

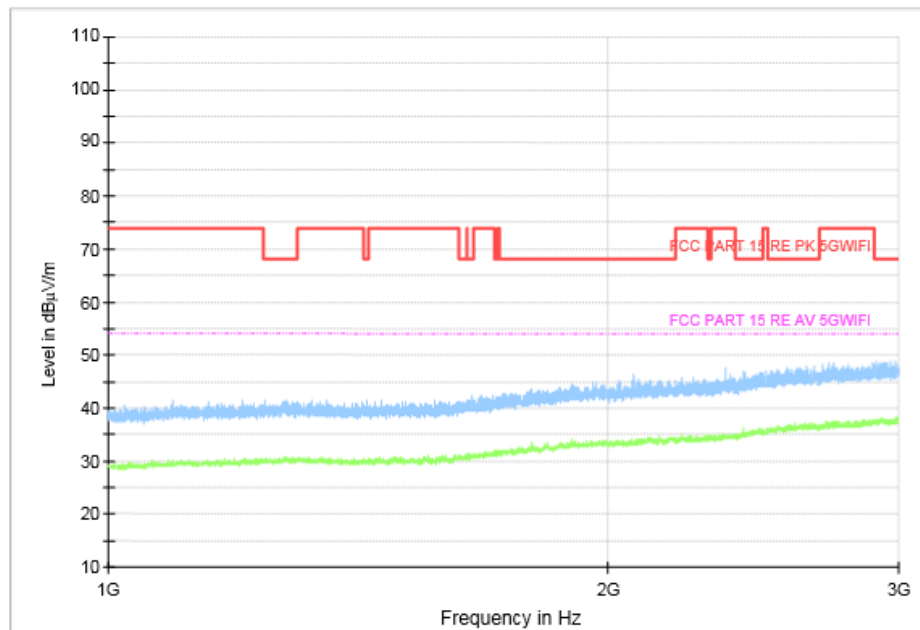


Fig. 192 Transmitter Spurious Emission (802.11ac-VHT80, CH58 5290MHz, 1 GHz-3 GHz)

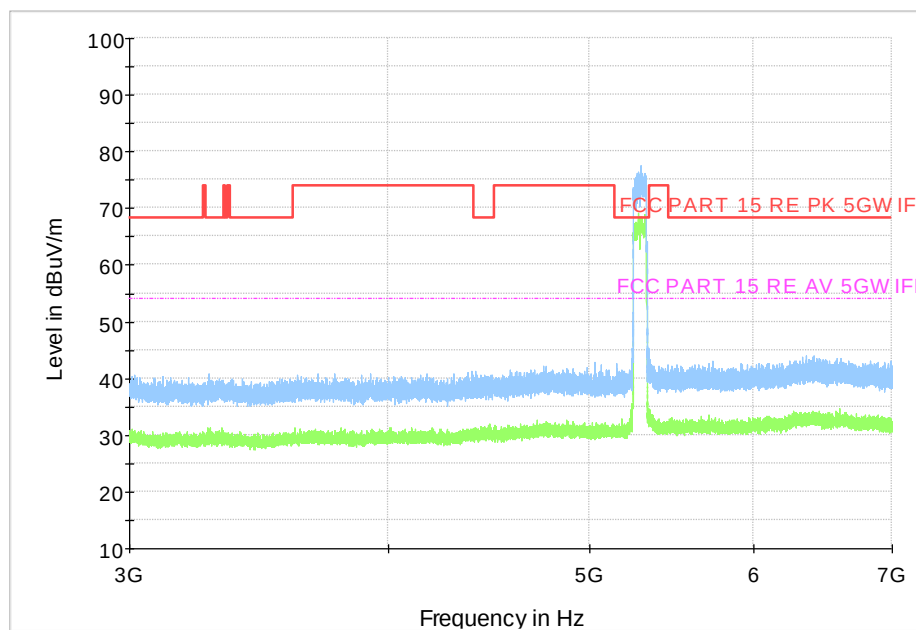


Fig. 193 Transmitter Spurious Emission (802.11ac-VHT80, CH58 5290MHz, 3 GHz-7 GHz)

