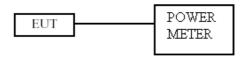
6. Peak Transmit Power

6.1. Test Procedure

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

6.2. Test Setup Layout



6.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
SERIES POWER METER	ANRITSU	ML2495A	1224005	2013/03/21	2014/03/20
POWER SENSOR	ANRITSU	MA2411B	1207295	2013/03/21	2014/03/20

Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No.

: 54 of 93

Issued date

FCC ID : ZTT-SR20000G-2

: Sep. 13, 2013

6.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature: 26° C Atmospheric pressure: 1019 hPa Humidity: 45° K

Modulation Standard: IEEE 802.11a (54Mbps)

Er	Fragues av	Peak Power Output			Peak Power	26dB Od	cupied
Channel	Frequency	(dBm)			Output (mW)	Bandwidt	h (MHz)
	(IVIHZ)	(MHz) ANT R ANT L ANT R+L		ANT R+L	ANT R	ANT L	
36	5180	7.57	7.56	10.58	11.42	22.3	22.3
44	5220	7.95	7.57	10.77	11.95	22.0	22.3
48	5240	8.06	7.64	10.87	12.20	22.1	22.0

Modulation Standard: IEEE 802.11an, HT20 (130Mbps)

i Channei i i i i	Frequency	Pea	k Power ((dBm)	Output	Peak Power Output (mW)	26dB Od Bandwidt	•
	(MHz)	ANT R	ANT L	ANT R+L	ANT R+L	ANT R	ANT L
36	5180	7.54	7.09	10.33	10.79	22.8	22.8
44	5220	7.88	6.75	10.36	10.87	22.7	22.7
48	5240	8.11	6.82	10.52	11.28	22.8	22.5

Modulation Standard: IEEE 802.11an, HT40 (270Mbps)

Frequency		Peak Power Output			Peak Power	26dB Oc	cupied
Channel	Frequency	(dBm)			Output (mW)	Bandwidt	h (MHz)
	(MHz)	ANT R	ANT L	ANT R+L	ANT R+L	ANT R	ANT L
38	5190	9.09	8.15	11.66	14.64	39.8	39.6
42	5210	8.85	7.99	11.45	13.97	39.8	39.8
46	5230	8.81	7.97	11.42	13.87	39.6	39.8

Limit:

Frequency Band	Limit
5.15 – 5.25 GHz	The lesser of 50mW(17dBm) or 4dBm + 10logB
B is the 26dB emission	n bandwidth in MHz.

 Cerpass Technology Corp.
 Issued date
 : Sep. 13, 2013

 Tel:886-2-2655-8100
 Fax:886-2-2655-8200
 Page No.
 : 55 of 93

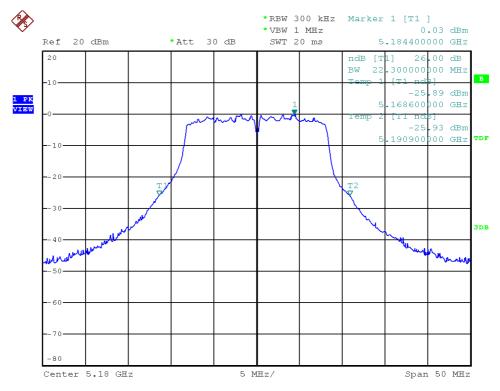
FCC ID : ZTT-SR20000G-2



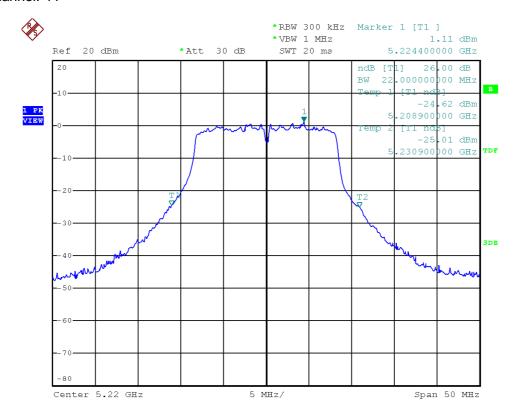
26dB Occupied Bandwidth

Modulation Standard: 802.11a (54Mbps), ANT R

Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

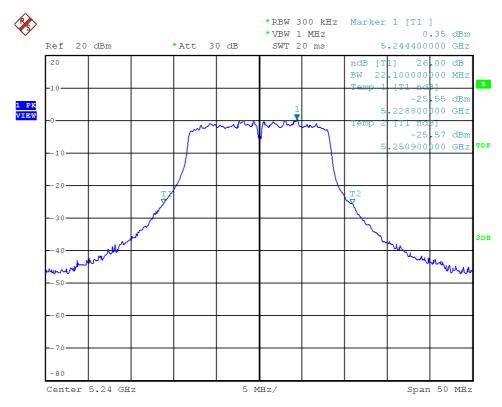
Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

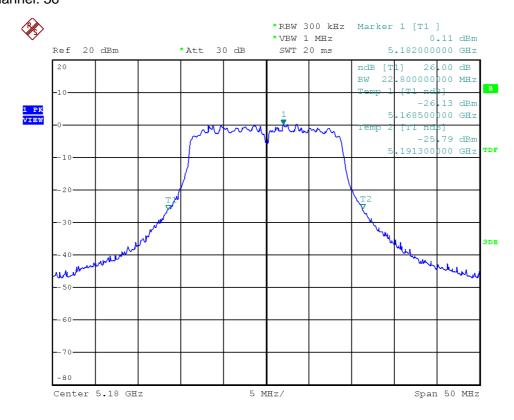
: 56 of 93



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 48



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

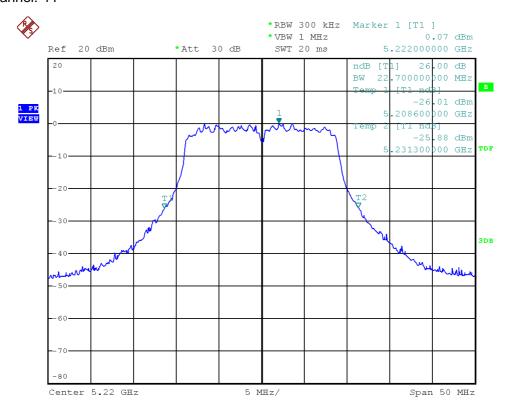
Page No.

