

TEST REPORT

Applicant:	ALOGIC Corporation Pty Ltd.			
Address of Applicant:	Level 40, 140 William Street Melbourne, VIC Australia			
Manufacturer	ALOGIC Corporation Pty Ltd.			
Address of Manufacturer: Equipment Under Test (E	Level 40, 140 William Street Melbourne, VIC Australia			
Product Name:	Elite Power Laptop Stand with Wireless Charger			
Model No.:	EPLSWCBK, EPLSWCWH, EPLSWCSG, EPLSWCXX (XX represent color)			
FCC ID:	2ATCA-EPLSWC			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C			
Date of sample receipt:	2023.03.20			
Date of Test:	2023.03.23~2023.04.05			
Date of report issued:	2023.04.07			
Test Result :	PASS *			

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 19



2 Version

Version No.	Date	Description
00	2023.04.07	Original

Prepared By:

handlu Date:

2023.04.07

Project Engineer

Check By:

songling abile

Date:

2023.04.07

Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Radiated Emission	15.209	Pass
20dB Bandwidth	15.215	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty			
Radiated Emission	9kHz-30MHz	3.1dB			
Radiated Emission	30MHz-200MHz	3.8039dB			
Radiated Emission	200MHz-1GHz	3.9679dB			
Radiated Emission	1GHz-18GHz	4.29dB			
Radiated Emission	18GHz-40GHz	3.30dB			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB			
Occupied Bandwidth	/	±3%			
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					



5 General Information

5.1 General Description of EUT

Product Name:	Elite Power Laptop Stand with Wireless Charger		
Model No.:	EPLSWCBK		
Serial No.:	EPLSWCWH, EPLSWCSG, EPLSWCXX(XX represent color)		
Model difference:	Only the model name and colors are different		
Brand name:	ALOGIC, JOURNEY, JR-NY		
Test sample(s) ID:	GTSL2023040468-1		
Sample(s) Status	Engineer sample		
Operation Frequency:	110.5kHz~205kHz		
Modulation type:	ASK		
Antenna Type:	Internal Antenna		
Antenna gain:	0dBi (by the applicant)		
Power supply:	DC 9.0V from USB-C Port		

5.2 Test mode

	Wireless charging mode	Keep the EUT in wireless charging status. Wireless output 10W mode is worse case and reported.
5.3	Description of Support Un	its

Manufacturer	Description	Model	S/N
EESON	Wireless charger load	SLY-YZB-A01	1
Huawei	Adapter	HW-050450C00	/

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

5.6 Test Facility

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

FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.8 Other Information Requested by the Customer

None.



6 Test Instruments list

Rad	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025			
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A			
	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023			
4	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 30, 2022	Nov. 29, 2023			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 20, 2023	March 19, 2025			
6	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023			
7	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023			
8	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023			
9	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023			

Con	Conducted Emission							
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 14, 2022	May 13, 2025		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023		
3	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023		
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

RF	RF Conducted Test:							
Iter	n Test Equipment	Manufacturer	Model No.	lel No. Serial No. Cal.I (mm-c		Cal.Due date (mm-dd-yy)		
1	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023		

Gene	General used equipment:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023					
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023					



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203									
15.203 requirement:									
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.									
The ant is inductance coil antenna, reference to the appendix II for details.									
e									



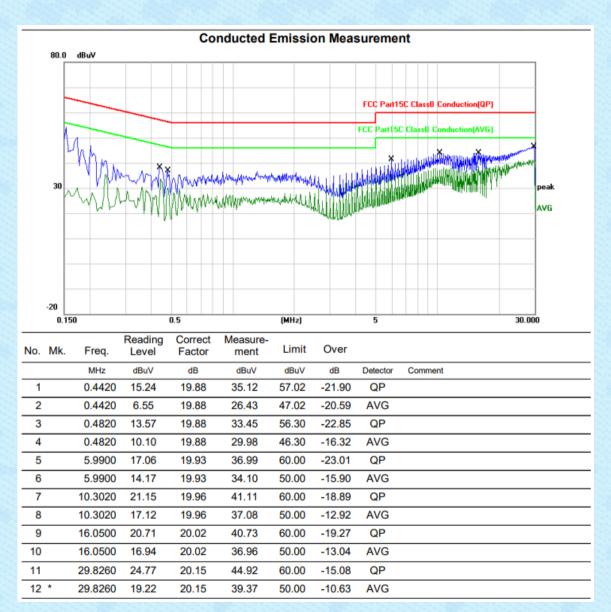
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207									
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	150KHz to 30MHz									
Class / Severity:	Class B									
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto									
Limit:	Limit (dBuV)									
		Average								
		6 to 46*								
	0.5-5 56	46								
	5-30 60	50								
Test setup:	* Decreases with the logarithm of the frequency. Reference Plane									
Test procedure:	Image: Lish docs and simulators are connected to the main power line impedance stabilization network (L.I.S.N.). This prov									
	 Soohm/50uH coupling impedance for the measuring equility soohm/50uH coupling impedance for the measuring equility. The peripheral devices are also connected to the main publics. The peripheral devices are also connected to the main publics. The peripheral devices are also connected to the main publics. The peripheral devices are also connected to the main publics. The peripheral devices are also connected to the main public termination. (Please refer to the block diagram of the test photographs). Both sides of A.C. line are checked for maximum conduct interference. In order to find the maximum emission, the positions of equipment and all of the interface cables mu according to ANSI C63.10 on conducted measurement. 	ipment. ower through a vith 50ohm t setup and cted relative								
Test Instruments:	Refer to section 6.0 for details									
Test mode:	Refer to section 5.2 for details. Only show the worst cas 5W wireless charging load).	(Charging with								
Test environment:	Temp.:25 °CHumid.:52%Press.:	1012mbar								
Test voltage:	AC 120V, 60Hz									
Test results:	Pass									

