

Mode: 3DH5
Middle Frequency (2441MHz)
Environment: 25.6°C/60%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-09-10
Test Voltage: DC 12V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19229.5250	49.08	33.07	23.53	-16.01	74.00	50.47	100	270	Horizontal
2	19470.9250	48.56	32.59	23.05	-15.97	74.00	50.95	200	32	Horizontal
3	20408.0500	47.76	32.41	22.87	-15.35	74.00	51.13	100	290	Horizontal
4	22019.2250	49.94	34.86	25.32	-15.08	74.00	48.68	100	270	Horizontal
5	23187.5500	46.30	32.27	22.73	-14.03	74.00	51.27	200	53	Horizontal
6	24744.3250	45.07	31.58	22.04	-13.49	74.00	51.96	100	200	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18558.0250	49.50	33.30	23.76	-16.20	74.00	50.24	100	20	Vertical
2	19445.0000	48.59	33.11	23.57	-15.48	74.00	50.43	100	321	Vertical
3	20368.5250	47.97	32.89	23.35	-15.08	74.00	50.65	100	358	Vertical
4	21357.5000	48.52	33.99	24.45	-14.53	74.00	49.55	200	160	Vertical
5	22555.5750	47.26	33.10	23.56	-14.16	74.00	50.44	100	20	Vertical
6	24531.8250	45.81	32.80	23.26	-13.01	74.00	50.74	200	220	Vertical

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Mode: 3DH5
 Highest Frequency (2480MHz)
 Environment: 25.6°C/60%RH/101.0kPa
 Test Engineer: Qin Tingting

Date: 2024-09-10
 Test Voltage: DC 12V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18310.2500	49.31	32.57	23.03	-16.74	74.00	50.97	100	19	Horizontal
2	19240.1500	50.46	34.45	24.91	-16.01	74.00	49.09	200	200	Horizontal
3	21301.8250	48.83	33.88	24.34	-14.95	74.00	49.66	100	140	Horizontal
4	22012.0000	48.47	33.40	23.86	-15.07	74.00	50.14	200	140	Horizontal
5	23318.0250	47.27	33.26	23.72	-14.01	74.00	50.28	100	358	Horizontal
6	24790.6500	45.54	32.03	22.49	-13.51	74.00	51.51	100	240	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18919.2750	48.94	33.08	23.54	-15.86	74.00	50.46	100	281	Vertical
2	20108.8500	48.43	33.35	23.81	-15.08	74.00	50.19	100	339	Vertical
3	22056.2000	48.34	33.82	24.28	-14.52	74.00	49.72	200	301	Vertical
4	22743.0000	47.27	33.45	23.91	-13.82	74.00	50.09	100	160	Vertical
5	24767.7000	45.25	32.35	22.81	-12.90	74.00	51.19	100	339	Vertical
6	25819.5750	44.95	31.72	22.18	-13.23	74.00	51.82	100	339	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3)

14. RESTRICTED BANDS OF OPERATION

14.1 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)).

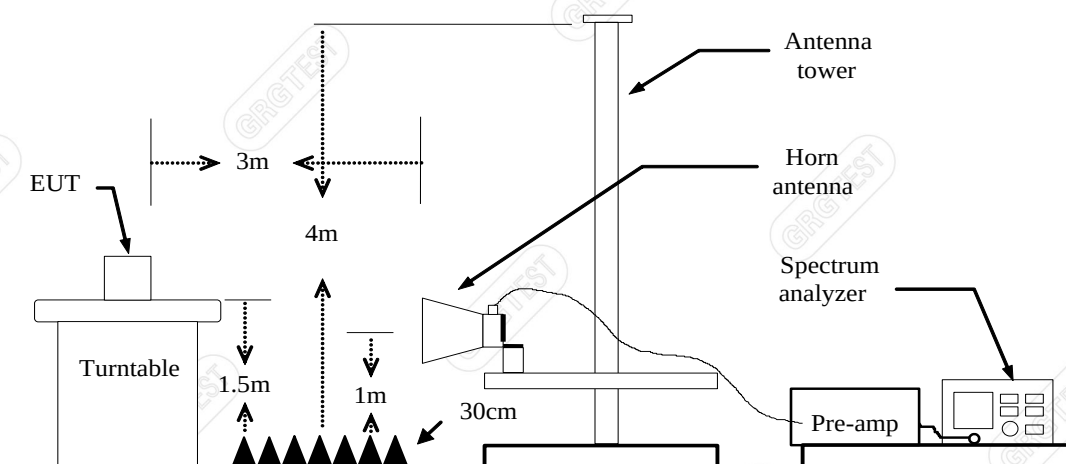
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	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($\mu\text{V}/\text{m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V}/\text{m}$)@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

14.2 TEST PROCEDURES

- 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. Where T is defined in section 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

14.3 TEST SETUP



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14.4 TEST RESULTS

DH5

Lowest Channel

Frequency 2402MHz

Environment: 25.6°C/60%RH/101.0kPa

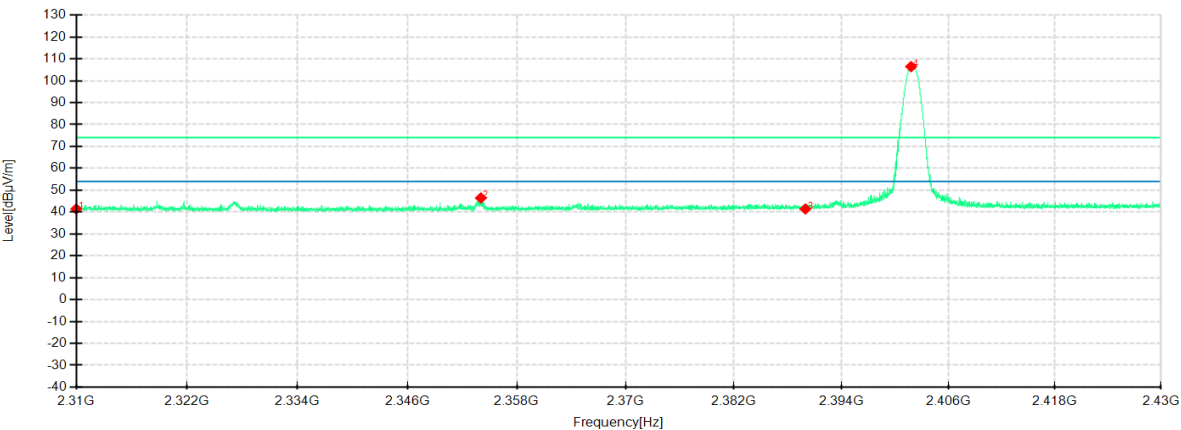
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

