

Fig. 42 Conducted Spurious Emission (802.11n-HT20, Chain1, Ch165, 1 GHz -12 GHz)

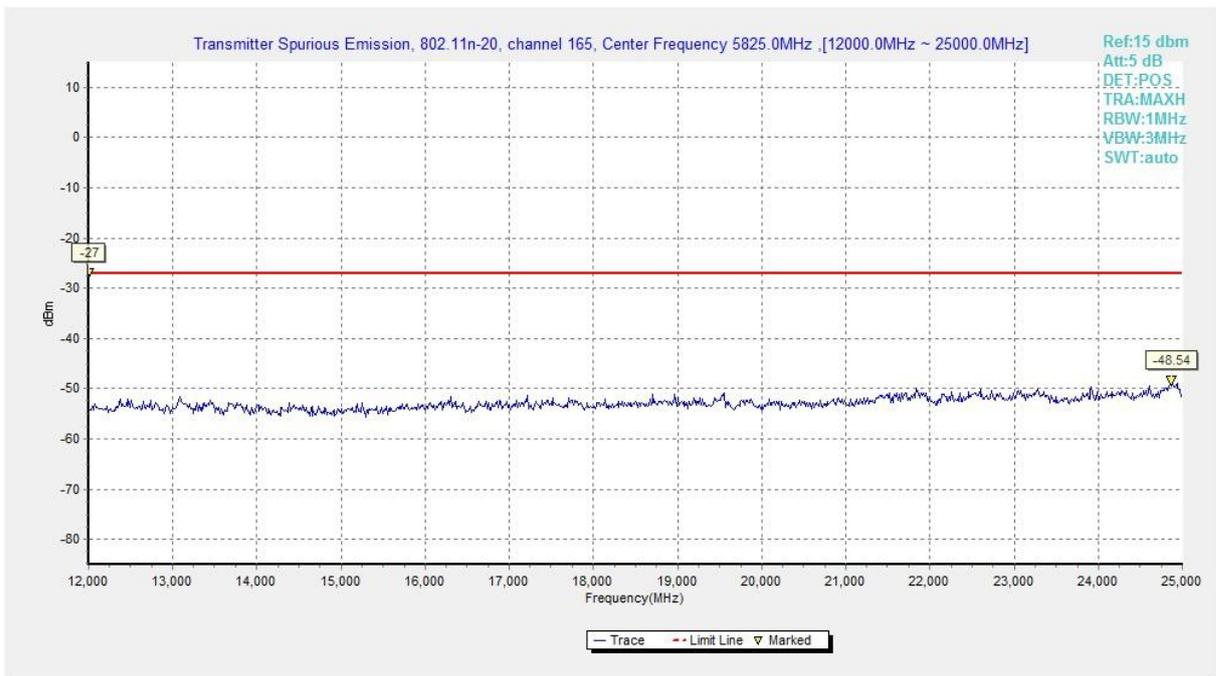


Fig. 43 Conducted Spurious Emission (802.11n-HT20, Chain1, Ch165, 12 GHz-25 GHz)

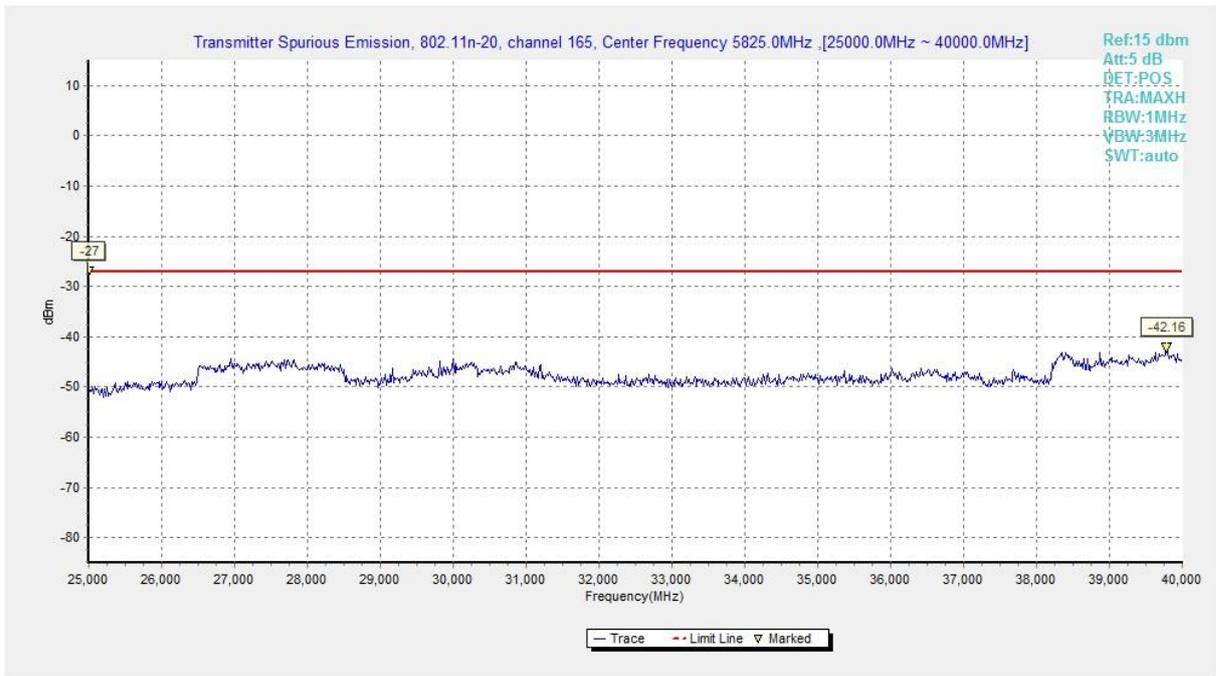
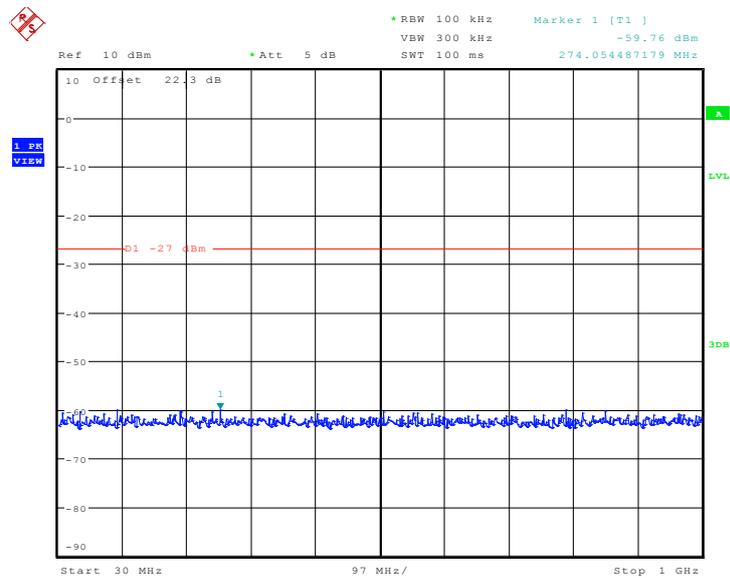


Fig. 44 Conducted Spurious Emission (802.11n-HT20, Chain1, Ch165, 25 GHz-40 GHz)



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Fig. 45 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch151, 30 MHz-1 GHz)

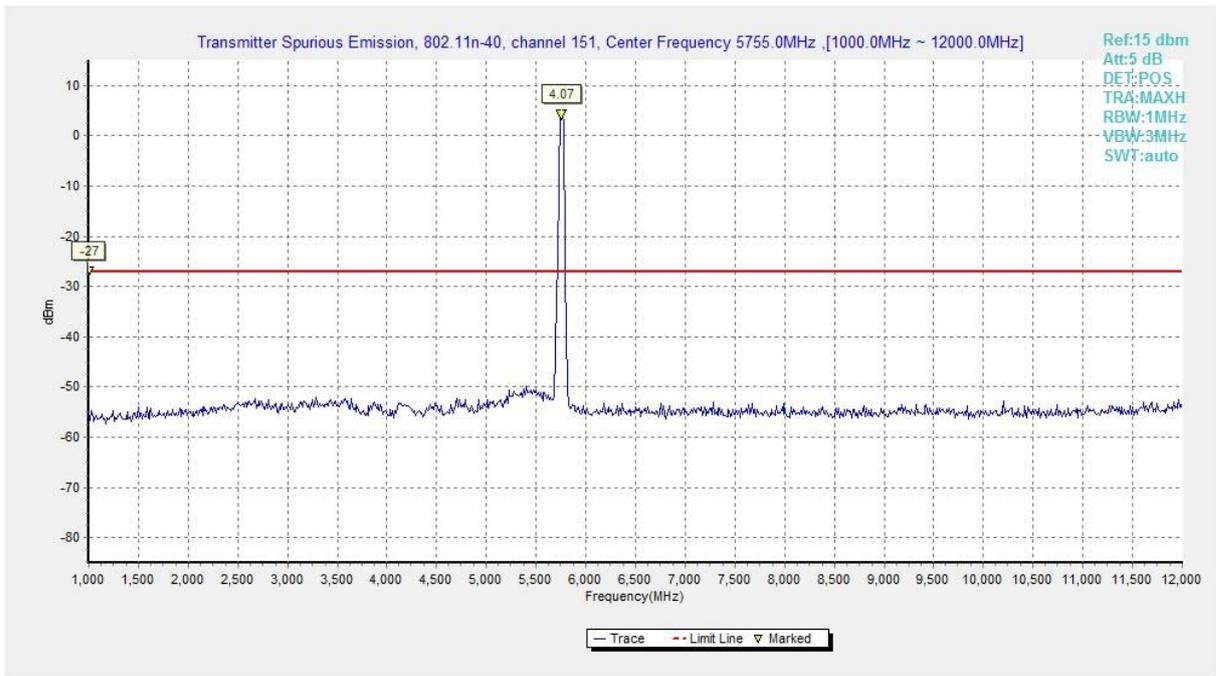


Fig. 46 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch151, 1 GHz -12 GHz)

