

FCC TEST REPORT

Client Name : ACCO Brands, Inc.
Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo,
CA94404, United States
Product Name : Wireless dongle
Date : Jun. 17, 2019

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. : M01440-D
Trade Mark : Kensington
Rating(s) : Input: DC 5V, 25mA by USB Port

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 : May 10, 2019
Date of Test : May 10~22, 2019

Prepared by



Dolly Mo

(Engineer / Dolly Mo)

Reviewer

Snowy Meng

(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	ACCO Brands, Inc.
Address	:	1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA94404, United States
Manufacturer	:	ACCO Brands, Inc.
Address	:	1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA94404, United States

1.2. Description of Device (EUT)

Product Name	:	Wireless dongle
Model No.	:	M01440-D
Trade Mark	:	Kensington
Test Power Supply	:	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):	-4.35 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

Notebook	Manufacturer: Lenovo M/N: TP00067C S/N: CAN ICES-3(B)/NMB-3(B) DC Rating: DC 20V, 2.25A/3.25A CE , FCC DOC, CCC
	Adapter:
	M/N: ADLX65NLC3A Input: 100V-240V~ 50/60Hz, 1.8A Output: DC 20V, 3.25A

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

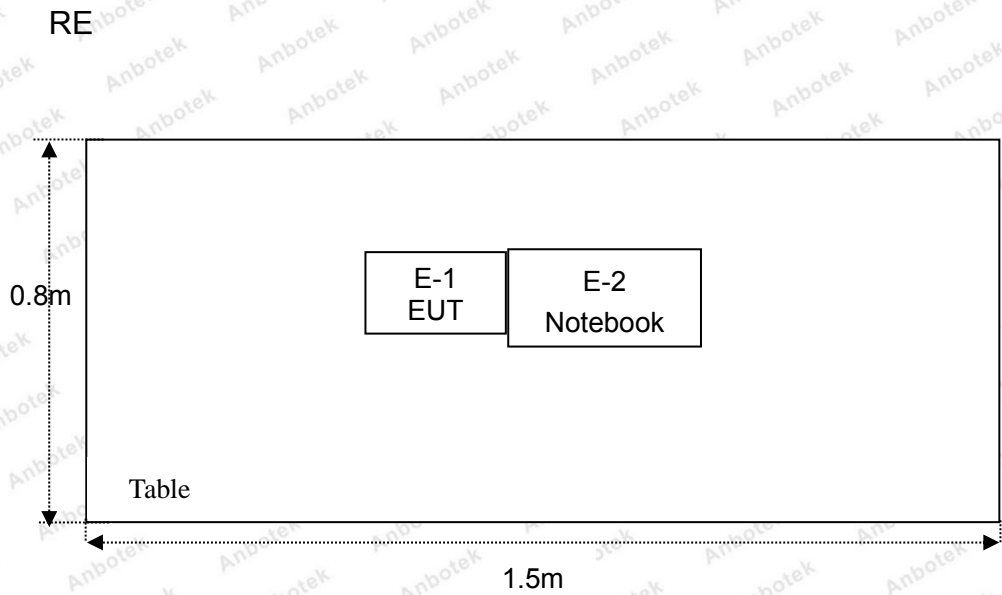
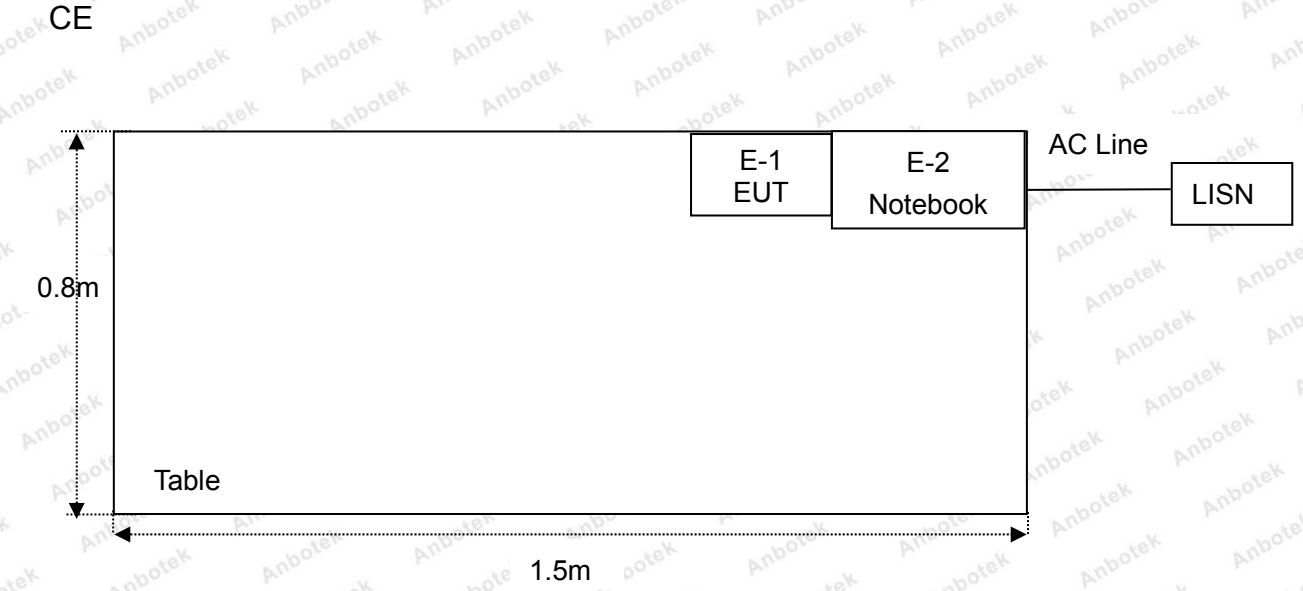
Note:

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)
01	2403	05	2422	09	2441	13	2463
02	2407	06	2426	10	2445	14	2466
03	2414	07	2436	11	2453	15	2473
04	2419	08	2439	12	2459	16	2480

1.6. Description of Test Setup



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. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year

1.8. 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 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 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-1, June 13, 2016.

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	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.		

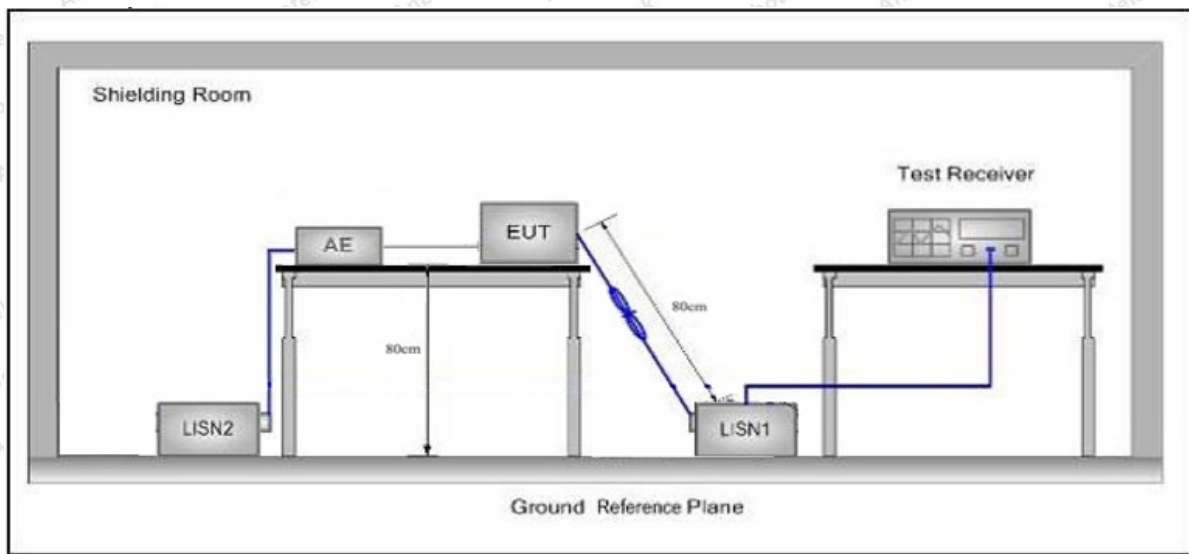
3. Conducted Emission Test

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 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.

