

Diagram 8-2

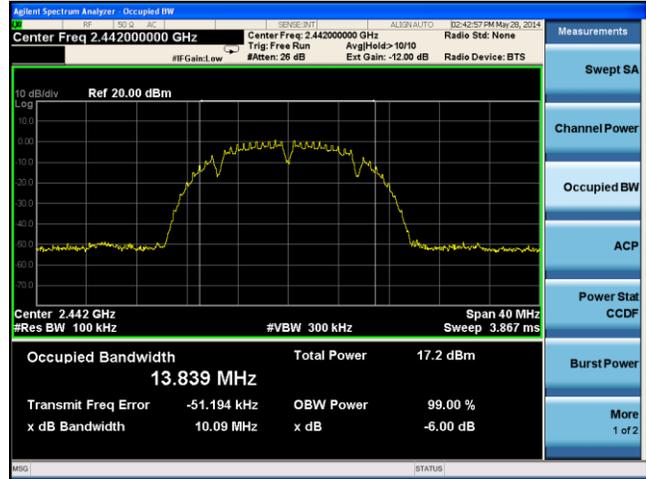
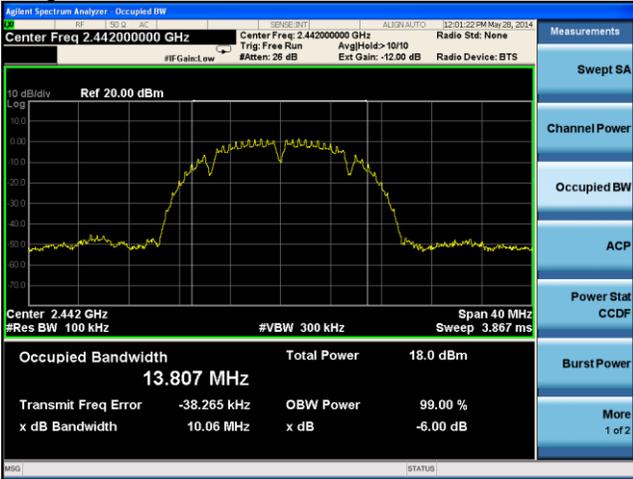


Diagram 8-3

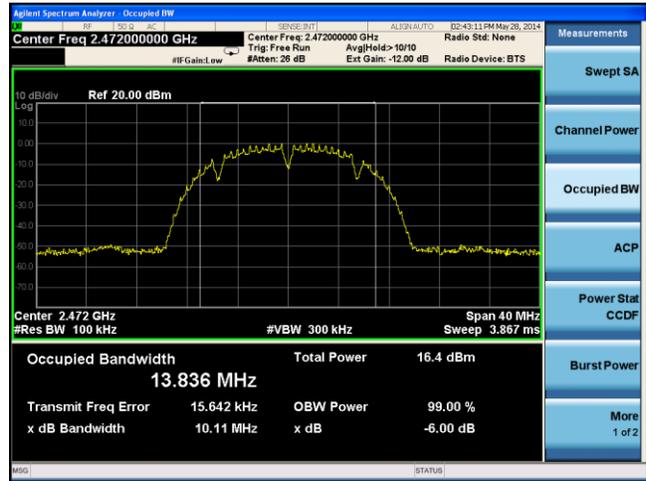
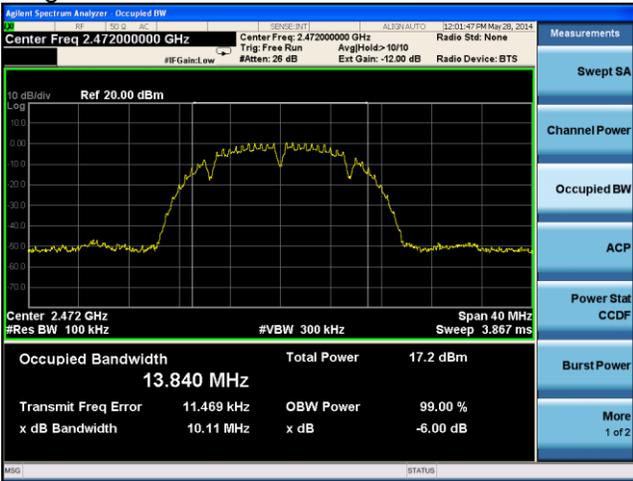


