



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: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2440MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:09:12



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	41.5670	12.27	14.50	26.77	40.00	-13.23	QP	200	165	P	
2	114.5146	17.96	12.02	29.98	43.50	-13.52	QP	200	98	P	
3	127.6645	17.77	13.07	30.84	43.50	-12.66	QP	200	41	P	
4 *	171.3925	21.00	13.24	34.24	43.50	-9.26	QP	200	75	P	
5	181.9202	20.60	12.27	32.87	43.50	-10.63	QP	200	106	P	
6	375.9385	16.63	17.05	33.68	46.00	-12.32	QP	200	227	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: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2440MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:15:55



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	57.7962	16.67	13.34	30.01	40.00	-9.99	QP	100	254	P	
2	87.1117	21.81	9.65	31.46	40.00	-8.54	QP	100	78	P	
3	96.4362	24.10	10.28	34.38	43.50	-9.12	QP	100	320	P	
4 *	116.9495	26.22	12.25	38.47	43.50	-5.03	QP	100	154	P	
5	123.6985	24.39	12.80	37.19	43.50	-6.31	QP	100	98	P	
6	173.8135	20.45	13.00	33.45	43.50	-10.05	QP	100	227	P	

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

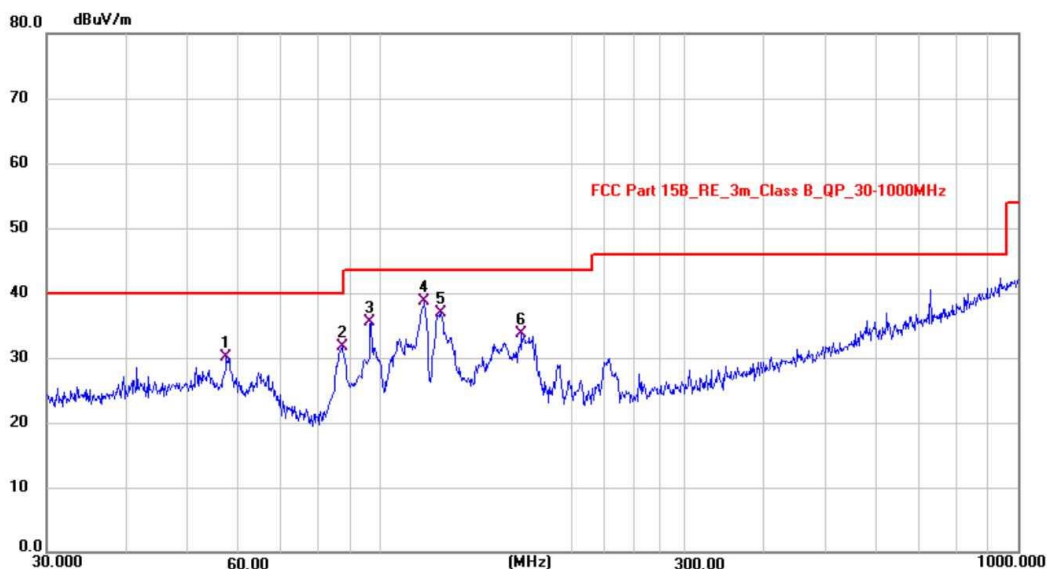


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2480MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:21:16



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	57.3923	16.72	13.39	30.11	40.00	-9.89	QP	100	230	P	
2	87.1117	21.99	9.65	31.64	40.00	-8.36	QP	100	56	P	
3	96.7749	25.23	10.32	35.55	43.50	-7.95	QP	100	148	P	
4 *	117.3603	26.37	12.29	38.66	43.50	-4.84	QP	100	57	P	
5	124.5690	23.95	12.86	36.81	43.50	-6.69	QP	100	49	P	
6	166.6514	19.99	13.70	33.69	43.50	-9.81	QP	100	220	P	

