

Appendix B: Test Results of 2.4GHz Wi-Fi

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Appendix B.1: Test Results of Radiated Spurious Emissions

Note 1: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Note 2: The highest emissions are the fundamental waves.

Note 3: All modes and ports tested, only the worst-case reported.

30MHz - 1GHz

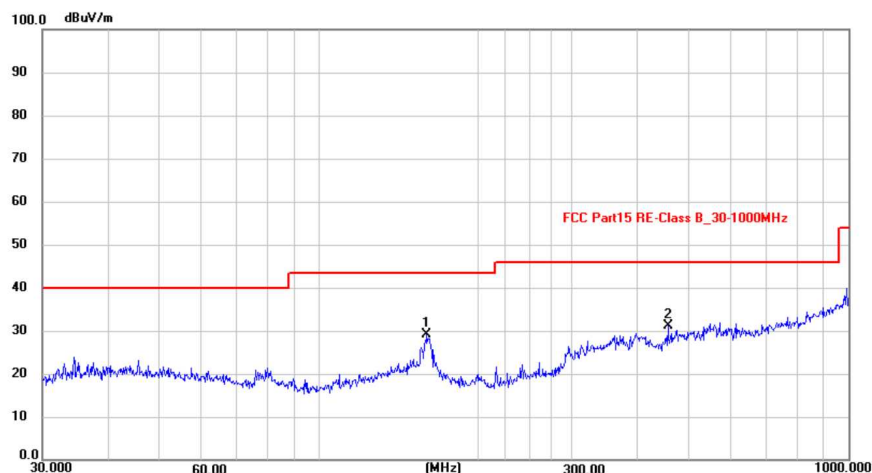


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: b 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 8:40:28



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 *	159.7844	15.80	13.26	29.06	43.50	-14.44	peak	100	147	P	
2	455.9058	13.83	17.37	31.20	46.00	-14.80	peak	100	92	P	

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

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Engineer Signature:

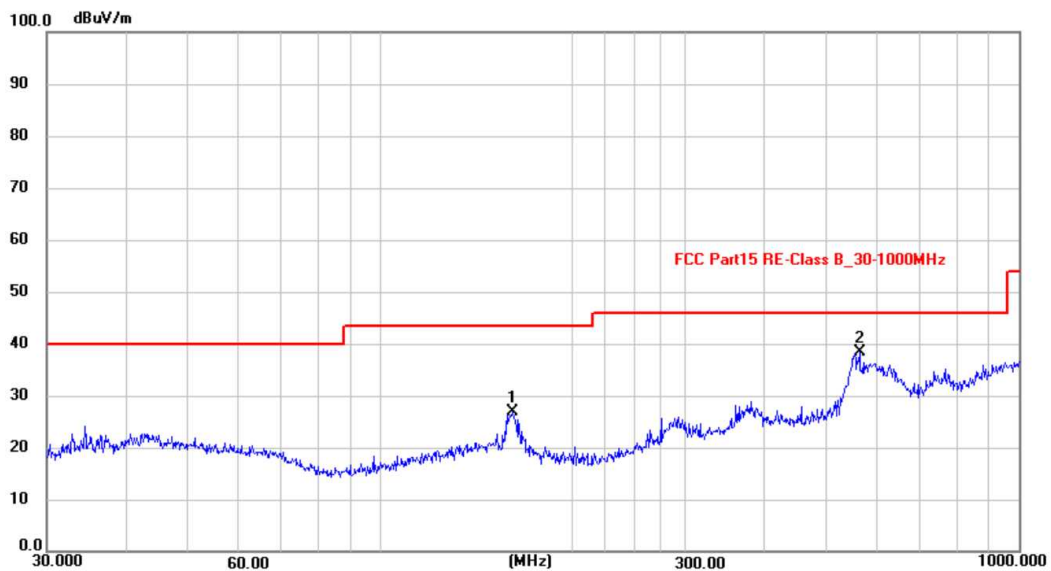


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: b 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 8:45:27



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	160.9090	13.60	13.17	26.77	43.50	-16.73	peak	200	95	P	
2 *	562.6623	18.66	19.79	38.45	46.00	-7.55	peak	200	257	P	

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

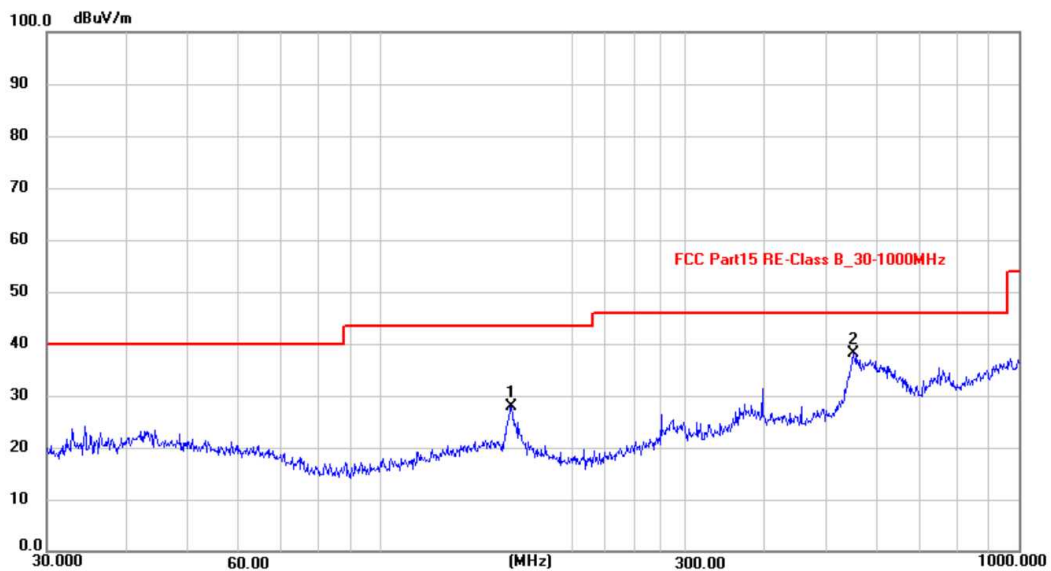


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: b 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 8:50:48