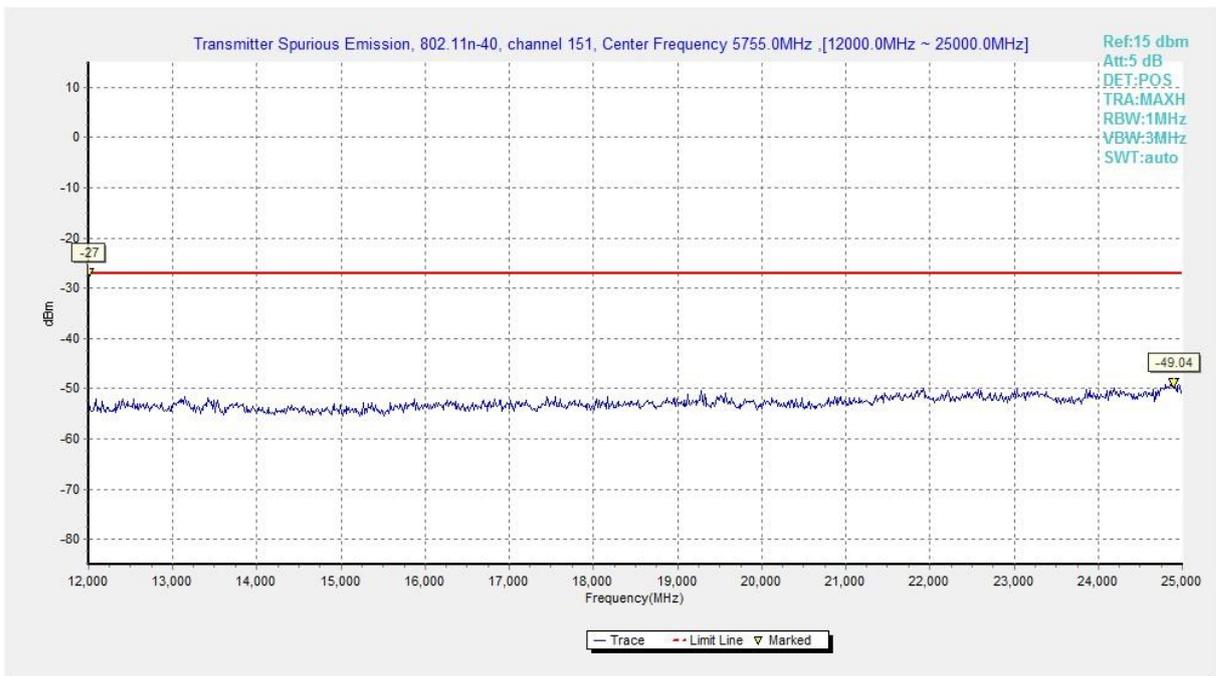


Fig. 47 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch151, 12 GHz-25 GHz)

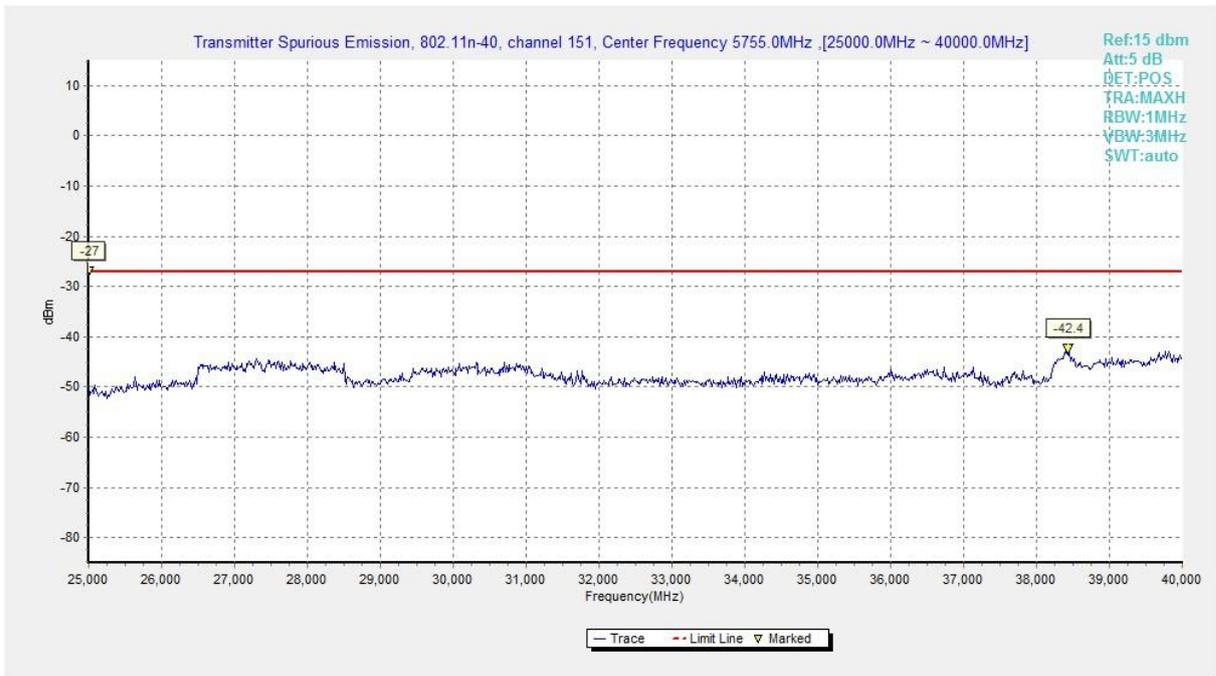
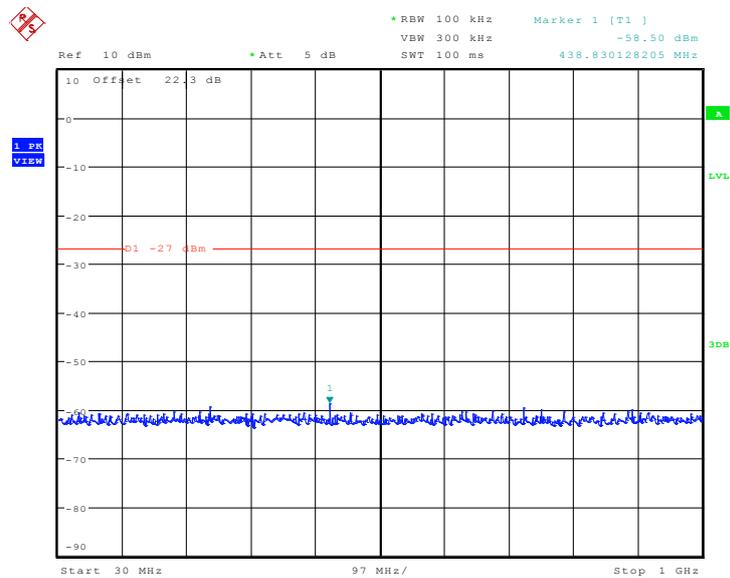


Fig. 48 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch151, 25 GHz-40 GHz)



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Fig. 49 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch159, 30 MHz-1 GHz)

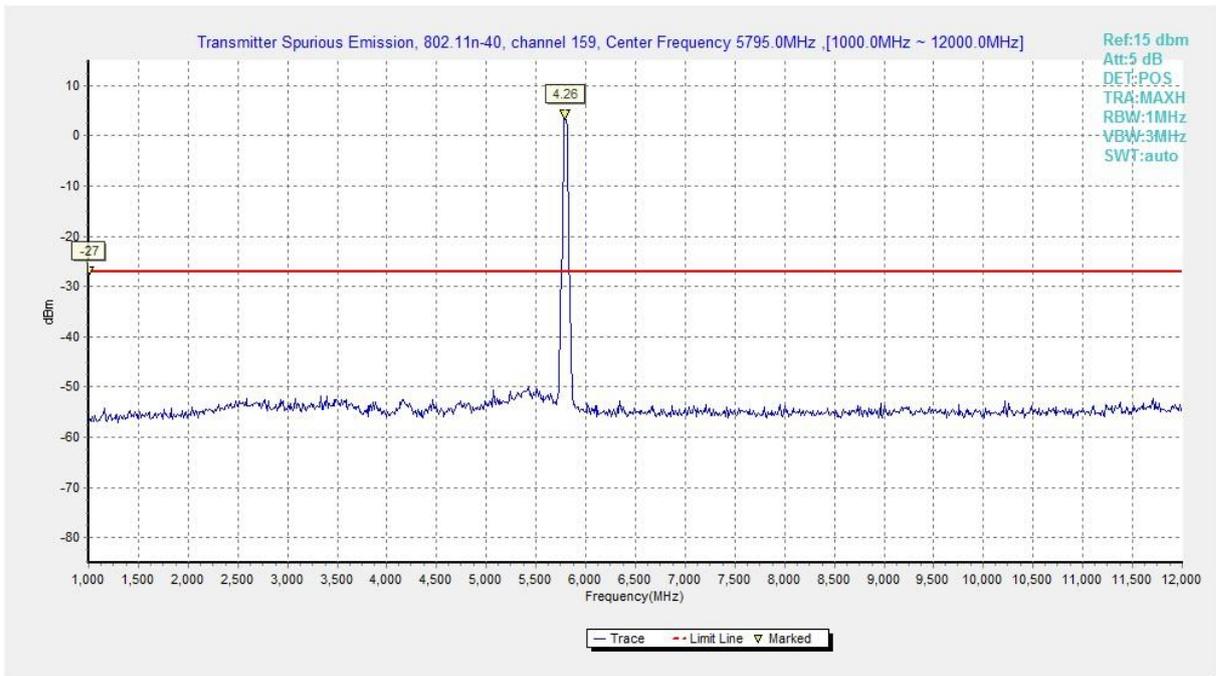


Fig. 50 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch159, 1 GHz -12 GHz)

