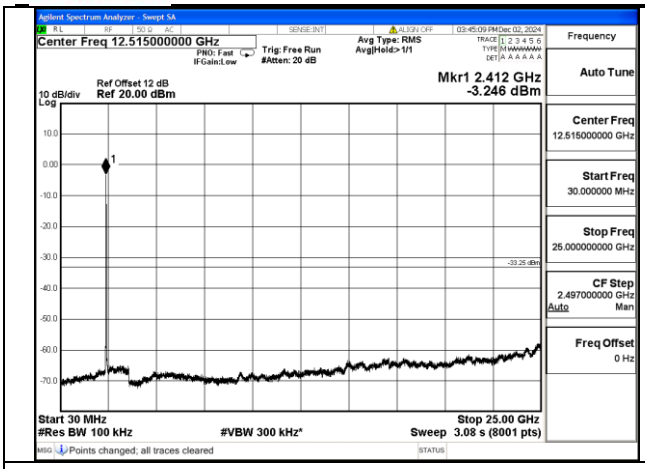
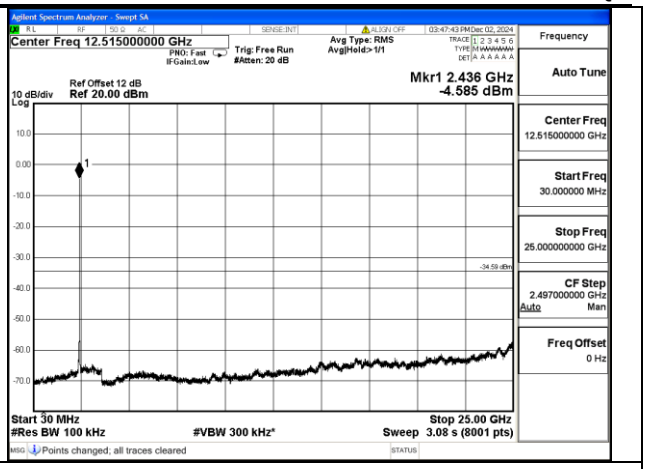
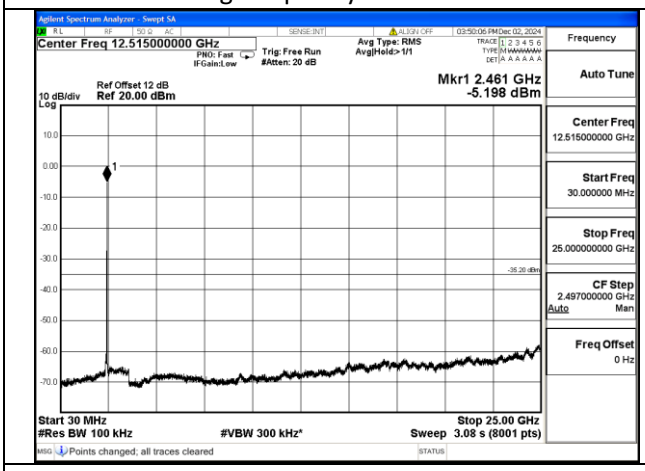


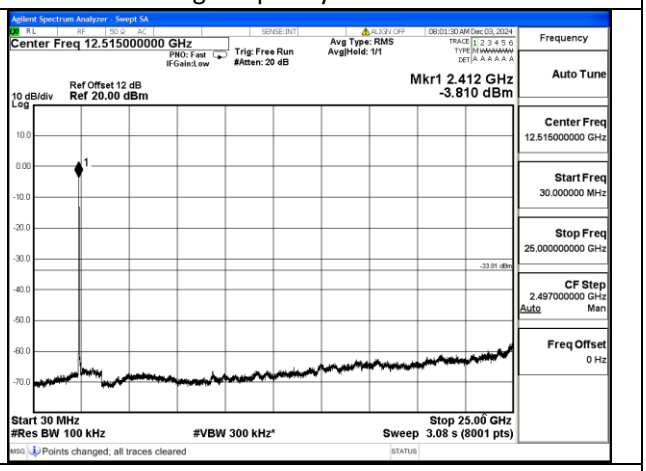
Mode:802.11g Frequency:2412MHz Ant:Chain0



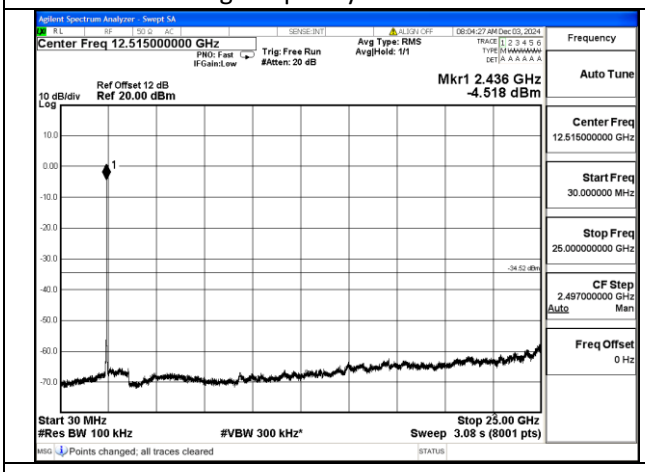
Mode:802.11g Frequency:2437MHz Ant:Chain0



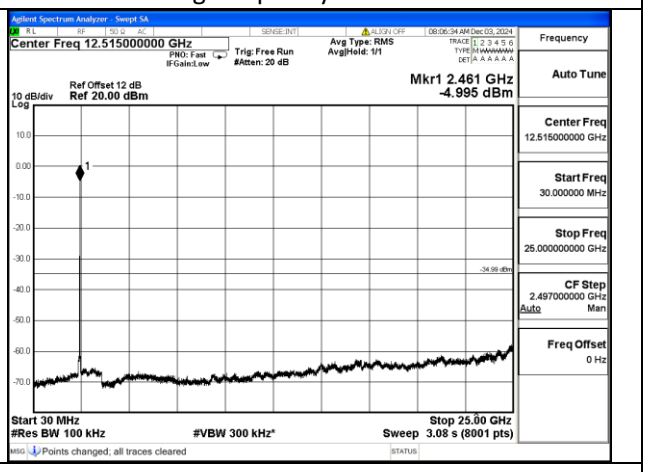
Mode:802.11g Frequency:2462MHz Ant:Chain0



Mode:802.11g Frequency:2412MHz Ant:Chain1

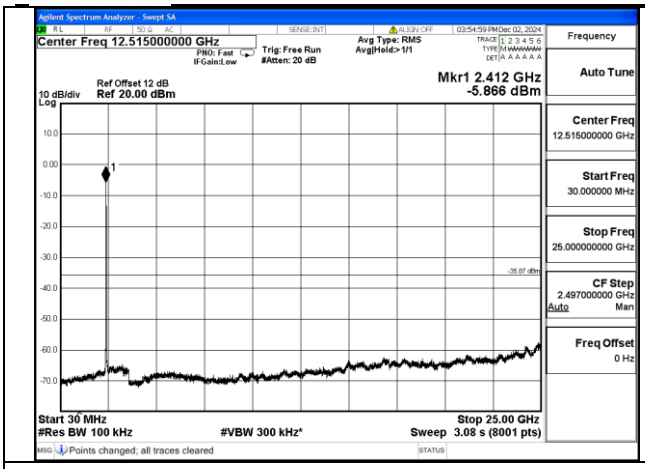


Mode:802.11g Frequency:2437MHz Ant:Chain1

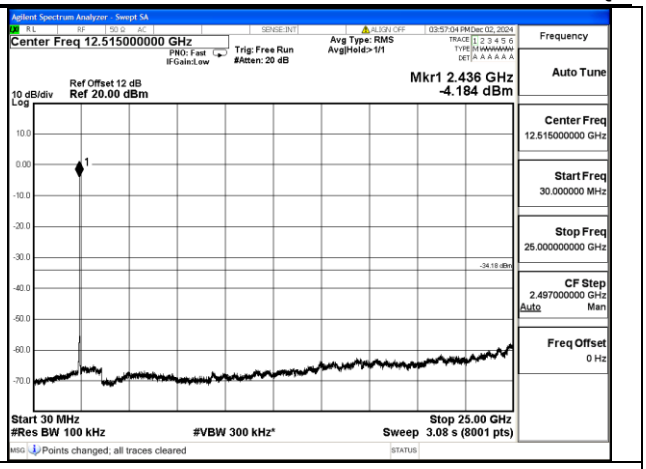


Mode:802.11g Frequency:2462MHz Ant:Chain1

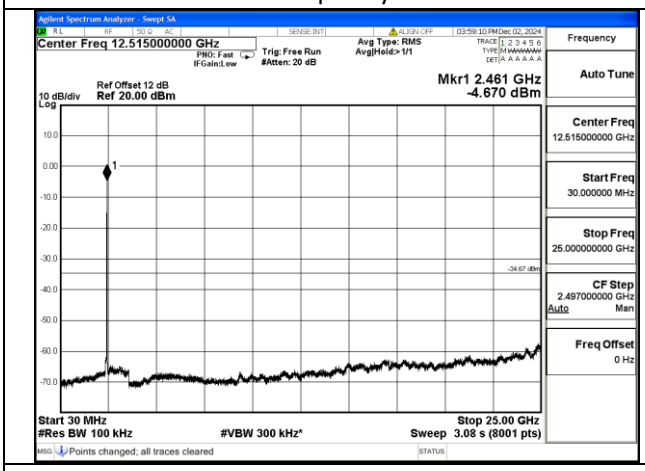
Test Mode: 802.11n HT20



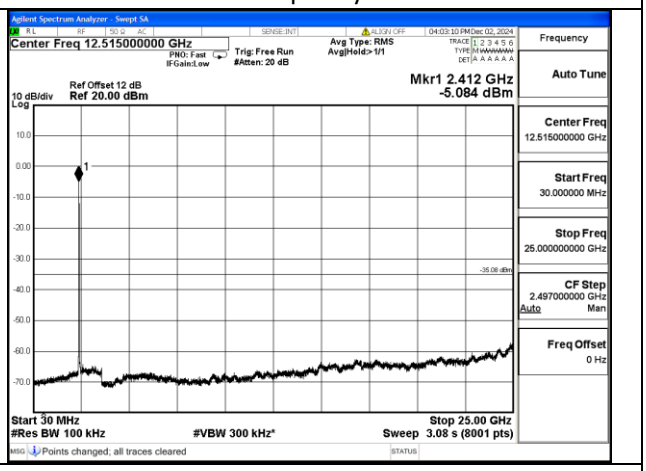
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



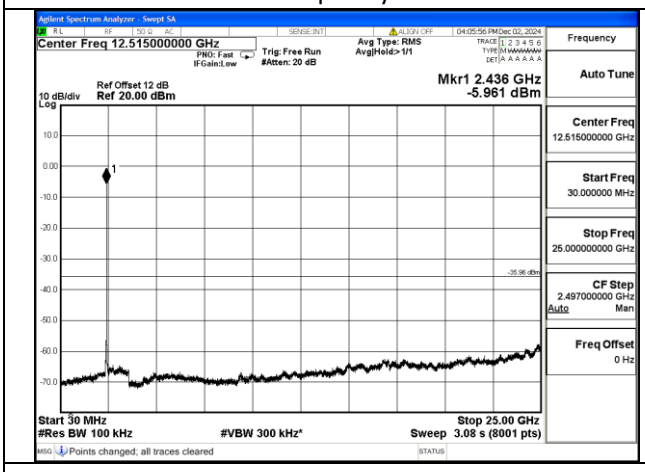
Mode:802.11n HT20 Frequency:2437MHz Ant:Chain0



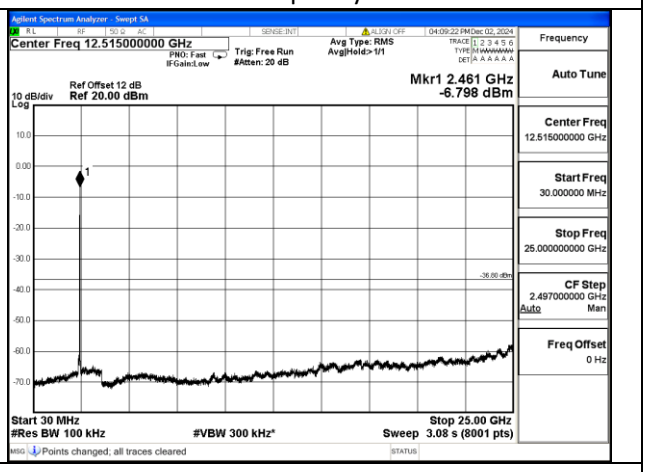
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0



Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1

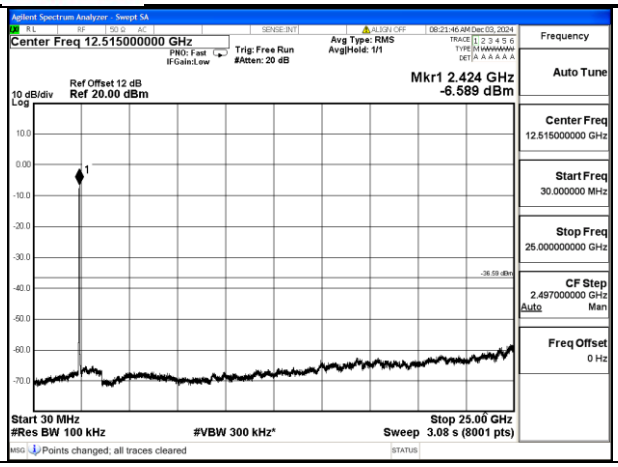


Mode:802.11n HT20 Frequency:2437MHz Ant:Chain1

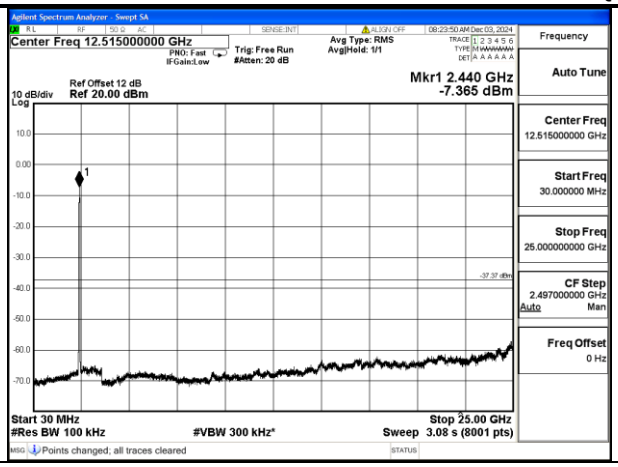


Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

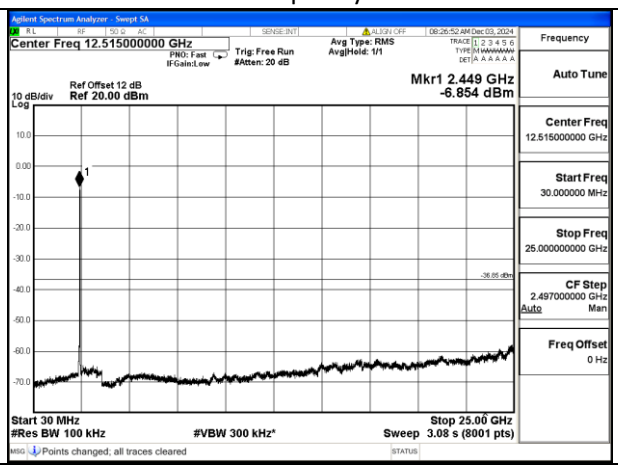
Test Mode: 802.11n HT40



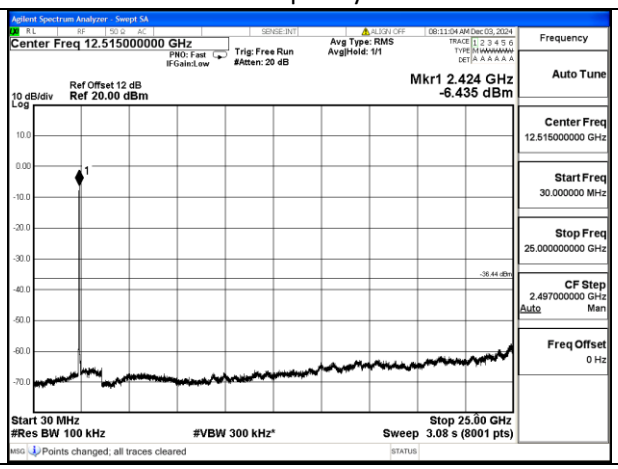
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



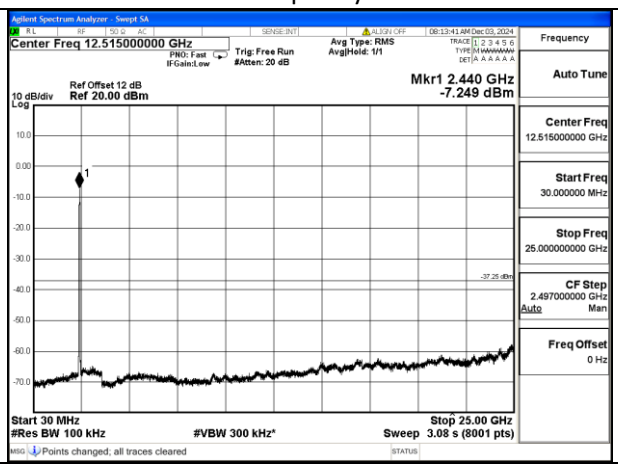
Mode:802.11n HT40 Frequency:2437MHz Ant:Chain0



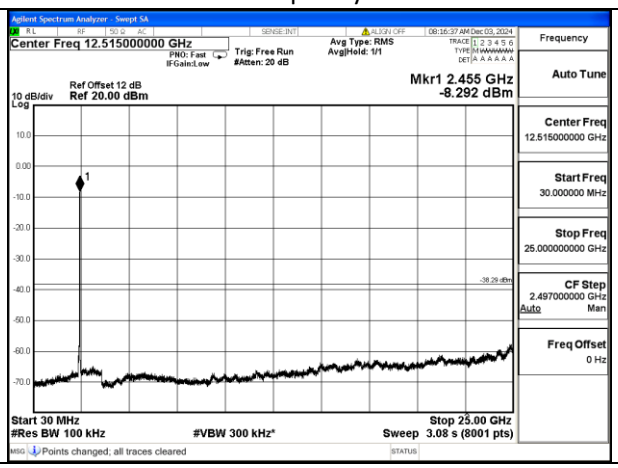
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0



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



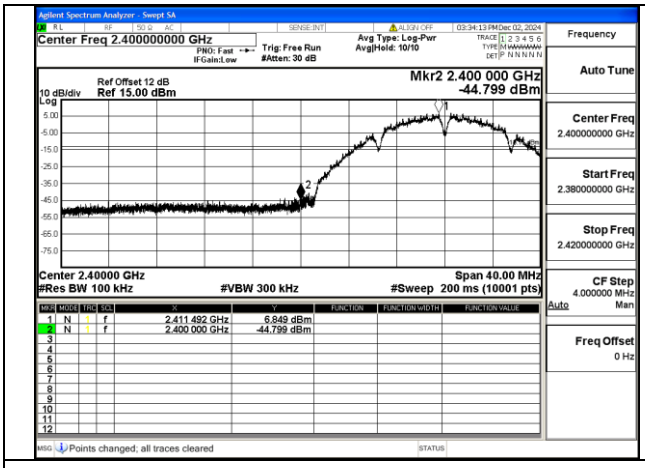
Mode:802.11n HT40 Frequency:2437MHz Ant:Chain1



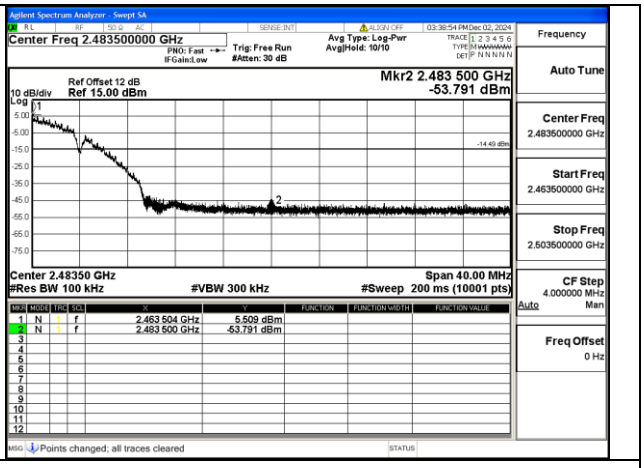
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