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	160.3456	14.74	13.23	27.97	43.50	-15.53	peak	200	154	P	
2 *	550.9480	18.65	19.51	38.16	46.00	-7.84	peak	200	76	P	

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

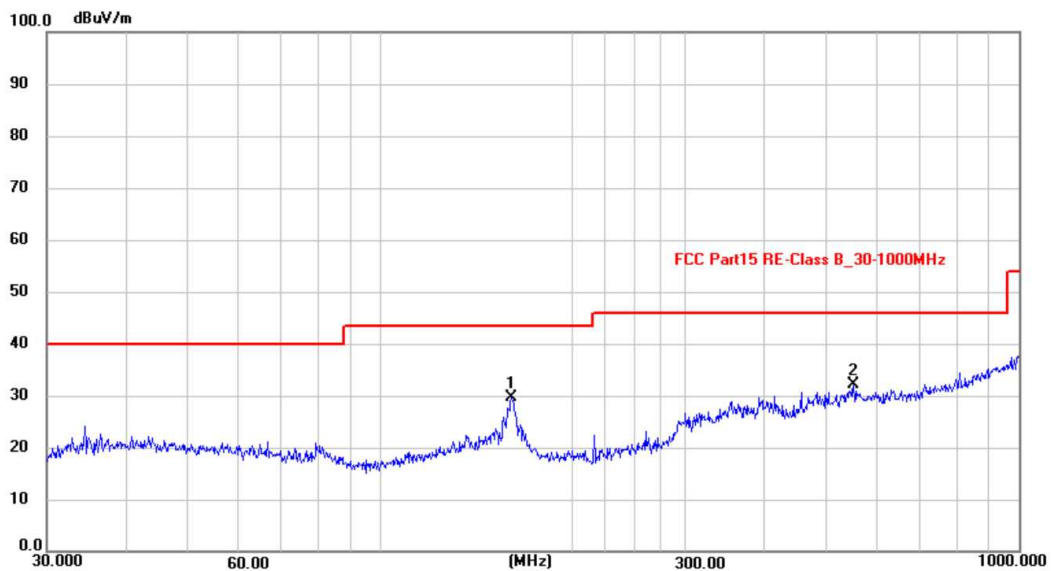


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: b 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 8:55:20



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 *	160.3456	16.39	13.23	29.62	43.50	-13.88	peak	100	117	P	
2	550.9480	12.52	19.51	32.03	46.00	-13.97	peak	100	286	P	

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

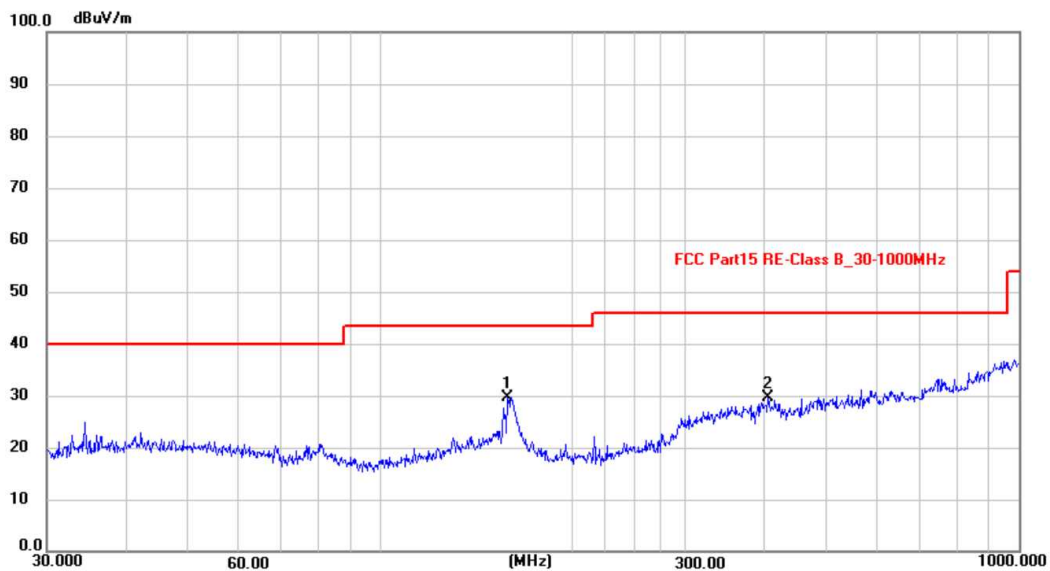


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: g 2412MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:00:40



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 *	158.1123	16.49	13.21	29.70	43.50	-13.80	peak	100	249	P	
2	404.6665	13.38	16.28	29.66	46.00	-16.34	peak	100	186	P	

