

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

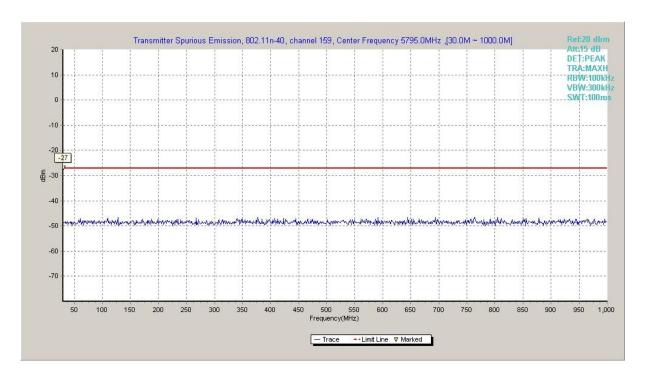


Fig. 55 Conducted Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)



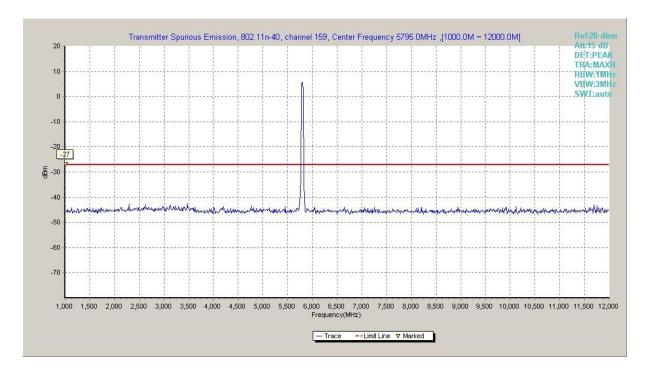


Fig. 56 Conducted Spurious Emission (802.11n-HT40, Ch159, 1 GHz -12 GHz)

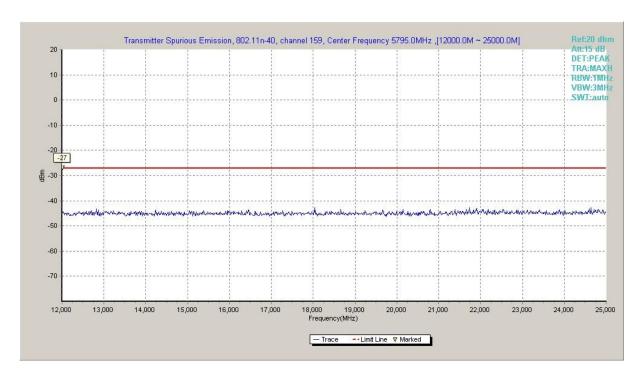


Fig. 57 Conducted Spurious Emission (802.11n-HT40, Ch159, 12 GHz-25 GHz)



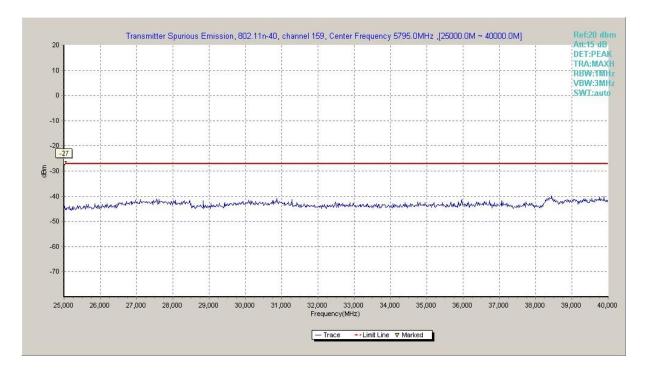


Fig. 58 Conducted Spurious Emission (802.11n-HT40, Ch159, 25 GHz-40 GHz)

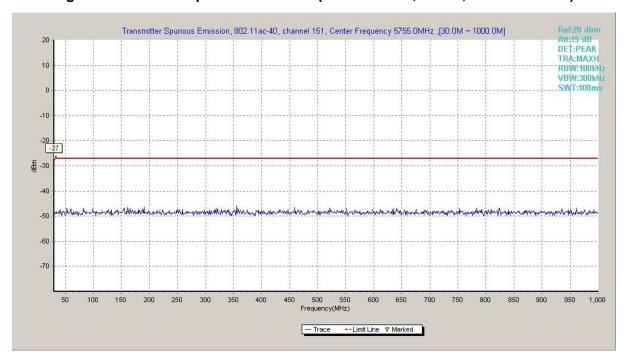


Fig. 59 Conducted Spurious Emission (802.11ac-HT40, Ch151, 30 MHz-1 GHz)



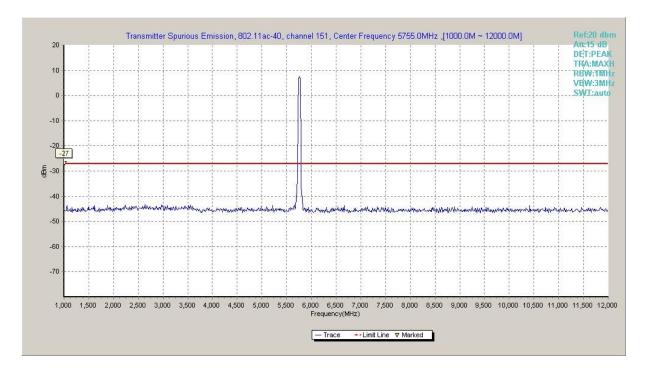


Fig. 60 Conducted Spurious Emission (802.11ac-HT40, Ch151, 1 GHz -12 GHz)

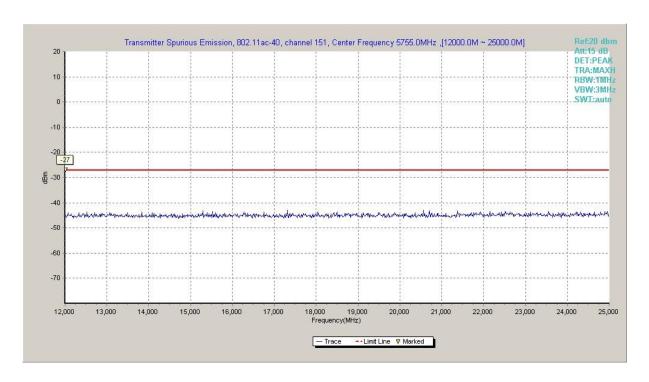


Fig. 61 Conducted Spurious Emission (802.11ac-HT40, Ch151, 12 GHz-25 GHz)



