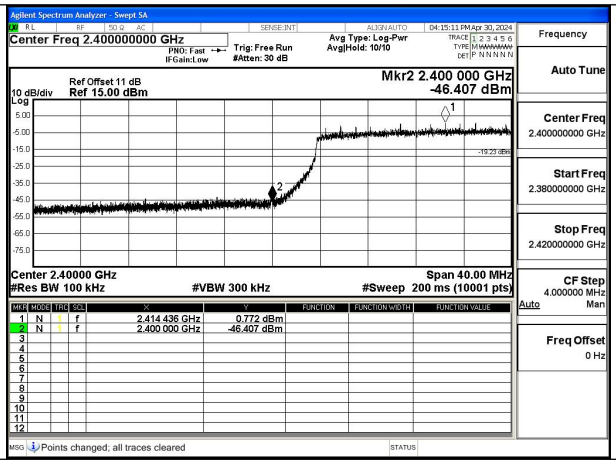
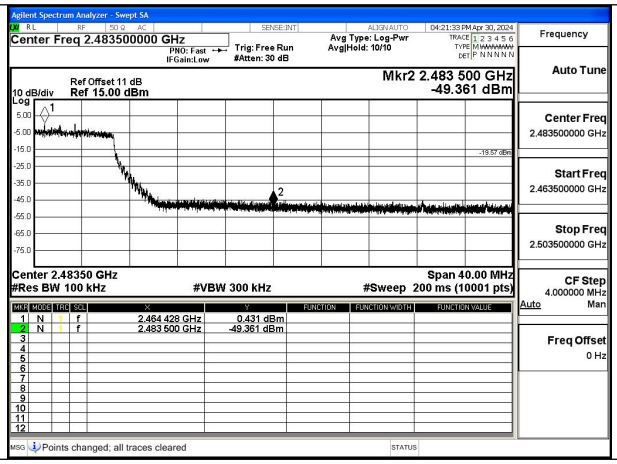
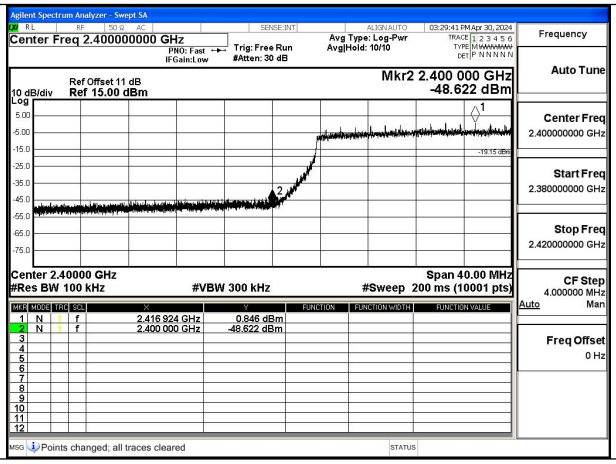
Test Mode: 802.11n HT40



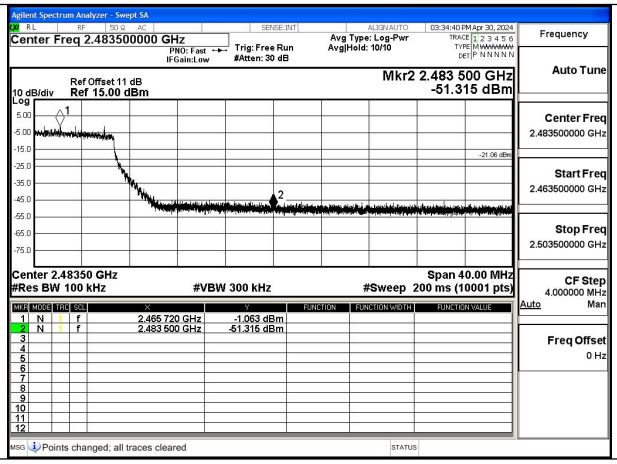
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0



Mode:802.11n HT40 Frequency:2422MHz Ant:Chain1



Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

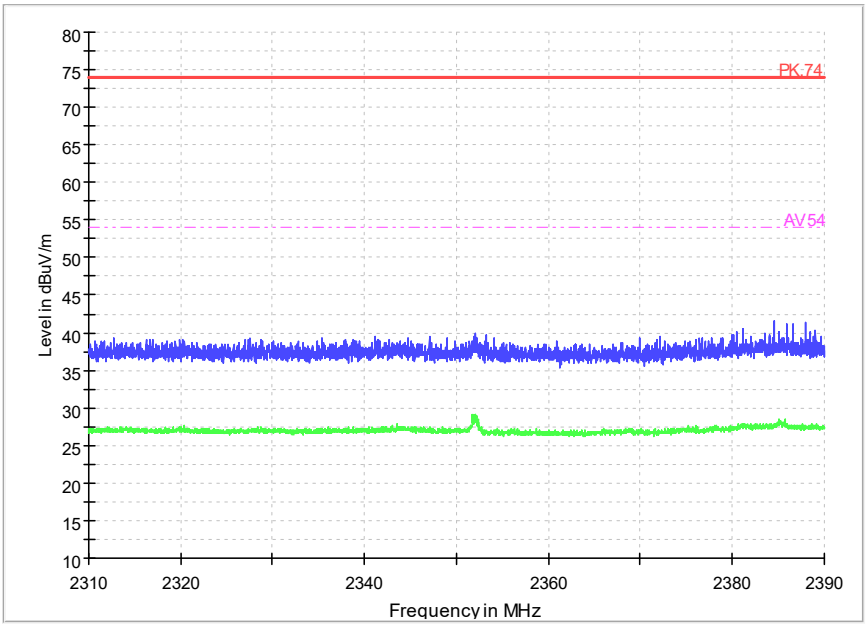
APPENDIX B – TEST DATA OF RADIATED EMISSION

Note：The worst channel results are reflected in the report.

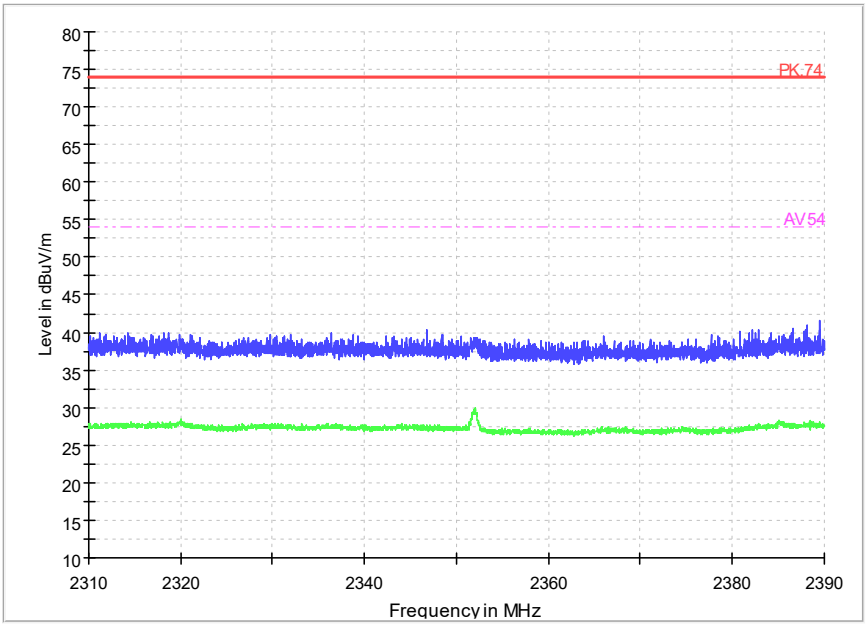
Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

.

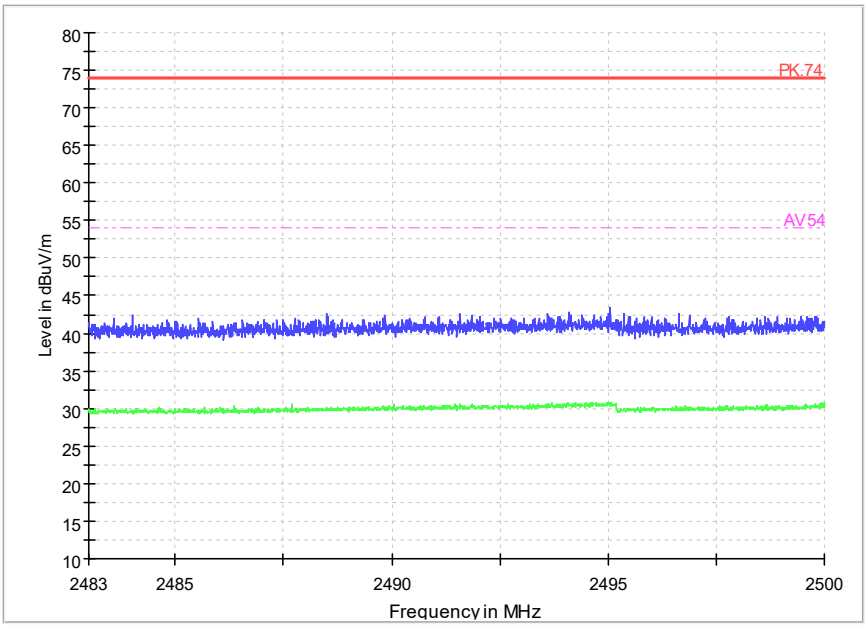
Radiated Emission Band Edge



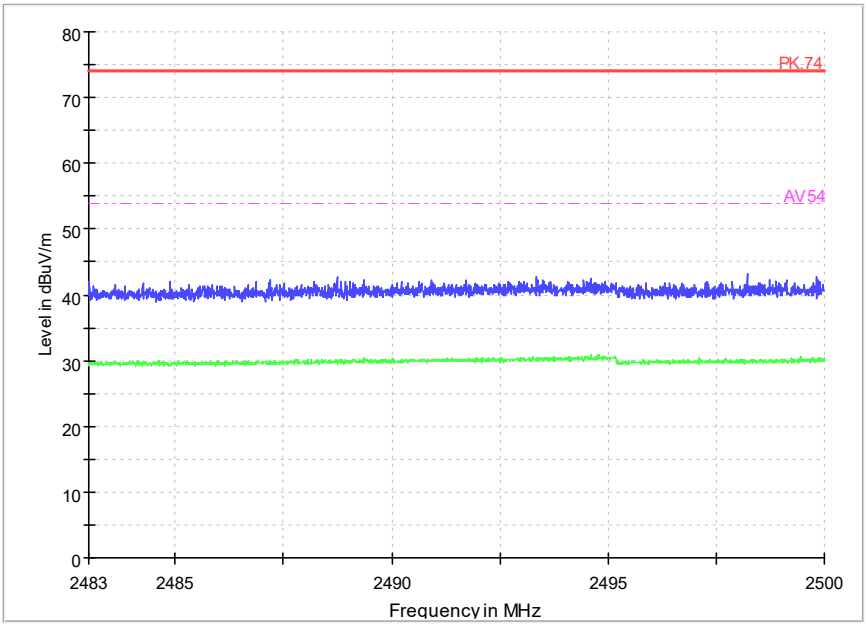
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：V



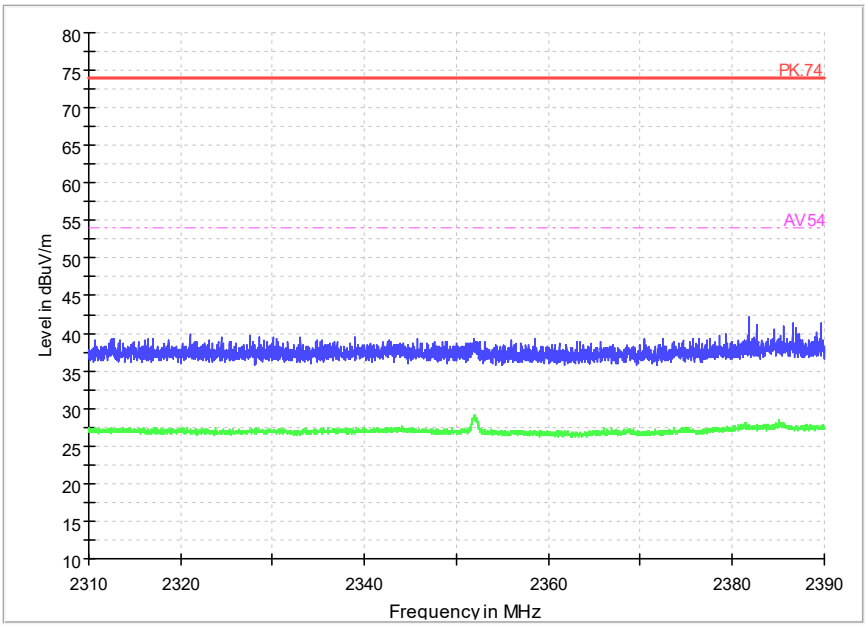
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization： H



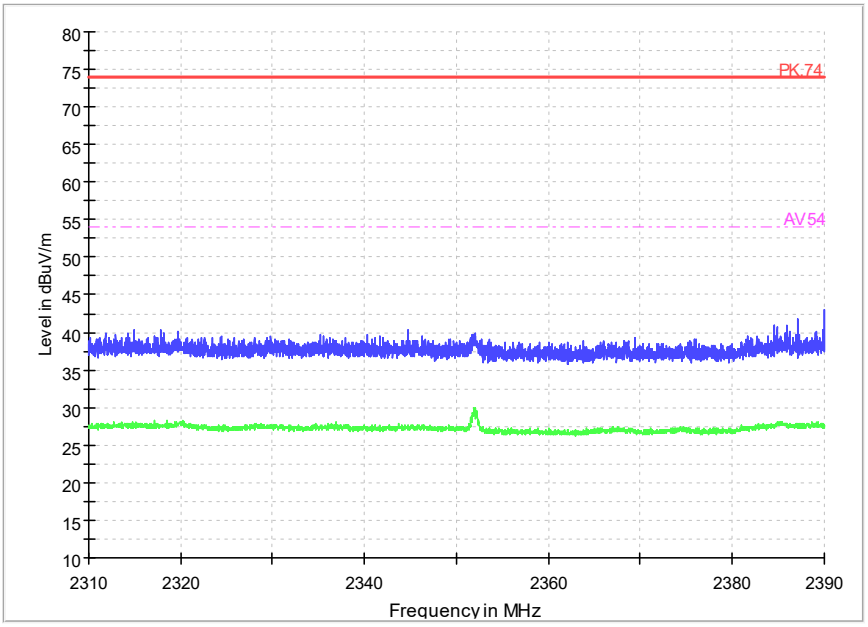
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization： V



