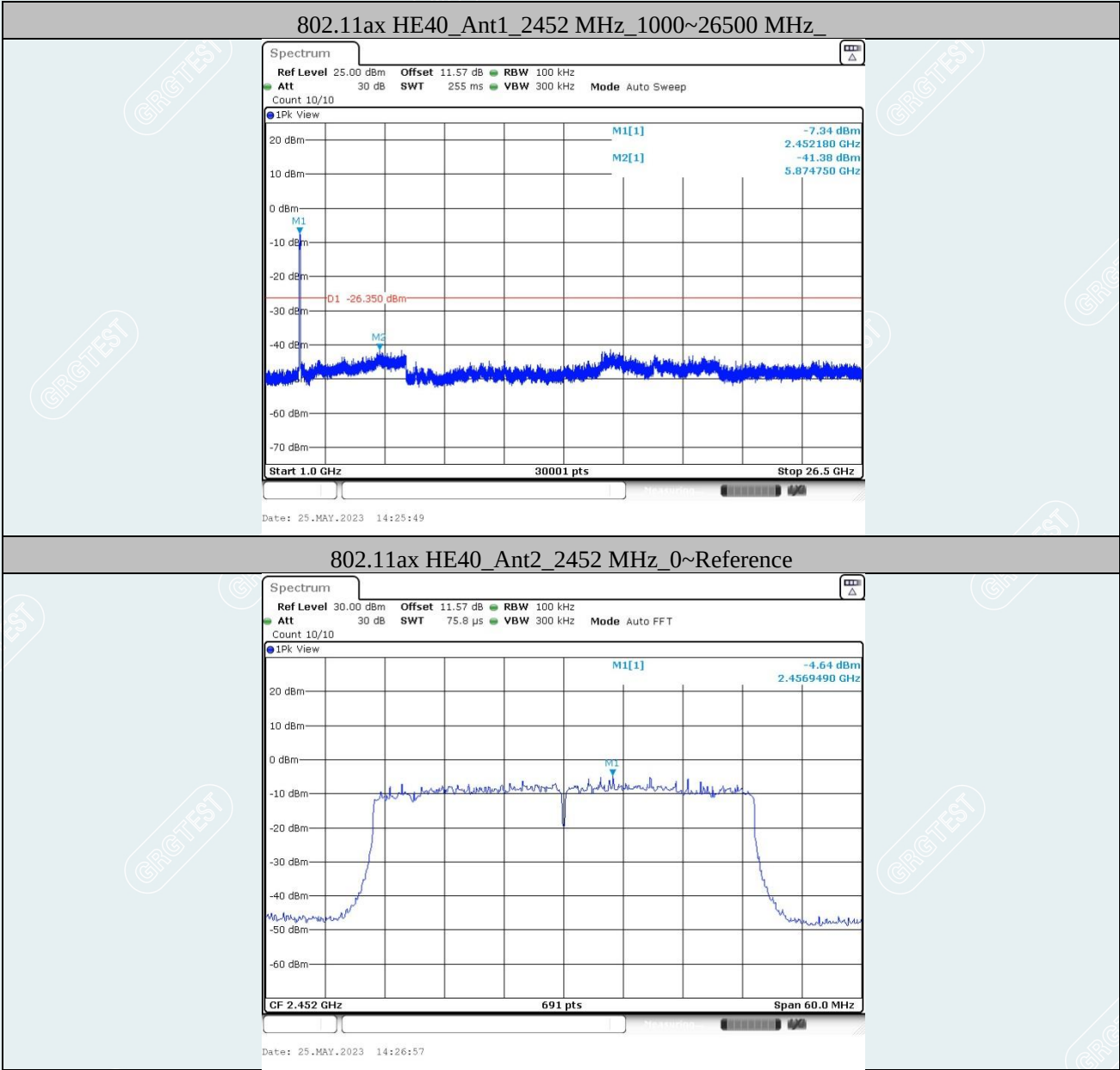
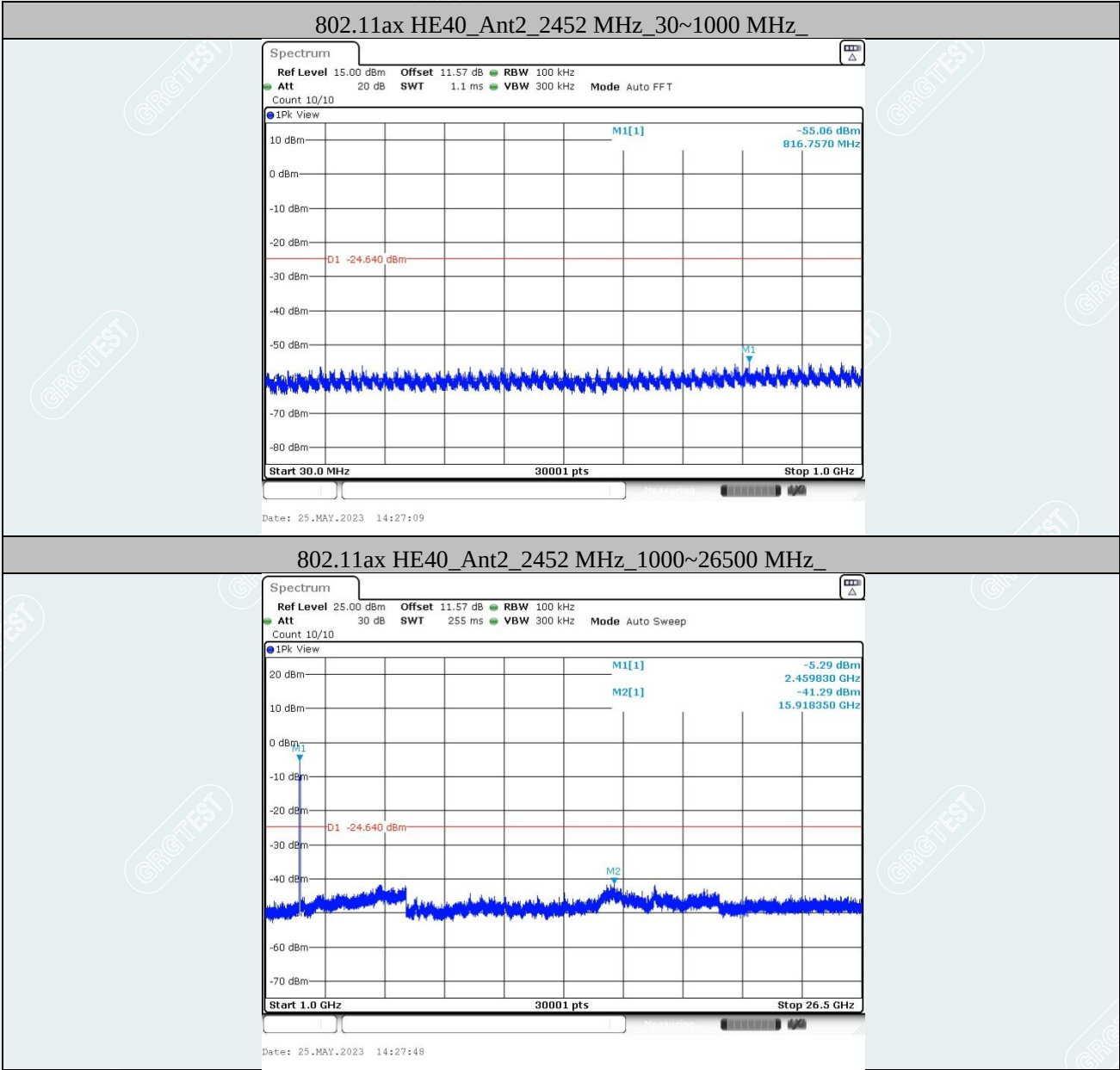






10. RESTRICTED BANDS OF OPERATION

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)).

Frequency(MHz)	Frequency(MHz)	Frequency(MHz)	Frequency(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

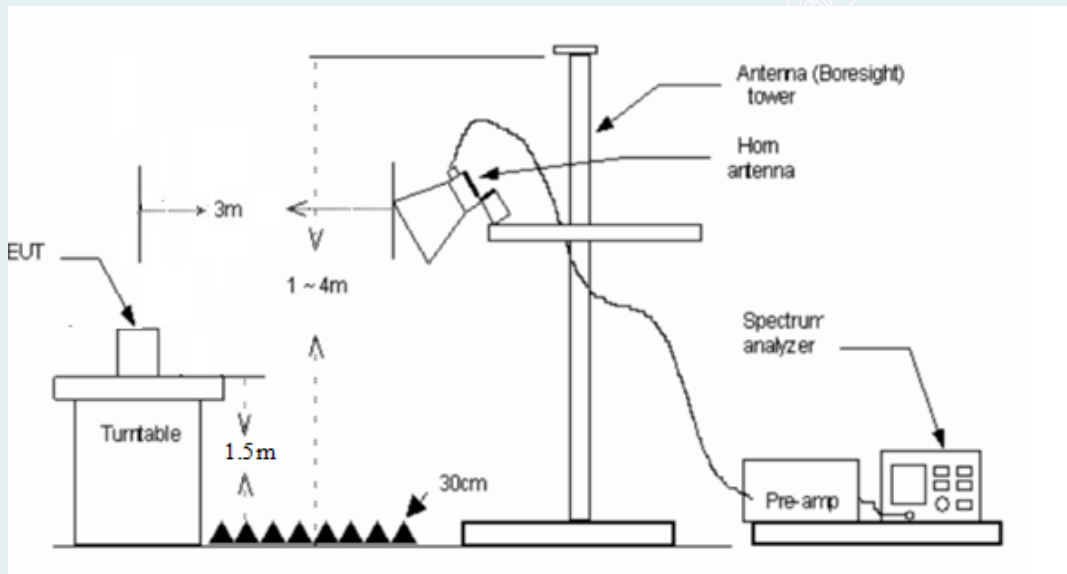
10.2 TEST PROCEDURES

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



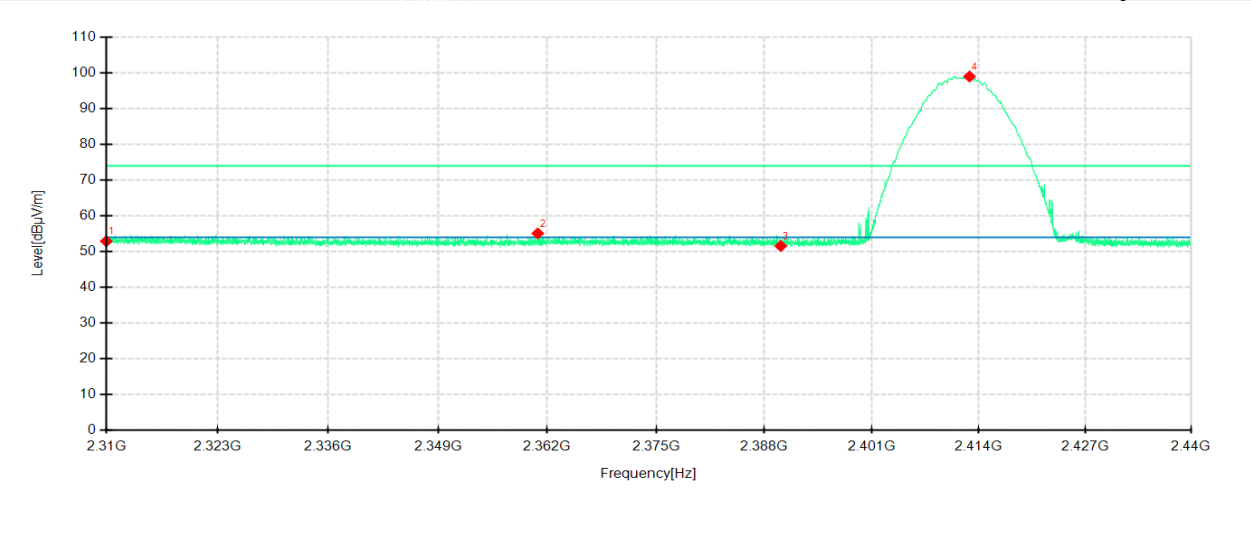
10.4 TEST RESULTS

802.11b mode ANT1

Lowest Channel

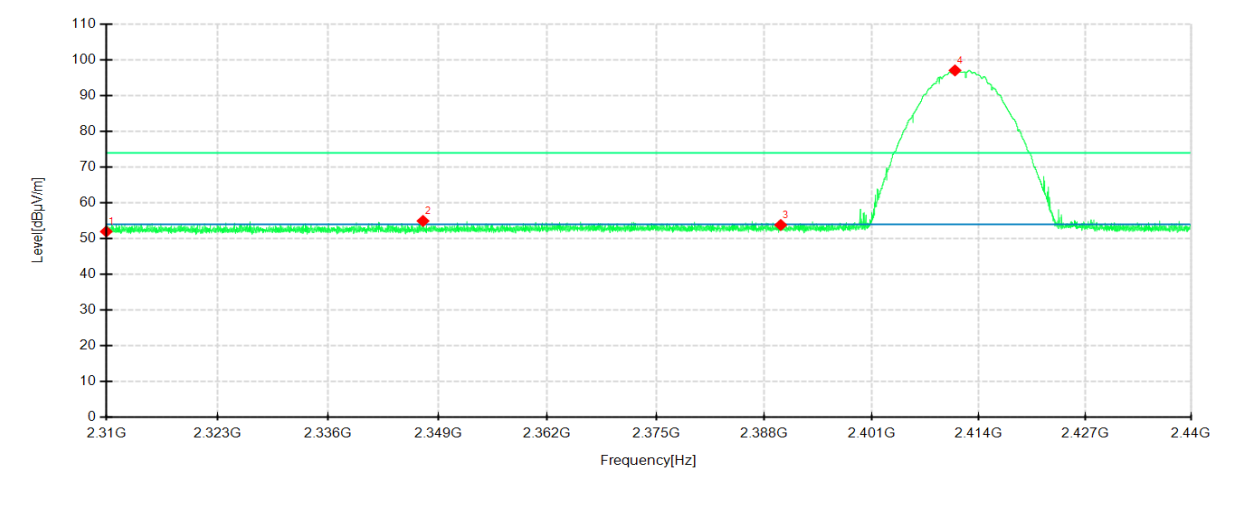
Frequency 2412MHz
Environment: 22.6°C/65%RH /101.0kPa
Tested By: Zhang Qiang
Detector mode: Peak

Voltage: DC 12V
Date: 2023-05-29
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



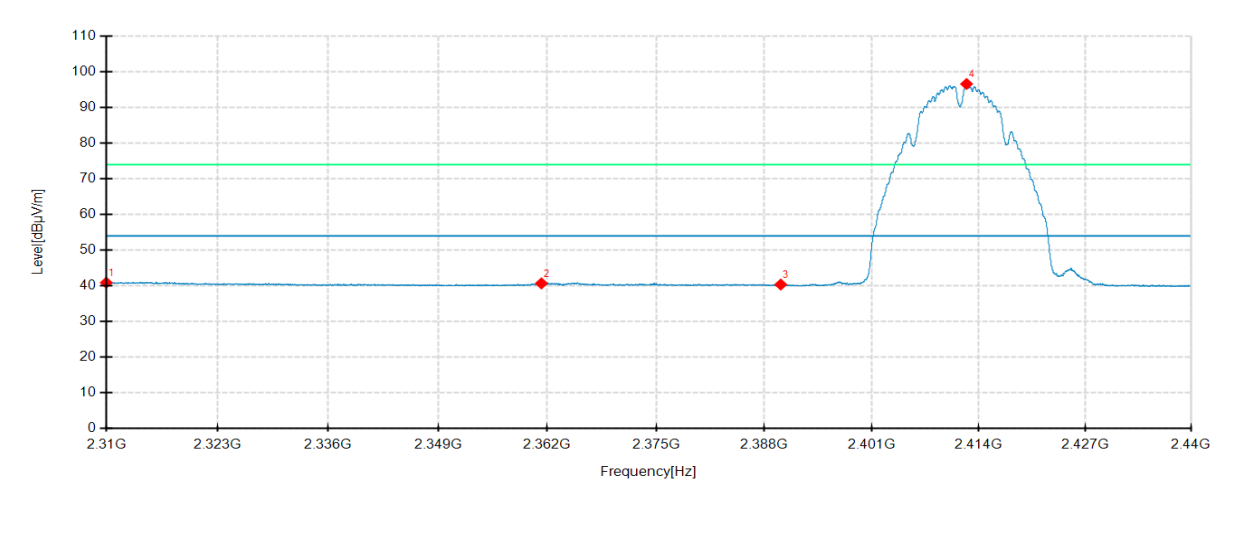
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310	43.14	52.91	9.77	74.00	21.09	100	300	Horizontal	/
2	2360.8625	46.04	55.09	9.05	74.00	18.91	100	250	Horizontal	/
3	2390	42.47	51.58	9.11	74.00	22.42	100	112	Horizontal	/
4	2412.87875	89.88	98.96	9.08	-	-	200	18	Horizontal	No limit
1	2310	42.92	51.99	9.07	74.00	22.01	200	192	Vertical	/
2	2347.22875	45.83	54.95	9.12	74.00	19.05	200	74	Vertical	/
3	2390	44.29	53.82	9.53	74.00	20.18	200	15	Vertical	/
4	2411.1075	87.42	97.03	9.61	-	-	200	340	Vertical	No limit

802.11b mode ANT1

Lowest Channel

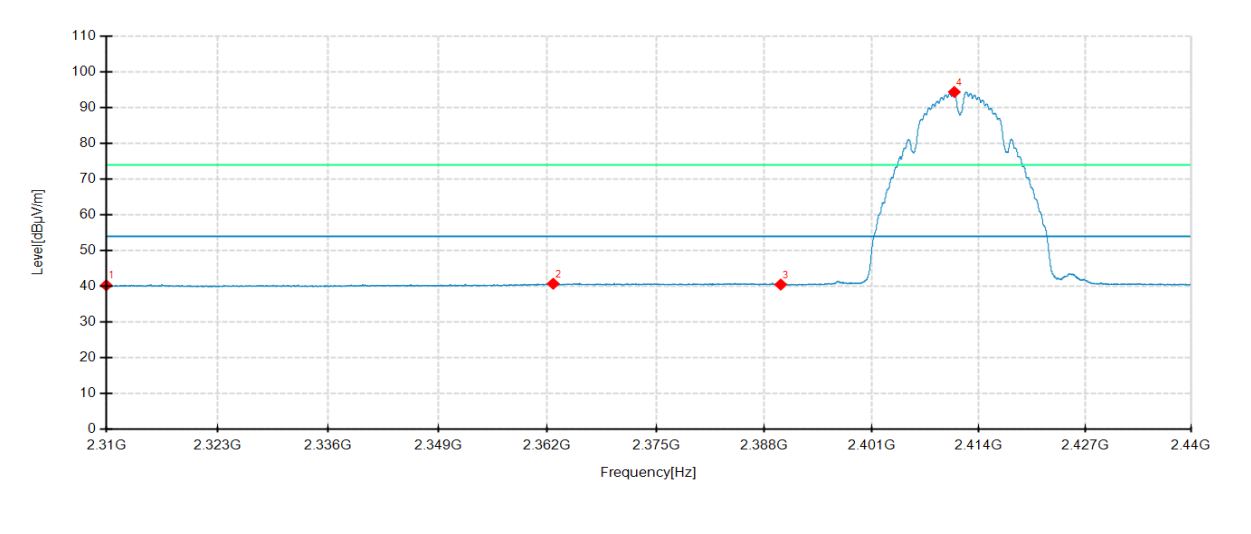
Frequency 2412MHz
Environment: 22.6°C/65%RH /101.0kPa
Tested By: Zhang Qiang
Detector mode: Average

Voltage: DC 12V
Date: 2023-05-29
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	Remark
1	2310	31.12	40.89	9.77	54.00	13.11	200	129	Horizontal	/
2	2361.30125	31.65	40.69	9.04	54.00	13.31	200	21	Horizontal	/
3	2390	31.27	40.38	9.11	54.00	13.62	200	70	Horizontal	/
4	2412.52125	87.48	96.56	9.08	-	-	200	21	Horizontal	No limit
1	2310	31.25	40.32	9.07	54.00	13.68	200	155	Vertical	/
2	2362.69875	31.50	40.75	9.25	54.00	13.25	200	17	Vertical	/
3	2390	30.99	40.52	9.53	54.00	13.48	100	234	Vertical	/
4	2411.02625	84.75	94.36	9.61	-	-	200	343	Vertical	No limit

