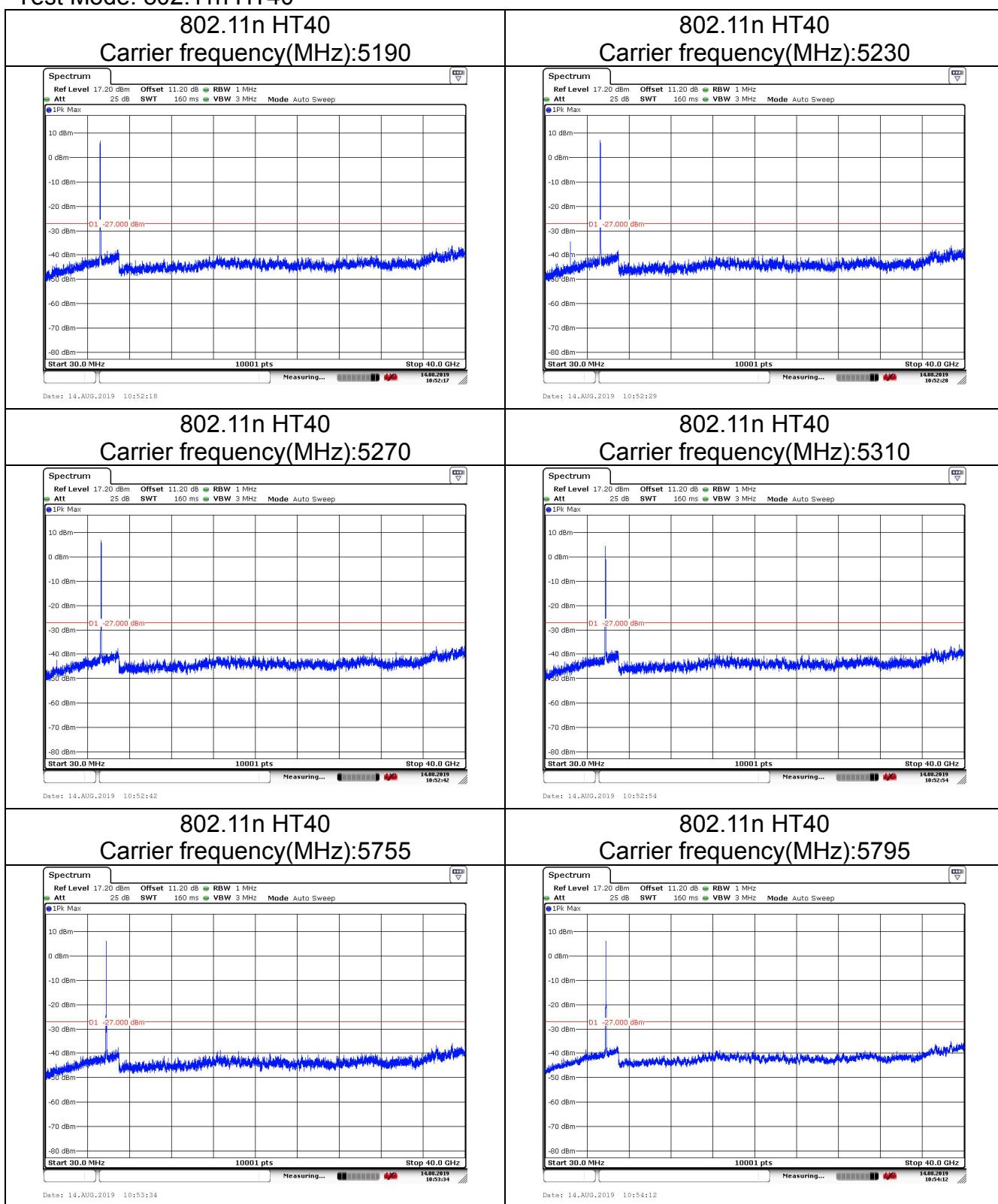


Test Mode: 802.11n HT40



Frequency Stability

Band	Mode	Data Rate	Frequency (MHz)	Frequency Stability(ppm)	Voltage(V)	Temperature(°C)
U-NII-2A	11a	6Mbps	5180	-0.94	NV	0
	11a	6Mbps	5180	0.84	NV	+10
	11a	6Mbps	5180	0.05	HV	+20
	11a	6Mbps	5180	-0.12	LV	+20
	11a	6Mbps	5180	0.94	NV	+20
	11a	6Mbps	5180	-0.02	NV	+30
	11a	6Mbps	5180	0.59	NV	+40
	11a	6Mbps	5180	0.68	NV	+50
U-NII-2A	11a	6Mbps	5320	0.92	NV	0
	11a	6Mbps	5320	-0.92	NV	+10
	11a	6Mbps	5320	0.18	HV	+20
	11a	6Mbps	5320	-0.45	LV	+20
	11a	6Mbps	5320	-0.77	NV	+20
	11a	6Mbps	5320	0.46	NV	+30
	11a	6Mbps	5320	-0.81	NV	+40
	11a	6Mbps	5320	0.67	NV	+50
U-NII-3	11a	6Mbps	5825	0.75	NV	0
	11a	6Mbps	5825	-0.03	NV	+10
	11a	6Mbps	5825	0.93	HV	+20
	11a	6Mbps	5825	0.23	LV	+20
	11a	6Mbps	5825	0.26	NV	+20
	11a	6Mbps	5825	-0.72	NV	+30
	11a	6Mbps	5825	0.53	NV	+40
	11a	6Mbps	5825	0.03	NV	+50

Dynamic Frequency Selection

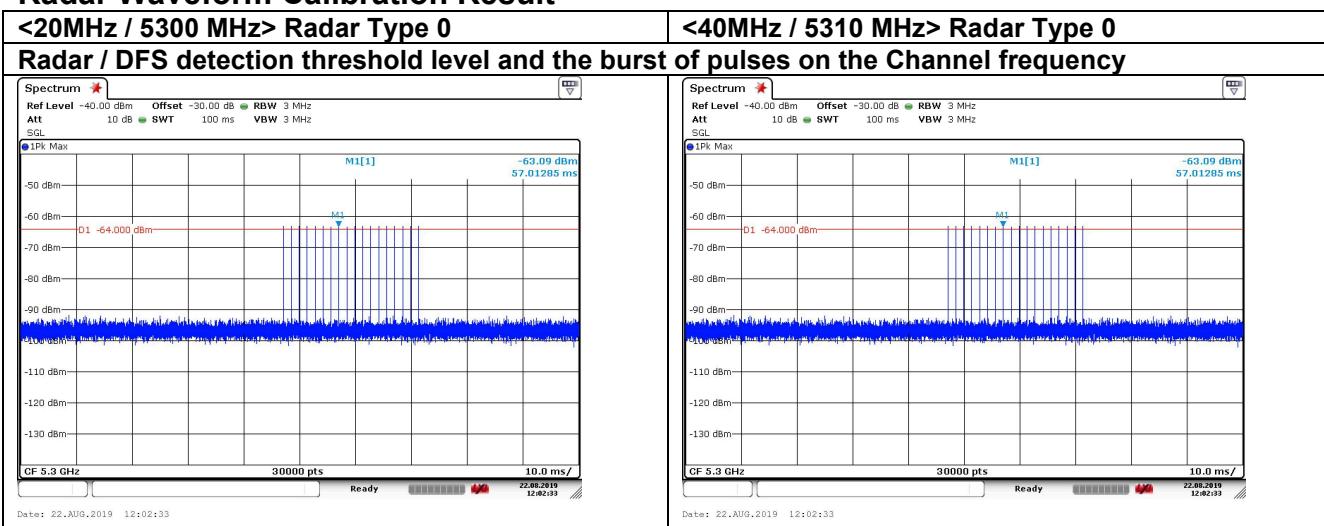
DESCRIPTION OF Master Device

The Master Device is a SKSpruce Technologies Co., Ltd., Indoor Access Point, FCC ID: 2AHKT-WIA3300-20. The minimum antenna gain for the Master Device is 3 dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

Radar Waveform Calibration Result

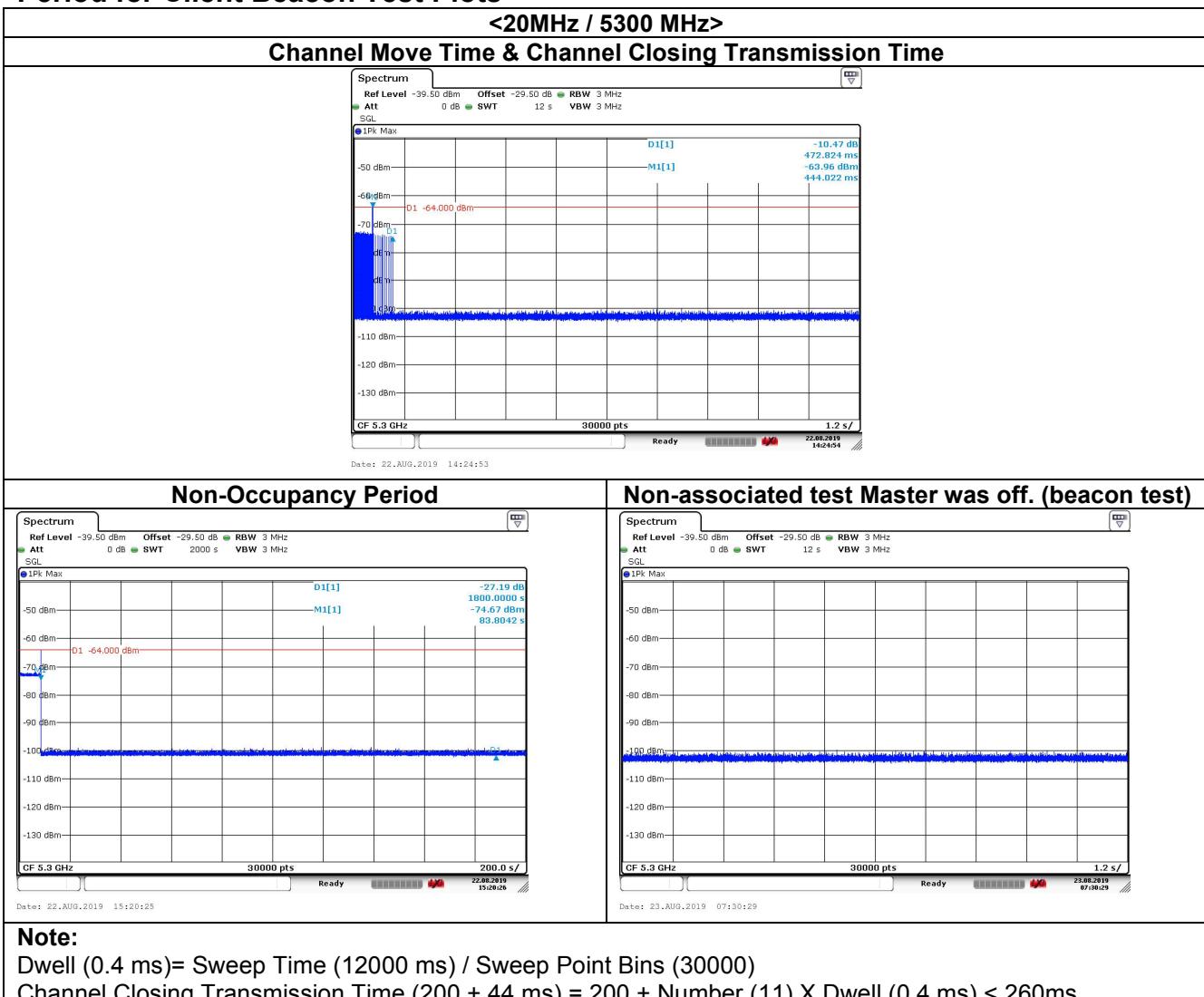


Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
20MHz / 5300MHz	Channel Move Time	0.472824 s	< 10s	Pass
	Channel Closing Transmission Time	200ms + 44 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
40MHz / 5310MHz	Channel Move Time	0.468203 s	< 10s	Pass
	Channel Closing Transmission Time	200ms + 44 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass

Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

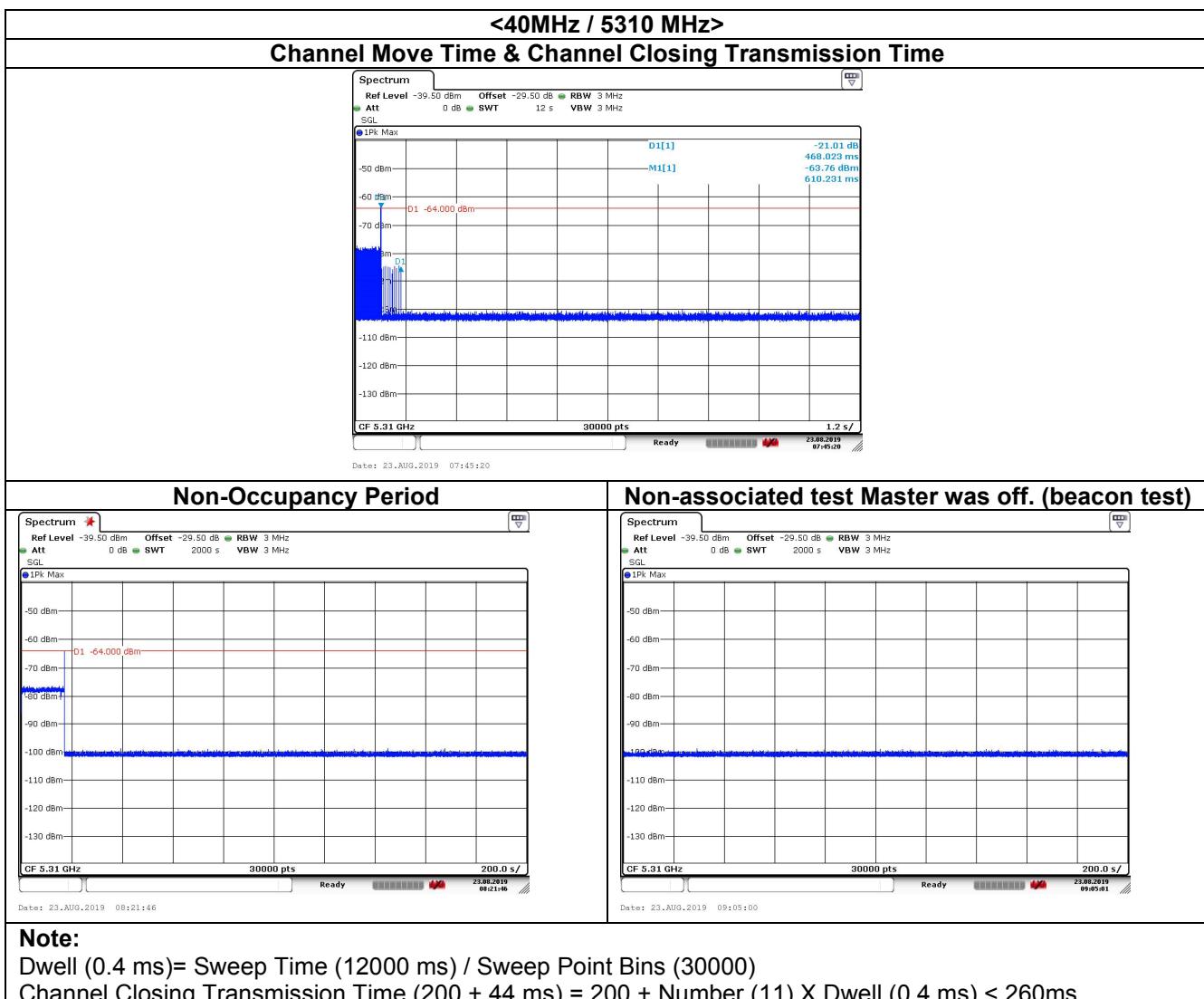
Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test Plots



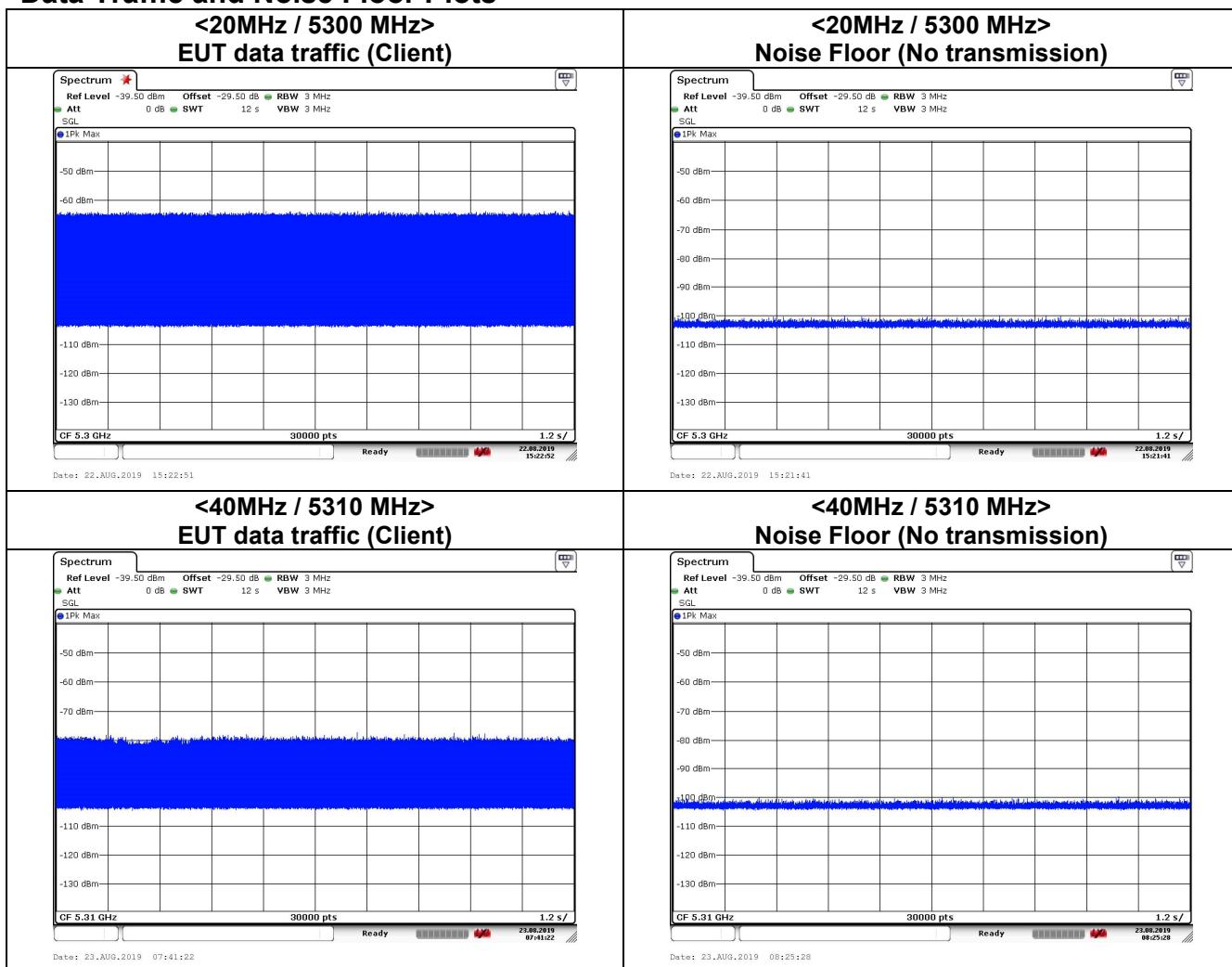
Note:

Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)

Channel Closing Transmission Time (200 + 44 ms) = 200 + Number (11) X Dwell (0.4 ms) < 260ms



Data Traffic and Noise Floor Plots



APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: (103.99 dB μ V/m) = (57.09 dB μ V) + (12.4 dB) + (34.5 dB), the corresponding frequency is 5180MHz.

Carrier frequency (MHz): 5180 MHz

Channel No.:36

Test Mode: 802.11a

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	103.99	57.09	N/A	N/A	12.4	34.5
2	5150	54.11	7.21	-19.89	74	12.4	34.5

Carrier frequency (MHz): 5180

Channel No.:36

Test Mode: 802.11a

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	99.51	52.61	N/A	N/A	12.4	34.5
2	5150	53.90	7.00	-20.10	74	12.4	34.5

Carrier frequency (MHz): 5180 MHz

Channel No.: 36

Test Mode: 802.11a

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	97.46	50.56	N/A	N/A	12.4	34.5
2	5150	40.62	-6.28	-13.38	54	12.4	34.5

Carrier frequency (MHz): 5180 MHz

Channel No.: 36

Test Mode: 802.11a

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	93.07	46.17	N/A	N/A	12.4	34.5
2	5150	40.36	-6.54	-13.64	54	12.4	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11a

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	103.55	56.45	N/A	N/A	12.6	34.5
2	5350	54.09	6.99	-19.91	74	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11a

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	99.30	52.20	N/A	N/A	12.6	34.5
2	5350	53.73	6.63	-20.27	74	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11a

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	95.29	48.19	N/A	N/A	12.6	34.5
2	5350	43.78	-3.32	-10.22	54	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11a

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	91.19	44.09	N/A	N/A	12.6	34.5
2	5350	43.43	-3.67	-10.57	54	12.6	34.5

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11a

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	cable loss (dB)	antenna factor (dB)
1	5745	103.98	56.38	N/A	N/A	12.9	34.7
2	5725	54.50	6.90	-19.50	74	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11a

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5745	99.91	52.31	N/A	N/A	12.9	34.7
2	5725	53.56	5.96	-20.44	74	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11a

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	cable loss (dB)	antenna factor (dB)
1	5745	96.55	48.95	N/A	N/A	12.9	34.7
2	5725	42.65	-4.95	-11.35	54	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11a

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5745	91.82	44.22	N/A	N/A	12.9	34.7
2	5725	42.21	-5.39	-11.79	54	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11a

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	103.80	56.20	N/A	N/A	12.9	34.7
2	5850	54.38	6.78	-19.62	74	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11a

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	99.12	51.52	N/A	N/A	12.9	34.7
2	5850	53.63	6.03	-20.37	74	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11a

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	96.08	48.48	N/A	N/A	12.9	34.7
2	5850	41.94	-5.66	-12.06	54	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11a

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	91.17	43.57	N/A	N/A	12.9	34.7
2	5850	41.12	-6.48	-12.88	54	12.9	34.7

Carrier frequency (MHz): 5180 MHz

Channel No.:36

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	103.39	56.49	N/A	N/A	12.4	34.5
2	5150	53.97	7.07	-20.03	74	12.4	34.5

Carrier frequency (MHz): 5180

Channel No.:36

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	98.63	51.73	N/A	N/A	12.4	34.5
2	5150	54.30	7.40	-19.70	74	12.4	34.5

Carrier frequency (MHz): 5180 MHz

Channel No.: 36

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	97.28	50.38	N/A	N/A	12.4	34.5
2	5150	40.73	-6.17	-13.27	54	12.4	34.5

Carrier frequency (MHz): 5180 MHz

Channel No.: 36

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5180	93.18	46.28	N/A	N/A	12.4	34.5
2	5150	39.90	-7.00	-14.10	54	12.4	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	103.11	56.01	N/A	N/A	12.6	34.5
2	5350	53.73	6.63	-20.27	74	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	99.04	51.94	N/A	N/A	12.6	34.5
2	5350	52.87	5.77	-21.13	74	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	95.25	48.15	N/A	N/A	12.6	34.5
2	5350	43.67	-3.43	-10.33	54	12.6	34.5

Carrier frequency (MHz): 5320 MHz

Channel No.:64

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5320	90.32	43.22	N/A	N/A	12.6	34.5
2	5350	43.06	-4.04	-10.94	54	12.6	34.5

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11n (HT20)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	cable loss (dB)	antenna factor (dB)
1	5745	103.03	55.43	N/A	N/A	12.9	34.7
2	5725	54.33	6.73	-19.67	74	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11n (HT20)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5745	98.43	50.83	N/A	N/A	12.9	34.7
2	5725	53.44	5.84	-20.56	74	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11n (HT20)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	cable loss (dB)	antenna factor (dB)
1	5745	96.81	49.21	N/A	N/A	12.9	34.7
2	5725	42.58	-5.02	-11.42	54	12.9	34.7