Band edge measurement

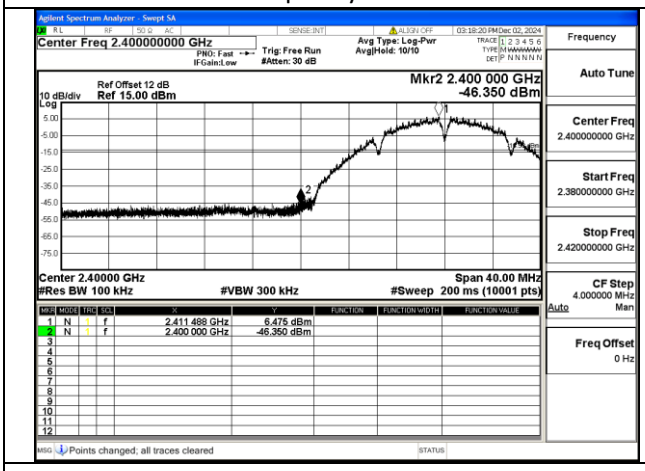
Test Mode: 802.11b



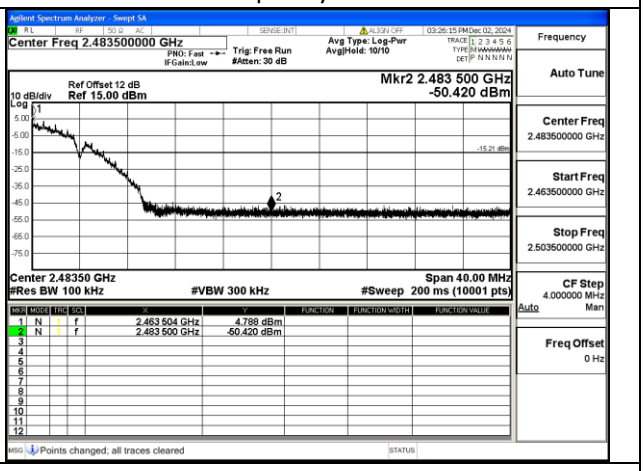
Mode:802.11b Frequency:2412MHz Ant:Chain0



Mode:802.11b Frequency:2462MHz Ant:Chain0

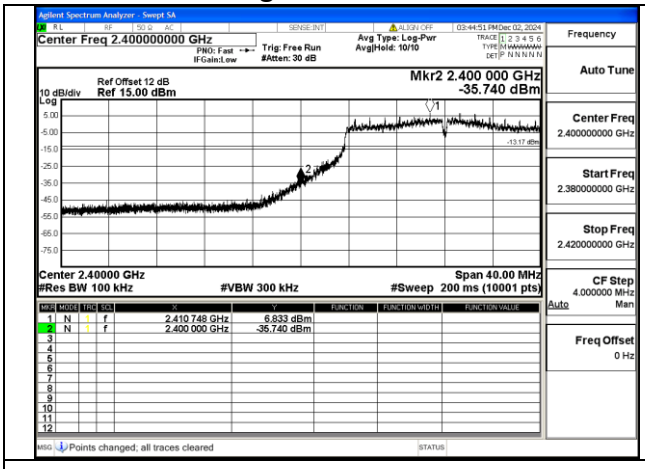


Mode:802.11b Frequency:2412MHz Ant:Chain1

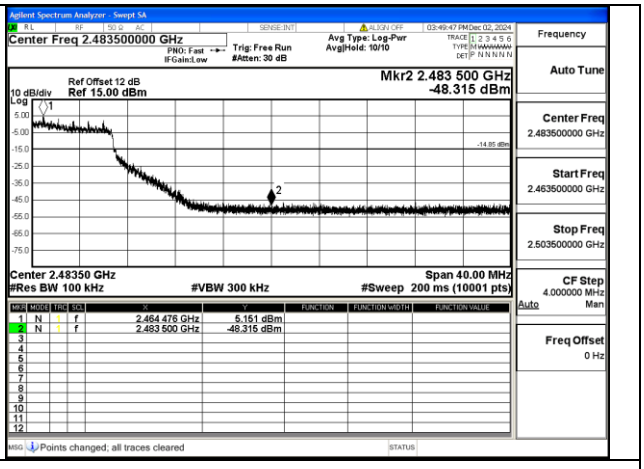


Mode:802.11b Frequency:2462MHz Ant:Chain1

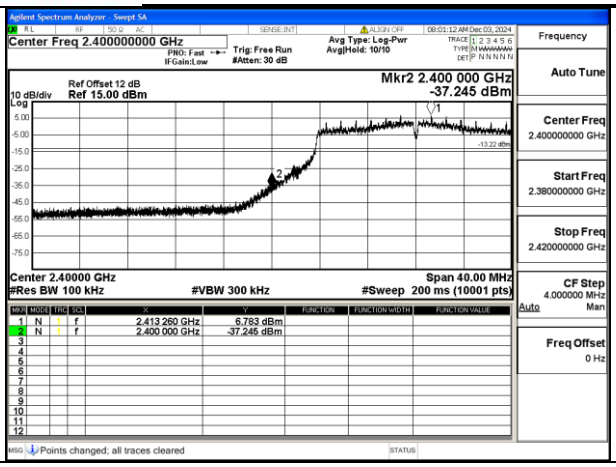
Test Mode: 802.11g



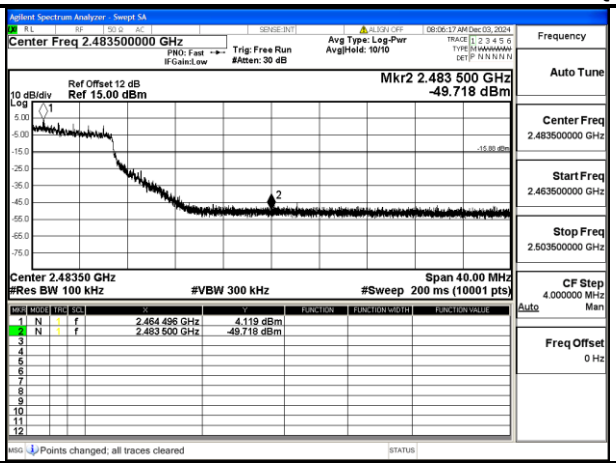
Mode:802.11g Frequency:2412MHz Ant:Chain0



Mode:802.11g Frequency:2462MHz Ant:Chain0

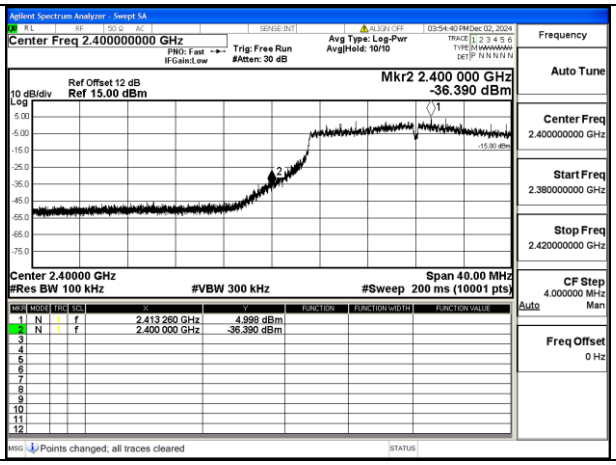


Mode:802.11g Frequency:2412MHz Ant:Chain1

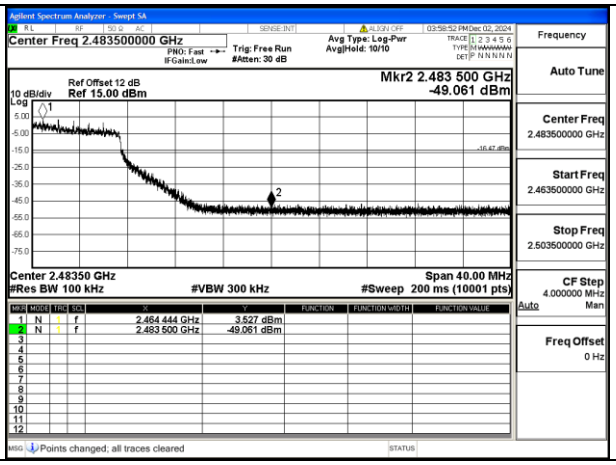


Mode:802.11g Frequency:2462MHz Ant:Chain1

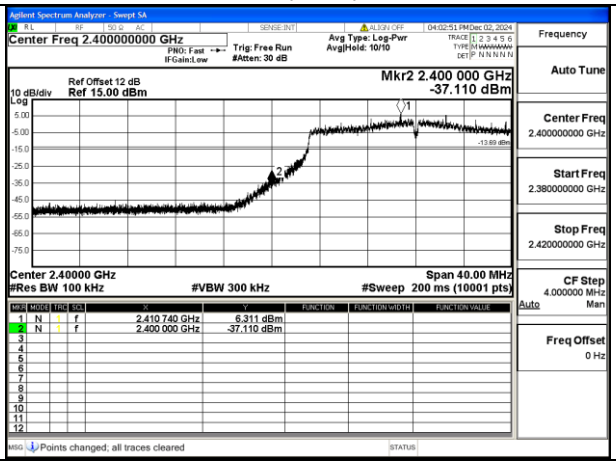
Test Mode: 802.11n HT20



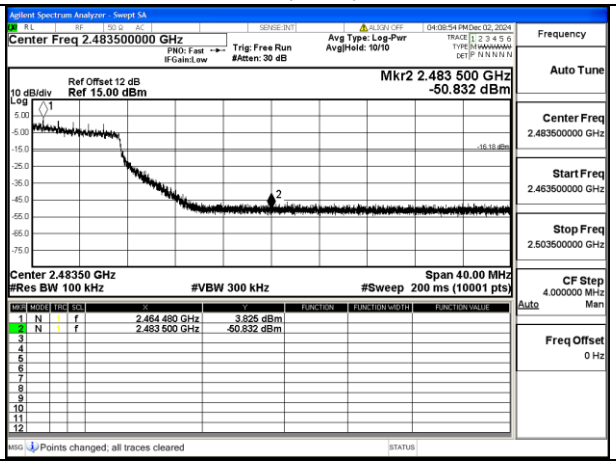
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

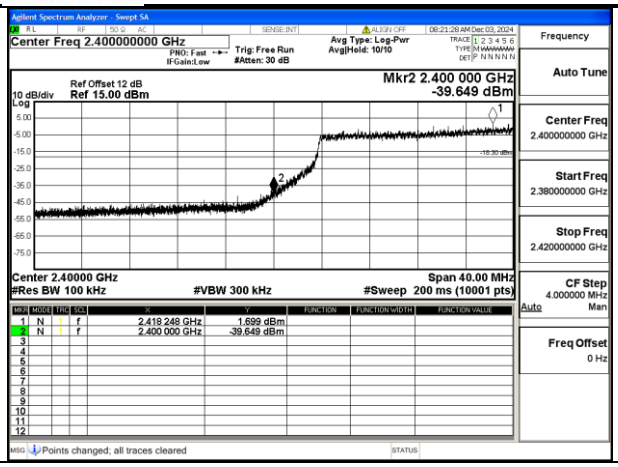


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1

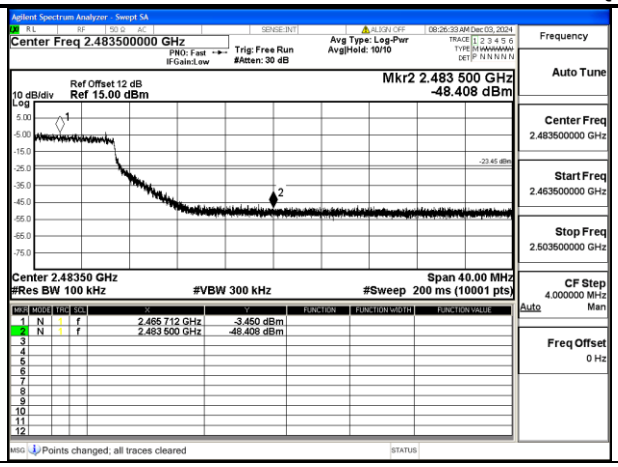


Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

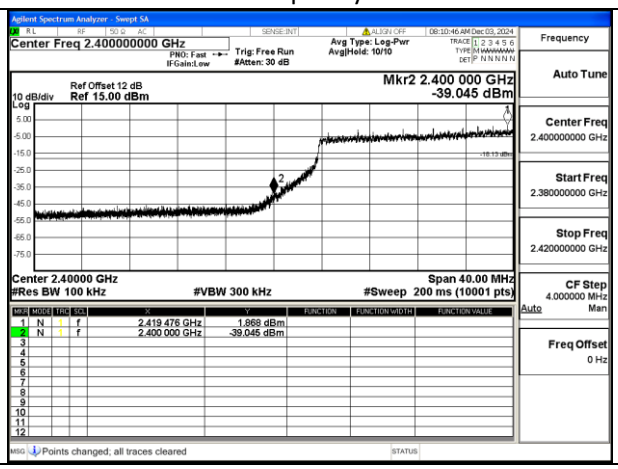
Test Mode: 802.11n HT40



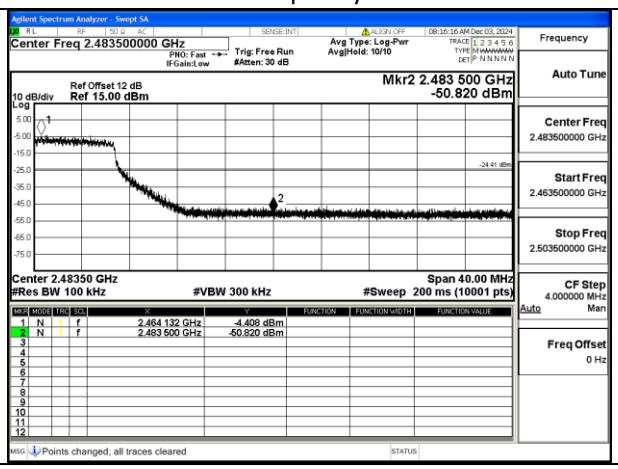
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



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



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



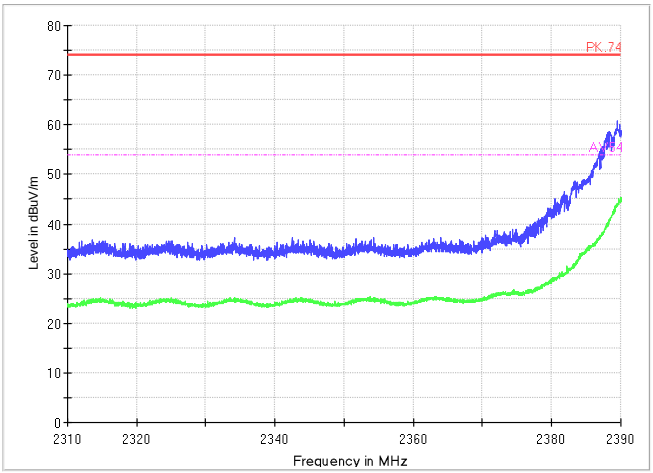
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

APPENDIX B – TEST DATA OF RADIATED EMISSION

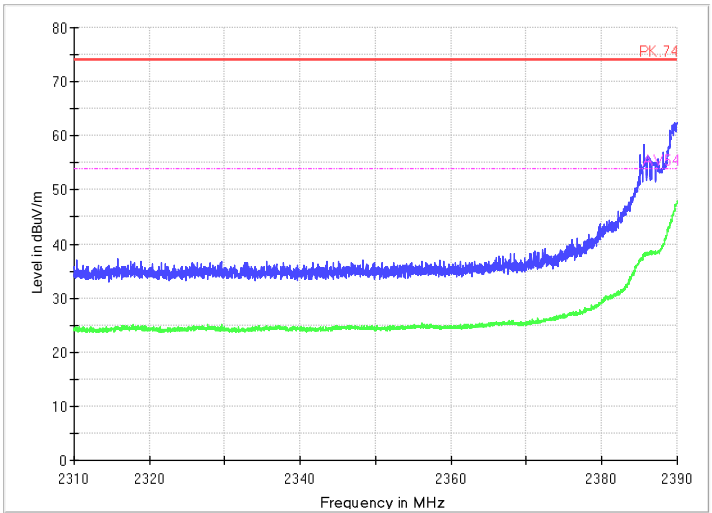
Note：The worst channel results are reflected in the report.

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

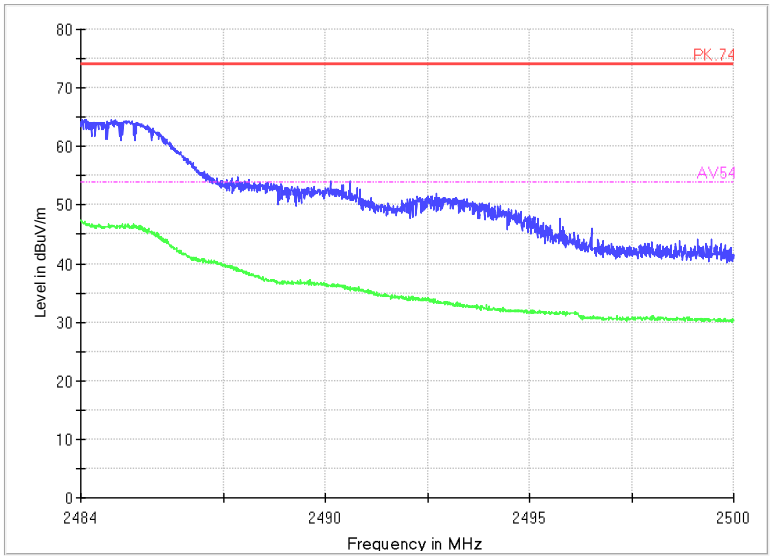
Radiated Emission Band Edge



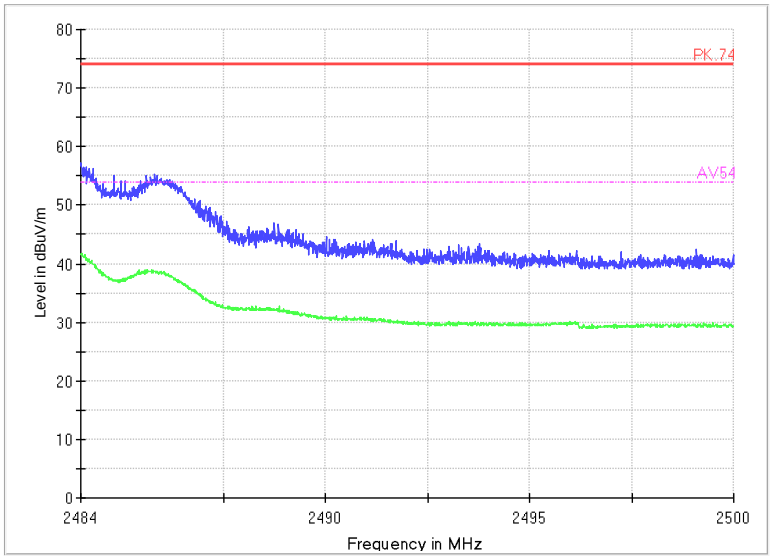
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：V



