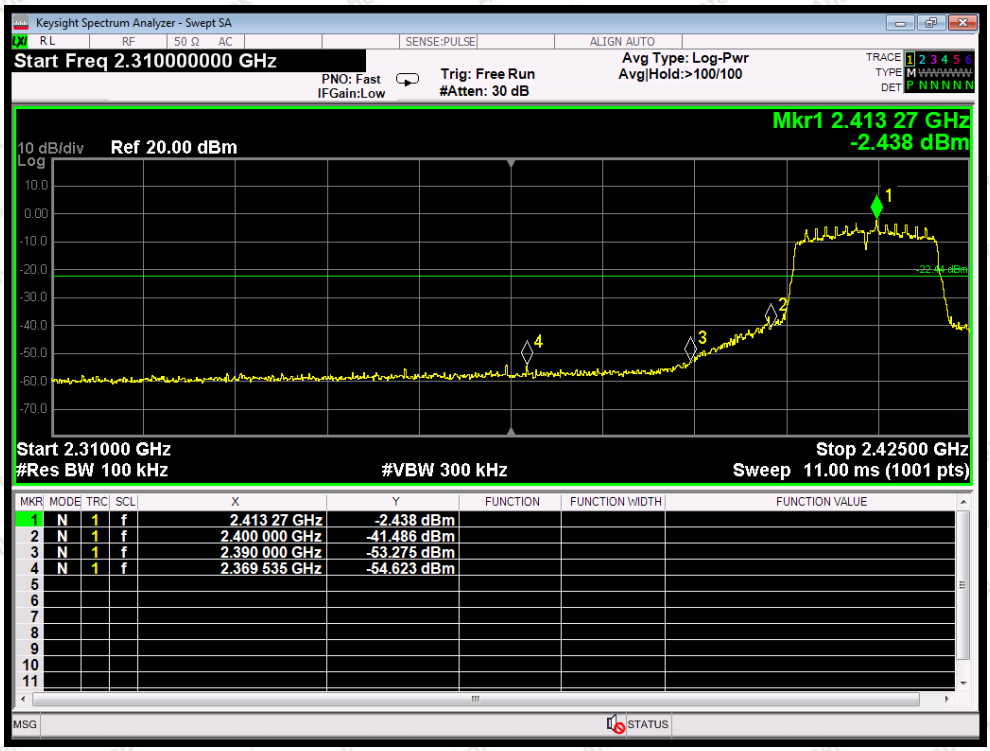
802.11b mode : Highest



802.11g mode : Lowest



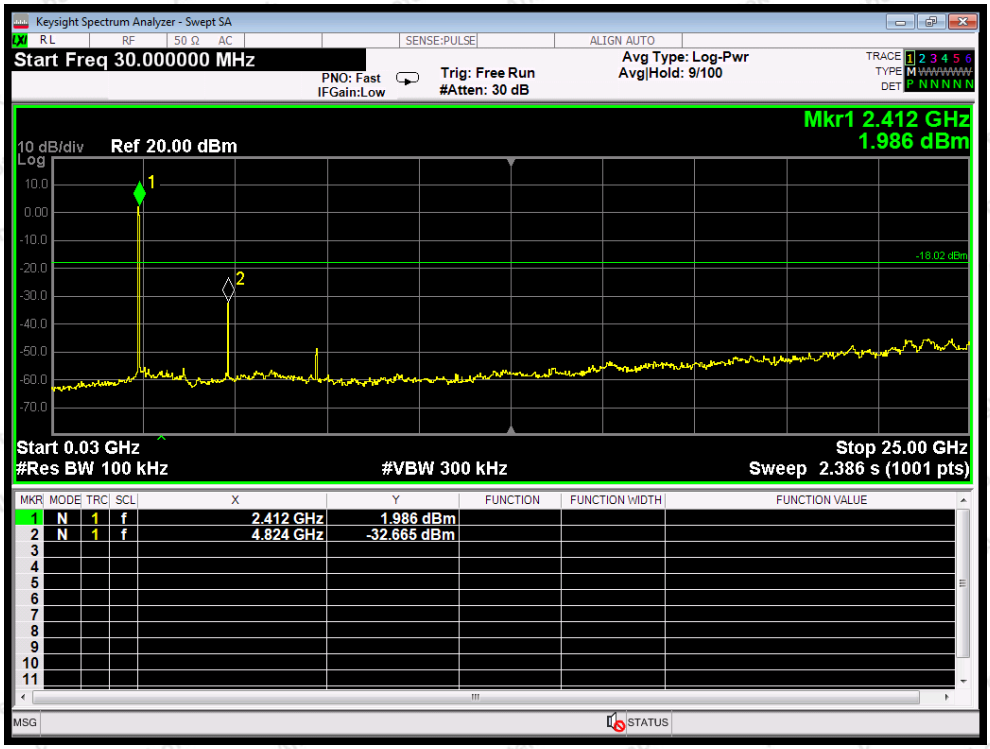
802.11g mode : Highest



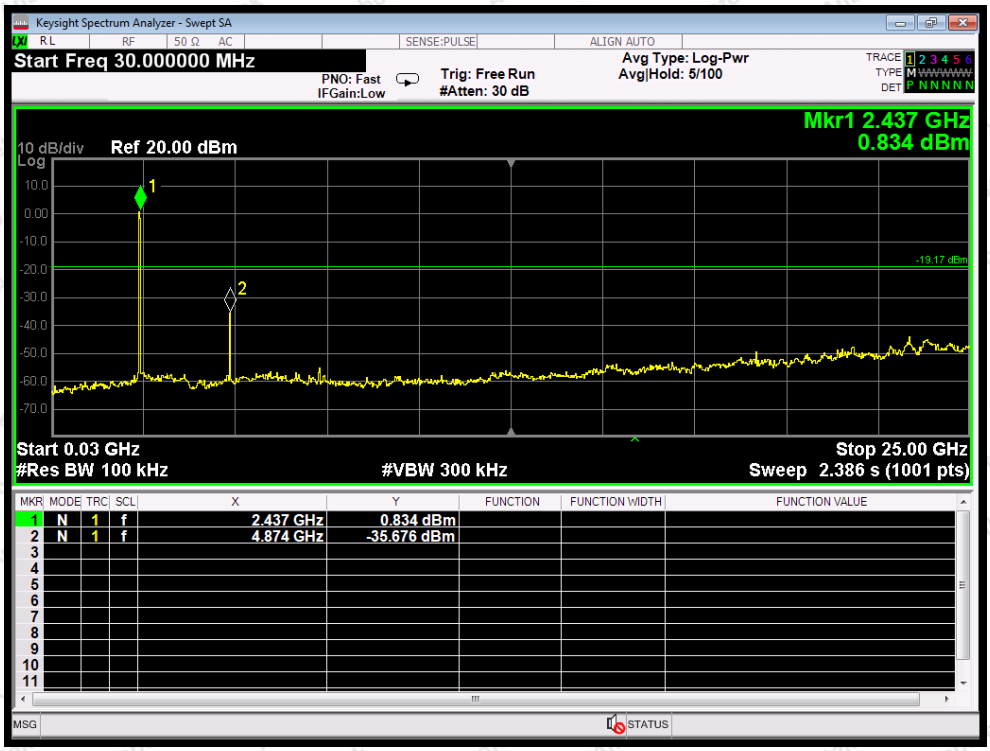
802.11n20 mode : Lowest

802.11n20 mode : Highest

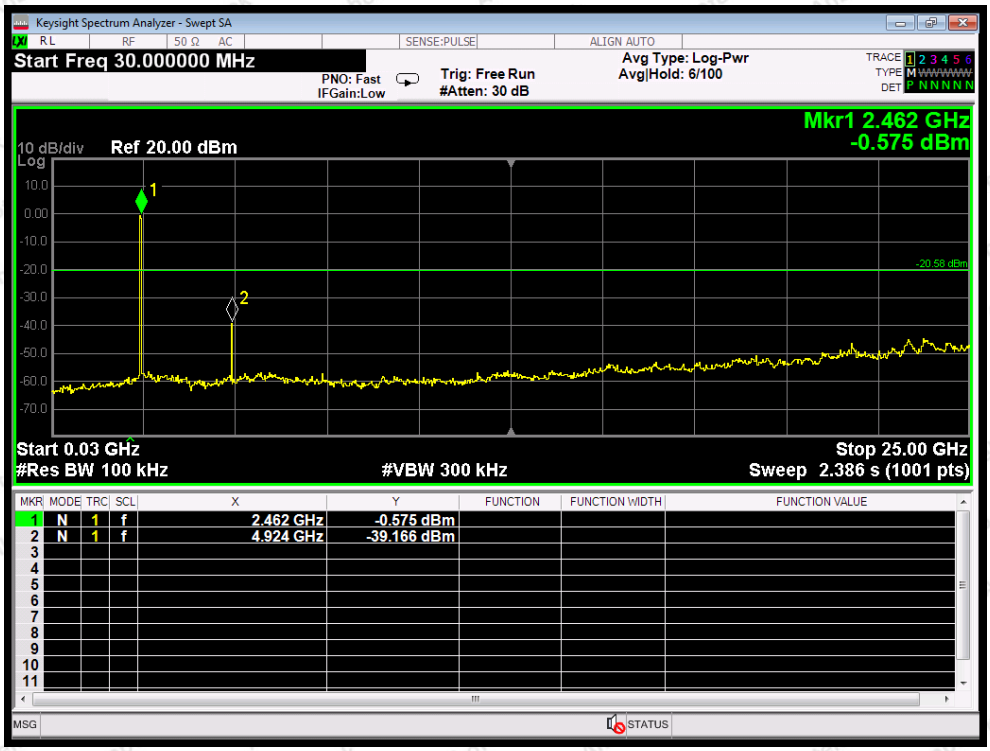
Conducted Emission Method



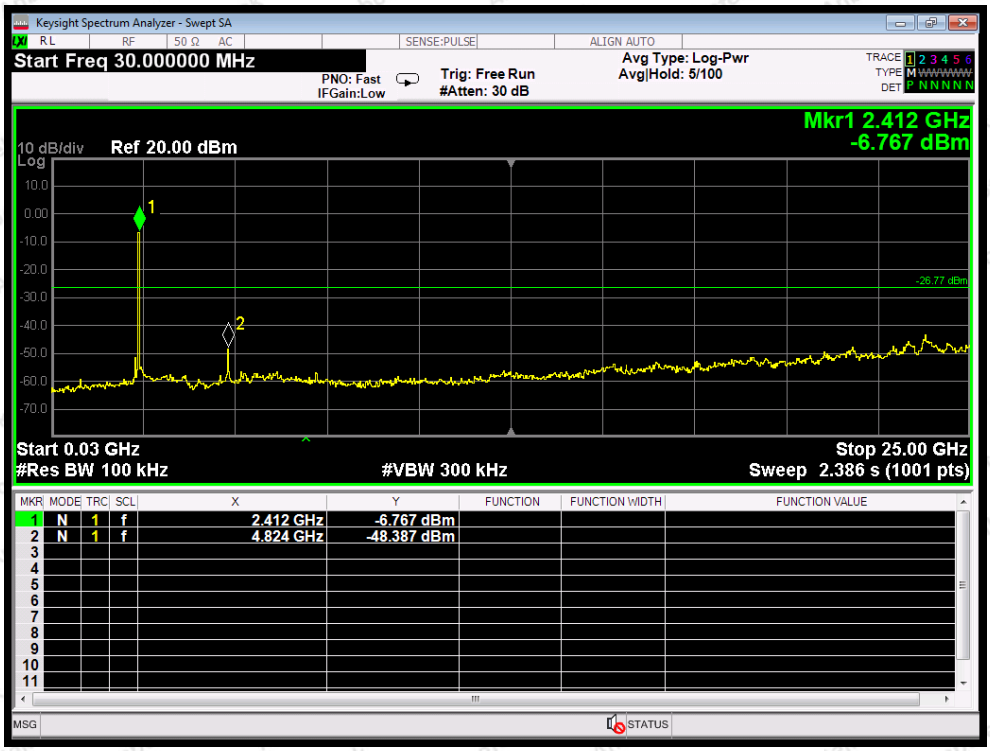
802.11b mode : Lowest



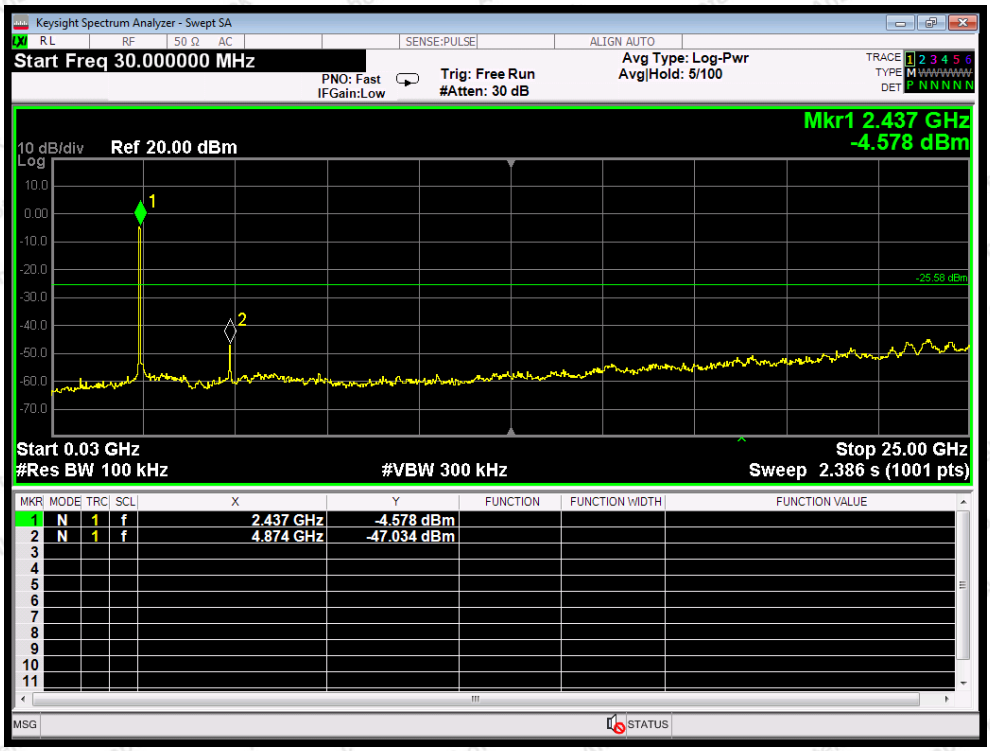