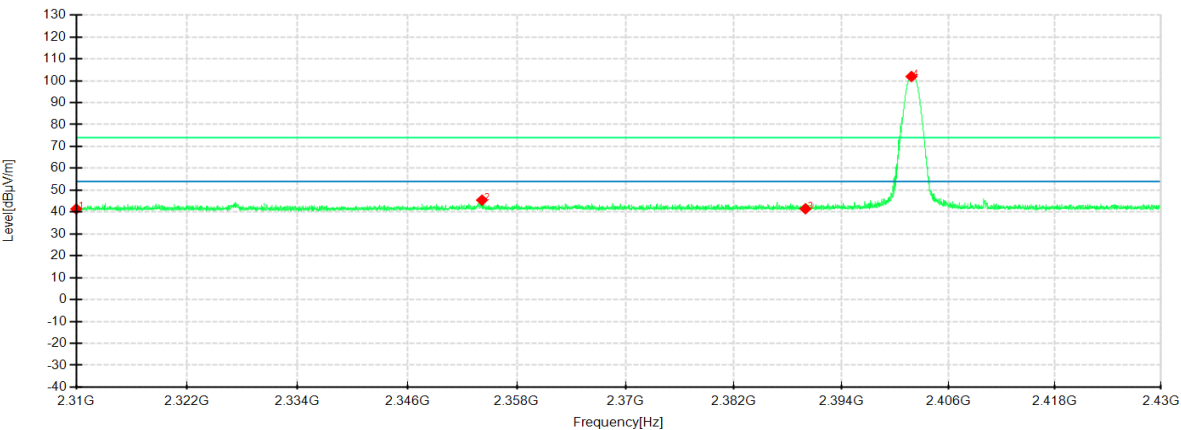
Date: 2024-09-10

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	2310.0000	46.90	41.42	-5.48	74.00	32.58	200	28	Horizontal	/
2	2354.0550	52.25	46.43	-5.82	74.00	27.57	200	56	Horizontal	/
3	2390.0000	46.82	41.43	-5.39	74.00	32.57	200	28	Horizontal	/
4	2401.8150	111.69	106.45	-5.24	74.00	-32.45	100	63	Horizontal	No limit
1	2310.0000	46.72	41.40	-5.32	74.00	32.60	100	342	Vertical	/
2	2354.1750	50.92	45.45	-5.47	74.00	28.55	100	269	Vertical	/
3	2390.0000	46.98	41.51	-5.47	74.00	32.49	100	107	Vertical	/
4	2401.8600	107.39	101.93	-5.46	74.00	-27.93	100	92	Vertical	No limit

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Lowest Channel

Frequency 2402MHz

Environment: 25.6°C/60%RH/101.0kPa

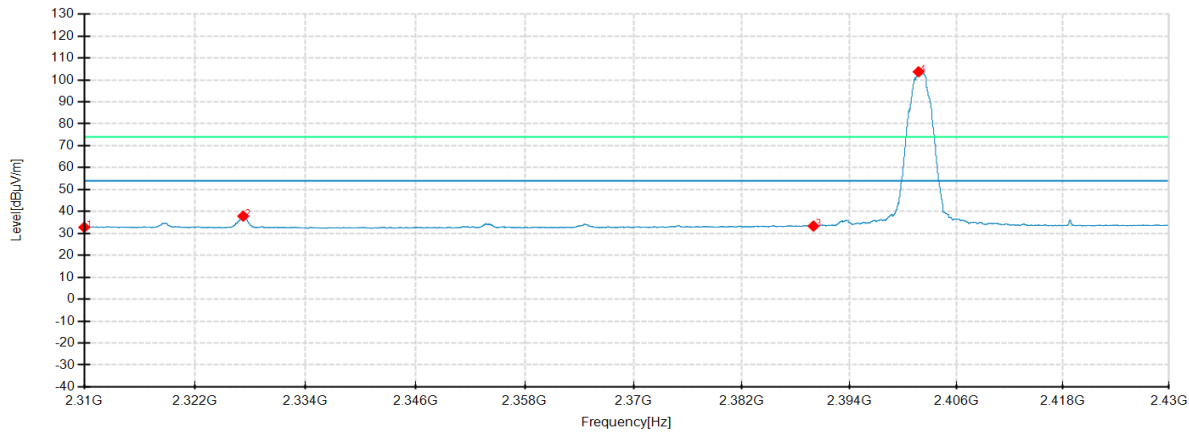
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

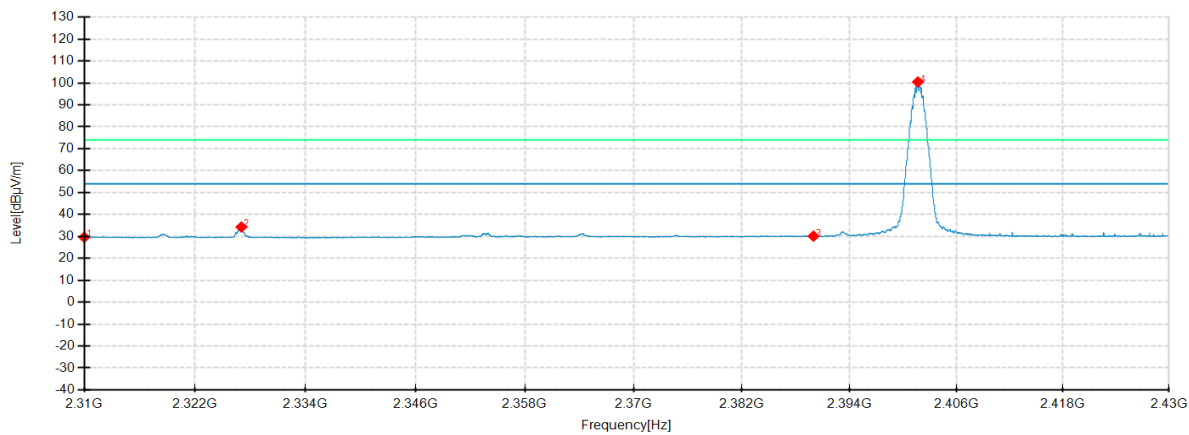
Date: 2024-09-10

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	2310.0000	38.26	32.78	-5.48	54.00	21.22	200	245	Horizontal	/
2	2327.2050	43.54	37.89	-5.65	54.00	16.11	100	230	Horizontal	/
3	2390.0000	38.75	33.36	-5.39	54.00	20.64	100	230	Horizontal	/
4	2401.7550	108.95	103.70	-5.25	54.00	-49.70	100	256	Horizontal	No limit
1	2310.0000	34.94	29.62	-5.32	54.00	24.38	100	110	Vertical	/
2	2327.0100	39.67	34.29	-5.38	54.00	19.71	100	110	Vertical	/
3	2390.0000	35.59	30.12	-5.47	54.00	23.88	200	280	Vertical	/
4	2401.6800	105.91	100.44	-5.47	54.00	-46.44	100	244	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 25.6℃/60%RH/101.0kPa