Carrier frequency (MHz): 5745 MHz

Channel No.:149

Test Mode: 802.11n (HT20)

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5745	92.30	44.70	N/A	N/A	12.9	34.7
2	5725	42.04	-5.56	-11.96	54	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	103.80	56.20	N/A	N/A	12.9	34.7
2	5850	54.72	7.12	-19.28	74	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	99.01	51.41	N/A	N/A	12.9	34.7
2	5850	54.47	6.87	-19.53	74	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11n (HT20)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	96.34	48.74	N/A	N/A	12.9	34.7
2	5850	41.78	-5.82	-12.22	54	12.9	34.7

Carrier frequency (MHz): 5825 MHz

Channel No.:165

Test Mode: 802.11n (HT20)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5825	91.47	43.87	N/A	N/A	12.9	34.7
2	5850	41.28	-6.32	-12.72	54	12.9	34.7

Carrier frequency (MHz): 5190 MHz

Channel No.:38

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5190	103.51	56.61	N/A	N/A	12.4	34.5
2	5150	53.73	6.83	-20.27	74	12.4	34.5

Carrier frequency (MHz): 5190 MHz

Channel No.:38

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5190	99.05	52.15	N/A	N/A	12.4	34.5
2	5150	54.41	7.51	-19.59	74	12.4	34.5

Carrier frequency (MHz): 5190 MHz

Channel No.:38

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5190	97.35	50.45	N/A	N/A	12.4	34.5
2	5150	40.16	-6.74	-13.84	54	12.4	34.5

Carrier frequency (MHz): 5190 MHz

Channel No.:38

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5190	92.89	45.99	N/A	N/A	12.4	34.5
2	5150	39.54	-7.36	-14.46	54	12.4	34.5

Carrier frequency (MHz): 5310 MHz

Channel No.:62

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5310	103.45	56.35	N/A	N/A	12.6	34.5
2	5350	53.64	6.54	-20.36	74	12.6	34.5

Carrier frequency (MHz): 5310 MHz

Channel No.:62

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5310	99.03	51.93	N/A	N/A	12.6	34.5
2	5350	52.99	5.89	-21.01	74	12.6	34.5

Carrier frequency (MHz): 5310 MHz

Channel No.:62

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5310	95.70	48.60	N/A	N/A	12.6	34.5
2	5350	43.84	-3.26	-10.16	54	12.6	34.5

Carrier frequency (MHz): 5310 MHz

Channel No.:62

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5310	90.83	43.73	N/A	N/A	12.6	34.5
2	5350	43.32	-3.78	-10.68	54	12.6	34.5

Carrier frequency (MHz): 5755 MHz

Channel No.:151

Test Mode: 802.11n(HT40)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5755	103.48	55.88	N/A	N/A	12.9	34.7
2	5725	54.87	7.27	-19.13	74	12.9	34.7

Carrier frequency (MHz): 5755 MHz

Channel No.:151

Test Mode: 802.11n(HT40)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5755	98.62	51.02	N/A	N/A	12.9	34.7
2	5725	54.49	6.89	-19.51	74	12.9	34.7

Carrier frequency (MHz): 5755 MHz

Channel No.:151

Test Mode: 802.11n(HT40)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5755	96.82	49.22	N/A	N/A	12.9	34.7
2	5725	42.23	-5.37	-11.77	54	12.9	34.7

Carrier frequency (MHz): 5755 MHz

Channel No.:151

Test Mode: 802.11n(HT40)

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5755	92.70	45.10	N/A	N/A	12.9	34.7
2	5725	41.80	-5.80	-12.20	54	12.9	34.7

Carrier frequency (MHz): 5795 MHz

Channel No.:159

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5795	103.31	55.71	N/A	N/A	12.9	34.7
2	5850	53.91	6.31	-20.09	74	12.9	34.7

Carrier frequency (MHz): 5795 MHz

Channel No.:159

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5795	98.80	51.20	N/A	N/A	12.9	34.7
2	5850	53.25	5.65	-20.75	74	12.9	34.7

Carrier frequency (MHz): 5795 MHz

Channel No.:159

Test Mode: 802.11n (HT40)

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5795	96.99	49.39	N/A	N/A	12.9	34.7
2	5850	42.67	-4.93	-11.33	54	12.9	34.7

Carrier frequency (MHz): 5795 MHz

Channel No.:159

Test Mode: 802.11n (HT40)

Polarity:Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	cable loss (dB)	antenna factor (dB)
1	5795	92.07	44.47	N/A	N/A	12.9	34.7
2	5850	42.30	-5.30	-11.70	54	12.9	34.7

Sample Calculations

Determining Spurious Emissions Levels

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.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Sample calculation: (29.58 dB μ V/m) = (56.58 dB μ V) + (-27.0 dB/m), the corresponding frequency is 31.164000MHz.

The worst case attitude: The mobile lay down.

For 802.11a Channel No.:36

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.58	-27.0	56.58	Vertical	40.00
40.864000	35.16	-23.9	59.06	Vertical	40.00
59.827500	27.69	-24.2	51.89	Vertical	40.00
60.070000	26.04	-24.2	50.24	Vertical	40.00
60.361000	27.06	-24.3	51.36	Vertical	40.00
84.320000	28.89	-28.6	57.49	Vertical	40.00

For 802.11n(HT20) Channel No.:36

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.61	-27.0	56.61	Vertical	40.00
40.815500	35.05	-23.9	58.95	Vertical	40.00
60.118500	29.56	-24.2	53.76	Vertical	40.00
60.652000	26.78	-24.4	51.18	Vertical	40.00
85.484000	28.70	-28.3	57	Vertical	40.00
85.920500	28.70	-28.1	56.8	Vertical	40.00

For 802.11a Channel No.:40

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.52	-27.0	56.52	Vertical	40.00
41.009500	35.15	-23.8	58.95	Vertical	40.00
60.118500	29.51	-24.2	53.71	Vertical	40.00
60.361000	26.92	-24.3	51.22	Vertical	40.00
84.368500	28.64	-28.6	57.24	Vertical	40.00
86.308500	28.83	-28.0	56.83	Vertical	40.00

For 802.11n(HT20) Channel No.:40

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.57	-27.0	56.57	Vertical	40.00
41.155000	35.07	-23.8	58.87	Vertical	40.00
60.118500	29.48	-24.2	53.68	Vertical	40.00
60.409500	29.83	-24.3	54.13	Vertical	40.00
84.368500	28.73	-28.6	57.33	Vertical	40.00
86.066000	28.82	-28.0	56.82	Vertical	40.00

For 802.11a Channel No.:48

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.62	-27.0	56.62	Vertical	40.00
40.815500	35.02	-23.9	58.92	Vertical	40.00
60.118500	29.49	-24.2	53.69	Vertical	40.00
60.409500	29.84	-24.3	54.14	Vertical	40.00
84.320000	28.69	-28.6	57.29	Vertical	40.00
86.211500	28.62	-28.0	56.62	Vertical	40.00

For 802.11n(HT20) Channel No.:48

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.52	-27.0	56.52	Vertical	40.00
40.815500	35.01	-23.9	58.91	Vertical	40.00
60.118500	29.49	-24.2	53.69	Vertical	40.00
60.361000	26.86	-24.3	51.16	Vertical	40.00
85.532500	28.74	-28.2	56.94	Vertical	40.00
87.424000	28.55	-27.5	56.05	Vertical	40.00

For 802.11a Channel No.:52

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.57	-27.0	56.57	Vertical	40.00
41.058000	35.09	-23.8	58.89	Vertical	40.00
60.118500	29.48	-24.2	53.68	Vertical	40.00
60.409500	29.81	-24.3	54.11	Vertical	40.00
60.652000	26.55	-24.4	50.95	Vertical	40.00
81.410000	27.36	-29.5	56.86	Vertical	40.00

For 802.11n(HT20) Channel No.:52

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.63	-27.0	56.63	Vertical	40.00
41.058000	35.08	-23.8	58.88	Vertical	40.00
60.070000	25.68	-24.2	49.88	Vertical	40.00
60.409500	29.82	-24.3	54.12	Vertical	40.00
84.077500	28.78	-28.7	57.48	Vertical	40.00
87.181500	28.71	-27.6	56.31	Vertical	40.00

For 802.11a Channel No.:60

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.57	-27.0	56.57	Vertical	40.00
40.718500	34.63	-23.9	58.53	Vertical	40.00
60.070000	25.60	-24.2	49.8	Vertical	40.00
60.409500	29.78	-24.3	54.08	Vertical	40.00
84.417000	28.86	-28.6	57.46	Vertical	40.00
86.357000	28.92	-27.9	56.82	Vertical	40.00

For 802.11n(HT20) Channel No.:60

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.54	-27.0	56.54	Vertical	40.00
40.864000	35.06	-23.9	58.96	Vertical	40.00
60.409500	29.78	-24.3	54.08	Vertical	40.00
60.700500	28.51	-24.4	52.91	Vertical	40.00
84.611000	28.68	-28.6	57.28	Vertical	40.00
86.308500	28.82	-28.0	56.82	Vertical	40.00

For 802.11a Channel No.:64

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.56	-27.0	56.56	Vertical	40.00
40.864000	35.04	-23.9	58.94	Vertical	40.00
59.827500	27.32	-24.2	51.52	Vertical	40.00
60.118500	29.36	-24.2	53.56	Vertical	40.00
84.029000	28.87	-28.7	57.57	Vertical	40.00
86.939000	28.75	-27.7	56.45	Vertical	40.00

For 802.11n(HT20) Channel No.:64

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.61	-27.0	56.61	Vertical	40.00
39.991000	29.89	-24.1	53.99	Vertical	40.00
41.155000	35.06	-23.8	58.86	Vertical	40.00
60.652000	26.36	-24.4	50.76	Vertical	40.00
85.193000	29.53	-28.4	57.93	Vertical	40.00
86.066000	29.57	-28.0	57.57	Vertical	40.00

For 802.11a Channel No.:149

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.57	-27.0	56.57	Vertical	40.00
41.300500	34.79	-23.8	58.59	Vertical	40.00
60.118500	29.35	-24.2	53.55	Vertical	40.00
60.361000	26.50	-24.3	50.8	Vertical	40.00
84.174500	29.55	-28.7	58.25	Vertical	40.00
86.551000	29.57	-27.9	57.47	Vertical	40.00

For 802.11n(HT20) Channel No.:149

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.53	-27.0	56.53	Vertical	40.00
41.203500	35.10	-23.8	58.9	Vertical	40.00
60.070000	25.45	-24.2	49.65	Vertical	40.00
60.361000	26.52	-24.3	50.82	Vertical	40.00
83.738000	29.29	-28.8	58.09	Vertical	40.00
85.920500	29.38	-28.1	57.48	Vertical	40.00

For 802.11a Channel No.:157

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.56	-27.0	56.56	Vertical	40.00
40.961000	35.22	-23.8	59.02	Vertical	40.00
60.118500	29.36	-24.2	53.56	Vertical	40.00
60.409500	29.73	-24.3	54.03	Vertical	40.00
84.271500	29.41	-28.7	58.11	Vertical	40.00
87.181500	29.19	-27.6	56.79	Vertical	40.00

For 802.11n(HT20) Channel No.:157

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.115500	25.56	-27.0	52.56	Vertical	40.00
41.203500	35.29	-23.8	59.09	Vertical	40.00
60.118500	29.34	-24.2	53.54	Vertical	40.00
60.409500	29.74	-24.3	54.04	Vertical	40.00
84.805000	29.46	-28.5	57.96	Vertical	40.00
85.920500	29.39	-28.1	57.49	Vertical	40.00

For 802.11a Channel No.:165

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.212500	29.37	-27.0	56.37	Vertical	40.00
41.009500	35.33	-23.8	59.13	Vertical	40.00
60.118500	29.25	-24.2	53.45	Vertical	40.00
60.409500	29.67	-24.3	53.97	Vertical	40.00
85.775000	29.55	-28.1	57.65	Vertical	40.00
86.551000	29.59	-27.9	57.49	Vertical	40.00