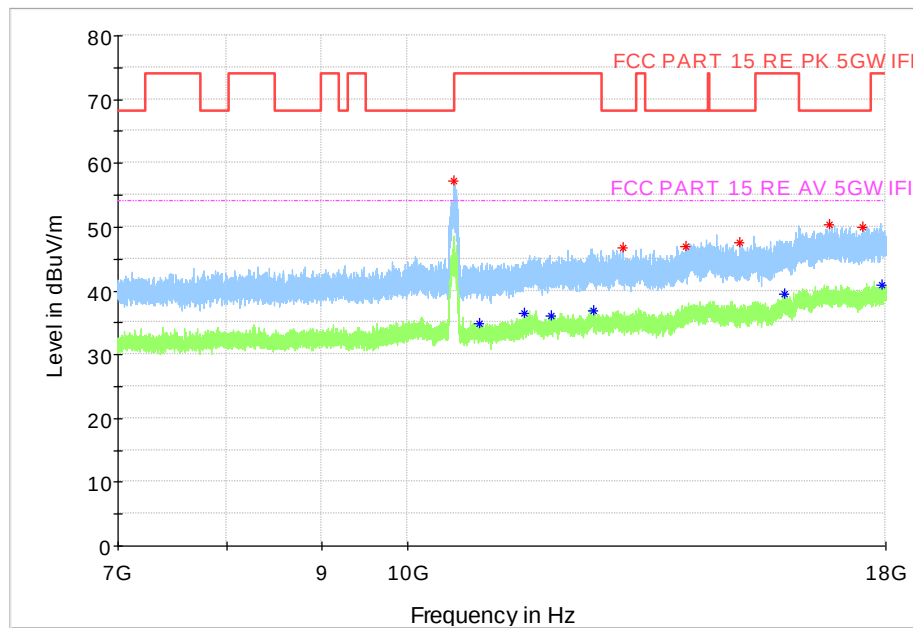


Fig. 194 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz, 7 GHz-18 GHz)

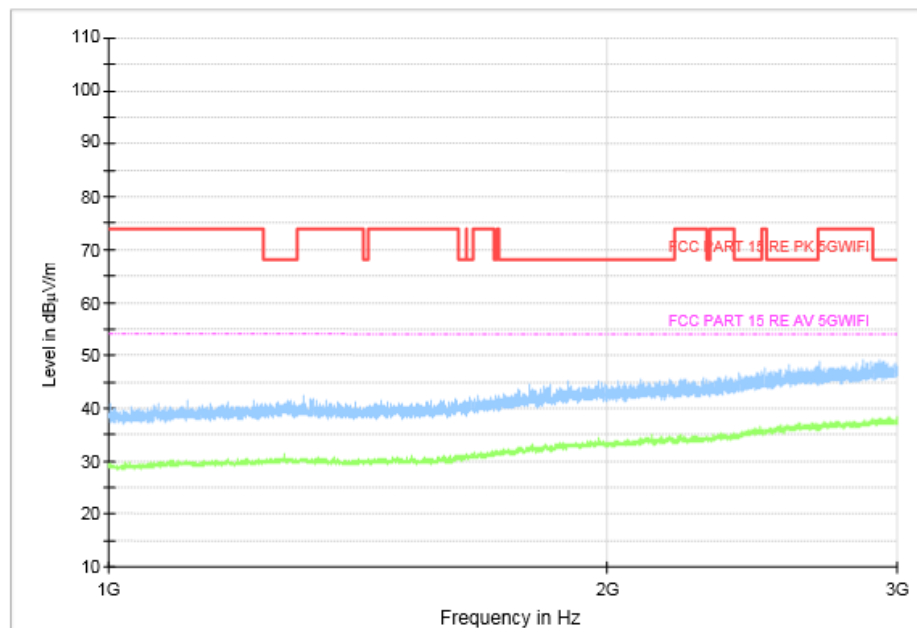


Fig. 195 Transmitter Spurious Emission (802. 11ac-VHT80, CH106 5530MHz, 1 GHz-3 GHz)

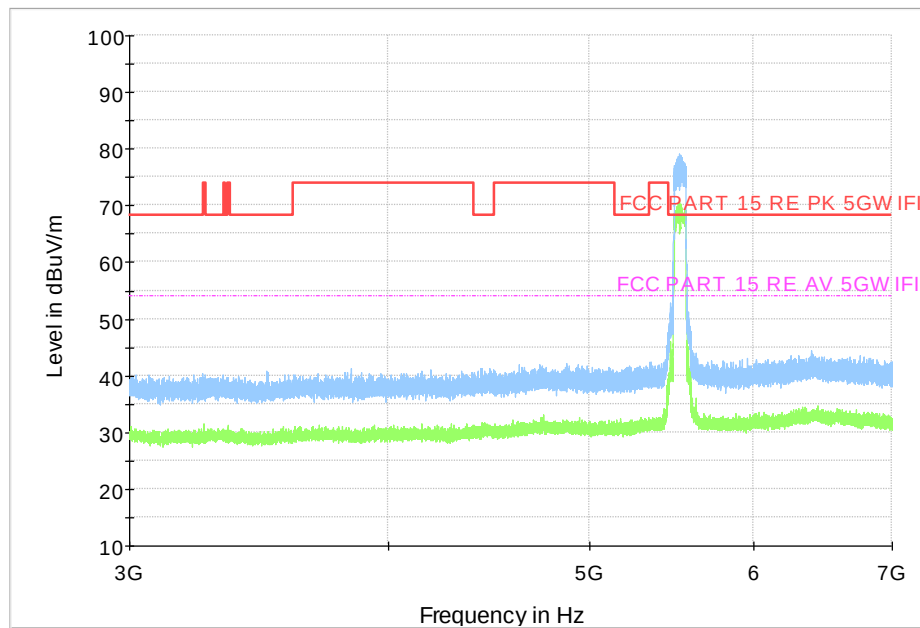


Fig. 196 Transmitter Spurious Emission (802. 11ac-VHT80, CH106 5530MHz, 3 GHz-7 GHz)

