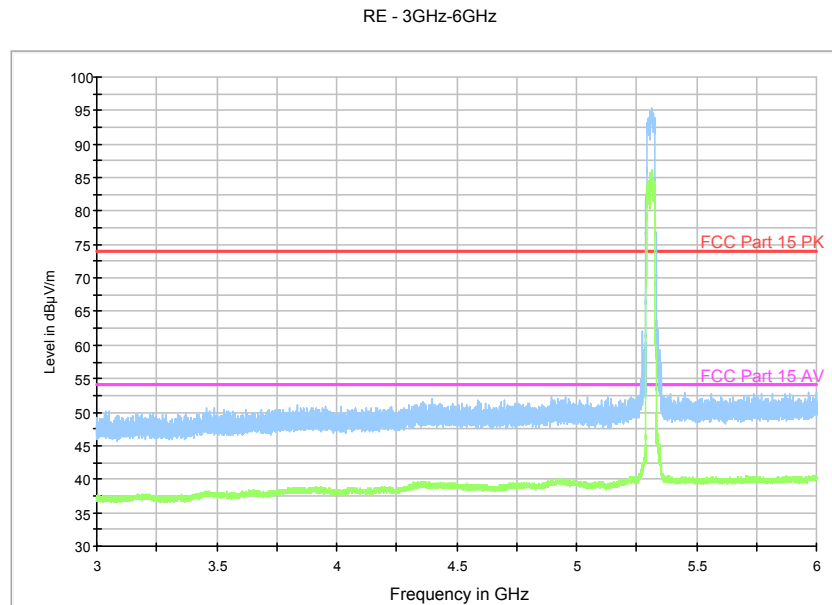




Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 130 Radiated Spurious Emission (802.11ac-HT40, ch60, 3GHz-6 GHz)

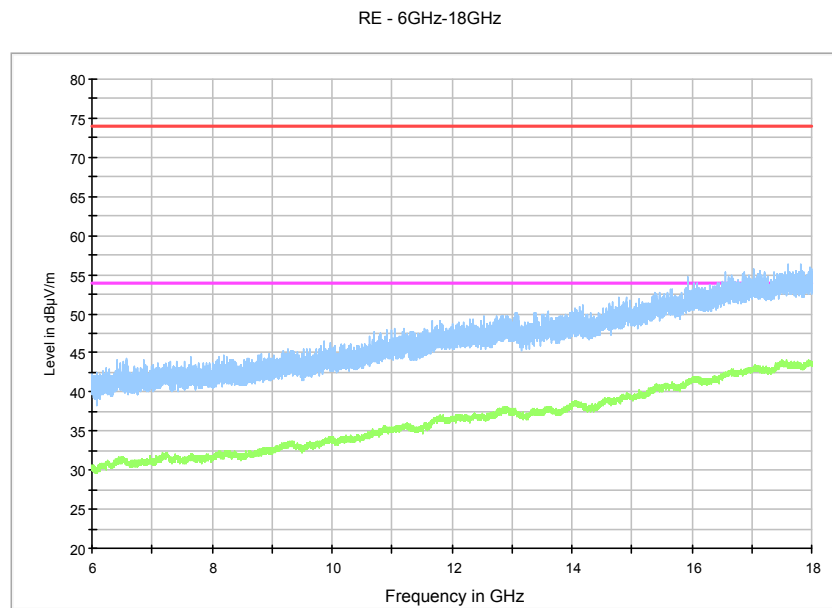


Fig. 131 Radiated Spurious Emission (802.11ac-HT40, ch60, 6 GHz-18 GHz)

5GHz U-NII 2C

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	100(5500MHz)	1 GHz ~ 3GHz	Fig.132	P
		3GHz ~ 6GHz	Fig.133	P
		6 GHz ~ 18 GHz	Fig.134	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.135	P
		1 GHz ~ 6 GHz	Fig.136	P
		3GHz ~ 6GHz	Fig.137	P
		6 GHz ~ 18 GHz	Fig.138	P
		18 GHz ~ 26.5 GHz	Fig.139	P
		26.5 GHz ~ 40 GHz	Fig.140	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.141	P
		3GHz ~ 6GHz	Fig.142	P
		6 GHz ~ 18 GHz	Fig.143	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	100(5500MHz)	1 GHz ~ 3GHz	Fig.144	P
		3GHz ~ 6GHz	Fig.145	P
		6 GHz ~ 18 GHz	Fig.146	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.147	P
		1 GHz ~ 6 GHz	Fig.148	P
		3GHz ~ 6GHz	Fig.149	P
		6 GHz ~ 18 GHz	Fig.150	P
		18 GHz ~ 26.5 GHz	Fig.151	P
		26.5 GHz ~ 40 GHz	Fig.152	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.153	P
		3GHz ~ 6GHz	Fig.154	P
		6 GHz ~ 18 GHz	Fig.155	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	100(5510MHz)	1 GHz ~ 3GHz	Fig.156	P
		3GHz ~ 6GHz	Fig.157	P
		6 GHz ~ 18 GHz	Fig.158	P
	116(5590MHz)	30 MHz ~1 GHz	Fig.159	P
		1 GHz ~ 6 GHz	Fig.160	P
		3GHz ~ 6GHz	Fig.161	P
		6 GHz ~ 18 GHz	Fig.162	P
		18 GHz ~ 26.5 GHz	Fig.163	P
		26.5 GHz ~ 40 GHz	Fig.164	P
		1 GHz ~ 6 GHz	Fig.165	P
	132(5670MHz)	3GHz ~ 6GHz	Fig.166	P
		6 GHz ~ 18 GHz	Fig.167	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT20	100(5500MHz)	1 GHz ~3GHz	Fig.168	P
		3GHz ~ 6GHz	Fig.169	P
		6 GHz ~ 18GHz	Fig.170	P
	120(5600MHz)	30 MHz ~1GHz	Fig.171	P
		1 GHz ~ 3GHz	Fig.172	P
		3GHz ~ 6GHz	Fig.173	P
		6 GHz ~ 18GHz	Fig.174	P
		18 GHz ~ 26.5 GHz	Fig.175	P
		26.5 GHz ~ 40 GHz	Fig.176	P
	140(5700MHz)	1 GHz ~ 3 GHz	Fig.177	P
		3GHz ~ 6GHz	Fig.178	P
		6 GHz ~ 18 GHz	Fig.179	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT40	100(5510MHz)	1 GHz ~ 3GHz	Fig.180	P
		3GHz ~ 6GHz	Fig.181	P
		6 GHz ~ 18 GHz	Fig.182	P
	116(5590MHz)	30 MHz ~1 GHz	Fig.183	P
		1 GHz ~ 6 GHz	Fig.184	P
		3GHz ~ 6GHz	Fig.185	P
		6 GHz ~ 18 GHz	Fig.186	P
		18 GHz ~ 26.5 GHz	Fig.187	P
		26.5 GHz ~ 40 GHz	Fig.188	P
	132(5670MHz)	1 GHz ~ 6 GHz	Fig.189	P
		3GHz ~ 6GHz	Fig.190	P
		6 GHz ~ 18 GHz	Fig.191	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.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

5GHz U-NII 2C

802.11a

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.652	43.3	-33.3	34.4	42.163	V
17944.200	44.1	-23.3	41.0	26.433	V
17511.000	44.0	-23.9	41.2	26.653	V
17937.000	44.0	-23.3	41.0	26.333	H
17533.200	43.9	-23.9	41.2	26.553	H
17520.600	43.9	-23.9	41.2	26.553	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.802	58.1	-33.3	34.4	56.963	V
17890.200	56.4	-23.3	41.0	38.733	V
17643.000	56.3	-23.4	41.2	38.472	H
17372.400	56.1	-24.3	41.2	39.169	H
17146.800	56.0	-24.2	41.4	38.785	H
17625.000	55.9	-23.9	41.2	38.553	V

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17494.200	44.1	-23.9	41.2	26.753	V
17958.000	44.1	-23.3	41.0	26.433	H
17950.200	44.0	-23.3	41.0	26.333	H
17984.400	44.0	-23.3	41.0	26.333	H
17946.600	44.0	-23.3	41.0	26.333	H
17969.400	44.0	-23.3	41.0	26.333	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17666.400	57.1	-23.4	41.2	39.272	H
17914.200	56.1	-23.3	41.0	38.433	H
17547.000	56.1	-23.9	41.2	38.753	V
17479.200	56.0	-23.9	41.2	38.653	V
17976.600	55.8	-23.3	41.0	38.133	V
17972.400	55.8	-23.3	41.0	38.133	V

Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5726.098	46.0	-33.4	34.8	44.638	V
17955.600	44.0	-23.3	41.0	26.333	V
17987.400	43.9	-23.3	41.0	26.233	V
17960.400	43.9	-23.3	41.0	26.233	V
17617.800	43.9	-23.9	41.2	26.553	H
17511.000	43.9	-23.9	41.2	26.553	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5726.478	66.2	-33.4	34.8	64.838	V
17570.400	56.4	-23.9	41.2	39.053	V
17604.000	56.1	-23.9	41.2	38.753	V
17908.800	55.9	-23.3	41.0	38.233	V
17773.200	55.8	-23.4	41.0	38.172	H
17650.200	55.8	-23.4	41.2	37.972	V

802.11n-HT20

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5460.000	42.0	-33.3	34.4	40.863	V
17511.000	44.0	-23.9	41.2	26.653	H
17938.200	44.0	-23.3	41.0	26.333	V
17531.400	44.0	-23.9	41.2	26.653	H
17530.200	44.0	-23.9	41.2	26.653	H
17987.400	43.9	-23.3	41.0	26.233	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5459.818	56.5	-33.3	34.4	55.363	V
17481.600	56.3	-23.9	41.2	38.953	V
17430.600	56.1	-24.3	41.2	39.169	H
17546.400	55.7	-23.9	41.2	38.353	H
17964.600	55.7	-23.3	41.0	38.033	V
17773.800	55.6	-23.4	41.0	37.972	V

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17511.000	44.0	-23.9	41.2	26.653	H
17938.200	44.0	-23.3	41.0	26.333	V
17531.400	44.0	-23.9	41.2	26.653	H
17530.200	44.0	-23.9	41.2	26.653	H
17987.400	43.9	-23.3	41.0	26.233	H
17499.000	43.9	-23.9	41.2	26.553	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17481.600	56.3	-23.9	41.2	38.953	V
17430.600	56.1	-24.3	41.2	39.169	H
17546.400	55.7	-23.9	41.2	38.353	H
17964.600	55.7	-23.3	41.0	38.033	V
17773.800	55.6	-23.4	41.0	37.972	V
17986.200	55.6	-23.3	41.0	37.933	H



Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5725.000	44.5	-33.4	34.8	43.138	H
17984.400	44.1	-23.3	41.0	26.433	V
17971.800	44.1	-23.3	41.0	26.433	H
17959.800	44.0	-23.3	41.0	26.333	V
17969.400	44.0	-23.3	41.0	26.333	V
17970.600	44.0	-23.3	41.0	26.333	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5726.238	65.4	-33.4	34.8	64.038	H
17721.600	56.1	-23.4	41.2	38.272	H
17486.400	56.1	-23.9	41.2	38.753	H
17491.800	56.1	-23.9	41.2	38.753	H
17936.400	56.1	-23.3	41.0	38.433	H
17479.800	56.0	-23.9	41.2	38.653	V

802.11n-HT40

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5459.998	43.9	-33.3	34.4	42.763	H
17970.000	44.1	-23.3	41.0	26.433	H
17942.400	43.9	-23.3	41.0	26.233	H
17505.600	43.9	-23.9	41.2	26.553	H
17509.800	43.9	-23.9	41.2	26.553	V
17454.000	43.9	-24.3	41.2	26.969	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5457.218	61.1	-33.3	34.4	59.963	H
17571.000	56.7	-23.9	41.2	39.353	H
16969.200	56.6	-24.6	41.5	39.715	H
17569.200	56.5	-23.9	41.2	39.153	V
17486.400	56.3	-23.9	41.2	38.953	V
17985.600	56.1	-23.3	41.0	38.433	V

Channel 116
Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17967.000	44.0	-23.3	41.0	26.333	H
17544.000	43.9	-23.9	41.2	26.553	H
17953.800	43.8	-23.3	41.0	26.133	V
17616.000	43.8	-23.9	41.2	26.453	V
17955.600	43.8	-23.3	41.0	26.133	H
17731.800	43.8	-23.4	41.2	25.972	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17868.600	56.1	-23.3	41.0	38.433	V
17509.200	55.9	-23.9	41.2	38.553	H
17440.200	55.9	-24.3	41.2	38.969	H
17444.400	55.7	-24.3	41.2	38.769	V
17646.000	55.6	-23.4	41.2	37.772	H
17876.400	55.6	-23.3	41.0	37.933	H

Channel 132
Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5725.555	43.6	-33.4	34.8	42.238	H
17970.000	44.1	-23.3	41.0	26.433	V
17930.400	44.0	-23.3	41.0	26.333	H
17976.000	44.0	-23.3	41.0	26.333	H
17487.000	44.0	-23.9	41.2	26.653	V
17928.600	44.0	-23.3	41.0	26.333	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5725.740	62.0	-33.4	34.8	60.638	H
17385.600	56.9	-24.3	41.2	39.969	V
17766.000	56.1	-23.4	41.0	38.472	V
17509.200	56.0	-23.9	41.2	38.653	V
17677.200	56.0	-23.4	41.2	38.172	V
17490.000	56.0	-23.9	41.2	38.653	V



802.11ac-HT20

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5458.720	42.9	-33.3	34.4	41.763	H
17986.200	44.0	-23.3	41.0	26.333	V
17999.400	44.0	-23.0	41.0	26.047	H
17619.600	43.9	-23.9	41.2	26.553	V
17478.000	43.9	-23.9	41.2	26.553	V
17505.000	43.9	-23.9	41.2	26.553	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5459.415	57.8	-33.3	34.4	56.663	H
16890.000	56.6	-24.7	41.5	39.847	H
17986.200	56.3	-23.3	41.0	38.633	V
17521.200	56.1	-23.9	41.2	38.753	H
17445.600	56.1	-24.3	41.2	39.169	V
17968.200	56.0	-23.3	41.0	38.333	H

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17508.600	44.0	-23.9	41.2	26.653	H
17953.200	44.0	-23.3	41.0	26.333	V
17937.000	43.9	-23.3	41.0	26.233	H
17500.200	43.9	-23.9	41.2	26.553	H
17500.800	43.9	-23.9	41.2	26.553	H
17994.600	43.9	-23.0	41.0	25.947	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17562.000	56.7	-23.9	41.2	39.353	H
17452.200	56.0	-24.3	41.2	39.069	H
17947.800	55.9	-23.3	41.0	38.233	H
17983.800	55.9	-23.3	41.0	38.233	V
17050.200	55.8	-24.6	41.4	39.015	V
17666.400	55.8	-23.4	41.2	37.972	H



Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5726.410	44.4	-33.4	34.8	43.038	H
17962.800	44.0	-23.3	41.0	26.333	H
17987.400	44.0	-23.3	41.0	26.333	H
17944.200	44.0	-23.3	41.0	26.333	H
17985.600	43.9	-23.3	41.0	26.233	H
17495.400	43.9	-23.9	41.2	26.553	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5725.393	66.4	-33.4	34.8	65.038	H
17742.600	56.6	-23.4	41.2	38.772	V
17637.000	56.2	-23.4	41.2	38.372	H
17502.600	56.1	-23.9	41.2	38.753	H
17441.400	55.8	-24.3	41.2	38.869	H
17085.000	55.8	-24.6	41.4	39.015	V

802.11ac-HT40

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5460.000	44.6	-33.3	34.4	43.463	H
17508.000	44.0	-23.9	41.2	26.653	V
17927.400	44.0	-23.3	41.0	26.333	V
17963.400	44.0	-23.3	41.0	26.333	H
17536.800	43.9	-23.9	41.2	26.553	H
17512.800	43.9	-23.9	41.2	26.553	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5459.465	63.1	-33.3	34.4	61.963	H
17519.400	56.2	-23.9	41.2	38.853	H
17617.200	56.1	-23.9	41.2	38.753	H
17953.200	55.9	-23.3	41.0	38.233	V
17420.400	55.8	-24.3	41.2	38.869	V
17865.600	55.8	-23.3	41.0	38.133	H

Channel 116

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17550.600	43.9	-23.9	41.2	26.553	V
17915.400	43.8	-23.3	41.0	26.133	V
17507.400	43.7	-23.9	41.2	26.353	V
17504.400	43.7	-23.9	41.2	26.353	V
17455.200	43.7	-24.3	41.2	26.769	H
17950.200	43.7	-23.3	41.0	26.033	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17931.000	56.2	-23.3	41.0	38.533	V
17658.000	56.1	-23.4	41.2	38.272	H
17770.800	55.6	-23.4	41.0	37.972	V
17551.800	55.6	-23.9	41.2	38.253	V
17919.000	55.4	-23.3	41.0	37.733	H
17482.800	55.4	-23.9	41.2	38.053	H

Channel 132

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5725.425	44.2	-33.4	34.8	42.838	V
17496.000	44.0	-23.9	41.2	26.653	V
17547.000	44.0	-23.9	41.2	26.653	H
17939.400	44.0	-23.3	41.0	26.333	V
17605.800	43.9	-23.9	41.2	26.553	V
17955.600	43.9	-23.3	41.0	26.233	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5729.355	60.9	-33.7	34.8	59.765	V
17814.000	56.6	-23.3	41.0	38.933	H
17836.200	56.2	-23.3	41.0	38.533	V
17595.600	55.9	-23.9	41.2	38.553	V
17987.400	55.9	-23.3	41.0	38.233	H
17903.400	55.9	-23.3	41.0	38.233	H

Test graphs as below:

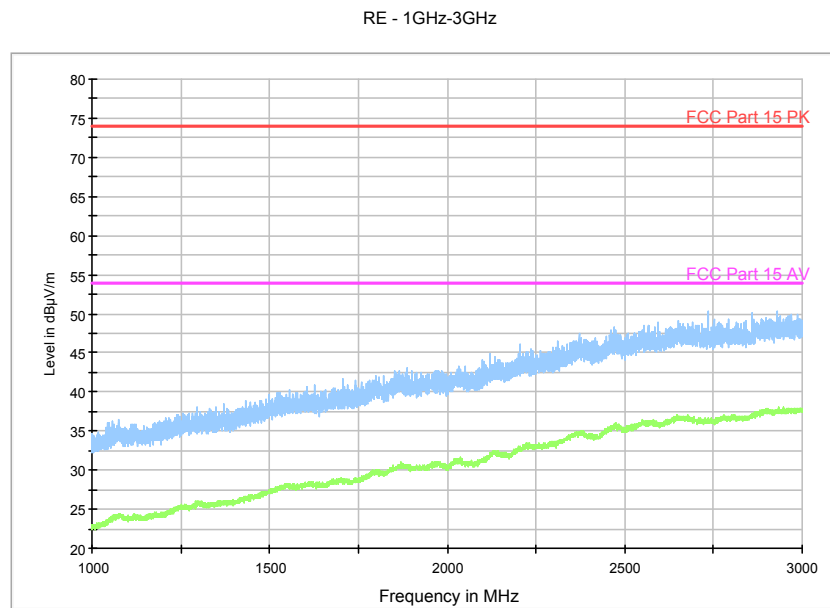
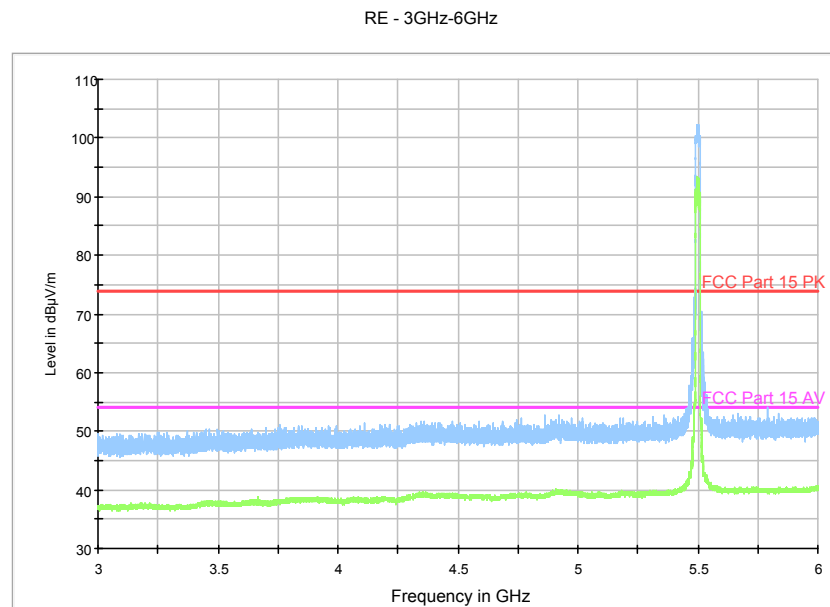


Fig. 132 Radiated Spurious Emission (802.11a, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 133 Radiated Spurious Emission (802.11a, ch100, 3 GHz-6GHz)

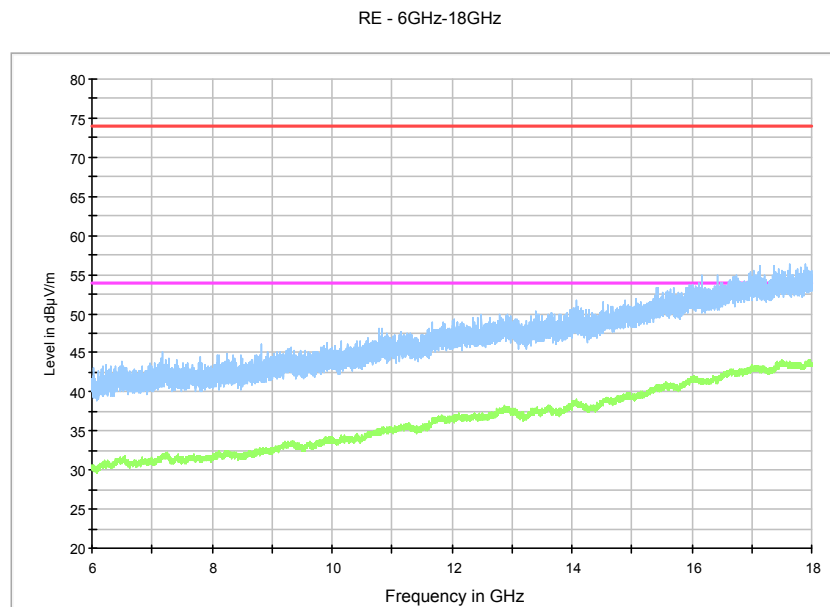


Fig. 134 Radiated Spurious Emission (802.11a, ch100, 6 GHz-18 GHz)

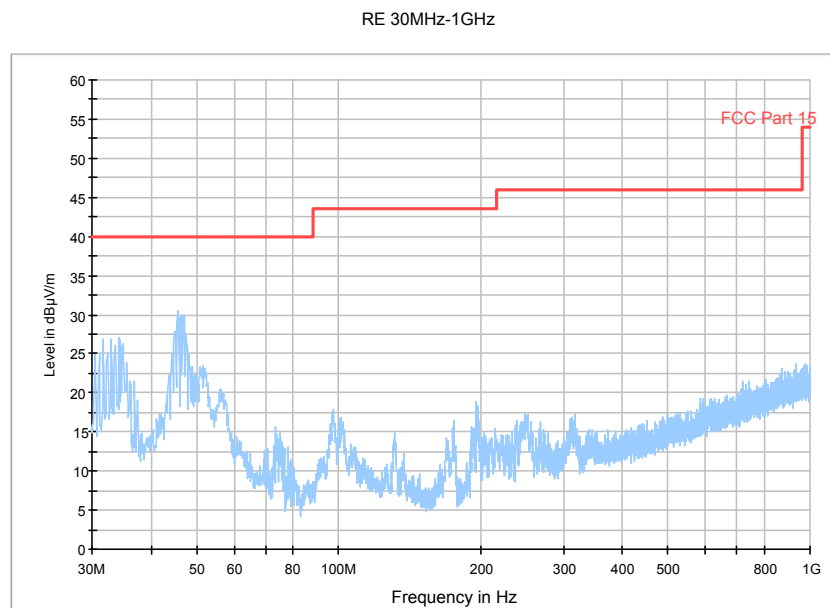


Fig. 135 Radiated Spurious Emission (802.11a, ch120, 30 MHz-1 GHz)

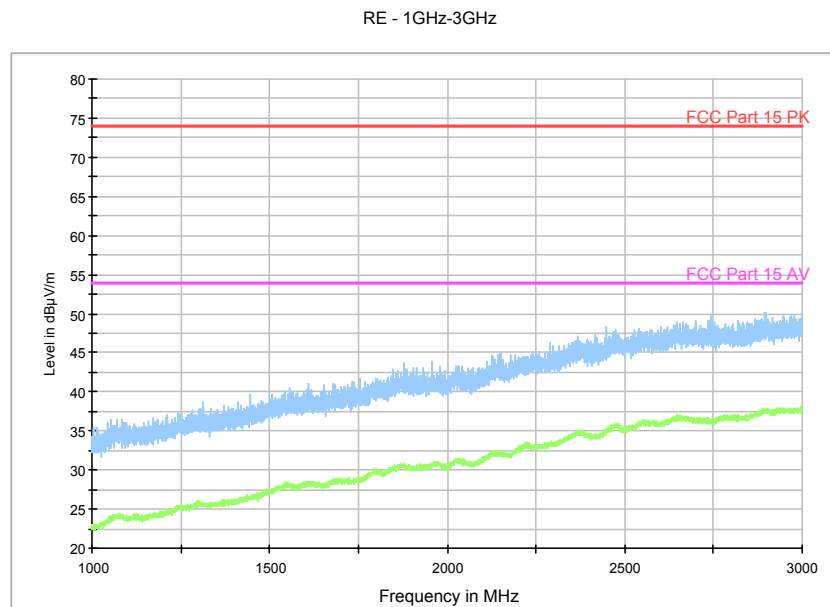
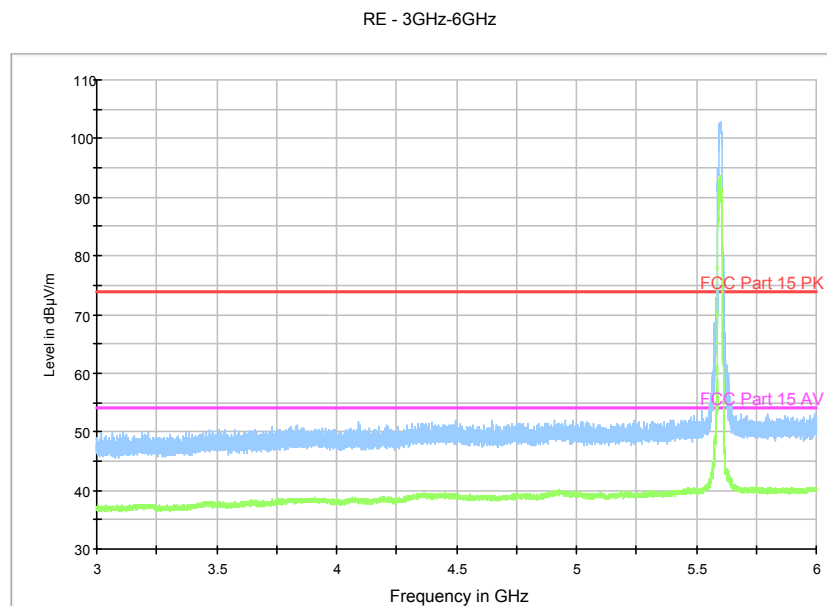


Fig. 136 Radiated Spurious Emission (802.11a, ch120, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 137 Radiated Spurious Emission (802.11a, ch120, 3 GHz-6GHz)

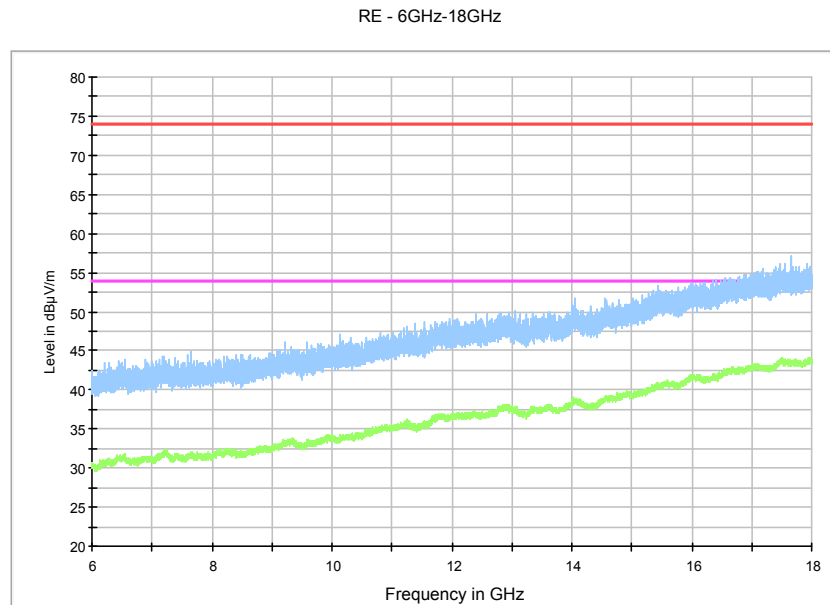


Fig. 138 Radiated Spurious Emission (802.11a, ch120, 6 GHz-18 GHz)

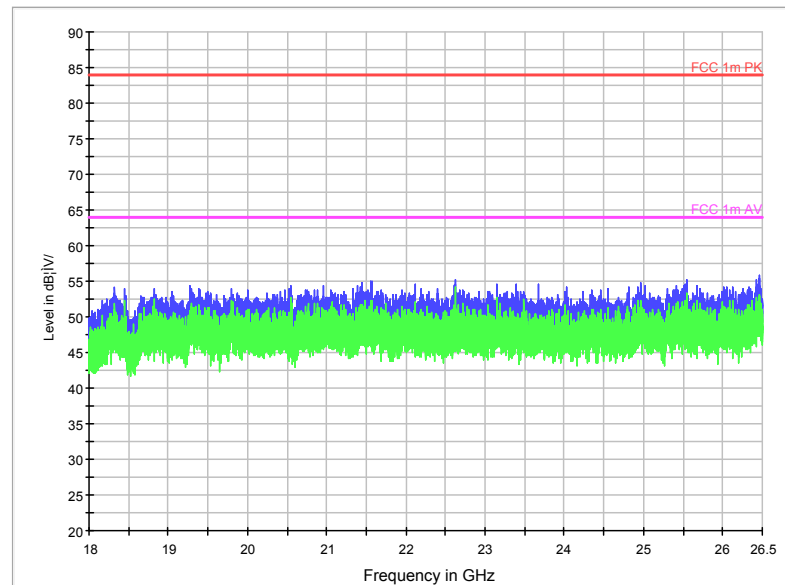


Fig. 139 Radiated Spurious Emission (802.11a, ch120, 18 GHz-26.5 GHz)

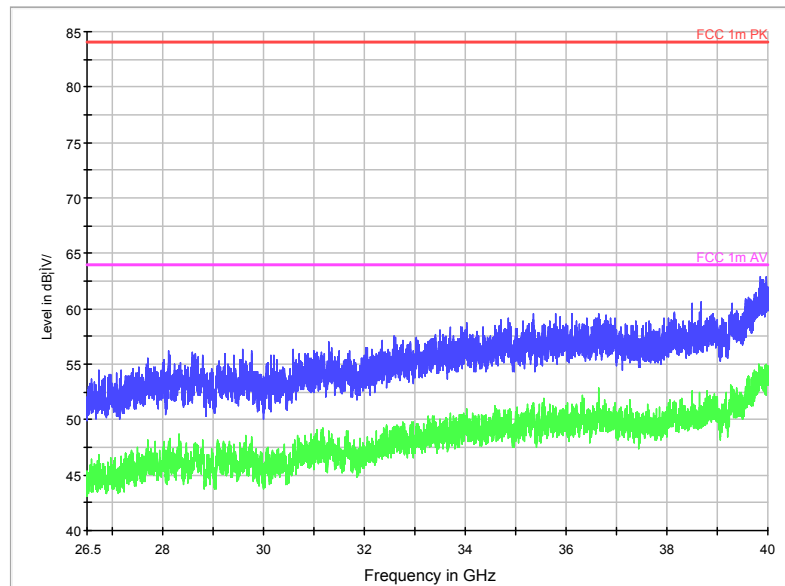


Fig. 140 Radiated Spurious Emission (802.11a, ch120, 26.5 GHz-40 GHz)

RE - 1GHz-3GHz

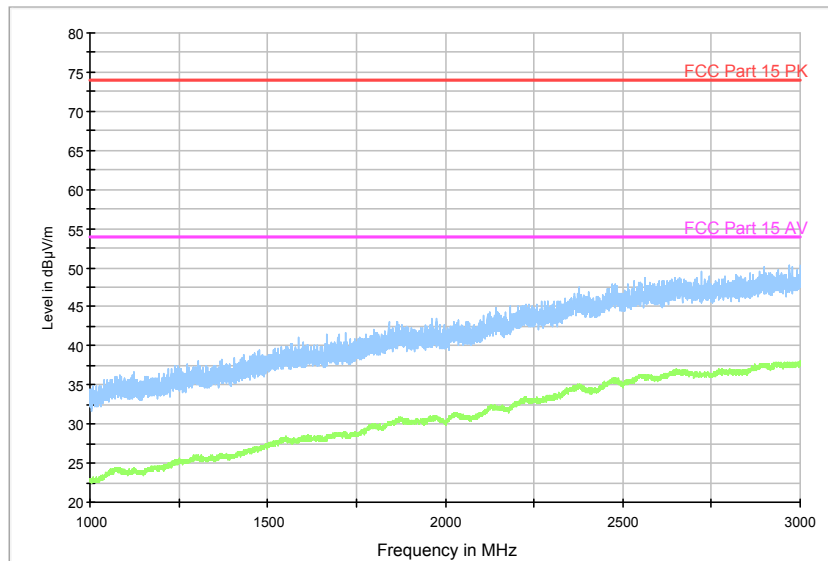
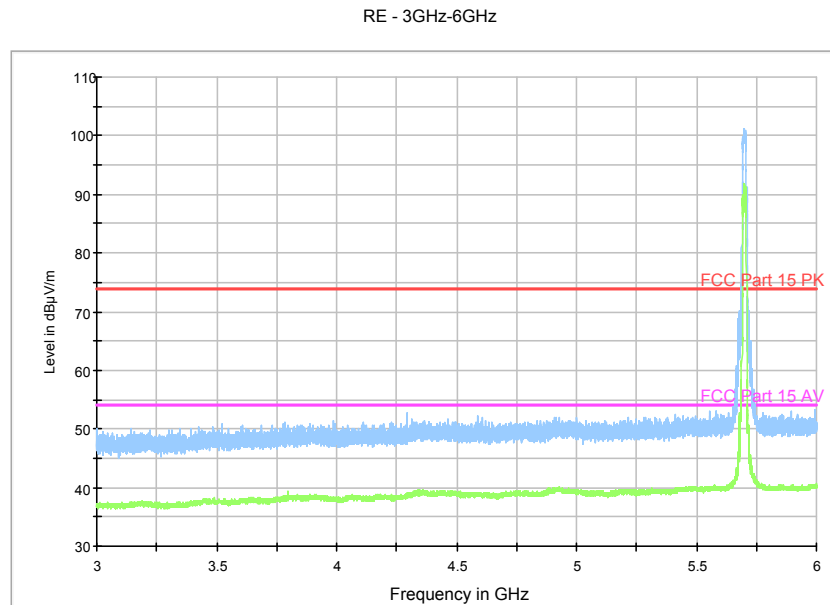


Fig. 141 Radiated Spurious Emission (802.11a, ch140, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 142 Radiated Spurious Emission (802.11a, ch140, 3 GHz-6 GHz)