802.11b mode : Middle



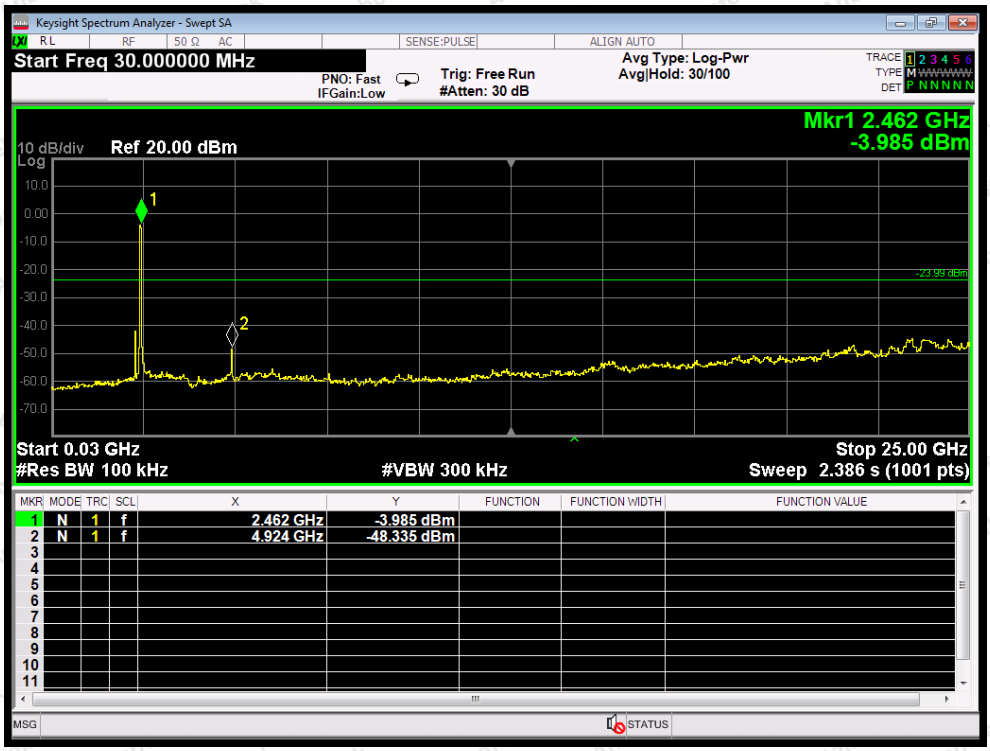
802.11b mode : Highest



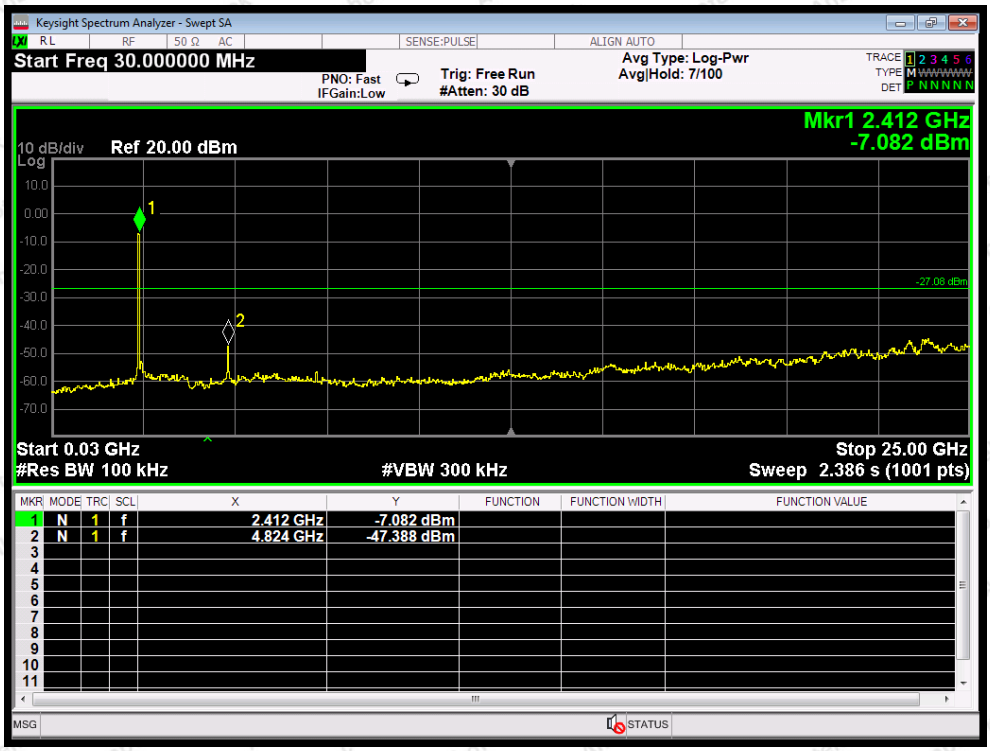
802.11g mode : Lowest



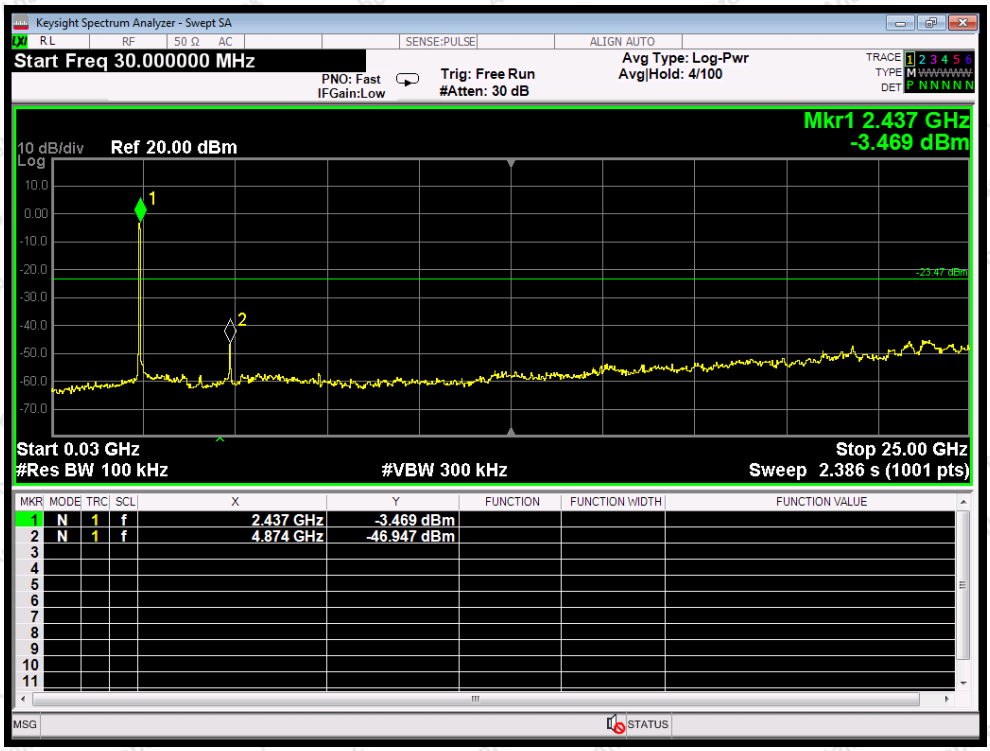
802.11g mode : Middle



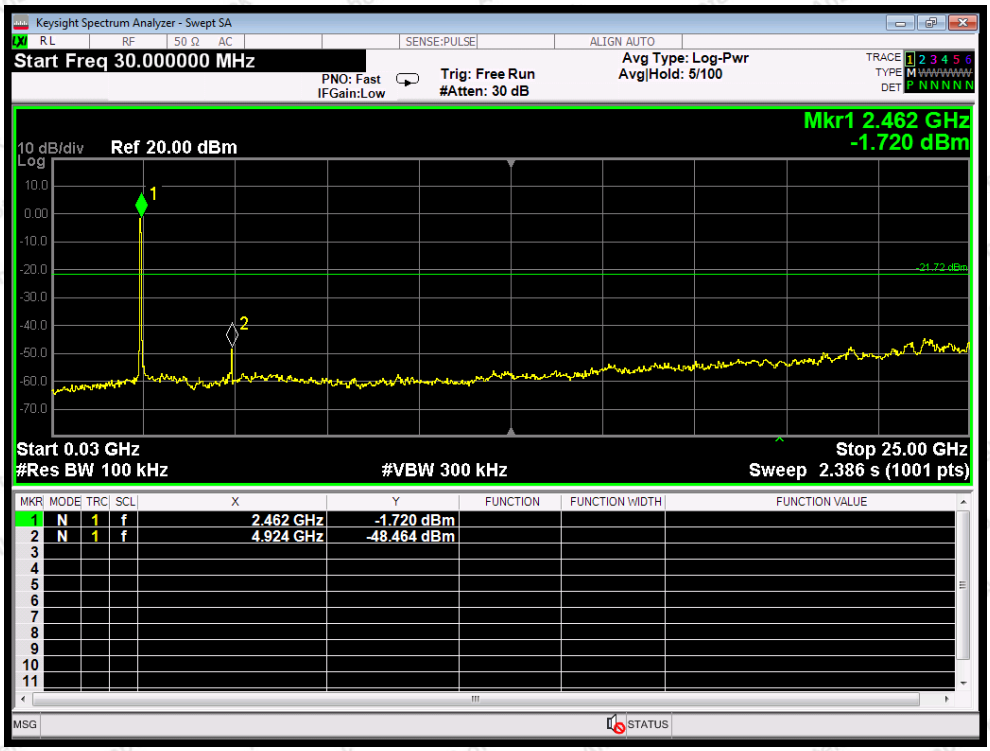
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



802.11n20 mode : Highest

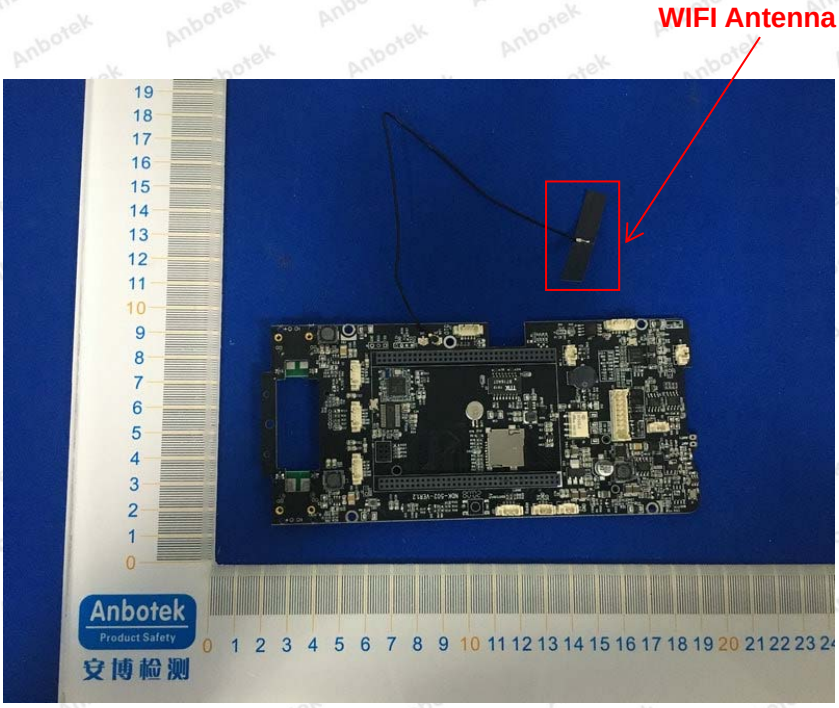