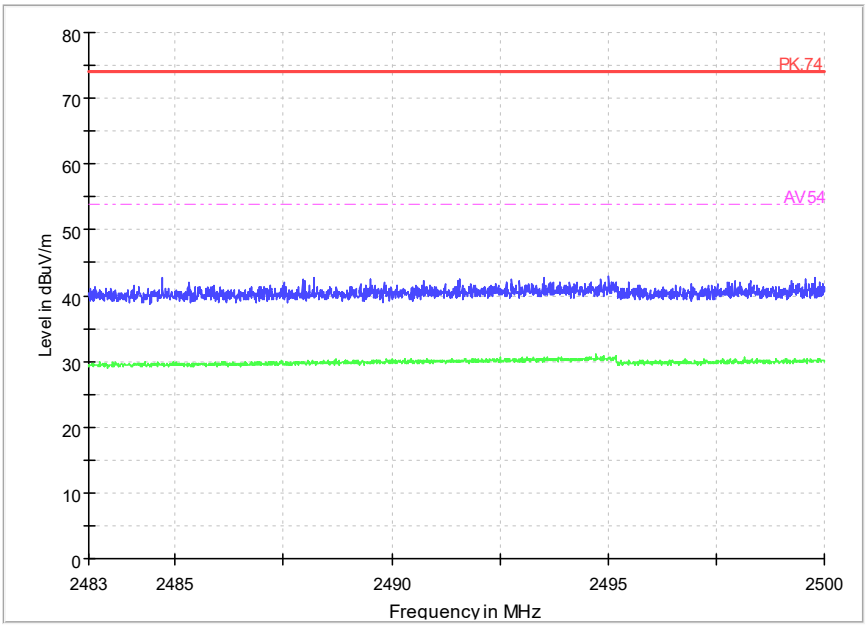
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization：H



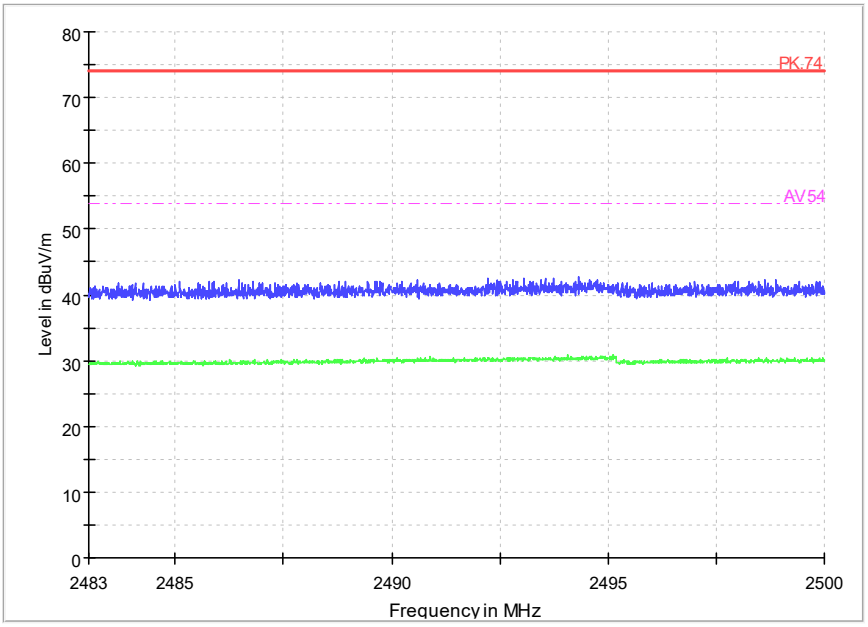
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization：V



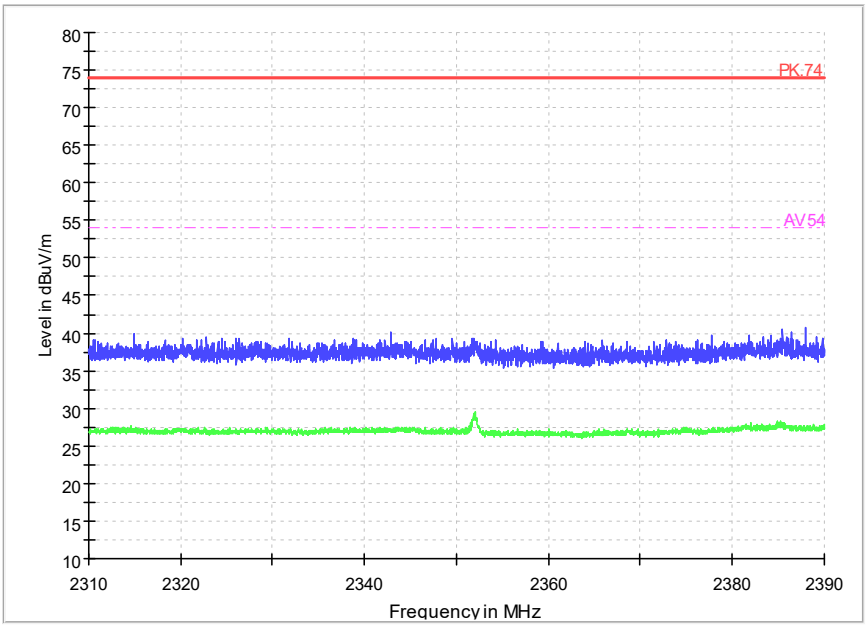
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization： H



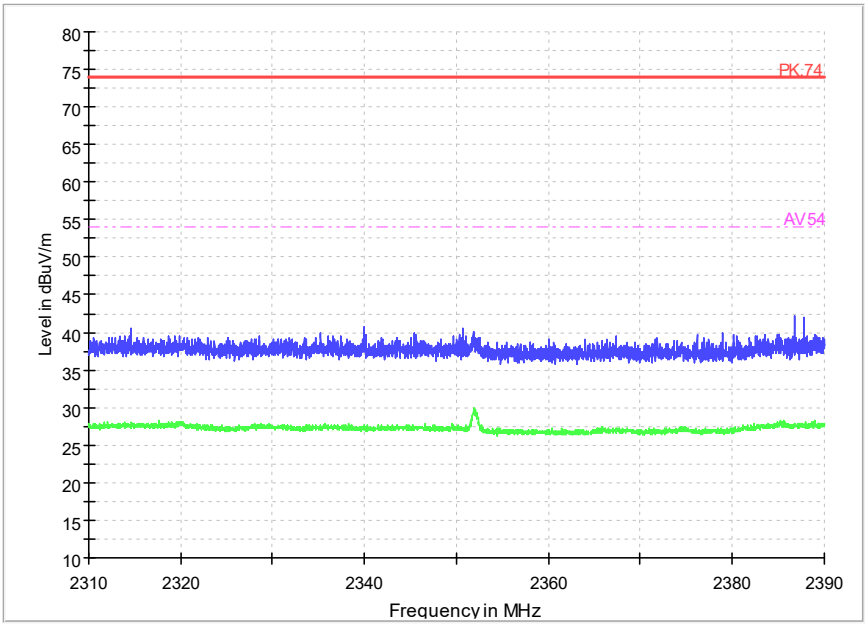
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization： V



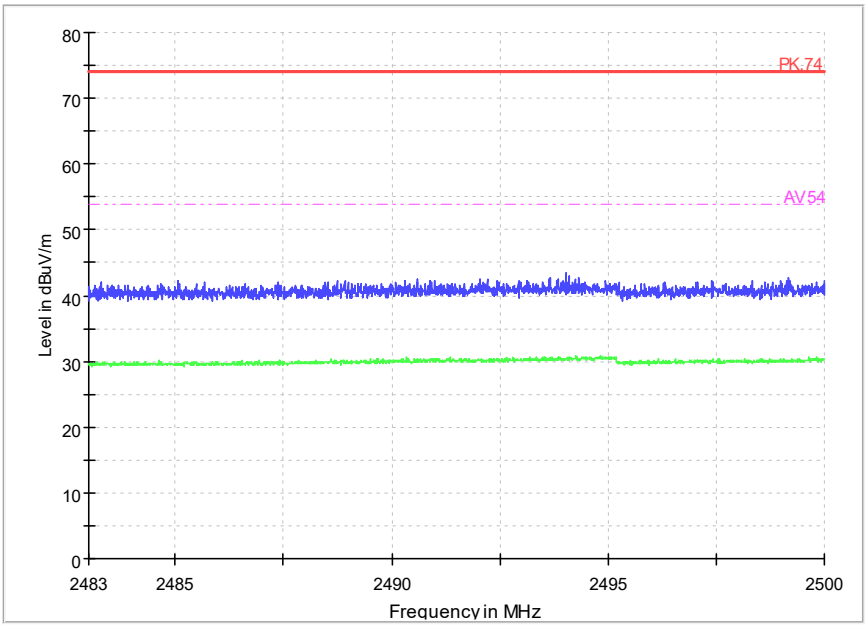
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization： H



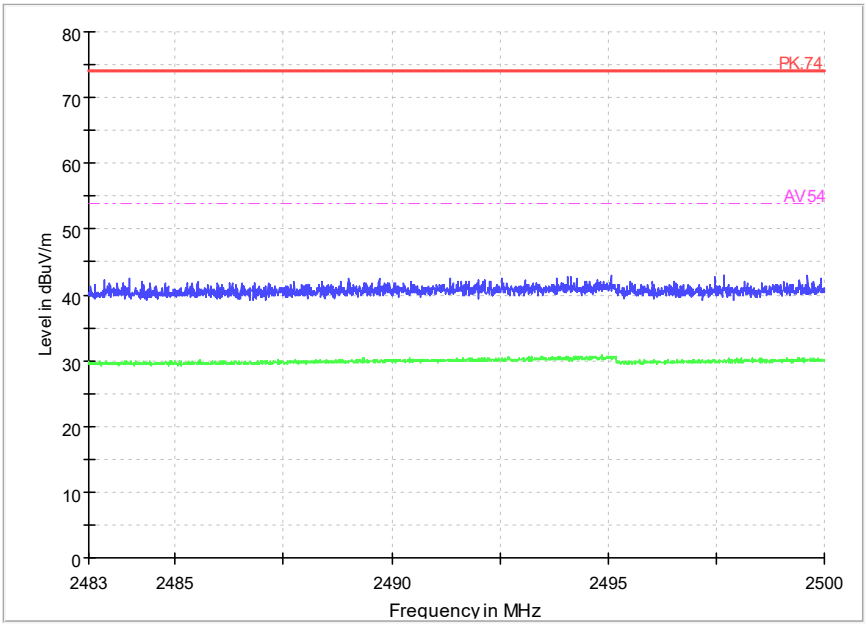
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization： V



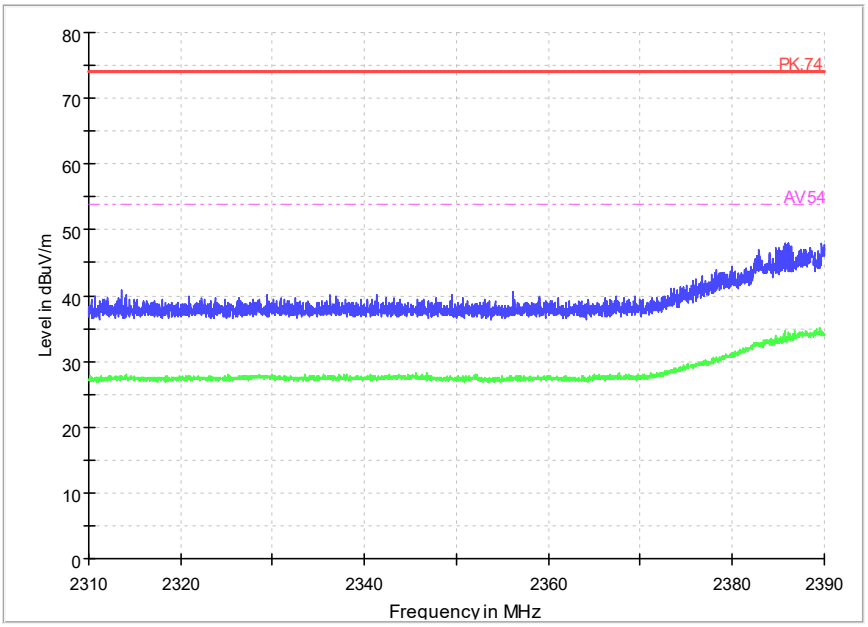
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization： H