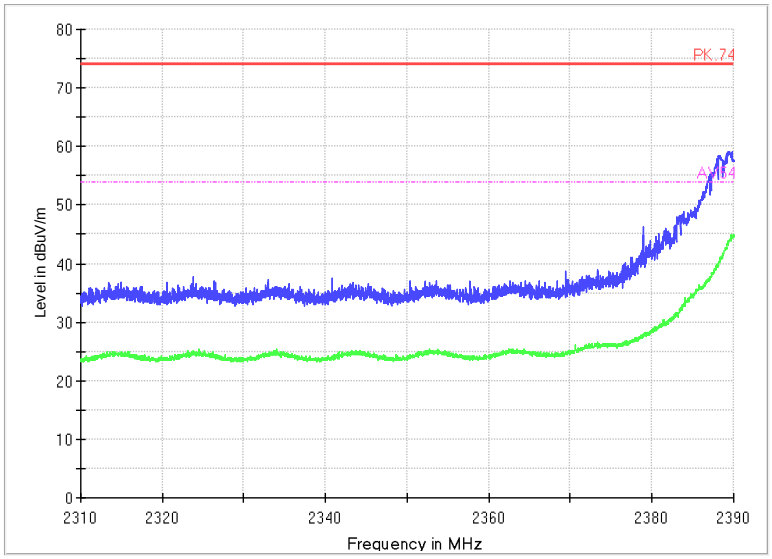
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：H



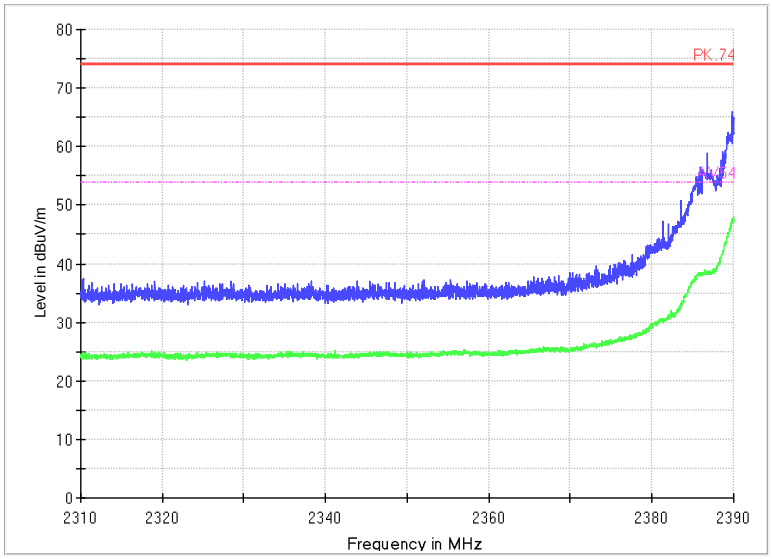
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization：V



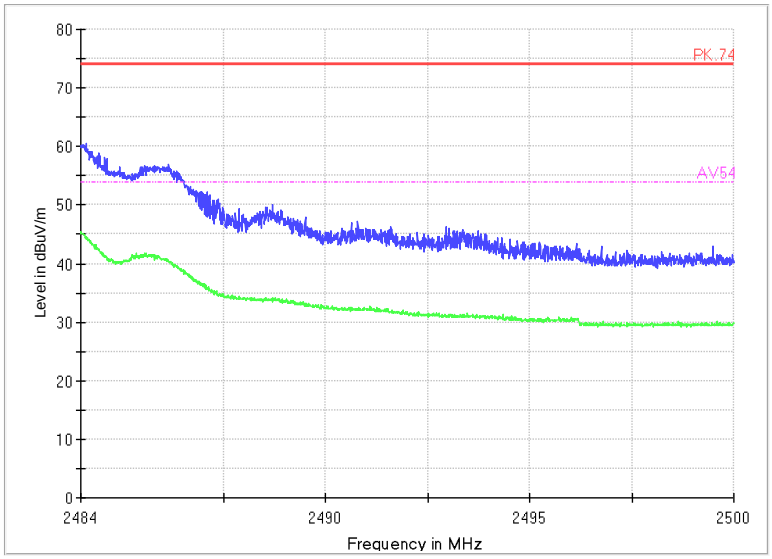
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization：H



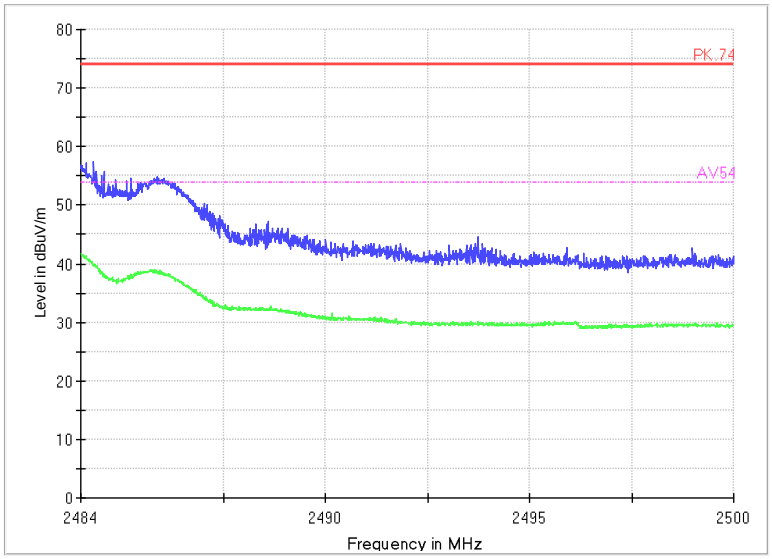
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization：V



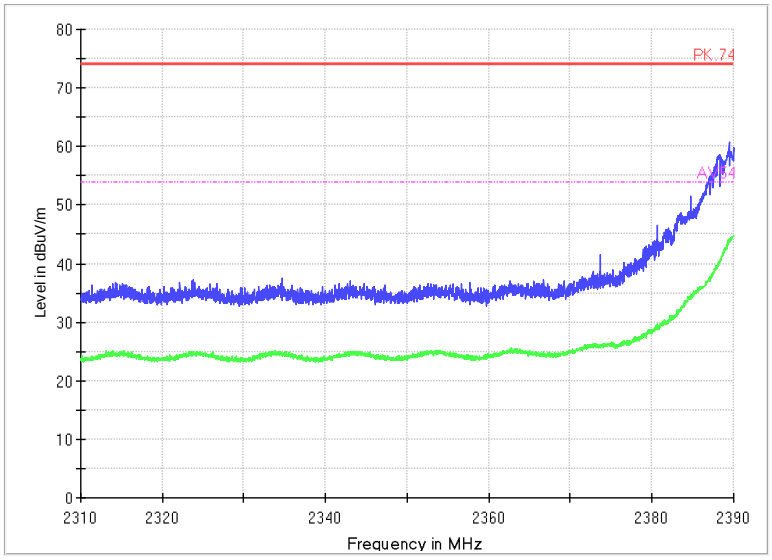
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization：H



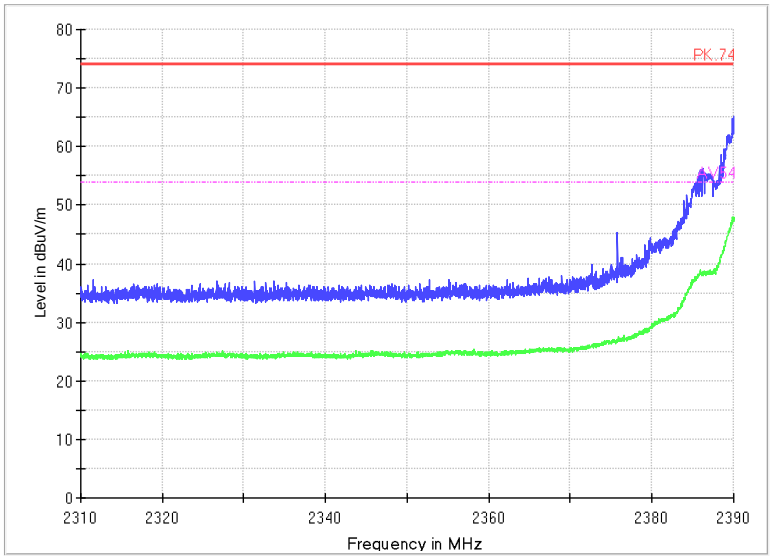
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization：V



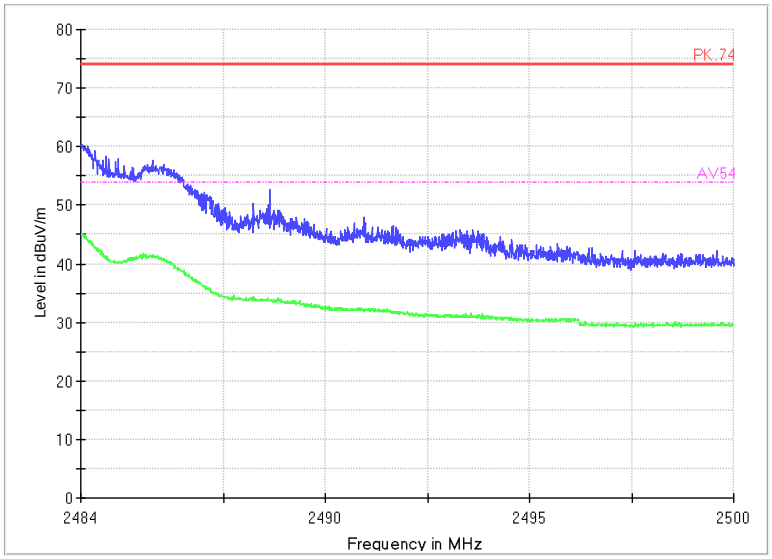
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization：H



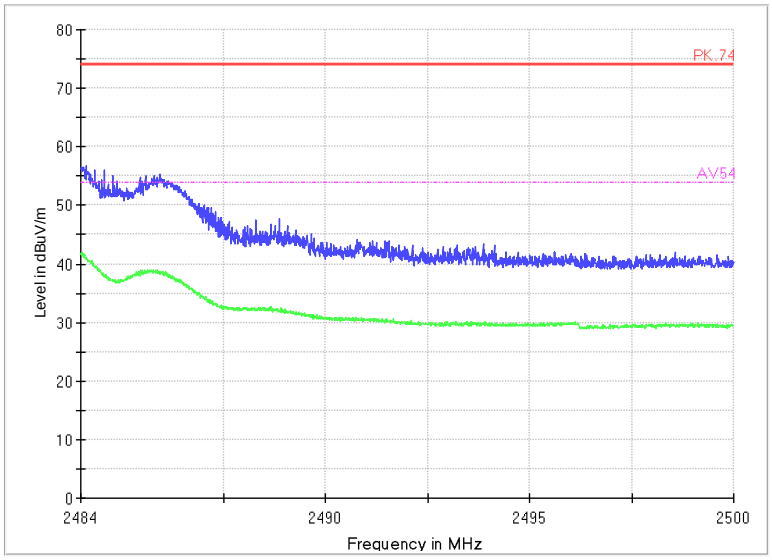
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n(HT20)
Polarization：V



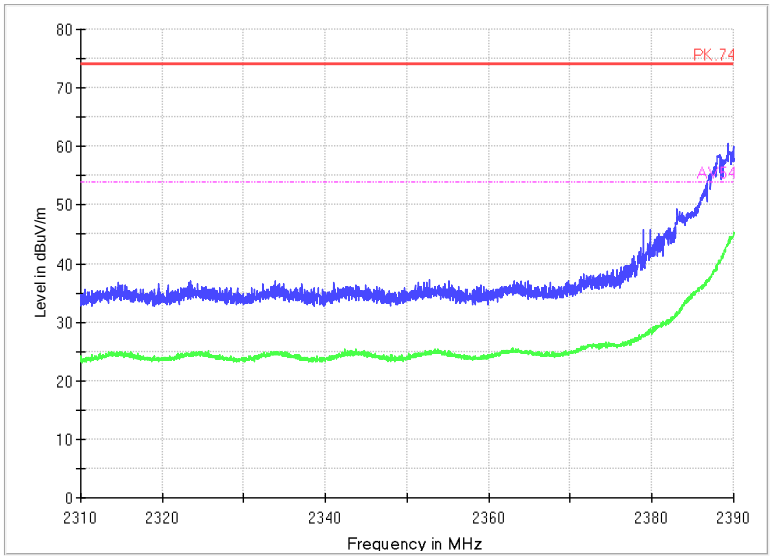
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n(HT20)
Polarization：H



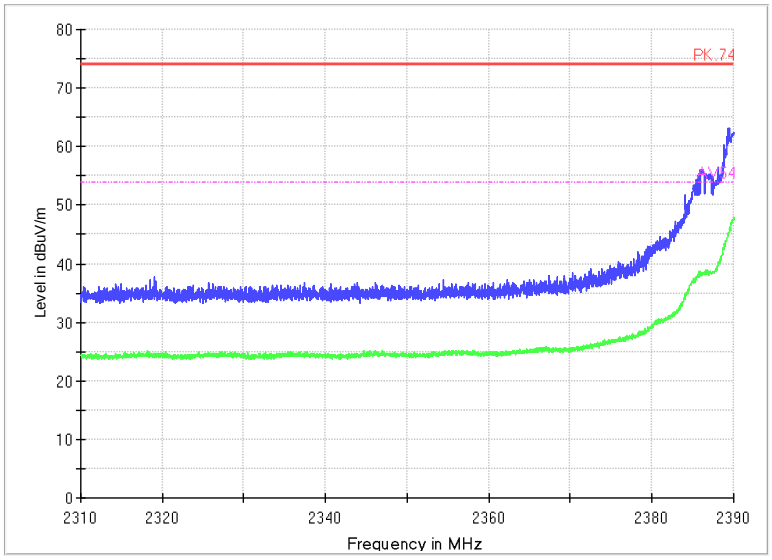
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n(HT20)
Polarization：V



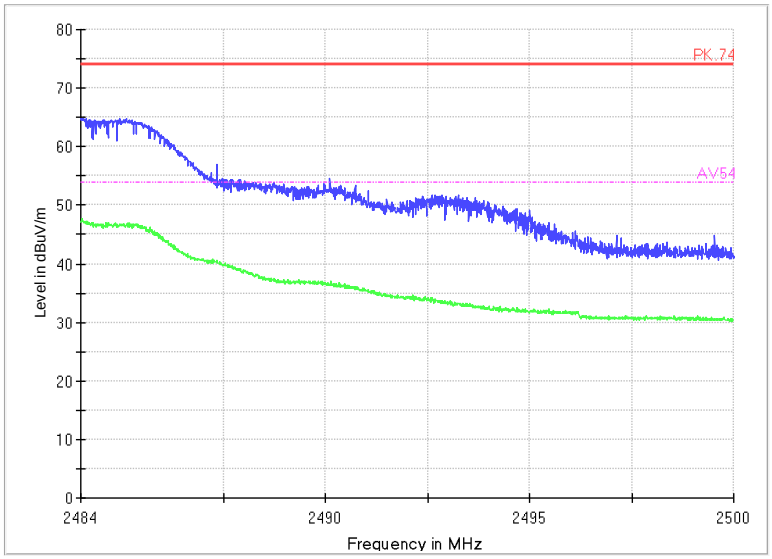
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n(HT20)
Polarization：H



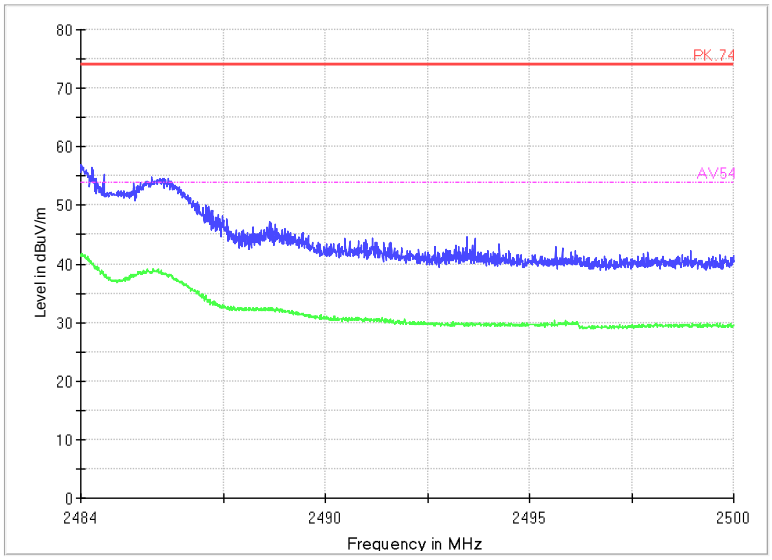
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11ax(HE20)
Polarization：V



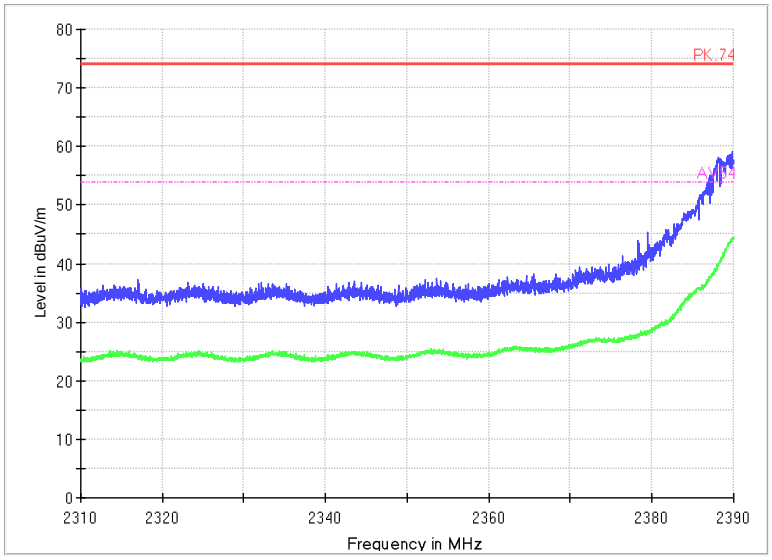
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11ax(HE20)
Polarization：H



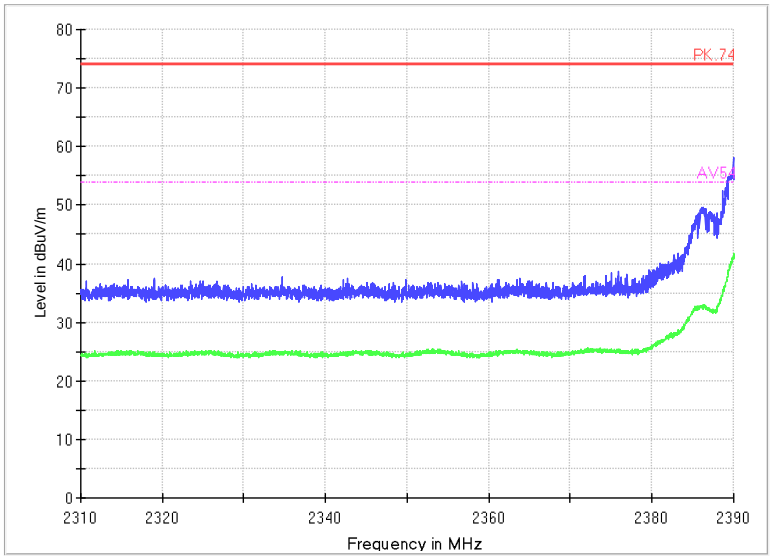
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11ax(HE20)
Polarization：V



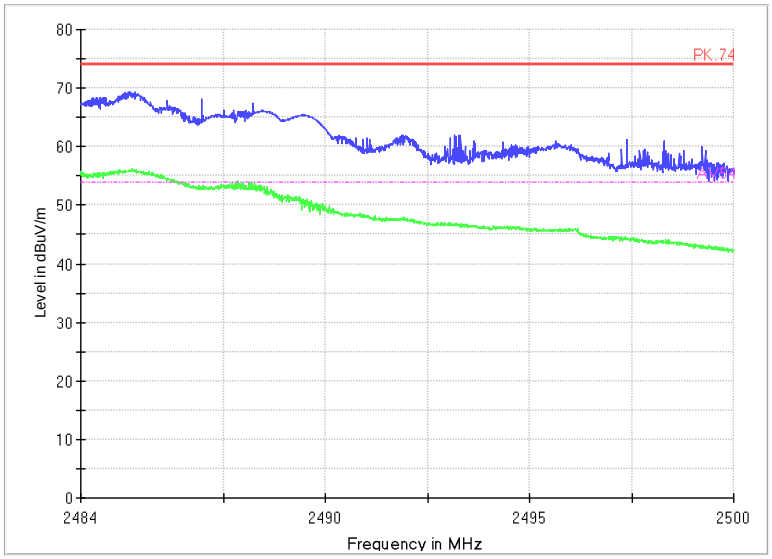
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11ax(HE20)
Polarization：H



