

FCC Test Report

Product Name	Wireless Storage Drive
Model No.	WSD-A1
FCC ID.	QT7ASUSWSDA1

Applicant	Power7 Technology(Dong Guan) Co., Ltd.
Address	No.28 Binjiang Blvd Shishuikou Village, Qiaotou To Dongguan China

Date of Receipt	Aug. 21, 2015
Issue Date	Nov. 26, 2015
Report No.	1580595R-RFUSP02V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issue Date: Nov. 26, 2015 Report No.: 1580595R-RFUSP02V00



Product Name	Wireless Storage Drive					
Applicant	Power7 Technology(Dong Guan) Co., Ltd.					
Address	No.28 Binjiang Blvd Shishuikou Village, Qiaotou To Dongguan China					
Manufacturer	POWER 7 TECHNOLOGY Co.,Ltd.					
Model No.	WSD-A1					
EUT Rated Voltage	DC 3.7V(By Battery), DC 5V(By USB)					
EUT Test Voltage	DC 5V(By USB)					
Trade Name	ASUS					
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014					
	ANSI C63.4: 2014, ANSI C63.10: 2013					
	KDB 558074 D01 DTS Meas Guidance v03r03					
Test Result	Complied					

Documented By

:

:

:

Gente Chang

(Senior Adm. Specialist / Genie Chang)

Tested By

Jack Hsu

(Engineer / Jack Hsu)

Approved By

(Director / Vincent Lin)



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless Storage Drive
Trade Name	ASUS
Model No.	WSD-A1
FCC ID.	QT7ASUSWSDA1
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz,802.11n-40MHz:2422-2452MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 300Mbps
Type of Modulation	802.11b:DSSS, DBPSK, DQPSK, CCK
	802.11g/n: OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	RIMON TECHNOLOGY	WAN3216F245C04	Chip Antenna	1.69dBi for 2.4GHz
	CO., LTD.			

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

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

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 03:	2422 MHz	Channel 04:	2427 MHz	Channel 05:	2432 MHz	Channel 06:	2437 MHz
Channel 07:	2442 MHz	Channel 08:	2447 MHz	Channel 09:	2452 MHz		

- 1. This device is a Wireless Storage Drive with a built-in WLAN transceiver.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps \$\circ\$802.11g is 6Mbps \$\circ\$802.11n(20M-BW) is 14.4Mbps and, 802.11n(40M-BW) is 30Mbps).
- 4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11b is chain A, 802.11g is chain A)
- 5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
- 6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	Latitude E5440	74BTK32	DoC	Non-Shielded, 1.8m
2	Notebook PC	DELL	M65	CG098	DoC	Non-Shielded, 1.8m
3	Fixture	ASUS	N/A	N/A	N/A	N/A

	Signal Cable Type	Signal cable Description		
А	SATA Cable	Non-Shielded, 5.0m		
В	Micro USB to USB Cable	Shielded, 2.3m		

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown on 1.4
- (2) Execute "QATest MFC Application (v1.0.6.0)" program on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Start the continuous transmission.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : <u>http://www.quietek.com/chinese/about/certificates.aspx?bval=5</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

Site Description: File on Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 Registration Number: 92195

Site Name:	Quietek Corporation
Site Address:	No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
	Lin-Kou Shiang, Taipei,
	Taiwan, R.O.C.
	TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
	E-Mail : <u>service@quietek.com</u>

FCC Accreditation Number: TW1014

2. Conducted Emission

2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark					
Х	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015						
Х	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2015	Peripherals					
Х	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2015	EUT					
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2015	EUT					
Х	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2015						
	No.1 Shielded Room									

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit							
Frequency	Limits						
MHz	QP	AVG					
0.15 - 0.50	66-56	56-46					
0.50-5.0	56	46					
5.0 - 30	60	50					

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product	:	Wireless Storage Drive
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency	Correct	Correct Reading		Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.154	9.790	49.100	58.890	-6.996	65.886
0.177	9.790	46.250	56.040	-9.189	65.229
0.252	9.790	36.310	46.100	-16.986	63.086
0.267	9.790	33.440	43.230	-19.427	62.657
0.326	9.790	26.930	36.720	-24.251	60.971
0.701	9.790	28.190	37.980	-18.020	56.000
Average					
0.154	9.790	33.130	42.920	-12.966	55.886
0.177	9.790	33.050	42.840	-12.389	55.229
0.252	9.790	23.950	33.740	-19.346	53.086
0.267	9.790	21.650	31.440	-21.217	52.657
0.326	9.790	12.540	22.330	-28.641	50.971
0.701	9.790	16.420	26.210	-19.790	46.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	:	Wireless Storage Drive
Test Item	:	Conducted Emission Test
Power Line	:	Line 2
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency		Correct	Reading	Measurement	Margin	Limit
		Factor	Level	Level		
=	MHz	dB	dBuV	dBuV	dB	dBuV
	Line 2					
	Quasi-Peak					
	0.162	9.770	49.320	59.090	-6.567	65.657
	0.205	9.770	42.790	52.560	-11.869	64.429
	0.248	9.770	37.180	46.950	-16.250	63.200
	0.283	9.770	32.170	41.940	-20.260	62.200
	0.341	9.770	24.580	34.350	-26.193	60.543
	0.673	9.770	27.400	37.170	-18.830	56.000
	Average					
	0.162	9.770	37.310	47.080	-8.577	55.657
	0.205	9.770	30.160	39.930	-14.499	54.429
	0.248	9.770	24.930	34.700	-18.500	53.200
	0.283	9.770	19.260	29.030	-23.170	52.200
	0.341	9.770	11.680	21.450	-29.093	50.543
	0.673	9.770	15.950	25.720	-20.280	46.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

3. Maximum Conducted Power

3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup



3.3. Limits

The maximum average power shall be less 1 Watt. (Section 15.247 (b)(3))

3.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v03r02 section 9.1.2 PKPM1 Peak power meter method.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Maximum Conducted Power

Product	:	Wireless Storage Drive
Test Item	:	Maximum Conducted Power
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

CHAIN A

Channel No.	Frequency (MHz)	Average Power For different Data Rate (Mbps)			Peak Power	Required	Recult	
Channel No		1	2	5.5	11	1	Limit	Result
			Measur					
01	2412	16.07				20.16	<30dBm	Pass
06	2437	16.54	16.34	16.11	15.97	19.92	<30dBm	Pass
11	2462	16.66				20.07	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No.	Frequency	For d	Average ifferent Da	e Power ata Rate (N	(lbps)	Peak Power	Required	Recult
	(MHz)	1	2	5.5	11	1	Limit	Kesult
			Measur	ement Lev	vel (dBm)			
01	2412	15.98				20.01	<30dBm	Pass
06	2437	16.41	16.22	16.04	15.95	19.83	<30dBm	Pass
11	2462	16.62				20.02	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss



Product	:	Wireless Storage Drive
Test Item	:	Maximum Conducted Power
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

CHAI	N A											
	Frequency		F	Required								
Channel No (MH	(MHz)	6	9	12	18	24	36	48	54	6	Limit	Result
Measurement Level (dBm)												
01	2412	13.96								22.94	<30dBm	Pass
06	2437	13.72	13.57	13.29	13.10	12.88	12.67	12.45	12.24	22.55	<30dBm	Pass
11	2462	13.87								22.63	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

					Peak							
	Frequency		F	For diffe	erent Da	ata Rate	e (Mbps	s)		Power	Required	
Channel No	(MHz)	6	9	12	18	24	36	48	54	6	Limit	Result
			Measurement Level (dBm)									
01	2412	13.88								22.67	<30dBm	Pass
06	2437	13.64	13.49	13.26	13.08	12.89	12.70	12.51	12.32	22.41	<30dBm	Pass
11	2462	13.8								22.55	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product	:	Wireless Storage Drive
Test Item	:	Maximum Conducted Power
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

CHAIN A

			Average Power								
	Frequency		For different Data Rate (Mbps)								
Channel No	(MHz)	14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	14.4	
		Measurement Level (dBm)									
01	2412	13.6				-				22.3	
06	2437	13.67	13.48	13.39	13.23	13.09	12.95	12.81	12.67	22.5	
11	2462	13.78								22.52	

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

			Average Power								
	Frequency		For different Data Rate (Mbps)								
Channel No	(MHz)	14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	14.4	
			Measurement Level (dBm)								
01	2412	13.57								22.14	
06	2437	13.60	13.46	13.22	13.05	12.86	12.67	12.48	12.29	22.14	
11	2462	13.68								22.13	

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency	Data Rata	Chain A Power	Chain B Power	Chain A+B Power	Limit	Result
	(MHz)	(Mbps)	(dBm)	(dBm)	(dBm)	(dBm)	
1	2412	14.4	22.30	22.14	25.23	<30dBm	Pass
6	2437	14.4	22.50	22.14	25.33	<30dBm	Pass
11	2462	14.4	22.52	22.13	25.34	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product	:	Wireless Storage Drive
Test Item	:	Maximum Conducted Power
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

