

Testing Tomorrow's Technology

Application for

**US Code Title 47, Part 2, Subpart J, Section 2.947, Certification
Per
Part 15, Subpart C, for Intentional Radiators, Section 15.249, Intentional Radiator
Operating within the Band 2400 MHz to 2483.5 MHz.**

And

**US Code Title 47, Part 2, Subpart J, Section 2.902, Verification
Per
Part 15, Subpart B, for Unintentional Radiators, section 15.101, 15.107 and 15.109**

For the

Pineapple Parade LLC.

Model: TP0603V1 (The Proxy)

Manufactured by

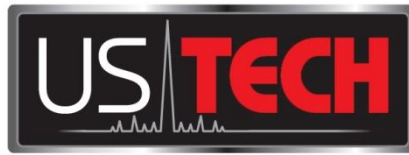
Pineapple Parade LLC

UST Project: 14-0091

**Test Date(s): 2014-05-01, 2014-05-05, 2014-05-09
2014-05-22, 2014-05-28, 2014-05-29, 2014-06-06**

Issue Date: 2014-06-06

**3505 Francis Circle Alpharetta, GA 30004
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www.ustech-lab.com**



Testing Tomorrow's Technology

I certify that I am authorized to sign for the test facility and that all of the statements in this report and in the Exhibits attached hereto are true and correct to the best of my knowledge and belief:

US TECH (Agent Responsible For Test):

By: 

Name: Alan Ghasiani

Title: Consulting Engineer - President

Date: June 6, 2014



NVLAP LAB CODE 200162-0

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MEASUREMENT/TECHNICAL REPORT

COMPANY NAME: Pineapple Parade LLC

MODEL(S): PINEAPPLE PARADE LLC TP0603V1
FCC ID: 2ACAP-TP0603V1
IC ID: 12080A-KINCAID1973

DATE: June 6, 2014

This report concerns (check one): Original grant X
Class II change _____

Equipment type: Intentional Radiator Operating within the bands 2400-2483.5 MHz

Deferred grant requested per 47 CFR 0.457(d) (1) (ii)? yes _____ No X

If yes, defer until: _____
date

N.A. agrees to notify the Commission by N.A.
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

US Tech
3505 Francis Circle
Alpharetta, GA 30004

Phone Number: (770) 740-0717
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SUMMARY OF TEST REQUIREMENTS

<u>FCC Requirement</u>	<u>Title</u>	<u>Disposition</u>
15.205	Restricted Bands	Pass
15.207	Intentional Radiator Power Line Conducted Emissions	Pass
15.209	Intentional Radiator Radiated Emissions	Pass
15.249(a)	Fundamental Field Strength	Pass
15.107	Unintentional Radiator Power Line Conducted Emissions	Pass
15.109	Unintentional Radiator Radiated Emissions	Pass

N/A = Not applicable for this unit.

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1 General Information

1.1 Purpose of this Report

This report is prepared as a means of presenting test data to be used by a Telecom Certification Body in determination of whether this product is permitted for unlicensed dissemination to the general public according to the FCC Rules and Regulations for RF Devices Intentional Radiators.

1.2 Product Description

The Equipment under Test (EUT) is the Pineapple Parade LLC model TP0603V1 wrist worn BT speaker (mobile sound system). The EUT is an ISM band transceiver operating in the 2400-2483.5 MHz frequency band. Per 47 CFR Part 15.31(m) the EUT was evaluated at the low, middle and high channels for operation in this band. Test data for these channels is provided herein.

The EUT is a wrist worn BT speaker or mobile sound system. It is designed to sync with a smart phone or tablet PC using Bluetooth protocols. The EUT can be used to play music or make voice calls once it is synced to the other media device. The EUT is powered by a rechargeable 3.7V battery and has the following Bluetooth radio features:

Modulation: FHSS/GFSK and DPSK (EUT tested in GFSK mode)
Data Packet: DH1, DH3, and DH5
Bluetooth rated maximum output power: +4 dBm
Frequency band of operation: 2400 MHz to 2483.5 MHz

1.3 Related Submittal(s)/Grant(s)

1.3.1 The EUT is subject to the following FCC authorizations:

- a) Certification under section 15.249 as a transmitter.
- b) Verification under 15.101 as a digital device and receiver.

1.3.2 Certification of the Transmitter

The EUT employs spread spectrum modulation, but is not being certified under CFR 15.247 because the field strength of the fundamental and its harmonics are within the limits specified in 47 CFR 15.249. Therefore the EUT is instead being presented under the requirements of CFR 15.249. The EUT will operate within the frequency band of 2400 MHz to 2483.5 MHz.

1.3.3 Verification of the Digital apparatus

The Verification requirement shares many common report elements with the Certification report. Therefore, though this report is mostly intended to provide data for the Certification process, the Verification authorization report (part 15.107 and 109) for the EUT is included herein.

2 Tests and Measurements

2.1 Configuration of Tested System

The sample was set up and tested per ANSI C63.4, Methods of Measurement from Low-Voltage Electrical and Electronic Equipment in the Frequency Range of 9 kHz to 40 GHz (2003). Conducted and radiated emissions data were taken with the EMC test receiver (or spectrum analyzer's) resolution bandwidth adjusted to 9 kHz and 120 kHz, respectively. All measurements are peak unless stated otherwise. The video filter associated with the spectrum analyzer was off throughout the evaluation process. A Block diagram of the tested system is shown in Figure 1. A listing of the EUT and its test peripherals is found in Table 1 below. Test configuration photographs for spurious and fundamental emissions measurements are in the attached appendices.



Figure 1. Test Configuration

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Table 1 - EUT and Peripherals

PERIPHERAL MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC/IC ID:	CABLES P/D
Beacon device (EUT) Pineapple Parade LLC	TP0603V1	Engineering Sample	Pending: FCC ID: 2ACAP-TP0603V1 IC: 12080A-KINCAID1973	N/A
Batteries	13F251	Engineering Sample	None	N/A

S= Shielded, U=Unshielded, P= Power line, D= Data line

2.2 EUT Characterization

The sample used for testing was received by US Tech on April 28, 2014 in good operating condition.

2.3 Test Facility

Testing was performed at US Tech's measurement facility at 3505 Francis Circle, Alpharetta, GA. This site has been fully described and registered with the FCC under site designation number 186022. Additionally this site has also been fully described and submitted to Industry Canada (IC), and has been approved under file number 2982A-1.

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2.4 Test Equipment

Table 2 describes test equipment used to evaluate this product.