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

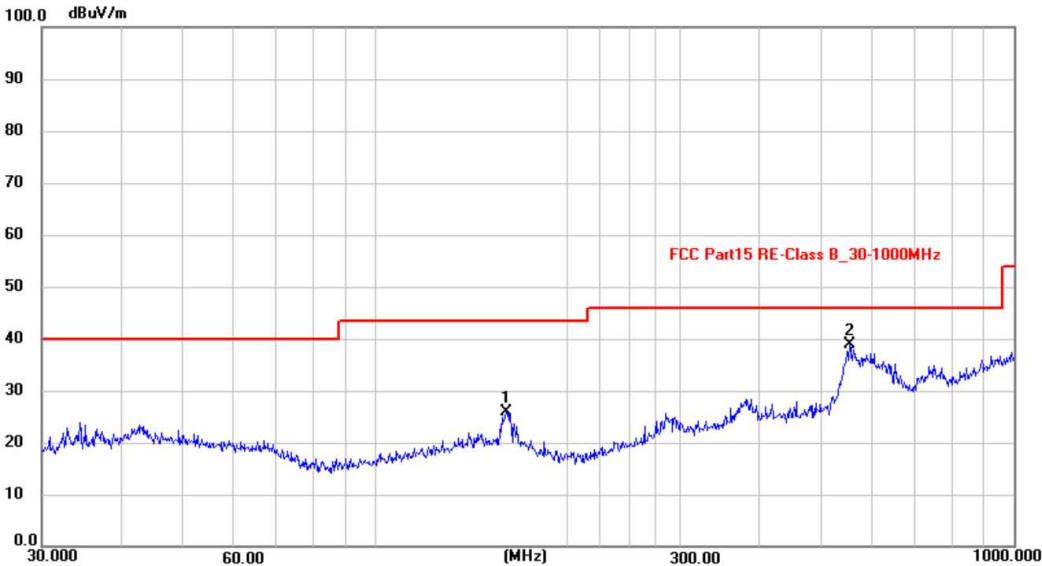


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
 EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
 M/N: EinScan Libre Test Engineer: Felix Pang
 Test Mode: g 2412MHz
 Test Voltage: DC 14.4V
 Note:

Radiated Emission Measurement

Test Date: 2024/9/15 9:05:07



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	160.3456	12.72	13.23	25.95	43.50	-17.55	peak	200	307	P	
2 *	552.8832	19.31	19.56	38.87	46.00	-7.13	peak	200	285	P	

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

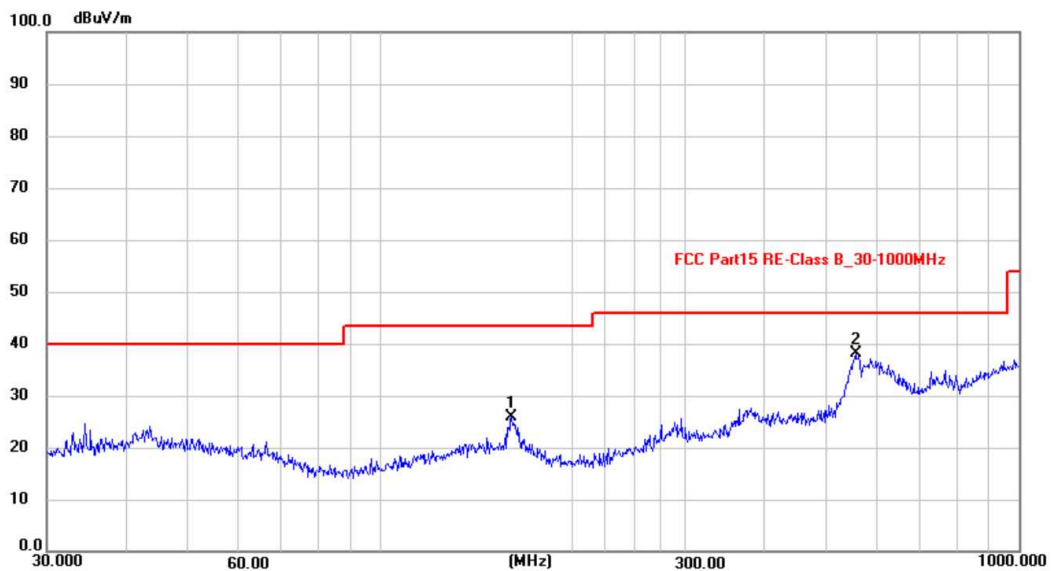


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: g 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:10:24



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	160.3456	12.60	13.23	25.83	43.50	-17.67	peak	200	176	P	
2 *	554.8254	18.53	19.60	38.13	46.00	-7.87	peak	200	244	P	

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

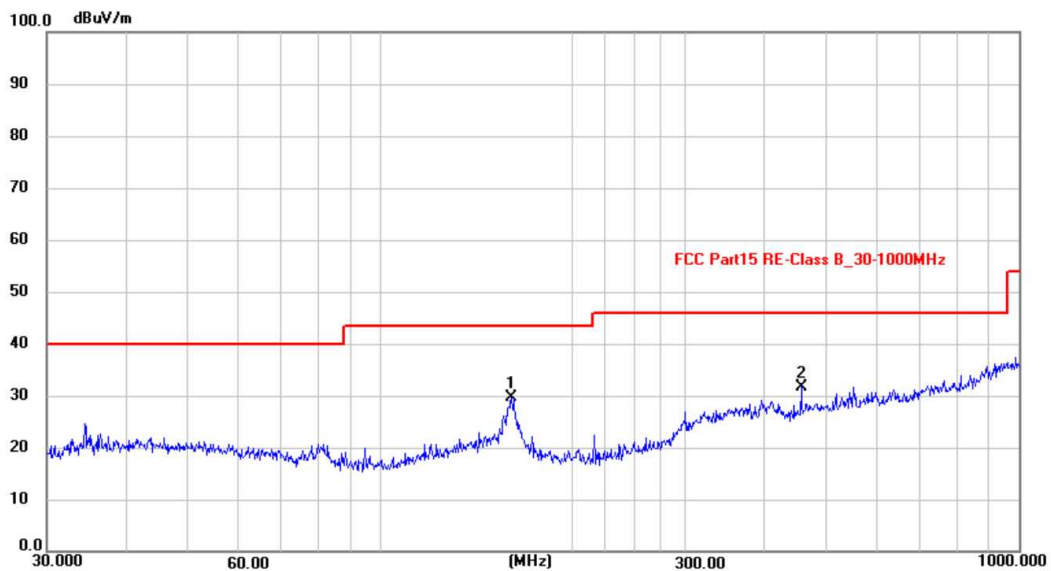


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: g 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:15:52



