

8.4 TEST RESULT

Environment: 25°C/60%RH
 Tested By:Deng Weihao

Voltage:AC120V/60Hz
 Date: 2022/02/15

802.11b Mode :

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	18.05	Peak	30dBm	Pass
6	2437	18.53			Pass
11	2462	18.67			Pass

802.11g Mode :

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	23.76	Peak	30dBm	Pass
6	2437	24.12			Pass
11	2462	24.14			Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak/ AVG	Limit	Result
1	2412	22.87	Peak	30dBm	Pass
6	2437	22.98			Pass
11	2462	23.33			Pass

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

9. POWER SPECTRAL DENSITY

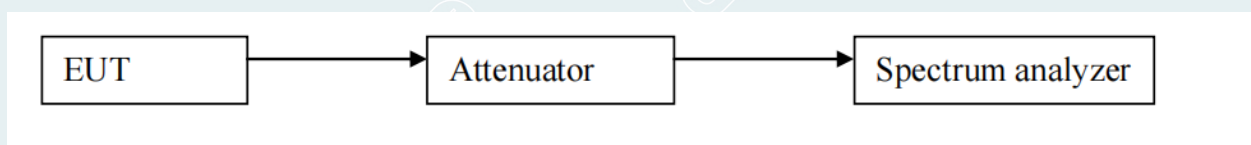
9.1 LIMITS

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 $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = average
 - 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: 25°C/60%RH

Tested By:Deng Weihao

Voltage:AC120V/60Hz

Date: 2022/02/19

802.11b Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-14.94	8.00	Pass
6	2437	-14.87	8.00	Pass
11	2462	-15.11	8.00	Pass

802.11g Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-18.85	8.00	Pass
6	2437	-18.74	8.00	Pass
11	2462	-18.81	8.00	Pass

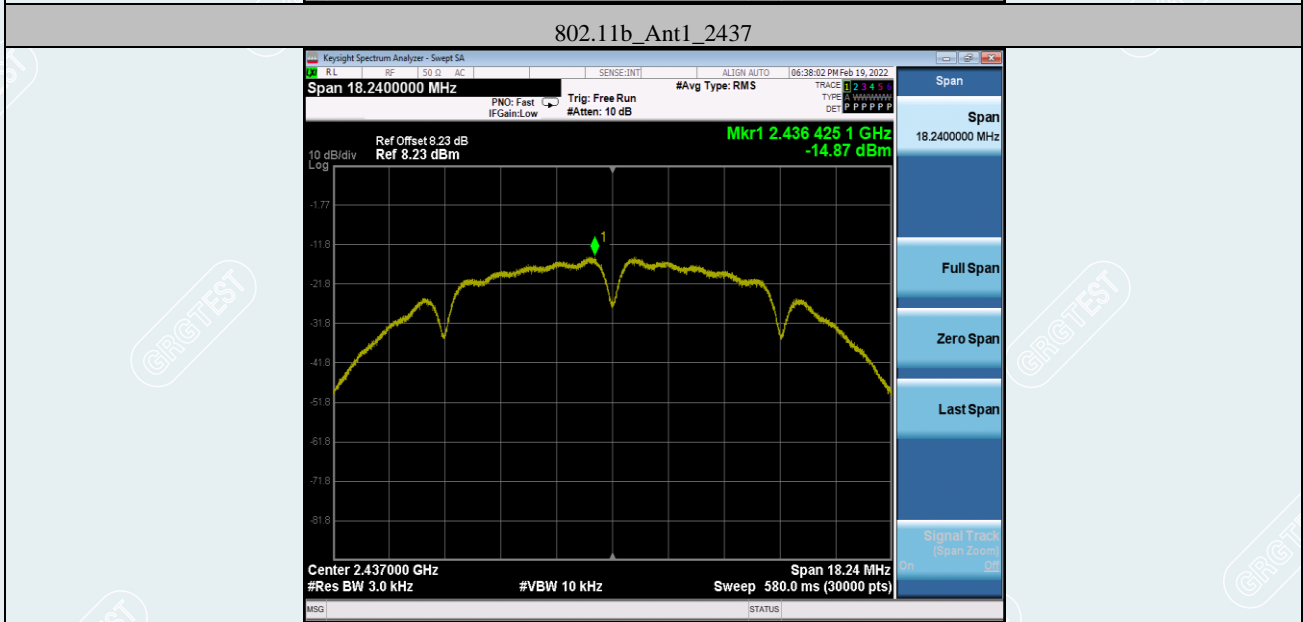
802.11n HT20 Mode:

Channel No.	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-20.14	8.00	Pass
6	2437	-20.11	8.00	Pass
11	2462	-20.22	8.00	Pass

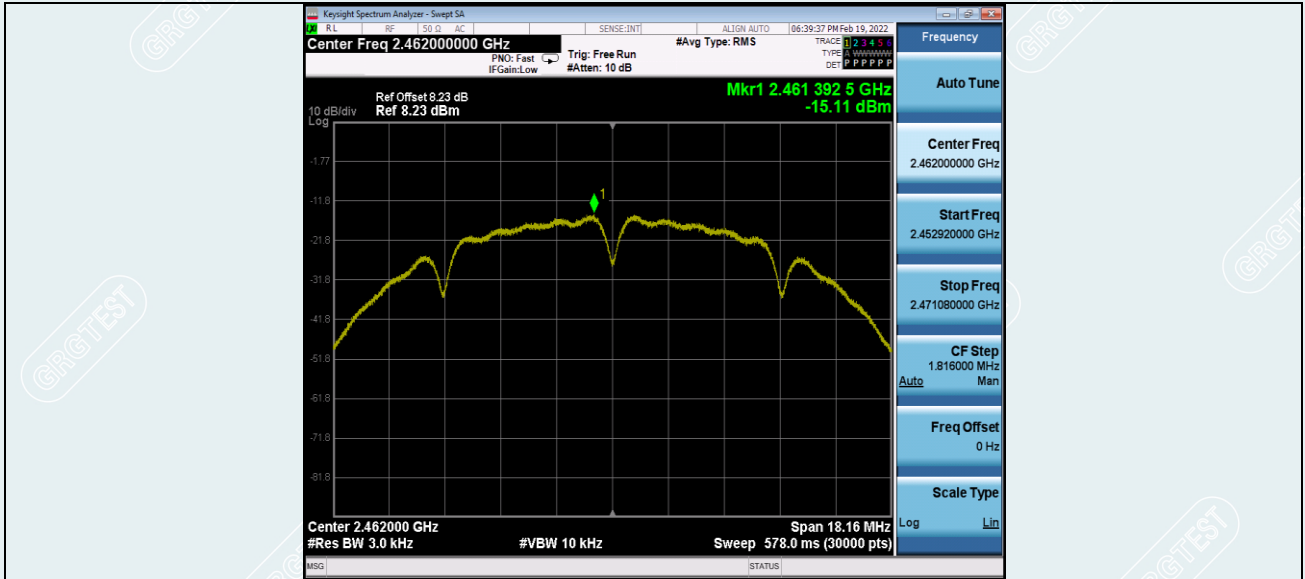
802.11b_Ant1_2412



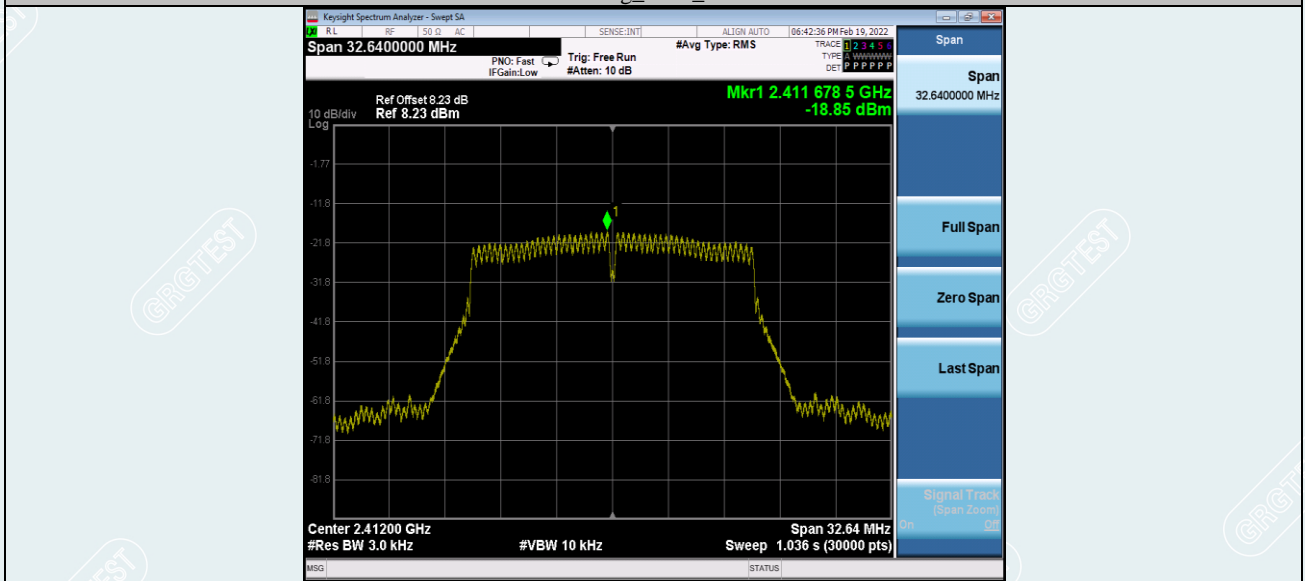
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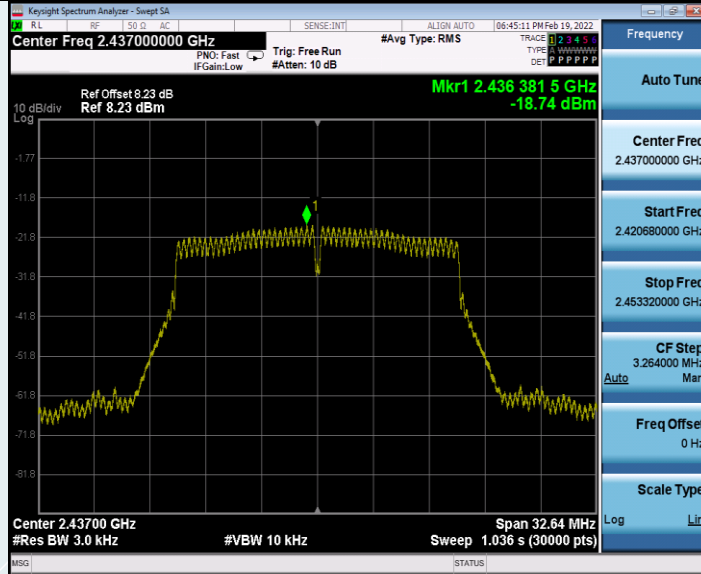
802.11b_Ant1_2462