Table 2 - Test Instruments used for Evaluation

TEST INSTRUMENT	MODEL NUMBER	MANUFACTURER	SERIAL NUMBER	DATE OF LAST CALIBRATION
SPECTRUM ANALYZER	E4407B	AGILENT	US41442935	11/8/2013
SPECTRUM ANALYZER	8566B	HEWLETT-PACKARD	2410A00109	2/03/2014
RF PREAMP 100 kHz to 1.3 GHz	8447D	HEWLETT-PACKARD	2944A06291	2/06/2014
BICONICAL ANTENNA	3110B	EMCO	9306-1708	7/02/2012 2 yr cycle
LOG PERIODIC ANTENNA	3146	EMCO	3110-3236	6/05/2012 2 yr cycle
HORN ANTENNA	SAS-571	A. H. Systems	605	7/23/2013 2 yr cycle
HORN ANTENNA	EMCO	3116	9505-2255	8/09/12 2 yr cycle
LOOP ANTENNA	SAS-200/562	A. H. Systems	142	9/12/2013
PREAMP 1.0 GHz to 26.0 GHz	8449B	HEWLETT-PACKARD	3008A00480	2/06/2014
CALCULATION PROGRAM	N/A	N/A	Ver. 6.0	N/A

Note: The calibration interval of the above test instruments is 12 months unless stated otherwise, and all calibrations are traceable to NIST/USA.

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2.5 Modifications to EUT

No modifications were made by US Tech to bring the EUT into compliance with FCC Part 15, Subpart B, Class B Limits for the receiver and digital portion of the EUT or the Subpart C, Transmitter requirements.

2.6 Measurement Standards (CFR 15.31)

Intentional and unintentional radiators are to use the methods of ANSI C63.4-2003. Measurements were made on an Open Area Test Site (OATS) wherever possible. For battery powered equipment, new (or fully charged) batteries are used. Section 15.31(m) indicates that if the EUT System operates over the 2400 MHz to 2483.5 MHz ISM band, measurements must be made near the bottom of the band (around 2400 MHz for example) and in the middle of the band (2440 MHz) as well as near the top of the band (2483.5 MHz).

2.7 Frequency Range of Radiated Measurements (CFR 15.33)

The frequency range is detailed below for intentional and unintentional radiators.

2.7.1 Frequency Range for Intentional Radiators

The spectrum was investigated from the lowest RF signal generated without going below 9 kHz to the 10th harmonic of the highest fundamental transmitter frequency.

2.7.2 Frequency Range for Unintentional Radiators

The spectrum was investigated from the lowest RF signal generated without going below the lowest frequency for which an emissions limit is specified (30 MHz) to the 5th harmonic of the highest fundamental frequency of the digital device (12.5 GHz maximum).

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2.7.3 Measurement Detector Function and Bandwidth (CFR 15.35)

On any frequency below 1000 MHz, the limits shown are based upon measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths. On frequencies above 1000 MHz, the radiation limits are based upon the use of measuring instrumentation employing an average detector function.

When average detector measurements are specified for use, including emission measurements below 1000 MHz, there is also a corresponding limit for Peak detector measurements having a limit of 20 dB above the corresponding average limit unless a different peak emission limit is specified. Measurements above 1000 MHz utilize a minimum resolution bandwidth of 1 MHz.

When radiated emissions limits are expressed in terms of the average value of the emission and pulsed operation is employed, the measurement field strength is determined by averaging over one complete pulse train (Duty Cycle) including blanking intervals for pulse trains up to 0.1 second in duration. The exact method of calculating the average field strength is included in paragraph 2.11 of this report. Refer to Figures 2 and 3 for duty cycle measurement data.