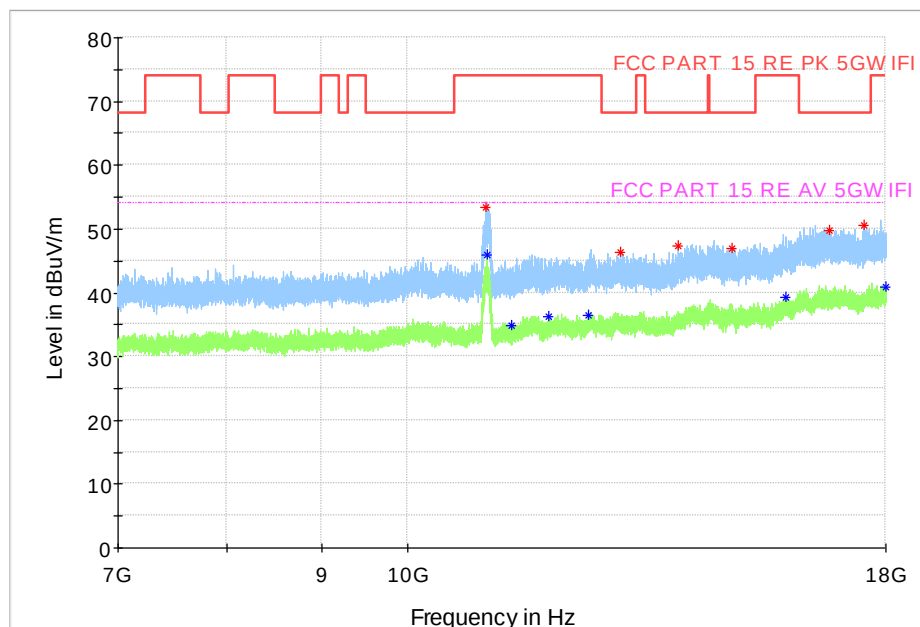


Fig. 197 Transmitter Spurious Emission (802. 11ac-VHT80, CH106 5530MHz, 7 GHz-18 GHz)

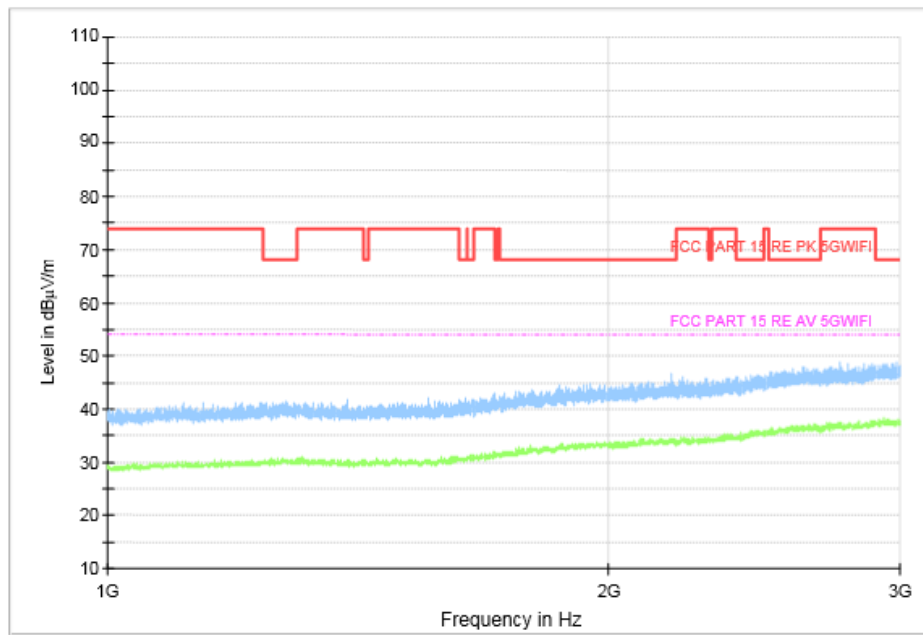


Fig. 198 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 1 GHz-3 GHz)

