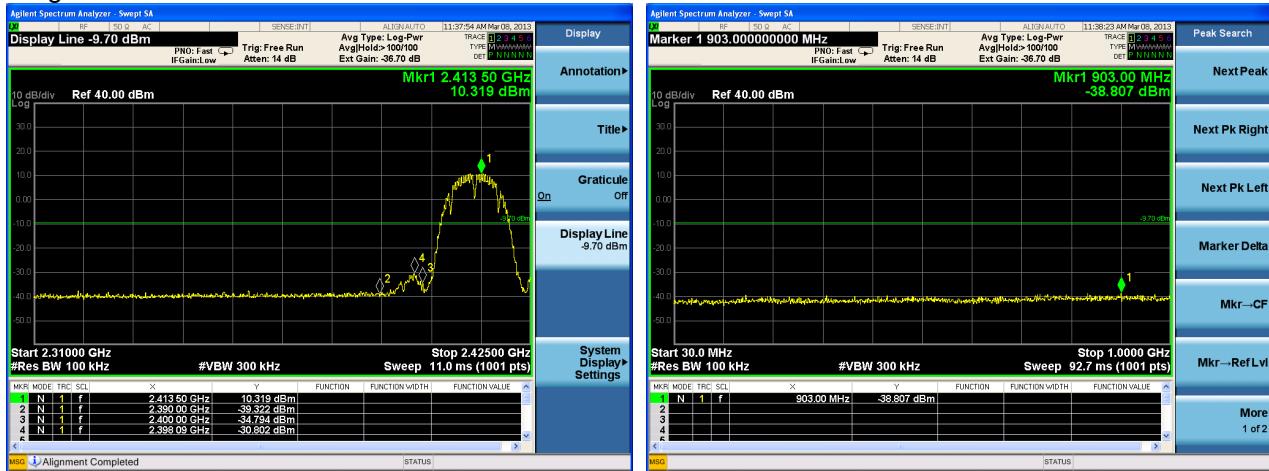


Diagram 10-3



Diagram 10-4



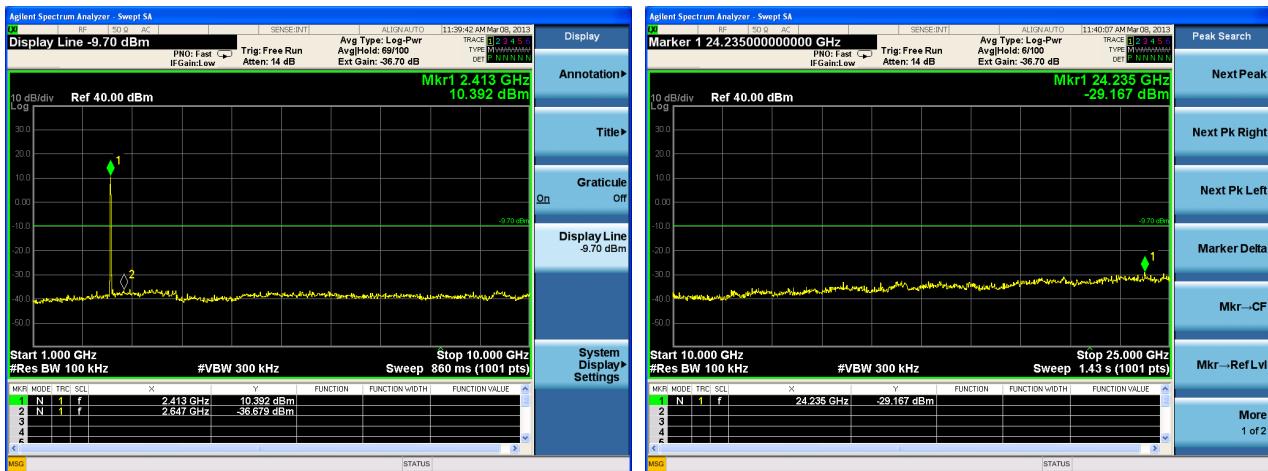


