

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC155982

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FCC Radio Test Report FCC ID: 2ABES-KR0319

Original Grant

Report No. TB-FCC155982

Pathway Innovations and Technologies, Inc. **Applicant**

Equipment Under Test (EUT)

EUT Name Pilot

Model No. KR0319

Series Model No. KR0318, Pilot, Pilot2, Pilot3, Pilot4

Brand Name HoverCam

Receipt Date 2017-06-23

2017-06-24 to 2017-07-05 **Test Date**

Issue Date 2017-07-06

Standards FCC Part 15, Subpart C (15.247:2016)

Test Method ANSI C63.10: 2013

PASS Conclusions

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

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Approved&

Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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1. General Information about EUT

1.1 Client Information

Applicant: Pathway Innovations and Technologies, Inc.

Address : 10211 Pacific Mesa Blvd., #412, San Diego, CA 92121, USA

Manufacturer: ShenZhen KerunVisual Technology Co., Ltd.

Address : 6/F, Building 2, Zone S2, 1213 Liuxian Blvd Honghualing Industrial

Park Nanshan District, Shenzhen City, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	÷	Pilot			
Models No.		KR0319, KR0318, Pilo	KR0319, KR0318, Pilot, Pilot2, Pilot3, Pilot4		
Model Difference	-	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.			
4000		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz		
	N. Control	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):9 channels see note(3)		
Product		RF Output Power:	802.11b: 8.96 dBm 802.11g: 8.87dBm 802.11n (HT20): 8.63 dBm 802.11n (HT40): 8.59 dBm		
Description	A LOSA	Antenna Gain:	1 dBi Integral Antenna		
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)		
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps		
Power Rating	:	Input: AC 100~240V, 5	Input: AC 100~240V, 50/60Hz, 0.5A.		
Connecting I/O Port(S)	i	Please refer to the User's Manual			

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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(3) Channel List:

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

Note:CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)

- (4) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

TX Mode

EUT

1.4 Description of Support Units

The EUT has been test as an independent unit.



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1.5 Description of Test Mode

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 follow was evaluated respectively.

For Conducted Test					
Final Test Mode Description					
Mode 1 Charging with TX B Mode					

For Radiated Test Final Test Mode Description					
Mode 3	TX Mode G Mode Channel 01/06/11				
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11				
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09				

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version		N/A	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	WY STATE OF THE ST
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	.4.00 dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	. 4. 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dadioted Emission	Level Accuracy:	. 4 20 dD
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1						
Standa	rd Section	Test Item		Damani		
FCC	IC	rest item	Judgment	Remark		
15.203	1	Antenna Requirement	PASS	N/A		
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A		
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A		
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A		
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A		
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A		
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A		
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A		

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	onducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
		MLZTOOA			



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

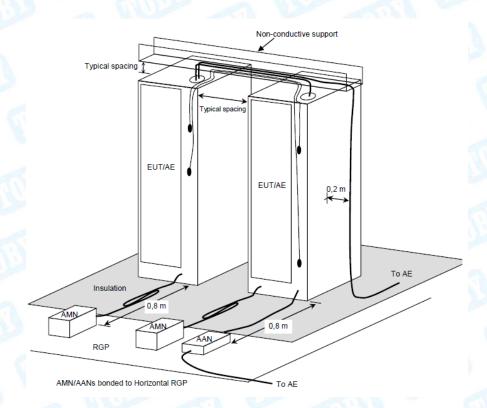
Conducted Emission Test Limit

THE PROPERTY OF THE PARTY OF TH	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup





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4.3 Test Procedure

The EUT was placed 10cm from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.



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UT:	Pilot		Model	Name :		KR0319	
emperature:	25 ℃	CON'A	Relativ	e Humidi	ty:	55%	ABO
est Voltage:	AC 120V	/60Hz	1000		Cal	TIES	
Terminal:	Line		Alle		16		
Test Mode:	Charging	with TX B M	lode	MILLO		0 N	N. D.
Remark:	Only wors	se case is re	ported			33	
80.0 dBuV							
						QP: AVG:	_
	-						
X	X						
a www.	daman gard	popt filter habit flystlyddiae frast	popodo in the propriet of south	MA JAMAN WAY			X.
30	March June	photo and the strangence of the	Markey Control of the Control	my V	"Mary market a	A. A. MANAGARA	pea
	*			Mary 1	When when		Alak mad
					Congression	Manus - Andidahila	"\AVI
0.150	0.5		(MHz)	5			30.000
0.150	R	_	Correct M	easure-			30.000
0.150 No. Mk. F	Req. I	Level	Correct M Factor	easure- ment	Limit	Over	
0.150 No. Mk. F	Refreq. I	Level dBu∨	Correct M Factor	easure- ment dBuV	dBu∀	dB	Detector
0.150 No. Mk. F 1 0.1	Req. I	dBuV 36.74	Correct M Factor dB 9.58	easure- ment dBuV 46.32	dBu∨ 64.96	dB -18.64	Detector
0.150 No. Mk. F 1 0.1 2 0.1	Ri Freq. L MHz 1700 3	Level dBuV 36.74 28.71	Correct M Factor dB 9.58 4	easure- ment dBuV 46.32	dBuV 64.96 54.96	dB -18.64 -16.67	Detector
0.150 No. Mk. F 1 0.1 2 0.1	Ri Freq. L MHz 1700 3	dBuV 36.74	Correct M Factor dB 9.58 4	easure- ment dBuV 46.32	dBu∨ 64.96	dB -18.64 -16.67	Detector
0.150 No. Mk. F 1 0.7 2 0.7 3 0.5	Right	Level dBuV 36.74 28.71	Orrect M Factor dB 9.58 4 9.58 3	easure- ment dBuV 46.32	dBu√ 64.96 54.96 56.00	dB -18.64 -16.67	Detector QP AVC
0.150 No. Mk. F 1 0.7 2 0.7 3 0.8 4 * 0.8	Req. I MHz 1700 3 1700 2 5540 3	Level dBuV 36.74 28.71 36.87	9.58 4 9.60 4	easure- ment dBuV 46.32 38.29 46.47	dBuV 64.96 54.96 56.00 46.00	dB -18.64 -16.67 -9.53	Detector QP AVG
0.150 No. Mk. F 1 0.7 2 0.7 3 0.5 4 * 0.5 5 1.0	Right	Level dBuV 36.74 28.71 36.87 28.77	9.58 4 9.58 3 9.60 4 9.60 3	easure- ment dBuV 46.32 38.29 46.47	dBuV 64.96 54.96 56.00 46.00 56.00	dB -18.64 -16.67 -9.53 -7.63	Detector QP AVO
0.150 No. Mk. F 1 0.7 2 0.7 3 0.5 4 * 0.5 5 1.0 6 1.0	Right	Level dBuV 36.74 28.71 36.87 28.77 29.65	9.58 4 9.58 3 9.60 3 9.60 3	easure- ment dBuV 46.32 88.29 46.47 88.37	dBuV 64.96 54.96 56.00 46.00 46.00	dB -18.64 -16.67 -9.53 -7.63 -16.75	QP AVO QP QP
No. Mk. F 1 0.7 2 0.7 3 0.8 4 * 0.8 5 1.0 6 1.0 7 2.0	Right	Level dBuV 36.74 28.71 36.87 29.65 23.41	9.58 4 9.58 3 9.60 4 9.60 3 9.60 3	easure- ment dBuV 46.32 38.29 46.47 38.37 39.25	dBuV 64.96 54.96 56.00 46.00 46.00 56.00	dB -18.64 -16.67 -9.53 -7.63 -16.75 -12.99	QP AVG QP AVG
0.150 No. Mk. F 1 0.7 2 0.7 3 0.8 4 * 0.8 5 1.0 6 1.0 7 2.0 8 2.0	Right	Level dBuV 36.74 28.71 36.87 29.65 23.41 30.05	9.58 4 9.58 3 9.60 4 9.60 3 9.60 3 9.60 3 9.61 3	easure- ment dBuV 46.32 38.29 46.47 38.37 39.25 33.01	dBuV 64.96 54.96 56.00 46.00 46.00 46.00	dB -18.64 -16.67 -9.53 -7.63 -16.75 -12.99 -16.34	QP AVG QP AVG QP AVG
0.150 No. Mk. F 1 0.7 2 0.7 3 0.8 4 * 0.8 5 1.0 6 1.0 7 2.0 8 2.0 9 3.7	Right Freq. Right	Level dBuV 36.74 28.71 36.87 28.77 29.65 23.41 30.05 22.29 30.91	9.58 4 9.58 2 9.58 3 9.60 3 9.60 3 9.60 3 9.60 3 9.61 3 9.61 3	easure- ment dBuV 46.32 38.29 46.47 38.37 39.25 33.01 39.66 31.90	dBuV 64.96 54.96 56.00 46.00 56.00 46.00 56.00	dB -18.64 -16.67 -9.53 -7.63 -16.75 -12.99 -16.34 -14.10 -15.42	QP AVO QP AVO QP AVO QP
0.150 No. Mk. F 1 0.7 2 0.7 3 0.8 4 * 0.8 5 1.0 6 1.0 7 2.0 8 2.0 9 3.7 10 3.7	Right	Level dBuV 36.74 28.71 36.87 29.65 23.41 30.05 22.29 30.91 22.51	9.58 4 9.58 2 9.58 3 9.60 3 9.60 3 9.60 3 9.60 3 9.61 3 9.61 3 9.67 4	easure- ment dBuV 46.32 38.29 46.47 38.37 39.25 33.01 89.66	dBuV 64.96 54.96 56.00 46.00 56.00 46.00 56.00 46.00	dB -18.64 -16.67 -9.53 -7.63 -16.75 -12.99 -16.34 -14.10	QP AVG QP AVG QP AVG



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EUT:	Pilot	Мо	del Name :	KR0319	1013
Temperature:	25 ℃	Re	lative Humidity	y: 55%	Millian
Test Voltage:	AC 120V/60Hz	-		Calling	
Terminal:	Neutral	Alth		6300	
Test Mode:	Charging with TX I	B Mode	WILLIAM STATE	- N	N. Carrie
Remark:	Only worse case is	reported		m:35	
80.0 dBuV					
-20 0.150	0.5	(MHz)	5	QP: AVG:	peak AVG
No. Mk. F	Reading Freq. Level	Correct Factor	Measure- ment Li	mit Over	
	MHz dBuV	dB	dBuV d	BuV dB	Detector
1 0.	1660 38.21	9.64	47.85 65	5.15 -17.30	QP
2 0.	1660 34.50	9.64	44.14 55	5.15 -11.01	AVG
3 0.	5540 33.70	9.58	43.28 56	6.00 -12.72	QP
4 * 0.	5540 26.25	9.58	35.83 46	6.00 -10.17	AVG
5 1.	0460 29.04	9.59	38.63 56	6.00 -17.37	QP
6 1.	0460 21.84	9.59	31.43 46	6.00 -14.57	AVG
7 1.	9899 30.41	9.61	40.02 56	6.00 -15.98	QP
8 1.	9899 22.17	9.61	31.78 46	3.00 -14.22	AVG
9 3	2540 30.83	9.68	40.51 56	3.00 -15.49	QP
10 3	2540 21.83	9.68	31.51 46	5.00 -14.49	AVG
11 24.	5100 26.54	10.70	37.24 60	0.00 -22.76	QP
12 24.	5100 24.04	10.70	34.74 50	0.00 -15.26	AVG
Emission Levels	= Read Level+ Corr	ect Factor			