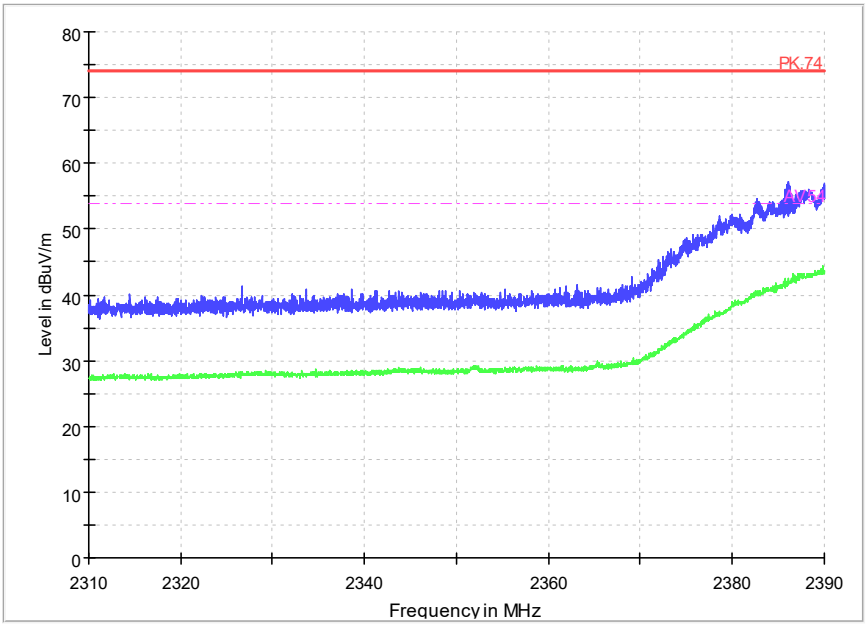
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization： V



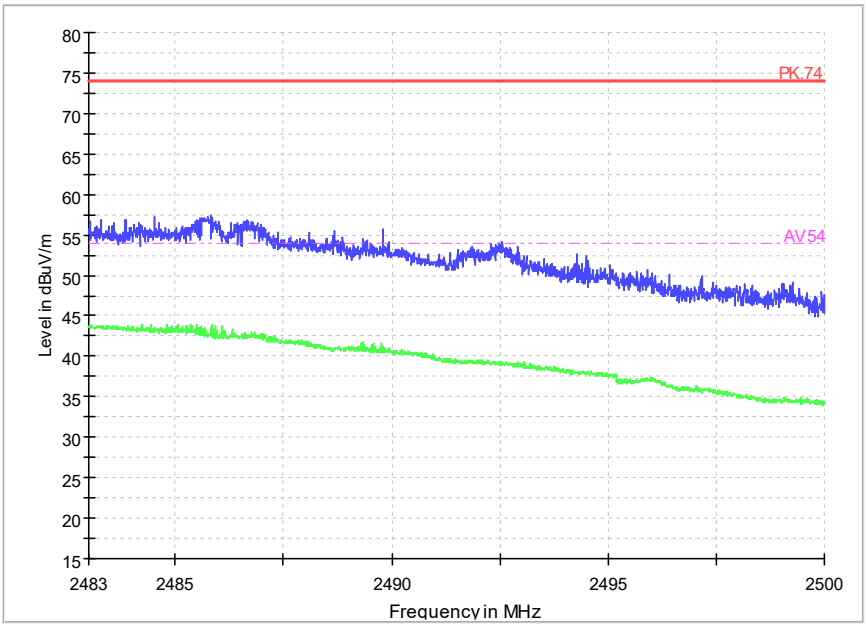
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization： H



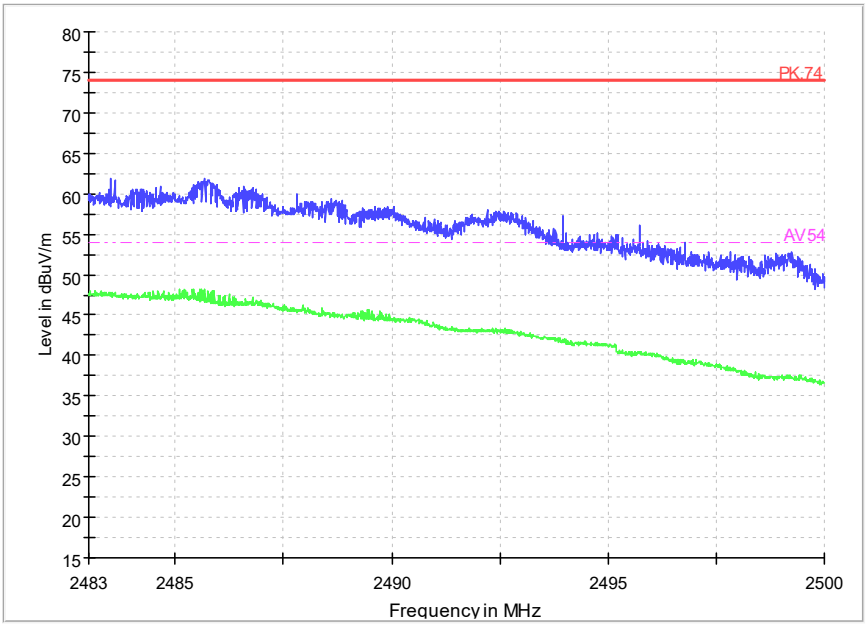
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization： V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization： H



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization： V



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization：H

Sample Calculations

After comparison,the worst case attitude is EUT lay down.

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:
Result= P_{mea}+ A_{Rpl}
Sample calculation: (24.78dBμV/m) = (44.28dBμV) + (-19.5dB/m), the corresponding frequency is38.1965MHz.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.1965	24.78	-19.5	44.28	Vertical	40	15.22
60.749	27.96	-20.1	48.06	Vertical	40	12.04
149.795	10.41	-22.7	33.11	Vertical	43.5	33.09
249.996	15.66	-18.5	34.16	Vertical	46	30.34
500.0135	28.6	-12.2	40.8	Vertical	46	17.4
577.274	23.22	-10.6	33.82	Vertical	46	22.78

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.2935	25.76	-19.4	45.16	Vertical	40	14.24
65.599	26.28	-21.3	47.58	Vertical	40	13.72
149.6495	10.36	-22.7	33.06	Vertical	43.5	33.14
310.6695	11.85	-16.8	28.65	Vertical	46	34.15
499.965	27.58	-12.2	39.78	Vertical	46	18.42
574.7035	23.85	-10.7	34.55	Vertical	46	22.15

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.536	25.34	-19.4	44.74	Vertical	40	14.66
64.3865	27.25	-21	48.25	Vertical	40	12.75
155.809	10.07	-22.4	32.47	Vertical	43.5	33.43
249.996	15.7	-18.5	34.2	Vertical	46	30.3
500.0135	28.55	-12.2	40.75	Vertical	46	17.45
574.7035	23.83	-10.7	34.53	Vertical	46	22.17

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.245	26.03	-19.4	45.43	Vertical	40	13.97
59.682	27.15	-19.8	46.95	Vertical	40	12.85

172.396	9.35	-21.7	31.05	Vertical	43.5	34.15
175.306	9.87	-21.6	31.47	Vertical	43.5	33.63
500.0135	28.58	-12.2	40.78	Vertical	46	17.42
574.8005	23.7	-10.7	34.4	Vertical	46	22.3

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.148	24.1	-19.5	43.6	Vertical	40	15.9
59.973	26.8	-19.9	46.7	Vertical	40	13.2
149.7465	10.5	-22.7	33.2	Vertical	43.5	33
309.748	11.53	-16.8	28.33	Vertical	46	34.47
499.965	27.6	-12.2	39.8	Vertical	46	18.4
576.983	22.77	-10.6	33.37	Vertical	46	23.23

For 802.11n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.245	26.13	-19.4	45.53	Vertical	40	13.87
60.5065	26.61	-20	46.61	Vertical	40	13.39
153.675	10.93	-22.5	33.43	Vertical	43.5	32.57
249.996	15.69	-18.5	34.19	Vertical	46	30.31
499.965	27.51	-12.2	39.71	Vertical	46	18.49
574.752	24.39	-10.7	35.09	Vertical	46	21.61

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.536	25.45	-19.4	44.85	Vertical	40	14.55
60.7005	27.42	-20	47.42	Vertical	40	12.58
152.0745	11.04	-22.6	33.64	Vertical	43.5	32.46
175.209	9.92	-21.6	31.52	Vertical	43.5	33.58
500.0135	28.6	-12.2	40.8	Vertical	46	17.4
574.7035	23.85	-10.7	34.55	Vertical	46	22.15

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.245	26.15	-19.4	45.55	Vertical	40	13.85
60.361	27.48	-20	47.48	Vertical	40	12.52
150.377	10.71	-22.7	33.41	Vertical	43.5	32.79
296.75	11.43	-17.2	28.63	Vertical	46	34.57
500.0135	28.53	-12.2	40.73	Vertical	46	17.47
574.752	24.36	-10.7	35.06	Vertical	46	21.64

For 802.11n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.5845	26.57	-19.4	45.97	Vertical	40	13.43
63.756	27.95	-20.8	48.75	Vertical	40	12.05
156.0515	10.04	-22.4	32.44	Vertical	43.5	33.46
249.996	15.67	-18.5	34.17	Vertical	46	30.33
499.965	27.6	-12.2	39.8	Vertical	46	18.4
574.752	24.39	-10.7	35.09	Vertical	46	21.61

For 802.11n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.536	25.45	-19.4	44.85	Vertical	40	14.55
60.361	27.61	-20	47.61	Vertical	40	12.39
154.839	10.36	-22.5	32.86	Vertical	43.5	33.14
249.996	15.66	-18.5	34.16	Vertical	46	30.34
500.0135	28.64	-12.2	40.84	Vertical	46	17.36
574.9945	23.08	-10.7	33.78	Vertical	46	22.92

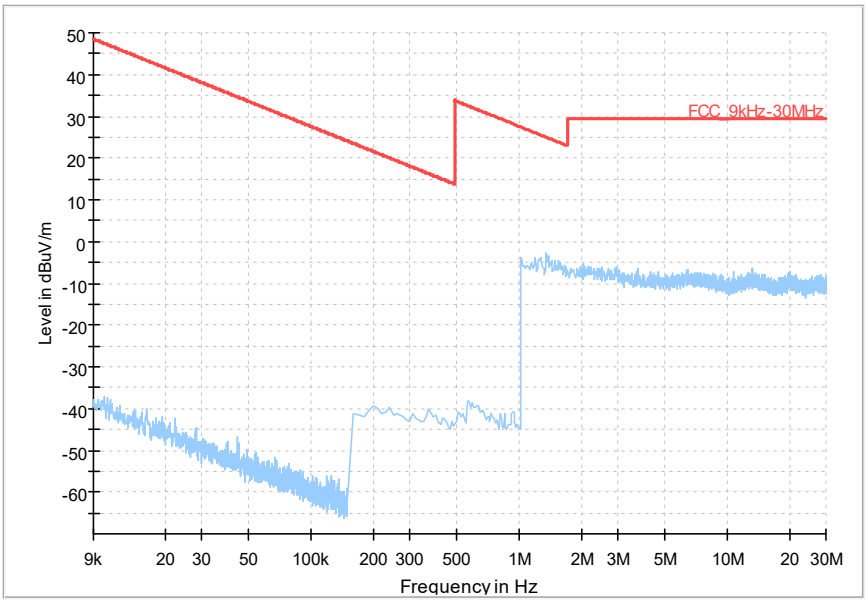
For 802.11n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
37.566	25.43	-19.6	45.03	Vertical	40	14.57
65.405	27.52	-21.2	48.72	Vertical	40	12.48
150.7165	10.75	-22.6	33.35	Vertical	43.5	32.75
298.7385	11.73	-17.1	28.83	Vertical	46	34.27
500.0135	28.62	-12.2	40.82	Vertical	46	17.38
574.752	24.38	-10.7	35.08	Vertical	46	21.62

For 802.11n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.1965	25.23	-19.5	44.73	Vertical	40	14.77
60.7005	27.66	-20	47.66	Vertical	40	12.34
149.601	10.69	-22.7	33.39	Vertical	43.5	32.81
174.724	10.73	-21.6	32.33	Vertical	43.5	32.77
500.0135	28.53	-12.2	40.73	Vertical	46	17.47
574.9945	23.07	-10.7	33.77	Vertical	46	22.93

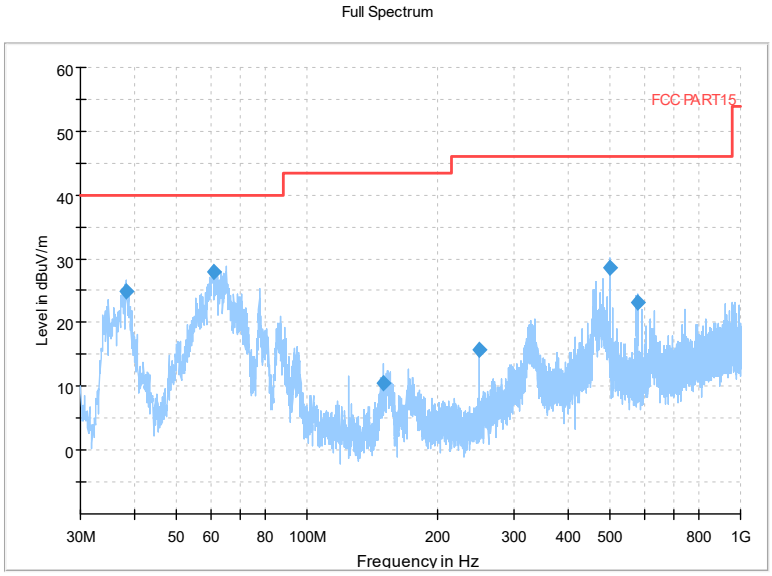
Full Spectrum



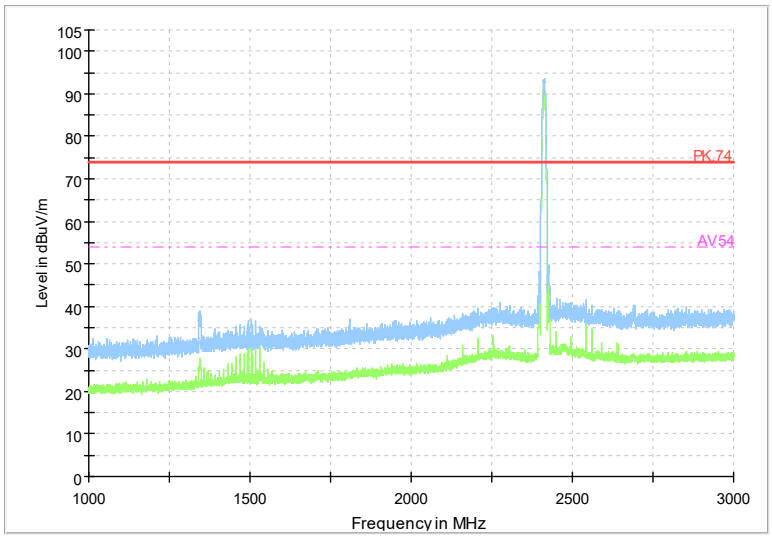
Frequency Range: 9kHz -30MHz
Detector: QP mode

Note：The relevant tests have been performed in order to verify in which mode would have the worstfeatures, the result show above is the worst case.

