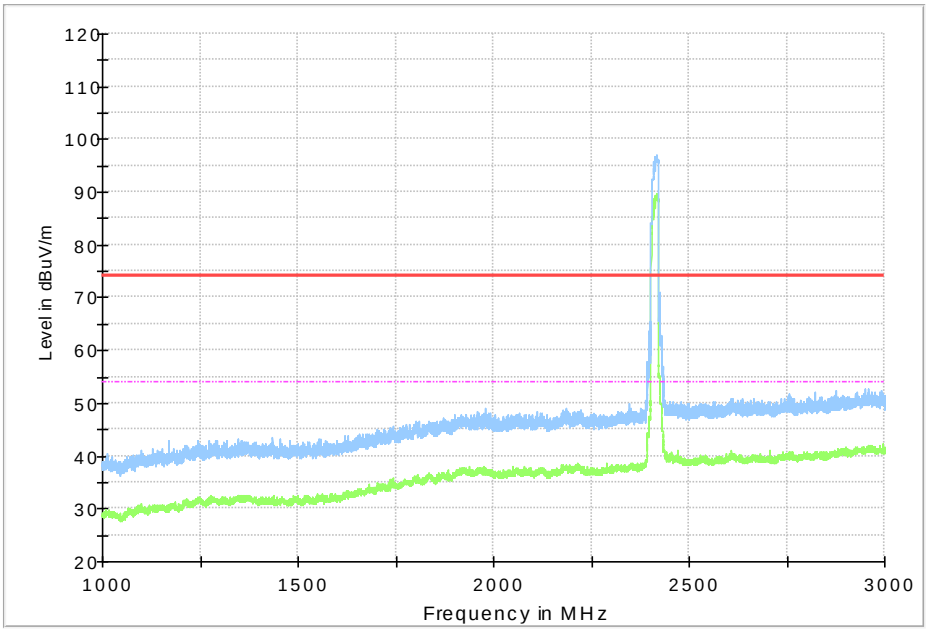

Fig.61 Radiated Spurious Emission (802.11n HT20, CH1, 1GHz-3GHz)

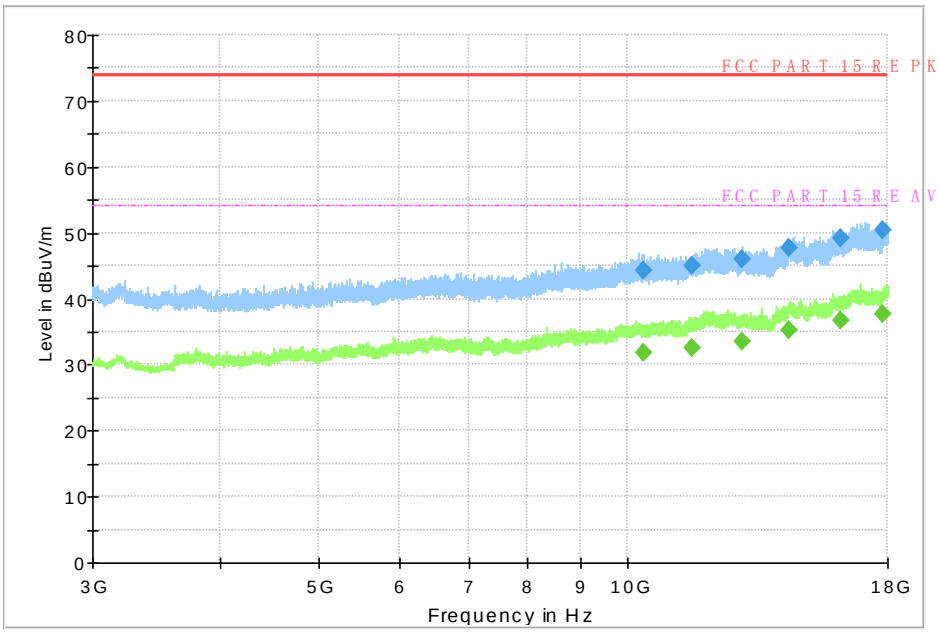

Fig.62 Radiated Spurious Emission (802.11n HT20, CH1, 3GHz-18GHz)

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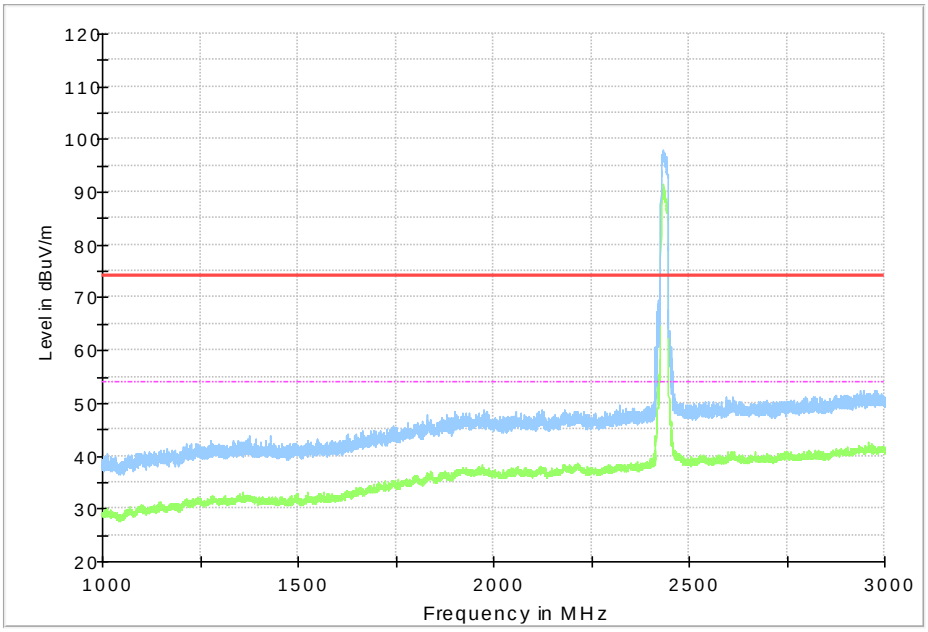

Fig.63 Radiated Spurious Emission (802.11n HT20, CH6, 1GHz-3GHz)

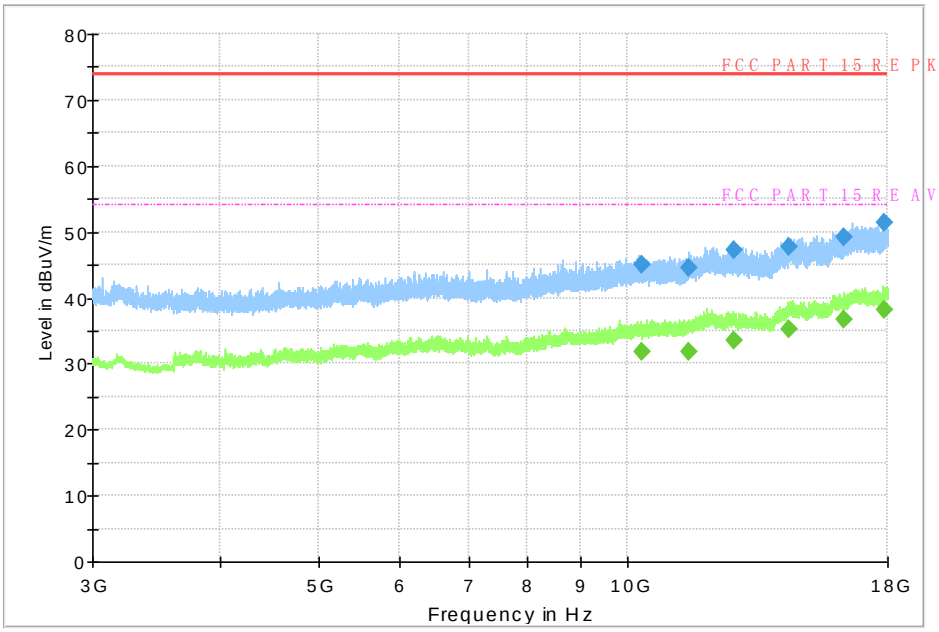

Fig.64 Radiated Spurious Emission (802.11n HT20, CH6, 3GHz-18GHz)