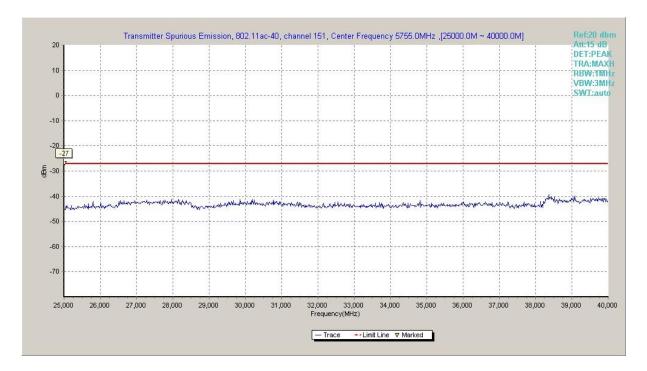


Fig. 62 Conducted Spurious Emission (802.11ac-HT40, Ch151, 25 GHz-40 GHz)

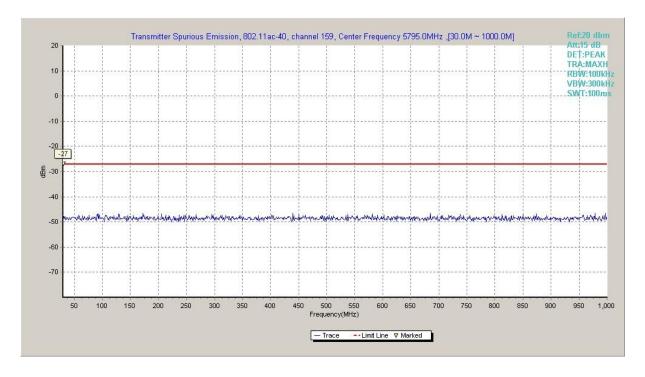


Fig. 63 Conducted Spurious Emission (802.11ac-HT40, Ch159, 30 MHz-1 GHz)



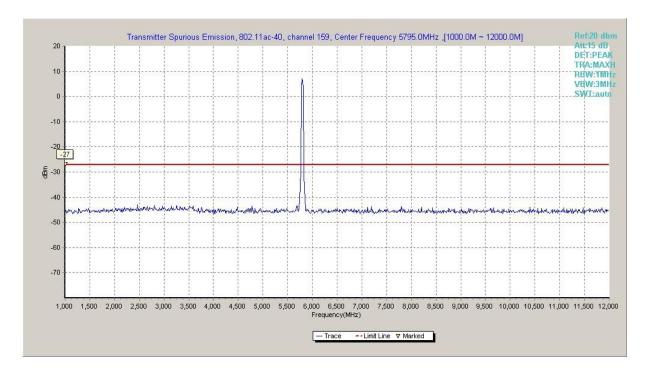


Fig. 64 Conducted Spurious Emission (802.11ac-HT40, Ch159, 1 GHz -12 GHz)

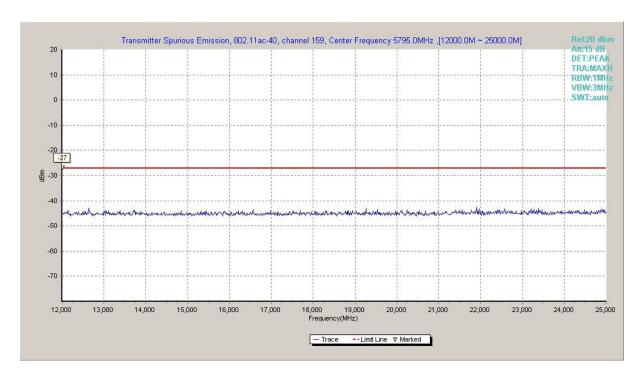


Fig. 65 Conducted Spurious Emission (802.11ac-HT40, Ch159, 12 GHz-25 GHz)



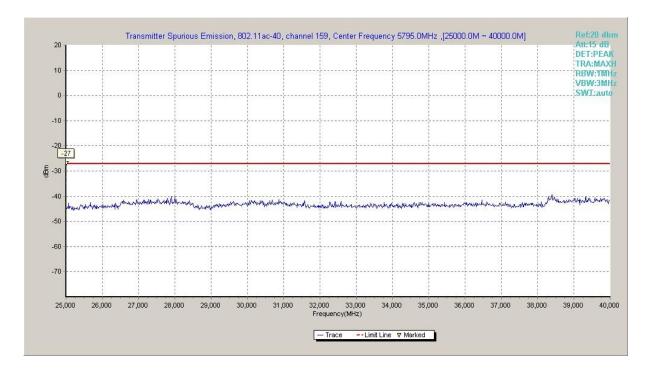


Fig. 66 Conducted Spurious Emission (802.11ac-HT40, Ch159, 25 GHz-40 GHz)

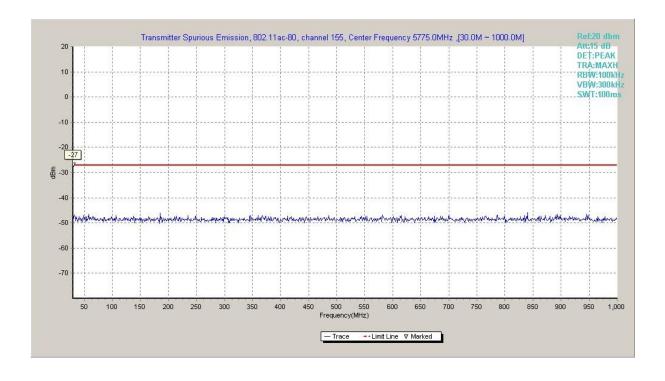


Fig. 67 Conducted Spurious Emission (802.11ac-HT80, Ch155, 30 MHz-1 GHz)



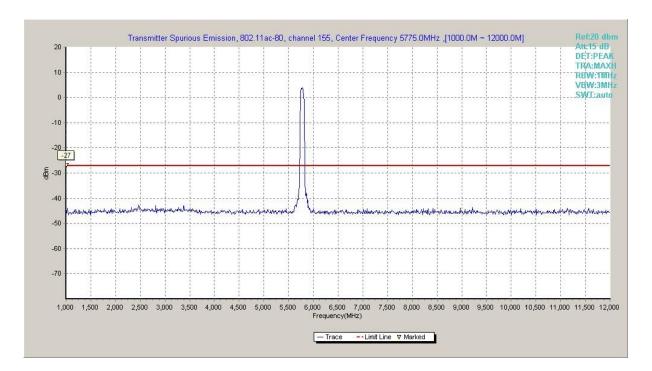


Fig. 68 Conducted Spurious Emission (802.11ac-HT80, Ch155, 1 GHz -12 GHz)

