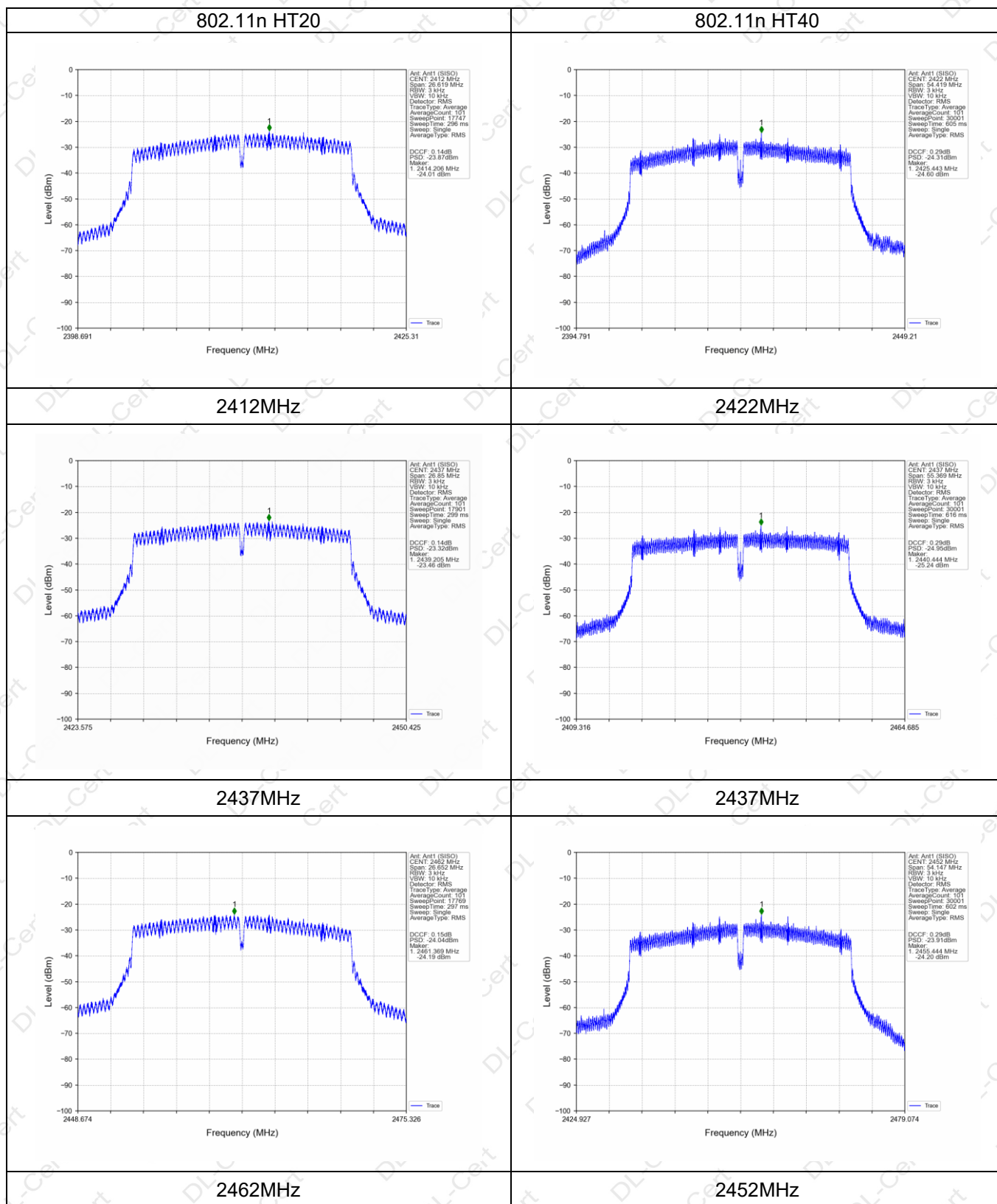






6. 6DB BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

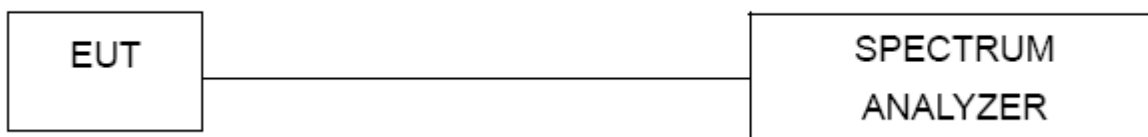
6.1.1 TEST PROCEDURE

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the VBW $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