802.11b mode ANT1

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

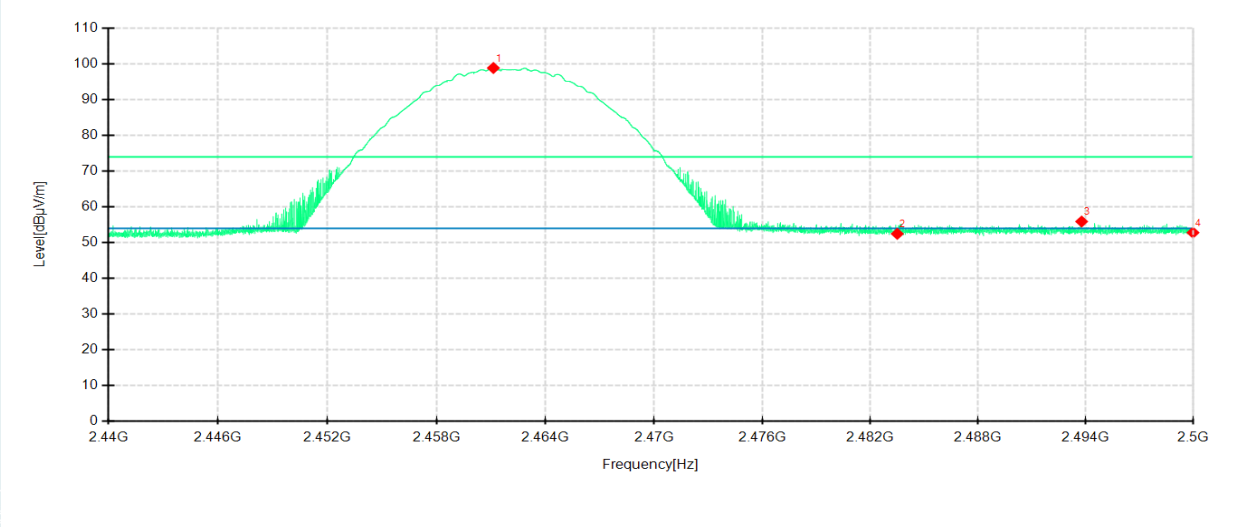
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

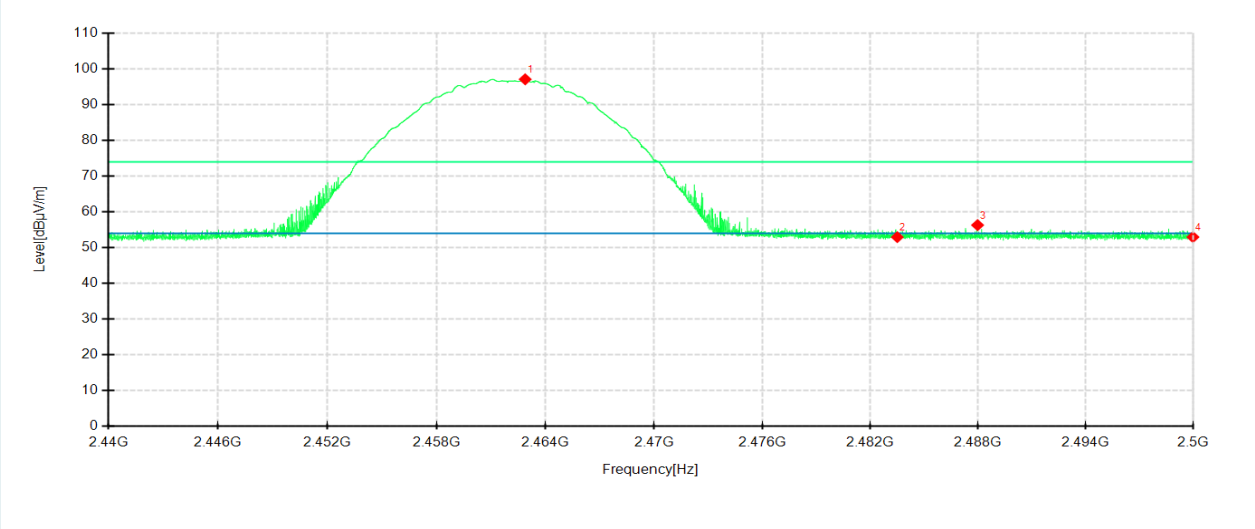
Date: 2023-05-29

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	Remark
1	2461.135	89.64	98.83	9.19	-	-	200	59	Horizontal	No limit
2	2483.5	42.78	52.46	9.68	74.00	21.54	100	193	Horizontal	/
3	2493.775	45.99	55.90	9.91	74.00	18.10	200	345	Horizontal	/
4	2500	42.75	52.80	10.05	74.00	21.20	200	345	Horizontal	/
1	2462.89	87.45	97.07	9.62	-	-	200	314	Vertical	No limit
2	2483.5	43.19	52.94	9.75	74.00	21.06	100	8	Vertical	/
3	2487.97	46.52	56.30	9.78	74.00	17.70	200	293	Vertical	/
4	2500	43.10	52.95	9.85	74.00	21.05	100	156	Vertical	/

802.11b mode ANT1

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

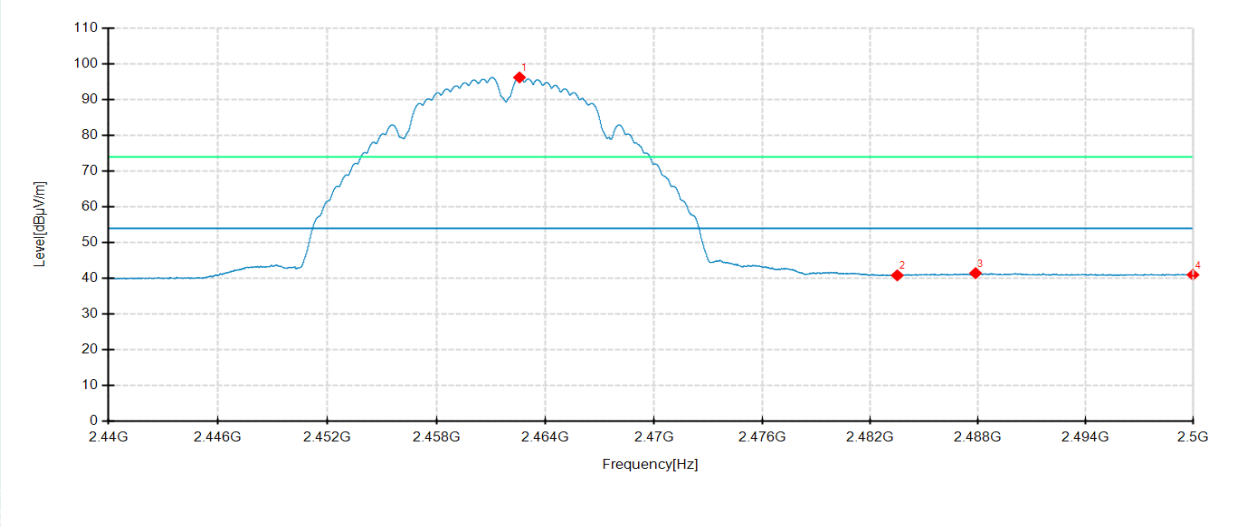
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

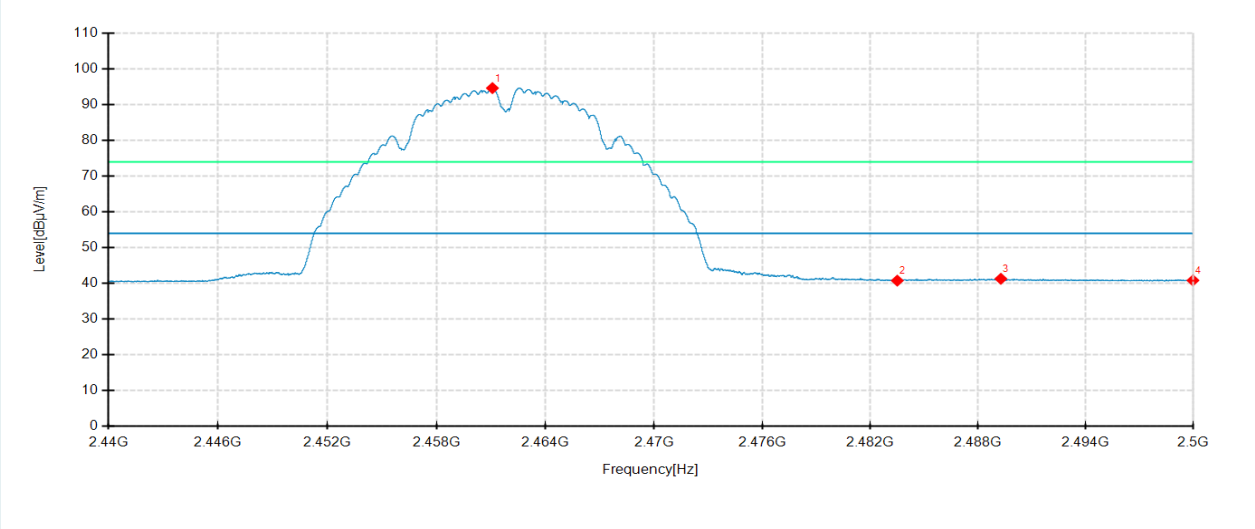
Date: 2023-05-29

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	Remark
1	2462.575	86.97	96.19	9.22	-	-	200	60	Horizontal	No limit
2	2483.5	31.17	40.85	9.68	54.00	13.15	100	35	Horizontal	/
3	2487.8575	31.69	41.47	9.78	54.00	12.53	100	291	Horizontal	/
4	2500	30.95	41.00	10.05	54.00	13.00	100	114	Horizontal	/
1	2461.0825	85.00	94.61	9.61	-	-	200	341	Vertical	No limit
2	2483.5	31.03	40.78	9.75	54.00	13.22	200	114	Vertical	/
3	2489.2675	31.52	41.30	9.78	54.00	12.70	200	349	Vertical	/
4	2500	30.99	40.84	9.85	54.00	13.16	100	179	Vertical	/

802.11b mode ANT2

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

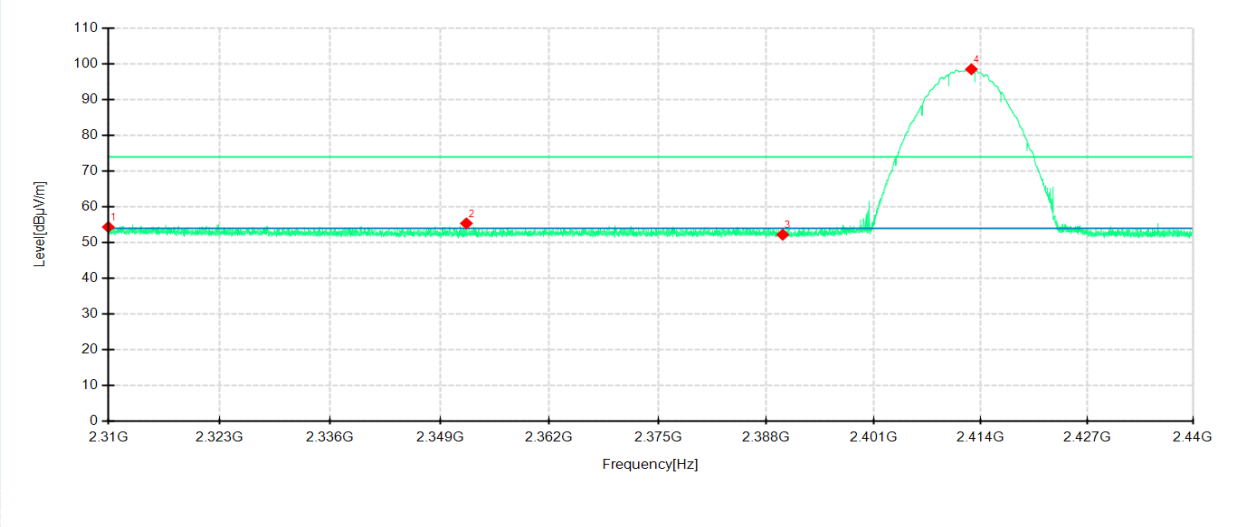
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

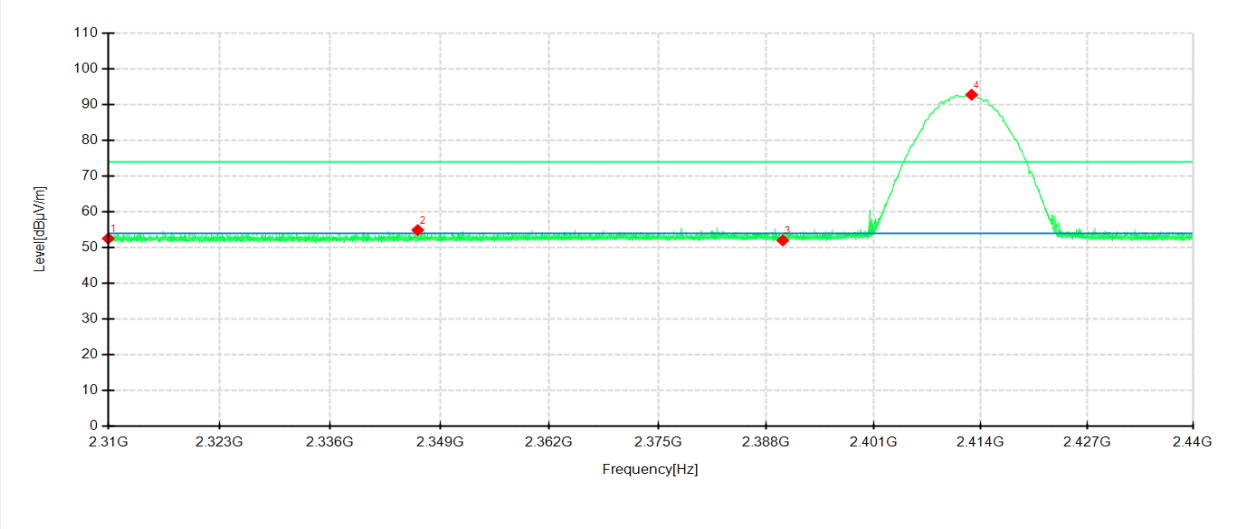
Date: 2023-05-29

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



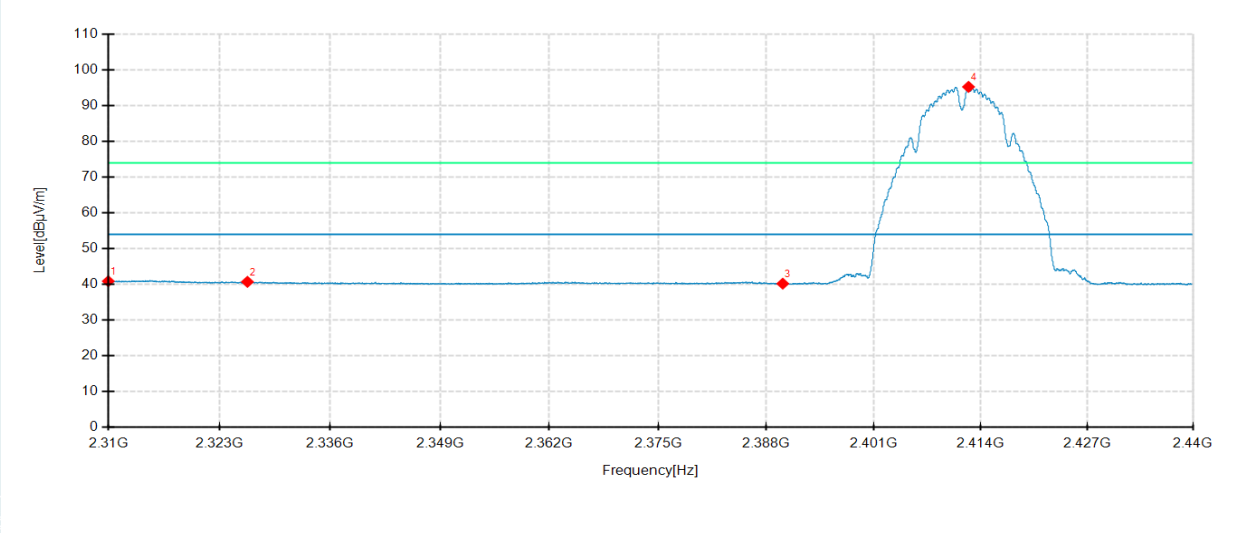
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310	44.60	54.37	9.77	74.00	19.63	100	178	Horizontal	/
2	2352.13625	46.36	55.38	9.02	74.00	18.62	100	10	Horizontal	/
3	2390	43.11	52.22	9.11	74.00	21.78	200	272	Horizontal	/
4	2412.8625	89.40	98.48	9.08	-	-	100	314	Horizontal	No limit
1	2310	43.48	52.55	9.07	74.00	21.45	200	316	Vertical	/
2	2346.3675	45.79	54.91	9.12	74.00	19.09	200	21	Vertical	/
3	2390	42.49	52.02	9.53	74.00	21.98	100	292	Vertical	/
4	2412.895	83.14	92.75	9.61	-	-	100	323	Vertical	No limit

802.11b mode ANT2

Lowest Channel

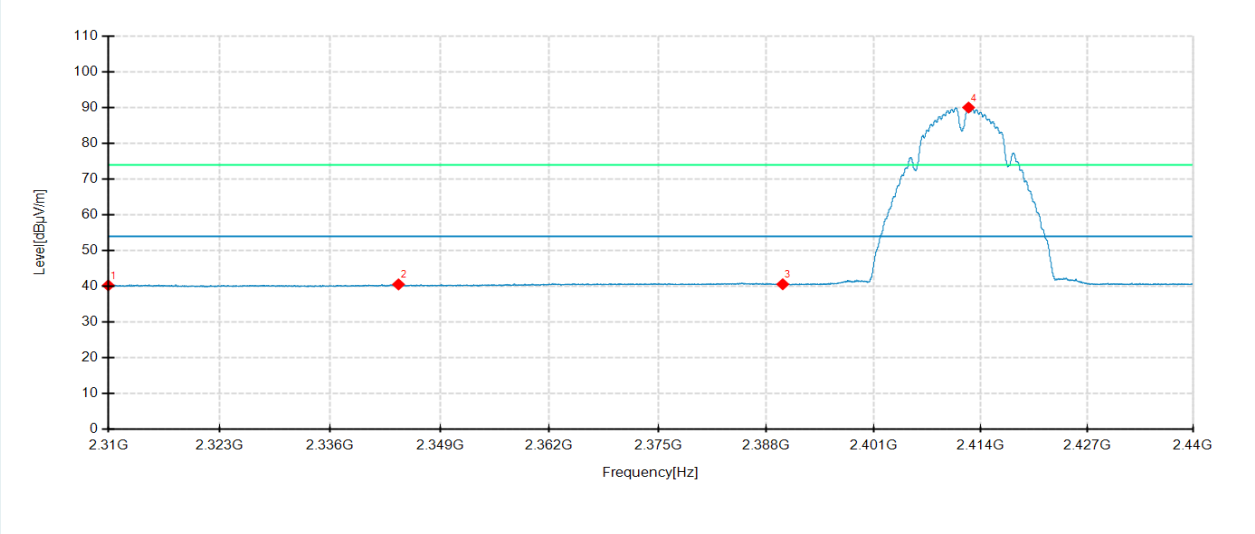
Frequency 2412MHz
Environment: 22.6°C/65%RH /101.0kPa
Tested By: Zhang Qiang
Detector mode: Average

Voltage: DC 12V
Date: 2023-05-29
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	Remark
1	2310	31.12	40.89	9.77	54.00	13.11	100	325	Horizontal	/
2	2326.2825	31.26	40.72	9.46	54.00	13.28	100	177	Horizontal	/
3	2390	31.10	40.21	9.11	54.00	13.79	200	231	Horizontal	/
4	2412.52125	86.15	95.23	9.08	-	-	100	306	Horizontal	No limit
1	2310	31.21	40.28	9.07	54.00	13.72	200	146	Vertical	/
2	2344.0925	31.45	40.56	9.11	54.00	13.44	200	343	Vertical	/
3	2390	31.07	40.60	9.53	54.00	13.40	200	175	Vertical	/
4	2412.52125	80.40	90.01	9.61	-	-	100	320	Vertical	No limit

802.11b mode ANT2

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

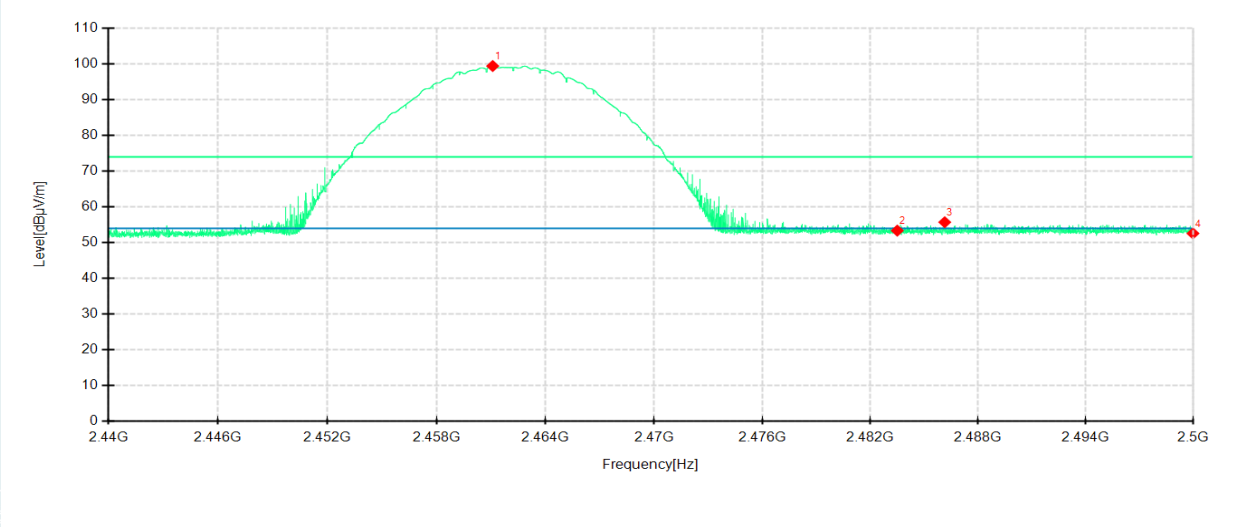
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

