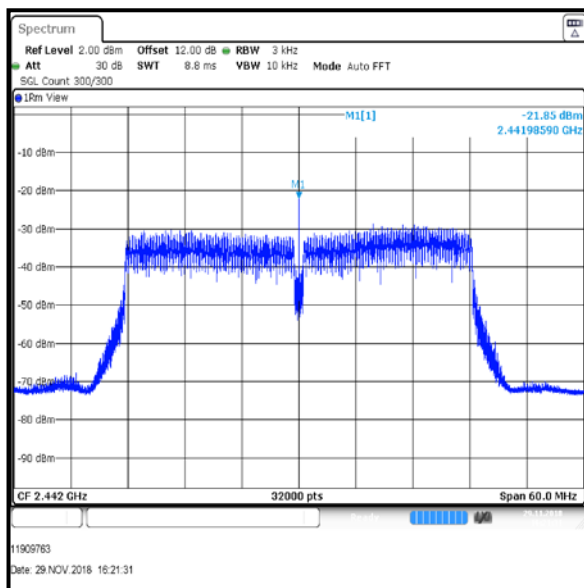
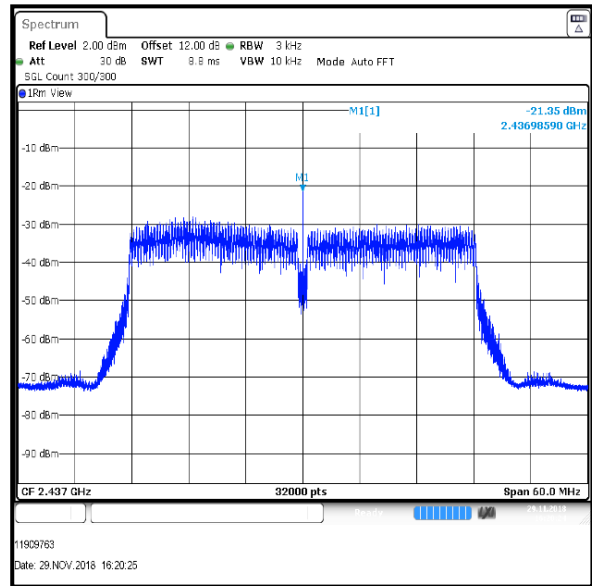
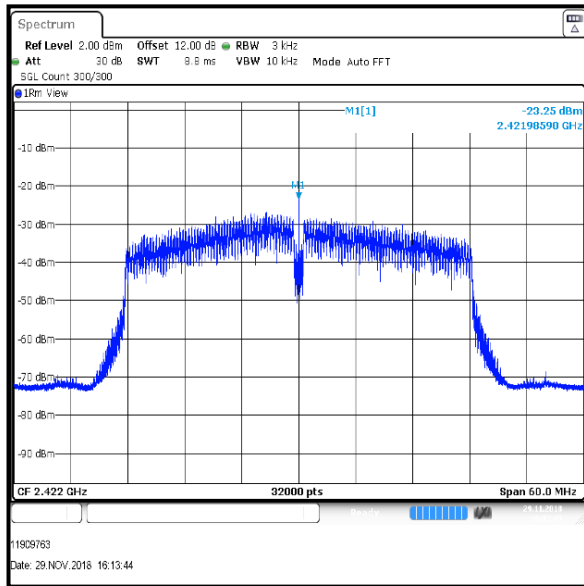
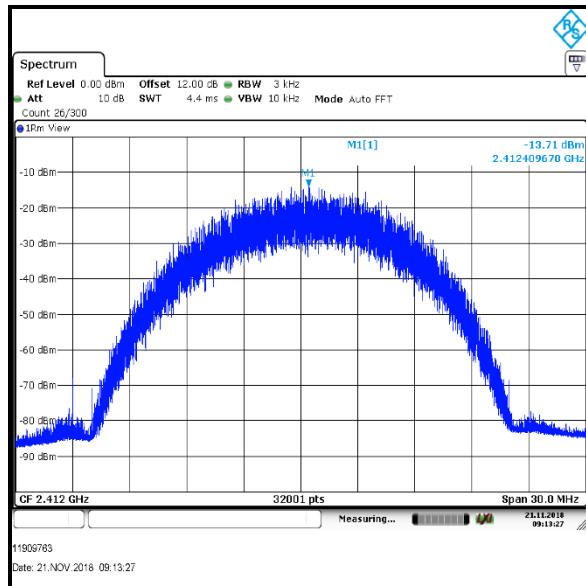
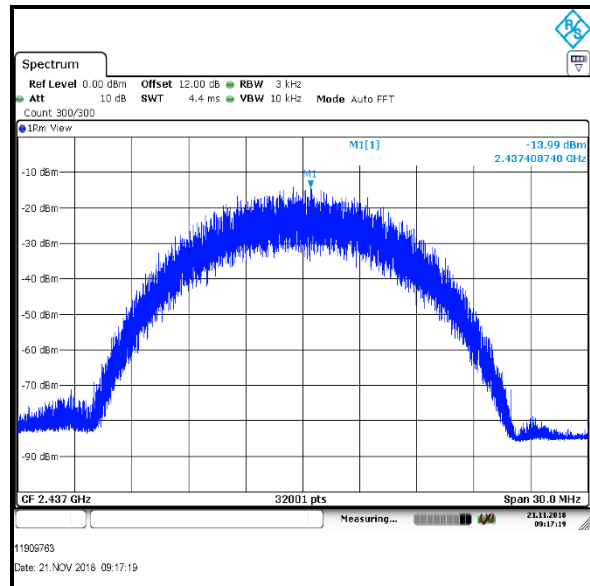
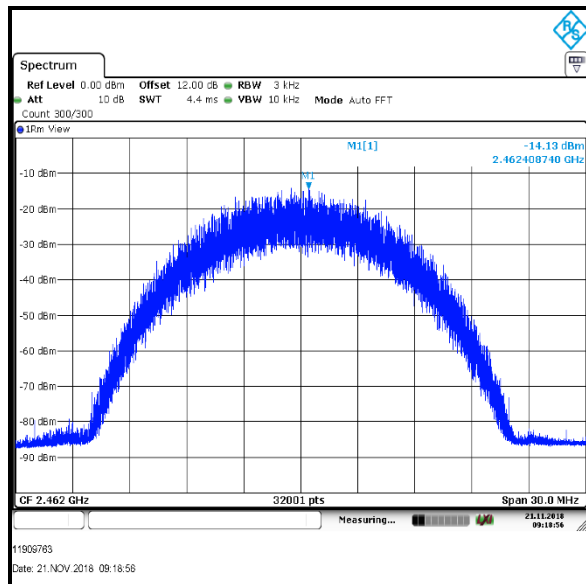


Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 4 / PWL 12 / 9 dBi Antenna Group**

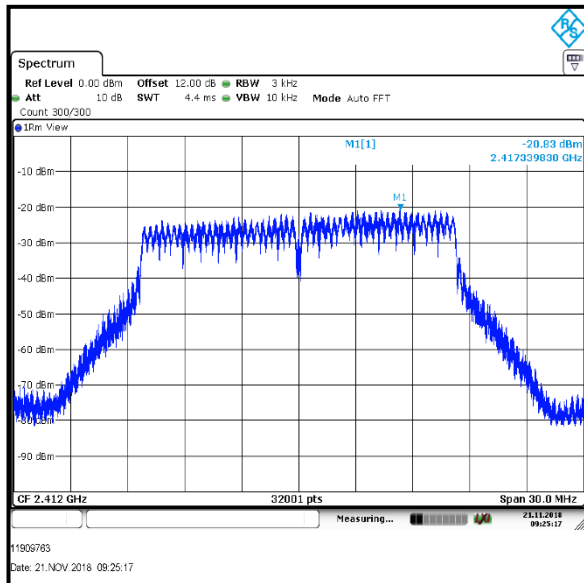
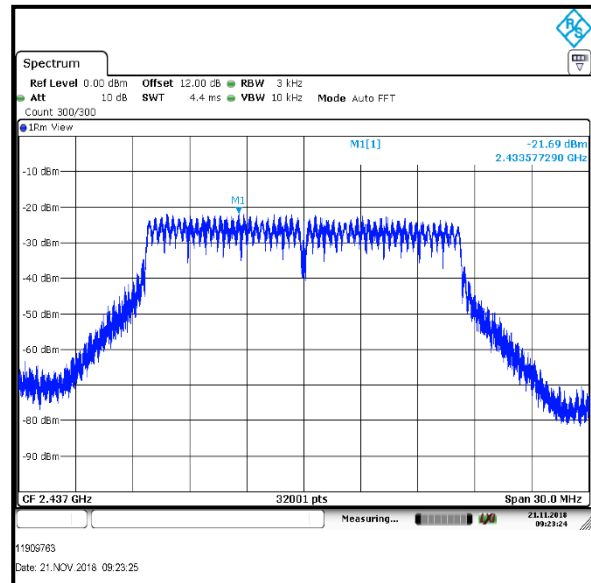
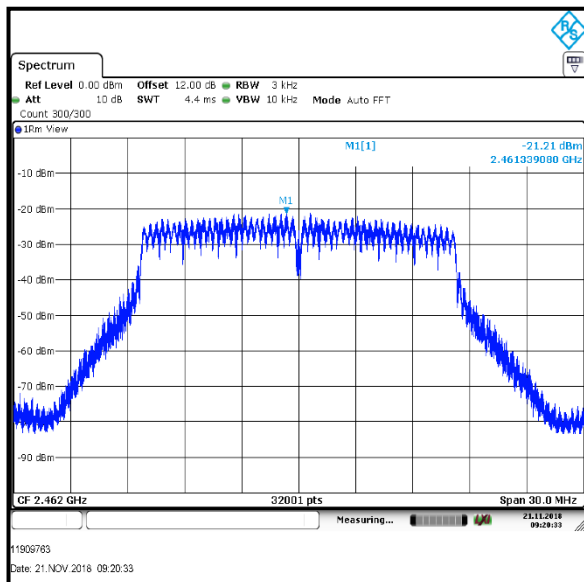
Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / SISO / Port 1 / PWL 11/ 14 dBi Antenna Group**

Channel	Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-13.7	8.0	21.7	Complied
Middle	-13.9	8.0	21.9	Complied
Top	-14.1	8.0	22.1	Complied

**Bottom Channel****Middle Channel****Top Channel****Result: Pass**

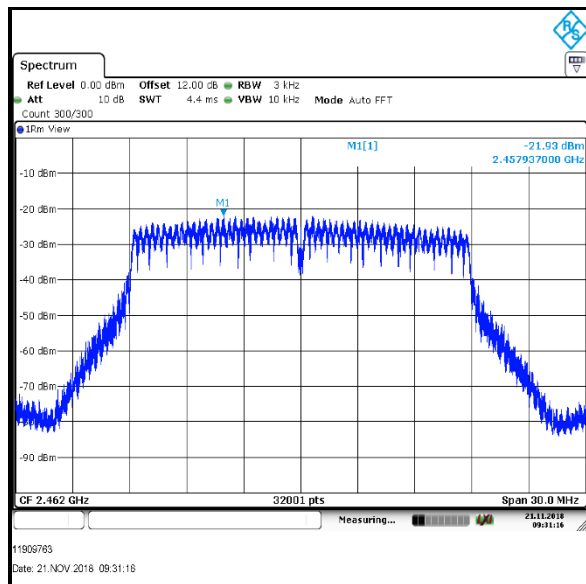
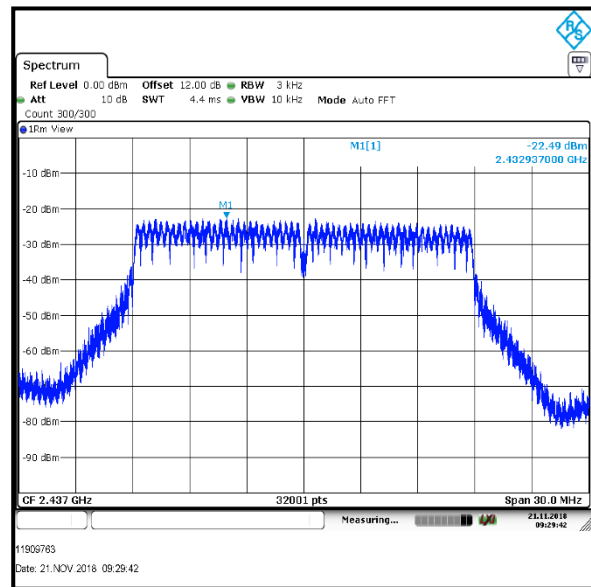
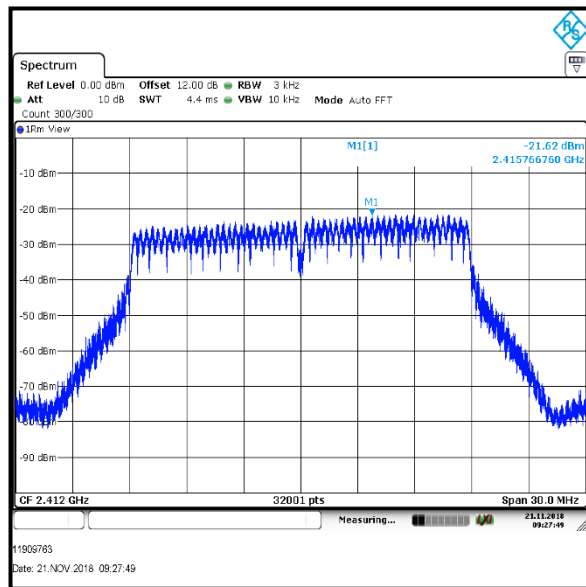
Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / SISO / Port 1 / PWL 11/ 14 dBi Antenna Group**

Channel	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Limit (dBm/3 kHz)	Margin (dB)	Result
Bottom	-20.8	0.2	-20.6	8.0	28.6	Complied
Middle	-21.6	0.2	-21.4	8.0	29.4	Complied
Top	-21.2	0.2	-21.0	8.0	29	Complied

**Bottom Channel****Middle Channel****Top Channel****Result: Pass**

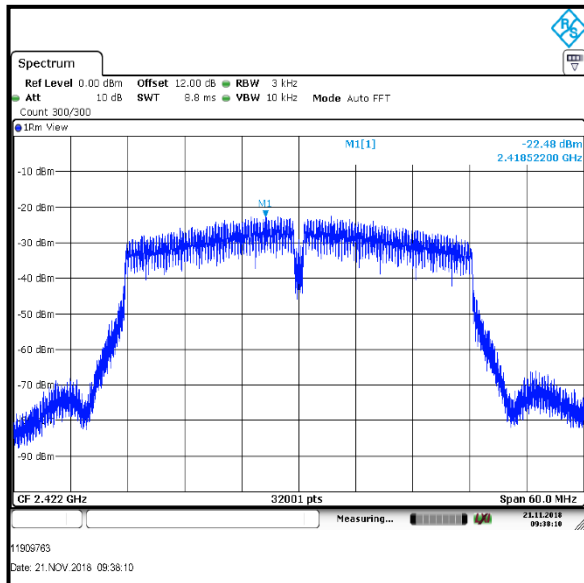
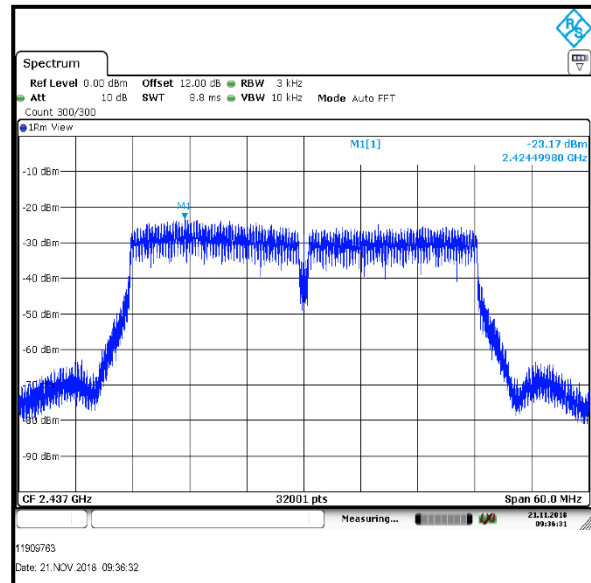
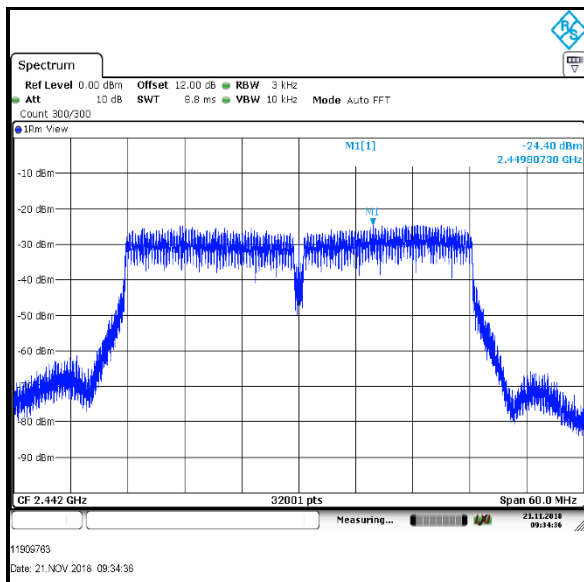
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / SISO / Port 1 / PWL 11/ 14 dBi Antenna Group**

Channel	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Limit (dBm/3 kHz)	Margin (dB)	Result
Bottom	-21.6	0.4	-21.2	8.0	29.2	Complied
Middle	-22.4	0.4	-22.0	8.0	30	Complied
Top	-21.9	0.4	-21.5	8.0	29.5	Complied

**Result: Pass**

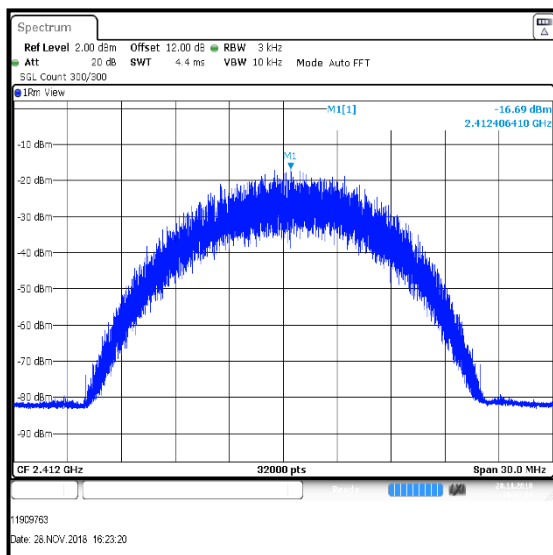
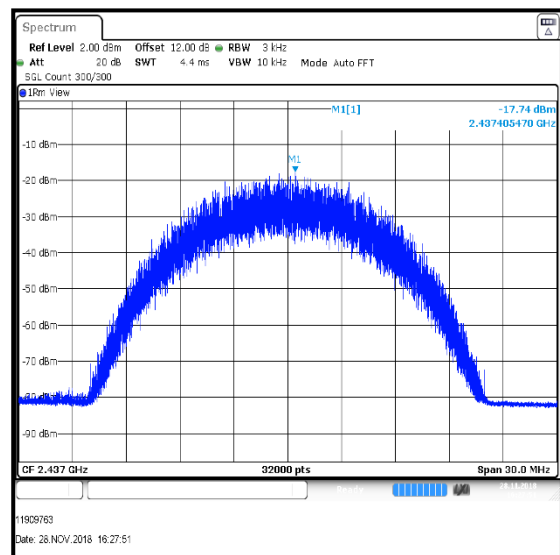
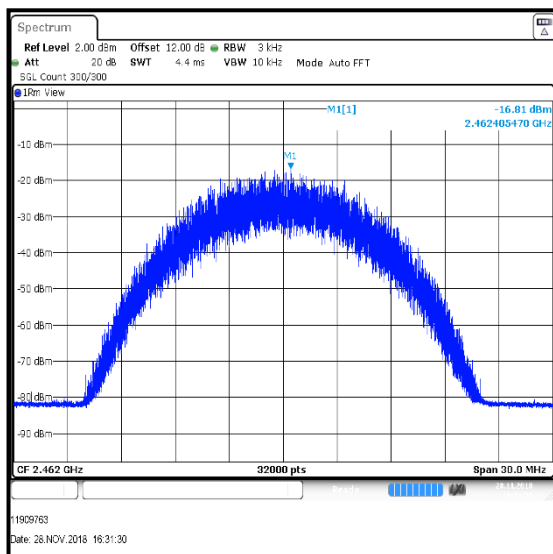
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / SISO / Port 1 / PWL 11/ 14 dBi Antenna Group**

