RADIO TEST REPORT

Applicant : AOpen Inc.

Address 5F., No.15, Ln. 128, Sinhu 1st Rd.,

Neihu District, Taipei City 114, Taiwan(R.O.C.)

Equipment : AOPEN Chromebase Commercial

Model No. : WT22M-FBG

Trade Name : AOPEN

FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

I HEREBY CERTIFY THAT:

The sample was received on Aug. 20, 2015 and the testing was carried out on Sep. 07, 2015 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Tested by:

Steven Wang

Spree Yei

Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

NVLAP LAB CODE 200954-0

Report No.: TEGE1508142

Cerpass Technology(SuZhou) Co., Ltd.

CNAS LESTING

NVLAPLAB CODE 200814-0

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History of this test report

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■ ORIGINAL.

 $\hfill\square$ Additional attachment as following record:

Attachment No.	Issue Date	Description
TEGE1508142	Sep. 09, 2015	Original.

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1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.4: 2009

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB789033

RSS-247 issue 1

RSS-Gen issue 3

FCC Rule	IC Rule	. Description of Test	Result
15.203	RSS-GEN 6.7	. Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	. AC Power Line Conducted Emission	Pass
15.407(b) 15.209	RSS-GEN Section 8.9 & 8.10	. Radiated Spurious Emission	Pass
15.407(a)	RSS-247	. 26 dB Occupied Bandwidth	Pass
15.407	RSS-247 6.2.4	. 6dB Bandwidth	Pass
15.407 (a) & (a)(3)	RSS-247 6.2 & 6.2.4	. Average Power	Pass
15.407(a)	RSS-247 6.2 &6.2.4	. Output and PPSD	Pass
15.407(h)(2)	RSS-247 6.3	. Dynamic Frequency Selection	Pass

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2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Frequency Range	802.11a/an/ac: 5150-5250MHz/ 5250-5350MHz,	
	5470-5725MHz, 5725-5850MHz	
	802.11b/g/n: 2412-2462MHz	
	Bluetooth: 2402-2480 MHz	
Type of Modulation	OFDM, DSSS, FHSS, GFSK (Bluetooth low energy)	
Channel of Bandwidth	802.11a/an/ac: 20MHz/ 40MHz/ 80MHz	
	802.11b/g/n: 5MHz	
	Bluetooth: 1MHz	
	Bluetooth Low Energy: 2MHz	
Data Rate	802.11a/an/ac: up to 867Mbps	
	802.11b/g/n: up to 270Mbps	
	Bluetooth: 1, 2, 3Mbps	
	Bluetooth Low Energy: 1Mbps	
Type of Antenna	Printed antenna*2	
Antenna Gain	2 dBi	
Rating Input	I/P: 100-240Vac, 50-60Hz, 1.5A	
-	O/P: 19Vdc, 4.74A	

2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11an HT 20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)	
*36	5180	*44	5220	
40	5200	*48	5240	

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80

Channel	Frequency(MHz)	
*42	5210	

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Band: 5250MHz -5350MHz

802.11a, 802.11an HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)	
*52	5260	*60	5300	
56	5280	*64	5320	

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*54	5270	*62	5310

802.11ac VHT80

Channel	Frequency(MHz)	
*58	5290	

Band: 5470MHz -5725MHz

802.11a, 802.11an HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*100	5500	*116	5580
104	5520	132	5660
108	5540	136	5680
122	5560	*140	5700

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*102	5510	*134	5670
*110	5550		

802.11ac VHT80

Channel	Frequency(MHz)
*106	5530

Band: 5725MHz -5850MHz

802.11a, 802.11an HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*149	5745	*157	5785
153	5765	161	5805
155	5775	*165	5825

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

802.11ac VHT80

Channel	Frequency(MHz)				
*155	5775				

Note: Channels remarked * are selected to perform test.

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2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Keyboard, Notebook and EUT for RF test.
- c. An executive program, "DRUT" under Chrome was executed to transmit and receive data via WLAN.

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d. Pre-Scanned RF Power:

Band: 5150MHz - 5250MHz

Antenna A	802.11a mode							
Data Rate	6M	9M	12M	18M	24M	36M	48M	54M
Avg. Power Output(dBm)	12.58	12.53	12.45	12.41	12.37	12.33	12.24	12.03
Peak. Power Output(dBm)	18.11	18.36	18.15	18.24	18.06	18.33	18.46	18.52
Antenna B								
Avg. Power Output(dBm)	12.83	12.69	12.71	12.11	12.36	12.49	12.51	12.59
Peak. Power Output(dBm)	16.33	17.22	17.92	18.35	18.78	19.24	19.67	19.78

Antenna A		802.11n HT20 mode						
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	10.54	10.34	10.44	10.25	10.49	10.34	10.26	10.21
Peak. Power Output(dBm)	16.44	16.56	16.71	17.23	17.58	18.02	18.26	18.39
Antenna B								
Avg. Power Output(dBm)	10.72	10.69	10.71	10.55	10.51	10.37	10.44	10.11
Peak. Power Output(dBm)	16.27	16.71	16.75	17.44	17.76	18.25	18.36	18.43

Antenna A	802.11n HT40 mode							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	6.73	6.38	6.49	6.51	6.44	6.56	6.41	6.57
Peak. Power Output(dBm)	12.24	13.48	13.91	14.22	15.36	16.11	17.52	18.53
Antenna B								
Avg. Power Output(dBm)	6.2	6.17	6.01	6.18	6.02	5.83	5.99	5.80
Peak. Power Output(dBm)	11.8	12.99	13.47	14.06	15.11	16.08	17.24	18.13

Antenna A		802.11n VHT80 mode								
Data Rate	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT
	0	1	2	3	4	5	6	7	8	9
Avg. Power Output(dBm)	6.53	6.44	6.49	6.46	6.47	6.51	6.31	6.38	6.29	6.33
Antenna B										
Avg. Power Output(dBm)	6.53	6.33	6.29	6.28	6.34	6.49	6.37	6.18	6.22	6.09

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Band: 5250MHz - 5350MHz

Antenna A	802.11a mode							
Data Rate	6M	9M	12M	18M	24M	36M	48M	54M
Avg. Power Output(dBm)	13.77	13.52	13.46	13.35	13.51	13.63	13.41	13.44
Peak. Power Output(dBm)	17.59	17.55	17.69	18.11	18.15	18.25	18.32	18.33
Antenna B								
Avg. Power Output(dBm)	14.62	14.52	14.66	14.08	14.21	14.36	14.28	14.15
Peak. Power Output(dBm)	19.68	19.78	19.85	19.92	20.24	20.43	20.51	20.54

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Antenna A		802.11n HT20 mode							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
Avg. Power Output(dBm)	11.52	11.19	11.22	11.17	11.39	11.14	11.21	11.18	
Peak. Power Output(dBm)	16.36	16.77	16.85	17.25	17.69	18.01	18.12	18.21	
Antenna B									
Avg. Power Output(dBm)	11.63	11.42	11.36	11.22	11.29	11.08	11.34	11.09	
Peak. Power Output(dBm)	16.88	16.83	16.91	17.33	17.78	18.05	18.45	18.85	

Antenna A	802.11n HT40 mode							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	7.78	7.66	7.58	7.49	7.43	7.11	7.05	6.94
Peak. Power Output(dBm)	13.85	14.22	15.63	15.78	16.29	16.76	17.11	17.66
Antenna B								
Avg. Power Output(dBm)	7.66	7.54	7.61	7.63	7.58	7.25	7.11	7.03
Peak. Power Output(dBm)	13.11	14.03	15.45	15.66	16.01	16.59	17.23	17.79

Antenna A		802.11n VHT80 mode								
Data Rate	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT
	0	1	2	3	4	5	6	7	8	9
Avg. Power Output(dBm)	7.22	7.09	7.19	7.18	7.11	7.08	7.15	7.10	7.04	7.01
Antenna B										
Avg. Power Output(dBm)	7.2	7.1	7.05	6.84	6.95	6.89	7.02	6.91	6.88	6.95

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Band: 5470MHz - 5600MHz

Antenna A		802.11a mode						
Data Rate	6M	9M	12M	18M	24M	36M	48M	54M
Avg. Power Output(dBm)	11.56	11.35	11.43	11.39	11.25	11.18	11.26	11.23
Peak. Power Output(dBm)	17.23	17.88	18.23	18.59	18.65	18.77	19.02	19.11
Antenna B								
Avg. Power Output(dBm)	11.94	11.83	11.79	11.72	11.61	11.58	11.43	11.33
Peak. Power Output(dBm)	17.63	17.92	18.55	18.73	18.86	19.21	19.67	20.12

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Antenna A		802.11n HT20 mode						
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	8.65	8.58	8.59	8.55	8.51	8.46	8.37	8.32
Peak. Power Output(dBm)	14.33	14.79	15.42	15.91	16.55	17.23	17.88	18.66
Antenna B								
Avg. Power Output(dBm)	8.73	8.70	8.71	8.67	8.56	8.33	8.41	8.43
Peak. Power Output(dBm)	14.65	14.81	15.54	15.99	16.72	17.43	17.92	18.29

Antenna A		802.11n HT40 mode						
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	6.93	6.81	6.77	6.86	6.77	6.52	6.72	6.81
Peak. Power Output(dBm)	12.66	13.58	14.16	15.63	16.01	16.88	17.45	18.23
Antenna B								
Avg. Power Output(dBm)	6.65	6.61	6.58	6.38	6.62	6.45	6.59	6.55
Peak. Power Output(dBm)	12.18	13.44	14.28	15.71	16.12	16.81	17.52	18.82