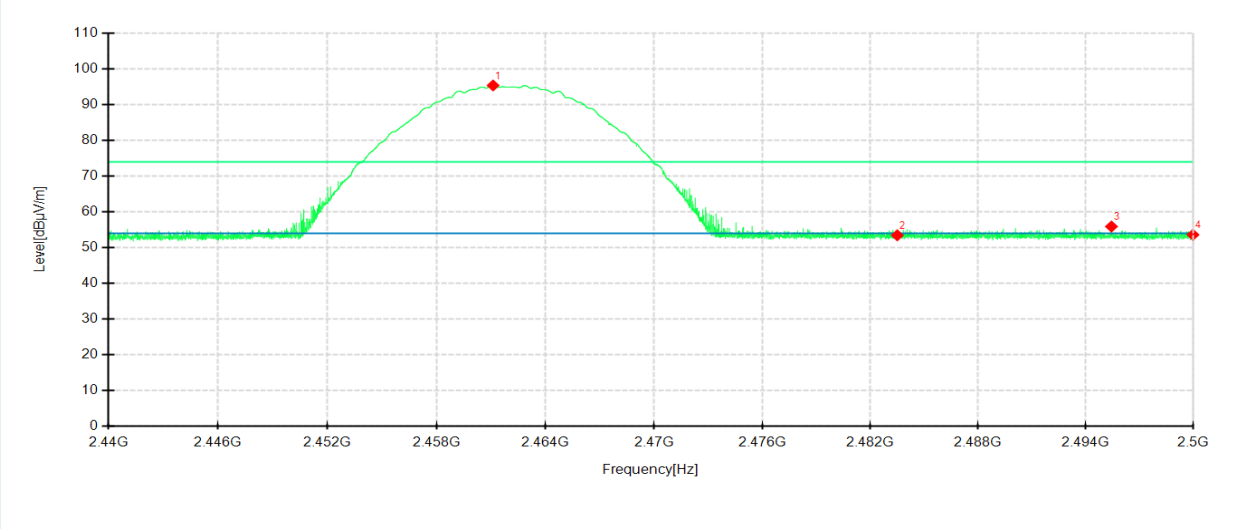
Date: 2023-05-29

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	Remark
1	2461.0975	90.19	99.38	9.19	-	-	100	306	Horizontal	No limit
2	2483.5	43.68	53.36	9.68	74.00	20.64	100	326	Horizontal	/
3	2486.14	45.98	55.72	9.74	74.00	18.28	100	316	Horizontal	/
4	2500	42.52	52.57	10.05	74.00	21.43	100	148	Horizontal	/
1	2461.12	85.74	95.35	9.61	-	-	200	335	Vertical	No limit
2	2483.5	43.70	53.45	9.75	74.00	20.55	100	134	Vertical	/
3	2495.44	46.08	55.90	9.82	74.00	18.10	200	50	Vertical	/
4	2500	43.75	53.60	9.85	74.00	20.40	100	201	Vertical	/

802.11b mode ANT2

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

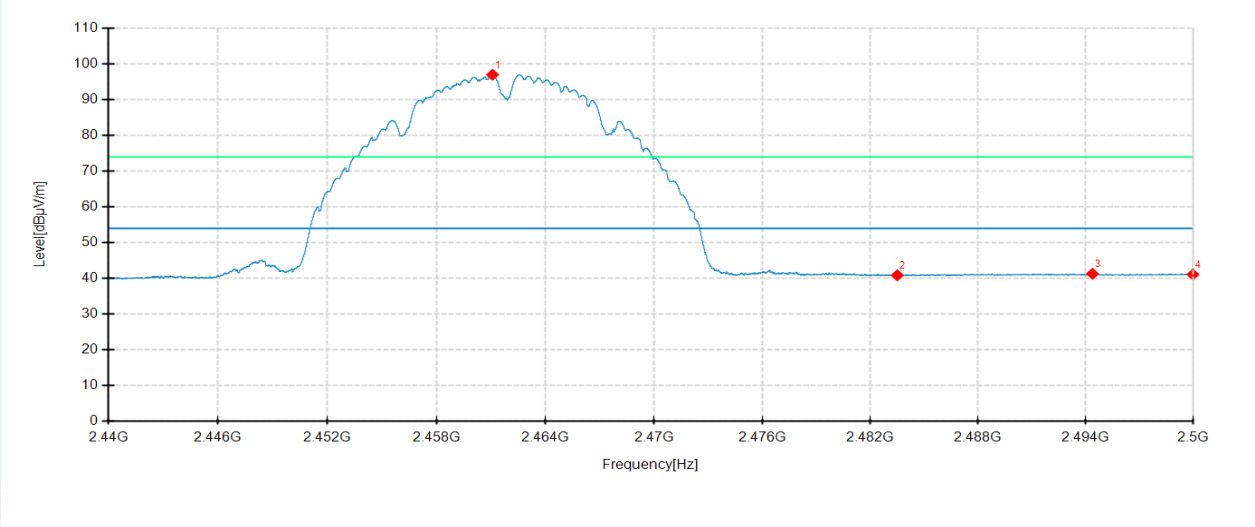
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

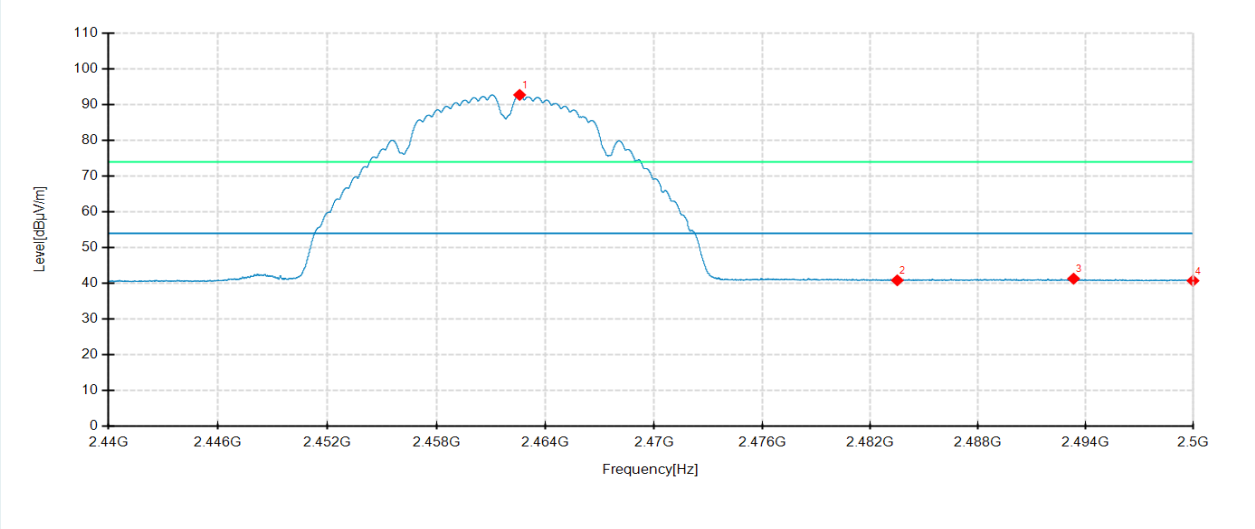
Date: 2023-05-29

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	Remark
1	2461.09	87.76	96.95	9.19	-	-	100	305	Horizontal	No limit
2	2483.5	31.20	40.88	9.68	54.00	13.12	200	134	Horizontal	/
3	2494.3825	31.37	41.30	9.93	54.00	12.70	100	21	Horizontal	/
4	2500	31.04	41.09	10.05	54.00	12.91	100	109	Horizontal	/
1	2462.5825	83.09	92.71	9.62	-	-	100	241	Vertical	No limit
2	2483.5	31.12	40.87	9.75	54.00	13.13	200	10	Vertical	/
3	2493.325	31.51	41.32	9.81	54.00	12.68	200	2	Vertical	/
4	2500	30.90	40.75	9.85	54.00	13.25	200	257	Vertical	/

802.11g mode ANT1

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

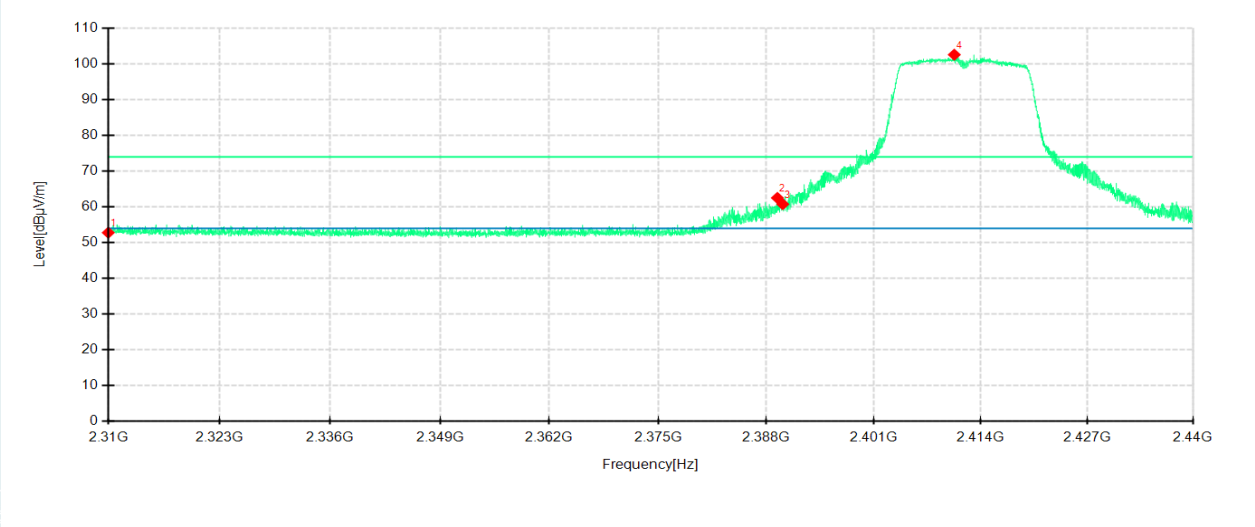
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

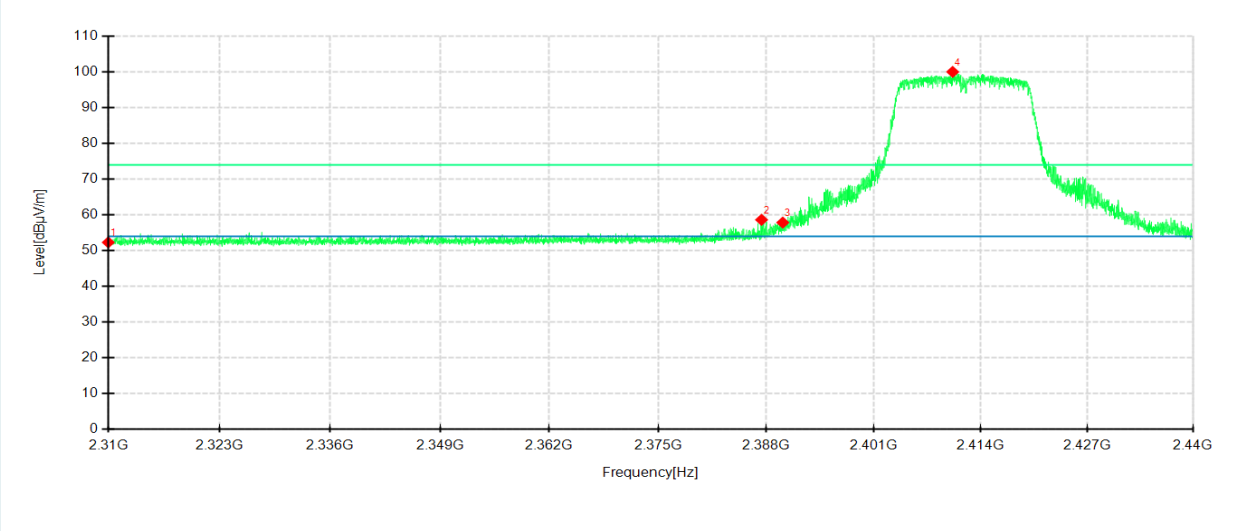
Date: 2023-05-29

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	Remark
1	2310	43.02	52.79	9.77	74.00	21.21	100	178	Horizontal	/
2	2389.34875	53.42	62.52	9.10	74.00	11.48	200	360	Horizontal	/
3	2390	51.64	60.75	9.11	74.00	13.25	200	360	Horizontal	/
4	2410.7825	93.46	102.55	9.09	-	-	200	360	Horizontal	No limit
1	2310	43.24	52.31	9.07	74.00	21.69	100	124	Vertical	/
2	2387.4475	49.12	58.62	9.50	74.00	15.38	200	117	Vertical	/
3	2390	48.32	57.85	9.53	74.00	16.15	200	148	Vertical	/
4	2410.5875	90.37	99.98	9.61	-	-	200	138	Vertical	No limit

802.11g mode ANT1

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

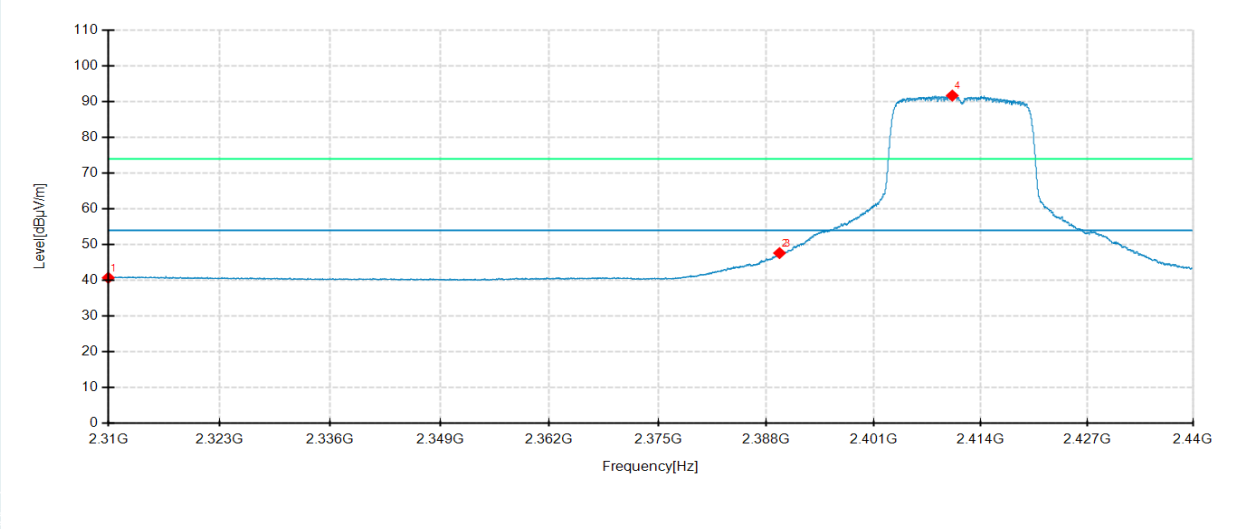
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

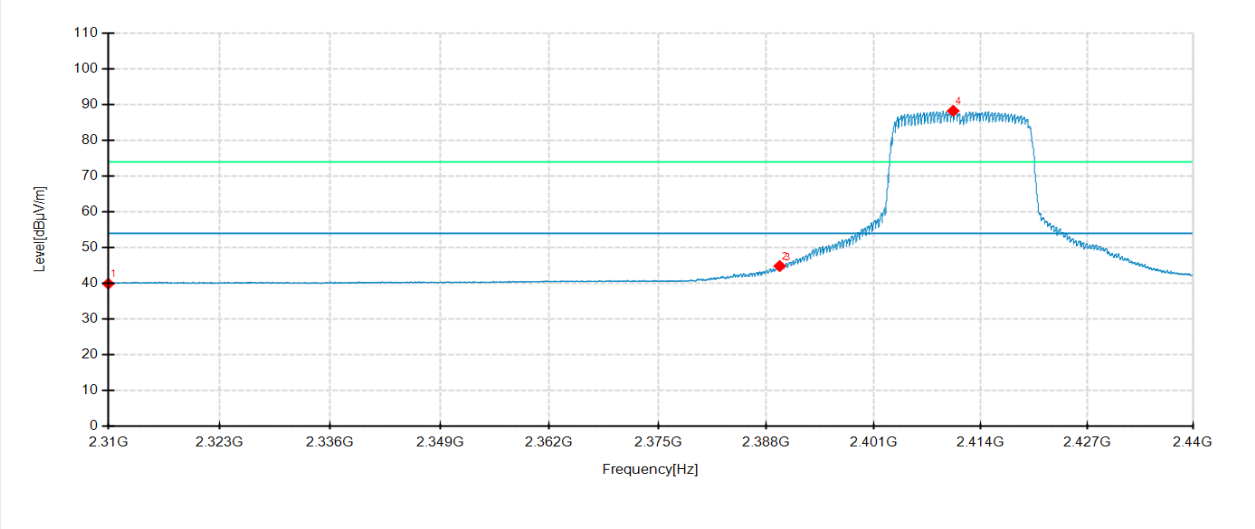
Date: 2023-05-29

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	Remark
1	2310	30.97	40.74	9.77	54.00	13.26	200	78	Horizontal	/
2	2389.60875	38.54	47.65	9.11	54.00	6.35	200	354	Horizontal	/
3	2390	38.42	47.53	9.11	54.00	6.47	200	16	Horizontal	/
4	2410.53875	82.58	91.67	9.09	-	-	200	354	Horizontal	No limit
1	2310	30.84	39.91	9.07	54.00	14.09	100	144	Vertical	/
2	2389.64125	35.33	44.86	9.53	54.00	9.14	200	148	Vertical	/
3	2390	35.07	44.60	9.53	54.00	9.40	200	148	Vertical	/
4	2410.6525	78.64	88.25	9.61	-	-	200	148	Vertical	No limit

802.11g mode ANT1

Highest Channel

Frequency 2462MHz

Environment: 22.6℃/65%RH /101.0kPa

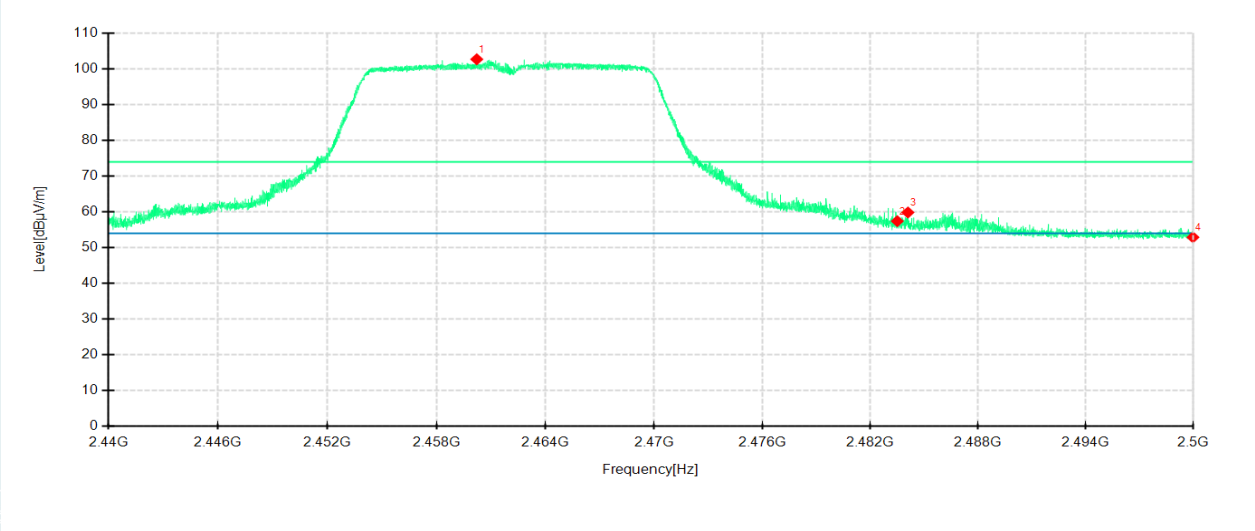
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