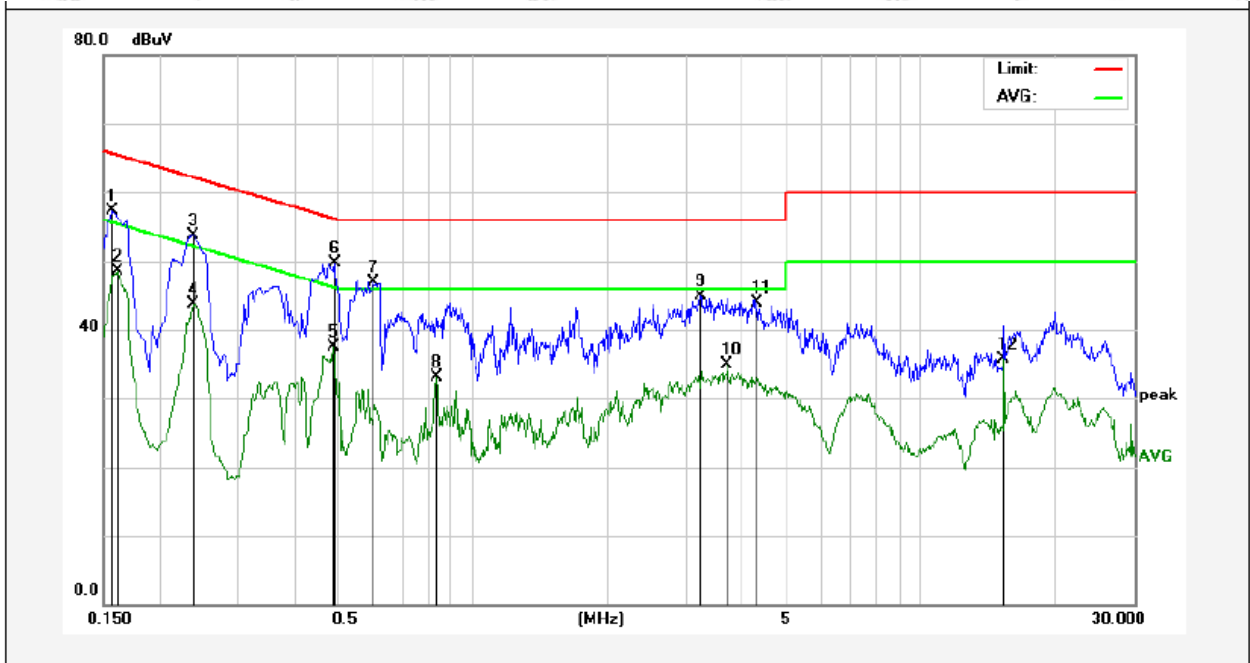
3.4. Test Data

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

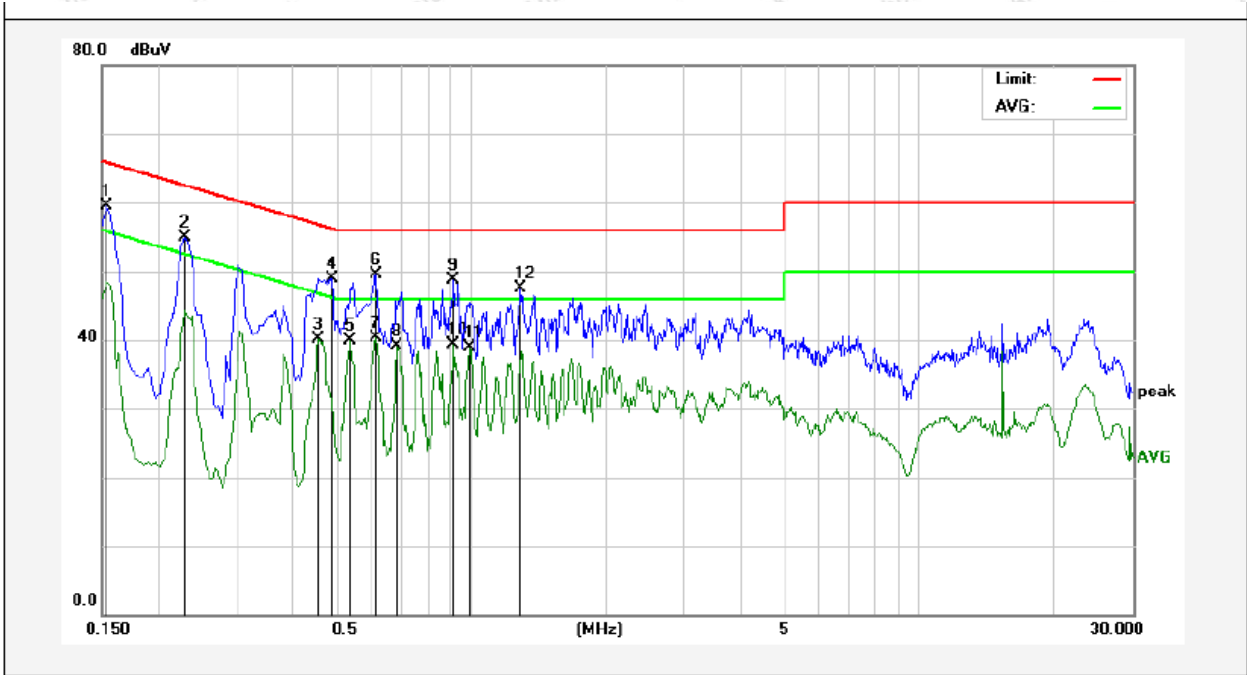
Test Site: 1# Shielded Room
 Operating Condition: CH 01
 Test Specification: DC 5V by USB Port
 Comment: Live Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	37.41	19.90	57.31	65.56	-8.25	QP	
2	0.1620	28.57	19.90	48.47	55.36	-6.89	AVG	
3	0.2380	33.82	19.89	53.71	62.16	-8.45	QP	
4	0.2380	23.76	19.89	43.65	52.16	-8.51	AVG	
5	0.4900	17.47	19.98	37.45	46.17	-8.72	AVG	
6	0.4940	29.78	19.98	49.76	56.10	-6.34	QP	
7	0.6020	26.99	20.01	47.00	56.00	-9.00	QP	
8	0.8340	13.00	20.08	33.08	46.00	-12.92	AVG	
9	3.2340	24.66	20.16	44.82	56.00	-11.18	QP	
10	3.7180	14.73	20.17	34.90	46.00	-11.10	AVG	
11	4.3260	23.69	20.19	43.88	56.00	-12.12	QP	
12	15.3580	15.37	20.27	35.64	50.00	-14.36	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: CH 01
 Test Specification: DC 5V by USB Port
 Comment: Neutral Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	39.63	19.90	59.53	65.78	-6.25	QP	
2	0.2300	35.08	19.89	54.97	62.45	-7.48	QP	
3	0.4580	20.20	19.96	40.16	46.73	-6.57	AVG	
4	0.4900	28.99	19.98	48.97	56.17	-7.20	QP	
5	0.5380	20.01	19.99	40.00	46.00	-6.00	AVG	
6	0.6140	29.52	20.01	49.53	56.00	-6.47	QP	
7	0.6140	20.26	20.01	40.27	46.00	-5.73	AVG	
8	0.6860	18.98	20.04	39.02	46.00	-6.98	AVG	
9	0.9180	28.60	20.10	48.70	56.00	-7.30	QP	
10	0.9180	19.24	20.10	39.34	46.00	-6.66	AVG	
11	0.9900	18.79	20.12	38.91	46.00	-7.09	AVG	
12	1.2940	27.40	20.13	47.53	56.00	-8.47	QP	