CHAIN A

			Average Power								
	Frequency		For different Data Rate (Mbps)								
Channel No	(MHz)	30	60	90	120	180	240	270	300	30	
		Measurement Level (dBm)									
3	2422	13.95								22.22	
6	2437	13.87	13.74	13.59	13.45	13.31	13.17	13.03	12.89	22.14	
9	2452	13.65								22.38	

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

			Average Power								
	Fraguanay		For different Data Rate (Mbps)								
Channel No	(MHz)	30	60	90	120	180	240	270	300	30	
		Measurement Level (dBm)									
3	2422	13.54		-		-				22.01	
6	2437	13.73	13.58	13.36	13.19	13.00	12.82	12.63	12.45	22.7	
9	2452	13.73								22.13	

Note: Peak Power Output Value = Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency	Data Rata	Chain A Power	Chain B Power	Chain A+B Power	Limit	Result
	(MHz)	(Mbps)	(dBm)	(dBm)	(dBm)	(dBm)	
3	2422	30	22.22	22.01	25.13	<30dBm	Pass
6	2437	30	22.14	22.70	25.44	<30dBm	Pass
9	2452	30	22.38	22.13	25.27	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))



4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment		Manufacturer Model No./Serial No		Last Cal.
⊠Site # 3	Site # 3 X Magnetic Loop Antenna Teseq X Bilog Antenna Schaffr X EMI Test Receiver R&S		Teseq	HLA6121/ 37133	Sep, 2015
			Schaffner Chase	CBL6112B/ 2707	Jun, 2015
			R&S	ESCS 30/838251/ 001	Jun, 2015
	Х	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
◯ CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
XHorn AntennaSchwXHorn AntennaTRO		Schwarzbeck	BBHA9170/209	Jan, 2015	
		Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	Х	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.



4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz





4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits						
Frequency MHz	Field strength	Measurement distance				
	(microvolts/meter)	(meter)				
0.009-0.490	2400/F(kHz)	300				
0.490-1.705	24000/F(kHz)	30				
1.705-30	30	30				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

Remarks: E field strength $(dBuV/m) = 20 \log E$ field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product	:	Wireless Storage Drive
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	46.010	49.271	-24.729	74.000
7236.000	10.650	32.680	43.330	-30.670	74.000
9648.000	13.337	32.570	45.906	-28.094	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4824.000	6.421	47.970	54.391	-19.609	74.000
7236.000	11.495	31.530	43.025	-30.975	74.000
9648.000	13.807	32.170	45.976	-28.024	74.000
Average					
Detector:					
4824.000	6.421	45.960	52.381	-1.619	54.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product	: Wireless Storage Drive						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 1	Transmit (802.11	lb 1Mbps) (2437 MH	z)			
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	48.370	51.407	-22.593	74.000		
7311.000	11.795	32.410	44.204	-29.796	74.000		
9748.000	12.635	31.960	44.595	-29.405	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4874.000	5.812	47.810	53.621	-20.379	74.000		
7311.000	12.630	32.290	44.919	-29.081	74.000		
9748.000	13.126	32.410	45.536	-28.464	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item Test Site Test Mode	 Wireless Storage Drive Harmonic Radiated Emission Data No.3 OATS Mode 1: Transmit (802.11b 1Mbps) (2462 MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	46.350	49.207	-24.793	74.000
7386.000	12.127	32.830	44.958	-29.042	74.000
9808.000	12.475	32.610	45.085	-28.915	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4924.000	5.521	46.710	52.230	-21.770	74.000
7386.000	13.254	32.610	45.864	-28.136	74.000
9848.000	13.367	32.390	45.757	-28.243	74.000
Average					
Detector:					

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Wireless Storage Drive					
Test Item	: Harmonic Radiated Emission Data					
Test Site	Test Site : No.3 OATS					
Test Mode	: Mode 2	: Transmit (802.11	lg 6Mbps) (2412MHz	z)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
4824.000	3.261	38.910	42.171	-31.829	74.000	
7236.000	10.650	31.630	42.280	-31.720	74.000	
9648.000	13.337	32.070	45.406	-28.594	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
4824.000	6.421	40.420	46.841	-27.159	74.000	
7236.000	11.495	31.590	43.085	-30.915	74.000	
9648.000	13.807	31.830	45.636	-28.364	74.000	
Average						
Detector:						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product	: Wireless Storage Drive						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 2	: Transmit (802.11	g 6Mbps) (2437 MH	Z)			
5	a i				T • •/		
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	42.630	45.667	-28.333	74.000		
7311.000	11.795	32.510	44.304	-29.696	74.000		
9748.000	12.635	31.960	44.595	-29.405	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4874.000	5.812	43.580	49.391	-24.609	74.000		
7311.000	12.630	31.970	44.599	-29.401	74.000		
9748.000	13.126	32.460	45.586	-28.414	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product Test Item Test Site Test Mode	 Wireless Storage Drive Harmonic Radiated Emission Data No.3 OATS Mode 2: Transmit (802.11g 6Mbps) (2462 MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	41.030	43.887	-30.113	74.000
7386.000	12.127	32.710	44.838	-29.162	74.000
9848.000	12.852	32.290	45.143	-28.857	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4924.000	5.521	41.840	47.360	-26.640	74.000
7386.000	13.254	32.740	45.994	-28.006	74.000
9848.000	13.367	32.510	45.877	-28.123	74.000
Average					
Detector:					

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item	: Wireless Storage Drive Harmonic Radiated Emission Data					
Test Site	$N_0 = 3 \cap ATS$					
Test Mode	: Mode 3:	Transmit - 802.1	1n-20BW_14.4Mbps((2.4G Band) (241	2MHz)	
			-			
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
4824.000	3.261	40.970	44.231	-29.769	74.000	
7236.000	10.650	31.620	42.270	-31.730	74.000	
9648.000	13.337	32.140	45.476	-28.524	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
4824.000	6.421	41.790	48.211	-25.789	74.000	
7236.000	11.495	31.930	43.425	-30.575	74.000	
9648.000	13.807	32.460	46.266	-27.734	74.000	
Average						
Detector:						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product	: Wireless Storage Drive						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 3:	Transmit - 802.1	1n-20BW_14.4Mbps	(2.4G Band) (243	57 MHz)		
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	41.610	44.647	-29.353	74.000		
7311.000	11.795	32.510	44.304	-29.696	74.000		
9748.000	12.635	32.270	44.905	-29.095	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4874.000	36.080	42.640	48.451	-25.549	74.000		
7311.000	40.533	32.510	45.139	-28.861	74.000		
9748.000	41.651	32.170	45.296	-28.704	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product Test Item Test Site	 Wireless Storage Drive Harmonic Radiated Emission Data No.3 OATS 						
Test Mode	: Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4924.000	2.858	41.380	44.237	-29.763	74.000		
7386.000	12.127	32.620	44.748	-29.252	74.000		
9848.000	12.852	32.710	45.563	-28.437	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4924.000	5.521	41.310	46.830	-27.170	74.000		
7386.000	13.254	32.510	45.764	-28.236	74.000		
9848.000	13.367	32.480	45.847	-28.153	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item Test Site Test Mode	 Wireless Storage Drive Harmonic Radiated Emission Data No.3 OATS Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz) 					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
4844.000	3.171	39.170	42.341	-31.659	74.000	
7266.000	11.162	31.470	42.632	-31.368	74.000	
9688.000	12.964	31.720	44.685	-29.315	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
4844.000	6.178	39.170	45.348	-28.652	74.000	
7266.000	11.982	31.720	43.702	-30.298	74.000	
9688.000	13.507	32.670	46.178	-27.822	74.000	
Average						
Detector:						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product	: Wireless Storage Drive					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
4874.000	3.038	39.470	42.507	-31.493	74.000	
7311.000	11.795	32.370	44.164	-29.836	74.000	
9748.000	12.635	32.610	45.245	-28.755	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
4874.000	5.812	41.170	46.981	-27.019	74.000	
7311.000	12.630	32.150	44.779	-29.221	74.000	
9748.000	13.126	31.980	45.106	-28.894	74.000	
Average						
Detector:						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Wireless Storage Drive						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4904.000	2.914	39.170	42.085	-31.915	74.000		
7356.000	11.995	32.180	44.174	-29.826	74.000		
9808.000	12.475	32.430	44.905	-29.095	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4904.000	5.530	40.830	46.361	-27.639	74.000		
7356.000	13.005	32.510	45.514	-28.486	74.000		
9808.000	12.901	32.470	45.371	-28.629	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