Diagram 10-5





FCC ID: SFG-BGATE

Diagram 10-6

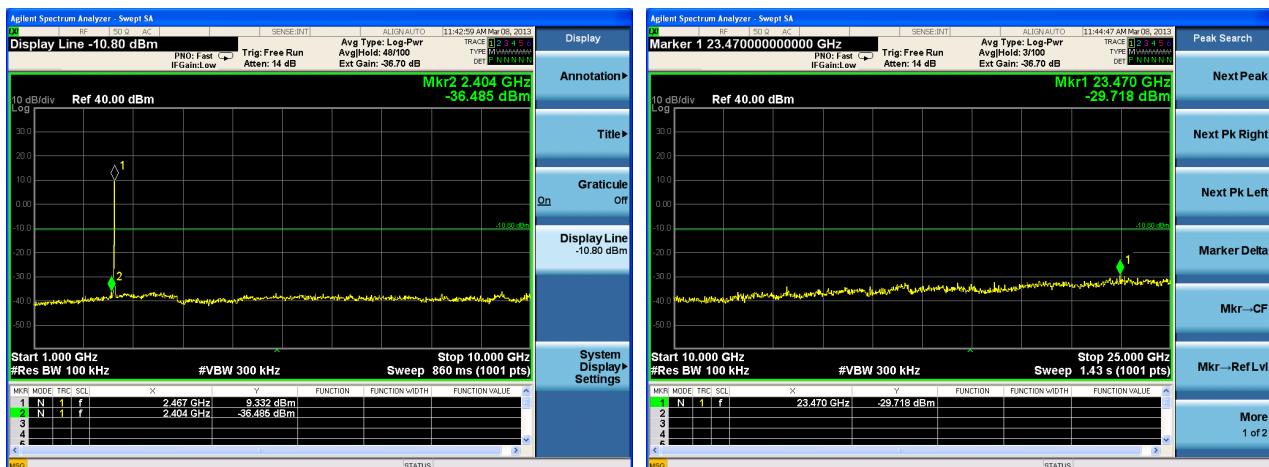
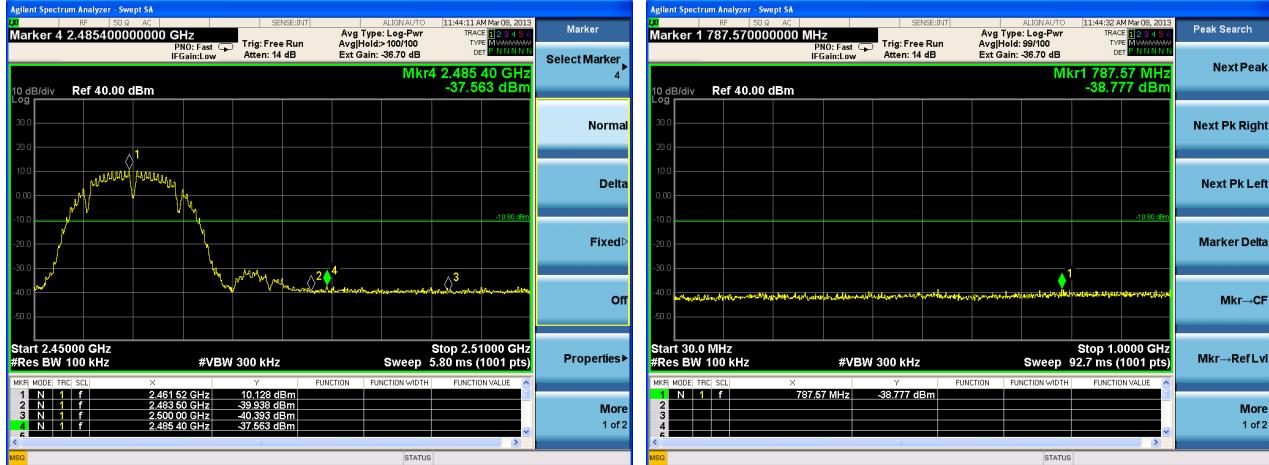