FCC ID : ZTT-SR20000G-2

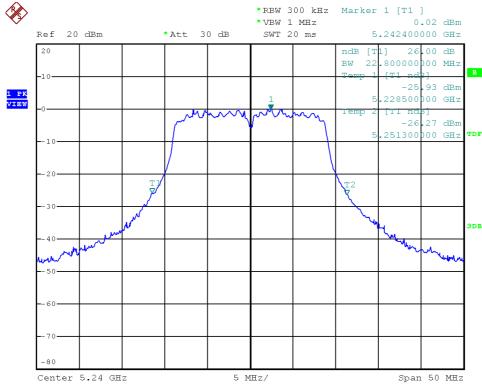
: 57 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 48



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

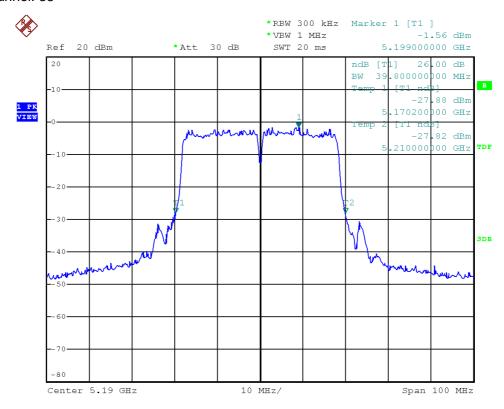
Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

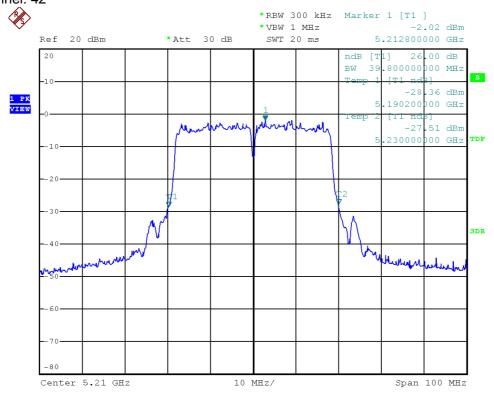
: 58 of 93



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 42



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

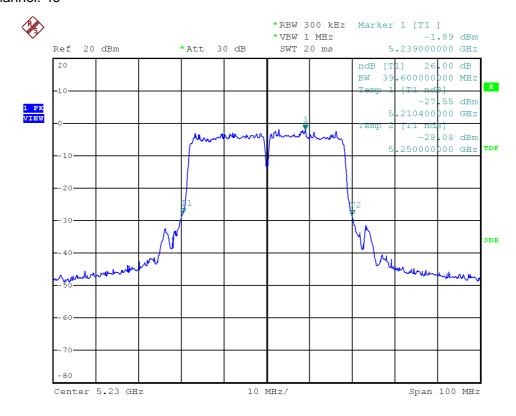
Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

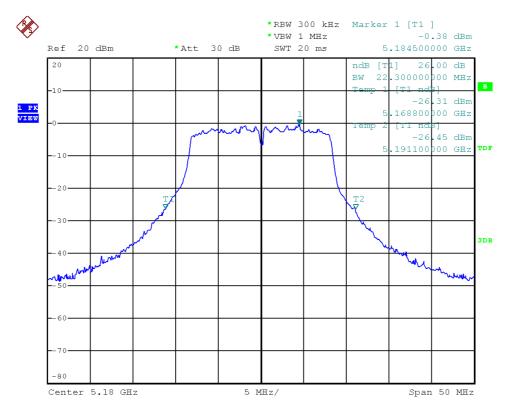
: 59 of 93



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

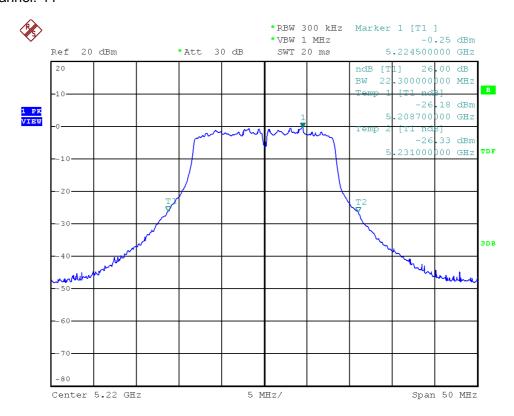
Page No.

Report No.: TEFE1308095

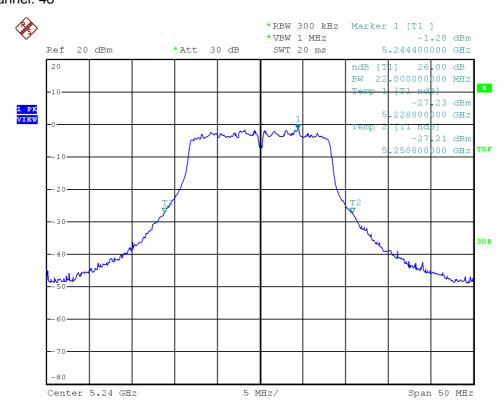
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

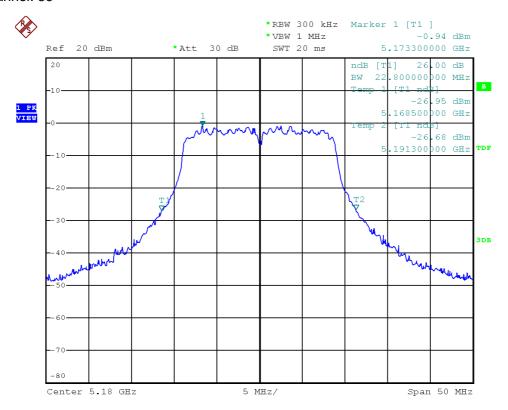
Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

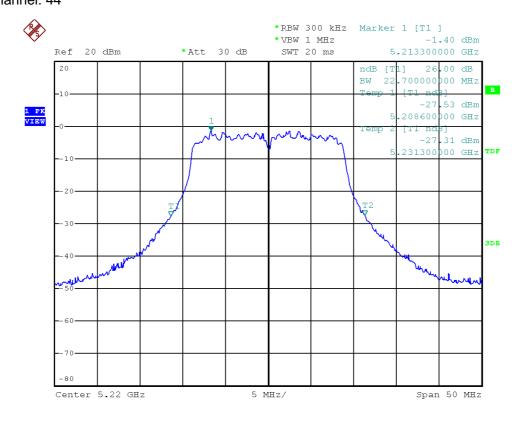
: 61 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

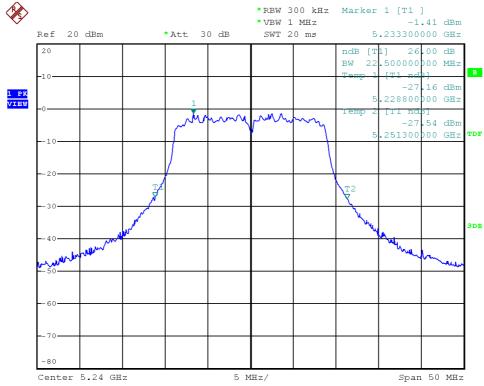
Page No.

FCC ID : ZTT-SR20000G-2

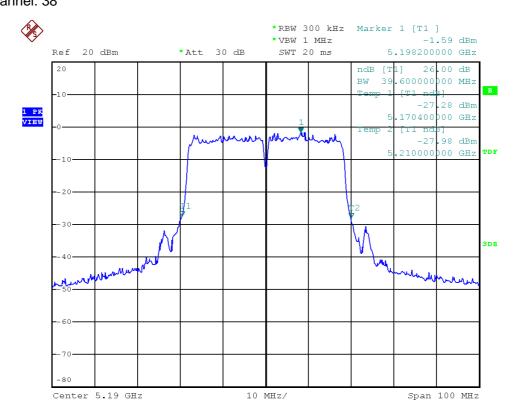
: 62 of 93

Report No.: TEFE1308095

Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 48



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 38



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No.