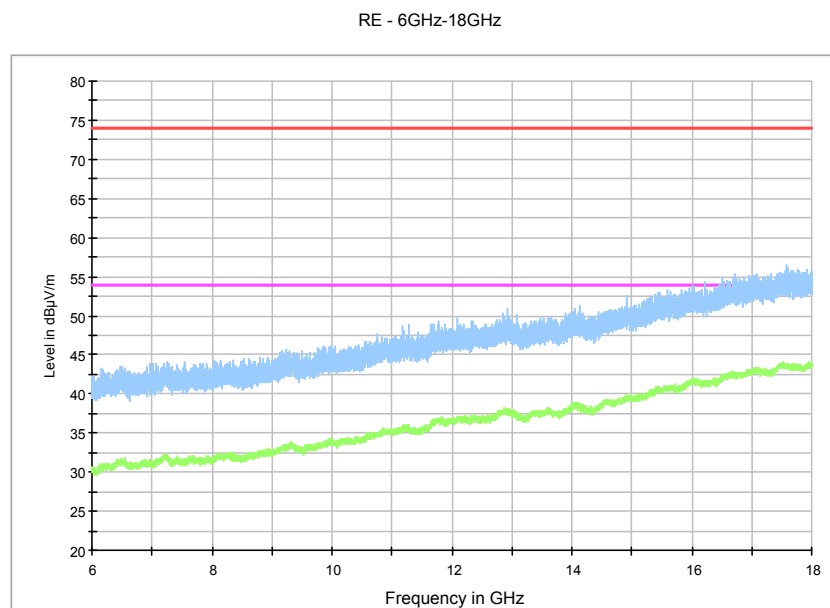


Fig. 143 Radiated Spurious Emission (802.11a, ch140, 6 GHz-18GHz)

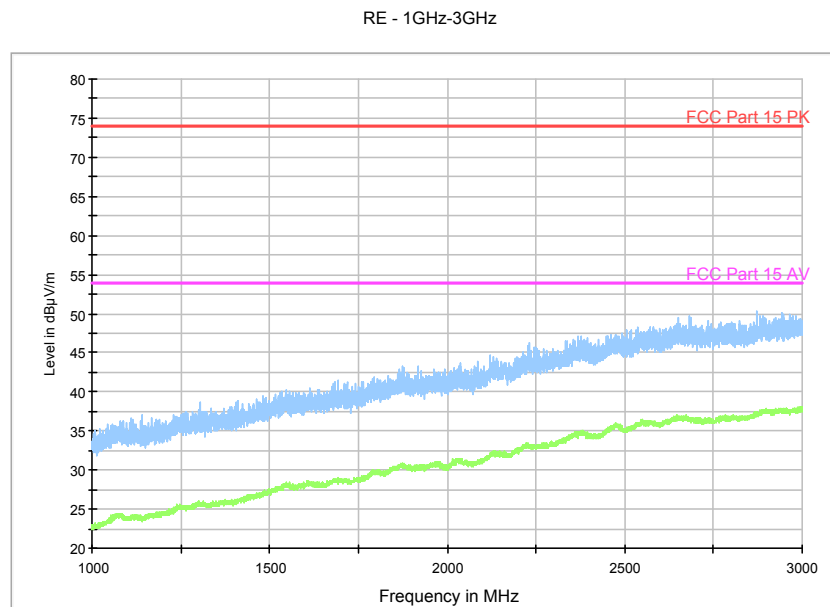
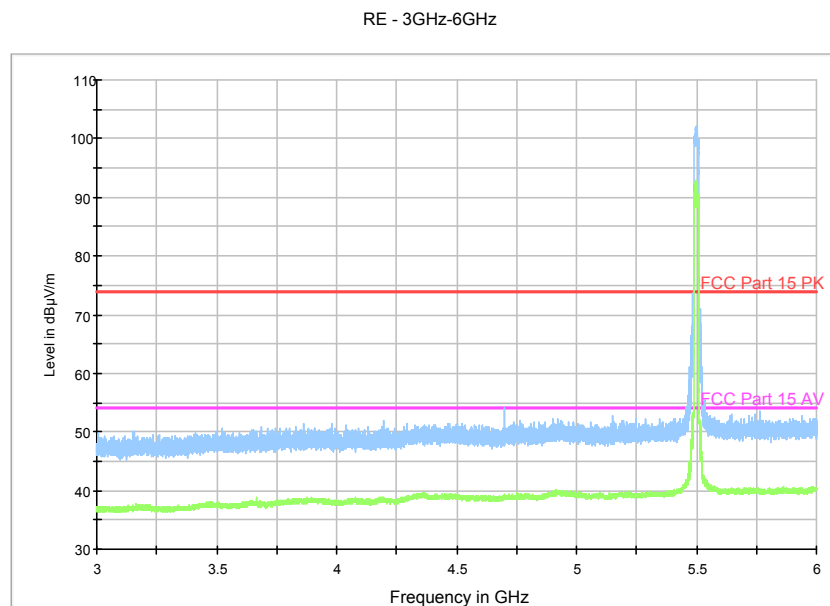


Fig. 144 Radiated Spurious Emission (802.11n-HT20, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 145 Radiated Spurious Emission (802.11n-HT20, ch100, 3 GHz-6 GHz)

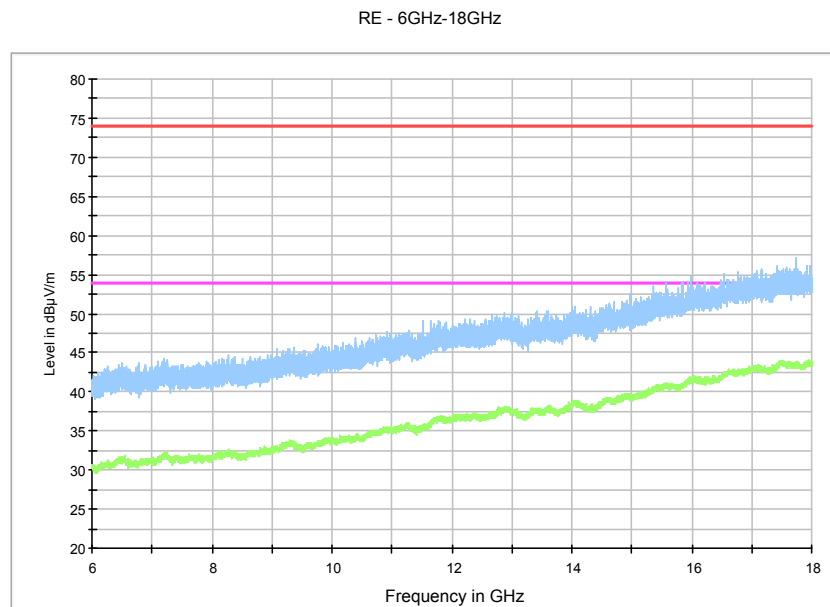


Fig. 146 Radiated Spurious Emission (802.11n-HT20, ch100, 6 GHz-18GHz)

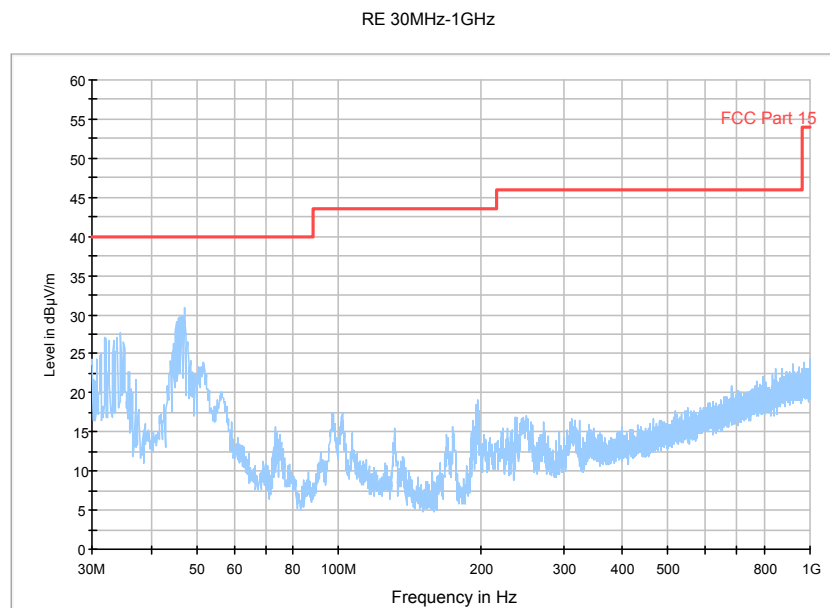


Fig. 147 Radiated Spurious Emission (802.11n-HT20, ch120, 30 MHz-1 GHz)

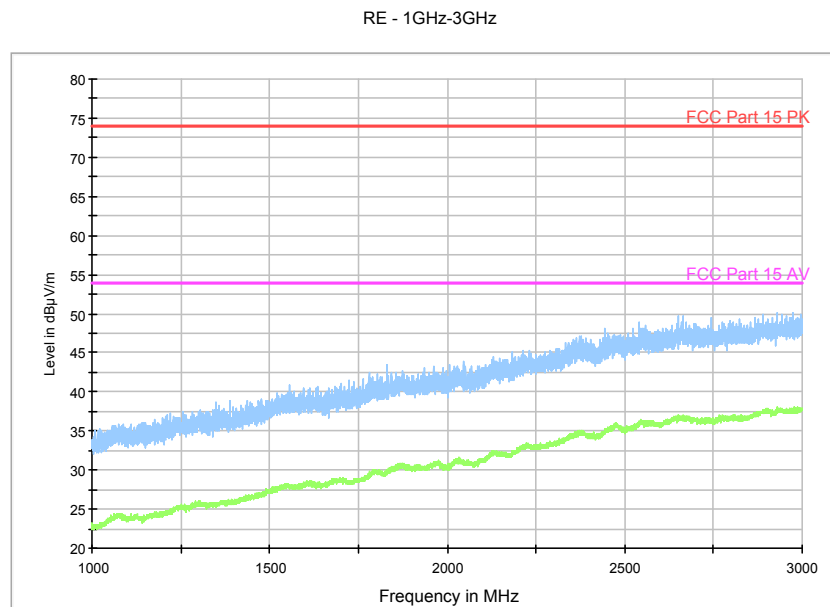
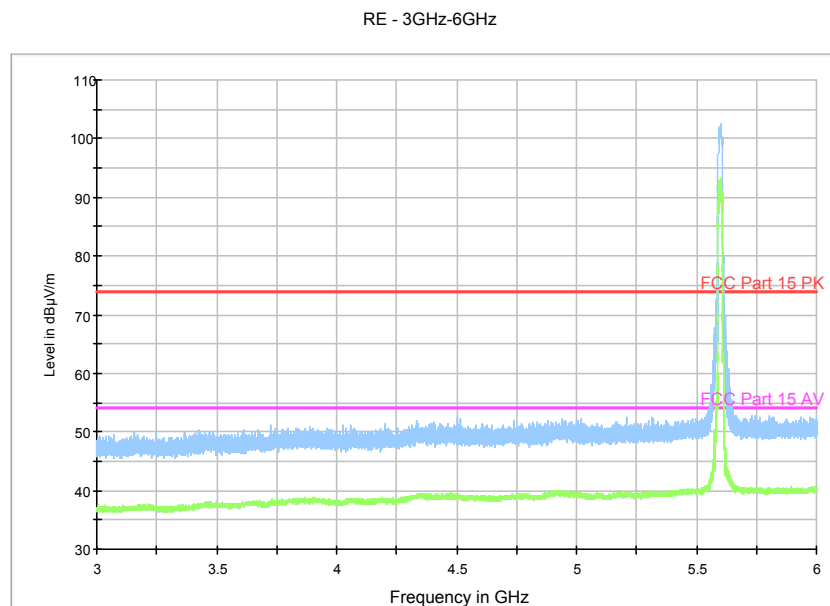


Fig. 148 Radiated Spurious Emission (802.11n-HT20, ch120 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 149 Radiated Spurious Emission (802.11n-HT20, ch120 3 GHz-6 GHz)

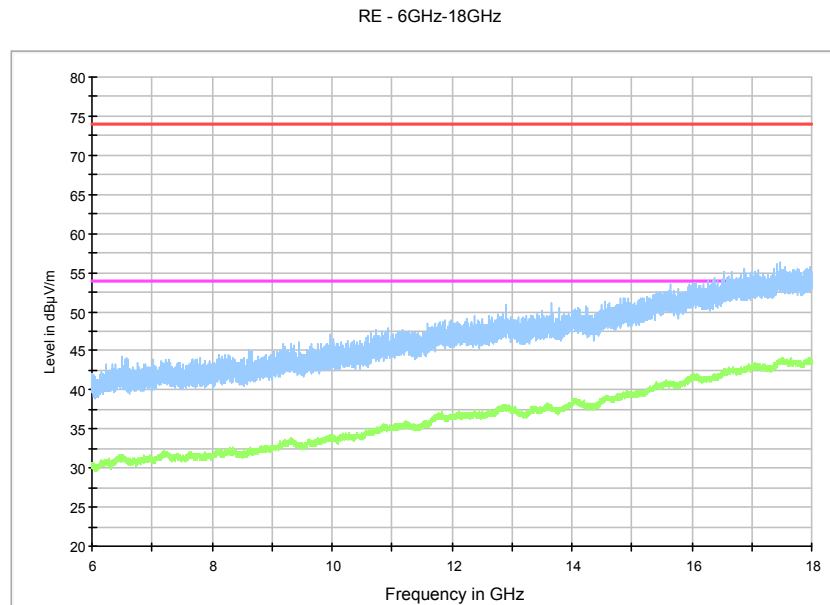


Fig. 150 Radiated Spurious Emission (802.11n-HT20, ch120, 6 GHz-18 GHz)

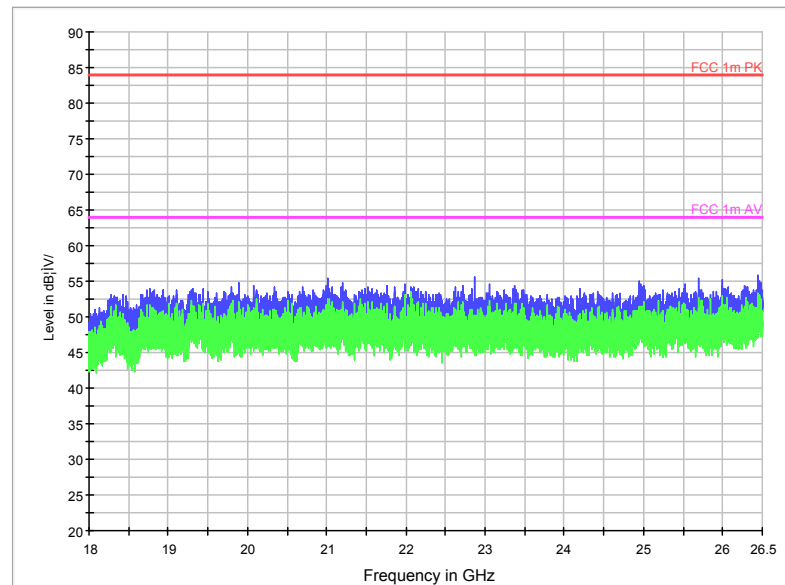


Fig. 151 Radiated Spurious Emission (802.11n-HT20, ch120, 18 GHz-26.5 GHz)

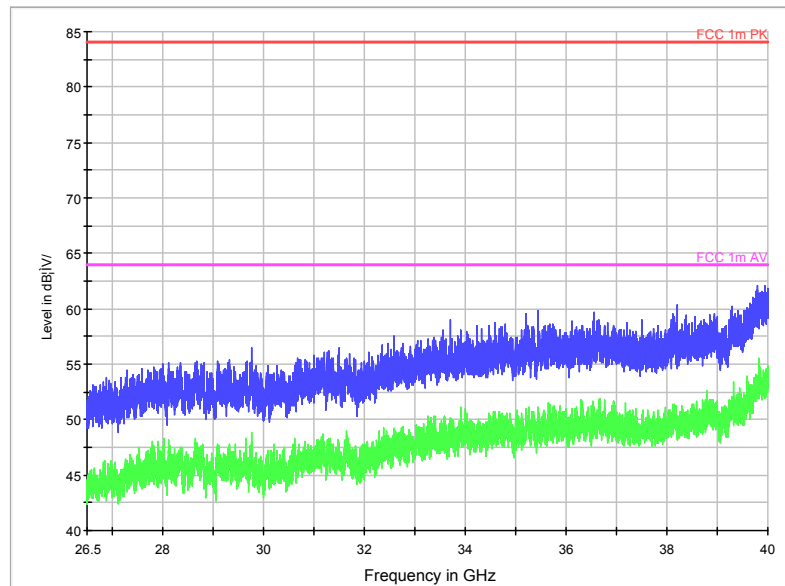


Fig. 152 Radiated Spurious Emission (802.11n-HT20, ch120, 26.5 GHz-40 GHz)

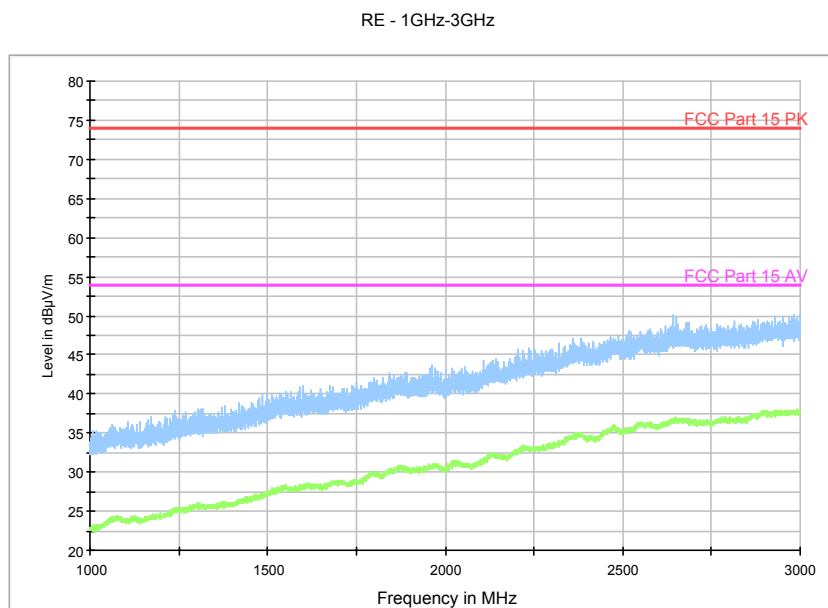
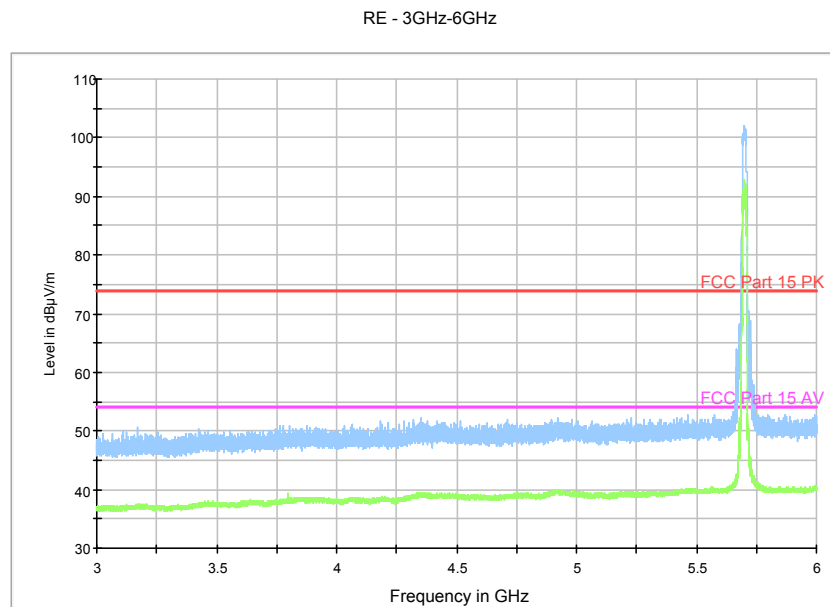


