



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

PICO PLUG-IN

MODEL NUMBER: 3PCL

**FCC ID: JPZ0099
IC: 2851A-JPZ0099**

REPORT NUMBER: 10067364

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Prepared for
**LUTRON ELECTRONICS CO INC.
7200 SUTER RD
COOPERSBURG
PA, 18036, USA**

Prepared by
**UL LLC
1285 WALT WHITMAN RD.
MELVILLE, NY 11747, U.S.A.
TEL: (631) 271-6200
FAX: (877) 854-3577**



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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	2013-09-16	Initial Issue	B. DeLisi

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Lutron Electronics Inc
7200 Suter Road
Coopersburg, PA, 18036, USA

EUT DESCRIPTION: Pico Plug-in

MODEL: 3PCL

SERIAL NUMBER: Non-serialized Production Unit

DATE TESTED: 2013-09-11 through 2013-09-14

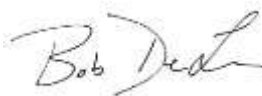
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 8, Annex 1	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations of these calculations. The results show that the equipment is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation, as described by the referenced documents. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL By:

Tested By:



Michael Antola
WiSE Project Lead
UL LLC

Bob DeLisi
WiSE Principal Engineer
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1285 Walt Whitman Rd. Melville, NY 11747, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/1002550.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.3 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.00 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a direct plug-in wall dimmer with a wireless transceiver operating on channels between 431MHz and 437MHz.

This report covers a Class 2 permissive change due to an updated printed wiring board and filtering components.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal integral wire antenna..

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was MmwPid_FCC_Internal_Clock.sap

5.4. WORST-CASE CONFIGURATION AND MODE

For radiated tests, the device was tested at the lowest and highest channels. It was configured in the worst case orientation found during preliminary testing. The worst case orientation was determined to be the X-orientation.

5.5. MODIFICATIONS

No modifications were necessary.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Lamp	GE	120W	N/A	N/A

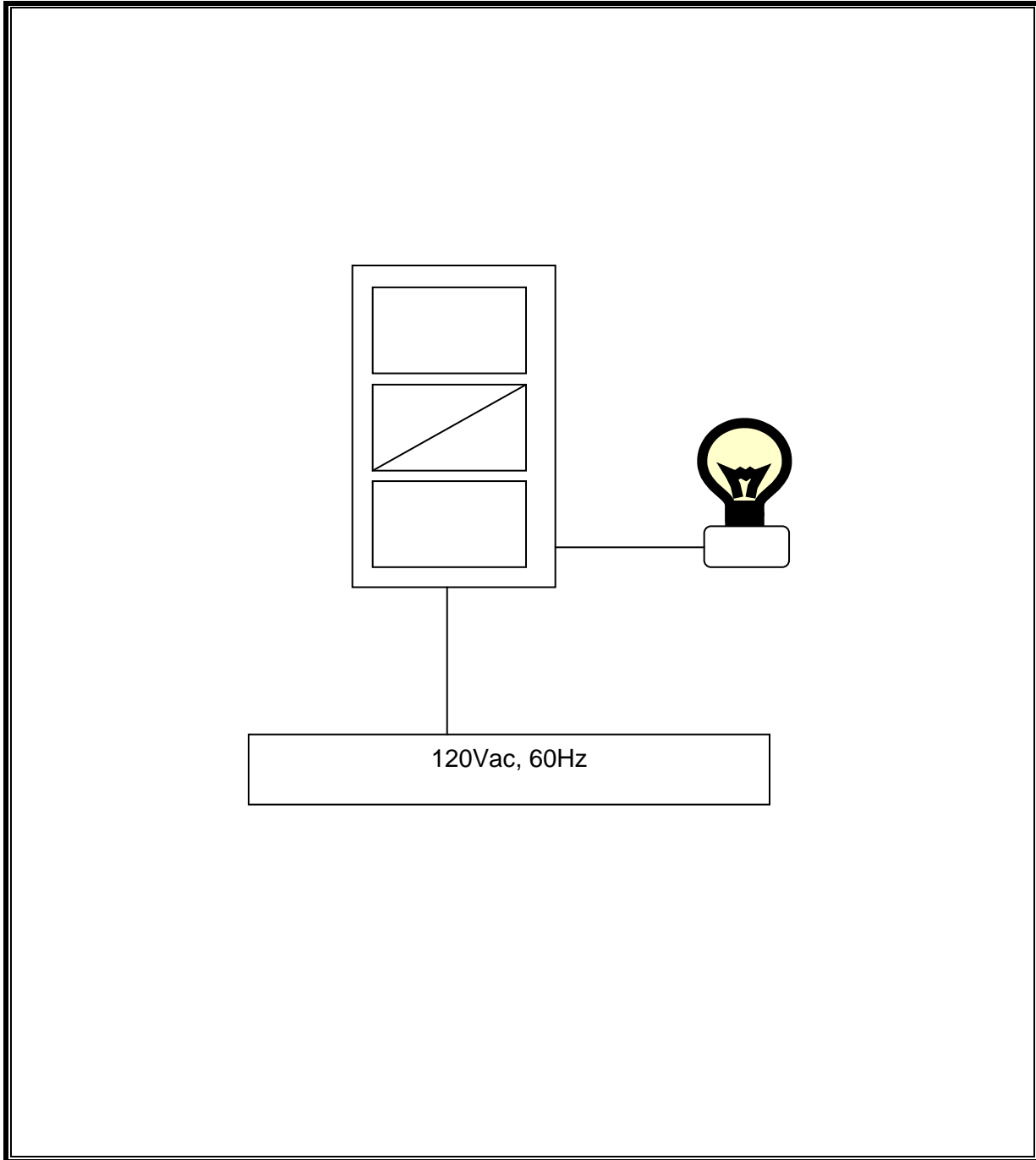
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	IEC	Unshielded	>3m	Connection between EUT and lamp

TEST SETUP

The EUT is a stand-alone device connected to a lamp load which directly plugs into the side of the unit.