: 63 of 93

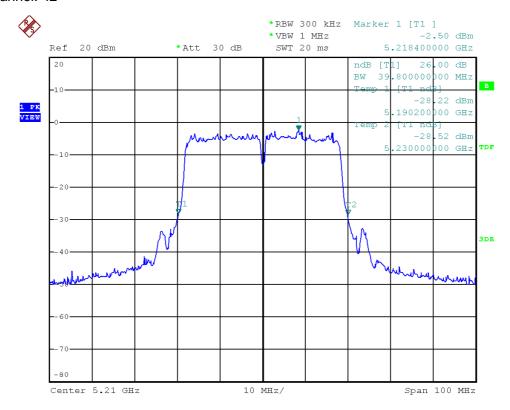
Issued date

FCC ID : ZTT-SR20000G-2

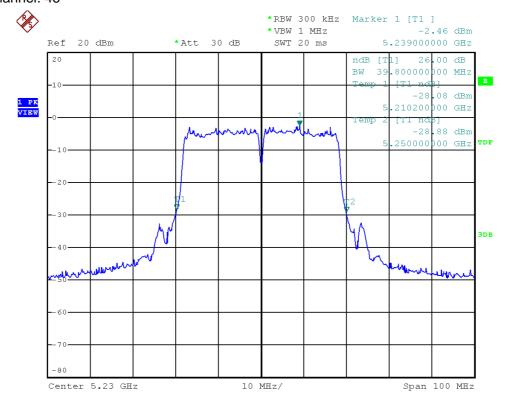
: Sep. 13, 2013



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 42



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 46



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

: 64 of 93

7. Peak Power Excursion

7.1. Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer
- 2. Using Peak detector and max-hold function for Trace 1.
- 3. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 1.
- 4. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 2, Set detector mode to RMS, trace average 100 traces in power averaging mode.
- 5. The largest difference between Trace 1 and Trace 2 in any 1 MHz band on any frequency was recorded.

7.2. Test Setup Layout



7.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

7.4. Test Result and Data

Temperature: 26°C Test Date: Aug. 28, 2013 Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	Peak Pow (dB	Limit (dB)	
Staridard		(IVII IZ)	ANT R	ANT L	
000 11 -	36	5180	8.72	8.58	13
802.11a (54Mbps)	44	5220	8.70	8.54	13
(O-HVIDPO)	48	5240	8.75	8.82	13
802.11an	36	5180	8.38	8.28	13
HT20	44	5220	8.20	8.21	13
(130Mbps)	48	5240	8.37	7.95	13
802.11an	38	5190	8.44	8.11	13
HT40	42	5210	8.00	8.45	13
(270Mbps)	46	5230	8.31	8.09	13

Cerpass Technology Corp.

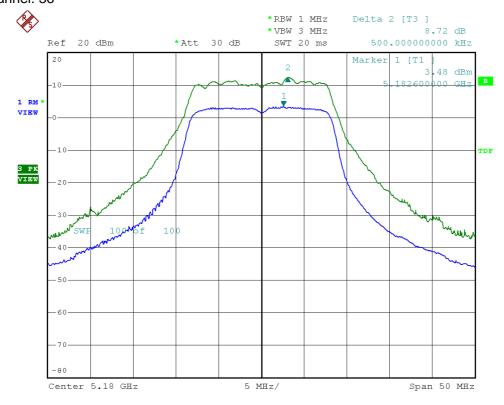
: Sep. 13, 2013 Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No. 65 of 93

Issued date

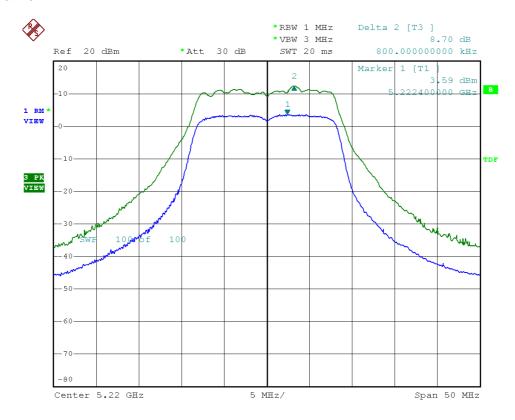
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

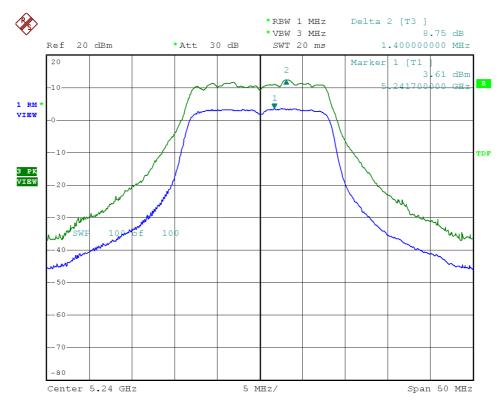
Page No.

Report No.: TEFE1308095

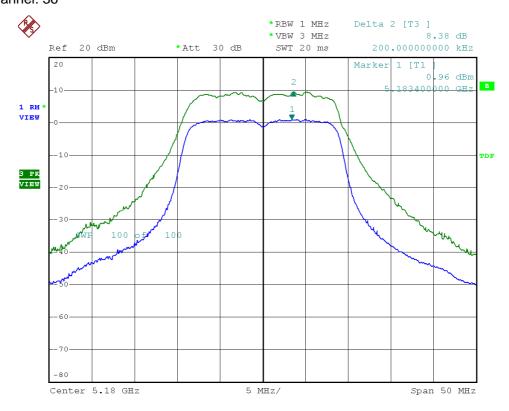
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 48



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

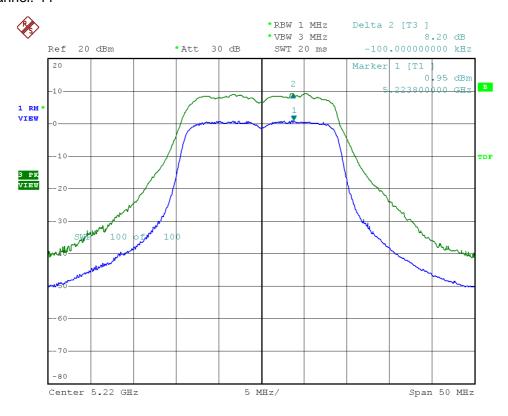
Page No.

FCC ID : ZTT-SR20000G-2

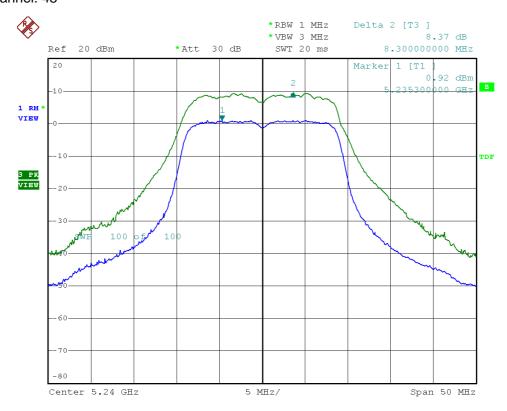
67 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps) , ANT R Channel: 48



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

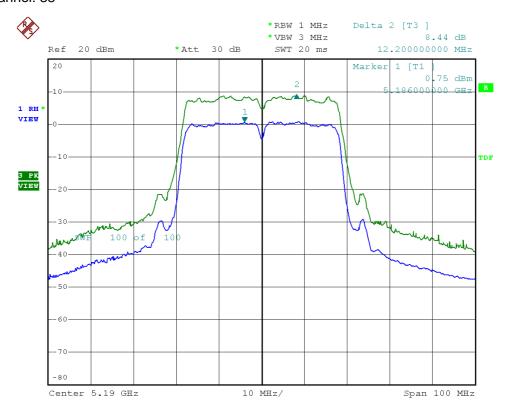
Page No.

