TEST REPORT

Reference No	WTS18S07117356-2W
FCC ID:	2ANOX69092
Applicant	Kygo Life AS
Address:	Sjoyst Plass 3, 0278 Oslo, Norway
Manufacturer	Kygo Life AS
Address	Sjoyst Plass 3, 0278 Oslo, Norway
Product:	Wireless WiFi Smart Speaker
Model(s)	B9/800, KYGO B9 800
Standards:	FCC CFR47 Part 15 C Section 15.247: 2018
Date of Receipt sample	2018-07-06
Date of Test	2018-08-14 to 2018-08-30
Date of Issue	2018-08-31
Test Result	Pass
reproduced, except in full, without	report refer only to the sample(s) tested, this test report cannot be t prior written permission of the company. out specific stamp of test institute and the signatures of compiler and
	Prepared By: Waltek Services (Shenzhen) Co., Ltd. ing, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China Tel:+86-755-83551033 Fax:+86-755-83552400
Tested by:	Approved by:
Frank Yin	WALTER THE Zhou
Frank Yin / Test Engineer	Philo Zhong / Manager

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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation, the certification number is 4243.01) of USA, CNAS (China National Accreditation Service for Conformity Assessment, the registration number is L3110) of China.Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CEC(California energy efficiency), ISED Canada (Innovation, Science and Economic Development Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek(ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

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2.1 Test Facility

A. Accreditations for Conformity Assessment (International)

Country/Region	Scope Covered By	Scope	Note
USA		FCC ID \ SDoC(VOC/DOC)	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD\RED	-
Taiwan		NCC	-
Hong Kong	ISO/IEC 17025	OFCA	-
Australia		RCM	-
India		WPC	-
Thailand		NTC	-
Singapore		IDA	_

Note:

- 1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.
- 2. ISED Canada Registration No.: 7760A

B.TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of	Notify body number
TUV Rheinland	
Intertek	
TUV SUD	Optional.
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd.	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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2. Revision History

Test report #	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS18S07117356- 2W	2018-07-06	2018-08-14 to 2018-08-30	2018-08-31	Original	-	Valid

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4 General Information

4.1 General Description of E.U.T

Product: Wireless WiFi Smart Speaker

Model(s).: B9/800, KYGO B9 800

Model difference: Only the model name and color are different. The model KYGO B9 800

is the tested sample.

Operation Frequency: 802.11b/g/n HT20: 2412MHz ~ 2462MHz

802.11n HT40: 2422MHz~2452MHz

BLE: 2402-2480MHz

RF output power Wifi: 16.49dBm

BLE: 4.18dBm

Antenna installation: Integrated Antenna

Antenna Gain: 4.63dBi

Type of modulation: IEEE 802.11b (CCK/QPSK/BPSK,11Mbps max.)

IEEE 802.11g (BPSK/QPSK/16QAM/64QAM,54Mbps max.)
IEEE 802.11n (BPSK/QPSK/16QAM/64QAM,HT20:72Mbps max.,

HT40:150Mbps max.)

BLE: GFSK

4.2 Details of E.U.T

Input: AC 100-240V~, 50/60Hz 0.45A

Output: 5Vdc, 2.1A

4.3 Channel List

Ratings

WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

BLE:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

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4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
Maximum Peak Output Power	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
Power Spectral Density	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
	802.11b	11 Mbps	1/11	TX
	802.11g	54 Mbps	1/11	TX
Frequency Range	802.11n HT20	108 Mbps	1/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
Transmitter Spurious Emissions	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

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5 Equipment Used during Test

5.1 Equipments List

	5.1 Equipments List						
Condu	cted Emissions				Loot Calibration	Calibratian	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date	
1.	EMI Test Receiver	R&S	ESCI	100947	2017-09-12	2018-09-11	
2.	LISN	R&S	ENV216	100115	2017-09-12	2018-09-11	
3.	Cable	Тор	TYPE16(3.5M)	-	2017-09-12	2018-09-11	
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date	
1	Spectrum Analyzer	R&S	FSP30	100091	2018-04-29	2019-04-28	
2	Broad-band Horn Antenna(1-18GHz)	SCHWARZBECK	BBHA 9120 D	667	2018-04-29	2019-04-28	
3	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2018-04-29	2019-04-28	
4	Coaxial Cable (above 1GHz)	Тор	1GHz-18GHz	EW02014-7	2018-04-29	2019-04-28	
5	Spectrum Analyzer	R&S	FSP40	100501	2017-10-20	2018-10-19	
6	Broad-band Horn Antenna(18-40GHz)	SCHWARZBECK	BBHA 9170	BBHA917065 1	2017-10-25	2018-10-24	
7	Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	100472	2017-10-25	2018-10-24	
8	Cable	Тор	18-40GHz	-	2017-10-25	2018-10-24	
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions				
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date	
1	Test Receiver	R&S	ESCI	101296	2018-04-29	2019-04-28	
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-29	2019-04-28	
3	Active Loop Antenna	Com-power	AL-130R	10160007	2018-04-17	2019-04-16	
4	Amplifier	ANRITSU	MH648A	M43381	2018-04-29	2019-04-28	
5	Cable	HUBER+SUHNER	CBL2	525178	2018-04-29	2019-04-28	
6	Coaxial Cable (below 1GHz)	Тор	TYPE16 (13M)	-	2017-09-12	2018-09-11	
RF Co	nducted Testing						

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSL6	100959	2017-09-12	2018-09-11
2	Coaxial Cable	Тор	10Hz-30GHz	-	2017-09-12	2018-09-11
3	Antenna Connector*	Realacc	45RSm	-	2017-09-12	2018-09-11
4	DC Block	Gwave	GDCB-3G-N- SMA	140307001	2017-09-12	2018-09-11

[&]quot;*": The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
	± 5.03 dB (30M~1000MHz)
Radiated Spurious Emissions test	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guang dong, China.

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6 Test Summary

Test Items	Test Requirement	Result
	15.247	
Spurious Radiated Emissions	15.205(a)	С
	15.209(a)	
Conducted Emissions	15.207(a)	С
Conducted Spurious Emissions	15.247	С
Bandwidth	15.247(a)(2)	С
Maximum Peak Output Power	15.247(b)(3),(4)	С
Power Spectral Density	15.247(e)	С
Band Edge	15.247(d)	С
Antenna Requirement	15.203	С
Maximum Permissible Exposure	1.1307(b)(1)	
(Exposure of Humans to RF Fields)	1.1307(0)(1)	С
Note: C=Compliance; NC=Not Compliance;	NT=Not Tested; N/A=N	ot Applicable.