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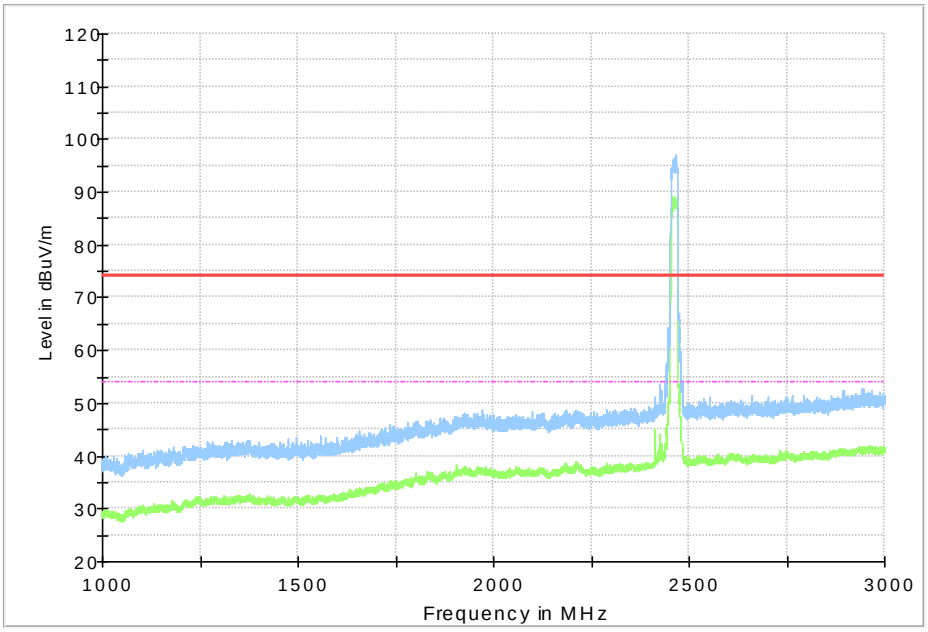

Fig.65 Radiated Spurious Emission (802.11n HT20, CH11, 1GHz-3GHz)

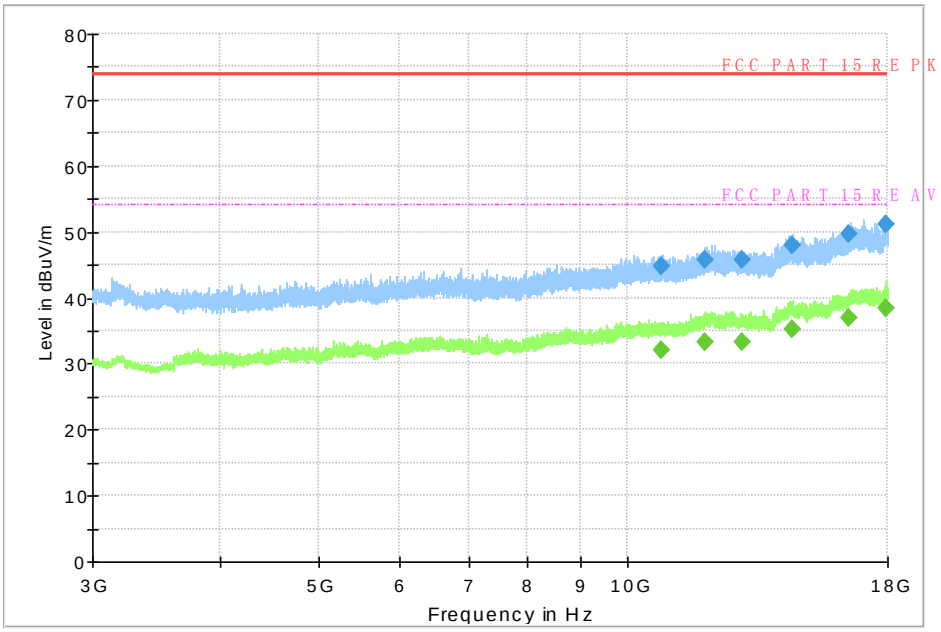

Fig.66 Radiated Spurious Emission (802.11n HT20, CH11, 3GHz-18GHz)

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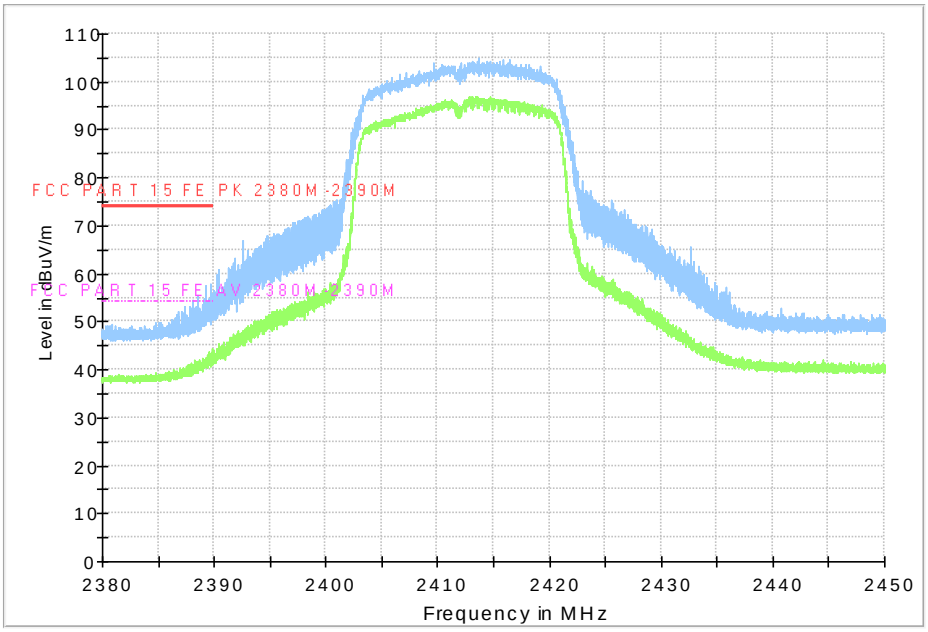

Fig.67 Radiated Restricted Band (802.11n HT20, CH1, 2.38GHz~2.45GHz)

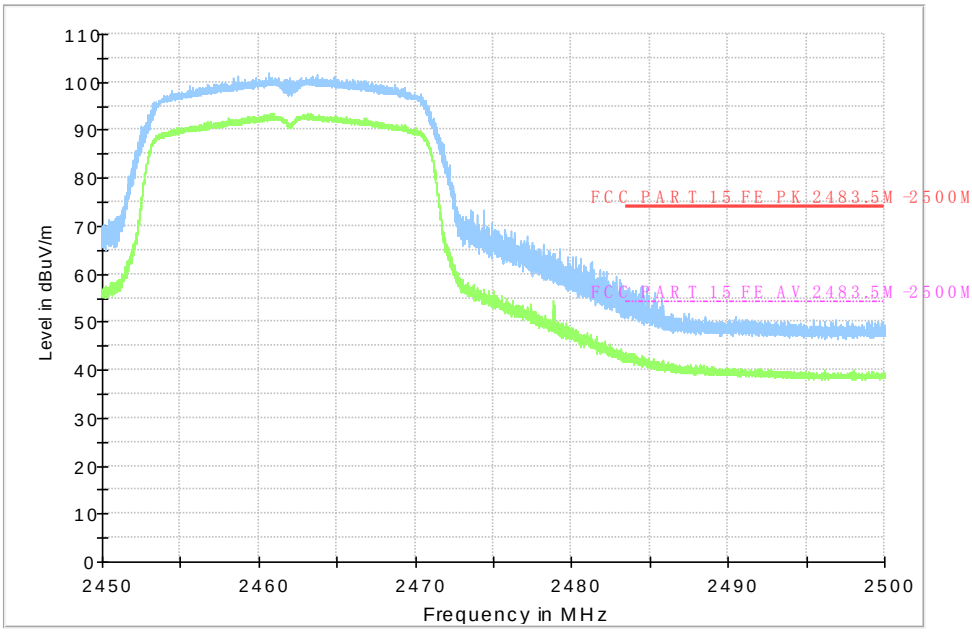

Fig.68 Radiated Restricted Band (802.11n HT20, CH11, 2.45GHz~2.5GHz)

