FCC PART 15, SUBPART B and C
TEST REPORT

for

WI-DRIVE

MODEL: WID11GEN

Prepared for

DENSION AUDIO SYSTEMS
SZTREGOVA u. 1.
BUDAPEST, HUNGARY, H-1116

Prepared by:_____

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DATE: FEBRUARY 11, 2010

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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., 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 or any other agency of the U.S. Government.

Device Tested:	Wi-Drive Model: WID11GEN S/N: N/A
Product Description:	See Expository Statement.
Modifications:	There were no modifications made to the EUT during the testing.
Manufacturer:	Dension Audio Systems Sztregova u. 1. Budapest, Hungary, H-1116
Test Dates:	January 25, 26, 28; and February 8 and 17, 2010
Test Specifications:	EMI requirements CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247
Test Procedure:	ANSI C63.4: 2003
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 – 30 MHz	The EUT does not directly or indirectly connect to the AC mains, thus this test was not performed.
2	Spurious Radiated RF Emissions, 10 kHz – 25000 MHz	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.247(d) Highest reading in relation to spec limit: 42.58 dBuV @ 192.239 MHz (*U = 4.22 dB)
3	Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 25000 MHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d)
4	Emissions produced by the intentional radiator in restricted bands, 10 kHz – 25000 GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209(a), and section 15.247 (d)
5	6 dB Bandwidth	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(a)(2)
6	Peak Power Output	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(b)(3)
7	RF Conducted Antenna Test	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d)
8	Peak Power Spectral Density Conducted from the Intentional Radiator to the Antenna	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e)

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

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Wi-Drive, Model: WID11GEN. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. 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; and Subpart C, sections 15.205, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

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 92823.

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

Attila Szijj	Managing Director

Compatible Electronics Inc.

Kyle Fujimoto	Test Engineer
James Ross	Test Engineer

2.4 Date Test Sample was Received

The EUT was received on January 15, 2010.

2.5 Disposition of the Test Sample

The EUT has not been returned to Dension Audio Systems as of February 11, 2010.

2.6 Abbreviations and Acronyms

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

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
N/A	Not Applicable

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15 Subpart C	FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators
ANSI C63.4 2003	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
FCC Title 47, Part 15 Subpart B	FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The Wi-Drive, Model: WID11GEN (EUT) was connected as follows:

Wi-Drive, Model: WID11GEN	
Port Name	**Connected To**
USB Extension #1	Sandisk USB Flash Drive
USB Extension #2	Linksys Bluetooth Dongle
USB Storage	Hewlett Packard USB Flash Drive
Power	DC Power Supply
Car USB	Laptop
Antenna #1	Dash Board Antenna
Antenna #2	Whip Antenna (Direct Connection, no cable, Rx only)

The laptop was also connected to a floppy drive via its USB port.

Operating of the EUT:

Transmitter and Receiver Harmonics: The EUT was controlled by a program on the laptop that locked one channel at a time so that the low, middle, and high channels could be tested. This program also allowed the EUT to either be in transmit or receive mode.

All Other Tests: The EUT was continuously communicating with the laptop via an 802.11 g link.

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 both mode of operations mentioned above and any cables were maximized. All initial investigations were performed with the EMI 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 3-meter braid shielded cable connecting the EUT to the Sandisk USB Flash Drive. The cable has a USB type 'A' connector at each 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 2 This is a 3-meter braid shielded cable connecting the EUT to the Linksys Bluetooth Dongle. The cable has a USB type 'A' connector at each 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 3 This is a 3-meter braid shielded cable connecting the EUT to the Hewlett Packard USB Flash Drive. The cable has a USB type 'A' connector at each 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 This is a 2-meter cable connecting the EUT to the dashboard antenna. The cable has a reverse polarity SMA connector at the EUT end and is hard wired into the dashboard antenna. The cable was bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connectors.

Cable 5 This is a 20-centimeter cable connecting the EUT to the laptop. The cable has a type 'A' connector at the laptop end and is hard wired into the EUT. The shield of the cable was grounded to the chassis via the connector.

Cable 6 This is a 2-meter unshielded cable connecting the EUT to the DC power supply. The cable has a 4-pin power connector at the EUT end and is hard wired into the DC power supply.