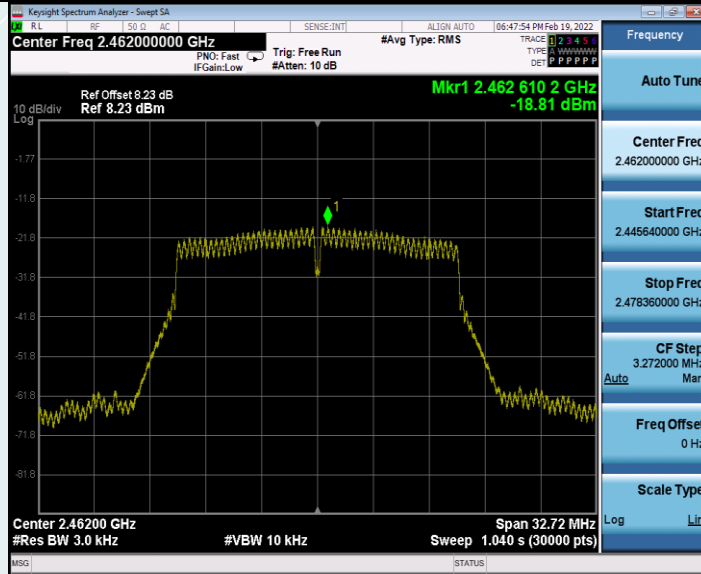
802.11g_Ant1_2412



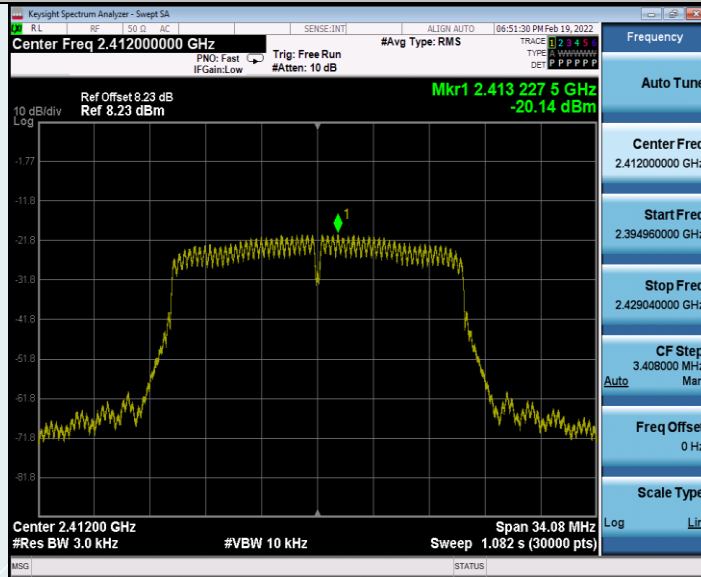
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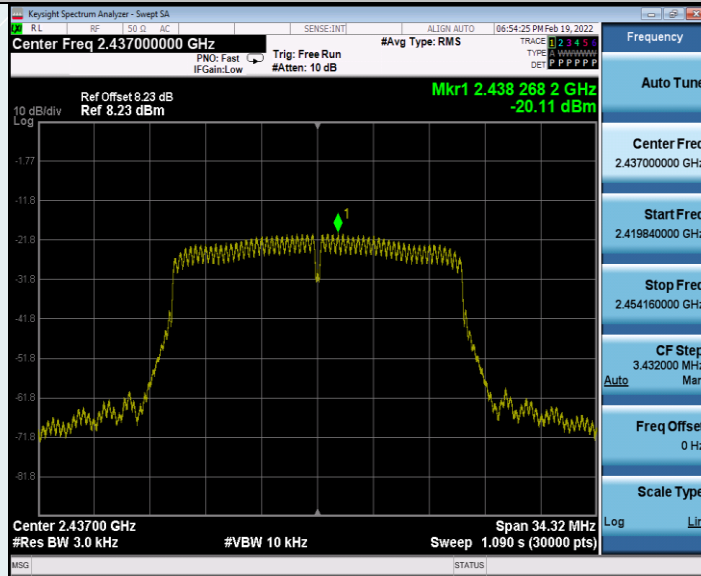
802.11g_Ant1_2462

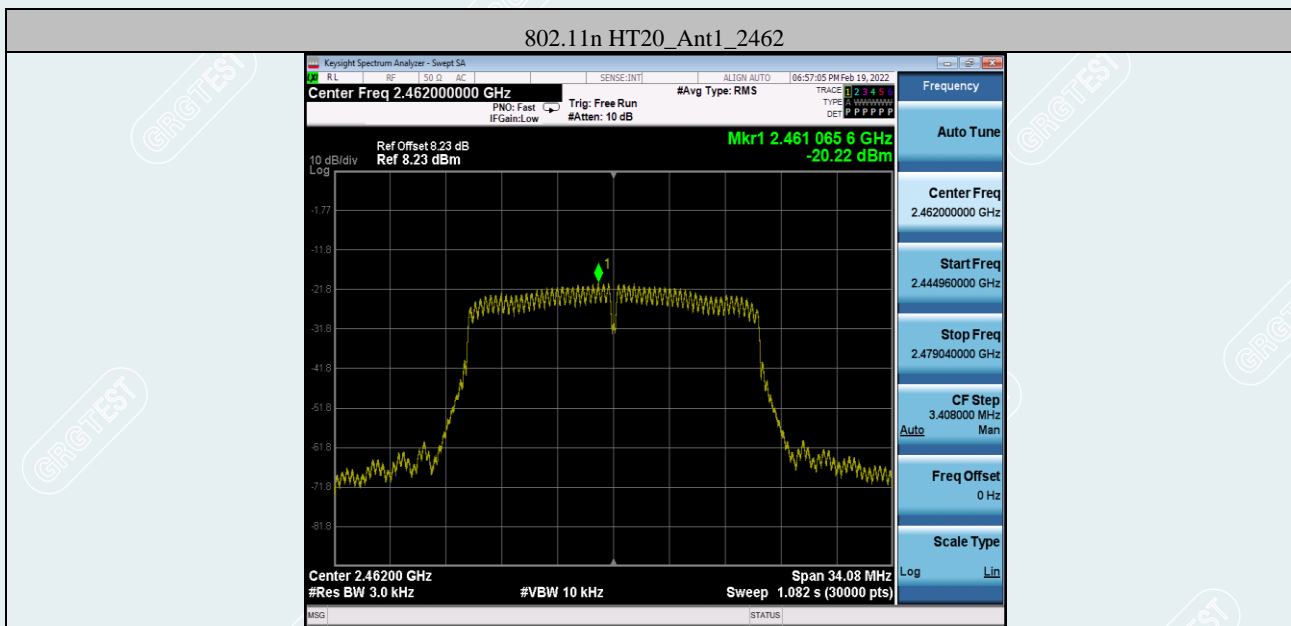


802.11n HT20_Ant1_2412



802.11n HT20_Ant1_2437





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10. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

10.1 LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

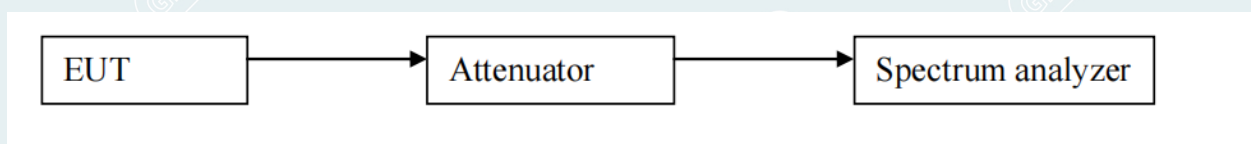
10.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW =100kHz; VBW =300kHz, Frequency range = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak; Trace = Max hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

10.3 TEST SETUP



10.4 TEST RESULTS

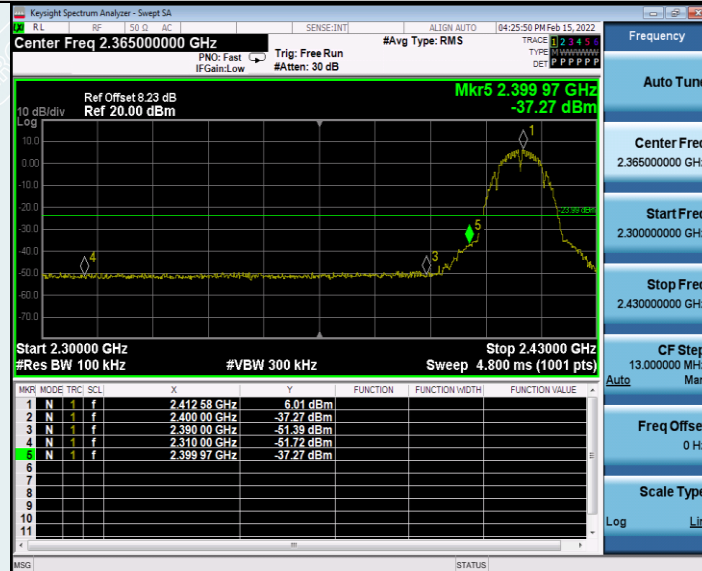
Environment: 25°C/60%RH
 Tested By:Deng Weihao

Voltage:AC120V/60Hz
 Date: 2022/02/15

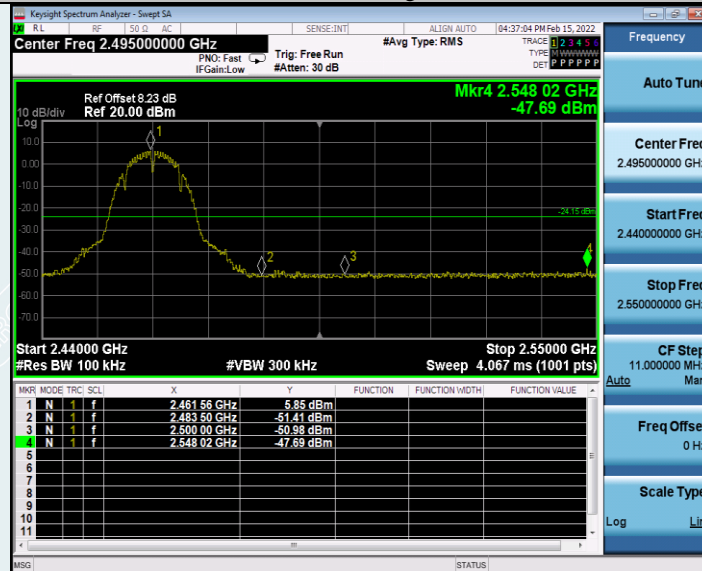
Band edge

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	6.01	-37.27	≤-23.99	PASS
	Ant1	High	2462	5.85	-47.69	≤-24.15	PASS
802.11g	Ant1	Low	2412	2.96	-36.25	≤-27.04	PASS
	Ant1	High	2462	2.71	-42.46	≤-27.29	PASS
802.11n HT20	Ant1	Low	2412	1.97	-39.08	≤-28.03	PASS
	Ant1	High	2462	1.50	-47.12	≤-28.51	PASS

802.11b_Ant1_Low_2412



802.11b_Ant1_High_2462



802.11g_Ant1_Low_2412



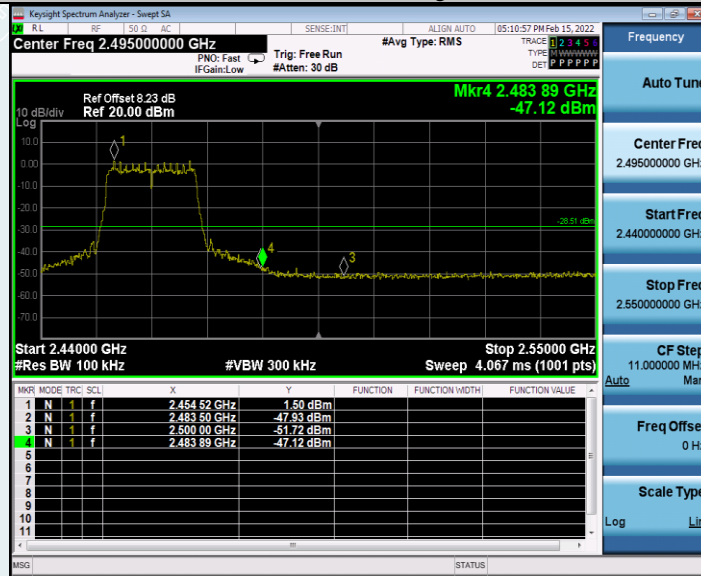
802.11g_Ant1_High_2462



802.11n HT20_Ant1_Low_2412



802.11n HT20_Ant1_High_2462

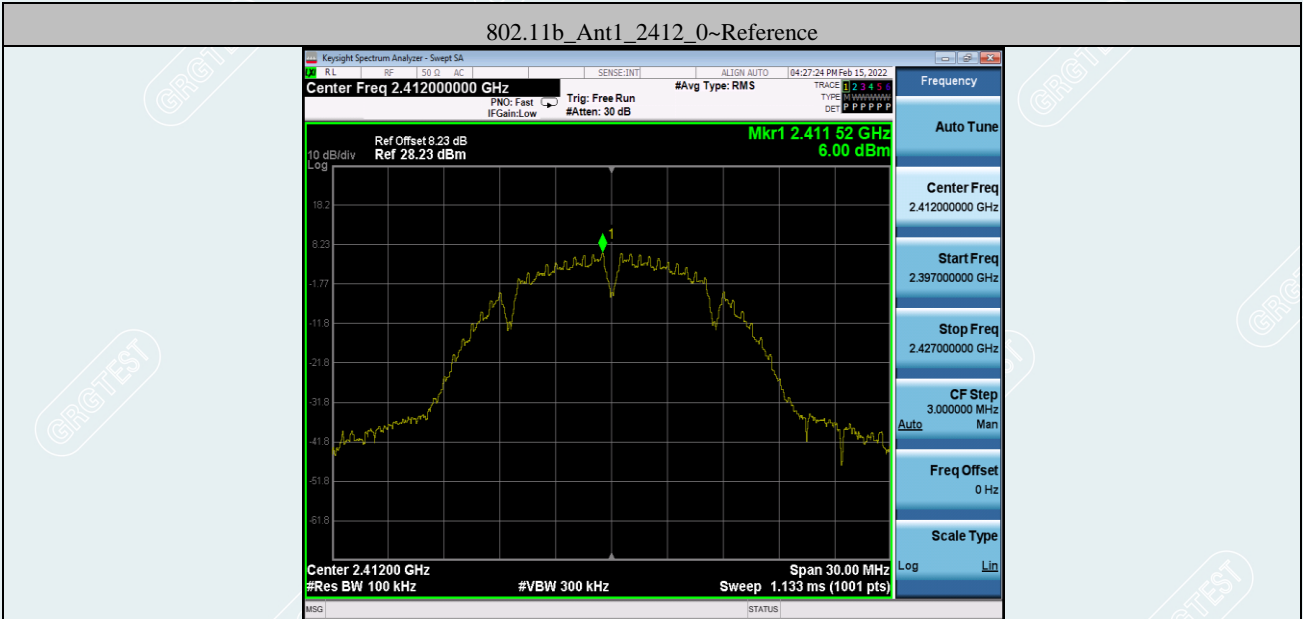


Conducted Spurious Emission:
 Test Result
 Environment: 25°C/60%RH
 Tested By:Deng Weihao