Antenna A		802.11n VHT80 mode								
Data Rate	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT
	0	1	2	3	4	5	6	-	8	9
Avg. Power Output(dBm)	7.23	7.06	7.15	6.88	7.01	6.98	6.89	7.12	7.05	7.04
Antenna B										
Avg. Power Output(dBm)	7.14	7.03	7.05	6.56	7.10	7.11	7.02	6.91	6.85	6.78

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Band: 5725MHz - 5850MHz

Antenna A		802.11a mode						
Data Rate	6M	9M	12M	18M	24M	36M	48M	54M
Avg. Power Output(dBm)	13.71	13.68	13.69	13.75	13.66	13.59	13.65	13.70
Peak. Power Output(dBm)	18.46	18.33	18.41	18.39	18.37	18.40	18.32	18.30
Antenna B								
Avg. Power Output(dBm)	15.32	15.11	15.09	15.13	15.24	15.22	15.26	15.14
Peak. Power Output(dBm)	20.22	20.01	20.23	20.28	20.36	20.41	20.55	20.33

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Antenna A		802.11n HT20 mode						
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	12.08	11.93	11.86	11.83	11.72	11.46	11.42	11.33
Peak. Power Output(dBm)	17.78	18.23	18.52	18.76	19.05	19.22	19.46	19.68
Antenna B								
Avg. Power Output(dBm)	12.11	12.01	11.96	11.82	11.75	11.67	11.55	11.43
Peak. Power Output(dBm)	18.07	18.43	18.84	19.02	19.11	19.45	19.57	19.66

Antenna A		802.11n HT40 mode						
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power Output(dBm)	12.33	12.11	11.89	11.78	11.67	11.53	11.45	11.37
Peak. Power Output(dBm)	17.76	18.22	18.43	18.86	19.02	19.11	19.43	19.5
Antenna B								
Avg. Power Output(dBm)	12.55	12.51	12.37	12.48	12.29	12.37	12.43	12.35
Peak. Power Output(dBm)	18.55	18.67	18.88	19.05	19.14	19.28	19.67	20.42

Antenna A		802.11n VHT80 mode								
Data Rate	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT	VHT
	0	1	2	3	4	5	6	7	8	9
Avg. Power Output(dBm)	12.2	12.1	12.0	11.7	11.6	12.0	11.1	11.9	11.8	11.7
3	9	8	3	2	5	3	5	1	2	8
Antenna B										
Avg. Power Output(dBm)	12.4	12.3	12.2	12.4	12.3	12.4	12.1	12.2	12.3	12.1
3 1 1 1 1 1 1 1 1	5	6	4	1	8	4	2	7	5	9

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e. Test modes:

Test Mode 1. 802.11a (6Mbps)

Test Mode 2. 802.11an HT20 (13Mbps)

Test Mode 3. 802.11an HT40 (27Mbps)

Test Mode 4. 802.11ac VHT20 (13Mbps)

Test Mode 5. 802.11ac VHT40 (27Mbps)

Test Mode 6. 802.11ac VHT80 (58.5Mbps)

Test Mode 6 generates the worst case; it was reported as final result.

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Base on the pre-scan data, the worst case data were:

802.11a mode: 6Mbps

802.11an HT20 mode: 13Mbps802.11an HT40 mode: 27Mbps802.11ac VHT80 mode: 58.5Mbps

2.4. Description of Test System

Device	Manufacturer	Model No.	Description
Mouse	DELL	M-UV83	USB Cable, Shielding, 1.8m
Keyboard	DELL	SK-8175	USB Cable, Shielding, 1.8m
Remote Workstation	on		
Notebook	HP	ProBook 5310m	Power Cable, Unshielding, 1.8m
AP Router (for DFS test)	D-Link	AC1570	FCC ID: KA2IR868LA1

Used cable

Cable	Quantity	Description
Network Cable	1	Unshielding, 1.2m

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2.5. General Information of Test

	Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061,390316, 228391, 641184
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
	Test Site	Cerpass Technology (Suzhou) Co.,Ltd Address: No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666
	FCC	916572, 331395
	IC	7290A-1, 7290A-2
	VCCI	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test G-227 for radiated disturbance above 1GHz
Frequency F	Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz
Test Distance:		The test distance of radiated emission from antenna to EUT is 3 M.

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3. Test Equipment and Ancillaries Used for Tests

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2015/03/07	2016/03/06
PREAMPLIFIER	AGILENT	8449B	3008A01954	2015/03/05	2016/03/04
HORN ANTENNA	EMCO	3115	31589	2015/03/09	2016/03/08
HIGH PASS FILTER	HP	84300-80038	006	N/A	N/A
HORN ANTENNA	EMCO	3116	31970	2015/03/05	2016/03/04
Bilog Antenna	SchwarzBeck	VULB 9168	275	2014/09/18	2015/09/17
Amplifier	Agilent	8447D	2944A10539	2014/03/11	2015/03/10
SERIES POWER METER	ANRITSU	ML2495A	1224005	2015/03/05	2016/03/04
POWER SENSOR	ANRITSU	MA2411B	1207295	2015/03/05	2016/03/04
PREAMPLIFIER	MITEQ	AMF-7D-0010 1800-30-10P	186212	2015/03/09	2016/03/08
Microware Preamplifier	EMC INSTRUMEN TS	EMC184045	980065	2014/09/01	2015/08/31
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54200207	2015/03/14	2016/03/13
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2015/03/13	2016/03/12
TEMPERATURE CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2014/10/17	2015/10/16
DC Power Supply	GPD-3030	GM	7020936	N/A	N/A
AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A	N/A

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Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2. Antenna Construction and Directional Gain

No.	Antenna Type	Antenna Gain
Α	Printed antenna	2.0 dBi
В	Printed antenna	2.0 dBi

Directional gain =
$$G_{ant} + 10log(N)$$
 dBi
= $2 + 10log(2)$
= $5 (dBi)$

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5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB µ V)
0.15 – 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 – 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

5.2. Test Procedures

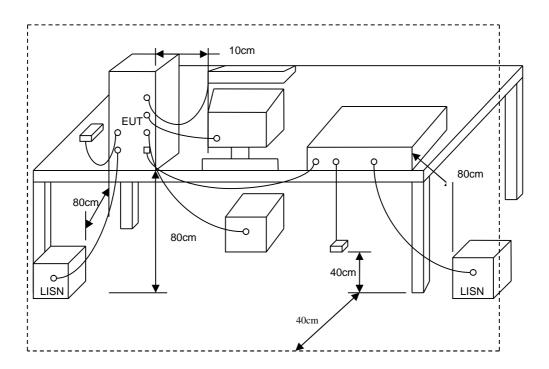
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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5.3. Typical Test Setup



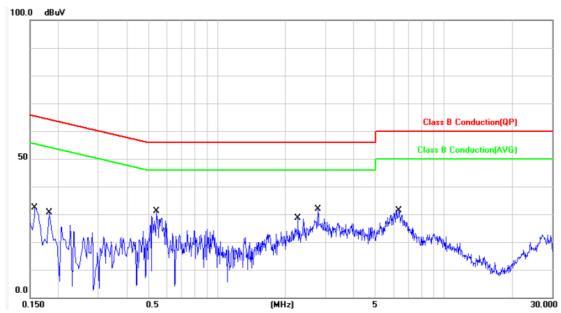
Report No.: TEGE1508142

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5.4. Test Result and Data

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode	:	Mode 6	Temperature	:	26 °C
Test date	:	Sep. 01, 2015	Humidity	:	48 %
Memo	:		Atmospheric Pressure	:	1008 hpa

Report No.: TEGE1508142



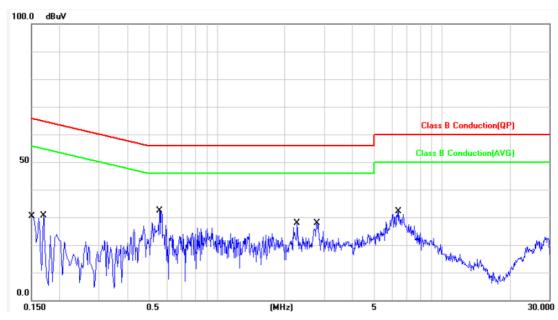
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	-0.02	36.80	36.78	65.56	-28.78	QP	Р
2	0.1580	-0.02	24.19	24.17	55.56	-31.39	AVG	Р
3	0.1819	-0.02	26.45	26.43	64.39	-37.96	QP	Р
4	0.1819	-0.02	11.23	11.21	54.39	-43.18	AVG	Р
5	0.5420	-0.04	26.37	26.33	56.00	-29.67	QP	Р
6	0.5420	-0.04	13.56	13.52	46.00	-32.48	AVG	Р
7	2.2780	-0.10	26.36	26.26	56.00	-29.74	QP	Р
8	2.2780	-0.10	15.10	15.00	46.00	-31.00	AVG	Р
9	2.7940	-0.11	30.34	30.23	56.00	-25.77	QP	Р
10	2.7940	-0.11	19.87	19.76	46.00	-26.24	AVG	Р
11	6.3420	-0.16	25.94	25.78	60.00	-34.22	QP	Р
12	6.3420	-0.16	17.97	17.81	50.00	-32.19	AVG	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = (LISN, ISN, PLC, or Current Probe) Factor + Cable Loss + Attenuator

