

RE - 3GHz-6GHz

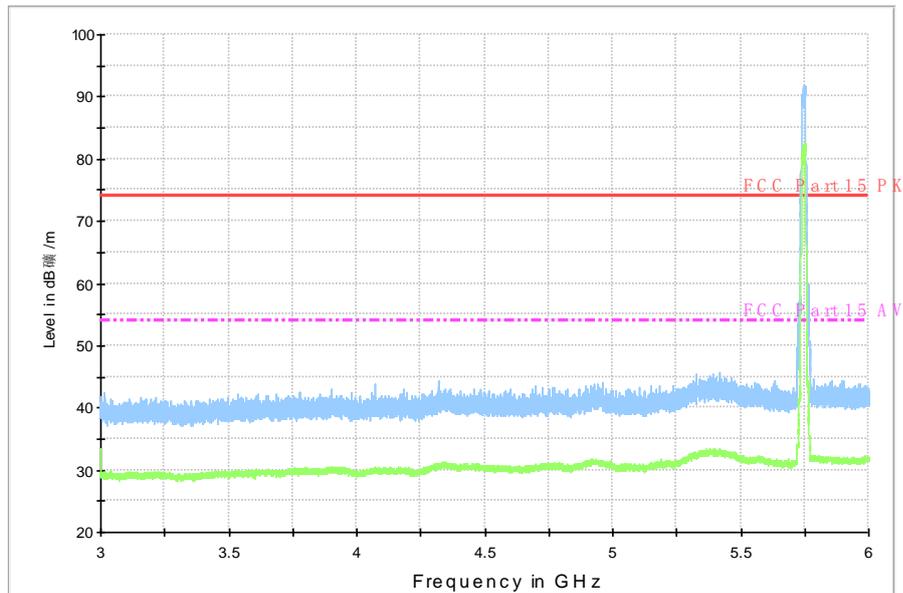


Fig. 74 Radiated Spurious Emission (802.11n-HT20, Ch149, 3 GHz-6 GHz)

RE - 6GHz-18GHz

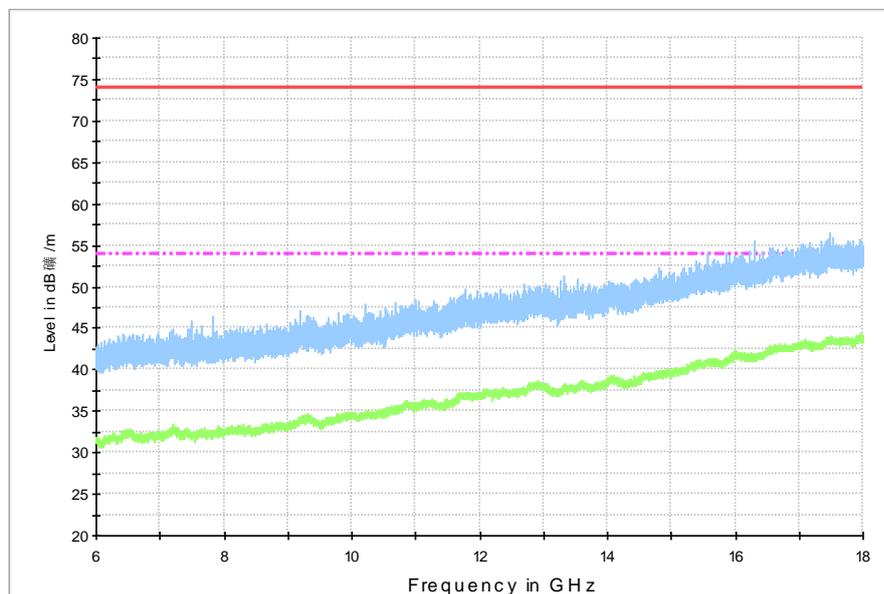


Fig. 75 Radiated Spurious Emission (802.11n-HT20, Ch149, 6 GHz-18 GHz)

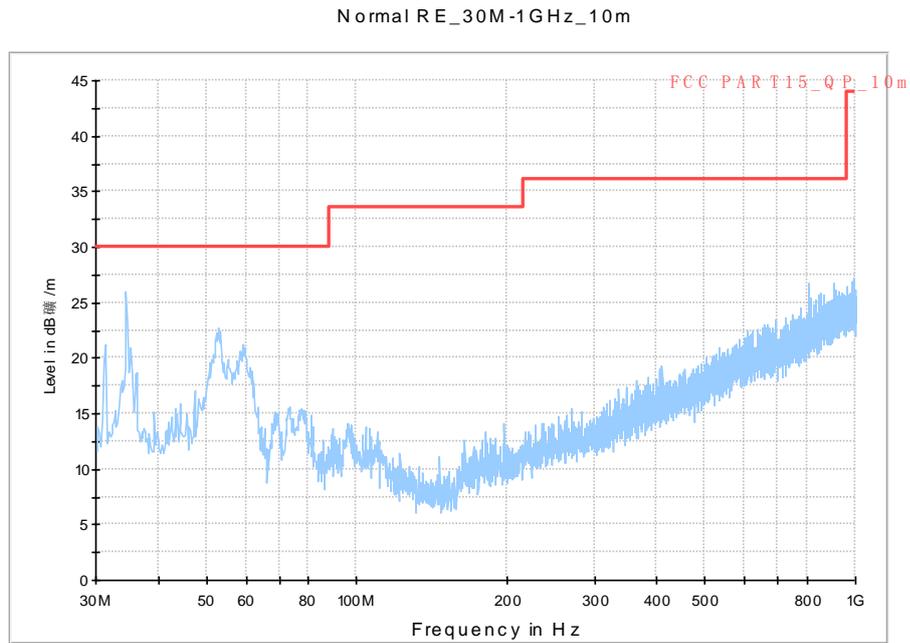


Fig. 76 Radiated Spurious Emission (802.11n-HT20, Ch157, 30 MHz-1 GHz)

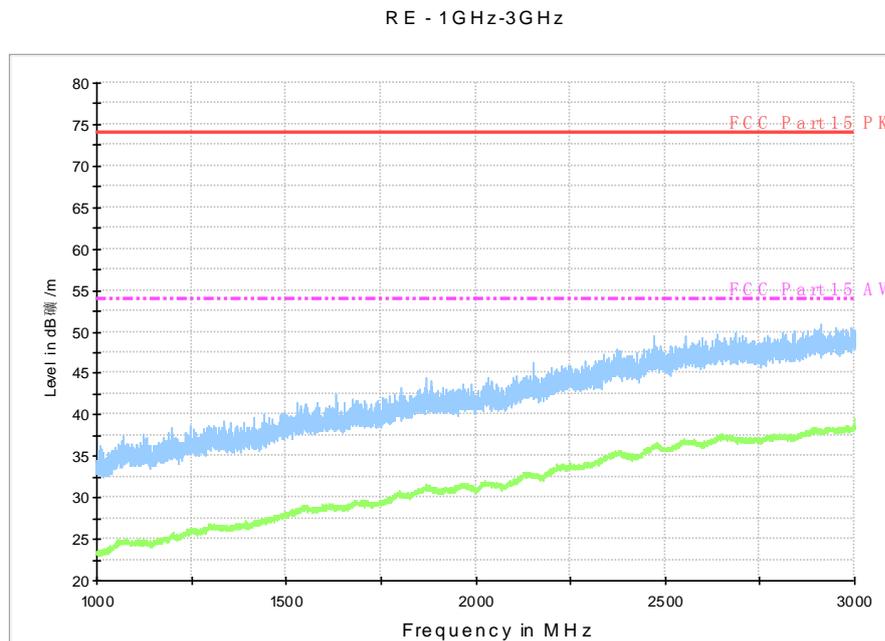


Fig. 77 Radiated Spurious Emission (802.11n-HT20, Ch157, 1 GHz-3 GHz)

RE - 3GHz-6GHz

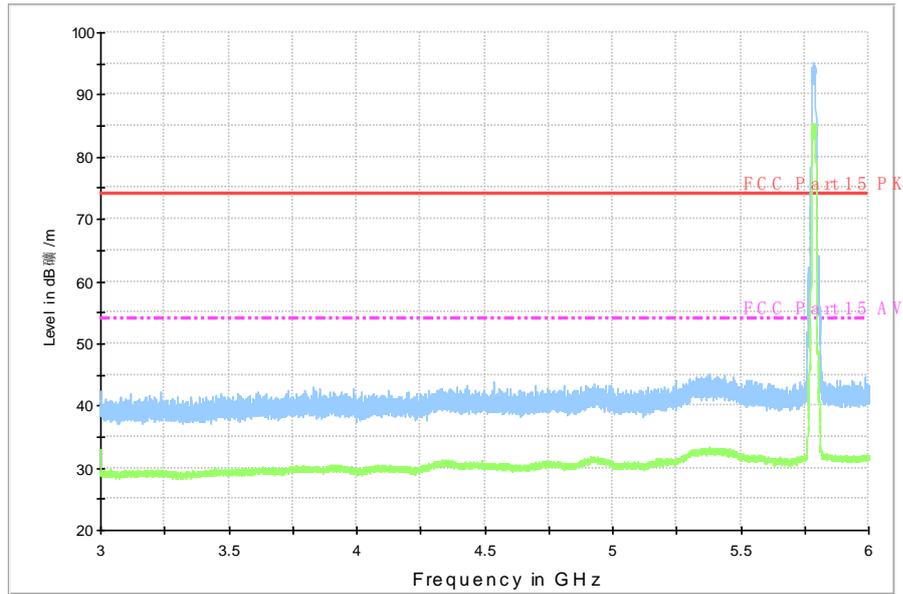


Fig. 78 Radiated Spurious Emission (802.11n-HT20, Ch157, 3 GHz-6 GHz)