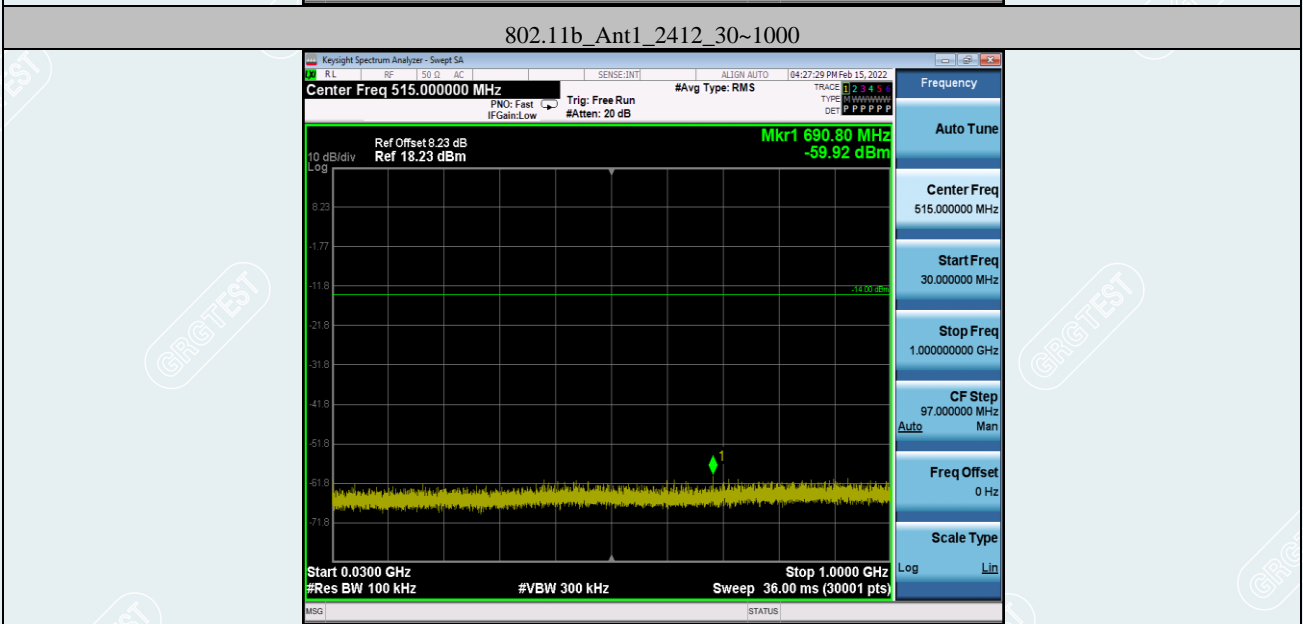
Voltage:AC120V/60Hz
 Date: 2022/02/15

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	6.00	6.00	---	PASS
			30~1000	6.00	-59.92	≤-14	PASS
			1000~26500	6.00	-41.56	≤-14	PASS
	Ant1	2437	Reference	6.06	6.06	---	PASS
			30~1000	6.06	-59.83	≤-13.95	PASS
			1000~26500	6.06	-41.9	≤-13.95	PASS
	Ant1	2462	Reference	5.85	5.85	---	PASS
			30~1000	5.85	-59.44	≤-14.15	PASS
			1000~26500	5.85	-41.75	≤-14.15	PASS
802.11g	Ant1	2412	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-60.46	≤-16.9	PASS
			1000~26500	3.10	-42.23	≤-16.9	PASS
	Ant1	2437	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-59.37	≤-16.9	PASS
			1000~26500	3.10	-42.72	≤-16.9	PASS
	Ant1	2462	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-59.49	≤-17.32	PASS
			1000~26500	2.68	-41.26	≤-17.32	PASS
802.11n HT20	Ant1	2412	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-60.13	≤-18.02	PASS
			1000~26500	1.98	-42.5	≤-18.02	PASS
	Ant1	2437	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-60.71	≤-18.03	PASS
			1000~26500	1.97	-42.27	≤-18.03	PASS
	Ant1	2462	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-59.69	≤-18.36	PASS
			1000~26500	1.64	-42.43	≤-18.36	PASS