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 *	160.3456	16.40	13.23	29.63	43.50	-13.87	peak	100	186	P	
2	455.9058	14.25	17.37	31.62	46.00	-14.38	peak	100	275	P	

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

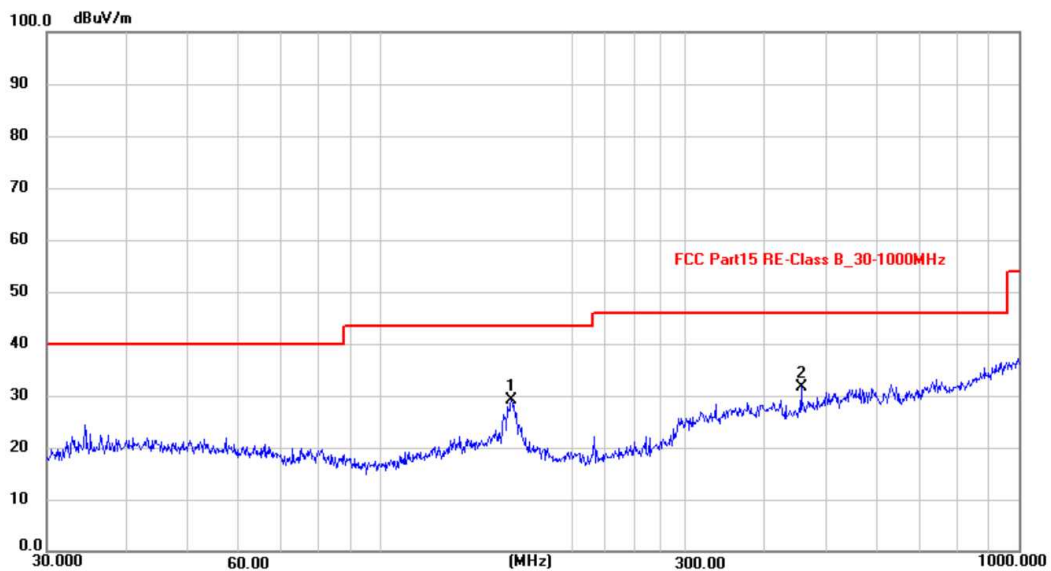


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: g 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:20:13



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 *	160.3456	16.00	13.23	29.23	43.50	-14.27	peak	100	295	P	
2	455.9058	14.31	17.37	31.68	46.00	-14.32	peak	100	300	P	

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

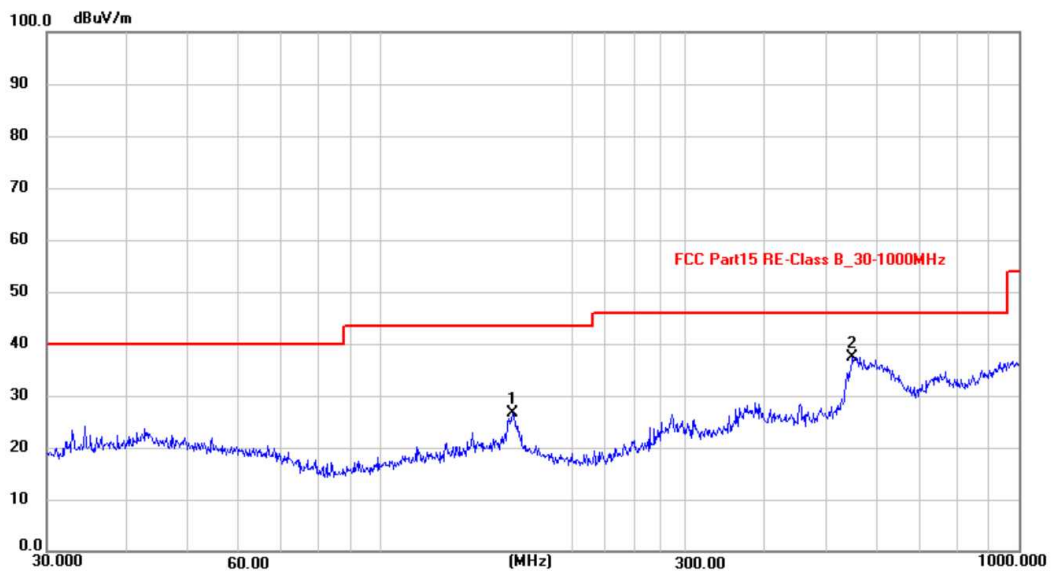


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: g 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:25:43



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	160.9090	13.43	13.17	26.60	43.50	-16.90	peak	200	249	P	
2 *	549.0193	17.96	19.47	37.43	46.00	-8.57	peak	200	176	P	

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

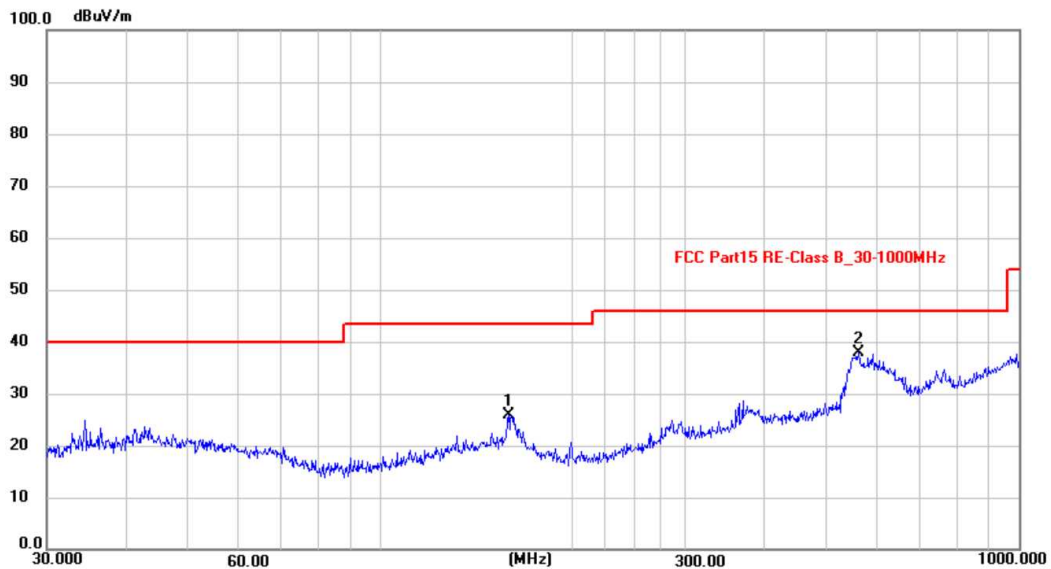


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 2412MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:30:02