Diagram 10-7





Diagram 10-8



Diagram 10-9



Diagram 10-10



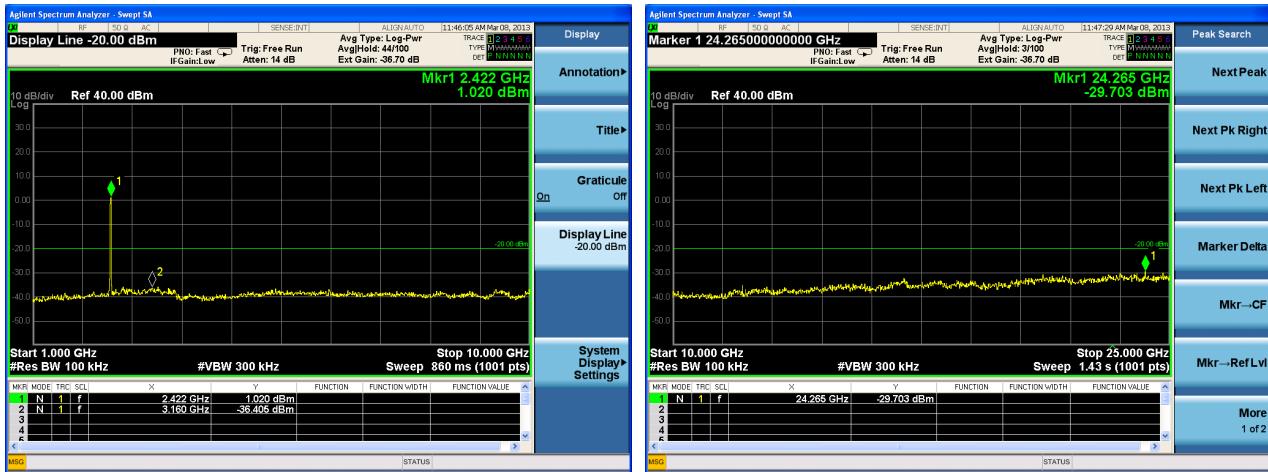


Diagram 10-11

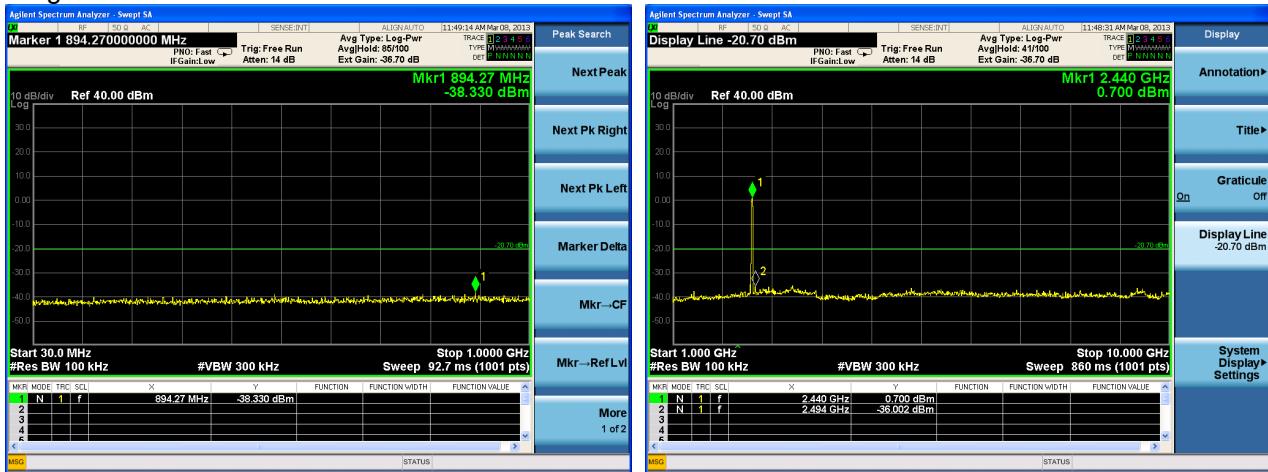


Diagram 10-12

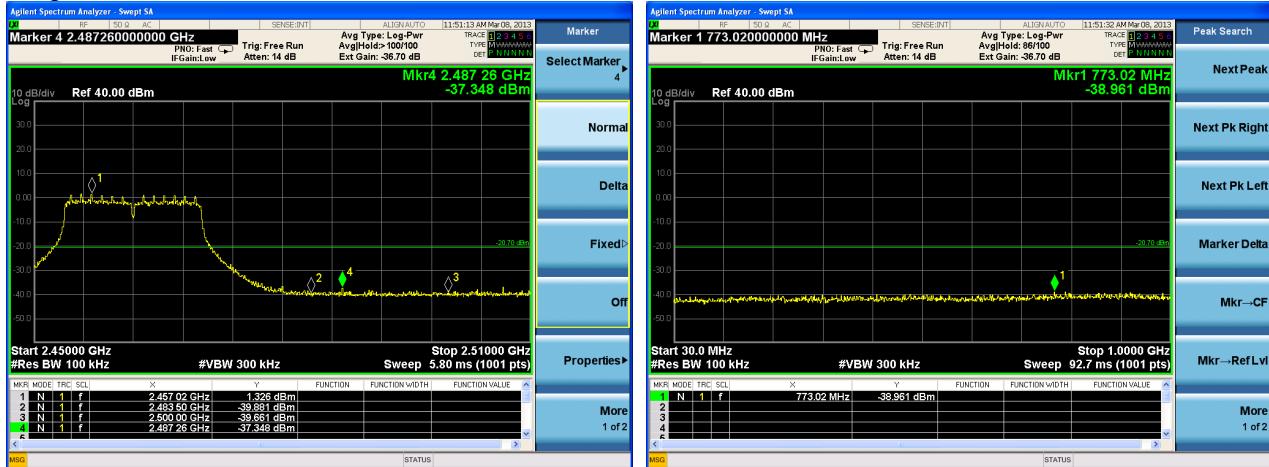


Diagram 10-13



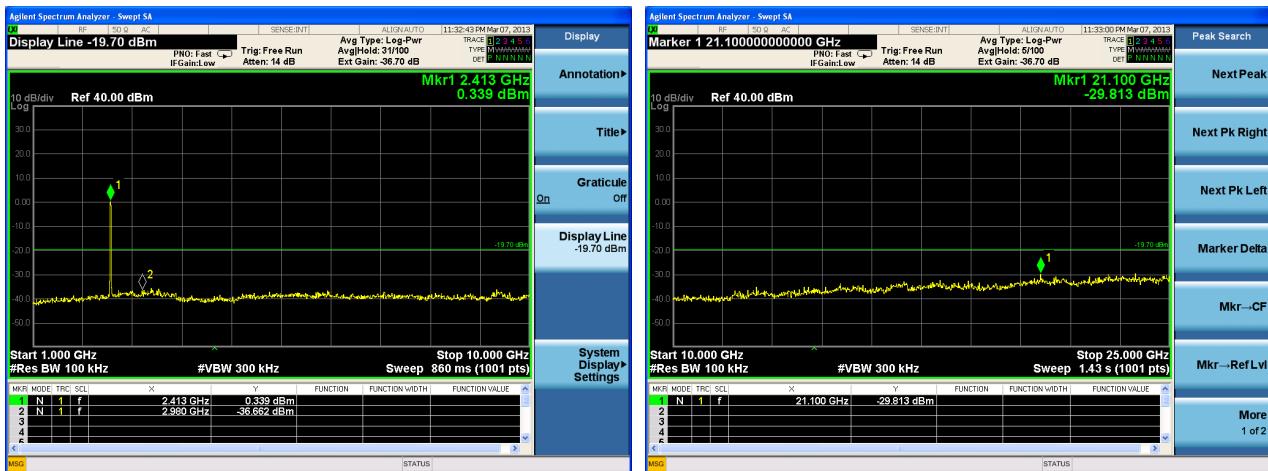


Diagram 10-14





Diagram 10-15

FCC ID: SFG-BGATE



Diagram 10-16



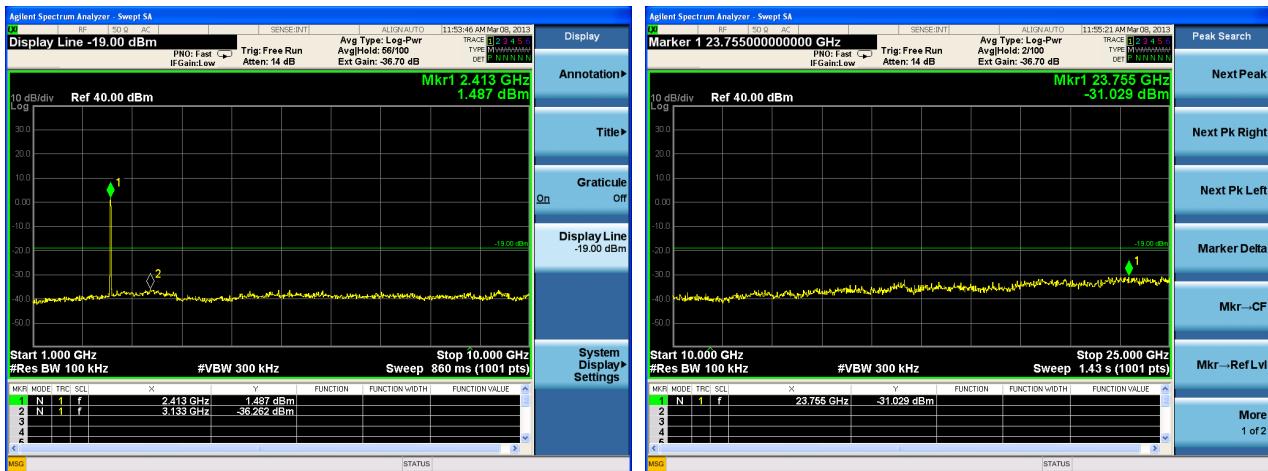


Diagram 10-17

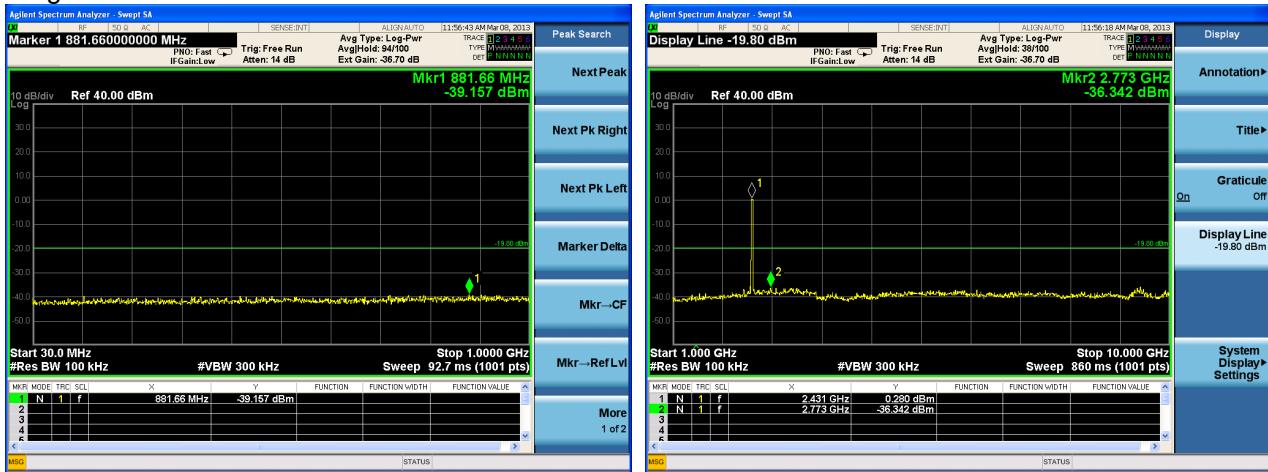


Diagram 10-18



Diagram 10-19





Diagram 10-20



Diagram 10-21

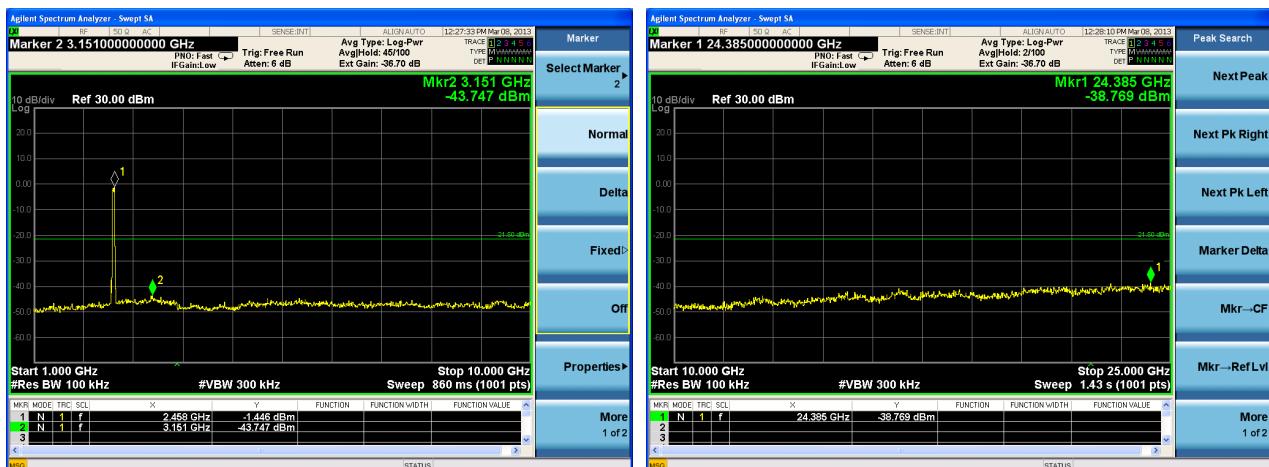


Diagram 10-22

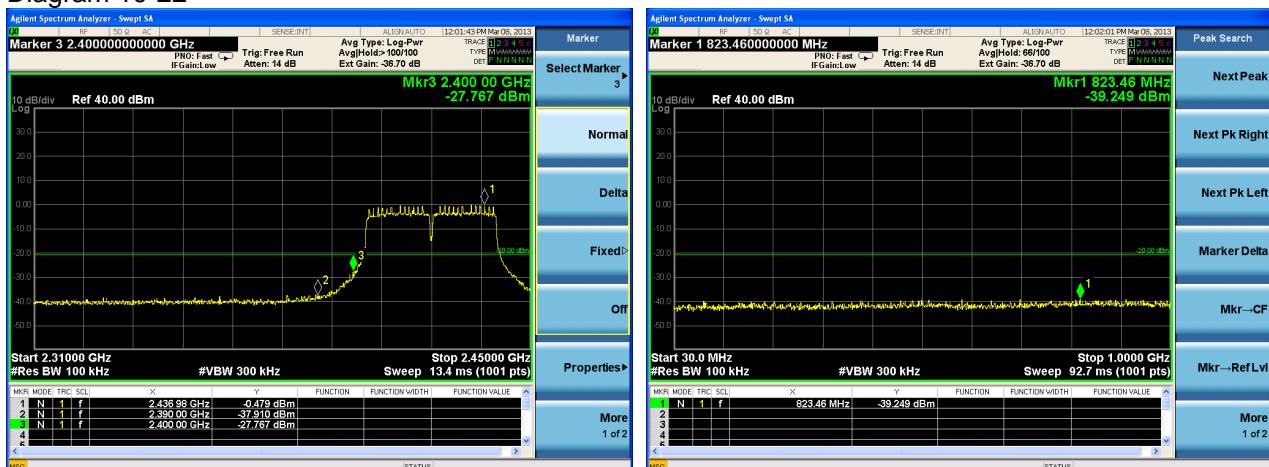




Diagram 10-23



Diagram 10-24

FCC ID: SFG-BGATE



11 POWER SPECTRAL DENSITY

11.1 Applicable Standard: FCC § 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional Radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

11.2 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|------------------------------|--------|---------------|------------------|----------------------|