Diagram 8-4

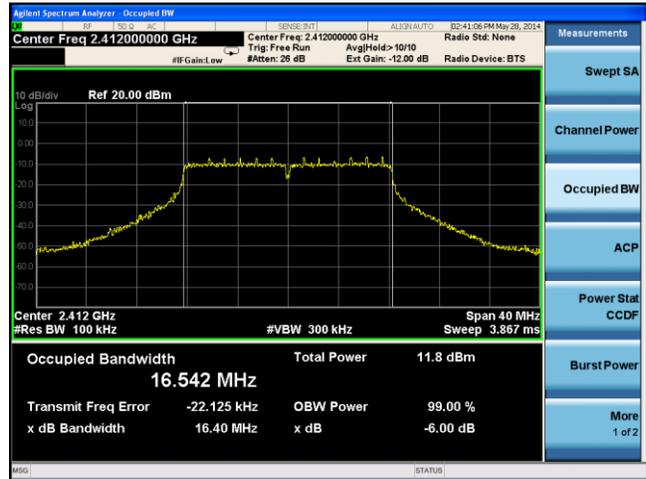
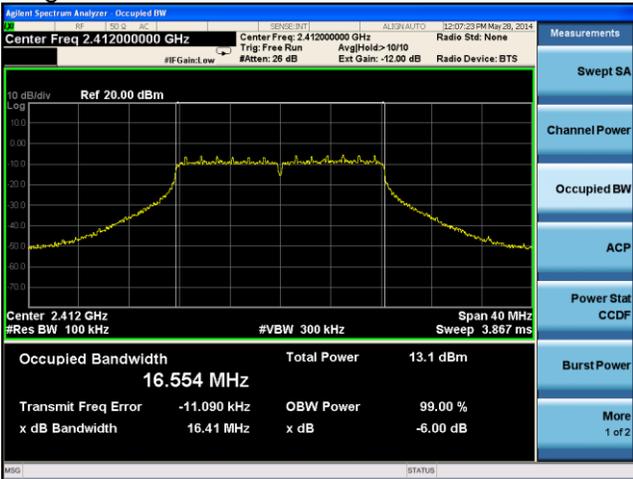


Diagram 8-5

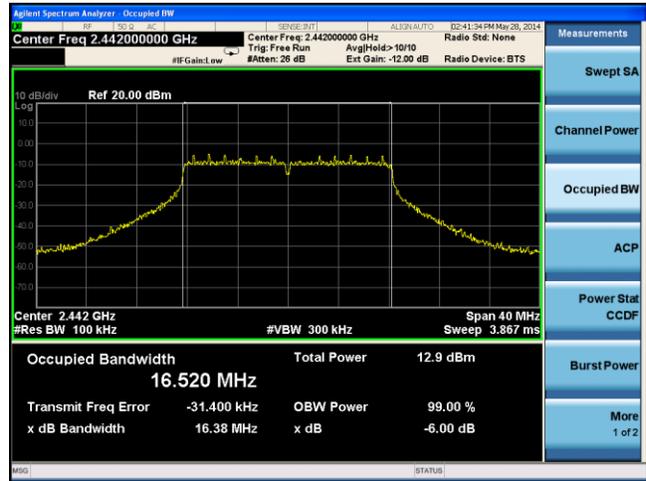


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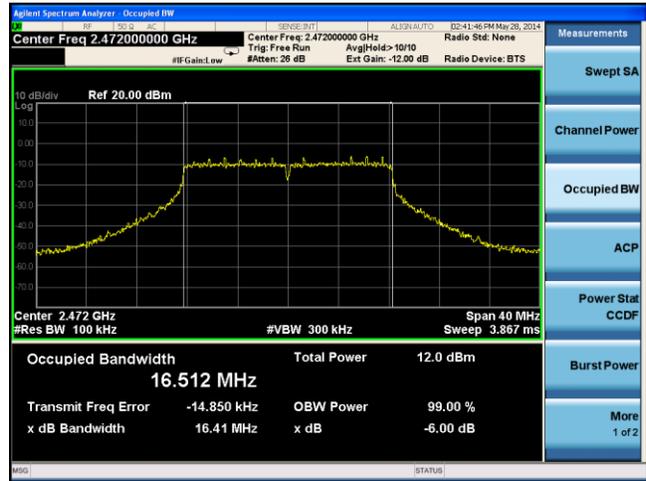