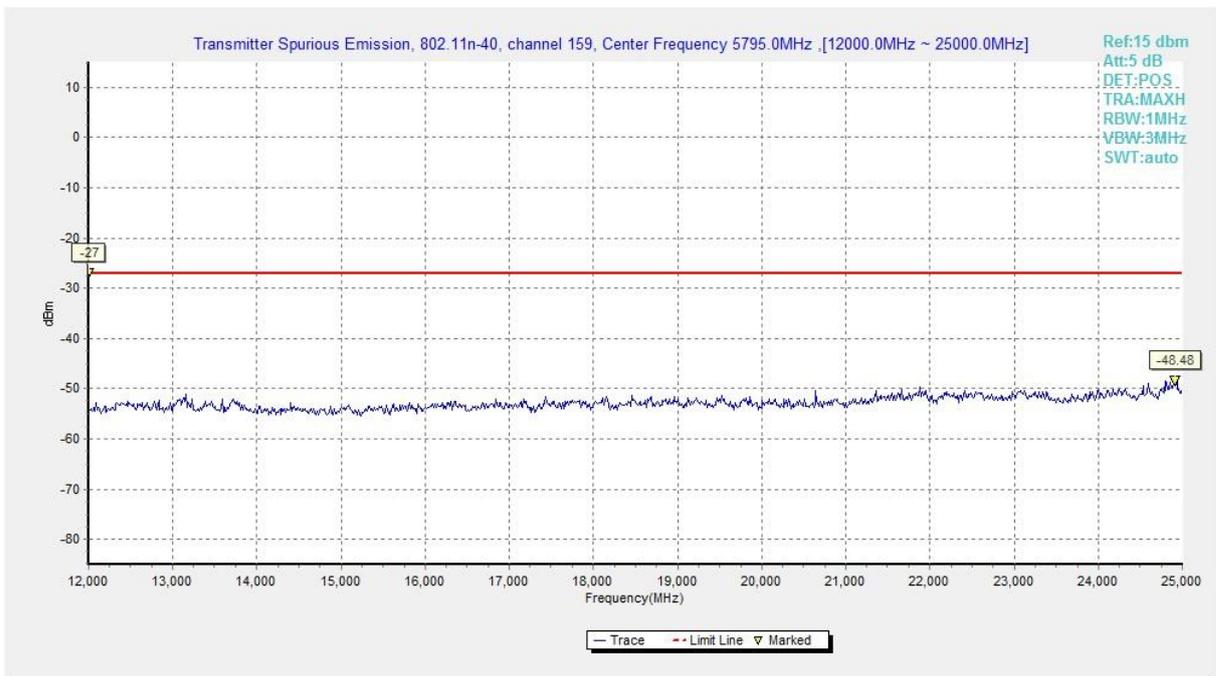


Fig. 51 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch159, 12 GHz-25 GHz)

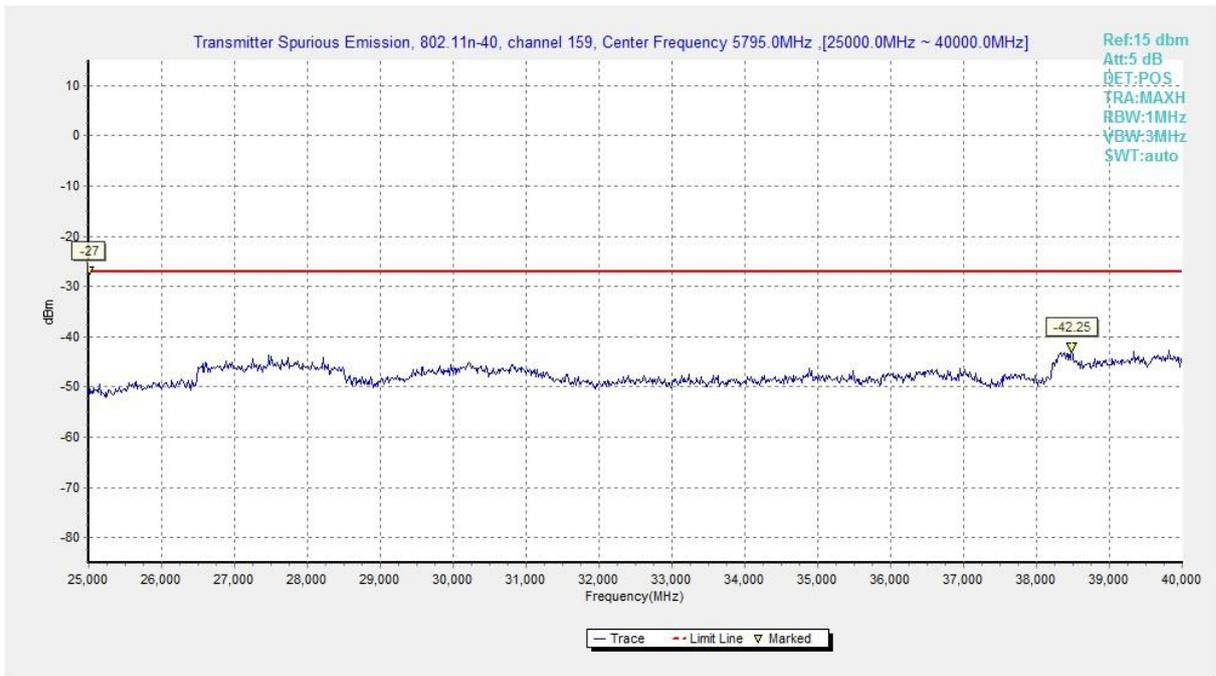
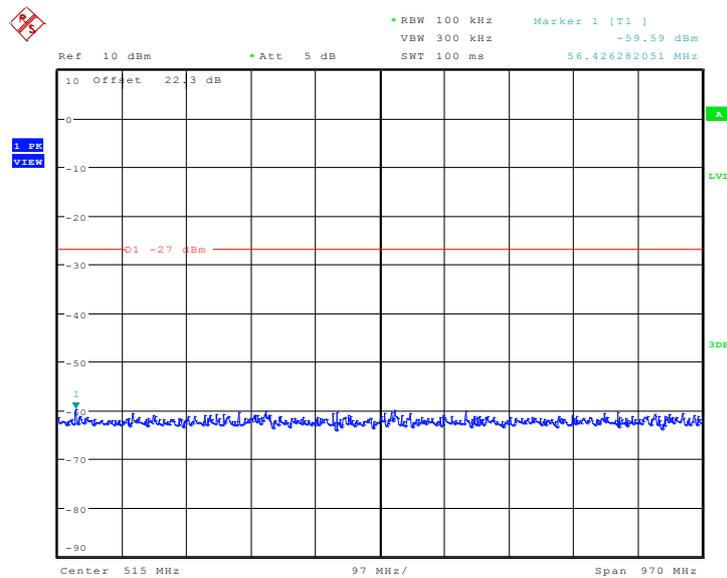


Fig. 52 Conducted Spurious Emission (802.11n-HT40, Chain0,Ch159, 25 GHz-40 GHz)



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Fig. 53 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch151, 30 MHz-1 GHz)

