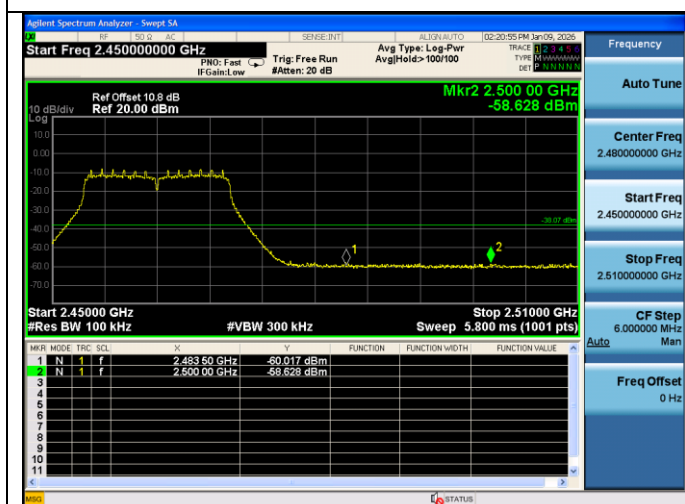
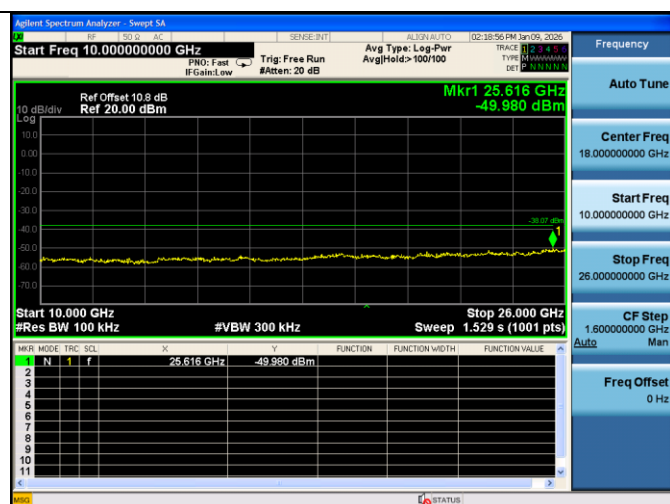
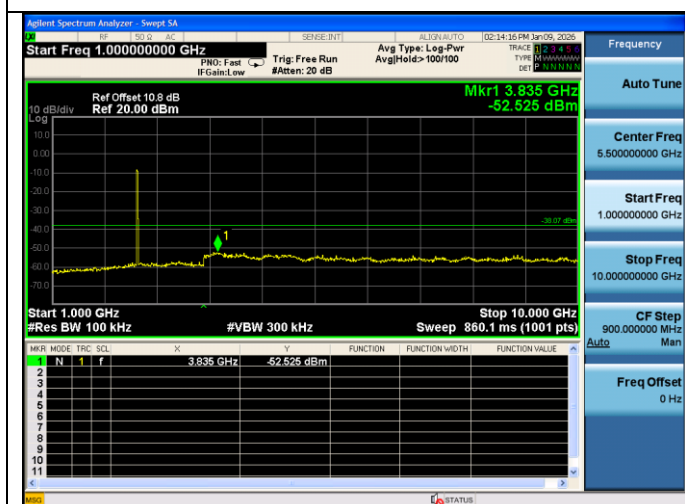
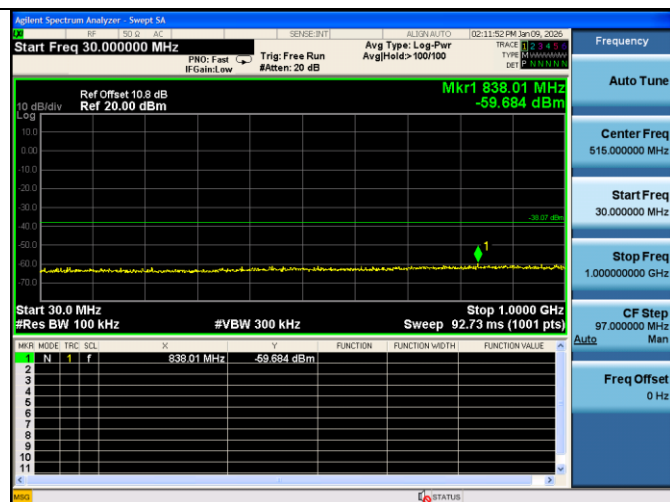
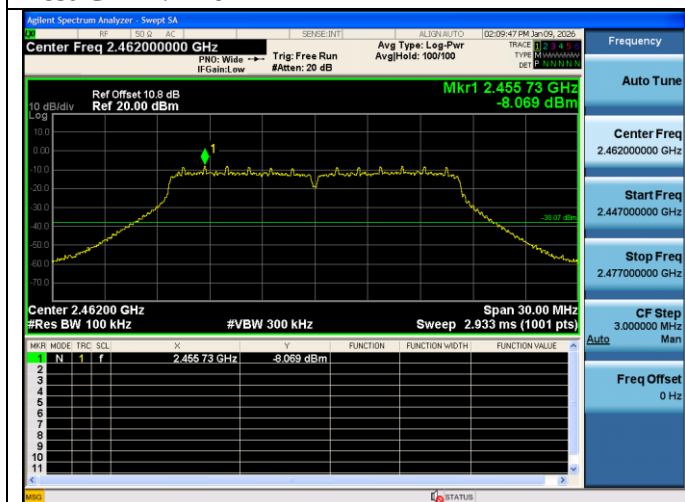
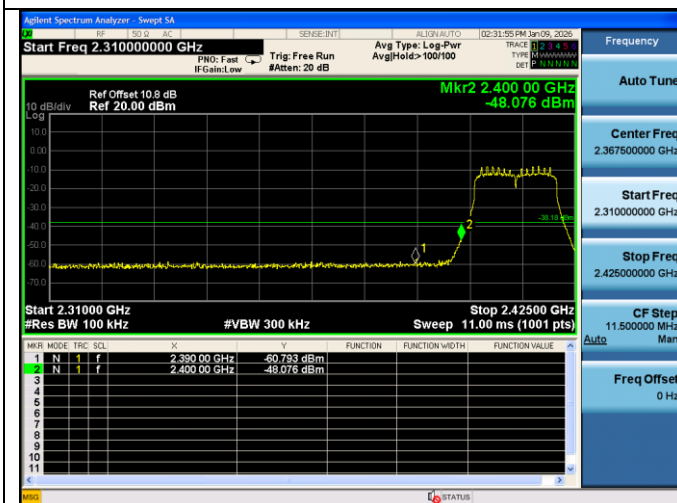
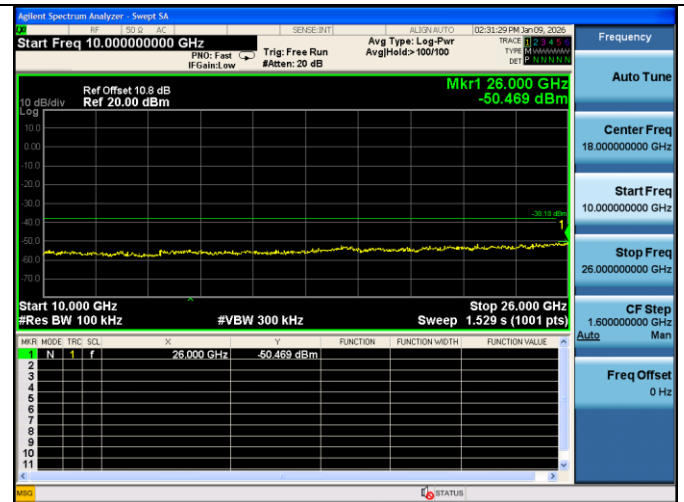
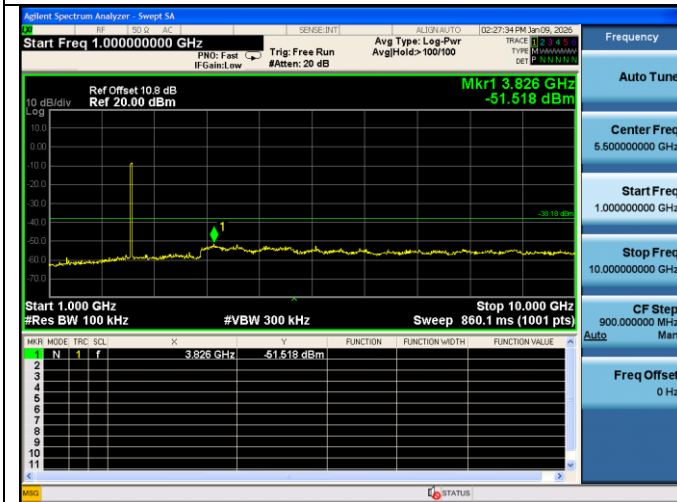
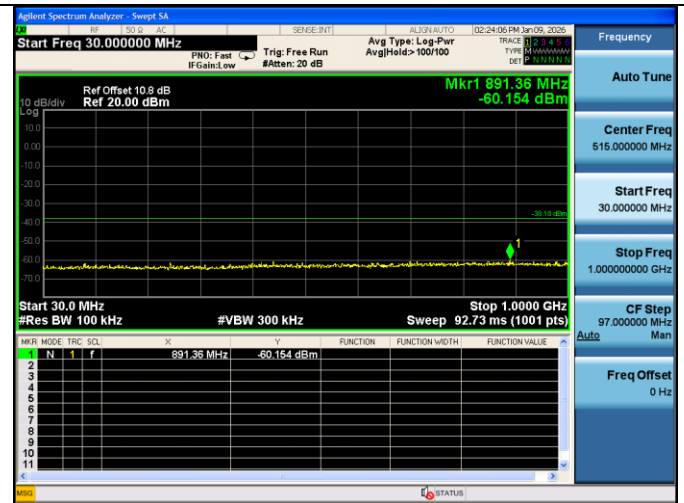
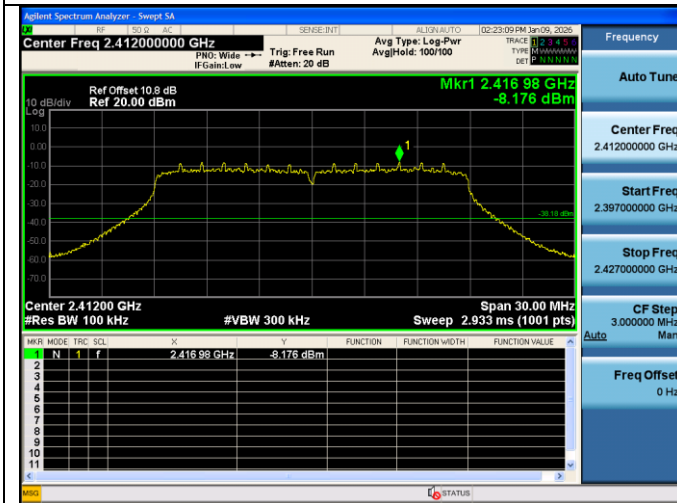


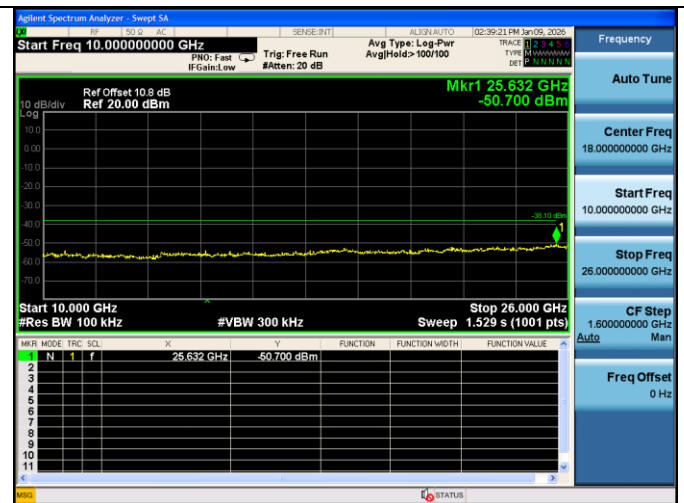
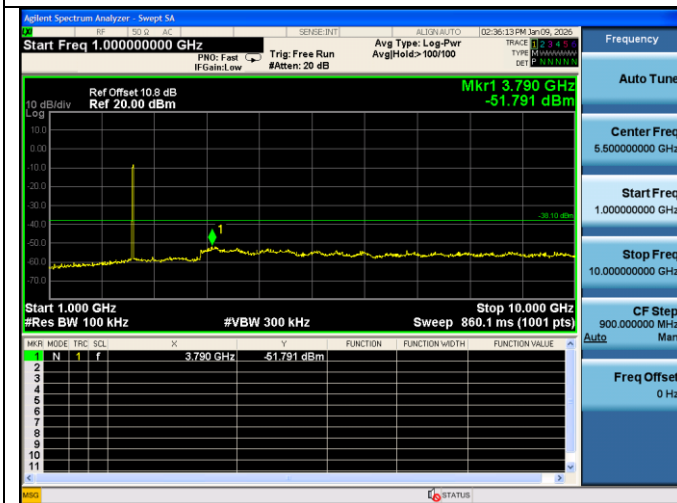
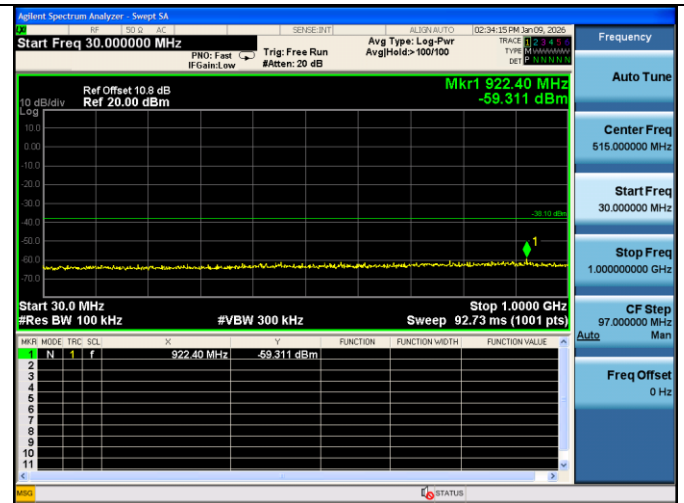
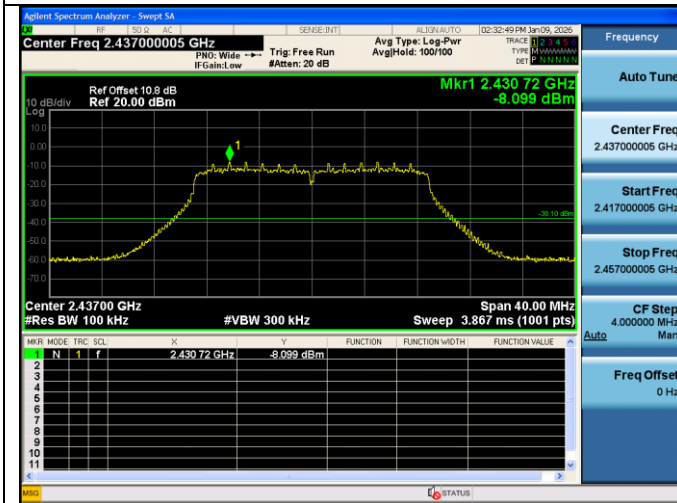
Test CH11: 2462MHz



