

9.4 TEST RESULTS

Environment: 23.5°C/48%RH

Tested By:Lu Wei

Voltage:DC 12V

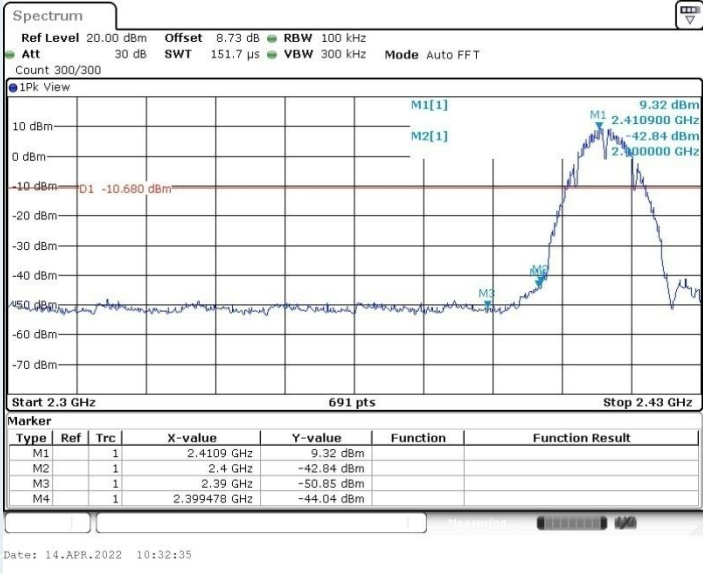
Date: 2022-04-14

Band edge

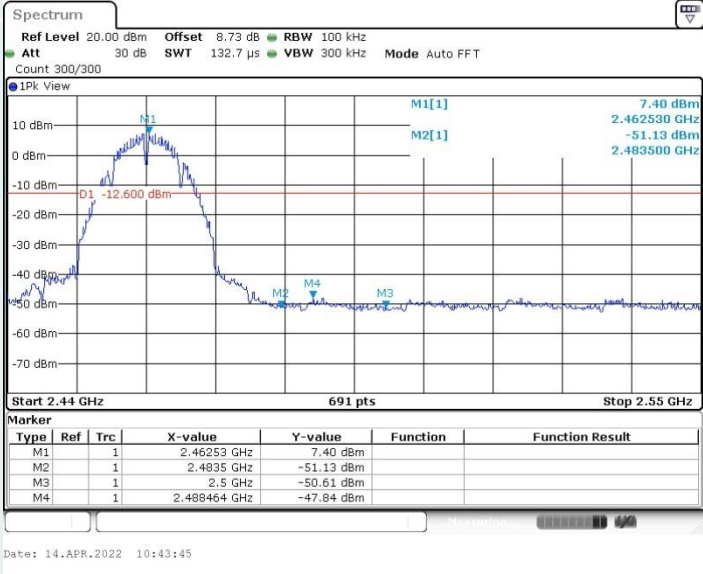
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
IEEE 802.11b	Ant1	Low	2412	9.32	-44.04	≤-10.68	PASS
		High	2462	7.40	-47.84	≤-12.6	PASS
IEEE 802.11g	Ant1	Low	2412	7.46	-23.83	≤-12.54	PASS
		High	2462	5.43	-41.81	≤-14.57	PASS
IEEE 802.11n HT20	Ant1	Low	2412	5.86	-25.69	≤-14.14	PASS
		High	2462	3.07	-44.29	≤-16.93	PASS
IEEE 802.11n HT40	Ant1	Low	2422	0.71	-40.28	≤-19.29	PASS
		High	2452	1.61	-43.98	≤-18.39	PASS

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

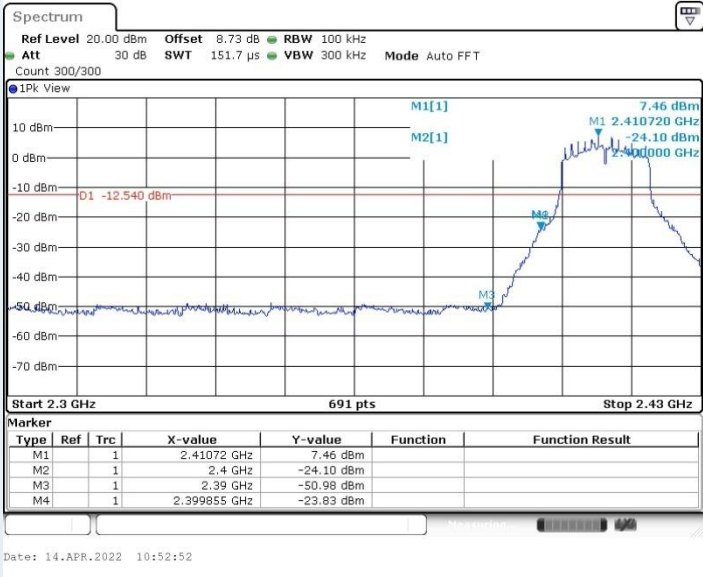
IEEE 802.11b_Ant1_Low_2412 MHz



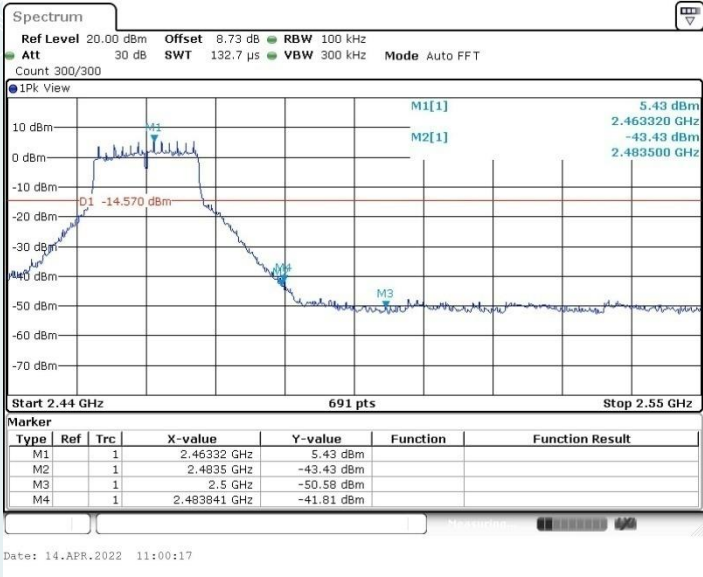
IEEE 802.11b_Ant1_High_2462 MHz



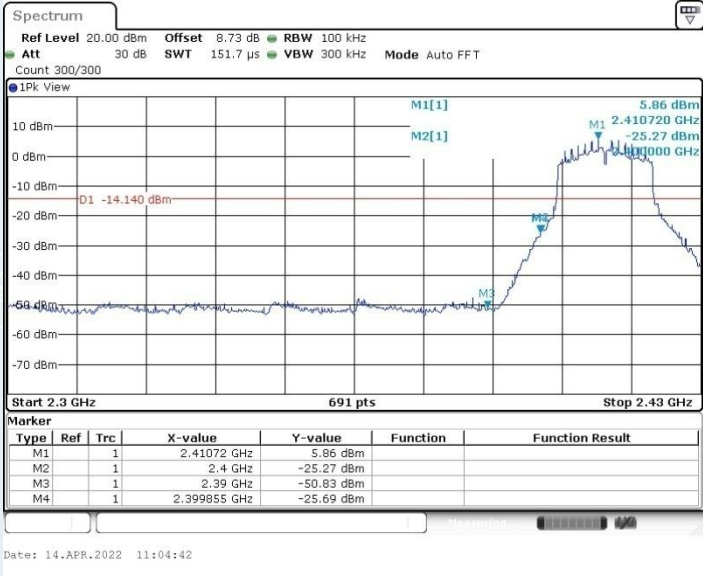
IEEE 802.11g_Ant1_Low_2412 MHz



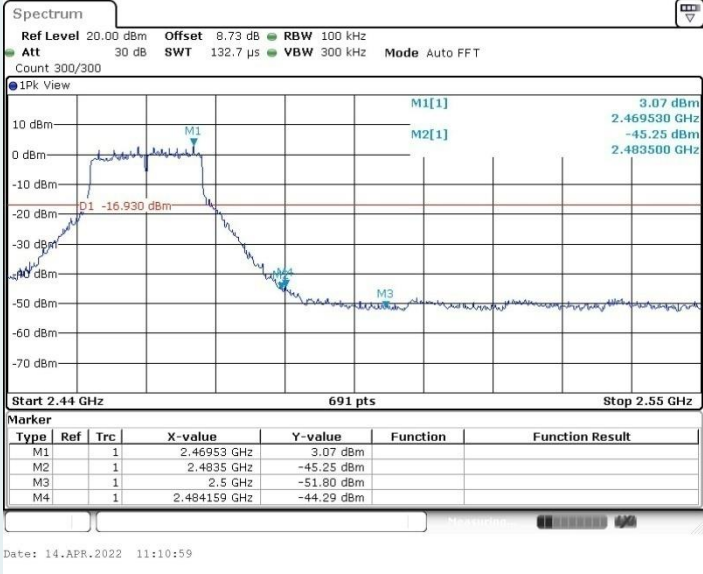
IEEE 802.11g_Ant1_High_2462 MHz



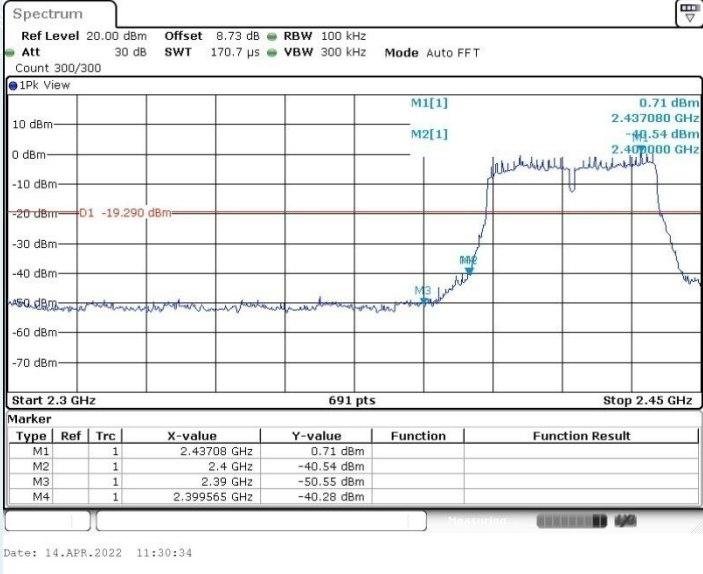
IEEE 802.11n HT20_Ant1_Low_2412 MHz



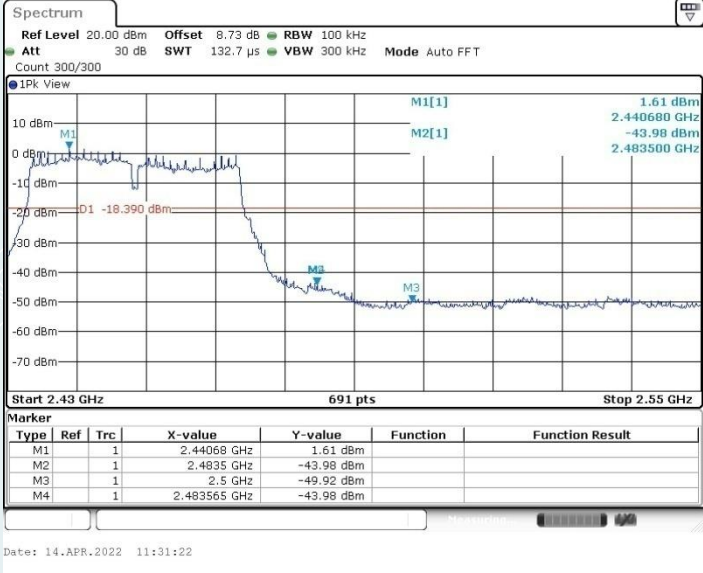
IEEE 802.11n HT20_Ant1_High_2462 MHz



IEEE 802.11n HT40_Ant1_Low_2422 MHz



IEEE 802.11n HT40_Ant1_High_2452 MHz



Conducted Spurious Emission:

Test Result

Environment: 23.5°C/48%RH

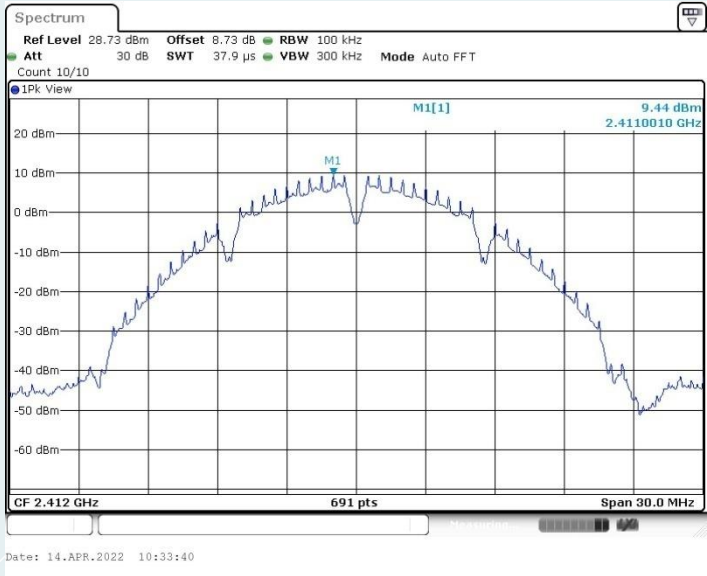
Tested By:Lu Wei

Voltage:DC 12V

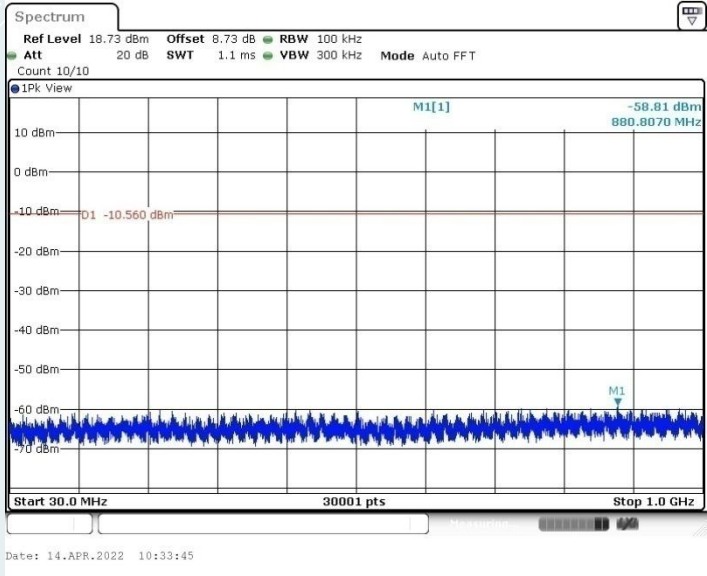
Date: 2022-04-14

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
IEEE 802.11b	Ant1	2412	Reference	9.44	9.44	---	PASS
			30~1000	9.44	-58.81	≤-10.56	PASS
			1000~26500	9.44	-42.3	≤-10.56	PASS
		2437	Reference	9.31	9.31	---	PASS
			30~1000	9.31	-58.81	≤-10.69	PASS
			1000~26500	9.31	-44.36	≤-10.69	PASS
		2462	Reference	7.36	7.36	---	PASS
			30~1000	7.36	-58.75	≤-12.64	PASS
			1000~26500	7.36	-43.07	≤-12.64	PASS
IEEE 802.11g	Ant1	2412	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-59.06	≤-12.46	PASS
			1000~26500	7.54	-53.57	≤-12.46	PASS
		2437	Reference	7.33	7.33	---	PASS
			30~1000	7.33	-58.58	≤-12.67	PASS
			1000~26500	7.33	-52.03	≤-12.67	PASS
		2462	Reference	5.46	5.46	---	PASS
			30~1000	5.46	-58.44	≤-14.54	PASS
			1000~26500	5.46	-53.15	≤-14.54	PASS
IEEE 802.11n HT20	Ant1	2412	Reference	6.53	6.53	---	PASS
			30~1000	6.53	-58.87	≤-13.47	PASS
			1000~26500	6.53	-54.37	≤-13.47	PASS
		2437	Reference	6.44	6.44	---	PASS
			30~1000	6.44	-58.47	≤-13.56	PASS
			1000~26500	6.44	-54.51	≤-13.56	PASS
		2462	Reference	4.66	4.66	---	PASS
			30~1000	4.66	-58.41	≤-15.34	PASS
			1000~26500	4.66	-53.62	≤-15.34	PASS
IEEE 802.11n HT40	Ant1	2422	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-58.78	≤-19.55	PASS
			1000~26500	0.45	-54.83	≤-19.55	PASS
		2437	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-58.23	≤-18.3	PASS
			1000~26500	1.70	-54.75	≤-18.3	PASS
		2452	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-59.39	≤-18.6	PASS
			1000~26500	1.40	-55.34	≤-18.6	PASS