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7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: 66-56 dB_µV between 0.15MHz & 0.5MHz

 $56~dB\mu V$ between 0.5MHz & 5MHz $60~dB\mu V$ between 5MHz & 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

7.1 E.U.T. Operation

Operating Environment:

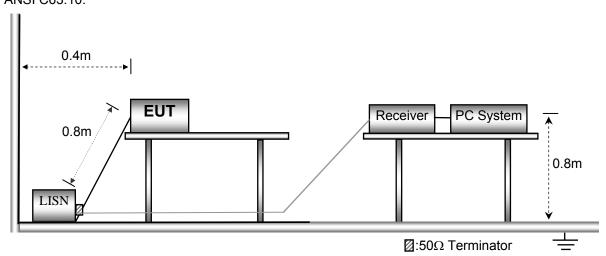
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation: Transmitting mode

The test was performed in Transmitting mode, Only the worst case 802.11b mode were record in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



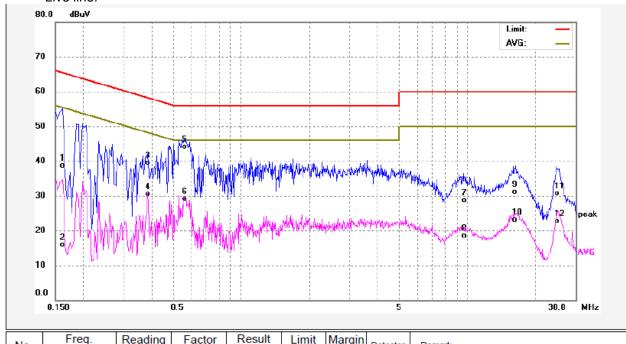
7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	28.47	10.28	38.75	65.36	-26.61	QP	
2	0.1620	5.60	10.28	15.88	55.36	-39.48	AVG	
3	0.3860	29.16	10.42	39.58	58.15	-18.57	QP	
4	0.3860	20.06	10.42	30.48	48.15	-17.67	AVG	
5	0.5660	33.72	10.47	44.19	56.00	-11.81	QP	
6	0.5660	18.57	10.47	29.04	46.00	-16.96	AVG	
7	9.5900	17.43	11.20	28.63	60.00	-31.37	QP	
8	9.5900	7.24	11.20	18.44	50.00	-31.56	AVG	
9	16.3340	20.30	10.85	31.15	60.00	-28.85	QP	
10	16.3340	12.25	10.85	23.10	50.00	-26.90	AVG	
11	24.7780	20.21	10.52	30.73	60.00	-29.27	QP	
12	24.7780	12.09	10.52	22.61	50.00	-27.39	AVG	

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Neutral line:

9

10

11

12

16.1180

16.1180

24.9660

24.9660

17.58

10.12

20.25

11.69

10.85

10.85

10.51

10.51

28.43

20.97

30.76

22.20

60.00

50.00

60.00

50.00

-31.57

-29.03

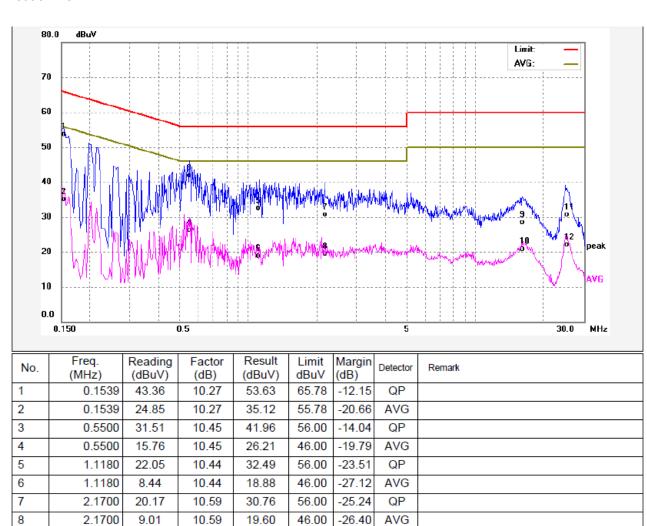
-29.24

-27.80

QP

AVG QP

AVG



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8 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS
Measurement Distance: 3m

Limit:

_	Field Strei	ngth	Field Strength Limit at	3m Measurement Dist
Frequency (MHz)	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾

8.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

EUT Operation:

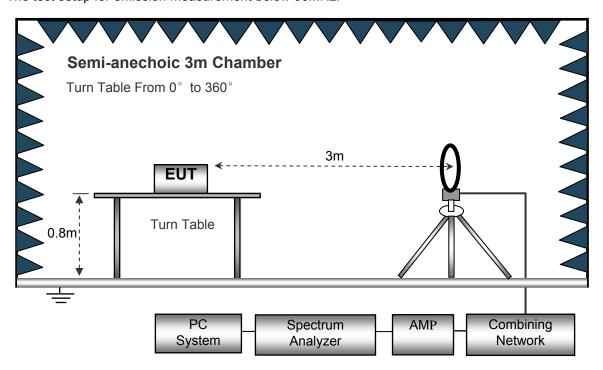
The test was performed in transmitting mode, the test data were shown in the report.

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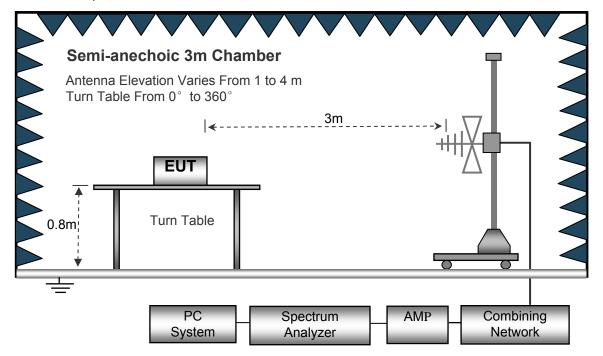
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.

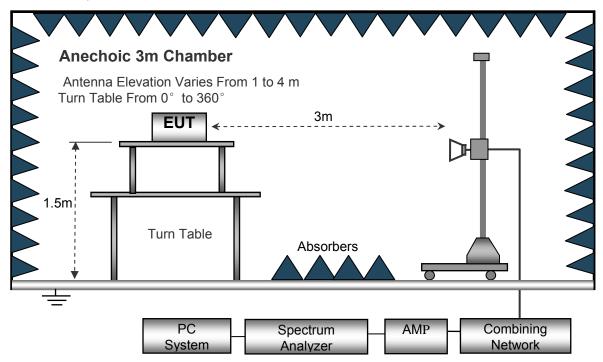


The test setup for emission measurement from 30 MHz to 1 GHz.