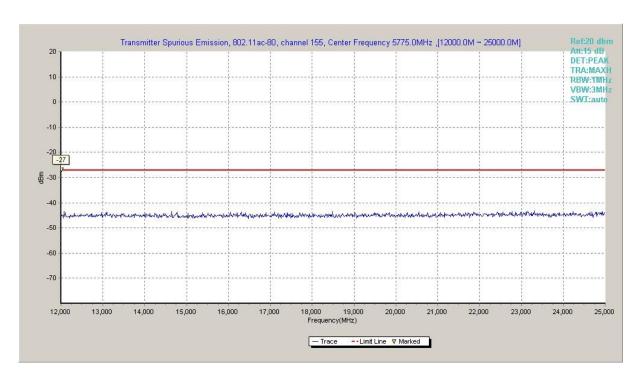


Fig. 69 Conducted Spurious Emission (802.11ac-HT80, Ch155, 12 GHz-25 GHz)



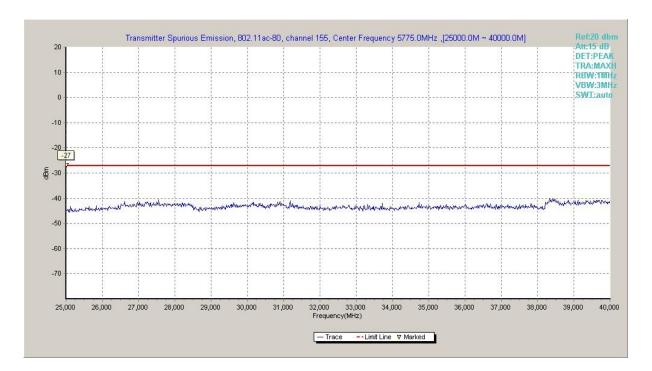


Fig. 70 Conducted Spurious Emission (802.11ac-HT80, Ch155, 25 GHz-40 GHz)



A.5.2 Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)		
f≤1GHz	4.86		
f>1GHz	5.28		

Measurement Results:

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.

 $P_{\mbox{\scriptsize Mea}}$ is the field strength recorded from the instrument.

Average

802.11a

Ch149

Fraguenov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5723.760	48.8	-33.8	35.1	47.500	Н
17909.600	45.2	-18.5	45.6	18.100	Н
17910.000	45.0	-18.5	45.6	17.900	Н
17917.200	44.9	-17.7	45.6	17.000	Н
17915.600	44.9	-17.7	45.6	17.000	Н
17926.400	44.9	-17.7	45.6	17.000	Н

Ch157

5 (A411.)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17903.600	45.0	-18.5	45.6	17.9	Н
17922.400	44.9	-17.7	45.6	17.0	Н
17914.000	44.8	-18.5	45.6	17.7	Н
17916.000	44.8	-17.7	45.6	16.9	Н
17914.800	44.8	-17.7	45.6	16.9	Н
17902.400	44.8	-18.5	45.6	17.7	Н

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5854.496	49.6	-33.8	35.1	48.3	Н
11650.800	47.8	-22.7	39.6	30.9	V
11650.000	47.5	-22.7	39.6	30.6	V
11647.200	47.3	-22.7	39.6	30.4	V
11651.600	47.3	-22.7	39.6	30.4	V
11651.200	47.2	-22.7	39.6	30.3	V



802.11n-HT20

Ch149

Fraguency/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5717.648	48.6	-33.8	35.1	47.3	Н
17915.600	44.9	-17.7	45.6	17.0	Н
17914.400	44.8	-17.7	45.6	16.9	Н
17909.600	44.7	-18.5	45.6	17.6	Н
17903.600	44.7	-18.5	45.6	17.6	Н
17923.200	44.7	-17.7	45.6	16.8	Н

Ch157

Fraguanov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17900.400	44.9	-18.5	45.6	17.8	Н
17903.200	44.8	-18.5	45.6	17.7	Н
17919.600	44.8	-17.7	45.6	16.9	Н
17906.000	44.8	-18.5	45.6	17.7	Н
17916.400	44.7	-17.7	45.6	16.8	Н
17906.400	44.7	-18.5	45.6	17.6	Н

Ch165

Fragues ov (MI Iz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5850.552	49.2	-33.8	35.1	47.9	Н
11650.800	46.9	-22.7	39.6	30.0	Н
11651.600	46.7	-22.7	39.6	29.8	Н
11650.000	46.7	-22.7	39.6	29.8	Н
11650.400	46.5	-22.7	39.6	29.6	Н
11648.800	46.3	-22.7	39.6	29.4	Н

802.11n-HT40

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5723.240	48.9	-33.8	35.1	47.6	Н
17909.600	45.1	-18.5	45.6	18.0	Н
17915.600	45.1	-17.7	45.6	17.2	Н
17895.600	44.9	-18.5	45.6	17.8	Н
17906.800	44.9	-18.5	45.6	17.8	Н
17902.000	44.8	-18.5	45.6	17.7	Н



Ch159

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5852.808	49.4	-33.8	35.1	48.1	Н
17906.400	45.0	-18.5	45.6	17.9	Н
17918.400	44.9	-17.7	45.6	17.0	Н
17911.600	44.9	-18.5	45.6	17.8	Н
17915.600	44.8	-17.7	45.6	16.9	Н
17900.000	44.7	-18.5	45.6	17.6	Н

802.11ac-HT20

Ch149

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
r requericy(ivii iz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5721.552	48.7	-33.8	35.1	47.4	Н
17910.800	44.9	-18.5	45.6	17.8	Н
17913.600	44.9	-18.5	45.6	17.8	Н
17908.000	44.9	-18.5	45.6	17.8	Н
17909.600	44.9	-18.5	45.6	17.8	Н
17909.200	44.8	-18.5	45.6	17.7	Н

Ch157

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
. , ,	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17917.200	44.9	-17.7	45.6	17.0	Н
17912.800	44.9	-18.5	45.6	17.8	Н
11571.600	44.9	-22.7	39.6	28.0	V
17903.600	44.8	-18.5	45.6	17.7	Н
17920.400	44.8	-17.7	45.6	16.9	Н
17912.400	44.8	-18.5	45.6	17.7	Н

Fraguency/MUz)	Result	Cable	Antenna	P_{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5850.904	49.4	-33.8	35.1	48.1	Н
11650.400	45.6	-22.7	39.6	28.7	Н
11648.800	45.5	-22.7	39.6	28.6	Н
11651.600	45.2	-22.7	39.6	28.3	Н
11649.200	45.2	-22.7	39.6	28.3	Н
11651.200	45.1	-22.7	39.6	28.2	Н