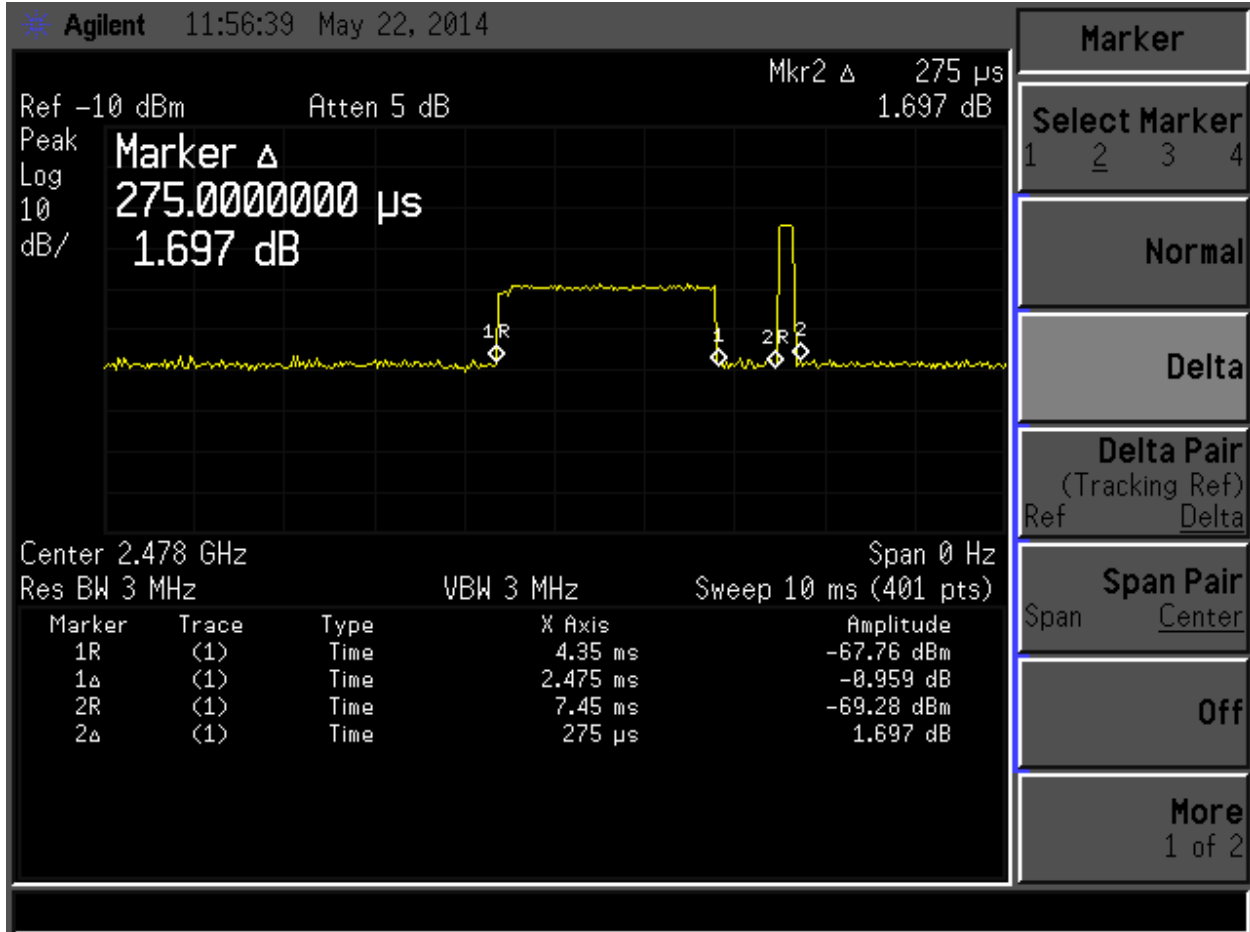


Figure 2. Transmitter Pulse Width (20ms)

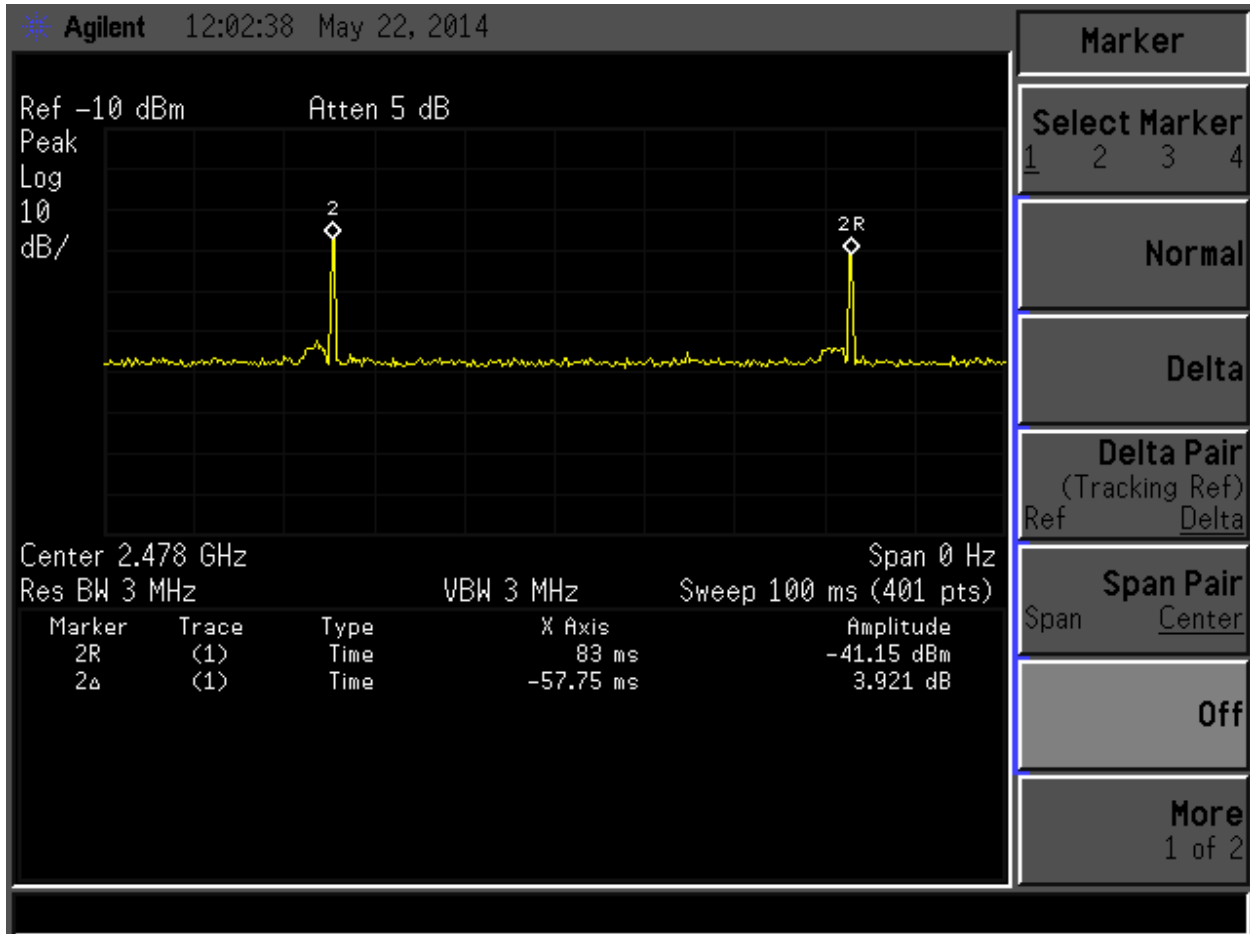


Figure 3. Transmitter Pulse Width (100ms)

$$(5.50\text{mS})/100\text{mS} = 0.055 = 5.5\% \text{ percent}$$

$$\text{Duty Cycle} = 20 \text{ Log } (0.055) = \boxed{-25.2 \text{ dB}}$$

The Duty Cycle applied in this test report is -20 dB.

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2.8 Antenna Requirement (CFR 15.203)

The EUT has an internal radiator; there are no external antenna ports.

Table 3 - Allowed Antenna(s)

MANUFACTURER	TYPE OF ANTENNA	MODEL	REPORT REFERENCE	GAIN dB _i	TYPE OF CONNECTOR
Pineapple Parade LLC	Meander Trace Monopole	Engineering Sample	Antenna	0.0	PCB Trace Antenna

2.9 Intentional Radiator, Power Line Conducted Emissions (CFR 15.207)

The EUT requires 3.7 VDC to operate. The EUT is powered by a rechargeable battery, but indirectly connects to the AC mains to charge the battery therefore power line conducted emissions were investigated.

2.10 Intentional Radiator, Radiated Emissions (CFR 15.249 (a), (e))

The EUT was placed into a continuous transmit mode of operation. A preliminary scan was performed on the EUT to find signal frequencies that were caused by the transmitter part of the product and to obtain the worse case result the EUT tested in all X, Y and Z axis. Radiated measurements below 30 MHz were tested with a RBW = 9 kHz; emissions below 1 GHz were tested with a RBW = 120 kHz and radiated measurements above 1 GHz were measured using a RBW =1 MHz and VBW = 3 MHz.

Test data is found in Tables 4 and 5 below.