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The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz		
	Sweep Speed	. Auto
	IF Bandwidth	.10kHz
	Video Bandwidth	.10kHz
	Resolution Bandwidth	.10kHz
30MHz ~ 1GHz	Z	
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.100kHz
	Video Bandwidth	.300kHz
Above 1GHz		
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.3MHz
	Detector	.Ave.
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.10Hz

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8.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane; For above1GHz, the EUT is 1.5m above ground plane.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
- 8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Limit

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8.6 Summary of Test Results

Test Frequency: 19.2MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

F	Receiver	Detector	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205				
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin			
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
	11b: Low Channel 2412MHz											
197.89	49.12	QP	268	1.8	Н	-18.00	31.12	43.50	-12.38			
197.89	57.69	QP	301	1.5	V	-18.00	39.69	43.50	-3.81			
4824.00	54.30	PK	274	1.9	V	-1.06	53.24	74.00	-20.76			
4824.00	39.86	Ave	274	1.9	V	-1.06	38.80	54.00	-15.20			
7236.00	48.59	PK	233	1.4	Н	1.33	49.92	74.00	-24.08			
7236.00	38.86	Ave	233	1.4	Н	1.33	40.19	54.00	-13.81			
2346.57	45.48	PK	323	1.6	V	-13.19	32.29	74.00	-41.71			
2346.57	37.72	Ave	323	1.6	V	-13.19	24.53	54.00	-29.47			
2360.62	44.87	PK	126	1.9	Н	-13.14	31.73	74.00	-42.27			
2360.62	38.13	Ave	126	1.9	Н	-13.14	24.99	54.00	-29.01			
2487.43	42.05	PK	48	1.0	V	-13.08	28.97	74.00	-45.03			
2487.43	36.35	Ave	48	1.0	V	-13.08	23.27	54.00	-30.73			

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F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11b: Mid	dle Chan	nel 243	7MHz			
197.89	50.53	QP	268	1.8	Н	-18.00	32.53	43.50	-10.97
197.89	57.36	QP	301	1.5	V	-18.00	39.36	43.50	-4.14
4874.00	51.30	PK	168	1.3	V	-0.62	50.68	74.00	-23.32
4874.00	43.73	Ave	168	1.3	V	-0.62	43.11	54.00	-10.89
7311.00	43.84	PK	213	1.8	Н	2.21	46.05	74.00	-27.95
7311.00	41.58	Ave	213	1.8	Н	2.21	43.79	54.00	-10.21
2347.16	45.20	PK	349	1.7	V	-13.19	32.01	74.00	-41.99
2347.16	38.36	Ave	349	1.7	V	-13.19	25.17	54.00	-28.83
2366.24	42.88	PK	6	2.0	Н	-13.14	29.74	74.00	-44.26
2366.24	36.68	Ave	6	2.0	Н	-13.14	23.54	54.00	-30.46
2493.27	42.84	PK	131	1.9	V	-13.08	29.76	74.00	-44.24
2493.27	37.68	Ave	131	1.9	V	-13.08	24.60	54.00	-29.40

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F	Receiver	Detector	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11b: Hi	gh Chanr	nel 2462	MHz			
197.89	47.99	QP	268	1.8	Н	-18.00	29.99	43.50	-13.51
197.89	57.57	QP	301	1.5	V	-18.00	39.57	43.50	-3.93
4924.00	49.14	PK	106	1.6	V	-0.24	48.90	74.00	-25.10
4924.00	44.59	Ave	106	1.6	V	-0.24	44.35	54.00	-9.65
7386.00	46.19	PK	170	1.9	Н	2.84	49.03	74.00	-24.97
7386.00	42.78	Ave	170	1.9	Н	2.84	45.62	54.00	-8.38
2336.54	45.27	PK	56	1.4	V	-13.19	32.08	74.00	-41.92
2336.54	37.96	Ave	56	1.4	V	-13.19	24.77	54.00	-29.23
2361.88	42.89	PK	274	1.1	Н	-13.14	29.75	74.00	-44.25
2361.88	38.37	Ave	274	1.1	Н	-13.14	25.23	54.00	-28.77
2489.59	42.70	PK	218	1.5	V	-13.08	29.62	74.00	-44.38
2489.59	38.32	Ave	218	1.5	V	-13.08	25.24	54.00	-28.76

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	Receiver	Detector	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11g: Lo	w Channe	el 2412N	ИНz			
197.89	50.22	QP	268	1.8	Н	-18.00	32.22	43.50	-11.28
197.89	56.95	QP	301	1.5	V	-18.00	38.95	43.50	-4.55
4824.00	46.84	PK	130	1.2	V	-1.06	45.78	74.00	-28.22
4824.00	48.52	Ave	130	1.2	V	-1.06	47.46	54.00	-6.54
7236.00	48.40	PK	310	1.8	Н	1.33	49.73	74.00	-24.27
7236.00	44.84	Ave	310	1.8	Н	1.33	46.17	54.00	-7.83
2323.50	45.80	PK	1	1.9	V	-13.19	32.61	74.00	-41.39
2323.50	37.16	Ave	1	1.9	V	-13.19	23.97	54.00	-30.03
2380.06	43.33	PK	91	1.2	Н	-13.14	30.19	74.00	-43.81
2380.06	37.59	Ave	91	1.2	Н	-13.14	24.45	54.00	-29.55
2496.82	42.89	PK	200	1.8	V	-13.08	29.81	74.00	-44.19
2496.82	36.24	Ave	200	1.8	V	-13.08	23.16	54.00	-30.84

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F	Receiver	D 4 4	Turn	RX An	tenna	Corrected Factor	Corrected	FCC F 15.247/2	
Frequency	Reading	Detector	table Angle	Height	Polar		Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11g: Mid	dle Chan	nel 2437	7MHz			
197.89	48.34	QP	268	1.8	Н	-18.00	30.34	43.50	-13.16
197.89	57.59	QP	301	1.5	V	-18.00	39.59	43.50	-3.91
4874.00	50.93	PK	183	1.4	V	-0.62	50.31	74.00	-23.69
4874.00	45.33	Ave	183	1.4	V	-0.62	44.71	54.00	-9.29
7311.00	48.82	PK	318	1.1	Н	2.21	51.03	74.00	-22.97
7311.00	46.17	Ave	318	1.1	Н	2.21	48.38	54.00	-5.62
2329.48	45.53	PK	312	1.9	V	-13.19	32.34	74.00	-41.66
2329.48	37.66	Ave	312	1.9	V	-13.19	24.47	54.00	-29.53
2371.23	43.36	PK	195	1.1	Н	-13.14	30.22	74.00	-43.78
2371.23	37.26	Ave	195	1.1	Н	-13.14	24.12	54.00	-29.88
2488.29	43.91	PK	147	1.5	V	-13.08	30.83	74.00	-43.17
2488.29	37.76	Ave	147	1.5	V	-13.08	24.68	54.00	-29.32

Reference No.: WTS18S07117356-2W Page 23 of 59

	Receiver	Detector	Turn	RX An	tenna	Corrected Factor	Corrected	FCC Part 15.247/209/205				
Frequency	Reading	Detector	table Angle	Height	Polar		Amplitude	Limit	Margin			
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
	11g: High Channel 2462MHz											
197.89	48.37	QP	268	1.8	Н	-18.00	30.37	43.50	-13.13			
197.89	57.58	QP	301	1.5	V	-18.00	39.58	43.50	-3.92			
4924.00	52.89	PK	290	1.3	V	-0.24	52.65	74.00	-21.35			
4924.00	44.81	Ave	290	1.3	V	-0.24	44.57	54.00	-9.43			
7386.00	44.84	PK	285	1.9	Н	2.84	47.68	74.00	-26.32			
7386.00	41.86	Ave	285	1.9	Н	2.84	44.70	54.00	-9.30			
2325.81	45.04	PK	165	1.7	V	-13.19	31.85	74.00	-42.15			
2325.81	38.01	Ave	165	1.7	V	-13.19	24.82	54.00	-29.18			
2358.86	42.17	PK	226	1.7	Н	-13.14	29.03	74.00	-44.97			
2358.86	36.95	Ave	226	1.7	Н	-13.14	23.81	54.00	-30.19			
2494.65	42.66	PK	61	2.0	V	-13.08	29.58	74.00	-44.42			
2494.65	36.55	Ave	61	2.0	V	-13.08	23.47	54.00	-30.53			

