

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down. MIMO Ant1+Ant2

For Test Mode: 802.11b and 802.11g, The worst case was emitted by Ant1.

For Test Mode: 802.11n(HT20) and 802.11n(HT40), The worst case was emitted by MIMO.

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: (99.44 dBuV/m) = (65.44 dB μ V) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2412MHz.

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	104.38	70.38	N/A	N/A	8.90	25.10
2	2390	50.36	16.36	-23.64	74.00	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	100.36	66.36	N/A	N/A	8.90	25.10
2	2390	46.71	12.71	-27.29	74.00	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	92.02	58.02	N/A	N/A	8.90	25.10
2	2390	42.09	8.09	-11.91	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	90.31	56.31	N/A	N/A	8.90	25.10
2	2390	41.15	7.15	-12.85	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	103.68	69.68	N/A	N/A	8.90	25.10
2	2483.5	51.08	17.08	-22.92	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	98.73	64.73	N/A	N/A	8.90	25.10
2	2483.5	44.37	10.37	-29.63	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	95.34	61.34	N/A	N/A	8.90	25.10
2	2483.5	39.75	5.75	-14.25	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	91.21	57.21	N/A	N/A	8.90	25.10
2	2483.5	39.57	5.57	-14.43	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	103.91	69.91	N/A	N/A	8.90	25.10
2	2390	51.77	17.77	-22.23	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	96.80	62.80	N/A	N/A	8.90	25.10
2	2390	44.20	10.20	-29.80	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	93.58	59.58	N/A	N/A	8.90	25.10
2	2390	40.85	6.85	-13.15	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	87.56	53.56	N/A	N/A	8.90	25.10
2	2390	40.49	6.49	-13.51	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	103.33	69.33	N/A	N/A	8.90	25.10
2	2483.5	52.02	18.02	-21.98	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	100.40	66.40	N/A	N/A	8.90	25.10
2	2483.5	45.37	11.37	-28.63	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	92.08	58.08	N/A	N/A	8.90	25.10
2	2483.5	41.21	7.21	-12.79	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	89.63	55.63	N/A	N/A	8.90	25.10
2	2483.5	40.86	6.86	-13.14	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	104.58	70.58	N/A	N/A	8.90	25.10
2	2390	51.99	17.99	-22.01	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20 MIMO)
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	97.03	63.03	N/A	N/A	8.90	25.10
2	2390	44.03	10.03	-29.97	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20 MIMO)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2412	92.65	58.65	N/A	N/A	8.90	25.10
2	2390	39.61	5.61	-14.39	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20 MIMO)
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	88.14	54.14	N/A	N/A	8.90	25.10
2	2390	39.11	5.11	-14.89	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20 MIMO)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	104.59	70.59	N/A	N/A	8.90	25.10
2	2483.5	50.88	16.88	-23.12	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20 MIMO)
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	99.50	65.50	N/A	N/A	8.90	25.10
2	2483.5	45.32	11.32	-28.68	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20 MIMO)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	94.63	60.63	N/A	N/A	8.90	25.10
2	2483.5	41.42	7.42	-12.58	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20 MIMO)
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2462	88.93	54.93	N/A	N/A	8.90	25.10
2	2483.5	41.06	7.06	-12.94	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:1
Test Mode: 802.11n(HT40 MIMO)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2422	102.56	68.56	N/A	N/A	8.90	25.10
2	2390	51.30	17.30	-22.70	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:1
Test Mode: 802.11n(HT40 MIMO)
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2422	97.85	63.85	N/A	N/A	8.90	25.10
2	2390	47.04	13.04	-26.96	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:1
Test Mode: 802.11n(HT40 MIMO)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2422	93.84	59.84	N/A	N/A	8.90	25.10
2	2390	38.68	4.68	-15.32	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:1
Test Mode: 802.11n(HT40 MIMO)
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2422	91.30	57.30	N/A	N/A	8.90	25.10
2	2390	37.90	3.90	-16.10	54.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:11
Test Mode: 802.11n(HT40 MIMO)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2452	102.67	68.67	N/A	N/A	8.90	25.10
2	2483.5	52.24	18.24	-21.76	74.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:11
Test Mode: 802.11n(HT40 MIMO)
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2452	98.70	64.70	N/A	N/A	8.90	25.10
2	2483.5	43.92	9.92	-30.08	74.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:11
Test Mode: 802.11n(HT40 MIMO)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2452	92.40	58.40	N/A	N/A	8.90	25.10
2	2483.5	39.75	5.75	-14.25	54.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:11
Test Mode: 802.11n(HT40 MIMO)
Polarity:Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2452	88.37	54.37	N/A	N/A	8.90	25.10
2	2483.5	39.43	5.43	-14.57	54.00	8.90	25.10

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: (15.90 dBuV/m) = (33.6 dBuV) + (-17.7 dB/m), the corresponding frequency is 51.980417MHz.

The worst case attitude: The EUT lay down.

For Test Mode: 802.11b and 802.11g, The worst case was emitted by Ant1.

For Test Mode: 802.11n(HT20) and 802.11n(HT40), The worst case was emitted by MIMO.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.525417	25.2	-21.6	46.8	Vertical	40.00
42.084583	28.37	-18.1	46.47	Vertical	40.00
45.479583	30.81	-17.5	48.31	Vertical	40.00
55.543333	20.7	-18	38.7	Vertical	40.00
58.655417	14.82	-18.6	33.42	Horizontal	40.00
62.37375	17.3	-19.5	36.8	Vertical	40.00

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.36375	25.1	-21.6	46.7	Vertical	40.00
42.48875	28.92	-18.1	47.02	Vertical	40.00
45.196667	31.29	-17.5	48.79	Vertical	40.00
55.907083	20.59	-18.1	38.69	Horizontal	40.00
69.285	19.15	-21.7	40.85	Vertical	40.00
84.481667	16.74	-23.3	40.04	Vertical	40.00

For 802.11n(HT20 MIMO) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.565833	24.84	-21.6	46.44	Vertical	40.00
42.48875	30.84	-18.1	48.94	Vertical	40.00
45.439167	33.58	-17.5	51.08	Vertical	40.00
55.866667	23.18	-18.1	41.28	Horizontal	40.00
69.082917	19.74	-21.6	41.34	Horizontal	40.00
84.481667	18.04	-23.3	41.34	Vertical	40.00

For 802.11n(HT40 MIMO) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.525417	24.6	-21.6	46.2	Vertical	40.00
41.559167	30.02	-18.2	48.22	Vertical	40.00
44.994583	33.56	-17.6	51.16	Vertical	40.00
69.567917	20.15	-21.8	41.95	Vertical	40.00
84.481667	18.04	-23.3	41.34	Vertical	40.00
86.0175	15.84	-22.8	38.64	Vertical	40.00

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.161667	25.94	-21.7	47.64	Vertical	40.00
42.3675	27.85	-18.1	45.95	Vertical	40.00
43.418333	28.84	-17.9	46.74	Vertical	40.00
45.237083	28.48	-17.5	45.98	Vertical	40.00
50.24875	19.27	-17.5	36.77	Vertical	40.00
69.5275	15.67	-21.7	37.37	Vertical	40.00

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.525417	24.91	-21.6	46.51	Vertical	40.00
41.922917	30.46	-18.2	48.66	Vertical	40.00
45.317917	33.76	-17.5	51.26	Vertical	40.00
56.755833	20.36	-18.2	38.56	Horizontal	40.00
70.74	19.81	-22.2	42.01	Vertical	40.00
84.32	18.09	-23.4	41.49	Vertical	40.00

For 802.11n(HT20 MIMO) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.161667	24.89	-21.7	46.59	Vertical	40.00
42.529167	30.77	-18	48.77	Vertical	40.00
45.2775	33.76	-17.5	51.26	Vertical	40.00
70.4975	20.02	-22.1	42.12	Vertical	40.00
84.522083	18.02	-23.3	41.32	Vertical	40.00
86.906667	14.79	-22.5	37.29	Vertical	40.00

For 802.11n(HT40 MIMO) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.323333	24.66	-21.6	46.26	Vertical	40.00
41.76125	30.32	-18.2	48.52	Vertical	40.00
45.317917	33.79	-17.5	51.29	Vertical	40.00
69.64875	20.13	-21.8	41.93	Vertical	40.00
78.5	18.04	-24.4	42.44	Vertical	40.00
84.117917	18.02	-23.4	41.42	Vertical	40.00

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.282917	24.71	-21.6	46.31	Vertical	40.00
41.842083	30.48	-18.2	48.68	Vertical	40.00
45.196667	33.78	-17.5	51.28	Vertical	40.00
69.77	20.13	-21.8	41.93	Vertical	40.00
84.5625	17.99	-23.3	41.29	Vertical	40.00
86.62375	15.1	-22.6	37.7	Vertical	40.00

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.161667	25.11	-21.7	46.81	Vertical	40.00
42.327083	30.63	-18.1	48.73	Vertical	40.00
45.035	33.57	-17.6	51.17	Vertical	40.00
70.295417	20.2	-22	42.2	Vertical	40.00
78.2575	18.15	-24.4	42.55	Vertical	40.00
84.5625	18.02	-23.3	41.32	Vertical	40.00

For 802.11n(HT20 MIMO) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
31.293333	23.75	-21.4	45.15	Vertical	40.00
42.48875	30.8	-18.1	48.9	Vertical	40.00
44.91375	33.39	-17.6	50.99	Vertical	40.00
70.37625	20.24	-22	42.24	Vertical	40.00
84.037083	18.18	-23.4	41.58	Vertical	40.00
86.057917	15.91	-22.8	38.71	Vertical	40.00

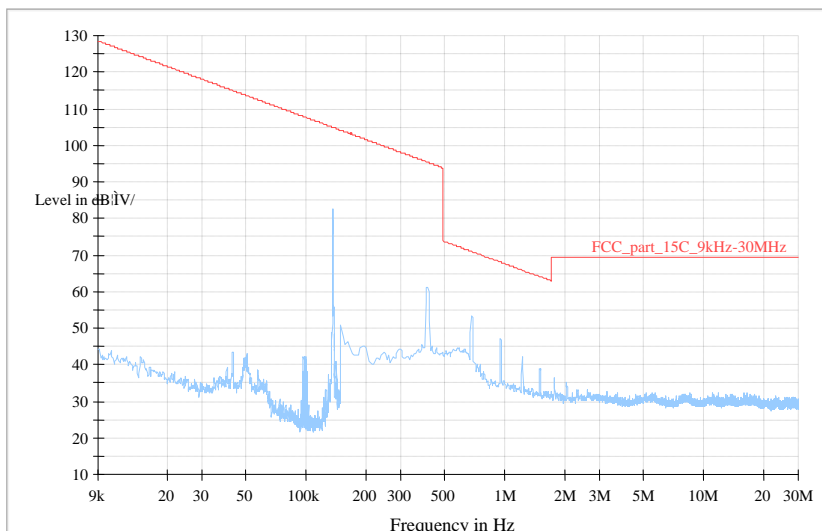
For 802.11n(HT40 MIMO) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.161667	24.99	-21.7	46.69	Vertical	40.00
42.48875	30.8	-18.1	48.9	Vertical	40.00
44.954167	33.54	-17.6	51.14	Vertical	40.00
70.4975	20.16	-22.1	42.26	Vertical	40.00
84.19875	18.07	-23.4	41.47	Vertical	40.00
86.583333	15.43	-22.6	38.03	Vertical	40.00

Carrier frequency (MHz): 2412

Channel No.:1

Full Spectrum

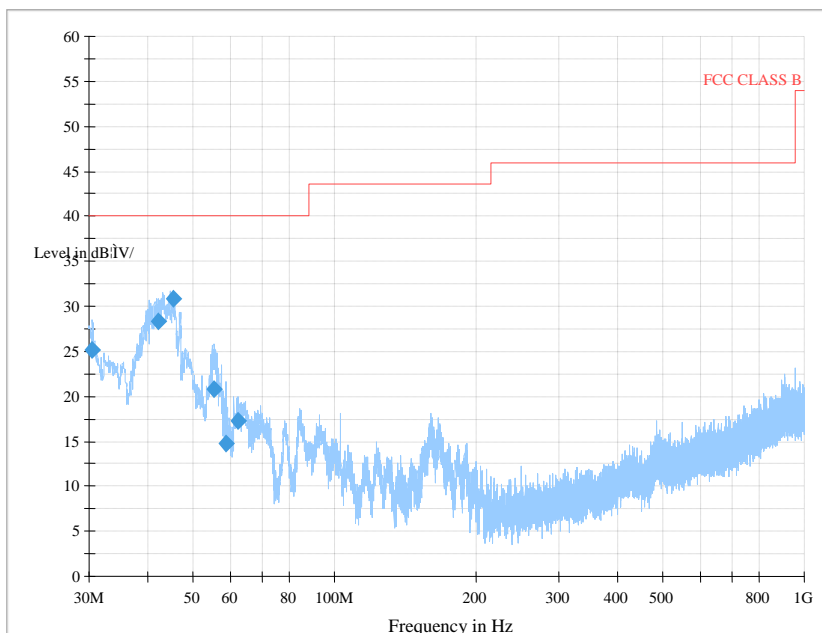


— Preview Result 1-PK+ * Critical_Freqs PK+
 — FCC_part_15C_9kHz-30MHz ◆ Final_Result PK+