2.11 Restricted Bands of Operation (CFR 15.205)

Only radiated harmonics and other spurious signals can be permitted to fall into the restricted bands of 15.205. All signals found in paragraph 2.7 above shall be examined for this requirement. Limits are based upon the limits of paragraph 15.209. Above 1 GHz, the limits are for Average value. See Tables 4 and 5 below for peak and Average measurements. According to CFR 15.35, the peak limits can exceed the average limits by 20 dB.

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Table 4 - Peak Fundamental and Harmonics, (CFR15.249 (a))

Radiated Fundamental and Harmonics Emissions								
Tested By: RN		Test: Fundamental and Harmonics CFR 15.249 (a)				Client: Pineapple Parade LLC		
		Project: 14-0091		Class: N/A		Model: TP0603V1		
Frequency (MHz)	Test Data (dBuV)	DF+FL*	AF+CL-PA (dB/m)	Corrected Results (dBuV/m)	Peak Limits (dBuV/m)	Distance / Polarity (Meters)	Margin (dB)	Det PK
2402.05	57.82		31.88	89.70	114.0	3.0m./Horz	24.3	PK
2441.03	58.90		31.98	90.88	114.0	3.0m./Horz	23.1	PK
4882.07	64.25	1.50	3.08	68.83	74.0	3.0m./Horz	5.2	PK
7323.00	40.10	1.50	11.16	52.76	74.0	3.0m./Horz	21.2	PK
2480.00	58.46		31.83	90.29	114.0	3.0m./Horz	23.7	PK
4956.18	64.91	1.50	2.39	68.80	74.0	3.0m./Horz	5.2	PK

-Emissions were investigated up to the 10th harmonic of the highest frequency generated.

-All other emissions were at least 20 dB below the applicable limit.

Note: EUT was tested while transmitting at >98% duty cycle. EUT was tested in both H and V polarization. The worst case position is cited above.

SAMPLE CALCULATION: at 4882.07 MHz, = 64.25 dBuV + 1.5 + (3.08) dB/m = 68.83 dBuV/m @ 3m

Test Date: May 22, 2014 and May 28, 2014

Tested by 
 Signature: _____ Name: John Wynn

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Table 5 - Fund and Harmonics Average limits, (CFR 15.35(b), 15.249(a))

Radiated Fundamental and Harmonics Emissions								
Tested By: RN		Test: Fundamental and Harmonics CFR 15.249 (a)				Client: Pineapple Parade LLC		
		Project: 14-0091		Class: N/A		Model: TP0603V1		
Frequency (MHz)	Test Data (dBuV)	DF+FL*	AF+CL-PA (dB/m)	Corrected Results (dBuV/m)	Peak Limits (dBuV/m)	Distance / Polarity (Meters)	Margin (dB)	Det PK
2402.05	57.82		11.88	69.70	94.0	3.0m./Horz	24.3	PK
2441.03	58.90		11.98	70.88	94.0	3.0m./Horz	23.1	PK
4882.07	64.25	1.50	-16.92	48.83	54.0	3.0m./Horz	5.2	PK
7323.00	40.10	1.50	-8.84	32.76	54.0	3.0m./Horz	21.2	PK
2480.00	58.46		11.83	70.29	94.0	3.0m./Horz	23.7	
4956.18	64.91	1.50	-17.61	48.80	54.0	3.0m./Horz	5.2	PK

-Emissions were investigated up to the 10th harmonic of the highest frequency generated.

-All other emissions were at least 20 dB below the applicable limit.

*duty cycle factor = -20 dB and was applied above.

Note: EUT was tested while transmitting at >98% duty cycle. EUT was tested in both H and V polarization. The worst case position is cited above.

SAMPLE CALCULATION: at 4882.07 MHz, = 64.25 dBuV + 1.5 + (-16.92) dB/m = 48.83 dBuV/m @ 3m

Test Date: May 22, 2014 and May 28, 2014

Tested by

Signature: 

Name: John Wynn

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2.13 20 dB Bandwidth Measurement per CFR 15.247, 99% Occupied Bandwidth (IC RSS 210, A8.1)

The EUT antenna port was connected to a spectrum analyzer having a 50 Ω input impedance. Measurements were performed similar to the method of FCC, KDB Publication No. 558074 for a bandwidth of 20 dB. The RBW was set to approximately 1/100 of the manufacturers claimed RBW and with the VBW \geq RBW. The results of this test are given in Table 6 and Figures 4-6.

Table 6 - 20 dB Bandwidth and 99% Occupied Bandwidth

Frequency (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
2402.00	0.3741	0.3741
2440.00	0.3791	0.3791
2480.00	0.3591	0.3591

Test Date: June 6, 2014

Tested By
Signature: 