RE - 6GHz-18GHz

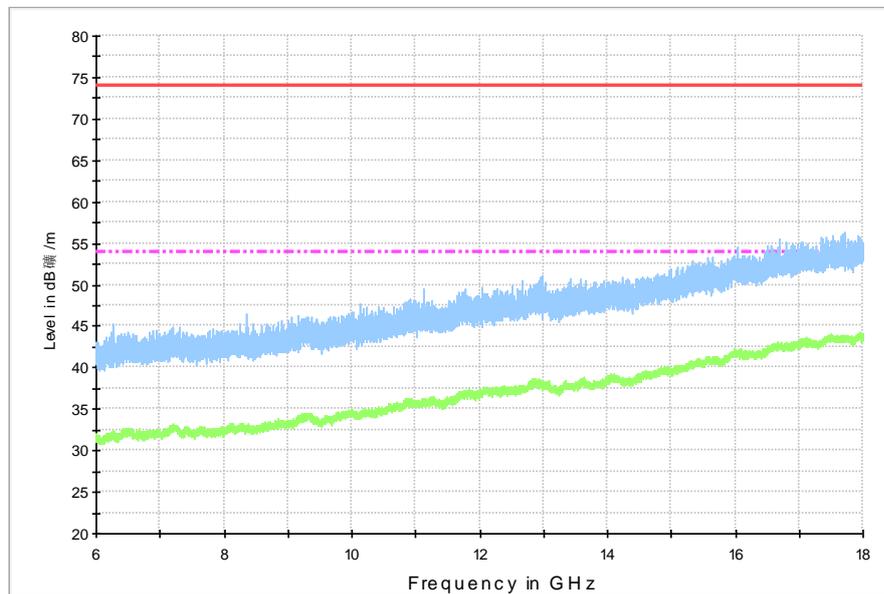


Fig. 79 Radiated Spurious Emission (802.11n-HT20, Ch157, 6 GHz-18 GHz)

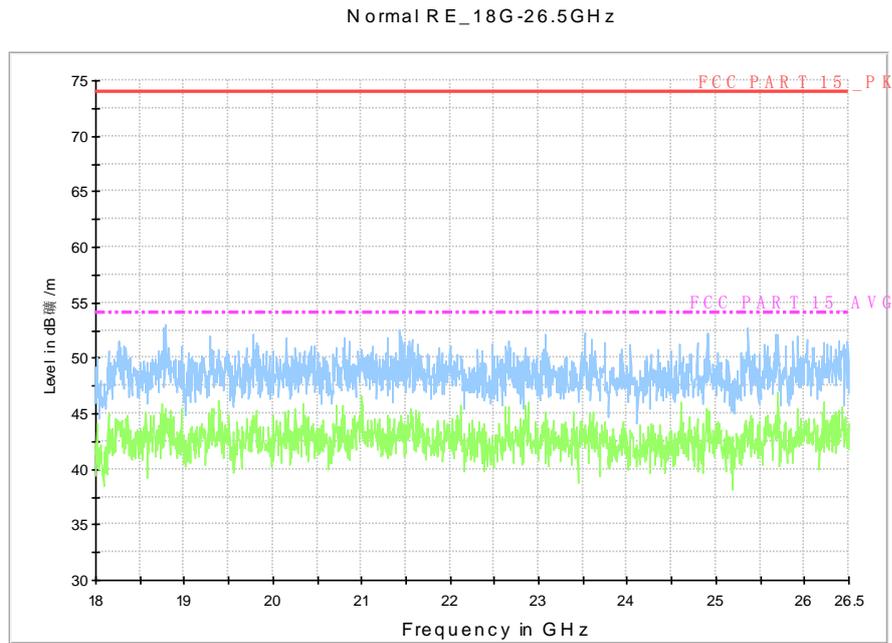


Fig. 80 Radiated Spurious Emission (802.11n-HT20, Ch157, 18 GHz-26.5 GHz)

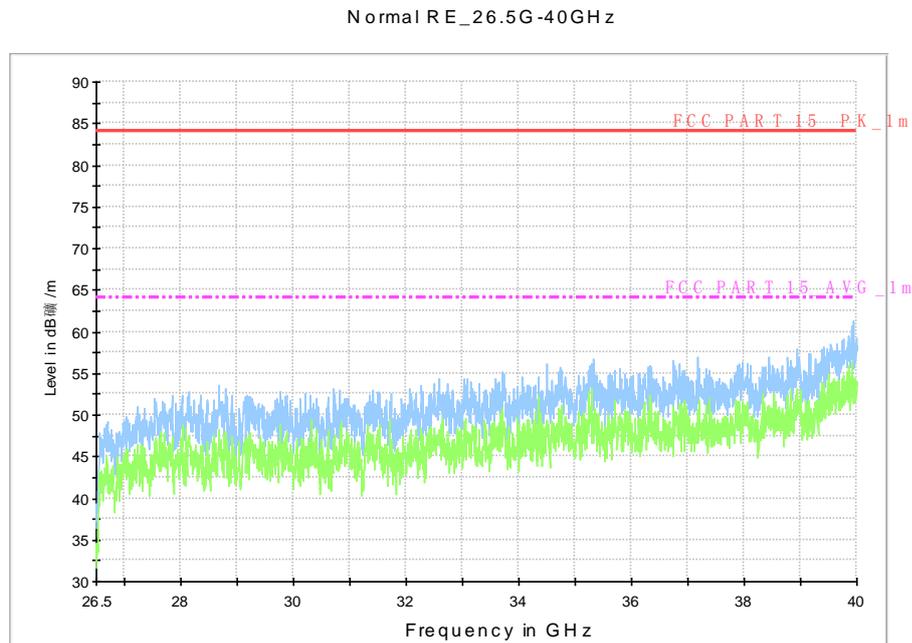


Fig. 81 Radiated emission: 802.11n, (802.11n-HT20, Ch157, 26.5 GHz - 40 GHz)

RE - 1GHz-3GHz

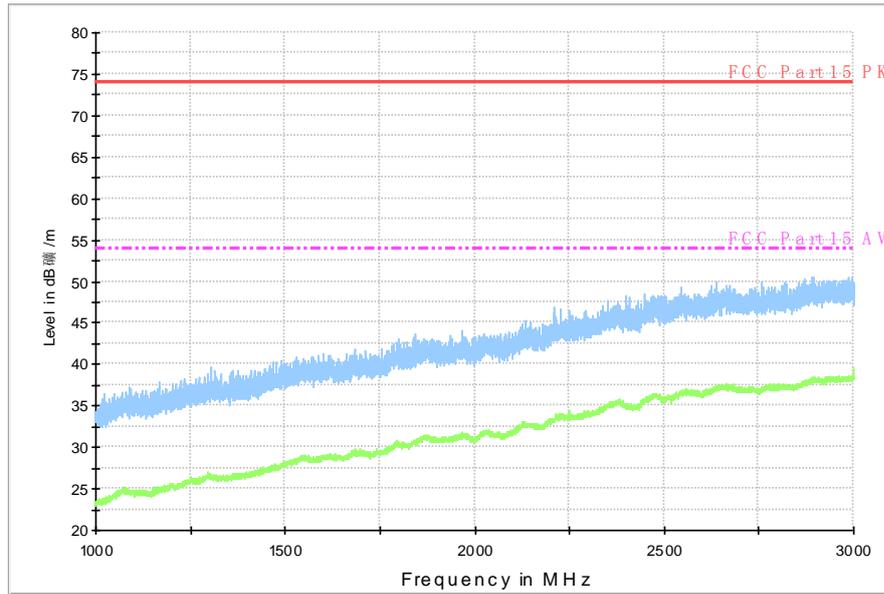


Fig. 82 Radiated Spurious Emission (802.11n-HT20, Ch165, 1 GHz-3 GHz)