| Agilent | MXA Series Spectrum Analyzer | N9020A | MY48011941 | 2012-6-17 | 2013-6-17 |

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

11.3 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. Adjust the center frequency of SA on any frequency be measured and set the span to 1.5 times the channel bandwidth. And then, set RBW=3kHz, and VBW=10kHz.

11.4 Test Data Environmental Conditions

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

11.5 Test Result: Pass

| Mode | Channel | Antenna Port | Power Spectral Density(dBm) | Total Power Spectral Density(dBm) | Limit (dBm) | Test Data | Result |
|----------------|---------|--------------|-----------------------------|-----------------------------------|-------------|---------------|--------|
| 802.11.b | CH LOW | Port 1 | -6.534 | -3.524 | 8 | Diagram 11-1 | Pass |
| | | Port 2 | -6.587 | | | | Pass |
| | CH MID | Port 1 | -5.327 | -2.285 | 8 | Diagram 11-2 | Pass |
| | | Port 2 | -5.295 | | | | Pass |
| | CH HIGH | Port 1 | -6.817 | -2.960 | 8 | Diagram 11-3 | Pass |
| | | Port 2 | -5.970 | | | | Pass |
| 802.11.g | CH LOW | Port 1 | -11.865 | -8.061 | 8 | Diagram 11-4 | Pass |
| | | Port 2 | -11.071 | | | | Pass |
| | CH MID | Port 1 | -11.311 | -8.301 | 8 | Diagram 11-5 | Pass |
| | | Port 2 | -11.992 | | | | Pass |
| | CH HIGH | Port 1 | -11.929 | -8.919 | 8 | Diagram 11-6 | Pass |
| | | Port 2 | -12.008 | | | | Pass |
| 802.11.n. HT20 | CH LOW | Port 1 | -12.213 | -9.203 | 8 | Diagram 11-7 | Pass |
| | | Port 2 | -12.460 | | | | Pass |
| | CH MID | Port 1 | -11.974 | -8.964 | 8 | Diagram 11-8 | Pass |
| | | Port 2 | -12.185 | | | | Pass |
| | CH HIGH | Port 1 | -12.356 | -9.346 | 8 | Diagram 11-9 | Pass |
| | | Port 2 | -12.509 | | | | Pass |
| 802.11.n. HT40 | CH LOW | Port 1 | -13.739 | -10.729 | 8 | Diagram 11-10 | Pass |
| | | Port 2 | -14.380 | | | | Pass |
| | CH MID | Port 1 | -12.419 | -9.409 | 8 | Diagram 11-11 | Pass |
| | | Port 2 | -13.734 | | | | Pass |
| | CH HIGH | Port 1 | -13.057 | -10.047 | 8 | Diagram 11-12 | Pass |
| | | Port 2 | -13.352 | | | | Pass |

Please refer to following plots.