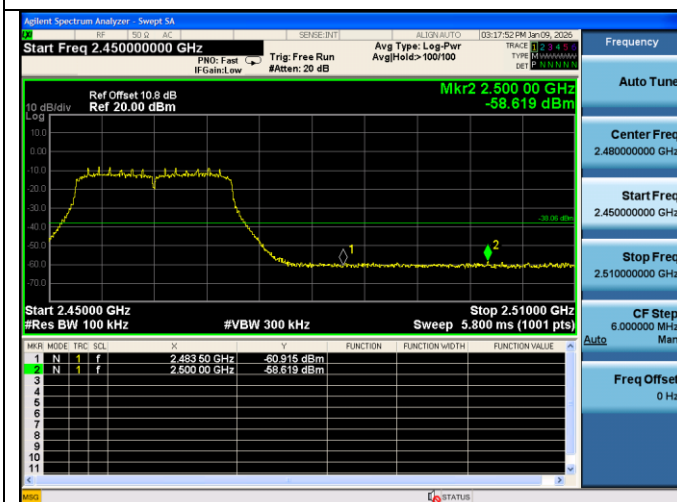
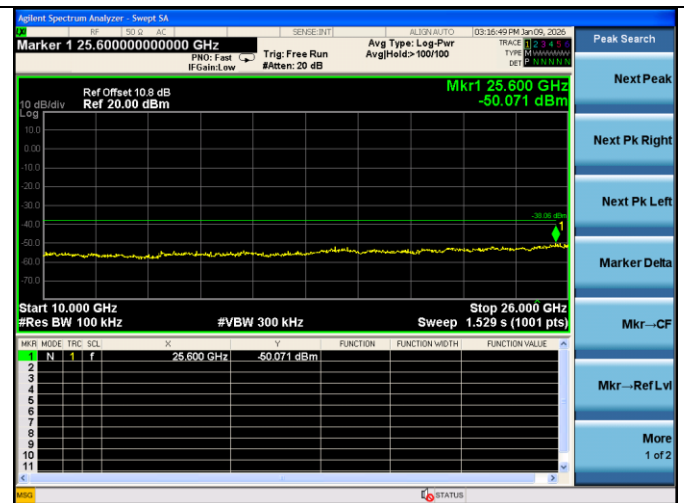
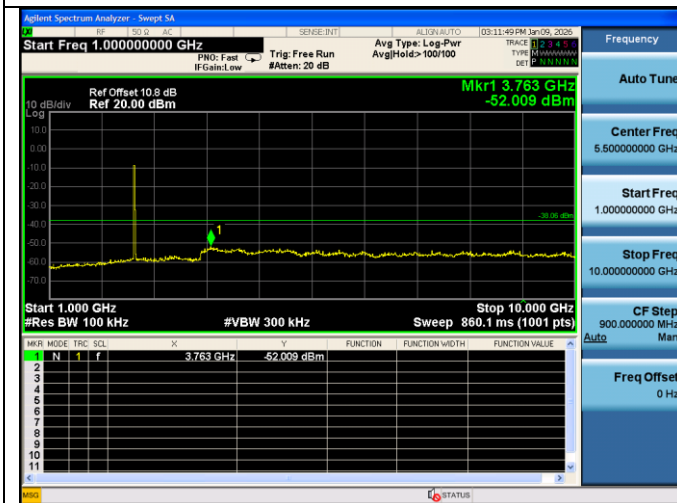
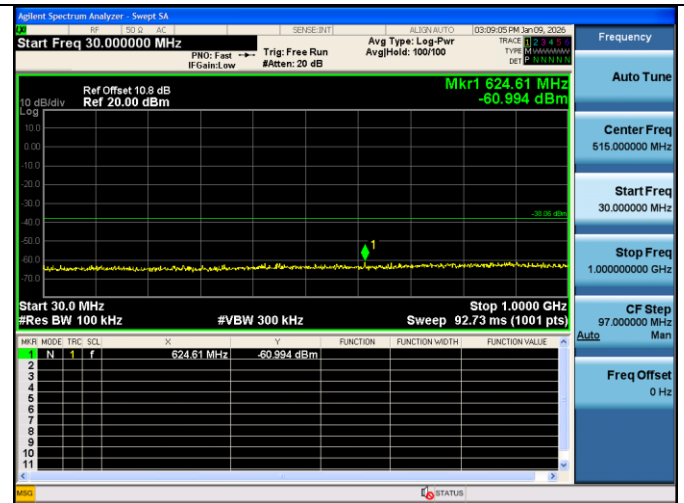
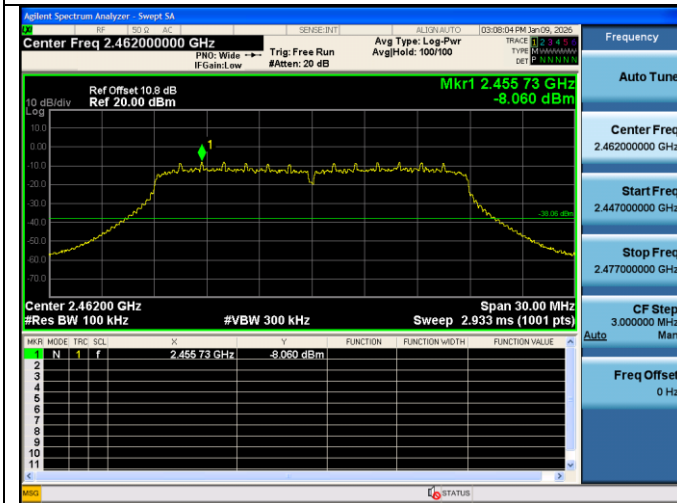
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



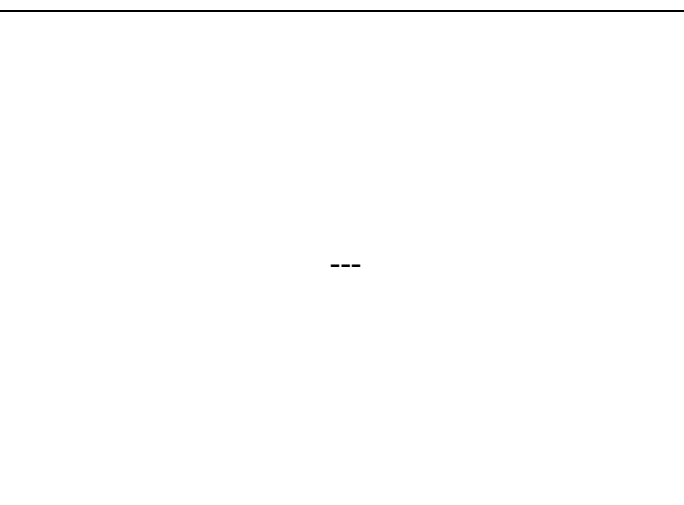
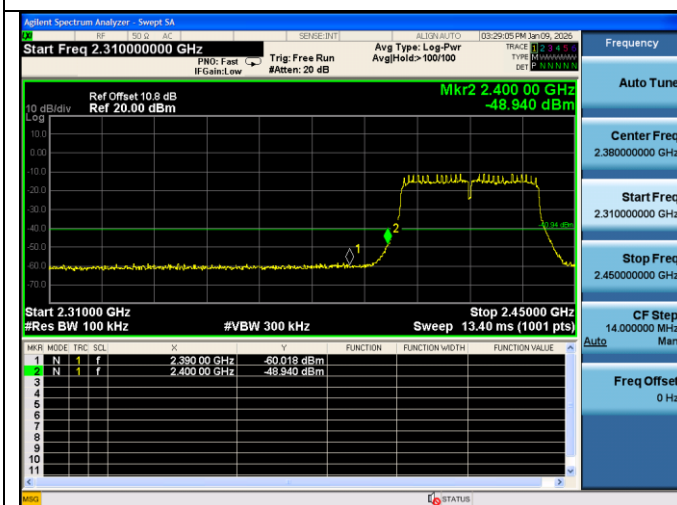
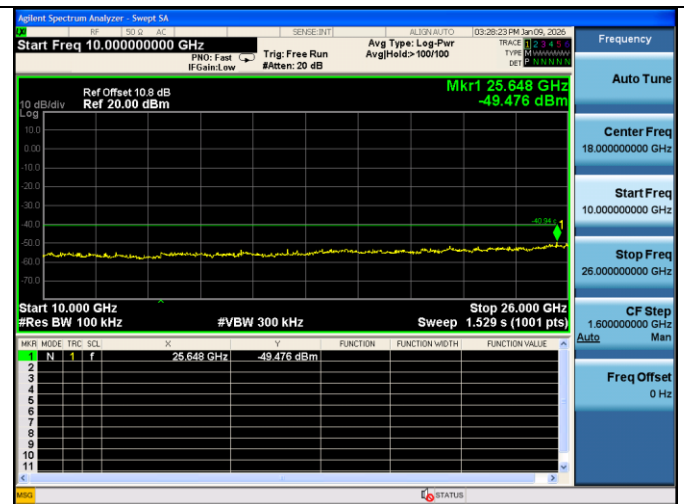
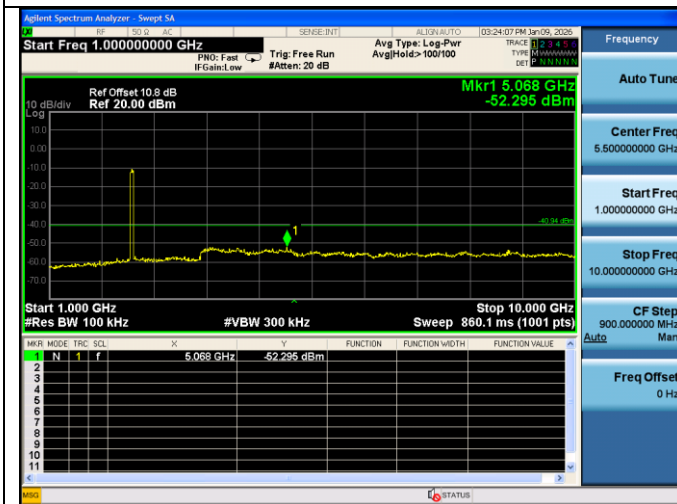
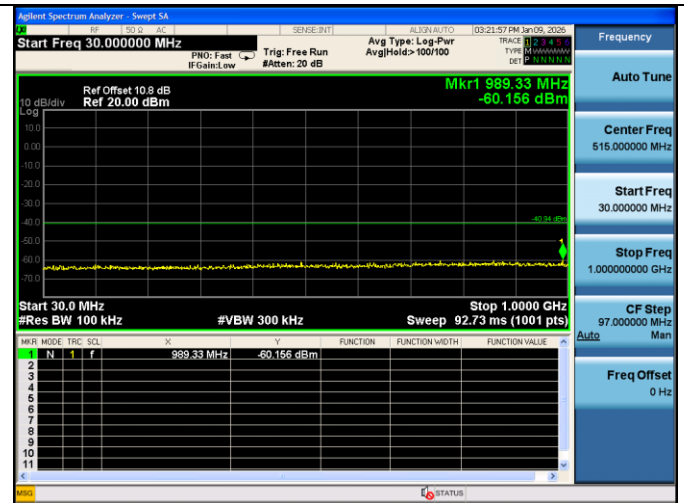
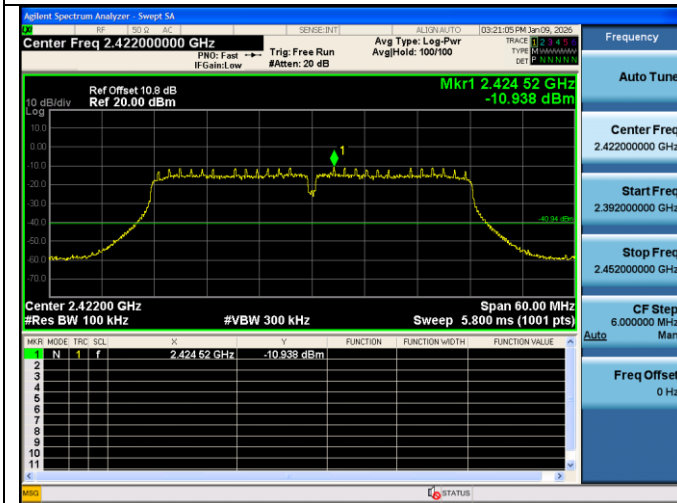
Test CH6: 2437MHz



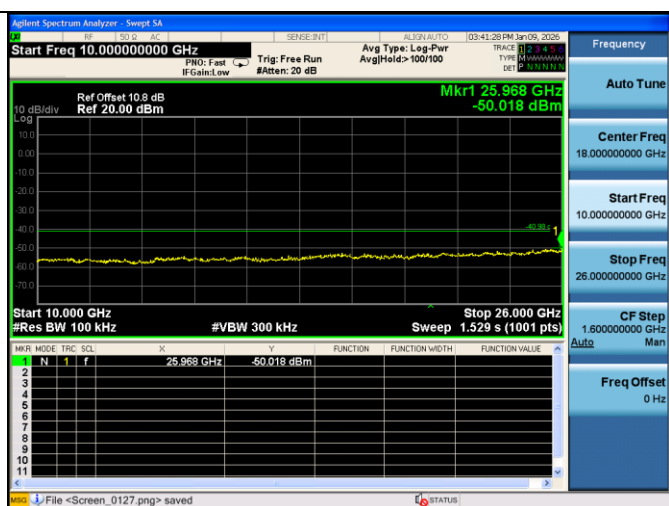
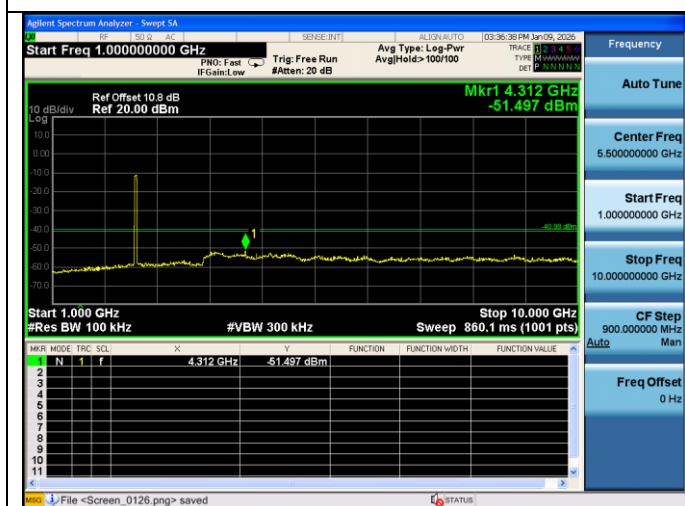
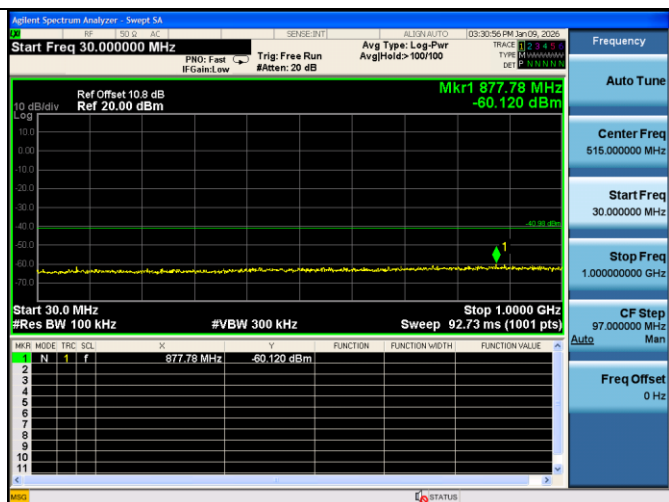
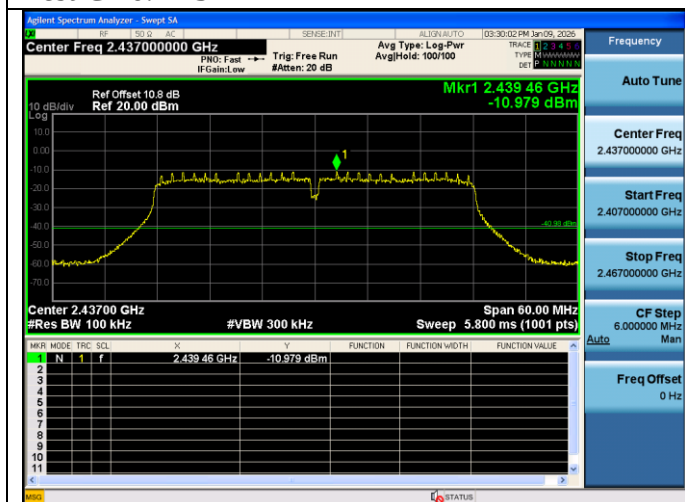
Test CH11: 2462MHz



