Mode: IEEE 802.11g-Ant 2
Highest Frequency (2462MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-16
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1736.0920	63.13	40.71	-22.42	74.00	33.29	200	217	Horizontal
2	2700.2125	64.37	45.98	-18.39	74.00	28.02	200	160	Horizontal
3	3686.3358	59.36	44.56	-14.80	74.00	29.44	200	180	Horizontal
4	4922.1153	68.37	58.30	-10.07	74.00	15.70	200	0	Horizontal
5	5400.3000	56.37	45.87	-10.50	74.00	28.13	200	254	Horizontal
6	7388.0485	50.26	46.76	-3.50	74.00	27.24	200	196	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	4925.4131	-10.07	59.60	49.53	54.00	4.47	188	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	1003.2504	65.64	40.49	-25.15	74.00	33.51	200	194	Vertical
2	1456.5571	62.94	39.82	-23.12	74.00	34.18	200	160	Vertical
3	1743.8430	64.15	41.72	-22.43	74.00	32.28	200	183	Vertical
4	3283.1604	60.07	43.98	-16.09	74.00	30.02	200	242	Vertical
5	4925.8657	62.23	52.16	-10.07	74.00	21.84	200	101	Vertical
6	7397.4247	51.61	48.17	-3.44	74.00	25.83	200	153	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	4925.8657	-10.07	50.51	40.44	54.00	13.56	200	102	Vertical

Mode: IEEE 802.11n HT20
Lowest Frequency (2412MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-16
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1598.0000	72.63	49.71	-22.92	74.00	24.29	200	124	Horizontal
2	1985.8000	70.26	48.60	-21.66	74.00	25.40	100	1	Horizontal
3	2385.6000	81.67	61.59	-20.08	74.00	12.41	200	350	Horizontal
4	2699.6000	63.82	45.43	-18.39	74.00	28.57	200	158	Horizontal
5	4827.0000	60.31	50.61	-9.70	74.00	23.39	200	2	Horizontal
6	7234.5000	57.08	53.57	-3.51	74.00	20.43	100	99	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	2388.0452	-20.08	62.87	42.79	54.00	11.21	190	340	Horizontal
2	7234.1383	-3.51	45.32	41.81	54.00	12.19	200	95	Horizontal
3	4824.1038	-9.70	49.41	39.71	54.00	14.29	200	15	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	1596.4000	75.10	52.19	-22.91	74.00	21.81	200	96	Vertical
2	2387.8000	82.78	62.73	-20.05	74.00	11.27	200	253	Vertical
3	3216.0000	60.95	44.87	-16.08	74.00	29.13	200	243	Vertical
4	4822.5000	56.67	46.96	-9.71	74.00	27.04	200	230	Vertical
5	6000.0000	55.46	47.97	-7.49	74.00	26.03	100	85	Vertical
6	7240.5000	54.83	51.25	-3.58	74.00	22.75	100	188	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	1600.3511	-22.91	50.38	27.47	54.00	26.53	197	197	Vertical
2	2381.8663	-20.05	69.48	49.43	54.00	4.57	162	281	Vertical
3	4822.5000	-9.72	45.94	36.22	54.00	17.78	152	217	Vertical
4	7235.3592	-3.59	42.72	39.13	54.00	14.87	200	161	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (2437 MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-16
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1396.8000	67.56	44.05	-23.51	74.00	29.95	100	14	Horizontal
2	1593.2000	74.10	51.19	-22.91	74.00	22.81	100	55	Horizontal
3	3672.0000	58.64	43.87	-14.77	74.00	30.13	200	182	Horizontal
4	4872.0000	59.30	49.49	-9.81	74.00	24.51	200	356	Horizontal
5	7303.5000	55.40	50.98	-4.42	74.00	23.02	100	100	Horizontal
6	9997.5000	44.21	46.05	1.84	74.00	27.95	100	319	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	4873.8757	-9.81	47.21	37.40	54.00	16.60	174	11	Horizontal
2	7308.9776	-4.41	40.29	35.88	54.00	18.12	100	149	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	1403.8000	70.97	47.51	-23.46	74.00	26.49	200	102	Vertical
2	1596.0000	72.22	49.31	-22.91	74.00	24.69	200	102	Vertical
3	2270.8000	71.97	51.64	-20.33	74.00	22.36	200	280	Vertical
4	4875.0000	57.95	48.11	-9.84	74.00	25.89	200	127	Vertical
5	6000.0000	54.87	47.38	-7.49	74.00	26.62	100	101	Vertical
6	7311.0000	54.52	50.21	-4.31	74.00	23.79	200	161	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	4872.2700	-9.84	44.99	35.15	54.00	18.85	155	217	Vertical
2	7311.2924	-4.30	41.34	37.04	54.00	16.96	174	141	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (2462MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-16
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1596.8000	74.05	51.13	-22.92	74.00	22.87	100	41	Horizontal
2	1794.2000	67.47	45.37	-22.10	74.00	28.63	100	143	Horizontal
3	2700.0000	64.22	45.83	-18.39	74.00	28.17	200	158	Horizontal
4	3684.0000	59.80	45.00	-14.80	74.00	29.00	200	180	Horizontal
5	4924.5000	60.75	50.68	-10.07	74.00	23.32	200	5	Horizontal
6	7390.5000	54.61	51.12	-3.49	74.00	22.88	100	140	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	4924.3523	-10.07	48.77	38.70	54.00	15.30	200	2	Horizontal
2	7386.9526	-3.49	41.70	38.21	54.00	15.79	159	149	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	1392.2000	68.29	44.76	-23.53	74.00	29.24	200	75	Vertical
2	1593.8000	74.10	51.19	-22.91	74.00	22.81	100	62	Vertical
3	2296.8000	74.41	54.30	-20.11	74.00	19.70	200	287	Vertical
4	2501.4000	78.50	58.94	-19.56	74.00	15.06	200	348	Vertical
5	4927.5000	57.91	47.84	-10.07	74.00	26.16	200	202	Vertical
6	7393.5000	53.57	50.10	-3.47	74.00	23.90	200	160	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	2301.5084	-20.11	56.68	36.57	54.00	17.43	181	297	Vertical
2	2501.8878	-19.56	64.24	44.68	54.00	9.32	192	358	Vertical
3	4925.0116	-10.07	44.07	34.00	54.00	20.00	160	222	Vertical
4	7386.5871	-3.47	40.93	37.46	54.00	16.54	200	140	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-17
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1595.8000	73.37	50.46	-22.91	74.00	23.54	100	19	Horizontal
2	1995.8000	69.56	47.98	-21.58	74.00	26.02	100	32	Horizontal
3	2381.4000	80.25	60.12	-20.13	74.00	13.88	200	162	Horizontal
4	2504.6000	78.47	58.97	-19.50	74.00	15.03	200	346	Horizontal
5	4843.5000	56.71	47.08	-9.63	74.00	26.92	200	355	Horizontal
6	7255.5000	52.04	48.26	-3.78	74.00	25.74	100	102	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	2382.0073	-20.13	63.82	43.69	54.00	10.31	200	17	Horizontal
2	2503.1098	-19.50	57.85	38.35	54.00	15.65	197	358	Horizontal
3	4844.1539	-9.64	46.08	36.44	54.00	17.56	200	2	Horizontal
4	7270.6640	-3.77	38.97	35.20	54.00	18.80	153	150	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	1598.0000	72.92	50.00	-22.92	74.00	24.00	100	58	Vertical
2	2381.4000	84.84	64.71	-20.13	74.00	9.29	200	271	Vertical
3	3580.5000	59.48	44.52	-14.96	74.00	29.48	200	220	Vertical
4	4845.0000	54.66	45.03	-9.63	74.00	28.97	200	206	Vertical
5	6000.0000	54.69	47.20	-7.49	74.00	26.80	200	76	Vertical
6	7258.5000	51.27	47.45	-3.82	74.00	26.55	200	172	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	2381.2214	-20.13	70.76	50.63	54.00	3.37	140	280	Vertical
2	4845.0242	-9.63	43.65	34.02	54.00	19.98	161	213	Vertical
3	7270.6217	-3.83	40.86	37.03	54.00	16.97	156	147	Vertical