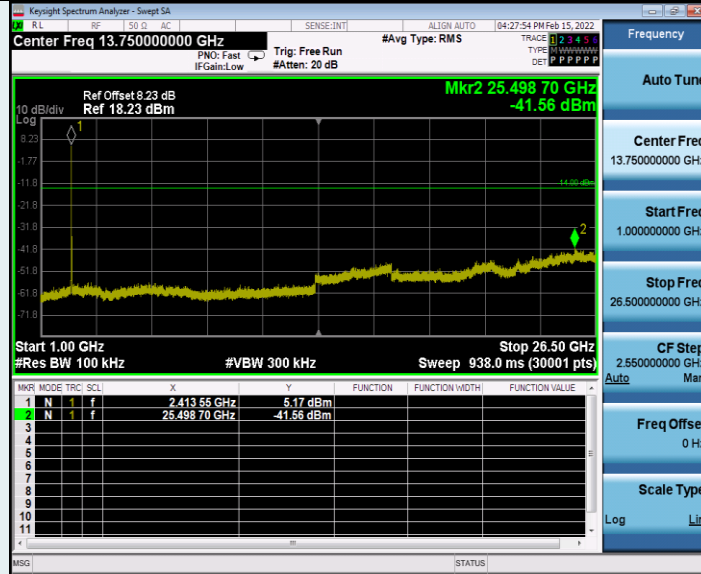
802.11b_Ant1_2412_0~Reference



802.11b_Ant1_2412_30~1000



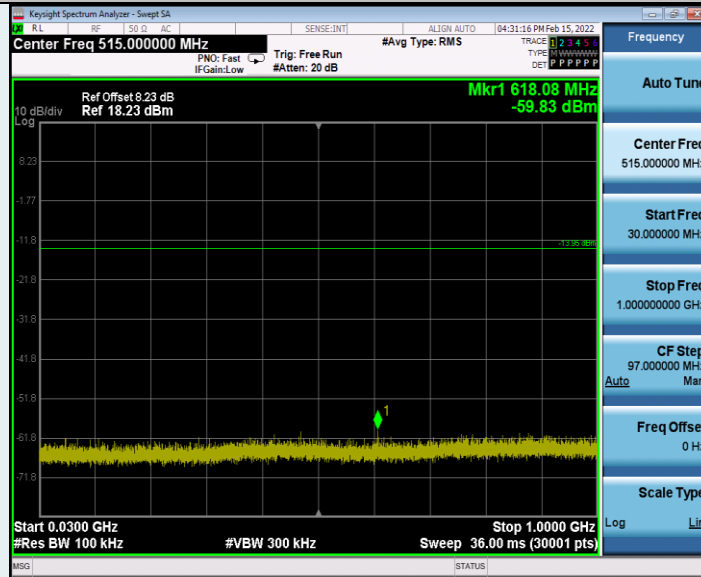
802.11b_Ant1_2412_1000~26500



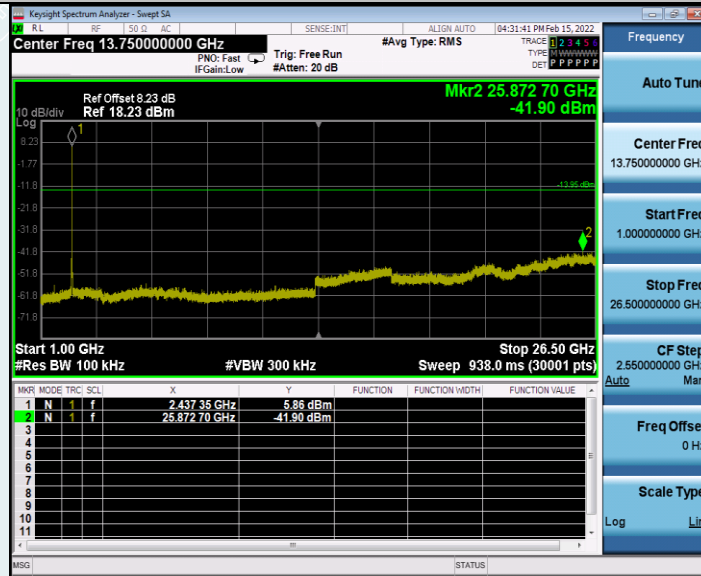
802.11b_Ant1_2437_0~Reference



802.11b_Ant1_2437_30~1000



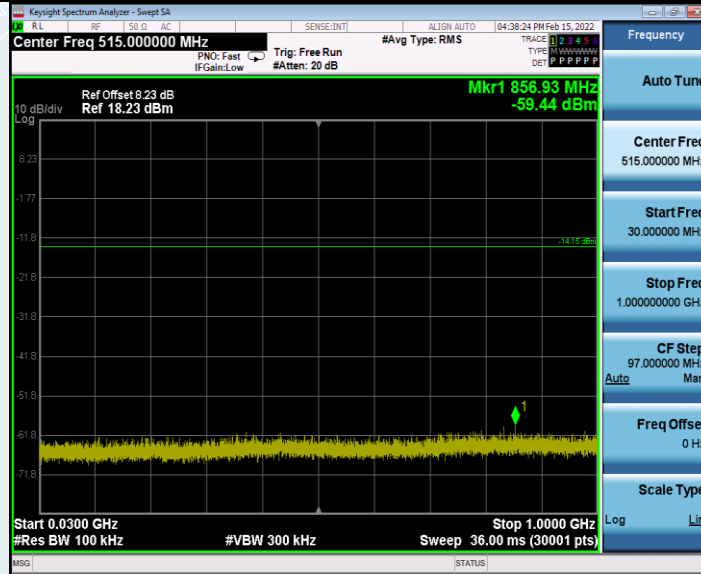
802.11b_Ant1_2437_1000~26500



802.11b_Ant1_2462_0~Reference



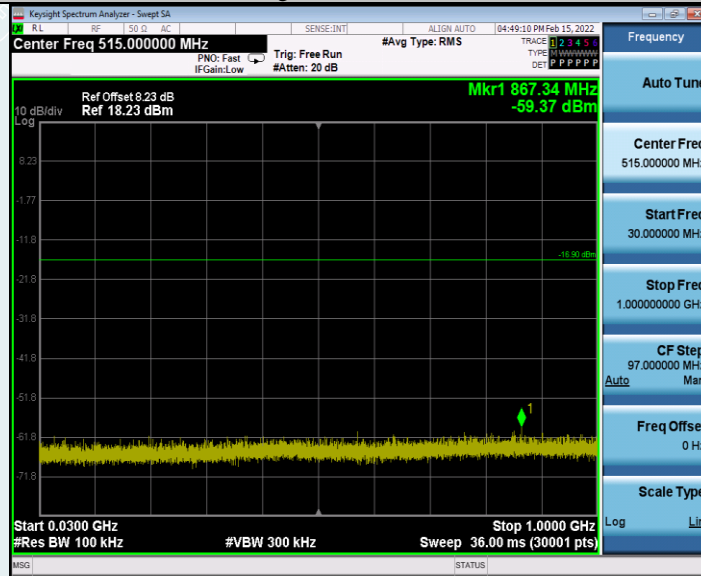
802.11b_Ant1_2462_30~1000



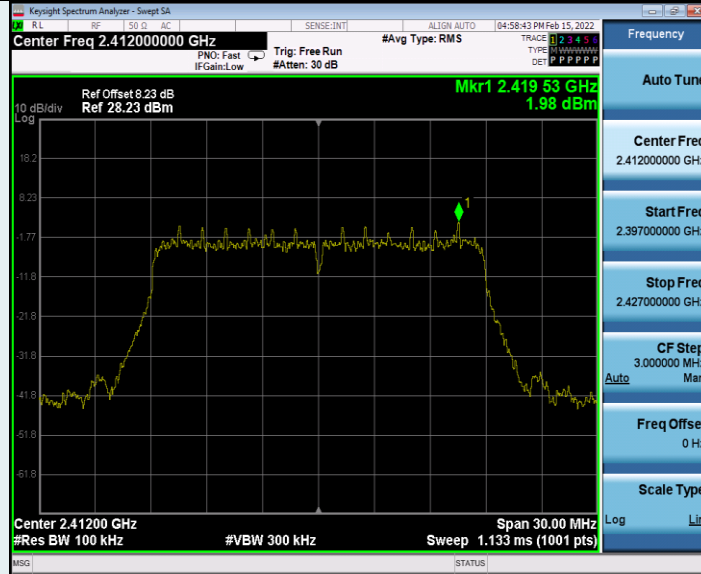
802.11g_Ant1_2437_0~Reference



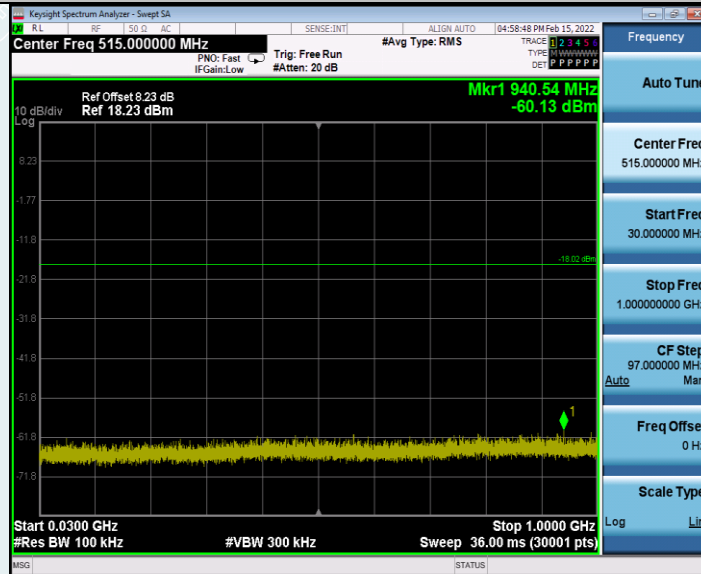
802.11g_Ant1_2437_30~1000



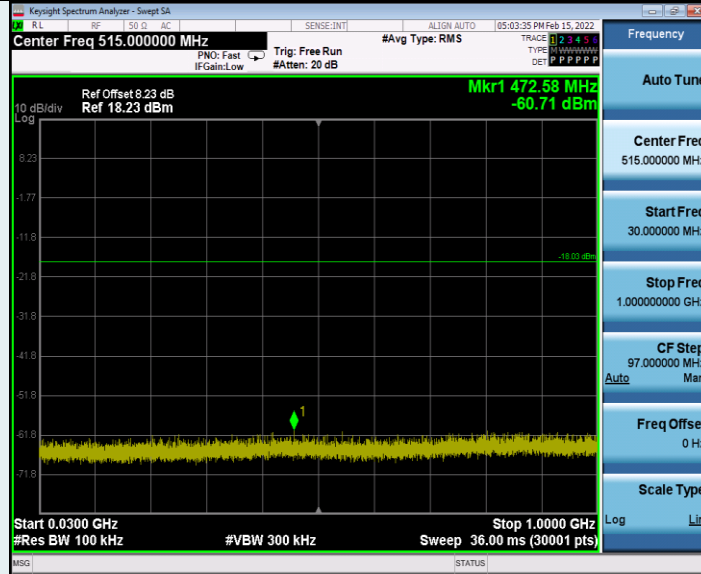
802.11n HT20_Ant1_2412_0~Reference



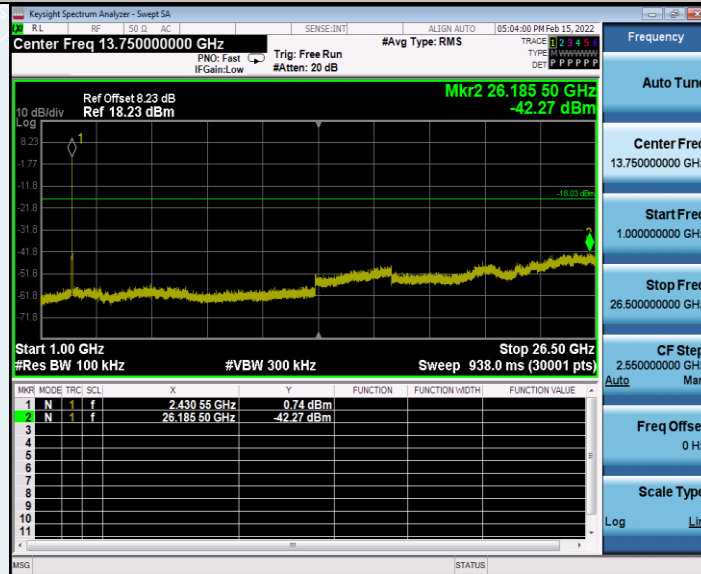
802.11n HT20_Ant1_2412_30~1000



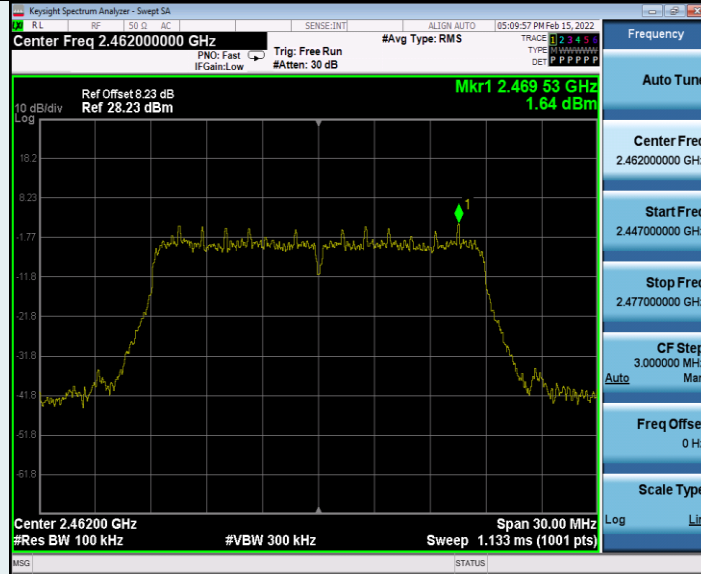
802.11n HT20_Ant1_2437_30~1000



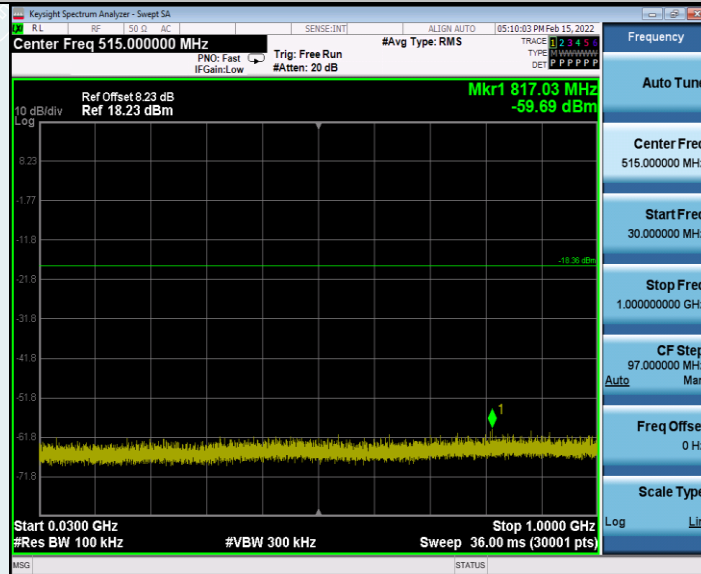
802.11n HT20_Ant1_2437_1000~26500

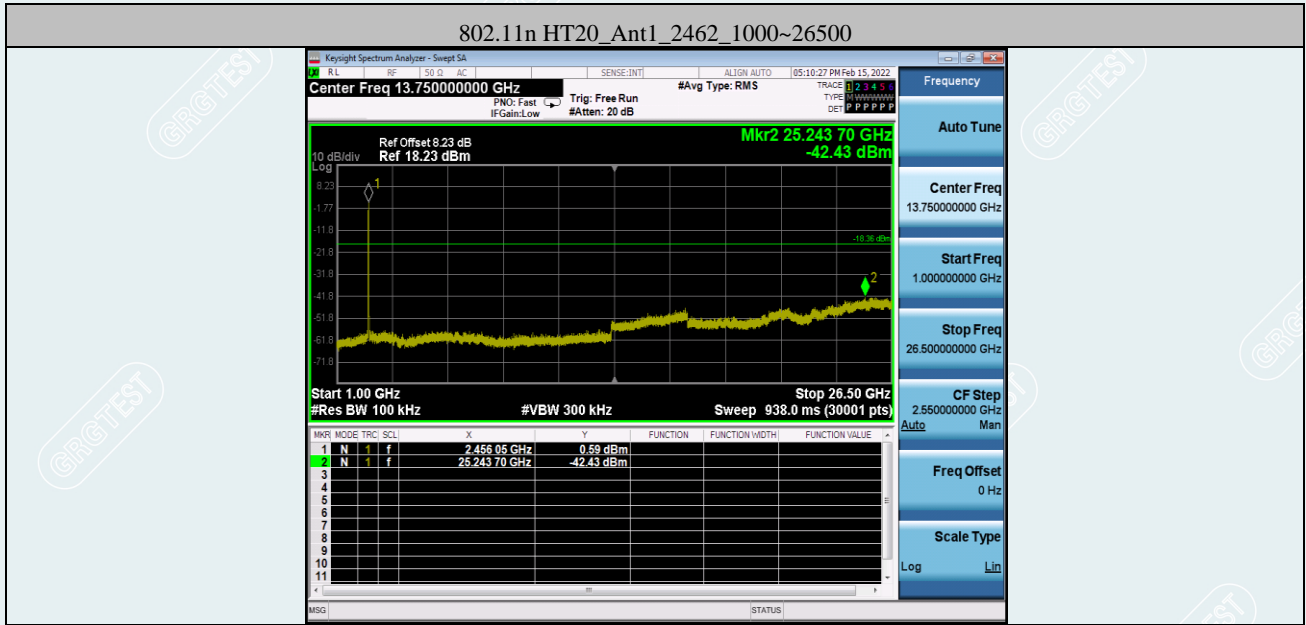


802.11n HT20_Ant1_2462_0~Reference



802.11n HT20_Ant1_2462_30~1000





11. RESTRICTED BANDS OF OPERATION

11.1 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			

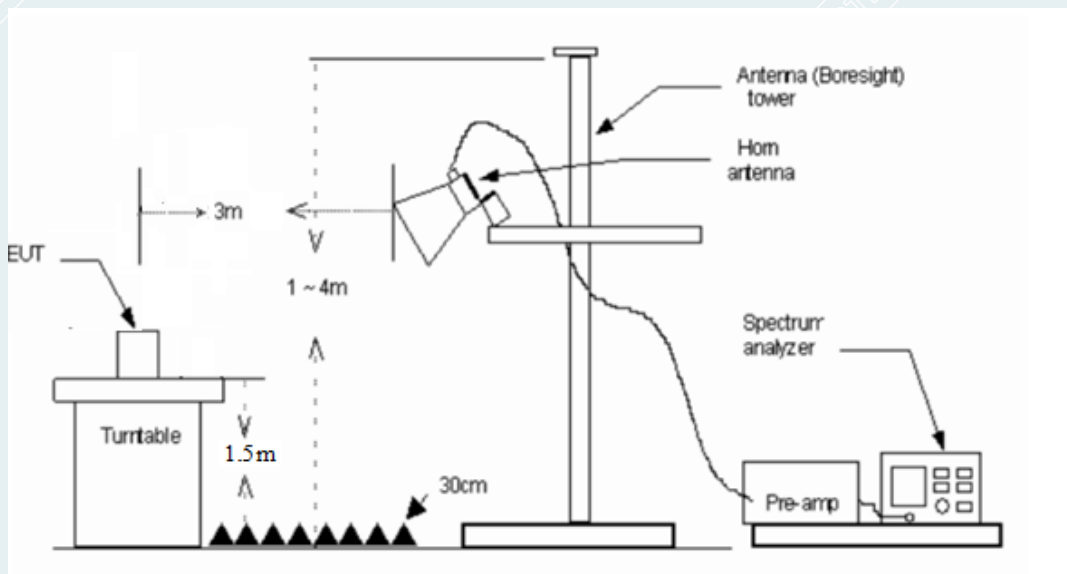
Frequency (MHz)	Quasi-peak(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	53.8~88.5
0.490-1.705	24000/F(kHz)	30	43~53.8
1.705-30.0	30	30	49.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

11.2 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
 - c) The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.
 - d) The frequency above 1GHz, for Avg detector: Set RBW=1MHz, 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 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

11.3 TEST SETUP



11.4 TEST RESULTS

802.11b mode

