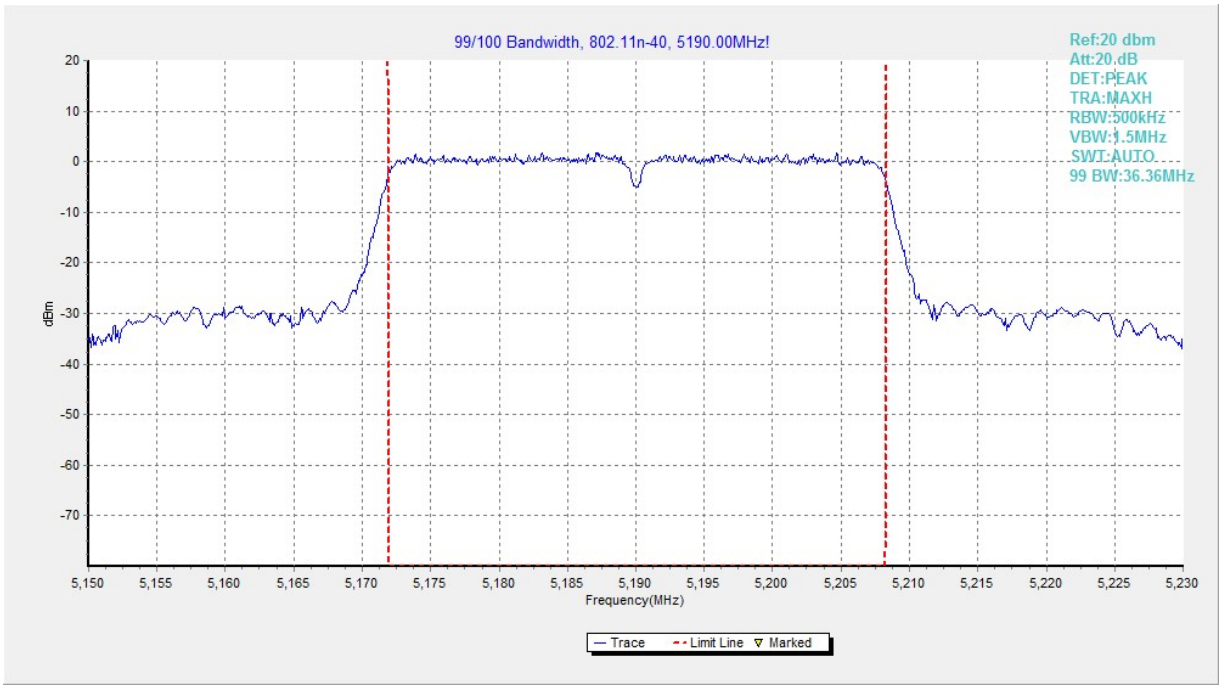

Fig. 37 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

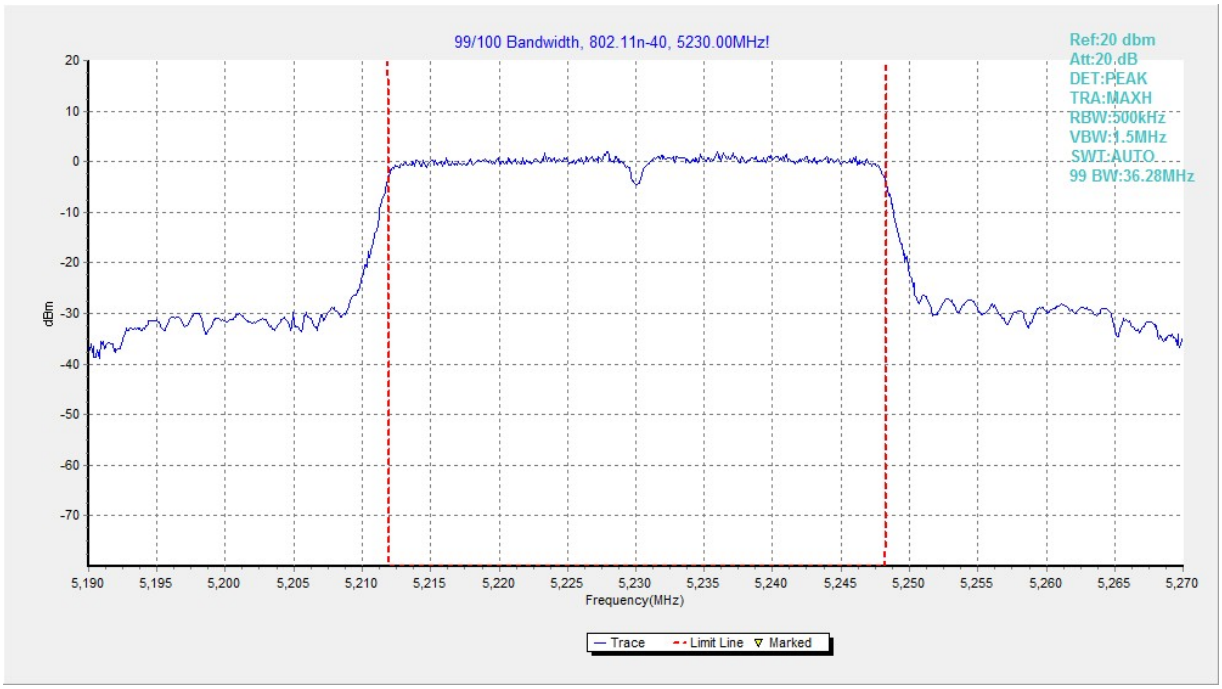

Fig. 38 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

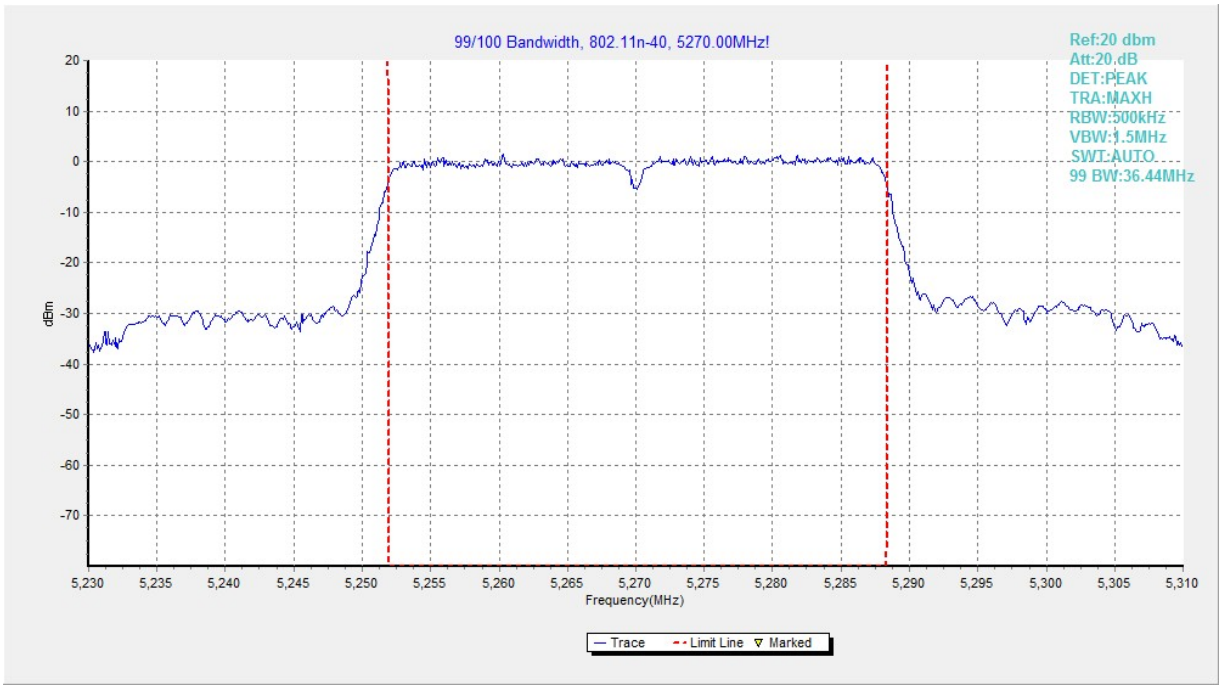

Fig. 39 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

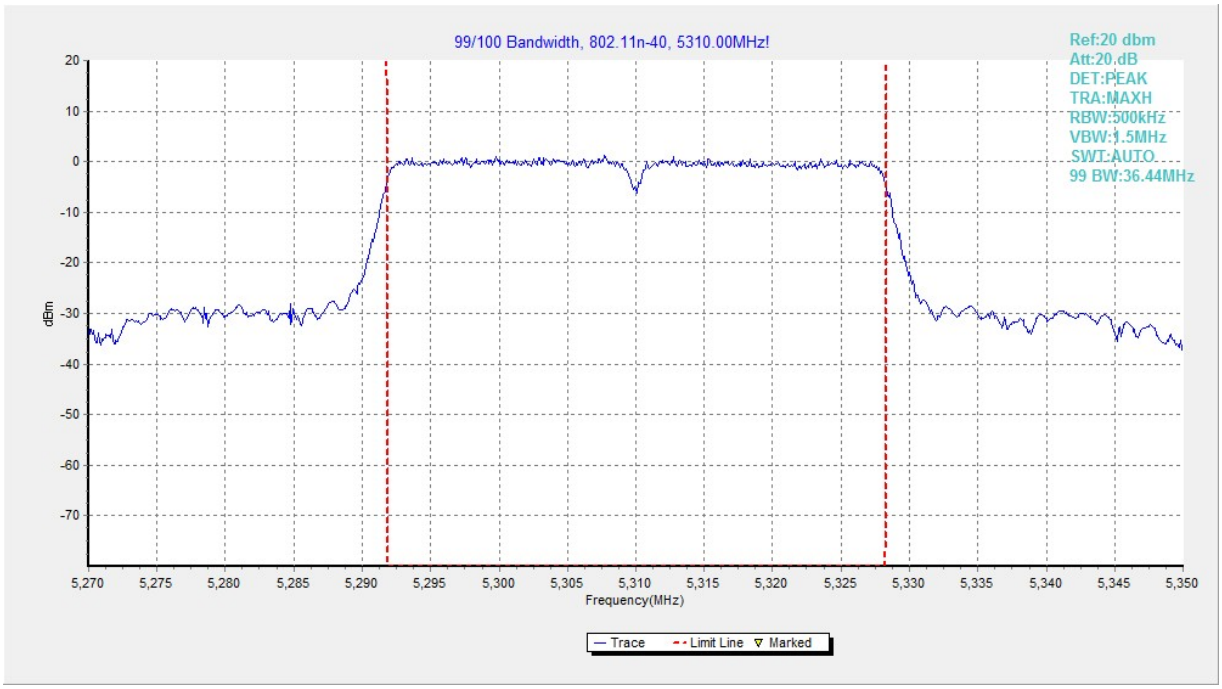

Fig. 40 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

A.7. Band Edges Compliance

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5150MHz~5250MHz; 5250MHz~5350MHz; 5470MHz~5725MHz	< -27

Standard	Frequency (MHz)	Limit (dBuV/m)	
FCC 47 CFR Part 15.209	5725MHz~5850MHz	Peak	74
		Average	54

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz(CH36)	Fig.41	**P**
	5320 MHz(CH64)	Fig.42	**P**
	5745 MHz(CH149)	Fig.43	**P**
	5825 MHz(CH165)	Fig.44	**P**
802.11n-HT20	5180 MHz(CH36)	Fig.45	**P**
	5320 MHz(CH64)	Fig.46	**P**
	5745 MHz(CH149)	Fig.47	**P**
	5825 MHz(CH165)	Fig.48	**P**
802.11n-HT40	5190 MHz(CH38)	Fig.49	**P**
	5310 MHz(CH62)	Fig.50	**P**
	5755 MHz(CH151)	Fig.51	**P**
	5795 MHz(CH159)	Fig.52	**P**

Conclusion: PASS

Test graphs as below:

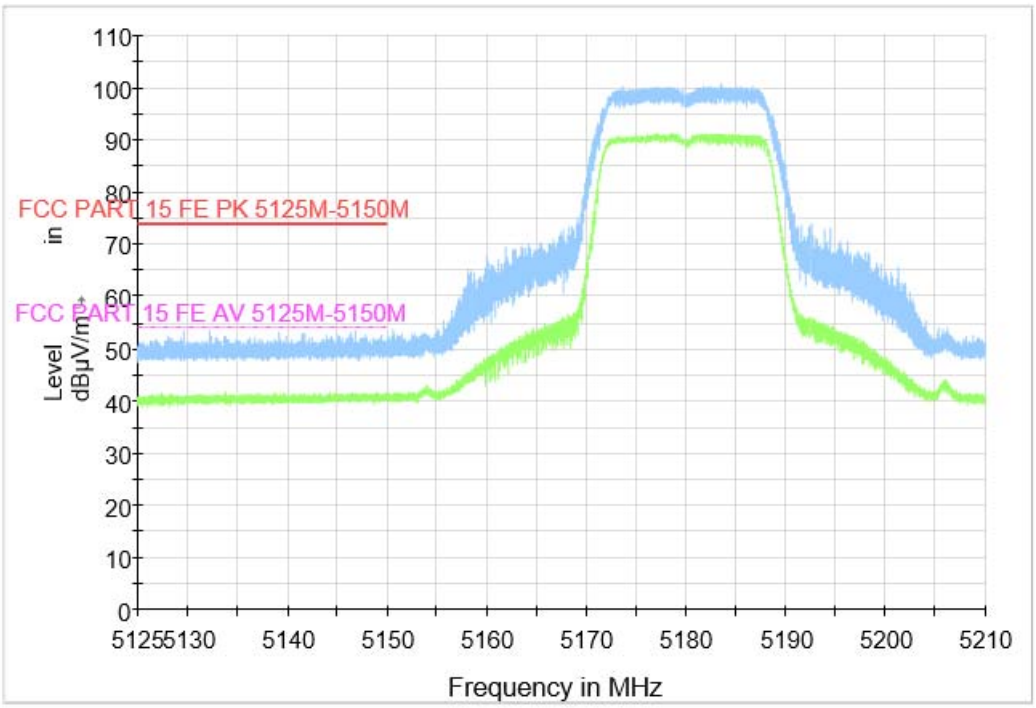

Fig. 41 Band Edges (802.11a, CH36 5180MHz)

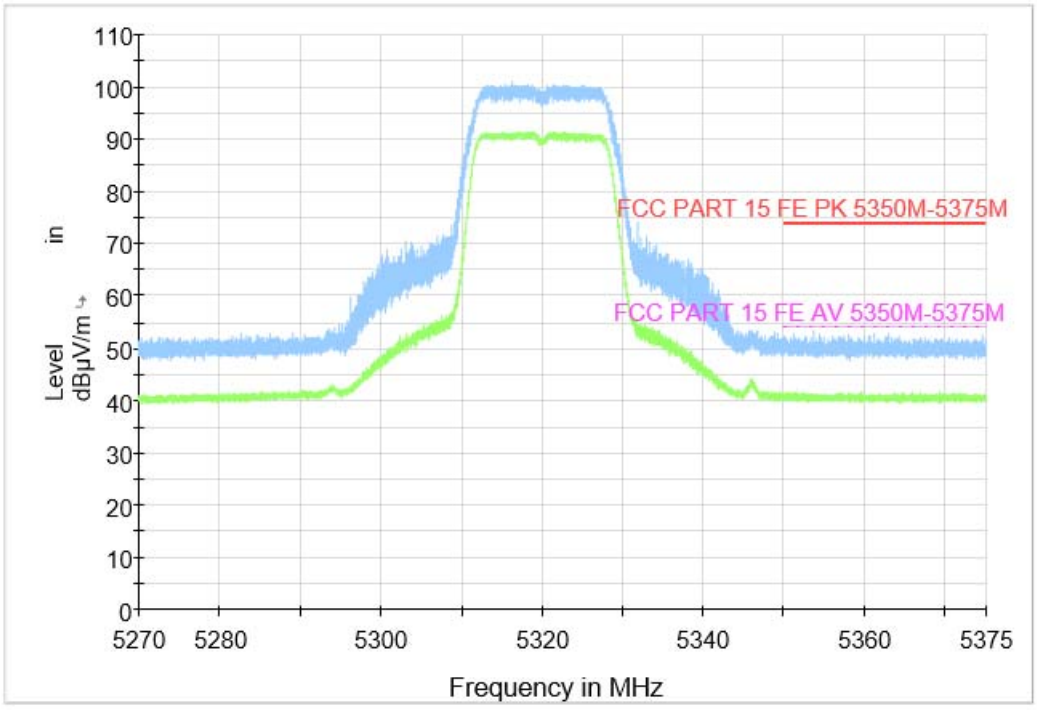

Fig. 42 Band Edges (802.11a, CH64 5320MHz)

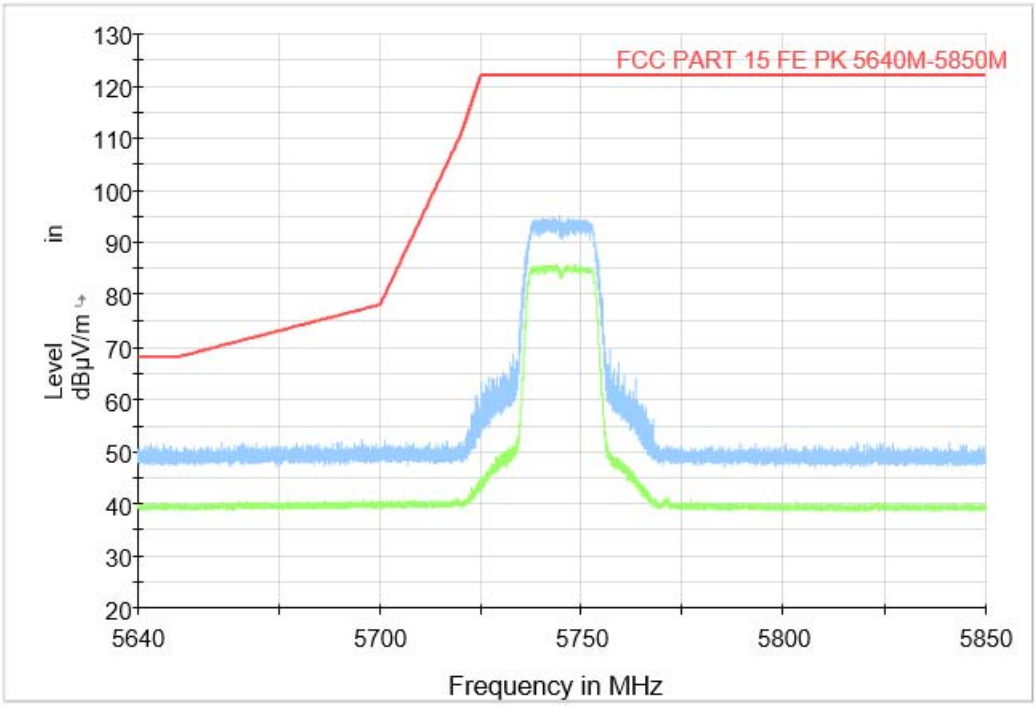

Fig. 43 Band Edges (802.11a, CH149 5745MHz)

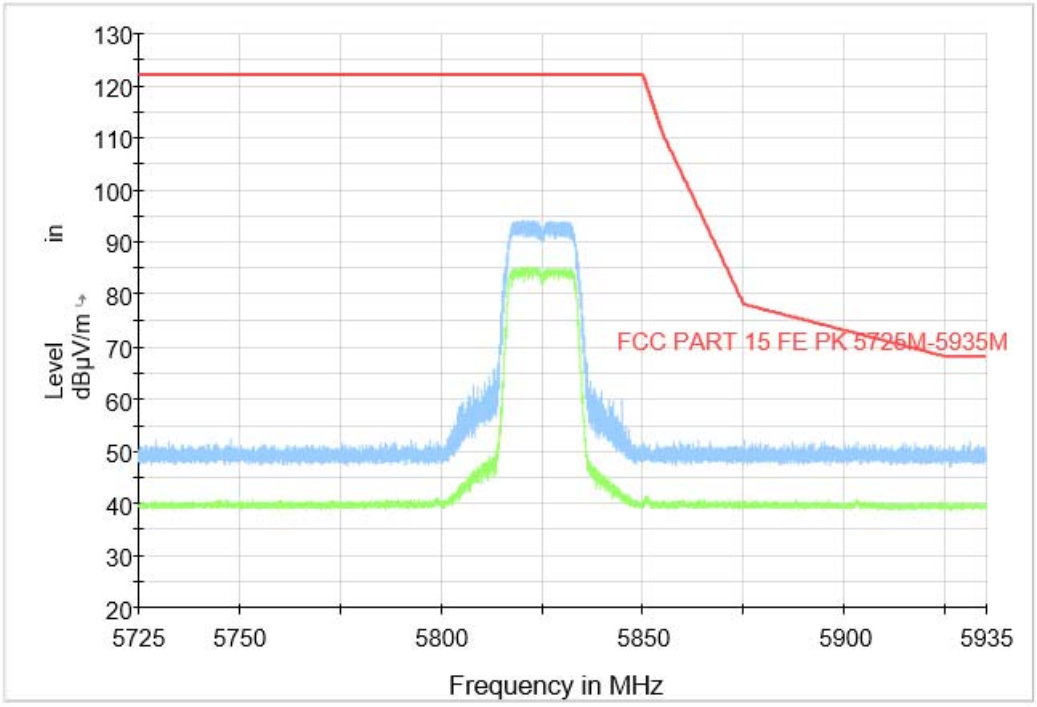

Fig. 44 Band Edges (802.11a, CH165 5825MHz)

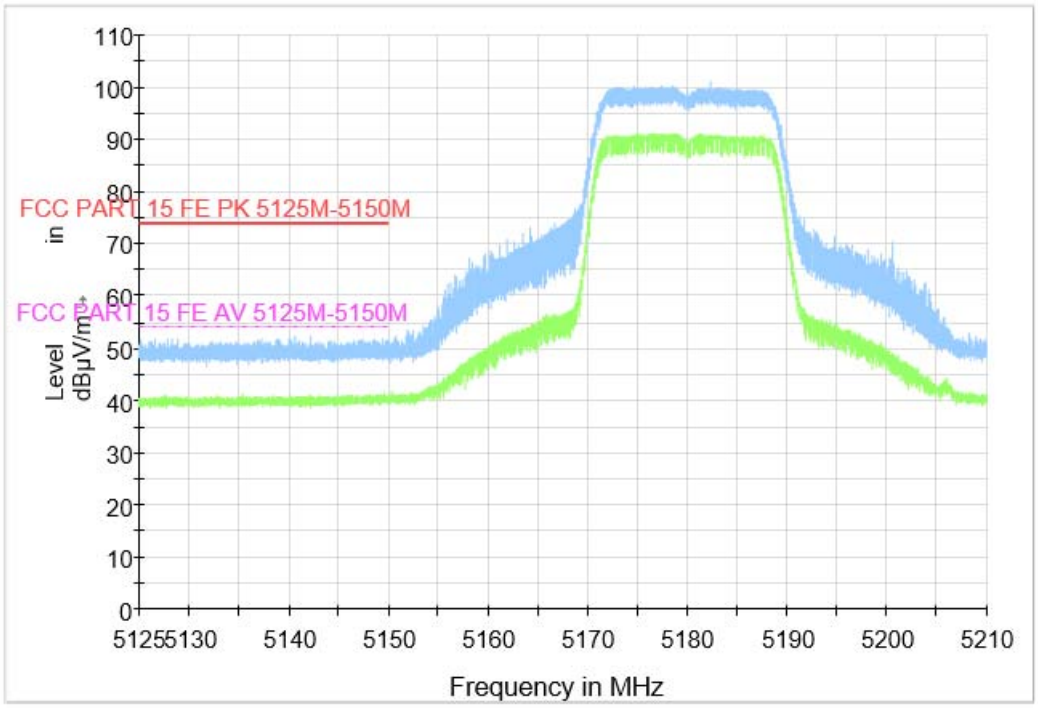

Fig. 45 Band Edges (802.11n-HT20, CH36 5180MHz)