9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 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. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

9.2. Antenna Connected Construction

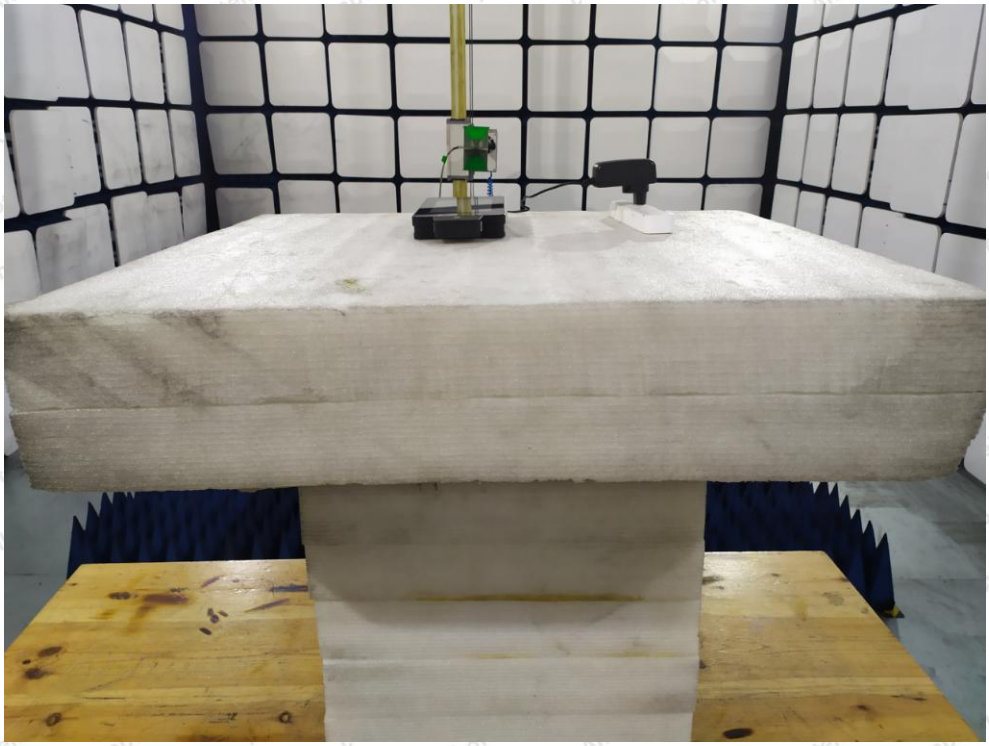
The antenna is a PIFA Antenna which permanently attached, and the best case gain of the antenna is 0 dBi It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

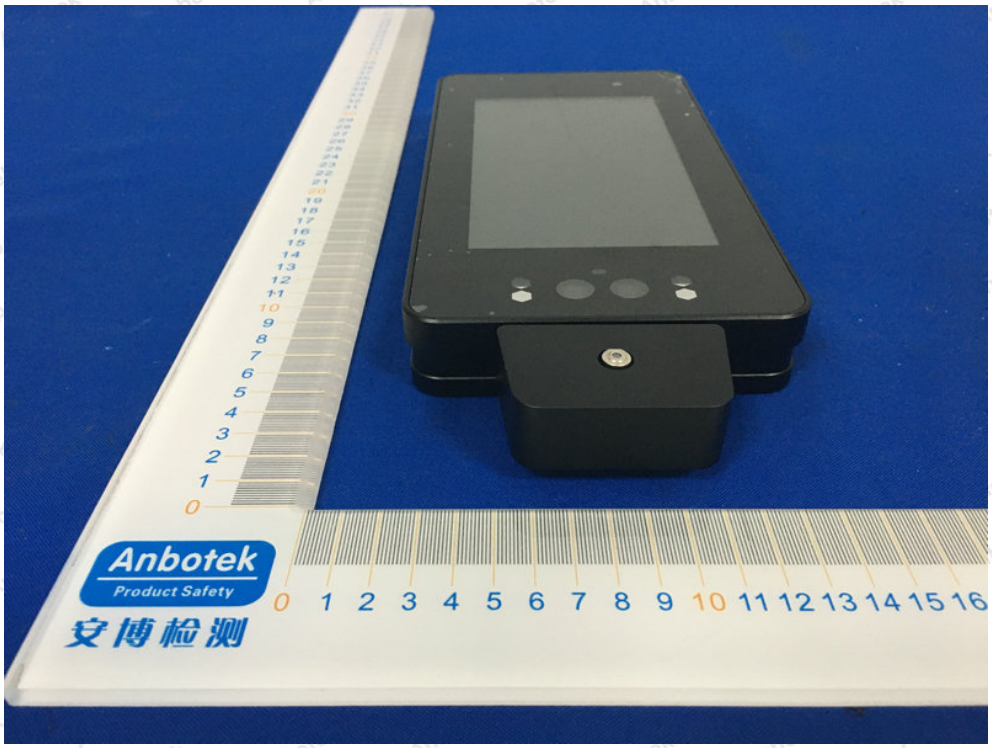
Photo of Power Line Conducted Emission Test

