

Global United Technology Services Co., Ltd.

Report No.: GTS201910000096F01

Test Report

Applicant: **Grandex International Corporation**

Address of Applicant: 4F, No.525, Zhongzheng Rd., Xindian Dist., New Taipei City

23148, Taiwan (R.O.C.)

Manufacturer/Factory: **Grandex International Corporation**

Address of 4F, No.525, Zhongzheng Rd., Xindian Dist., New Taipei City

23148, Taiwan (R.O.C.) Manufacturer/Factory:

Equipment Under Test (EUT)

Product Name: True Wireless Smart Meat Thermometer

Model No.: PS851(PS850+TC200), PS851-B2(PS851+BR200), PS851-

B6(PS851+BR600),

PS85X-Y

X: The number of PS850 in package with TC200 (X=1, 2, 3...);

Y: The package include other Device,

Y= B2 (B2:BR200 Device), Y= B6 (B6:BR600 Device)

Trade Mark: Grandex/The MeatStick

2AHDSPS850-01 FCC ID:

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249

October 21, 2019 Date of sample receipt:

Date of Test: October 21-24, 2019

Date of report issued: October 24, 2019

Test Result: PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	October 24, 2019	Original

Prepared By:	Tjer. Che	Date:	October 24, 2019
	Project Engineer		
Check By:	Reviewer	Date:	October 24, 2019

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A, powered by battery
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.

2. N/A: Not applicable

3. Test according to ANSI C63.10:2013.

4.1 Measurement Uncertainty

Test Item Frequency Range Measurement Uncertainty						
Test item	r requericy range	Measurement officertainty	Notes			
Radiated Emission	30MHz-200MHz	3.8039dB	(1)			
Radiated Emission	200MHz-1GHz	3.9679dB	(1)			
Radiated Emission	1GHz-18GHz	4.29dB	(1)			
Radiated Emission	18GHz-40GHz	3.30dB	(1)			
AC Power Line Conducted Emission 0.15MHz ~ 30MHz 3.44dB						
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.			



5 General Information

5.1 General Description of EUT

Product Name:	True Wireless Smart Meat Thermometer
Model No.:	PS851(PS850+TC200), PS851-B2(PS851+BR200),
	PS851-B6(PS851+BR600),
	PS85X-Y
	X: The number of PS850 in package with TC200 (X=1, 2, 3);
	Y: The package include other Device,
	Y= B2 (B2:BR200 Device), Y= B6 (B6:BR600 Device)
Test Model No.:	PS851(PS850+TC200)
Remark: All above models are i differences are color and model	dentical in the same PCB layout, interior structure and electrical circuits. The name for commercial purpose.
Serial No.:	NA
Hardware Version:	PS850:MPB-PS850XX-01B-MAXN VER:1.0.1 95101
Software Version:	PS850:PS850_v0.3.29.3.0(-B)_191016
Test sample(s) ID:	GTS201910000096-1
Sample(s) Status	Engineered sample
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi(declare by applicant)
Power supply:	Battery: DC 3.15V



Operation F	Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz			
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz			
• !			. !	•	• !	• !	• !			
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz			
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz			

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, Full battery is used during all test. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. Only worse case Y axis is reported:

Axis	Х	Y	Z
Field Strength(dBuV/m)	80.35	82.69	80.44

5.3 Description of Support Units

None

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

• IC —Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	iated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2019	Oct. 19 2020
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2019	Oct. 19 2020
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2019	Oct. 19 2020
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020



ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 26 2019	June. 25 2020
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020

Gene	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020		
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 0dBi, reference to the appendix II for details