Frequency Range: 9kHz -30MHz

Detector: PK mode

Test Mode: 802.11b

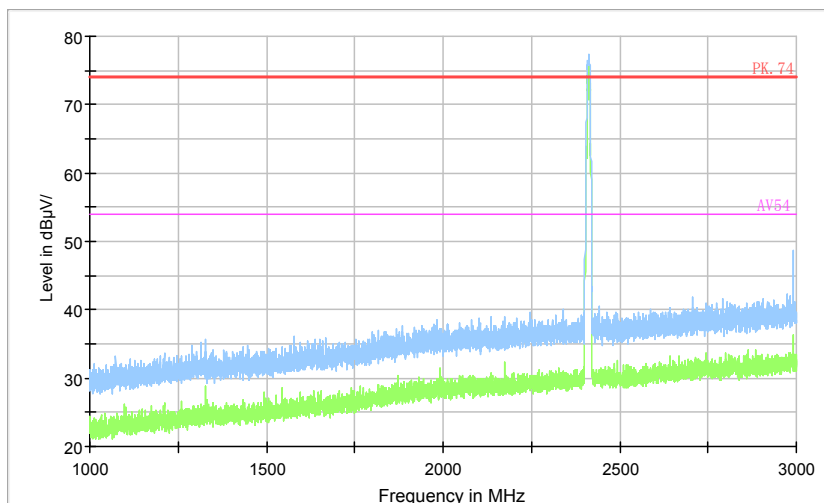


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11b

Full Spectrum

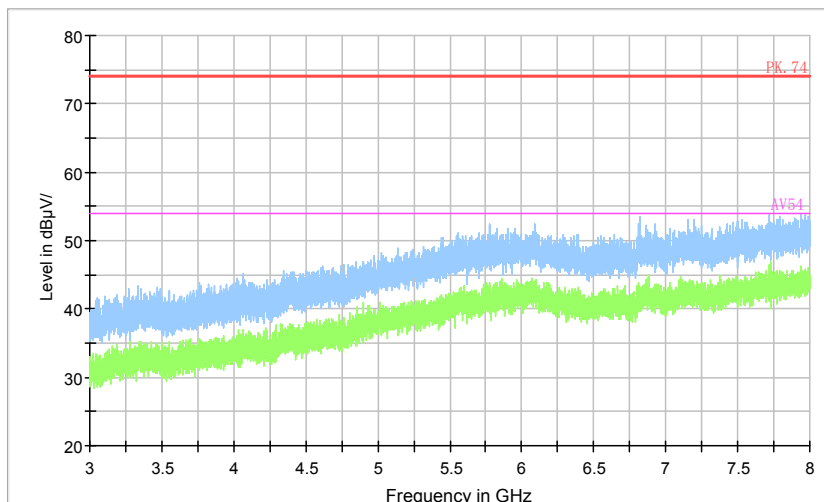


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

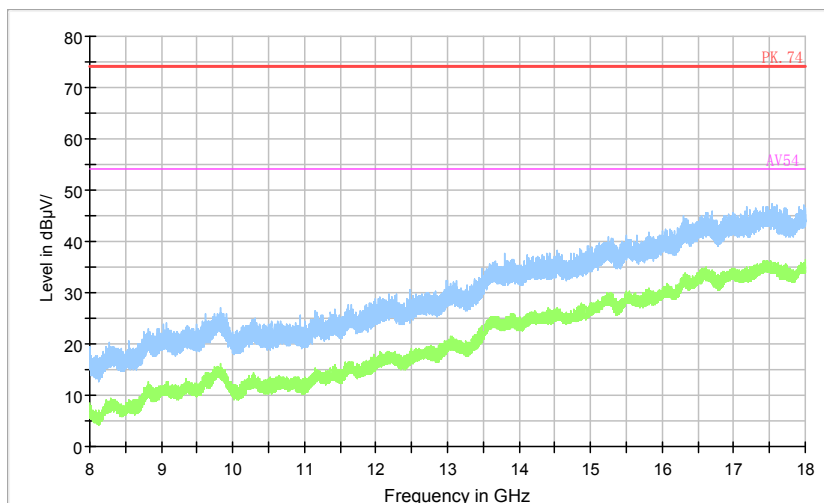


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

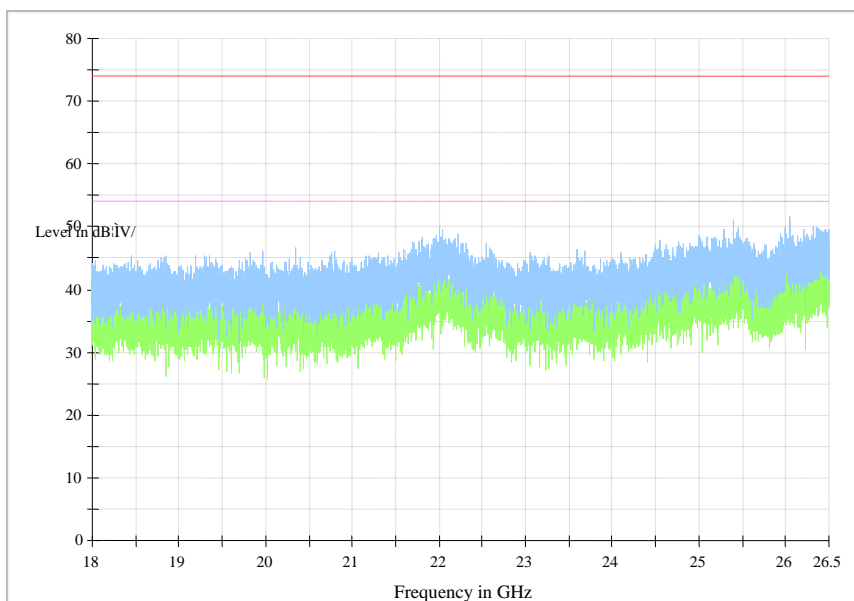


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

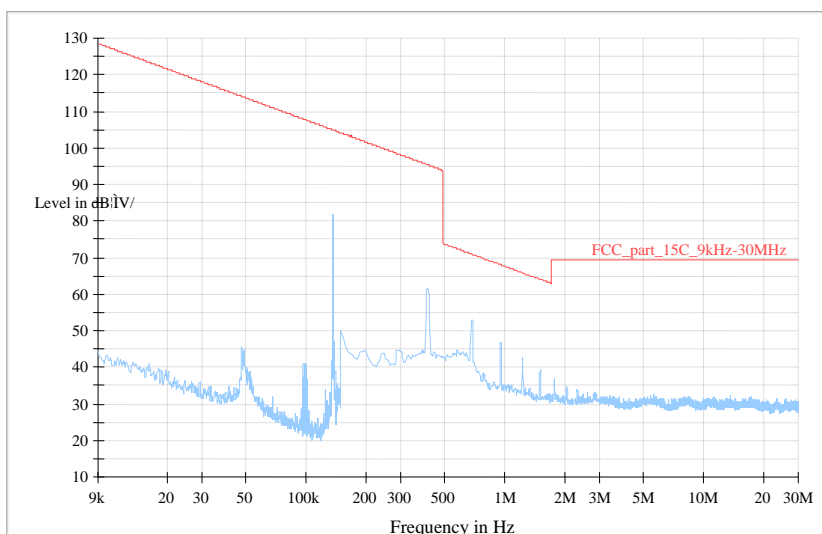
Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



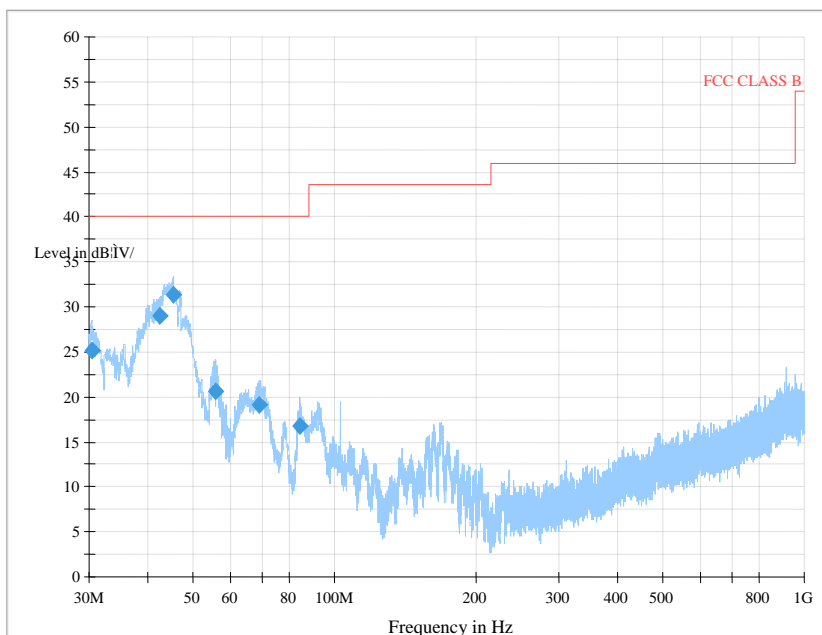
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



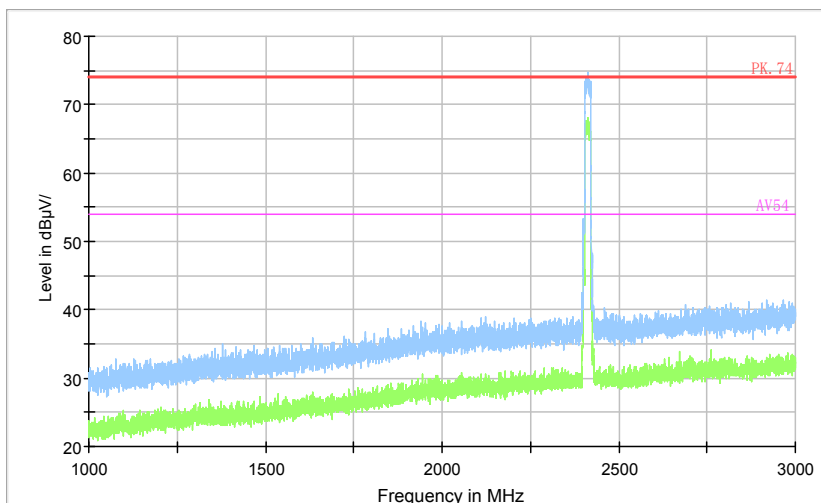
— Preview Result 1-PK+ * Critical_Freqs PK+
— FCC_part_15C_9kHz-30MHz ◆ Final_Result PK+

Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11g



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum

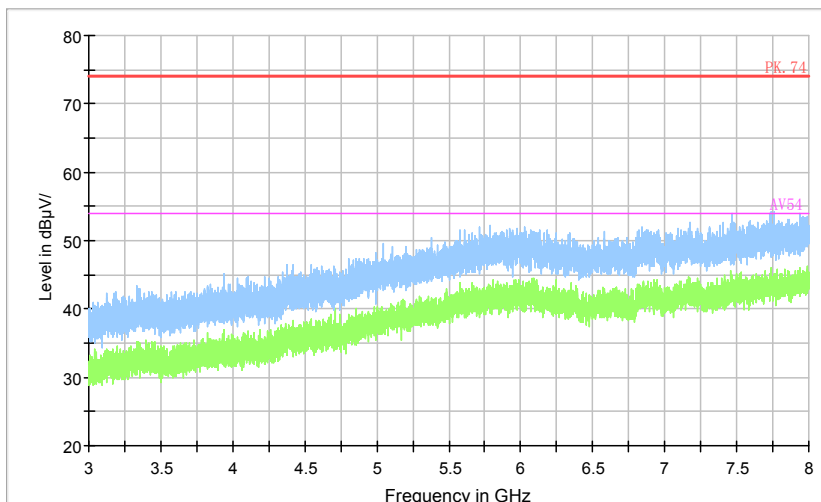


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

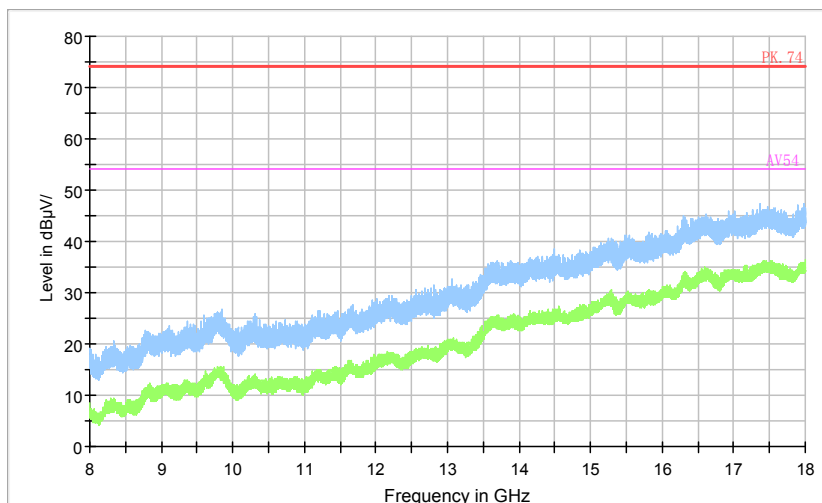


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

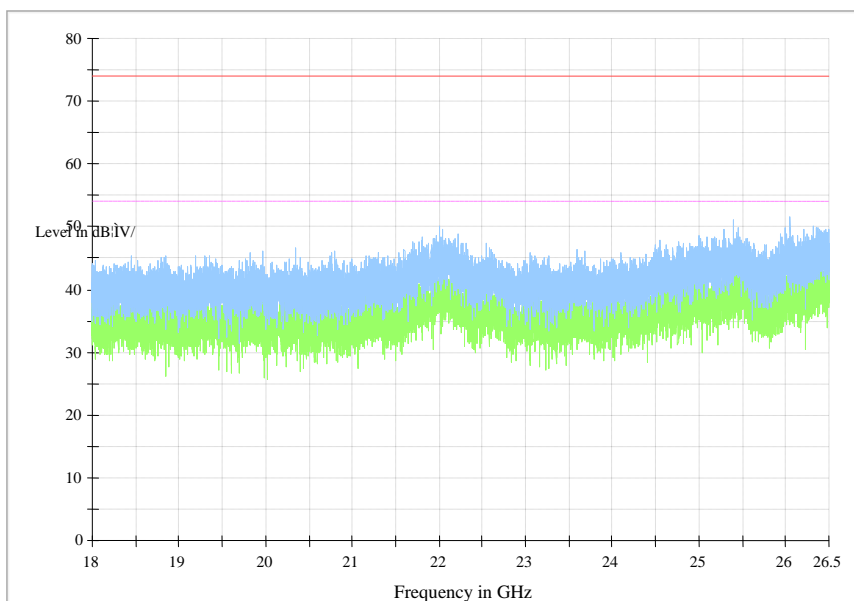


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

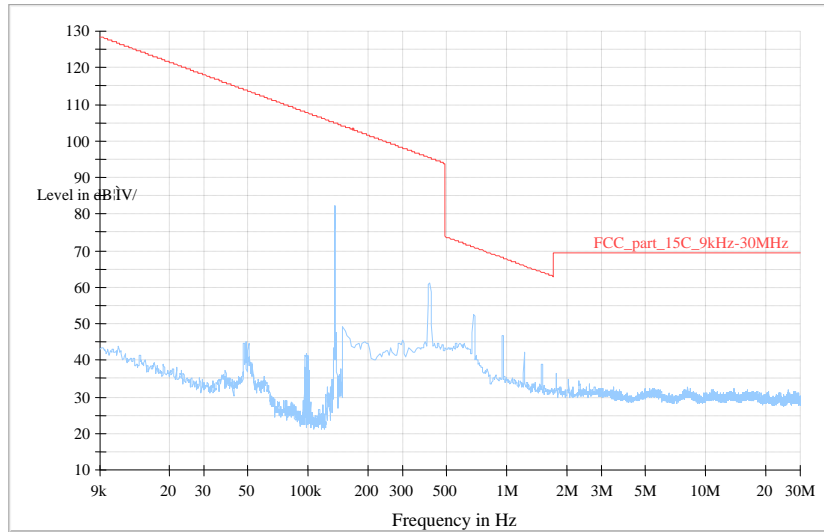
Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