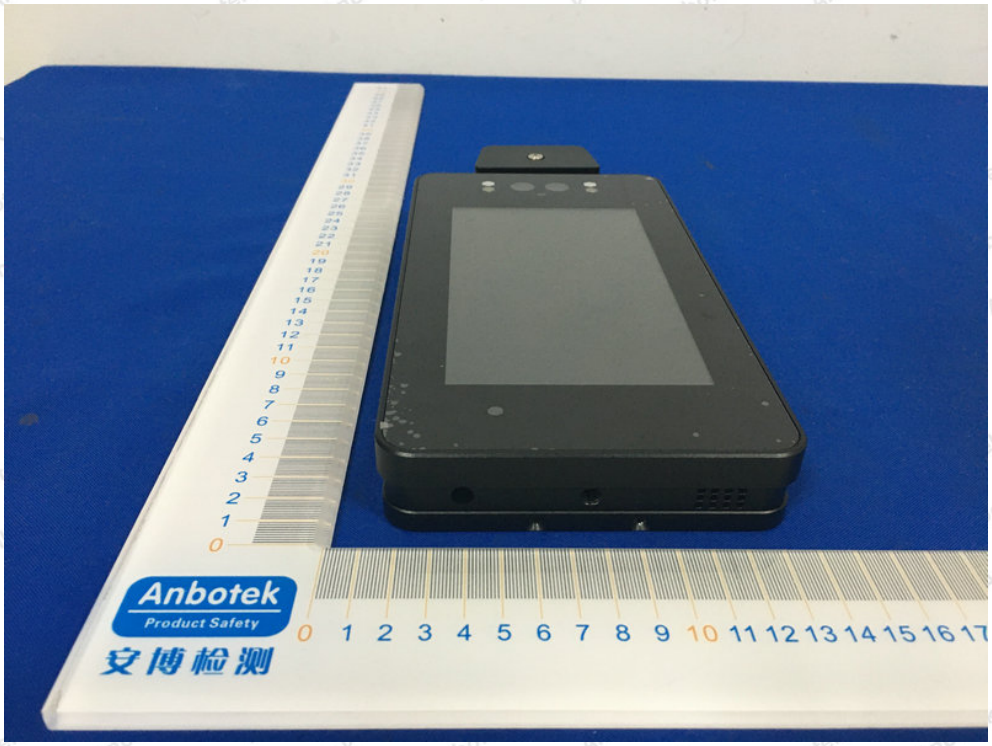
Photo of Radiation Emission Test



APPENDIX II -- EXTERNAL PHOTOGRAPH

Anbotek
Product Safety
安博检测


Anbotek
Product Safety
安博检测

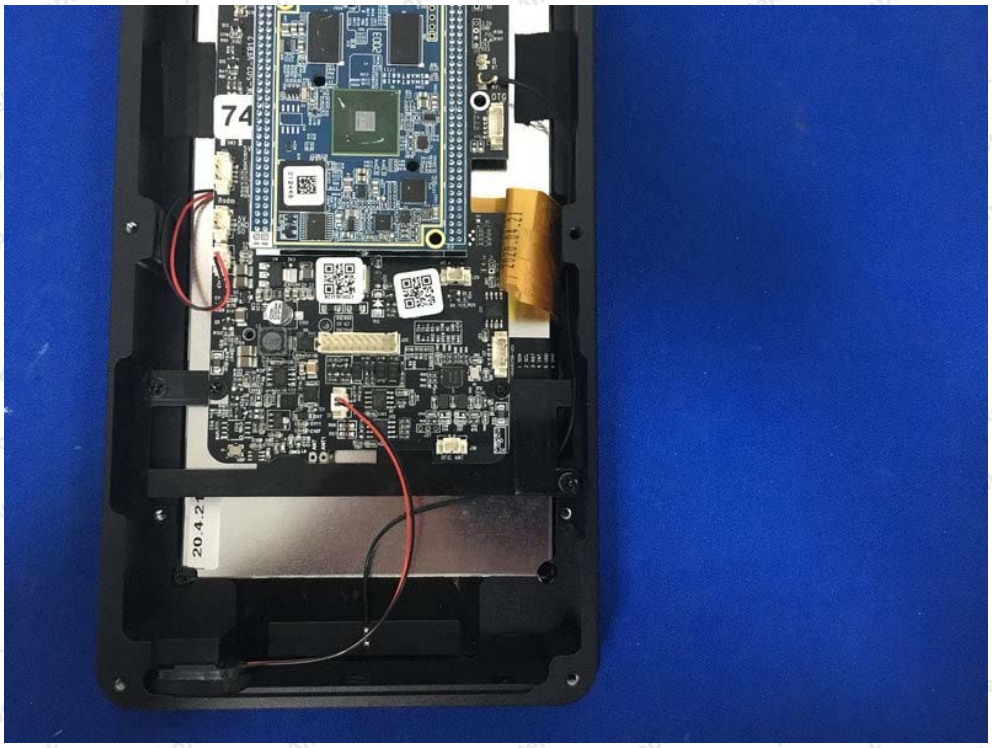

Anbotek
Product Safety
安博检测

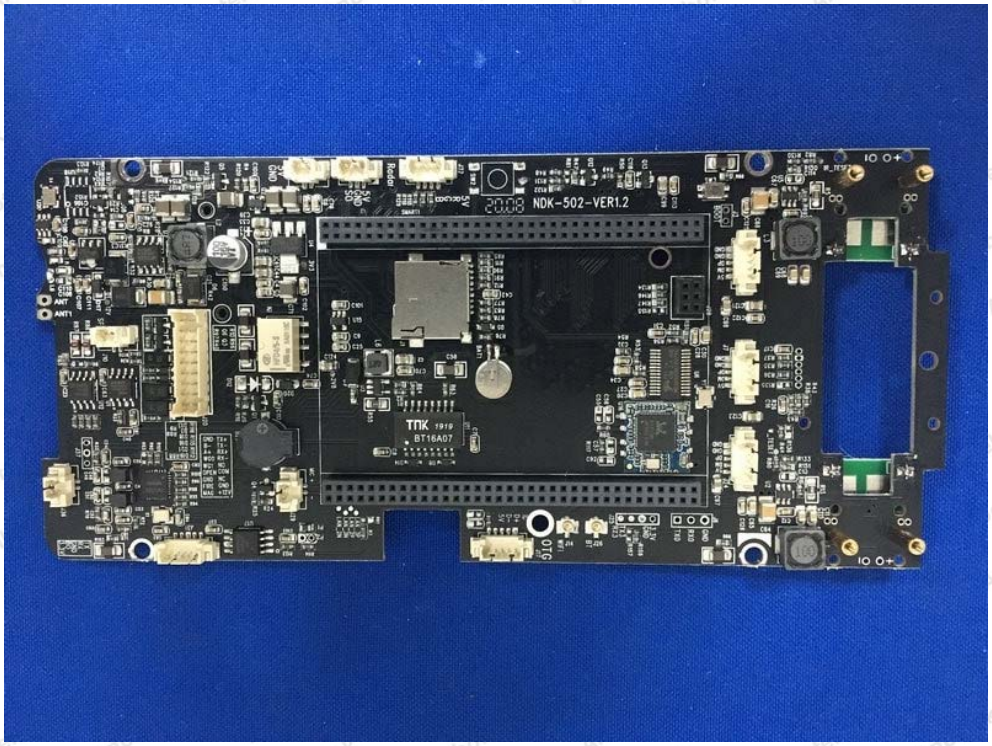
Anbotek
Product Safety
安博检测

Anbotek
Product Safety
安博检测

KUANTEN
AC ADAPTOR
电源适配器
MODEL型号: KT36W120300H
INPUT输入:100-240V~50/60Hz 1.0A
OUTPUT输出 : 12V 3A
E323418
3TWV
LISTED
I.T.E. POWER SUPPLY
HU10681-16015A
MSIP-REM-W05-KT36W120300KO
SHENZHEN KUANTEN LIMITED
MADE IN CHINA(中国制造) S/N:1753