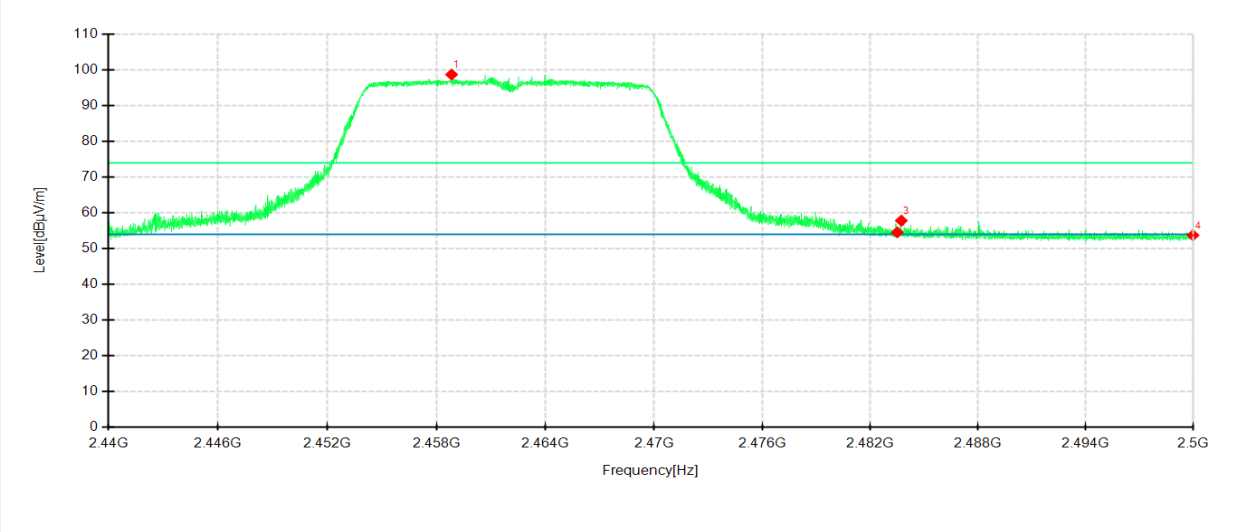
Date: 2023-05-29

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	Remark
1	2460.22	93.51	102.67	9.16	-	-	200	358	Horizontal	No limit
2	2483.5	47.73	57.41	9.68	74.00	16.59	100	286	Horizontal	/
3	2484.0925	50.14	59.83	9.69	74.00	14.17	200	349	Horizontal	/
4	2500	42.84	52.89	10.05	74.00	21.11	100	286	Horizontal	/
1	2458.8325	89.07	98.67	9.60	-	-	100	184	Vertical	No limit
2	2483.5	44.80	54.55	9.75	74.00	19.45	100	87	Vertical	/
3	2483.725	48.08	57.83	9.75	74.00	16.17	100	184	Vertical	/
4	2500	43.90	53.75	9.85	74.00	20.25	100	283	Vertical	/

802.11g mode ANT1

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

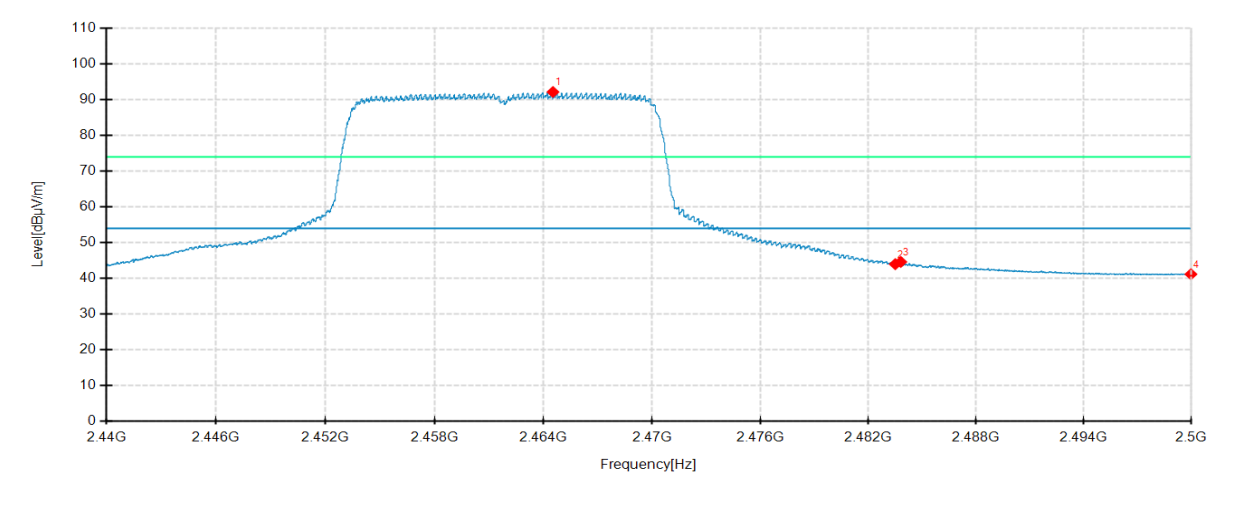
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

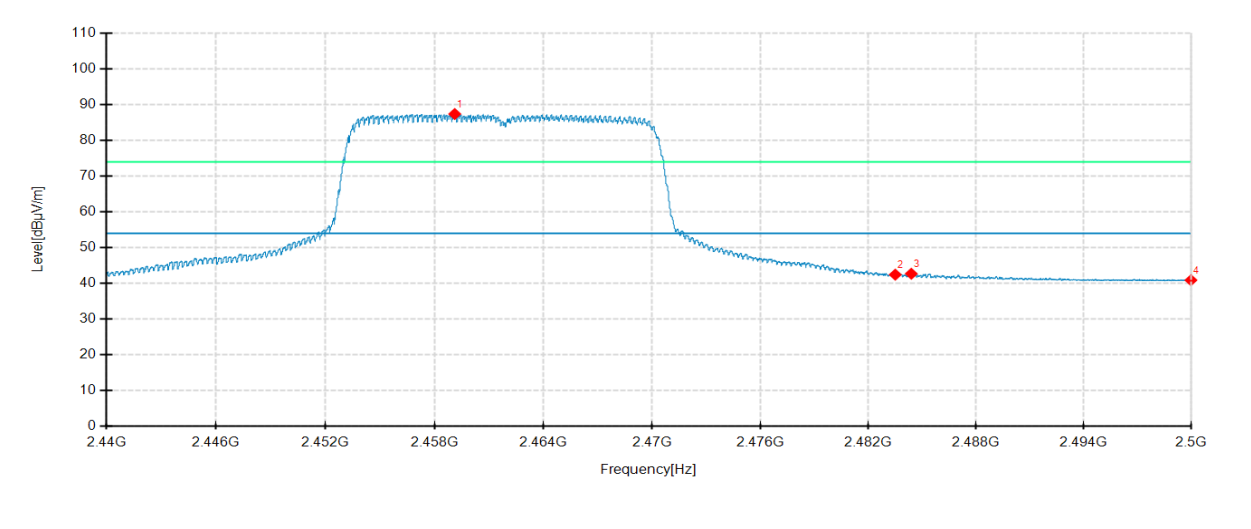
Date: 2023-05-29

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	Remark
1	2464.5325	82.87	92.13	9.26	-	-	200	359	Horizontal	No limit
2	2483.5	34.31	43.99	9.68	54.00	10.01	100	267	Horizontal	/
3	2483.8075	34.92	44.61	9.69	54.00	9.39	200	359	Horizontal	/
4	2500	31.12	41.17	10.05	54.00	12.83	100	128	Horizontal	/
1	2459.1175	77.76	87.36	9.60	-	-	100	183	Vertical	No limit
2	2483.5	32.70	42.45	9.75	54.00	11.55	100	183	Vertical	/
3	2484.3925	32.95	42.70	9.75	54.00	11.30	100	183	Vertical	/
4	2500	31.05	40.90	9.85	54.00	13.10	200	40	Vertical	/

802.11g mode ANT2

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

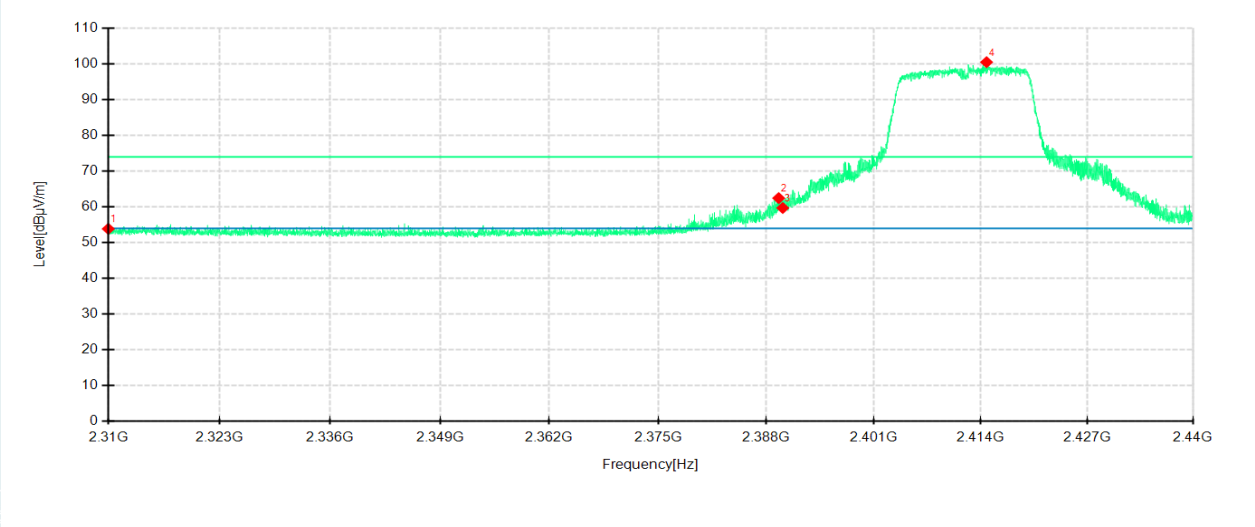
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

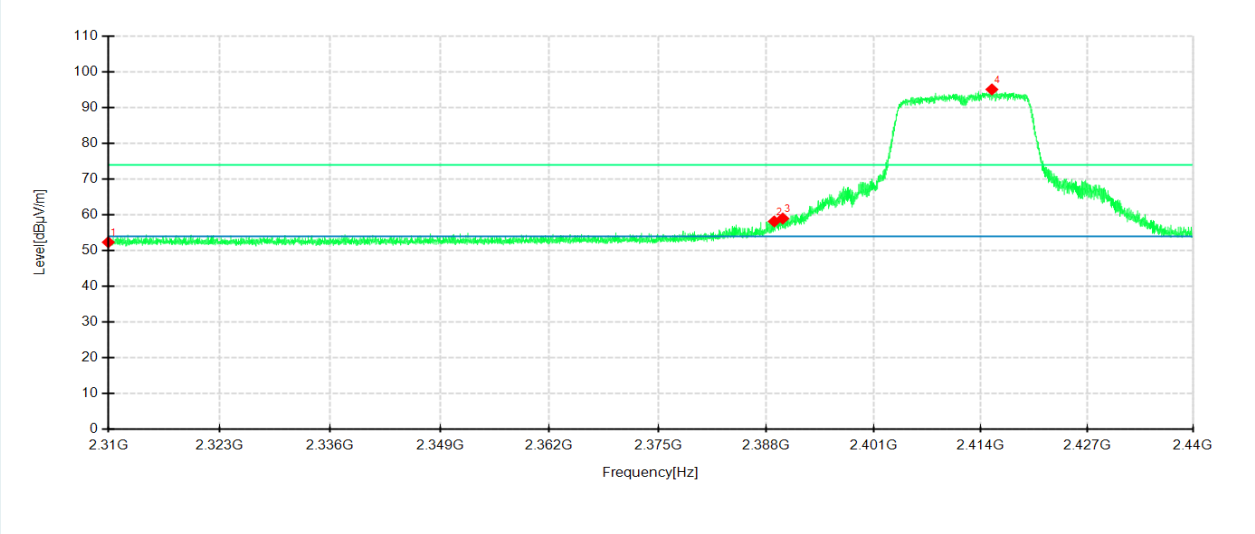
Date: 2023-05-29

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	Remark
1	2310	44.09	53.86	9.77	74.00	20.14	200	271	Horizontal	/
2	2389.51125	53.34	62.44	9.10	74.00	11.56	100	315	Horizontal	/
3	2390	50.58	59.69	9.11	74.00	14.31	100	305	Horizontal	/
4	2414.715	91.39	100.46	9.07	-	-	100	305	Horizontal	No limit
1	2310	43.28	52.35	9.07	74.00	21.65	200	205	Vertical	/
2	2388.975	48.64	58.16	9.52	74.00	15.84	200	88	Vertical	/
3	2390	49.46	58.99	9.53	74.00	15.01	200	88	Vertical	/
4	2415.365	85.47	95.07	9.60	-	-	200	19	Vertical	No limit

802.11g mode ANT2

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

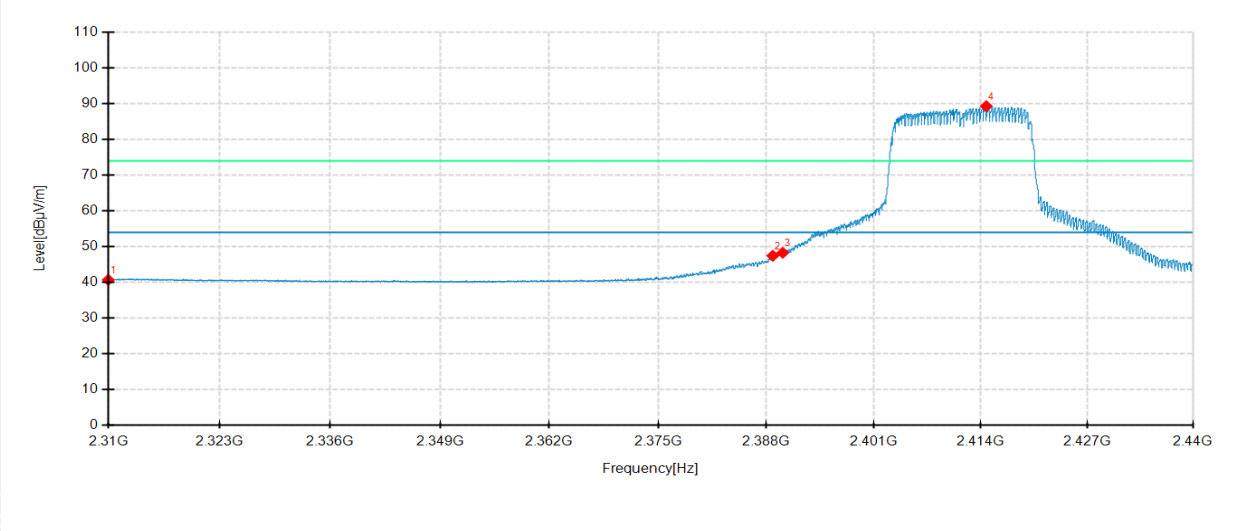
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

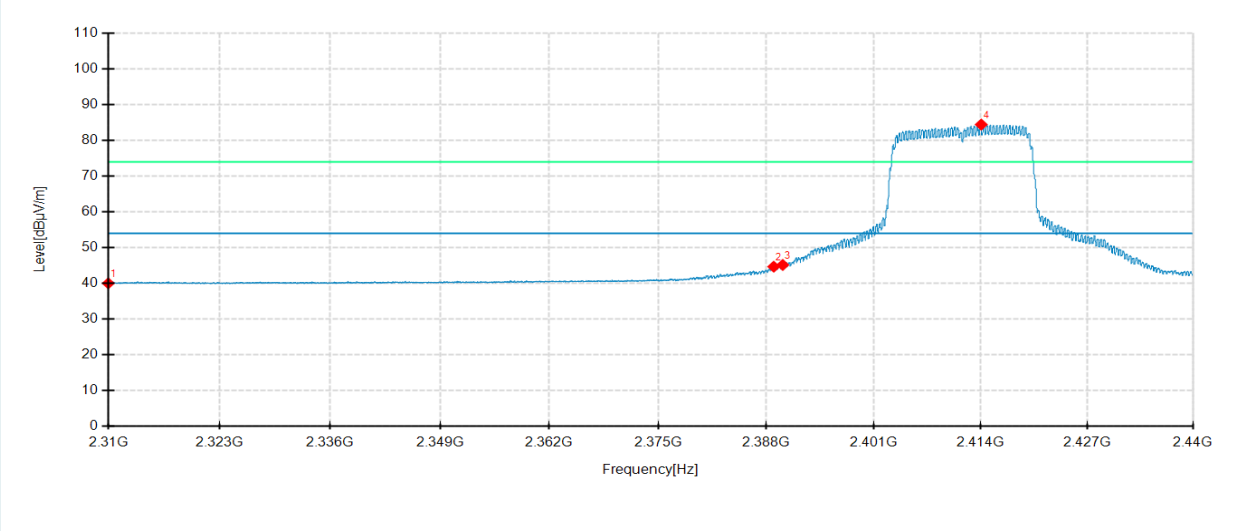
Date: 2023-05-29

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	Remark
1	2310	30.94	40.71	9.77	54.00	13.29	100	98	Horizontal	/
2	2388.79625	38.36	47.46	9.10	54.00	6.54	100	304	Horizontal	/
3	2390	39.18	48.29	9.11	54.00	5.71	100	304	Horizontal	/
4	2414.6825	80.21	89.28	9.07	-	-	100	314	Horizontal	No limit
1	2310	30.96	40.03	9.07	54.00	13.97	200	88	Vertical	/
2	2388.91	35.16	44.68	9.52	54.00	9.32	200	88	Vertical	/
3	2390	35.63	45.16	9.53	54.00	8.84	200	88	Vertical	/
4	2414.065	74.81	84.42	9.61	-	-	200	19	Vertical	No limit

802.11g mode ANT2**Highest Channel**

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

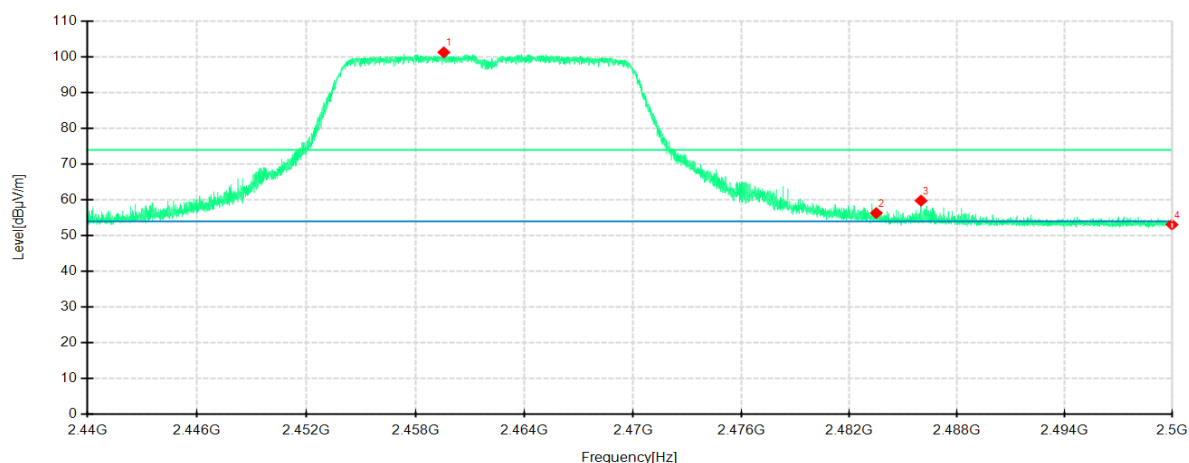
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

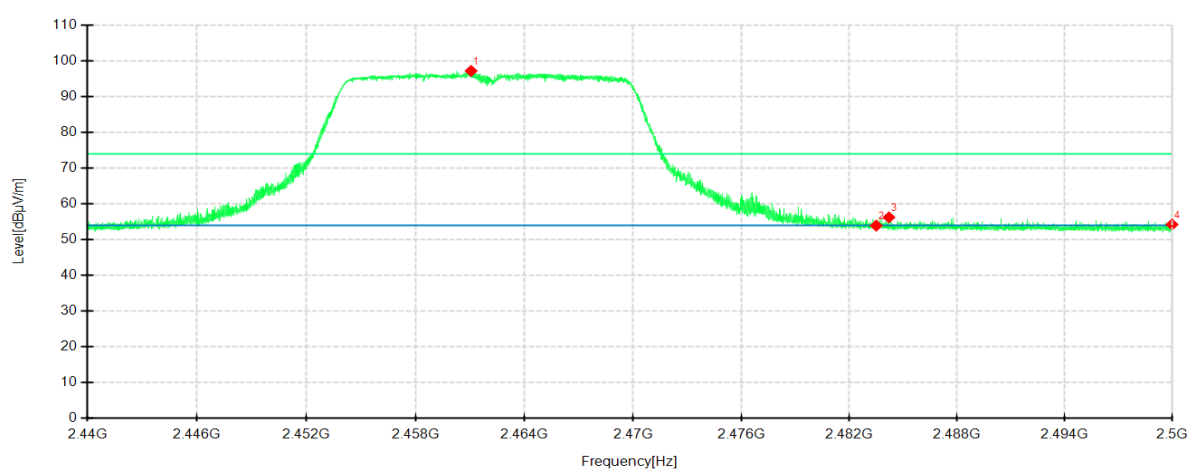
Date: 2023-05-29

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	Remark
1	2459.56	92.10	101.25	9.15	-	-	100	306	Horizontal	No limit
2	2483.5	46.63	56.31	9.68	74.00	17.69	100	317	Horizontal	/
3	2485.99	50.04	59.78	9.74	74.00	14.22	100	306	Horizontal	/
4	2500	43.03	53.08	10.05	74.00	20.92	200	341	Horizontal	/
1	2461.0675	87.57	97.18	9.61	-	-	200	334	Vertical	No limit
2	2483.5	44.17	53.92	9.75	74.00	20.08	100	213	Vertical	/
3	2484.205	46.47	56.22	9.75	74.00	17.78	200	226	Vertical	/
4	2500	44.37	54.22	9.85	74.00	19.78	200	314	Vertical	/