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	158.6677	12.63	13.22	25.85	43.50	-17.65	peak	200	118	P	
2 *	560.6928	18.01	19.75	37.76	46.00	-8.24	peak	200	249	P	

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



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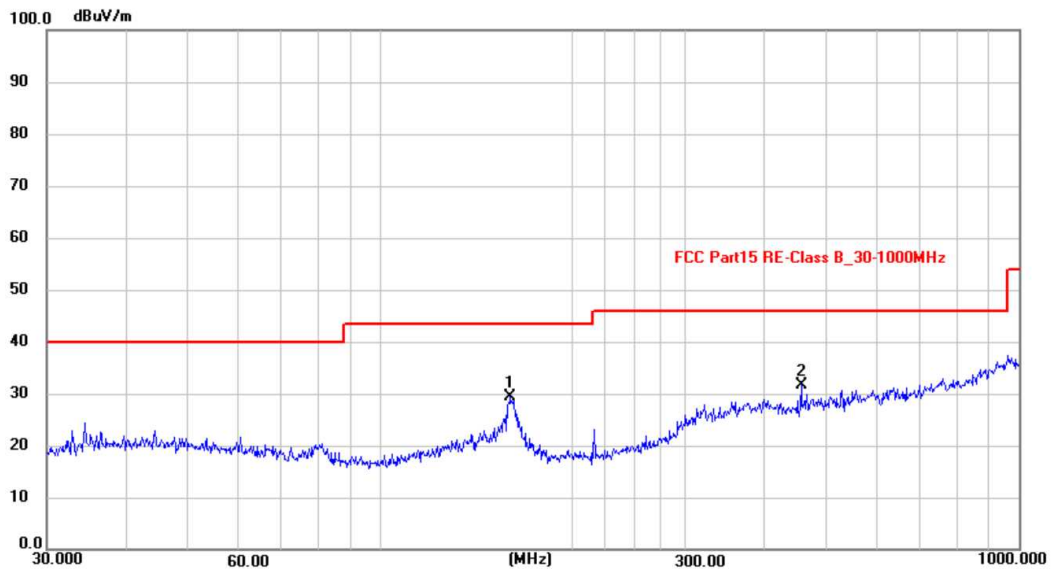
Test Site: PSI EMC Lab-3m Chamber
EUT: 3D Scanner
M/N: EinScan Libre
Test Mode: n20 2412MHz
Test Voltage: DC 14.4V
Note:

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

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/15 9:35:30



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 *	159.7844	16.13	13.26	29.39	43.50	-14.11	peak	100	209	P	
2	455.9058	14.26	17.37	31.63	46.00	-14.37	peak	100	104	P	

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

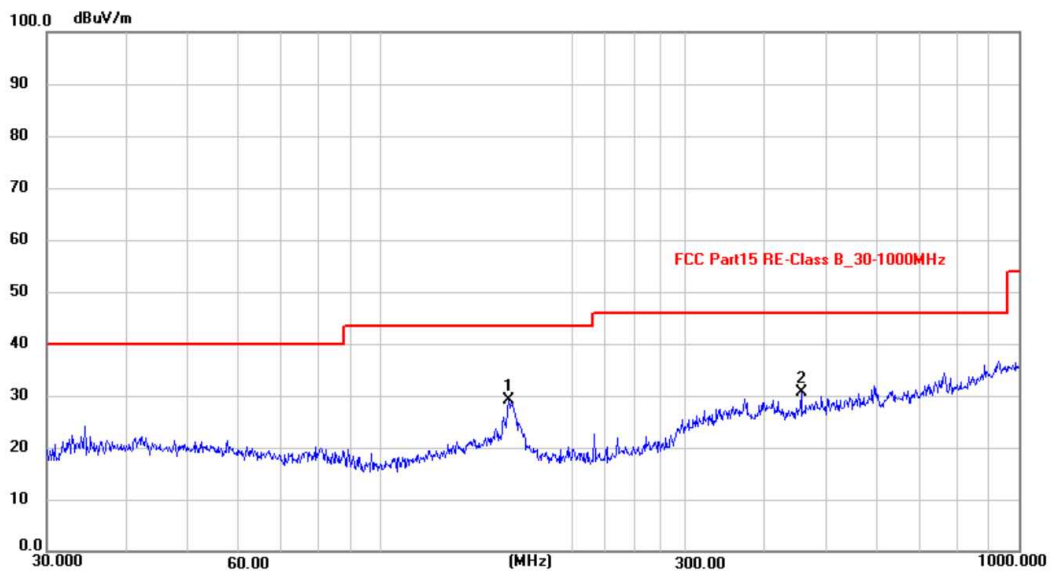


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:40:48



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 *	158.6677	16.03	13.22	29.25	43.50	-14.25	peak	100	249	P	
2	455.9058	13.34	17.37	30.71	46.00	-15.29	peak	100	186	P	

