FCC PART 15 SUBPART B and C
TEST REPORT

for

V-TAG

Model: VT200

Prepared for

INFINID TECHNOLOGIES INC.
ONE WEST MOUNTAIN SUITE 12
PASADENA, CALIFORNIA 91103

Prepared by:_____

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DATE: SEPTEMBER 26, 2013

	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:	V-TAG Model: VT200 S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified in order to meet the specifications.
Manufacturer:	InfinID Technologies Inc. One West Mountain Suite 12 Pasadena, California 91103
Test Date(s):	September 13, 16, and 30, 2013
Test Specifications:	Emissions requirements CFR Title 47, Part 15, Subpart B and Subpart C, Sections 15.205, 15.209, and 15.249
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	This test was not performed because the EUT operates on battery power and does not connect to the AC mains.
2	Radiated RF Emissions 10 kHz to 25000 MHz (Transmitter and Digital Portion)	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the V-TAG, Model: VT200 (EUT). The Emissions 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 portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The Emissions 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

InfinID Technologies Inc.

Barry Ambrose	Software Engineer

Compatible Electronics Inc.

Andrew Tiffany	Test Technician
James Ross	Test Engineer
Kyle Fujimoto	Test Engineer

2.4 Date Test Sample was Received

The test sample was received by Compatible Electonics, Inc. on September 11, 2013.

2.5 Disposition of the Test Sample

The test sample has not been returned to InfinID Technologies Inc. as of the date of the test 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
Ltd.	Limited
Inc.	Incorporated
NCR	No Calibration Required
ID	Identification
Tx	Transmit

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 V-TAG, Model: VT200 (EUT) was tested as a stand alone unit. Durng the tests, the EUT was continously transmitting. The EUT was tested in three orthogonal axis.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. 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

There were no external cables connected to the EUT.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
V-TAG (EUT)	INFINID TECHNOLOGIES INC.	VT200	N/A	Y8FVT200

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
GENERAL TEST EQUIPMENT USED IN LAB B					
EMI Receiver	Rohde & Schwarz	ESIB40	100194	November 19, 2012	2 Year
Computer	Compaq	CQ5210F	CNX9360CF9	N/A	N/A
Monitor	Hewlett Packard	HPs2031a	3CQ046N3MD	N/A	N/A
GENERAL TEST EQUIPMENT USED IN LAB A					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	2637A03618	May 30, 2013	1 Year
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A13404	May 30, 2013	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	May 30, 2013	1 Year
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
CombiLog Antenna	Com-Power	AC-220	61060	May 29, 2013	1 Year
Preamplifier	Com-Power	PA-103	1582	December 28, 2012	1 Year
Preamplifier	Com-Power	PA-118	181656	December 27, 2012	1 Year
Preamplifier	Com-Power	PA-840	711013	May 17, 2012	2 Year
Loop Antenna	Com-Power	AL-130	17089	January 29, 2013	2 Year
Horn Antenna	Com-Power	AH-118	071175	February 29, 2012	2 Year
Horn Antenna	Com-Power	AH-826	0071957	N/A	N/A
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

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:

This test was not performed because the EUT operates on battery power and does not connect to the AC mains.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer, along with the quasi-peak adapter, and EMI Receiver were used as a measuring meter. Amplifiers were used to increase the sensitivity of the instrument. The Com-Power Preamplifier Model: PA-103 was used for frequencies from 30 MHz to 1 GHz, the Com-Power Microwave Preamplifier Model: PA-118 was used for frequencies from 1 GHz to 18 GHz, and the Com-Power Microwave Preamplifier Model: PA-840 were used for frequencies above 18 GHz. The spectrum analyzer and EMI Receiver were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer and EMI Receiver records the highest measured reading over the sweeps.

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

The frequencies above 1 GHz were adjusted by a “duty cycle correction factor”, derived from 20 log (dwell time / 100 ms).

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 1000 MHz	120 kHz	CombiLog Antenna
1 GHz to 25 GHz	1 MHz	Horn Antennas

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 gun sight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the 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 from 30 MHz to 25 GHz and at a 10-meter distance from 10 kHz to 30 MHz 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 15.249.

7.1.3 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS
V-TAG, Model: VT200

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
2483.5 (V) (Z-Axis)	50.88 (A)	54.00	-3.12
2483.5 (H) (Y-Axis)	48.19 (A)	54.00	-5.81
4890 (H) (X-Axis)	43.64 (A)	54.00	-10.36
4960 (H) (X-Axis)	42.54 (A)	54.00	-11.48
4890 (H) (Y-Axis)	42.48 (A)	54.00	-11.52
4960 (H) (Y-Axis)	41.85 (A)	54.00	-12.15

Notes:
- * The complete emissions data is given in Appendix E of this report.
- (H) Horizontal
- (V) Vertical
- (A) Average
- (Pk) Peak

8. CONCLUSIONS

The V-TAG, Model: VT200 (EUT), as tested, meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 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 fulfillment 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 15.249 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 modifications were made to the EUT during the testing.

APPENDIX C

ADDITIONAL MODELS

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST	V-TAG Model: VT200 S/N: N/A
ADDITIONAL MODELS COVERED:	The following models are considered by the manufacturer to be similar to the sample tested, however the test results contained in this report relate only to the sample tested.