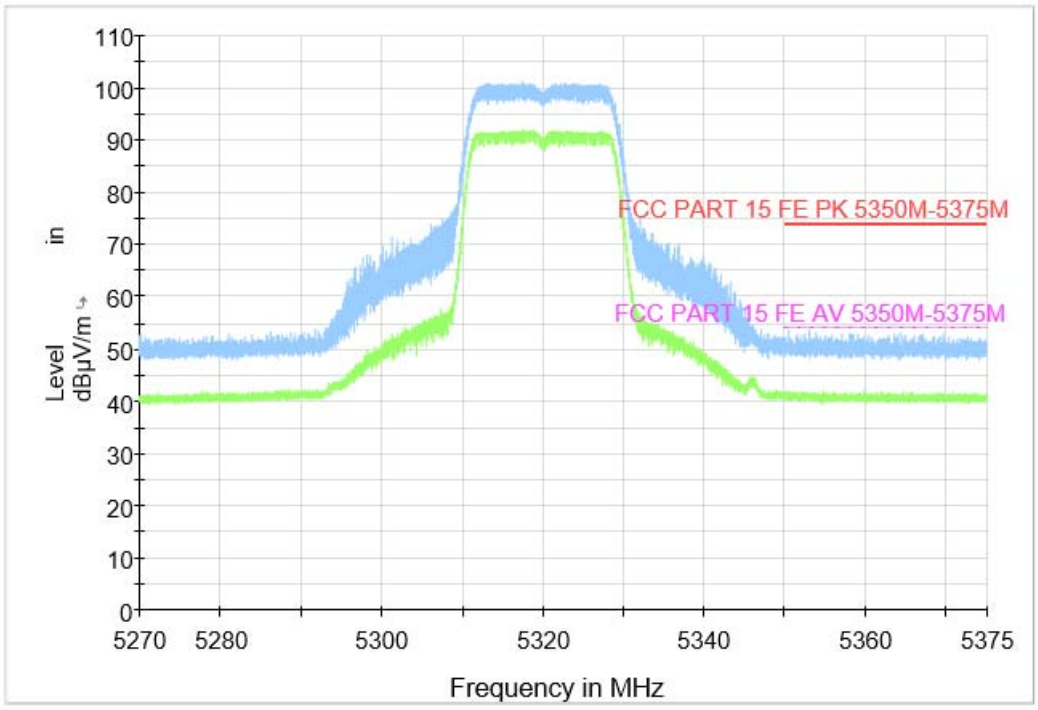

Fig. 46 Band Edges (802.11n-HT20, CH64 5320MHz)

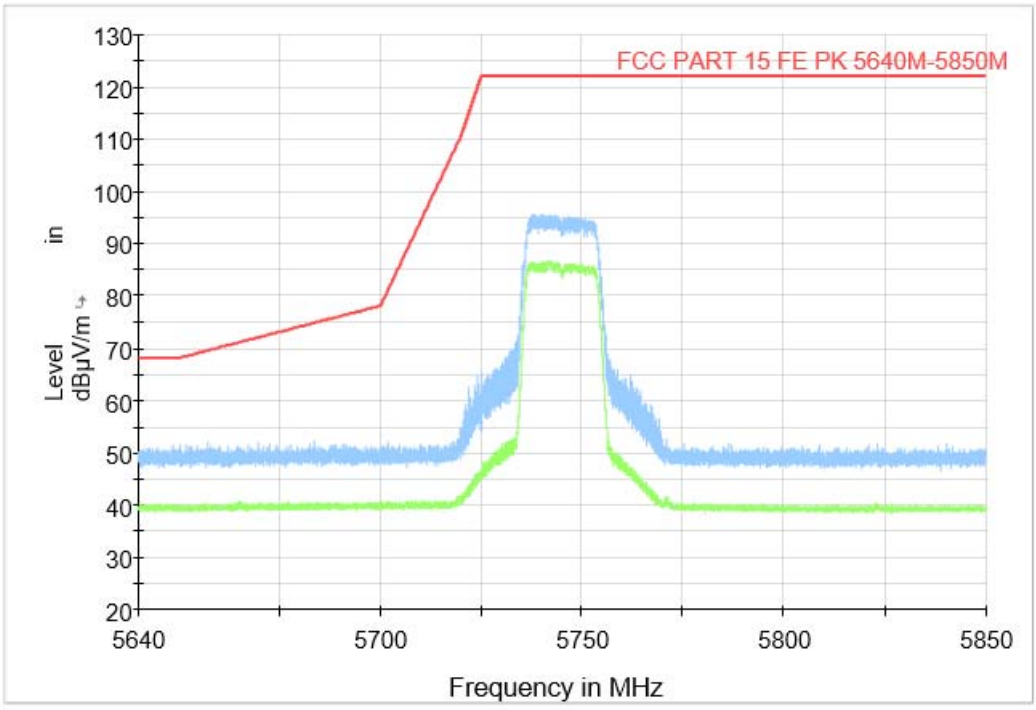

Fig. 47 Band Edges (802.11n-HT20, CH149 5745MHz)

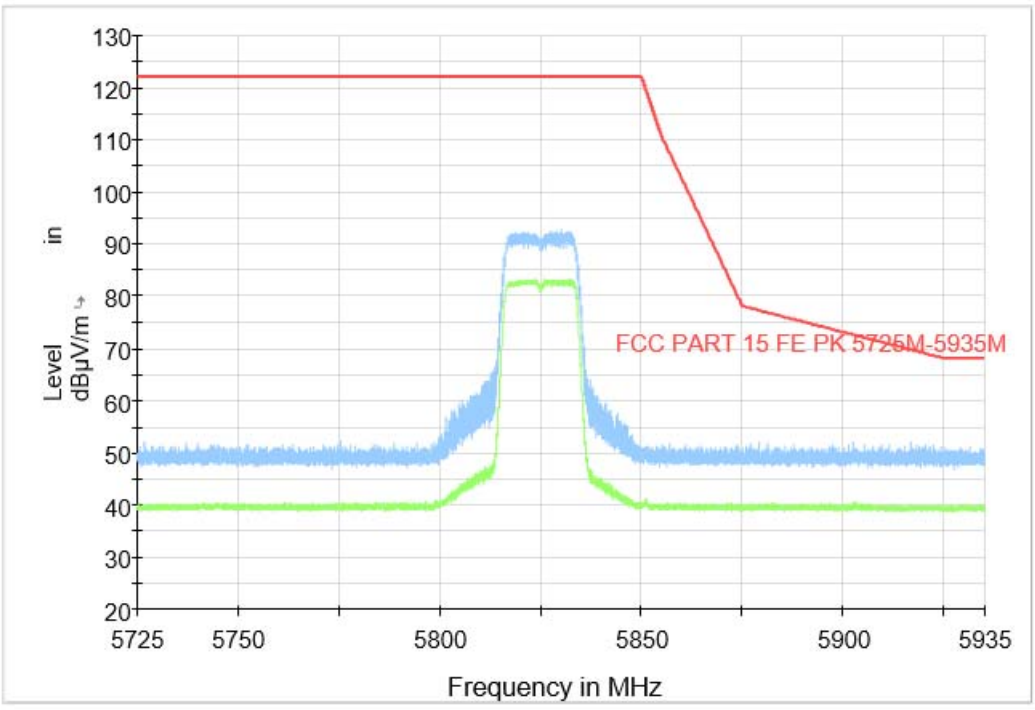

Fig. 48 Band Edges (802.11n-HT20, CH165 5825MHz)

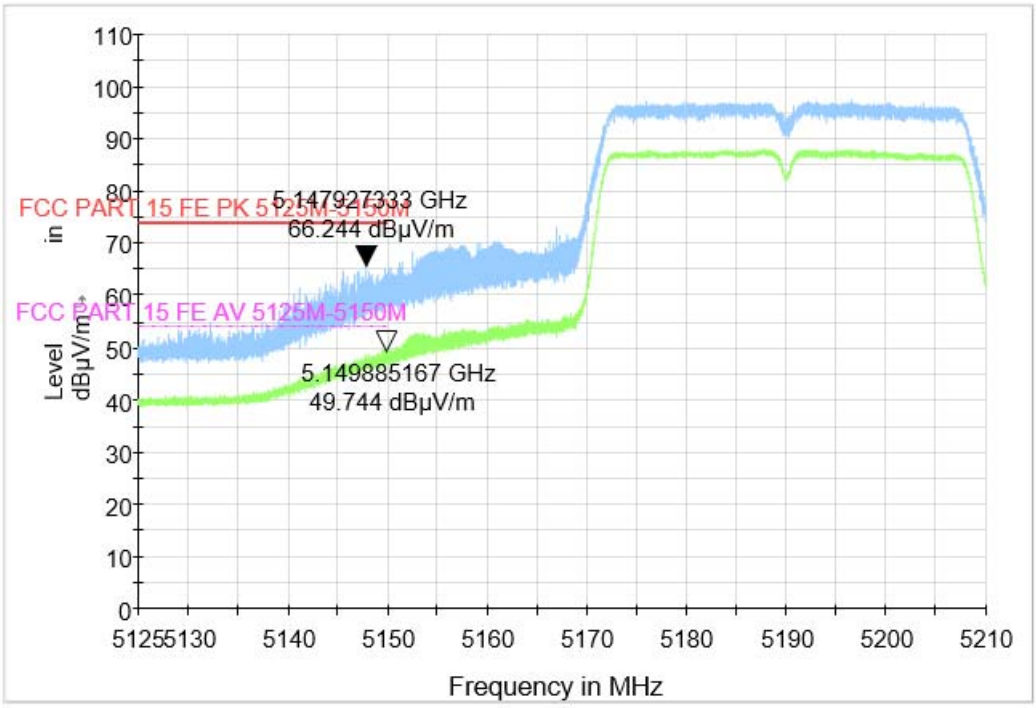

Fig. 49 Band Edges (802.11n-HT40, CH38 5190MHz)

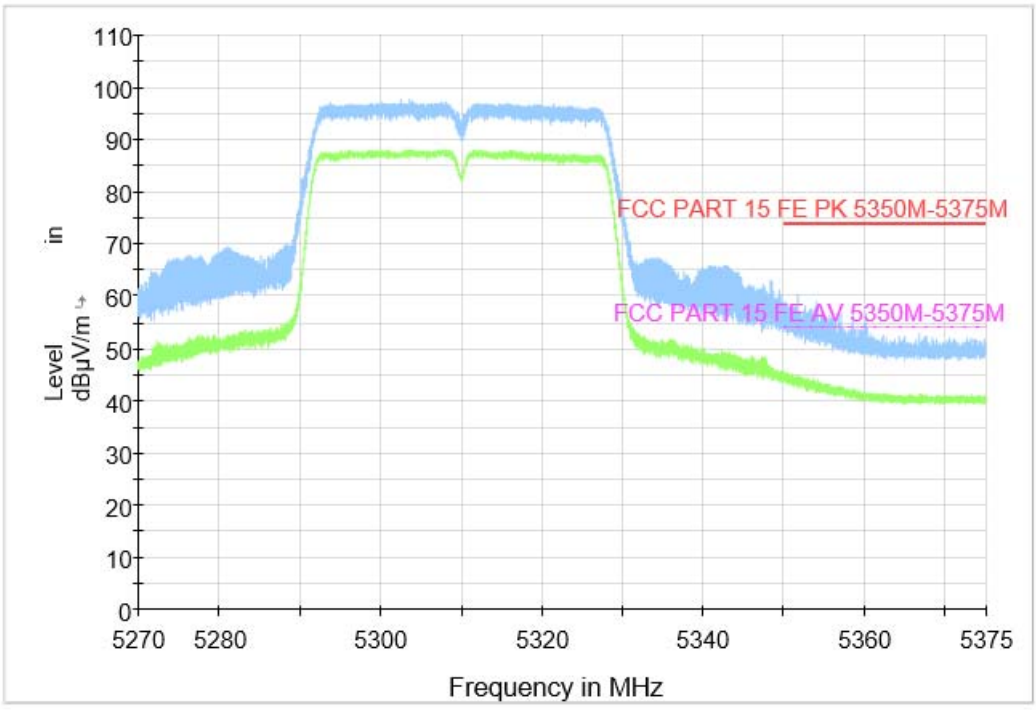

Fig. 50 Band Edges (802.11n-HT40, CH62 5310MHz)

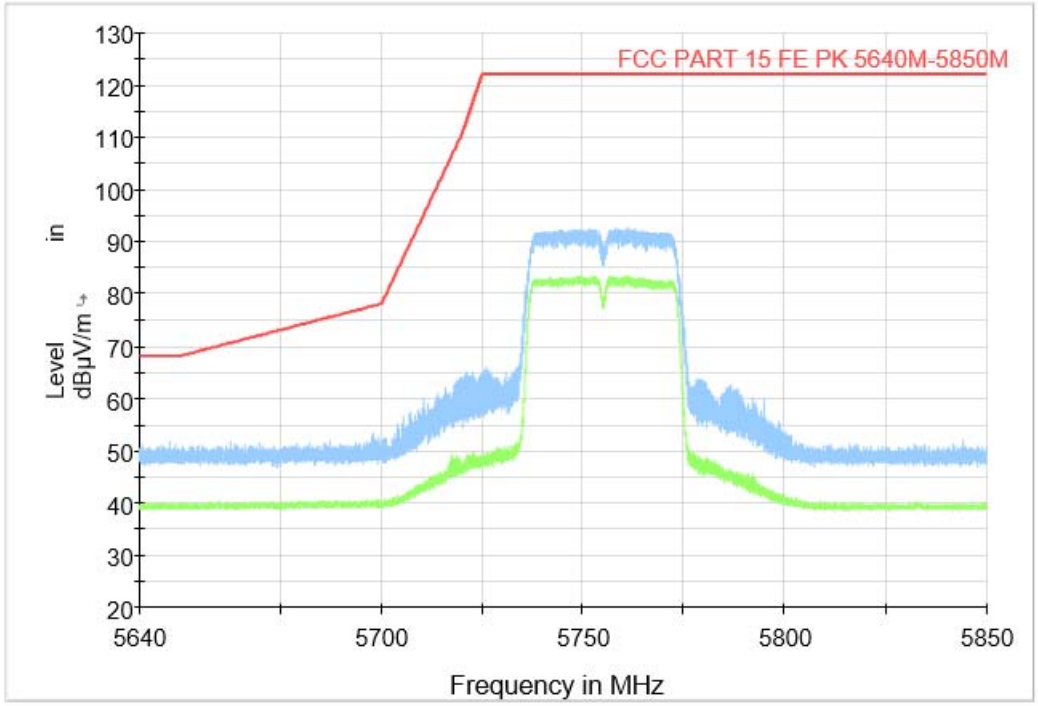

Fig. 51 Band Edges (802.11n-HT40, CH151 5755MHz)

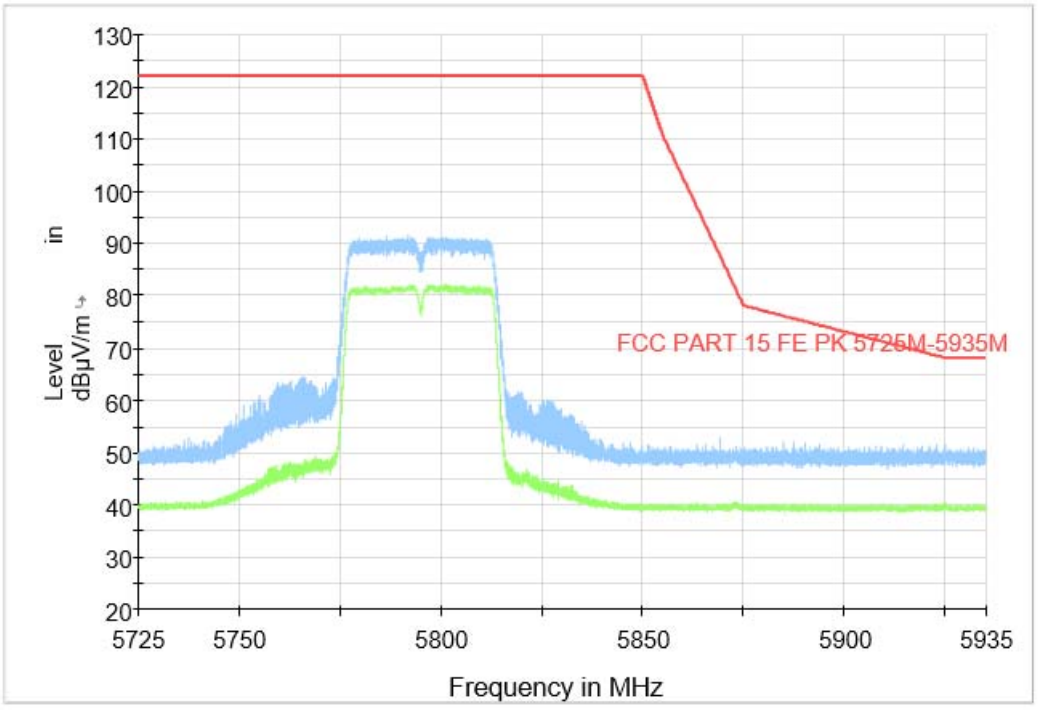

Fig. 52 Band Edges (802.11n-HT40, CH159 5795MHz)

A.8. Transmitter Spurious Emission

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5150MHz~5250MHz; 5250MHz~5350MHz; 5470MHz~5725MHz	< -27

Standard	Frequency (MHz)	Limit (dBuV/m)	
FCC 47 CFR Part 15.209	5725MHz~5850MHz	Peak	74
		Average	54

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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (dBμV/m)	Measurement distance (m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: For frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

Measurement Result:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	5180MHz(Ch36)	3 GHz ~7 GHz	Fig.53	P
		7 GHz ~18 GHz	Fig.54	P
	5200MHz(Ch40)	3 GHz ~7 GHz	Fig.55	P
		7 GHz ~18 GHz	Fig.56	P
	5240MHz(Ch48)	3 GHz ~7 GHz	Fig.57	P
		7 GHz ~18 GHz	Fig.58	P
	5260MHz(Ch52)	3 GHz ~7 GHz	Fig.59	P
		7 GHz ~18 GHz	Fig.60	P
	5280MHz(Ch56)	3 GHz ~7 GHz	Fig.61	P
		7 GHz ~18 GHz	Fig.62	P
	5320MHz(Ch64)	3 GHz ~7 GHz	Fig.63	P
		7 GHz ~18 GHz	Fig.64	P
	5745MHz(Ch149)	3 GHz ~7 GHz	Fig.65	P
		7 GHz ~18 GHz	Fig.66	P
	5785MHz(Ch157)	3 GHz ~7 GHz	Fig.67	P
		7 GHz ~18 GHz	Fig.68	P
	5825MHz(Ch165)	3 GHz ~7 GHz	Fig.69	P
		7 GHz ~18 GHz	Fig.70	P
802.11n-HT20	5180MHz(Ch36)	3 GHz ~7 GHz	Fig.71	P
		7 GHz ~18 GHz	Fig.72	P
	5200MHz(Ch40)	3 GHz ~7 GHz	Fig.73	P
		7 GHz ~18 GHz	Fig.74	P
	5240MHz(Ch48)	3 GHz ~7 GHz	Fig.75	P
		7 GHz ~18 GHz	Fig.76	P
	5260MHz(Ch52)	3 GHz ~7 GHz	Fig.77	P
		7 GHz ~18 GHz	Fig.78	P
	5280MHz(Ch56)	3 GHz ~7 GHz	Fig.79	P
		7 GHz ~18 GHz	Fig.80	P
	5320MHz(Ch64)	3 GHz ~7 GHz	Fig.81	P
		7 GHz ~18 GHz	Fig.82	P
	5745MHz(Ch149)	3 GHz ~7 GHz	Fig.83	P
		7 GHz ~18 GHz	Fig.84	P
	5785MHz(Ch157)	3 GHz ~7 GHz	Fig.85	P
		7 GHz ~18 GHz	Fig.86	P
	5825MHz(Ch165)	3 GHz ~7 GHz	Fig.87	P
		7 GHz ~18 GHz	Fig.88	P

802.11n-HT40	5190MHz(Ch38)	3 GHz ~7 GHz	Fig.89	**P**
		7 GHz ~18 GHz	Fig.90	**P**
	5230MHz(Ch46)	3 GHz ~7 GHz	Fig.91	**P**
		7 GHz ~18 GHz	Fig.92	**P**
	5270MHz(Ch54)	3 GHz ~7 GHz	Fig.93	**P**
		7 GHz ~18 GHz	Fig.94	**P**
	5310MHz(Ch62)	3 GHz ~7 GHz	Fig.95	**P**
		7 GHz ~18 GHz	Fig.96	**P**
	5755MHz(Ch151)	3 GHz ~7 GHz	Fig.97	**P**
		7 GHz ~18 GHz	Fig.98	**P**
	5795MHz(Ch159)	3 GHz ~7 GHz	Fig.99	**P**
		7 GHz ~18 GHz	Fig.100	**P**
All channels		30 MHz ~1 GHz	Fig.101	**P**
		1 GHz ~3 GHz	Fig.102	**P**
		18 GHz ~26.5 GHz	Fig.103	**P**
		26.5GHz~40GHz	Fig.104	**P**

Worst Case Result

802.11a CH48

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
12947.333333	46.72	68.20	21.48	V	8.6
13671.866667	45.59	68.20	22.61	V	8.5
14195.466667	47.73	68.20	20.47	V	10.9
15087.200000	48.11	68.20	20.09	H	11.2
16588.333333	49.49	68.20	18.71	H	14.8
17556.700000	49.38	68.20	18.82	V	15.1

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
8383.800000	41.02	54.00	12.98	V	3.0
11587.366667	34.24	54.00	19.76	V	6.6
12393.300000	33.93	54.00	20.07	V	7.3
15719.700000	37.70	54.00	16.30	V	12.4
16083.800000	37.41	54.00	16.59	V	13.9
17854.800000	38.21	54.00	15.79	H	16.1

802.11a CH165

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
12995.366667	47.60	68.20	20.61	H	8.3
13536.933333	46.62	68.20	21.58	H	8.7
14202.066667	48.41	68.20	19.79	H	10.9
15152.466667	47.10	68.20	21.10	H	11.0
16609.966667	50.31	68.20	17.89	V	14.8
17327.900000	49.26	68.20	18.94	H	14.8

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
9319.900000	39.00	54.00	15.00	H	3.5
11647.500000	37.65	54.00	16.35	H	6.9
12393.300000	34.19	54.00	19.81	H	7.3
15679.366667	36.10	54.00	17.90	V	12.2
16076.833333	37.36	54.00	16.64	V	13.9
17889.633333	39.28	54.00	14.72	V	16.2

802.11n-HT20 CH40

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12996.100000	47.86	68.20	20.34	V	8.2
13600.733333	45.26	68.20	22.94	H	8.5
14238.366667	47.57	68.20	20.63	V	11.0
15152.466667	46.47	68.20	21.73	H	11.0
16726.933333	49.42	68.20	18.78	H	14.9
17360.533333	49.26	68.20	18.94	V	14.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8320.000000	40.23	54.00	13.77	V	3.2
11227.666667	33.42	54.00	20.58	V	5.4
12471.766667	34.36	54.00	19.64	V	7.8
15596.866667	35.89	54.00	18.11	V	11.7
15934.566667	37.35	54.00	16.65	V	13.4
17817.400000	38.92	54.00	15.08	V	16.2

802.11n-HT20 CH165

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13058.066667	46.36	68.20	21.84	V	8.3
13696.800000	46.04	68.20	22.16	V	8.6
14116.633333	48.26	68.20	19.94	V	10.4
15064.100000	47.22	68.20	20.98	V	11.1
16697.233333	50.54	68.20	17.66	H	14.9
17459.166667	50.03	68.20	18.17	H	14.8

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
9319.900000	38.68	54.00	15.32	H	3.5
11647.500000	36.87	54.00	17.13	H	6.9
12485.700000	34.83	54.00	19.17	V	8.0
15554.333333	35.84	54.00	18.16	V	11.8
16118.633333	38.19	54.00	15.81	H	14.1
17888.166667	39.27	54.00	14.73	H	16.2