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

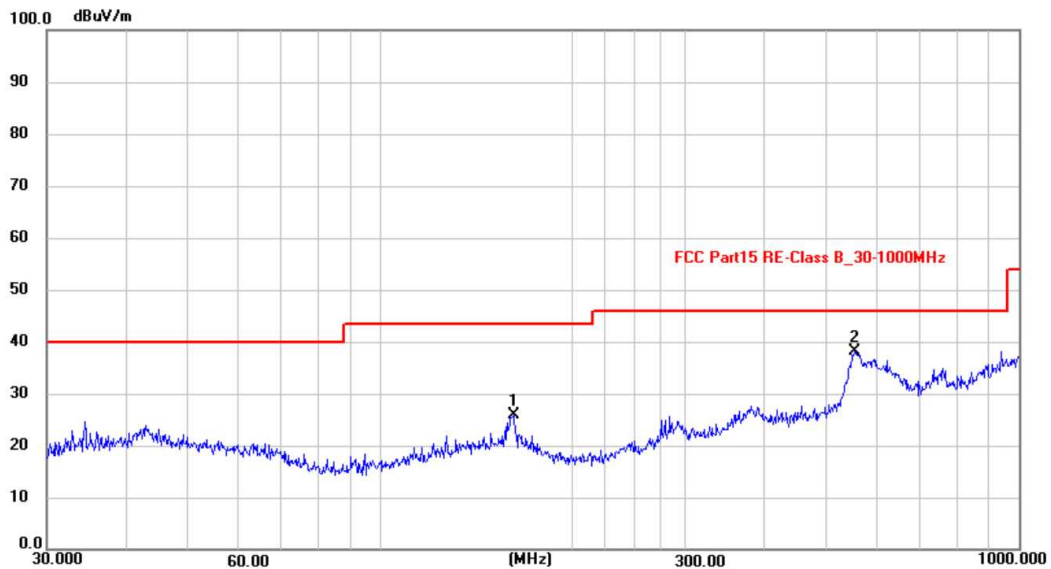


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 2437MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:45:18



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	162.0413	12.72	13.06	25.78	43.50	-17.72	peak	200	271	P	
2 *	552.8832	18.64	19.56	38.20	46.00	-7.80	peak	200	340	P	

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

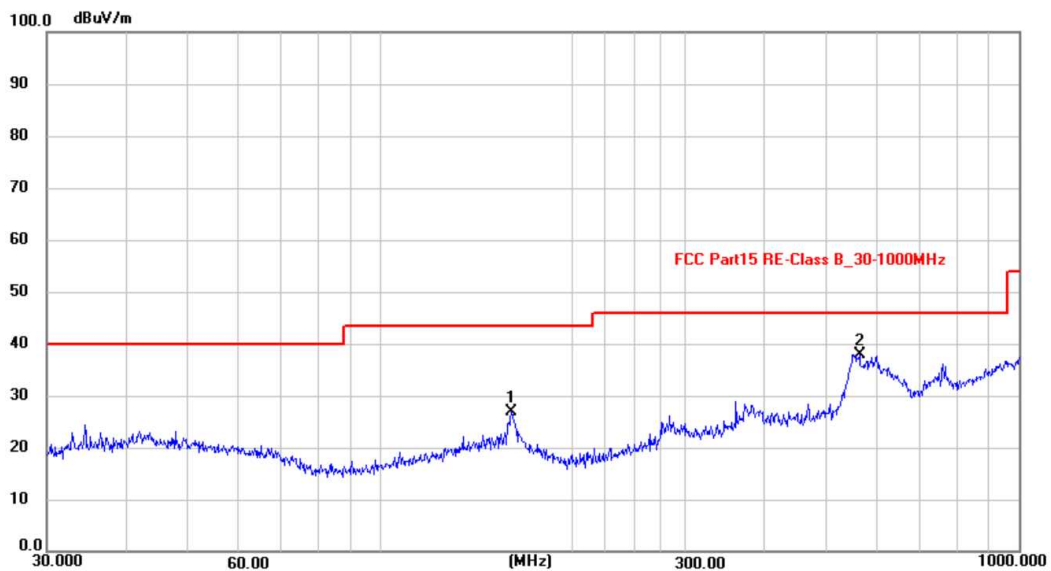


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:50:18



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	160.3456	13.75	13.23	26.98	43.50	-16.52	peak	200	174	P	
2 *	562.6623	18.21	19.79	38.00	46.00	-8.00	peak	200	97	P	

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

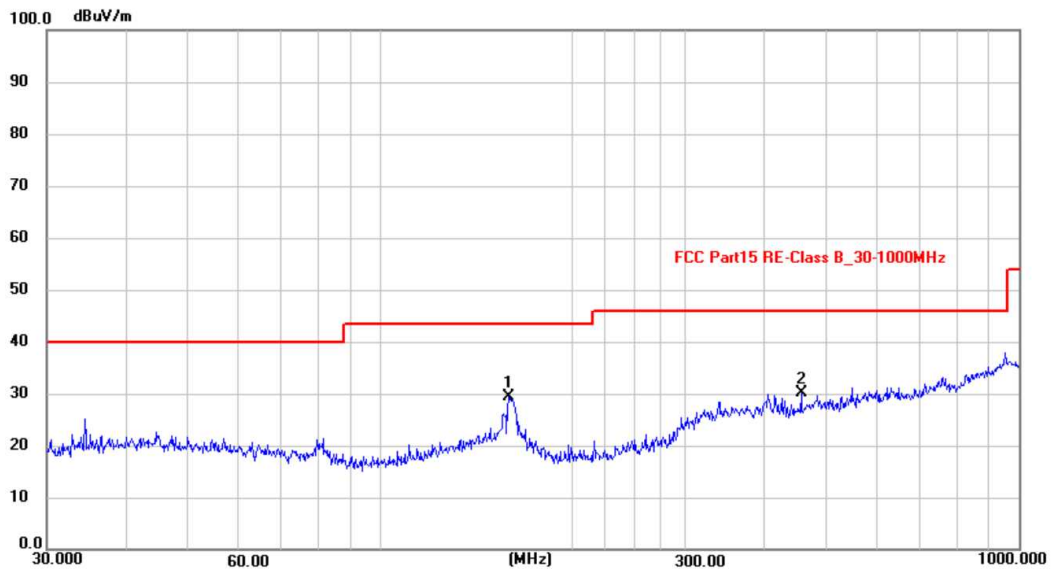


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 2462MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 9:55:05