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

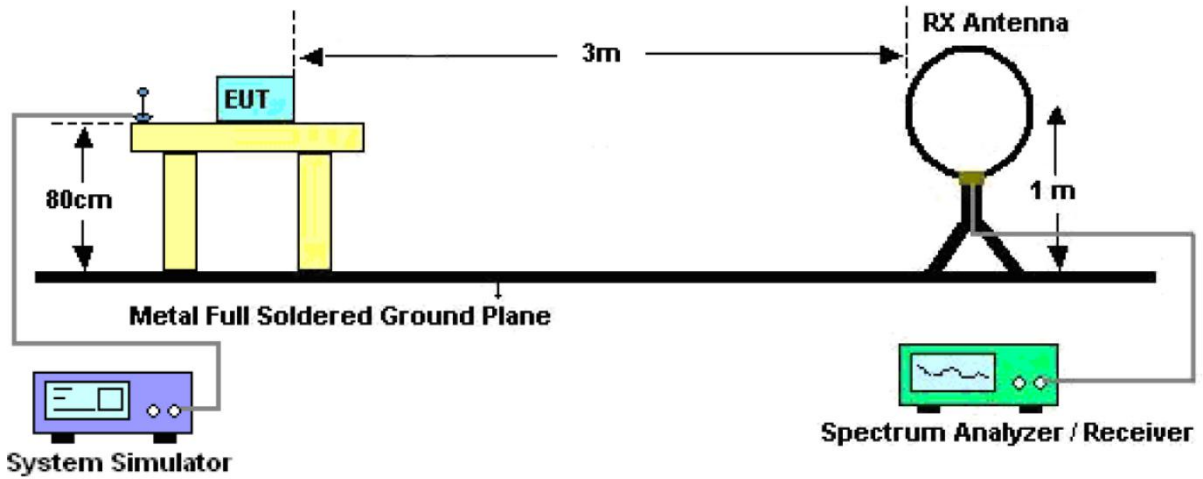


Figure 2. 30MHz to 1GHz

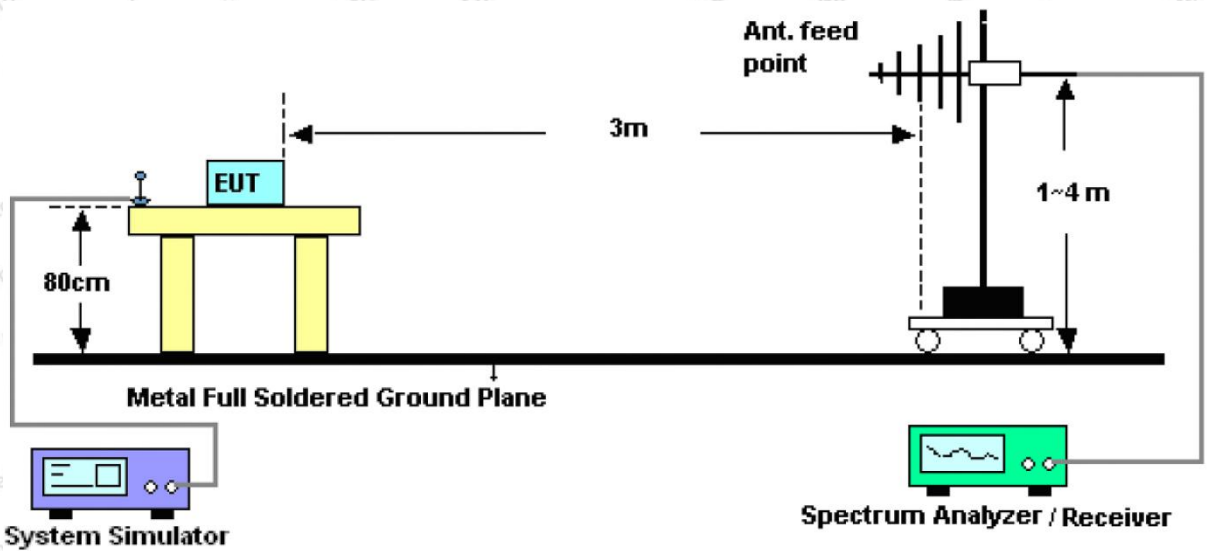
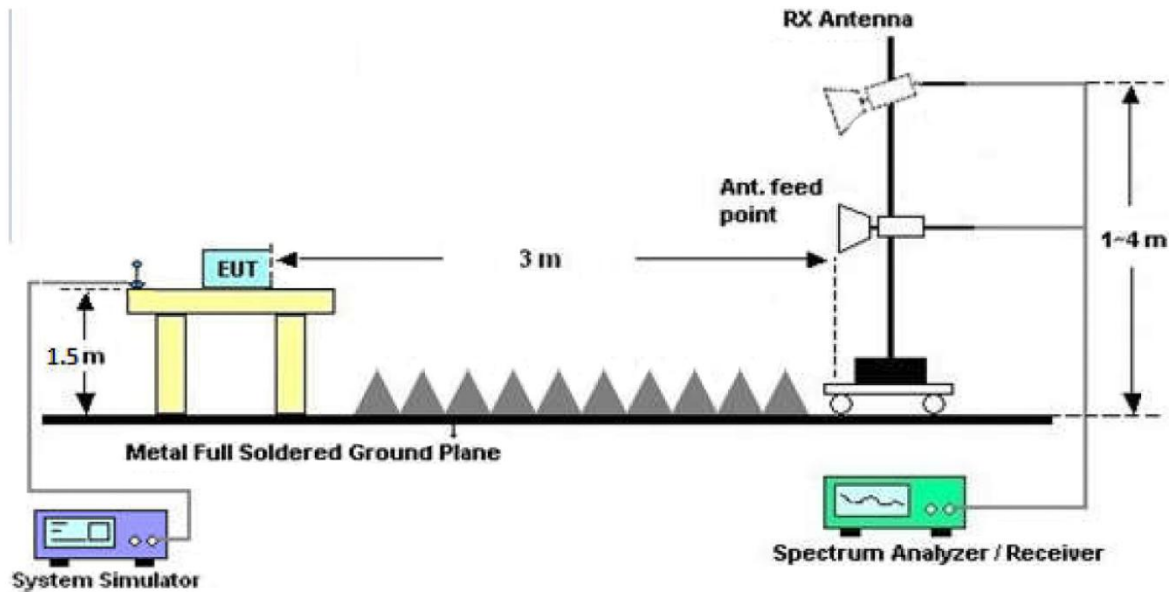


Figure 3. Above 1 GHz



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.

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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

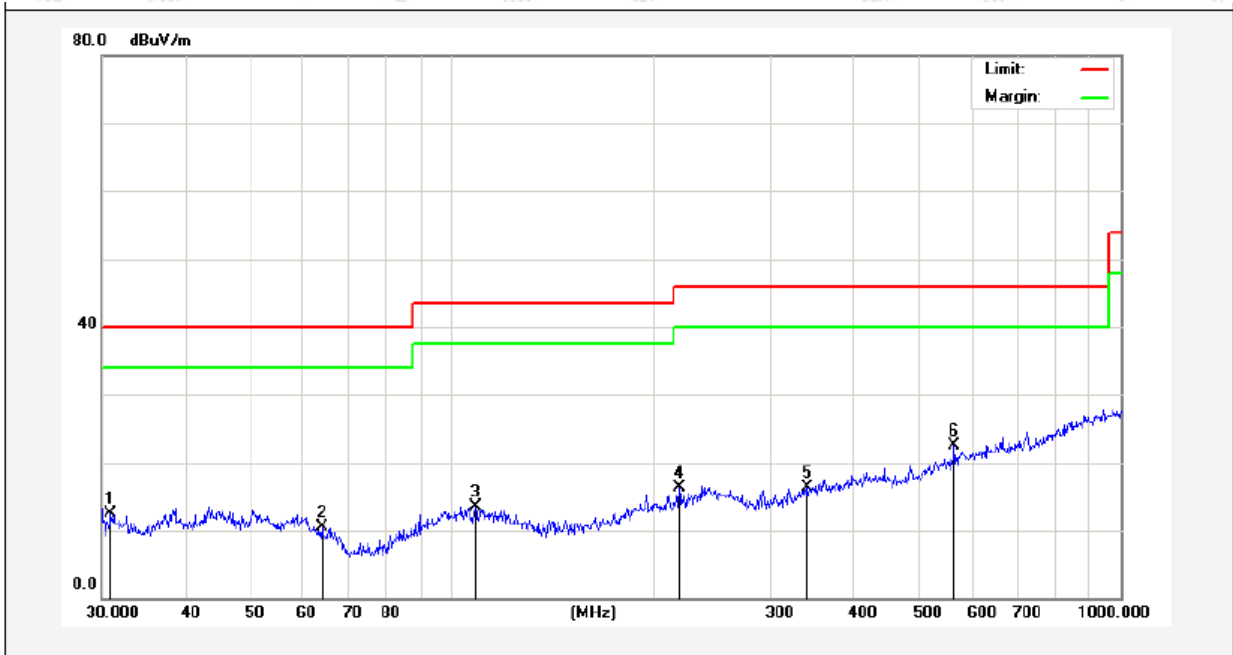
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

Test Results (30~1000MHz)