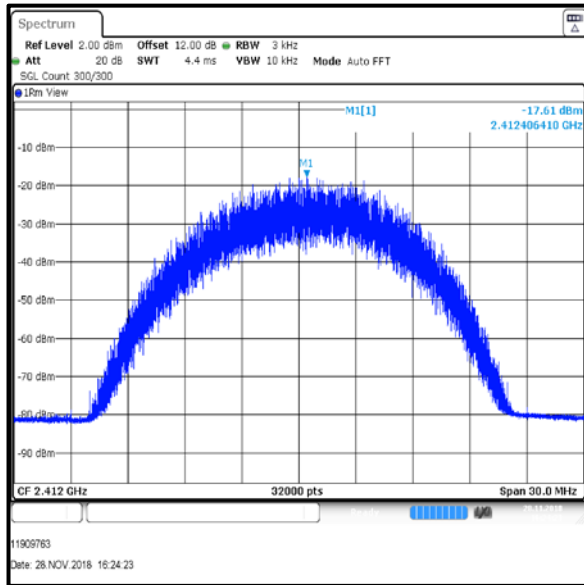
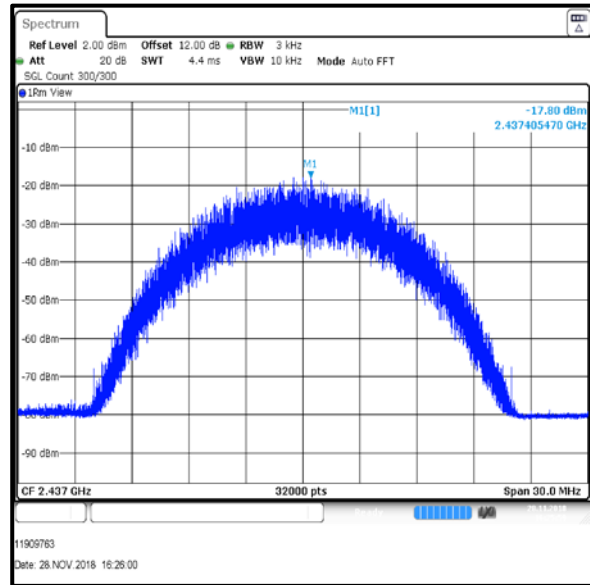
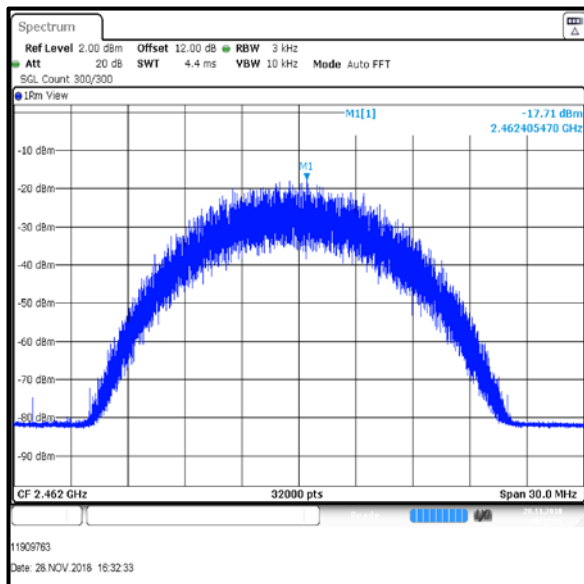
Channel	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Limit (dBm/3 kHz)	Margin (dB)	Result
Bottom	-22.4	0.6	-23.8	8.0	31.8	Complied
Middle	-23.1	0.6	-22.5	8.0	30.5	Complied
Top	-24.4	0.6	-23.8	8.0	31.8	Complied

**Bottom Channel****Middle Channel****Top Channel****Result: Pass**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1+2 / PWL 10/ 14 dBi Antenna Group**

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Port 1+2 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-16.7	-17.6	-14.1	8.0	22.1	Complied
Middle	-17.7	-17.8	-14.7	8.0	22.7	Complied
Top	-16.8	-17.7	-14.2	8.0	22.2	Complied

Result: Pass**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1 / PWL 10/ 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

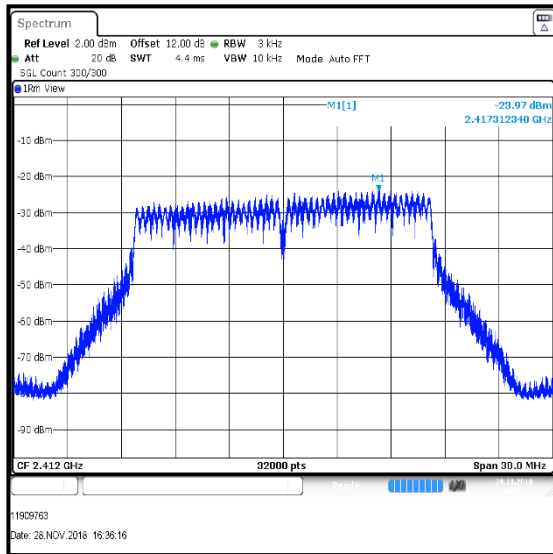
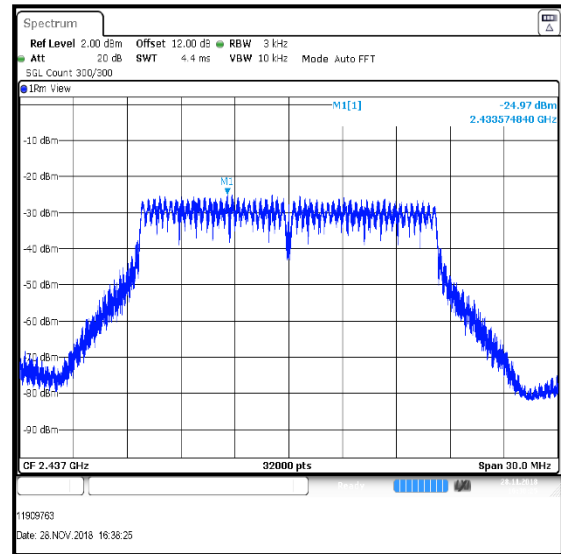
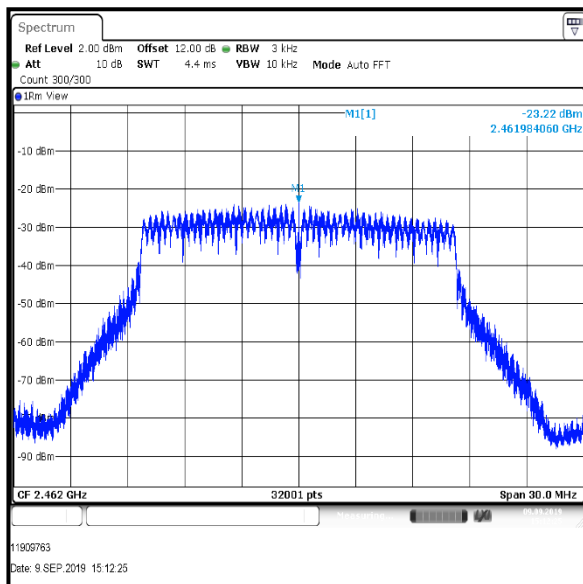
Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 2 / PWL 10/ 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

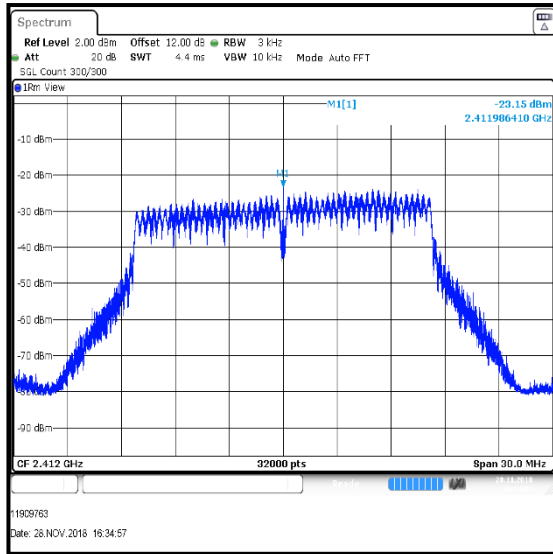
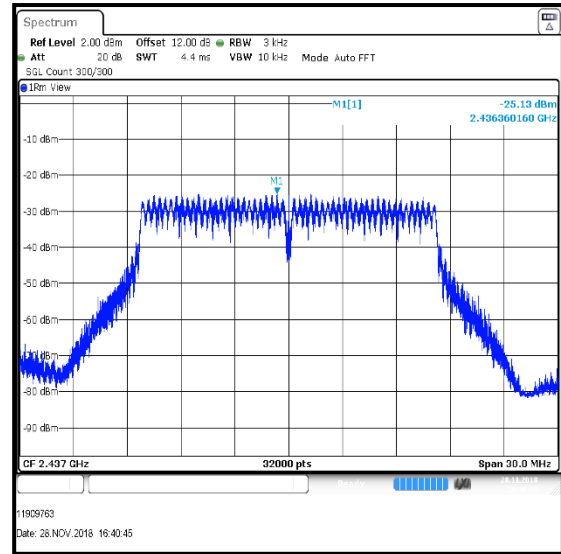
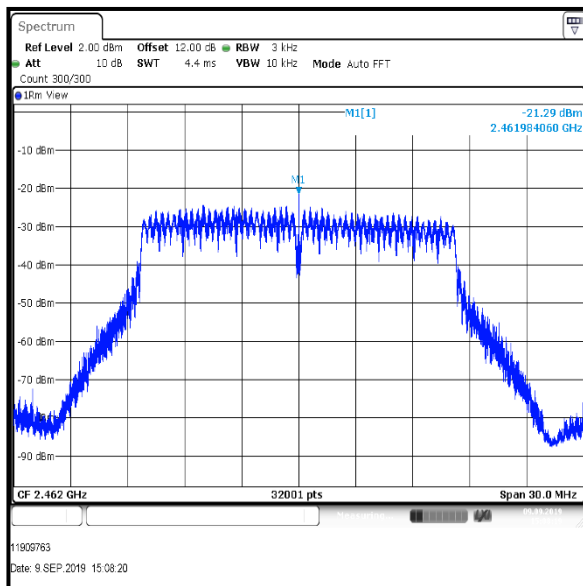
Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1+2 / PWR 10 / 14 dBi Antenna Group**

Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-24.0	0.2	-23.8	-23.2	0.2	-23.0
Middle	-25.0	0.2	-24.8	-25.1	0.2	-24.9
Top	-23.2	0.2	-23.0	-21.3	0.2	-21.1

Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Port 1+2 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-23.8	-23.0	-20.4	8.0	28.4	Complied
Middle	-24.8	-24.9	-21.8	8.0	29.8	Complied
Top	-23.0	-21.1	-18.9	8.0	26.9	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1/ PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

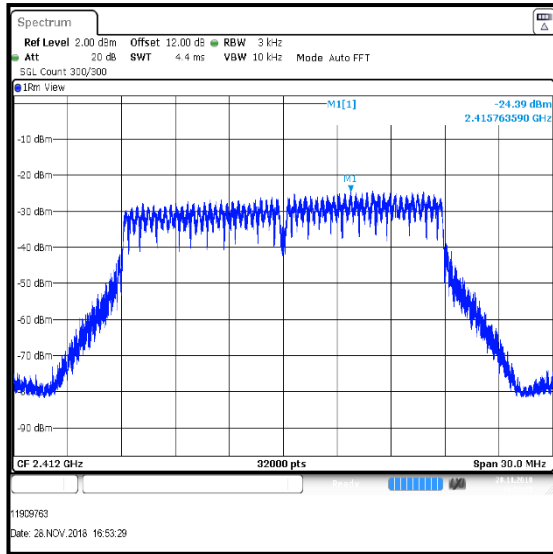
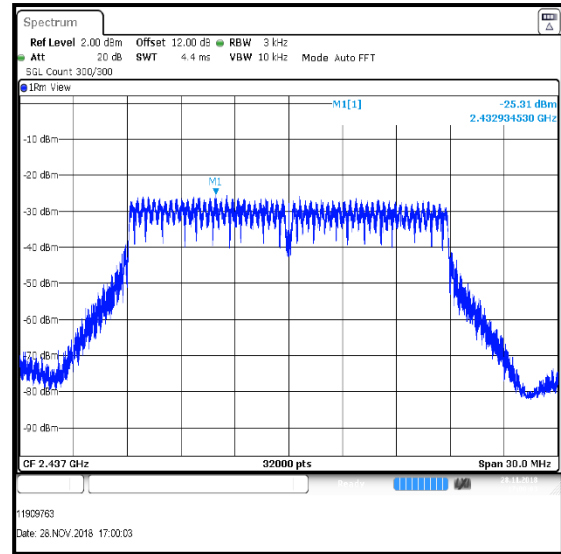
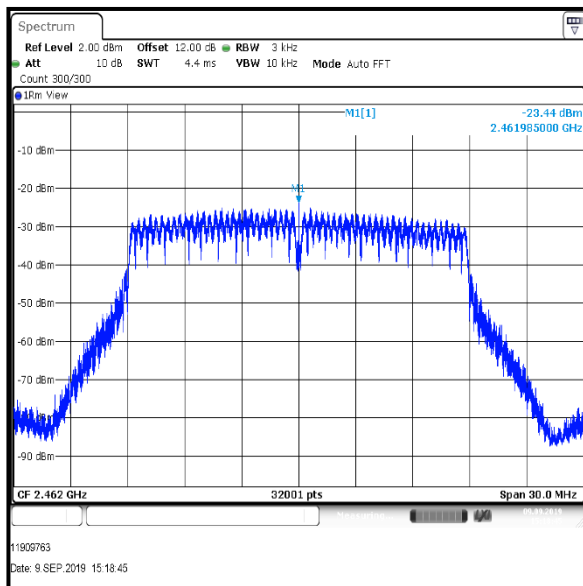
Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 2 / PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

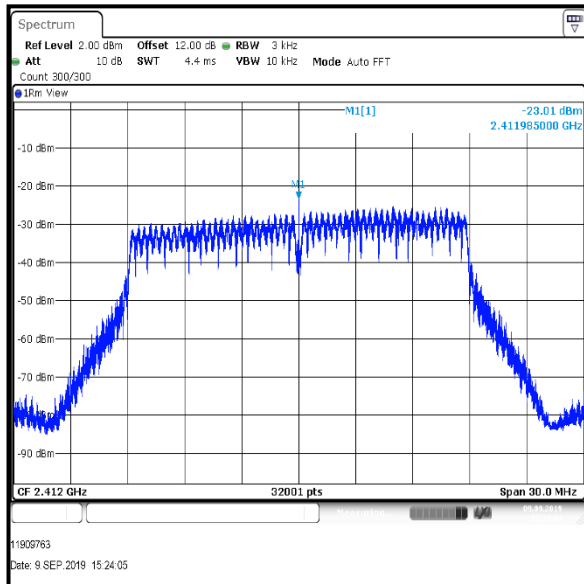
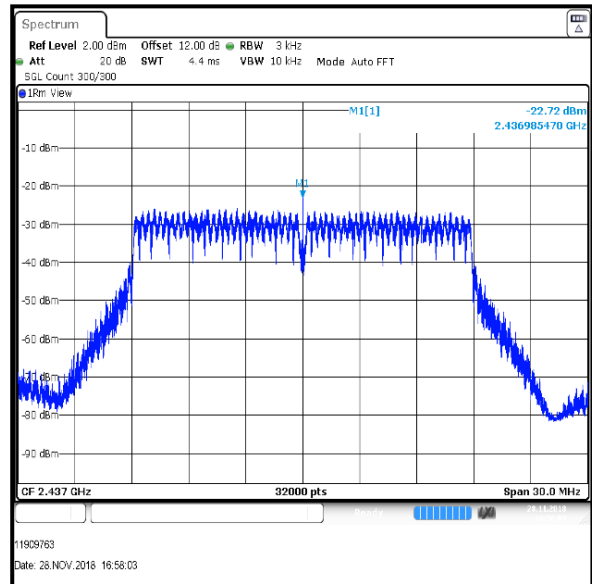
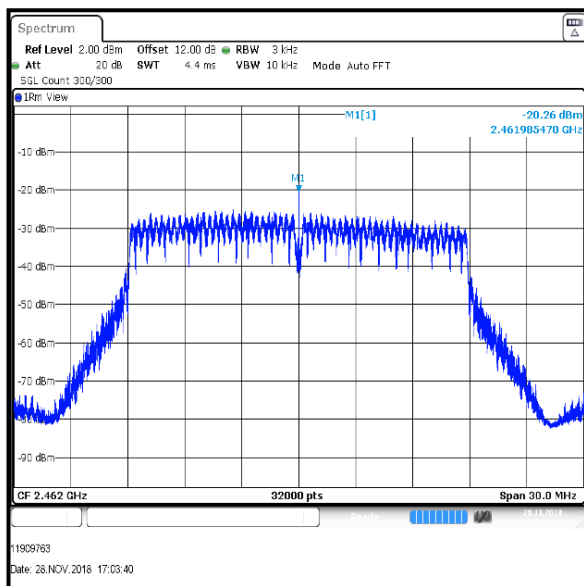
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1+2 / PWL 10 / 14 dBi Antenna Group**

Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-24.4	0.4	-24.0	-23.0	0.4	-22.6
Middle	-25.3	0.4	-24.9	-22.7	0.4	-22.3
Top	-23.4	0.4	-23.0	-20.3	0.4	-19.9

Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Port 1+2 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-24.0	-22.6	-20.2	8.0	28.2	Complied
Middle	-24.9	-22.3	-20.4	8.0	28.4	Complied
Top	-23.0	-19.9	-18.2	8.0	26.2	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1 / PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

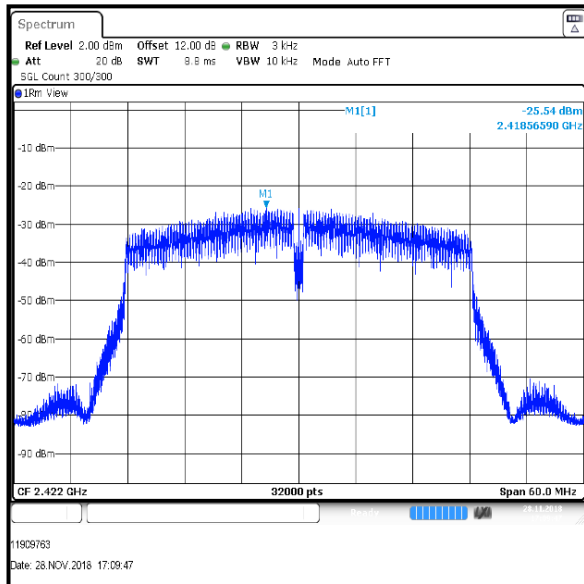
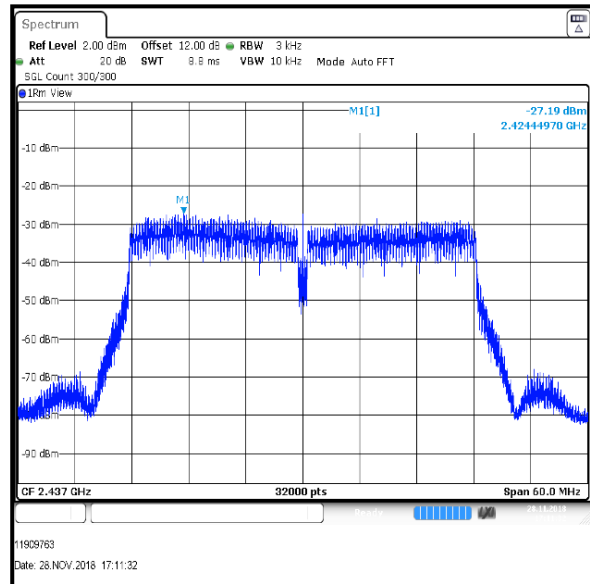
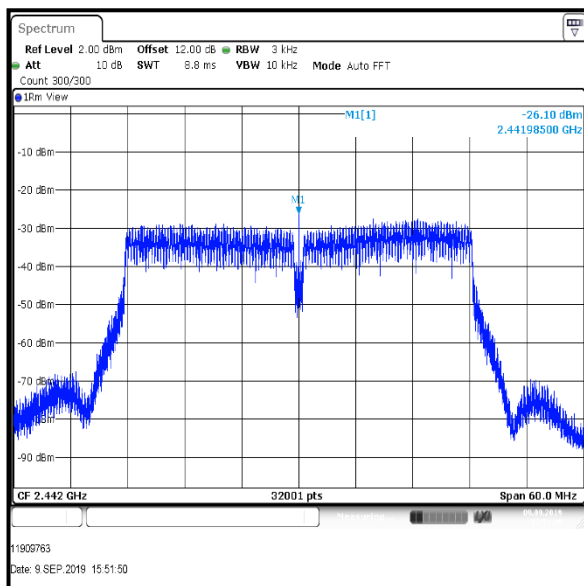
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 2 / PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

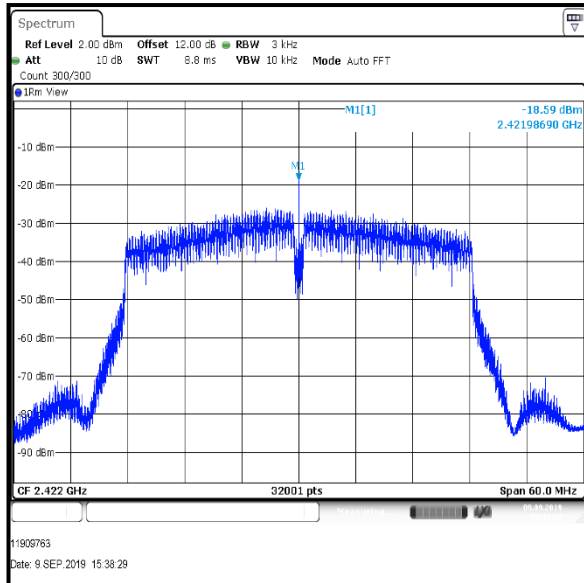
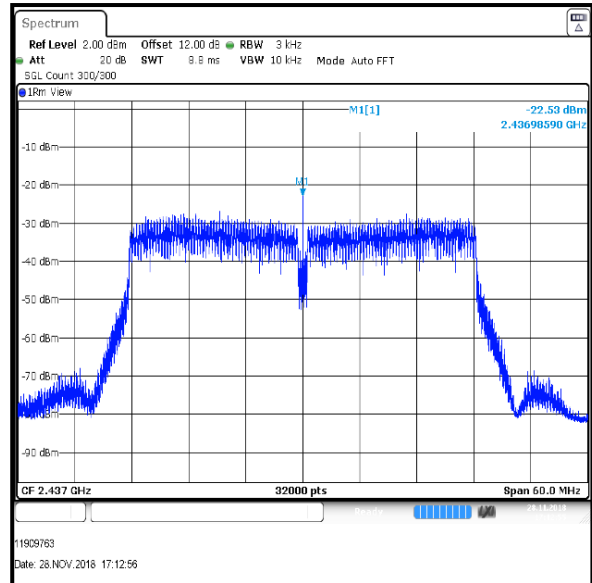
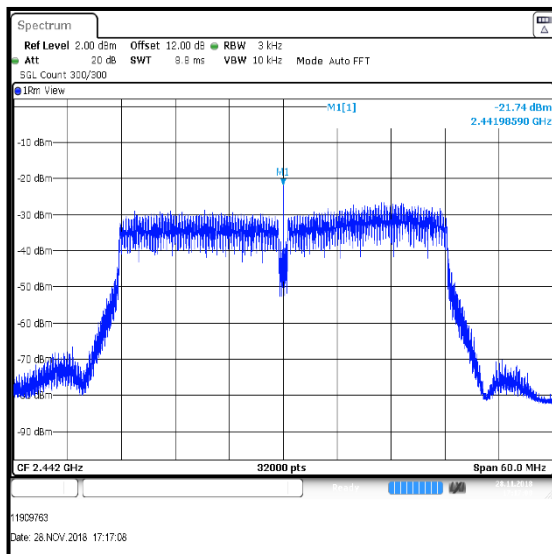
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1+2 / PWL 10 / 14 dBi Antenna Group**

Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-25.5	0.6	-24.9	-18.6	0.6	-18.0
Middle	-27.2	0.6	-26.6	-22.5	0.6	-21.9
Top	-26.1	0.6	-25.5	-21.7	0.6	-21.1

Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Port 1+ 2 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-24.9	-18.0	-17.2	8.0	25.2	Complied
Middle	-26.6	-21.9	-20.7	8.0	28.7	Complied
Top	-25.5	-21.1	-19.8	8.0	27.8	Complied

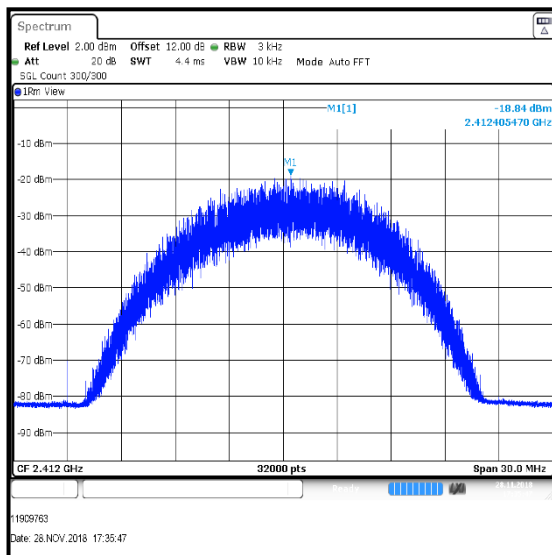
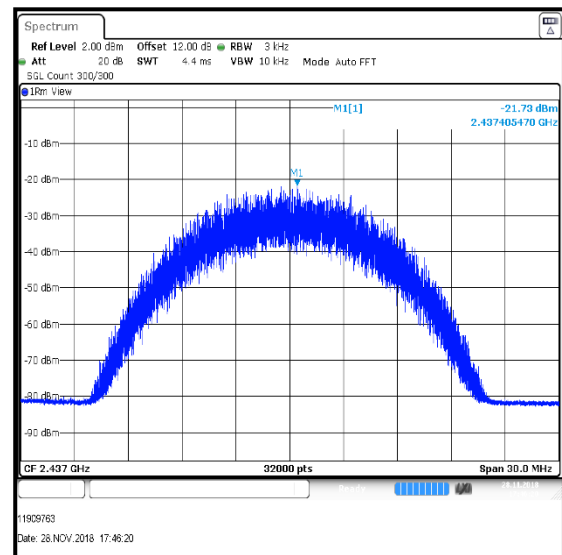
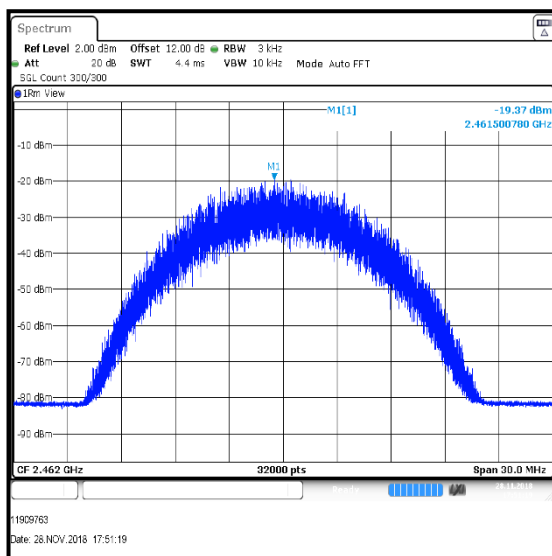
Result: Pass

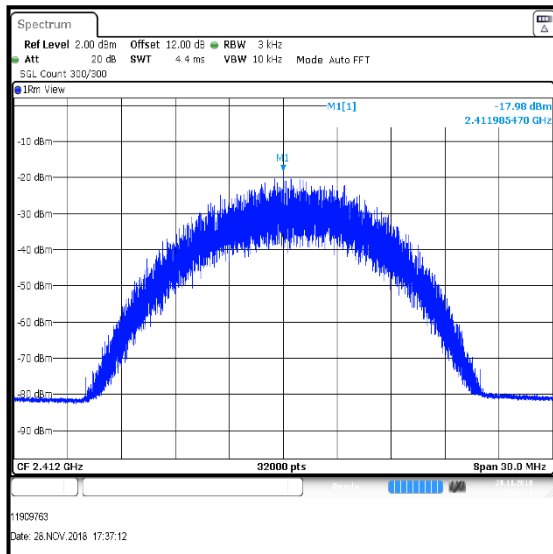
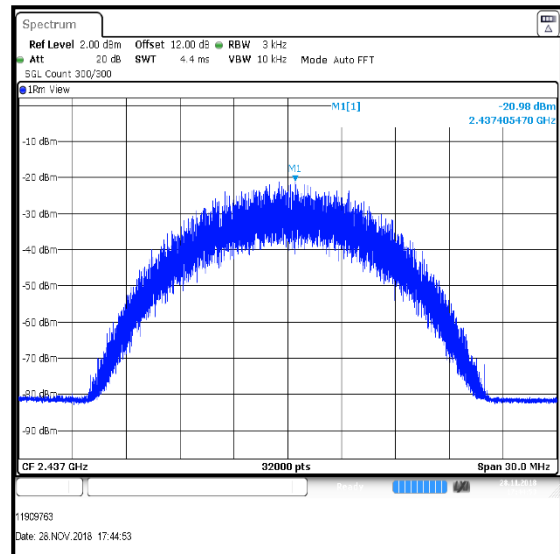
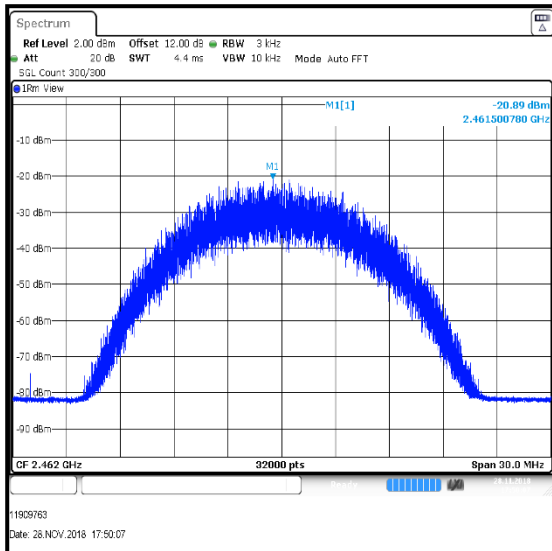
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1 / PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

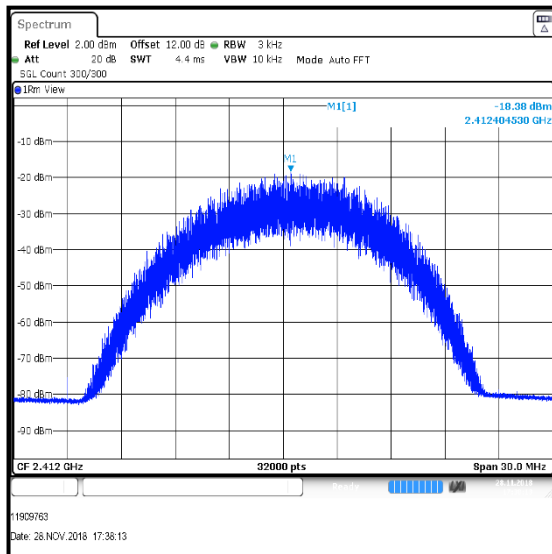
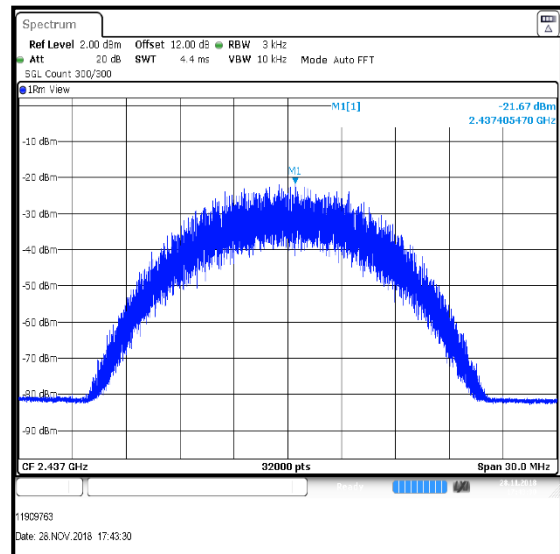
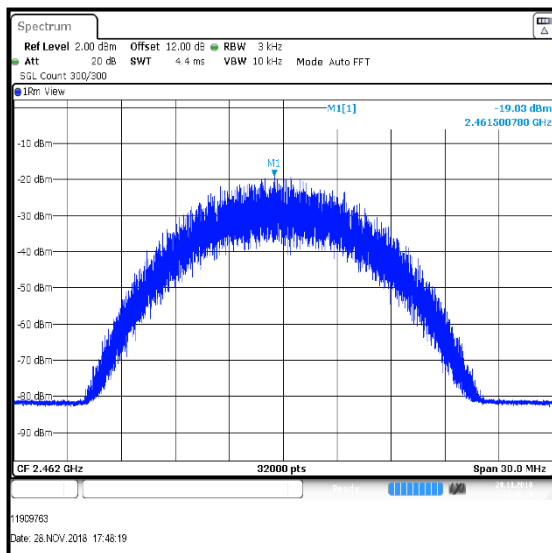
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 2 / PWL 10 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1+2+3 / PWL 8 / 14 dBi Antenna Group**

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Output Power Port 3 (dBm/3 kHz)	Port 1+2+3 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-18.8	-18.0	-18.4	-13.6	8.0	21.6	Complied
Middle	-21.7	-21.0	-21.7	-16.7	8.0	24.7	Complied
Top	-19.4	-20.9	-19.0	-14.9	8.0	22.9	Complied

Result: Pass**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 2 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 3 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

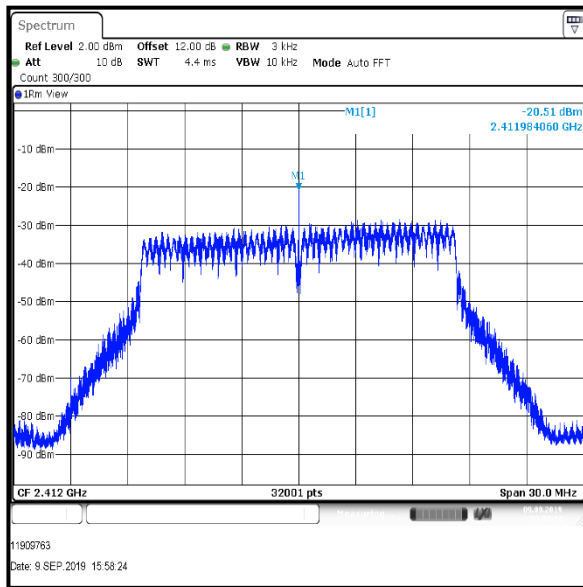
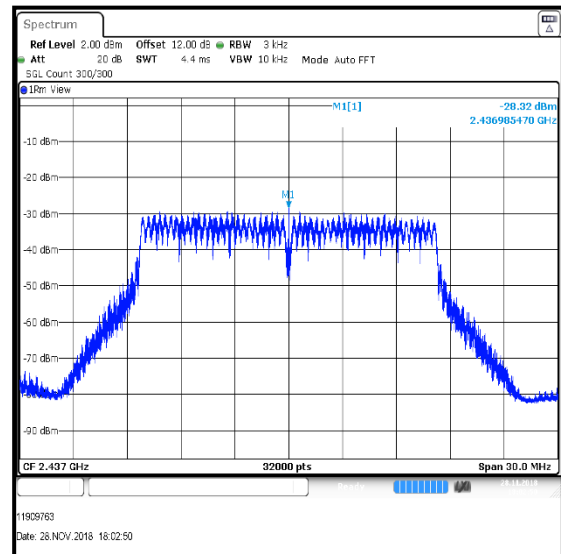
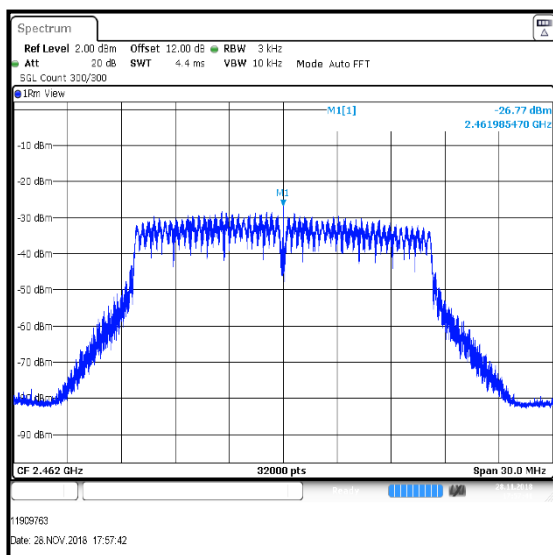
Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1+2+3 / PWL 8 / 14 dBi Antenna Group**

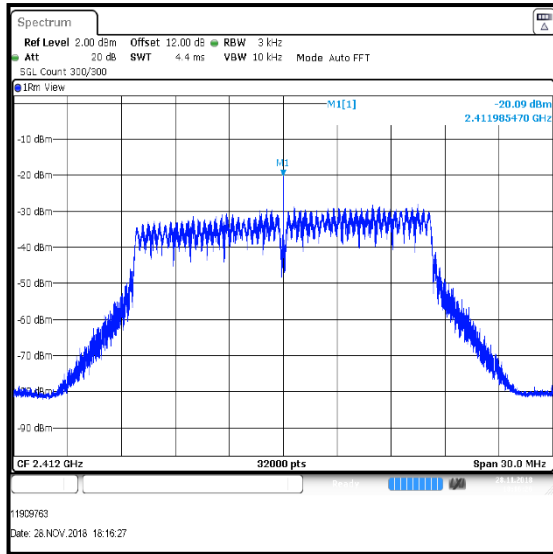
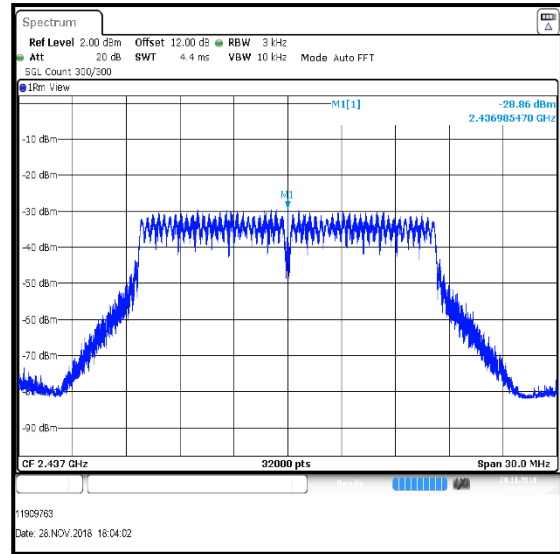
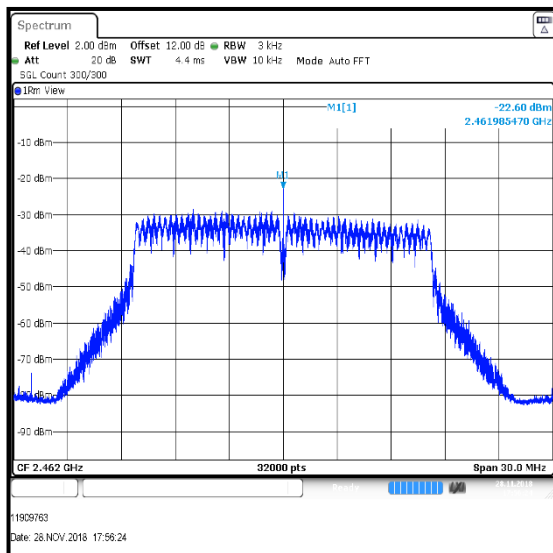
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-20.5	0.2	-20.3	-20.1	0.2	-19.9
Middle	-28.3	0.2	-28.1	-28.9	0.2	-28.7
Top	-26.8	0.2	-26.6	-22.6	0.2	-22.4

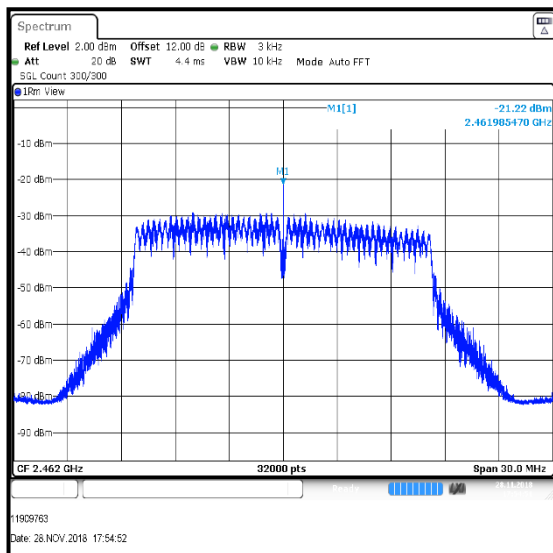
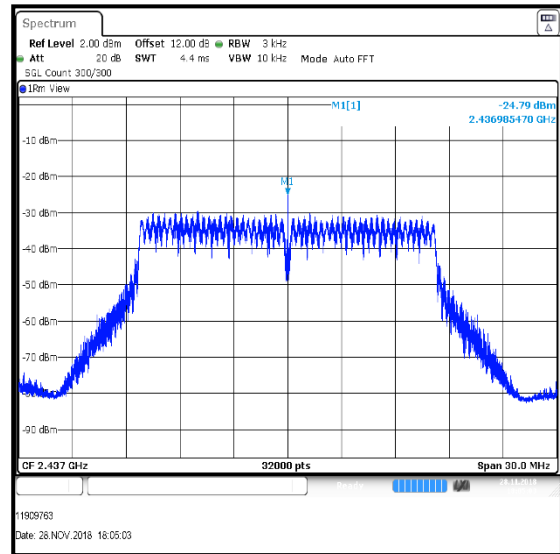
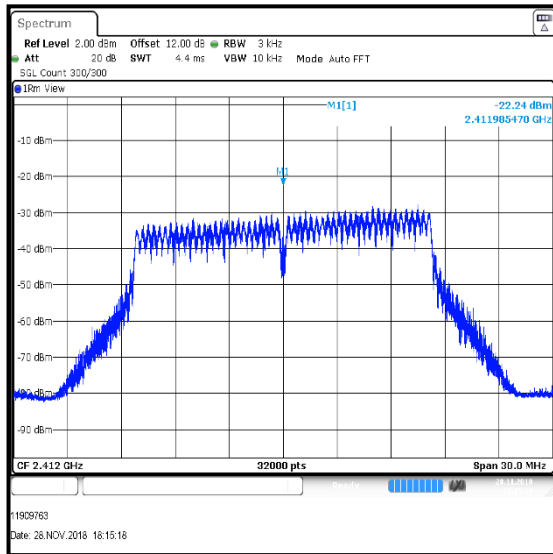
Channel	Port 3		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-22.2	0.2	-22.0
Middle	-24.8	0.2	-24.6
Top	-21.2	0.2	-21.0

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Output Power Port 3 (dBm/3 kHz)	Port 1+2+3 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-20.3	-19.9	-22.0	-15.9	8.0	23.9	Complied
Middle	-28.1	-28.7	-24.6	-22.0	8.0	30	Complied
Top	-26.6	-22.4	-21.0	-18.0	8.0	26	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 2 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 3 / PWL 8 / 14 dBi Antenna Group**

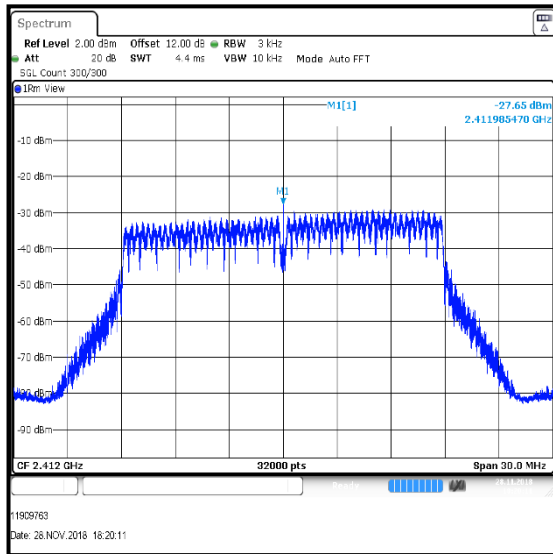
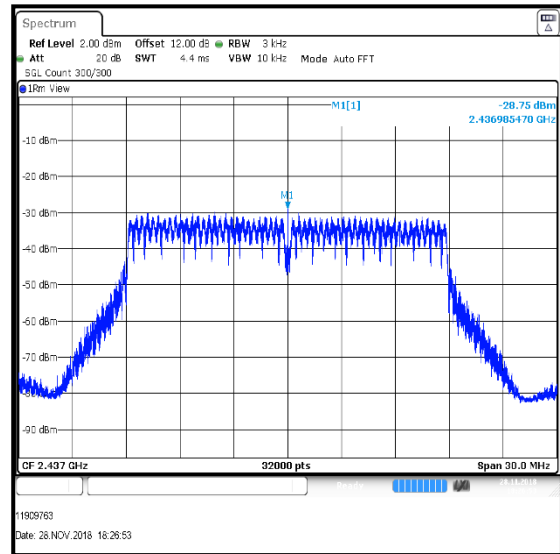
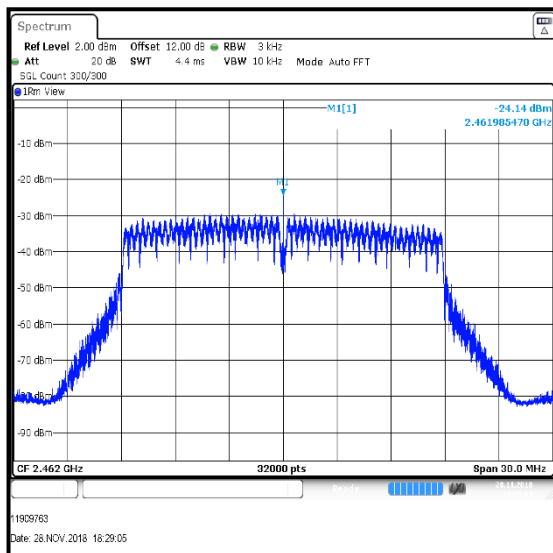
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1+2+3 / PWL 8 / 14 dBi Antenna Group**