SETUP DIAGRAM FOR TESTS



5.7. DUTY CYCLE (From Original Filing)

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1 MHz and the VBW is set to 1 MHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

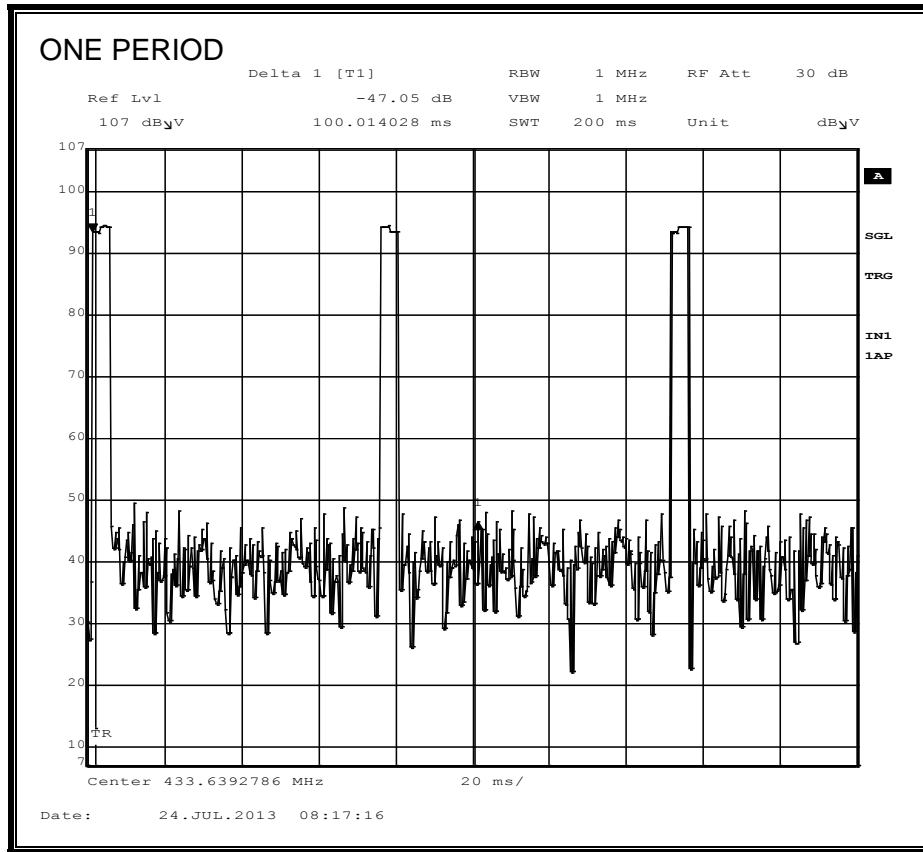
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

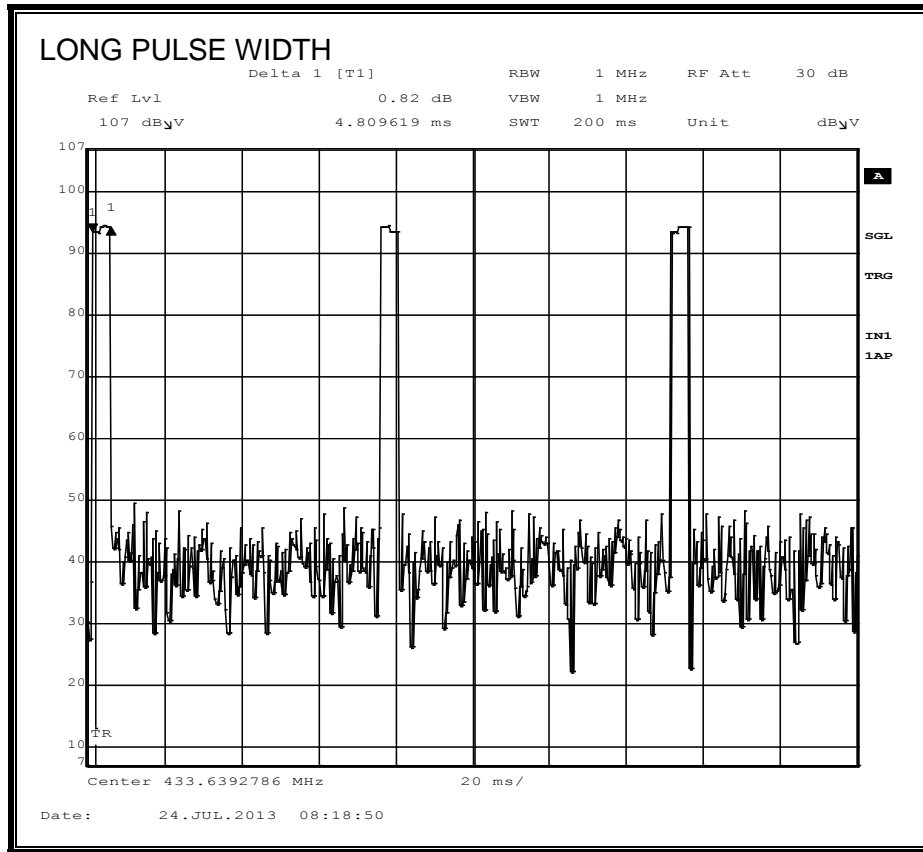
No non-compliance noted:

One Period (ms)	Long Pulse Width (ms)	# of Long Pulses	Short Width (ms)	# of Short Pulses	Duty Cycle	20*Log Duty Cycle (dB)
100	4.8	1	4.80	1	0.096	-20.35