Cable 7 This is a 1-meter braid shielded cable connecting the laptop to the USB floppy drive. The cable has a USB type 'A' connector at the laptop end and is hard wired into the USB floppy drive. The shield of the cable was grounded to the chassis via the connector.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
WI-DRIVE (EUT)	DENSION AUDIO SYSTEMS	WID11GEN	N/A	X6LWID11GEN
USB PORTABLE DISKETTE DRIVE	N/A	FD-05PUB	U356244	N/A
LAPTOP	HEWLETT PACKARD	G60-441US	2CE927RF3Q	DoC
USB FLASH DRIVE	SANDISK	SDCZ6-4096RB	N/A	N/A
USB FLASH DRIVE	HEWLETT PACKARD	N/A	NA	N/A
BLUETOOTH DONGLE	LINKSYS	USBBT100	LF2103B05178	Q87-USBBT100
DC POWER SUPPLY	FUHUA ELECTRONIC COMPANY LIMITED	UE20-120167PSA	N/A	N/A

5.2 EMI 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
EMI Receiver	Rohde & Schwarz	ESIB40	100194	September 17, 2008	Sept. 17, 2010
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 29, 2009	May 29, 2010
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A14530	May 29, 2009	May 29, 2010
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 29, 2009	May 29, 2010
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Biconical Antenna	Com Power	AB-900	15250	February 23, 2009	Feb. 23, 2010
Log Periodic Antenna	Com Power	AL-100	16060	June 15, 2009	June 15, 2010
Preamplifier	Com Power	PA-102	1017	January 6, 2010	Jan. 6, 2011
Loop Antenna	Com-Power	AL-130	17089	September 29, 2008	Sept. 29, 2010
Horn Antenna	Com-Power	AH-118	071175	June 27, 2008	June 27, 2010
Microwave Preamplifier	Com-Power	PA-122	181921	March 12, 2009	March 12, 2010
Microwave Preamplifier	Com-Power	PA-840	711013	March 12, 2009	March 12, 2010
Horn Antenna	Com-Power	AH826	71957	N.C.R.	N.C.R.
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

5.3 EMI Test Equipment (Continued)

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
RF POWER OUPUT TEST EQUIPMENT					
Power Measuring Analyzer	Boonton Electronics	4500A-01	1282	June 20, 2008	June 20, 2010
Peak Power Sensor	Boonton Electronics	57318	3723	June 25, 2008	June 25, 2010

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI 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 grounded to the chassis of the laptop via the shield of the USB connector.

7. CHARACTERISTICS OF THE TRANSMITTER

7.1 Channel Number and Frequencies

Channel 1 – 2412 MHz
Channel 2 – 2417 MHz
Channel 3 – 2422 MHz
Channel 4 – 2427 MHz
Channel 5 – 2432 MHz
Channel 6 – 2437 MHz
Channel 7 – 2442 MHz
Channel 8 – 2447 MHz
Channel 9 – 2452 MHz
Channel 10 – 2457 MHz
Channel 11 – 2462 MHz.

7.2 Antenna Gain

The antenna gain of the WiFi antenna is 2.14 dBi.

8. TEST PROCEDURES

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

8.1 RF Emissions

8.1.1 Conducted Emissions Test

The Spectrum Analyzer was used as a measuring meter. The data was collected with the EMI 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 Spectrum Analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the Spectrum Analyzer. 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: 2003. 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 EMI Receiver at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

The EUT does not directly or indirectly connect to the AC mains, thus this test was not performed

8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver and Spectrum Analyzer were used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. 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 record the highest measured reading over all the sweeps.

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

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 2 kHz (VBW > 1/T, with T=1.402806 mS) and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.

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 25 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: 2003. 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.

Radiated Emissions (Spurious and Harmonics) Test (con't)

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 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

8.2 6 dB Bandwidth

The 6 dB bandwidth was measured using the EMI Receiver. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

Test Results:

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (a)(2).

8.3 Peak Output Power

The Peak Output Power was taken using the power meter and power sensor. The EUT was directly connected to the power sensor, which was directly connected to the power meter. The Peak Output Power was then taken.

Test Results:

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (b)(3).

8.4 RF Antenna Conducted Test

The RF antenna conducted test was taken using the EMI Receiver. The RF antenna conducted test was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz. The spans were wide enough to include all the harmonics and emissions that were produced by the intentional radiator.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power that is produced by the intentional radiator is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. Please see the radiated emission data sheets located in Appendix E.

7.5 RF Band Edges

The RF band edges were taken at the edges of the ISM spectrum (2400 MHz when the EUT was on the low channel and 2483.5 MHz when the EUT was on the high channel) using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3-meter test distance. The radiated emissions test procedure as describe in section 8.2 of this test report was used to maximize the emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the band edges at 2400 MHz and 2483.5 MHz meet the requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). Please see the data sheets located in Appendix E.