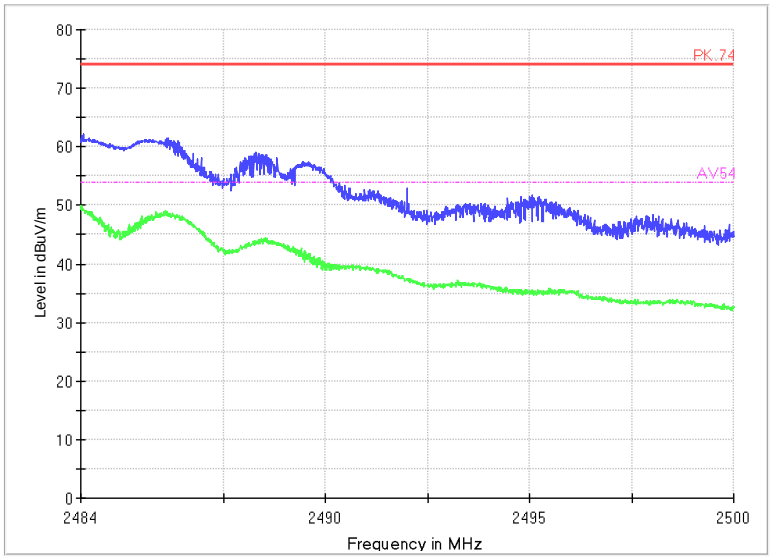
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n(HT40)
Polarization：V



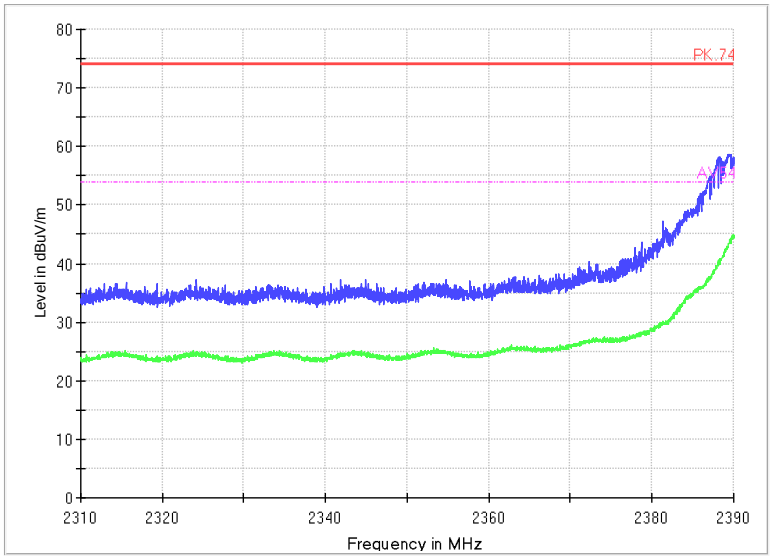
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n(HT40)
Polarization：H



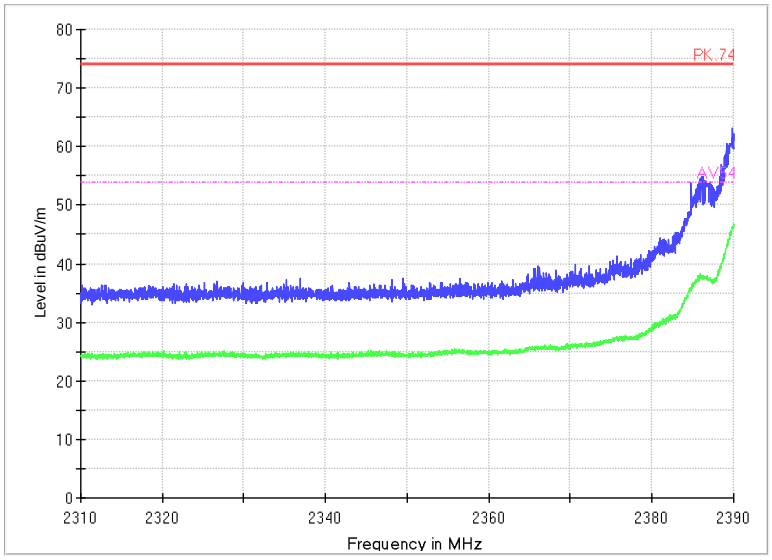
Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n(HT40)
Polarization：V



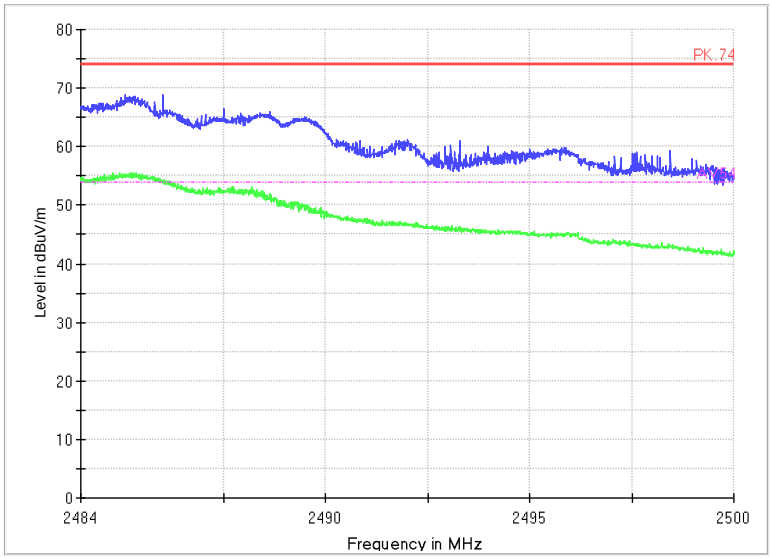
Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n(HT40)
Polarization：H



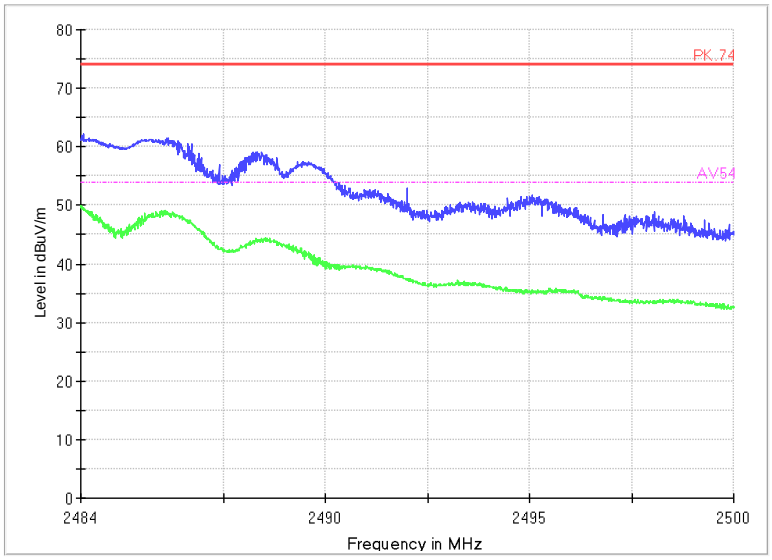
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11ax(HE40)
Polarization：V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11ax(HE40)
Polarization：H



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11ax(HE40)
Polarization：V



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11ax(HE40)
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: (17.65dBμV/m) = (33.25dBμV) + (-15.6dB/m), the corresponding frequency is 53.7165MHz.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.7165	17.65	-15.6	33.25	Vertical	40	22.35
56.578	18.08	-15.8	33.88	Vertical	40	21.92
118.561	18.87	-18.9	37.77	Vertical	43.5	24.63
197.8585	10.07	-16.5	26.57	Vertical	43.5	33.43
556.128	13.89	-8.1	21.99	Vertical	46	32.11
945.1465	18.52	-2.1	20.62	Vertical	46	27.48

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.668	17.66	-15.6	33.26	Vertical	40	22.34
54.25	18.49	-15.6	34.09	Vertical	40	21.51
119.046	19.14	-18.9	38.04	Vertical	43.5	24.36
180.6895	10.18	-18.8	28.98	Vertical	43.5	33.32
551.86	13.52	-8.2	21.72	Vertical	46	32.48
908.6745	18.4	-2.3	20.7	Vertical	46	27.6

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.765	17.85	-15.6	33.45	Vertical	40	22.15
54.153	18.49	-15.6	34.09	Vertical	40	21.51
119.9675	19.98	-19	38.98	Vertical	43.5	23.52
199.5075	9.47	-16.6	26.07	Vertical	43.5	34.03
552.6845	20.05	-8.2	28.25	Vertical	46	25.95
912.9425	18.55	-2.1	20.65	Vertical	46	27.45

For 802.11ax(HE20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.915	17.34	-15.4	32.74	Vertical	40	22.66
57.2085	14.85	-15.9	30.75	Vertical	40	25.15

119.9675	19.99	-19	38.99	Vertical	43.5	23.51
196.452	9.89	-16.5	26.39	Vertical	43.5	33.61
526.543	14	-8.7	22.7	Vertical	46	32
918.714	18.85	-1.8	20.65	Vertical	46	27.15

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.721	17.87	-15.4	33.27	Vertical	40	22.13
55.0745	17.16	-15.7	32.86	Vertical	40	22.84
128.4065	18.58	-20.2	38.78	Vertical	43.5	24.92
180.3985	9.94	-18.8	28.74	Vertical	43.5	33.56
511.799	13.21	-9	22.21	Vertical	46	32.79
885.928	18.31	-2.4	20.71	Vertical	46	27.69

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.571	17.61	-15.5	33.11	Vertical	40	22.39
57.0145	16.22	-15.9	32.12	Vertical	40	23.78
120.016	20.15	-19	39.15	Vertical	43.5	23.35
174.724	8.83	-19.4	28.23	Vertical	43.5	34.67
517.0855	13.3	-8.8	22.1	Vertical	46	32.7
915.61	18.8	-2	20.8	Vertical	46	27.2

For 802.11n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.3905	20.44	-17.5	37.94	Vertical	40	19.56
55.511	16.87	-15.7	32.57	Vertical	40	23.13
118.6095	17.52	-18.9	36.42	Vertical	43.5	25.98
200.041	15.18	-16.6	31.78	Vertical	43.5	28.32
500.0135	23.09	-9.3	32.39	Vertical	46	22.91
929.772	18.89	-1.6	20.49	Vertical	46	27.11

For 802.11ax(HE20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.5225	17.57	-15.5	33.07	Vertical	40	22.43
55.0745	17.08	-15.7	32.78	Vertical	40	22.92
119.337	19.47	-19	38.47	Vertical	43.5	24.03
186.6065	8.74	-18.2	26.94	Vertical	43.5	34.76
486.6275	12.41	-9.5	21.91	Vertical	46	33.59
877.392	18.26	-2.3	20.56	Vertical	46	27.74

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.8665	17.72	-15.4	33.12	Vertical	40	22.28
56.19	18.21	-15.7	33.91	Vertical	40	21.79
127.7275	17.91	-20.2	38.11	Vertical	43.5	25.59
194.512	9.15	-16.9	26.05	Vertical	43.5	34.35
511.0715	13.2	-9.1	22.3	Vertical	46	32.8
921.9635	18.89	-1.7	20.59	Vertical	46	27.11

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
37.8085	20.43	-17.7	38.13	Vertical	40	19.57
55.608	16.61	-15.7	32.31	Vertical	40	23.39
169.3405	16.64	-19.6	36.24	Vertical	43.5	26.86
198.877	15.12	-16.5	31.62	Vertical	43.5	28.38
500.0135	22.88	-9.3	32.18	Vertical	46	23.12
585.3735	20.64	-7.4	28.04	Vertical	46	25.36

For 802.11n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.266	20.25	-15.6	35.85	Vertical	40	19.75
56.481	17.25	-15.8	33.05	Vertical	40	22.75
118.7065	17.36	-18.9	36.26	Vertical	43.5	26.14
198.101	15.32	-16.5	31.82	Vertical	43.5	28.18
500.0135	22.89	-9.3	32.19	Vertical	46	23.11
583.967	20.74	-7.5	28.24	Vertical	46	25.26

For 802.11ax(HE20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
53.668	17.72	-15.6	33.32	Vertical	40	22.28
56.2385	17.96	-15.8	33.76	Vertical	40	22.04
146.012	18.29	-20.8	39.09	Vertical	43.5	25.21
179.8165	10.49	-18.9	29.39	Vertical	43.5	33.01
532.0235	13.71	-8.6	22.31	Vertical	46	32.29
900.7205	18.18	-2.5	20.68	Vertical	46	27.82

For 802.11n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.2545	17.28	-15.4	32.68	Vertical	40	22.72

53.9105	18.01	-15.6	33.61	Vertical	40	21.99
146.6425	17.93	-20.8	38.73	Vertical	43.5	25.57
186.0245	9.29	-18.2	27.49	Vertical	43.5	34.21
517.9585	13.56	-8.8	22.36	Vertical	46	32.44
930.8875	18.92	-1.6	20.52	Vertical	46	27.08

For 802.11ax(HE40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.169	20.91	-15.6	36.51	Vertical	40	19.09
55.414	16.21	-15.7	31.91	Vertical	40	23.79
118.658	17.52	-18.9	36.42	Vertical	43.5	25.98
199.5075	15.18	-16.6	31.78	Vertical	43.5	28.32
525.3305	29.03	-8.7	37.73	Vertical	46	16.97
581.639	21.33	-7.6	28.93	Vertical	46	24.67

For 802.11n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.3145	20.89	-15.6	36.49	Vertical	40	19.11
56.3355	16.75	-15.8	32.55	Vertical	40	23.25
119.7735	17.2	-19	36.2	Vertical	43.5	26.3
197.2765	15.43	-16.5	31.93	Vertical	43.5	28.07
500.0135	22.92	-9.3	32.22	Vertical	46	23.08
886.801	18.4	-2.4	20.8	Vertical	46	27.6

For 802.11ax(HE40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.4875	19.7	-17.5	37.2	Vertical	40	20.3
55.026	16.56	-15.6	32.16	Vertical	40	23.44
171.135	15.4	-19.5	34.9	Vertical	43.5	28.1
197.2765	15.8	-16.5	32.3	Vertical	43.5	27.7
500.0135	22.83	-9.3	32.13	Vertical	46	23.17
878.2165	18.28	-2.3	20.58	Vertical	46	27.72

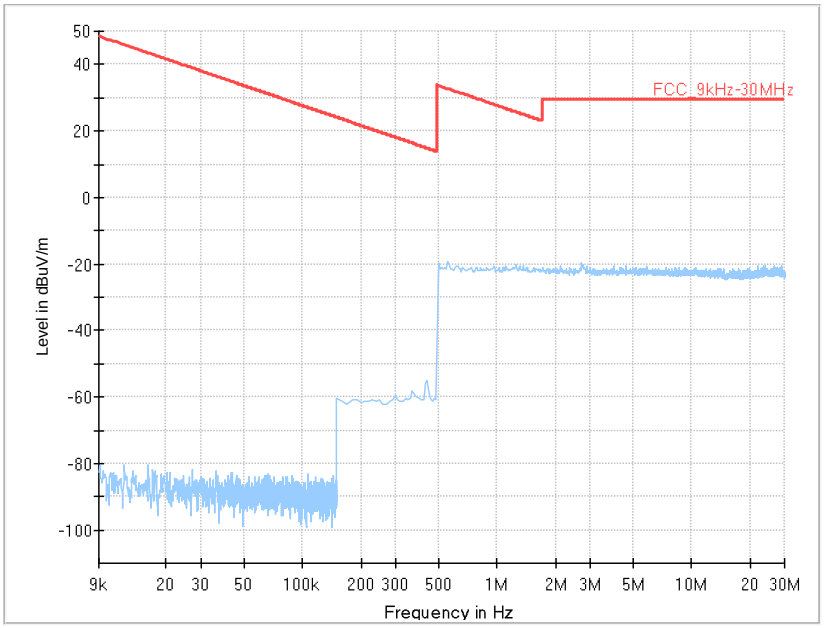
For 802.11n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.557	20.46	-15.5	35.96	Vertical	40	19.54
54.347	16.28	-15.6	31.88	Vertical	40	23.72
118.949	16.97	-18.9	35.87	Vertical	43.5	26.53
198.198	15.45	-16.5	31.95	Vertical	43.5	28.05
500.0135	22.79	-9.3	32.09	Vertical	46	23.21

577.4195	20.88	-7.8	28.68	Vertical	46	25.12

For 802.11ax(HE40) Channel No.:9

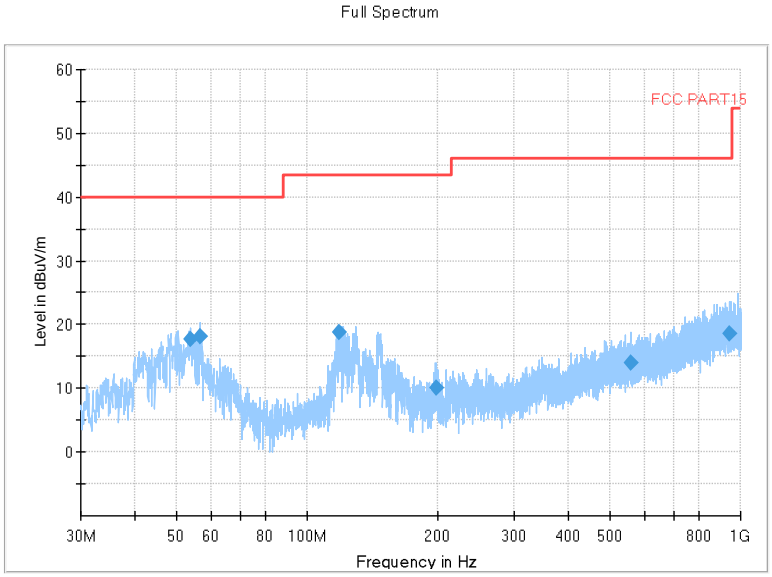
Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	17.46	-15.5	32.96	Vertical	40	22.54
55.4625	17.22	-15.7	32.92	Vertical	40	22.78
117.591	18.31	-18.8	37.11	Vertical	43.5	25.19
199.847	8.92	-16.6	25.52	Vertical	43.5	34.58
500.0135	15.25	-9.3	24.55	Vertical	46	30.75
864.9275	18.14	-2.4	20.54	Vertical	46	27.86



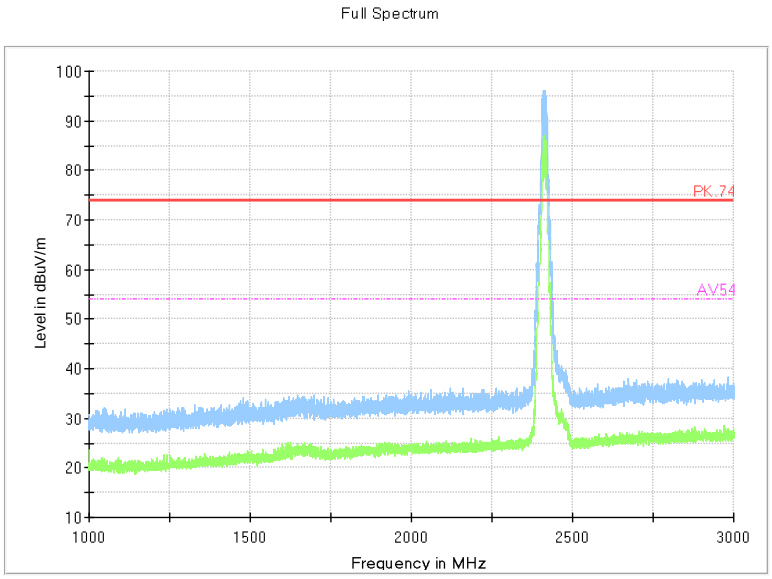
Frequency Range: 9kHz -30MHz
Detector: QP mode

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.