Name: George Yang

Agilent 16:02:04 Jun 6, 2014

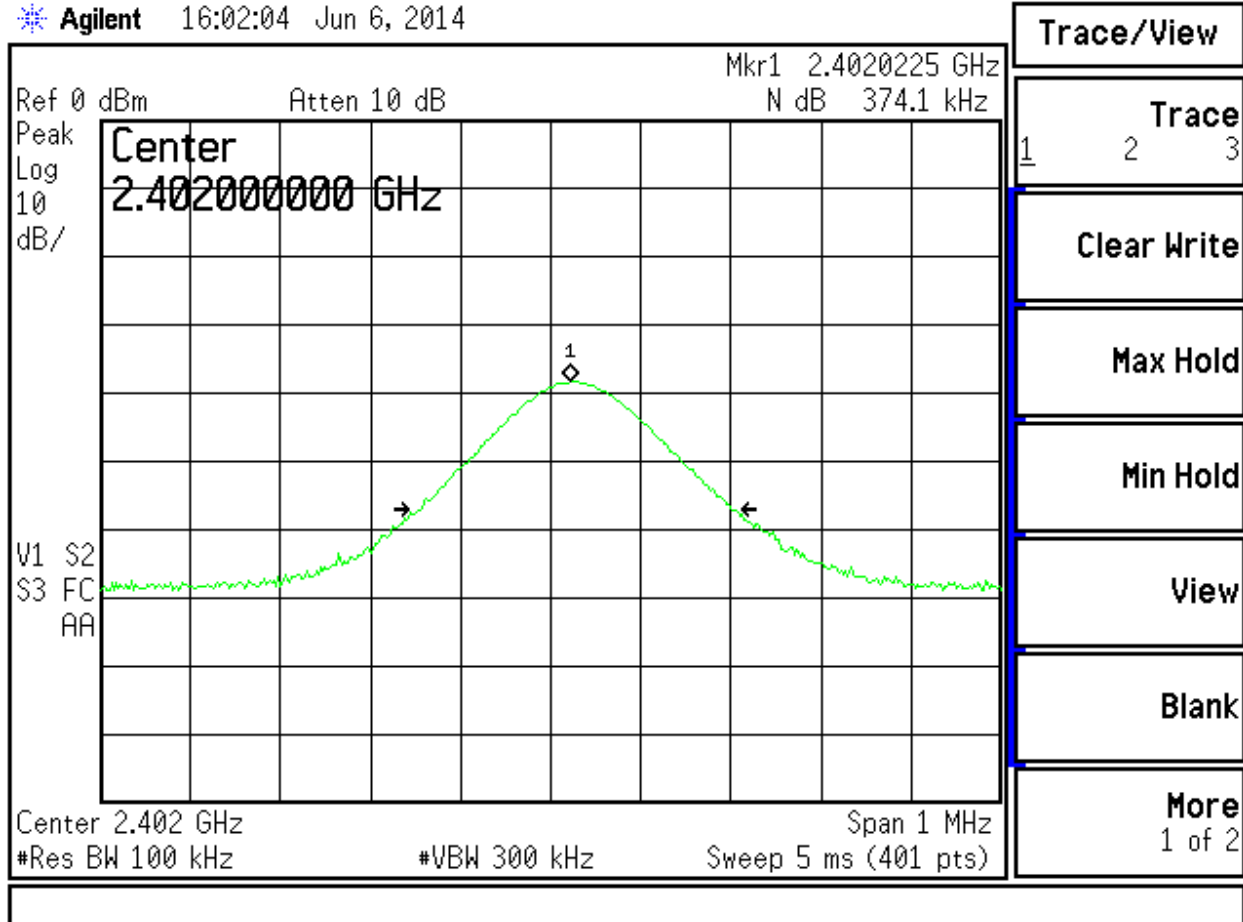


Figure 4. Low Ch Bandwidth

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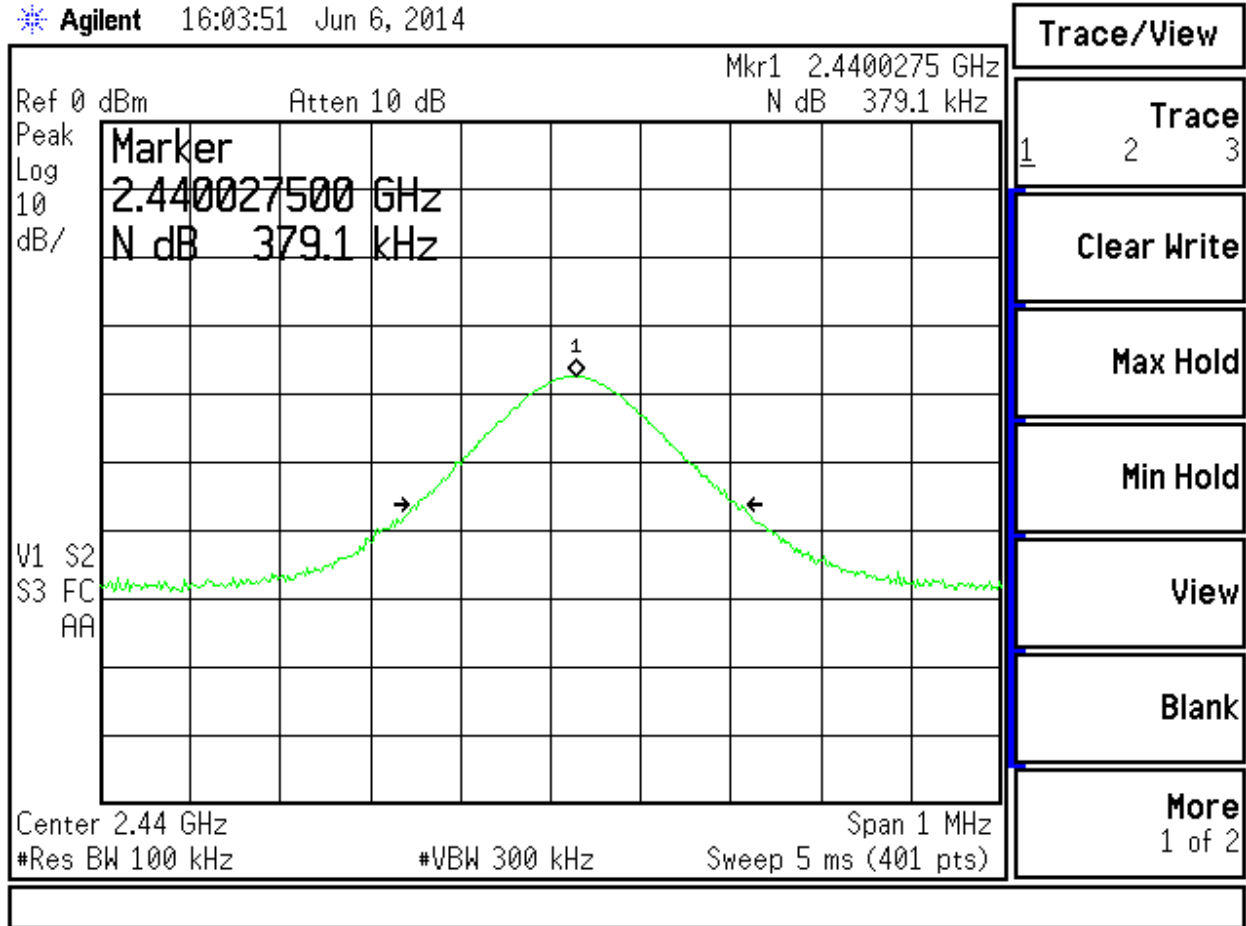


