

FCC TEST REPORT

Client Name : ACCO Brands, Inc

Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA
94404, USA

Product Name : Wireless dongle

Date : Jul. 15, 2020



Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : ACCO Brands, Inc
Manufacturer : ACCO Brands, Inc
Product Name : Wireless dongle
Model No. : M01502-D
Trade Mark : Kensington
Rating(s) : Input: DC 5V, 50mA

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249

Test Method(s) : ANSI C63.10: 2013

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

Apr. 20, 2020

Date of Test

Apr. 20~Jul. 09, 2020

Prepared by

Dolly mo

(Engineer / Dolly Mo)

Reviewer

Bibo Zhang

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	ACCO Brands, Inc
Address	:	1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA
Manufacturer	:	ACCO Brands, Inc
Address	:	1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA

1.2. Description of Device (EUT)

Product Name	:	Wireless dongle
Model No.	:	M01502-D
Trade Mark	:	Kensington
Test Power Supply	:	AC 120V, 60Hz for MacBook Air / DC 5V by USB Port
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	2403~2480MHz
	Number of Channel:	16 Channels
	Modulation Type:	GFSK
	Antenna Type:	PCB Antenna
	Antenna Gain(Peak):	2.34 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

MacBook Air	:	Model: A1466
	:	Input: 14.85V/3.05A
	:	CMIIT ID:C02HXB48DRVC
	:	Adapter:
	:	Input: AC 100-240V, 1A, 50-60Hz
	:	Output: 14.85V/3.05A

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.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH09
Mode 3	CH16

For Conducted Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH09
Mode 3	CH16

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH09
Mode 3	CH16

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

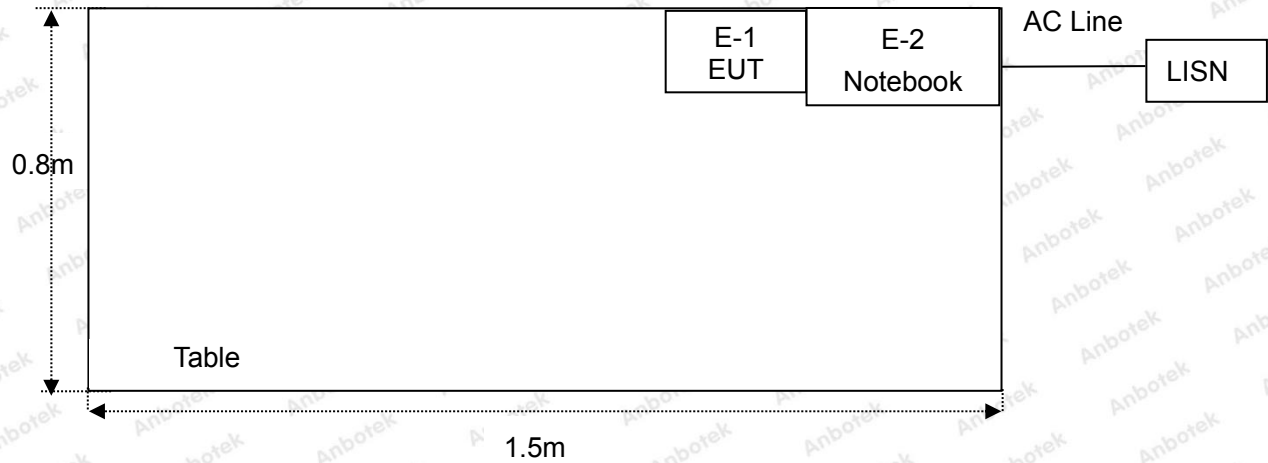
1.5. List of Channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2403	5	2422	9	2441	13	2463
2	2407	6	2426	10	2445	14	2466
3	2414	7	2436	11	2453	15	2473
4	2419	8	2439	12	2459	16	2480

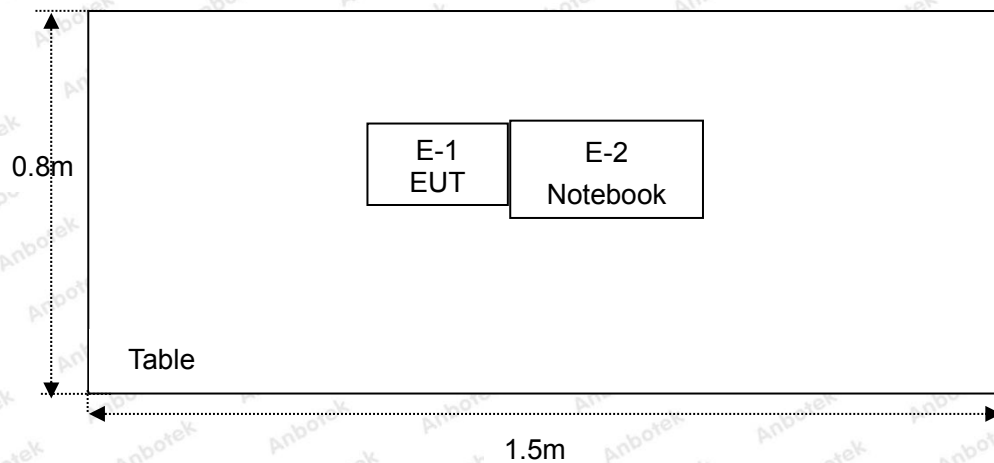


1.6. Description of Test Setup

CE



RE



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	BK1G18G30 D	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-K F	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-KHWS80 B	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 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, September 27, 2019.

ISED-Registration No.: 8058A

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, March 07, 2019.

Test Location

Shenzhen Anbotech 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	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



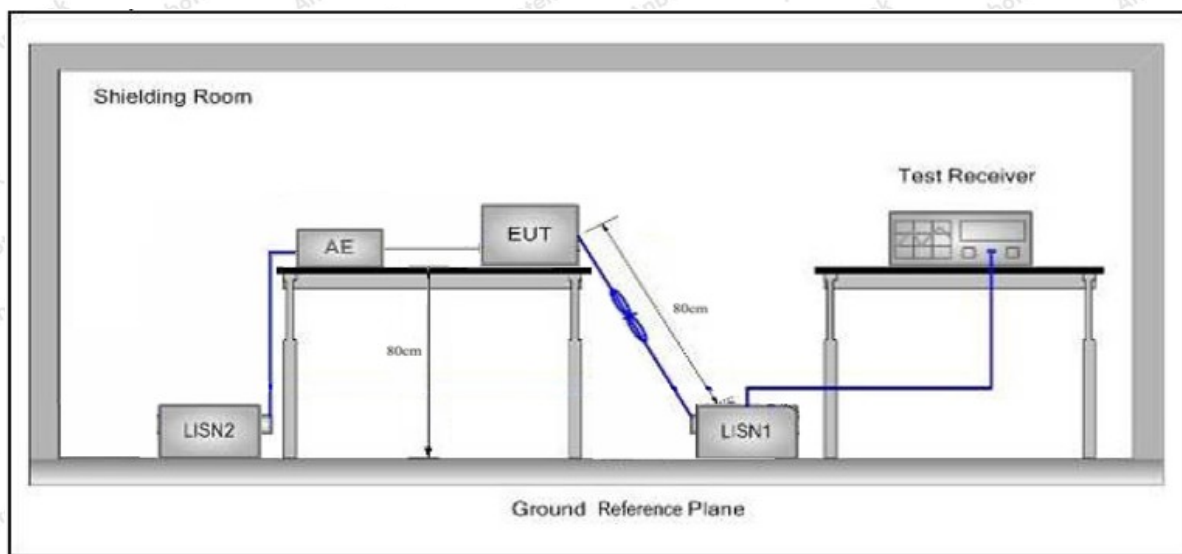
3. Conducted Emission Test

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

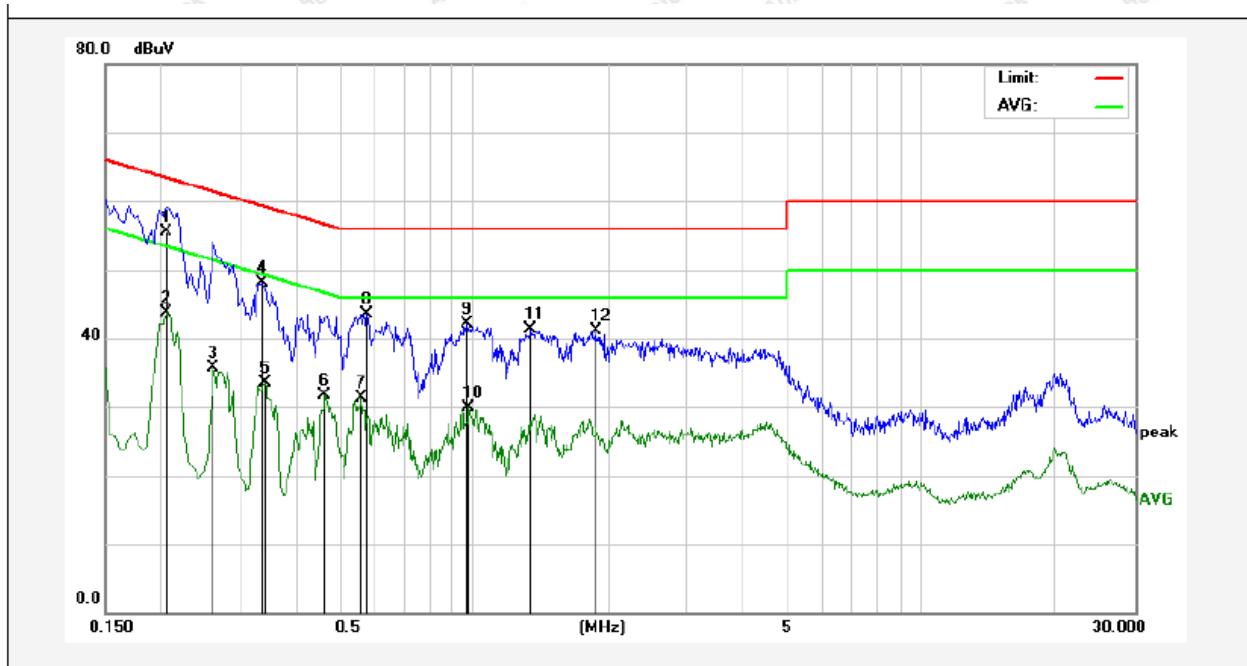
PASS

During the test, pre-scan all the modes, and found the Low channel which is the worst case, only the worst case is recorded in the report.



