

Fig. 38 Conducted Spurious Emission (802.11n-HT20, Ch165, 25 GHz-40 GHz)

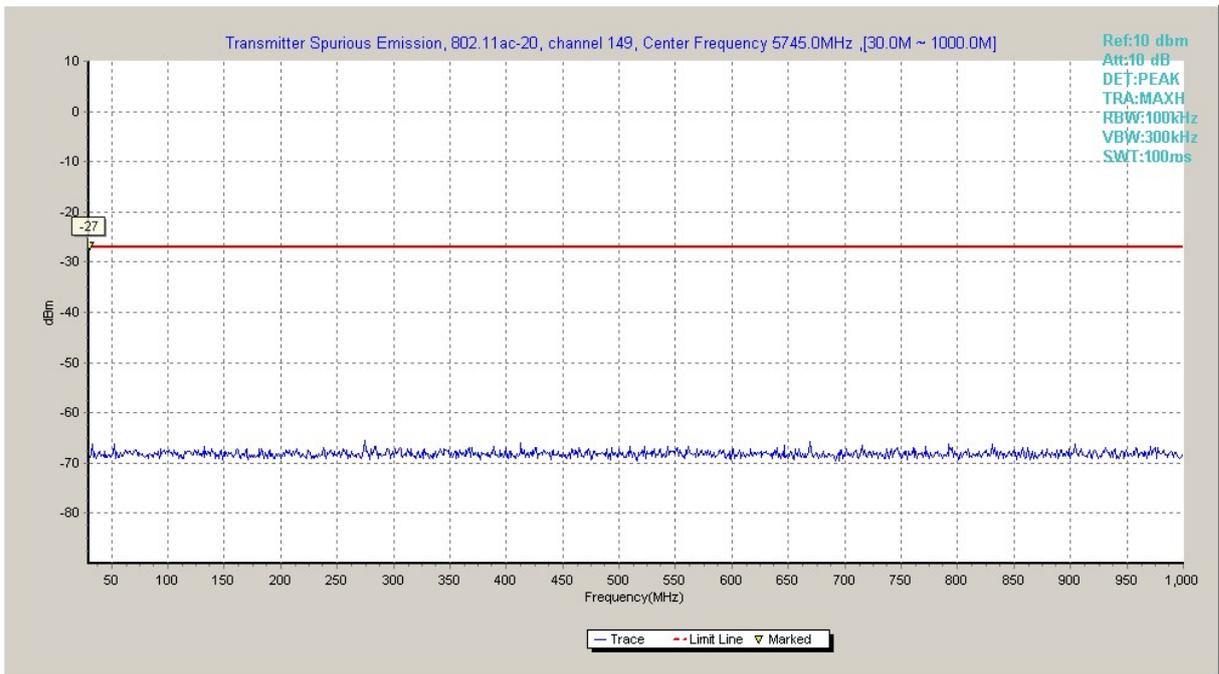


Fig. 39 Conducted Spurious Emission (802.11ac-HT20, Ch149, 30 MHz-1 GHz)

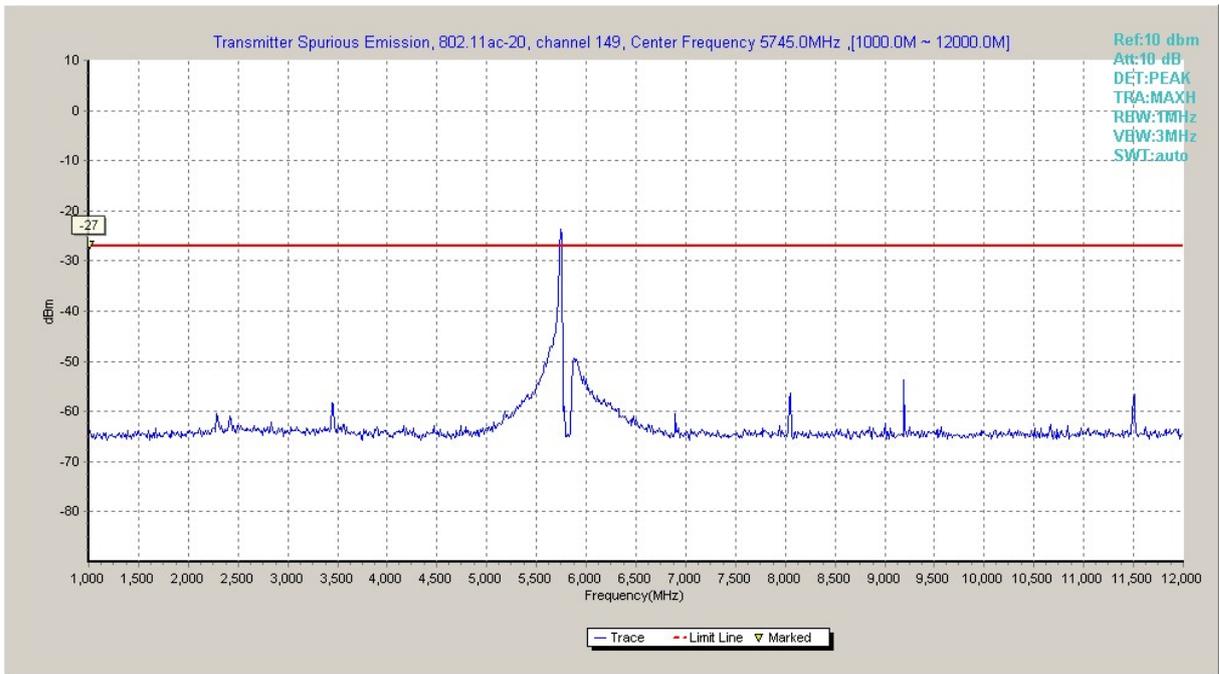


Fig. 40 Conducted Spurious Emission (802.11ac-HT20, Ch149, 1 GHz -12 GHz)

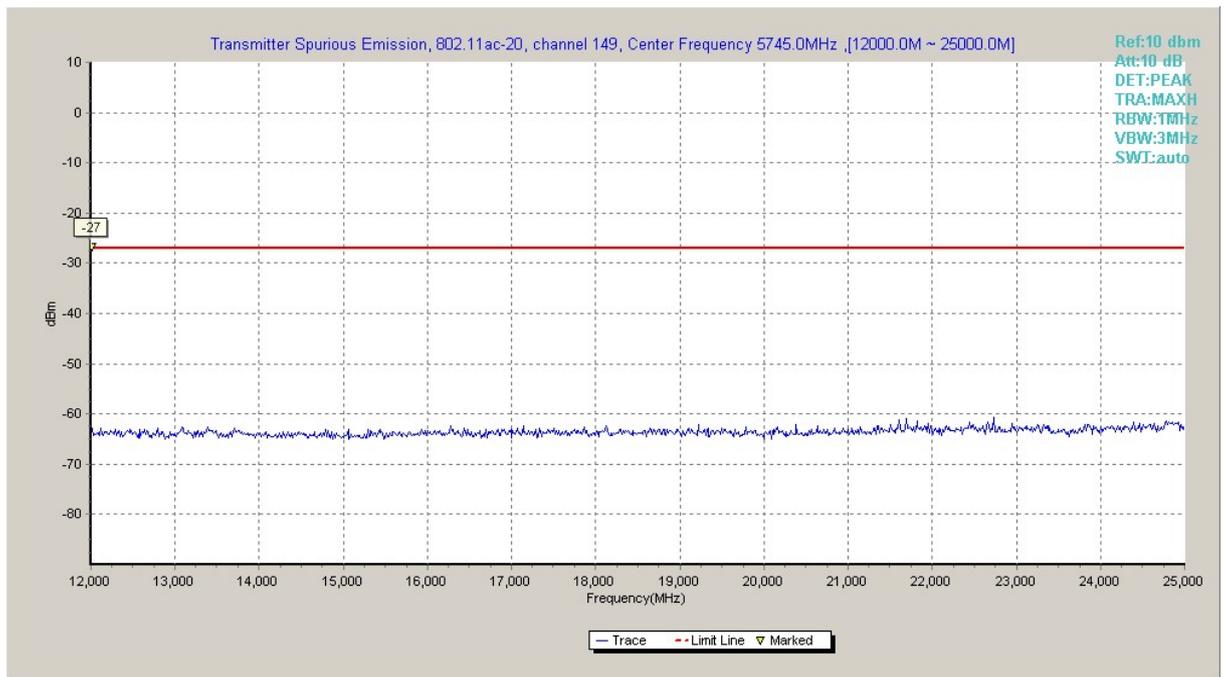


Fig. 41 Conducted Spurious Emission (802.11ac-HT20, Ch149, 12 GHz-25 GHz)

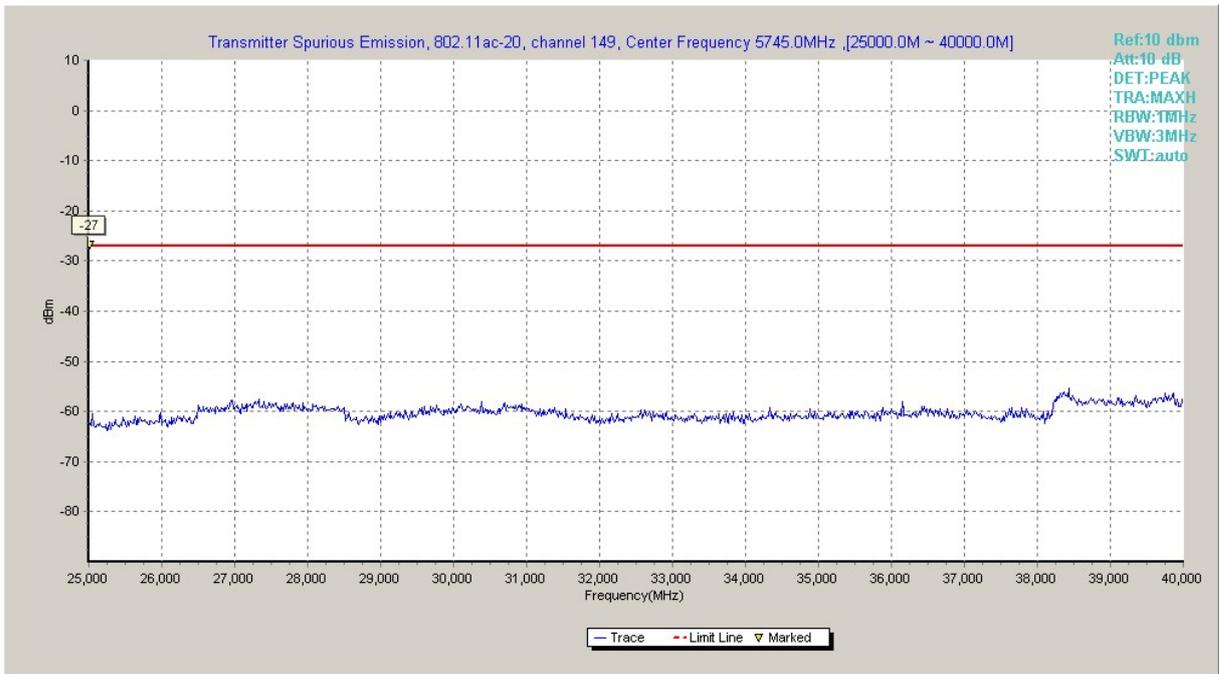


Fig. 42 Conducted Spurious Emission (802.11ac-HT20, Ch149, 25 GHz-40 GHz)

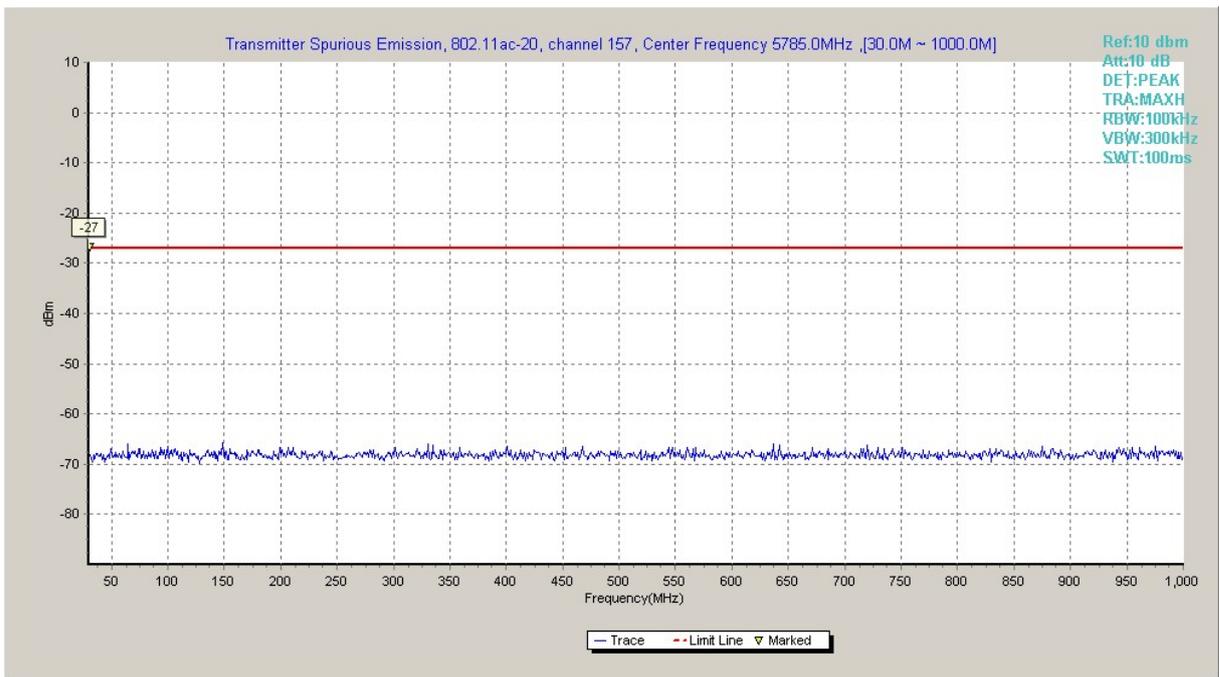


Fig. 43 Conducted Spurious Emission (802.11ac-HT20, Ch157, 30 MHz-1 GHz)