8.6 Spectral Density Test

The spectral density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 3 kHz, and the video bandwidth was 10 kHz. The highest 8 MHz of the signal was used with the frequency span set at 10 MHz with the sweep rate being greater than 1 second for every 3 kHz of the frequency span.

Test Results:

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (e).

8. CONCLUSIONS

The Wi-Drive Model: WID11GEN meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.247 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 COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Wi-Drive
Model: WID11GEN
S/N: N/A

There were no additional models covered under this test report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

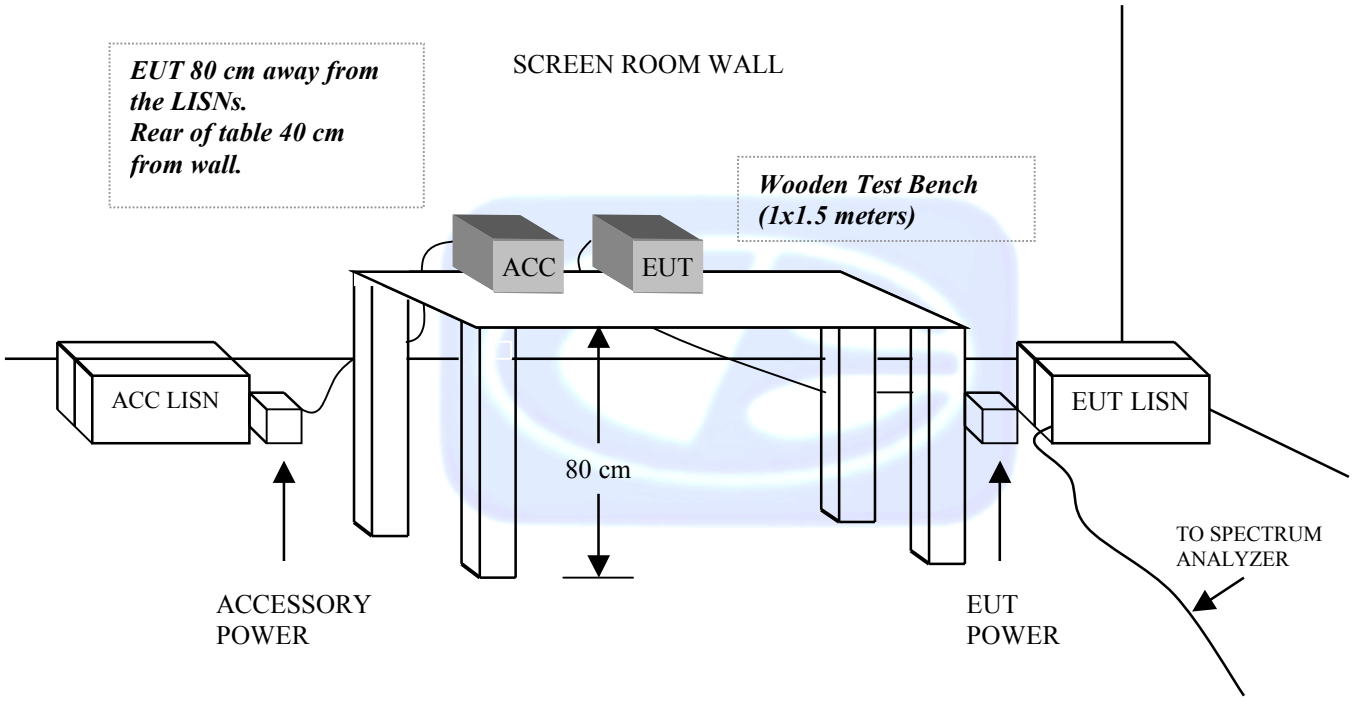
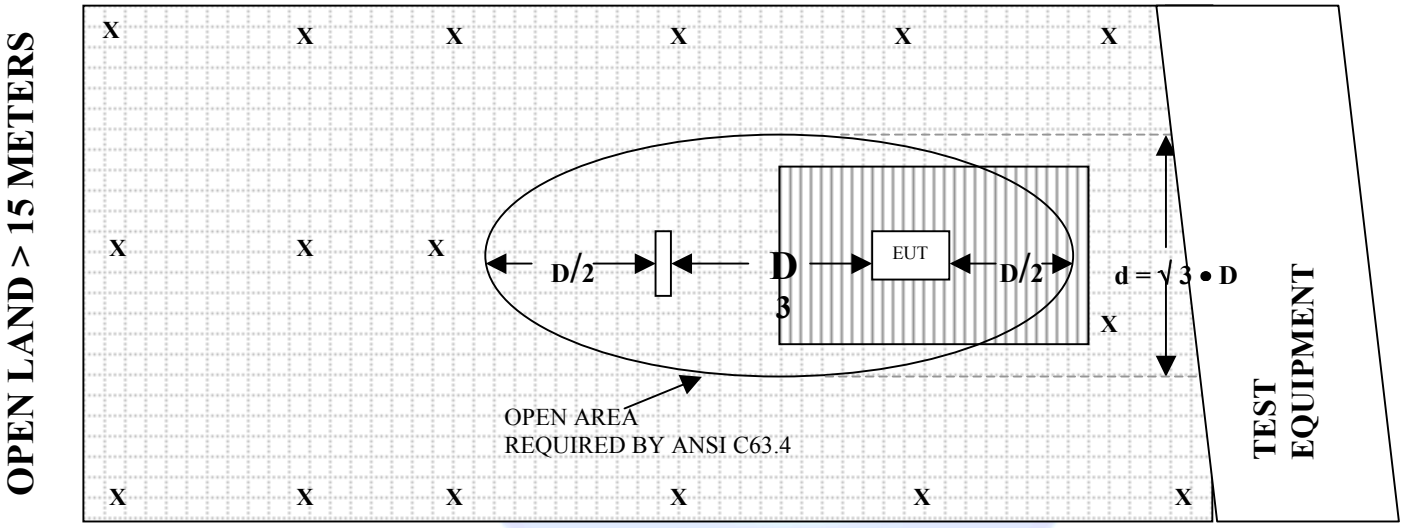


