TEST REPORT

FCC Part 15 Subpart C

New Application; Change ID Application; Class II PC

Product :	7 inch Android Panel PC PoE LED
Brand:	ProDVX
Model:	APPC-7XPL, APPC-7XPLN
Model Difference:	For different markets
FCC ID:	2AR42APPC7XPL
FCC Rule Part:	§15.225, Cat: DXX
Applicant:	ProDVX Europe B.V.
Address:	Europalaan 12F, 5232 BC Den Bosch, The Netherlands

Test Performed by: International Standards Laboratory Corp. <LT Lab.>

<LT Lab.> *Site Registration No. BSMI: SL2-IN-E-0013; MRA TW0997; TAF: 0997; IC: IC4067B-4; *Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan TEL: +886-3-263-8888 FAX: +886-3-263-8899 Report No.: **ISL-20LR400FC** Issue Date : **2021/01/15**



Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

The uncertainty of the measurement does not include in consideration of the test result unless the customer required the determination of uncertainty via the agreement, regulation or standard document specification.

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VERIFICATION OF COMPLIANCE

Applicant:	ProDVX Europe B.V.
Product Description:	7 inch Android Panel PC PoE LED
Brand Name:	ProDVX
Model No.:	APPC-7XPL, APPC-7XPLN
Model Difference:	For different markets.
FCC ID:	2AR42APPC7XPL
Date of test:	2020/12/04 ~ 2021/01/14
Date of EUT Received:	2020/12/04

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Test By:	Barry Lec	Date:	2021/01/15
Prepared By:	Barry Lee / Senior Engineer Gigi Jeh	Date:	2021/01/15
	Gigi Yeh / Senior Engineer		
Approved By:	Jerry Lin	Date:	2021/01/15

Jerry Liu / Associate Director



Version

Version No.	Date	Description	
00 2021/01/15 Initial c		Initial creation of document	

Uncertainty of Measurement

Description Of Test	Uncertainty	
Conducted Emission (AC power line)	2.586 dB	
Field Strength of Spurious Radiation	<=30MHz: 2.96dB 30-1GHz: 4.22 dB 1-40 GHz: 4.08 dB	
Conducted Power	2.412 GHz: 1.30 dB 5.805 GHz: 1.55 dB	
Power Density	2.412 GHz:1.30 dB 5.805 GHz: 1.67 dB	
Frequency	0.0032%	



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1 General Information

1.1 Product Description

General:

Product Name	7 inch Android Panel PC PoE LED		
Brand Name	ProDVX		
Model Name	APPC-7XPL, APPC-72	XPLN	
Model Difference	For different markets		
USB port	One provided		
Micro USB	One provided		
SD	One provided		
RJ45	One provided		
Audio ouy	One provided		
	12Vdc from AC/DC adapter		
Power Supply	Adapter:	 Model : SOY-1200200-068 Model: 2AAJ024FC Model: 2ABL024F US 	

NFC:

Operating Frequency	13.56MHz		
Transmit Power	53.98 dBuV/m Peak at 3m		
Number of Channels	1		
Antenna Type	Coil Antenna		
Modulation Type	ASK		

The Test report is applied for NFC.

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:** <u>2AR42APPC7XPL</u> filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI 63.4: 2014. Radiated testing was performed at an antenna to EUT distance 3 meters. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of **International Standards Laboratory Corp.** <LT Lab.> No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI 63.4: 2014. FCC Registration Number is: TW0997, Canada Registration Number: 4067B-4.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.



2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was tested with a test program to fix the Tx frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2014.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m/1.5m(Frequency above 1GHz) above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6 and 11 of ANSI C63.10: 2013.



2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

]	Limits		
Frequency range	d	B (uV)		
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		
Note				
1. The lower limit shall apply at the transition frequencies				
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.				

(2) Radiated Emission

- 1. The field strength of any emission within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. (124dBuV/m at 3m)
- Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (90.47dBuV/m at 3m.)
- Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. (80.5dBuV/m at 3m.)
- 4. The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength µV/m	Distance (m)	Field strength at 3m dBµV/m
1.705-30	30	2 30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54



Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.