Mode: IEEE 802.11n HT40
Middle Frequency (2437 MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-17
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1388.4000	67.56	44.01	-23.55	74.00	29.99	100	11	Horizontal
2	1594.4000	74.42	51.51	-22.91	74.00	22.49	100	121	Horizontal
3	2383.2000	79.15	59.05	-20.10	74.00	14.95	200	19	Horizontal
4	2699.8000	64.14	45.75	-18.39	74.00	28.25	200	156	Horizontal
5	4876.5000	55.85	46.00	-9.85	74.00	28.00	200	27	Horizontal
6	7312.5000	52.78	48.50	-4.28	74.00	25.50	100	117	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	2378.9937	-20.10	61.15	41.05	54.00	12.95	195	18	Horizontal
2	4874.0618	-9.85	45.11	35.26	54.00	18.74	200	11	Horizontal
3	7306.8328	-4.28	39.81	35.53	54.00	18.47	114	148	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	1594.8000	75.03	52.12	-22.91	74.00	21.88	200	79	Vertical
2	2375.4000	79.99	59.79	-20.20	74.00	14.21	200	311	Vertical
3	2800.6000	65.12	46.66	-18.46	74.00	27.34	100	79	Vertical
4	2999.2000	65.39	47.73	-17.66	74.00	26.27	100	58	Vertical
5	4881.0000	54.42	44.52	-9.90	74.00	29.48	100	172	Vertical
6	7311.0000	51.78	47.47	-4.31	74.00	26.53	200	179	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	1595.9323	-22.92	51.42	28.50	54.00	25.50	142	168	Vertical
2	2377.7754	-20.20	66.65	46.45	54.00	7.55	170	309	Vertical
3	7306.2113	-4.30	40.75	36.45	54.00	17.55	121	188	Vertical

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 25℃/60%RH
Tested By: Chen XiaoCong

Date: 2021-12-17
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	63.80	38.65	-25.15	74.00	35.35	100	121	Horizontal
2	1182.2728	65.50	40.95	-24.55	74.00	33.05	200	135	Horizontal
3	1742.5928	63.80	41.37	-22.43	74.00	32.63	200	217	Horizontal
4	2699.9625	63.67	45.28	-18.39	74.00	28.72	200	152	Horizontal
5	4905.2382	57.77	47.70	-10.07	74.00	26.30	200	4	Horizontal
6	7348.6686	51.60	47.86	-3.74	74.00	26.14	100	128	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	4904.1590	-10.07	48.48	38.41	54.00	15.59	193	1	Horizontal
2	7349.6974	-3.74	39.45	35.71	54.00	18.29	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	1002.5003	65.15	39.99	-25.16	74.00	34.01	200	192	Vertical
2	1467.0584	63.31	40.24	-23.07	74.00	33.76	200	159	Vertical
3	1743.8430	63.99	41.56	-22.43	74.00	32.44	200	184	Vertical
4	3673.2092	58.31	43.54	-14.77	74.00	30.46	200	225	Vertical
5	4905.2382	55.68	45.61	-10.07	74.00	28.39	200	184	Vertical
6	7356.1695	51.00	47.32	-3.68	74.00	26.68	200	176	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	4904.8948	-10.07	46.23	36.16	54.00	17.84	152	182	Vertical
2	7354.0362	-3.68	39.46	35.78	54.00	18.22	184	179	Vertical

18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11g-Ant 2)
The peak test results is less than the average limits, so the average test results had not reported.

Mode: IEEE 802.11g-Ant 2
Lowest Frequency (2412MHz) Date: 2021-12-14
Environment: 25℃/60%RH Voltage: AC120V/60Hz
Tested By: Lu Qiang

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18792.6250	58.34	47.05	-11.29	83.54	36.49	150	118	Horizontal
2	19501.1000	58.02	47.10	-10.92	83.54	36.44	150	242	Horizontal
3	20879.3750	56.65	46.34	-10.31	83.54	37.20	150	354	Horizontal
4	22359.6500	56.04	46.51	-9.53	83.54	37.03	150	335	Horizontal
5	23921.5250	56.25	47.91	-8.34	83.54	35.63	150	283	Horizontal
6	26301.1000	55.81	48.12	-7.69	83.54	35.42	150	263	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	18283.9000	59.47	47.90	-11.57	83.54	35.64	150	211	Vertical
2	20047.2250	57.19	46.37	-10.82	83.54	37.17	150	15	Vertical
3	22098.7000	56.39	46.54	-9.85	83.54	37.00	150	253	Vertical
4	23863.3000	56.36	47.96	-8.40	83.54	35.58	150	284	Vertical
5	24434.5000	56.16	48.01	-8.15	83.54	35.53	150	315	Vertical
6	26406.9250	55.77	48.30	-7.47	83.54	35.24	150	77	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-Ant 2
Middle Frequency (2437MHz)
Environment: 25℃/60%RH
Tested By: Lu Qiang

Date: 2021-12-14
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18357.4250	58.84	47.30	-11.54	83.54	36.24	150	304	Horizontal
2	19496.0000	58.30	47.38	-10.92	83.54	36.16	150	160	Horizontal
3	21607.8250	56.36	46.44	-9.92	83.54	37.10	150	36	Horizontal
4	22271.2500	56.64	47.00	-9.64	83.54	36.54	150	98	Horizontal
5	24375.4250	56.71	48.54	-8.17	83.54	35.00	150	315	Horizontal
6	25648.7250	56.29	48.34	-7.95	83.54	35.20	150	87	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	18880.6000	58.42	47.21	-11.21	83.54	36.33	150	220	Vertical
2	20013.2250	56.87	46.02	-10.85	83.54	37.52	150	35	Vertical
3	21567.8750	56.97	47.02	-9.95	83.54	36.52	150	358	Vertical
4	23340.9750	56.15	47.37	-8.78	83.54	36.17	150	210	Vertical
5	23851.4000	56.41	48.00	-8.41	83.54	35.54	150	190	Vertical
6	25050.7500	56.26	48.43	-7.83	83.54	35.11	150	6	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-Ant 2
Highest Frequency (2462MHz)
Environment: 25℃/60%RH
Tested By: Lu Qiang