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EUT:	Pilot			Model Name :		KR0319	
Temperature:	25 ℃		0	Relative Humid	ity:	55%	A BULL
Test Voltage:	AC 240V	//60Hz	100	10	TUE:	1,30	
Terminal:	Line		MAGE		63		THE STATE OF THE S
Test Mode:	Charging	with TX B	Mode	MILES		3 W	1 les
Remark:	Only wor	se case is	reported			13	
80.0 dBuV							
						QP: AVG:	
30		And the state of t	**************************************	MANA MANANA	warenensk d		peak
-20 0.150 No. Mk.	0.5 Freq.	Reading Level	(MHz) Correct Factor	Measure- ment Li	mit	Over	30.000
	MHz	dBu∀	dB	dBuV dl	BuV	dB	Detector
1 0	.2340	40.52	9.58	50.10 62	2.30	-12.20	QP
2 0	.2340	25.81	9.58	35.39 52	2.30	-16.91	AVG
3 0	.4340	37.72	9.60	47.32 57	7.18	-9.86	QP
4 * 0	.4340	31.97	9.60	41.57 47	'.18	-5.61	AVG
5 0	.5740	35.52	9.60	45.12 56	6.00	-10.88	QP
6 0	.5740	26.10	9.60	35.70 46	6.00	-10.30	AVG
7 0	.8980	36.74	9.60	46.34 56	3.00	-9.66	QP
8 0	.8980	28.54	9.60		6.00		AVG
	.6099	31.93	9.63			-14.44	QP
	.6099	24.72	9.63			-11.65	AVG
	.6100	32.88	9.67			-13.45	QP
	.6100	25.11	9.67			-11.22	AVG
Emission Level							



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240V/60Hz tral rging with TX B v worse case is	Mode .	elative Humi	Manufacture and the second sec	QP: AVG:	pea
tral rging with TX B v worse case is	reported		Mary Market		
rging with TX B	reported		man Marily 1		
/ worse case is	reported	Mary Mary	man Make		
			Mary Market		
5		Many Many	North March 1		
5		Mary Mary	man Marily !		
5			Mary Mary		
5	(MH-)				
	(m112)	5			30.000
Reading Level	Correct Factor	Measure- ment	Limit	Over	
dBu∨	dB	dBuV	dBuV	dB	Detector
40.59	9.65	50.24	63.36	-13.12	QP
25.90	9.65	35.55	53.36	-17.81	AVG
37.76	9.59	47.35	56.00	-8.65	QP
27.19	9.59	36.78	46.00	-9.22	AVG
35.69	9.59	45.28	56.00	-10.72	QP
18.10	9.59	27.69	46.00	-18.31	AVG
39.06	9.60	48.66	56.00	-7.34	QP
22.60	9.60	32.20	46.00	-13.80	AVG
38.17	9.63	47.80	56.00	-8.20	QP
22.37	9.63	32.00	46.00	-14.00	AVG
35.69	9.70	45.39	56.00	-10.61	QP
			46.00	-11.53	AVG
	Level dBuV 40.59 25.90 37.76 27.19 35.69 18.10 39.06 22.60 38.17 22.37 35.69 24.77	Level Factor dBuV dB 40.59 9.65 25.90 9.65 37.76 9.59 27.19 9.59 35.69 9.59 18.10 9.59 39.06 9.60 22.60 9.60 38.17 9.63 22.37 9.63 35.69 9.70	Level Factor ment dBuV dB dBuV 0 40.59 9.65 50.24 0 25.90 9.65 35.55 0 37.76 9.59 47.35 0 27.19 9.59 36.78 0 35.69 9.59 45.28 0 18.10 9.59 27.69 0 39.06 9.60 48.66 0 22.60 9.60 32.20 0 38.17 9.63 47.80 0 22.37 9.63 32.00 0 35.69 9.70 45.39 0 24.77 9.70 34.47	Level Factor ment Limit dBuV dB dBuV dBuV 0 40.59 9.65 50.24 63.36 0 25.90 9.65 35.55 53.36 0 37.76 9.59 47.35 56.00 0 27.19 9.59 36.78 46.00 0 35.69 9.59 45.28 56.00 0 18.10 9.59 27.69 46.00 0 39.06 9.60 48.66 56.00 0 22.60 9.60 32.20 46.00 0 38.17 9.63 47.80 56.00 0 22.37 9.63 32.00 46.00 0 35.69 9.70 45.39 56.00 0 24.77 9.70 34.47 46.00	Level Factor ment Limit Over dBuV dB dBuV dBuV dB 0 40.59 9.65 50.24 63.36 -13.12 0 25.90 9.65 35.55 53.36 -17.81 0 37.76 9.59 47.35 56.00 -8.65 0 27.19 9.59 36.78 46.00 -9.22 0 35.69 9.59 45.28 56.00 -10.72 18.10 9.59 27.69 46.00 -18.31 39.06 9.60 48.66 56.00 -7.34 22.60 9.60 32.20 46.00 -13.80 38.17 9.63 47.80 56.00 -8.20 22.37 9.63 32.00 46.00 -14.00 35.69 9.70 45.39 56.00 -10.61 24.77 9.70 34.47 46.00 -11.53



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3m (dBuV/m)			
(MHz)	Peak	Average		
Above 1000	74	54		

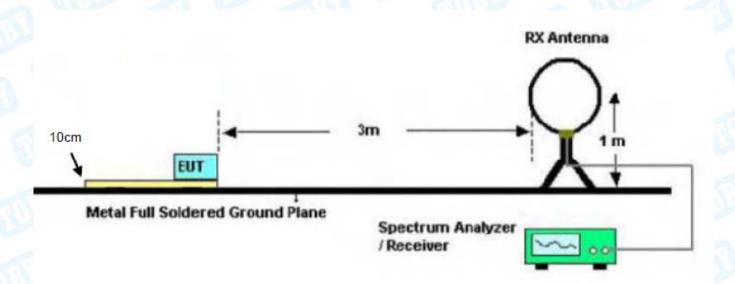
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

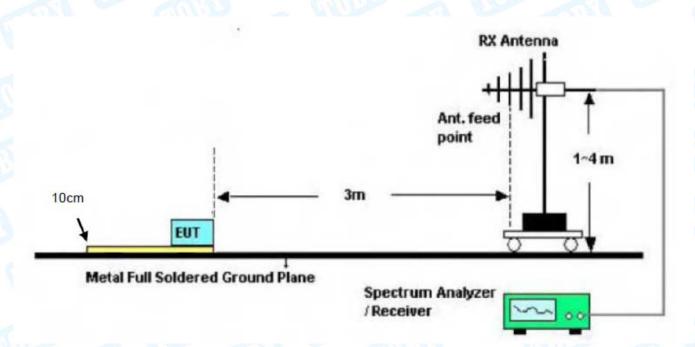


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5.2 Test Setup



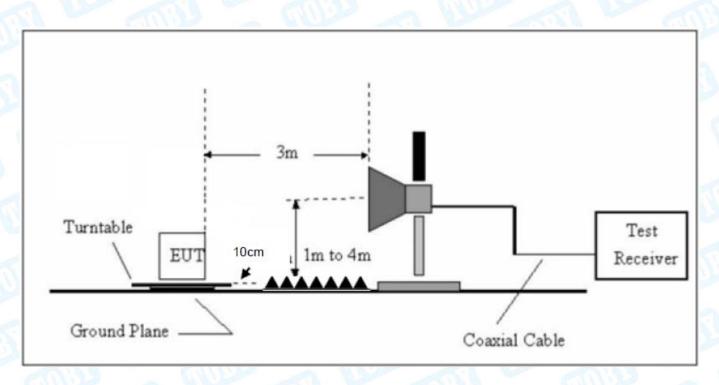
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 10cm high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.



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5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

Temperature: Test Voltage:			Model:		KR0319	1
Toet Voltago:	25 ℃		Relative Humid	lity:	55%	
rest voltage.	AC 120V/60Hz	CALL PARTY		MA		
Ant. Pol.	Horizontal				CALL!	
Test Mode:	TX B Mode 2412I	MHz		57	N. Carlot	
Remark:	Only worse case	is reported	THI THI			167
30 dBuV/m	60 70 80	(MHz)			GC 3M Radiation Margin -6 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
30.000 40 30						
	Reading req. Level	Correct Factor	Measure- ment Lir	mit	Over	
No. Mk.	•		ment Lir	mit BuV/m	Over	Detecto
No. Mk.	req. Level	Factor	ment Lin			
No. Mk. F	Freq. Level MHz dBuV	Factor dB/m	ment Lir dBu√/m dB 35.07 40	BuV/m	dB	Detecto peak peak
No. Mk. F	Treq. Level MHz dBuV 7043 59.19	Factor dB/m -24.12	ment Lind dBuV/m dB 35.07 40 39.21 43	8uV/m 0.00	dB -4.93	peak
No. Mk. F	Treq. Level MHz dBuV 7043 59.19 0882 60.86	Factor dB/m -24.12 -21.65 -13.74	ment Lind dBuV/m dB 35.07 40 39.21 43 40.95 46	0.00 3.50	dB -4.93 -4.29	peak
No. Mk. F	Treq. Level MHz dBuV .7043 59.19 .0882 60.86 .7139 54.69	Factor dB/m -24.12 -21.65 -13.74 -10.83	ment Lind dBuV/m dB 35.07 40 39.21 43 40.95 46 41.22 46	3.50 6.00	dB -4.93 -4.29 -5.05	peak peak peak



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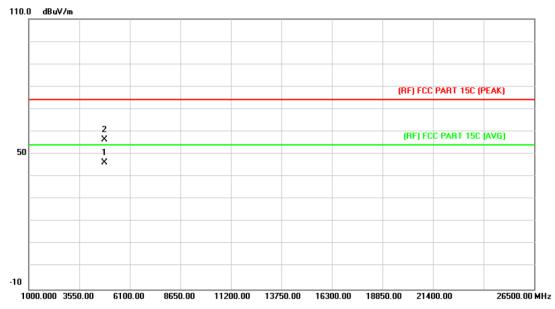
EUT:			Pil	ot	1	7.1		Model:			KR	0319)	1	1
Гетре	rature	:	25	°C		500	33	Relative	Humi	dity:	55%	6	1	B	į.
Test Vo	ltage	:	AC	2 12	20V/	60Hz				6)		h,
Ant. Po	ol.		Ve	ertica	al		2 BR	Janes .		1			A.	1	
Test Mo	ode:		TX	ίВΙ	Mod	le 241	2MHz	61	(10)	2				معالم	
Remar	k:		Or	ıly v	vors	se cas	e is reporte	ed		GIN.		3			1
80.0 dB	uV/m			_											_
V	apt 18 th Mariney	and delivery	My please		*	m Vogoval	2 3 ************************************	WATER PARTY AND	Maril voltan	5 X	M M	Ma	diation	dB 6	
-20 30.000	40	50	60	70	80		(MHz)		300	400	500	600	700	1000	_). 00
					Rea	ading	Correc	t Measi	ure-						
No.	Mk.	Fre	eq.			evel	Facto		nt	Limit		Ove	er		
No.	Mk.	Fre			Le					Limit dBuV/		Ove dB		Detec	cto
No.			- Hz		Le di	evel	Facto	r mer	//m		m		3	Detec	
	ļ	MH	- ⊣z 926	,	de 58	evel BuV	dB/m	r mer dBu\ 35.6	//m 61	dBuV/	m O	dB	39		ak
1 2	! 1	MH 77.5	- Hz 926 8555	5	58 61	BuV 3.62	dB/m -23.01	r mer dBuV 35.6 39.3	//m 61 30	dBuV/	m 0 0	dB	39 20	pea	ak ak
1 2	! ! 1 ! 1	МН 77.59 119.8	926 3555 3873	5	58 61	BuV 3.62 1.35 0.83	dB/m -23.01 -22.05	r mer dBuV 35.6 39.3	//m 61 30 25	40.0 43.5	0 0 0	-4.3	39 20 25	pea pea	ak ak ak
1 2 3 4	! 1 ! 1 ! 1	MH 77.59 119.8 138.3 207.8	926 8555 8873 8498	5 5 3	58 61 60 58	BuV 3.62 1.35 0.83 3.08	-23.01 -22.05 -21.58 -19.41	35.6 39.3 39.2 38.6	//m 61 30 25	40.0 43.5 43.5 43.5	m 0 0 0	-4.3 -4.3 -4.3	39 20 25 83	pea pea pea	ak ak ak
1 2 3	! 1 ! 1 ! 1 ! 2	MH 77.59 119.8 138.3	926 8555 8873 8498	5 3 8	58 61 60 58	BuV 3.62 1.35 0.83	-23.01 -22.05 -21.58	35.6 39.3 39.2 38.6	//m 61 30 25 67 23	40.0 43.5 43.5	0 0 0 0	-4.3 -4.3	39 20 25 83	pea pea	ak ak ak ak



