FCC PART 15 SUBPART B and C
TEST REPORT

for

ALL CLEAR RADIO BOX

MODEL: 892439

Prepared for

ALL CLEAR SYSTEM, LLC
235 EAST CENTER STREET SUITE 200
KINGSPORT, TENNESSEE 37660

Prepared by:_____

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DATE: MARCH 2, 2012

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
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GENERAL REPORT SUMMARY

Compatible Electronics Inc. generates this electromagnetic emission test report, which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested:	All Clear Radio Box Model: 892439 S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified in order to meet the specifications.
Customer:	All Clear System 235 East Center Street Suite 200 Kingsport, Tennessee 37660
Test Date(s):	February 1, 2, 3, 6, and 28, 2012; and March 2, 2012
Test Specifications:	Emissions requirements CFR Title 47, Part 15, Subpart B
Test Procedure:	ANSI C63.4
Test Deviations:	The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions 150 kHz to 30 MHz	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C section 15.207.
2	Radiated RF Emissions 10 kHz – 4180 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.
3	Radiated RF Emissions 10 kHz – 4180 MHz (Receiver and Digital Portion)	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B.

*U = Expanded Uncertainty with a coverage factor of k=2

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the All Clear Radio Box, Model: 892439. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital and receiver portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.231 for the transmitter portion.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

All Clear System, LLC

Gary McConnell President / COO

Compatible Electronics Inc.

Alex Benitez Test Engineer
Kyle Fujimoto Test Engineer

2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

2.5 Disposition of the Test Sample

The test sample has not been returned to All Clear System, LLC as of the date of this report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

FCC	Federal Communications Commission
RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
ITE	Information Technology Equipment
LISN	Line Impedance Stabilization Network
NVLAP	National Voluntary Laboratory Accreditation Program
CFR	Code of Federal Regulations
N/A	Not Applicable
LLC	Limited Liability Company
Inc.	Incorporated
IR	Infrared
COO	Chief Operating Officer

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emissions test report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4: 2009	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The All Clear Radio Box, Model: 892439 (EUT) was connected to an antenna and laptop via its antenna and USB ports, respectively.

The laptop was also connected to an AC Adapter, mouse and external disk drive via its power and (2) USB ports, respectively.

The EUT was continuously transmitting and receiving. The EUT also received it power from the USB port of the laptop.

The following antennas were tested with the EUT

1. Raydome antenna with short cable
2. Raydome antenna with long cable.
3. Monopole Anenna with 12 foot cable

It was determined that the emissions were at their highest level when the EUT was operating in the above configurations. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

4.1.1 Cable Construction and Termination

Cable 1 This is a 2-meter unshielded cable connecting the AC Adapter to the laptop. The cable has a one pin power connector at the laptop end and is hard wired into the AC Adapter. The cable was bundled to a length of 1-meter.

Cable 2 This is a 2-meter shielded cable connecting the laptop to the mouse. The cable has a USB type 'A' connector at the laptop end and is hard wired into the mouse. The shield of the cable was grounded to the chassis via the connector.

Cable 3 This is a 3-meter braid shielded cable connecting the EUT to the laptop. The cable has a USB type 'A' connector at the laptop end and a USB type 'B' connector at the EUT end. The cable was bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connectors.

Cable 4 **(Raydome Antenna with Long Cable)** This is a 100-foot braid shielded cable connecting the Raydome antenna to the EUT. The cable has a reverse polarity SMA connector at the EUT end and is hard wired into the antenna. The cable was coiled so that it was 40-centimeters above the ground plane. The shield of the cable was grounded to the chassis via the connectors.

Cable 5 **(Raydome Antenna with Short Cable)** This is a 20-centimeter braid shielded cable connecting the Raydome antenna to the EUT. The cable has a reverse polarity SMA connector at the EUT end and is hard wired into the antenna. The shield of the cable was grounded to the chassis via the connectors.

Cable 6 **(Monopole Antenna)** This is a 12-foot braid shielded cable connecting the monopole antenna to the EUT. The cable has a reverse polarity SMA connector at the EUT end and is hard wired into the antenna. The shield of the cable was grounded to the chassis via the connectors.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
ALL CLEAR RADIO BOX (EUT)	ALL CLEAR SYSTEM, LLC	892439	N/A	ZZK892439
DISK DRIVE – EXTERNAL	N/A	FD-05PUB	U356244	N/A
LAPTOP	HEWLETT PACKARD	G60-441US	2CE927RF3Q	N/A
AC ADAPTER FOR G60-441US LAPTOP	HEWLETT PACKARD	N/A	65AW9682BE6	N/A
MOUSE	LOGITECH	M-UAE96	N/A	N/A
LAPTOP (for MONOPOLE ANTENNA TESTING)	HEWLETT PACKARD	2760P	2CE14409SS	N/A
POWER SUPPLY FOR 2760P LAPTOP	N/A	N/A	WBGST0A1R1IAUZ	N/A

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 27, 2011	May 27, 2012
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A14530	May 27, 2011	May 27, 2012
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 27, 2011	May 27, 2012
EMI Receiver	Rohde & Schwarz	ESIB40	100194	November 19, 2010	November 19, 2012
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Biconical Antenna	Com-Power	AB-900	15250	June 8, 2011	June 8, 2012
Log Antenna	Com-Power	AL-100	16252	June 8, 2011	June 8, 2012
Preamplifier	Com-Power	PA-102	1017	December 28, 2011	December 28, 2012
Loop Antenna	Com-Power	AL-130	17089	January 21, 2011	January 21, 2013
Horn Antenna	Com-Power	AH-118	071175	March 18, 2010	March 18, 2012
Microwave Preamplifier	Com-Power	PA-118	181656	December 28, 2011	December 28, 2012
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
LISN	Com Power	LI-215	12078	June 20, 2011	June 20, 2012
LISN	Com Power	LI-215	12082	June 20, 2011	June 20, 2012
Transient Limiter	Com Power	252A910	1	November 7, 2011	November 7, 2012

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for emissions test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

6.3 Facility Environmental Characteristics

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The measurement receiver was used as a measuring meter. The data was collected with the measurement receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the measurement receiver's input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the measurement receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C section 15.207.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver and spectrum analyzer were used as a measuring meter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz and the Com Power Microwave Preamplifier Model: PA-118 was used for frequencies above 1 GHz. The EMI Receiver and spectrum analyzer were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver and spectrum analyzer records the highest measured reading over all the sweeps.

The quasi-peak function was used only for those readings which are marked accordingly on the data sheets.

The readings were averaged by a “duty cycle correction factor,” derived from 20 log (total on time / 100 mS). The pulse train only transmits a maximum of one time in a 100 mS period.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 4.18 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT by the Radiated Emission Manual Test software. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

Radiated Emissions (Spurious and Harmonics) Test (continued)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3-meter test distance to obtain the final test data.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.231.

7.1.3 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS – 115 VAC / 60 Hz
All Clear Radio Box, Model: 892439

Frequency MHz	Emission Level* dBuV	Average Specification Limit dBuV	Delta (Spec limit-Emission) dB
0.641(WL)(Av) Raydome – Tx Mode	43.18	46.00	-2.18
2.384 (WL)(Pk)	41.58	46.00	-4.42
0.151 (BL)(Pk)	51.52	55.92	-4.43
0.151 (WL)(Av)	51.36	55.95	-4.59
0.641 (WL)(Av) Monopole – Tx Mode	41.33	46.00	-4.67
0.152 (BL) (Pk)	51.22	55.91	-4.69

Table 2.0 RADIATED EMISSION RESULTS – 115 VAC / 60 Hz
All Clear Radio Box, Model: 892439

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
408.833 (V) (Qp)	44.44	46.00	-1.56
408.852 (V) (Qp)	44.41	46.00	-1.59
418 (H) (X-Axis) (Av) Raydome Short Cable	78.18	80.28	-2.1
418 (V) (Y-Axis) (Av) Raydome Short Cable	77.88	80.28	-2.4
418 (V) (Y-Axis) (Av) Raydome Short Cable	77.38	80.28	-2.9
432.882 (V) (Qp)	43.04	46.00	-2.96

Notes:

*	The complete emissions data is given in Appendix E of this report.		
Pk	Peak	Qp	Quasi-Peak
Av	Average	BL	Black Lead
WL	White Lead		

7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the EUT. A plot of the -20 dB bandwidth is located in Appendix E.

Test Results:

The EUT complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231(c).

7.3 Five Second Rule

The EUT was checked to insured the transmitter shuts off within five seconds of being activated. Photographs showing compliance to the five second rule are located in Appendix E.

Test Results:

The EUT complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231(a)(1) and section 15.231 (a)(2).

8. CONCLUSIONS

The All Clear Radio Box, Model: 892439 (EUT), as tested, meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital and receiver portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.231 for the transmitter portion.

APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS

NVLAP LAB CODES 200063-0, 200528-0, 200527-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

NVLAP listing links
Agoura Division / **Brea Division** / **Silverado/Lake Forest Division**

.Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."

ANSI listing CETCB

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).
US/EU MRA list NIST MRA site

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).
APEC MRA list NIST MRA site

We are also listed for IT products by the following country/agency:

VCCI Support member: Please visit http://www.vcci.jp/vcci_e/

FCC Listing, from FCC OET site
FCC test lab search https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm

Compatible Electronics IC listing can be found at:
http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 and/or FCC **Class B** specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modification were made to the EUT during the testing.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST All Clear Radio Box
Model: 892439

ALSO APPROVED UNDER THIS REPORT:

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

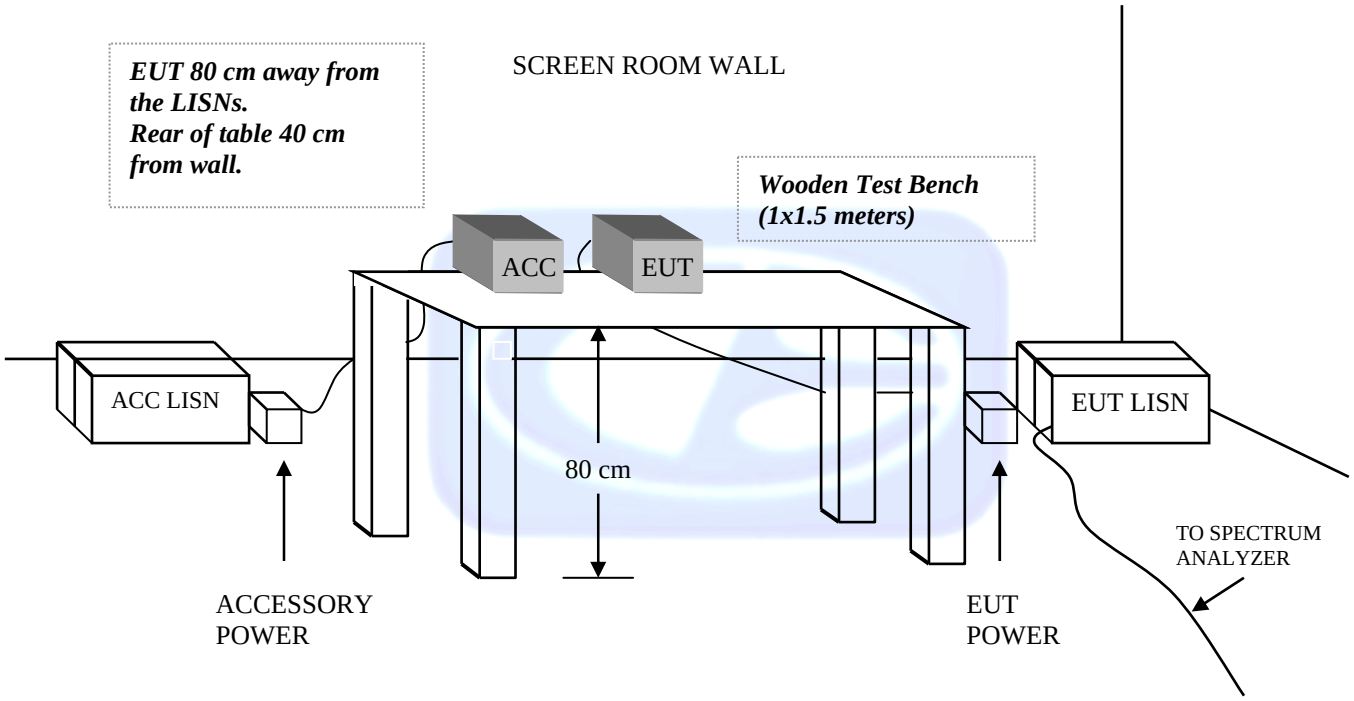
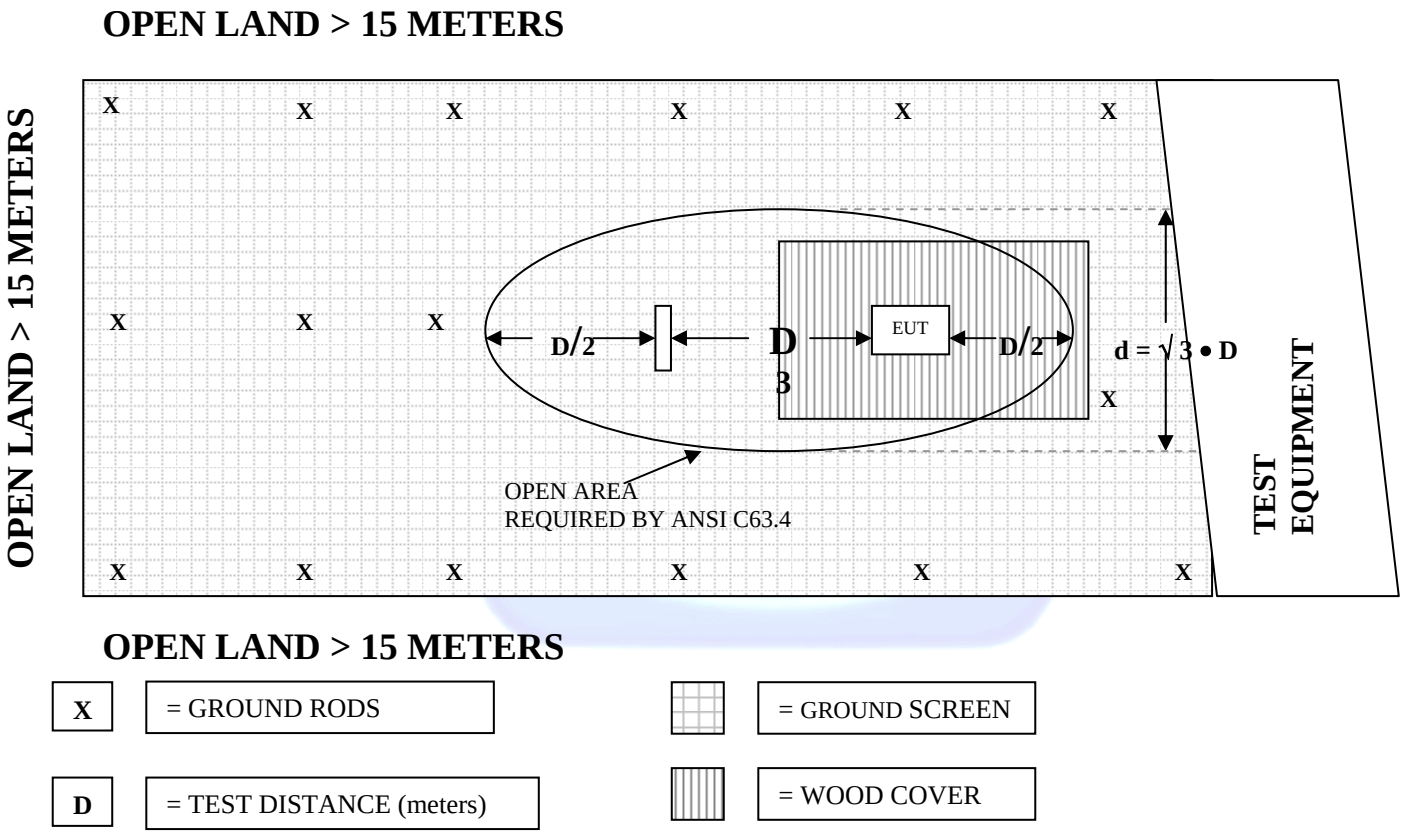


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15250

CALIBRATION DATE: JUNE 8, 2011

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	10.90	100	9.50
35	11.00	120	12.10
40	11.80	140	11.40
45	11.60	160	12.40
50	11.40	180	15.70
60	9.80	200	16.20
70	7.00	250	16.10
80	5.70	300	19.00
90	7.00		

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16252

CALIBRATION DATE: JUNE 8, 2011

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.30	700	20.40
400	15.50	800	20.60
500	15.80	900	20.10
600	20.20	1000	22.80

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: MARCH 18, 2010

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	22.2	10.0	39.8
1.5	24.2	10.5	40.2
2.0	27.2	11.0	39.7
2.5	27.8	11.5	39.9
3.0	30.5	12.0	41.7
3.5	30.9	12.5	42.7
4.0	31.9	13.0	42.3
4.5	33.2	13.5	40.3
5.0	33.6	14.0	42.6
5.5	36.2	14.5	43.4
6.0	35.8	15.0	41.9
6.5	36.1	15.5	40.8
7.0	37.9	16.0	41.0
7.5	37.4	16.5	41.5
8.0	38.0	17.0	44.5
8.5	38.8	17.5	47.6
9.0	38.0	18.0	50.8
9.5	39.2		

COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: DECEMBER 28, 2011

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.54	300	38.45
40	38.53	350	38.47
50	38.57	400	38.36
60	38.54	450	38.07
70	38.54	500	38.31
80	38.54	550	38.37
90	38.54	600	38.28
100	38.53	650	38.19
125	38.51	700	38.24
150	38.43	750	37.88
175	38.56	800	37.94
200	38.50	850	37.65
225	38.46	900	37.50
250	38.57	950	37.47
275	38.45	1000	36.86

COM-POWER PA-118

PREAMPLIFIER

S/N: 181656

CALIBRATION DATE: DECEMBER 28, 2011

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	23.22	10.0	24.66
1.5	26.31	10.5	25.22
2.0	27.40	11.0	25.17
2.5	26.52	11.5	24.47
3.0	27.35	12.0	25.29
3.5	29.02	12.5	26.03
4.0	28.51	13.0	24.11
4.5	26.62	13.5	24.28
5.0	27.13	14.0	25.81
5.5	27.29	14.5	25.45
6.0	26.72	15.0	25.36
6.5	25.62	15.5	26.76
7.0	25.25	16.0	28.09
7.5	24.23	16.5	23.23
8.0	23.72	17.0	26.58
8.5	24.91	17.5	27.45
9.0	25.73	18.0	27.53
9.5	24.79		

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – SHORT CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – SHORT CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – LONG CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – LONG CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – MONOPOLE ANTENNA – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

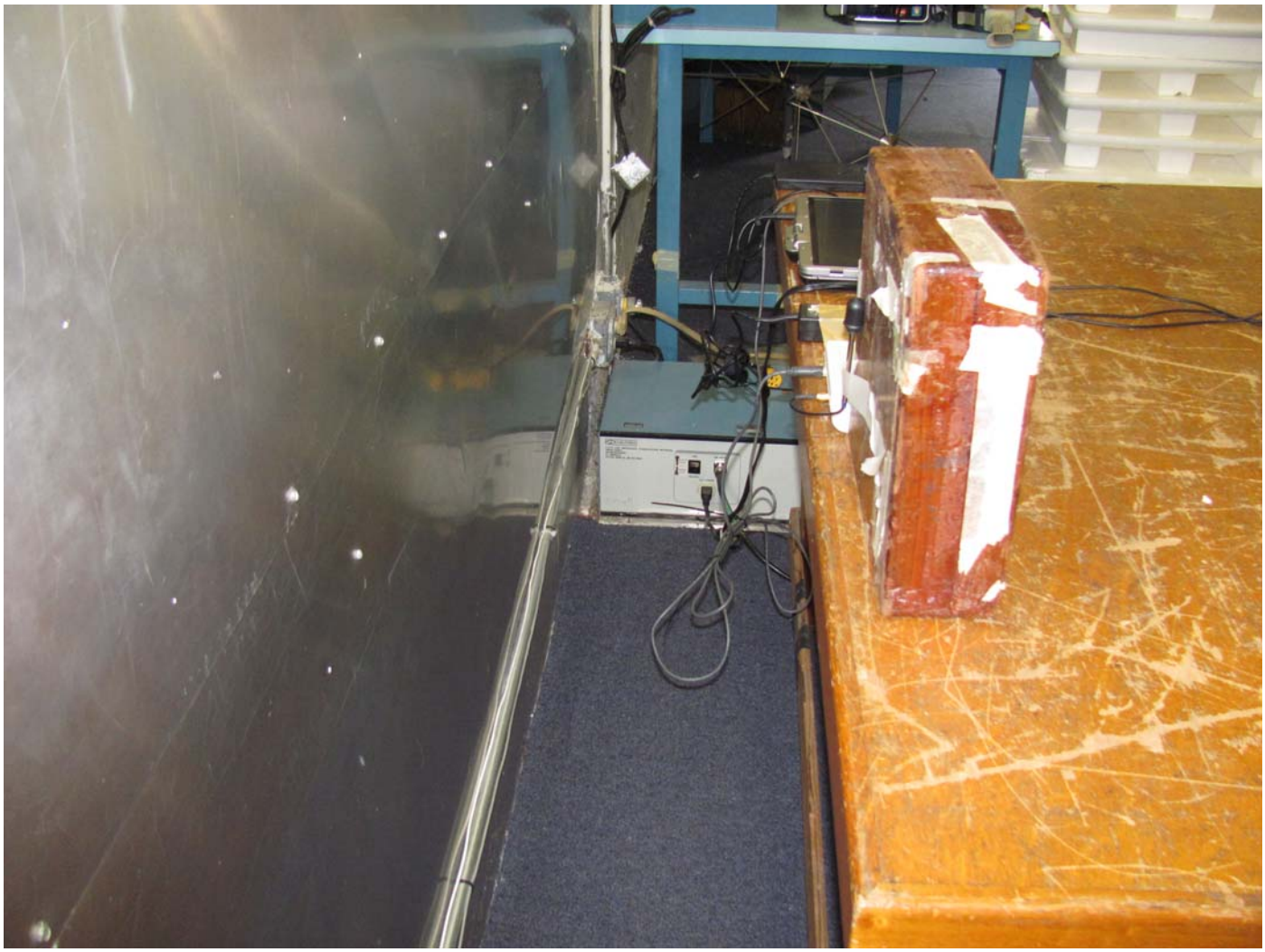
ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – MONOPOLE ANTENNA – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – SHORT CABLE – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

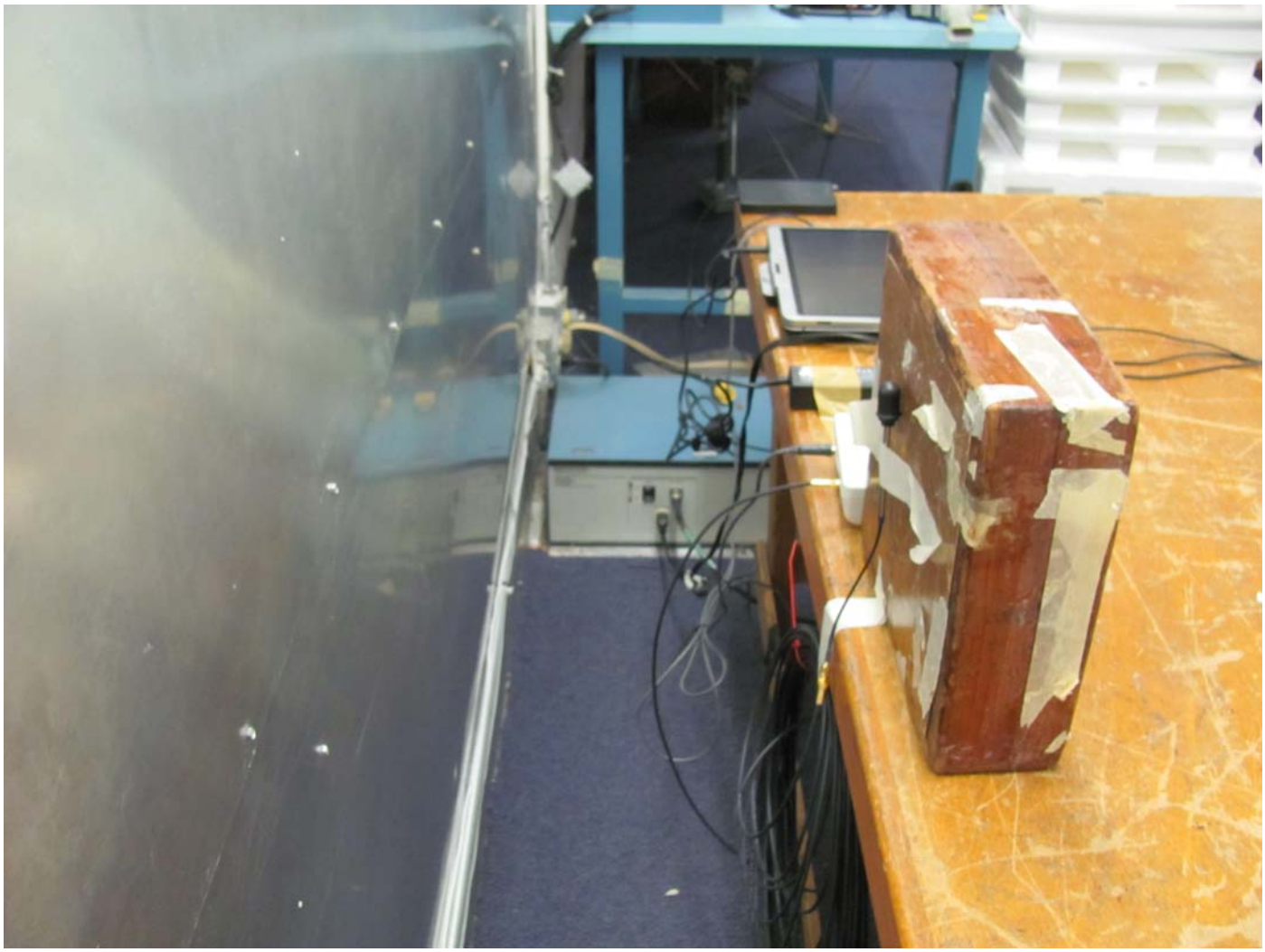
ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – SHORT CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – LONG CABLE – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – RAYDOME ANTENNA – LONG CABLE – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – MONOPOLE ANTENNA – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

ALL CLEAR SYSTEM, LLC
ALL CLEAR RADIO BOX
MODEL: 892439
FCC SUBPART B AND C – MONOPOLE ANTENNA – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Dates: 02/01/2012 and 02/02/2012
Labs: B and D
Tested By: Kyle Fujimoto

X-Axis - Raydome Antenna - Short Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	91.26	V	100.28	-9.02	Peak	1	135	
418	73.78	V	80.28	-6.5	Avg	1	135	
836	44.22	V	80.28	-36.06	Peak	1	135	
836	26.74	V	60.28	-33.54	Avg	1	135	
1254	38.32	V	74	-35.68	Peak	2	180	
1254	20.84	V	54	-33.16	Avg	2	180	
1672	44.25	V	74	-29.75	Peak	1.25	135	
1672	26.77	V	54	-27.23	Avg	1.25	135	
2090	48.17	V	80.28	-32.11	Peak	1	180	
2090	30.69	V	60.28	-29.59	Avg	1	180	
2508	41.61	V	80.28	-38.67	Peak	1.25	135	
2508	24.13	V	60.28	-36.15	Avg	1.25	135	
2926	39.26	V	80.28	-41.02	Peak	1.55	145	
2926	21.78	V	60.28	-38.5	Avg	1.55	145	
3344	44.47	V	80.28	-35.81	Peak	1.25	155	
3344	26.99	V	60.28	-33.29	Avg	1.25	155	
3762	41.01	V	74	-32.99	Peak	1.25	155	
3762	23.53	V	54	-30.47	Avg	1.25	155	
4180	41.61	V	74	-32.39	Peak	1	180	
4180	24.13	V	54	-29.87	Avg	1	180	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Dates: 02/01/2012 and 02/02/2012
Labs: B and D
Tested By: Kyle Fujimoto

X-Axis - Raydome Antenna - Short Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	95.66	H	100.28	-4.62	Peak	1	180	
418	78.18	H	80.28	-2.1	Avg	1	180	
836	70.52	H	80.28	-9.76	Peak	1	180	
836	53.04	H	60.28	-7.24	Avg	1	180	
1254	37.43	H	74	-36.57	Peak	1.25	225	
1254	19.95	H	54	-34.05	Avg	1.25	225	
1672	44.44	H	74	-29.56	Peak	1.25	165	
1672	26.96	H	54	-27.04	Avg	1.25	165	
2090	44.46	H	80.28	-35.82	Peak	1.35	165	
2090	26.98	H	60.28	-33.3	Avg	1.35	165	
2508	42.18	H	80.28	-38.1	Peak	1.25	155	
2508	24.7	H	60.28	-35.58	Avg	1.25	155	
2926	43.14	H	80.28	-37.14	Peak	1.35	165	
2926	25.66	H	60.28	-34.62	Avg	1.35	165	
3344	42.57	H	80.28	-37.71	Peak	1.25	175	
3344	25.09	H	60.28	-35.19	Avg	1.25	175	
3762	41.26	H	74	-32.74	Peak	1.35	185	
3762	23.78	H	54	-30.22	Avg	1.35	185	
4180	41.15	H	74	-32.85	Peak	1.25	195	
4180	23.67	H	54	-30.33	Avg	1.25	195	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Dates: 02/01/2012 and 02/02/2012
Labs: B and D
Tested By: Kyle Fujimoto

Y-Axis - Raydome Antenna - Short Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	95.36	V	100.28	-4.92	Peak	1.25	45	
418	77.88	V	80.28	-2.4	Avg	1.25	45	
836	63.12	V	80.28	-17.16	Peak	1	90	
836	45.64	V	60.28	-14.64	Avg	1	90	
1254	39.31	V	74	-34.69	Peak	1.25	155	
1254	21.83	V	54	-32.17	Avg	1.25	155	
1672	47.91	V	74	-26.09	Peak	1.35	165	
1672	30.43	V	54	-23.57	Avg	1.35	165	
2090	42.96	V	80.28	-37.32	Peak	1.25	135	
2090	25.48	V	60.28	-34.8	Avg	1.25	135	
2508	40.16	V	80.28	-40.12	Peak	1.25	145	
2508	22.68	V	60.28	-37.6	Avg	1.25	145	
2926	44.08	V	80.28	-36.2	Peak	1.25	135	
2926	26.6	V	60.28	-33.68	Avg	1.25	135	
3344	45.81	V	80.28	-34.47	Peak	1.25	155	
3344	28.33	V	60.28	-31.95	Avg	1.25	155	
3762	42.79	V	74	-31.21	Peak	1.25	155	
3762	25.31	V	54	-28.69	Avg	125	155	
4180	44.93	V	74	-29.07	Peak	1.25	135	
4180	27.45	V	54	-26.55	Avg	1.25	135	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Dates: 02/01/2012 and 02/02/2012
Labs: B and D
Tested By: Kyle Fujimoto

Y-Axis - Raydome Antenna - Short Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	92.36	H	100.28	-7.92	Peak	1	135	
418	74.88	H	80.28	-5.4	Avg	1	135	
836	37.73	H	80.28	-42.55	Peak	1.25	155	
836	20.25	H	60.28	-40.03	Avg	1.25	155	
1254	34.04	H	74	-39.96	Peak	1.35	165	
1254	16.56	H	54	-37.44	Avg	1.35	165	
1672	47.41	H	74	-26.59	Peak	1.25	225	
1672	29.93	H	54	-24.07	Avg	1.25	225	
2090	42.91	H	80.28	-37.37	Peak	1.55	135	
2090	25.43	H	60.28	-34.85	Avg	1.55	135	
2508	42.14	H	80.28	-38.14	Peak	1.65	175	
2508	24.66	H	60.28	-35.62	Avg	1.65	175	
2926	39.91	H	80.28	-40.37	Peak	1.25	185	
2926	22.43	H	60.28	-37.85	Avg	1.25	185	
3344	42.71	H	80.28	-37.57	Peak	1.25	135	
3344	25.23	H	60.28	-35.05	Avg	1.25	135	
3762	39.83	H	74	-34.17	Peak	1.35	145	
3762	22.35	H	54	-31.65	Avg	1.35	145	
4180	42.23	H	74	-31.77	Peak	1.25	165	
4180	24.75	H	54	-29.25	Avg	1.25	165	

FCC Class B and FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/06/2012
Labs: B and D
Tested By: David Tran

Receiver, Digital Portion, and Non-Harmonic Emissions from the EUT – 1 GHz to 4.18 GHz Vertical and Horizontal Polarizations – Raydome Antenna – Short Cable

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1375	39.42	V	54	-14.58	Peak	1.25	130	Receive Mode
1598	40.22	V	54	-13.78	Peak	1.5	130	Receive Mode
1641	38.3	V	54	-15.7	Peak	1.5	170	Receive Mode
3283	45.31	V	54	-8.69	Peak	2.3	180	Receive Mode
1125	37.19	H	54	-16.81	Peak	1.1	180	Receive Mode
1375	39.72	H	54	-14.28	Peak	1.3	170	Receive Mode
3000	43.69	H	54	-10.31	Peak	1.2	20	Receive Mode
1198	45.44	H	54	-8.56	Peak	1.3	130	Transmit Mode
1375	39.98	H	54	-14.02	Peak	2.3	160	Transmit Mode
1625	37.29	H	54	-16.71	Peak	2.5	170	Transmit Mode
3283	44.27	H	54	-9.73	Peak	2.2	190	Transmit Mode
1375	39.11	V	54	-14.89	Peak	1.2	200	Transmit Mode
2493	43.36	V	54	-10.64	Peak	1.4	80	Transmit Mode

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/01/2012
Lab: D
Tested By: Kyle Fujimoto

X-Axis - Raydome Antenna - Long Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	81.01	V	100.28	-19.27	Peak	1	135	
418	63.53	V	80.28	-16.75	Avg	1	135	
836	35.82	V	80.28	-44.46	Peak	1	135	
836	18.34	V	60.28	-41.94	Avg	1	135	
1254	37.18	V	74	-36.82	Peak	1.25	155	
1254	19.7	V	54	-34.3	Avg	1.25	155	
1672	41.22	V	74	-32.78	Peak	1.35	145	
1672	23.74	V	54	-30.26	Avg	1.35	145	
2090	44.53	V	80.28	-35.75	Peak	1.25	155	
2090	27.05	V	60.28	-33.23	Avg	1.25	155	
2508	40.37	V	80.28	-39.91	Peak	1.55	135	
2508	22.89	V	60.28	-37.39	Avg	1.55	135	
2926	38.42	V	80.28	-41.86	Peak	1.65	175	
2926	20.94	V	60.28	-39.34	Avg	1.65	175	
3344	38.31	V	80.28	-41.97	Peak	1.85	195	
3344	20.83	V	60.28	-39.45	Avg	1.85	195	
3762	36.91	V	74	-37.09	Peak	1.25	155	
3762	19.43	V	54	-34.57	Avg	1.25	155	
4180	38.16	V	74	-35.84	Peak	1.35	165	
4180	20.68	V	54	-33.32	Avg	1.35	165	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/01/2012
Lab: D
Tested By: Kyle Fujimoto

X-Axis - Raydome Antenna - Long Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	87.91	H	100.28	-12.37	Peak	1	180	
418	70.43	H	80.28	-9.85	Avg	1	180	
836	44.72	H	80.28	-35.56	Peak	1	180	
836	27.24	H	60.28	-33.04	Avg	1	180	
1254	33.91	H	74	-40.09	Peak	1.25	155	
1254	16.43	H	54	-37.57	Avg	1.25	155	
1672	40.86	H	74	-33.14	Peak	1.25	165	
1672	23.38	H	54	-30.62	Avg	1.25	165	
2090	42.64	H	80.28	-37.64	Peak	1.25	175	
2090	25.16	H	60.28	-35.12	Avg	1.25	175	
2508	40.02	H	80.28	-40.26	Peak	1.35	185	
2508	22.54	H	60.28	-37.74	Avg	1.35	185	
2926	39.59	H	80.28	-40.69	Peak	1.25	195	
2926	22.11	H	60.28	-38.17	Avg	1.25	195	
3344	38.26	H	80.28	-42.02	Peak	1.55	205	
3344	20.78	H	60.28	-39.5	Avg	1.55	205	
3762	39.47	H	74	-34.53	Peak	1.65	215	
3762	21.99	H	54	-32.01	Avg	1.65	215	
4180	40.93	H	74	-33.07	Peak	1.25	155	
4180	23.45	H	54	-30.55	Avg	1.25	155	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/01/2012
Lab: D
Tested By: Kyle Fujimoto

Y-Axis - Raydome Antenna - Long Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	81.21	V	100.28	-19.07	Peak	1	180	
418	63.73	V	80.28	-16.55	Avg	1	180	
836	35.62	V	80.28	-44.66	Peak	1	180	
836	18.14	V	60.28	-42.14	Avg	1	180	
1254	36.87	V	74	-37.13	Peak	1.25	135	
1254	19.39	V	54	-34.61	Avg	1.25	135	
1672	45.21	V	74	-28.79	Peak	1.25	155	
1672	27.73	V	54	-26.27	Avg	1.25	155	
2090	43.48	V	80.28	-36.8	Peak	1.25	165	
2090	26	V	60.28	-34.28	Avg	1.25	165	
2508	38.97	V	80.28	-41.31	Peak	1.25	175	
2508	21.49	V	60.28	-38.79	Avg	1.25	175	
2926	44.21	V	80.28	-36.07	Peak	1.35	185	
2926	26.73	V	60.28	-33.55	Avg	1.35	185	
3344	41.43	V	80.28	-38.85	Peak	1.25	195	
3344	23.95	V	60.28	-36.33	Avg	1.25	195	
3762	38.91	V	74	-35.09	Peak	1.35	185	
3762	21.43	V	54	-32.57	Avg	1.35	185	
4180	44.22	V	74	-29.78	Peak	1.25	155	
4180	26.74	V	54	-27.26	Avg	1.25	155	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/01/2012
Lab: D
Tested By: Kyle Fujimoto

Y-Axis - Raydome Antenna - Long Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	87.51	H	100.28	-12.77	Peak	1	180	
418	70.03	H	80.28	-10.25	Avg	1	180	
836	39.32	H	80.28	-40.96	Peak	1	180	
836	21.84	H	60.28	-38.44	Avg	1	180	
1254	34.74	H	74	-39.26	Peak	1.25	135	
1254	17.26	H	54	-36.74	Avg	1.25	135	
1672	39.43	H	74	-34.57	Peak	1.35	155	
1672	21.95	H	54	-32.05	Avg	1.35	155	
2090	37.64	H	80.28	-42.64	Peak	1.25	155	
2090	20.16	H	60.28	-40.12	Avg	1.25	155	
2508	43.21	H	80.28	-37.07	Peak	1.25	165	
2508	25.73	H	60.28	-34.55	Avg	1.25	165	
2926	42.65	H	80.28	-37.63	Peak	1.25	175	
2926	25.17	H	60.28	-35.11	Avg	1.25	175	
3344	38.27	H	80.28	-42.01	Peak	1.25	185	
3344	21.58	H	60.28	-38.7	Avg	1.25	185	
3762	38.73	H	74	-35.27	Peak	1.35	145	
3762	21.25	H	54	-32.75	Avg	1.35	145	
4180	43.9	H	74	-30.1	Peak	1.25	155	
4180	26.42	H	54	-27.58	Avg	1.25	155	

FCC Class B and FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/06/2012
Labs: B and D
Tested By: David Tran

Receiver, Digital Portion, and Non-Harmonic Emissions from the EUT – 1 GHz to 4.18 GHz
Vertical and Horizontal Polarizations - Raydome Antenna - Long Cable

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1375	40.84	V	54	-13.16	Peak	1.25	130	Receive Mode
1598	41.52	V	54	-12.48	Peak	1.55	145	Receive Mode
1641	39.64	V	54	-14.36	Peak	1.55	165	Receive Mode
3283	46.38	V	54	-7.62	Peak	2.35	180	Receive Mode
1125	39.82	H	54	-14.18	Peak	1.15	180	Receive Mode
1375	41.58	H	54	-12.42	Peak	1.35	170	Receive Mode
3000	44.53	H	54	-9.47	Peak	1.25	45	Receive Mode
1198	46.21	H	54	-7.79	Peak	1.35	130	Transmit Mode
1375	40.58	H	54	-13.42	Peak	2.35	160	Transmit Mode
1625	38.59	H	54	-15.41	Peak	2.55	170	Transmit Mode
3283	46.58	H	54	-7.42	Peak	2.25	190	Transmit Mode
1375	40.38	V	54	-13.62	Peak	1.25	200	Transmit Mode
2493	44.57	V	54	-9.43	Peak	1.45	90	Transmit Mode

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/28/2012
Lab: D
Tested By: Kyle Fujimoto

X-Axis - Monopole Antenna with 12 Foot RG-58 Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	93.66	V	100.28	-6.62	Peak	1	135	
418	76.18	V	80.28	-4.1	Avg	1	135	
836	61.32	V	80.28	-18.96	Peak	1	135	
836	43.84	V	60.28	-16.44	Avg	1	135	
1254	39.69	V	74	-34.31	Peak	1.25	135	
1254	22.21	V	54	-31.79	Avg	1.25	135	
1672	45.71	V	74	-28.29	Peak	1.25	165	
1672	28.23	V	54	-25.77	Avg	1.25	165	
2090	47.01	V	80.28	-33.27	Peak	1.25	155	
2090	29.53	V	60.28	-30.75	Avg	1.25	155	
2508	46.69	V	80.28	-33.59	Peak	1.25	155	
2508	29.21	V	60.28	-31.07	Avg	1.25	155	
2926	46.59	V	80.28	-33.69	Peak	1.35	165	
2926	29.11	V	60.28	-31.17	Avg	1.35	165	
3344	43.62	V	80.28	-36.66	Peak	1.25	175	
3344	26.14	V	60.28	-34.14	Avg	1.25	175	
3762	44.48	V	74	-29.52	Peak	1.25	185	
3762	27	V	54	-27	Avg	1.25	185	
4180	45.84	V	74	-28.16	Peak	1.35	195	
4180	28.36	V	54	-25.64	Avg	1.35	195	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/28/2012
Lab: D
Tested By: Kyle Fujimoto

X-Axis - Monopole Antenna with 12 Foot RG-58 Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	93.86	H	100.28	-6.42	Peak	1	180	
418	76.38	H	80.28	-3.9	Avg	1	180	
836	54.72	H	80.28	-25.56	Peak	1	180	
836	37.24	H	60.28	-23.04	Avg	1	180	
1254	41.25	H	74	-32.75	Peak	1.25	155	
1254	23.77	H	54	-30.23	Avg	1.25	155	
1672	43.09	H	74	-30.91	Peak	1.25	165	
1672	25.61	H	54	-28.39	Avg	1.25	165	
2090	43.47	H	80.28	-36.81	Peak	1.35	175	
2090	25.99	H	60.28	-34.29	Avg	1.35	175	
2508	45.41	H	80.28	-34.87	Peak	1.25	185	
2508	27.93	H	60.28	-32.35	Avg	1.25	185	
2926	45.41	H	80.28	-34.87	Peak	1.25	195	
2926	27.93	H	60.28	-32.35	Avg	1.25	195	
3344	43.61	H	80.28	-36.67	Peak	1.35	155	
3344	26.13	H	60.28	-34.15	Avg	1.35	155	
3762	44.74	H	74	-29.26	Peak	1.25	165	
3762	27.26	H	54	-26.74	Avg	1.25	165	
4180	44.99	H	74	-29.01	Peak	1.25	165	
4180	27.51	H	54	-26.49	Avg	1.25	165	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/28/2012
Lab: D
Tested By: Kyle Fujimoto

Y-Axis - Monopole Antenna with 12 Foot RG-58 Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	94.86	V	100.28	-5.42	Peak	1	180	
418	77.38	V	80.28	-2.9	Avg	1	180	
836	51.92	V	80.28	-28.36	Peak	1	180	
836	34.44	V	60.28	-25.84	Avg	1	180	
1254	41.81	V	74	-32.19	Peak	1.25	135	
1254	24.33	V	54	-29.67	Avg	1.25	135	
1672	48.56	V	74	-25.44	Peak	1.25	135	
1672	31.08	V	54	-22.92	Avg	1.25	135	
2090	48.76	V	80.28	-31.52	Peak	1.35	155	
2090	31.28	V	60.28	-29	Avg	1.35	155	
2508	48.27	V	80.28	-32.01	Peak	1.25	155	
2508	30.79	V	60.28	-29.49	Avg	1.25	155	
2926	47.72	V	80.28	-32.56	Peak	1.25	165	
2926	30.24	V	60.28	-30.04	Avg	1.25	165	
3344	43.88	V	80.28	-36.4	Peak	1.25	155	
3344	26.4	V	60.28	-33.88	Avg	1.25	155	
3762	44.43	V	74	-29.57	Peak	1.35	165	
3762	26.95	V	54	-27.05	Avg	1.35	165	
4180	45.28	V	74	-28.72	Peak	1.25	135	
4180	27.8	V	54	-26.2	Avg	1.25	135	

FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/28/2012
Lab: D
Tested By: Kyle Fujimoto

Y-Axis - Monopole Antenna with 12 Foot RG-58 Cable
Duty Cycle: 13.36%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	93.46	H	100.28	-6.82	Peak	1	180	
418	75.98	H	80.28	-4.3	Avg	1	180	
836	64.02	H	80.28	-16.26	Peak	1	180	
836	46.54	H	60.28	-13.74	Avg	1	180	
1254	41.68	H	74	-32.32	Peak	1.25	135	
1254	24.2	H	54	-29.8	Avg	1.25	135	
1672	44.56	H	74	-29.44	Peak	1.25	155	
1672	27.08	H	54	-26.92	Avg	1.25	155	
2090	46.19	H	80.28	-34.09	Peak	1.55	165	
2090	28.71	H	60.28	-31.57	Avg	1.55	165	
2508	44.85	H	80.28	-35.43	Peak	1.25	175	
2508	27.37	H	60.28	-32.91	Avg	1.25	175	
2926	44.01	H	80.28	-36.27	Peak	1.35	185	
2926	26.53	H	60.28	-33.75	Avg	1.35	185	
3344	43.37	H	80.28	-36.91	Peak	1.25	195	
3344	25.89	H	60.28	-34.39	Avg	1.25	195	
3762	45.85	H	74	-28.15	Peak	1.35	205	
3762	28.37	H	54	-25.63	Avg	1.35	205	
4180	44.42	H	74	-29.58	Peak	1.25	135	
4180	26.94	H	54	-27.06	Avg	1.25	135	

FCC Class B and FCC 15.231

All Clear System, LLC
All Clear Radio Box
Model: 892439

Date: 02/28/2012
Labs: B and D
Tested By: Kyle Fujimoto

X-Axis (Worst Case)

Digital Portion and Non-Harmonic Emissions from the Transmitter – 1 GHz to 4.18 GHz

Vertical and Horizontal Polarizations – Monopole Ant.

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1375	40.2	V	54	-13.8	Peak	1.25	130	Receive Mode
1598	13.58	V	54	-40.42	Peak	1.5	130	Receive Mode
1641	36.21	V	54	-17.79	Peak	1.5	170	Receive Mode
3283	42.5	V	54	-11.5	Peak	2.3	180	Receive Mode
1125	36.28	H	54	-17.72	Peak	1.1	180	Receive Mode
1375	38.41	H	54	-15.59	Peak	1.3	170	Receive Mode
3000	42.69	H	54	-11.31	Peak	1.2	20	Receive Mode
1198	44.55	H	54	-9.45	Peak	1.3	130	Transmit Mode
1375	41.26	H	54	-12.74	Peak	2.3	160	Transmit Mode
1625	38.58	H	54	-15.42	Peak	2.5	170	Transmit Mode
3283	45.26	H	54	-8.74	Peak	2.2	190	Transmit Mode
1375	40.25	V	54	-13.75	Peak	1.2	200	Transmit Mode
2493	44.25	V	54	-9.75	Peak	1.4	80	Transmit Mode

Test Location : Compatible Electronics
Customer : All Clear System, LLC
Manufacturer : All Clear System, LLC
Eut name : All Clear Radio Box
Model : 892439
Serial # : N/A
Specification : FCC Class B
Page : 1/2
Date : 2/01/2012
Time : 15:57:32
Lab : D
Test Distance : 3.0
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Short Cable
Tx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	47.138	53.80	0.83	11.51	38.56	27.58	40.00	-12.42
2H	60.005	59.60	0.90	9.80	38.54	31.76	40.00	-8.24
3V	60.019	58.30	0.90	9.79	38.54	30.45	40.00	-9.55
4H	72.006	59.30	1.12	6.72	38.54	28.61	40.00	-11.39
5V	75.095	50.30	1.15	6.32	38.54	19.23	40.00	-20.77
6V	80.140	59.70	1.20	5.72	38.54	28.08	40.00	-11.92
7H	84.067	54.50	1.24	6.25	38.54	23.45	40.00	-16.55
8H	108.123	52.10	1.23	10.61	38.52	25.43	43.50	-18.07
9H	110.788	54.60	1.25	10.96	38.52	28.29	43.50	-15.21
10V	112.000	50.80	1.25	11.12	38.52	24.65	43.50	-18.85
11H	118.671	55.10	1.28	11.94	38.51	29.80	43.50	-13.70
12V	140.250	49.90	1.49	11.41	38.46	24.34	43.50	-19.16
13V	243.570	44.50	2.05	16.11	38.54	24.12	46.00	-21.88
14H	247.092	46.90	2.08	16.11	38.56	26.53	46.00	-19.47
15H	311.969	52.50	2.25	13.77	38.46	30.07	46.00	-15.93
16V	312.645	61.80	2.25	13.79	38.46	39.39	46.00	-6.61
17V	336.665	59.10	2.35	14.30	38.46	37.29	46.00	-8.71
18H	336.682	59.70	2.35	14.30	38.46	37.89	46.00	-8.11
19V	360.735	58.20	2.45	14.78	38.45	36.98	46.00	-9.02
20H	384.041	55.40	2.54	15.22	38.39	34.76	46.00	-11.24
21V	384.768Qp	63.33	2.54	15.23	38.39	42.71	46.00	-3.29
22V	384.768	63.80	2.54	15.23	38.39	43.18	46.00	-2.82
23H	384.777	57.60	2.54	15.23	38.39	36.98	46.00	-9.02
24V	408.833	65.00	2.60	15.53	38.31	44.82	46.00	-1.18
25V	408.833Qp	64.62	2.60	15.53	38.31	44.44	46.00	-1.56
26V	408.852	65.30	2.60	15.53	38.31	45.12	46.00	-0.88
27V	408.852Qp	64.59	2.60	15.53	38.31	44.41	46.00	-1.59
28H	408.869	59.40	2.60	15.53	38.31	39.22	46.00	-6.78
29H	431.994	46.50	2.60	15.60	38.17	26.53	46.00	-19.47
30H	432.862	55.10	2.60	15.61	38.17	35.14	46.00	-10.86
31V	432.882Qp	63.00	2.60	15.61	38.17	43.04	46.00	-2.96
32V	432.882	64.80	2.60	15.61	38.17	44.84	46.00	-1.16
33H	432.894	57.20	2.60	15.61	38.17	37.24	46.00	-8.76
34V	474.450	49.30	2.70	15.73	38.19	29.54	46.00	-16.46
35V	485.580	55.20	2.74	15.76	38.24	35.46	46.00	-10.54

Test Location : Compatible Electronics **Page** : 2/2
Customer : All Clear System, LLC **Date** : 2/01/2012
Manufacturer : All Clear System, LLC **Time** : 15:57:32
Eut name : All Clear Radio Box **Lab** : D
Model : 892439 **Test Distance** : 3.0
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Short Cable
Tx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
36V	497.450	51.40	2.79	15.79	38.30	31.69	46.00	-14.31
37H	528.135	42.80	2.86	17.12	38.34	24.43	46.00	-21.57

Test Location : Compatible Electronics **Page** : 1/1
Customer : All Clear System, LLC **Date** : 2/03/2012
Manufacturer : All Clear System, LLC **Time** : 13:07:28
Eut name : All Clear Radio Box **Lab** : D
Model : 892439 **Test Distance** : 3.0
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Short Cable
Rx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	59.994	56.10	0.90	9.80	38.54	28.26	40.00	-11.74
2H	71.969	53.10	1.12	6.73	38.54	22.41	40.00	-17.59
3V	76.160	61.40	1.16	6.18	38.54	30.20	40.00	-9.80
4V	81.680	60.60	1.22	5.93	38.54	29.21	40.00	-10.79
5V	110.488	43.80	1.24	10.92	38.52	17.45	43.50	-26.05
6H	114.516	50.40	1.26	11.43	38.52	24.58	43.50	-18.92
7V	122.937	50.20	1.29	11.99	38.51	24.97	43.50	-18.53
8V	141.840	45.50	1.51	11.50	38.45	20.05	43.50	-23.45
9V	143.272	48.00	1.52	11.57	38.45	22.65	43.50	-20.85
10H	312.646	61.60	2.25	13.79	38.46	39.19	46.00	-6.81
11H	336.694	63.30	2.35	14.30	38.46	41.49	46.00	-4.51
12V	336.696	63.50	2.35	14.30	38.46	41.69	46.00	-4.31
13V	360.745	59.90	2.45	14.78	38.45	38.68	46.00	-7.32
14V	384.797	63.50	2.54	15.23	38.39	42.88	46.00	-3.12
15H	384.802	58.30	2.54	15.23	38.39	37.68	46.00	-8.32
16H	408.863	50.60	2.60	15.53	38.31	30.42	46.00	-15.58
17V	408.866	60.90	2.60	15.53	38.31	40.72	46.00	-5.28
18H	432.913	42.90	2.60	15.61	38.17	22.94	46.00	-23.06
19V	432.931	58.10	2.60	15.61	38.17	38.14	46.00	-7.86
20H	456.946	47.10	2.63	15.68	38.10	27.30	46.00	-18.70
21V	457.027	52.10	2.63	15.68	38.11	32.30	46.00	-13.70
22H	481.006	45.60	2.73	15.75	38.22	25.85	46.00	-20.15
23V	481.027	51.20	2.73	15.75	38.22	31.45	46.00	-14.55
24V	529.152	42.80	2.86	17.17	38.35	24.48	46.00	-21.52

Test Location : Compatible Electronics
Customer : All Clear System, LLC
Manufacturer : All Clear System, LLC
Eut name : All Clear Radio Box
Model : 892439
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Long Cable
Tx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Page : 1/2
Date : 2/02/2012
Time : 8:57:16
Lab : D
Test Distance : 3.0

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	46.507	56.70	0.83	11.54	38.56	30.51	40.00	-9.49
2V	47.997	60.00	0.82	11.48	38.56	33.73	40.00	-6.27
3H	48.120	48.80	0.82	11.47	38.56	22.53	40.00	-17.47
4H	59.993	56.70	0.90	9.80	38.54	28.86	40.00	-11.14
5H	66.244	50.30	1.03	8.00	38.54	20.79	40.00	-19.21
6V	72.000	63.80	1.12	6.73	38.54	33.11	40.00	-6.89
7H	74.705	53.50	1.15	6.37	38.54	22.48	40.00	-17.52
8V	75.012	58.50	1.15	6.33	38.54	27.44	40.00	-12.56
9H	84.032	56.90	1.24	6.24	38.54	25.84	40.00	-14.16
10V	110.760	56.10	1.25	10.96	38.52	29.78	43.50	-13.72
11H	112.154	51.30	1.25	11.14	38.52	25.17	43.50	-18.33
12H	128.043	44.90	1.34	11.81	38.50	19.55	43.50	-23.95
13V	167.974	45.00	1.67	13.76	38.53	21.91	43.50	-21.59
14V	172.432	51.10	1.69	14.50	38.55	28.74	43.50	-14.76
15H	182.443	36.10	1.70	15.76	38.54	15.02	43.50	-28.48
16H	249.742	40.00	2.10	16.10	38.57	19.63	46.00	-26.37
17H	312.628	62.60	2.25	13.79	38.46	40.18	46.00	-5.82
18V	312.642	59.40	2.25	13.79	38.46	36.99	46.00	-9.01
19H	336.680	63.70	2.35	14.30	38.46	41.89	46.00	-4.11
20V	336.689	58.70	2.35	14.30	38.46	36.89	46.00	-9.11
21H	360.746	55.60	2.45	14.78	38.45	34.38	46.00	-11.62
22H	384.770	56.40	2.54	15.23	38.39	35.78	46.00	-10.22
23V	384.792	63.50	2.54	15.23	38.39	42.88	46.00	-3.12
24V	396.864	49.70	2.59	15.45	38.37	29.37	46.00	-16.63
25V	408.853	62.30	2.60	15.53	38.31	42.12	46.00	-3.88
26H	408.854	59.00	2.60	15.53	38.31	38.82	46.00	-7.18
27H	432.854	51.40	2.60	15.61	38.17	31.44	46.00	-14.56
28V	432.919	60.30	2.60	15.61	38.17	40.34	46.00	-5.66
29H	456.943	49.80	2.63	15.68	38.10	30.00	46.00	-16.00
30V	456.961	55.10	2.63	15.68	38.10	35.30	46.00	-10.70
31V	462.561	48.50	2.65	15.70	38.13	28.71	46.00	-17.29
32V	474.450	50.40	2.70	15.73	38.19	30.64	46.00	-15.36
33H	480.943	44.80	2.73	15.75	38.22	25.05	46.00	-20.95
34V	486.450	56.50	2.75	15.76	38.25	36.76	46.00	-9.24
35H	486.585	54.70	2.75	15.76	38.25	34.96	46.00	-11.04

Test Location : Compatible Electronics **Page** : 2/2
Customer : All Clear System, LLC **Date** : 2/02/2012
Manufacturer : All Clear System, LLC **Time** : 8:57:16
Eut name : All Clear Radio Box **Lab** : D
Model : 892439 **Test Distance** : 3.0
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Long Cable
Tx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
36V	497.450	54.10	2.79	15.79	38.30	34.39	46.00	-11.61
37V	528.104	42.20	2.86	17.12	38.34	23.83	46.00	-22.17

Test Location : Compatible Electronics
Customer : All Clear System, LLC
Manufacturer : All Clear System, LLC
Eut name : All Clear Radio Box
Model : 892439
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Long Cable
Rx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Page : 1/2
Date : 2/02/2012
Time : 10:31:14
Lab : D
Test Distance : 3.0

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	60.000	63.30	0.90	9.80	38.54	35.46	40.00	-4.54
2H	60.008	66.50	0.90	9.80	38.54	38.66	40.00	-1.34
3H	60.008Qp	61.34	0.90	9.80	38.54	33.50	40.00	-6.50
4V	72.013	67.90	1.12	6.72	38.54	37.21	40.00	-2.79
5V	72.014Qp	61.24	1.12	6.72	38.54	30.55	40.00	-9.45
6H	72.017	71.80	1.12	6.72	38.54	41.10	40.00	1.10
7H	72.017Qp	65.08	1.12	6.72	38.54	34.38	40.00	-5.62
8H	83.994	64.40	1.24	6.24	38.54	33.34	40.00	-6.66
9H	110.761	65.40	1.25	10.96	38.52	39.08	43.50	-4.42
10V	110.812	52.80	1.25	10.96	38.52	26.49	43.50	-17.01
11H	118.679	59.10	1.28	11.94	38.51	33.80	43.50	-9.70
12V	118.684	52.10	1.28	11.94	38.51	26.80	43.50	-16.70
13V	122.871	53.50	1.29	11.99	38.51	28.27	43.50	-15.23
14H	126.574	50.50	1.32	11.86	38.50	25.17	43.50	-18.33
15V	135.125	38.90	1.43	11.56	38.48	13.41	43.50	-30.09
16H	137.773	52.40	1.46	11.47	38.47	26.87	43.50	-16.63
17H	147.194	58.00	1.57	11.78	38.44	32.91	43.50	-10.59
18H	156.000	53.50	1.63	12.21	38.46	28.87	43.50	-14.63
19H	168.000	53.10	1.67	13.77	38.53	30.01	43.50	-13.49
20V	312.660	57.90	2.25	13.79	38.46	35.49	46.00	-10.51
21H	312.660	57.90	2.25	13.79	38.46	35.49	46.00	-10.51
22V	336.688	59.00	2.35	14.30	38.46	37.19	46.00	-8.81
23H	336.718	59.80	2.35	14.30	38.46	37.99	46.00	-8.01
24V	360.757	59.80	2.45	14.78	38.45	38.58	46.00	-7.42
25H	384.786	62.10	2.54	15.23	38.39	41.48	46.00	-4.52
26V	384.788Qp	64.17	2.54	15.23	38.39	43.55	46.00	-2.45
27V	384.788	64.70	2.54	15.23	38.39	44.08	46.00	-1.92
28V	396.858	51.90	2.59	15.45	38.37	31.57	46.00	-14.43
29V	408.862	61.10	2.60	15.53	38.31	40.92	46.00	-5.08
30H	432.898	50.80	2.60	15.61	38.17	30.84	46.00	-15.16
31V	432.913	59.50	2.60	15.61	38.17	39.54	46.00	-6.46
32V	456.974	56.00	2.63	15.68	38.11	36.20	46.00	-9.80
33V	462.048	58.40	2.65	15.69	38.13	38.61	46.00	-7.39
34V	473.978	61.00	2.70	15.73	38.19	41.24	46.00	-4.76
35V	485.993	65.50	2.75	15.76	38.25	45.76	46.00	-0.24

Test Location : Compatible Electronics **Page** : 2/2
Customer : All Clear System, LLC **Date** : 2/02/2012
Manufacturer : All Clear System, LLC **Time** : 10:31:14
Eut name : All Clear Radio Box **Lab** : D
Model : 892439 **Test Distance** : 3.0
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Raydome Antenna - Long Cable
Rx Mode - Y-Axis (Worst Case)
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
36V	485.994Qp	56.95	2.75	15.76	38.25	37.21	46.00	-8.79
37V	497.998	63.10	2.79	15.79	38.30	43.39	46.00	-2.61
38V	497.998Qp	53.88	2.79	15.79	38.30	34.17	46.00	-11.83
39V	505.058	47.50	2.81	16.04	38.32	28.04	46.00	-17.96

Test Location : Compatible Electronics **Page** : 1/1
Customer : All Clear System, LLC **Date** : 2/28/2012
Manufacturer : All Clear System, LLC **Time** : 14:18:17
Eut name : All Clear Radio Box **Lab** : D
Model : 892439 **Test Distance** : 3.0
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Monopole Antenna
Tx Mode - X-Axis - Worst Case
Tested By: Kyle Fujimoto

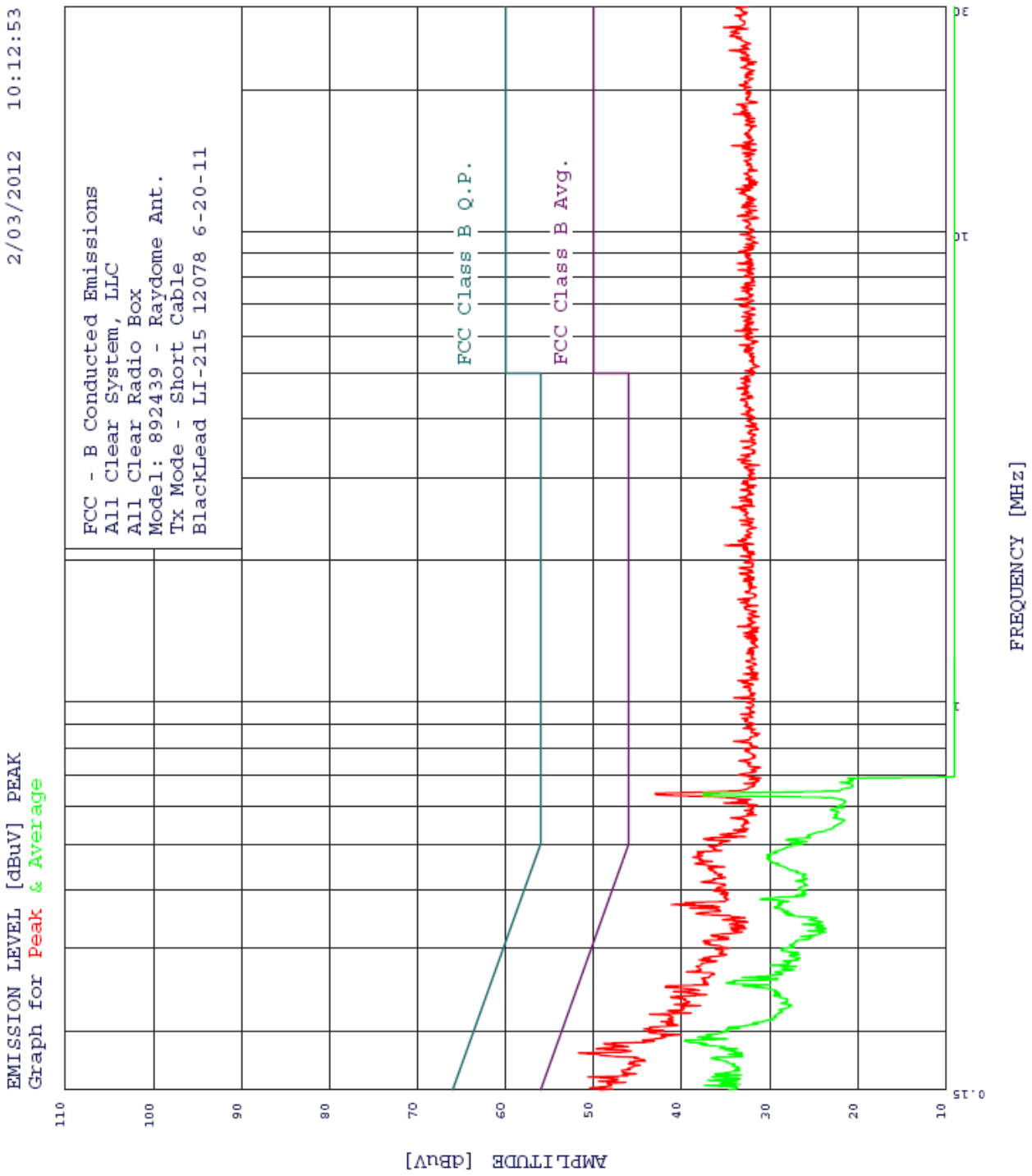
Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	76.280	51.80	1.16	6.16	38.54	20.59	40.00	-19.41
2H	123.260	50.20	1.29	11.98	38.51	24.96	43.50	-18.54
3V	124.180	58.30	1.30	11.94	38.51	33.03	43.50	-10.47
4V	223.800	45.30	1.89	16.15	38.46	24.88	46.00	-21.12
5H	232.280	60.70	1.96	16.13	38.49	40.30	46.00	-5.70
6H	384.799	63.50	2.54	15.23	38.39	42.88	46.00	-3.12
7V	384.836	58.90	2.54	15.23	38.39	38.28	46.00	-7.72
8V	432.877	56.20	2.60	15.61	38.17	36.24	46.00	-9.76
9H	432.910	52.40	2.60	15.61	38.17	32.44	46.00	-13.56
10V	480.973	48.80	2.73	15.75	38.22	29.05	46.00	-16.95
11H	507.415	49.60	2.82	16.16	38.32	30.25	46.00	-15.75
12V	527.969	45.50	2.86	17.11	38.34	27.13	46.00	-18.87

Test Location : Compatible Electronics
Customer : All Clear System, LLC
Manufacturer : All Clear System, LLC
Eut name : All Clear Radio Box
Model : 892439
Serial # : N/A
Specification : FCC Class B
Page : 1/1
Date : 2/28/2012
Time : 13:41:10
Lab : D
Test Distance : 3.0
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Radiated Emissions - 10 kHz to 1 GHz
Monopole Antenna
Rx Mode - X-Axis - Worst Case
Tested By: Kyle Fujimoto

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1H	68.700	60.10	1.08	7.34	38.54	29.98	40.00	-10.02
2V	110.766	62.40	1.25	10.96	38.52	36.08	43.50	-7.42
3V	130.110	46.90	1.37	11.73	38.49	21.51	43.50	-21.99
4V	166.110	51.10	1.67	13.45	38.52	27.70	43.50	-15.80
5H	311.200	44.90	2.25	13.75	38.45	22.45	46.00	-23.55
6V	360.700	49.10	2.45	14.78	38.45	27.88	46.00	-18.12
7H	360.761	58.20	2.45	14.78	38.45	36.98	46.00	-9.02
8H	384.797	63.60	2.54	15.23	38.39	42.98	46.00	-3.02
9V	384.820	60.30	2.54	15.23	38.39	39.68	46.00	-6.32
10H	408.850	60.30	2.60	15.53	38.31	40.12	46.00	-5.88
11H	420.977	51.60	2.60	15.57	38.23	31.53	46.00	-14.47
12H	432.909	53.30	2.60	15.61	38.17	33.34	46.00	-12.66
13V	432.914	59.50	2.60	15.61	38.17	39.54	46.00	-6.46
14V	444.910	47.50	2.60	15.64	38.10	27.65	46.00	-18.35
15V	480.981	47.20	2.73	15.75	38.22	27.45	46.00	-18.55
16V	784.281	35.30	3.70	20.57	37.92	21.65	46.00	-24.35

CONDUCTED EMISSIONS

DATA SHEETS


2/03/2012 10:12:53
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/03/2012 10:12:53

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.180	51.72	54.50	-2.78**
2	0.637	43.01	46.00	-2.99**
3	0.183	49.72	54.33	-4.61**
4	0.160	50.62	55.47	-4.85**
5	0.188	48.82	54.10	-5.28**
6	0.152	50.42	55.91	-5.49**
7	0.157	49.42	55.64	-6.22**
8	0.371	41.18	48.47	-7.30**
9	0.469	38.71	46.53	-7.83**
10	0.454	38.50	46.80	-8.30**
11	0.165	46.82	55.20	-8.38**
12	0.513	37.51	46.00	-8.49**
13	0.375	39.58	48.38	-8.80**
14	0.170	46.02	54.94	-8.92**
15	0.494	36.91	46.09	-9.19**
16	0.202	44.33	53.53	-9.21**
17	0.217	43.63	52.91	-9.29**
18	0.365	39.07	48.61	-9.53**
19	0.192	44.42	53.97	-9.55**
20	0.415	37.80	47.55	-9.75**
21	0.200	43.82	53.62	-9.80**
22	0.445	37.00	46.98	-9.97**
23	0.248	41.84	51.82	-9.98**
24	0.524	35.61	46.00	-10.39**
25	0.356	38.37	48.82	-10.46**
26	0.611	35.21	46.00	-10.79**
27	2.156	35.11	46.00	-10.89
28	0.210	42.33	53.23	-10.90**
29	0.237	41.23	52.21	-10.98**
30	0.243	40.94	52.00	-11.06**
31	0.221	41.63	52.78	-11.15**
32	0.398	36.39	47.90	-11.51**
33	0.567	34.41	46.00	-11.59**
34	2.596	34.32	46.00	-11.68
35	0.228	40.83	52.52	-11.69**
36	0.402	36.10	47.81	-11.72**
37	0.267	39.44	51.20	-11.76**
38	0.535	34.11	46.00	-11.89**
39	0.826	34.10	46.00	-11.90
40	1.021	34.10	46.00	-11.90
41	4.648	33.69	46.00	-12.31
42	3.277	33.64	46.00	-12.36
43	0.618	33.61	46.00	-12.39**
44	2.201	33.61	46.00	-12.39
45	1.112	33.60	46.00	-12.40
46	1.449	33.60	46.00	-12.40
47	1.654	33.60	46.00	-12.40
48	0.310	37.55	49.97	-12.41**

*Please See the Average Readings on the Next Page and on the Plot

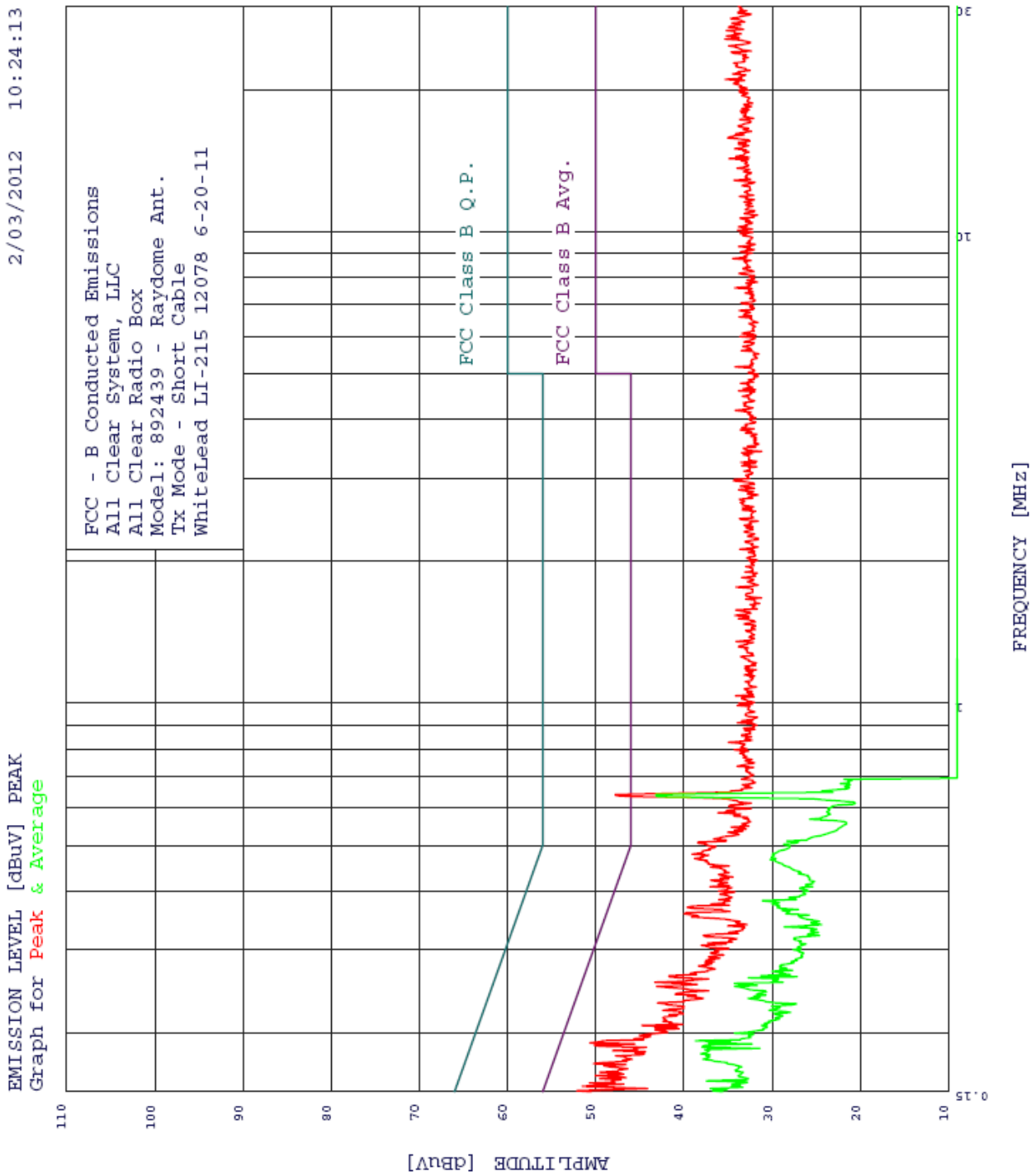
page 1/1

2/03/2012 10:12:53

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	37.57	46.00	-8.43
2	0.192	39.64	53.97	-14.33
3	0.195	38.15	53.84	-15.69
4	0.474	30.30	46.45	-16.15
5	0.187	37.90	54.15	-16.25
6	0.466	30.32	46.58	-16.25
7	0.461	30.06	46.67	-16.60
8	0.197	37.14	53.75	-16.61
9	0.254	34.96	51.64	-16.68
10	0.481	29.54	46.32	-16.78
11	0.457	29.80	46.76	-16.95
12	0.381	31.11	48.25	-17.14
13	0.256	34.15	51.55	-17.40
14	0.452	29.21	46.85	-17.63
15	0.510	28.16	46.00	-17.84
16	0.175	36.63	54.72	-18.09
17	0.260	33.15	51.42	-18.27
18	0.502	27.70	46.00	-18.30
19	0.153	37.38	55.82	-18.44
20	0.157	37.07	55.60	-18.53
21	0.202	35.00	53.53	-18.54
22	0.184	35.62	54.28	-18.66
23	0.204	34.72	53.44	-18.73
24	0.250	33.04	51.77	-18.73
25	0.160	36.54	55.47	-18.93
26	0.367	29.46	48.56	-19.10
27	0.162	36.21	55.34	-19.13
28	0.183	35.12	54.37	-19.25
29	0.375	29.05	48.38	-19.33
30	0.371	29.08	48.47	-19.40
31	0.179	34.68	54.54	-19.86
32	0.171	34.82	54.90	-20.08
33	0.362	28.59	48.69	-20.10
34	0.435	27.03	47.15	-20.12
35	0.155	35.59	55.73	-20.14
36	0.521	25.70	46.00	-20.30
37	0.358	28.44	48.78	-20.34
38	0.417	27.07	47.50	-20.44
39	0.354	28.16	48.87	-20.71
40	0.169	34.27	55.03	-20.76
41	0.426	26.31	47.33	-21.02
42	0.389	27.02	48.08	-21.06
43	0.276	29.87	50.94	-21.06
44	0.402	26.75	47.81	-21.07
45	0.166	33.93	55.16	-21.23
46	0.208	31.88	53.27	-21.39
47	0.299	28.68	50.28	-21.60
48	0.393	26.30	47.99	-21.69


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
2/03/2012 10:24:13
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/03/2012 10:24:13

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.641	47.77	46.00	1.77**
2	0.190	50.66	54.01	-3.36**
3	0.151	52.10	55.95	-3.85**
4	0.188	50.16	54.10	-3.95**
5	0.154	51.51	55.78	-4.26**
6	0.172	50.26	54.86	-4.60**
7	0.157	50.72	55.64	-4.92**
8	0.162	50.04	55.34	-5.30**
9	0.165	49.54	55.20	-5.66**
10	0.170	49.06	54.94	-5.88**
11	0.160	49.53	55.47	-5.94**
12	0.183	48.06	54.33	-6.27**
13	0.179	47.76	54.54	-6.79**
14	0.479	39.08	46.36	-7.28**
15	0.508	38.41	46.00	-7.59**
16	0.469	38.78	46.53	-7.76**
17	0.195	45.66	53.84	-8.18**
18	0.256	43.29	51.55	-8.27**
19	0.207	44.76	53.31	-8.55**
20	0.251	43.10	51.73	-8.63**
21	0.198	45.06	53.71	-8.66**
22	0.358	39.92	48.78	-8.86**
23	0.182	45.56	54.41	-8.86**
24	0.369	39.62	48.52	-8.89**
25	0.516	36.61	46.00	-9.39**
26	0.232	42.98	52.39	-9.41**
27	0.263	41.67	51.33	-9.66**
28	0.586	36.16	46.00	-9.84**
29	0.449	36.96	46.89	-9.93**
30	0.205	43.26	53.40	-10.14**
31	0.203	43.26	53.49	-10.23**
32	0.223	42.37	52.70	-10.32**
33	0.421	36.94	47.42	-10.48**
34	0.215	42.37	53.00	-10.64**
35	0.409	37.03	47.68	-10.65**
36	0.592	35.16	46.00	-10.84**
37	0.532	35.02	46.00	-10.98**
38	0.826	34.95	46.00	-11.05
39	0.242	40.99	52.04	-11.05**
40	0.605	34.87	46.00	-11.13**
41	0.433	36.05	47.19	-11.14**
42	0.547	34.63	46.00	-11.37**
43	0.413	36.13	47.59	-11.46**
44	0.375	36.92	48.38	-11.46**
45	2.963	34.39	46.00	-11.61
46	0.796	34.26	46.00	-11.74
47	1.536	34.21	46.00	-11.79
48	0.400	36.02	47.86	-11.83**

*Please See the Average Readings on the Next Page and on the Plot

page 1/1

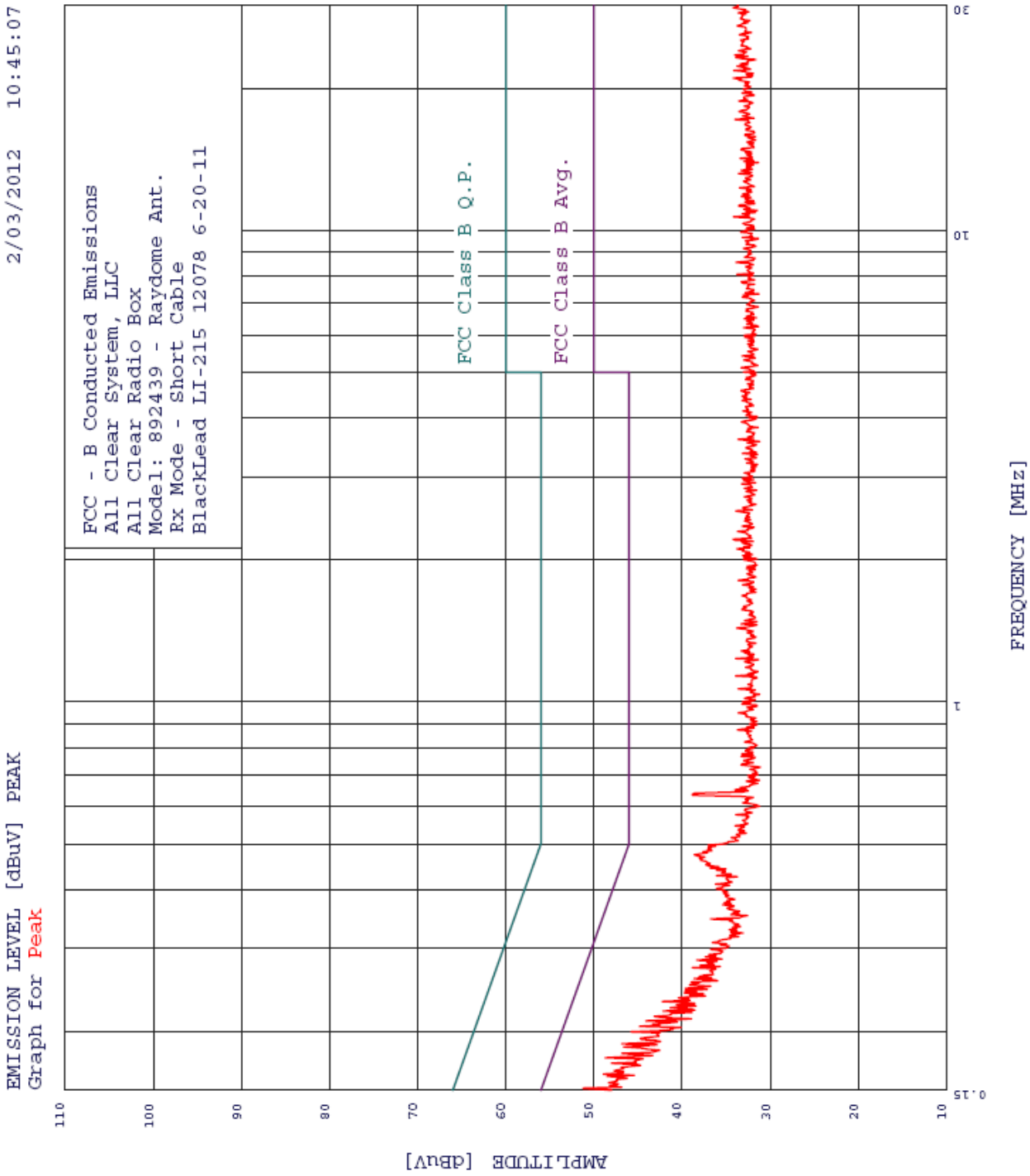
2/03/2012 10:24:13

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

---

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.641	43.18	46.00	-2.82
2	0.193	38.69	53.93	-15.24
3	0.186	37.93	54.19	-16.27
4	0.466	30.23	46.58	-16.34
5	0.181	38.09	54.46	-16.37
6	0.479	29.95	46.36	-16.41
7	0.471	30.04	46.49	-16.45
8	0.184	37.64	54.28	-16.65
9	0.190	37.22	54.01	-16.80
10	0.176	37.83	54.68	-16.85
11	0.179	37.49	54.54	-17.06
12	0.381	31.09	48.25	-17.16
13	0.502	28.68	46.00	-17.32
14	0.255	34.26	51.60	-17.34
15	0.251	34.25	51.73	-17.48
16	0.510	28.34	46.00	-17.66
17	0.158	37.46	55.56	-18.10
18	0.375	29.98	48.38	-18.40
19	0.262	32.70	51.38	-18.67
20	0.152	37.02	55.86	-18.85
21	0.369	29.41	48.52	-19.10
22	0.151	36.71	55.95	-19.24
23	0.200	34.25	53.62	-19.38
24	0.237	32.74	52.21	-19.47
25	0.172	35.11	54.86	-19.75
26	0.363	28.87	48.65	-19.78
27	0.265	31.28	51.29	-20.01
28	0.387	28.09	48.12	-20.02
29	0.239	32.09	52.12	-20.04
30	0.435	27.03	47.15	-20.12
31	0.242	31.77	52.04	-20.27
32	0.567	25.73	46.00	-20.27
33	0.358	28.41	48.78	-20.37
34	0.336	28.64	49.31	-20.67
35	0.406	26.83	47.72	-20.89
36	0.167	34.18	55.11	-20.94
37	0.270	30.02	51.11	-21.09
38	0.197	32.66	53.75	-21.10
39	0.156	34.55	55.69	-21.14
40	0.154	34.61	55.78	-21.16
41	0.391	26.82	48.03	-21.21
42	0.428	25.95	47.28	-21.34
43	0.413	26.19	47.59	-21.40
44	0.398	26.48	47.90	-21.42
45	0.162	33.86	55.34	-21.48
46	0.424	25.78	47.37	-21.59
47	0.258	29.91	51.51	-21.60
48	0.651	24.40	46.00	-21.60


2/03/2012 10:45:07
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Short Cable
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

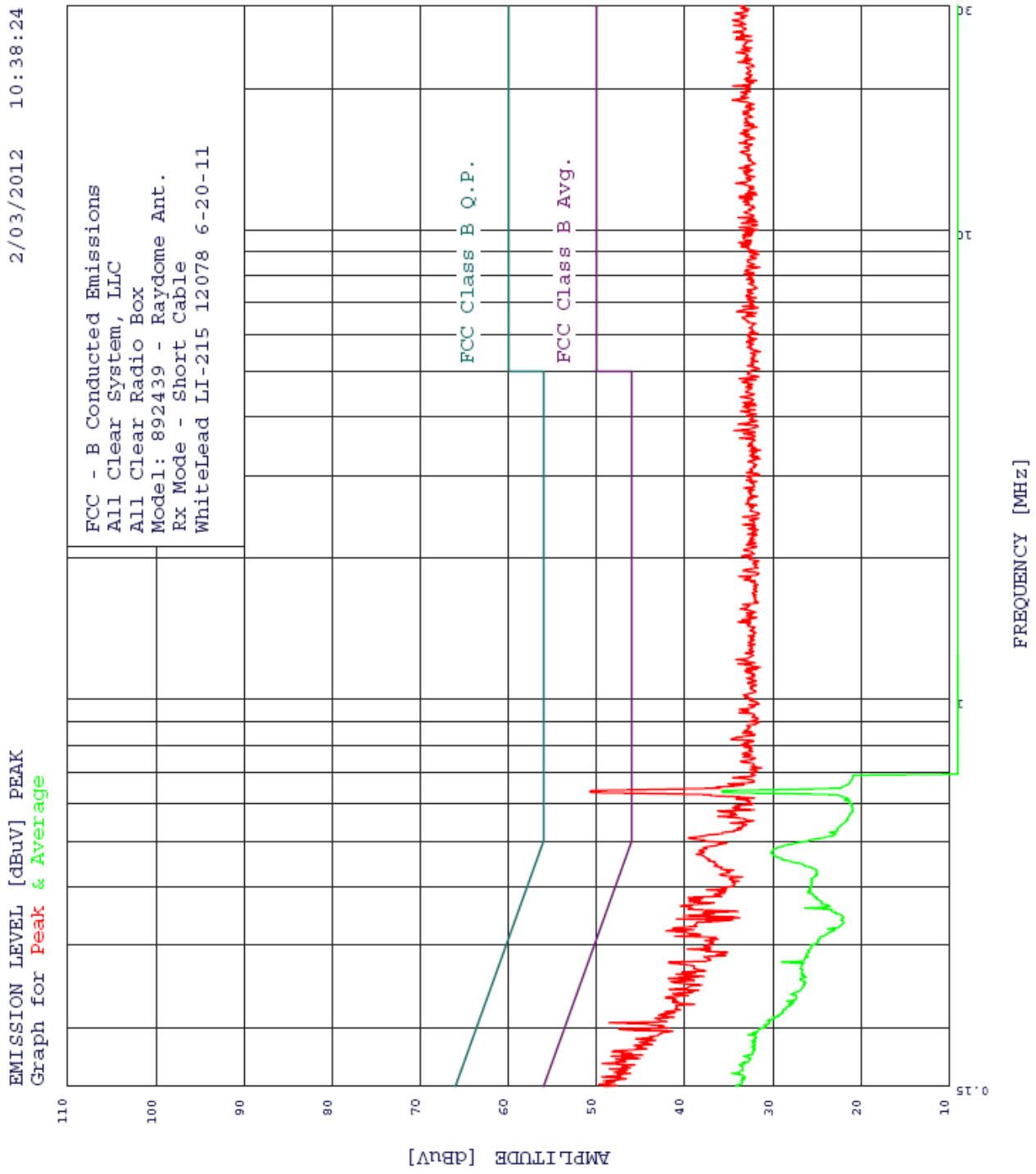
page 1/1

2/03/2012 10:45:07

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Short Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.152	51.22	55.91	-4.69
2	0.176	48.72	54.68	-5.96
3	0.162	48.92	55.34	-6.42
4	0.171	48.02	54.90	-6.88
5	0.161	48.52	55.43	-6.91
6	0.634	38.81	46.00	-7.19
7	0.188	46.82	54.10	-7.28
8	0.156	48.32	55.69	-7.37
9	0.165	47.72	55.20	-7.48
10	0.153	48.22	55.82	-7.60
11	0.185	46.62	54.24	-7.62
12	0.180	46.82	54.50	-7.68
13	0.474	38.61	46.45	-7.84
14	0.200	45.72	53.62	-7.90
15	0.205	44.83	53.40	-8.57
16	0.211	44.13	53.18	-9.05
17	0.194	44.72	53.88	-9.16
18	0.215	43.13	53.00	-9.88
19	0.232	42.23	52.39	-10.15
20	0.221	42.13	52.78	-10.65
21	0.440	36.10	47.06	-10.96
22	0.428	36.10	47.28	-11.18
23	0.224	41.33	52.65	-11.32
24	0.411	36.20	47.63	-11.44
25	0.402	36.10	47.81	-11.72
26	2.214	34.21	46.00	-11.79
27	0.235	40.43	52.25	-11.82
28	0.228	40.63	52.52	-11.89
29	0.547	34.01	46.00	-11.99
30	0.651	34.00	46.00	-12.00
31	2.540	33.92	46.00	-12.08
32	0.577	33.91	46.00	-12.09
33	1.136	33.90	46.00	-12.10
34	1.236	33.90	46.00	-12.10
35	0.273	38.84	51.02	-12.18
36	2.111	33.80	46.00	-12.20
37	1.434	33.80	46.00	-12.20
38	0.247	39.64	51.86	-12.22
39	0.347	36.76	49.04	-12.28
40	2.298	33.71	46.00	-12.29
41	0.872	33.70	46.00	-12.30
42	0.242	39.74	52.04	-12.30
43	0.244	39.64	51.95	-12.31
44	3.605	33.65	46.00	-12.35
45	0.283	38.35	50.72	-12.37
46	0.948	33.60	46.00	-12.40
47	1.066	33.60	46.00	-12.40
48	1.810	33.60	46.00	-12.40


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
2/03/2012 10:38:24
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/03/2012 10:38:24

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	50.77	46.00	4.77**
2	0.205	48.56	53.40	-4.84**
3	0.168	49.35	55.07	-5.72**
4	0.157	49.42	55.60	-6.18**
5	0.152	49.71	55.91	-6.20**
6	0.199	47.46	53.67	-6.21**
7	0.178	48.26	54.59	-6.33**
8	0.508	39.61	46.00	-6.39**
9	0.174	48.36	54.77	-6.41**
10	0.154	49.21	55.78	-6.56**
11	0.163	48.54	55.29	-6.75**
12	0.171	47.86	54.90	-7.04**
13	0.161	48.03	55.43	-7.40**
14	0.176	47.16	54.68	-7.52**
15	0.322	42.11	49.66	-7.55**
16	0.469	38.68	46.53	-7.86**
17	0.165	47.14	55.20	-8.06**
18	0.363	40.52	48.65	-8.13**
19	0.325	41.41	49.57	-8.16**
20	0.341	40.92	49.18	-8.26**
21	0.189	45.56	54.06	-8.50**
22	0.183	45.76	54.33	-8.57**
23	0.379	39.62	48.29	-8.67**
24	0.313	41.11	49.88	-8.77**
25	0.375	39.52	48.38	-8.86**
26	0.347	40.12	49.04	-8.92**
27	0.371	39.52	48.47	-8.95**
28	0.186	45.16	54.19	-9.04**
29	0.276	41.85	50.94	-9.09**
30	0.255	41.89	51.60	-9.71**
31	0.580	36.26	46.00	-9.74**
32	0.564	36.25	46.00	-9.75**
33	0.210	43.36	53.23	-9.86**
34	0.213	42.97	53.09	-10.13**
35	0.251	41.60	51.73	-10.13**
36	0.232	42.18	52.39	-10.21**
37	0.242	41.79	52.04	-10.25**
38	0.260	40.98	51.42	-10.45**
39	0.393	37.52	47.99	-10.47**
40	0.216	42.27	52.96	-10.69**
41	0.294	39.71	50.41	-10.70**
42	0.237	41.39	52.21	-10.82**
43	0.662	35.07	46.00	-10.93**
44	0.352	37.92	48.91	-10.99**
45	0.263	40.27	51.33	-11.06**
46	0.547	34.83	46.00	-11.17**
47	0.822	34.76	46.00	-11.24
48	0.424	36.04	47.37	-11.33**

*Please See the Average Readings on the Next Page and on the Plot

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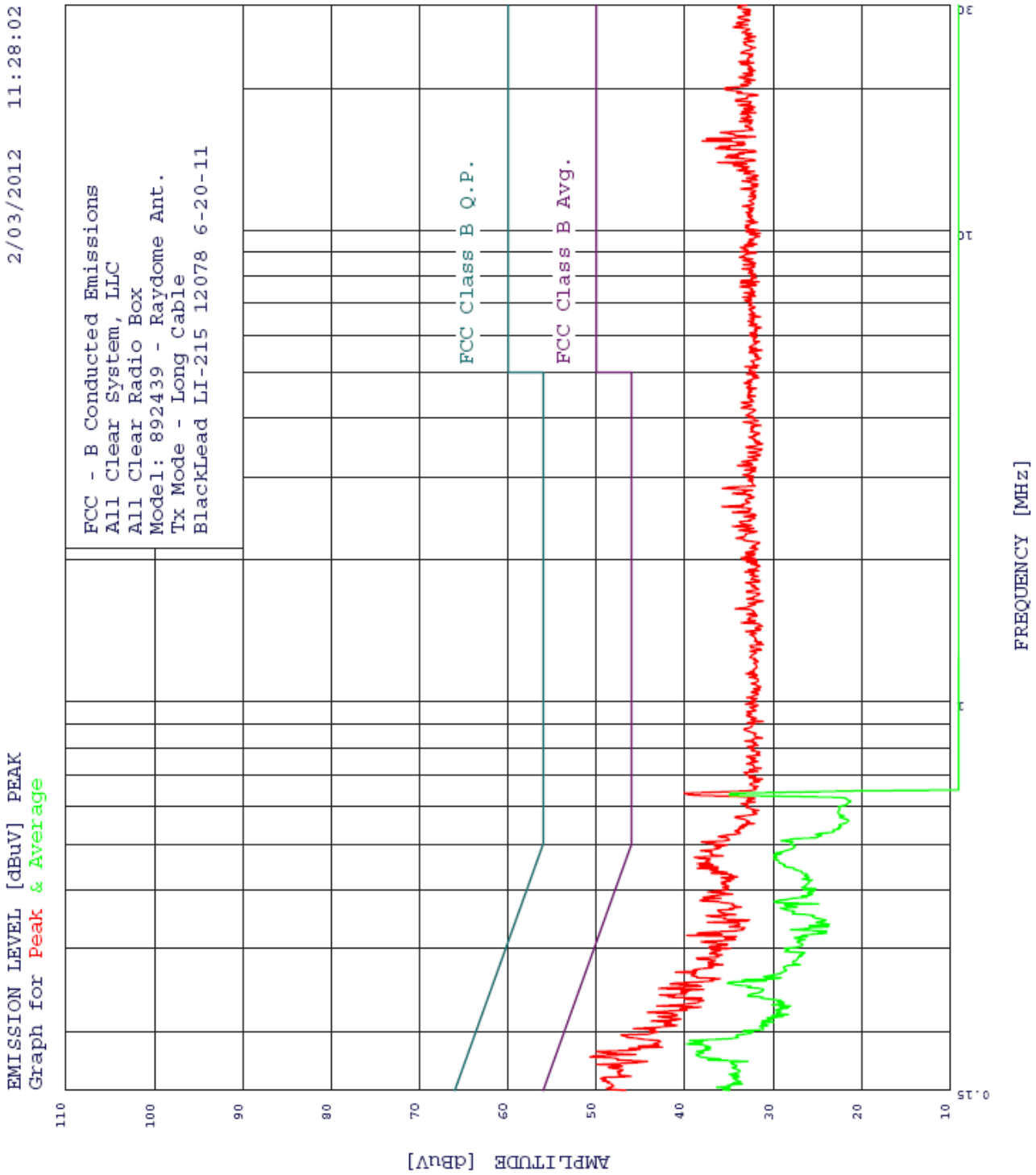
2/03/2012 10:38:24

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Short Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.641	35.77	46.00	-10.23
2	0.471	30.21	46.49	-16.28
3	0.160	34.69	55.47	-20.78
4	0.194	32.81	53.88	-21.08
5	0.167	33.83	55.11	-21.29
6	0.174	33.31	54.77	-21.46
7	0.196	32.27	53.80	-21.53
8	0.169	33.46	55.03	-21.56
9	0.162	33.79	55.38	-21.59
10	0.187	32.37	54.15	-21.78
11	0.164	33.45	55.25	-21.80
12	0.151	34.15	55.95	-21.80
13	0.415	25.68	47.55	-21.87
14	0.189	32.14	54.06	-21.92
15	0.276	29.01	50.94	-21.93
16	0.183	32.44	54.37	-21.93
17	0.185	32.29	54.24	-21.95
18	0.411	25.67	47.63	-21.96
19	0.389	26.08	48.08	-21.99
20	0.406	25.67	47.72	-22.05
21	0.396	25.87	47.95	-22.07
22	0.402	25.67	47.81	-22.14
23	0.155	33.58	55.73	-22.15
24	0.157	33.47	55.64	-22.17
25	0.421	25.23	47.42	-22.19
26	0.181	32.27	54.46	-22.19
27	0.426	25.12	47.33	-22.20
28	0.178	32.32	54.59	-22.27
29	0.153	33.53	55.82	-22.29
30	0.360	26.38	48.73	-22.35
31	0.521	23.62	46.00	-22.38
32	0.203	30.99	53.49	-22.50
33	0.207	30.63	53.31	-22.68
34	0.211	29.96	53.18	-23.22
35	0.377	25.10	48.34	-23.23
36	0.530	22.68	46.00	-23.32
37	0.213	29.39	53.09	-23.71
38	0.216	28.95	52.96	-24.01
39	0.367	24.50	48.56	-24.06
40	0.219	28.80	52.87	-24.07
41	0.611	21.93	46.00	-24.07
42	0.228	28.43	52.52	-24.09
43	0.235	27.99	52.25	-24.27
44	0.221	28.50	52.78	-24.28
45	0.552	21.72	46.00	-24.28
46	0.267	26.90	51.20	-24.29
47	0.270	26.81	51.11	-24.30
48	0.273	26.70	51.02	-24.32


2/03/2012 11:28:02
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/03/2012 11:28:02

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.177	50.72	54.63	-3.91**
2	0.182	49.92	54.41	-4.49**
3	0.170	49.92	54.94	-5.02**
4	0.159	49.52	55.51	-5.99**
5	0.641	40.01	46.00	-5.99**
6	0.168	48.62	55.07	-6.45**
7	0.197	47.22	53.75	-6.53**
8	0.469	38.91	46.53	-7.63**
9	0.203	45.83	53.49	-7.66**
10	0.505	38.11	46.00	-7.89**
11	0.184	46.32	54.28	-7.96**
12	0.484	38.21	46.27	-8.07**
13	0.454	38.60	46.80	-8.20**
14	0.445	38.60	46.98	-8.37**
15	0.449	38.30	46.89	-8.59**
16	0.220	44.23	52.83	-8.60**
17	0.247	42.94	51.86	-8.92**
18	0.186	45.22	54.19	-8.97**
19	0.239	42.83	52.12	-9.29**
20	0.211	43.83	53.18	-9.35**
21	0.227	43.13	52.57	-9.44**
22	0.518	36.21	46.00	-9.79**
23	0.320	39.75	49.71	-9.95**
24	0.215	43.03	53.00	-9.98**
25	0.379	38.28	48.29	-10.01**
26	0.252	41.64	51.68	-10.04**
27	0.267	41.04	51.20	-10.16**
28	2.596	35.82	46.00	-10.18
29	0.433	37.00	47.19	-10.19**
30	2.840	35.73	46.00	-10.27
31	0.385	37.89	48.16	-10.28**
32	0.396	37.39	47.95	-10.55**
33	0.324	38.56	49.62	-11.06**
34	0.352	37.56	48.91	-11.35**
35	2.766	34.63	46.00	-11.37
36	2.527	34.62	46.00	-11.38
37	2.358	34.61	46.00	-11.39
38	0.424	35.90	47.37	-11.47**
39	0.570	34.31	46.00	-11.69**
40	1.577	34.30	46.00	-11.70
41	0.341	37.46	49.18	-11.72**
42	2.226	34.21	46.00	-11.79
43	0.310	38.15	49.97	-11.81**
44	3.175	34.04	46.00	-11.96
45	15.478	38.04	50.00	-11.96
46	0.286	38.65	50.63	-11.98**
47	2.310	33.91	46.00	-12.09
48	2.410	33.81	46.00	-12.19

*Please See the Average Readings on the Next Page and on the Plot

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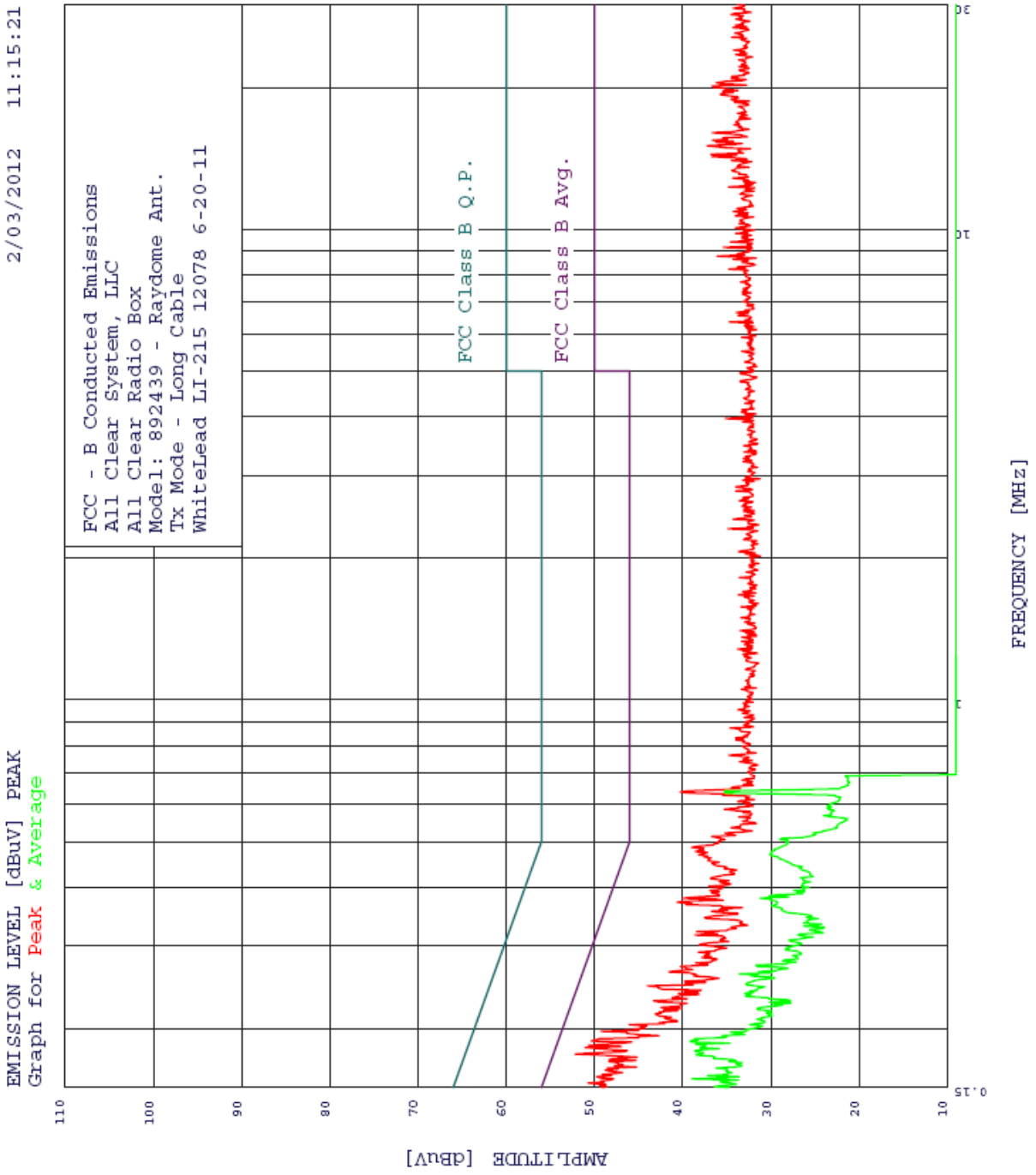
2/03/2012 11:28:02

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	34.95	46.00	-11.05
2	0.188	39.81	54.10	-14.29
3	0.192	39.49	53.97	-14.48
4	0.182	38.65	54.41	-15.76
5	0.179	38.71	54.54	-15.83
6	0.254	35.17	51.64	-16.47
7	0.474	29.94	46.45	-16.51
8	0.184	37.73	54.28	-16.55
9	0.479	29.71	46.36	-16.65
10	0.466	29.87	46.58	-16.70
11	0.508	29.11	46.00	-16.89
12	0.174	37.38	54.77	-17.39
13	0.500	28.00	46.01	-18.01
14	0.258	33.50	51.51	-18.01
15	0.449	28.81	46.89	-18.08
16	0.377	29.85	48.34	-18.49
17	0.248	32.90	51.82	-18.92
18	0.238	32.84	52.17	-19.32
19	0.442	27.65	47.02	-19.37
20	0.365	29.18	48.61	-19.42
21	0.152	36.38	55.86	-19.48
22	0.196	34.17	53.80	-19.62
23	0.371	28.71	48.47	-19.77
24	0.172	34.78	54.86	-20.08
25	0.201	33.41	53.58	-20.17
26	0.151	35.66	55.95	-20.29
27	0.262	31.07	51.38	-20.31
28	0.162	34.97	55.34	-20.37
29	0.168	34.66	55.07	-20.41
30	0.154	35.13	55.78	-20.64
31	0.421	26.70	47.42	-20.72
32	0.161	34.68	55.43	-20.75
33	0.524	25.20	46.00	-20.80
34	0.428	26.46	47.28	-20.82
35	0.235	31.42	52.25	-20.83
36	0.404	26.80	47.77	-20.97
37	0.356	27.83	48.82	-21.00
38	0.159	34.50	55.51	-21.01
39	0.156	34.56	55.69	-21.13
40	0.387	26.79	48.12	-21.33
41	0.400	26.50	47.86	-21.35
42	0.329	28.03	49.48	-21.46
43	0.415	26.01	47.55	-21.54
44	0.300	28.65	50.23	-21.58
45	0.296	28.68	50.36	-21.69
46	0.205	31.53	53.40	-21.87
47	0.393	26.10	47.99	-21.89
48	0.211	31.29	53.18	-21.89


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
2/03/2012 11:15:21
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/03/2012 11:15:21

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.177	52.16	54.63	-2.47**
2	0.183	51.06	54.37	-3.31**
3	0.184	50.66	54.28	-3.63**
4	0.188	50.36	54.10	-3.75**
5	0.198	49.26	53.71	-4.46**
6	0.153	50.71	55.82	-5.11**
7	0.637	40.27	46.00	-5.73**
8	0.158	49.73	55.56	-5.83**
9	0.160	49.13	55.47	-6.34**
10	0.172	48.36	54.86	-6.50**
11	0.163	48.74	55.29	-6.55**
12	0.170	48.36	54.94	-6.58**
13	0.165	48.54	55.20	-6.66**
14	0.486	38.99	46.23	-7.24**
15	0.204	46.06	53.44	-7.38**
16	0.371	40.62	48.47	-7.85**
17	0.247	43.99	51.86	-7.86**
18	0.379	39.92	48.29	-8.37**
19	0.229	43.28	52.48	-9.20**
20	0.513	36.71	46.00	-9.29**
21	0.265	41.57	51.29	-9.72**
22	0.215	43.07	53.00	-9.94**
23	0.222	42.47	52.74	-10.27**
24	0.627	35.47	46.00	-10.53**
25	0.220	42.17	52.83	-10.65**
26	0.417	36.84	47.50	-10.67**
27	0.586	35.26	46.00	-10.74**
28	0.402	37.03	47.81	-10.78**
29	0.521	35.21	46.00	-10.79**
30	0.272	40.26	51.07	-10.81**
31	3.966	35.15	46.00	-10.85
32	0.393	36.92	47.99	-11.07**
33	2.310	34.88	46.00	-11.12
34	0.233	41.18	52.34	-11.16**
35	0.317	38.61	49.79	-11.18**
36	0.763	34.76	46.00	-11.24
37	0.322	38.41	49.66	-11.25**
38	0.872	34.65	46.00	-11.35
39	0.535	34.52	46.00	-11.48**
40	0.345	37.52	49.09	-11.57**
41	0.238	40.49	52.17	-11.68**
42	2.423	34.28	46.00	-11.72
43	0.411	35.83	47.63	-11.80**
44	0.252	39.79	51.68	-11.89**
45	2.840	33.99	46.00	-12.01
46	2.781	33.99	46.00	-12.01
47	0.822	33.96	46.00	-12.04
48	0.302	38.10	50.19	-12.09**

*Please See the Average Readings on the Next Page and on the Plot

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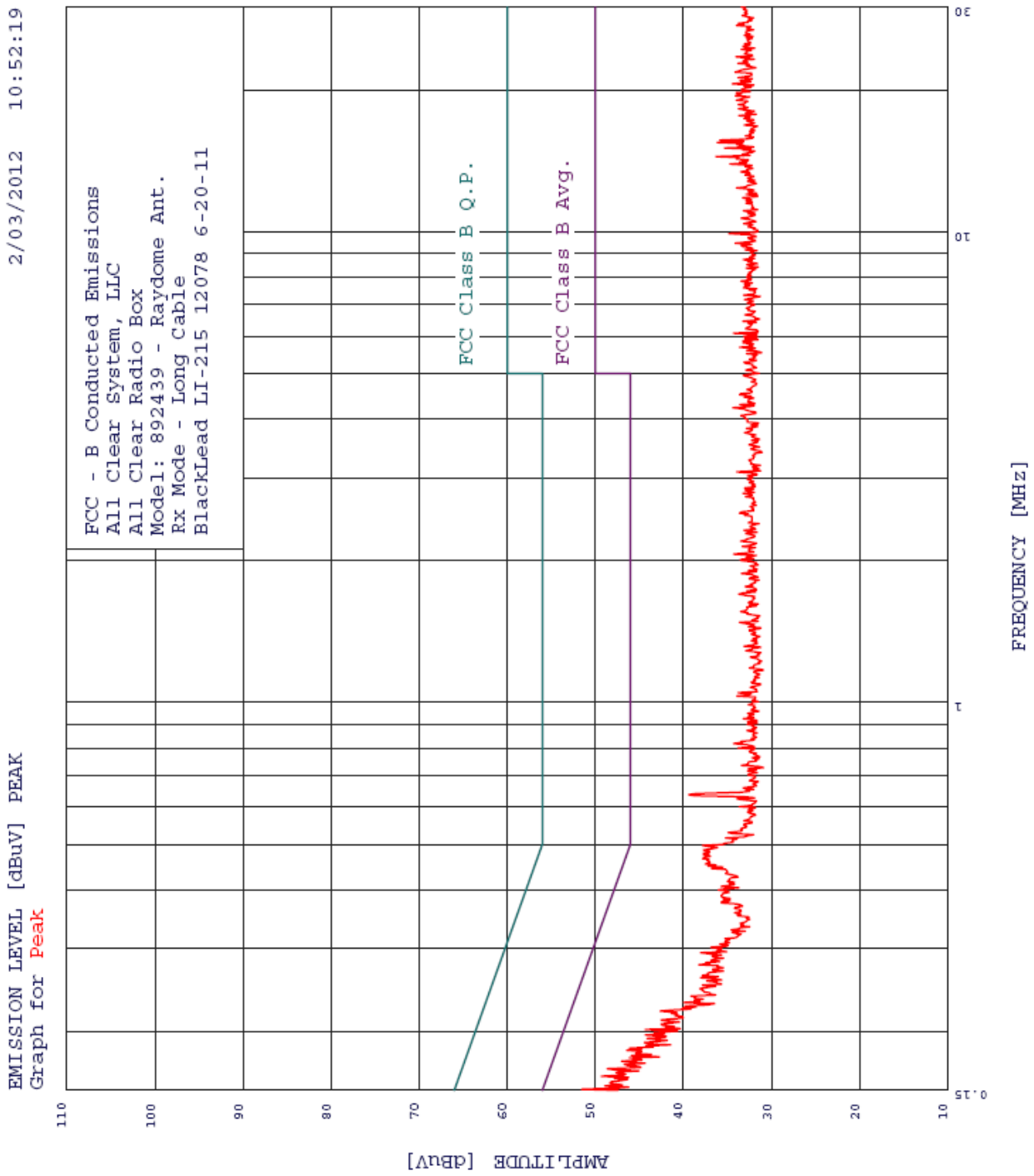
2/03/2012 11:15:21

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Tx Mode - Long Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	35.28	46.00	-10.72
2	0.188	39.16	54.10	-14.95
3	0.190	38.68	54.01	-15.34
4	0.185	38.54	54.24	-15.70
5	0.180	38.61	54.50	-15.89
6	0.176	38.50	54.68	-16.18
7	0.183	38.02	54.37	-16.35
8	0.469	30.11	46.53	-16.43
9	0.474	30.01	46.45	-16.44
10	0.481	29.65	46.32	-16.67
11	0.157	38.94	55.64	-16.70
12	0.379	31.23	48.29	-17.06
13	0.505	28.91	46.00	-17.09
14	0.500	28.25	46.01	-17.76
15	0.262	33.57	51.38	-17.80
16	0.383	30.18	48.21	-18.02
17	0.173	36.51	54.81	-18.30
18	0.194	35.56	53.88	-18.33
19	0.159	37.18	55.51	-18.34
20	0.365	29.92	48.61	-18.68
21	0.250	32.80	51.77	-18.97
22	0.165	36.21	55.20	-18.99
23	0.197	34.60	53.75	-19.16
24	0.238	32.98	52.17	-19.19
25	0.259	32.26	51.47	-19.21
26	0.273	31.65	51.02	-19.37
27	0.234	32.83	52.30	-19.46
28	0.151	36.39	55.95	-19.56
29	0.240	32.42	52.08	-19.66
30	0.265	31.43	51.29	-19.86
31	0.358	28.79	48.78	-19.99
32	0.154	35.75	55.78	-20.02
33	0.170	34.73	54.94	-20.21
34	0.162	35.10	55.34	-20.24
35	0.440	26.80	47.06	-20.26
36	0.243	31.61	52.00	-20.38
37	0.161	34.96	55.43	-20.47
38	0.393	27.41	47.99	-20.58
39	0.199	32.88	53.67	-20.79
40	0.521	25.19	46.00	-20.81
41	0.419	26.64	47.46	-20.82
42	0.204	32.39	53.44	-21.05
43	0.389	27.00	48.08	-21.07
44	0.169	33.95	55.03	-21.07
45	0.415	26.35	47.55	-21.20
46	0.221	31.54	52.78	-21.24
47	0.402	26.54	47.81	-21.27
48	0.406	26.44	47.72	-21.28


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
2/03/2012 10:52:19
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Long Cable
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

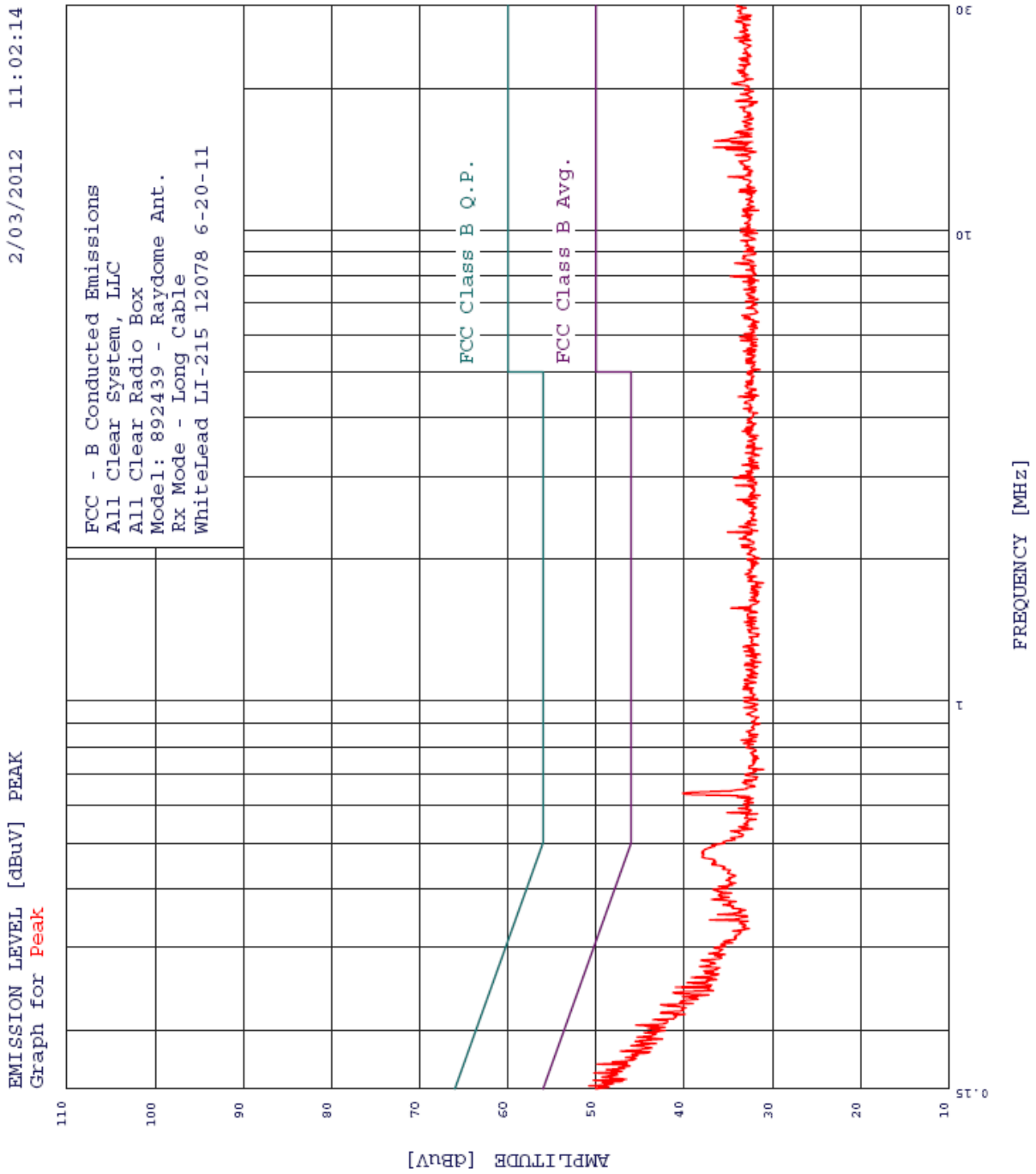
page 1/1

2/03/2012 10:52:19

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Long Cable
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	51.52	55.95	-4.43
2	0.161	49.32	55.43	-6.11
3	0.167	48.62	55.11	-6.50
4	0.637	39.41	46.00	-6.59
5	0.153	48.92	55.82	-6.90
6	0.156	48.32	55.69	-7.37
7	0.163	47.62	55.29	-7.67
8	0.159	47.82	55.51	-7.69
9	0.173	47.02	54.81	-7.79
10	0.183	46.42	54.37	-7.95
11	0.184	46.12	54.28	-8.16
12	0.170	46.72	54.94	-8.22
13	0.497	37.81	46.05	-8.24
14	0.176	46.12	54.68	-8.56
15	0.178	45.92	54.59	-8.67
16	0.466	37.80	46.58	-8.77
17	0.202	44.33	53.53	-9.21
18	0.197	44.32	53.75	-9.43
19	0.189	44.42	54.06	-9.64
20	0.194	44.12	53.88	-9.76
21	0.221	42.63	52.78	-10.15
22	0.445	36.80	46.98	-10.17
23	0.199	43.32	53.67	-10.34
24	0.212	42.53	53.14	-10.61
25	0.207	42.53	53.31	-10.78
26	0.516	35.21	46.00	-10.79
27	0.530	34.91	46.00	-11.09
28	4.227	34.37	46.00	-11.63
29	2.066	34.30	46.00	-11.70
30	0.818	34.30	46.00	-11.70
31	0.400	35.99	47.86	-11.86
32	0.406	35.70	47.72	-12.03
33	3.091	33.94	46.00	-12.06
34	0.624	33.91	46.00	-12.09
35	1.032	33.90	46.00	-12.10
36	0.801	33.80	46.00	-12.20
37	1.049	33.80	46.00	-12.20
38	1.699	33.70	46.00	-12.30
39	0.294	38.05	50.41	-12.36
40	2.527	33.62	46.00	-12.38
41	0.601	33.61	46.00	-12.39
42	1.480	33.60	46.00	-12.40
43	4.504	33.58	46.00	-12.42
44	4.294	33.58	46.00	-12.42
45	2.201	33.51	46.00	-12.49
46	0.230	39.93	52.43	-12.50
47	2.013	33.50	46.00	-12.50
48	1.560	33.50	46.00	-12.50


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
2/03/2012 11:02:14
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Long Cable
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

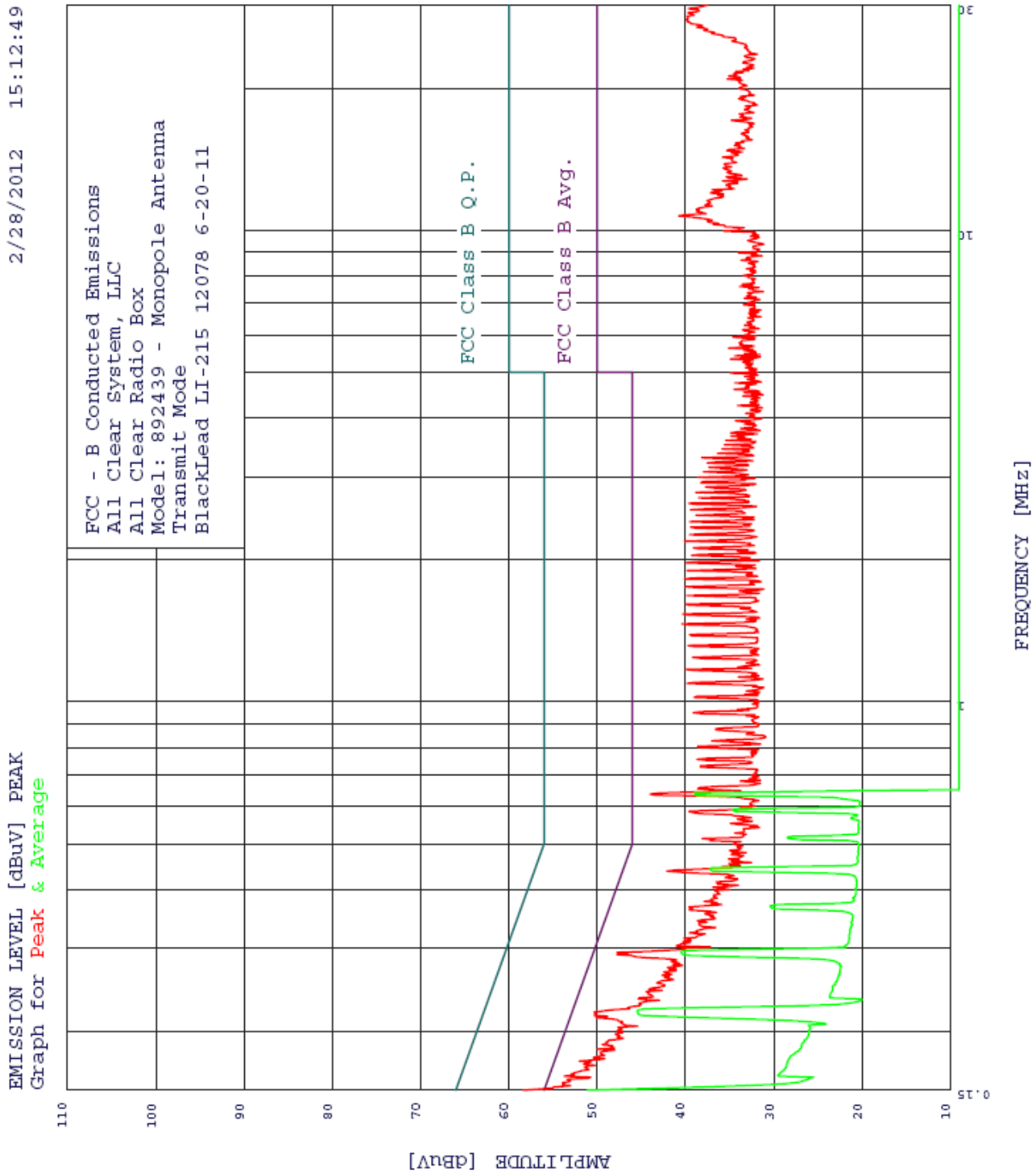
page 1/1

2/03/2012 11:02:14

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Raydome Ant.
Rx Mode - Long Cable
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.152	50.81	55.86	-5.06
2	0.162	50.24	55.34	-5.10
3	0.170	49.86	54.98	-5.13
4	0.157	50.32	55.64	-5.32
5	0.637	40.17	46.00	-5.83
6	0.159	49.33	55.51	-6.19
7	0.165	48.84	55.20	-6.36
8	0.155	49.32	55.73	-6.41
9	0.171	48.16	54.90	-6.74
10	0.181	47.26	54.46	-7.20
11	0.205	45.46	53.40	-7.94
12	0.175	46.66	54.72	-8.06
13	0.185	46.06	54.24	-8.18
14	0.479	37.98	46.36	-8.38
15	0.189	45.56	54.06	-8.50
16	0.194	45.36	53.88	-8.53
17	0.198	44.56	53.71	-9.16
18	0.202	44.16	53.53	-9.37
19	0.211	43.56	53.18	-9.62
20	0.227	42.68	52.57	-9.89
21	0.217	42.67	52.91	-10.24
22	0.240	41.29	52.08	-10.79
23	0.580	35.16	46.00	-10.84
24	0.247	40.99	51.86	-10.86
25	2.286	35.08	46.00	-10.92
26	0.398	36.72	47.90	-11.18
27	0.530	34.72	46.00	-11.28
28	1.577	34.70	46.00	-11.30
29	0.379	36.92	48.29	-11.37
30	2.979	34.39	46.00	-11.61
31	0.404	36.13	47.77	-11.64
32	2.870	34.19	46.00	-11.81
33	0.252	39.69	51.68	-11.99
34	0.387	36.12	48.12	-11.99
35	0.229	40.48	52.48	-12.00
36	2.679	33.99	46.00	-12.01
37	0.343	37.12	49.13	-12.02
38	0.624	33.97	46.00	-12.03
39	0.235	40.19	52.25	-12.07
40	4.432	33.87	46.00	-12.13
41	0.592	33.86	46.00	-12.14
42	0.541	33.83	46.00	-12.17
43	2.346	33.78	46.00	-12.22
44	2.214	33.77	46.00	-12.23
45	0.417	35.24	47.50	-12.27
46	0.259	39.18	51.47	-12.29
47	3.011	33.70	46.00	-12.30
48	2.145	33.57	46.00	-12.43


2/28/2012 15:12:49
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

2/28/2012 15:12:49

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.161	53.72	55.43	-1.71**
2	0.637	44.01	46.00	-1.99**
3	0.220	50.33	52.83	-2.50**
4	0.294	47.75	50.41	-2.66**
5	0.291	47.75	50.49	-2.75**
6	0.173	52.02	54.81	-2.79**
7	0.214	50.13	53.05	-2.92**
8	0.176	50.42	54.68	-4.26**
9	0.183	49.92	54.33	-4.41**
10	0.187	49.42	54.15	-4.73**
11	0.438	42.10	47.11	-5.01**
12	1.464	40.40	46.00	-5.60
13	1.536	40.30	46.00	-5.70
14	2.190	40.11	46.00	-5.89
15	1.820	40.10	46.00	-5.90
16	1.754	40.00	46.00	-6.00
17	1.172	39.90	46.00	-6.10
18	1.611	39.90	46.00	-6.10
19	1.971	39.90	46.00	-6.10
20	1.094	39.80	46.00	-6.20
21	1.680	39.80	46.00	-6.20
22	1.899	39.80	46.00	-6.20
23	1.318	39.70	46.00	-6.30
24	2.637	39.62	46.00	-6.38
25	0.586	39.61	46.00	-6.39**
26	2.410	39.51	46.00	-6.49
27	2.262	39.51	46.00	-6.49
28	1.389	39.50	46.00	-6.50
29	2.554	39.42	46.00	-6.58
30	2.346	39.41	46.00	-6.59
31	2.044	39.30	46.00	-6.70
32	1.243	39.20	46.00	-6.80
33	2.123	39.10	46.00	-6.90
34	0.948	39.10	46.00	-6.90
35	0.234	45.33	52.30	-6.96**
36	1.021	39.00	46.00	-7.00
37	2.781	38.83	46.00	-7.17
38	2.488	38.82	46.00	-7.18
39	0.755	38.70	46.00	-7.30
40	0.655	38.60	46.00	-7.40
41	0.805	38.60	46.00	-7.40
42	2.995	38.53	46.00	-7.47
43	2.707	38.52	46.00	-7.48
44	0.728	38.30	46.00	-7.70
45	0.246	44.14	51.90	-7.77**
46	2.916	38.23	46.00	-7.77
47	3.294	38.14	46.00	-7.86
48	0.513	38.11	46.00	-7.89**

*Please See the Average Readings on the Next Page and on the Plot

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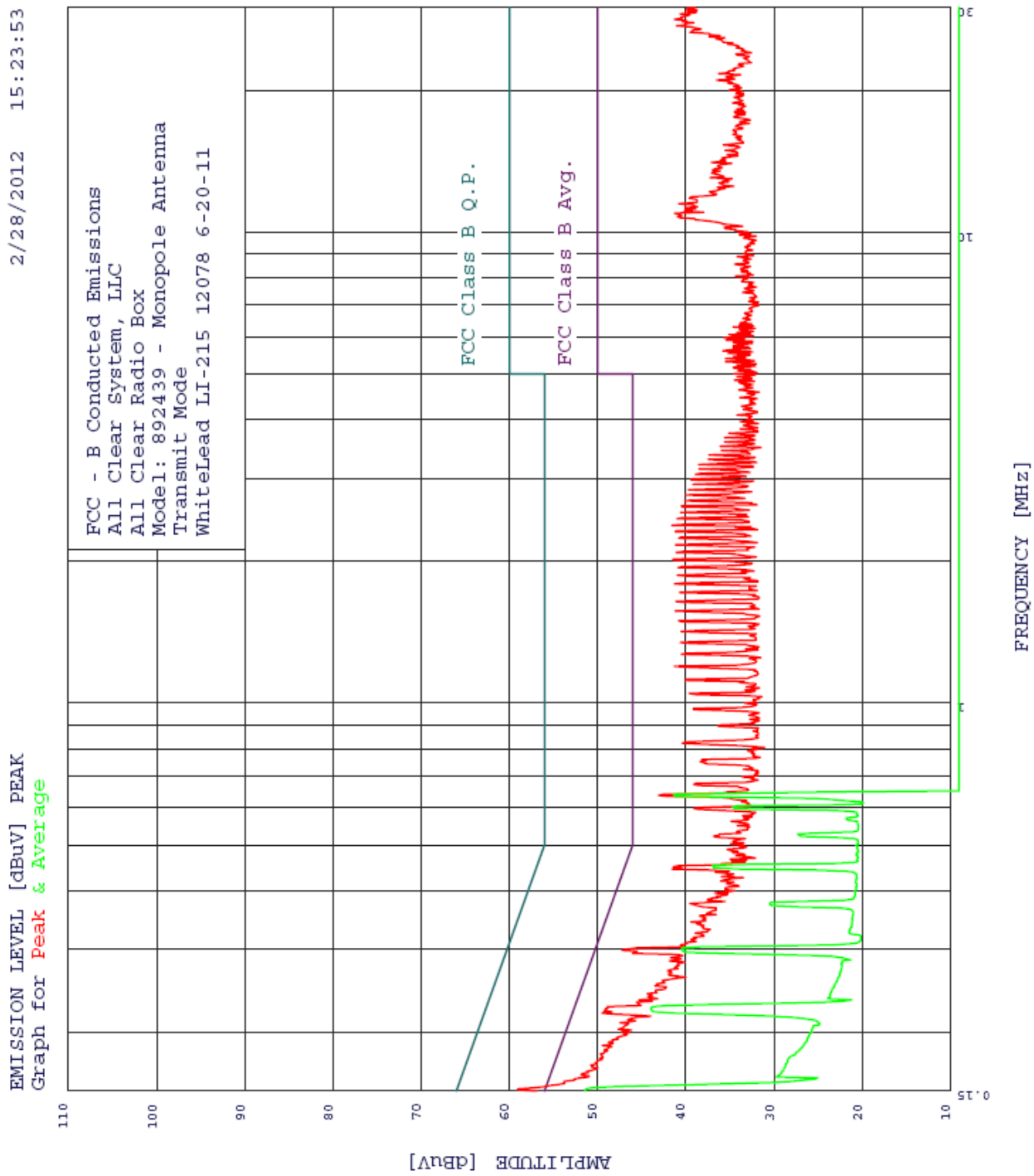
2/28/2012 15:12:49

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.641	38.98	46.00	-7.02
2	0.221	45.47	52.78	-7.31
3	0.442	37.19	47.02	-9.83
4	0.294	40.48	50.41	-9.93
5	0.589	34.63	46.00	-11.37
6	0.516	28.44	46.00	-17.56
7	0.369	30.39	48.52	-18.13
8	0.567	21.24	46.00	-24.76
9	0.538	20.40	46.00	-25.60
10	0.544	20.40	46.00	-25.60
11	0.555	20.40	46.00	-25.60
12	0.608	20.30	46.00	-25.70
13	0.492	20.40	46.14	-25.74
14	0.481	20.50	46.32	-25.82
15	0.162	29.55	55.38	-25.83
16	0.466	20.58	46.58	-25.99
17	0.471	20.50	46.49	-25.99
18	0.172	28.46	54.86	-26.40
19	0.170	28.58	54.98	-26.41
20	0.177	28.15	54.63	-26.48
21	0.417	20.68	47.50	-26.83
22	0.409	20.68	47.68	-27.00
23	0.402	20.77	47.81	-27.05
24	0.383	21.03	48.21	-27.17
25	0.206	26.09	53.35	-27.27
26	0.188	26.81	54.10	-27.29
27	0.389	20.76	48.08	-27.32
28	0.186	26.86	54.19	-27.33
29	0.192	26.52	53.97	-27.45
30	0.204	25.99	53.44	-27.46
31	0.201	26.04	53.58	-27.54
32	0.196	26.13	53.80	-27.66
33	0.198	26.03	53.71	-27.68
34	0.347	21.10	49.04	-27.94
35	0.341	21.19	49.18	-27.99
36	0.334	21.28	49.35	-28.07
37	0.329	21.37	49.48	-28.12
38	0.304	21.95	50.14	-28.19
39	0.325	21.37	49.57	-28.21
40	0.320	21.45	49.71	-28.25
41	0.276	22.58	50.94	-28.35
42	0.312	21.53	49.92	-28.39
43	0.250	23.31	51.77	-28.46
44	0.240	23.58	52.08	-28.51
45	0.238	23.64	52.17	-28.52
46	0.244	23.38	51.95	-28.57
47	0.252	23.10	51.68	-28.58
48	0.273	22.42	51.02	-28.60


2/28/2012 15:23:53
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
FREQUENCY [MHz]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30

page 1/1

2/28/2012 15:23:53

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.152	59.01	55.91	3.10**
2	0.637	43.07	46.00	-2.93**
3	0.299	47.20	50.28	-3.08**
4	0.220	49.47	52.83	-3.35**
5	2.384	41.58	46.00	-4.42
6	2.023	41.46	46.00	-4.54
7	0.187	49.46	54.15	-4.69**
8	1.790	41.28	46.00	-4.72
9	1.197	41.28	46.00	-4.72
10	1.569	41.20	46.00	-4.80
11	2.310	41.18	46.00	-4.82
12	2.168	41.17	46.00	-4.83
13	1.646	41.10	46.00	-4.90
14	2.089	41.06	46.00	-4.94
15	2.462	40.98	46.00	-5.02
16	1.869	40.97	46.00	-5.03
17	1.939	40.87	46.00	-5.13
18	1.496	40.81	46.00	-5.19
19	2.238	40.77	46.00	-5.23
20	1.717	40.69	46.00	-5.31
21	1.345	40.59	46.00	-5.41
22	2.540	40.59	46.00	-5.41
23	0.445	41.56	46.98	-5.42**
24	1.419	40.50	46.00	-5.50
25	2.624	40.49	46.00	-5.51
26	1.269	40.49	46.00	-5.51
27	0.822	40.36	46.00	-5.64
28	0.210	47.46	53.23	-5.76**
29	0.203	47.66	53.49	-5.83**
30	2.693	40.09	46.00	-5.91
31	1.118	40.06	46.00	-5.94
32	2.766	39.99	46.00	-6.01
33	2.840	39.69	46.00	-6.31
34	1.049	39.64	46.00	-6.36
35	2.979	39.39	46.00	-6.61
36	2.916	39.19	46.00	-6.81
37	0.974	39.13	46.00	-6.87
38	0.672	39.07	46.00	-6.93
39	0.598	39.07	46.00	-6.93**
40	0.234	45.28	52.30	-7.01**
41	3.059	38.90	46.00	-7.10
42	3.209	38.53	46.00	-7.47
43	3.141	38.52	46.00	-7.48
44	0.751	38.36	46.00	-7.64
45	0.242	44.39	52.04	-7.65**
46	0.251	43.50	51.73	-8.23**
47	3.294	37.44	46.00	-8.56
48	3.365	37.35	46.00	-8.65

*Please See the Average Readings on the Next Page and on the Plot

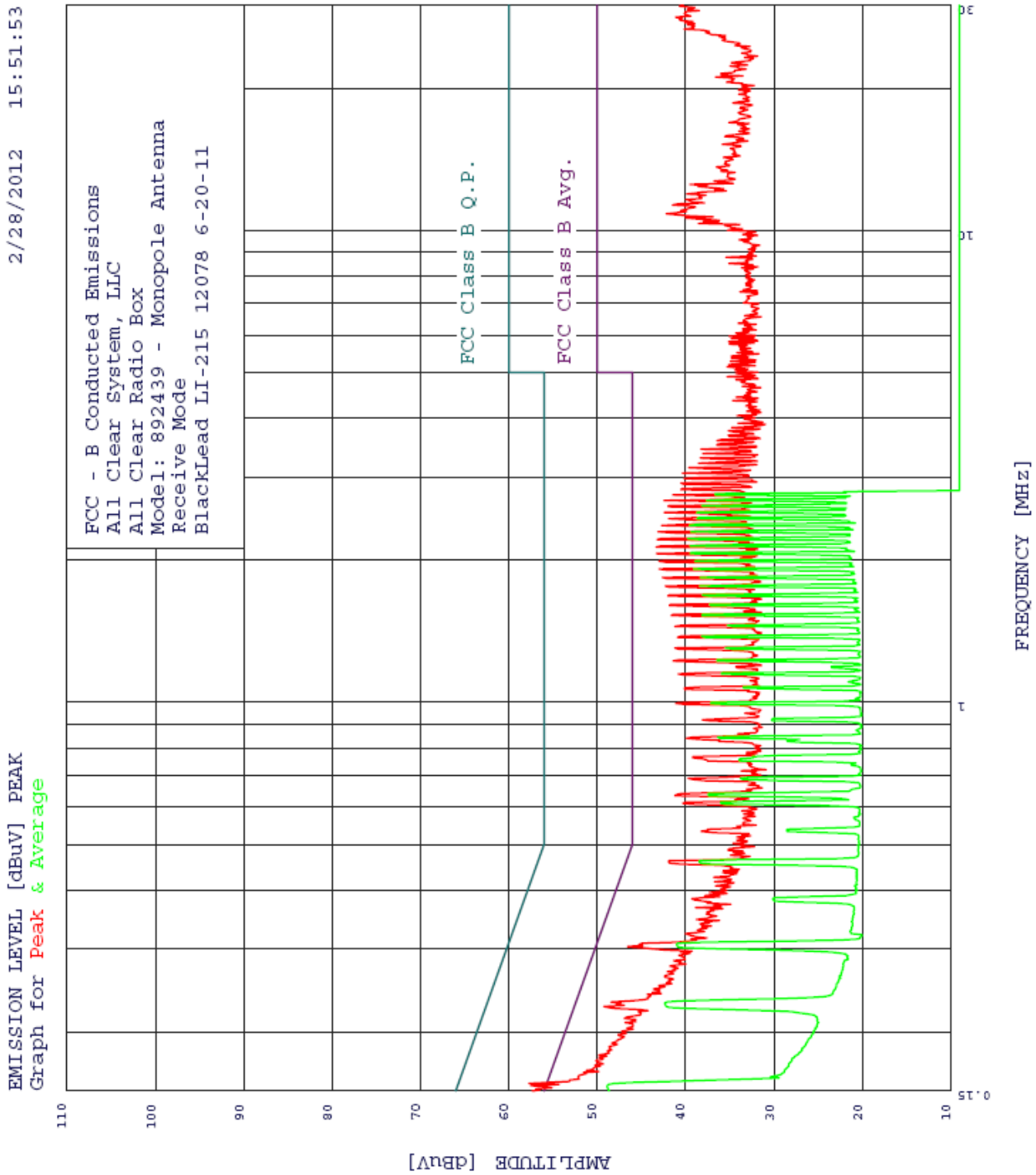
page 1/1

2/28/2012 15:23:53

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Transmit Mode
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

42 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	51.36	55.95	-4.59
2	0.641	41.33	46.00	-4.67
3	0.226	43.93	52.61	-8.68
4	0.300	40.43	50.23	-9.80
5	0.452	36.95	46.85	-9.89
6	0.601	34.66	46.00	-11.34
7	0.375	30.46	48.38	-17.92
8	0.527	27.29	46.00	-18.71
9	0.567	21.82	46.00	-24.18
10	0.500	20.68	46.01	-25.33
11	0.492	20.58	46.14	-25.56
12	0.479	20.66	46.36	-25.70
13	0.161	29.73	55.43	-25.70
14	0.474	20.66	46.45	-25.79
15	0.466	20.56	46.58	-26.01
16	0.165	29.14	55.20	-26.06
17	0.167	28.90	55.11	-26.22
18	0.170	28.68	54.94	-26.26
19	0.174	28.45	54.77	-26.32
20	0.421	20.72	47.42	-26.70
21	0.417	20.72	47.50	-26.79
22	0.406	20.71	47.72	-27.01
23	0.400	20.79	47.86	-27.06
24	0.387	20.89	48.12	-27.22
25	0.195	26.22	53.84	-27.62
26	0.197	26.07	53.75	-27.69
27	0.206	25.59	53.35	-27.76
28	0.354	21.07	48.87	-27.79
29	0.202	25.70	53.53	-27.83
30	0.348	21.16	49.00	-27.84
31	0.343	21.16	49.13	-27.98
32	0.331	21.42	49.44	-28.01
33	0.327	21.51	49.53	-28.01
34	0.336	21.25	49.31	-28.06
35	0.237	23.87	52.21	-28.34
36	0.283	22.28	50.72	-28.43
37	0.242	23.60	52.04	-28.44
38	0.247	23.39	51.86	-28.46
39	0.279	22.37	50.85	-28.48
40	0.251	23.18	51.73	-28.55
41	0.270	22.47	51.11	-28.64
42	0.266	22.55	51.24	-28.70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EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
BlackLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