Date: 2021-12-14
Voltage: AC120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18650.6750	58.88	47.50	-11.38	83.54	36.04	150	276	Horizontal
2	19696.1750	59.05	48.18	-10.87	83.54	35.36	150	162	Horizontal
3	21575.5250	56.37	46.43	-9.94	83.54	37.11	150	224	Horizontal
4	22036.2250	56.61	46.68	-9.93	83.54	36.86	150	140	Horizontal
5	23837.8000	56.77	48.34	-8.43	83.54	35.20	150	6	Horizontal
6	26043.5500	55.99	47.72	-8.27	83.54	35.82	150	356	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	18388.8750	58.69	47.16	-11.53	83.54	36.38	150	6	Vertical
2	18897.6000	58.10	46.91	-11.19	83.54	36.63	150	346	Vertical
3	21037.0500	56.93	46.63	-10.30	83.54	36.91	150	284	Vertical
4	22109.7500	56.52	46.68	-9.84	83.54	36.86	150	77	Vertical
5	23342.6750	56.71	47.93	-8.78	83.54	35.61	150	129	Vertical
6	25697.1750	56.09	48.08	-8.01	83.54	35.46	150	222	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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7. 6DB BANDWIDTH

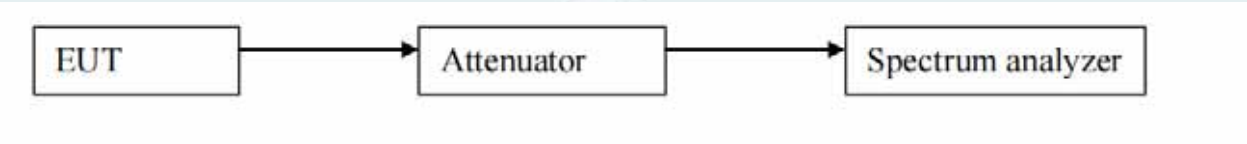
7.1 LIMITS

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.

7.2 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) ≥ 3 x 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.

7.3 TEST SETUP



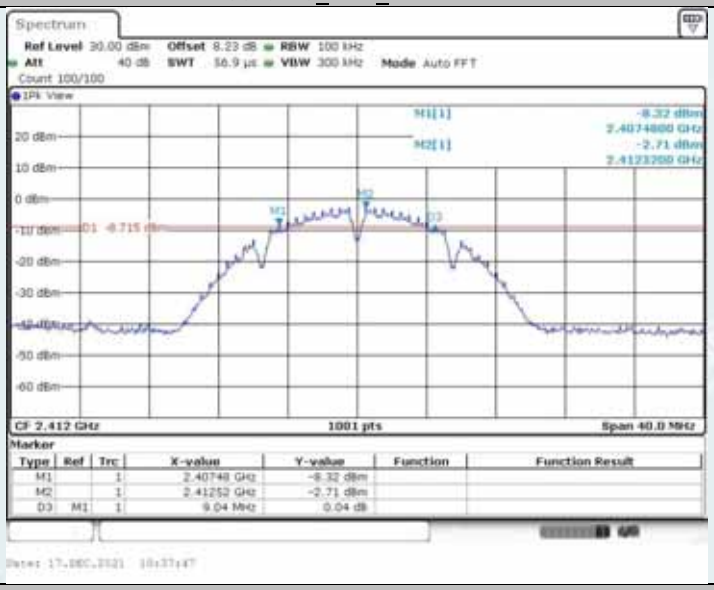
———— The following blanks ————

7.4 TEST RESULTS

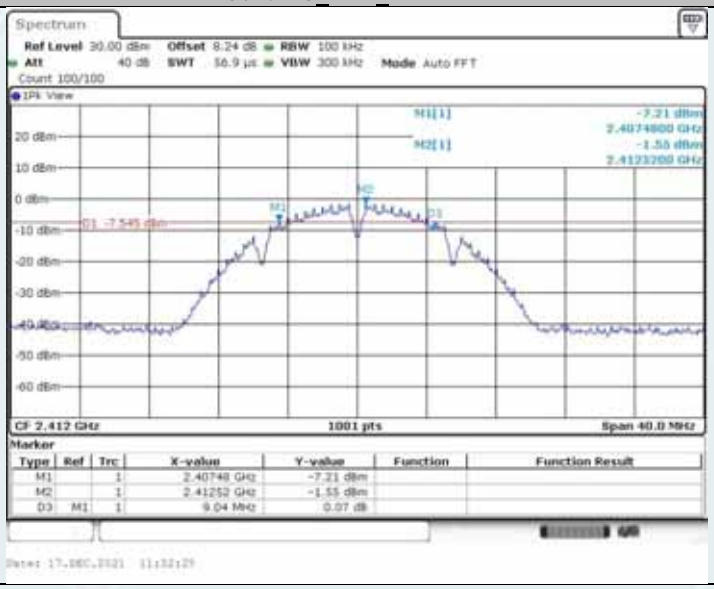
Environment: 23.5℃/48%RH Voltage: AC120V/60Hz
Tested By: Lu Wei Date: 2021-12-17

TestMode	Antenna	Frequency[MHz]	DTS BW[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	9.040	≥0.5	PASS
	Ant2	2412	9.040	≥0.5	PASS
	Ant1	2437	9.040	≥0.5	PASS
	Ant2	2437	9.040	≥0.5	PASS
	Ant1	2462	9.040	≥0.5	PASS
	Ant2	2462	9.040	≥0.5	PASS
802.11g	Ant1	2412	15.120	≥0.5	PASS
	Ant2	2412	15.080	≥0.5	PASS
	Ant1	2437	15.120	≥0.5	PASS
	Ant2	2437	15.120	≥0.5	PASS
	Ant1	2462	15.120	≥0.5	PASS
	Ant2	2462	15.120	≥0.5	PASS
802.11n HT20	Ant1	2412	15.120	≥0.5	PASS
	Ant2	2412	15.720	≥0.5	PASS
	Ant1	2437	15.120	≥0.5	PASS
	Ant2	2437	15.720	≥0.5	PASS
	Ant1	2462	15.120	≥0.5	PASS
	Ant2	2462	15.720	≥0.5	PASS
802.11n HT40	Ant1	2422	35.200	≥0.5	PASS
	Ant2	2422	35.040	≥0.5	PASS
	Ant1	2437	35.040	≥0.5	PASS
	Ant2	2437	35.040	≥0.5	PASS
	Ant1	2452	35.120	≥0.5	PASS
	Ant2	2452	35.040	≥0.5	PASS