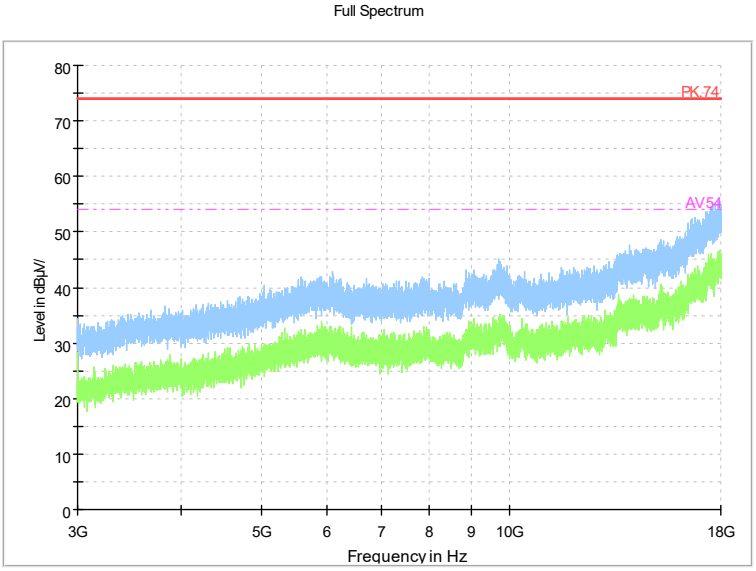
Carrier frequency (MHz): 2412
Channel No.:1



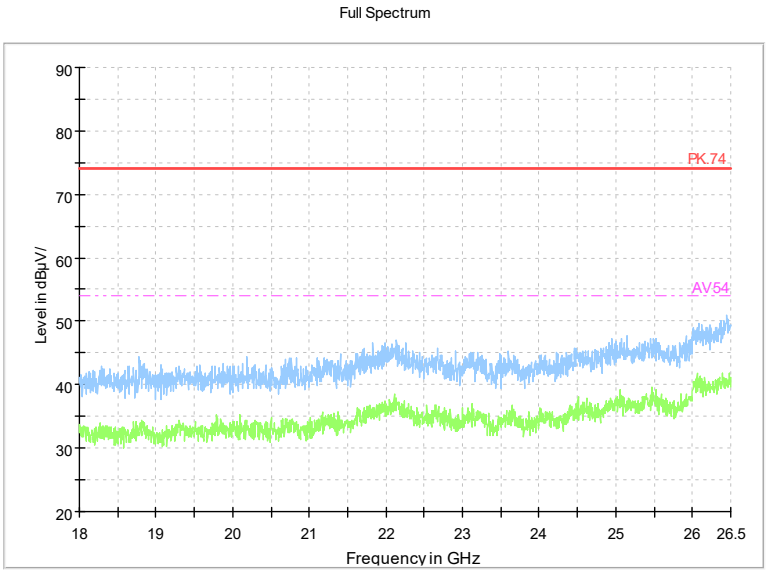
Frequency Range30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



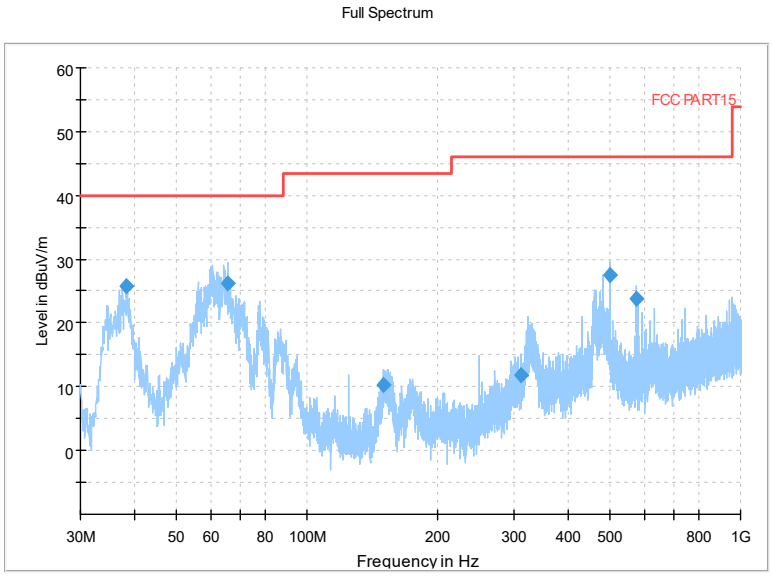
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



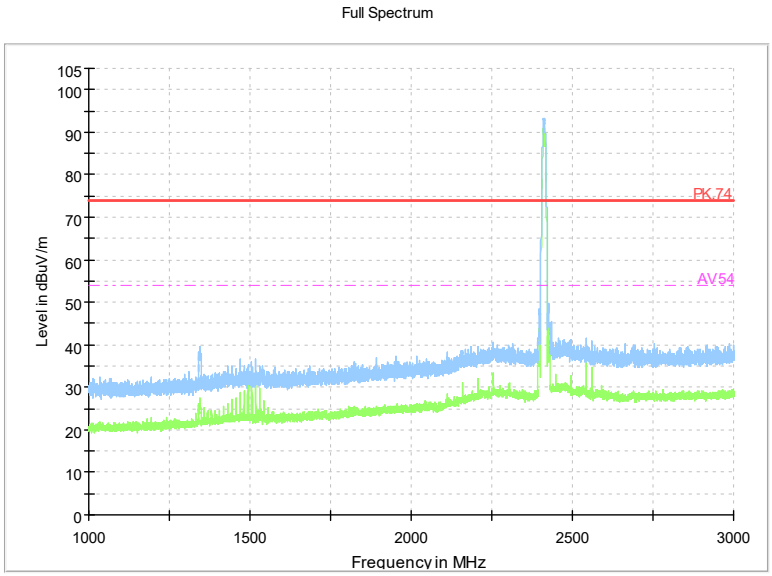
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



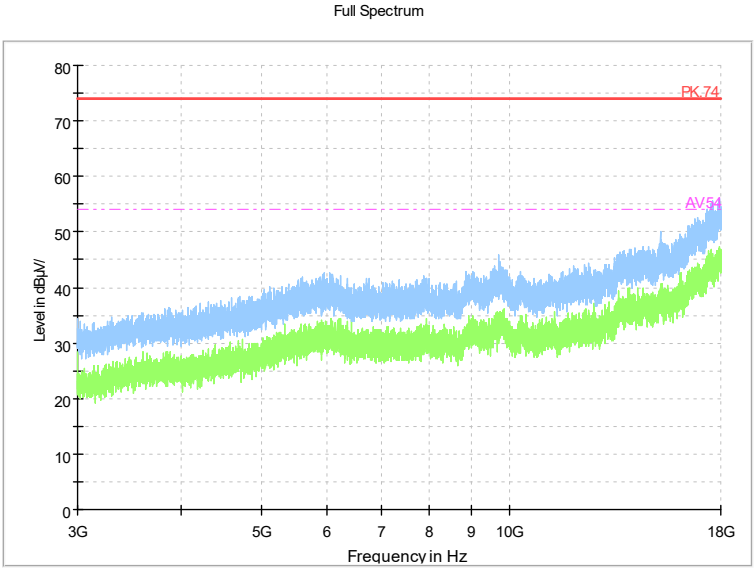
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



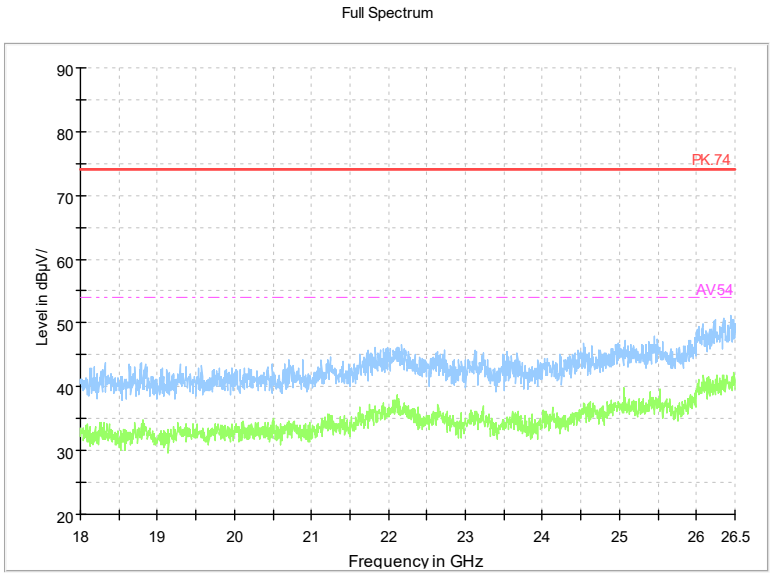
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



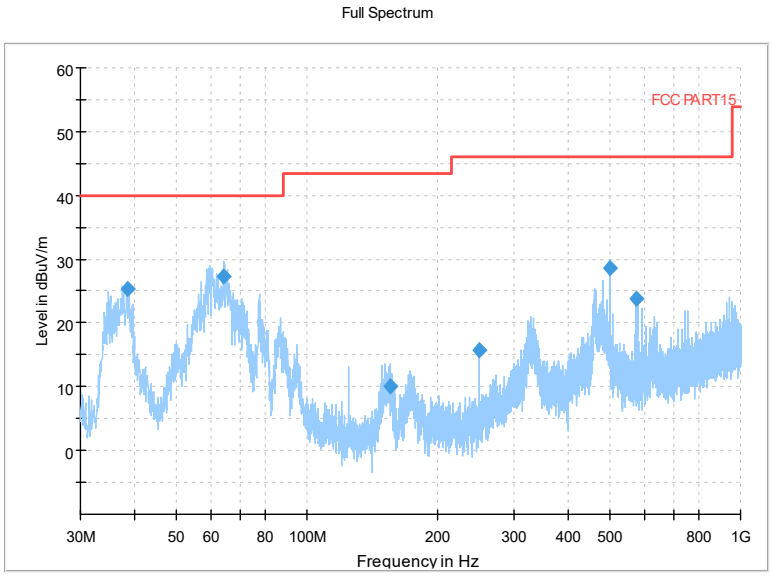
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



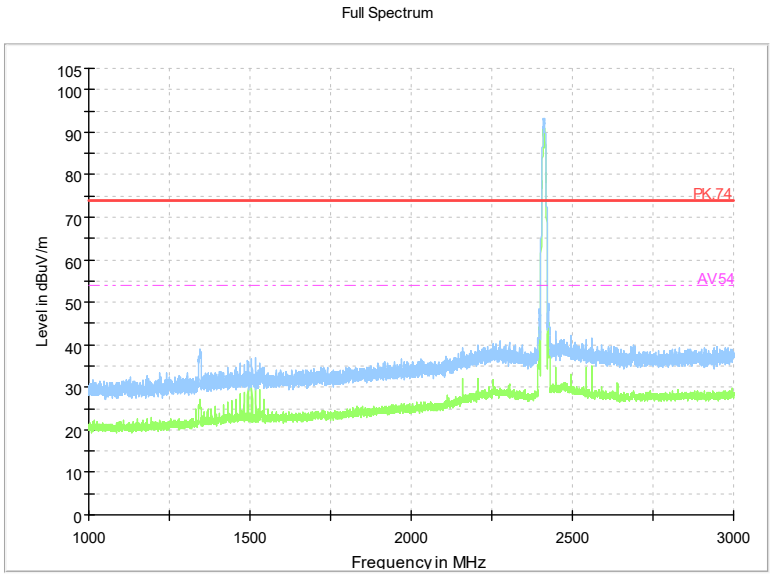
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



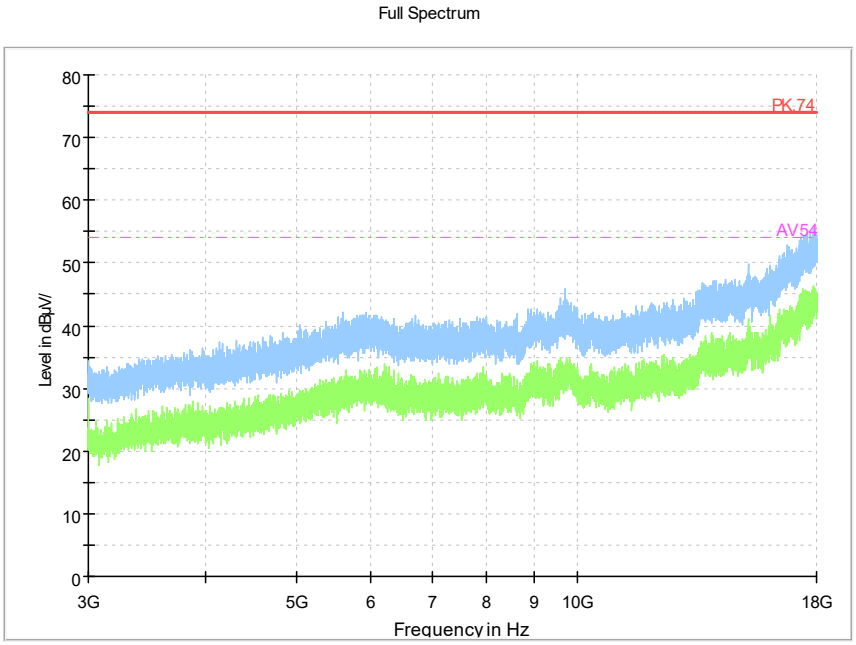
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