802.11g mode ANT2

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

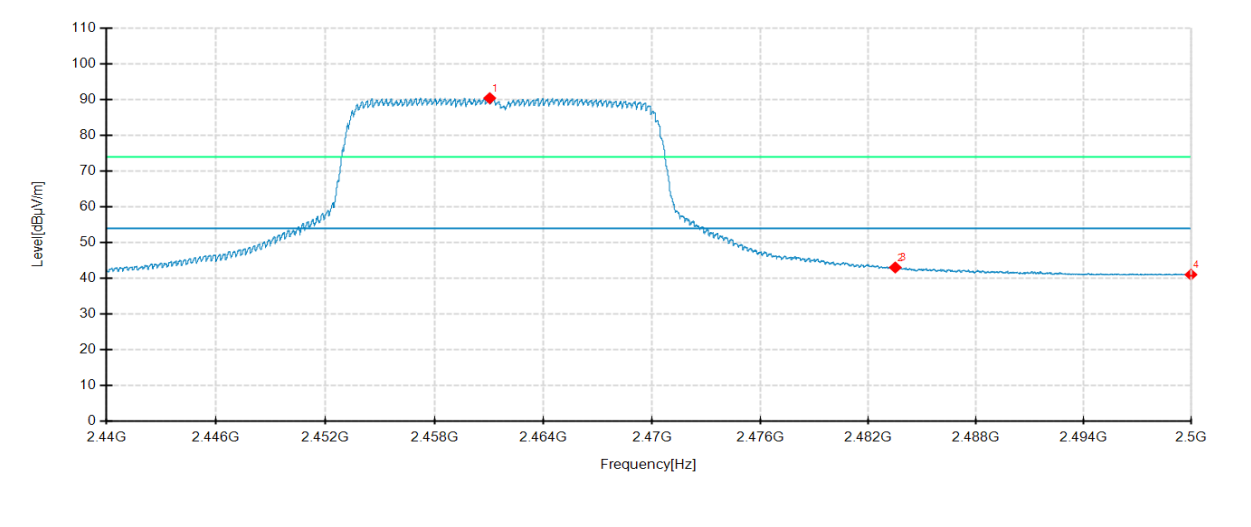
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

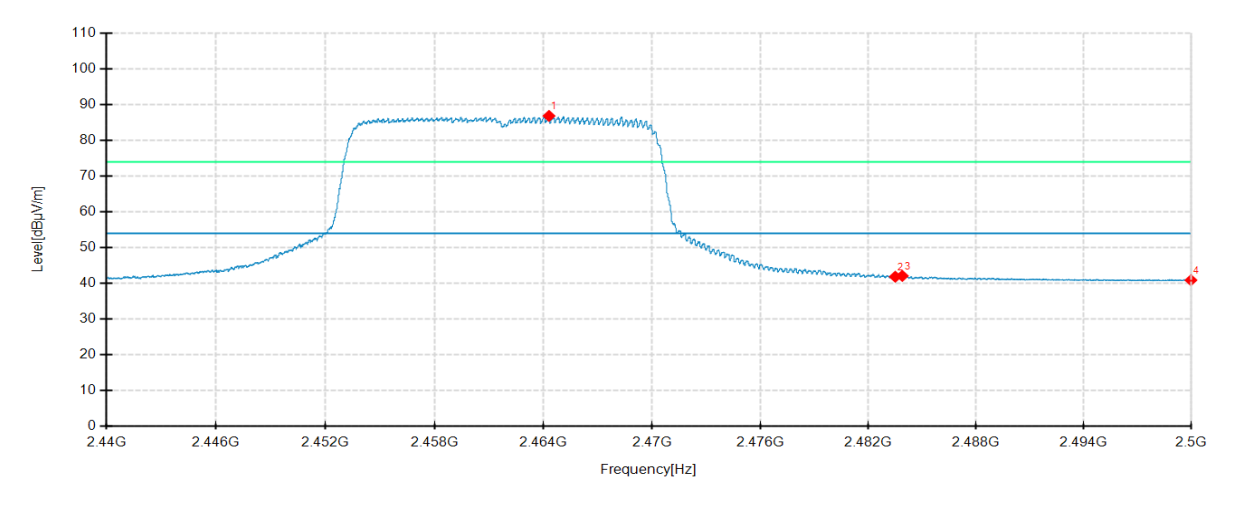
Date: 2023-05-29

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	Remark
1	2461.045	81.20	90.39	9.19	-	-	100	305	Horizontal	No limit
2	2483.5	33.38	43.06	9.68	54.00	10.94	100	315	Horizontal	/
3	2483.6575	33.45	43.14	9.69	54.00	10.86	200	143	Horizontal	/
4	2500	31.00	41.05	10.05	54.00	12.95	200	349	Horizontal	/
1	2464.315	77.19	86.82	9.63	-	-	100	231	Vertical	No limit
2	2483.5	32.12	41.87	9.75	54.00	12.13	100	241	Vertical	/
3	2483.89	32.35	42.10	9.75	54.00	11.90	100	241	Vertical	/
4	2500	31.05	40.90	9.85	54.00	13.10	200	326	Vertical	/

802.11n HT20 mode**Lowest Channel**

Frequency 2412MHz

Environment: 23.2°C/63%RH/101.0kPa

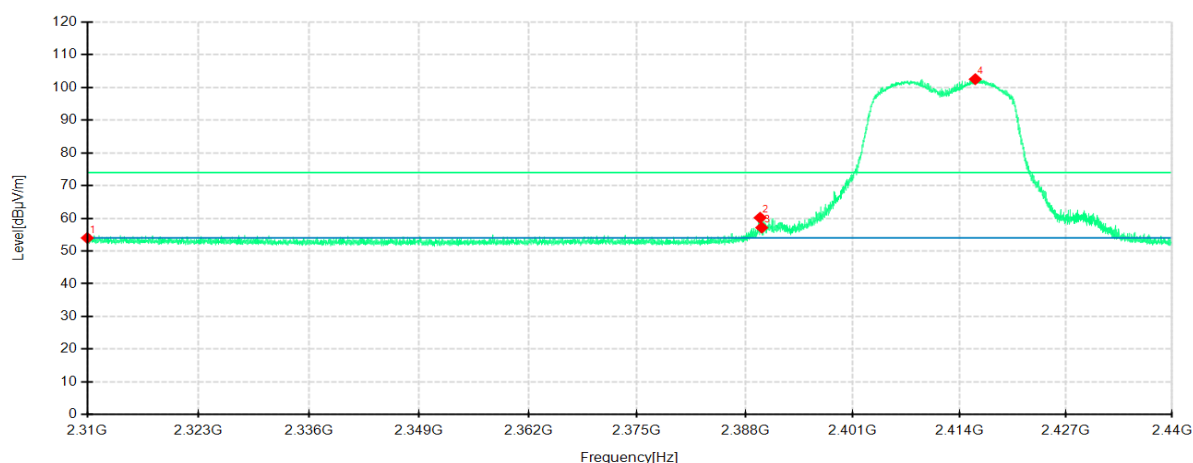
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

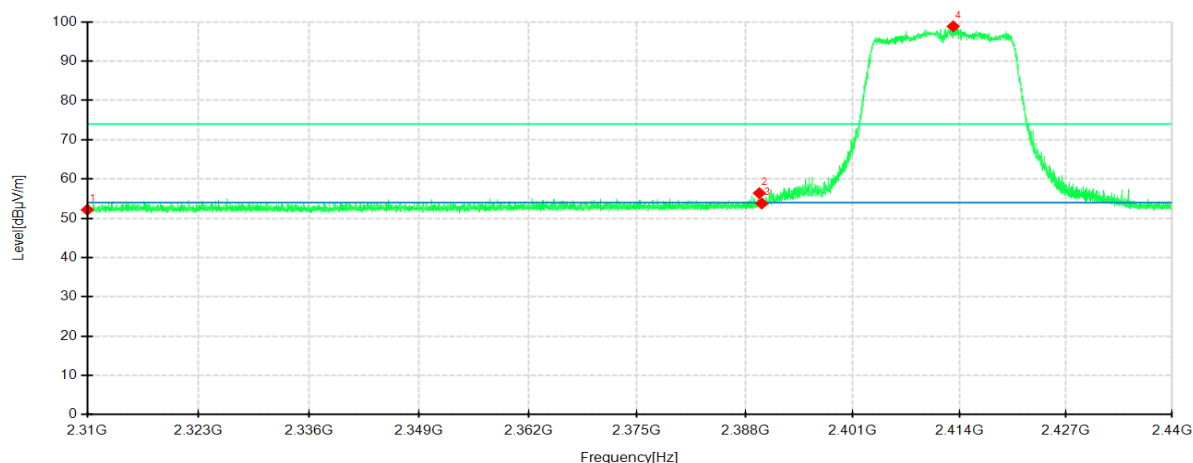
Date: 2023-05-29

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	Remark
1	2310	44.23	54.00	9.77	74.00	20.00	200	242	Horizontal	/
2	2389.80375	51.07	60.18	9.11	74.00	13.82	200	16	Horizontal	/
3	2390	48.05	57.16	9.11	74.00	16.84	200	16	Horizontal	/
4	2415.90125	93.45	102.52	9.07	-	-	100	314	Horizontal	No limit
1	2310	43.11	52.18	9.07	74.00	21.82	200	245	Vertical	/
2	2389.70625	46.88	56.41	9.53	74.00	17.59	100	232	Vertical	/
3	2390	44.24	53.77	9.53	74.00	20.23	100	250	Vertical	/
4	2413.20375	89.27	98.88	9.61	-	-	100	192	Vertical	No limit

802.11n HT20 mode**Lowest Channel**

Frequency 2412MHz

Environment: 23.2°C/63%RH/101.0kPa

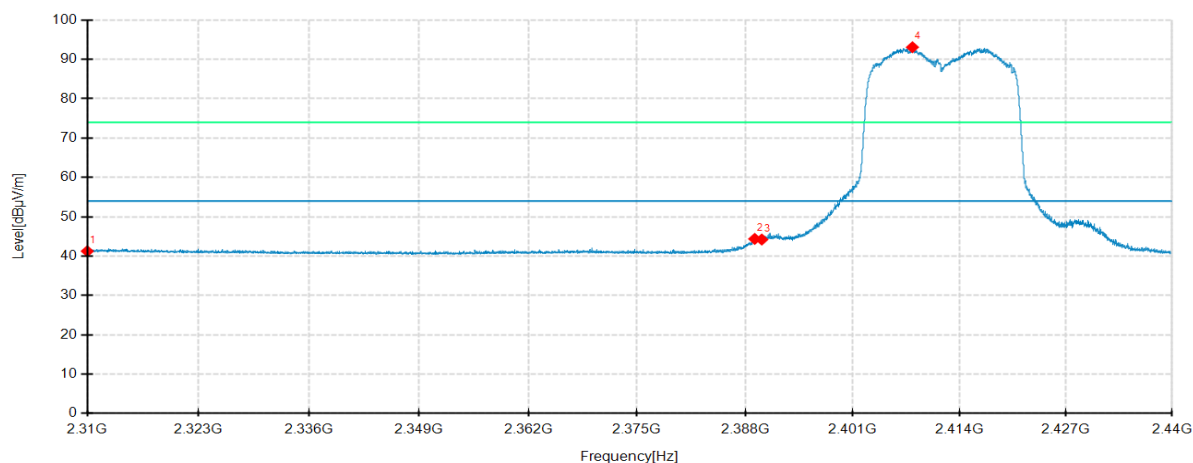
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

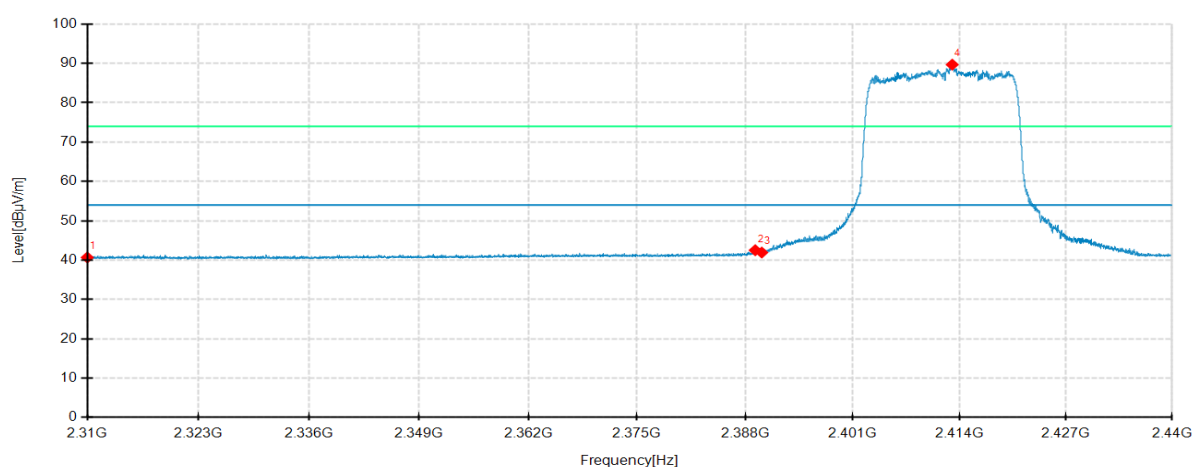
Date: 2023-05-29

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	Remark
1	2310	31.48	41.25	9.77	54.00	12.75	100	245	Horizontal	/
2	2389.15375	35.27	44.37	9.10	54.00	9.63	100	8	Horizontal	/
3	2390	35.10	44.21	9.11	54.00	9.79	200	16	Horizontal	/
4	2408.2475	83.99	93.09	9.10	-	-	100	1	Horizontal	No limit
1	2310	31.60	40.67	9.07	54.00	13.33	200	8	Vertical	/
2	2389.21875	32.99	42.51	9.52	54.00	11.49	100	212	Vertical	/
3	2390	32.40	41.93	9.53	54.00	12.07	100	282	Vertical	/
4	2413.09	80.07	89.68	9.61	-	-	100	184	Vertical	No limit

802.11n HT20 mode**Highest Channel**

Frequency 2462MHz

Environment: 23.2°C/63%RH/101.0kPa

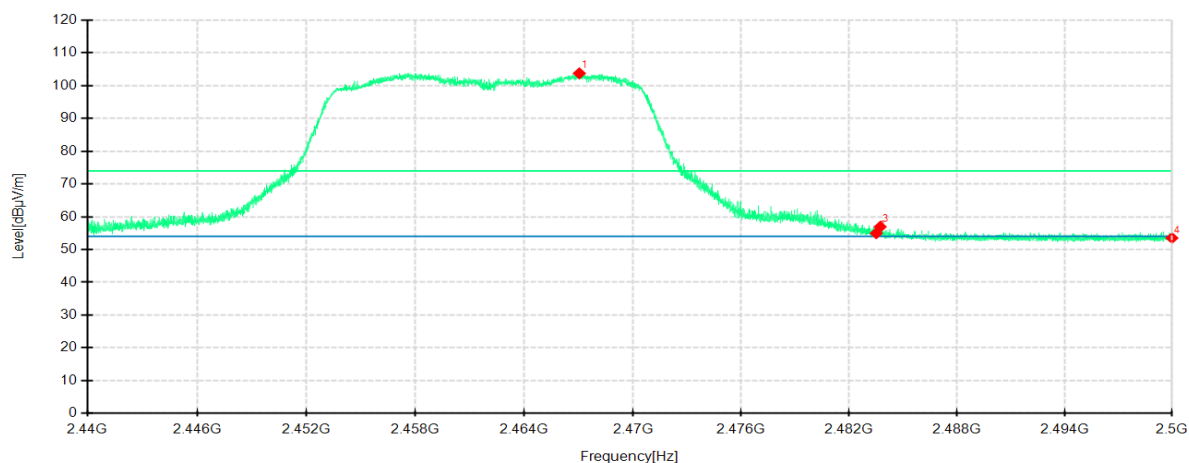
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

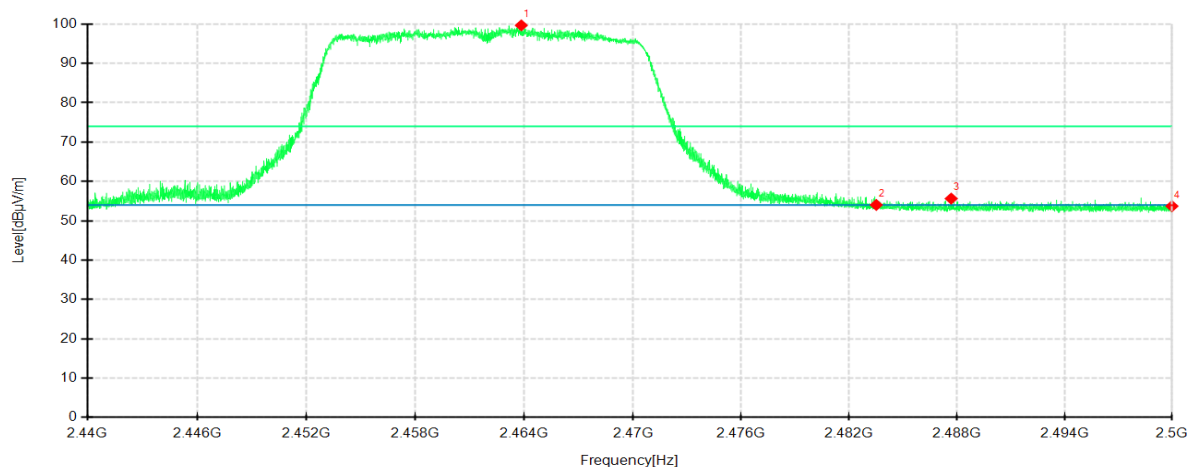
Date: 2023-05-29

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	Remark
1	2467.0375	94.42	103.74	9.32	-	-	200	359	Horizontal	No limit
2	2483.5	45.28	54.96	9.68	74.00	19.04	200	359	Horizontal	/
3	2483.7175	47.24	56.93	9.69	74.00	17.07	200	359	Horizontal	/
4	2500	43.47	53.52	10.05	74.00	20.48	100	305	Horizontal	/
1	2463.835	90.04	99.67	9.63	-	-	100	222	Vertical	No limit
2	2483.5	44.27	54.02	9.75	74.00	19.98	100	194	Vertical	/
3	2487.67	45.85	55.63	9.78	74.00	18.37	200	0	Vertical	/
4	2500	43.86	53.71	9.85	74.00	20.29	100	45	Vertical	/

802.11n HT20 mode**Highest Channel**

Frequency 2462MHz

Environment: 23.2°C/63%RH/101.0kPa

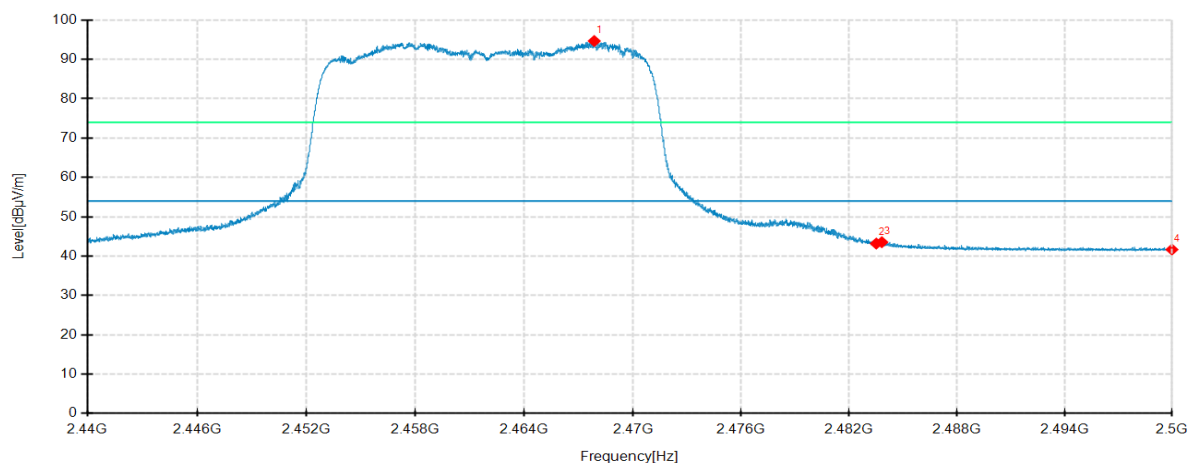
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