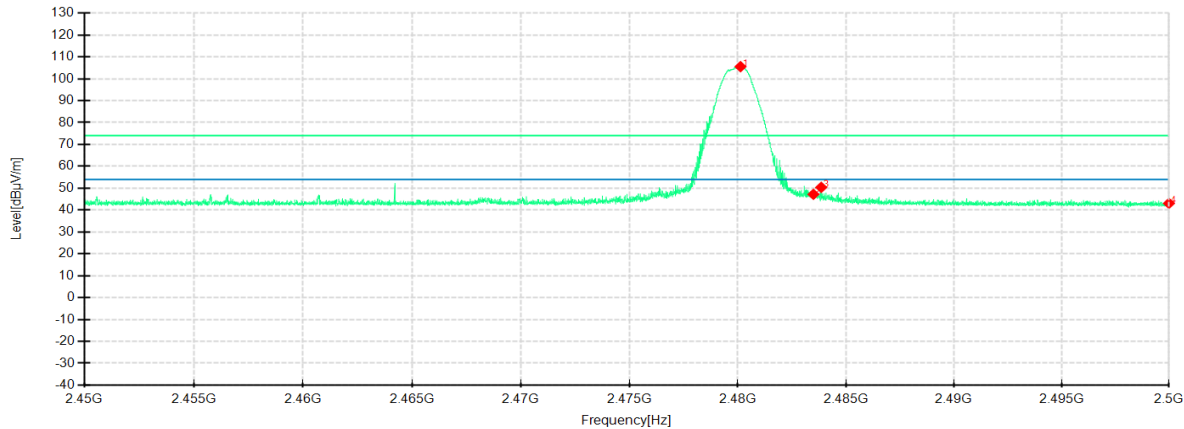
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

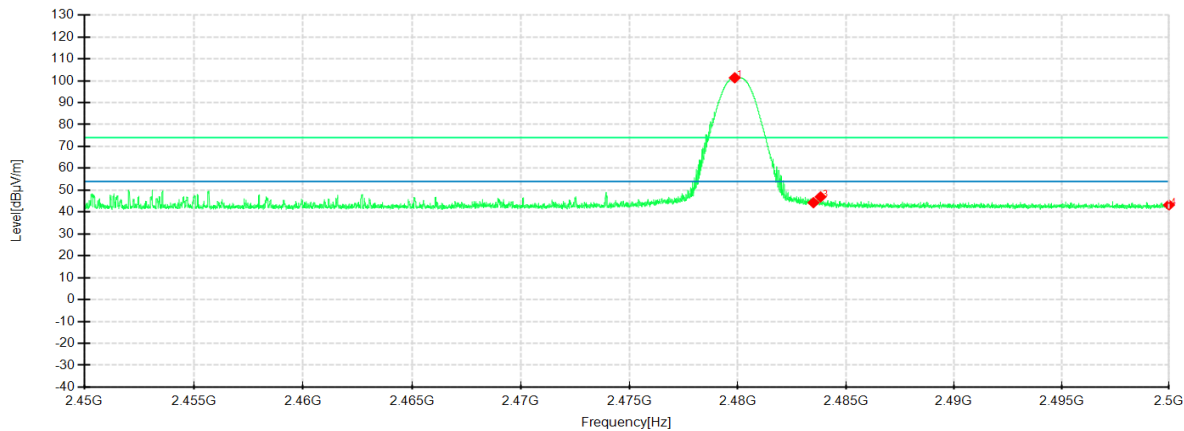
Date: 2024-09-10

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	2480.1313	110.34	105.53	-4.81	74.00	-31.53	100	72	Horizontal	No limit
2	2483.5000	52.03	47.20	-4.83	74.00	26.80	100	56	Horizontal	/
3	2483.8625	55.22	50.38	-4.84	74.00	23.62	100	72	Horizontal	/
4	2500.0000	48.04	43.05	-4.99	74.00	30.95	100	175	Horizontal	/
1	2479.8625	106.44	101.35	-5.09	74.00	-27.35	200	277	Vertical	No limit
2	2483.5000	49.36	44.29	-5.07	74.00	29.71	200	294	Vertical	/
3	2483.8313	52.01	46.95	-5.06	74.00	27.05	100	109	Vertical	/
4	2500.0000	48.22	43.23	-4.99	74.00	30.77	100	229	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 25.6°C/60%RH/101.0kPa

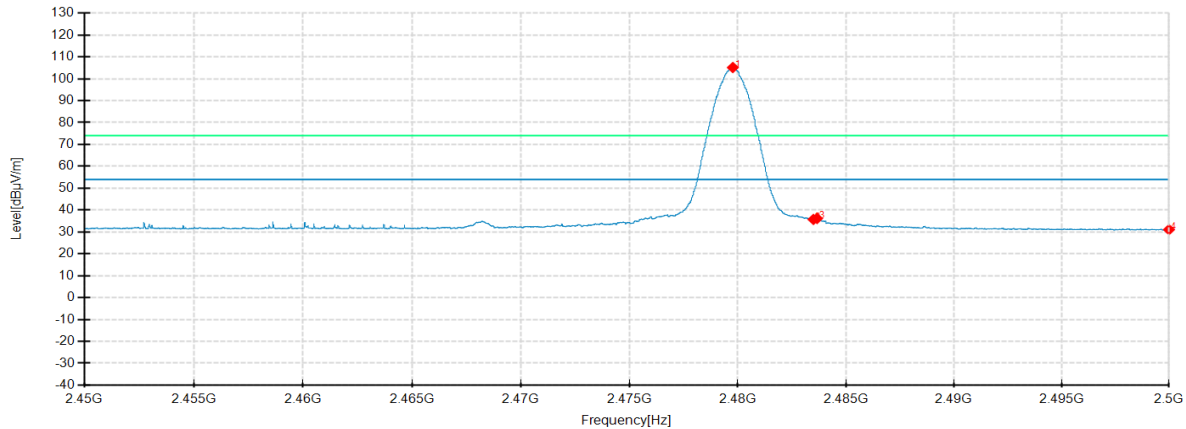
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

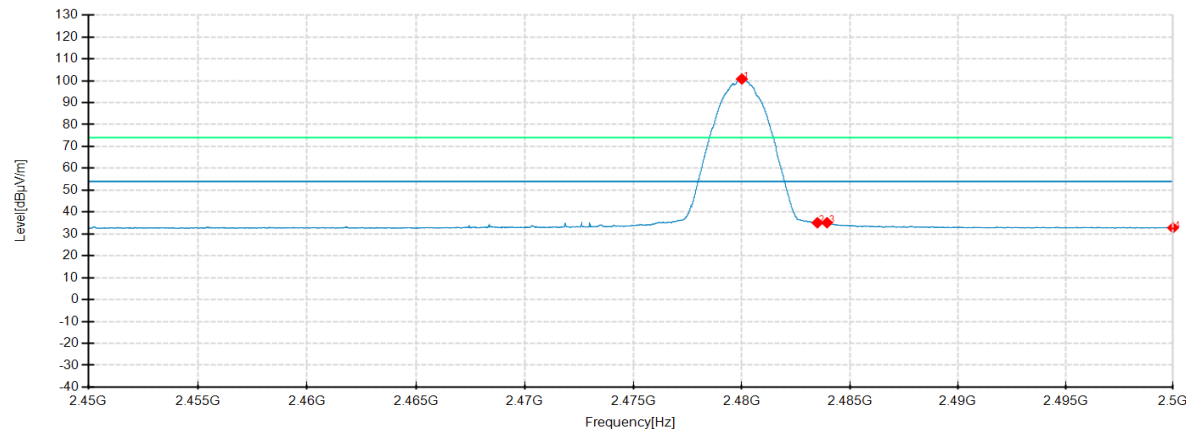
Date: 2024-09-10

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	2479.7750	109.94	105.13	-4.81	54.00	-51.13	100	64	Horizontal	No limit
2	2483.5000	40.56	35.73	-4.83	54.00	18.27	100	64	Horizontal	/
3	2483.6688	41.00	36.16	-4.84	54.00	17.84	100	64	Horizontal	/
4	2500.0000	36.04	31.05	-4.99	54.00	22.95	200	82	Horizontal	/
1	2480.0063	105.88	100.79	-5.09	54.00	-46.79	200	104	Vertical	No limit
2	2483.5000	40.17	35.10	-5.07	54.00	18.90	100	58	Vertical	/
3	2483.9438	40.18	35.12	-5.06	54.00	18.88	200	104	Vertical	/
4	2500.0000	37.77	32.78	-4.99	54.00	21.22	100	96	Vertical	/