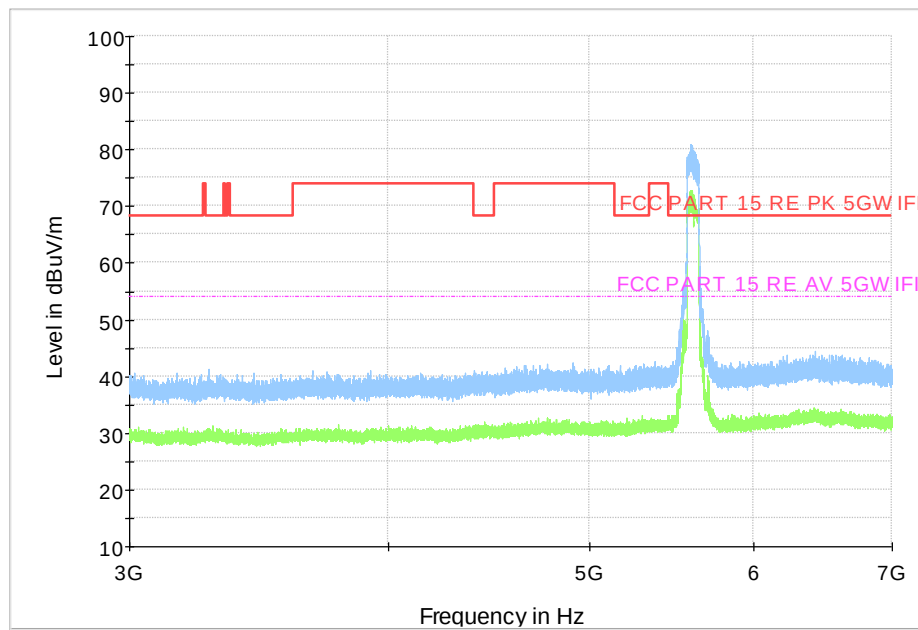


Fig. 199 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 3 GHz-7 GHz)

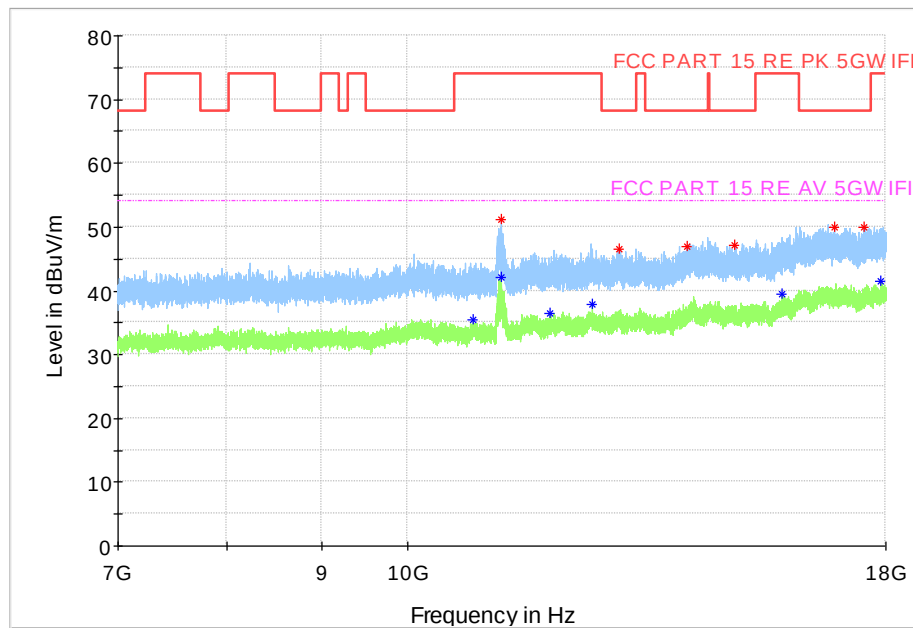


Fig. 200 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 7 GHz-18 GHz)

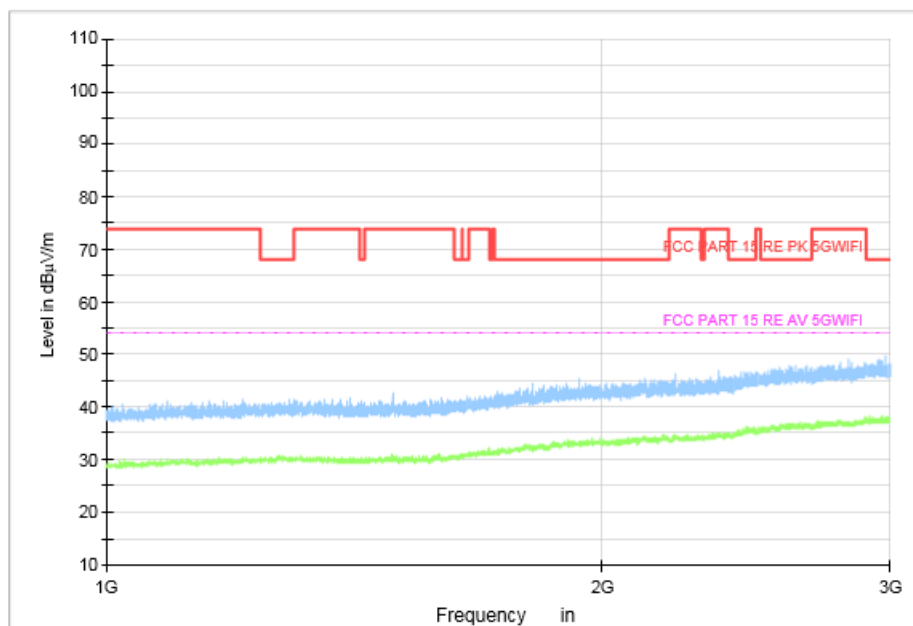


Fig. 201 Transmitter Spurious Emission (802.11ac-VHT80, CH155 5775MHz, 1 GHz-3 GHz)