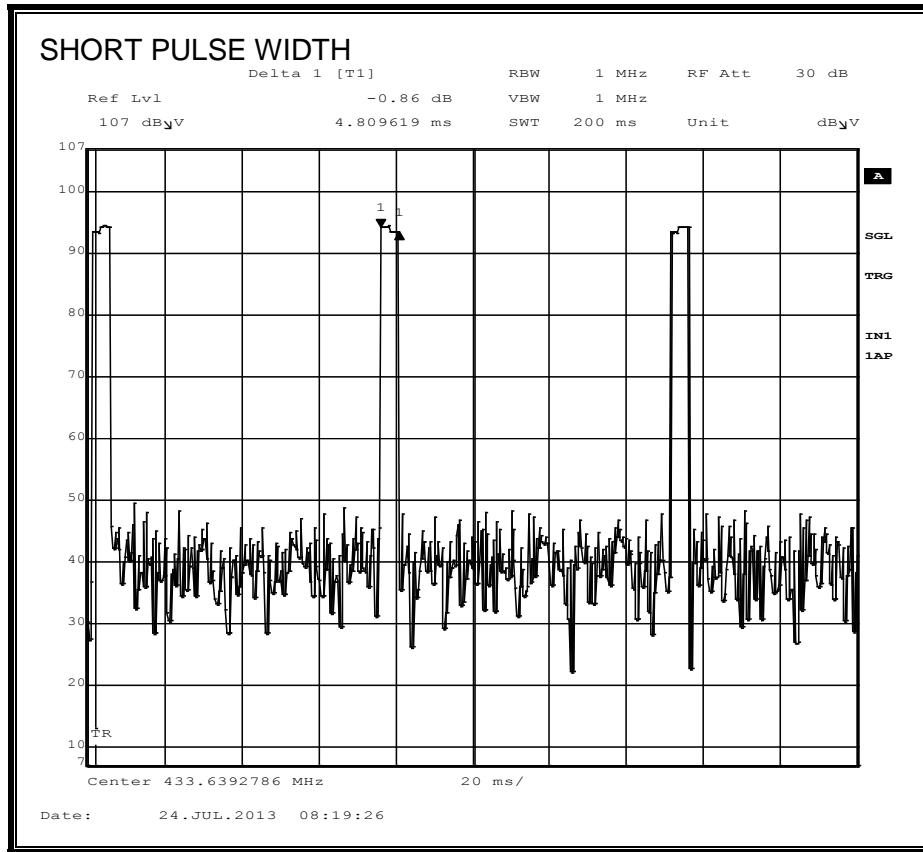
ONE PERIOD



LONG PULSE WIDTH



SHORT PULSE WIDTH



6. RADIATED EMISSION TEST RESULTS

6.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)
 IC A1.1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Frequency (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 ¹	125 to 375 ¹
174 - 260	3,750	375
260 - 470	3,750 to 12,500 ¹	375 to 1,250 ¹
Above 470	12,500	1,250

¹ Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30 88	100 **	3
88 216	150 **	3
216 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and. Average readers were calculated by applying the duty cycle correction factor to the peak measurements where emissions were components of the fundamental. Other emissions were measured using a 10Hz video bandwidth for average measurements.

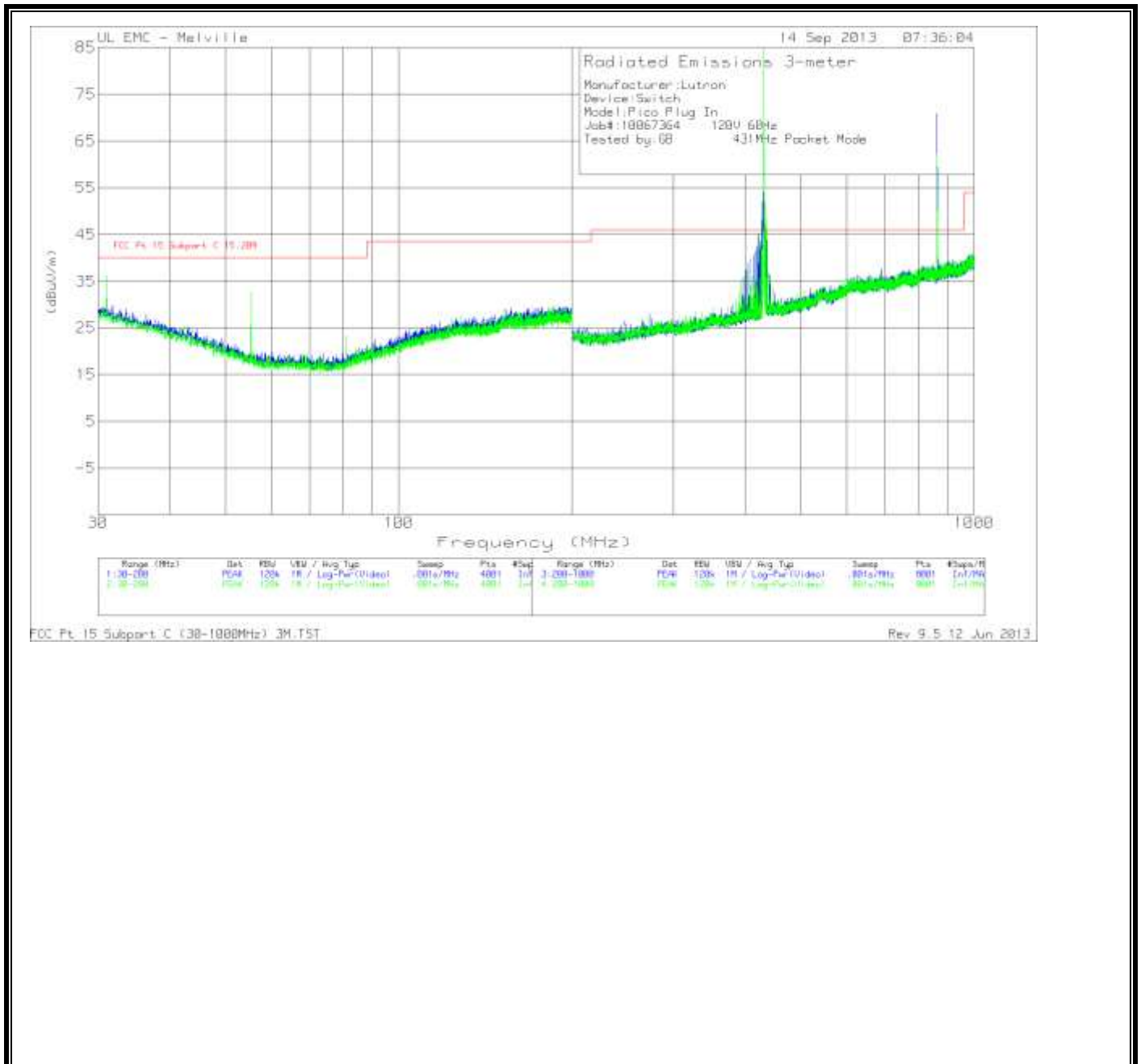
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

