



Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_903MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

13:56:26



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.3200	4.66	14.55	19.21	40.00	-20.79	peak			P	
2	52.9800	5.98	13.83	19.81	40.00	-20.19	peak			P	
3	127.7400	4.91	13.07	17.98	43.50	-25.52	peak			P	
4	151.4400	7.34	14.16	21.50	43.50	-22.00	peak			P	
5 *	387.5400	17.99	17.38	35.37	46.00	-10.63	peak			P	
6	597.6000	10.39	22.82	33.21	46.00	-12.79	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_907.8MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Horizontal**
Distance: 3m
Temperature: 26 °C
Humidity: 54 %RH
Test Engineer: Felix Pang

Radiated Emission Measurement

Test Date: 2024/9/2

14:01:22



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.2800	4.53	13.38	17.91	40.00	-22.09	peak			P	
2	46.2000	5.25	14.31	19.56	40.00	-20.44	peak			P	
3	87.7800	5.04	9.67	14.71	40.00	-25.29	peak			P	
4	150.1799	6.95	14.13	21.08	43.50	-22.42	peak			P	
5	306.4800	8.63	15.09	23.72	46.00	-22.28	peak			P	
6 *	590.2199	10.50	22.62	33.12	46.00	-12.88	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_907.8MHz
Test Voltage: DC 3.6V

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang

Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:16:51



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	38.1600	3.71	14.30	18.01	40.00	-21.99	peak			P	
2	58.3200	4.91	13.28	18.19	40.00	-21.81	peak			P	
3	118.2600	5.02	12.38	17.40	43.50	-26.10	peak			P	
4	178.3200	6.84	12.57	19.41	43.50	-24.09	peak			P	
5	257.6400	7.76	13.54	21.30	46.00	-24.70	peak			P	
6 *	599.8200	9.83	22.88	32.71	46.00	-13.29	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_914.2MHz
Test Voltage: DC 3.6V

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang

Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:20:54



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	49.5000	5.36	14.17	19.53	40.00	-20.47	peak			P	
2	70.3200	6.29	12.00	18.29	40.00	-21.71	peak			P	
3	129.4200	5.67	13.18	18.85	43.50	-24.65	peak			P	
4	166.2000	7.98	13.75	21.73	43.50	-21.77	peak			P	
5	267.9000	7.14	13.98	21.12	46.00	-24.88	peak			P	
6 *	595.5000	10.88	22.77	33.65	46.00	-12.35	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_914.2MHz
Test Voltage: DC 3.6V

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang

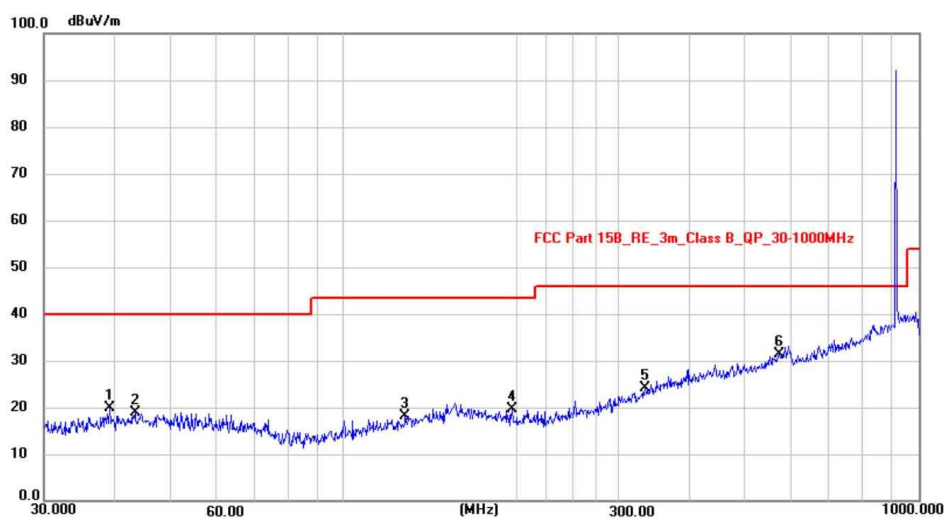
Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:26:29



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.1200	5.46	14.45	19.91	40.00	-20.09	peak			P	
2	43.3200	4.47	14.43	18.90	40.00	-21.10	peak			P	
3	127.9800	5.11	13.09	18.20	43.50	-25.30	peak			P	
4	195.9600	8.18	11.40	19.58	43.50	-23.92	peak			P	
5	333.7800	8.34	15.85	24.19	46.00	-21.81	peak			P	
6 *	573.4200	9.32	22.16	31.48	46.00	-14.52	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