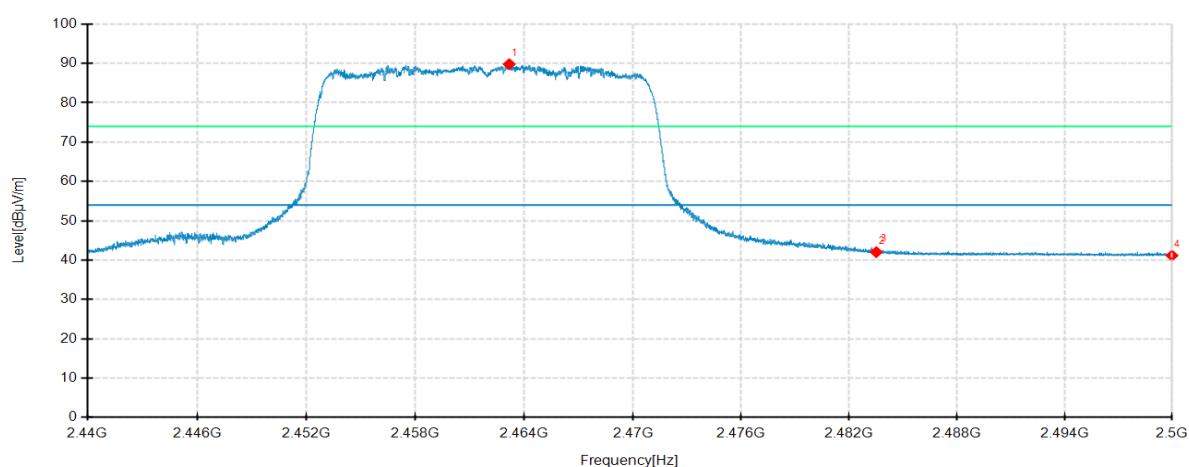
Date: 2023-05-29

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	Remark
1	2467.8625	85.33	94.67	9.34	-	-	200	350	Horizontal	No limit
2	2483.5	33.51	43.19	9.68	54.00	10.81	200	134	Horizontal	/
3	2483.8075	33.84	43.53	9.69	54.00	10.47	200	134	Horizontal	/
4	2500	31.61	41.66	10.05	54.00	12.34	100	60	Horizontal	/
1	2463.1675	80.17	89.80	9.63	-	-	100	193	Vertical	No limit
2	2483.5	32.28	42.03	9.75	54.00	11.97	100	332	Vertical	/
3	2483.6275	32.97	42.72	9.75	54.00	11.28	100	85	Vertical	/
4	2500	31.31	41.16	9.85	54.00	12.84	200	136	Vertical	/

802.11n HT40 mode

Lowest Channel

Frequency 2422MHz

Environment: 23.2°C/63%RH/101.0kPa

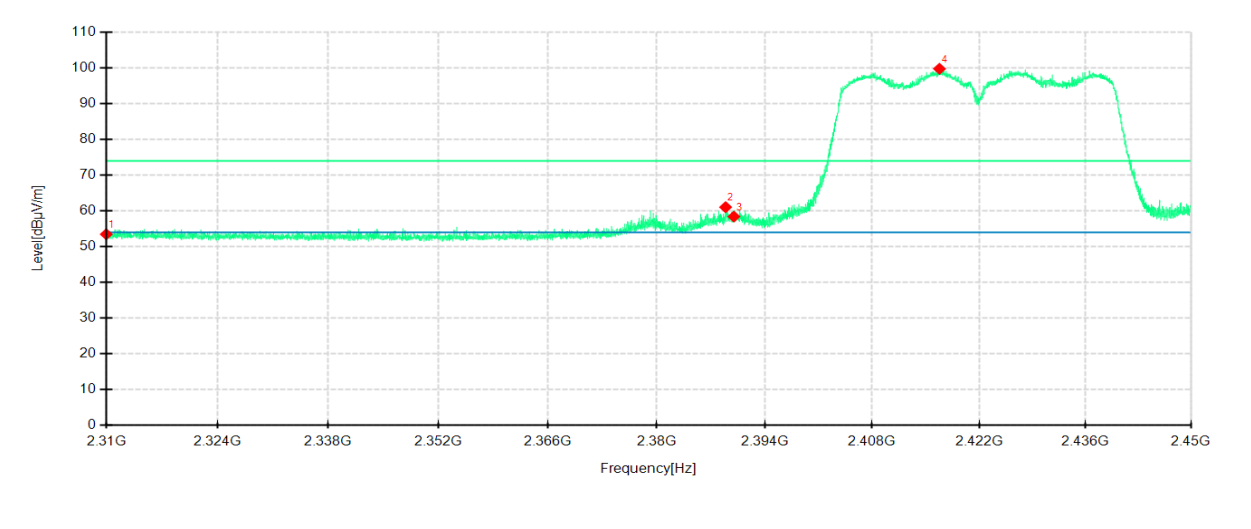
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

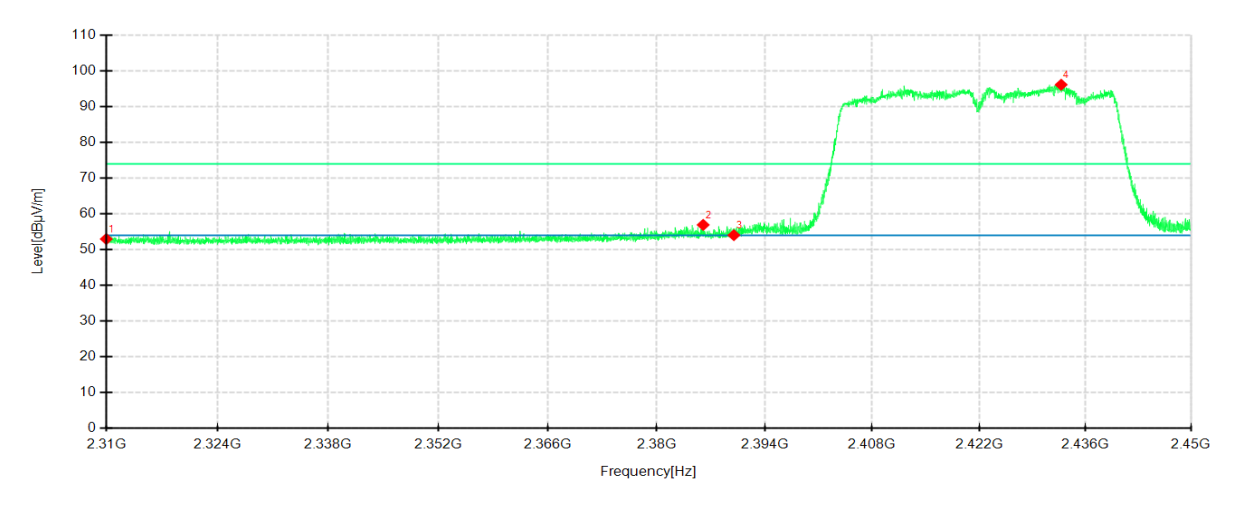
Date: 2023-05-29

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	Remark
1	2310	43.70	53.47	9.77	74.00	20.53	100	86	Horizontal	/
2	2388.925	51.94	61.04	9.10	74.00	12.96	200	17	Horizontal	/
3	2390	49.29	58.40	9.11	74.00	15.60	100	314	Horizontal	/
4	2416.8025	90.65	99.72	9.07	-	-	200	360	Horizontal	No limit
1	2310	43.91	52.98	9.07	74.00	21.02	100	203	Vertical	/
2	2386.02	47.44	56.92	9.48	74.00	17.08	100	334	Vertical	/
3	2390	44.52	54.05	9.53	74.00	19.95	200	147	Vertical	/
4	2432.815	86.53	96.11	9.58	-	-	100	184	Vertical	No limit

802.11n HT40 mode

Lowest Channel

Frequency 2422MHz

Environment: 23.2°C/63%RH/101.0kPa

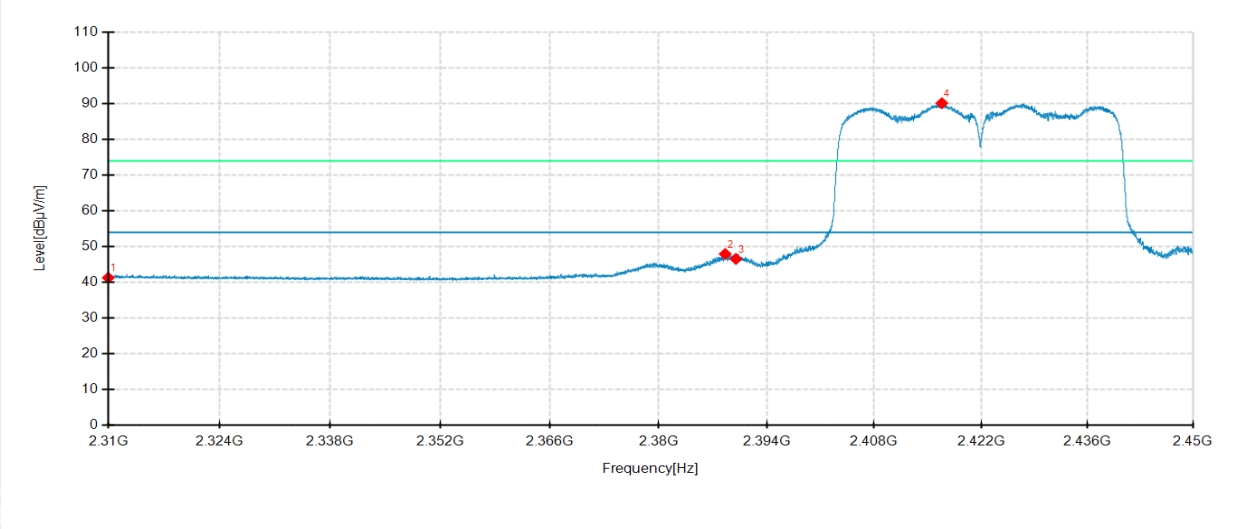
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

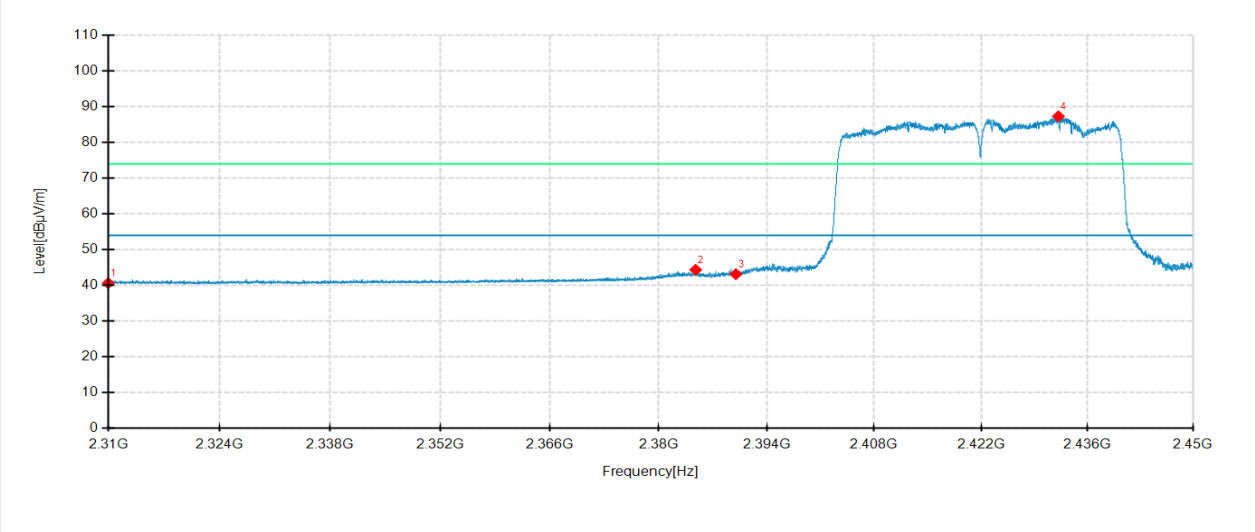
Date: 2023-05-29

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	Remark
1	2310	31.53	41.30	9.77	54.00	12.70	100	68	Horizontal	/
2	2388.61	38.85	47.96	9.11	54.00	6.04	200	16	Horizontal	/
3	2390	37.46	46.57	9.11	54.00	7.43	200	16	Horizontal	/
4	2416.855	81.04	90.11	9.07	-	-	100	306	Horizontal	No limit
1	2310	31.57	40.64	9.07	54.00	13.36	100	252	Vertical	/
2	2384.795	34.88	44.36	9.48	54.00	9.64	100	194	Vertical	/
3	2390	33.61	43.14	9.53	54.00	10.86	100	359	Vertical	/
4	2432.185	77.69	87.26	9.57	-	-	100	184	Vertical	No limit

802.11n HT40 mode**Highest Channel**

Frequency 2452MHz

Environment: 23.2°C/63%RH/101.0kPa

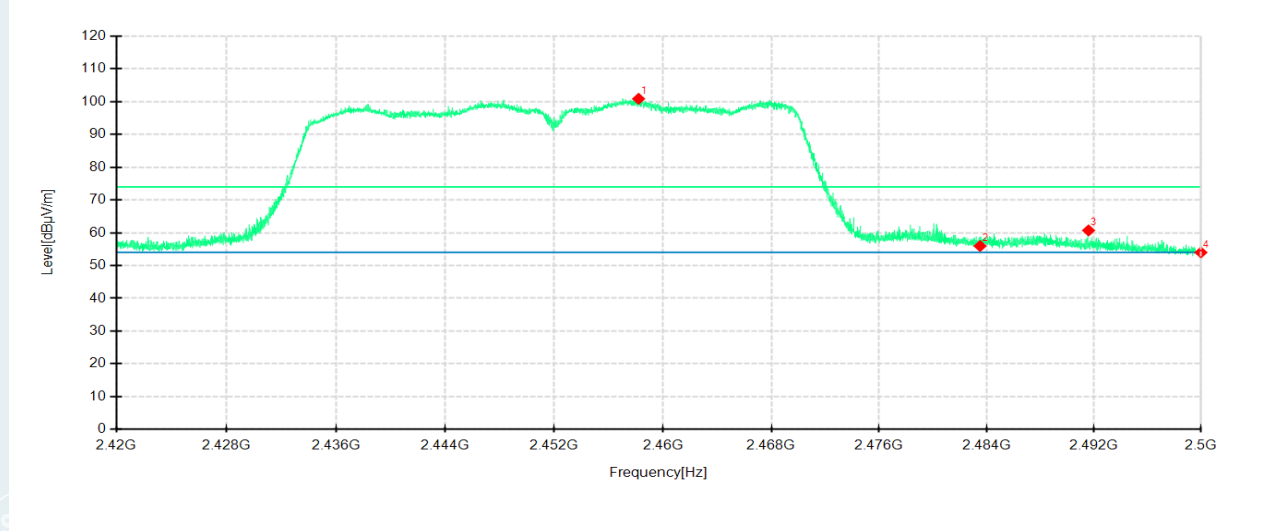
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

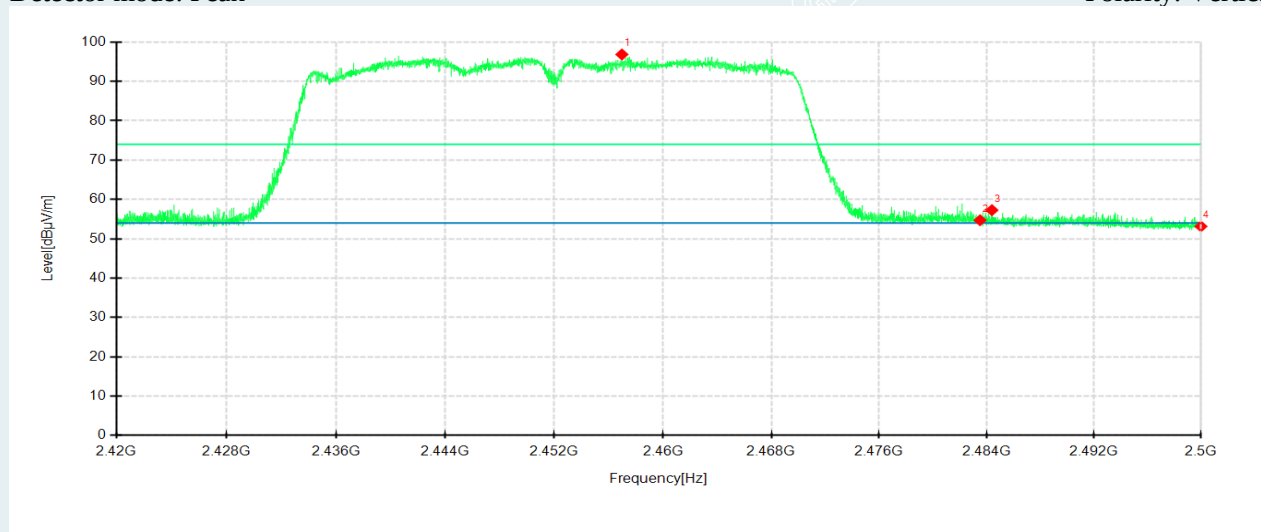
Date: 2023-05-29

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	Remark
1	2458.2	91.74	100.86	9.12	-	-	200	352	Horizontal	No limit
2	2483.5	46.28	55.96	9.68	74.00	18.04	200	272	Horizontal	/
3	2491.59	50.85	60.71	9.86	74.00	13.29	200	134	Horizontal	/
4	2500	43.94	53.99	10.05	74.00	20.01	200	232	Horizontal	/
1	2456.97	87.26	96.84	9.58	-	-	100	233	Vertical	No limit
2	2483.5	44.96	54.71	9.75	74.00	19.29	200	30	Vertical	/
3	2484.38	47.53	57.28	9.75	74.00	16.72	100	213	Vertical	/
4	2500	43.29	53.14	9.85	74.00	20.86	100	114	Vertical	/

802.11n HT40 mode**Highest Channel**

Frequency 2452MHz

Environment: 23.2°C/63%RH/101.0kPa

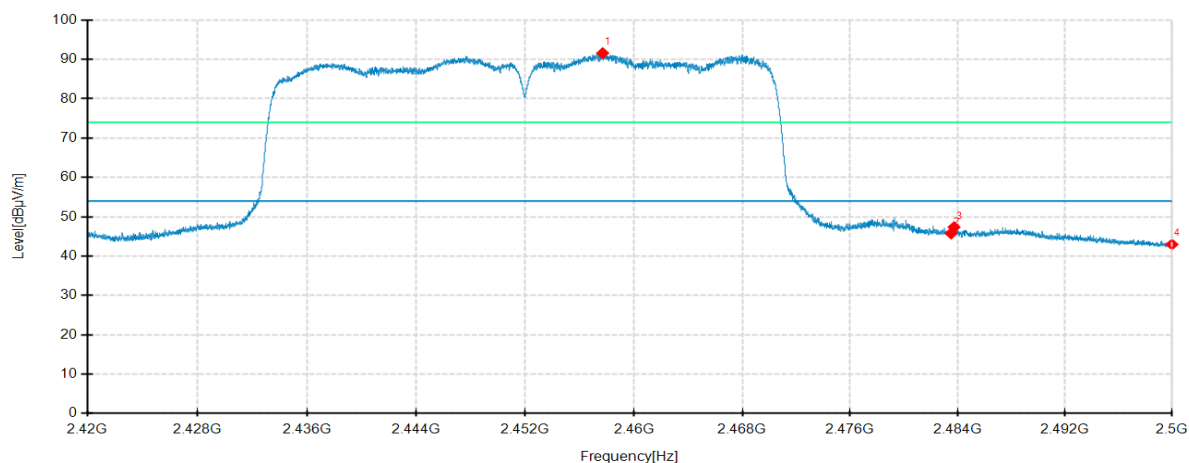
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