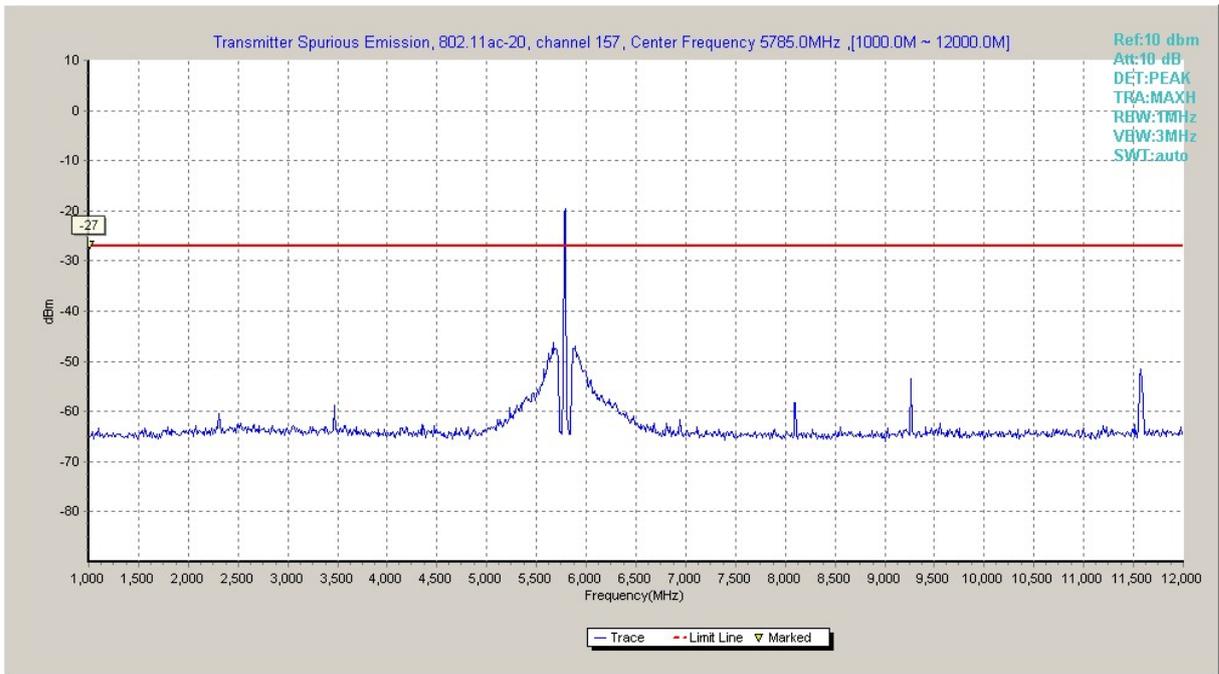


Fig. 44 Conducted Spurious Emission (802.11ac-HT20, Ch157, 1 GHz -12 GHz)

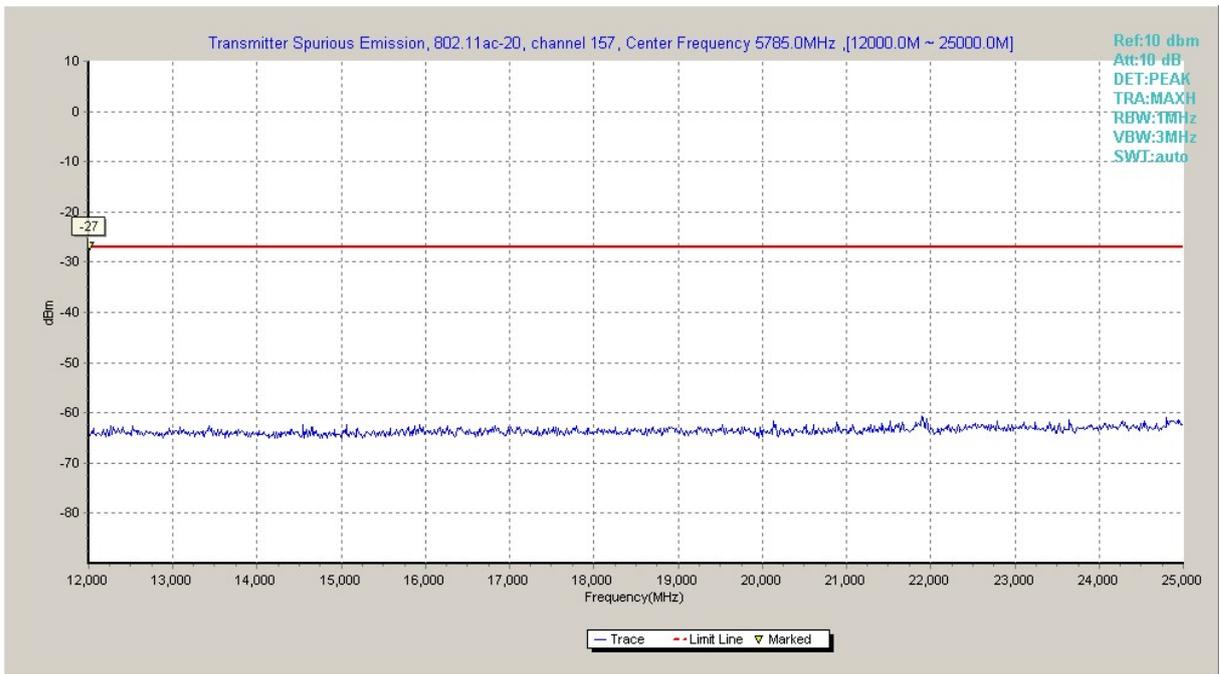


Fig. 45 Conducted Spurious Emission (802.11ac-HT20, Ch157, 12 GHz-25 GHz)

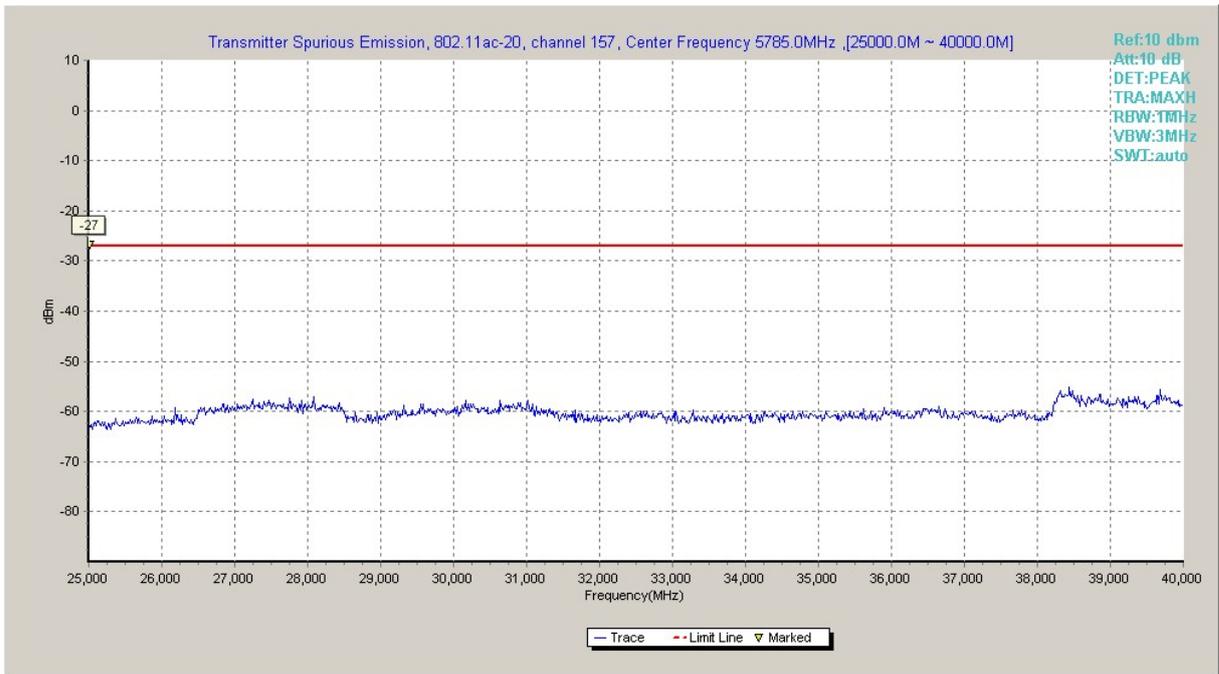


Fig. 46 Conducted Spurious Emission (802.11ac-HT20, Ch157, 25 GHz-40 GHz)

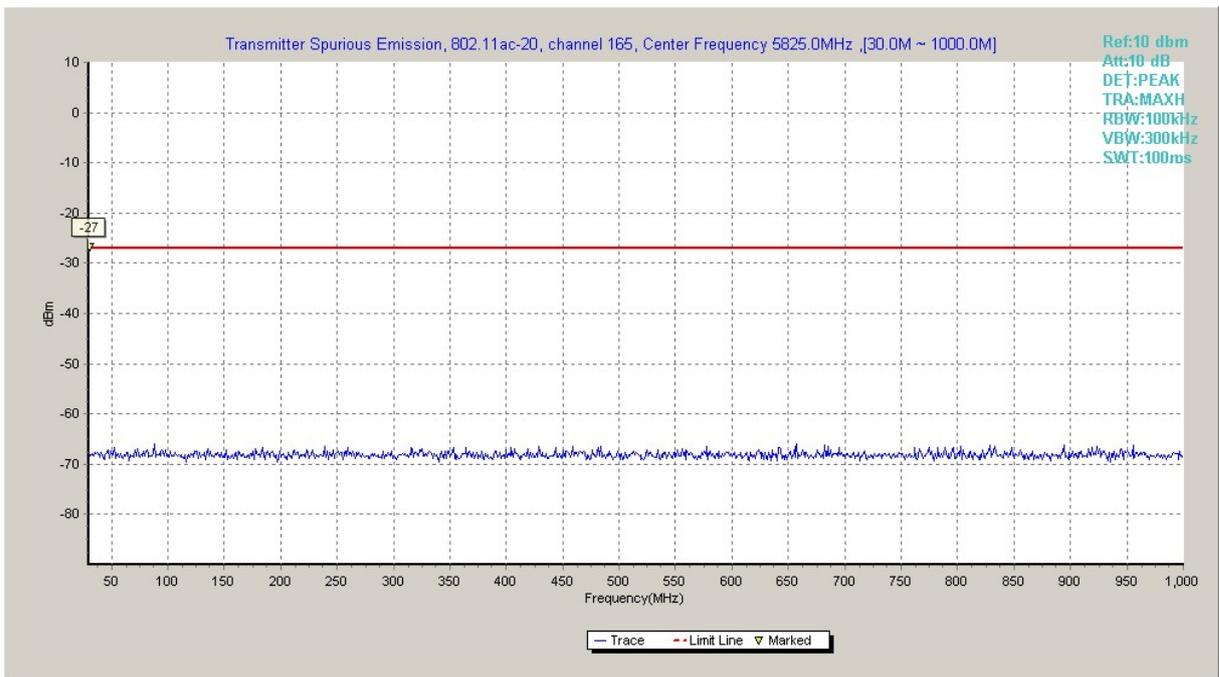


Fig. 47 Conducted Spurious Emission (802.11ac-HT20, Ch165, 30 MHz-1 GHz)

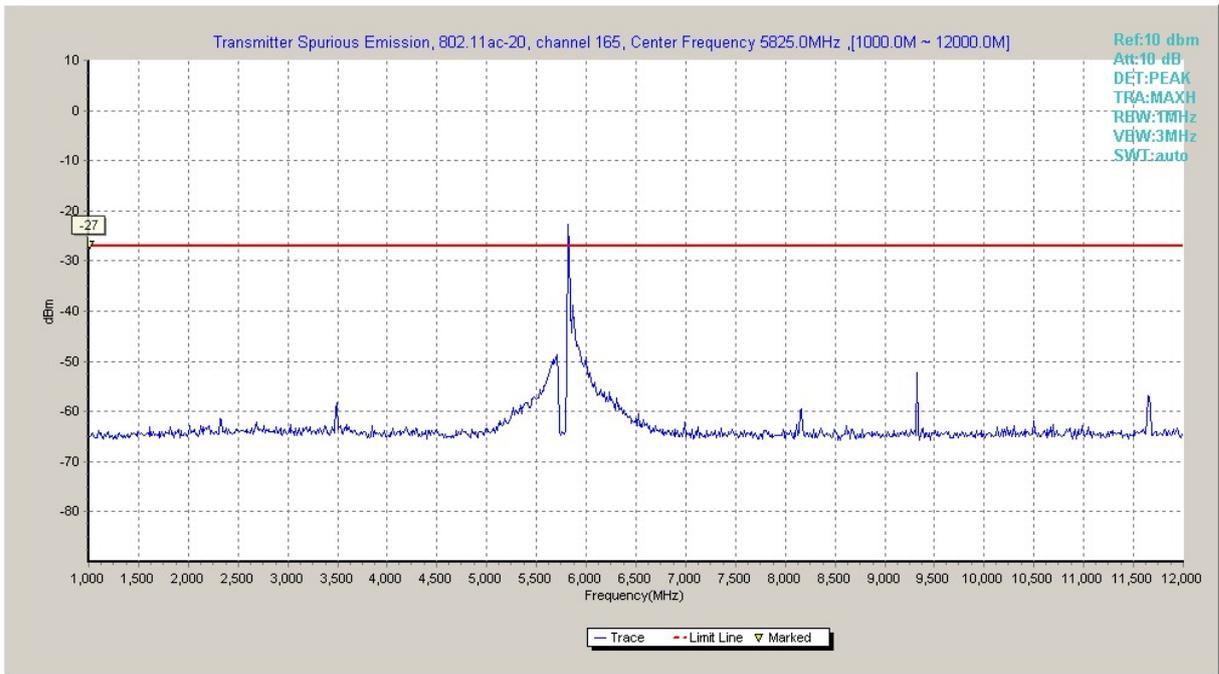


Fig. 48 Conducted Spurious Emission (802.11ac-HT20, Ch165, 1 GHz -12 GHz)

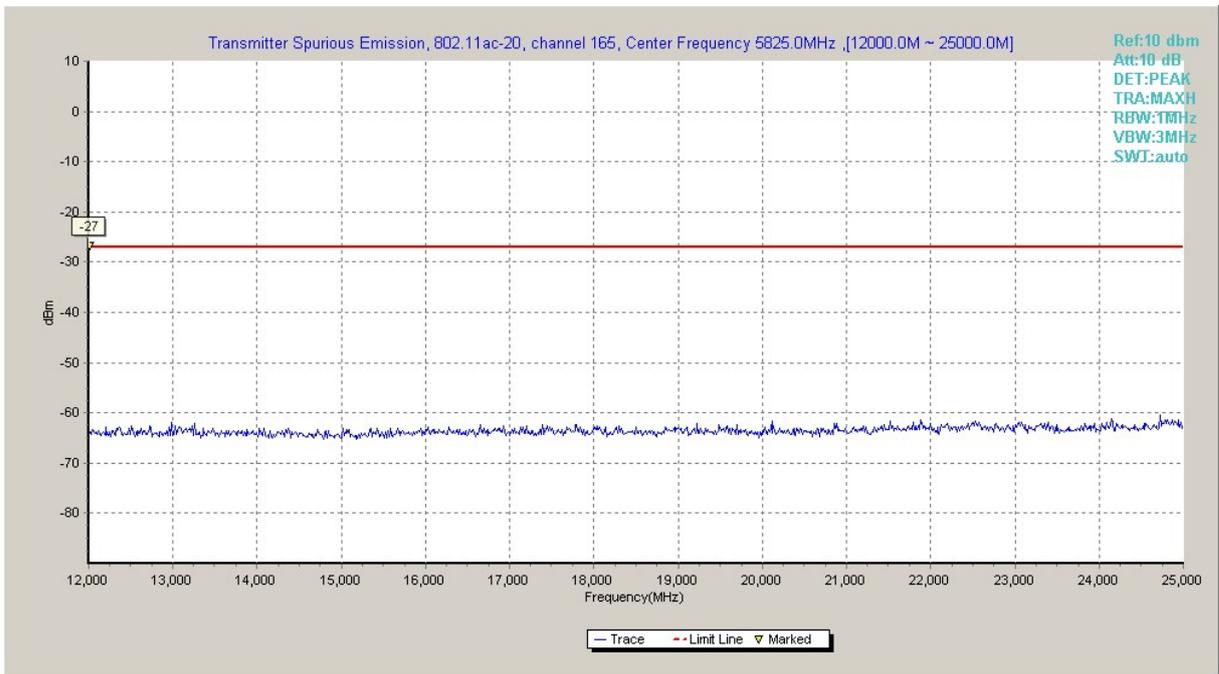


Fig. 49 Conducted Spurious Emission (802.11ac-HT20, Ch165, 12 GHz-25 GHz)