Fig. 153 Radiated Spurious Emission (802.11n-HT20, ch140, 1 GHz-3GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 154 Radiated Spurious Emission (802.11n-HT20, ch140, 3 GHz-6GHz)

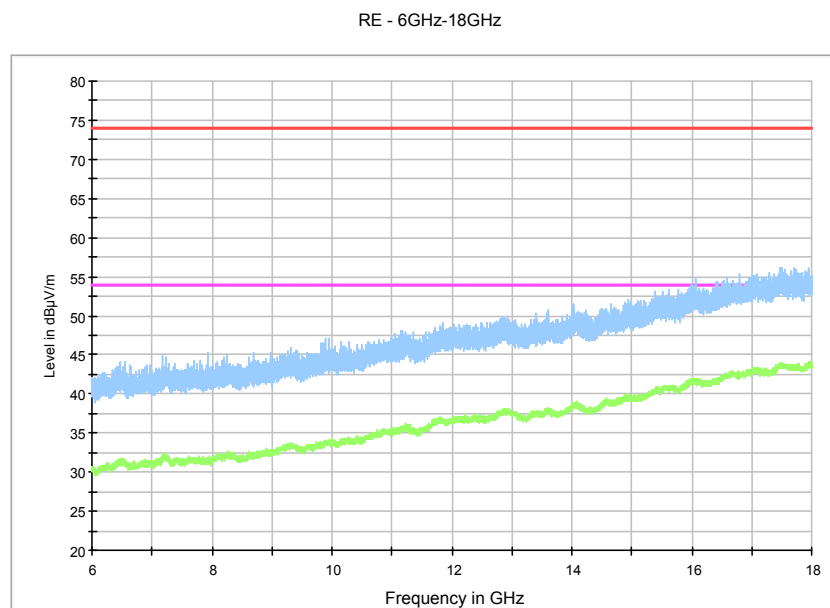


Fig. 155 Radiated Spurious Emission (802.11n-HT20, ch140, 6 GHz-18 GHz)

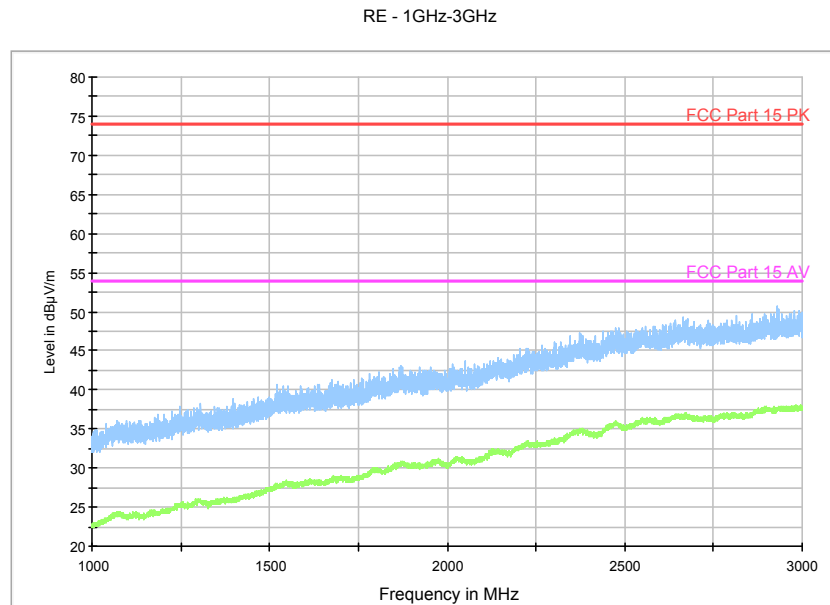
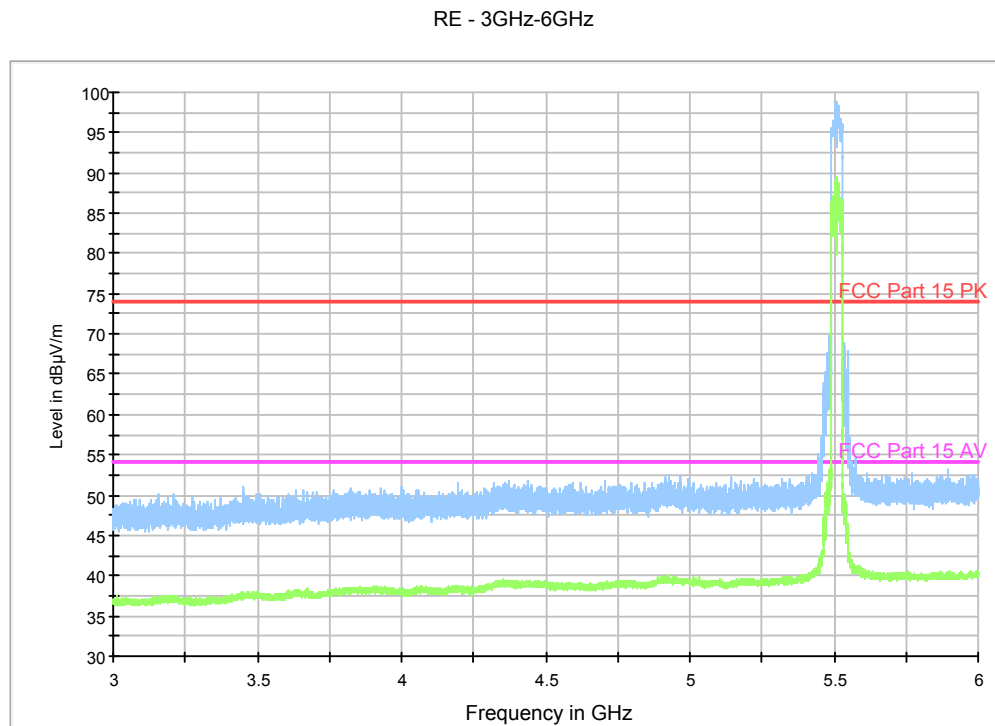


Fig. 156 Radiated Spurious Emission (802.11n-HT40, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 157 Radiated Spurious Emission (802.11n-HT40, ch100, 3 GHz-6 GHz)

RE - 6GHz-18GHz

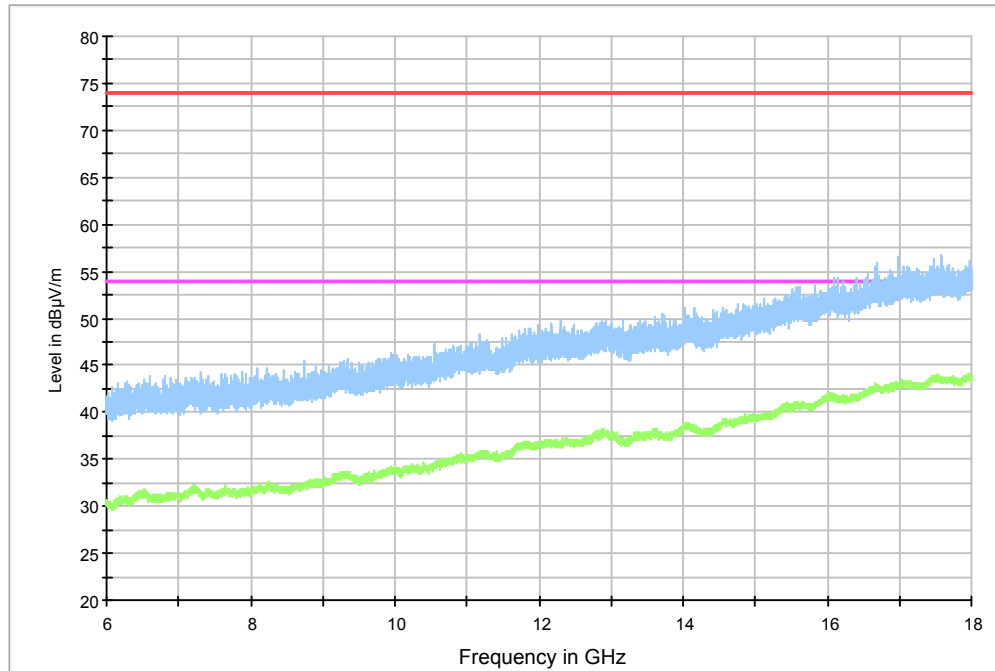


Fig. 158 Radiated Spurious Emission (802.11n-HT40, ch100, 6 GHz-18 GHz)

RE 30MHz-1GHz

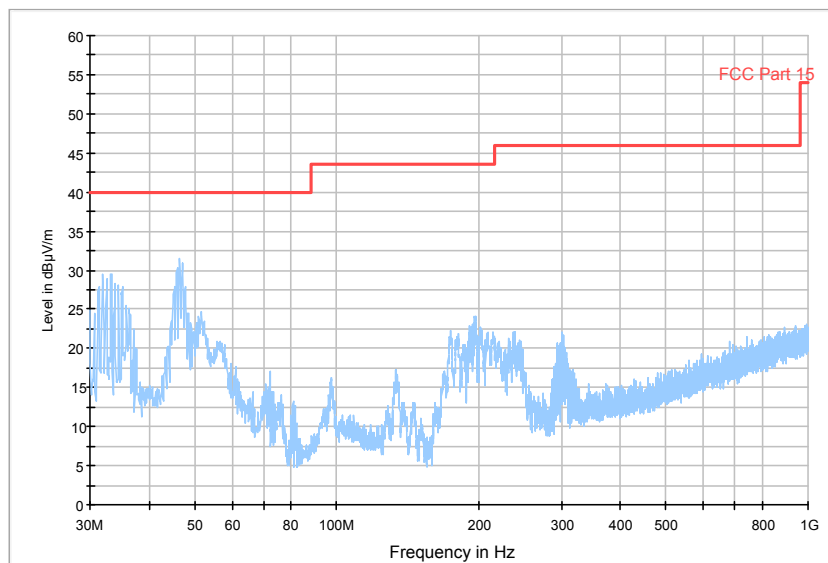


Fig. 159 Radiated Spurious Emission (802.11n-HT40, ch116, 30 MHz-1 GHz)

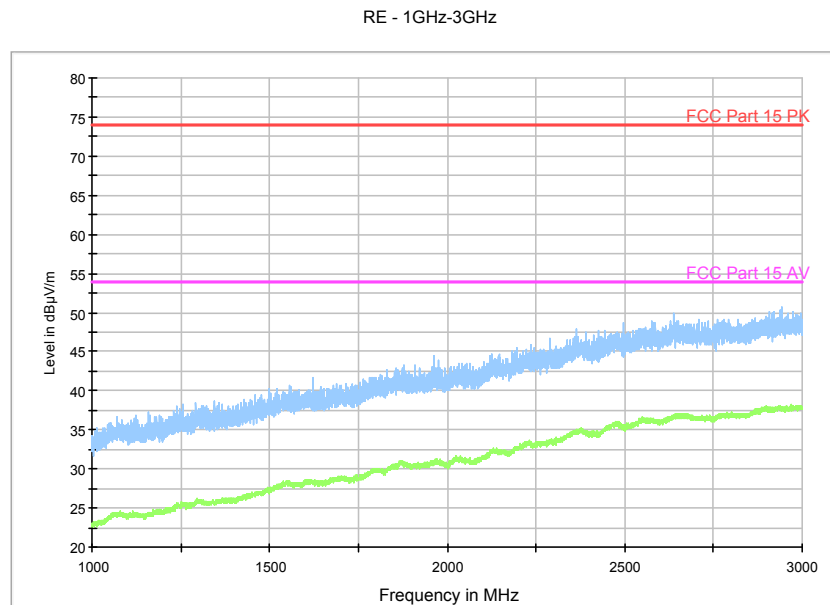
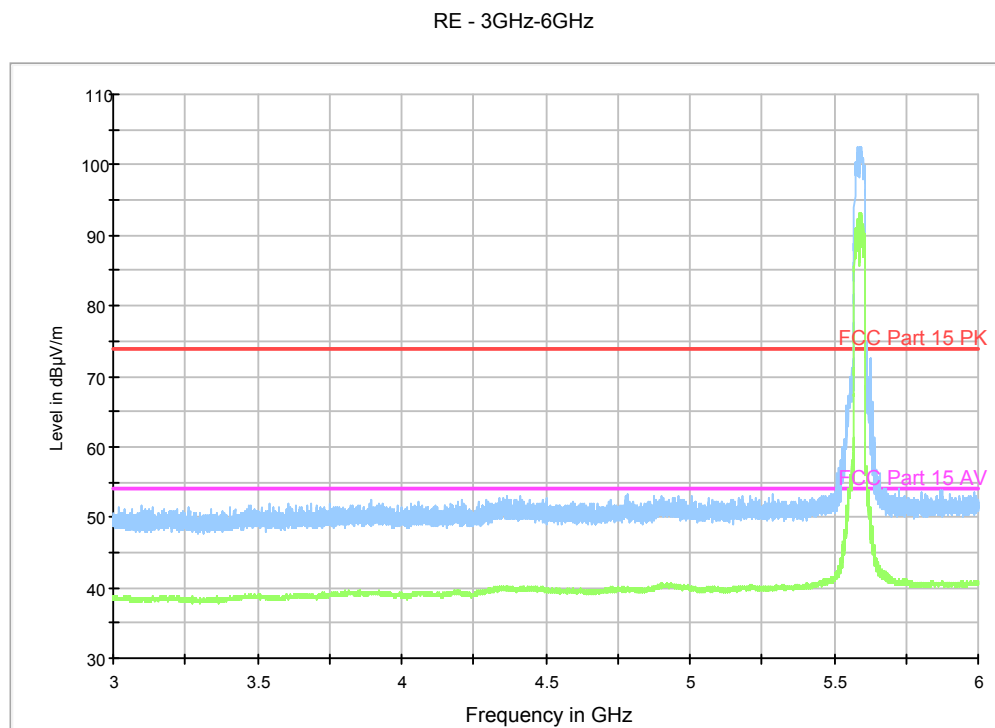


Fig. 160 Radiated Spurious Emission (802.11n-HT40, ch116, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 161 Radiated Spurious Emission (802.11n-HT40, ch116, 3 GHz-6 GHz)

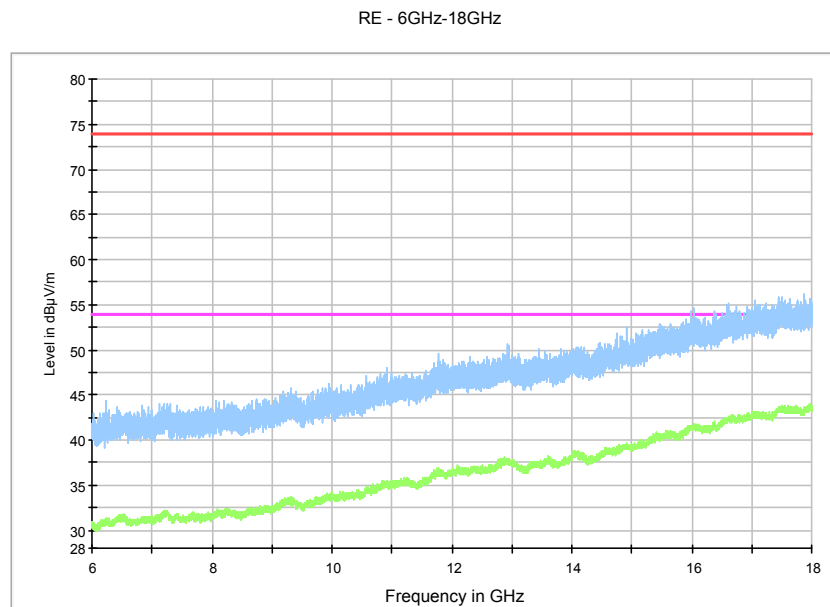


Fig. 162 Radiated Spurious Emission (802.11n-HT40, ch116, 6 GHz-18 GHz)

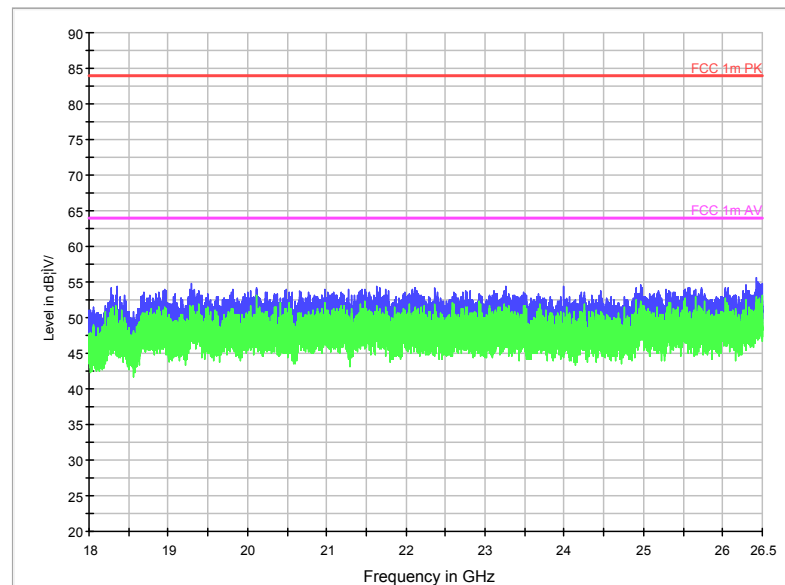


Fig. 163 Radiated Spurious Emission (802.11n-HT40, ch116, 18 GHz-26.5 GHz)