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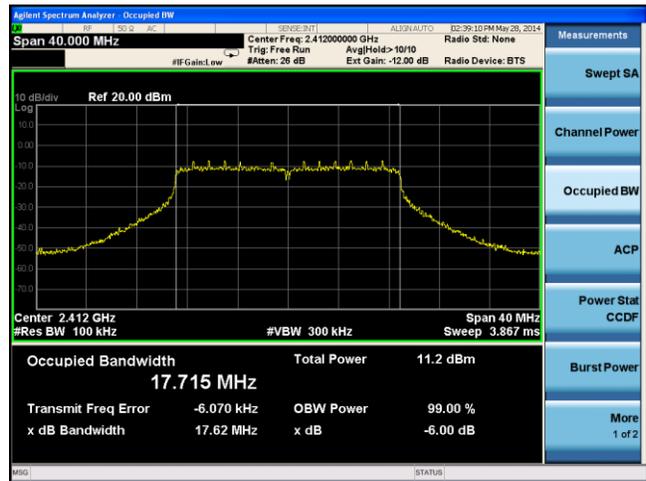
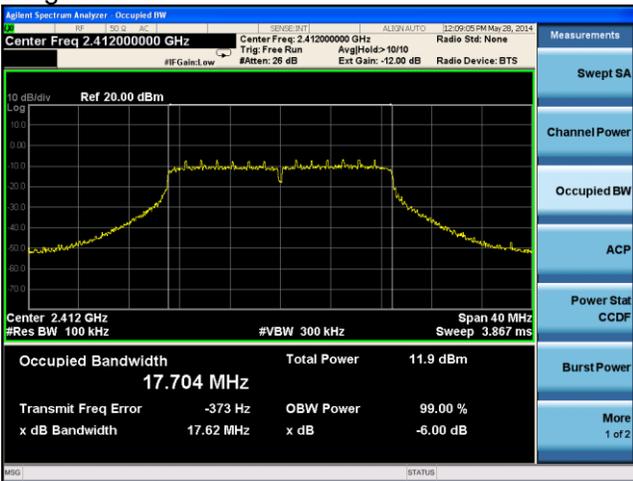


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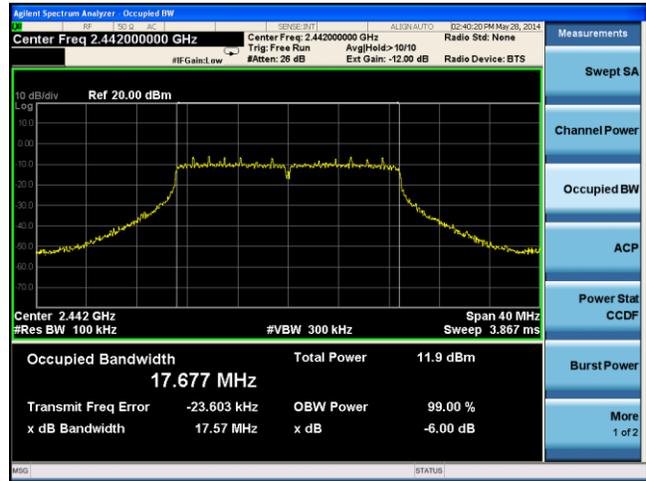
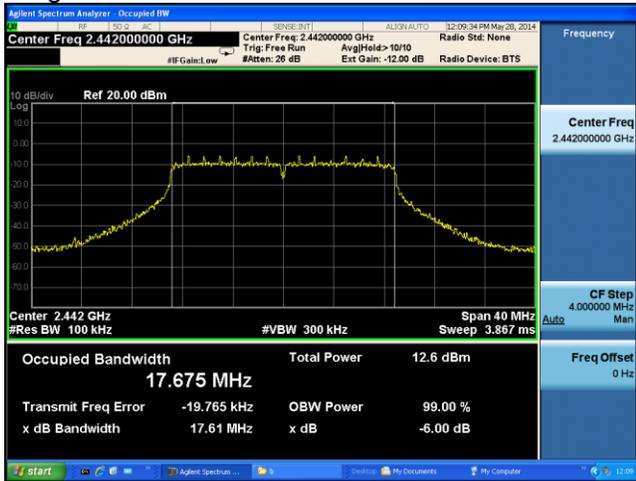