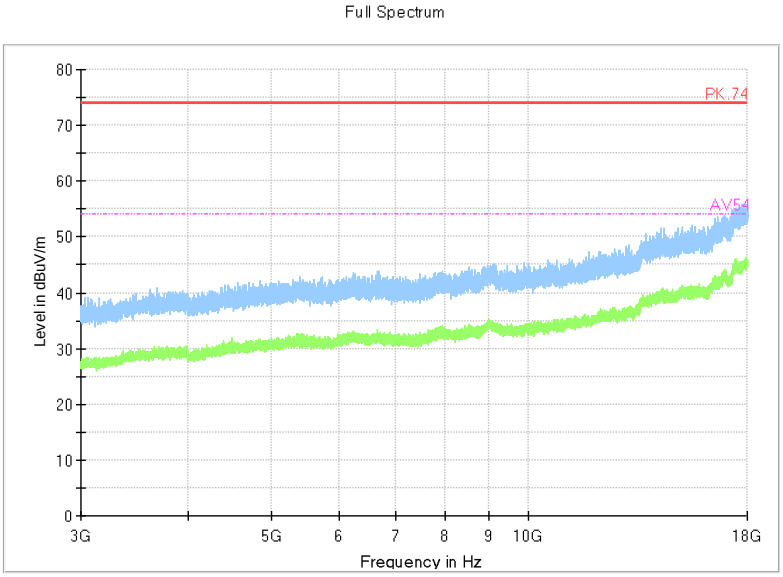
Carrier frequency (MHz): 2412
Channel No.:1



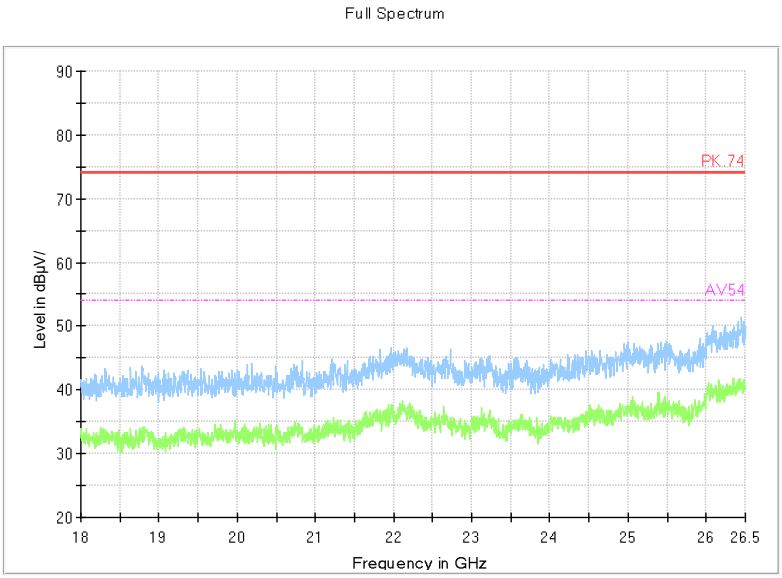
Frequency Range30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



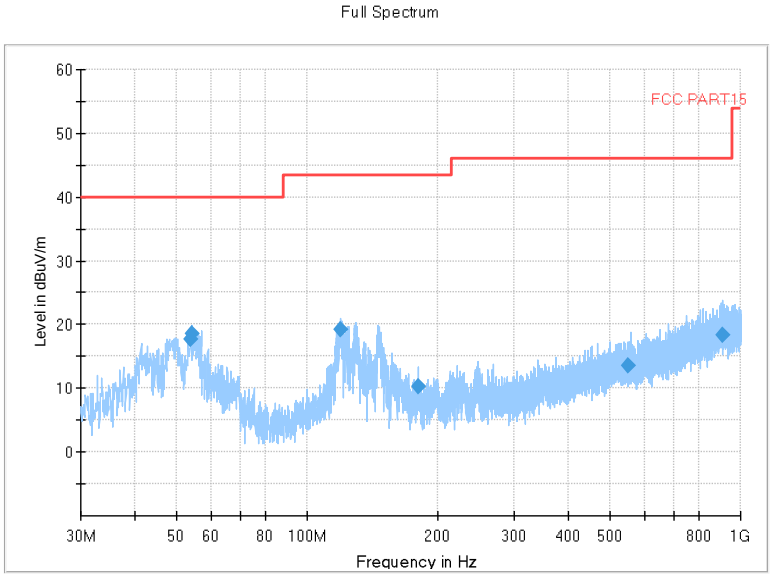
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



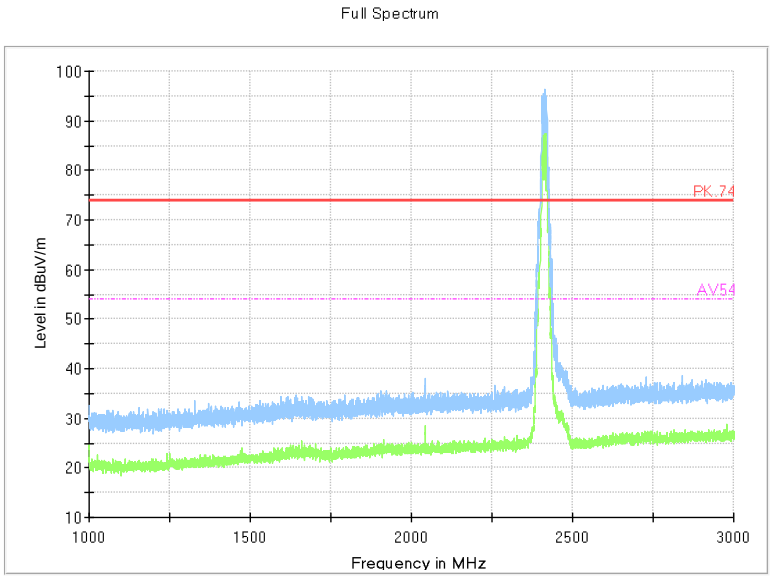
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



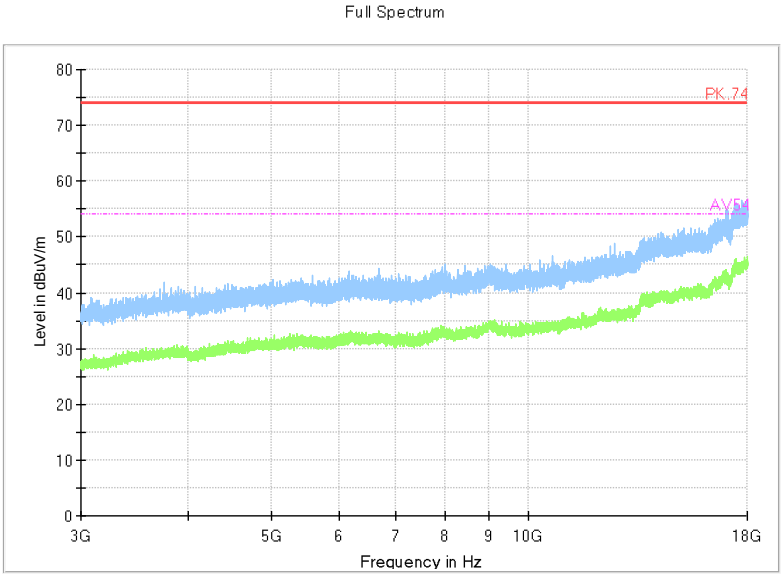
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



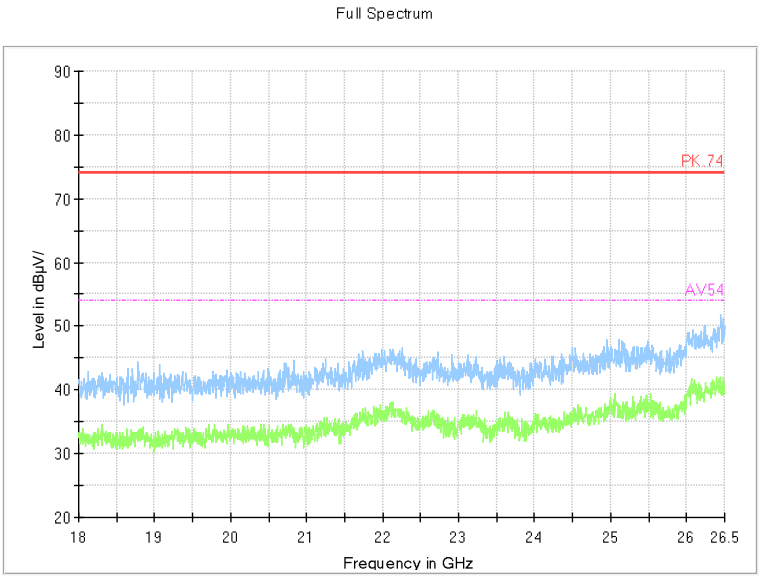
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



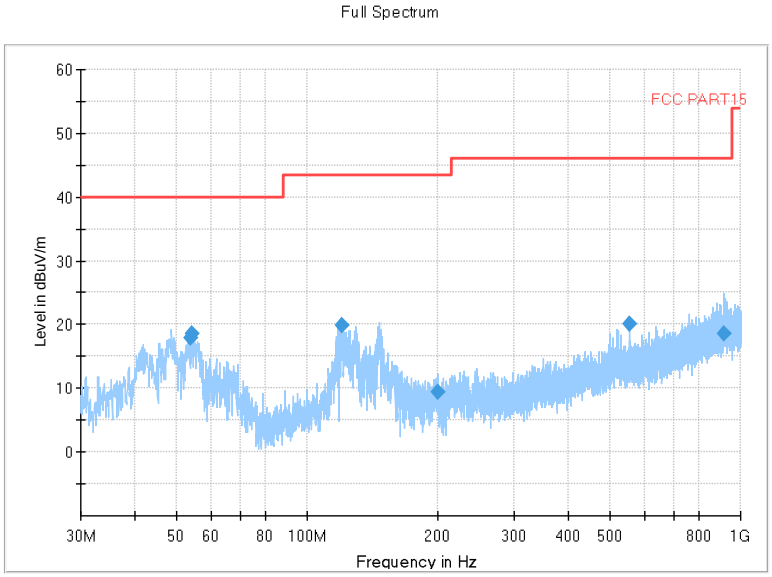
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



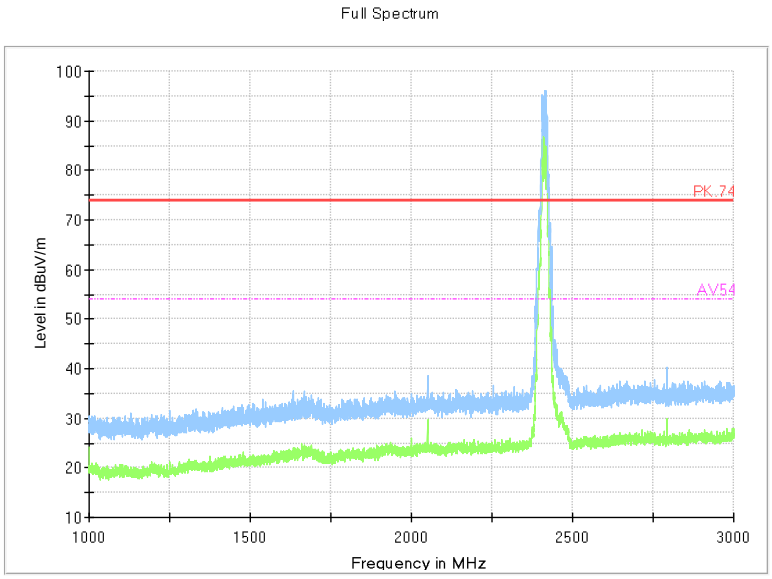
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



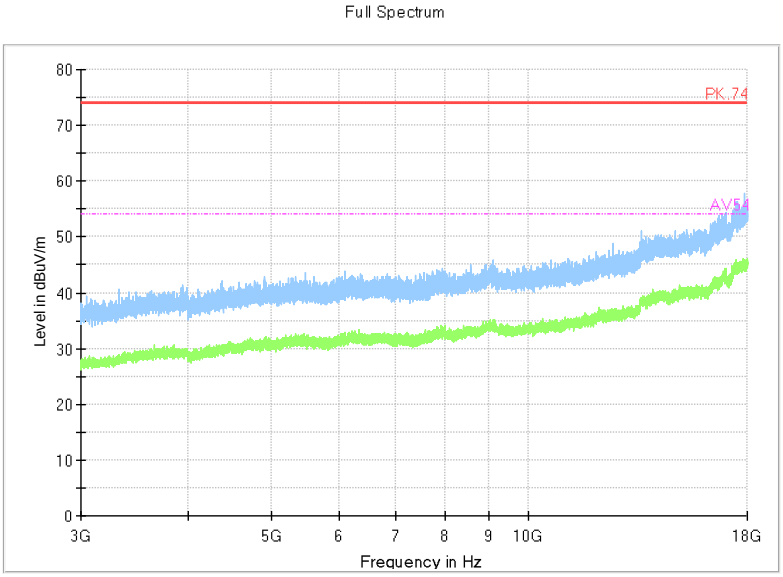
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



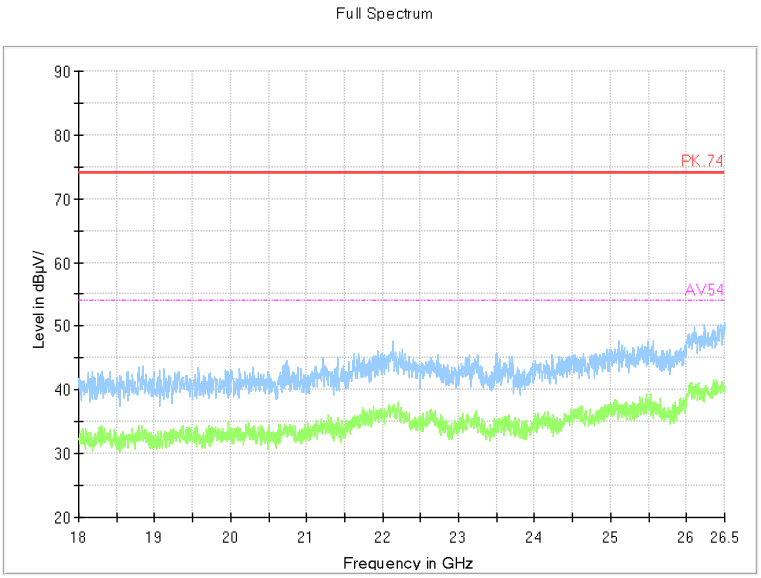
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



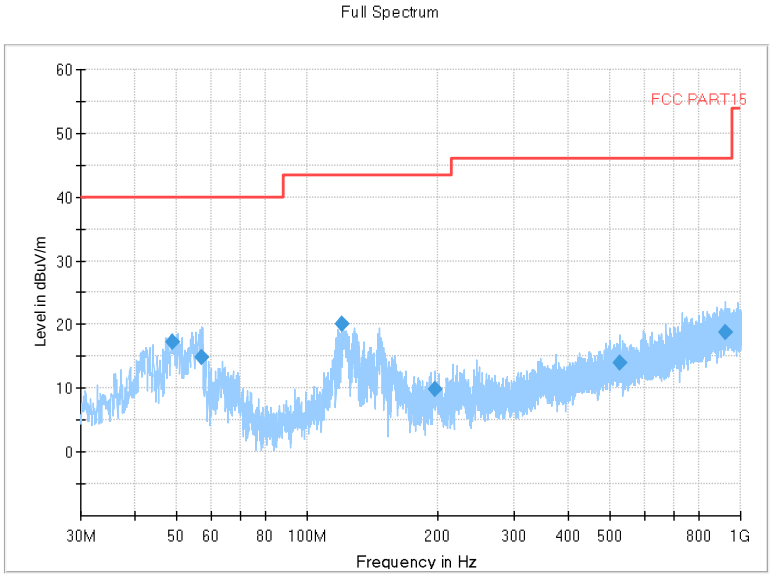
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



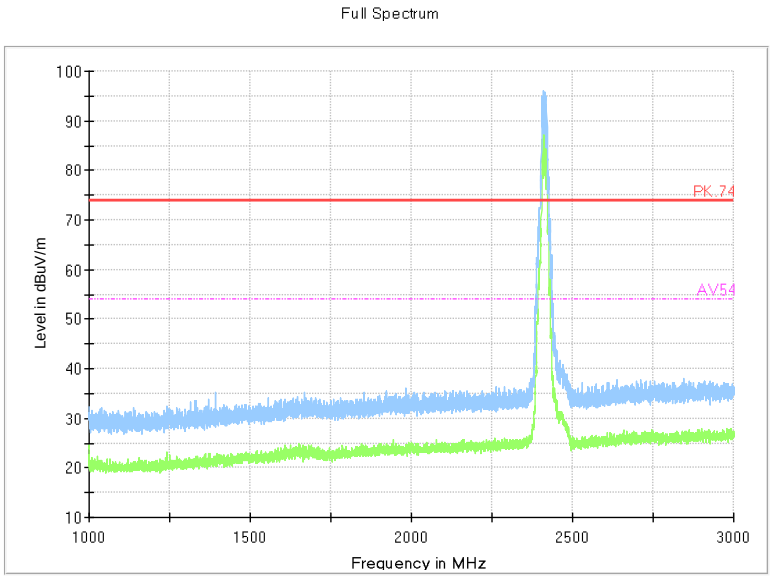
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



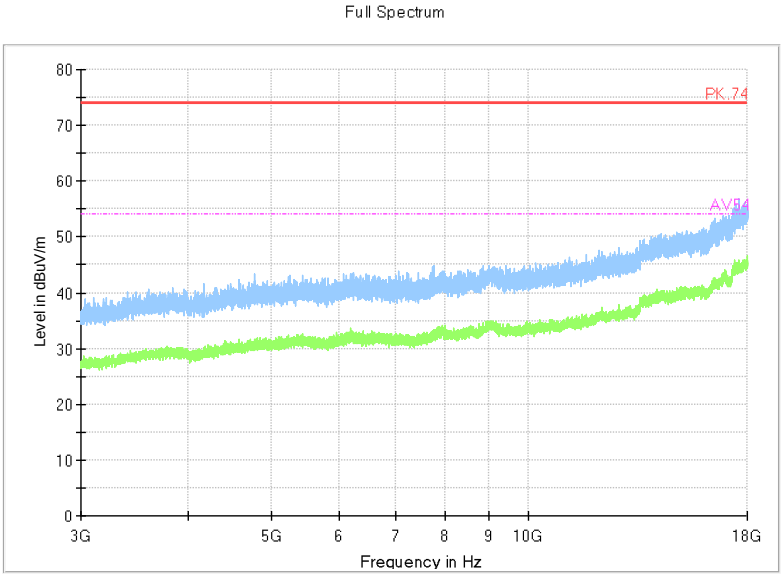
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



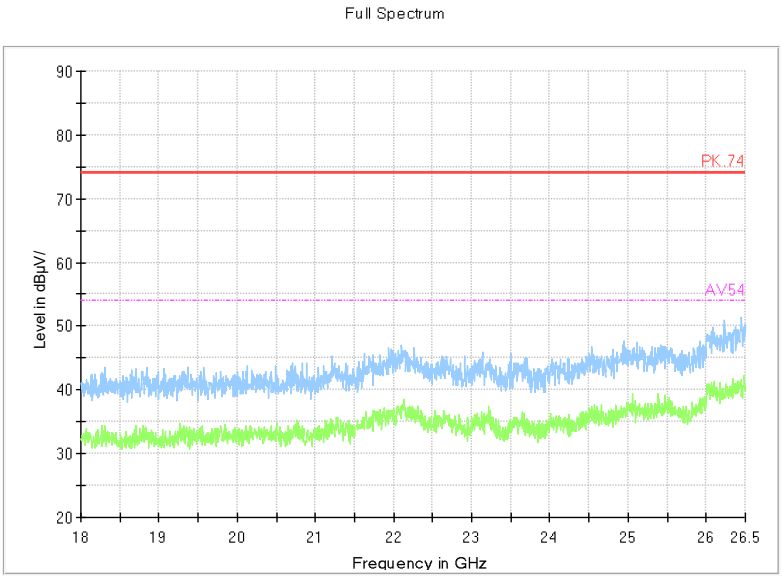
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