Diagram 11-1

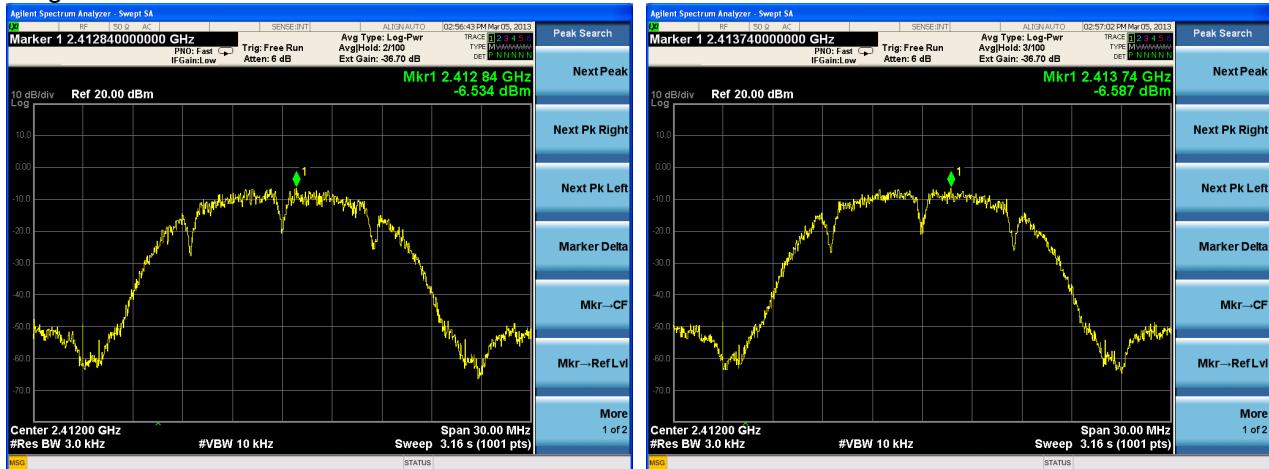


Diagram 11-2



Diagram 11-3



Diagram 11-4

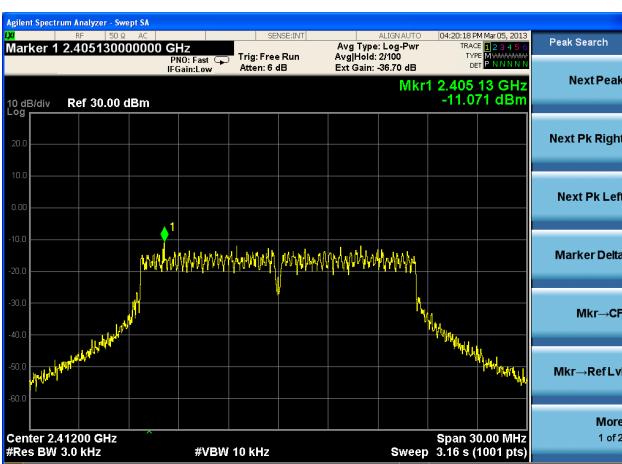
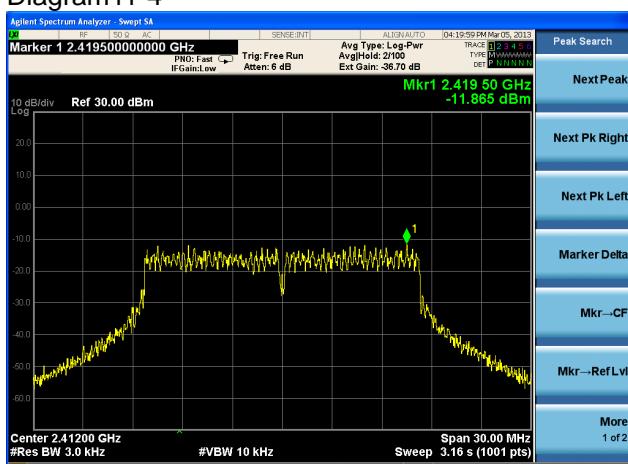