Diagram 8-9

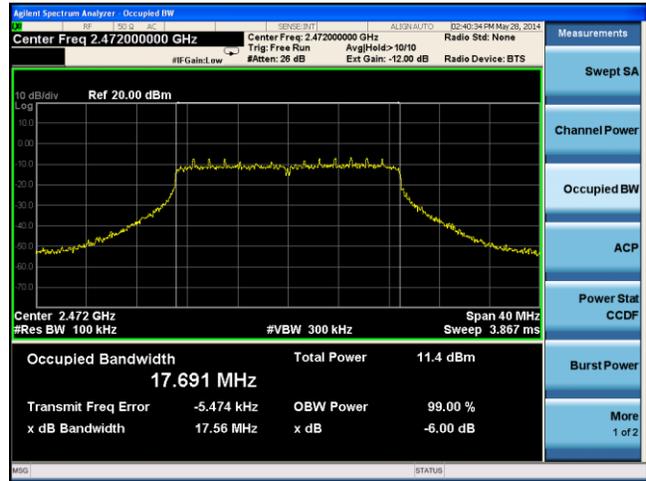
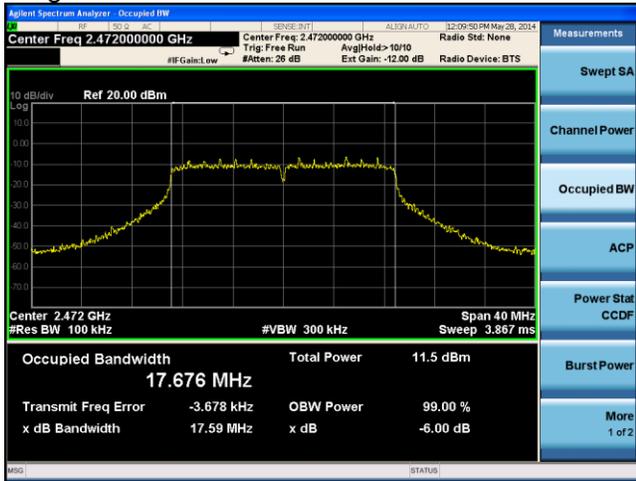


Diagram 8-10

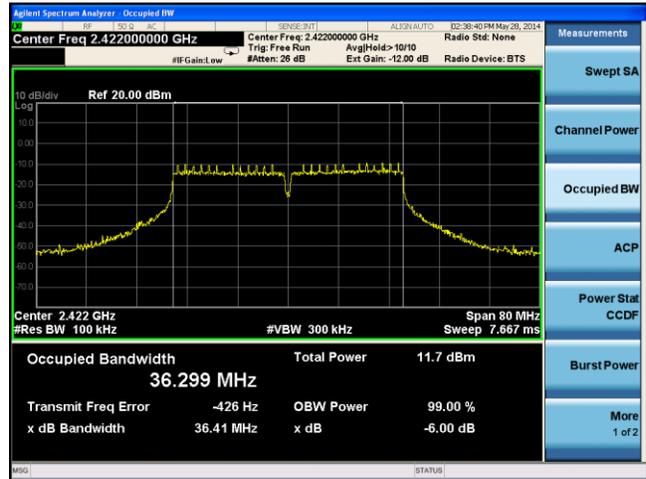
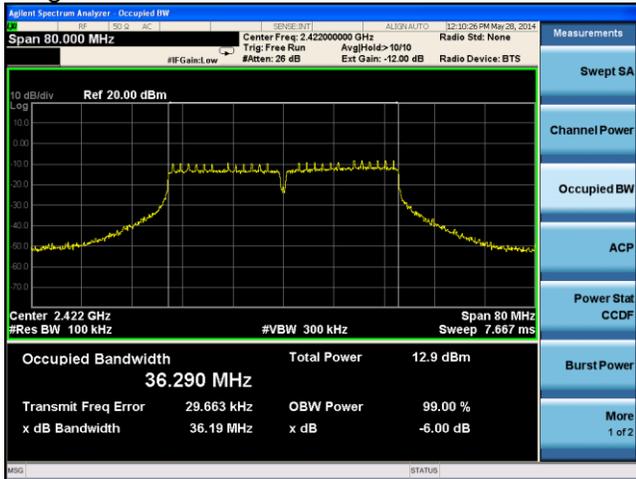