There were no additional models covered under this test report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

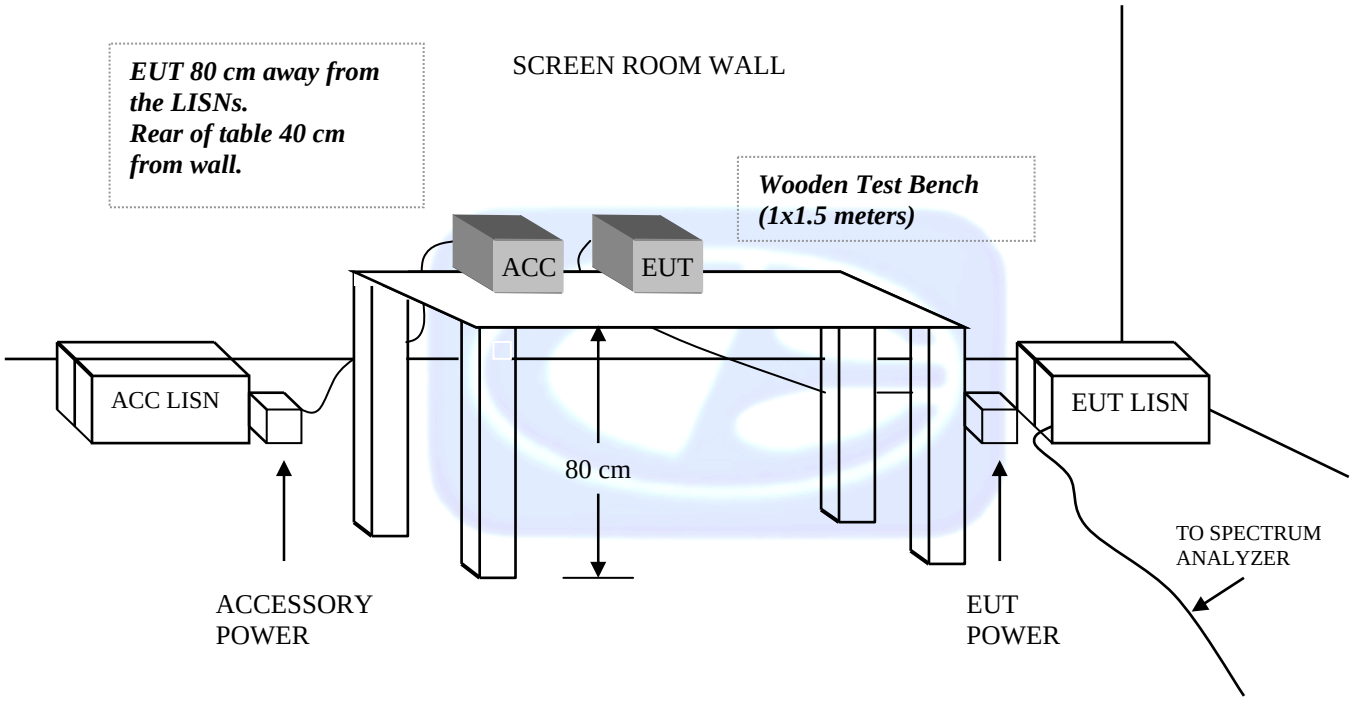
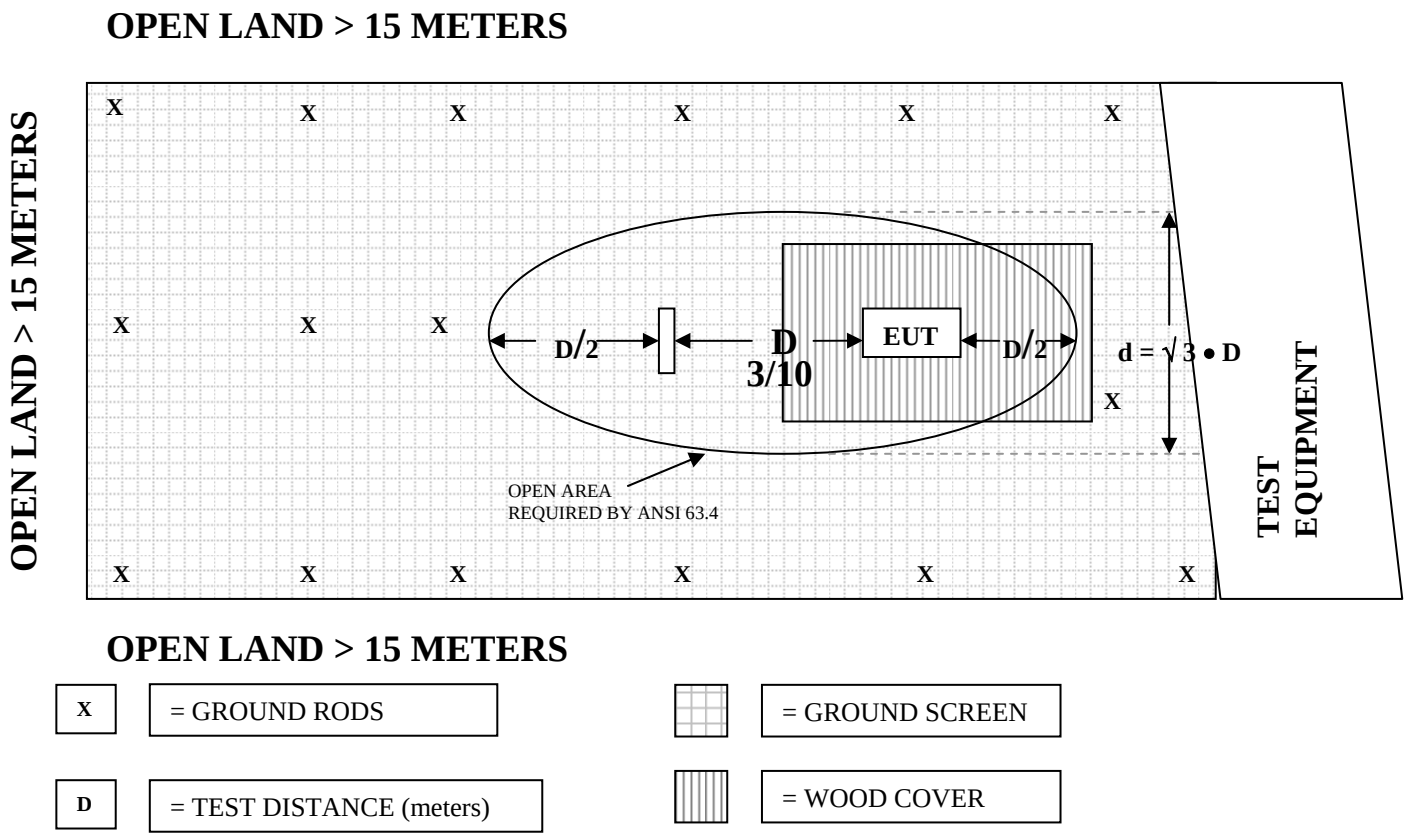