Above1GHz



Shenzhen PSI Testing Co., Ltd.
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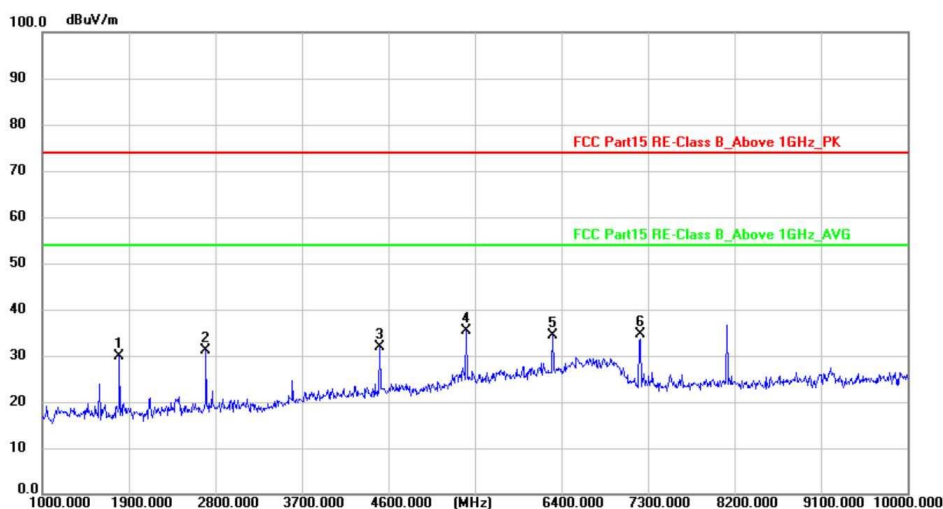
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: FSK 125K_SF7_902.3MHz
Test Voltage: DC 3.6V
Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:35:47



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1804.375	57.24	-27.36	29.88	74.00	-44.12	peak			P	
2	2706.625	56.26	-25.15	31.11	74.00	-42.89	peak			P	
3	4511.125	52.64	-20.74	31.90	74.00	-42.10	peak			P	
4 *	5414.500	53.74	-18.46	35.28	74.00	-38.72	peak			P	
5	6316.750	50.33	-16.00	34.33	74.00	-39.67	peak			P	
6	7219.000	48.49	-13.89	34.60	74.00	-39.40	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



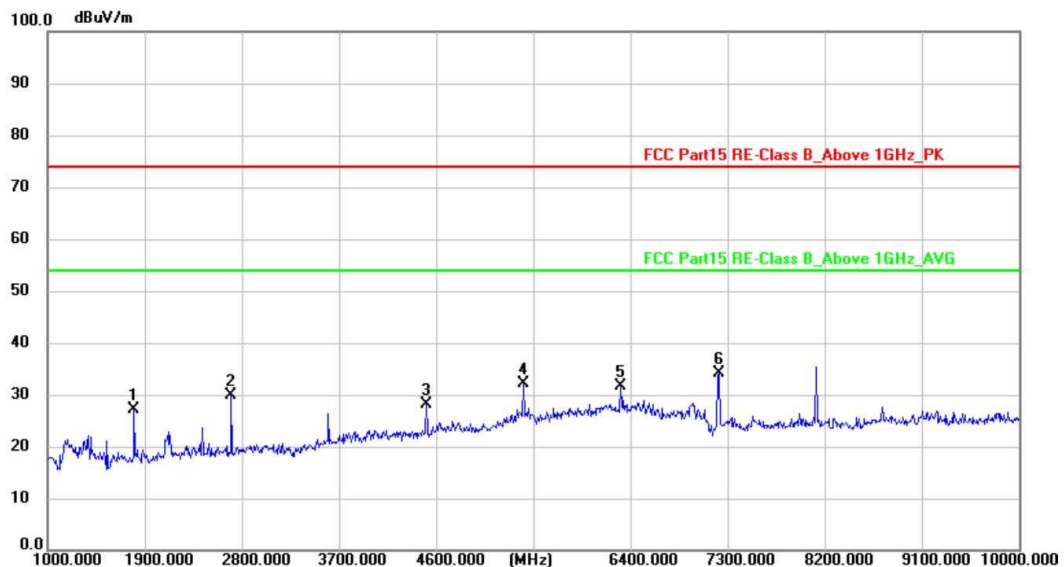
Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: WIRELESS BLE/LORA TEMPERATURE Distance: 3m Humidity: 54 %RH
M/N: 7911N-EX-A-A0 Test Engineer: Felix Pang
Test Mode: FSK 125K_SF7_902.3MHz
Test Voltage: DC 3.6V
Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:41:56