2DH5

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/61%RH/101.0kPa

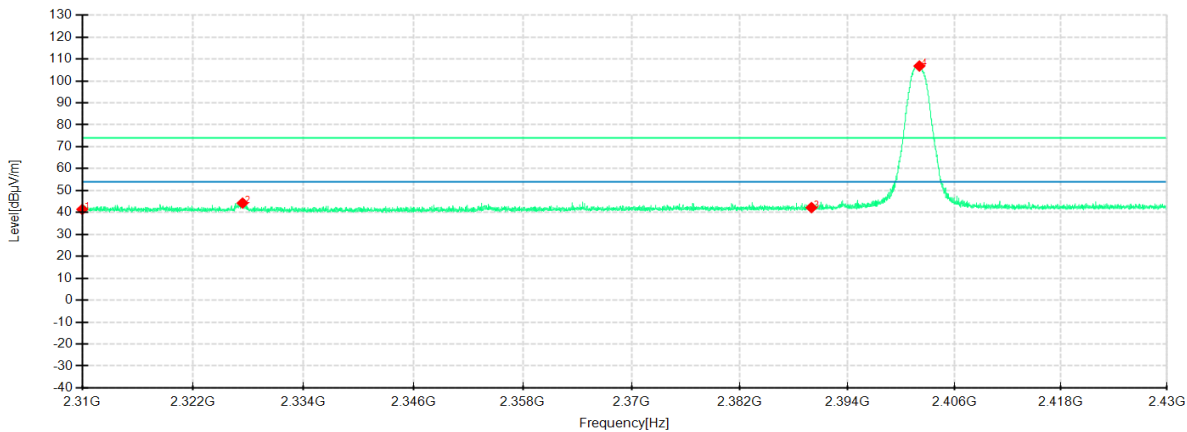
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

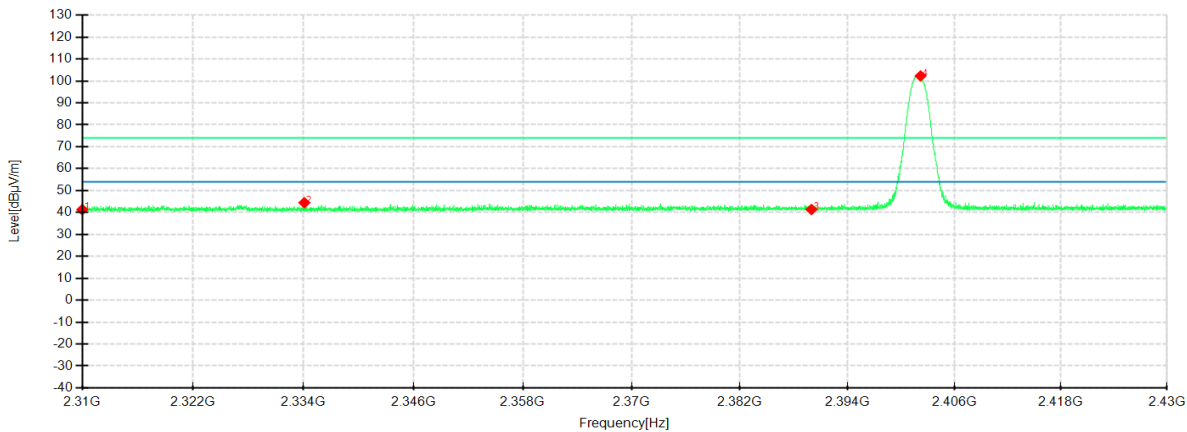
Date: 2024-09-02

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	2310.0000	46.90	41.42	-5.48	74.00	32.58	200	283	Horizontal	/
2	2327.3550	49.96	44.31	-5.65	74.00	29.69	100	80	Horizontal	/
3	2390.0000	47.61	42.22	-5.39	74.00	31.78	100	272	Horizontal	/
4	2402.0700	112.04	106.80	-5.24	74.00	-32.80	100	302	Horizontal	No limit
1	2310.0000	46.61	41.29	-5.32	74.00	32.71	100	102	Vertical	/
2	2334.0750	49.86	44.45	-5.41	74.00	29.55	100	205	Vertical	/
3	2390.0000	46.84	41.37	-5.47	74.00	32.63	200	333	Vertical	/
4	2402.2050	107.74	102.28	-5.46	74.00	-28.28	100	218	Vertical	No limit

Lowest Channel

Frequency 2402MHz

Environment: 26.3°C/61%RH/101.0kPa

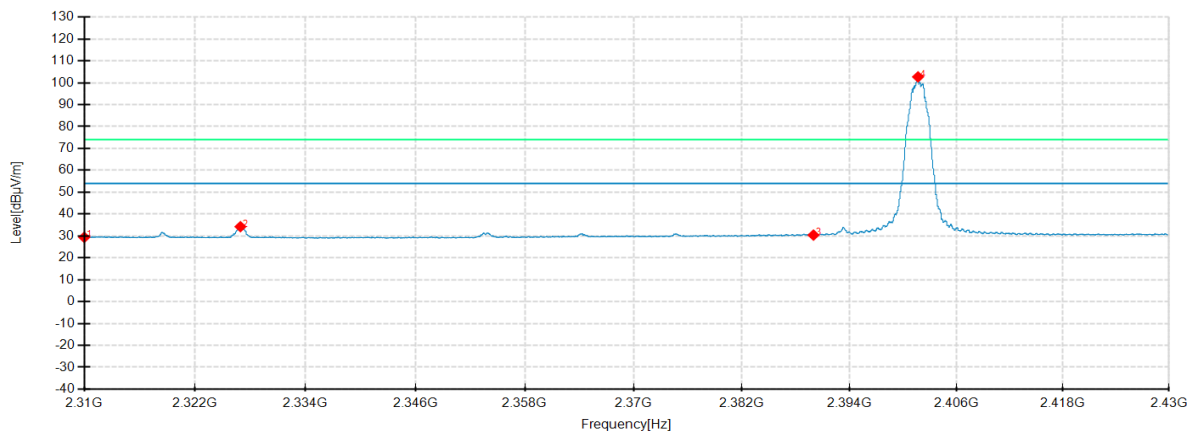
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