802.11n HT40 CH38

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12976.30	46.29	68.20	21.91	V	8.4
14017.27	46.33	68.20	21.87	V	9.5
15088.67	47.52	68.20	20.68	H	11.2
17440.10	50.34	68.20	17.86	V	14.7
16755.90	50.37	68.20	17.83	H	14.8
10379.57	60.04	68.20	8.16	H	5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10927.37	34.34	54.00	19.66	H	5.2
11582.97	36.28	54.00	17.72	H	6.6
12107.67	36.31	54.00	17.69	V	7.3
12484.60	36.72	54.00	17.28	H	8
15916.97	39.06	54.00	14.94	V	13.3
17902.10	40.90	54.00	13.10	V	16.3

802.11n HT40 CH151

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14964.73	46.58	68.20	21.62	H	11
12953.93	46.67	68.20	21.53	V	8.6
11502.30	47.30	74.00	26.70	H	6.1
14166.87	47.73	68.20	20.47	V	10.7
17318.00	49.52	68.20	18.68	H	14.9
16707.87	50.85	68.20	17.35	V	14.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
11175.97	34.99	54.00	19.01	H	5.2
11510.00	38.92	54.00	15.08	H	6.2
12092.27	36.09	54.00	17.92	V	7.4
12444.63	36.56	54.00	17.44	H	7.5
15877.73	38.63	54.00	15.37	H	13
17978.73	40.66	54.00	13.34	V	15.9

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. The measurement results are obtained as described below:
Result = P_{Mea} + A_{Rpl} = P_{Mea} + Cable Loss + Antenna Factor

Conclusion: PASS
Test graphs as below:

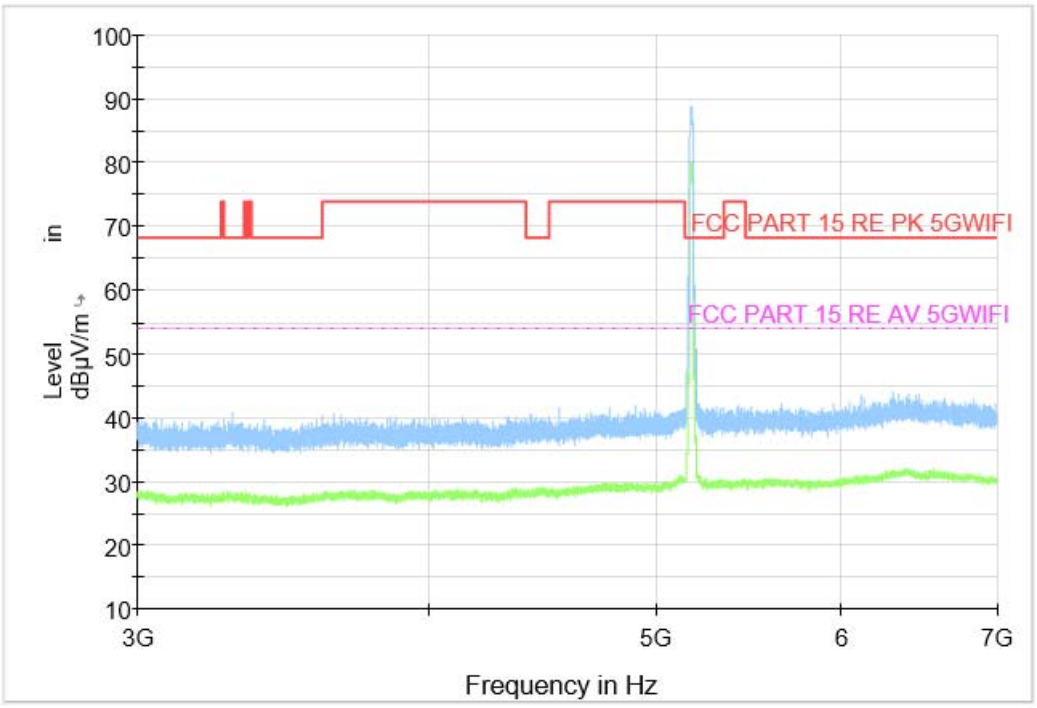

Fig. 53 Transmitter Spurious Emission (802.11a, CH36 5180MHz, 3 GHz-7 GHz)

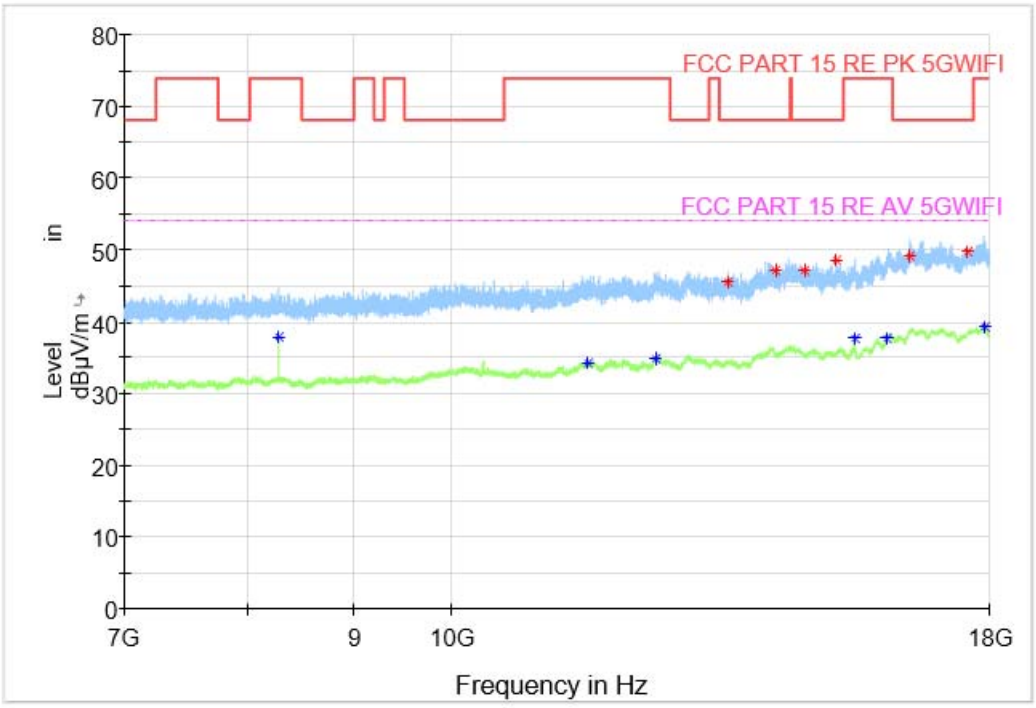

Fig. 54 Transmitter Spurious Emission (802.11a, CH36 5180MHz, 7 GHz-18 GHz)

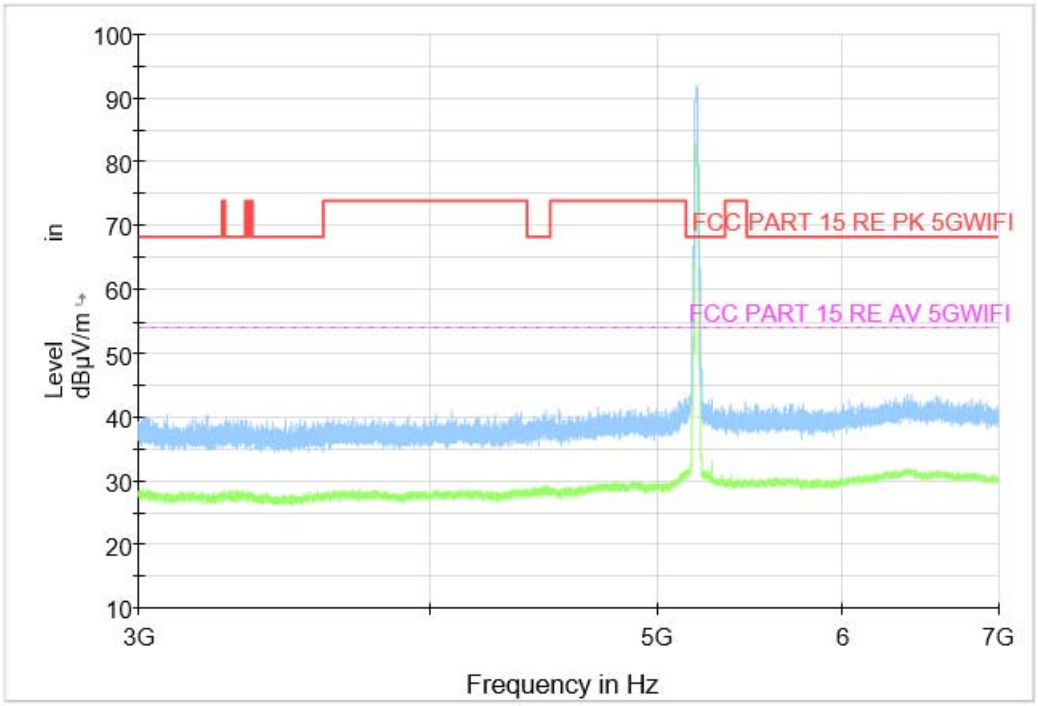

Fig. 55 Transmitter Spurious Emission (802.11a, CH40 5200MHz, 3 GHz-7 GHz)

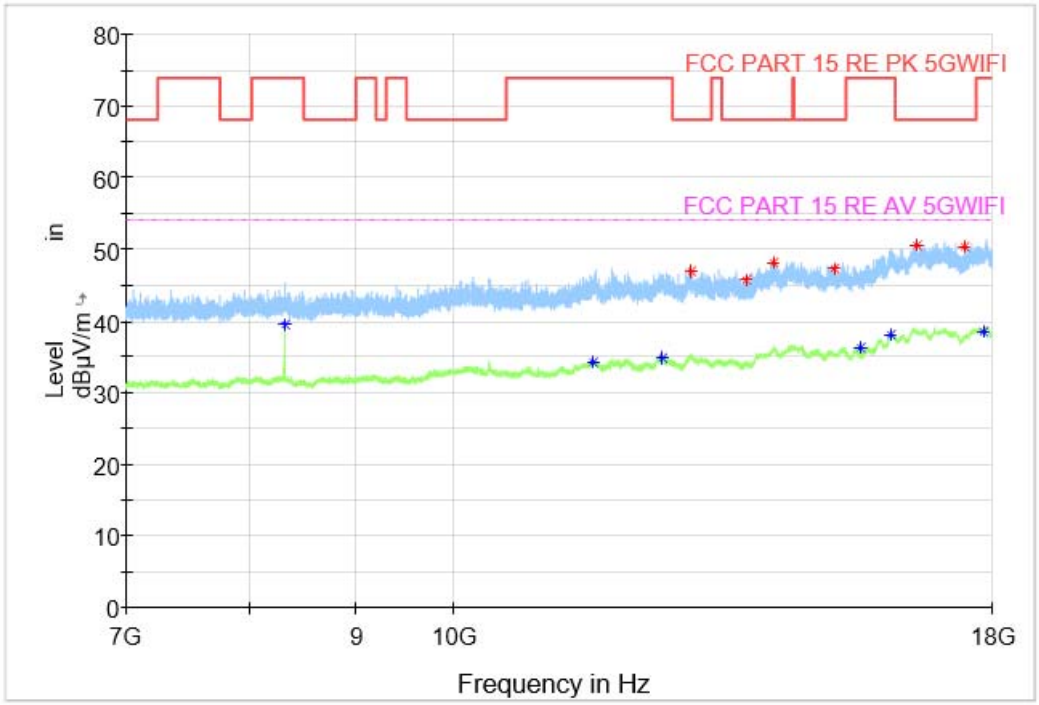

Fig. 56 Transmitter Spurious Emission (802.11a, CH40 5200MHz, 7 GHz-18 GHz)

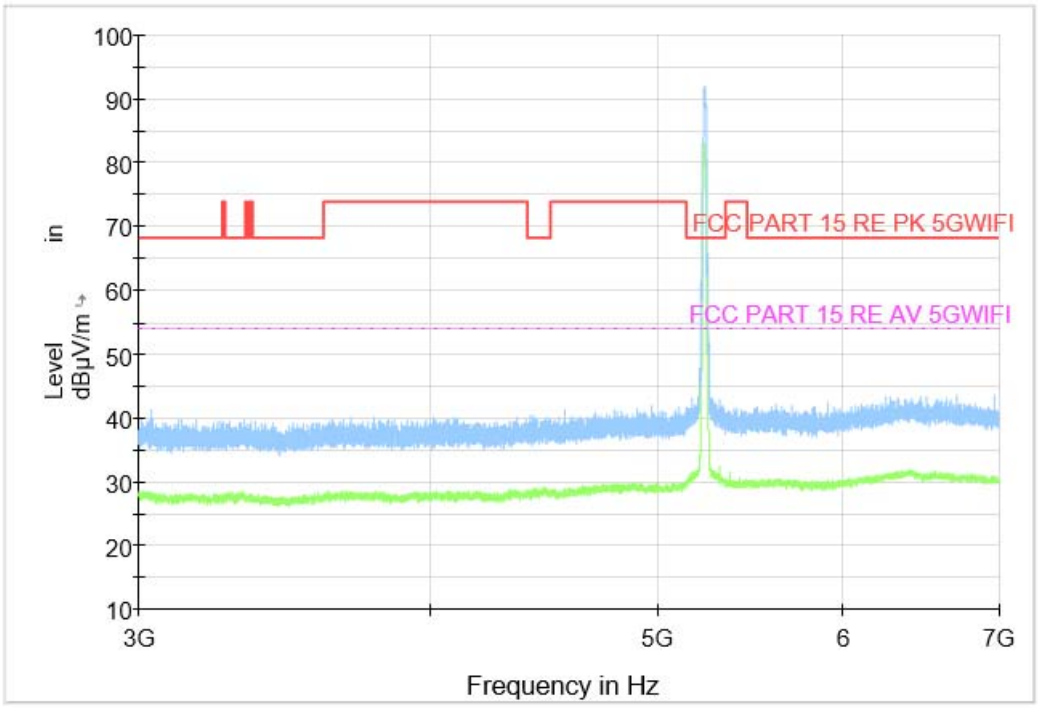

Fig. 57 Transmitter Spurious Emission (802.11a, CH48 5240MHz, 3 GHz-7 GHz)

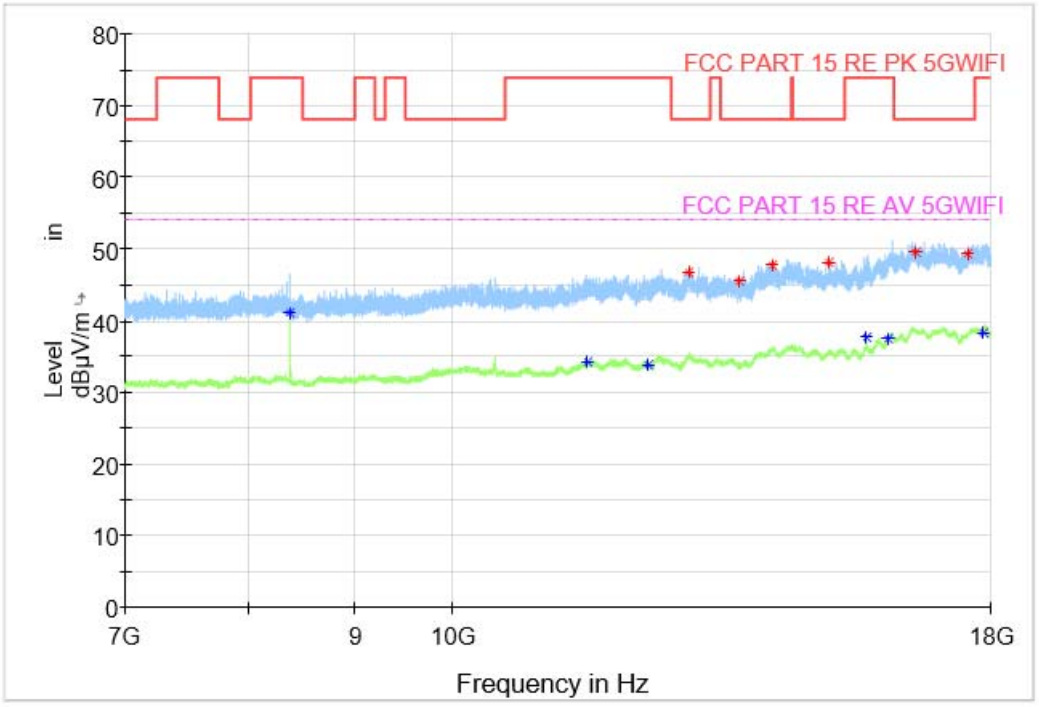

Fig. 58 Transmitter Spurious Emission (802.11a, CH48 5240MHz, 7 GHz-18 GHz)

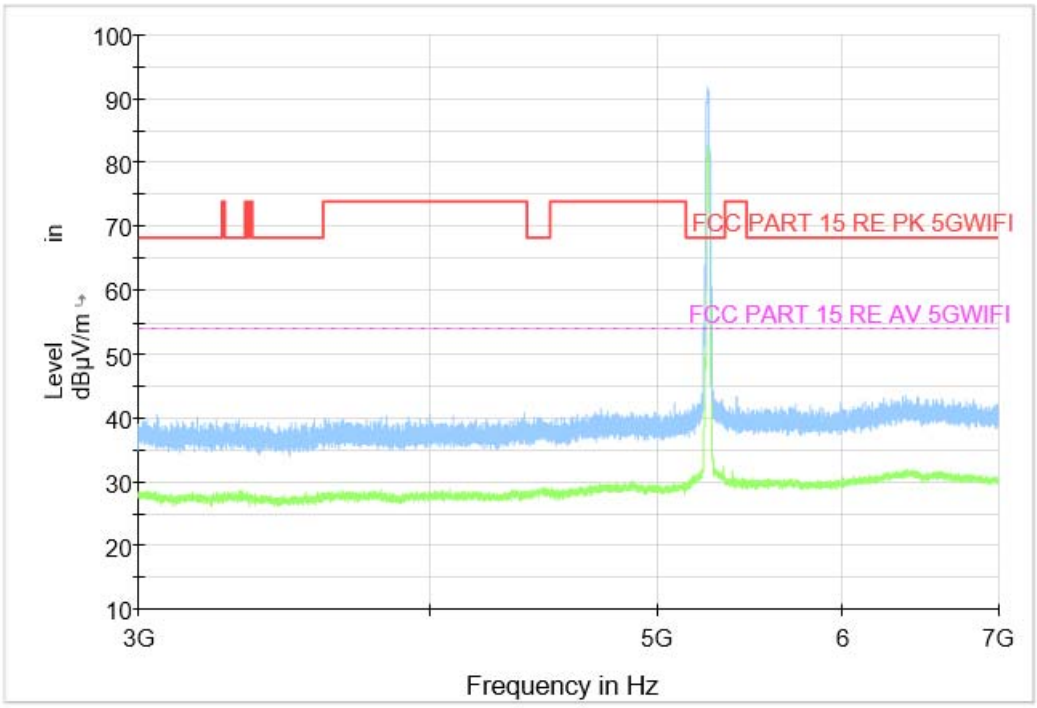

Fig. 59 Transmitter Spurious Emission (802.11a, CH52 5260MHz, 3GHz-7 GHz)

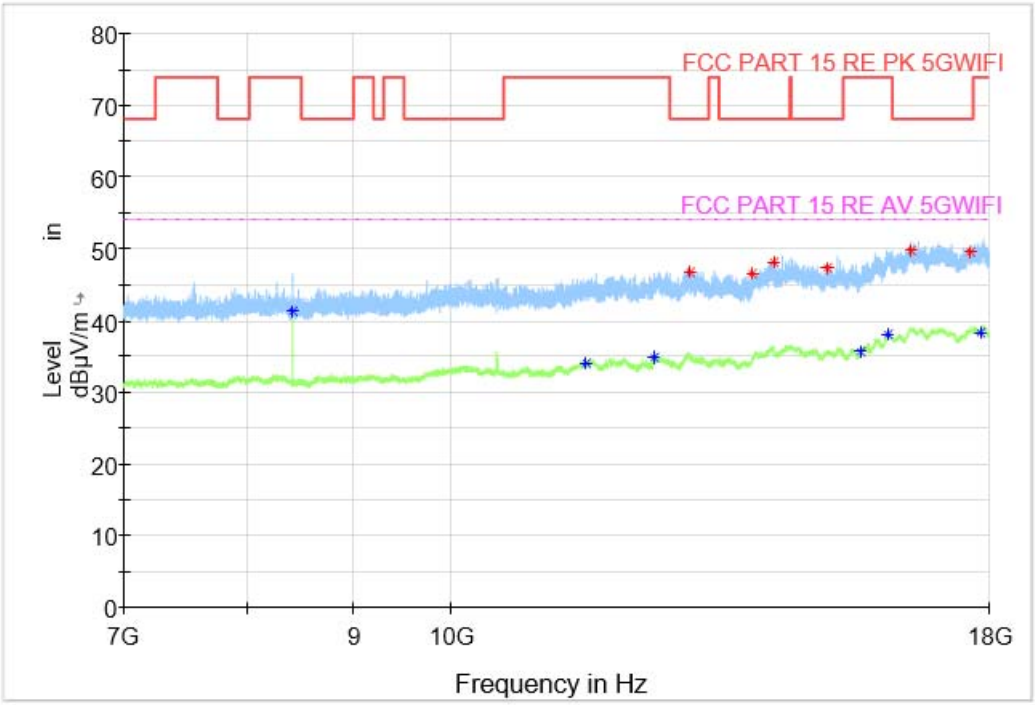

Fig. 60 Transmitter Spurious Emission (802.11a, CH52 5260MHz, 7GHz-18 GHz)

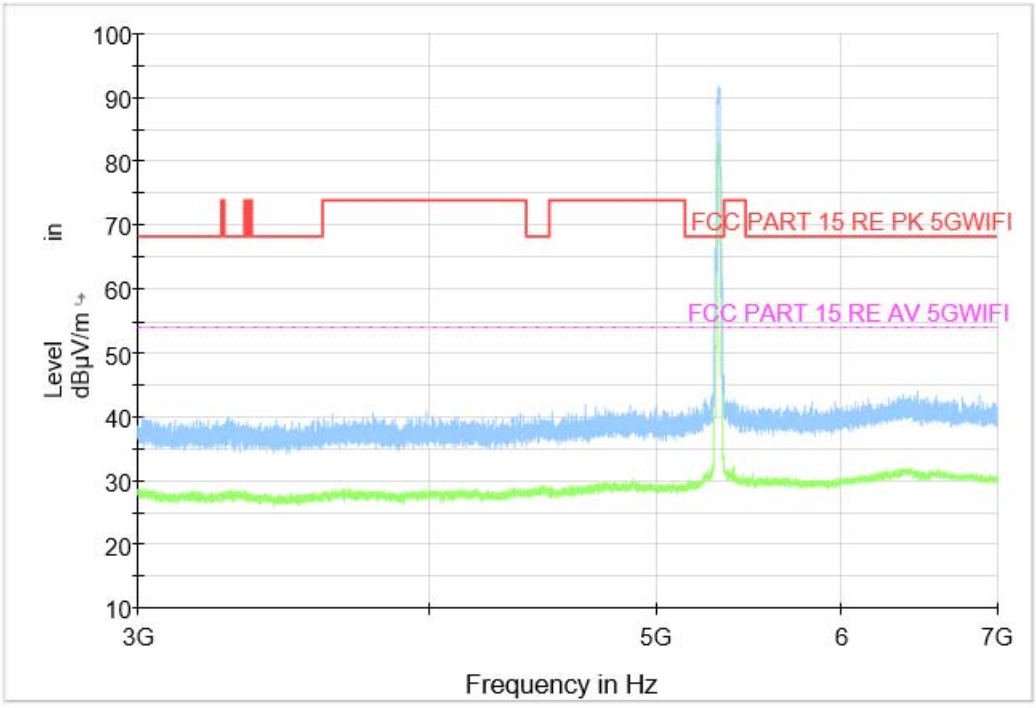

Fig. 61 Transmitter Spurious Emission (802.11a, CH56 5280MHz, 3 GHz-7 GHz)

