

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC147277

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FCC Radio Test Report FCC ID: 2AH3E-NVR02

Original Grant

Report No. : TB-FCC147277

Applicant: OPCOM O.E.(DONG GUAN)INC.

Equipment Under Test (EUT)

EUT Name: Wireless NVR

Model No. : NVR02

Series No. : N/A

Brand Name : N/A

Receipt Date : 2016-03-20

Test Date : 2016-03-21 to 2016-04-18

Issue Date : 2016-04-19

Standards : FCC Part 15, Subpart C (15.247:2015)

Test Method : ANSI C63.10: 2013

Conclusions : PASS

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

the testing carried out on one sample. The results contained the same product. The manufacture

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: OPCOM O.E.(DONG GUAN)INC.

Address : Gu Cun Industry Estate, Dajing Countryside Committee,

Houjie Town, Dongguan City, Guang Dong Province, China

Manufacturer : Shenzhen Annidigital Technology Co., Ltd

Address : 3rd Floor, Building D, Shangxue HiTech Industrial Park, Bantian,

Longgang District, Shenzhen City, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	1	Wireless NVR	Wireless NVR				
Models No.		NVR02	IVR02				
Model Difference	MOBILE TOBIS						
		Operation Frequency: 2408MHz~2468MHz					
		Number of Channel:	31 channels see note(3)				
Product		RF Output Power:	16.94 dBm				
Description		Antenna Gain:	3 dBi Dipole Antenna				
		Modulation Type:	GFSK				
ORD.		Bit Rate of Transmitter:	4 Mbps				
Power Supply	:	DC power supplied by AC/DC Adapter.					
Power Rating	g : AC/DC Adapter: Input:100~240V, 50/60Hz 0.6A Output:12V, 2000mA		z 0.6A				
Connecting I/O Port(S)		Please refer to the User's	Please refer to the User's Manual				

Note:

- (1) This Test Report is FCC Part 15.247 for 2.4G ISM, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r05.
- (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	2408	12	2430	23	2452
02	2410	13	2432	24	2454
03	2412	14	2434	25	2456
04	2414	15	2436	26	2458
05	2416	16	2438	27	2460
06	2418	17	2440	28	2462
07	2420	18	2442	29	2464
08	2422	19	2444	30	2466
09	2424	20	2446	31	2468
10	2426	21	2448		
11	2428	22	2450		

(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	TX Mode

For Radiated Test					
Final Test Mode Description					
Mode 2	TX Mode Channel 01/17/31				

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:

TX Mode: GFSK (4 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 mobile 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.

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	The state of the s
Channel	CH 01	CH 18	CH 32
2.4G ISM	DEF	DEF	DEF



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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})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

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	Tool How	Tural area (A)	Remark
FCC	IC	Test Item	Judgment	
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	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

Conducte	d Emission Te	est			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 08, 2015	Aug. 07, 2016
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Radiation	Emission Tes	it T			Oal Bara
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 07, 2015	Aug. 06, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 26, 2016	Mar. 25, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



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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

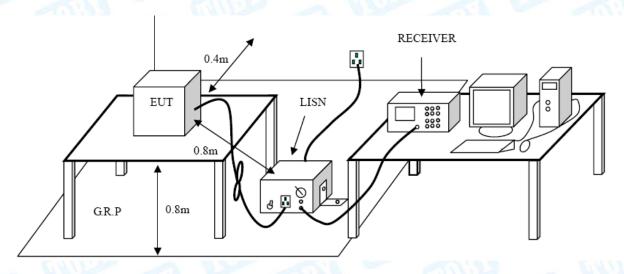
Conducted Emission Test Limit

Eroguanov	Maximum RF Line Voltage (dBμV)			
Frequency	Quasi-peak 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



4.3 Test Procedure

The EUT was placed 0.8 meters 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.



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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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EUT:	Wirele	ess NVR	Mo	del Name :	l	VVR02	
emperature:	25 ℃	Call!	Re	lative Humic	dity:	55%	A Brown
Test Voltage: AC		20V/60Hz		I Die	G	11:30	
erminal:	Line		Alle				M
est Mode:	TX Mo	ode		MILLER		1 N	
Remark:	Only v	worse case i	s reported			33	
30 dBuV		Morridan	to the transfer for the transfer of the transf	high popular for his for the forest of the f	hand belong to be the first	QP: AVG:	per AV
20 0.150	0.5		(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∨	dB	dBu∀	dBuV	dB	Detector
	0.1620	39.27	10.12	49.39		-15.97	QP
).1620	23.19	10.12	33.31		-22.05	AVG
).1980	34.76	10.12	44.88		-18.81	QP
).1980	22.36	10.12	32.48		-21.21	AVG
).2420	29.67	10.11	39.78		-22.24	QP
).2420	20.86	10.11	30.97 43.15		-21.05 -15.81	AVG
7 0	2500		10.07	43.13	JO.90	-15.61	QP
	3500	33.08		25.04	10.06	12 12	A\/_
8 * 0	.3500	25.77	10.07	35.84		-13.12	AVG
8 * 0 9 0).3500).6260	25.77 25.79	10.07 10.02	35.81	56.00	-20.19	QP
8 * 0 9 0 10 0	0.3500 0.6260 0.6260	25.77 25.79 16.11	10.07 10.02 10.02	35.81 26.13	56.00 46.00	-20.19 -19.87	QP AVG
8 * 0 9 0 10 0 11 0).3500).6260	25.77 25.79	10.07 10.02	35.81	56.00 46.00 56.00	-20.19	QP



