

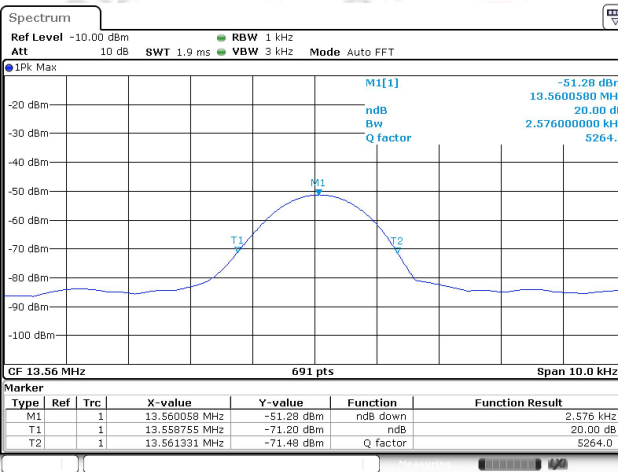
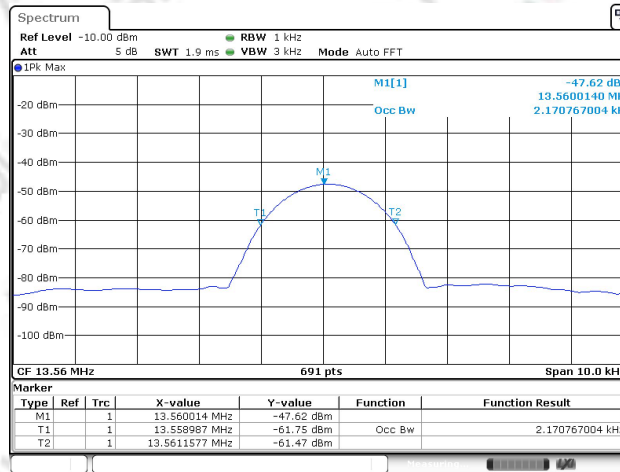
Appendix A2

NFC Test Data

Conducted Test Data

20dB Bandwidth and 99% Bandwidth

Temperature:	24°C	Relative Humidity:	43%RH
Test Voltage:	DC 12V	Test Mode:	NFC

20dB		99% OBW	
			
20dB Bandwidth(kHz)	2.576	99% Occupied BW(kHz)	2.171
Frequency range (MHz)	fL > 13.553	13.559	Test Result
	fH < 13.567	13.561	Complies

Frequency Stability

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
11.4	13.560058	+4.28	±100	PASS
12.0	13.560058			
13.2	13.560058			

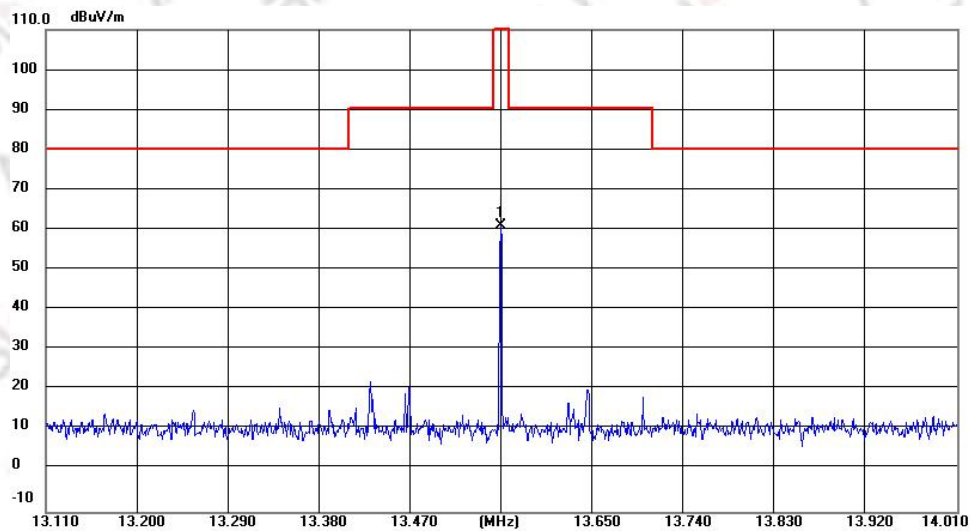
Temperature vs. Frequency Stability (Test Voltage: 12.0V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
-30°C	13.560058	+4.28	±100	PASS
-20°C	13.560058			
-10°C	13.560058			
0°C	13.560058			
10°C	13.560058			
20°C	13.560058			
30°C	13.560058			
40°C	13.560058			
50°C	13.560058			