Conducted Emission Test Data

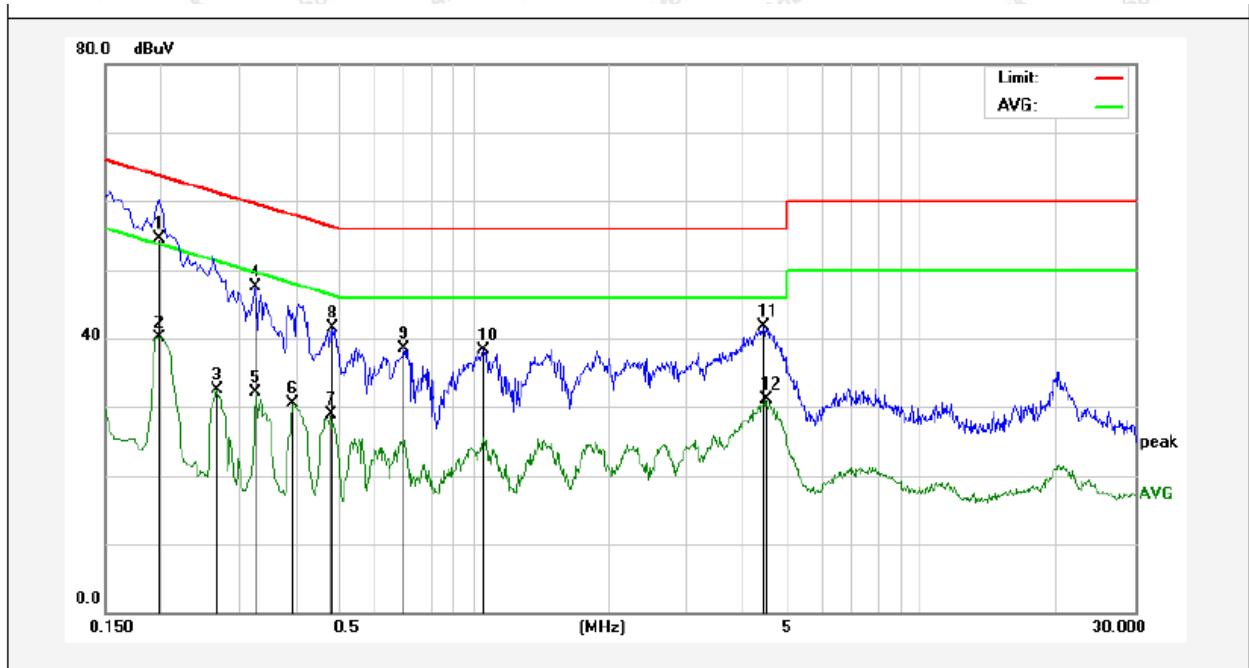
Test Site: 1# Shielded Room
Operating Condition: CH 01
Test Specification: AC 120V, 60Hz for MacBook Air
Comment: Live Line
Tem.: 24.6°C Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2060	35.62	19.90	55.52	63.36	-7.84	QP	
2	0.2060	23.79	19.90	43.69	53.36	-9.67	AVG	
3	0.2620	15.85	19.89	35.74	51.36	-15.62	AVG	
4	0.3379	28.27	19.91	48.18	59.25	-11.07	QP	
5	0.3420	13.68	19.91	33.59	49.15	-15.56	AVG	
6	0.4660	11.68	19.96	31.64	46.58	-14.94	AVG	
7	0.5620	11.36	20.00	31.36	46.00	-14.64	AVG	
8	0.5780	23.58	20.00	43.58	56.00	-12.42	QP	
9	0.9660	21.91	20.11	42.02	56.00	-13.98	QP	
10	0.9780	9.87	20.11	29.98	46.00	-16.02	AVG	
11	1.3420	21.22	20.13	41.35	56.00	-14.65	QP	
12	1.8740	20.96	20.14	41.10	56.00	-14.90	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: CH 01
Test Specification: AC 120V, 60Hz for MacBook Air
Comment: Neutral Line
Tem.: 24.6°C Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	34.70	19.90	54.60	63.69	-9.09	QP	
2	0.1980	20.30	19.90	40.20	53.69	-13.49	AVG	
3	0.2660	12.65	19.89	32.54	51.24	-18.70	AVG	
4	0.3260	27.63	19.90	47.53	59.55	-12.02	QP	
5	0.3260	12.19	19.90	32.09	49.55	-17.46	AVG	
6	0.3940	10.57	19.93	30.50	47.98	-17.48	AVG	
7	0.4780	8.85	19.97	28.82	46.37	-17.55	AVG	
8	0.4820	21.54	19.97	41.51	56.30	-14.79	QP	
9	0.6980	18.49	20.04	38.53	56.00	-17.47	QP	
10	1.0540	18.19	20.12	38.31	56.00	-17.69	QP	
11	4.4419	21.46	20.19	41.65	56.00	-14.35	QP	
12	4.4779	10.99	20.19	31.18	46.00	-14.82	AVG	



4. Radiated 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.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	2400~2483.5	50	-	114.0	Peak	3
	2400~2483.5	50	-	94.0	Average	3
	2400~2483.5	-	500	74.0	Peak	3
	2400~2483.5	-	500	54.0	Average	3

Remark:

(1) 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

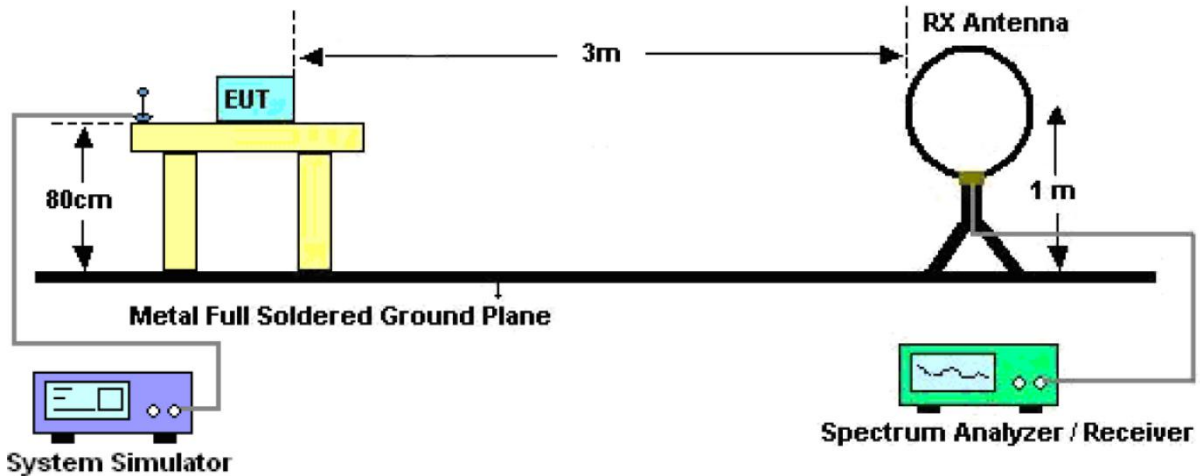


Figure 2. 30MHz to 1GHz

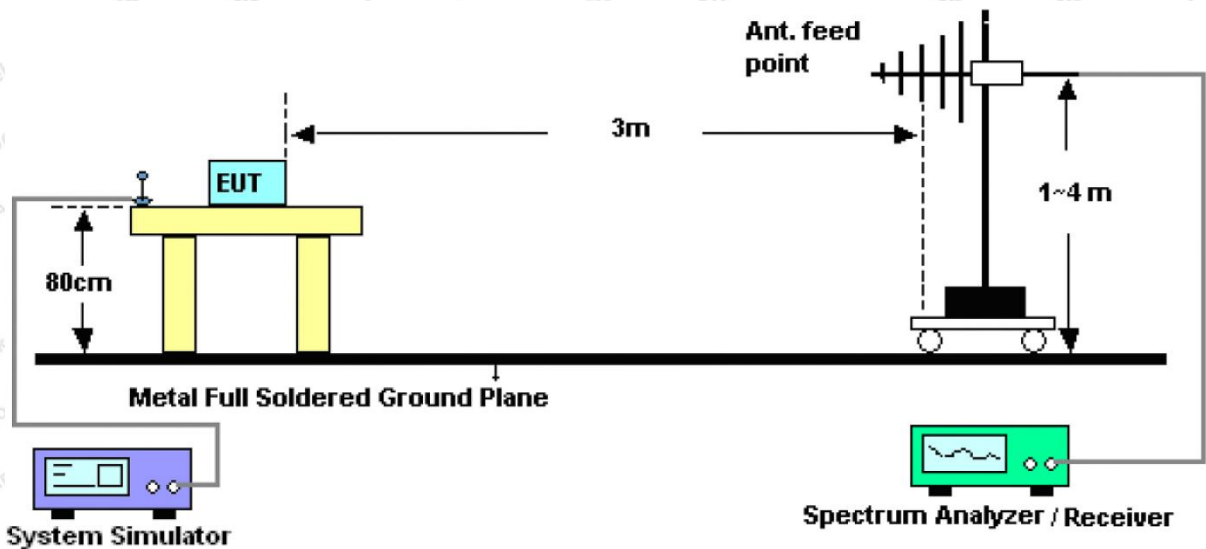
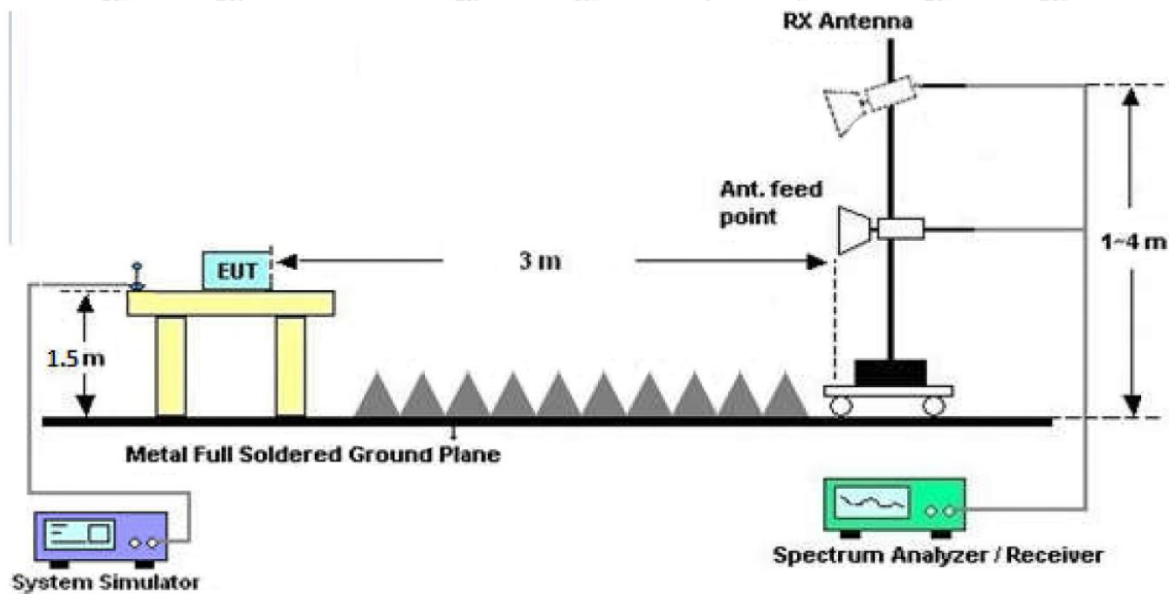


Figure 3. Above 1 GHz



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 the modes, and found the Middle channel which is the worst case, only the worst case is recorded in the report



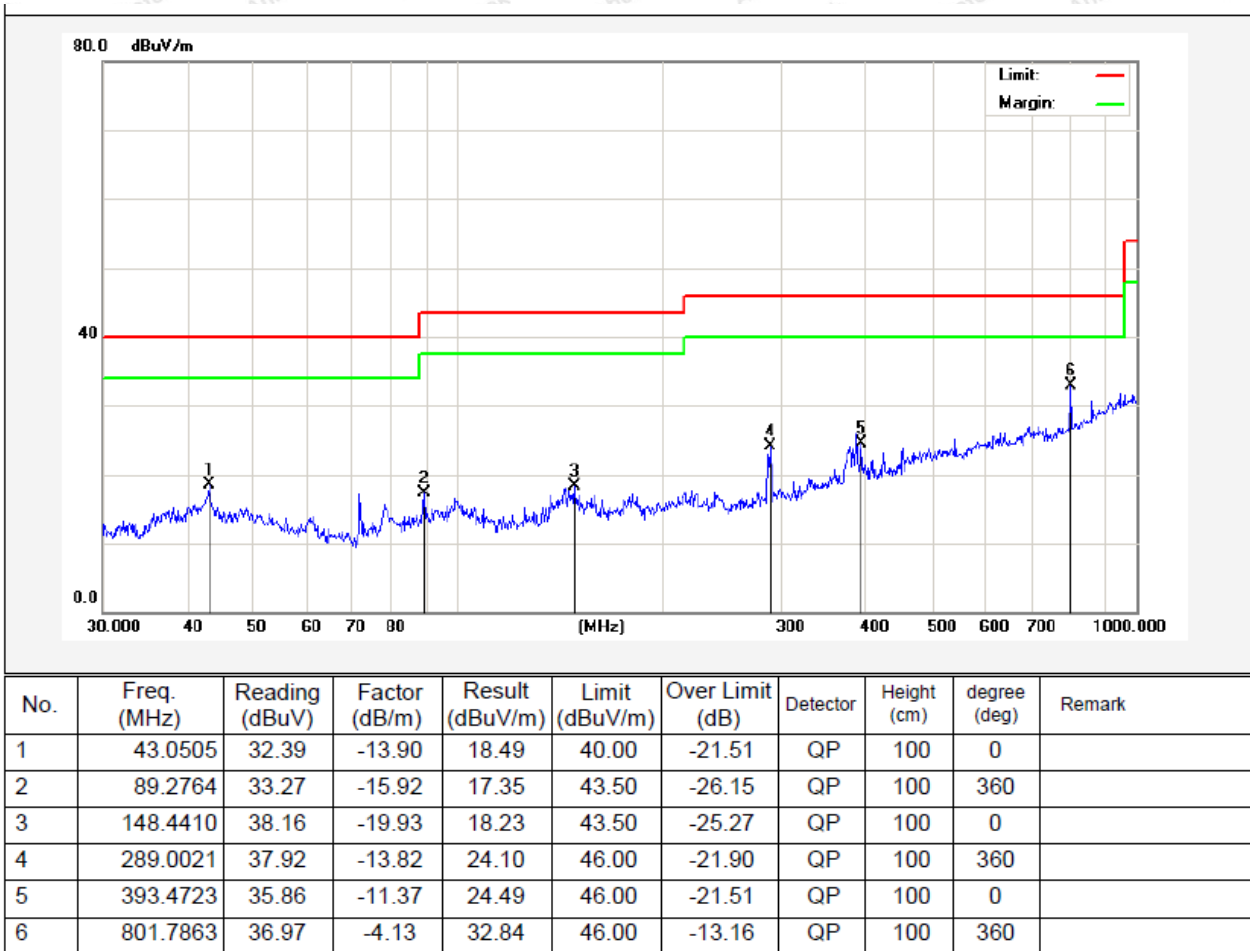
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FCC ID: GV3M01502-D

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Test Results (30~1000MHz)

Test Mode: Mode 2
Power Source: DC 5V by USB Port
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23.2°C/57%RH



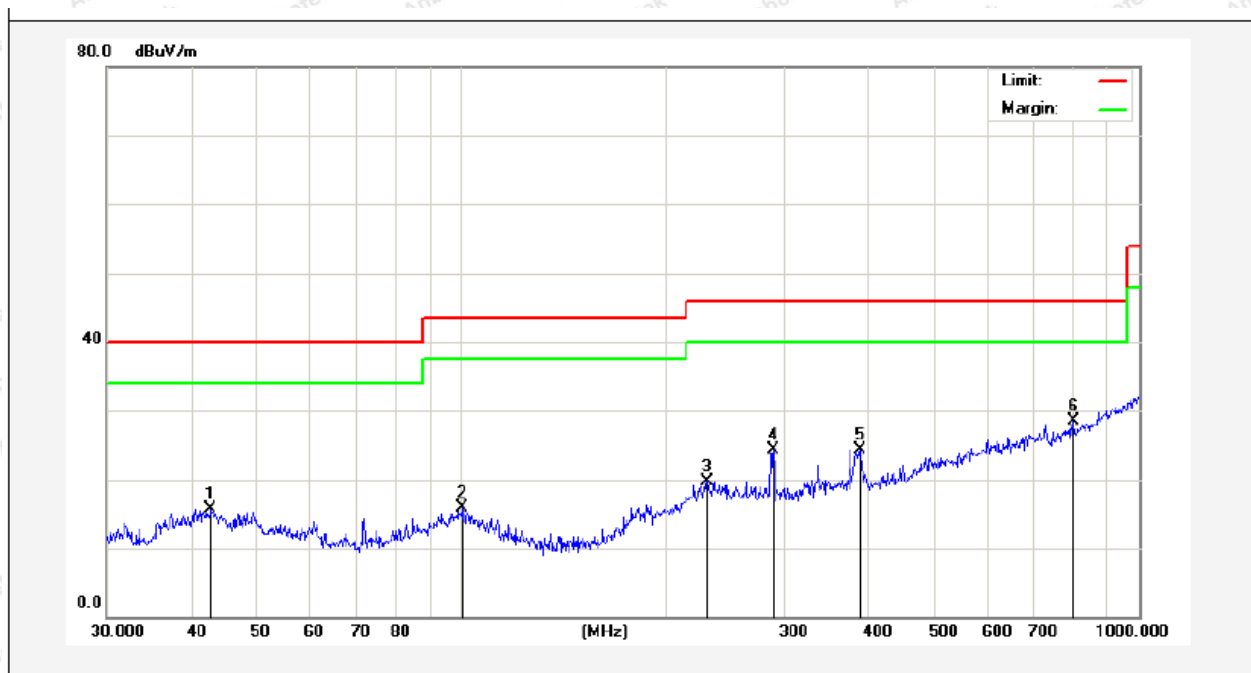
Report No.: 18220WC00040301

FCC ID: GV3M01502-D

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Test Results (30~1000MHz)