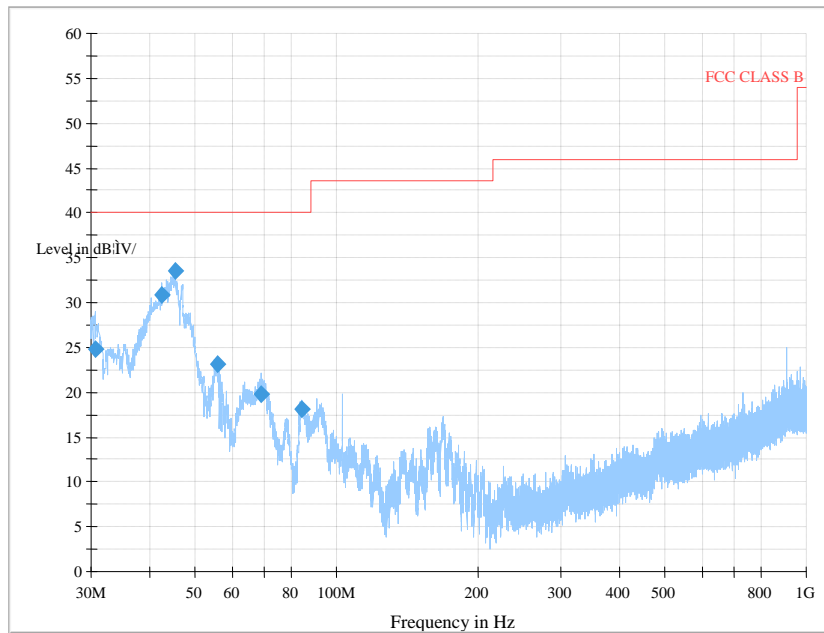


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

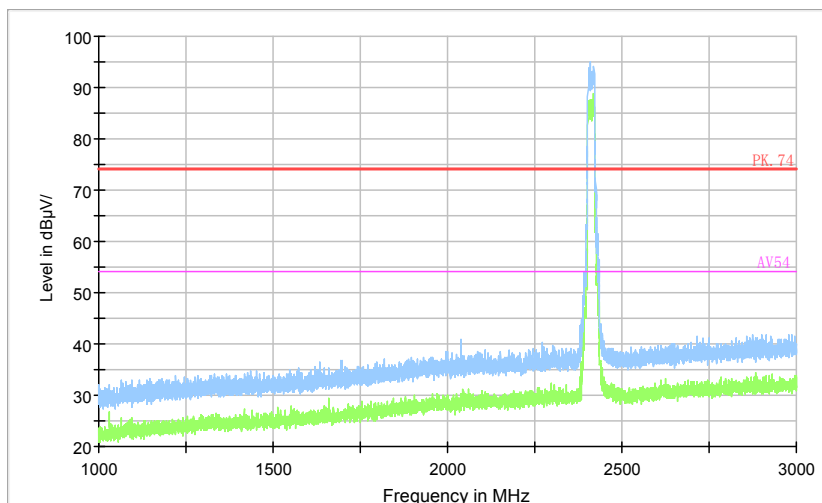


Frequency Range: 9kHz -30MHz
 Detector: PK mode
 Test Mode: 802.11n(HT20 MIMO)



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

Full Spectrum

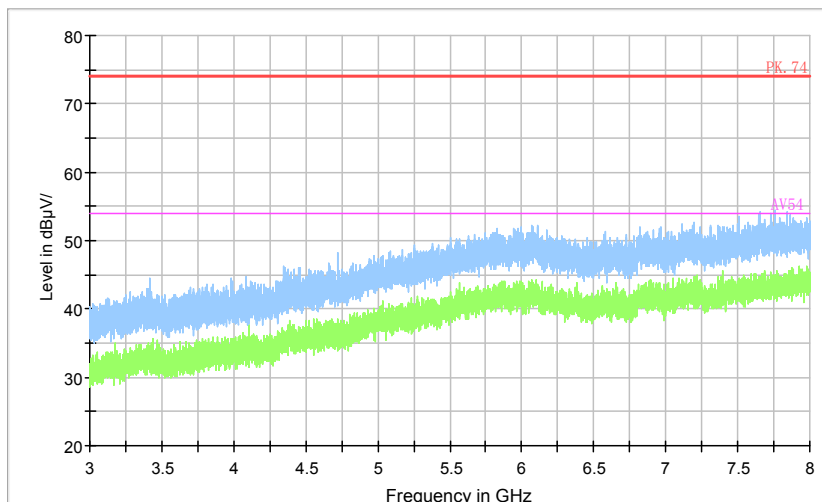


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

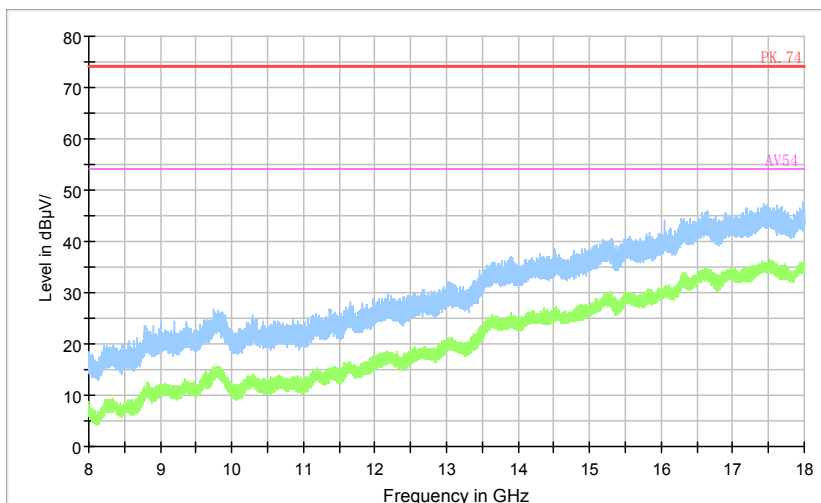


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

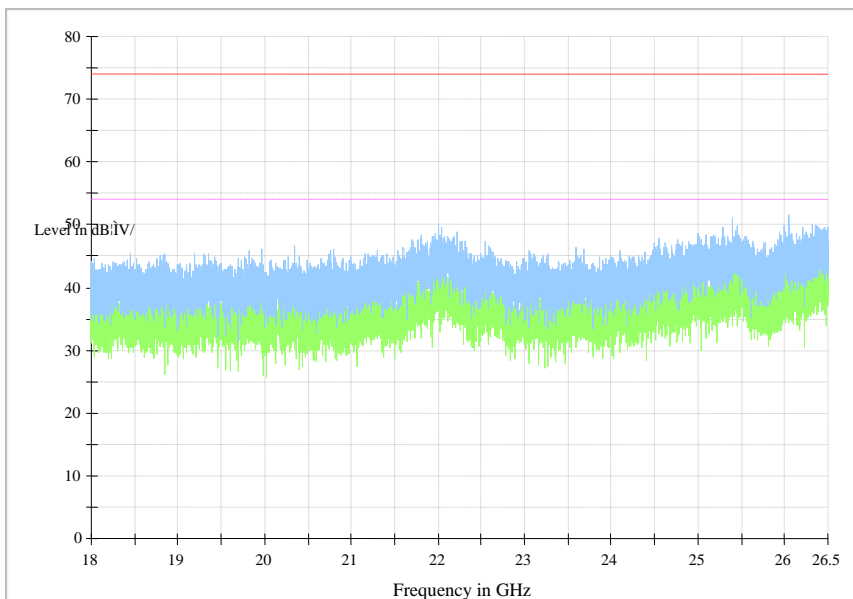


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

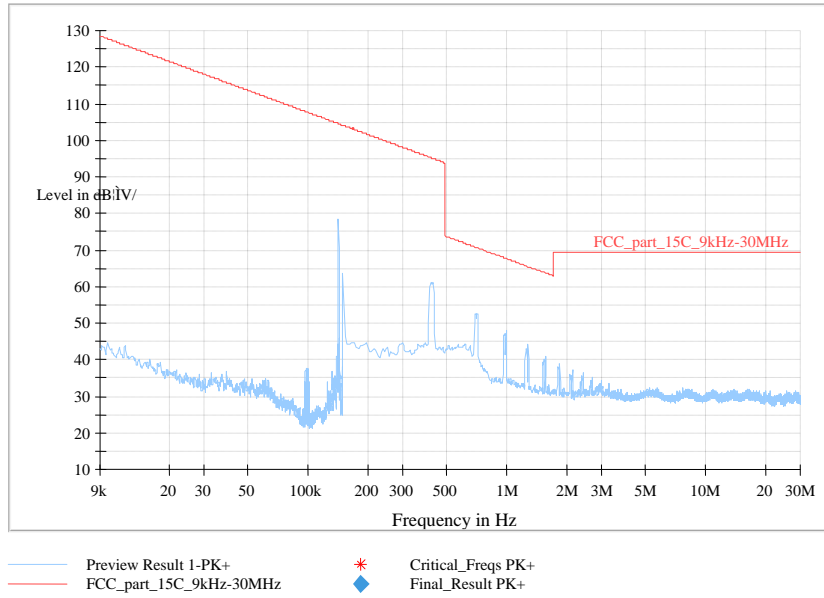


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

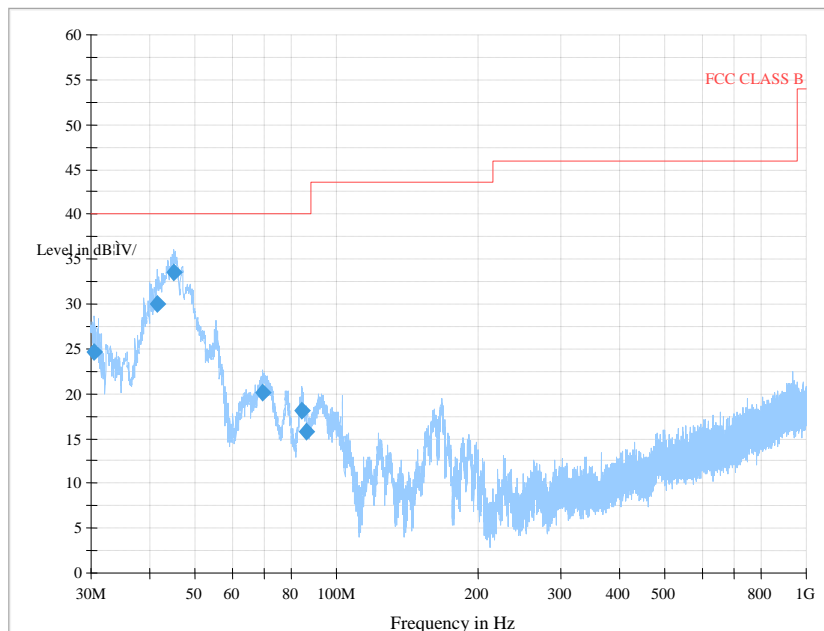
Carrier frequency (MHz): 2422

Channel No.:3

Full Spectrum

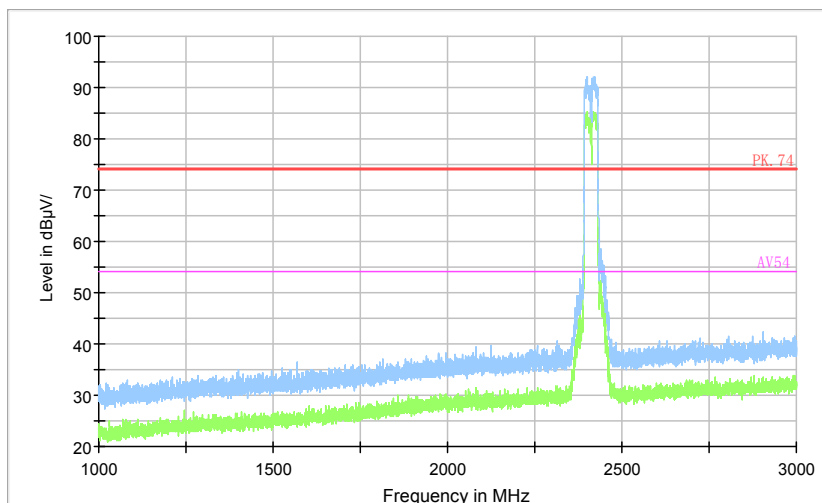


Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11n(HT40 MIMO)



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40 MIMO)

Full Spectrum

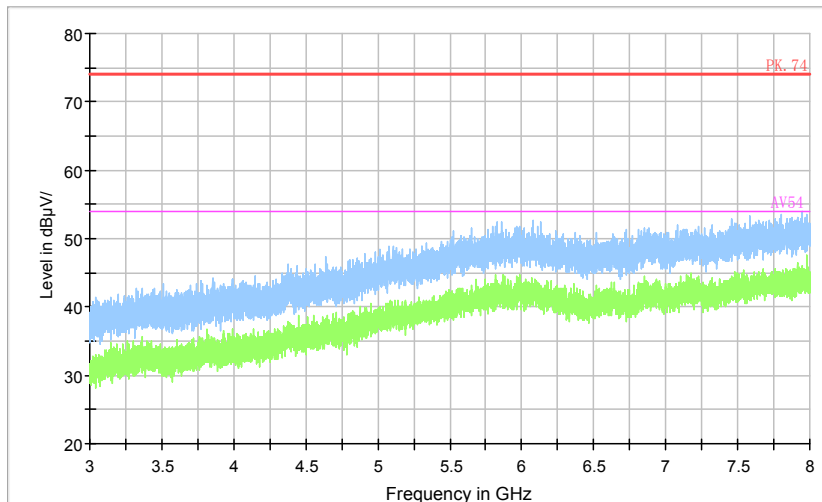


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

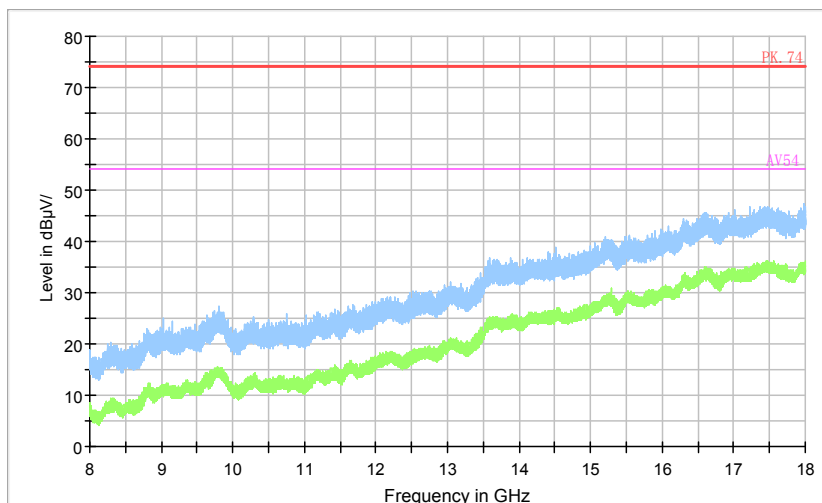


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

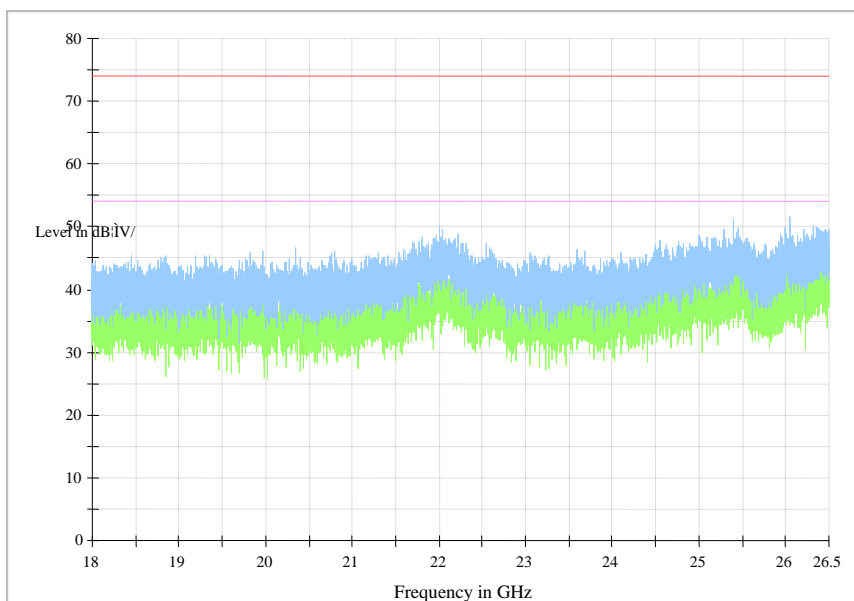


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

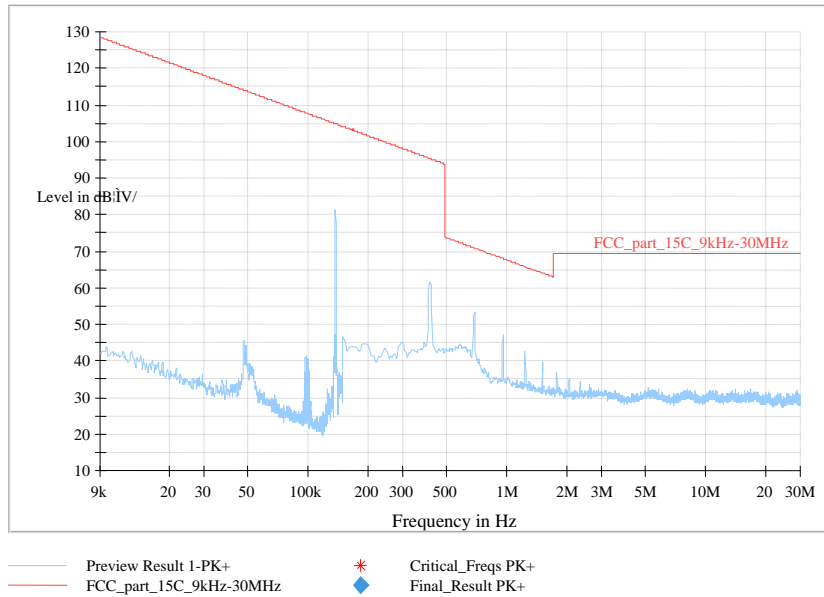


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40 MIMO)