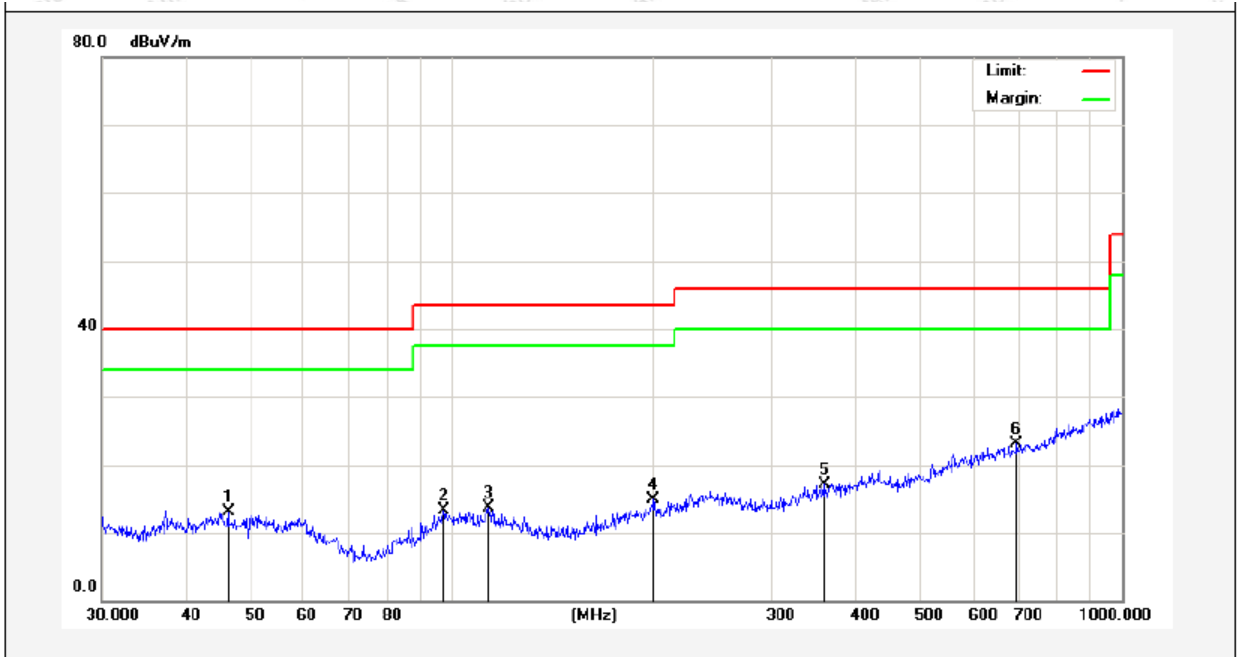
Job No.: SZAWW190510012-02 Temp.(°C)/Hum.(%RH): 23.7°C/51%RH
 Standard: FCC PART 15C Power Source: DC 5V by USB Port
 Test Mode: Mode 2 Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.9618	31.49	-18.94	12.55	40.00	-27.45	QP	300	0	
2	63.9827	30.55	-20.00	10.55	40.00	-29.45	QP	300	54	
3	108.6470	36.20	-22.74	13.46	43.50	-30.04	QP	300	122	
4	219.0749	37.25	-20.95	16.30	46.00	-29.70	QP	300	223	
5	340.7817	31.65	-15.30	16.35	46.00	-29.65	QP	300	333	
6	564.6389	34.74	-12.20	22.54	46.00	-23.46	QP	300	360	

Test Results (30~1000MHz)

Job No.: SZAWW190510012 -02 Temp.(°C)/Hum.(%RH): 23.7°C/51%RH
 Standard: FCC PART 15C Power Source: DC 5V by USB Port
 Test Mode: Mode 2 Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.3402	29.63	-16.59	13.04	40.00	-26.96	QP	300	0	
2	97.1148	30.32	-17.11	13.21	43.50	-30.29	QP	300	64	
3	113.3163	30.56	-16.95	13.61	43.50	-29.89	QP	300	121	
4	199.9856	31.58	-16.73	14.85	43.50	-28.65	QP	300	222	
5	359.1860	30.99	-13.80	17.19	46.00	-28.81	QP	300	333	
6	696.8567	32.45	-9.31	23.14	46.00	-22.86	QP	300	360	

Test Results (1GHz-25GHz)

Test Mode: CH01 (Low channel)									
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.	Detector
2403.0000	94.93	31.12	2.18	35.33	92.90	114.00	-21.10	V	Peak
2403.0000	85.36	31.12	2.18	35.33	83.33	94.00	-10.67	V	AVG
4806.0000	47.31	34.01	2.58	34.65	49.25	74.00	-24.75	V	Peak
4806.0000	41.60	34.01	2.58	34.65	43.54	54.00	-10.46	V	AVG
7209.0000	48.99	36.16	2.97	35.07	53.05	74.00	-20.95	V	Peak
7209.0000	36.09	36.16	2.97	35.07	40.15	54.00	-13.85	V	AVG
9612.0000	*								
12015.0000	*								
14418.0000	*								
16821.0000	*								
2403.0000	93.91	31.12	2.18	35.33	91.88	114.00	-22.12	H	Peak
2403.0000	82.46	31.12	2.18	35.33	80.43	94.00	-13.57	H	AVG
4806.0000	48.59	34.01	2.58	34.65	50.53	74.00	-23.47	H	Peak
4806.0000	38.63	34.01	2.58	34.65	40.57	54.00	-13.43	H	AVG
7209.0000	46.27	36.16	2.97	35.07	50.33	74.00	-23.67	H	Peak
7209.0000	38.81	36.16	2.97	35.07	42.87	54.00	-11.13	H	AVG
9612.0000	*								
12015.0000	*								
14418.0000	*								
16821.0000	*								

Note:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier 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)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2441.0000	97.00	31.12	2.20	34.51	95.81	114.00	-18.19	V	Peak
2441.0000	83.97	31.22	2.20	34.51	82.88	94.00	-11.12	V	AVG
4882.0000	48.09	34.98	2.49	34.14	51.42	74.00	-22.58	V	Peak
4882.0000	41.25	34.98	2.49	34.14	44.58	54.00	-9.42	V	AVG
7323.0000	45.38	36.01	3.01	34.56	49.84	74.00	-24.16	V	Peak
7323.0000	38.78	36.01	3.01	34.56	43.24	54.00	-10.76	V	AVG
9764.0000	*								
12205.0000	*								
14646.0000	*								
17087.0000	*								
2441.0000	96.16	31.12	2.20	34.51	94.97	114.00	-19.03	H	Peak
2441.0000	84.10	31.12	2.20	34.51	82.91	94.00	-11.09	H	AVG
4882.0000	50.96	34.98	2.49	34.14	54.29	74.00	-19.71	H	Peak
4882.0000	38.61	34.98	2.49	34.14	41.94	54.00	-12.06	H	AVG
7323.0000	46.24	36.01	3.01	34.56	50.70	74.00	-23.30	H	Peak
7323.0000	38.38	36.01	3.01	34.56	42.84	54.00	-11.16	H	AVG
9764.0000	*								
12205.0000	*								
14646.0000	*								
17087.0000	*								

Note:

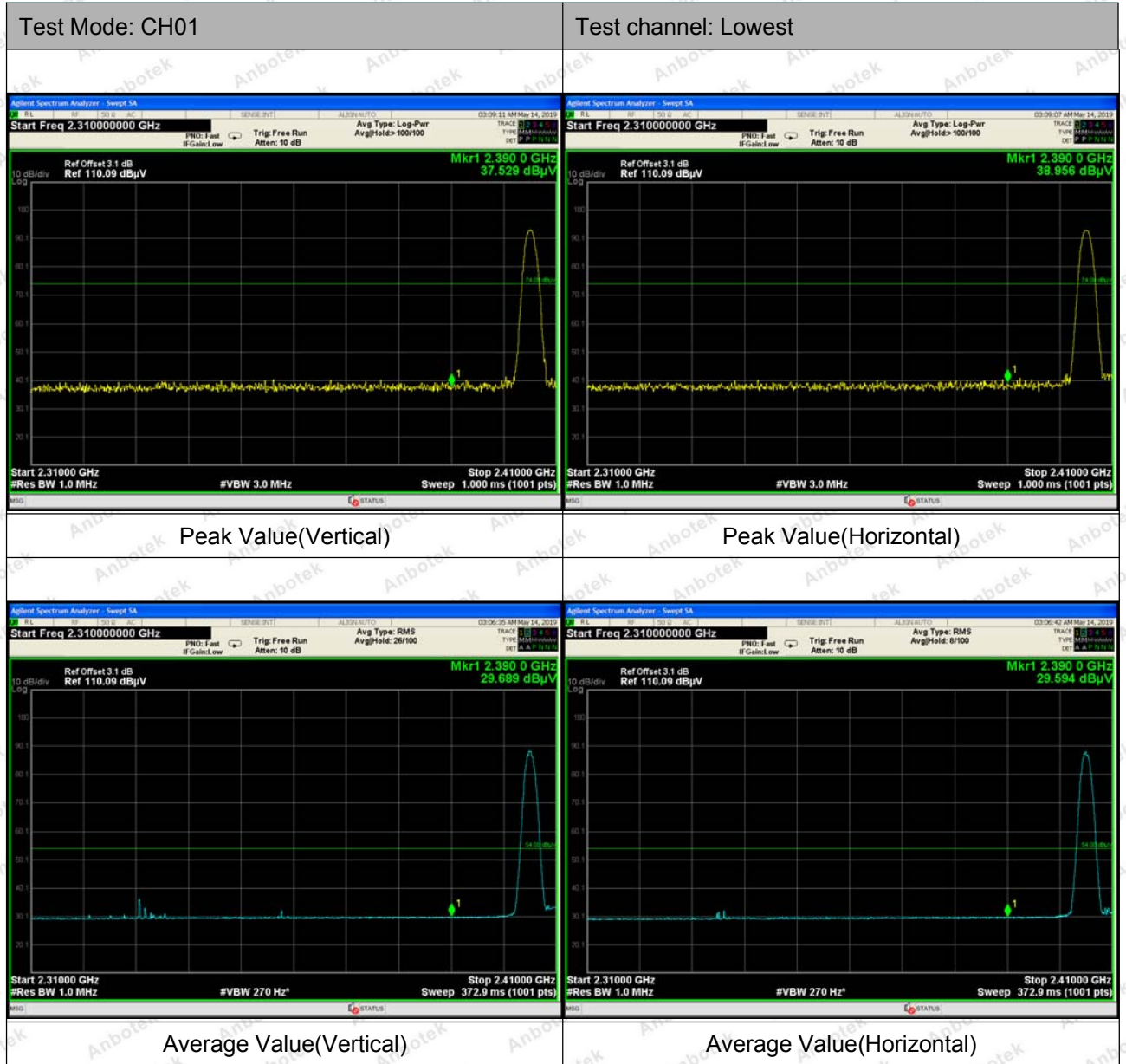
1. Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