RE - 3GHz-6GHz

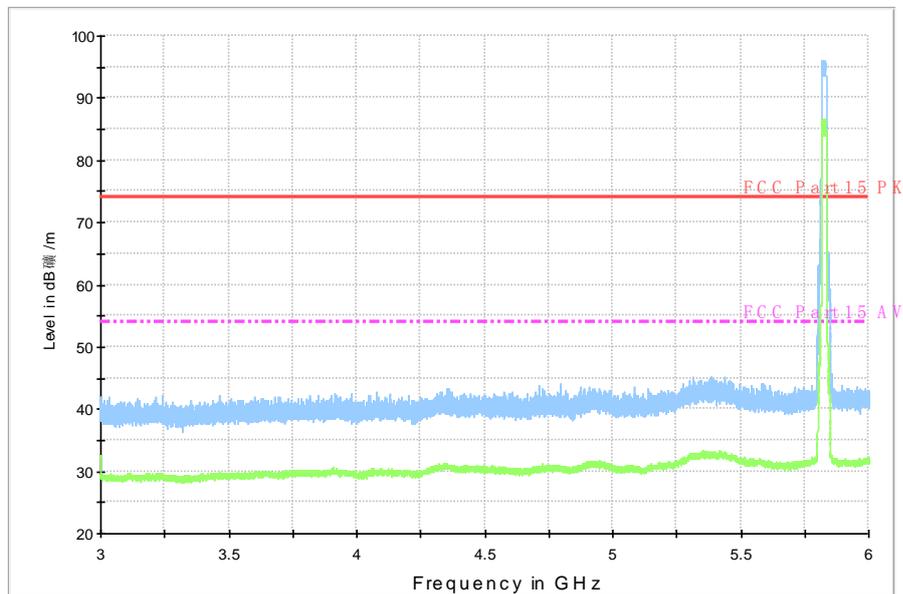


Fig. 83 Radiated Spurious Emission (802.11n-HT20, Ch165, 3 GHz-6 GHz)

RE - 6GHz-18GHz

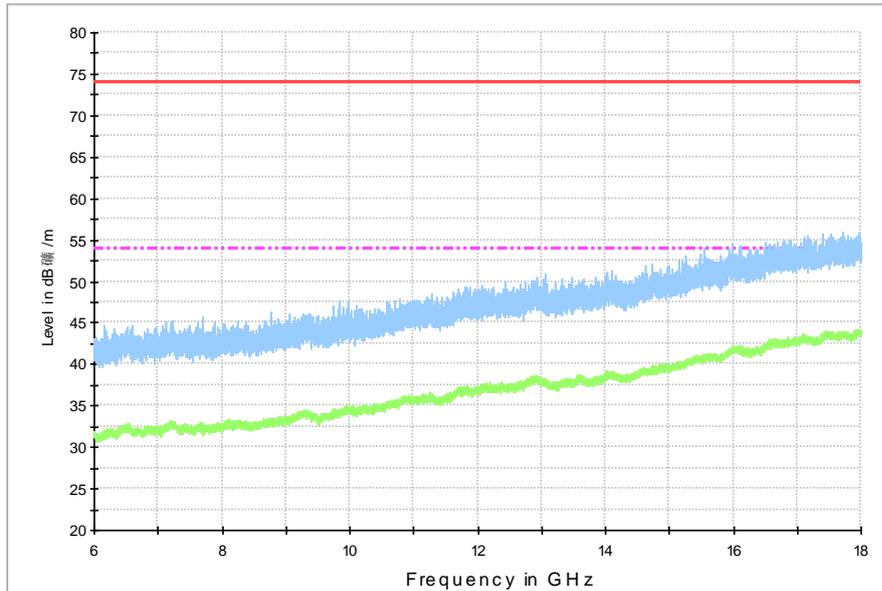


Fig. 84 Radiated Spurious Emission (802.11n-HT20, Ch165, 6 GHz-18 GHz)

Normal RE_30M-1GHz_10m

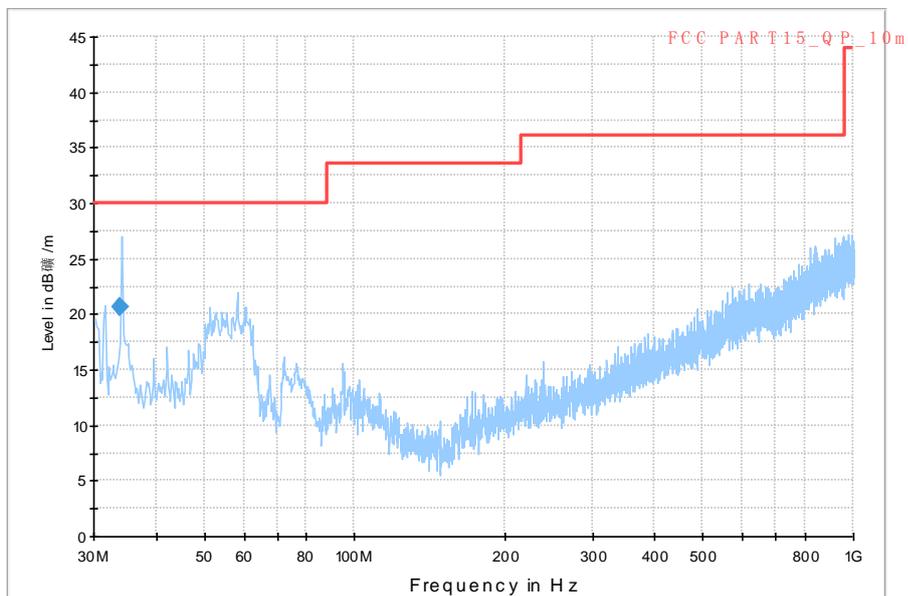


Fig. 85 Radiated Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

RE - 1GHz-3GHz

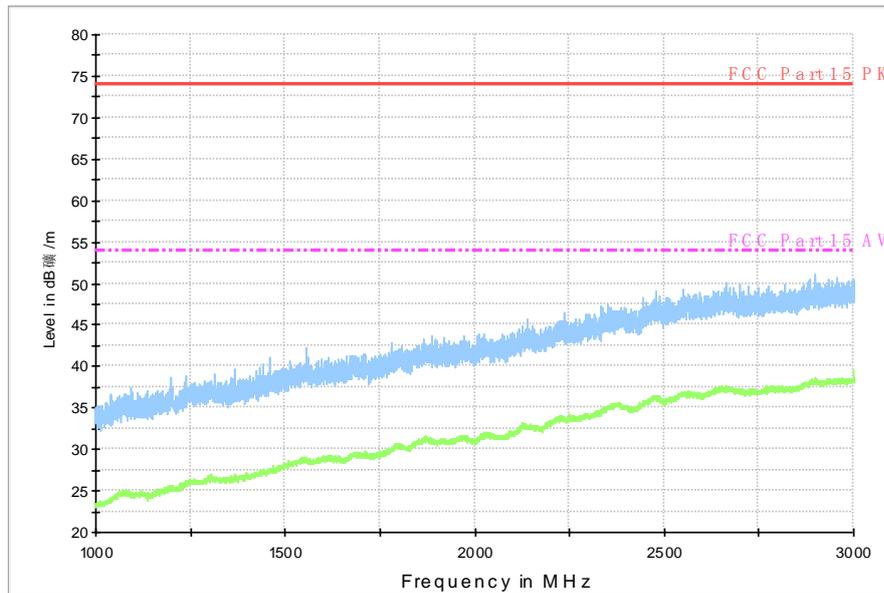


Fig. 86 Radiated Spurious Emission (802.11n-HT40, Ch151, 1 GHz-3 GHz)

RE - 3GHz-6GHz

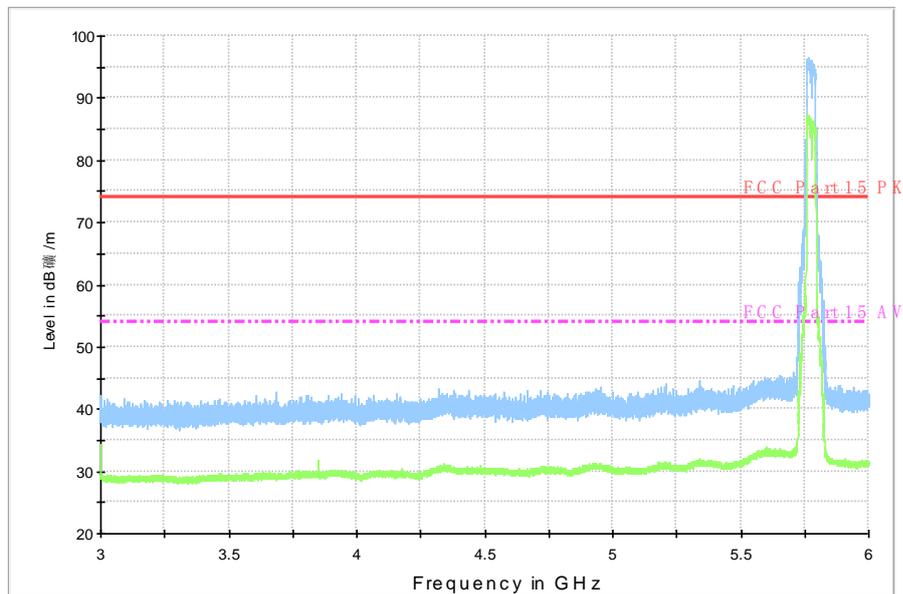


Fig. 87 Radiated Spurious Emission (802.11n-HT40, Ch151, 3 GHz-6 GHz)