Report No.: TEFE1308095

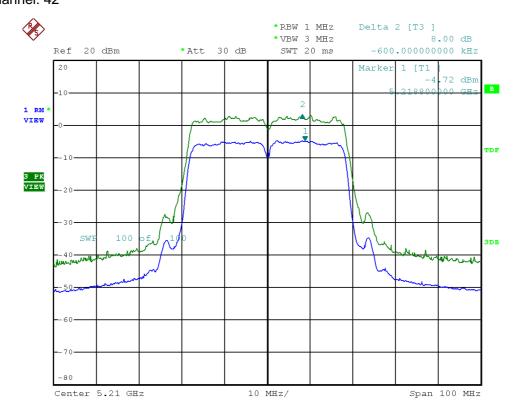
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an HT40 (130Mbps), ANT R Channel: 42



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

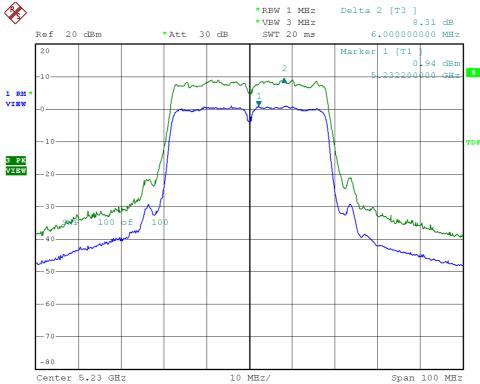
Page No.

Report No.: TEFE1308095

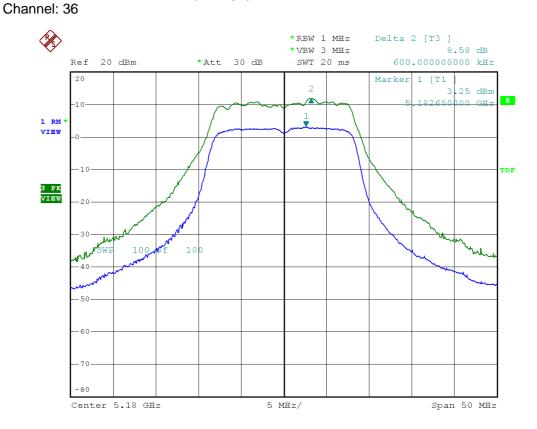
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an HT40 (130Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

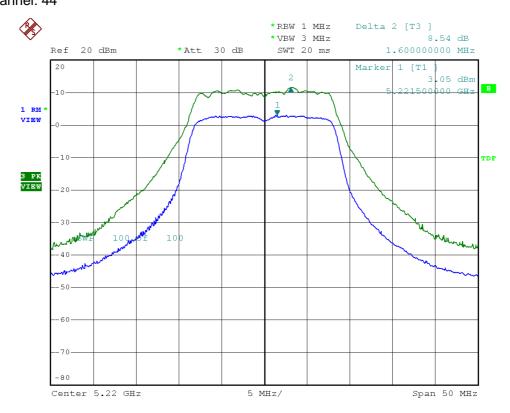
Page No.

Report No.: TEFE1308095

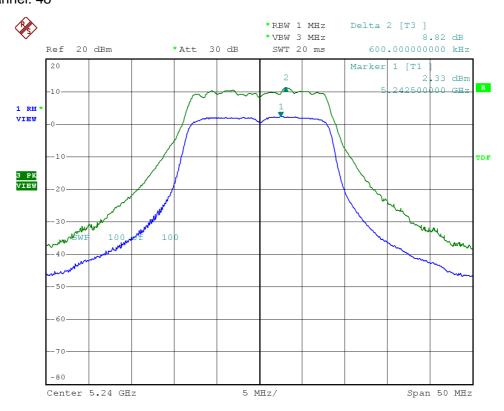
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

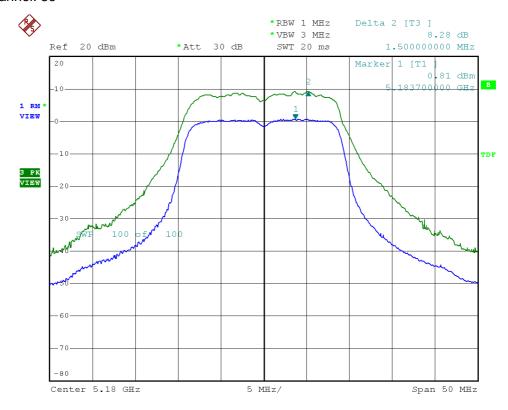
Page No.

Report No.: TEFE1308095

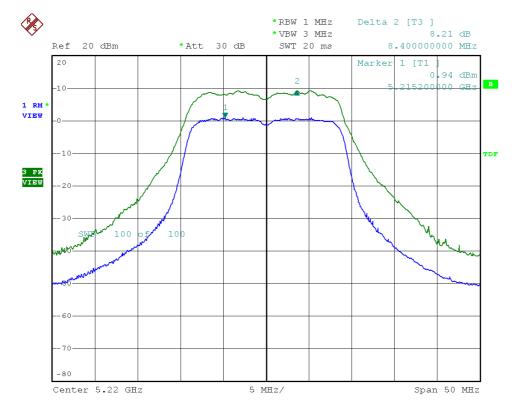
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

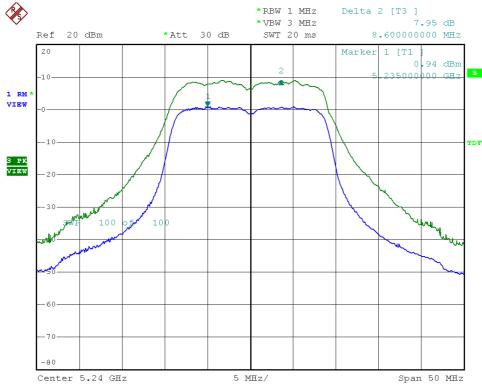
Page No.