Device does not intentionally generate frequencies below 30MHz therefore measurements above 30MHz were made.

No non-compliance noted:

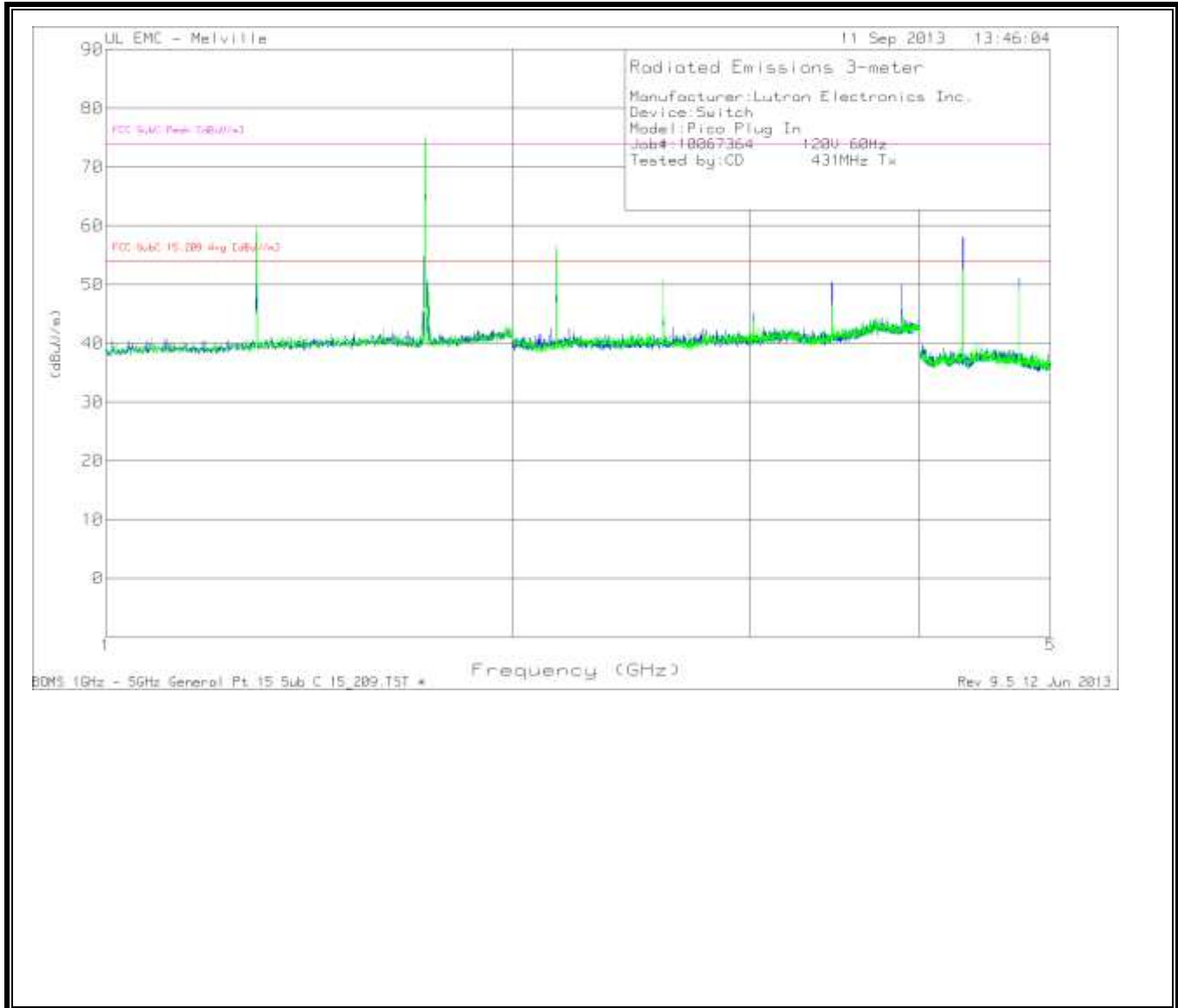
FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz) – Low Channel