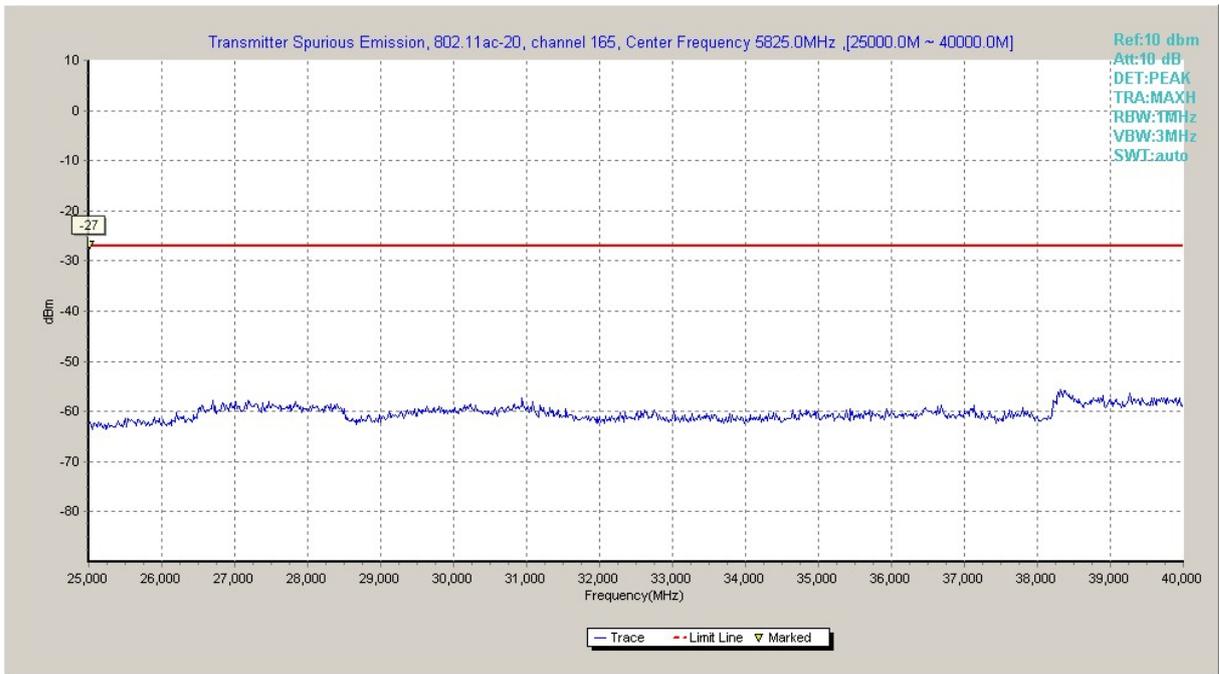


Fig. 50 Conducted Spurious Emission (802.11ac-HT20, Ch165, 25 GHz-40 GHz)

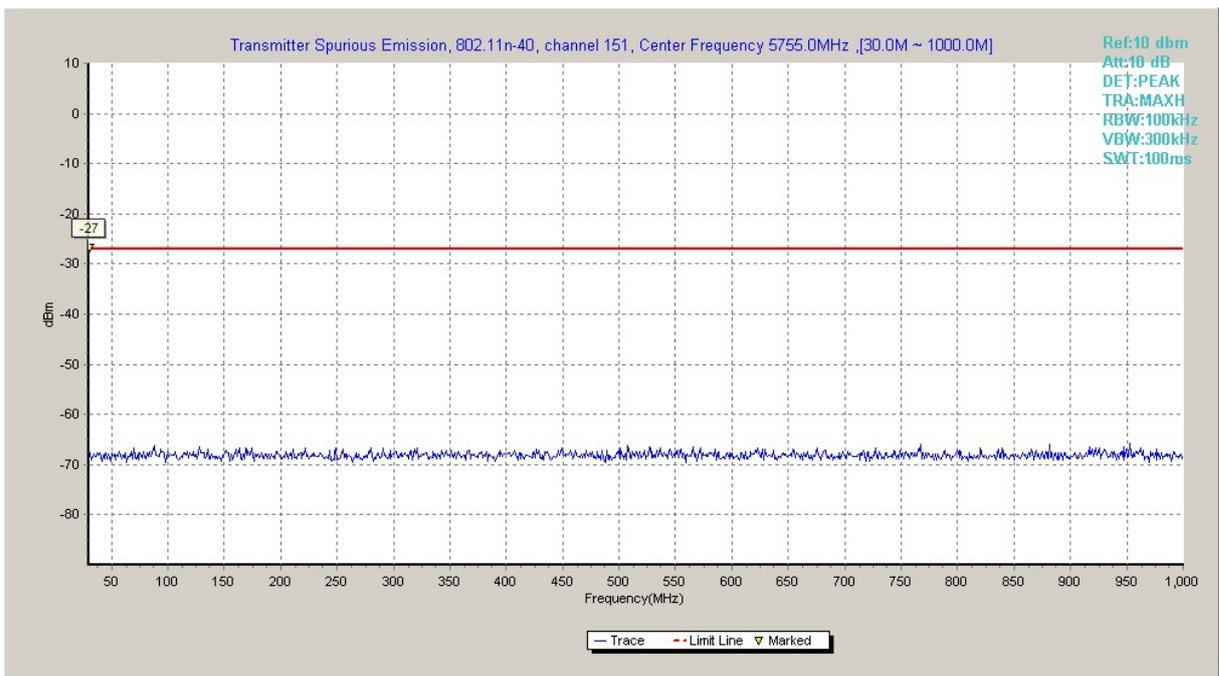


Fig. 51 Conducted Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

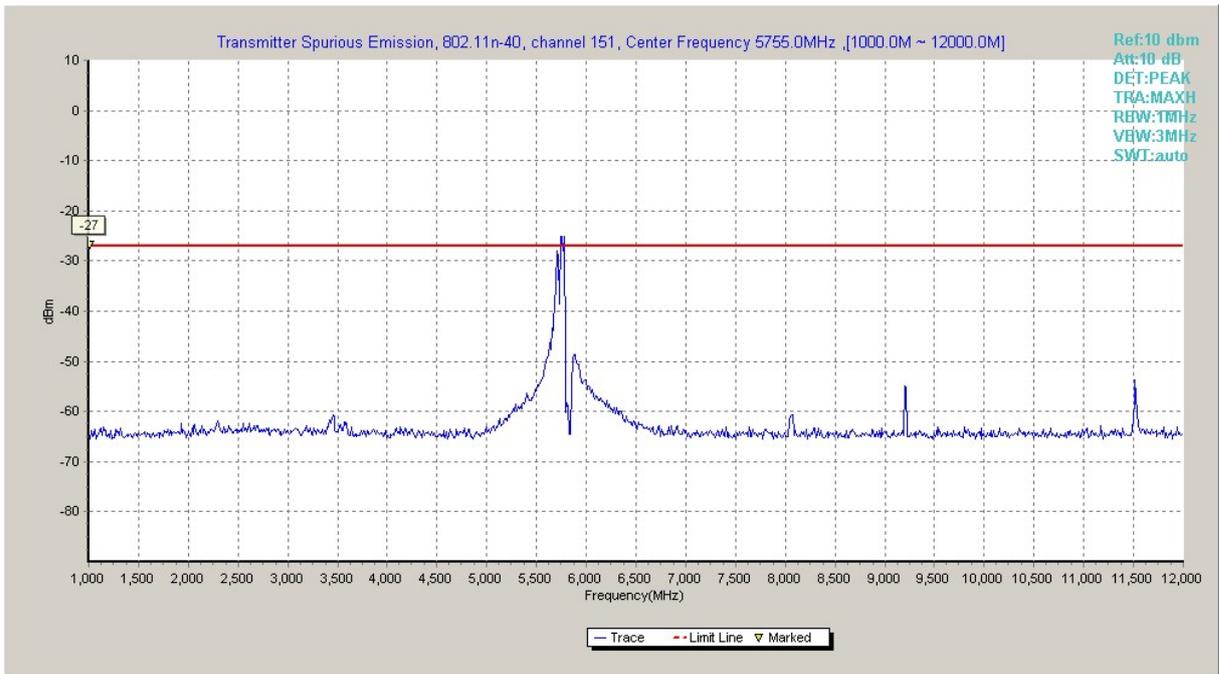


Fig. 52 Conducted Spurious Emission (802.11n-HT40, Ch151, 1 GHz -12 GHz)

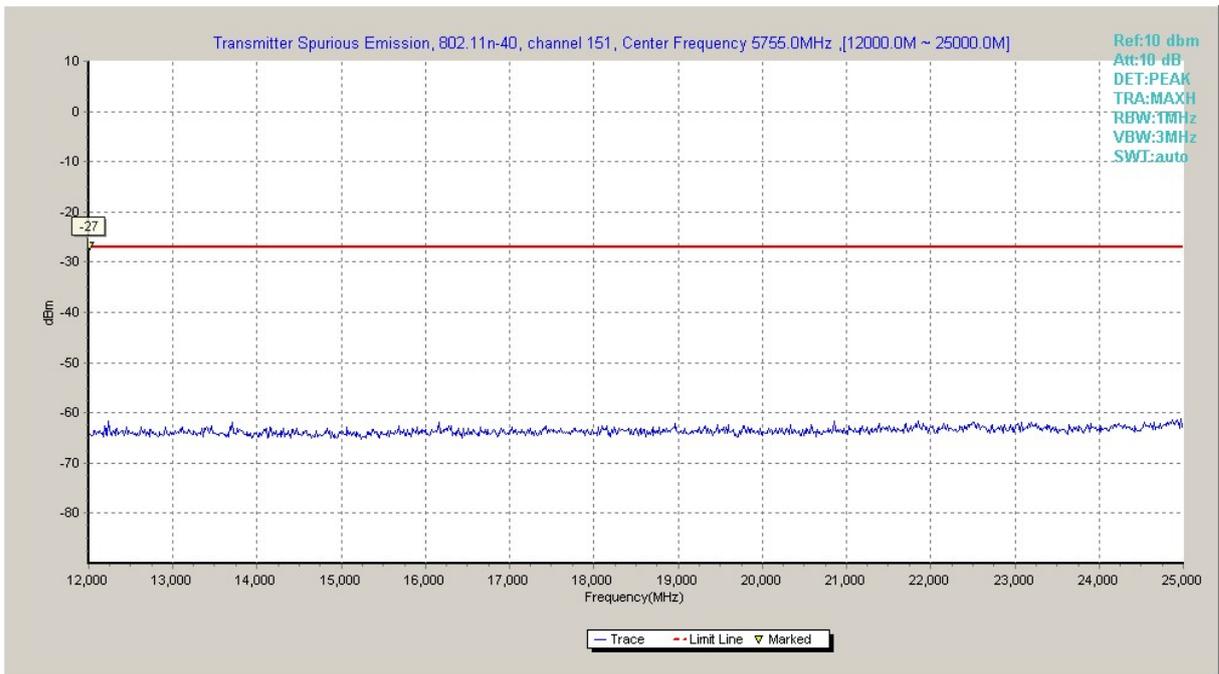


Fig. 53 Conducted Spurious Emission (802.11n-HT40, Ch151, 12 GHz-25 GHz)

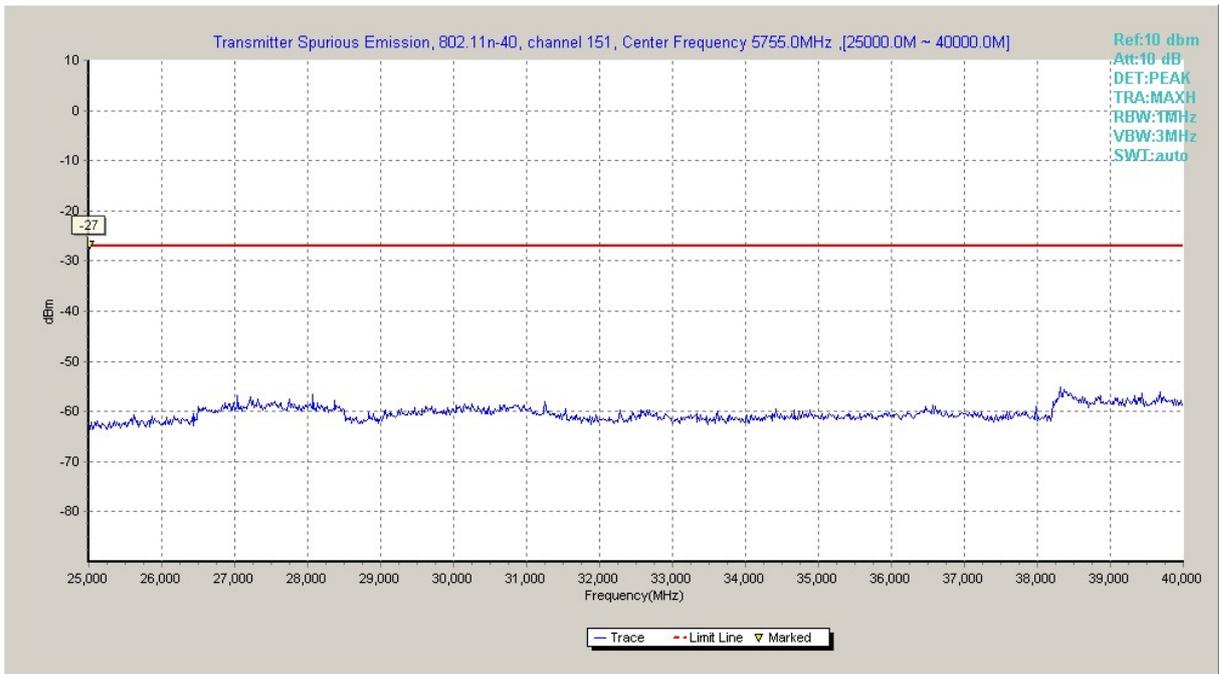


Fig. 54 Conducted Spurious Emission (802.11n-HT40, Ch151, 25 GHz-40 GHz)