APPENDIX III -- INTERNAL PHOTOGRAPH

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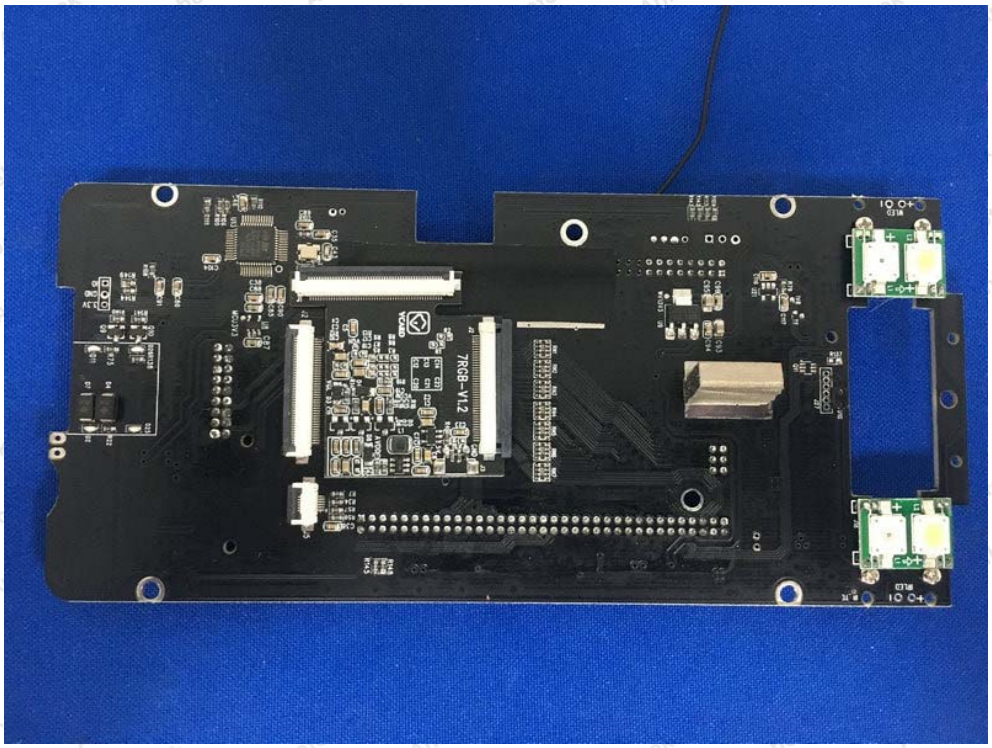
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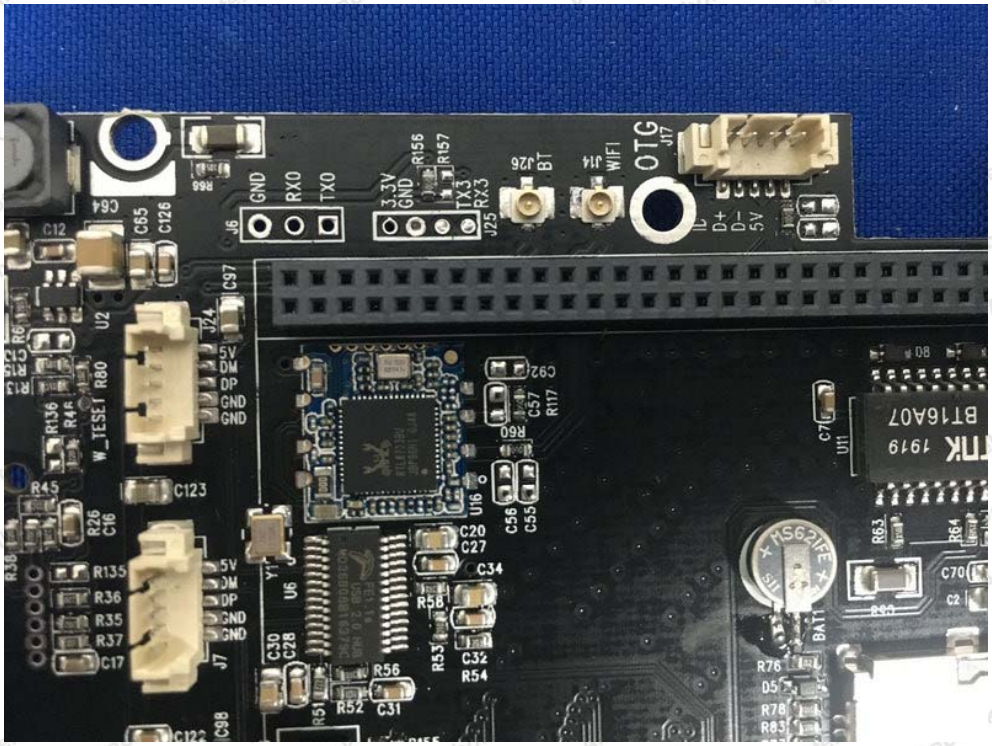
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J17
J26
BT
J14
WIFI
GND
RXO
TXO
J6
3.3V
GND
TX3
RX3
J25
R156
R157
C64
C65
C126
C12
C97
U2
J24
5V
DM
DP
GND
GND
W_TESET
R80
R136
R46
R45
C123
R26
C16
R135
R36
R35
R37
C17
J7
Y1
U6
C30
C28
R56
R52
C31
R51
C98
C20
C27
C34
R58
R53
C32
R54
U16
C56
C55
C57
R117
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R64
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C2
BAT1
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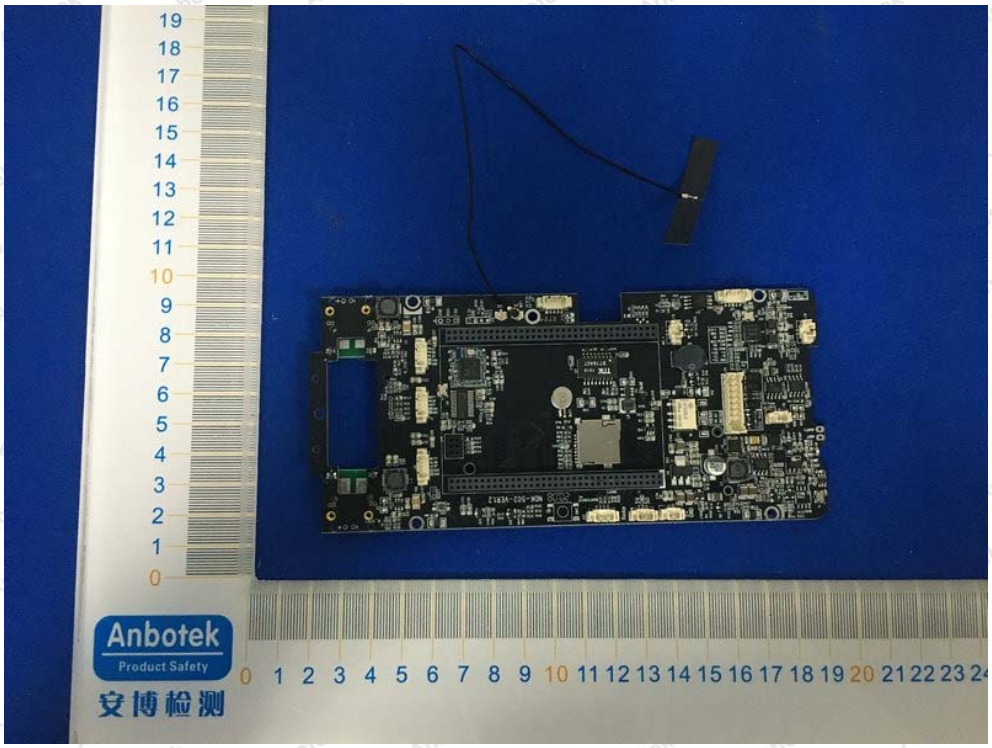
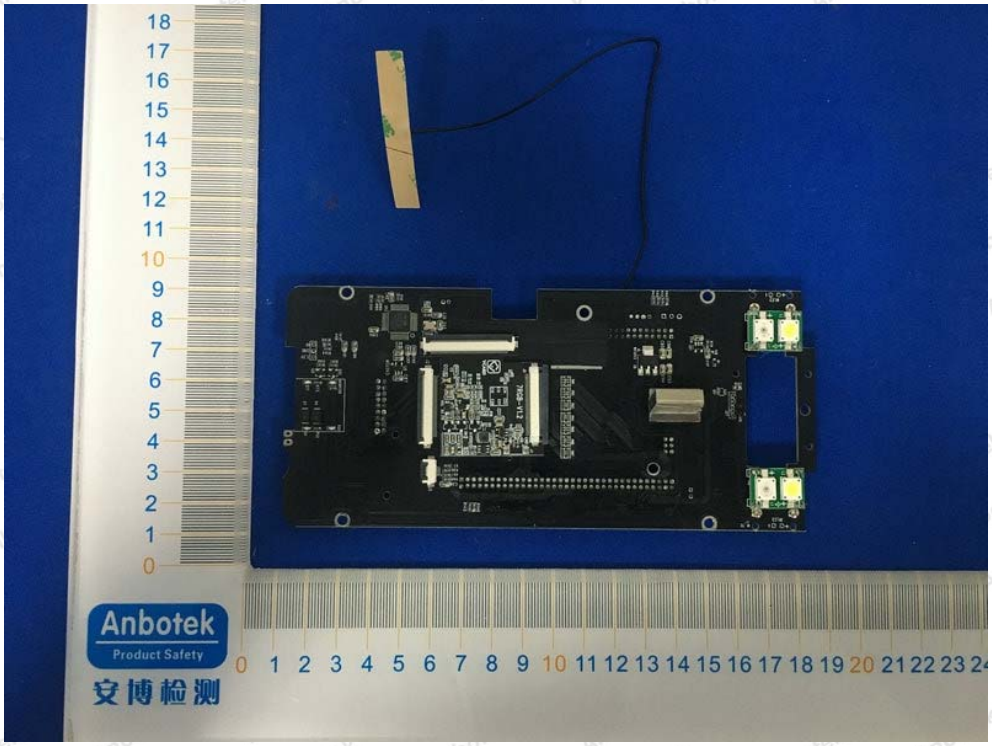
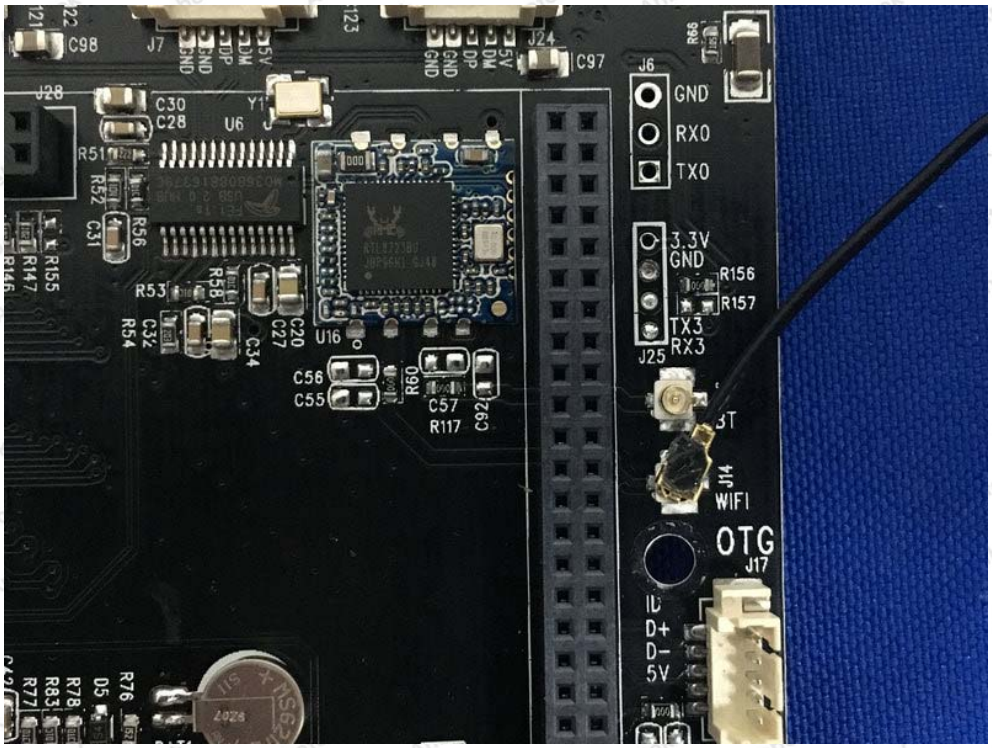
D5
R78
R83