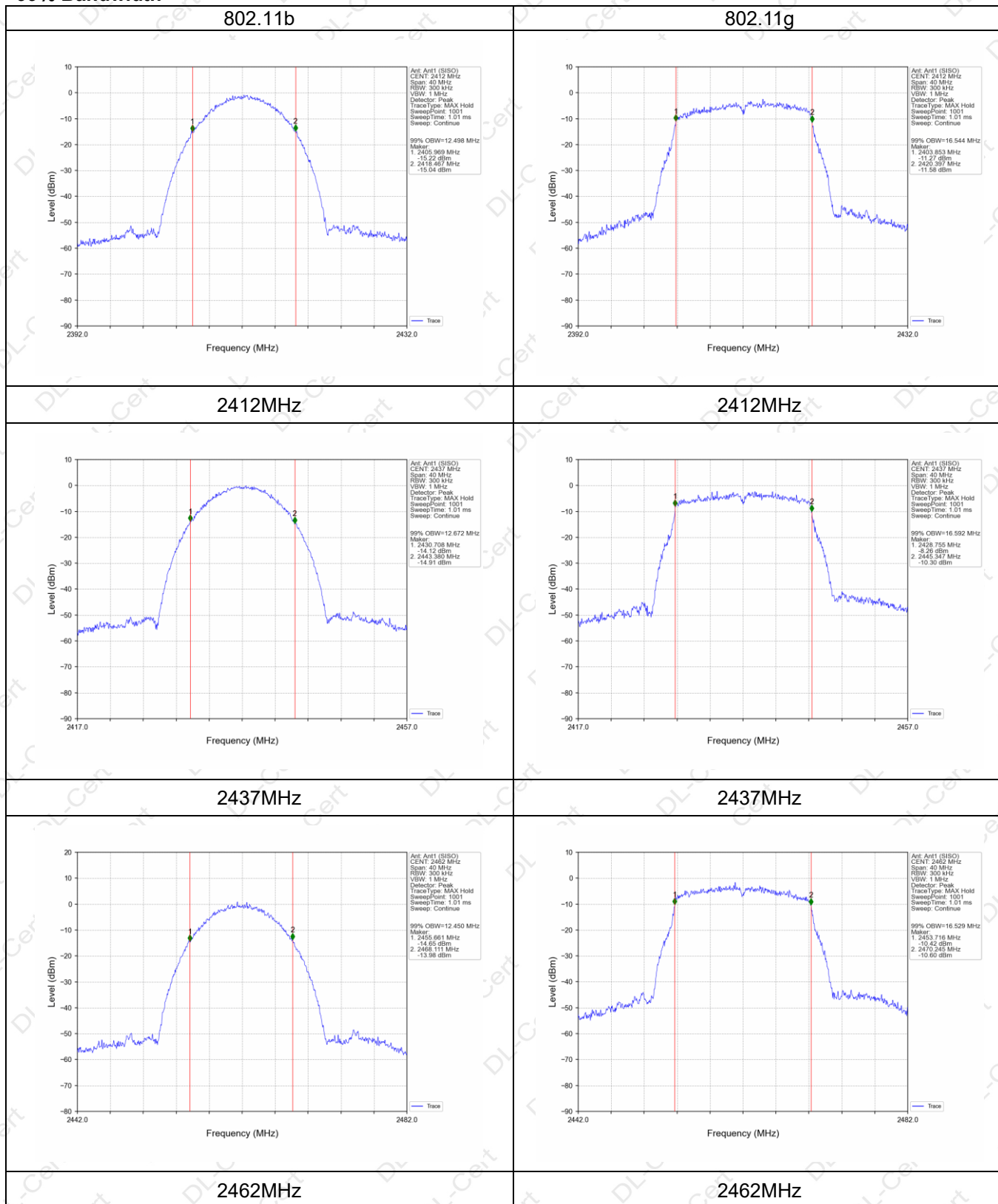
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