7.2 Radiated Emission Method

7.2 Radiated Emission W	etnoa								
Test Requirement:	FCC Part15 C S	Section 15.20	9						
Test Method:	ANSI C63.10:20	013							
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement D	Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	9kHz- 150kHz	Quasi-pea	k 200Hz	300Hz	Quasi-peak Value				
	150kHz- 30MHz	Quasi-pea	k 9kHz	10kHz	Quasi-peak Value				
	30MHz- 1GHz	Quasi-pea	k 120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
	Above Toriz	Peak	1MHz	10Hz	Average Value				
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark				
(Field strength of the	2400MH= 24	Average Value							
fundamental signal)	2400IVIHZ-22	2400MHz-2483.5MHz 114.00							
Limit:	Freque	encv	V/m)	Remark					
(Spurious Emissions)		Frequency Limit (uV/m) 0.009MHz-0.490MHz 2400/F(kHz) @300m							
	0.490MHz-1		z) @30m	Quasi-peak Value Quasi-peak Value					
	1.705MHz-3		30 @3		Quasi-peak Value				
	30MHz-8	88MHz	100 @	3m	Quasi-peak Value				
	88MHz-2	16MHz	150 @	3m	Quasi-peak Value				
	216MHz-9	60MHz	200 @	?3m	Quasi-peak Value				
	960MHz-	-1GHz	500 @	3m	Quasi-peak Value				
	Above 1	ICH ₇	500 @		Average Value				
			5000 @		Peak Value				
Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at least al radiated em	50 dB belov	bands, except for w the level of the in Section 15.209,				
Test setup:	For radiated e	missions fro	m 9kHz to 3	OMHz					
	Turn Table < 80cm > 4	EUI-	Test Antenna Im Receive						



Report No.: GTS201910000096F01 Test Antenna < 1m ... 4m > FUT Turn Table. < 80cm Turn Table+ Receiver. Preamplifier-For radiated emissions above 1GHz Test Antenna < 1m ... 4m > FUT Turn Table <150cm Receiver-Preamplifier-Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test environment: Humid.: 52% 1012mbar Temp.: 25 °C Press.: **Pass** Test results:

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Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	74.84	27.58	5.39	30.18	77.63	114.00	-36.37	Vertical
2402.00	79.9	27.58	5.39	30.18	82.69	114.00	-31.31	Horizontal
2440.00	74.64	27.55	5.43	30.06	77.56	114.00	-36.44	Vertical
2440.00	77.22	27.55	5.43	30.06	80.14	114.00	-33.86	Horizontal
2480.00	73.79	27.52	5.47	29.93	76.85	114.00	-37.15	Vertical
2480.00	76.96	27.52	5.47	29.93	80.02	114.00	-33.98	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	71.39	27.58	5.39	30.18	74.18	94.00	-19.82	Vertical
2402.00	76.68	27.58	5.39	30.18	79.47	94.00	-14.53	Horizontal
2440.00	71.62	27.55	5.43	30.06	74.54	94.00	-19.46	Vertical
2440.00	74.23	27.55	5.43	30.06	77.15	94.00	-16.85	Horizontal
2480.00	70.79	27.52	5.47	29.93	73.85	94.00	-20.15	Vertical
2480.00	74.27	27.52	5.47	29.93	77.33	94.00	-16.67	Horizontal

Note:RBW 3MHz VBW 3MHz PK detector is for PK value, RMS detector is for AV value



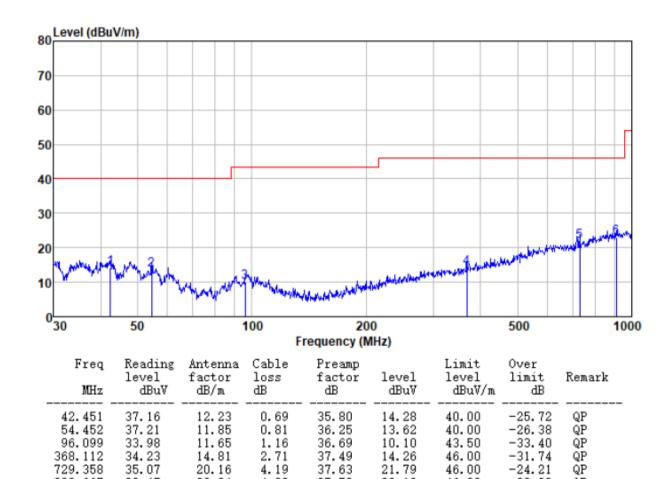
7.2.2 Spurious emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