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1804.375	54.42	-27.36	27.06	74.00	-46.94	peak			P	
2	2706.625	54.94	-25.15	29.79	74.00	-44.21	peak			P	
3	4511.125	48.79	-20.74	28.05	74.00	-45.95	peak			P	
4	5413.375	50.48	-18.46	32.02	74.00	-41.98	peak			P	
5	6315.625	47.67	-16.01	31.66	74.00	-42.34	peak			P	
6 *	7219.000	47.91	-13.89	34.02	74.00	-39.98	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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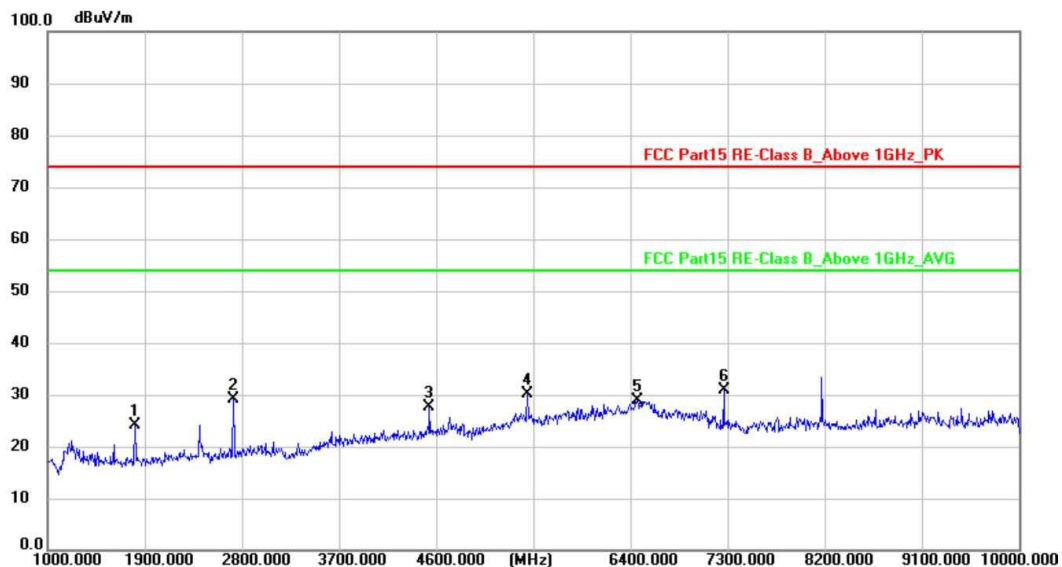
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: FSK 125K_SF7_908.5MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

14:46:34



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1816.750	51.60	-27.36	24.24	74.00	-49.76	peak			P	
2	2725.750	54.26	-25.10	29.16	74.00	-44.84	peak			P	
3	4542.625	48.38	-20.66	27.72	74.00	-46.28	peak			P	
4	5451.625	48.58	-18.35	30.23	74.00	-43.77	peak			P	
5	6463.000	44.37	-15.59	28.78	74.00	-45.22	peak			P	
6 *	7268.500	44.75	-13.86	30.89	74.00	-43.11	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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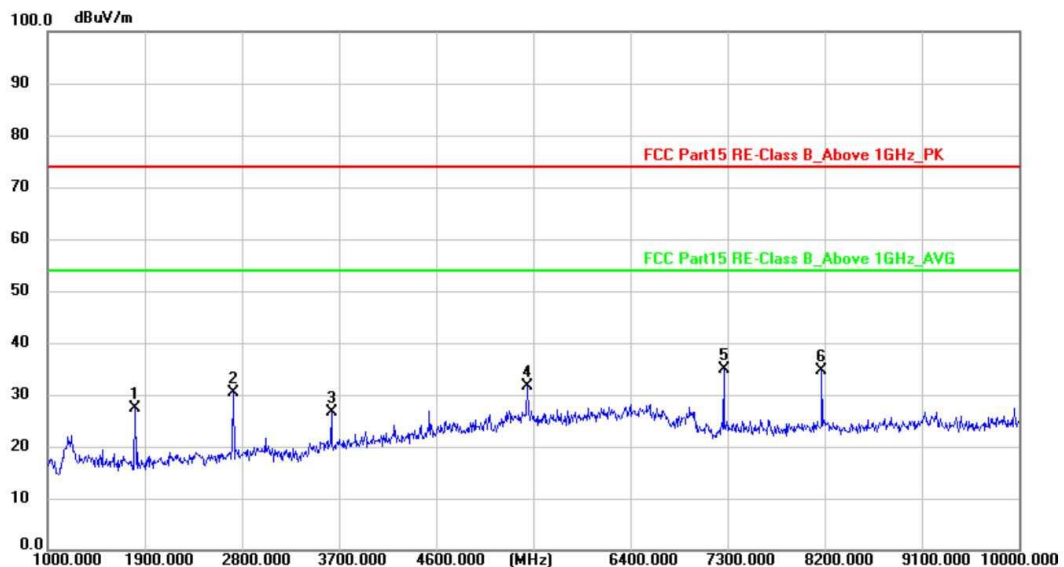
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: FSK 125K_SF7_908.5MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

