

Mode: IEEE 802.11b
 Middle Frequency (2437MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1134.2668	67.74	42.62	-25.12	74.00	31.38	100	296	Horizontal
2	1287.786	63.44	40.89	-22.55	74.00	33.11	100	31	Horizontal
3	1600.075	69.99	47.23	-22.76	74.00	26.77	100	41	Horizontal
4	2228.4036	60.90	42.59	-18.31	74.00	31.41	100	12	Horizontal
5	3198.7748	57.80	42.11	-15.69	74.00	31.89	100	35	Horizontal
6	17979.3724	37.06	47.14	10.08	74.00	26.86	200	25	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1050.0063	64.77	41.76	-23.01	74.00	32.24	100	216	Vertical
2	1600.075	71.07	47.11	-23.96	74.00	26.89	100	31	Vertical
3	2100.1375	60.43	39.88	-20.55	74.00	34.12	100	304	Vertical
4	3198.7748	58.95	42.56	-16.39	74.00	31.44	100	75	Vertical
5	4942.7428	55.20	44.02	-11.18	74.00	29.98	100	231	Vertical
6	17803.1004	36.05	47.96	11.91	74.00	26.04	100	85	Vertical

———— The following blanks ————

Mode: IEEE 802.11b
 Highest Frequency (2462MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.0203	67.07	42.38	-24.69	74.00	31.62	100	311	Horizontal
2	1599.825	72.44	49.68	-22.76	74.00	24.32	100	311	Horizontal
3	2659.4574	67.09	48.65	-18.44	74.00	25.35	100	16	Horizontal
4	3990.1238	58.83	43.46	-15.37	74.00	30.54	100	256	Horizontal
5	5979.7475	54.68	45.69	-8.99	74.00	28.31	100	275	Horizontal
6	17823.728	36.67	46.70	10.03	74.00	27.30	100	129	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.1489	-22.76	67.43	44.67	54.00	9.33	121	34	Horizontal
2	2654.3771	-18.44	49.31	30.87	54.00	23.13	100	18.3	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	74.10	49.86	-24.24	74.00	24.14	100	15	Vertical
2	1330.0413	73.93	51.32	-22.61	74.00	22.68	100	15	Vertical
3	1663.5829	69.62	47.17	-22.45	74.00	26.83	200	63	Vertical
4	1999.625	66.33	45.85	-20.48	74.00	28.15	100	309	Vertical
5	2661.7077	64.62	46.91	-17.71	74.00	27.09	100	54	Vertical
6	17831.2289	33.95	45.82	11.87	74.00	27.18	100	256	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1166.6631	-24.24	57.90	33.66	54.00	20.34	100	24.8	Vertical
2	1327.3661	-22.61	52.08	29.47	54.00	24.53	101	15.9	Vertical

———— The following blanks ————

Mode: IEEE 802.11g
 Lowest Frequency (2412MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1133.7667	67.30	42.17	-25.13	74.00	31.83	100	310	Horizontal
2	1333.0416	65.86	42.76	-23.10	74.00	31.24	200	105	Horizontal
3	1599.825	68.81	46.05	-22.76	74.00	27.95	100	310	Horizontal
4	2379.4224	73.02	52.91	-20.11	74.00	21.09	100	65	Horizontal
5	2593.4492	64.16	45.88	-18.28	74.00	28.12	100	213	Horizontal
6	17636.2045	39.09	47.60	8.51	74.00	26.40	100	198	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2598.816	-18.28	47.44	29.16	54.00	24.84	115	171.9	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.5203	70.63	46.42	-24.21	74.00	27.58	100	44	Vertical
2	1329.2912	69.88	47.25	-22.63	74.00	26.75	100	338	Vertical
3	1663.3329	69.75	47.30	-22.45	74.00	26.70	200	34	Vertical
4	2376.4221	73.24	54.44	-18.80	74.00	19.56	200	281	Vertical
5	2661.7077	69.20	51.49	-17.71	74.00	22.51	100	54	Vertical
6	17508.6886	37.63	47.11	9.48	74.00	26.89	100	343	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.07	-18.80	57.10	38.30	54.00	15.70	146	278.2	Vertical
2	2655.4292	-17.71	48.48	30.77	54.00	23.23	101	43.2	Vertical