Frequency (M Hz)	Meter	Det	AF-67 [dB/m]	GL-3M [dB]	Corrected Reading (dBuV/m)	DCF (dB)	Corrected Average (dBuV/m)	FCC Pt 15 Subpart C 15.231	Margin (dB)	FCC Pt 15 Subpart C 15.209	Margin (dB)	FCC	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	Reading (dBuV)											Part 15 Peak				
430.9675	77.53	PK	16.1	14	95.03	-20.4	74.68	80.9	-6.22	-	-	100.9	-5.87	125	105	H
861.9224	40.95	PK	219	2.2	65.05	-20.4	44.7	60.9	-16.2	-	-	80.9	-15.85	122	174	H
430.964	75	PK	16.1	14	92.5	-20.4	72.15	80.9	-8.75	-	-	100.9	-8.4	317	128	V
862.0795	36.26	PK	219	2.2	60.36	-20.4	40.01	60.9	-20.89	-	-	80.9	-20.54	52	192	V
429	19.53	QP	15.9	15	36.93	-	-	-	-	46	-9.07	-	-	143	100	H
413.5	7.46	QP	15.6	15	24.56	-	-	-	-	46	-21.44	-	-	122	102	H
418	9.92	QP	15.6	14	26.92	-	-	-	-	46	-19.08	-	-	286	102	H
421	8.25	QP	15.6	14	25.25	-	-	-	-	46	-20.75	-	-	283	105	H
426	12.49	QP	15.8	14	29.69	-	-	-	-	46	-16.31	-	-	282	100	H
426	12.54	QP	15.8	14	29.74	-	-	-	-	46	-16.26	-	-	282	100	H
434.5	15.09	QP	16.4	14	32.89	-	-	-	-	46	-13.11	-	-	100	103	H
436.9	10.01	QP	16.5	15	28.01	-	-	-	-	46	-17.99	-	-	109	100	H
423.1	8.27	QP	15.7	14	25.37	-	-	-	-	46	-20.63	-	-	100	220	V
420.6	7.62	QP	15.6	14	24.62	-	-	-	-	46	-21.38	-	-	100	220	V
425.9	11.91	QP	15.8	14	29.11	-	-	-	-	46	-16.89	-	-	118	191	V
432.6	24.8	QP	16.2	15	42.5	-	-	-	-	46	-3.5	-	-	112	194	V
433.5	20.27	QP	16.3	14	37.97	-	-	-	-	46	-8.03	-	-	114	198	V
435.5	13.55	QP	16.4	15	31.45	-	-	-	-	46	-14.55	-	-	109	195	V

PK - Peak detector
 QP – Quasi-Peak detector

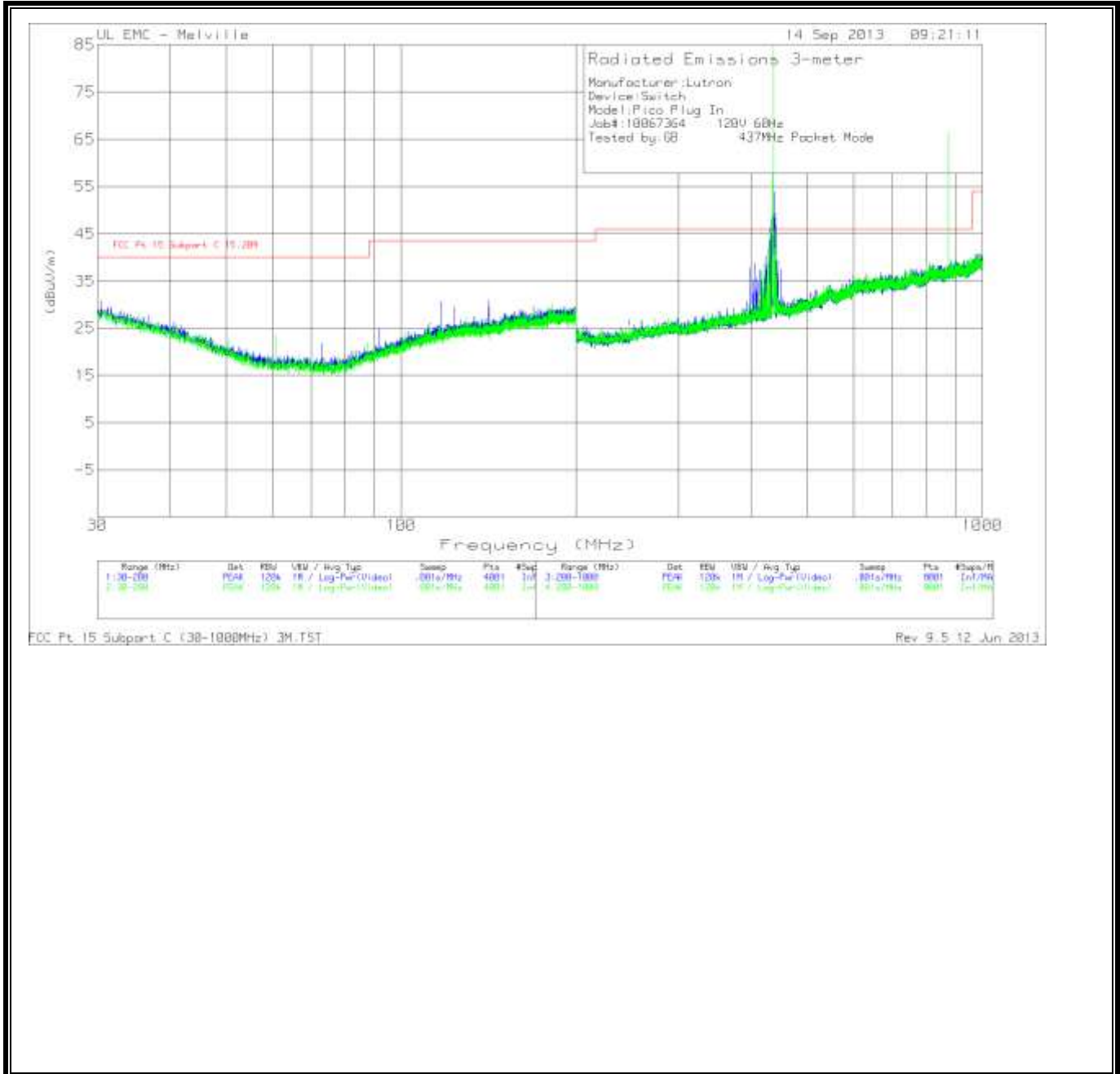
HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz – Low Channel



Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1.2931	79.21	PK	20.5	-44.15	55.56	-20.35	35.21	54	-18.79			74	-18.44	339	156	H
1.2932	87.8	PK	20.5	-44.14	64.16	-20.35	43.81	54	-10.19			74	-9.84	125	126	V
1.7239	101.61	PK	20.8	-43.57	78.84	-20.35	58.49	-	-	60.7	-2.21	80.7	-1.86	333	320	V
1.7238	100.86	PK	20.8	-43.55	78.11	-20.35	57.76	-	-	60.7	-2.94	80.7	-2.59	43	352	H
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48107 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)			FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.1548	79.63	PK	21.4	-43.12	57.91	-20.35	37.56	54	-16.44	-	-	74	-16.09	0	185	H
2.1552	78.95	PK	21.4	-43.14	57.21	-20.35	36.86	54	-17.14	-	-	74	-16.79	279	295	V
2.5858	71.44	PK	21.3	-42.48	50.26	-20.35	29.91	54	-24.09	-	-	74	-23.74	347	395	V
2.5862	72.81	PK	21.3	-42.48	51.63	-20.35	31.28	54	-22.72	-	-	74	-22.37	119	305	H
3.0169	67.86	PK	21.5	-41.62	47.74	-20.35	27.39	54	-26.61	-	-	74	-26.26	351	278	H
3.017	67.49	PK	21.5	-41.62	47.37	-20.35	27.02	54	-26.98	-	-	74	-26.63	69	250	V
3.4477	68.42	PK	22.1	-41.34	49.18	-20.35	28.83	54	-25.17	-	-	74	-24.82	58	281	V
3.4476	70.06	PK	22.1	-41.34	50.82	-20.35	30.47	54	-23.53	-	-	74	-23.18	146	351	H
3.8795	71.63	PK	22.6	-41.56	52.67	-20.35	32.32	54	-21.68	-	-	74	-21.33	98	298	H
3.8792	66.5	PK	22.6	-41.55	47.55	-20.35	27.2	54	-26.8	-	-	74	-26.45	198	337	V
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-48106 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)			FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.3095	78.73	PK	27.7	-51.27	55.16	-20.35	34.81	54	-19.19	-	-	74	-18.84	190	319	V
4.3102	78.55	PK	27.7	-51.26	54.99	-20.35	34.64	54	-19.36	-	-	74	-19.01	122	203	H
4.7406	74.7	PK	27.2	-51.84	50.06	-20.35	29.71	54	-24.29	-	-	74	-23.94	120	144	H
4.7407	75.95	PK	27.2	-51.84	51.31	-20.35	30.96	54	-23.04	-	-	74	-22.69	129	271	V

PK - Peak detector

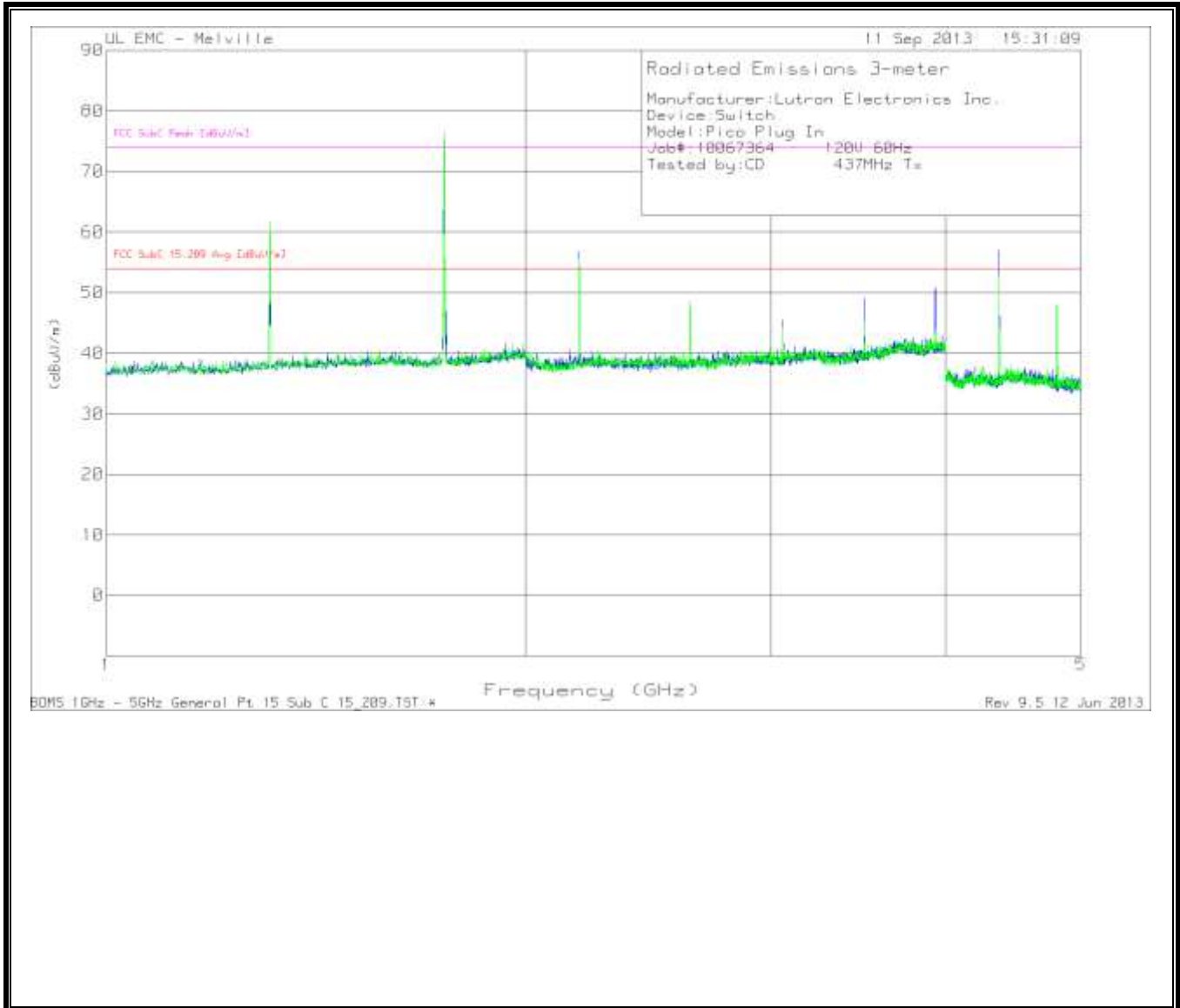
FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz) – High Channel