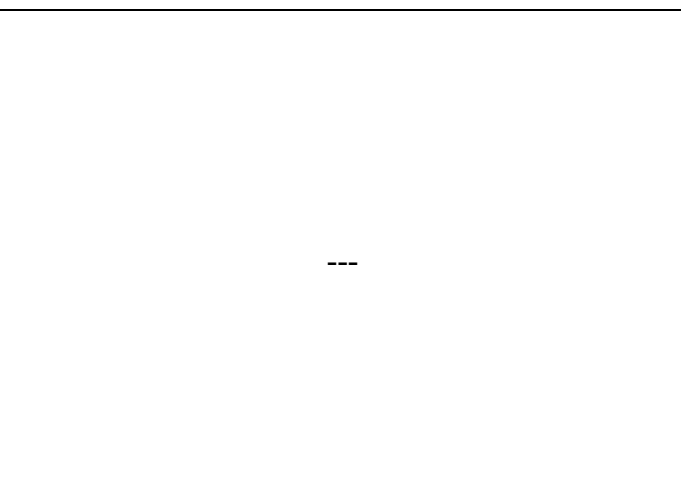
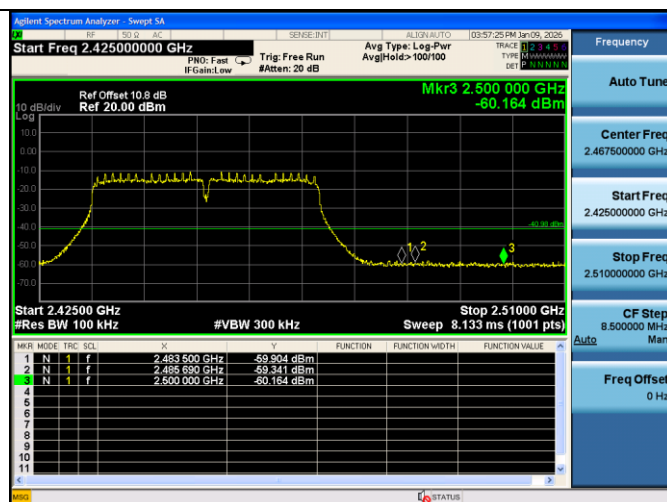
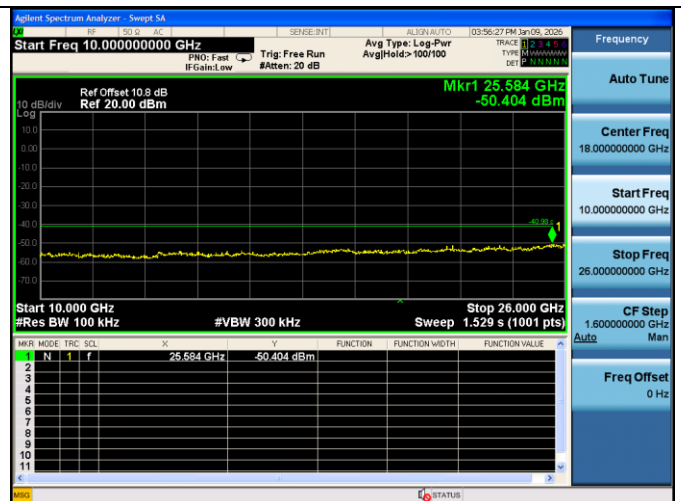
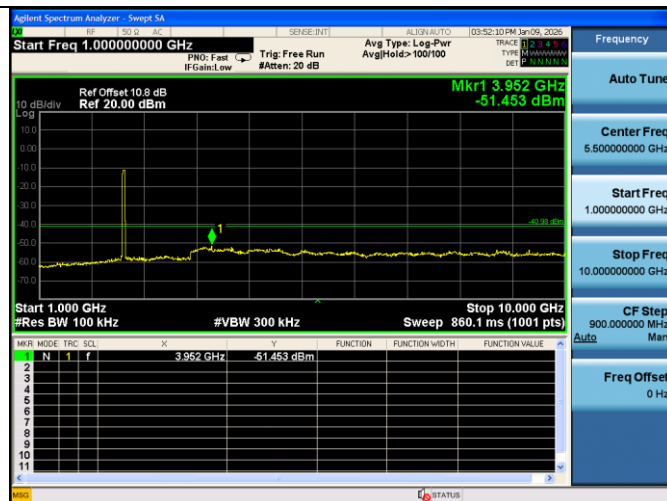
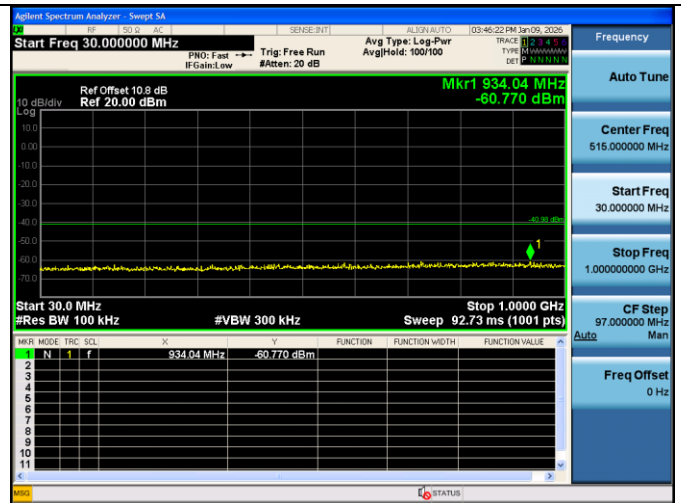
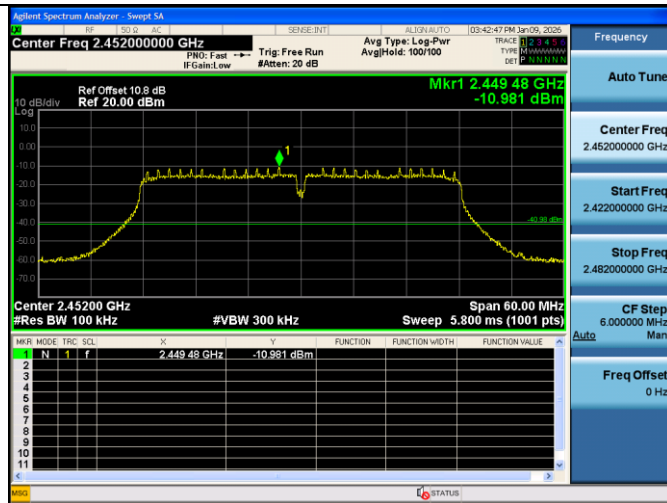
Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



Test CH6: 2437MHz



Test CH9: 2452MHz



6. BAND EDGE COMPLIANCE TEST

6.1.Limit

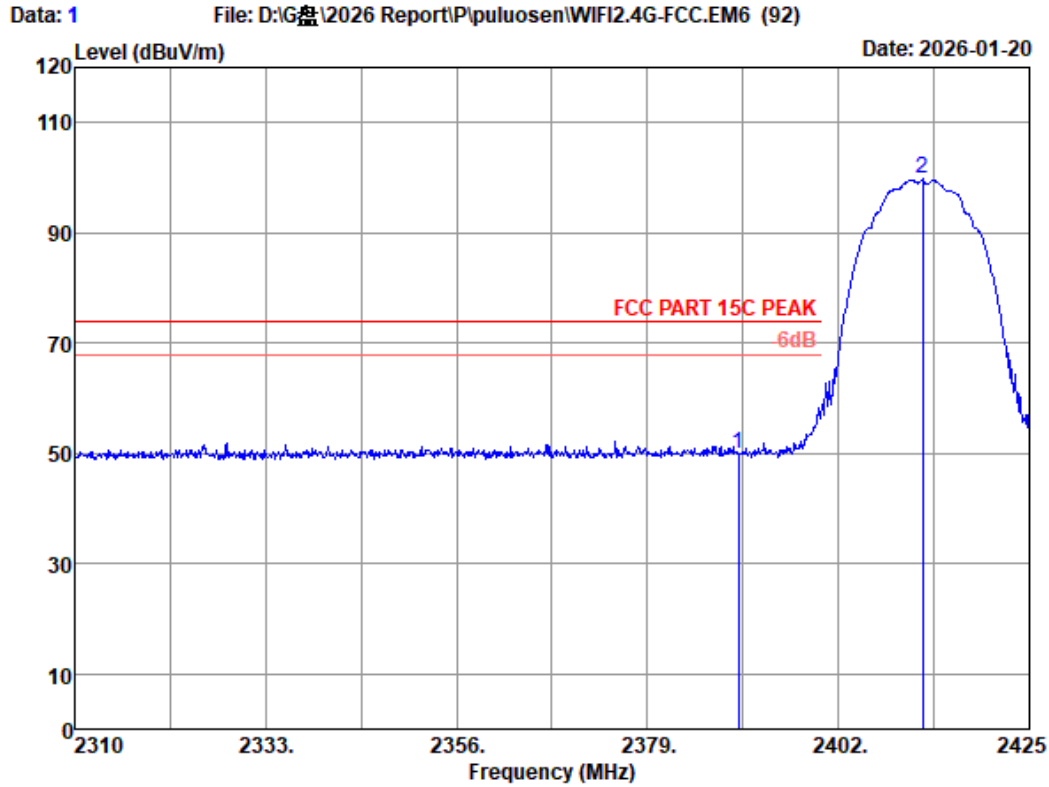
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.2.Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was 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=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.3.Test Results

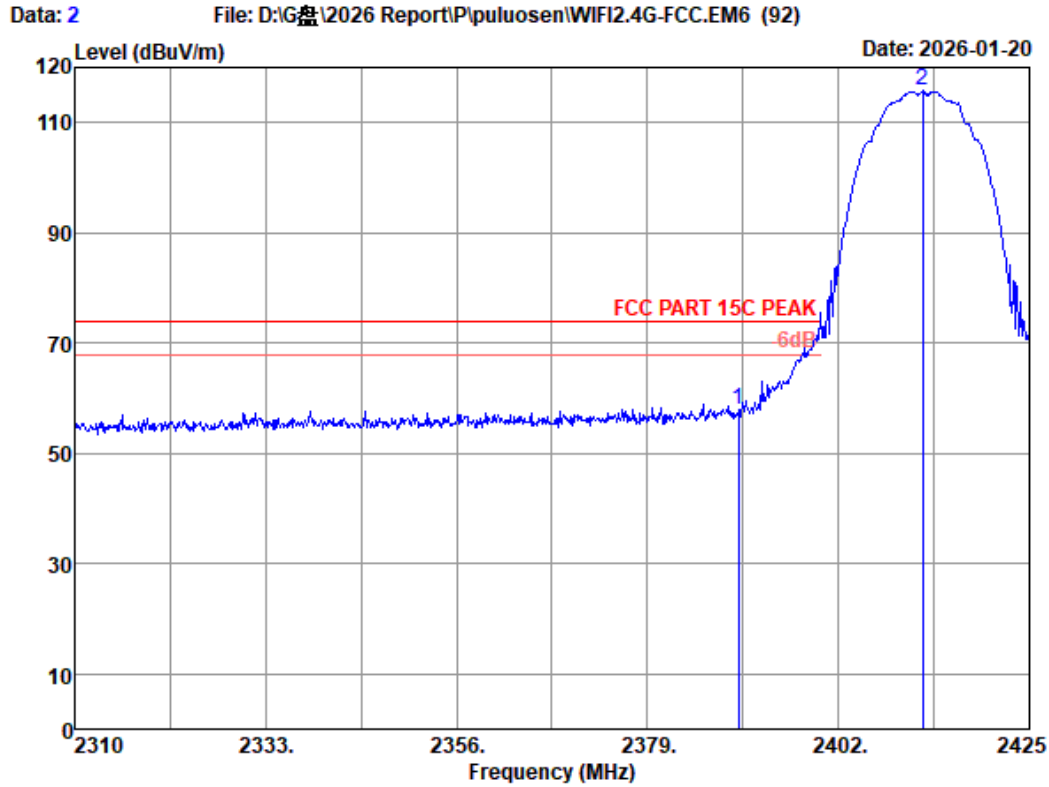
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	54.29	50.02	74.00	23.98	Peak
2	2412.120	27.92	0.64	32.75	104.00	99.81	-----	-----	Peak

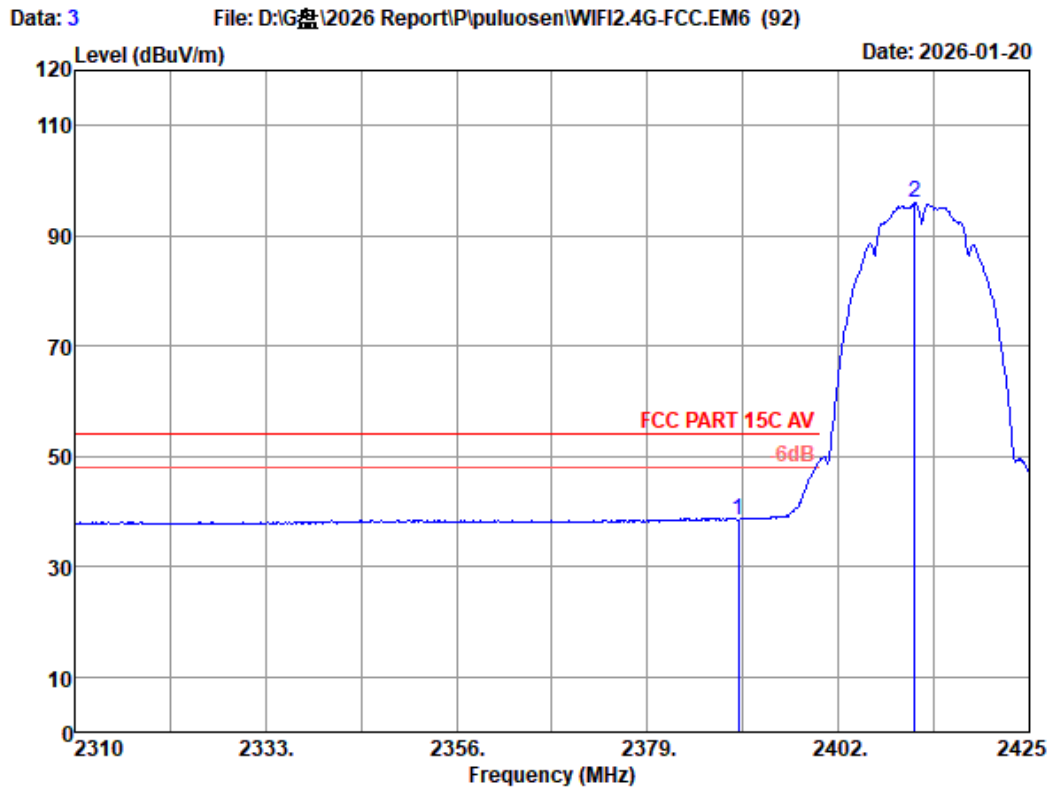
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	62.15	57.88	74.00	16.12	Peak
2	2412.120	27.92	0.64	32.75	120.14	115.95	-----	-----	Peak

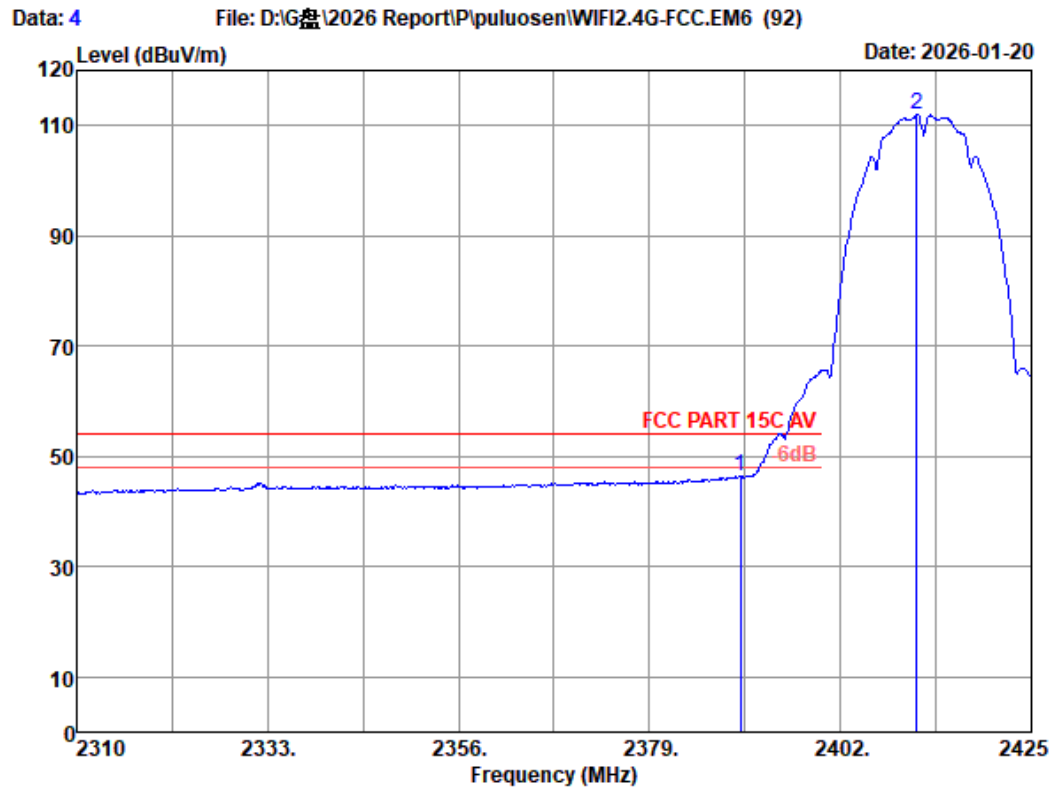
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	42.77	38.50	54.00	15.50	Average
2	2411.200	27.92	0.64	32.75	100.12	95.93	-----	-----	Average

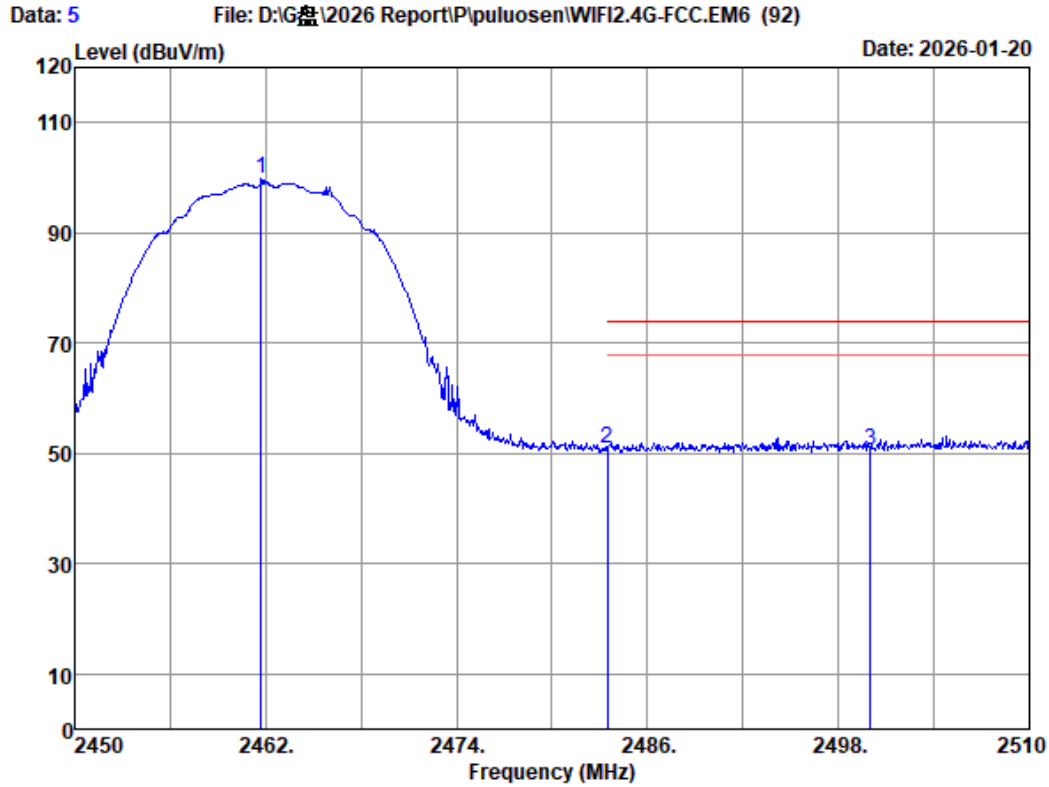
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	50.53	46.26	54.00	7.74	Average
2	2411.200	27.92	0.64	32.75	116.16	111.97	-----	-----	Average