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Power	:	AC 120V	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 6	Temperature	:	26 °C
Test date	:	Sep. 01, 2015	Humidity	:	48 %
Memo	:		Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	-0.02	31.05	31.03	65.99	-34.96	QP	Р
2	0.1500	-0.02	17.94	17.92	55.99	-38.07	AVG	Р
3	0.1700	-0.02	25.61	25.59	64.96	-39.37	QP	Р
4	0.1700	-0.02	7.55	7.53	54.96	-47.43	AVG	Р
5	0.5580	-0.04	28.57	28.53	56.00	-27.47	QP	Р
6	0.5580	-0.04	17.38	17.34	46.00	-28.66	AVG	Р
7	2.2740	-0.10	25.80	25.70	56.00	-30.30	QP	Р
8	2.2740	-0.10	13.69	13.59	46.00	-32.41	AVG	Р
9	2.7900	-0.11	25.70	25.59	56.00	-30.41	QP	Р
10	2.7900	-0.11	15.52	15.41	46.00	-30.59	AVG	Р
11	6.4220	-0.16	25.94	25.78	60.00	-34.22	QP	Р
12	6.4220	-0.16	18.30	18.14	50.00	-31.86	AVG	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = (LISN, ISN, PLC, or Current Probe) Factor + Cable Loss + Attenuator

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6. Test of Spurious Emission (Radiated)

6.1. Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

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

6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

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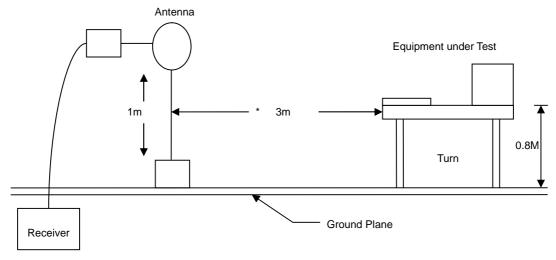
Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

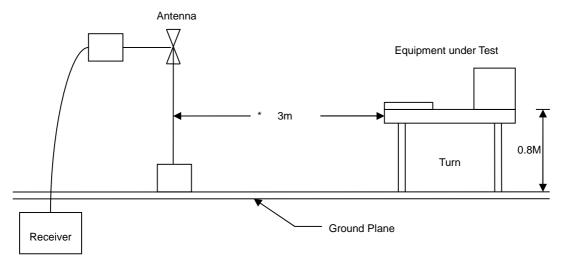


6.3. Typical Test Setup

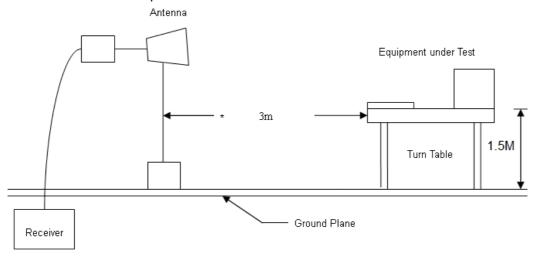
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



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6.4. Test Result and Data (9kHz ~ 30MHz)

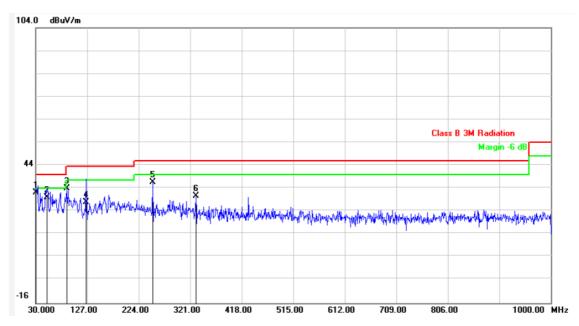
The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5. Test Result and Data (30MHz ~ 1GHz)

6.5.1. Test Result and Data of Transmitter

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature	••	18 °C
Test Date	:	Sep. 02, 2015	Humidity		49 %
Memo	:	CH 42	Atmospheric Pressure		1008 hpa

Report No.: TEGE1508142



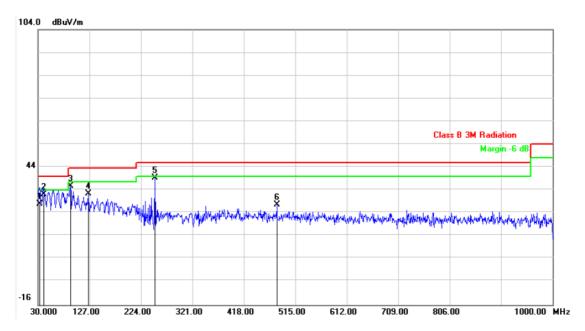
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	30.0000	0.57	31.73	32.30	40.00	-7.70	QP	104	185	Р
2	51.3400	0.77	29.43	30.20	40.00	-9.80	QP	104	185	Р
3	88.2000	0.96	33.12	34.08	43.50	-9.42	peak	104	185	Р
4	125.0600	1.12	26.78	27.90	43.50	-15.60	QP	104	185	Р
5	250.1900	1.58	35.12	36.70	46.00	-9.30	peak	104	185	Р
6	331.6700	1.89	28.72	30.61	46.00	-15.39	peak	104	185	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	18 °C
Test Date	:	Sep. 02, 2015	Humidity	:	49 %
Memo	:	CH 42	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	32.9100	0.60	27.30	27.90	40.00	-12.10	QP	104	185	Р
2	40.6699	0.68	31.52	32.20	40.00	-7.80	QP	104	185	Р
3	91.1100	0.97	34.92	35.89	43.50	-7.61	peak	104	185	Р
4	125.0600	1.12	31.26	32.38	43.50	-11.12	peak	104	185	Р
5	250.1900	1.58	37.72	39.30	46.00	-6.70	peak	104	185	Р
6	480.0800	2.30	25.30	27.60	46.00	-18.40	peak	104	185	Р

Note: Level = Reading + Factor Margin = Level - Limit

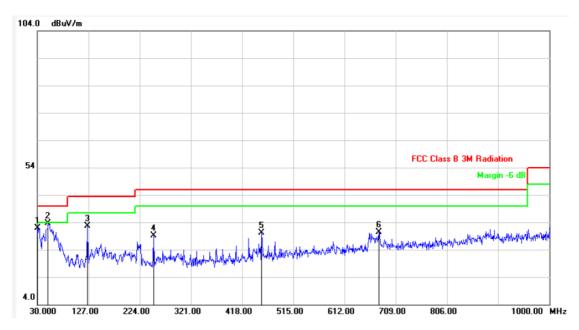
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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6.5.2. Test Result and Data of Receiver

Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode		Mode 6	Temperature :	24 °C
Test Date		Sep. 02, 2015	Humidity :	57 %
Memo		CH 42	Atmospheric Pressure :	1008 hpa

Report No.: TEGE1508142



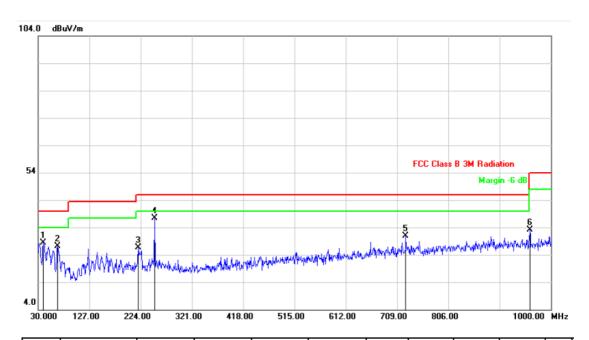
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	30.0000	-8.04	39.87	31.83	40.00	-8.17	peak	102	188	Р
2	50.3700	-7.26	40.93	33.67	40.00	-6.33	peak	102	188	Р
3	125.0600	-8.98	41.52	32.54	43.50	-10.96	peak	102	188	Р
4	250.1900	-8.34	37.41	29.07	46.00	-16.93	peak	102	188	Р
5	454.8600	-2.31	32.39	30.08	46.00	-15.92	peak	102	188	Р
6	676.9900	1.70	28.65	30.35	46.00	-15.65	peak	102	188	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 02, 2015	Humidity	:	57 %
Memo	:	CH 42	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	39.7000	-7.53	36.01	28.48	40.00	-11.52	peak	102	188	Р
2	66.8600	-9.44	36.55	27.11	40.00	-12.89	peak	102	188	Р
3	219.1500	-10.01	36.74	26.73	46.00	-19.27	peak	102	188	Р
4	250.1900	-8.34	45.63	37.29	46.00	-8.71	peak	102	188	Р
5	725.4900	2.42	28.47	30.89	46.00	-15.11	peak	102	188	Р
6	960.2300	5.83	27.42	33.25	54.00	-20.75	peak	102	188	Р

Note: Level = Reading + Factor Margin = Level - Limit

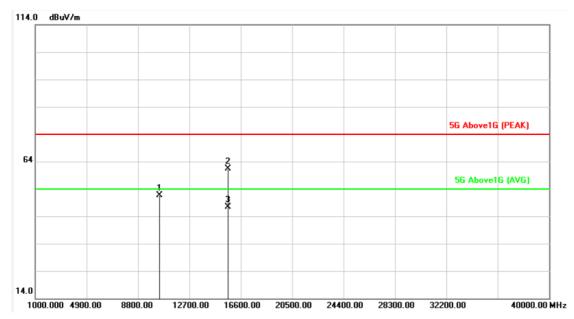
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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6.6. Test Result and Data (Above 1GHz)

6.6.1. Test Result and Data of Transmitter

Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode		Mode 6	Temperature :	24 °C
Test Date		Sep. 03, 2015	Humidity :	57 %
Memo		CH 42	Atmospheric Pressure :	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10420.000	17.73	33.98	51.71	74.00	-22.29	peak	104	182	Р
2	15630.000	20.81	40.46	61.27	74.00	-12.73	peak	104	182	Р
3	15630.000	20.81	26.51	47.32	54.00	-6.68	AVG	104	182	Р