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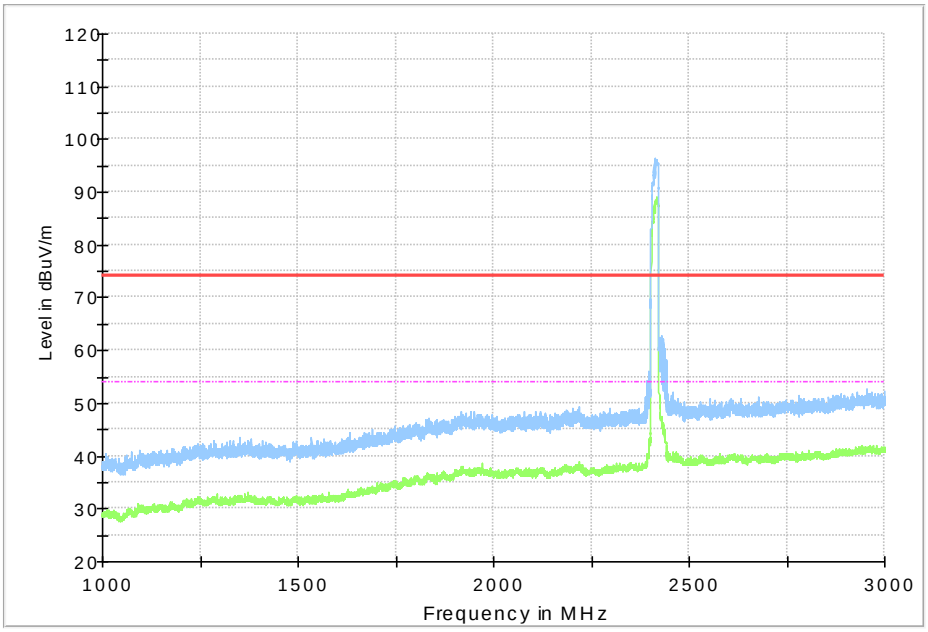

Fig.69 Radiated Spurious Emission (802.11n HT40, CH3, 1GHz-3GHz)

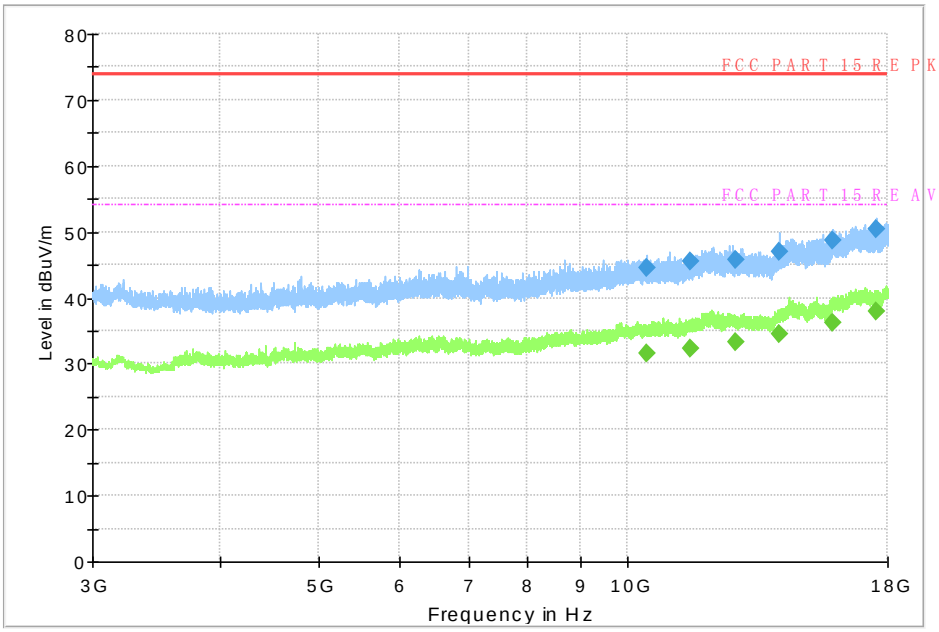

Fig.70 Radiated Spurious Emission (802.11n HT40, CH3, 3GHz-18GHz)

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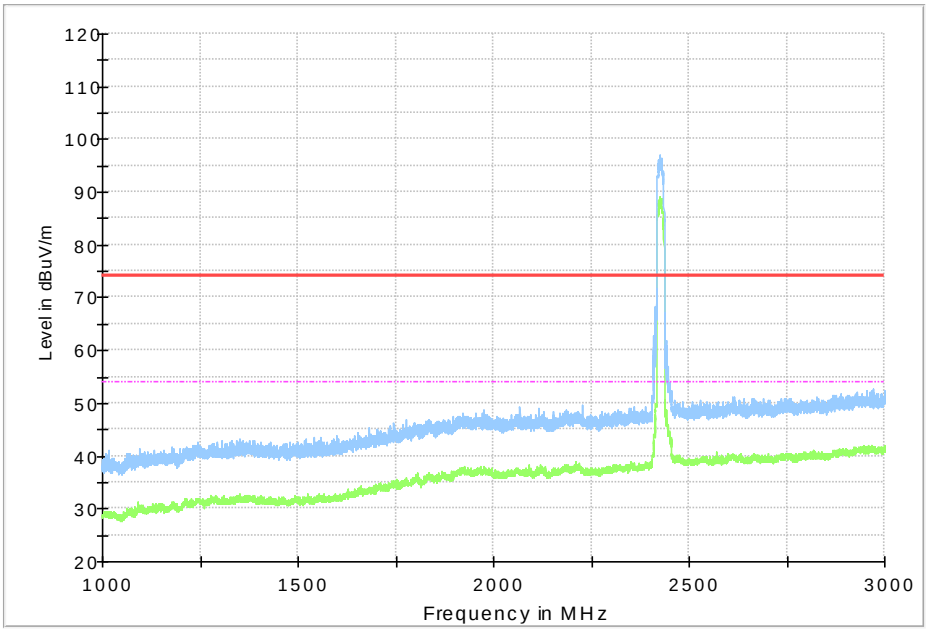

Fig.71 Radiated Spurious Emission (802.11n HT40, CH6, 1GHz-3GHz)