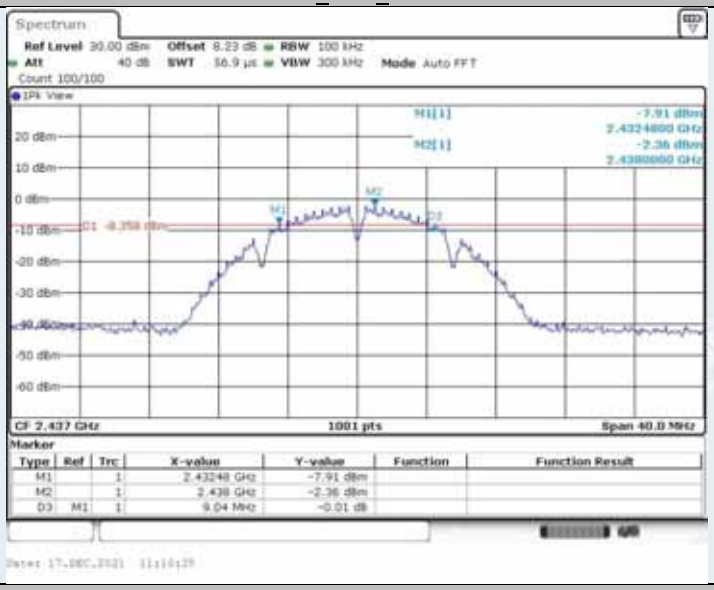
802.11b_Ant1_2412MHz



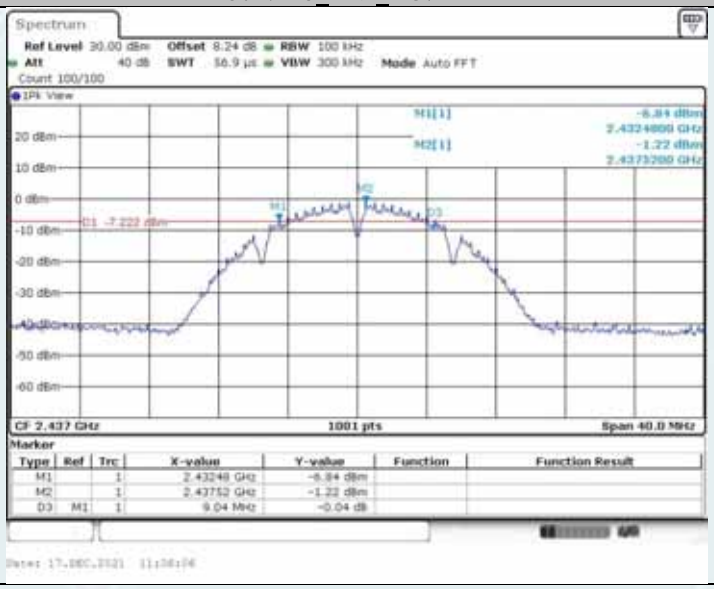
802.11b_Ant2_2412MHz



802.11b_Ant1_2437MHz

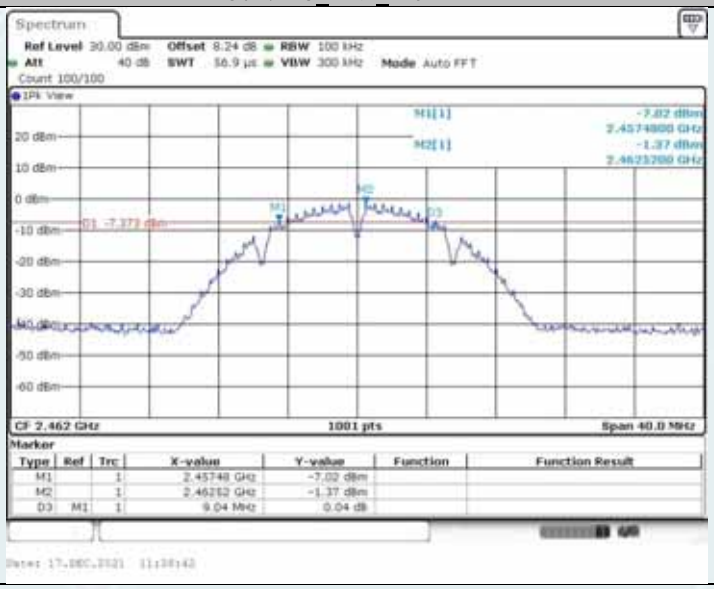


802.11b_Ant2_2437MHz

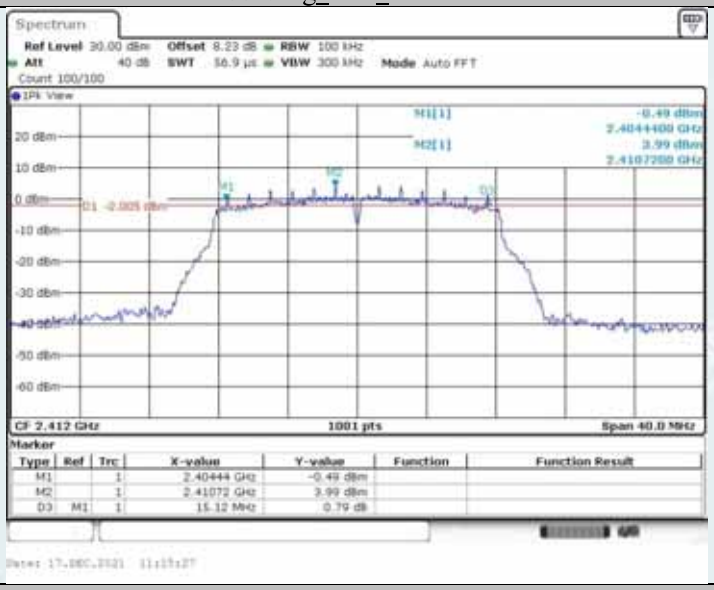


802.11b_Ant1_2462MHz

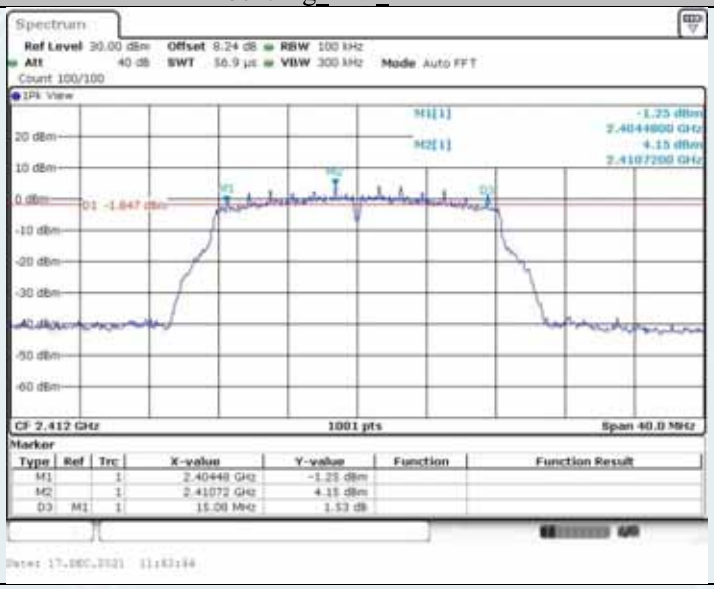
802.11b_Ant2_2462MHz