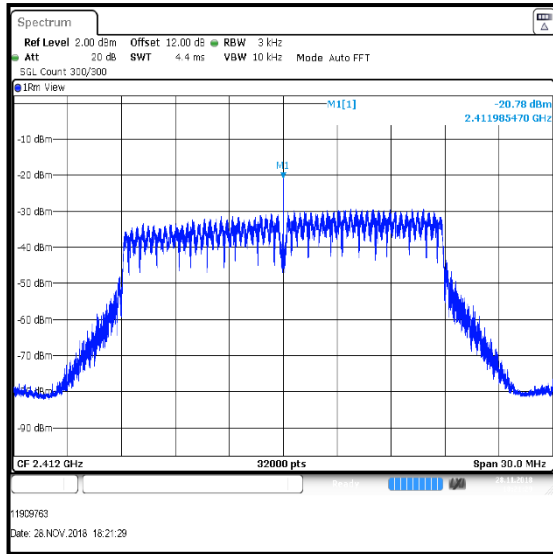
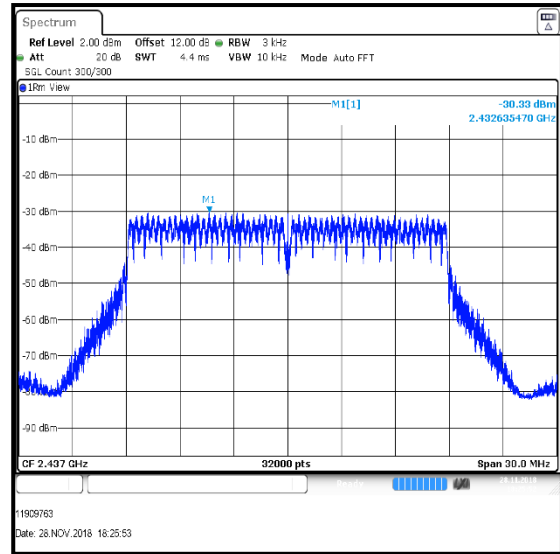
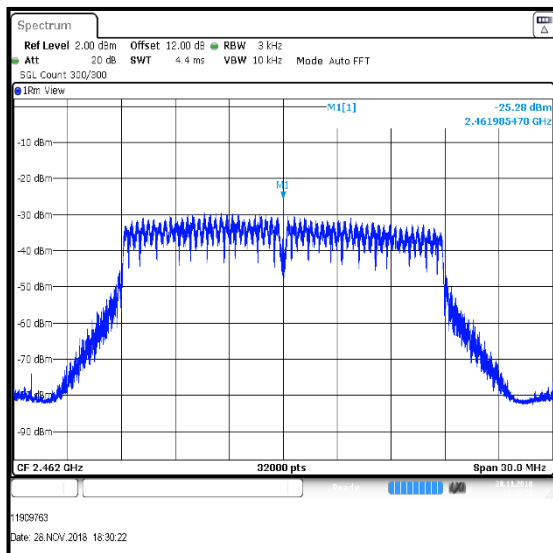
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-27.7	0.4	-27.3	-20.8	0.4	-20.4
Middle	-28.8	0.4	-28.4	-30.3	0.4	-29.9
Top	-24.1	0.4	-23.7	-25.3	0.4	-24.9

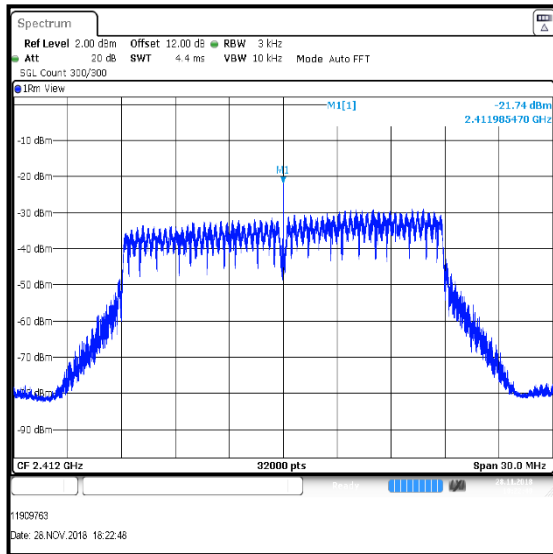
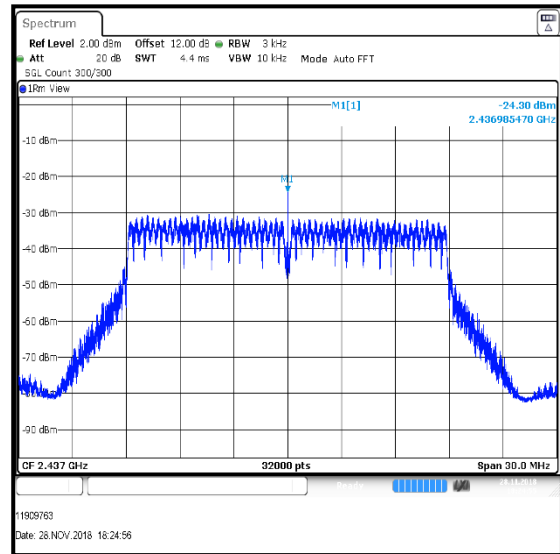
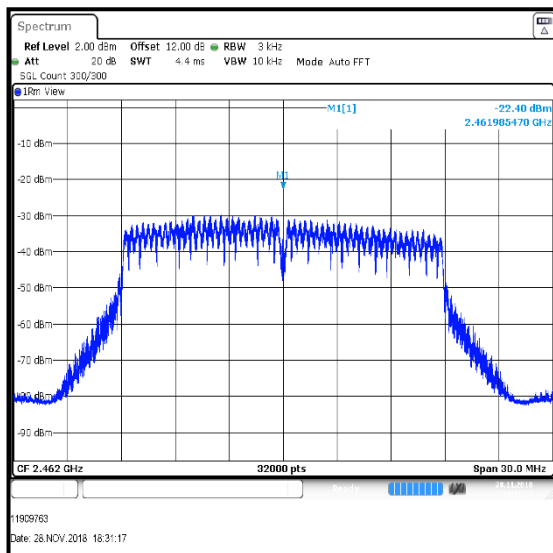
Channel	Port 3		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-21.7	0.4	-21.3
Middle	-24.3	0.4	-23.9
Top	-22.4	0.4	-22

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Output Power Port 3 (dBm/3 kHz)	Port 1+2+3 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-27.3	-20.4	-21.3	-17.4	8.0	25.4	Complied
Middle	-28.4	-29.9	-23.9	-21.8	8.0	29.8	Complied
Top	-23.7	-24.9	-22	-18.6	8.0	26.6	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 2 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 3 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

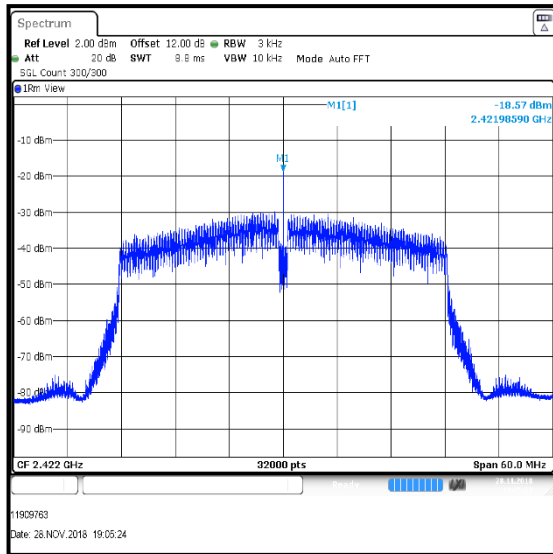
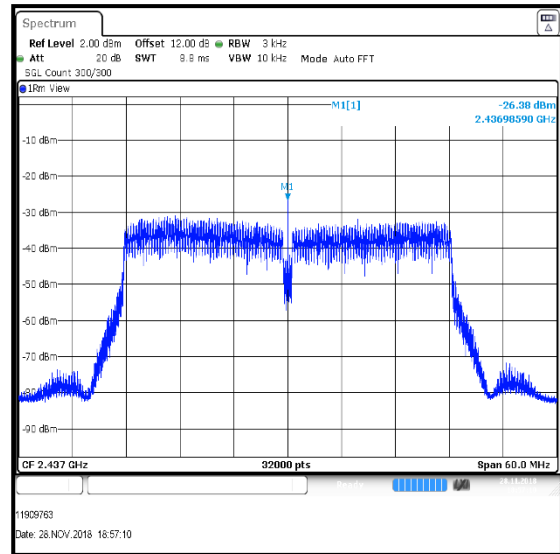
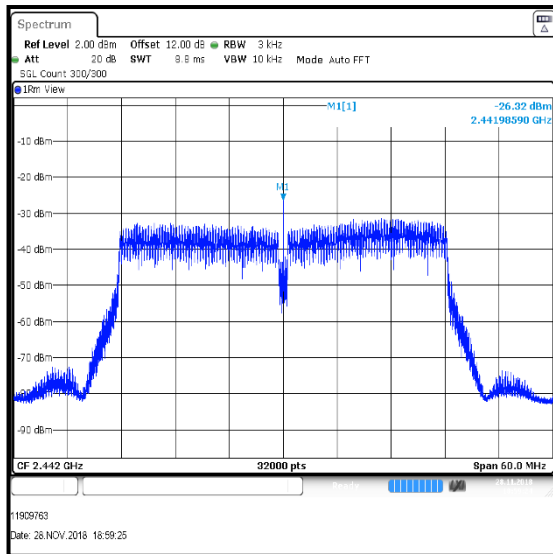
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1+2+3 / PWL 8 / 14 dBi Antenna Group**

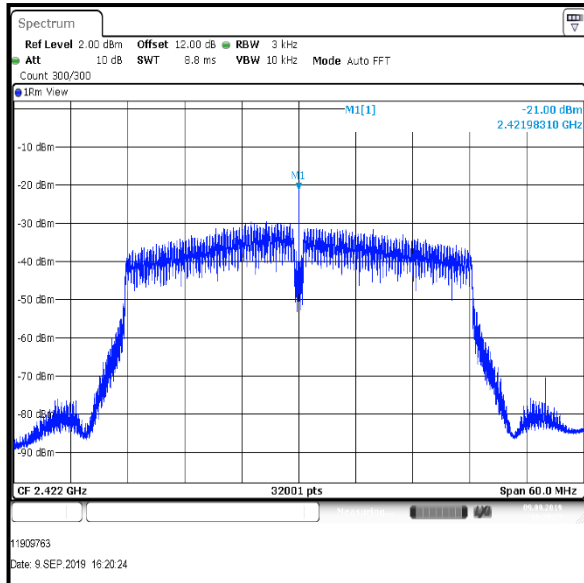
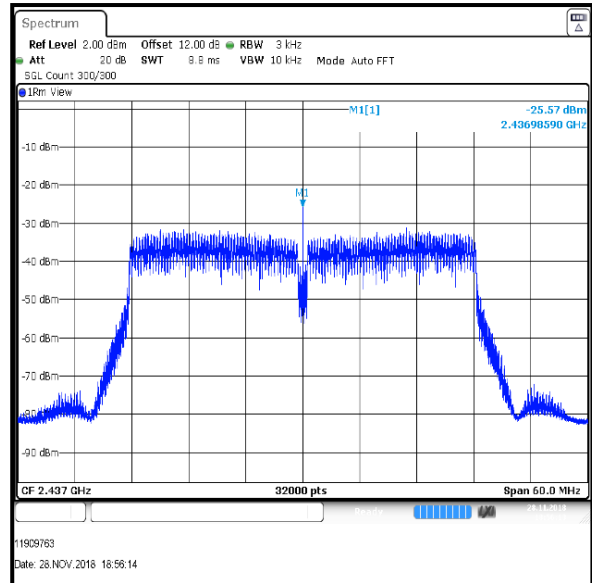
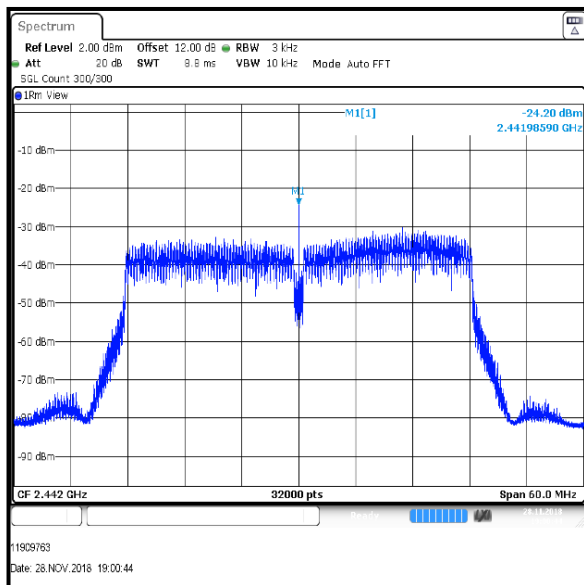
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-18.6	0.6	-18.0	-21.0	0.6	-20.4
Middle	-26.4	0.6	-25.8	-25.6	0.6	-25.0
Top	-26.3	0.6	-25.7	-24.2	0.6	-23.6

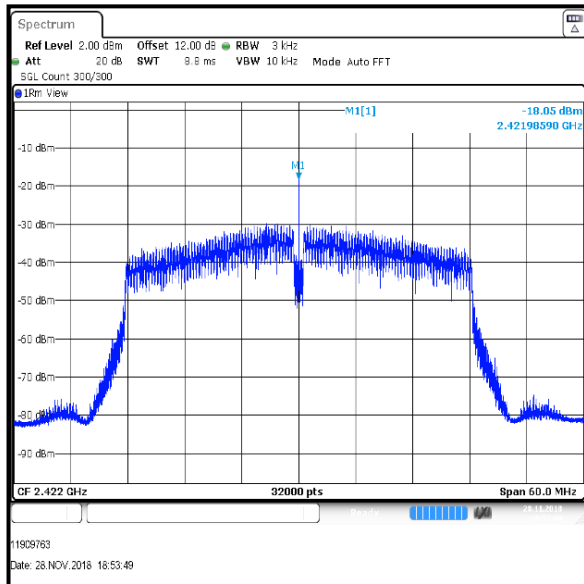
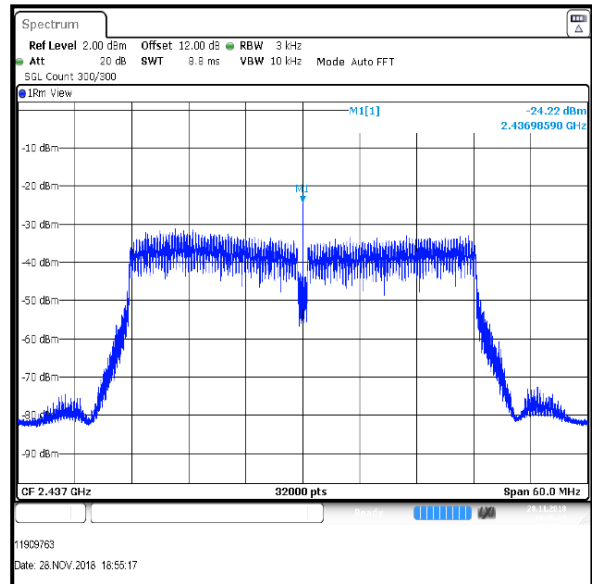
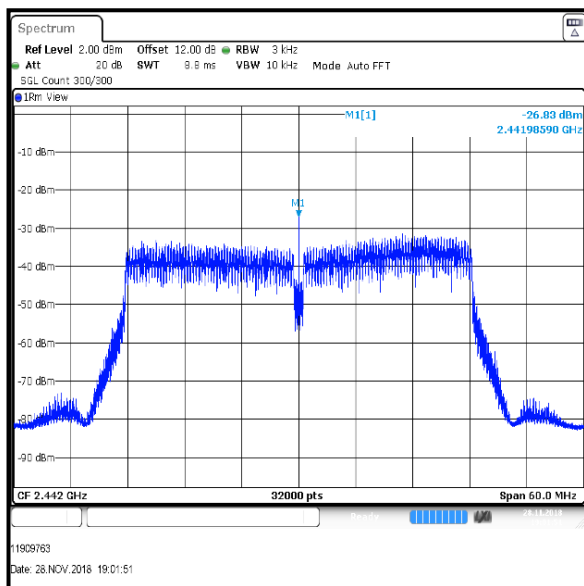
Channel	Port 3		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-18.1	0.6	-17.5
Middle	-24.2	0.6	-23.6
Top	-26.8	0.6	-26.2

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Output Power Port 3 (dBm/3 kHz)	Port 1+2+3 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-18.0	-20.4	-17.5	-13.7	8.0	21.7	Complied
Middle	-25.8	-25.0	-23.6	-19.9	8.0	27.9	Complied
Top	-25.7	-23.6	-26.2	-20.2	8.0	28.2	Complied

Result: Pass

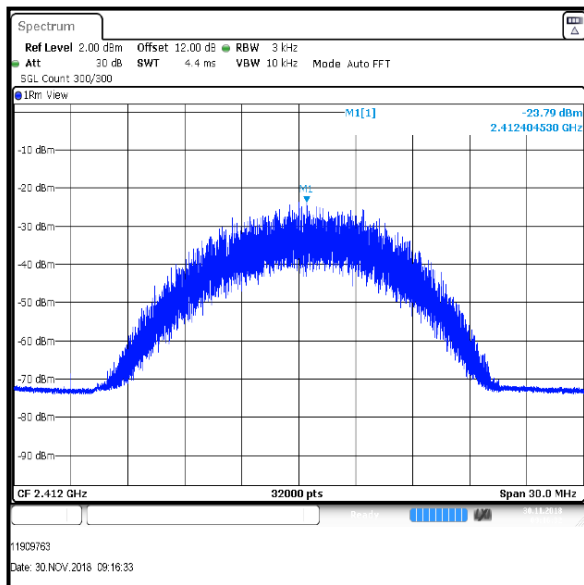
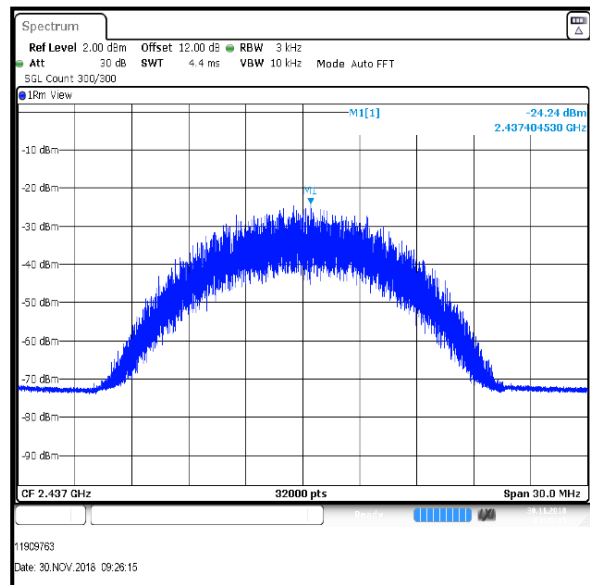
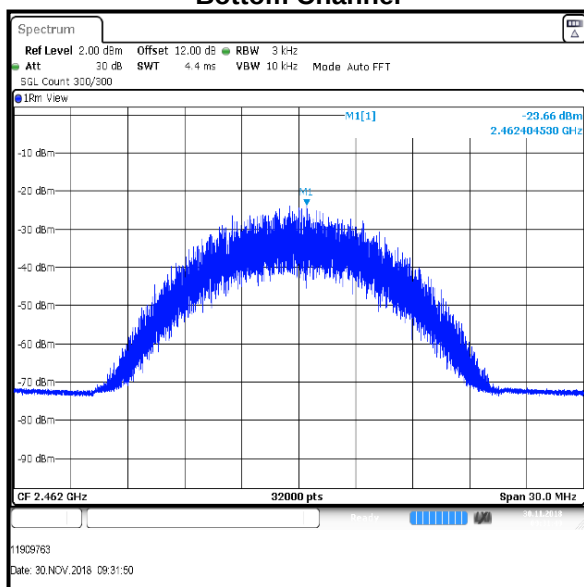
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