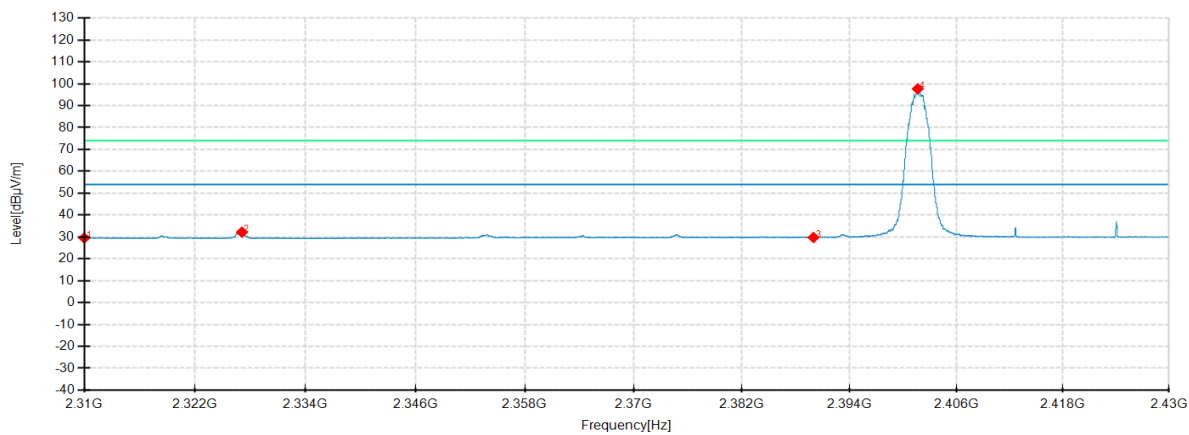
Date: 2024-09-02

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	2310.0000	34.84	29.36	-5.48	54.00	24.64	100	76	Horizontal	/
2	2326.9050	39.88	34.24	-5.64	54.00	19.76	100	289	Horizontal	/
3	2390.0000	35.79	30.40	-5.39	54.00	23.60	200	297	Horizontal	/
4	2401.6950	107.94	102.69	-5.25	54.00	-48.69	100	304	Horizontal	No limit
1	2310.0000	34.85	29.53	-5.32	54.00	24.47	200	260	Vertical	/
2	2327.0700	37.57	32.19	-5.38	54.00	21.81	100	250	Vertical	/
3	2390.0000	35.22	29.75	-5.47	54.00	24.25	100	267	Vertical	/
4	2401.6650	103.14	97.67	-5.47	54.00	-43.67	100	220	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/61%RH/101.0kPa

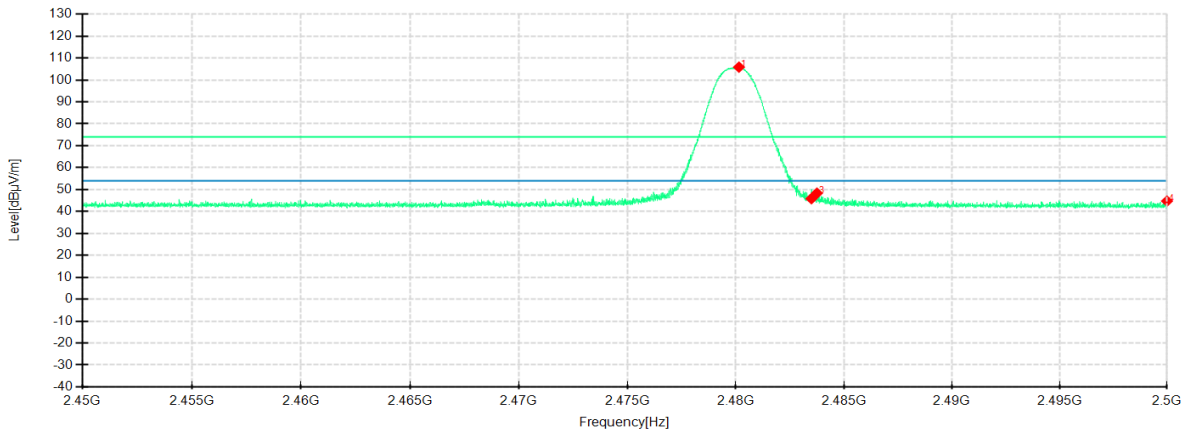
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

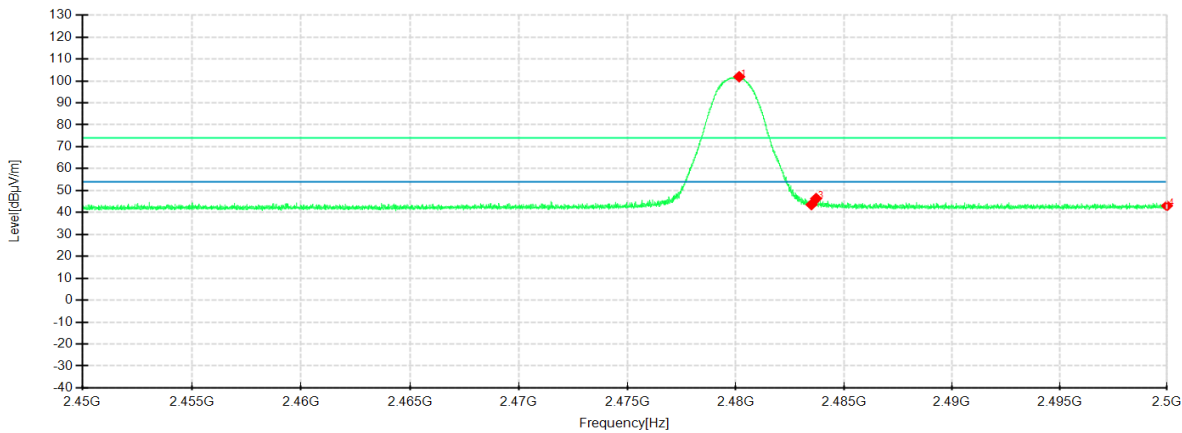
Date: 2024-09-02

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	2480.1500	110.65	105.84	-4.81	74.00	-31.84	100	306	Horizontal	No limit
2	2483.5000	50.67	45.84	-4.83	74.00	28.16	100	306	Horizontal	/
3	2483.7563	53.20	48.36	-4.84	74.00	25.64	200	313	Horizontal	/
4	2500.0000	49.73	44.74	-4.99	74.00	29.26	200	163	Horizontal	/
1	2480.1625	107.00	101.91	-5.09	74.00	-27.91	100	102	Vertical	No limit
2	2483.5000	48.65	43.58	-5.07	74.00	30.42	200	51	Vertical	/
3	2483.7188	51.44	46.37	-5.07	74.00	27.63	200	288	Vertical	/
4	2500.0000	48.03	43.04	-4.99	74.00	30.96	100	236	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 25.6°C/60%RH/101.0kPa