14:51:08



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1816.750	54.77	-27.36	27.41	74.00	-46.59	peak			P	
2	2725.750	55.42	-25.10	30.32	74.00	-43.68	peak			P	
3	3633.625	49.42	-22.81	26.61	74.00	-47.39	peak			P	
4	5450.500	49.53	-17.80	31.73	74.00	-42.27	peak			P	
5 *	7268.500	48.67	-13.86	34.81	74.00	-39.19	peak			P	
6	8177.500	47.67	-13.07	34.60	74.00	-39.40	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: FSK 125K_SF7_914.9MHz
Test Voltage: DC 3.6V

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix Pang

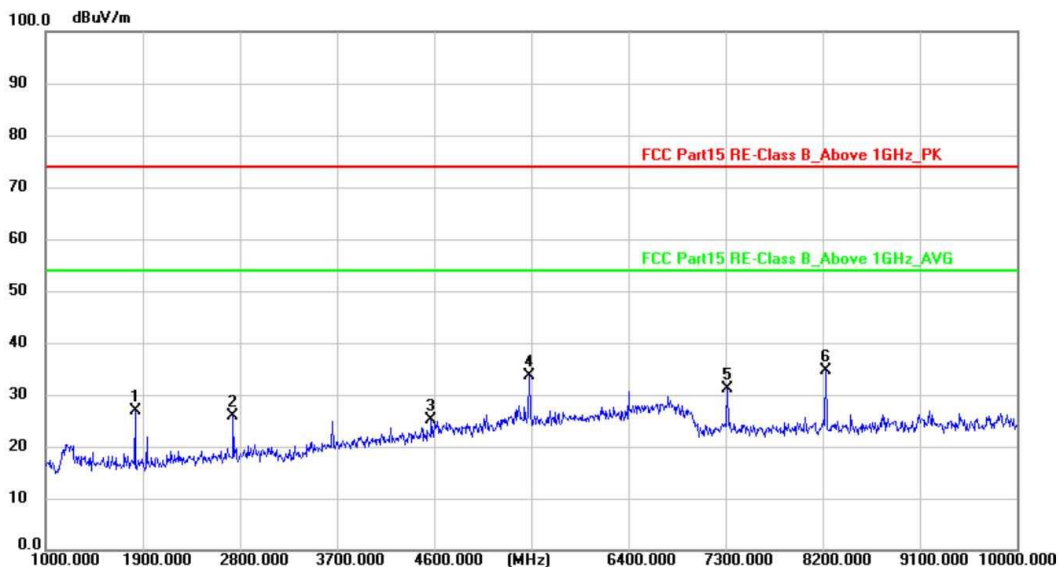
Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