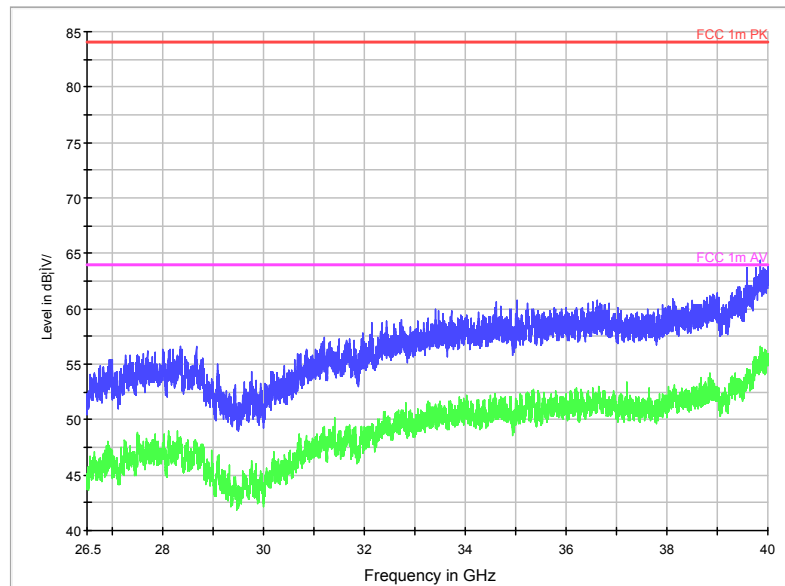


Fig. 164 Radiated Spurious Emission (802.11n-HT40, ch116, 26.5 GHz-40 GHz)

RE - 1GHz-3GHz

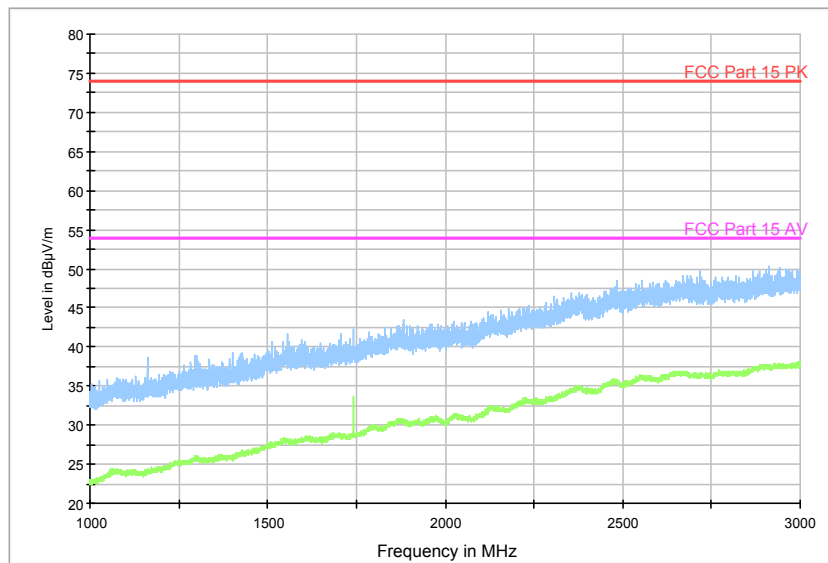
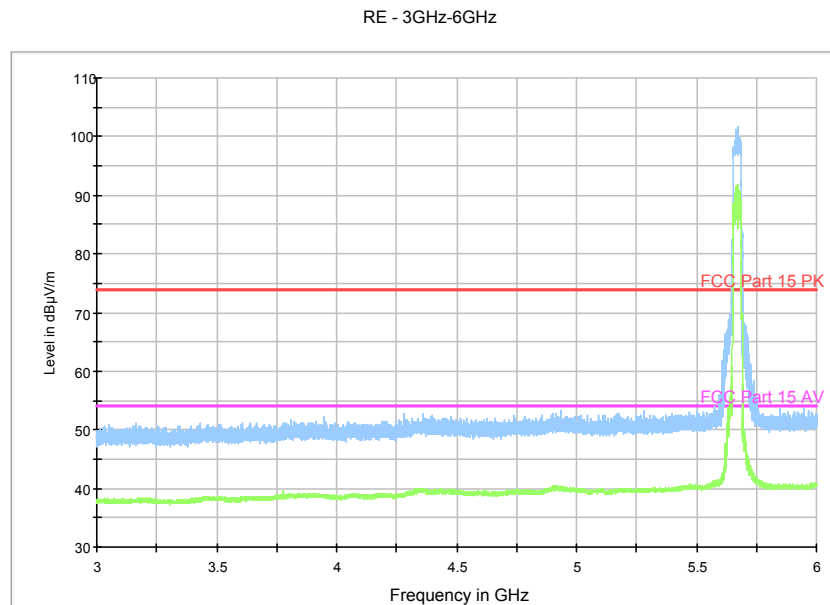


Fig. 165 Radiated Spurious Emission (802.11n-HT40, ch132, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 166 Radiated Spurious Emission (802.11n-HT40, ch132, 3 GHz-6 GHz)

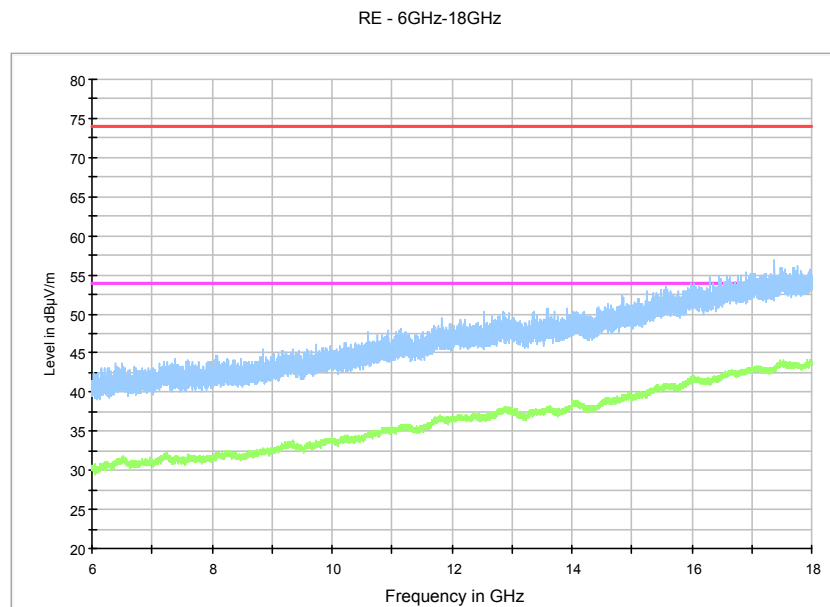


Fig. 167 Radiated Spurious Emission (802.11n-HT40, ch132, 6 GHz-18 GHz)

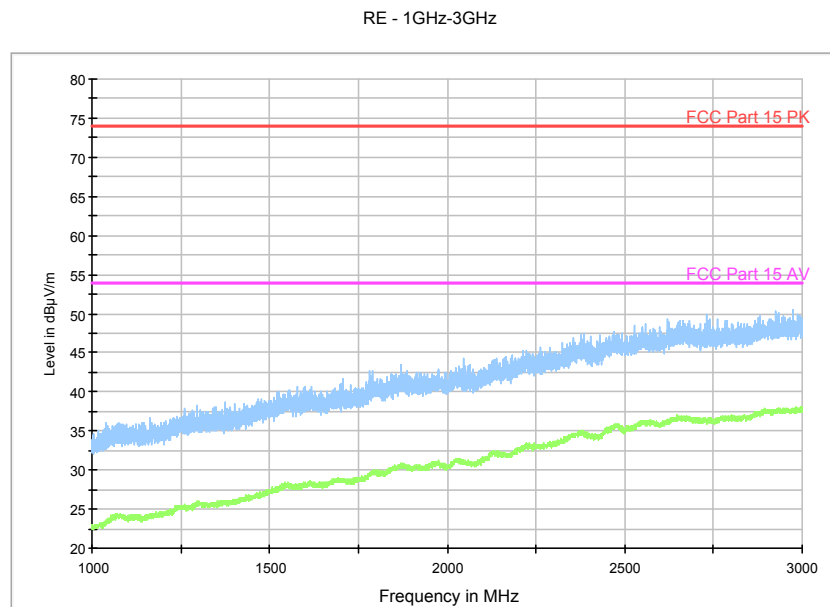
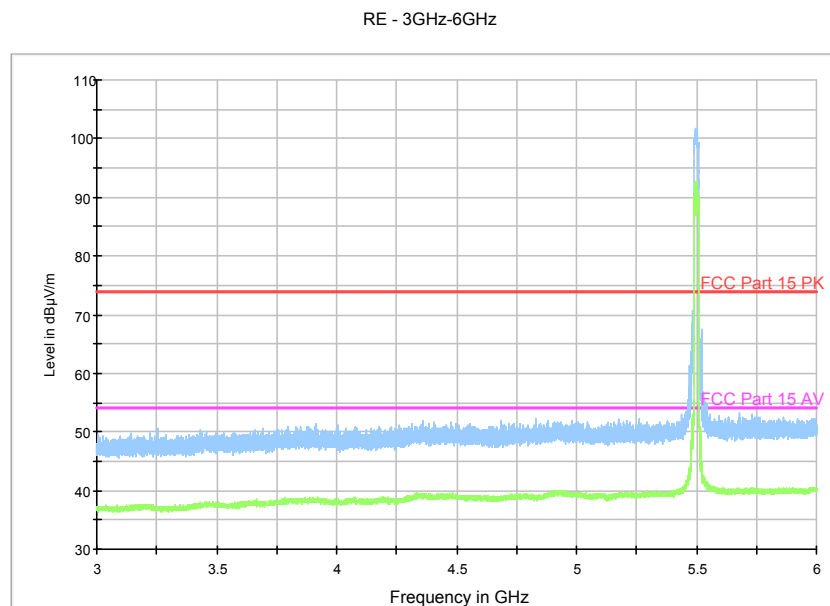


Fig. 168 Radiated Spurious Emission (802.11ac-HT20, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 169 Radiated Spurious Emission (802.11ac-HT20, ch100, 3 GHz-6 GHz)

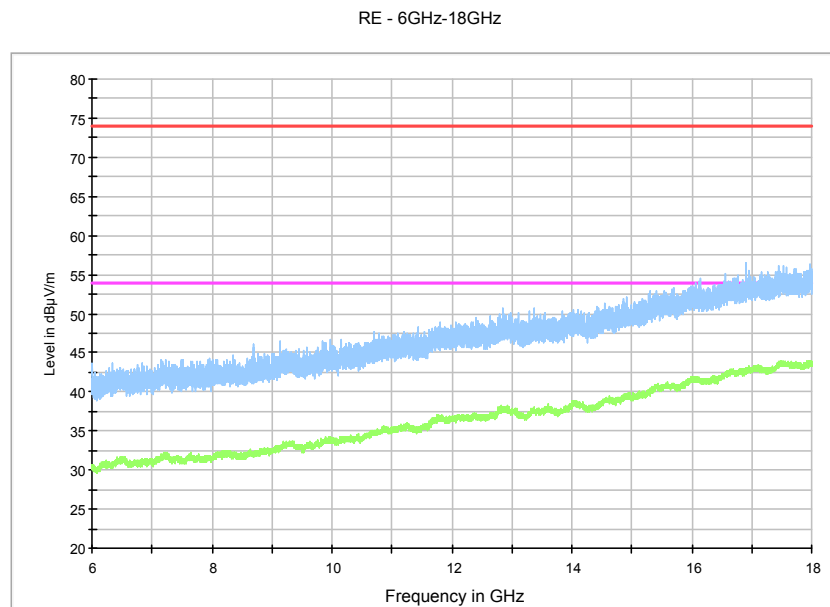


Fig. 170 Radiated Spurious Emission (802.11ac-HT20, ch100, 6 GHz-18GHz)

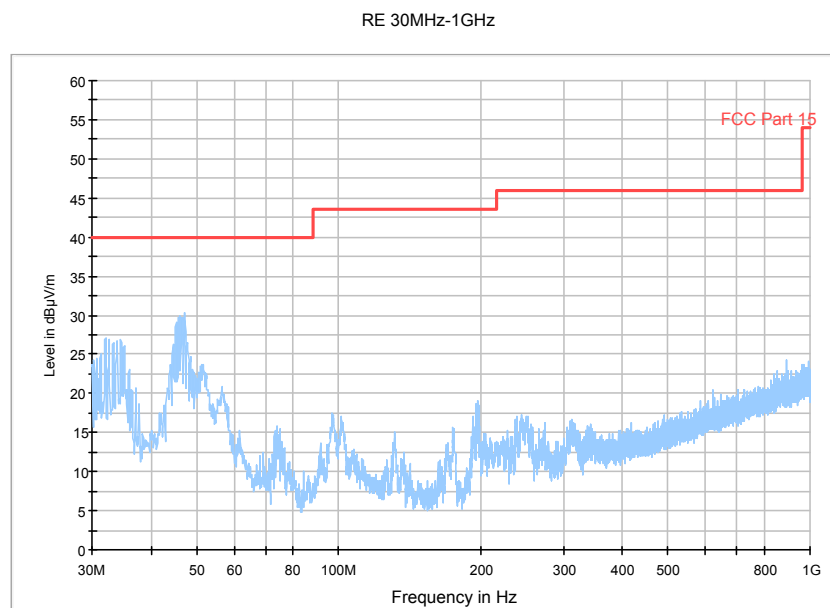


Fig. 171 Radiated Spurious Emission (802.11ac-HT20, ch120, 30 MHz-1 GHz)

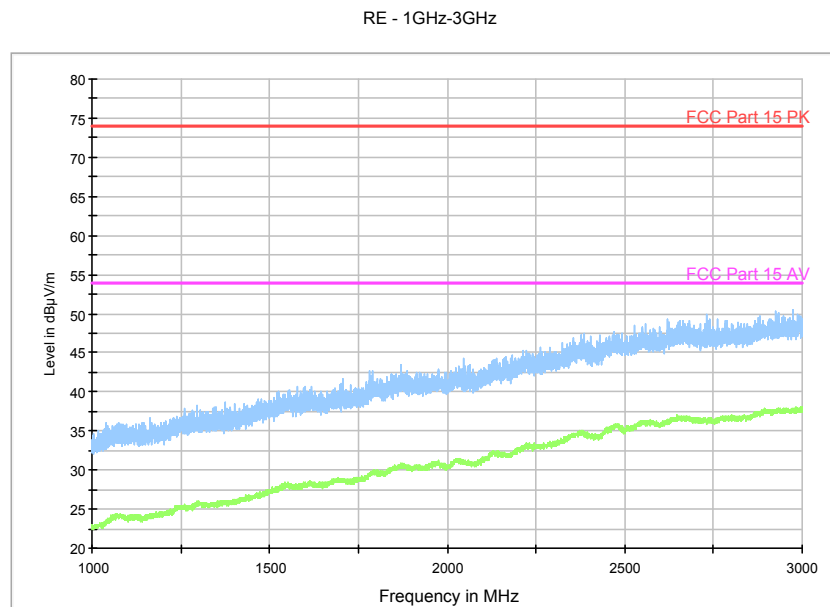
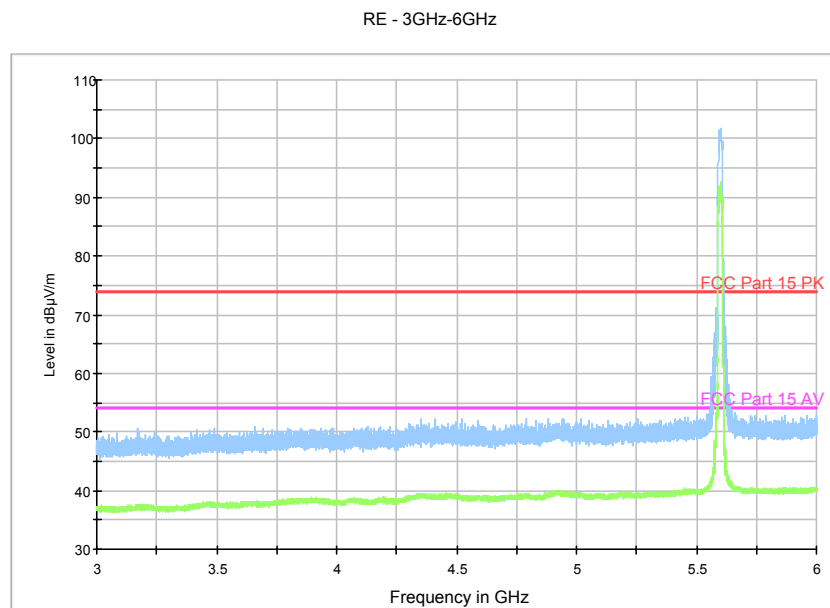


Fig. 172 Radiated Spurious Emission (802.11ac-HT20, ch120, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 173 Radiated Spurious Emission (802.11ac-HT20, ch120, 3 GHz-6 GHz)

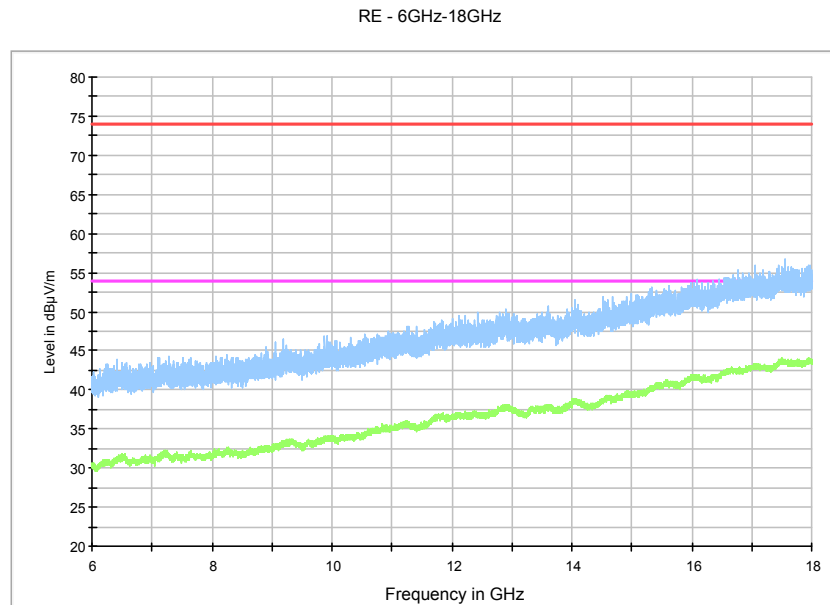


Fig. 174 Radiated Spurious Emission (802.11ac-HT20, ch120, 6 GHz-18 GHz)