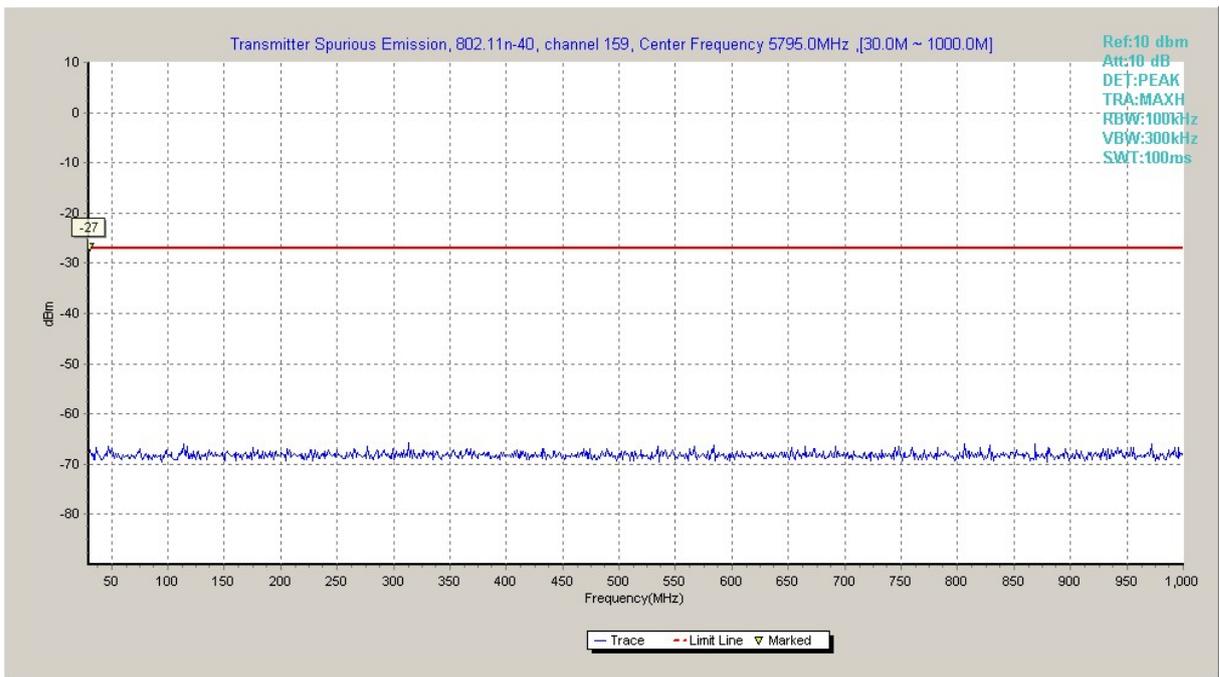


Fig. 55 Conducted Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)

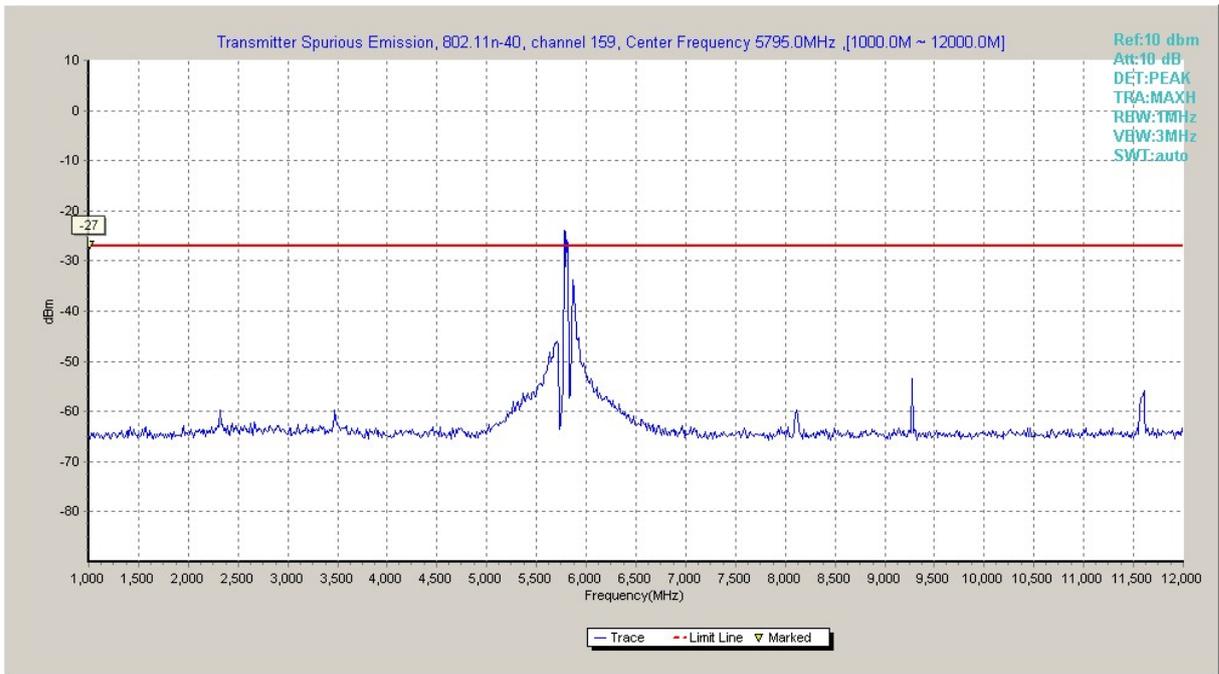


Fig. 56 Conducted Spurious Emission (802.11n-HT40, Ch159, 1 GHz -12 GHz)

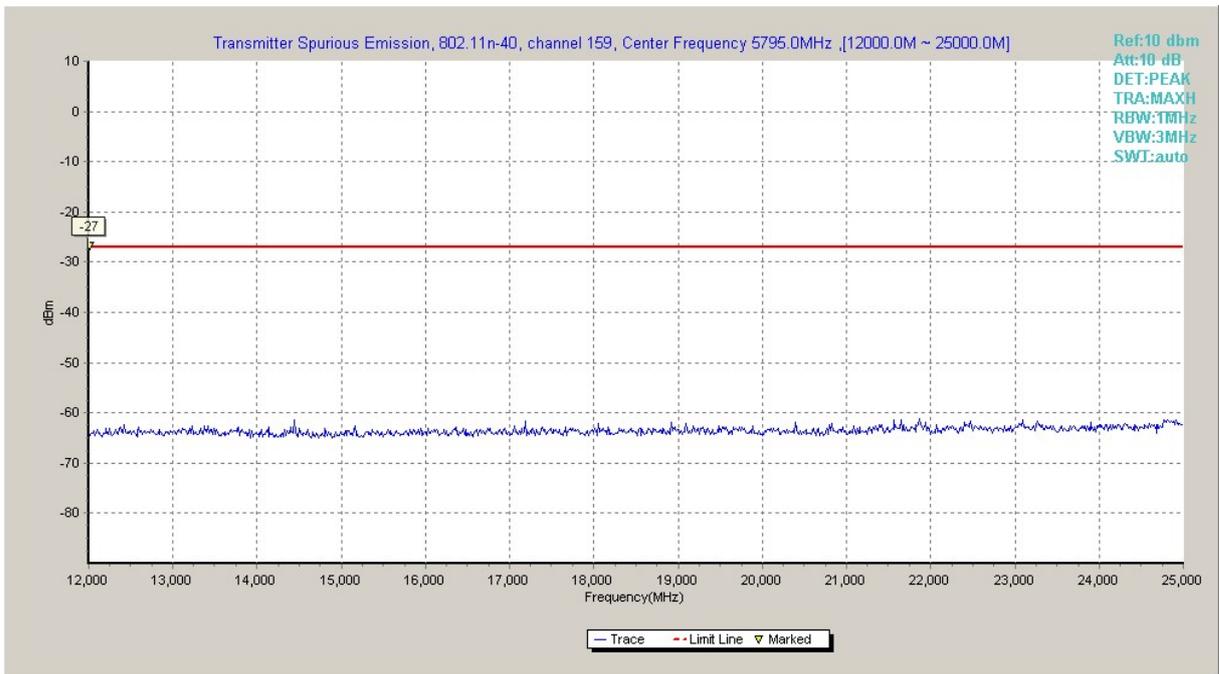


Fig. 57 Conducted Spurious Emission (802.11n-HT40, Ch159, 12 GHz-25 GHz)

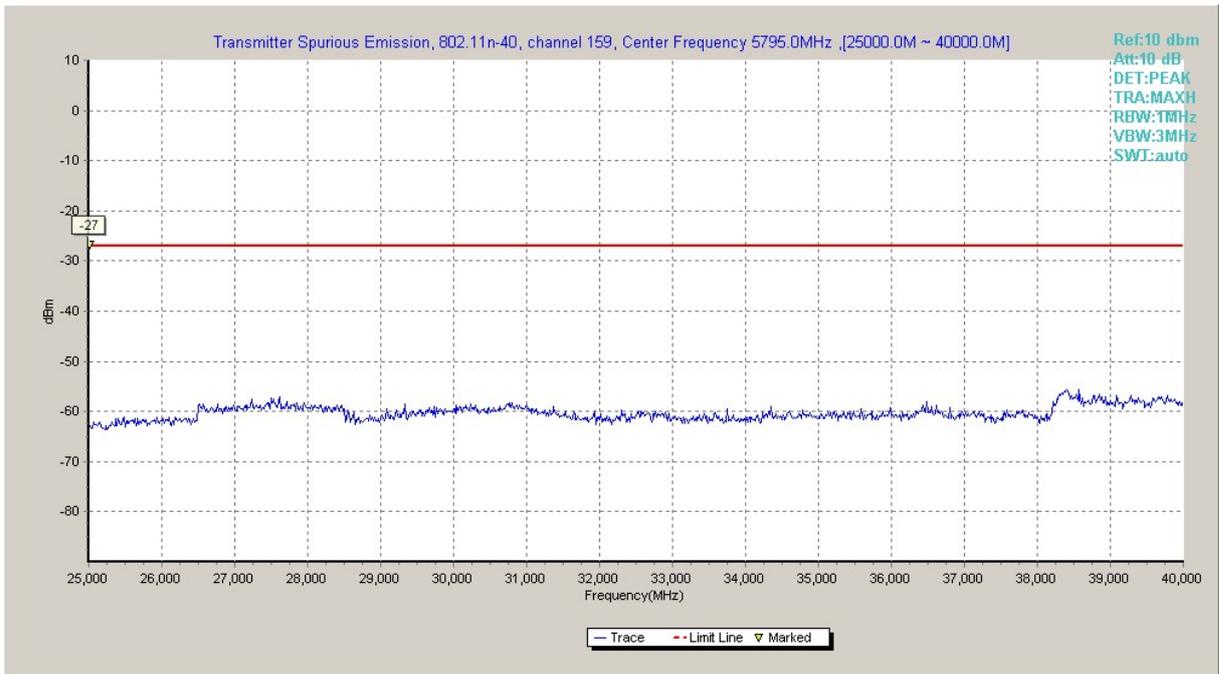


Fig. 58 Conducted Spurious Emission (802.11n-HT40, Ch159, 25 GHz-40 GHz)

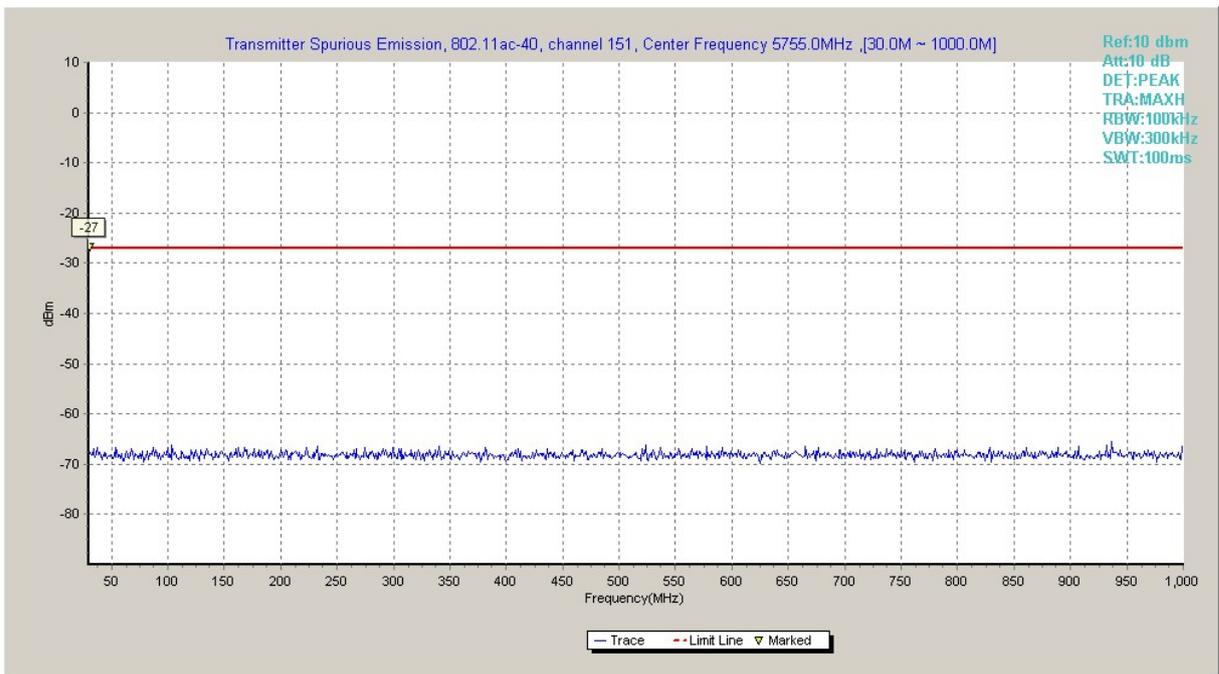


Fig. 59 Conducted Spurious Emission (802.11ac-HT40, Ch151, 30 MHz-1 GHz)

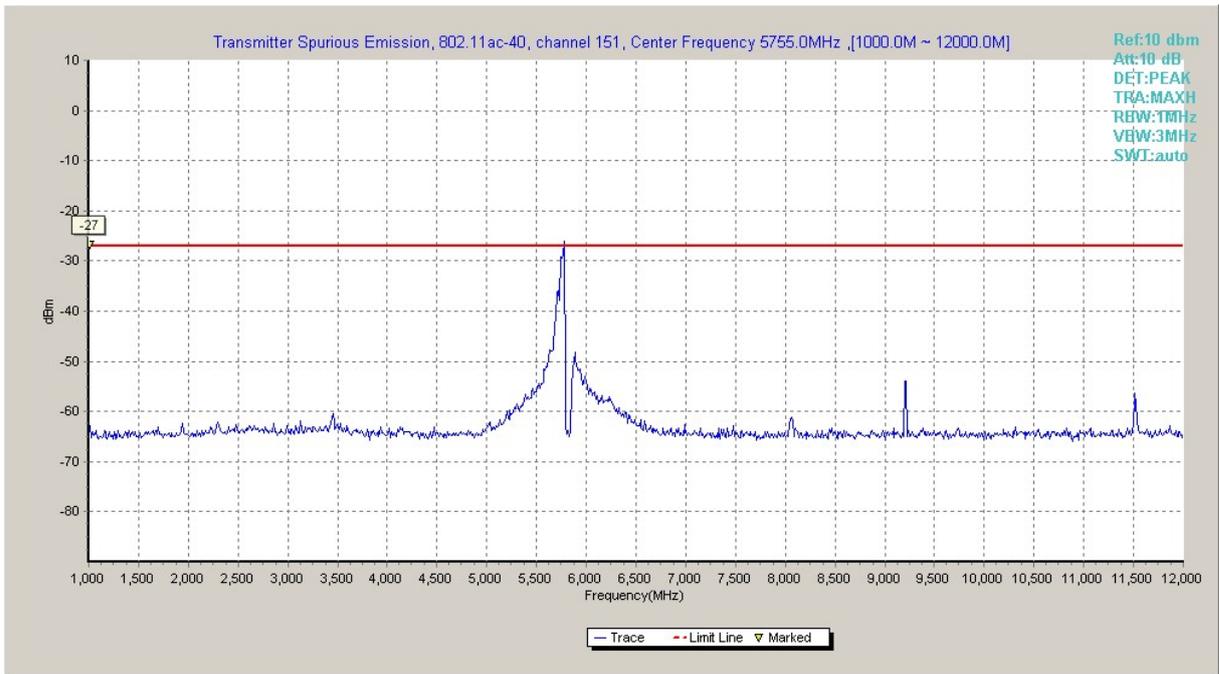


Fig. 60 Conducted Spurious Emission (802.11ac-HT40, Ch151, 1 GHz -12 GHz)