Report No.: GTSL2023040468F01

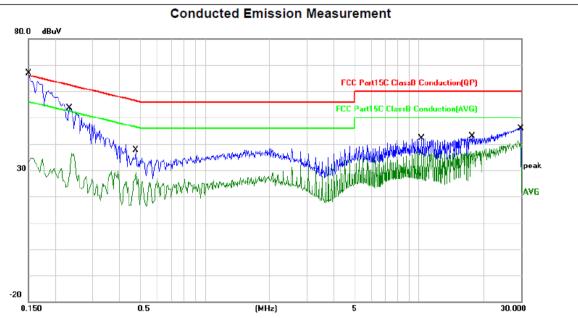
Measurement data:

Line:



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Neutral:



No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	38.01	19.88	57.89	66.00	-8.11	QP	
2	0.1500	15.58	19.88	35.46	56.00	-20.54	AVG	
3	0.2340	15.91	19.88	35.79	62.31	-26.52	QP	
4	0.2340	8.78	19.88	28.66	52.31	-23.65	AVG	
5	0.4780	13.73	19.88	33.61	56.37	-22.76	QP	
6	0.4780	9.75	19.88	29.63	46.37	-16.74	AVG	
7	10.2980	19.02	19.96	38.98	60.00	-21.02	QP	
8	10.2980	15.69	19.96	35.65	50.00	-14.35	AVG	
9	17.7180	19.91	20.04	39.95	60.00	-20.05	QP	
10	17.7180	16.19	20.04	36.23	50.00	-13.77	AVG	
11	29.9380	23.62	20.15	43.77	60.00	-16.23	QP	
12	29.9380	18.04	20.15	38.19	50.00	-11.81	AVG	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Radiated Emission Method

	Test Requirement:	FCC Part15 C Section 15.209								
	Test Method:	ANSI C63.10:201	3							
	Test Frequency Range:	9kHz to 1GHz					STREET.			
	Test site:	Measurement Dis	stance: 3m							
	Receiver setup:	Frequency	Detector		RBW VBW		Remark			
		9kHz - 30MHz	Quasi-pea		10kHz	30kHz	Quasi-peak Value			
		30MHz-1GHz	Quasi-pea		120kHz	300kHz	Quasi-peak Value			
		Above 1GHz	Peak AV		1MHz 1MHz	3MHz 10Hz	Peak Value Average Value			
		Remark: For the					kHz and above 1000			
		MHz. Radiated e								
		measurements e	mploying an	n aver	rage dete	ctor.				
	Limit:	Limits for freque	ency below	30M	Hz					
	(Spurious Emissions)	Frequency	Limit (uV	222-2		urement ance(m)	Remark			
		0.009-0.490	2400/F(k			300	Quasi-peak Value			
		0.490-1.705	24000/F(k	(Hz)		30	Quasi-peak Value			
2		1.705-30	30			30	Quasi-peak Value			
		Limits for freque				(m @2m)	Domork			
		Frequen 30MHz-88		Lim	hit (dBuV/ 40.0	,	Remark Quasi-peak Value			
		88MHz-216					Quasi-peak Value			
		216MHz-96		1200	46.0		Quasi-peak Value			
		960MHz-1		1000	54.0		Quasi-peak Value			
		Above 10	Hz	Hz		0	Average Value			
		74.00 Peak Value Remark: The emission limits shown in the above table are based on								
		measurements e					000 MHz. Radiated			
		emission limits in								
		employing an ave	erage detect	tor.						
	Test Procedure:					•	0.8 meters above the			
							360 degrees to			
		determine the	·							
		2. The EUT was					le-height antenna			
		tower.	n was moun	neu o	in the top		no noight antenna			
		3. The antenna h	eight is vari	ied fro	om one m	neter to fou	r meters above the			
							strength. Both			
		horizontal and measurement.		arizat	tions of th	ne antenna	are set to make the			
					the EUT	was arrang	ed to its worst case			
							neter to 4 meters			
1					•		0 degrees to find the			
		maximum read			a de la					
		5. The test-receiv Bandwidth with				k Detect Fu	unction and Specified			
		6. If the emission	level of the	EUT	in peak	mode was	10dB lower than the			
		6. If the emission level of the EUT in peak mode was 10dB lower than the								