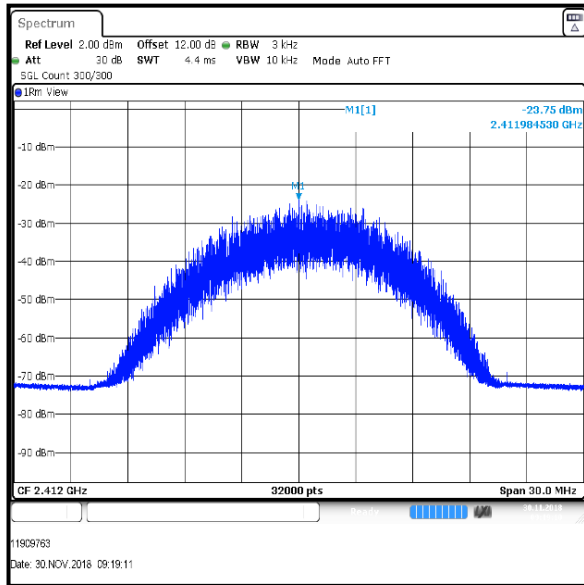
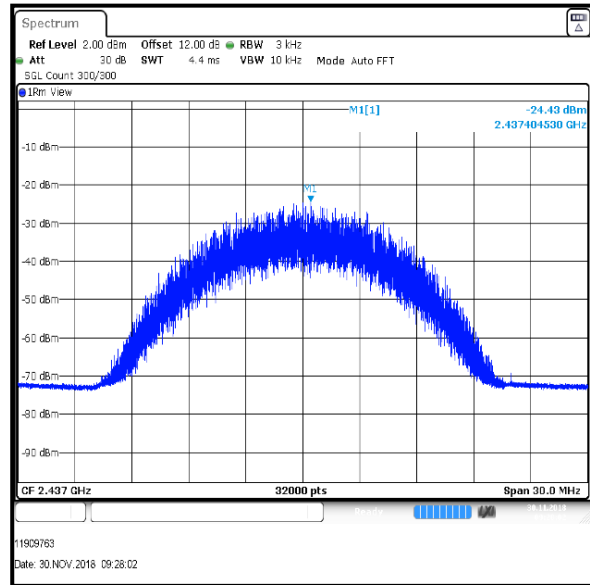
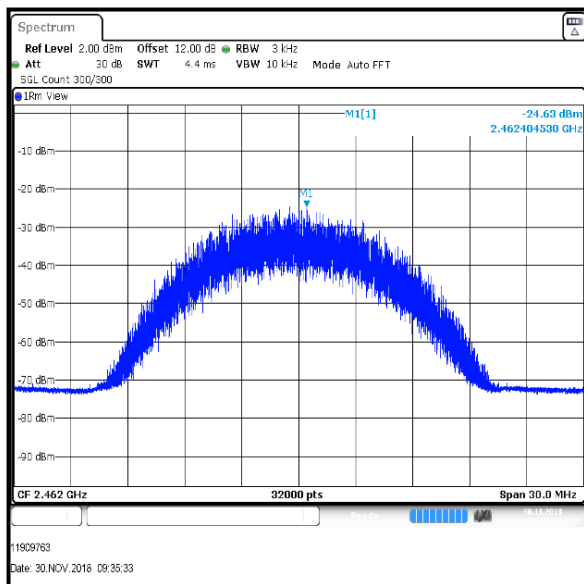
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 2 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

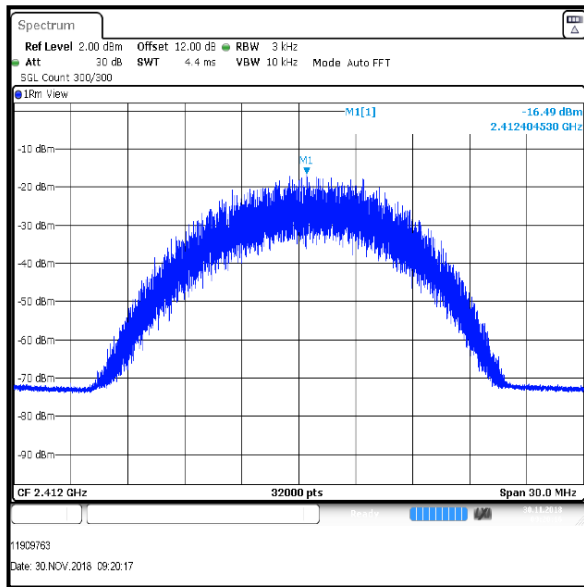
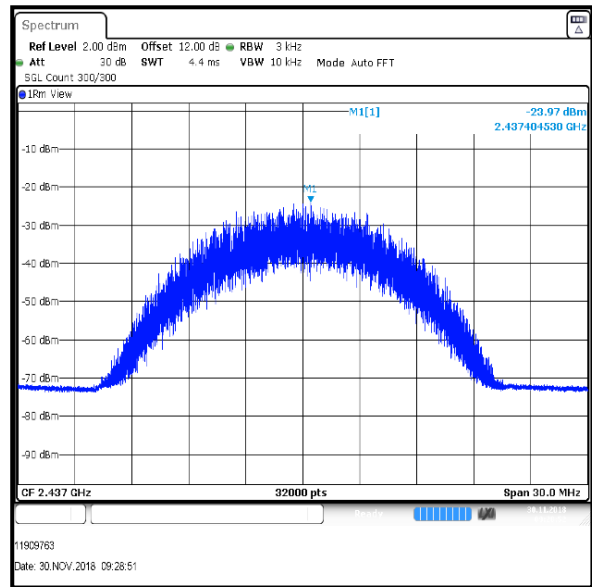
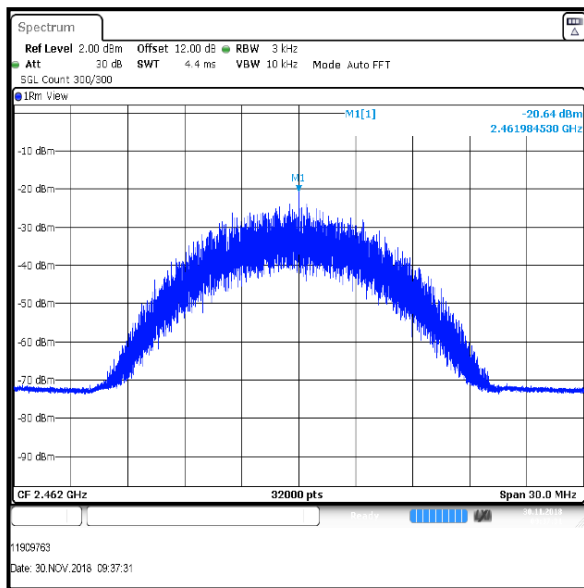
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 3 / PWL 8 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

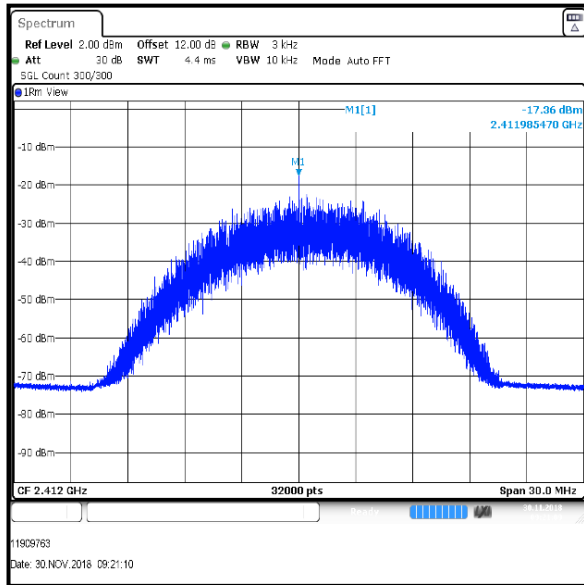
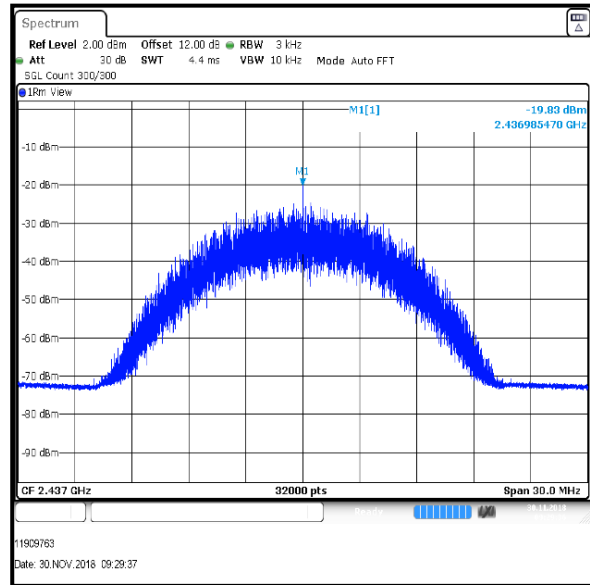
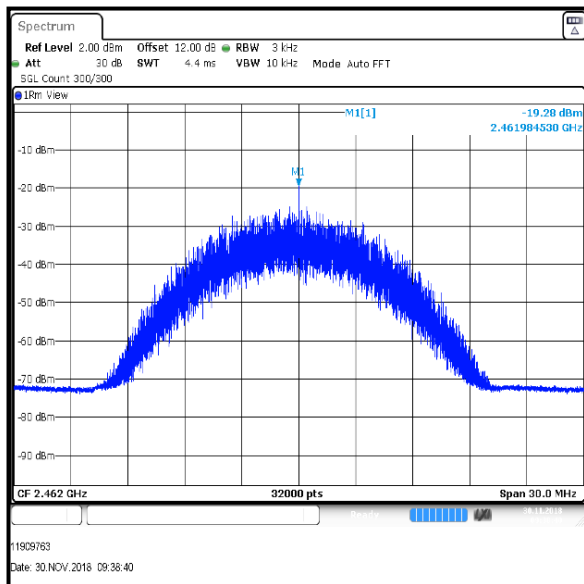
Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1+2+3+4 / PWL 7 / 14 dBi Antenna Group**

Channel	Output Power Port 1 (dBm/3 kHz)	Output Power Port 2 (dBm/3 kHz)	Output Power Port 3 (dBm/3 kHz)	Output Power Port 4 (dBm/3 kHz)	Port 1+2+3+4 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-23.8	-23.8	-16.5	-17.4	-13.1	8.0	21.1	Complied
Middle	-24.2	-24.4	-24.0	-19.8	-16.6	8.0	24.6	Complied
Top	-23.7	-24.6	-20.6	-19.3	-15.5	8.0	23.5	Complied

Result: Pass**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 2 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 3 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 4 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

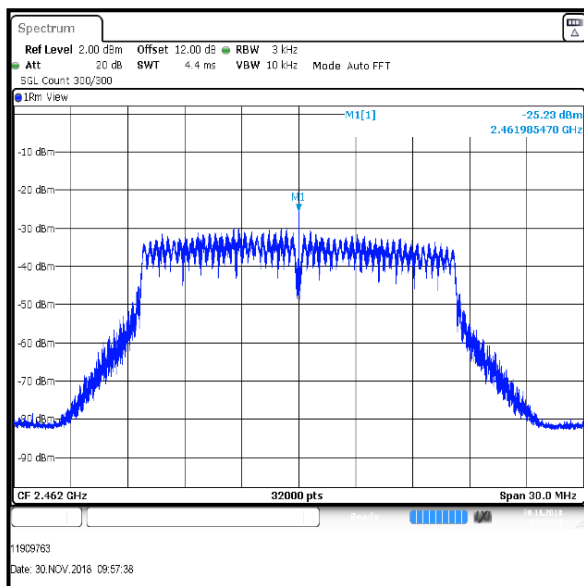
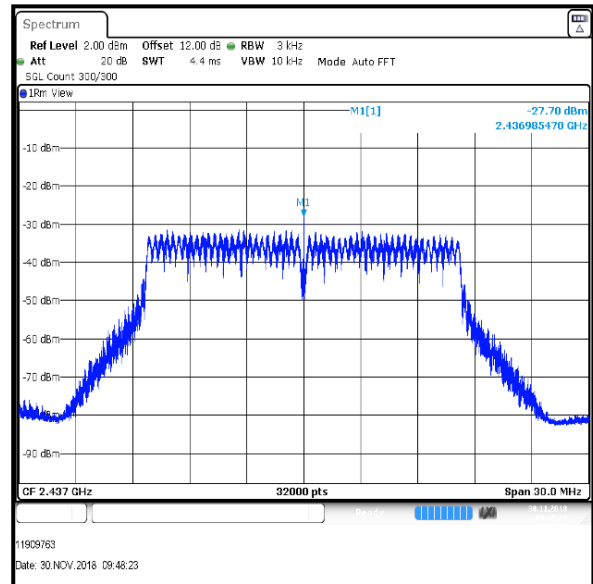
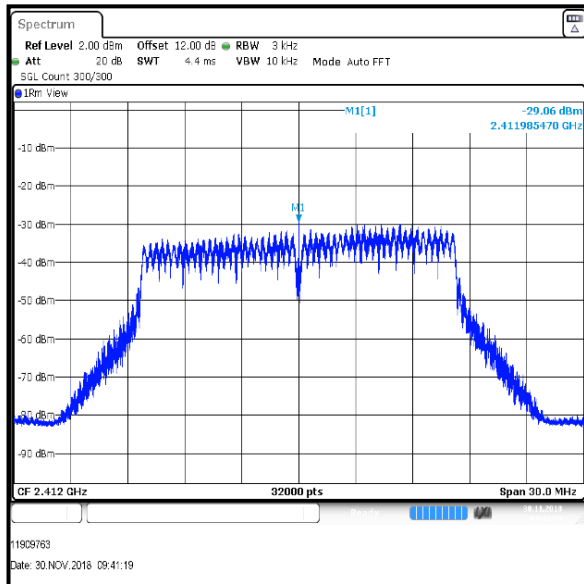
Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1+2+3+4 / PWL 7 / 14 dBi Antenna Group**

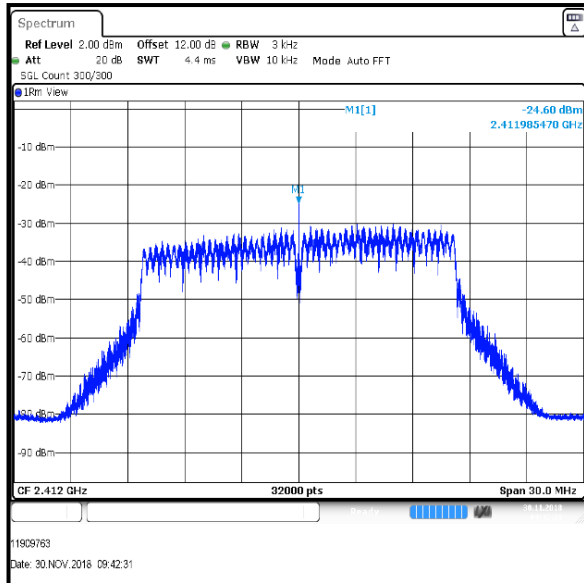
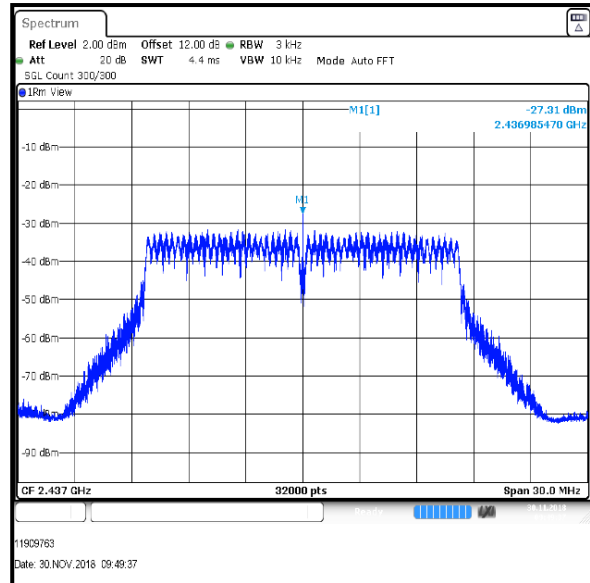
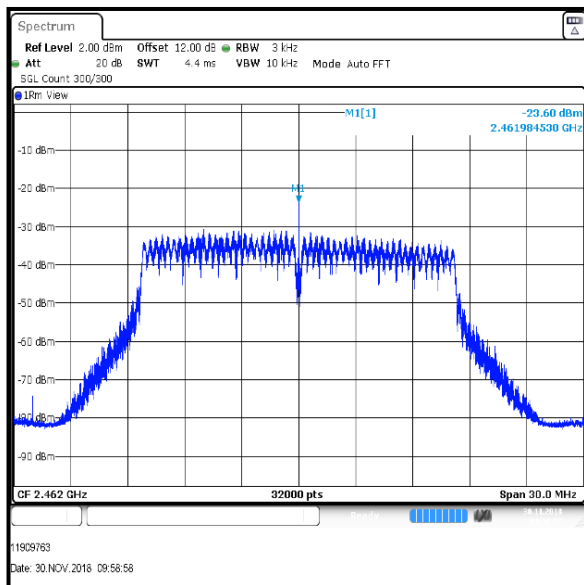
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-29.1	0.2	-28.9	-24.6	0.2	-24.4
Middle	-27.7	0.2	-27.5	-27.3	0.2	-27.1
Top	-25.2	0.2	-25.0	-23.6	0.2	-23.4

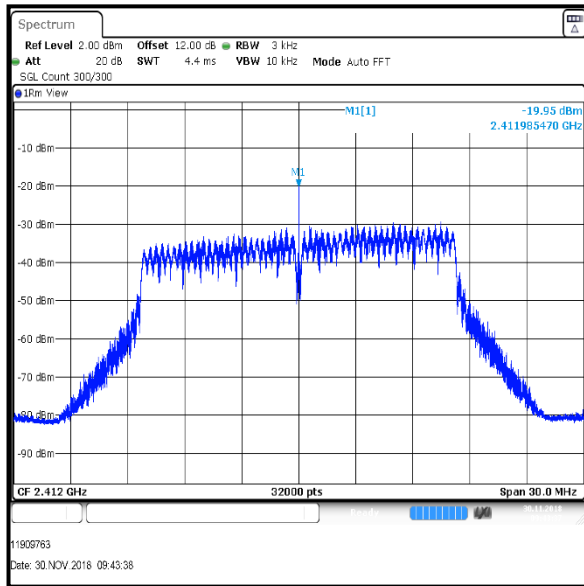
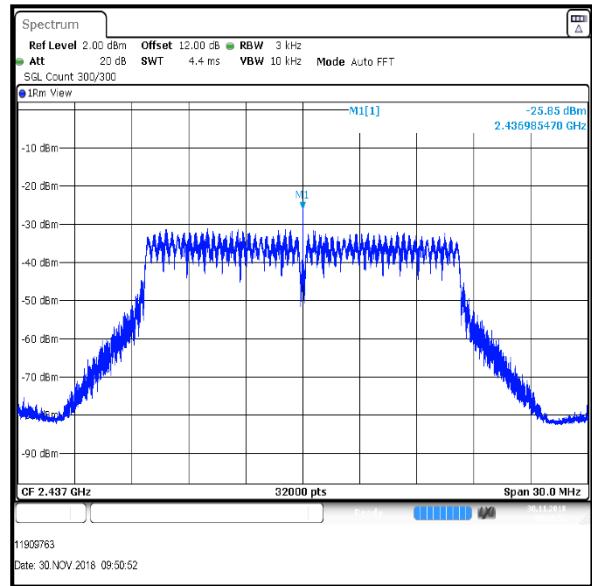
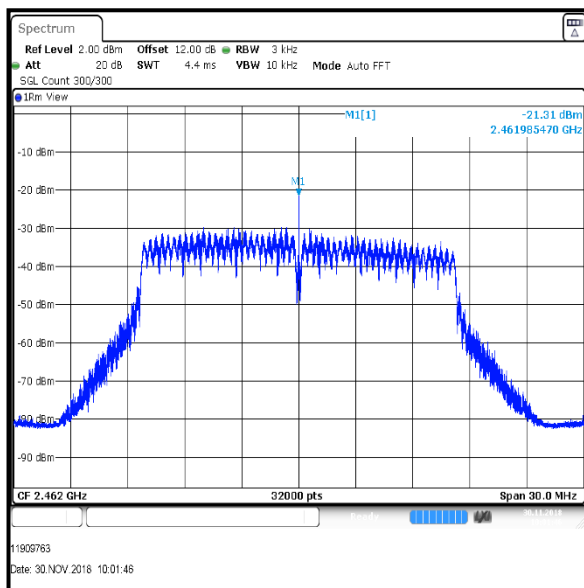
Channel	Port 3			Port 4		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-20.0	0.2	-19.8	-22.9	0.2	-22.7
Middle	-25.9	0.2	-25.7	-20.6	0.2	-20.4
Top	-21.3	0.2	-21.1	-19.6	0.2	-19.4

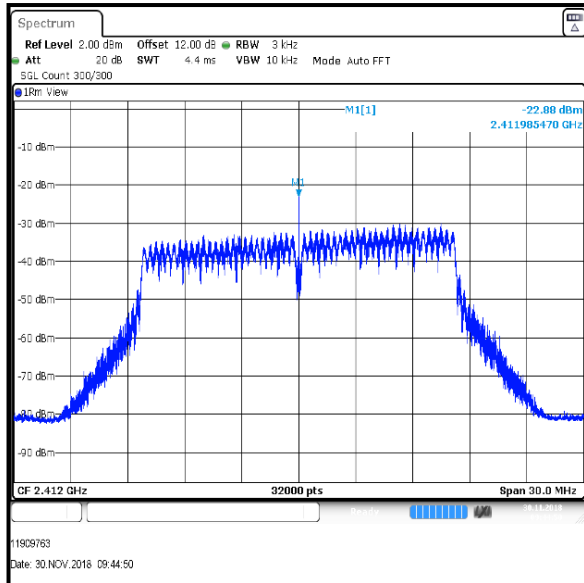
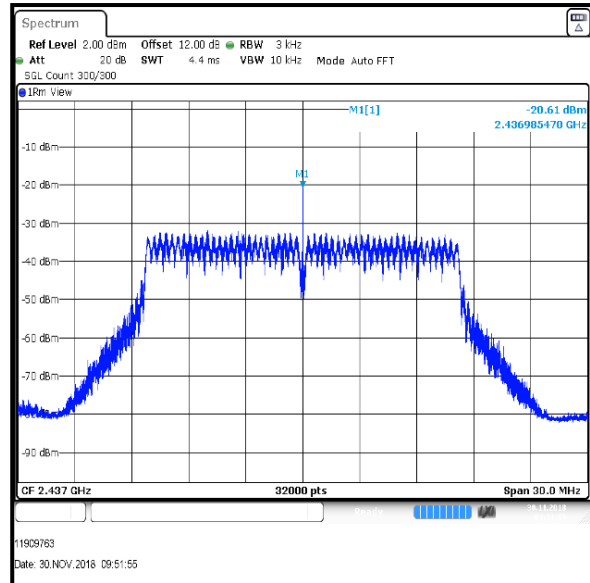
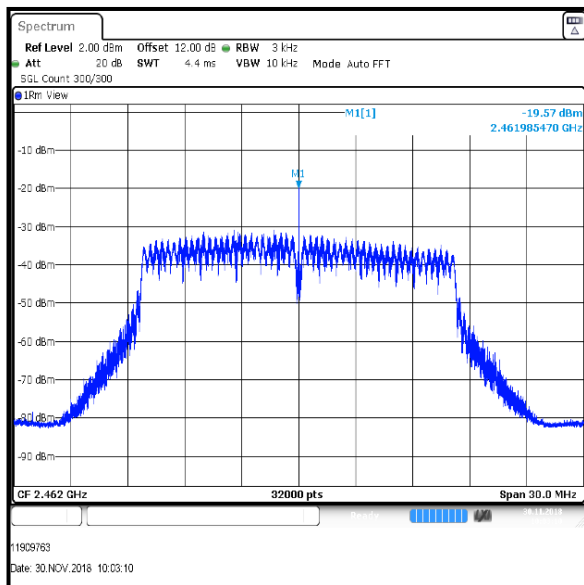
Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Corrected Output Power Port 3 (dBm/3 kHz)	Corrected Output Power Port 4 (dBm/3 kHz)	Port 1+2+3+4 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-28.9	-24.4	-19.8	-22.7	-16.8	8.0	24.8	Complied
Middle	-27.5	-27.1	-25.7	-20.4	-18.1	8.0	26.1	Complied
Top	-25.0	-23.4	-21.1	-19.4	-15.7	8.0	23.7	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1 / PWL 7 / 14 dBi Antenna Group**