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS
	= GROUND SCREEN
D	= TEST DISTANCE (meters)
	= WOOD COVER

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15250

CALIBRATION DATE: FEBRUARY 23, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.0	100	11.1
35	11.1	120	13.6
40	10.2	140	12.4
45	11.2	160	12.9
50	11.6	180	16.5
60	9.1	200	17.0
70	8.4	250	16.3
80	6.2	275	18.2
90	8.5	300	17.9

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JUNE 15, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	14.2	700	20.1
400	15.9	800	21.2
500	17.1	900	21.3
600	18.8	1000	22.3

COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2010

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
20	38.0	300	38.2
30	38.3	350	38.1
40	38.4	400	38.5
50	38.2	450	38.0
60	38.2	500	37.9
70	38.3	550	38.2
80	38.1	600	38.2
90	38.2	650	37.7
100	38.3	700	38.3
125	38.2	750	38.3
150	38.3	800	37.4
175	38.3	850	37.5
200	38.1	900	37.6
225	38.2	950	37.4
250	38.3	1000	37.3
275	38.2		

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: JUNE 27, 2008

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.5	10.0	39.4
1.5	25.4	10.5	39.7
2.0	28.3	11.0	39.0
2.5	28.9	11.5	40.0
3.0	29.7	12.0	39.7
3.5	30.8	12.5	41.7
4.0	31.4	13.0	42.7
4.5	32.6	13.5	41.2
5.0	33.7	14.0	41.6
5.5	34.4	14.5	43.2
6.0	34.7	15.0	42.3
6.5	35.4	15.5	39.3
7.0	37.0	16.0	41.7
7.5	37.4	16.5	39.6
8.0	37.6	17.0	43.0
8.5	37.6	17.5	47.1
9.0	38.5	18.0	46.2
9.5	38.6		

COM-POWER PA-122

PREAMPLIFIER

S/N: 181921

CALIBRATION DATE: MARCH 12, 2009

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.46	10.0	35.06
1.5	35.36	10.5	34.82
2.0	34.76	11.0	33.12
2.5	34.94	11.5	34.33
3.0	34.59	12.0	34.75
3.5	34.55	12.5	33.94
4.0	34.25	13.0	35.50
4.5	33.89	13.5	34.89
5.0	34.22	14.0	36.56
5.5	34.81	14.5	36.06
6.0	35.74	15.0	36.67
6.5	36.51	15.5	36.84
7.0	36.66	16.0	34.31
7.5	35.72	16.5	35.11
8.0	33.28	17.0	35.35
8.5	33.11	17.5	34.11
9.0	34.71	18.0	33.88
9.5	35.50	18.5	32.20

COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: SEPTEMBER 29, 2008

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.57	9.93
0.01	-42.06	9.44
0.02	-42.43	9.07
0.05	-42.50	9.00
0.07	-42.10	9.40
0.1	-42.03	9.47
0.2	-44.50	7.00
0.3	-41.93	9.57
0.5	-41.90	9.60
0.7	-41.73	9.77
1	-41.23	10.27
2	-40.90	10.60
3	-41.20	10.30
4	-41.30	10.20
5	-40.70	10.80
10	-41.10	10.40
15	-42.17	9.33
20	-42.00	9.50
25	-42.20	9.30
30	-43.10	8.40