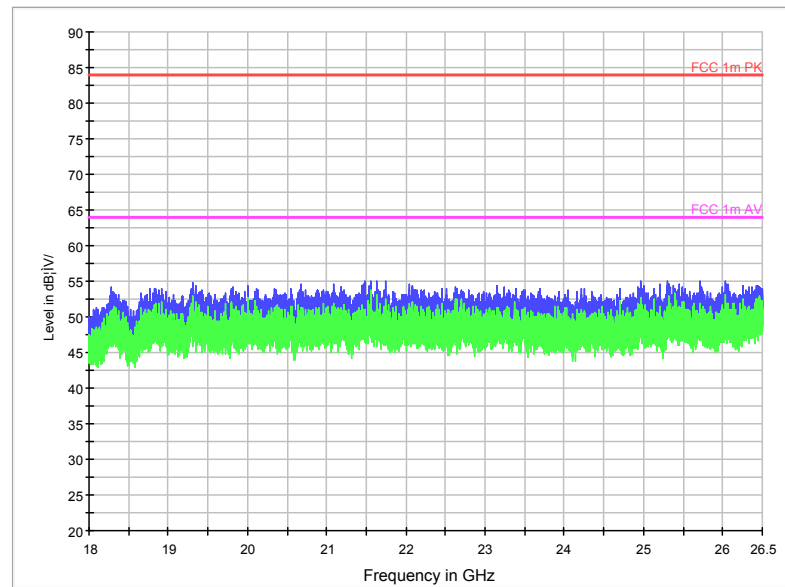


Fig. 175 Radiated Spurious Emission (802.11ac-HT20, ch120, 18 GHz-26.5 GHz)

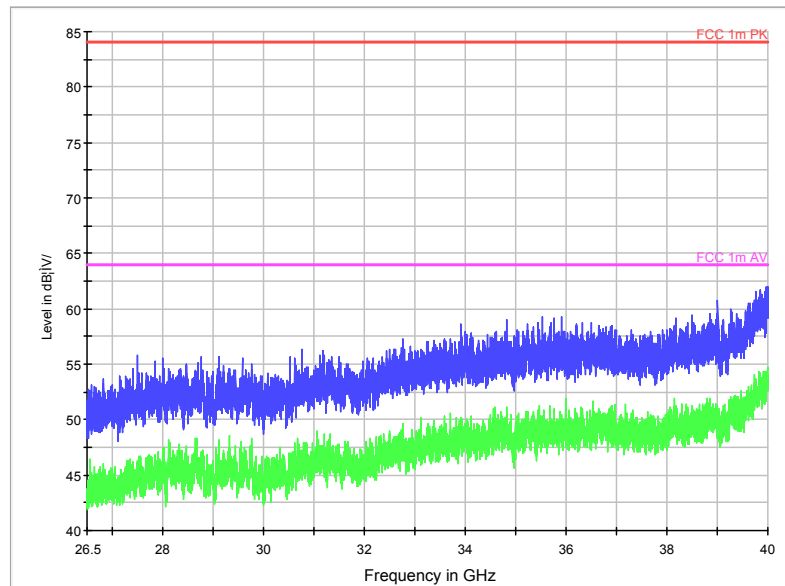


Fig. 176 Radiated Spurious Emission (802.11ac-HT20, ch120, 26.5 GHz-40 GHz)

RE - 1GHz-3GHz

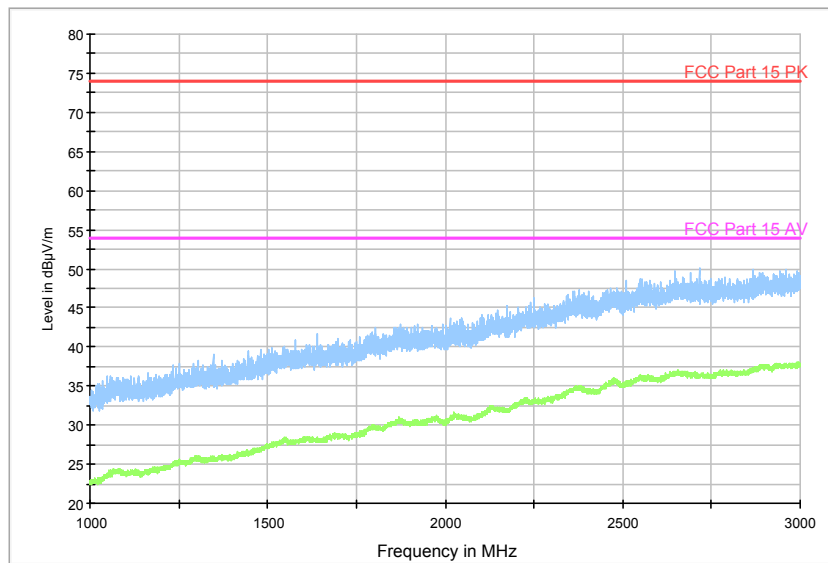
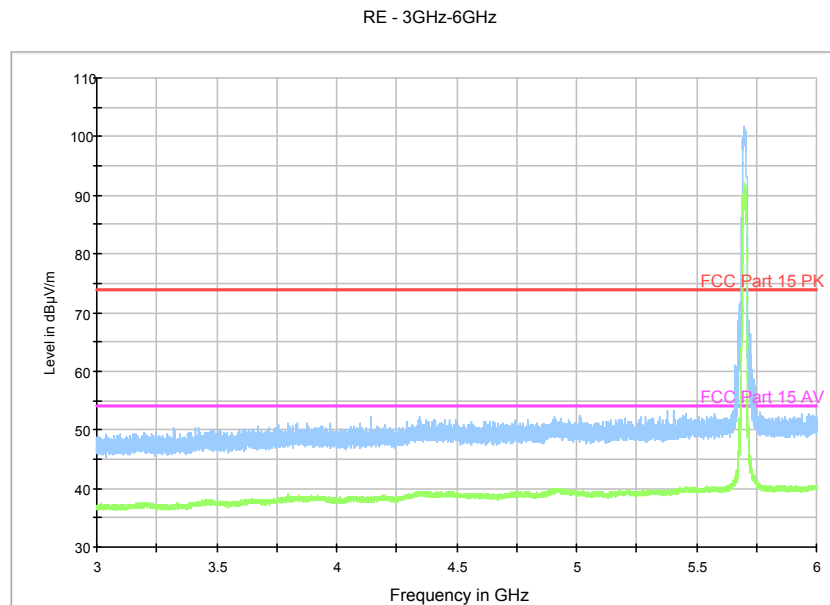


Fig. 177 Radiated Spurious Emission (802.11ac-HT20, ch140, 1 GHz-3GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 178 Radiated Spurious Emission (802.11ac-HT20, ch140, 3GHz-6GHz)

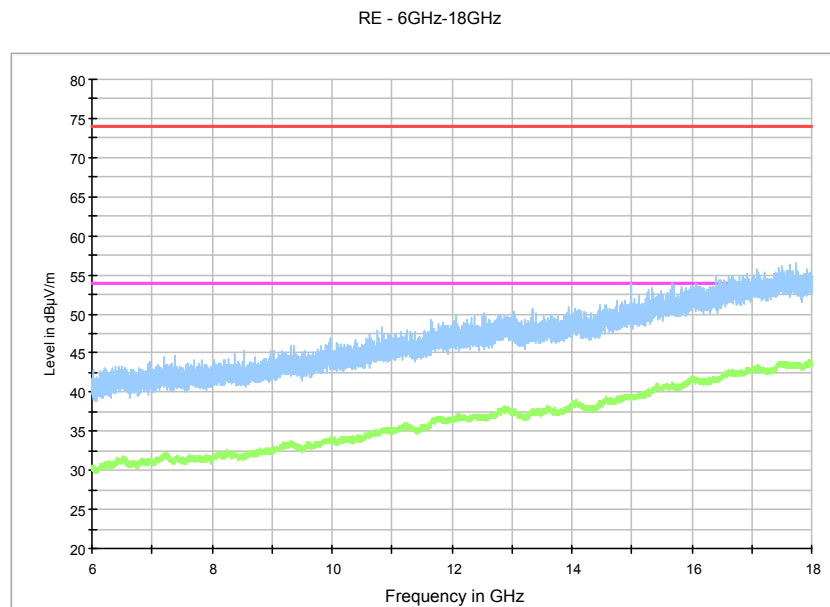


Fig. 179 Radiated Spurious Emission (802.11ac-HT20, ch140, 6 GHz-18 GHz)

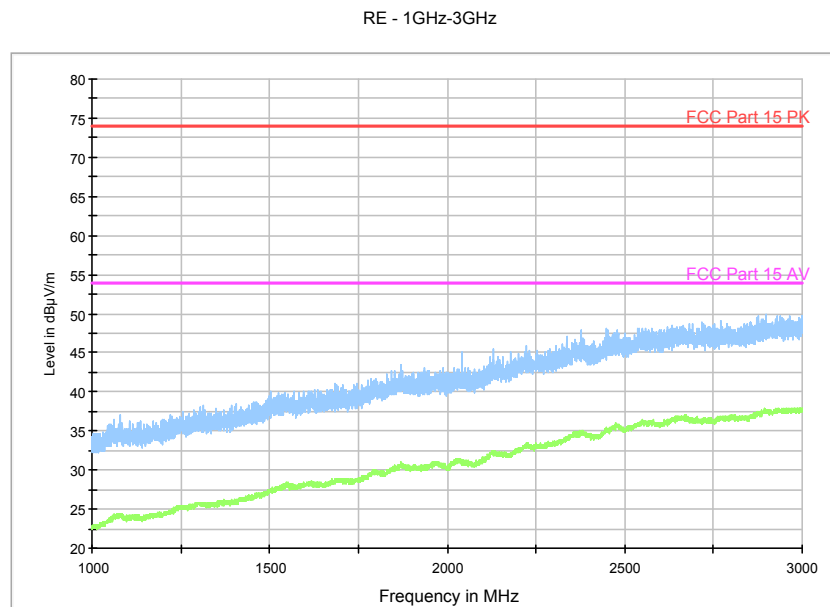
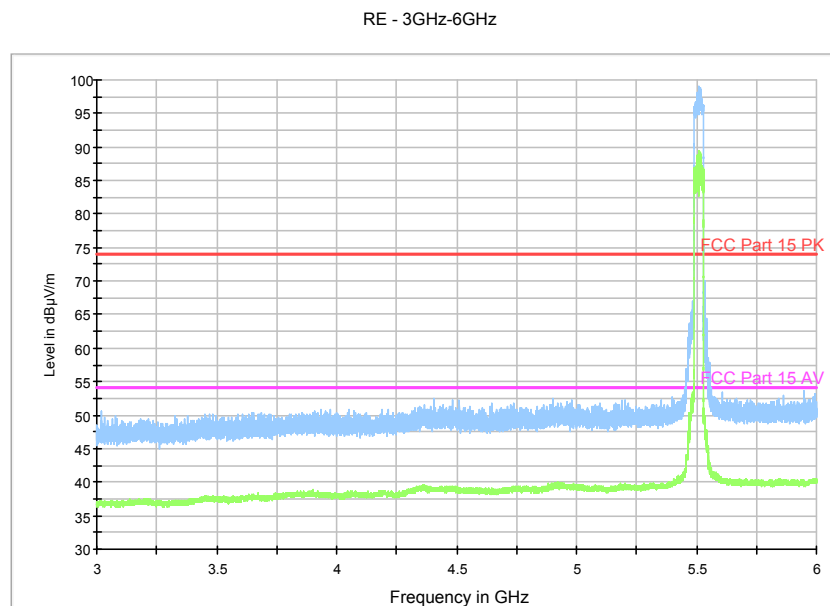


Fig. 180 Radiated Spurious Emission (802.11ac-HT40, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 181 Radiated Spurious Emission (802.11ac-HT40, ch100, 3 GHz-6 GHz)

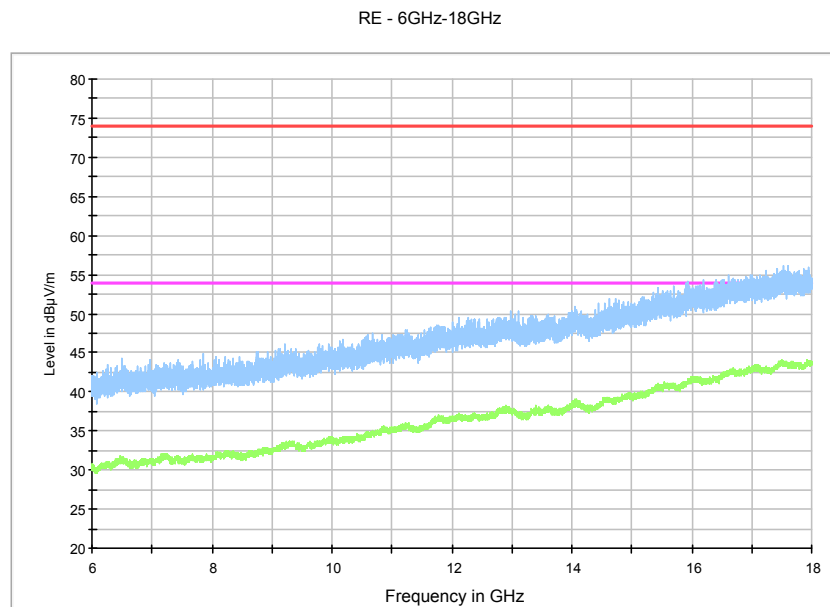


Fig. 182 Radiated Spurious Emission (802.11ac-HT40, ch100, 6 GHz-18 GHz)

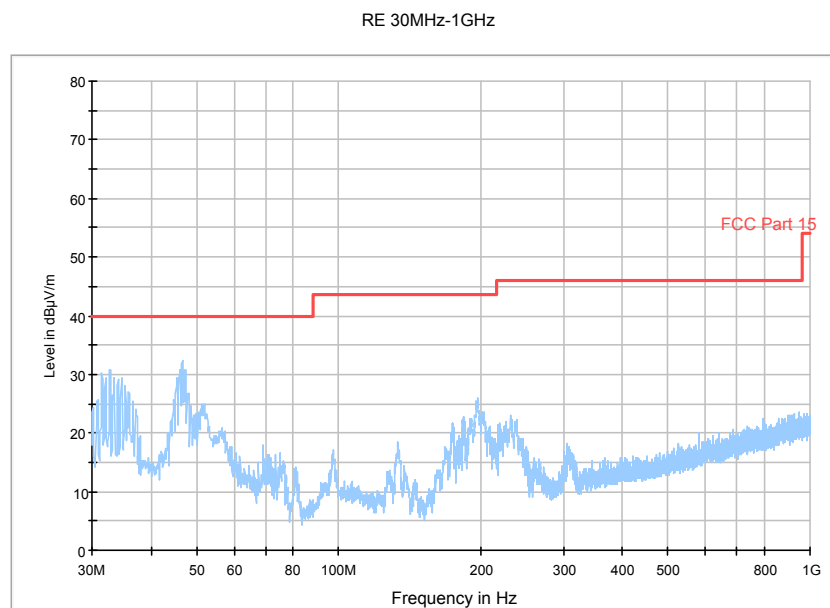


Fig. 183 Radiated Spurious Emission (802.11ac-HT40, ch116, 30 MHz-1 GHz)

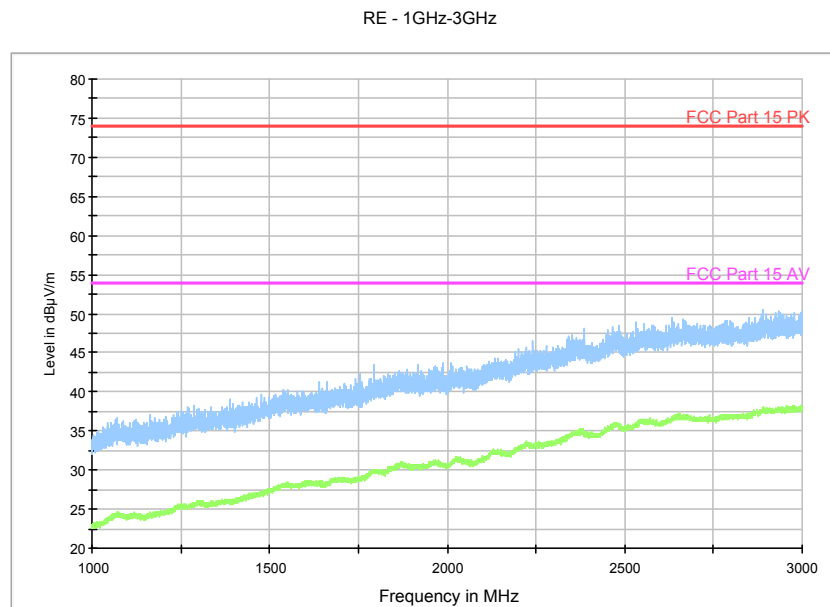
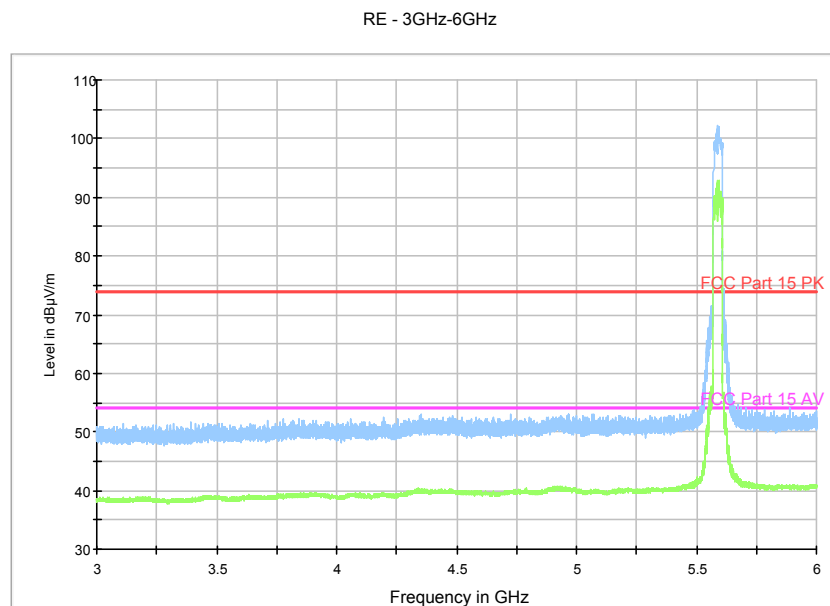