Lowest Channel

Frequency 2412MHz

Environment: 25 °C/60%RH

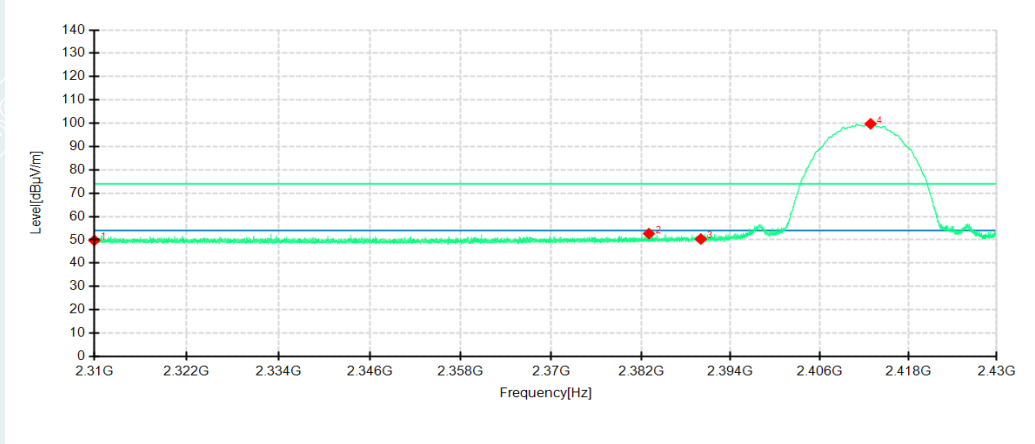
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

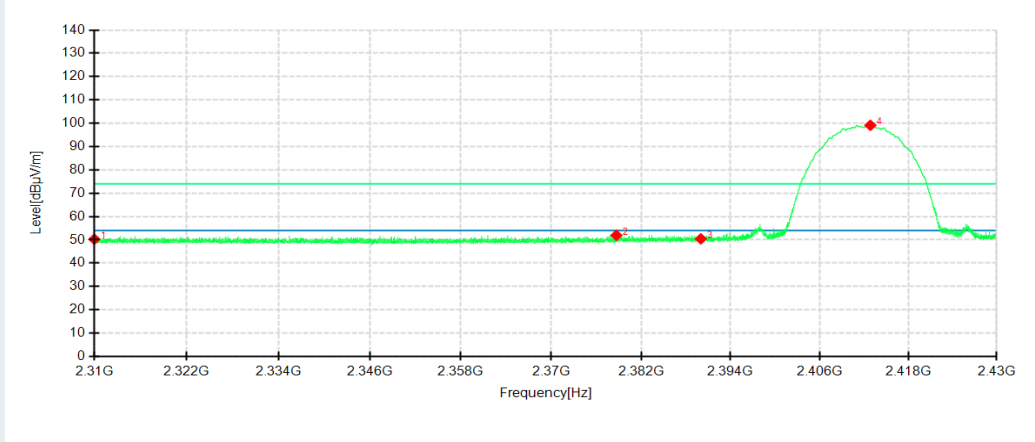
Date: 2022/02/15

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	2310.0000	46.27	49.75	3.48	74.00	24.25	100	259	Horizontal	/
2	2383.0440	48.99	52.68	3.69	74.00	21.32	200	218	Horizontal	/
3	2390.0000	46.53	50.34	3.81	74.00	23.66	100	142	Horizontal	/
4	2412.8880	95.71	99.75	4.04	74.00	-25.75	200	26	Horizontal	No limit
1	2310.0000	46.78	50.26	3.48	74.00	23.74	100	12	Vertical	/
2	2378.7000	48.31	51.93	3.62	74.00	22.07	100	94	Vertical	/
3	2390.0000	46.61	50.42	3.81	74.00	23.58	100	191	Vertical	/
4	2412.8520	95.08	99.12	4.04	74.00	-25.12	200	316	Vertical	No limit

802.11b mode

Lowest Channel

Frequency 2412MHz

Environment: 25°C/60%RH

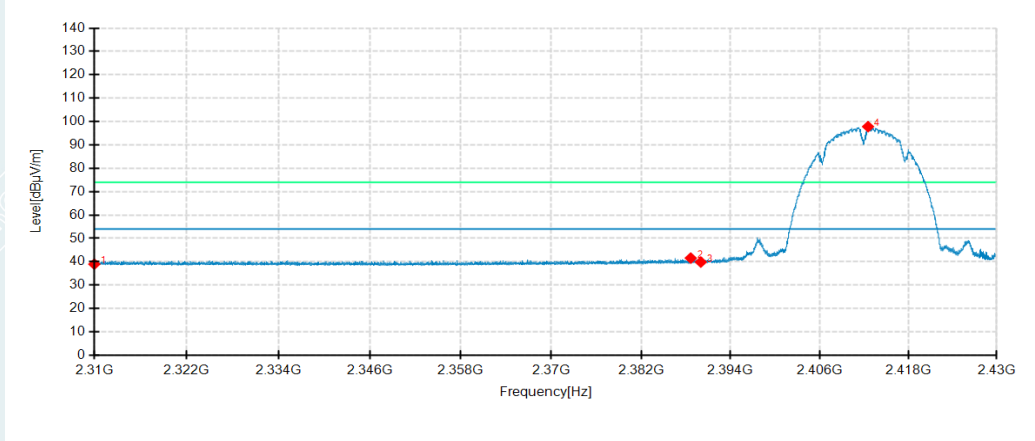
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

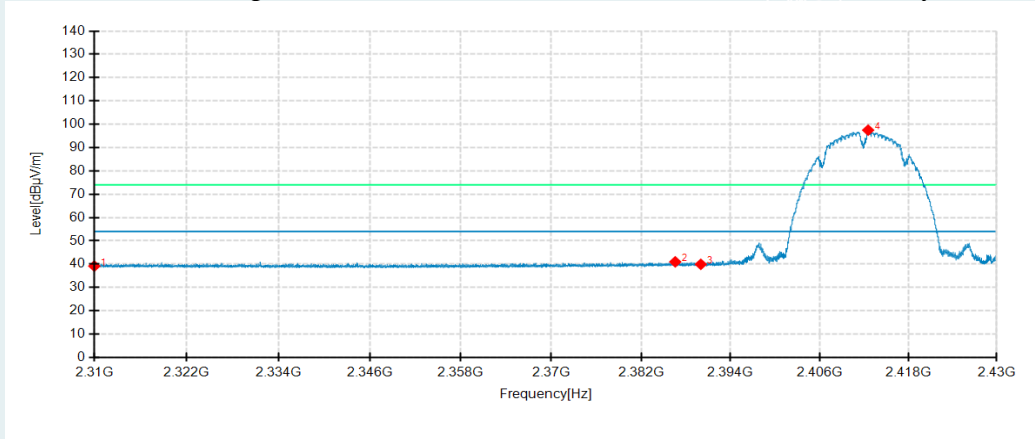
Date: 2022/02/15

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	35.49	38.97	3.48	54.00	15.03	200	80	Horizontal	/
2	2388.6480	37.78	41.57	3.79	54.00	12.43	200	218	Horizontal	/
3	2390.0000	36.06	39.87	3.81	54.00	14.13	200	162	Horizontal	/
4	2412.5400	93.77	97.81	4.04	54.00	-43.81	200	24	Horizontal	No limit
1	2310.0000	35.68	39.16	3.48	54.00	14.84	200	142	Vertical	/
2	2386.5720	37.23	40.98	3.75	54.00	13.02	100	109	Vertical	/
3	2390.0000	36.13	39.94	3.81	54.00	14.06	200	318	Vertical	/
4	2412.5520	93.44	97.48	4.04	54.00	-43.48	200	318	Vertical	No limit

802.11b mode

Highest Channel

Frequency 2462MHz

Environment: 25 °C/60%RH

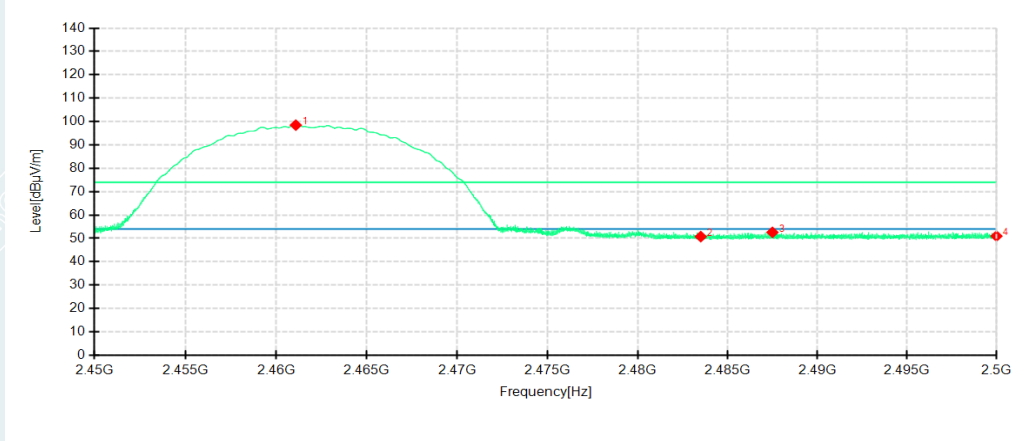
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