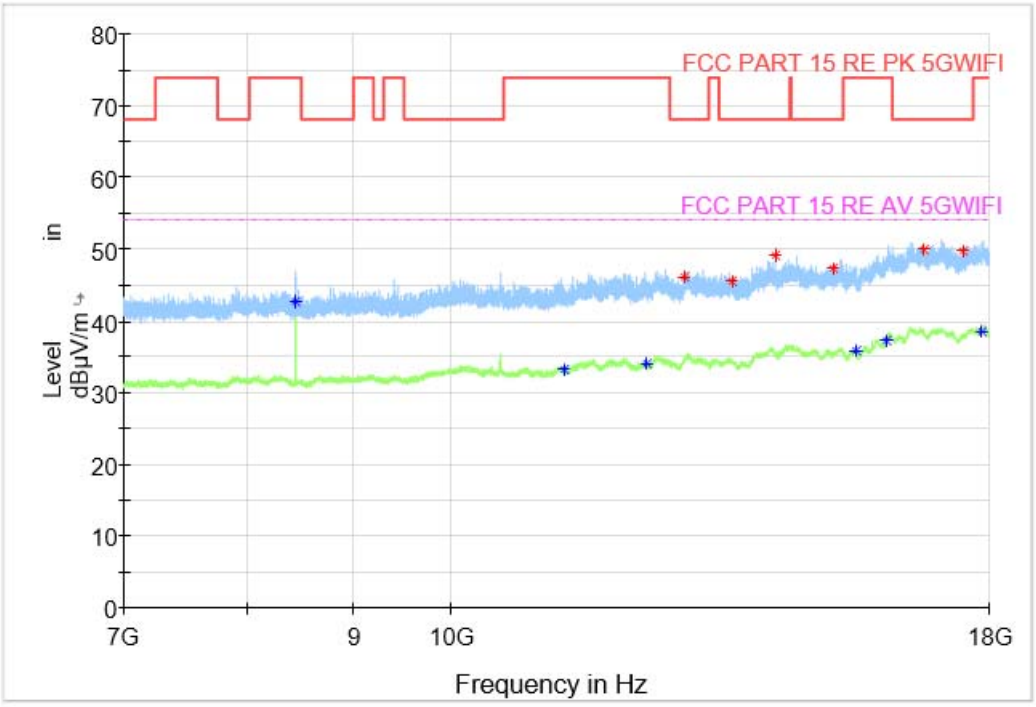

Fig. 62 Transmitter Spurious Emission (802.11a, CH56 5280MHz, 7 GHz-18 GHz)

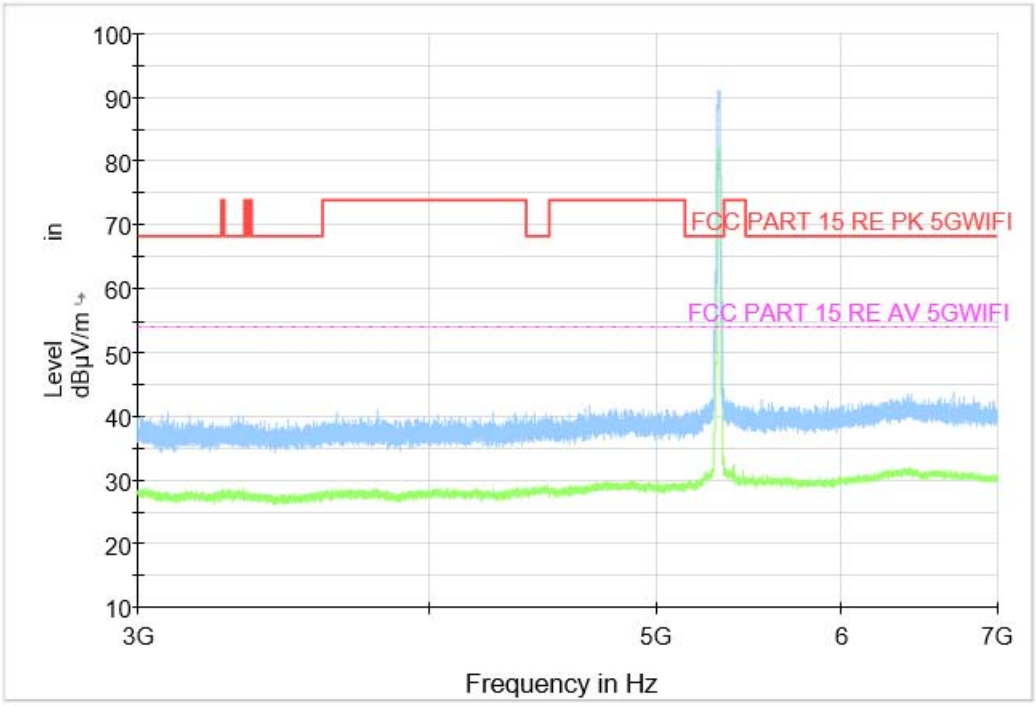

Fig. 63 Transmitter Spurious Emission (802.11a, CH64 5320MHz, 3 GHz-7 GHz)

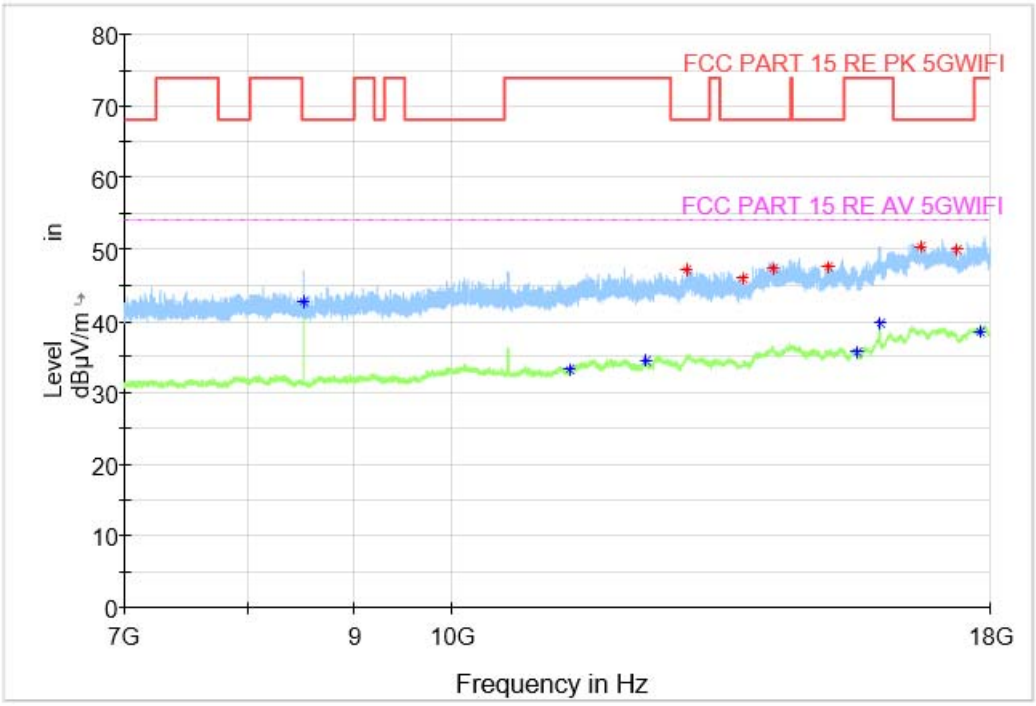

Fig. 64 Transmitter Spurious Emission (802.11a, CH64 5320MHz, 7 GHz-18 GHz)

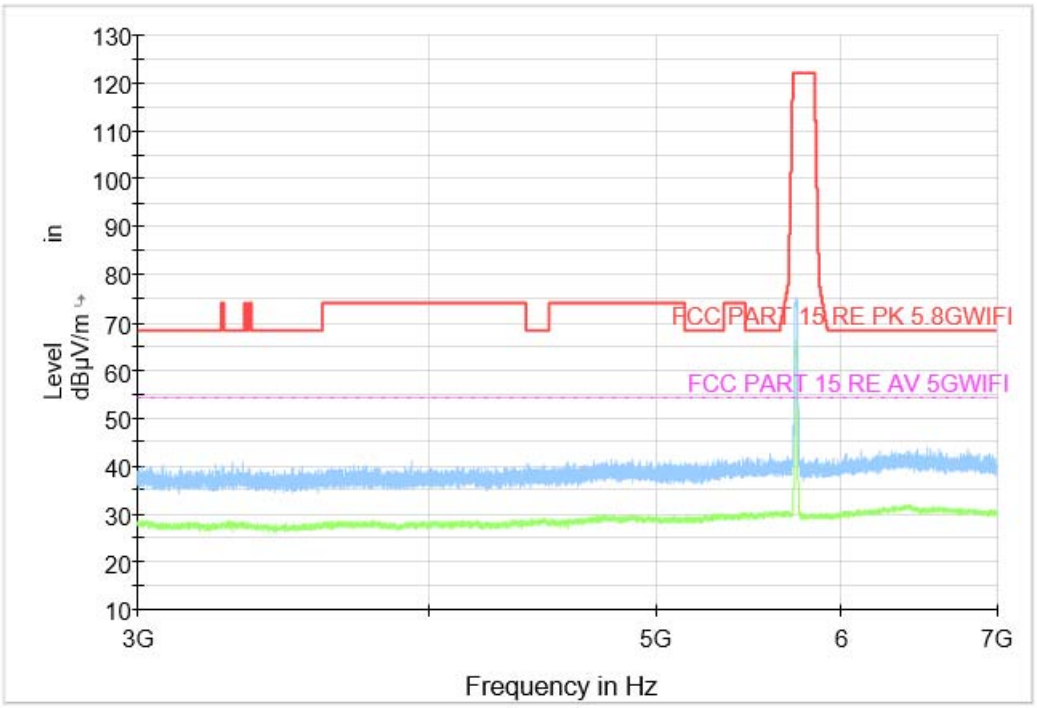

Fig. 65 Transmitter Spurious Emission (802. 11a, CH149 5745MHz, 3 GHz-7 GHz)

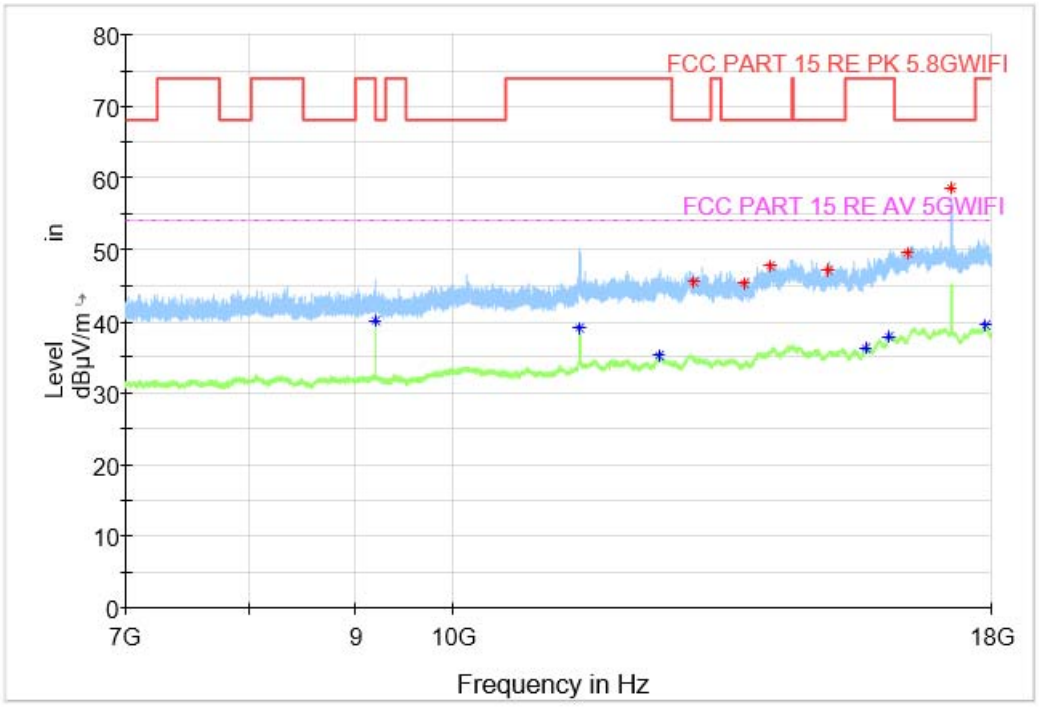

Fig. 66 Transmitter Spurious Emission (802. 11a, CH149 5745MHz, 7 GHz-18 GHz)

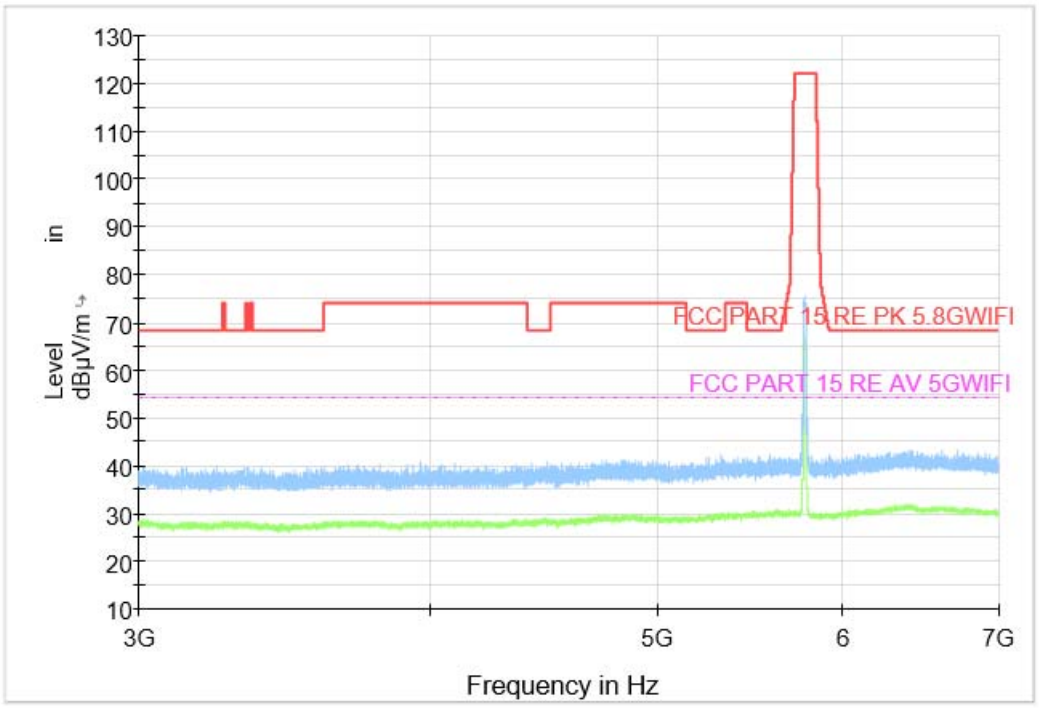

Fig. 67 Transmitter Spurious Emission (802. 11a, CH157 5785MHz, 3 GHz-7 GHz)

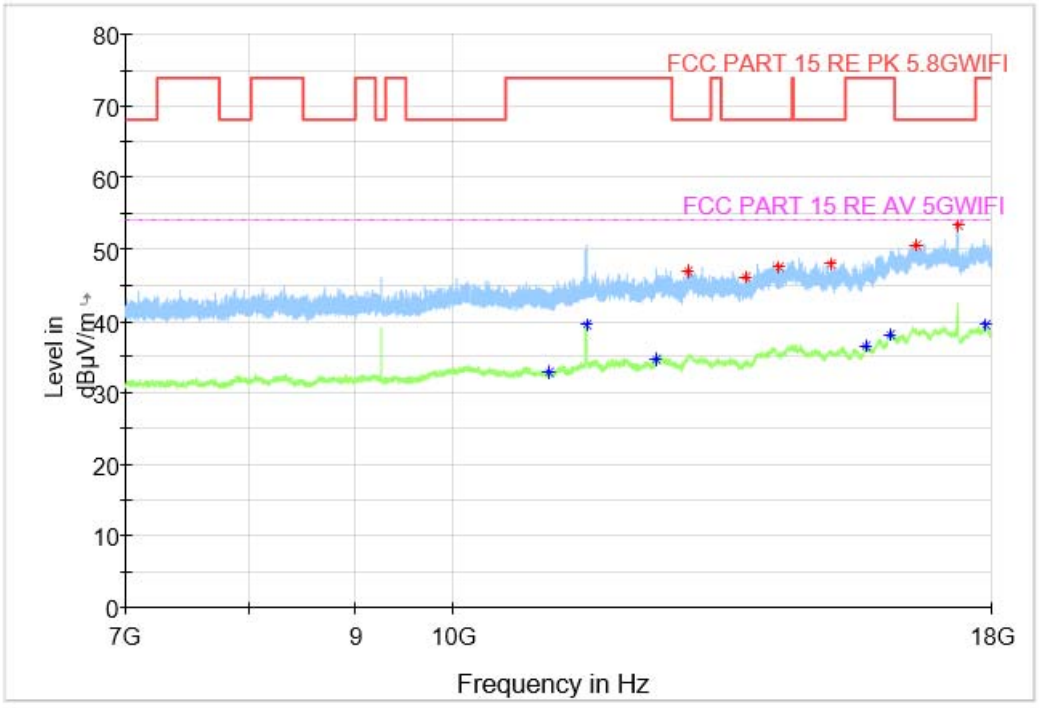

Fig. 68 Transmitter Spurious Emission (802. 11a, CH157 5785MHz, 7 GHz-18 GHz)

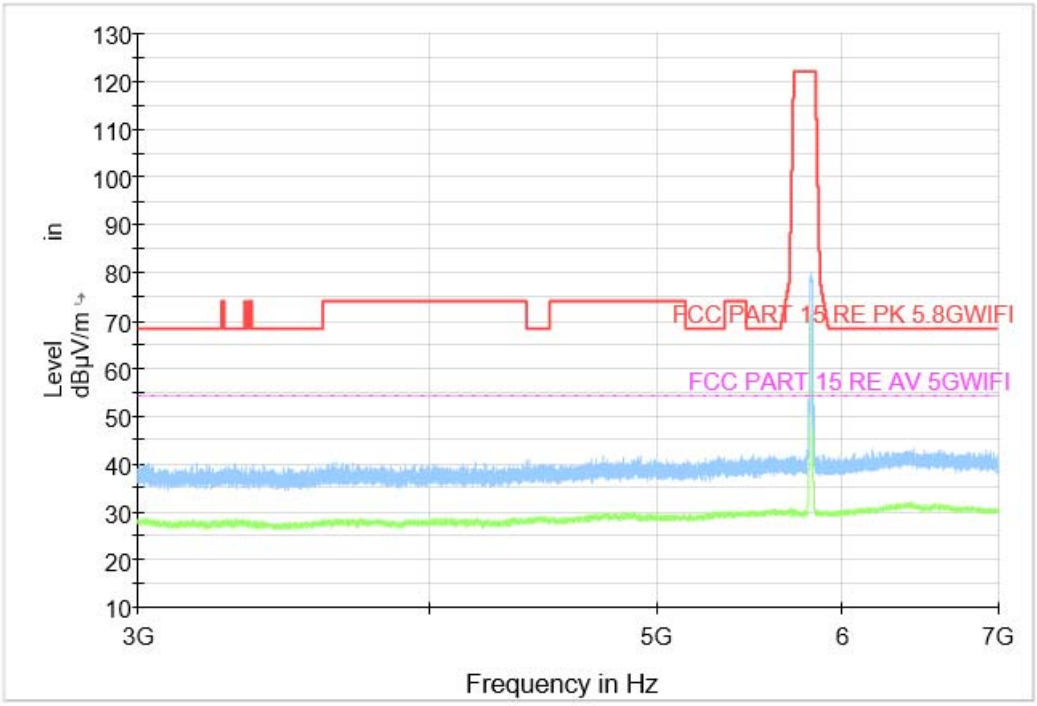

Fig. 69 Transmitter Spurious Emission (802. 11a, CH165 5825MHz, 3 GHz-7 GHz)

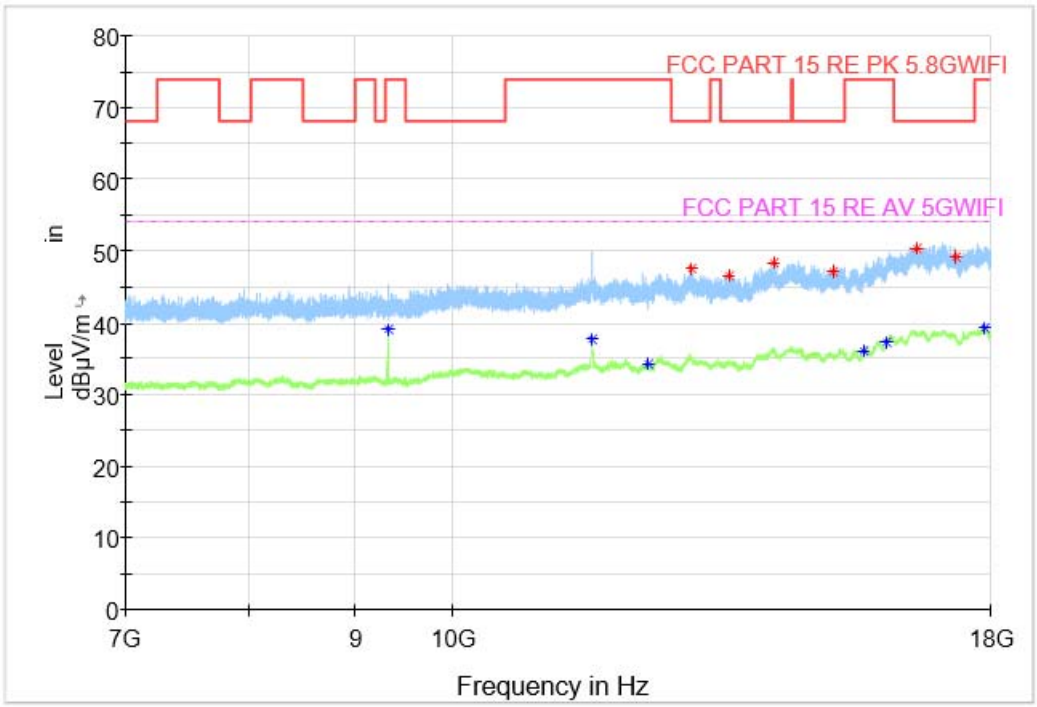

Fig. 70 Transmitter Spurious Emission (802. 11a, CH165 5825MHz, 7 GHz-18 GHz)

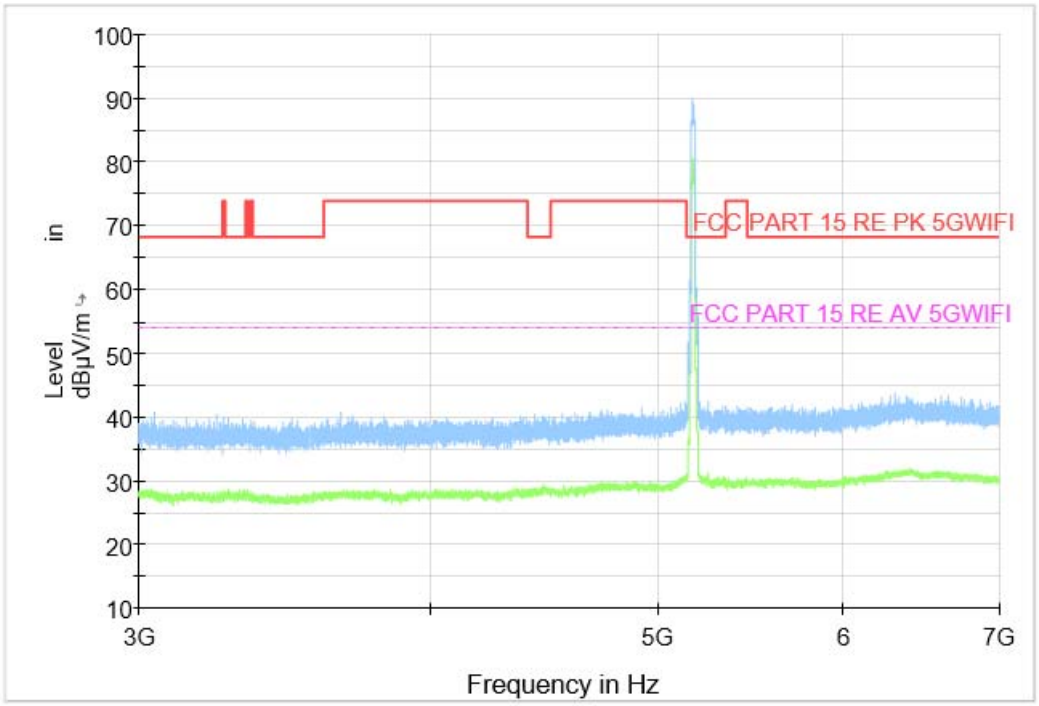

Fig. 71 Transmitter Spurious Emission (802.11n-HT20, CH36 5180MHz, 3 GHz-7 GHz)