Carrier frequency (MHz): 2437

Channel No.:6

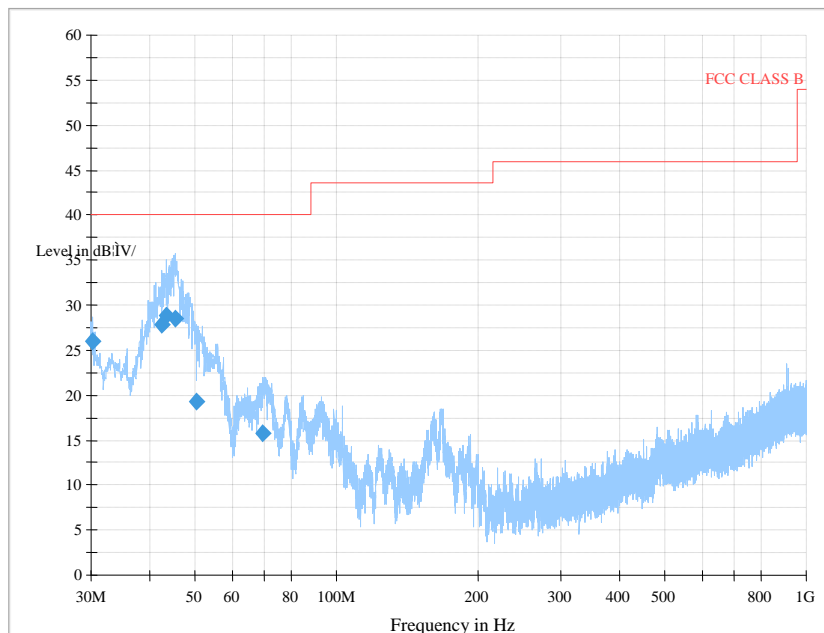
Full Spectrum



Frequency Range: 9kHz -30MHz

Detector: PK mode

Test Mode: 802.11b

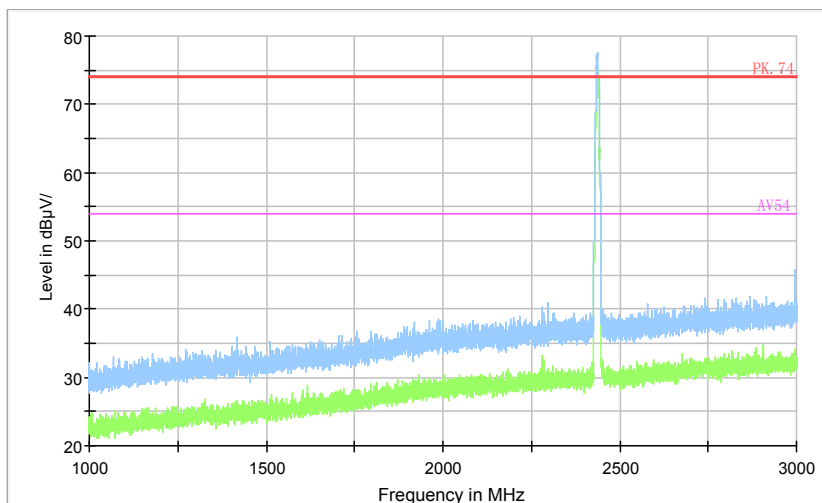


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11b

Full Spectrum

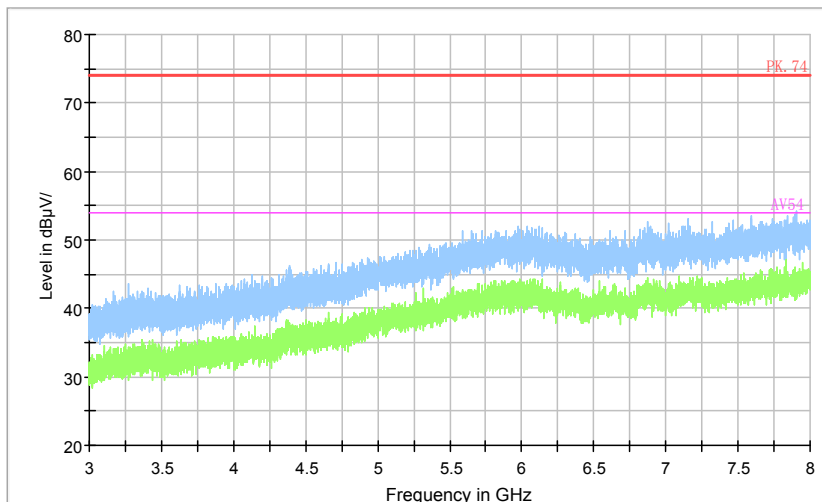


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum

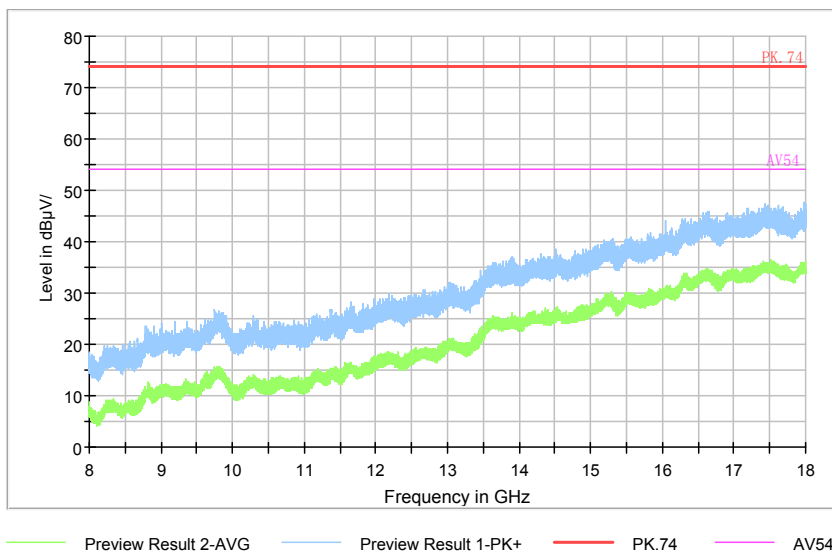


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

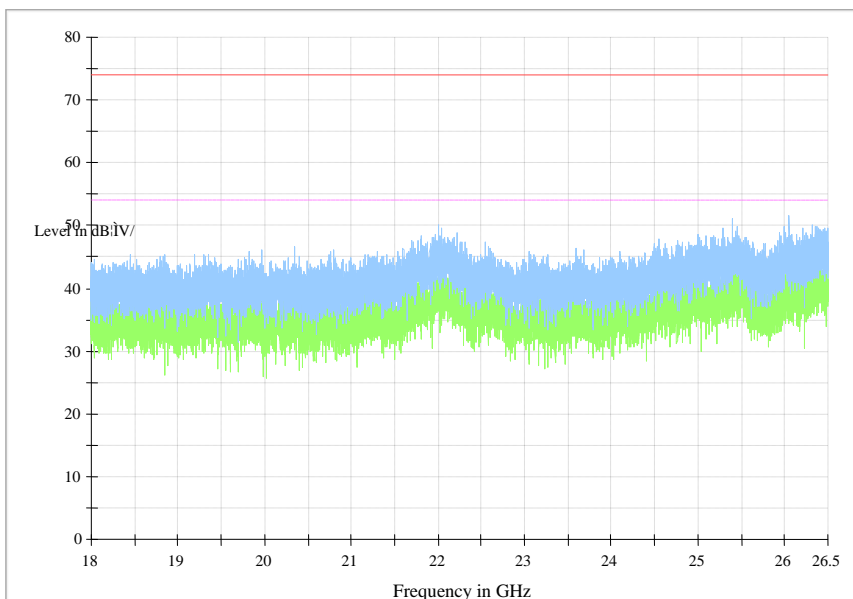
Full Spectrum



Comment

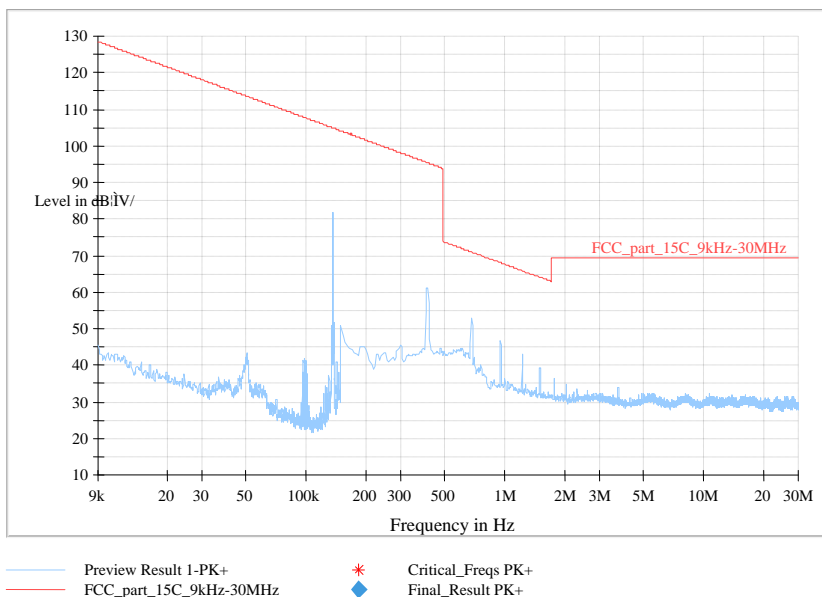
Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