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EUT:	Wirel	ess NVR	Me	odel Name :		NVR02	
Temperature:	25 °C		Re	lative Humi	dity:	55%	Allen
Test Voltage:	AC 1	20V/60Hz	100		(ca)	URA	
Terminal:	Neuti	al	AHO.		1 6		
Test Mode:	TX M	ode		(all)		0	MA
Remark:	Only	worse case	is reported	-	1	113	
30 dBuV	Mary Mary	Morran	Anny his high se dig they will stake it	the the comment of the second of the comment of the	gold for the state of the state	QP: AVG:	peal
0.150 No. Mk.	0.5 Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	30.000
1 0	.1582	40.53	10.12	50.65		-14.90	QP
	.1582	24.23	10.12	34.35		-14.90	AVG
	.1980	36.89	10.12	47.01		-16.68	QP
	.1980	23.63	10.12	33.75		-19.94	AVG
	.2380	33.80	10.12	43.91		-18.25	QP
	.2380	22.90	10.11	33.01		-19.15	AVG
	.3260	34.71	10.08	44.79		-14.76	QP
	.3260	30.50	10.08	40.58	49.55		AVG
	.3540	35.44	10.07	45.51		-13.36	QP
	.3540	31.91	10.07	41.98		-6.89	AVG
							QP
							AVG
12 0	.5100 .5100 Over limit	23.16 16.57	10.02	33.18 26.59		-22.82 -19.41	



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EUT:	Wirele	ess NVR	Mo	odel Name :		NVR02	
emperature:	25 ℃	CIN	Re	lative Humic	dity:	55%	ABOVE
Test Voltage:	AC 24	10V/60Hz	1		Call	TI'S	
Terminal:	Line		Alto.		1		
Test Mode:	TX M	ode		Will Do		O N	BUL
Remark:	Only	worse case i	s reported			33	
80.0 dBuV						QP:	1
						AVG:	
30	Mond with	Manus Marine	Ž~~~X	Y My Mary May	when we have	and the same of th	peal
-20 0.150 No. Mk.	0.5	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	30.000
INO. IVIK.	i ieq.	Level	racion	шеш		010	
	MHz	dBuV	dB	dBu∀	dBuV	dB	L)etector
1 0	MHz .1539	dBu∀ 42.59	dB 10.12	dBu∀ 52.71	dBu∀ 65.78	dB -13.07	Detector
	.1539	dBu∨ 42.59 24.28	10.12	52.71	65.78	-13.07	QP
2 0	.1539	42.59 24.28	10.12 10.12	52.71 34.40	65.78 55.78	-13.07	QP AVG
2 0	.1539	42.59	10.12	52.71	65.78 55.78 59.45	-13.07 -21.38 -10.54	QP
2 0 3 * 0 4 0	.1539	42.59 24.28 38.83	10.12 10.12 10.08	52.71 34.40 48.91	65.78 55.78 59.45 49.45	-13.07 -21.38 -10.54 -16.43	QP AVG QP AVG
2 0 3 * 0 4 0 5 1	.1539 .1539 .3300 .3300 .1539	42.59 24.28 38.83 22.94	10.12 10.12 10.08 10.08 10.14	52.71 34.40 48.91 33.02 39.65	65.78 55.78 59.45 49.45 56.00	-13.07 -21.38 -10.54 -16.43	QP AVG QP AVG
2 0 3 * 0 4 0 5 1 6 1	.1539 .1539 .3300	42.59 24.28 38.83 22.94 29.51	10.12 10.12 10.08 10.08	52.71 34.40 48.91 33.02	65.78 55.78 59.45 49.45 56.00 46.00	-13.07 -21.38 -10.54 -16.43 -16.35	QP AVG QP AVG
2 0 3 * 0 4 0 5 1 6 1 7 1	.1539 .1539 .3300 .3300 .1539	42.59 24.28 38.83 22.94 29.51 19.65 30.20	10.12 10.12 10.08 10.08 10.14 10.14 10.11	52.71 34.40 48.91 33.02 39.65 29.79 40.31	65.78 55.78 59.45 49.45 56.00 46.00 56.00	-13.07 -21.38 -10.54 -16.43 -16.35 -16.21	QP AVG QP AVG QP AVG
2 0 3 * 0 4 0 5 1 6 1 7 1 8 1	.1539 .1539 .3300 .3300 .1539 .1539 .4738	42.59 24.28 38.83 22.94 29.51 19.65 30.20 17.59	10.12 10.12 10.08 10.08 10.14 10.14 10.11 10.11	52.71 34.40 48.91 33.02 39.65 29.79	65.78 55.78 59.45 49.45 56.00 46.00 56.00	-13.07 -21.38 -10.54 -16.43 -16.35 -16.21 -15.69 -18.30	QP AVG QP AVG QP AVG
2 0 3 * 0 4 0 5 1 6 1 7 1 8 1 9 2	.1539 .1539 .3300 .3300 .1539 .1539 .4738 .4738	42.59 24.28 38.83 22.94 29.51 19.65 30.20 17.59 27.28	10.12 10.12 10.08 10.08 10.14 10.14 10.11 10.11	52.71 34.40 48.91 33.02 39.65 29.79 40.31 27.70 37.34	65.78 55.78 59.45 49.45 56.00 46.00 46.00 56.00	-13.07 -21.38 -10.54 -16.43 -16.35 -16.21 -15.69 -18.30 -18.66	QP AVG QP AVG QP AVG QP AVG
2 0 3 * 0 4 0 5 1 6 1 7 1 8 1 9 2	.1539 .1539 .3300 .3300 .1539 .1539 .4738	42.59 24.28 38.83 22.94 29.51 19.65 30.20 17.59	10.12 10.12 10.08 10.08 10.14 10.14 10.11 10.11	52.71 34.40 48.91 33.02 39.65 29.79 40.31 27.70	65.78 55.78 59.45 49.45 56.00 46.00 56.00 56.00 46.00	-13.07 -21.38 -10.54 -16.43 -16.35 -16.21 -15.69 -18.30	QP AVG QP AVG QP AVG