Diagram 8-11

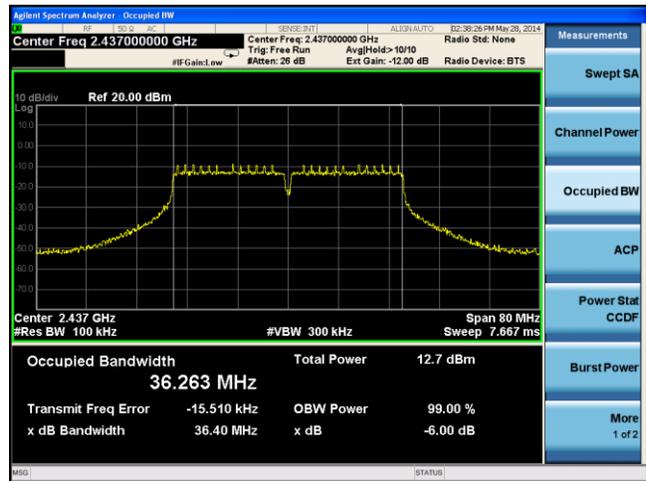
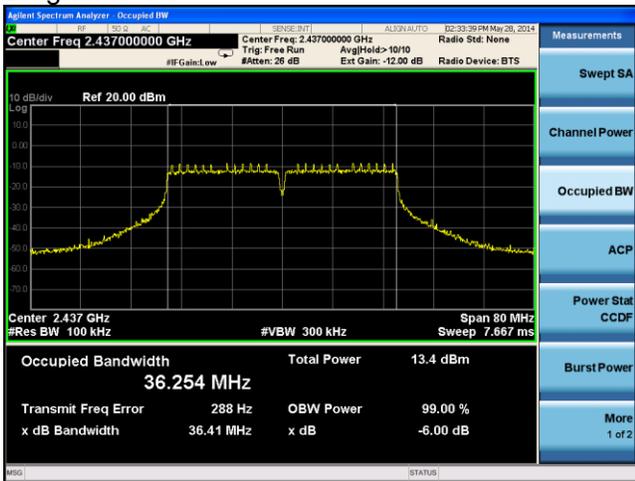
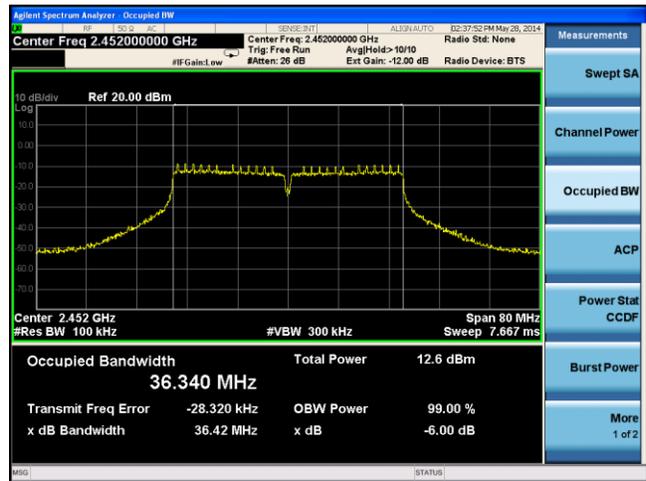
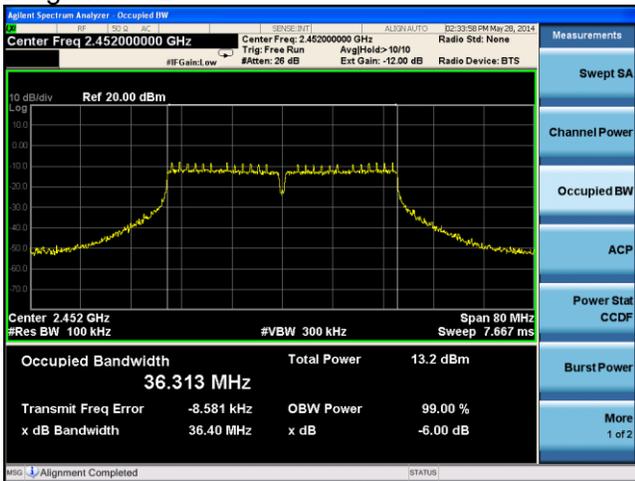


Diagram 8-12



9 MAXIMUM PEAK OUTPUT POWER

9.1 Applicable Standard: FCC §15.247

According to FCC§15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g. alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

9.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2014-6-16	2015-6-16

***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

9.3 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, and video bandwidth was set at 3MHz. Set the span to fully encompass the DTS bandwidth. Detector = peak, Sweep time = auto couple, Trace mode = max hold.