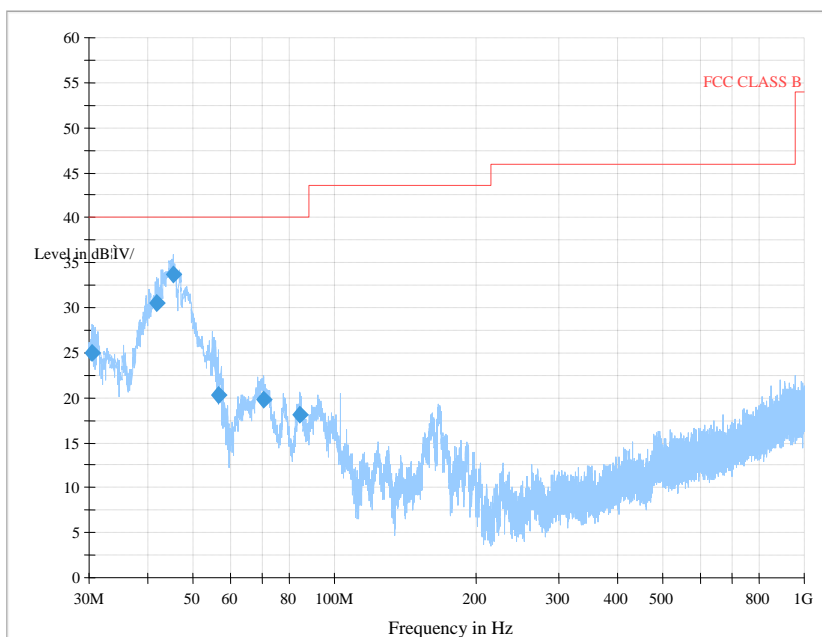


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

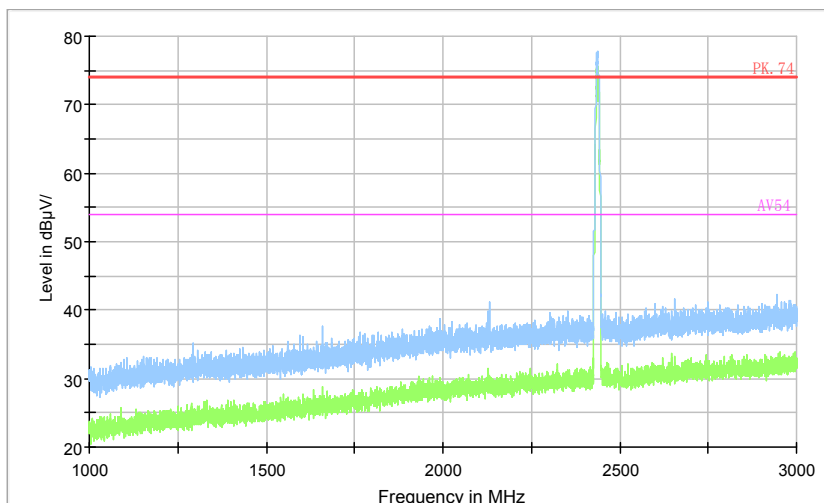


Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11g



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum

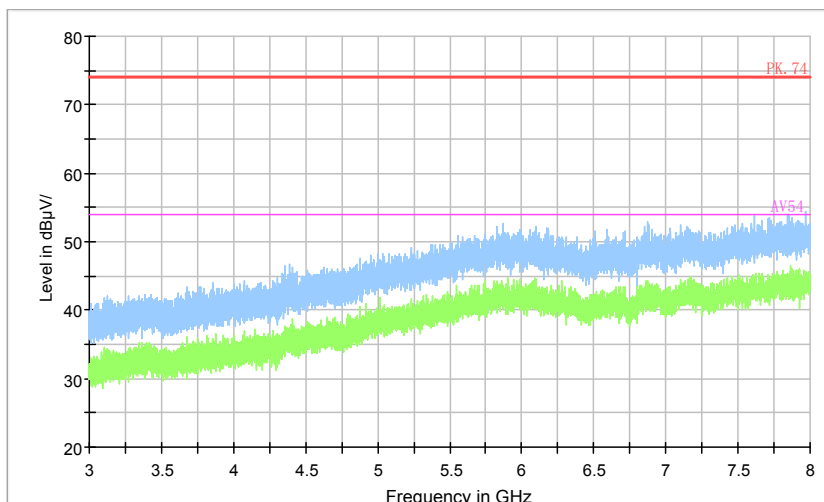


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

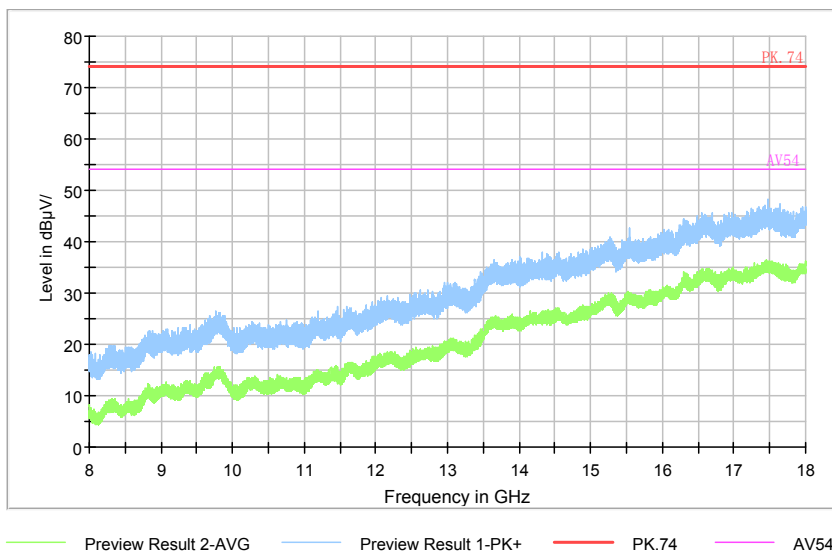


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

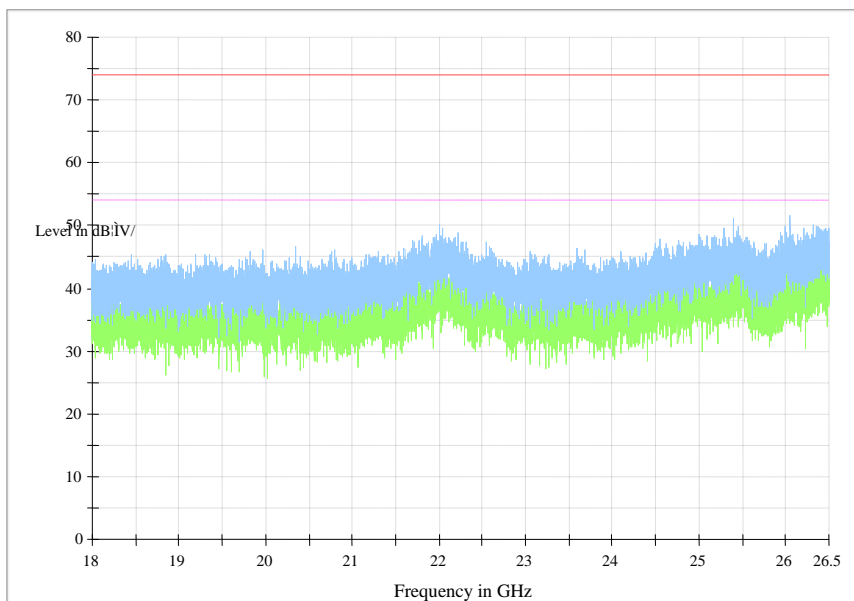
Full Spectrum



Comment

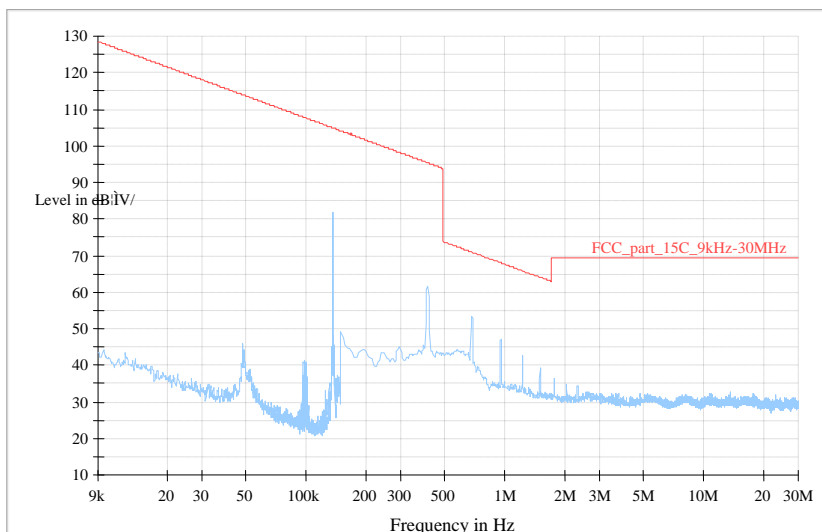
Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

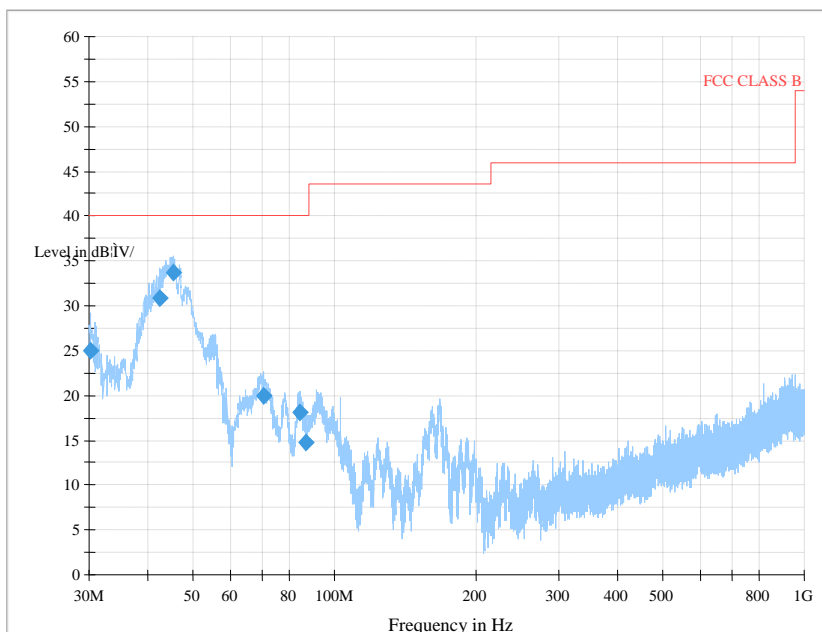


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

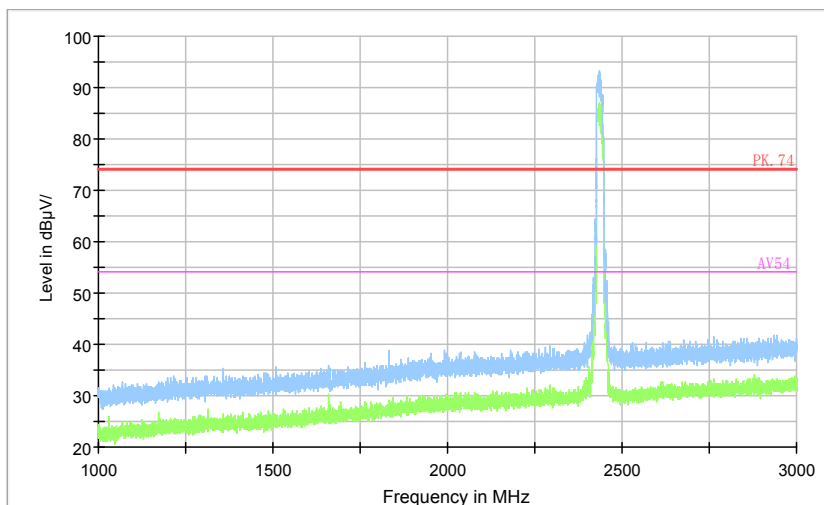


Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11n(HT20 MIMO)



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

Full Spectrum

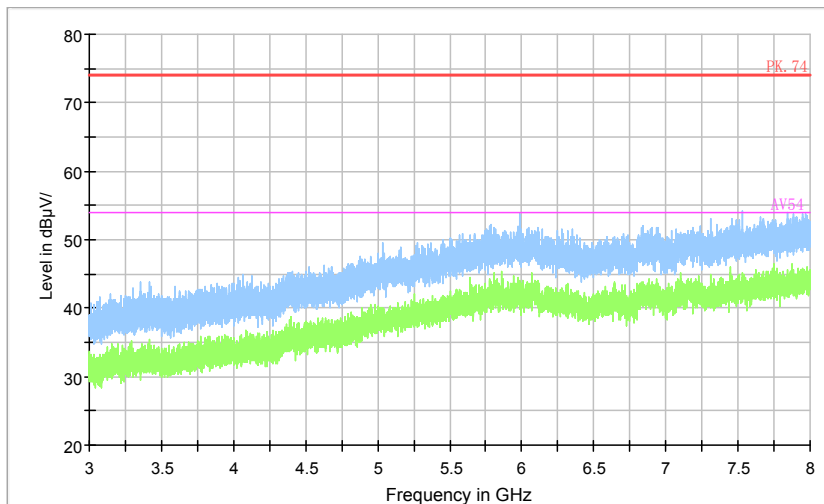


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

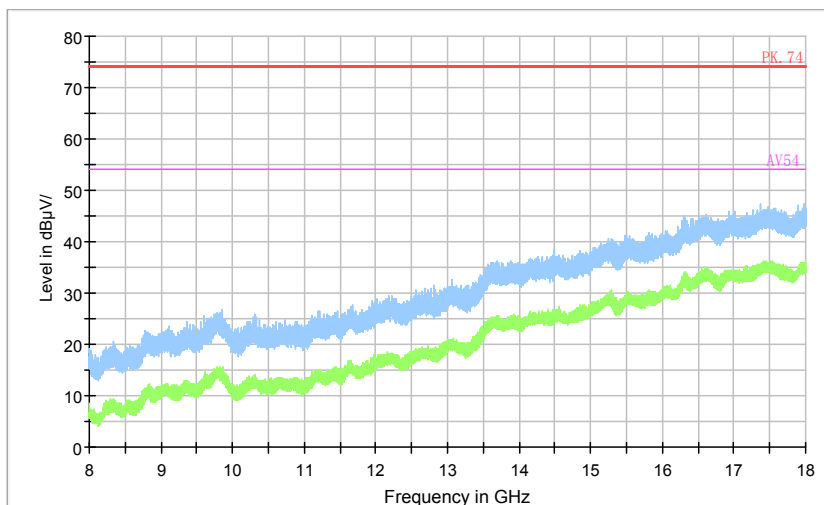


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

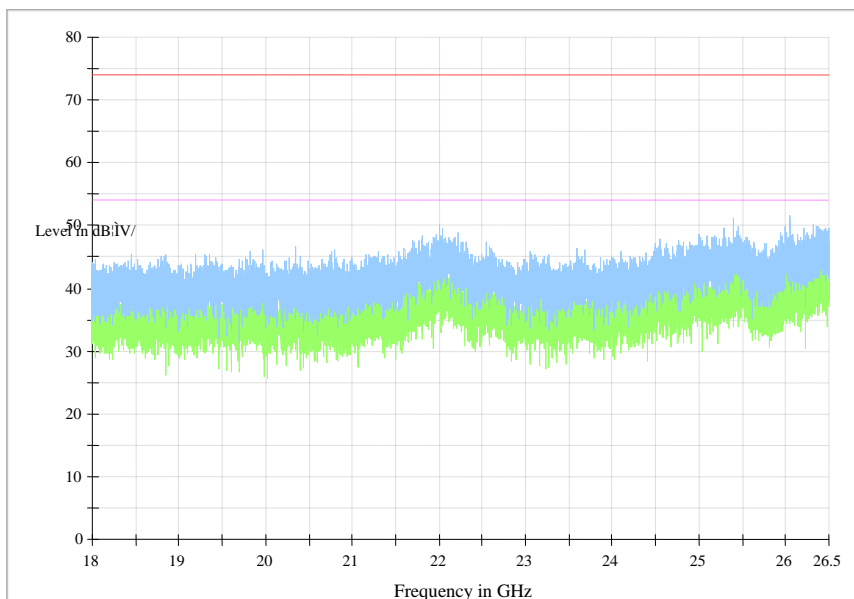


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

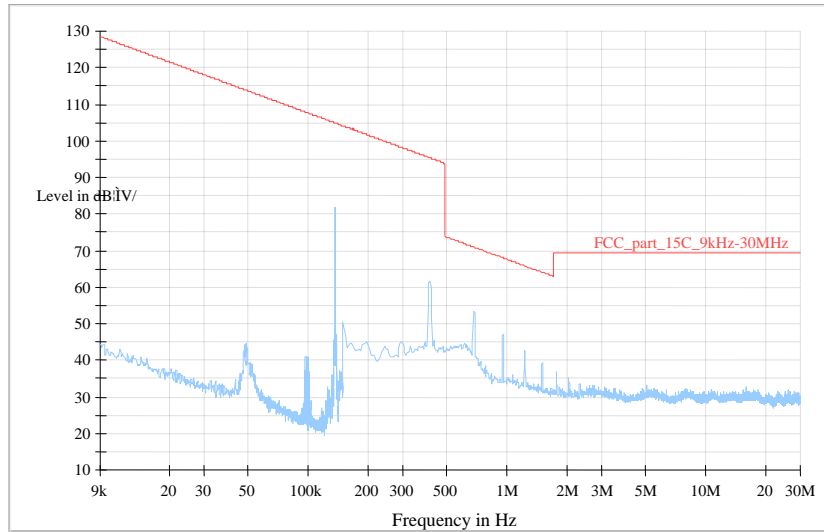
Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