RE - 6GHz-18GHz

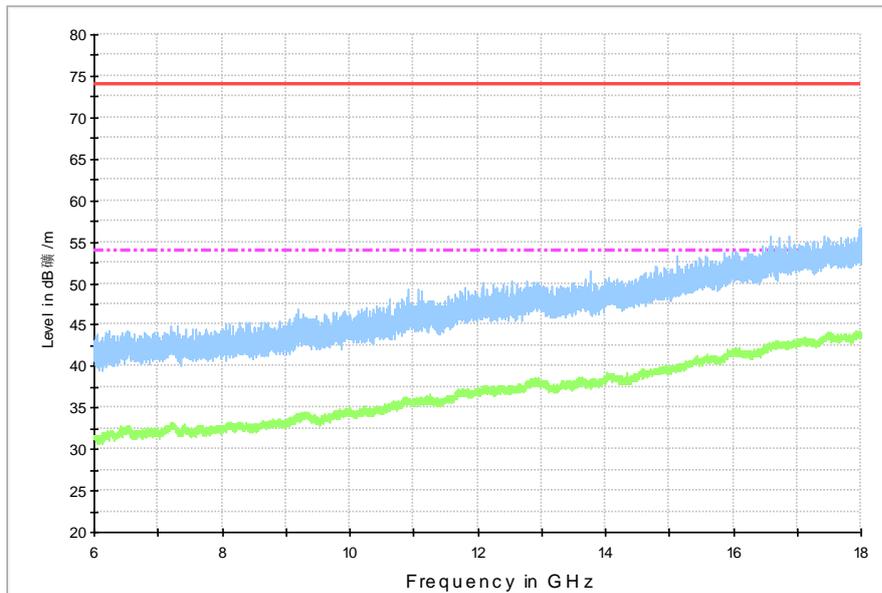


Fig. 88 Radiated Spurious Emission (802.11n-HT40, Ch151, 6 GHz-18 GHz)

Normal RE_18G-26.5GHz

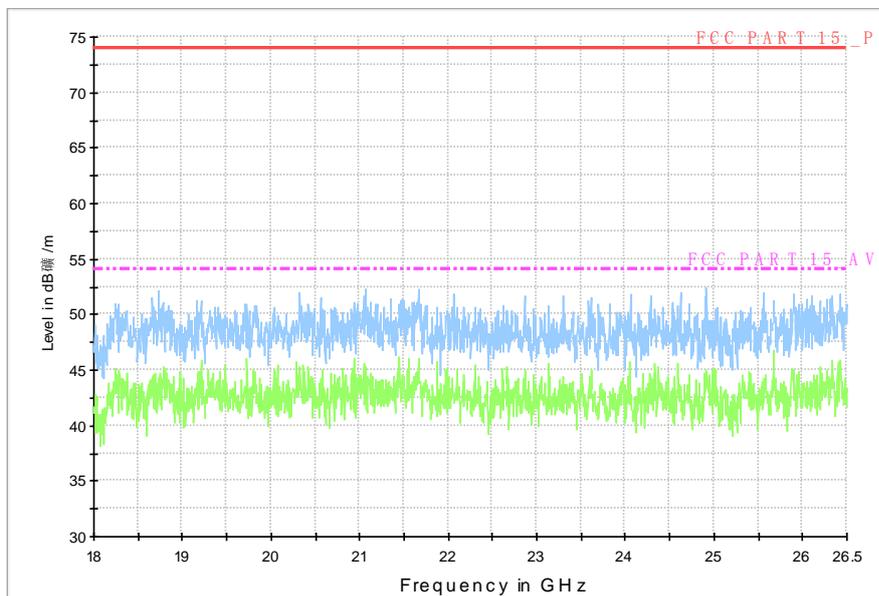


Fig. 89 Radiated Spurious Emission (802.11n-HT40, Ch151, 18 GHz-26.5 GHz)

Normal RE_26.5G-40GHz

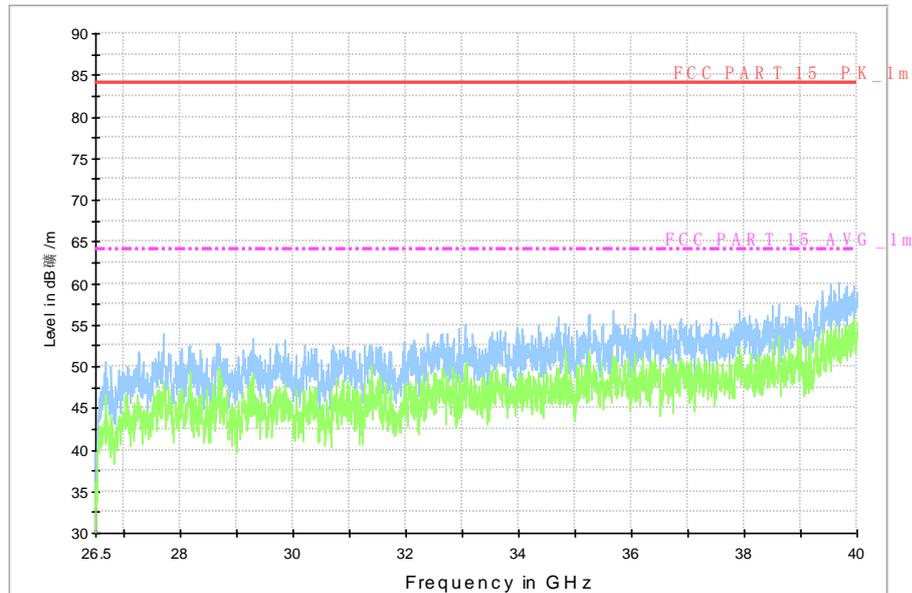


Fig. 90 Radiated emission: 802.11n, (802.11n-HT40, Ch151, 26.5 GHz - 40 GHz)

RE - 1GHz-3GHz

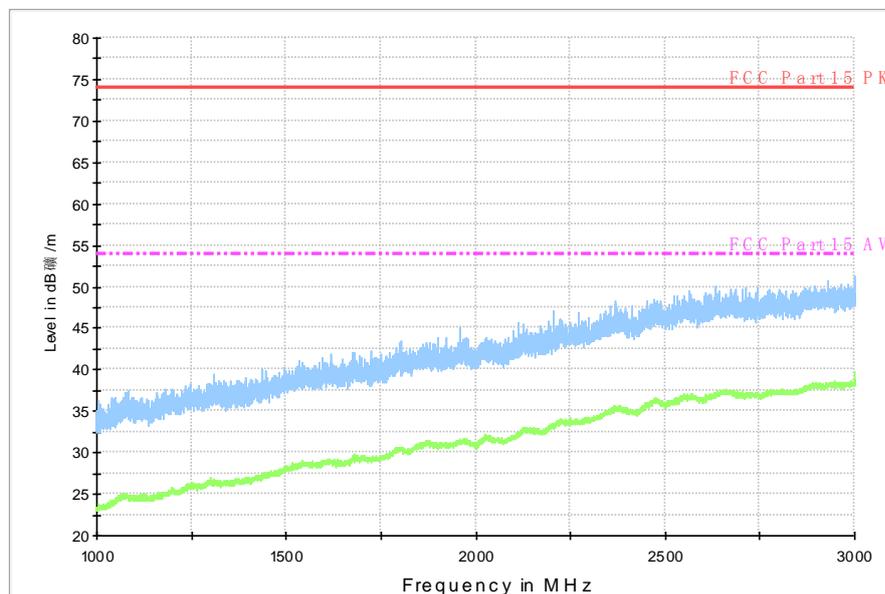


Fig. 91 Radiated Spurious Emission (802.11n-HT40, Ch159 1 GHz-3 GHz)

RE - 3GHz-6GHz

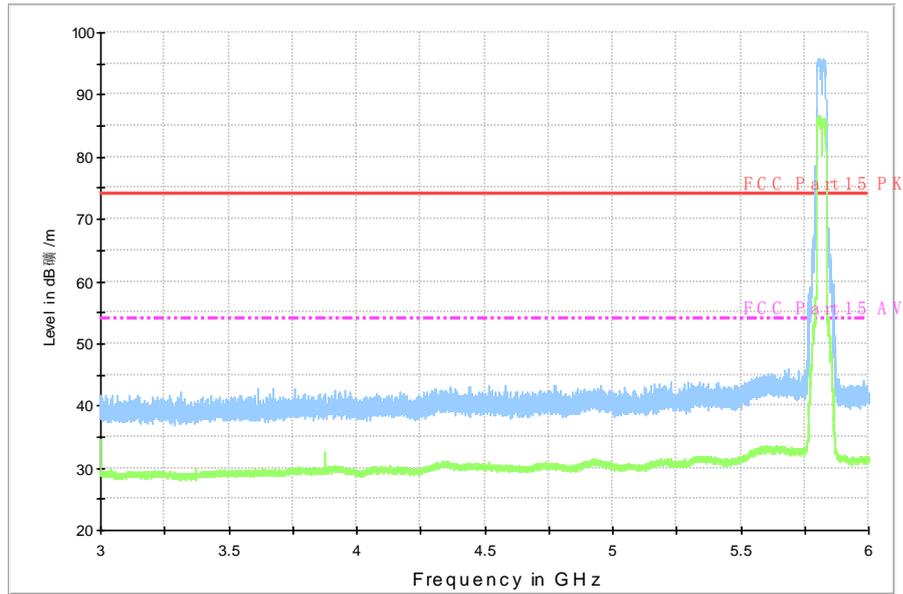


Fig. 92 Radiated Spurious Emission (802.11n-HT40, Ch159 3 GHz-6 GHz)