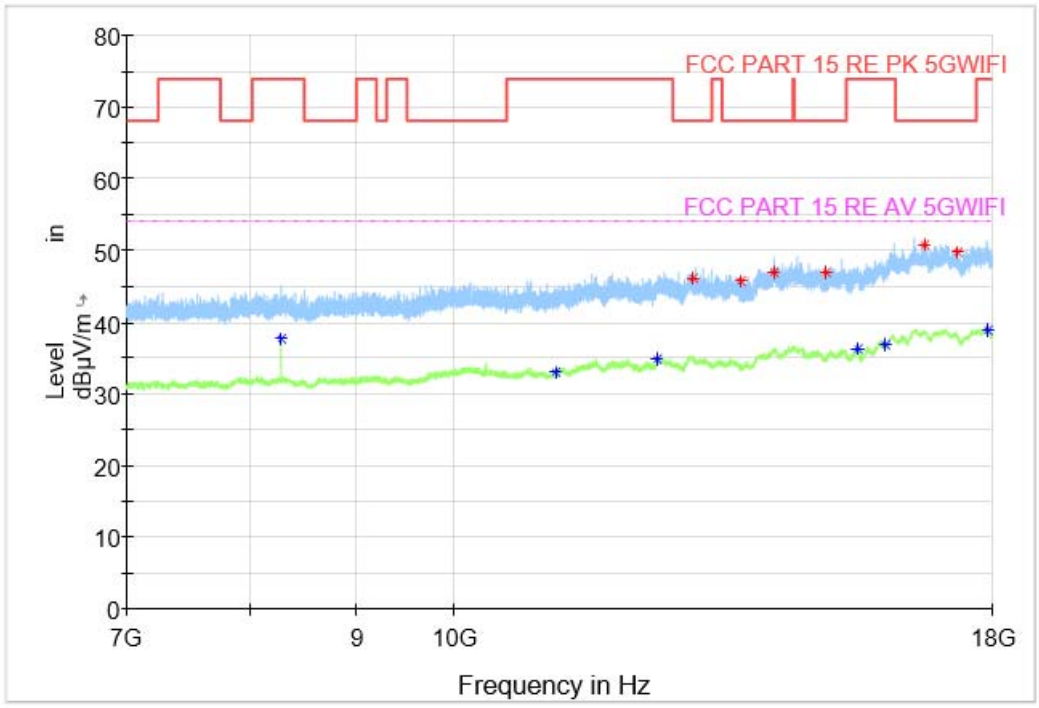

Fig. 72 Transmitter Spurious Emission (802.11n-HT20, CH36 5180MHz, 7 GHz-18 GHz)

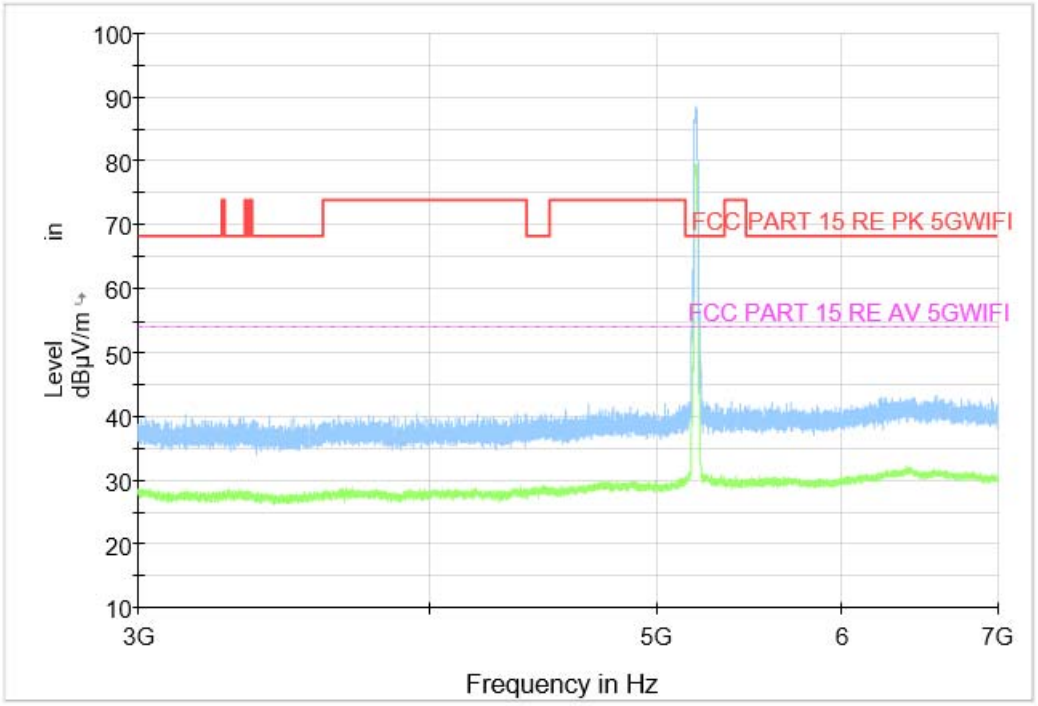

Fig. 73 Transmitter Spurious Emission (802.11n-HT20, CH40 5200MHz, 3 GHz-7 GHz)

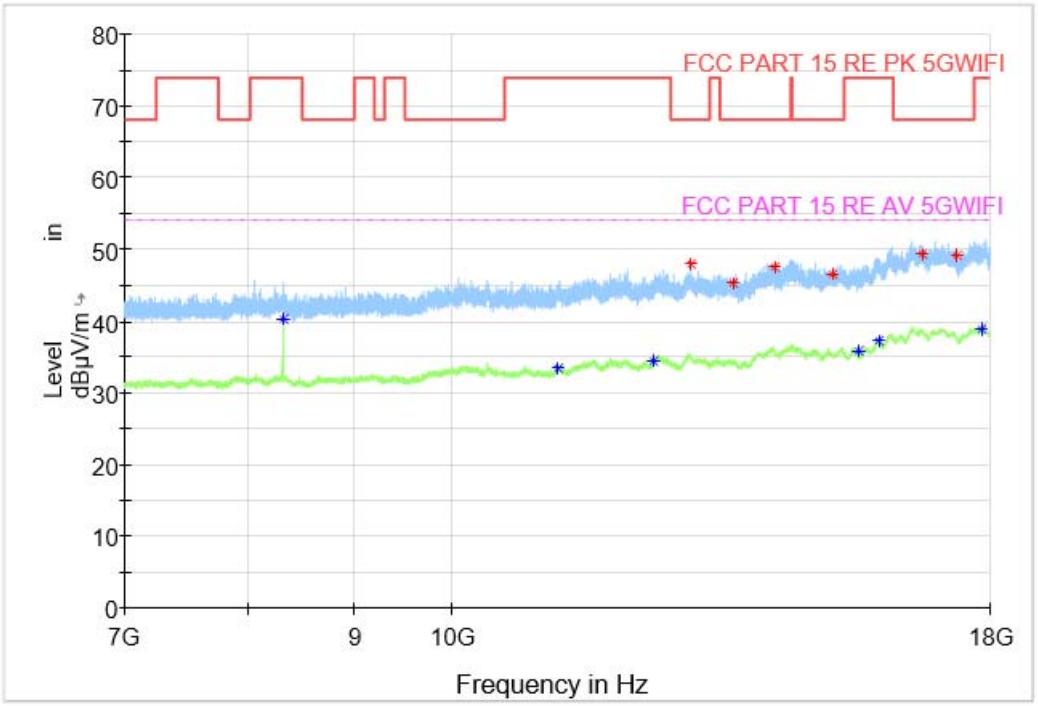

Fig. 74 Transmitter Spurious Emission (802.11n-HT20, CH40 5200MHz, 7 GHz-18 GHz)

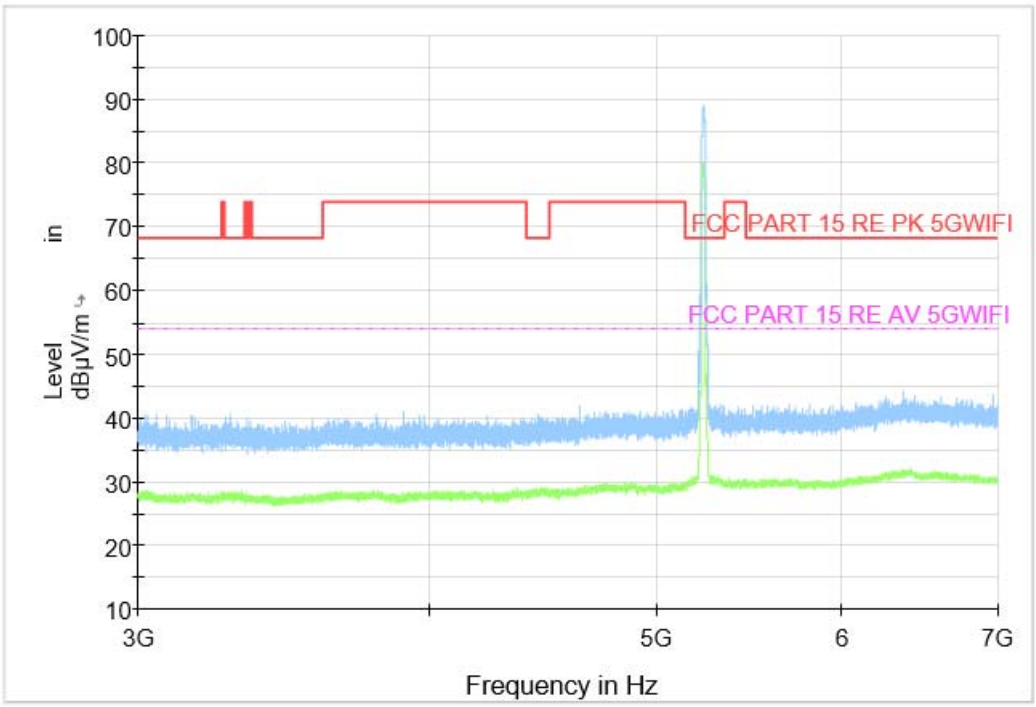

Fig. 75 Transmitter Spurious Emission (802.11n-HT20, CH48 5240MHz, 3 GHz-7 GHz)

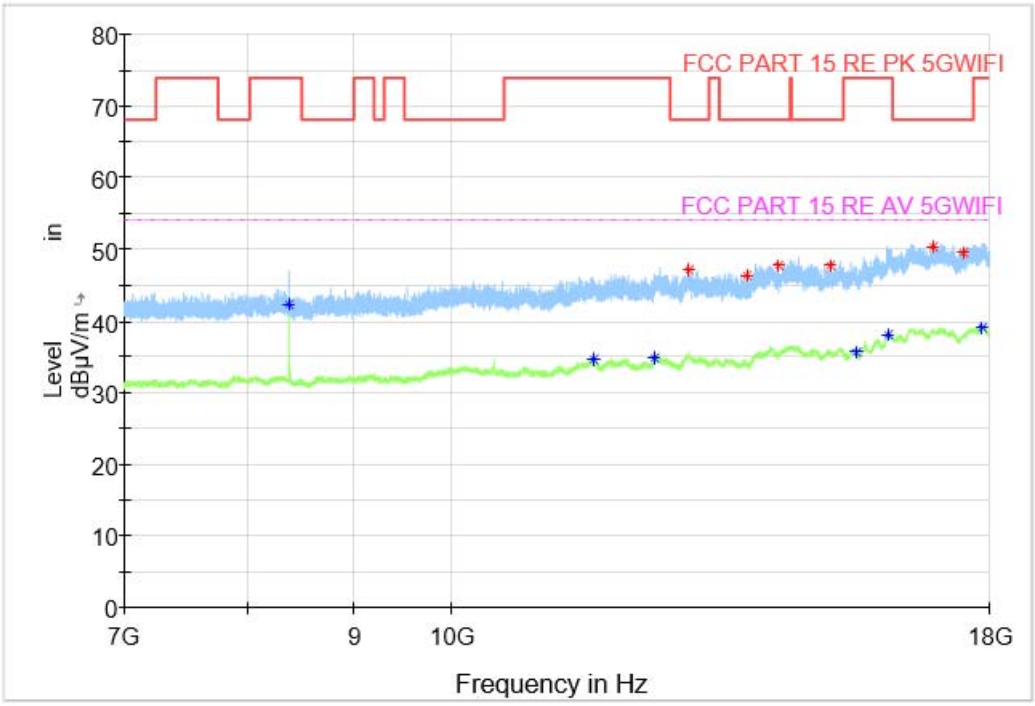

Fig. 76 Transmitter Spurious Emission (802.11n-HT20, CH48 5240MHz, 7 GHz-18 GHz)

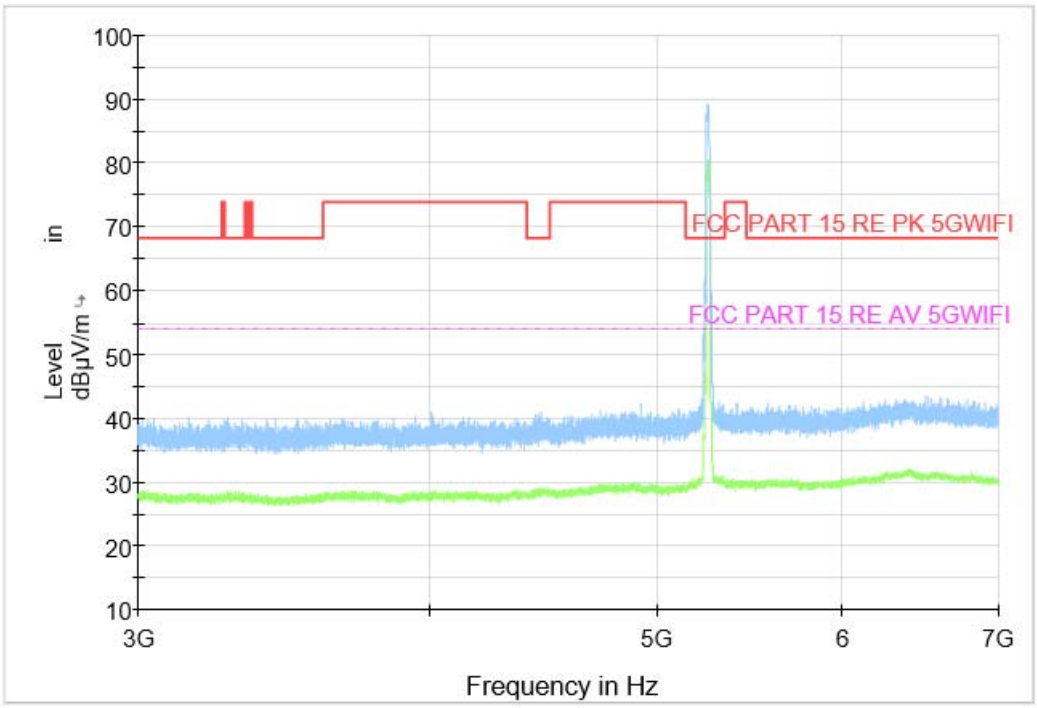

Fig. 77 Transmitter Spurious Emission (802.11n-HT20, CH52 5260MHz, 3GHz-7 GHz)

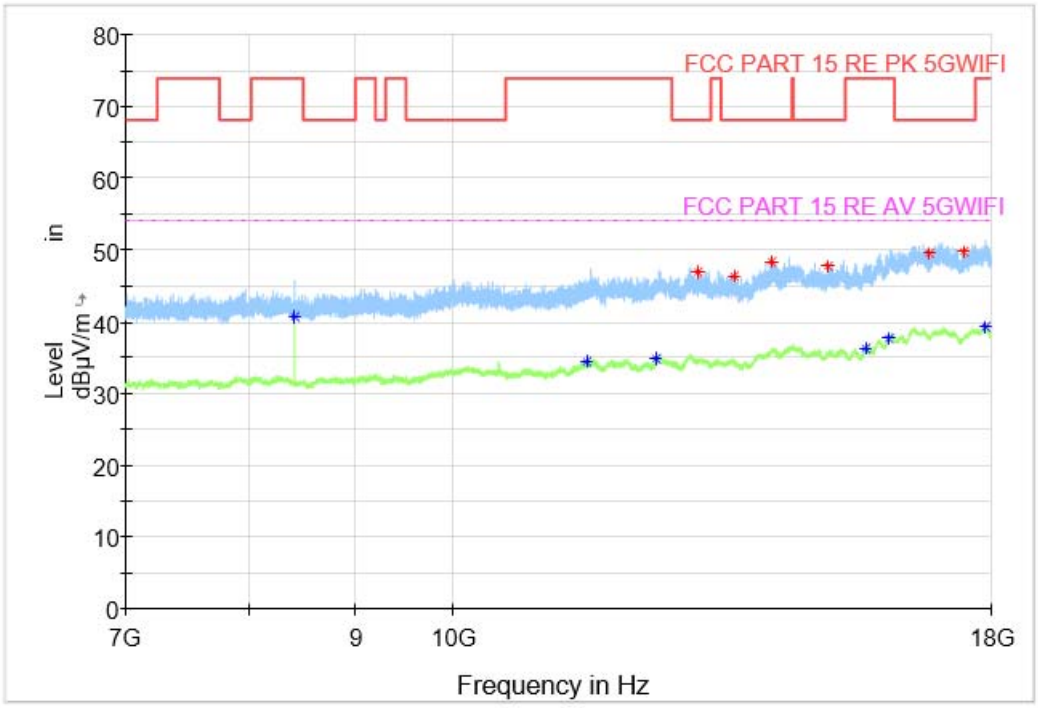

Fig. 78 Transmitter Spurious Emission (802.11n-HT20, CH52 5260MHz, 7GHz-18 GHz)

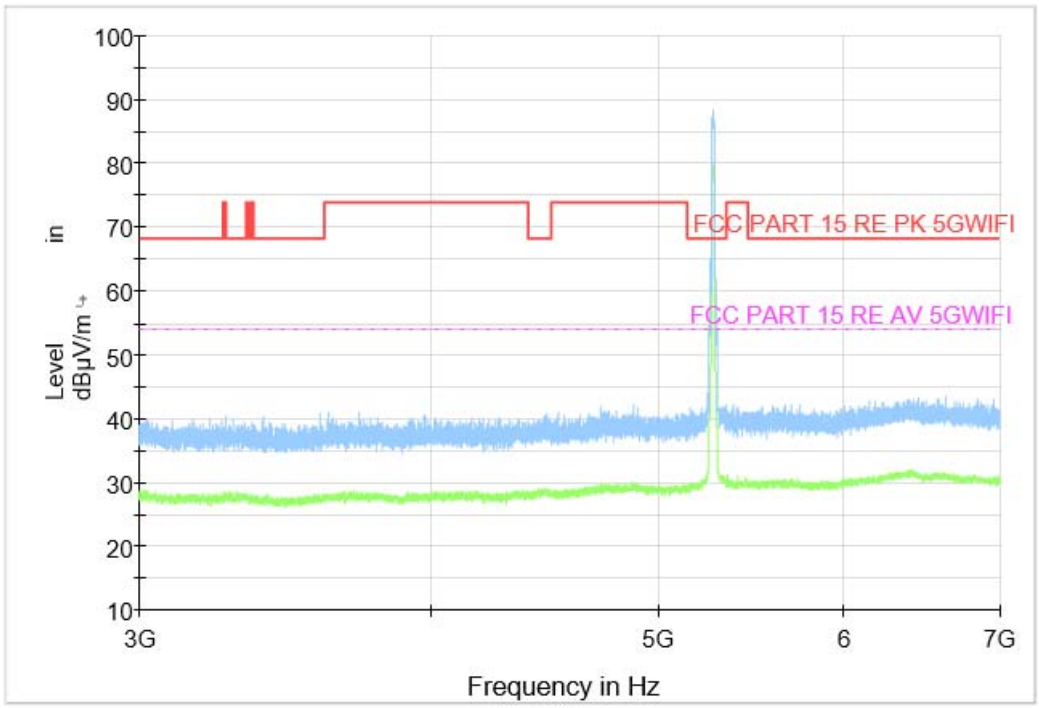

Fig. 79 Transmitter Spurious Emission (802.11n-HT20, CH56 5280MHz, 3 GHz-7 GHz)

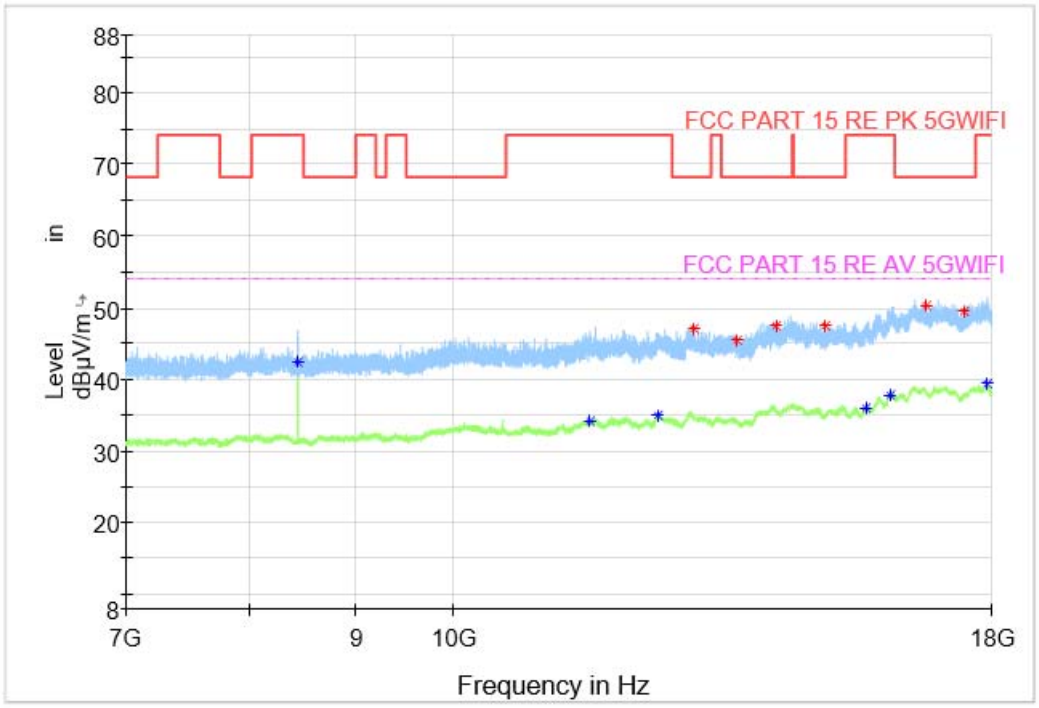

Fig. 80 Transmitter Spurious Emission (802.11n-HT20, CH56 5280MHz, 7 GHz-18 GHz)