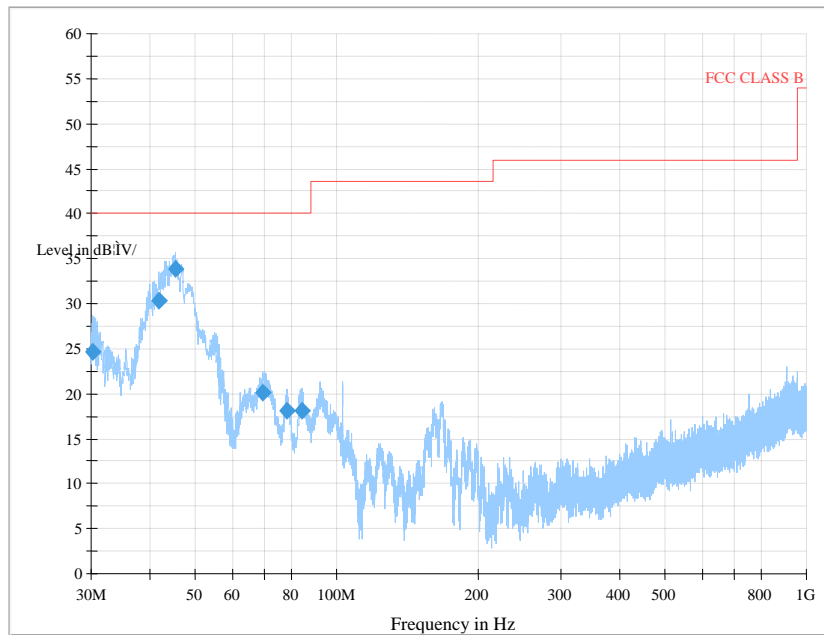


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

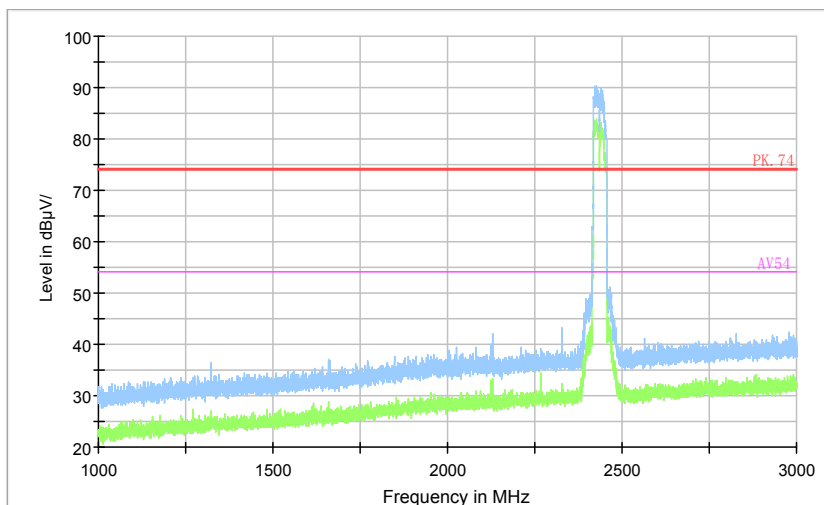


Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11n(HT40 MIMO)



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40 MIMO)

Full Spectrum

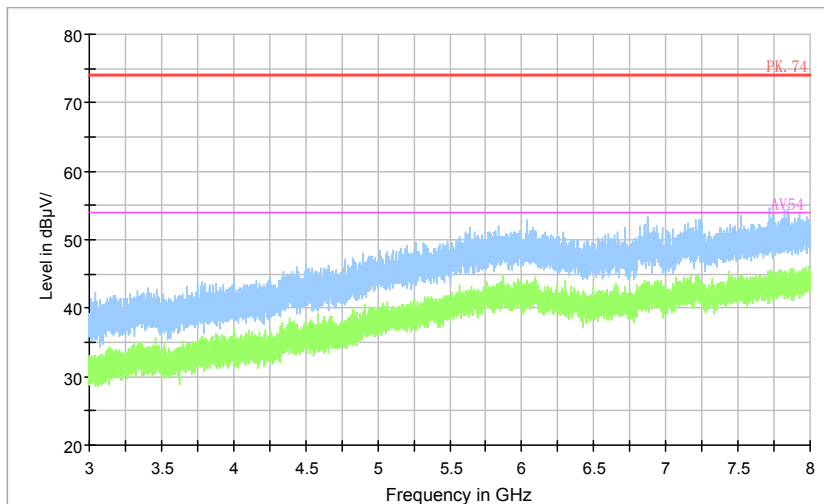


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

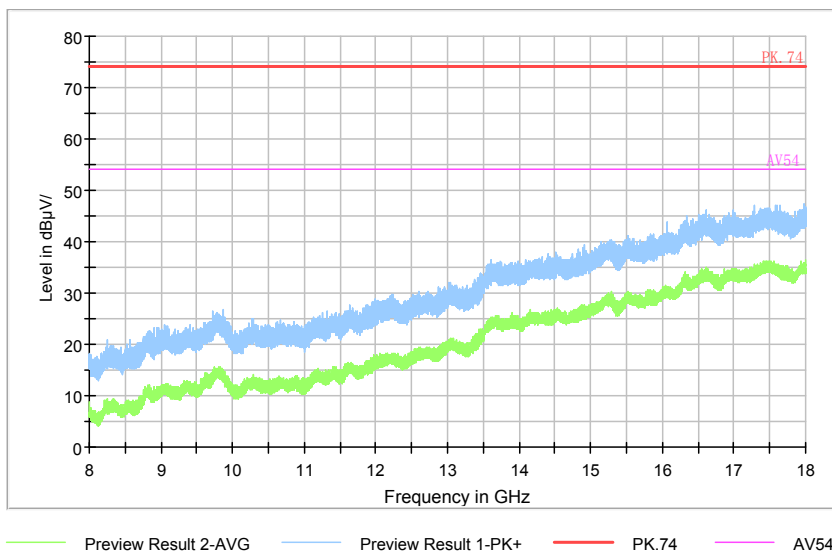


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

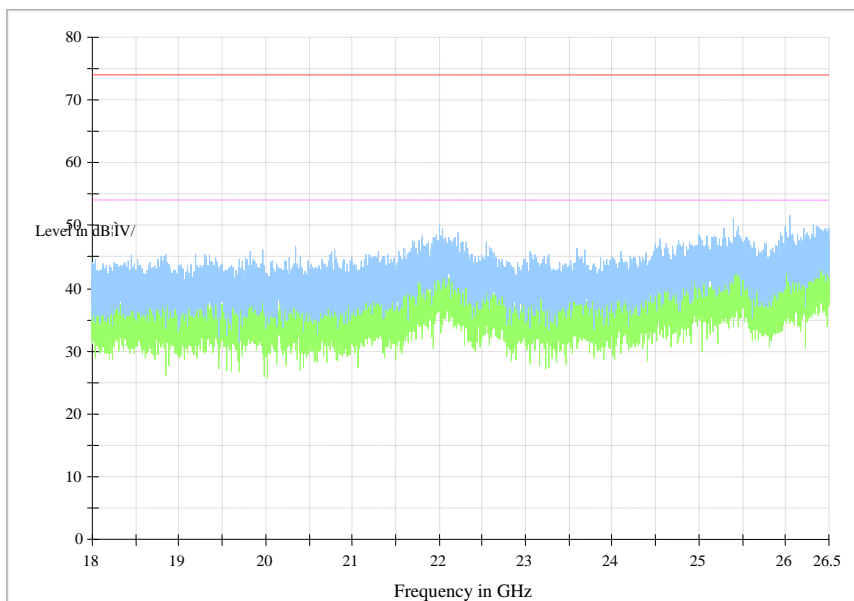
Full Spectrum



Comment

Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

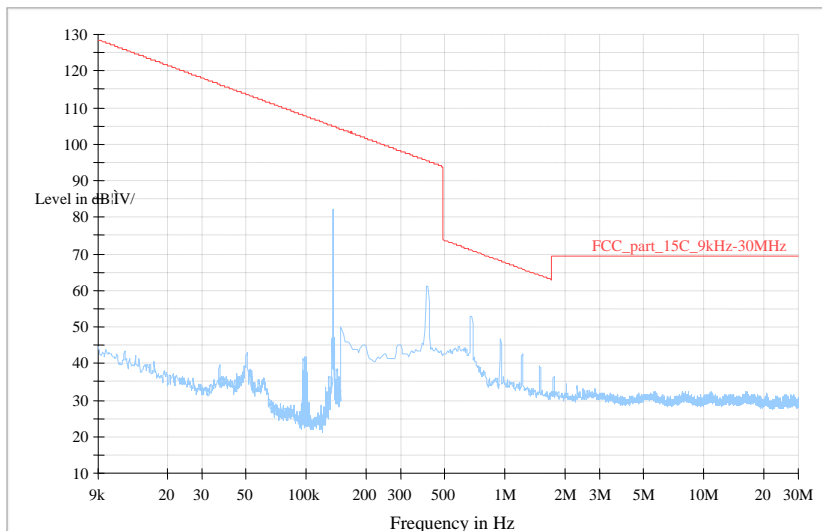


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Carrier frequency (MHz): 2462

Channel No.:11

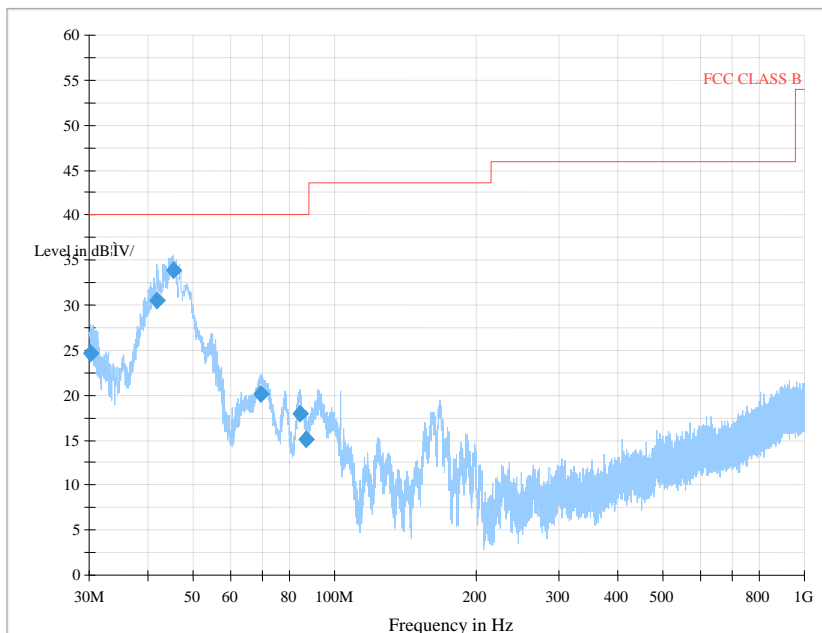
Full Spectrum



Frequency Range: 9kHz -30MHz

Detector: PK mode

Test Mode: 802.11b

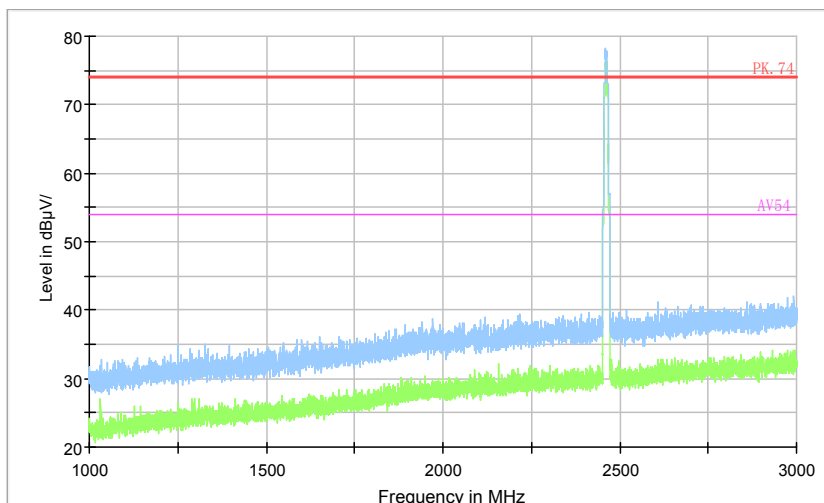


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11b

Full Spectrum

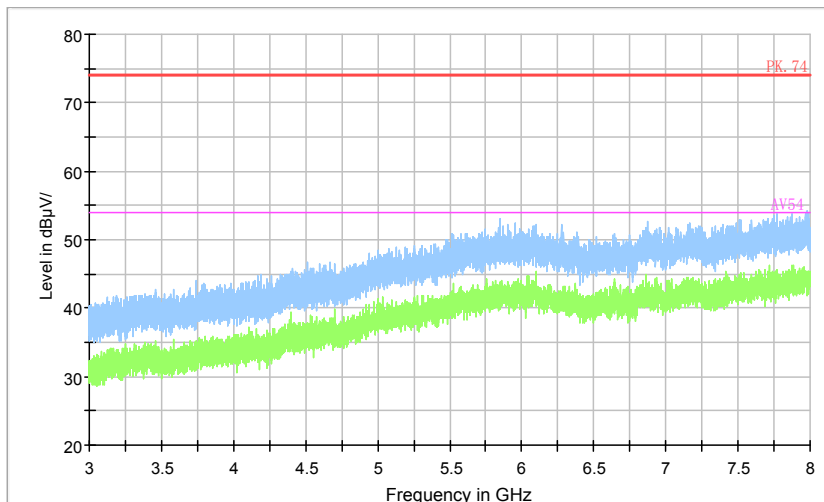


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum

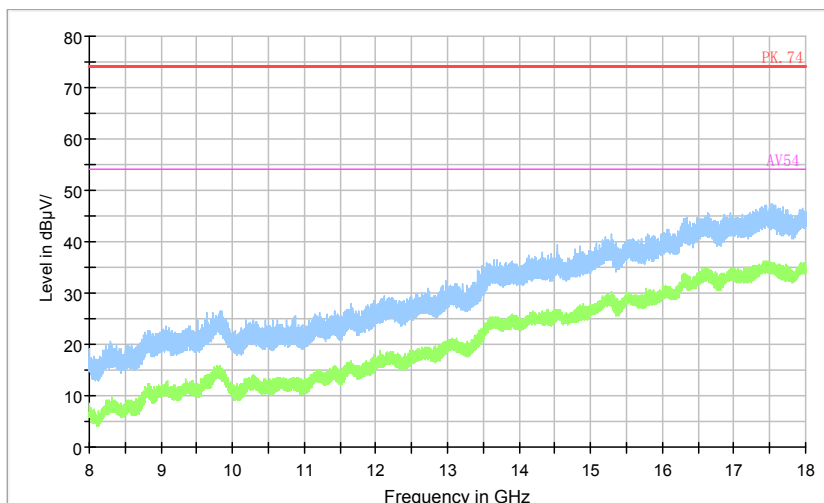


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum

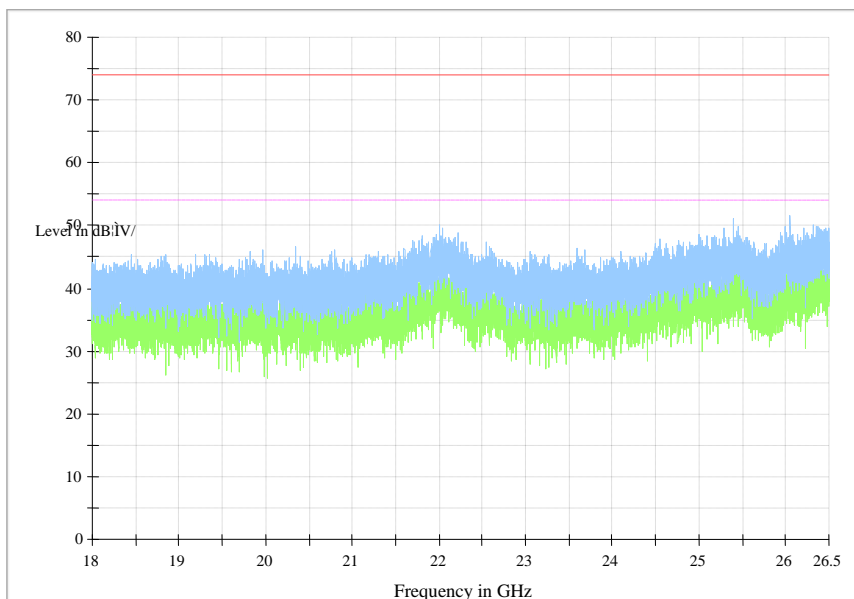


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

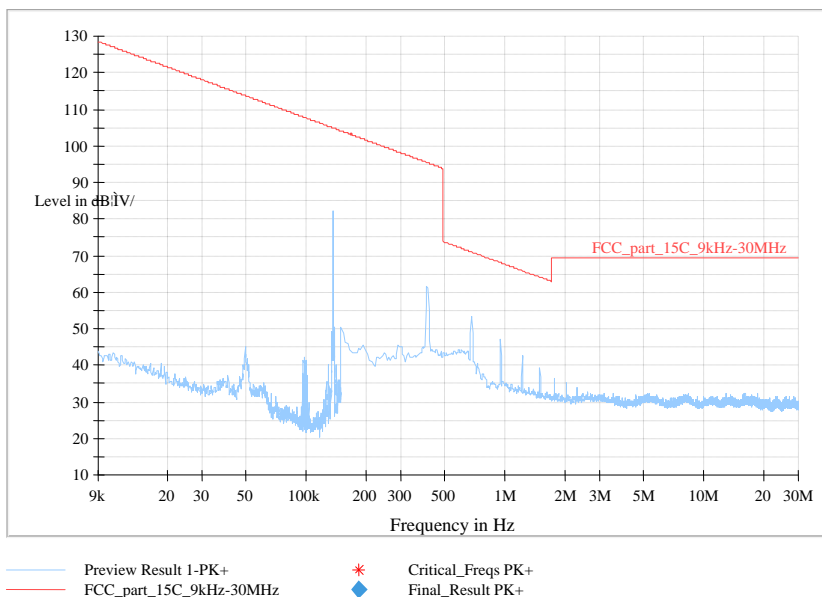
Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