9.4 Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53%
ATM Pressure:	1009mbar

9.5 Test Result: Pass

Mode	Channel	Antenna Port	Power (dBm)	Total Power (dBm)	Limit (dBm)	Test Data	Result
802.11.b	CH LOW	Port 1	14.33	17.35	30	Diagram 9-1	Pass
		Port 2	14.34				Pass
	CH MID	Port 1	14.71	17.68	30	Diagram 9-2	Pass
		Port 2	14.62				Pass
	CH HIGH	Port 1	13.50	16.50	30	Diagram 9-3	Pass
		Port 2	13.47				Pass
802.11.g	CH LOW	Port 1	14.82	17.76	30	Diagram 9-4	Pass
		Port 2	14.68				Pass
	CH MID	Port 1	14.65	17.64	30	Diagram 9-5	Pass
		Port 2	14.61				Pass
	CH HIGH	Port 1	14.66	17.62	30	Diagram 9-6	Pass
		Port 2	14.56				Pass
802.11.n. HT20	CH LOW	Port 1	14.44	17.37	30	Diagram 9-7	Pass
		Port 2	14.28				Pass
	CH MID	Port 1	14.50	17.39	30	Diagram 9-8	Pass
		Port 2	14.26				Pass
	CH HIGH	Port 1	13.93	16.91	30	Diagram 9-9	Pass
		Port 2	13.87				Pass
802.11.n. HT40	CH LOW	Port 1	14.85	17.78	30	Diagram 9-10	Pass
		Port 2	14.68				Pass
	CH MID	Port 1	14.48	17.54	30	Diagram 9-11	Pass
		Port 2	14.58				Pass
	CH HIGH	Port 1	14.58	17.59	30	Diagram 9-12	Pass
		Port 2	14.57				Pass

Please refer to following plots.