5.

Limitation Calculation:

15,848 microvolts/meter at 30 meters =20 log (15,848) dBuV/m at 30m = 84 dBuV/m at 30m = 124 dBuV/m at 3m

30m to 3m distance correction factor: $40 \log (30/3) = 40 \text{ dB}$

(3) Frequency Tolerance

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to ± 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.



2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

It	tem	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
	1	Adaptor (EUT)	Shenzhen SOY Techology Co.,LTD	SOY-1200200- 068	NA	NA	3M



3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.225 (e)	Frequency Stability	Compliant

4 Description of test modes

The EUT was tested when placed vertically on the table and the EUT stay in continuous transmitting mode.



5 Conducted Emissions Test

5.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- **2.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurem	ent Equipment	Used:
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Location	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 03	EMI Receiver 15	ROHDE & SCHWARZ	ESCI	101166	07/29/2020	07/29/2021
Conduction 03	ISN T4 09	Teseq GmbH	ISN T400A	49914	08/10/2020	08/10/2021
Conduction 03	ISNT8 09	Teseq GmbH	ISN T800	36190	09/20/2020	09/20/2021
Conduction 03	LISN 15	R&S	ENV216	101335	12/12/2020	12/12/2021
Conduction 03	LISN 22	R&S	ENV216	101478	08/10/2020	08/10/2021
Conduction 03	Conduction 04-3 Cable	WOKEN	CFD 300-NL	conduction 04-3	08/29/2020	08/29/2021
Conduction 03	Capacitive Voltage Probe	FCC	F-CVP-1	68	01/17/2020	01/17/2021
Conduction 03	Current Probe	SCHAFFNER	SMZ 11	18030	01/17/2020	01/17/2021



5.4 Measurement Result:

	Operation Mode: N	Vormal Operation	Worst Case	Adapter module : SOY-1200200-068
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No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.150	44.59	26.99	9.71	54.30	66.00	-11.70	36.70	56.00	-19.30
2	0.162	44.32	30.70	9.70	54.02	65.36	-11.34	40.40	55.36	-14.96
3	0.170	40.53	26.59	9.70	50.23	64.96	-14.73	36.29	54.96	-18.67
4	0.196	36.96	22.54	9.70	46.66	63.80	-17.14	32.24	53.80	-21.56
5	0.342	32.44	21.53	9.70	42.14	59.15	-17.01	31.23	49.15	-17.92
6	19.710	31.44	29.06	9.98	41.42	60.00	-18.58	39.04	50.00	-10.96



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No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.162	43.36	28.85	9.71	53.07	65.36	-12.29	38.56	55.36	-16.80
2	0.182	39.66	24.27	9.70	49.36	64.39	-15.03	33.97	54.39	-20.42
3	0.218	34.58	20.84	9.71	44.29	62.89	-18.60	30.55	52.89	-22.34
4	0.262	30.49	18.30	9.71	40.20	61.37	-21.17	28.01	51.37	-23.36
5	0.358	31.58	24.31	9.70	41.28	58.77	-17.49	34.01	48.77	-14.76
6	17.694	31.29	28.49	10.02	41.31	60.00	-18.69	38.51	50.00	-11.49

International Standards Laboratory Corp.