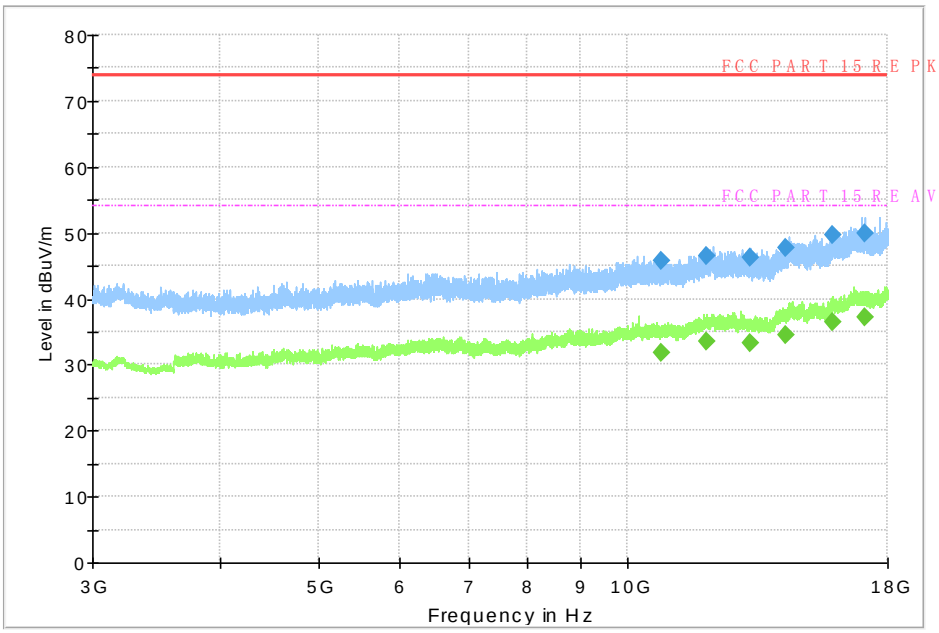

Fig.72 Radiated Spurious Emission (802.11n HT40, CH6, 3GHz-18GHz)

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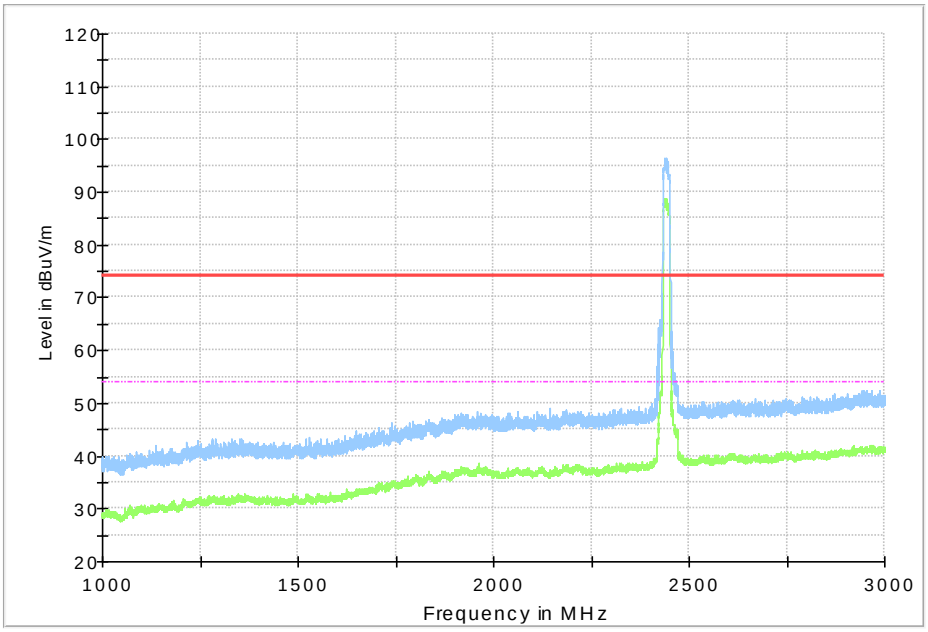

Fig.73 Radiated Spurious Emission (802.11n HT40, CH9, 1GHz-3GHz)

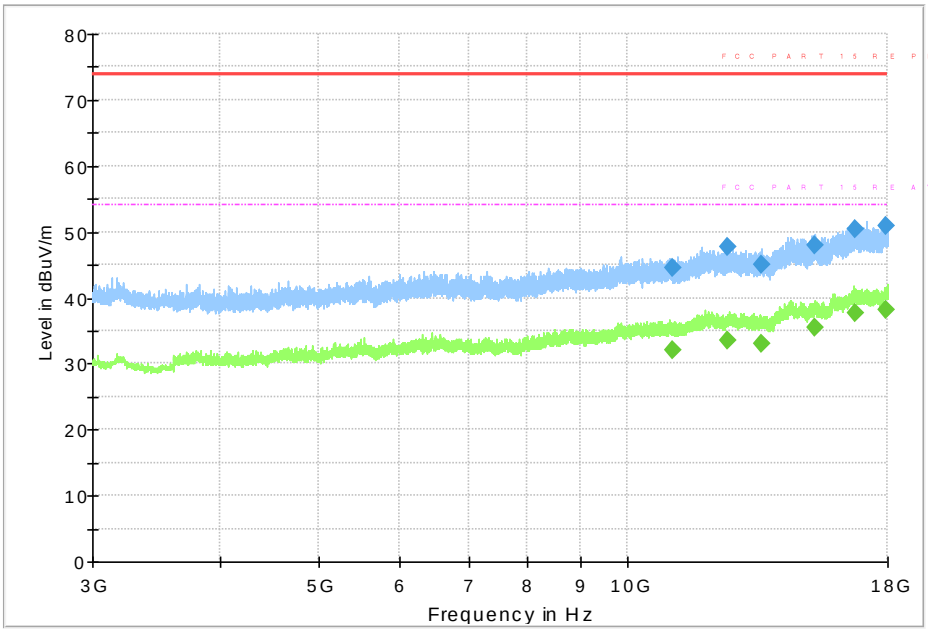

Fig.74 Radiated Spurious Emission (802.11n HT40, CH9, 3GHz-18GHz)

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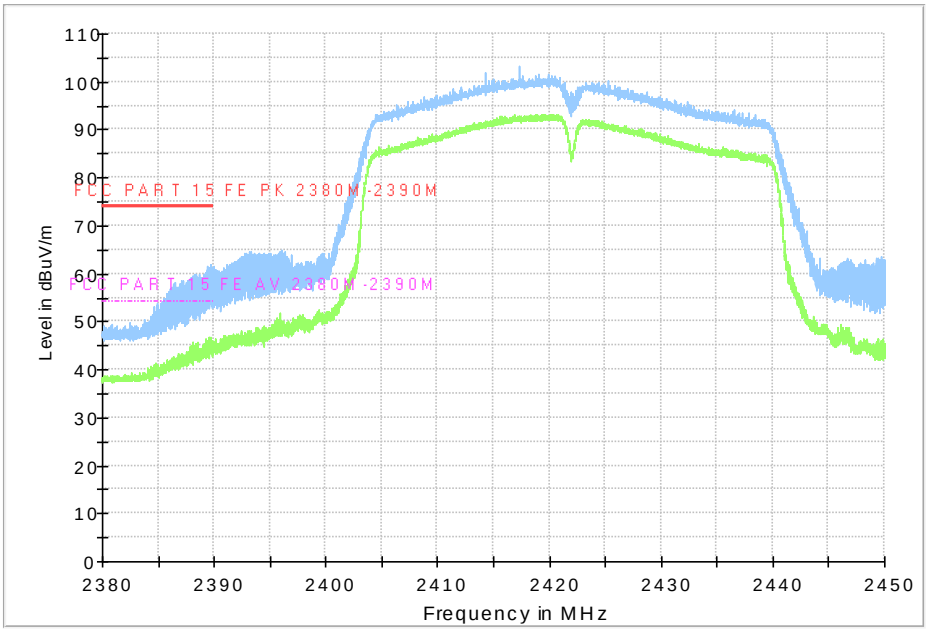

Fig.75 Radiated Restricted Band (802.11n HT40, CH3, 2.38GHz~2.45GHz)