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Above 1GHz

EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2412MHz		A VIVE				
Remark:	No report for the emission	which more than 10 de	B below the prescribed				
	limit.	2 13 V3					



1	No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4824.124	32.81	13.56	46.37	54.00	-7.63	AVG
2			4825.393	42.75	13.57	56.32	74.00	-17.68	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2412MHz		A VIII				
Remark:	No report for the emission v	which more than 10 dB	below the				
	prescribed limit.						
İ							

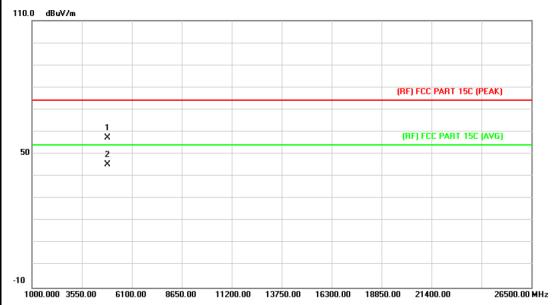


No	o. Mł	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m		dBuV/m	dB	Detector
1		4823.760	41.90	13.56	55.46	74.00	-18.54	peak
2	*	4824.256	32.77	13.56	46.33	54.00	-7.67	AVG



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX B Mode 2437MHz		The same of the sa			
Remark:	No report for the emission	No report for the emission which more than 10 dB below the				
	prescribed limit.					
i e						

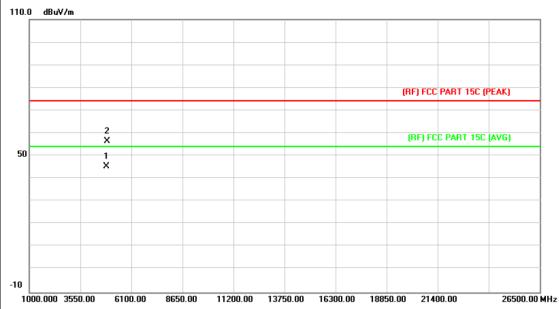


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.650	43.38	13.86	57.24	74.00	-16.76	peak
2	*	4875.234	31.49	13.87	45.36	54.00	-8.64	AVG



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX B Mode 2437MHz	MILLOS				
Remark: No report for the emission which more than 10 dB below the prescribed limit.						
440.0 ID.W.						

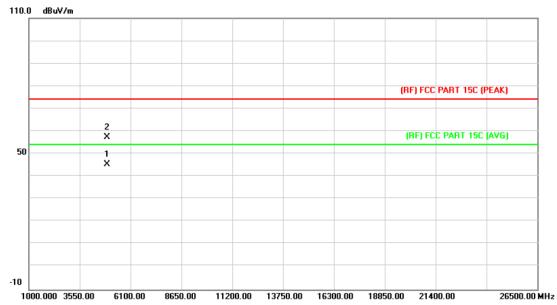


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.127	31.51	13.86	45.37	54.00	-8.63	AVG
2		4876.210	42.57	13.87	56.44	74.00	-17.56	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2462MHz		The same of the sa				
Remark:	No report for the emission	n which more than 10 de	B below the				
	prescribed limit.						



	No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4924.662	31.18	14.15	45.33	54.00	-8.67	AVG
2			4925.975	43.26	14.16	57.42	74.00	-16.58	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2462MHz	WIID S	The same of the sa				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

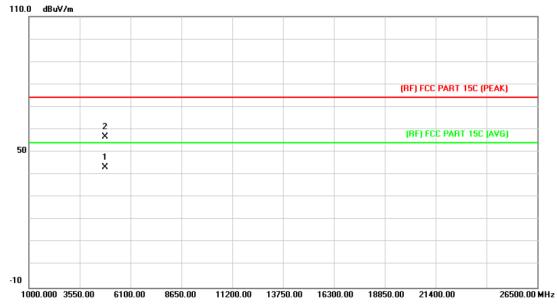


N	o. M	k. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.130	42.19	14.15	56.34	74.00	-17.66	peak
2	*	4925.278	31.10	14.16	45.26	54.00	-8.74	AVG



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX G Mode 2412MHz	WIII DE	- Aller			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						
110.0 dP:40/m						

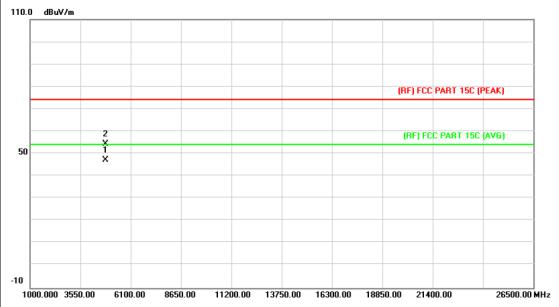


No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.664	29.69	13.56	43.25	54.00	-10.75	AVG
2		4824.628	43.16	13.56	56.72	74.00	-17.28	peak



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX G Mode 2412MH	z	A VIII			
Remark:	No report for the emi	No report for the emission which more than 10 dB below the				
	prescribed limit.					

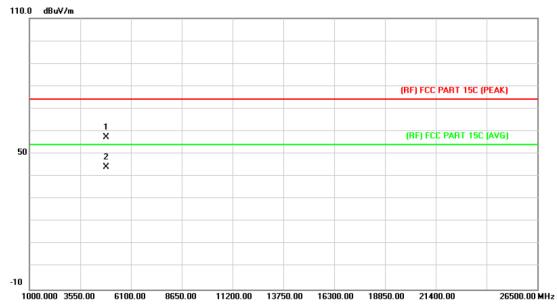


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.266	33.60	13.56	47.16	54.00	-6.84	AVG
2		4824.432	40.80	13.56	54.36	74.00	-19.64	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2437MHz		THE PARTY OF THE P				
Remark:	No report for the emission	n which more than 10 de	B below the				
	prescribed limit.						

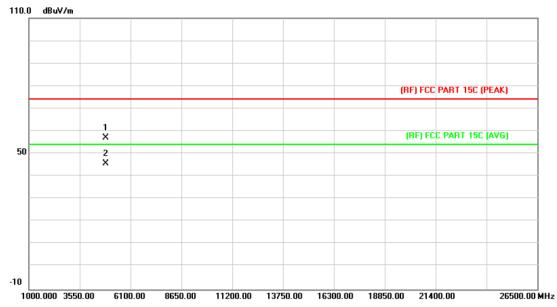


No	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.796	43.49	13.86	57.35	74.00	-16.65	peak
2	*	4875.452	30.36	13.87	44.23	54.00	-9.77	AVG



Page: 32 of 91

EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX G Mode 2437MH	z				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

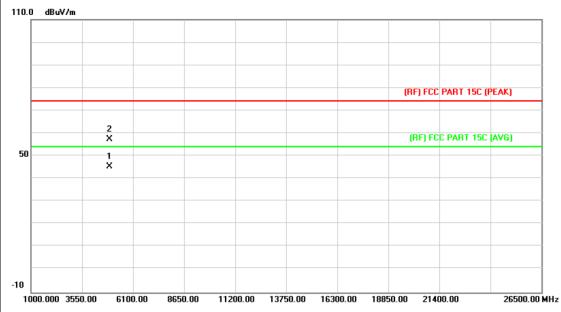


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4875.225	43.25	13.87	57.12	74.00	-16.88	peak
2	*	4875.910	31.71	13.87	45.58	54.00	-8.42	AVG



Page: 33 of 91

EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2462MHz		THE REAL PROPERTY.				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
prescribed littit.							



1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	1	*	4923.570	31.16	14.15	45.31	54.00	-8.69	AVG
2			4925.168	43.06	14.16	57.22	74.00	-16.78	peak



Page: 34 of 91

EUT:	Pilot	Model:	KR0319			
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.219	43.18	14.15	57.33	74.00	-16.67	peak
2	*	4925.378	32.19	14.16	46.35	54.00	-7.65	AVG



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode 2412M	Hz	The same of the sa			
Remark:	No report for the emission	which more than 10 de	B below the			
	prescribed limit.					
İ						

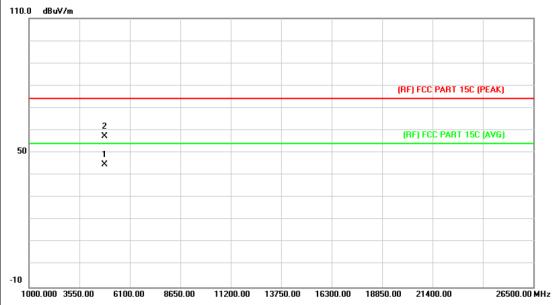


N	o. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.421	42.89	13.56	56.45	74.00	-17.55	peak
2	*	4824.670	30.63	13.56	44.19	54.00	-9.81	AVG



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EUT:	Pilot	Model:	KR0319			
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode 2412	2MHz				
Remark:	No report for the emissi	on which more than 10 de	B below the			
	prescribed limit.					