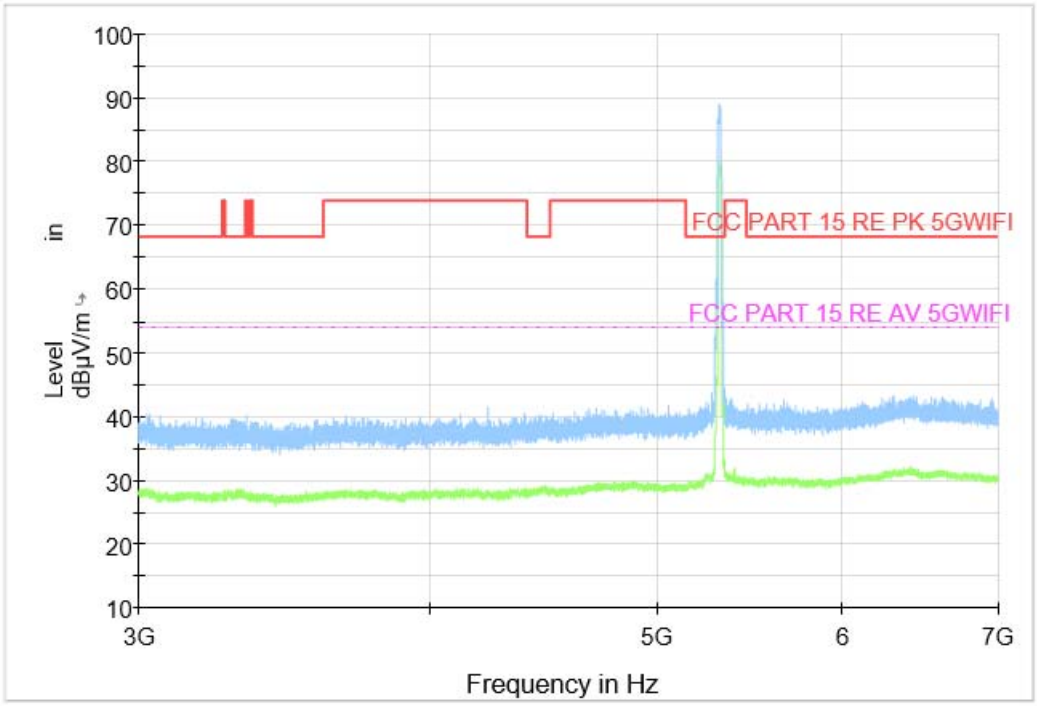

Fig. 81 Transmitter Spurious Emission (802.11n-HT20, CH64 5320MHz, 3 GHz-7 GHz)

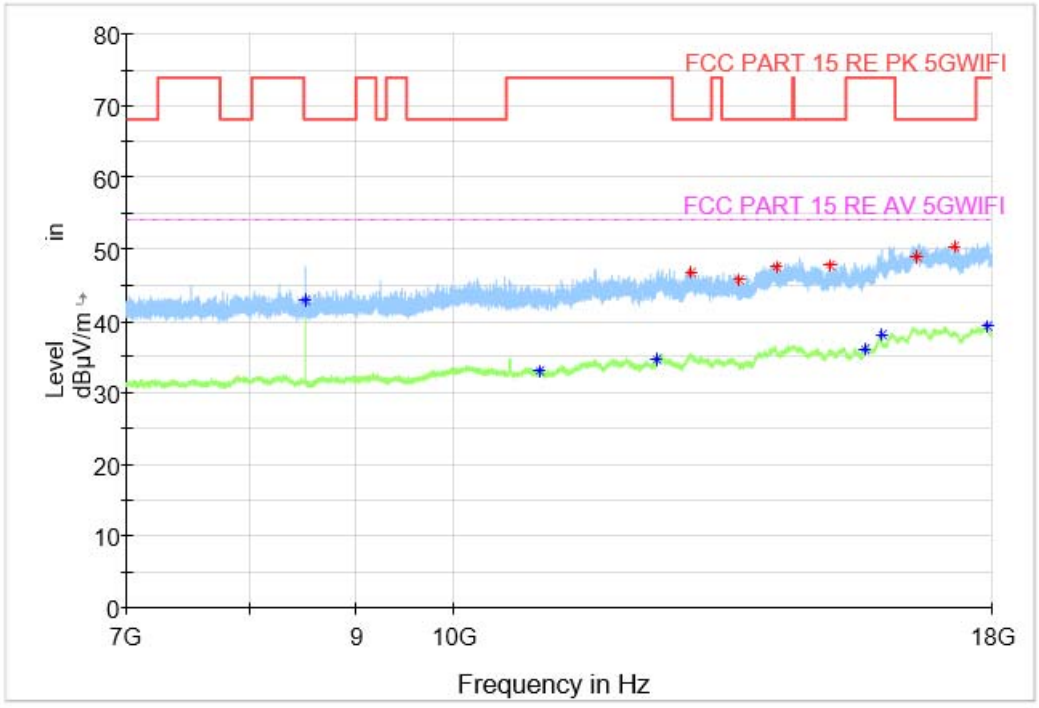

Fig. 82 Transmitter Spurious Emission (802.11n-HT20, CH64 5320MHz, 7 GHz-18 GHz)

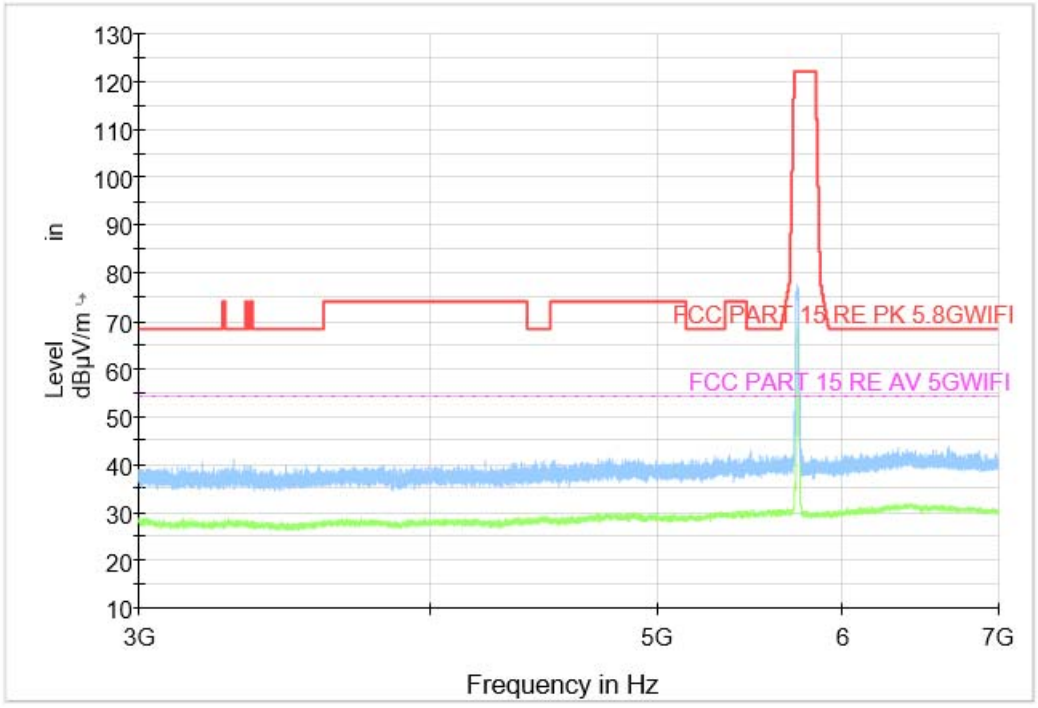

Fig. 83 Transmitter Spurious Emission (802.11n-HT20, CH149 5745MHz, 3 GHz-7 GHz)

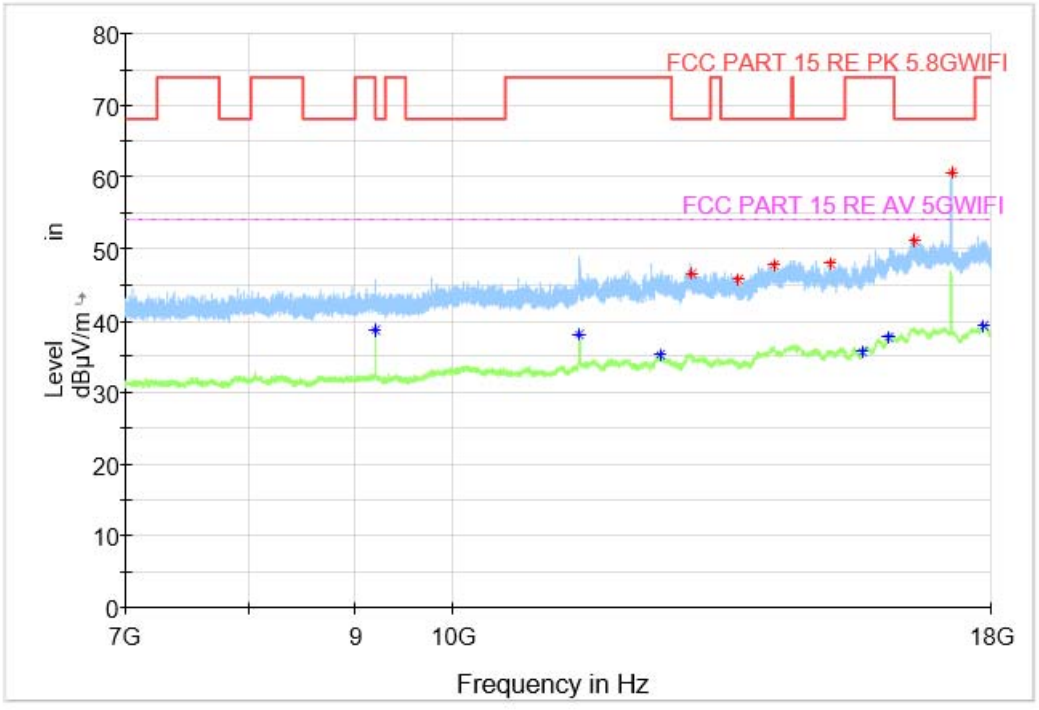

Fig. 84 Transmitter Spurious Emission (802.11n-HT20, CH149 5745MHz, 7 GHz-18 GHz)

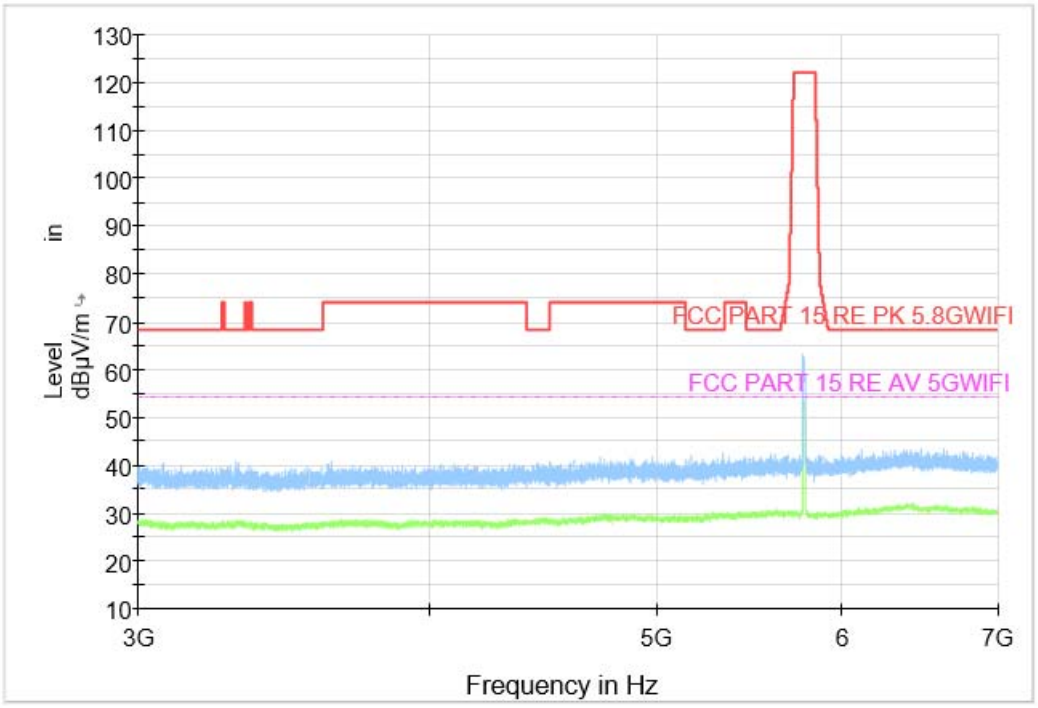

Fig. 85 Transmitter Spurious Emission (802.11n-HT20, CH157 5785MHz, 3 GHz-7 GHz)

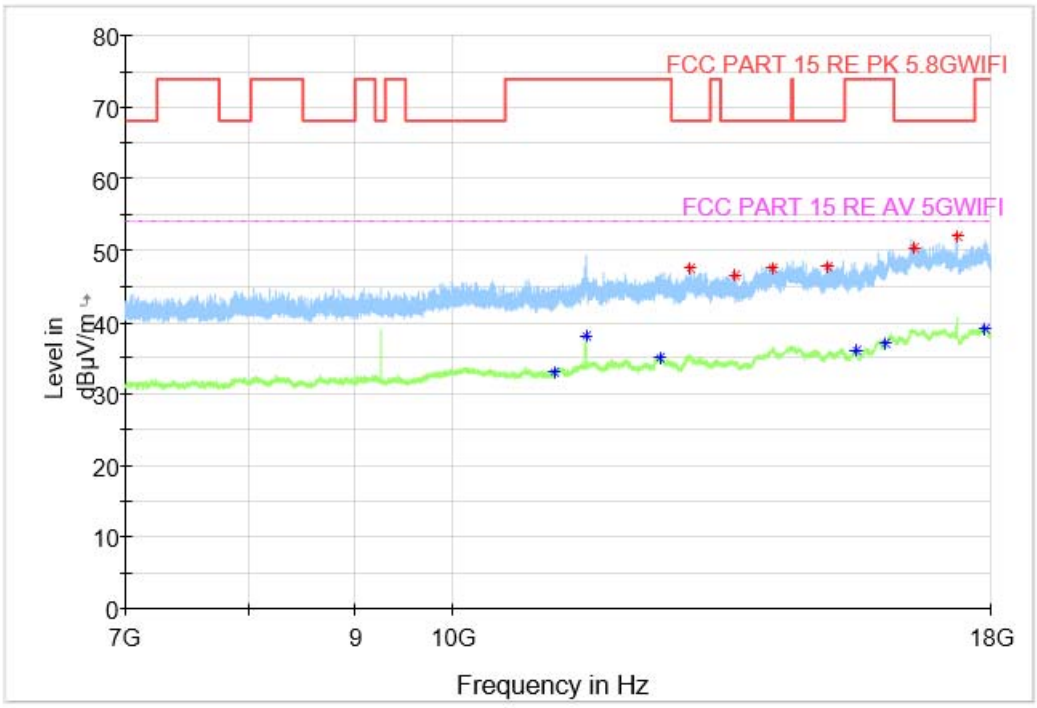

Fig. 86 Transmitter Spurious Emission (802.11n-HT20, CH157 5785MHz, 7 GHz-18 GHz)

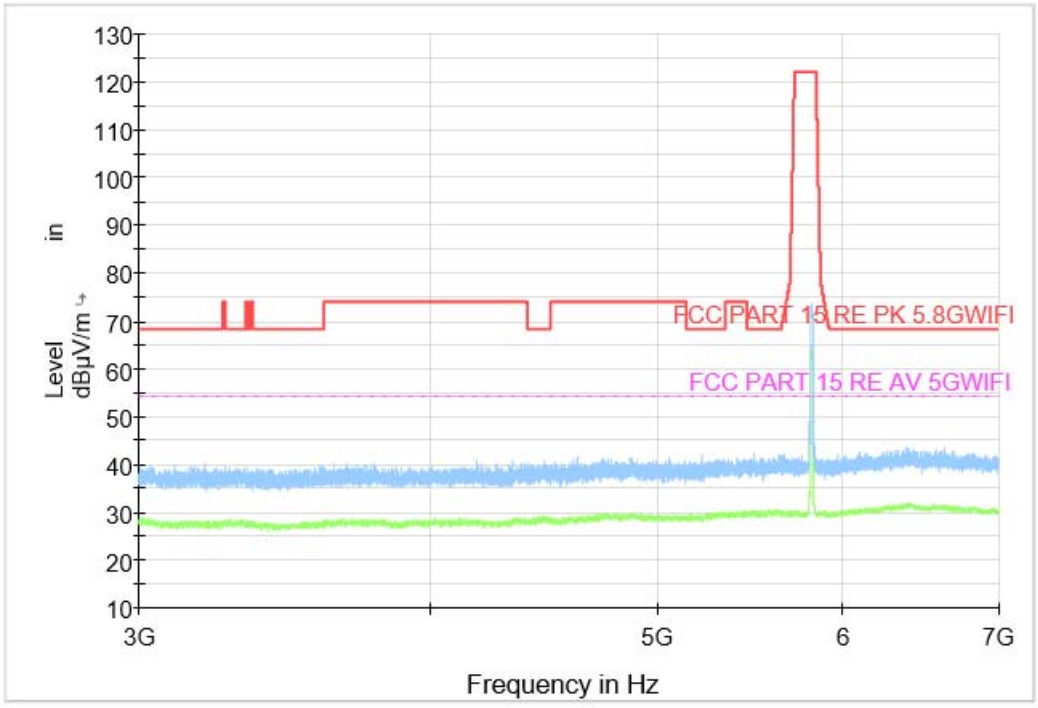

Fig. 87 Transmitter Spurious Emission (802.11n-HT20, CH165 5825MHz, 3 GHz-7 GHz)

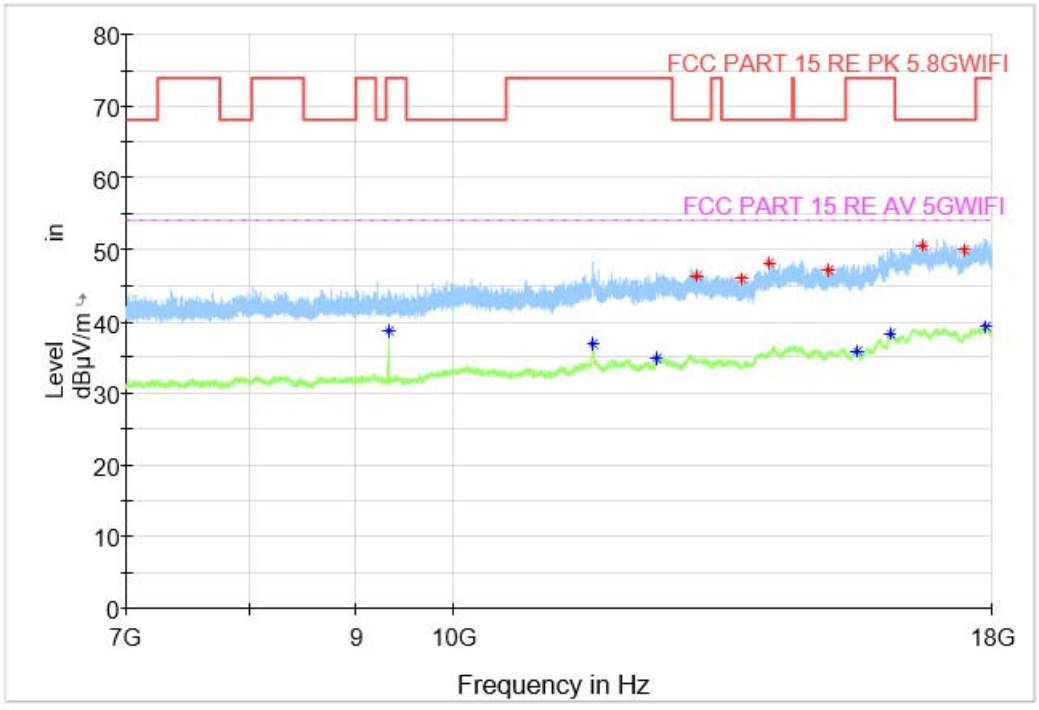

Fig. 88 Transmitter Spurious Emission (802.11n-HT20, CH165 5825MHz, 7 GHz-18 GHz)

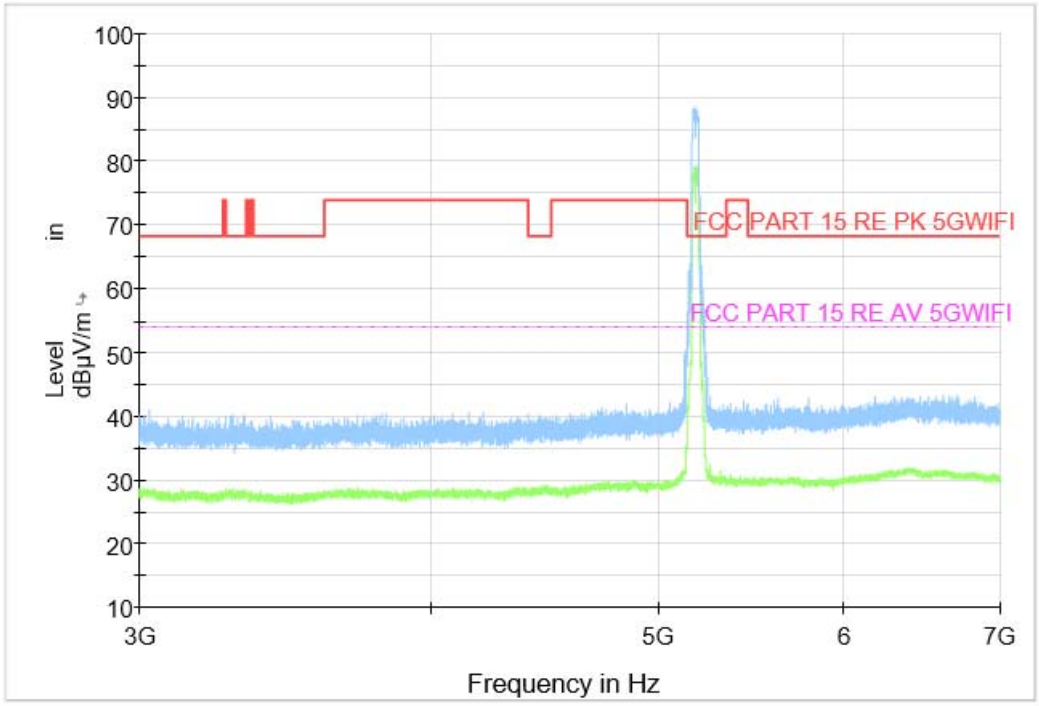

Fig. 89 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 3 GHz-7 GHz)

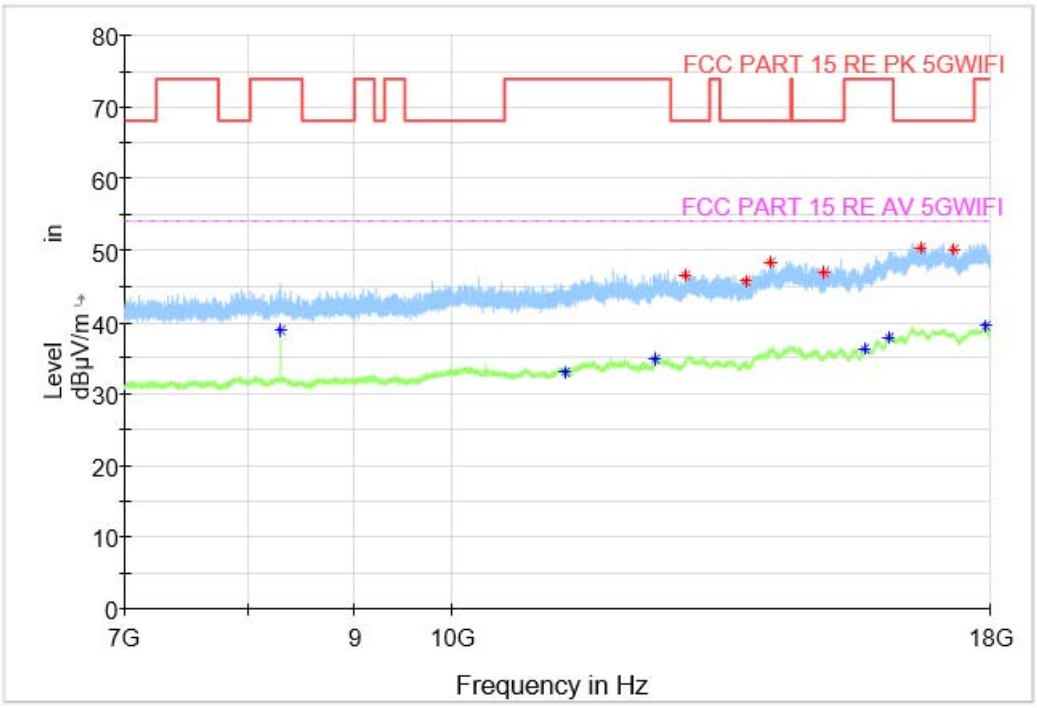

Fig. 90 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 7 GHz-18 GHz)