———— The following blanks ————

Mode: IEEE 802.11g
 Middle Frequency (2437MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1195.5244	71.23	47.21	-24.02	74.00	26.79	100	54	Horizontal
2	1600.325	69.98	47.22	-22.76	74.00	26.78	100	44	Horizontal
3	2379.1724	72.72	52.60	-20.12	74.00	21.40	100	73	Horizontal
4	2654.2068	64.68	46.23	-18.45	74.00	27.77	100	15	Horizontal
5	2996.9996	64.04	46.88	-17.16	74.00	27.12	200	360	Horizontal
6	17902.4878	36.85	46.33	9.48	74.00	27.67	100	51	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.8965	-20.12	52.94	32.82	54.00	21.18	100	274.5	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1160.7701	69.36	45.19	-24.17	74.00	28.81	100	16	Vertical
2	1327.2909	69.33	46.63	-22.70	74.00	27.37	100	16	Vertical
3	1663.5829	68.92	46.47	-22.45	74.00	27.53	100	67	Vertical
4	2378.9224	74.06	55.23	-18.83	74.00	18.77	100	281	Vertical
5	2656.7071	65.47	47.70	-17.77	74.00	26.30	100	184	Vertical
6	17992.4991	34.83	47.97	13.14	74.00	26.03	100	187	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.0948	-18.83	56.32	37.49	54.00	16.51	140	269.9	Vertical

———— The following blanks ————

Mode: IEEE 802.11g
 Highest Frequency (2462MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	69.85	45.21	-24.64	74.00	28.79	200	58	Horizontal
2	1600.075	69.56	46.80	-22.76	74.00	27.20	100	66	Horizontal
3	2501.1876	74.49	55.84	-18.65	74.00	18.16	200	66	Horizontal
4	2666.7083	64.30	45.88	-18.42	74.00	28.12	100	115	Horizontal
5	3198.7748	59.55	43.86	-15.69	74.00	30.14	100	134	Horizontal
6	17634.3293	38.69	47.15	8.46	74.00	26.85	100	17	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2499.3057	-18.65	55.54	36.89	54.00	17.11	164	79.1	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1161.0201	70.46	46.29	-24.17	74.00	27.71	100	31	Vertical
2	1331.5414	68.42	45.85	-22.57	74.00	28.15	100	345	Vertical
3	1664.5831	68.67	46.25	-22.42	74.00	27.75	200	41	Vertical
4	2497.4372	74.37	54.82	-19.55	74.00	19.18	100	296	Vertical
5	3995.7495	61.28	46.19	-15.09	74.00	27.81	100	16	Vertical
6	17645.5807	37.40	47.04	9.64	74.00	26.96	200	360	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2496.714	-19.55	55.16	35.61	54.00	18.39	148	121.2	Vertical

———— The following blanks ————

Mode: IEEE 802.11n HT20
 Lowest Frequency (2412MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1217.7772	66.24	43.03	-23.21	74.00	30.97	100	310	Horizontal
2	1599.825	66.81	44.05	-22.76	74.00	29.95	100	310	Horizontal
3	1666.0833	67.48	44.39	-23.09	74.00	29.61	100	153	Horizontal
4	2382.9229	69.05	48.95	-20.10	74.00	25.05	100	321	Horizontal
5	3198.7748	60.32	44.63	-15.69	74.00	29.37	100	22	Horizontal
6	17283.6605	40.59	47.92	7.33	74.00	26.08	100	315	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.3023	-20.10	52.70	32.60	54.00	21.40	100	273.8	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1161.5202	69.43	45.25	-24.18	74.00	28.75	100	25	Vertical
2	1328.291	67.92	45.25	-22.67	74.00	28.75	100	16	Vertical
3	1600.075	69.83	45.87	-23.96	74.00	28.13	100	45	Vertical
4	2384.6731	71.38	52.50	-18.88	74.00	21.50	200	279	Vertical
5	3997.6247	61.66	46.57	-15.09	74.00	27.43	100	228	Vertical
6	17495.5619	37.88	47.25	9.37	74.00	26.75	200	345	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.3597	-18.88	54.78	35.90	54.00	18.10	138	270.7	Vertical