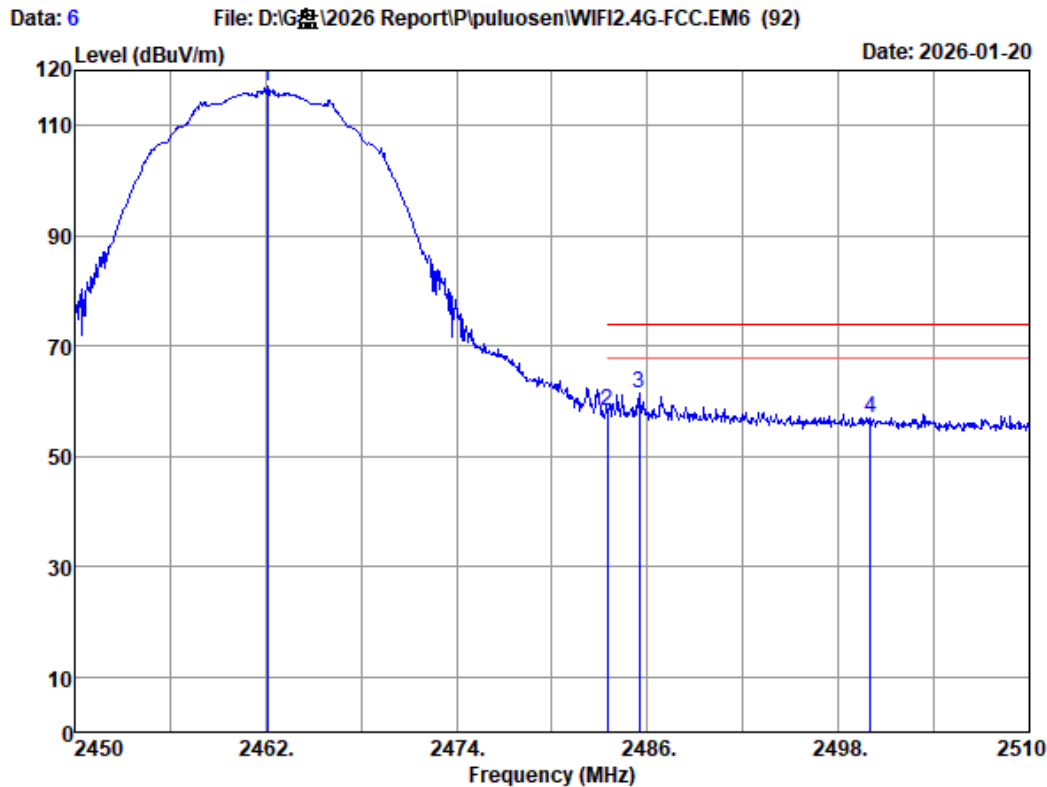
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2461.700	28.09	0.65	32.72	103.74	99.76	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	54.79	51.00	74.00	23.00	Peak
3	2500.000	28.40	0.65	32.70	54.31	50.66	74.00	23.34	Peak

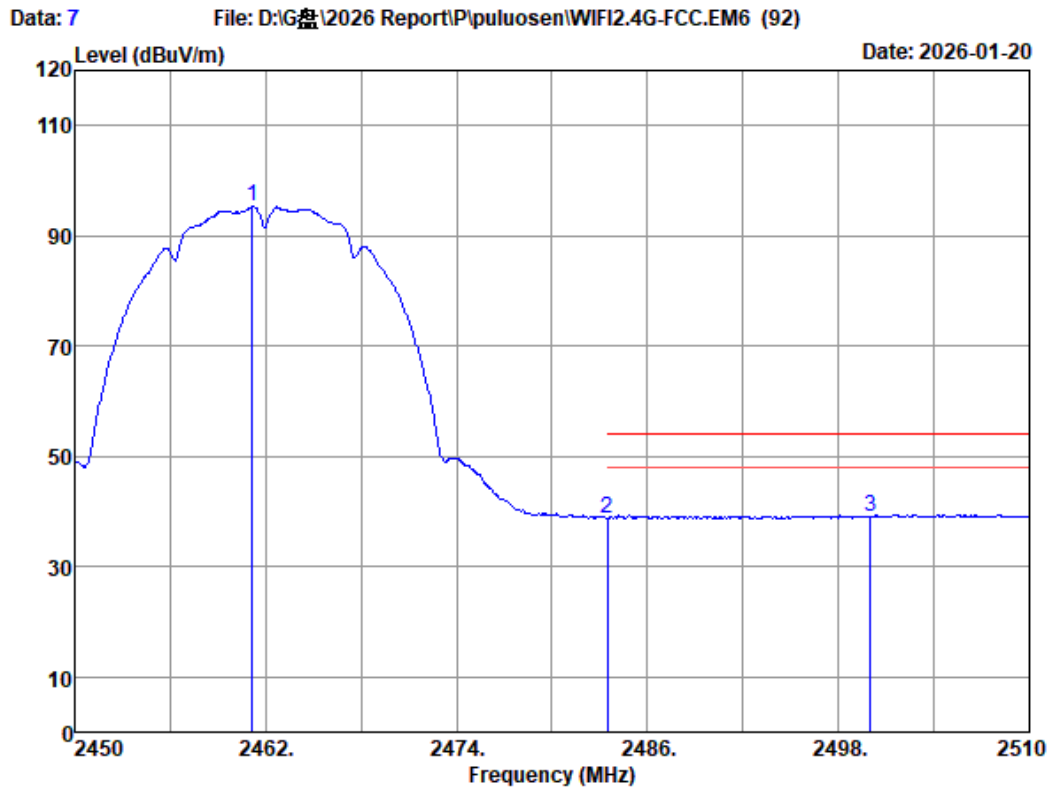
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2462.120	28.10	0.65	32.72	121.13	117.16	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	61.94	58.15	74.00	15.85	Peak
3	2485.460	28.28	0.65	32.71	65.06	61.28	74.00	12.72	Peak
4	2500.000	28.40	0.65	32.70	60.52	56.87	74.00	17.13	Peak

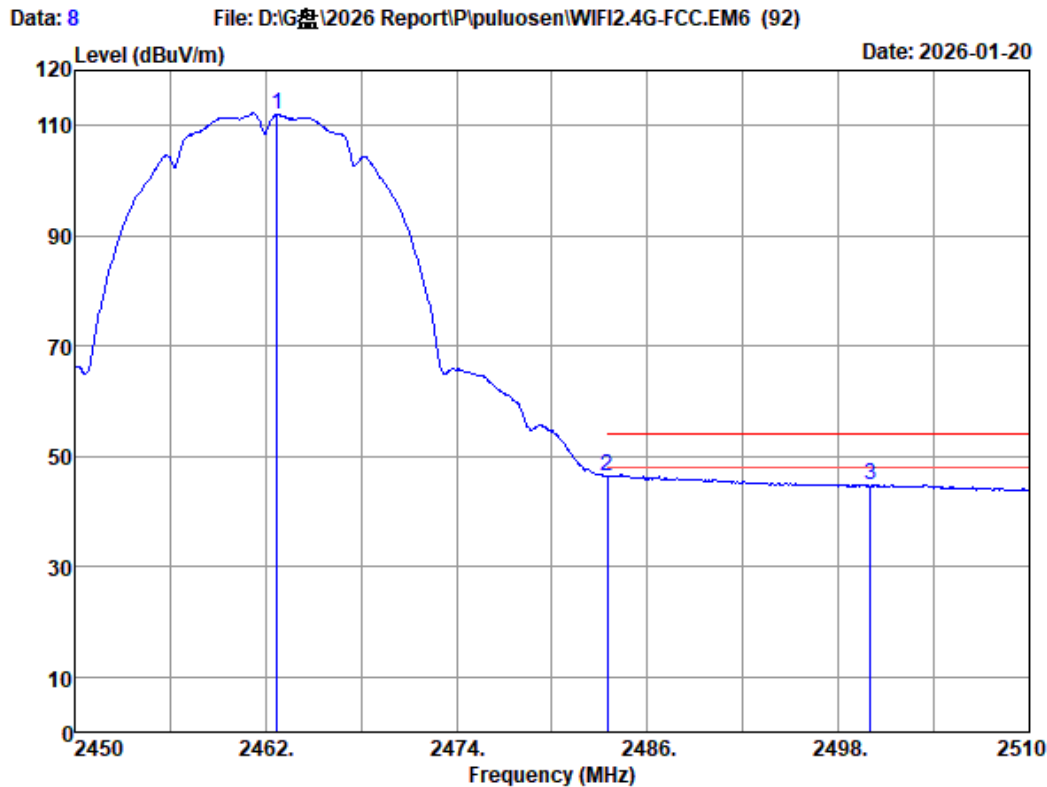
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official limit are not reported



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2461.160	28.09	0.65	32.72	99.29	95.31	-----	-----	Average
2	2483.500	28.27	0.65	32.71	42.63	38.84	54.00	15.16	Average
3	2500.000	28.40	0.65	32.70	42.63	38.98	54.00	15.02	Average

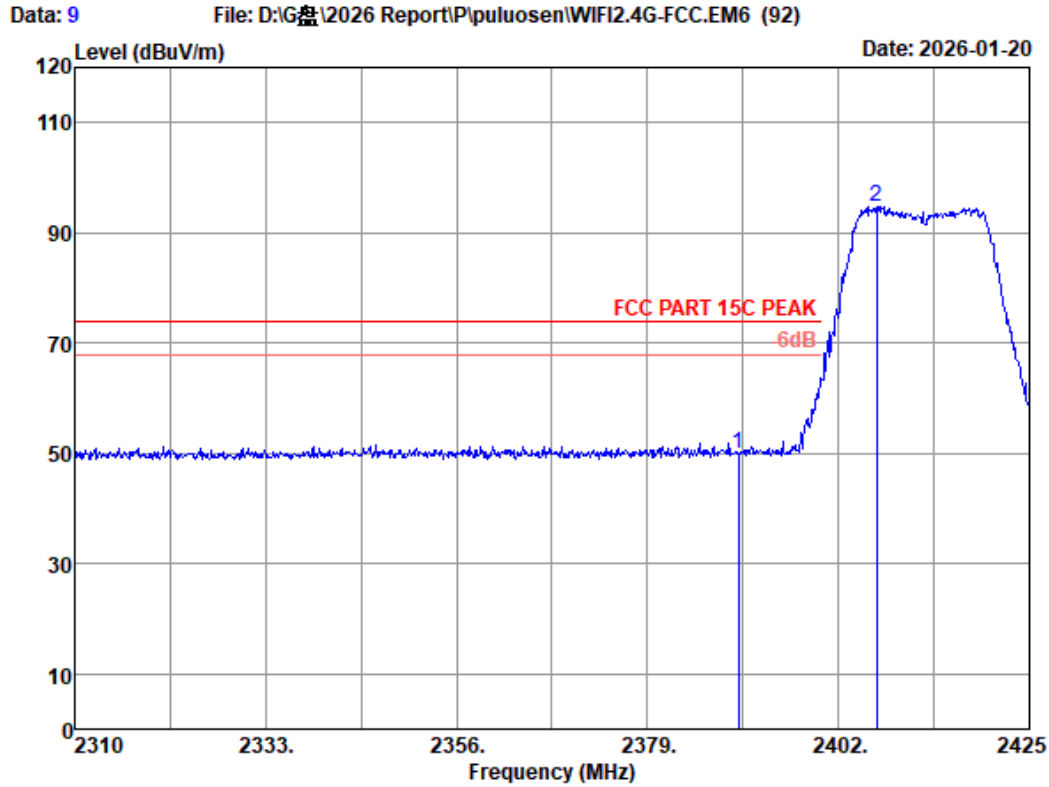
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2462.720	28.10	0.65	32.72	116.01	112.04	-----	-----	Average
2	2483.500	28.27	0.65	32.71	50.23	46.44	54.00	7.56	Average
3	2500.000	28.40	0.65	32.70	48.39	44.74	54.00	9.26	Average

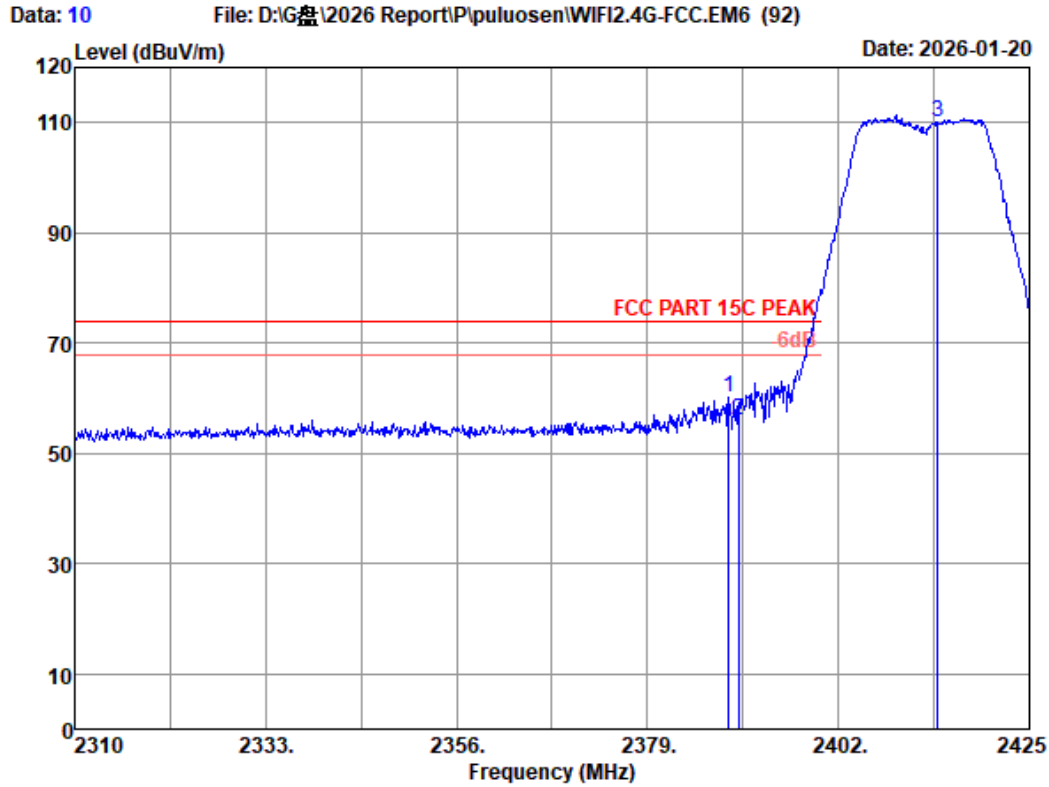
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	54.24	49.97	74.00	24.03	Peak
2	2406.600	27.91	0.64	32.76	98.97	94.76	-----	-----	Peak

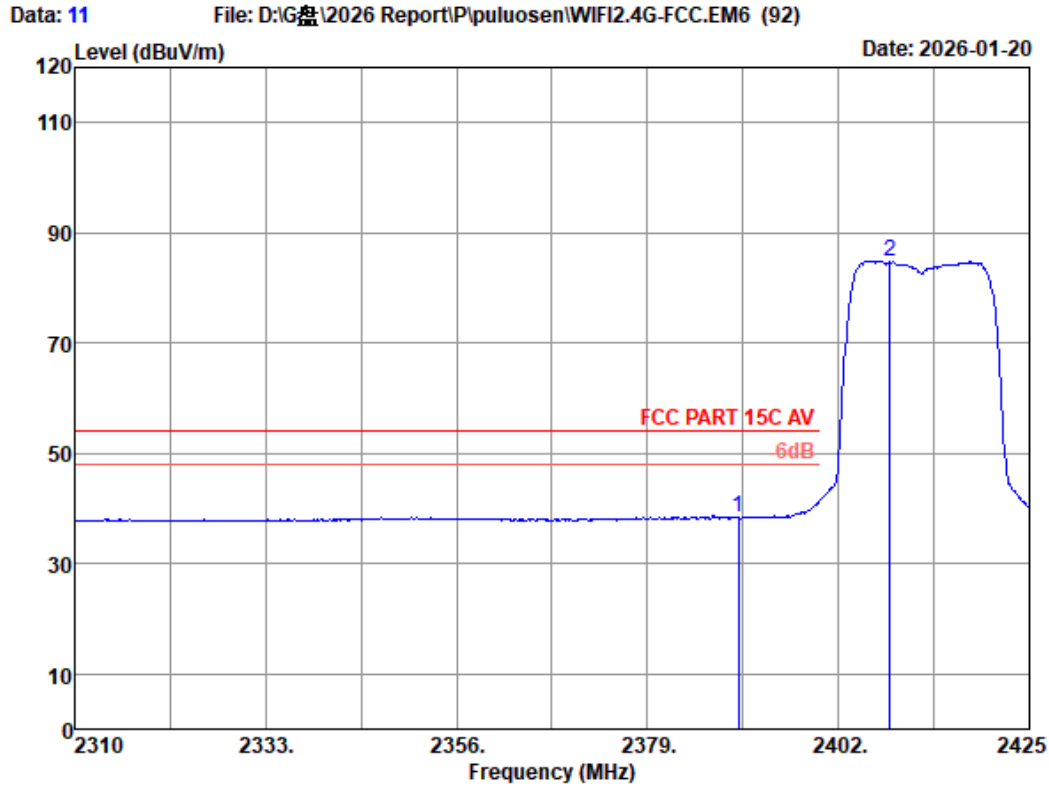
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2388.775	27.86	0.64	32.77	64.39	60.12	74.00	13.88	Peak
2	2390.000	27.86	0.64	32.77	60.33	56.06	74.00	17.94	Peak
3	2413.960	27.93	0.64	32.75	114.33	110.15	-----	-----	Peak