Note: Level = Reading + Factor Margin = Level - Limit

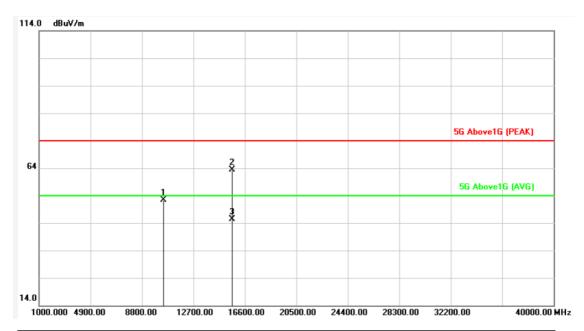
Factor = Antenna Factor + Cable Loss - Amplifier Factor

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IC ID : 20532-22MFBG7260N

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 6	Temperature	:	24 °C
Test Date		Sep. 03, 2015	Humidity	:	57 %
Memo		CH 42	Atmospheric Pressure	:	1008 hpa



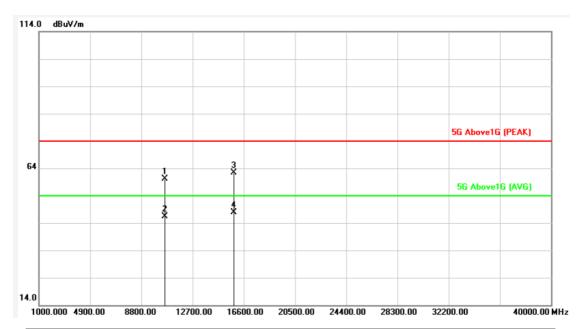
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBu∀/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10420.000	17.73	34.68	52.41	74.00	-21.59	peak	104	182	Р
2	15630.000	20.81	42.47	63.28	74.00	-10.72	peak	104	182	Р
3	15630.000	20.81	24.47	45.28	54.00	-8.72	AVG	104	182	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature		24 °C
Test Date	:	Sep. 03, 2015	Humidity		57 %
Memo	:	CH 58	Atmospheric Pressure		1008 hpa



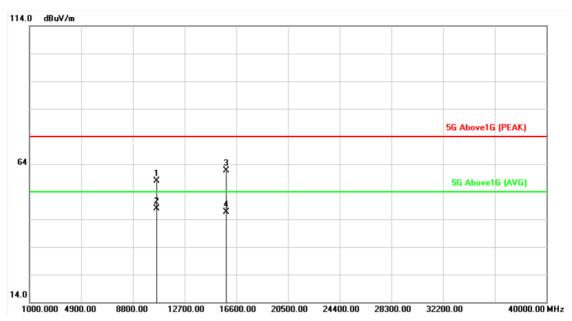
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10580.000	18.00	42.25	60.25	74.00	-13.75	peak	101	183	Р
2	10580.000	18.00	28.33	46.33	54.00	-7.67	AVG	101	183	Р
3	15870.000	20.60	41.76	62.36	74.00	-11.64	peak	101	183	Р
4	15870.000	20.60	27.18	47.78	54.00	-6.22	AVG	101	183	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 58	Atmospheric Pressure	:	1008 hpa



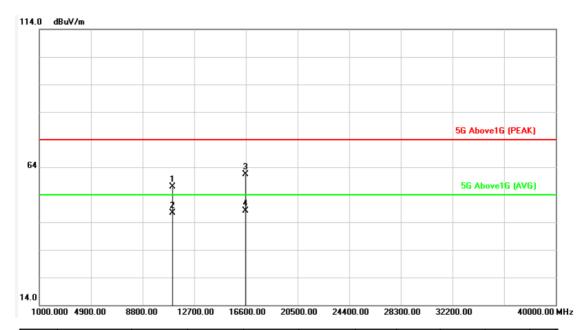
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBu∀/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10580.000	18.00	39.87	57.87	74.00	-16.13	peak	101	183	Р
2	10580.000	18.00	29.89	47.89	54.00	-6.11	AVG	101	183	Р
3	15870.000	20.60	41.06	61.66	74.00	-12.34	peak	101	183	Р
4	15870.000	20.60	25.92	46.52	54.00	-7.48	AVG	101	183	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 106	Atmospheric Pressure	:	1008 hpa



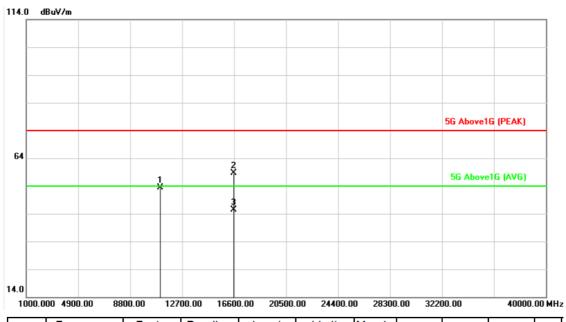
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11060.000	18.79	38.17	56.96	74.00	-17.04	peak	105	178	Р
2	11060.000	18.79	28.53	47.32	54.00	-6.68	AVG	105	178	Р
3	16590.000	22.66	38.76	61.42	74.00	-12.58	peak	105	178	Р
4	16590.000	22.66	25.49	48.15	54.00	-5.85	AVG	105	178	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 106	Atmospheric Pressure	:	1008 hpa



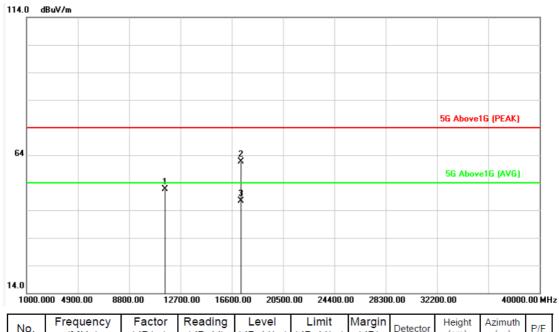
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11060.000	18.79	34.53	53.32	74.00	-20.68	peak	105	182	Р
2	16590.000	22.66	36.05	58.71	74.00	-15.29	peak	105	182	Р
3	16590.000	22.66	22.67	45.33	54.00	-8.67	AVG	105	182	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode		Mode 6	Temperature		24 °C
Test Date		Sep. 03, 2015	Humidity		57 %
Memo		CH 155	Atmospheric Pressure		1008 hpa



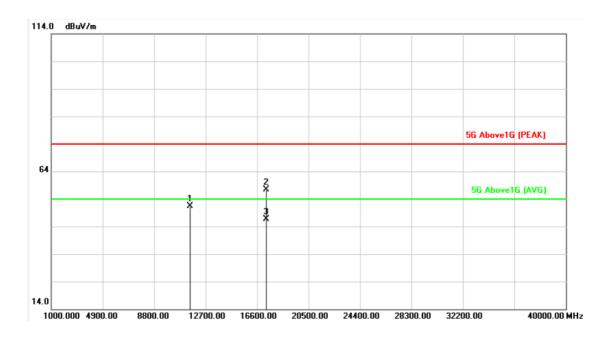
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11550.000	19.53	32.09	51.62	74.00	-22.38	peak	102	184	Р
2	17325.000	27.44	34.14	61.58	74.00	-12.42	peak	102	184	Р
3	17325.000	27.44	19.82	47.26	54.00	-6.74	AVG	102	184	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 33 of 148

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 155	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11550.000	19.53	31.79	51.32	74.00	-22.68	peak	102	184	Р
2	17325.000	27.44	29.83	57.27	74.00	-16.73	peak	102	184	Р
3	17325.000	27.44	19.19	46.63	54.00	-7.37	AVG	102	184	Р

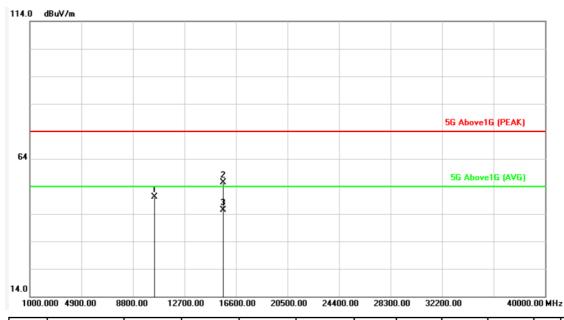
Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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6.6.2. Test Result and Data of Receiver

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode		Mode 6	Temperature	:	24 °C
Test Date		Sep. 03, 2015	Humidity	:	57 %
Memo		CH 42	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10420.000	17.73	32.41	50.14	74.00	-23.86	peak	101	183	Р
2	15630.000	20.81	34.46	55.27	74.00	-18.73	peak	101	183	Р
3	15630.000	20.81	24.53	45.34	54.00	-8.66	AVG	101	183	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 6	Temperature	:	24 °C
Test Date		Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 42	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10420.000	17.73	29.89	47.62	74.00	-26.38	peak	101	183	Р
2	15630.000	20.81	33.95	54.76	74.00	-19.24	peak	101	183	Р
3	15630.000	20.81	25.70	46.51	54.00	-7.49	AVG	101	183	Р

Note: Level = Reading + Factor Margin = Level - Limit

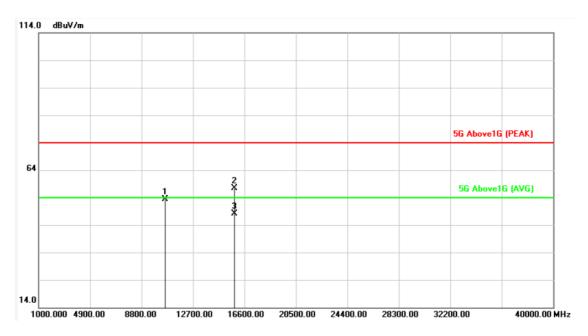
Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 36 of 148

Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 58	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10580.000	18.00	35.29	53.29	74.00	-20.71	peak	102	176	Р
2	15870.000	20.60	36.83	57.43	74.00	-16.57	peak	102	176	Р
3	15870.000	20.60	27.57	48.17	54.00	-5.83	AVG	102	176	Р

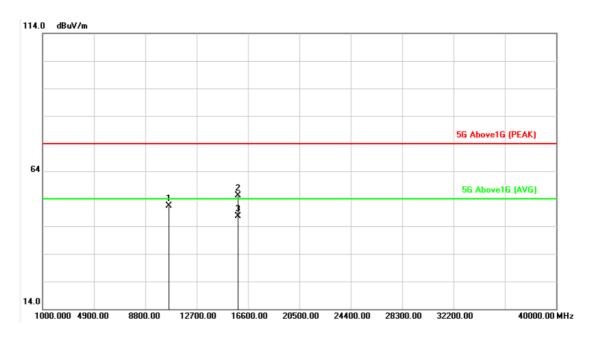
Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 37 of 148

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 58	Atmospheric Pressure	:	1008 hpa

Report No.: TEGE1508142



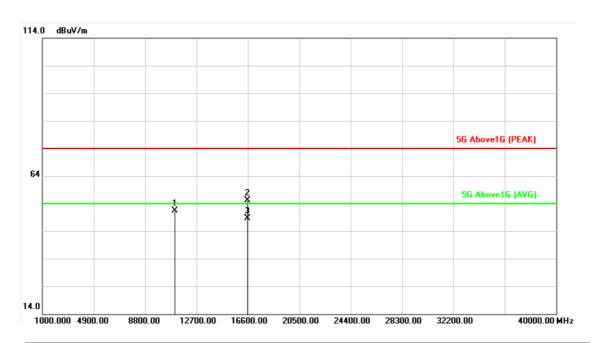
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	10580.000	18.00	33.29	51.29	74.00	-22.71	peak	102	176	Р
2	15870.000	20.60	34.55	55.15	74.00	-18.85	peak	102	176	Р
3	15870.000	20.60	26.92	47.52	54.00	-6.48	AVG	102	176	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 38 of 148

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 106	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11060.000	18.79	32.68	51.47	74.00	-22.53	peak	104	183	Р
2	16590.000	22.66	32.53	55.19	74.00	-18.81	peak	104	183	Р
3	16590.000	22.66	25.86	48.52	54.00	-5.48	AVG	104	183	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

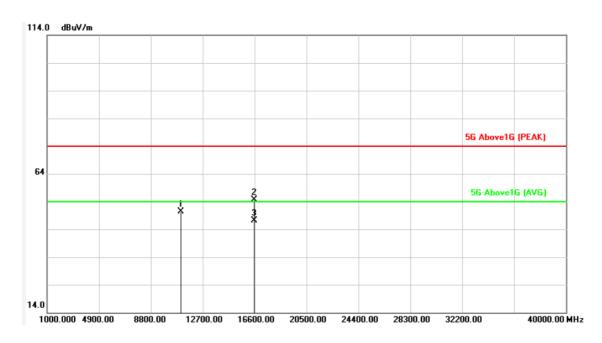
CERPASS TECHNOLOGY CORP. Page No. : 39 of 148

Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 6	Temperature		24 °C
Test Date		Sep. 03, 2015	Humidity		57 %
Memo		CH 106	Atmospheric Pressure		1008 hpa

Report No.: TEGE1508142



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11060.000	18.79	31.58	50.37	74.00	-23.63	peak	104	183	Р
2	16590.000	22.66	31.95	54.61	74.00	-19.39	peak	104	183	Р
3	16590.000	22.66	24.58	47.24	54.00	-6.76	AVG	104	183	Р

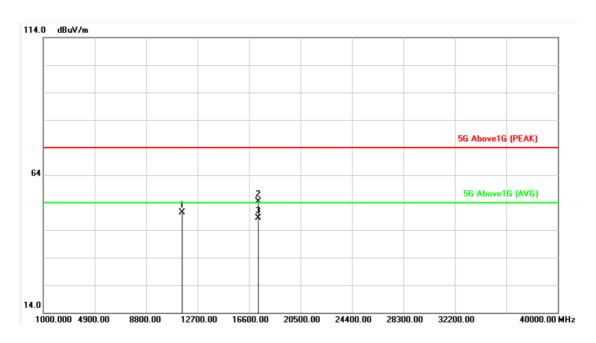
Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 40 of 148

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode		Mode 6	Temperature	:	24 °C
Test Date		Sep. 03, 2015	Humidity	:	57 %
Memo		CH 155	Atmospheric Pressure	:	1008 hpa

Report No.: TEGE1508142



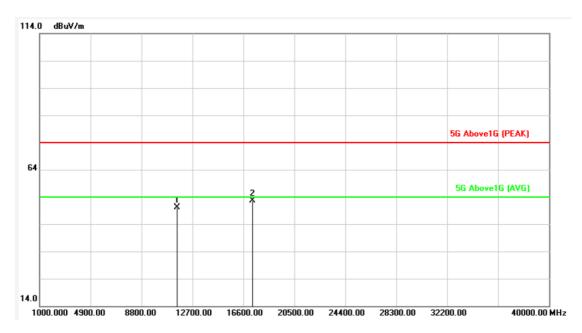
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11550.000	19.53	30.94	50.47	74.00	-23.53	peak	107	181	Р
2	17325.000	27.44	27.02	54.46	74.00	-19.54	peak	107	181	Р
3	17325.000	27.44	20.90	48.34	54.00	-5.66	AVG	107	181	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

CERPASS TECHNOLOGY CORP. Page No. : 41 of 148

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	24 °C
Test Date	:	Sep. 03, 2015	Humidity	:	57 %
Memo	:	CH 155	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	1	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth	P/F
1	11550.000	19.53	30.70	50.23	74.00	-23.77	peak	107	181	Р
2	17325.000	27.44	25.23	52.67	74.00	-21.33	peak	107	181	Р

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

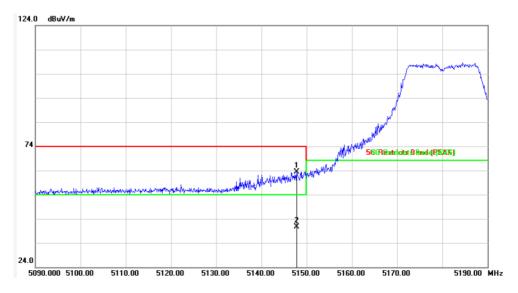
IC ID : 20532-22MFBG7260N

6.7. Restrict Band Emission and Band Edges Measurement Data

Antenna A

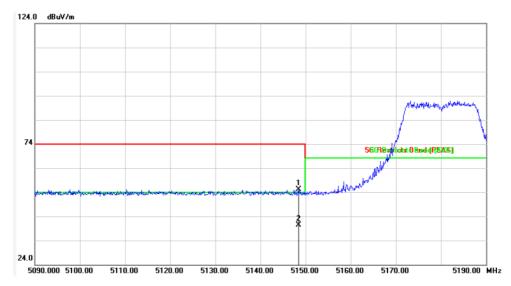
Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical

Channel: 36



Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal

Channel: 36



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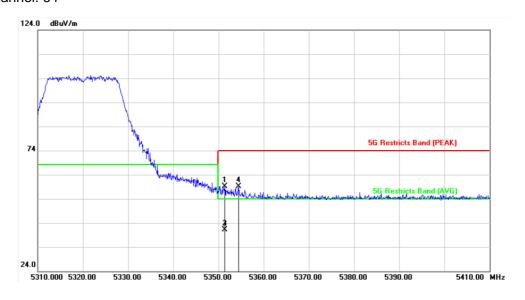
Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

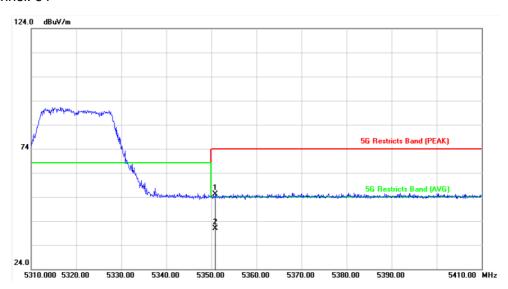
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Report No.: TEGE1508142

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical Channel: 64



Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 64

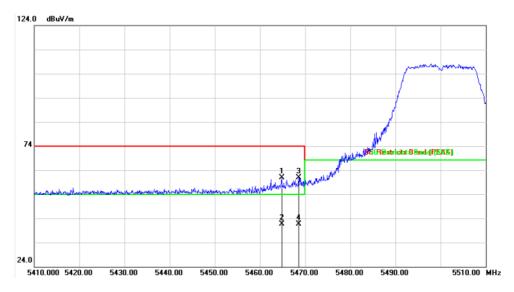


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ERPASS TECHNOLOGY CORP. Report No.: TEGE1508142

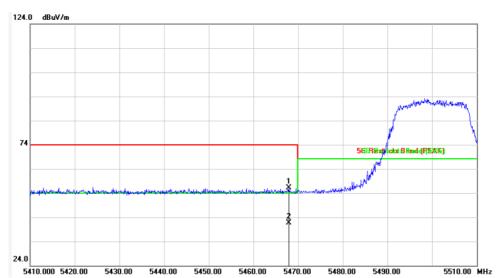
Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical

Channel: 100



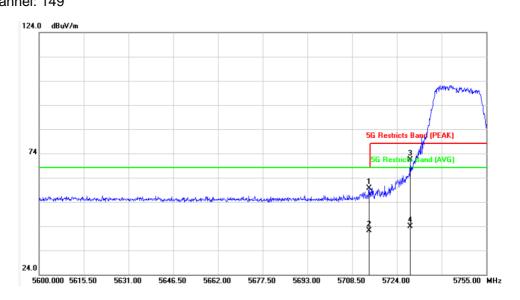
Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal

Channel: 100

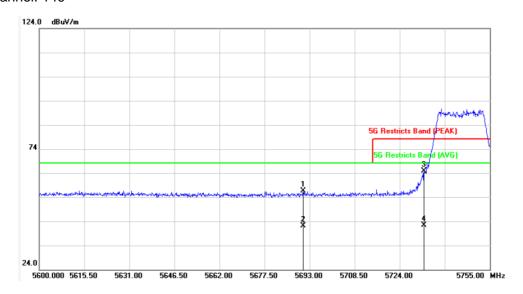


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Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical Channel: 149



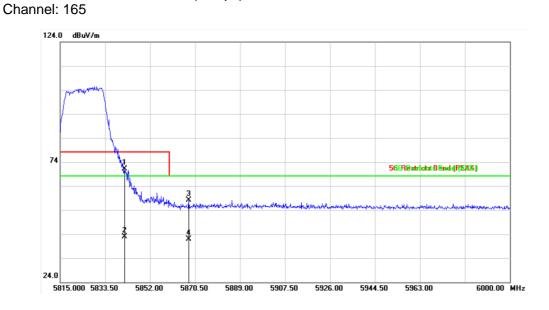
Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 149



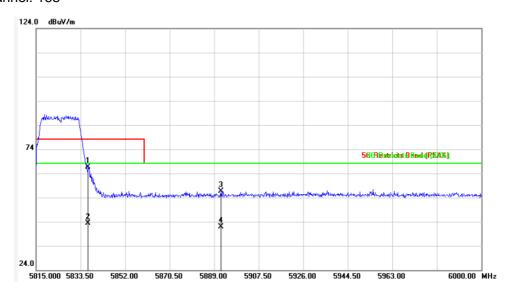
Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical



Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 165



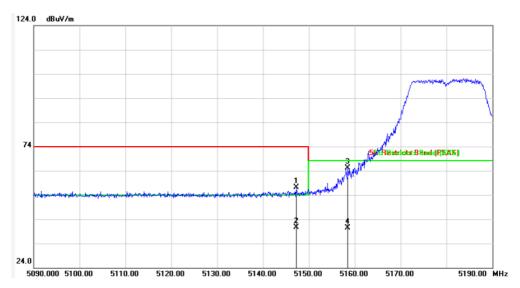
Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

IC ID : 20532-22MFBG7260N

Antenna B

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical

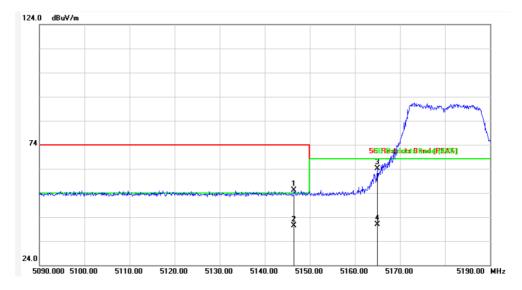
Channel: 36



Report No.: TEGE1508142

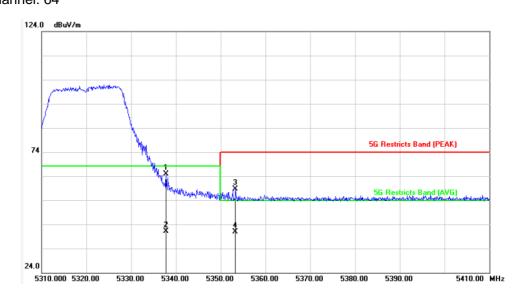
Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal

Channel: 36

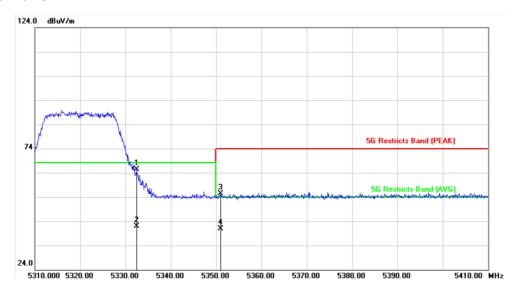


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Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical Channel: 64



Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 64

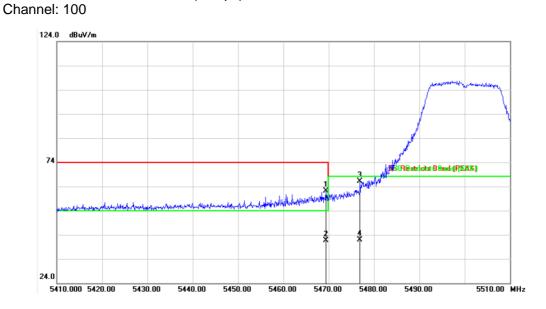


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Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

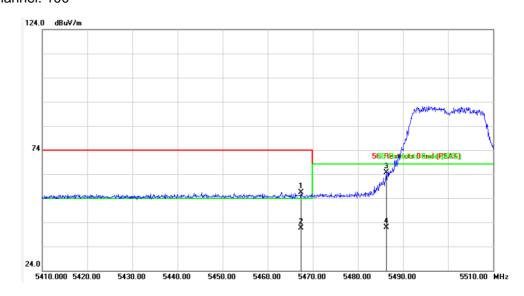
IC ID : 20532-22MFBG7260N

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical

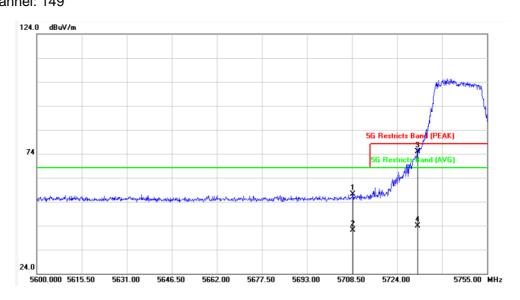


Report No.: TEGE1508142

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 100

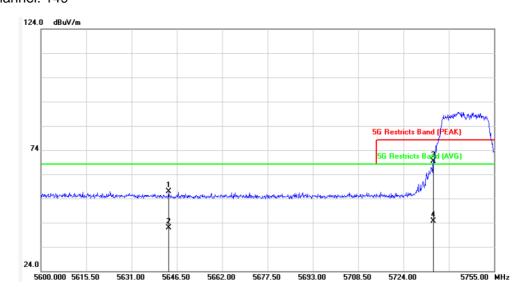


Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical Channel: 149

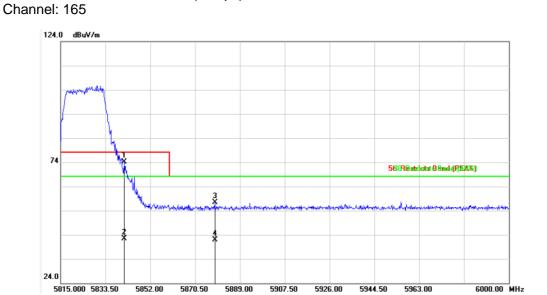


Report No.: TEGE1508142

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 149

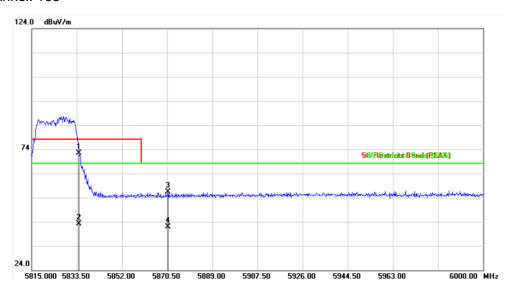


Modulation Standard: 802.11a (6Mbps), Pol/Phase: Vertical



Report No.: TEGE1508142

Modulation Standard: 802.11a (6Mbps), Pol/Phase: Horizontal Channel: 165



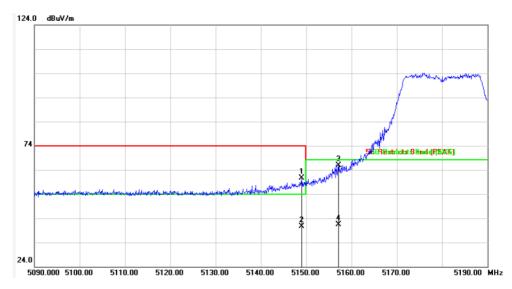
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CERPASS TECHNOLOGY CORP.