Radiated Test Data

Field Strength of Fundamental Emissions

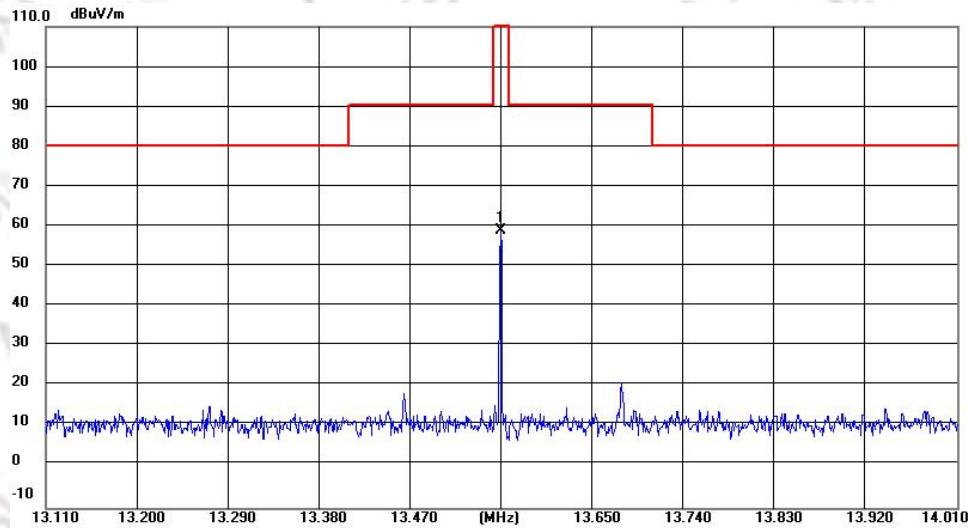
Temperature:	21°C	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	13.5591	41.75	19.70	61.45	124.00	-62.55	H

Temperature:	21°C	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC V



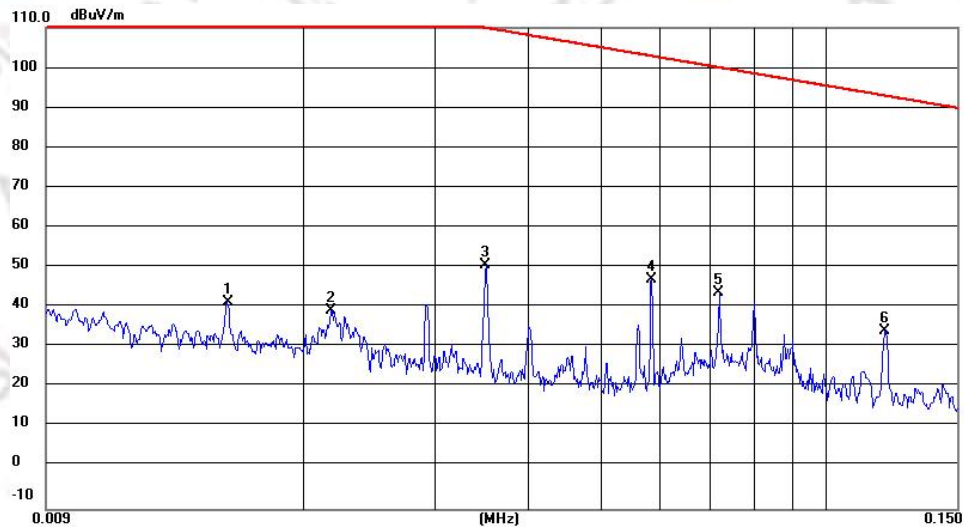
Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	13.5591	39.41	19.70	59.11	124.00	-64.89	V