Figure 5. Mid Ch Bandwidth

Agilent 16:00:50 Jun 6, 2014

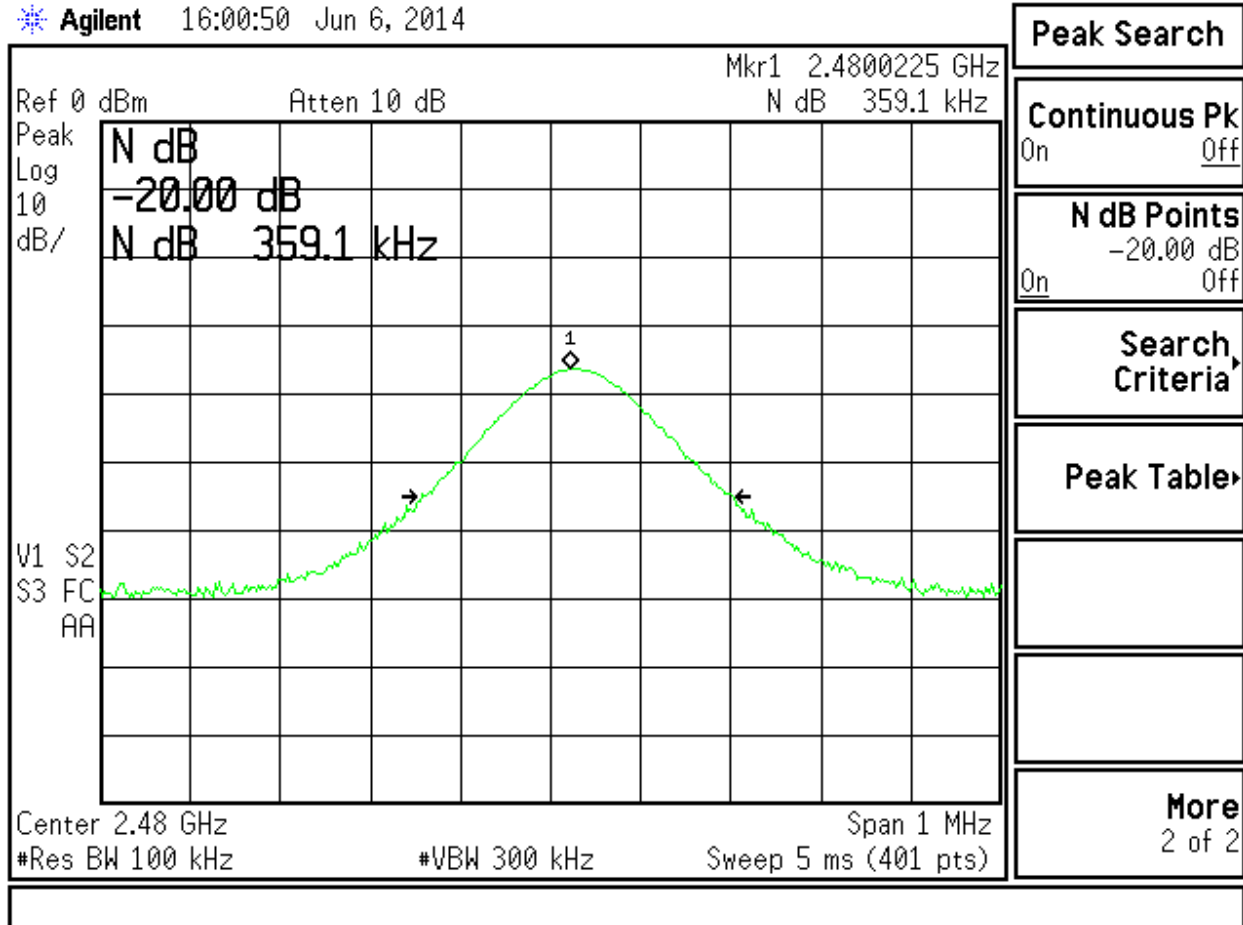


Figure 6. High Ch Bandwidth

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2.12 Band Edge Measurements (CFR15.249(d))

Band Edge measurements were made at a Low Channel and High Channel peak at highest EUT related emission outside the upper and lower occupied bandwidth. A measurement was made of the fundamental and the emission was measured using a quasi peak setting. A Resolution Bandwidth of $> 1\%$ of the emission bandwidth was used. This procedure was repeated for the high channel. The limits were derived as described in the following sections.

2.12.1 High Band Edge

Above 2483.5 MHz the limit per section 15.249(d) is 54 dB below the fundamental or the value expressed by CFR 15.209 (54 dBuV/m) whichever is the lesser attenuation.

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The High Channel fundamental recorded in

Table 4 is 90.29 dBuV/m:

$90.29 - 41.13 = 49.16$; Passing Margin = $54.0 - 49.16 = 4.84$ dB

Agilent 16:16:39 Jun 6, 2014

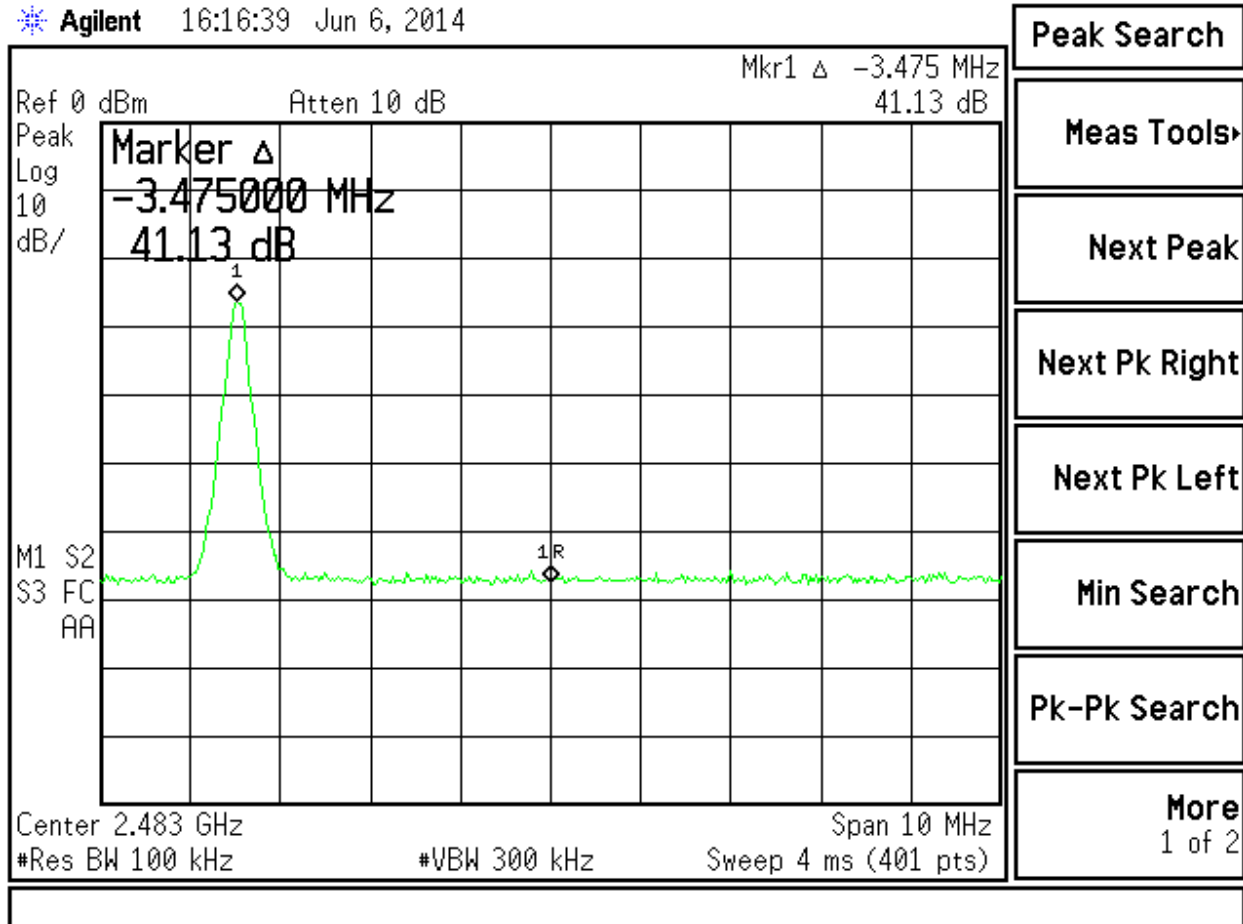
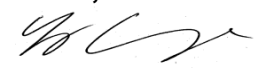