N	No.	Mk.	Freq.			Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4823.424	31.07	13.56	44.63	74.00	-29.37	peak
2		*	4825.349	43.81	13.57	57.38	74.00	-16.62	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2437M	Hz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

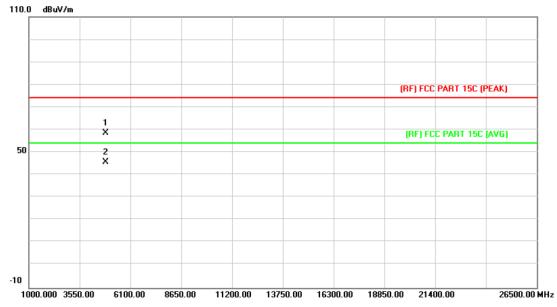


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.273	42.56	13.86	56.42	74.00	-17.58	peak
2	*	4876.358	32.37	13.87	46.24	54.00	-7.76	AVG



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 °C Relative Humidity: 55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2437M	Hz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
110.0 40.377-	·	·	·				

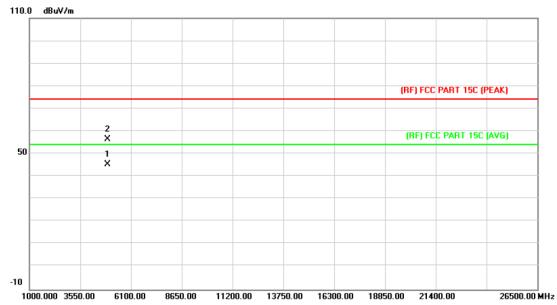


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.232	44.58	13.85	58.43	74.00	-15.57	peak
2	*	4873.901	31.81	13.86	45.67	54.00	-8.33	AVG



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	25 ℃ Relative Humidity: 55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2462MH	z	a William				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						

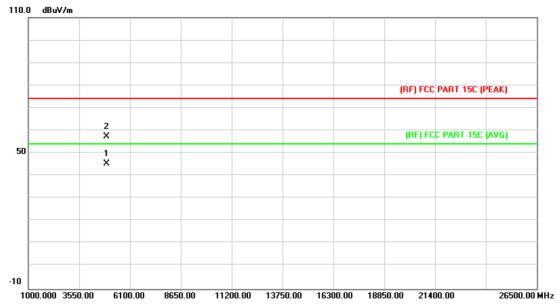


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.239	31.07	14.15	45.22	54.00	-8.78	AVG
2		4925.371	42.18	14.16	56.34	74.00	-17.66	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2462MH	z	a William				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						
i							

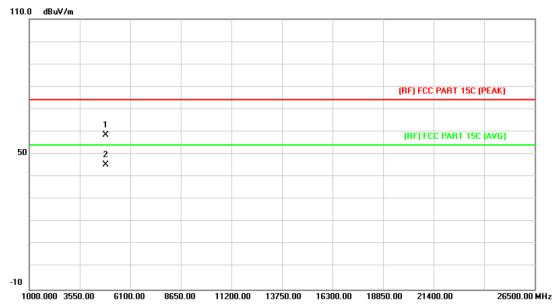


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.570	31.16	14.15	45.31	54.00	-8.69	AVG
2		4925.168	43.06	14.16	57.22	74.00	-16.78	peak



Page: 41 of 91

EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃ Relative Humidity: 55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2422M	Hz	Jan Milliam				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

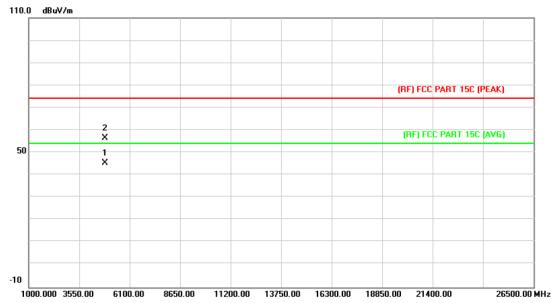


No	. Mk	Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4844.387	44.79	13.68	58.47	74.00	-15.53	peak
2	*	4845.365	31.67	13.69	45.36	54.00	-8.64	AVG



Page: 42 of 91

EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2422MH	lz N	A HILL				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4844.225	31.61	13.68	45.29	54.00	-8.71	AVG
2		4845.263	42.65	13.69	56.34	74.00	-17.66	peak



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	31 - 0	
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437Ml	Hz	
Remark:	No report for the emission	which more than 10 dE	B below the
	prescribed limit.		
440.0 10.44			

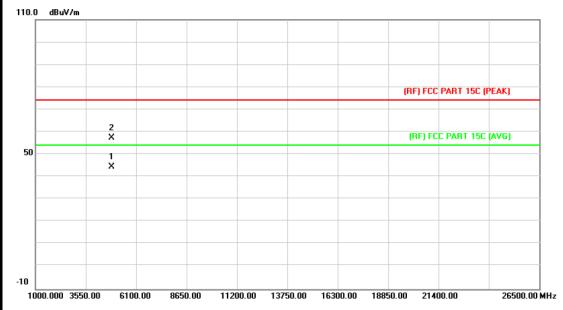


No	. Mk	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.562	43.30	13.86	57.16	74.00	-16.84	peak
2	*	4874.480	30.49	13.86	44.35	54.00	-9.65	AVG



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	0.0	Till
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437M	Hz	THE PARTY OF THE P
Remark:	No report for the emission	which more than 10 de	3 below the
	prescribed limit.	1	



N	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4873.254	30.50	13.86	44.36	54.00	-9.64	AVG
2			4874.262	43.36	13.86	57.22	74.00	-16.78	peak



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Pilot	Model:	KR0319			
25 ℃	Relative Humidity:	55%			
C 120V/60Hz					
Horizontal					
TX N(HT40) Mode 2452MH	Hz	A VIII			
Test Mode: TX N(HT40) Mode 2452MHz Remark: No report for the emission which more than 10 dB below the prescribed limit.					
	25 °C AC 120V/60Hz Horizontal TX N(HT40) Mode 2452MI No report for the emission	25 °C Relative Humidity: AC 120V/60Hz Horizontal TX N(HT40) Mode 2452MHz No report for the emission which more than 10 dB			

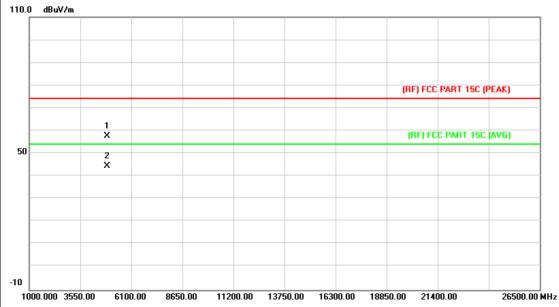


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.512	43.65	14.03	57.68	74.00	-16.32	peak
2	*	4905.132	30.61	14.04	44.65	54.00	-9.35	AVG



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		Tibe
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452M	Hz	THE PARTY OF THE P
Remark:	No report for the emission	which more than 10 de	B below the
	prescribed limit.		
1100 ID VI			



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4904.247	43.53	14.03	57.56	74.00	-16.44	peak
2	*	4904.825	30.31	14.03	44.34	54.00	-9.66	AVG



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

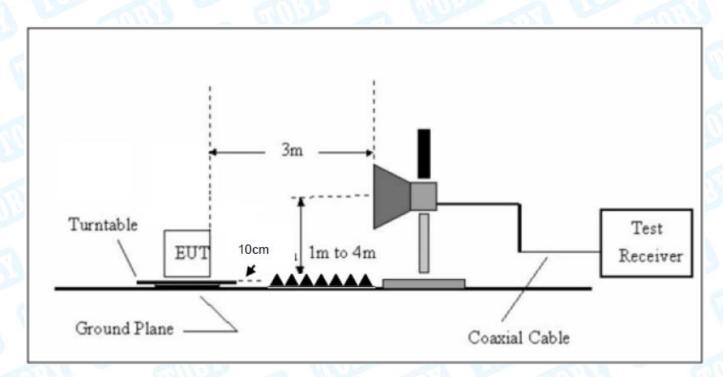
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of	3m (dBuV/m)
Band (MHz)	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup





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6.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 10cm high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.

- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 10cm high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

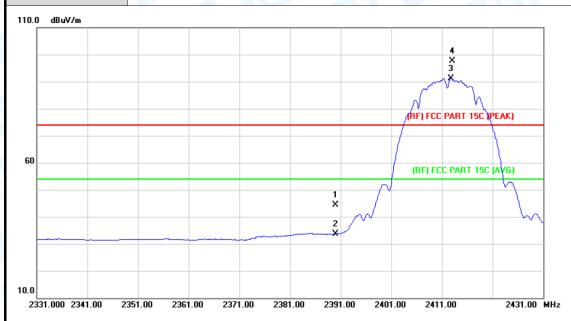
Please see the next page.



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(1) Radiation Test

EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	U	
Ant. Pol.	Horizontal	WILD P	HILL
Test Mode:	TX B Mode 2412MHz		13 - 6
Remark:	N/A	- 13V	



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.49	0.77	44.26	74.00	-29.74	peak
2		2390.000	32.86	0.77	33.63	54.00	-20.37	AVG
3	*	2412.800	90.38	0.86	91.24	Fundamental F	Frequency	AVG
4	Χ	2413.000	96.69	0.86	97.55	Fundamental F	Frequency	peak



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EUT	:		Pilot		-a 1	Model:		KR0319	
Temperature: 25 ℃			C	130	Relativ	e Humidity:	55%	The same	
Test	t Voltag	e:	AC 1	20V/60H	Z	15.0	60	U.S.	
Ant. Pol.			Verti	cal	a W	U in the second		and the same	
Test Mode:			TX E	Mode 24	112MHz		1100		A Section
Ren	nark:		N/A	Rich		A F		333	
110.0) dBuV/m								
60						1 x 2 x		C PART 15C (PEAK	
10.0									
10.0 23	338.000 234	8.00 2	358.00	2368.00	2378.00 238	3.00 2398.00	0 2408.00 24	18.00 2	438.00 MHz
	lo. Mk.	. Fre	eq.	Readin Level	•			Over	
		MH	Ηz	dBu∀	dB/m	dBu\	V/m dBuV/	m dB	Detecto
1		2390.	.000	44.25	0.77	45.	02 74.0	0 -28.98	peak
2		2390.	.000	32.86	0.77	33.	63 54.0	0 -20.37	AVG
	*	2412.	.800	89.83	0.86	90.	69 Fundame	ental Frequency	AVG
3									



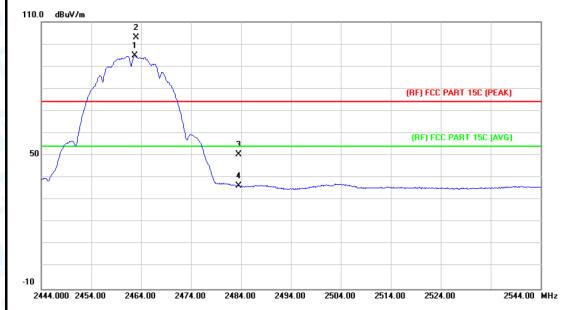
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:UT:			Pilot	VE A		0	M	Model:			KR0319			
Гетр	eratur	e:	25 °C		M	M	R	elati	ve Hur	nidity:	5	5%		J. P
Test \	/oltag	e:	AC 1	20V/60	OHz		5			G		13.9		
Ant. F	ol.		Horiz	ontal		11/1				1 1				
Test N	/lode:		TX B	Mode	2462	MHz		1	1110			1 11	Med	
Rema	rk:		N/A	R	a land			1		6111				-
110.0	dBuV/m													_
60	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		\(\frac{1}{\sqrt{1}}\)	2 ×		3 X 4						RT 15C (PEAK		
10.0	000 2447		4E7 00	2467.00	247	7.00 248	7.00	2497.	NN 250	07.00 2	517.00	1 2	537.00	_ MH
Z437.		7.00 2	457.00			240				71.00				
	. Mk.			Read Lev	_	Corre Fact	ect		sure-	Limi	t	Over		
			eq.		/el	Corre	ect or	m				Over	Det	ecto
		Fre	eq.	Lev	/el u∨	Corre Fact	ect or	dBi	ent	Limi dBu\	//m			ecto
No	. Mk.	Fre	eq. Iz 200	Lev dBu	/el u∀ 37	Corre Fact	ect or	dBi	ent uV/m	Limi dBu\ Fundam	'/m ental	dB Frequency	Α	VG
No 1	. Mk.	Fre Mt 2461.	eq. dz 200 100	dBu	/el u∀ 37 02	Corre Fact dB/m	ect	94 99	ent uV/m I.44	Limi dBu\ Fundam	//m ental ental	dB	A pe	