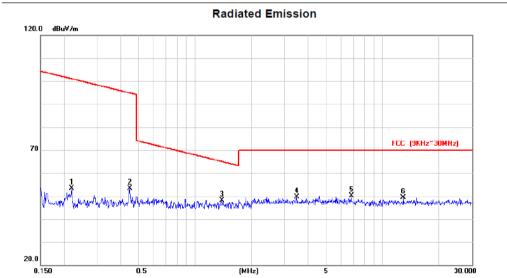
	Report No.: GTSL2023040468F01
	 limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test setup:	Below 30MHz
	< 3m >
	30MHz ~ 1000MHz
	< 3m > + + + + $Test Antennav}$ < 1m 4m >v < 80cm >v
Toot Instrumente:	Receiver Preamplifier
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details. Only show the worst cas (Charging with 5W wireless charging load).
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass

Measurement data: Below 30MHz

Report No.: GTSL2023040468F01

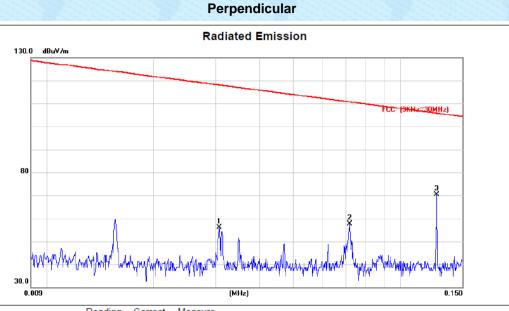
Parallel Radiated Emission 130.0 dBu∀/m FCC | 3KHz:(30MHz) 80 White Marker Mark haiti 30.0 0.150 0.009 (MHz) Reading Correct Measure-No Mk Limit Over Eroo

INO. IVIK.	Fleq.	Level	Factor	ment	Linne	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	0.0307	34.22	19.39	53.61	117.73	-64.12	peak
2	0.0720	33.91	19.33	53.24	110.36	-57.12	peak
3 *	0.1270	49.15	19.27	68.42	105.46	-37.04	peak

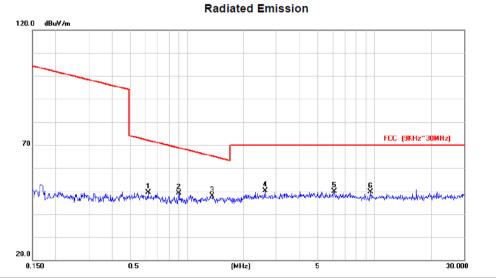


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	0.2196	34.04	19.31	53.35	100.73	-47.38	peak
2	0.4492	34.12	19.36	53.48	94.55	-41.07	peak
3 *	1.3958	28.68	19.44	48.12	64.71	-16.59	peak
4	3.4906	30.24	19.49	49.73	69.54	-19.81	peak
5	6.8051	31.04	19.16	50.20	69.54	-19.34	peak
6	12.9200	29.96	19.31	49.27	69.54	-20.27	peak

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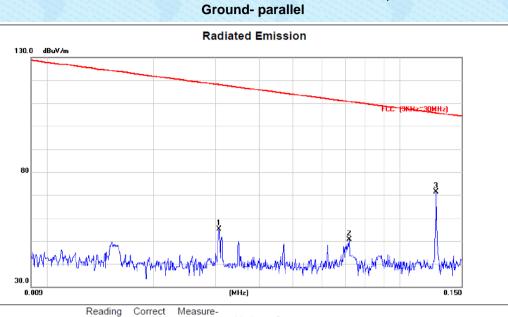
MHz dBuV dB/m dBuV/m dBuV/m dB Detector	INO.		Reading Correct Level Factor		Limit	Over	
		MHz	dBuV dB/m	dBuV/m	dBuV/m	dB	Detector
1 0.0307 36.72 19.39 56.11 117.73 -61.62 peak	1	0.0307	36.72 19.39	56.11	117.73	-61.62	peak
2 0.0720 38.41 19.33 57.74 110.36 -52.62 peak	2	0.0720	38.41 19.33	57.74	110.36	-52.62	peak
3 * 0.1270 51.15 19.27 70.42 105.46 -35.04 peak	3	* 0.1270	51.15 19.27	70.42	105.46	-35.04	peak