802.11ac-HT40

Ch151

Fraguenov(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5723.664	48.5	-33.8	35.1	47.2	Н
17892.800	45.1	-18.5	45.6	18.0	Н
17909.600	44.8	-18.5	45.6	17.7	Н
17908.000	44.8	-18.5	45.6	17.7	Н
17912.000	44.8	-18.5	45.6	17.7	Н
17897.200	44.7	-18.5	45.6	17.6	Н

Ch159

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
1 requericy(ivii iz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5850.816	49.2	-33.8	35.1	47.9	Н
17913.600	44.9	-18.5	45.6	17.8	Н
17910.000	44.8	-18.5	45.6	17.7	Н
17902.800	44.8	-18.5	45.6	17.7	Н
17906.800	44.8	-18.5	45.6	17.7	Н
17901.600	44.8	-18.5	45.6	17.7	Н

802.11ac-HT80

Fraguency/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17923.600	45.2	-17.7	45.6	17.3	Н
17912.800	45.1	-18.5	45.6	18.0	Н
17914.400	45.0	-17.7	45.6	17.1	V
17920.800	45.0	-17.7	45.6	17.1	Н
17918.800	44.9	-17.7	45.6	17.0	Н
17914.800	44.9	-17.7	45.6	17.0	Н



Peak 802.11a

Ch149

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(IVIFIZ)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5723.725	60.9	-33.8	35.1	59.600	Н
17896.800	57.0	-18.5	45.6	29.900	Н
17892.800	56.8	-18.5	45.6	29.700	Н
17879.600	56.6	-18.5	45.6	29.500	Н
17875.200	56.5	-18.5	45.6	29.400	Н
17903.200	56.4	-18.5	45.6	29.300	Н

Ch157

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(IVIFIZ)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17933.200	57.0	-17.7	45.6	29.1	Н
11572.000	56.7	-22.7	39.6	39.8	V
11572.800	56.7	-22.7	39.6	39.8	V
17894.000	56.6	-18.5	45.6	29.5	Н
17919.600	56.6	-17.7	45.6	28.7	Н
11567.600	56.6	-22.7	39.6	39.7	Н

Fraguanov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5854.224	63.3	-33.8	35.1	62.0	Н
11648.800	60.4	-22.7	39.6	43.5	V
11655.600	59.9	-22.7	39.6	43.0	V
11647.600	59.9	-22.7	39.6	43.0	V
11652.400	59.8	-22.7	39.6	42.9	V
11649.200	59.7	-22.7	39.6	42.8	V



802.11n-HT20

Ch149

Fragueney/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5718.928	61.3	-33.8	35.1	60.0	Н
17913.600	56.9	-18.5	45.6	29.8	Н
17935.200	56.6	-17.7	45.6	28.7	Н
17922.400	56.5	-17.7	45.6	28.6	Н
17914.000	56.4	-18.5	45.6	29.3	Н
17909.600	56.4	-18.5	45.6	29.3	Н

Ch157

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
i requericy(ivii iz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
11569.200	57.1	-22.7	39.6	40.2	Н
17937.200	56.6	-17.7	45.6	28.7	Н
17818.800	56.5	-18.5	45.6	29.4	Н
17957.600	56.4	-17.7	45.6	28.5	Н
17840.000	56.4	-18.5	45.6	29.3	Н
17918.000	56.4	-17.7	45.6	28.5	Н

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5851.000	61.1	-33.8	35.1	59.8	Н
11654.800	59.1	-22.7	39.6	42.2	Н
11647.600	58.6	-22.7	39.6	41.7	Н
11650.000	58.5	-22.7	39.6	41.6	Н
11646.000	58.4	-22.7	39.6	41.5	Н
11648.800	58.4	-22.7	39.6	41.5	Н



802.11n-HT40

Ch151

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(winz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5719.344	61.7	-33.8	35.1	60.4	Н
17918.800	57.7	-17.7	45.6	29.8	Н
17910.400	57.4	-18.5	45.6	30.3	Н
17894.000	57.2	-18.5	45.6	30.1	Н
17932.400	56.7	-17.7	45.6	28.8	Н
17802.400	56.5	-18.5	45.6	29.4	Н

Fragues av (MI Iz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5853.184	62.0	-33.8	35.1	60.7	Н
17929.200	56.7	-17.7	45.6	28.8	Н
17917.600	56.5	-17.7	45.6	28.6	Н
17945.600	56.4	-17.7	45.6	28.5	Н
17930.800	56.2	-17.7	45.6	28.3	Н
17944.800	56.2	-17.7	45.6	28.3	Н



802.11ac-HT20

Ch149

Fragueney/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5721.880	61.5	-33.8	35.1	60.2	Н
17994.000	57.2	-17.7	45.6	29.3	Н
17740.400	56.5	-18.5	45.6	29.4	Н
17904.400	56.5	-18.5	45.6	29.4	Н
17906.800	56.5	-18.5	45.6	29.4	Н
17920.000	56.5	-17.7	45.6	28.6	Н

Ch157

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
11571.200	58.9	-22.7	39.6	42.0	Н
11568.000	57.1	-22.7	39.6	40.2	Н
17907.200	56.9	-18.5	45.6	29.8	Н
17912.000	56.9	-18.5	45.6	29.8	Н
11571.600	56.9	-22.7	39.6	40.0	Н
17918.800	56.9	-17.7	45.6	29.0	Н

Fraguanov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5855.936	63.0	-33.8	35.1	61.7	Н
11651.600	59.7	-22.7	39.6	42.8	Н
11649.200	58.0	-22.7	39.6	41.1	Н
11647.600	57.5	-22.7	39.6	40.6	Н
11650.800	57.1	-22.7	39.6	40.2	Н
17910.400	57.0	-18.5	45.6	29.9	Н



802.11ac-HT40

Ch151

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5720.320	61.6	-33.8	35.1	60.3	Н
17976.000	57.0	-17.7	45.6	29.1	Н
17842.000	56.9	-18.5	45.6	29.8	Н
17902.000	56.7	-18.5	45.6	29.6	Н
17945.200	56.4	-17.7	45.6	28.5	Н
17912.000	56.4	-18.5	45.6	29.3	Н

Ch159

Fraguanov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
5850.776	62.2	-33.8	35.1	60.9	Н
17904.800	57.1	-18.5	45.6	30.0	Н
17986.400	56.8	-17.7	45.6	28.9	Н
17916.000	56.7	-17.7	45.6	28.8	Н
17908.400	56.5	-18.5	45.6	29.4	Н
17903.200	56.4	-18.5	45.6	29.3	Н