Frequency (MHz)	Meter Reading (dBuV)	Det	AF-67 [dB/m]	GL-3M [dB]	Corrected		Corrected Average (dBuV/m)	FCC Pt 15 Subpart C 15.231	Margin (dB)	FCC Pt 15 Subpart C 15.209	Margin (dB)	FCC		Azimuth (Degs)	Height (cm)	Polarity
					Reading (dBuV/m)	DCF (dB)						Part 15 Peak	Margin (dB)			
437.0544	76.39	PK	16.5	1.5	94.39	-20.4	74.04	80.9	-6.86	-	-	100.9	-6.51	125	105	H
874.0778	44.01	PK	22.6	2.1	68.71	-20.4	48.36	60.9	-12.54	-	-	80.9	-12.19	122	174	H
874.0792	44.65	PK	22.6	2.1	69.35	-20.4	49	60.9	-119	-	-	80.9	-11.55	317	128	V
436.963	74.58	PK	16.5	1.5	92.58	-20.4	72.23	80.9	-8.67	-	-	100.9	-8.32	52	192	V
429.9	8.45	QP	16	1.4	25.85	-	-	-	-	46	-20.15	-	-	99	100	H
431	9.72	QP	16.1	1.4	27.22	-	-	-	-	46	-18.78	-	-	140	100	H
433	11.51	QP	16.2	1.5	29.21	-	-	-	-	46	-16.79	-	-	131	100	H
433.7	12.96	QP	16.3	1.4	30.66	-	-	-	-	46	-15.34	-	-	119	100	H
436	22.86	QP	16.4	1.5	40.76	-	-	-	-	46	-5.24	-	-	116	100	H
438.2	24.17	QP	16.5	1.5	42.17	-	-	-	-	46	-3.83	-	-	111	100	H
440	14.28	QP	16.6	1.5	32.38	-	-	-	-	46	-13.62	-	-	120	100	H
440.7	12.31	QP	16.6	1.5	30.41	-	-	-	-	46	-15.59	-	-	115	100	H
207.1038	-2.7	QP	10.9	0.7	8.9	-	-	-	-	43.5	-34.6	-	-	156	138	H
430.9	2.58	QP	16.1	1.4	20.08	-	-	-	-	46	-25.92	-	-	268	119	V
426.8	3.38	QP	15.8	1.5	20.68	-	-	-	-	46	-25.32	-	-	305	144	V
435.8	20.67	QP	16.4	1.5	38.57	-	-	-	-	46	-7.43	-	-	92	198	V
439.8	14.64	QP	16.6	1.5	32.74	-	-	-	-	46	-13.26	-	-	83	180	V
440.6	11.91	QP	16.6	1.5	30.01	-	-	-	-	46	-15.99	-	-	102	185	V

PK - Peak detector
 QP - Quasi-Peak detector

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz – High Channel



Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1.3108	77.71	PK	20.5	-44.27	53.94	-20.35	33.59	54	-20.41	-	-	74	-20.06	7	254	H
1.311	87.02	PK	20.5	-44.28	63.24	-20.35	42.89	54	-11.11	-	-	74	-10.76	119	215	V
1.748	99.73	PK	20.8	-43.77	76.76	-20.35	56.41	-	-	60.9	-4.49	80.9	-4.14	357	156	V
1.7482	98.61	PK	20.8	-43.77	75.64	-20.35	55.29	-	-	60.9	-5.61	80.9	-5.26	41	247	H
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.1848	77.46	PK	21.5	-43.11	55.85	-20.35	35.5	54	-18.5	-	-	74	-18.15	321	179	H
2.1849	80.08	PK	21.5	-43.11	58.47	-20.35	38.12	54	-15.88	-	-	74	-15.53	310	143	V
2.6223	71.25	PK	21.4	-42.18	50.47	-20.35	30.12	54	-23.88	-	-	74	-23.53	200	344	V
2.6223	71.83	PK	21.4	-42.17	51.06	-20.35	30.71	54	-23.29	-	-	74	-22.94	126	233	H
3.0589	67.82	PK	21.6	-41.64	47.78	-20.35	27.43	54	-26.57	-	-	74	-26.22	356	212	H
3.4962	68.95	PK	22.2	-41.47	49.68	-20.35	29.33	54	-24.67	-	-	74	-24.32	182	239	H
3.9329	71.83	PK	22.7	-41.37	53.16	-20.35	32.81	54	-21.19	-	-	74	-20.84	182	325	H
3.0593	68.8	PK	21.6	-41.67	48.73	-20.35	28.38	54	-25.62	-	-	74	-25.27	68	390	V
3.4957	68.32	PK	22.2	-41.49	49.03	-20.35	28.68	54	-25.32	-	-	74	-24.97	61	382	V
3.933	66.34	PK	22.7	-41.38	47.66	-20.35	27.31	54	-26.69	-	-	74	-26.34	18	223	V
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	AF-51442 [dB/m]	BOMS Factor (dB)	Corrected Reading (dBuV/m)	DCF (dB)	Corrected Average Reading (dBuV/m)	FCC SubC 15.209 Avg [dBuV/m]	Margin (dB)	FCC SubC 15.231 Avg [dBuV/m]	Margin (dB)	FCC SubC Peak [dBuV/m]	PK Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.3698	78.19	PK	27.6	-51.54	54.25	-20.35	33.9	54	-20.1	-	-	74	-19.75	216	261	V
4.8075	75.78	PK	27.1	-52.24	50.64	-20.35	30.29	54	-23.71	-	-	74	-23.36	136	306	V
4.8066	72.73	PK	27.1	-52.19	47.64	-20.35	27.29	54	-26.71	-	-	74	-26.36	235	361	H
4.3703	79.65	PK	27.6	-51.53	55.72	-20.35	35.37	54	-18.63	-	-	74	-18.28	117	165	H