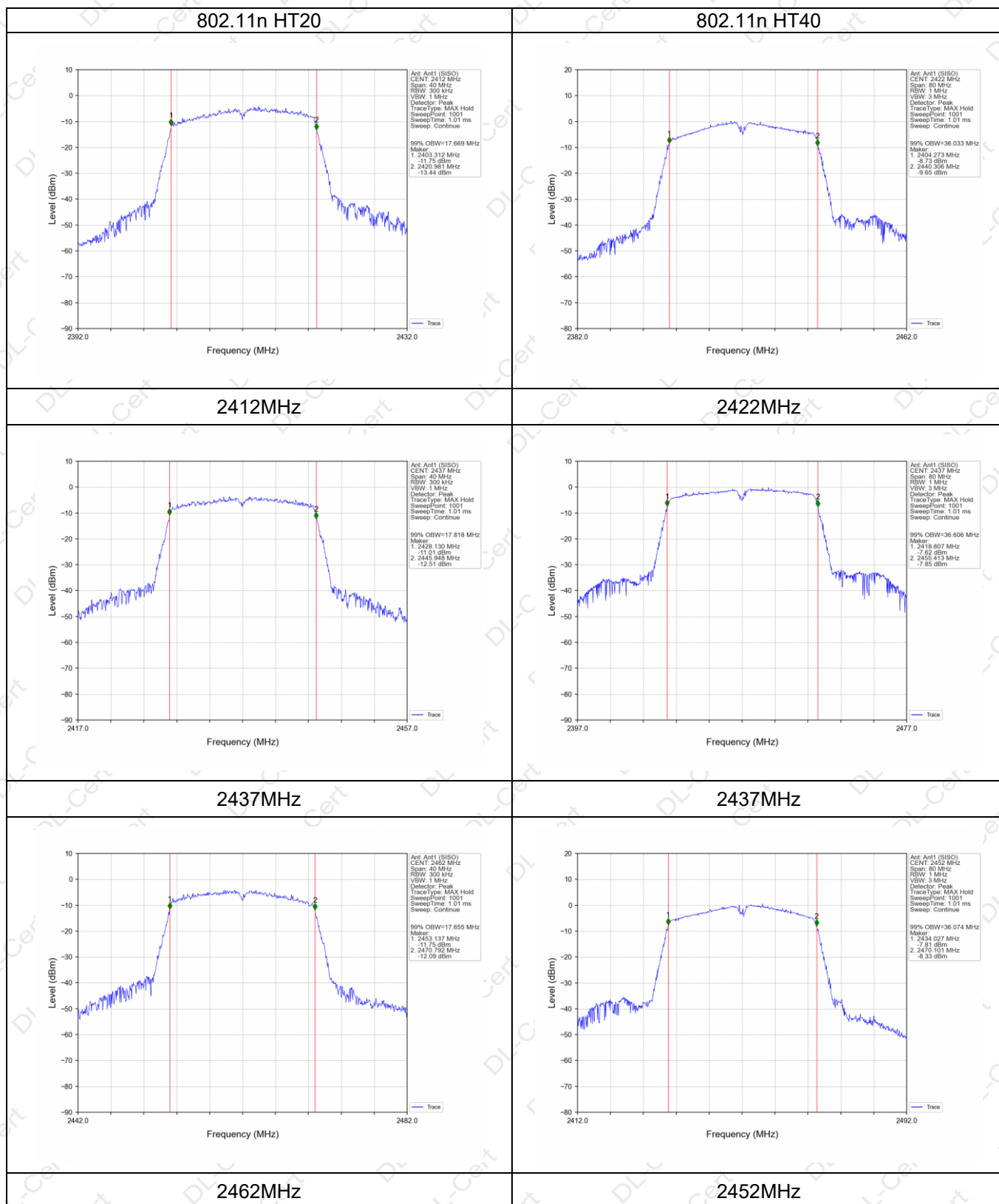
**6.1.5 TEST RESULTS**

	Test Channel	6dB Bandwidth (MHz)	99%Bandwidth (MHz)	Limit (MHz)	Result
802.11b	Low	7.828	12.498	0.5	Pass
	Middle	7.580	12.672	0.5	Pass
	High	7.887	12.450	0.5	Pass
802.11g	Low	15.737	16.544	0.5	Pass
	Middle	16.310	16.592	0.5	Pass
	High	15.920	16.529	0.5	Pass
802.11n HT20	Low	16.657	17.669	0.5	Pass
	Middle	17.538	17.818	0.5	Pass
	High	17.314	17.655	0.5	Pass
802.11n HT40	Low	33.813	36.033	0.5	Pass
	Middle	36.066	36.606	0.5	Pass
	High	34.394	36.074	0.5	Pass