Radiated Spurious Emission

(9kHz~150kHz)

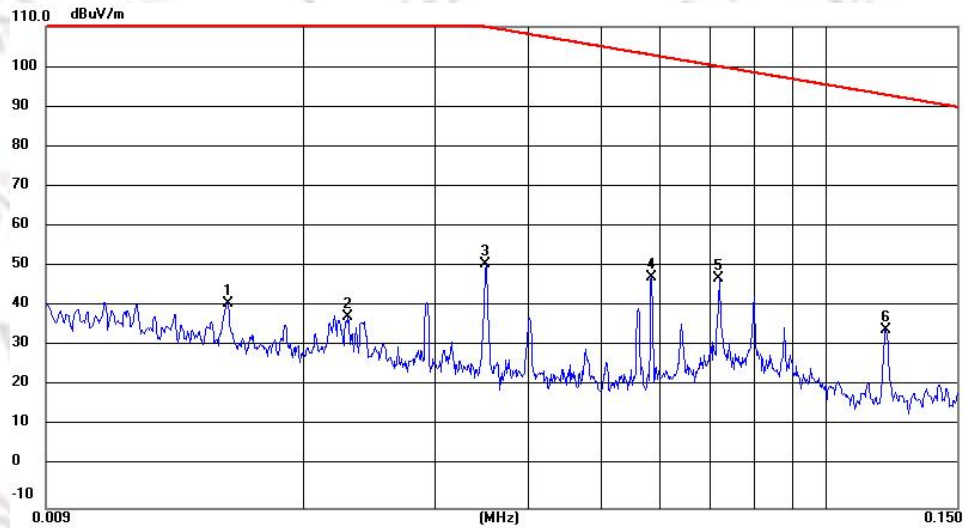
Temperature:	21℃	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.0157	7.72	33.83	41.55	120.90	-79.35	H
2	0.0217	7.92	31.58	39.50	116.47	-76.97	H
3	0.0350	23.41	27.47	50.88	109.93	-59.05	H
4	0.0584	21.27	26.01	47.28	102.92	-55.64	H
5	0.0719	15.37	28.53	43.90	100.07	-56.17	H
6	0.1201	11.87	22.74	34.61	93.05	-58.44	H

Temperature:	21°C	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC V

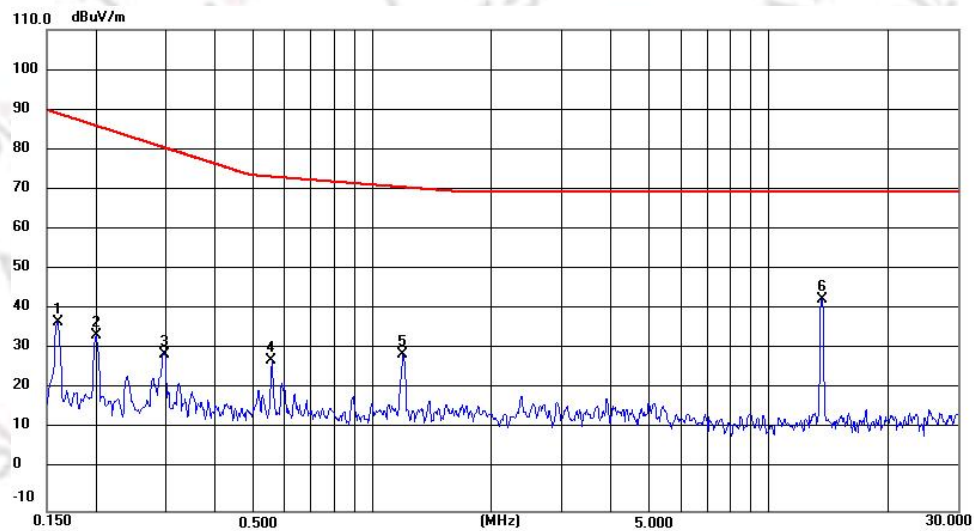


Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.0157	7.33	33.83	41.16	120.90	-79.74	V
2	0.0229	6.55	31.13	37.68	115.74	-78.06	V
3	0.0350	23.53	27.47	51.00	109.93	-58.93	V
4	0.0584	21.59	26.01	47.60	102.92	-55.32	V
5	0.0719	18.87	28.53	47.40	100.07	-52.67	V
6	0.1204	11.64	22.74	34.38	93.01	-58.63	V