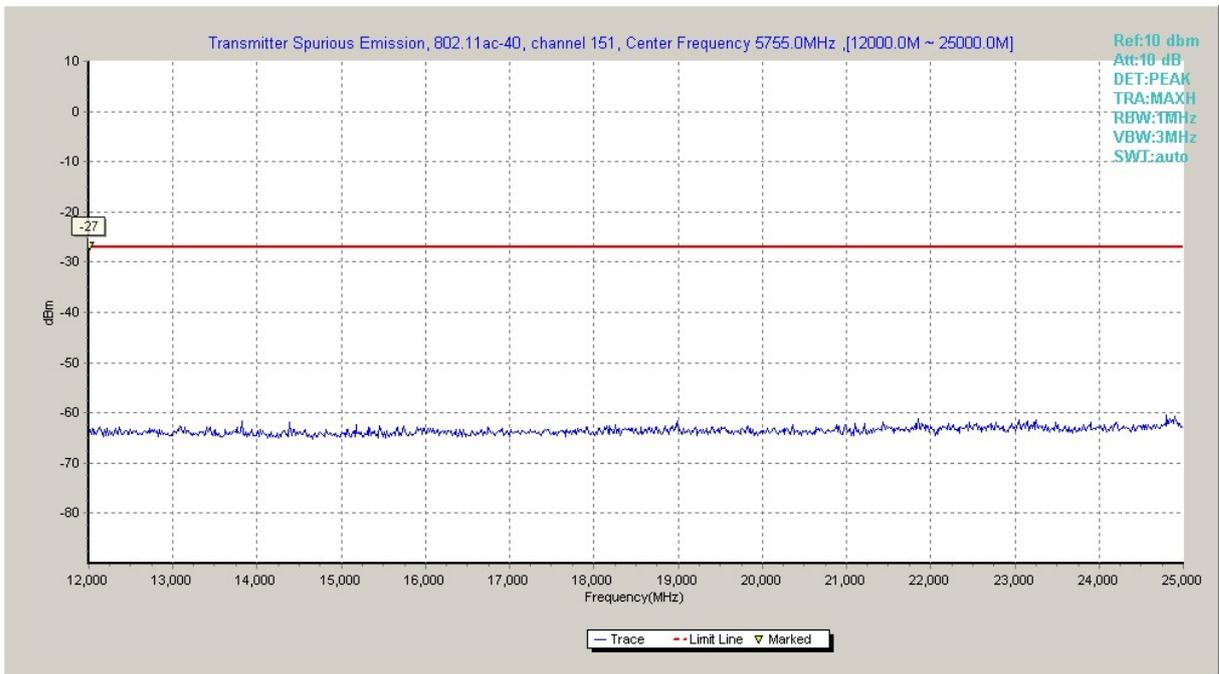


Fig. 61 Conducted Spurious Emission (802.11ac-HT40, Ch151, 12 GHz-25 GHz)

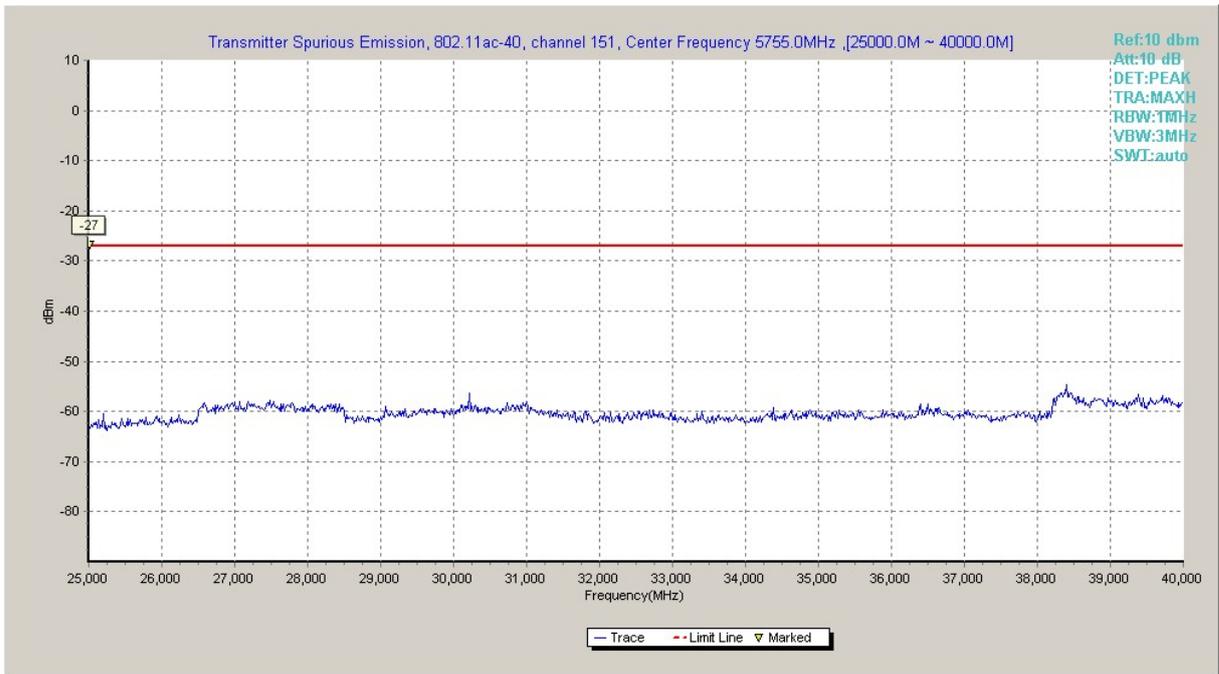


Fig. 62 Conducted Spurious Emission (802.11ac-HT40, Ch151, 25 GHz-40 GHz)

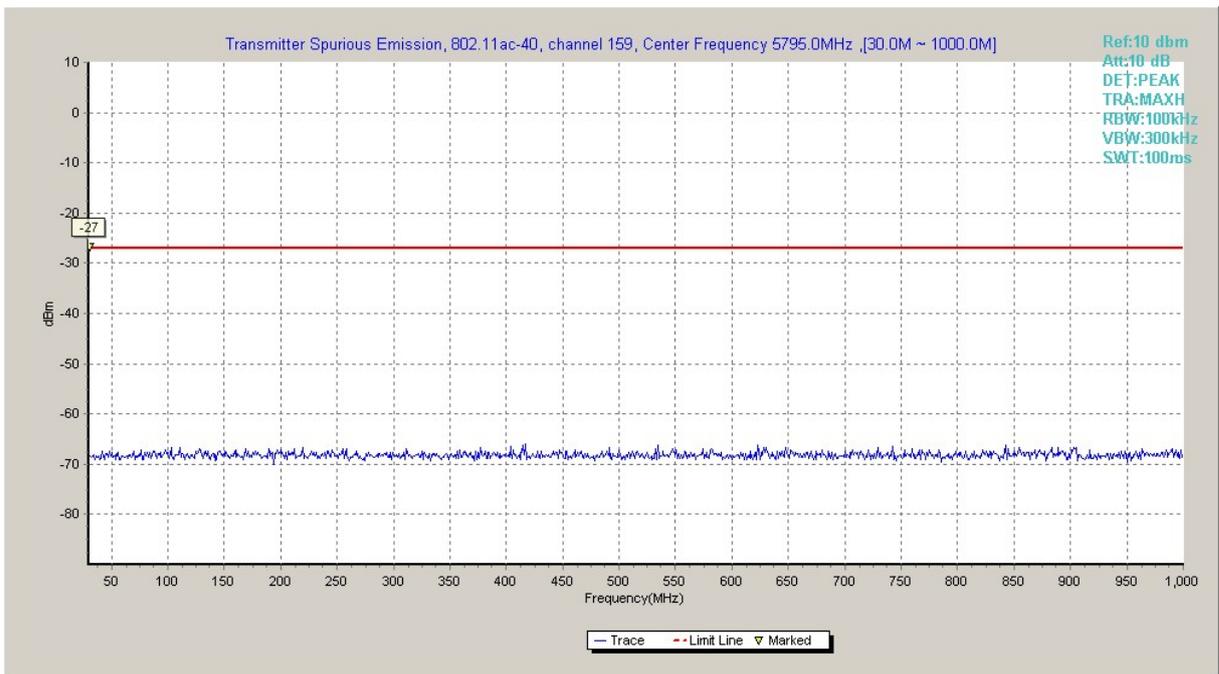


Fig. 63 Conducted Spurious Emission (802.11ac-HT40, Ch159, 30 MHz-1 GHz)

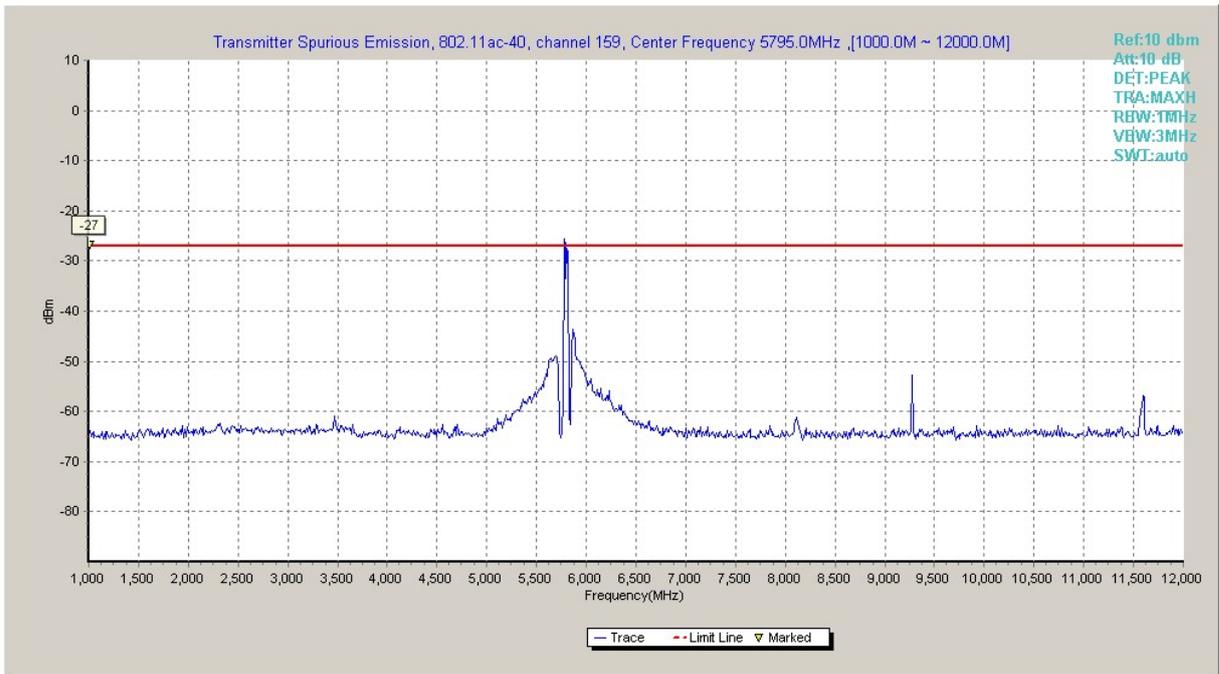


Fig. 64 Conducted Spurious Emission (802.11ac-HT40, Ch159, 1 GHz -12 GHz)

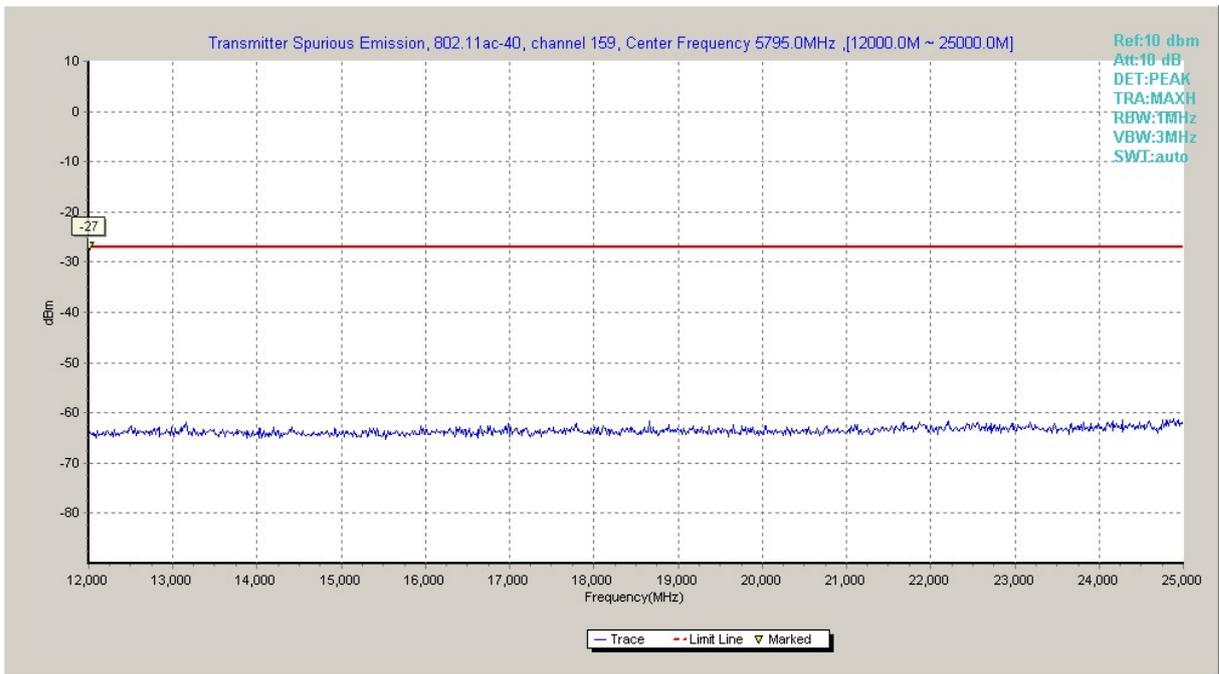


Fig. 65 Conducted Spurious Emission (802.11ac-HT40, Ch159, 12 GHz-25 GHz)