Anbotek
Product Safety
安博检测


Anbotek
Product Safety
安博检测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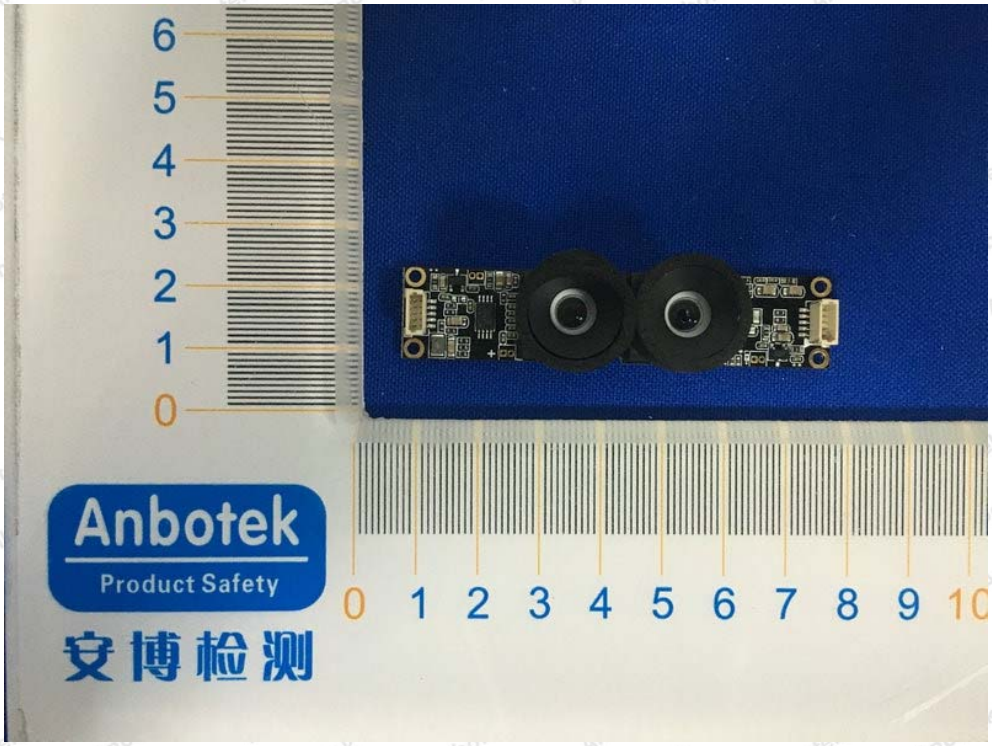
TX0
3.3V
GND
TX3
RX3
WIFI
OTG
D+
D-
5V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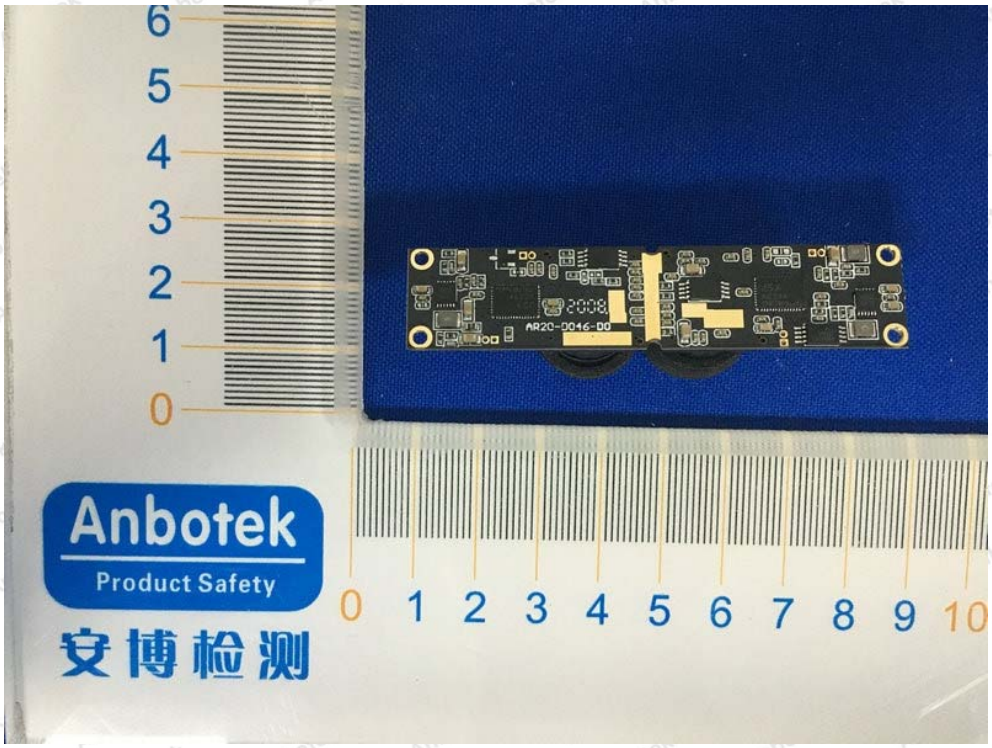