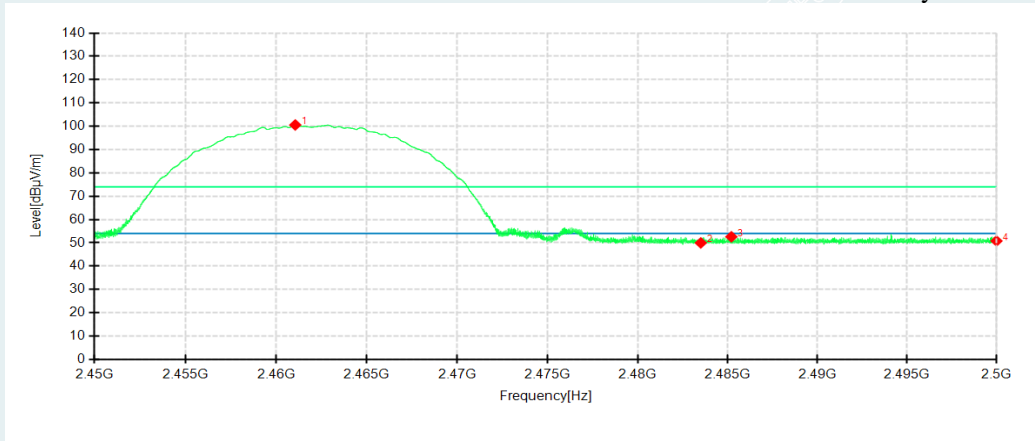
Date: 2022/02/15

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	2461.0800	94.19	98.45	4.26	74.00	-24.45	100	358	Horizontal	No limit
2	2483.5000	46.42	50.75	4.33	74.00	23.25	200	169	Horizontal	/
3	2487.4900	48.24	52.58	4.34	74.00	21.42	200	218	Horizontal	/
4	2500.0000	46.59	50.97	4.38	74.00	23.03	100	142	Horizontal	/
1	2461.0500	96.30	100.56	4.26	74.00	-26.56	200	314	Vertical	No limit
2	2483.5000	45.64	49.97	4.33	74.00	24.03	100	12	Vertical	/
3	2485.2000	48.25	52.59	4.34	74.00	21.41	100	218	Vertical	/
4	2500.0000	46.42	50.80	4.38	74.00	23.20	100	6	Vertical	/

802.11b mode

Highest Channel

Frequency 2462MHz

Environment: 25 °C/60%RH

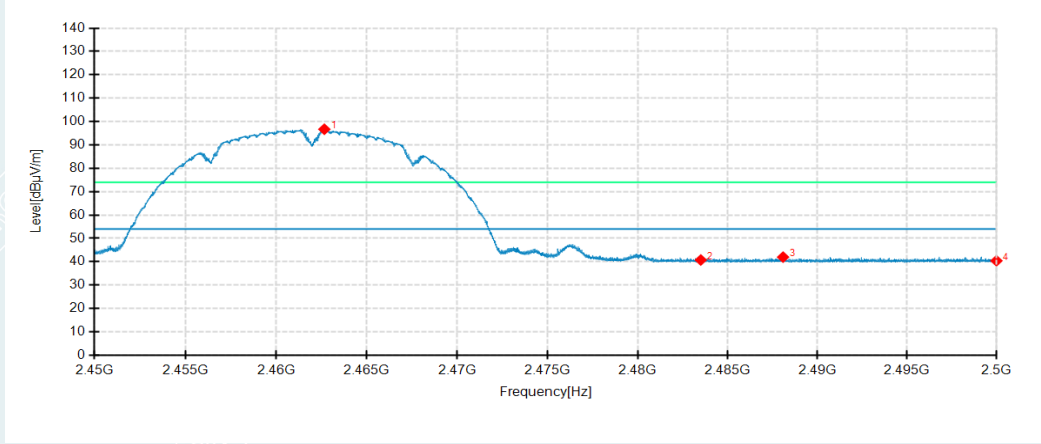
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

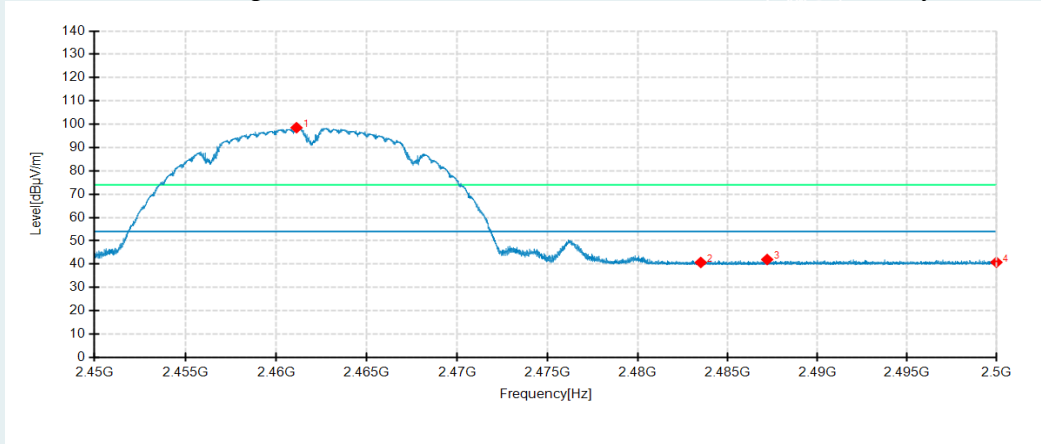
Date: 2022/02/15

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	2462.6550	92.42	96.69	4.27	54.00	-42.69	200	218	Horizontal	No limit
2	2483.5000	36.41	40.74	4.33	54.00	13.26	100	142	Horizontal	/
3	2488.0800	37.63	41.97	4.34	54.00	12.03	200	0	Horizontal	/
4	2500.0000	36.03	40.41	4.38	54.00	13.59	100	142	Horizontal	/
1	2461.1200	94.26	98.52	4.26	54.00	-44.52	200	316	Vertical	No limit
2	2483.5000	36.40	40.73	4.33	54.00	13.27	100	168	Vertical	/
3	2487.1950	37.65	41.99	4.34	54.00	12.01	100	29	Vertical	/
4	2500.0000	36.42	40.80	4.38	54.00	13.20	200	225	Vertical	/

802.11g mode

Lowest Channel

Frequency 2412MHz

Environment: 25 °C/60%RH

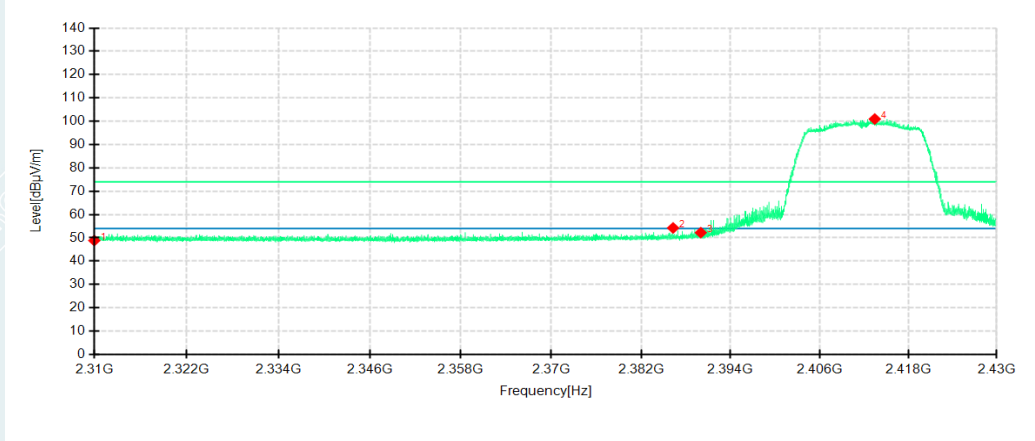
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

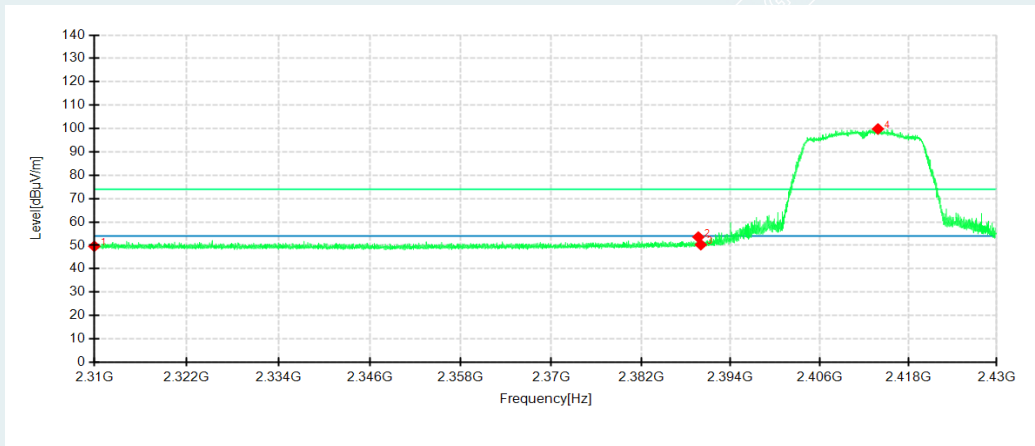
Date: 2022/02/15

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	45.36	48.84	3.48	74.00	25.16	200	123	Horizontal	/
2	2386.2840	50.48	54.23	3.75	74.00	19.77	200	1	Horizontal	/
3	2390.0000	48.41	52.22	3.81	74.00	21.78	200	32	Horizontal	/
4	2413.4520	96.90	100.95	4.05	74.00	-26.95	200	19	Horizontal	No limit
1	2310.0000	46.13	49.61	3.48	74.00	24.39	200	211	Vertical	/
2	2389.6680	49.75	53.55	3.80	74.00	20.45	200	307	Vertical	/
3	2390.0000	46.46	50.27	3.81	74.00	23.73	200	197	Vertical	/
4	2413.8840	95.77	99.82	4.05	74.00	-25.82	200	314	Vertical	No limit

802.11g mode

Lowest Channel

Frequency 2412MHz

Environment: 25 °C/60%RH

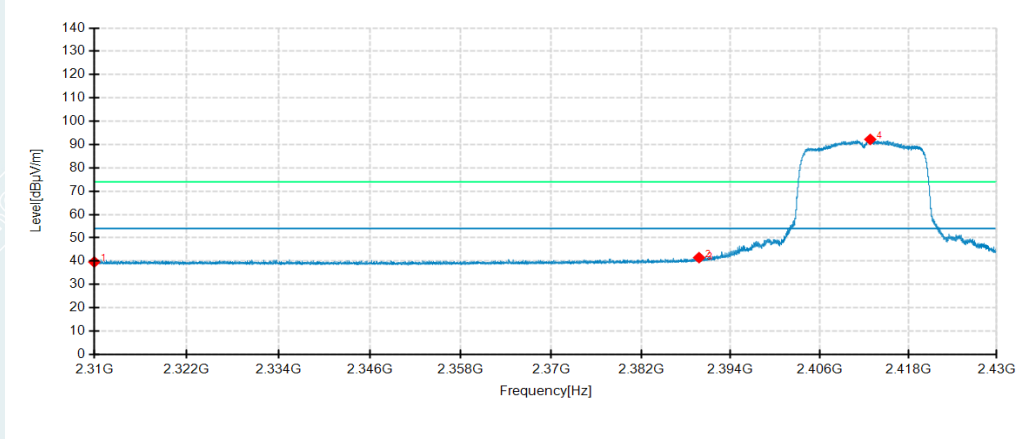
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

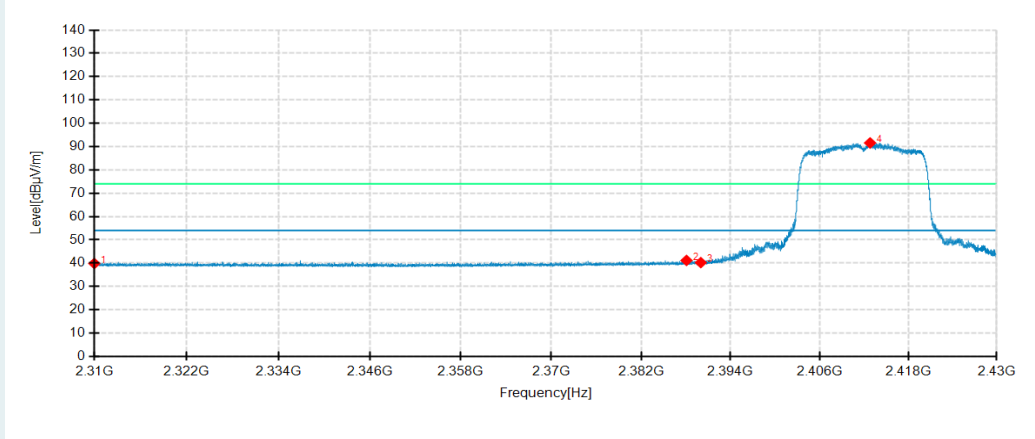
Date: 2022/02/15

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	36.15	39.63	3.48	54.00	14.37	200	218	Horizontal	/
2	2389.7640	37.69	41.50	3.81	54.00	12.50	100	142	Horizontal	/
3	2390.0000	36.71	40.52	3.81	54.00	13.48	200	218	Horizontal	/
4	2412.8400	88.18	92.22	4.04	54.00	-38.22	200	18	Horizontal	No limit
1	2310.0000	36.38	39.86	3.48	54.00	14.14	200	354	Vertical	/
2	2388.0840	37.38	41.16	3.78	54.00	12.84	200	142	Vertical	/
3	2390.0000	36.42	40.23	3.81	54.00	13.77	200	142	Vertical	/
4	2412.8160	87.53	91.57	4.04	54.00	-37.57	200	321	Vertical	No limit