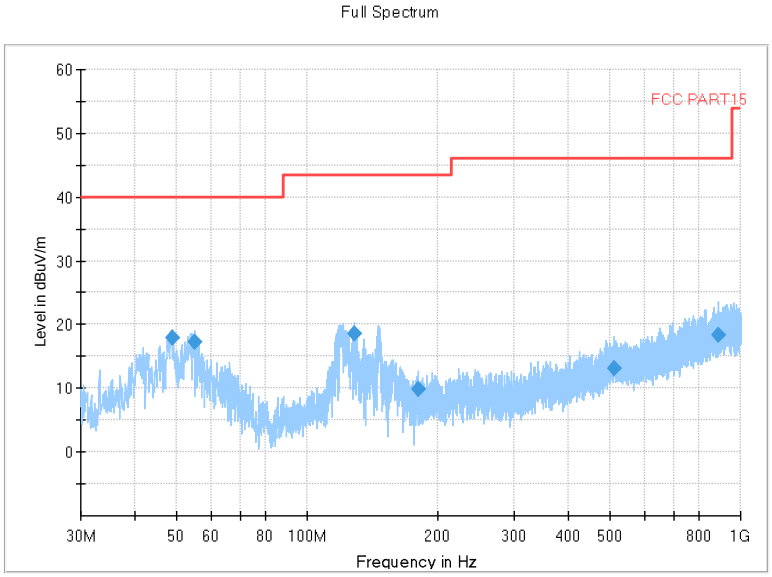


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

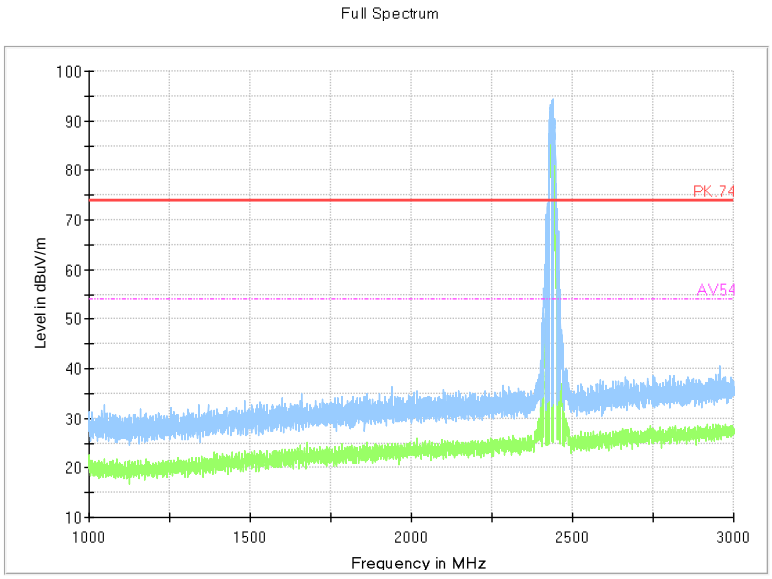


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

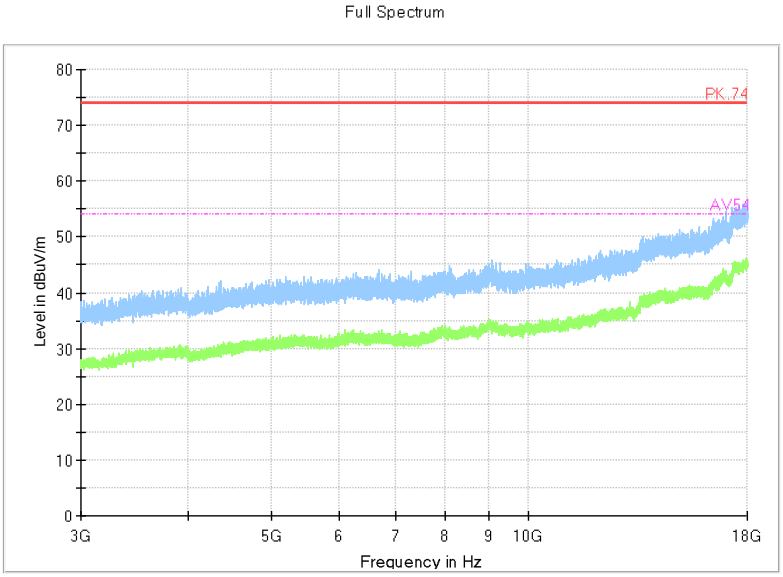
Carrier frequency (MHz): 2437
Channel No.:6



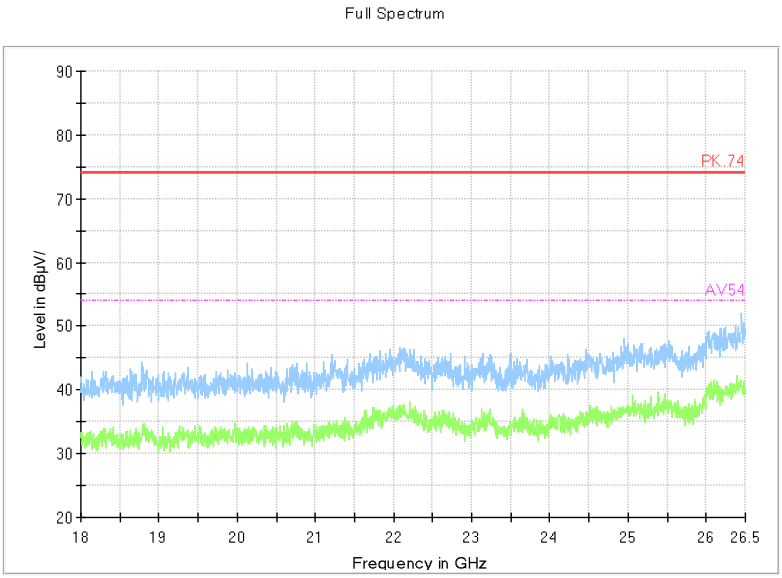
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



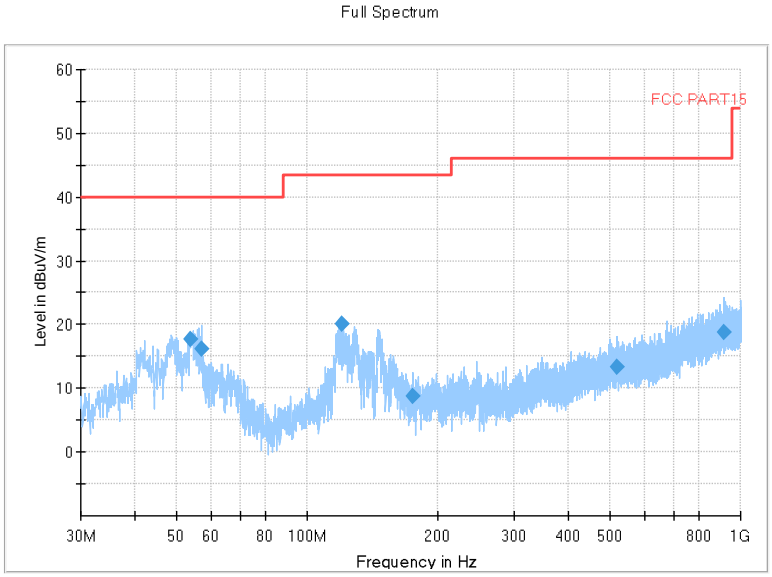
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



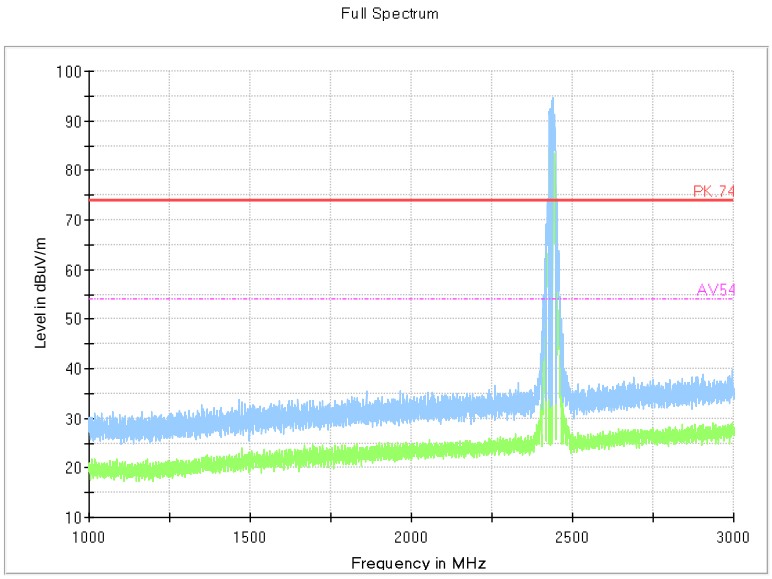
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



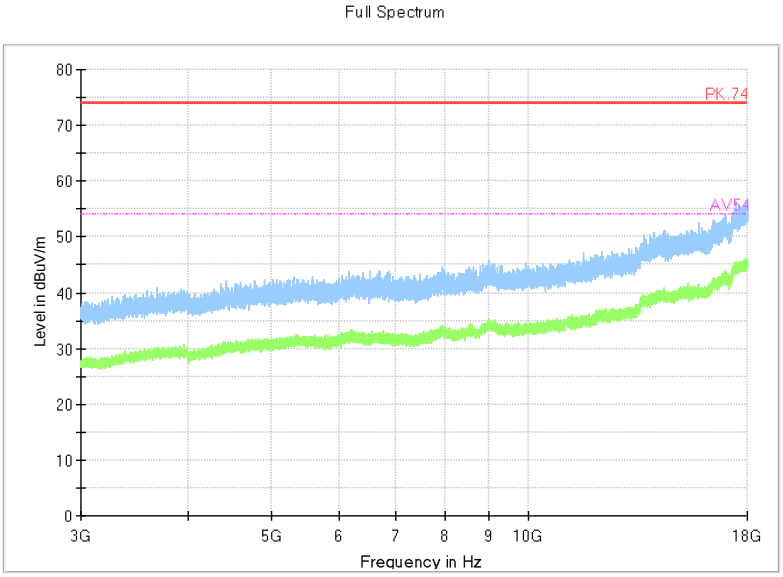
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



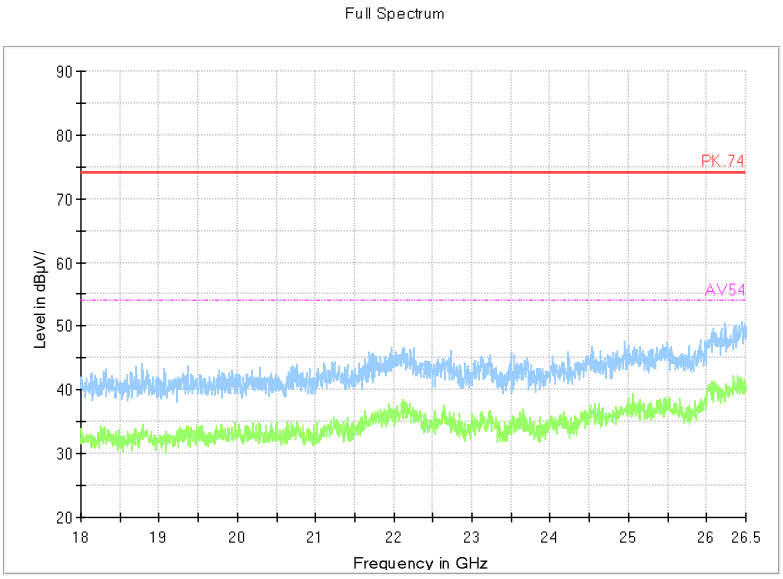
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



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

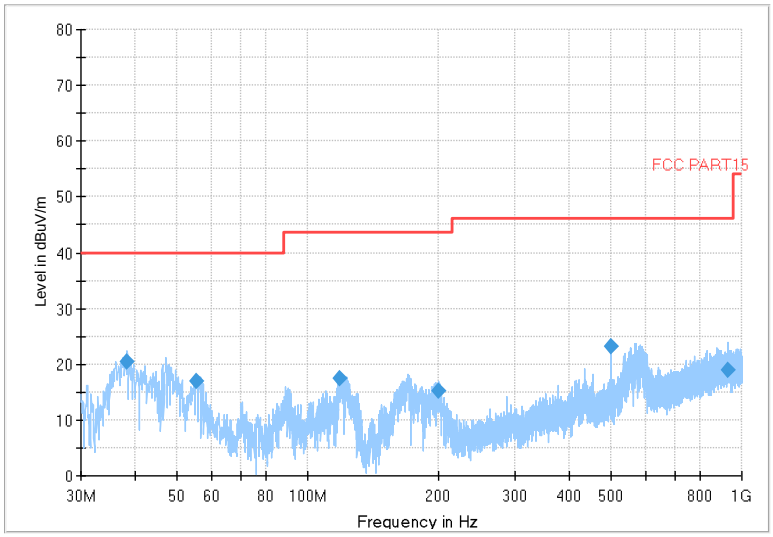


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



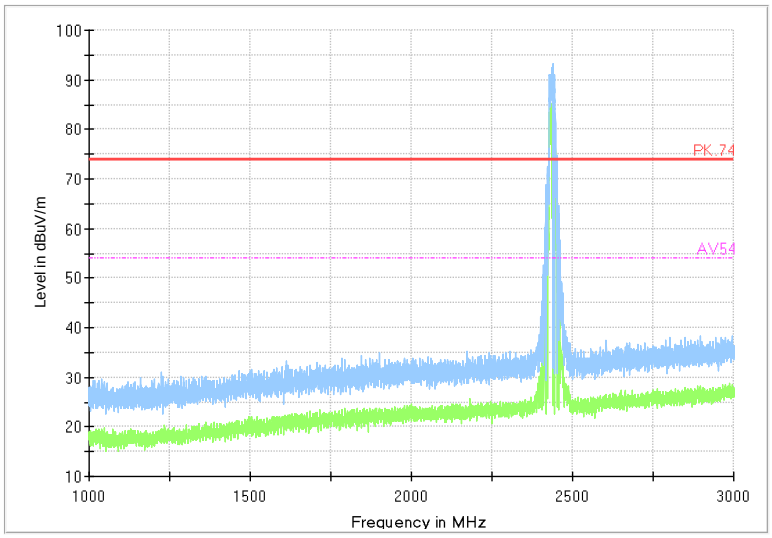
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

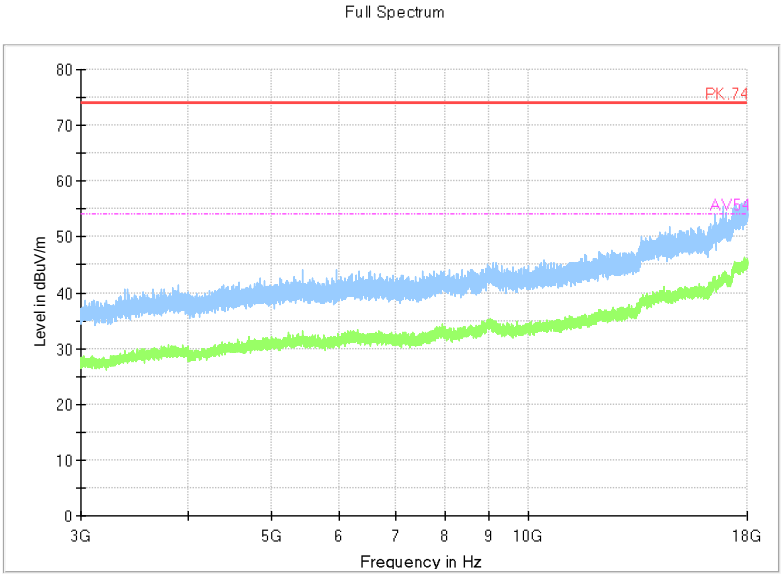


Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

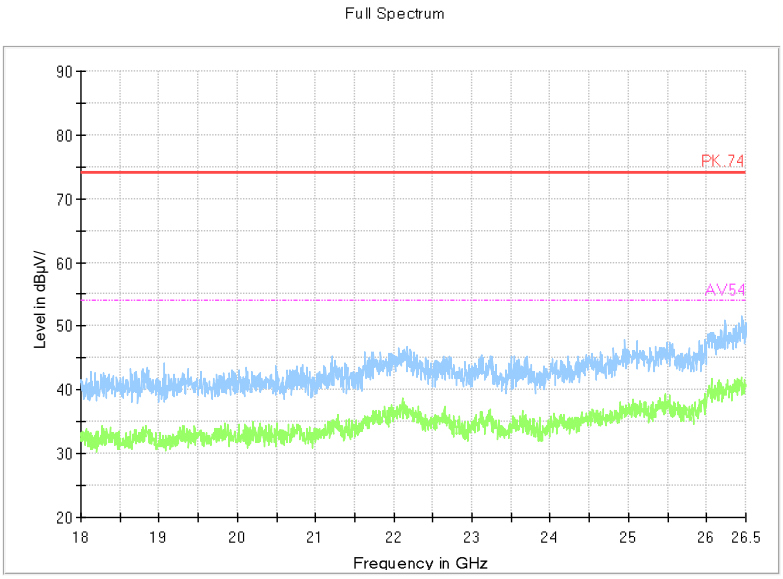
Full Spectrum



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

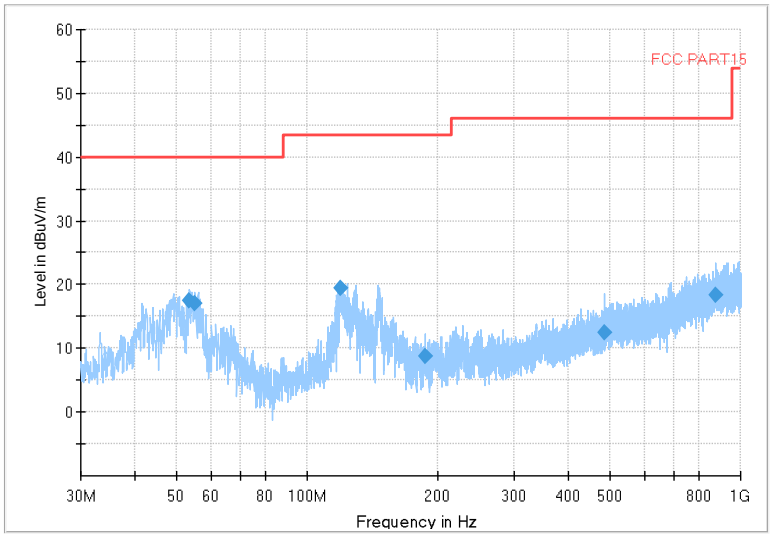


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



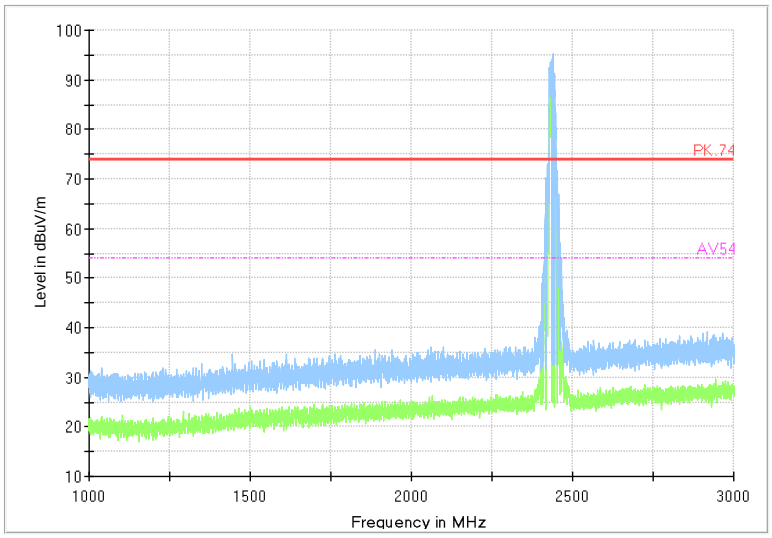
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum

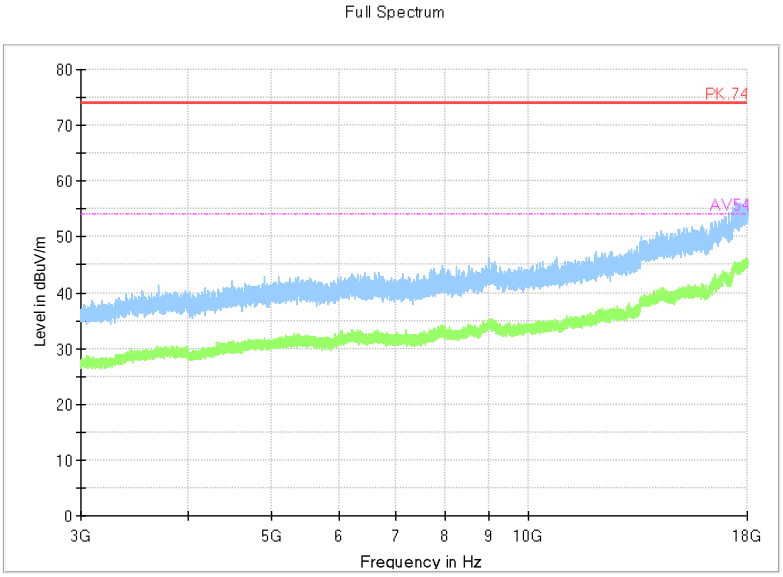


Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

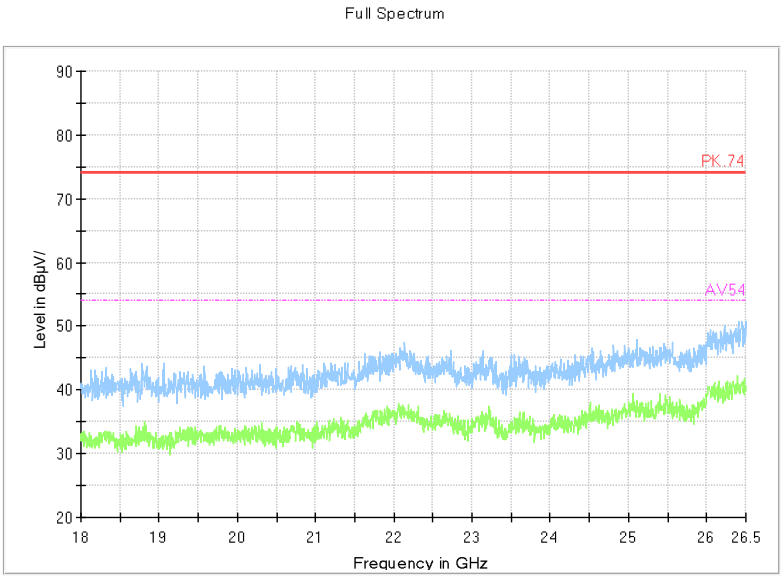
Full Spectrum



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

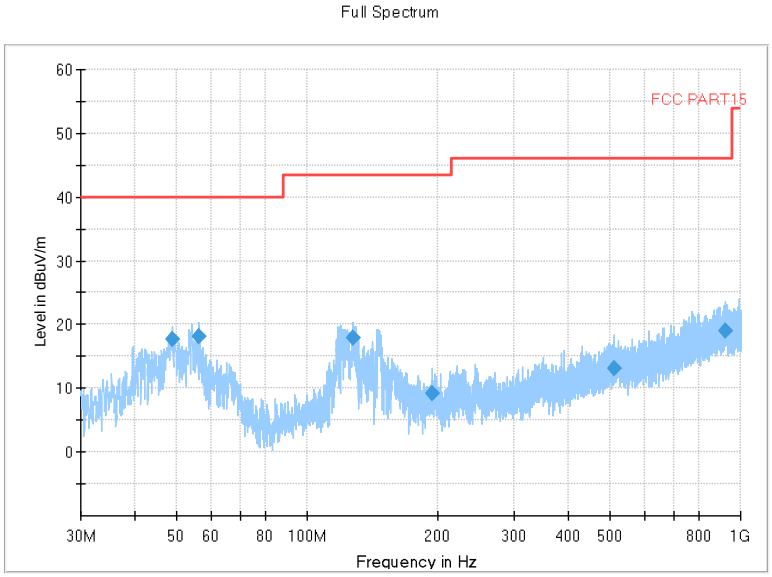


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

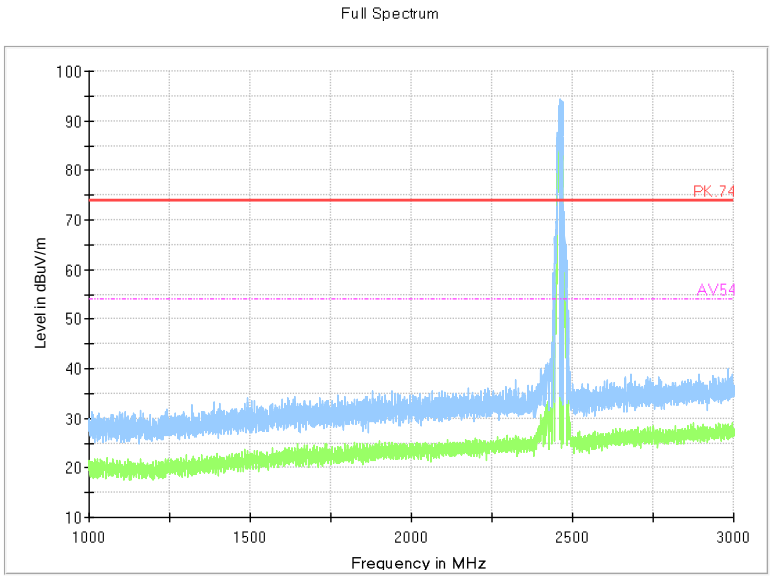


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

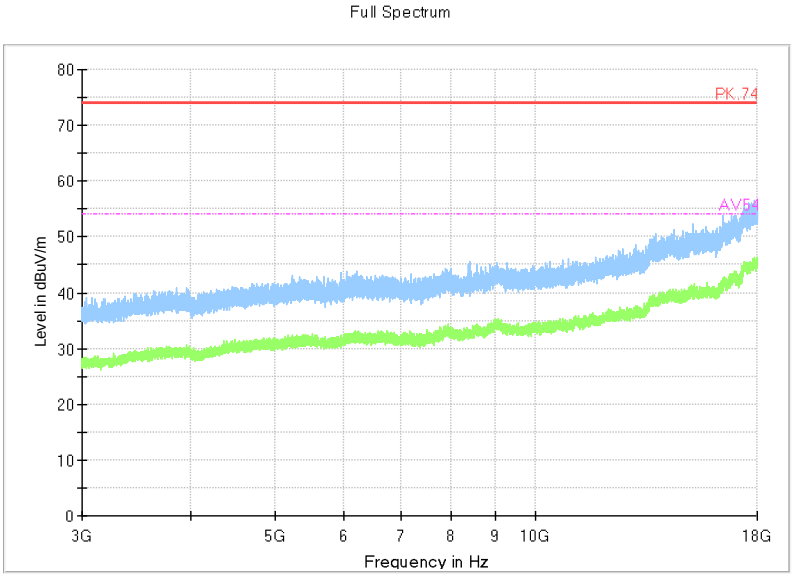
Carrier frequency (MHz): 2462
Channel No.:11



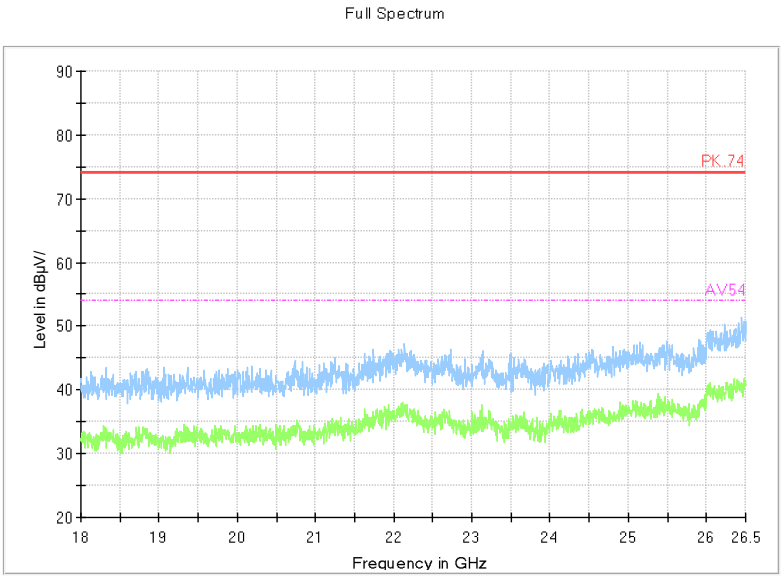
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



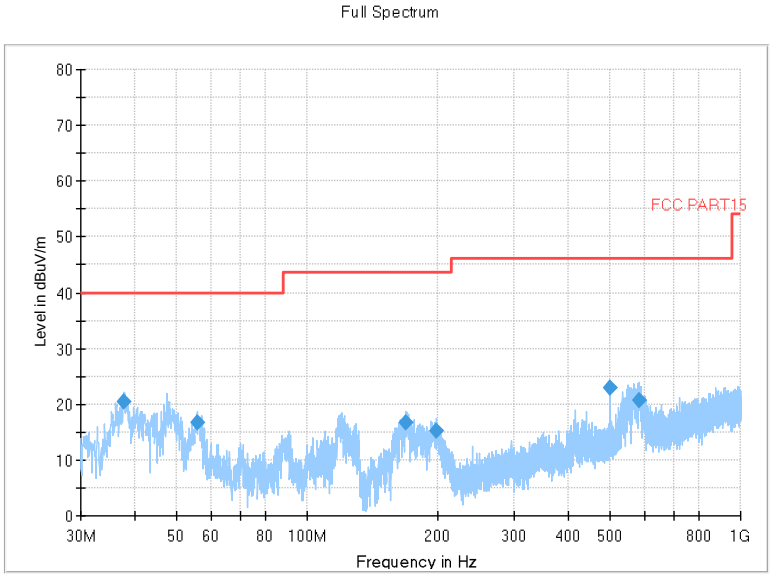
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



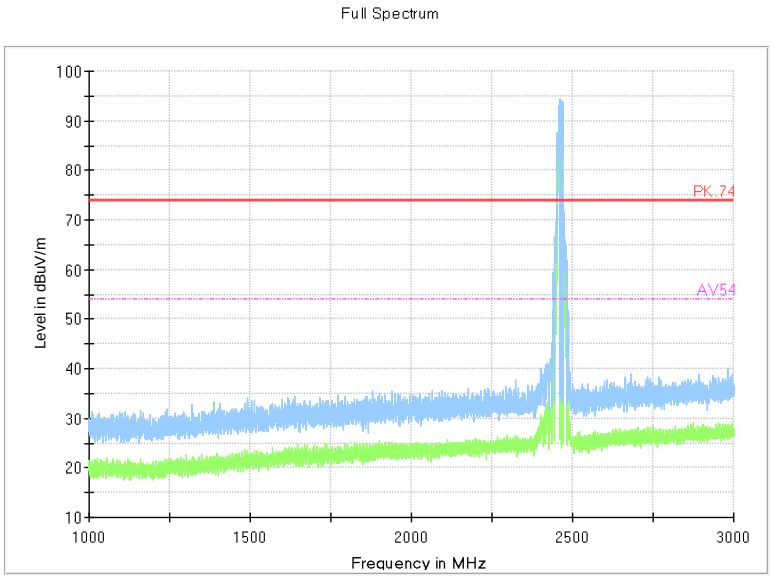
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



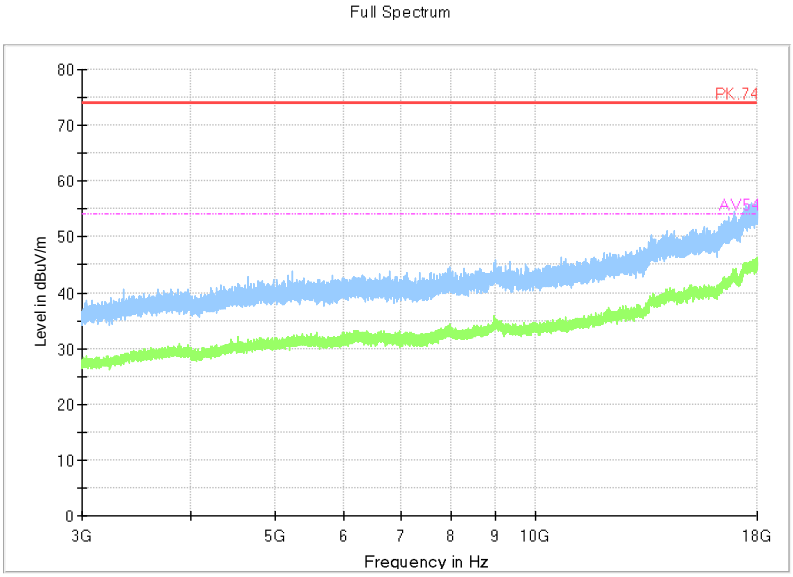
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



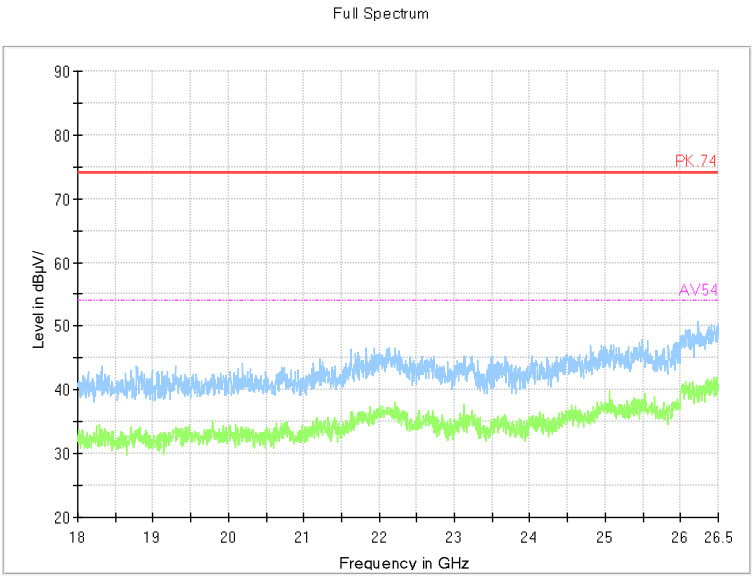
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



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

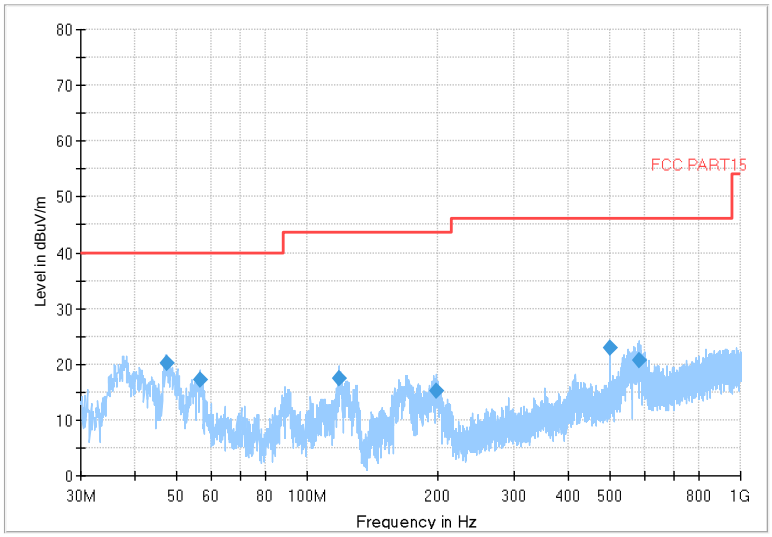


Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



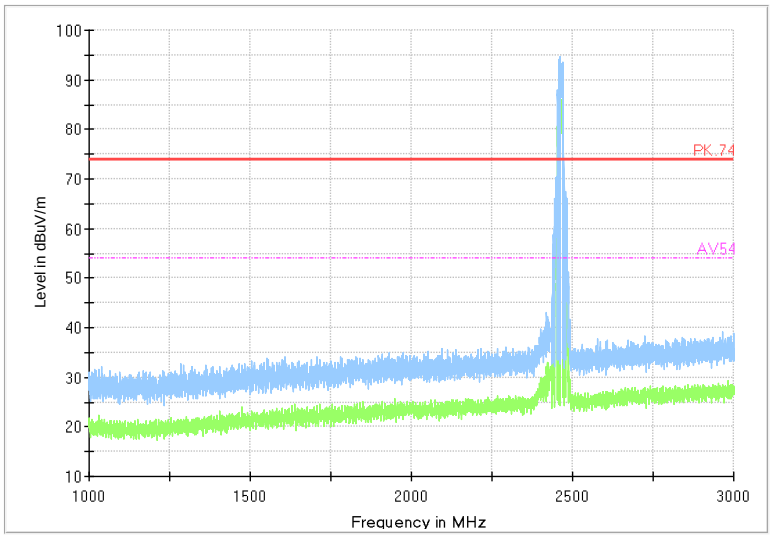
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum

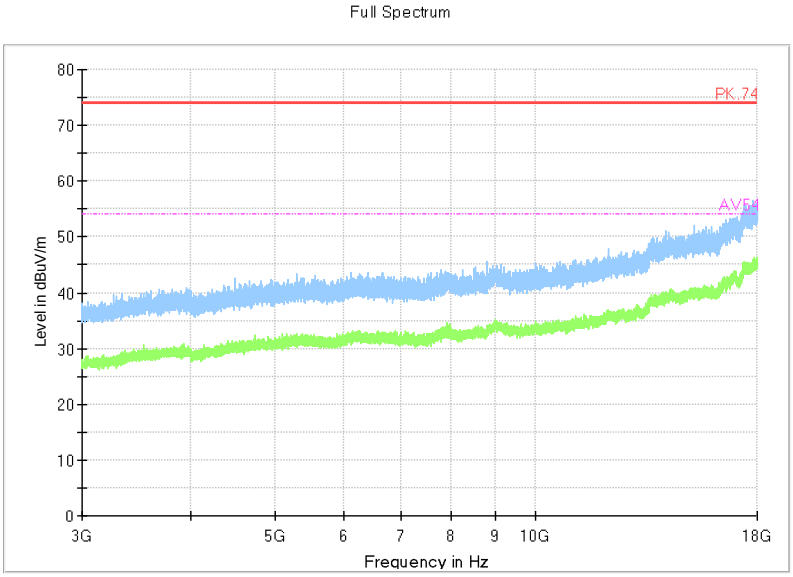


Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

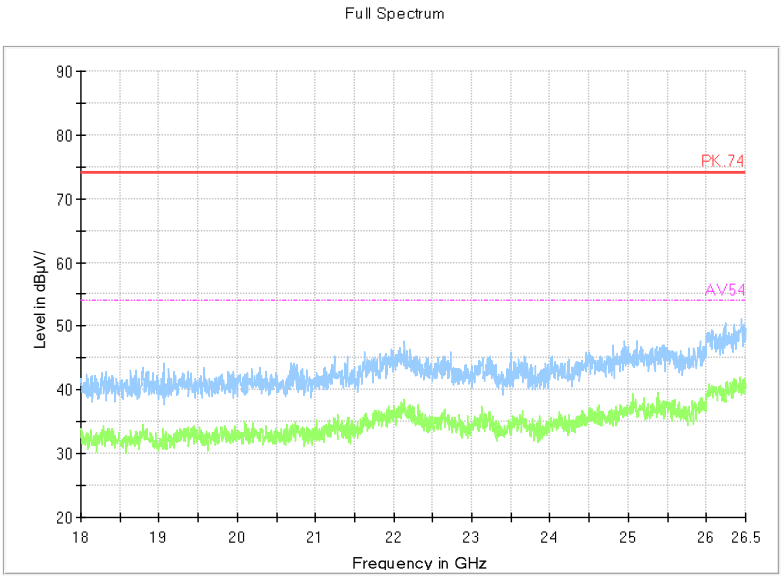
Full Spectrum



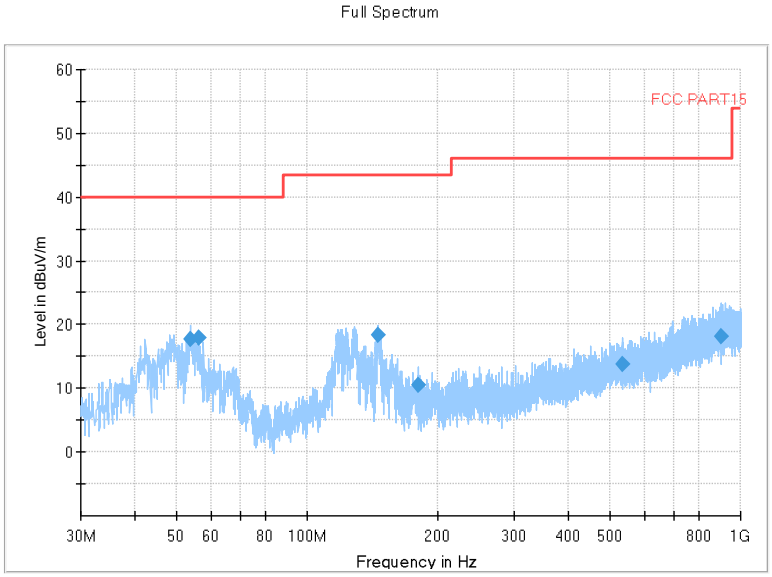
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