(150kHz~30MHz)

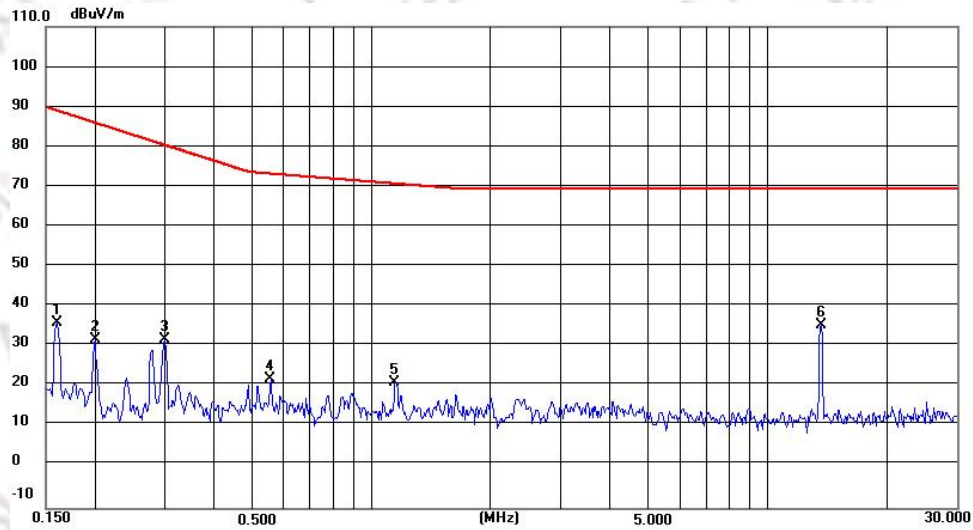
Temperature:	21℃	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.1600	14.78	22.52	37.30	89.12	-51.82	H
2	0.2000	11.55	22.30	33.85	86.07	-52.22	H
3	0.2970	7.48	21.77	29.25	80.65	-51.40	H
4	0.5550	6.14	21.67	27.81	73.37	-45.56	H
5	1.1910	7.28	21.74	29.02	70.77	-41.75	H
6	13.6230	23.21	19.70	42.91	69.54	-26.63	H

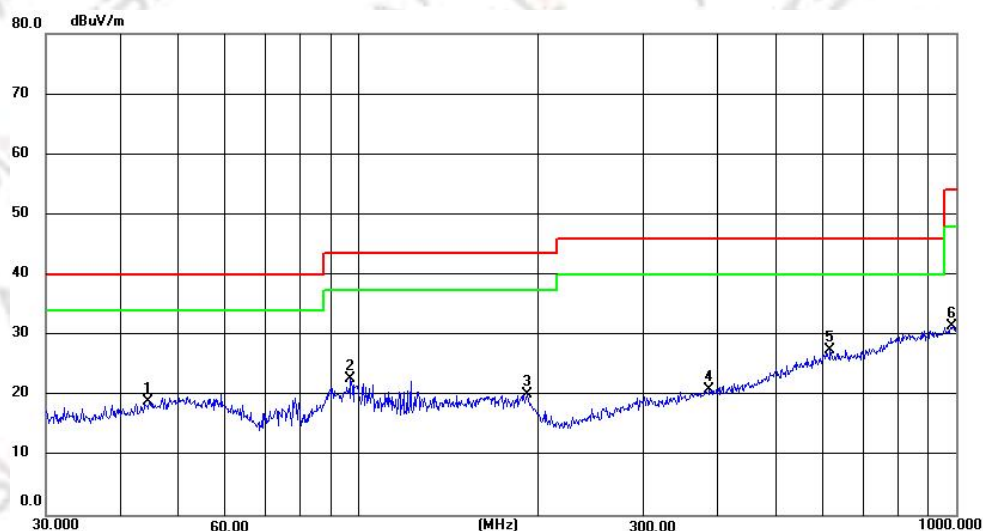
Temperature:	21°C	Relative Humidity:	43%
Test Voltage:	DC 12V	Test Mode:	NFC V