802.11ac-HT80

Ch155

Fraguenov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17921.600	58.1	-17.7	45.6	30.2	Н
17934.800	57.0	-17.7	45.6	29.1	Н
17945.200	56.9	-17.7	45.6	29.0	V
17926.400	56.8	-17.7	45.6	28.9	Н
17886.000	56.7	-18.5	45.6	29.6	Н
17930.000	56.6	-17.7	45.6	28.7	Н

Sample calculation: 802.11ac 80MHz CH155–Peak, 17921.600MHz

Peak ERP(dBm) = $P_{Mea}(30.2 \text{ dBuV/m})$ + Cable Loss(-17.7) + Antenna Factor(45.6) = 58.1 dBuV/m



A.6. Band Edges Compliance

A6.1 Band Edges - conducted

Measurement Limit:

Standard	Limit (dBm/MHz)
	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
FCC 47 CFR Part 15.407(b)(4)	below the band edge, and from 25 MHz above or below
FCC 47 CFR Part 15.407(b)(4)	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
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.71	Р
602.11a	5825 MHz	Fig.72	Р
802.11n	5745 MHz	Fig.73	Р
HT20	5825 MHz	Fig.74	Р
802.11ac	5745 MHz	Fig.75	Р
HT20	5825 MHz	Fig.76	Р
802.11n	5755 MHz	Fig.77	Р
HT40	5795 MHz	Fig.78	Р
802.11ac	5755 MHz	Fig.79	Р
HT40	5795 MHz	Fig.80	Р
802.11ac HT80	5775 MHz	Fig.81	Р
002.11aC F180	5775 MHz	Fig.82	Р

Conclusion: PASS
Test graphs as below:



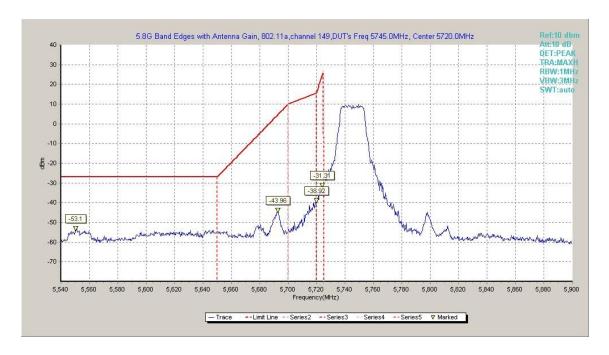


Fig. 71 Band Edges (802.11a, 5745MHz)

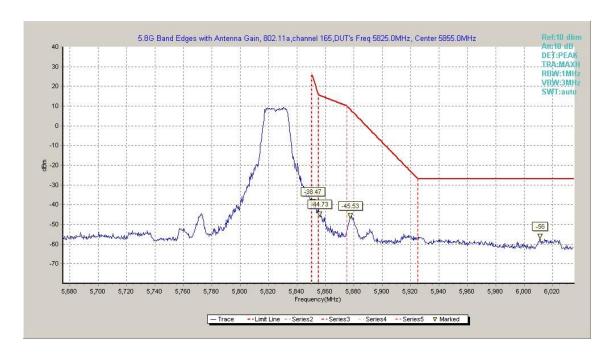


Fig. 72 Band Edges (802.11a, 5825MHz)



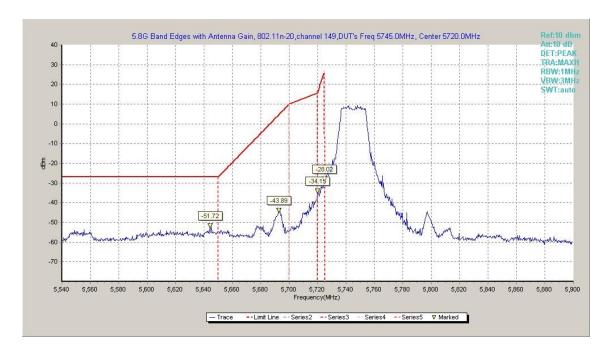
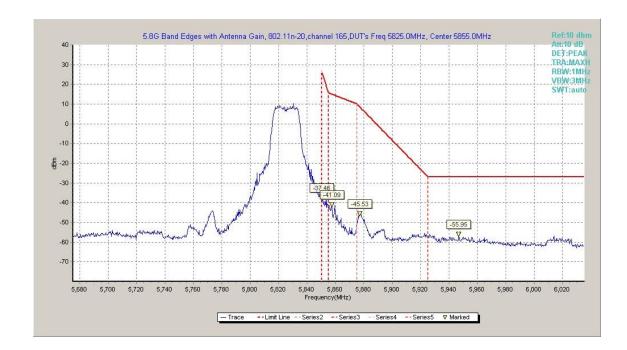


Fig. 73 Band Edges (802.11n-HT20, 5745MHz)





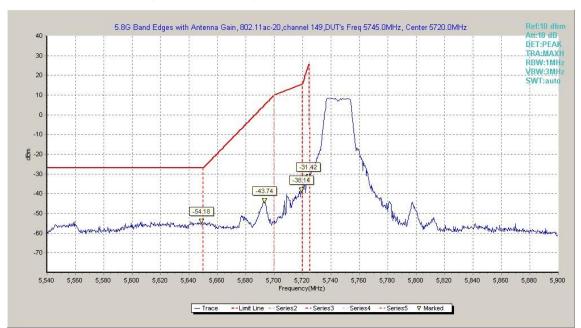
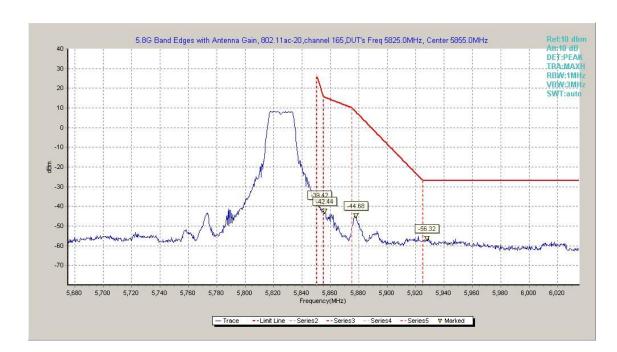


Fig. 74 Band Edges (802.11n-HT20, 5825MHz)







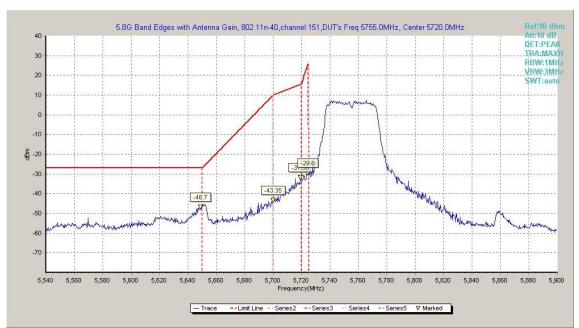


Fig. 76 Band Edges (802.11ac-HT20, 5825MHz)