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 2 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps /MIMO / Port 3 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 4 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

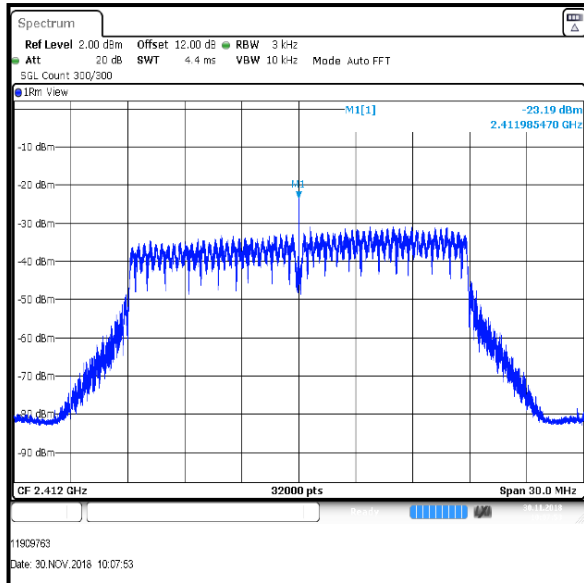
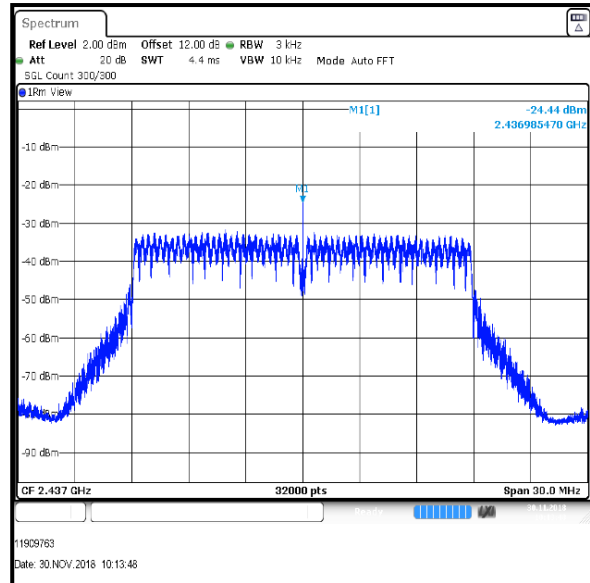
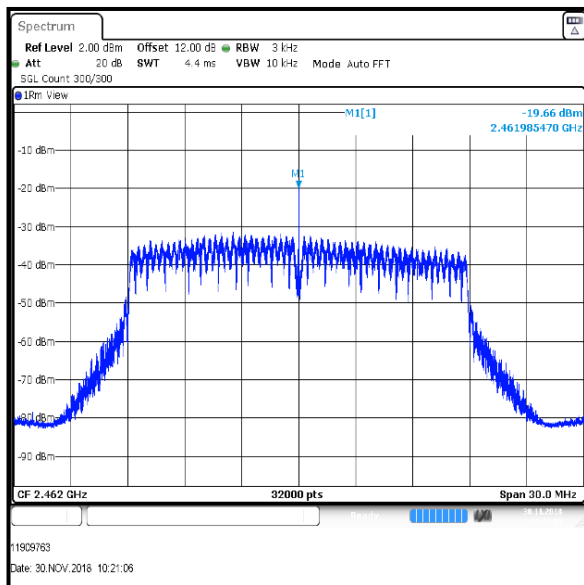
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1+2+3+4 / PWL 7 / 14 dBi Antenna Group**

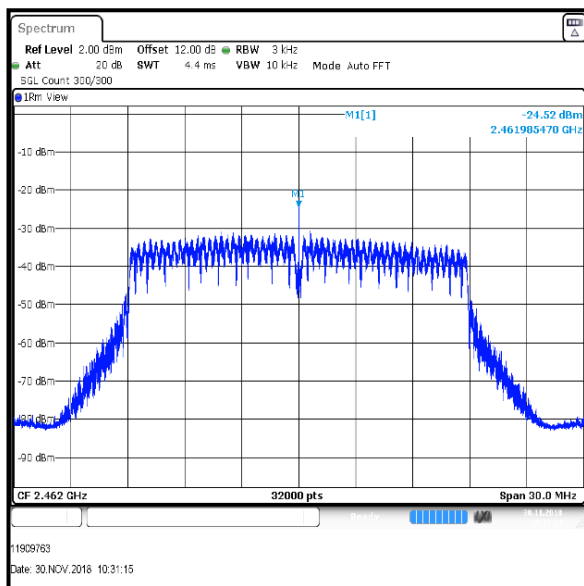
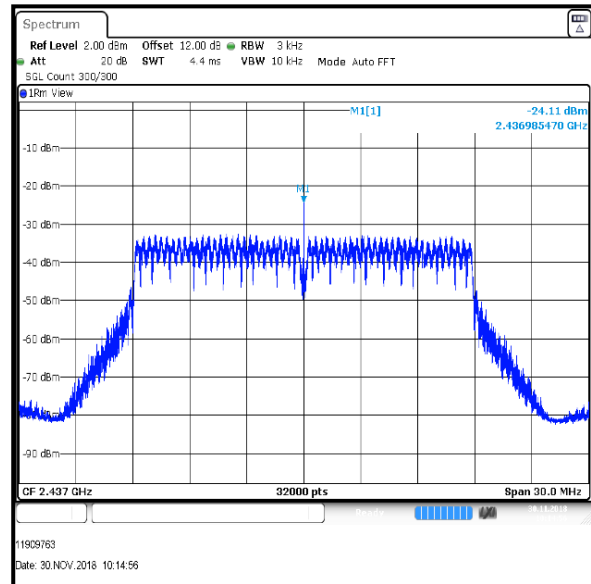
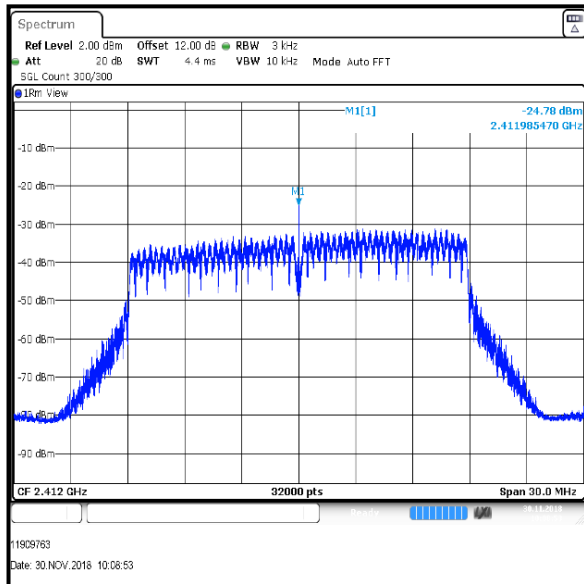
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-23.2	0.4	-22.8	-24.8	0.4	-24.4
Middle	-24.4	0.4	-24.0	-24.1	0.4	-23.7
Top	-19.7	0.4	-19.3	-24.5	0.4	-24.1

Channel	Port 3			Port 4		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-22.9	0.4	-22.5	-23.5	0.4	-23.1
Middle	-25.4	0.4	-25.0	-21.5	0.4	-21.1
Top	-23.3	0.4	-22.9	-19.7	0.4	-19.3

Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Corrected Output Power Port 3 (dBm/3 kHz)	Corrected Output Power Port 4 (dBm/3 kHz)	Port 1+2+3+4 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-22.8	-24.4	-22.5	-23.1	-17.1	8.0	25.1	Complied
Middle	-24.0	-23.7	-25.0	-21.1	-17.2	8.0	25.2	Complied
Top	-19.3	-24.1	-22.9	-19.3	-14.9	8.0	22.9	Complied

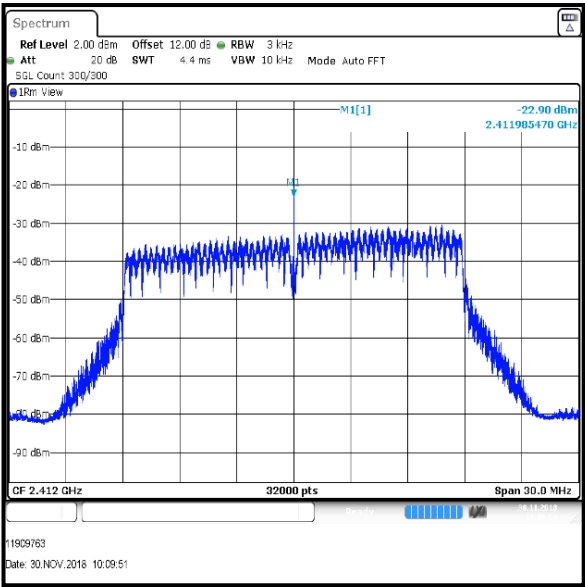
Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 1 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

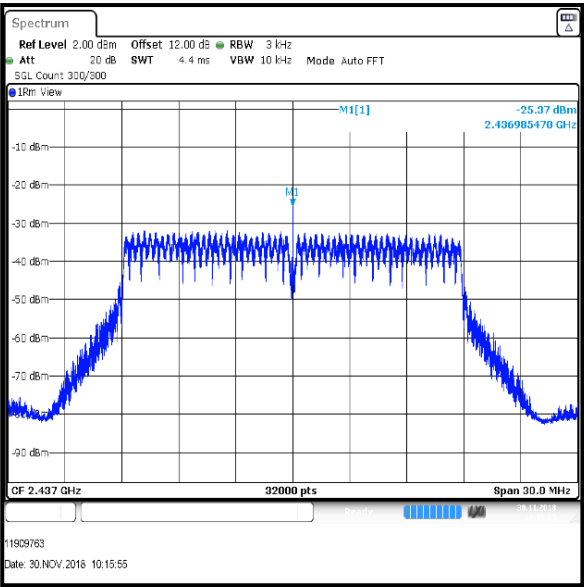
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 2 / PWL 7 / 14 dBi Antenna Group**

Transmitter Power Spectral Density (continued)

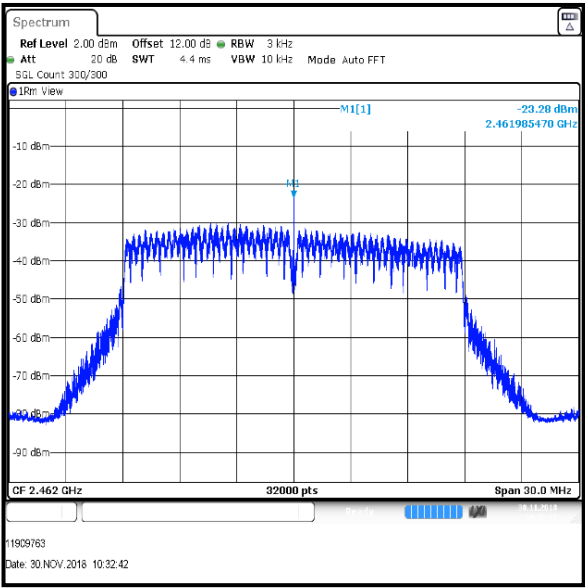
Results: 802.11n / HT20 / MCS0 / MIMO / Port 3 / PWL 7 / 14 dBi Antenna Group



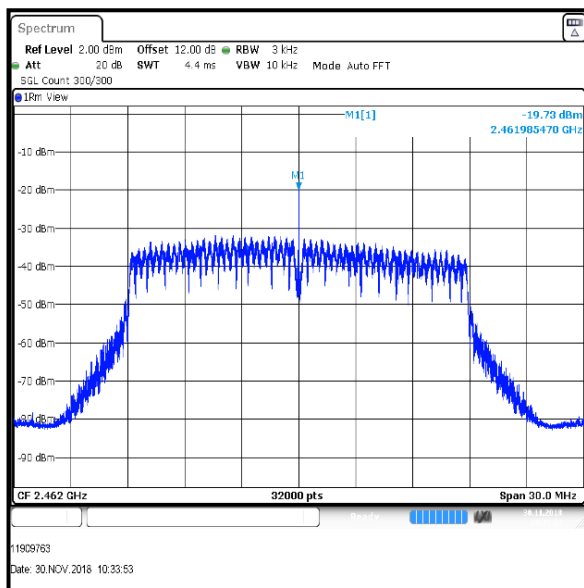
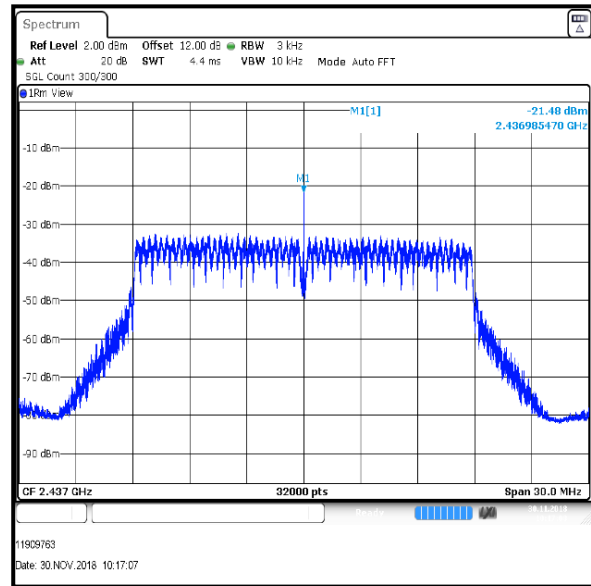
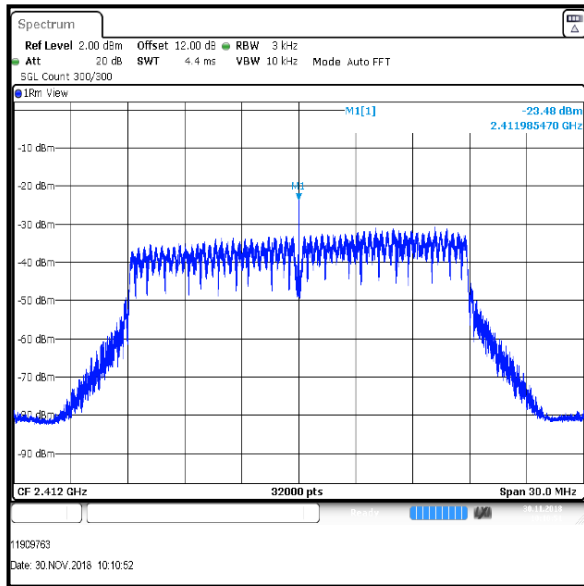
Bottom Channel



Middle Channel



Top Channel

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT20 / MCS0 / MIMO / Port 4 / PWL 7 / 14 dBi Antenna Group**

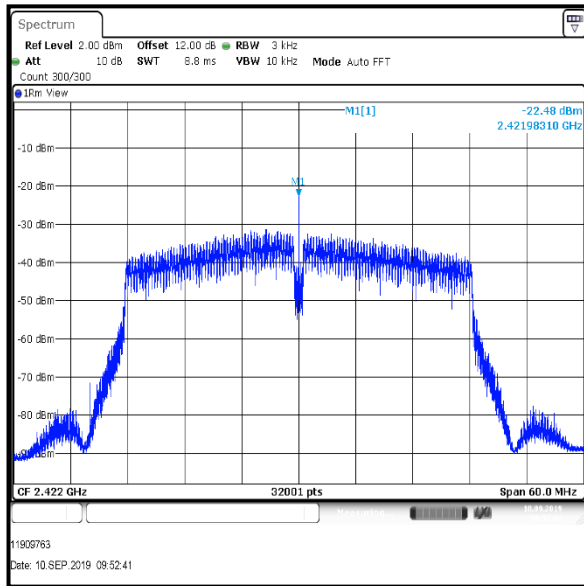
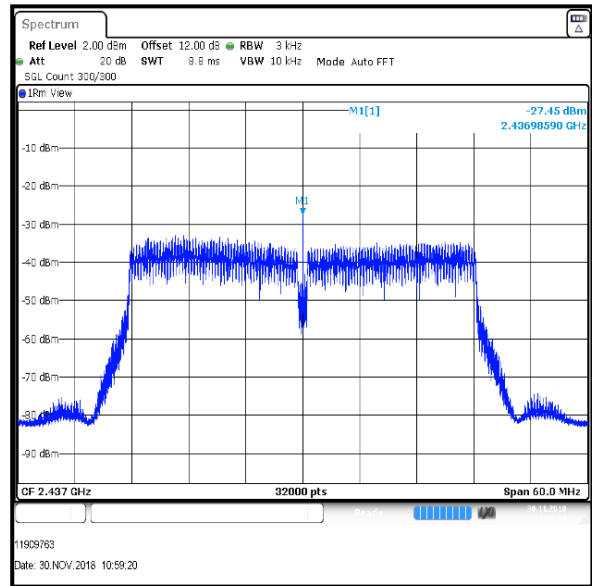
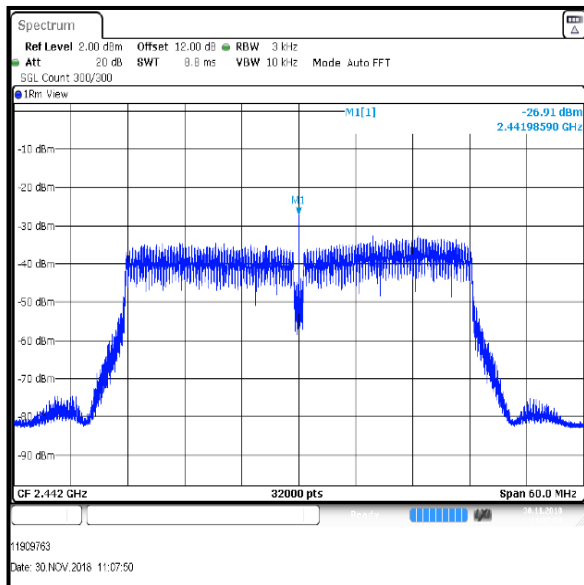
Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1+2+3+4 / PWL 7 / 14 dBi Antenna Group**

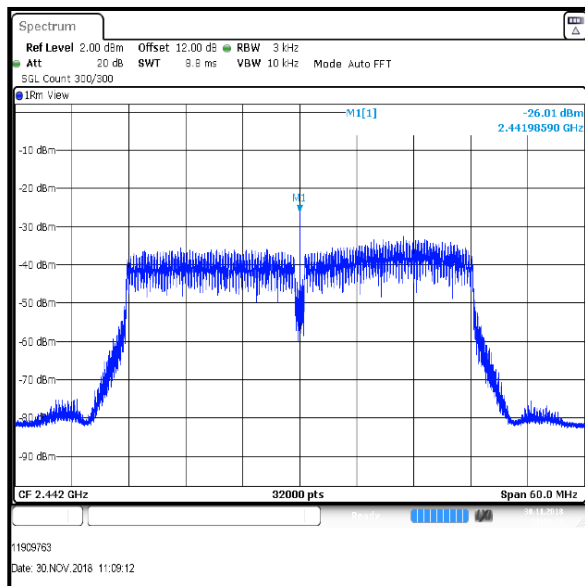
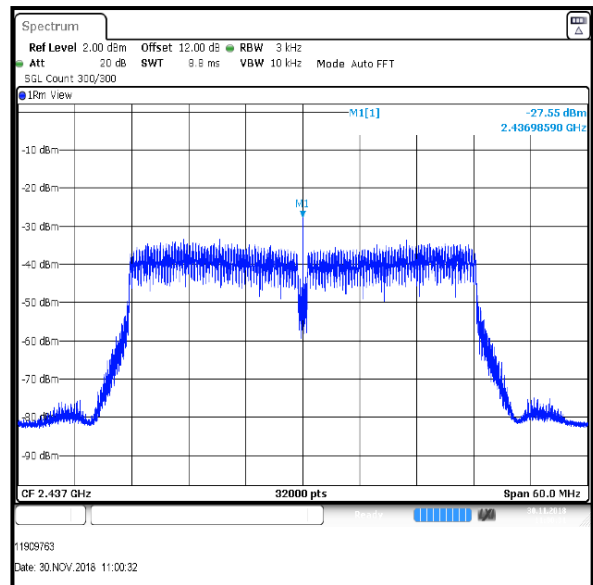
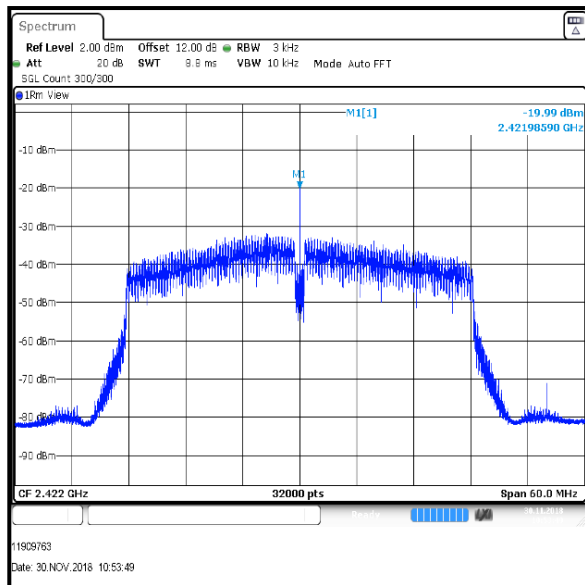
Channel	Port 1			Port 2		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-22.5	0.6	-21.9	-20.0	0.6	-19.4
Middle	-27.5	0.6	-26.9	-27.6	0.6	-27.0
Top	-26.9	0.6	-26.3	-26.0	0.6	-25.4