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	31 6	Tib
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz	WIII DE	THE PARTY OF THE P
Remark:	N/A		33 _ 6

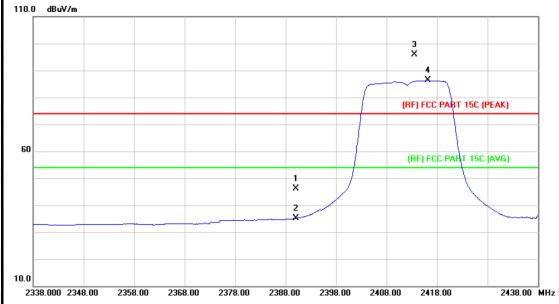


N	No. Mk.		Freq.	Reading Correct Level Factor		Measure- ment	Limit Over		
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*		2462.700	93.65	1.08	94.73	Fundamental Frequency		AVG
2	X		2463.000	101.79	1.08	102.87	Fundamental	Frequency	peak
3			2483.500	49.38	1.17	50.55	74.00	-23.45	peak
4			2483.500	35.05	1.17	36.22	54.00	-17.78	AVG



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz	MILES	
Remark:	N/A		

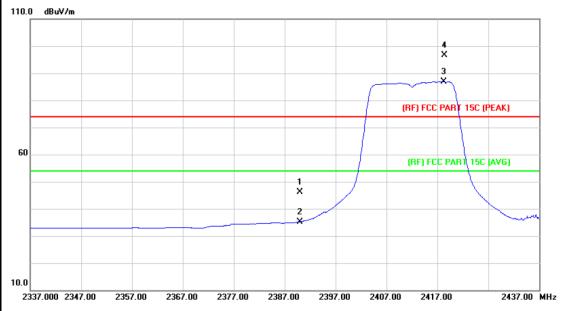


			- I					
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.33	0.77	46.10	74.00	-27.90	peak
2		2390.000	34.43	0.77	35.20	54.00	-18.80	AVG
3	X	2413.500	95.01	0.86	95.87	Fundamental	Frequency	peak
4	*	2416.200	85.41	0.88	86.29	Fundamental	Frequency	AVG



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	37	
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		2
Remark:	N/A		13 0
1100 10 11			

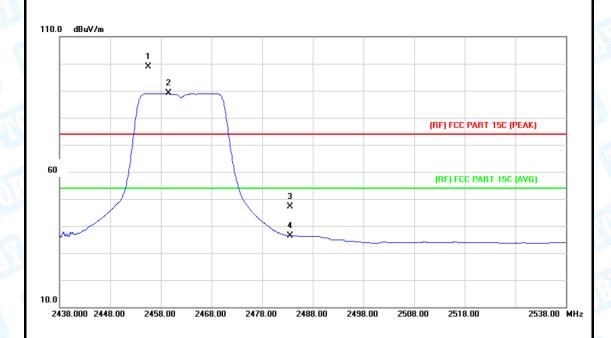


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.31	0.77	46.08	74.00	-27.92	peak
2		2390.000	34.47	0.77	35.24	54.00	-18.76	AVG
3	*	2418.300	85.93	0.89	86.82	Fundamenta	I Frequency	AVG
4	X	2418.400	95.69	0.89	96.58	Fundamenta	I Frequency	peak



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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		193



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2455.600	97.74	1.05	98.79	Fundamental Frequency		peak
2	*	2459.500	87.95	1.06	89.01	Fundamental	Frequency	AVG
3		2483.500	46.08	1.17	47.25	74.00	-26.75	peak
4		2483.500	35.23	1.17	36.40	54.00	-17.60	AVG



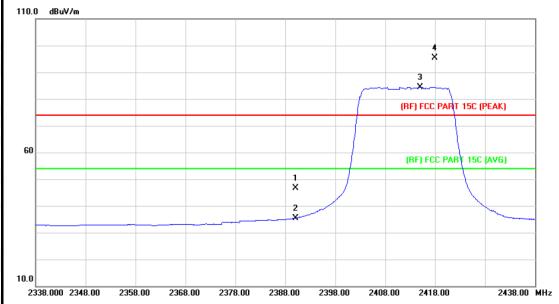
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UT:			Pilot	The state of		11/1	Mode	el:	KR0319	KR0319	
emp	peratu	re:	25 °	C	THE		Relat	ive H	umidity:	55%	A BANK
est	Voltag	je:	AC 1	120V/60H	łz	1	N/A		67	11:33	
nt.	Pol.		Verti	cal	0	11/13		1	J. F.		AM.
est	Mode		TX	Mode 2	462MHz		611	11/2		A W	A local
lem	ark:		N/A	ABO		1263				35	
110.0	dBuV/m										
				1							
				X 2							
\perp				×							
-					}				(BE) FC(PART 15C (PEA	K)
									()	Trail 100 (1 Era	,
60											
						3			(RF) FO	CC PART 15C (AV	G)
						×					
					_	4 X					
10.0											
243	5.000 24	45.00 2	455.00	2465.00	2475.00	2485.00	2495.0	00 25	05.00 251	5.00	2535.00 MI
		_		Readir	_	rrect	Meas		1 : :4	0	
No	o. Mk	. Fre	eq.	Leve	I Fa	actor	me	ent	Limit	Over	
		M	ΗZ	dBu∀	dE	B/m	dBu	ıV/m	dBuV/n	n dB	Detecto
1	Х	2463	700	98.02	2 1.	.08	99.	.10	Fundamen	tal Frequency	peal
2	*	2466	100	88.35	5 1.	.09	89.	.44	Fundamen	tal Frequency	AVC
		2483	500	47.64	1 1.	.17	48.	.81	74.00	-25.19	peal
3		2-700									
		2463 2466	.700	98.02 88.35	2 1. 5 1.	.08	99.	.10	Fundamen	tal Frequency	



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EUT:	Pilot	Model:	KR0319					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2412MH	z milipe	Jan Milliam					
Remark:	N/A							

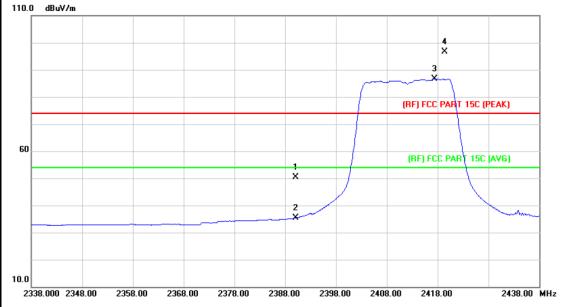


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			2390.000	45.97	0.77	46.74	74.00	-27.26	peak
2			2390.000	34.69	0.77	35.46	54.00	-18.54	AVG
3		*	2415.000	83.56	0.88	84.44	Fundamental	Frequency	AVG
4		X	2417.900	94.47	0.89	95.36	Fundamental	Frequency	peak



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz		MILES OF				
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode	e 2412MHz					
Remark:	N/A						
110.0 dBuV/m							
			×				

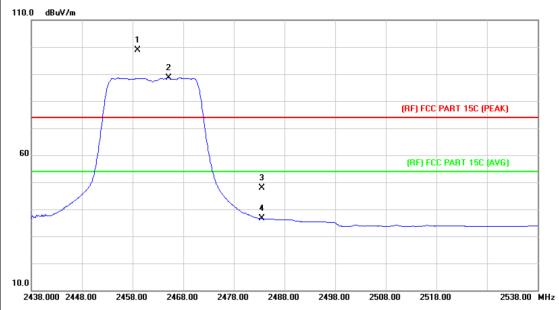


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	49.49	0.77	50.26	74.00	-23.74	peak
2		2390.000	34.70	0.77	35.47	54.00	-18.53	AVG
3	*	2417.400	85.75	0.89	86.64	Fundamental	Frequency	AVG
4	Χ	2419.400	95.83	0.89	96.72	Fundamental	Frequency	peak



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EUT:	Pilot Model: KR0319					
Temperature:	25 ℃	55%				
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Horizontal	O				
Test Mode:	TX N(HT20) Mode 2462MHz					
Remark:	N/A					

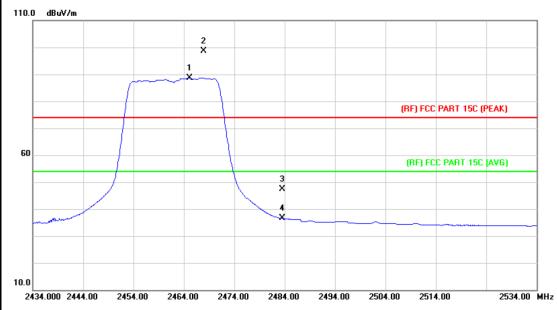


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2459.000	97.90	1.06	98.96	Fundamental F	requency	peak
2	*	2465.200	87.49	1.09	88.58	Fundamental F	requency	AVG
3		2483.500	46.68	1.17	47.85	74.00	-26.15	peak
4		2483.500	35.36	1.17	36.53	54.00	-17.47	AVG



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2462MHz						
Remark:	N/A						

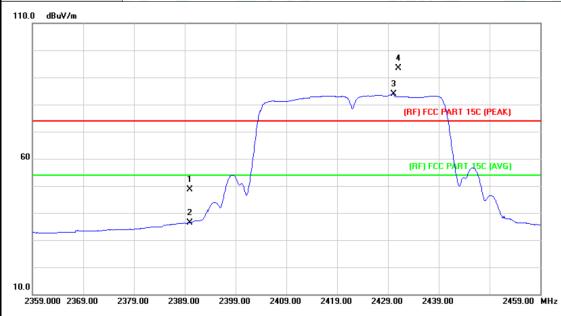


No	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2465.100	87.64	1.09	88.73	Fundamental I	Frequency	AVG
2	Χ	2467.900	97.48	1.10	98.58	Fundamental I	Frequency	peak
3		2483.500	46.15	1.17	47.32	74.00	-26.68	peak
4		2483.500	35.39	1.17	36.56	54.00	-17.44	AVG



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2452MH	z	3 1111				
Remark:	N/A						
4400 10 111							



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	47.78	0.77	48.55	74.00	-25.45	peak
2		2390.000	35.62	0.77	36.39	54.00	-17.61	AVG
3	*	2430.100	82.91	0.94	83.85	Fundamental	Frequency	AVG
4	X	2431.000	92.37	0.95	93.32	- Fundamental	Frequency	peak



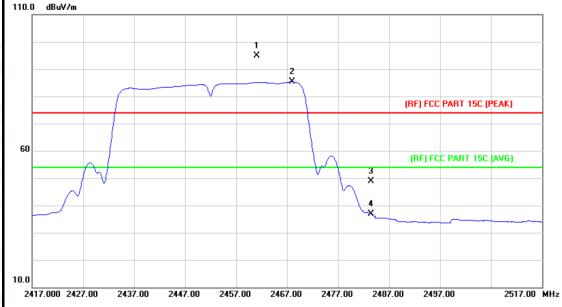
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EUT:			Pilot	DE L		Model:		KR0319		
Tem	peratui	e:	25 °C	C	1,970	Relative H	lumidity:	55%	N. Land	
Test	Voltag	e:	AC 1	AC 120V/60Hz						
Ant.	Pol.		Verti	cal	a Will				MIN.	
Test	Mode:		TXN	I(HT40) M	lode 2422MH	z		a W	1 leave	
Rem	ark:		N/A	An						
110.0	dBuV/m									
							3 ×			
-					- 		(RF) FCC I	PART 15C (PEAK	1	
60							(RF) FCC	PART 15C (AVE)	
-				2 *	/ V					
10.0 236	60.000 237	0.00 2	380.00	2390.00	2400.00 2410.00	2420.00 2	430.00 2440.	.00 2	460.00 MHz	
N	lo. Mk.	. Fre	eq.	Readin Level	g Correct Factor	Measure- ment	Limit	Over		
		MH	Ηz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1		2390.	.000	49.47	0.77	50.24	74.00	-23.76	peak	
2		2390.	.000	36.14	0.77	36.91	54.00	-17.09	AVG	
3	X	2430.	800	93.64	0.95	94.59	Fundamenta	al Frequency	peak	
4	*	2438.	.000	83.93	0.98	84.91	Fundamenta	al Frequency	AVG	