Fig. 78 Band Edges (802.11n-HT40, 5795MHz)



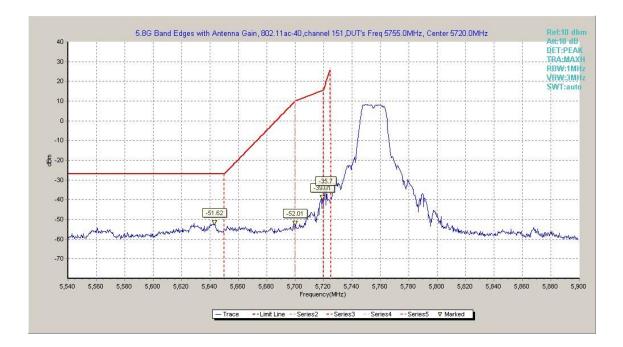


Fig. 79 Band Edges (802.11ac-HT40, 5755MHz)

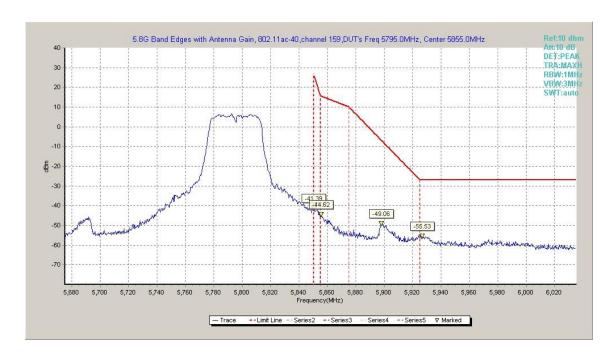


Fig. 80 Band Edges (802.11ac-HT40, 5795MHz)



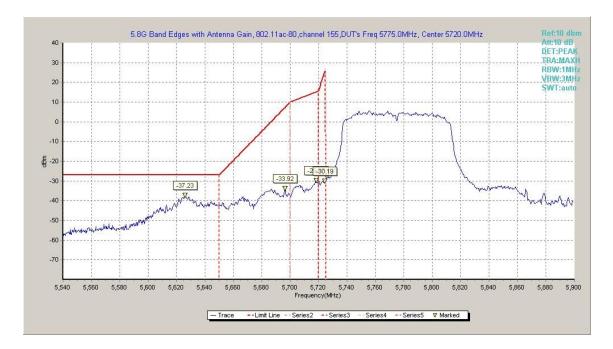


Fig. 81 Band Edges (802.11ac-HT80, 5775MHz)

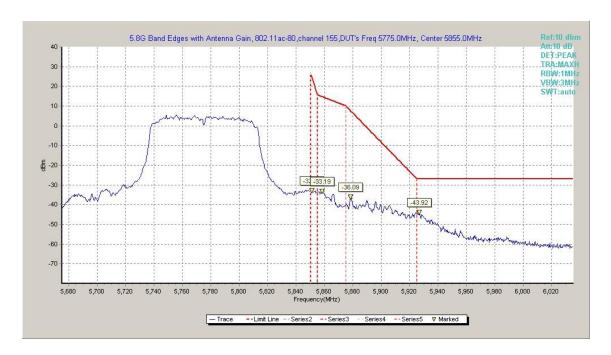


Fig. 82 Band Edges (802.11ac-HT80, 5775MHz)



A6.2 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
	at the band edge	27
FCC 47 CFR	at 5 MHz above or below the band edge	15.6
Part 15.407	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 D02

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Result:

Mode	Channel Test Resul		Conclusion
802.11a	5745 MHz	Fig.83	Р
002.11d	5825 MHz	Fig.84	Р
802.11n	5745 MHz	Fig.85	Р
HT20	5825 MHz	Fig.86	Р
802.11n	5755 MHz	Fig.87	Р
HT40	5795 MHz	Fig.88	Р
802.11ac	5745 MHz	Fig.89	Р
HT20	5825 MHz	Fig.90	Р
802.11ac	5755 MHz	Fig.91	Р
HT40	5795 MHz	Fig.92	Р

Conclusion: PASS
Test graphs as below:





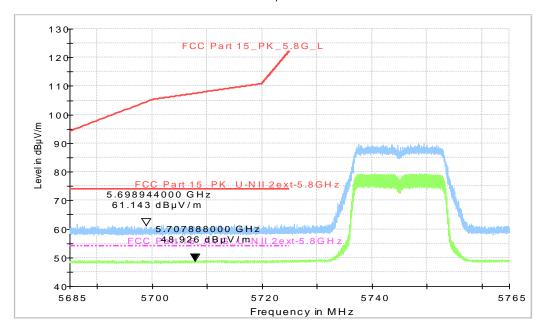


Fig. 83 Band Edges (802.11a, 5745MHz)

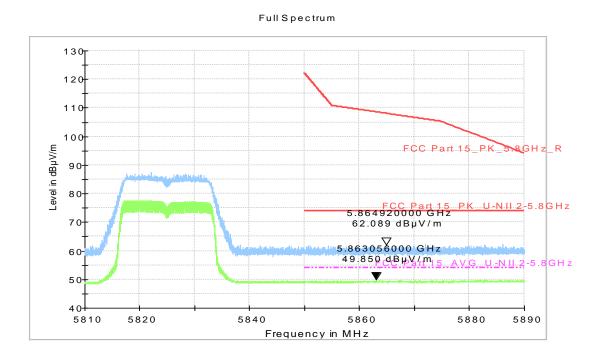


Fig. 84 Band Edges (802.11a, 5825MHz)





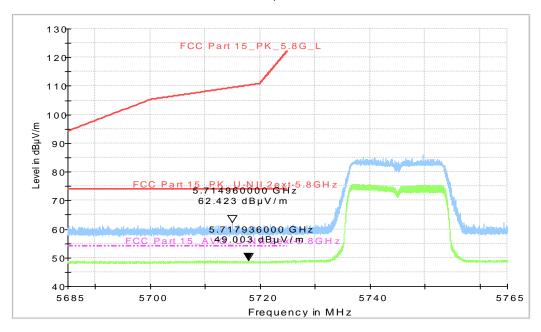


Fig. 85 Band Edges (802.11n-HT20, 5745MHz)