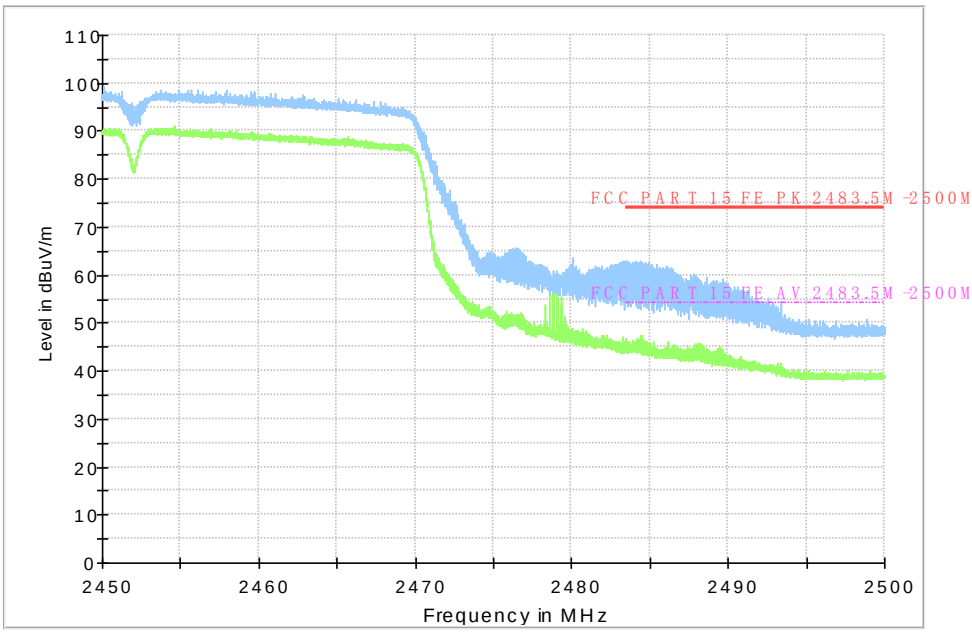

Fig.76 Radiated Restricted Band (802.11n HT40, CH9, 2.45GHz~2.5GHz)

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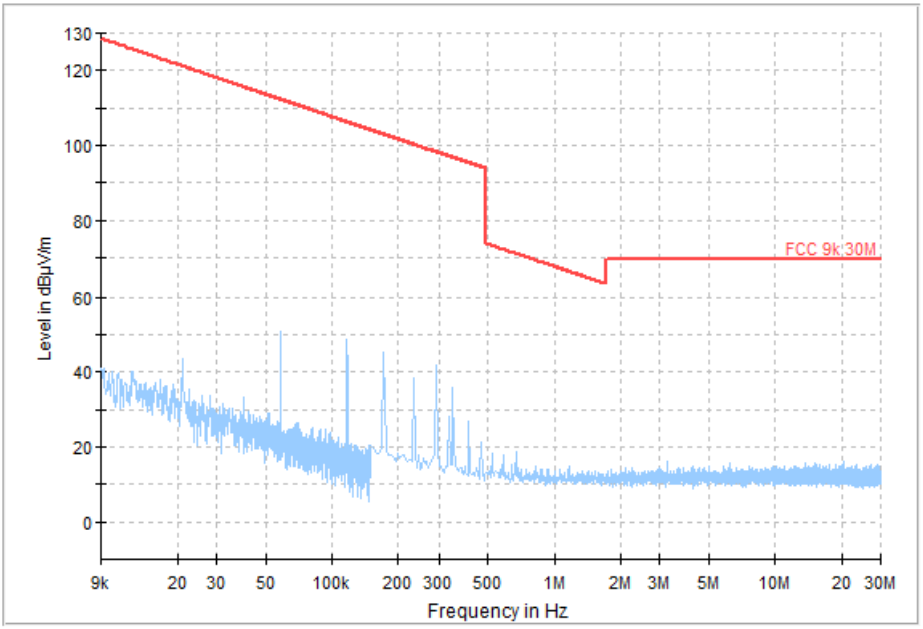

Fig.77 Radiated Spurious Emission (All Channels, 9KHz-30MHz)

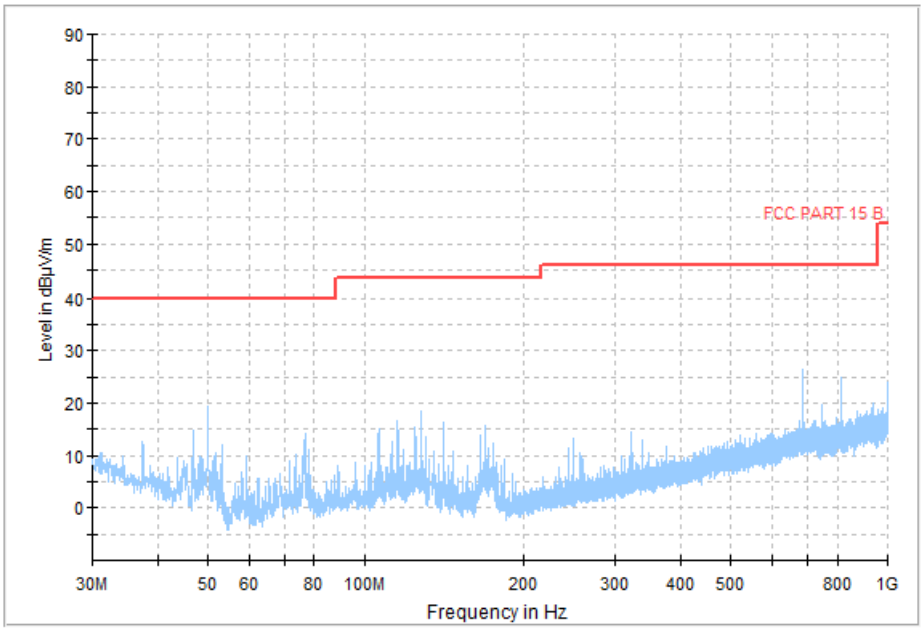

Fig.78 Radiated Spurious Emission (All Channels, 30MHz-1GHz)

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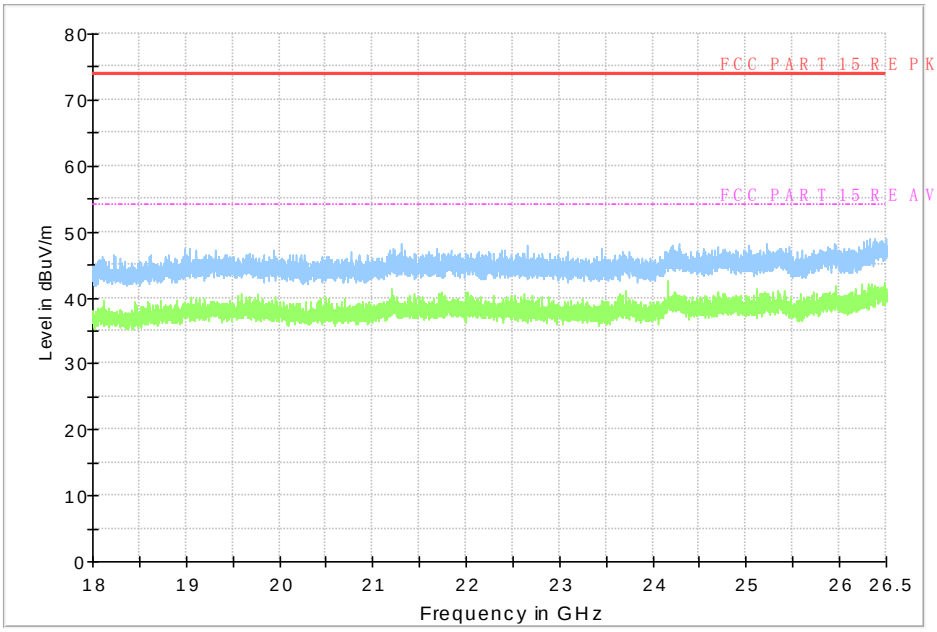

Fig.79 Radiated Spurious Emission (All Channels, 18GHz-26.5GHz)

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A.8 AC Power line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit) - AE3

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.80	Fig.81	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) - AE3

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.80	Fig.81	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.				