Horizontal:



37.59

23.10

46.00

-22.90

33.47

22.34

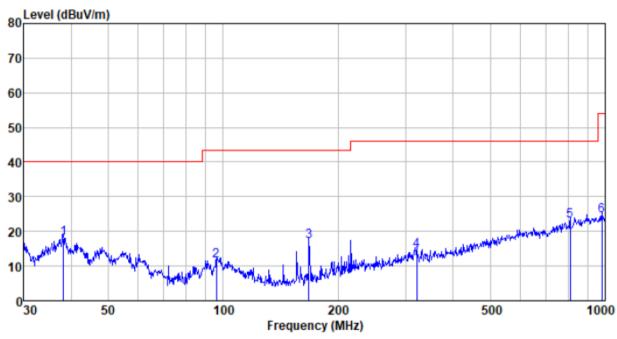
4.88

909.667



Vertical:

Report No.: GTS201910000096F01



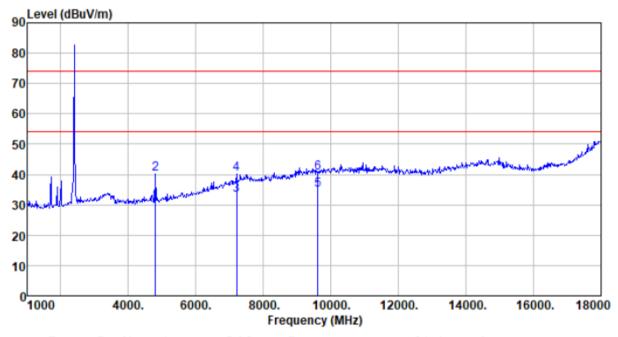
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
38.212	41.07	11.92	0.64	35.56	18.07	40.00	-21.93	QP
96.099	35.49	11.65	1.16	36.69	11.61	43.50	-31.89	QP
167.824	44.30	8.46	1.67	37.18	17.25	43.50	-26.25	QP
321.061	35.57	14.01	2.47	37.44	14.61	46.00	-31.39	QP
810.265	34.69	21.50	4.49	37.62	23.06	46.00	-22.94	QP
979.180	34.36	22.63	5.14	37.53	24.60	54.00	-29.40	QP



Above 1GHz

Test channel:	Lowest channel
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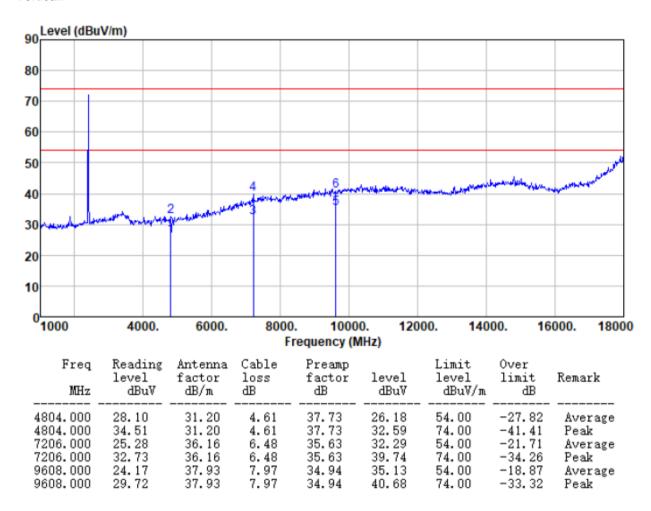
Horizontal:



	Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4804		32.82	31.20	4.61	37.73	30.90	54.00	-23.10	Average
4804 7206	.000	42.18 26.17	31.20 36.16	4.61 6.48	37.73 35.63	40.26 33.18	74.00 54.00	-33.74 -20.82	Peak Average
7206	.000	33.31	36.16	6.48	35.63	40.32	74.00	-33.68	Peak
	.000	23.88	37.93	7.97	34.94	34.84	54.00	-19.16	Average
9608	. 000	29.51	37.93	7.97	34.94	40.47	74.00	-33.53	Peak



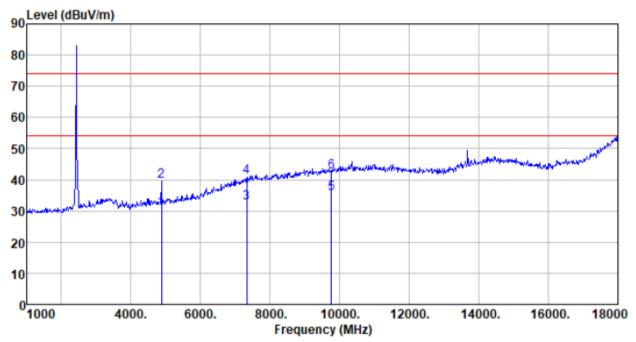
Vertical:





Test channel: Middle

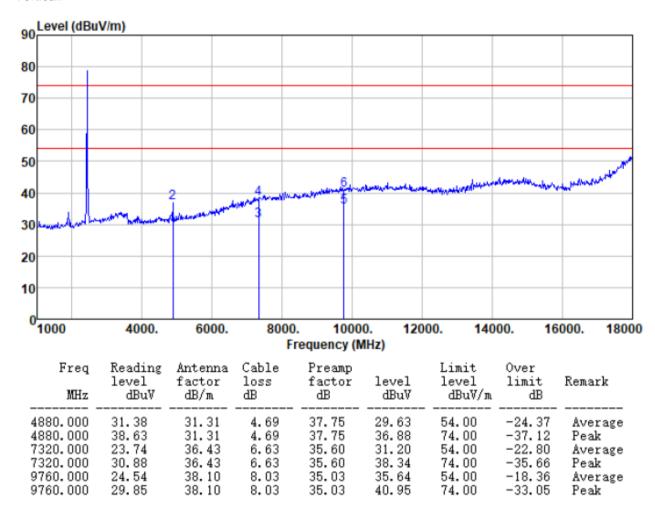
Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4880.000 4880.000 7320.000	32.31 41.32 25.06	31.31 31.31 36.43	4.69 4.69	37.75 37.75 35.60	30.56 39.57 32.52	54.00 74.00 54.00	-23.44 -34.43 -21.48	Average Peak
7320.000 7320.000 9760.000 9760.000	33. 31 24. 29 31. 43	36. 43 36. 43 38. 10 38. 10	6.63 6.63 8.03 8.03	35.60 35.03 35.03	40.77 35.39 42.53	74.00 54.00 74.00	-33.23 -18.61 -31.47	Average Peak Average Peak



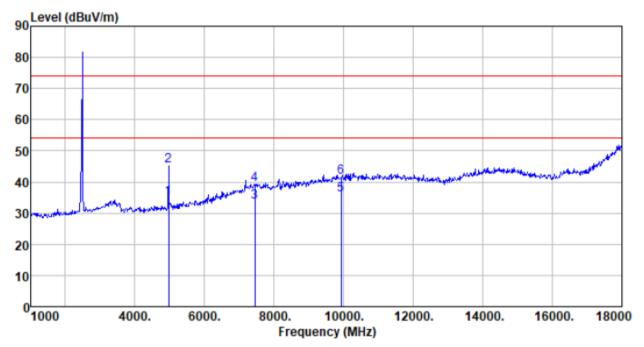
Vertical:





Test channel: Highest

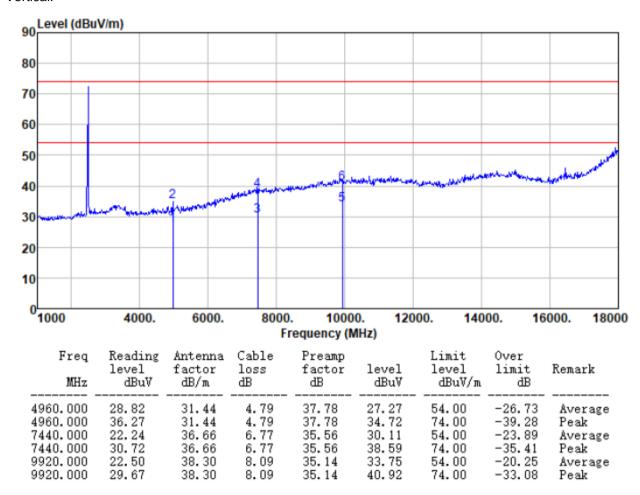
Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4960.000	36.59	31. 44	4.79	37.78	35.04	54.00	-18.96	Average
4960.000	46.65	31. 44	4.79	37.78	45.10	74.00	-28.90	Peak
7440.000	25.73	36. 66	6.77	35.56	33.60	54.00	-20.40	Average
7440.000	31.27	36. 66	6.77	35.56	39.14	74.00	-34.86	Peak
9920.000	24.67	38. 30	8.09	35.14	35.92	54.00	-18.08	Average
9920.000	30.37	38. 30	8.09	35.14	41.62	74.00	-32.38	Peak



Vertical:



Remarks:

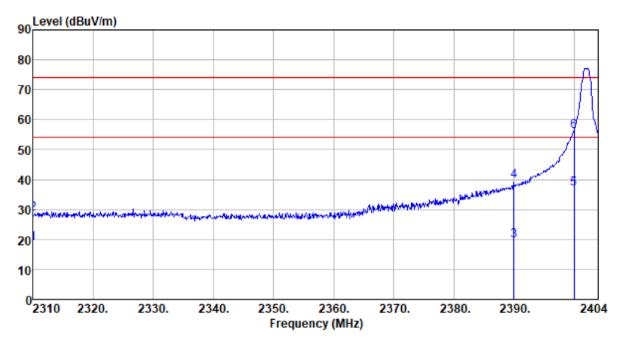
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.2.3 Bandedge emissions

Test channel:	Lowest channel
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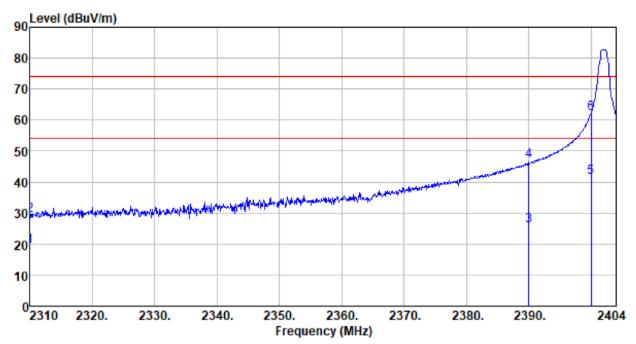
Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000 2310.000 2390.000	25.46 35.37 26.04	27.14 27.14 27.37	2.81 2.81	36. 79 36. 79 36. 85	18.62 28.53 19.47	54.00 74.00 54.00	-35.38 -45.47 -34.53	Average Peak
2390.000 2390.000 2400.000 2400.000	46.08 43.32 62.83	27.37 27.41 27.41	2.91 2.91 2.91 2.91	36.85 36.86 36.86	39.51 36.78 56.29	74.00 74.00 54.00 74.00	-34. 53 -34. 49 -17. 22 -17. 71	Average Peak Average Peak



Horizontal:

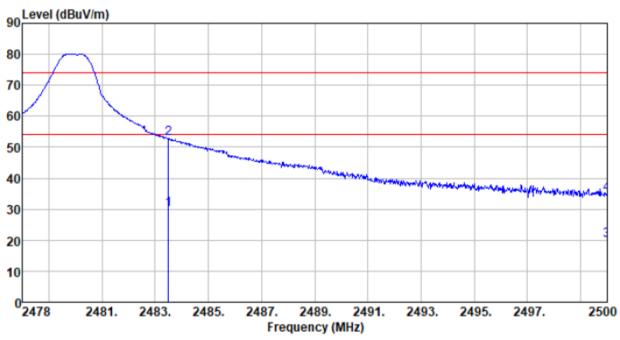


Freq	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000	26.00	27.14	2.81	36. 79	19.16	54.00	-34.84	Average
2310.000	35.94	27.14	2.81	36. 79	29.10	74.00	-44.90	Peak
2390.000	32.55	27.37	2.91	36. 85	25.98	54.00	-28.02	Average
2390.000	53.55	27.37	2.91	36. 85	46.98	74.00	-27.02	Peak
2400.000	48.15	27.41	2.91	36. 86	41.61	54.00	-12.39	Average
2400.000	68.56	27.41	2.91	36. 86	62.02	74.00	-11.98	Peak



Test channel: Highest channel

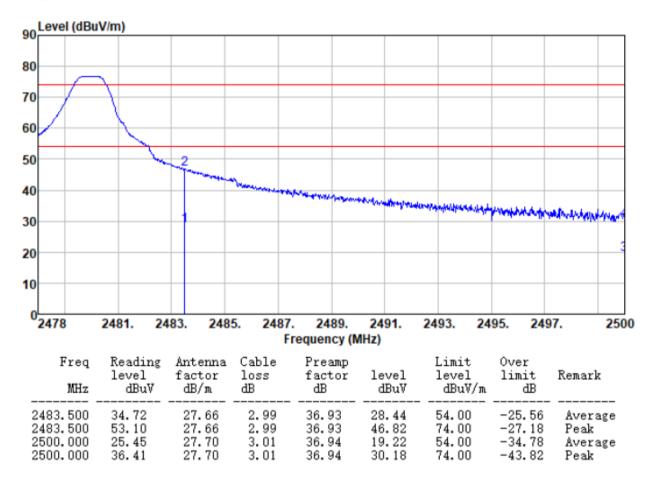
Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBu∀	Limit level dBuV/m	Over limit dB	Remark
2483.500	36.18	27.66	2.99	36.93	29.90	54.00	-24.10	Average
2483.500	59.02	27.66	2.99	36.93	52.74	74.00	-21.26	Peak
2500.000	26.13	27.70	3.01	36.94	19.90	54.00	-34.10	Average
2500.000	41.04	27.70	3.01	36.94	34.81	74.00	-39.19	Peak



Vertical:



Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.3 20dB Occupy Bandwidth

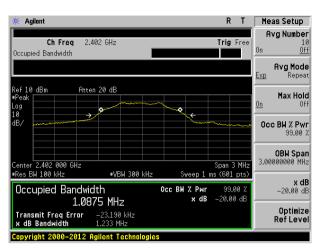
Test Requirement:	FCC Part15 C Section 15.249/15.215	
Test Method:	ANSI C63.10:2013	
Limit:	Operation Frequency range 2400MHz~2483.5MHz	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data

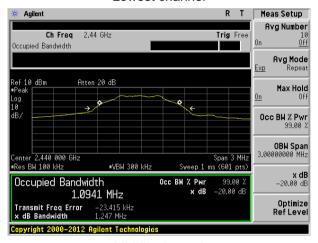
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.233	Pass
Middle	1.247	Pass
Highest	1.228	Pass



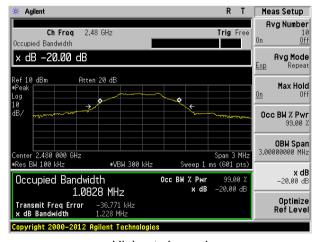
Test plot as follows:



Lowest channel



Middle channel



Highest channel



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----