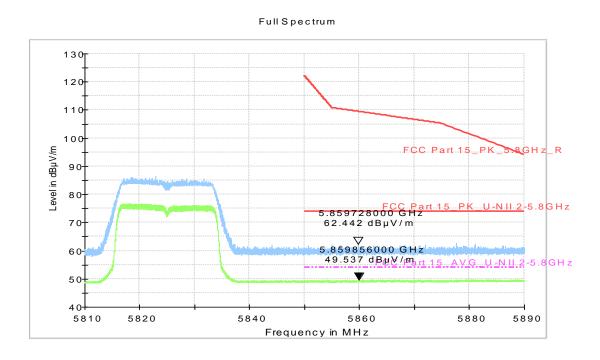


Fig. 86 Band Edges (802.11n-HT20, 5825MHz)





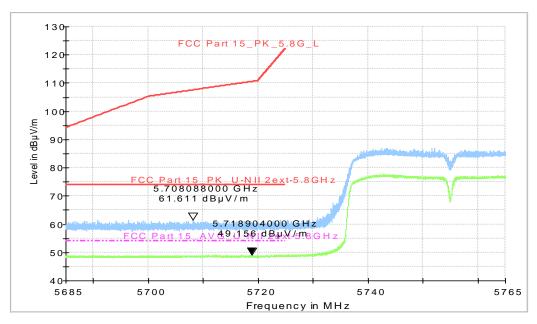


Fig. 87 Band Edges (802.11n-HT40, 5755MHz)

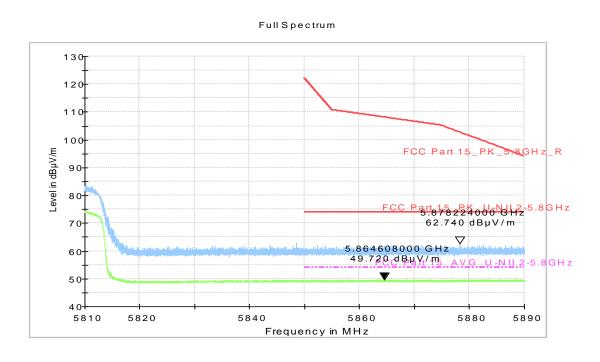


Fig. 88 Band Edges (802.11n-HT40, 5795MHz)





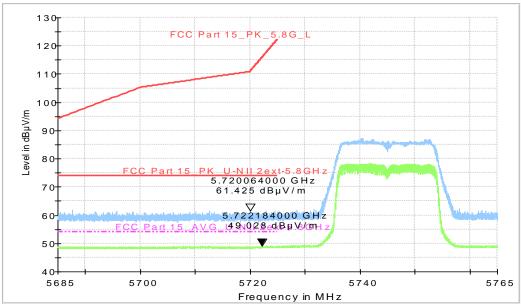


Fig. 89 Band Edges (802.11ac-HT20, 5745MHz)

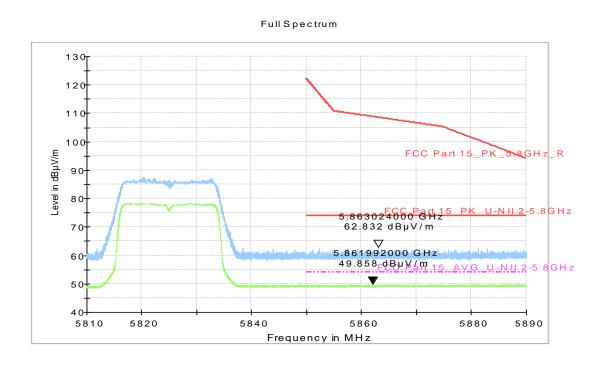


Fig. 90 Band Edges (802.11ac-HT20, 5825MHz)





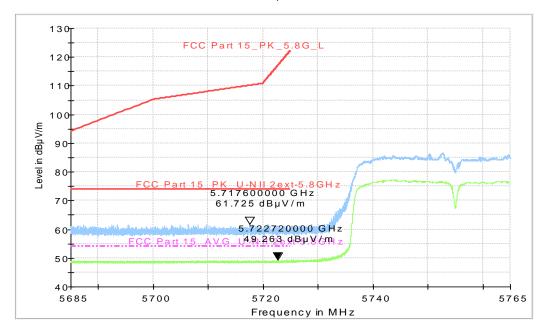


Fig. 91 Band Edges (802.11ac-HT40, 5755MHz)

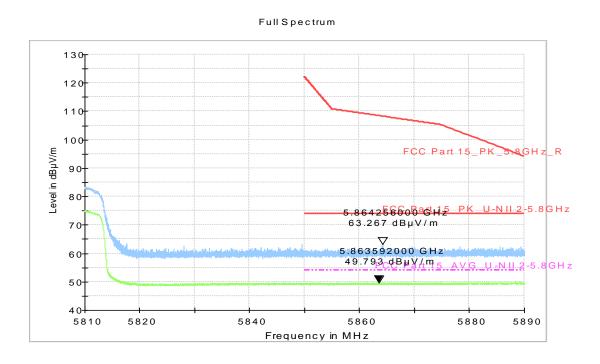


Fig. 92 Band Edges (802.11ac-HT40, 5795MHz)



A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U = 3.2dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dB _µ V) With charger		Conclusion	
(141112)	Еппи (авру)	802.11a	Idle		
0.15 to 0.5	66 to 56	Fig.93			
0.5 to 5	56	Fig.95	Fig.94	Р	
5 to 30	60	Fig.96			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Eroguanov rango	Average Limit	Result		
Frequency range (MHz)	Average Limit (dB _µ V)	With cl	Conclusion	
(IVITIZ)	(авиу)	802.11a	ldle	
0.15 to 0.5	56 to 46	Fig.93		
0.5 to 5	46	Fig.95	Fig.94	Р
5 to 30	50	Fig.96		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10.