Figure 7. Radiated Band Edge – High Channel Delta

Note: All other emissions within the restricted bands of 2.31 MHz to 2.5 GHz were 20 dB or more below the limit.

Test Date: June 6, 2014

Tested By
Signature: 

Name: George Yang

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2.12.2 Low Band Edge

The low channel fundamental recorded in

Table 4 is 89.70 dBuV/m

$89.70 - 43.59 = 46.11$ dB; Passing Margin = $54.0 - 46.11 = 7.89$ dB

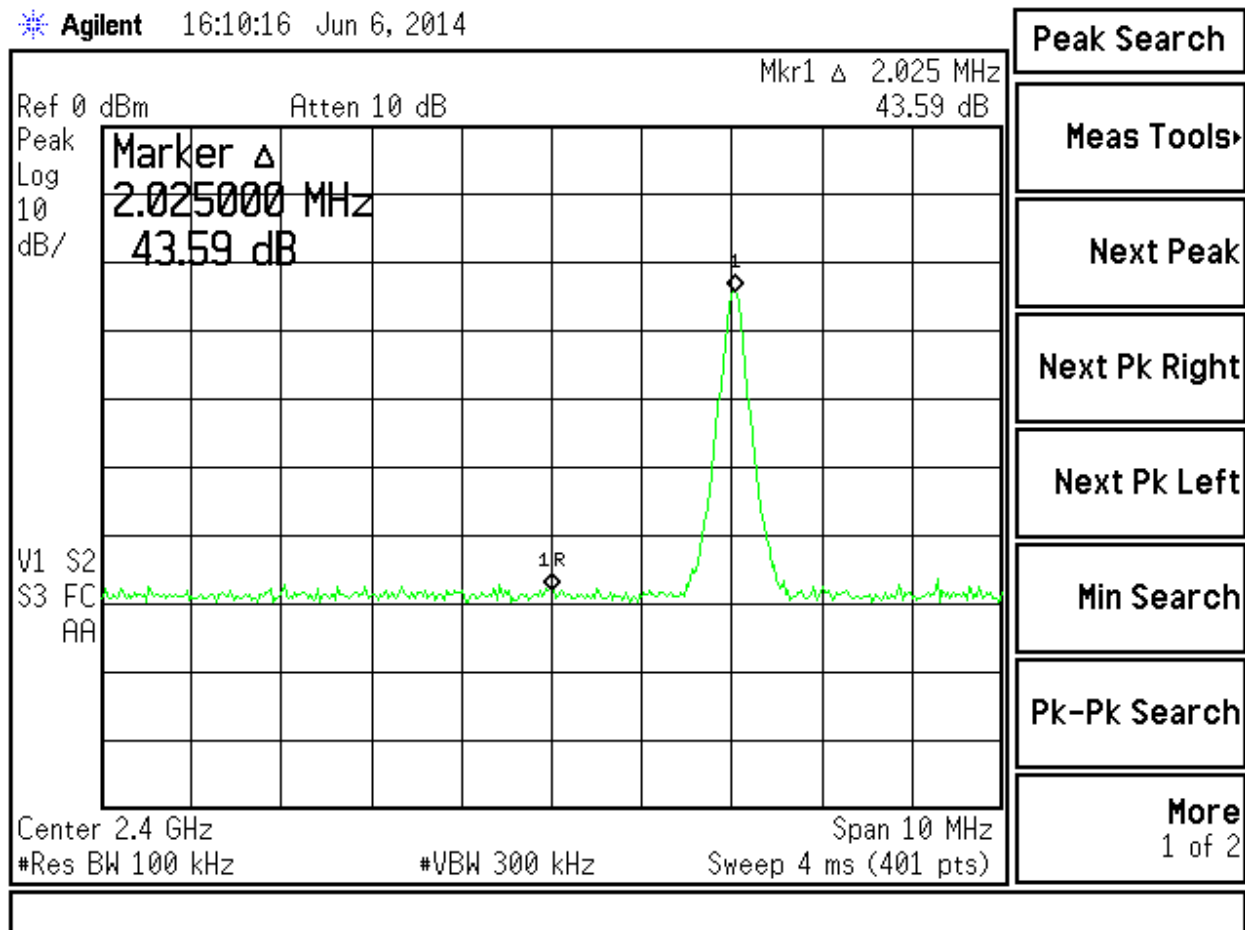



Figure 8. Radiated Band Edge – Low Channel Delta

Note: All other emissions within the restricted bands of 2.31 MHz to 2.5 GHz were 20 dB or more below the limit.

Test Date: June 6, 2014

Tested By
Signature: 

Name: George Yang

US Tech
 Test Report:
 Date:
 Model(s):
 FCC ID:
 IC:
 Customer:

FCC Part 15.249/ RSS 210
 14-0091
 June 6, 2014
 TP0603V1
 2ACAP-TP0603V1
 12080A-KINCAID1973
 Pineapple Parade LLC

2.13 Unintentional/Intentional Radiator, Power Conducted Emissions (CFR 15.107/15.207)

The EUT is battery operated but indirectly connects to the AC mains to charge the battery; therefore power line conducted emissions were investigated. The worst case emission was at 1.7920 MHz on the Neutral line, the emission was 5.6 dB from the limit all other emissions were at least 7.3 dB from the limit.