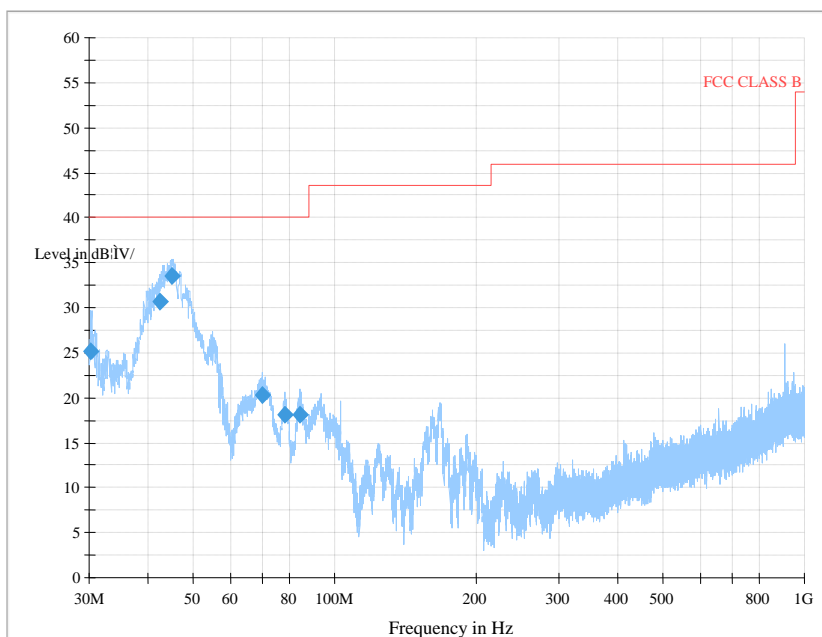


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum

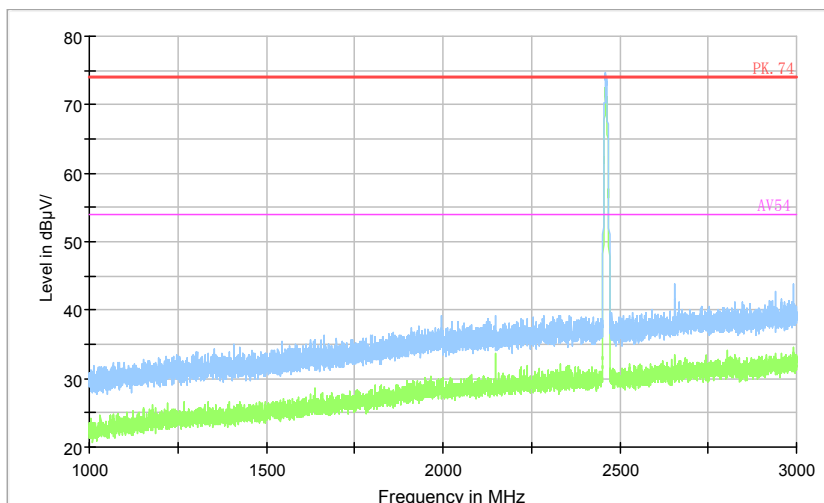


Frequency Range: 9kHz -30MHz
 Detector: PK mode
 Test Mode: 802.11g



Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum

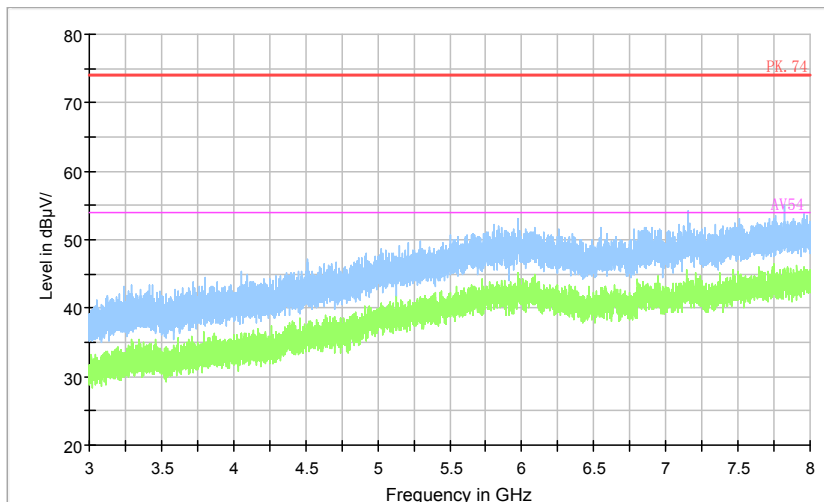


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

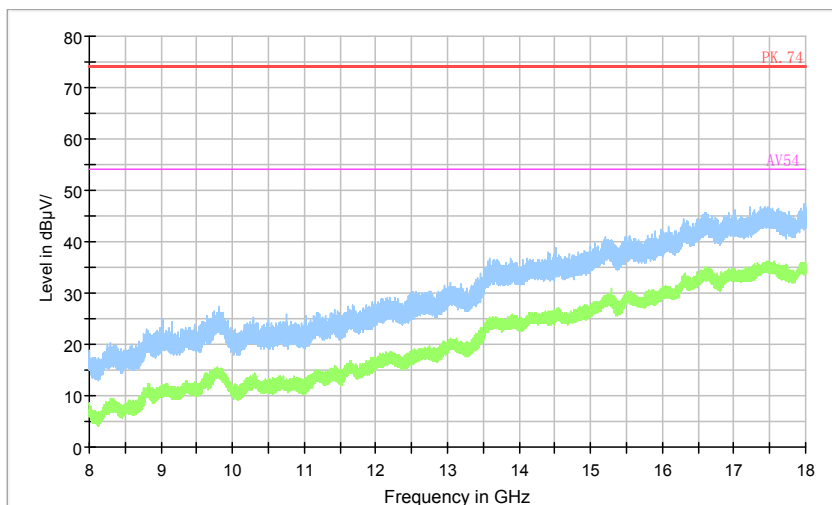


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

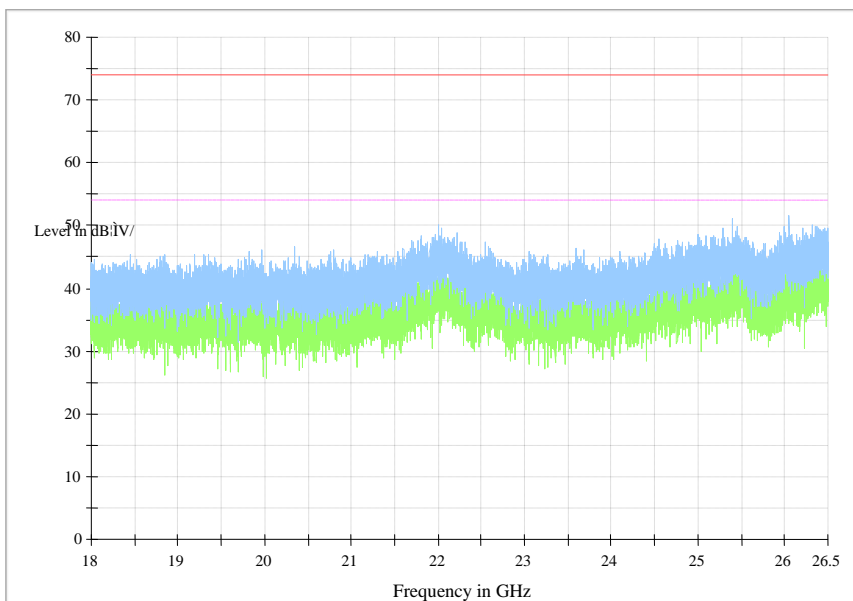


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

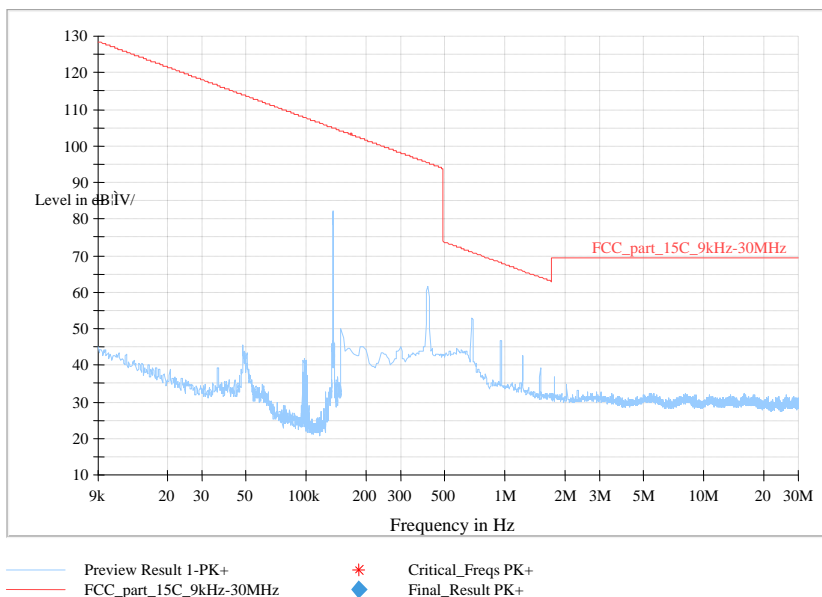
Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

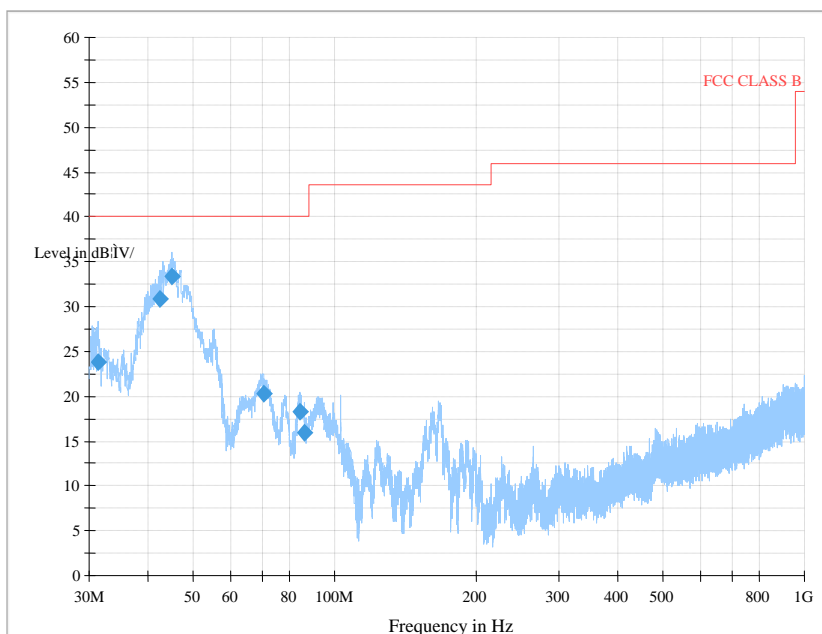


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum

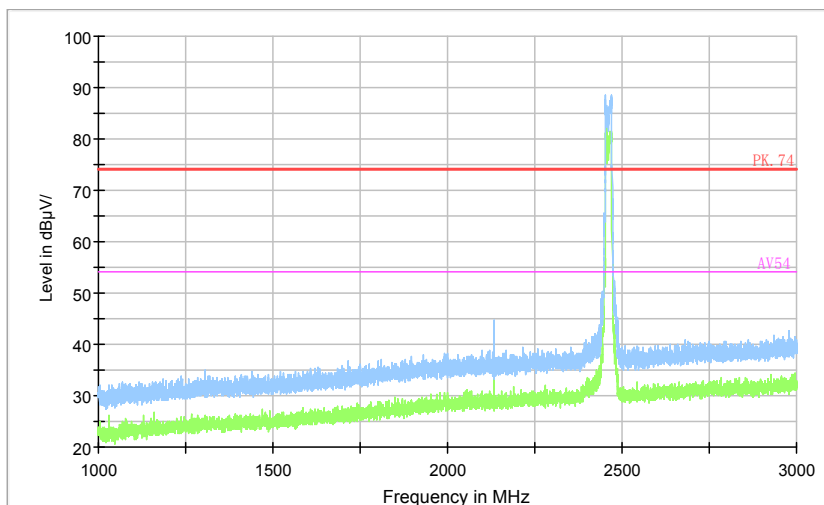


Frequency Range: 9kHz -30MHz
Detector: PK mode
Test Mode: 802.11n(HT20 MIMO)