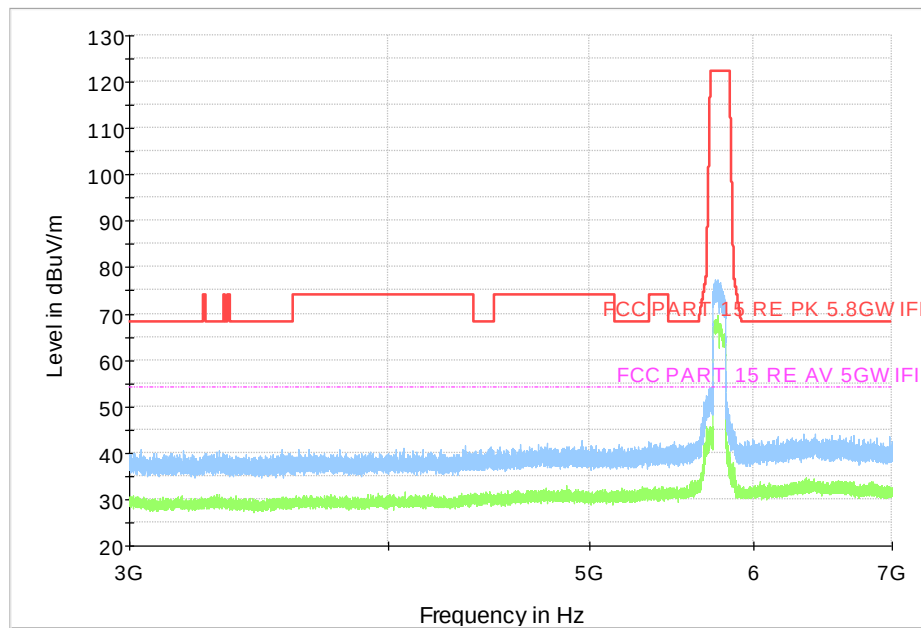


Fig. 202 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz, 3 GHz-7 GHz)

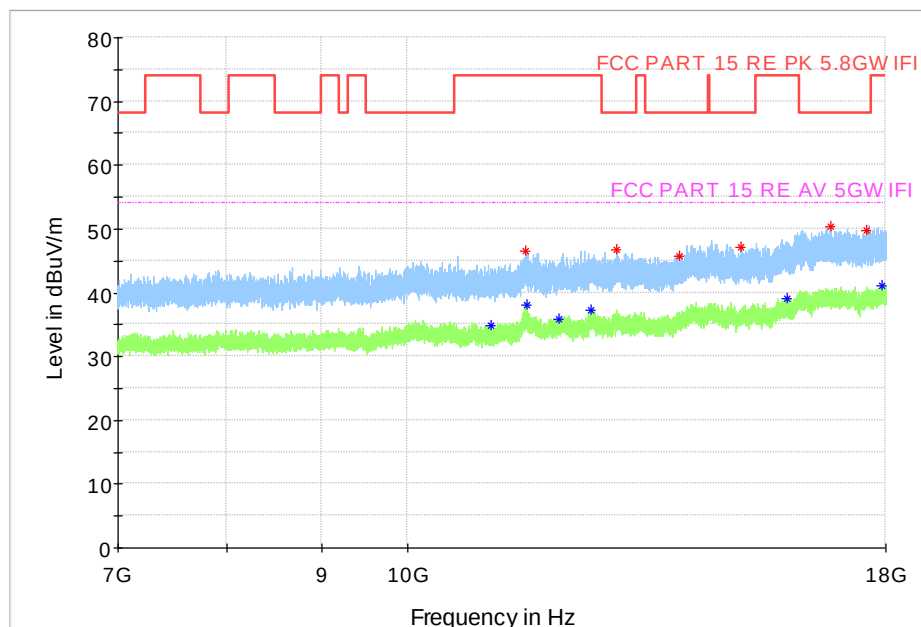


Fig. 203 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz, 7 GHz-18 GHz)