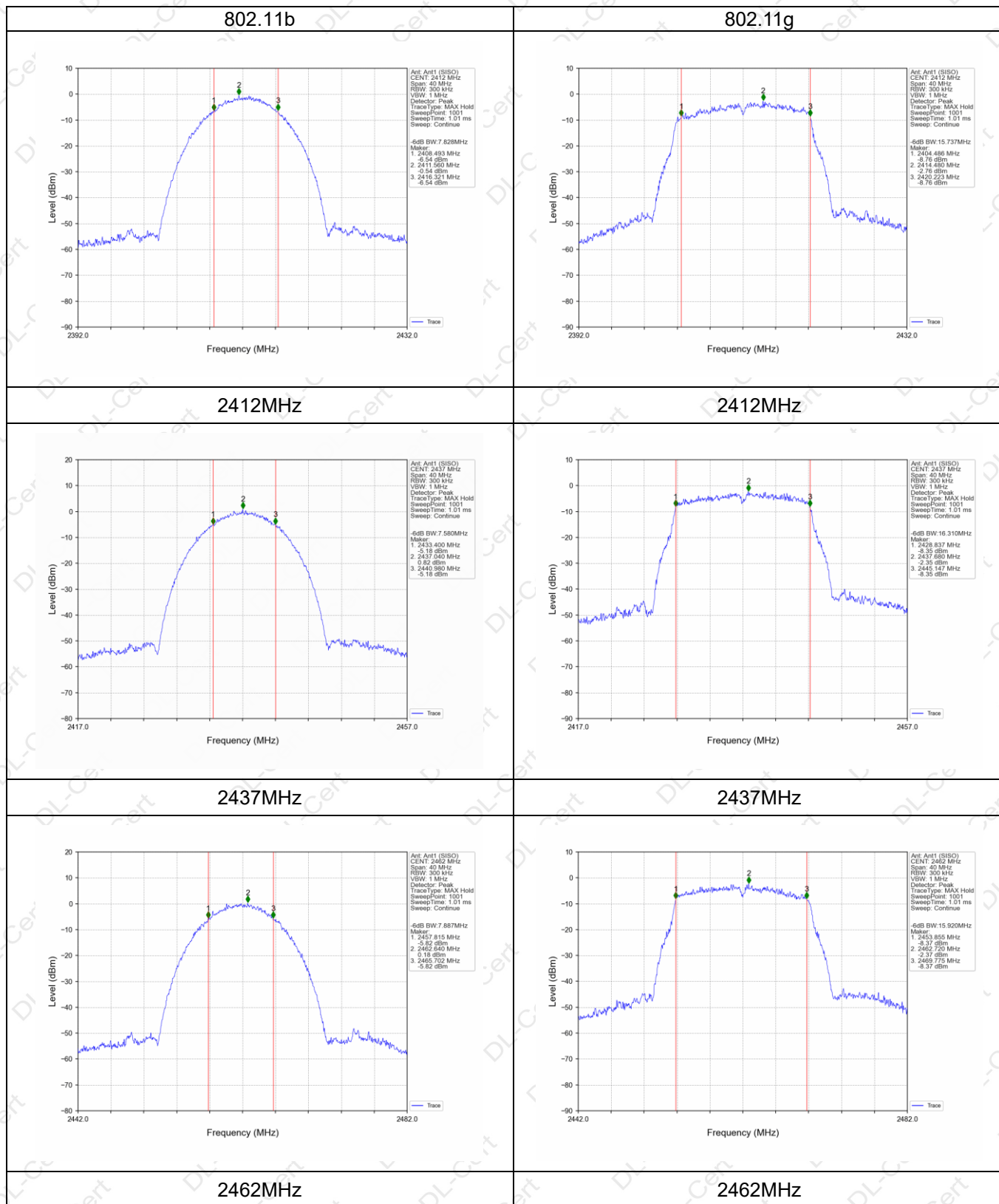
99% Bandwidth





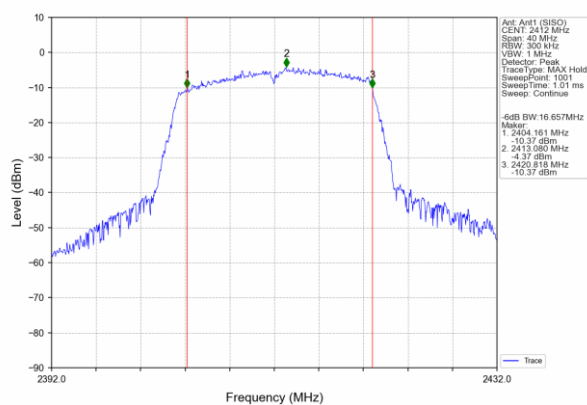


6dB Bandwidth

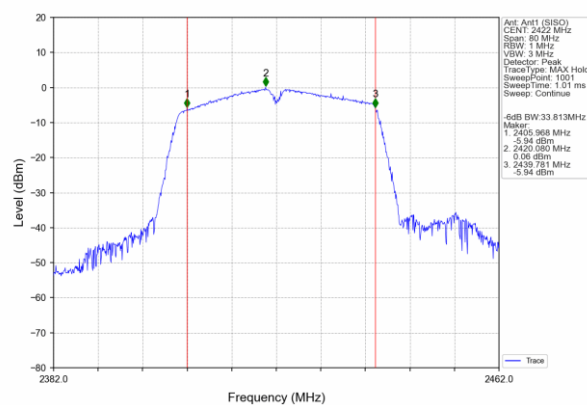




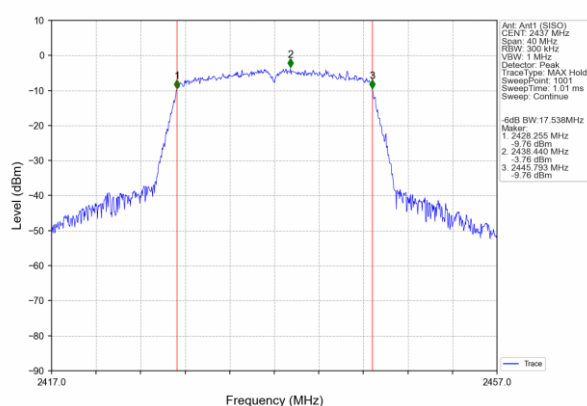
802.11n HT20



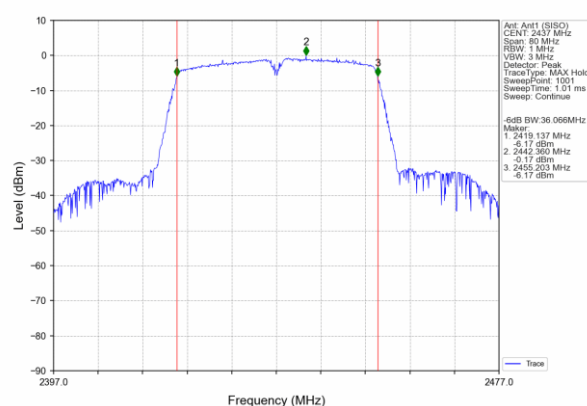
802.11n HT40



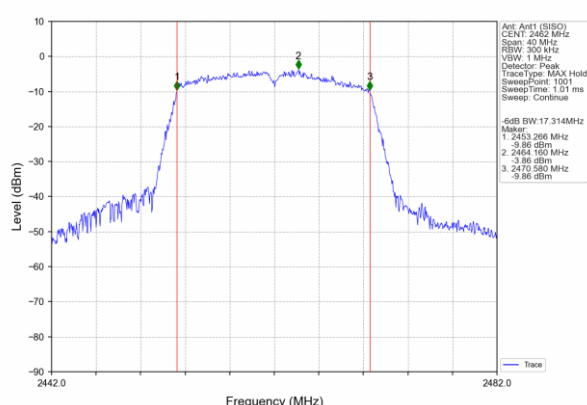
2412MHz