FIGURE 2: PLOT MAP AND LAYOUT OF THE RADIATED TEST SITE



COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: JANUARY 29, 2013

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-42.5	9
0.01	-42.3	9.2
0.02	-42.1	9.4
0.03	-41.4	10.1
0.04	-41.8	9.7
0.05	-42.4	9.1
0.06	-42.3	9.2
0.07	-42.5	9
0.08	-42.4	9.1
0.09	-42.5	9
0.1	-42.5	9
0.2	-42.7	8.8
0.3	-42.6	8.9
0.4	-42.5	9
0.5	-42.7	8.8
0.6	-42.7	8.8
0.7	-42.5	9
0.8	-42.3	9.2
0.9	-42.2	9.3
1	-42.2	9.3
2	-41.8	9.7
3	-41.7	9.8
4	-41.7	9.8
5	-41.5	10
6	-41.6	9.9
7	-41.4	10.1
8	-41	10.5
9	-40.8	10.7
10	-41.3	10.2
15	-41.4	10.1
20	-41.2	10.3
25	-42.6	8.9
30	-41.7	9.8

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: MAY 29, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	19.40	200	9.10
35	19.10	250	11.40
40	19.70	300	11.90
45	18.00	350	14.20
50	16.80	400	15.20
60	12.50	450	16.50
70	7.30	500	17.10
80	4.40	550	16.20
90	8.00	600	17.70
100	8.80	650	19.10
120	10.50	700	20.00
125	10.60	750	21.50
140	8.60	800	21.50
150	11.20	850	21.70
160	8.90	900	22.70
175	9.60	950	22.10
180	8.50	1000	22.90

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 29, 2012

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	23.6	10.0	37.7
1.5	22.0	10.5	38.4
2.0	28.7	11.0	38.0
2.5	29.3	11.5	38.2
3.0	30.6	12.0	39.0
3.5	30.4	12.5	42.4
4.0	31.1	13.0	40.8
4.5	33.4	13.5	40.0
5.0	35.3	14.0	39.7
5.5	35.1	14.5	43.5
6.0	36.9	15.0	42.7
6.5	37.4	15.5	39.7
7.0	37.6	16.0	39.2
7.5	36.2	16.5	39.7
8.0	38.4	17.0	42.2
8.5	39.3	17.5	47.6
9.0	37.4	18.0	51.2
9.5	38.0		

COM-POWER AH826

HORN ANTENNA

S/N: 71957

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7

COM-POWER PA-103

PREAMPLIFIER

S/N: 1582

CALIBRATION DATE: DECEMBER 28, 2012

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	32.80	300	32.26
40	33.10	350	32.23
50	33.10	400	32.17
60	33.10	450	32.16
70	33.00	500	32.11
80	33.00	550	32.07
90	33.10	600	32.02
100	33.00	650	31.97
125	33.00	700	31.87
150	33.00	750	31.81
175	32.90	800	31.73
200	32.80	850	31.57
225	32.34	900	31.43
250	32.32	950	31.29
275	32.28	1000	31.14

COM-POWER PA-118

PREAMPLIFIER

S/N: 181656

CALIBRATION DATE: DECEMBER 27, 2012

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
0.50	25.29	6.00	25.75
0.60	25.26	6.50	25.28
0.70	25.23	7.00	24.83
0.80	25.13	7.50	24.49
0.90	24.91	8.00	24.38
1.00	24.68	8.50	25.06
1.25	25.85	9.00	25.55
1.50	26.23	9.50	25.32
1.75	26.42	10.0	25.25
2.00	26.48	10.5	25.31
2.25	26.55	11.0	24.99
2.50	26.59	11.5	24.84
2.75	26.64	12.0	25.08
3.00	26.67	12.5	24.64
3.25	26.67	13.0	24.44
3.50	26.66	13.5	24.85
3.75	26.58	14.0	25.02
4.00	26.82	14.5	25.41
4.25	26.60	15.0	26.12
4.50	26.46	15.5	26.74
4.75	26.36	16.0	25.67
5.00	26.22	16.5	24.48
5.25	26.11	17.0	24.33
5.50	25.98	17.5	25.19
5.75	25.90	18.0	26.75

COM-POWER PA-840

MICROWAVE PREAMPLIFIER

S/N: 711013

CALIBRATION DATE: MAY 17, 2012

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.81	31.0	25.77
19.0	24.57	31.5	25.36
20.0	23.46	32.0	25.15
21.0	22.51	32.5	25.13
22.0	23.85	33.0	25.52
23.0	23.31	33.5	25.24
24.0	24.44	34.0	25.08
25.0	25.42	34.5	25.27
26.0	25.71	35.0	23.99
26.5	25.66	35.5	24.67
27.0	25.84	36.5	24.80
27.5	25.29	37.0	26.27
28.0	25.46	37.5	24.86
28.5	25.58	38.0	24.64
29.0	26.16	38.5	23.46
29.5	26.14	39.0	21.29
30.0	26.01	39.5	20.83
30.5	25.67	40.0	19.96

(10 kHz to 30MHz)

INFINID TECHNOLOGIES INC.
V-TAG
MODEL: VT200
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

(30 MHz to 1000 MHz)

VIEW 1

INFINID TECHNOLOGIES INC.
V-TAG
MODEL: VT200
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

(30 MHz to 1000 MHz)

VIEW 2

INFINID TECHNOLOGIES INC.
V-TAG
MODEL: VT200
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