802.11g mode

Highest Channel

Frequency 2462MHz

Environment: 25 °C/60%RH

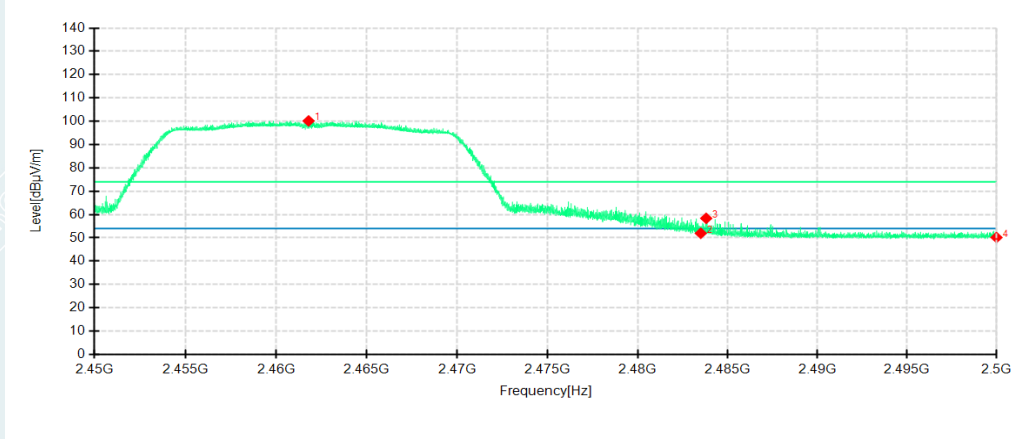
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

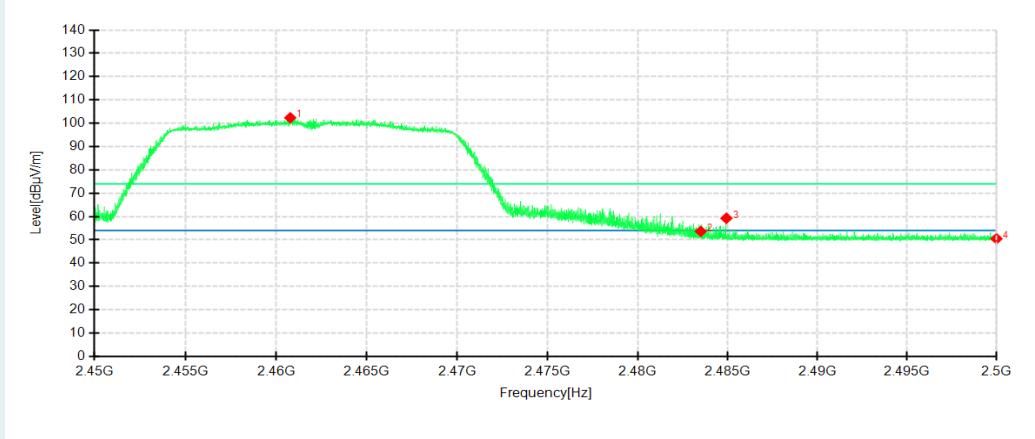
Date: 2022/02/15

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	2461.7850	95.88	100.15	4.27	74.00	-26.15	200	19	Horizontal	No limit
2	2483.5000	47.62	51.95	4.33	74.00	22.05	100	142	Horizontal	/
3	2483.8000	54.02	58.35	4.33	74.00	15.65	100	358	Horizontal	/
4	2500.0000	45.77	50.15	4.38	74.00	23.85	100	295	Horizontal	/
1	2460.7750	98.07	102.33	4.26	74.00	-28.33	200	314	Vertical	No limit
2	2483.5000	49.29	53.62	4.33	74.00	20.38	200	359	Vertical	/
3	2484.9250	54.92	59.25	4.33	74.00	14.75	200	321	Vertical	/
4	2500.0000	46.10	50.48	4.38	74.00	23.52	200	354	Vertical	/

802.11g mode

Highest Channel

Frequency 2462MHz

Environment: 25 °C/60%RH

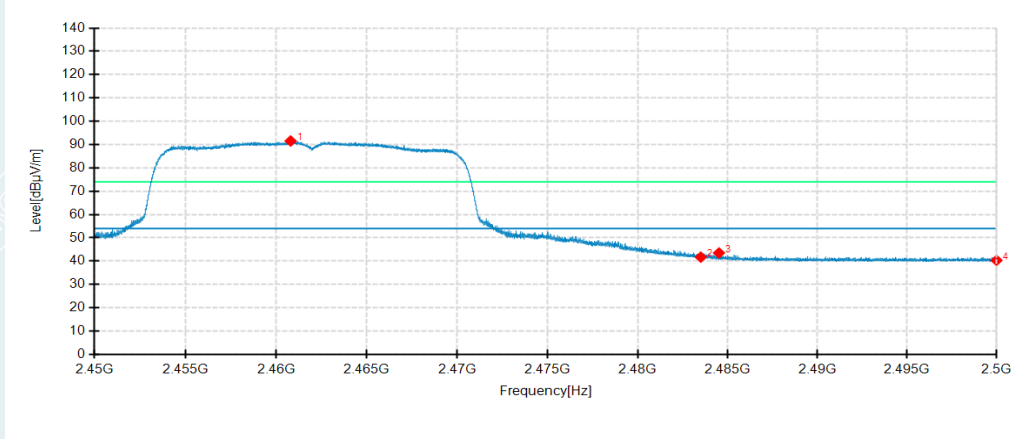
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

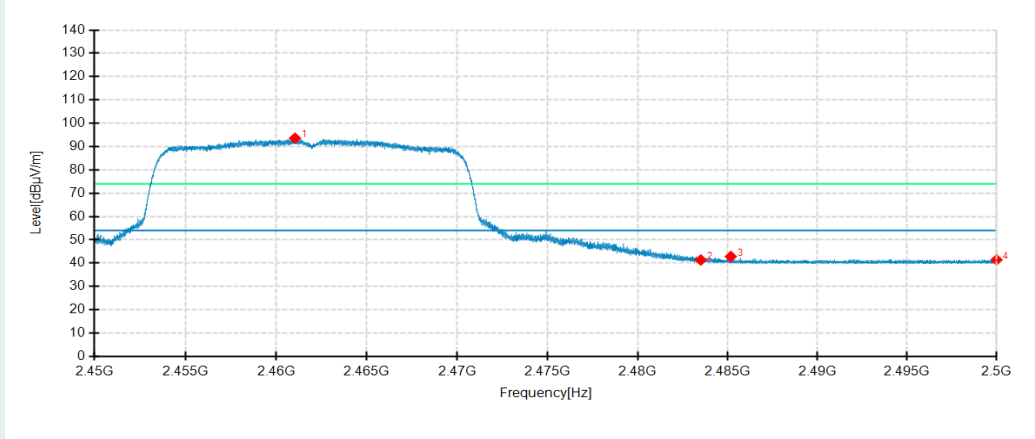
Date: 2022/02/15

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	2460.7950	87.29	91.55	4.26	54.00	-37.55	200	218	Horizontal	No limit
2	2483.5000	37.39	41.72	4.33	54.00	12.28	100	142	Horizontal	/
3	2484.5100	39.19	43.52	4.33	54.00	10.48	200	218	Horizontal	/
4	2500.0000	35.96	40.34	4.38	54.00	13.66	200	94	Horizontal	/
1	2461.0350	89.32	93.58	4.26	54.00	-39.58	200	314	Vertical	No limit
2	2483.5000	37.02	41.35	4.33	54.00	12.65	200	321	Vertical	/
3	2485.1700	38.48	42.82	4.34	54.00	11.18	200	321	Vertical	/
4	2500.0000	37.04	41.42	4.38	54.00	12.58	200	142	Vertical	/

802.11n HT20 mode

Lowest Channel

Frequency 2412MHz

Environment: 25 °C/60%RH

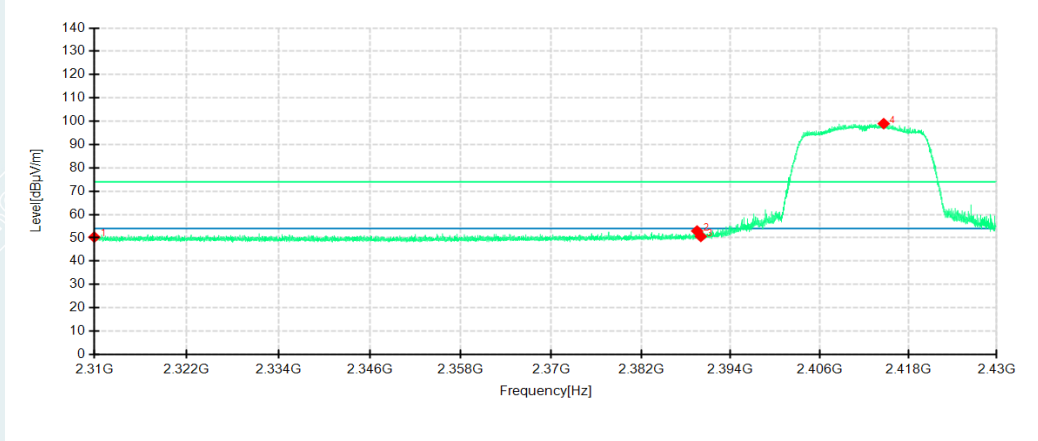
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

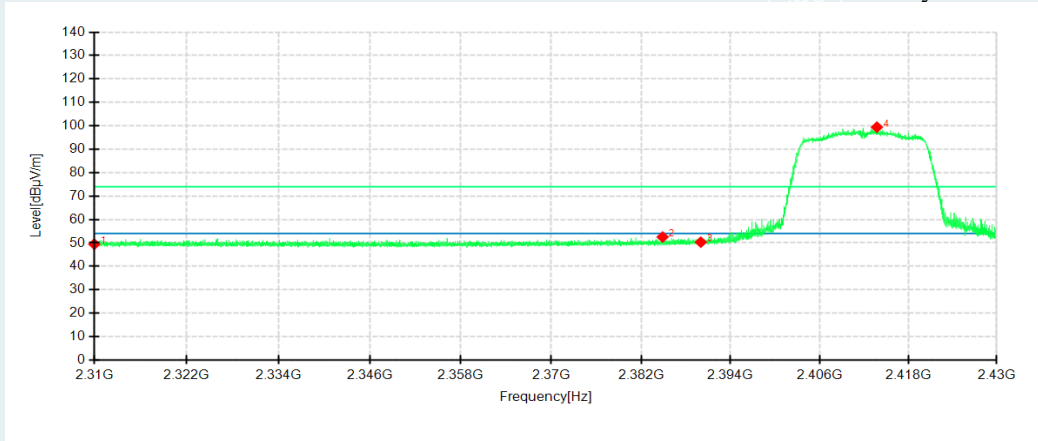
Date: 2022/02/15

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	46.84	50.32	3.48	74.00	23.68	100	142	Horizontal	/
2	2389.5000	49.13	52.93	3.80	74.00	21.07	100	142	Horizontal	/
3	2390.0000	46.76	50.57	3.81	74.00	23.43	100	142	Horizontal	/
4	2414.6640	94.93	98.98	4.05	74.00	-24.98	200	25	Horizontal	No limit
1	2310.0000	45.98	49.46	3.48	74.00	24.54	100	218	Vertical	/
2	2384.8800	48.79	52.51	3.72	74.00	21.49	100	40	Vertical	/
3	2390.0000	46.51	50.32	3.81	74.00	23.68	100	218	Vertical	/
4	2413.7400	95.37	99.42	4.05	74.00	-25.42	200	314	Vertical	No limit