Antenna A+B

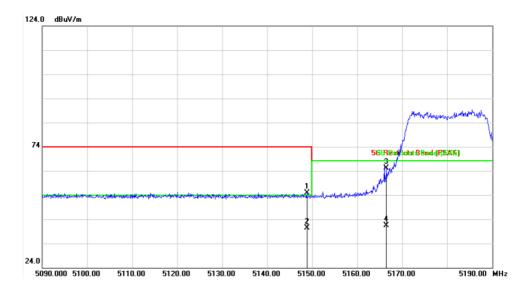
Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Vertical

Channel: 36



Report No.: TEGE1508142

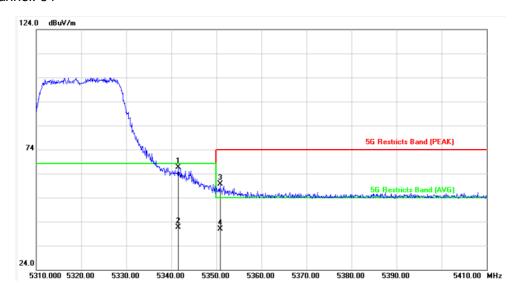
Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Horizontal Channel: 36



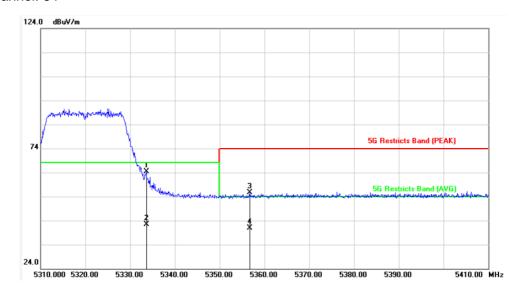
CERPASS TECHNOLOGY CORP. Page No. : 53 of 148

ERPASS TECHNOLOGY CORP. Report No.: TEGE1508142

Modulation Standard: 802.11an HT20 (13Mbps) Pol/Phase: Vertical Channel: 64

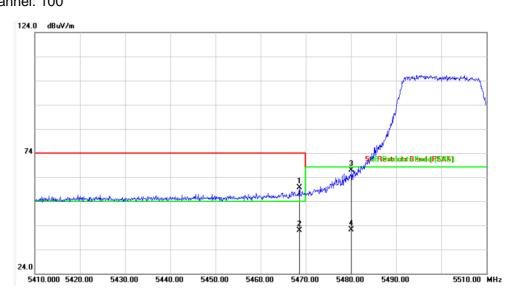


Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Horizontal Channel: 64



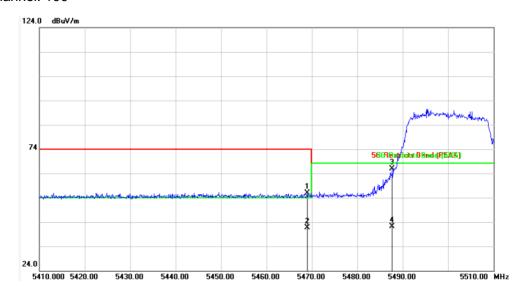
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Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Vertical Channel: 100



Report No.: TEGE1508142

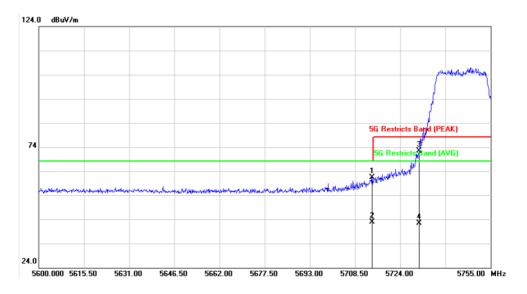
Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Horizontal Channel: 100



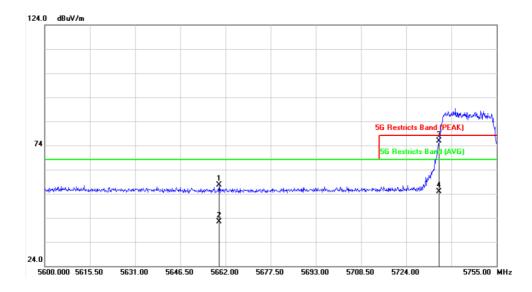
CERPASS TECHNOLOGY CORP. Page No. : 55 of 148

ERPASS TECHNOLOGY CORP. Report No.: TEGE1508142

Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Vertical Channel: 149



Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Horizontal Channel: 149

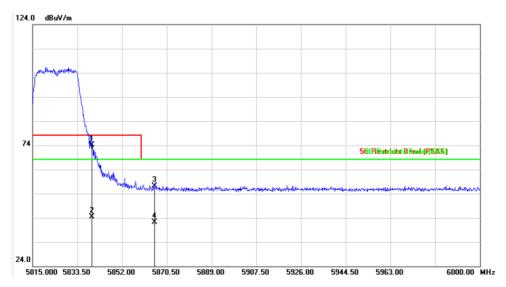


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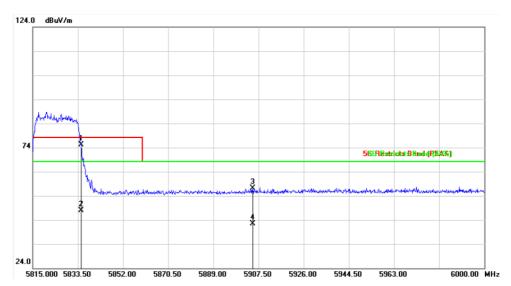
ERPASS TECHNOLOGY CORP. Report No.: TEGE1508142

Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Vertical

Channel: 165

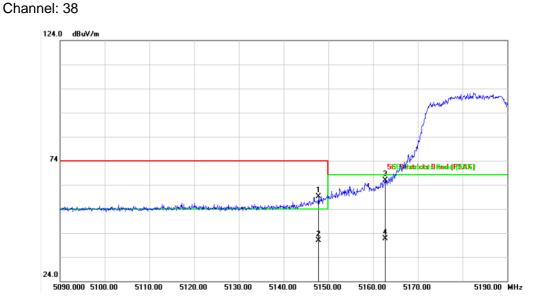


Modulation Standard: 802.11an HT20 (13Mbps), Pol/Phase: Horizontal Channel: 165



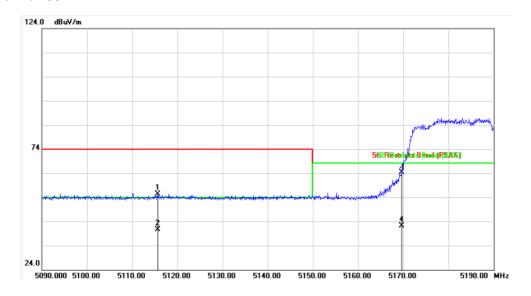
CERPASS TECHNOLOGY CORP. Page No. : 57 of 148

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Vertical



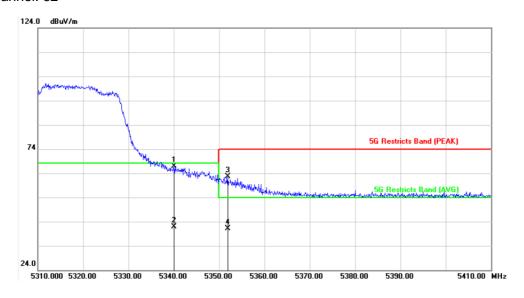
Report No.: TEGE1508142

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Horizontal Channel: 38

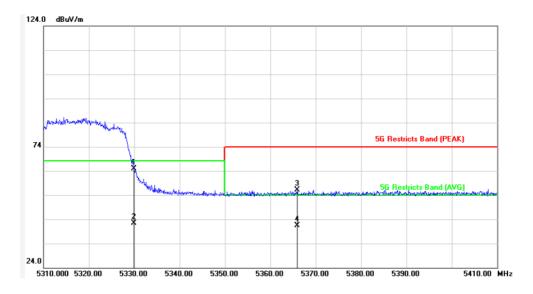




Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Vertical Channel: 62



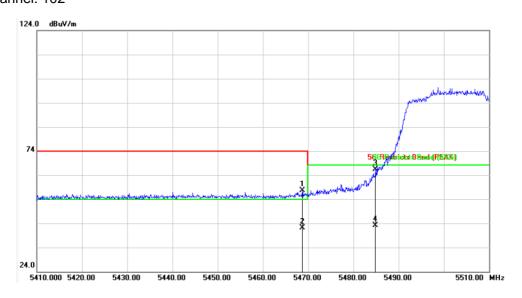
Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Horizontal Channel: 62



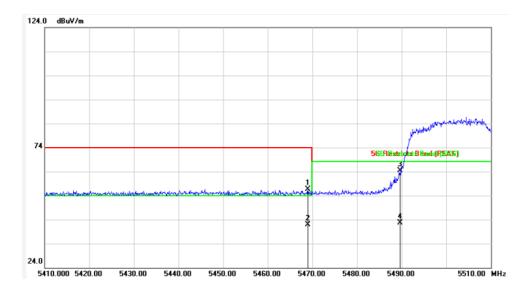
CERPASS TECHNOLOGY CORP. Page No. : 59 of 148

ERPASS TECHNOLOGY CORP. Report No.: TEGE1508142

Modulation Standard: 802.11an HT40 (27Mbps),, Pol/Phase: Vertical Channel: 102

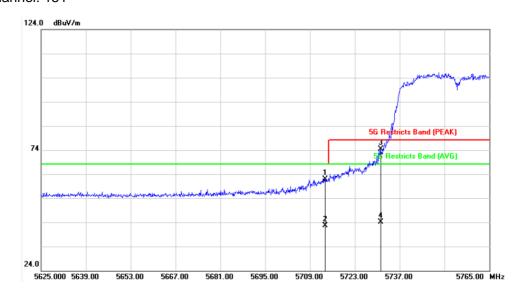


Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Horizontal Channel: 102



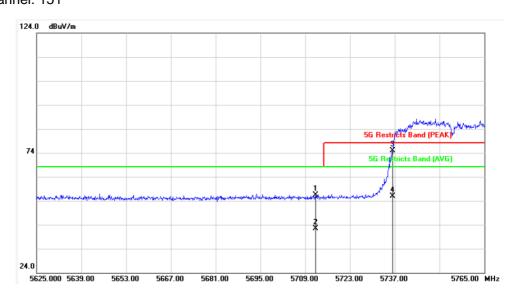
CERPASS TECHNOLOGY CORP. Page No. : 60 of 148