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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	ge: AC 120V/60Hz						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode	2452MHz					
Remark:	N/A		(1)				
110.0 dBuV/m							
		1 ×					

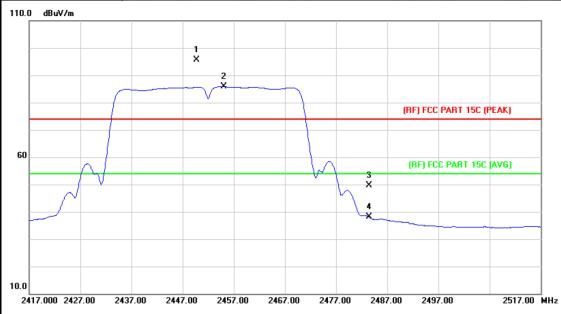


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.100	93.93	1.06	94.99	Fundamental	Frequency	peak
2	*	2468.000	84.17	1.11	85.28	Fundamental	Frequency	AVG
3		2483.500	47.79	1.17	48.96	74.00	-25.04	peak
4		2483.500	35.59	1.17	36.76	54.00	-17.24	AVG

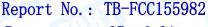


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EUT:	Pilot	Model:	KR0319				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT40) Mode 2452MHz						
Remark:	N/A						



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2449.700	94.73	1.02	95.75	Fundamental F	requency	peak
2	*	2455.000	84.79	1.05	85.84	Fundamental F	requency	AVG
3		2483.500	48.41	1.17	49.58	74.00	-24.42	peak
4		2483.500	36.84	1.17	38.01	54.00	-15.99	AVG

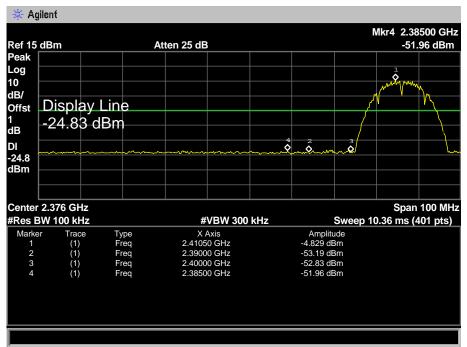


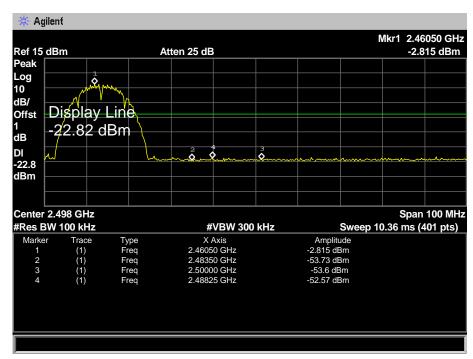


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(2) Conducted Test

EUT:	Pilot	Model:	KR0319	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60Hz			
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz			
Remark:	The EUT is programed in continuously transmitting mode			



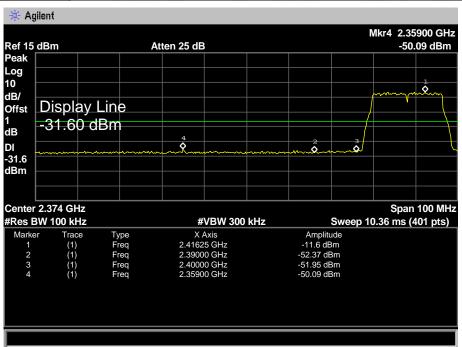


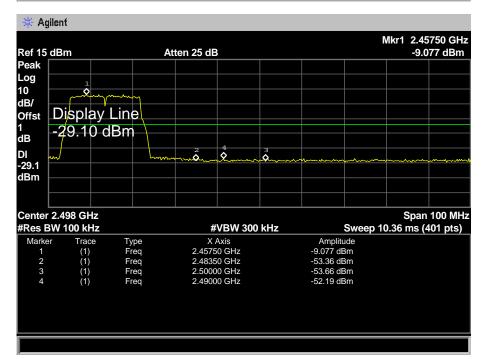




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Pilot	Model:	KR0319		
25 ℃	Relative Humidity:	55%		
Test Voltage: AC 120V/60Hz				
Test Mode: TX G Mode 2412MHz / TX G Mode 2462MHz				
Remark: The EUT is programed in continuously transmitting mode				
	25 °C AC 120V/60Hz TX G Mode 2412MHz / TX C	25 °C Relative Humidity: AC 120V/60Hz TX G Mode 2412MHz / TX G Mode 2462MHz		



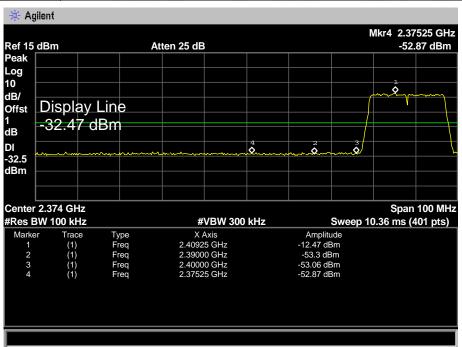


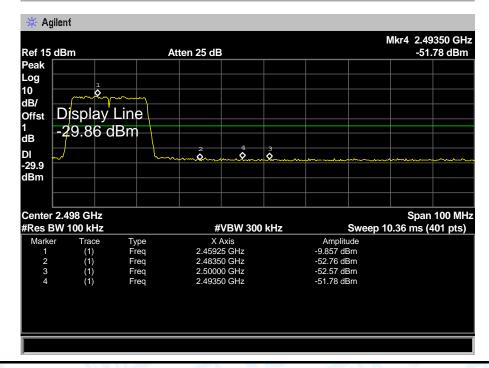




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EUT:	Pilot	Model:	KR0319		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Test Mode:	: TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz				
Remark: The EUT is programed in continuously transmitting mode					



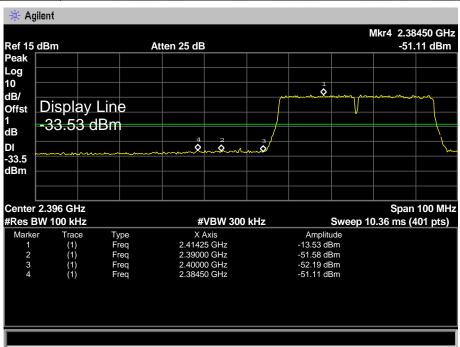


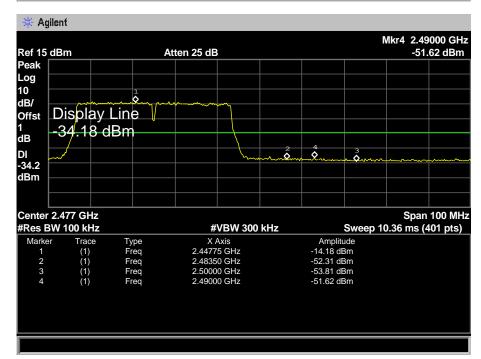




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EUT:	Pilot	Model:	KR0319	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60Hz			
Test Mode: TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz			52MHz	
Remark: The EUT is programed in continuously transmitting mode			mode	







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7. Bandwidth Test

7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210				
Test Item	Limit	Frequency Range(MHz)		
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5		

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.



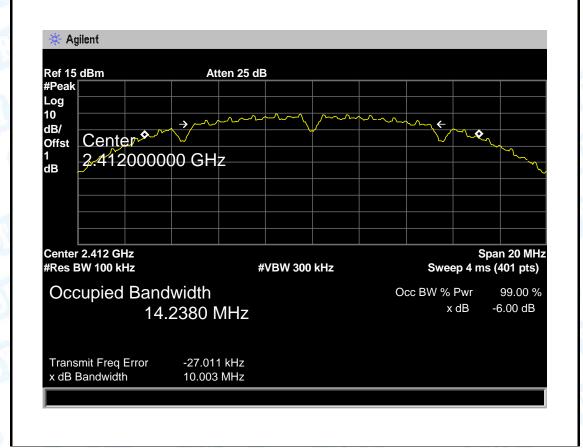
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7.5 Test Data

EUT:	Pilot	Model:	KR0319	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60Hz			
Test Mode:	TX 802.11B Mode	A THURSDAY	0	
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	10.003	14.2380		
2437	9.617	14.2342	>=0.5	
2462	10.109	14.1768		

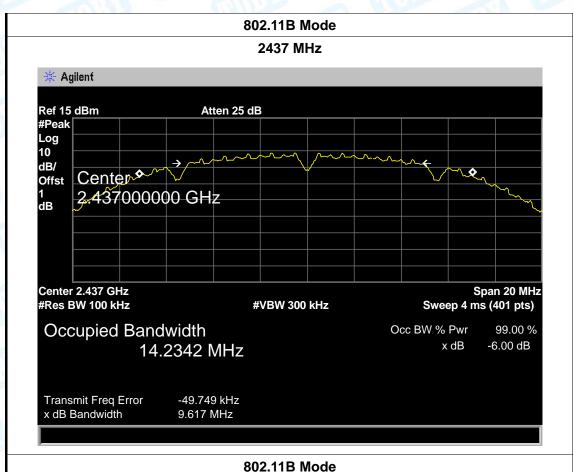
802.11B Mode

2412 MHz





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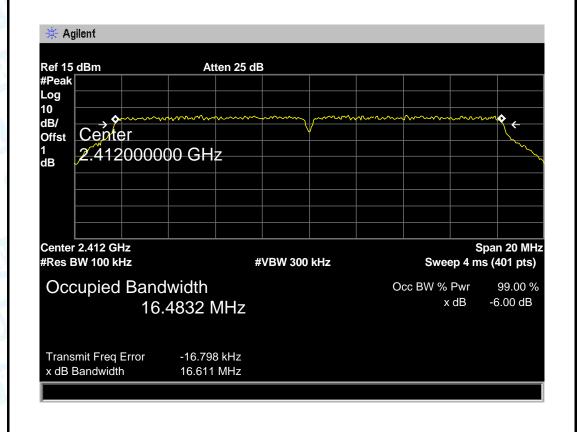
2462 MHz 🔆 Agilent Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB 14.1768 MHz x dB Transmit Freq Error -46.991 kHz x dB Bandwidth 10.109 MHz