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

Full Spectrum

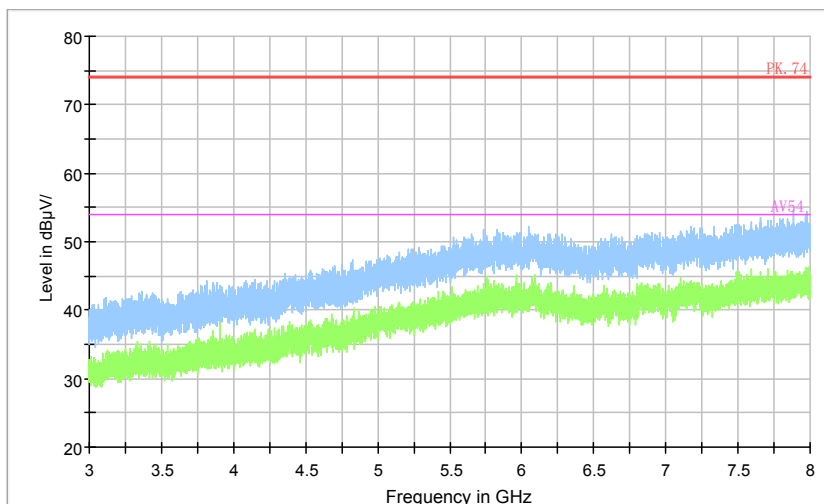


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

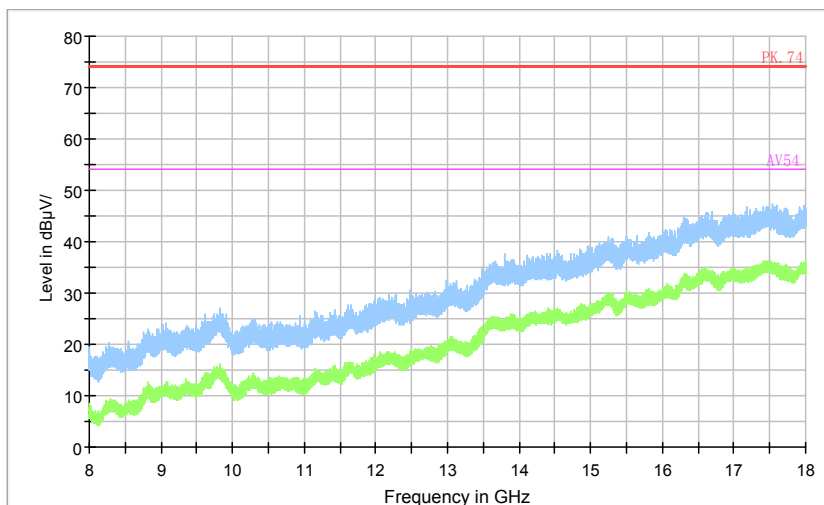


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

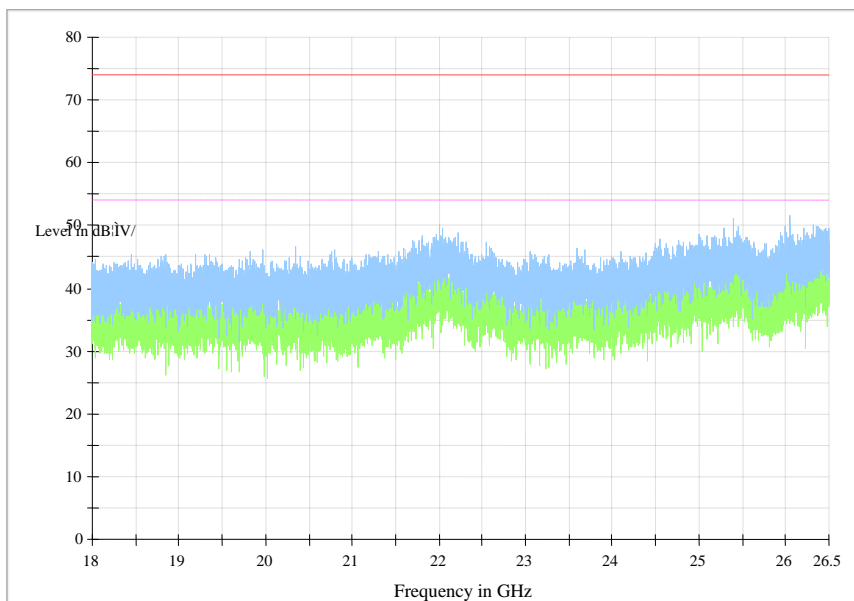


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

Full Spectrum

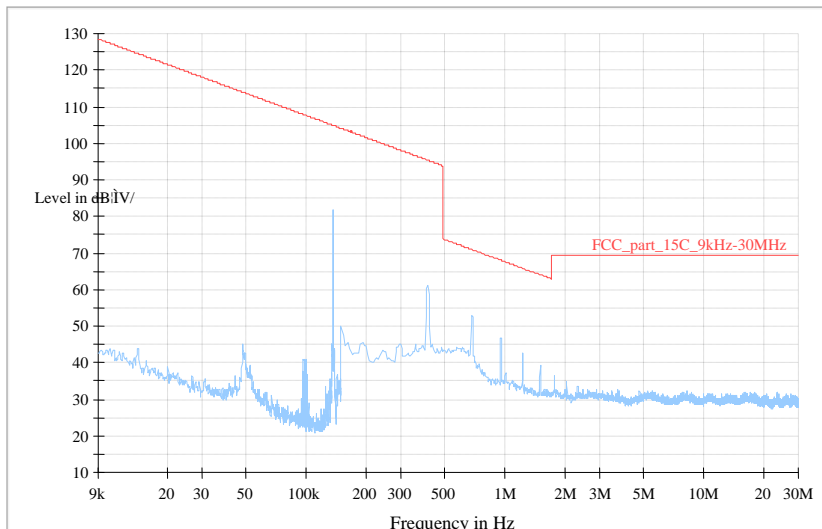


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20 MIMO)

Carrier frequency (MHz): 2452

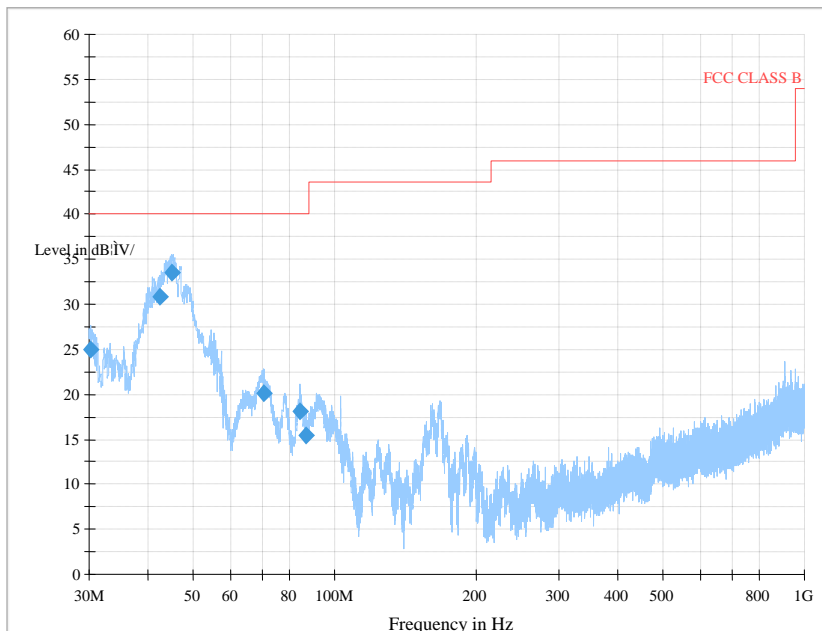
Channel No.:9

Full Spectrum



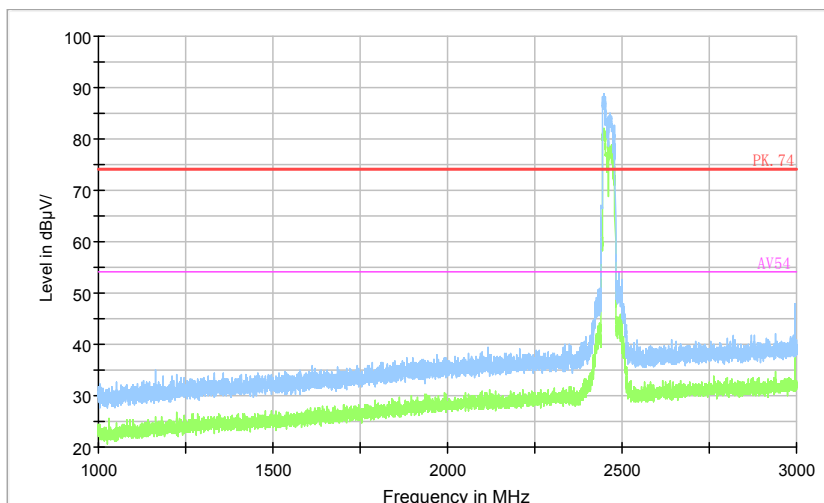
— Preview Result 1-PK+ * Critical_Freqs PK+
 — FCC_part_15C_9kHz-30MHz ◆ Final_Result PK+

Frequency Range: 9kHz -30MHz
 Detector: PK mode
 Test Mode: 802.11n(HT40 MIMO)



Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT40 MIMO)

Full Spectrum

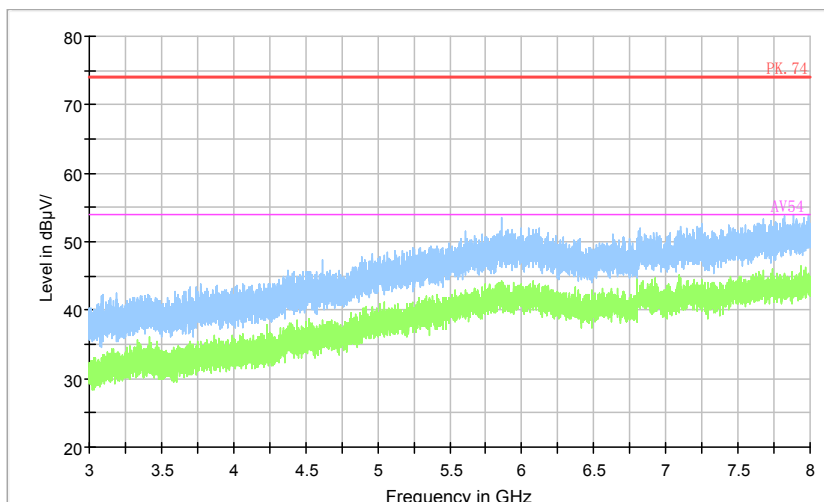


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

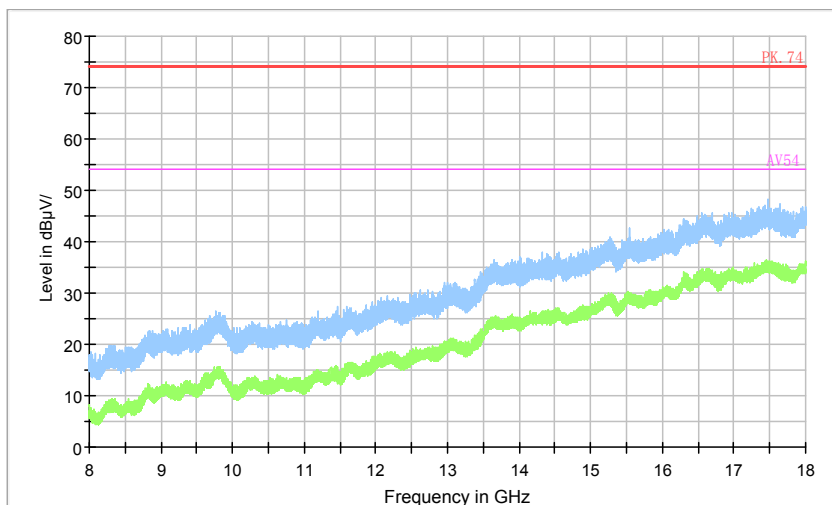


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 3GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum

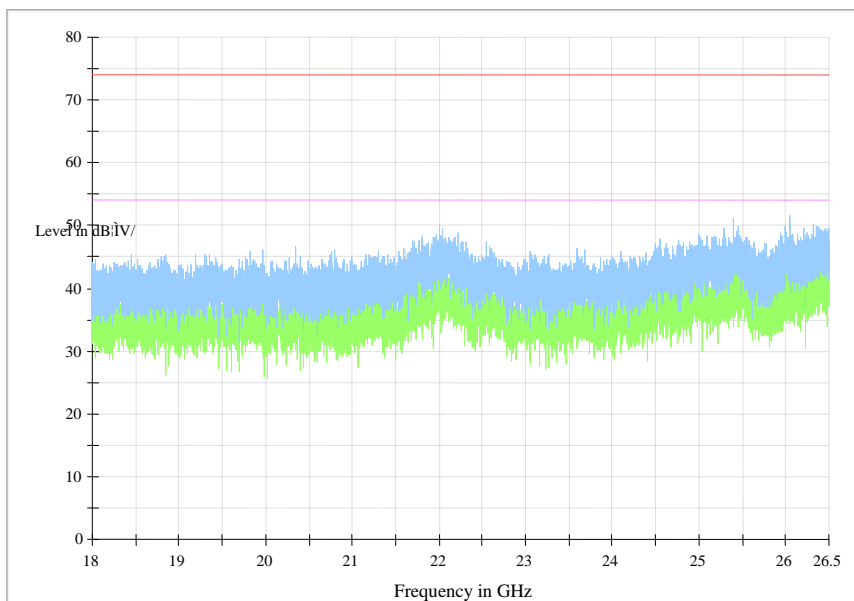


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40 MIMO)

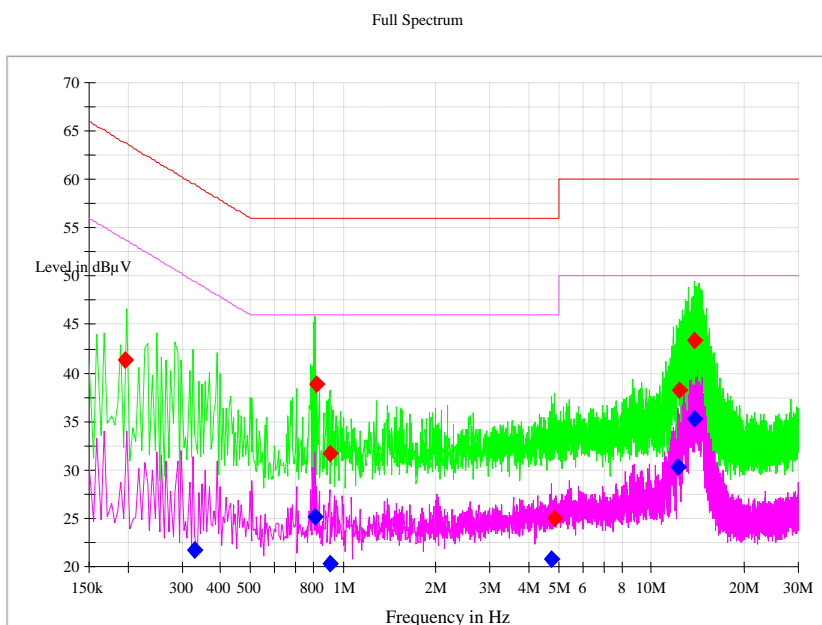
AC Power line Conducted Emission (EUT TX on (11b) + charging)

A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}}+\text{ATT}+\text{VDF}$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(41.34 \text{ dB}\mu\text{V}) = (11.44 \text{ dB}\mu\text{V}) + (29.9 \text{ dB})$, the corresponding frequency is 0.197250MHz.



MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea Quasi Peak (dBμV)	Pmea Average (dBμV)
0.197250	41.34	---	63.73	22.39	L1	29.9	11.44	---
0.327886	---	21.67	49.51	27.84	N	30.0	---	-8.33
0.811295	---	25.10	46.00	20.90	N	29.9	---	-4.8
0.816341	38.79	---	56.00	17.21	N	29.9	8.89	---
0.910795	31.65	---	56.00	24.35	L1	29.9	1.75	---
0.910795	---	20.37	46.00	25.63	N	29.9	---	-9.53
4.748682	---	20.74	46.00	25.26	N	29.9	---	-9.16
4.826091	24.97	---	56.00	31.03	L1	29.9	-4.93	---
12.143159	---	30.35	50.00	19.65	N	29.9	---	0.45
12.356432	38.17	---	60.00	21.83	N	29.9	8.27	---
13.812750	---	35.28	50.00	14.72	L1	30.0	---	5.28
13.852750	43.34	---	60.00	16.66	N	30.0	13.34	---

---End of Test Report---