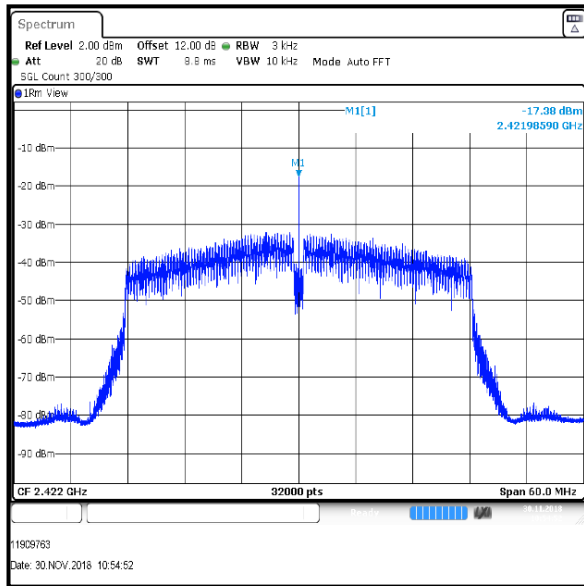
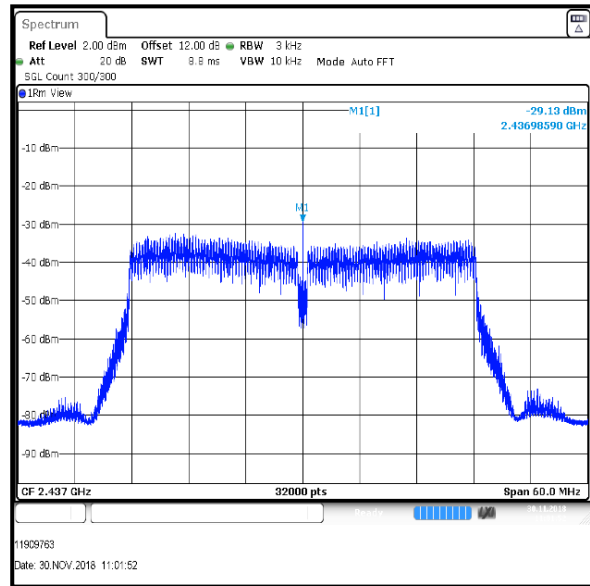
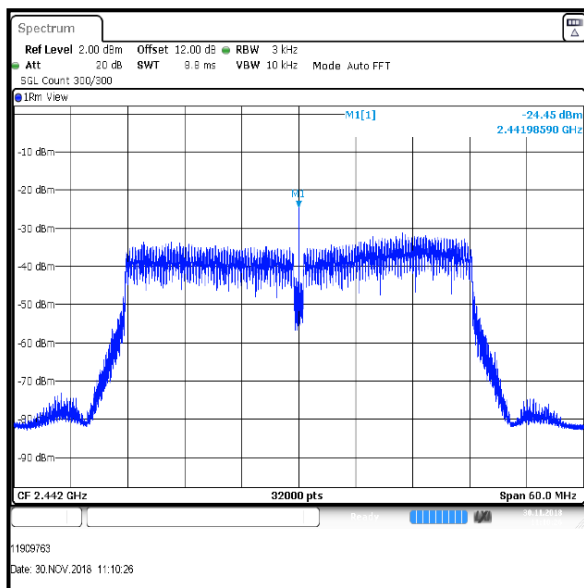
Channel	Port 3			Port 4		
	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)	Output Power (dBm/3 kHz)	Duty Cycle Correction (dB)	Corrected Output Power (dBm/3 kHz)
Bottom	-17.4	0.6	-16.8	-17.4	0.6	-16.8
Middle	-29.1	0.6	-28.5	-22.1	0.6	-21.5
Top	-24.5	0.6	-23.9	-21.2	0.6	-20.6

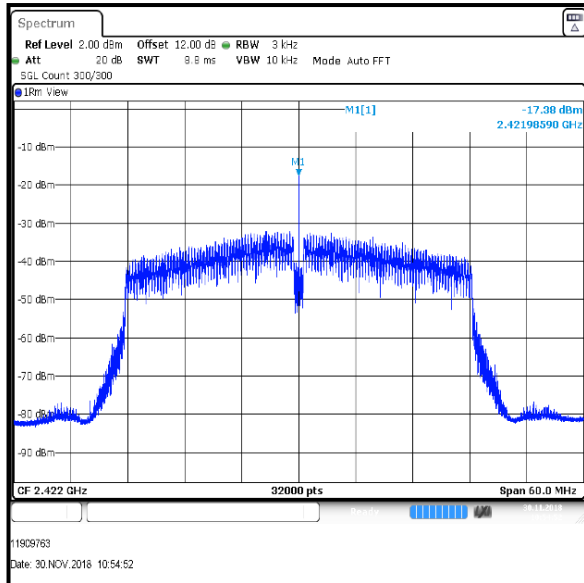
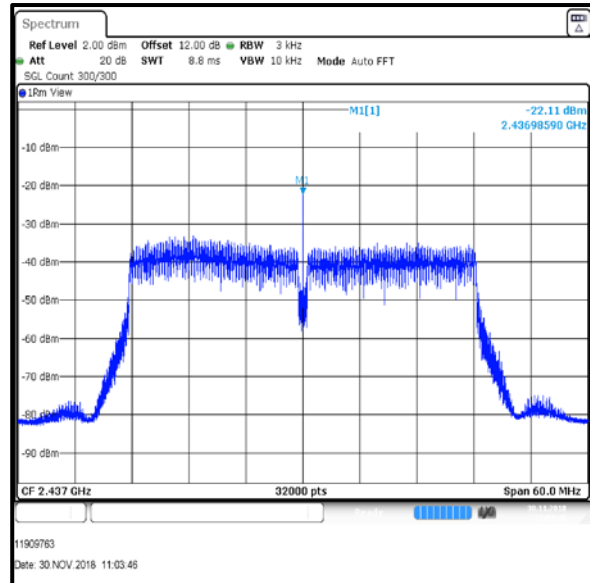
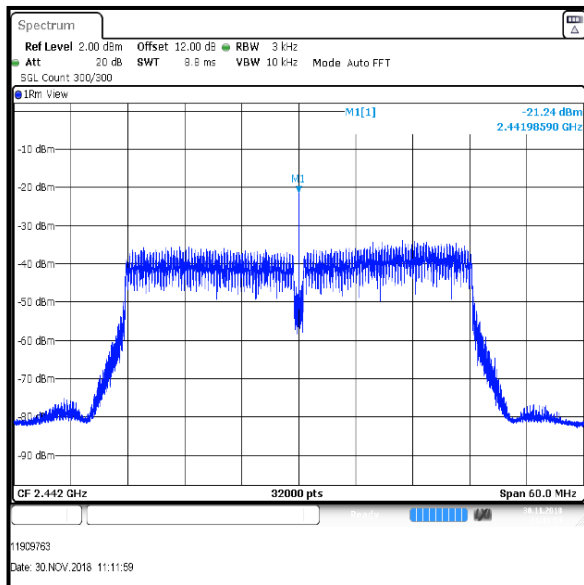
Channel	Corrected Output Power Port 1 (dBm/3 kHz)	Corrected Output Power Port 2 (dBm/3 kHz)	Corrected Output Power Port 3 (dBm/3 kHz)	Corrected Output Power Port 4 (dBm/3 kHz)	Port 1+2+3+4 Combined Output Power (dBm/3 kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	-21.9	-19.4	-16.8	-16.8	-12.2	8.0	20.2	Complied
Middle	-26.9	-27.0	-28.5	-21.5	-19.0	8.0	27	Complied
Top	-26.3	-25.4	-23.9	-20.6	-17.4	8.0	25.4	Complied

Result: Pass

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 1 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 2 / PWL 7 / 14 dBi Antenna Group**

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 3 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Power Spectral Density (continued)**Results: 802.11n / HT40 / MCS0 / MIMO / Port 4 / PWL 7 / 14 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

5.2.5. Transmitter Maximum (Average) Output Power**Test Summary:**

Test Engineer:	Krume Ivanov	Test Dates:	07 January 2020 to 22 January 2020
Test Sample Serial Number:	192.168.0.70 & 192.168.0.60		
Test Site Identification	SR 9		

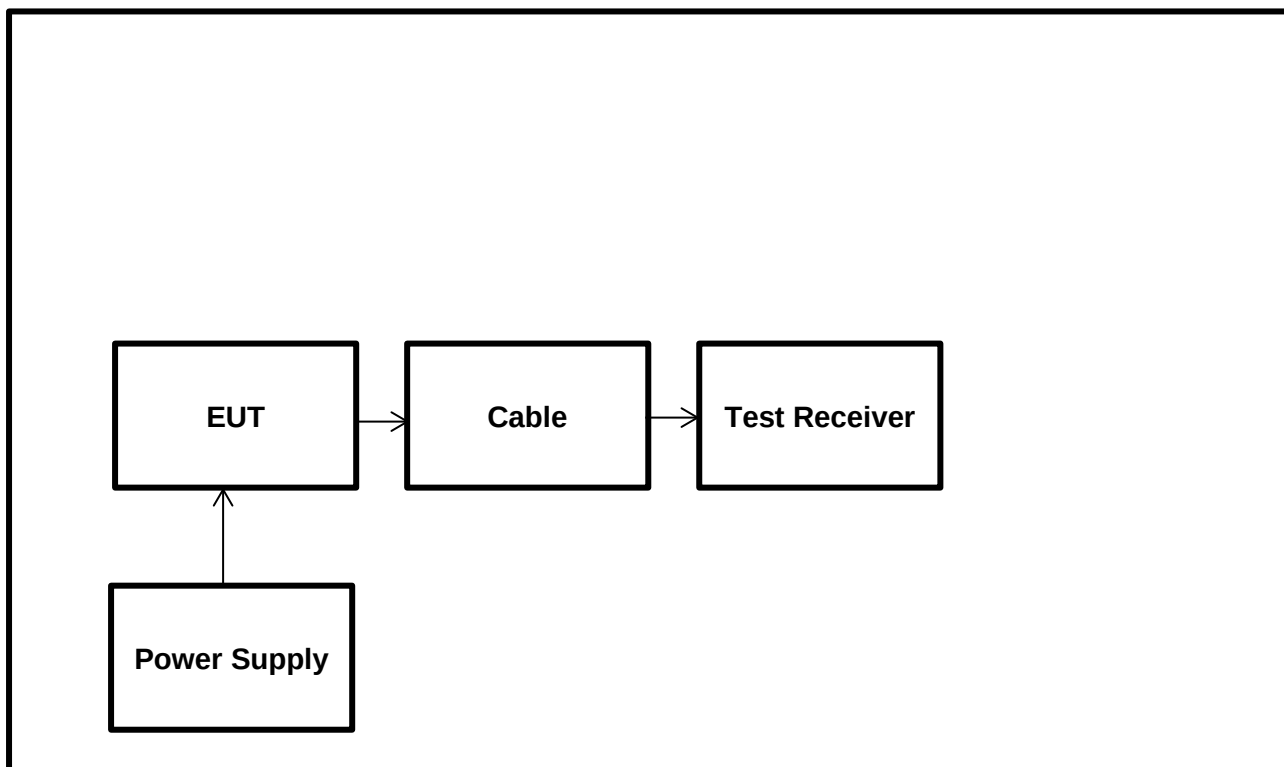
FCC Reference:	Part 15.247(b)(3)(4)
Test Method Used:	FCC KDB 558074 Section 8.3.2.2 referring ANSI C63.10 Sections 11.9.2.2.2 & 11.9.2.2.4

Environmental Conditions:

Temperature (°C):	22 to 24
Relative Humidity (%):	34 to 36

Notes:

- Final measurements were performed using the below configurations on the bottom, middle and top channels. The power has been integrated over the 99% emission bandwidth. Plots for the occupied bandwidth are archived on the company server and available for inspection upon request.
- For 802.11b, the EUT was transmitting at 98% duty cycle and testing was performed in accordance with ANSI C63.10 Sections 11.9.2.2.2 Method AVGSA-1. The signal analyser's integration function was used to integrate across the 99% occupied bandwidth. The signal analyser resolution bandwidth was set to 200 kHz and video bandwidth 1 MHz. An RMS detector was used and sweep time set manually to perform trace averaging over at least 100 traces. The span was set to greater than 1.5 times the 99% occupied emission bandwidth.
- For 802.11g and 802.11n, the EUT was transmitting at <98% duty cycle and testing was performed in accordance with ANSI C63.10 Sections 11.9.2.2.4 Method AVGSA-2. The signal analyser's integration function was used to integrate across the 99% occupied bandwidth. The signal analyser resolution bandwidth was set to 200 kHz and video bandwidth 1 MHz. An RMS detector was used and sweep time set manually to perform trace averaging over at least 100 traces. The span was set to greater than 1.5 times the 99% occupied emission bandwidth. The calculated duty cycle in section 5.2.3 was added to the measured power in order to compute the average power during the actual transmission time.
- For MIMO, power was measured across relevant ports and then combined using the measure-and-sum technique stated in FCC KDB 662911 D01 Section E)1).
- The RF port on the EUT was connected to the spectrum analyser using suitable attenuation and RF cable. The measured values takes into consideration the external attenuation correction factors. The RF cable attenuation (maximum 2.0 dB@2.4GHz) from the EUT to Analyzer including the 10 dB attenuation at the Spectrum Analyzer input was added as a reference level offset (12.0 dB) to each of the conducted plots.
- Power level settings used in GUI are indicated by PWL.
- if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- Conducted Output Power limits for 6 dBi Antenna Group = 30 dBm
- Conducted Output Power limits for 9 dBi Antenna Group = 30 dBm – 3 dB = 27 dBm
- Conducted Output Power limits for 14 dBi Antenna Group = 30 dBm – 8 dB = 22 dBm

Transmitter Maximum (Average) Output Power (continued)**Test setup**

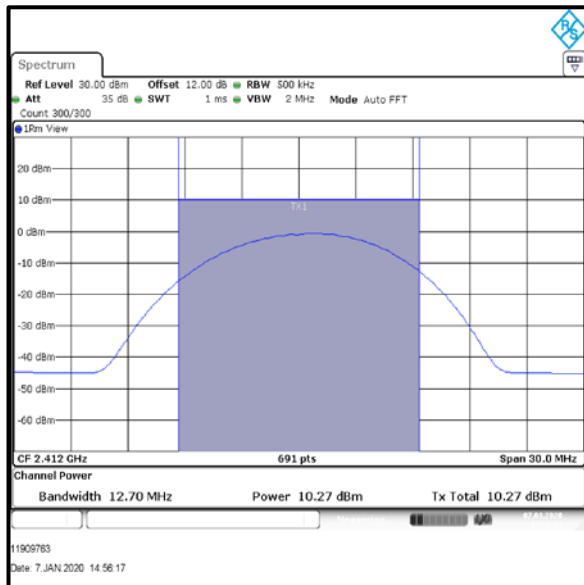
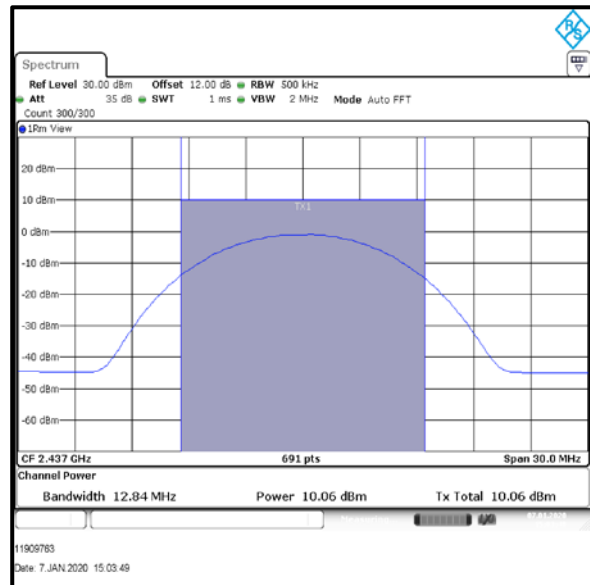
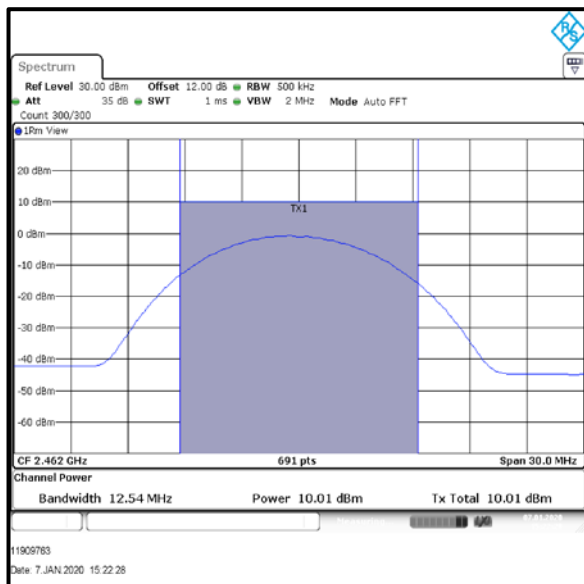
Transmitter Maximum (Average) Output Power (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

Channel	Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	10.3	30.0	19.7	Complied
Middle	10.1	30.0	19.9	Complied
Top	10.0	30.0	20	Complied

De Facto EIRP Limit Comparison

Channel	Conducted Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	10.3	6.0	16.3	36.0	19.7	Complied
Middle	10.1	6.0	16.1	36.0	19.9	Complied
Top	10.0	6.0	16	36.0	20	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

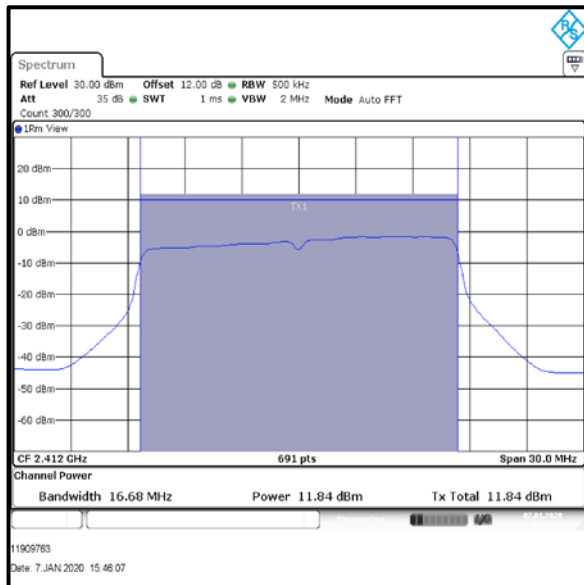
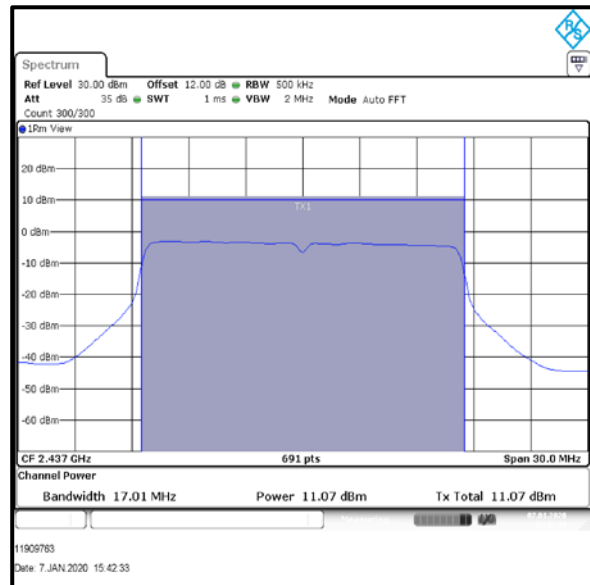
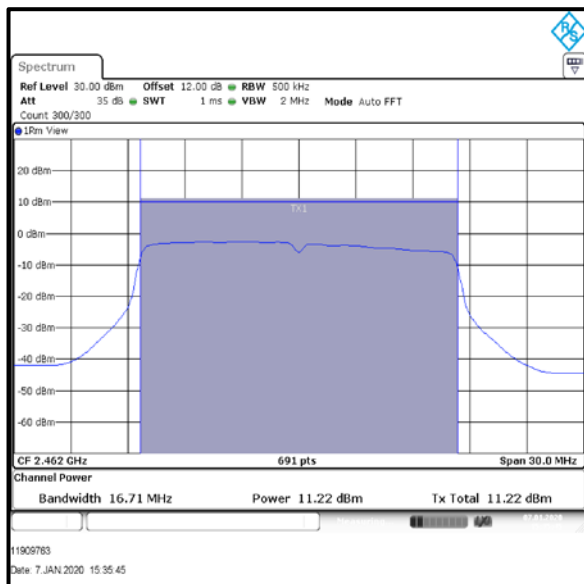
Transmitter Maximum (Average) Output Power (continued)**Results: 802.11g / 20 MHz / 6 Mbps / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

Channel	Conducted Power (dBm)	Duty Cycle Correction (dB)	Corrected Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	11.8	0.2	12	30.0	18	Complied
Middle	11.1	0.2	11.3	30.0	18.7	Complied
Top	11.2	0.2	11.4	30.0	18.6	Complied

De Facto EIRP Limit Comparison

Channel	Corrected Conducted Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	12	6.0	18	36.0	18	Complied
Middle	11.3	6.0	17.3	36.0	18.7	Complied
Top	11.4	6.0	17.4	36.0	18.6	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11g / 20 MHz / 6 Mbps / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