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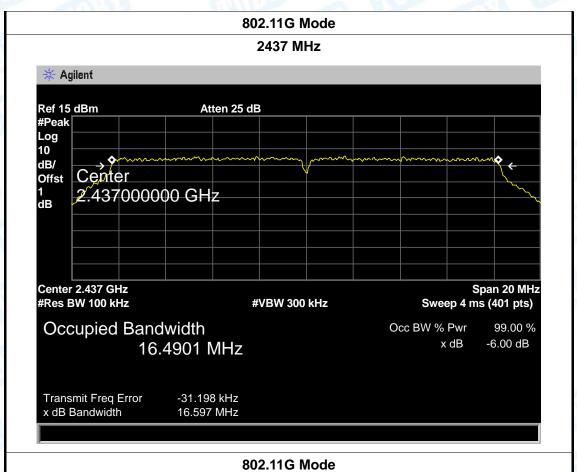
EUT:	Pilot	Model:	KR0319	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60Hz	100	133	
Test Mode:	TX 802.11G Mode	O		
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.611	16.4832		
2437	16.597	16.4901	>=0.5	
2462	16.579	16.4762		
802 11G Mode				

2412 MHz





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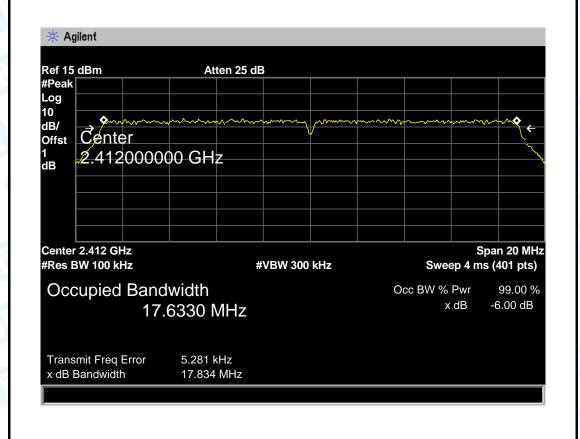


2462 MHz 🔆 Agilent Atten 25 dB Ref 15 dBm #Peak Log 10 dB/ Center Offst 1 dB 2,462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB 16.4762 MHz x dB Transmit Freq Error -30.331 kHz x dB Bandwidth 16.579 MHz



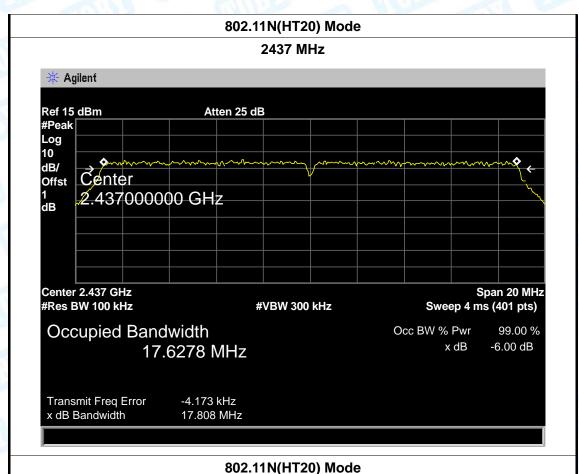
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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	11	133
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequence	ncy 6dB Bandwidth 99% Bandwidth Limit		
(MHz)	(MHz)	(MHz)	(MHz)
2412	17.834	17.6330	
2437	17.808	17.6278	>=0.5
2462	17.830	17.6291	
802.11N(HT20) Mode			





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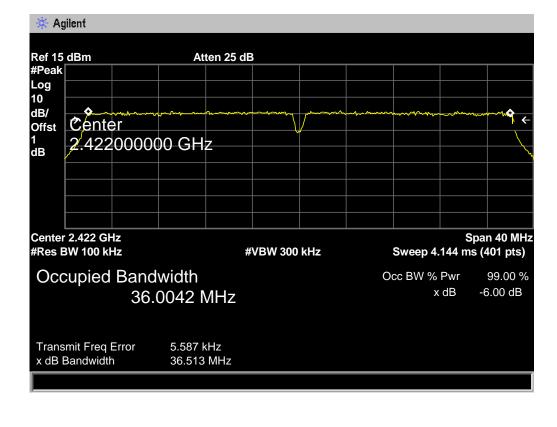
2462 MHz * Agilent Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz Sweep 4 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB 17.6291 MHz x dB Transmit Freq Error -6.860 kHz x dB Bandwidth 17.830 MHz



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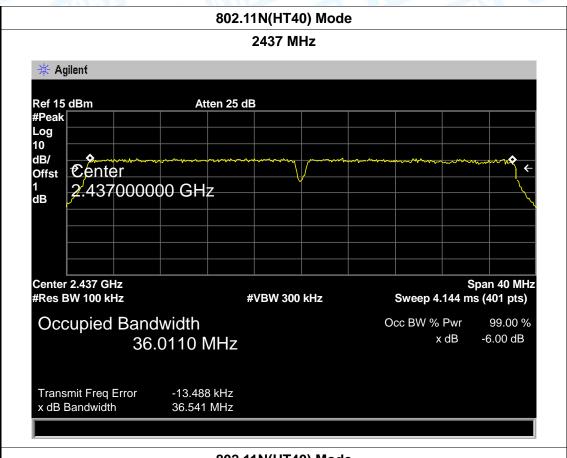
EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequence	uency 6dB Bandwidth 99% Band		Limit
(MHz)	(MHz)	(MHz)	(MHz)
2422	36.513	36.0042	
2437	36.541	36.0110	>=0.5
2452	36.537	36.0107	
802.11N(HT40) Mode			

0.400.0011





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802.11N(HT40) Mode 2452 MHz 🔆 Agilent Atten 25 dB Ref 15 dBm #Peak Log 10 dB/ Center Offst 1 dB 2.452000000 GHz Center 2.452 GHz Span 40 MHz #Res BW 100 kHz Sweep 4.144 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 36.0107 MHz Transmit Freq Error -11.633 kHz x dB Bandwidth 36.537 MHz



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8. Peak Output Power Test

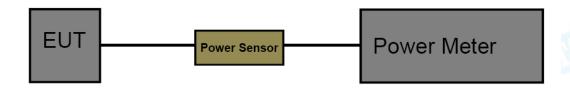
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210			
Test Item Limit Frequency Range(MHz)			
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



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8.5 Test Data

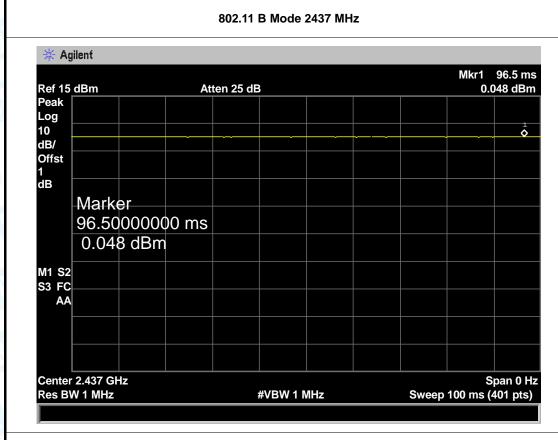
EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	8.96	
802.11b	2437	8.95	
	2462	8.93	
	2412	8.86	
802.11g	2437	8.79	
	2462	8.87	30
902.44 m	2412	8.63	30
802.11n (HT20)	2437	8.62	
(11120)	2462	8.58	
000 44	2422	8.59	
802.11n (HT40)	2437	8.53	
(11140)	2452	8.55	
	Resu	ult: PASS	

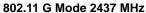
Duty Cycle			
Mode	Channel frequency (MHz)	Test Result	
	2412		
802.11b	2437		
	2462		
	2412		
802.11g	2437		
	2462	- 000/	
000 44	2412	>98%	
802.11n (HT20)	2437		
(11120)	2462		
000 44m	2422		
802.11n	2437		
(HT40)	2452		
Please see belo	w plots		

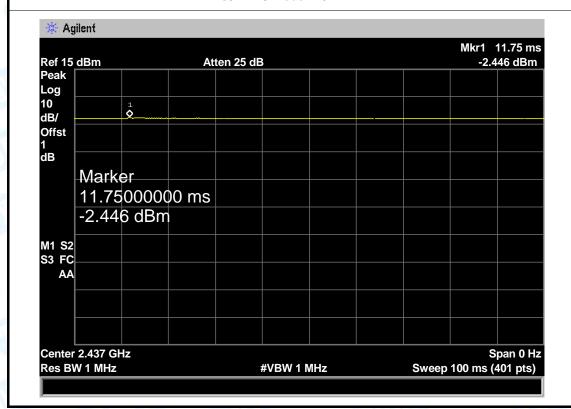


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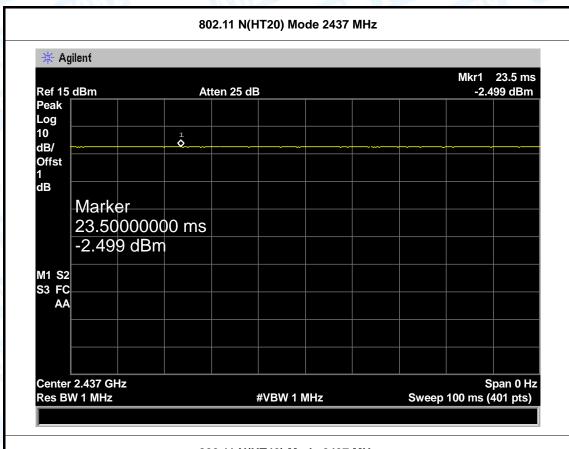


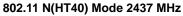


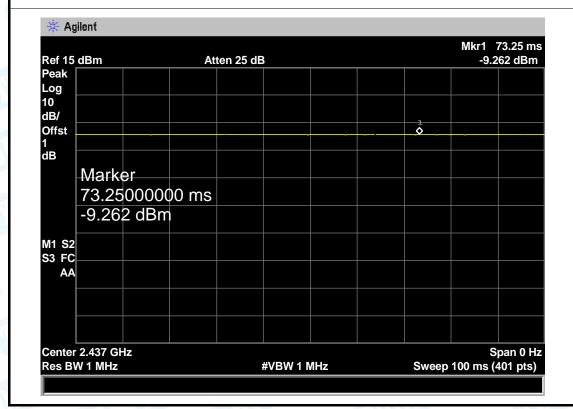


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9. Power Spectral Density Test

9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)			
Test Item Limit Frequency Range(MHz)			
Power Spectral Density 8dBm(in any 3 kHz) 2400~2483.5			

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.