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

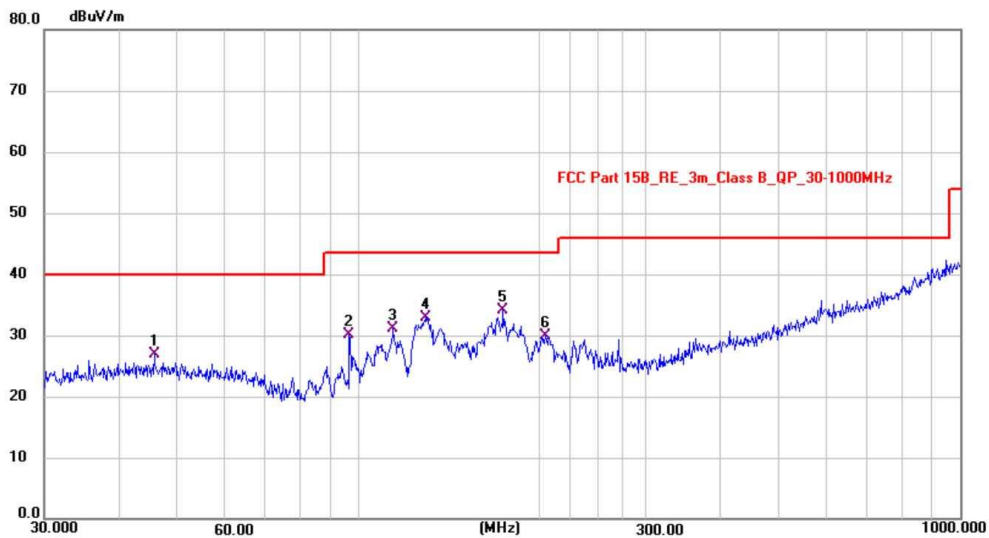


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 2480MHz
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeTrakW)

Radiated Emission Measurement

Test Date: 2024/11/30 08:26:13



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	45.6947	12.50	14.33	26.83	40.00	-13.17	QP	200	154	P	
2	96.4361	19.80	10.28	30.08	43.50	-13.42	QP	200	98	P	
3	114.1137	19.10	11.98	31.08	43.50	-12.42	QP	200	52	P	
4	129.4677	19.68	13.19	32.87	43.50	-10.63	QP	200	367	P	
5 *	173.8135	21.11	13.00	34.11	43.50	-9.39	QP	200	41	P	
6	204.2377	18.53	11.31	29.84	43.50	-13.66	QP	200	229	P	

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

Above 1GHz

Note: The highest waveform in the figure is 2.4GHz SRD Fundamental.

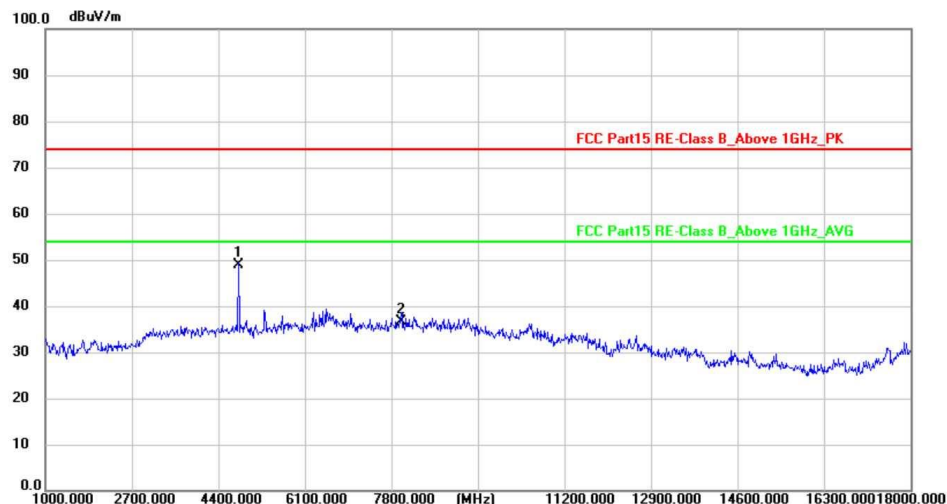


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2402MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:36:44



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 *	4803.750	62.82	-14.06	48.76	74.00	-25.24	peak	150	124	P	
2	7999.750	43.81	-7.16	36.65	74.00	-37.35	peak	150	257	P	