For 802.11n(HT20) Channel No.:165

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.52	-27.0	56.52	Vertical	40.00
41.106500	35.37	-23.8	59.17	Vertical	40.00
60.118500	29.24	-24.2	53.44	Vertical	40.00
60.361000	26.27	-24.3	50.57	Vertical	40.00
85.387000	29.51	-28.3	57.81	Vertical	40.00
86.551000	29.54	-27.9	57.44	Vertical	40.00

For 802.11n(HT40) Channel No.:38

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.084000	28.90	-18.0	46.9	Vertical	40.00
41.095000	28.91	-18.0	46.91	Vertical	40.00
41.112000	28.90	-18.0	46.9	Vertical	40.00
41.141000	28.91	-18.0	46.91	Vertical	40.00
41.363000	28.83	-18.0	46.83	Vertical	40.00
78.143000	28.52	-23.5	52.02	Vertical	40.00

For 802.11n(HT40) Channel No.:46

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.234500	28.81	-18.0	46.81	Vertical	40.00
41.246500	28.94	-18.0	46.94	Vertical	40.00
41.257500	28.94	-18.0	46.94	Vertical	40.00
41.291500	28.77	-18.0	46.77	Vertical	40.00
41.757000	28.57	-17.9	46.47	Vertical	40.00
77.733000	28.47	-23.4	51.87	Vertical	40.00

For 802.11n(HT40) Channel No.:54

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.212500	28.84	-18.0	46.84	Vertical	40.00
41.409000	28.85	-18.0	46.85	Vertical	40.00
41.420000	28.84	-18.0	46.84	Vertical	40.00
41.822500	28.58	-17.9	46.48	Vertical	40.00
77.909000	28.39	-23.5	51.89	Vertical	40.00
78.163500	28.45	-23.5	51.95	Vertical	40.00

For 802.11n(HT40) Channel No.:62

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.063500	28.88	-18.0	46.88	Vertical	40.00
41.291500	29.00	-18.0	47	Vertical	40.00
41.297500	28.99	-18.0	46.99	Vertical	40.00
41.437000	28.84	-18.0	46.84	Vertical	40.00
78.086000	28.59	-23.5	52.09	Vertical	40.00
78.297000	28.46	-23.6	52.06	Vertical	40.00

For 802.11n(HT40) Channel No.:151

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.135000	28.98	-18.0	46.98	Vertical	40.00
41.169000	28.96	-18.0	46.96	Vertical	40.00
41.186000	28.95	-18.0	46.95	Vertical	40.00
41.189500	28.82	-18.0	46.82	Vertical	40.00
41.291500	28.77	-18.0	46.77	Vertical	40.00
41.557000	28.76	-18.0	46.76	Vertical	40.00

For 802.11n(HT40) Channel No.:159

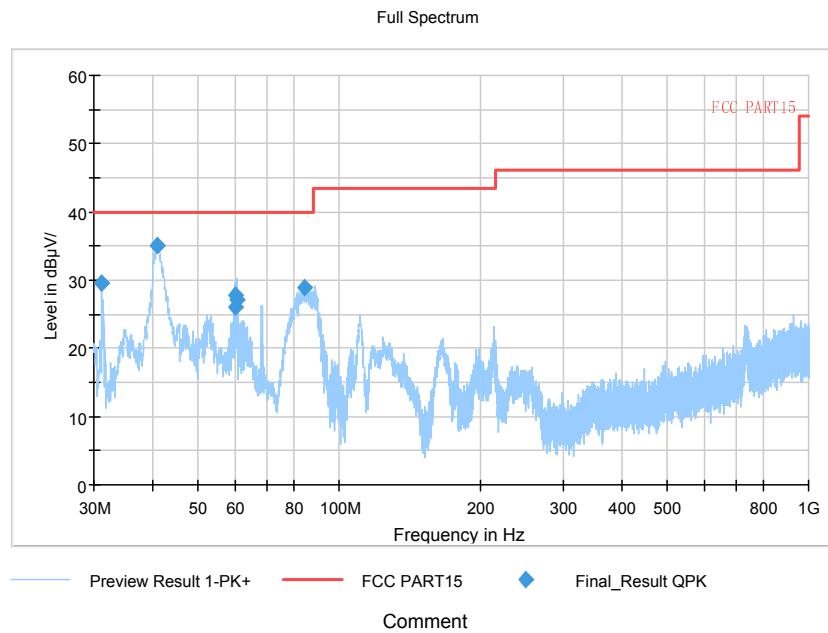
Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.086500	28.88	-18.0	46.88	Vertical	40.00
41.337500	28.85	-18.0	46.85	Vertical	40.00
41.428500	28.87	-18.0	46.87	Vertical	40.00
41.434500	28.88	-18.0	46.88	Vertical	40.00
41.451500	28.83	-18.0	46.83	Vertical	40.00
41.831000	28.66	-17.9	46.56	Vertical	40.00

802.11a MODE Channel 36 is selected as the worst point for RSE.

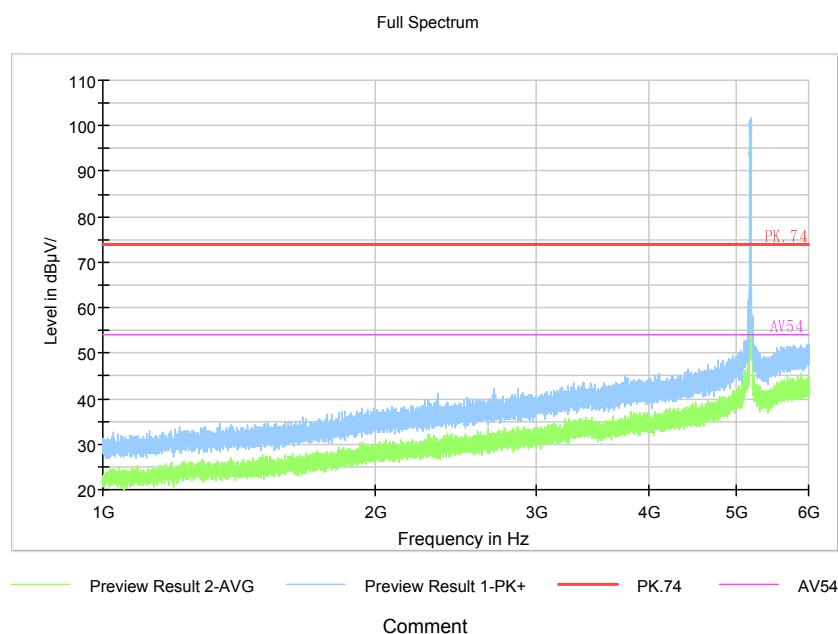
Channel No.:36

Frequency(MHz)	Result(dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
31.164000	29.56	-27.0	56.56	Vertical	40.00
41.058000	35.45	-23.8	59.25	Vertical	40.00
59.827500	27.23	-24.2	51.43	Vertical	40.00
60.167000	29.27	-24.3	53.57	Vertical	40.00
60.409500	29.64	-24.3	53.94	Vertical	40.00
84.562500	29.55	-28.6	58.15	Vertical	40.00

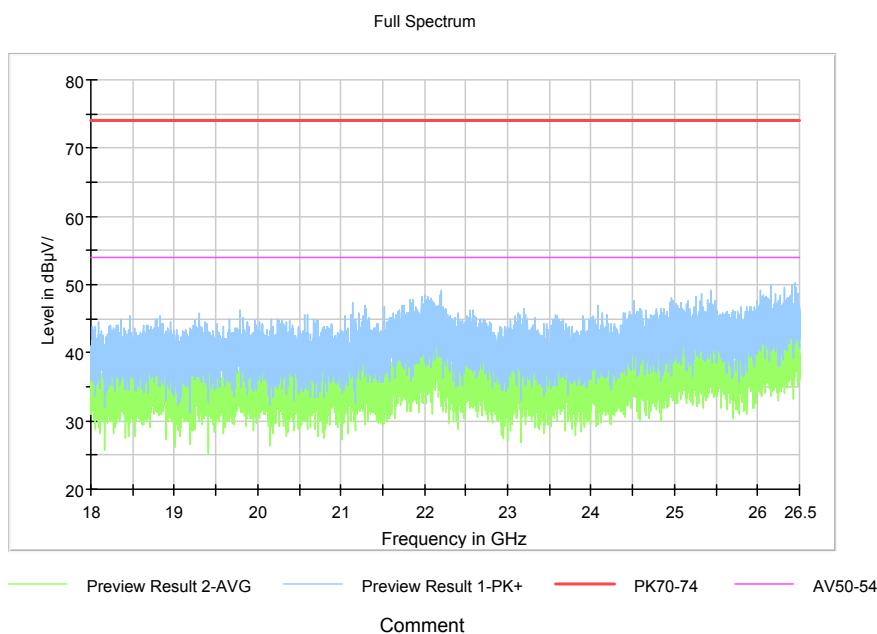
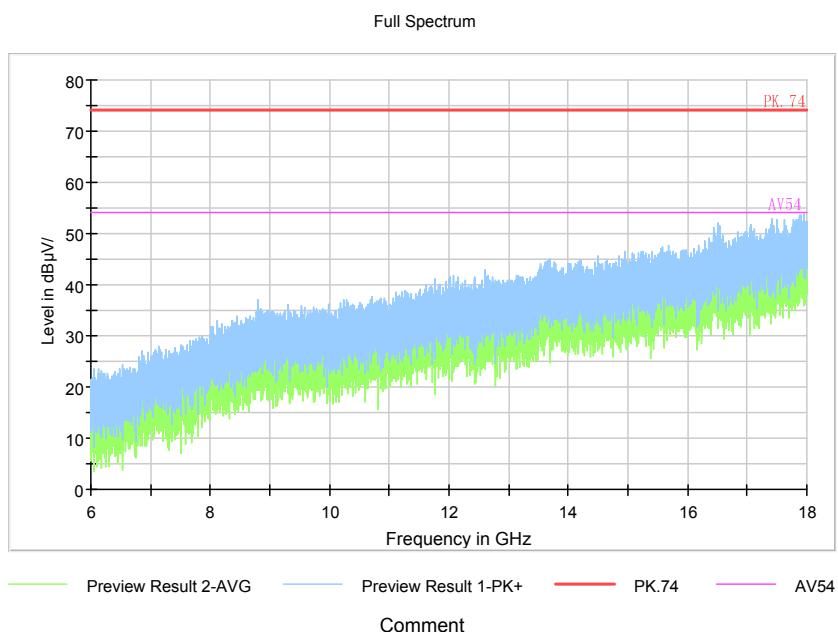
Carrier frequency (MHz): 5180
 Channel No.:36