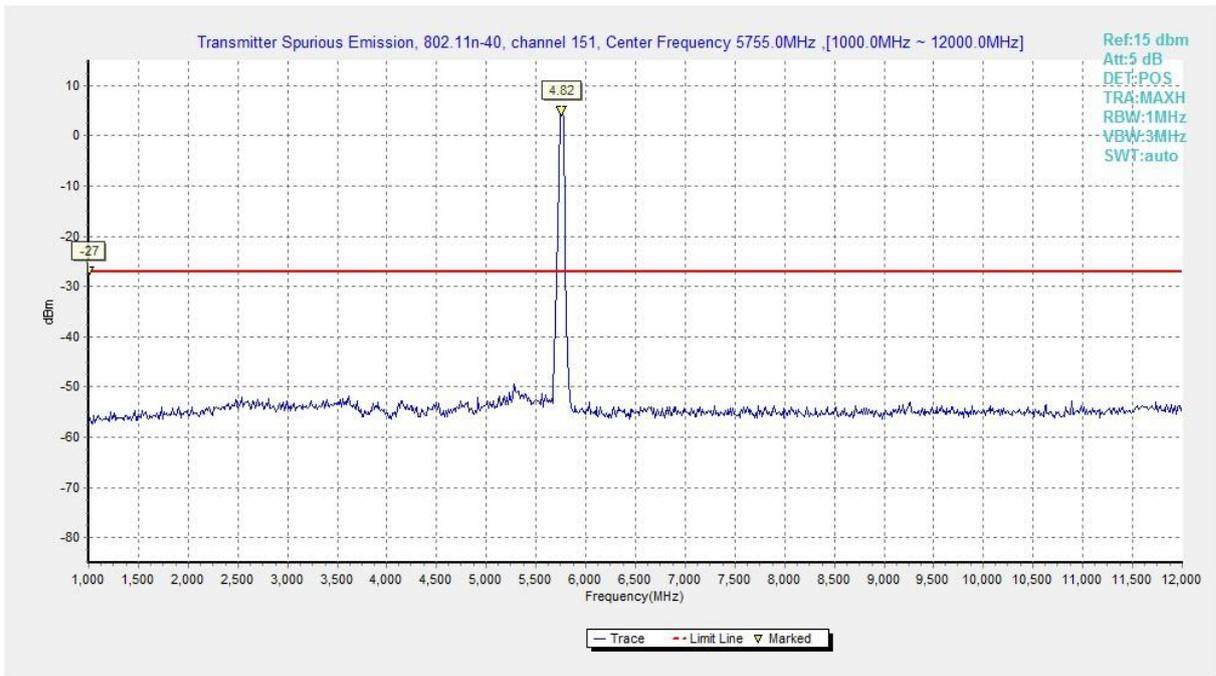


Fig. 54 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch151, 1 GHz -12 GHz)

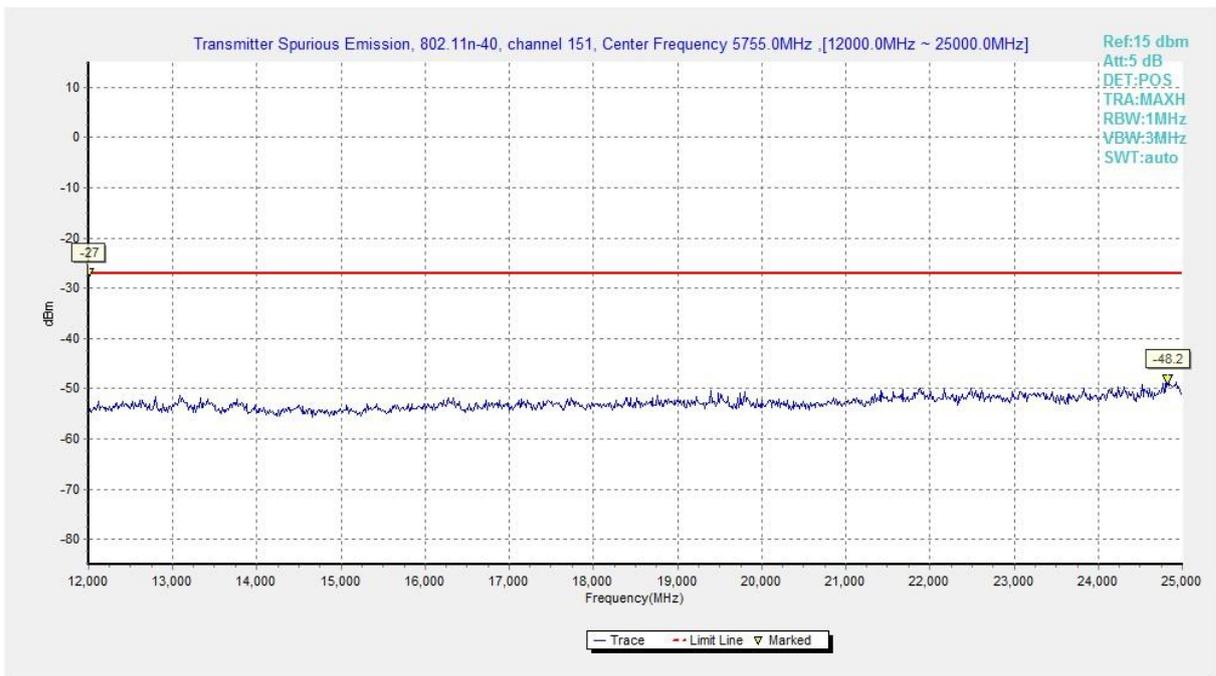


Fig. 55 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch151, 12 GHz-25 GHz)

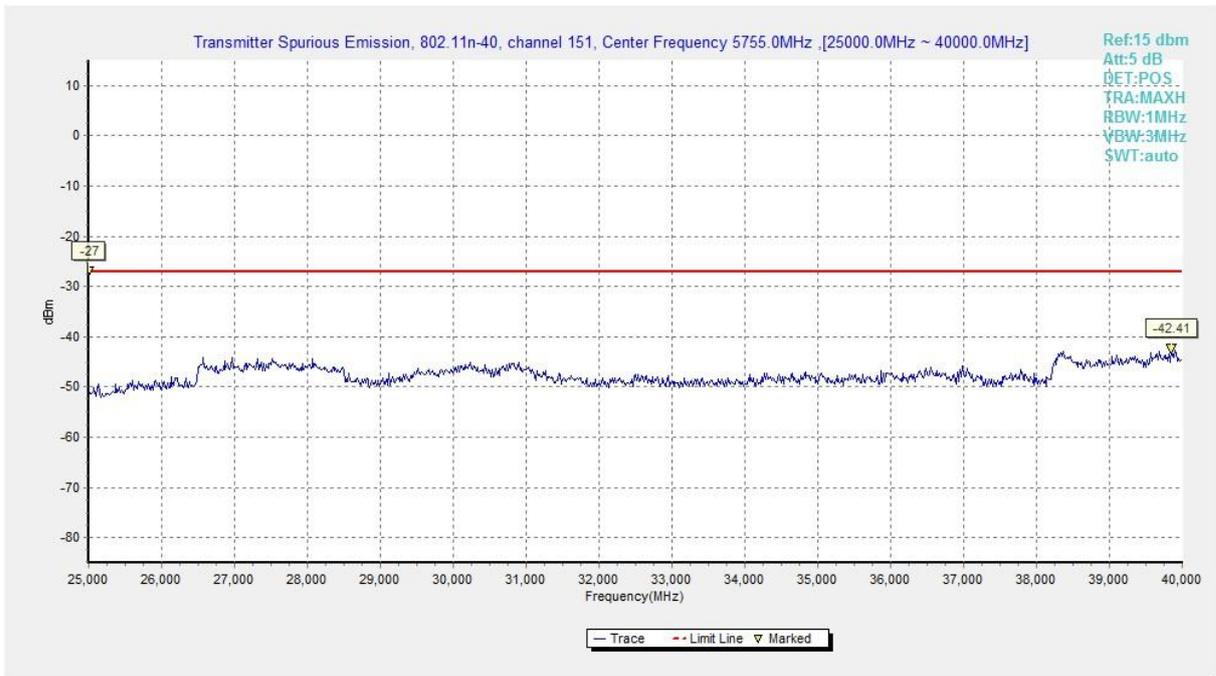
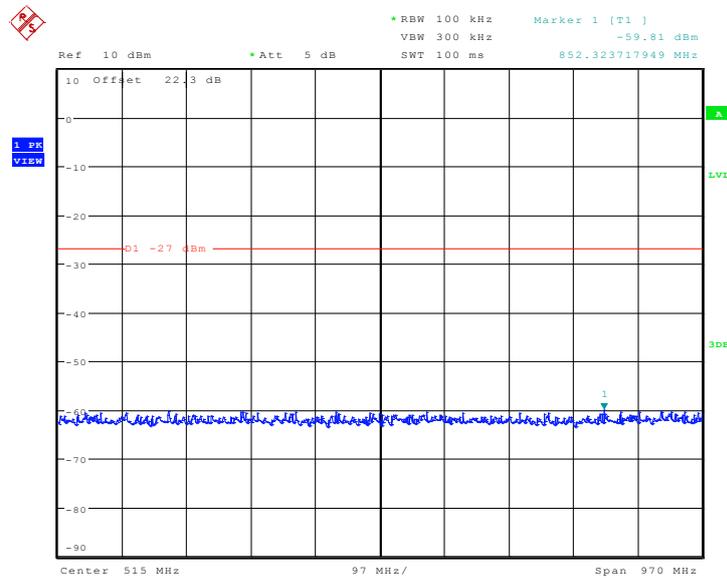


Fig. 56 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch151, 25 GHz-40 GHz)



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Fig. 57 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch159, 30 MHz-1 GHz)