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

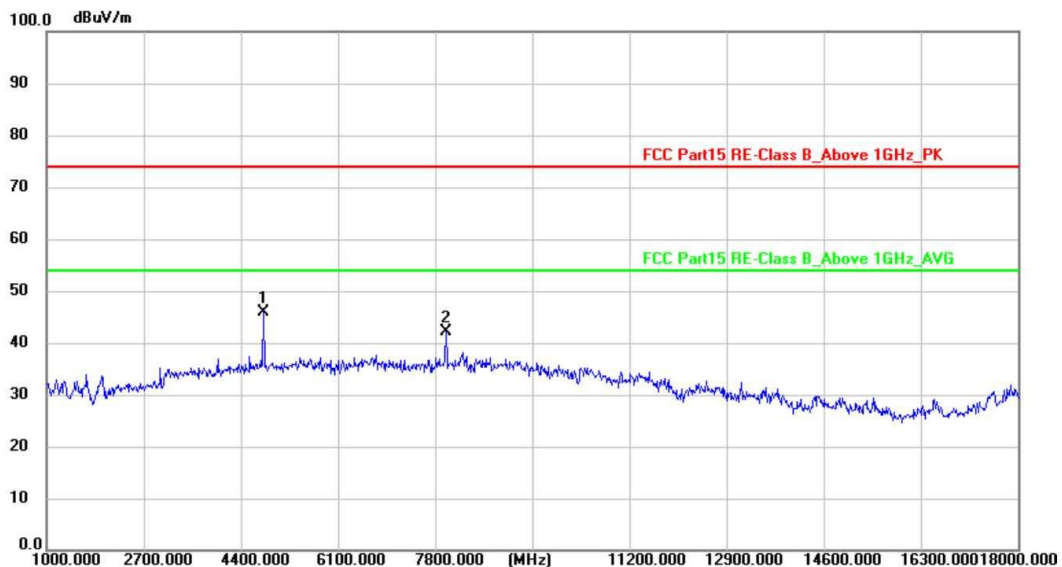


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2402MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:42:21



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 *	4803.750	59.07	-13.25	45.82	74.00	-28.18	peak	150	165	P	
2	7999.750	49.17	-7.16	42.01	74.00	-31.99	peak	150	268	P	

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

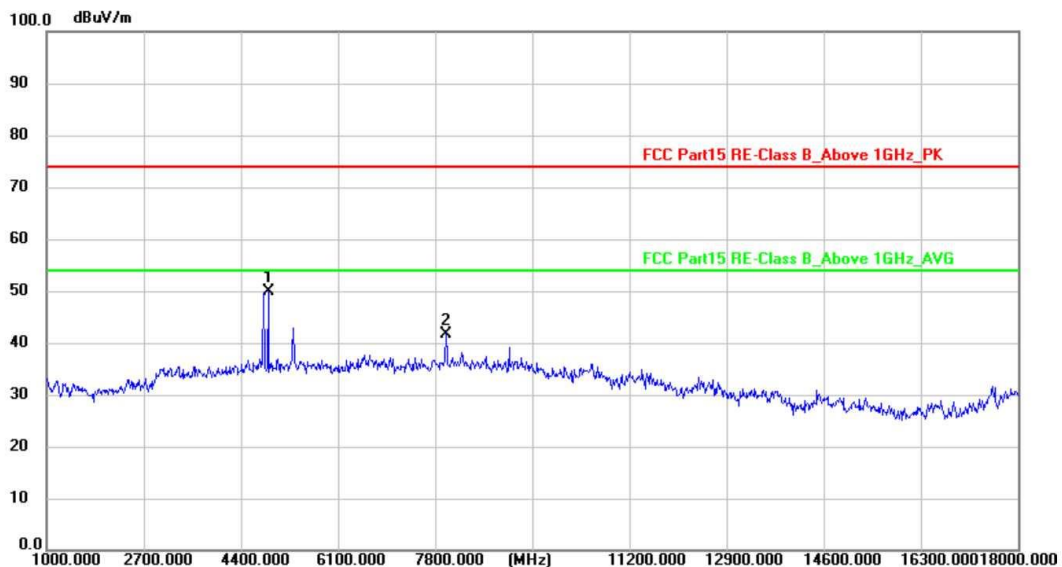


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2440MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:46:04