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2/28/2012 15:51:53

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.156	57.72	55.69	2.03**
2	0.154	57.52	55.78	1.75**
3	2.134	43.30	46.00	-2.70**
4	2.066	43.30	46.00	-2.70**
5	2.214	43.21	46.00	-2.79**
6	2.298	43.11	46.00	-2.89**
7	1.918	43.00	46.00	-3.00**
8	1.992	43.00	46.00	-3.00**
9	2.371	42.71	46.00	-3.29**
10	0.227	49.23	52.57	-3.34**
11	1.840	42.60	46.00	-3.40**
12	2.679	42.42	46.00	-3.58**
13	2.527	42.42	46.00	-3.58**
14	0.304	46.55	50.14	-3.59**
15	1.763	42.30	46.00	-3.70**
16	0.166	51.22	55.16	-3.94**
17	0.232	48.43	52.39	-3.95**
18	1.680	42.00	46.00	-4.00**
19	2.610	41.92	46.00	-4.08**
20	2.449	41.91	46.00	-4.09**
21	1.603	41.80	46.00	-4.20**
22	1.528	41.60	46.00	-4.40**
23	2.751	41.43	46.00	-4.57**
24	1.223	41.40	46.00	-4.60**
25	0.461	41.90	46.67	-4.76**
26	0.634	41.21	46.00	-4.79**
27	1.304	41.20	46.00	-4.80**
28	1.449	41.20	46.00	-4.80**
29	0.995	41.10	46.00	-4.90**
30	1.374	40.90	46.00	-5.10**
31	1.148	40.80	46.00	-5.20**
32	2.916	40.53	46.00	-5.47
33	2.826	40.53	46.00	-5.47
34	3.059	40.34	46.00	-5.66
35	0.611	40.31	46.00	-5.69**
36	2.979	40.13	46.00	-5.87
37	1.066	40.10	46.00	-5.90**
38	0.839	39.90	46.00	-6.10**
39	0.214	46.93	53.05	-6.12**
40	0.690	39.70	46.00	-6.30**
41	3.141	39.64	46.00	-6.36
42	0.763	39.20	46.00	-6.80**
43	3.209	38.54	46.00	-7.46
44	3.294	38.34	46.00	-7.66
45	3.438	38.25	46.00	-7.75
46	0.532	38.21	46.00	-7.79**
47	10.851	42.15	50.00	-7.85
48	0.919	38.10	46.00	-7.90**

*Please See the Average Readings on the Next Page and on the Plot

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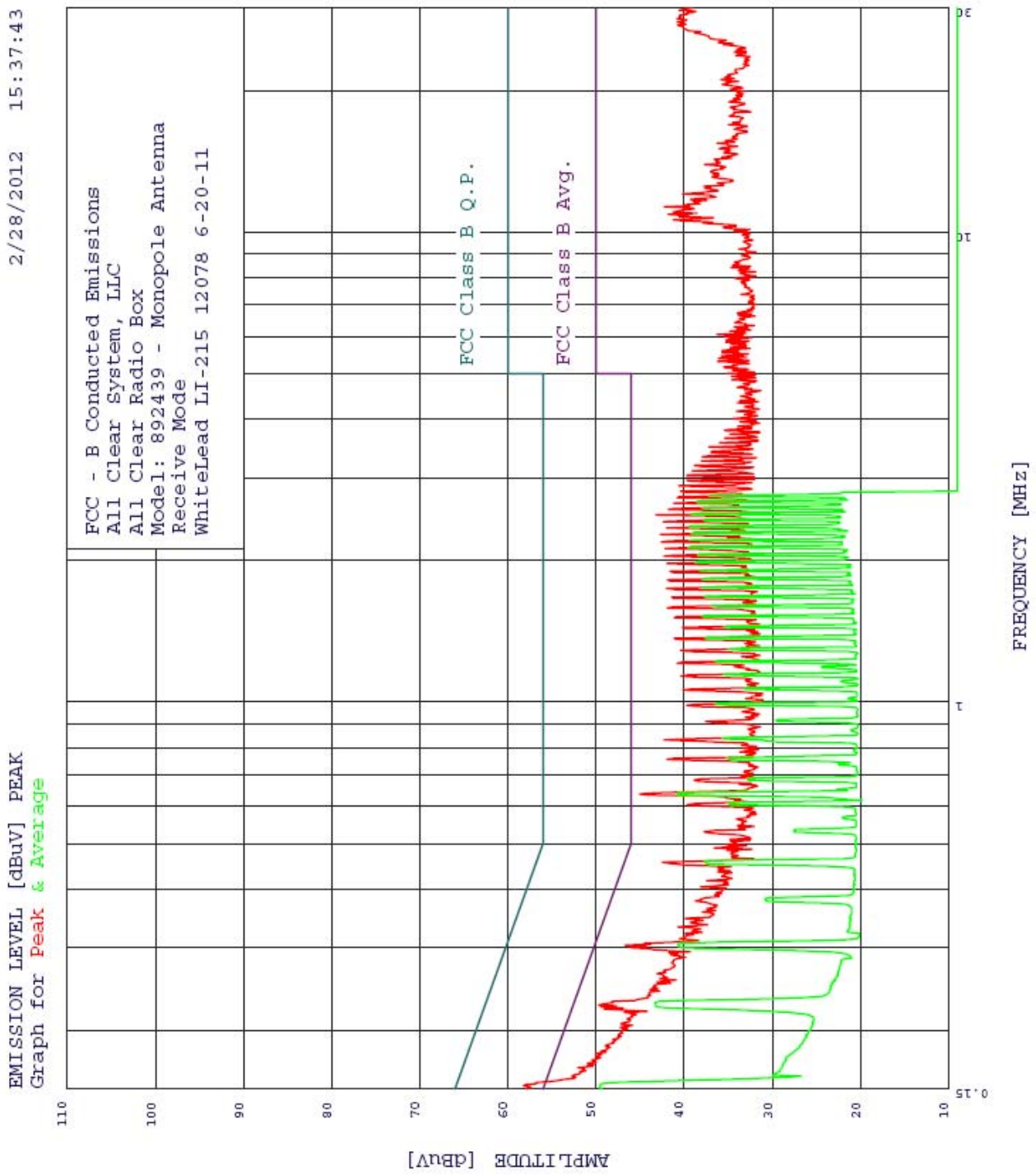
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
BlackLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	2.226	39.71	46.00	-6.29
2	2.371	39.53	46.00	-6.47
3	2.145	39.46	46.00	-6.54
4	2.066	39.42	46.00	-6.58
5	2.298	39.38	46.00	-6.62
6	1.918	39.06	46.00	-6.94
7	0.153	48.86	55.82	-6.96
8	1.992	38.91	46.00	-7.09
9	2.527	38.71	46.00	-7.29
10	2.449	38.65	46.00	-7.35
11	1.763	38.36	46.00	-7.64
12	1.840	38.30	46.00	-7.70
13	1.382	38.15	46.00	-7.85
14	2.610	38.14	46.00	-7.86
15	1.528	38.09	46.00	-7.91
16	1.690	38.09	46.00	-7.91
17	0.459	38.44	46.71	-8.27
18	2.679	37.58	46.00	-8.42
19	0.641	37.43	46.00	-8.57
20	1.611	37.25	46.00	-8.75
21	0.995	37.11	46.00	-8.89
22	0.307	40.98	50.05	-9.07
23	2.766	36.65	46.00	-9.35
24	1.230	36.43	46.00	-9.57
25	0.844	36.34	46.00	-9.66
26	0.611	36.00	46.00	-10.00
27	1.154	35.92	46.00	-10.08
28	0.230	42.33	52.43	-10.10
29	1.304	35.48	46.00	-10.52
30	1.456	35.25	46.00	-10.75
31	0.755	33.94	46.00	-12.06
32	0.690	33.80	46.00	-12.20
33	1.077	33.43	46.00	-12.57
34	0.767	32.36	46.00	-13.64
35	0.919	30.25	46.00	-15.75
36	0.535	28.55	46.00	-17.45
37	0.831	28.50	46.00	-17.50
38	0.383	30.14	48.21	-18.06
39	1.191	23.51	46.00	-22.49
40	2.568	22.35	46.00	-23.65
41	2.796	22.12	46.00	-23.88
42	2.111	21.92	46.00	-24.08
43	2.722	21.86	46.00	-24.14
44	2.262	21.68	46.00	-24.32
45	2.410	21.58	46.00	-24.42
46	2.334	21.58	46.00	-24.42
47	1.106	21.58	46.00	-24.42
48	2.034	21.50	46.00	-24.50


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
2/28/2012 15:37:43
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
WhiteLead LI-215 12078 6-20-11
FCC Class B Q.P.
FCC Class B Avg.
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

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2/28/2012 15:37:43

FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	45.07	46.00	-0.93**
2	2.501	43.19	46.00	-2.81**
3	0.227	49.68	52.57	-2.89**
4	0.224	49.48	52.65	-3.18**
5	2.274	42.67	46.00	-3.33**
6	2.190	42.57	46.00	-3.43**
7	0.304	46.70	50.14	-3.44**
8	2.423	42.38	46.00	-3.62**
9	0.222	49.07	52.74	-3.67**
10	2.044	42.26	46.00	-3.74**
11	0.831	42.25	46.00	-3.75**
12	2.123	42.17	46.00	-3.83**
13	1.745	41.99	46.00	-4.01**
14	2.346	41.98	46.00	-4.02**
15	0.755	41.96	46.00	-4.04**
16	1.971	41.96	46.00	-4.04**
17	1.586	41.90	46.00	-4.10**
18	1.820	41.88	46.00	-4.12**
19	0.300	46.10	50.23	-4.13**
20	2.568	41.79	46.00	-4.21**
21	0.457	42.47	46.76	-4.29**
22	1.899	41.57	46.00	-4.43**
23	1.671	41.39	46.00	-4.61**
24	2.651	41.19	46.00	-4.81**
25	1.512	41.11	46.00	-4.89**
26	1.367	41.10	46.00	-4.90**
27	2.722	40.79	46.00	-5.21**
28	1.210	40.78	46.00	-5.22**
29	2.885	40.59	46.00	-5.41
30	2.811	40.39	46.00	-5.61
31	1.290	40.39	46.00	-5.61**
32	1.136	40.36	46.00	-5.64**
33	1.441	40.20	46.00	-5.80**
34	1.060	40.15	46.00	-5.85**
35	0.219	46.77	52.87	-6.10**
36	0.206	47.16	53.35	-6.19**
37	0.984	39.73	46.00	-6.27**
38	3.027	39.70	46.00	-6.30
39	2.963	39.69	46.00	-6.31
40	0.605	39.67	46.00	-6.33**
41	3.107	39.11	46.00	-6.89
42	0.683	38.87	46.00	-7.13**
43	3.192	38.82	46.00	-7.18
44	11.322	42.27	50.00	-7.73
45	3.260	38.04	46.00	-7.96
46	3.328	37.95	46.00	-8.05
47	0.244	43.89	51.95	-8.06**
48	10.910	41.85	50.00	-8.15

*Please See the Average Readings on the Next Page and on the Plot

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2/28/2012 15:37:43

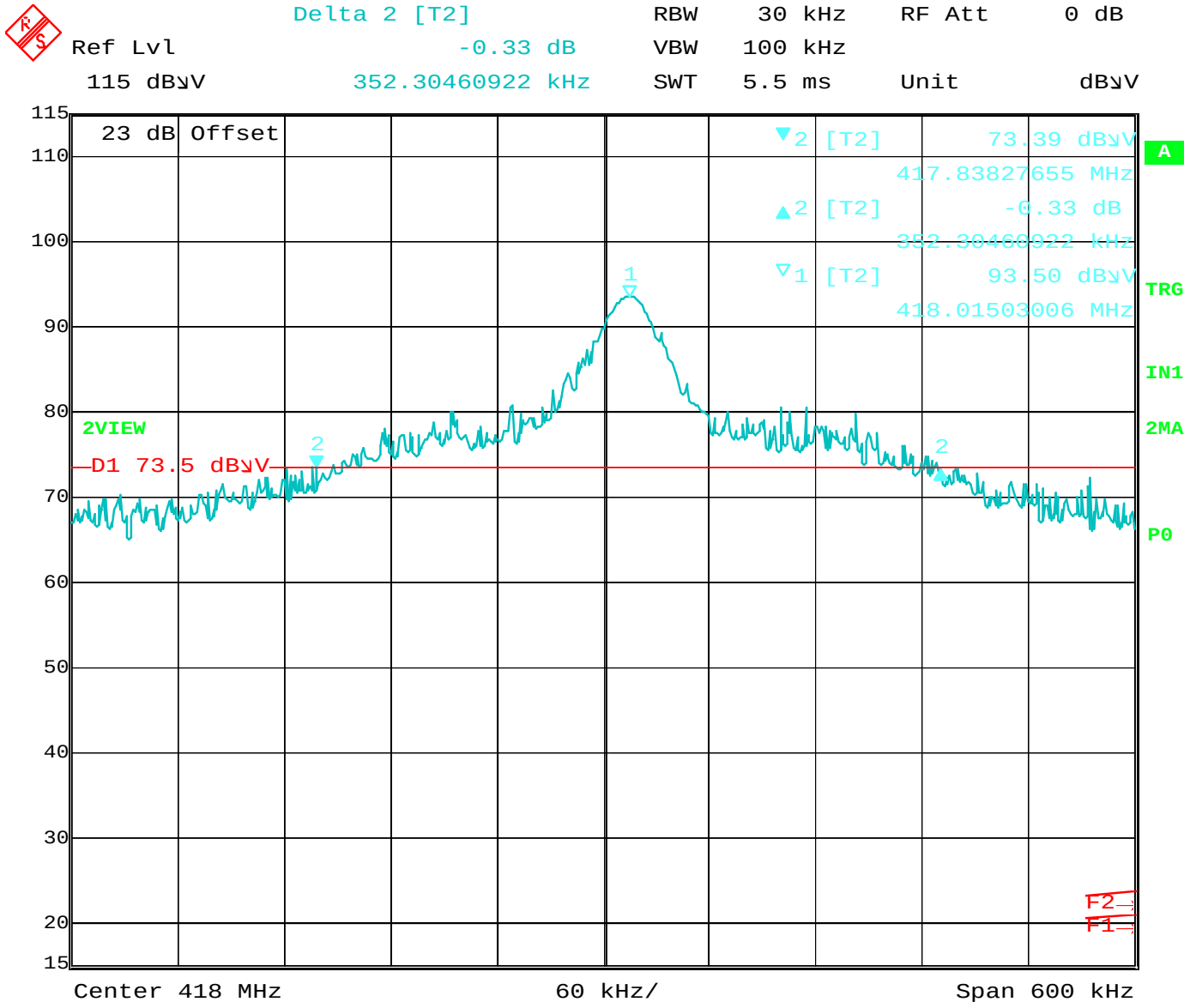
FCC - B Conducted Emissions
All Clear System, LLC
All Clear Radio Box
Model: 892439 - Monopole Antenna
Receive Mode
WhiteLead LI-215 12078 6-20-11
TEST ENGINEER : Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC Class B Avg. limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	40.75	46.00	-5.25
2	0.152	49.57	55.86	-6.30
3	2.134	39.52	46.00	-6.48
4	2.371	39.42	46.00	-6.58
5	2.214	39.37	46.00	-6.63
6	2.514	39.23	46.00	-6.77
7	2.286	39.18	46.00	-6.82
8	1.981	38.67	46.00	-7.33
9	2.679	38.53	46.00	-7.47
10	2.055	38.42	46.00	-7.58
11	1.908	38.19	46.00	-7.81
12	2.596	37.99	46.00	-8.01
13	1.830	37.98	46.00	-8.02
14	1.754	37.95	46.00	-8.05
15	1.528	37.85	46.00	-8.15
16	2.449	37.67	46.00	-8.33
17	1.680	37.66	46.00	-8.34
18	1.374	37.62	46.00	-8.38
19	2.751	37.14	46.00	-8.86
20	1.603	37.01	46.00	-8.99
21	0.457	37.65	46.76	-9.11
22	0.229	43.27	52.48	-9.21
23	0.305	40.66	50.10	-9.44
24	1.223	36.38	46.00	-9.62
25	0.990	36.37	46.00	-9.63
26	0.839	35.61	46.00	-10.39
27	1.148	35.51	46.00	-10.49
28	1.449	35.43	46.00	-10.57
29	0.759	35.14	46.00	-10.86
30	0.608	34.96	46.00	-11.04
31	1.297	34.91	46.00	-11.09
32	1.066	33.15	46.00	-12.85
33	0.686	32.84	46.00	-13.16
34	0.914	29.60	46.00	-16.40
35	0.381	30.83	48.25	-17.42
36	0.530	27.60	46.00	-18.40
37	0.535	27.51	46.00	-18.49
38	1.184	24.41	46.00	-21.59
39	0.651	22.73	46.00	-23.27
40	0.739	22.50	46.00	-23.50
41	2.707	22.28	46.00	-23.72
42	2.554	22.28	46.00	-23.72
43	2.250	22.26	46.00	-23.74
44	1.106	22.25	46.00	-23.75
45	0.567	22.07	46.00	-23.93
46	2.100	21.93	46.00	-24.07
47	2.023	21.66	46.00	-24.34
48	1.869	21.49	46.00	-24.51

-20 dB BANDWIDTH

DATA SHEET



Date: 2.MAR.2012 10:49:58

-20 dB of the Fundamental

5 SECOND RULE

DATA SHEETS

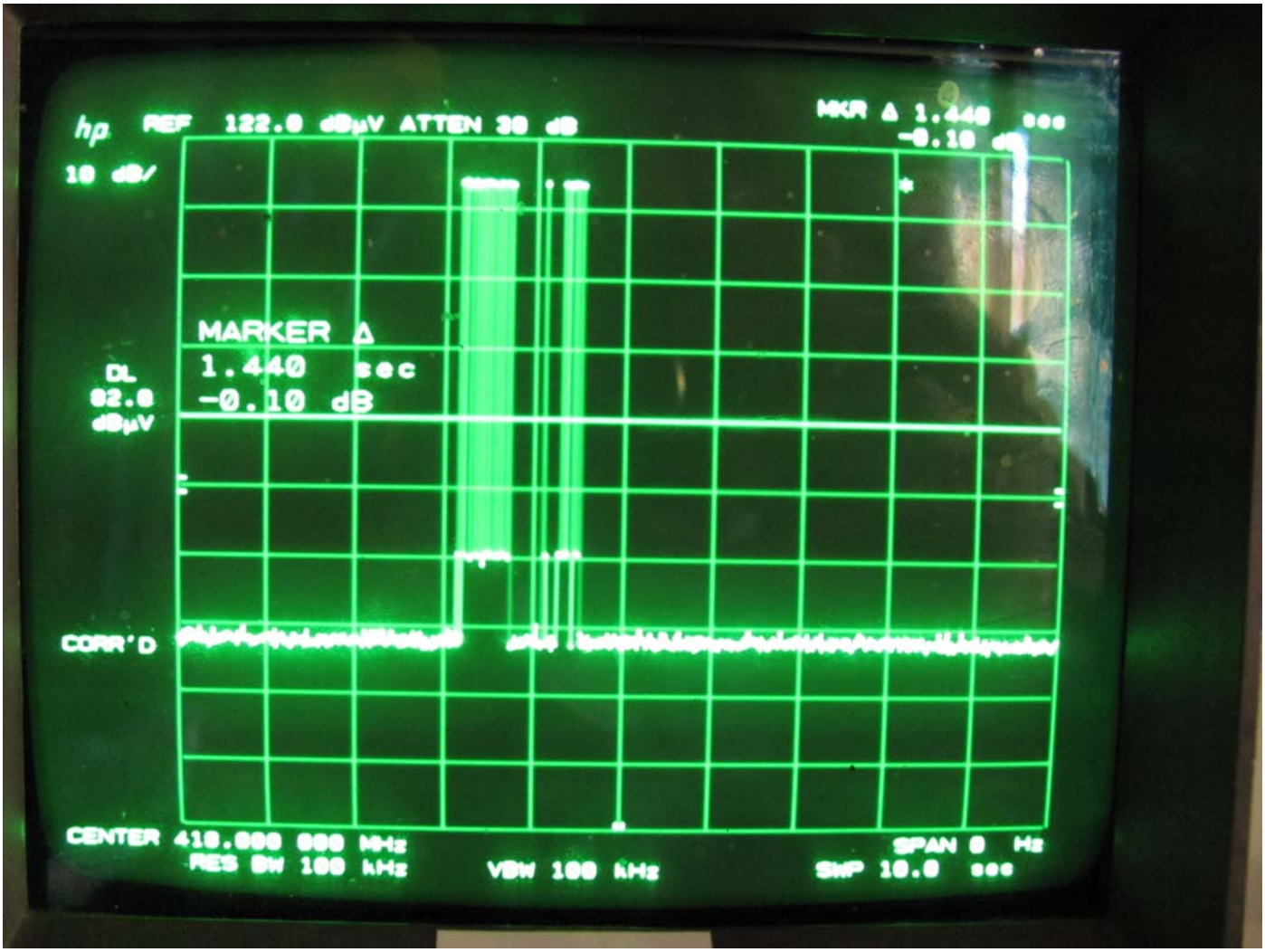


Photo showing the EUT turns off within 5 seconds of being activated.