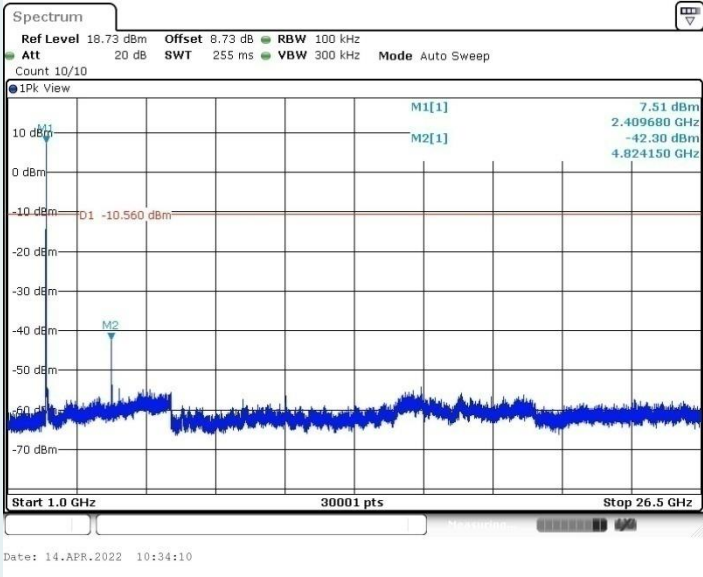
IEEE 802.11b_Ant1_2412 MHz_0~Reference



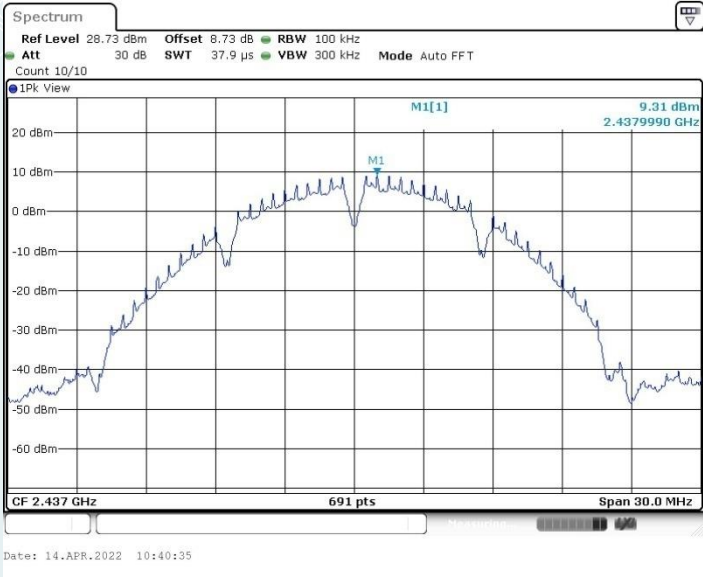
IEEE 802.11b_Ant1_2412 MHz_30~1000 MHz



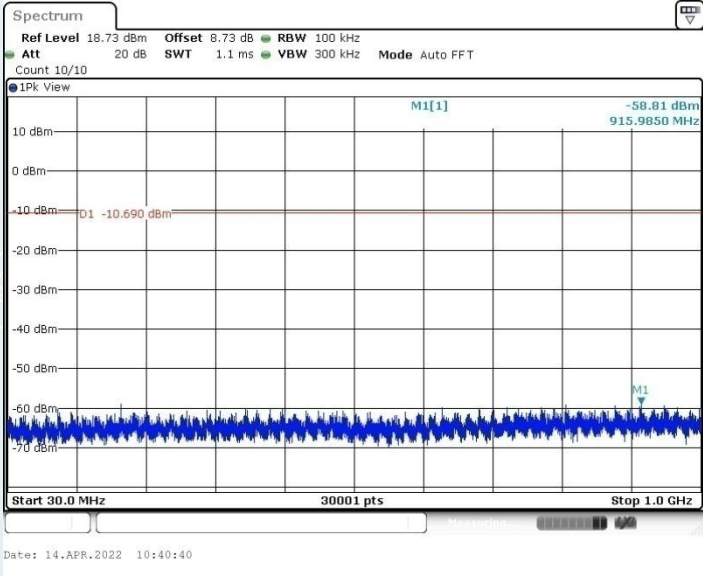
IEEE 802.11b_Ant1_2412 MHz _1000~26500 MHz



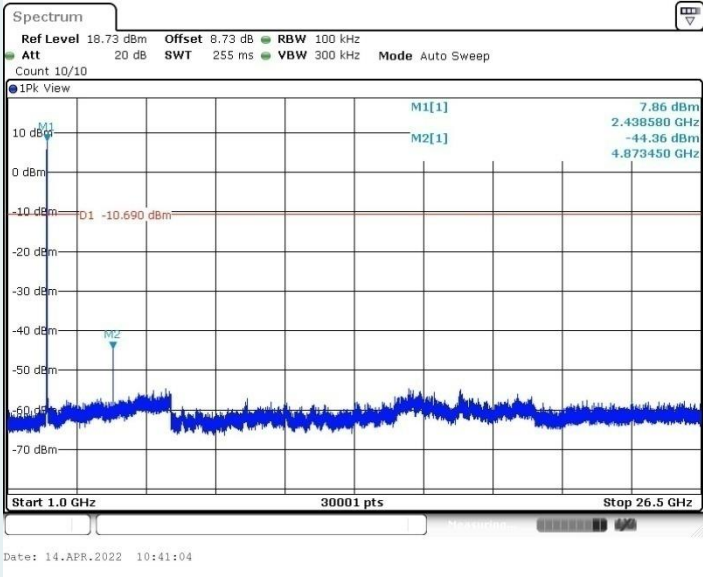
IEEE 802.11b_Ant1_2437 MHz _0~Reference



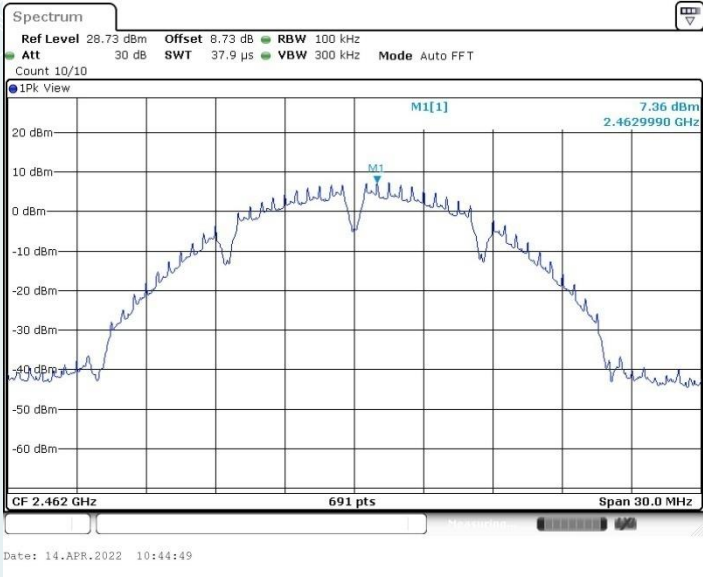
IEEE 802.11b_Ant1_2437 MHz _30~1000 MHz



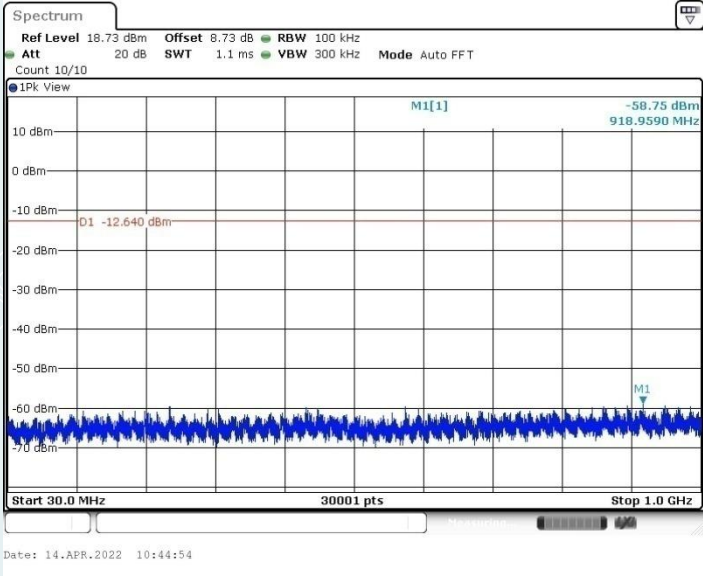
IEEE 802.11b_Ant1_2437 MHz _1000~26500 MHz



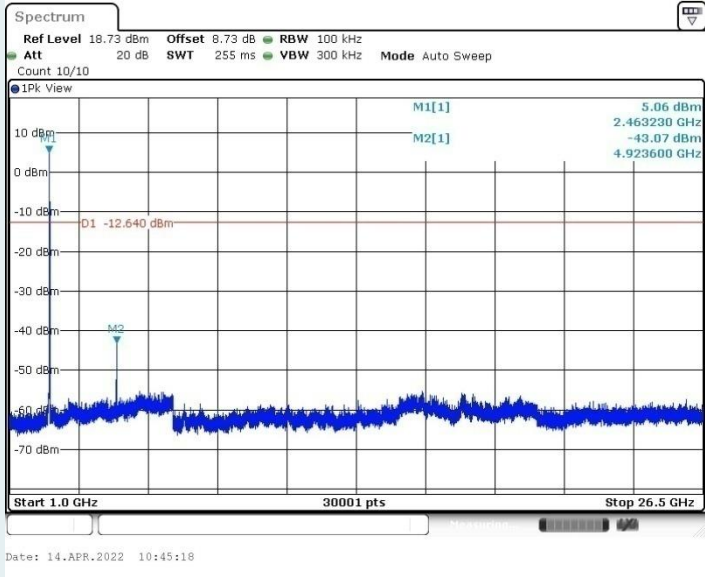
IEEE 802.11b_Ant1_2462 MHz _0~Reference



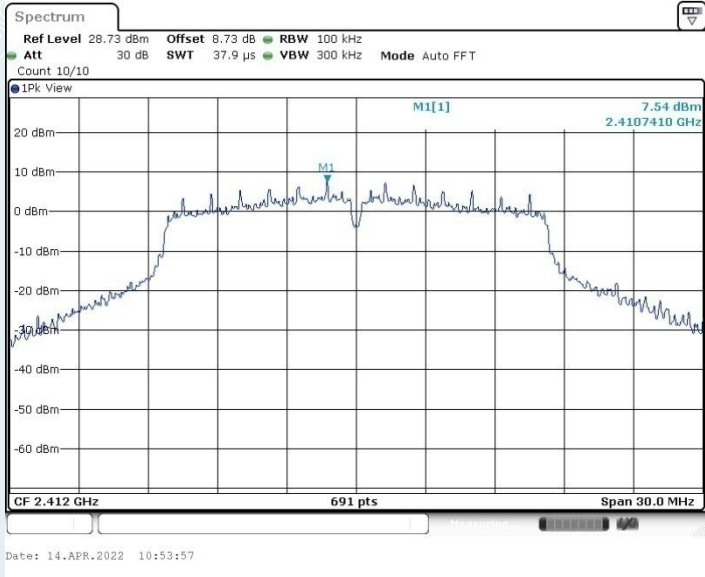
IEEE 802.11b_Ant1_2462 MHz _30~1000 MHz



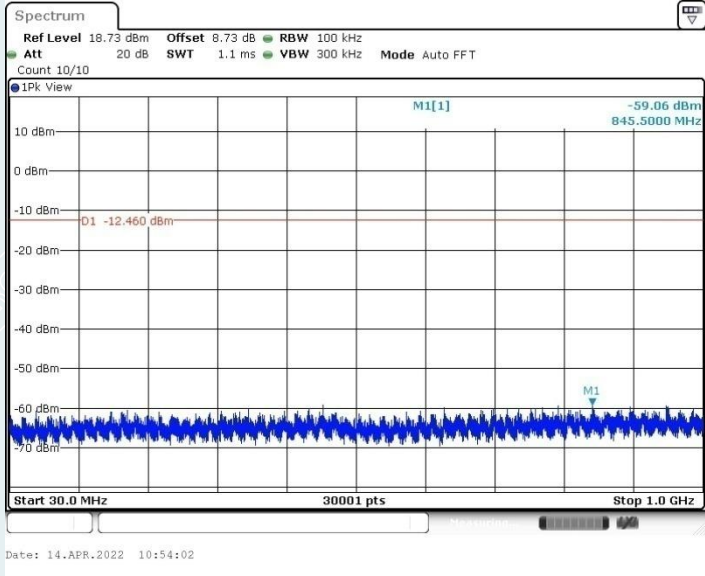
IEEE 802.11b_Ant1_2462 MHz _1000~26500 MHz



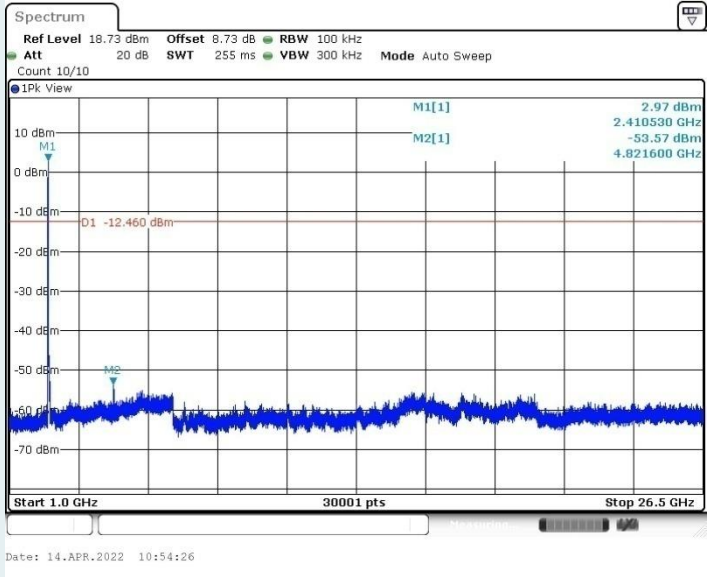
IEEE 802.11g_Ant1_2412 MHz _0~Reference



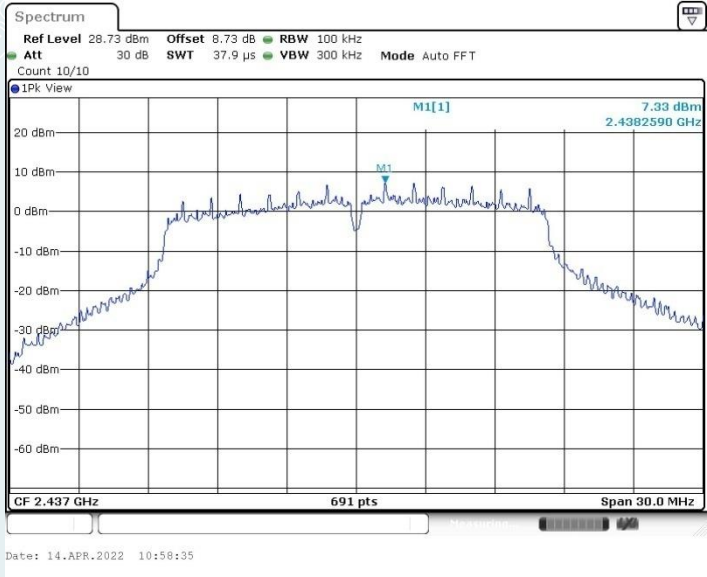
IEEE 802.11g_Ant1_2412 MHz _30~1000 MHz



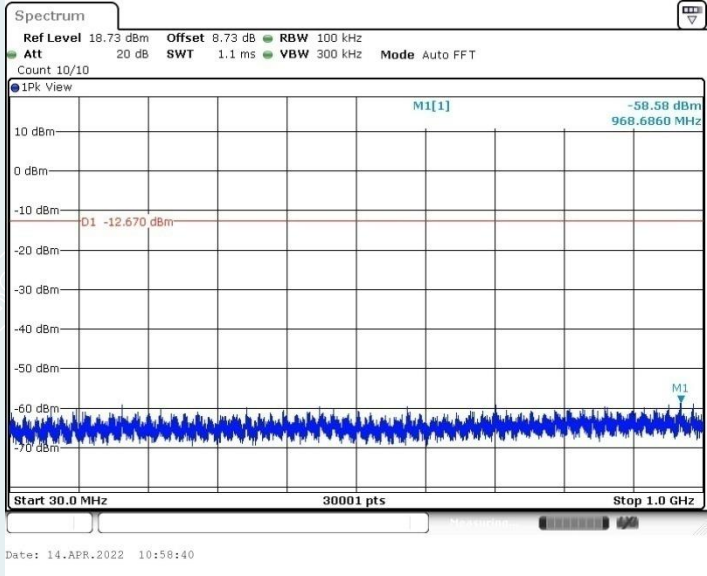
IEEE 802.11g_Ant1_2412 MHz _1000~26500 MHz



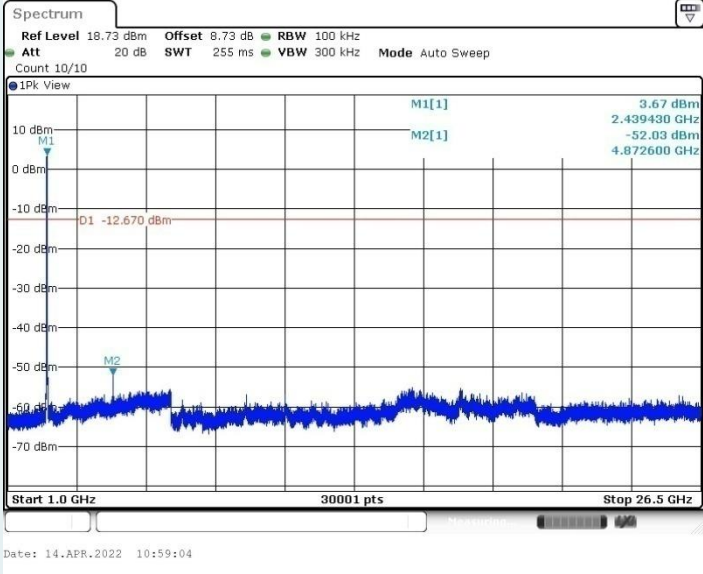
IEEE 802.11g_Ant1_2437 MHz _0~Reference



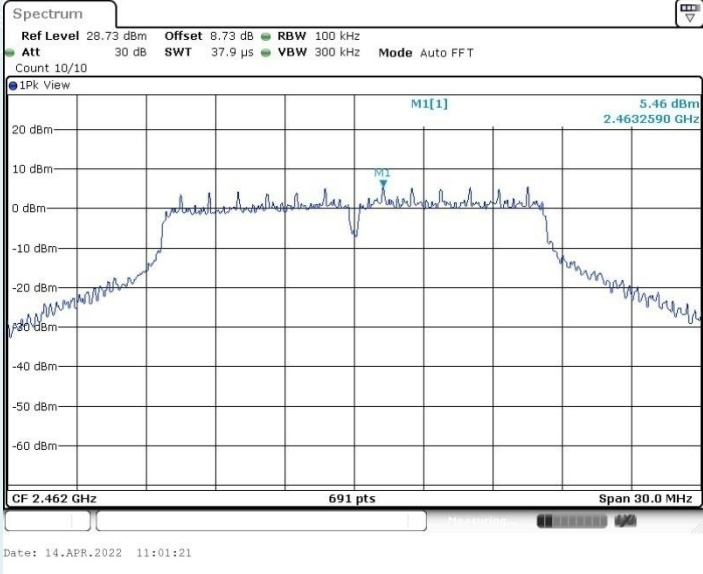
IEEE 802.11g_Ant1_2437 MHz _30~1000 MHz



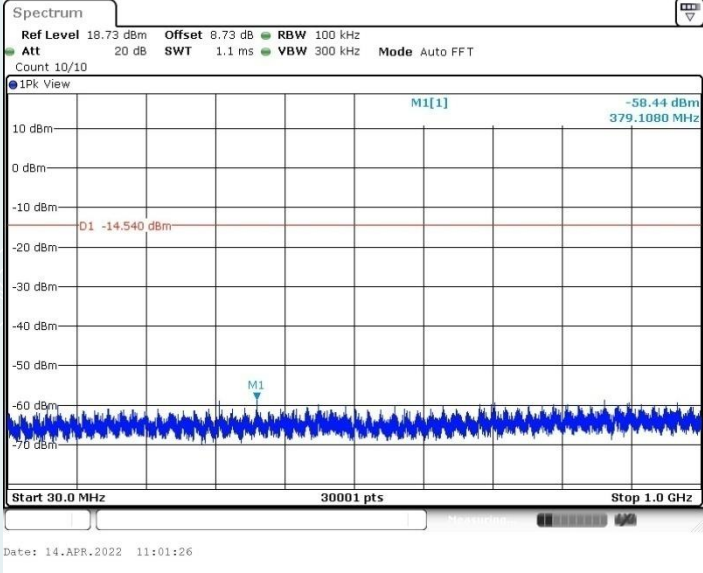
IEEE 802.11g_Ant1_2437 MHz _1000~26500 MHz



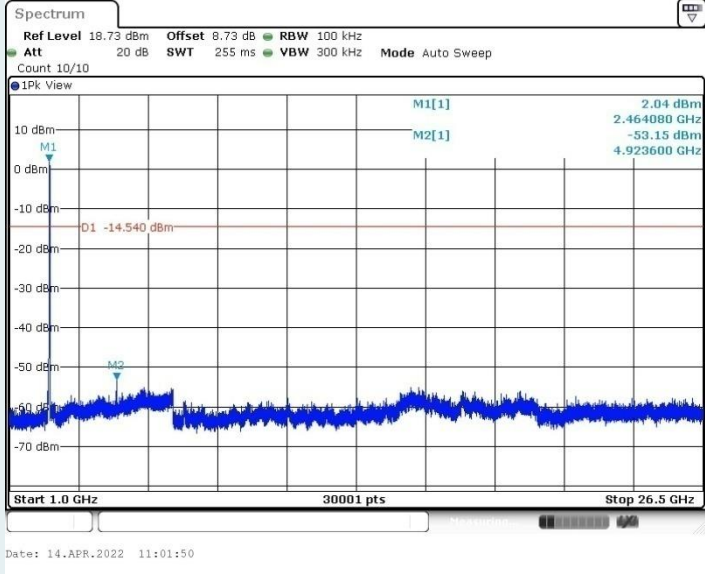
IEEE 802.11g_Ant1_2462 MHz _0~Reference



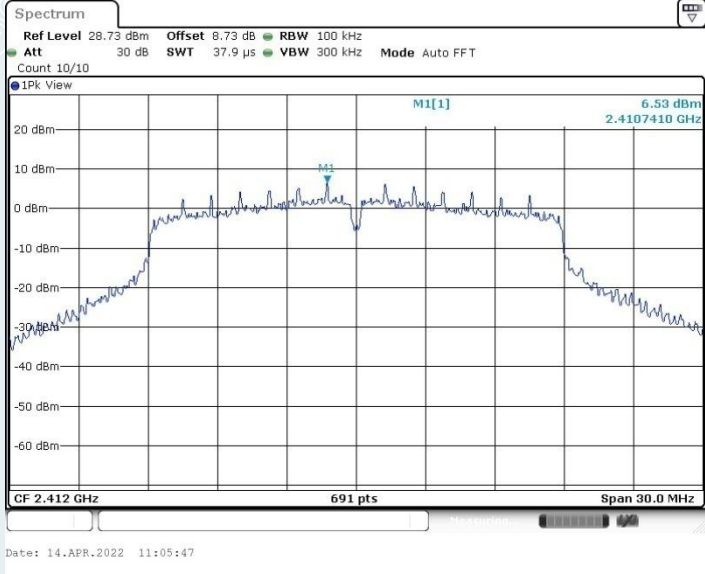
IEEE 802.11g_Ant1_2462 MHz _30~1000 MHz



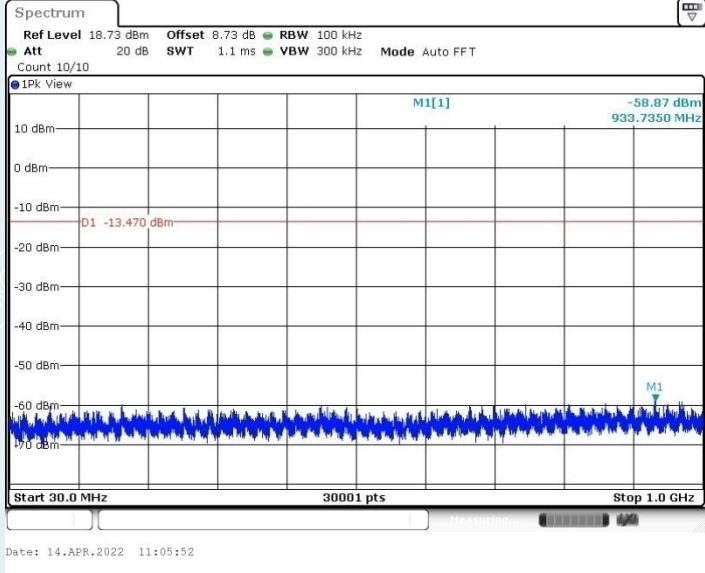
IEEE 802.11g_Ant1_2462 MHz _1000~26500 MHz



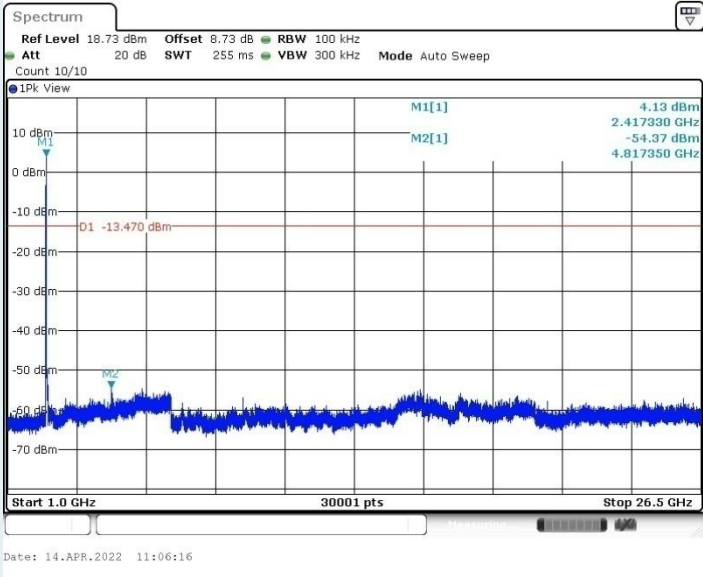
IEEE 802.11n HT20_Ant1_2412 MHz _0~Reference



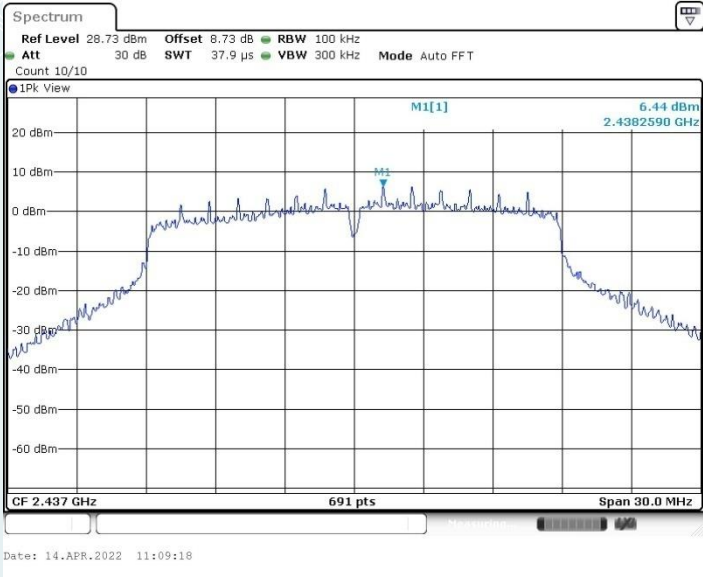
IEEE 802.11n HT20_Ant1_2412 MHz _30~1000 MHz



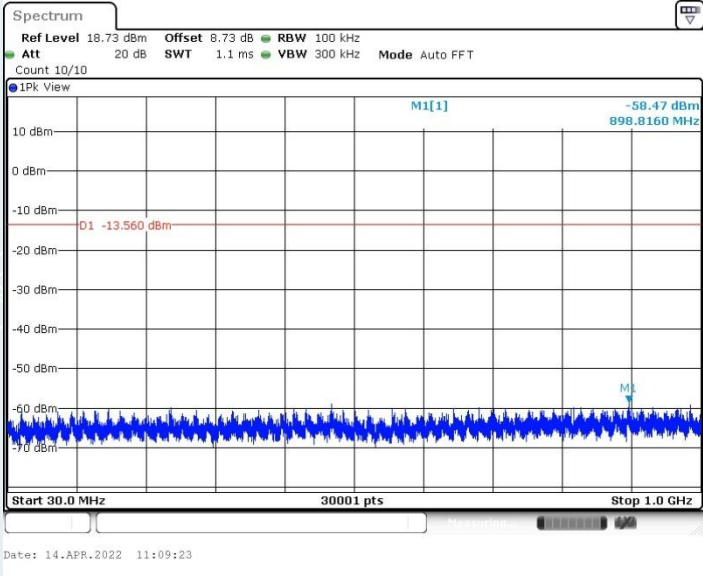
IEEE 802.11n HT20_Ant1_2412 MHz _1000~26500 MHz



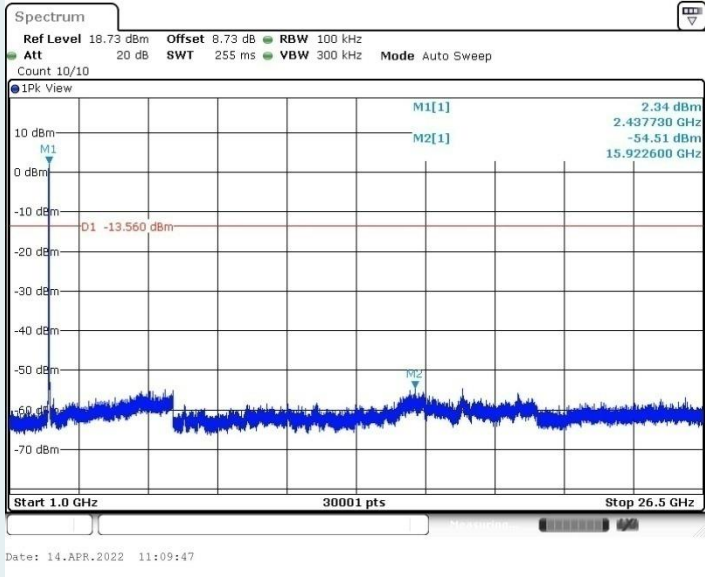
IEEE 802.11n HT20_Ant1_2437 MHz _0~Reference



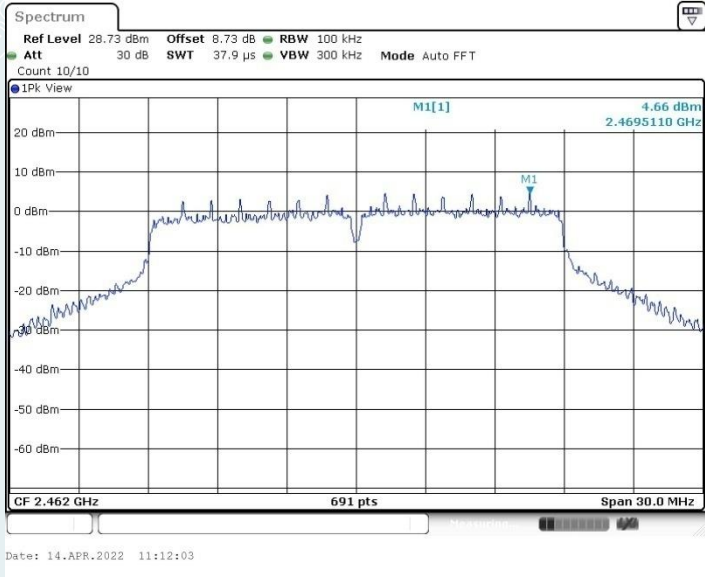
IEEE 802.11n HT20_Ant1_2437 MHz _30~1000 MHz



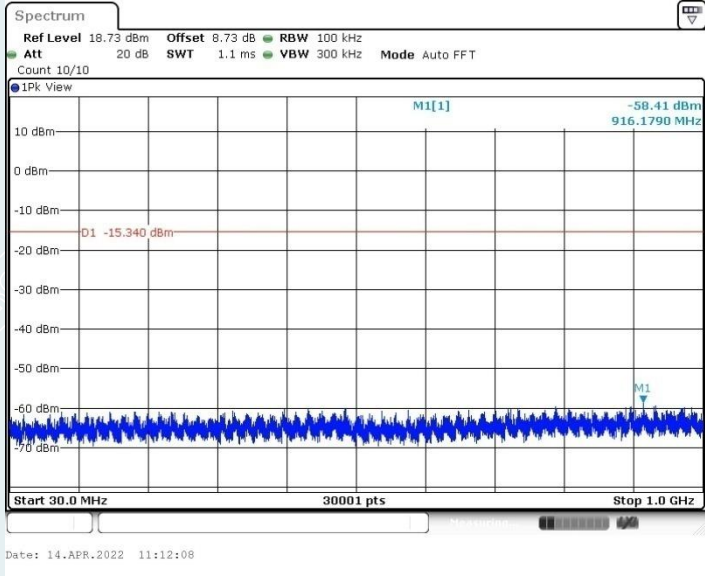
IEEE 802.11n HT20_Ant1_2437 MHz _1000~26500 MHz



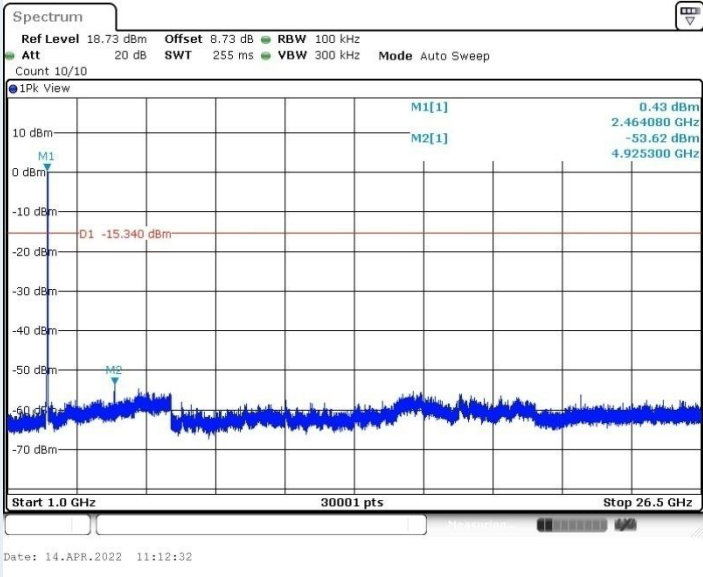
IEEE 802.11n HT20_Ant1_2462 MHz _0~Reference



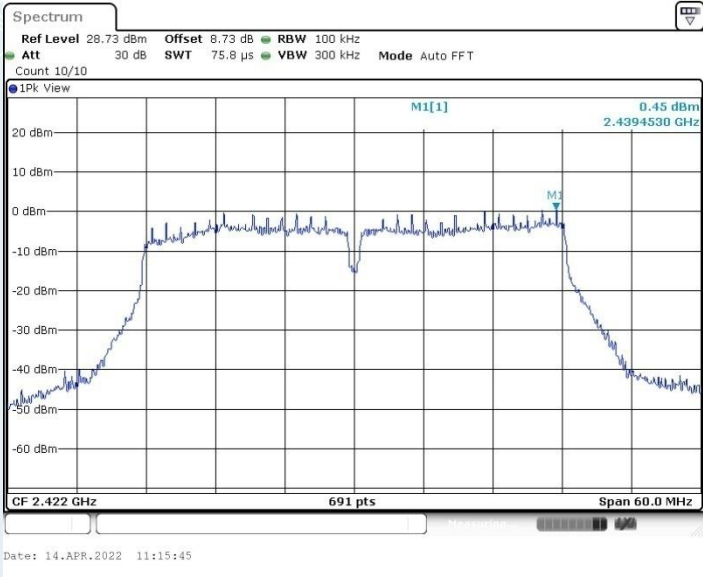
IEEE 802.11n HT20_Ant1_2462 MHz _30~1000 MHz



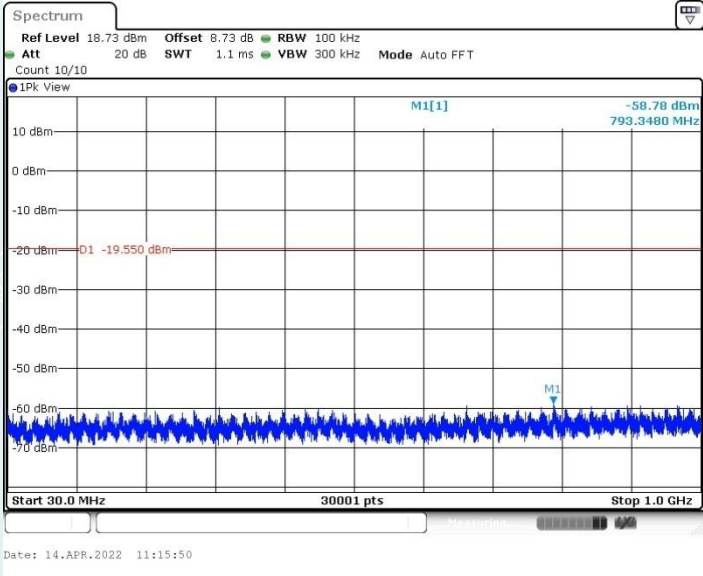
IEEE 802.11n HT20_Ant1_2462 MHz _1000~26500 MHz



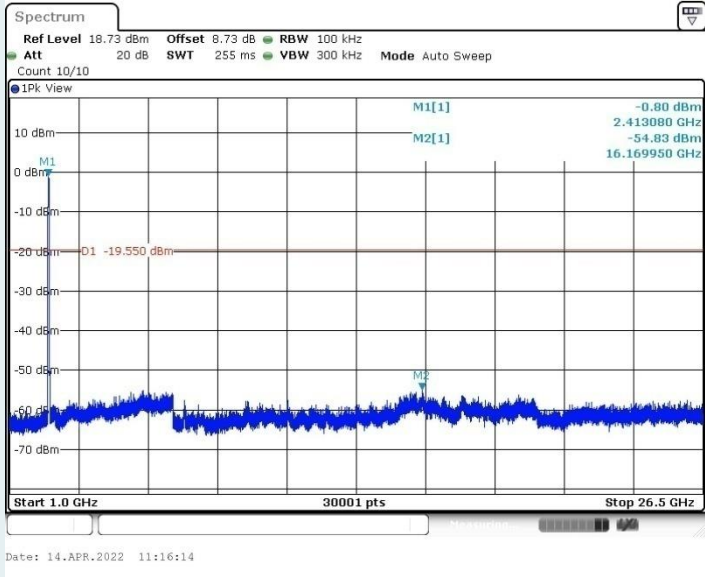
IEEE 802.11n HT40_Ant1_2422 MHz _0~Reference



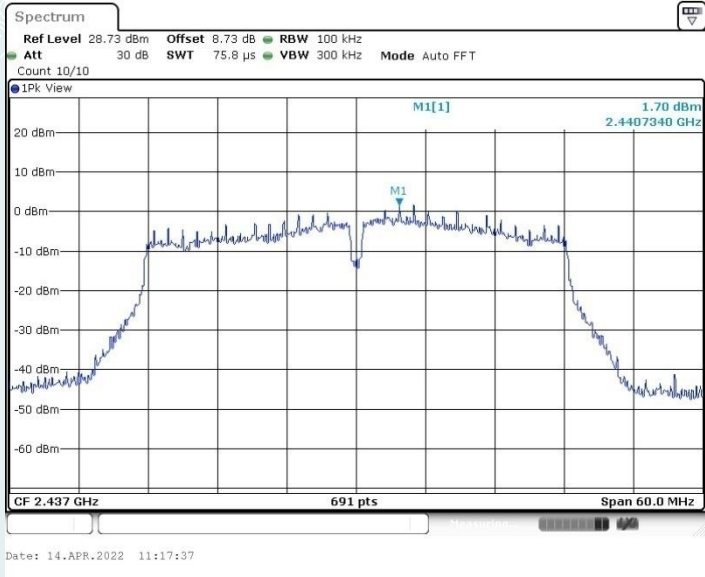
IEEE 802.11n HT40_Ant1_2422 MHz _30~1000 MHz



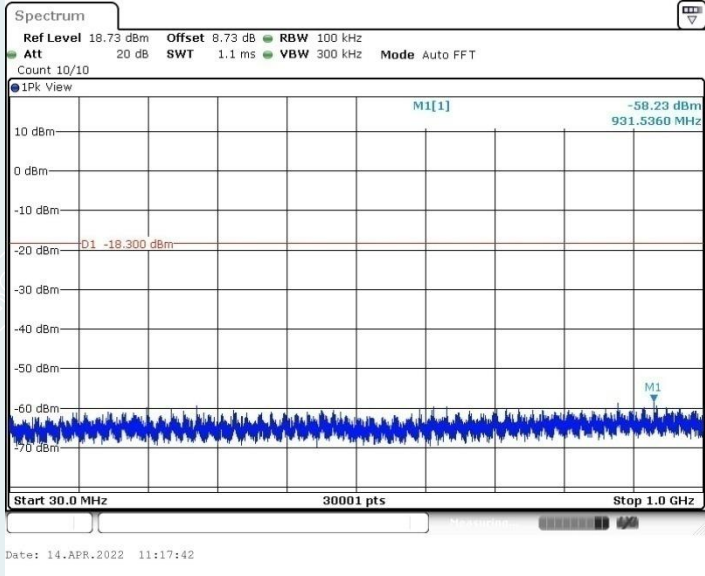
IEEE 802.11n HT40_Ant1_2422 MHz _1000~26500 MHz



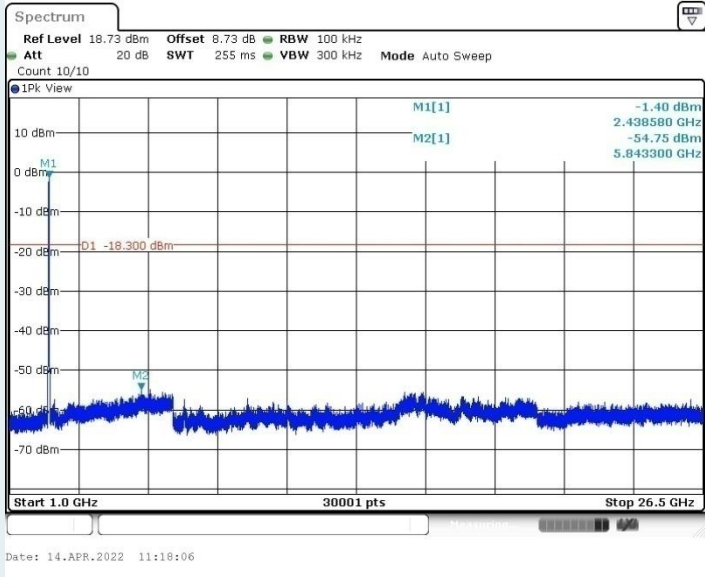
IEEE 802.11n HT40_Ant1_2437 MHz _0~Reference



IEEE 802.11n HT40_Ant1_2437 MHz _30~1000 MHz



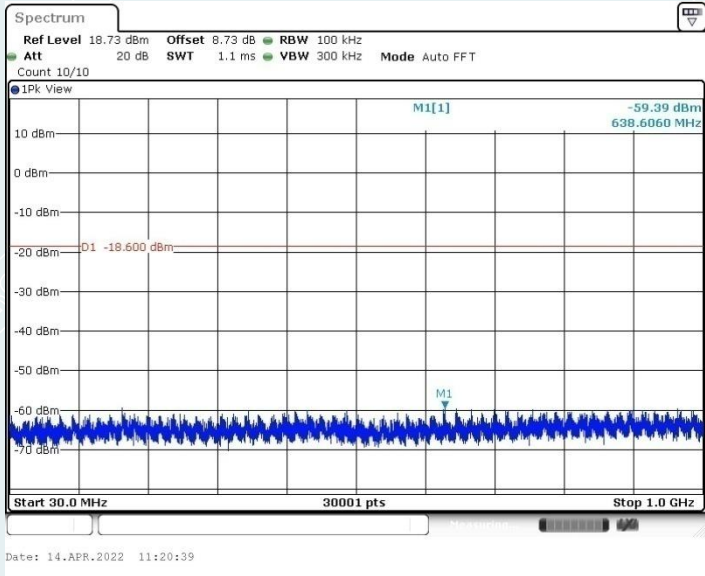
IEEE 802.11n HT40_Ant1_2437 MHz _1000~26500 MHz

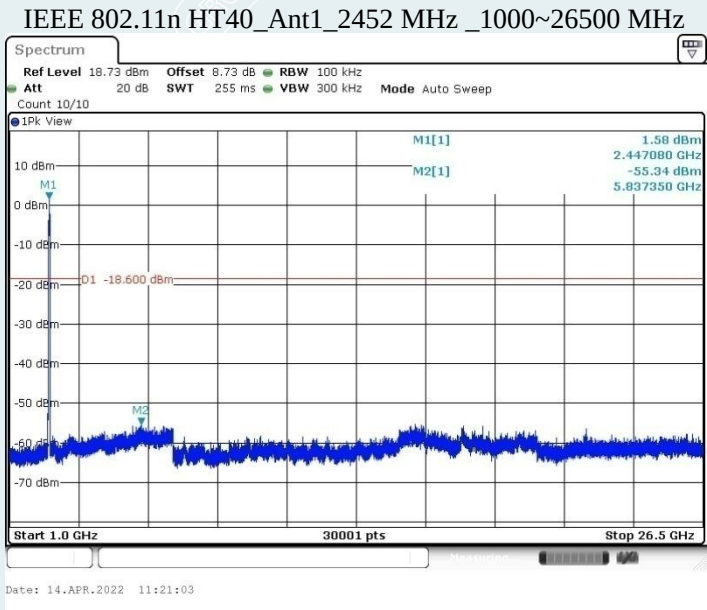


IEEE 802.11n HT40_Ant1_2452 MHz _0~Reference



IEEE 802.11n HT40_Ant1_2452 MHz _30~1000 MHz





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

10. RESTRICTED BANDS OF OPERATION

10.1 LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

Frequency (MHz)	Quasi-peak(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

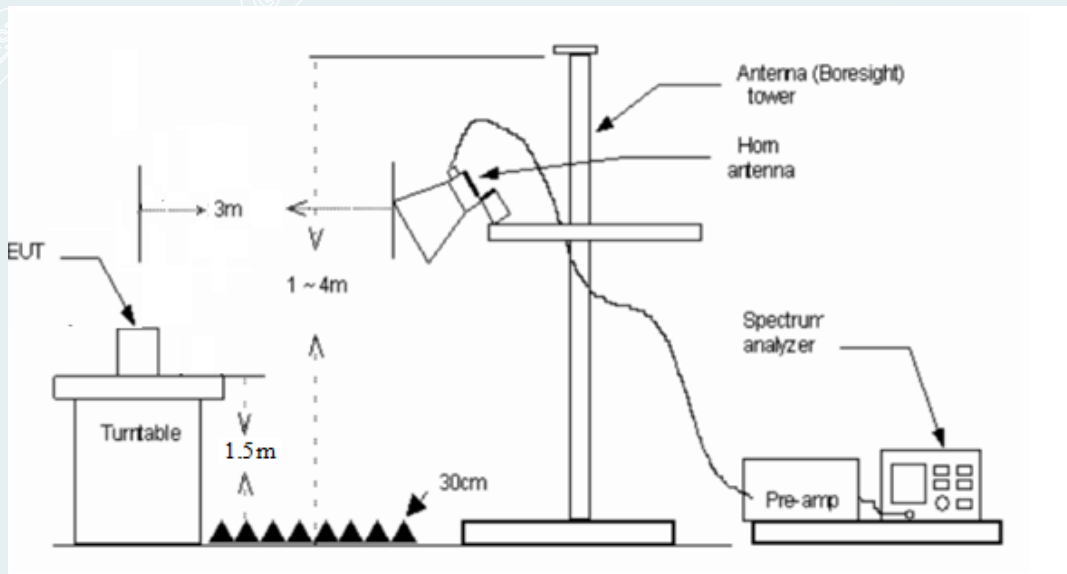
10.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance.

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
 - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.9.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

10.3 TEST SETUP



10.4 TEST RESULTS

IEEE 802.11b mode

Lowest Channel

Frequency 2412MHz

Environment: 25°C/60%RH

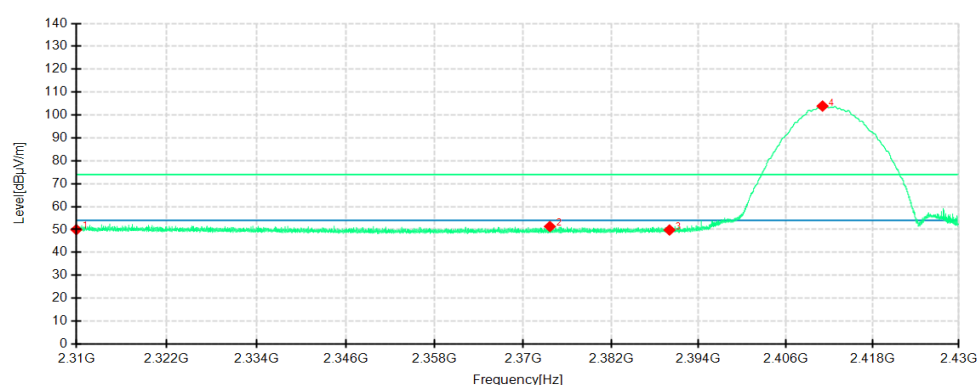
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

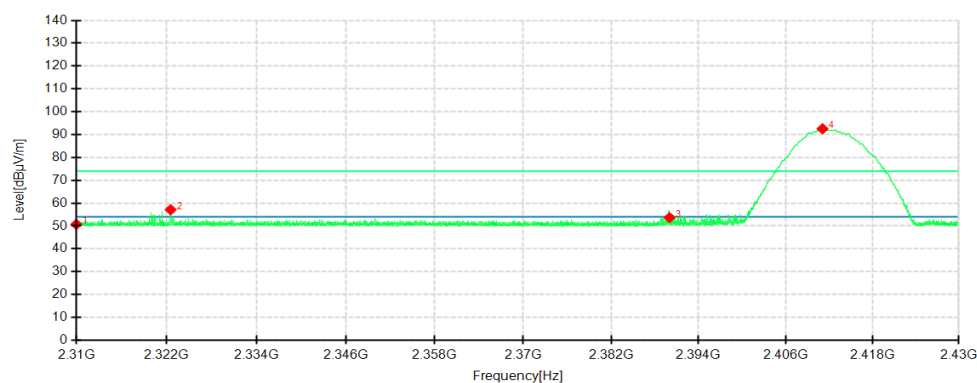
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	46.01	49.94	3.93	74.00	24.06	200	265	Horizontal	/
2	2373.6480	48.25	51.31	3.06	74.00	22.69	200	128	Horizontal	/
3	2390.0000	46.65	49.78	3.13	74.00	24.22	100	206	Horizontal	/
4	2411.0880	100.63	103.92	3.29	74.00	-29.92	100	285	Horizontal	No limit
1	2310.0000	46.19	50.70	4.51	74.00	23.30	200	196	Vertical	/
2	2322.5400	52.56	57.12	4.56	74.00	16.88	200	346	Vertical	/
3	2390.0000	49.39	53.66	4.27	74.00	20.34	100	264	Vertical	/
4	2411.0880	88.49	92.53	4.04	74.00	-18.53	100	264	Vertical	No limit

IEEE 802.11b mode**Lowest Channel**

Frequency 2412MHz

Environment: 25°C/60%RH

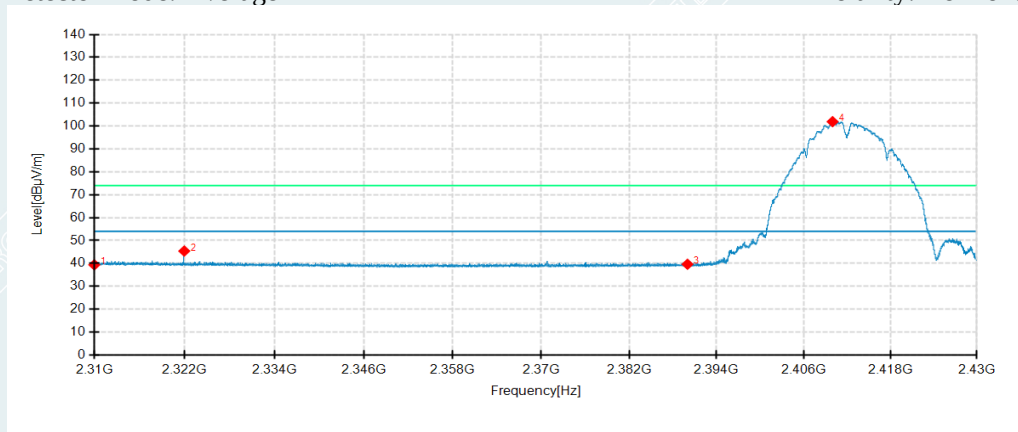
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

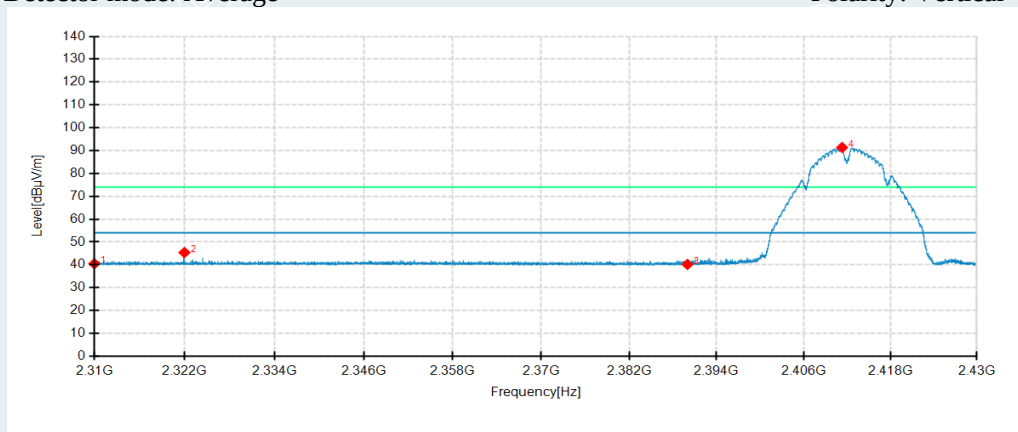
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	35.44	39.37	3.93	54.00	14.63	200	265	Horizontal	/
2	2321.9520	41.75	45.39	3.64	54.00	8.61	100	299	Horizontal	/
3	2390.0000	36.50	39.63	3.13	54.00	14.37	100	233	Horizontal	/
4	2409.9840	98.63	101.91	3.28	54.00	-47.91	200	265	Horizontal	No limit
1	2310.0000	35.98	40.49	4.51	54.00	13.51	200	336	Vertical	/
2	2321.9760	40.81	45.36	4.55	54.00	8.64	100	265	Vertical	/
3	2390.0000	35.89	40.16	4.27	54.00	13.84	100	64	Vertical	/
4	2411.3040	87.32	91.36	4.04	54.00	-37.36	200	105	Vertical	No limit

IEEE 802.11b mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

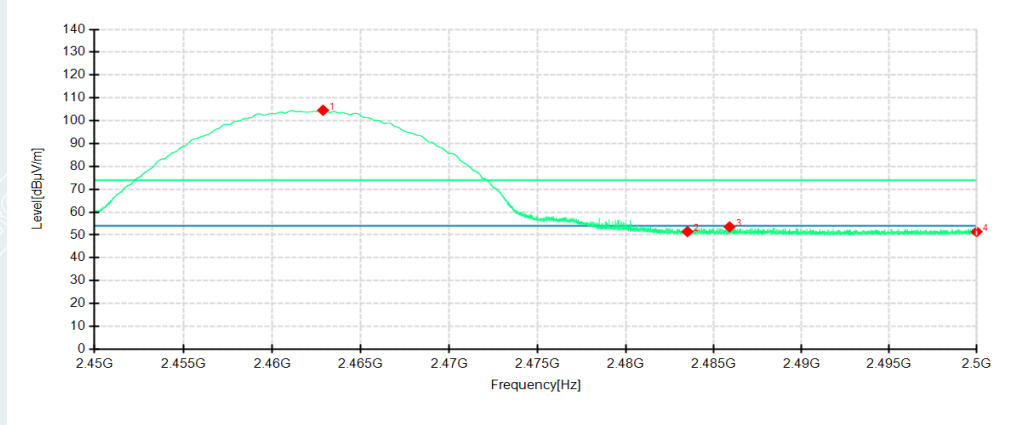
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

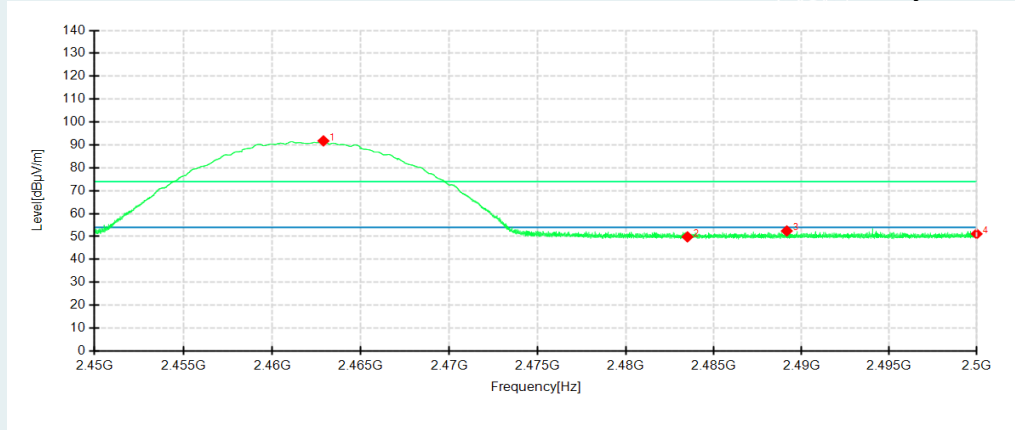
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBuV/m	Level dBuV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.8650	100.68	104.60	3.92	74.00	-30.60	100	128	Horizontal	No limit
2	2483.5000	47.14	51.47	4.33	74.00	22.53	200	9	Horizontal	/
3	2485.8950	49.17	53.54	4.37	74.00	20.46	100	294	Horizontal	/
4	2500.0000	46.77	51.42	4.65	74.00	22.58	200	187	Horizontal	/
1	2462.8850	88.14	91.76	3.62	74.00	-17.76	200	150	Vertical	No limit
2	2483.5000	46.15	49.84	3.69	74.00	24.16	100	154	Vertical	/
3	2489.1550	48.72	52.43	3.71	74.00	21.57	100	161	Vertical	/
4	2500.0000	47.40	51.15	3.75	74.00	22.85	100	259	Vertical	/

IEEE 802.11b mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

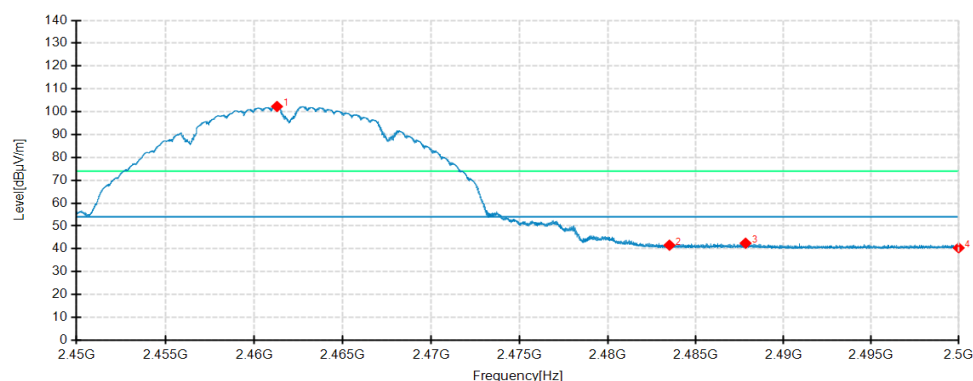
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

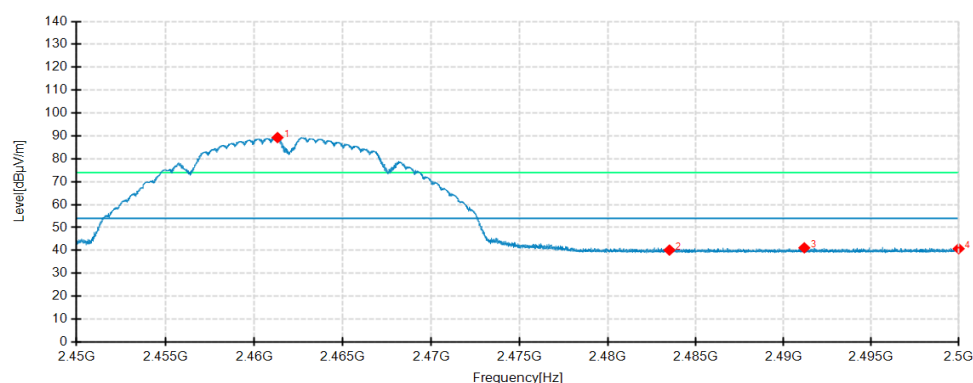
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2461.2850	98.41	102.30	3.89	54.00	-48.30	100	128	Horizontal	No limit
2	2483.5000	37.26	41.59	4.33	54.00	12.41	100	294	Horizontal	/
3	2487.8350	38.04	42.45	4.41	54.00	11.55	100	287	Horizontal	/
4	2500.0000	35.74	40.39	4.65	54.00	13.61	100	222	Horizontal	/
1	2461.3150	85.66	89.27	3.61	54.00	-35.27	200	154	Vertical	No limit
2	2483.5000	36.44	40.13	3.69	54.00	13.87	200	293	Vertical	/
3	2491.1800	37.40	41.12	3.72	54.00	12.88	100	265	Vertical	/
4	2500.0000	36.98	40.73	3.75	54.00	13.27	200	355	Vertical	/

IEEE 802.11g mode**Lowest Channel**

Frequency 2412MHz

Environment: 25°C/60%RH

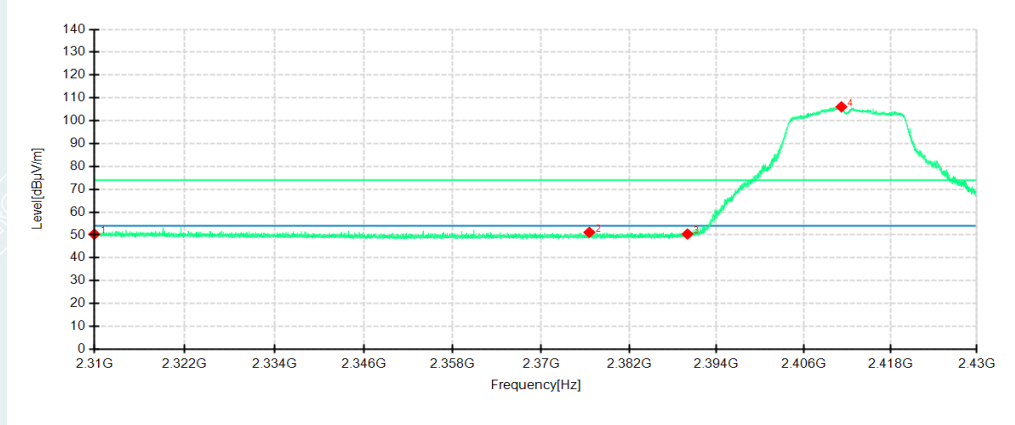
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

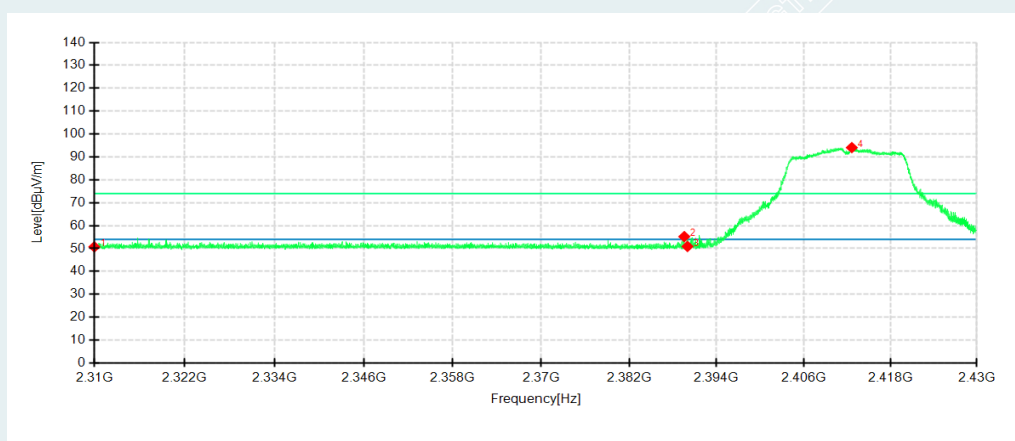
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	46.39	50.32	3.93	74.00	23.68	200	151	Horizontal	/
2	2376.5760	48.09	51.16	3.07	74.00	22.84	100	80	Horizontal	/
3	2390.0000	47.28	50.41	3.13	74.00	23.59	100	264	Horizontal	/
4	2411.2080	102.80	106.09	3.29	74.00	-32.09	100	264	Horizontal	No limit
1	2310.0000	46.21	50.72	4.51	74.00	23.28	100	313	Vertical	/
2	2389.5600	50.92	55.20	4.28	74.00	18.80	100	284	Vertical	/
3	2390.0000	46.63	50.90	4.27	74.00	23.10	100	261	Vertical	/
4	2412.6480	90.04	94.07	4.03	74.00	-20.07	200	170	Vertical	No limit

IEEE 802.11g mode**Lowest Channel**

Frequency 2412MHz

Environment: 25°C/60%RH

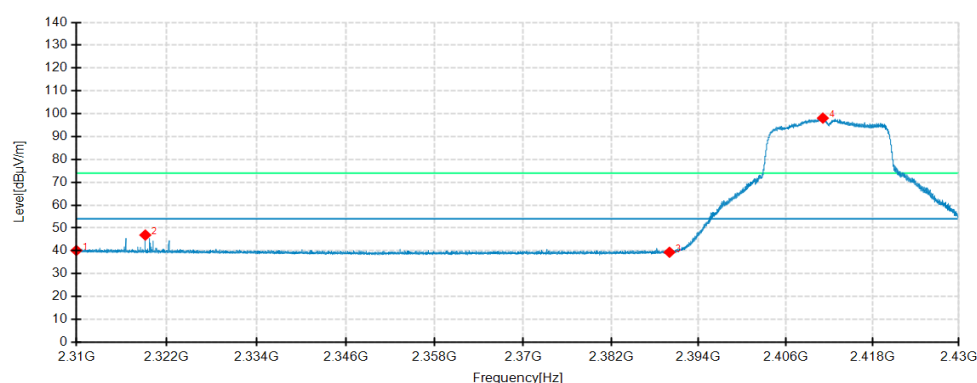
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

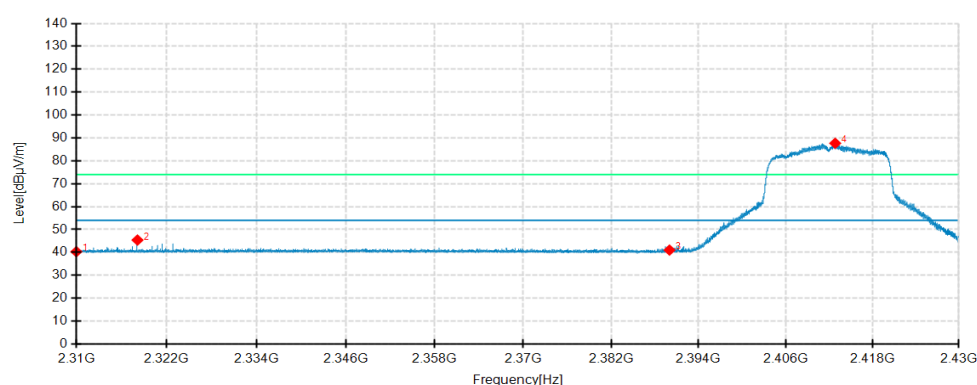
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	36.20	40.13	3.93	54.00	13.87	100	265	Horizontal	/
2	2319.1680	43.18	46.89	3.71	54.00	7.11	100	265	Horizontal	/
3	2390.0000	36.25	39.38	3.13	54.00	14.62	100	265	Horizontal	/
4	2411.1360	94.80	98.09	3.29	54.00	-44.09	100	265	Horizontal	No limit
1	2310.0000	35.80	40.31	4.51	54.00	13.69	100	96	Vertical	/
2	2318.1240	40.85	45.39	4.54	54.00	8.61	200	265	Vertical	/
3	2390.0000	36.74	41.01	4.27	54.00	12.99	100	223	Vertical	/
4	2412.8400	83.64	87.66	4.02	54.00	-33.66	200	105	Vertical	No limit

IEEE 802.11g mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

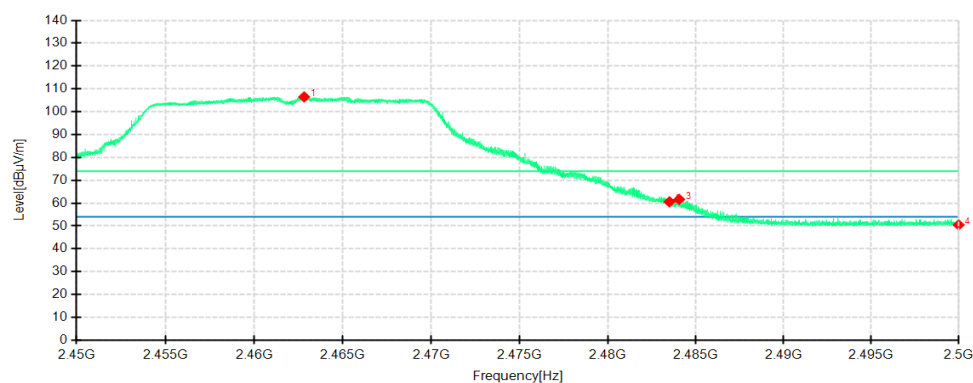
Tested By: Chen XiaoCong

Detector mode: Peak

Voltage: DC 12V

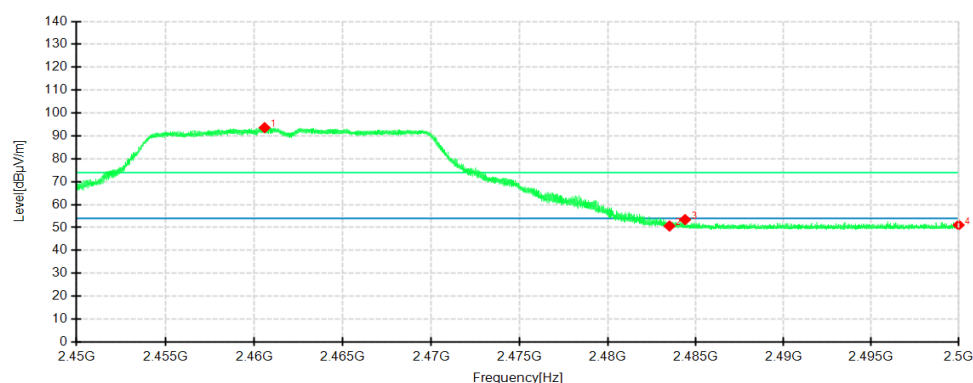
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBuV/m	Level dBuV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.8150	102.57	106.49	3.92	74.00	-32.49	100	127	Horizontal	No limit
2	2483.5000	56.24	60.57	4.33	74.00	13.43	100	121	Horizontal	/
3	2484.0550	57.29	61.63	4.34	74.00	12.37	200	282	Horizontal	/
4	2500.0000	45.79	50.44	4.65	74.00	23.56	100	150	Horizontal	/
1	2460.5850	89.98	93.59	3.61	74.00	-19.59	200	151	Vertical	No limit
2	2483.5000	46.97	50.66	3.69	74.00	23.34	100	96	Vertical	/
3	2484.3900	49.76	53.45	3.69	74.00	20.55	200	34	Vertical	/
4	2500.0000	47.33	51.08	3.75	74.00	22.92	100	316	Vertical	/

IEEE 802.11g mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

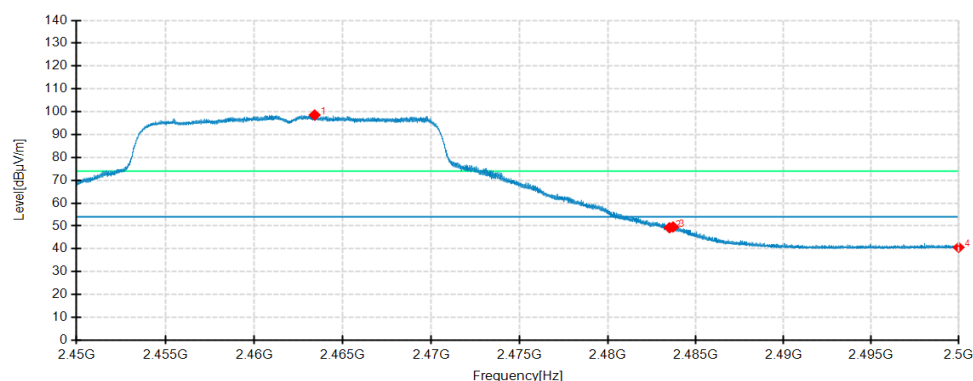
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

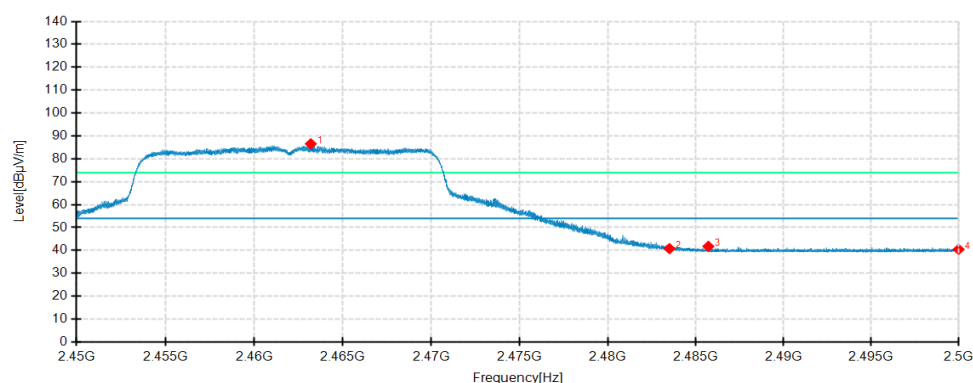
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBuV/m	Level dBuV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2463.4050	94.65	98.58	3.93	54.00	-44.58	100	126	Horizontal	No limit
2	2483.5000	44.88	49.21	4.33	54.00	4.79	100	262	Horizontal	/
3	2483.7050	45.23	49.56	4.33	54.00	4.44	100	266	Horizontal	/
4	2500.0000	35.97	40.62	4.65	54.00	13.38	100	181	Horizontal	/
1	2463.1900	82.94	86.56	3.62	54.00	-32.56	200	151	Vertical	No limit
2	2483.5000	37.07	40.76	3.69	54.00	13.24	200	47	Vertical	/
3	2485.7150	38.05	41.75	3.70	54.00	12.25	100	308	Vertical	/
4	2500.0000	36.70	40.45	3.75	54.00	13.55	200	132	Vertical	/

IEEE 802.11n HT20 mode**Lowest Channel**

Frequency 2412MHz

Environment: 25°C/60%RH

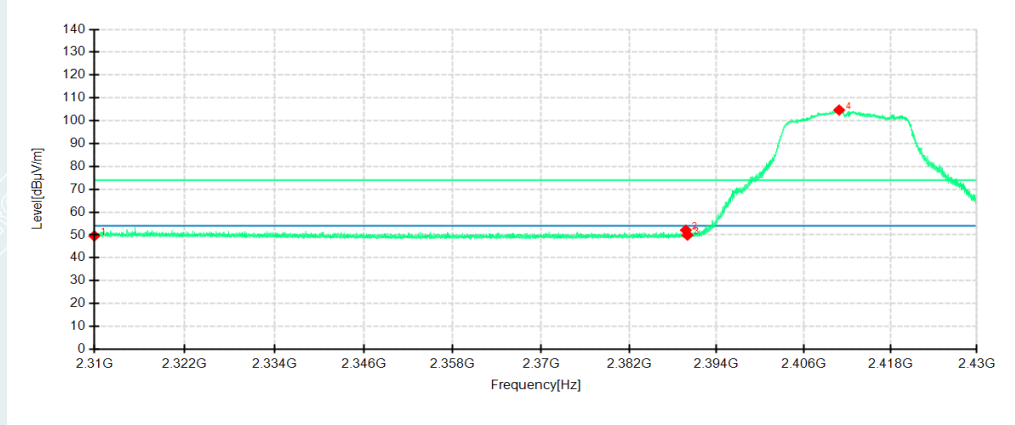
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

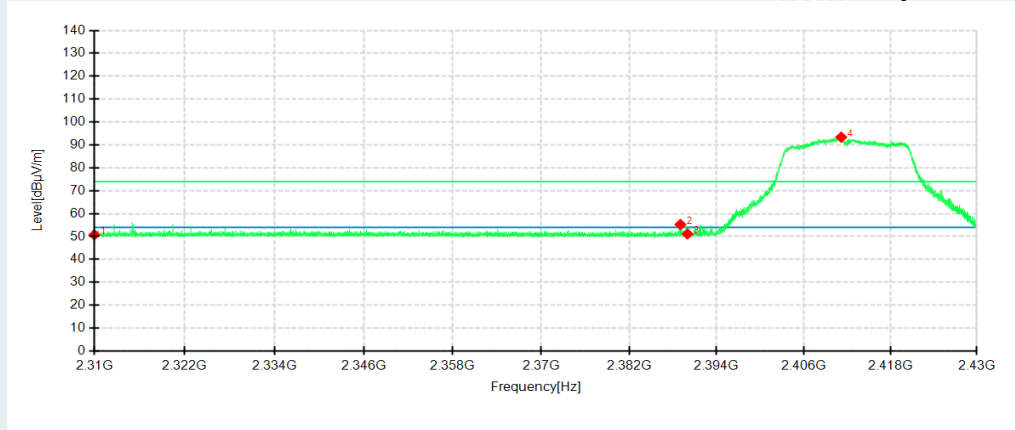
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBuV/m	Level dBuV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	45.64	49.57	3.93	74.00	24.43	100	102	Horizontal	/
2	2389.7760	48.98	52.11	3.13	74.00	21.89	100	239	Horizontal	/
3	2390.0000	46.83	49.96	3.13	74.00	24.04	100	239	Horizontal	/
4	2410.8960	101.39	104.68	3.29	74.00	-30.68	100	265	Horizontal	No limit
1	2310.0000	46.23	50.74	4.51	74.00	23.26	100	312	Vertical	/
2	2389.0320	50.97	55.25	4.28	74.00	18.75	100	281	Vertical	/
3	2390.0000	46.82	51.09	4.27	74.00	22.91	200	265	Vertical	/
4	2411.1840	89.34	93.38	4.04	74.00	-19.38	200	37	Vertical	No limit

IEEE 802.11n HT20 mode**Lowest Channel**

Frequency 2412MHz

Environment: 25°C/60%RH

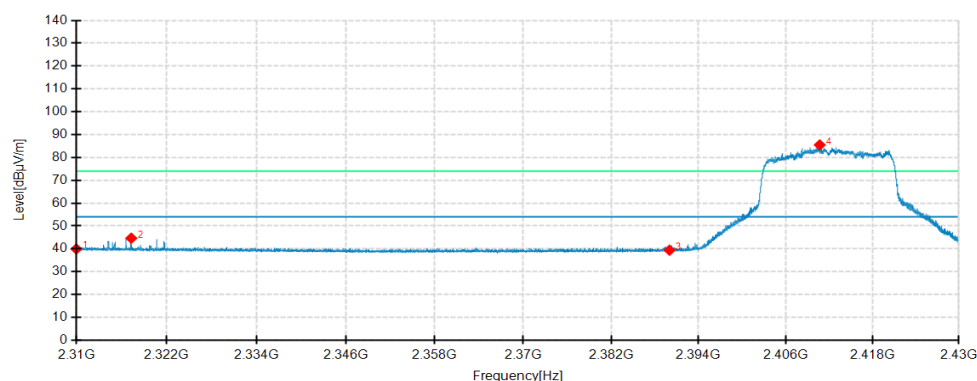
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

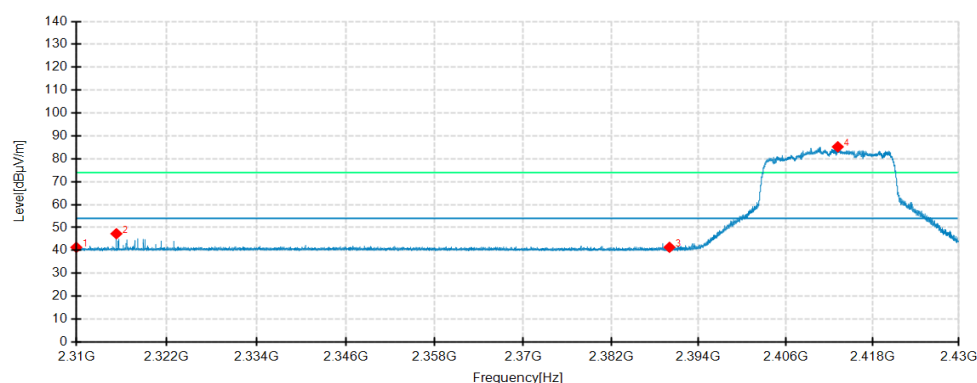
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	36.00	39.93	3.93	54.00	14.07	200	355	Horizontal	/
2	2317.2960	40.91	44.66	3.75	54.00	9.34	100	115	Horizontal	/
3	2390.0000	36.27	39.40	3.13	54.00	14.60	100	265	Horizontal	/
4	2410.7040	82.19	85.47	3.28	54.00	-31.47	200	171	Horizontal	No limit
1	2310.0000	36.81	41.32	4.51	54.00	12.68	200	264	Vertical	/
2	2315.3160	42.76	47.29	4.53	54.00	6.71	200	264	Vertical	/
3	2390.0000	37.09	41.36	4.27	54.00	12.64	100	288	Vertical	/
4	2413.2000	81.22	85.24	4.02	54.00	-31.24	100	95	Vertical	No limit

IEEE 802.11n HT20 mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

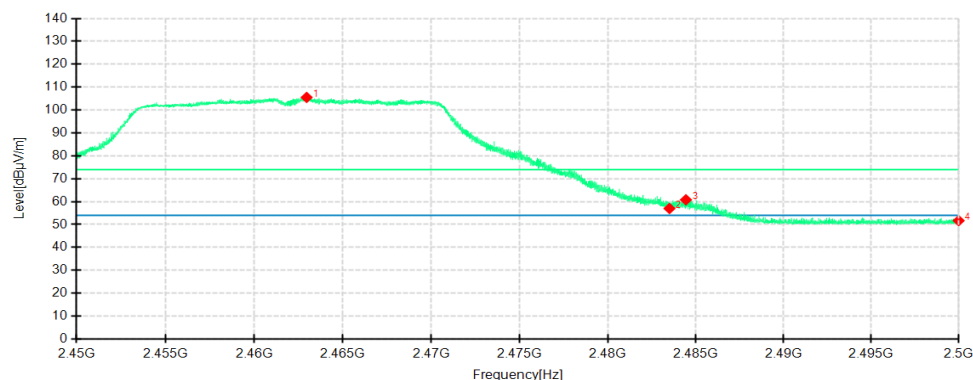
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

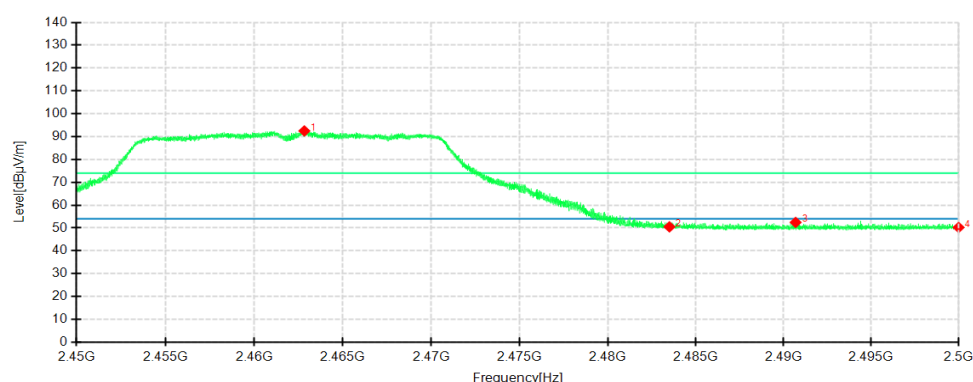
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.9550	101.59	105.51	3.92	74.00	-31.51	100	127	Horizontal	No limit
2	2483.5000	52.67	57.00	4.33	74.00	17.00	200	118	Horizontal	/
3	2484.4350	56.45	60.79	4.34	74.00	13.21	200	274	Horizontal	/
4	2500.0000	47.04	51.69	4.65	74.00	22.31	100	71	Horizontal	/
1	2462.8250	88.86	92.48	3.62	74.00	-18.48	200	150	Vertical	No limit
2	2483.5000	46.80	50.49	3.69	74.00	23.51	100	323	Vertical	/
3	2490.6850	48.73	52.45	3.72	74.00	21.55	100	258	Vertical	/
4	2500.0000	46.48	50.23	3.75	74.00	23.77	100	157	Vertical	/

IEEE 802.11n HT20 mode**Highest Channel**

Frequency 2462MHz

Environment: 25°C/60%RH

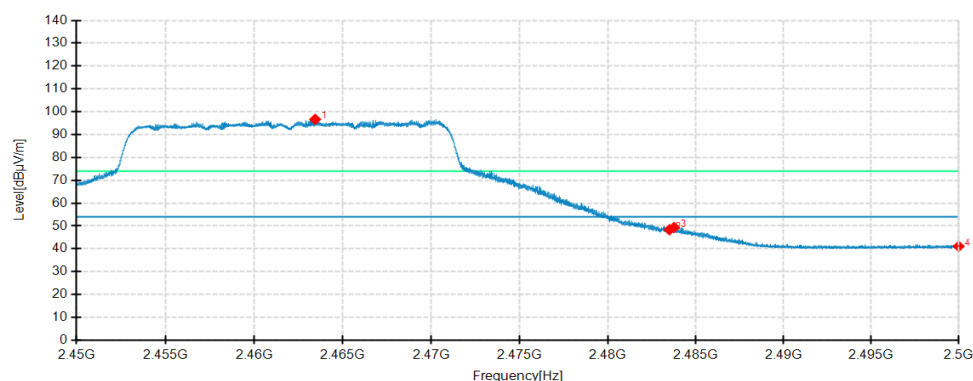
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

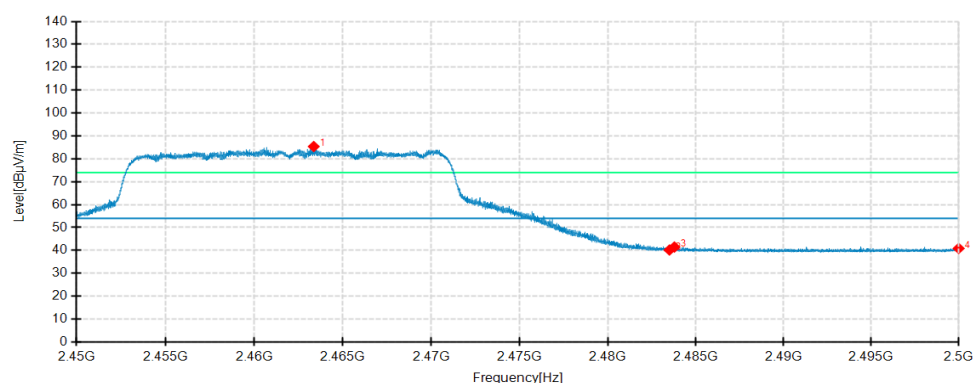
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

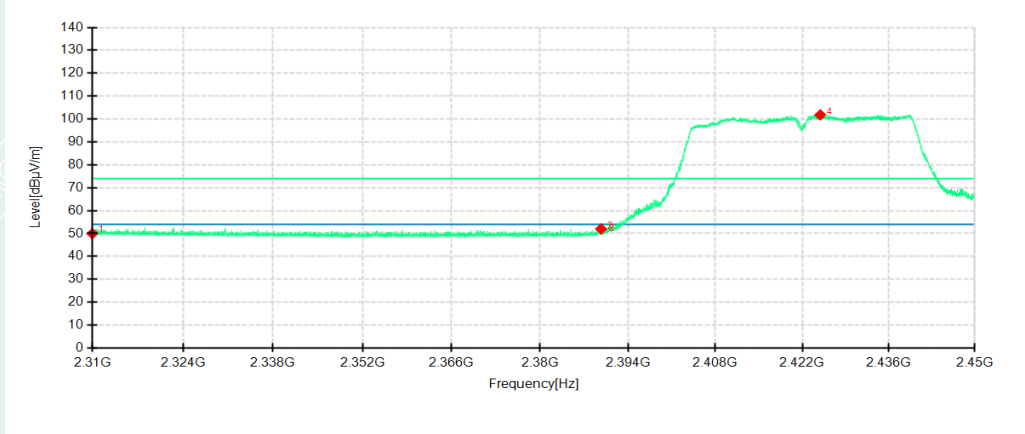
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2463.4350	92.74	96.67	3.93	54.00	-42.67	100	118	Horizontal	No limit
2	2483.5000	44.01	48.34	4.33	54.00	5.66	100	265	Horizontal	/
3	2483.7600	45.02	49.35	4.33	54.00	4.65	100	265	Horizontal	/
4	2500.0000	36.42	41.07	4.65	54.00	12.93	100	265	Horizontal	/
1	2463.3550	81.75	85.37	3.62	54.00	-31.37	200	150	Vertical	No limit
2	2483.5000	36.49	40.18	3.69	54.00	13.82	200	42	Vertical	/
3	2483.7800	37.77	41.46	3.69	54.00	12.54	100	325	Vertical	/
4	2500.0000	37.11	40.86	3.75	54.00	13.14	100	253	Vertical	/

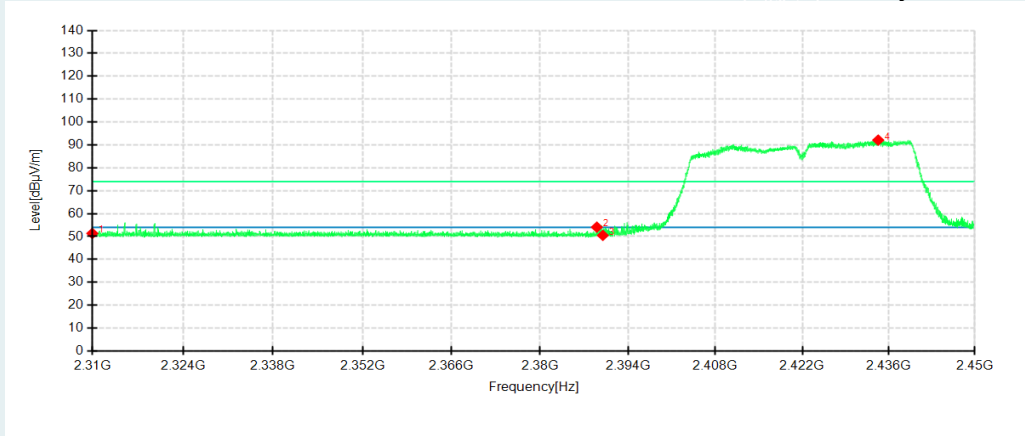
IEEE 802.11n HT40 mode
Lowest Channel
Frequency 2422MHz
Environment: 25℃/60%RH
Tested By: Lu Qiang
Detector mode: Peak

Voltage: DC 12V
Date: 2022-04-07
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	46.03	49.96	3.93	74.00	24.04	200	22	Horizontal	/
2	2389.7160	48.86	51.99	3.13	74.00	22.01	100	95	Horizontal	/
3	2390.0000	47.82	50.95	3.13	74.00	23.05	100	134	Horizontal	/
4	2424.9120	98.39	101.81	3.42	74.00	-27.81	100	130	Horizontal	No limit
1	2310.0000	46.85	51.36	4.51	74.00	22.64	100	1	Vertical	/
2	2389.0440	49.81	54.09	4.28	74.00	19.91	100	264	Vertical	/
3	2390.0000	46.23	50.50	4.27	74.00	23.50	100	0	Vertical	/
4	2434.2920	88.34	92.10	3.76	74.00	-18.10	100	10	Vertical	No limit

IEEE 802.11n HT40 mode**Lowest Channel**

Frequency 2422MHz

Environment: 25°C/60%RH

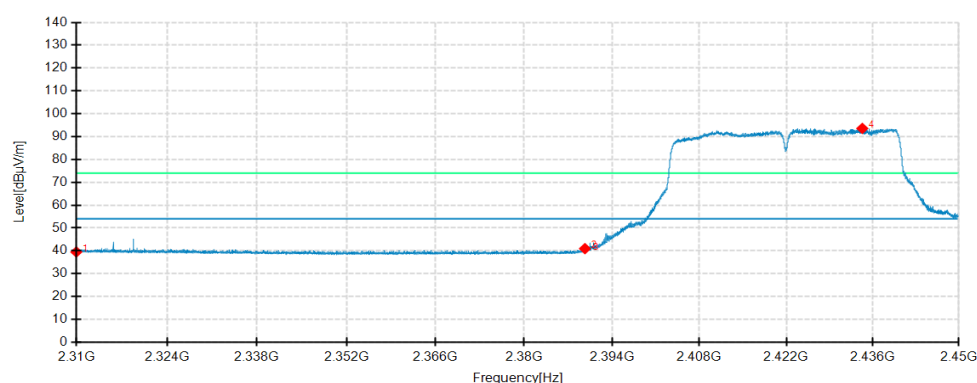
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

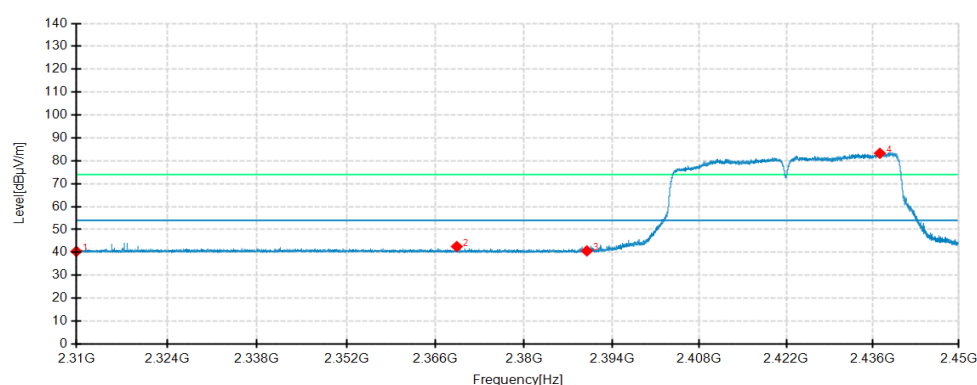
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310.0000	35.56	39.49	3.93	54.00	14.51	100	95	Horizontal	/
2	2389.7020	37.82	40.95	3.13	54.00	13.05	200	265	Horizontal	/
3	2390.0000	36.78	39.91	3.13	54.00	14.09	100	271	Horizontal	/
4	2434.3060	90.06	93.58	3.52	54.00	-39.58	100	131	Horizontal	No limit
1	2310.0000	35.93	40.44	4.51	54.00	13.56	200	118	Vertical	/
2	2369.3600	38.11	42.58	4.47	54.00	11.42	200	108	Vertical	/
3	2390.0000	36.37	40.64	4.27	54.00	13.36	200	216	Vertical	/
4	2437.1620	79.56	83.29	3.73	54.00	-29.29	100	13	Vertical	No limit

IEEE 802.11n HT40 mode**Highest Channel**

Frequency 2452MHz

Environment: 25°C/60%RH

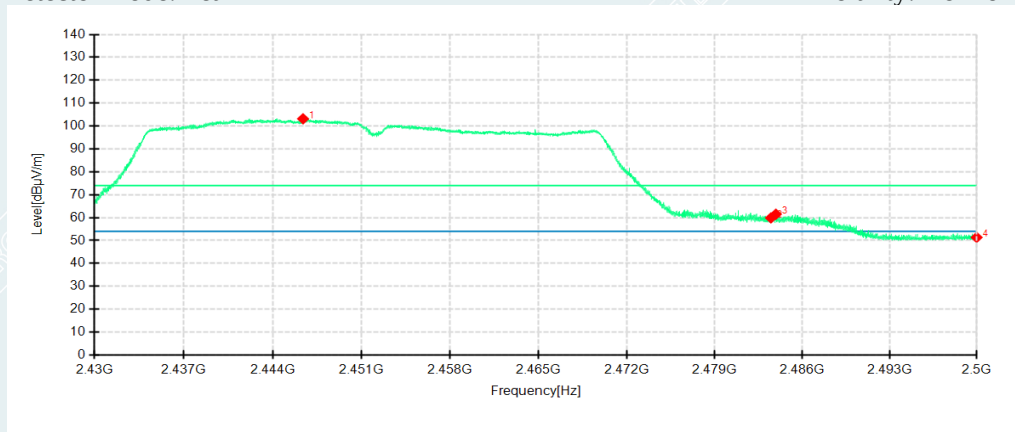
Tested By: Lu Qiang

Detector mode: Peak

Voltage: DC 12V

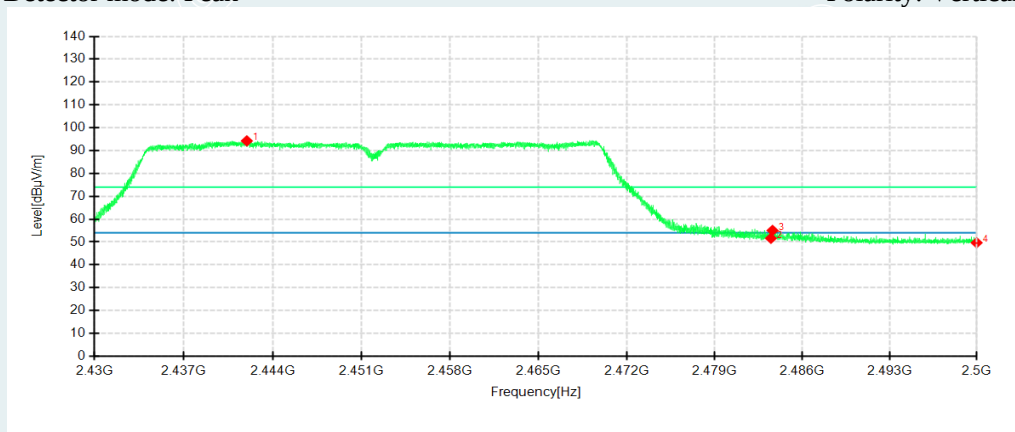
Date: 2022-04-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2446.3800	99.52	103.15	3.63	74.00	-29.15	200	254	Horizontal	No limit
2	2483.5000	55.54	59.87	4.33	74.00	14.13	200	254	Horizontal	/
3	2483.8930	57.14	61.47	4.33	74.00	12.53	100	235	Horizontal	/
4	2500.0000	46.70	51.35	4.65	74.00	22.65	200	228	Horizontal	/
1	2441.9560	90.58	94.25	3.67	74.00	-20.25	100	94	Vertical	No limit
2	2483.5000	47.91	51.60	3.69	74.00	22.40	200	264	Vertical	/
3	2483.6270	51.37	55.06	3.69	74.00	18.94	200	264	Vertical	/
4	2500.0000	45.91	49.66	3.75	74.00	24.34	200	117	Vertical	/

IEEE 802.11n HT40 mode**Highest Channel**

Frequency 2452MHz

Environment: 25°C/60%RH

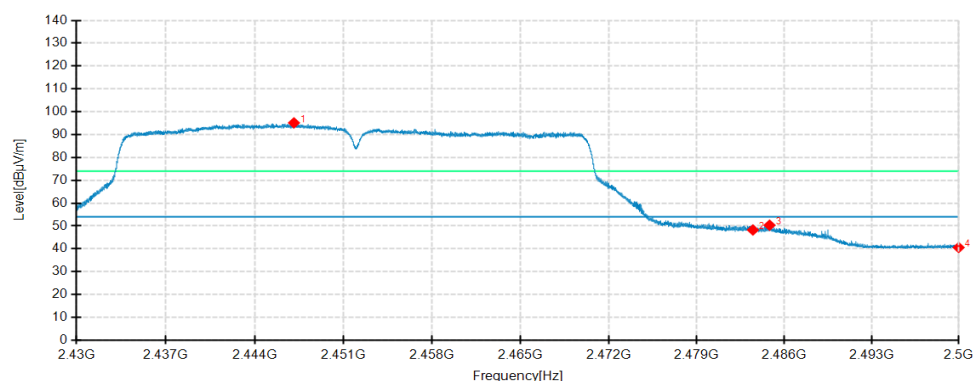
Tested By: Lu Qiang

Detector mode: Average

Voltage: DC 12V

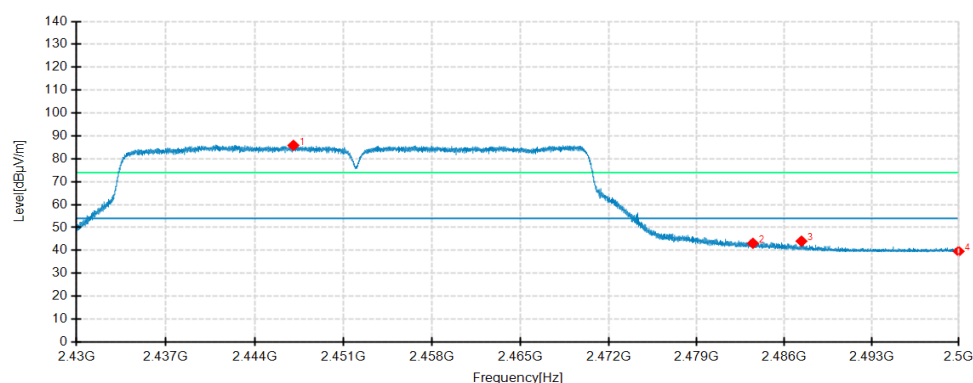
Date: 2022-04-07

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2447.0800	91.49	95.13	3.64	54.00	-41.13	100	251	Horizontal	No limit
2	2483.5000	43.91	48.24	4.33	54.00	5.76	200	254	Horizontal	/
3	2484.8310	45.98	50.33	4.35	54.00	3.67	100	255	Horizontal	/
4	2500.0000	35.92	40.57	4.65	54.00	13.43	100	128	Horizontal	/
1	2447.0380	82.28	85.89	3.61	54.00	-31.89	100	96	Vertical	No limit
2	2483.5000	39.42	43.11	3.69	54.00	10.89	100	96	Vertical	/
3	2487.3860	40.34	44.04	3.70	54.00	9.96	100	96	Vertical	/
4	2500.0000	35.84	39.59	3.75	54.00	14.41	200	70	Vertical	/

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20211217696105-10-Test photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20211217696105-11-EUT photo.

----- End of Report -----