Test Mode: Mode 2
Power Source: DC 5V by USB Port
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23.2°C/57%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.7496	30.30	-14.61	15.69	40.00	-24.31	QP	100	360	
2	100.5806	35.40	-19.47	15.93	43.50	-27.57	QP	100	0	
3	230.9068	39.03	-19.23	19.80	46.00	-26.20	QP	100	360	
4	289.0021	39.69	-15.30	24.39	46.00	-21.61	QP	100	0	
5	387.9920	37.33	-12.98	24.35	46.00	-21.65	QP	100	360	
6	798.9797	32.76	-4.17	28.59	46.00	-17.41	QP	100	0	



Test Results (1GHz-25GHz)

Test Mode: CH01 (Low channel)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2403.0000	94.71	31.12	2.18	35.33	92.68	114.00	-21.32	V	Peak
2403.0000	85.12	31.12	2.18	35.33	83.09	94.00	-10.91	V	AVG
4806.0000	47.79	34.01	2.58	34.65	49.73	74.00	-24.27	V	Peak
4806.0000	40.20	34.01	2.58	34.65	42.14	54.00	-11.86	V	AVG
7209.0000	45.76	36.16	2.97	35.07	49.82	74.00	-24.18	V	Peak
7209.0000	37.97	36.16	2.97	35.07	42.03	54.00	-11.97	V	AVG
9612.0000	*								
12015.0000	*								
14418.0000	*								
16821.0000	*								
2403.0000	95.45	31.12	2.18	35.33	93.42	114.00	-20.58	H	Peak
2403.0000	84.87	31.12	2.18	35.33	82.84	94.00	-11.16	H	AVG
4806.0000	50.55	34.01	2.58	34.65	52.49	74.00	-21.51	H	Peak
4806.0000	40.88	34.01	2.58	34.65	42.82	54.00	-11.18	H	AVG
7209.0000	47.46	36.16	2.97	35.07	51.52	74.00	-22.48	H	Peak
7209.0000	35.29	36.16	2.97	35.07	39.35	54.00	-14.65	H	AVG
9612.0000	*								
12015.0000	*								
14418.0000	*								
16821.0000	*								

Note:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Mode: CH09 (Middle channel)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2441.0000	94.02	31.12	2.20	34.51	92.83	114.00	-21.17	V	Peak
2441.0000	84.08	31.22	2.20	34.51	82.99	94.00	-11.01	V	AVG
4882.0000	49.74	34.98	2.49	34.14	53.07	74.00	-20.93	V	Peak
4882.0000	40.99	34.98	2.49	34.14	44.32	54.00	-9.68	V	AVG
7323.0000	47.27	36.01	3.01	34.56	51.73	74.00	-22.27	V	Peak
7323.0000	38.01	36.01	3.01	34.56	42.47	54.00	-11.53	V	AVG
9764.0000	*								
12205.0000	*								
14646.0000	*								
17087.0000	*								
2441.0000	93.27	31.12	2.20	34.51	92.08	114.00	-21.92	H	Peak
2441.0000	83.78	31.12	2.20	34.51	82.59	94.00	-11.41	H	AVG
4882.0000	50.35	34.98	2.49	34.14	53.68	74.00	-20.32	H	Peak
4882.0000	41.32	34.98	2.49	34.14	44.65	54.00	-9.35	H	AVG
7323.0000	46.97	36.01	3.01	34.56	51.43	74.00	-22.57	H	Peak
7323.0000	36.05	36.01	3.01	34.56	40.51	54.00	-13.49	H	AVG
9764.0000	*								
12205.0000	*								
14646.0000	*								
17087.0000	*								

Note:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Mode: CH16(High channel)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2480.0000	94.64	31.65	2.23	36.07	92.45	114.00	-21.55	V	Peak
2480.0000	84.33	31.65	2.23	36.07	82.14	94.00	-11.86	V	AVG
4960.0000	48.85	35.06	2.60	34.93	51.58	74.00	-22.42	V	Peak
4960.0000	38.05	35.06	2.60	34.93	40.78	54.00	-13.22	V	AVG
7440.0000	46.91	36.19	3.12	35.11	51.11	74.00	-22.89	V	Peak
7440.0000	37.65	36.19	3.12	35.11	41.85	54.00	-12.15	V	AVG
9920.0000	*								
12400.0000	*								
14880.0000	*								
17360.0000	*								
2480.0000	95.53	31.65	2.23	36.07	93.34	114.00	-20.66	H	Peak
2480.0000	85.18	31.65	2.23	36.07	82.99	94.00	-11.01	H	AVG
4960.0000	48.53	35.06	2.60	34.93	51.26	74.00	-22.74	H	Peak
4960.0000	41.67	35.06	2.60	34.93	44.40	54.00	-9.60	H	AVG
7440.0000	46.98	36.19	3.12	35.11	51.18	74.00	-22.82	H	Peak
7440.0000	35.39	36.19	3.12	35.11	39.59	54.00	-14.41	H	AVG
9920.0000	*								
12400.0000	*								
14880.0000	*								
17360.0000	*								

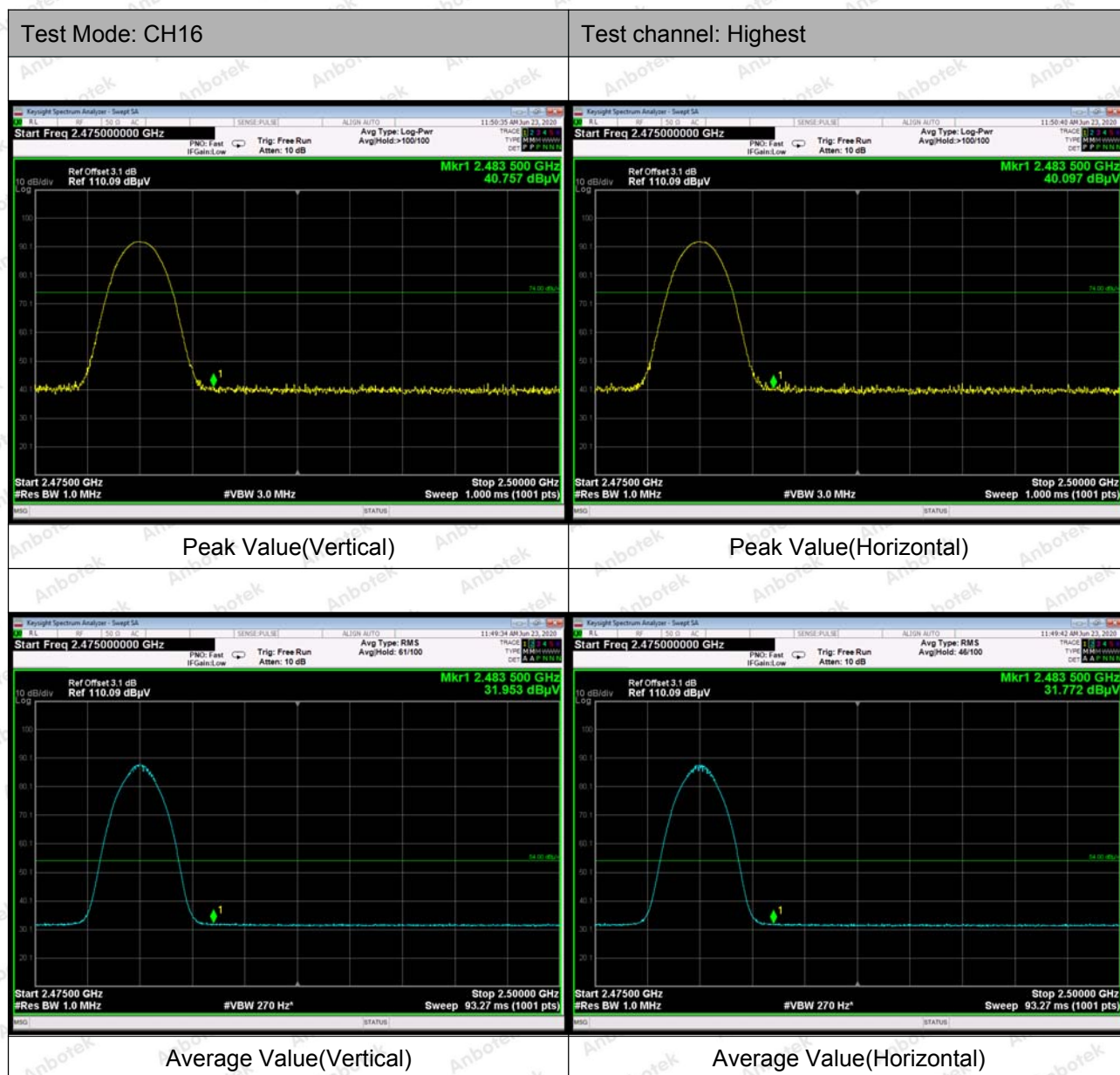
Note:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:

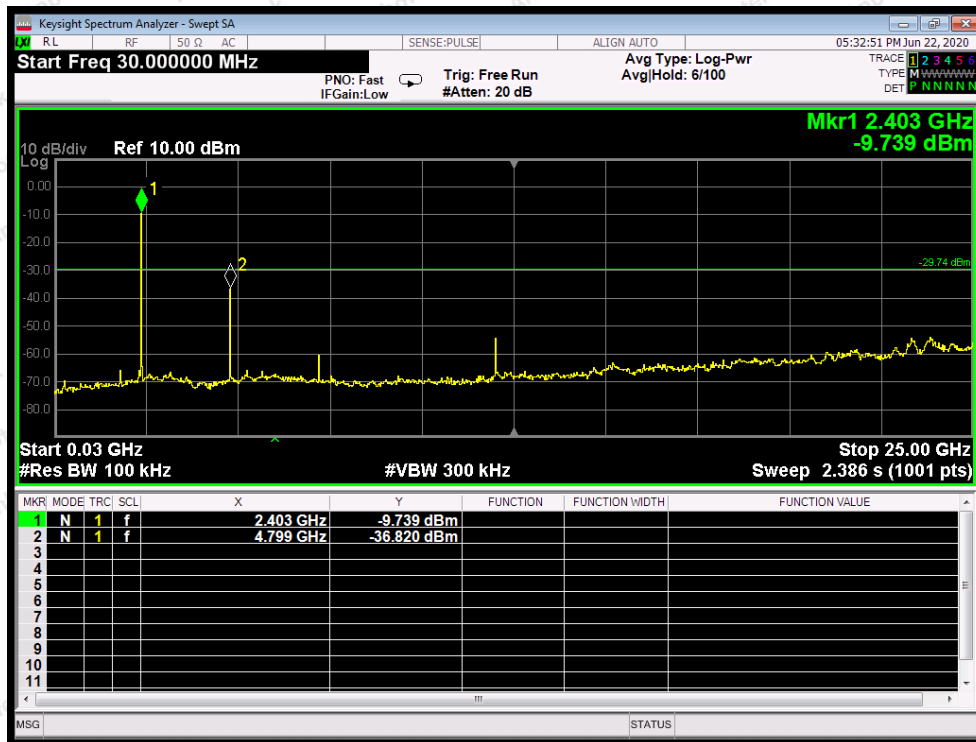




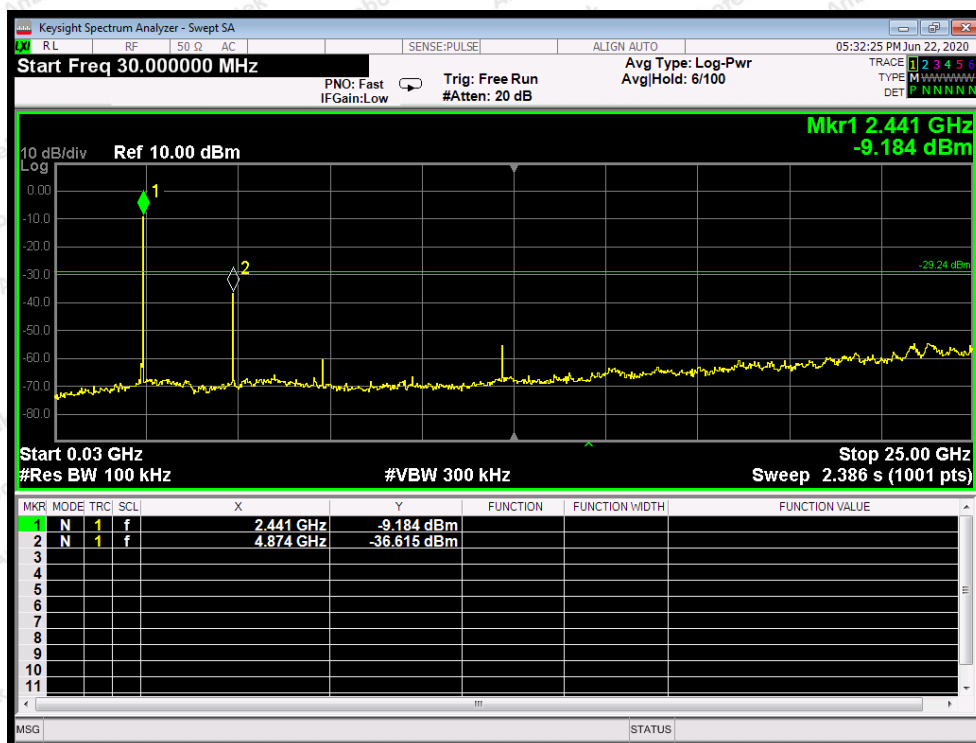
Remark:

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

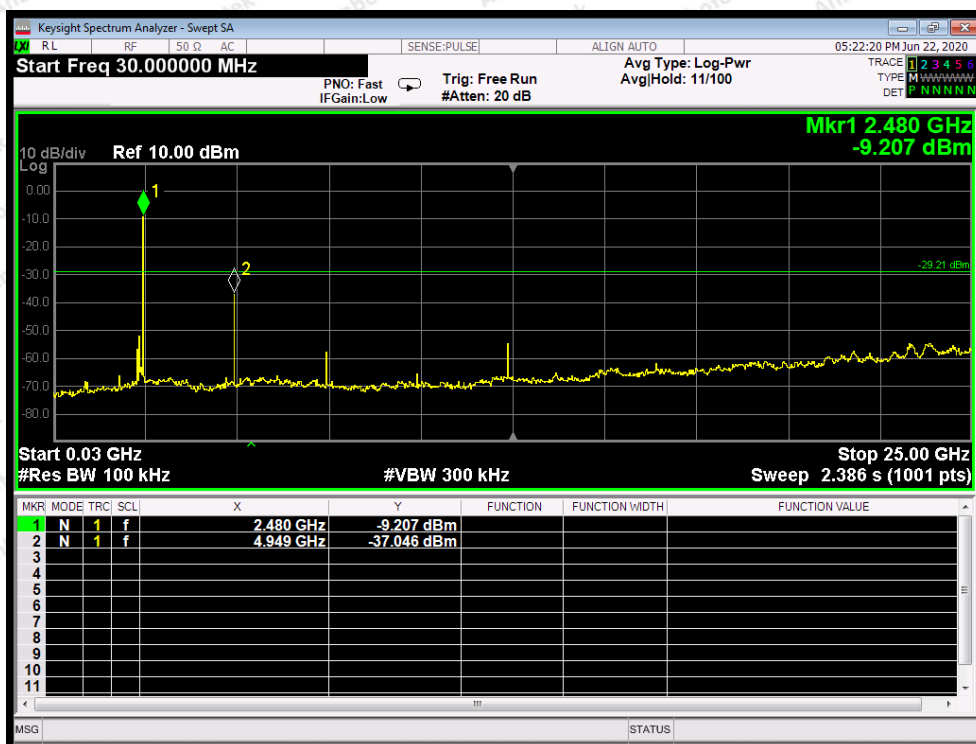




CH: Low



CH: Middle



CH: High

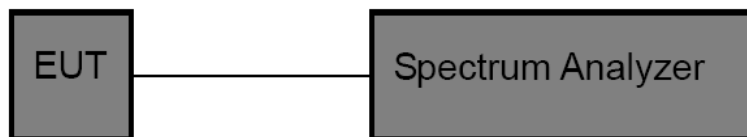


5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.249
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5.2. Test Setup



5.3. 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 = 30kHz, VBW $\geq$ 3*RBW =100kHz,
Detector= Average
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