Fig. 184 Radiated Spurious Emission (802.11ac-HT40, ch116, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 185 Radiated Spurious Emission (802.11ac-HT40, ch116, 3 GHz-6 GHz)

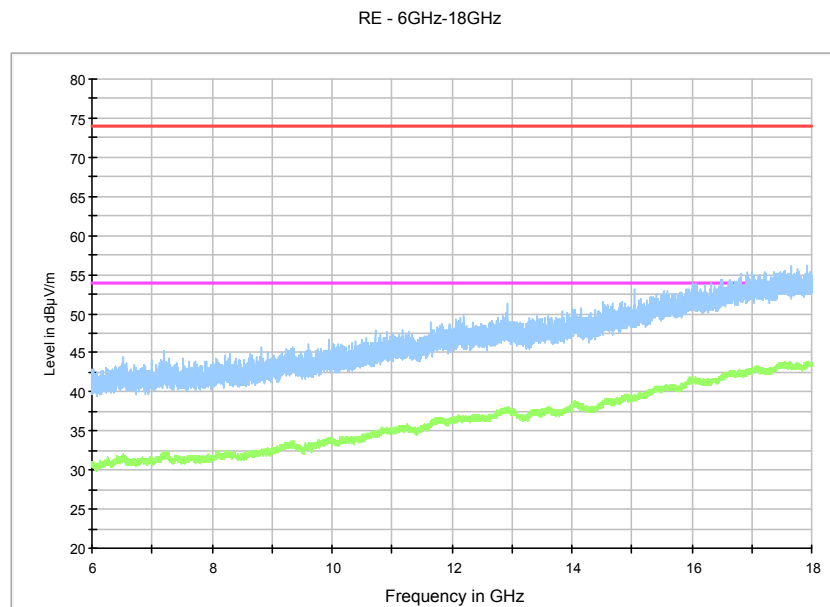


Fig. 186 Radiated Spurious Emission (802.11ac-HT40, ch116, 6 GHz-18 GHz)

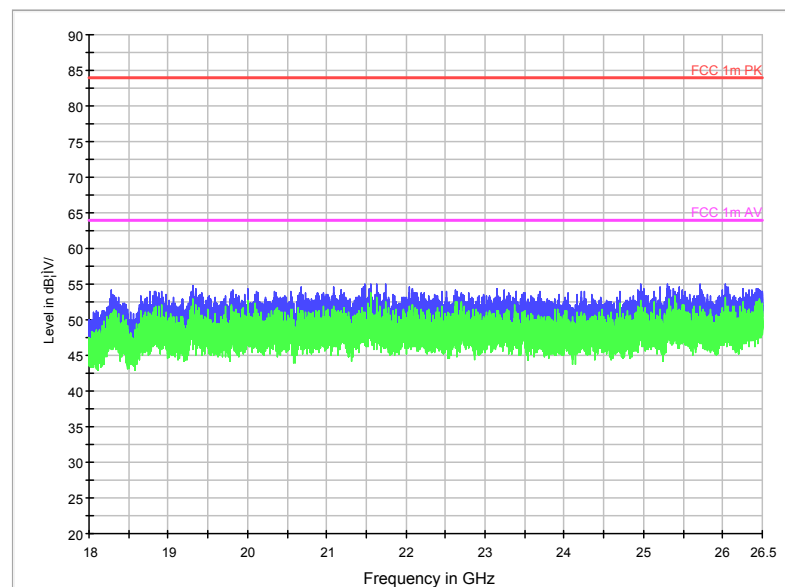


Fig. 187 Radiated Spurious Emission (802.11ac-HT40, ch116, 18 GHz-26.5 GHz)

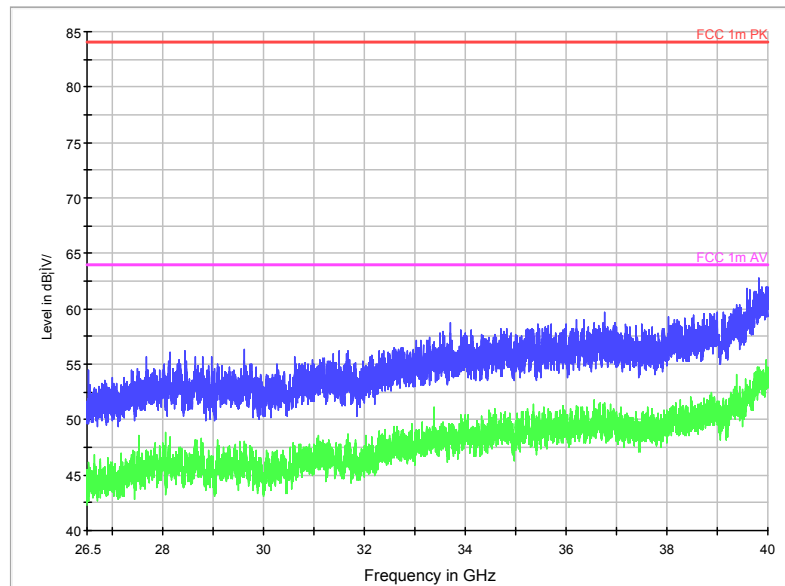


Fig. 188 Radiated Spurious Emission (802.11ac-HT40, ch116, 26.5 GHz-40 GHz)

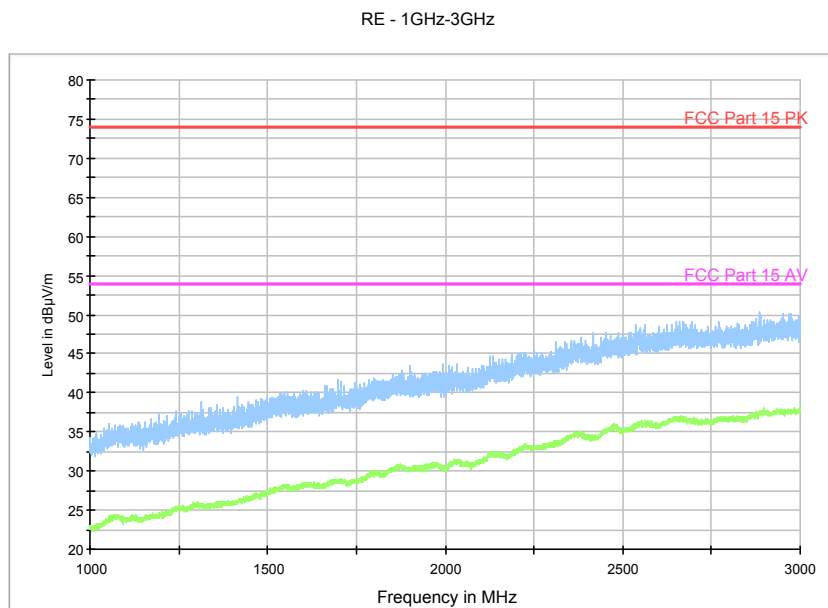
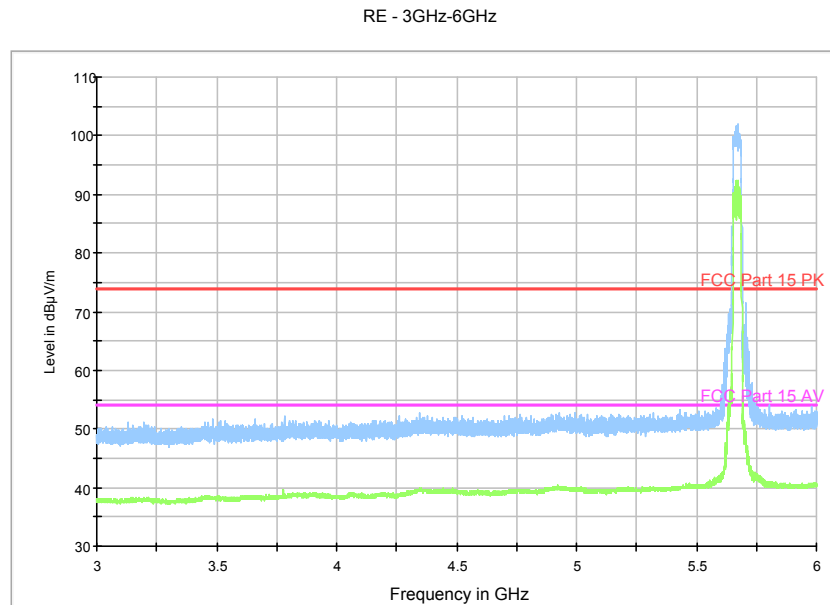


Fig. 189 Radiated Spurious Emission (802.11ac-HT40, ch132, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 190 Radiated Spurious Emission (802.11ac-HT40, ch132, 3 GHz-6 GHz)

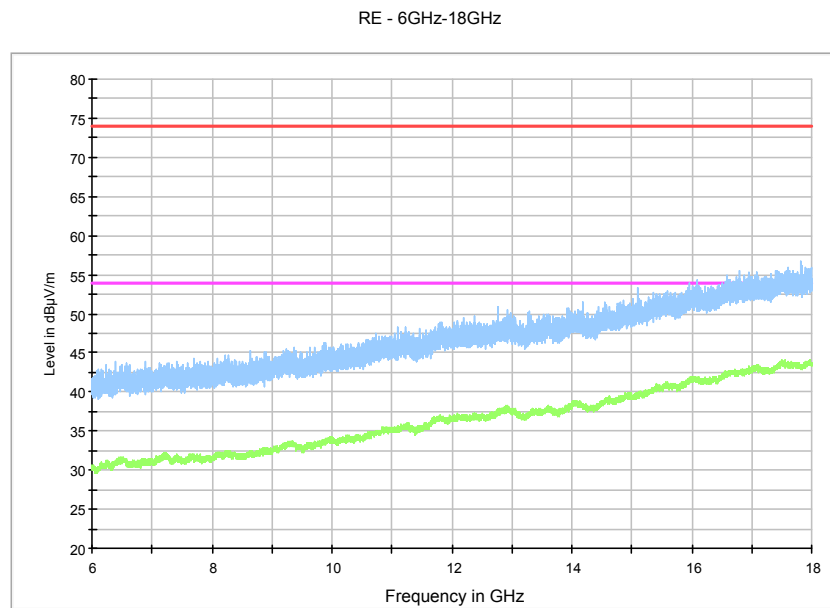


Fig. 191 Radiated Spurious Emission (802.11ac-HT40, ch132, 6 GHz-18 GHz)

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT80	36(5210MHz)	1 GHz ~ 3 GHz	Fig.192	P
		3 GHz ~ 6 GHz	Fig.193	P
		6 GHz ~ 18 GHz	Fig.194	P
	52(5290MHz)	30 MHz ~1 GHz	Fig.195	P
		1 GHz ~ 3 GHz	Fig.196	P
		3 GHz ~ 6 GHz	Fig.197	P
		6 GHz ~ 18 GHz	Fig.198	P
		18 GHz ~ 26.5 GHz	Fig.199	P
		26.5 GHz ~ 40 GHz	Fig.200	P
	100(5530MHz)	1 GHz ~ 3 GHz	Fig.201	P
		3 GHz ~ 6 GHz	Fig.202	P
		6 GHz ~ 18 GHz	Fig.203	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.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable\ Loss+Antenna\ Factor$

802.11ac-HT80

Channel 36

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5150.000	45.2	-34.3	34.5	44.966	V
17962.800	44.1	-23.3	41.0	26.433	V
17533.200	44.0	-23.9	41.2	26.653	H
17974.800	43.9	-23.3	41.0	26.233	V
17464.800	43.9	-23.9	41.2	26.553	V
17958.600	43.9	-23.3	41.0	26.233	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5144.500	59.0	-34.3	34.5	58.766	V
17807.400	55.9	-23.4	41.0	38.272	H
17814.600	55.9	-23.3	41.0	38.233	V
16860.600	55.7	-24.7	41.5	38.947	V
17590.800	55.7	-23.9	41.2	38.353	H
17923.200	55.6	-23.3	41.0	37.933	V

Channel 52

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5350.110	43.5	-33.9	34.4	42.972	V
17969.400	44.1	-23.3	41.0	26.433	H
17958.000	44.0	-23.3	41.0	26.333	V
17921.400	43.9	-23.3	41.0	26.233	H
17961.600	43.9	-23.3	41.0	26.233	H
17990.400	43.9	-23.0	41.0	25.947	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5350.200	60.4	-33.9	34.4	59.872	V
17472.600	56.2	-23.9	41.2	38.853	V
17064.600	56.1	-24.6	41.4	39.315	H
17907.600	56.0	-23.3	41.0	38.333	V
17533.200	56.0	-23.9	41.2	38.653	H
17479.800	56.0	-23.9	41.2	38.653	V



Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5459.998	48.4	-33.3	34.4	47.263	V
17991.000	44.0	-23.0	41.0	26.047	H
17913.600	44.0	-23.3	41.0	26.333	V
17979.600	43.9	-23.3	41.0	26.233	H
17988.600	43.9	-23.0	41.0	25.947	V
17721.600	43.9	-23.4	41.2	26.072	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5451.118	63.4	-33.3	34.4	62.263	V
17520.000	55.9	-23.9	41.2	38.553	V
17517.600	55.8	-23.9	41.2	38.453	V
17786.400	55.7	-23.4	41.0	38.072	H
17952.000	55.7	-23.3	41.0	38.033	V
17904.000	55.7	-23.3	41.0	38.033	V

Test graphs as below:

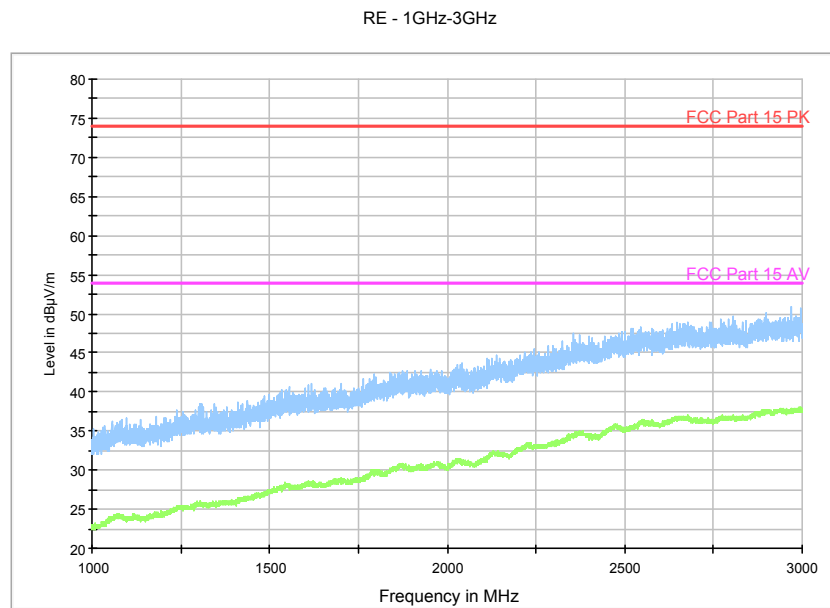
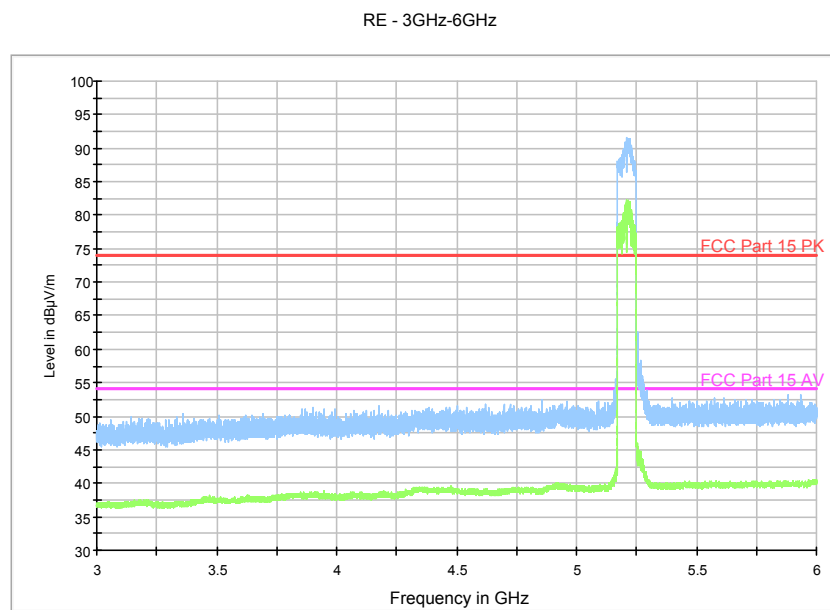


Fig. 192 Radiated Spurious Emission (802.11ac-HT80, ch36, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 193 Radiated Spurious Emission (802.11ac-HT80, ch36, 3 GHz-6 GHz)