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.1600	13.86	22.52	36.38	89.12	-52.74	V
2	0.2000	9.89	22.30	32.19	86.07	-53.88	V
3	0.2990	10.35	21.75	32.10	80.56	-48.46	V
4	0.5550	0.59	21.67	22.26	73.37	-51.11	V
5	1.1470	-0.35	21.75	21.40	70.89	-49.49	V
6	13.6230	15.88	19.70	35.58	69.54	-33.96	V

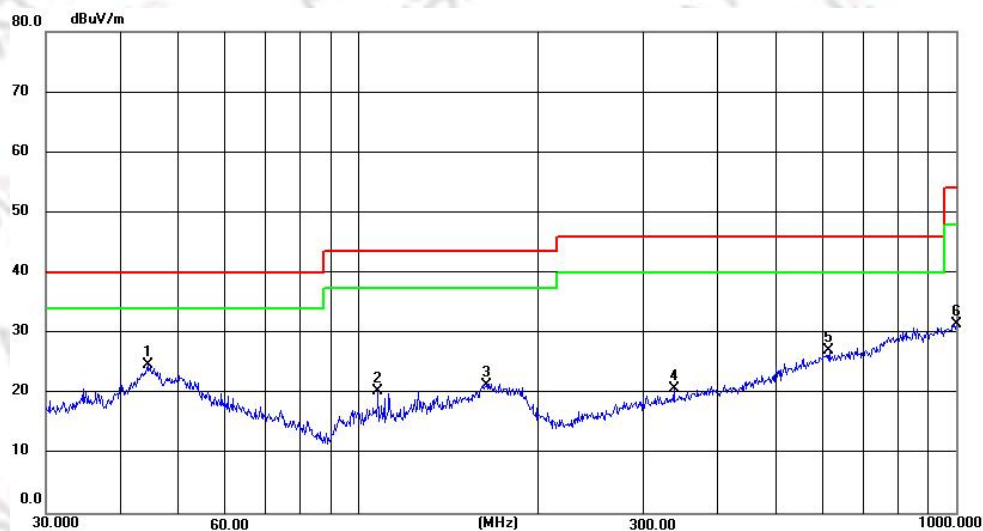
Temperature:	26°C	Relative Humidity:	45%
Test Voltage:	DC 12V from Adapter	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	44.7430	30.21	-11.32	18.89	40.00	-21.11	H
2	97.1150	52.68	-30.04	22.64	43.50	-20.86	H
3	191.7450	50.20	-30.08	20.12	43.50	-23.38	H
4	386.6340	51.60	-30.75	20.85	46.00	-25.15	H
5	616.3720	56.38	-28.79	27.59	46.00	-18.41	H
6	989.5350	60.26	-28.71	31.55	54.00	-22.45	H

Temperature:	26°C	Relative Humidity:	45%
Test Voltage:	DC 12V from Adapter	Test Mode:	NFC V