Conclusion: PASS
Test graphs as below:



CBA0060AGHC1

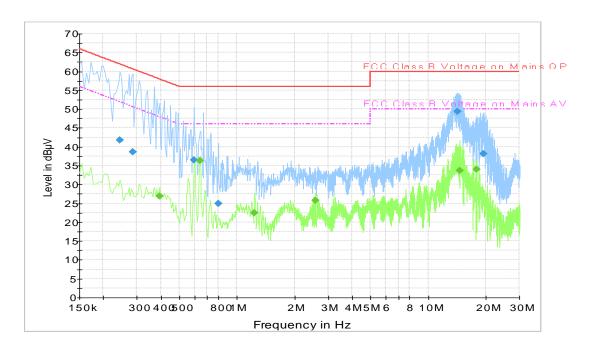


Fig. 93 AC Powerline Conducted Emission-802.11a

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.244500	41.7	2000.0	9.000	On	L1	19.8	20.2	61.9
0.285000	38.7	2000.0	9.000	On	L1	19.8	22.0	60.7
0.595500	36.4	2000.0	9.000	On	L1	19.8	19.6	56.0
0.798000	24.9	2000.0	9.000	On	L1	19.8	31.1	56.0
14.239500	49.3	2000.0	9.000	On	N	19.8	10.7	60.0
19.441500	38.2	2000.0	9.000	On	N	19.9	21.8	60.0

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.393000	26.9	2000.0	9.000	On	L1	19.9	21.1	48.0
0.640500	36.4	2000.0	9.000	On	L1	19.8	9.6	46.0
1.234500	22.5	2000.0	9.000	On	L1	19.7	23.5	46.0
2.575500	25.8	2000.0	9.000	On	N	19.0	20.2	46.0
14.685000	33.7	2000.0	9.000	On	L1	19.8	16.3	50.0
17.848500	34.0	2000.0	9.000	On	N	19.9	16.0	50.0



CBA0060AGHC1

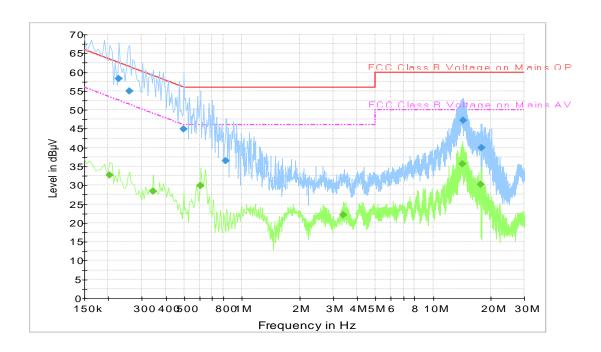


Fig. 94 AC Powerline Conducted Emission-Idle

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.226500	58.2	2000.0	9.000	On	L1	19.8	4.3	62.6
0.258000	54.9	2000.0	9.000	On	L1	19.8	6.5	61.5
0.496500	44.9	2000.0	9.000	On	L1	19.9	11.2	56.1
0.825000	36.5	2000.0	9.000	On	L1	19.8	19.5	56.0
14.334000	47.1	2000.0	9.000	On	L1	19.8	12.9	60.0
17.848500	40.0	2000.0	9.000	On	L1	19.9	20.0	60.0

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.204000	32.6	2000.0	9.000	On	L1	19.8	20.8	53.4
0.343500	28.3	2000.0	9.000	On	L1	19.9	20.8	49.1
0.609000	29.9	2000.0	9.000	On	L1	19.8	16.1	46.0
3.390000	22.2	2000.0	9.000	On	L1	19.4	23.8	46.0
14.275500	35.6	2000.0	9.000	On	L1	19.8	14.4	50.0
17.821500	30.2	2000.0	9.000	On	N	19.9	19.8	50.0



CBA0060ACHC1

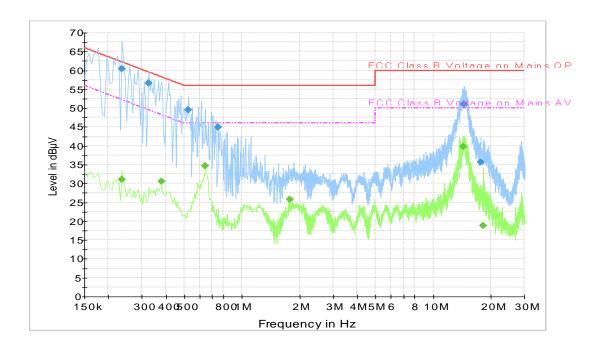


Fig. 95 AC Powerline Conducted Emission-802.11a

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.235500	60.4	2000.0	9.000	On	L1	19.8	1.9	62.3
0.325500	56.5	2000.0	9.000	On	L1	19.8	3.0	59.6
0.523500	49.6	2000.0	9.000	On	N	19.9	6.4	56.0
0.753000	44.9	2000.0	9.000	On	N	19.8	11.1	56.0
14.500500	51.0	2000.0	9.000	On	L1	19.8	9.0	60.0
17.790000	35.7	2000.0	9.000	On	N	19.9	24.3	60.0

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.235500	31.1	2000.0	9.000	On	L1	19.8	21.1	52.3
0.379500	30.5	2000.0	9.000	On	N	19.9	17.8	48.3
0.640500	34.6	2000.0	9.000	On	N	19.8	11.4	46.0
1.779000	25.8	2000.0	9.000	On	N	19.7	20.2	46.0
14.428500	39.8	2000.0	9.000	On	N	19.8	10.2	50.0
18.316500	18.8	2000.0	9.000	On	L1	19.9	31.2	50.0



CBA0060AJHC1

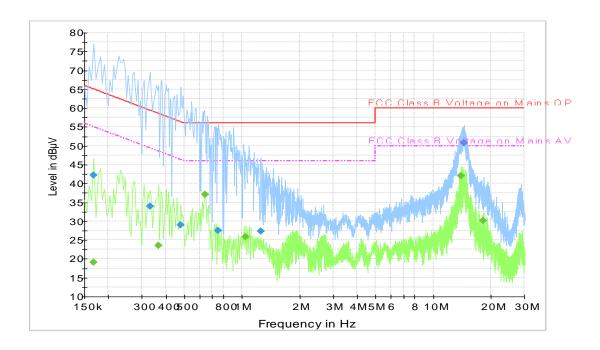


Fig. 96 AC Powerline Conducted Emission-802.11a

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.168000	42.2	2000.0	9.000	On	L1	19.9	22.9	65.1
0.330000	34.0	2000.0	9.000	On	L1	19.8	25.5	59.5
0.478500	29.0	2000.0	9.000	On	L1	19.9	27.3	56.4
0.753000	27.5	2000.0	9.000	On	L1	19.8	28.5	56.0
1.261500	27.3	2000.0	9.000	On	L1	19.7	28.7	56.0
14.509500	50.8	2000.0	9.000	On	L1	19.8	9.2	60.0

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
0.168000	19.0	2000.0	9.000	On	L1	19.9	36.0	55.1
0.366000	23.5	2000.0	9.000	On	L1	19.8	25.1	48.6
0.640500	37.1	2000.0	9.000	On	N	19.8	8.9	46.0
1.045500	25.9	2000.0	9.000	On	N	19.7	20.1	46.0
14.032500	42.0	2000.0	9.000	On	N	19.8	8.0	50.0
18.204000	30.2	2000.0	9.000	On	N	19.9	19.8	50.0



ANNEX B: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2016-09-29 through 2017-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

*** END OF REPORT BODY ***