Product Safety
安博检测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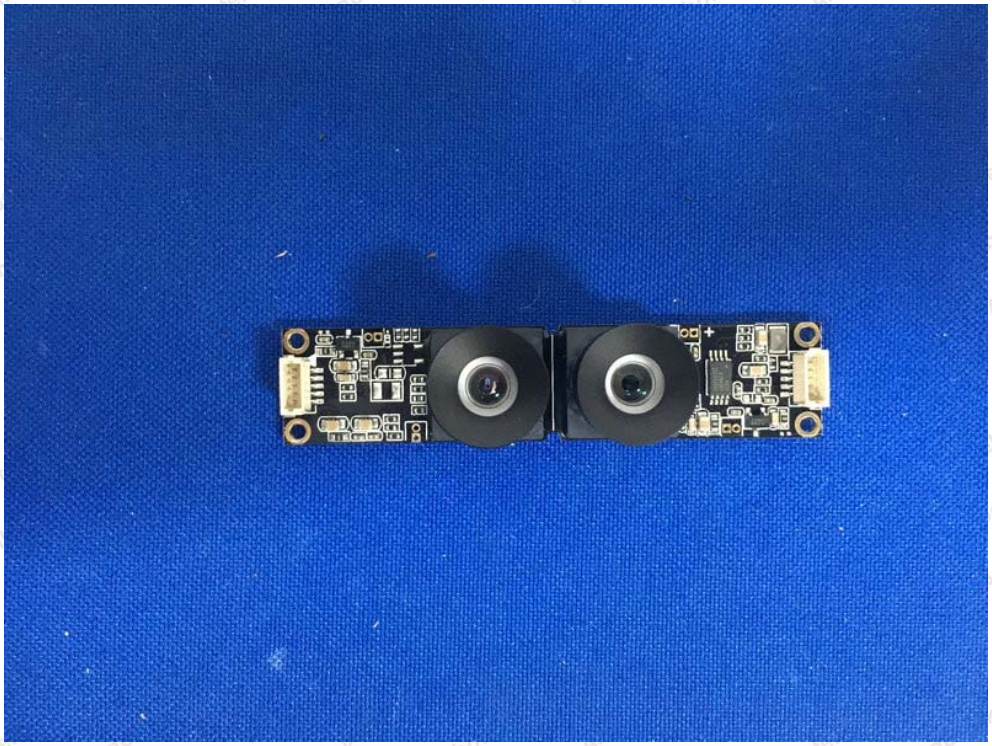
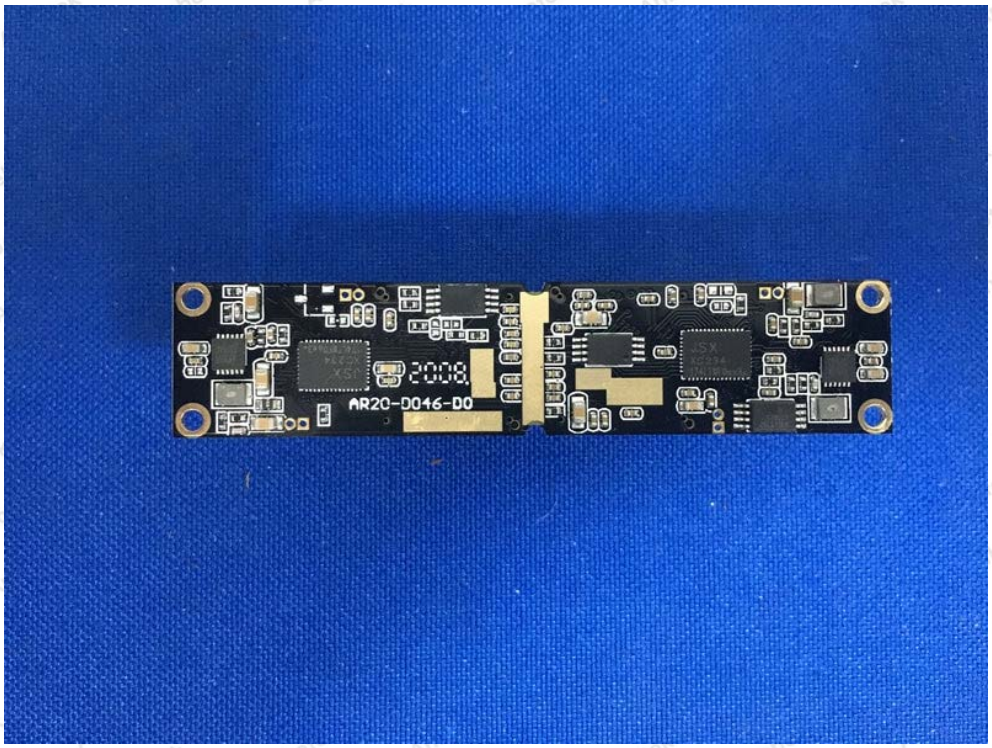
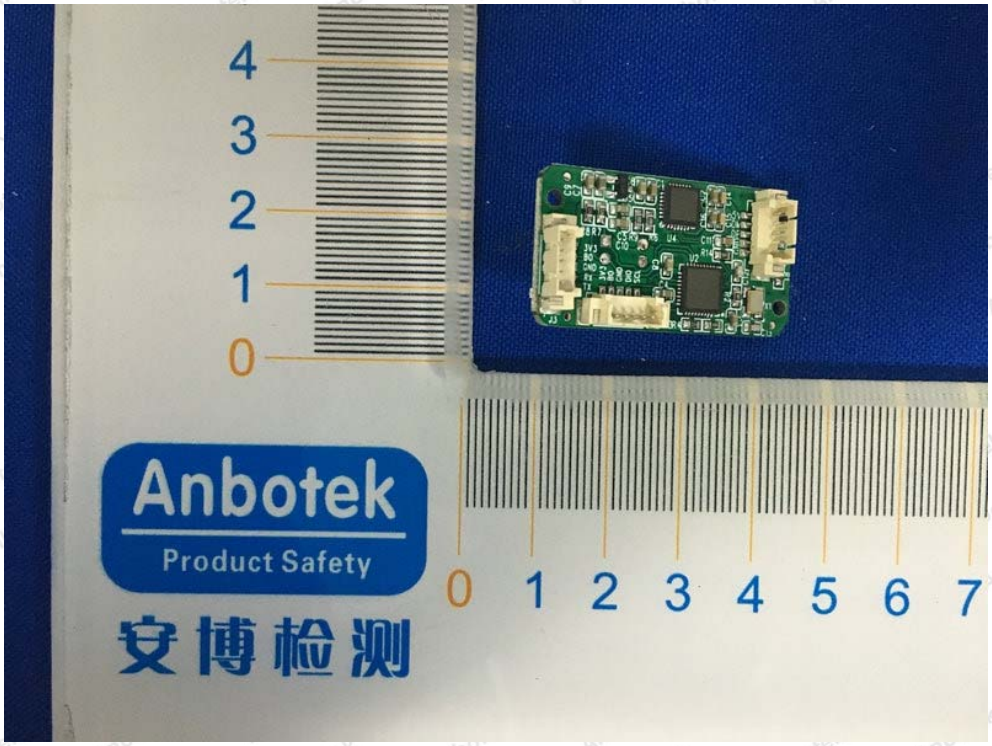
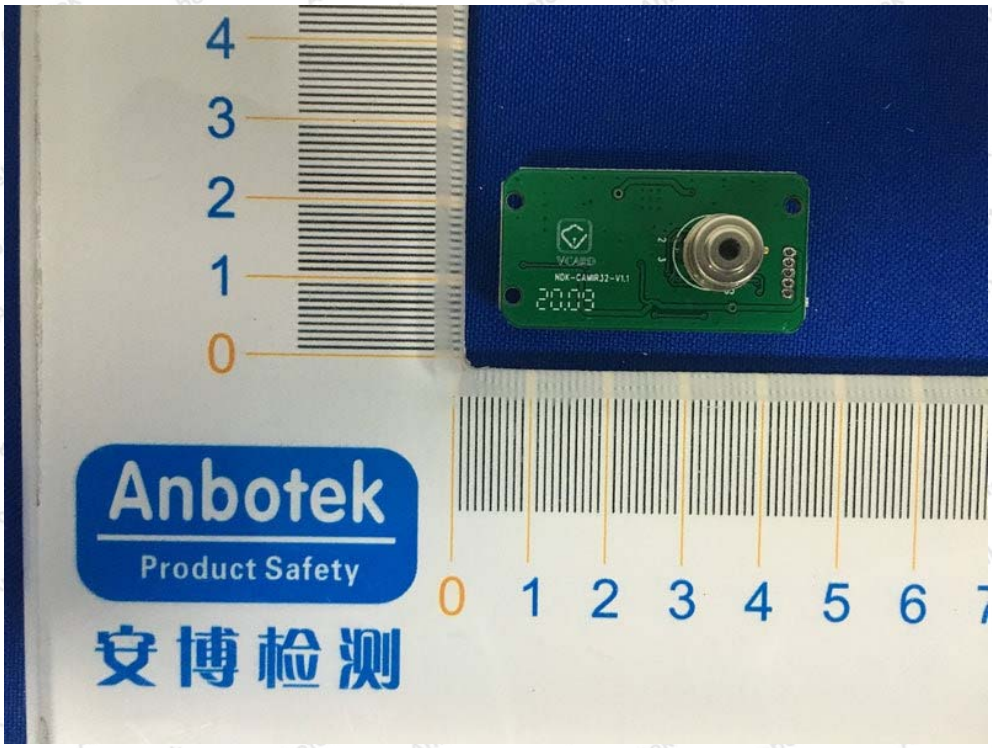
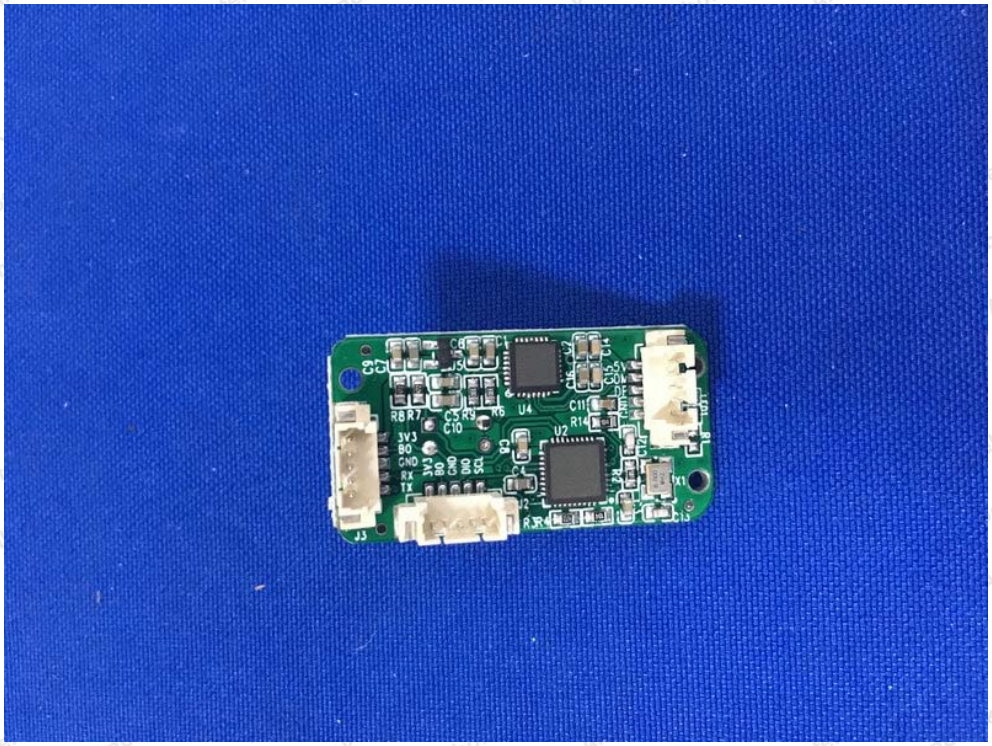
Product Safety
安博检测