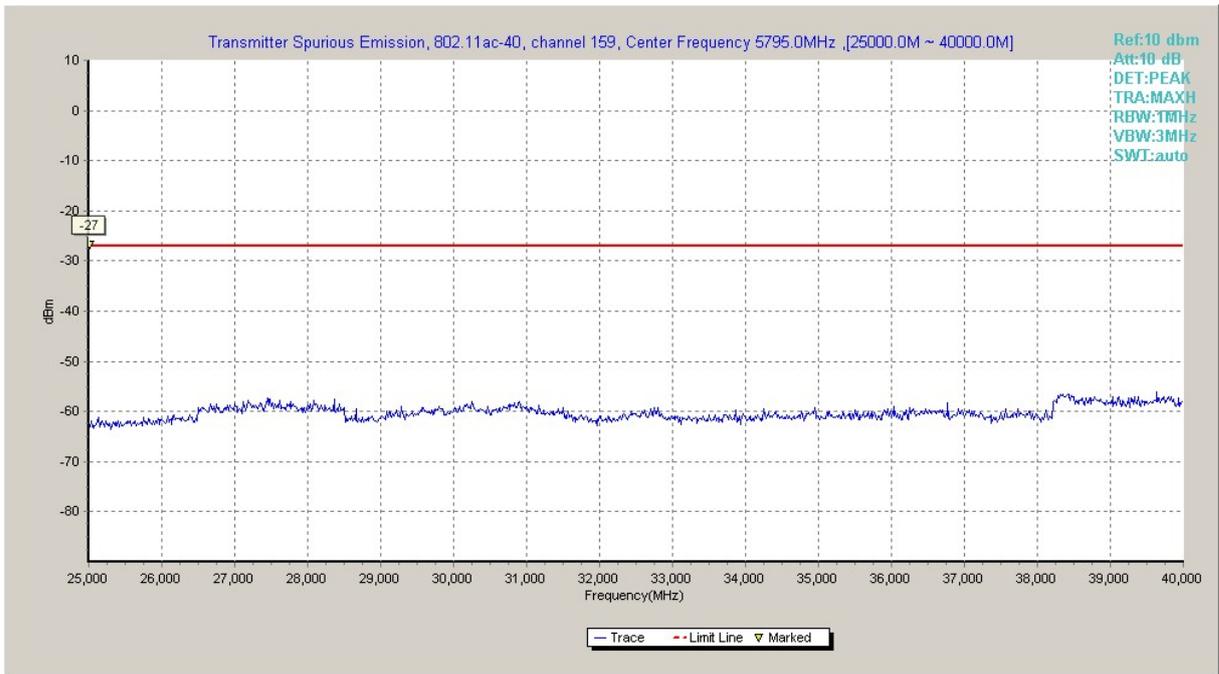


Fig. 66 Conducted Spurious Emission (802.11ac-HT40, Ch159, 25 GHz-40 GHz)

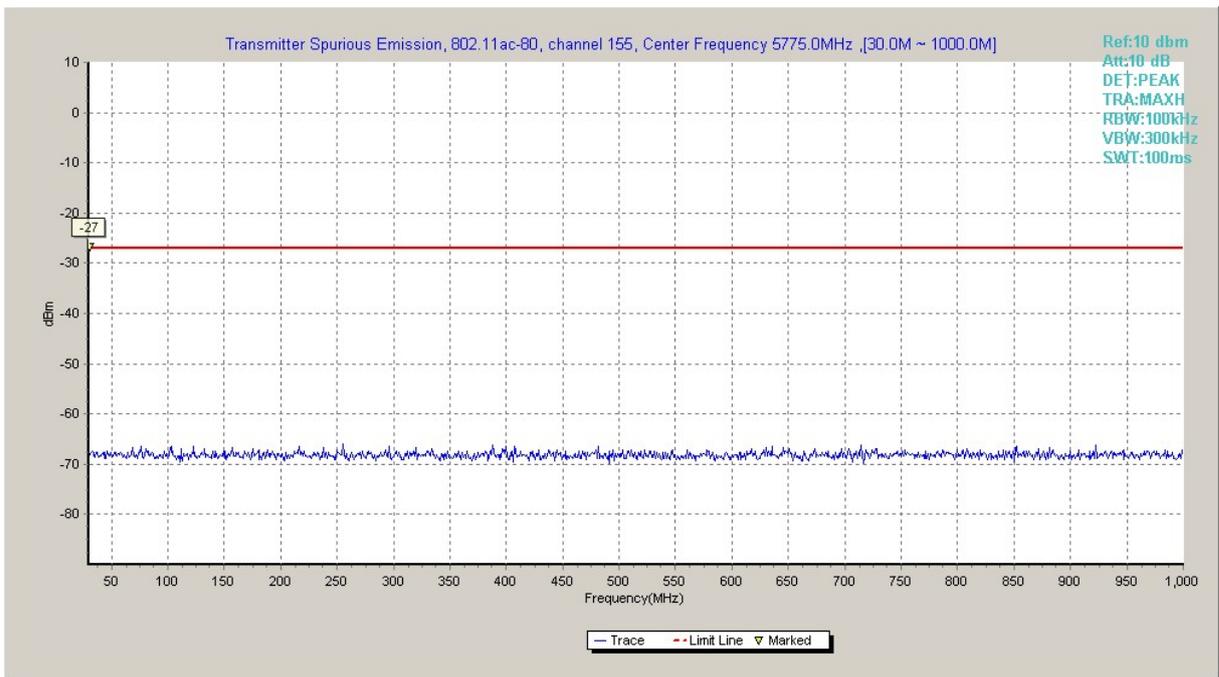


Fig. 67 Conducted Spurious Emission (802.11ac-HT80, Ch155, 30 MHz-1 GHz)

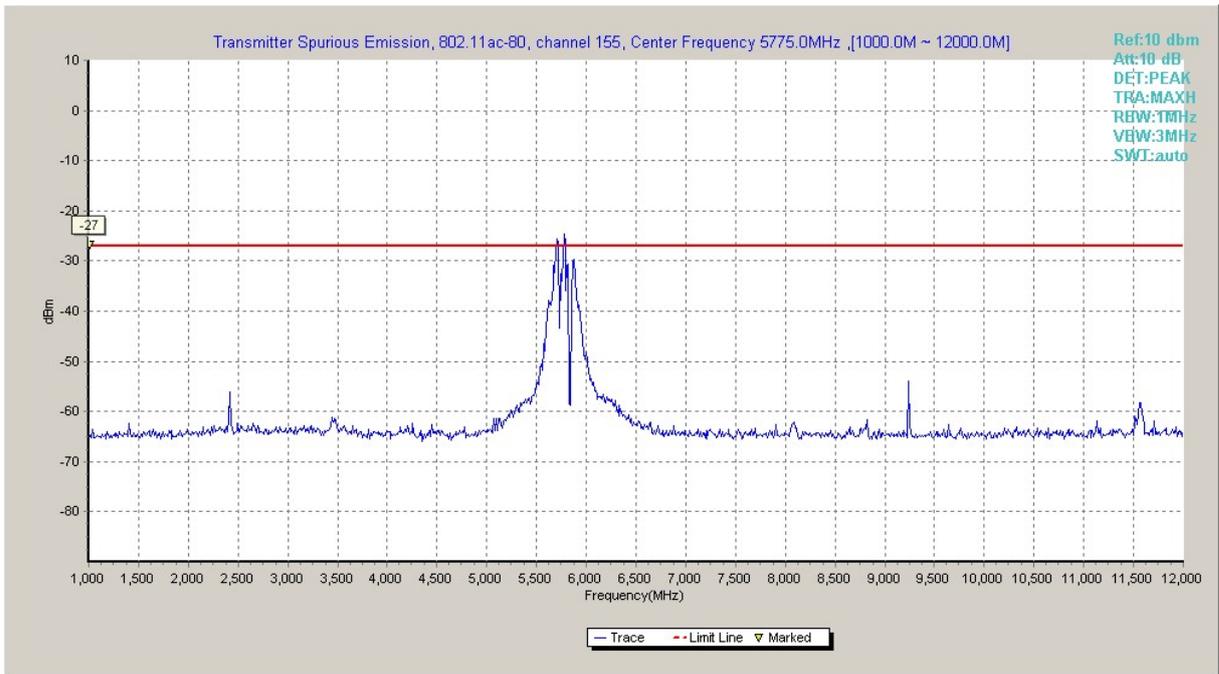


Fig. 68 Conducted Spurious Emission (802.11ac-HT80, Ch155, 1 GHz -12 GHz)

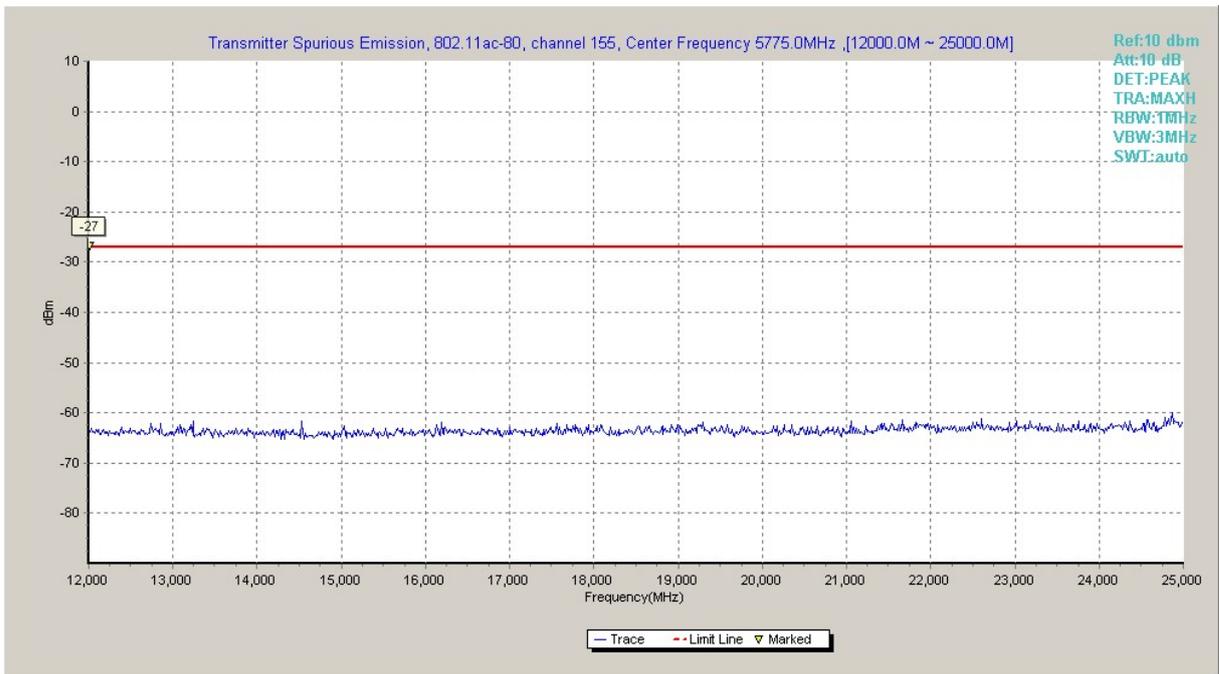


Fig. 69 Conducted Spurious Emission (802.11ac-HT80, Ch155, 12 GHz-25 GHz)

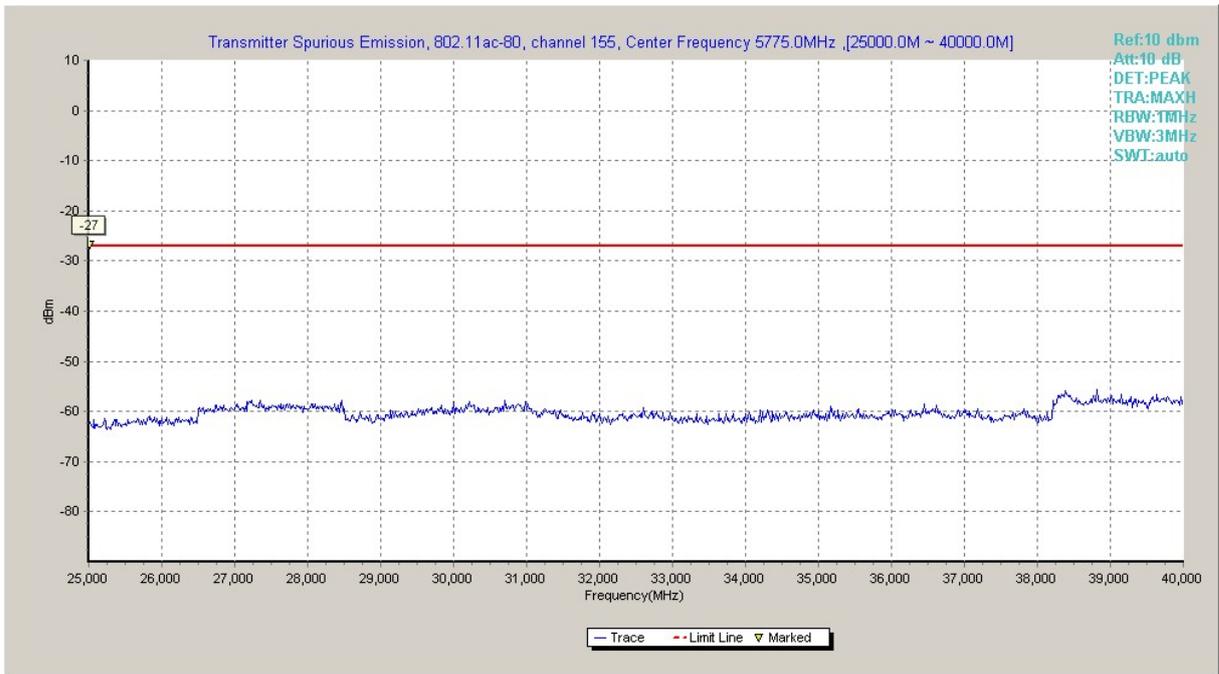


Fig. 70 Conducted Spurious Emission (802.11ac-HT80, Ch155, 25 GHz-40 GHz)

A.5.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

The measurement is made according to KDB 789033

Frequency Range	Uncertainty(dB)
$f \leq 1\text{GHz}$	5.40
$f > 1\text{GHz}$	4.32

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11a	149	1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
	157	30 MHz ~ 1 GHz	---	P	
		1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
		18 GHz ~ 26.5 GHz	---	P	
	165	26.5 GHz ~ 40 GHz	---	P	
		165	1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
	157	157	30 MHz ~1 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P
			18 GHz ~ 26.5 GHz	---	P
	165	165	26.5 GHz~ 40 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT40)	151	30 MHz ~1 GHz	---	P	
		1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
		18 GHz ~ 26.5 GHz	---	P	
		26.5 GHz~ 40 GHz	---	P	
	159	159	1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
	157	157	30 MHz ~1 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P
			18 GHz ~ 26.5 GHz	---	P
	165	165	26.5 GHz~ 40 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT80)	155	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Average Results:
802.11a
Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5651.200	36.4	-33.0	34.7	34.71	49.1	12.7	H	155	24
5652.400	36.4	-33.0	34.7	34.64	50.0	13.6	H	155	336
11470.200	41.2	-30.7	38.2	33.78	48.3	7.1	H	155	248
17235.500	38.1	-26.6	41.5	23.24	48.3	10.2	H	155	268
17616.100	38.3	-26.5	41.2	23.55	48.3	10.0	H	155	290
17892.200	38.5	-26.2	41.3	23.48	48.3	9.8	H	155	300

Ch157

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5723.200	36.6	-33.6	34.8	35.31	48.3	11.7	H	155	92
5909.600	36.9	-32.4	35.1	34.26	48.3	11.4	H	155	115
11570.500	39.2	-30.8	38.3	31.69	48.3	9.1	H	155	174
17355.400	38.1	-26.6	41.3	23.39	48.3	10.2	H	155	195
17623.800	38.3	-26.5	41.2	23.58	48.3	10.0	H	155	2
17890.000	38.4	-26.2	41.3	23.38	48.3	9.9	H	155	25

Ch165

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.800	36.7	-32.5	35.1	34.05	49.8	13.2	H	155	8
5924.400	36.7	-32.5	35.1	34.12	48.6	11.9	H	155	56
11649.700	39.5	-30.6	38.4	31.77	48.3	8.8	H	155	139
17475.300	37.5	-26.3	41.2	22.55	48.3	10.8	H	155	108
17617.200	38.4	-26.5	41.2	23.60	48.3	9.9	H	155	78
17657.900	38.1	-26.5	41.2	23.38	48.3	10.2	H	155	36