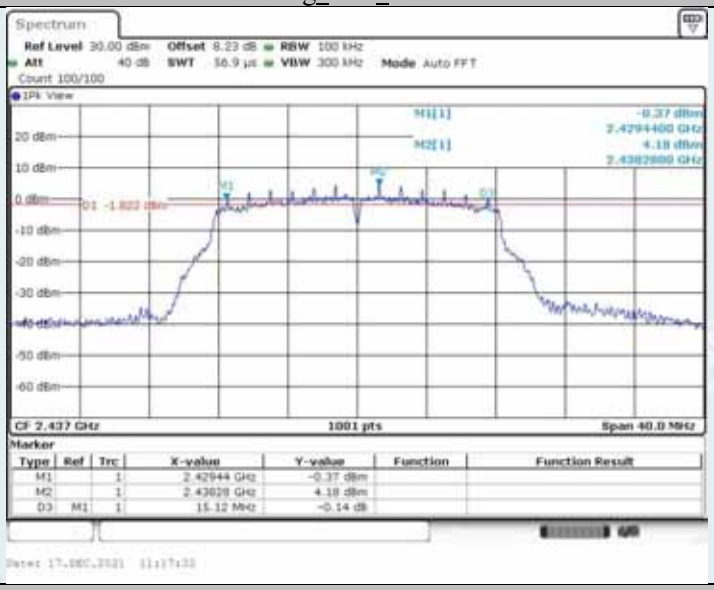


802.11g_Ant1_2412MHz



802.11g_Ant2_2412MHz



802.11g_Ant1_2437MHz

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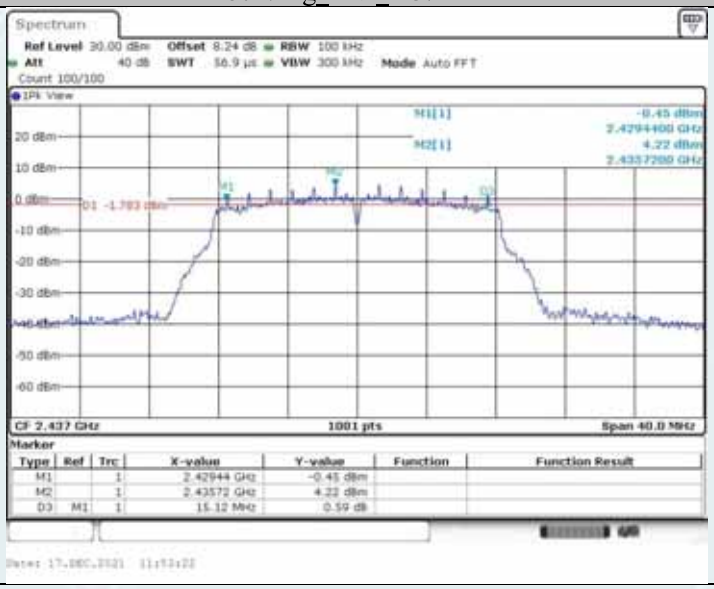
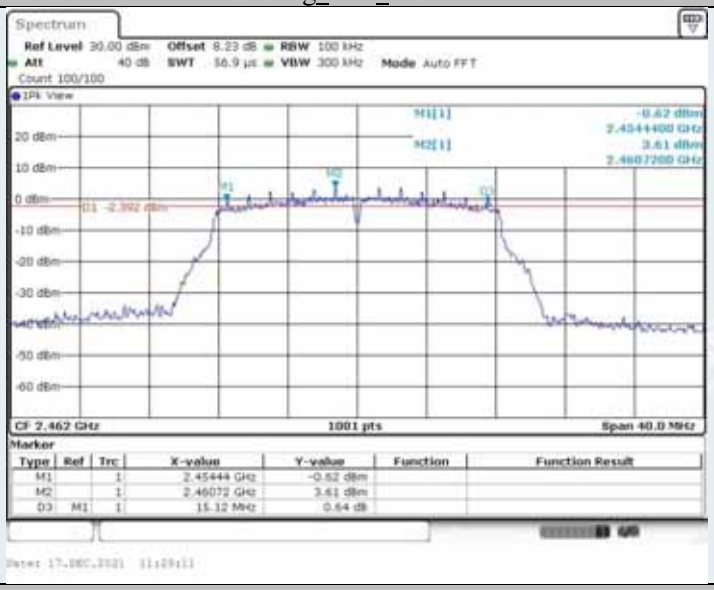
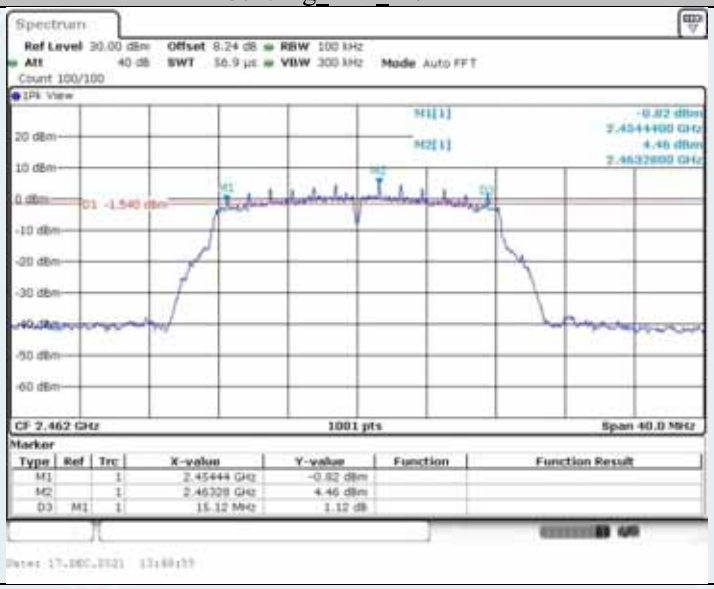
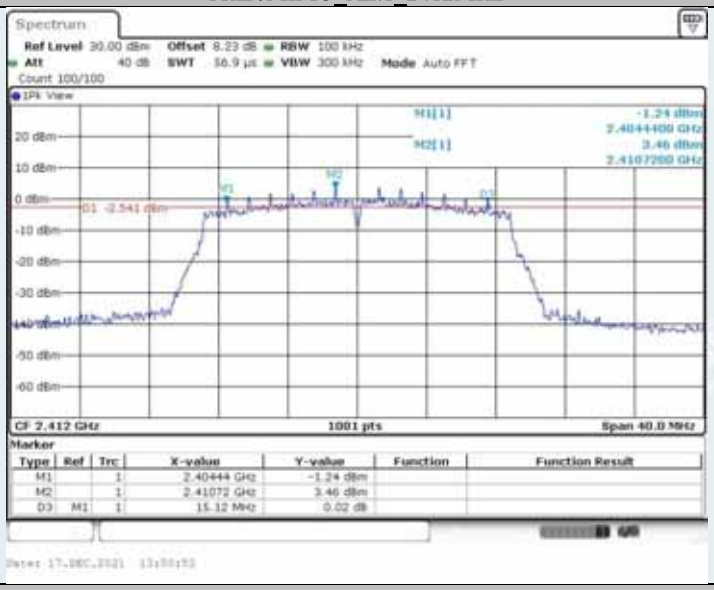
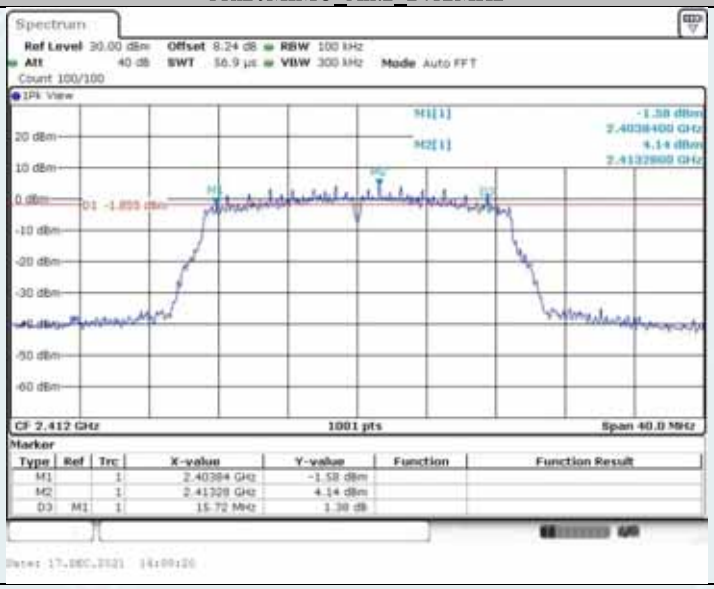


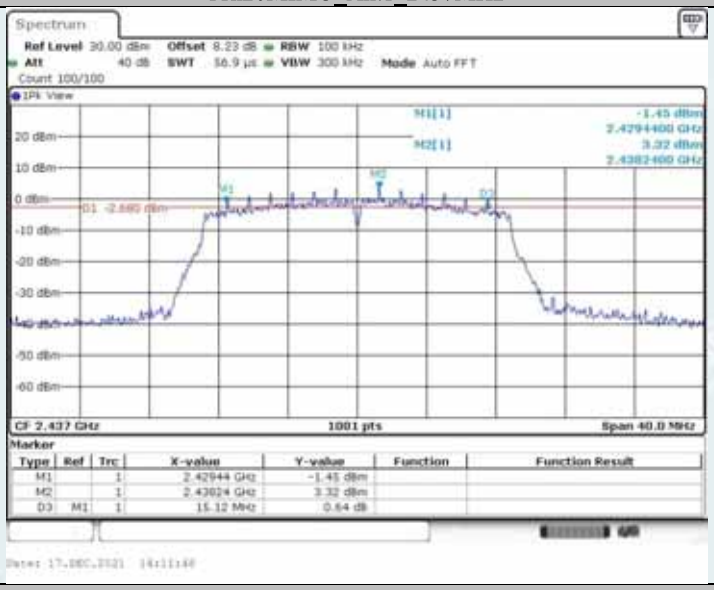
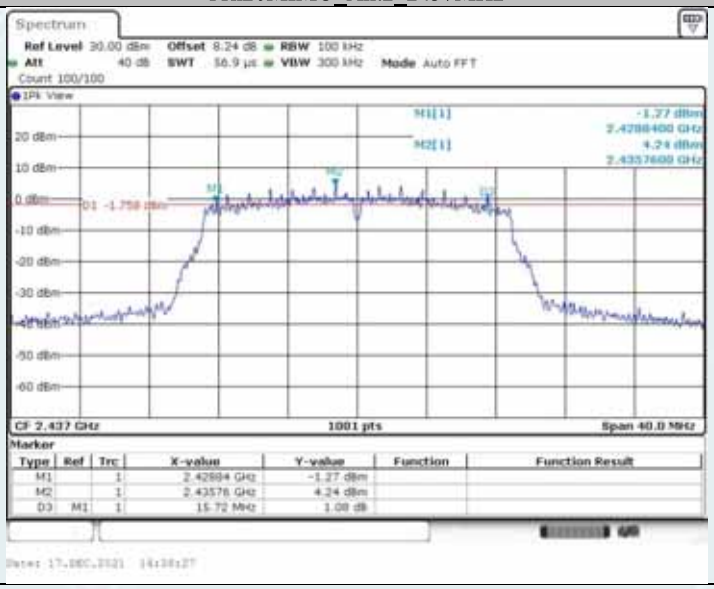
802.11g_Ant1_2462MHz

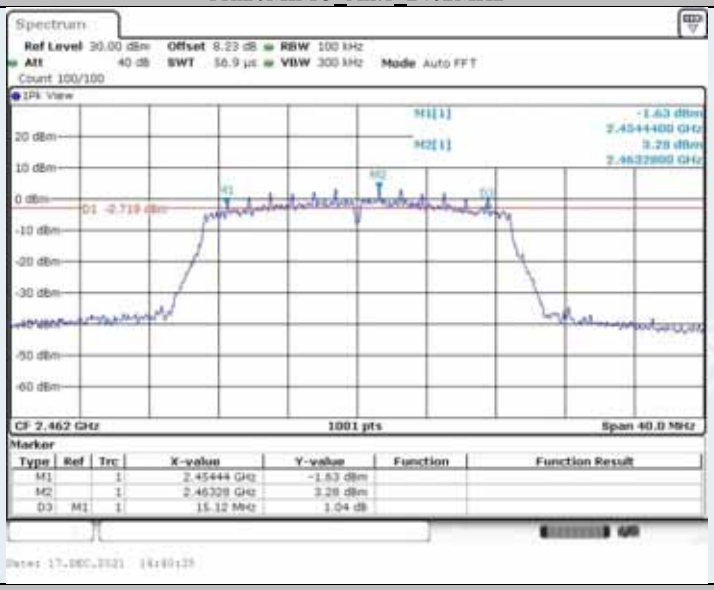
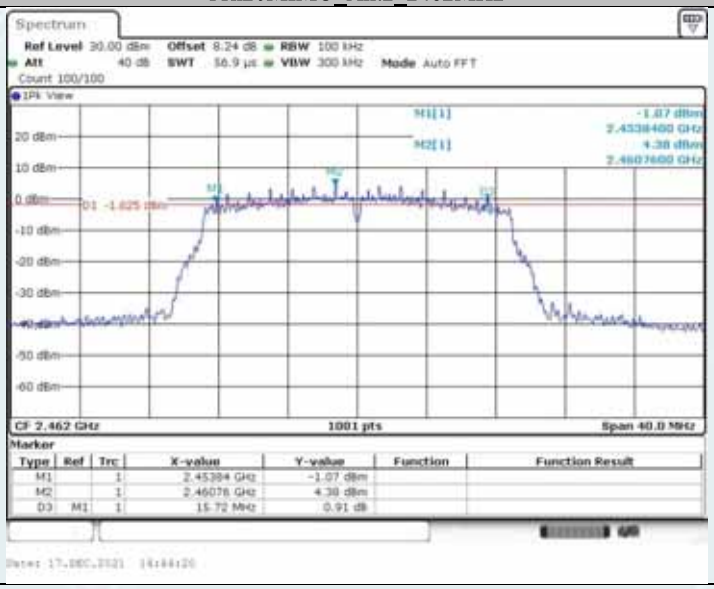


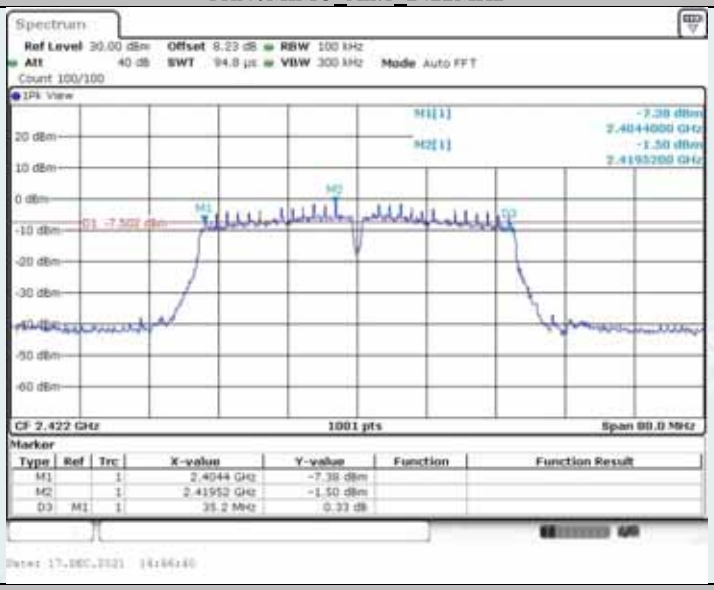
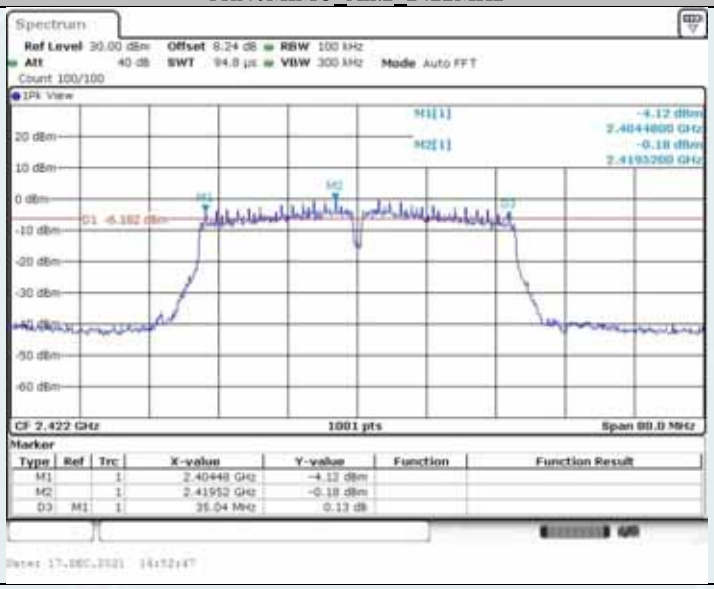
802.11g_Ant2_2462MHz

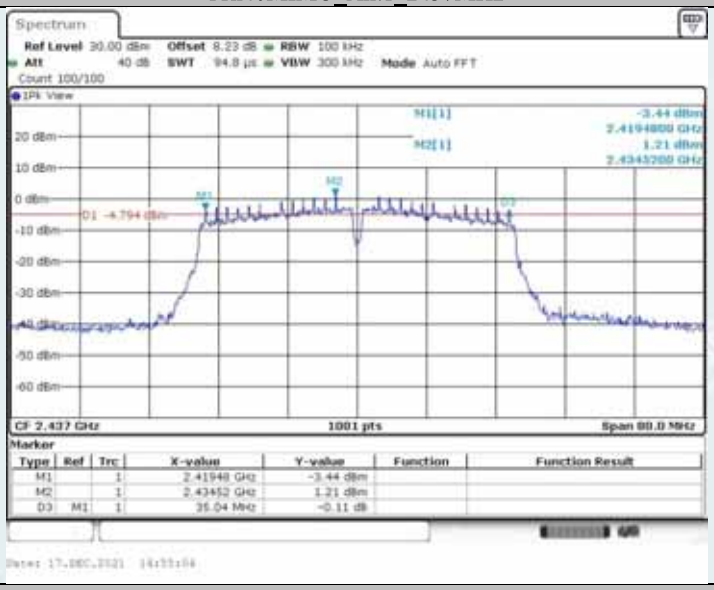
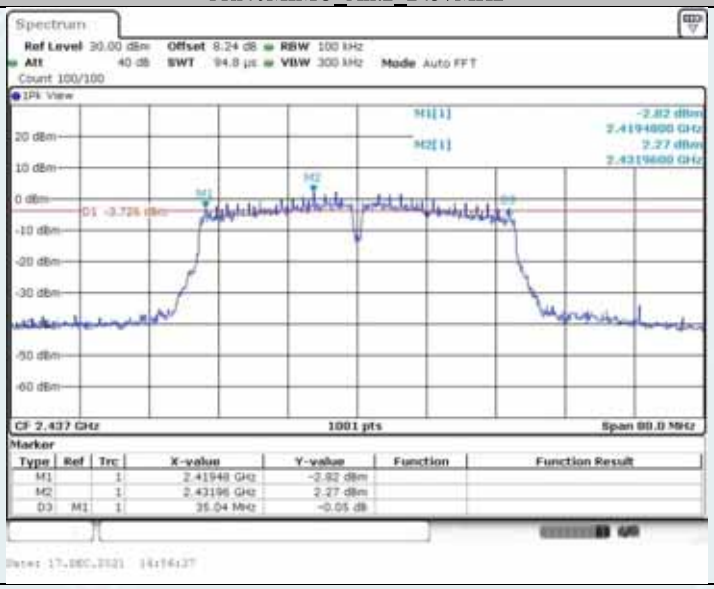


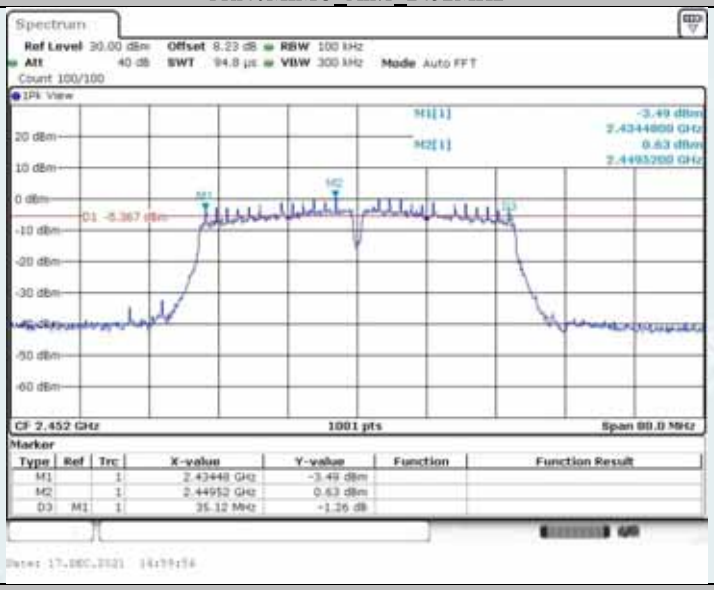
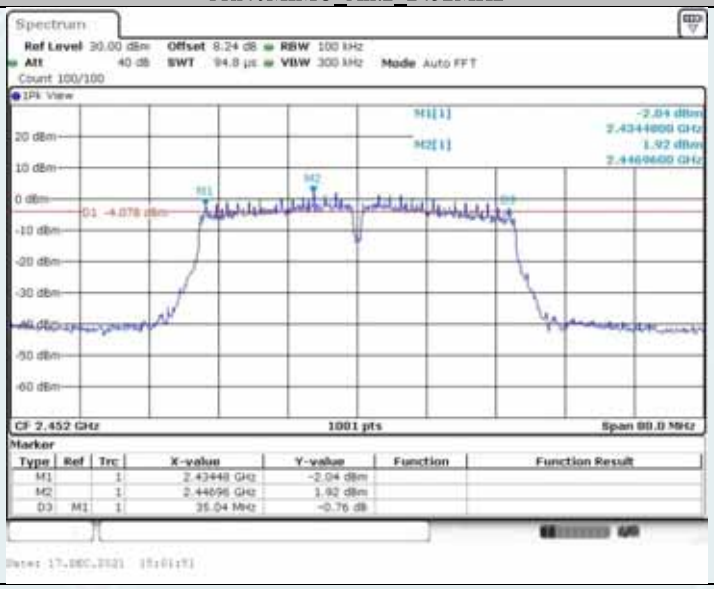
11n20MIMO_Ant1_2412MHz