6 Radiated Emission Test

6.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz





Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Chamber 19	Signal analyzer	R&S	FSV40	101919	8/13/2020	8/13/2021
Chamber 19	EMI Receiver	R&S	ESR3	102461	05/05/2020	05/05/2021
Chamber 19	Loop Antenna	EM	EM-6879	271	05/21/2020	05/21/2021
Chamber 19	Bilog Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168 w 6dB Att.	736	02/11/2020	02/11/2021
Chamber 19	Horn antenna (1GHz-18GHz)	ETS LINDGREN	3117	00218718	09/25/2020	09/25/2021
Chamber 19	Horn antenna (18GHz-26GHz)	Com-power	AH-826	081001	11/23/2020	11/23/2021
Chamber 19	Horn antenna (26GHz-40GHz)	Com-power	AH-640	100A	03/13/2020	03/13/2021
Chamber 19	Preamplifier (9kHz-1GHz)	HP	8447F	3113A04621	06/19/2020	06/19/2021
Chamber 19	Preamplifier (1GHz - 26GHz)	EM	EM01M26G	060681	05/04/2020	05/04/2021
Chamber 19	Preamplifier (26GHz-40GHz)	MITEQ	JS4-26004000- 27-5A	818471	05/04/2020	05/04/2021
Chamber 19	RF Cable (9kHz-18GHz)	Huber Suhner & Woken	Sucoflex 104A & 18GHz SMA(M)-SM A(M)-10M	MY817/4A & 20200525	12/25/2020	12/25/2021
Chamber 19	RF Cable (18GHz-40GHz)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/19/2020	11/19/2021
Chamber 19	Signal Generator	Anritsu	MG3692A	20311	01/03/2021	01/03/2022
Chamber 19	Test Software	Audix	E3 Ver:6.12023	N/A	N/A	N/A

6.3 Measurement Equipment Used:

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	



6.5 Measurement Result

Fundamental Measurement Result

Operation Mode	: TX mode	Test Date	: 2021/01/07
Fundamental Frequency	: 13.56 MHz	Test By	: Barry
Temp	: 25 °C	Hum.	: 60%

Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
13.56	42.98	11.00	53.98	124.00	-70.02	Peak	VERTICAL
13.56	35.98	11.00	46.98	124.00	-77.02	Peak	HORIZONTAL



Radiated Mask

Fundamental Measurement Result

Operation Mode	: MASK	Test Date	: 2021/01/07
Fundamental Frequency	: 13.56 MHz	Test By	: Barry
Temp	: 25 °C	Hum.	: 60%



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	13.56	42.79	11.00	53.79	124.00	-70.21	Peak	VERTICAL









Radiated Spurious Emi	ssion Measurement Res	ult (below IGHz)	
Operation Mode:	Transmitting Mode	Test Date:	2
Eurodomontal Eraguanary	12 56MIL	Test Dru	Т

Radiated Spuriou	s Emission	Measurement	Result	(below	1GHz)
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Operation Mode:	Transmitting Mode	Test Date:	2021/01/07
Fundamental Frequency:	13.56MHz	Test By:	Barry
Temperature :	25 °C	Humidity :	65 %

No	Freq	Reading	Factor	Level	Limit	Margin	Remark	Pol
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		V/H
1	0.79	42.19	16.11	58.30	70.52	-12.22	Peak	VERTICAL
2	2.47	28.47	11.26	39.73	69.54	-29.81	Peak	VERTICAL
3	8.14	26.99	11.14	38.13	69.54	-31.41	Peak	VERTICAL
4	11.20	26.39	11.27	37.66	69.54	-31.88	Peak	VERTICAL
5	19.53	26.85	10.50	37.35	69.54	-32.19	Peak	VERTICAL
6	27.15	27.49	12.76	40.25	69.54	-29.29	Peak	VERTICAL
7	143.49	36.91	-5.20	31.71	43.50	-11.79	Peak	VERTICAL
8	256.98	37.77	-5.45	32.32	46.00	-13.68	Peak	VERTICAL
9	429.64	35.33	-1.44	33.89	46.00	-12.11	Peak	VERTICAL
10	600.36	34.20	1.58	35.78	46.00	-10.22	Peak	VERTICAL
11	789.51	29.31	4.61	33.92	46.00	-12.08	Peak	VERTICAL
12	900.09	33.60	6.17	39.77	46.00	-6.23	Peak	VERTICAL

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz, VBW=300kHz.
- 6 Peak is below the average limit, so that the average result is not measured