5.4. Test Data

Test Item : 20dB Bandwidth

Test Voltage : AC 120V, 60Hz for MacBook Air

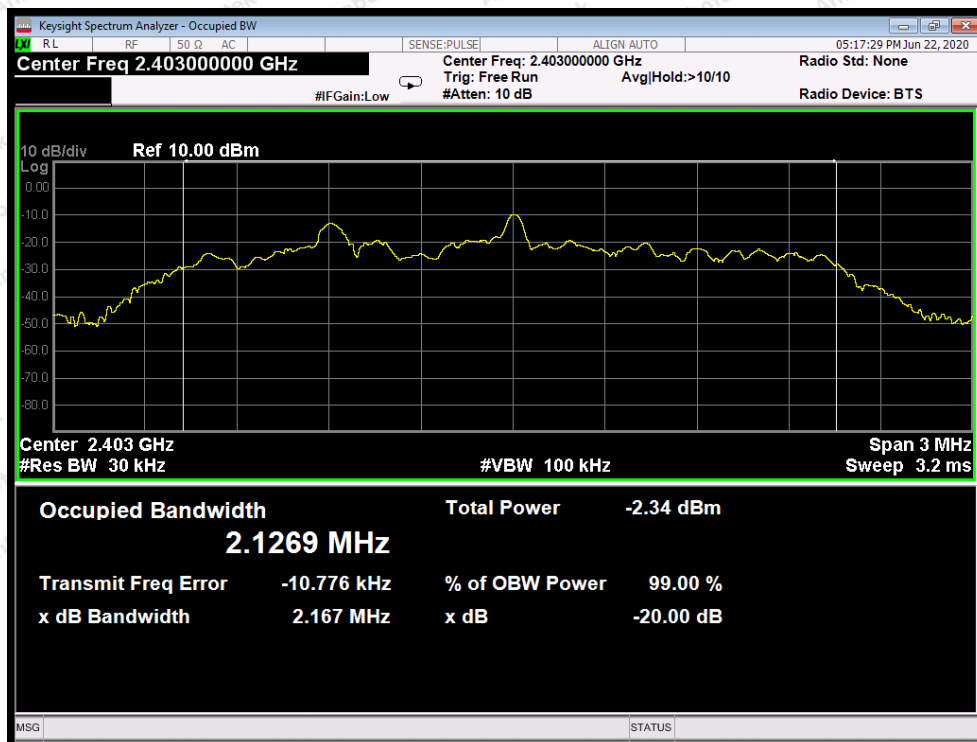
Test Result : PASS

Test Mode : Mode 1

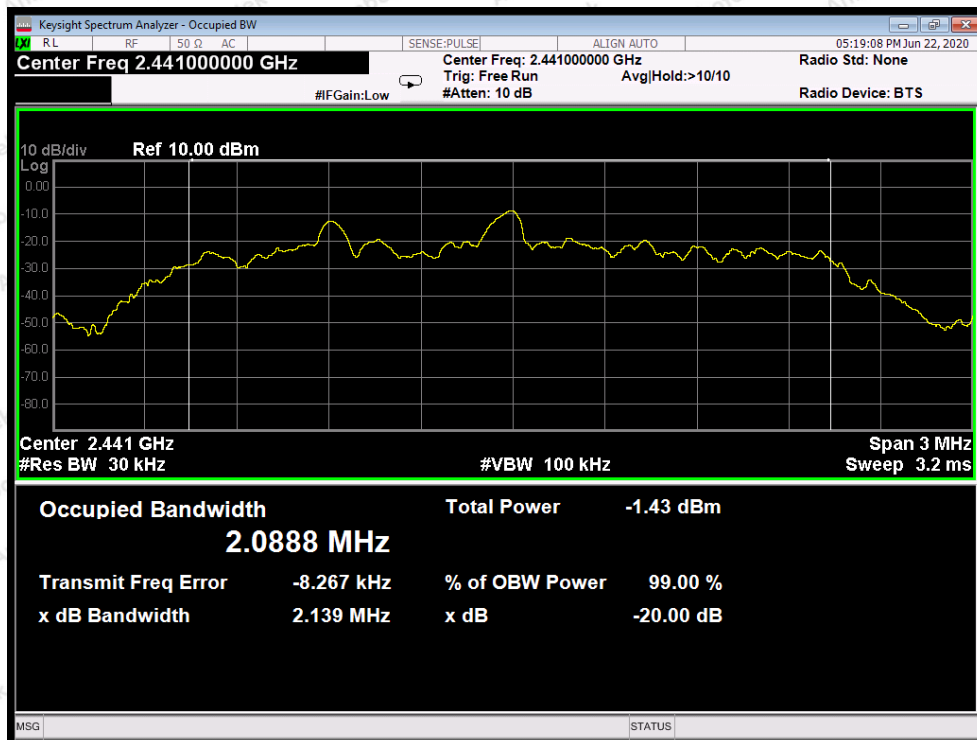
Temperature : 22.4℃

Humidity : 55%RH

Frequency (MHz)	Bandwidth (kHz)	Result
2403	2167	PASS
2441	2139	PASS
2480	2143	PASS

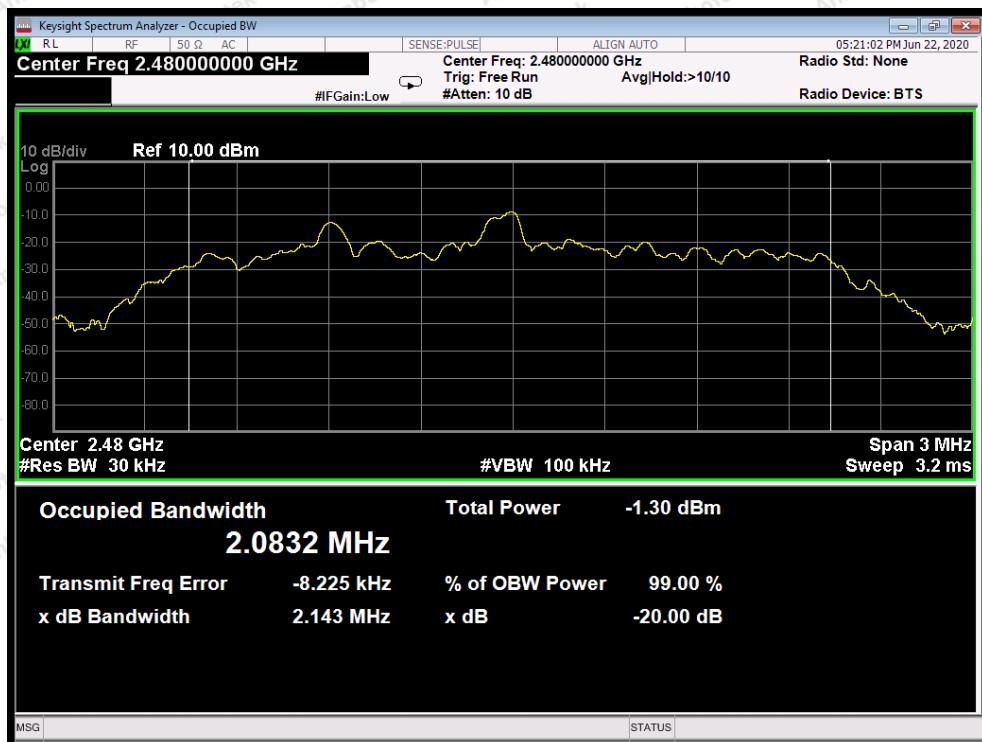


Test Mode: Low



Test Mode: Middle





Test Mode: High



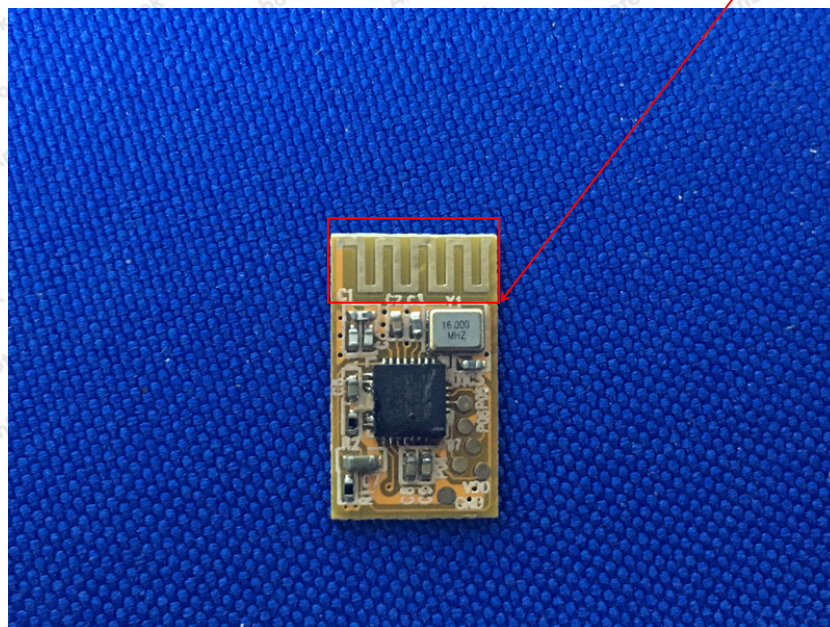
6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
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.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 2.34 dBi. It complies with the standard requirement.