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	Receiver	Datastan	Turn	RX An	tenna	Corrected Factor	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar		Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n20: Lo	w Chann	el 2412l	MHz			
197.89	48.68	QP	268	1.8	Н	-18.00	30.68	43.50	-12.82
197.89	56.31	QP	301	1.5	V	-18.00	38.31	43.50	-5.19
4824.00	46.86	PK	161	2.0	V	-1.06	45.80	74.00	-28.20
4824.00	42.29	Ave	161	2.0	V	-1.06	41.23	54.00	-12.77
7236.00	46.01	PK	297	1.9	Н	1.33	47.34	74.00	-26.66
7236.00	45.53	Ave	297	1.9	Н	1.33	46.86	54.00	-7.14
2348.92	46.26	PK	188	1.8	V	-13.19	33.07	74.00	-40.93
2348.92	39.30	Ave	188	1.8	V	-13.19	26.11	54.00	-27.89
2354.82	43.89	PK	311	1.1	Н	-13.14	30.75	74.00	-43.25
2354.82	38.84	Ave	311	1.1	Н	-13.14	25.70	54.00	-28.30
2493.70	42.02	PK	307	1.9	V	-13.08	28.94	74.00	-45.06
2493.70	37.69	Ave	307	1.9	V	-13.08	24.61	54.00	-29.39

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F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205				
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin			
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
	n20: Middle Channel 2437MHz											
197.89	49.46	QP	268	1.8	Н	-18.00	31.46	43.50	-12.04			
197.89	56.84	QP	301	1.5	V	-18.00	38.84	43.50	-2.66			
4874.00	49.86	PK	82	1.7	V	-0.62	49.24	74.00	-24.76			
4874.00	43.17	Ave	82	1.7	V	-0.62	42.55	54.00	-11.45			
7311.00	47.84	PK	61	1.4	Н	2.21	50.05	74.00	-23.95			
7311.00	39.48	Ave	61	1.4	Н	2.21	41.69	54.00	-12.31			
2331.48	46.86	PK	296	1.6	V	-13.19	33.67	74.00	-40.33			
2331.48	37.18	Ave	296	1.6	V	-13.19	23.99	54.00	-30.01			
2362.61	44.45	PK	266	1.1	Н	-13.14	31.31	74.00	-42.69			
2362.61	36.95	Ave	266	1.1	Н	-13.14	23.81	54.00	-30.19			
2485.91	43.99	PK	285	1.4	V	-13.08	30.91	74.00	-43.09			
2485.91	37.62	Ave	285	1.4	V	-13.08	24.54	54.00	-29.46			

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	Receiver	Datastan	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n20: Hiç	gh Chann	el 2462	MHz			
197.89	49.47	QP	268	1.8	Н	-18.00	31.47	43.50	-12.03
197.89	57.56	QP	301	1.5	V	-18.00	39.56	43.50	-3.94
4924.00	51.42	PK	112	1.1	V	-0.24	51.18	74.00	-22.82
4924.00	40.96	Ave	112	1.1	V	-0.24	40.72	54.00	-13.28
7386.00	50.58	PK	121	1.0	Н	2.84	53.42	74.00	-20.58
7386.00	45.44	Ave	121	1.0	Н	2.84	48.28	54.00	-5.72
2312.62	46.21	PK	111	1.4	V	-13.19	33.02	74.00	-40.98
2312.62	37.42	Ave	111	1.4	V	-13.19	24.23	54.00	-29.77
2359.63	42.70	PK	339	1.1	Н	-13.14	29.56	74.00	-44.44
2359.63	37.49	Ave	339	1.1	Н	-13.14	24.35	54.00	-29.65
2488.15	44.09	PK	144	1.4	V	-13.08	31.01	74.00	-42.99
2488.15	38.73	Ave	144	1.4	V	-13.08	25.65	54.00	-28.35

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Fraguanay	Receiver	Receiver Reading Detector	Turn	RX Antenna		Corrected	0	FCC Part 15.247/209/205		
Frequency	Reading		table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin	
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	n40: Low Channel 2422MHz									
197.89	50.17	QP	268	1.8	Н	-18.00	32.17	43.50	-11.33	
197.89	58.05	QP	301	1.5	V	-18.00	40.05	43.50	-3.45	
4844.00	45.40	PK	267	1.4	V	-1.06	44.34	74.00	-29.66	
4844.00	37.91	Ave	267	1.4	V	-1.06	36.85	54.00	-17.15	
7266.00	44.60	PK	117	1.3	Н	1.33	45.93	74.00	-28.07	
7266.00	40.89	Ave	117	1.3	Н	1.33	42.22	54.00	-11.78	
2314.19	45.94	PK	216	1.4	V	-13.19	32.75	74.00	-41.25	
2314.19	38.93	Ave	216	1.4	V	-13.19	25.74	54.00	-28.26	
2367.12	44.47	PK	185	2.0	Н	-13.14	31.33	74.00	-42.67	
2367.12	38.19	Ave	185	2.0	Н	-13.14	25.05	54.00	-28.95	
2493.79	44.20	PK	13	1.9	V	-13.08	31.12	74.00	-42.88	
2493.79	37.28	Ave	13	1.9	V	-13.08	24.20	54.00	-29.80	

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Fraguancy I is a second	Receiver	Receiver Reading Detector	Turn table Angle	RX Antenna		Corrected	Composto d	FCC Part 15.247/209/205	
	Reading			Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
n40: Middle Channel 2437MHz									
197.89	49.71	QP	268	1.8	Н	-18.00	31.71	43.50	-11.79
197.89	57.51	QP	301	1.5	V	-18.00	39.51	43.50	-3.99
4874.00	46.75	PK	17	1.0	V	-0.62	46.13	74.00	-27.87
4874.00	41.29	Ave	17	1.0	V	-0.62	40.67	54.00	-13.33
7311.00	37.96	PK	14	1.3	Н	2.21	40.17	74.00	-33.83
7311.00	36.86	Ave	14	1.3	Н	2.21	39.07	54.00	-14.93
2333.81	45.16	PK	58	1.8	V	-13.19	31.97	74.00	-42.03
2333.81	37.12	Ave	58	1.8	V	-13.19	23.93	54.00	-30.07
2389.85	42.67	PK	2	2.0	Н	-13.14	29.53	74.00	-44.47
2389.85	36.82	Ave	2	2.0	Н	-13.14	23.68	54.00	-30.32
2490.16	42.49	PK	82	1.5	V	-13.08	29.41	74.00	-44.59
2490.16	37.42	Ave	82	1.5	V	-13.08	24.34	54.00	-29.66