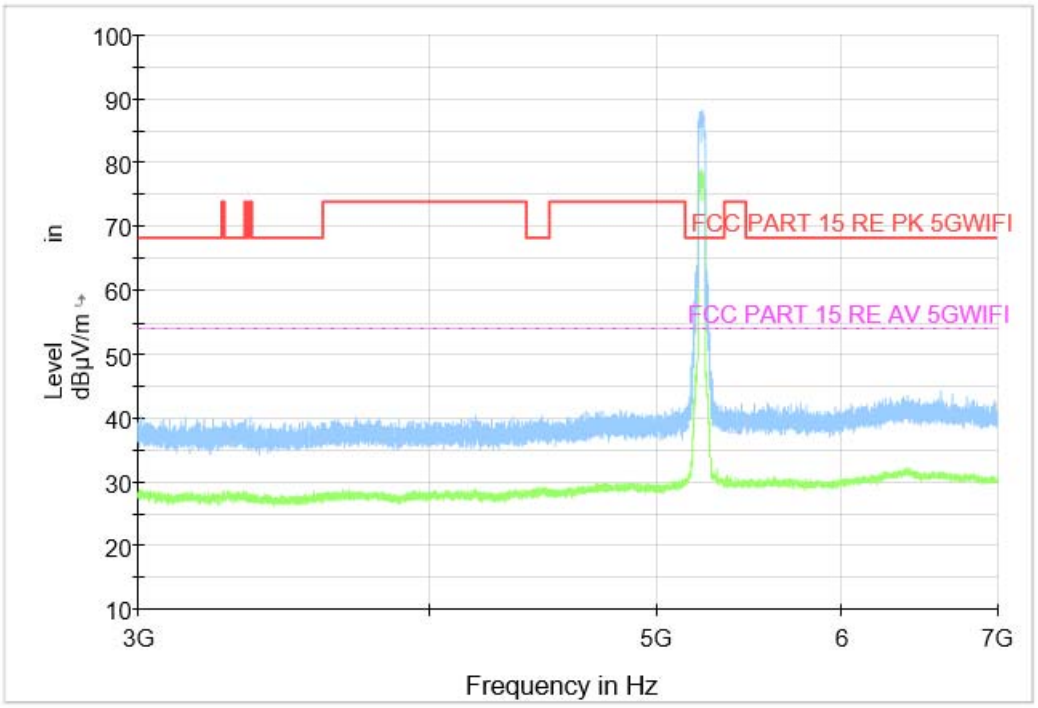

Fig. 91 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 3 GHz-7 GHz)

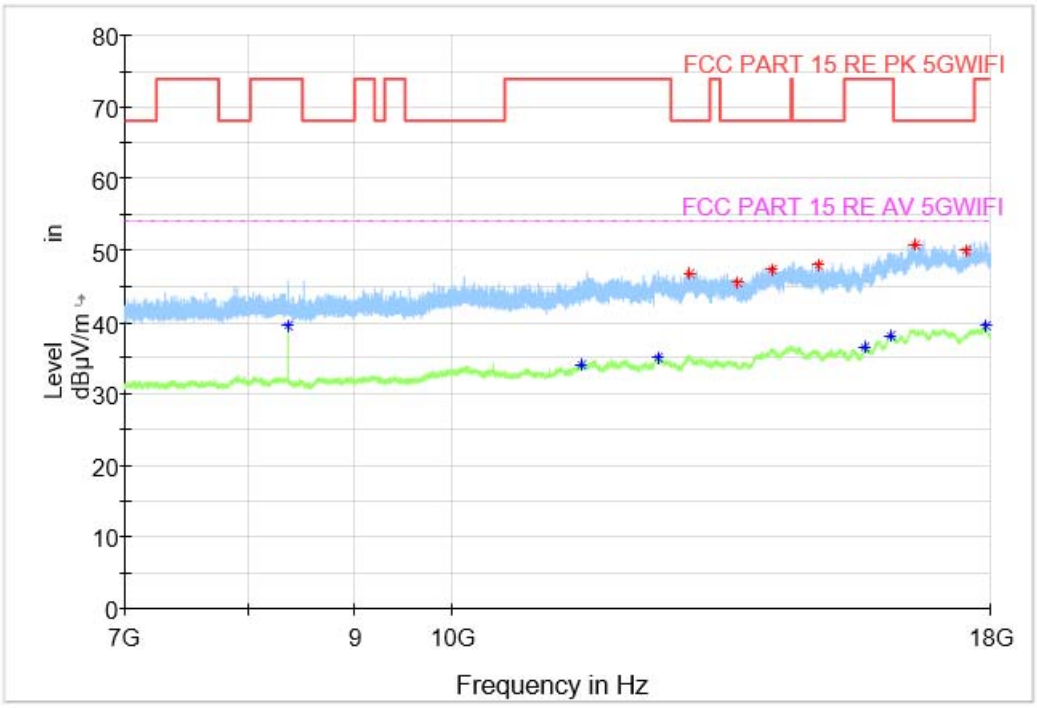

Fig. 92 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 7 GHz-18 GHz)

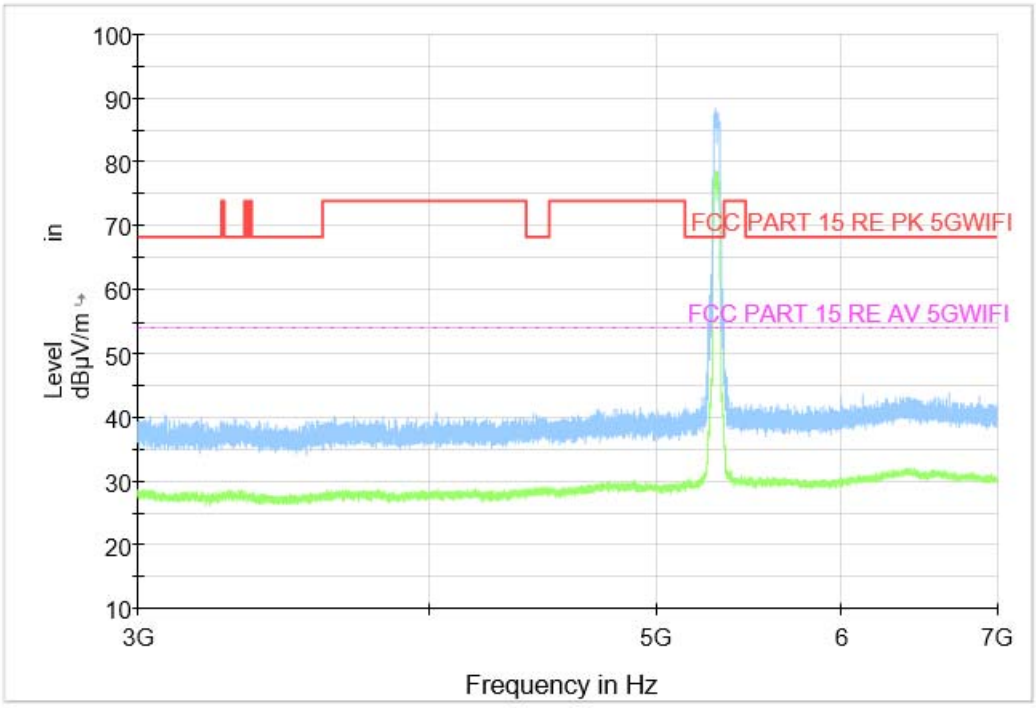

Fig. 93 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 3 GHz-7 GHz)

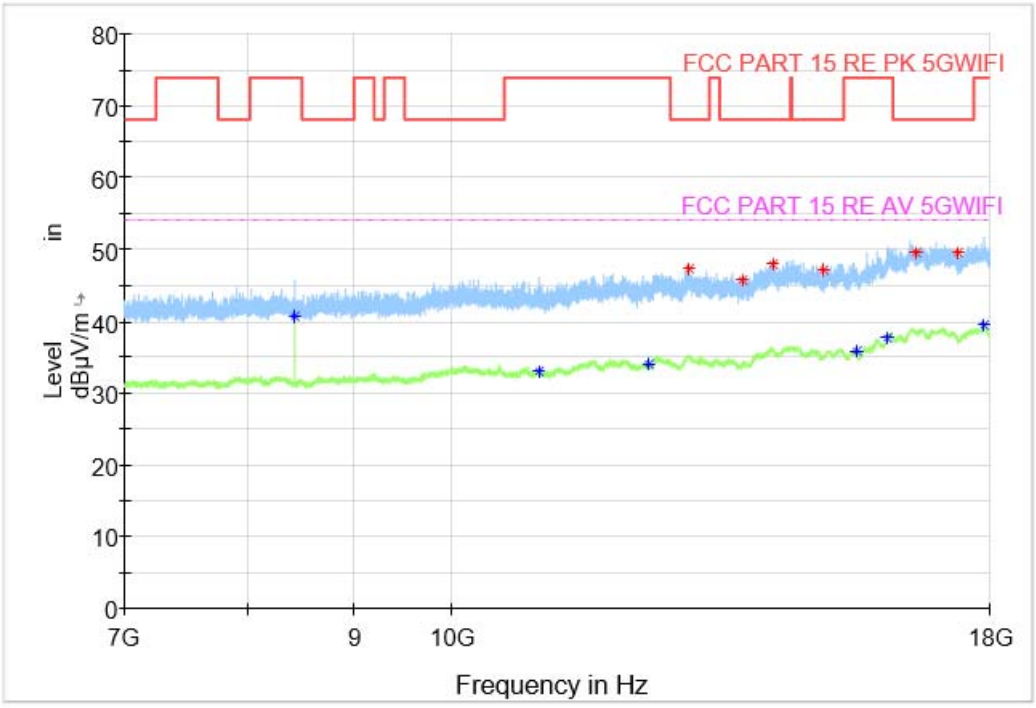

Fig. 94 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 7 GHz-18 GHz)

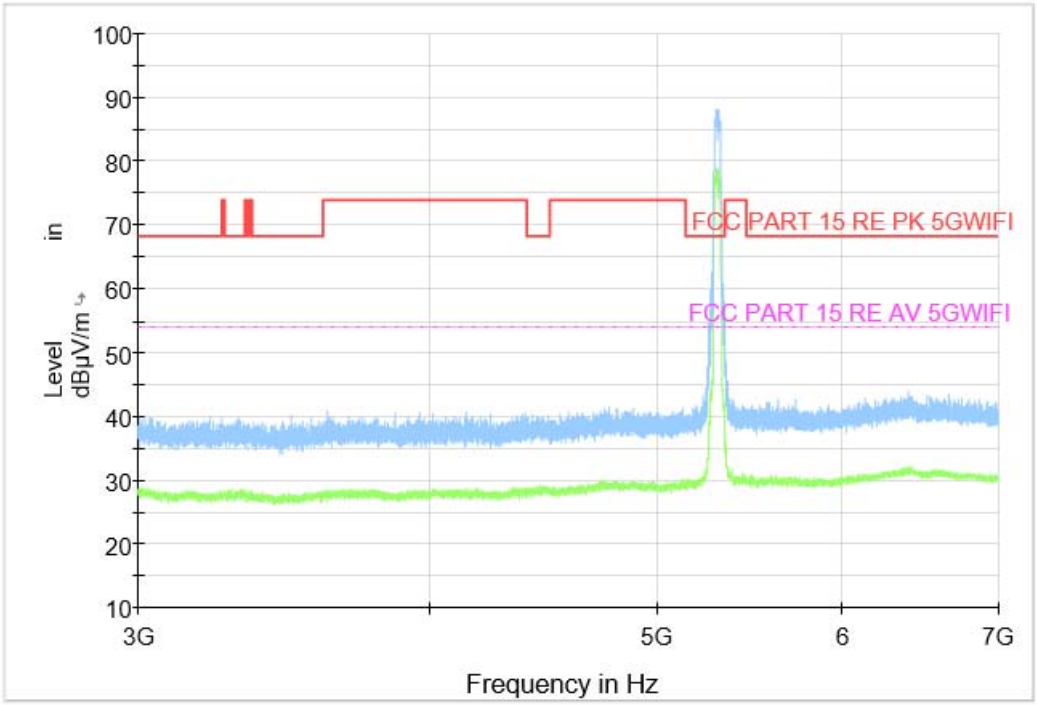

Fig. 95 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 3 GHz-7 GHz)

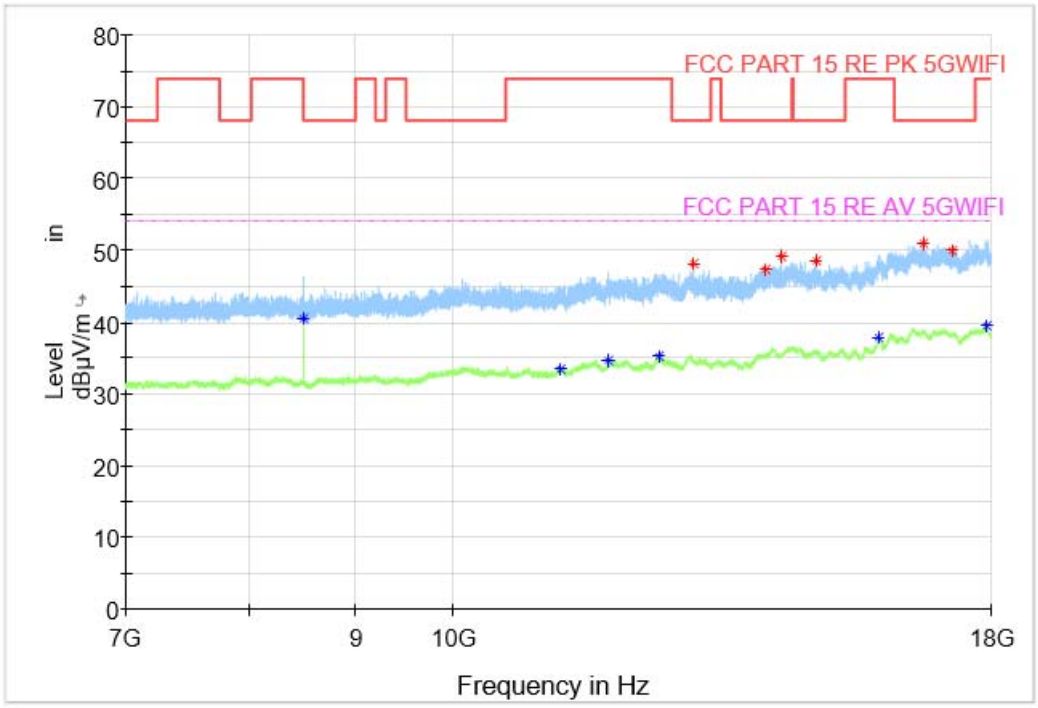

Fig. 96 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 7 GHz-18 GHz)

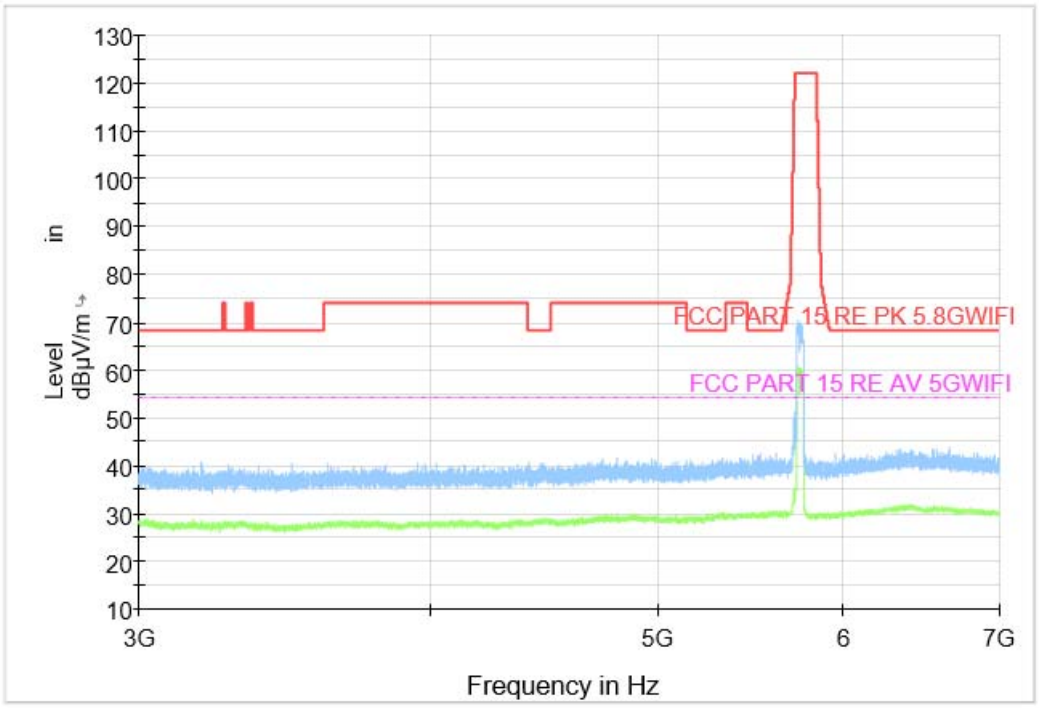

Fig. 97 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz, 3 GHz-7 GHz)

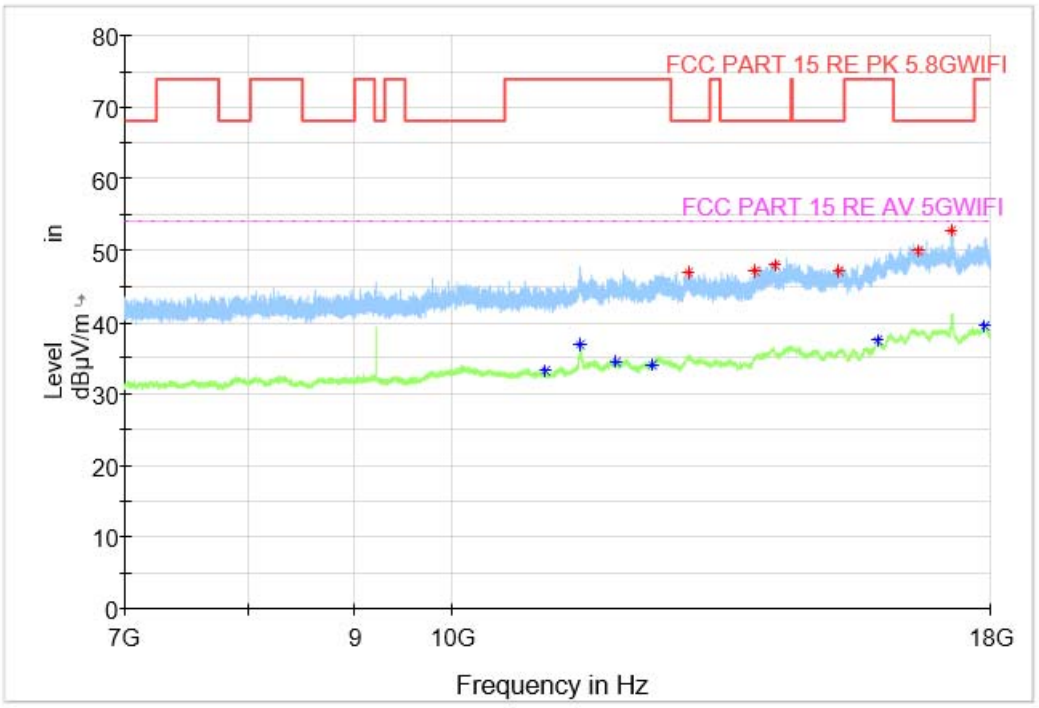

Fig. 98 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz, 7 GHz-18 GHz)

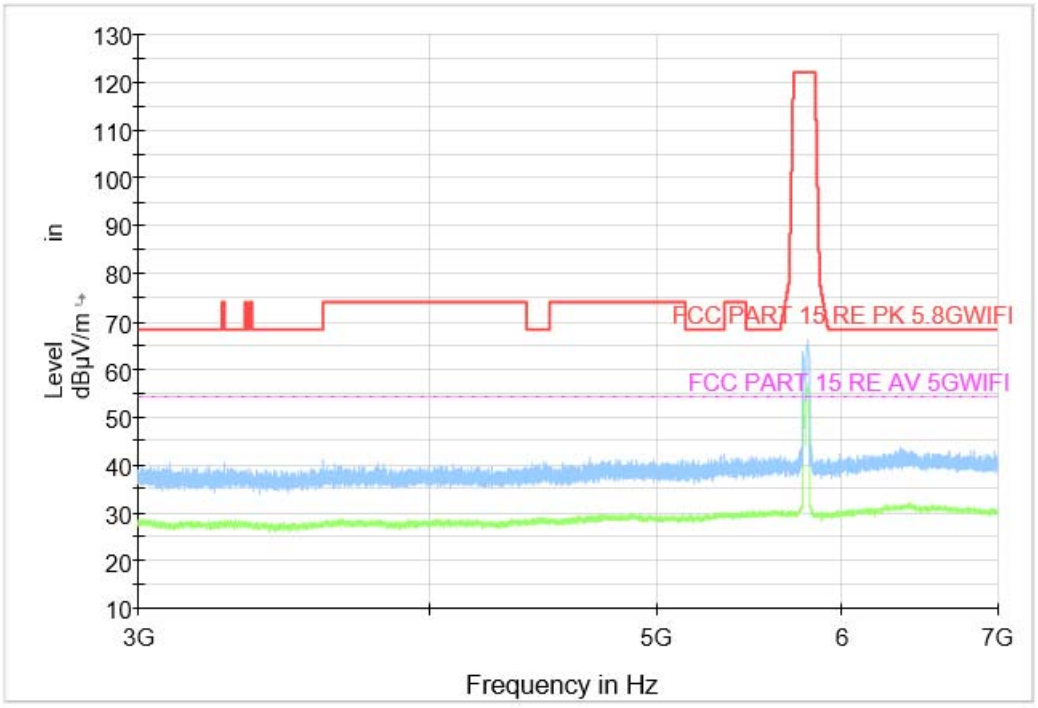

Fig. 99 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz, 3 GHz-7 GHz)

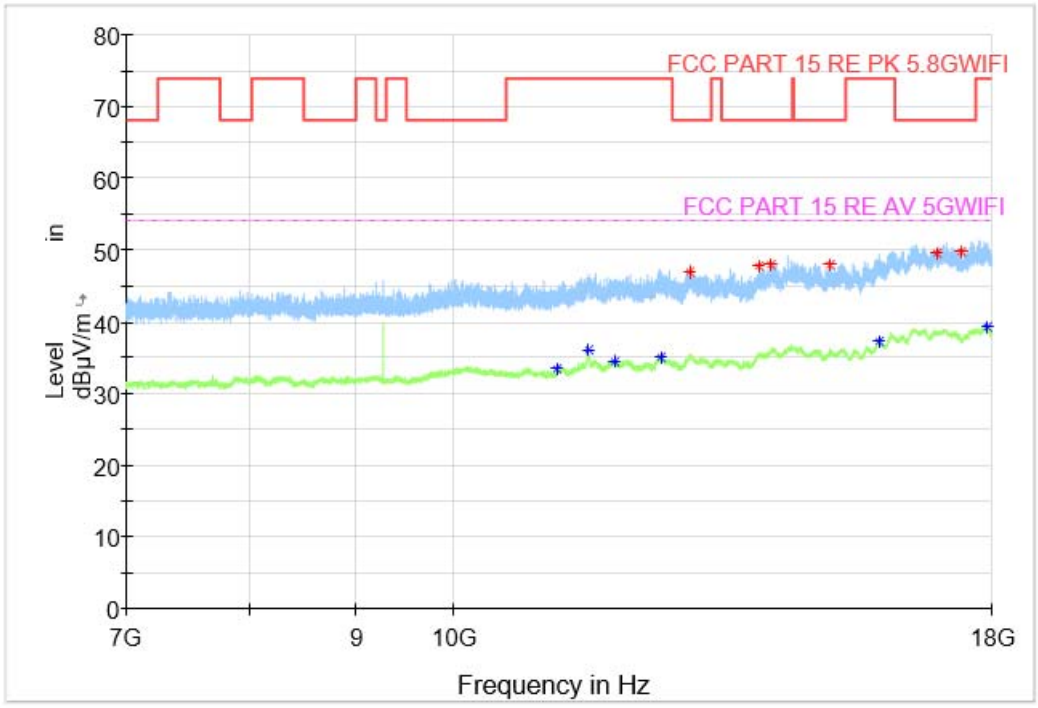

Fig. 100 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz, 7 GHz-18 GHz)