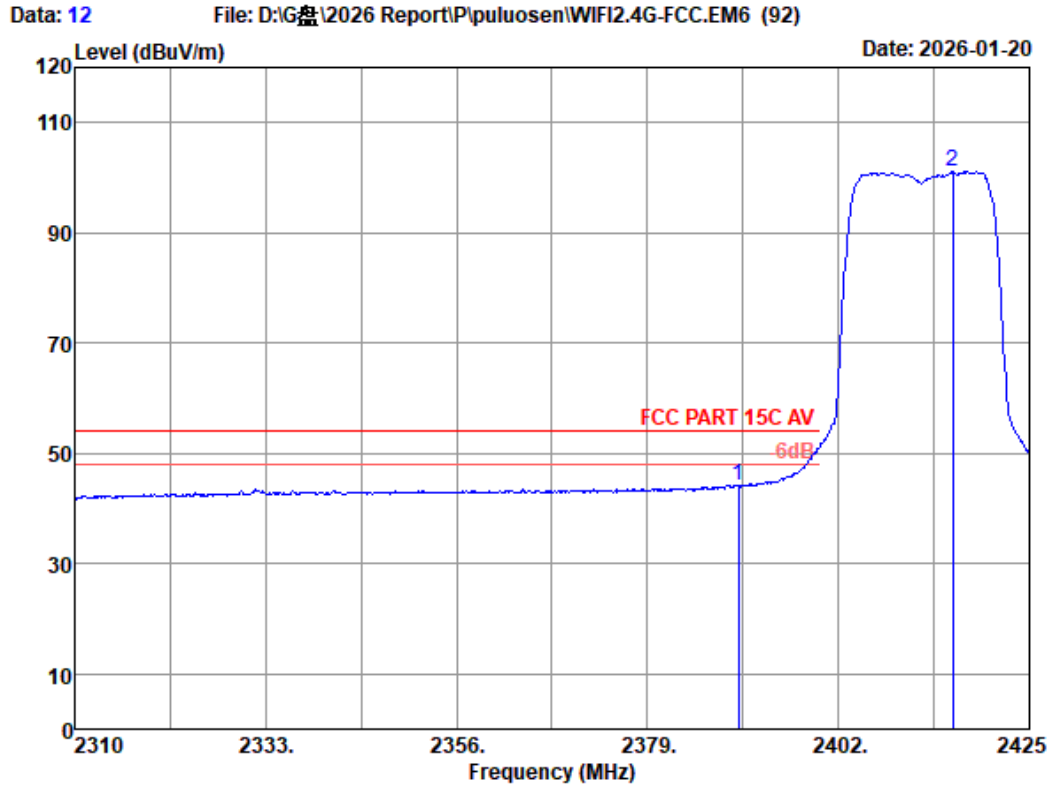
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official limit are not reported



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	42.55	38.28	54.00	15.72	Average
2	2408.210	27.92	0.64	32.76	88.94	84.74	-----	-----	Average

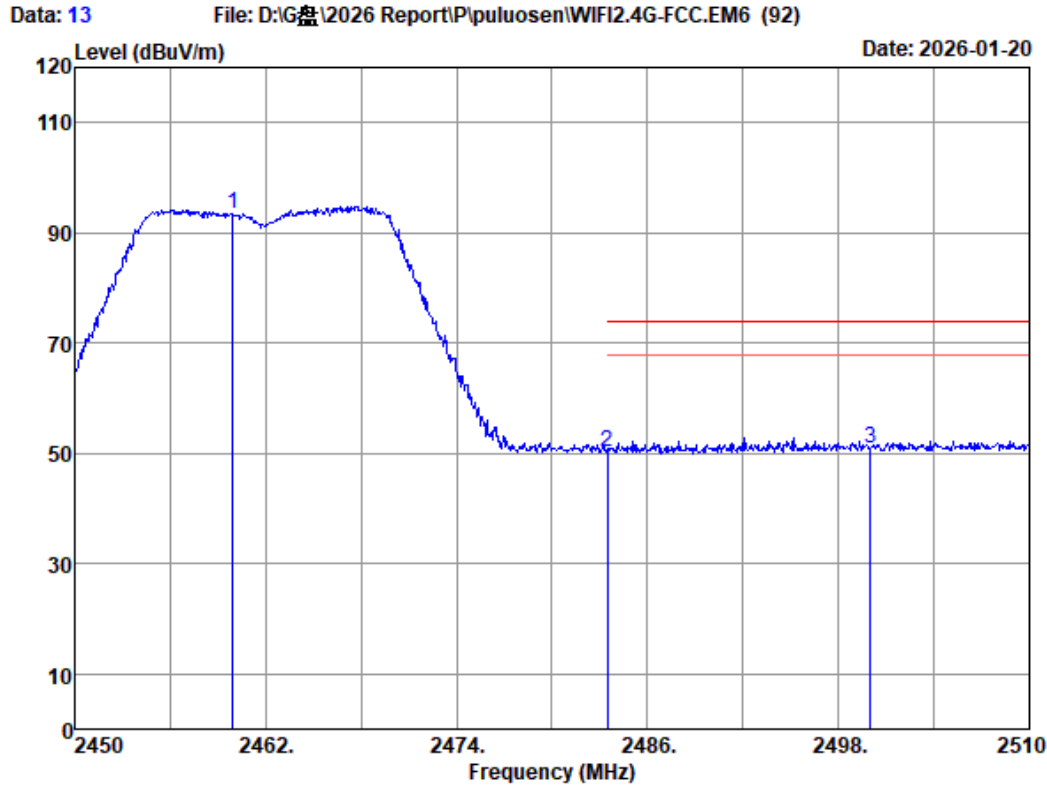
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	48.30	44.03	54.00	9.97	Average
2	2415.800	27.93	0.64	32.75	105.18	101.00	-----	-----	Average

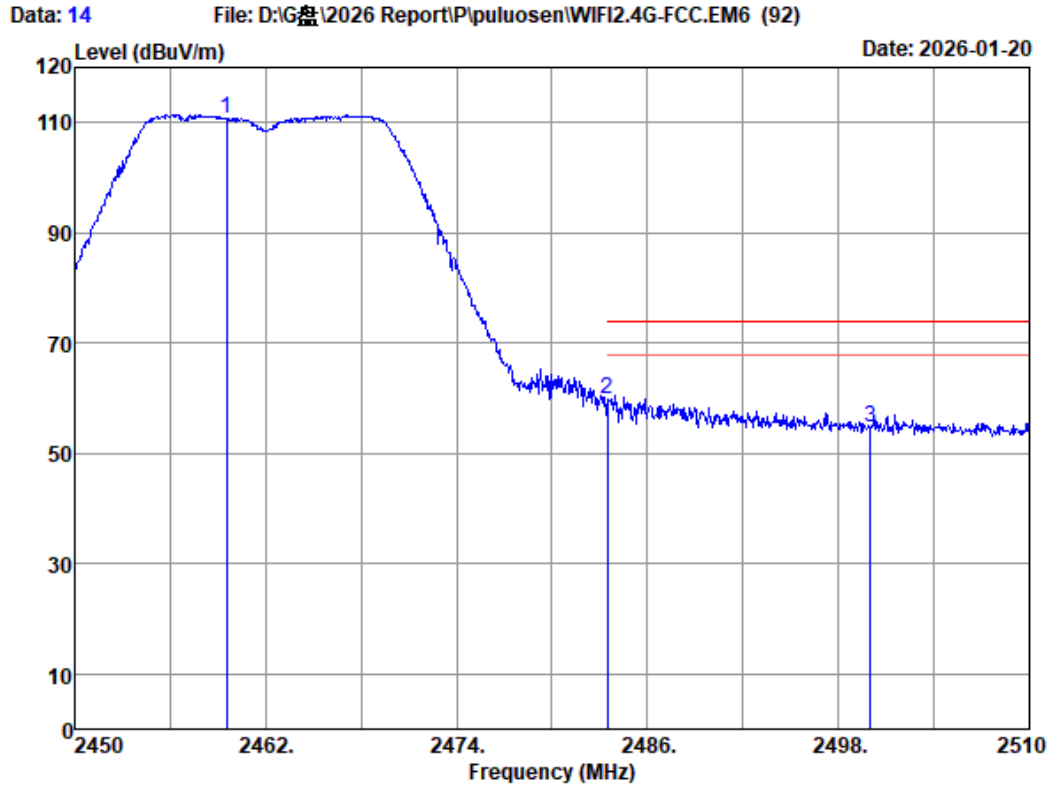
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2459.960	28.08	0.65	32.72	97.48	93.49	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	54.17	50.38	74.00	23.62	Peak
3	2500.000	28.40	0.65	32.70	54.59	50.94	74.00	23.06	Peak

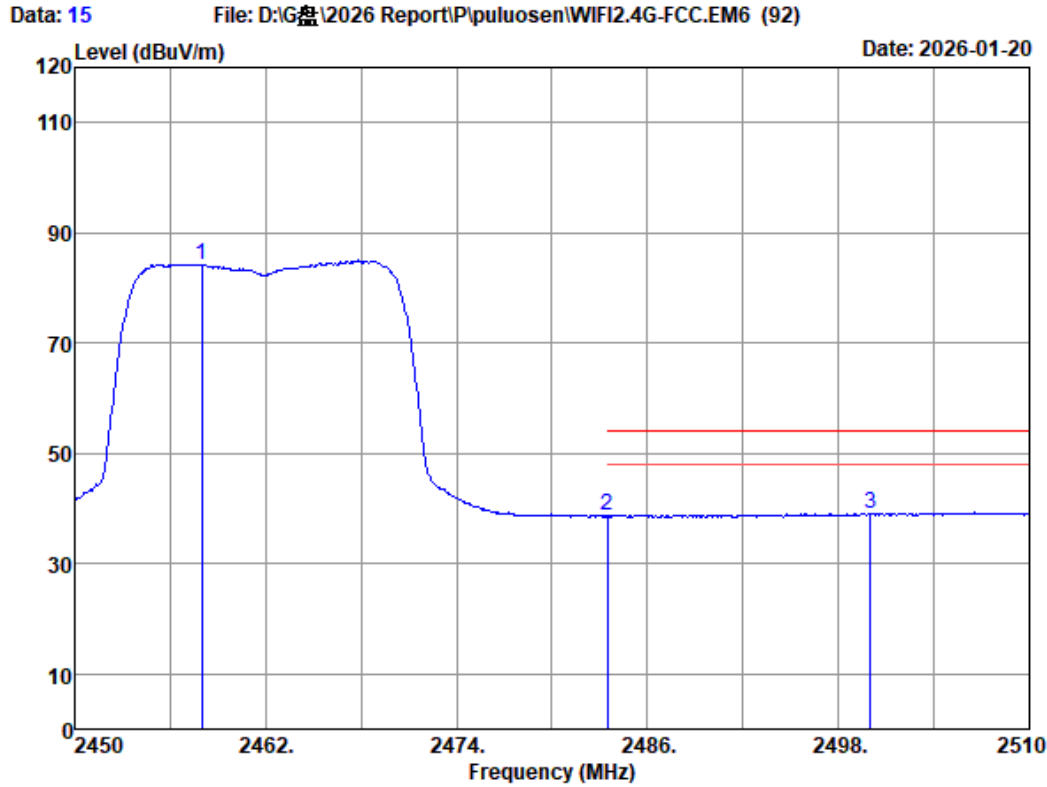
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2459.540	28.08	0.65	32.72	114.82	110.83	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	63.60	59.81	74.00	14.19	Peak
3	2500.000	28.40	0.65	32.70	58.23	54.58	74.00	19.42	Peak

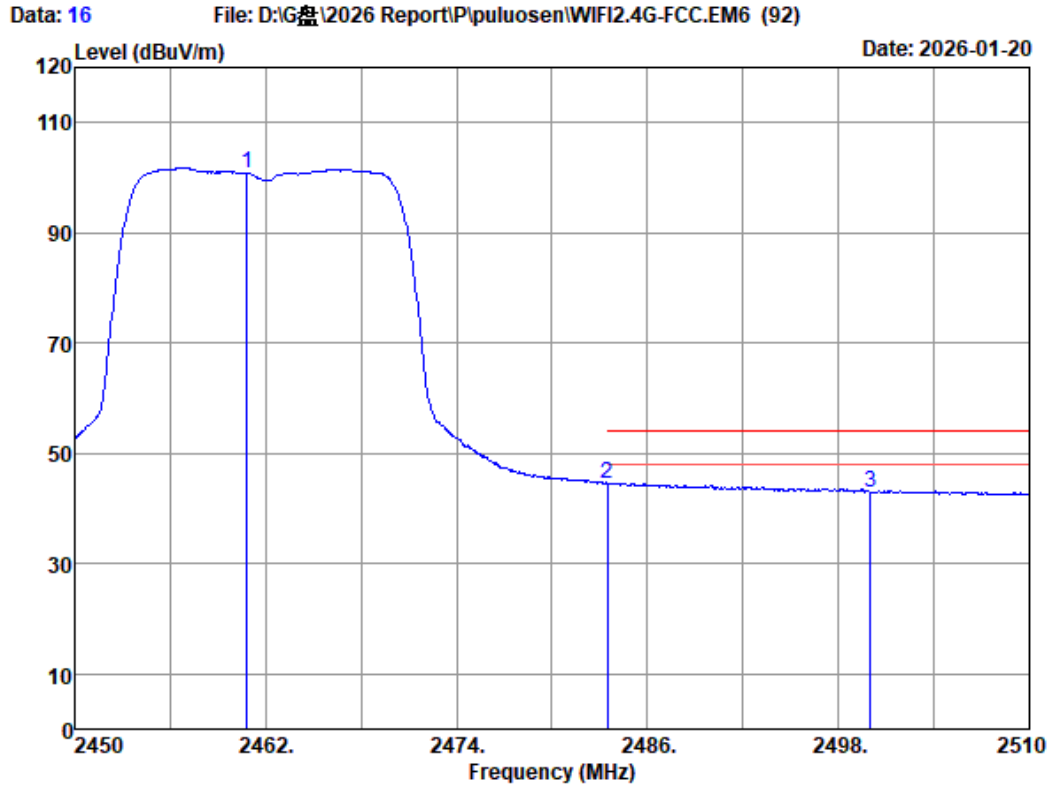
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2457.980	28.06	0.65	32.73	88.29	84.27	-----	-----	Average
2	2483.500	28.27	0.65	32.71	42.43	38.64	54.00	15.36	Average
3	2500.000	28.40	0.65	32.70	42.64	38.99	54.00	15.01	Average

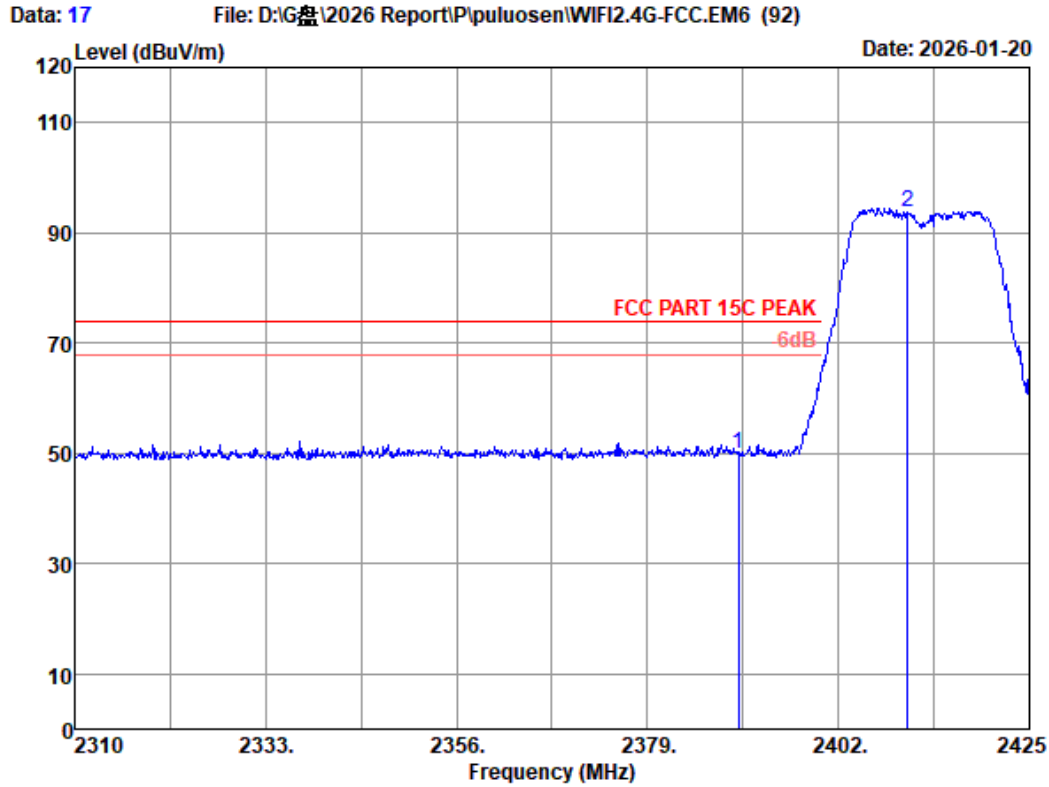
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2460.800	28.09	0.65	32.72	104.80	100.82	-----	-----	Average
2	2483.500	28.27	0.65	32.71	48.32	44.53	54.00	9.47	Average
3	2500.000	28.40	0.65	32.70	46.59	42.94	54.00	11.06	Average