———— The following blanks ————

Mode: IEEE 802.11n HT20
 Middle Frequency (2437 MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	68.46	43.82	-24.64	74.00	30.18	200	52	Horizontal
2	1600.075	68.65	45.89	-22.76	74.00	28.11	100	71	Horizontal
3	2516.6896	63.28	44.68	-18.60	74.00	29.32	100	62	Horizontal
4	3198.7748	59.25	43.56	-15.69	74.00	30.44	100	135	Horizontal
5	3986.3733	60.42	45.06	-15.36	74.00	28.94	100	15	Horizontal
6	17891.2364	38.05	47.62	9.57	74.00	26.38	100	270	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.5411	68.18	45.52	-22.66	74.00	28.48	100	344	Vertical
2	1600.075	70.23	46.27	-23.96	74.00	27.73	100	31	Vertical
3	1664.333	67.94	45.52	-22.42	74.00	28.48	200	50	Vertical
4	2661.7077	61.78	44.07	-17.71	74.00	29.93	100	81	Vertical
5	3990.1238	61.70	46.63	-15.07	74.00	27.37	100	102	Vertical
6	17838.7298	34.65	46.50	11.85	74.00	27.50	100	239	Vertical

———— The following blanks ————

Mode: IEEE 802.11n HT20
 Highest Frequency (2462MHz)
 Environment: 22.9°C/58%RH/101.0kPa
 Tested By:Zhang Zishan

Date: 2022-12-03
 Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1166.7708	68.16	43.57	-24.59	74.00	30.43	100	344	Horizontal
2	1600.325	67.93	45.17	-22.76	74.00	28.83	100	37	Horizontal
3	2496.187	70.15	51.43	-18.72	74.00	22.57	100	206	Horizontal
4	3198.7748	59.41	43.72	-15.69	74.00	30.28	100	134	Horizontal
5	3993.8742	59.10	43.72	-15.38	74.00	30.28	100	134	Horizontal
6	17977.4972	36.99	47.01	10.02	74.00	26.99	200	301	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2495.5371	-18.72	54.36	35.64	54.00	18.36	100	65.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1331.7915	66.50	43.94	-22.56	74.00	30.06	100	344	Vertical
2	1600.075	70.45	46.49	-23.96	74.00	27.51	100	42	Vertical
3	1990.6238	66.36	45.60	-20.76	74.00	28.40	100	344	Vertical
4	2500.1875	71.04	51.49	-19.55	74.00	22.51	100	297	Vertical
5	2659.7075	64.77	47.04	-17.73	74.00	26.96	100	42	Vertical
6	17827.4784	33.54	45.42	11.88	74.00	27.58	100	338	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2495.3026	-19.55	53.42	33.87	54.00	20.13	101	343.2	Vertical

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18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11g)

The peak test results is less than the average limits, so the average test results had not reported.

Mode: IEEE 802.11g

Lowest Frequency (2412MHz)

Environment: 21.8°C/55%RH/101.0kPa

Tested By: Zhang Zishan

Date: 2022-12-14

Voltage: DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18592.025	54.23	42.11	-12.12	83.54	41.43	100	291	Horizontal
2	19116.475	54.35	42.63	-11.72	83.54	40.91	100	359	Horizontal
3	21282.7	52.86	42.87	-9.99	83.54	40.67	100	84	Horizontal
4	22884.95	51.02	42.33	-8.69	83.54	41.21	100	245	Horizontal
5	24815.3	50.76	43.28	-7.48	83.54	40.26	100	15	Horizontal
6	25891.825	50.19	42.24	-7.95	83.54	41.30	100	222	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18648.975	53.55	41.53	-12.02	83.54	42.01	100	46	Vertical
2	19569.525	53.38	42.07	-11.31	83.54	41.47	100	276	Vertical
3	20722.975	52.83	42.71	-10.12	83.54	40.83	100	230	Vertical
4	22881.55	51.54	42.85	-8.69	83.54	40.69	100	67	Vertical
5	24937.275	50.64	43.38	-7.26	83.54	40.16	100	160	Vertical
6	26208.875	49.88	42.42	-7.46	83.54	41.12	100	116	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