*:Maximum data x:Over limit !:over margin



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EUT:	Wireless NVR	Model N	ame :	NVR02	
Temperature:	25 ℃	Relative	Humidity:	55%	Alban
Test Voltage:	AC 240V/60Hz		6	11111	
Terminal:	Neutral	A LIVE			
Test Mode:	TX Mode		1000	~ N	N. Carrier
Remark:	Only worse cas	e is reported		115	
80.0 dBuV					
				QP: AVG:	
				Avu.	
Way X					
A MANAGAM MANAGAM	×		_		
W. W.	Jary was have been broken	War market and the same of the	Na office and	100	X
30	MANAGER AND	Marine Marine	A A C the mand may offer the manager of the	port there is a second	$\overline{\wedge}$
	1 . A.M. M. 1	""V\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Maranaman	wante a selection of	hy hay
				ewake. No	peak
					AVG
20					
0.150	0.5	(MHz)	5		30.000
	Reading	Correct Mea	sure-		
	Freq. Level		ent Limit		
	MHz dBu∨	dB dB			Detector
	1660 34.72	10.12 44.			QP
	1660 21.39	10.12 31.	51 55.15	-23.64	AVG
2 0					
3 0.	2340 33.38	10.11 43.			QP
	2340 33.38 2340 26.15	10.11 43. 10.11 36.		-18.81	
4 0.		10.11 36.	26 52.30		AVG
4 0. 5 0.	2340 26.15	10.11 36. 10.08 42.	26 52.30 43 59.45	-16.04	AVG QP
4 0. 5 0. 6 0.	2340 26.15 3300 32.35	10.11 36. 10.08 42. 10.08 33.	26 52.30 43 59.45 18 49.45	-16.04 -17.02	AVG QP AVG
4 0. 5 0. 6 0. 7 1.	2340 26.15 3300 32.35 3300 23.10	10.11 36. 10.08 42. 10.08 33. 10.14 37.	26 52.30 43 59.45 18 49.45 12 56.00	-16.04 5 -17.02 5 -16.27	AVG QP AVG QP
4 0. 5 0. 6 0. 7 1. 8 * 1.	2340 26.15 3300 32.35 3300 23.10 1539 26.98	10.11 36. 10.08 42. 10.08 33. 10.14 37. 10.14 31.	26 52.30 43 59.45 18 49.45 12 56.00 46 46.00	-16.04 5 -17.02 5 -16.27 0 -18.88	AVG QP AVG QP AVG
4 0. 5 0. 6 0. 7 1. 8 * 1. 9 3.	2340 26.15 3300 32.35 3300 23.10 1539 26.98 1539 21.32	10.11 36. 10.08 42. 10.08 33. 10.14 37. 10.14 31. 10.06 31.	26 52.30 43 59.45 18 49.45 12 56.00 46 46.00 53 56.00	-16.04 -17.02 -16.27 -18.88 -14.54	AVG QP AVG QP AVG
4 0. 5 0. 6 0. 7 1. 8 * 1. 9 3. 10 3.	2340 26.15 3300 32.35 3300 23.10 1539 26.98 1539 21.32 2100 21.47	10.11 36. 10.08 42. 10.08 33. 10.14 37. 10.14 31. 10.06 31. 10.06 24.	26 52.30 43 59.45 18 49.45 12 56.00 46 46.00 53 56.00 31 46.00	-16.04 -17.02 -16.27 -18.88 -14.54 -24.47	AVG QP AVG QP AVG QP AVG
4 0. 5 0. 6 0. 7 1. 8 * 1. 9 3. 10 3. 11 21.	2340 26.15 3300 32.35 3300 23.10 1539 26.98 1539 21.32 2100 21.47 2100 14.25	10.11 36. 10.08 42. 10.08 33. 10.14 37. 10.14 31. 10.06 31. 10.06 24. 10.06 32.	26 52.30 43 59.45 18 49.45 12 56.00 46 46.00 53 56.00 31 46.00 88 60.00	-16.04 -17.02 -16.27 -18.88 -14.54 -24.47 -21.69	AVG QP AVG QP AVG QP QP



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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 (9kHz~1000MHz)

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	Class A (dBuV	/m)(at 3 M)	Class B (dBuV/m)(at 3 M)		
(MHz)	Peak	Peak Average		Average	
Above 1000	80	60	74	54	