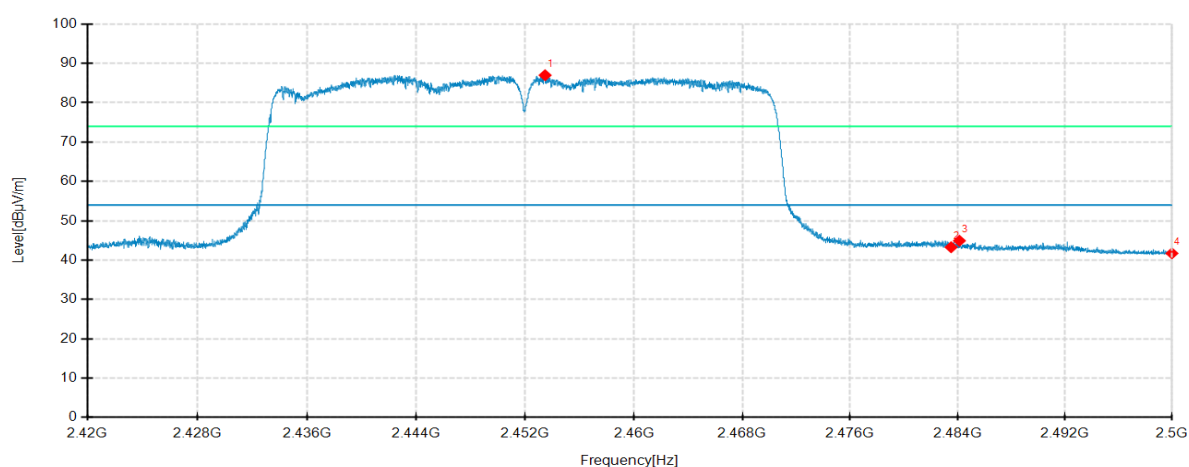
Date: 2023-05-29

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



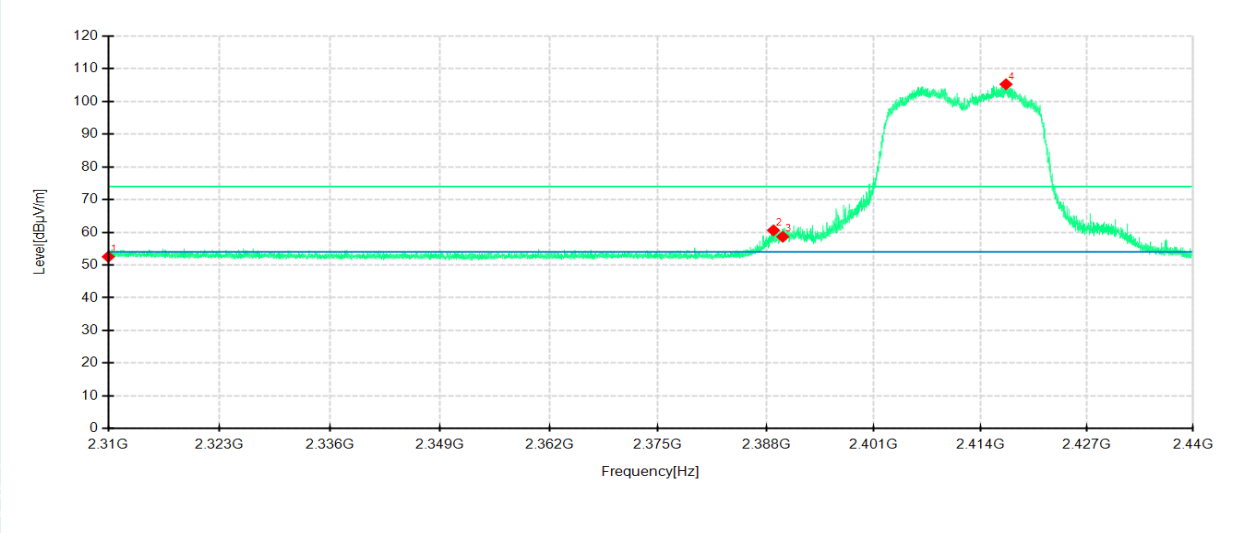
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2457.69	82.48	91.59	9.11	-	-	200	352	Horizontal	No limit
2	2483.5	36.08	45.76	9.68	54.00	8.24	200	134	Horizontal	/
3	2483.72	37.67	47.36	9.69	54.00	6.64	100	158	Horizontal	/
4	2500	32.92	42.97	10.05	54.00	11.03	200	359	Horizontal	/
1	2453.45	77.43	86.99	9.56	-	-	100	191	Vertical	No limit
2	2483.5	33.52	43.27	9.75	54.00	10.73	100	181	Vertical	/
3	2484.12	35.17	44.92	9.75	54.00	9.08	100	181	Vertical	/
4	2500	31.87	41.72	9.85	54.00	12.28	100	25	Vertical	/

802.11ax HE20 mode

Lowest Channel

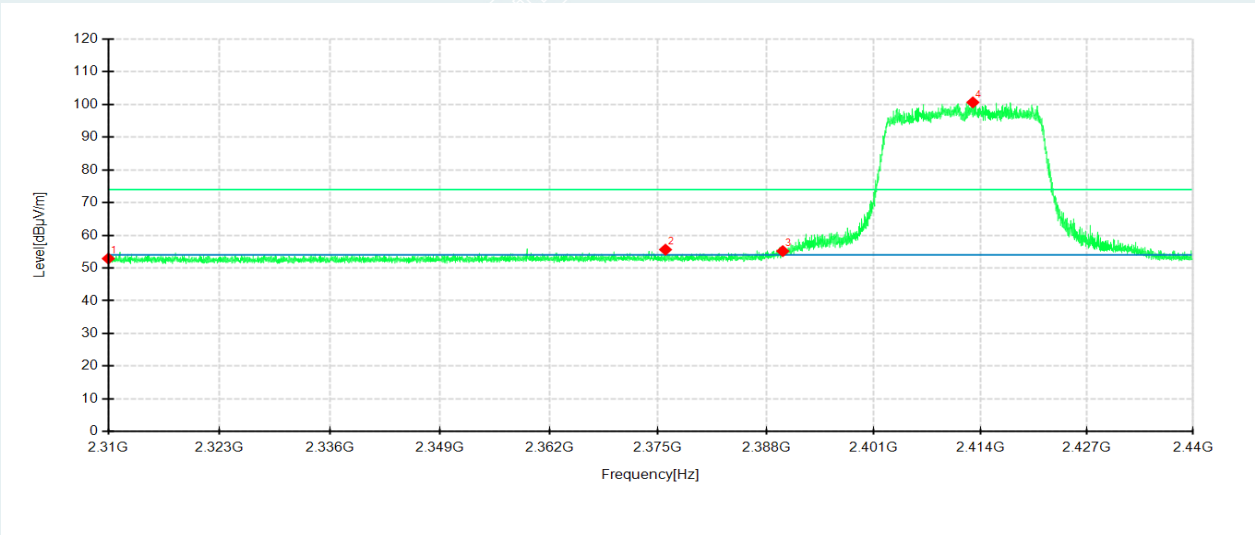
Frequency 2412MHz
Environment: 22.6°C/65%RH /101.0kPa
Tested By: Zhang Qiang
Detector mode: Peak

Voltage: DC 12V
Date: 2023-05-29
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	Remark
1	2310	42.76	52.53	9.77	74.00	21.47	100	295	Horizontal	/
2	2388.8775	51.52	60.62	9.10	74.00	13.38	200	15	Horizontal	/
3	2390	49.54	58.65	9.11	74.00	15.35	100	345	Horizontal	/
4	2417.0875	96.17	105.24	9.07	-	-	100	305	Horizontal	No limit
1	2310	43.83	52.90	9.07	74.00	21.10	200	314	Vertical	/
2	2375.89375	46.25	55.63	9.38	74.00	18.37	200	295	Vertical	/
3	2390	45.64	55.17	9.53	74.00	18.83	100	25	Vertical	/
4	2413.04125	91.02	100.63	9.61	-	-	100	192	Vertical	No limit

802.11ax HE20 mode

Lowest Channel

Frequency 2412MHz

Environment: 22.6°C/65%RH /101.0kPa

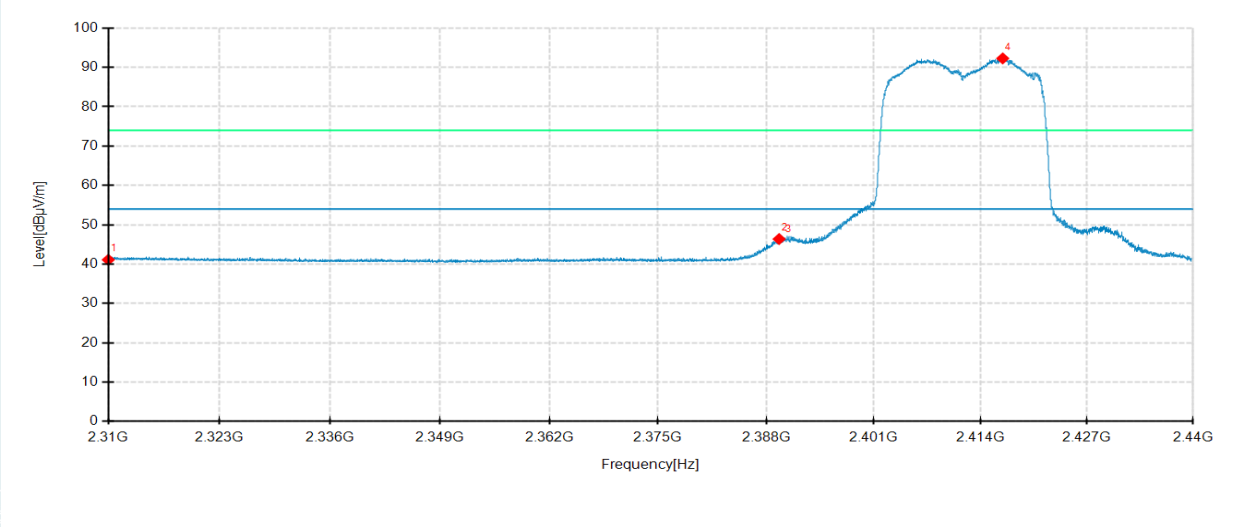
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

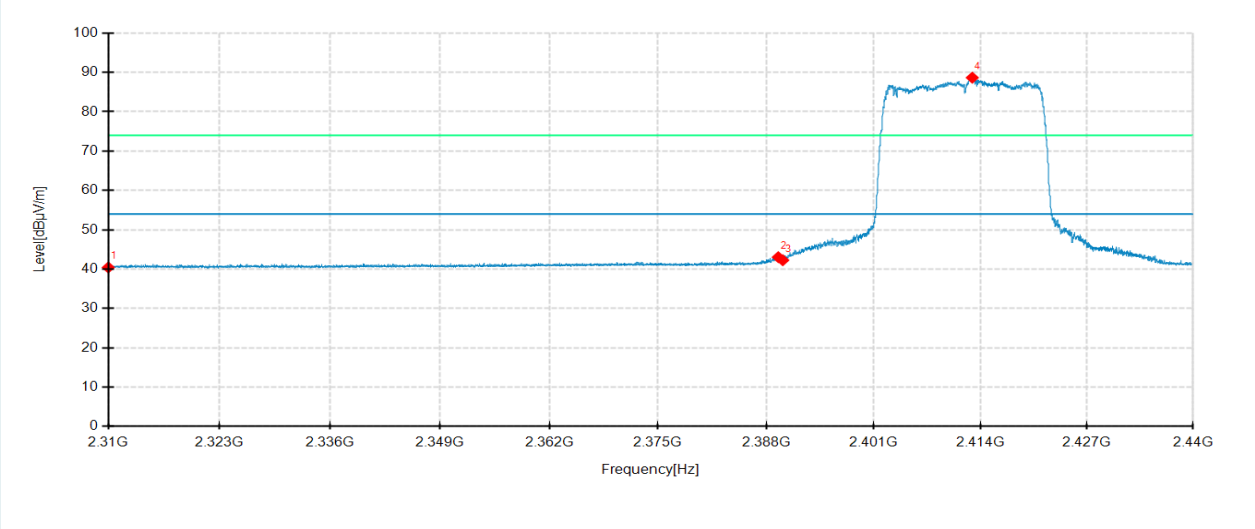
Date: 2023-05-29

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	Remark
1	2310	31.33	41.10	9.77	54.00	12.90	200	16	Horizontal	/
2	2389.56	37.26	46.37	9.11	54.00	7.63	200	16	Horizontal	/
3	2390	36.96	46.07	9.11	54.00	7.93	200	16	Horizontal	/
4	2416.68125	83.21	92.28	9.07	-	-	100	313	Horizontal	No limit
1	2310	31.35	40.42	9.07	54.00	13.58	200	267	Vertical	/
2	2389.4625	33.51	43.03	9.52	54.00	10.97	100	25	Vertical	/
3	2390	32.73	42.26	9.53	54.00	11.74	200	99	Vertical	/
4	2412.97625	79.05	88.66	9.61	-	-	100	193	Vertical	No limit

802.11ax HE20 mode

Highest Channel

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

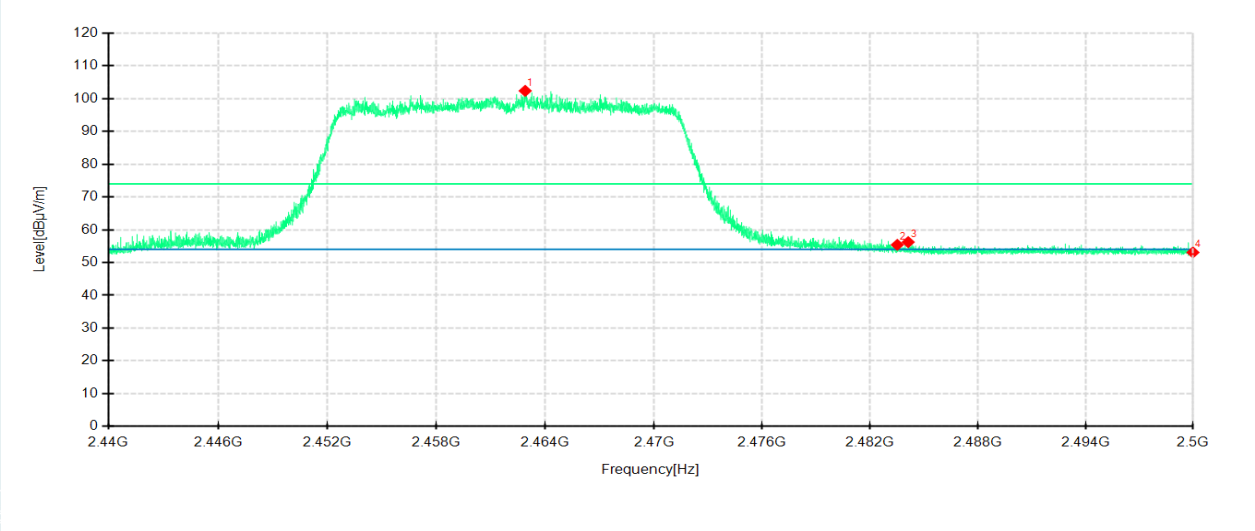
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

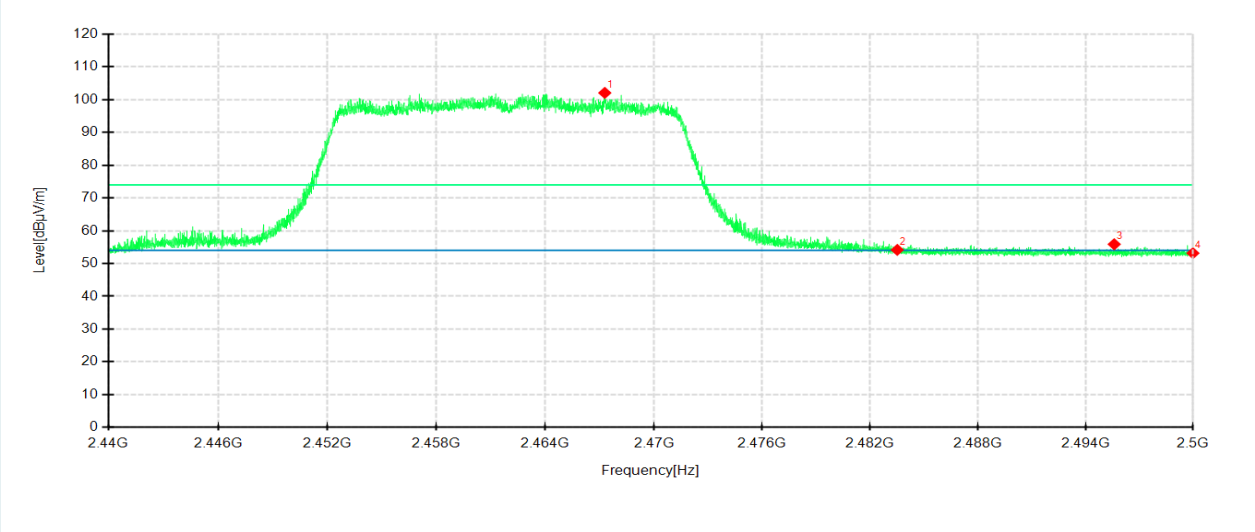
Date: 2023-05-29

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	Remark
1	2462.89	93.15	102.37	9.22	-	-	100	188	Horizontal	No limit
2	2483.5	45.72	55.40	9.68	74.00	18.60	100	188	Horizontal	/
3	2484.1075	46.55	56.24	9.69	74.00	17.76	100	88	Horizontal	/
4	2500	43.03	53.08	10.05	74.00	20.92	200	64	Horizontal	/
1	2467.285	92.41	102.05	9.64	-	-	100	235	Vertical	No limit
2	2483.5	44.42	54.17	9.75	74.00	19.83	100	136	Vertical	/
3	2495.5975	46.07	55.89	9.82	74.00	18.11	200	217	Vertical	/
4	2500	43.31	53.16	9.85	74.00	20.84	200	188	Vertical	/

802.11ax HE20 mode**Highest Channel**

Frequency 2462MHz

Environment: 22.6°C/65%RH /101.0kPa

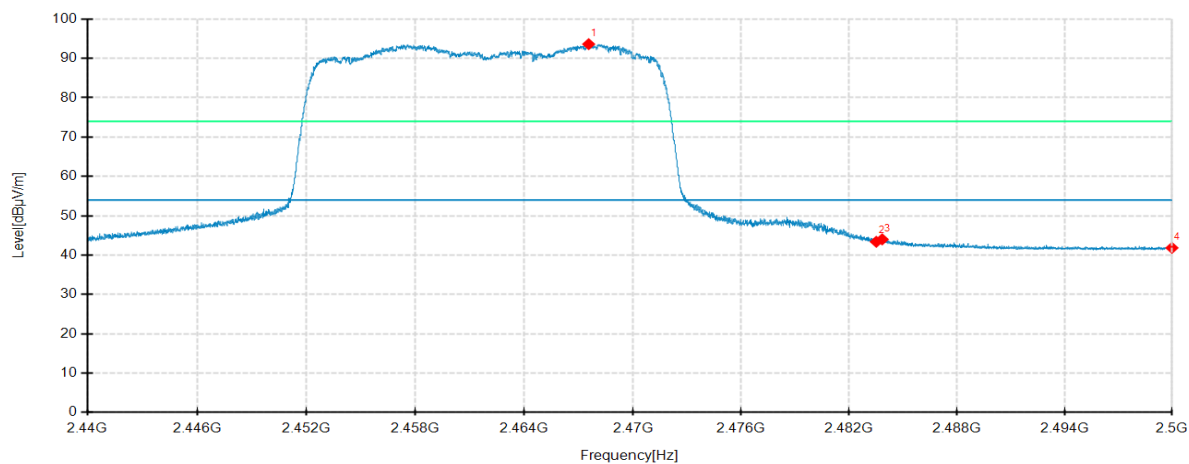
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

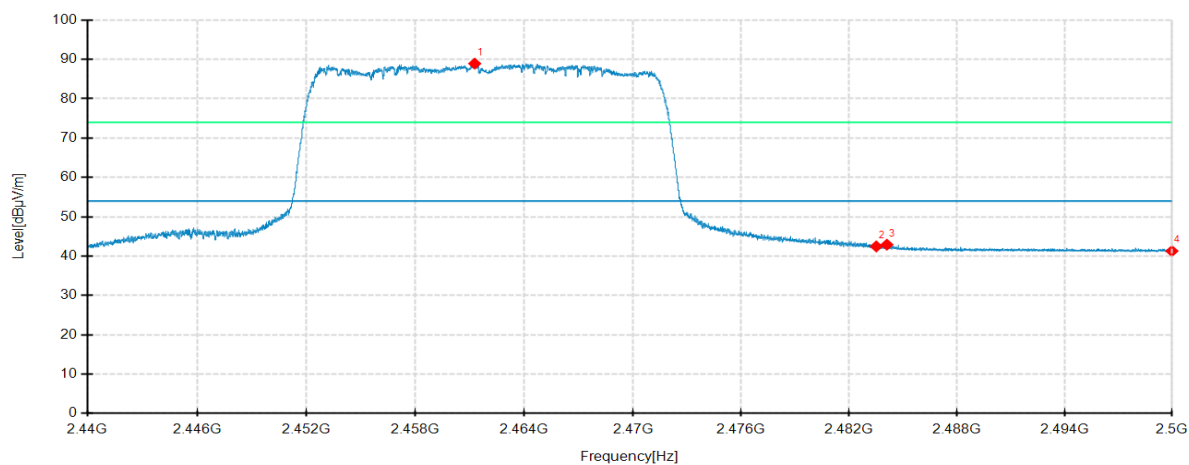
Date: 2023-05-29

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	Remark
1	2467.555	84.29	93.62	9.33	-	-	200	351	Horizontal	No limit
2	2483.5	33.71	43.39	9.68	54.00	10.61	100	236	Horizontal	/
3	2483.83	34.31	44.00	9.69	54.00	10.00	100	157	Horizontal	/
4	2500	31.79	41.84	10.05	54.00	12.16	200	302	Horizontal	/
1	2461.2625	79.32	88.93	9.61	-	-	100	183	Vertical	No limit
2	2483.5	32.71	42.46	9.75	54.00	11.54	100	86	Vertical	/
3	2484.0925	33.16	42.91	9.75	54.00	11.09	100	183	Vertical	/
4	2500	31.43	41.28	9.85	54.00	12.72	200	226	Vertical	/