———— The following blanks ————

Mode: IEEE 802.11g
 Middle Frequency (2437MHz)
 Environment: 21.8°C/55%RH/101.0kPa
 Tested By: Zhang Zishan

Date: 2022-12-14
 Voltage: DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18586.925	54.09	41.97	-12.12	83.54	41.57	100	85	Horizontal
2	19439.9	53.45	41.98	-11.47	83.54	41.56	100	227	Horizontal
3	21179.85	53.77	43.71	-10.06	83.54	39.83	100	111	Horizontal
4	22837.35	51.20	42.48	-8.72	83.54	41.06	100	15	Horizontal
5	25124.7	49.97	42.80	-7.17	83.54	40.74	100	134	Horizontal
6	26431.575	49.79	42.61	-7.18	83.54	40.93	100	38	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18571.625	53.54	41.47	-12.07	83.54	42.07	100	131	Vertical
2	19511.3	54.34	42.93	-11.41	83.54	40.61	100	109	Vertical
3	21118.65	52.97	42.99	-9.98	83.54	40.55	100	299	Vertical
4	22794	51.31	42.58	-8.73	83.54	40.96	100	86	Vertical
5	25166.35	49.90	42.88	-7.02	83.54	40.66	100	299	Vertical
6	26162.125	49.51	41.94	-7.57	83.54	41.60	100	109	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

———— The following blanks ————

Mode: IEEE 802.11g
 Highest Frequency (2462MHz)
 Environment: 21.8°C/55%RH/101.0kPa
 Tested By: Zhang Zishan

Date: 2022-12-14
 Voltage: DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18544.85	53.23	41.06	-12.17	83.54	42.48	100	302	Horizontal
2	19408.45	53.72	42.23	-11.49	83.54	41.31	100	63	Horizontal
3	21251.675	52.96	42.95	-10.01	83.54	40.59	100	278	Horizontal
4	22965.7	51.02	42.37	-8.65	83.54	41.17	100	16	Horizontal
5	24448.1	51.53	43.66	-7.87	83.54	39.88	100	278	Horizontal
6	25955.575	50.38	42.36	-8.02	83.54	41.18	100	134	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18624.325	54.04	42.01	-12.03	83.54	41.53	100	138	Vertical
2	19523.2	53.45	42.06	-11.39	83.54	41.48	100	345	Vertical
3	21220.65	52.71	42.77	-9.94	83.54	40.77	100	69	Vertical
4	22997.15	51.15	42.51	-8.64	83.54	41.03	100	254	Vertical
5	23825.05	51.96	43.49	-8.47	83.54	40.05	100	69	Vertical
6	25559.9	49.92	42.49	-7.43	83.54	41.05	100	231	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

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6. 6dB BANDWIDTH

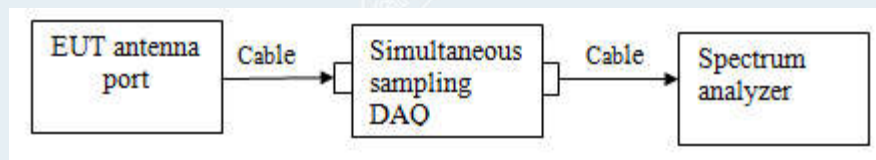
6.1 LIMITS

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Set resolution bandwidth (RBW) = 100kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
- 3) Repeat above procedures until all frequencies measured were complete.