Report No.: TEFE1308095

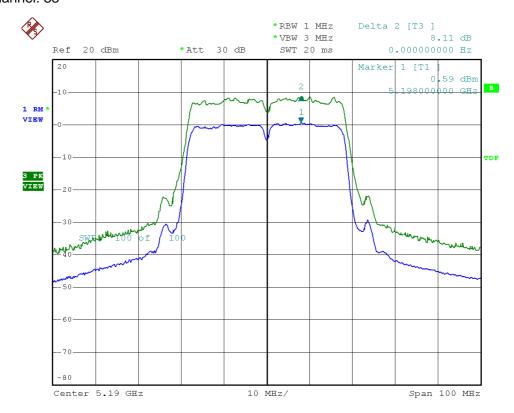
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an, HT20 (130Mbps) , ANT L Channel: 48 $\,$



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 38



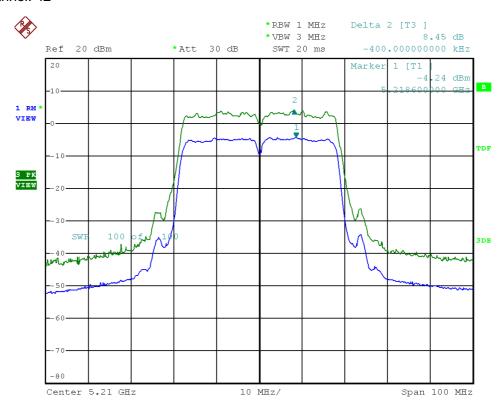
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013 Page No. : 73 of 93

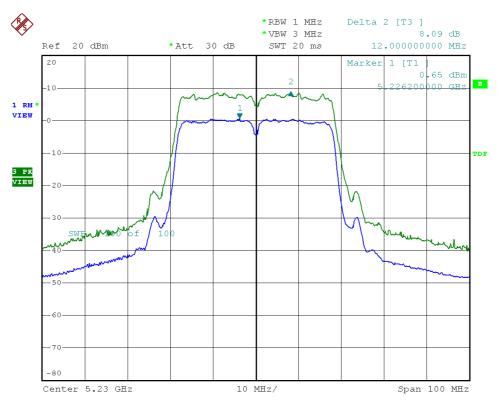
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an HT40 (130Mbps), ANT L Channel: 42



Modulation Standard: 802.11an HT40 (130Mbps), ANT L Channel: 46



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

Report No.: TEFE1308095

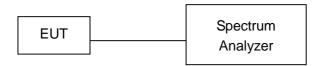
FCC ID : ZTT-SR20000G-2

8. Peak Power Spectral Density

8.1. Test Procedure

- 1. The transmitter output was connected to spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz, Set detector mode to RMS, trace average 100 traces in power averaging mode.
- 3. The Peak Power Spectral Density is the highest level found across the emission in any 1MHz Band

8.2. Test Setup Layout



8.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No.

75 of 93

Issued date

FCC ID ZTT-SR20000G-2

: Sep. 13, 2013

8.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature: 26° C Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation Standard	Channel	Frequency		Power Lev //Hz BW (d		Limit (dB)
		(MHz)	ANT R	ANT L	ANT R+L	(4-7
000.44	36	5180	-2.34	-2.65	0.52	2.99
802.11a (54Mbps)	44	5220	-2.19	-2.42	0.71	2.99
(o mopo)	48	5240	-2.14	-2.21	0.84	2.99

Modulation Standard	Channel	Frequency (MHz)		Power Lev 1Hz BW (d		Limit (dB)
			ANT R	ANT L	ANT R+L	
802.11an	36	5180	-2.56	-2.13	-0.67	2.99
HT20	44	5220	-2.39	-2.15	0.74	2.99
(130Mbps)	48	5240	-2.15	-2.43	0.72	2.99
802.11an	38	5190	-4.55	-4.85	-1.69	2.99
HT40	42	5210	-4.45	-4.32	-1.37	2.99
(270Mbps)	46	5230	-4.32	-4.30	-1.30	2.99

Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No. : 76 of 93

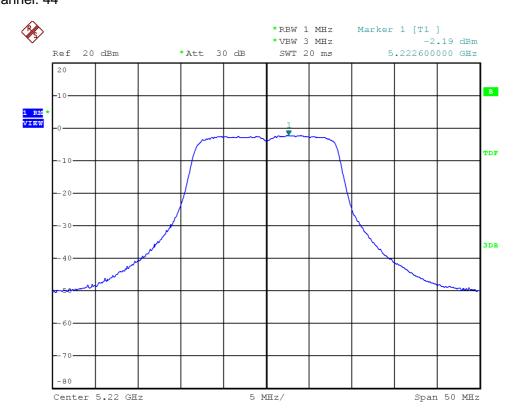
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

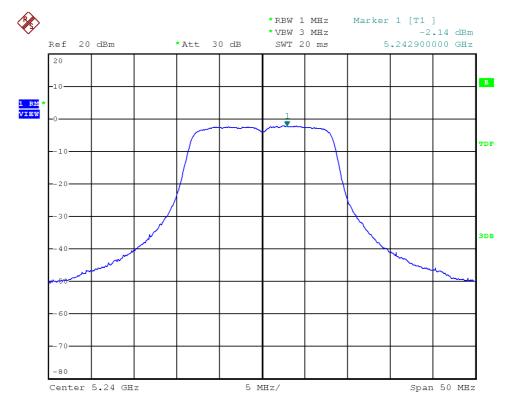
Page No.

FCC ID : ZTT-SR20000G-2

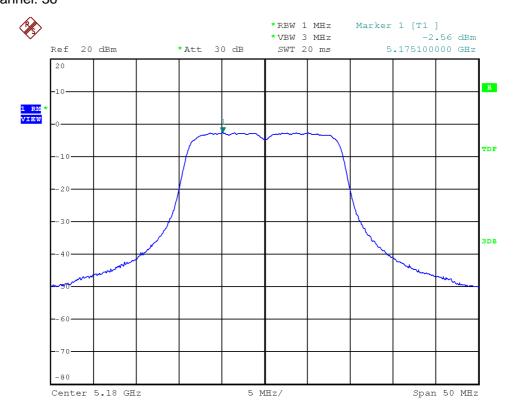
77 of 93



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 48



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

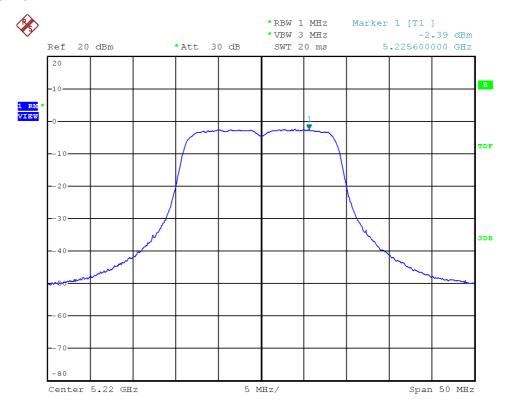
Page No.

FCC ID : ZTT-SR20000G-2

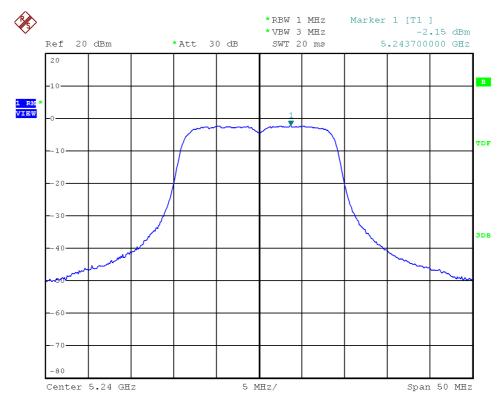
78 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 48



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

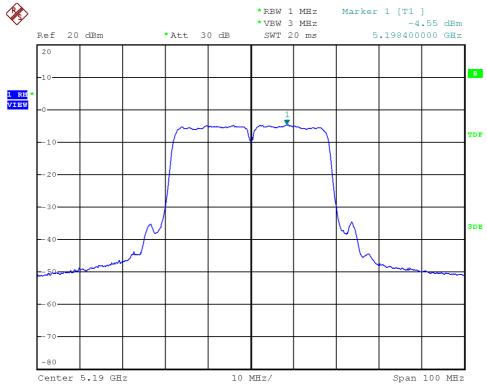
Page No.