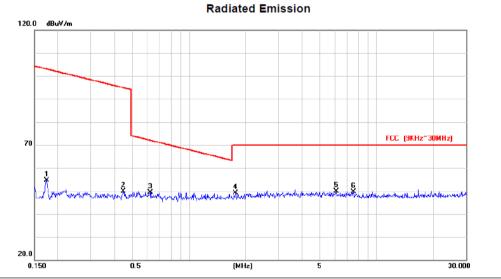
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	0.6205	30.07	19.38	49.45	71.75	-22.30	peak
2	0.9040	29.65	19.38	49.03	68.48	-19.45	peak
3 *	1.3665	28.55	19.43	47.98	64.89	-16.91	peak
4	2.6082	30.63	19.49	50.12	69.54	-19.42	peak
5	6.0885	30.63	19.26	49.89	69.54	-19.65	peak
6	9.5016	30.23	19.29	49.52	69.54	-20.02	peak

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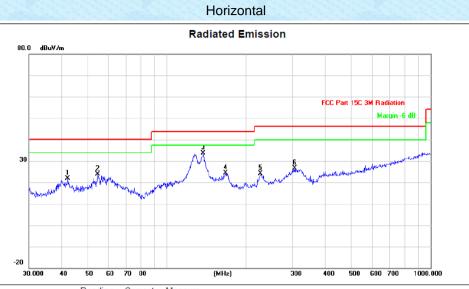
No. Mk.	Freq.			Measure- ment	Limit	Over			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector		
1	0.0307	35.72	19.39	55.11	117.73	-62.62	peak		
2	0.0720	31.41	19.33	50.74	110.36	-59.62	peak		
3 *	0.1270	52.15	19.27	71.42	105.46	-34.04	peak		
-									



	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
	1	0.1740	35.46	19.29	54.75	102.74	-47.99	peak
1	2	0.4468	30.52	19.36	49.88	94.60	-44.72	peak
	3	0.6205	30.07	19.38	49.45	71.75	-22.30	peak
	4	1.7716	29.66	19.50	49.16	69.54	-20.38	peak
1	5 *	6.0885	30.63	19.26	49.89	69.54	-19.65	peak
	6	7.5258	30.61	19.14	49.75	69.54	-19.79	peak

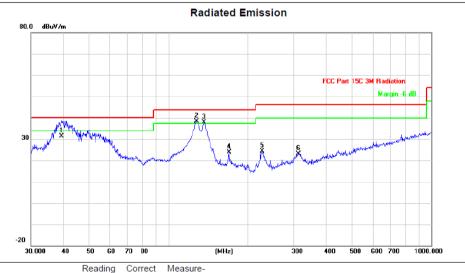
30MHz ~ 1GHz

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1	42.1541	32.40	-10.64	21.76	40.00	-18.24	peak	
2	54.6428	35.05	-11.24	23.81	40.00	-16.19	peak	
3 *	137.4202	43.49	-9.87	33.62	43.50	-9.88	peak	
4	167.2366	34.15	-9.84	24.31	43.50	-19.19	peak	
5	226.0994	34.50	-10.46	24.04	46.00	-21.96	peak	
6	305.6800	34.74	-8.13	26.61	46.00	-19.39	peak	





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector			
1		39.2991	42.23	-10.73	31.50	40.00	-8.50	QP			
2	*	128.1130	48.91	-10.43	38.48	43.50	-5.02	peak			
3	ļ.	136.4598	47.73	-9.93	37.80	43.50	-5.70	peak			
4		170.1947	33.85	-10.06	23.79	43.50	-19.71	peak			
5		227.6905	34.78	-10.38	24.40	46.00	-21.60	peak			
6		313.2760	31.12	-7.96	23.16	46.00	-22.84	peak			



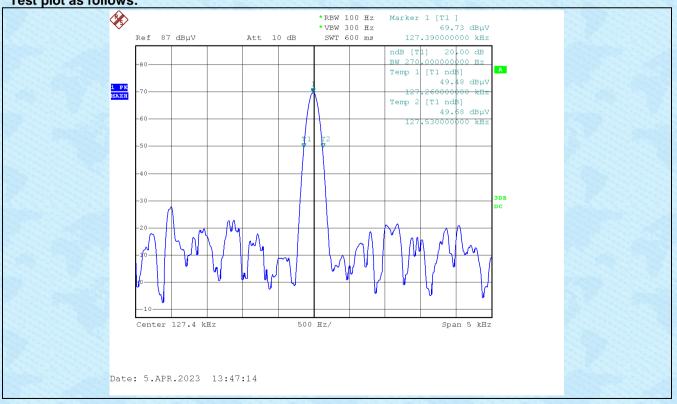
7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.215					
Test Method:	ANSI C63.10:2013					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table					
	Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Measurement Data

Test frequency(KHz)	20dB bandwidth(Hz)	Result		
127.39	270	Pass		

Test plot as follows:





8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----