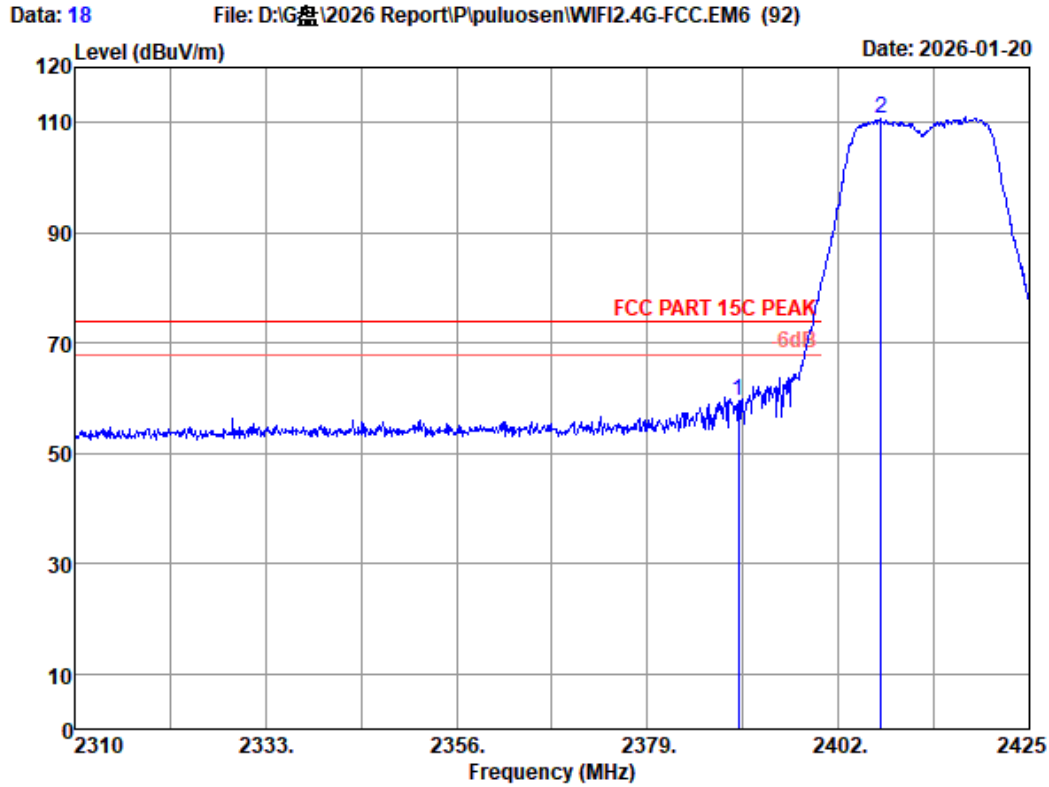
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official limit are not reported



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	54.29	50.02	74.00	23.98	Peak
2	2410.280	27.92	0.64	32.75	97.91	93.72	-----	-----	Peak

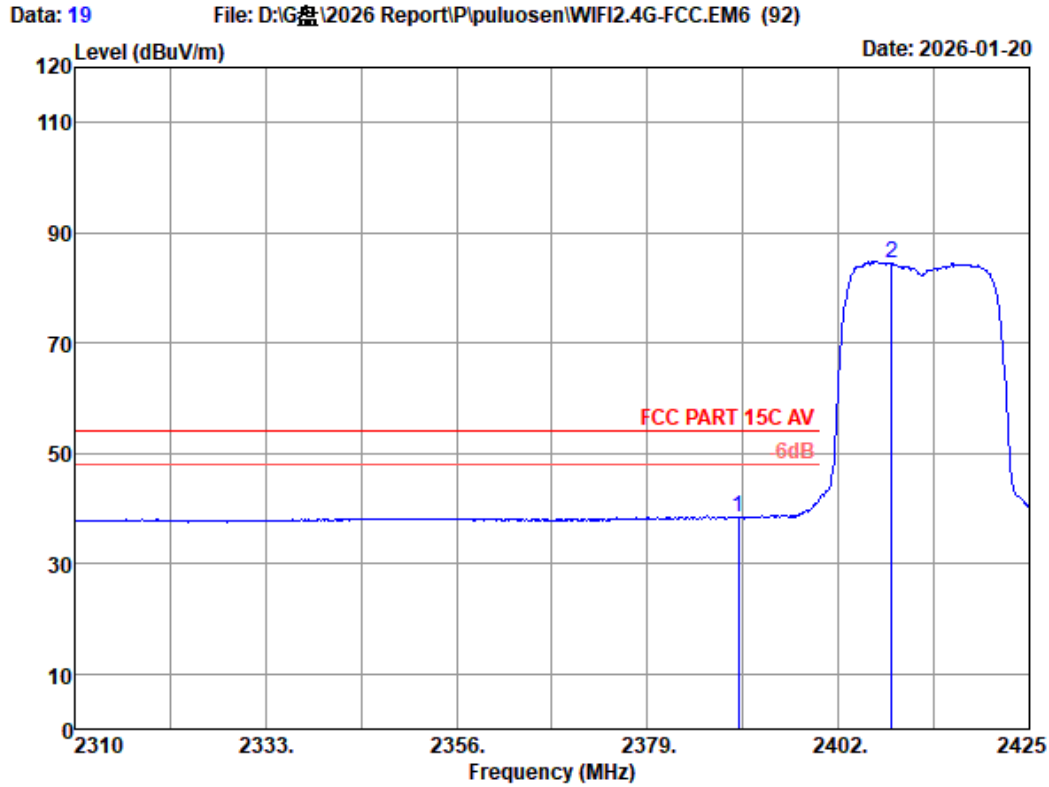
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	63.90	59.63	74.00	14.37	Peak
2	2407.175	27.91	0.64	32.76	114.87	110.66	-----	-----	Peak

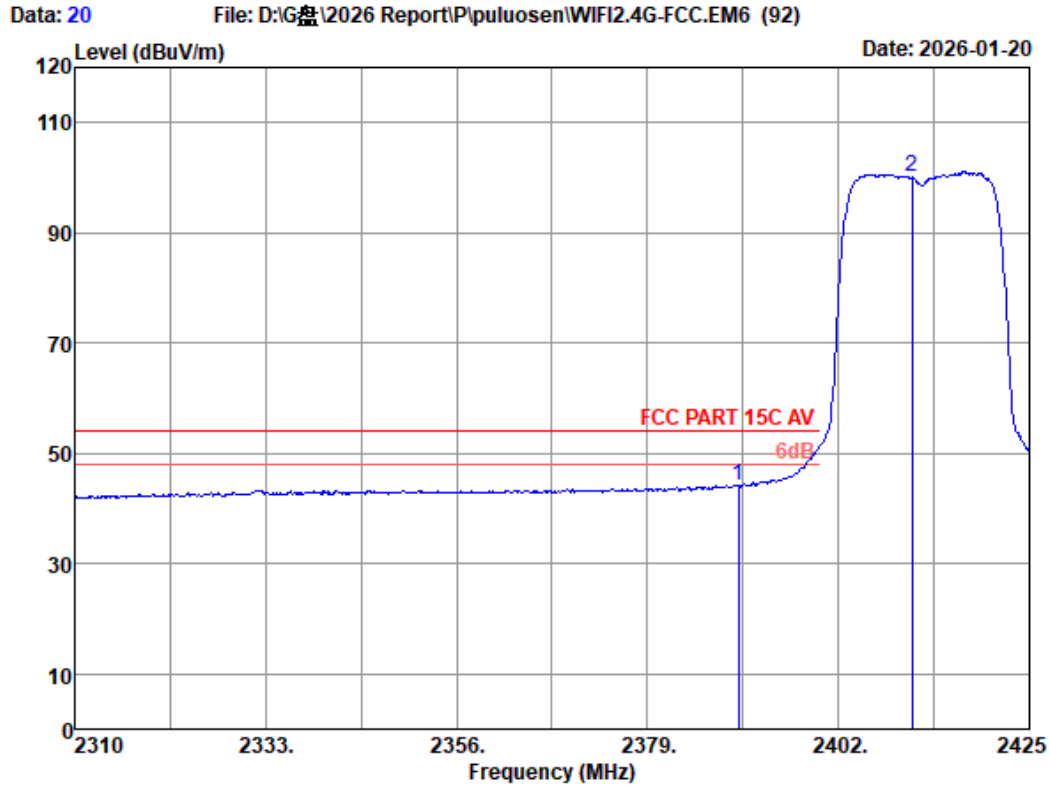
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	42.57	38.30	54.00	15.70	Average
2	2408.440	27.92	0.64	32.75	88.67	84.48	-----	-----	Average

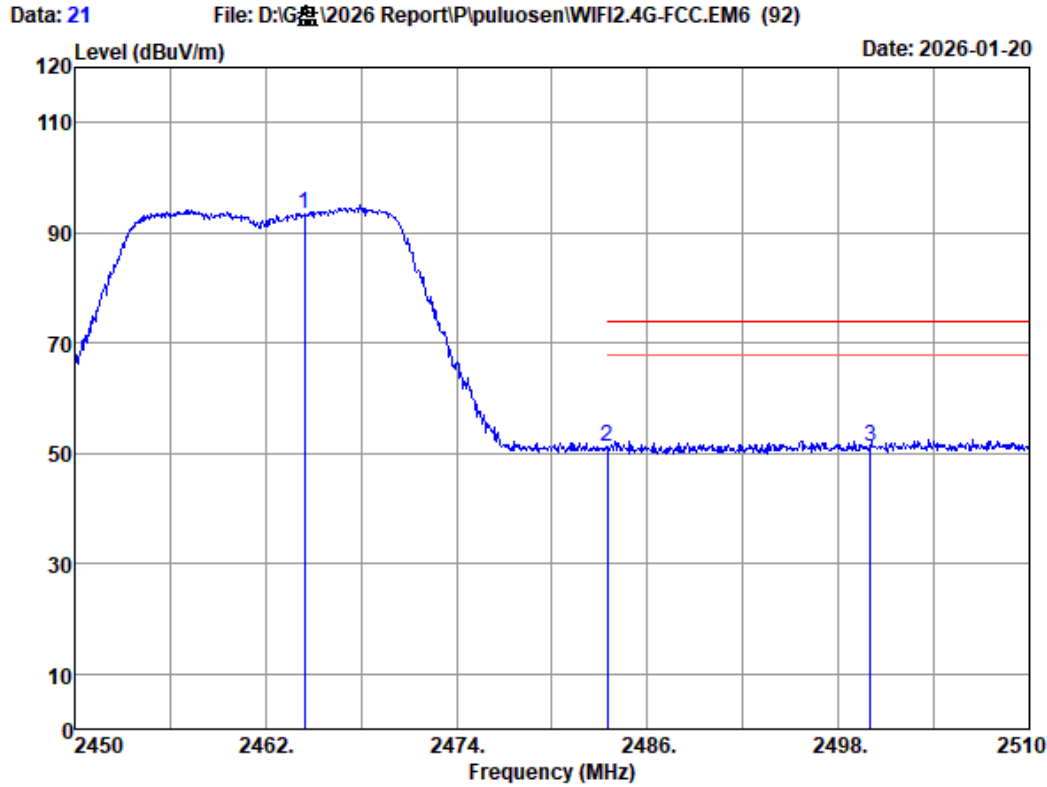
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	48.45	44.18	54.00	9.82	Average
2	2410.855	27.92	0.64	32.75	104.30	100.11	-----	-----	Average

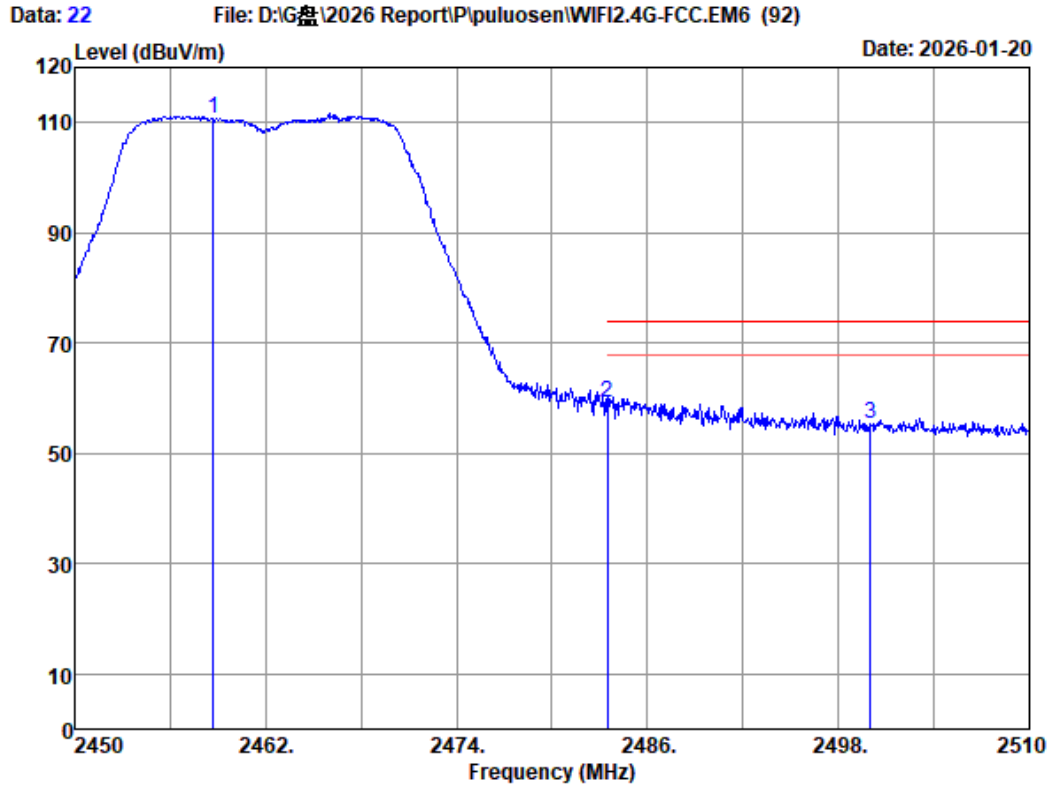
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2464.460	28.12	0.65	32.72	97.47	93.52	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	54.84	51.05	74.00	22.95	Peak
3	2500.000	28.40	0.65	32.70	54.75	51.10	74.00	22.90	Peak

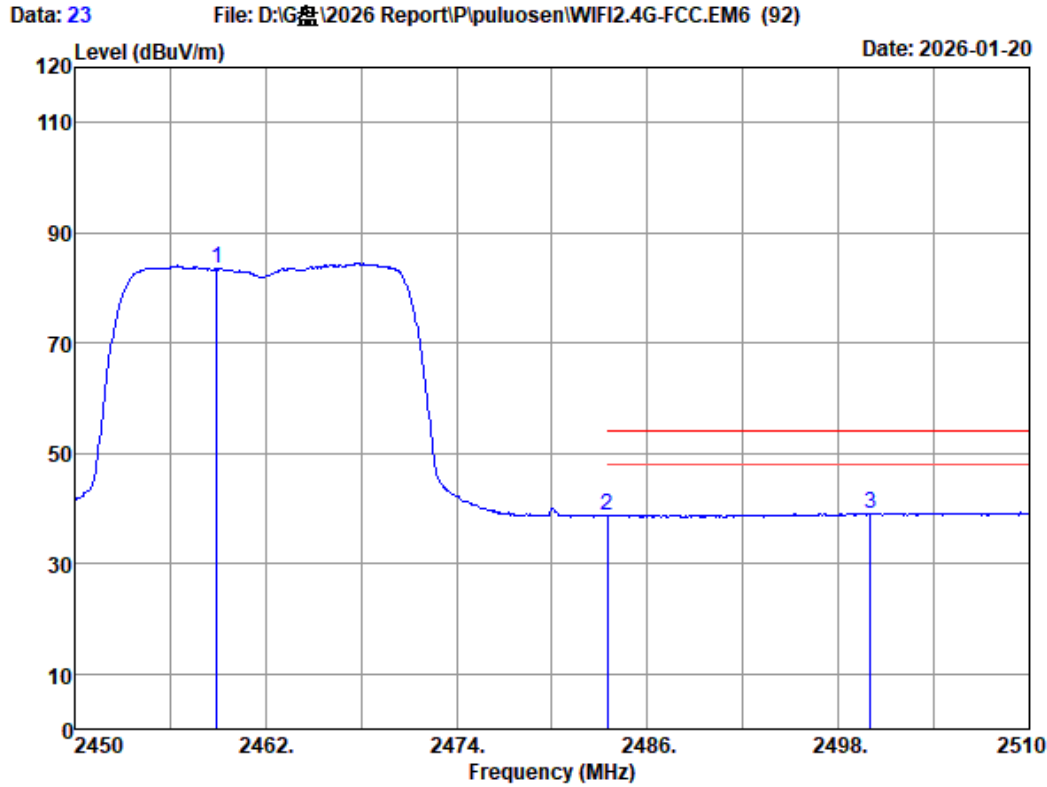
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2458.700	28.07	0.65	32.72	114.72	110.72	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	63.10	59.31	74.00	14.69	Peak
3	2500.000	28.40	0.65	32.70	58.86	55.21	74.00	18.79	Peak