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 *	158.6677	16.05	13.22	29.27	43.50	-14.23	peak	100	147	P	
2	455.9058	12.83	17.37	30.20	46.00	-15.80	peak	100	255	P	

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

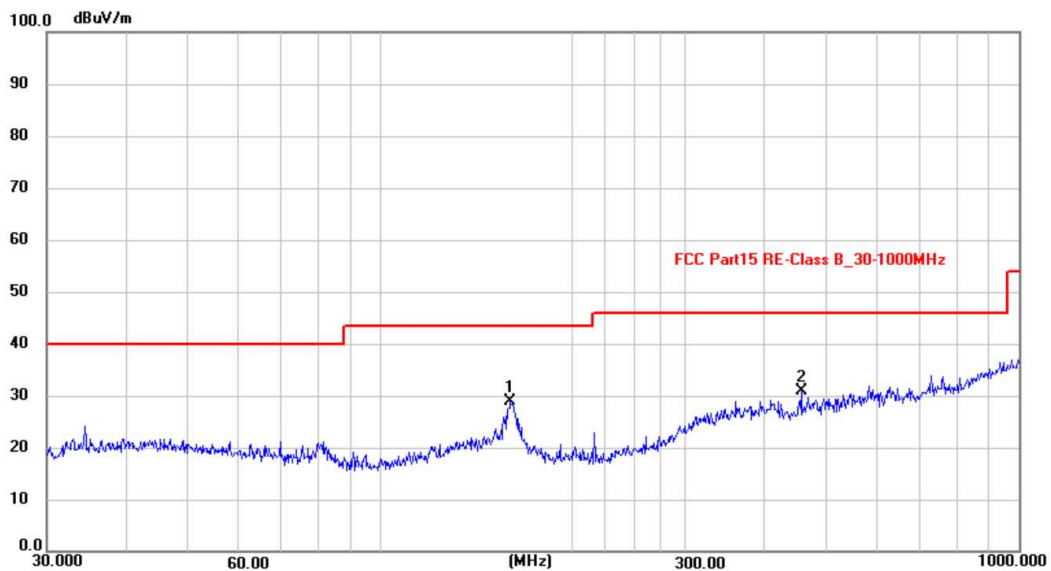


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax40 2422		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 10:00:25



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 *	159.7844	15.58	13.26	28.84	43.50	-14.66	peak	100	226	P	
2	455.9058	13.53	17.37	30.90	46.00	-15.10	peak	100	145	P	

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

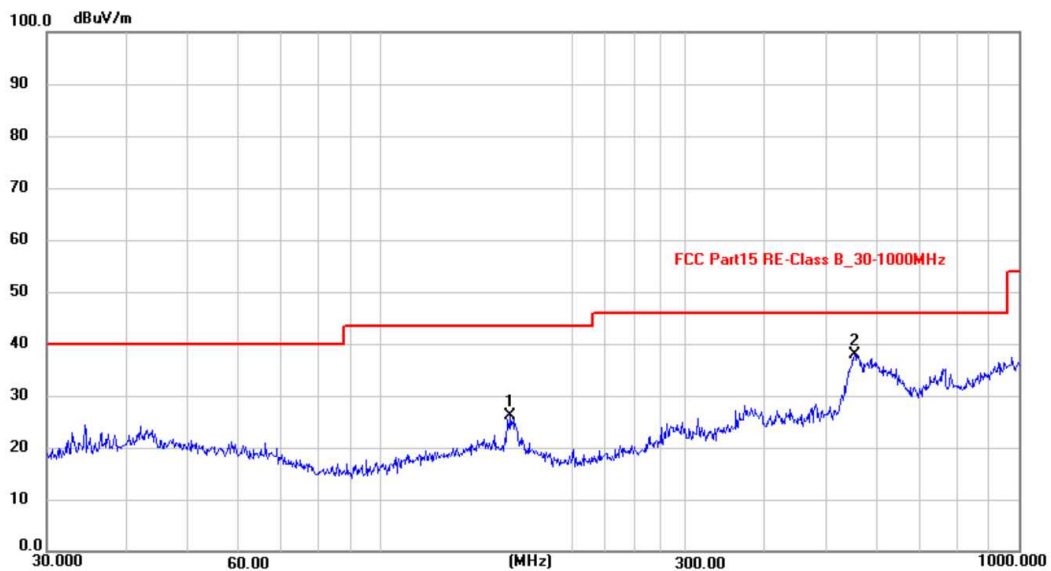


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax40 2422		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 10:05:52



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	159.7844	12.84	13.26	26.10	43.50	-17.40	peak	200	259	P	
2 *	552.8832	18.31	19.56	37.87	46.00	-8.13	peak	200	148	P	