802.11n-HT20
Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.800	36.3	-33.0	34.7	34.62	68.8	32.5	H	155	268
5653.600	36.5	-33.0	34.7	34.71	70.9	34.4	H	155	138
11488.000	40.1	-30.8	38.2	32.74	48.3	8.2	H	155	104
17235.500	38.2	-26.6	41.5	23.29	48.3	10.1	H	155	40
17320.200	38.3	-26.7	41.4	23.68	48.3	10.0	H	155	28
17642.500	38.2	-26.5	41.2	23.46	48.3	10.1	H	155	8

Ch157

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5671.200	37.0	-32.6	34.7	34.88	48.3	11.3	H	155	16
5920.400	36.8	-32.5	35.1	34.19	48.3	11.5	H	155	48
11569.400	38.9	-30.8	38.3	31.45	48.3	9.4	H	155	80
17355.400	38.1	-26.6	41.3	23.40	48.3	10.2	H	155	8
17612.800	38.3	-26.5	41.2	23.57	48.3	10.0	H	155	102
17891.100	38.4	-26.2	41.3	23.37	48.3	9.9	H	155	118

Ch165

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.400	36.6	-32.5	35.1	34.01	50.1	13.5	H	155	28
5924.400	36.6	-32.5	35.1	33.98	48.6	12.1	H	155	46
11647.500	38.3	-30.7	38.4	30.54	48.3	10.0	H	155	8
17475.300	37.5	-26.3	41.2	22.56	48.3	10.8	H	155	6
17615.000	38.3	0.0	0.0	38.27	48.3	10.0	H	155	24
17892.200	38.6	-26.2	41.3	23.53	48.3	9.7	H	155	185



802.11n-HT40
Ch151

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.000	36.1	-33.1	34.7	34.48	48.2	12.1	H	155	20
5651.200	36.1	-33.0	34.7	34.46	49.1	12.9	H	155	248
11505.600	38.7	-30.8	38.2	31.35	48.3	9.6	H	155	49
17265.200	38.2	-26.8	41.4	23.57	48.3	10.1	H	155	82
17623.800	38.2	-26.5	41.2	23.47	48.3	10.1	H	155	168
17903.200	38.5	-26.2	41.3	23.35	48.3	9.8	H	155	8

Ch159

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.800	36.5	-32.5	35.1	33.89	49.8	13.3	H	155	4
5924.800	36.6	-32.5	35.1	33.99	48.3	11.8	H	155	26
11590.300	38.3	-30.8	38.3	30.77	48.3	10.0	H	155	356
17385.100	38.1	-26.5	41.3	23.28	48.3	10.2	H	155	348
17583.100	38.0	-26.4	41.2	23.25	48.3	10.3	H	155	174
17676.600	38.1	-26.5	41.2	23.34	48.3	10.2	H	155	112

802.11ac-HT20
Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.000	36.2	-33.1	34.7	34.49	48.2	12.0	H	155	28
5653.200	36.3	-33.0	34.7	34.59	50.6	14.2	H	155	248
11490.200	37.0	-30.8	38.2	29.64	48.3	11.3	H	155	38
17235.500	38.1	-26.6	41.5	23.28	48.3	10.2	H	155	98
17630.400	38.3	-26.5	41.2	23.60	48.3	10.0	H	155	183
17869.100	38.3	-26.3	41.3	23.30	48.3	10.0	H	155	356

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5668.400	36.8	-32.6	34.7	34.71	48.3	11.5	H	155	20
5898.400	36.9	-32.4	35.1	34.20	48.3	11.4	H	155	18
11570.500	37.1	-30.8	38.3	29.68	48.3	11.2	H	155	90
17355.400	38.2	-26.6	41.3	23.45	48.3	10.1	H	155	114
17578.700	38.1	-26.4	41.2	23.26	48.3	10.3	H	155	36
17953.800	38.4	-26.0	41.3	23.02	48.3	9.9	H	155	2

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5923.600	36.6	-32.5	35.1	33.95	49.2	12.7	H	155	8
5924.800	36.5	-32.5	35.1	33.95	48.3	11.8	H	155	52
11649.700	37.0	-30.6	38.4	29.26	54.0	17.0	H	155	18
17475.300	37.6	-26.3	41.2	22.70	54.0	16.4	H	155	6
16969.300	38.8	-26.9	41.7	24.06	54.0	15.2	H	155	48
17910.900	38.5	-26.1	41.3	23.32	54.0	15.5	H	155	128

802.11ac-HT40

Ch151

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5651.200	36.5	-33.0	34.7	34.80	49.1	12.6	H	155	92
5653.600	36.5	-33.0	34.7	34.79	50.9	14.3	H	155	26
11510.000	37.1	-30.8	38.2	29.76	48.3	11.2	H	155	222
17265.200	38.2	-26.8	41.4	23.49	48.3	10.1	H	155	248
17621.600	38.2	-26.5	41.2	23.47	48.3	10.1	H	155	46
17935.100	38.5	-26.0	41.3	23.21	48.3	9.8	H	155	68



Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.400	36.5	-32.5	35.1	33.91	50.1	13.6	H	155	8
5924.800	36.4	-32.5	35.1	33.82	48.3	11.9	H	155	28
11590.300	37.2	-30.8	38.3	29.68	48.3	11.1	H	155	119
17385.100	38.1	-26.5	41.3	23.32	48.3	10.2	H	155	146
16945.100	38.9	-27.1	41.7	24.27	48.3	9.4	H	155	76
17902.100	38.4	-26.2	41.3	23.27	48.3	9.9	H	155	94

802.11ac-HT80

Ch155

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.000	36.2	-33.1	34.7	34.53	48.3	12.1	H	155	25
5652.400	36.4	-33.0	34.7	34.66	48.3	11.9	H	155	356
11549.600	37.2	-30.8	38.3	29.72	48.3	11.1	H	155	350
17324.600	38.3	-26.7	41.4	23.64	48.3	10.0	H	155	185
17621.600	38.3	-26.5	41.2	23.59	48.3	10.0	H	155	116
17912.000	38.4	-26.1	41.3	23.27	48.3	9.9	H	155	8



Peak Results:
802.11a
Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.805	56.1	-33.0	34.7	54.42	68.8	12.7	H	155	22
5653.588	56.3	-33.0	34.7	54.60	70.9	14.5	H	155	330
11492.400	55.8	-30.8	38.2	48.40	68.3	12.5	H	155	242
17234.950	52.7	-26.6	41.5	37.82	68.3	15.6	V	155	264
17531.950	55.0	-26.4	41.2	40.12	68.3	13.3	V	155	286
17851.500	54.7	-26.4	41.3	39.84	68.3	13.6	V	155	308

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5678.800	58.6	-32.7	34.8	56.57	68.3	9.7	V	155	88
5966.400	49.8	-32.9	35.2	47.56	68.3	18.5	H	155	110
11569.950	51.6	-30.8	38.3	44.16	68.3	16.7	V	155	176
17354.850	53.8	-26.6	41.3	39.09	68.3	14.5	V	155	198
17539.100	55.4	-26.4	41.2	40.57	68.3	12.9	H	155	0
17781.100	54.1	-26.5	41.3	39.43	68.3	14.2	V	155	22

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5920.630	59.9	-32.5	35.1	57.32	71.4	11.5	H	155	0
5924.839	58.0	-32.5	35.1	55.38	68.3	10.3	H	155	44
11646.400	52.6	-30.7	38.4	44.87	68.3	15.7	H	155	132
17474.750	53.8	-26.3	41.2	38.88	68.3	14.5	V	155	110
17628.750	54.8	-26.5	41.2	40.09	68.3	13.5	H	155	88
17823.450	55.7	-26.5	41.3	40.93	68.3	12.6	H	155	44



802.11n-HT20
Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5651.173	57.6	-33.0	34.7	55.87	69.1	11.5	H	155	264
5652.818	57.6	-33.0	34.7	55.84	70.3	12.7	H	155	132
11491.850	54.1	-30.8	38.2	46.74	68.3	14.2	H	155	110
17234.950	52.4	-26.6	41.5	37.58	68.3	15.9	H	155	44
17624.900	54.3	-26.5	41.2	39.56	68.3	14.0	H	155	22
17876.250	54.7	-26.3	41.3	39.72	68.3	13.6	V	155	0

Ch157

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5688.800	60.8	-32.9	34.8	58.96	68.3	7.5	H	155	22
5870.400	61.8	-33.0	35.0	59.69	68.3	6.5	H	155	44
11569.950	52.8	-30.8	38.3	45.37	68.3	15.5	V	155	88
17354.850	53.0	-26.6	41.3	38.30	68.3	15.3	V	155	0
17606.750	55.4	-26.5	41.2	40.64	68.3	12.9	H	155	110
17665.600	55.8	-26.5	41.2	41.04	68.3	12.5	H	155	132

Ch165

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.585	46.3	-32.5	35.1	43.73	70.0	23.6	H	155	22
5923.931	45.8	-32.5	35.1	43.23	69.0	23.2	H	155	44
11649.700	51.6	-30.6	38.4	43.84	68.3	16.7	V	155	0
17474.750	52.2	-26.3	41.2	37.31	68.3	16.1	H	155	0
17657.900	54.7	-26.5	41.2	40.00	68.3	13.6	V	155	22
17860.850	54.9	-26.3	41.3	39.93	68.3	13.4	H	155	176



802.11n-HT40
Ch151

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.357	49.5	-33.0	34.7	47.79	68.5	19.0	H	155	22
5651.760	50.2	-33.0	34.7	48.53	69.5	19.3	V	155	242
11510.000	52.5	-30.8	38.2	45.17	68.3	15.8	H	155	44
17265.200	53.3	-26.8	41.4	38.57	68.3	15.0	V	155	88
17464.300	55.2	-26.3	41.2	40.25	68.3	13.1	V	155	176
17621.600	54.6	-26.5	41.2	39.85	68.3	13.7	V	155	0

Ch159

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.345	47.7	-32.5	35.1	45.11	70.2	22.4	H	155	0
5924.471	46.8	-32.5	35.1	44.24	68.6	21.7	V	155	22
11589.750	50.4	-30.8	38.3	42.92	68.3	17.9	V	155	352
17385.100	54.3	-26.5	41.3	39.50	68.3	14.0	V	155	352
17553.950	55.6	-26.4	41.2	40.77	68.3	12.7	V	155	176
17661.200	54.5	-26.5	41.2	39.78	68.3	13.8	V	155	110

802.11ac-HT20
Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.644	58.4	-33.0	34.7	56.75	68.7	10.2	H	155	22
5651.564	58.2	-33.0	34.7	56.53	69.4	11.1	H	155	242
11490.200	50.4	-30.8	38.2	43.00	68.3	17.9	V	155	44
17234.950	52.8	-26.6	41.5	37.92	68.3	15.5	H	155	88
17573.200	55.8	-26.4	41.2	41.04	68.3	12.5	V	155	176
17902.100	56.1	-26.2	41.3	40.97	68.3	12.2	H	155	0



Ch157

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5654.400	47.0	-33.0	34.7	45.21	68.3	21.3	H	155	22
5933.400	47.1	-32.6	35.1	44.54	68.3	21.2	H	155	22
11569.950	51.0	-30.8	38.3	43.55	68.3	17.3	H	155	88
17354.850	53.7	-26.6	41.3	38.97	68.3	14.6	V	155	110
17622.150	55.4	-26.5	41.2	40.62	68.3	12.9	V	155	44
17975.800	55.6	-25.9	41.3	40.17	68.3	12.7	H	155	0

Ch165

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5923.183	46.6	-32.5	35.1	43.95	69.5	23.0	V	155	0
5924.563	46.6	-32.5	35.1	44.01	68.5	21.9	H	155	44
11650.250	50.2	-30.6	38.4	42.41	68.3	18.1	V	155	22
17474.750	52.1	-26.3	41.2	37.13	68.3	16.2	H	155	0
17722.250	55.4	-26.5	41.2	40.70	68.3	12.9	H	155	44
17952.700	55.3	-26.0	41.3	39.92	68.3	13.1	V	155	132

802.11ac-HT40

Ch151

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5651.500	49.3	-33.0	34.7	47.61	69.3	20.0	H	155	88
5652.335	57.6	-33.0	34.7	55.93	69.9	12.3	H	155	22
11510.000	50.2	-30.8	38.2	42.79	68.3	18.1	V	155	220
17265.200	52.3	-26.8	41.4	37.61	68.3	16.0	V	155	242
17560.550	54.9	-26.4	41.2	40.08	68.3	13.4	V	155	44
17892.200	55.1	-26.2	41.3	40.05	68.3	13.2	V	155	66



Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5922.527	53.6	-32.5	35.1	51.00	70.0	16.4	H	155	0
5922.826	52.3	-32.5	35.1	49.66	69.8	17.5	H	155	22
11589.750	49.7	-30.8	38.3	42.17	68.3	18.6	H	155	110
17385.100	53.5	-26.5	41.3	38.74	68.3	14.8	V	155	132
17635.900	55.4	-26.5	41.2	40.63	68.3	12.9	V	155	66
17947.750	55.1	-26.0	41.3	39.79	68.3	13.2	V	155	88

802.11ac-HT80

Ch155

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
5650.299	55.1	-33.0	34.7	53.39	68.3	13.2	H	155	22
5651.173	54.5	-33.0	34.7	52.79	68.3	13.8	H	155	352
11550.150	49.7	-30.8	38.3	42.23	68.3	18.6	V	155	352
17325.150	53.1	-26.7	41.4	38.47	68.3	15.2	V	155	176
17532.500	55.5	-26.4	41.2	40.63	68.3	12.8	V	155	110
17948.300	55.2	-26.0	41.3	39.90	68.3	13.1	V	155	0

A.6. Band Edges Compliance

A6.1 Band Edges - conducted

Measurement Limit:

Standard	Limit (dBm/MHz)
FCC 47 CFR Part 15.407(b)(4)	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The measurement is made according to KDB 789033 D02

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.71	P
	5825 MHz	Fig.72	P
802.11n HT20	5745 MHz	Fig.73	P
	5825 MHz	Fig.74	P
802.11ac HT20	5745 MHz	Fig.75	P
	5825 MHz	Fig.76	P
802.11n HT40	5755 MHz	Fig.77	P
	5795 MHz	Fig.78	P
802.11ac HT40	5755 MHz	Fig.79	P
	5795 MHz	Fig.80	P
802.11ac HT80	5775 MHz	Fig.81	P
	5775 MHz	Fig.82	P

Conclusion: PASS

Test graphs as below:

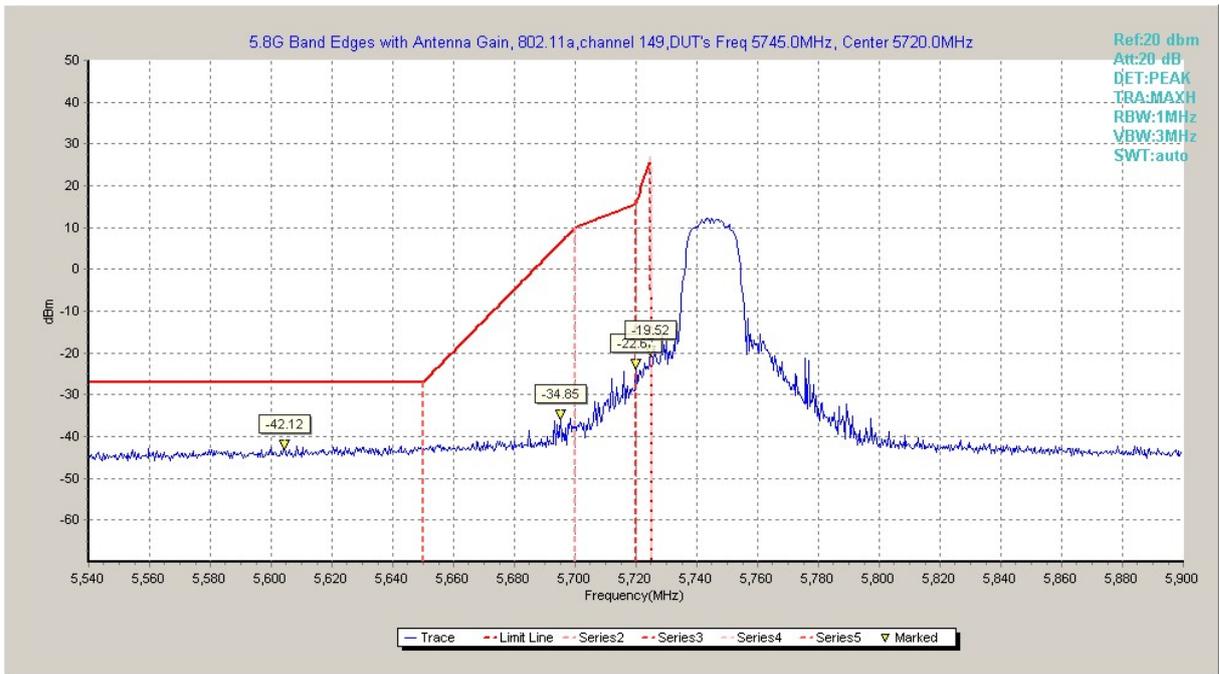


Fig. 71 Band Edges (802.11a, 5745MHz)

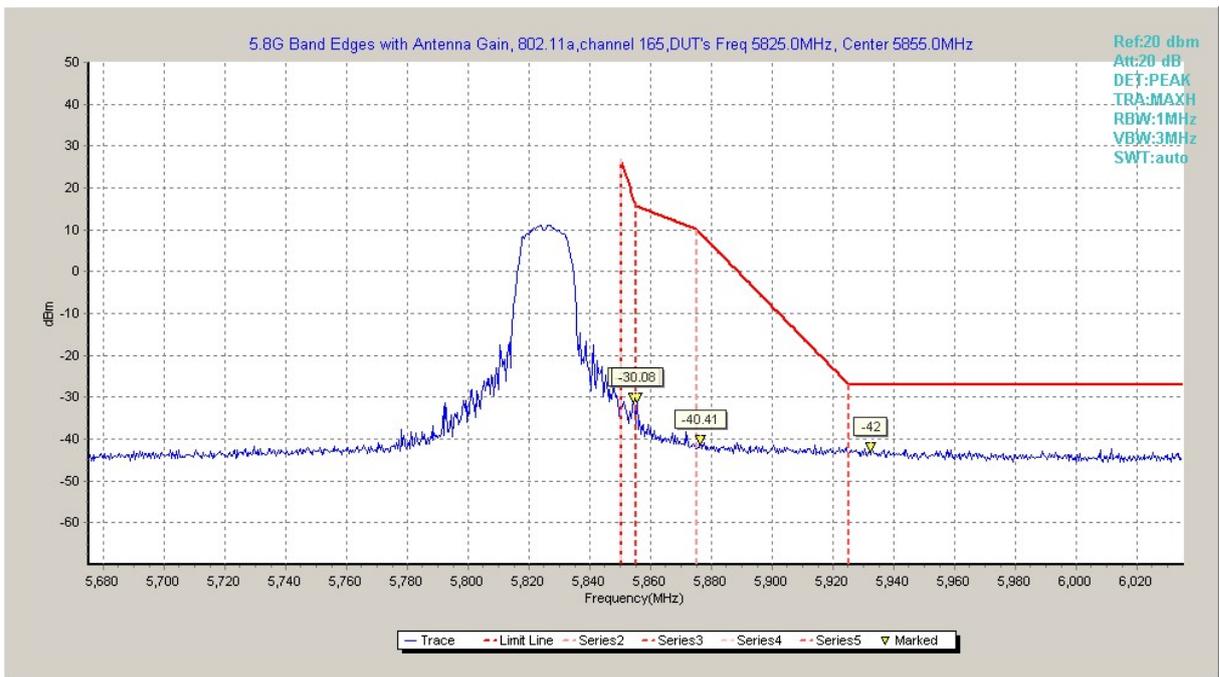


Fig. 72 Band Edges (802.11a, 5825MHz)

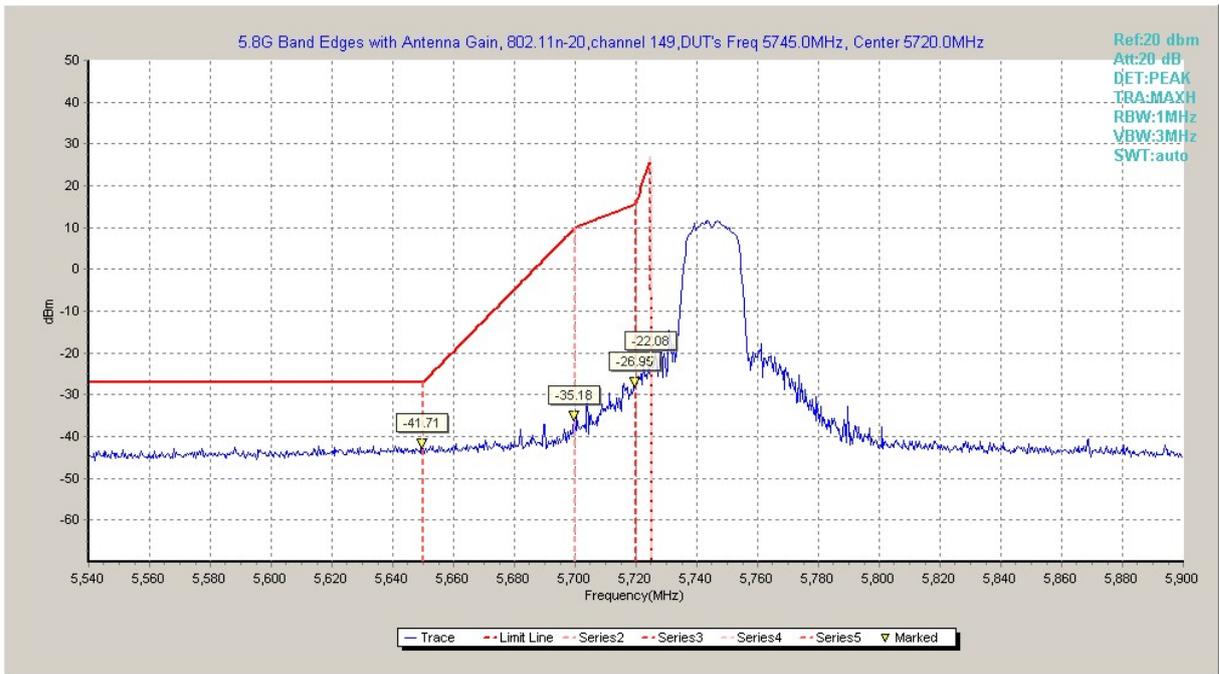


Fig. 73 Band Edges (802.11n-HT20, 5745MHz)

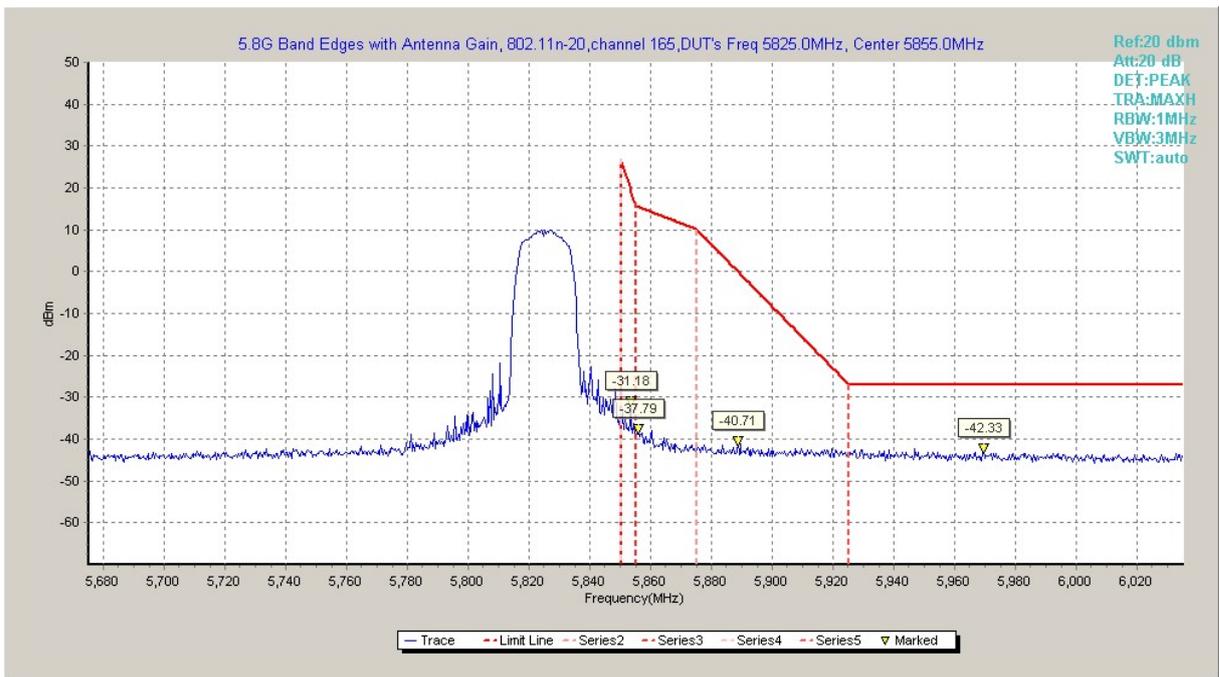


Fig. 74 Band Edges (802.11n-HT20, 5825MHz)

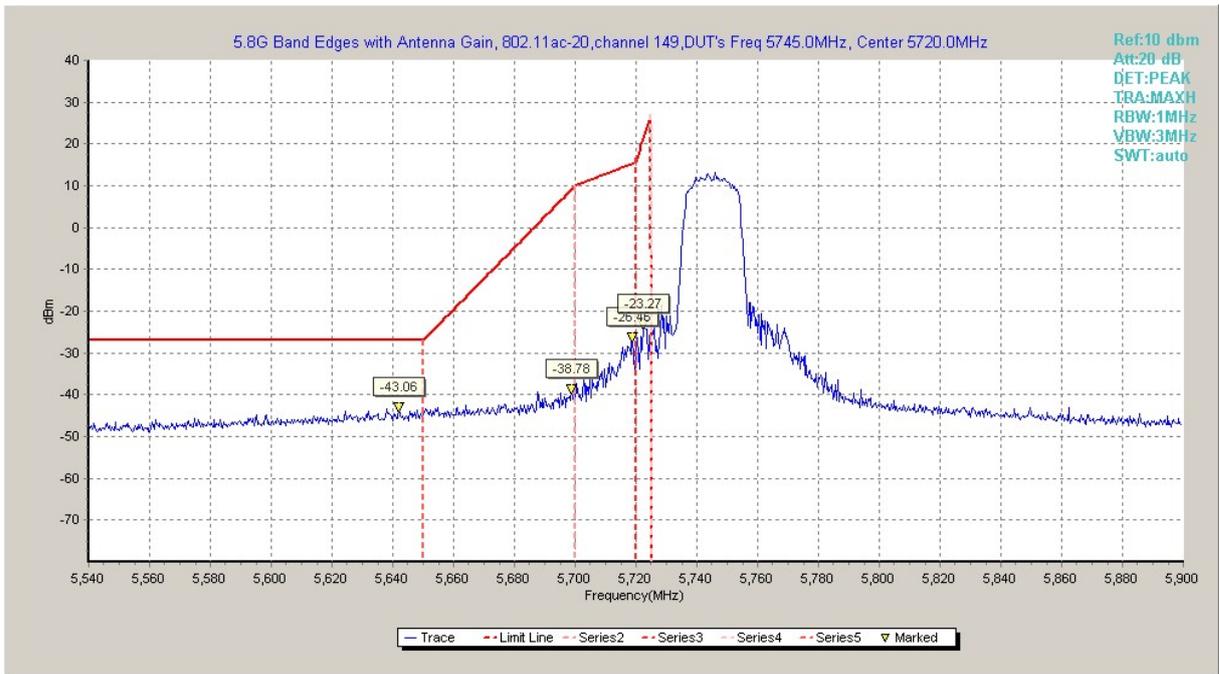


Fig. 75 Band Edges (802.11ac-HT20, 5745MHz)

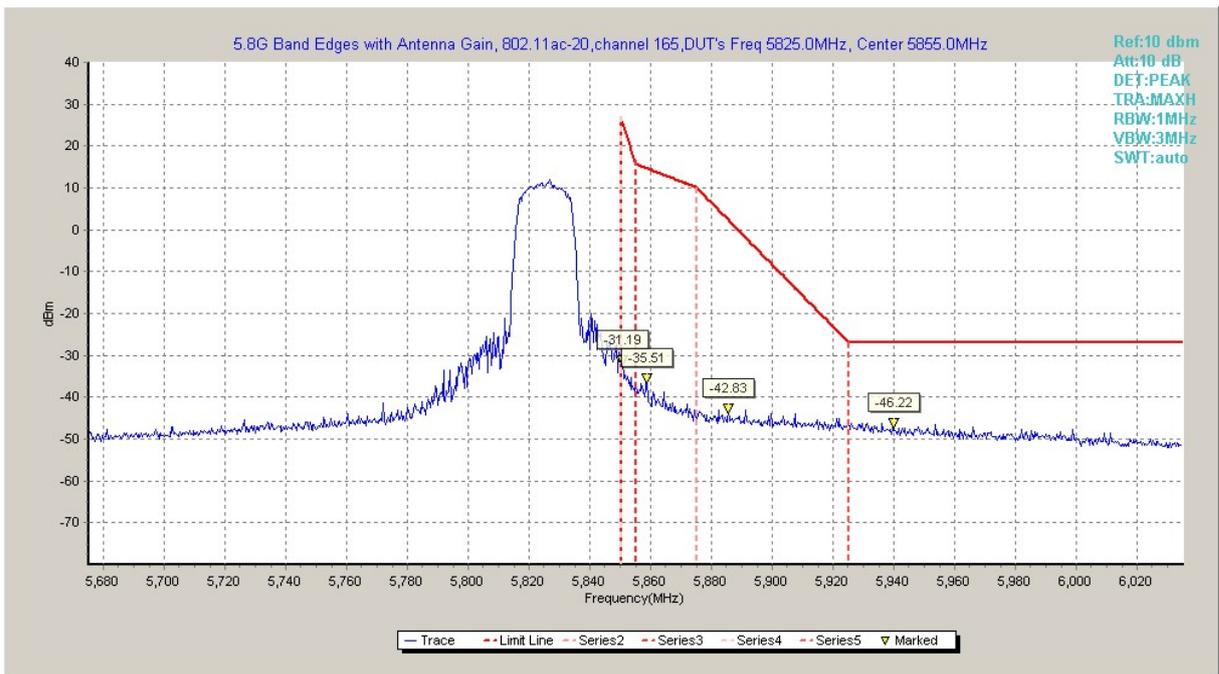


Fig. 76 Band Edges (802.11ac-HT20, 5825MHz)