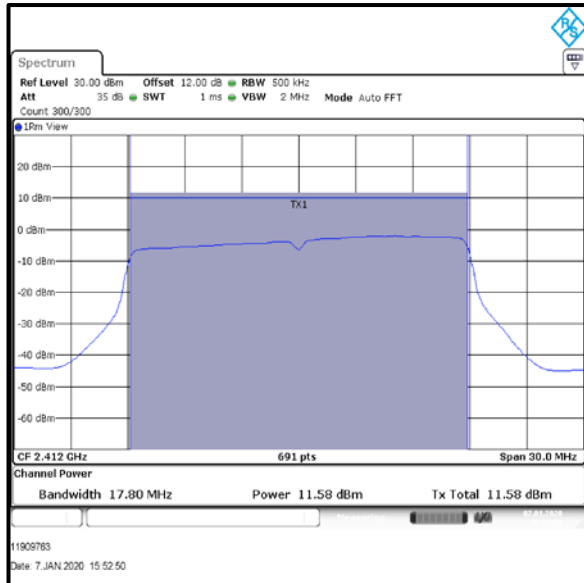
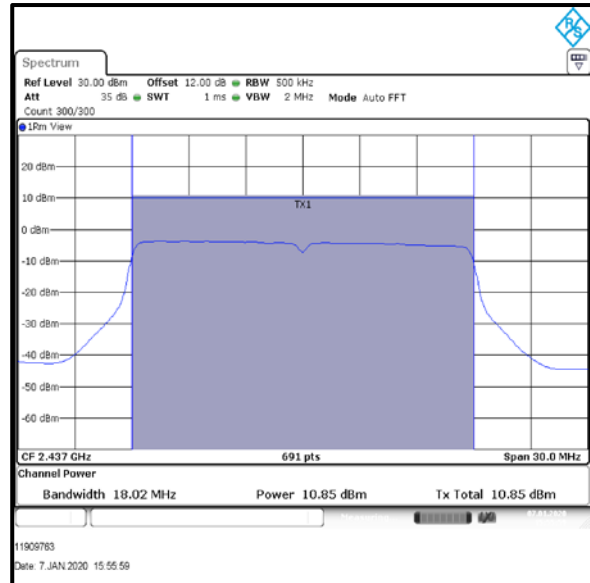
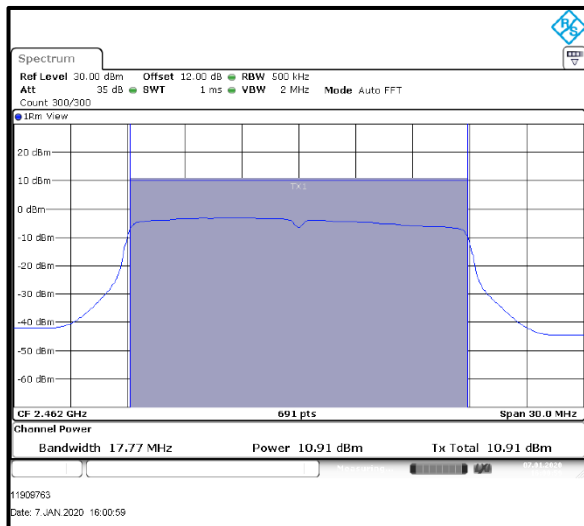
Transmitter Maximum (Average) Output Power (continued)**Results: 802.11n / HT20 / MCS0 / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

Channel	Conducted Power (dBm)	Duty Cycle Correction (dB)	Corrected Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	11.6	0.4	12	30.0	18	Complied
Middle	10.9	0.4	11.3	30.0	18.7	Complied
Top	10.9	0.4	11.3	30.0	18.7	Complied

De Facto EIRP Limit Comparison

Channel	Corrected Conducted Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	12.0	6.0	18	36.0	18	Complied
Middle	11.3	6.0	17.3	36.0	18.7	Complied
Top	11.3	6.0	17.3	36.0	18.7	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11n / HT20 / MCS0 / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

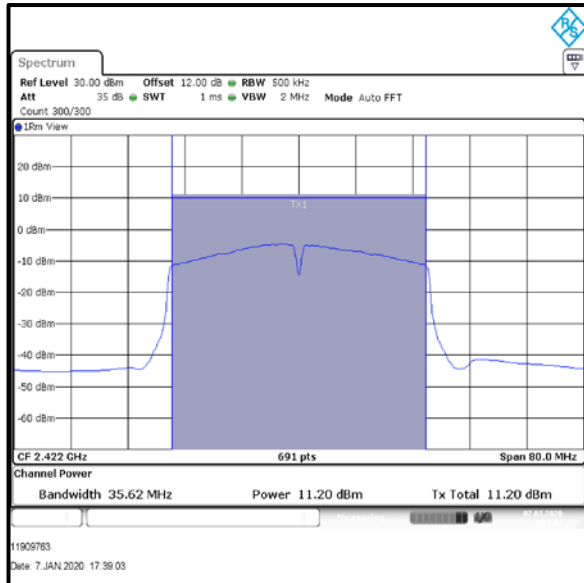
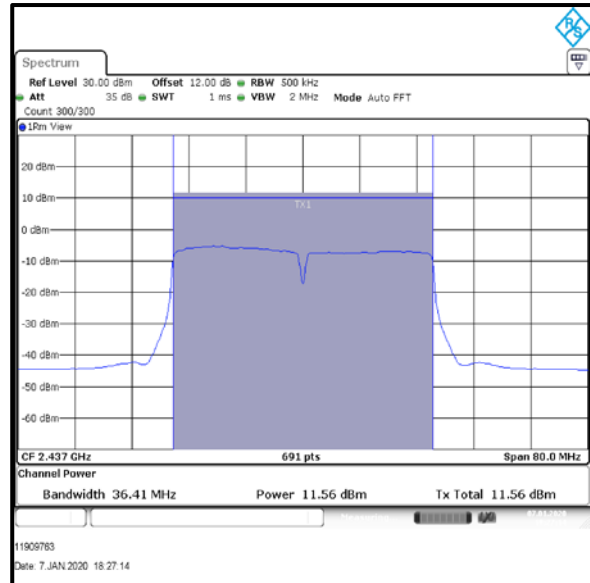
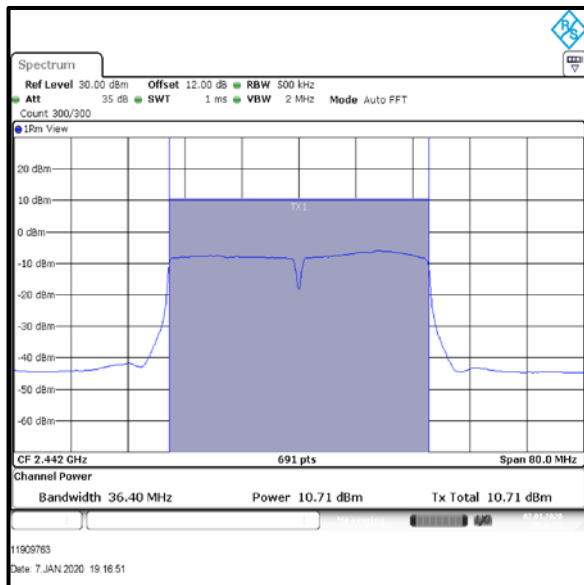
Transmitter Maximum (Average) Output Power (continued)**Results: 802.11n / HT40 / MCS0 / SISO / Port 1 / PWR 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

Channel	Conducted Power (dBm)	Duty Cycle Correction (dB)	Corrected Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	11.2	0.6	11.8	30.0	18.2	Complied
Middle	11.6	0.6	12.2	30.0	17.8	Complied
Top	10.7	0.6	11.3	30.0	18.7	Complied

De Facto EIRP Limit Comparison

Channel	Corrected Conducted Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	11.8	6.0	17.8	36.0	18.2	Complied
Middle	12.2	6.0	18.2	36.0	17.8	Complied
Top	11.3	6.0	17.3	36.0	18.7	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11n / HT40 / MCS0 / SISO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

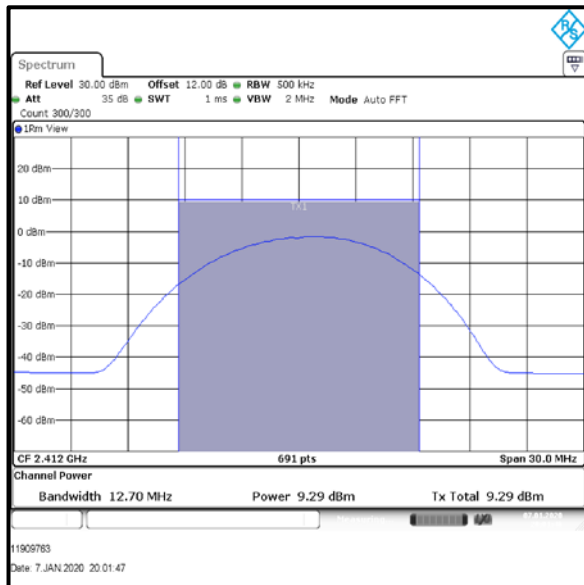
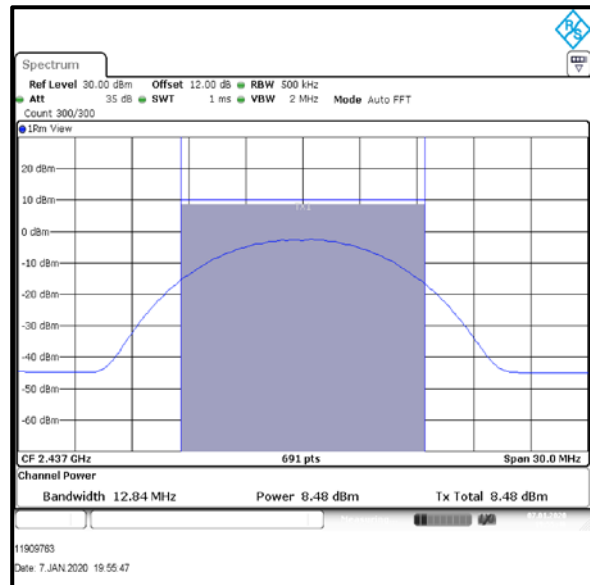
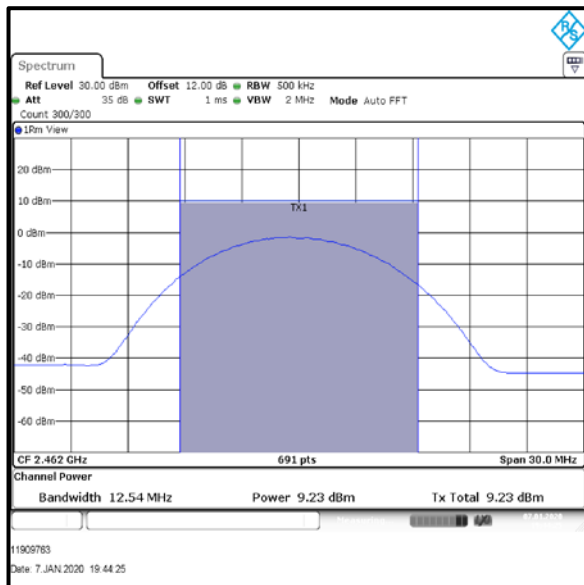
Transmitter Maximum (Average) Output Power (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1+2 / PWL 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

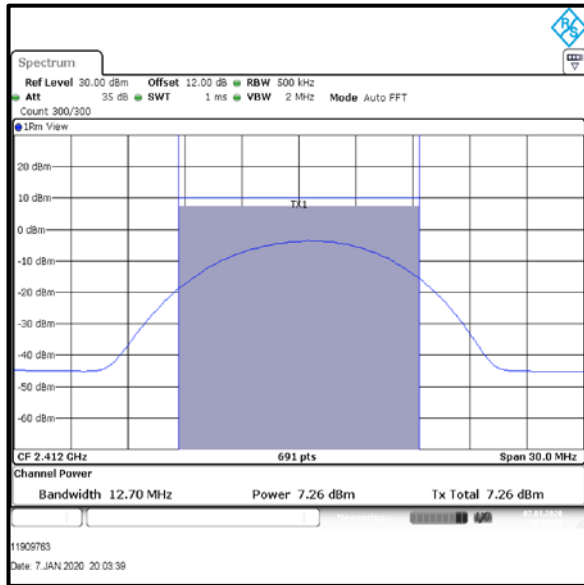
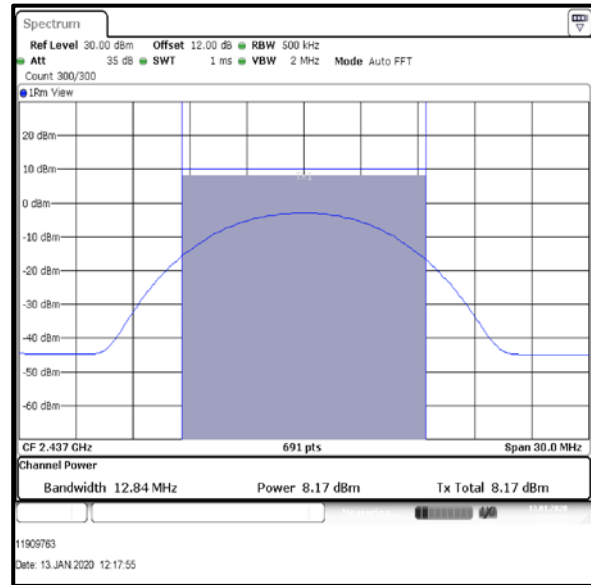
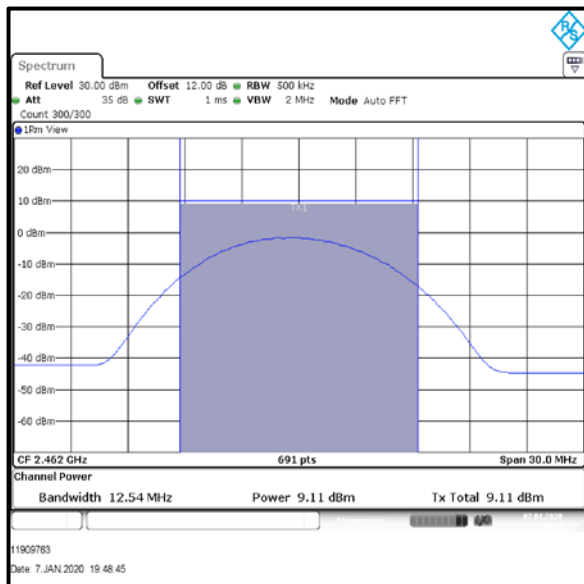
Channel	Conducted Power Port 1 (dBm)	Conducted Power Port 2 (dBm)	Port 1+2 Combined Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	9.3	7.3	11.4	30.0	18.6	Complied
Middle	8.5	8.2	11.3	30.0	18.7	Complied
Top	9.2	9.1	12.2	30.0	17.8	Complied

De Facto EIRP Limit Comparison

Channel	Port 1+2 Combined Conducted Power (dBm)	Directional Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	11.4	6.0	17.4	36.0	18.6	Complied
Middle	11.3	6.0	17.3	36.0	18.7	Complied
Top	12.2	6.0	18.2	36.0	17.8	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11b / 20 MHz / 5.5 Mbps / MIMO / Port 2 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1+2 / PWL 12 / 6 dBi Antenna Group****Conducted Power Limit Comparison**

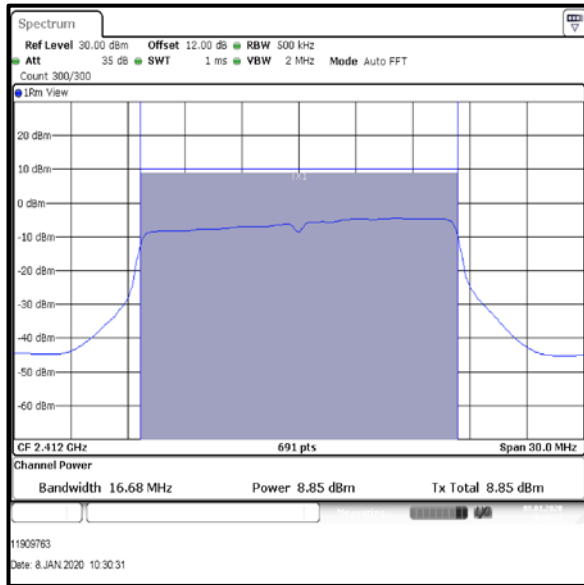
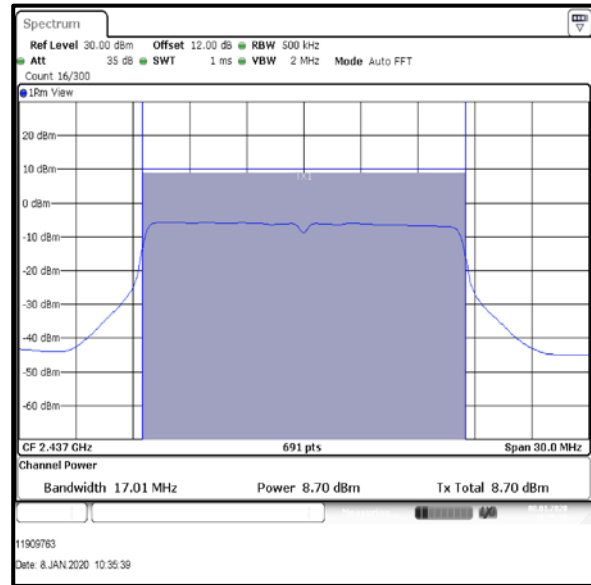
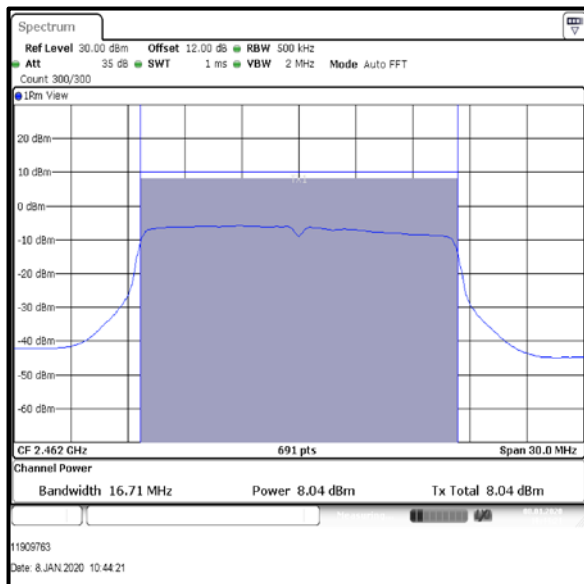
Channel	Port 1			Port 2		
	Conducted Power (dBm)	Duty Cycle Correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle Correction (dB)	Corrected Conducted Power (dBm)
Bottom	8.9	0.2	9.1	8.4	0.2	8.6
Middle	8.7	0.2	8.9	7.9	0.2	8.1
Top	8.0	0.2	8.2	8.1	0.2	8.3

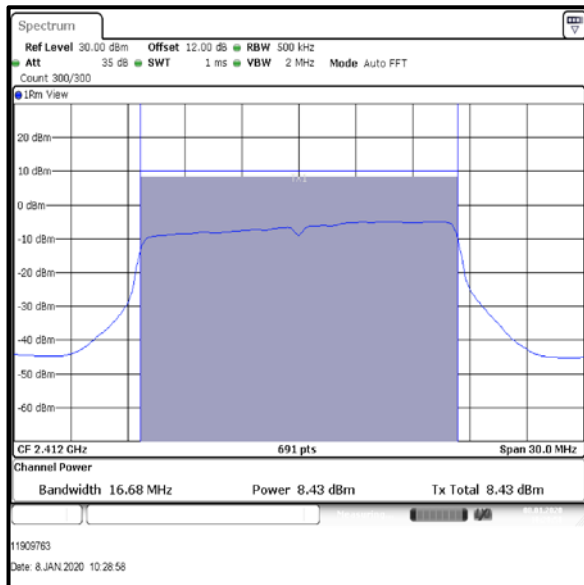
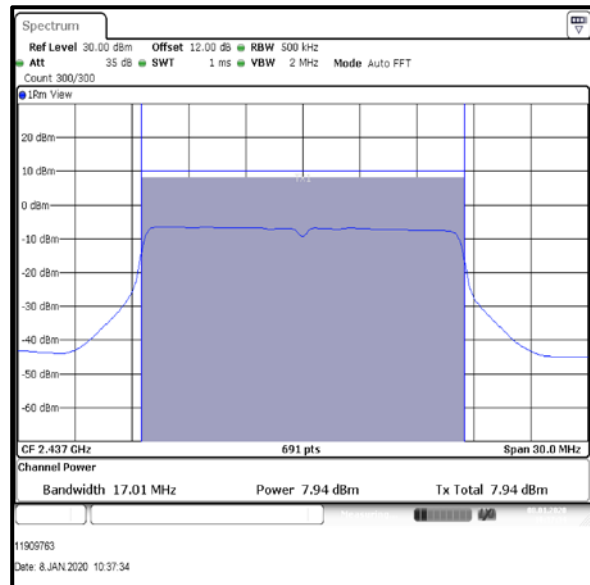
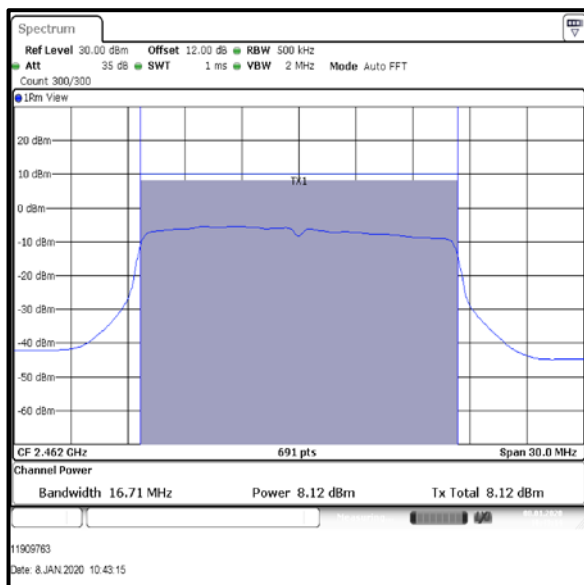
Channel	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Port 1+2 Combined Conducted Power (dBm)	Conducted Power Limit (dBm)	Margin (dB)	Result
Bottom	9.1	8.6	11.9	30.0	18.1	Complied
Middle	8.9	8.1	11.5	30.0	18.5	Complied
Top	8.2	8.3	11.3	30.0	18.7	Complied

De Facto EIRP Limit Comparison

Channel	Port 1+2 Combined Conducted Power (dBm)	Directional Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	11.9	6.0	17.9	36.0	18.1	Complied
Middle	11.5	6.0	17.5	36.0	18.5	Complied
Top	11.3	6.0	17.3	36.0	18.7	Complied

Result: Pass

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 1 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum (Average) Output Power (continued)**Results: 802.11g / 20 MHz / 6 Mbps / MIMO / Port 2 / PWL 12 / 6 dBi Antenna Group****Bottom Channel****Middle Channel****Top Channel**