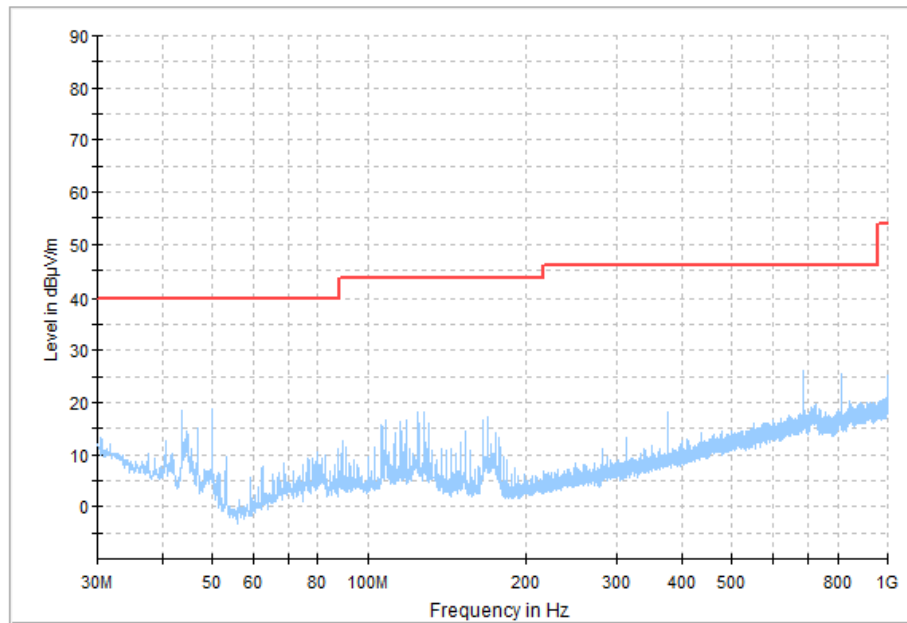


Fig. 204 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

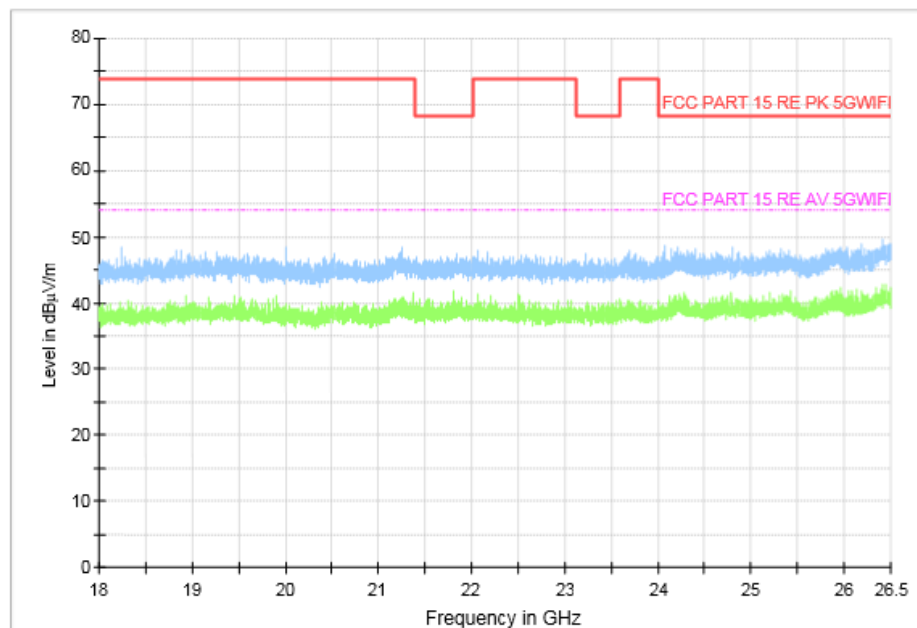


Fig. 205 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

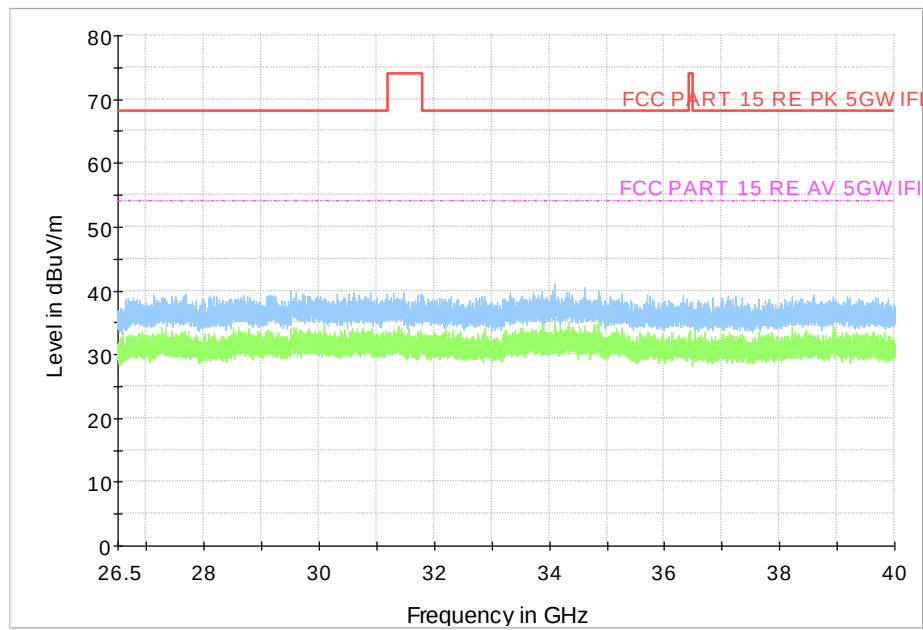


Fig. 206 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

A.9. Radiated Spurious Emissions < 30MHz

Measurement Limit (15.209, 9kHz-30MHz):

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
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.