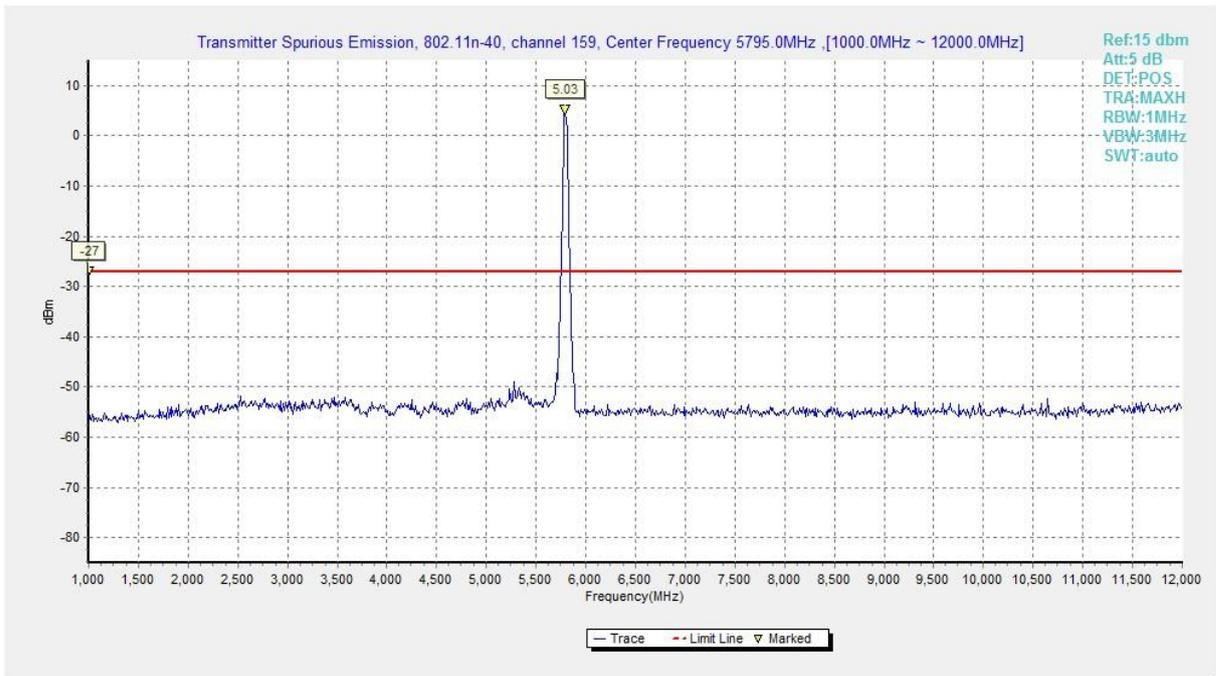


Fig. 58 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch159, 1 GHz -12 GHz)

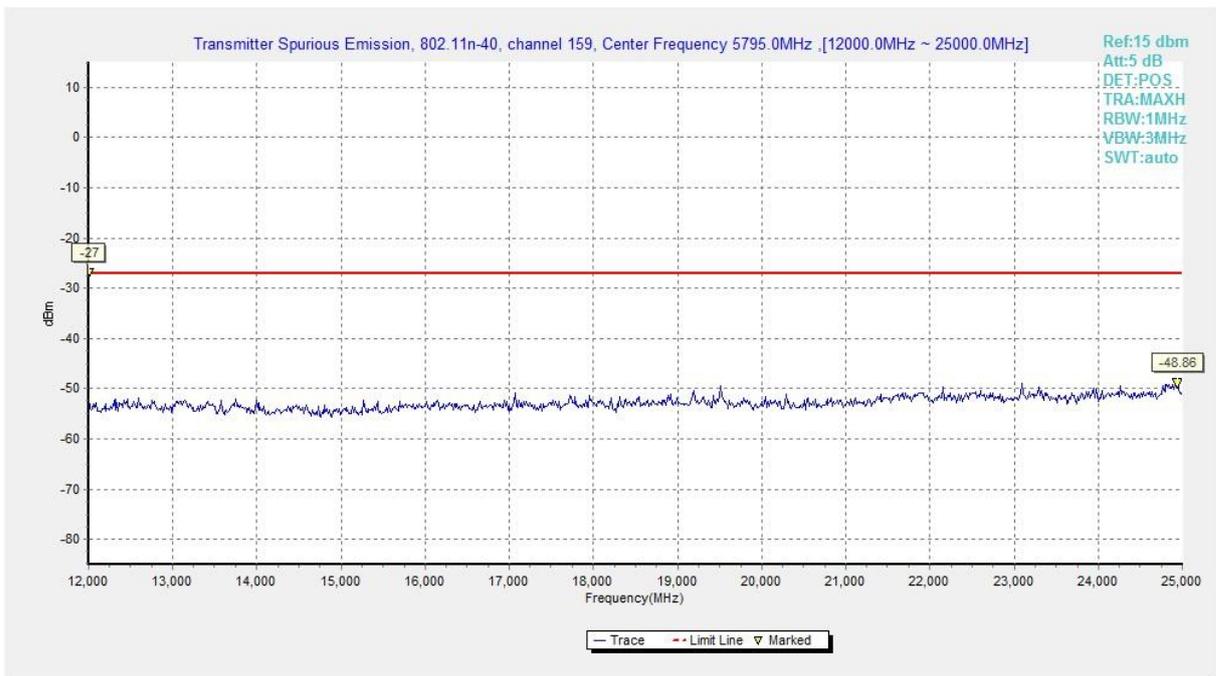


Fig. 59 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch159, 12 GHz-25 GHz)

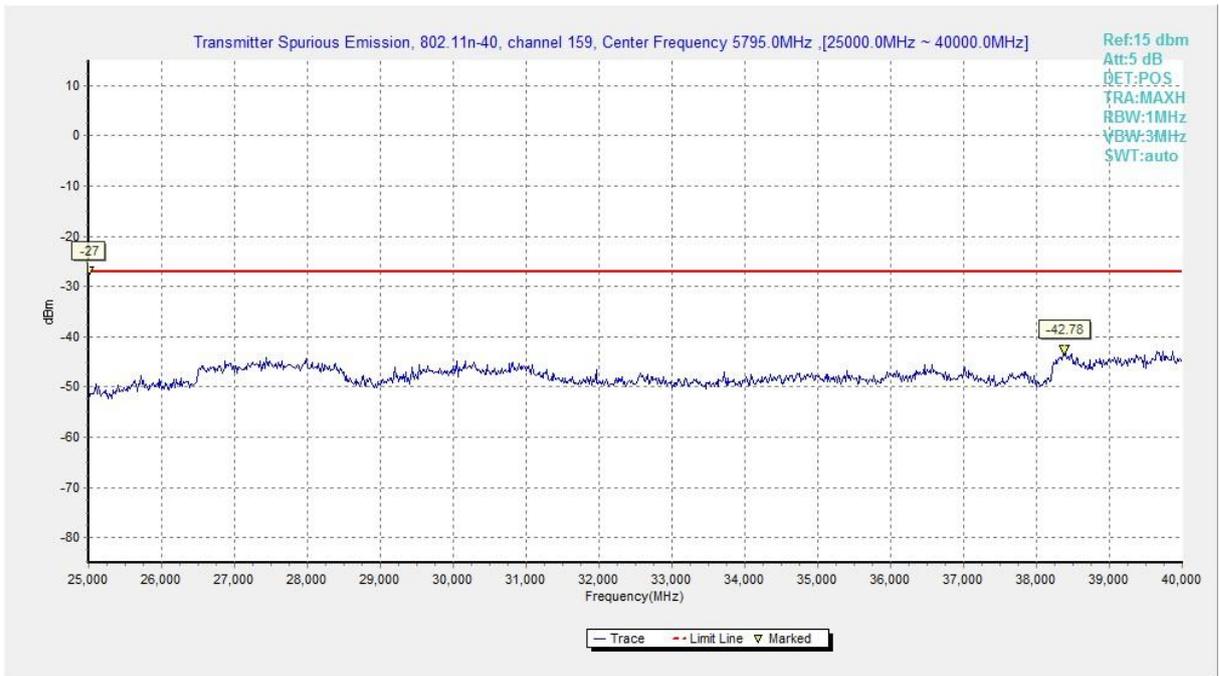


Fig. 60 Conducted Spurious Emission (802.11n-HT40, Chain1,Ch159, 25 GHz-40 GHz)

A.5.2 Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
f ≤ 1GHz	3.9
f > 1GHz	4.3

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	1 GHz ~ 3 GHz	Fig.61	P
		3 GHz ~ 6 GHz	Fig.62	P
		6 GHz ~ 18 GHz	Fig.63	P
	157	30 MHz ~ 1 GHz	Fig.64	P
		1 GHz ~ 3 GHz	Fig.65	P
		3 GHz ~ 6 GHz	Fig.66	P
		6 GHz ~ 18 GHz	Fig.67	P
		18 GHz ~ 26.5 GHz	Fig.68	P
	165	26.5 GHz ~ 40 GHz	Fig.69	P
		1 GHz ~ 3 GHz	Fig.70	P
		3 GHz ~ 6 GHz	Fig.71	P
		6 GHz ~ 18 GHz	Fig.72	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	1 GHz ~ 3 GHz	Fig.73	P
		3 GHz ~ 6 GHz	Fig.74	P
		6 GHz ~ 18 GHz	Fig.75	P
	157	30 MHz ~ 1 GHz	Fig.76	P
		1 GHz ~ 3 GHz	Fig.77	P
		3 GHz ~ 6 GHz	Fig.78	P
		6 GHz ~ 18 GHz	Fig.79	P
		18 GHz ~ 26.5 GHz	Fig.80	P
	165	26.5 GHz ~ 40 GHz	Fig.81	P
		1 GHz ~ 3 GHz	Fig.82	P
		3 GHz ~ 6 GHz	Fig.83	P
		6 GHz ~ 18 GHz	Fig.84	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	Fig.85	P
		1 GHz ~ 3 GHz	Fig.86	P
		3 GHz ~ 6 GHz	Fig.87	P
		6 GHz ~ 18 GHz	Fig.88	P
		18 GHz ~ 26.5 GHz	Fig.89	P
		26.5 GHz~ 40 GHz	Fig.90	P
	159	1 GHz ~ 3 GHz	Fig.91	P
		3 GHz ~ 6 GHz	Fig.92	P
		6 GHz ~ 18 GHz	Fig.93	P

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_{Mea} is the field strength recorded from the instrument.