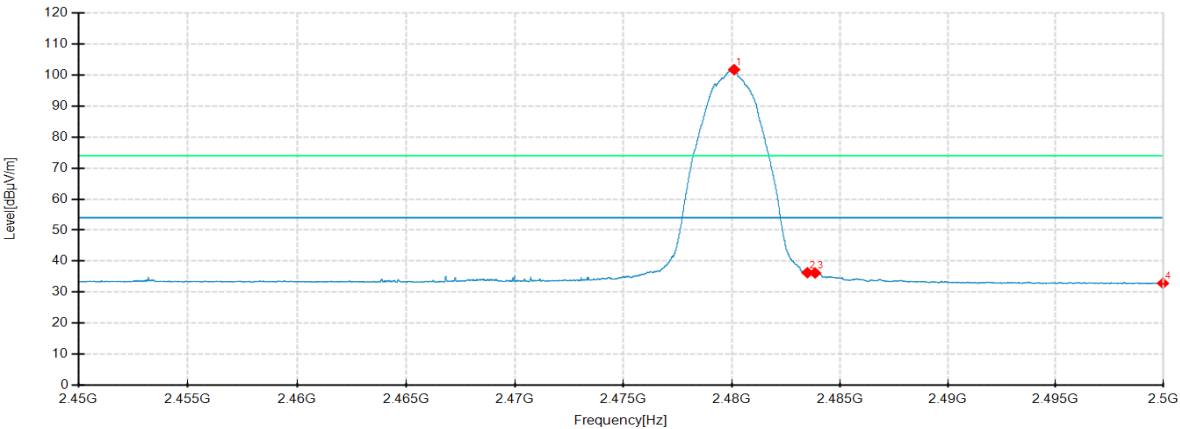
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

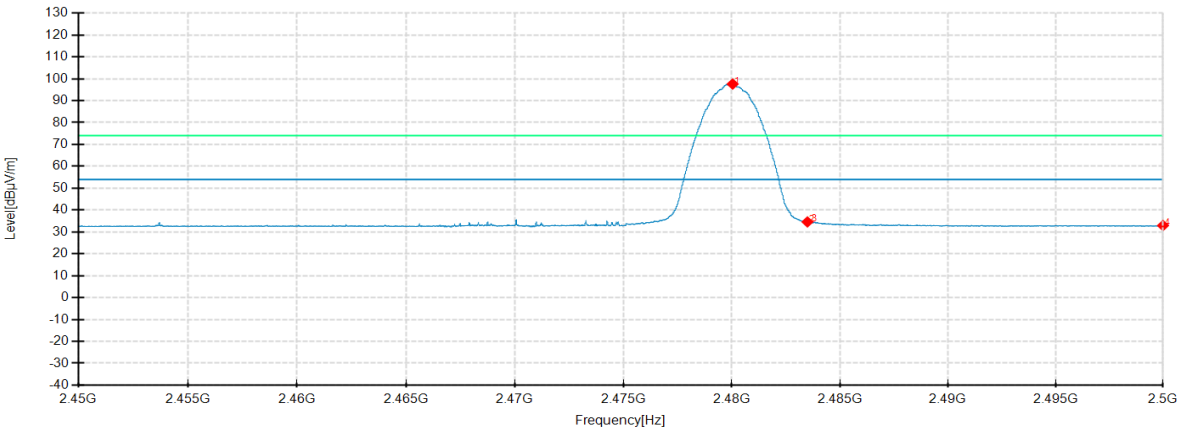
Date: 2024-09-10

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	2480.1125	106.58	101.77	-4.81	54.00	-47.77	200	248	Horizontal	No limit
2	2483.5000	41.10	36.27	-4.83	54.00	17.73	200	222	Horizontal	/
3	2483.8563	41.01	36.17	-4.84	54.00	17.83	200	235	Horizontal	/
4	2500.0000	37.83	32.84	-4.99	54.00	21.16	100	114	Horizontal	/
1	2480.0438	102.67	97.58	-5.09	54.00	-43.58	100	56	Vertical	No limit
2	2483.5000	39.66	34.59	-5.07	54.00	19.41	200	99	Vertical	/
3	2483.5813	39.75	34.68	-5.07	54.00	19.32	200	99	Vertical	/
4	2500.0000	37.91	32.92	-4.99	54.00	21.08	100	322	Vertical	/

3DH5

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/61%RH/101.0kPa

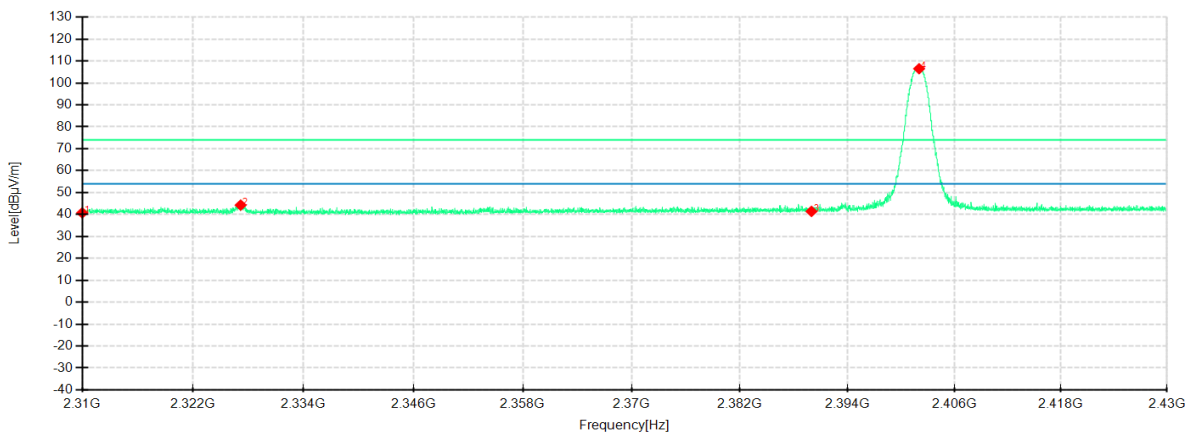
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