Note: The measurement distance during the test is 3m. The limit used in plots recalculated based on the extrapolation factor of 40 dB/decade.

Measurement Result(Worst case):

Mode	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~30 MHz	Fig.207	P

Conclusion: PASS

Test graphs as below:

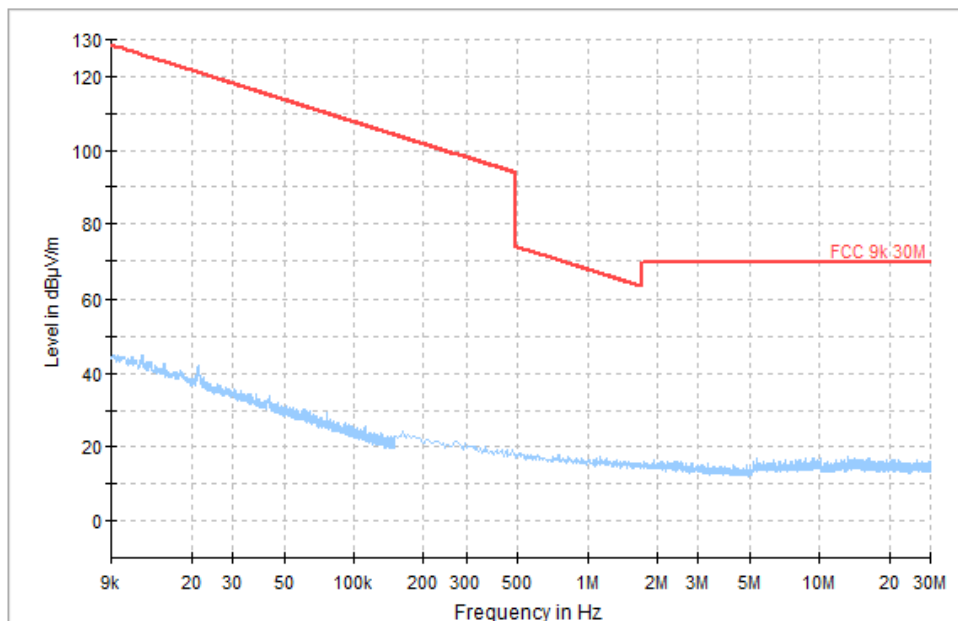


Fig. 207 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)

A.10. AC Power Line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.208	Fig.209	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.

RLAN (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig 208	Fig 209	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.

Note: The measurement results include the L1 and N measurements.

Conclusion: PASS

Test graphs as below:

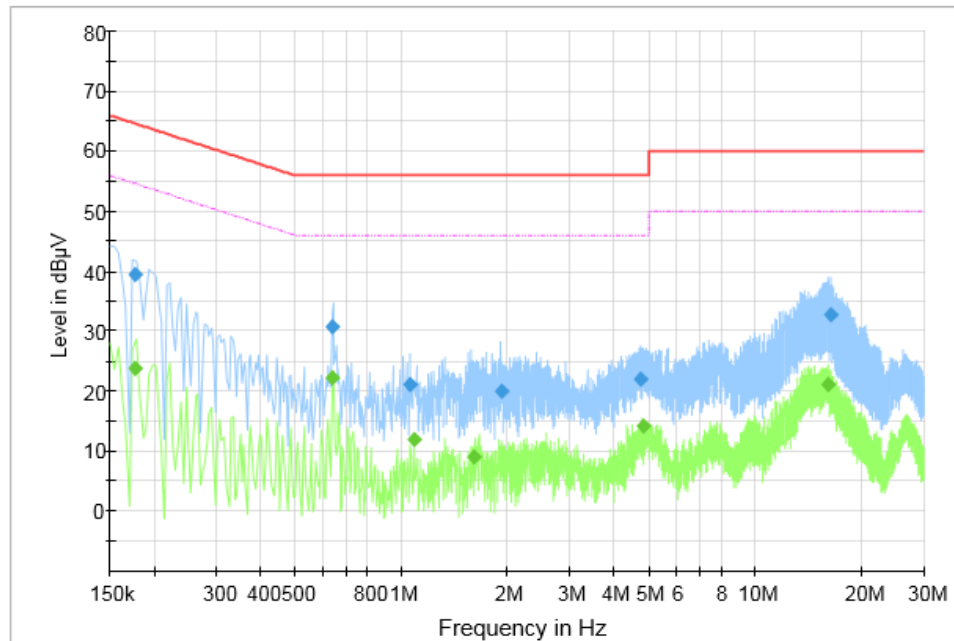


Fig. 208 AC Power line Conducted Emission (802.11n, AE1, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.176	39.57	64.67	25.11	N	ON	9.6
0.636	30.85	56.00	25.15	N	ON	9.6
1.060	21.06	56.00	34.94	N	ON	9.7
1.924	20.03	56.00	35.97	L1	ON	9.7
4.736	21.93	56.00	34.07	N	ON	9.7
16.360	32.85	60.00	27.15	L1	ON	9.8