RE - 6GHz-18GHz

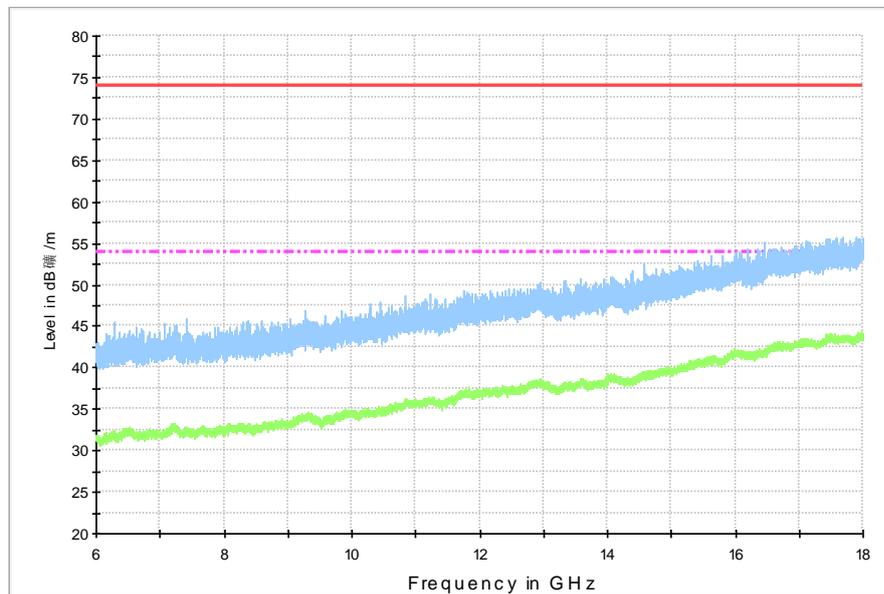


Fig. 93 Radiated Spurious Emission (802.11n-HT40, Ch159, 6 GHz-18 GHz)

A.6. Band Edges Compliance

A6.1 Band Edges - conducted

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5715MHz~5860MHz	< -17
	Below 5715MHz, Above5860MHz	< -27

The measurement is made according to KDB 789033 D02

Measurement Uncertainty:

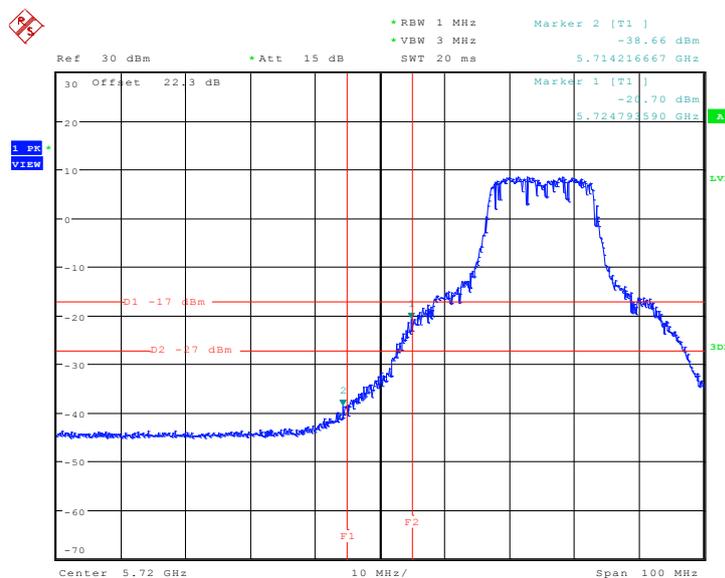
Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.94	P
	5825 MHz	Fig.95	P
802.11n HT20	5745 MHz	Fig.96	P
	5825 MHz	Fig.97	P
802.11n HT40	5755 MHz	Fig.98	P
	5795 MHz	Fig.99	P

Conclusion: PASS

Test graphs as below:



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Fig. 94 Band Edges (802.11a, 5745MHz)

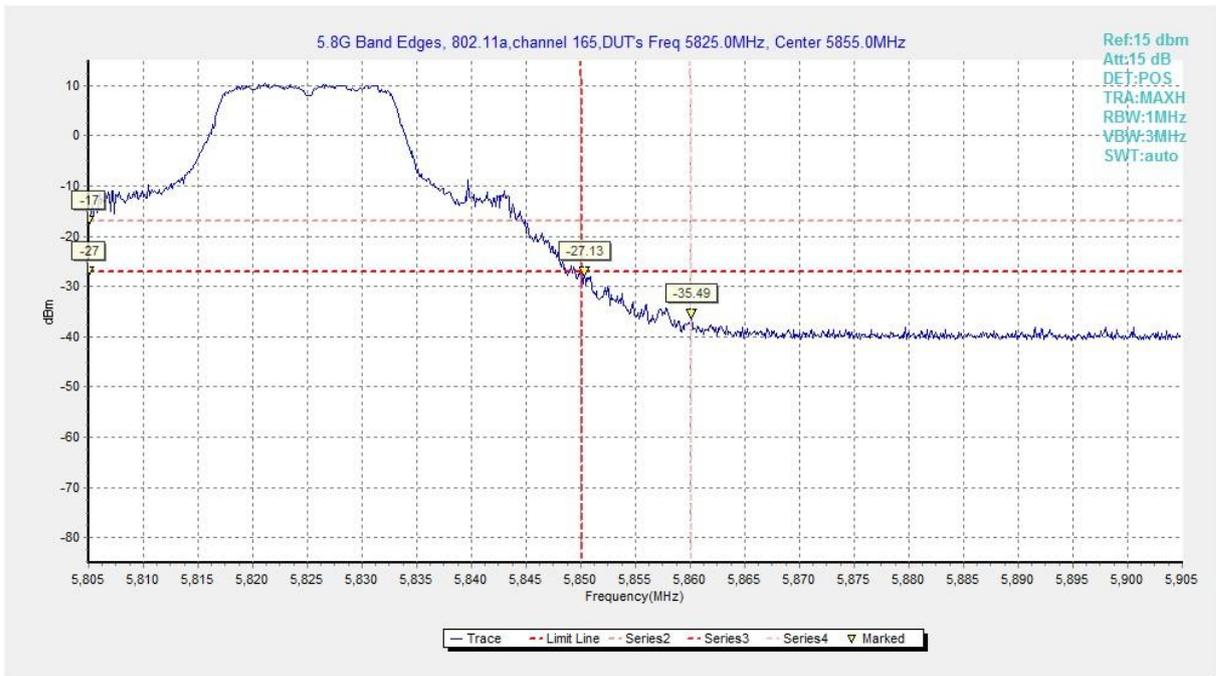


Fig. 95 Band Edges (802.11a, 5825MHz)

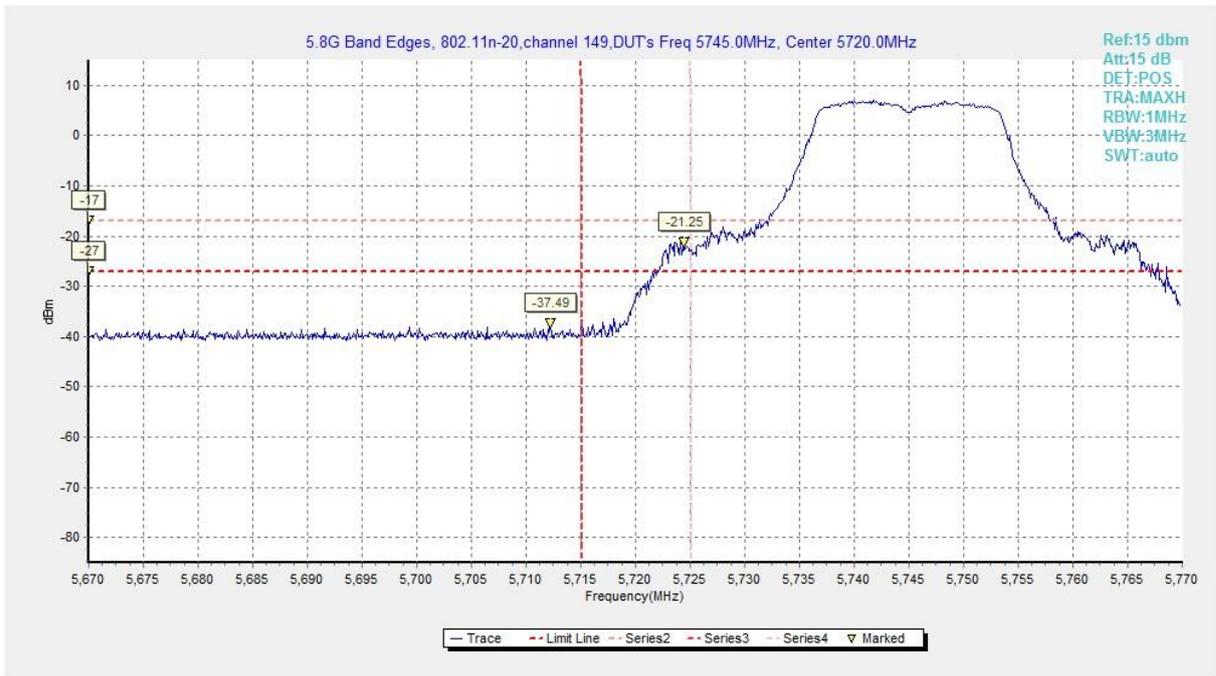


Fig. 96 Band Edges (802.11n-HT20, 5745MHz)