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 *	4880.250	62.80	-12.98	49.82	74.00	-24.18	peak	150	235	P	
2	7999.750	48.71	-7.16	41.55	74.00	-32.45	peak	150	69	P	

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

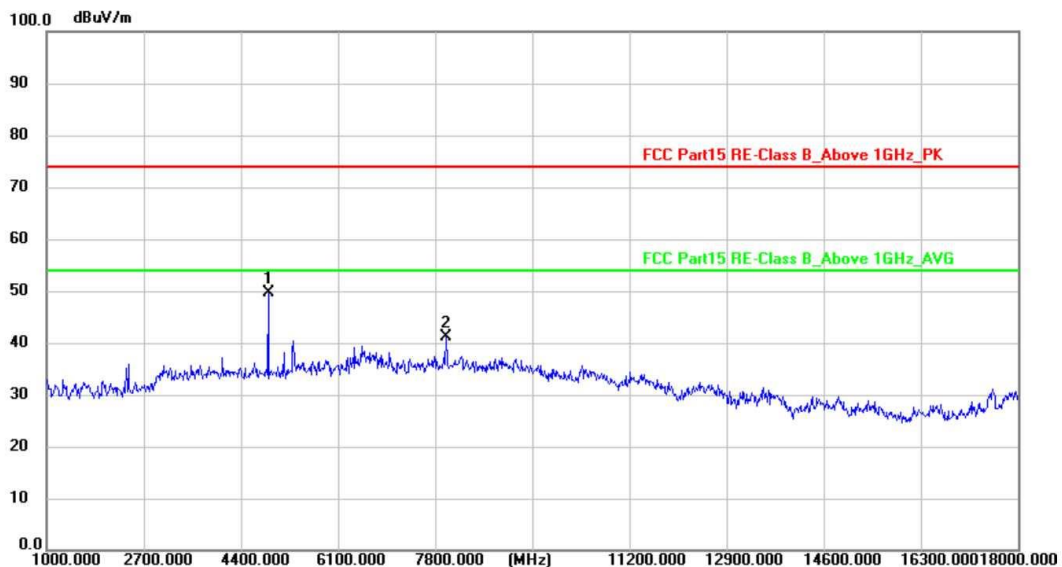


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2440MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:51:30



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 *	4878.125	63.49	-13.87	49.62	74.00	-24.38	peak	150	225	P	
2	7999.750	48.32	-7.16	41.16	74.00	-32.84	peak	150	109	P	

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

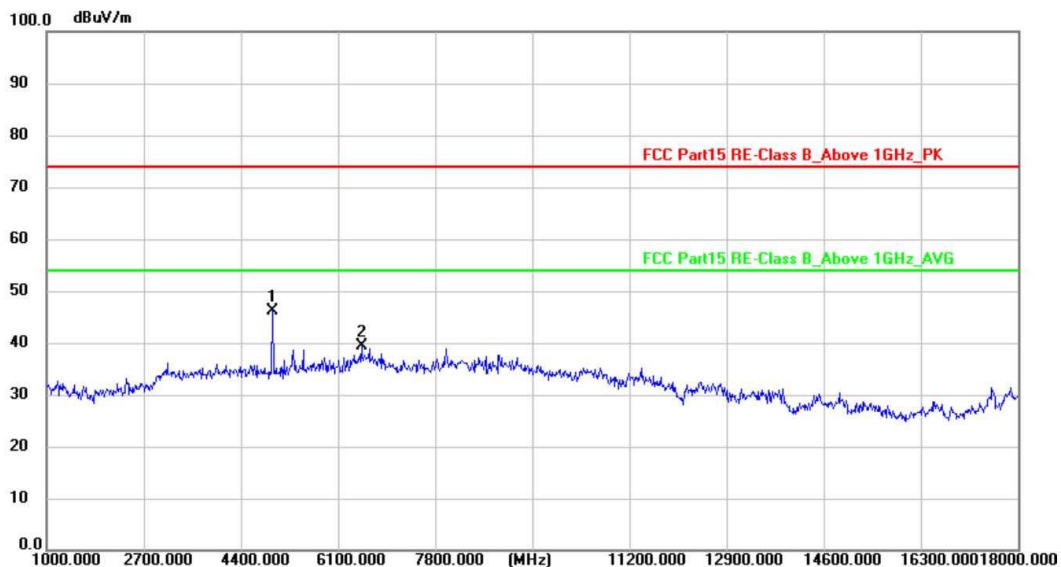


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2480MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 08:54:40