6.3 TEST SETUP



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6.4 TEST RESULTS

Environment: 24.2°C/49%RH/101.0kPa

Voltage:DC 12V

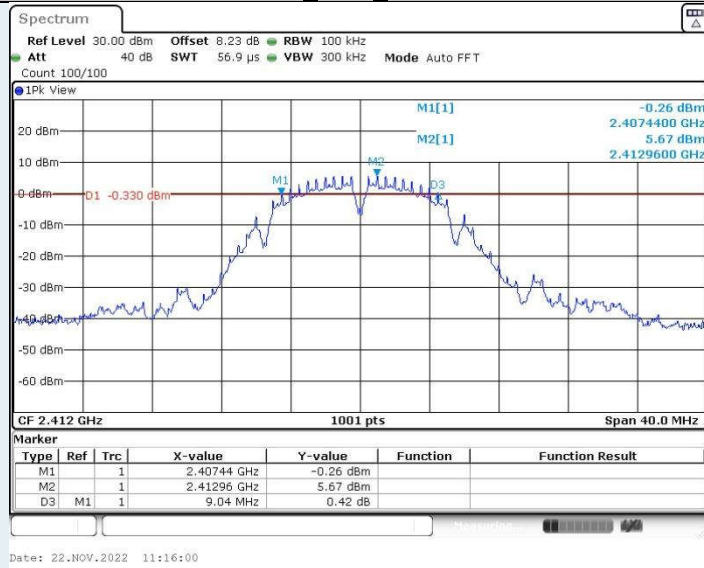
Tested By:Yang Zhaoyun

Date: 2022-11-22

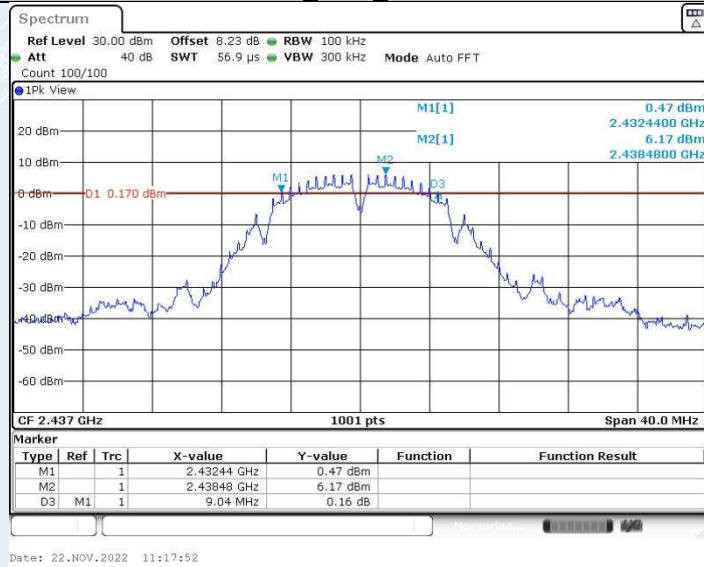
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	9.04	≥ 0.5	PASS
		2437	9.04	≥ 0.5	PASS
		2462	9.04	≥ 0.5	PASS
802.11g	Ant1	2412	16.36	≥ 0.5	PASS
		2437	16.36	≥ 0.5	PASS
		2462	16.36	≥ 0.5	PASS
802.11n HT20	Ant1	2412	17.56	≥ 0.5	PASS
		2437	17.60	≥ 0.5	PASS
		2462	17.56	≥ 0.5	PASS

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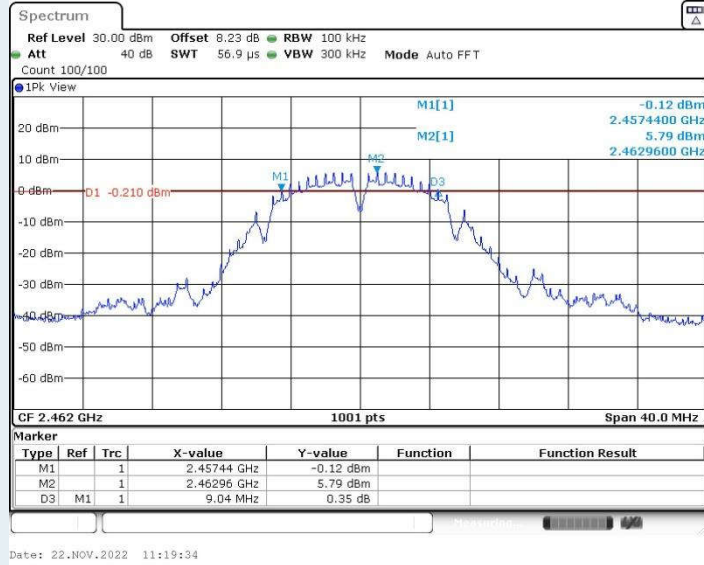
802.11b Ant1 2412MHz