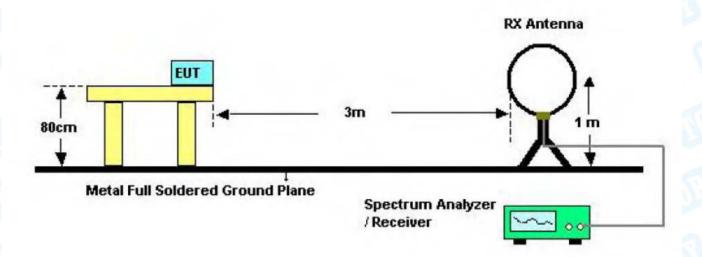
Note:

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

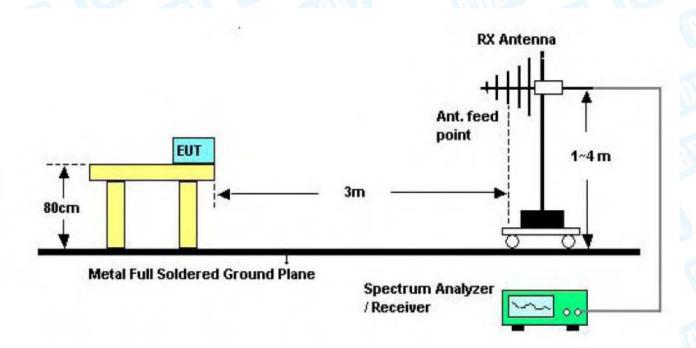


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5.2 Test Setup



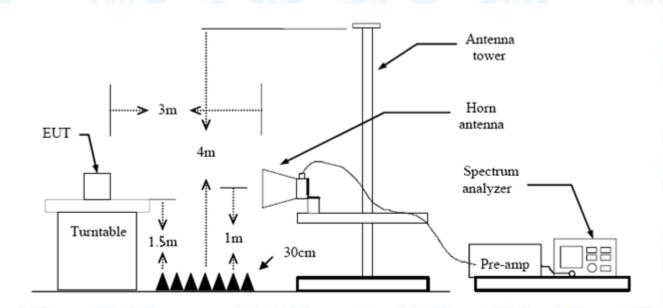
Below 30MHz Test Setup



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 1.5m 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.

5.4 EUT Operating Condition

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



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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.



Page: 20 of 43

Temperature:		R N	lodel:	NVR02	
	25 ℃	R	elative Humidity:	55%	
Test Voltage:	AC 120V/60H	Hz	211	THE	
Ant. Pol.	Horizontal			Con A	
Test Mode:	TX Mode 240	08MHz			A Section
Remark:	Only worse of	case is reported			
80.0 dBuV/m					
30		1 1 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 4	FCC 15C 3M Radiation Margin -6 X X	dB
20 30.000 40 50	60 70 80	(MHz)	300 400	500 600 700	1000.00
30.000 40 50	60 70 80 Read	ing Correct	Measure-		1000.00
20 30.000 40 50 No. Mk. F	Read Freq. Leve	ing Correct el Factor	Measure- ment Lim	nit Over	
20 30.000 40 50 No. Mk. F	Readi Freq. Leve	ing Correct el Factor	Measure- ment Lim	nit Over	Detecto
No. Mk. F	Readi Freq. Leve MHz dBu\ 3.7548 50.1	ing Correct Factor dB/m 5 -20.76	Measure- ment Lim dBuV/m dBu 29.39 43.	nit Over V/m dB .50 -14.11	Detecto
No. Mk. F	Readi Freq. Leve	ing Correct Factor dB/m 5 -20.76	Measure- ment Lim dBuV/m dBu 29.39 43.	nit Over	Detector peak
No. Mk. F 1 163 2 ! 191	Readi Freq. Leve MHz dBu\ 3.7548 50.1	ing Correct Factor V dB/m -20.76 5 -20.81	Measure- ment Lim dBuV/m dBu 29.39 43.	nit Over W/m dB .50 -14.11 .50 -4.76	Detecto
No. Mk. F 1 163 2 ! 191 3 274	Readi Freq. Leve MHz dBu\ 3.7548 50.1 .7450 59.5	ing Correct Factor V dB/m 5 -20.76 5 -20.81 65 -17.60	Measure- ment Lim dBuV/m dBu 29.39 43. 38.74 43. 36.75 46.	nit Over W/m dB .50 -14.11 .50 -4.76	Detector peak
No. Mk. F 1 163 2 ! 191 3 274 4 383	Readi Leve MHz dBu\ 3.7548 50.1 .7450 59.5 .1938 54.3	ing Correct Factor V dB/m 5 -20.76 65 -20.81 65 -17.60 60 -13.87	Measure- ment Lim dBuV/m dBu 29.39 43. 38.74 43. 36.75 46. 37.03 46.	nit Over N/m dB .50 -14.11 .50 -4.76 .00 -9.25	Detector peak peak