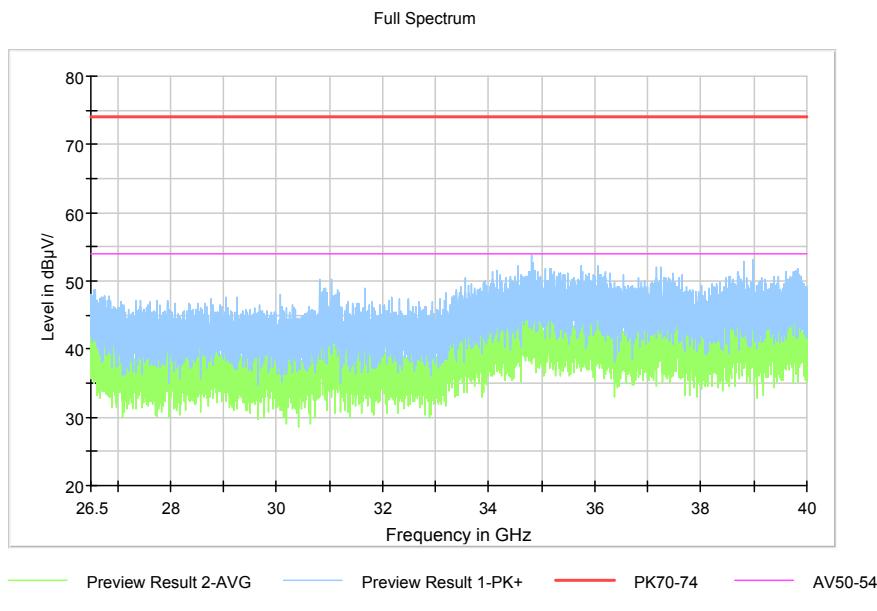


Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11a

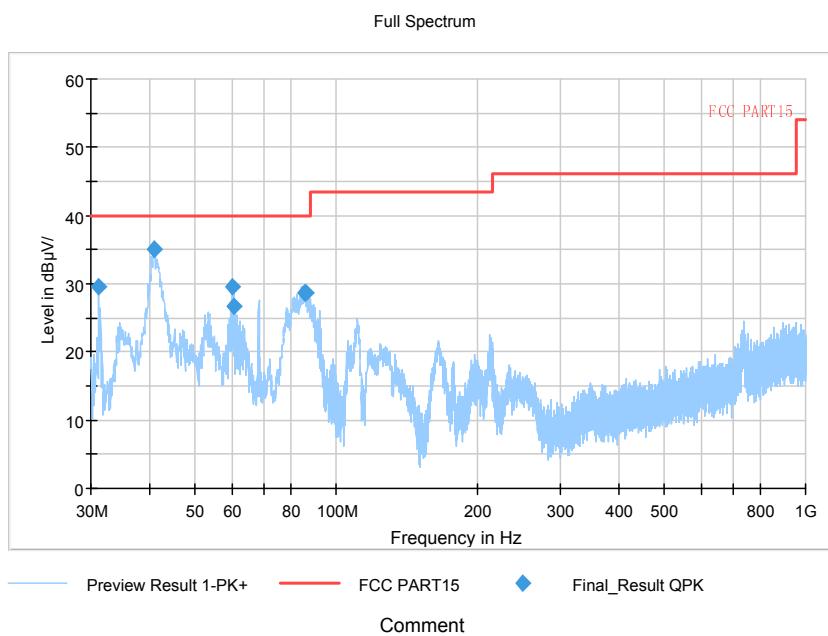


Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11a

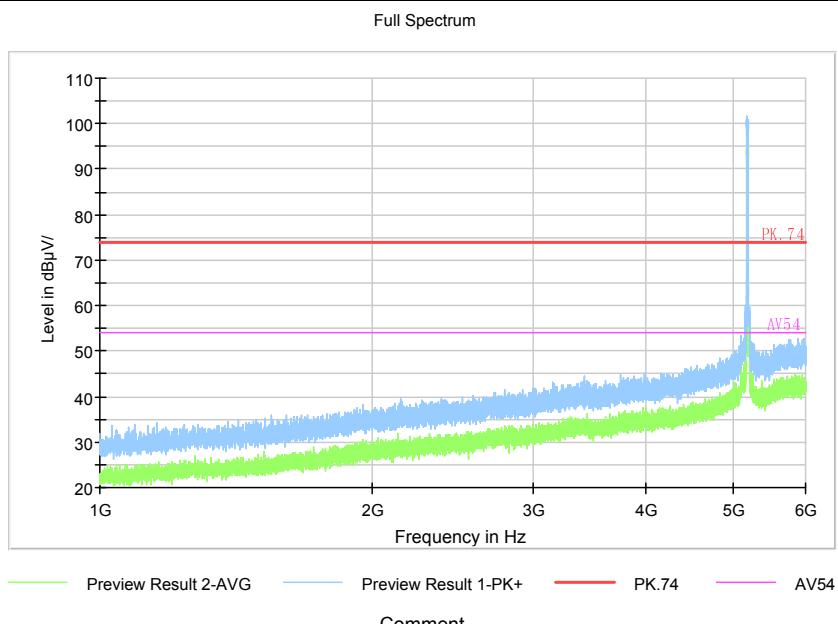




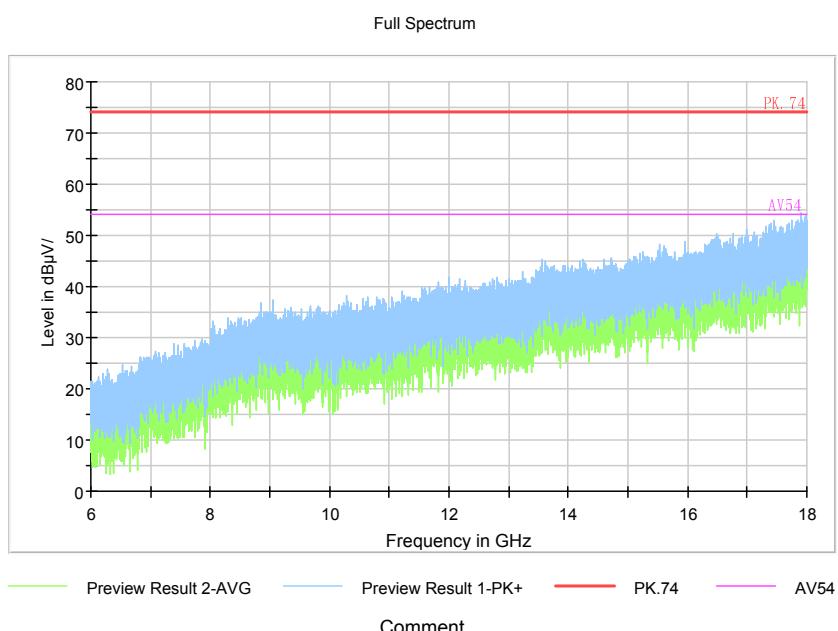
Frequency Range: 26.5GHz -40GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11a



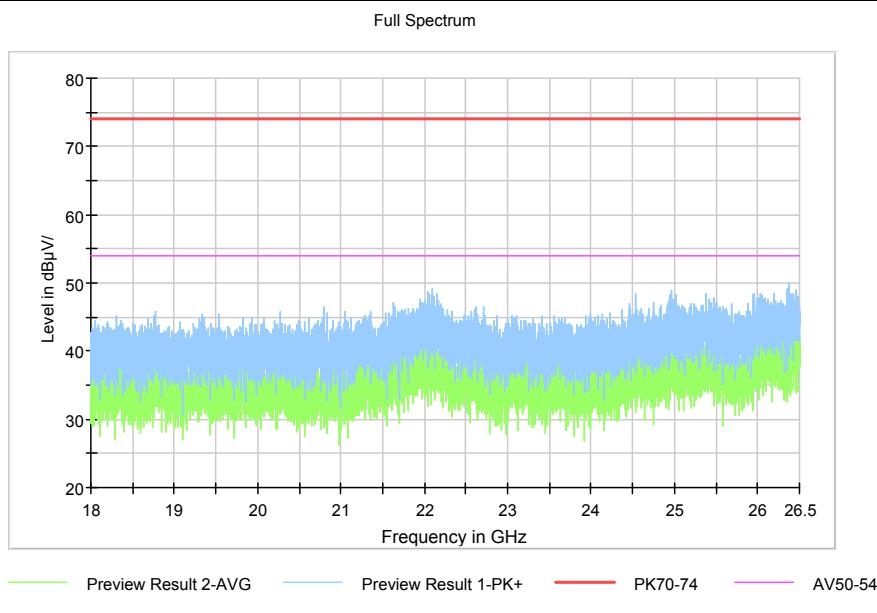
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT20)



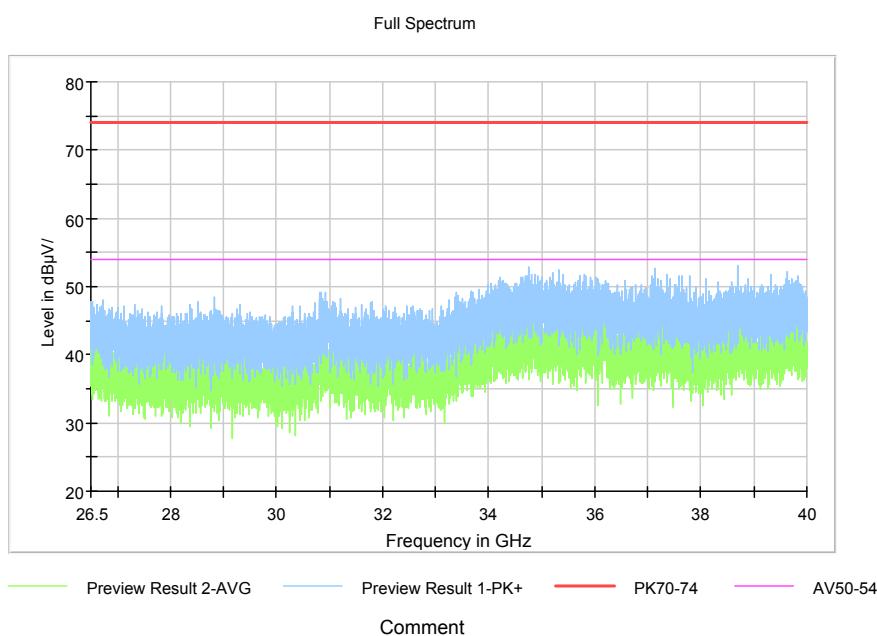
Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)



Frequency Range: 6GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

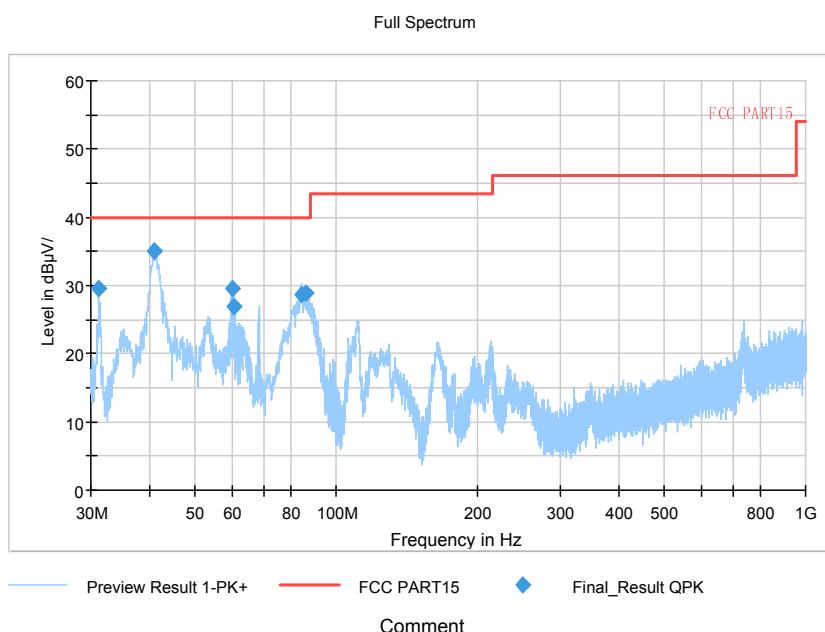


Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

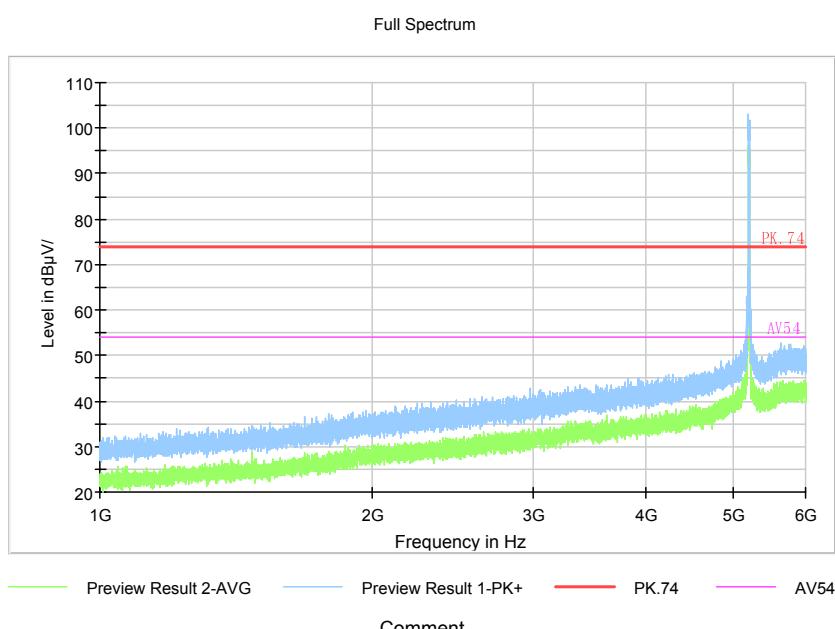


Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

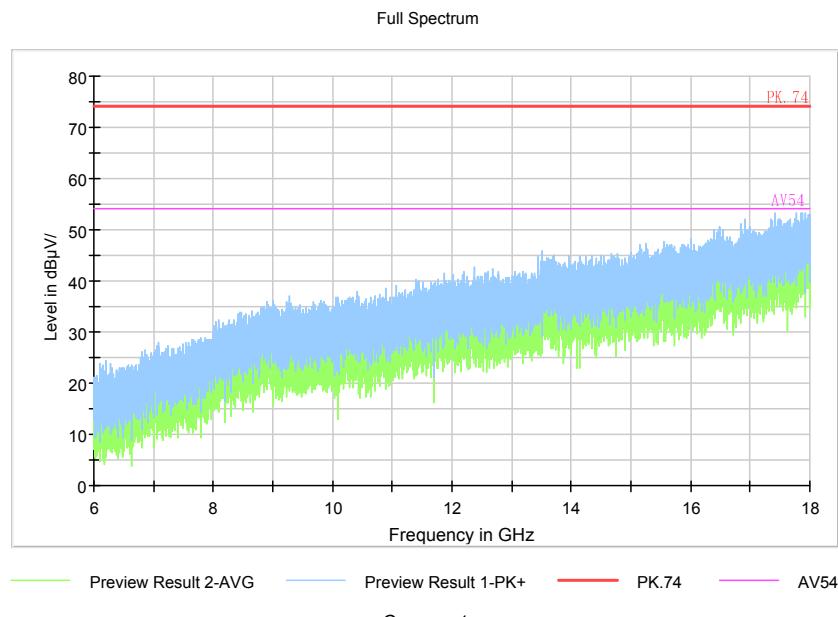
Carrier frequency (MHz): 5200
 Channel No.:40



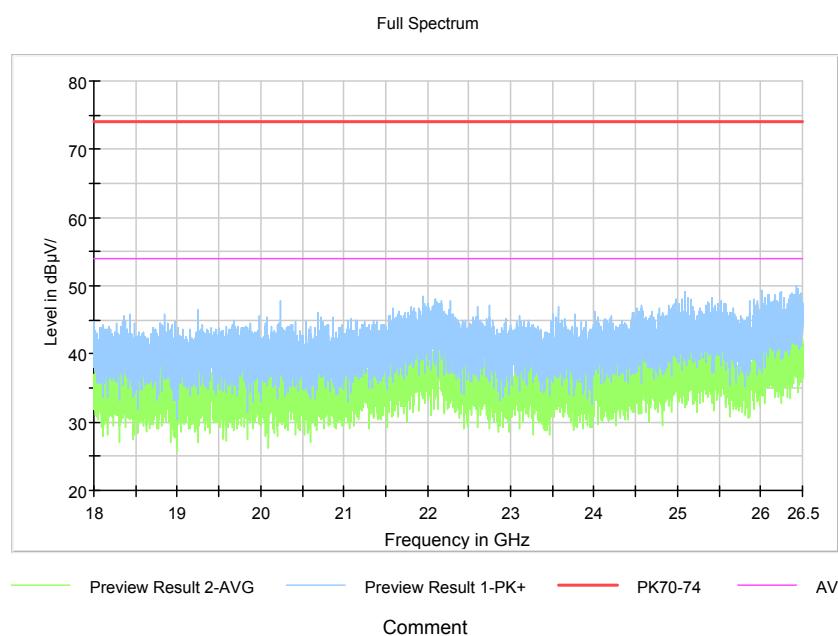
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11a



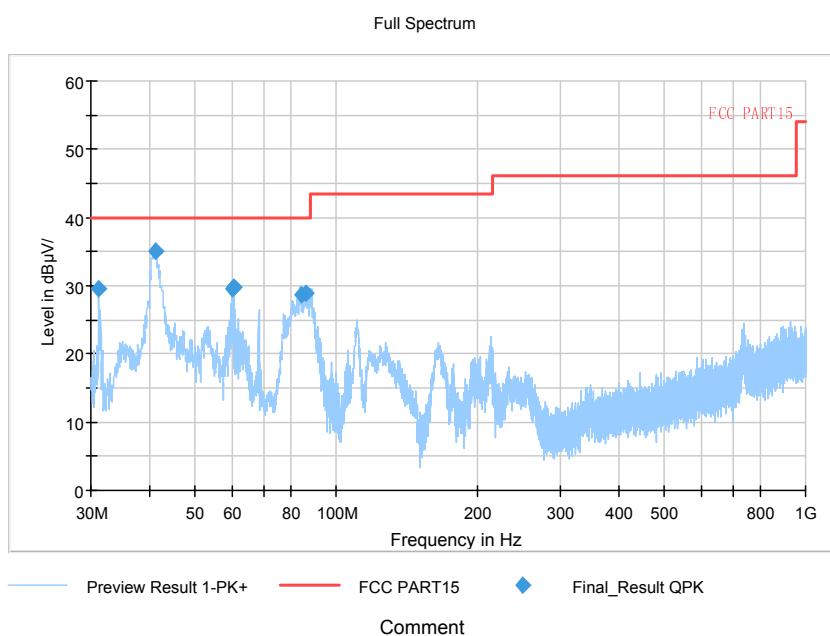
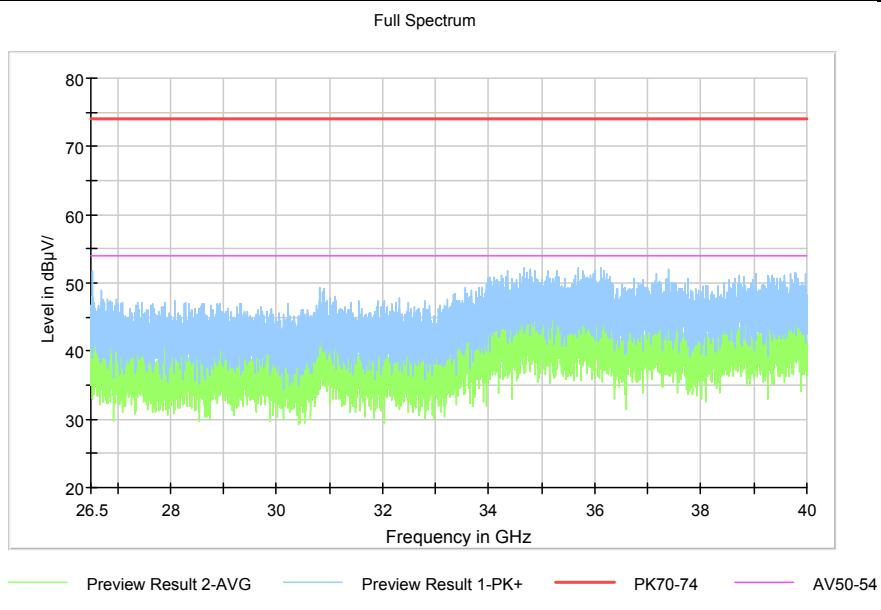
Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11a

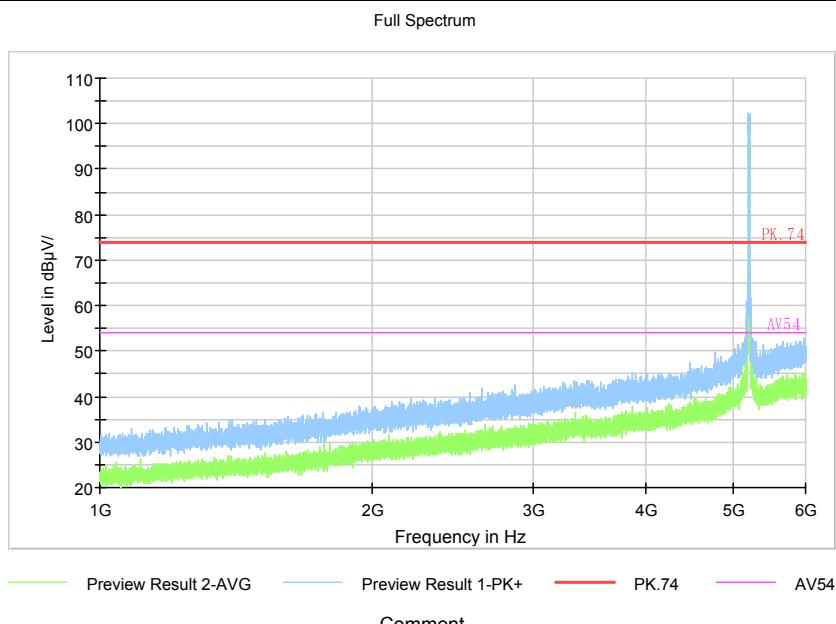


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

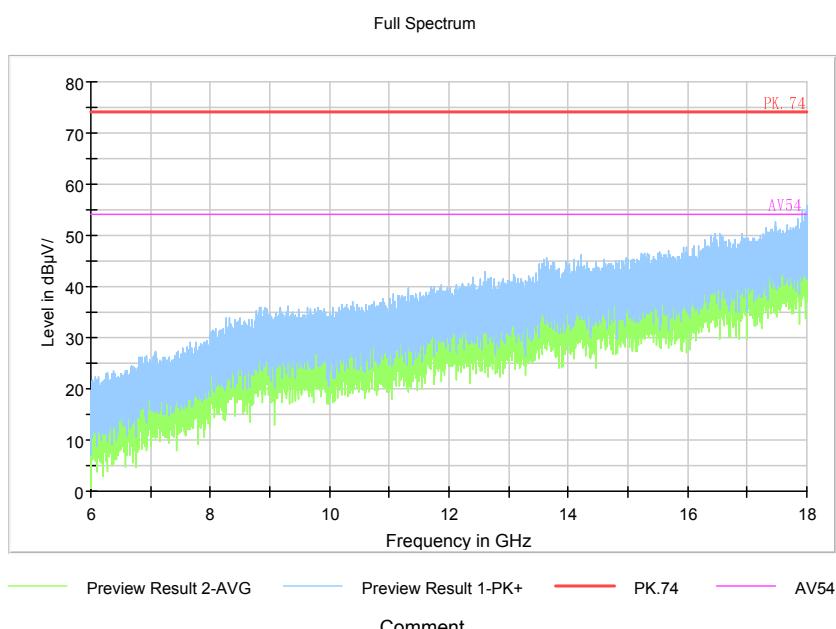


Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

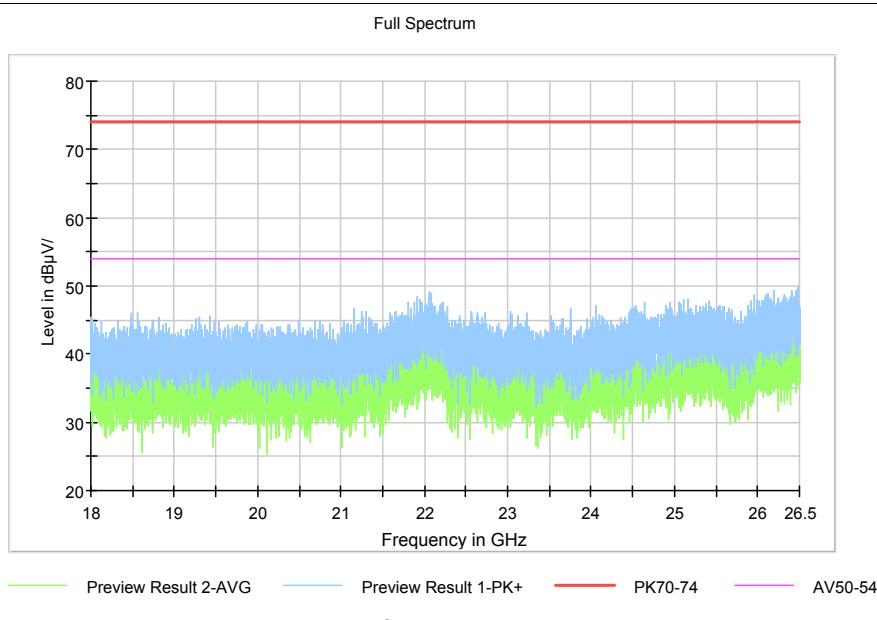




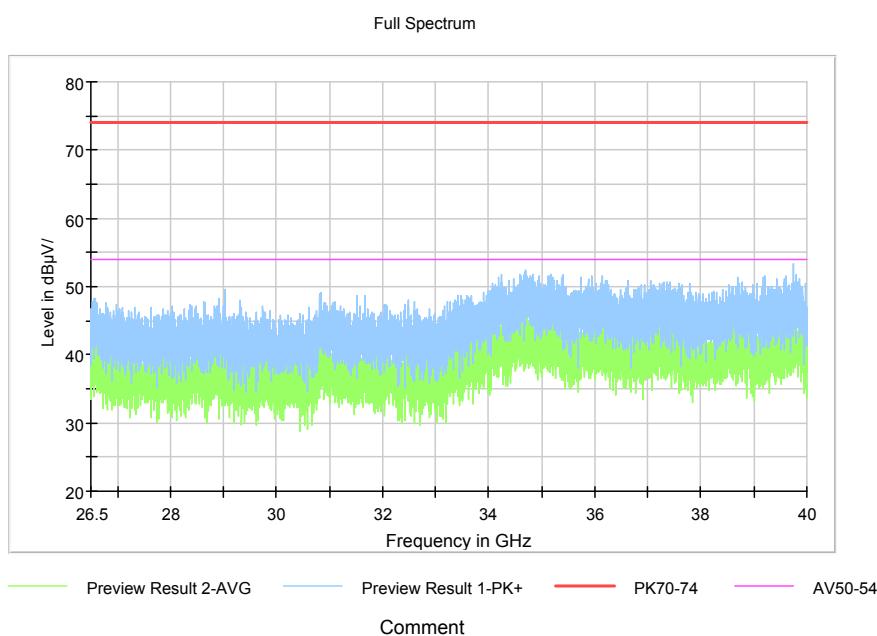
Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)



Frequency Range: 6GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

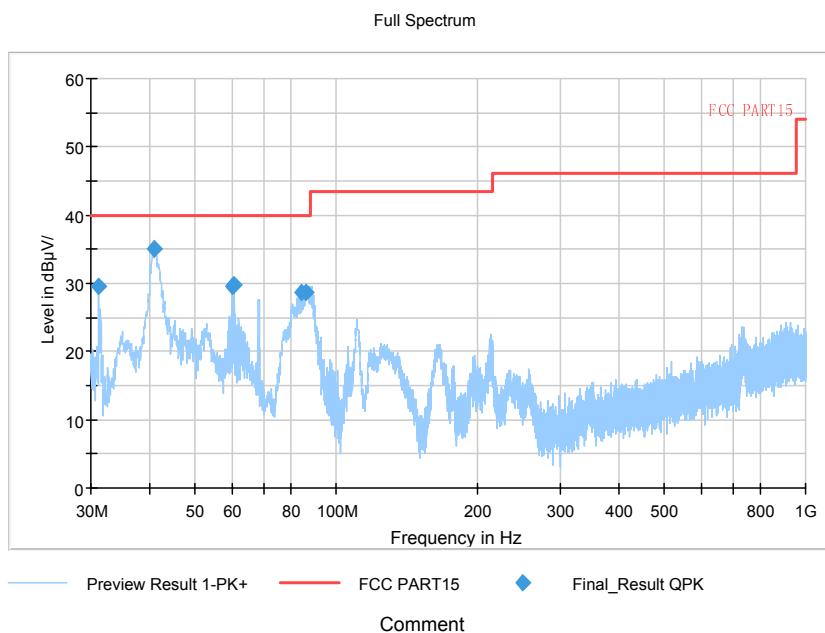


Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

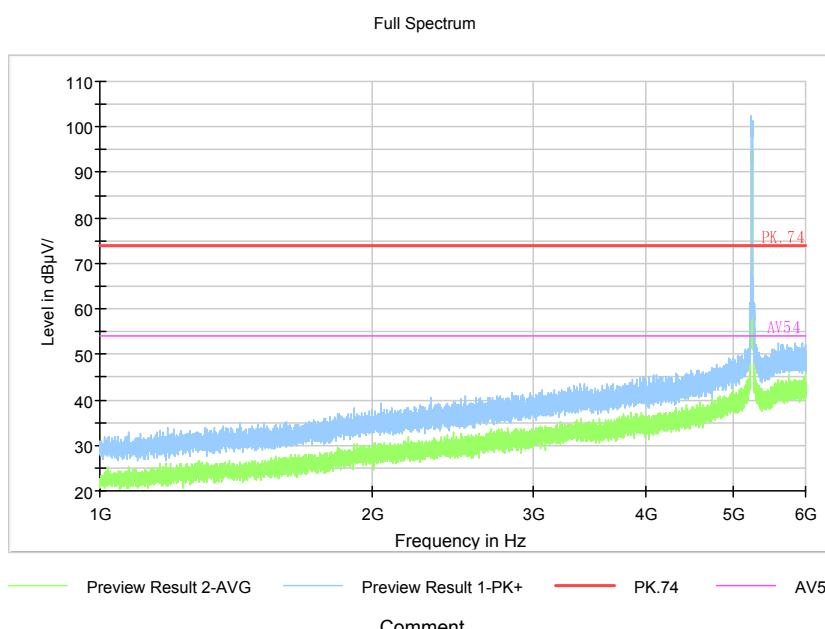


Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

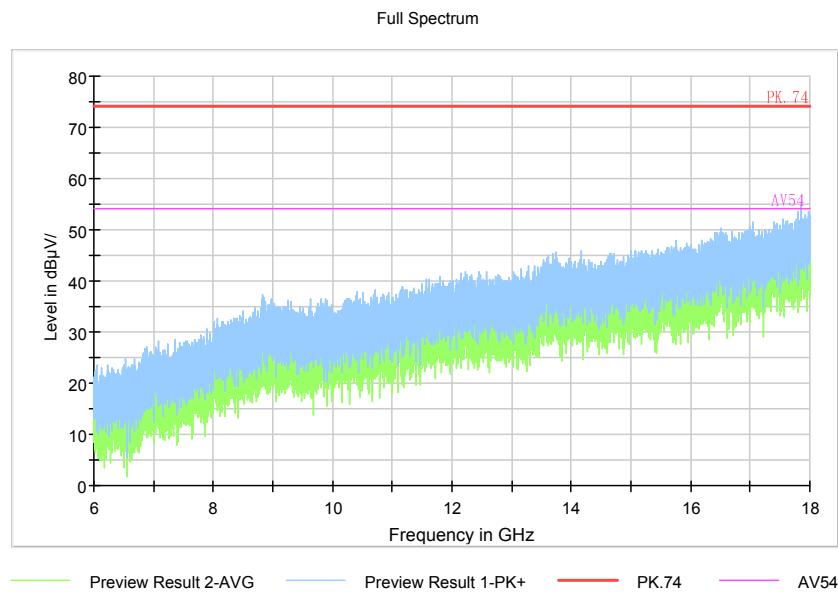
Carrier frequency (MHz): 5240
Channel No.:48



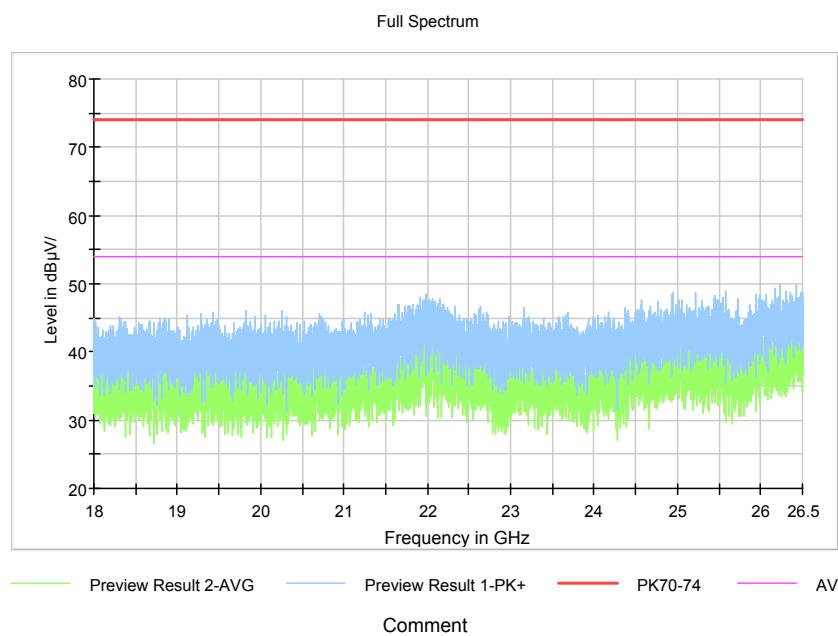
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11a



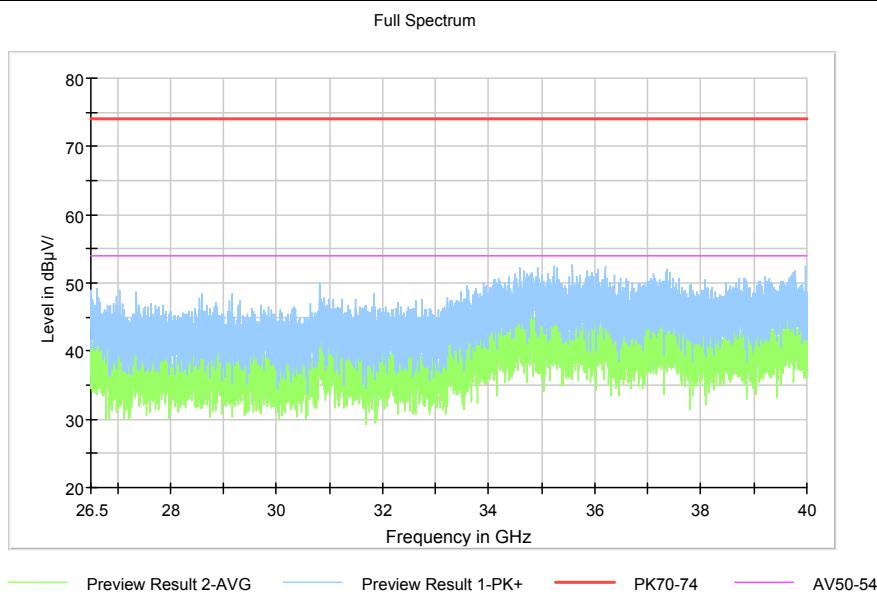
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11a



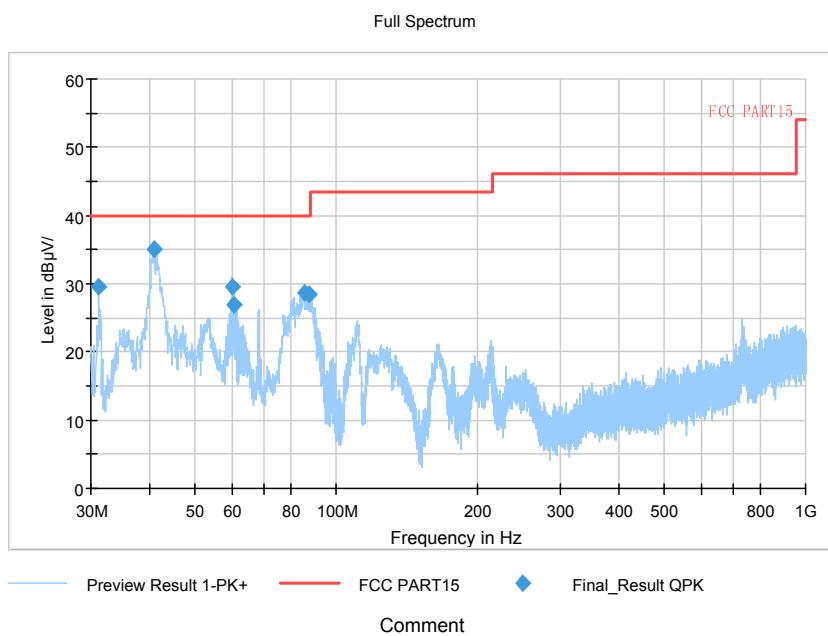
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a