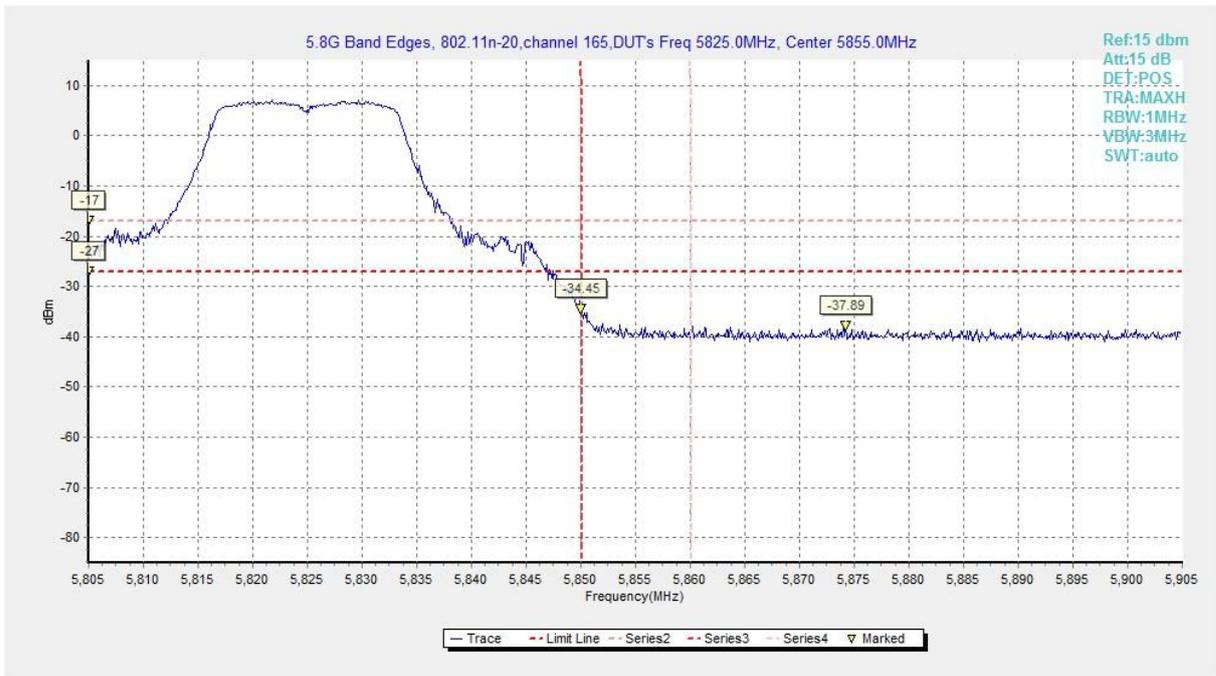


Fig. 97 Band Edges (802.11n-HT20, 5825MHz)



Fig. 98 Band Edges (802.11n-HT40, 5755MHz)

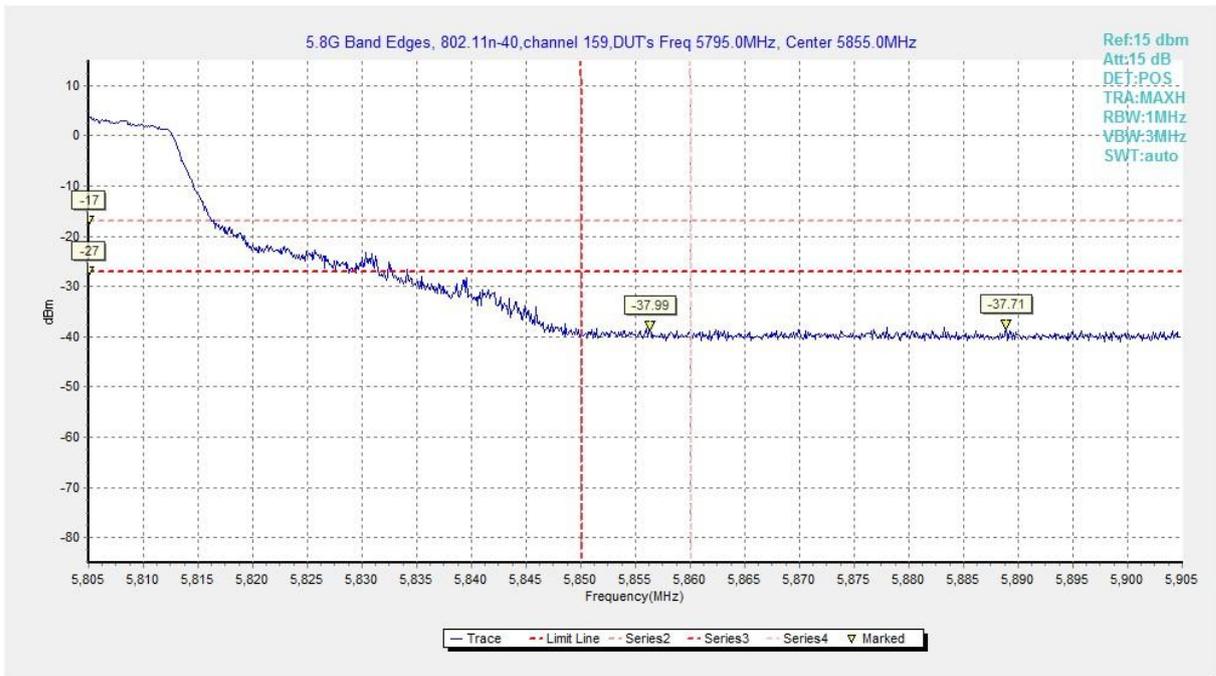


Fig. 99 Band Edges (802.11n-HT40, 5795MHz)

A6.2 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dB μ V/m)	
	FCC 47 CFR Part 15.209	Peak
	Average	54

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 Results	Conclusion
802.11a	5745 MHz	Fig.100	P
	5825 MHz	Fig.101	P
802.11n HT20	5745 MHz	Fig.102	P
	5825 MHz	Fig.103	P
802.11n HT40	5755 MHz	Fig.104	P
	5795 MHz	Fig.105	P

Conclusion: PASS

Test graphs as below:

RE - Power-5.685GHz-5.765GHz

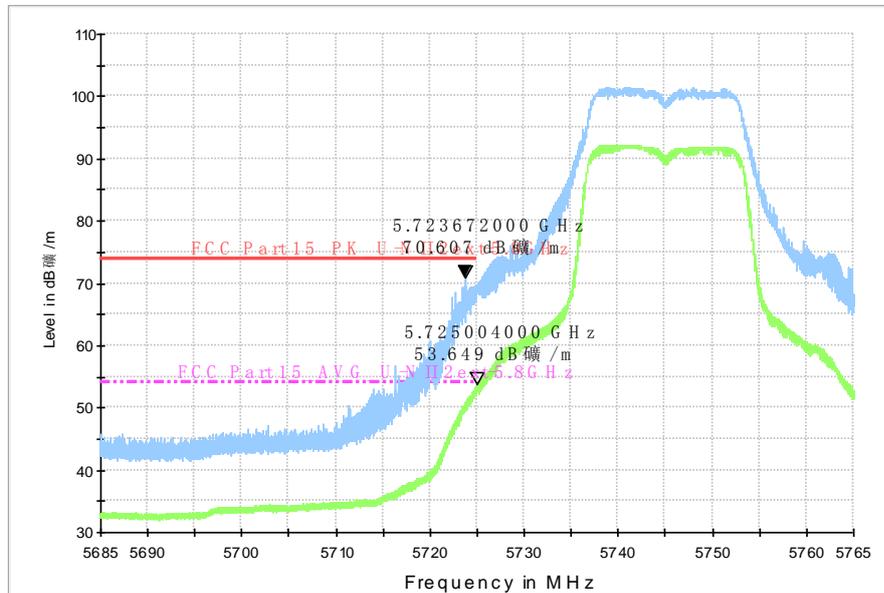


Fig. 100 Band Edges (802.11a, 5745MHz)