COM-POWER PA-840

PREAMPLIFIER-MICROWAVE

S/N: 711013

CALIBRATION DATE: MARCH 12, 2009

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.72	29.0	26.72
18.5	25.46	29.5	27.11
19.0	25.19	30.0	27.19
19.5	24.58	30.5	27.12
20.0	23.94	31.0	26.76
20.5	23.48	31.5	26.52
21.0	23.22	32.0	26.11
21.5	23.34	32.5	26.35
22.0	23.62	33.0	26.15
22.5	23.74	33.5	26.14
23.0	24.40	34.0	25.47
23.5	24.60	34.5	25.39
24.0	25.15	35.0	25.05
24.5	25.38	35.5	25.18
25.0	26.00	36.0	24.63
25.5	25.92	36.5	25.22
26.0	26.47	37.0	26.20
26.5	27.19	37.5	26.46
27.0	27.60	38.0	25.44
27.5	26.51	38.5	24.71
28.0	26.46	39.0	23.50
28.5	26.36	39.5	23.46

COM-POWER AH826

HORN ANTENNA

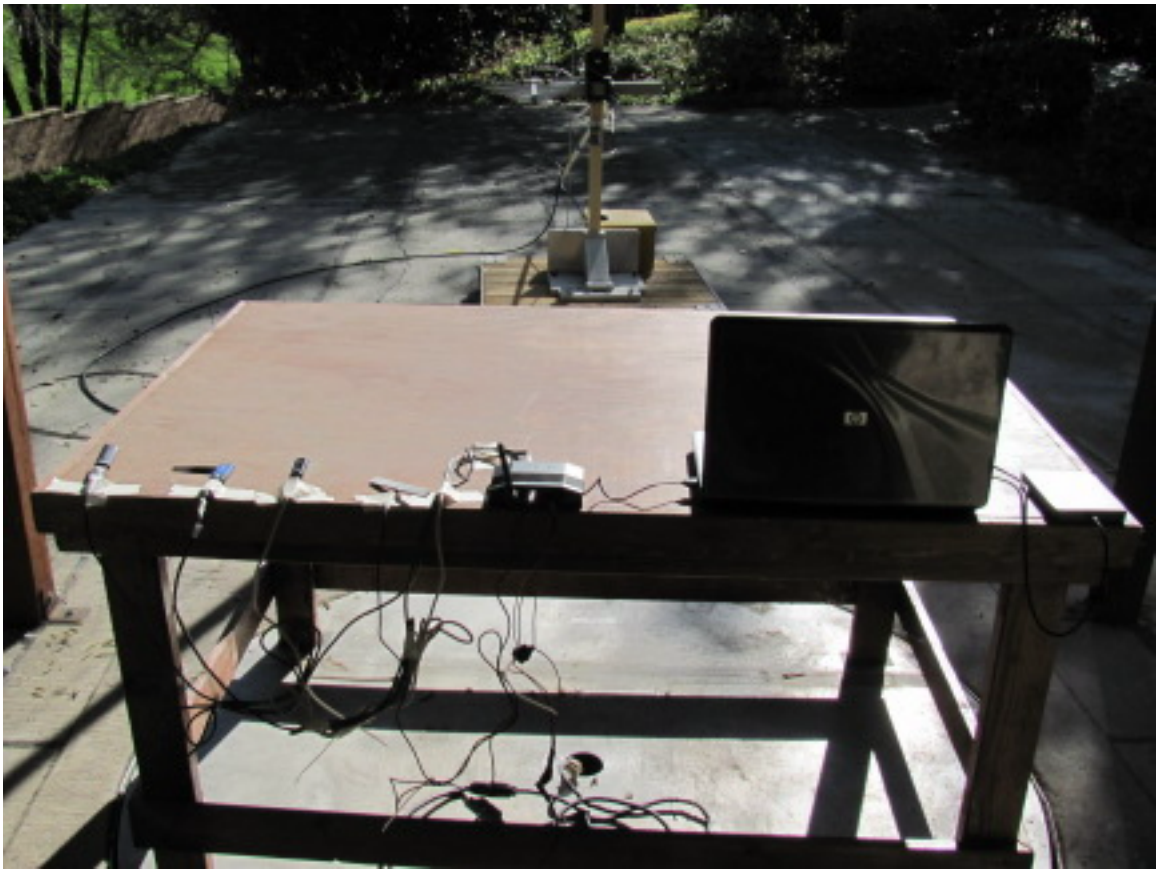
S/N: 71957

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

FRONT VIEW

DENSION AUDIO SYSTEMS
WI-DRIVE
MODEL: WID11GEN
FCC SUBPART B AND C – RADAITED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