WLAN (Quasi-peak Limit) - AE4

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.82	Fig.83	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) - AE4

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.82	Fig.83	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.				

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Test Condition:

Voltage (V)	Frequency (Hz)
240	60

Measurement Result and limit:

WLAN (Quasi-peak Limit) - AE3

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.84	Fig.85	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) - AE3

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.84	Fig.85	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.				

WLAN (Quasi-peak Limit) - AE4

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.86	Fig.87	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) - AE4

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.86	Fig.87	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.

See below for test graphs.

Conclusion: PASS

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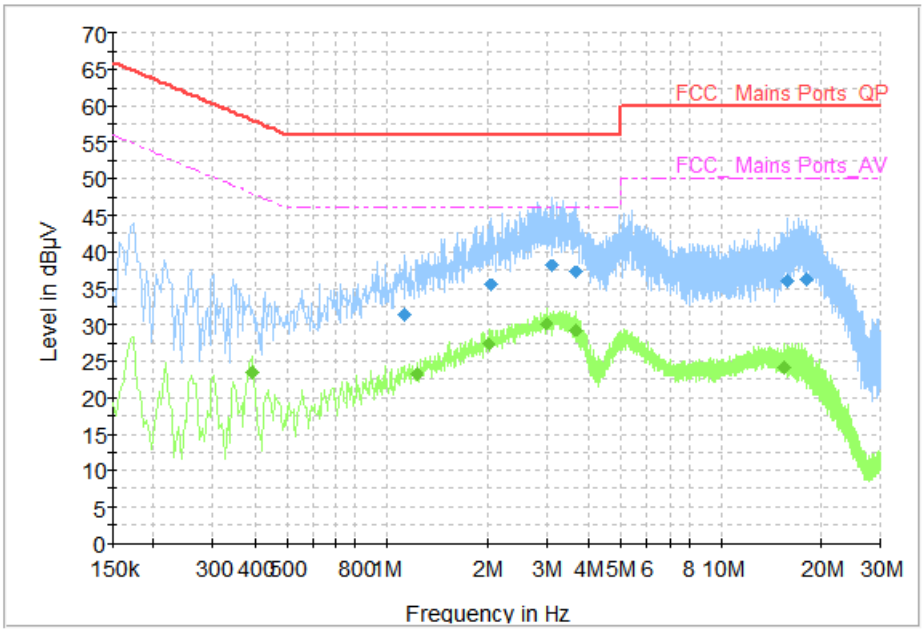

Fig.80 AC Power line Conducted Emission (Traffic, AE3, 120V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.126000	31.38	56.00	24.62	N	ON	9.7
2.042000	35.51	56.00	20.49	N	ON	9.7
3.114000	38.07	56.00	17.93	N	ON	9.7
3.678000	37.24	56.00	18.76	N	ON	9.7
15.850000	35.94	60.00	24.06	L1	ON	10.1
18.146000	36.16	60.00	23.84	L1	ON	10.1

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.394000	23.46	47.98	24.52	N	ON	9.6
1.226000	23.27	46.00	22.73	L1	ON	9.7
2.018000	27.25	46.00	18.75	L1	ON	9.7
2.986000	30.13	46.00	15.87	L1	ON	9.7
3.670000	29.31	46.00	16.69	L1	ON	9.7
15.434000	24.22	50.00	25.78	L1	ON	10.1

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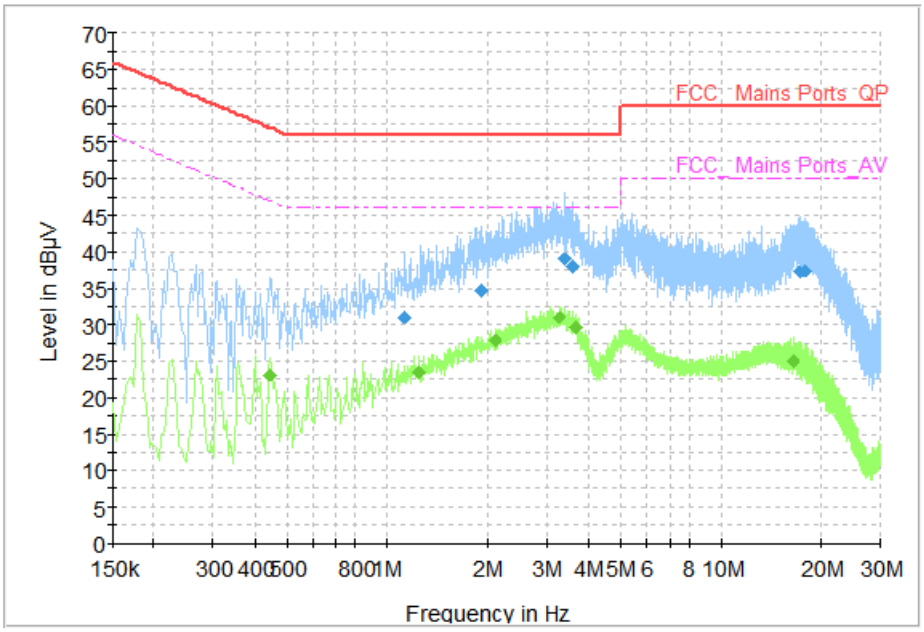

Fig.81 AC Power line Conducted Emission (Idle, AE3, 120V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.134000	31.10	56.00	24.90	N	ON	9.7
1.906000	34.76	56.00	21.24	N	ON	9.7
3.402000	38.99	56.00	17.01	N	ON	9.7
3.622000	37.87	56.00	18.13	N	ON	9.7
17.226000	37.20	60.00	22.80	L1	ON	10.1
17.750000	37.40	60.00	22.60	L1	ON	10.1

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.446000	23.17	46.95	23.78	L1	ON	9.7
1.246000	23.41	46.00	22.59	L1	ON	9.7
2.106000	27.90	46.00	18.10	L1	ON	9.7
3.282000	30.95	46.00	15.05	L1	ON	9.7
3.674000	29.64	46.00	16.36	L1	ON	9.7
16.374000	25.07	50.00	24.93	L1	ON	10.1

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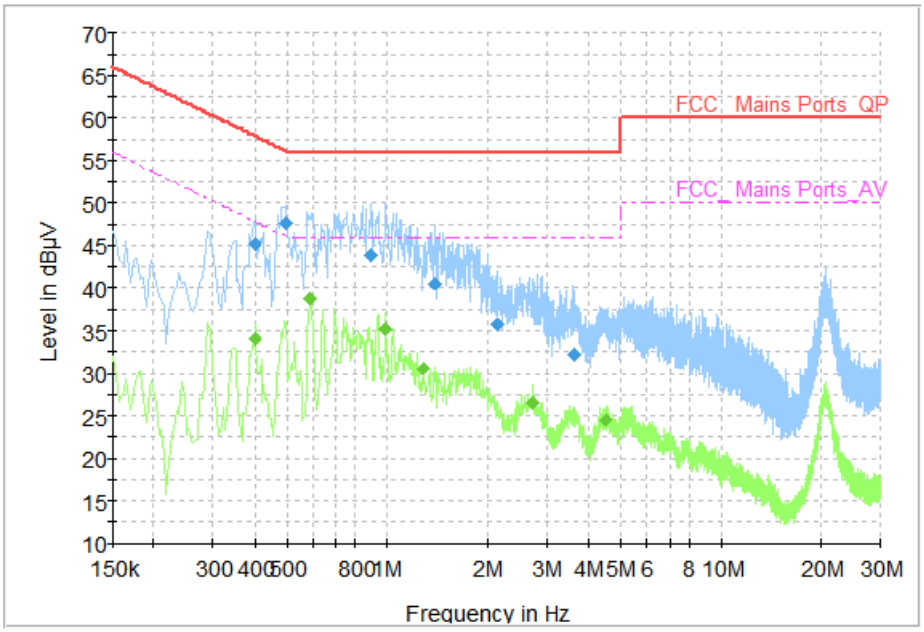