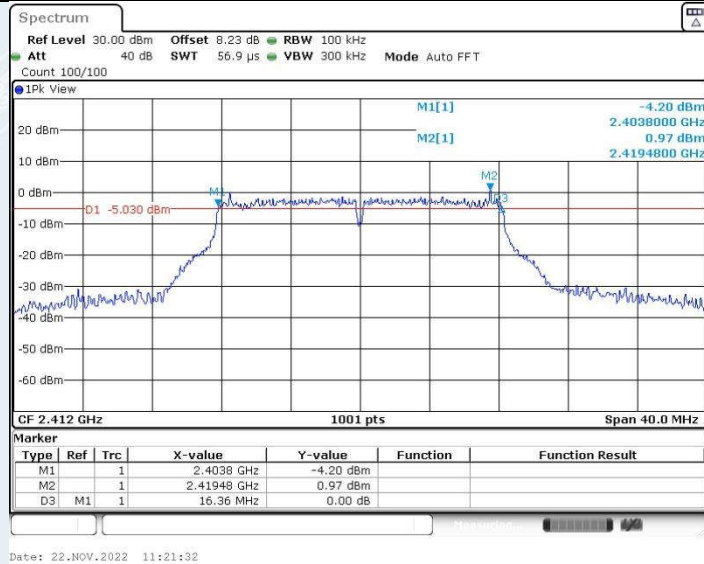
802.11b Ant1 2437MHz



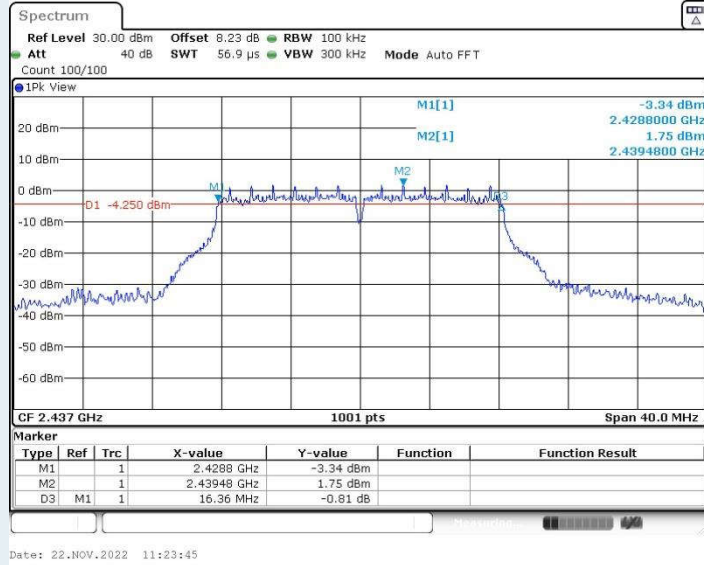
802.11b_Ant1_2462MHz



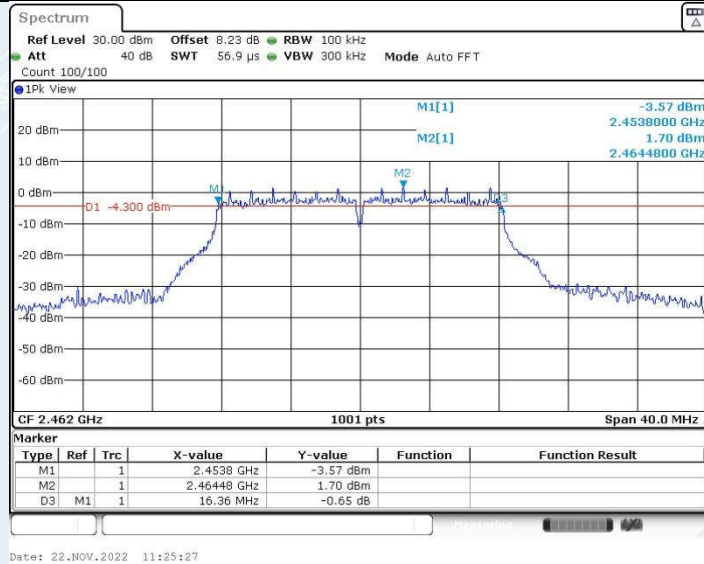
802.11g_Ant1_2412MHz



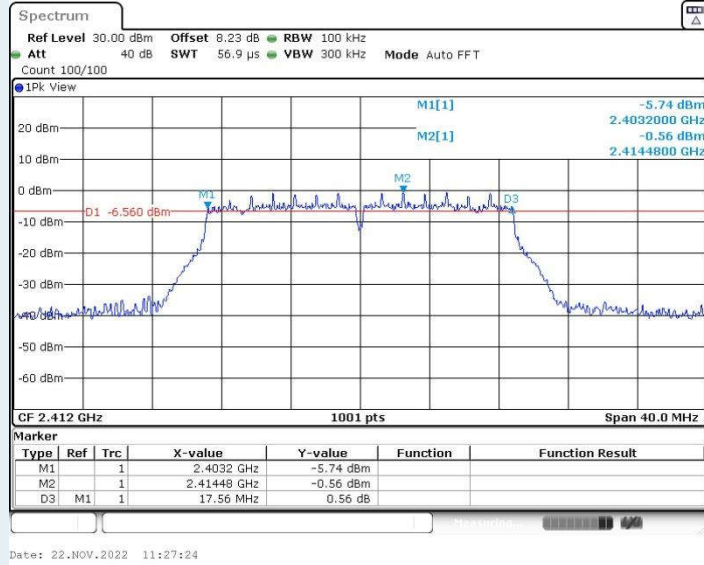
802.11g_Ant1_2437MHz



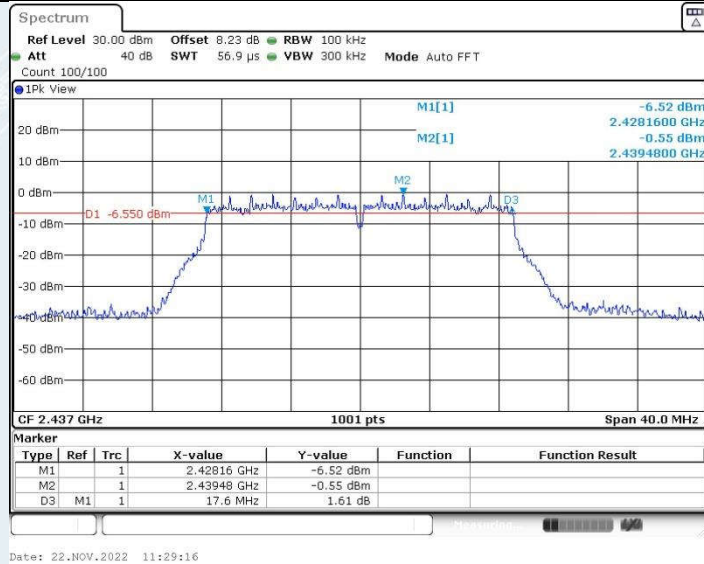
802.11g_Ant1_2462MHz

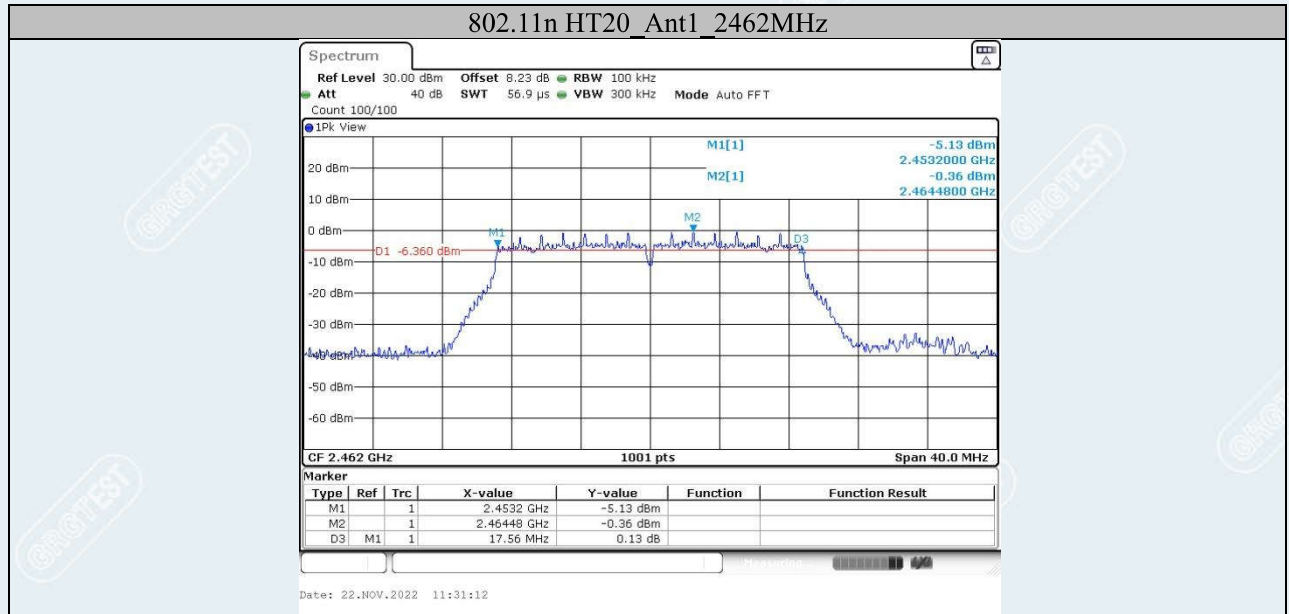


802.11n HT20_Ant1_2412MHz



802.11n HT20_Ant1_2437MHz





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7. MAXIMUM PEAK OUTPUT POWER

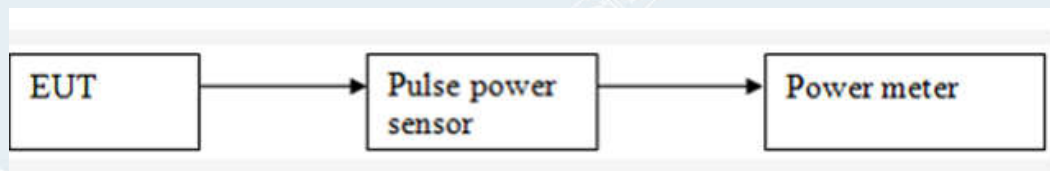
7.1 LIMITS

The maximum Peak output power measurement is 1W

7.2 TEST PROCEDURES

- 1) RF output of EUT was connected to the broadband peak RF power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Measure the conducted output power and record the results in the test report.

7.3 TEST SETUP