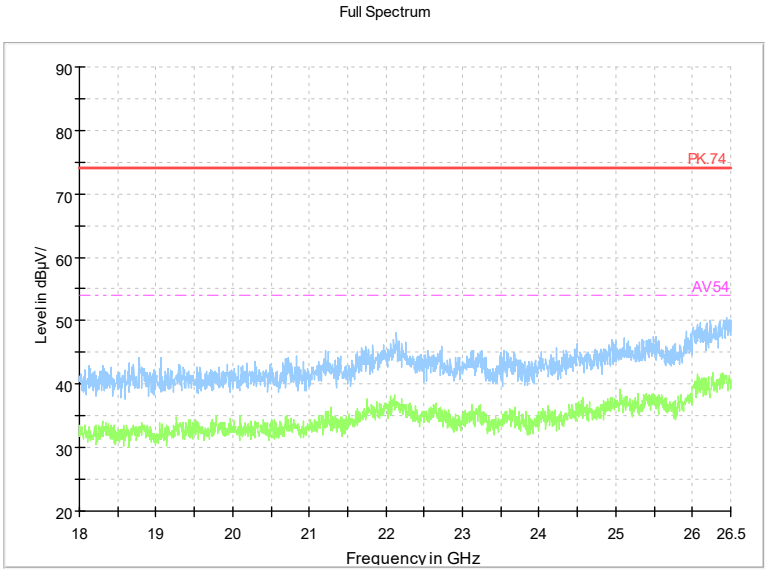
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



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



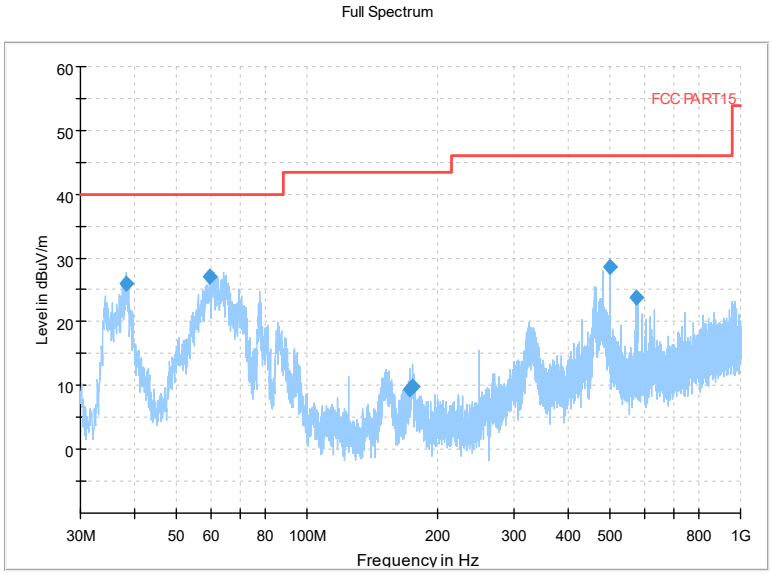
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



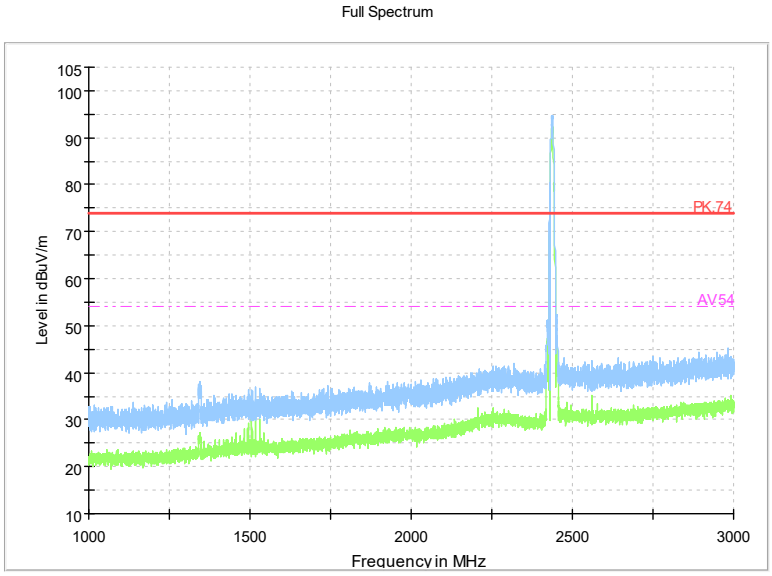
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2437

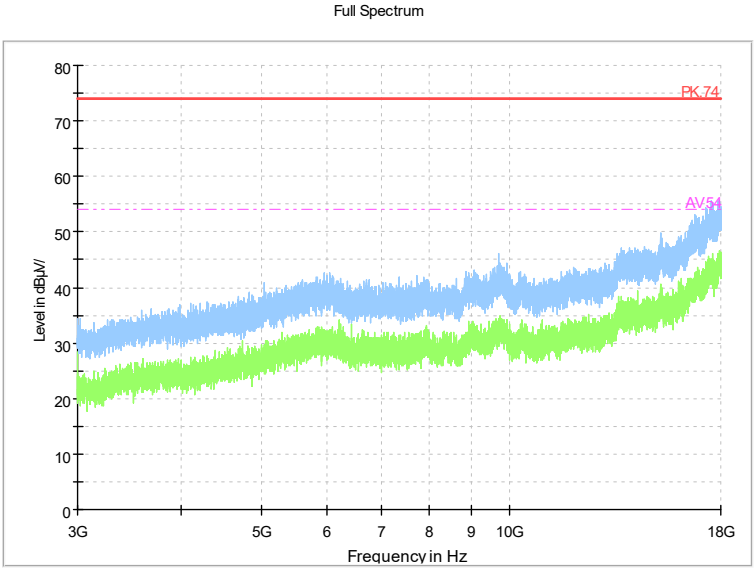
Channel No.:6



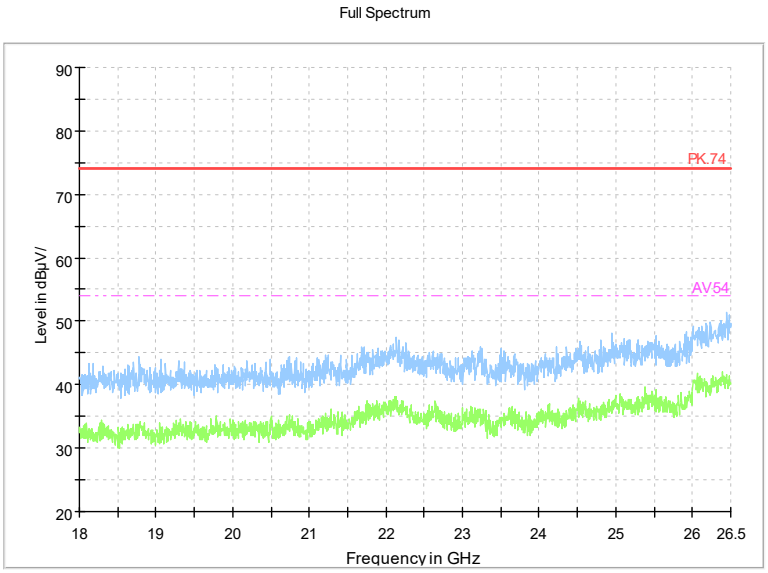
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



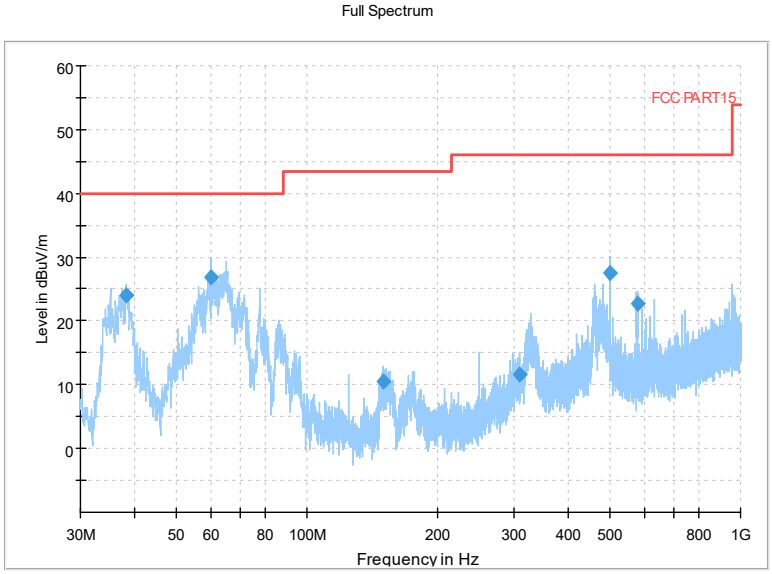
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



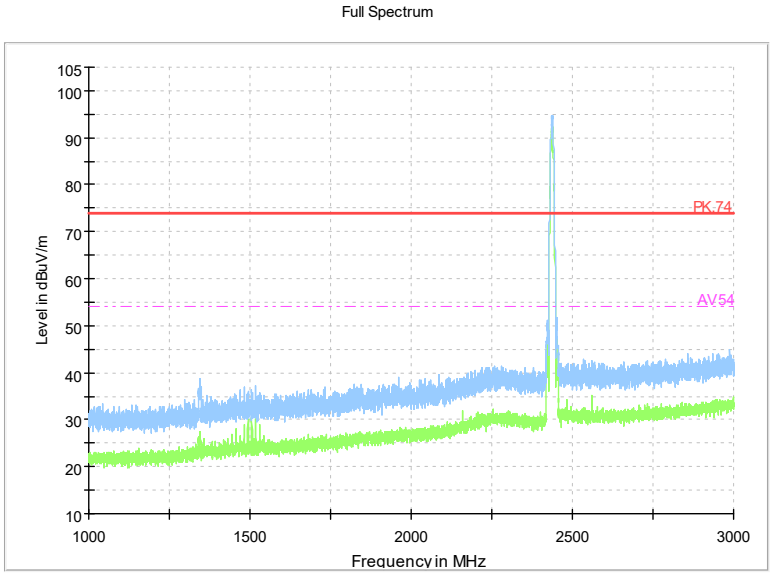
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



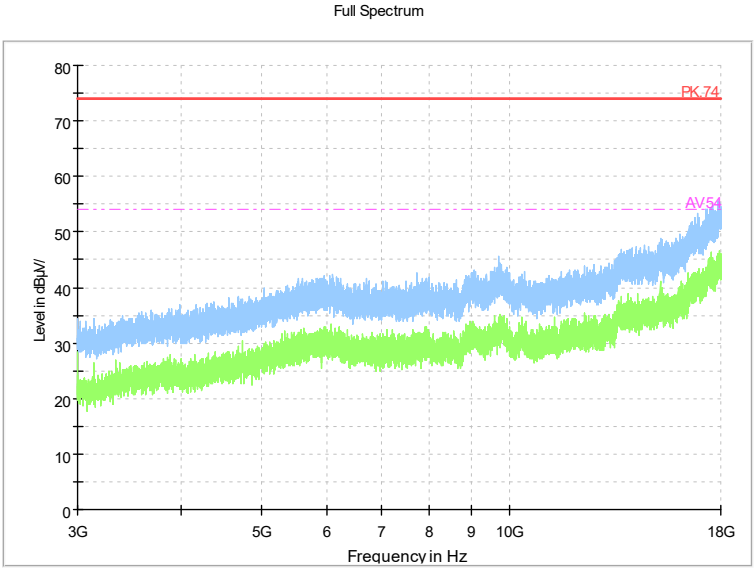
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



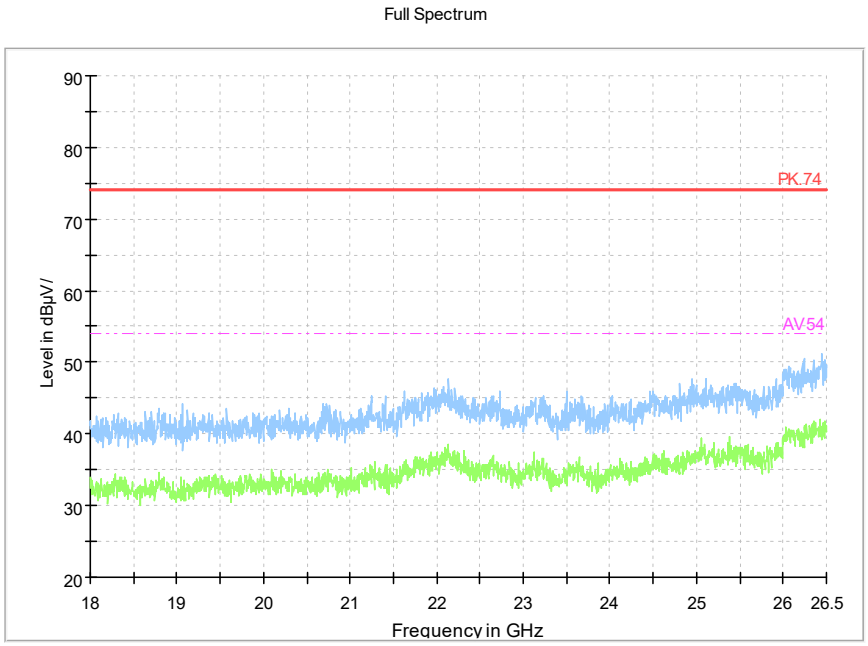
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