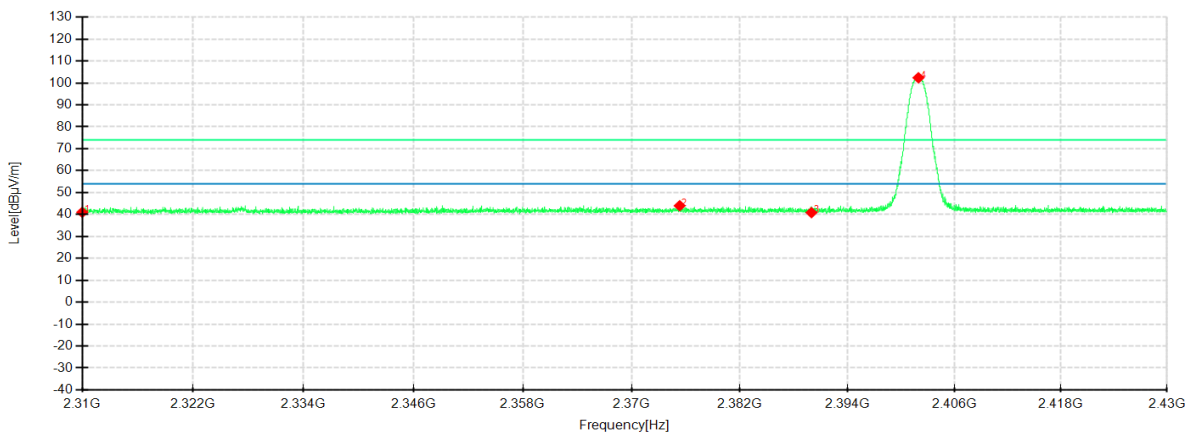
Date: 2024-09-02

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	2310.0000	46.24	40.76	-5.48	74.00	33.24	200	42	Horizontal	/
2	2327.1450	49.93	44.28	-5.65	74.00	29.72	100	272	Horizontal	/
3	2390.0000	46.79	41.40	-5.39	74.00	32.60	100	111	Horizontal	/
4	2402.0400	111.73	106.49	-5.24	74.00	-32.49	100	318	Horizontal	No limit
1	2310.0000	46.32	41.00	-5.32	74.00	33.00	100	158	Vertical	/
2	2375.3400	49.46	43.99	-5.47	74.00	30.01	100	338	Vertical	/
3	2390.0000	46.32	40.85	-5.47	74.00	33.15	100	131	Vertical	/
4	2401.9650	107.82	102.36	-5.46	74.00	-28.36	100	219	Vertical	No limit

Lowest Channel

Frequency 2402MHz

Environment: 26.3°C/61%RH/101.0kPa

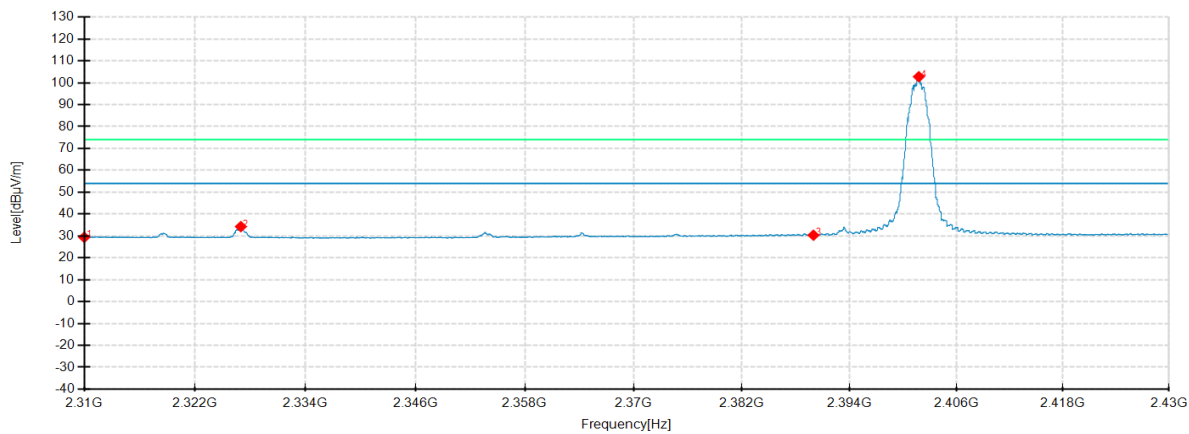
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

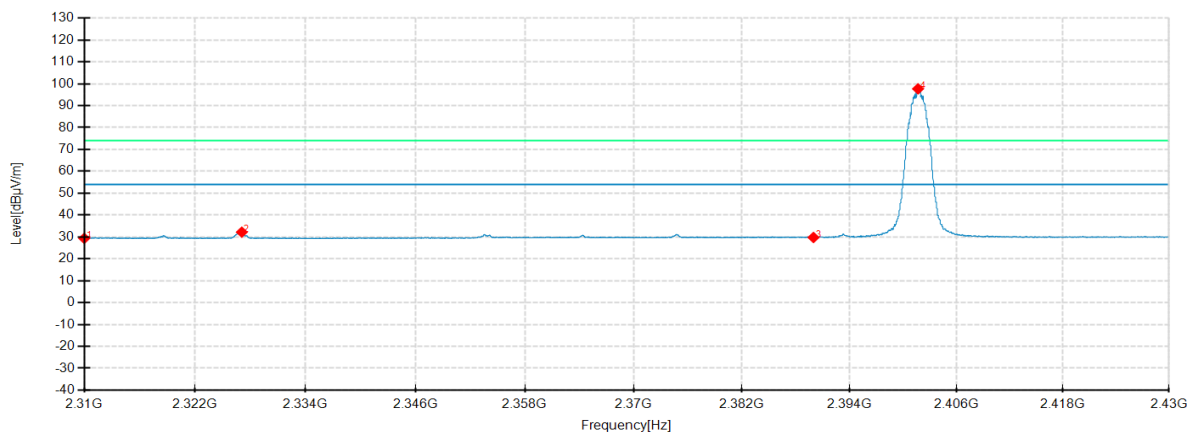
Date: 2024-09-02

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	2310.0000	34.86	29.38	-5.48	54.00	24.62	200	280	Horizontal	/
2	2326.9500	39.90	34.26	-5.64	54.00	19.74	100	290	Horizontal	/
3	2390.0000	35.72	30.33	-5.39	54.00	23.67	200	41	Horizontal	/
4	2401.7850	107.99	102.74	-5.25	54.00	-48.74	100	306	Horizontal	No limit
1	2310.0000	34.67	29.35	-5.32	54.00	24.65	200	20	Vertical	/
2	2327.0550	37.57	32.19	-5.38	54.00	21.81	100	253	Vertical	/
3	2390.0000	35.23	29.76	-5.47	54.00	24.24	200	110	Vertical	/
4	2401.6950	103.14	97.67	-5.47	54.00	-43.67	100	223	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/61%RH/101.0kPa

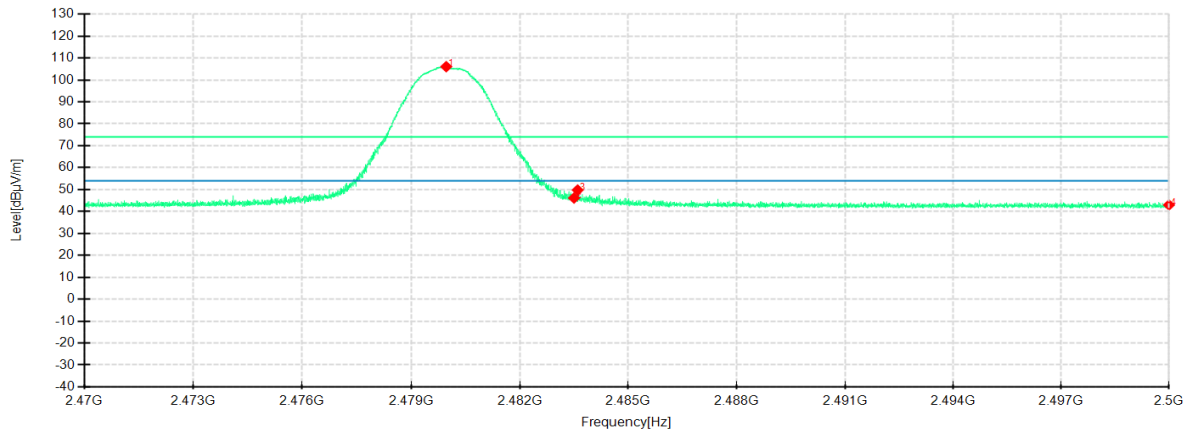
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 12V