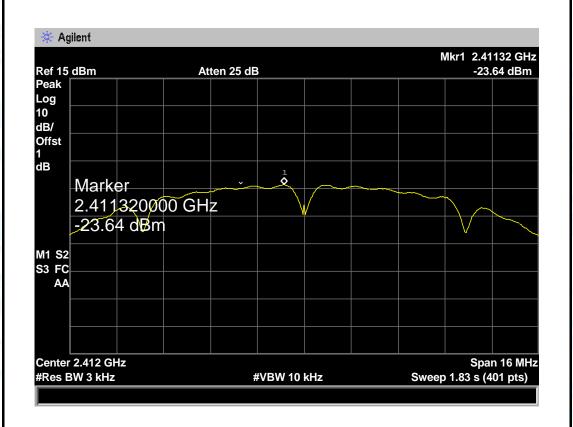
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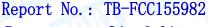
9.5 Test Data

EUT:	Pilot	WILLIAM TO THE	Model:	KR0319
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	AC 120V/	60Hz		
Test Mode:	TX 802.11B Mode			0
Channel Frequency	Channel Frequency Power De		ensity	Limit
(MHz)		(dBm/3	kHz)	(dBm)
2412	2412		64	
2437	2437		52	8
2462	-21.68		88	
802 11B Mode				

2442 1111

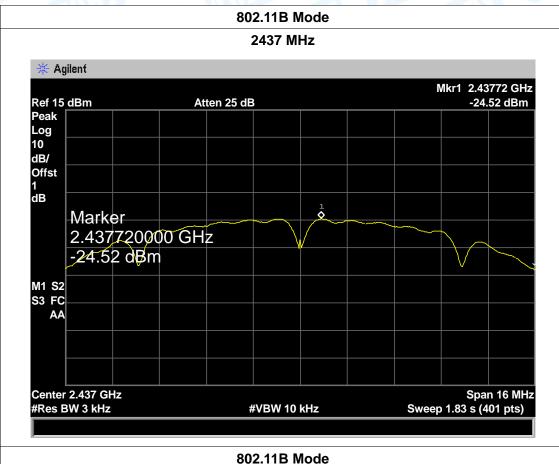


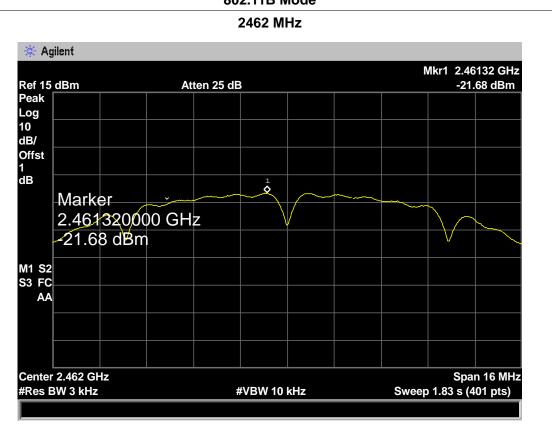






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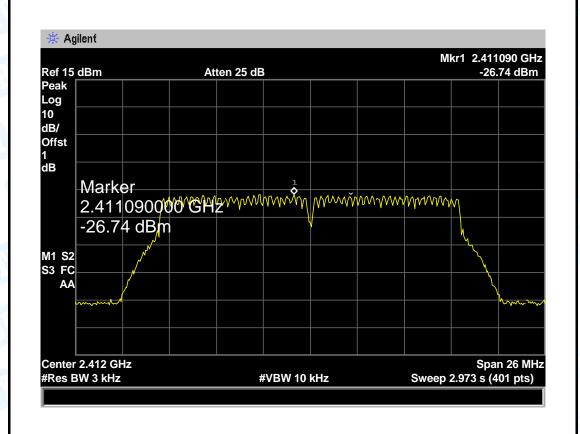


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EUT:	Pilot		Model:		KR0319
Temperature:	25 ℃		Temperatu	ıre:	25 ℃
Test Voltage:	AC 120V/60Hz				
Test Mode:	TX 802.11G Mode				
Channel Freq	uency	Power D	ensity		Limit

Channel Frequency	Power Density	Limit
(MHz)	(dBm/3 kHz)	(dBm)
2412	-26.74	
2437	-27.14	8
2462	-24.09	

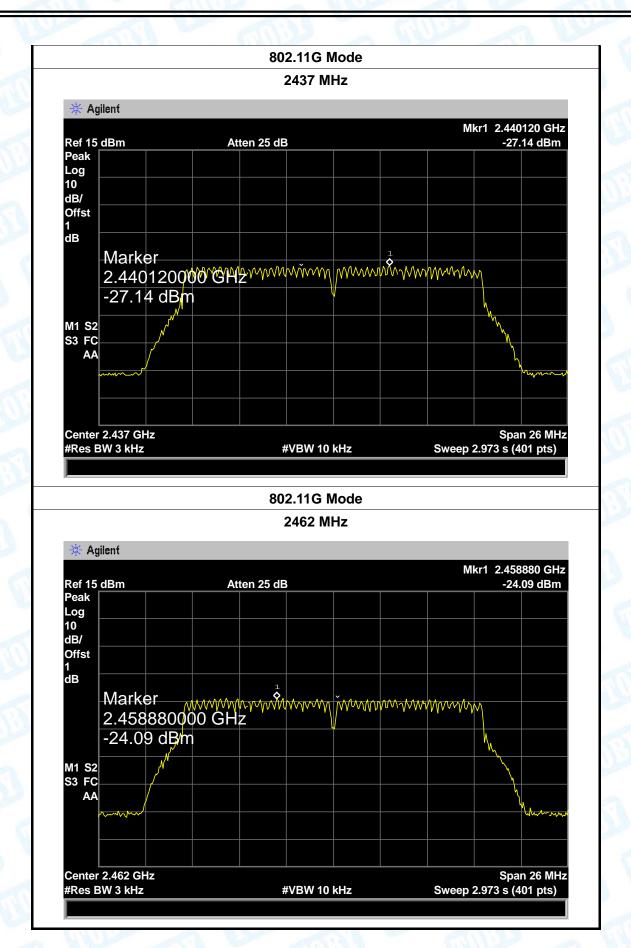
802.11G Mode







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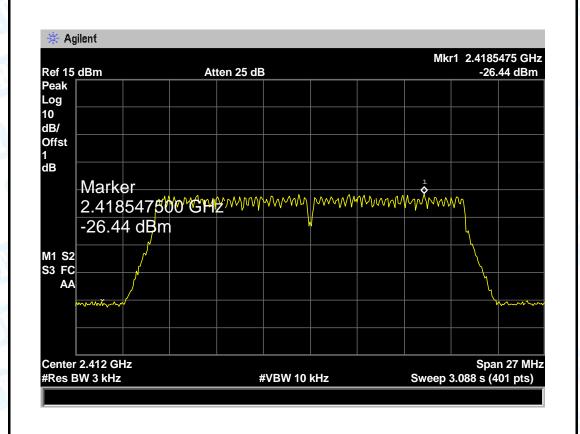
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EUT:	Pilot	Model:	KR0319
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	AC 120V/60Hz	31 6	THE STATE OF
Tost Modo:	TV 902 11N/HT20) Mode		

Test Mode:	TX 802.11N(HT20) Mode	

Channel Frequency	Power Density	Limit
(MHz)	(dBm/3 kHz)	(dBm)
2412	-26.44	
2437	-26.63	8
2462	-23.86	
	*	•

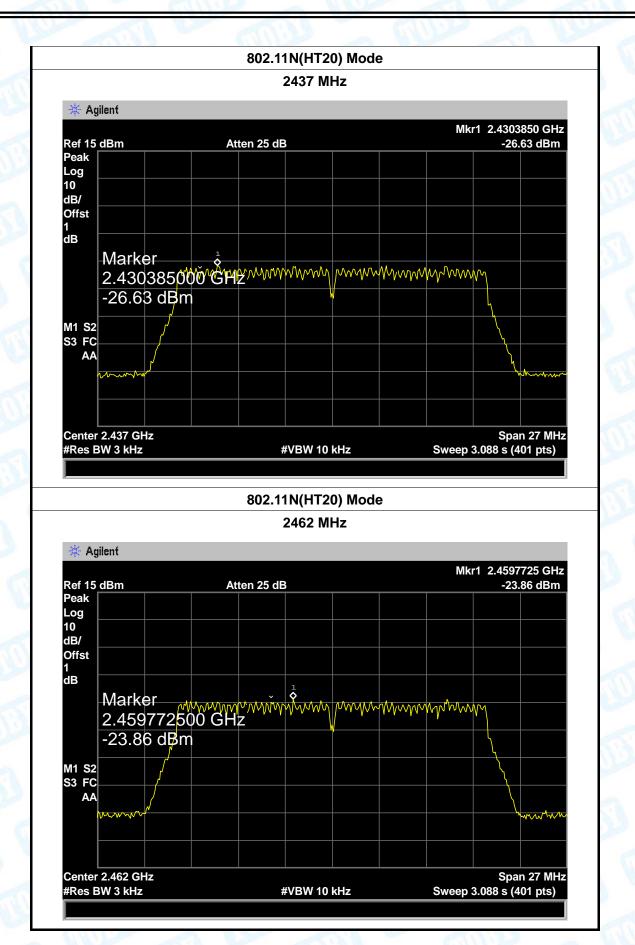
802.11N(HT20) Mode







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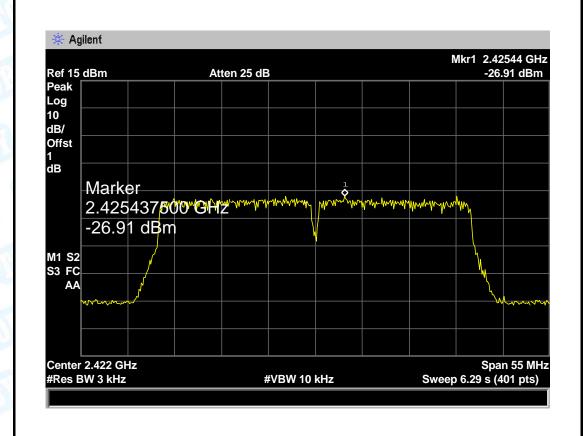


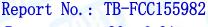
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EUT:	Pilot			Model:	KR0319	
Temperature:	25 ℃			Temperature	: 25 ℃	
Test Voltage:	AC 120V/60Hz					
Test Mode:	TX 802.11N(HT40) Mode					
				• •		

Channel Frequency	Power Density	Limit	
(MHz)	(dBm/3 kHz)	(dBm)	
2422	-26.91		
2437	-26.45	8	
2452	-26.65		

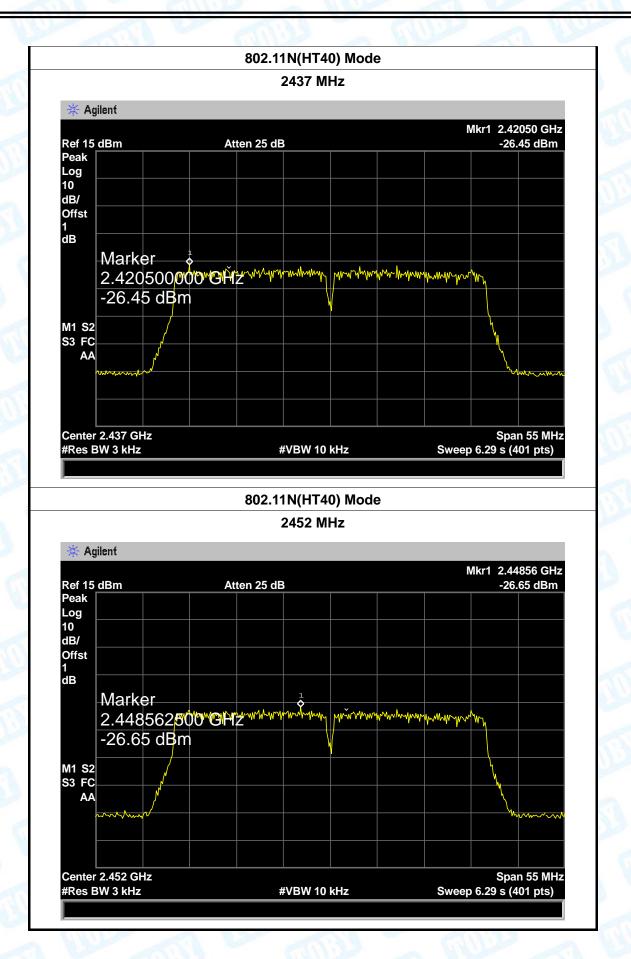
802.11N(HT40) Mode





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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 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.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1dBi, and the antenna de-signed with unique connector and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is a Integral Antenna. It complies with the standard requirement.

Antenna Type					
30	□ Permanent attached antenna				
ann	✓ Unique connector antenna				
	□ Professional installation antenna				

----END OF REPORT----