DENSION AUDIO SYSTEMS
WI-DRIVE
MODEL: WID11GEN
FCC SUBPART B AND C – RADAITED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISISONS

DATA SHEETS

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 1 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	43.25	V	74	-30.75	Peak	1.25	135	
4824	29.79	V	54	-24.21	Avg	1.25	135	
7236	49.38	V	74	-24.62	Peak	1.35	155	
7236	36.26	V	54	-17.74	Avg	1.35	155	
9648	47.97	V	--	--	Peak	1.45	135	Not in Restricted Band
9648	36.59	V	--	--	Avg	1.45	135	Not in Restricted Band
12060	53.56	V	74	-20.44	Peak	1.25	95	
12060	40.91	V	54	-13.09	Avg	1.25	95	
14472								No Emissions
14472								Detected
14472								No Emissions
14472								Detected
19296								No Emissions
19296								Detected
21708								No Emissions
21708								Detected
24120								No Emissions
24120								Detected

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 1 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.94	H	74	-32.06	Peak	1.25	135	
4824	29.58	H	54	-24.42	Avg	1.25	135	
7236	47.73	H	74	-26.27	Peak	1.35	155	
7236	35.89	H	54	-18.11	Avg	1.35	155	
9648	48.63	H	--	--	Peak	1.45	135	Not in Restricted Band
9648	36.31	H	--	--	Avg	1.45	135	Not in Restricted Band
12060	53.96	H	74	-20.04	Peak	1.56	145	
12060	40.59	H	54	-13.41	Avg	1.56	145	
14472								No Emissions
14472								Detected
16884								No Emissions
16884								Detected
19296								No Emissions
19296								Detected
21708								No Emissions
21708								Detected
24120								No Emissions
24120								Detected

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	43.24	V	74	-30.76	Peak	1.25	155	
4874	30.29	V	54	-23.71	Avg	1.25	155	
7311	50.85	V	74	-23.15	Peak	1.35	155	
7311	36.41	V	54	-17.59	Avg	1.35	155	
9748	50.79	V	--	--	Peak	1.45	155	Not in Restricted Band
9748	36.55	V	--	--	Avg	1.45	155	Not in Restricted Band
12185	53.51	V	74	-20.49	Peak	1.25	135	
12185	41.48	V	54	-12.52	Avg	1.25	135	
14622								No Emissions
14622								Detected
17059								No Emissions
17059								Detected
19496								No Emissions
19496								Detected
21933								No Emissions
21933								Detected
22001								No Emissions
22001								Detected
24370								No Emissions
24370								Detected

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	42.86	H	74	-31.14	Peak	1.25	135	
4874	30.3	H	54	-23.7	Avg	1.25	135	
7311	48.25	H	74	-25.75	Peak	1.35	165	
7311	35.61	H	54	-18.39	Avg	1.35	165	
9748	48.99	H	--	--	Peak	1.58	175	Not in Restricted Band
9748	36.35	H	--	--	Avg	1.58	175	Not in Restricted Band
12185	53.78	H	74	-20.22	Peak	1.85	185	
12185	41.13	H	54	-12.87	Avg	1.85	185	
14622								No Emissions
14622								Detected
17059								No Emissions
17059								Detected
19496								No Emissions
19496								Detected
21933								No Emissions
21933								Detected
22001								No Emissions
22001								Detected
24370								No Emissions
24370								Detected

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 11 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	45.37	V	74	-28.63	Peak	1.25	135	
4924	30.95	V	54	-23.05	Avg	1.25	135	
7386	49.18	V	74	-24.82	Peak	1.25	175	
7386	36.02	V	54	-17.98	Avg	1.25	175	
9848	52.35	V	--	--	Peak	1.35	185	Not in Restricted Band
9848	36.51	V	--	--	Avg	1.35	185	Not in Restricted Band
12310	55.54	V	74	-18.46	Peak	1.25	135	
12310	43.38	V	54	-10.62	Avg	1.25	135	
14772								No Emissions
14772								Detected
17234								No Emissions
17234								Detected
19696								No Emissions
19696								Detected
22158								No Emissions
22158								Detected
24620								No Emissions
24620								Detected