Diagram11-5

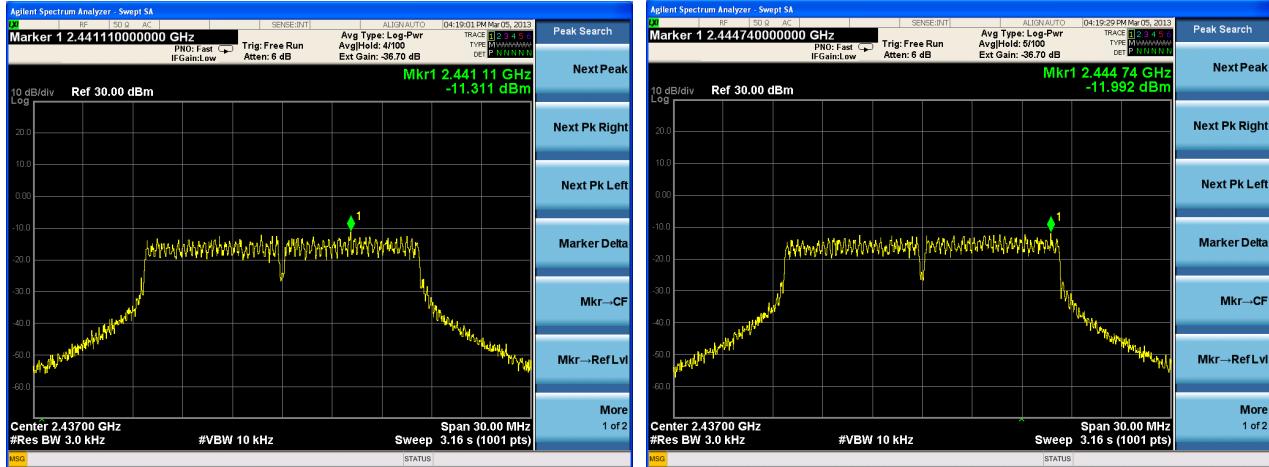


Diagram11-6

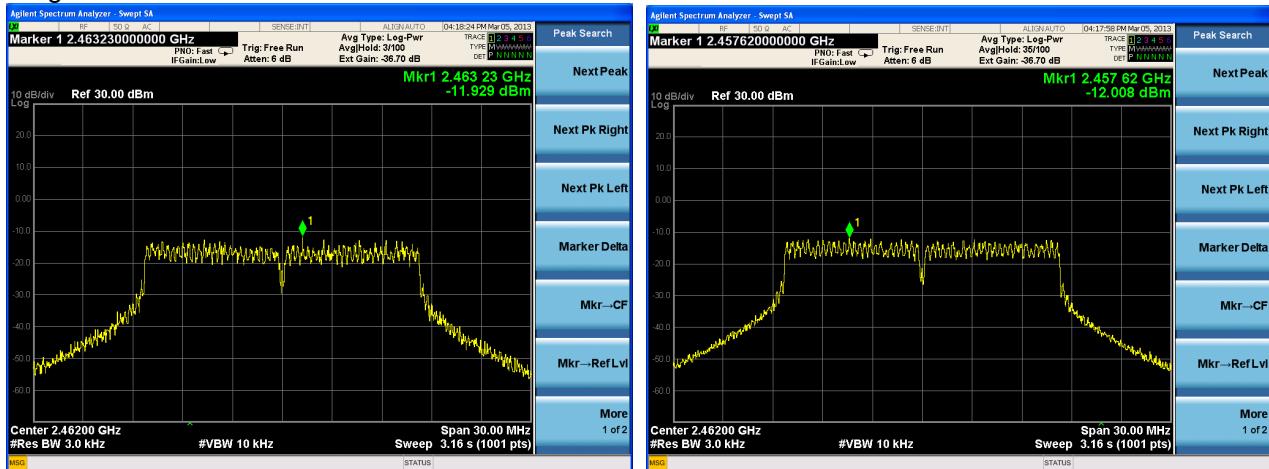


Diagram11-7

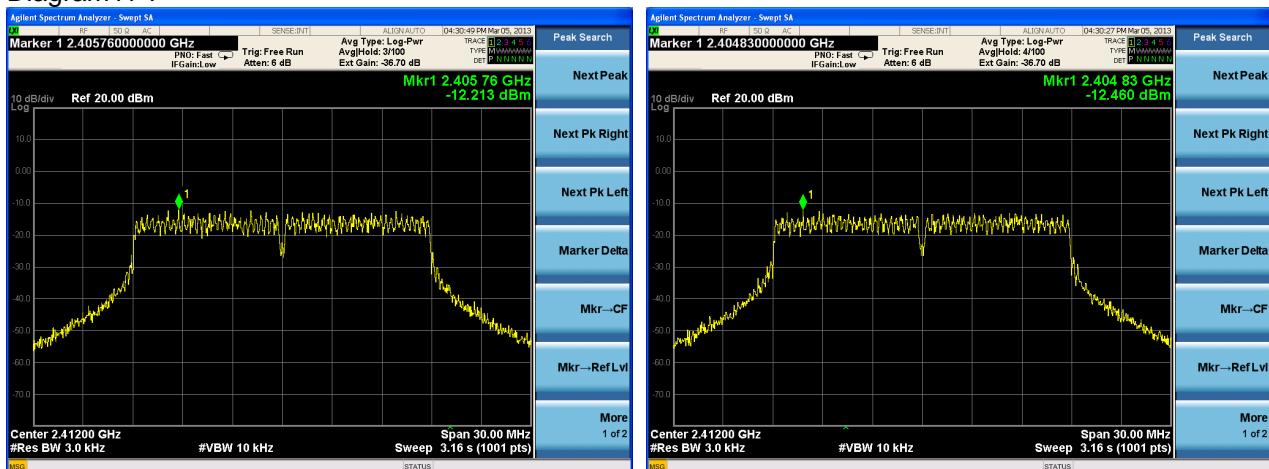


Diagram11-8

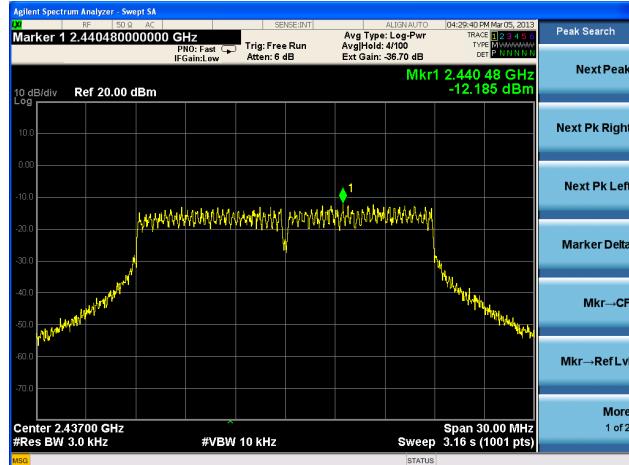
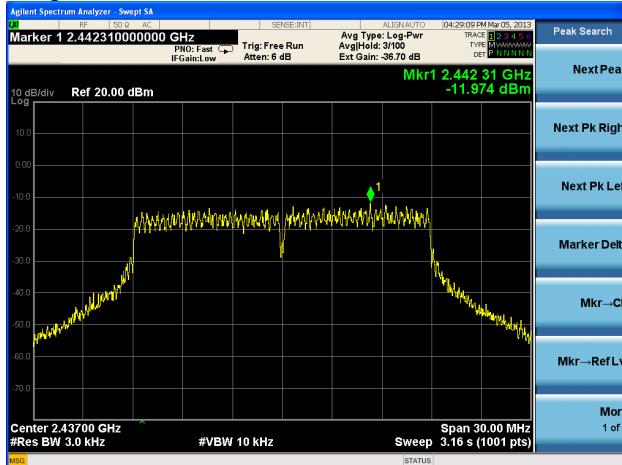