(1 GHz to 25 GHz)

VIEW 1

INFINID TECHNOLOGIES INC.
V-TAG
MODEL: VT200
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

(1 GHz to 25 GHz)

VIEW 2

INFINID TECHNOLOGIES INC.
V-TAG
MODEL: VT200
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Fundamental Low Channel
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	90.41	V	114	-23.59	Peak	1.25	155	X-Axis
2405	70.41	V	94	-23.59	Avg	1.25	155	X-Axis
2405	90.15	V	114	-23.85	Peak	1.5	225	Y-Axis
2405	70.15	V	94	-23.85	Avg	1.5	225	Y-Axis
2405	96.06	V	114	-17.94	Peak	1	135	Z-Axis
2405	76.06	V	94	-17.94	Avg	1	135	Z-Axis
2405	95.03	H	114	-18.97	Peak	1	135	X-Axis
2405	75.03	H	94	-18.97	Avg	1	135	X-Axis
2405	97.08	H	114	-16.92	Peak	1.25	0	Y-Axis
2405	77.08	H	94	-16.92	Avg	1.25	0	Y-Axis
2405	89.66	H	114	-24.34	Peak	1.25	255	Z-Axis
2405	69.66	H	94	-24.34	Avg	1.25	255	Z-Axis

FCC 15.249

InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Fundamental Middle Channel
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2445	91.56	V	114	-22.44	Peak	1.25	155	**X-Axis**
2445	71.56	V	94	-22.44	Avg	1.25	155	**X-Axis**
2445	91.21	V	114	-22.79	Peak	1.25	225	**Y-Axis**
2445	71.21	V	94	-22.79	Avg	1.25	225	**Y-Axis**
2445	96.79	V	114	-17.21	Peak	1.25	180	**Z-Axis**
2445	76.79	V	94	-17.21	Avg	1.25	180	**Z-Axis**
2445	95.79	H	114	-18.21	Peak	1.25	125	**X-Axis**
2445	75.79	H	94	-18.21	Avg	1.25	125	**X-Axis**
2445	97.91	H	114	-16.09	Peak	1.25	135	**Y-Axis**
2445	77.91	H	94	-16.09	Avg	1.25	135	**Y-Axis**
2445	89.85	H	114	-24.15	Peak	1.25	165	**Z-Axis**
2445	69.85	H	94	-24.15	Avg	1.25	165	**Z-Axis**

FCC 15.249

InfinID Technologies Inc.
V-TAG
Model: VT200

Dates: 09/13/2013 and 09/30/2013
Lab: B
Tested By: Kyle Fujimoto

Fundamental High Channel
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	91.02	V	114	-22.98	Peak	1.25	155	**X-Axis**
2480	71.02	V	94	-22.98	Avg	1.25	155	**X-Axis**
2480	93	V	114	-21	Peak	1.5	225	**Y-Axis**
2440	73	V	94	-21	Avg	1.5	225	**Y-Axis**
2480	98.18	V	114	-15.82	Peak	1.5	135	**Z-Axis**
2480	78.18	V	94	-15.82	Avg	1.5	135	**Z-Axis**
2480	96.54	H	114	-17.46	Peak	1.25	225	**X-Axis**
2480	76.54	H	94	-17.46	Avg	1.25	225	**X-Axis**
2480	97.94	H	114	-16.06	Peak	1.25	180	**Y-Axis**
2480	77.94	H	94	-16.06	Avg	1.25	180	**Y-Axis**
2480	92.39	H	114	-21.61	Peak	1.25	180	**Z-Axis**
2480	72.39	H	94	-21.61	Avg	1.25	180	**Z-Axis**

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	57.23	V	74	-16.77	Peak	1.25	90	
4810	37.23	V	54	-16.77	Avg	1.25	90	
7215	55.37	V	74	-18.63	Peak	1.25	45	
7215	35.37	V	54	-18.63	Avg	1.25	45	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	59.79	V	74	-14.21	Peak	1.25	155	
4810	39.79	V	54	-14.21	Avg	1.25	155	
7215	57.07	V	74	-16.93	Peak	1.25	145	
7215	37.07	V	54	-16.93	Avg	1.25	145	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC 15.249

InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	59.41	V	74	-14.59	Peak	1.25	125	
4810	39.41	V	54	-14.59	Avg	1.25	125	
7215	58.25	V	74	-15.75	Peak	1.25	155	
7215	38.25	V	54	-15.75	Avg	1.25	155	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	61.01	H	74	-12.99	Peak	1.25	135	
4810	41.01	H	54	-12.99	Avg	1.25	135	
7215	56.32	H	74	-17.68	Peak	1.25	145	
7215	36.32	H	54	-17.68	Avg	1.25	145	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	60.51	H	74	-13.49	Peak	1.25	225	
4810	40.51	H	54	-13.49	Avg	1.25	225	
7215	55.31	H	74	-18.69	Peak	1.25	155	
7215	35.31	H	54	-18.69	Avg	1.25	155	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	52.91	H	74	-21.09	Peak	1.25	155	
4810	32.91	H	54	-21.09	Avg	1.25	155	
7215	53.05	H	74	-20.95	Peak	1.35	165	
7215	33.05	H	54	-20.95	Avg	1.35	165	
9620								No Emission
9620								Detected
12025								No Emission
12025								Detected
14430								No Emission
14430								Detected
16835								No Emission
16835								Detected
19240								No Emission
19240								Detected
21645								No Emission
21645								Detected
24050								No Emission
24050								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - MIddle Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	57.96	V	74	-16.04	Peak	1.25	225	
4890	37.96	V	54	-16.04	Avg	1.25	225	
7335	56.73	V	74	-17.27	Peak	1.25	155	
7335	36.73	V	54	-17.27	Avg	1.25	155	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics -Middle Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	60.81	V	74	-13.19	Peak	1.25	155	
4890	40.81	V	54	-13.19	Avg	1.25	155	
7335	54.31	V	74	-19.69	Peak	1.25	165	
7335	34.31	V	54	-19.69	Avg	1.25	165	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics -Middle Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	59.61	V	74	-14.39	Peak	1.25	155	
4890	39.61	V	54	-14.39	Avg	1.25	155	
7335	53.91	V	74	-20.09	Peak	1.35	155	
7335	33.91	V	54	-20.09	Avg	1.35	155	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics -Middle Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	63.64	H	74	-10.36	Peak	1.25	135	
4890	43.64	H	54	-10.36	Avg	1.25	135	
7335	55.84	H	74	-18.16	Peak	1.25	135	
7335	35.84	H	54	-18.16	Avg	1.25	135	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics -Middle Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	62.48	H	74	-11.52	Peak	1.25	155	
4890	42.48	H	54	-11.52	Avg	1.25	155	
7335	55.74	H	74	-18.26	Peak	1.25	165	
7335	35.74	H	54	-18.26	Avg	1.25	165	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics -Middle Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4890	60.55	H	74	-13.45	Peak	1.25	155	
4890	40.55	H	54	-13.45	Avg	1.25	155	
7335	54.78	H	74	-19.22	Peak	1.35	165	
7335	34.78	H	54	-19.22	Avg	1.35	165	
9780								No Emission
9780								Detected
12225								No Emission
12225								Detected
14670								No Emission
14670								Detected
17115								No Emission
17115								Detected
19560								No Emission
19560								Detected
22005								No Emission
22005								Detected
24450								No Emission
24450								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	59.38	V	74	-14.62	Peak	1.25	180	
4960	39.38	V	54	-14.62	Avg	1.25	180	
7440	54.22	V	74	-19.78	Peak	1.25	185	
7440	34.22	V	54	-19.78	Avg	1.25	185	
9920								No Emission
9920								Detected
12400								No Emission
12400								Detected
14880								No Emission
14880								Detected
17360								No Emission
17360								Detected
19840								No Emission
19840								Detected
22320								No Emission
22320								Detected
24800								No Emission
24800								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	59.08	V	74	-14.92	Peak	1.25	225	
4960	39.08	V	54	-14.92	Avg	1.25	225	
7440	55.01	V	74	-18.99	Peak	1.25	155	
7440	35.01	V	54	-18.99	Avg	1.25	155	
9920								No Emission
9920								Detected
12400								No Emission
12400								Detected
14880								No Emission
14880								Detected
17360								No Emission
17360								Detected
19840								No Emission
19840								Detected
22320								No Emission
22320								Detected
24800								No Emission
24800								Detected

FCC **15.249**
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	60.04	V	74	-13.96	Peak	1.25	155	
4960	40.04	V	54	-13.96	Avg	1.25	155	
7440	52.05	V	74	-21.95	Peak	1.25	165	
7440	32.05	V	54	-21.95	Avg	1.25	165	
9920								No Emission
9920								Detected
12400								No Emission
12400								Detected
14880								No Emission
14880								Detected
17360								No Emission
17360								Detected
19840								No Emission
19840								Detected
22320								No Emission
22320								Detected
24800								No Emission
24800								Detected

FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	62.52	H	74	-11.48	Peak	1.25	155	
4960	42.52	H	54	-11.48	Avg	1.25	155	
7440	58.32	H	74	-15.68	Peak	1.25	155	
7440	38.32	H	54	-15.68	Avg	1.25	155	
9920								No Emission
9920								Detected
12400								No Emission
12400								Detected
14880								No Emission
14880								Detected
17360								No Emission
17360								Detected
19840								No Emission
19840								Detected
22320								No Emission
22320								Detected
24800								No Emission
24800								Detected

FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	61.85	H	74	-12.15	Peak	1.25	225	
4960	41.85	H	54	-12.15	Avg	1.25	225	
7440	52.44	H	74	-21.56	Peak	1.25	155	
7440	32.44	H	54	-21.56	Avg	1.25	155	
9920								No Emission
9920								Detected
12400								No Emission
12400								Detected
14880								No Emission
14880								Detected
17360								No Emission
17360								Detected
19840								No Emission
19840								Detected
22320								No Emission
22320								Detected
24800								No Emission
24800								Detected

FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Harmonics - High Channel - Z-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4960	57.15	H	74	-16.85	Peak	1.25	155	
4960	37.15	H	54	-16.85	Avg	1.25	155	
7440	54.32	H	74	-19.68	Peak	1.35	145	
7440	34.32	H	54	-19.68	Avg	1.35	145	
9920								**No Emission**
9920								**Detected**
12400								**No Emission**
12400								**Detected**
14880								**No Emission**
14880								**Detected**
17360								**No Emission**
17360								**Detected**
19840								**No Emission**
19840								**Detected**
22320								**No Emission**
22320								**Detected**
24800								**No Emission**
24800								**Detected**

FCC 15.249 / FCC Class B
InfinID Technologies Inc.
V-TAG
Model: VT200

Dates: 09/13/2013 & 09/16/2013
Labs: A and B
Tested By: Kyle Fujimoto & Andrew Tiffany

Non Harmonic Emissions from the Tx and Digital Portion 10 kHz to 25 GHz
Vertical and Horizontal Polarization

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Found for the
								Digital Portion
								from 10 kHz to 25 GHz
								for both Vertical and Horizontal
								Polarizations
								No Non Harmonic
								Emissions Found
								for the Tx Mode
								from 10 kHz to 25 GHz
								for both Vertical and Horizontal
								Polarizations
								Investigated in the
								X, Y, and Z Axis

BAND EDGES

DATA SHEETS

FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Dates: 09/13/2013 and 09/30/2013
Lab: B
Tested By: Kyle Fujimoto

Low Channel - 2405 MHz
High Channel - 2480 MHz
Band Edges - Vertical Polarization

Z-Axis (Worst Case) - Low Channel
Z-Axis (Worst Case) - High Channel

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	96.06	V	114	-17.94	Peak	1	135	Fundamental of Low Channel
2405	76.06	V	94	-17.94	Avg	1	135	@ 3 meters
2400	57.83	V	74	-16.17	Peak	1	135	**No** Marker Delta Method
2400	37.83	V	54	-16.17	Peak	1	135	Method Used
2480	98.18	V	114	-15.82	Peak	1.5	135	Fundamental of High Channel
2480	78.18	V	94	-15.82	Avg	1.5	135	@ 3 meters
2483.5	70.88	V	74	-3.12	Peak	1.5	135	**No** Marker Delta Method
2483.5	50.88	V	54	-3.12	Peak	1.5	135	Method Used

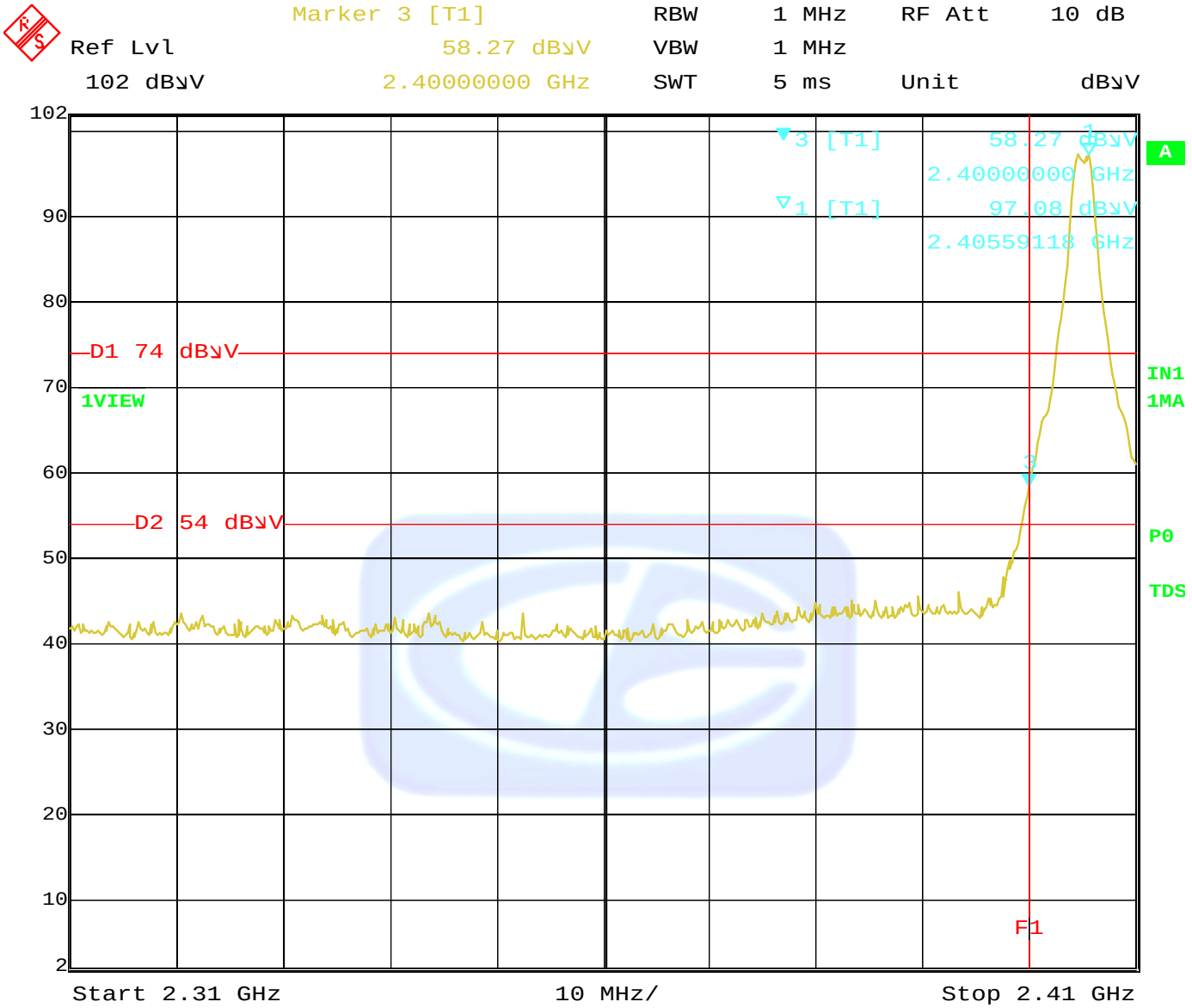
FCC 15.249
InfinID Technologies Inc.
V-TAG
Model: VT200

Date: 09/13/2013
Lab: B
Tested By: Kyle Fujimoto

Low Channel - 2405 MHz
High Channel - 2480 MHz
Band Edges - Vertical Polarization

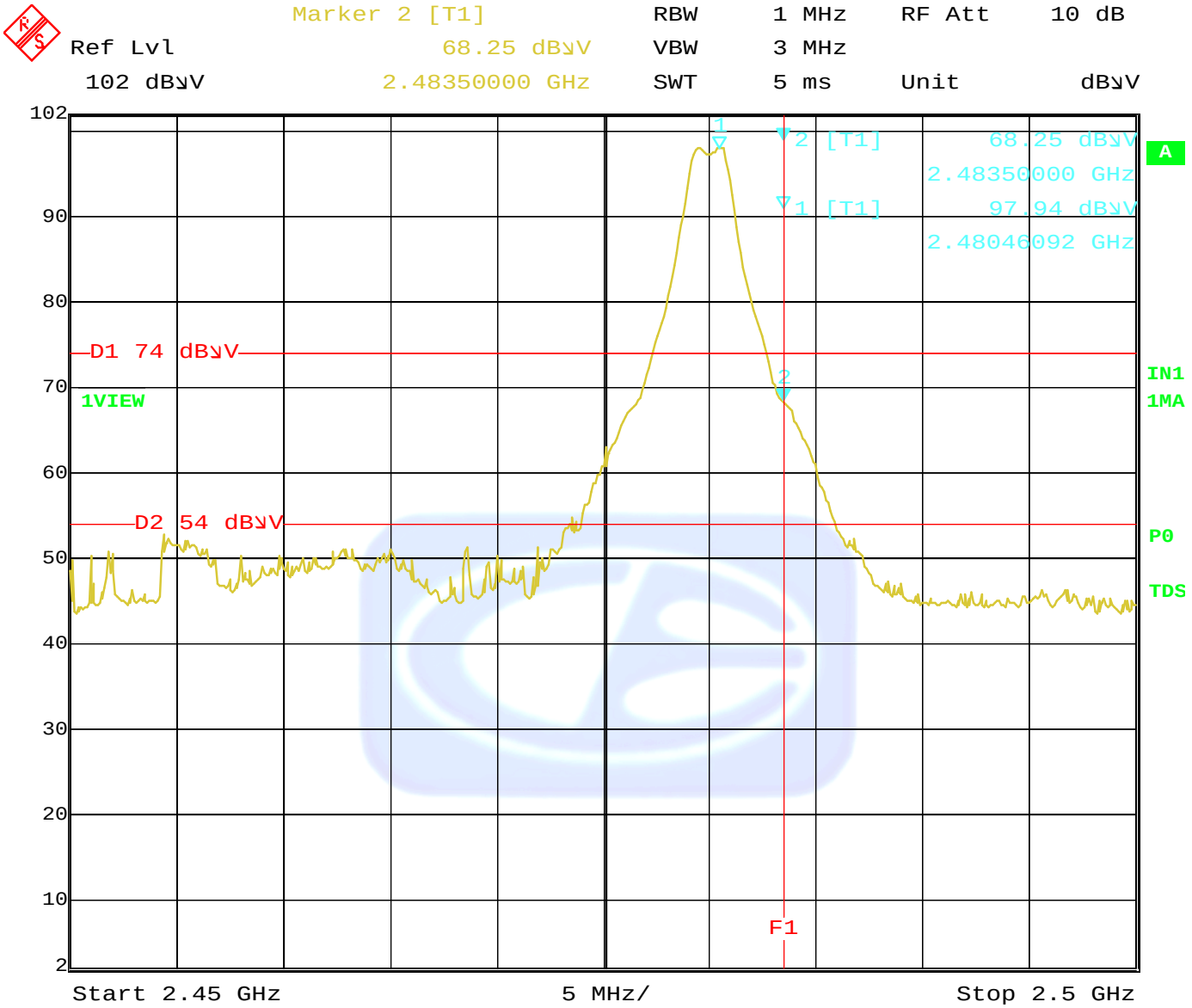
Y-Axis (Worst Case) - Low Channel
Y-Axis (Worst Case) - High Channel

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	97.08	H	114	-16.92	Peak	1.25	0	Fundamental of Low Channel
2405	77.08	H	94	-16.92	Avg	1.25	0	@ 3 meters
2400	58.27	H	74	-15.73	Peak	1.25	0	**No** Marker Delta Method
2400	38.27	H	54	-15.73	Peak	1.25	0	Method Used
2480	97.94	H	114	-16.06	Peak	1.25	180	Fundamental of High Channel
2480	77.94	H	94	-16.06	Avg	1.25	180	@ 3 meters
2483.5	68.25	H	74	-5.75	Peak	1.25	180	**No** Marker Delta Method
2483.5	48.25	H	54	-5.75	Peak	1.25	180	Method Used



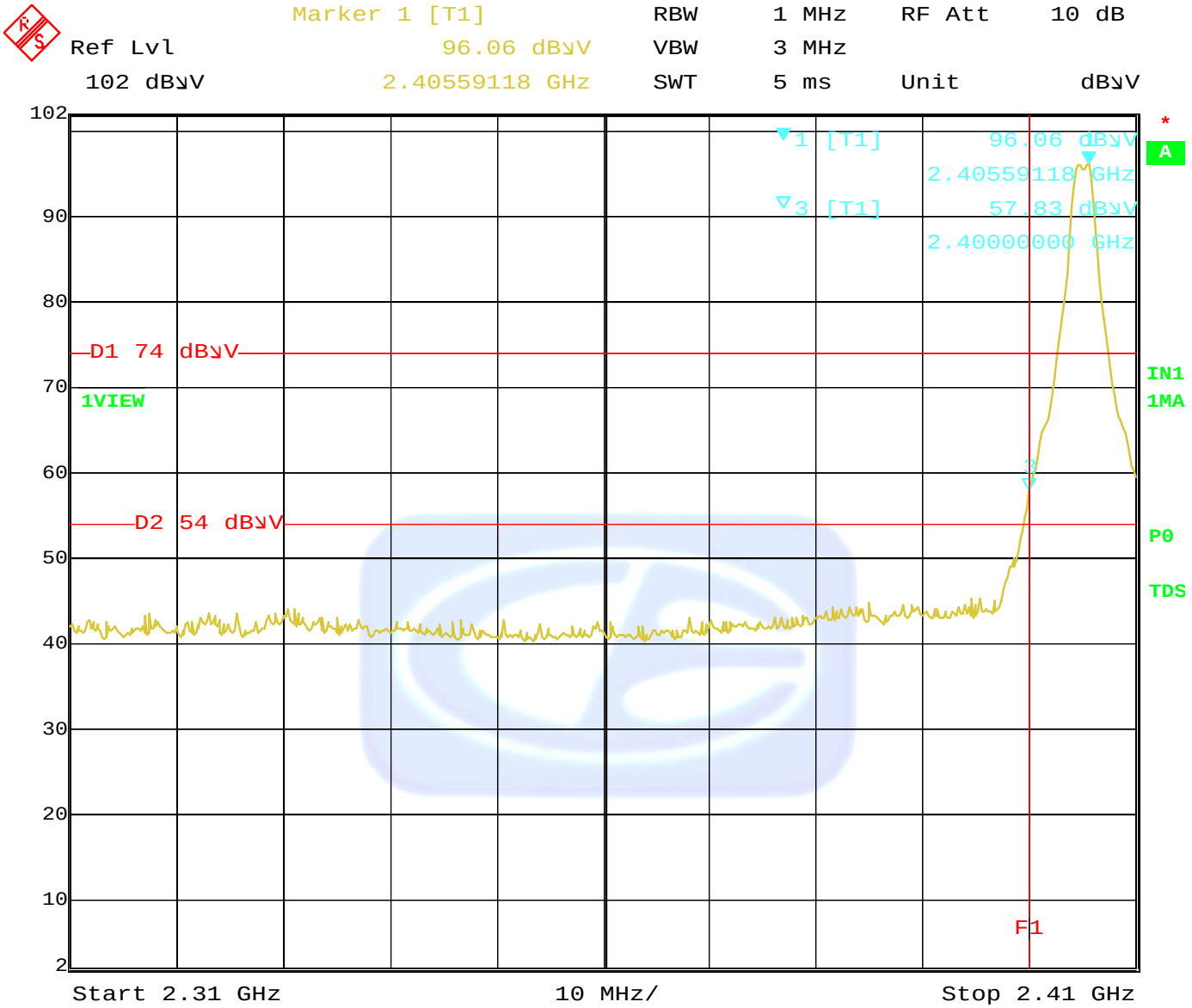
Date: 13.SEP.2013 09:02:05

Band Edge – Low Channel – Horizontal Polarization – Y-Axis Worst Case



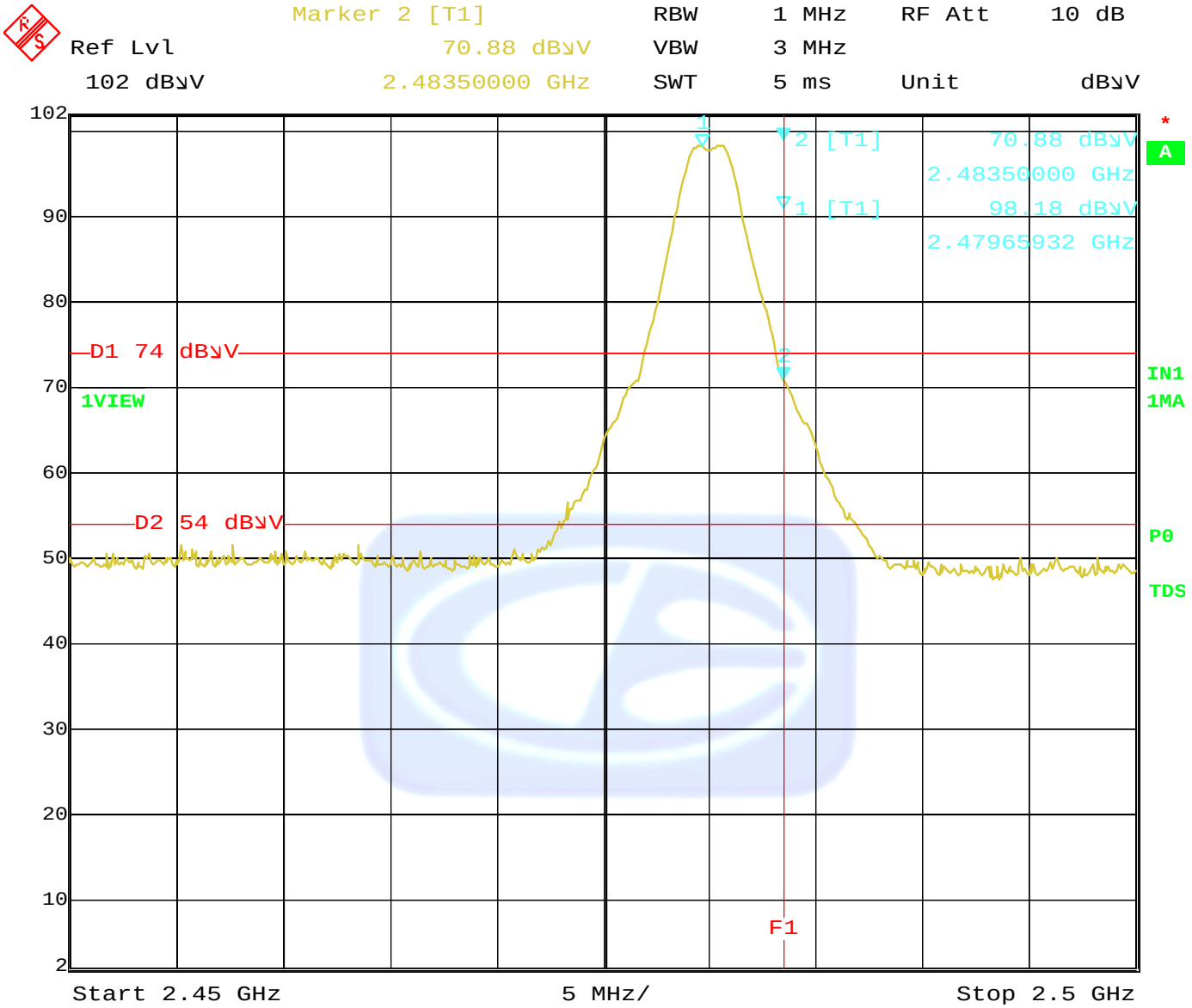
Date: 13.SEP.2013 10:49:58

Band Edge – High Channel – Horizontal Polarization – Y-Axis Worst Case



Date: 13.SEP.2013 08:41:06

Band Edge – Low Channel – Vertical Polarization – Z-Axis Worst Case



Date: 30.SEP.2013 14:15:47

Band Edge – High Channel – Vertical Polarization – Z-Axis Worst Case