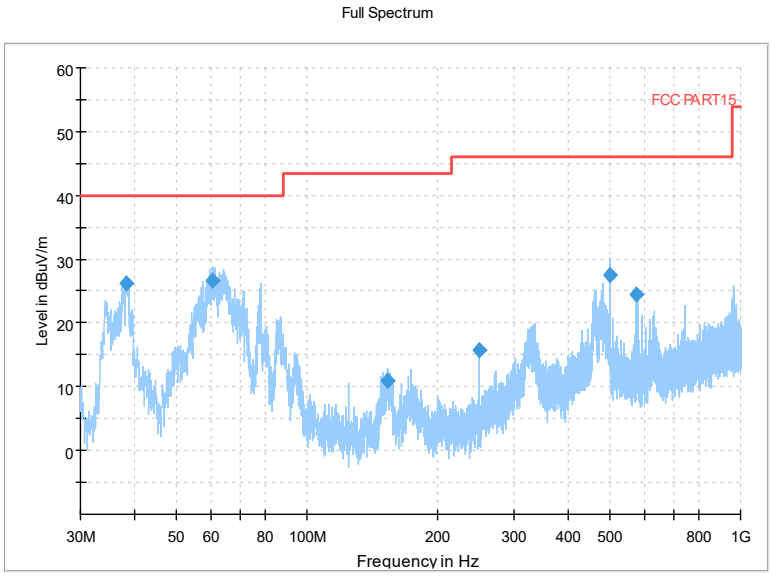
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



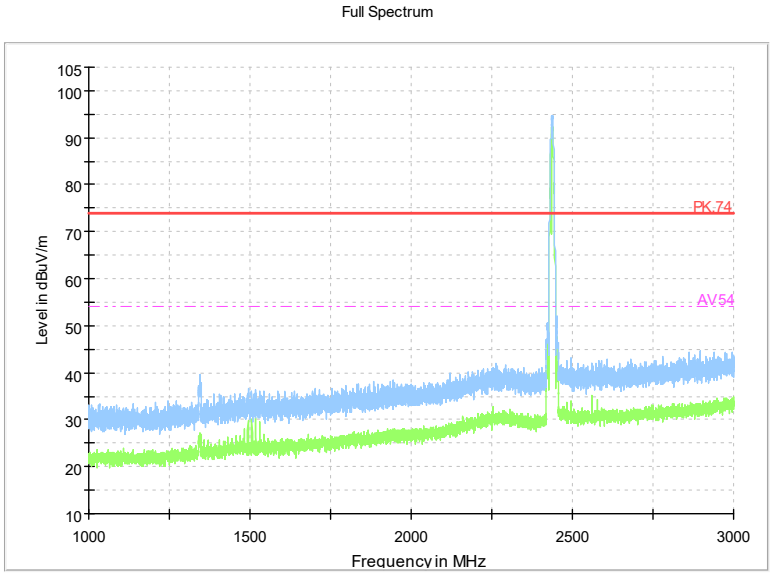
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



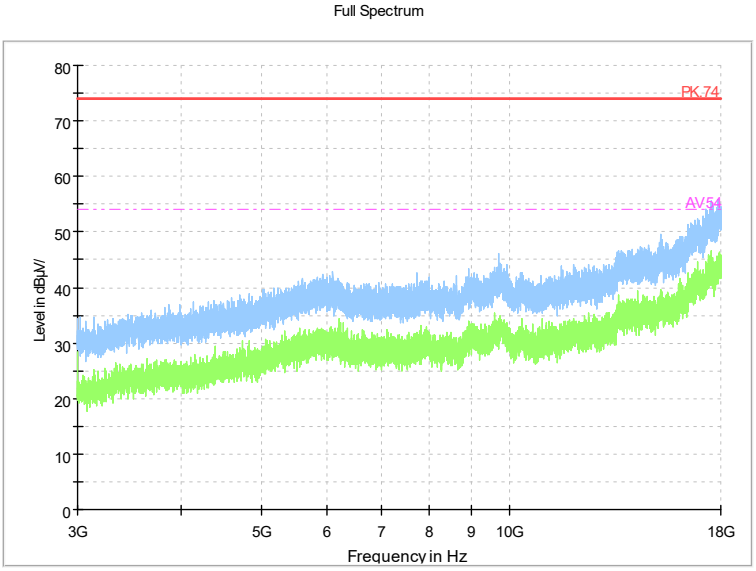
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



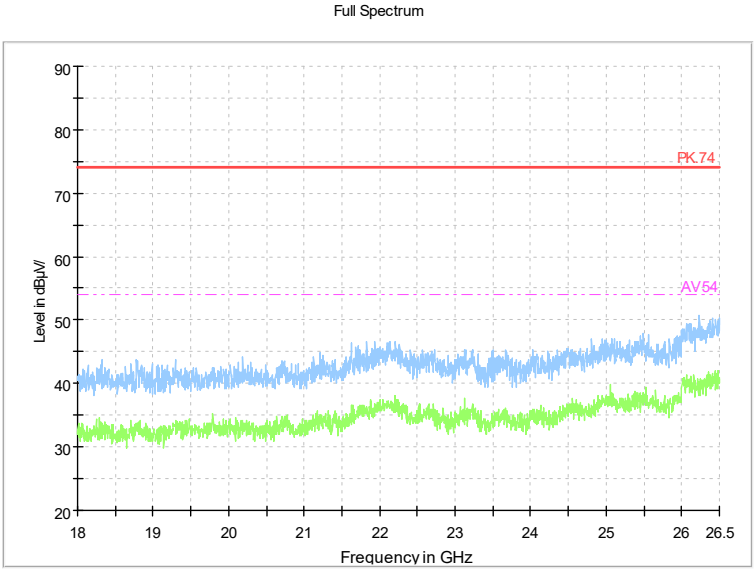
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



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

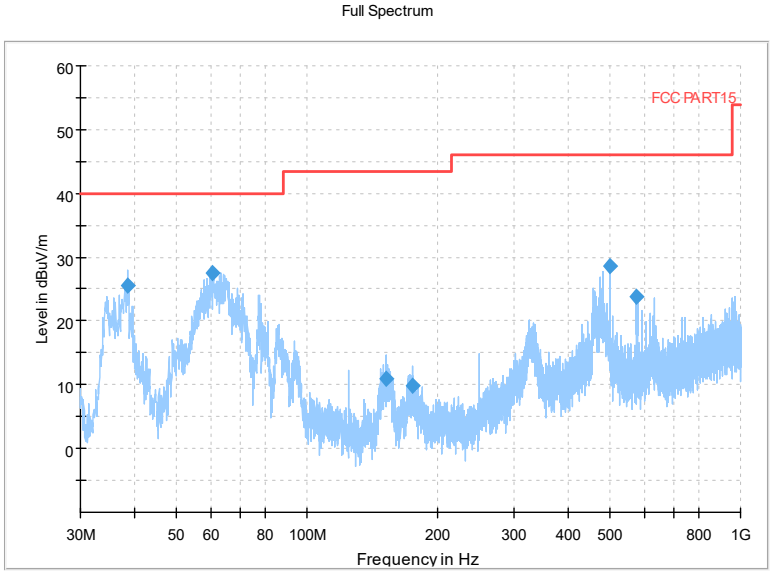


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

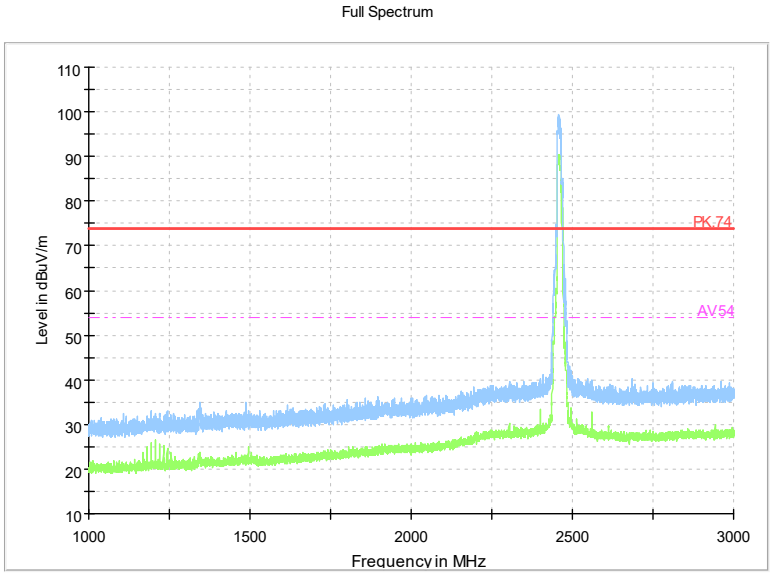


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

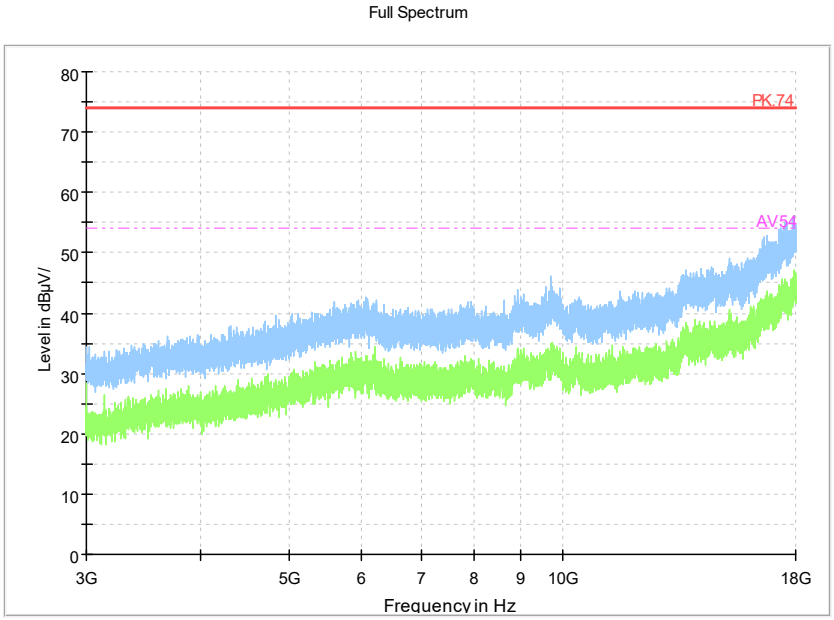
Carrier frequency (MHz): 2462
Channel No.:11



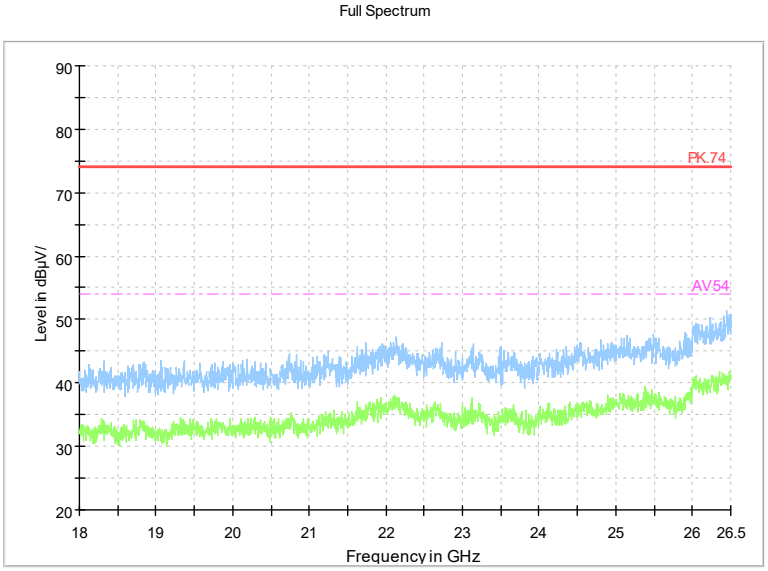
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



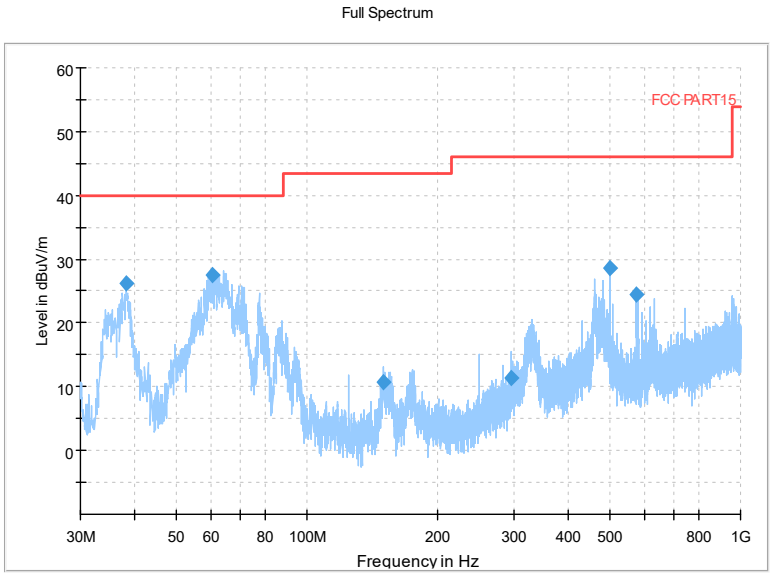
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