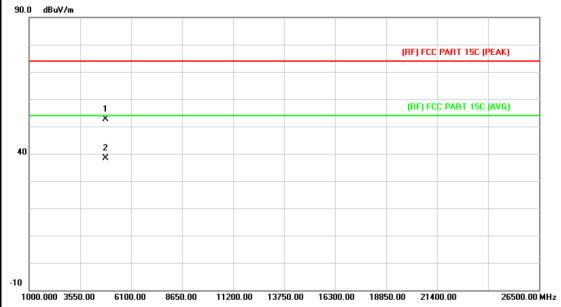
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EUT:	Wirel	ess NVR	M	odel:	N	IVR02	1017
Temperature	: 25 °C		Re	elative Humi	dity: 5	5%	A STATE
Test Voltage:	AC 1	20V/60Hz		18	CU	133	
Ant. Pol.	Vertic	cal	Alto		1 63		MI)
Test Mode:	TX M	lode 2408M	Hz	WHI DE	2		Market
Remark:	Only	worse case	is reported		and in	13	
90.0 dBuV/m							
40	No contract of the contract of	X Managhapi		* A A A A A A A A A A A A A A A A A A A	(RF)FCC	15C 3M Radiatio	S dB
30.000 40	50 60 70	80	(MHz)	300	400	500 600 700	1000.00
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 !	75.4462	59.81	-23.43	36.38	40.00	-3.62	peak
2	170.7923	56.71	-21.13	35.58	43.50	-7.92	peak
3 ! 1	191.7450	60.17	-20.81	39.36	43.50	-4.14	peak
4 2	274.1938	54.58	-17.60	36.98	46.00	-9.02	peak
5 ! 5	576.6443	52.83	-10.09	42.74	46.00	-3.26	peak
6 * 7	768.7481	49.97	-6.82	43.15	46.00	-2.85	peak



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EUT:	Wireless NVR	Model:	NVR02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	(1) I (1)	
Ant. Pol.	Horizontal		
Test Mode:	TX Mode 2408MHz		The same of the sa
Remark:	No report for the emission	on which more than 10	dB below the
	prescribed limit.	2 m	
i			

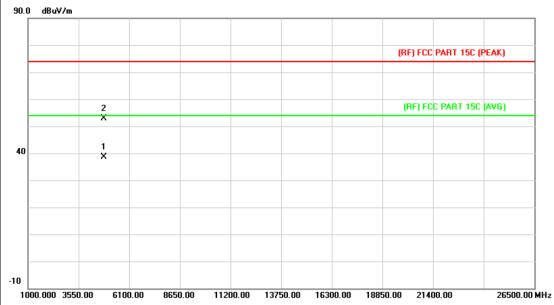


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4815.300	39.22	13.51	52.73	74.00	-21.27	peak
2	*	4815.600	24.84	13.51	38.35	54.00	-15.65	AVG



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EUT:	Wireless NVR	Model:	NVR02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	01 - 6	MIN TO
Ant. Pol.	Vertical		
Test Mode:	TX Mode 2408MHz		THE PARTY OF THE P
Remark:	No report for the emission	n which more than 10 o	dB below the
	prescribed limit.	J 13	

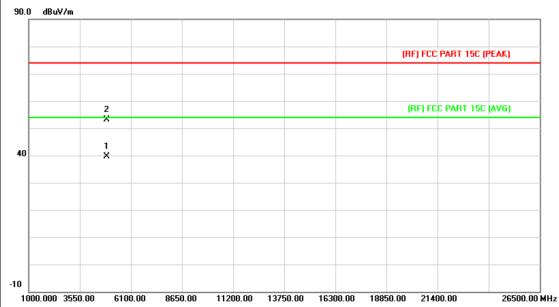


No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4816.139	25.22	13.51	38.73	54.00	-15.27	AVG
2		4816.229	39.48	13.51	52.99	74.00	-21.01	peak



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EUT:	Wireless NVR	Model:	NVR02				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz		THE STATE OF				
Ant. Pol.	Horizontal						
Test Mode:	TX Mode 2440MHz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.	22 m					

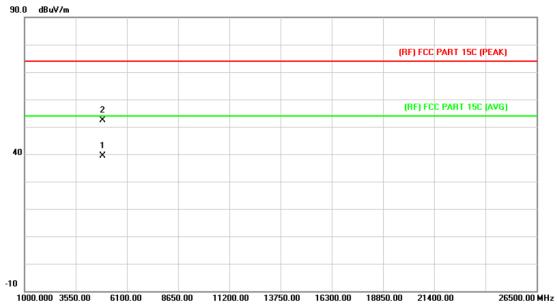


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4880.076	25.73	13.89	39.62	54.00	-14.38	AVG
2			4880.127	39.31	13.89	53.20	74.00	-20.80	peak



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EUT:	Wireless NVR	Model:	NVR02						
Temperature:	25 ℃	25 ℃ Relative Humidity: 55%							
Test Voltage:	AC 120V/60Hz								
Ant. Pol.	Vertical								
Test Mode:	TX Mode 2440MHz	TX Mode 2440MHz							
Remark:	No report for the emission	n which more than 10	dB below the						
	prescribed limit.	2 0 13							

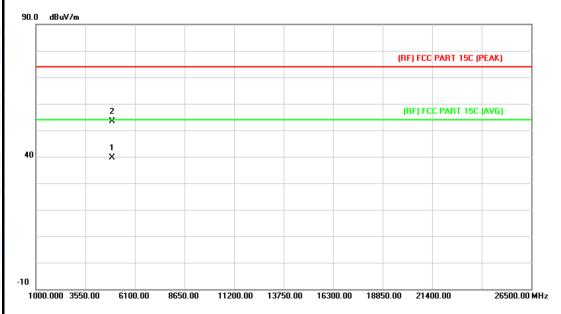


	No.	Mk.	Freq.			Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4879.500	25.53	13.89	39.42	54.00	-14.58	AVG
2			4879.891	38.55	13.89	52.44	74.00	-21.56	peak



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EUT:	Wireless NVR	Model:	NVR02				
Temperature:25 °CRelative Humidity:55%							
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Horizontal						
Test Mode:	TX Mode 2468MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