802.11a

Ch149

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5723.672	70.6	-33.4	34.8	69.238	V
17779.200	56.3	-23.4	41.0	38.672	V
17866.800	56.2	-23.3	41.0	38.533	V
17656.200	55.9	-23.4	41.2	38.072	V
17919.000	55.9	-23.3	41.0	38.233	V
17506.800	55.6	-23.9	41.2	38.253	H

Ch157

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17554.800	56.0	-23.9	41.2	38.653	V
17997.000	55.9	-23.0	41.0	37.947	V
17949.000	55.8	-23.3	41.0	38.133	H
17641.200	55.8	-23.4	41.2	37.972	V
17189.400	55.6	-24.2	41.4	38.385	H
17911.200	55.6	-23.3	41.0	37.933	V

Ch165

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5850.000	58.1	-33.7	34.9	56.865	H
17860.800	56.9	-23.3	41.0	39.233	H
17612.400	56.3	-23.9	41.2	38.953	V
17069.400	56.1	-24.6	41.4	39.315	V
17010.600	56.1	-24.6	41.4	39.315	H
17866.200	56.0	-23.3	41.0	38.333	H

802.11n-HT20

Ch149

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5724.096	69.3	-33.4	34.8	67.938	V
17475.600	56.5	-23.9	41.2	39.153	H
17532.000	55.9	-23.9	41.2	38.553	H
17955.000	55.7	-23.3	41.0	38.033	V
17452.800	55.7	-24.3	41.2	38.769	H
17834.400	55.6	-23.3	41.0	37.933	H

Ch157

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17716.200	56.3	-23.4	41.2	38.472	V
17680.200	56.2	-23.4	41.2	38.372	H
17659.200	55.9	-23.4	41.2	38.072	V
17919.000	55.9	-23.3	41.0	38.233	H
17526.600	55.8	-23.9	41.2	38.453	V
17335.200	55.7	-24.3	41.2	38.769	V

Ch165

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5850.912	55.2	-33.7	34.9	53.965	V
17721.600	55.9	-23.4	41.2	38.072	V
17963.400	55.9	-23.3	41.0	38.233	V
17532.600	55.8	-23.9	41.2	38.453	V
17391.000	55.7	-24.3	41.2	38.769	H
17936.400	55.5	-23.3	41.0	37.833	V

802.11n-HT40

Ch151

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5724.720	57.7	-33.4	34.8	56.338	V
17988.600	56.7	-23.0	41.0	38.747	H
17969.400	56.6	-23.3	41.0	38.933	V
17435.400	55.8	-24.3	41.2	38.869	V
16876.800	55.7	-24.7	41.5	38.947	V
16575.600	55.6	-24.9	41.1	39.447	V

Ch159

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5850.816	65.6	-33.7	34.9	64.365	V
17691.000	55.8	-23.4	41.2	37.972	H
18000.000	55.8	-23.1	40.8	38.134	V
17594.400	55.7	-23.9	41.2	38.353	V
17886.000	55.6	-23.3	41.0	37.933	V
17451.600	55.6	-24.3	41.2	38.669	H

Test graphs as below:

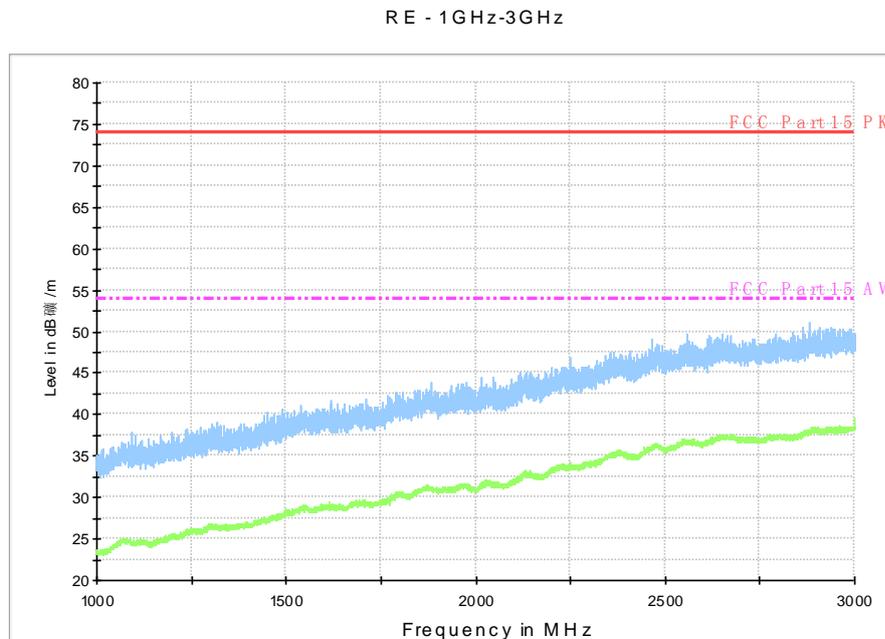


Fig. 61 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-3 GHz)

RE - 3GHz-6GHz

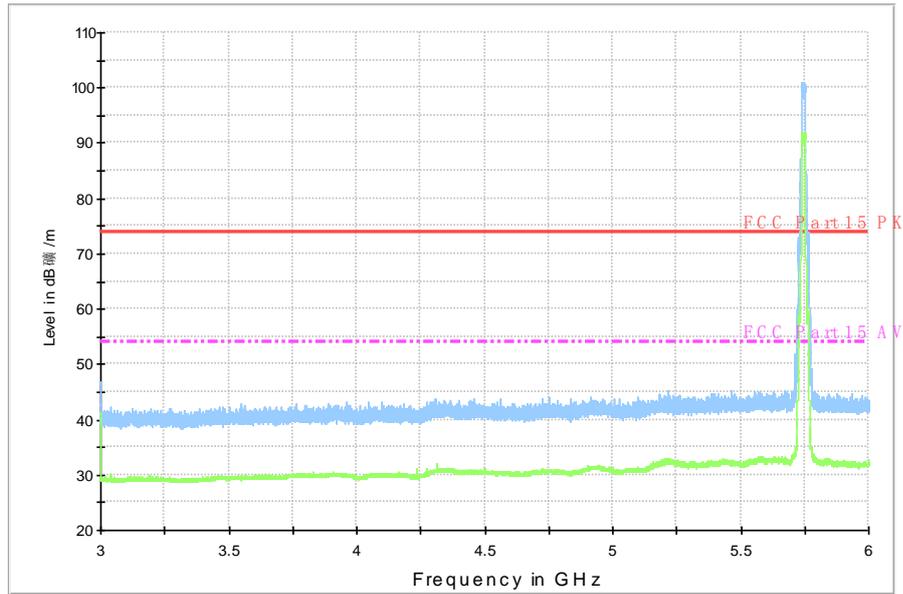


Fig. 62 Radiated Spurious Emission (802.11a, Ch149, 3 GHz-6 GHz)

RE - 6GHz-18GHz

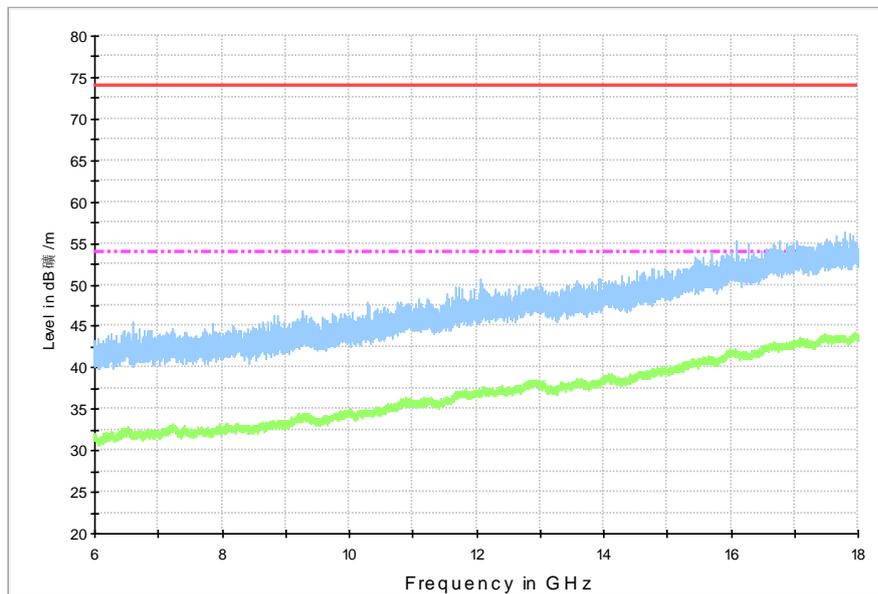


Fig. 63 Radiated Spurious Emission (802.11a, Ch149, 6 GHz-18 GHz)