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 *	4958.875	59.73	-13.68	46.05	74.00	-27.95	peak	150	135	P	
2	6522.875	48.79	-9.38	39.41	74.00	-34.59	peak	150	268	P	

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

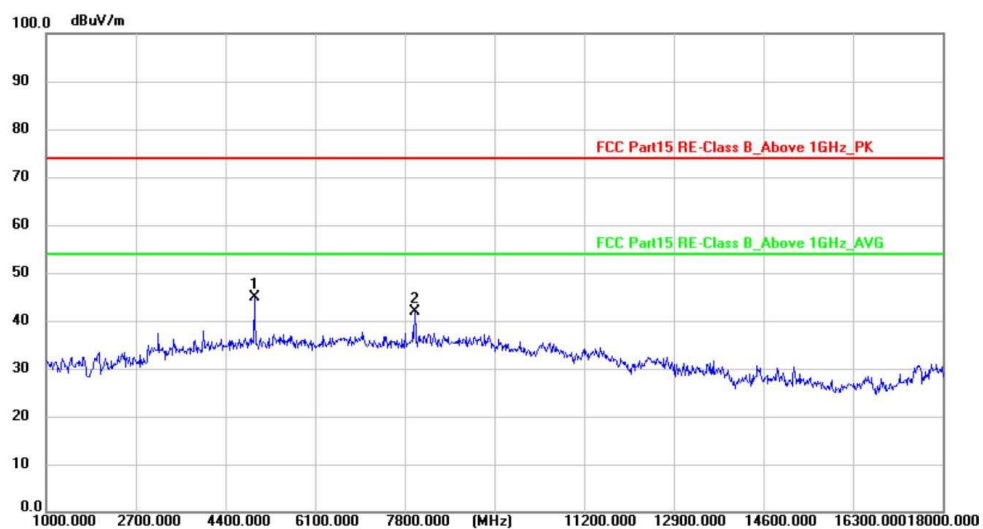


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 2480MHz
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeTrakW)

Radiated Emission Measurement

Test Date: 2024/11/30 08:59:14



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 *	4958.875	57.70	-12.72	44.98	74.00	-29.02	peak	150	254	P	
2	7999.750	49.02	-7.16	41.86	74.00	-32.14	peak	150	168	P	

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

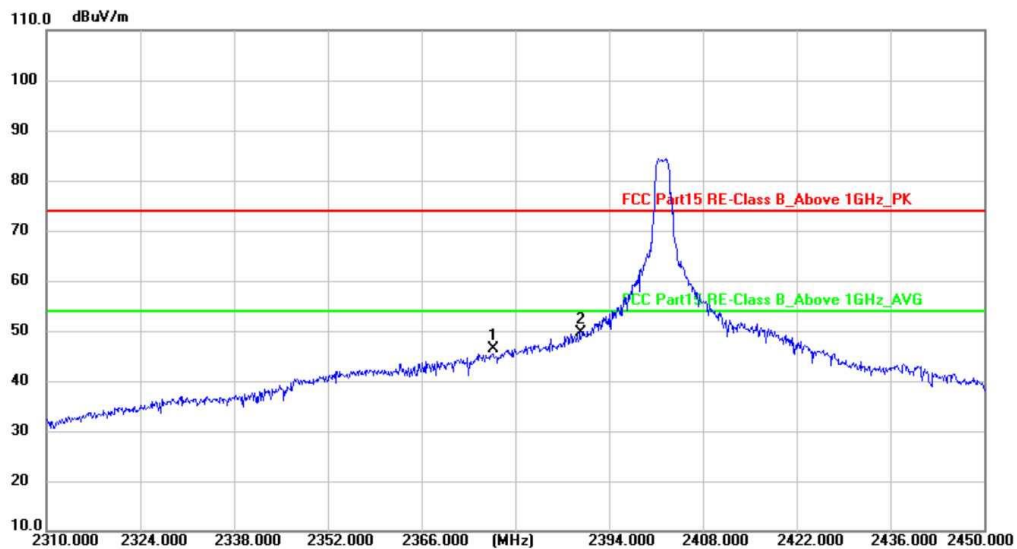


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 2402MHz
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeTrakW)

Radiated Emission Measurement

Test Date: 2024/11/30 09:02:59



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	2376.675	72.64	-26.15	46.49	74.00	-27.51	peak	150	168	P	
2 *	2390.000	75.87	-26.12	49.75	74.00	-24.25	peak	150	241	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: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2402MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 09:06:55



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	2338.140	66.89	-26.27	40.62	74.00	-33.38	peak	150	168	P	
2 *	2390.000	77.35	-26.12	51.23	74.00	-22.77	peak	150	217	P	

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

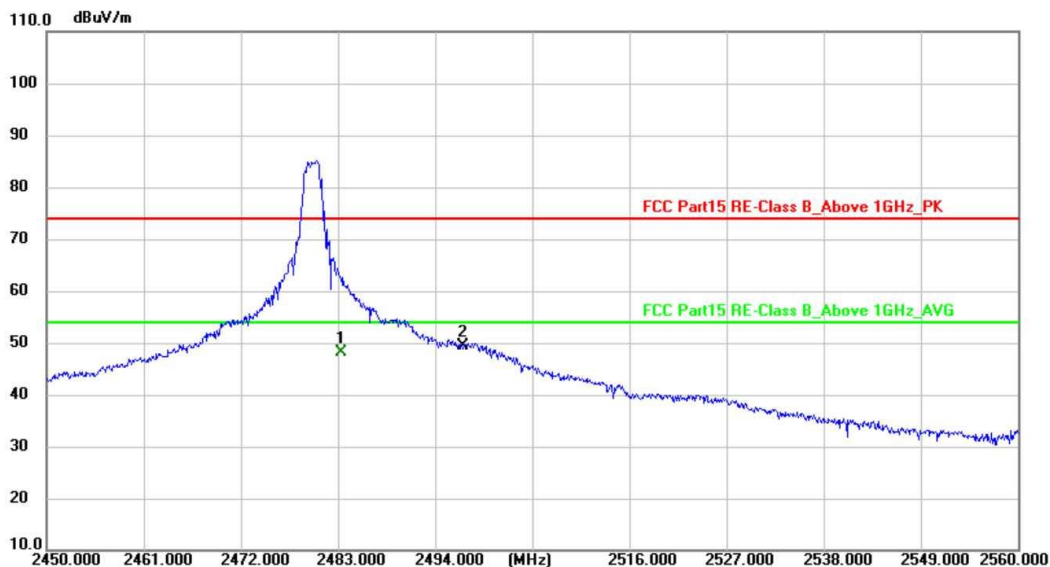


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: See note	Distance: 3m	Humidity: 54 %RH
M/N: See note	Test Engineer: Felix Pang	
Test Mode: 2480MHz		
Test Voltage: DC 24V		
Note: Optical 3D Measuring and Dynamic Tracking System		
FreeScan Trak ProW(FreeTrakW)		

Radiated Emission Measurement

Test Date: 2024/11/30 09:10:20



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 *	2483.500	73.97	-25.84	48.13	54.00	-5.87	AVG	150	158	P	
2	2497.396	75.12	-25.79	49.33	74.00	-24.67	peak	150	241	P	

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

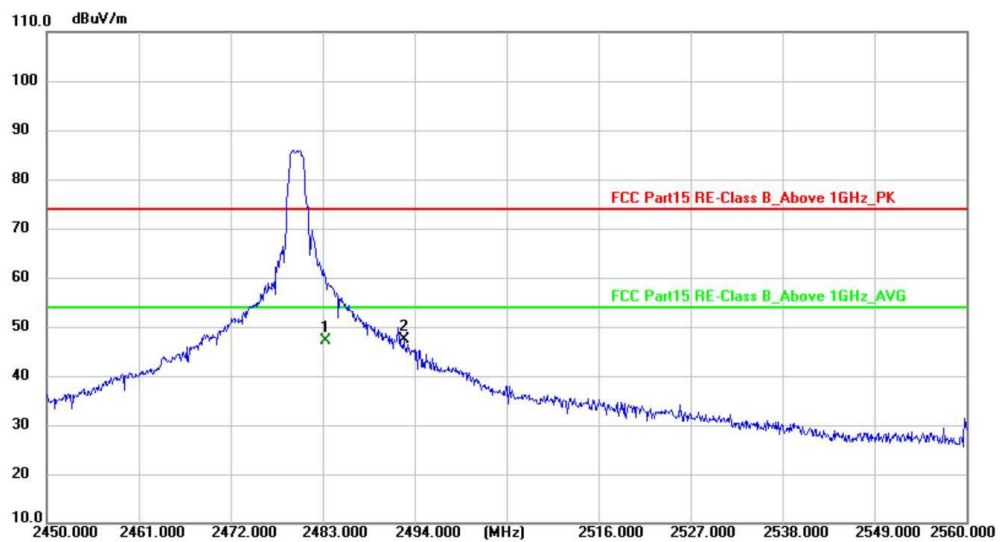


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 2480MHz
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeTrakW)

Radiated Emission Measurement

Test Date: 2024/11/30 09:16:55



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 *	2483.500	73.09	-25.84	47.25	54.00	-6.75	AVG	150	127	P	
2	2492.680	73.23	-25.80	47.43	74.00	-26.57	peak	150	168	P	

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

Appendix B.7: Test Results of Conducted emissions of AC mains

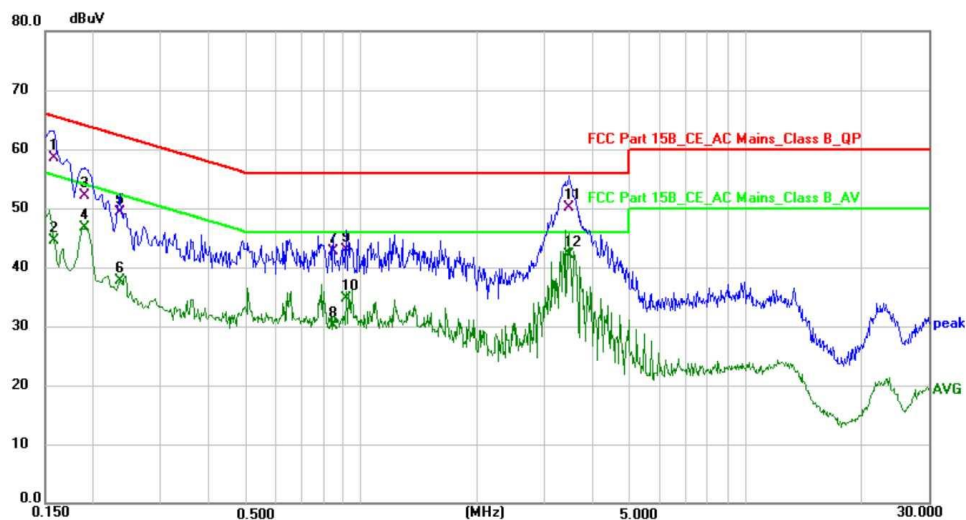


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Test Site: PSI EMC Lab-Shielded Room Phase: **N** Temperature: 26 °C
EUT: See note Humidity: 54 %RH
M/N: FreeScan Trak ProW(FreeTrakW) Test Engineer: Felix Pang
Test Mode: 2.4G SRD Link
Test Voltage: AC 120V/60Hz
Note: Optical 3D Measuring and Dynamic Tracking System