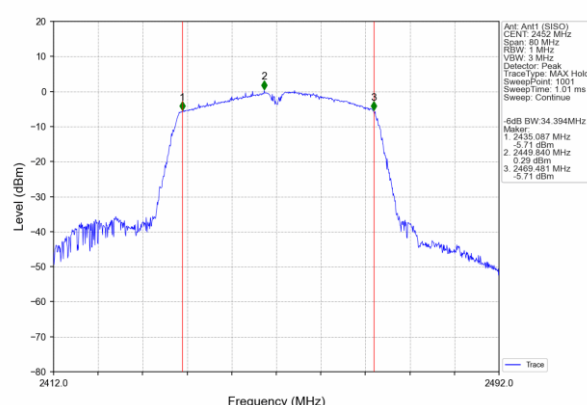
2422MHz



2437MHz



2437MHz



2462MHz

2452MHz



7. DUTY CYCLE TEST SIGNAL

7.1 APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1.1 TEST PROCEDURE

1. Set RBW = 10 MHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

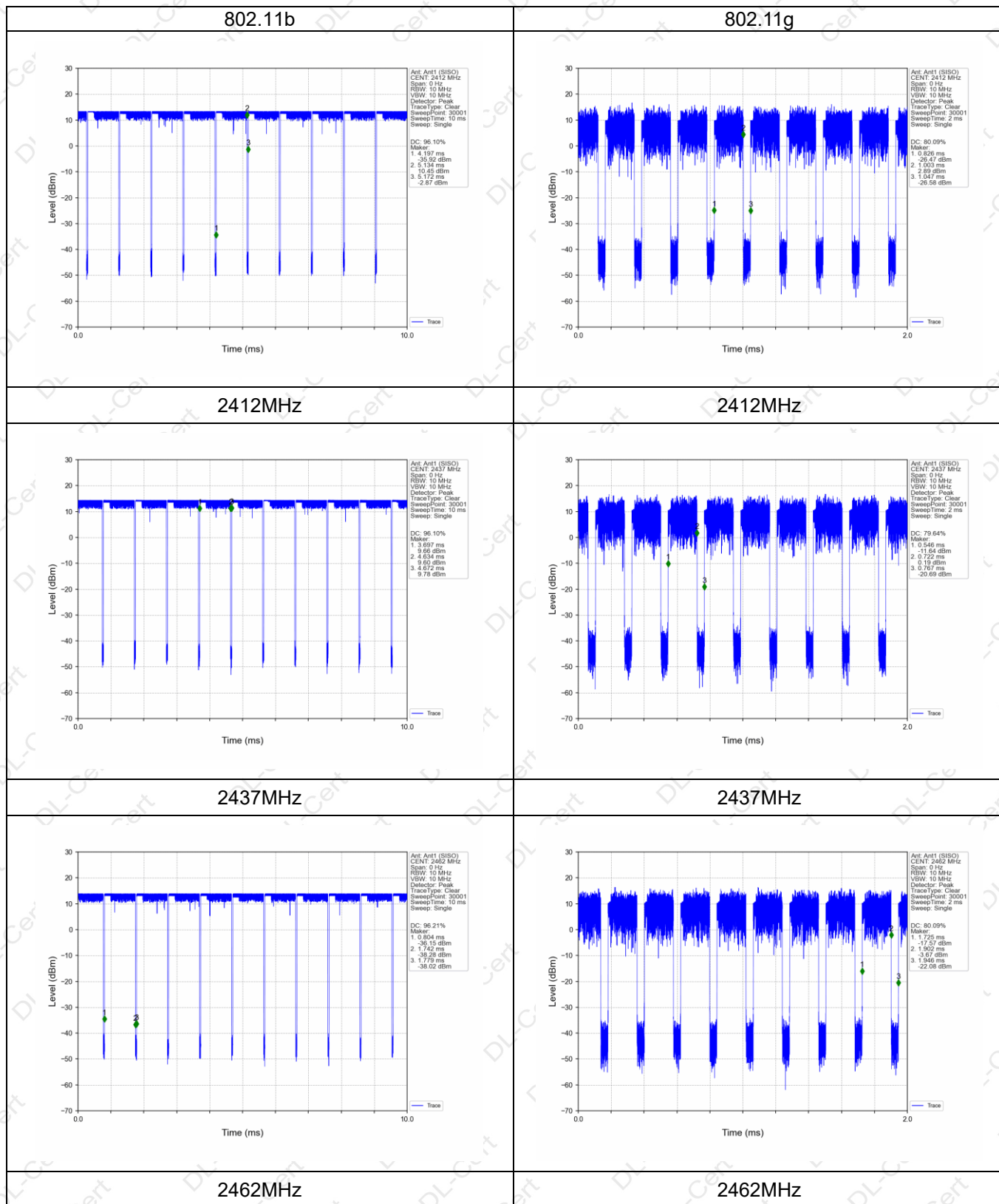


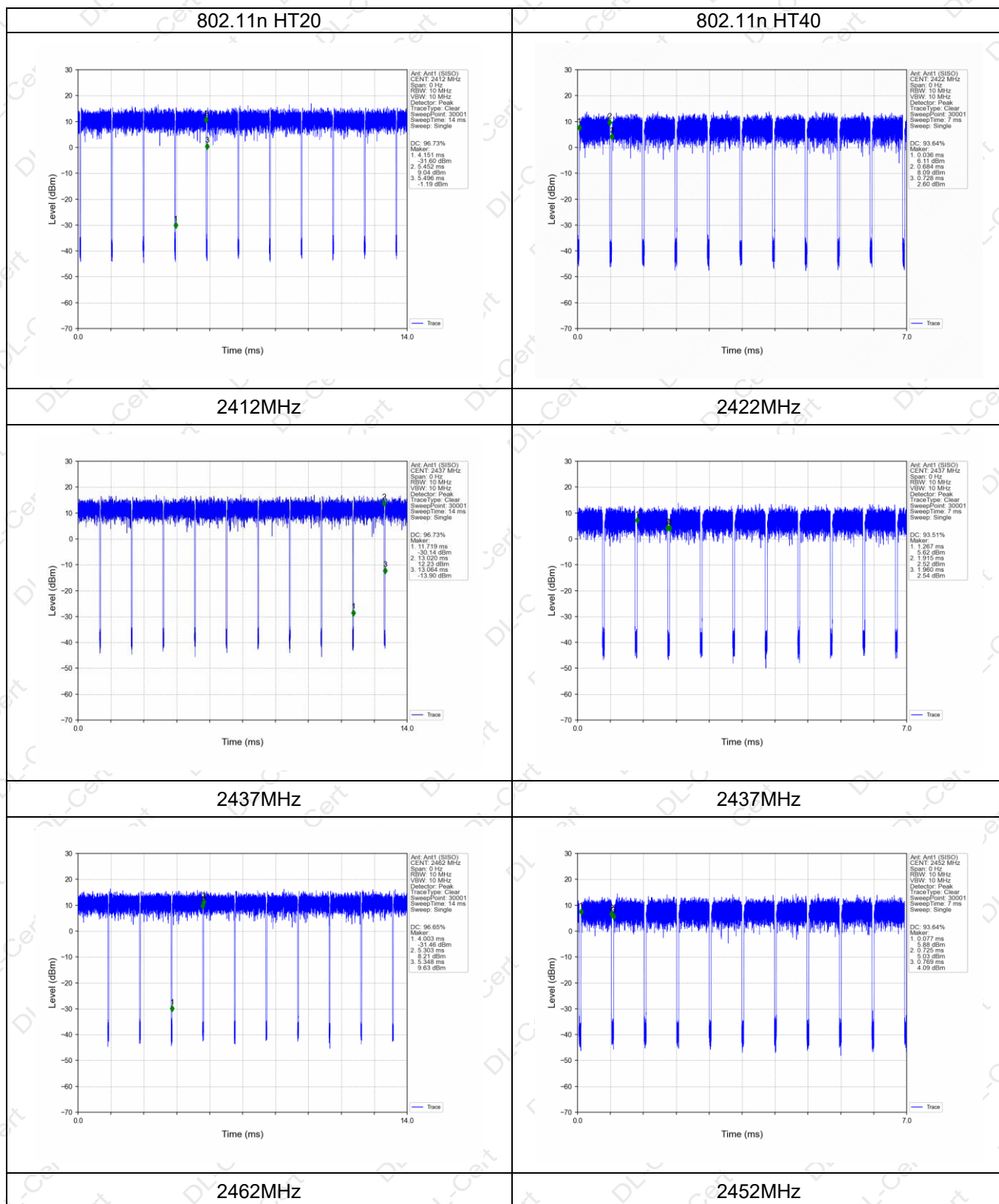
7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**7.1.5 TEST RESULTS**

Mode	Test Channel	Duty Cycle(%)	Duty Fator (dB) $10 * \log (1/ \text{Duty cycle})$
802.11b	Low	96.10	0.17
	Middle	96.10	0.17
	High	96.21	0.17
802.11g	Low	80.09	0.96
	Middle	79.64	0.99
	High	80.09	0.96
802.11n HT20	Low	96.73	0.14
	Middle	96.73	0.14
	High	96.65	0.15
802.11n HT40	Low	93.64	0.29
	Middle	93.51	0.29
	High	93.64	0.29







8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

The EUT antenna is Internal Antenna, It comply with the standard requirement.

9. TEST SEUUP PHOTO

Reference to the appendix I for details.

10. EUT PHOTO

Reference to the appendix II for details.

***** END OF REPORT *****