11n20MIMO_Ant2_2412MHz


11n20MIMO_Ant1_2437MHz

11n20MIMO_Ant2_2437MHz


11n20MIMO_Ant1_2462MHz

11n20MIMO_Ant2_2462MHz


11n40MIMO_Ant1_2422MHz

11n40MIMO_Ant2_2422MHz


11n40MIMO_Ant1_2437MHz

11n40MIMO_Ant2_2437MHz


11n40MIMO_Ant1_2452MHz

11n40MIMO_Ant2_2452MHz


8. MAXIMUM PEAK OUTPUT POWER

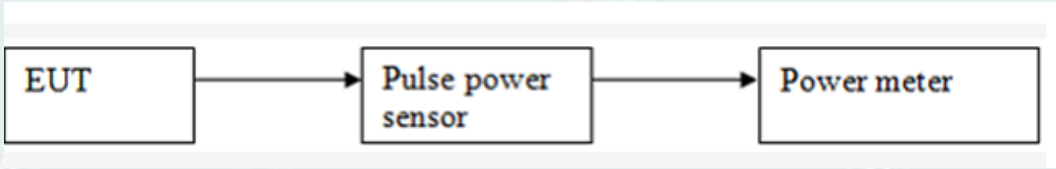
8.1 LIMITS

The maximum Peak output power measurement is 1W

8.2 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.

8.3 TEST SETUP



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8.4 TEST RESULT

Environment: 23.5℃/48%RH Voltage: AC120V/60Hz
Tested By: Lu Wei Date: 2021-12-17

802.11b Mode (antenna 1):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	8.85	Peak	30dBm	Pass
6	2437	8.32			Pass
11	2462	7.24			Pass

802.11b Mode (antenna 2):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	10.41	Peak	30dBm	Pass
6	2437	9.62			Pass
11	2462	8.56			Pass

802.11g Mode (antenna 1):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	22.90	Peak	30dBm	Pass
6	2437	22.87			Pass
11	2462	23.16			Pass

802.11g Mode (antenna 2):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	23.27	Peak	30dBm	Pass
6	2437	23.01			Pass
11	2462	23.55			Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
1	2412	22.04	22.48	25.27	Peak	30dBm	Pass
6	2437	22.14	23.04	25.62			Pass
11	2462	23.12	23.27	26.20			Pass

802.11n HT40 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
3	2422	20.75	21.98	24.42	Peak	30dBm	Pass
6	2437	22.37	23.04	25.73			Pass
9	2452	22.64	23.37	26.03			Pass

Note: 1. This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
For power measurements on IEEE 802.11 devices, Directional gain = G_{ANT} + Array Gain ,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.
The directional gain is less than 6 and the power limit does not need to be reversed.

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9. POWER SPECTRAL DENSITY

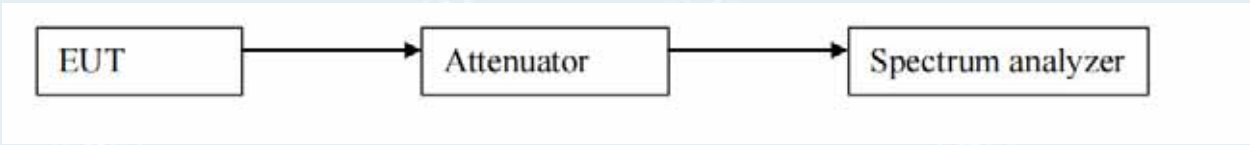
9.1 LIMITS

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.

9.2 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 kHz ≤ RBW ≤ 100 kHz.
   d) Set the VBW ≥ [3 × 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.

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 23.5℃/48%RH Voltage: AC120V/60Hz
Tested By: Lu Wei Date: 2021-12-17

802.11b Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)		Limit (dBm/3kHz)	Result
		antenna 1	antenna 2		
1	2412	-3.25	-2.38	8.00	Pass
6	2437	-5.39	-2.04	8.00	Pass
11	2462	-3.42	-2.25	8.00	Pass

802.11g Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)		Limit (dBm/3kHz)	Result
		antenna 1	antenna 2		
1	2412	-10.35	-10.32	8.00	Pass
6	2437	-9.34	-9.46	8.00	Pass
11	2462	-11.03	-10.87	8.00	Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)			Limit (dBm/3kHz)	Result
		antenna 1	antenna 2	total		
1	2412	-10.73	-8.73	-6.61	7.49	Pass
6	2437	-11.75	-9.42	-7.42	7.49	Pass
11	2462	-12.07	-9.38	-7.51	7.49	Pass

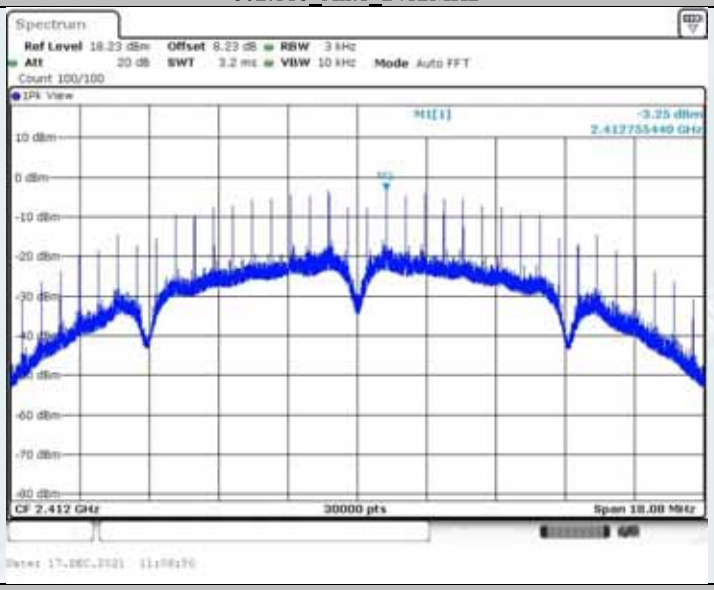
802.11n HT40 Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)			Limit (dBm/3kHz)	Result
		antenna 1	antenna 2	total		
3	2422	-16.93	-15.72	-13.27	7.49	Pass
6	2437	-14.64	-12.72	-10.56	7.49	Pass
9	2452	-14.18	-13.21	-10.66	7.49	Pass

Note:

1.This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain =3.5+10log(2)dBi, HT20,HT40 mode: Directional gain (dBi)=6.51.

2. Antenna gain is greater than 6, HT20,HT40 mode:PSD limit=8-(6.51-6)=7.49dBm.

802.11b_Ant1_2412MHz

802.11b_Ant2_2412MHz