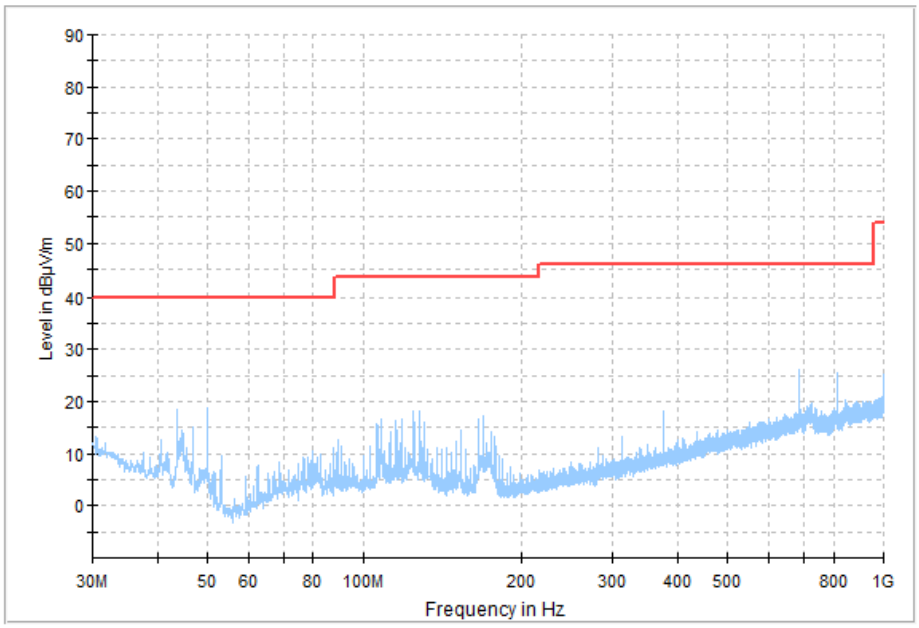

Fig. 101 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

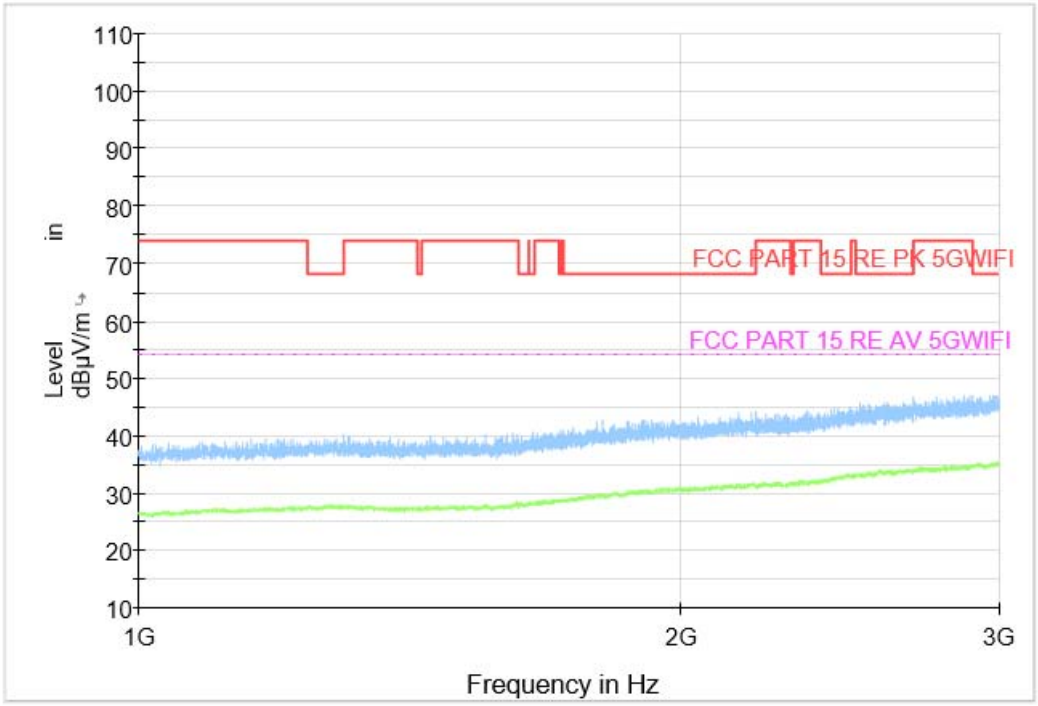

Fig. 102 Transmitter Spurious Emission (All channel, 1GHz ~3GHz)

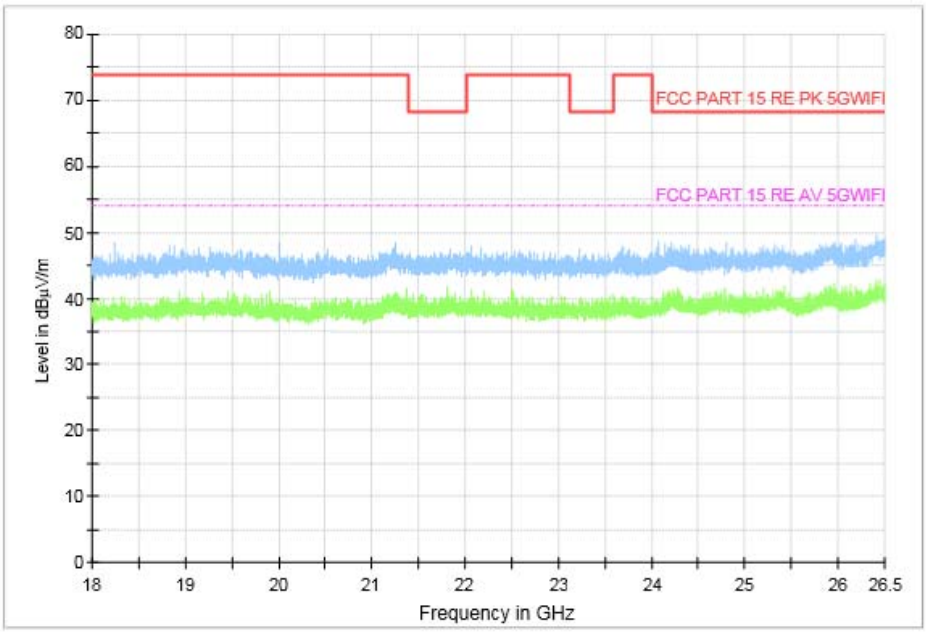

Fig. 103 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

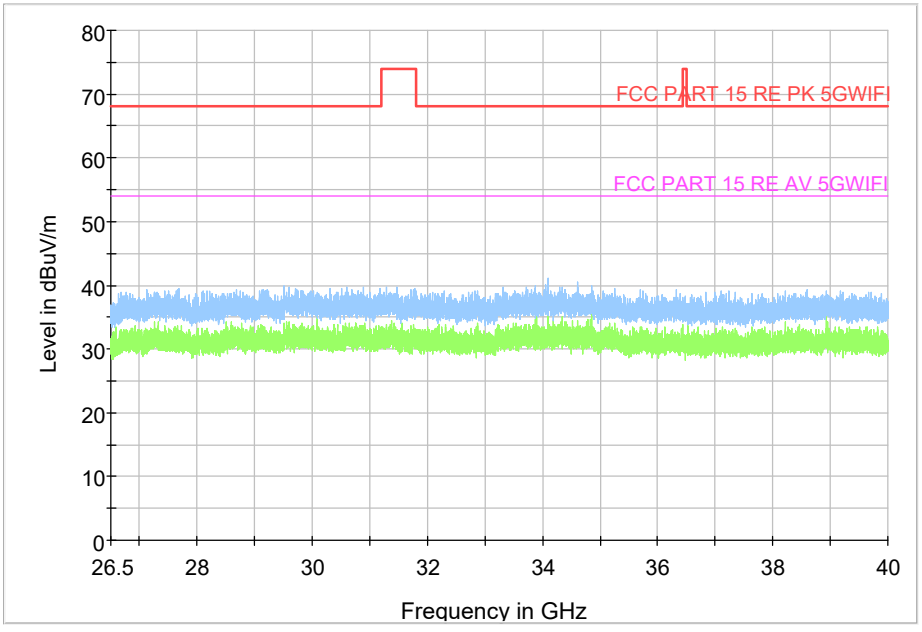

Fig. 104 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

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.105	**P**

Conclusion: PASS

Test graphs as below:

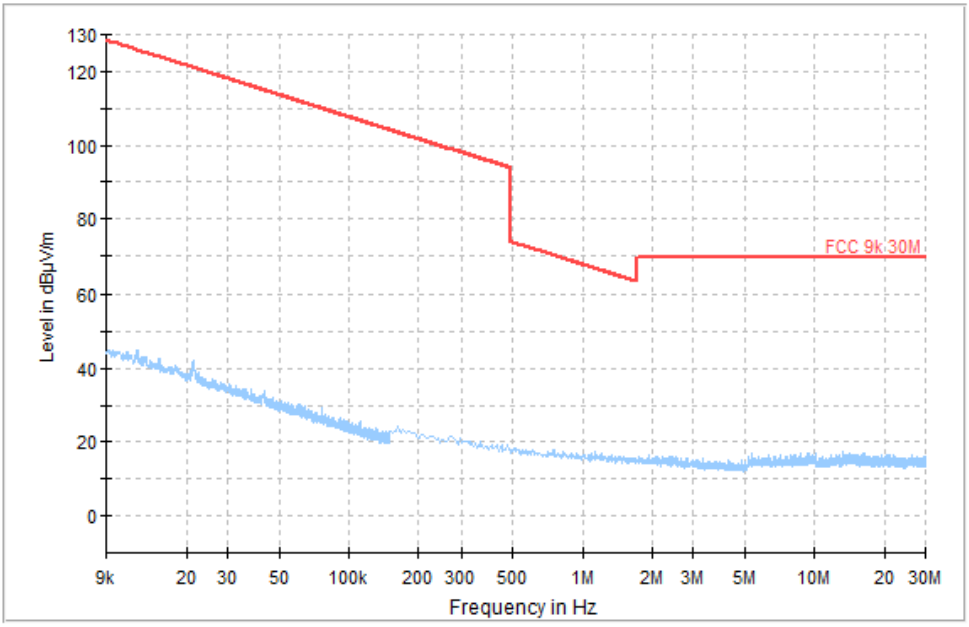

Fig. 105 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)

A.10. AC Power Line Conducted Emission

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit)-AE2-1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.106	Fig.107	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)- AE2-1

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	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.				

LAN (Quasi-peak Limit)-AE2-2

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.16 to 0.5	66 to 56	Fig.108	Fig.109	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)- AE2-2

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig 108	Fig 109	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.

Test graphs as below:

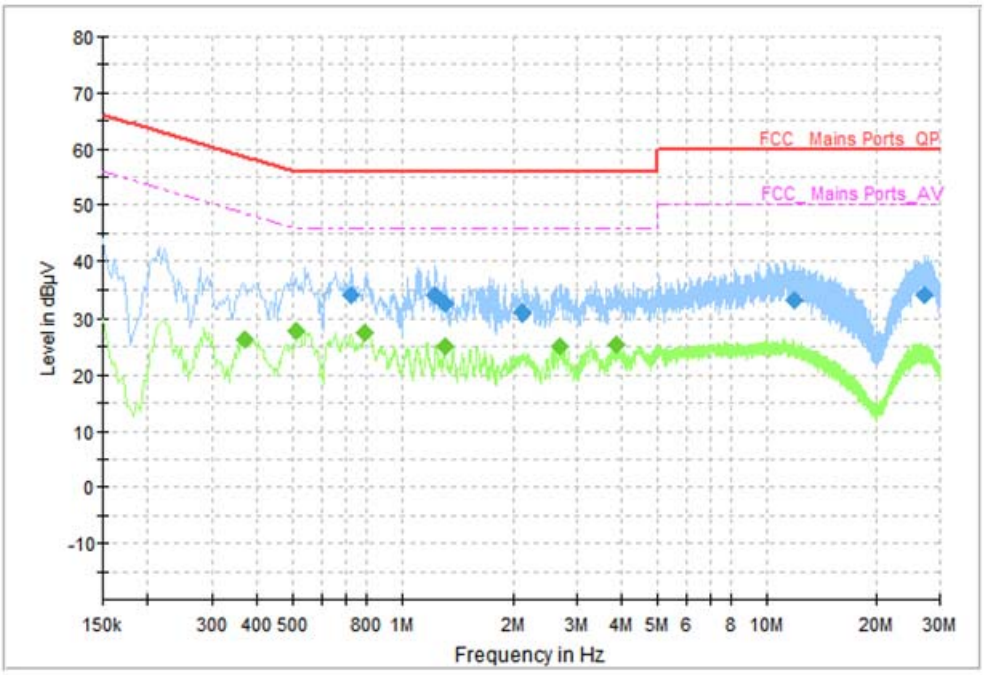

Fig. 106 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.726000	33.95	56.00	22.05	N	ON	9.7
1.238000	33.82	56.00	22.18	N	ON	9.7
1.310000	32.30	56.00	23.70	N	ON	9.7
2.126000	30.97	56.00	25.03	N	ON	9.7
11.878000	32.92	60.00	27.08	N	ON	9.9
27.266000	33.92	60.00	26.08	L1	ON	10.1

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.370000	26.39	48.50	22.11	N	ON	9.6
0.514000	27.84	46.00	18.16	N	ON	9.7
0.794000	27.43	46.00	18.57	N	ON	9.7
1.310000	25.22	46.00	20.78	N	ON	9.7
2.694000	25.02	46.00	20.98	N	ON	9.7
3.874000	25.51	46.00	20.50	N	ON	9.7

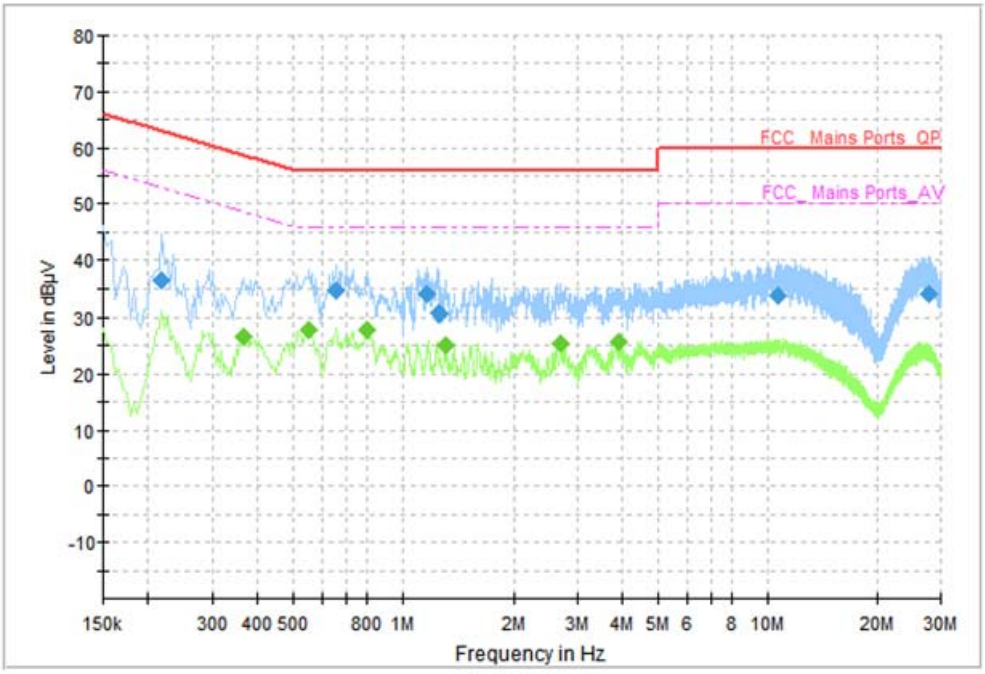

Fig. 107 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.218000	36.26	62.90	26.64	N	ON	9.6
0.658000	34.66	56.00	21.34	N	ON	9.6
1.166000	33.89	56.00	22.11	N	ON	9.7
1.258000	30.68	56.00	25.32	N	ON	9.8
10.662000	33.58	60.00	26.42	N	ON	9.6
27.866000	33.99	60.00	26.01	L1	ON	9.6

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.366000	26.65	48.59	21.94	N	ON	9.6
0.554000	27.84	46.00	18.16	N	ON	9.6
0.798000	27.72	46.00	18.28	N	ON	9.6
1.318000	25.21	46.00	20.79	N	ON	9.6
2.698000	25.51	46.00	20.49	N	ON	9.7
3.878000	25.60	46.00	20.40	N	ON	9.8

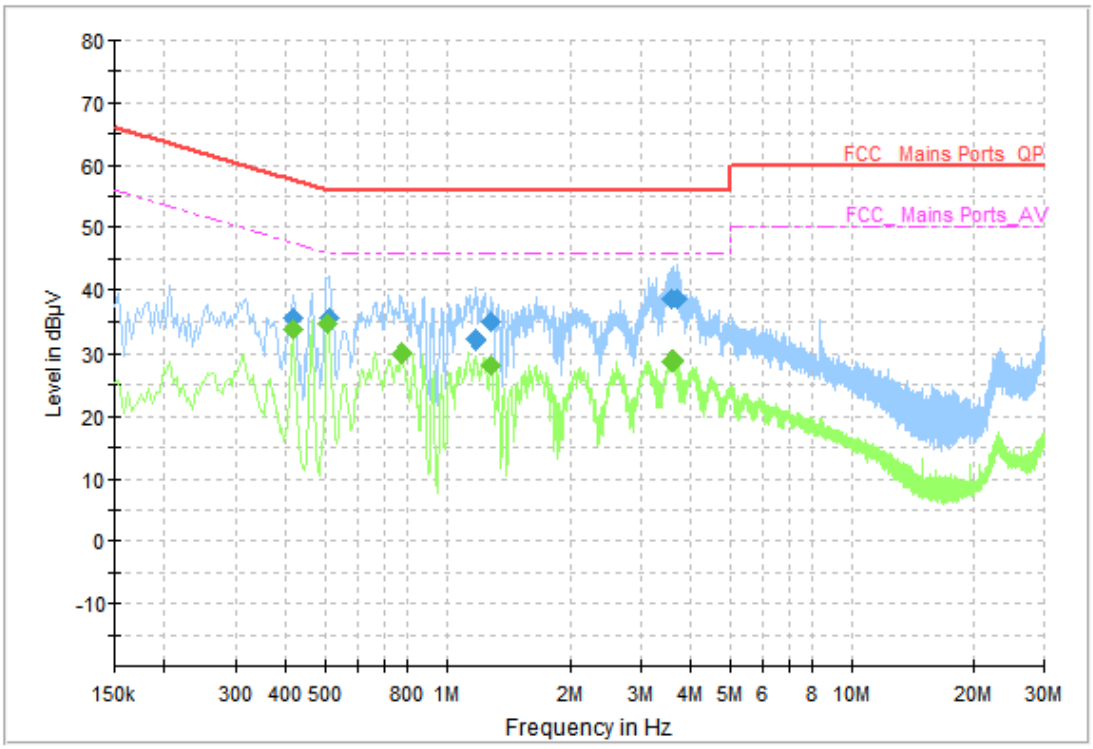

Fig. 108 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	35.60	57.49	21.89	N	ON	9.7
0.510000	35.43	56.00	20.57	N	ON	9.7
1.186000	32.21	56.00	23.79	N	ON	9.7
1.286000	34.89	56.00	21.11	N	ON	9.7
3.578000	38.64	56.00	17.36	N	ON	9.9
3.674000	38.48	56.00	17.52	L1	ON	10.1

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.414000	33.56	47.57	14.01	N	ON	9.6
0.506000	34.67	46.00	11.33	N	ON	9.7
0.774000	29.96	46.00	16.04	N	ON	9.7
1.286000	28.29	46.00	17.71	N	ON	9.7
3.578000	28.73	46.00	17.27	N	ON	9.7
3.630000	28.76	46.00	17.24	N	ON	9.7

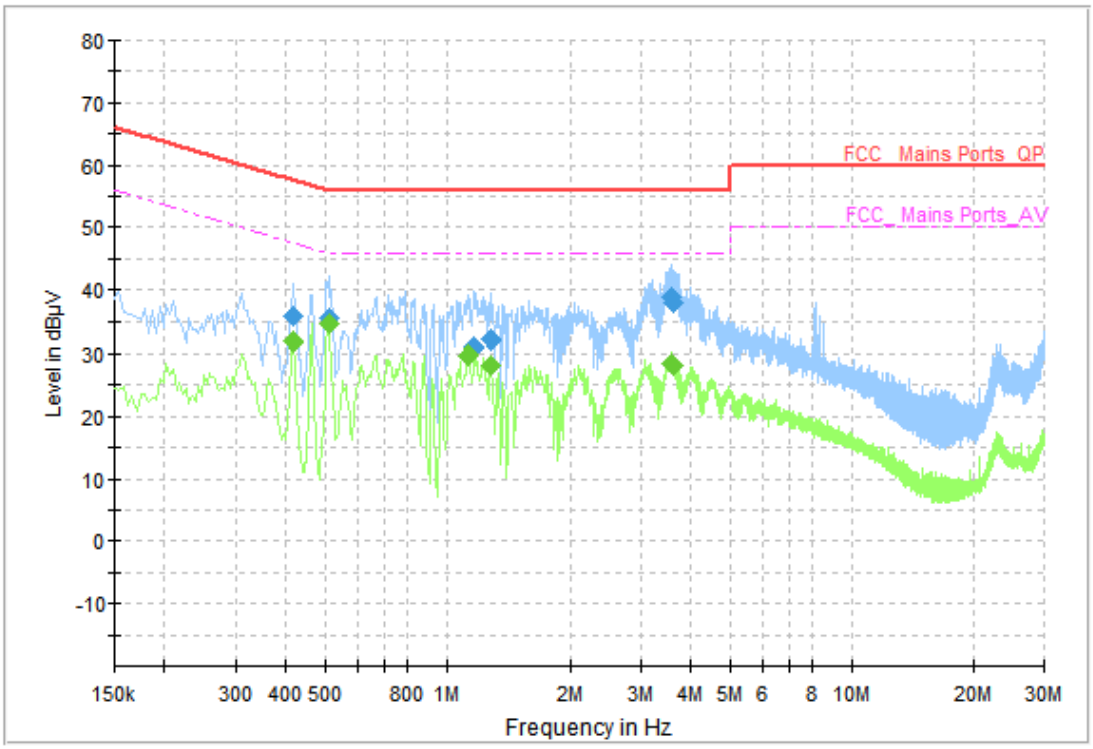

Fig. 109 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	35.80	57.49	21.69	L1	ON	9.7
0.510000	35.53	56.00	20.47	L1	ON	9.7
1.170000	31.02	56.00	24.98	L1	ON	9.7
1.286000	31.99	56.00	24.01	L1	ON	9.7
3.590000	38.95	56.00	17.05	N	ON	9.7
3.618000	38.01	56.00	17.99	N	ON	9.7

Measurement Result: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	31.76	47.49	15.73	N	ON	9.7
0.510000	34.54	46.00	11.46	N	ON	9.7
1.130000	29.76	46.00	16.24	N	ON	9.7
1.286000	28.03	46.00	17.97	N	ON	9.7
3.582000	28.61	46.00	17.39	N	ON	9.7
3.618000	28.08	46.00	17.92	N	ON	9.7

A.11. 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*****