Fig.82 AC Power line Conducted Emission (Traffic, AE4, 120V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402000	45.18	57.81	12.63	L1	ON	9.7
0.494000	47.62	56.10	8.48	L1	ON	9.7
0.894000	43.80	56.00	12.20	L1	ON	9.7
1.390000	40.55	56.00	15.45	L1	ON	9.7
2.134000	35.66	56.00	20.34	L1	ON	9.7
3.638000	32.15	56.00	23.85	N	ON	9.7

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402000	34.02	47.81	13.79	L1	ON	9.7
0.586000	38.73	46.00	7.27	L1	ON	9.7
0.994000	35.24	46.00	10.76	L1	ON	9.7
1.282000	30.55	46.00	15.45	L1	ON	9.7
2.730000	26.44	46.00	19.56	L1	ON	9.7
4.522000	24.56	46.00	21.44	L1	ON	9.8

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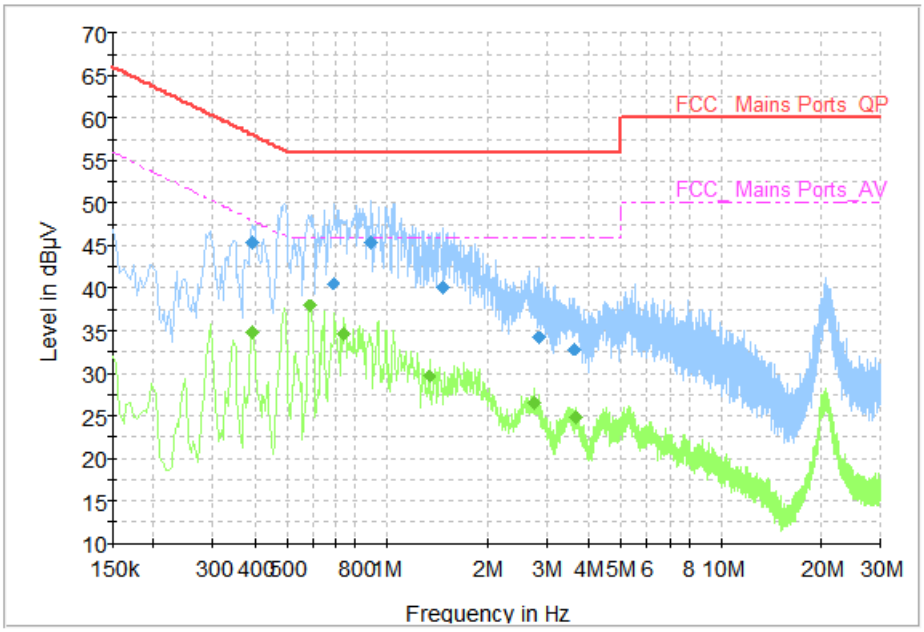

Fig.83 AC Power line Conducted Emission (Idle, AE4, 120V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.394000	45.37	57.98	12.61	L1	ON	9.7
0.690000	40.51	56.00	15.49	N	ON	9.7
0.894000	45.35	56.00	10.65	L1	ON	9.7
1.466000	40.02	56.00	15.98	L1	ON	9.7
2.830000	34.22	56.00	21.78	L1	ON	9.7
3.642000	32.75	56.00	23.25	L1	ON	9.7

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.394000	34.84	47.98	13.14	L1	ON	9.7
0.586000	37.93	46.00	8.07	L1	ON	9.7
0.742000	34.68	46.00	11.32	L1	ON	9.7
1.338000	29.64	46.00	16.36	N	ON	9.7
2.774000	26.48	46.00	19.52	L1	ON	9.7
3.678000	24.79	46.00	21.21	L1	ON	9.7

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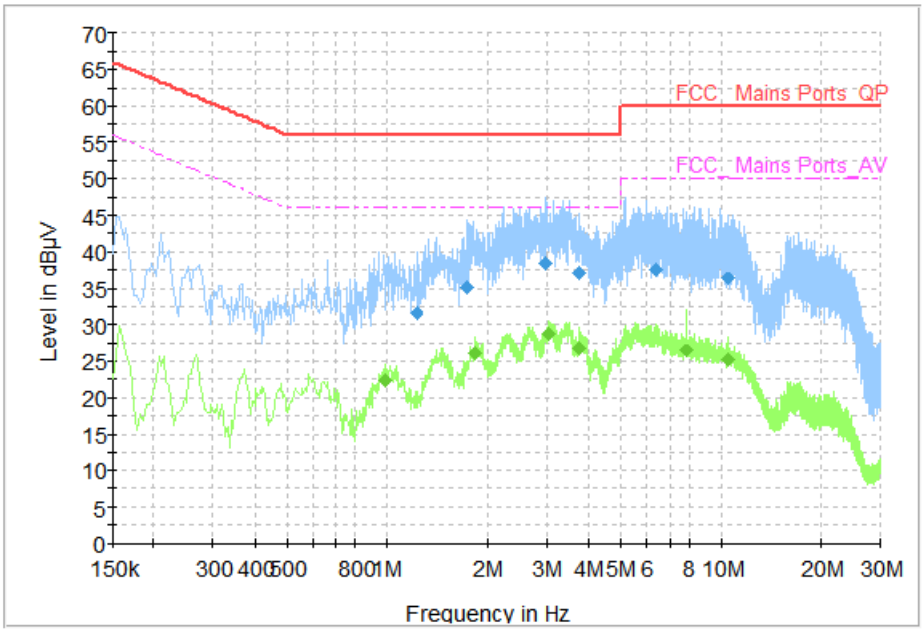

Fig.84 AC Power line Conducted Emission (Traffic, AE3, 240V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.230000	31.58	56.00	24.42	N	ON	9.7
1.726000	35.07	56.00	20.93	N	ON	9.7
2.966000	38.48	56.00	17.52	N	ON	9.7
3.770000	37.11	56.00	18.89	N	ON	9.7
6.354000	37.62	60.00	22.38	N	ON	9.8
10.430000	36.27	60.00	23.73	N	ON	9.8

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.986000	22.33	46.00	23.67	L1	ON	9.7
1.826000	26.02	46.00	19.98	L1	ON	9.7
3.042000	28.68	46.00	17.32	L1	ON	9.7
3.754000	26.72	46.00	19.28	L1	ON	9.7
7.874000	26.52	50.00	23.48	L1	ON	9.8
10.430000	25.16	50.00	24.84	N	ON	9.8