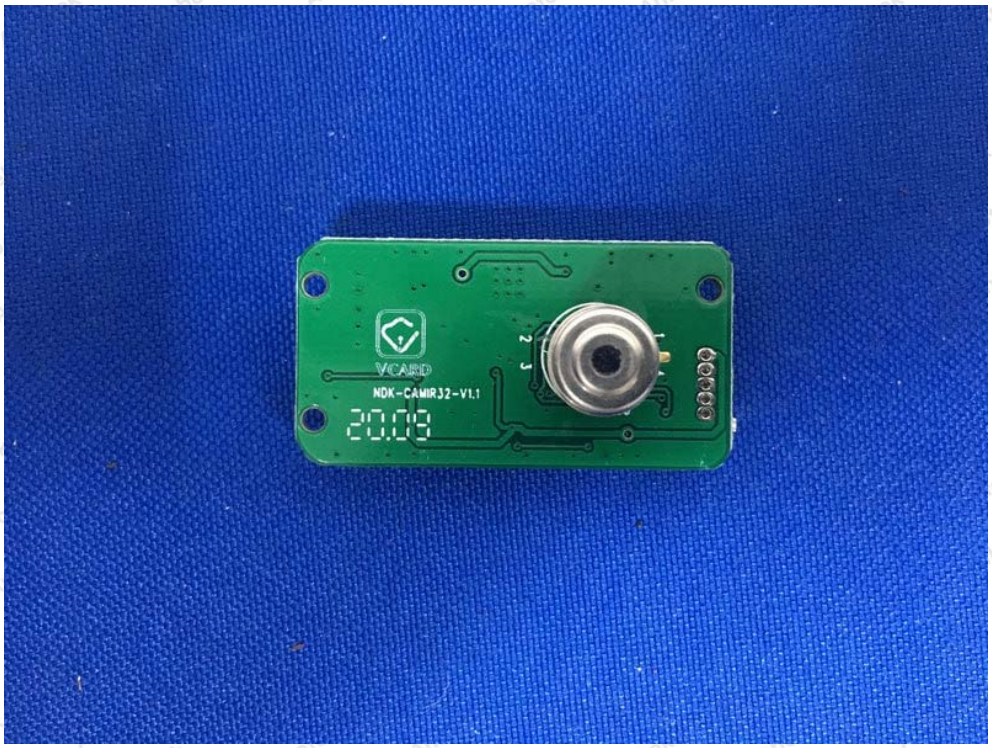


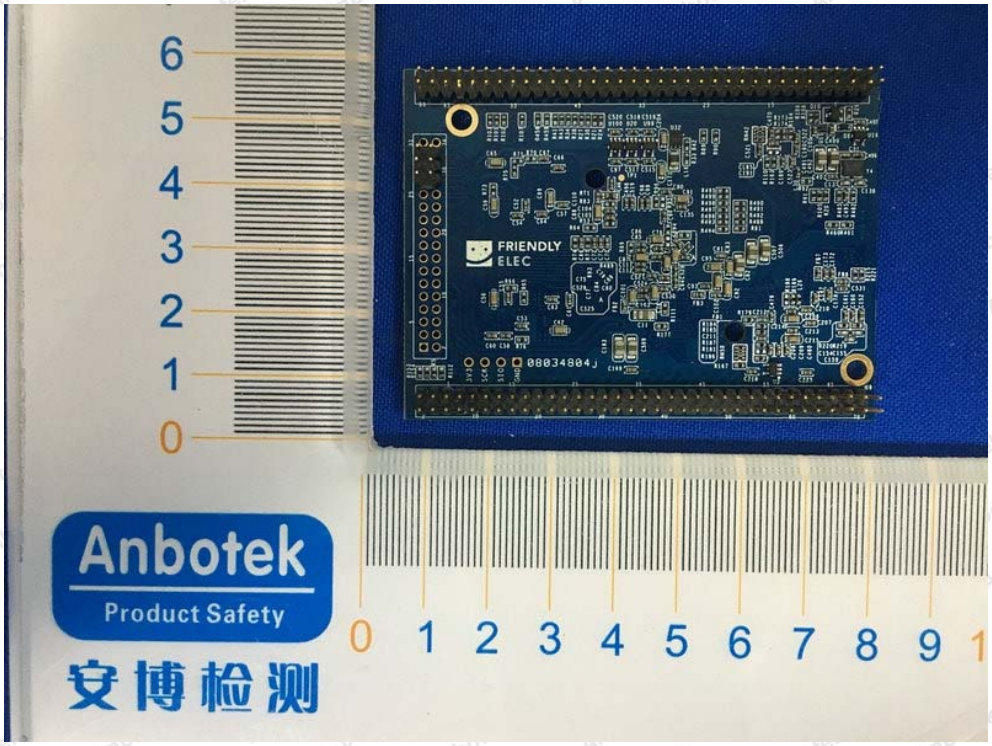

2008
AR20-D046-D0

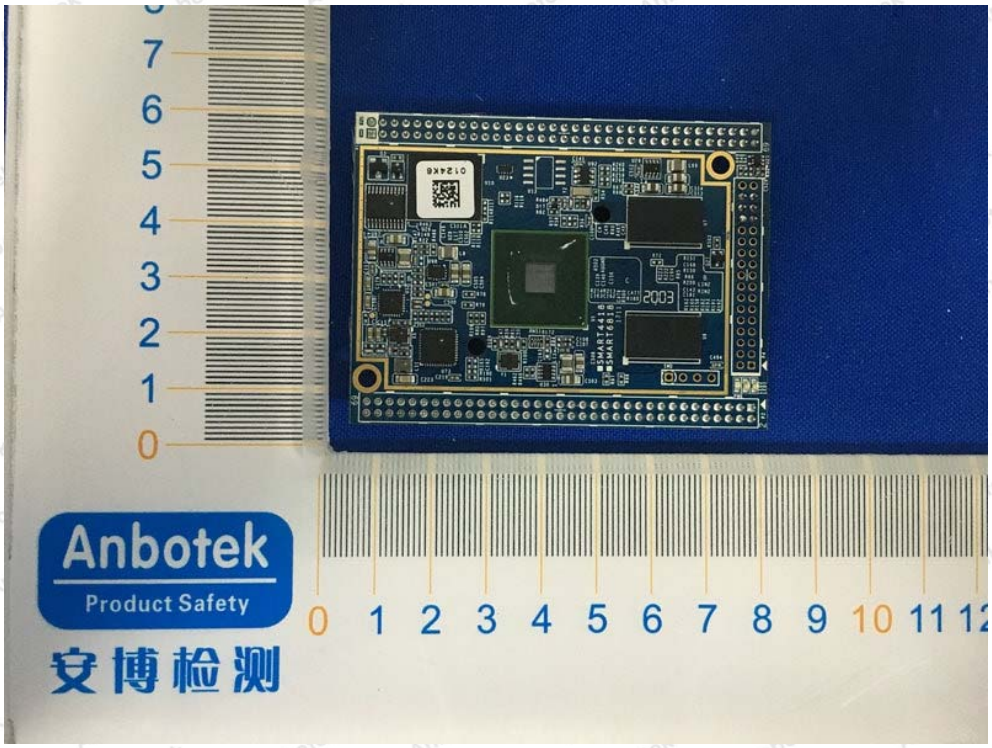

Anbotek
Product Safety
安博检测


Anbotek
Product Safety
安博检测




VCARD
NDK-CAMIR32-V1.1


FRIENDLY
ELEC
Anbotek
Product Safety
安博检测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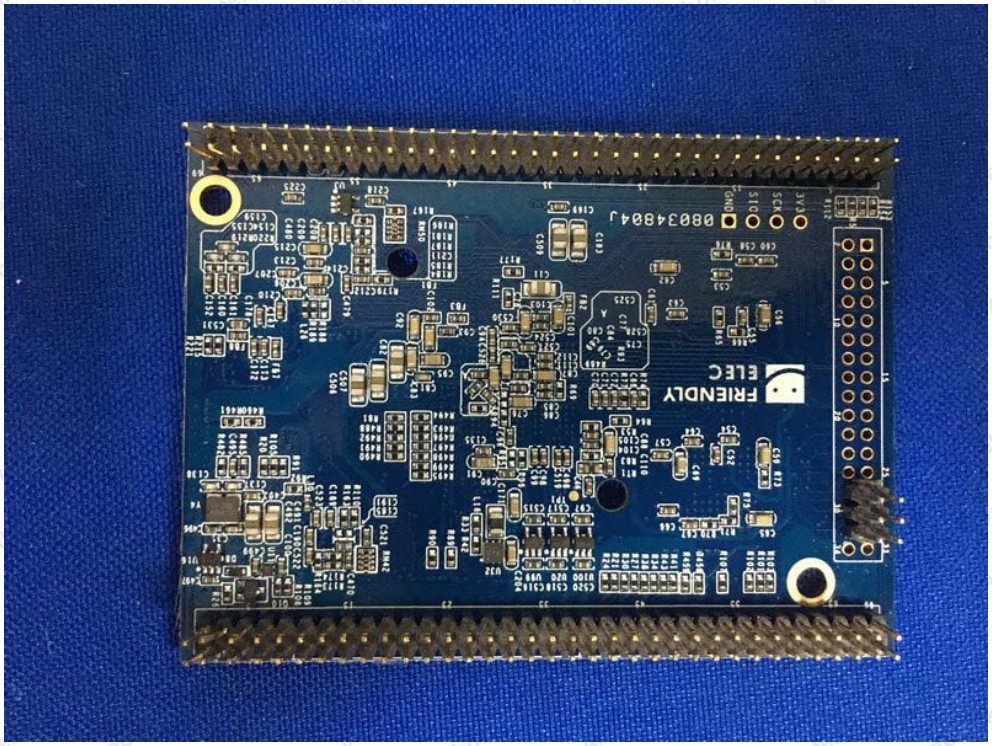
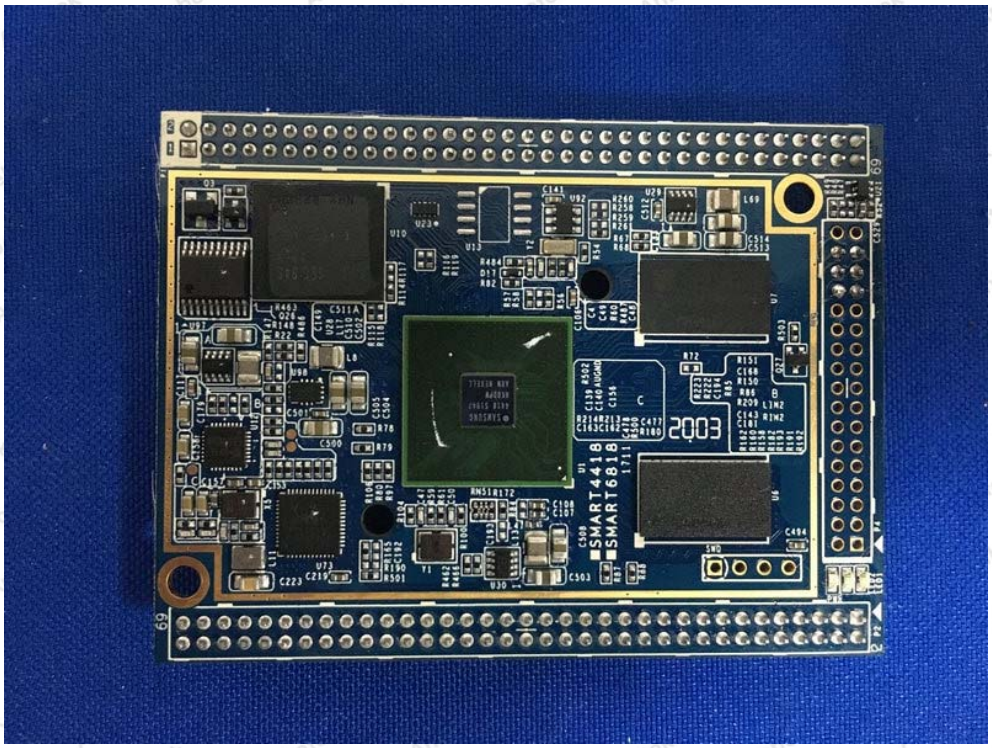
Product Safety
安博检测





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