FCC ID : ZTT-SR20000G-2

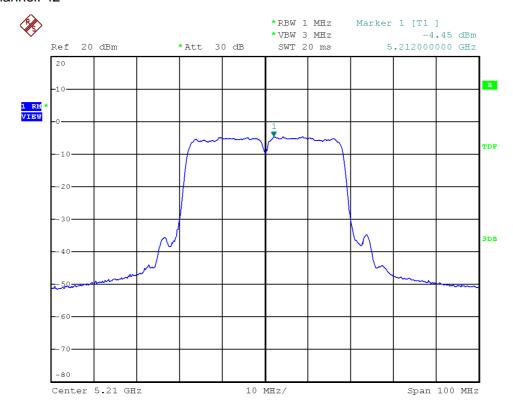
79 of 93



Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 42



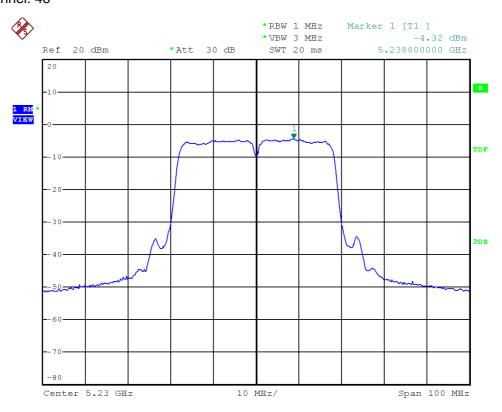
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013
Page No. : 80 of 93

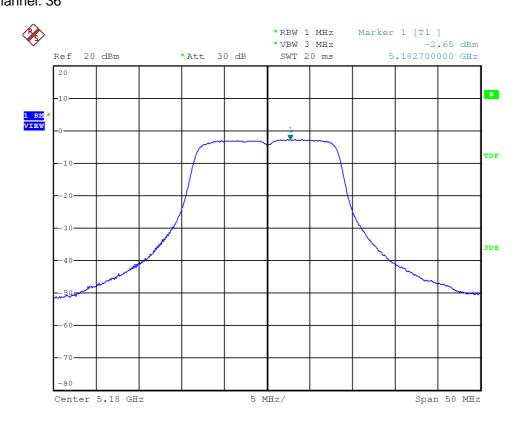
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

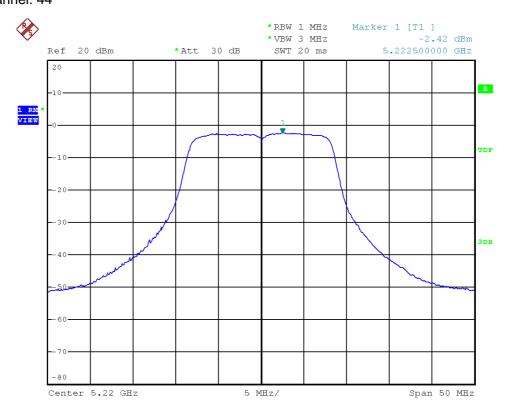
Page No.

FCC ID : ZTT-SR20000G-2

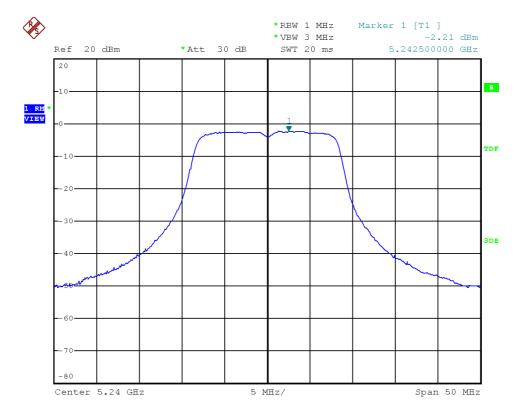
: 81 of 93



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

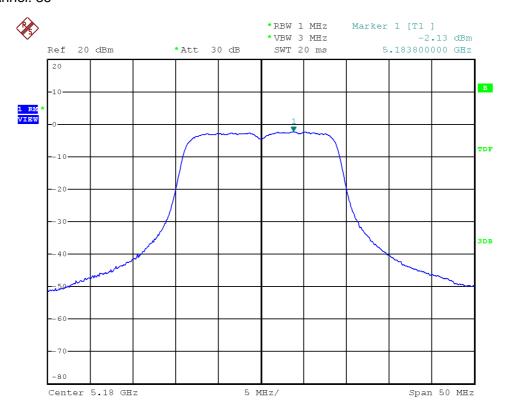
Page No.

FCC ID : ZTT-SR20000G-2

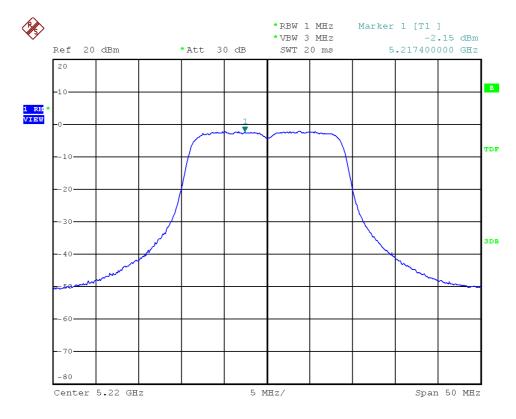
: 82 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

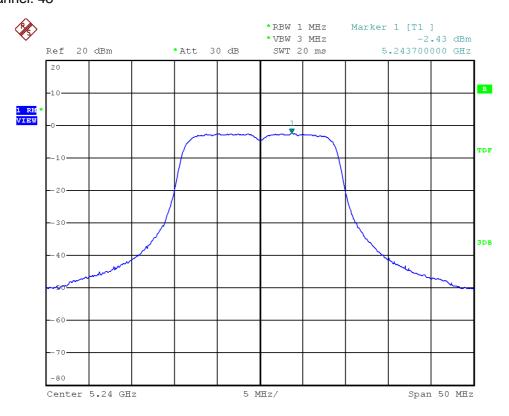
Page No.