Test Summary Result

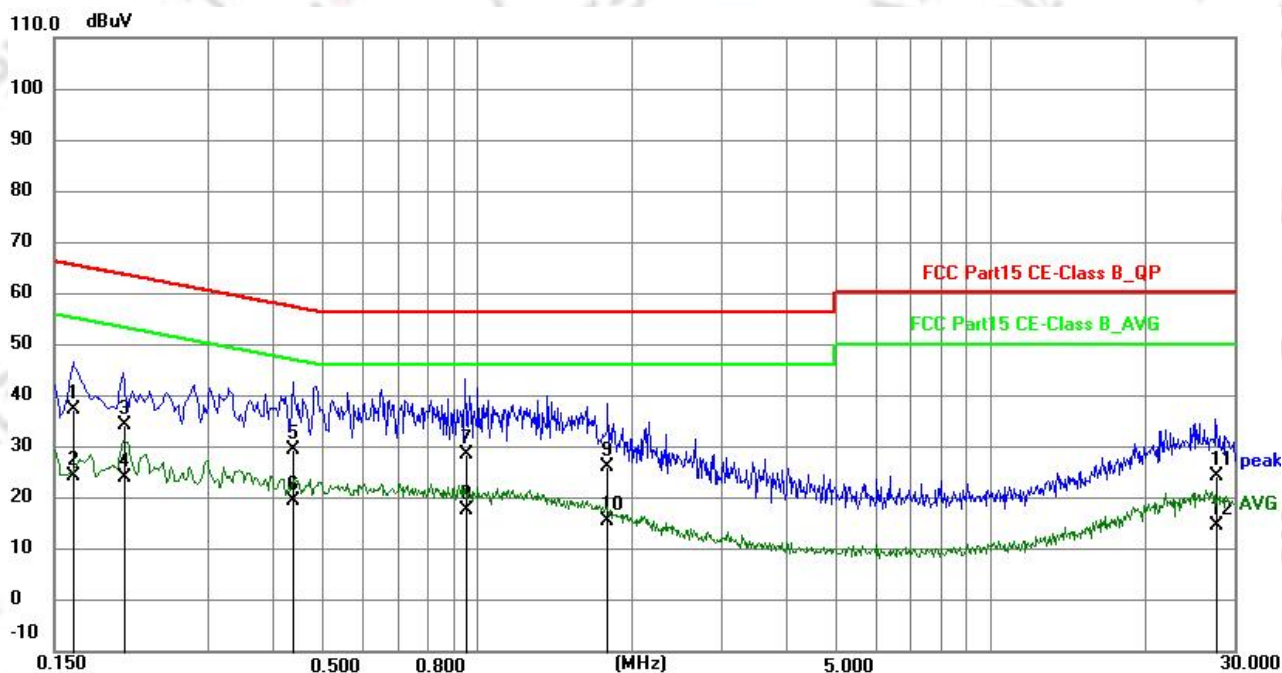
Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	44.5870	35.98	-11.35	24.63	40.00	-15.37	V
2	107.8880	50.01	-29.74	20.27	43.50	-23.23	V
3	163.7550	51.27	-29.97	21.30	43.50	-22.20	V
4	337.2160	51.15	-30.46	20.69	46.00	-25.31	V
5	614.2140	55.84	-28.80	27.04	46.00	-18.96	V
6	1000.0000	60.11	-28.71	31.40	54.00	-22.60	V

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.

AC Power-Line Conducted Emission Test Data

Temperature:	23.1°C	Relative Humidity:	37%
Phase:	L	Test Mode:	Working Mode
Test Voltage:	AC 120V/60Hz	Test Date:	2025.12.15

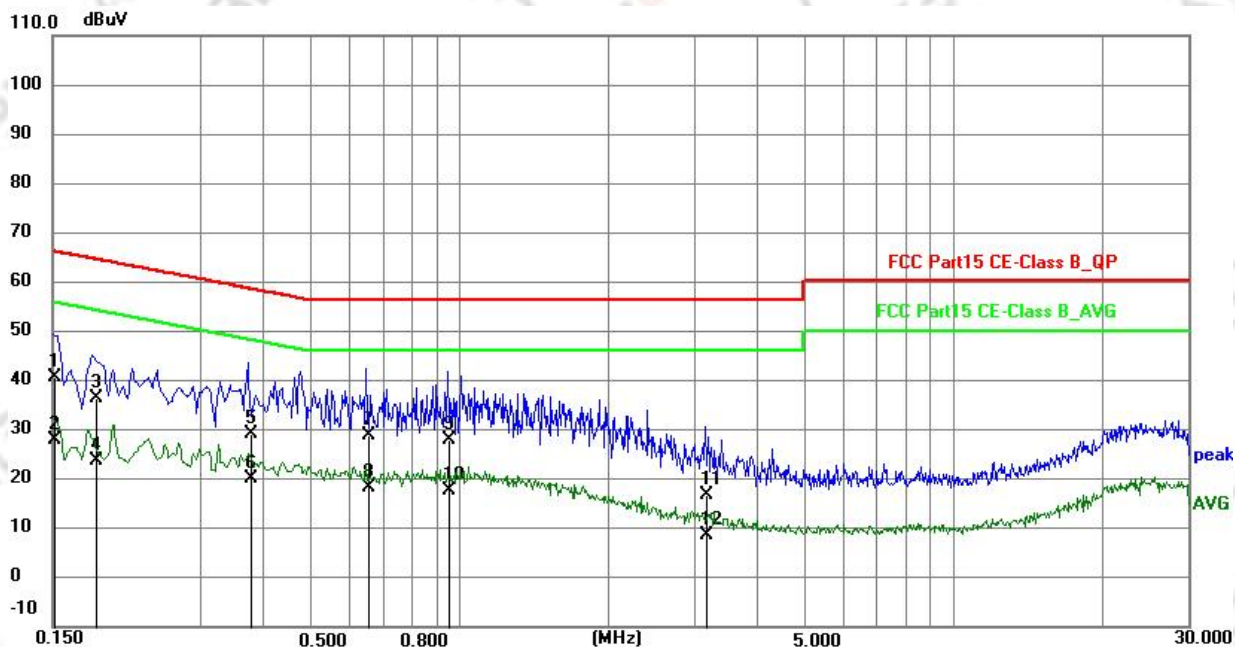


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1640	26.77	10.64	37.41	65.26	-27.85	QP
2	0.1640	13.67	10.64	24.31	55.26	-30.95	AVG
3	0.2040	23.56	10.59	34.15	63.45	-29.30	QP
4	0.2040	13.49	10.59	24.08	53.45	-29.37	AVG
5	0.4390	18.99	10.43	29.42	57.08	-27.66	QP
6	0.4390	9.01	10.43	19.44	47.08	-27.64	AVG
7	0.9530	18.15	10.41	28.56	56.00	-27.44	QP
8	0.9530	7.33	10.41	17.74	46.00	-28.26	AVG
9	1.7990	15.80	10.47	26.27	56.00	-29.73	QP
10	1.7990	5.11	10.47	15.58	46.00	-30.42	AVG
11	27.6110	9.35	14.90	24.25	60.00	-35.75	QP
12	27.6110	-0.16	14.90	14.74	50.00	-35.26	AVG

Remark:

- Margin = Result (Result = Reading + Factor) – Limit
- Factor = Cable Loss + Antenna Factor – Amplifier Gain

Temperature:	23.1℃	Relative Humidity:	37%
Phase:	N	Test Mode:	Working Mode
Test Voltage:	AC 120V/60Hz	Test Date:	2025.12.15



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1510	30.08	10.64	40.72	65.94	-25.22	QP
2	0.1510	17.23	10.64	27.87	55.94	-28.07	AVG
3	0.1840	25.84	10.60	36.44	64.30	-27.86	QP
4	0.1840	13.16	10.60	23.76	54.30	-30.54	AVG
5	0.3790	18.84	10.45	29.29	58.30	-29.01	QP
6	0.3790	9.51	10.45	19.96	48.30	-28.34	AVG
7	0.6520	18.57	10.39	28.96	56.00	-27.04	QP
8	0.6520	7.78	10.39	18.17	46.00	-27.83	AVG
9	0.9510	17.65	10.40	28.05	56.00	-27.95	QP
10	0.9510	7.18	10.40	17.58	46.00	-28.42	AVG
11	3.1719	6.16	10.57	16.73	56.00	-39.27	QP
12	3.1719	-2.08	10.57	8.49	46.00	-37.51	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Cable Loss +Antenna Factor–Amplifier Gain

.*****END OF THE Appendix A2*****