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 11 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	43.87	H	74	-30.13	Peak	1.25	135	
4924	30.91	H	54	-23.09	Avg	1.25	135	
7386	47.38	H	74	-26.62	Peak	1.35	155	
7386	35.47	H	54	-18.53	Avg	1.35	155	
9848	54.09	H	--	--	Peak	1.25	155	Not in Restricted Band
9848	37.22	H	--	--	Avg	1.25	155	Not in Restricted Band
12310	55.75	H	74	-18.25	Peak	1.35	155	
12310	43.24	H	54	-10.76	Avg	1.35	155	
14772								No Emissions
14772								Detected
17234								No Emissions
17234								Detected
19696								No Emissions
19696								Detected
22158								No Emissions
22158								Detected
24620								No Emissions
24620								Detected

FCC Class B and RSS-210
Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/22/10
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 g Mode
Receive Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								There were no emissions
								discovered for the EUT
								when the EUT was in Receive Mode
								from 1 GHz to 25 GHz
								Vertical and Horizontal Polarization

FCC 15.247 and FCC Class B

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion 1 GHz to 25 GHz

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 1 GHz to 25 GHz
								for both Vertical and Horizontal
								Polarizations
								No Non Harmonic
								Emissions Found
								for the Tx Mode
								from 1 GHz to 25 GHz
								for both Vertical and Horizontal
								Polarizations

Test Location : Compatible Electronics **Page** : 1/2
Customer : Dension Audio Systems **Date** : 1/25/2010
Manufacturer : Dension Audio Systems **Time** : 8:51:39
Eut name : Wi-Drive **Lab** : D
Model : WID11GEN **Test Distance** : 3 Meters
Serial # : Unit 1
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00

Test Type: Spurious Emissions Qualification
Test Range: 10 kHz to 1 GHz (Vertical and Horizontal)
Test Engineer: James Ross
EUT Note: Transmitter

Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
V	145.419	58.90	1.88	12.54	38.28	35.04	43.50	-8.46
V	152.408	64.40	1.92	12.72	38.30	40.74	43.50	-2.76
V	152.409Qp	63.64	1.92	12.72	38.30	39.98	43.50	-3.52
V	159.139	63.00	1.98	12.88	38.30	39.56	43.50	-3.94
V	165.496	59.70	2.03	13.93	38.30	37.36	43.50	-6.14
V	172.679	60.00	2.08	15.23	38.30	39.01	43.50	-4.49
V	192.215	51.70	2.17	16.81	38.16	32.52	43.50	-10.98
V	196.399	51.40	2.19	16.91	38.13	32.37	43.50	-11.13
V	199.795	53.90	2.20	17.00	38.10	34.99	43.50	-8.51
V	203.177	58.00	2.21	16.95	38.11	39.05	43.50	-4.45
V	223.476	54.20	2.29	16.65	38.19	34.95	46.00	-11.05
V	231.093	58.30	2.38	16.55	38.23	39.00	46.00	-7.00
V	264.062	60.50	2.66	17.39	38.24	42.31	46.00	-3.69
V	277.426	52.20	2.72	18.17	38.20	34.89	46.00	-11.11
V	284.148	52.00	2.78	18.09	38.20	34.66	46.00	-11.34
V	290.800	52.70	2.83	18.01	38.20	35.34	46.00	-10.66
V	297.493	52.00	2.88	17.93	38.20	34.61	46.00	-11.39
H	132.086	57.40	1.83	12.85	38.23	33.85	43.50	-9.65
H	152.405	55.90	1.92	12.72	38.30	32.24	43.50	-11.26
H	165.508	57.90	2.03	13.93	38.30	35.56	43.50	-7.94
H	172.157	58.90	2.08	15.14	38.30	37.82	43.50	-5.68
H	186.225	60.20	2.15	16.66	38.21	40.80	43.50	-2.70
H	186.225Qp	59.49	2.15	16.66	38.21	40.09	43.50	-3.41
H	192.234	62.30	2.17	16.81	38.16	43.12	43.50	-0.38
H	192.239Qp	61.76	2.17	16.81	38.16	42.58	43.50	-0.92
H	203.908	61.50	2.22	16.94	38.12	42.54	43.50	-0.96
H	203.908Qp	60.99	2.22	16.94	38.12	42.03	43.50	-1.47
H	223.956	56.30	2.30	16.65	38.20	37.05	46.00	-8.95
H	230.221	60.10	2.37	16.56	38.22	40.80	46.00	-5.20
H	291.154	49.90	2.83	18.00	38.20	32.53	46.00	-13.47
H	297.504	50.70	2.88	17.93	38.20	33.31	46.00	-12.69
V	304.681	51.50	2.92	14.29	38.19	30.52	46.00	-15.48
V	310.849	54.00	2.95	14.41	38.18	33.18	46.00	-12.82
V	318.218	55.10	2.98	14.55	38.16	34.46	46.00	-11.54
V	355.967	49.90	3.13	15.21	38.15	30.09	46.00	-15.91