7. SETUP PHOTOS

RADIATED EMISSION FOR PORTABLE CONFIGURATION – X ORIENTATION



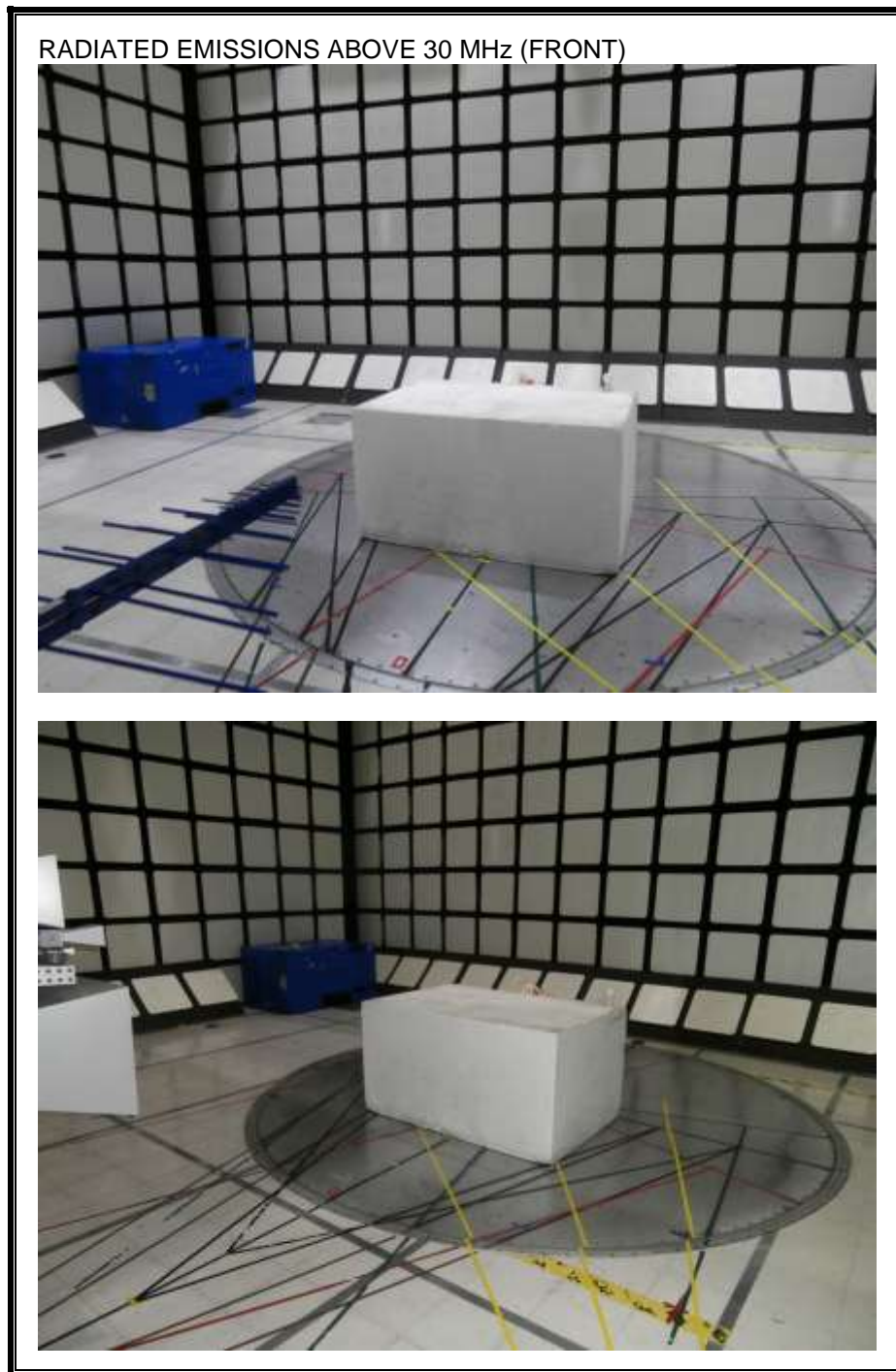
RADIATED EMISSION FOR PORTABLE CONFIGURATION – Y ORIENTATION



RADIATED EMISSION FOR PORTABLE CONFIGURATION – Z ORIENTATION



RADIATED EMISSION ABOVE 30 MHz



RADIATED EMISSIONS ABOVE 30 MHz (BACK)



END OF REPORT