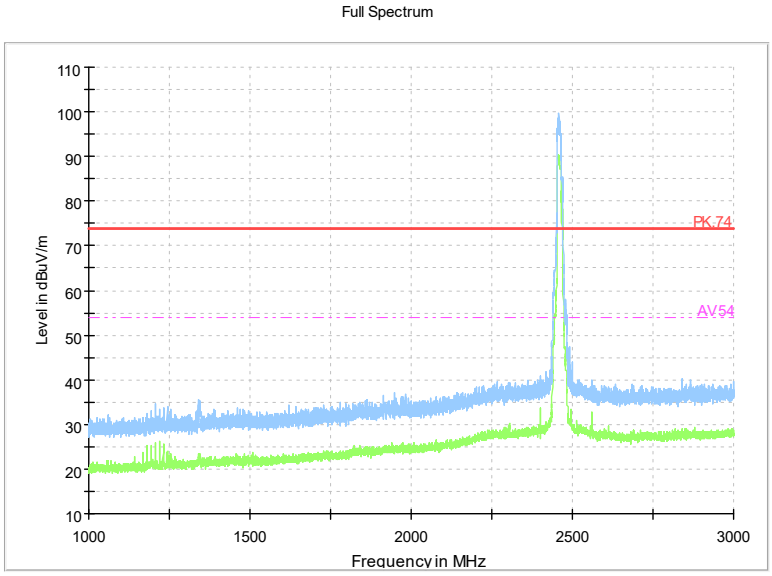
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



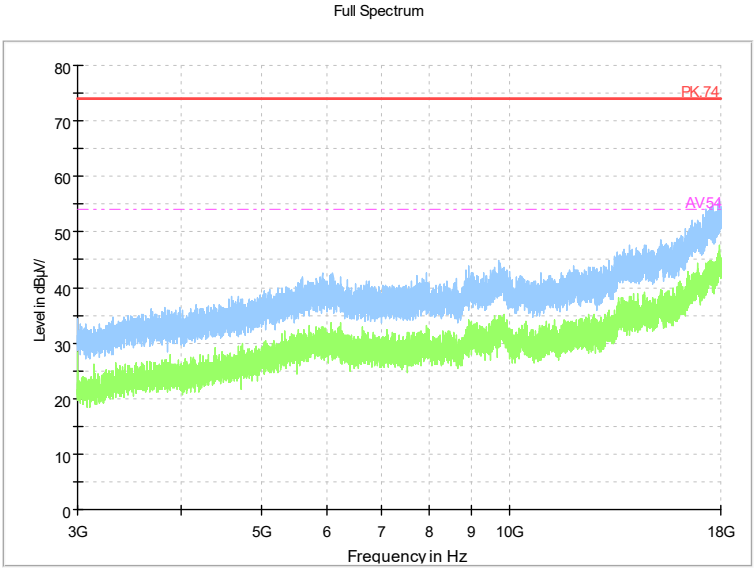
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



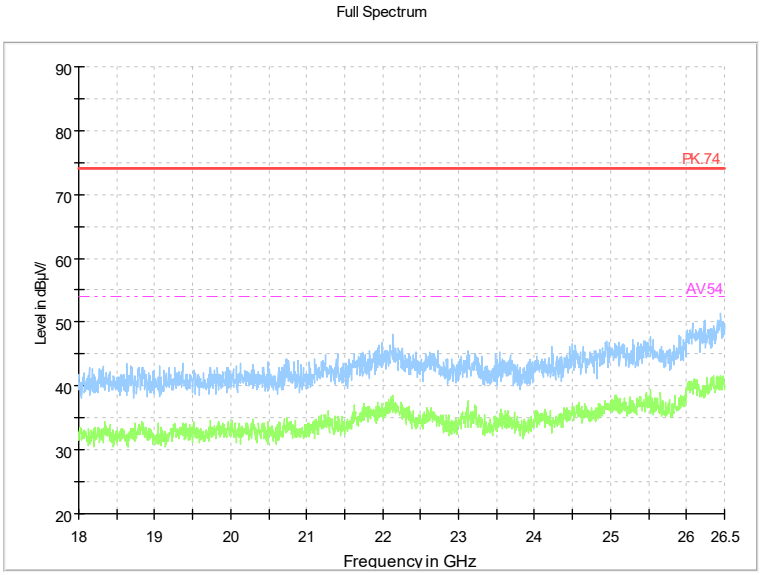
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



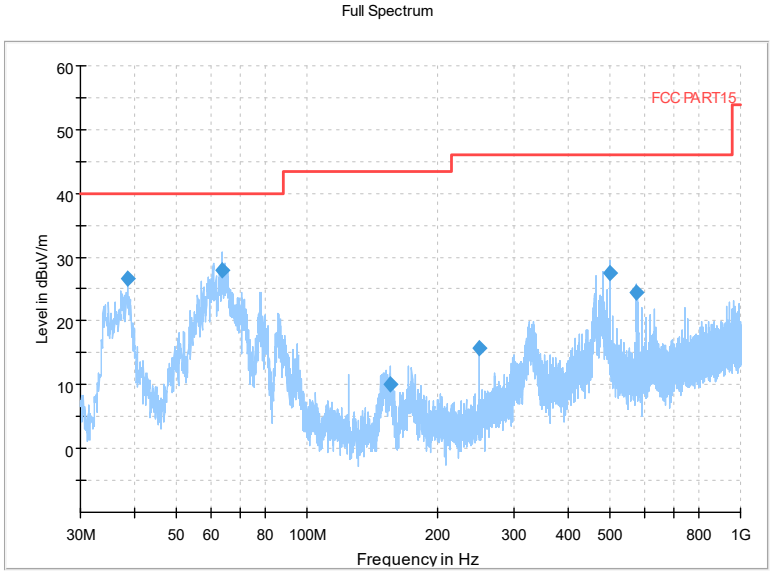
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



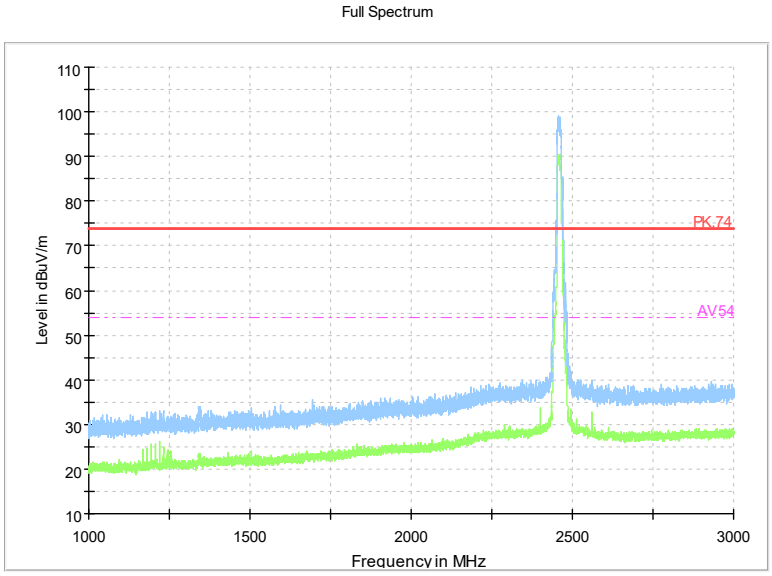
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



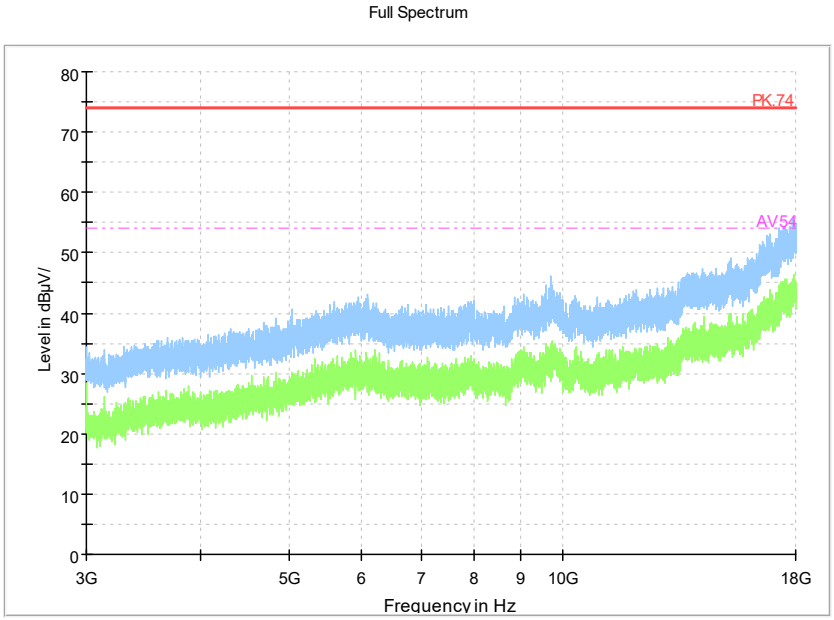
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



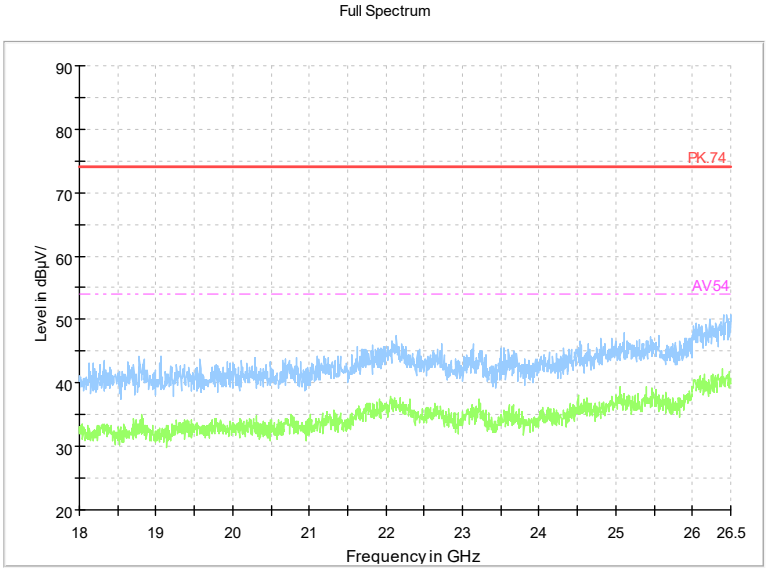
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



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



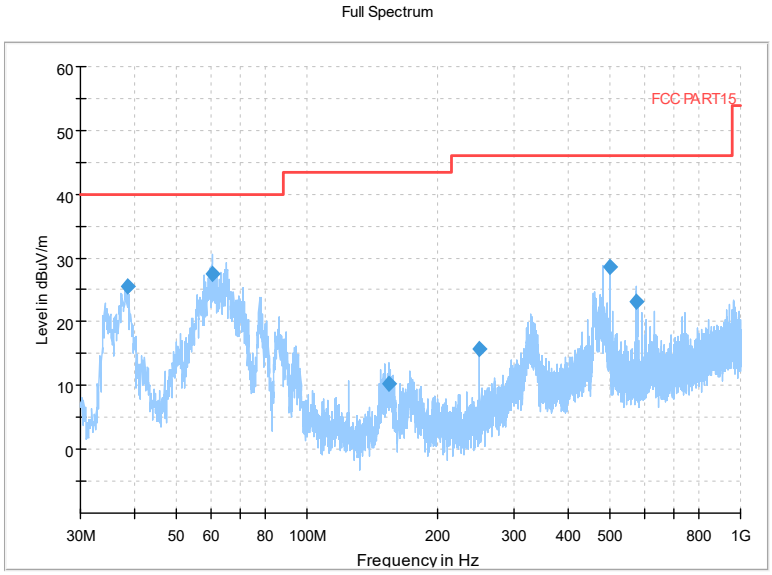
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



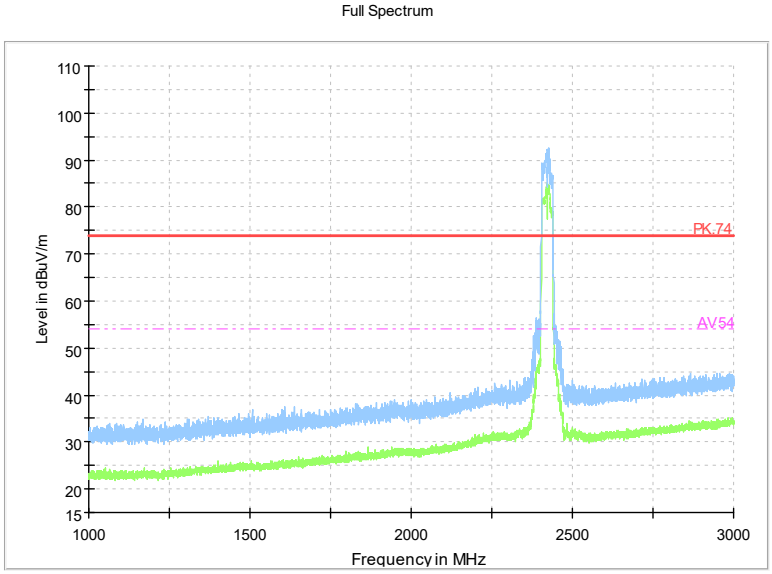
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2422