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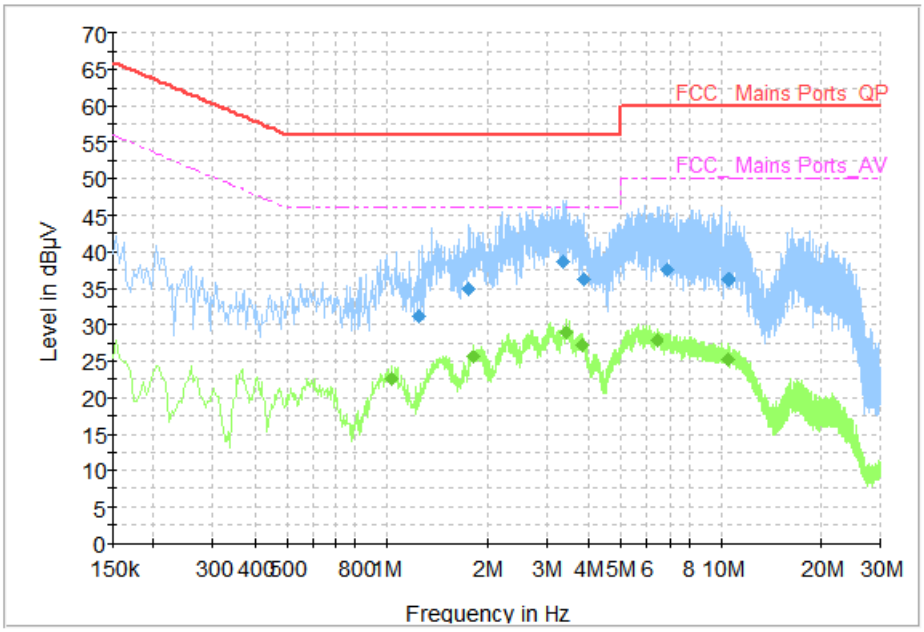

Fig.85 AC Power line Conducted Emission (Idle, AE3, 240V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.242000	31.24	56.00	24.76	N	ON	9.7
1.750000	34.95	56.00	21.05	N	ON	9.7
3.362000	38.58	56.00	17.42	N	ON	9.7
3.862000	36.08	56.00	19.92	N	ON	9.7
6.898000	37.52	60.00	22.48	N	ON	9.8
10.538000	36.15	60.00	23.85	N	ON	9.8

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
1.038000	22.49	46.00	23.51	L1	ON	9.7
1.802000	25.53	46.00	20.47	L1	ON	9.7
3.450000	28.87	46.00	17.13	L1	ON	9.7
3.842000	27.10	46.00	18.90	L1	ON	9.7
6.414000	27.94	50.00	22.06	N	ON	9.8
10.422000	25.21	50.00	24.79	N	ON	9.8

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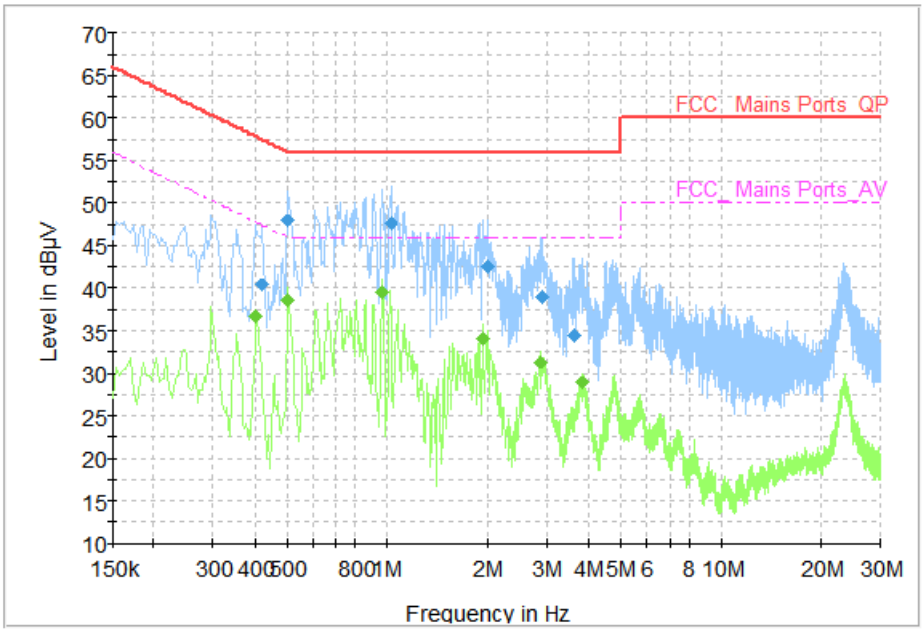

Fig.86 AC Power line Conducted Emission (Traffic, AE4, 240V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.422000	40.40	57.41	17.01	L1	ON	9.7
0.506000	47.99	56.00	8.01	L1	ON	9.7
1.026000	47.63	56.00	8.37	L1	ON	9.7
1.994000	42.54	56.00	13.46	L1	ON	9.7
2.918000	38.96	56.00	17.04	L1	ON	9.7
3.638000	34.42	56.00	21.58	L1	ON	9.7

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.406000	36.68	47.73	11.05	L1	ON	9.7
0.506000	38.63	46.00	7.37	L1	ON	9.7
0.966000	39.43	46.00	6.57	L1	ON	9.7
1.934000	33.99	46.00	12.01	L1	ON	9.7
2.886000	31.33	46.00	14.67	L1	ON	9.7
3.846000	28.86	46.00	17.14	L1	ON	9.7

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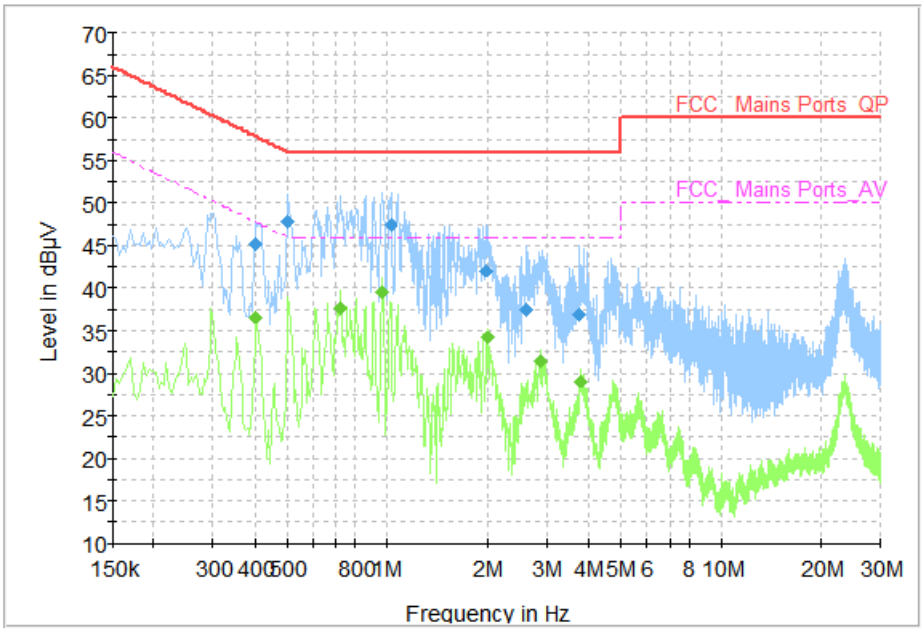

Fig.87 AC Power line Conducted Emission (Idle, AE4, 240V)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.406000	45.19	57.73	12.54	L1	ON	9.7
0.506000	47.83	56.00	8.17	L1	ON	9.7
1.026000	47.45	56.00	8.55	L1	ON	9.7
1.978000	42.00	56.00	14.00	L1	ON	9.7
2.602000	37.53	56.00	18.47	L1	ON	9.7
3.786000	36.93	56.00	19.07	L1	ON	9.7

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.406000	36.54	47.73	11.18	L1	ON	9.7
0.726000	37.66	46.00	8.34	L1	ON	9.7
0.966000	39.46	46.00	6.54	L1	ON	9.7
1.994000	34.15	46.00	11.85	L1	ON	9.7
2.902000	31.40	46.00	14.60	L1	ON	9.7
3.806000	29.01	46.00	16.99	L1	ON	9.7

*****END OF REPORT*****

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