

Table of Contents

1. TRANSMITTER SPURIOUS EMISSIONS 2
 1.1 TRANSMITTER SPURIOUS EMISSIONS, BELOW 1GHz.....3
 1.2 TRANSMITTER SPURIOUS EMISSIONS, ABOVE 1GHz.....7
 2. TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS 71
 3. TEST RESULTS OF AC CONDUCTED EMISSIONS 123

1. Transmitter Spurious Emissions

Note:

1. Testing is carried out with frequency rang 9kHz to the tenth harmonics. And it verified that the emssions above 18GHz are just floor-nises, no need to report it.
2. The highest emissions are the fundamental waves.
3. All modes for required channel tested, only the worst-case reported.

1.1 Transmitter Spurious Emissions, Below 1GHz



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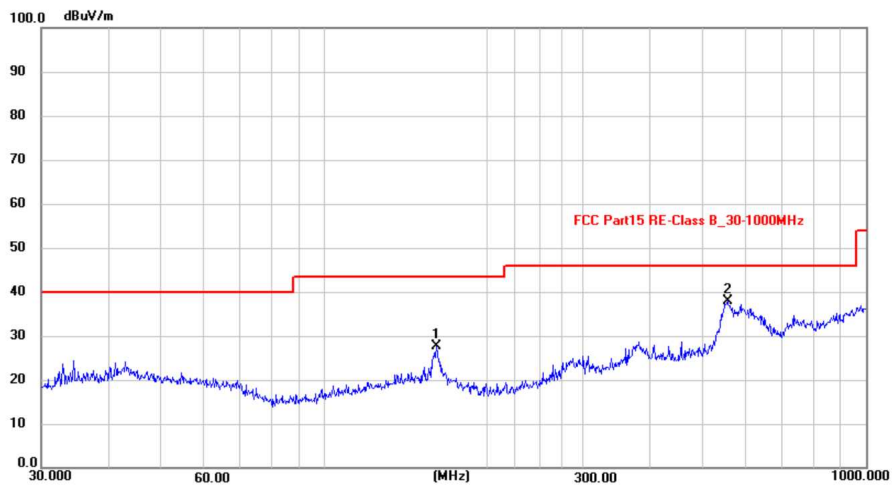
Test Site: PSI EMC Lab-3m Chamber
EUT: 3D Scanner
M/N: EinScan Libre
Test Mode: a 5180MHz
Test Voltage: DC 14.4V
Note:

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

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2024/9/15 13:45:17



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	14.37	13.17	27.54	43.50	-15.96	peak	100	82	P	
2 *	554.8254	18.30	19.60	37.90	46.00	-8.10	peak	100	49	P	

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

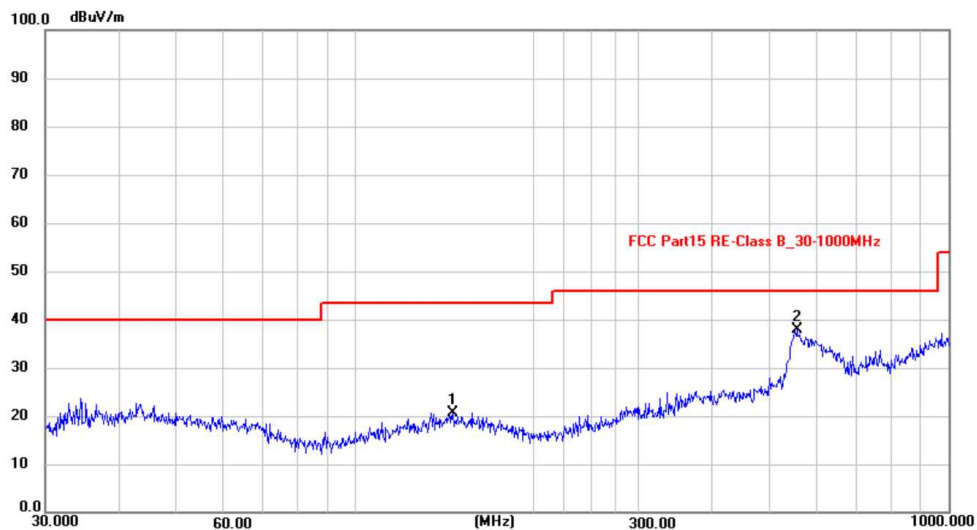


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: a 5180MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/15 13:50:43



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	145.8611	7.67	12.95	20.62	43.50	-22.88	peak	200	249	P	
2 *	554.8254	18.36	19.60	37.96	46.00	-8.04	peak	200	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: **Vertical**

Temperature: 26 °C

EUT: 3D Scanner

Distance: 3m

Humidity: 54 %RH

M/N: EinScan Libre

Test Engineer: Felix Pang

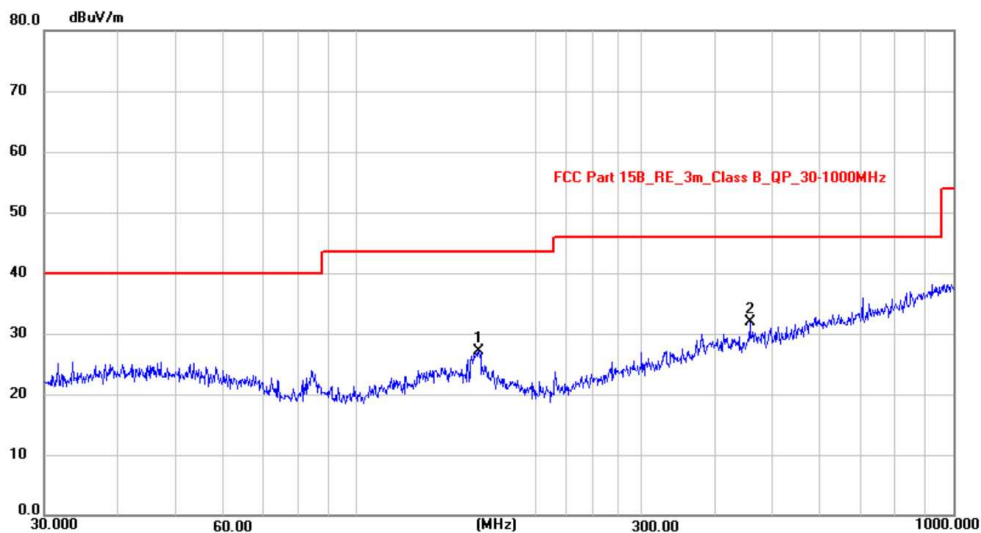
Test Mode: 11a 5745MHz

Test Voltage: DC 14.4V

Note:

Radiated Emission Measurement

Test Date: 2024/9/21 18:02:05



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	160.3456	13.81	13.23	27.04	43.50	-16.46	peak	100	102	P	
2 *	456.1057	14.46	17.37	31.83	46.00	-14.17	peak	100	124	P	

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

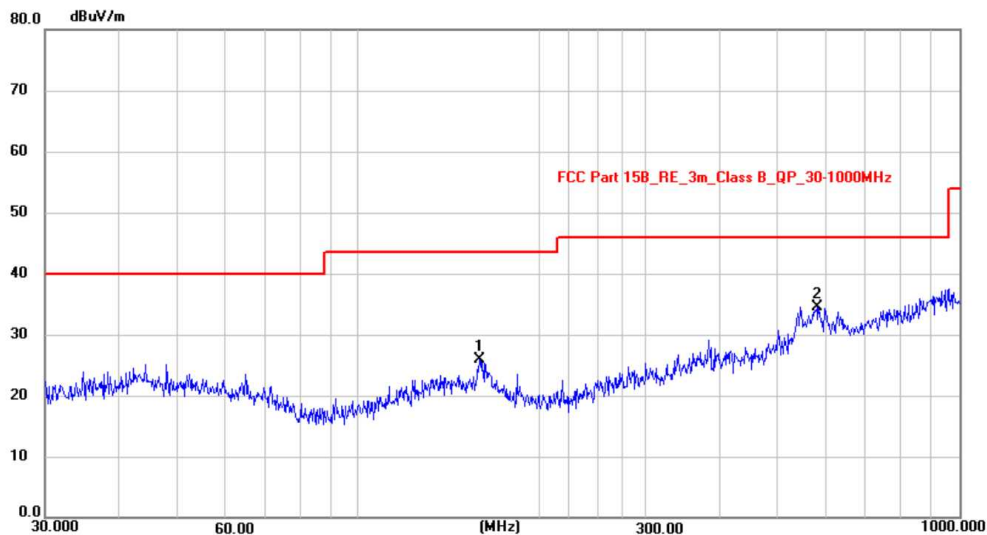


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: 11a 5745MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/21 18:07:25



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	158.8765	12.76	13.23	25.99	43.50	-17.51	peak	200	240	P	
2 *	578.6700	14.35	20.18	34.53	46.00	-11.47	peak	200	103	P	

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

1.2 Transmitter Spurious Emissions, above 1GHz

Note: there is a appropriate filter installed at the input of the measurement system power amplifier to attenuate the fundamental emission of the EUT.

U-NII-1 Band:

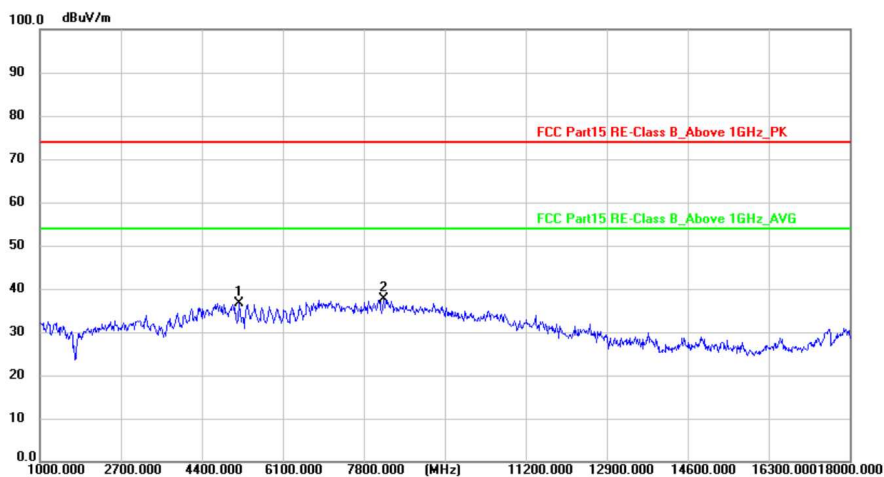


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

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: n20 5200MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/16 16:24:03



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	5196.875	48.75	-12.23	36.52	74.00	-37.48	peak	150	158	P	
2 *	8210.125	44.68	-6.97	37.71	74.00	-36.29	peak	150	247	P	

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

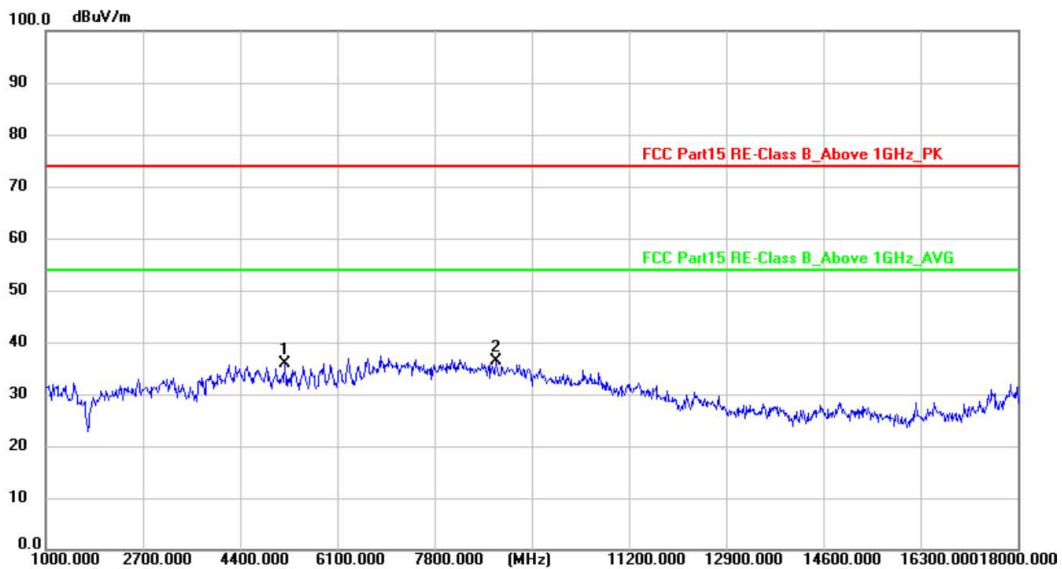


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: n20 5200MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 16:34:03



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	5192.625	49.04	-13.05	35.99	74.00	-38.01	peak	150	147	P	
2 *	8879.500	42.60	-6.32	36.28	74.00	-37.72	peak	150	201	P	

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

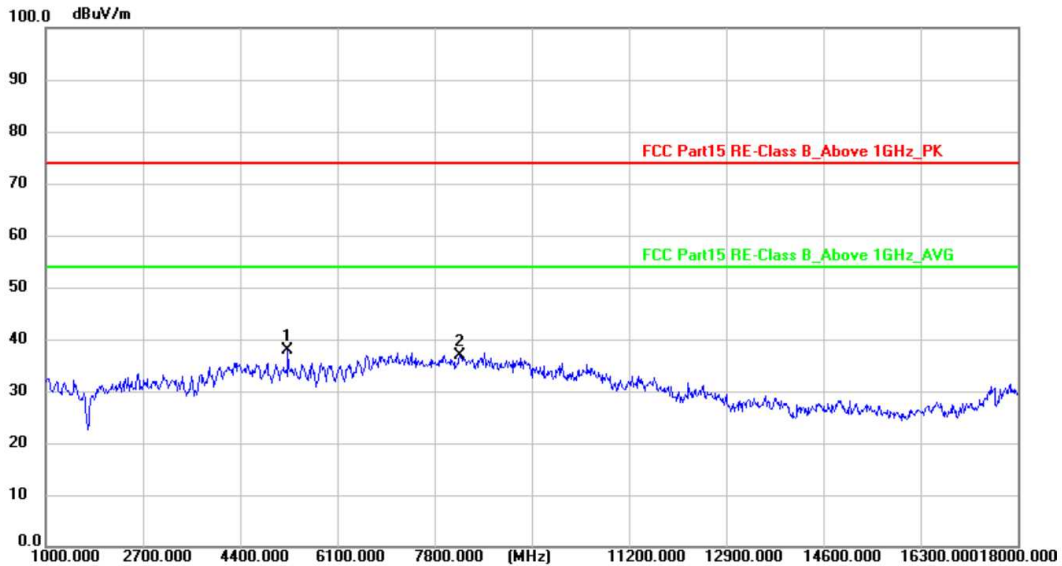


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: n20 5240MHz		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/16 16:39:03



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 *	5235.125	50.80	-12.93	37.87	74.00	-36.13	peak	150	214	P	
2	8256.875	43.90	-6.91	36.99	74.00	-37.01	peak	150	35	P	

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

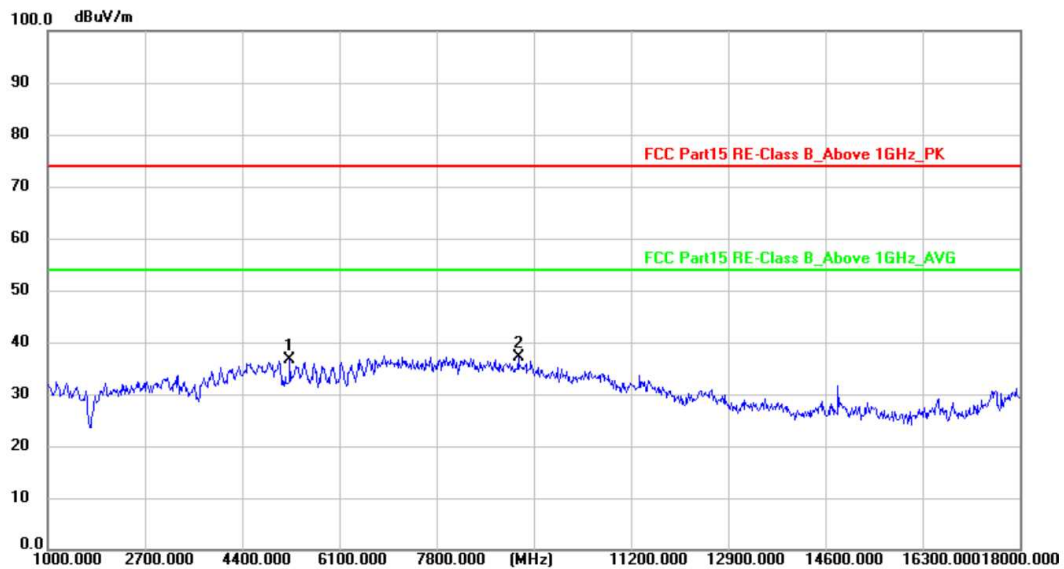


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: n20 5240MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 16:43:03



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	5243.625	48.73	-12.14	36.59	74.00	-37.41	peak	150	213	P	
2 *	9236.500	43.25	-6.06	37.19	74.00	-36.81	peak	150	146	P	

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

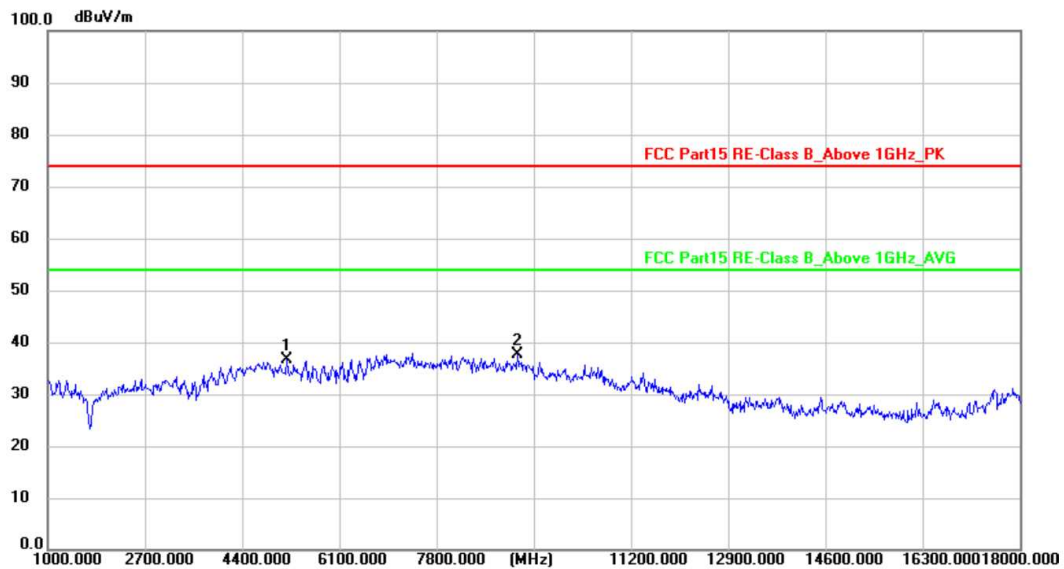


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5180MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 16:49:03



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	5184.125	48.80	-12.25	36.55	74.00	-37.45	peak	150	240	P	
2 *	9215.250	43.73	-6.09	37.64	74.00	-36.36	peak	150	322	P	

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

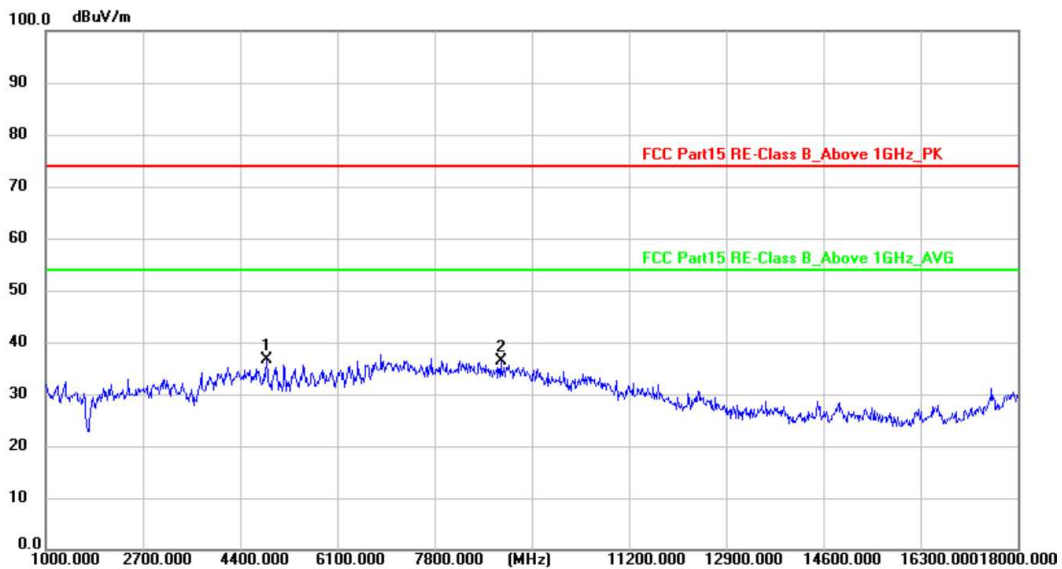


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5180MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 16:54:03



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 *	4873.875	50.48	-13.88	36.60	74.00	-37.40	peak	150	145	P	
2	8964.500	42.55	-6.24	36.31	74.00	-37.69	peak	150	211	P	

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

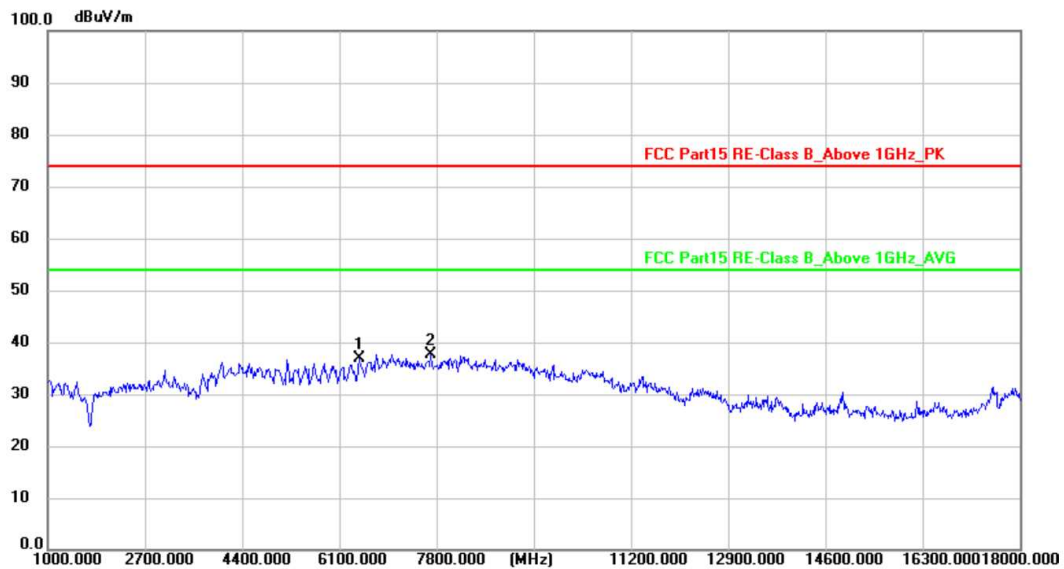


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5200MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 16:59:03



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	6452.750	46.45	-9.59	36.86	74.00	-37.14	peak	150	245	P	
2 *	7700.125	45.03	-7.43	37.60	74.00	-36.40	peak	150	112	P	

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

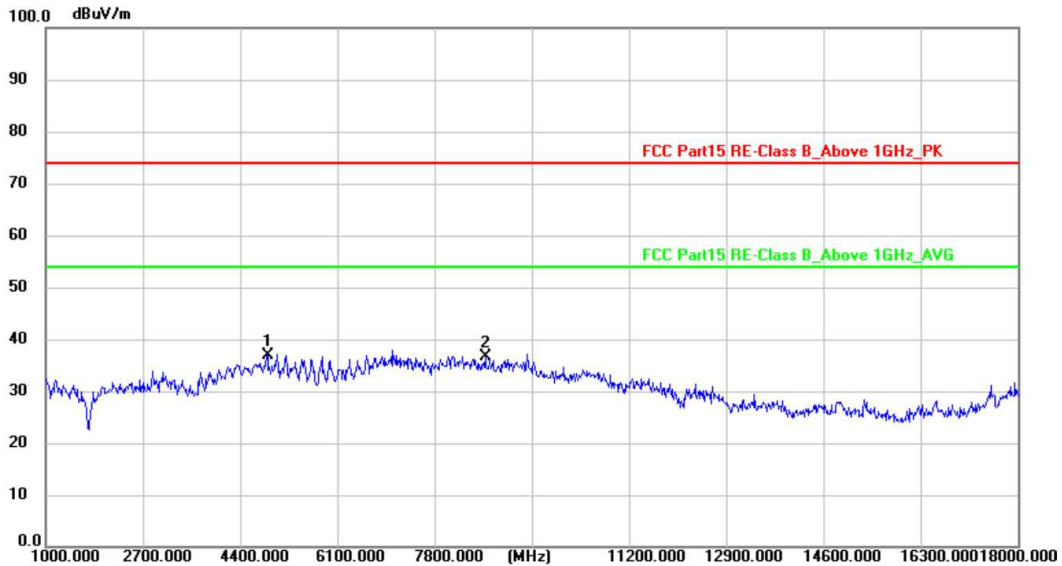


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5200MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 17:07:03



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 *	4876.000	49.90	-13.00	36.90	74.00	-37.10	peak	150	214	P	
2	8692.500	43.21	-6.50	36.71	74.00	-37.29	peak	150	144	P	

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

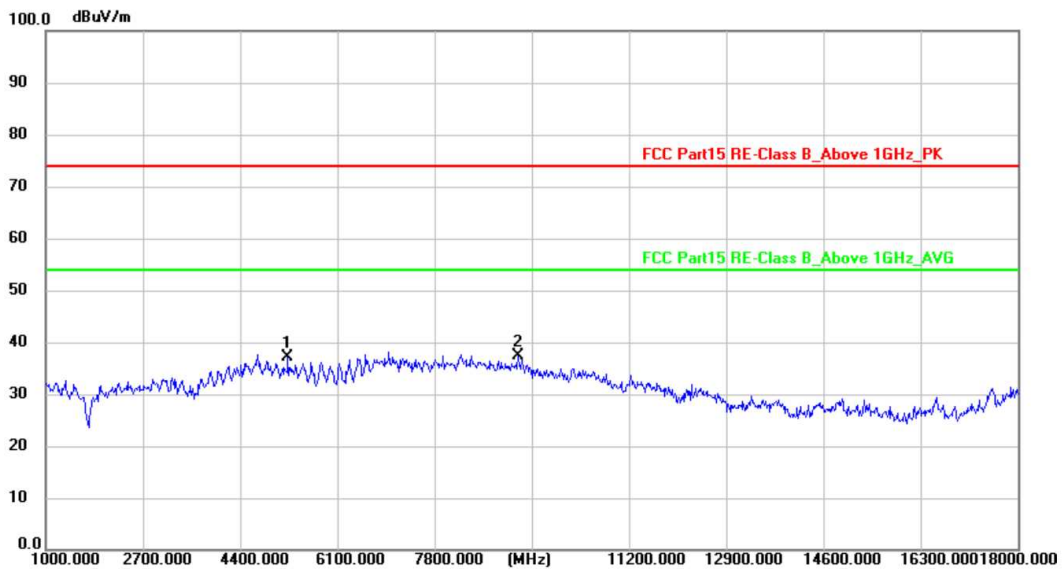


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5240MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 17:14:03



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	5245.750	49.32	-12.14	37.18	74.00	-36.82	peak	150	147	P	
2 *	9270.500	43.43	-6.05	37.38	74.00	-36.62	peak	150	114	P	

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

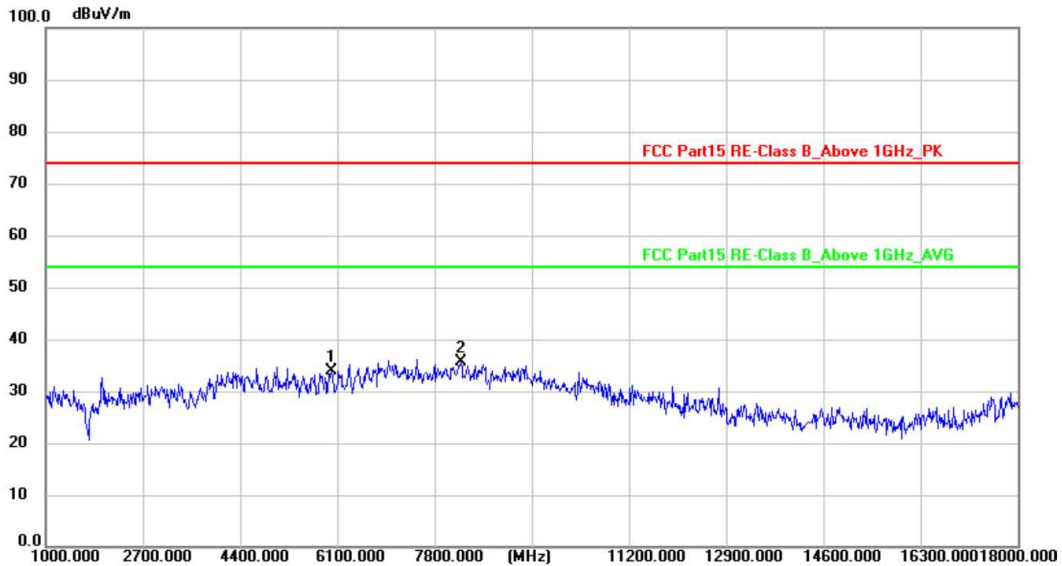


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ac20 5240MHz
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 17:24:03



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	6000.125	44.78	-10.87	33.91	74.00	-40.09	peak	150	24	P	
2 *	8261.125	42.57	-6.91	35.66	74.00	-38.34	peak	150	102	P	

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

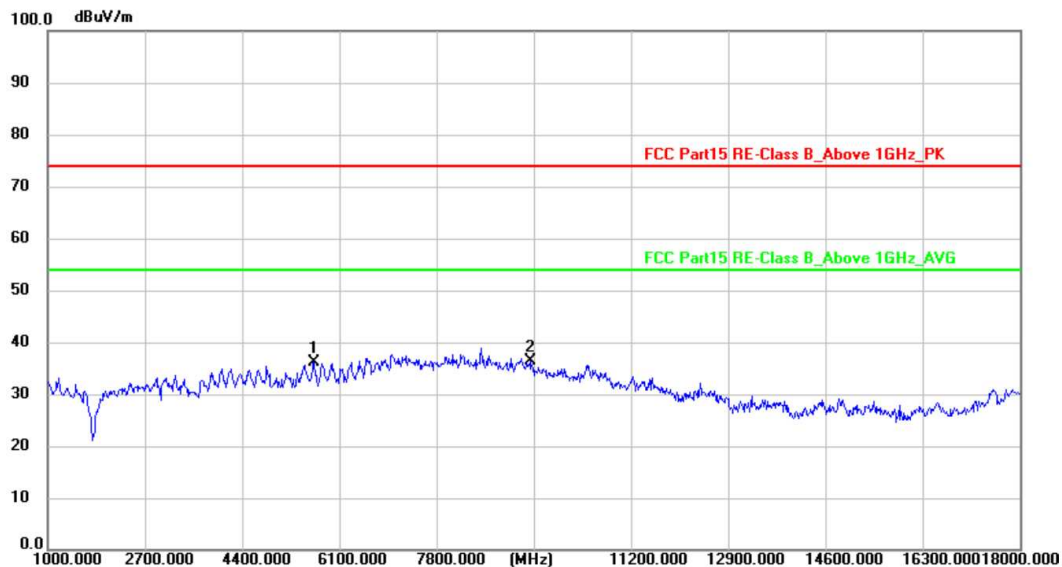


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ax20 5180
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 19:05:45



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	5658.000	48.00	-11.78	36.22	74.00	-37.78	peak	150	124	P	
2 *	9432.000	42.21	-5.95	36.26	74.00	-37.74	peak	150	245	P	

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

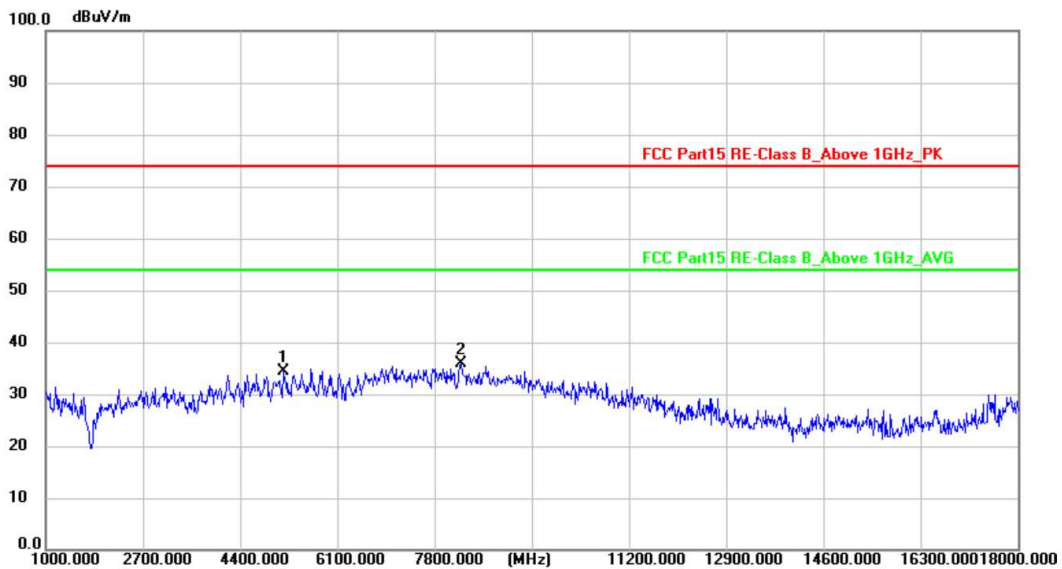


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax20 5180		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/16 19:10:57



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	5158.625	46.79	-12.30	34.49	74.00	-39.51	peak	150	241	P	
2 *	8263.250	42.69	-6.90	35.79	74.00	-38.21	peak	150	144	P	

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

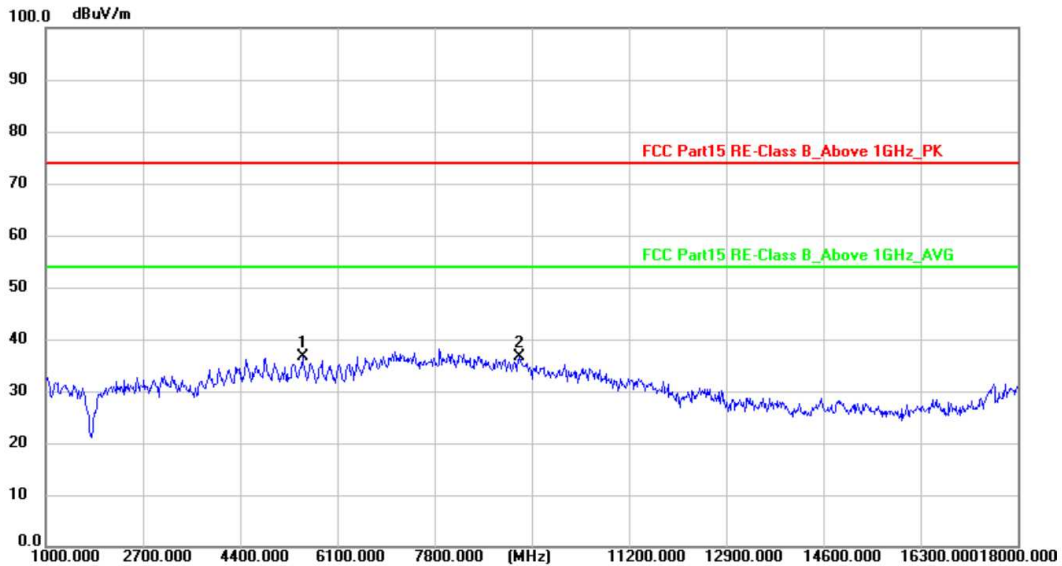


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: 3D Scanner Distance: 3m Humidity: 54 %RH
M/N: EinScan Libre Test Engineer: Felix Pang
Test Mode: ax20 5200
Test Voltage: DC 14.4V
Note:

Radiated Emission Measurement

Test Date: 2024/9/16 19:15:26



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 *	5500.750	48.44	-11.71	36.73	74.00	-37.27	peak	150	175	P	
2	9287.500	42.72	-6.03	36.69	74.00	-37.31	peak	150	142	P	

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

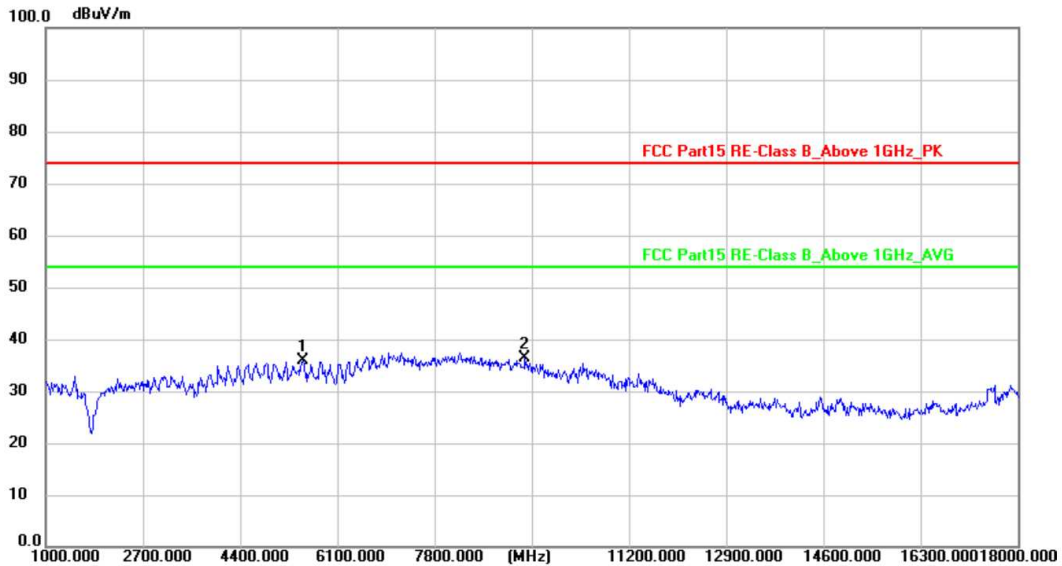


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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: 3D Scanner	Distance: 3m	Humidity: 54 %RH
M/N: EinScan Libre	Test Engineer: Felix Pang	
Test Mode: ax20 5200		
Test Voltage: DC 14.4V		
Note:		

Radiated Emission Measurement

Test Date: 2024/9/16 19:20:43



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	5507.125	48.00	-12.20	35.80	74.00	-38.20	peak	150	24	P	
2 *	9393.750	42.23	-5.97	36.26	74.00	-37.74	peak	150	38	P	

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