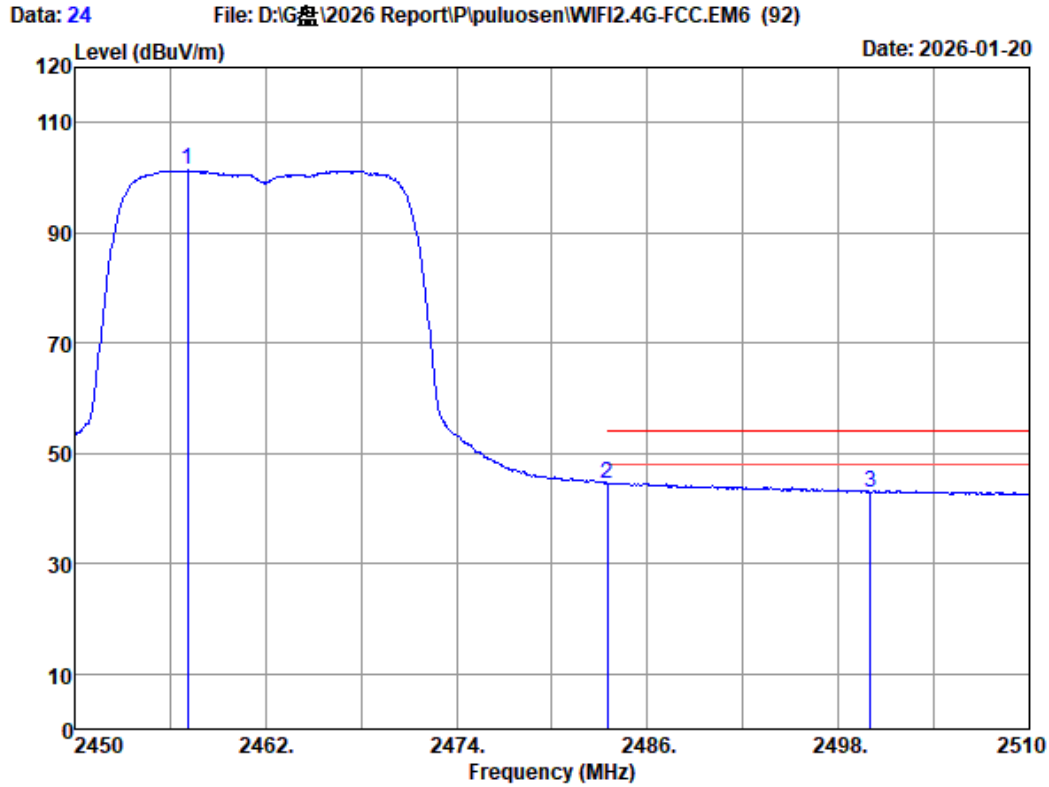
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2458.940	28.07	0.65	32.72	87.49	83.49	-----	-----	Average
2	2483.500	28.27	0.65	32.71	42.36	38.57	54.00	15.43	Average
3	2500.000	28.40	0.65	32.70	42.67	39.02	54.00	14.98	Average

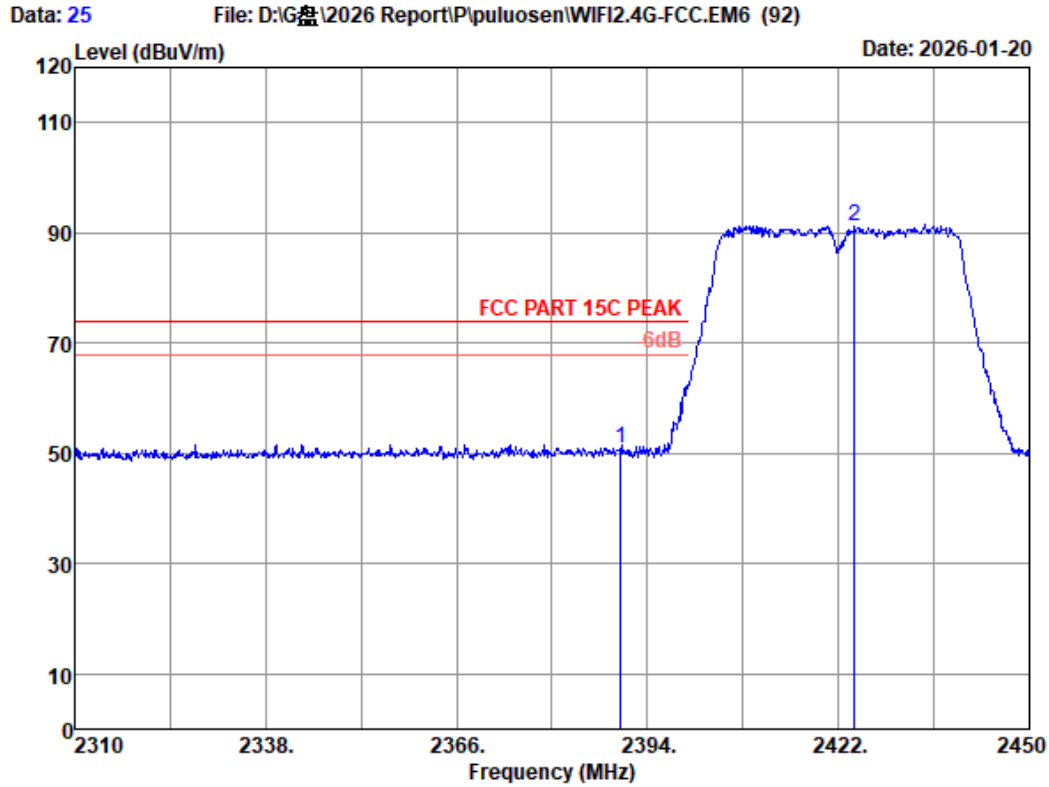
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2457.080	28.06	0.65	32.73	105.33	101.31	-----	-----	Average
2	2483.500	28.27	0.65	32.71	48.37	44.58	54.00	9.42	Average
3	2500.000	28.40	0.65	32.70	46.63	42.98	54.00	11.02	Average

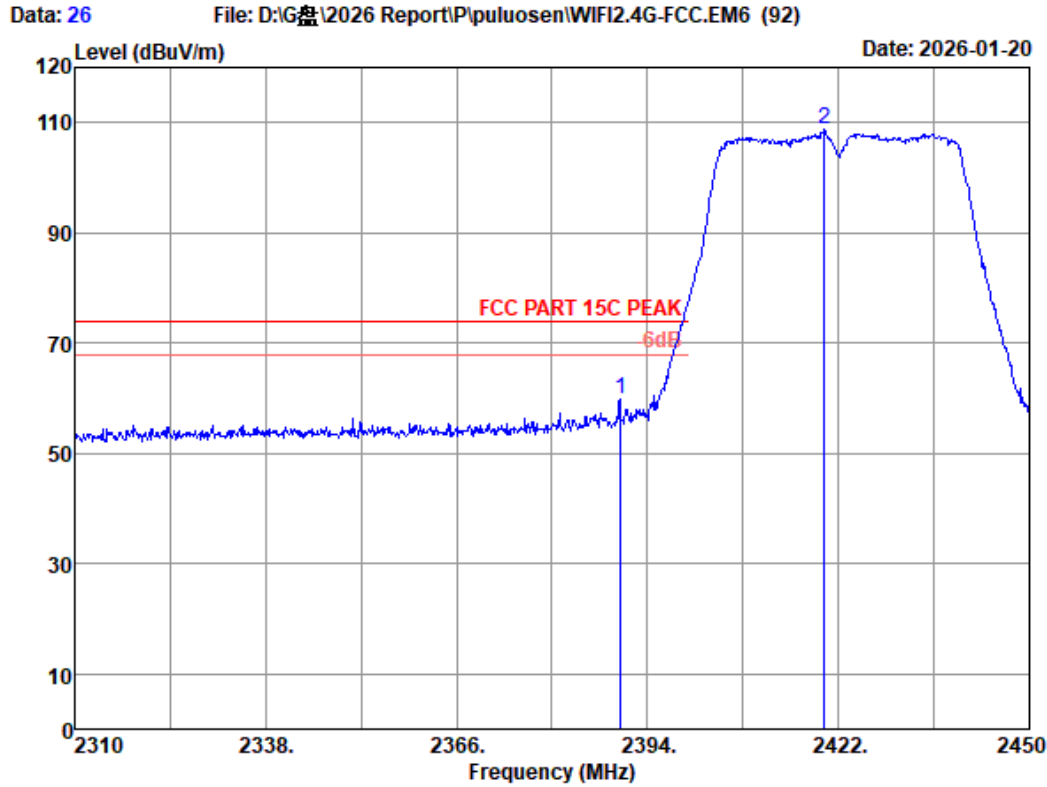
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official limit are not reported



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	55.10	50.83	74.00	23.17	Peak
2	2424.380	27.95	0.64	32.75	95.45	91.29	-----	-----	Peak

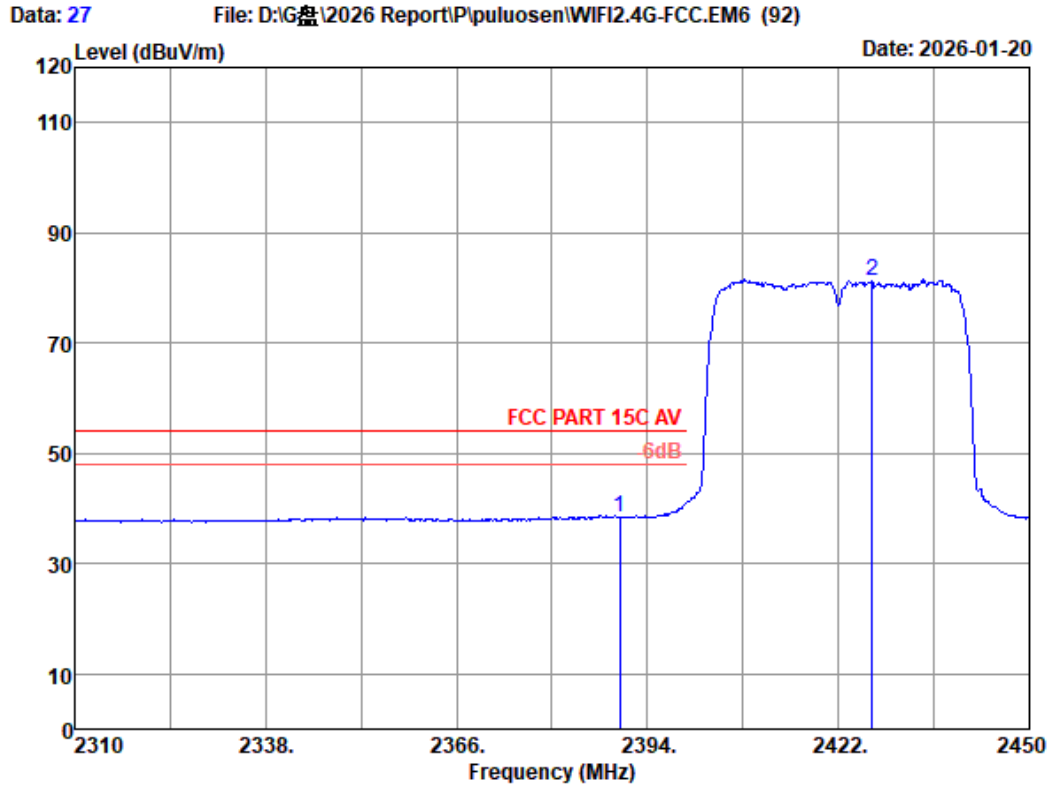
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	64.11	59.84	74.00	14.16	Peak
2	2419.900	27.94	0.64	32.75	113.02	108.85	-----	-----	Peak

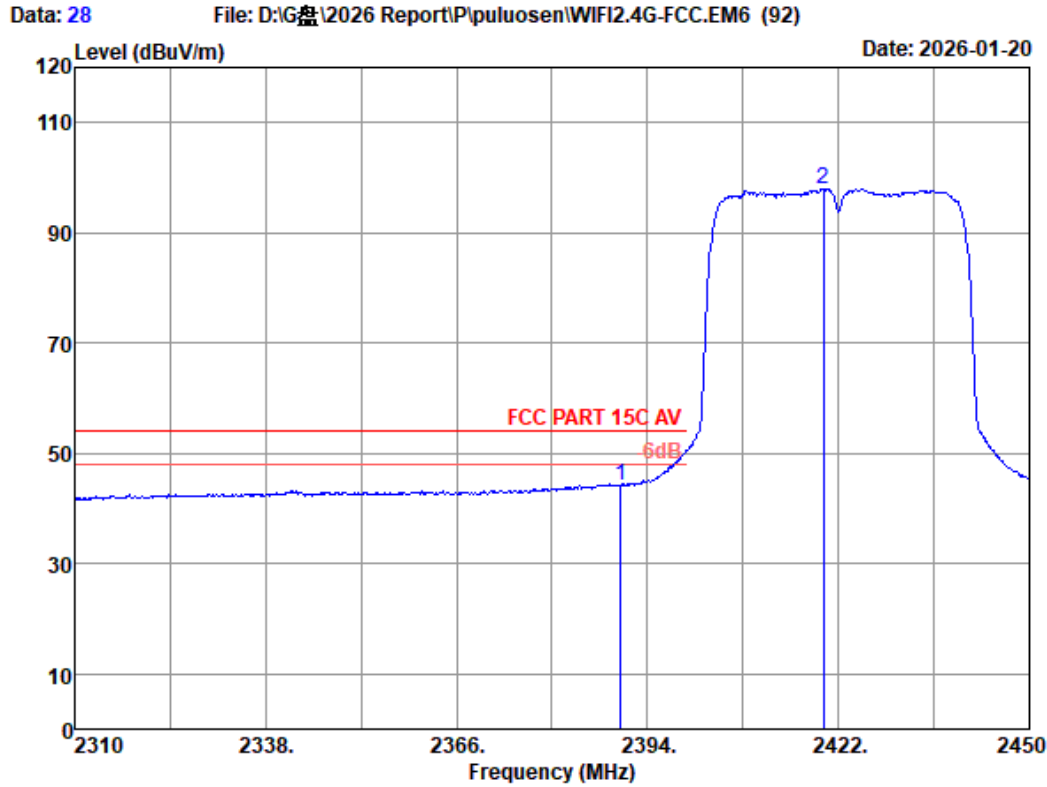
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2389.940	27.86	0.64	32.77	42.67	38.40	54.00	15.60	Average
2	2426.900	27.95	0.64	32.74	85.32	81.17	-----	-----	Average

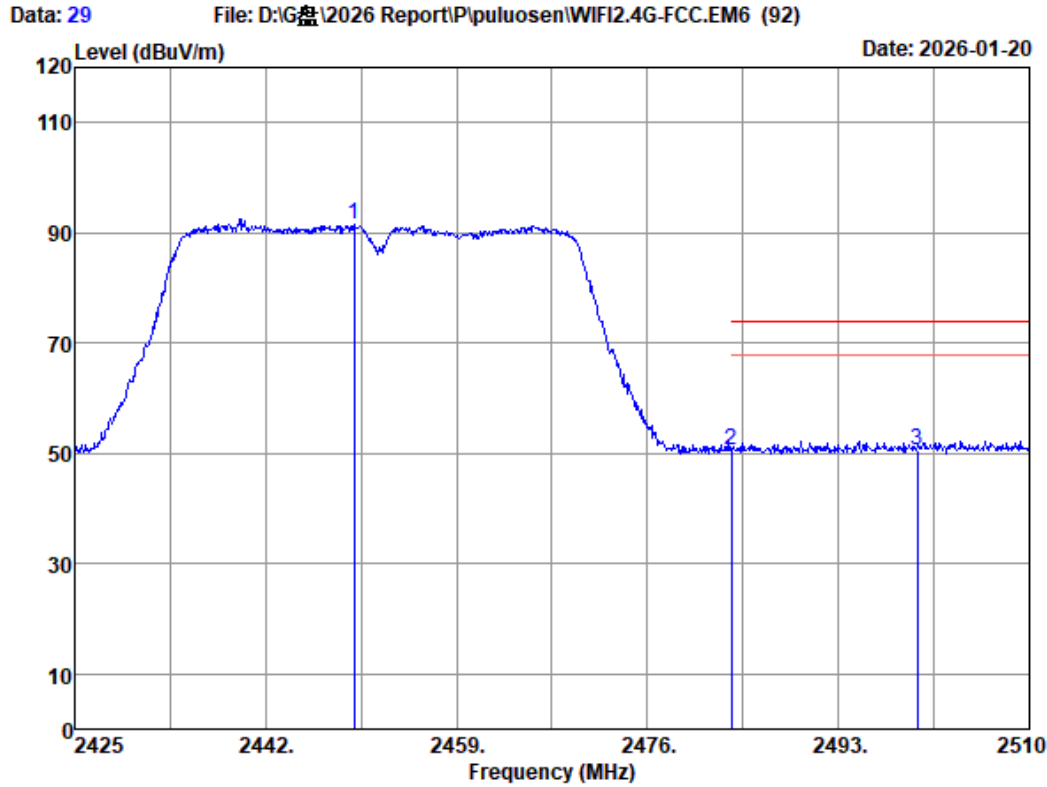
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2390.000	27.86	0.64	32.77	48.53	44.26	54.00	9.74	Average
2	2419.760	27.94	0.64	32.75	102.17	98.00	-----	-----	Average