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Fraguana	Receiver	Receiver Reading Detector	Turn	RX Antenna		Corrected	0	FCC Part 15.247/209/205		
Frequency	Reading		table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin	
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	n40: High Channel 2452MHz									
197.89	48.72	QP	268	1.8	Н	-18.00	30.72	43.50	-12.78	
197.89	57.95	QP	301	1.5	V	-18.00	39.95	43.50	-3.55	
4904.00	48.92	PK	143	1.1	V	-0.24	48.68	74.00	-25.32	
4904.00	41.09	Ave	143	1.1	V	-0.24	40.85	54.00	-13.15	
7356.00	36.65	PK	12	1.2	Н	2.84	39.49	74.00	-34.51	
7356.00	39.18	Ave	12	1.2	Н	2.84	42.02	54.00	-11.98	
2339.03	45.73	PK	252	1.6	V	-13.19	32.54	74.00	-41.46	
2339.03	39.00	Ave	252	1.6	V	-13.19	25.81	54.00	-28.19	
2363.05	42.47	PK	356	1.3	Н	-13.14	29.33	74.00	-44.67	
2363.05	37.53	Ave	356	1.3	Н	-13.14	24.39	54.00	-29.61	
2487.02	43.50	PK	63	2.0	V	-13.08	30.42	74.00	-43.58	
2487.02	36.11	Ave	63	2.0	V	-13.08	23.03	54.00	-30.97	

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1	Receiver	eiver Detector	Turn table	RX Antenna		Correct	Corrected	Lineit	
	Reading	Detector	Angl e	Height	Polar	ed Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Av e)	Degr ee	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµ V/m)	(dB)
		В	LE-GFS	K Low Ch	nannel 2	402MHz			
197.89	50.33	QP	268	1.8	Н	-18.00	32.33	43.50	-11.17
197.89	56.91	QP	301	1.5	V	-18.00	38.91	43.50	-4.59
4804.00	45.50	PK	188	1.3	V	-1.06	44.44	74.00	-29.56
4804.00	42.65	Ave	188	1.3	V	-1.06	41.59	54.00	-12.41
7206.00	39.39	PK	295	1.4	Н	1.33	40.72	74.00	-33.28
7206.00	34.23	Ave	295	1.4	Н	1.33	35.56	54.00	-18.44
2335.51	46.79	PK	115	1.2	V	-13.19	33.60	74.00	-40.40
2335.51	38.67	Ave	115	1.2	V	-13.19	25.48	54.00	-28.52
2358.19	44.50	PK	101	1.2	Н	-13.14	31.36	74.00	-42.64
2358.19	37.63	Ave	101	1.2	Н	-13.14	24.49	54.00	-29.51
2498.55	43.53	PK	252	1.3	V	-13.08	30.45	74.00	-43.55
2498.55	36.07	Ave	252	1.3	V	-13.08	22.99	54.00	-31.01

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	Receiver	eceiver Detector	Turn table	RX Antenna		Correct	Corrected	Linait	
	Reading	Detector	Angl e	Height	Polar	ed Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Av e)	Degr ee	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµ V/m)	(dB)
		В	LE-GFS	K Low Ch	nannel 2	440MHz			
197.89	47.66	QP	268	1.8	Н	-18.00	29.66	43.50	-13.84
197.89	55.68	QP	301	1.5	V	-18.00	37.68	43.50	-5.82
4880.00	46.57	PK	330	1.1	V	-0.62	45.95	74.00	-28.05
4880.00	43.52	Ave	330	1.1	V	-0.62	42.90	54.00	-11.10
7320.00	38.61	PK	287	1.2	Н	2.21	40.82	74.00	-33.18
7320.00	33.09	Ave	287	1.2	Н	2.21	35.30	54.00	-18.70
2310.21	45.79	PK	322	1.7	V	-13.19	32.60	74.00	-41.40
2310.21	37.94	Ave	322	1.7	V	-13.19	24.75	54.00	-29.25
2382.29	42.47	PK	289	1.4	Н	-13.14	29.33	74.00	-44.67
2382.29	37.18	Ave	289	1.4	Н	-13.14	24.04	54.00	-29.96
2499.14	42.48	PK	330	1.6	V	-13.08	29.40	74.00	-44.60
2499.14	36.05	Ave	330	1.6	V	-13.08	22.97	54.00	-31.03

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	Receiver	Dotoctor	Turn table	RX Antenna		Correct	Corrected	Linait	N4
	Reading		Angl e	Height	Polar	ed Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Av e)	Degr ee	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµ V/m)	(dB)
		В	LE-GFS	K Low Ch	nannel 2	480MHz			
197.89	48.27	QP	268	1.8	Н	-18.00	30.27	43.50	-13.23
197.89	57.20	QP	301	1.5	V	-18.00	39.20	43.50	-4.30
4960.00	46.92	PK	184	1.8	V	-0.24	46.68	74.00	-27.32
4960.00	45.54	Ave	184	1.8	V	-0.24	45.30	54.00	-8.70
7440.00	37.76	PK	67	1.8	Н	2.84	40.60	74.00	-33.40
7440.00	33.18	Ave	67	1.8	Н	2.84	36.02	54.00	-17.98
2337.65	46.80	PK	200	1.6	V	-13.19	33.61	74.00	-40.39
2337.65	39.14	Ave	200	1.6	V	-13.19	25.95	54.00	-28.05
2362.42	43.90	PK	176	1.3	Н	-13.14	30.76	74.00	-43.24
2362.42	37.16	Ave	176	1.3	Н	-13.14	24.02	54.00	-29.98
2486.99	42.28	PK	2	1.6	V	-13.08	29.20	74.00	-44.80
2486.99	37.28	Ave	2	1.6	V	-13.08	24.20	54.00	-29.80

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not recorded.

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9 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: 558074 D01 15.247 Meas Guidance v05

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the

frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

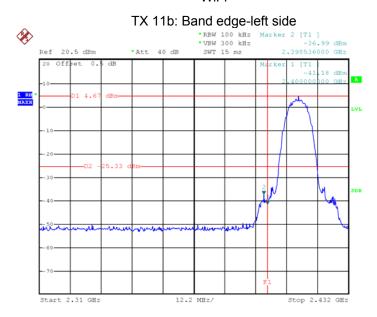
9.1 Test Produce

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

9.2 Test Result

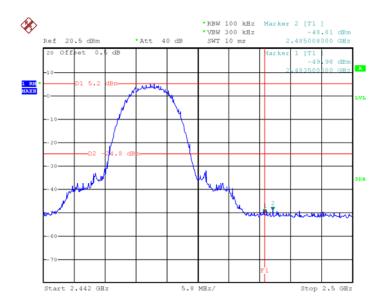
Test result plots shown as follows:

WiFi

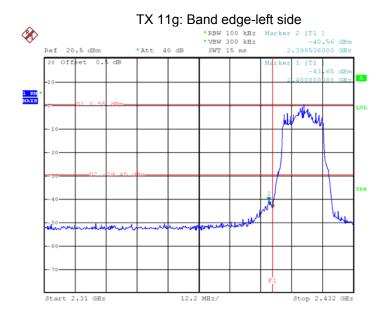


Date: 7.AUG.2018 01:30:11

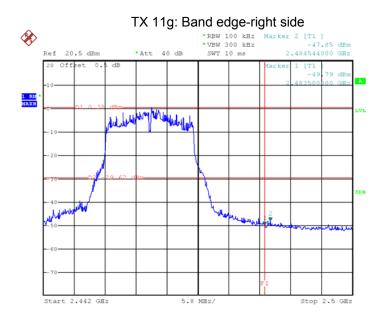
TX 11b: Band edge-right side

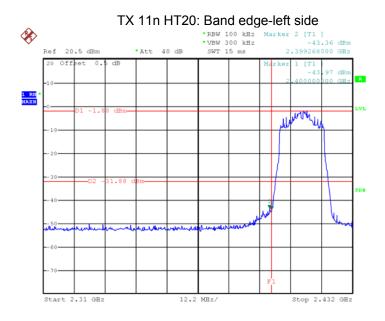


Date: 7.AUG.2018 01:42:42

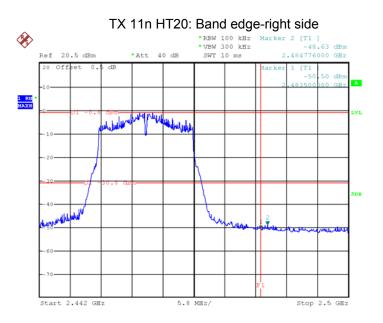


Date: 7.AUG.2018 01:32:16

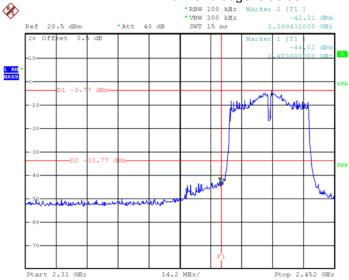




Date: 7.AUG.2018 01:33:39

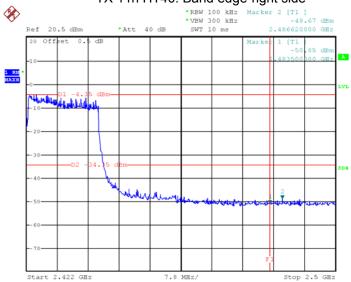






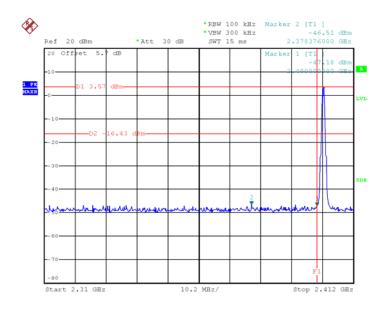
Date: 7.AUG.2018 01:35:07

TX 11n HT40: Band edge-right side



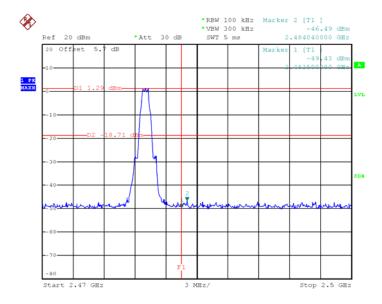
Date: 7.AUG.2018 01:38:06

BLE Band edge-left side



Date: 8.AUG.2018 08:02:45

Band edge-right side



Date: 8.AUG.2018 08:01:36

Reference No.: WTS18S07117356-2W Page 39 of 59

10 Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: 558074 D01 15.247 Meas Guidance v05

10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

10.2 Test Result:

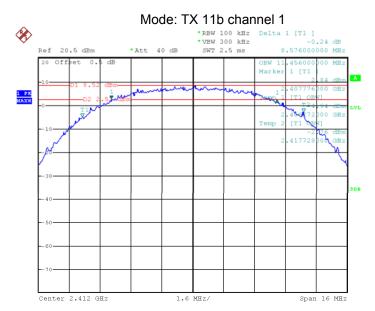
WiFi:

Operation mode	6dB Bandwidth (MHz)		99% Bandwidth (MHz)			
	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
TX 11b	8.576	8.512	8.576	11.456	11.424	11.488
	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
TX 11g	15.250	15.950	15.650	16.250	16.400	16.300
	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
TX 11n HT20	16.686	17.712	16.956	17.550	17.712	17.604
TX 11n HT40	Channel 3	Channel 6	Channel 9	Channel 3	Channel 6	Channel 9
	36.190	36.190	36.520	36.380	36.450	36.080

BLE:

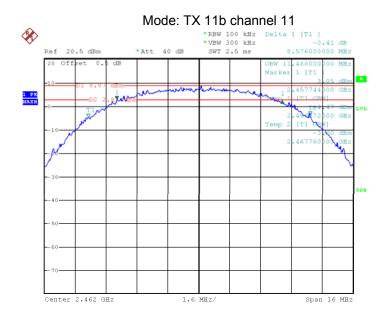
Operation mode	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low channel	0.726	1.092
Middle channel	0.726	1.092
High channel	0.726	1.092

WiFi:

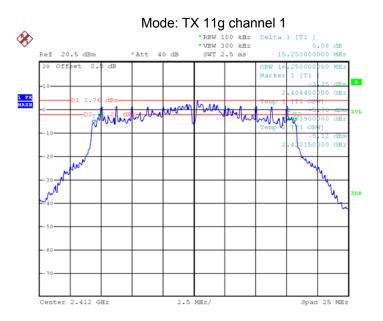


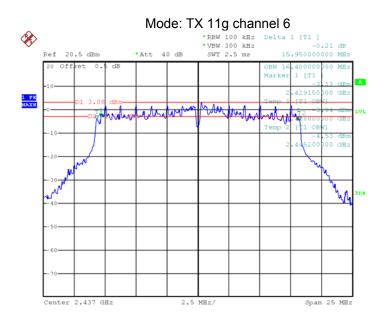
Date: 6.AUG.2018 22:50:57



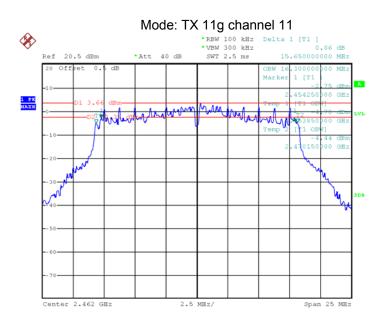


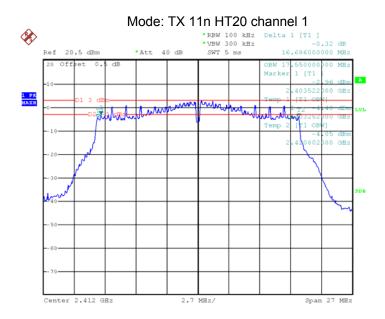
Date: 6.AUG.2018 21:29:18



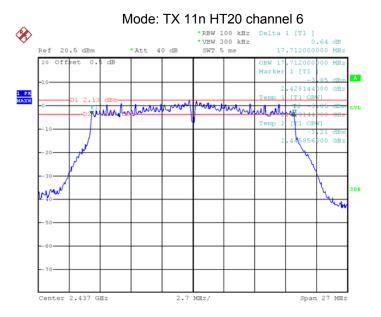


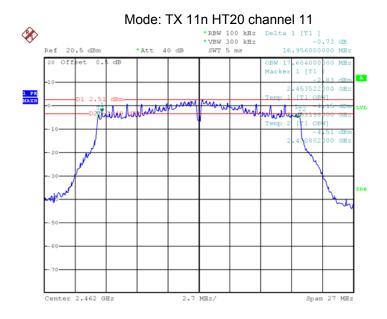
Date: 7.AUG.2018 01:11:39



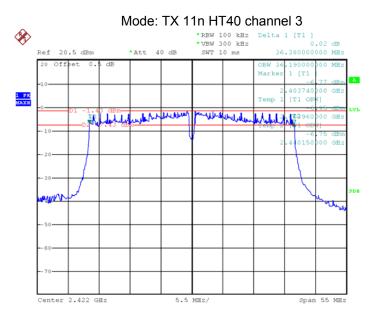


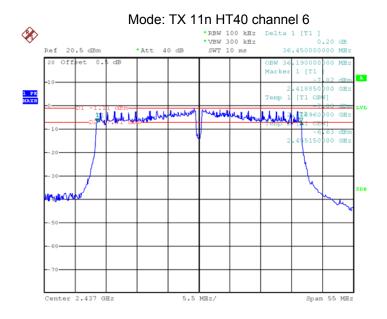
Date: 6.AUG.2018 22:19:53



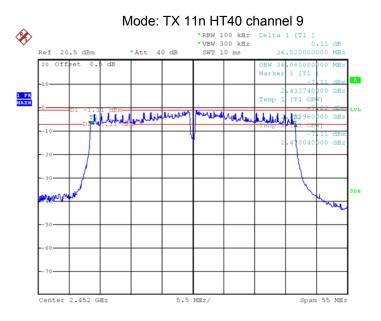


Date: 6.AUG.2018 22:24:46



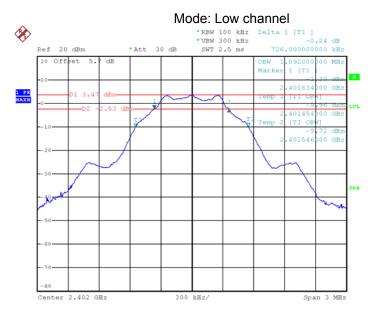


Date: 6.AUG.2018 22:34:46

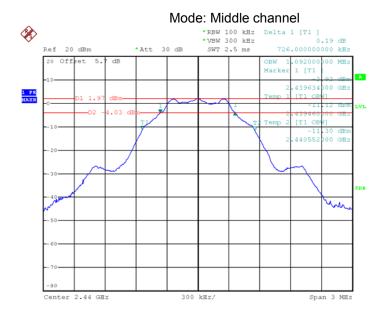


Date: 6.AUG.2018 22:36:37

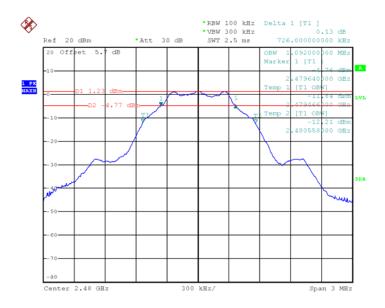
BLE:



Date: 8.AUG.2018 07:59:04



Mode: High channel



Date: 8.AUG.2018 08:00:11

Reference No.: WTS18S07117356-2W Page 48 of 59

11 Maximum Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 15.247 Meas Guidance v05

11.1 Test Procedure:

558074 D01 DTS Meas Guidance V04

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.2 Test Result:

WiFi

Test mode :TX 11b		
Maximum Average Output Pow	er (dBm)	
2437MHz	2462MHz	
16.28	16.28 16.49	
Limit: 1W/30dBm		
Test mode :TX 11g		
Maximum Average Output Power	(dBm)	
2437MHz	2462MHz	
16.17	16.02	
Limit: 1W/30dBm		
Test mode :TX 11n HT20		
Maximum Average Output Pow	er (dBm)	
2437MHz	2462MHz	
15.97	16.00	
Limit: 1W/30dBm		
Test mode :TX 11n HT40		
Maximum Average Output Pow	er (dBm)	
2437MHz 2452MHz		
15.68 15.62		
Limit: 1W/30dBm		
	Maximum Average Output Power 2437MHz 16.28 Limit: 1W/30dBm Test mode: TX 11g Maximum Average Output Power 2437MHz 16.17 Limit: 1W/30dBm Test mode: TX 11n HT20 Maximum Average Output Power 2437MHz 15.97 Limit: 1W/30dBm Test mode: TX 11n HT40 Maximum Average Output Power 2437MHz 15.68	

BLE:

Maximum Peak Output Power (dBm)			
Low channel	Middle channel	High channel	
4.18	2.67	1.98	
Limit: 1W/30dBm			

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12 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 15.247 Meas Guidance v05

12.1 Test Procedure:

558074 D01 DTS Meas Guidance V04

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

12.2 Test Result:

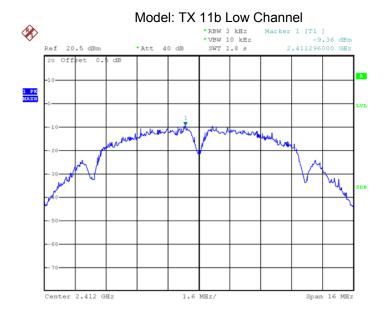
WiFi

V 11 1		
	Test mode :TX 11b	
	Power Spectral (dBm per 3kl	Hz)
2412MHz	2437MHz 2462MHz	
-9.36	-10.02 -9.93	
	Limit: 8dBm per 3kHz	
	Test mode :TX 11g	
	Power Spectral (dBm per 3kl	Hz)
2412MHz	2437MHz	2462MHz
-8.88	-9.62	-9.23
	Limit: 8dBm per 3kHz	
	Test mode :TX 11n HT20	
	Power Spectral (dBm per 3kl	Hz)
2412MHz	2437MHz	2462MHz
-8.52	-9.15 -7.67	
	Limit: 8dBm per 3kHz	
	Test mode :TX 11n HT40	
	Power Spectral (dBm per 3kHz	2)
2422MHz	2437MHz 2452MHz	
-14.43	-13.23	-15.59
	Limit: 8dBm per 3kHz	

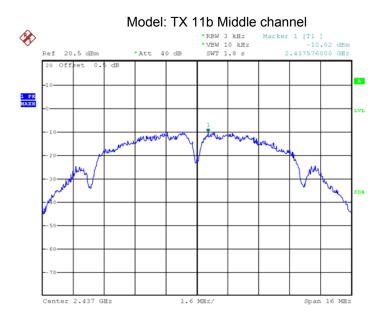
BLE

Power Spectral Density(dBm)				
Low channel	Middle channel	High channel		
-10.18	-11.63	-12.17		
Limit: 8dBm per 3kHz				

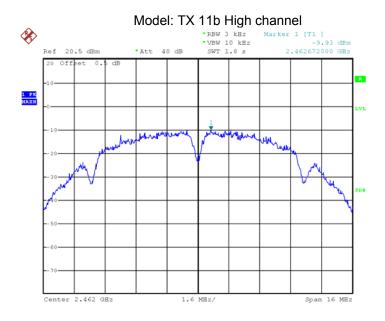
Reference No.: WTS18S07117356-2W Page 50 of 59