Diagram 9-1

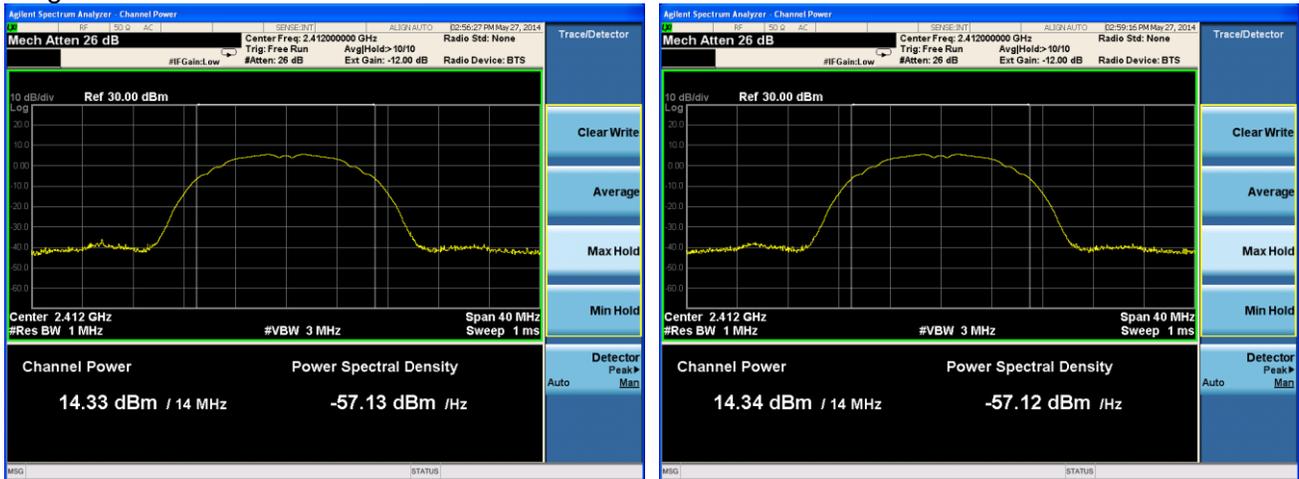


Diagram 9-2



Diagram 9-3



Diagram 9-4



Diagram 9-5



Diagram 9-6



Diagram 9-7



Diagram 9-8



Diagram 9-9



Diagram 9-10



Diagram 9-11

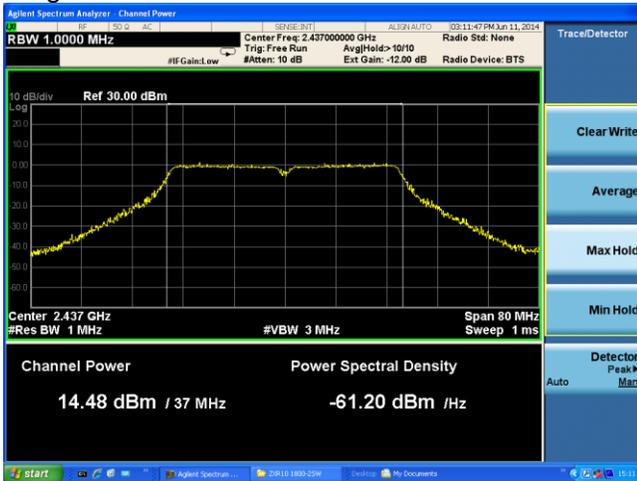


Diagram 9-12



10 100kHz BANDWIDTH OF FREQUENCY BAND EDGE

10.1 Applicable Standard: FCC § 15.247(d)

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

10.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2014-6-16	2015-6-16

***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

10.3 Test Procedure

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. RBW =100kHz, VBW=300kHz; Detector = Peak, Trace mode = max hold

10.4 Environmental Conditions

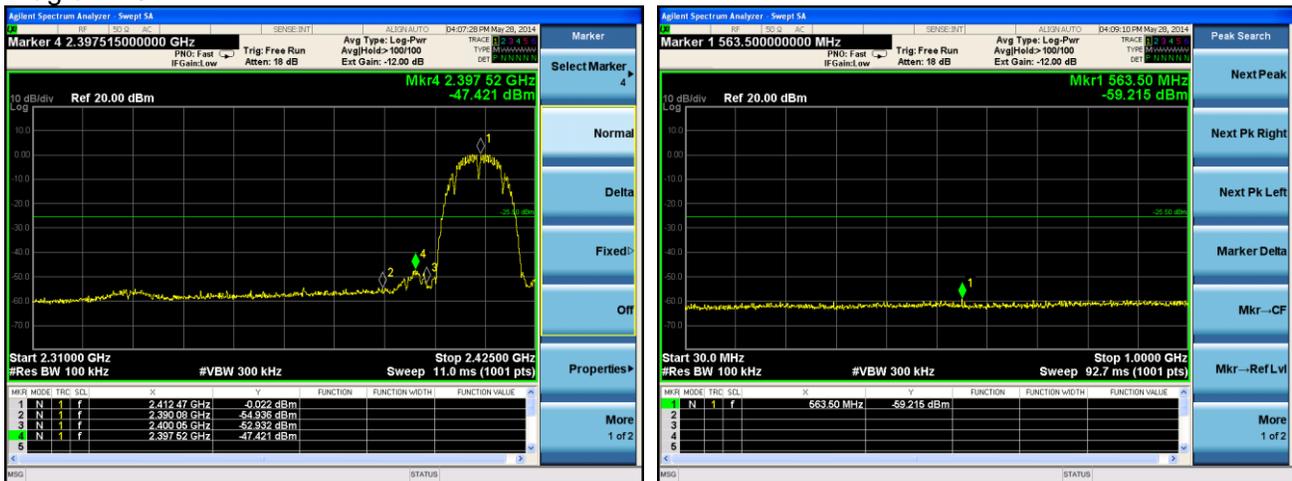
Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

10.5 Test Result: pass

Mode	Port	Channel	Test Data	Test Result
802.11.b	Port 1	CH LOW	Diagram 10-1	Pass
		CH MID	Diagram 10-2	Pass
		CH HIGH	Diagram 10-3	Pass
	Port 2	CH LOW	Diagram 10-4	Pass
		CH MID	Diagram 10-5	Pass
		CH HIGH	Diagram 10-6	Pass
802.11.g	Port 1	CH LOW	Diagram 10-7	Pass
		CH MID	Diagram 10-8	Pass
		CH HIGH	Diagram 10-9	Pass
	Port 2	CH LOW	Diagram 10-10	Pass
		CH MID	Diagram 10-11	Pass
		CH HIGH	Diagram 10-12	Pass
802.11.n20	Port 1	CH LOW	Diagram 10-13	Pass
		CH MID	Diagram 10-14	Pass
		CH HIGH	Diagram 10-15	Pass
	Port 2	CH LOW	Diagram 10-16	Pass
		CH MID	Diagram 10-17	Pass
		CH HIGH	Diagram 10-18	Pass
802.11.n40	Port 1	CH LOW	Diagram 10-19	Pass
		CH MID	Diagram 10-20	Pass
		CH HIGH	Diagram 10-21	Pass
	Port 2	CH LOW	Diagram 10-22	Pass
		CH MID	Diagram 10-23	Pass
		CH HIGH	Diagram 10-24	Pass

Please refer to following plots.