46.000

Product	: Wireles	: Wireless Storage Drive						
Test Item	: General Radiated Emission Data							
Test Site	Test Site : No.3 OATS							
Test Mode	: Mode 1	: Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
98.884	-7.565	48.008	40.444	-3.056	43.500			
193.072	-10.565	51.031	40.466	-3.034	43.500			
292.884	-4.019	42.593	38.574	-7.426	46.000			
419.406	-3.234	46.162	42.928	-3.072	46.000			
499.536	0.051	35.151	35.202	-10.798	46.000			
849.580	5.837	25.424	31.261	-14.739	46.000			
Vertical								
98.884	-0.706	41.089	40.383	-3.117	43.500			
193.072	-9.846	43.925	34.079	-9.421	43.500			
374.420	-2.179	37.439	35.260	-10.740	46.000			
531.870	-0.546	35.656	35.110	-10.890	46.000			
817.246	3.263	34.892	38.155	-7.845	46.000			

Note:

943.768

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

31.333

-14.667

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

24.740

4. Measurement Level = Reading Level + Correct Factor.

6.593

- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	Wireless Storage Drive
Test Item	:	General Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
98.884	-7.565	47.985	40.421	-3.079	43.500
266.174	-4.970	44.867	39.896	-6.104	46.000
374.420	-1.202	39.633	38.431	-7.569	46.000
499.536	0.051	34.589	34.640	-11.360	46.000
633.087	1.842	30.251	32.094	-13.906	46.000
808.812	5.020	34.646	39.666	-6.334	46.000
Vertical					
108.725	-0.372	39.356	38.984	-4.516	43.500
374.420	-2.179	37.537	35.358	-10.642	46.000
524.841	-0.383	38.906	38.523	-7.477	46.000
620.435	-2.779	41.135	38.356	-7.644	46.000
797.565	2.819	28.558	31.378	-14.622	46.000
931.116	6.341	24.125	30.466	-15.534	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	:	Wireless Storage Drive
Test Item	:	General Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
98.884	-7.565	47.944	40.380	-3.120	43.500
321.000	-4.369	44.241	39.872	-6.128	46.000
429.246	-2.319	44.192	41.873	-4.127	46.000
672.449	2.374	30.197	32.571	-13.429	46.000
741.333	3.351	31.855	35.206	-10.794	46.000
853.797	6.548	34.536	41.084	-4.916	46.000
Vertical					
105.913	-0.261	40.268	40.007	-3.493	43.500
208.536	-7.794	44.688	36.894	-6.606	43.500
374.420	-2.179	37.763	35.584	-10.416	46.000
499.536	-0.848	33.454	32.606	-13.394	46.000
791.942	2.897	31.965	34.862	-11.138	46.000
929.710	6.434	29.264	35.698	-10.302	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.
| Product | : | Wireless Storage Drive |
|-----------|---|--|
| Test Item | : | General Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz) |

Frequency	Correct	Reading Measurement		Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
46.870	-8.585	45.512	36.927	-3.073	40.000
193.072	-10.565	50.683	40.118	-3.382	43.500
344.899	-2.415	36.645	34.230	-11.770	46.000
499.536	0.051	33.074	33.125	-12.875	46.000
745.551	3.310	26.484	29.795	-16.205	46.000
945.174	6.537	25.158	31.695	-14.305	46.000
Vertical					
107.319	-0.308	35.533	35.225	-8.275	43.500
209.942	-7.854	45.659	37.805	-5.695	43.500
374.420	-2.179	34.994	32.815	-13.185	46.000
507.971	-0.350	33.513	33.162	-12.838	46.000
725.870	-0.159	29.386	29.227	-16.773	46.000
921.275	5.525	23.356	28.881	-17.119	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

5. **RF** Antenna conducted test

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1.27 dB

5.6. Test Result of RF antenna conducted test

Product	:	Wireless Storage Drive
Test Item	:	RF antenna conducted test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Channel 01 (2412MHz) 30MHz-25GHz











:	Wireless Storage Drive
:	RF Antenna Conducted Spurious
:	No.3 OATS
:	Mode 2: Transmit (802.11g 6Mbps)
	: : :

Channel 01 (2412MHz) 30MHz -25GHz





Channel 11 (2462MHz) 30MHz -25GHz





Product	:	Wireless Storage Drive
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

Channel 01 (2412MHz) 30MHz -25GHz-Chain A



Channel 06 (2437MHz) 30MHz -25GHz-Chain A



Channel 11 (2462MHz) 30MHz -25GHz-Chain A





Channel 01 (2412MHz) 30MHz -25GHz-Chain B













:	Wireless Storage Drive
:	RF Antenna Conducted Spurious
:	No.3 OATS
:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)
	: : :

Channel 01 (2422MHz) 30MHz -25GHz-Chain A







Channel 07 (2452MHz) 30MHz -25GHz-Chain A



Channel 01 (2422MHz) 30MHz -25GHz-Chain B











6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer Model No./Serial N		Last Cal.	
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015	
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015	
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015	

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	Х	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	Х	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	Χ	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.



6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz



6.6. Test Result of Band Edge

Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Horizontal):

Channel No	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Descult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2365.507	31.413	28.502	59.915	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	27.251	58.760	74.00	54.00	Pass
01 (Peak)	2397.826	31.548	31.721	63.269			
01 (Peak)	2400.000	31.561	30.840	62.401			
01 (Peak)	2410.580	31.628	70.051	101.679			
01 (Average)	2340.000	31.313	14.972	46.286	74.00	54.00	Pass
01 (Average)	2390.000	31.509	13.981	45.490	74.00	54.00	Pass
01 (Average)	2397.971	31.549	20.880	52.429			
01 (Average)	2400.000	31.561	19.600	51.161			
01 (Average)	2412.754	31.644	66.847	98.491			

Figure Channel 01:



Figure Channel 01:

Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2347.681	31.112	28.550	59.661	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	27.141	58.056	74.00	54.00	Pass
01 (Peak)	2397.246	30.905	30.003	60.908			
01 (Peak)	2400.000	30.912	29.952	60.864			
01 (Peak)	2413.623	30.960	67.130	98.090			
01 (Average)	2341.739	31.140	14.840	45.979	74.00	54.00	Pass
01 (Average)	2390.000	30.915	13.723	44.638	74.00	54.00	Pass
01 (Average)	2397.826	30.907	17.801	48.708			
01 (Average)	2400.000	30.912	17.155	48.067			
01 (Average)	2414.348	30.966	64.075	95.040			

Figure Channel 01:



Figure Channel 01:

Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. 2.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- "*", means this data is the worst emission level. 4.
- 5. Measurement Level = Reading Level + Correct Factor.
- The average measurement was not performed when the peak measured data under the limit of average 6. detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Decult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2460.457	32.008	72.375	104.383			
11 (Peak)	2483.500	32.182	28.352	60.534	74.00	54.00	Pass
11 (Peak)	2508.862	32.254	28.954	61.208	74.00	54.00	Pass
11 (Average)	2461.181	32.014	69.188	101.201			
11 (Average)	2483.500	32.182	14.669	46.851	74.00	54.00	Pass
11 (Average)	2509.442	32.253	15.829	48.082	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)



Figure Channel 11:

Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2463.500	31.300	75.036	106.336			
11 (Peak)	2483.500	31.435	27.449	58.884	74.00	54.00	Pass
11 (Peak)	2506.109	31.540	29.302	60.841	74.00	54.00	Pass
11 (Average)	2464.804	31.309	71.975	103.284			
11 (Average)	2483.500	31.435	14.883	46.318	74.00	54.00	Pass
11 (Average)	2509.587	31.546	15.859	47.405	74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)



Figure Channel 11:

Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Kesult
01 (Peak)	2390.000	31.509	28.796	60.305	74.00	54.00	Pass
01 (Peak)	2399.275	31.557	37.817	69.374			
01 (Peak)	2400.000	31.561	36.825	68.386			
01 (Peak)	2419.130	31.692	69.271	100.964			
01(Average)	2390.000	31.509	14.650	46.159	74.00	54.00	Pass
01(Average)	2400.000	31.561	21.802	53.363			
01(Average)	2419.420	31.695	59.791	91.486			





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

Channal No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2379.710	30.964	28.312	59.275	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	28.010	58.925	74.00	54.00	Pass
01 (Peak)	2399.565	30.911	35.584	66.495			
01 (Peak)	2400.000	30.912	34.442	65.354			
01 (Peak)	2419.130	30.997	67.223	98.221			
01 (Average)	2341.739	31.140	14.809	45.948	74.00	54.00	Pass
01 (Average)	2390.000	30.915	14.100	45.015	74.00	54.00	Pass
01 (Average)	2400.000	30.912	19.126	50.038			
01 (Average)	2419.420	31.000	57.779	88.779			

Figure Channel 01:



Figure Channel 01:

Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- The average measurement was not performed when the peak measured data under the limit of average 6. detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2469.442	32.076	71.469	103.545			
11 (Peak)	2483.500	32.182	29.923	62.105	74.00	54.00	Pass
11 (Peak)	2484.080	32.186	30.779	62.965	74.00	54.00	Pass
11 (Average)	2469.297	32.074	62.489	94.564			
11 (Average)	2483.500	32.182	16.376	48.558	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Wireless Storage Drive
Band Edge
No.3 OATS
Mode 2: Transmit (802.11g 6Mbps)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2469.297	31.339	71.339	102.678			
11 (Peak)	2483.500	31.435	30.546	61.981	74.00	54.00	Pass
11 (Peak)	2484.080	31.439	31.048	62.487	74.00	54.00	Pass
11 (Average)	2469.297	31.339	62.421	93.760			
11 (Average)	2483.500	31.435	16.591	48.026	74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)