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.176	23.75	54.67	30.92	N	ON	9.6
0.640	22.15	46.00	23.85	N	ON	9.6
1.084	11.90	46.00	34.10	N	ON	9.7
1.608	8.95	46.00	37.05	L1	ON	9.7
4.848	14.19	46.00	31.81	L1	ON	9.7
16.088	21.15	50.00	28.85	L1	ON	9.8

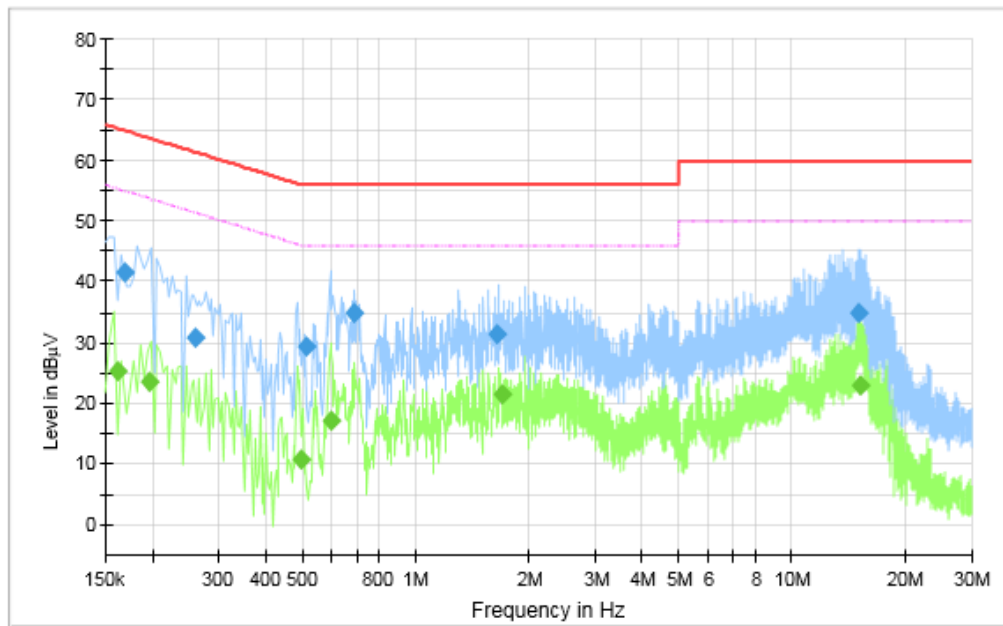


Fig. 209 AC Power line Conducted Emission (Idle, AE1, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.512	29.32	56.00	26.68	N	ON	9.6
0.260	30.68	61.43	30.76	N	ON	9.6
1.640	31.41	56.00	24.59	N	ON	9.7
15.040	34.80	60.00	25.20	N	ON	9.8
0.684	34.88	56.00	21.12	N	ON	9.6
0.168	41.53	65.06	23.52	L1	ON	9.6

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162	25.18	55.36	30.18	N	ON	9.6
0.196	23.50	53.78	30.28	N	ON	9.6
0.496	10.60	46.07	35.47	N	ON	9.6
0.596	17.03	46.00	28.97	N	ON	9.6
1.700	21.43	46.00	24.57	N	ON	9.7
15.208	22.91	50.00	27.09	N	ON	9.8

A.11. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Measurement Result:

Mode	Channel	Condition		Frequency	Conclusion
802.11a	5180 MHz (CH36)	T nom	V nom	5179.9865	P
		T max	V nom	5179.9781	P
		T min	V nom	5179.9858	P
		T nom	V max	5179.9852	P
		T nom	V min	5179.9790	P
802.11n-HT20	5180 MHz (CH36)	T nom	V nom	5179.9874	P
		T max	V nom	5179.9796	P
		T min	V nom	5179.9839	P
		T nom	V max	5179.9784	P
		T nom	V min	5179.9842	P
802.11n-HT40	5550 MHz (CH110)	T nom	V nom	5549.9243	P
		T max	V nom	5549.9672	P
		T min	V nom	5549.9687	P
		T nom	V max	5549.9566	P
		T nom	V min	5549.9643	P
802.11ac VHT80	5690 MHz (CH138)	T nom	V nom	5689.9869	P
		T max	V nom	5689.9672	P
		T min	V nom	5689.9768	P
		T nom	V max	5689.9887	P
		T nom	V min	5689.9974	P

A.12. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

END OF REPORT