14:55:56



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1829.125	54.29	-27.36	26.93	74.00	-47.07	peak			P	
2	2744.875	50.93	-25.03	25.90	74.00	-48.10	peak			P	
3	4574.125	45.22	-20.00	25.22	74.00	-48.78	peak			P	
4	5488.750	51.44	-17.74	33.70	74.00	-40.30	peak			P	
5	7319.125	44.84	-13.81	31.03	74.00	-42.97	peak			P	
6 *	8233.750	47.74	-13.02	34.72	74.00	-39.28	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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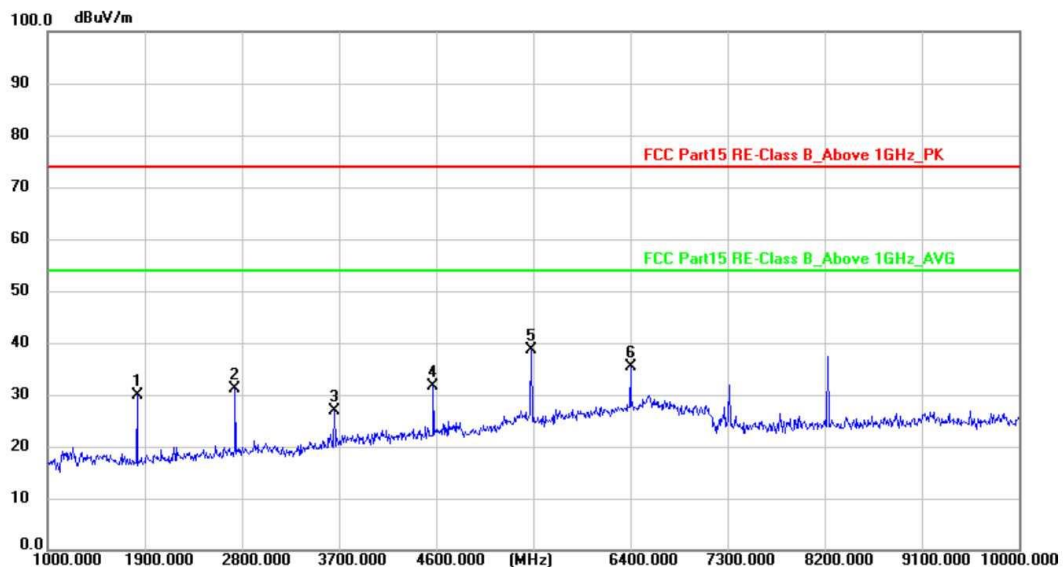
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: FSK 125K_SF7_914.9MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

15:02:06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1829.125	57.26	-27.36	29.90	74.00	-44.10	peak			P	
2	2744.875	56.10	-25.03	31.07	74.00	-42.93	peak			P	
3	3659.500	49.70	-22.75	26.95	74.00	-47.05	peak			P	
4	4574.125	52.16	-20.58	31.58	74.00	-42.42	peak			P	
5 *	5488.750	56.91	-18.25	38.66	74.00	-35.34	peak			P	
6	6404.500	51.02	-15.76	35.26	74.00	-38.74	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_903MHz
Test Voltage: DC 3.6V

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang

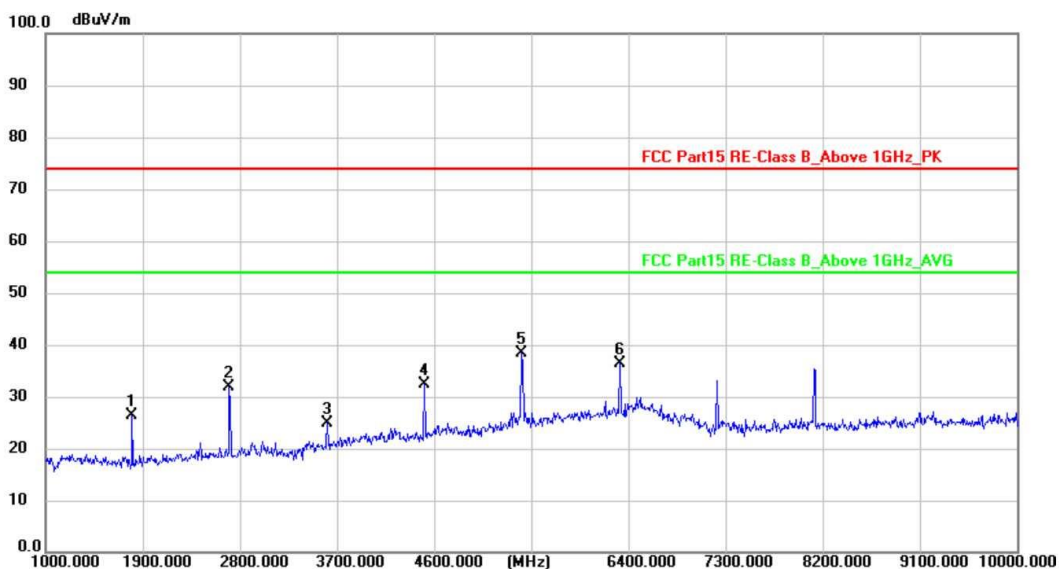
Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