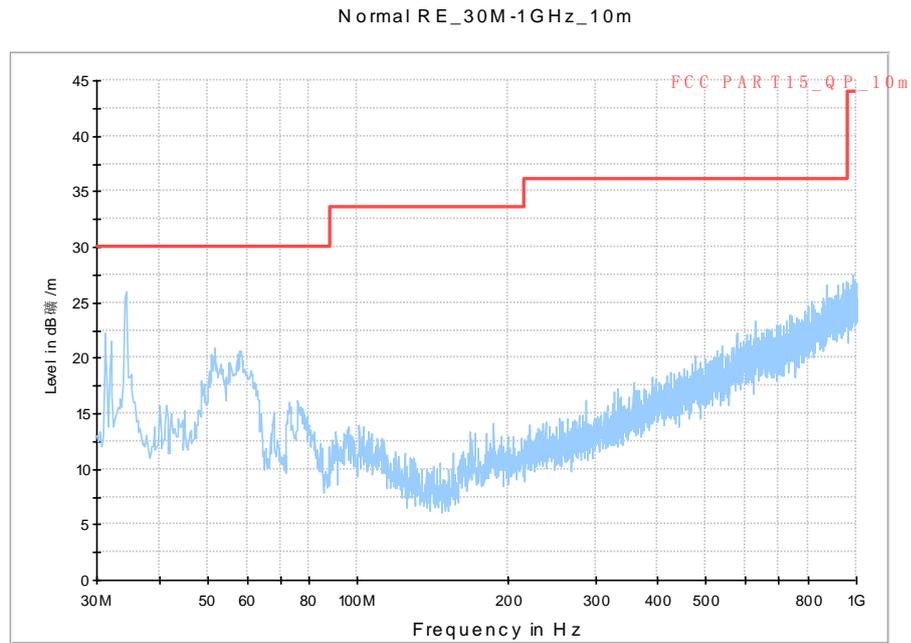


Fig. 64 Radiated Spurious Emission (802.11a, Ch157, 30 MHz-1 GHz)

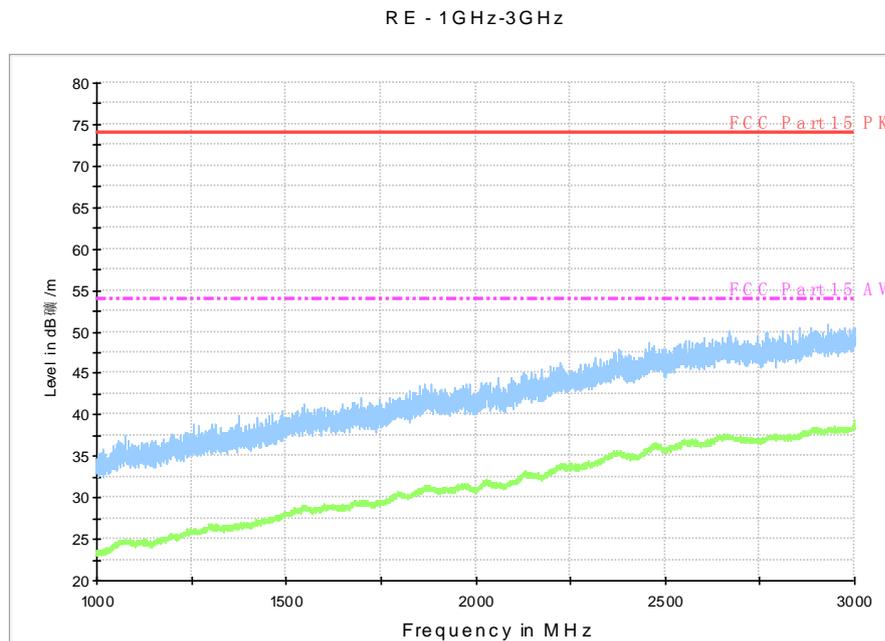


Fig. 65 Radiated Spurious Emission (802.11a, Ch157, 1 GHz-3 GHz)

RE - 3GHz-6GHz

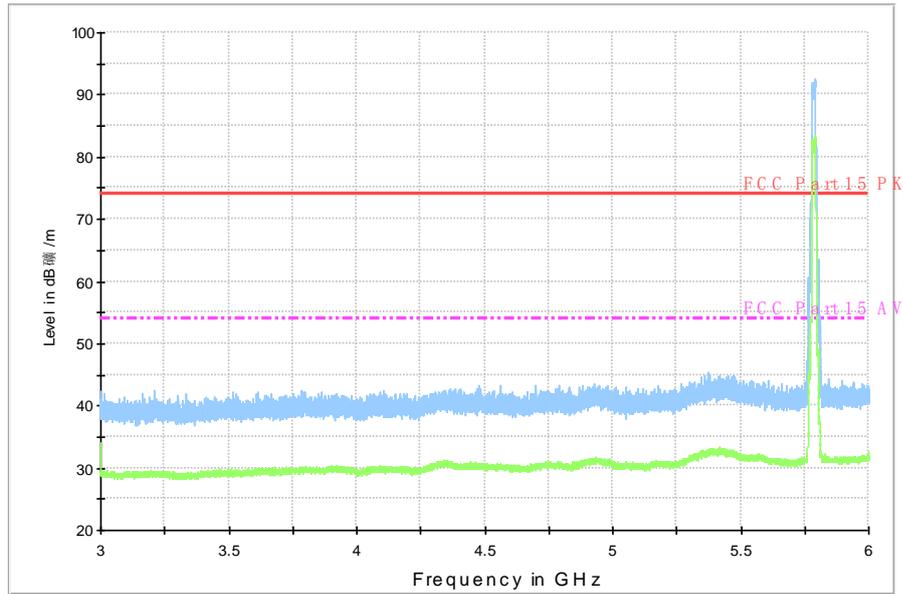


Fig. 66 Radiated Spurious Emission (802.11a, Ch157, 3 GHz-6 GHz)

RE - 6GHz-18GHz

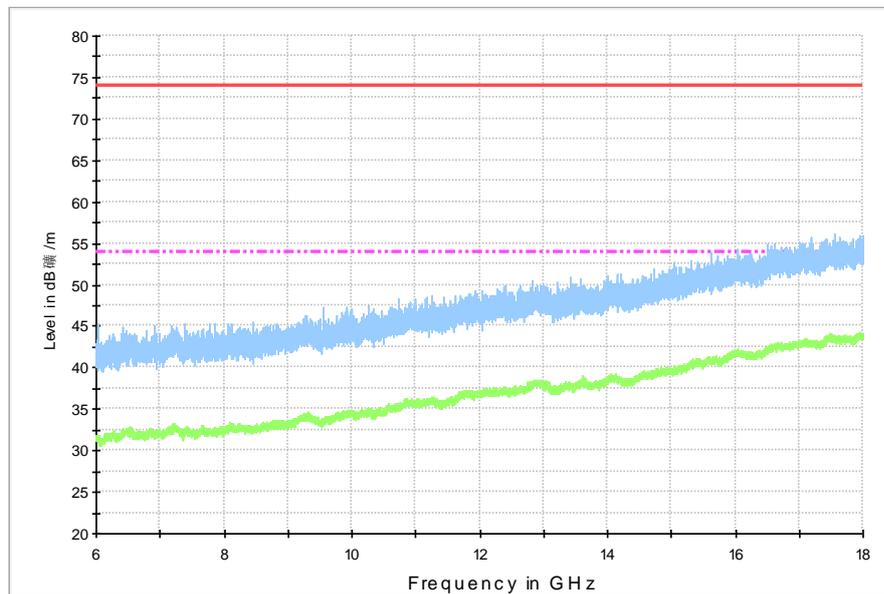


Fig. 67 Radiated Spurious Emission (802.11a, Ch157, 6 GHz-18 GHz)

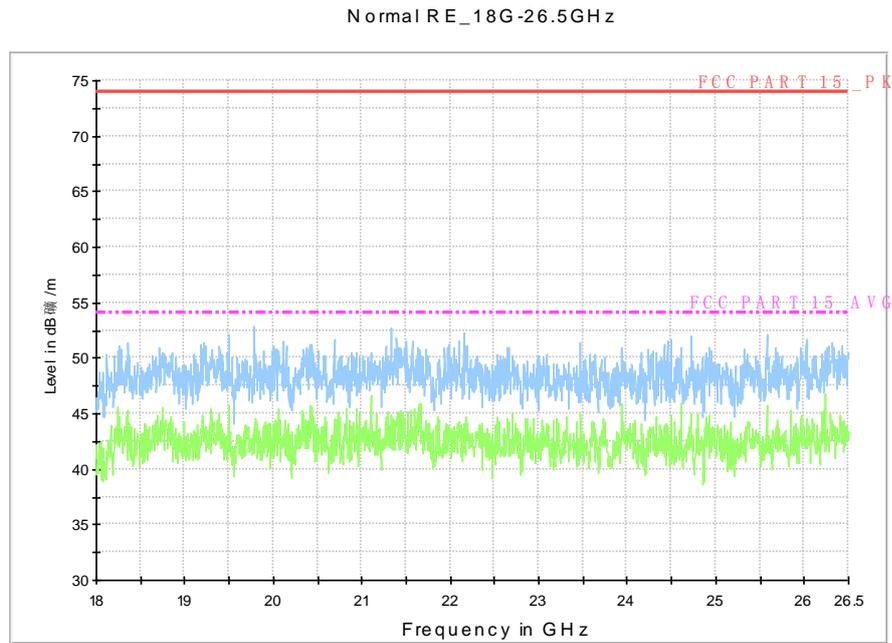


Fig. 68 Radiated Spurious Emission (802.11a, Ch157, 18 GHz-26.5 GHz)