FCC ID : ZTT-SR20000G-2

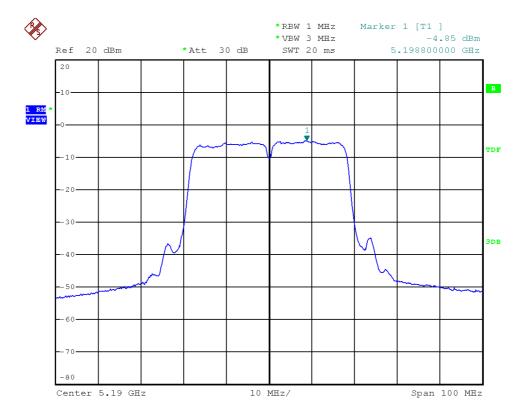
: 83 of 93



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 48



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 38



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

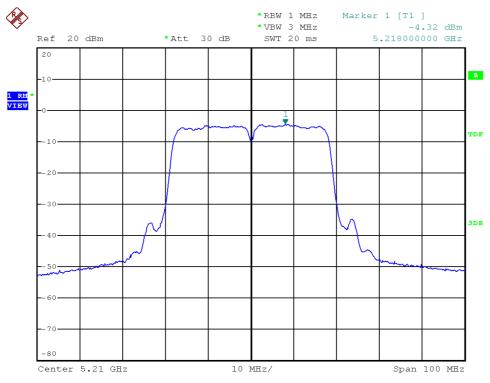
Issued date : Sep. 13, 2013

Page No. : 84 of 93

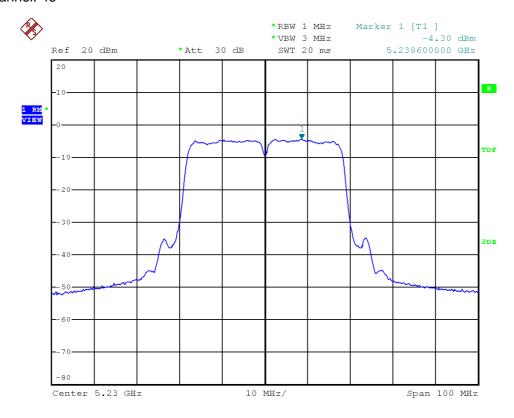
FCC ID : ZTT-SR20000G-2



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 42



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 46



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

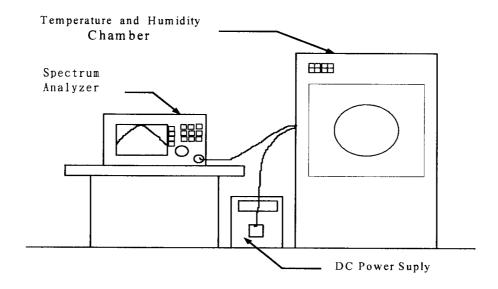
: 85 of 93

9. Frequency Stability

9.1. Test Procedure

- 1. The EUT was placed inside the Temperature and Humidity chamber.
- 2. The transmitter output was connected to spectrum analyzer.
- 3. Turn the EUT on and couple its output to a spectrum analyzer.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- 6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

9.2. Test Setup Layout



9.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
TEMPERATURE CHAMBER	T MACHINE	TMJ-9712	T-12-040111	2012/09/21	2013/09/20
DC Power Supply	GPD-3030	GM	7020936	N/A	N/A
AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A	N/A

Cerpass Technology Corp.

Issued date : Sep. 13, 2013 Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No. 86 of 93

> FCC ID ZTT-SR20000G-2



9.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature: 26°C Humidity: 45% Atmospheric pressure: 1019 hPa

Operating frequency: 5230 MHz								
Temp	Power	2 mii	nute	5 mi	nute	10 minute		
(°C)	supply (V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)	
	102	5229.9824	-0.000337	5229.9808	-0.000367	5229.9802	-0.000379	
50	120	5229.9888	-0.000214	5229.9850	-0.000287	5229.9826	-0.000333	
	138	5229.9892	-0.000207	5229.9902	-0.000187	5229.9882	-0.000226	
	102	5229.9886	-0.000218	5229.9878	-0.000233	5229.9884	-0.000222	
40	120	5229.9882	-0.000226	5229.9886	-0.000218	5229.9884	-0.000222	
	138	5229.9898	-0.000195	5229.9884	-0.000222	5229.9888	-0.000214	
	102	5229.9484	-0.000987	5229.9482	-0.000990	5229.9484	-0.000987	
30	120	5229.9490	-0.000975	5229.9495	-0.000966	5229.9484	-0.000987	
	138	5229.9484	-0.000987	5229.9488	-0.000979	5229.9494	-0.000967	
	102	5229.9384	-0.001178	5229.9392	-0.001163	5229.9388	-0.001170	
20	120	5229.9392	-0.001163	5229.9386	-0.001174	5229.9394	-0.001159	
	138	5229.9388	-0.001170	5229.9388	-0.001170	5229.9396	-0.001155	
	102	5229.9502	-0.000952	5229.9492	-0.000971	5229.9502	-0.000952	
10	120	5229.9500	-0.000956	5229.9496	-0.000964	5229.9490	-0.000975	
	138	5229.9498	-0.000960	5229.9490	-0.000975	5229.9494	-0.000967	
	102	5229.9776	-0.000428	5229.9760	-0.000459	5229.9734	-0.000509	
0	120	5229.9706	-0.000562	5229.9706	-0.000562	5229.9690	-0.000593	
	138	5229.9674	-0.000623	5229.9672	-0.000627	5229.9664	-0.000642	
	102	5229.9778	-0.000424	5229.9774	-0.000432	5229.9776	-0.000428	
-10	120	5229.9780	-0.000421	5229.9780	-0.000421	5229.9774	-0.000432	
	138	5229.9790	-0.000402	5229.9792	-0.000398	5229.9806	-0.000371	
	102	5229.9828	-0.000329	5229.9820	-0.000344	5229.9822	-0.000340	
-20	120	5229.9826	-0.000333	5229.9812	-0.000359	5229.9808	-0.000367	
	138	5229.9838	-0.000310	5229.9240	-0.001453	5229.9838	-0.000310	
	102	5229.9848	-0.000291	5229.9890	-0.000210	5229.9852	-0.000283	
-30	120	5229.9844	-0.000298	5229.9844	-0.000298	5229.9842	-0.000302	
	138	5229.9826	-0.000333	5229.9842	-0.000302	5229.9846	-0.000294	

Limit: ±20ppm

Cerpass Technology Corp.

Issued date : Sep. 13, 2013 Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No. : 87 of 93

FCC ID : ZTT-SR20000G-2

10. Band Edges Measurement

10.1. Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz with convenient frequency span including 100 MHz bandwidth from band edge.
- 3. The band edges was measured and recorded.

10.2. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

10.3. Test Result and Data

Test Date: Aug. 28, 2013 Temperature: 26°C Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	maximum frequenc		maximum value (dBm)		
Startuaru		(1711 12)	ANT R	ANT L	ANT R	ANT L	
802.11a (54Mbps)	36	5180	5149.80	5150.00	-35.26	-37.07	
802.11an HT20 (130Mbps)	36	5180	5149.20	5150.00	-33.43	-38.46	
802.11an HT40 (270Mbps)	38	5190	5150.00	5149.20	-28.01	-35.49	

Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200 : 88 of 93 Page No.