RE - Power-5.810GHz-5.890GHz

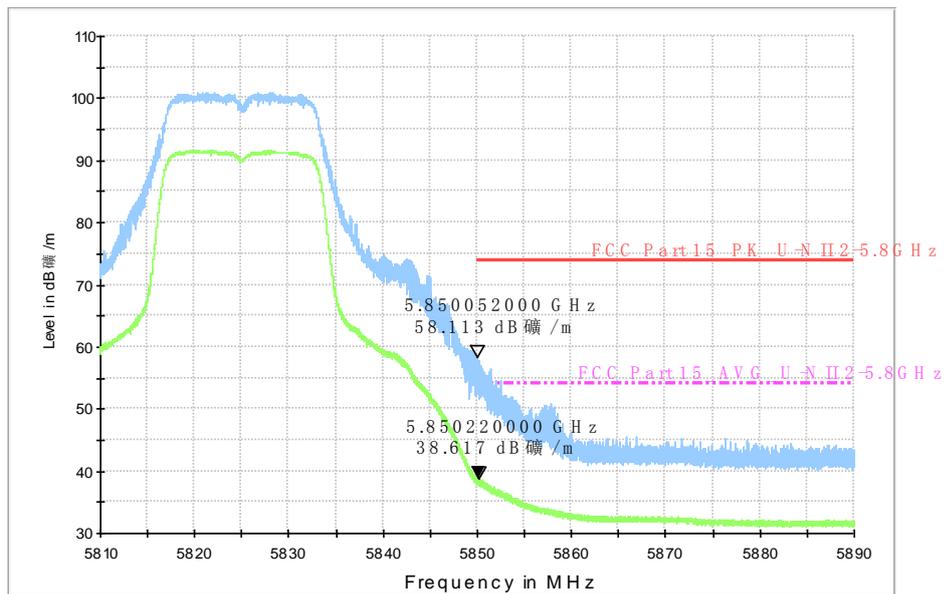


Fig. 101 Band Edges (802.11a, 5825MHz)

RE - Power-5.685GHz-5.765GHz

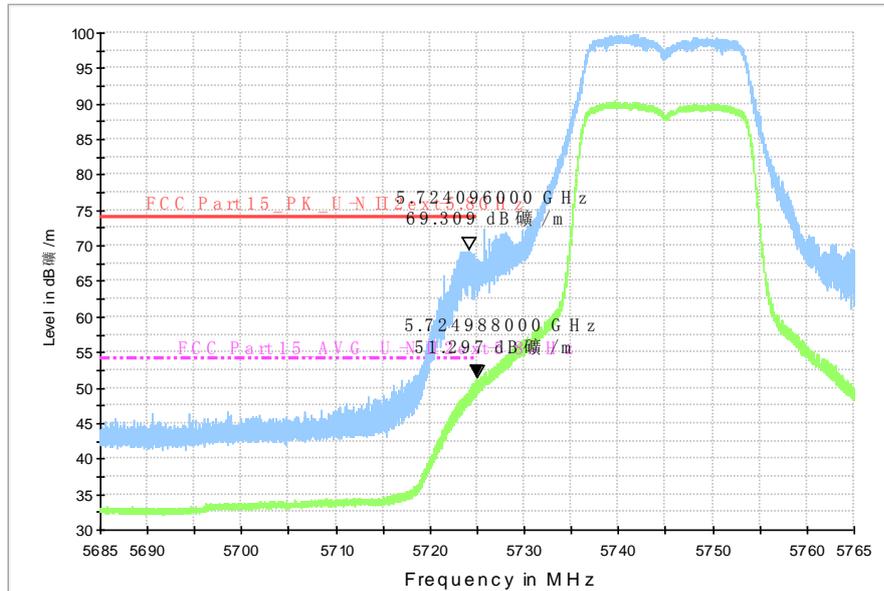


Fig. 102 Band Edges (802.11n-HT20, 5745MHz)

RE - Power-5.810GHz-5.890GHz

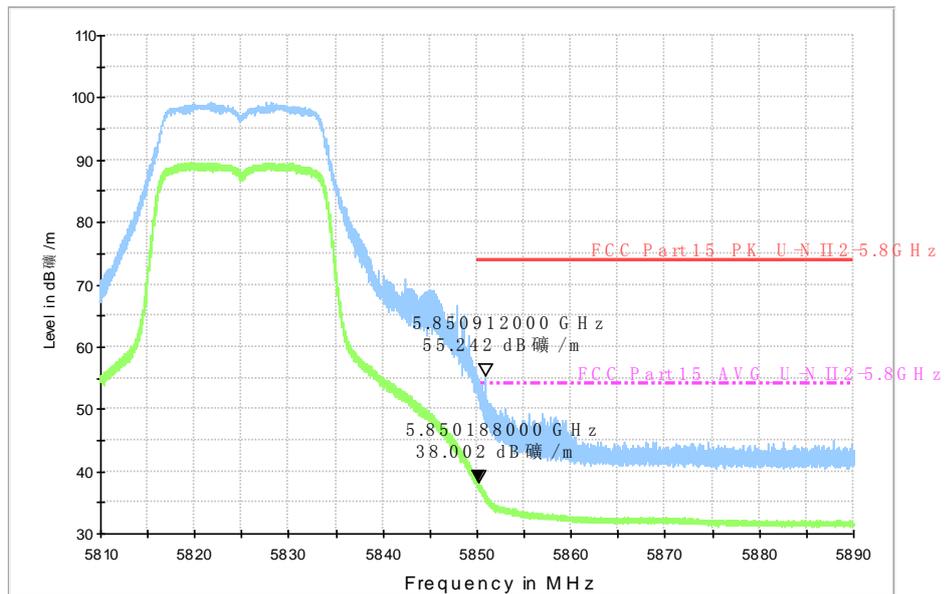


Fig. 103 Band Edges (802.11n-HT20, 5825MHz)

RE - Power-5.685GHz-5.765GHz

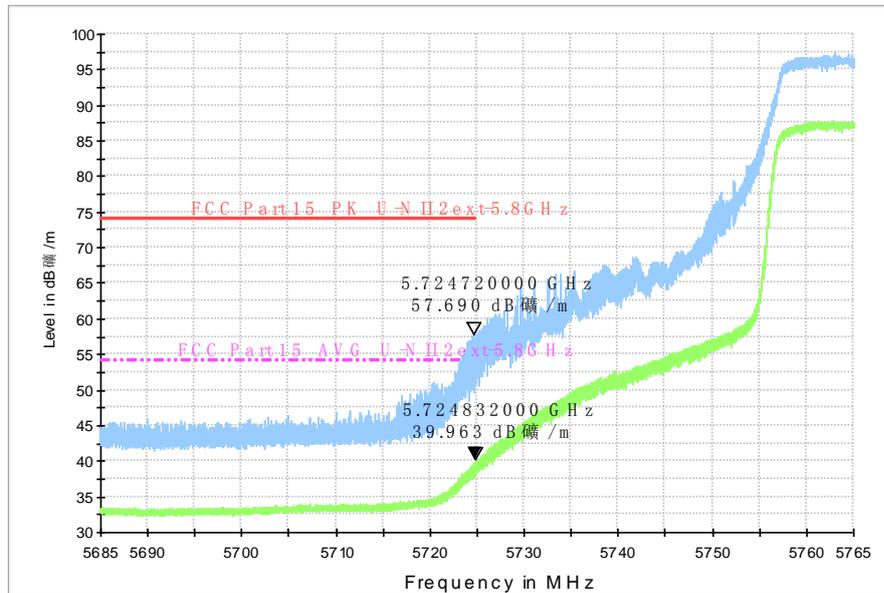


Fig. 104 Band Edges (802.11n-HT40, 5755MHz)

RE - Power-5.810GHz-5.890GHz

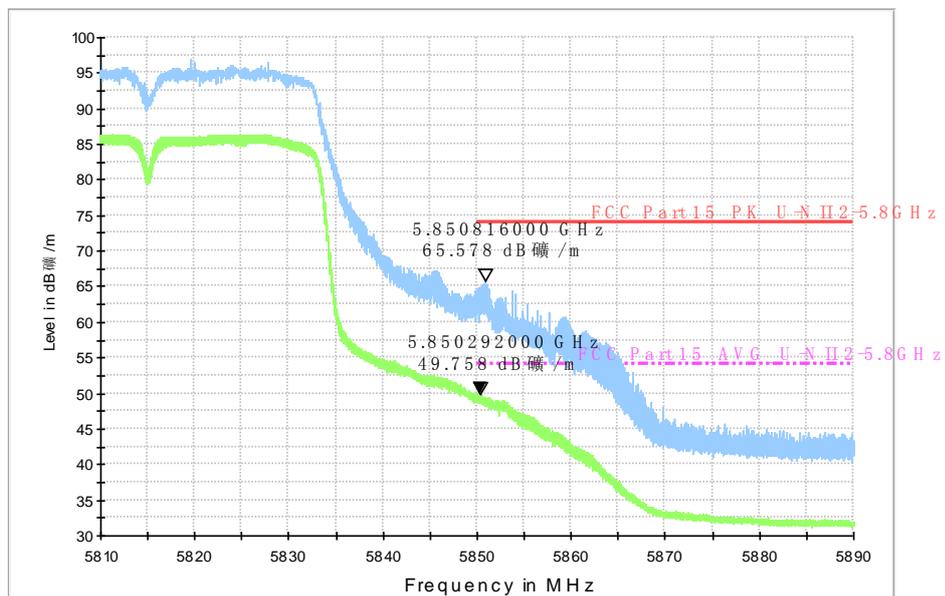


Fig. 105 Band Edges (802.11n-HT40, 5795MHz)