Diagram 10-1



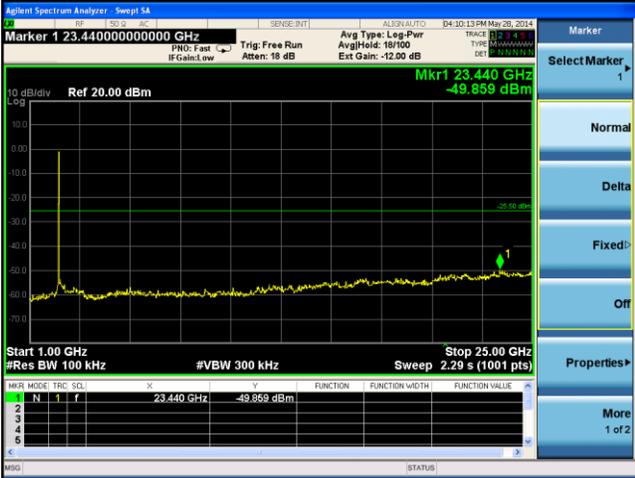


Diagram 10-2

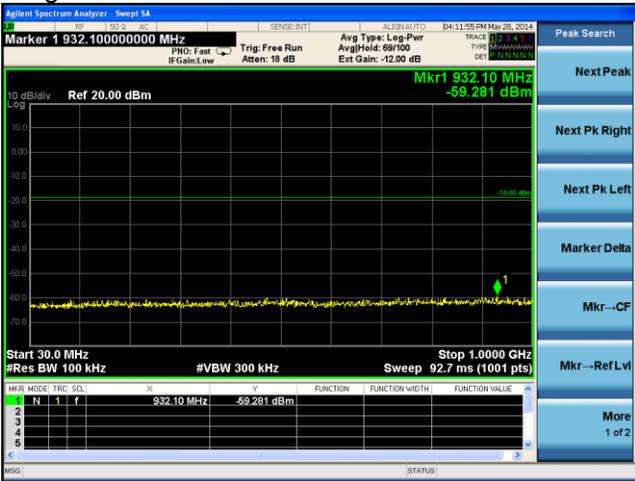


Diagram 10-3

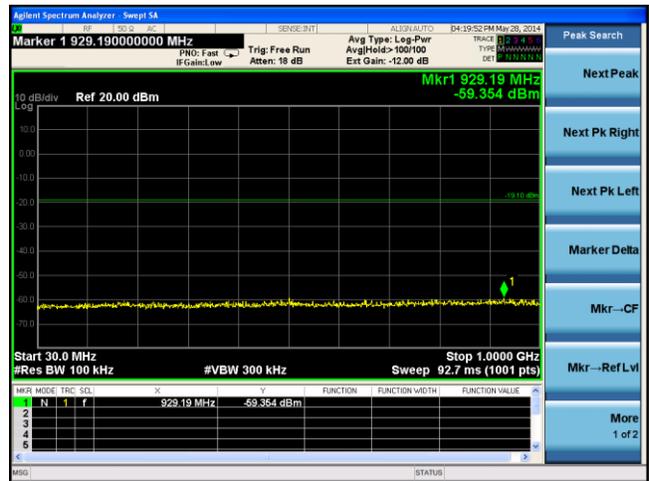
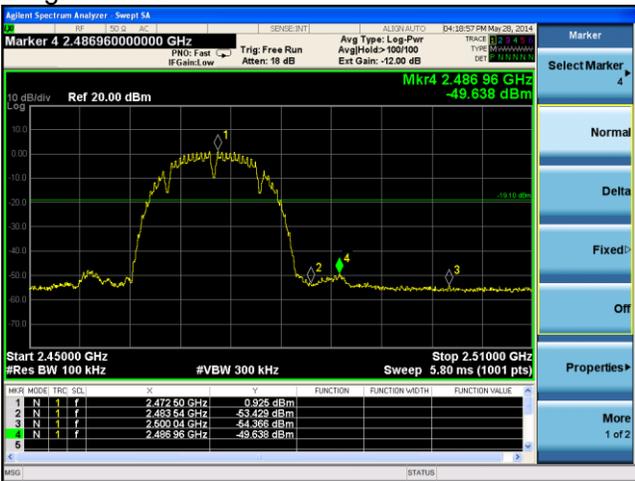




Diagram 10-4