Diagram11-9

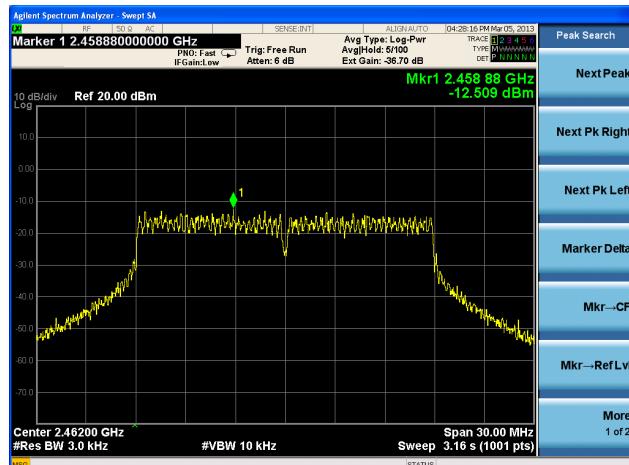
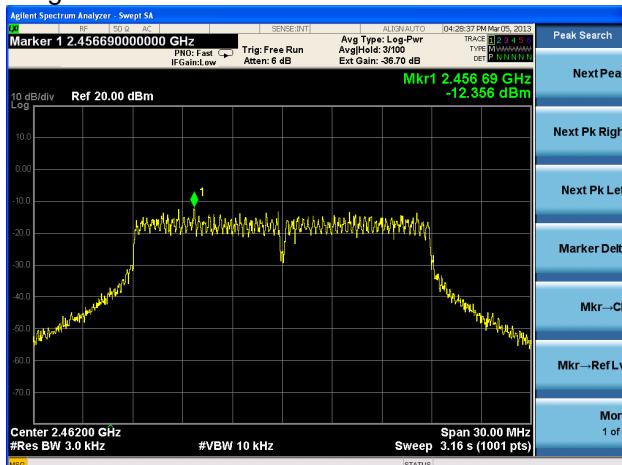


Diagram11-10

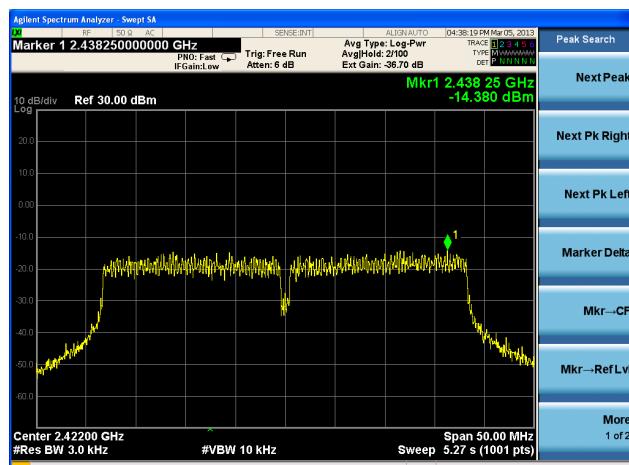
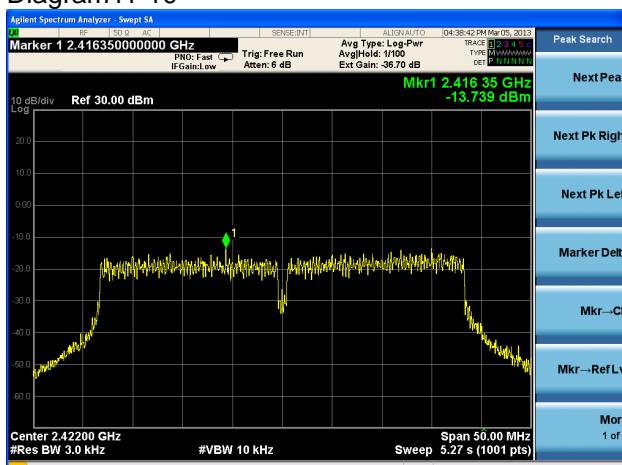


Diagram11-11

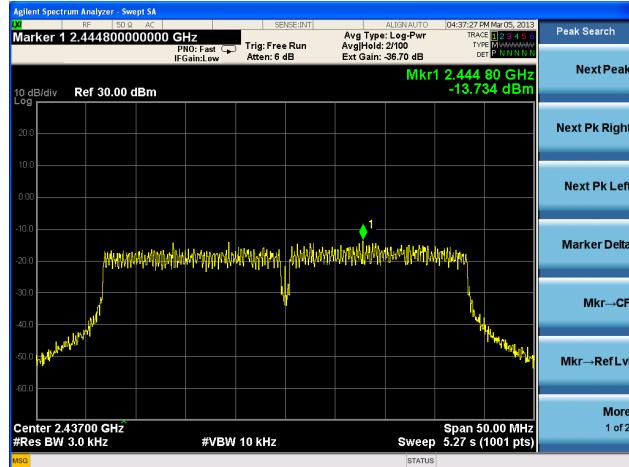
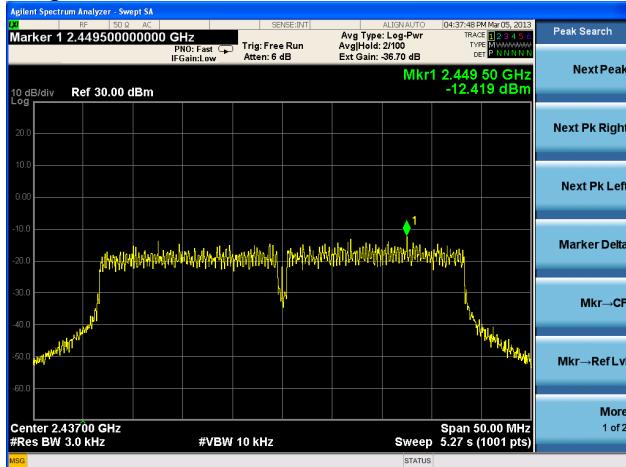


Diagram11-12