Figure Channel 11:

Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Decult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2388.986	31.505	30.459	61.964	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	29.115	60.624	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	38.134	69.695			
01 (Peak)	2405.362	31.595	70.920	102.515			
01 (Average)	2390.000	31.509	15.723	47.232	74.00	54.00	Pass
01 (Average)	2400.000	31.561	23.169	54.730			
01 (Average)	2419.565	31.697	59.946	91.642			





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2388.986	30.920	33.251	64.171	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	32.197	63.112	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	39.887	70.799			
01 (Peak)	2418.986	30.996	73.717	104.714			
01 (Average)	2390.000	30.915	16.685	47.600	74.00	54.00	Pass
01 (Average)	2400.000	30.912	25.503	56.415			
01 (Average)	2419.565	31.001	62.561	93.562			



Vertical (Peak)





Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2457.703	31.987	71.700	103.687			
11 (Peak)	2483.500	32.182	30.875	63.057	74.00	54.00	Pass
11 (Peak)	2485.674	32.198	33.207	65.406	74.00	54.00	Pass
11 (Average)	2469.732	32.078	61.751	93.829			
11 (Average)	2483.500	32.182	17.222	49.404	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Decult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2454.370	31.238	75.259	106.497			
11 (Peak)	2483.500	31.435	33.189	64.624	74.00	54.00	Pass
11 (Peak)	2483.645	31.436	32.256	63.692	74.00	54.00	Pass
11 (Average)	2454.514	31.238	63.986	95.225			
11 (Average)	2483.500	31.435	18.741	50.176	74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)





Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel Ma	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
0 (Peak)	2389.855	31.509	32.108	63.617	74.00	54.00	Pass
0 (Peak)	2390.000	31.509	31.346	62.855	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	39.772	71.333			
01 (Peak)	2405.362	31.595	68.550	100.145			
01 (Average)	2390.000	31.509	17.835	49.344	74.00	54.00	Pass
01 (Average)	2400.000	31.561	26.250	57.811			
01 (Average)	2405.217	31.594	57.538	89.132			



Horizontal (Peak)





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

Channal No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2388.551	30.922	32.439	63.361	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	32.008	62.923	74.00	54.00	Pass
01 (Peak)	2399.275	30.911	38.857	69.767			
01 (Peak)	2400.000	30.912	38.520	69.432			
01 (Peak)	2438.406	31.129	71.208	102.337			
01 (Average)	2390.000	30.915	18.650	49.565	74.00	54.00	Pass
01 (Average)	2400.000	30.912	27.252	58.164			
01 (Average)	2438.551	31.130	60.403	91.533			



Vertical (Peak)



Figure Channel 01:

Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channal No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
07 (Peak)	2468.138	32.066	68.292	100.358			
07 (Peak)	2483.500	32.182	31.537	63.719	74.00	54.00	Pass
07 (Peak)	2484.949	32.193	33.267	65.460	74.00	54.00	Pass
07 (Average)	2469.007	32.072	58.578	90.650			
07 (Average)	2483.500	32.182	18.513	50.695	74.00	54.00	Pass
07 (Average)	2483.935	32.185	18.568	50.753	74.00	54.00	Pass

Figure Channel 07:

Horizontal (Peak)



Figure Channel 07:

Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Wireless Storage Drive
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

Channel No Frequency		Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
07 (Peak)	2456.109	31.250	72.005	103.255			
07 (Peak)	2483.500	31.435	33.287	64.722	74.00	54.00	Pass
07 (Peak)	2486.109	31.452	33.889	65.342	74.00	54.00	Pass
07 (Average)	2435.529	31.109	61.167	92.276			
07 (Average)	2483.500	31.435	20.661	52.096	74.00	54.00	Pass

Figure Channel 07:

Vertical (Peak)





Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

_

7. Occupied Bandwidth

7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1-5% of the emission bandwidth, VBW≥3*RBW

7.5. Uncertainty

 \pm 150Hz

7.6. Test Result of Occupied Bandwidth

Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10200	>500	Pass

Figure Channel 1:

Agilent Spectr	rum Analyzer - Sw	rept SA								
Center F	RF 50 Ω req 2.41200	AC 00000 GHz	Z Di Faat (SENSI	Run	Avg Typ	ALIGNAUTO e: Log-Pwr	06:10:58 PI TRA TY	M Oct 20, 2015 CE 1 2 3 4 5 6 PE M WWWWW	Frequency
PNO: Fast IFGain:Low #Atten: 30 dB Ref Offset 6.33 dB Ref Offset 6.33 dB -2 14 dBm						90 GHz	Auto Tune			
10 ab/alv Log 16.3 6.33	Kei 20.33			2 martine p	and the	3			0.47 dBm	Center Fred 2.412000000 GHz
-13.7 -23.7 -33.7						N.	21 -			Start Fred 2.387000000 GH:
-43.7 -53.7 -63.7	monterior					N N		- Andrew - and -	my man with and	Stop Free 2.437000000 GH
Center 2. #Res BW	41200 GHz 100 kHz		#VBW	/ 300 kHz			Sweep 4	Span 5 .800 ms (0.00 MHz 1001 pts)	CF Stej 5.000000 MH
Kiks Model 1 1 N 2 2 N 3 3 N 4 5 - 6 7 - 8 9 - 10 11 - -		× 2.414 00 2.406 90 2.417 10	GHz GHz GHz	Y 6.47 dBr -2.14 dBr -1.72 dBr	n n n n	CTION FU	NCTION WIDTH	FUNCTI		Auto Mar FreqOffse 0 H
MSG							STATUS	3	2	



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10200	>500	Pass

Figure Channel 6:

Agilent Spec	rum Analyzer - S	Swept SA						ř.
Center I	req 2.437	000000 GHz	Trig: Free Ru	Avg	Type: Log-Pwr	106:16:08F TRA T\	CE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset Ref 26.3	IFGain:Low 6.31 dB 1 dBm	#Atten: 30 dB		Mkr	2 2.431 -2.	90 GHz 50 dBm	Auto Tune
16.3 6.31			2 minut	una 3			0.02 dBm	Center Free 2.437000000 GH
-13.7 -23.7 -33.7			~	N	<u></u>			Start Fre 2.412000000 GH
-43.7 -53.7 -63.7	na muine				Manara	n 	en geralen dan der Antalande	Stop Fre 2.462000000 GH
Center 2 #Res BW	.43700 GHz / 100 kHz	: #VE	3W 300 kHz		Sweep 4	Span : .800 ms	50.00 MHz (1001 pts)	CF Ste 5.000000 MH
MKR MODE	TRE SCL	2.435 00 GHz	6.02 dBm	FUNCTION	FUNCTION WIDTH	FUNCT	ION VALUE	<u>Auto</u> Ma
3 N 4 5 6	i f	2.442 10 GHz	-2.17 dBm					FreqOffse 0⊦
7 8 9 10								
11 ≪					07471		2	



:	Wireless Storage Drive
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 1: Transmit (802.11b 1Mbps) (2462MHz)
	: : :

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	10200	>500	Pass

Figure Channel 11:

Bit IFF SD0, AC SENERNT ALIGNATIO D08/24-8FM Oct20,2015 Frequency Center Freq 2.462000000 GHz IFGainLow Trig: Free Run #Atten: 30 dB Mkr2 2.456 90 GHz -2.06 dBm Trig: Free Run #Atten: 30 dB Center Freq 2.46200000 GHz Auto Tun 10 dB/div Log Ref Offset 6.31 dB 0.48 dbm -2.06 dBm Center Freq 2.46200000 GH Auto Tun 13/ -13/ -13/ -13/ -13/ -13/ -13/ -13/ -	Agilent S	pectru	m Ana	ilyzer - Sw	ept SA										
Image: Non-Field of Bodin Low #Atten: 30 dB Mkr2 2.456 90 GHz Auto Tun 10 dB/div Ref Offset 6.31 dB -2.06 dBm -2.06 dBm Center Free 2.46200000 GH 137	Cente	r Fr	RF eq 2	50 Ω 2.4620	AC 00000 GH	łz	SEN	Bun	Avg	ALIGNAU Type: Log-P	ло wr	06:24:45P TRA TY	M Oct 20, 2015 CE 1 2 3 4 5 6 PE M WWWWW	Frequency	
10 dB/div Ref 26.31 dBm -2.05 dBm 163 1 1 1 163 2 1 1 1369 2 1 2 137 2 3 0.48 dBm 137 2 1 1 137 2 1 1 2 137 2 1 1 2 137 1 1 1 1 2 137 1 1 1 1 1 137 1 1 1 1 1 1 137 1 1 1 1 1 1 1 137 1			Ref	Offset 6.	31 dB	Gain:Low	#Atten: 30	dB		IV	1kr2	2.456	90 GHz	Auto Tune	
16.3 1 2 1 2 1 2 3	10 dB/c	liv	Ref	26.31	dBm		1					-2.	U6 aBm	1	
6.31 3 0.48 dem 2.46200000 GH 3.89 3 0.48 dem 2.46200000 GH 3.7 3 4 4 4 4 43.7 4 4 4 4 4 5 5 5 5 5 5 5 6 <td>16.3</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>Center Fred</td>	16.3	-		-			1					-		Center Fred	
369 37 <t< td=""><td>6.31 —</td><td></td><td></td><td></td><td></td><td></td><td>2 money</td><td>personal.</td><td>3</td><td></td><td></td><td></td><td>0.48 dBm</td><td>2.462000000 GHz</td></t<>	6.31 —						2 money	personal.	3				0.48 dBm	2.462000000 GHz	
137	-3.69					A		6	A						
237 337 2.437000000 GH 337 437 437 437 437 537 537 637 537 637 537 637 537 637 537 637 537 737 537 637 537 637 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 737 537 738 537 741 537 741 537 741 537 741 537 741 537 741 537 741 537 741 537 741 537 741 537 741 537 <td>-13.7 —</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>1</td> <td>Y.</td> <td>-</td> <td>VZ</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>Start Free</td>	-13.7 —	-		-		1	Y.	-	VZ	-	-			Start Free	
337 437 437 437 537 537 637 537 Center 2.46200 GHz FRes BW 100 kHz FUNCTION FUNCTION <td col<="" td=""><td>-23.7 —</td><td>_</td><td></td><td>_</td><td></td><td></td><td></td><td>_</td><td>)</td><td>T</td><td>-</td><td>_</td><td></td><td>2.437000000 GHz</td></td>	<td>-23.7 —</td> <td>_</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td>)</td> <td>T</td> <td>-</td> <td>_</td> <td></td> <td>2.437000000 GHz</td>	-23.7 —	_		_				_)	T	-	_		2.437000000 GHz
437 437 437 437 437 537 <td>-33.7 —</td> <td>_</td> <td></td> <td></td> <td>La mont</td> <td>N.</td> <td></td> <td>-</td> <td></td> <td>t m le m</td> <td></td> <td></td> <td></td> <td></td>	-33.7 —	_			La mont	N.		-		t m le m					
53.7 63.7 Stop Freq 63.7 63.7 Stop Freq 63.7 63.7 Stop Freq 63.7 63.7 Stop Freq 63.7 63.7 Stop Freq 2.487000000 GHz Function #Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (1001 pts) Stop Freq 1 N 1 2 N 1 1 2 N 1 1 2 1.88 dBm 3 N 1 1 2 1.88 dBm 3 N 1 1 2 1.88 dBm 3 N 1 1 3 N 1 1 2 1.88 dBm 3 N 10 1 11 1	-43.7			and for	LAN.A.				-	Alland	grant a	how		Oton Ever	
63.7 Span 50.00 MHz Center 2.46200 GHz #VBW 300 kHz Sweep 4.800 ms (1001 pts) #Res BW 100 kHz #VBW 300 kHz Eunction Function width Mile M009 TRE Set X Function 1 1 f 2.460 00 GHz 5.00000 MHz 2 N 1 f 2.460 00 GHz 6.48 dBm 3 N 1 f 2.460 10 GHz	-53.7	-ruit	- Starting	Sec. 1				_			-	The second	alleal reading and	2 48700000 CH	
Center 2.46200 GHz Span 50.00 MHz CF step #Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (1001 pts) Auto Mail 1 N 1 f 2.460 00 GHz 6.48 dBm Function Function with Function water Auto Mail 2 N 1 f 2.466 90 GHz -2.06 dBm Function water Function water Auto Mail 3 N 1 f 2.466 70 GHz -1.88 dBm Freq Offsee 0 H 6	-63.7	-						-				_		2.467000000 0112	
MRR MODE TRC V FUNCTION FUNCTION FUNCTION FUNCTION FUNCTION Main Auto Main 1 N 1 f 2.460.00 GHz 6.48 dBm FUNCTION FUNCTION FUNCTION FUNCTION FUNCTION FUNCTION Main Auto Main 2 N 1 f 2.466.90 GHz -2.06 dBm	Cente	r 2.4 BW	6200 100 I	0 GHz		#VB	N 300 kHz			Sweet	n 4 8	Span 5	0.00 MHz	CF Step	
Image Image <th< td=""><td>TTER TOO</td><td></td><td></td><td></td><td>V</td><td></td><td>V OUT ATE</td><td></td><td>INCOLON</td><td></td><td></td><td></td><td></td><td>Auto Mar</td></th<>	TTER TOO				V		V OUT ATE		INCOLON					Auto Mar	
2 N 1 f 2.465 90 GHz -2.06 dBm Freq Offse 3 N 1 f 2.467 10 GHz -1.88 dBm 0 0 H	1 N	1	f		2.460 0	0 GHz	6.48 dE	3m	UNCTION	HUNCTION W		PUNCT			
4 100 0000 100 0000 00 0000 6 100 0000 100 0000 00000 7 100 0000 100 0000 100 0000 10 100 0000 100 0000 100 0000	2 N 3 N	1	f	_	2.456 9	0 GHz	-2.06 dE	3m 3m						Freg Offset	
6	4			-					-					0 Hz	
7 8 9 9 9 9 10 10 10 11 10 10	6													4	
9 0 10 0 11 0 5 5	8			1											
	9	-					_								
	11									1			v		
	<												2	1.	



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16700	>500	Pass

Figure Channel 1:

								pt SA	lyzer - Swe	um Ana	t Spectr	Agiler
Frequency	4 Oct 20, 2015 CE 1 2 3 4 5 6 PE MWWWWWW	06:38:50 PM TRAC	LIGNAUTO	Avg Type	e Run	SEI	z	AC 0000 GH	50 Ω .41200	RF req 2	ter Fi	Cen
Auto Tune	ET P NNNNN	DE		- 10-1	30 dB	#Atten: 3	lO: Fast 🕒 ain:Low	IFG			1	
	65 GHZ 74 dBm	2 2.403 -8.1	WK		2	£		3 dB Bm	Offset 6.3 26.33 d	Ref Ref	3/div	10 di
Center Free											100	16.3
2.412000000 GHz				3	-	Antonyouning	<u>∧</u> 1					6.33
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	6.11 GBm			Y			1				1	-3.67
2.387000000 GHz				1	-		F					-23.7
		No have a	A Manus Maria M					musersanai	mallorething			-33.7
Stop Free	Anthenstra Vide grad	- AND MA				1			4.000	he Charles	an million	-43.7
2.437000000 GHz			14									-63.7
CF Step 5.000000 MH	0.00 MHz 1001 pts)	Span 5 800 ms (Sweep 4.		z	300 kHz	#VBW) GHz (Hz	41200 100 H	ter 2.4 s BW	Cen #Re
<u>Auto</u> Mar		FUNCTIO	CTION WIDTH	INCTION		¥		X		IC SCL	MODE	MKR
FreqOffse		-			IBm IBm	-0.11 dl	GHz GHz	2.404 80		f	N 1	1
0 H					ып	-0.33 ui		2.420 0		-		4
												6
											-	8
	~											10 11
	2										4.	<



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16700	>500	Pass

Figure Channel 6:

gilent Spect	um Analyzer -	Swept SA		CENICE		1150111150	00.40.171	M 0-400 2015	F
Center F	req 2.437	000000 GH	iz	Trig: Free Ru	Avg T n	ype: Log-Pwr	UD:45:171 TR/ T	ACE 1 2 3 4 5 6	Frequency
	a the t	ife	Gain:Low	#Atten: 30 dB		Mki	2 2 4 28		Auto Tun
10 dB/div	Ref Offset Ref 26.3	6.31 dB 1 dBm	_				-8	.43 dBm	
16.3									Center Fre
6.31 3.69			A22	a simon and and a second	man man man	3		8 h6 48m	2.437000000 GH
13.7			1	-	Y			-0.20 0.011	Start Fre
23.7			1-			1	-	·	2.412000000 GH
43.7		www.wayhard				grandhalt	White Manuste		
53.7								in manufacture and	Stop Fre
63.7					-			1	2.40200000 GF
enter 2. Res BW	43700 GH: 100 kHz	z	#VBV	V 300 kHz		Sweep 4	Span : 1.800 ms	50.00 MHz (1001 pts)	CF Ste 5.000000 MH
KR MODE T	RC SCL	×	E CLIP	Y 0.05 dBm	FUNCTION	FUNCTION WIDTH	FUNCT	ION VALUE	<u>Auto</u> Ma
2 N 3 N	f	2.430 1 2.428 6 2.445 3	5 GHz 5 GHz 5 GHz	-8.43 dBm -9.64 dBm					Freq Offs
5		1.0	1.1						01
6 7 8							-		
9									
11								2	
SG						STATU	s		



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16700	>500	Pass

Figure Channel 11:

Agrient Spectrum Analyzer - Swept SA							
RL RF 50Ω AC		SENSE:IN		ALIGNAUTO	06:50:43 PM TRACE	Oct 20, 2015	Frequency
Center 11eq 2.40200000	PNO: Fast C IFGain:Low	Trig: Free Rur #Atten: 30 dB		V	TYPE DE	PNNNN	- Control
Ref Offset 6.31 dB 10 dB/div Ref 26.31 dBm		1	. 7	Mkr	2 2.453 (-8.6	6 dBm	Auto Tune
6,31	.2	1					Center Fred 2.462000000 GH:
-13.7						-6.39 dBm	Start Fred 2.437000000 GHz
-43.7 -53.7 -63.7				many	Angler market	n-humana hu	Stop Fred 2.487000000 GH7
Center 2.46200 GHz #Res BW 100 kHz	#VBW	300 kHz		Sweep 4	Span 50 .800 ms (1	.00 MHz 001 pts)	CF Step 5.000000 MH
MKR MODE TRC SCL X	459 90 GHz	-0.39 dBm	FUNCTION FU	NCTION WIDTH	FUNCTION	VALUE	<u>Auto</u> Mar
2 N 1 f 2. 3 N 1 f 2. 4	453 65 GHz 470 35 GHz	-8.66 dBm -9.03 dBm					Freq Offset 0 Hz
8 9 10							
<u>11</u>						2	



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17800	>500	Pass

Agliant Spactrum Analyzar - Swa	ipt SA						
Center Freq 2.41200	0000 GHz	10044-00	Avg Type	Log-Par	IBALE T 27145.5	Frequency	
100 m 100 m 100 m 20	PNO: Fast G	#Atten: 30 dB			UEI P N TO TEN TA		
Ref Offset 6.3 10 dB/dly Ref 26.33 d	13 dB IBm			Mkr2	2.403 10 GHz -6.94 dBm	Auto Tune	
163	1.00					Center Fren	
6 33	A1					2,412000000 GHz	
302	• ² √				.5.00 tOP		
-137	1		1			Start Freq	
40		1		K		2,387000000 GHz	
-134 martin - Longer	No.			and the second designed in	Sources		
53/7 IZI (_		Stop Freq 2.437000000 GHz	
Center 2.41200 GHz #Res BW 100 kHz	2enter 2,41200 GHz Span 50.00 MHz Span 50.00 MHz Bree RW 100 kHz Sween 4,900 ms (1001 nte)						
NUT NITOT TOT SS	*		DWETINK TOW	IT AM USA C	TIMPERANDE H	Auto Man	
1 N F	2.405 35 GHz	-0.66 dBm					
2 N F 3 N F	2.403 10 GHz	-6.94 dBm -6.89 dBm		-		Freq Offset	
4				-		0 Hz	
6							
7							
9							
10							
116 7 7 7	1.		1	1	20		
				10 V C 1		h	

Figure Channel 1: (Chain A)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17750	>500	Pass

Figure Channel 1: (Chain B)

8		STREE IN	h. at.	CONTRACTOR INC.	U/10012 PM CEC20, 2015	Section 1
enter Freq 2.412000000 GHz FNO: Fast F FGainLow		Trig: Free Run	Avg Type: Log-Pwr Run dB		123455 TVPC M	Frequency
Ref Offset 5.34 dB dB/div Ref 25.34 dBm - 6.38 dBm						
9 10 24	2		Q1	3		Center Fre 2.412000000 GH
17	V					Start Fre 2,387000000 GH
17 - Warm of Law of Lawrence				numasi	the second s	Stop Fre 2.437000000 GH
enter 2.41200 GHz Les BW 100 kHz	#VBV	V 300 kHz	1	Sweep 4	Span 50.00 MHz .800 ms (1001 pts)	CF Ste 5.000000 MH
	90 GHz	0.07 dBm	IUNCIUN	UNCTION WITH	TUNETUNWEUE	Auto Me
N f 2.4209	90 GHz	-7.05 dBm	-			Freq Offse 0 H
8 9 9						
1 1 1 1			K			


Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17800	>500	Pass

Center Freq 2.4370	00000 GHz	Trig: Free Run	Avg Type	: Log-Pwr	17-21341 PM OHE201, 2015 TRACE 1: 2:51:4.5.6 UNI ATUMAT	Frequency
Ref Offset 6	Ref Offset 531 dB Process 24 d					
10 dB/div Ref 26.31 Log 18 x 9.01	ABM				-7.48 UDIII	Center Free 2.437000000 GHz
(9.7 29.7					12.1	Start Fred 2.412000000 GHz
-437)er) 437					and the second	Stop Fred 2.462000000 GH:
Center 2.43700 GHz #Res BW 100 kHz	#VBI	N 300 KHz	1	Sweep 4.8	Span 50.00 MHz 00 ms (1001 pts)	CF Step 5.000000 MH:
1028 (1086) 1780 1980 1 N T 2 N T 3 N T 4 5 6 7	2.429 10 GHz 2.428 10 GHz 2.446 90 GHz	-1.31 dBm -7.49 dBm -7.49 dBm	RUMETION FU	SETTEM WILLTH		Auto Mar Preq Offsel 0 Ha
8 9 10 11						

Figure Channel 6: (Chain A)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17750	>500	Pass

Figure Channel 6: (Chain B)

RI 80- 000 4L	SEVER 2011	912Fr4010	U/2012010/MICRO20202015	- Anno 1997	
enter Freq 2.437000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	110/1 1 2 3 + 5 5 TYTE MUMAAMA	Frequency	
iFGain:Low	#Atten: 30 dB	-	187) annua	Auto Tune	
Ref Offset 6.32 dB 0 dB/div Ref 26.32 dBm		Mkr	2 2.428 15 GHz -6.28 dBm	Auto Fulk	
16.3			(mar. 1) (m. 193)	CenterFree	
DV				2.437000000 GH:	
.68	- with an		Nin-man		
R7		1		Start Fred	
α)		1		2.412000000 GH	
17		Contraction of the second seco			
17 and and a second second			and the second s	Stop Free	
3.7 9.7			1.11	2.462000000 GH	
enter 2.43700 GHz	200 147	Swaan A	Span 50.00 MHz	CF Ster	
Res BW 100 KH2 #0 BW	300 KH2	aweep 4	.oud ms (1001 pts)	Auto Mar	
1 N f 2.428.85 GHz	-0.06 dBm	TINCTION TINCTION WOTH			
2 N 1 F 2428 15 GHz 3 N 1 F 2445 90 GHz	-6 28 dBm -7.19 dBm			Freg Offse	
4				0 H:	
<u>ě</u>				-	
8					
9			-		
41 J J J	1	-	3		
sti		Stâtte			



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17800	>500	Pass

Figure Channel 11: (Chain A)

Frequency	10/11/30/14 (2010) 2015 19/01/11/21/21/31/51/5 19/01/11/21/21/31/51/51/51/51/51/51/51/51/51/51/51/51/51	e: Log-Pwr	Avg T	Trig: Free Rur	000 GHz	q 2.46200	ter Fre
Auto Tune	187 P URALIN	1.51	1	#Atten: 30 dB	IFGain:Low		_
	-7.02 dBm	IVIKI		_	dB Im	Ref Offset 6.3 Ref 26.31 c	Bidiv
CenterFreq							-
2.462000000 GHz		3	1		21		-
	().5/ dim						1
Start Freq		0			2		
2.437000000 GH2		Proversion of	_	-			
Ston Fren	To later the second second			-		10 - SIL	
2.487000000 GHz	1.11				1.1.1		10
CF Step	Span 50,00 MHz 300 ms (1001 pts)	Sweep 4.	1	W 300 kHz	#VE	200 GHz	ter 2.4 s BW 1
<u>Auto</u> Man		NERICOL WOTTIN	n auction [99	
Ered Offeet		-	_	-0.64 dBm -7.02 dBm	2.464 16 GHz 2.453 10 GHz	f	N
0 Hz				-7.17 gBm	2.4/0 80 GHZ	1	N
			-			1	
	1						
	- 1	Stâttes					

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17750	>500	Pass

Figure Channel 11: (Chain B)

Agilent Spectrum Ansier	zer SweetSA					
Center Freq 2.	162000000 GHz 1910: Led	Trig: Free Run	Avg Type	Log-Pwr	107 1/2 12 PM Oct 20, 2013 TSA/T 1 2 3 + 5 / TTS // WWWWW	Frequency
10 dB/div Ref 0	ffset 6,31 dB 26,31 dBm	PATIEN: 30 dB		Mkr2	2.453 15 GHz -6.78 dBm	Auto Tune
16.0 6.30 5.09	2 ¹				\$3 lb	Center Free 2.462000000 GH
-)37 -337 -23.7			X			Start Free 2.437000000 GH
-63 7 6077 463 7	h			"Teley land	State of the state	Stop Fre 2.487000000 GH
Center 2.46200 #Res BW 100 ki	GHz Hz #V	BW 300 kHz		Sweep 4.	Span 50.00 MHz 800 ms (1001 pts)	CF Ster 5.000000 MH
	2 453 90 GHz	-0.36 dBm	Training 110	CHILDRANG MILLING	11192109/0011	Auto Mar
2 N f 3 N f 4 5 6	2.453 15 GHz 2.470 90 GHz	-6.78 dBm -7.35 dBm			===	Freq Offse 0 Hi
7 9 10 11						-
e MSS				status	3.	



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	36800	>500	Pass

enter Freq 2.4220	DOODO GHz PNO: Faed () If Gain: Law	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TRACE V 2 14 5 5	Frequency
Ref Offset 6, 0 dBrdiv Ref 26,33	33 dB dBm		Mkr	2 2.403 6 GHz -15.23 dBm	Auto Tune
16.3 0.70	at		1		Center Freq 2.422000000 GHz
16	\$2 m			10.64	
28.7					Start Freq 2.372000000 GHz
417	and the second s		The second	Participa Colonge	Stop Freq
53.7			· · · · · · · · · · · · · · · · · · ·		2.472000000 GHz
enter 2.42200 GHz Res BW 100 kHz	#VBI	W 300 kHz	Sweep 9.6	Span 100.0 MHz 00 ms (1001 pts)	CF Step 10.000000 MHz
WE MOORE FEEL FEEL	2 105 4 Chin	2.00.47m	UNCTION FUNCTION WOTH	PUNCTION VALUE	<u>Auto</u> Man
2 N F 4 6	2,403 5 GHz 2,440 4 GHz	-16.23 dBm -16.39 dBm	11.5		Freq Offset 0 Hz
8 9 0					
11	1				

Figure Channel 1: (Chain A)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	36700	>500	Pass

Figure Channel 1: (Chain B)

Frequency	TRACE 1 2 1 4 5 6	vpe: Log-Pwr	Avg 1	rig: Free Run Atton: 30 dB	IZ NO: Fred (,	2000000 GI	q 2.42	Fre	ter l
Auto Tun	2.403 7 GHz -10.11 dBm	Mki	-		in the second second	et 6.33 dB 33 dBm	Ref Offs Ref 26.		3/div
Center Free 2 422000000 GH				01	.2				
Start Free 2.372000000 GH	-0,50,69%	03				~			
Stop Free 2.472000000 GH	Smenner					er and a second	and the second	~	
CF Ster 10.000000 MH	Span 100.0 MHz 00 ms (1001 pts)	Sweep 9.	1	00 KHZ	#VBW	łz	200 GI 00 KHz	2.43 N 1	ter 2 s BV
Auto Mai	FUNCTION VALUE	RENCTIONNELLE	FUNCTION	-3.50 dBm	3 GHz	2 423	CEE .	1	N
Freq Offse 0 H				10.11 dBm 15.10 dEm	7 GHz 4 GHz	2,403 2,440	r r	T	N



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36700	>500	Pass

				P#54	Ahalyzer - See	editor	nt Spe	Agtier
Frequency	IRACE 120450	Avg Type: Log-Pwr	Trie: Free Bun	0000 GHz	q 2.43700	r Fre	nter	Cer
Auto Ture	UEI® NNRRN		#Atten: 30 dB	IFGain:Low				
Auto Tune	2 2.418 6 GHz -15.80 dBm	Mkr		n dB IBM	Ref Offset 5.3 Ref 25.31 (iv I	B/div	10 d
Center Free	1.0						3	16.3
240700000 GH		A3		0.	- 10 - 1			-3.89
Start Fred	62 de 1	Y	1	¢2				11.
2.397000000 GH				1	-	-		23.7
L. Data a Tart	- tail	*Vnimenter			-	-		43.1
2.487000000 GH:						-		-89.7 63.4
CF Step 10.000000 MH	Span 100.0 MHz 00 ms (1001 pts)	Sweep 9.6	300 kHz	#VBI	1700 GHz 00 kHz	2.43 3W 1	nter es B	Cer #Re
Auto Mar	REAL PROPERTY IN THE PROPERTY INTERPOPERTY IN THE PROPERTY INTERPOPERTY IN THE PROPERTY INTERPOPERTY	UNION CONSCIONATION			201		11010	
ErenDiffeel			-15.90 dBm	2.420 1 GHz 2.418 6 GHz	f	1	N	2
0 Ha			-9./3 dBm	2.400 3 GHz	1	+	N	4
		-						8
								8
	-							10
		1 1	-	4	· · I · · · ·	1		11 £
		States						are:

Figure Channel 4: (Chain A)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36700	>500	Pass

Figure Channel 4: (Chain B)

Frequency	RETURNANS RETURNASE RETURNASE	07075/433 185 T	Log-Pwr	Avg Type	e Run	Trig: Fre	z 10: Fast (J	0000 GH	43700	9q 2.	Fre	er
Auto Tu	8 7 GHz 41 dBm	2 2.41	Mk			ECHAPIL V	em Low	2 dB IBm	ffset 6,3 26,32 d	Ref C		idiv
Center Fr 2.437000000 G							71					Ľ
	30000		-	0	-		♦ ²	-	_	+	_	
Start Fr 2.387000000 G			ALC: N		+					+		
Stop Fr	- miller		W.d.			-		and the	- Loller	+	50	-
CF Sto	100.0 MHz (1001 pts)	Span 600 ms	weep 9.	1	2	V 300 kHz	#VB		GHz	3700 00 k	2.43 W 1	er i BV
<u>Auto</u> M	DVI VALUE	FUNCT	STIDNINGTH	UNCTION FU	12m	258.0	CH7	2,419,6				
Freq Offs		_			iBm IBm	.9.41 d .16.10 d	GHz GHz	2,418 7 2,456 4		f	a.	N
	=	-										
	_		-	l	1		- 1					



Product	:	Wireless Storage Drive
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	36700	>500	Pass

Center Freq 2.4520	00000 GHz	Trig: Free Run	Avg Type: Log-Pwr	TRAFT 1 2 3 4 5 5 TRAFT 1 2 3 4 5 5 TRET WWWWW DET / WINNIN	Frequency
Ref Offset 6 10 dB/div Ref 26.30	3 de dBm		Mk	r2 2.433 6 GHz -14.62 dBm	Auto Tune
16.30 5.30			3	5000	Center Freq 2.452000000 GHz
-797 -797 -707					Start Freq 2.402000000 GHz
.187 50.7 497			a market	and the second sec	Stop Freq 2.502000000 GHz
Center 2.45200 GHz Res BW 100 kHz	#VBI	N 300 KHZ	Sweep 9.	Span 100.0 MHz 600 ms (1001 pts)	CF Step 10.000000 MHz
MAR MODE DEC SEE	×		CONCILIANT FORCE OF WOLLEN	SUNUTUR VALUE	Auto Men
1 N I F 2 N I F 3 N F 4 6	2,435 1 GHz 2,433 5 GHz 2,470 3 GHz	-323 dBm -14.62 dBm -9.32 dBm		-	Freq Offset 0 Hz
9 9 10 11				2	

Figure Channel 7: (Chain A)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	36700	>500	Pass

Figure Channel 7: (Chain B)

Aglient Spectrum Abolyzer - S	Swept SA				
W RL	(B) AC	101000	-11-637/02/10-	THEADARAMAN DALCARDS	Frequency
Center Freq 2.452	PNO: Fast (IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TIST MUMMUN	Trequency
Ref Offset 10 dB/div Ref 26.3	6.31 dB 1 dBm		Mki	2 2.433 7 GHz -10.51 dBm	Auto Tune
16.3 10.3				1.21.21	Center Free 2.452000000 GH
-9 69 E-	\$ ²	the area		202.00	
287					Start Free 2.402000000 GH
40.7	- all and a start			and the state of the second	Stop Fre 2.502000000 GH
Center 2,45200 GHz #Res BW 100 kHz	#VB	W 300 kHz	Sweep 9,	Span 100.0 MHz 500 ms (1001 pts)	CF Ste 10.000000 MH
MARE MOOR MINE SOL		100	TRACTOR FRANKLOW	S THURSDAY	<u>Auto</u> Ma
1 N F 2 N F 3 N F 4	2.469 9 GHz 2.433 7 GHz 2.470 4 GHz	3.59 dBm -10.51 dBm -15.29 dBm			Freq Offse
6 7 8 9				_	
20125			STUTEL		

8. Power Density

8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

8.5. Uncertainty

 \pm 1.27 dB

8.6. Test Result of Power Density

Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	6.48	< 8dBm	Pass

Figure Channel 1:

2.412000	000 GHz		VSEGNI		OT REAL ALLER		A REAL PROPERTY AND A REAL	
	DNO: Foot	Tria: Free	Run	Avg Type	: Log-Pwr	TRAC TYP	E 1 2 3 4 5 6	Frequency
ef Offset 6.33 d	IFGain:Lov	/ #Atten: 30) dB		Mkr1 2.	409 995	5 7 GHz	Auto Tune
ef 26.33 dB	m					0		Center Fred 2.412000000 GHz
m	m	hay	ma	m	-sr	~		Start Free 2.404350000 GH:
						V	1 Al	Stop Fred 2.419650000 GH7
								CF Step 1.530000 MH Auto Mar
								Freq Offse 0 H:
000 GHz) KHz	#V	BW 300 kHz			Sweep 1.	Span 1: 467 ms (5.30 MHz 1001 pts)	
	ef 26.33 dB	ef 26.33 dBm	ef 26.33 dBm	ef 26.33 dBm	ef 26.33 dBm	ef 26.33 dBm	6.4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	6.48 dBm 6.48 dBm



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437	6.05	< 8dBm	Pass

Figure Channel 6:

Agilent Spectrum Analyzer - Swept SA				
Center Freq 2.437000000 G		ALIGNAUTO	06:16:29 PM Oct 20, 2015 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 6.31 dB	NO: Fast 💭 Thg. Free Run Gain:Low #Atten: 30 dB	Mkr1 2.4	35 011 0 GHz 6.05 dBm	Auto Tune
				Center Freq 2.437000000 GHz
6.31 -3.69	man	harry		Start Freq 2.429350000 GHz
-13.7			V	Stop Freq 2.444650000 GHz
-43.7				CF Step 1.530000 MHz <u>Auto</u> Man
-63.7				Freq Offset 0 Hz
Center 2.437000 GHz #Res BW 100 kHz	#VBW 300 kHz	Sweep 1.40	Span 15.30 MHz 37 ms (1001 pts)	



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

Channel No.	Frequency Measure Level (MHz) (dBm)		Limit (dBm)	Result
11	2462	6.49	< 8dBm	Pass

Figure Channel 11:

Agilent Spect	rum Analyzer - Sw	vept SA								
Center F	RF 50 S	2 AC 00000 GH	z	SEN	ISE:INT	Avg Type	ALIGNAUTO : Log-Pwr	06:25:06 PM TRAC	4 Oct 20, 2015	Frequency
	Ref Offset 6.	PN IFG 31 dB dBm	IO: Fast 🖕 ain:Low	#Atten: 30	l dB		Mkr1 2	.460 01 .6.	1 0 GHz 49 dBm	Auto Tune
16.3										Center Freq 2.462000000 GHz
6.31 -3.69	AF	Mary	nt	M	front	m	-n.	~		Start Freq 2.454350000 GHz
-13.7									Jer -	Stop Freq 2.469650000 GHz
-33.7										CF Step 1.530000 MHz <u>Auto</u> Man
-53.7										Freq Offset 0 Hz
-63.7 Center 2.	462000 GHz							Span 1	5.30 MHz	
#Res BW	100 KHz	_	#VBW	300 kHz	94 Y		Sweep 1	.467 ms (1001 pts)	



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-0.11	< 8dBm	Pass

Figure Channel 1:

Agilent Spect	rum Analyzer - Sw	ept SA								
Center F	RF 50 Ω req 2.4120	AC 00000 GH	łz	SEN	ISE:INT	Avg Type	ALIGNAUTO	06:39:11F	M Oct 20, 2015 CE 1 2 3 4 5 6	Frequency
	Ref Offset 6.	9 IFC 33 dB	NO: Fast 🖕 Gain:Low	#Atten: 30	l dB		Mkr	1 2.404	B11 GHz	Auto Tune
10 dB/div Log	Ref 26.33	dBm	_					-0.	11 dBm	
16.3					-	_	-			Center Freq 2.412000000 GHz
6.33 -3.67	ma	manan	mono	provining	parete The	- Contraction of the Contraction	mars with the	wine		Start Freq 2.399475000 GHz
-13.7	- A				4			to		Stop Freq 2.424525000 GHz
-33.7 -33.7	M						1	,	WWWW	CF Step 2.505000 MHz <u>Auto</u> Man
-53.7										Freq Offset 0 Hz
-63.7			1					2		
Center 2. #Res BW	.41200 GHz 100 kHz		#VBW	300 kHz			Sweep :	Span 2 2.400 ms	25.05 MHz (1001 pts)	
MSG							STATU	IS		



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2437MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437	-0.25	< 8dBm	Pass

Figure Channel 6:

Agilent Spect	rum Analyzer - Sw	ept SA								
Center F	RF 50 Ω req 2.4370	AC 00000 GH	łz	SEN	SEINT	Avg Type	LIGNAUTO	06:45:38F	M Oct 20, 2015 CE 1 2 3 4 5 6	Frequency
		PI IFC	NO: Fast 📮 Sain:Low	#Atten: 30	dB	N. C			ET P NNNNN	Auto Tupe
10 dB/div	Ref Offset 6. Ref 26.31	31 dB d Bm					Mkr1	2.430	136 GHz 25 dBm	Auto Func
16.3	_									Center Freq 2.437000000 GHz
6.31	- r	na name	monuscial	month	manne	Alphanappan	naryanyanya	-		Start Freq 2.424475000 GHz
-13.7	mand							1 million		Stop Freq 2.449525000 GHz
-33.7 -43.7	ward and a second and a second and a second a se								the work of	CF Step 2.505000 MHz <u>Auto</u> Man
-53.7										Freq Offset 0 Hz
-63.7			1 1					2	1	
Center 2. #Res BW	.43700 GHz 100 kHz		#VBW	300 kHz			Sweep 1	Span 2 2.400 ms	25.05 MHz (1001 pts)	
MSG							STATU	s		



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps) (2462MHz)
Test Site Test Mode	:	No.3 OATS Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
11	2462	-0.37	< 8dBm	Pass

Figure Channel 11:

Agilent Spectr	rum Analyzer - Sw	ept SA								
Center F	RF 50 Ω req 2.46200	AC 00000 GH	z		ISE:INT	Avg Type	LIGNAUTO	06:51:04F	M Oct 20, 2015 CE 1 2 3 4 5 6	Frequency
		P IFC	NO: Fast Ģ Gain:Low	#Atten: 30	dB	10.1	1.1		DET P N N N N N	Auto Tupo
10 dB/div	Ref Offset 6. Ref 26.31	31 dB d Bm	12				Mkr1	2.459 -0	896 GHz .37 dBm	Auto i une
16.3	_					_				Center Freq 2.462000000 GHz
6.31 -3.69		honorany	en june menug	1 mm	phonometry	mana maria	hand and have	unig		Start Freq 2.449475000 GHz
-13.7	and the second s							Land Star		Stop Freq 2.474525000 GHz
-33.7 Amaria	put								J. M. Christon	CF Step 2.505000 MHz <u>Auto</u> Man
-53.7										Freq Offset 0 Hz
-63.7 Center 2.4	46200 GHz		#\/B)A	(300 kHz			Sween 2	Span 2	25.05 MHz (1001 pts)	
MSG	TVV NIIZ		70000	000 M/12	14	,	STATUS		(1001 pro)	



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz)

CHAIN	PPSD/MHz (dBm)	PPSD/MHz (dBm) (dBm)1 Total PPSD/MHz (dBm)1		Result
А	-0.610	2.40	< 8dBm	Pass
В	0.070	3.08	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.





Figure Channel 1: (Chain B)





Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437MHz)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
А	-1.37	1.64	< 8dBm	Pass
В	0.09	3.1	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.



Figure Channel 6: (Chain A)

Figure	Channel	6:	(Chain	B)
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Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462MHz)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
А	-0.67	2.34	< 8dBm	Pass
В	-0.30	2.71	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.



Figure Channel 11: (Chain A)



Figure Channel 11: (Chain B)



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
А	-3.56	-0.55	< 8dBm	Pass
В	-3.56	-0.55	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.



Figure Channel 1: (Chain A)

Figure Channel 1: (Chain B)

nter Freq 2.422000000 G	Hz Trig: Free Run	Avg Type: Log-Pwr	17:303104 04:20,20.5 TRACE 2.3.4.5.6 (%-14)-14:5.6 17:5.11:NN/11.N	Frequency
Ref Offset 6.33 dB dB/div Ref 26.33 dBm	forecting Petran: au dis	Mkr	1 2.439 51 GHz -3.56 dBm	Auto Tune
3		-		Center Free 2.422000000 GH
7	to an a star and a star and			Start Fre 2.394476000 GH
			1	Stop Fre 2.449525000 GH
T AND			1 min	CF Ste 6.505000 MH <u>Auto</u> Ma
-				Freq Offse 0 H
nter 2.42200 GHz		6	Span 55.05 MHz	



Product	:	Wireless Storage Drive
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
А	-3.59	-0.58	< 8dBm	Pass
В	-2.55	0.46	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.



Figure Channel 4: (Chain A)







:	Wireless Storage Drive
:	Power Density Data
:	No.3 OATS
:	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452MHz)
	: : :

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
А	-3.02	-0.01	< 8dBm	Pass
В	-3.41	-0.40	< 8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.



Figure Channel 7: (Chain A)



Figure Channel 7: (Chain B)



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.



Attachment 1: EUT Test Photographs



Attachment 2: EUT Detailed Photographs