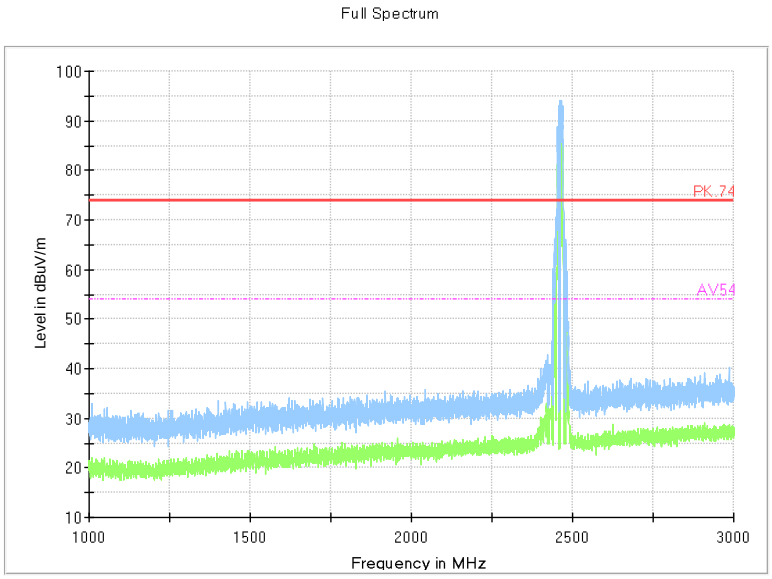
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



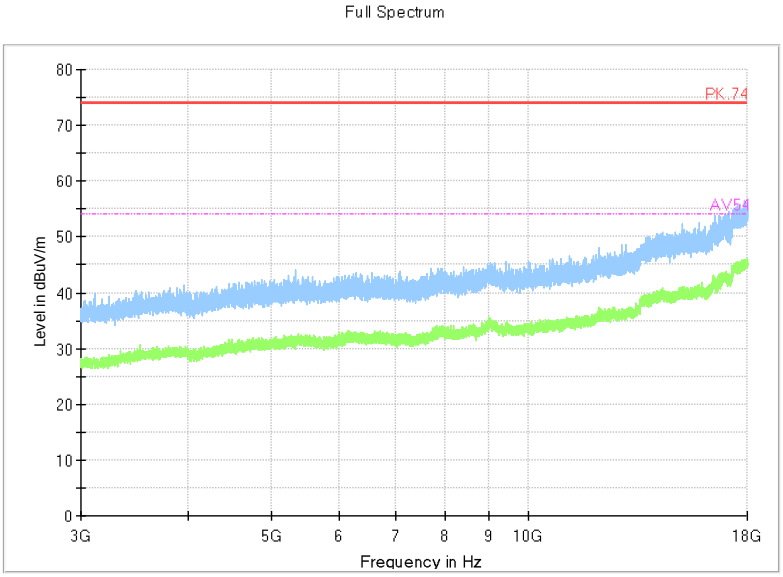
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



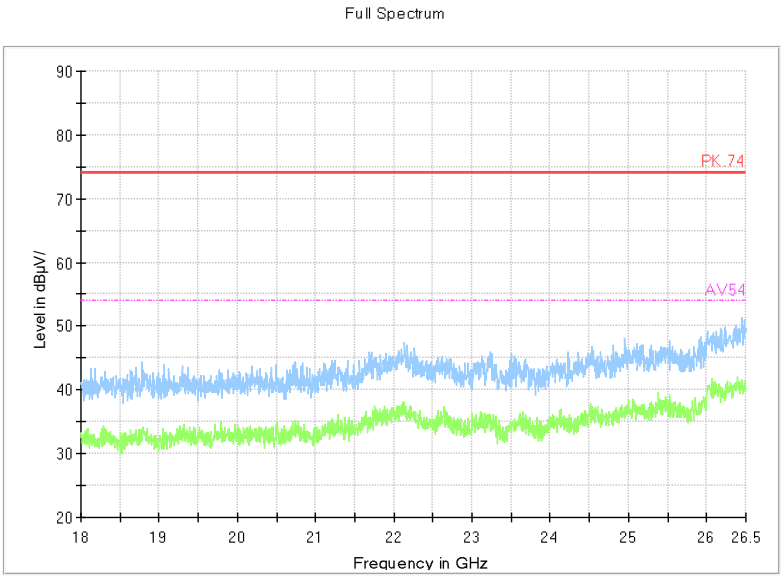
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)



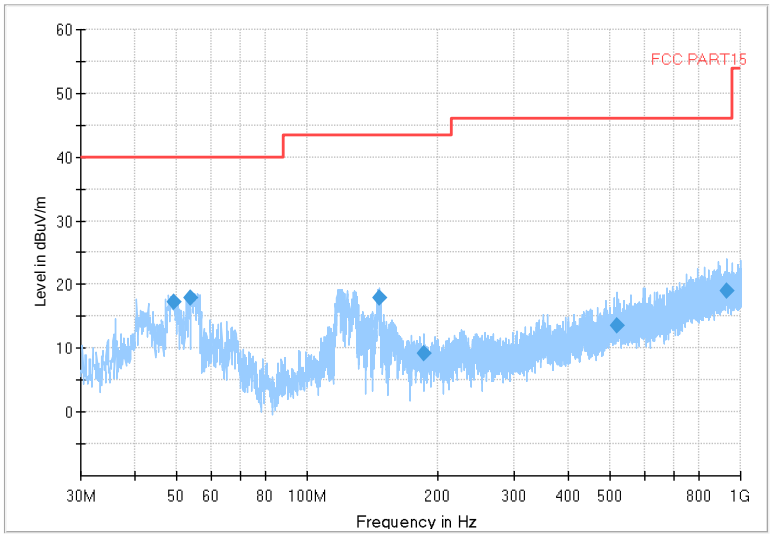
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE20)

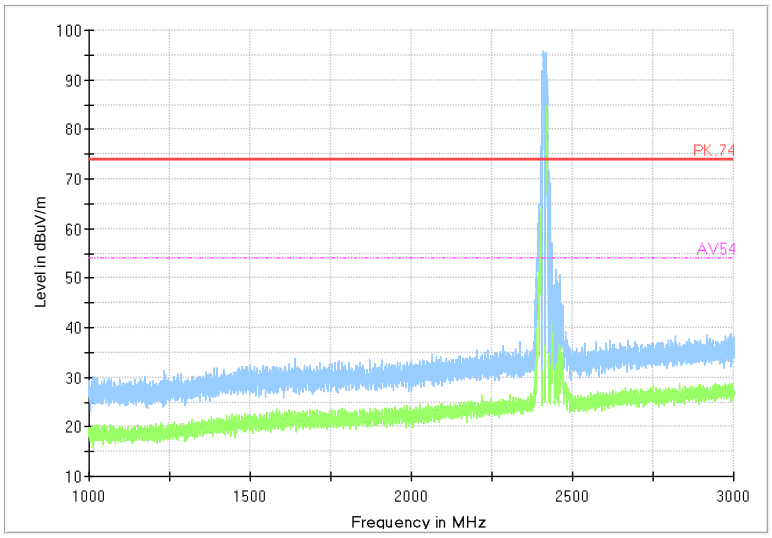
Carrier frequency (MHz): 2422
Channel No.:3

Full Spectrum

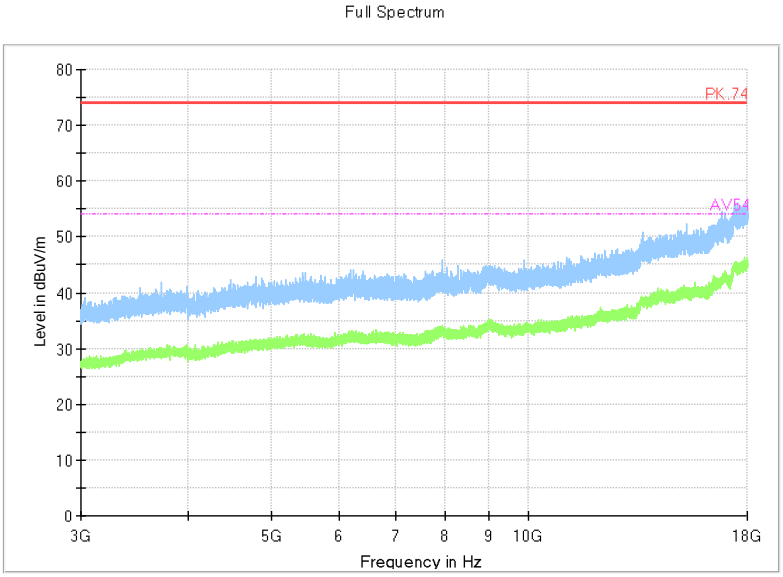


Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

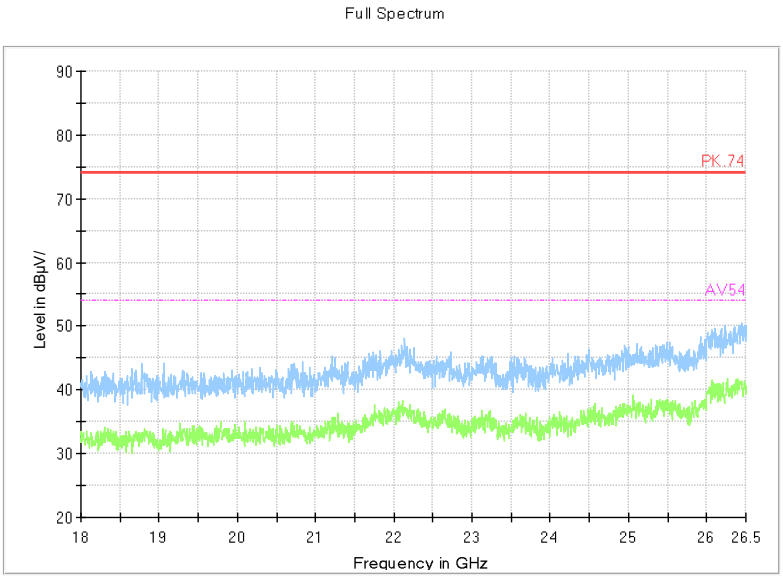
Full Spectrum



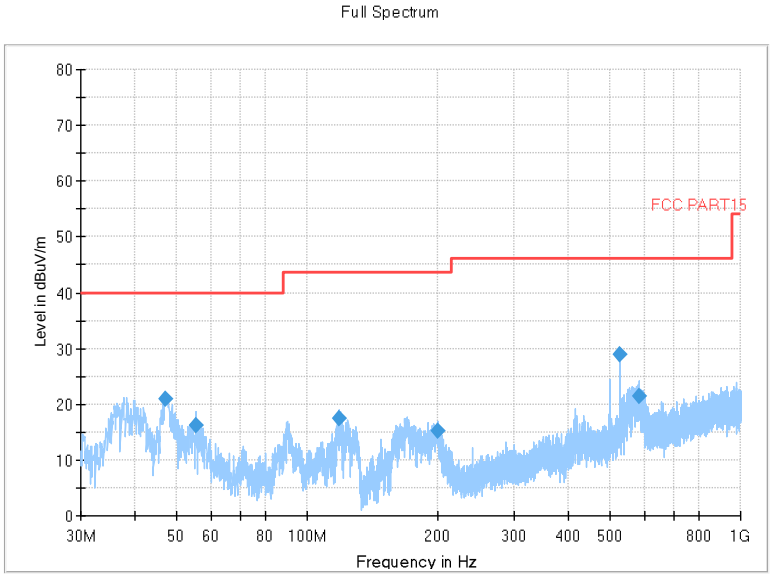
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



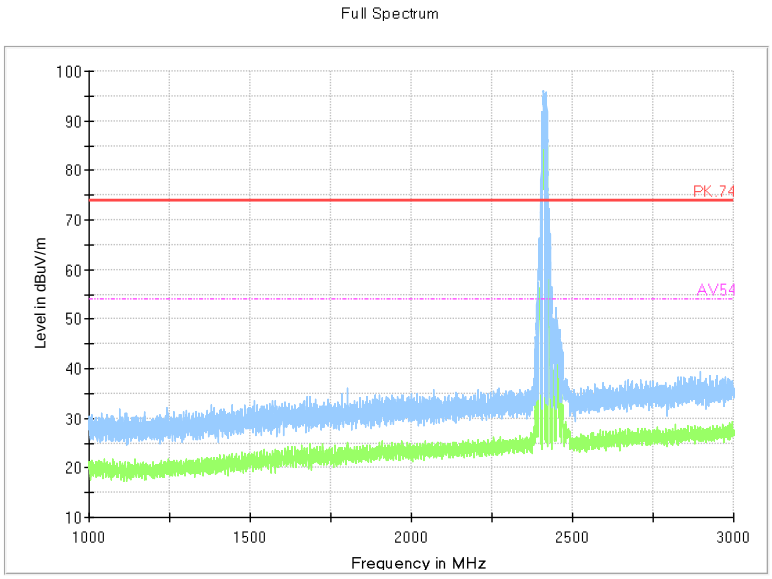
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)



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

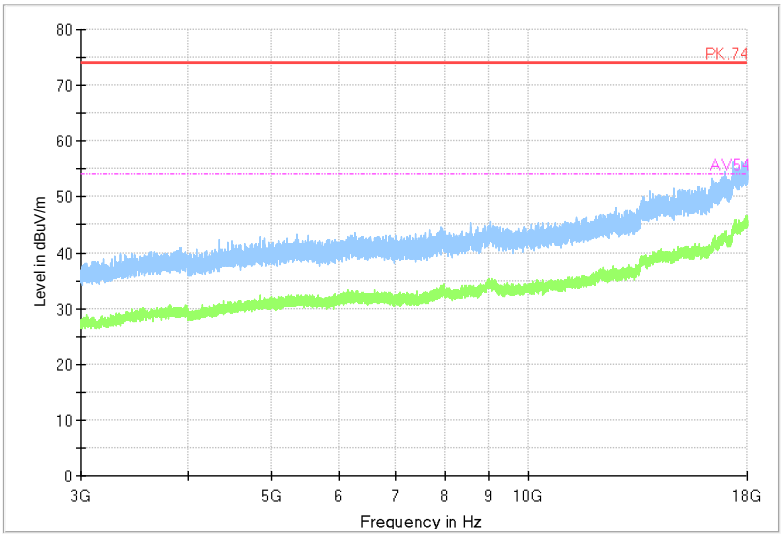


Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)



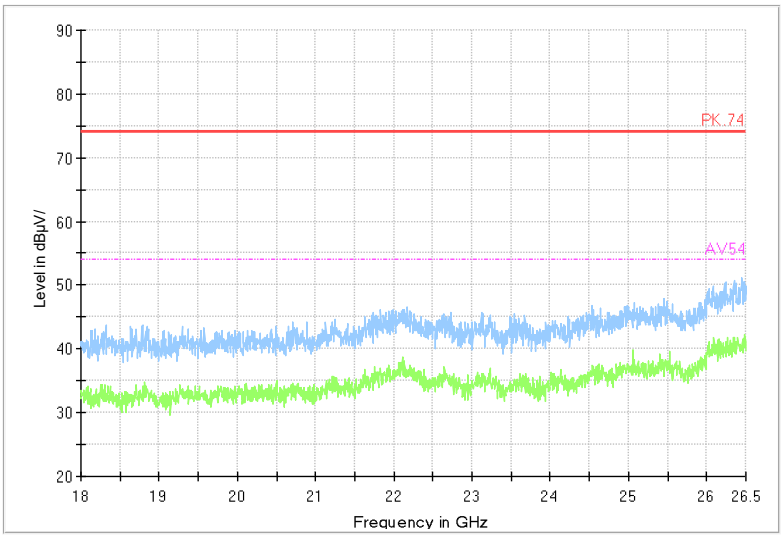
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)

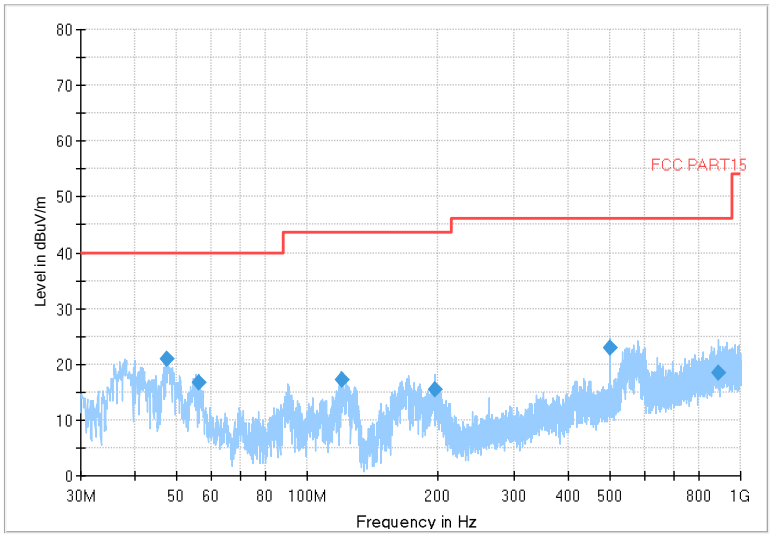
Full Spectrum



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)

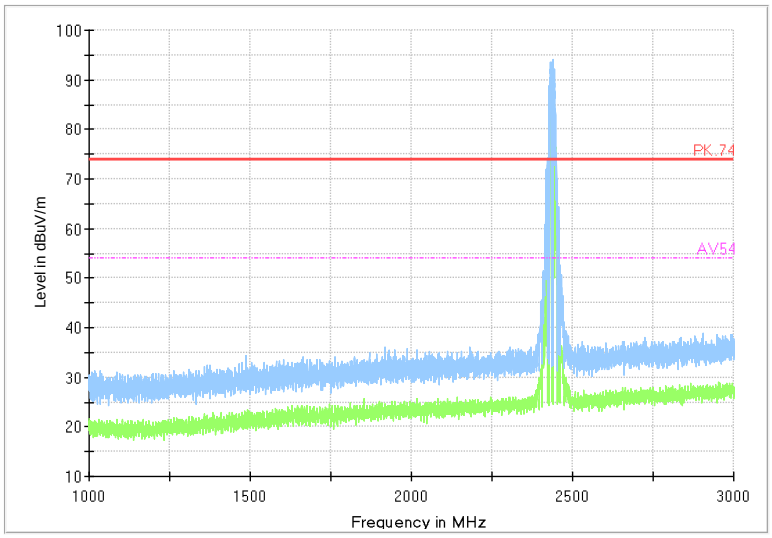
Carrier frequency (MHz): 2437
Channel No.:6

Full Spectrum



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

Full Spectrum



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