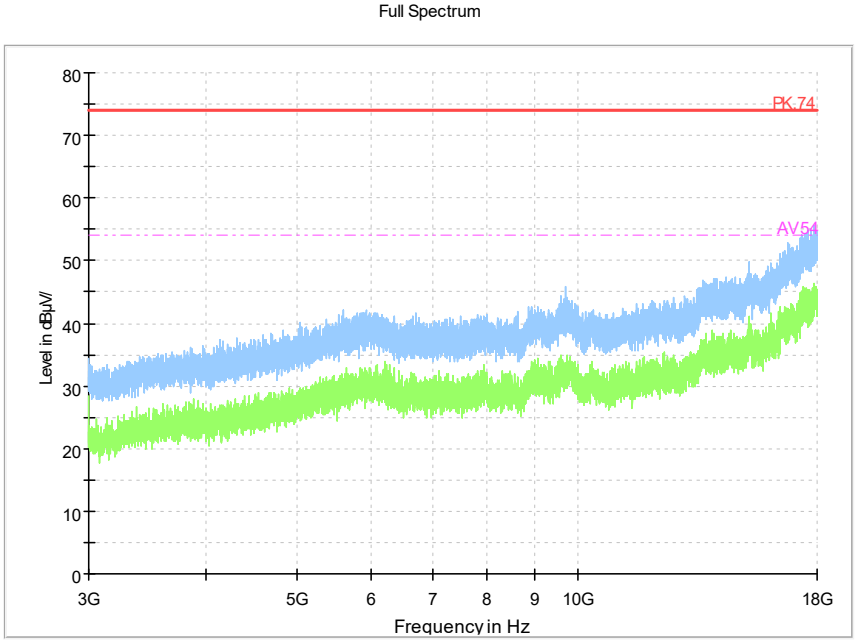
Channel No.:3



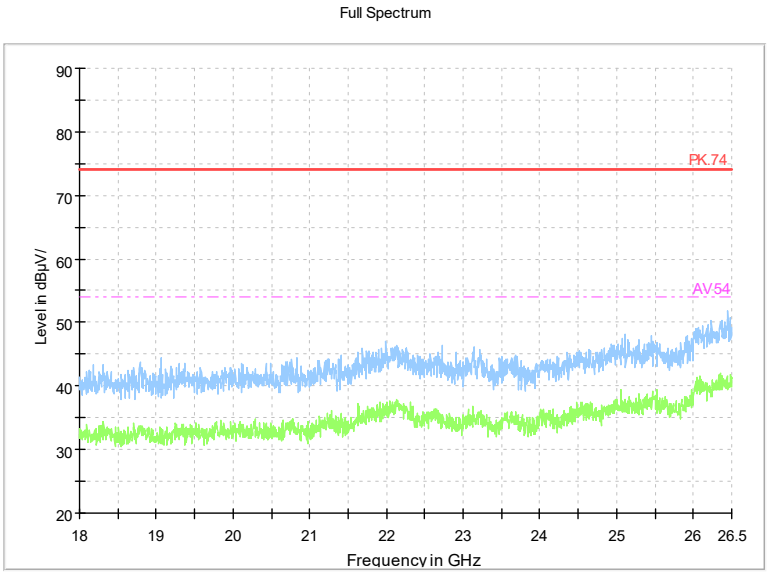
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



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



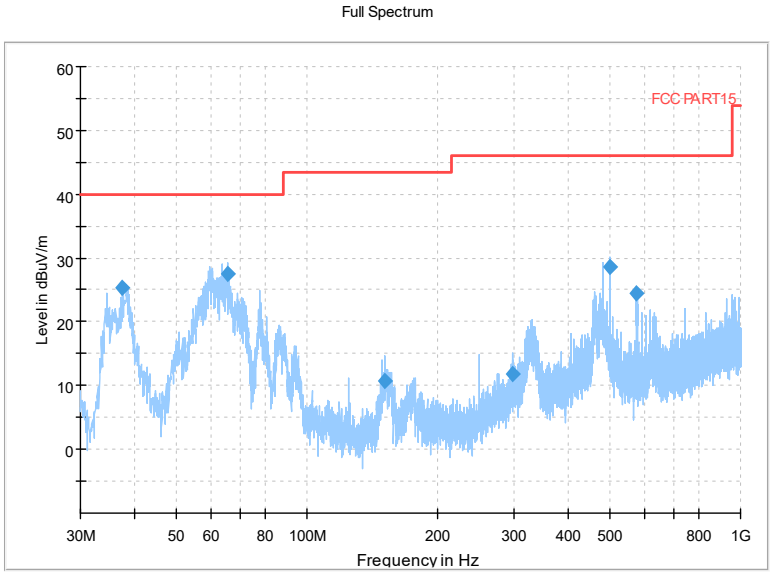
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



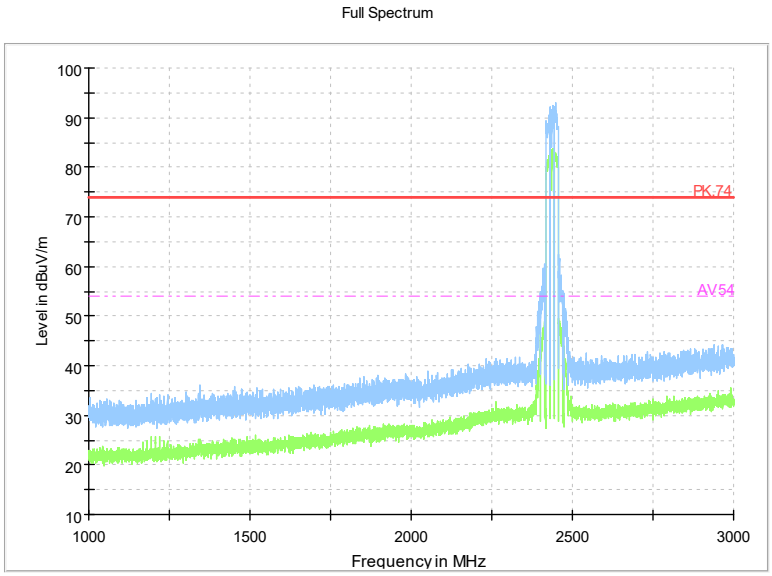
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2437

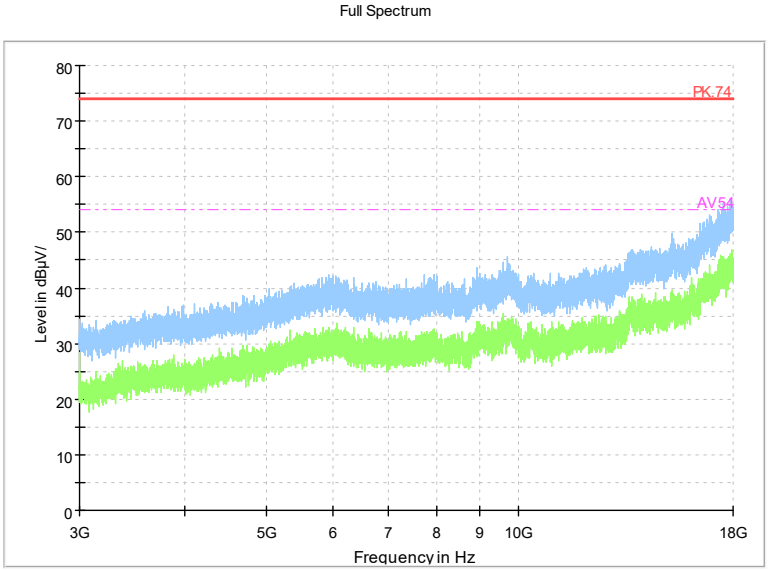
Channel No.:6



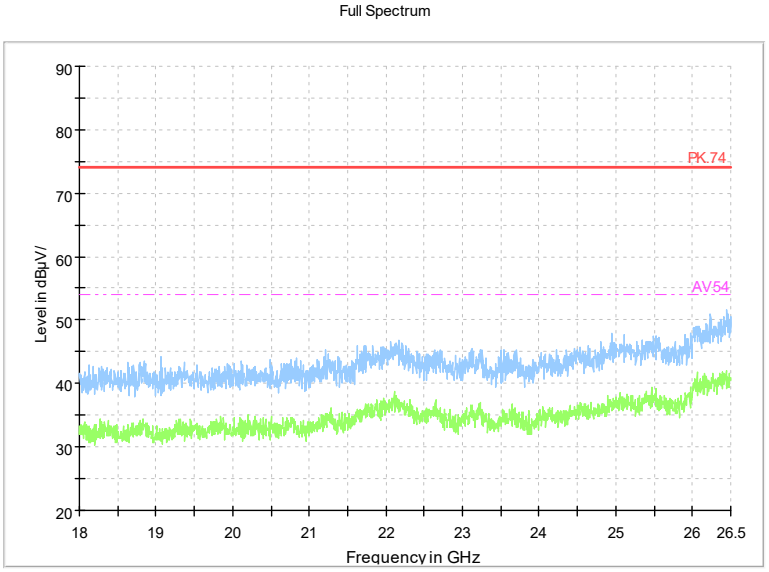
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



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

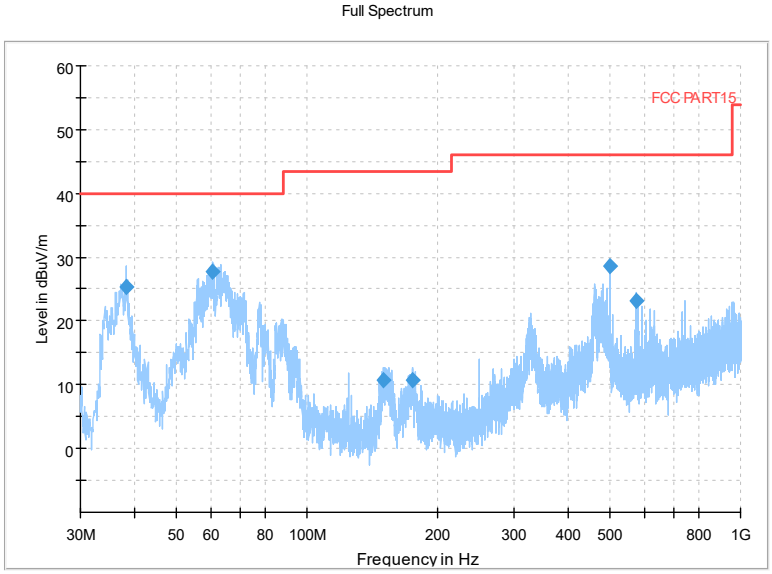


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

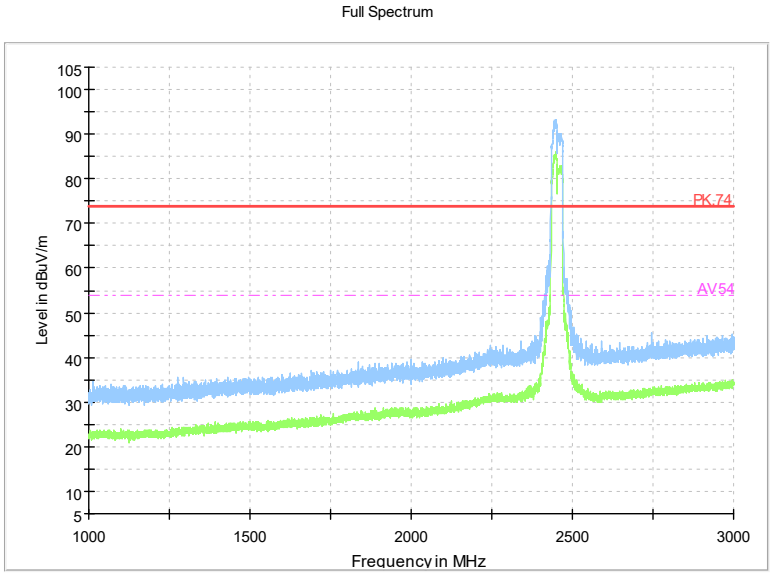


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

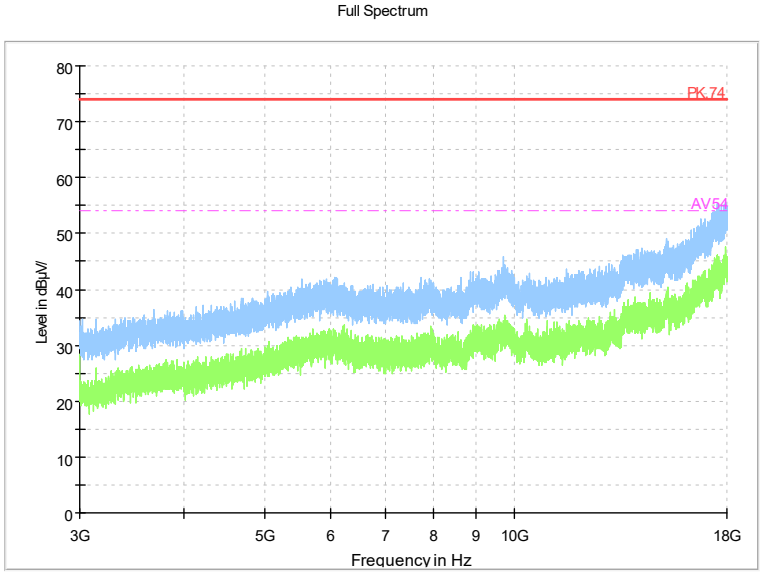
Carrier frequency (MHz): 2452
Channel No.:9



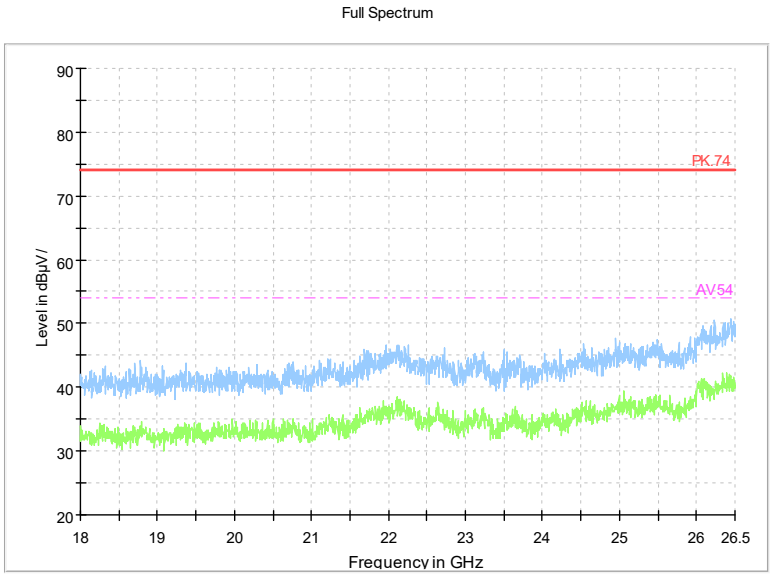
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



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



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

---End of Test Report---