15:20:07



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1805.500	53.82	-27.36	26.46	74.00	-47.54	peak	150	254	P	
2	2708.875	57.08	-25.14	31.94	74.00	-42.06	peak	150	254	P	
3	3612.250	47.82	-22.86	24.96	74.00	-49.04	peak	150	254	P	
4	4515.625	53.17	-20.73	32.44	74.00	-41.56	peak	150	254	P	
5 *	5417.875	56.89	-18.44	38.45	74.00	-35.55	peak	150	254	P	
6	6322.375	52.33	-15.98	36.35	74.00	-37.65	peak	150	254	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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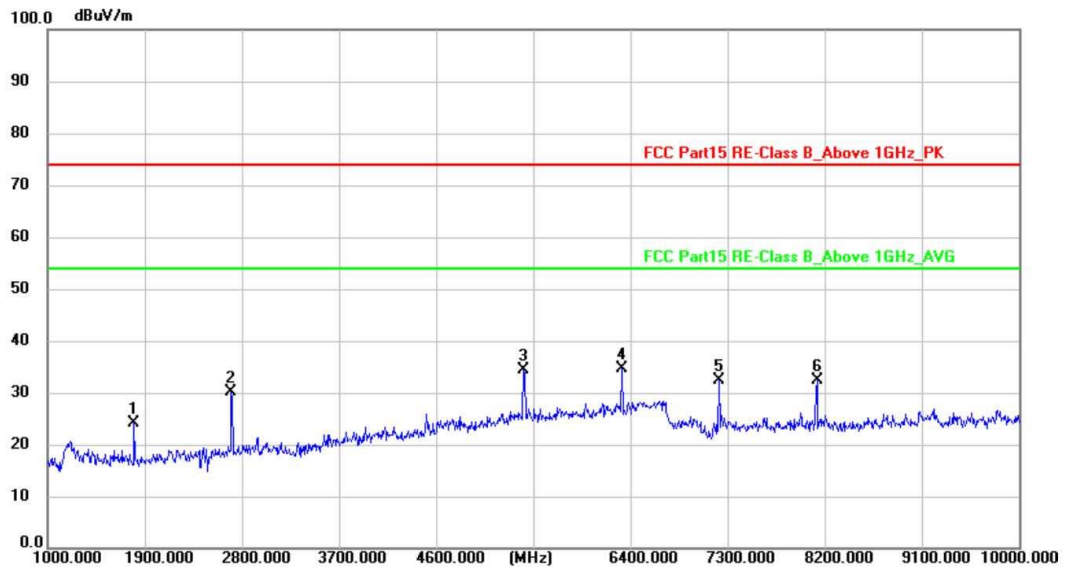
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_903MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

15:25:53



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1805.500	51.54	-27.36	24.18	74.00	-49.82	peak	150	275	P	
2	2708.875	55.23	-25.14	30.09	74.00	-43.91	peak	150	275	P	
3	5416.750	52.15	-17.86	34.29	74.00	-39.71	peak	150	275	P	
4 *	6321.250	50.71	-15.99	34.72	74.00	-39.28	peak	150	275	P	
5	7224.625	46.22	-13.89	32.33	74.00	-41.67	peak	150	275	P	
6	8128.000	45.37	-13.11	32.26	74.00	-41.74	peak	150	275	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_907.8MHz
Test Voltage: DC 3.6V

Polarization: **Horizontal**
Distance: 3m

Temperature: 26 °C
Humidity: 54 %RH

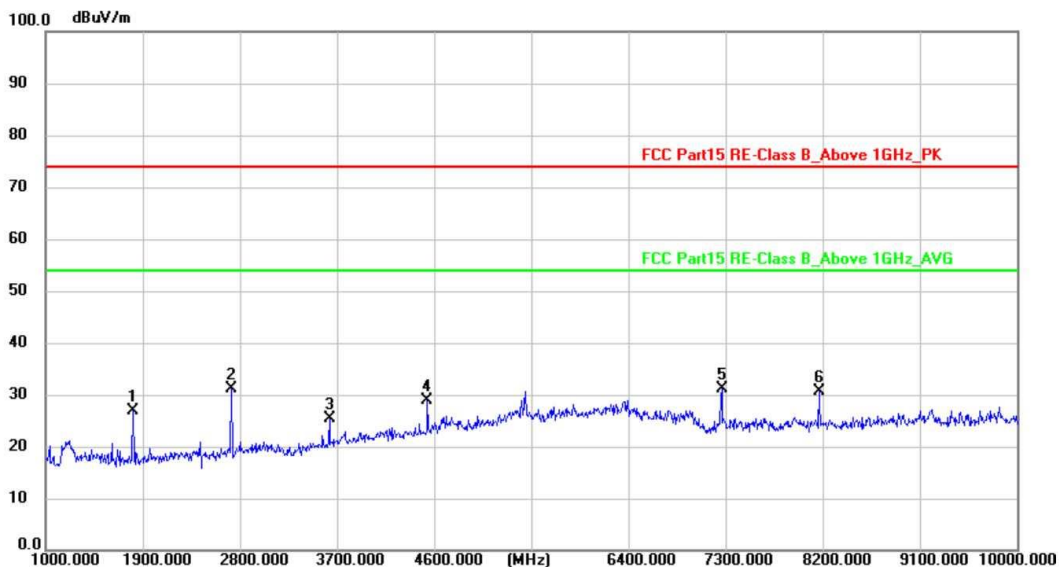
Test Engineer: Felix Pang

Note:

Radiated Emission Measurement

Test Date: 2024/9/2

15:30:15



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1815.625	54.19	-27.35	26.84	74.00	-47.16	peak			P	
2 *	2723.500	56.31	-25.10	31.21	74.00	-42.79	peak			P	
3	3631.375	48.25	-22.81	25.44	74.00	-48.56	peak			P	
4	4540.375	48.98	-20.13	28.85	74.00	-45.15	peak			P	
5	7264.000	44.96	-13.86	31.10	74.00	-42.90	peak			P	
6	8169.625	43.76	-13.07	30.69	74.00	-43.31	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

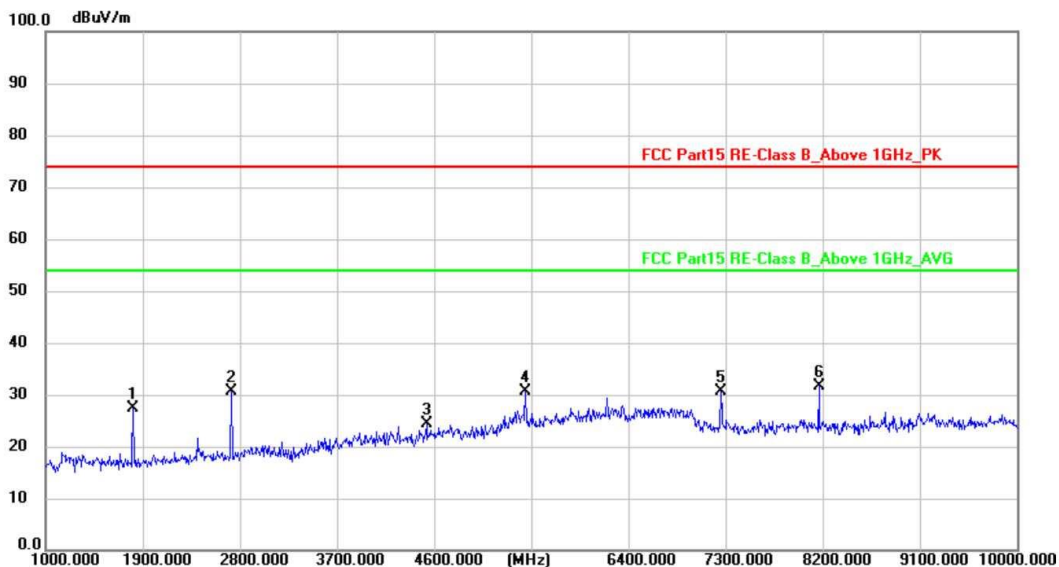


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: WIRELESS BLE/LORA TEMPERATURE Distance: 3m Humidity: 54 %RH
M/N: 7911N-EX-A-A0 Test Engineer: Felix Pang
Test Mode: Lora DTS 500K_SF8_907.8MHz
Test Voltage: DC 3.6V
Note:

Radiated Emission Measurement

Test Date: 2024/9/2 15:35:40



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1814.500	54.73	-27.36	27.37	74.00	-46.63	peak			P	
2	2722.375	55.72	-25.11	30.61	74.00	-43.39	peak			P	
3	4534.750	45.16	-20.68	24.48	74.00	-49.52	peak			P	
4	5448.250	48.96	-18.37	30.59	74.00	-43.41	peak			P	
5	7261.750	44.43	-13.86	30.57	74.00	-43.43	peak			P	
6 *	8170.750	44.83	-13.08	31.75	74.00	-42.25	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