Conducted Emission Measurement

Test Date: 2024/9/25 15:45:58



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1580	48.59	9.82	58.41	65.57	-7.16	QP	P	
2	0.1580	34.69	9.82	44.51	55.57	-11.06	AVG	P	
3	0.1900	42.11	9.99	52.10	64.04	-11.94	QP	P	
4	0.1900	36.65	9.99	46.64	54.04	-7.40	AVG	P	
5	0.2340	39.41	9.96	49.37	62.31	-12.94	QP	P	
6	0.2340	27.69	9.96	37.65	52.31	-14.66	AVG	P	
7	0.8460	33.00	9.65	42.65	56.00	-13.35	QP	P	
8	0.8460	20.40	9.65	30.05	46.00	-15.95	AVG	P	
9	0.9100	33.38	9.59	42.97	56.00	-13.03	QP	P	
10	0.9100	25.04	9.59	34.63	46.00	-11.37	AVG	P	
11	3.4700	40.49	9.56	50.05	56.00	-5.95	QP	P	
12 *	3.4700	32.57	9.56	42.13	46.00	-3.87	AVG	P	

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

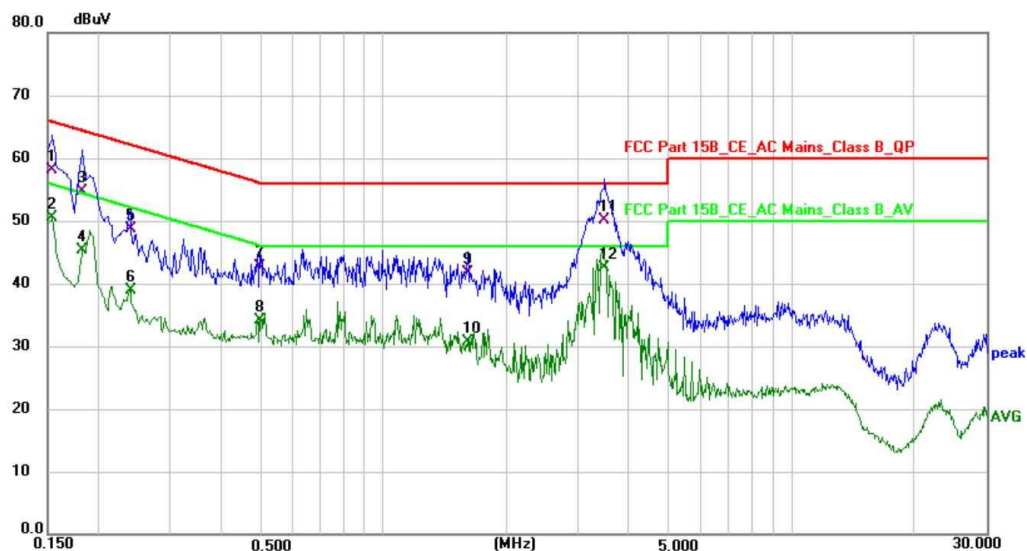


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Test Site: PSI EMC Lab-Shielded Room Phase: **L1** Temperature: 26 °C
EUT: See note Humidity: 54 %RH
M/N: FreeScan Trak ProW(FreeTrakW) Test Engineer: Felix Pang
Test Mode: 2.4G SRD Link
Test Voltage: AC 120V/60Hz
Note: Optical 3D Measuring and Dynamic Tracking System

Conducted Emission Measurement

Test Date: 2024/9/25 15:37:54



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	48.36	9.79	58.15	65.79	-7.64	QP	P	
2	0.1539	40.70	9.79	50.49	55.79	-5.30	AVG	P	
3	0.1819	44.67	9.95	54.62	64.40	-9.78	QP	P	
4	0.1819	35.31	9.95	45.26	54.40	-9.14	AVG	P	
5	0.2380	38.67	9.95	48.62	62.17	-13.55	QP	P	
6	0.2380	28.93	9.95	38.88	52.17	-13.29	AVG	P	
7	0.4980	32.84	9.78	42.62	56.03	-13.41	QP	P	
8	0.4980	24.40	9.78	34.18	46.03	-11.85	AVG	P	
9	1.6100	32.29	9.36	41.65	56.00	-14.35	QP	P	
10	1.6100	21.31	9.36	30.67	46.00	-15.33	AVG	P	
11	3.4780	40.59	9.56	50.15	56.00	-5.85	QP	P	
12 *	3.4780	33.02	9.56	42.58	46.00	-3.42	AVG	P	

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