802.11ax40 mode

Lowest Channel

Frequency 2422MHz

Environment: 22.6°C/65%RH /101.0kPa

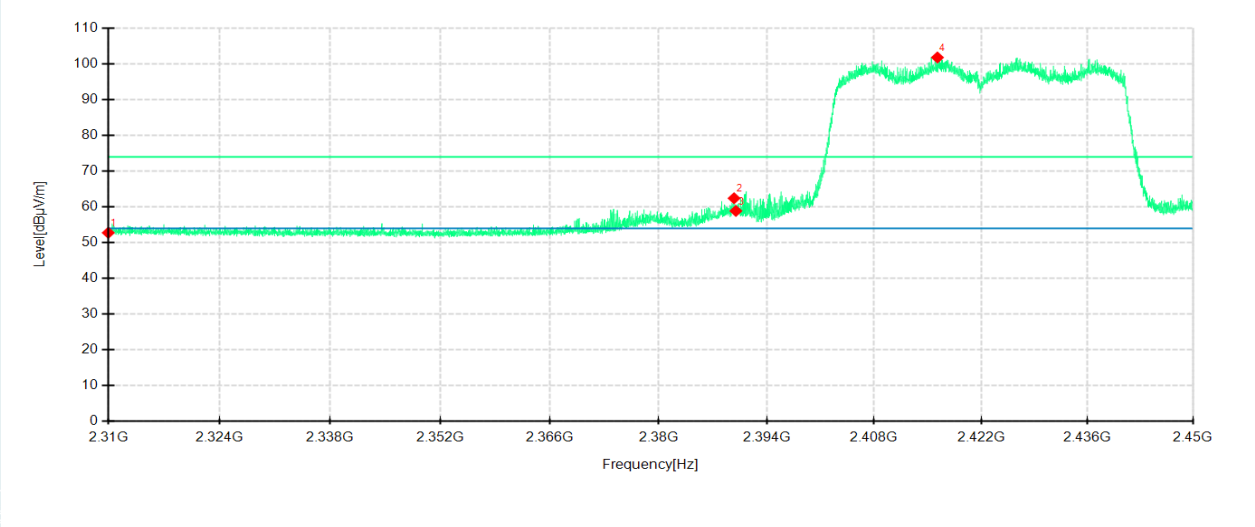
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

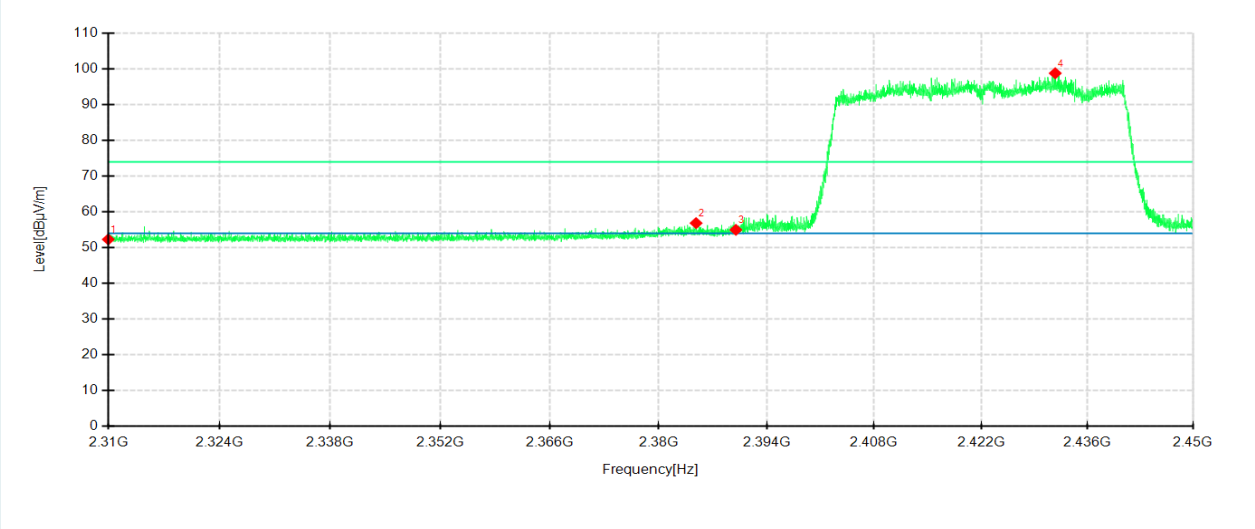
Date: 2023-05-29

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	Remark
1	2310	42.98	52.75	9.77	74.00	21.25	100	88	Horizontal	/
2	2389.765	53.30	62.41	9.11	74.00	11.59	200	15	Horizontal	/
3	2390	49.76	58.87	9.11	74.00	15.13	100	10	Horizontal	/
4	2416.2775	92.70	101.77	9.07	-	-	200	359	Horizontal	No limit
1	2310	43.23	52.30	9.07	74.00	21.70	200	121	Vertical	/
2	2384.8475	47.38	56.86	9.48	74.00	17.14	200	82	Vertical	/
3	2390	45.45	54.98	9.53	74.00	19.02	100	172	Vertical	/
4	2431.765	89.19	98.76	9.57	-	-	100	192	Vertical	No limit

802.11ax40 mode

Lowest Channel

Frequency 2422MHz

Environment: 22.6°C/65%RH /101.0kPa

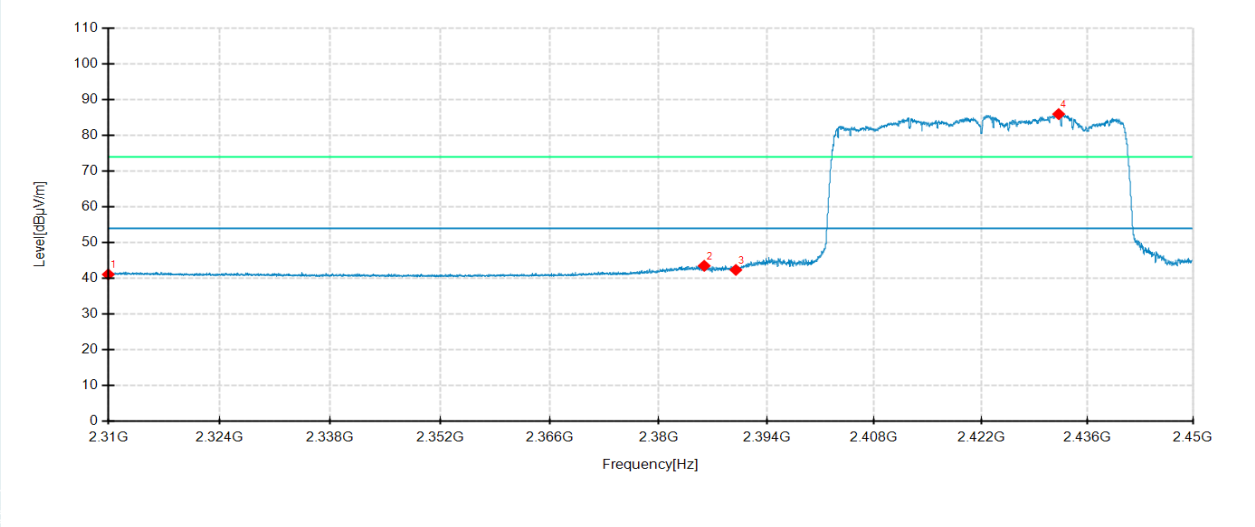
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

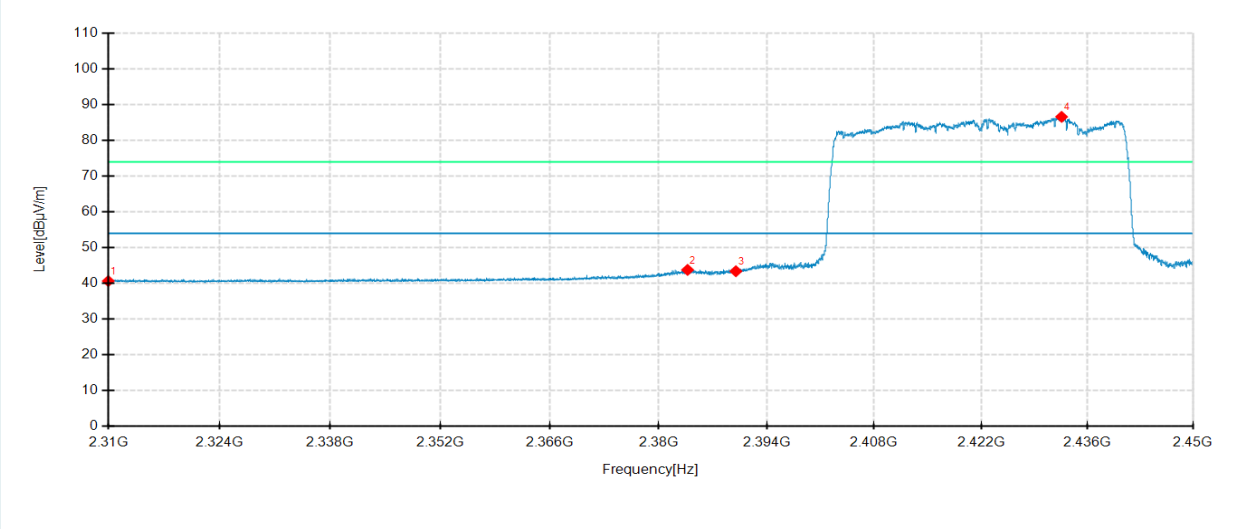
Date: 2023-05-29

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	Remark
1	2310	31.35	41.12	9.77	54.00	12.88	100	127	Horizontal	/
2	2385.8975	34.43	43.53	9.10	54.00	10.47	100	186	Horizontal	/
3	2390	33.26	42.37	9.11	54.00	11.63	100	18	Horizontal	/
4	2432.22	76.93	85.94	9.01	-	-	100	186	Horizontal	No limit
1	2310	31.60	40.67	9.07	54.00	13.33	100	300	Vertical	/
2	2383.745	34.33	43.79	9.46	54.00	10.21	100	341	Vertical	/
3	2390	33.87	43.40	9.53	54.00	10.60	100	173	Vertical	/
4	2432.605	76.99	86.57	9.58	-	-	100	192	Vertical	No limit

802.11ax40 mode

Highest Channel

Frequency 2452MHz

Environment: 22.6°C/65%RH /101.0kPa

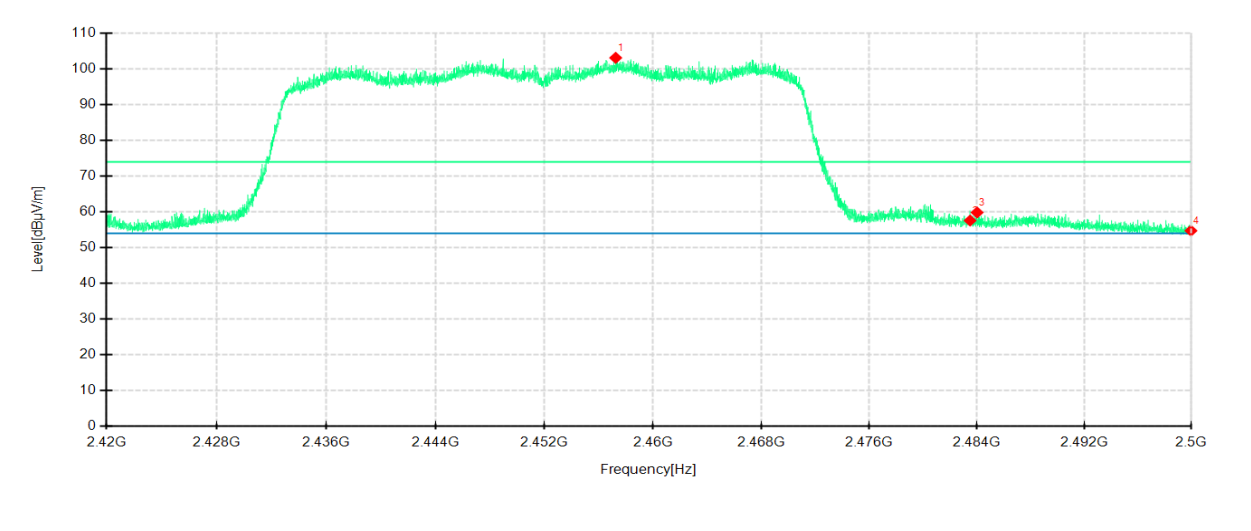
Tested By: Zhang Qiang

Detector mode: Peak

Voltage: DC 12V

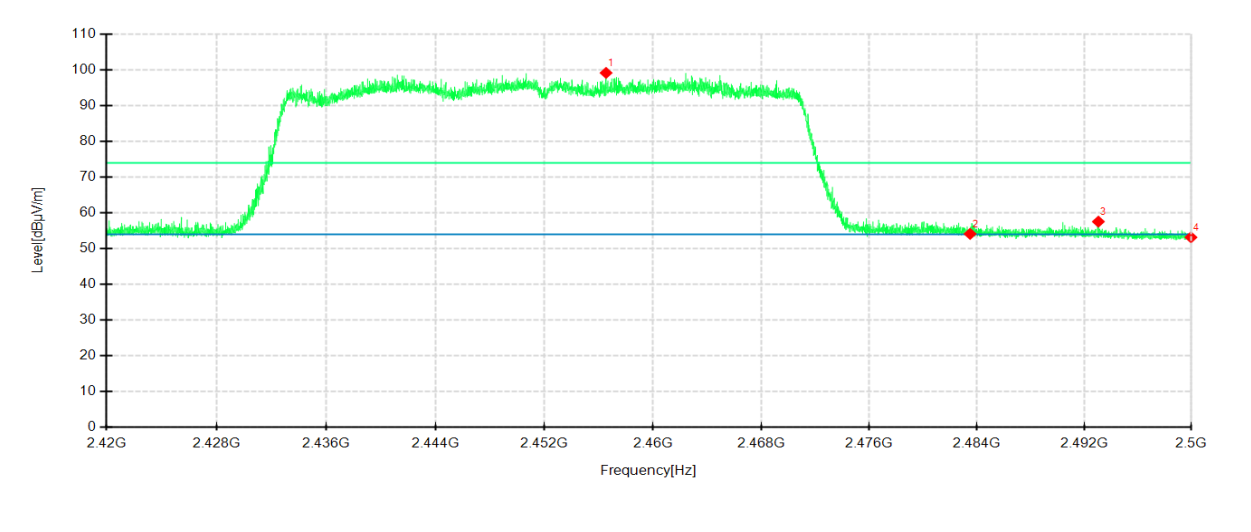
Date: 2023-05-29

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	Remark
1	2457.25	93.97	103.07	9.10	-	-	200	358	Horizontal	No limit
2	2483.5	47.90	57.58	9.68	74.00	16.42	100	246	Horizontal	/
3	2484.02	50.14	59.83	9.69	74.00	14.17	200	153	Horizontal	/
4	2500	44.69	54.74	10.05	74.00	19.26	100	306	Horizontal	/
1	2456.54	89.56	99.14	9.58	-	-	100	233	Vertical	No limit
2	2483.5	44.38	54.13	9.75	74.00	19.87	100	16	Vertical	/
3	2493.07	47.74	57.55	9.81	74.00	16.45	100	184	Vertical	/
4	2500	43.32	53.17	9.85	74.00	20.83	100	16	Vertical	/

802.11ax40 mode

Highest Channel

Frequency 2452MHz

Environment: 22.6°C/65%RH /101.0kPa

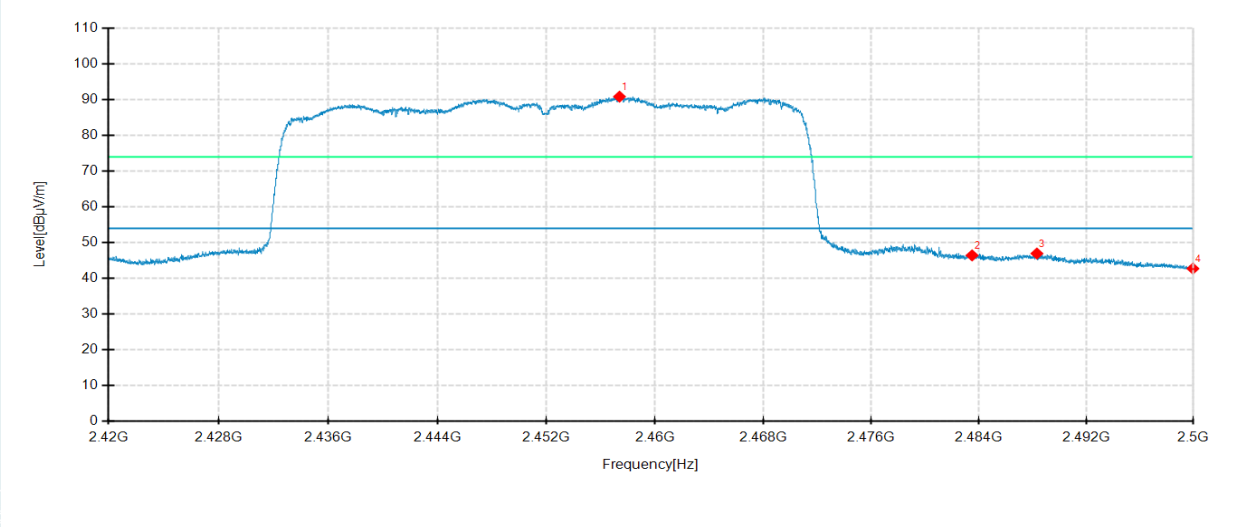
Tested By: Zhang Qiang

Detector mode: Average

Voltage: DC 12V

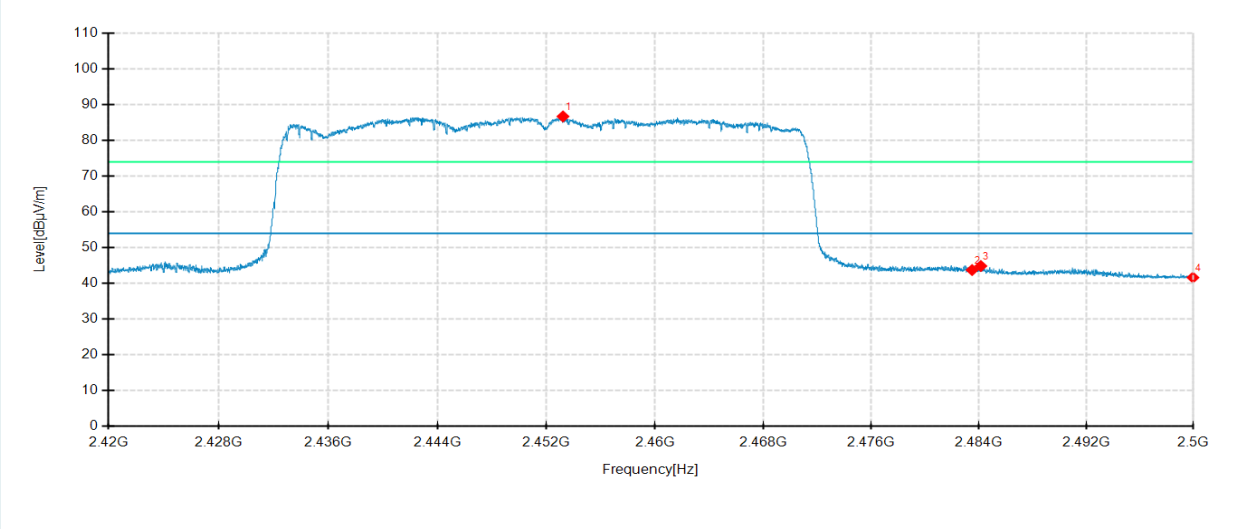
Date: 2023-05-29

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	Remark
1	2457.38	81.72	90.82	9.10	-	-	200	352	Horizontal	No limit
2	2483.5	36.76	46.44	9.68	54.00	7.56	100	158	Horizontal	/
3	2488.33	37.17	46.96	9.79	54.00	7.04	200	352	Horizontal	/
4	2500	32.69	42.74	10.05	54.00	11.26	200	134	Horizontal	/
1	2453.22	77.12	86.68	9.56	-	-	100	191	Vertical	No limit
2	2483.5	33.99	43.74	9.75	54.00	10.26	100	181	Vertical	/
3	2484.15	35.11	44.86	9.75	54.00	9.14	100	181	Vertical	/
4	2500	31.79	41.64	9.85	54.00	12.36	100	92	Vertical	/

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20230512370501-8-Test photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20230512370501-9-EUT photo.

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