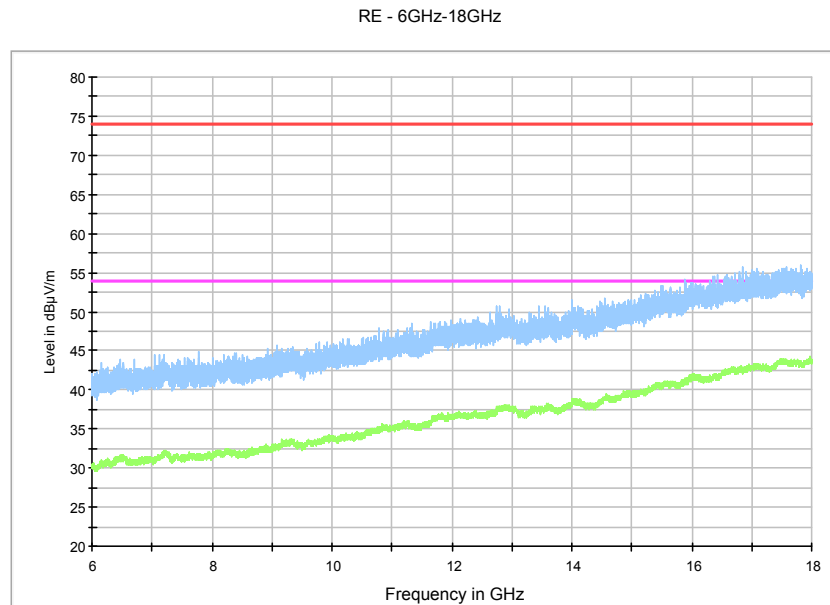


Fig. 194 Radiated Spurious Emission (802.11ac-HT80, ch36, 6 GHz-18 GHz)

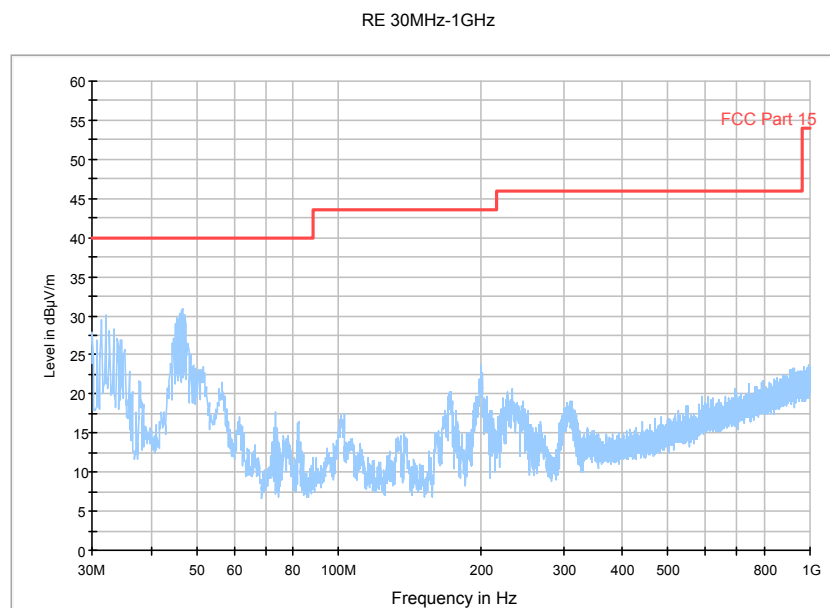


Fig. 195 Radiated Spurious Emission (802.11ac-HT80, ch52, 30 MHz-1 GHz)

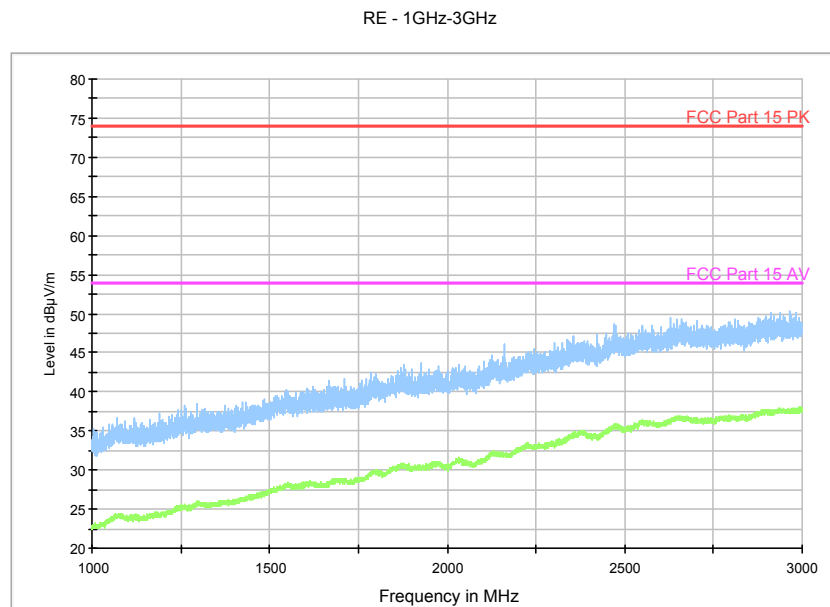
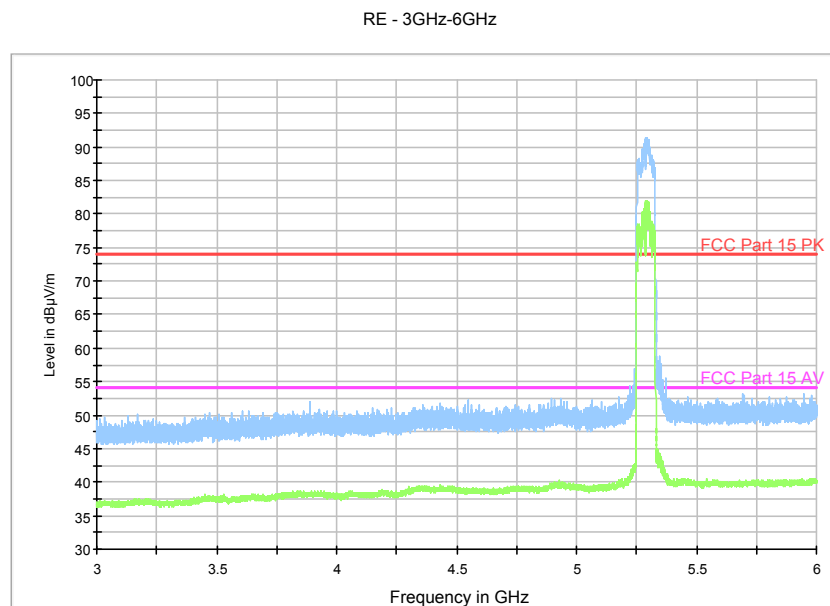


Fig. 196 Radiated Spurious Emission (802.11ac-HT80, ch52, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 197 Radiated Spurious Emission (802.11ac-HT80, ch52, 3 GHz-6 GHz)

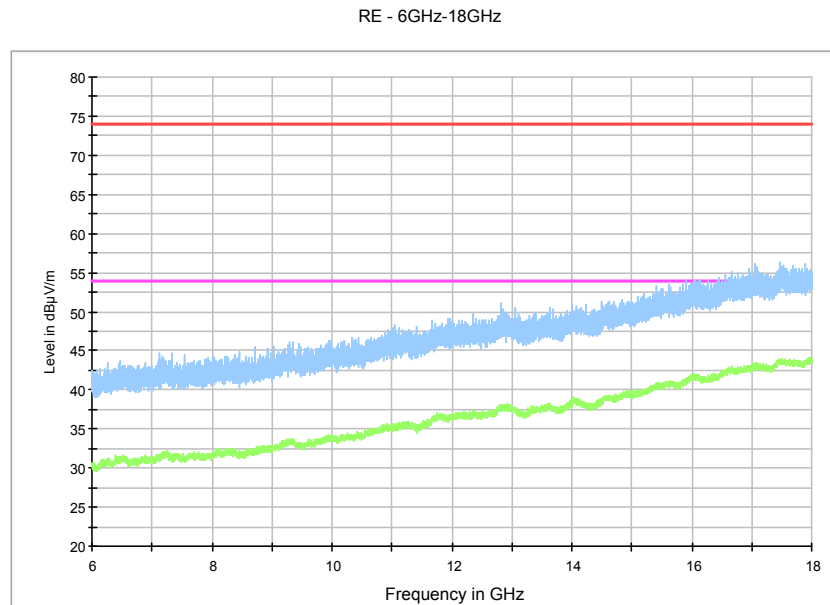


Fig. 198 Radiated Spurious Emission (802.11ac-HT80, ch52, 6 GHz-18 GHz)

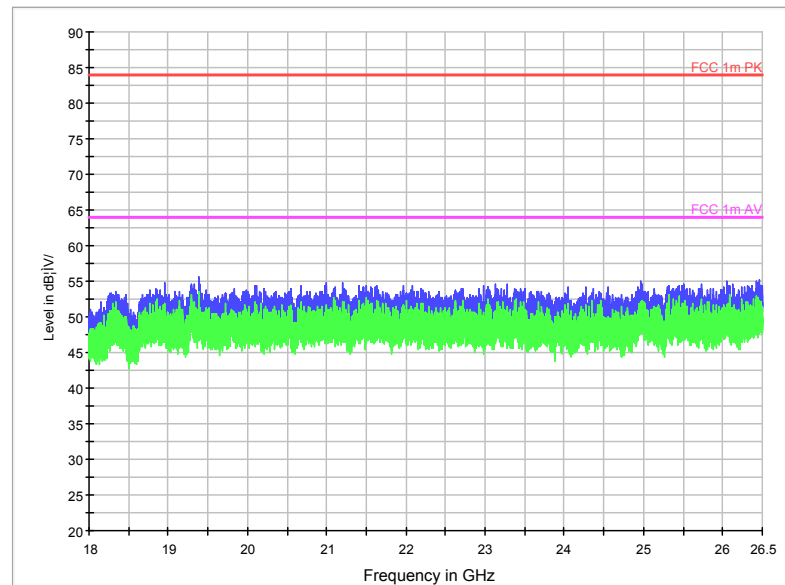


Fig. 199 Radiated Spurious Emission (802.11ac-HT80, ch52, 18 GHz-26.5 GHz)

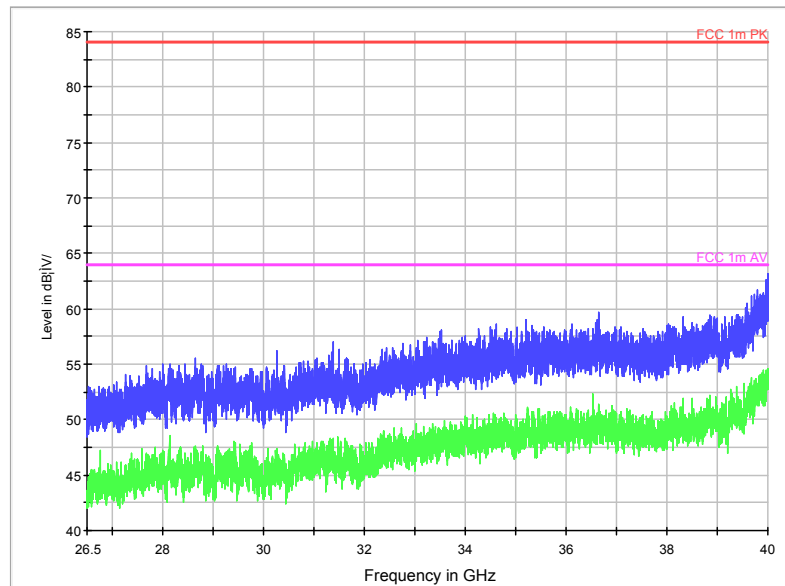


Fig. 200 Radiated Spurious Emission (802.11ac-HT80, ch58, 26.5 GHz-40 GHz)

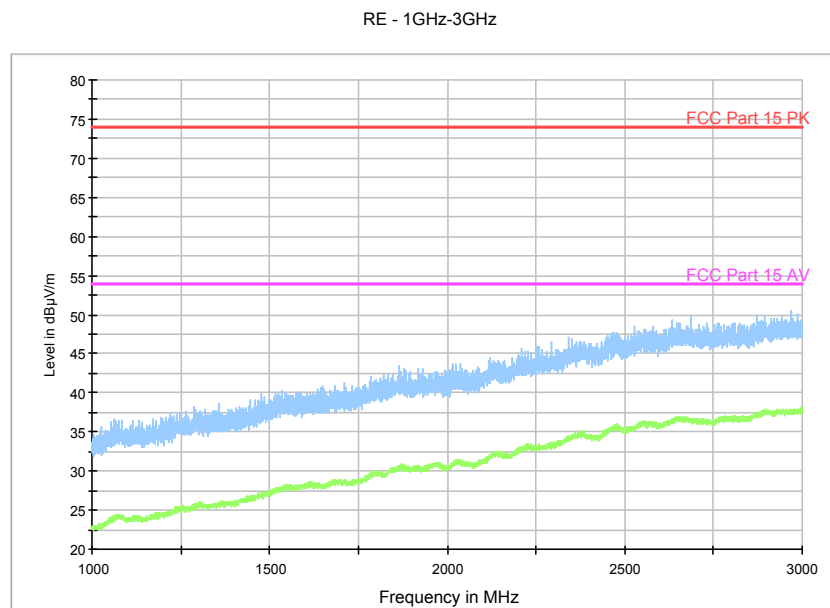
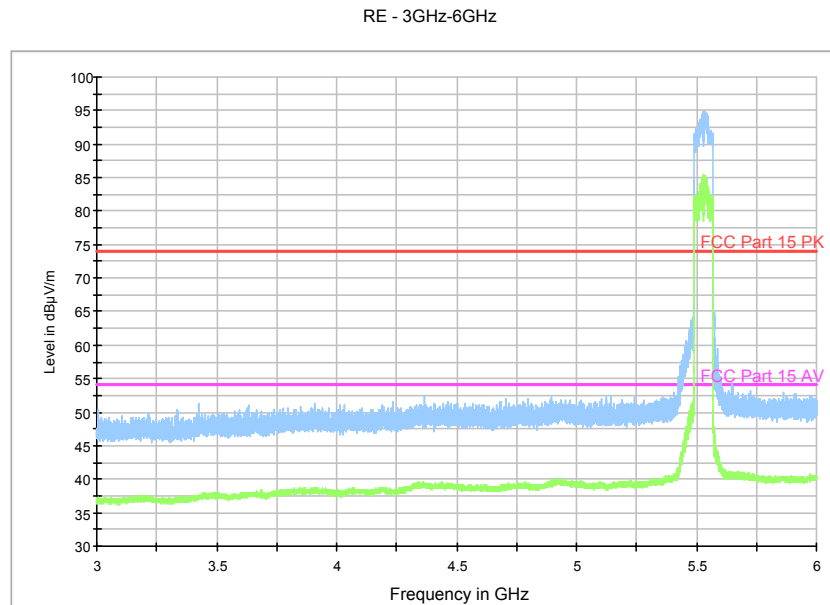


Fig. 201 Radiated Spurious Emission (802.11ac-HT80, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 202 Radiated Spurious Emission (802.11ac-HT80, ch100, 3 GHz-6 GHz)

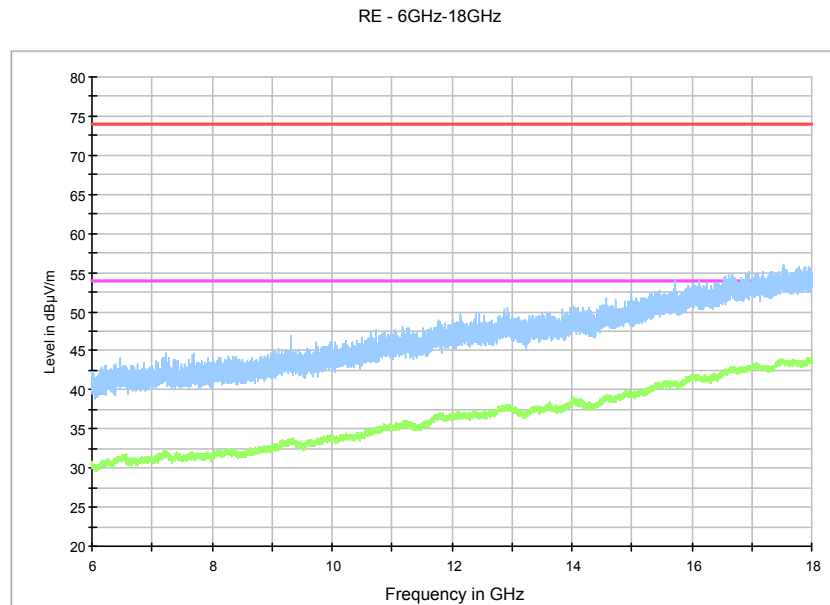


Fig. 203 Radiated Spurious Emission (802.11ac-HT80, ch100, 6 GHz-18 GHz)

A.4. Spurious Emissions Radiated < 30MHz

Measurement Limit (15.209):

Frequency (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance(m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	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 is recalculated based on the extrapolation factor of 40 dB/decade.

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 2.6\text{dB}$, $k=2$.

Measurement Results:

Mode	Frequency Range	Test Results	Conclusion
802.11a	9 kHz ~30 MHz	Fig.204	P

Conclusion: PASS

Test graphs as below:

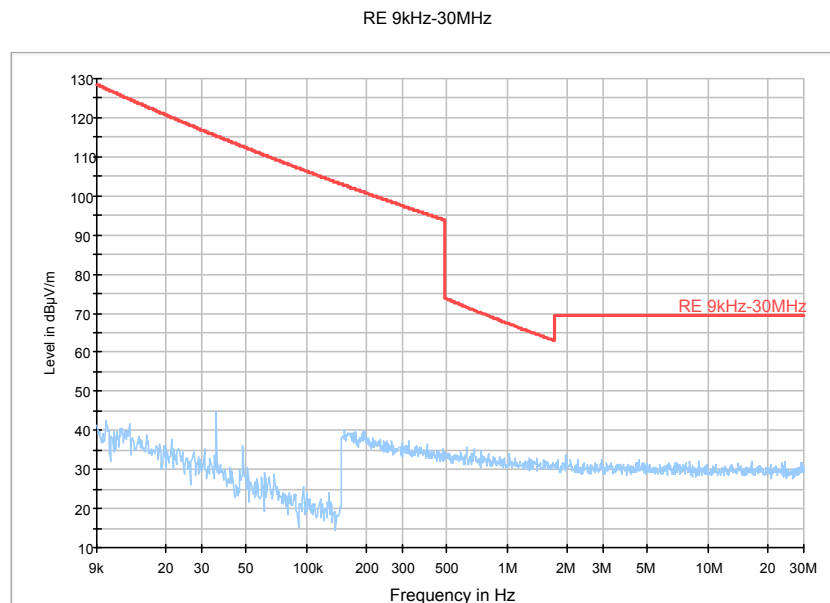


Fig. 204 Radiated Spurious Emission (802.11a, ch40, 9 kHz ~30 MHz)

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