Antenna

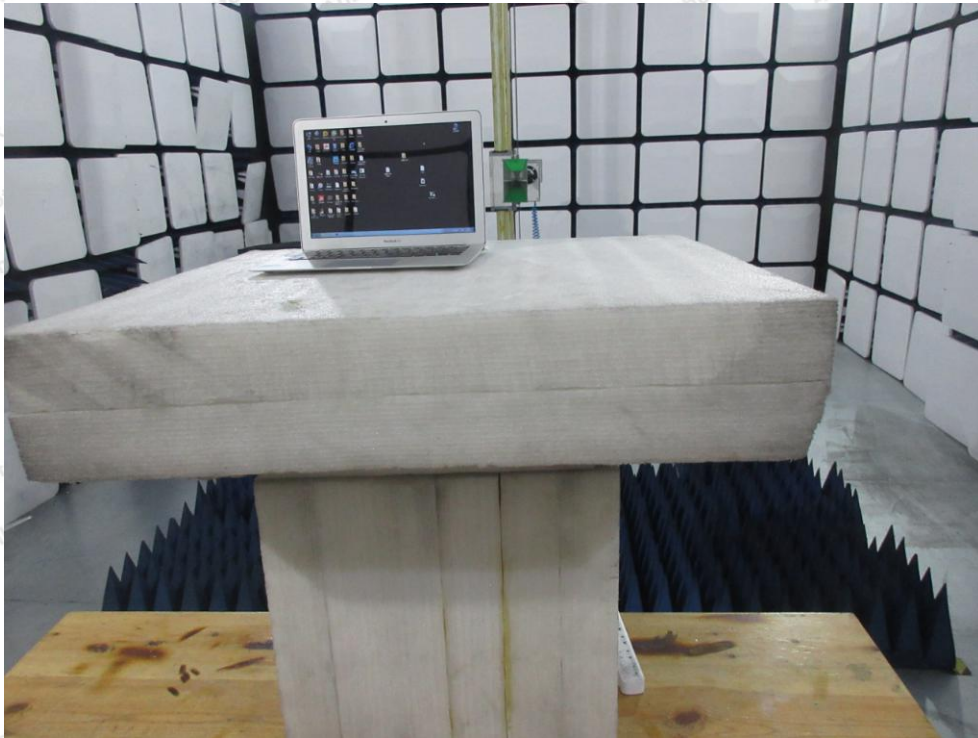
APPENDIX I -- TEST SETUP PHOTOGRAPH

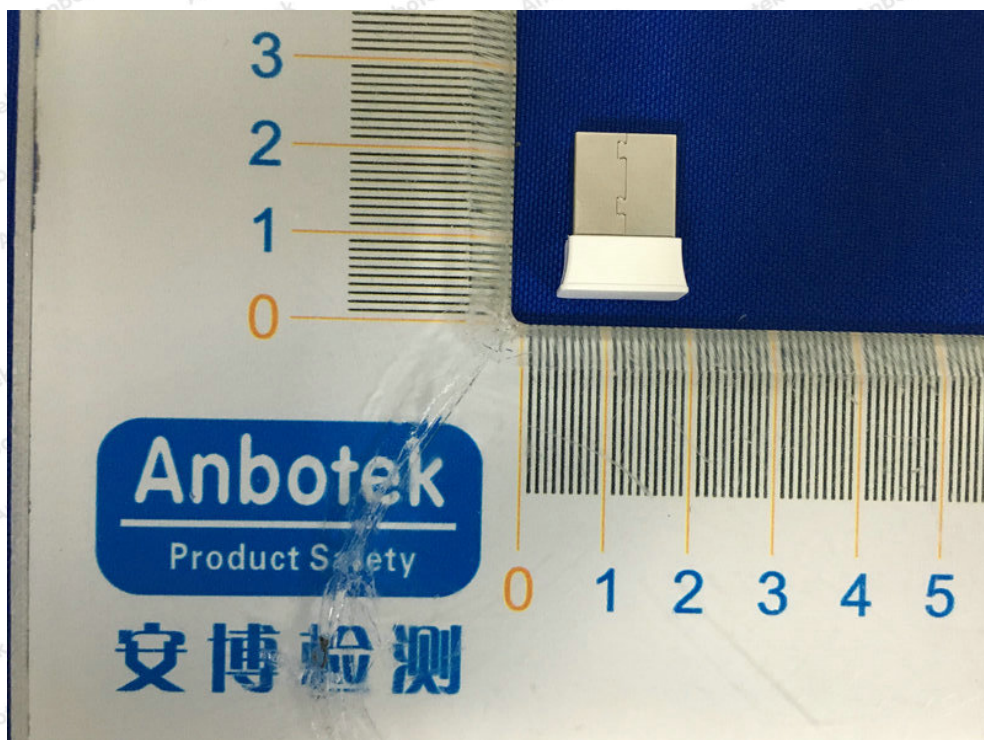
Photo of Conducted Emission Test

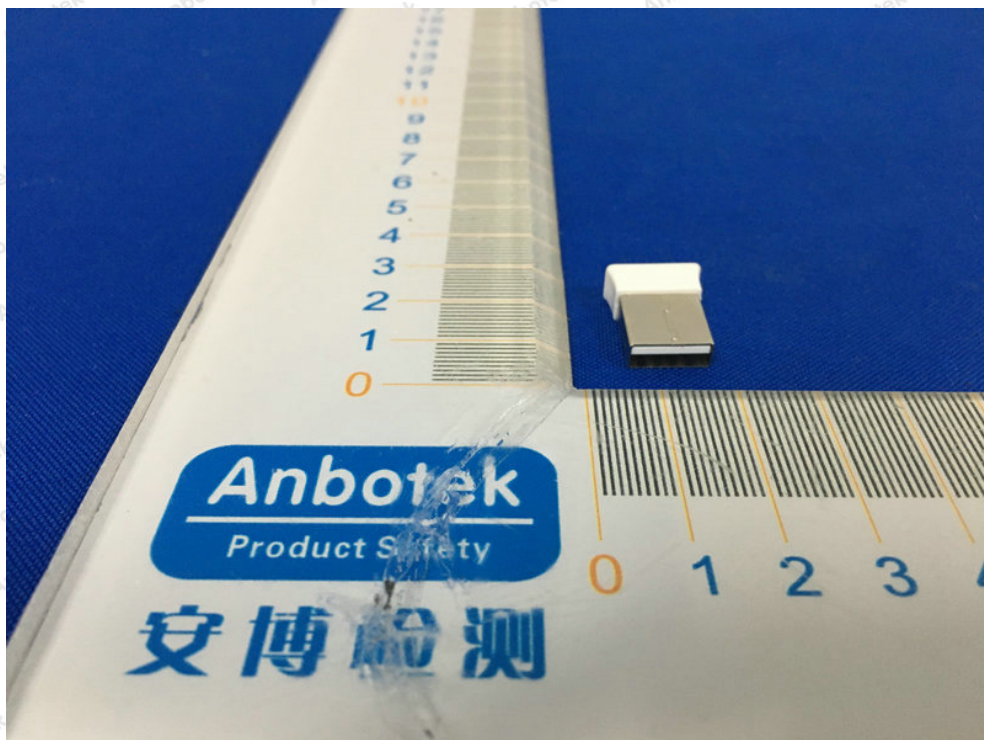
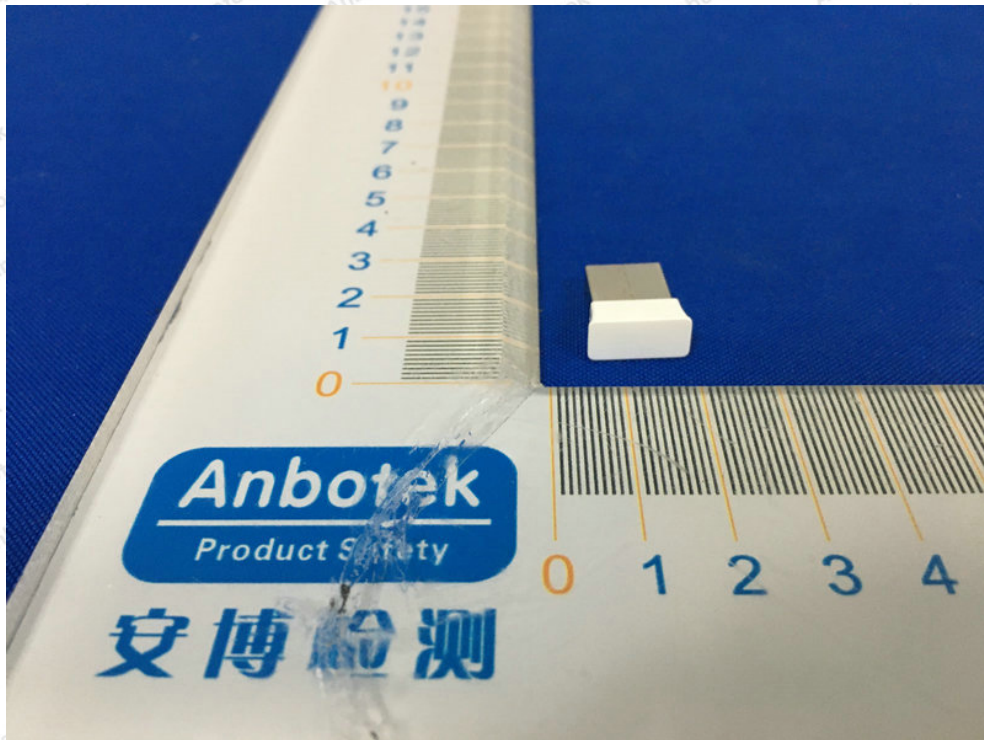


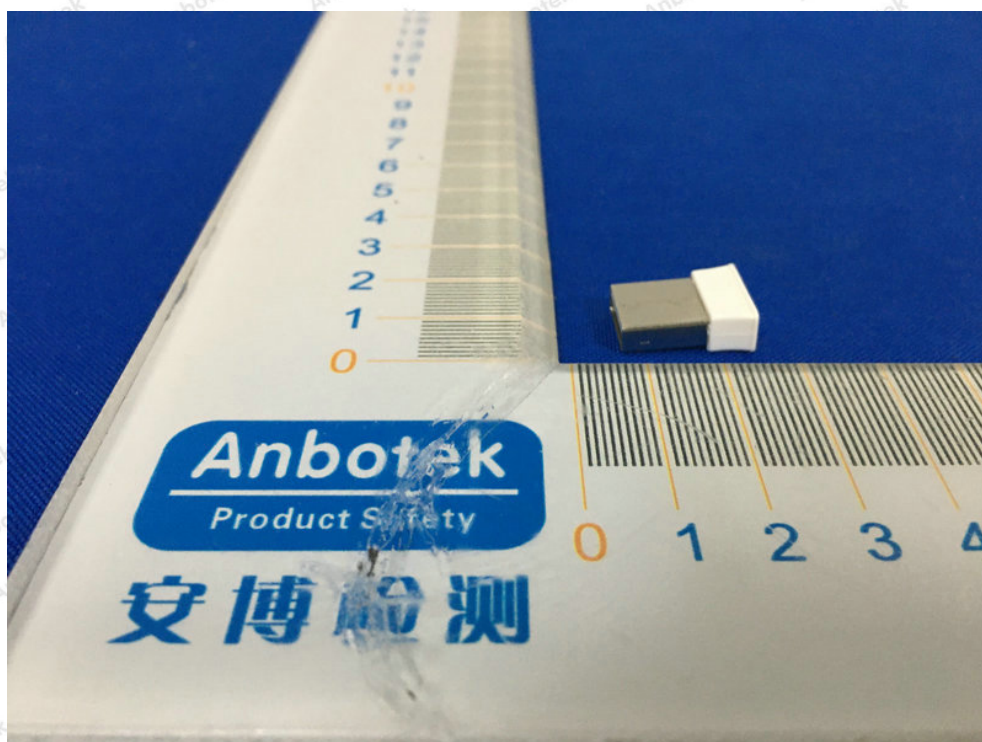
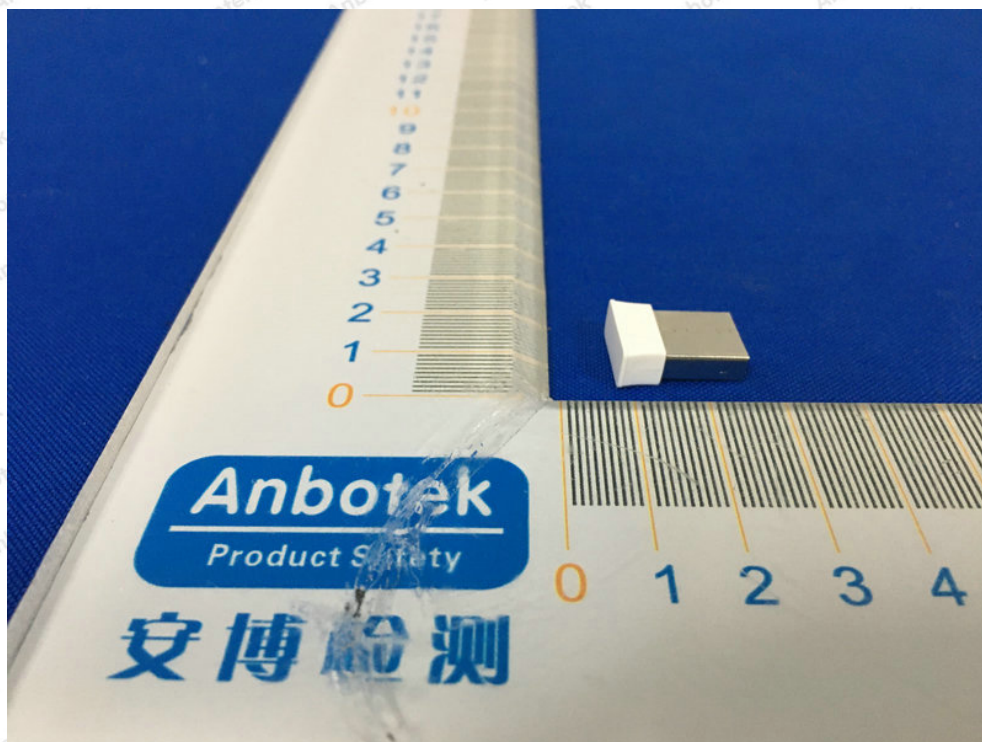
Photo of Radiation Emission Test