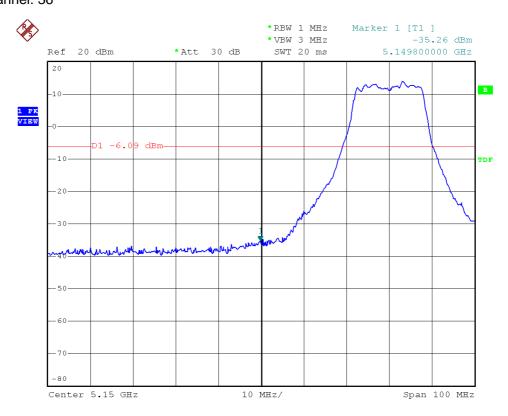
Issued date

FCC ID : ZTT-SR20000G-2

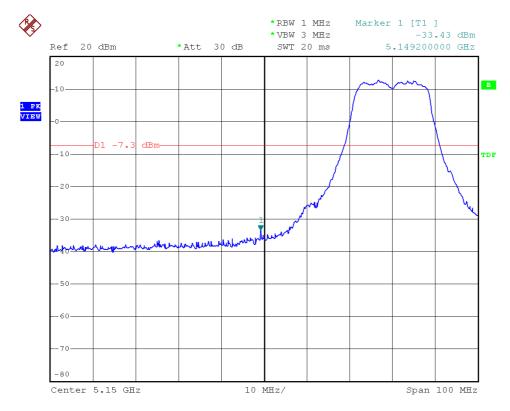
: Sep. 13, 2013



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

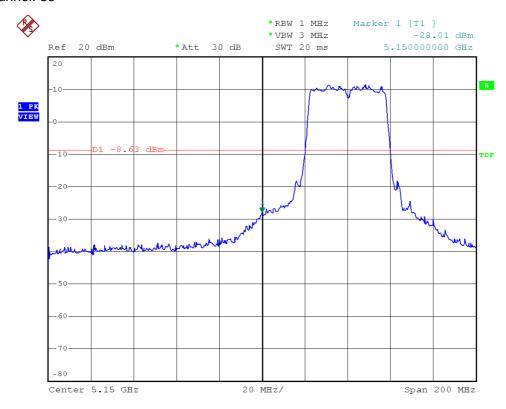
Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

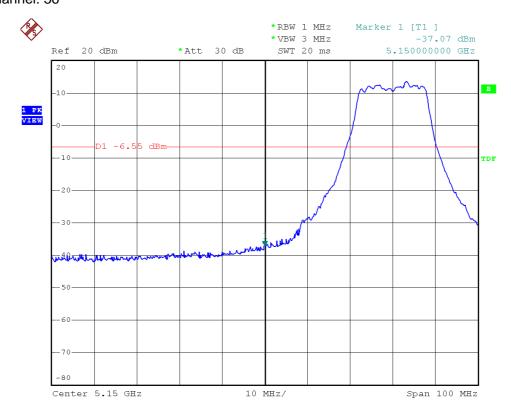
: 89 of 93



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

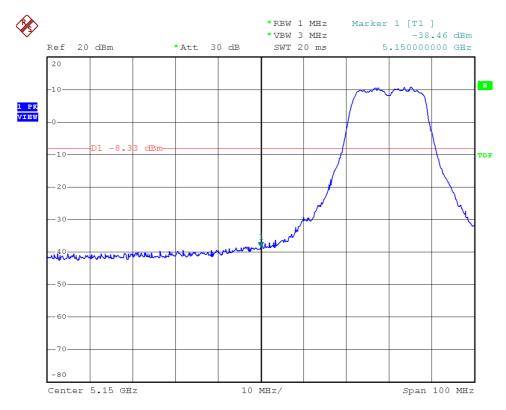
Page No.

FCC ID : ZTT-SR20000G-2

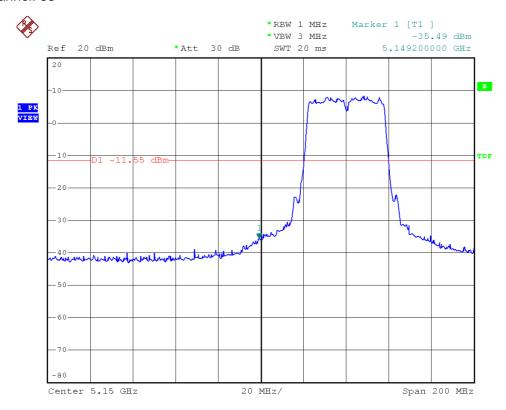
90 of 93



Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 38



Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No.

Report No.: TEFE1308095

FCC ID : ZTT-SR20000G-2

: 91 of 93

10.4. Restrict Band Emission Measurement Data

Test Date: Aug. 29, 2013 Temperature: 26°C Atmospheric pressure: 1016 hPa Humidity: 48%

Modulation Standard: IEEE 802.11a (54Mbps)

Channel 36	Channel 36 Fundamental Frequency: 5180 MHz									
Frequency	Ant-Pol	Meter	Corrected	Result		Limit (d	BuV/m)	Margin	Table	Ant High
(MHz) H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)	
5114.80	Н	49.21	7.32	56.53	Peak	74	54	-17.47	214	1.00
5149.75	Н	36.98	7.59	44.57	Ave	74	54	-9.43	214	1.00
5101.20	V	49.45	7.93	57.38	Peak	74	54	-16.62	162	1.00
5149.75	V	37.13	7.36	44.49	Ave	74	54	-9.51	162	1.00

Modulation Standard: IEEE 802.11an, HT20 (130Mbps)

Channel 36	Channel 36 Fundamental Frequency: 5180 MHz									
Frequency Ant-Pol (MHz) H/V	Meter		Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin	Table	Ant High	
	Reading (dBuV)				Peak	Ave	(dB)	Deg.	(m)	
5119.50	Н	48.98	7.36	56.34	Peak	74	54	-17.66	213	1.00
5149.50	Н	36.96	7.59	44.55	Ave	74	54	-9.45	213	1.00
5111.80	V	49.29	7.82	57.11	Peak	74	54	-16.89	155	1.00
5149.75	>	37.19	7.36	44.55	Ave	74	54	-9.45	155	1.00

Modulation Standard: IEEE 802.11an, HT40 (270Mbps)

Channel 38	Channel 38 Fundamental Frequency: 5190 MHz									
Frequency Ant-Pol (MHz) H/V	Meter	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin	Table	Ant High	
	Reading (dBuV)				Peak	Ave	(dB)	Deg.	(m)	
5115.50	Н	48.84	7.32	56.16	Peak	74	54	-17.84	212	1.00
5148.50	Н	37.02	7.59	44.61	Ave	74	54	-9.39	212	1.00
5113.20	V	49.42	7.80	57.22	Peak	74	54	-16.78	150	1.00
5148.50	V	37.25	7.38	44.63	Ave	74	54	-9.37	150	1.00

Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector peak mode) for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector sample mode) for Average detection at frequency above 1GHz.

Cerpass Technology Corp. Issued date : Sep. 13, 2013

Tel:886-2-2655-8100 Fax:886-2-2655-8200 Page No. : 92 of 93

FCC ID : ZTT-SR20000G-2



11. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.150
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 - 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 - 25.67000	1300.0 - 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 – 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

11.1. Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cerpass Technology Corp.

Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 13, 2013

Page No. : 93 of 93

FCC ID : ZTT-SR20000G-2