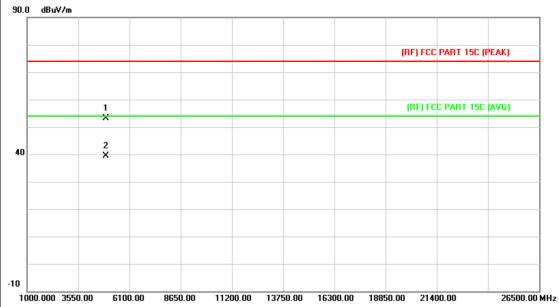


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4935.597	25.33	14.22	39.55	54.00	-14.45	AVG
2		4936.316	39.16	14.22	53.38	74.00	-20.62	peak



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EUT:	Wireless NVR	Model:	NVR02					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Vertical							
Test Mode:	TX Mode 2468MHz							
Remark:	No report for the emissio prescribed limit.	n which more than 10 o	dB below the					



No	. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4935.548	38.86	14.22	53.08	74.00	-20.92	peak
2	*	4936.084	25.27	14.22	39.49	54.00	-14.51	AVG



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6. Restricted Bands Requirement

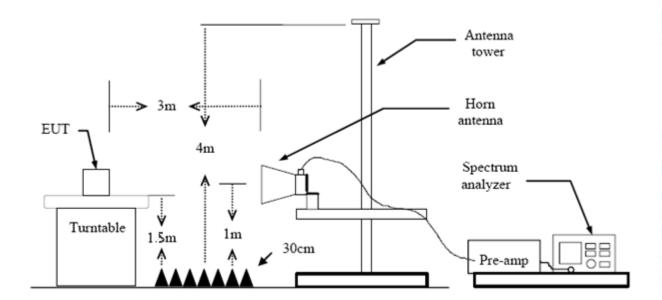
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dBuV/m)(at 3 M)				
Band (MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

6.2 Test Setup



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 0.8m 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 1.5m 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.



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(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

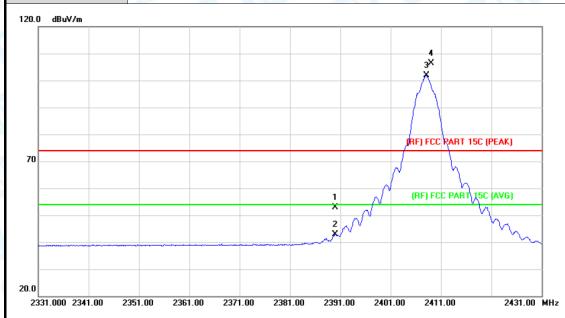
Please see the next page.



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(1) Radiation Test

EUT:	Wireless NVR	Model:	NVR02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	U. A. C.	
Ant. Pol.	Horizontal		AMUL STREET
Test Mode:	TX Mode 2408MHz		
Remark:	N/A	J 13	



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	52.14	0.77	52.91	74.00	-21.09	peak
2		2390.000	42.20	0.77	42.97	54.00	-11.03	AVG
3	*	2408.100	101.10	0.85	101.95	Fundamenta	al Frequency	AVG
4	X	2409.000	105.45	0.85	106.30	Fundamenta	al Frequency	peak



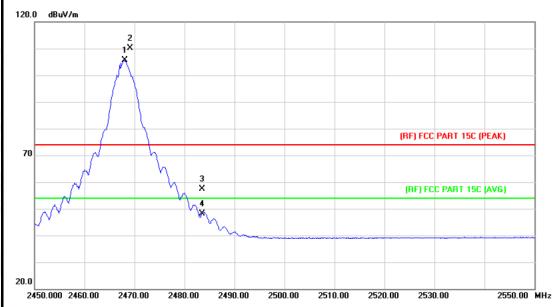
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70 N/A	EUT:		Wireless NVR			Model:			NVR02			
Ant. Pol. Vertical TX Mode 2408MHz Remark: N/A 120.0 dBuV/m IRF) FCC PART 15C (PEAK) 20.0	Ten	peratur	e:	25 ℃			Relativ	e Hum	idity:	55%		
TX Mode 2408MHz Remark: N/A 120.0 dBuW/m	Tes	t Voltag	e:	AC 1	20V/60Hz	Bist		6	Cim			
70	Ant	. Pol.		Vertical								
120.0 dBuV/m (RF) FCC PART 15C (PEAK) 1 (RF) FCC PART 15C (AVG) X 20.0	Tes	Test Mode:		TX N	lode 2408M	Hz	6	4/1/20		~ N	MARKET	
70 (RF) FCC PART 15C (PEAK) 1 (RF) FCC PART 15C (AVG) 2 X	Ren	nark:		N/A	ARA	1	A VE			7:13		
70	120.0) dBuV/m										
	20.0	331 000 2341	nn 2	351.00	2361.00 237	no 2381	X 2 X	~~	(RF)	FCC PART 15C (I	(AVG)	
		NO. IVIK.			Level							
	1											
MHz dBuV dB/m dBuV/m dBuV/m dB Detecto											<u>'</u>	
MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 2390.000 51.35 0.77 52.12 74.00 -21.88 peak	2										41/0	
MHz dBuV dBuV dBuV/m dBuV/m dBuV/m dBuV/m dB Detector 1 2390.000 51.35 0.77 52.12 74.00 -21.88 peak 2 2390.000 41.11 0.77 41.88 54.00 -12.12 AVG	_		2408		100.04				Fundam	nental Frequen		
MHz dBuV dB _m dBuV/m dBuV/m dBuV/m dB Detector 1 2390.000 51.35 0.77 52.12 74.00 -21.88 peak 2 2390.000 41.11 0.77 41.88 54.00 -12.12 AVG 3 * 2408.000 100.04 0.85 100.89 Fundamental Frequency AVG						0.85	4.0	~~~		ental Frequen	_{cv} peak	



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EUT:	Wireless NVR	Model:	NVR02			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60Hz						
Ant. Pol.	Horizontal					
Test Mode:	TX Mode 2468MHz					
Remark:	N/A					

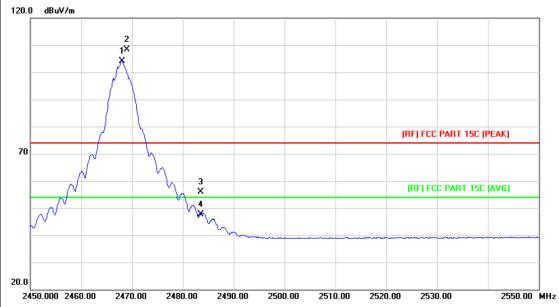


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2468.000	104.41	1.11	105.52	Fundamental	Frequency	AVG
2	Χ	2469.100	108.95	1.11	110.06	Fundamenta	Frequency	peak
3		2483.500	56.29	1.17	57.46	74.00	-16.54	peak
4		2483.500	46.85	1.17	48.02	54.00	-5.98	AVG



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EUT:	Wireless NVR	Model:	NVR02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX Mode 2468MHz		
Remark:	N/A		



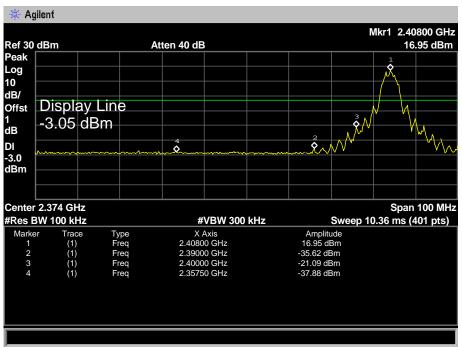
No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2468.100	102.91	1.11	104.02	Fundamental	Frequency	AVG
2	X	2469.000	107.24	1.11	108.35	Fundamental	Frequency	peak
3		2483.500	54.83	1.17	56.00	74.00	-18.00	peak
4		2483.500	46.49	1.17	47.66	54.00	-6.34	AVG



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(2) Conducted Test

EUT:	Wireless NVR	Model:	NVR02	
Temperature:	25 ℃	25 °C Relative Humidity:		
Test Voltage:	AC 120V/60Hz			
Test Mode:	TX Mode 2408MHz / TX Mode 2468MHz			
Remark:	The EUT is programed in continuously transmitting mode			







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7. Bandwidth Test

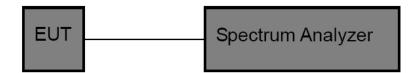
7.1 Test Standard and Limit

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

7.1.2 Test Limit

FCC	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, middle and high channel for the test.



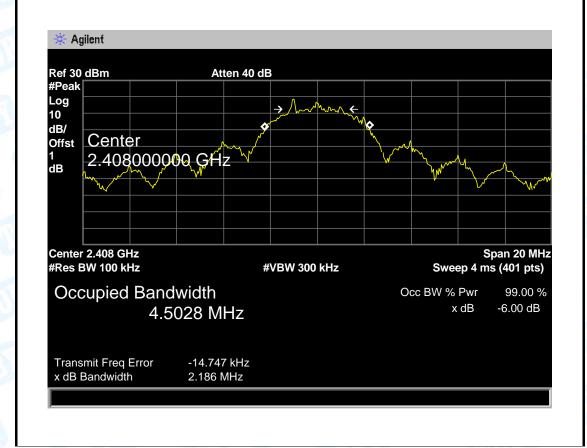
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7.5 Test Data

EUT:	Wireless NVR	Model:	NVR02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX Mode	a True	
Channel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2408	2.186	4.5028	
2440	2.341	4.6325	>=0.5
2468	2.197	4.6251	

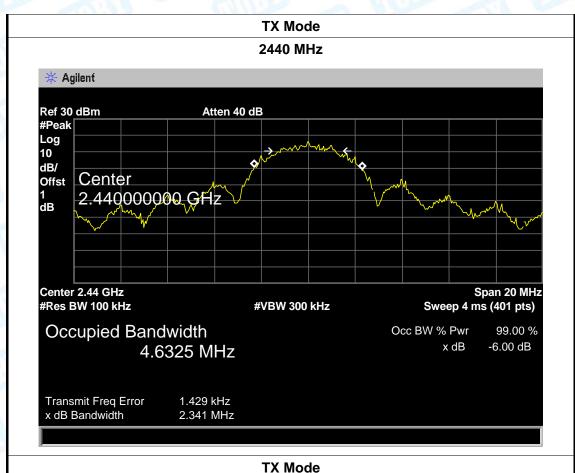
TX Mode

2408 MHz





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2468 MHz 🔆 Agilent Ref 30 dBm Atten 40 dB #Peak Log 10 dB/ Center Offst 2.468000000 GHz 1 dB Center 2.468 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 x dB 4.6251 MHz Transmit Freq Error -11.004 kHz x dB Bandwidth 2.197 MHz



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8. Peak Output Power Test

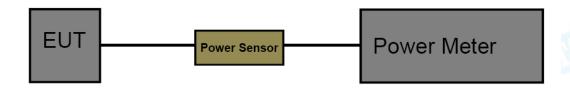
8.1 Test Standard and Limit

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 v03r05.

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

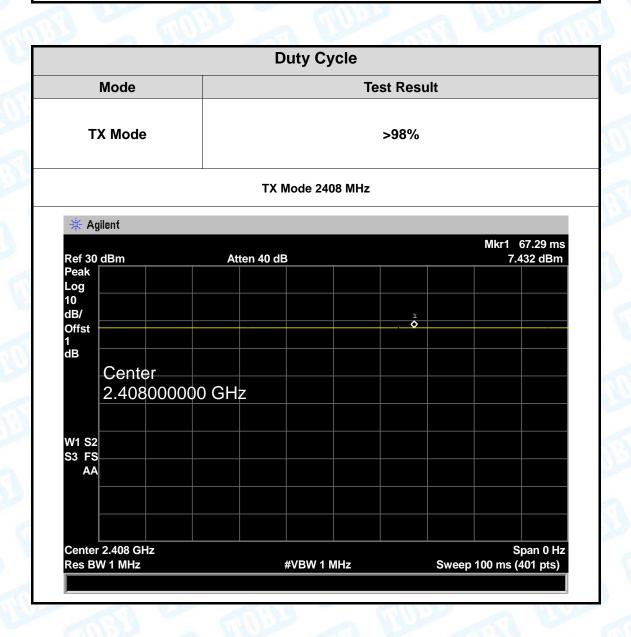
The EUT was set to continuously transmitting in the max power during the test.



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8.5 Test Data

EUT:	Wireless NVR	Model Name :	NVR02	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60Hz		an u	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
	2408	16.51		
TX Mode	2440	16.60	30	
	2468	16.94		
Result: PASS				





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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 v03r05.

- (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, middle and high channel for the test.

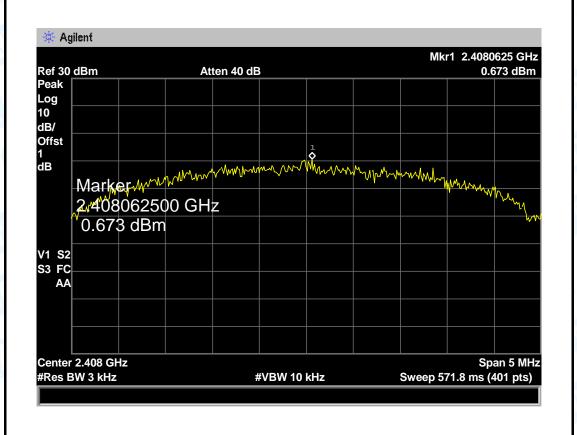


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9.5 Test Data

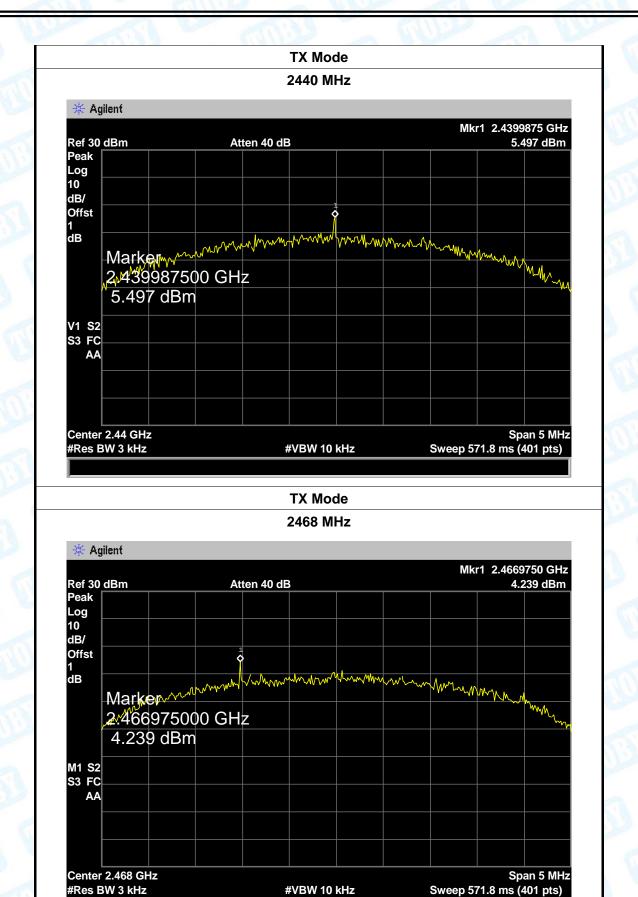
EUT:	Wireless	NVR	Model:	NVR02	
Temperature:	25 ℃		Relative Humidit	y: 55%	
Test Voltage:	AC 120V/	60Hz			
Test Mode:	TX Mod	е	2 BATTLE	10	
Channel Frequency	uency	Power Density		Limit (dBm)	
(MHz)		(3 kHz	/dBm)		
2408		0.6	573		
2440		5.497		8	
2468		4.2	:39		
TX Mode					

2408 MHz





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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 3 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

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

	Antenna Type
33	□ Permanent attached antenna
Em.	☑ Unique connector antenna
	□ Professional installation antenna