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 (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.98	Fig.99	P
0.5 to 5	56			
5 to 30	60			

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

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.106	Fig.107	P
0.5 to 5	46			
5 to 30	50			

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:

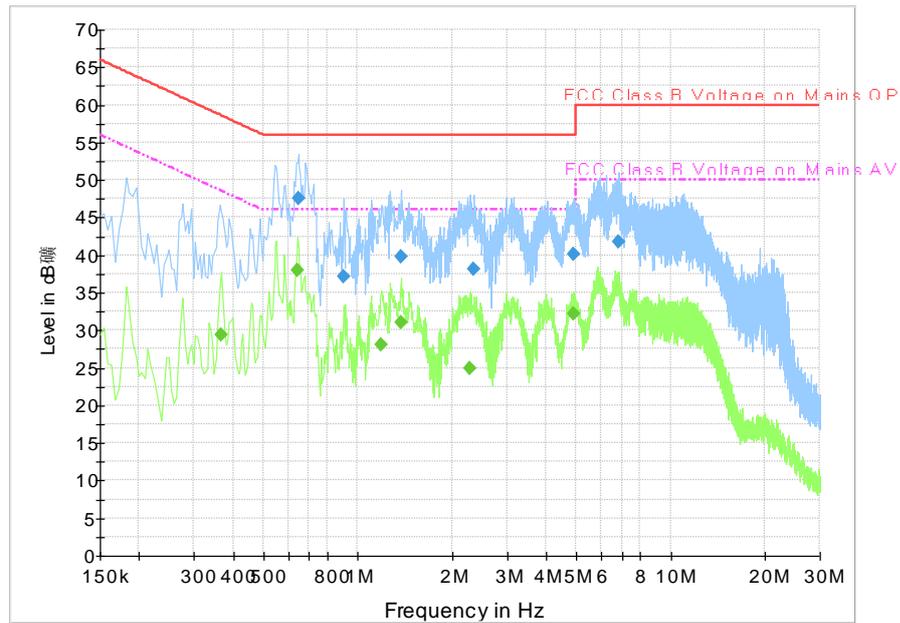


Fig. 106 AC Powerline Conducted Emission-802.11a

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.645000	47.5	2000.0	9.000	On	L1	19.8	8.5	56.0
0.901500	37.2	2000.0	9.000	On	L1	19.7	18.8	56.0
1.374000	39.8	2000.0	9.000	On	L1	19.7	16.2	56.0
2.346000	38.1	2000.0	9.000	On	L1	19.6	17.9	56.0
4.902000	40.1	2000.0	9.000	On	L1	19.7	15.9	56.0
6.819000	41.8	2000.0	9.000	On	L1	19.7	18.2	60.0

Measurement Result 2:

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.366000	29.3	2000.0	9.000	On	L1	19.8	19.3	48.6
0.640500	38.0	2000.0	9.000	On	L1	19.8	8.0	46.0
1.189500	28.0	2000.0	9.000	On	L1	19.7	18.0	46.0
1.374000	31.0	2000.0	9.000	On	L1	19.7	15.0	46.0
2.287500	24.9	2000.0	9.000	On	L1	19.7	21.1	46.0
4.902000	32.2	2000.0	9.000	On	L1	19.7	13.8	46.0

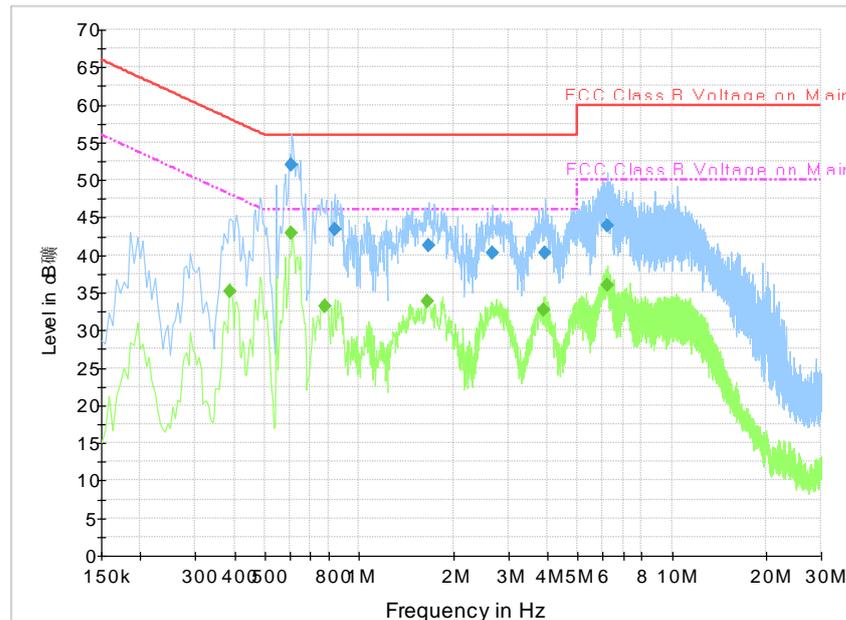


Fig. 107 AC Powerline Conducted Emission-Idle

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.609000	52.0	2000.0	9.000	On	L1	19.8	4.0	56.0
0.834000	43.4	2000.0	9.000	On	L1	19.8	12.6	56.0
1.671000	41.2	2000.0	9.000	On	L1	19.6	14.8	56.0
2.674500	40.3	2000.0	9.000	On	L1	19.7	15.7	56.0
3.943500	40.3	2000.0	9.000	On	L1	19.7	15.7	56.0
6.238500	44.0	2000.0	9.000	On	L1	19.7	16.0	60.0

Measurement Result 2:

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.388500	35.1	2000.0	9.000	On	L1	19.8	13.0	48.1
0.609000	42.9	2000.0	9.000	On	L1	19.8	3.1	46.0
0.775500	33.2	2000.0	9.000	On	L1	19.8	12.8	46.0
1.657500	33.8	2000.0	9.000	On	L1	19.6	12.2	46.0
3.894000	32.8	2000.0	9.000	On	L1	19.7	13.2	46.0
6.207000	36.0	2000.0	9.000	On	L1	19.7	14.0	50.0

A.8. Spurious Emissions Radiated < 30MHz

Measurement Limit:

Frequency (MHz)	Field strength(dBµV/m)	Measurement distance
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

The measurement is made according to KDB 789033

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 Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	157(5785MHz)	9 kHz ~30 MHz	Fig.108	P

Conclusion: PASS

Test graphs as below:

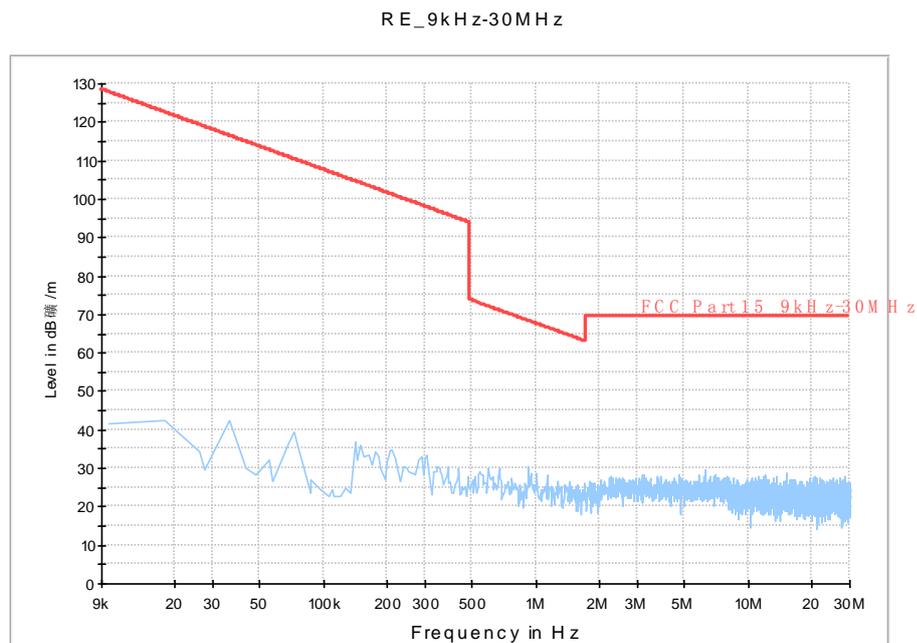


Fig. 108 Radiated Spurious Emission (802.11a, ch157, 9 kHz ~30 MHz)

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