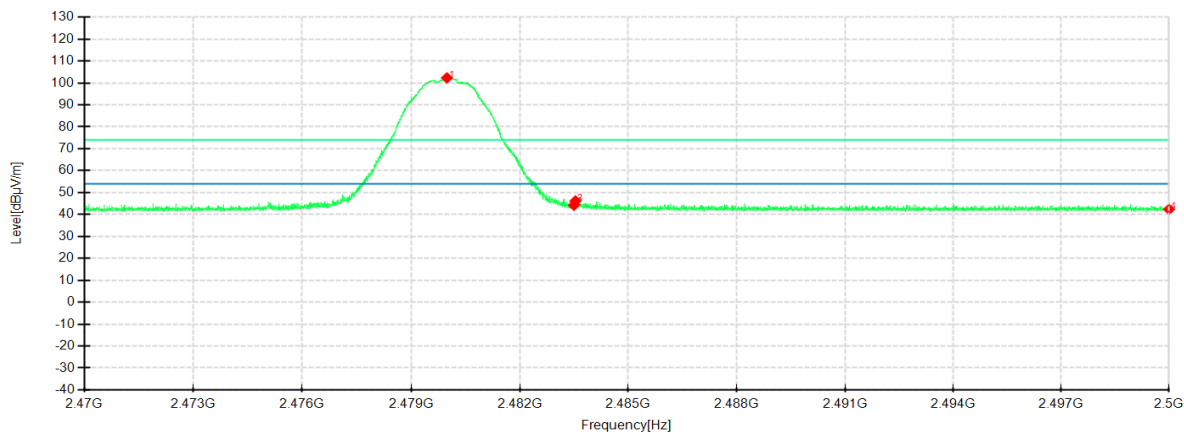
Date: 2024-09-02

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	2479.9713	110.87	106.06	-4.81	74.00	-32.06	100	301	Horizontal	No limit
2	2483.5000	50.97	46.14	-4.83	74.00	27.86	100	301	Horizontal	/
3	2483.6013	54.64	49.80	-4.84	74.00	24.20	100	301	Horizontal	/
4	2500.0000	47.96	42.97	-4.99	74.00	31.03	100	317	Horizontal	/
1	2479.9900	107.39	102.30	-5.09	74.00	-28.30	100	117	Vertical	No limit
2	2483.5000	49.28	44.21	-5.07	74.00	29.79	200	314	Vertical	/
3	2483.5413	51.24	46.17	-5.07	74.00	27.83	100	117	Vertical	/
4	2500.0000	47.33	42.34	-4.99	74.00	31.66	100	310	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/61%RH/101.0kPa

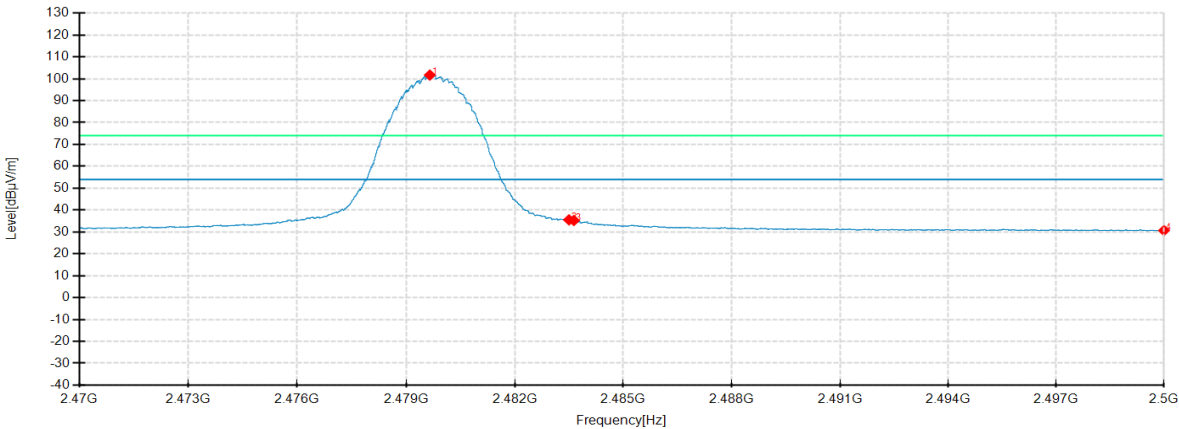
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 12V

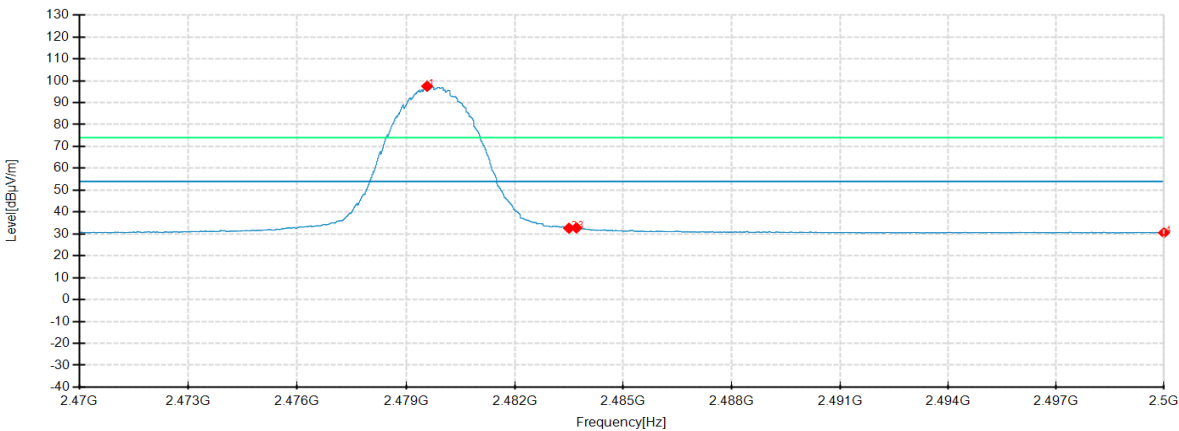
Date: 2024-09-02

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dB μ V/m	Level dB μ V/m	Factor dB	Limit dB μ V/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.6563	106.50	101.69	-4.81	54.00	-47.69	100	309	Horizontal	No limit
2	2483.5000	40.36	35.53	-4.83	54.00	18.47	100	309	Horizontal	/
3	2483.6350	40.10	35.26	-4.84	54.00	18.74	100	309	Horizontal	/
4	2500.0000	35.64	30.65	-4.99	54.00	23.35	100	65	Horizontal	/
1	2479.5813	102.60	97.51	-5.09	54.00	-43.51	100	113	Vertical	No limit
2	2483.5000	37.68	32.61	-5.07	54.00	21.39	100	97	Vertical	/
3	2483.7063	37.83	32.76	-5.07	54.00	21.24	200	293	Vertical	/
4	2500.0000	35.52	30.53	-4.99	54.00	23.47	100	97	Vertical	/

Remark:

- 1) Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

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APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E202407050641-Test photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202407050641-EUT photo.

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