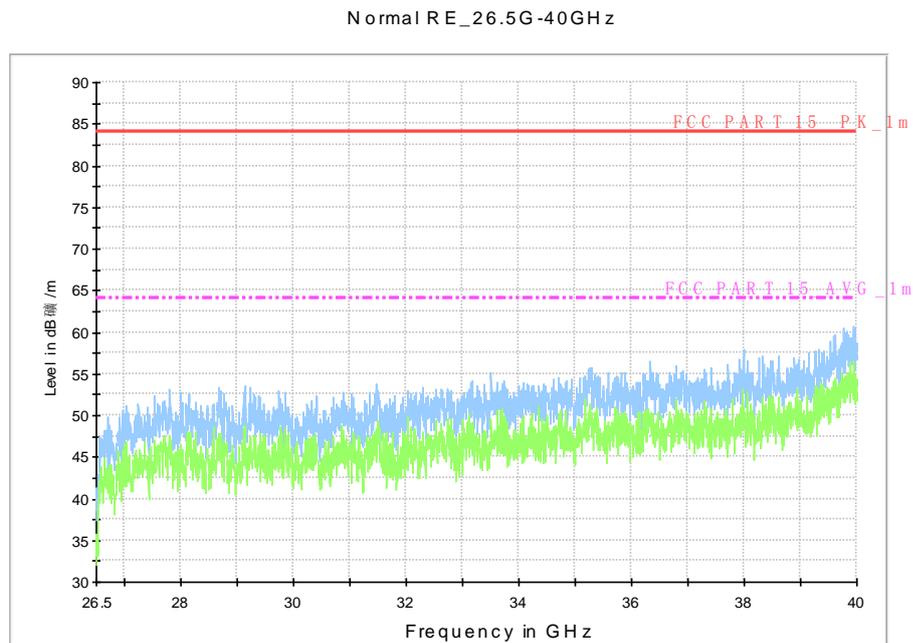


Fig. 69 Radiated emission: 802.11n, (802.11a, Ch157, 26.5 GHz - 40 GHz)

RE - 1GHz-3GHz

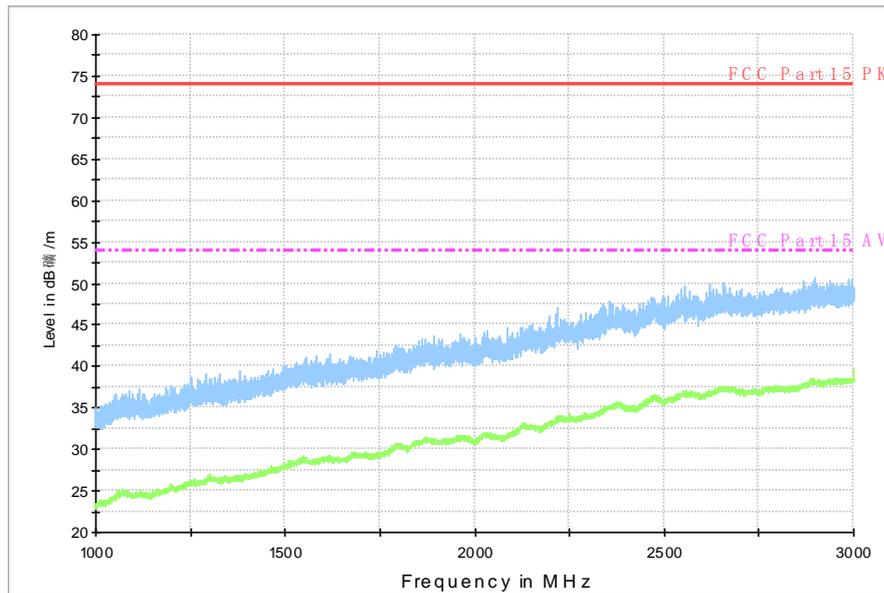


Fig. 70 Radiated Spurious Emission (802.11a, Ch165, 1 GHz-3 GHz)

RE - 3GHz-6GHz

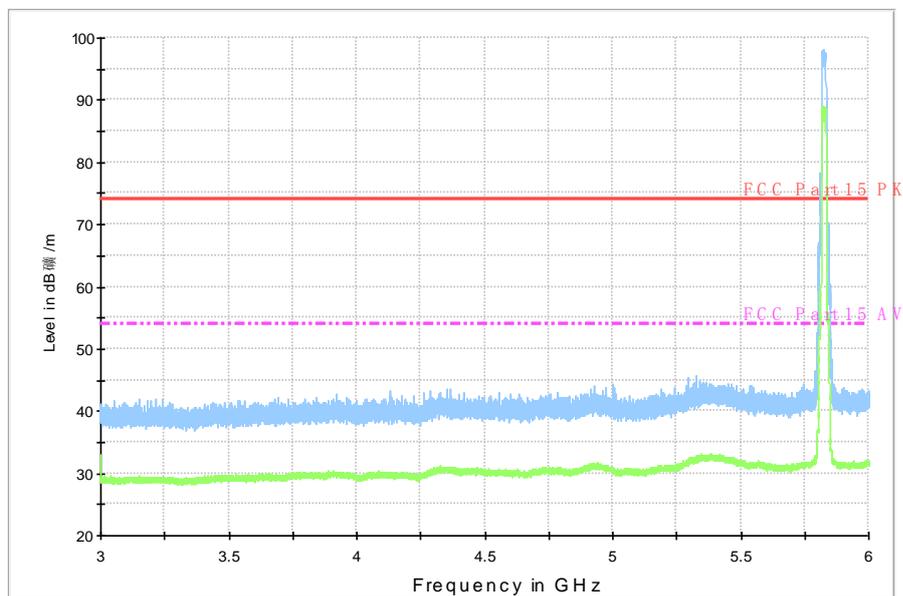


Fig. 71 Radiated Spurious Emission (802.11a, Ch165, 3 GHz-6 GHz)

RE - 6GHz-18GHz

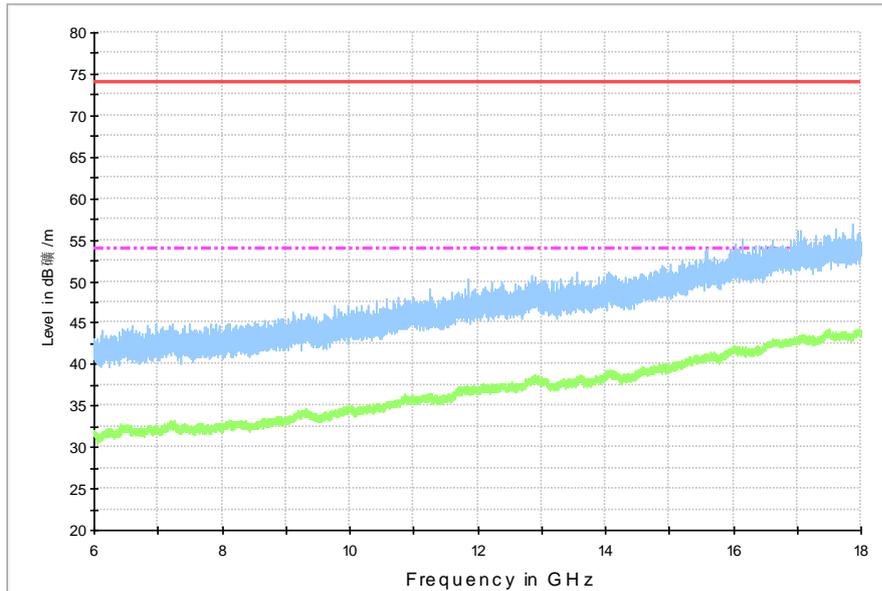


Fig. 72 Radiated Spurious Emission (802.11a, Ch165, 6 GHz-18 GHz)

RE - 1GHz-3GHz

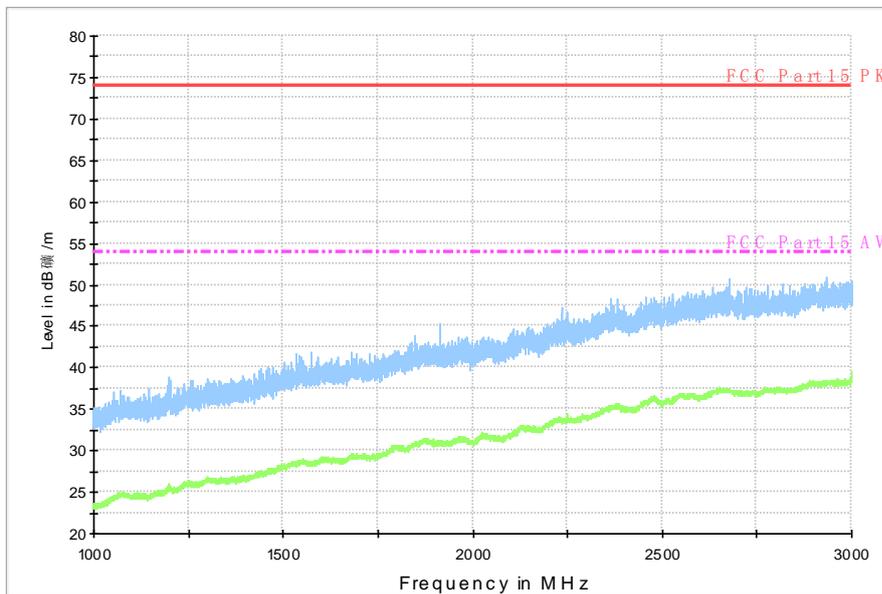


Fig. 73 Radiated Spurious Emission (802.11n-HT20, Ch149, 1 GHz-3 GHz)