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

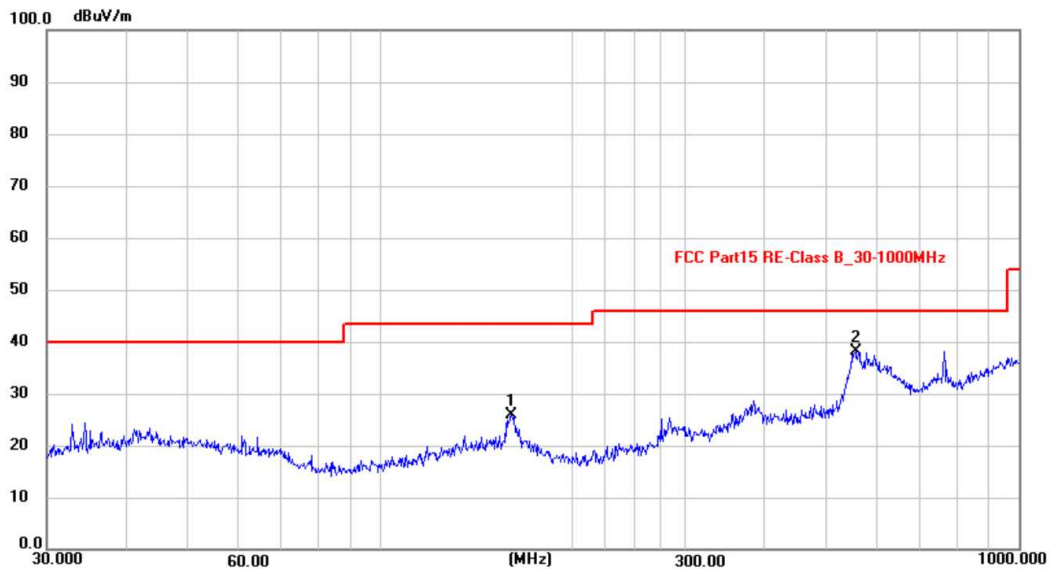


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax40 2437		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 10:10:11



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	160.3456	12.57	13.23	25.80	43.50	-17.70	peak	200	268	P	
2 *	554.8254	18.56	19.60	38.16	46.00	-7.84	peak	200	175	P	

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

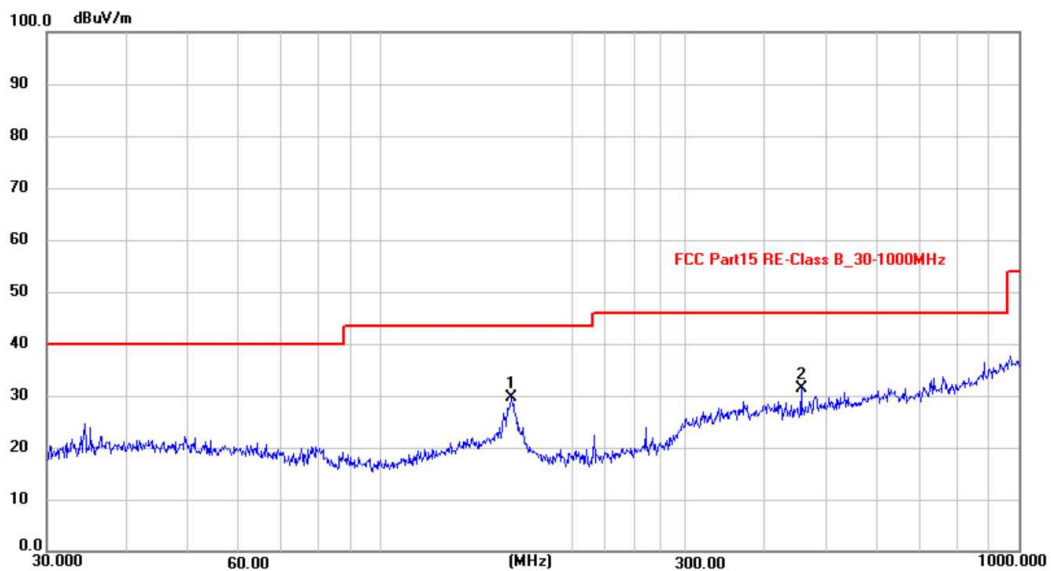


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax40 2437		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 10:15:37



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 *	160.3456	16.32	13.23	29.55	43.50	-13.95	peak	100	286	P	
2	455.9058	13.97	17.37	31.34	46.00	-14.66	peak	100	26	P	

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

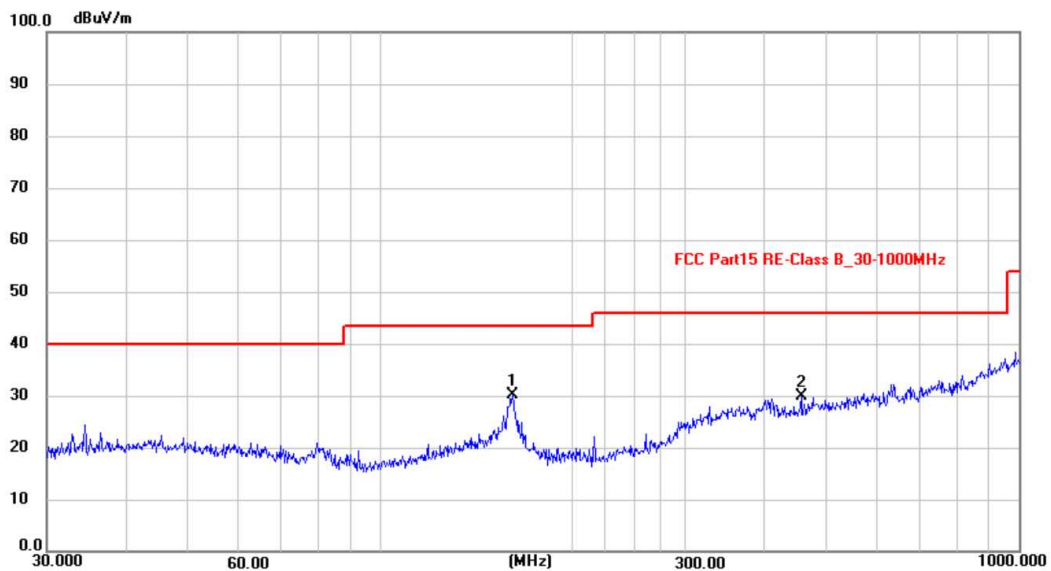


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1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax40 2452		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 10:20:57



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 *	160.9090	16.89	13.17	30.06	43.50	-13.44	peak	100	355	P	
2	455.9058	12.52	17.37	29.89	46.00	-16.11	peak	100	209	P	

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