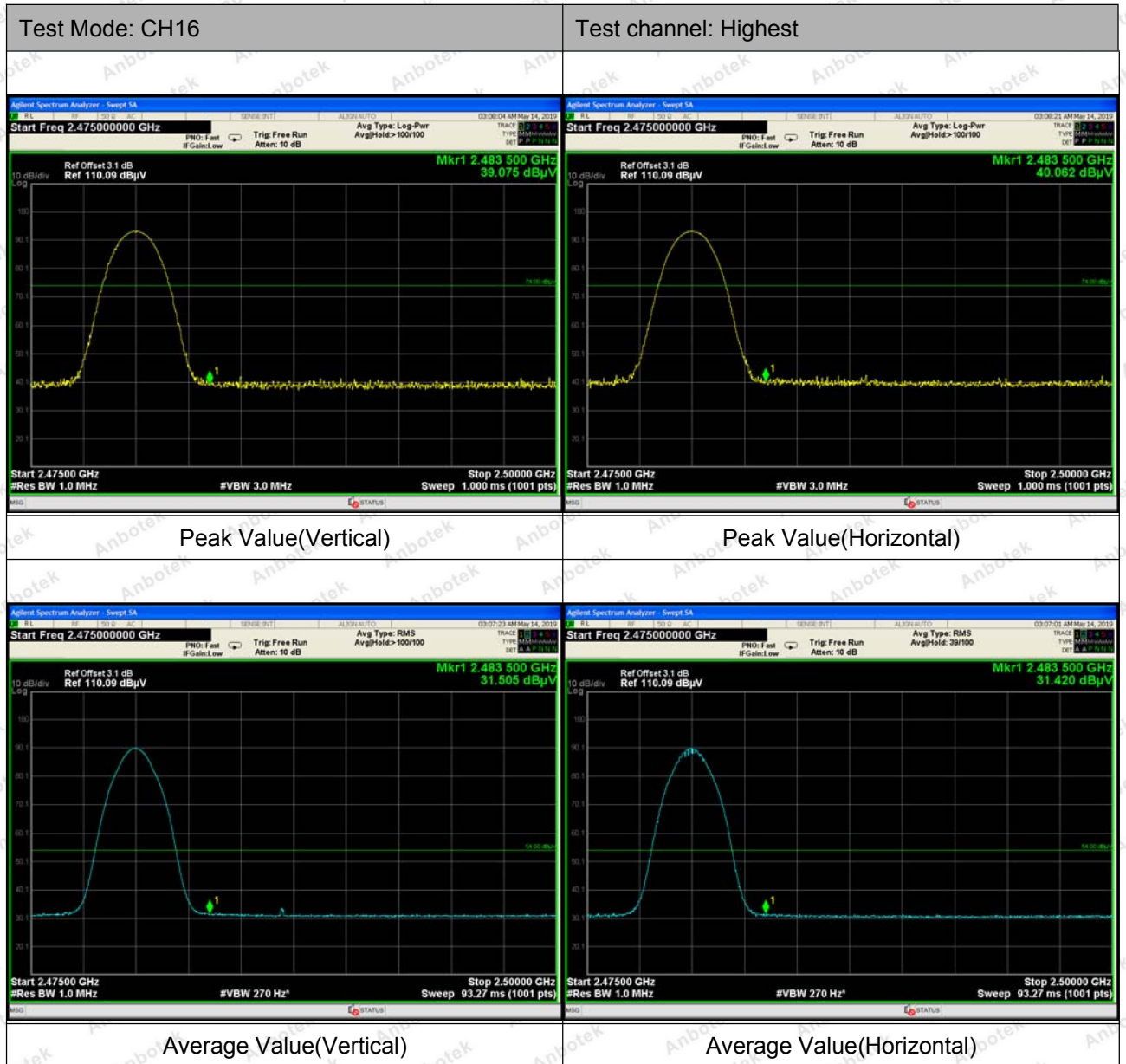
Test Mode: CH16 (High channel)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
2480.0000	94.67	31.65	2.23	36.07	92.48	114.00	-21.52	V	Peak
2480.0000	83.06	31.65	2.23	36.07	80.87	94.00	-13.13	V	AVG
4960.0000	47.90	35.06	2.60	34.93	50.63	74.00	-23.37	V	Peak
4960.0000	40.63	35.06	2.60	34.93	43.36	54.00	-10.64	V	AVG
7440.0000	46.22	36.19	3.12	35.11	50.42	74.00	-23.58	V	Peak
7440.0000	38.69	36.19	3.12	35.11	42.89	54.00	-11.11	V	AVG
9920.0000	*								
12400.0000	*								
14880.0000	*								
17360.0000	*								
2480.0000	94.40	31.65	2.23	36.07	92.21	114.00	-21.79	H	Peak
2480.0000	82.07	31.65	2.23	36.07	79.88	94.00	-14.12	H	AVG
4960.0000	50.69	35.06	2.60	34.93	53.42	74.00	-20.58	H	Peak
4960.0000	39.50	35.06	2.60	34.93	42.23	54.00	-11.77	H	AVG
7440.0000	47.19	36.19	3.12	35.11	51.39	74.00	-22.61	H	Peak
7440.0000	36.41	36.19	3.12	35.11	40.61	54.00	-13.39	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.

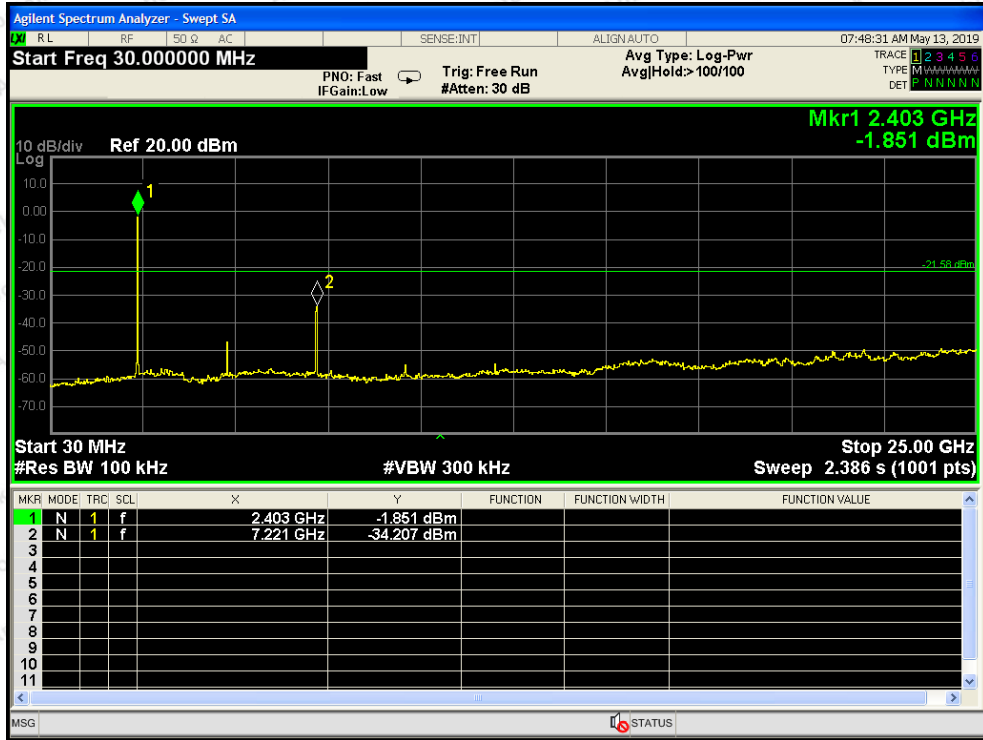
Radiated Band Edge:



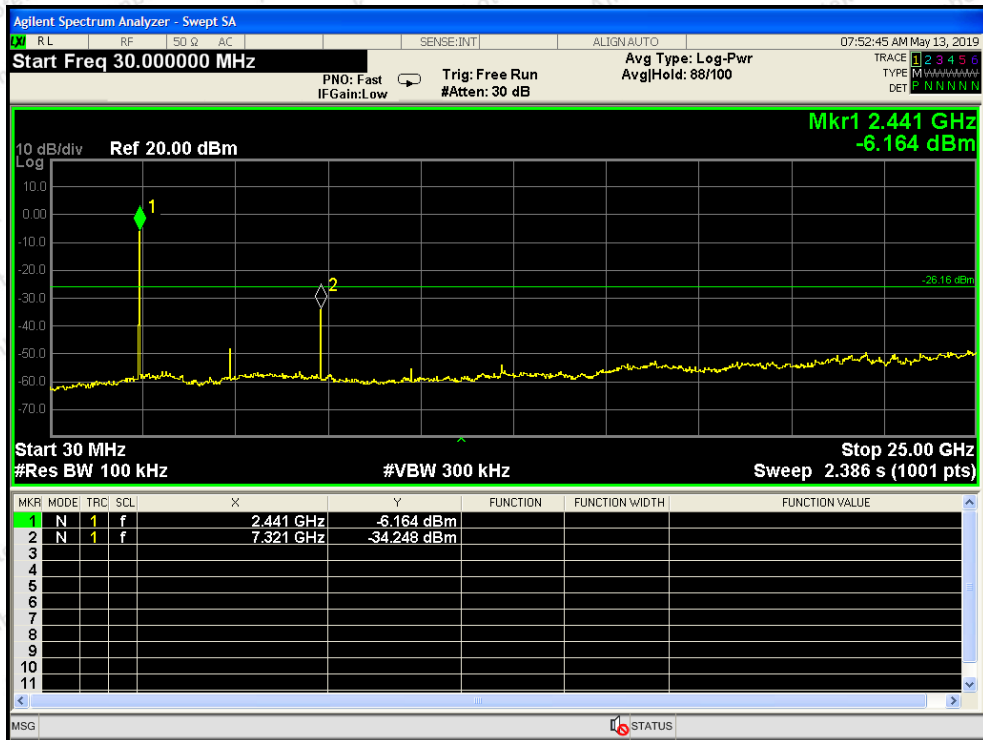


Remark:

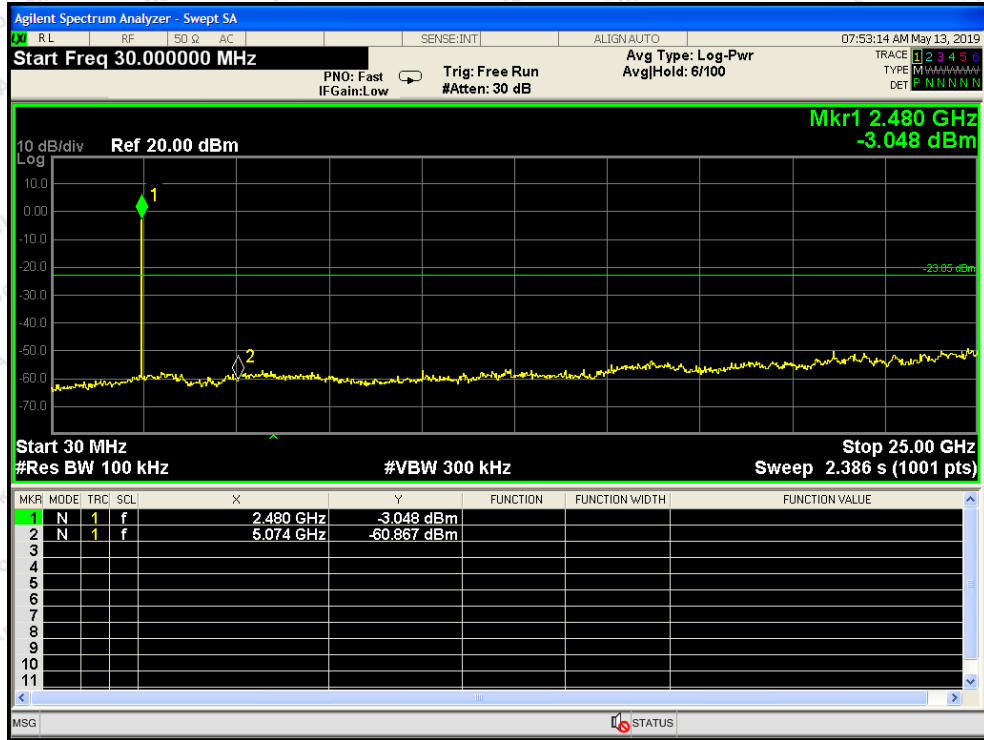
1. Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor



CH: Low



CH: Middle



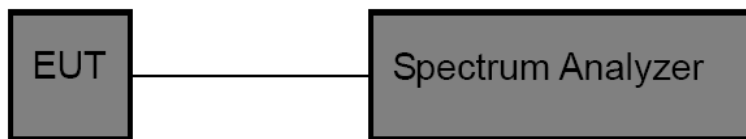
CH: High

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



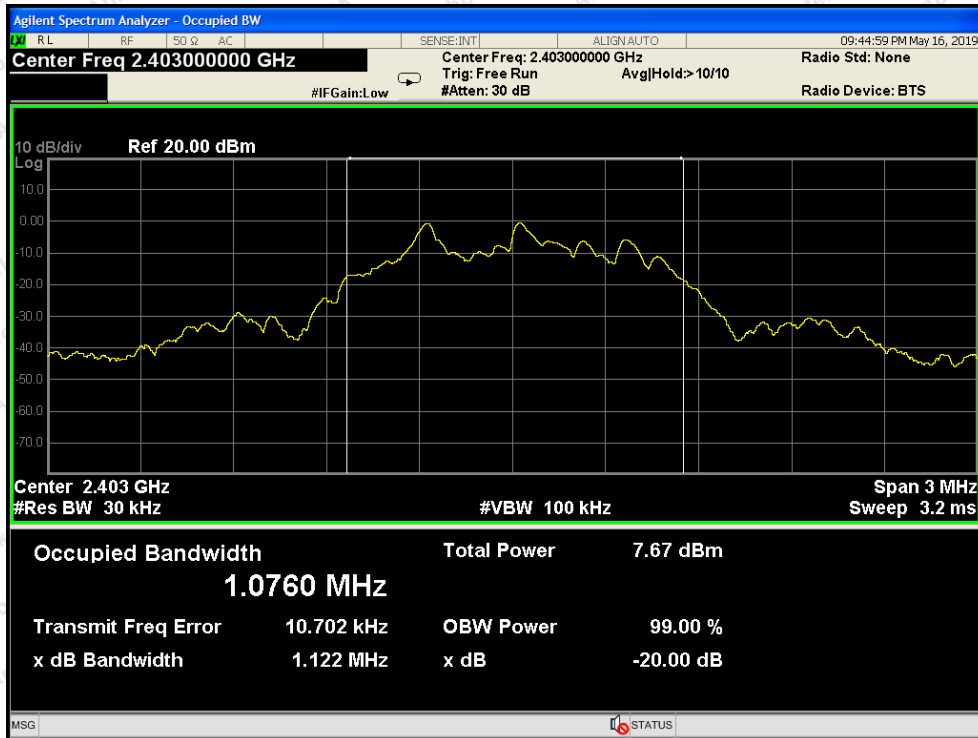
5.3. Test Procedure

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 ≥ 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.

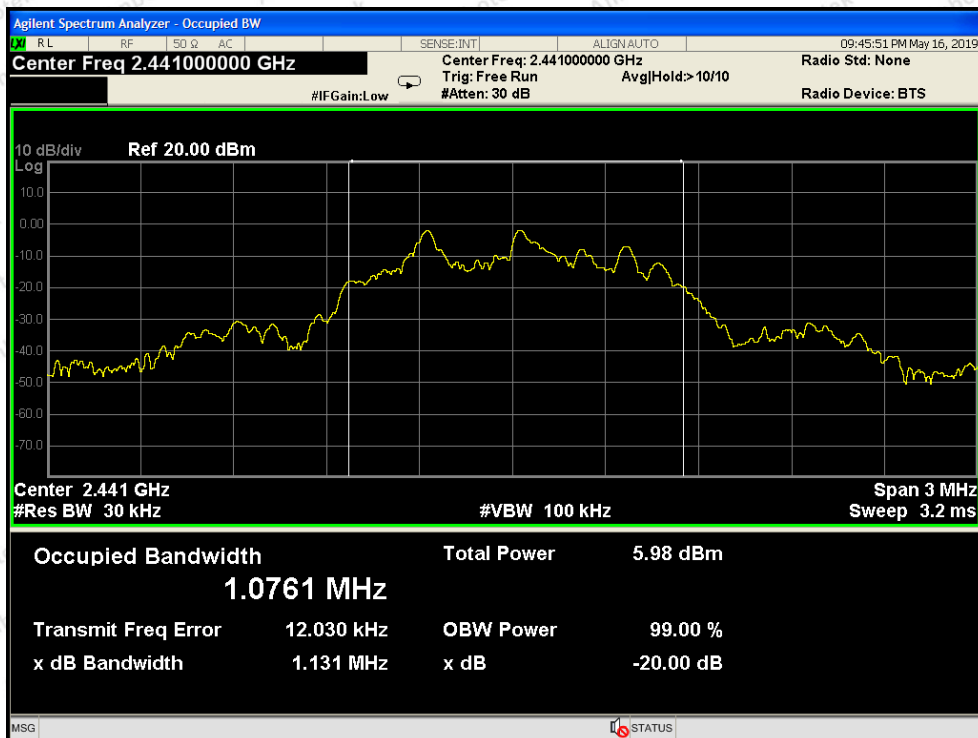
5.4. Test Data

Test Item	: 20dB Bandwidth	Test Mode	: Mode 1
Test Voltage	: DC 5V by USB Port	Temperature	: 22.4°C
Test Result	: PASS	Humidity	: 55%RH