Table 7 - Power line Conducted Emissions Data, Class B

Power Line Conducted Emissions							
Test By: JW		Test: FCC Power Line Conducted Emissions 150 KHz – 30 MHz , Hot Phase			Client: Pineapple Parade LLC		
		Project: 14-0091	Sect. 15.107/15.207 Class: B		Model: TP0603V1		
Frequency (MHz)	Test Data (dBuV)	IL+CL -PA (dB)	Results (dBuV)	AVG Limits (dBuV)	Phase /Neutral	Margin (dB)	PK / QP
0.3232	41.70	0.64	42.34	49.6	Phase	7.3	PK
0.9999	36.40	0.37	36.77	46.0	Phase	9.2	PK
1.6800	33.50	0.36	33.86	46.0	Phase	12.1	QP
5.8000	27.90	0.41	28.31	50.0	Phase	21.7	PK
11.4000	24.30	0.48	24.78	50.0	Phase	25.2	PK
29.9100	25.80	0.72	26.52	50.0	Phase	23.5	PK
0.3169	37.30	0.68	37.98	49.8	Neutral	11.8	QP
0.6248	37.50	0.43	37.93	46.0	Neutral	8.1	PK
1.7920	40.00	0.36	40.36	46.0	Neutral	5.6	PK
5.4550	25.50	0.41	25.91	50.0	Neutral	24.1	PK
15.8400	23.60	0.55	24.15	50.0	Neutral	25.9	PK
26.7700	24.80	0.70	25.50	50.0	Neutral	24.5	PK

SAMPLE CALCULATIONS: 0.3232 MHz, = 41.70 dBuV + (0.64) dB/m = 42.34 dBuV

Test Date: May 1, 2014

Tested by

Signature: 

Name: John Wynn

US Tech
Test Report:
Date:
Model(s):
FCC ID:
IC:
Customer:

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2.14 Unintentional/Intentional Radiator, Radiated Emissions (CFR 15.109/15.209)

Radiated emissions within the band 9 KHz (or lowest clock frequency of the EUT) to 30 MHz and 30 MHz to 12.5 GHz (additional intentional measurements were conducted up to 10 times the fundamental frequency, see Tables 4 and 5 above), were measured with a spectrum analyzer via a pre-amplifier by connecting the spectrum analyzer to a receiving antenna spaced three (3) meters from the EUT. The EUT was setup in a test mode which put the EUT in a continuously transmitting state, which was deemed to be the worst case state to meet both FCC Part 15.109 and 15.209 requirements. The spectrum analyzer was set for a 50 Ω input impedance with the VBW set to \geq the RBW bandwidth. The antenna was raised and lowered over a span of 4 meters in order to maximize the signal coming from the EUT. Similarly, the turntable was rotated through 360 degrees in the same maximizing effort. Also the EUT was scanned for a maximum radiated power when placed in each of the three mutually exclusive orthogonal planes.

Radiated emissions within the band of 9 kHz to 30 MHz were investigated using a calibrated Loop Antenna and per the requirements of ANSI C63.4:2003. The resolution bandwidth was set to 9 kHz, the video bandwidth was set to three times the resolution bandwidth.

For measurements above 30 MHz the measurements were made with the analyzer's resolution bandwidth set to 120 kHz for measurements made below 1 GHz and 1 MHz for measurements made above 1 GHz. The video bandwidth was set to three times the resolution bandwidth.

All measured signals were at least 6 db below the specification limit. The results of the measurements are reported in the tables below.

US Tech
 Test Report:
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Table 8 - Unintentional Radiator, Peak Radiated Emissions (CFR 15.109)

Peak Radiated Emissions, Digital Device and Receiver							
Tested By: JW	Test: Radiated Emissions- 30 kHz to 12.5 GHz			Client: Pineapple Parade LLC			
	Project: 14-0091	Requirement 15.109 Class: B		Model: TP0603V1			
Frequency (MHz)	Test Data (dBuV)	AF+CL-PA (dB)	Results (dBuV/m)	QP Limits (dBuV/m)	Distance / Polarity (meters)	Margin (dB)	Detector PK / QP
117.62	36.70	-15.89	20.81	43.5	3m/V	22.7	PK
140.54	30.58	-14.78	15.80	43.5	3m/V	27.7	PK
188.18	41.72	-12.42	29.30	43.5	3m/H	14.2	PK
386.09	40.60	-11.40	29.20	46.0	3m/H	16.8	PK
772.68	26.40	-6.00	20.40	46.0	3m/H	25.6	PK
544.84	29.95	-9.91	20.04	46.0	3m/V	26.0	PK
2702.57	45.06	-2.32	42.74	54.0	3m/V	11.3	PK

Tested from 30 kHz to 12.5 GHz.

All other emissions found more than 20 dB from the limit. The worst case emissions have been presented above.

SAMPLE CALCULATION: at 117.62 MHz, = 36.70 dBuV + (-15.89) dB/m = 20.81 dBuV/m @ 3m

Test Date: May 01, 2014

Tested by
Signature: 

Name: John Wynn

US Tech
Test Report:
Date:
Model(s):
FCC ID:
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2.15 Measurement Uncertainty

The measurement uncertainties given were calculated using the method detailed in CISPR 16-4. A coverage factor of $k=2$ was used to give a level of confidence of approximately 95%.

2.15.1 Conducted Emissions Measurement Uncertainty

Measurement Uncertainty (within a 95% confidence level) for this test is ± 2.8 dB.

The data listed in this test report does have sufficient margin to negate the effects of uncertainty. Therefore, the EUT unconditionally meets this requirement

2.15.2 Radiated Emissions Measurement Uncertainty

For a measurement distance of 3 m the measurement uncertainty (with a 95% confidence level) for this test using a Biconical Antenna (30 MHz to 200 MHz) is ± 5.3 dB. This value includes all elements of measurement.

The measurement uncertainty (with a 95% confidence level) for this test using a Log Periodic Antenna (200 MHz to 1000 MHz) is ± 5.1 dB.

The measurement uncertainty (with a 95% confidence level) for this test using a Horn Antenna is ± 5.2 dB.

The data listed in this test report does have sufficient margin to negate the effects of uncertainty. Therefore, the EUT unconditionally meets this requirement.