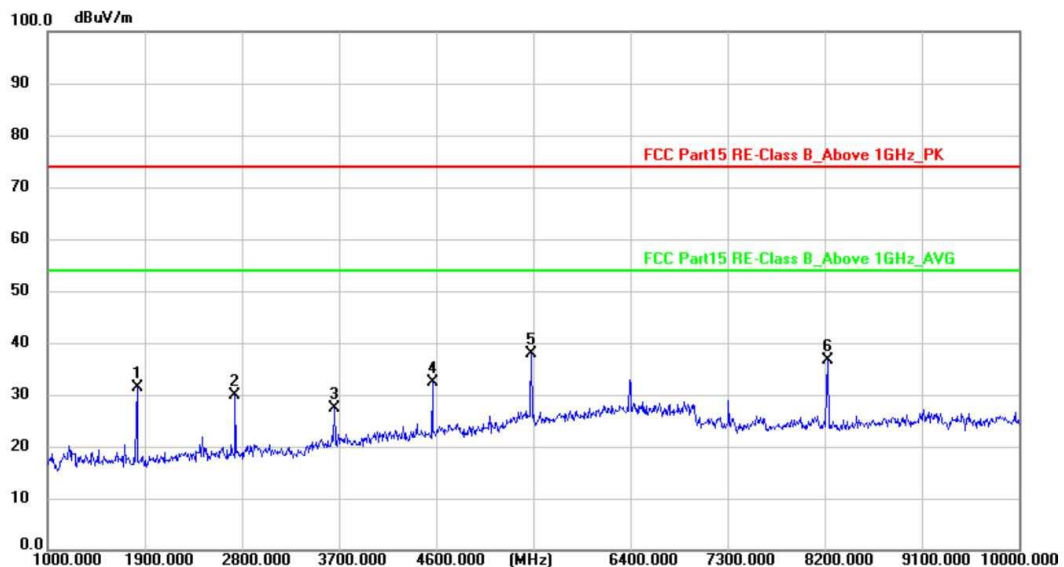
Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_914.2MHz
Test Voltage: DC 3.6V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/2

15:41:03



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1828.000	58.71	-27.36	31.35	74.00	-42.65	peak			P	
2	2742.625	55.04	-25.04	30.00	74.00	-44.00	peak			P	
3	3656.125	50.23	-22.76	27.47	74.00	-46.53	peak			P	
4	4570.750	52.96	-20.60	32.36	74.00	-41.64	peak			P	
5 *	5484.250	56.03	-18.26	37.77	74.00	-36.23	peak			P	
6	8228.125	49.73	-13.02	36.71	74.00	-37.29	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



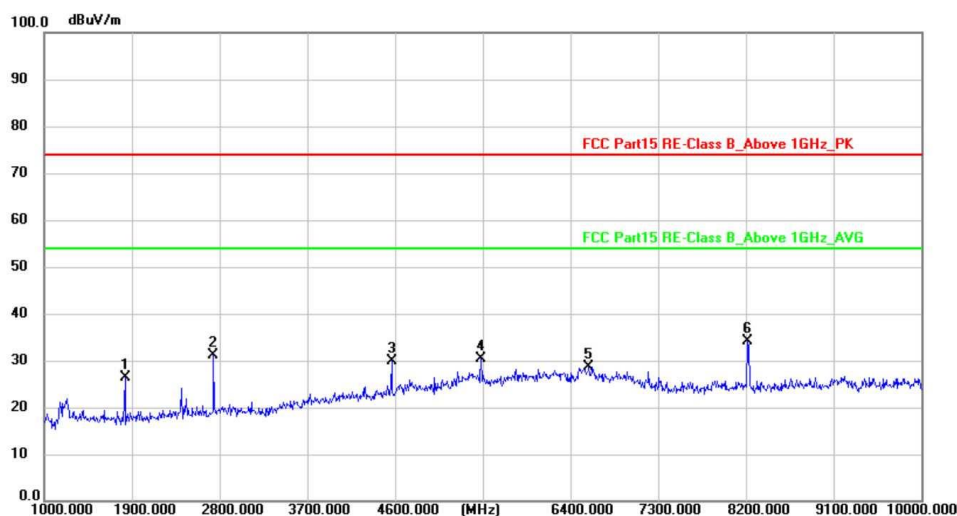
Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: WIRELESS BLE/LORA TEMPERATURE
M/N: 7911N-EX-A-A0
Test Mode: Lora DTS 500K_SF8_914.2MHz
Test Voltage: DC 3.6V
Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix Pang
Temperature: 26 °C
Humidity: 54 %RH

Note:

Radiated Emission Measurement

Test Date: 2024/9/2 15:50:50



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1828.000	53.83	-27.36	26.47	74.00	-47.53	peak			P	
2	2742.625	56.17	-25.04	31.13	74.00	-42.87	peak			P	
3	4570.750	49.82	-20.03	29.79	74.00	-44.21	peak			P	
4	5484.250	48.07	-17.75	30.32	74.00	-43.68	peak			P	
5	6592.375	43.75	-15.23	28.52	74.00	-45.48	peak			P	
6 *	8225.875	47.22	-13.02	34.20	74.00	-39.80	peak			P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit