

FCC EMC Test Report

Report No.: JYTSZ-R01-2500248

Applicant: SDF Inc

Address of Applicant: 8609 Westwood Center Dr., Suite 110, Tysons Corner, VA
22182, USA

Equipment Under Test (EUT)

Product Name: PIZZA BOX SYSTEM

Model No.: GRD-8SDR-PIZZA

Trade Mark: SDF

FCC ID: 2BFW7GRD-8SDR-PIZZA

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 20 May, 2025

Date of Test: 21 May, to 13 Jun., 2025

Date of report Issued: 23 Jun., 2025

Test Result: PASS

Project by: _____

Date: 23 Jun., 2025

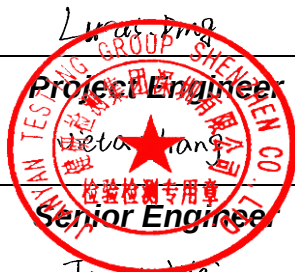
Reviewed by: _____

Date: 23 Jun., 2025

Approved by: _____

Date: 23 Jun., 2025

Manager



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	13 Jun., 2025	Original
01	23 Jun., 2025	Update the product name.

2 Contents

Page

Cover Page	1
1 Version	2
2 Contents.....	3
3 General Information.....	4
3.1 Client Information	4
3.2 General Description of E.U.T.	4
3.3 Test Mode	4
3.4 Description of Test Auxiliary Equipment	5
3.5 Description of Cable Used.....	5
3.6 Measurement Uncertainty	5
3.7 Additions to, Deviations, or Exclusions from the Method	5
3.8 Laboratory Facility	5
3.9 Laboratory Location.....	6
3.10 Test Instruments List.....	6
4 Measurement Setup and Procedure	7
4.1 Test Setup	7
4.2 Test Procedure	9
5 Test Results.....	10
5.1 Summary	10
5.1.1 Clause and data summary	10
5.1.2 Test Limit.....	10
5.2 Conducted Emission	11
5.3 Radiated Emission	13

3 General Information

3.1 Client Information

Applicant:	SDF Inc
Address:	8609 Westwood Center Dr., Suite 110, Tysons Corner, VA 22182, USA
Manufacturer/ Factory:	Septier Communication Ltd.
Address:	35 Efal st. Petah Tikwa, Israel

3.2 General Description of E.U.T.

Product Name:	PIZZA BOX SYSTEM
Model No.:	GRD-8SDR-PIZZA
Power Supply:	AC 90 – 230V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
Working Mode	Keep the EUT LTE link + display+LAN Link+Mouse and keyboard mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lecoo	Display screen	HU20270BF	GK1PRA60	DoC
Lecoo	Mouse	/	/	DoC
Lecoo	keyboard	/	/	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
N/A	N/A	N/A	N/A	N/A

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.4 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	±4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	±4.3 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	01-02-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-15-2025	01-14-2026
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	05-08-2025	05-07-2026
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-17-2024	12-16-2025
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-17-2024	12-16-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-15-2025	01-14-2026
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

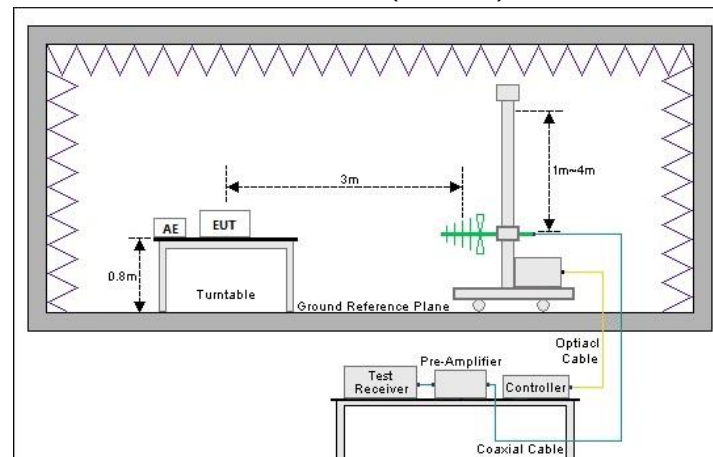
1) Conducted emission measurement:

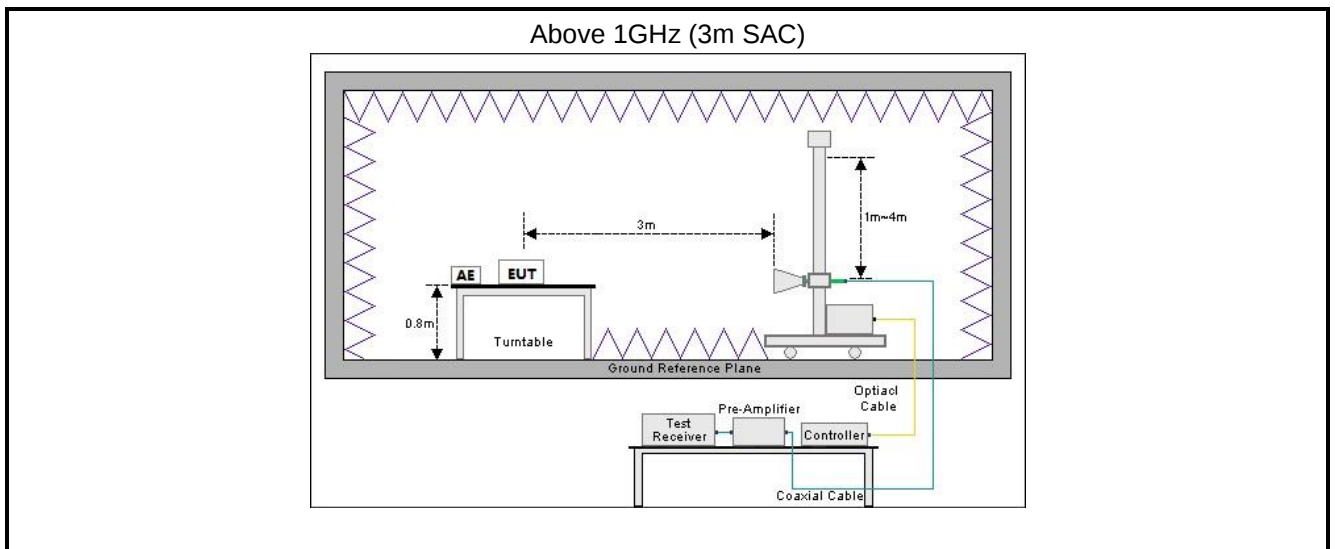


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)





4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

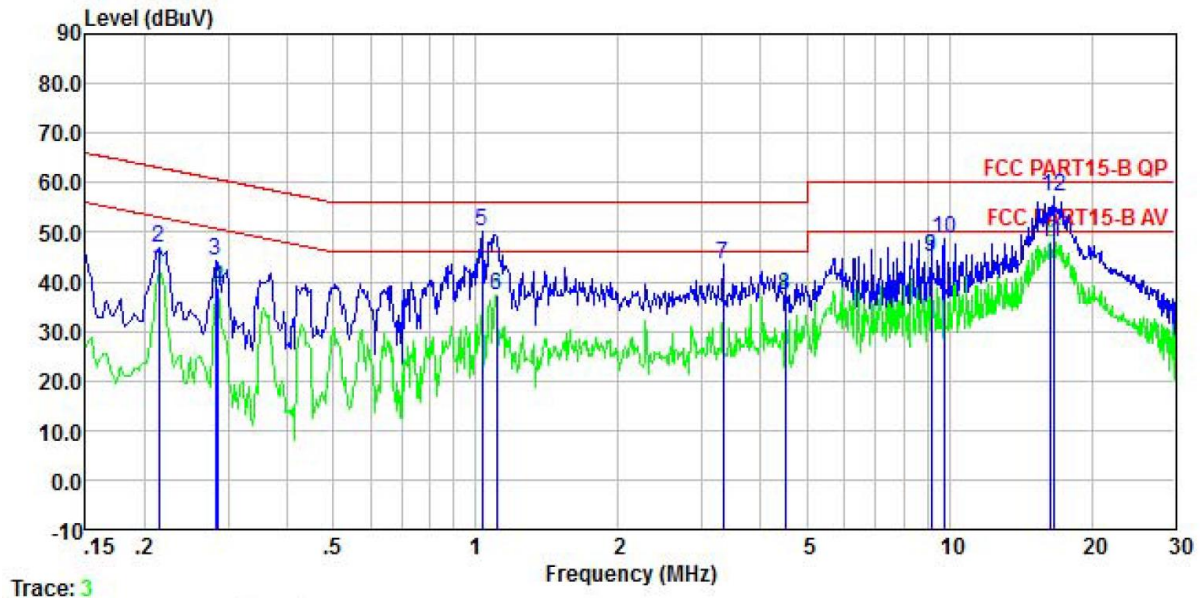
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test Method:	ANSI C63.4:2014		

5.1.2 Test Limit

Test items	Limit																																																					
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="5">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.					Note 2: The more stringent limit applies at transition frequencies.																							
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5.2 Conducted Emission

Product name:	PIZZA BOX SYSTEM	Product model:	GRD-8SDR-PIZZA
Test by:	Kiran Zeng	Test mode:	Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

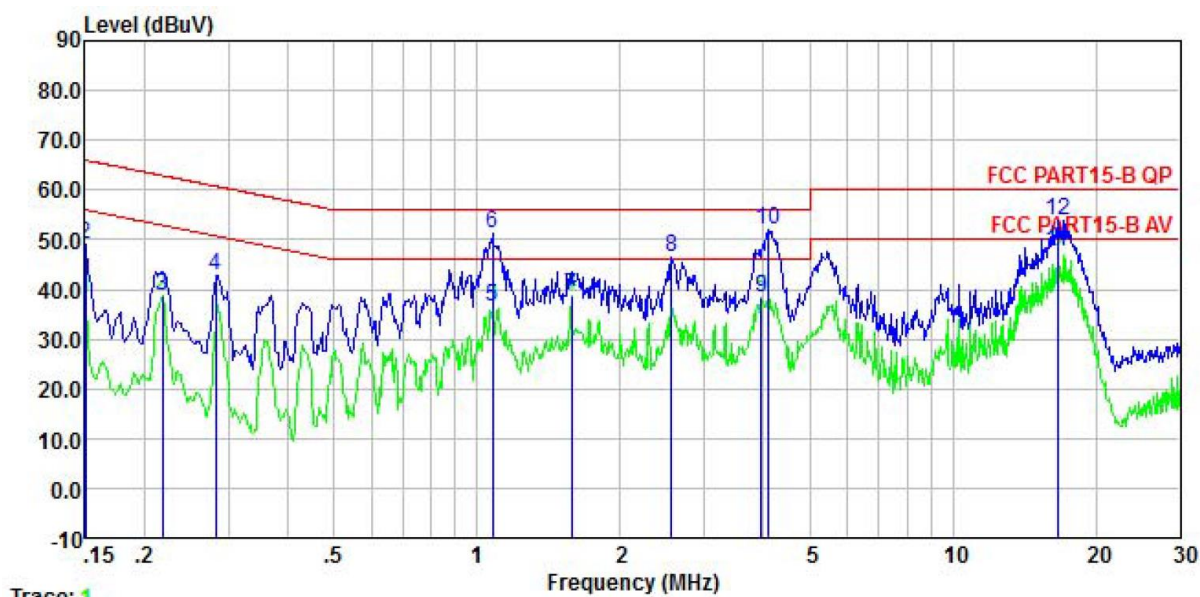


	Read Freq	Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.214	22.57	10.10	0.00	9.88	0.03	42.58	53.05	-10.47	Average
2	0.214	26.66	10.10	0.00	9.88	0.03	46.67	63.05	-16.38	QP
3	0.282	24.16	10.10	0.00	9.88	0.02	44.16	60.76	-16.60	QP
4	0.286	18.56	10.10	0.00	9.88	0.03	38.57	50.63	-12.06	Average
5	1.032	29.98	10.20	0.00	9.88	0.06	50.12	56.00	-5.88	QP
6	1.106	17.06	10.19	0.00	9.88	0.07	37.20	46.00	-8.80	Average
7	3.328	23.13	10.23	0.00	9.89	0.07	43.32	56.00	-12.68	QP
8	4.501	16.93	10.20	0.00	9.89	0.09	37.11	46.00	-8.89	Average
9	9.156	24.75	10.32	0.00	9.91	0.11	45.09	50.00	-4.91	Average
10	9.757	28.19	10.31	0.00	9.91	0.13	48.54	60.00	-11.46	QP
11	16.398	27.23	10.67	0.00	9.94	0.16	48.00	50.00	-2.00	Average
12	16.573	36.38	10.66	0.00	9.94	0.16	57.14	60.00	-2.86	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	PIZZA BOX SYSTEM	Product model:	GRD-8SDR-PIZZA
Test by:	Kiran Zeng	Test mode:	Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 1

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	18.35	10.20	0.00	9.88	0.01	38.44	56.00	-17.56	Average
2	0.150	28.78	10.20	0.00	9.88	0.01	48.87	66.00	-17.13	QP
3	0.219	18.55	10.19	0.00	9.88	0.03	38.65	52.88	-14.23	Average
4	0.282	22.81	10.15	0.00	9.88	0.02	42.86	60.76	-17.90	QP
5	1.077	16.16	10.21	0.00	9.88	0.07	36.32	46.00	-9.68	Average
6	1.077	31.02	10.21	0.00	9.88	0.07	51.18	56.00	-4.82	QP
7	1.577	18.25	10.27	0.00	9.88	0.16	38.56	46.00	-7.44	Average
8	2.567	26.29	10.24	0.00	9.88	0.12	46.53	56.00	-9.47	QP
9	3.964	18.08	10.20	0.00	9.89	0.08	38.25	46.00	-7.75	Average
10	4.092	31.87	10.20	0.00	9.89	0.08	52.04	56.00	-3.96	QP
11	16.573	26.76	10.60	0.00	9.94	0.16	47.46	50.00	-2.54	Average
12	16.573	33.12	10.60	0.00	9.94	0.16	53.82	60.00	-6.18	QP

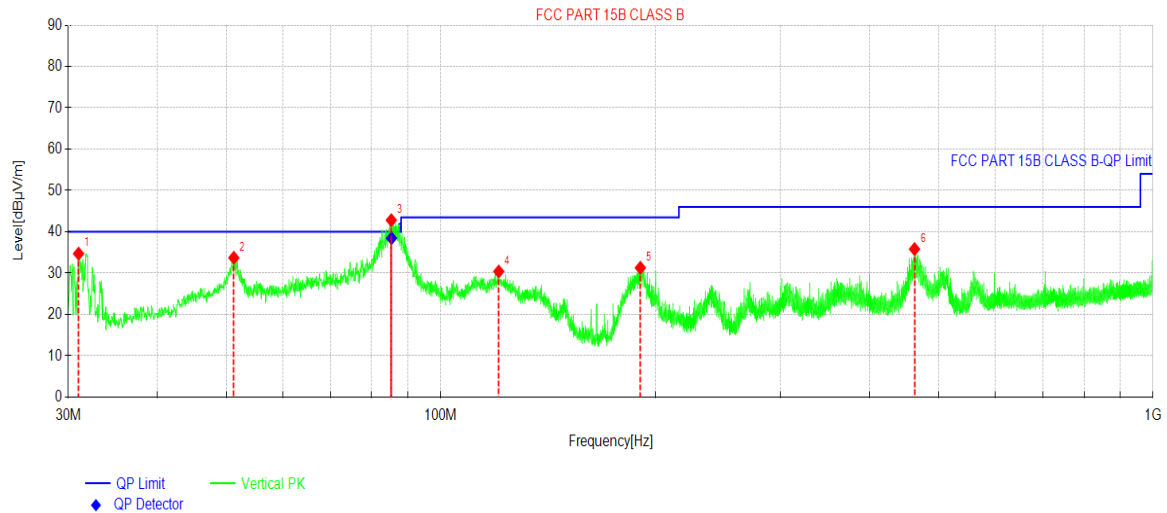
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	PIZZA BOX SYSTEM	Product Model:	GRD-8SDR-PIZZA
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading[dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	31.0186	50.26	-15.55	34.71	40.00	5.29	PK	Vertical
2	51.2441	46.15	-12.44	33.71	40.00	6.29	PK	Vertical
3	85.2443	60.24	-17.43	42.81	40.00	-2.81	PK	Vertical
4	120.6510	46.69	-16.28	30.41	43.50	13.09	PK	Vertical
5	190.6885	46.76	-15.46	31.30	43.50	12.20	PK	Vertical
6	462.6416	45.41	-9.59	35.82	46.00	10.18	PK	Vertical

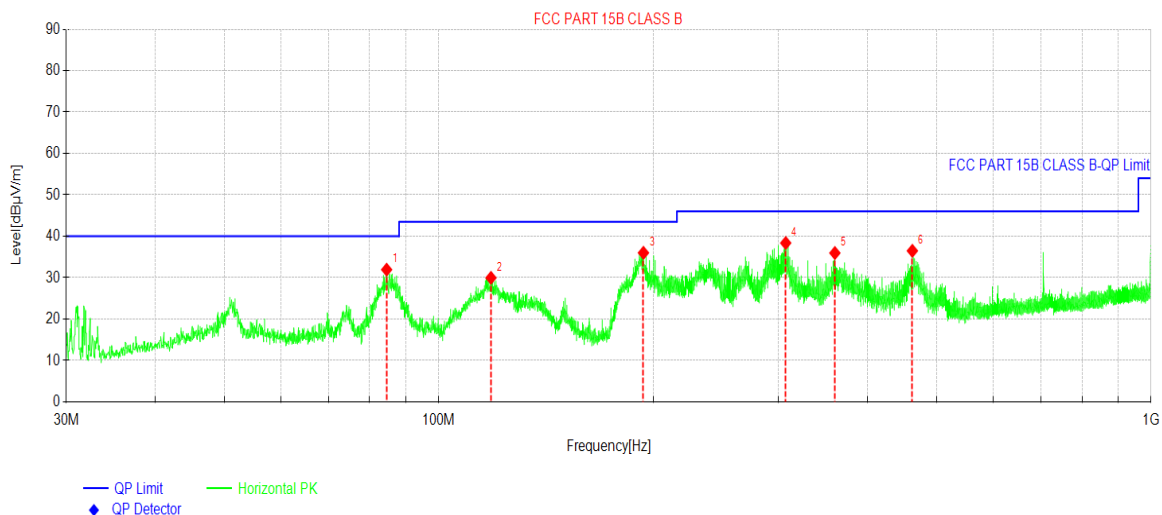
Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Angle [°]	Verdict
1	85.2962	55.88	-17.43	38.45	40.00	1.55	153.5	PASS

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	PIZZA BOX SYSTEM	Product Model:	GRD-8SDR-PIZZA
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

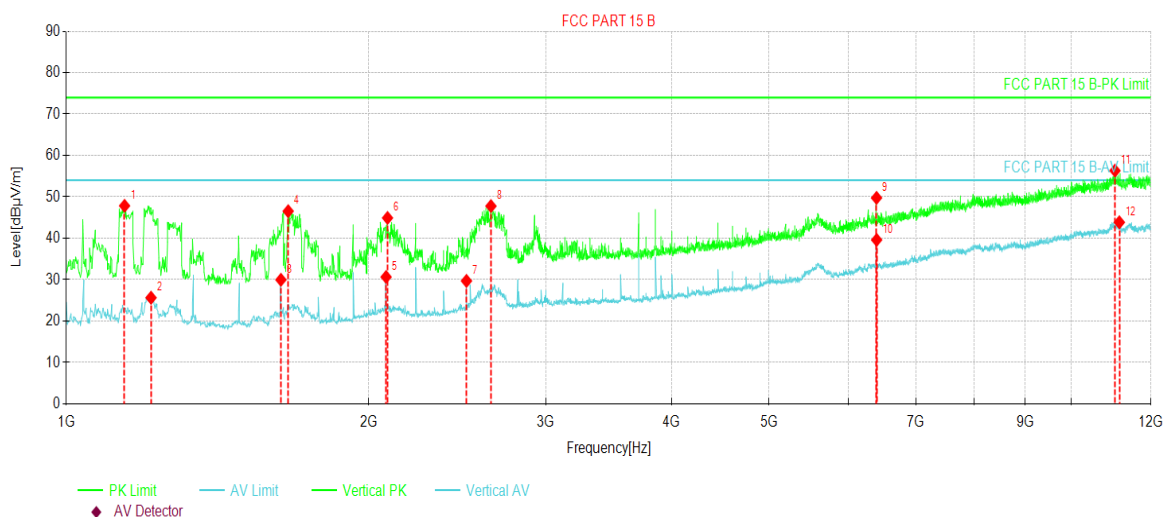
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	84.5167	49.52	-17.59	31.93	40.00	8.07	PK	Horizontal
2	118.4199	45.88	-15.92	29.96	43.50	13.54	PK	Horizontal
3	193.8412	51.20	-15.20	36.00	43.50	7.50	PK	Horizontal
4	307.0459	51.01	-12.64	38.37	46.00	7.63	PK	Horizontal
5	359.9620	47.24	-11.29	35.95	46.00	10.05	PK	Horizontal
6	462.3991	46.07	-9.59	36.48	46.00	9.52	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	PIZZA BOX SYSTEM	Product Model:	GRD-8SDR-PIZZA
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 12000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



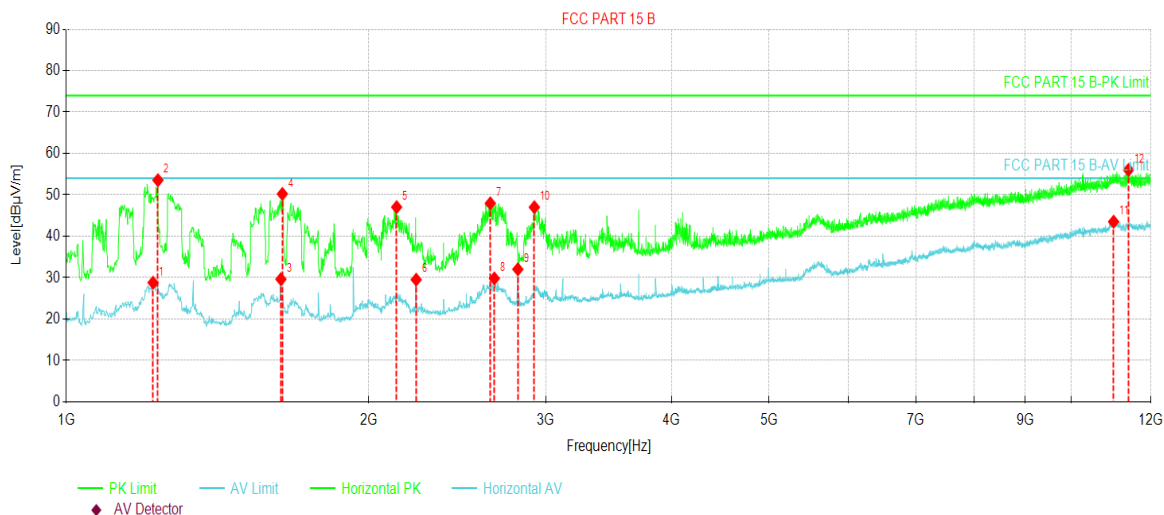
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1143.0000	70.42	47.84	-22.58	74.00	26.16	PK	Vertical
2	1214.5000	48.37	25.64	-22.73	54.00	28.36	AV	Vertical
3	1635.2500	52.34	29.97	-22.37	54.00	24.03	AV	Vertical
4	1662.7500	68.82	46.54	-22.28	74.00	27.46	PK	Vertical
5	2080.7500	51.06	30.66	-20.40	54.00	23.34	AV	Vertical
6	2087.6250	65.29	44.91	-20.38	74.00	29.09	PK	Vertical
7	2501.5000	48.18	29.70	-18.48	54.00	24.30	AV	Vertical
8	2645.8750	65.79	47.77	-18.02	74.00	26.23	PK	Vertical
9	6399.6250	54.03	49.76	-4.27	74.00	24.24	PK	Vertical
10	6401.0000	43.88	39.61	-4.27	54.00	14.39	AV	Vertical
11	11049.8750	50.57	56.33	5.76	74.00	17.67	PK	Vertical
12	11161.2500	38.33	43.86	5.53	54.00	10.14	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Product Name:	PIZZA BOX SYSTEM	Product Model:	GRD-8SDR-PIZZA
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 12000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1220.0000	51.51	28.80	-22.71	54.00	25.20	AV	Horizontal
2	1233.7500	76.20	53.54	-22.66	74.00	20.46	PK	Horizontal
3	1635.2500	52.00	29.63	-22.37	54.00	24.37	AV	Horizontal
4	1640.7500	72.58	50.23	-22.35	74.00	23.77	PK	Horizontal
5	2131.6250	67.29	47.04	-20.25	74.00	26.96	PK	Horizontal
6	2229.2500	49.43	29.53	-19.90	54.00	24.47	AV	Horizontal
7	2641.7500	65.98	47.95	-18.03	74.00	26.05	PK	Horizontal
8	2666.5000	47.77	29.82	-17.95	54.00	24.18	AV	Horizontal
9	2813.6250	49.53	32.03	-17.50	54.00	21.97	AV	Horizontal
10	2922.2500	64.18	47.02	-17.16	74.00	26.98	PK	Horizontal
11	11015.5000	37.69	43.52	5.83	54.00	10.48	AV	Horizontal
12	11397.7500	49.94	56.03	6.09	74.00	17.97	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

-----End of report-----