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Vertical Channel: 151



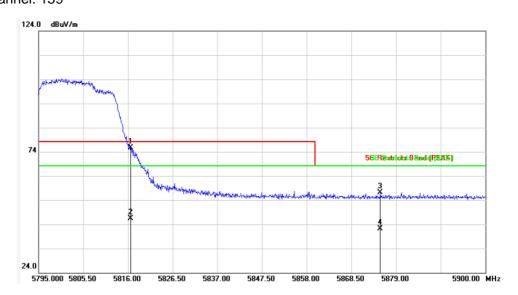
Report No.: TEGE1508142

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Horizontal Channel: 151



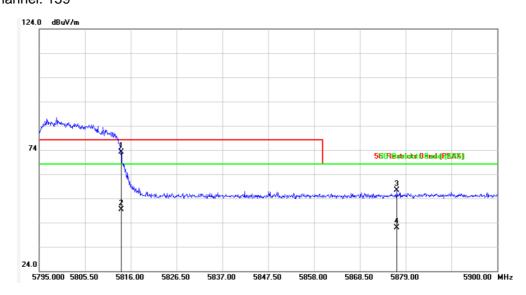
CERPASS TECHNOLOGY CORP. Page No. : 61 of 148

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Vertical Channel: 159



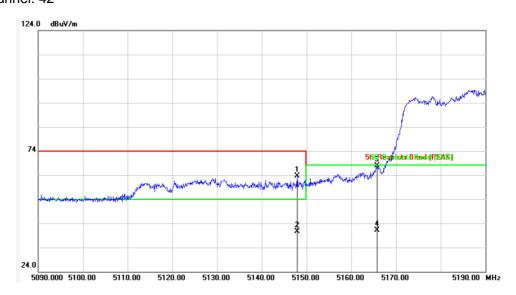
Report No.: TEGE1508142

Modulation Standard: 802.11an HT40 (27Mbps), Pol/Phase: Horizontal Channel: 159



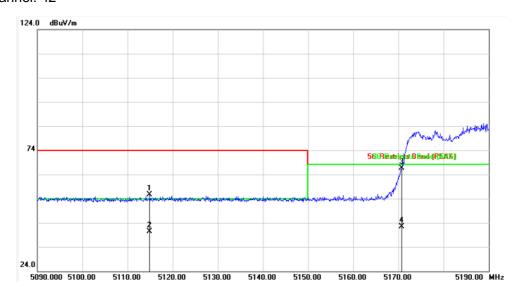
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Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Horizontal Channel: 42



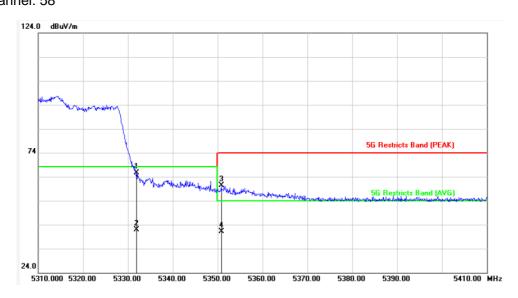
Report No.: TEGE1508142

Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Horizontal Channel: 42

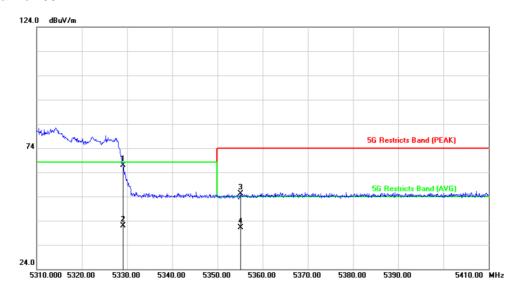


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Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Vertical Channel: 58



Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Horizontal Channel: 58

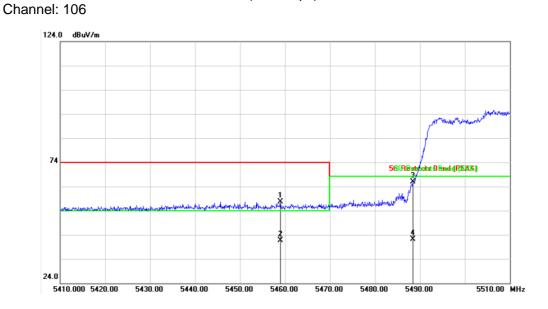


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Issued date: Sep. 09, 2015 FCC ID : YEW -22MFBG7260NGW

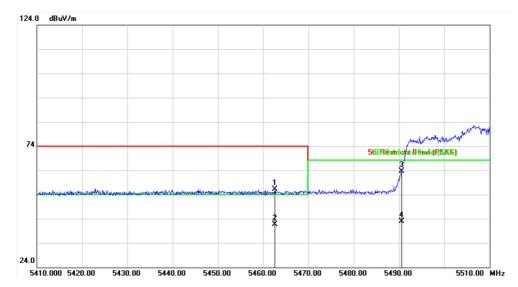
IC ID : 20532-22MFBG7260N

Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Vertical

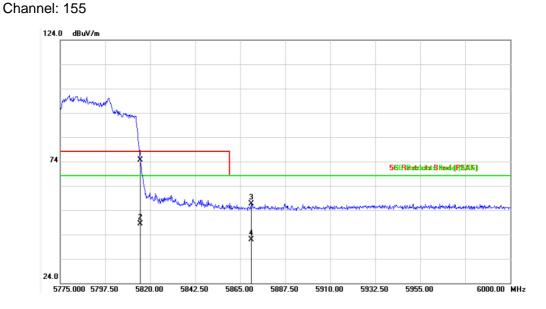


Report No.: TEGE1508142

Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Horizontal Channel: 106

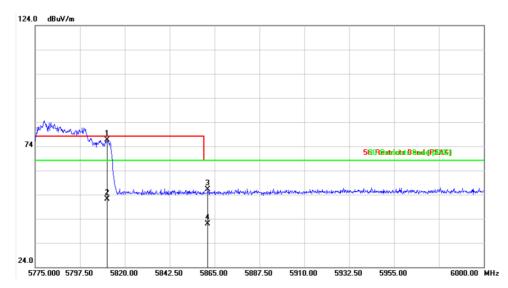


Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Vertical



Report No.: TEGE1508142

Modulation Standard: 802.11an VHT80 (58.5Mbps), Pol/Phase: Horizontal Channel: 155



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7. On Time, Duty Cycle and Measurement methods

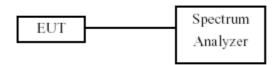
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

Test Date: Aug. 22, 2015 Temperature: 25° C Atmospheric pressure: 1056 hPa Humidity: 52°

Mode	On Time B (msec)	Period Time (msec)	Duty Cycle x (linear)	Duty Cycle(%)	1/T Minimum VBW (kHz)	Duty Cycle correction Factor (dB)
802.11a	2090	2100	0.9952	99.52%	1.00	0.02
802.11a HT20	1000	1016	0.9843	98.43%	1.02	0.07
802.11a HT40	506	524	0.9656	96.56%	1.04	0.15
802.11ac VHT20	1008	1024	0.9844	98.44%	1.02	0.07
802.11ac VHT40	508	524	0.9695	96.95%	1.03	0.13
802.11ac VHT80	264	285	0.9263	92.63%	1.08	0.33

Report No.: TEGE1508142

7.5. Measurement Methods

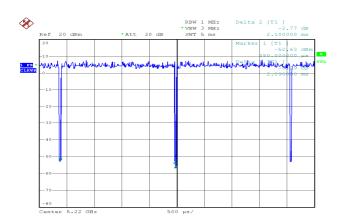
26 dB and 6dB Emission BW	KDB 789033 D02 v01, Section C
99% Occupied BW	KDB 789033 D02 v01, Section D
Conducted Output Power	KDB 789033 D02 v01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v01, Section F
Unwanted emissions in	KDB 789033 D02 v01, Sections G and H
restricted bands	
Unwanted emissions in	KDB 789033 D02 v01, Sections G and H
non-restricted bands	

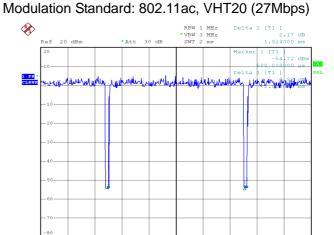
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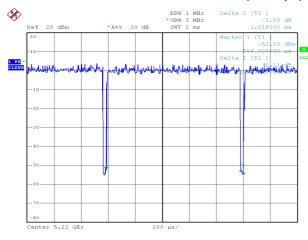
Report No.: TEGE1508142

Modulation Standard: 802.11a (6Mbps)

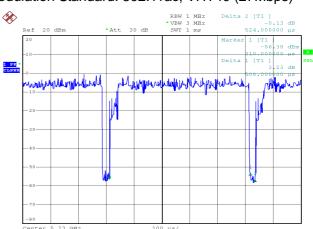




Modulation Standard: 802.11an HT20 (13Mbps)

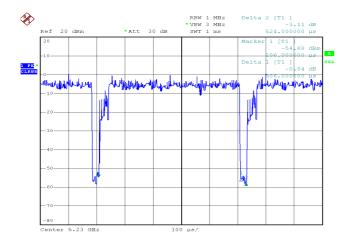


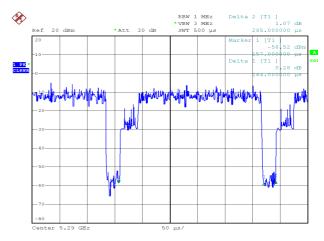
Modulation Standard: 802.11ac, VHT40 (27Mbps)



Modulation Standard: 802.11an, HT40 (27Mbps)

Modulation Standard: 802.11ac, VHT80 (58.5Mbps)





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