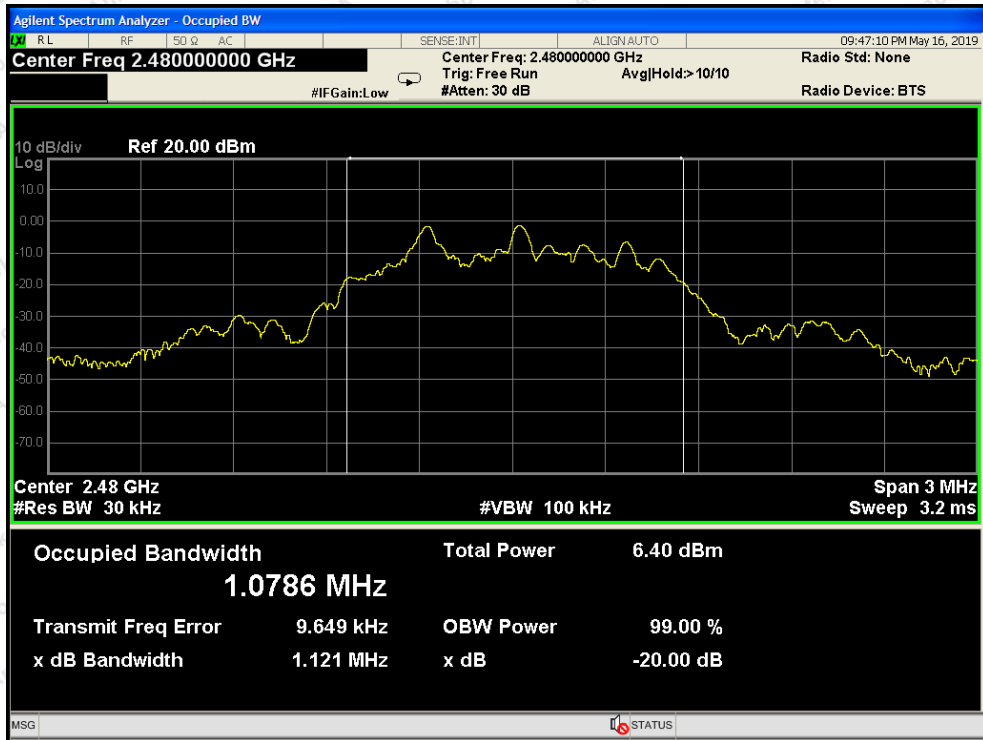
Frequency (MHz)	Bandwidth (kHz)	Result
2403MHZ	1122	PASS
2441MHZ	1131	PASS
2480MHZ	1121	PASS



Test Mode: Low



Test Mode: Middle



Test Mode: High

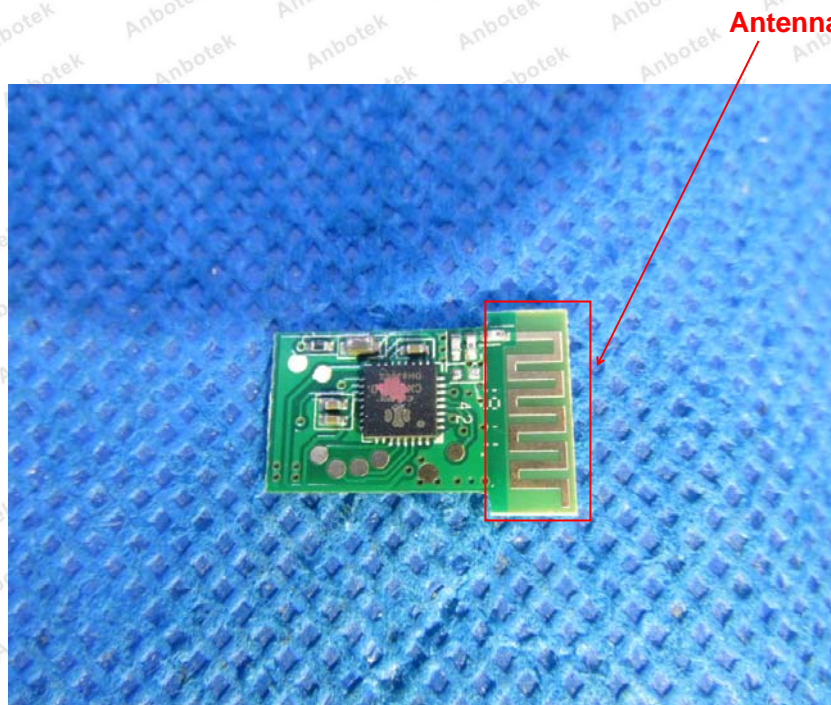
6. Antenna Requirement

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 -4.35 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Test



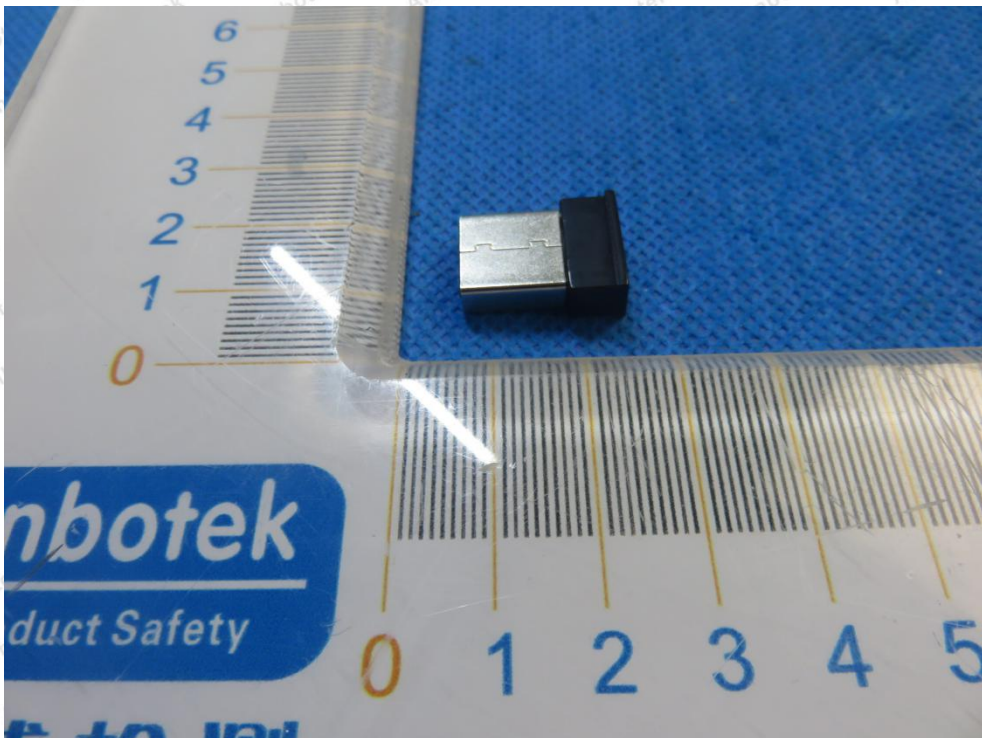
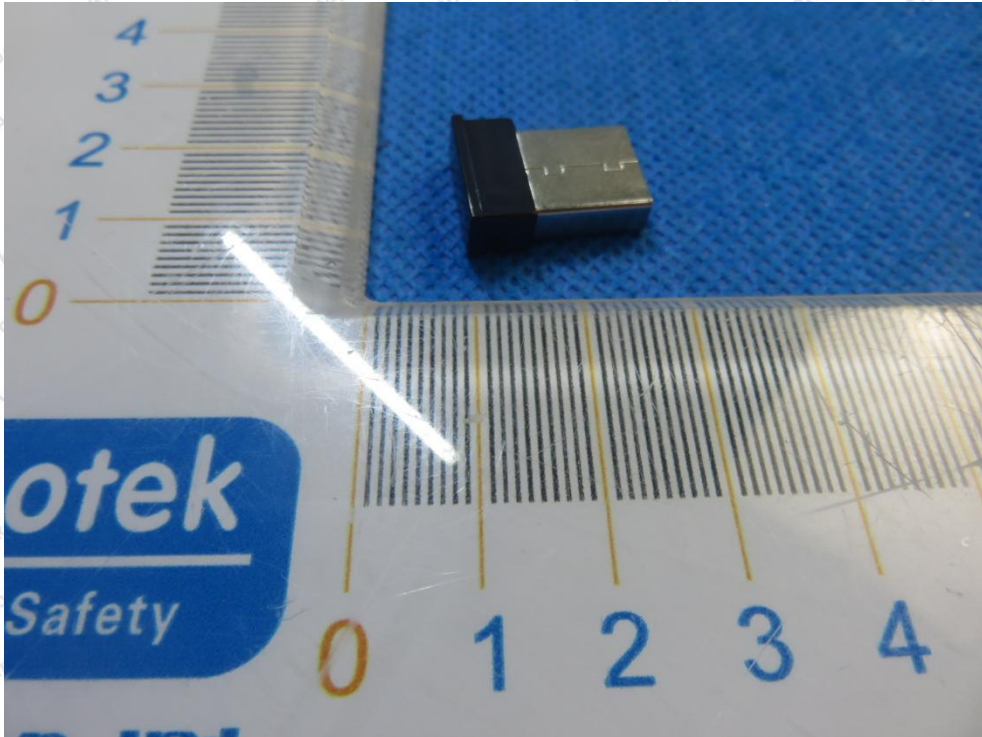
Photo of Radiation Emission Test