802.11n HT20 mode

Lowest Channel

Frequency 2412MHz

Environment: 25°C/60%RH

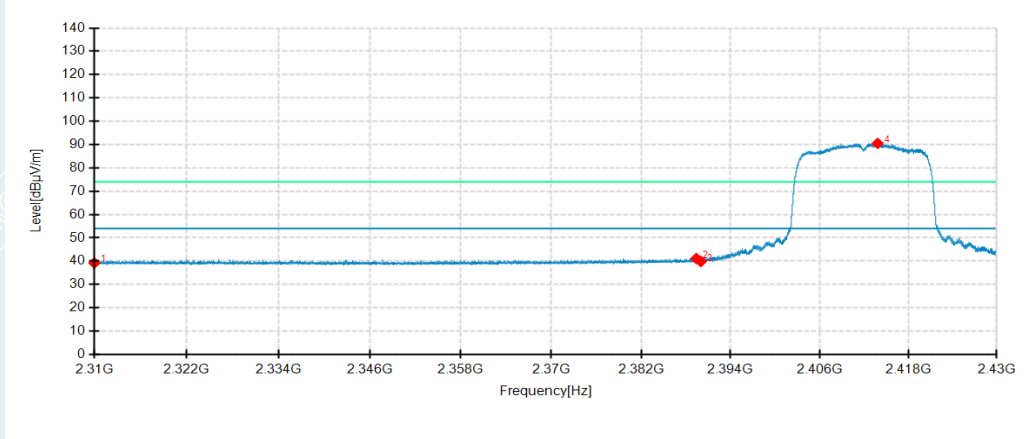
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

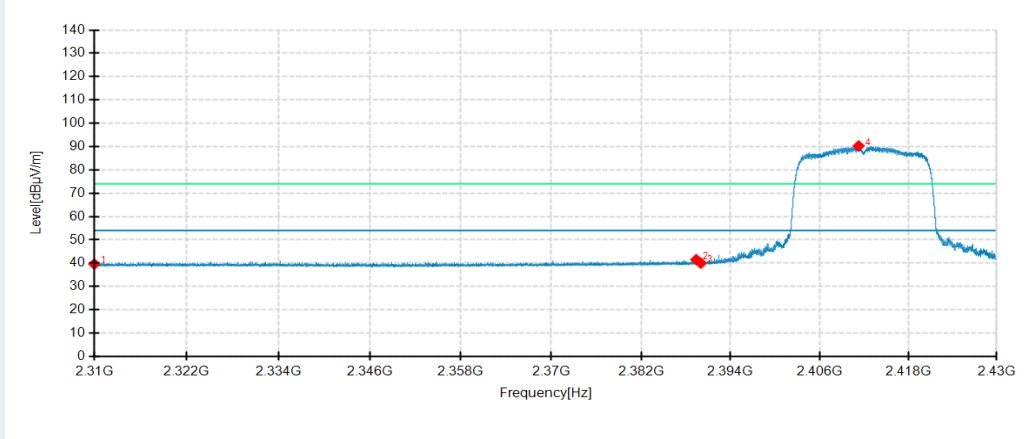
Date: 2022/02/15

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	35.72	39.20	3.48	54.00	14.80	100	142	Horizontal	/
2	2389.4040	37.32	41.12	3.80	54.00	12.88	200	1	Horizontal	/
3	2390.0000	36.06	39.87	3.81	54.00	14.13	200	39	Horizontal	/
4	2413.8480	86.45	90.50	4.05	54.00	-36.50	200	25	Horizontal	No limit
1	2310.0000	36.14	39.62	3.48	54.00	14.38	200	156	Vertical	/
2	2389.3920	37.73	41.53	3.80	54.00	12.47	100	74	Vertical	/
3	2390.0000	36.19	40.00	3.81	54.00	14.00	200	232	Vertical	/
4	2411.2680	86.23	90.27	4.04	54.00	-36.27	200	315	Vertical	No limit

802.11n HT20 mode

Highest Channel

Frequency 2462MHz

Environment: 25°C/60%RH

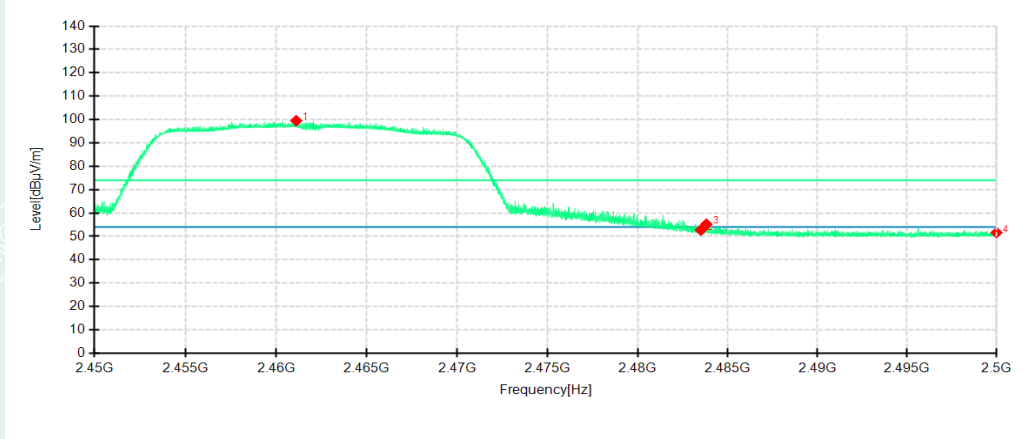
Tested By: Lu Qiang

Detector mode: Peak

Voltage: AC120V/60Hz

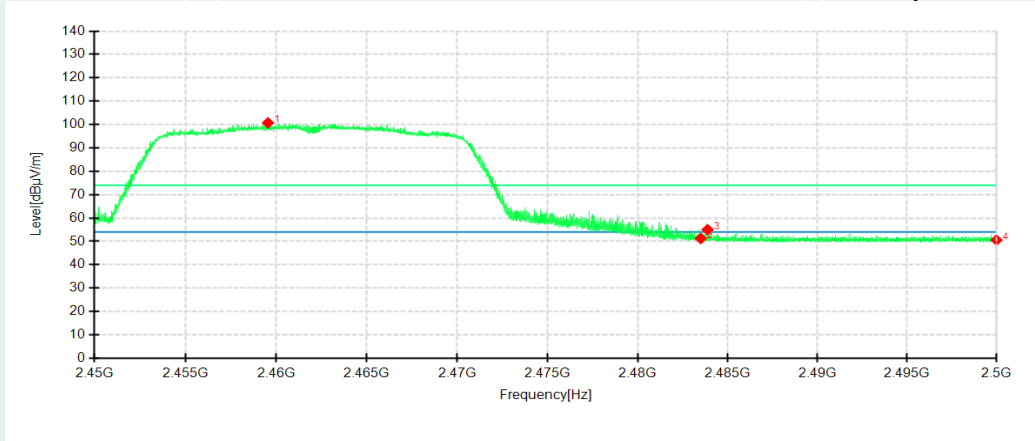
Date: 2022/02/15

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	2461.1050	95.23	99.49	4.26	74.00	-25.49	200	2	Horizontal	No limit
2	2483.5000	48.34	52.67	4.33	74.00	21.33	100	360	Horizontal	/
3	2483.8100	50.87	55.20	4.33	74.00	18.80	100	354	Horizontal	/
4	2500.0000	47.22	51.60	4.38	74.00	22.40	200	65	Horizontal	/
1	2459.5500	96.45	100.71	4.26	74.00	-26.71	200	314	Vertical	No limit
2	2483.5000	46.90	51.23	4.33	74.00	22.77	200	266	Vertical	/
3	2483.8750	50.68	55.01	4.33	74.00	18.99	200	321	Vertical	/
4	2500.0000	46.16	50.54	4.38	74.00	23.46	100	13	Vertical	/

802.11n HT20 mode

Highest Channel

Frequency 2462MHz

Environment: 25 °C/60%RH

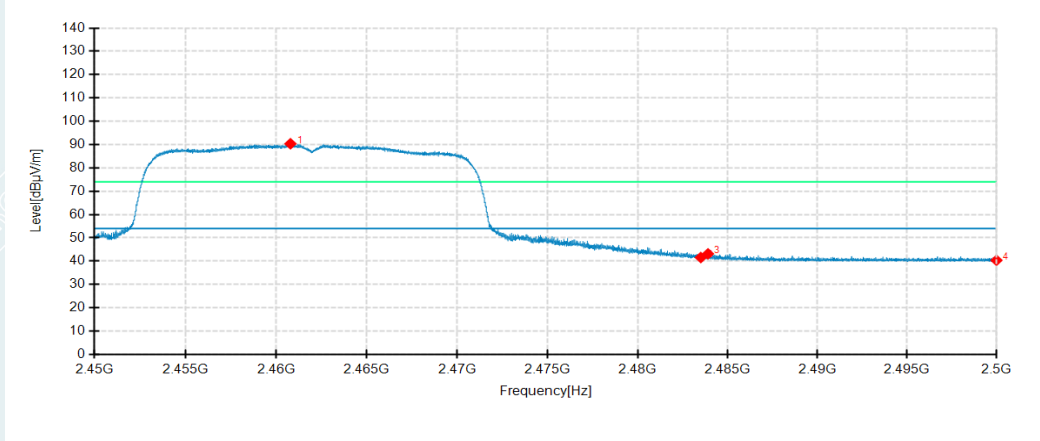
Tested By: Lu Qiang

Detector mode: Average

Voltage: AC120V/60Hz

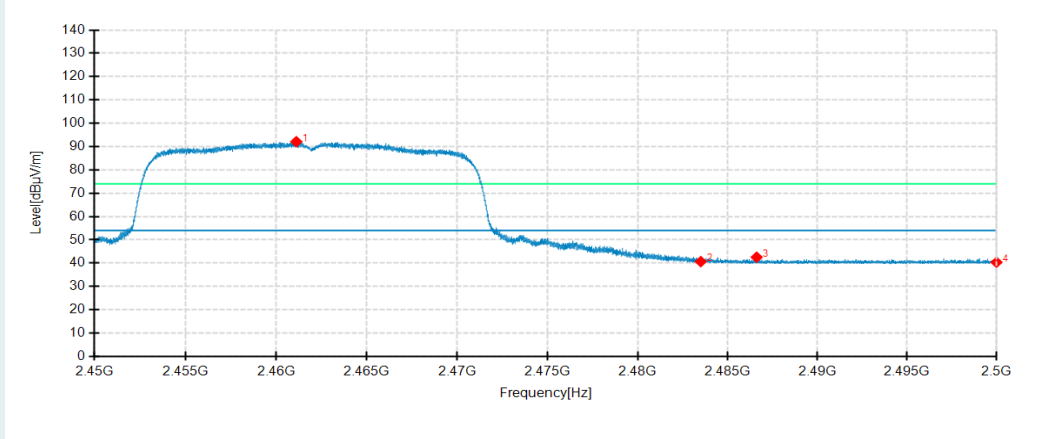
Date: 2022/02/15

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	2460.7850	86.09	90.35	4.26	54.00	-36.35	100	357	Horizontal	No limit
2	2483.5000	37.22	41.55	4.33	54.00	12.45	200	218	Horizontal	/
3	2483.9000	38.80	43.13	4.33	54.00	10.87	200	218	Horizontal	/
4	2500.0000	35.98	40.36	4.38	54.00	13.64	100	177	Horizontal	/
1	2461.1100	87.84	92.10	4.26	54.00	-38.10	200	315	Vertical	No limit
2	2483.5000	36.32	40.65	4.33	54.00	13.35	200	322	Vertical	/
3	2486.6100	38.20	42.54	4.34	54.00	11.46	200	254	Vertical	/
4	2500.0000	35.98	40.36	4.38	54.00	13.64	100	218	Vertical	/

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20220126665001-1-test setup photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20220126665001-1-EUT photo.

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