Operation Mode: Transmitting Mode					Tes	st Date:	2021/01/07	
Fundamental Frequency: 13.56MHz					Tes	st By:	Barry	
Temp	Semperature : 25 °C					Hu	midity :	65 %
1	0.73	45.49	16.57	62.06	71.02	-8.96	Peak	HORIZONTAL
2	4.66	26.16	10.45	36.61	69.54	-32.93	Peak	HORIZONTAL
3	9.82	27.64	11.40	39.04	69.54	-30.50	Peak	HORIZONTAL
4	17.25	31.56	10.68	42.24	69.54	-27.30	Peak	HORIZONTAL
5	22.44	28.71	11.33	40.04	69.54	-29.50	Peak	HORIZONTAL
6	27.12	28.73	12.75	41.48	69.54	-28.06	Peak	HORIZONTAL
7	149.31	39.56	-5.03	34.53	43.50	-8.97	Peak	HORIZONTAL
8	203.63	42.84	-7.40	35.44	43.50	-8.06	Peak	HORIZONTAL
9	256.98	39.22	-5.45	33.77	46.00	-12.23	Peak	HORIZONTAL
10	515.00	35.27	-0.31	34.96	46.00	-11.04	Peak	HORIZONTAL
11	600.36	41.80	1.58	43.38	46.00	-2.62	Peak	HORIZONTAL
12	900.09	38.58	6.17	44.75	46.00	-1.25	Peak	HORIZONTAL

Radiated Spurious Emission Measurement Result (below 1GHz)

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz, VBW=300kHz.
- 6 Peak is below the average limit, so that the average result is not measured



7 Frequency Tolerance

7.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.
- 5.

7.2 Test SET-UP (Block Diagram of Configuration)



Temperature Chamber

Variable AC Power Supply



Location				a a -	Last Cal.	Next Cal.
Conducted	Equipment Name	Brand	Model	S/N	Date	Date
Conducted	Power Meter	Anritsu	ML2495A	1116010	09/25/2020	09/25/2021
Conducted	Power Sensor	Anritsu	MA2411B	34NKF50	09/25/2020	09/25/2021
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO33	01/03/2020	01/03/2021
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO34	01/09/2020	01/09/2021
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO35	06/29/2020	06/29/2021
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO36	06/29/2020	06/29/2021
Conducted	Temperature Chamber	KSON	THS-B4H100	2287	03/11/2020	03/11/2021
Conducted	DC Power supply	ABM	8185D	N/A	01/03/2020	01/03/2021
Conducted	AC Power supply	EXTECH	CFC105W	NA	N/A	N/A
Conducted	Spectrum analyzer	Keysight	N9010A	MY56070257	09/23/2020	09/23/2021
Conducted	Spectrum analyzer	R&S	FSP40	100116	01/10/2020	01/10/2021
Conducted	Test Software	DARE	Radiation Ver:2013.1.23	NA	NA	NA
Conducted	Test Software	R&S	CMUGO Ver:2.0.0	N/A	N/A	N/A
Conducted	Radio Communication Analyzer	R&S	CMU200	111968	11/29/2020	11/29/2021
Conducted	Wideband Radio Communication Tester	R&S	CMW500	1201.002K501087 93-JG	10/28/2020	10/28/2021
Conducted	BT Simulator	Agilent	N4010A	MY48100200	NA	NA
Conducted	GPS Simulator	Welnavigate	GS-50	701523	NA	NA

7.3 Measurement Equipment Used:

7.4 Measurement Results

Refer to attached data chart.



Limit: +/- 0.01%								
Power Supply	Environment	Frequency	Dolto (KHz)	Limit (KHz)	Dogult			
Vdc	Temperature (°C)	(MHz)	Della (KIIZ)	Linit (KHZ)	Kesun			
	-20	13.56044	-0.010	1.356	Pass			
	-10	13.56048	0.030		Pass			
	0	13.56047	0.020		Pass			
	10	13.56049	0.040		Pass			
12	20	13.56045	0.000		Pass			
	30	13.56043	-0.020		Pass			
	40	13.56046	0.010		Pass			
	50	13.56049	0.060	-	Pass			
	60	13.56048	0.030		Pass			

A. Temperature Variation

B. Supply Voltage Variation

Limit: +/- 0.01%								
Power Supply	Environment	Frequency	Dolto (KUz)		Densel4			
Vdc	Temperature (°C)	(MHz)	Deita (KHZ)	Limit (KHz)	Kesuit			
12	20	13.56045	0.000		Pass			
13.2	20	13.56047	0.020	1.356	Pass			
10.8	20	13.56048	0.030		Pass			