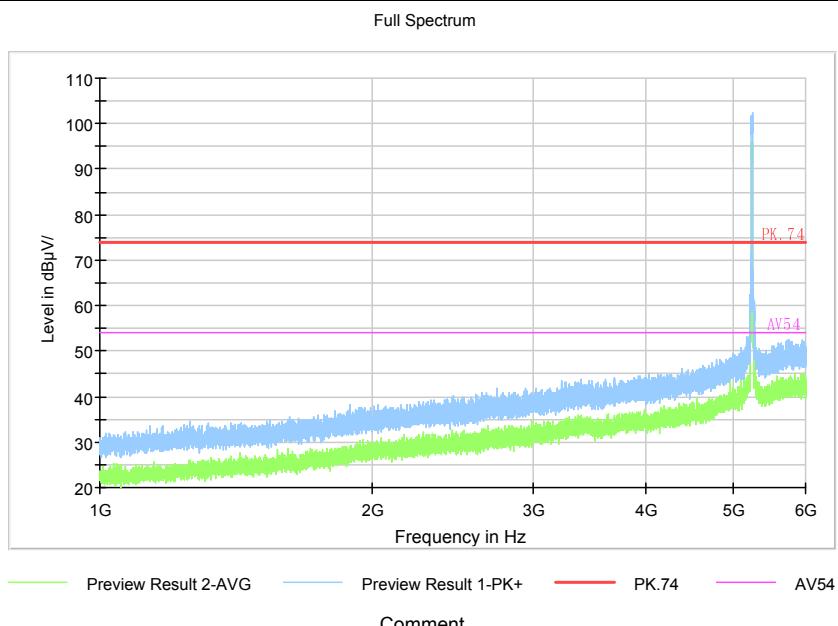
Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11a



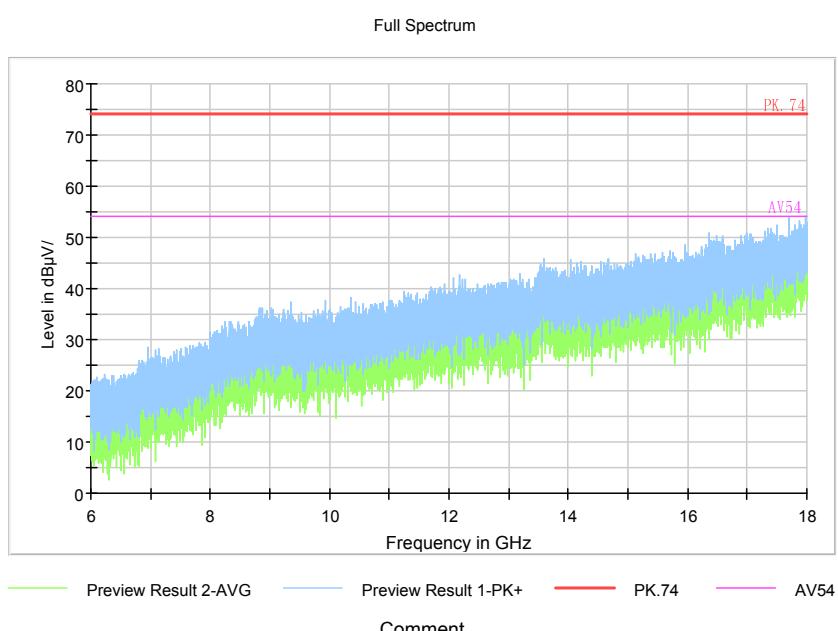
Frequency Range: 26.5GHz -40GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11a



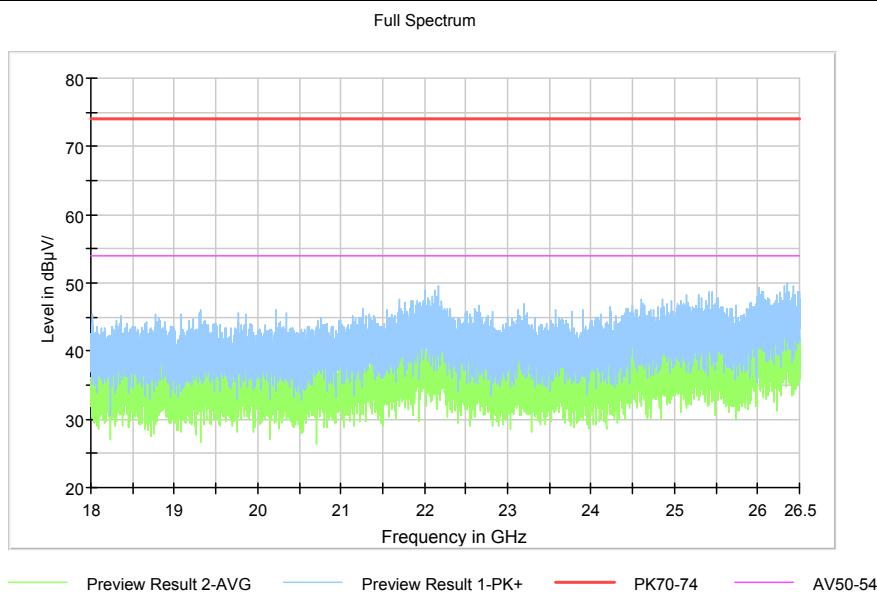
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT20)



Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)



Frequency Range: 6GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

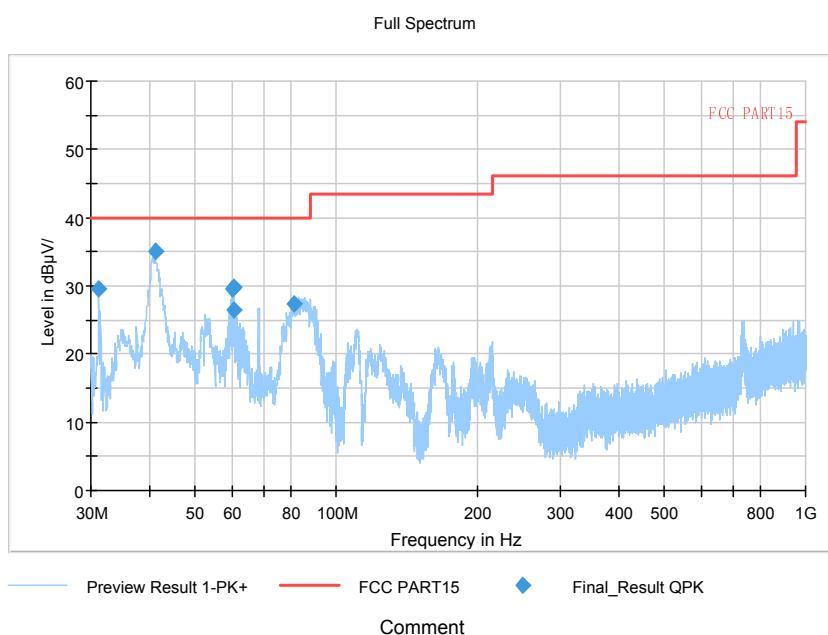


Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

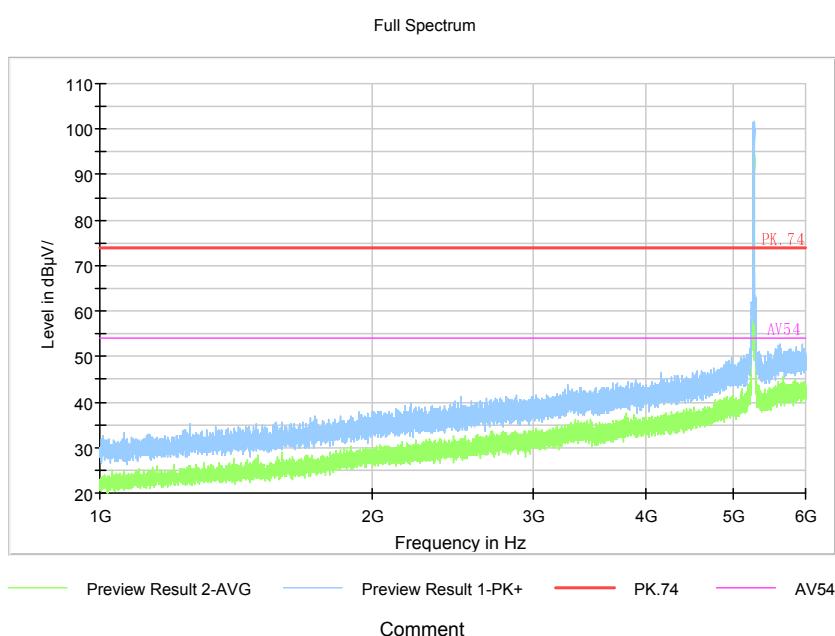


Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

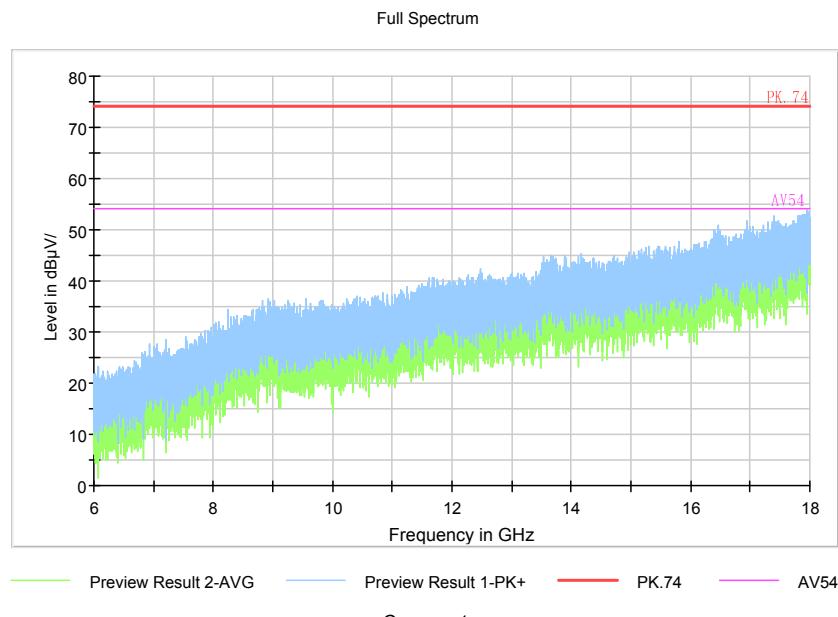
Carrier frequency (MHz): 5260
 Channel No.:52



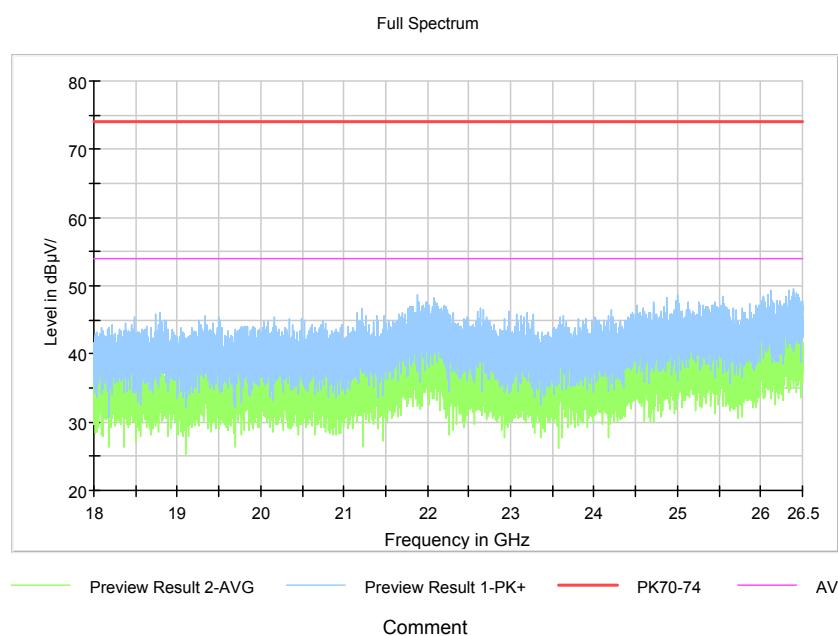
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11a



Frequency Range: 1GHz -6GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11a



Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a



Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