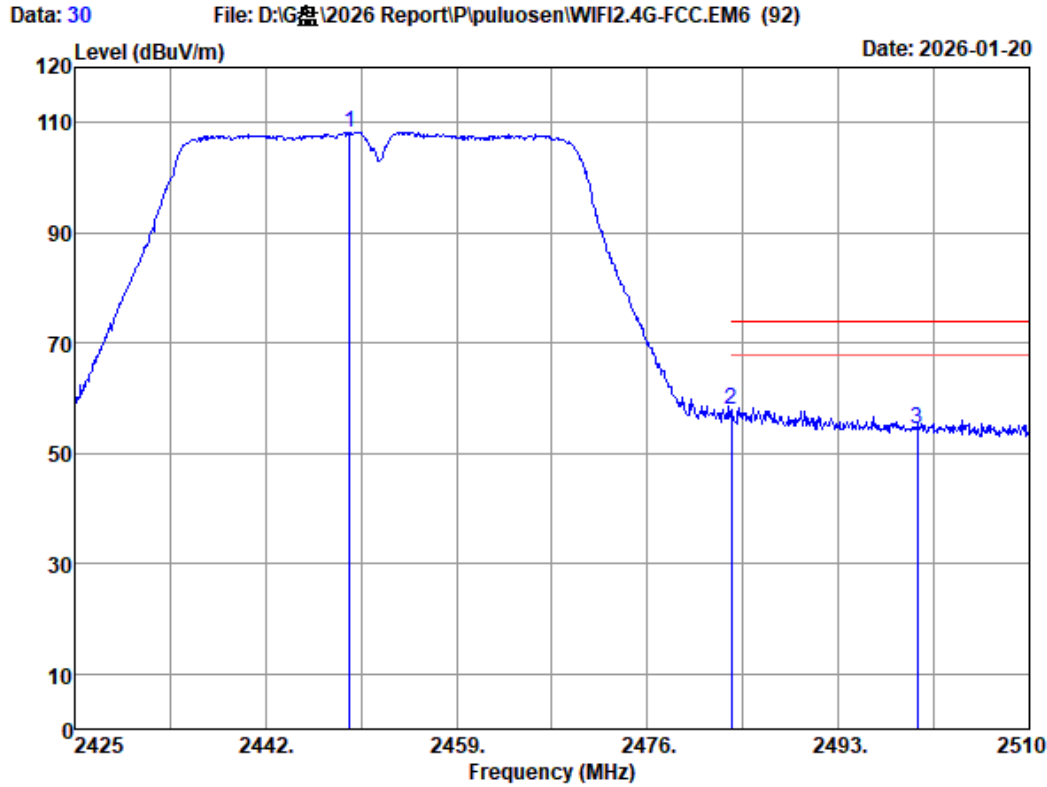
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2449.905	28.00	0.64	32.73	95.50	91.41	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	54.34	50.55	74.00	23.45	Peak
3	2500.000	28.40	0.65	32.70	54.07	50.42	74.00	23.58	Peak

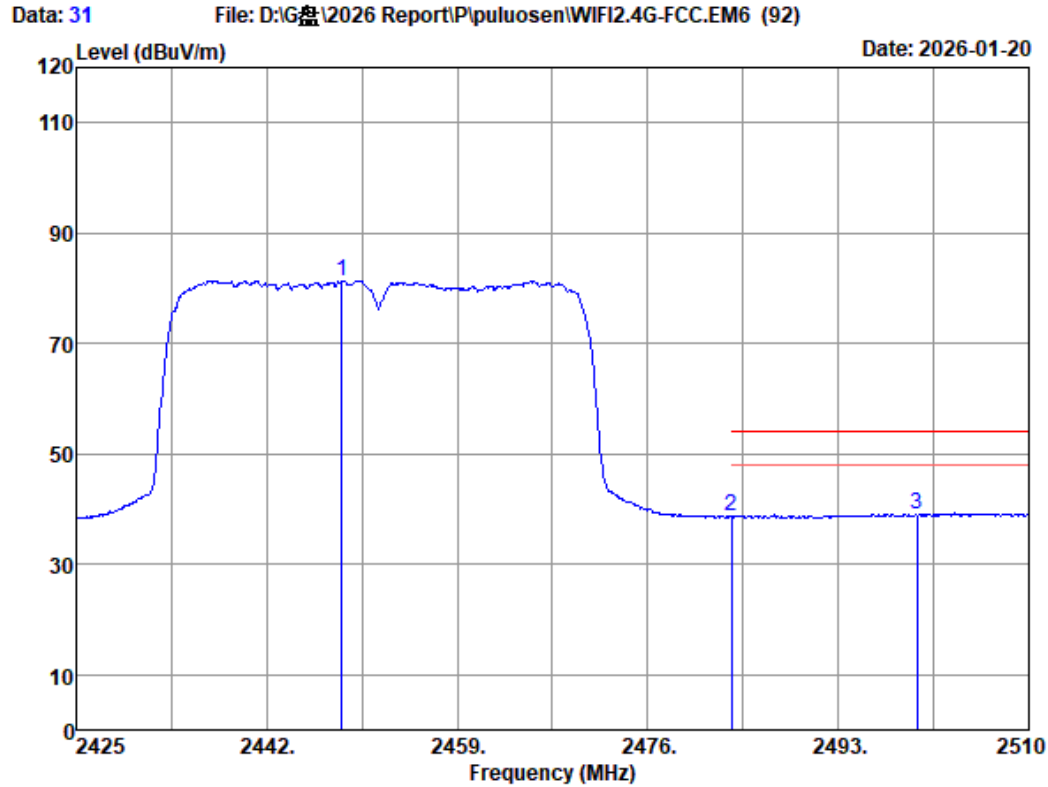
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2449.480	28.00	0.64	32.73	112.33	108.24	-----	-----	Peak
2	2483.500	28.27	0.65	32.71	61.57	57.78	74.00	16.22	Peak
3	2500.000	28.40	0.65	32.70	58.21	54.56	74.00	19.44	Peak

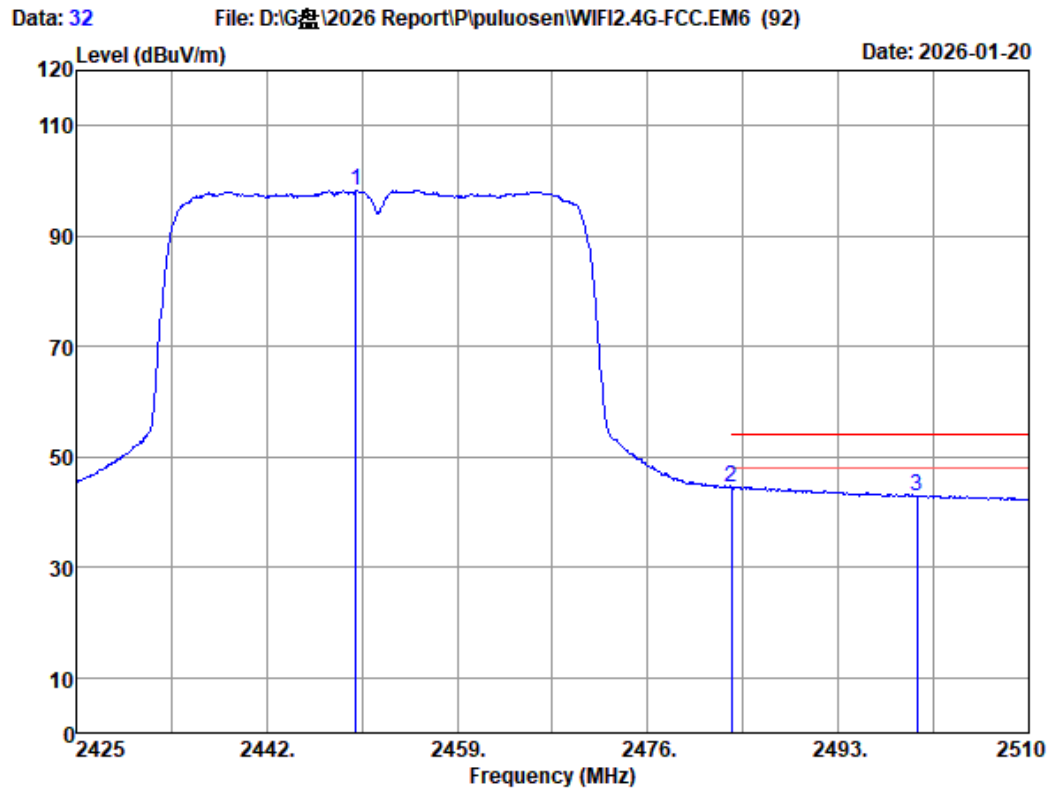
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2448.715	28.00	0.64	32.73	85.50	81.41	-----	-----	Average
2	2483.500	28.27	0.65	32.71	42.37	38.58	54.00	15.42	Average
3	2500.000	28.40	0.65	32.70	42.54	38.89	54.00	15.11	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	2449.990	28.00	0.64	32.73	102.32	98.23	-----	-----	Average
2	2483.500	28.27	0.65	32.71	48.19	44.40	54.00	9.60	Average
3	2500.000	28.40	0.65	32.70	46.40	42.75	54.00	11.25	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported

7. 6dB & 99% Bandwidth Test

7.1.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.2.Test Procedure

Use the test method described in ANSI C63.10 Section 11.8:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., $RBW = 100$ kHz, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

Use the test method described in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

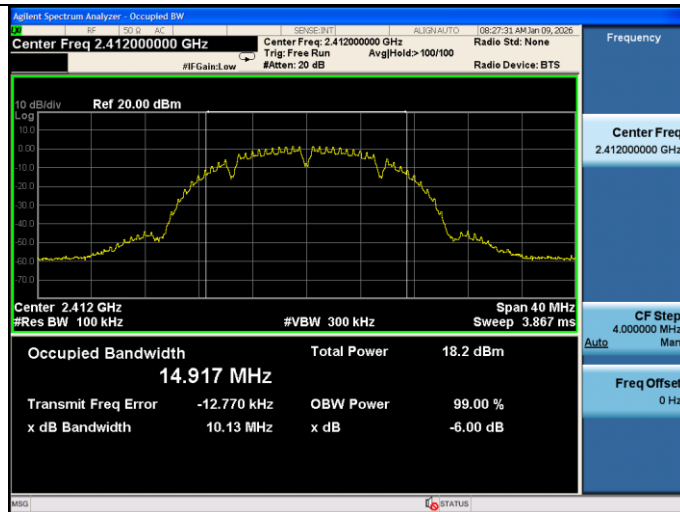
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

7.3.Test Results

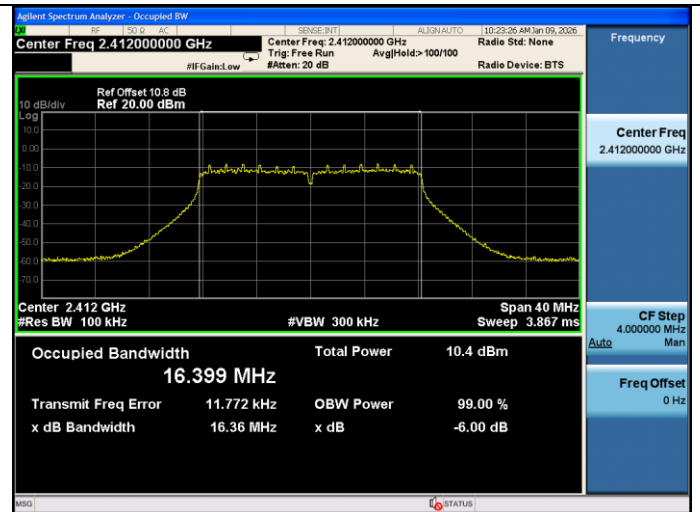
EUT: Desktop 3D Printer		
M/N: Phrozen Sonic LS+ 3D Printer		
Test date: 2026-01-09	Pressure: 102.1±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Carl	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	CH	-6dB Bandwidth (MHz)	Limit (KHz)
11b	CH1	10.13	≧ 500
	CH6	10.14	
	CH11	10.13	
11g	CH1	16.36	≧ 500
	CH6	16.34	
	CH11	16.34	
11n HT20	CH1	17.09	≧ 500
	CH6	17.08	
	CH11	17.08	
11n HT40	CH3	35.58	≧ 500
	CH6	35.44	
	CH9	35.43	
Conclusion: Pass			

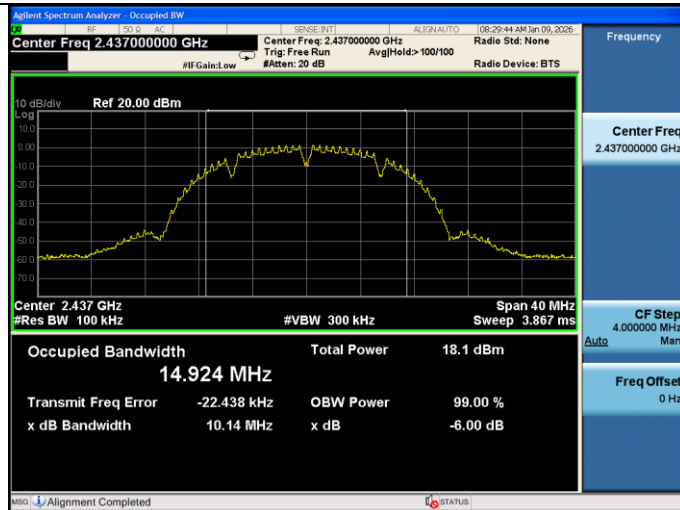
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



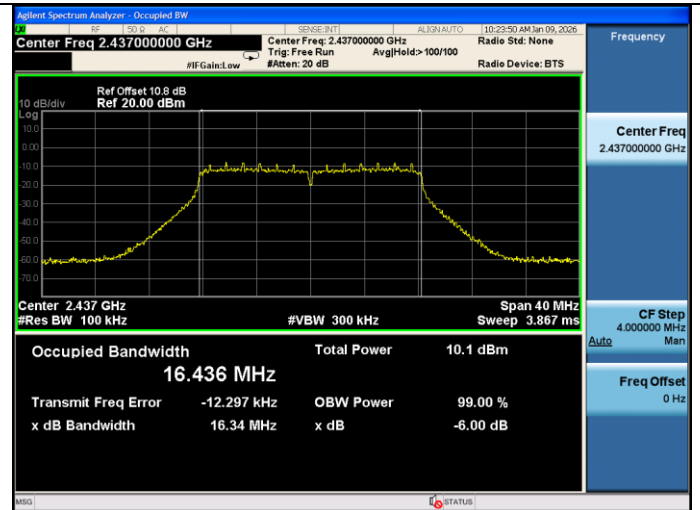
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



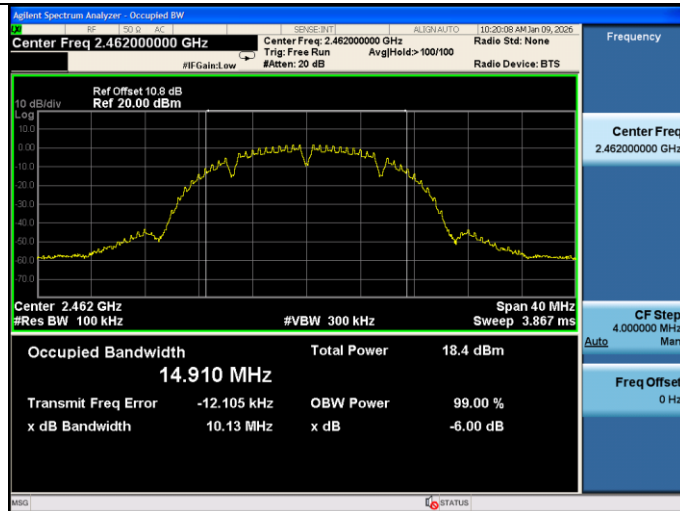
Test CH6: 2437MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2462MHz