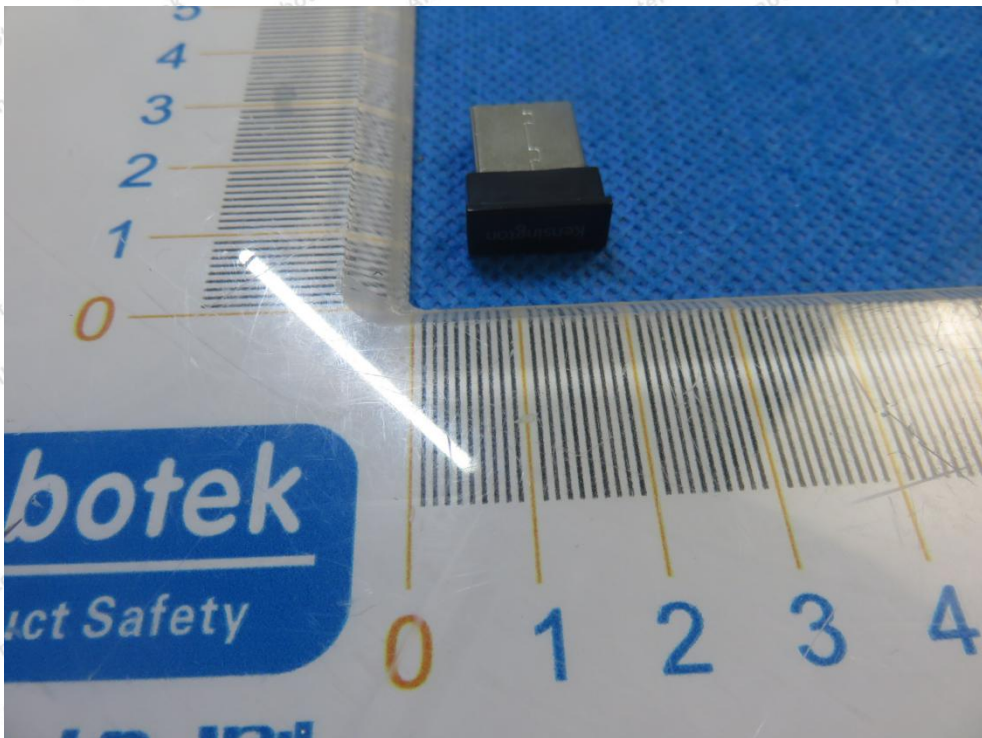
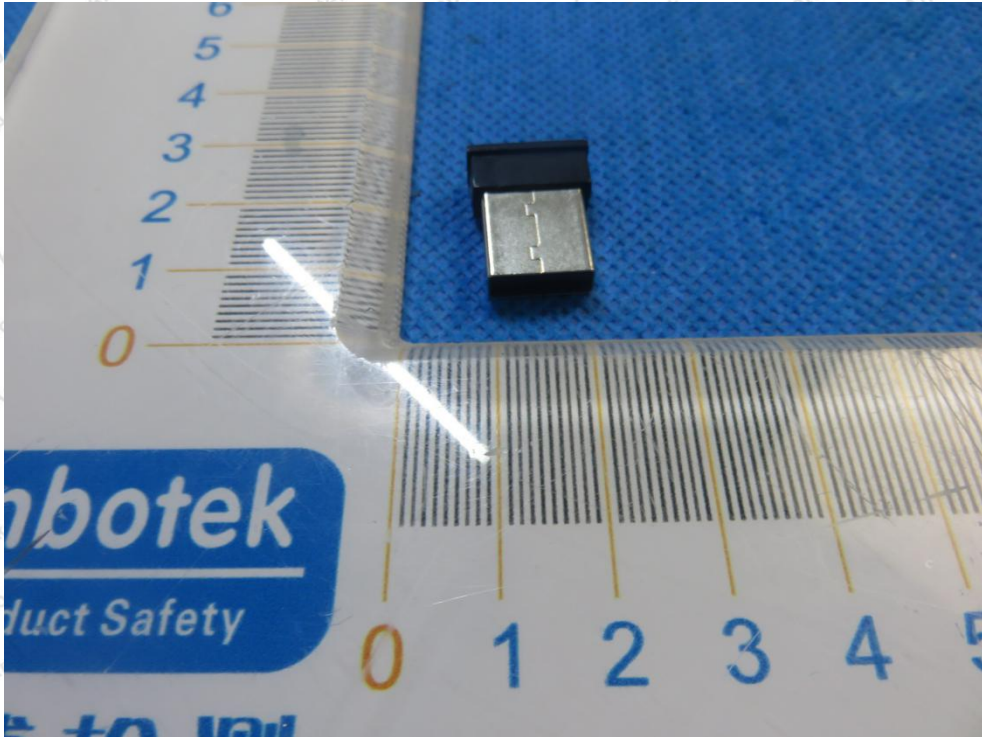




APPENDIX II -- EXTERNAL PHOTOGRAPH

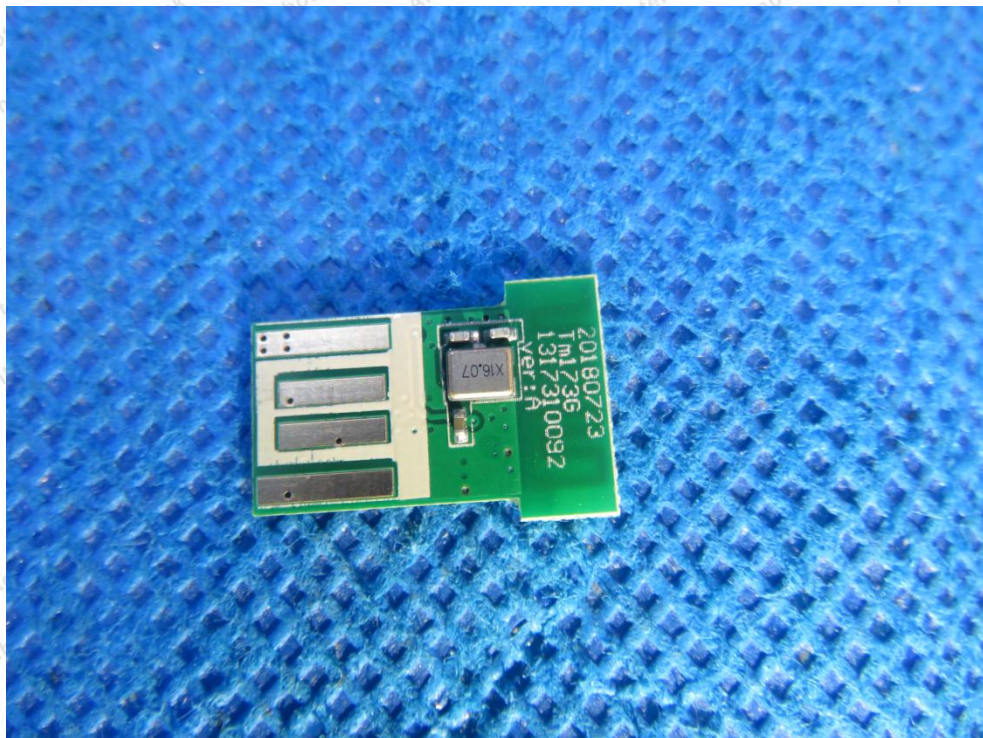






APPENDIX III -- INTERNAL PHOTOGRAPH







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