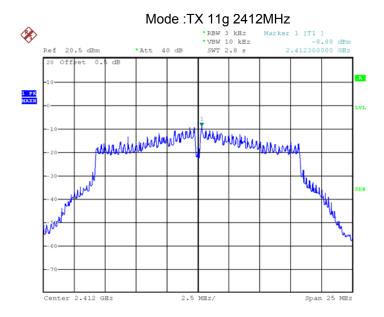
Date: 21.AUG.2018 20:37:24

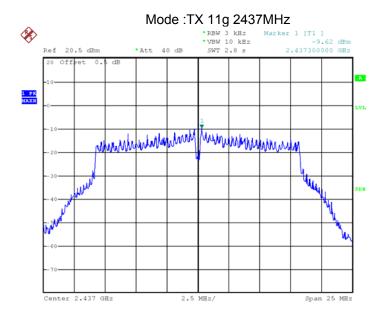


Date: 21.AUG.2018 20:39:57

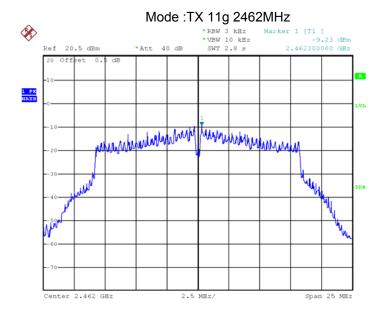


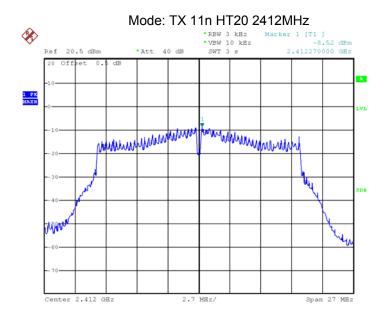
Date: 21.AUG.2018 20:41:20



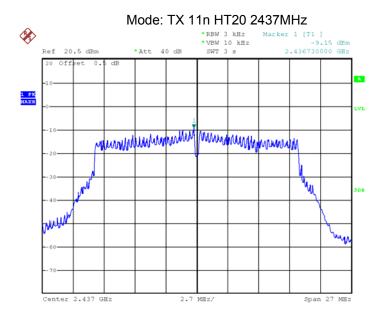


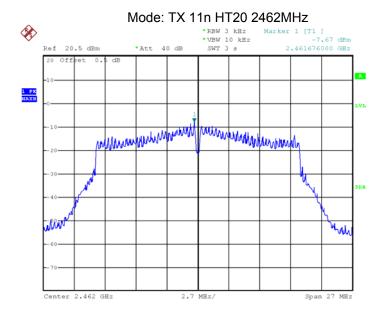
Date: 21.AUG.2018 20:44:36



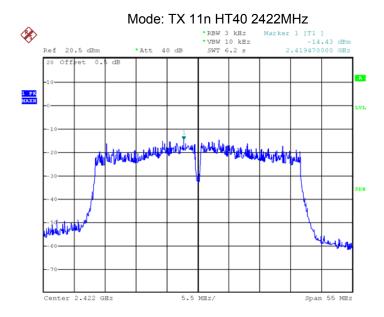


Date: 21.AUG.2018 20:49:37

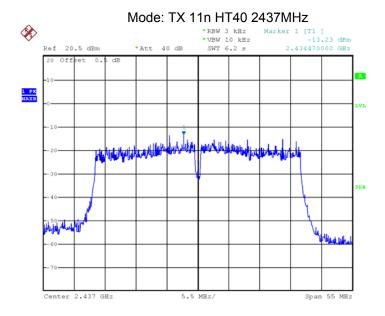




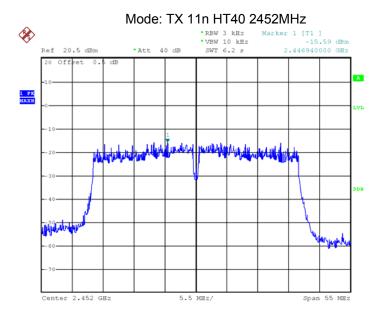
Date: 21.AUG.2018 20:51:58



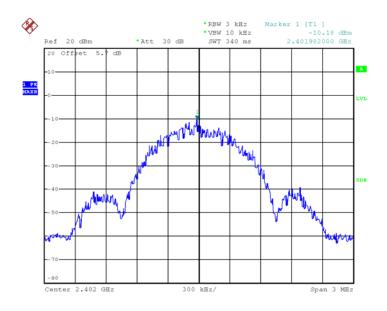
Date: 21.AUG.2018 20:53:53



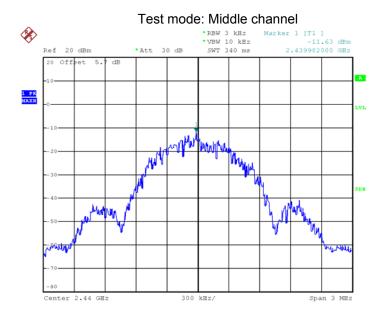
Date: 21.AUG.2018 20:54:57



BLE:
Test mode: Low channel

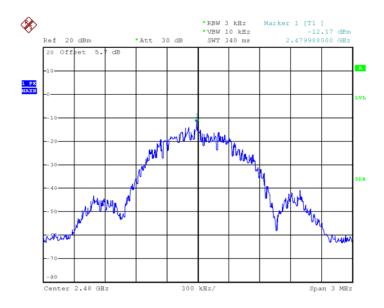


Date: 8.AUG.2018 07:55:26



Date: 8.AUG.2018 07:54:49

Test mode: High channel



Date: 8.AUG.2018 07:54:17

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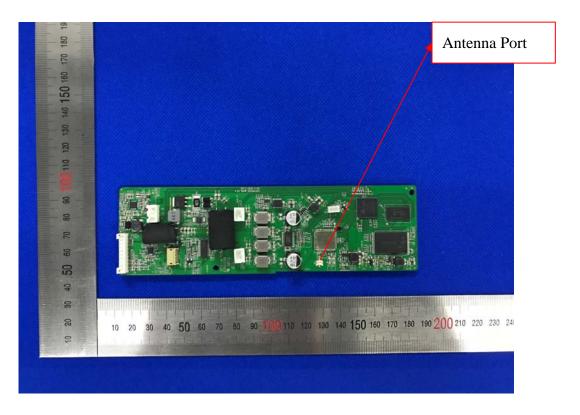
13 Antenna Requirement

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Result:

The EUT have one Integrated Antenna, meets the requirements of FCC 15.203.



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14 FCC ID: 2ANOX69092 RF Exposure Report

Note: Please refer to RF Exposure Report: WTS18S07117356-4W.

15 Photographs - Model KYGO B9 800 Test Setup Photos

Note: Please refer to Photos: KYGO B9 800_Tsup Photos.

16 Photographs - Constructional Details

16.1 Model KYGO B9 800 - External Photos

Note: Please refer to Photos: KYGO B9 800_Ext Photos.

16.2Model KYGO B9 800 - Internal Photos

Note: Please refer to Photos: KYGO B9 800_Int Photos.

====End of Report=====