----- The following blanks -----

7.4 TEST RESULT

Environment: 24.2°C/49%RH/101.0kPa
 Tested By: Yang Zhaoyun

Voltage: DC 12V
 Date: 2022-11-22

802.11b Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	20.32	Peak	30dBm	Pass
6	2437	20.44			Pass
11	2462	20.58			Pass

802.11g Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	24.55	Peak	30dBm	Pass
6	2437	24.58			Pass
11	2462	24.58			Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak/ AVG	Limit	Result
1	2412	24.23	Peak	30dBm	Pass
6	2437	24.38			Pass
11	2462	24.24			Pass

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8. POWER SPECTRAL DENSITY

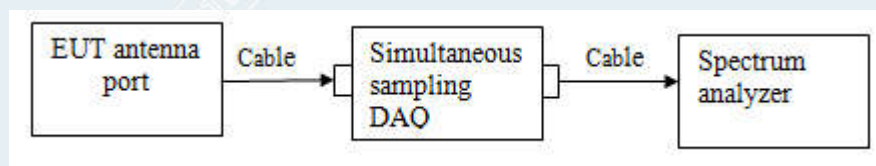
8.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

8.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3) The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:
 - a) Set analyzer center frequency to DTS channel center frequency.
 - b) Set the span to 1.5 times the DTS bandwidth.
 - c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = peak
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- 4) Repeat above procedures until all frequencies measured were complete.

8.3 TEST SETUP



———— The following blanks ————

8.4 TEST RESULTS

Environment: 24.2°C/49%RH/101.0kPa
Tested By: Yang Zhaoyun

Voltage: DC 12V
Date: 2022-11-22

802.11b Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-7.97	8.00	Pass
6	2437	-7.38	8.00	Pass
11	2462	-7.88	8.00	Pass

802.11g Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-12.20	8.00	Pass
6	2437	-11.48	8.00	Pass
11	2462	-11.83	8.00	Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-14.32	8.00	Pass
6	2437	-13.56	8.00	Pass
11	2462	-13.73	8.00	Pass

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