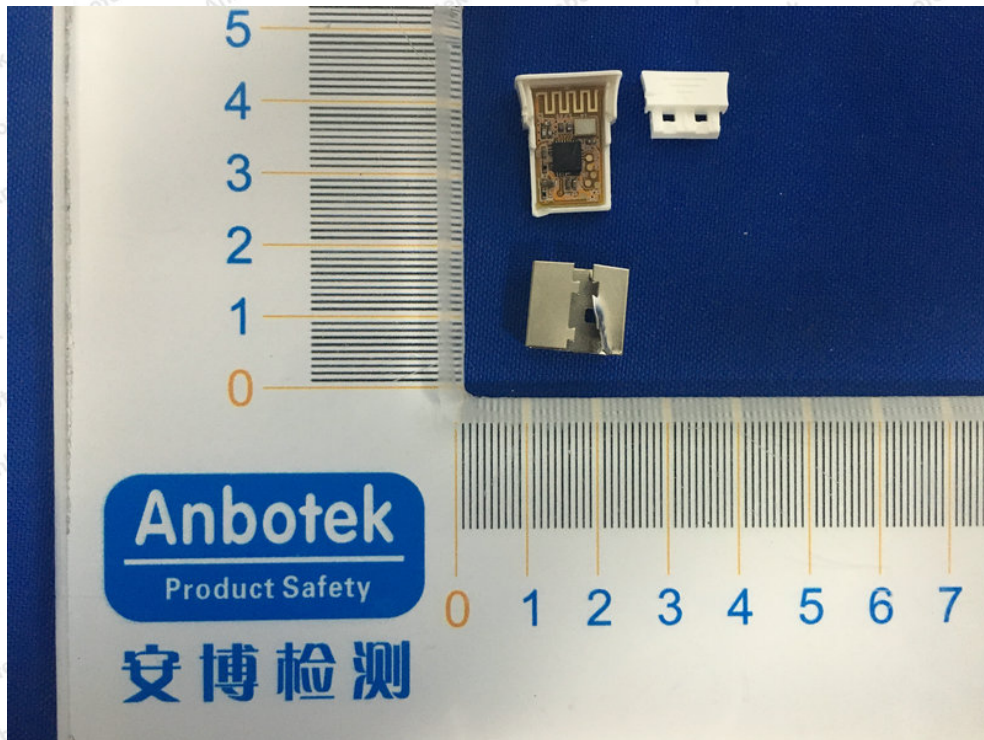


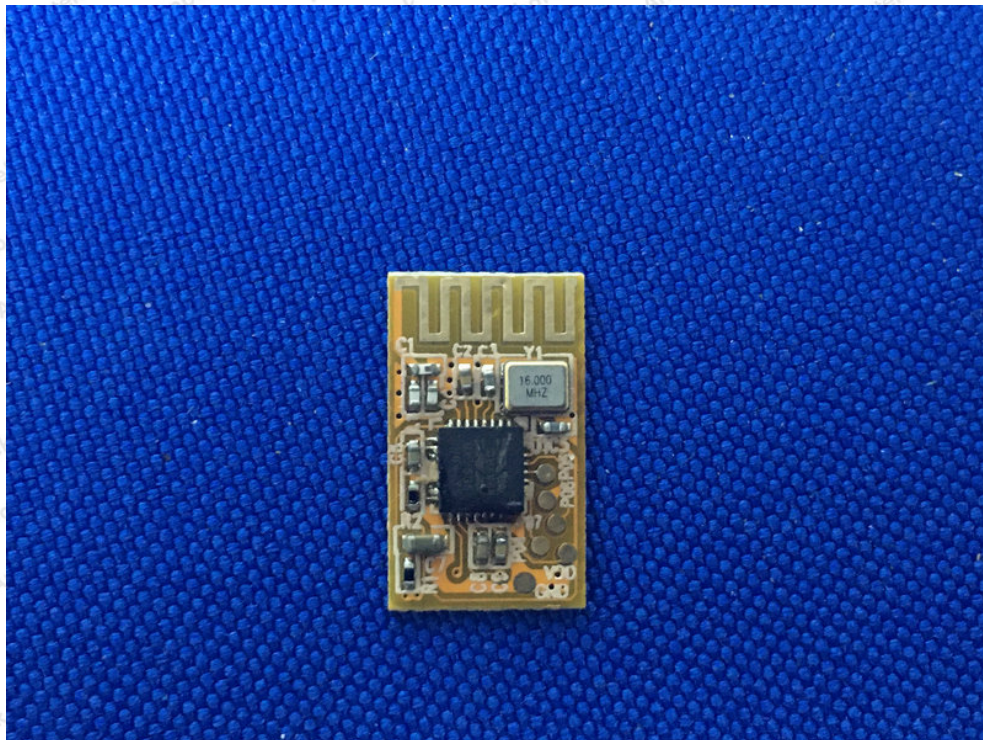


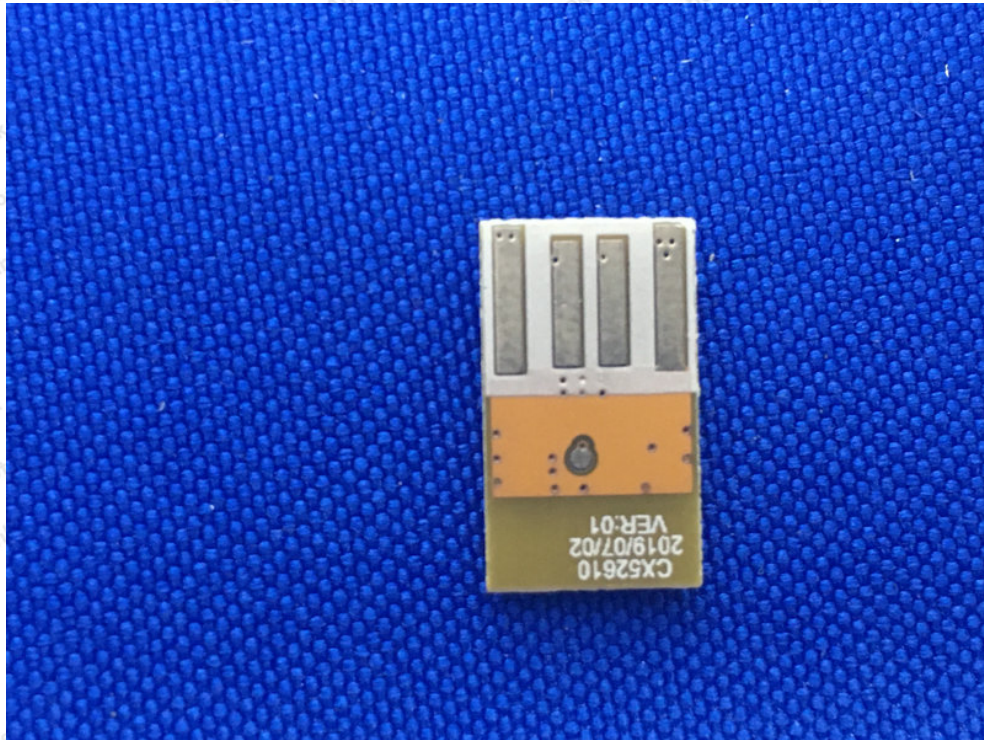
APPENDIX II -- EXTERNAL PHOTOGRAPH





APPENDIX III -- INTERNAL PHOTOGRAPH





----- End of Report -----

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