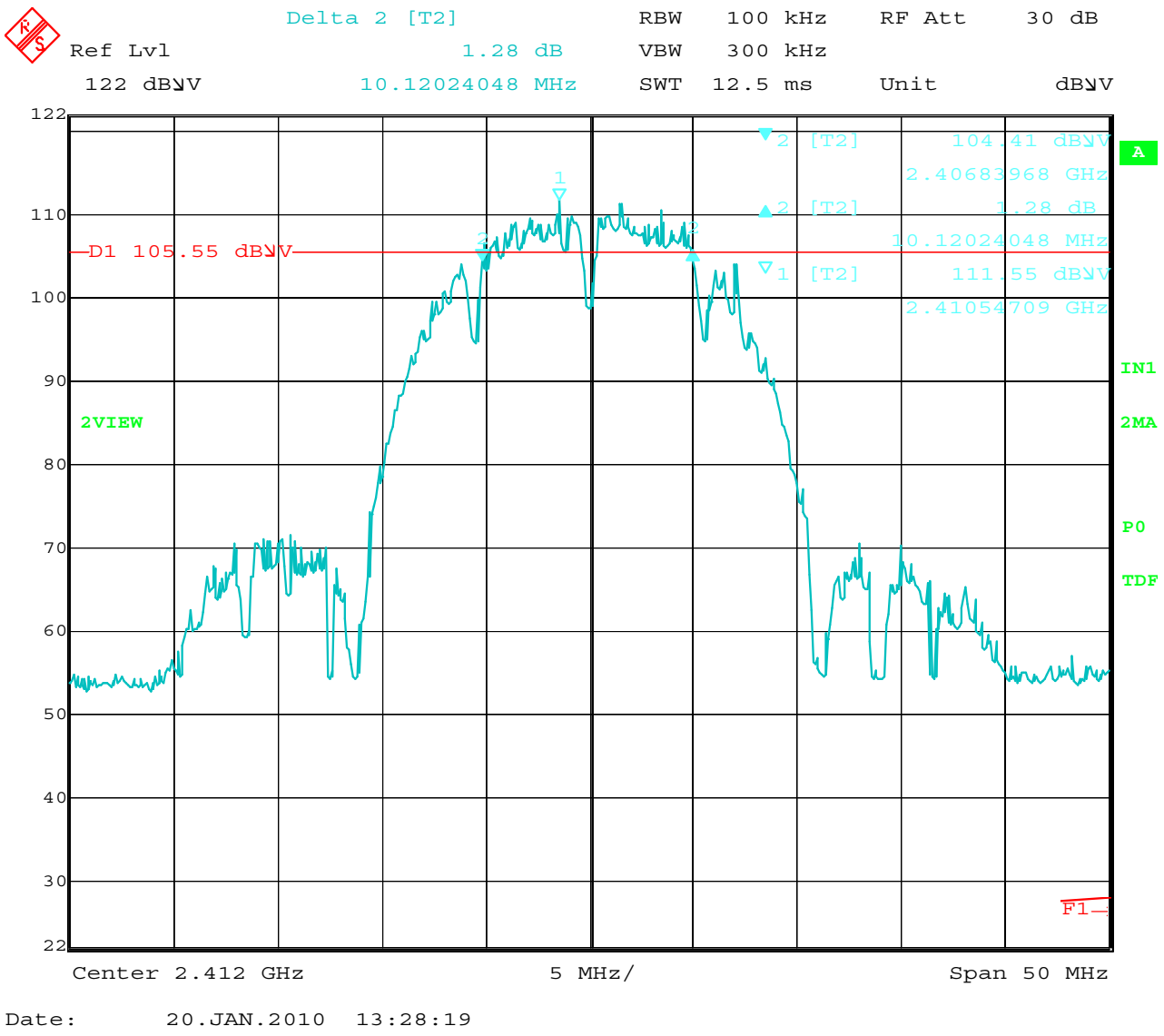
Test Location : Compatible Electronics **Page** : 2/2
Customer : Dension Audio Systems **Date** : 1/25/2010
Manufacturer : Dension Audio Systems **Time** : 8:51:39
Eut name : Wi-Drive **Lab** : D
Model : WID11GEN **Test Distance** : 3 Meters
Serial # : Unit 1
Specification : FCC Class B
Distance correction factor (20 * log(test/spec) : 0.00

Test Type: Spurious Emissions Qualification
Test Range: 10 kHz to 1 GHz (Vertical and Horizontal)
Test Engineer: James Ross
EUT Note: Transmitter

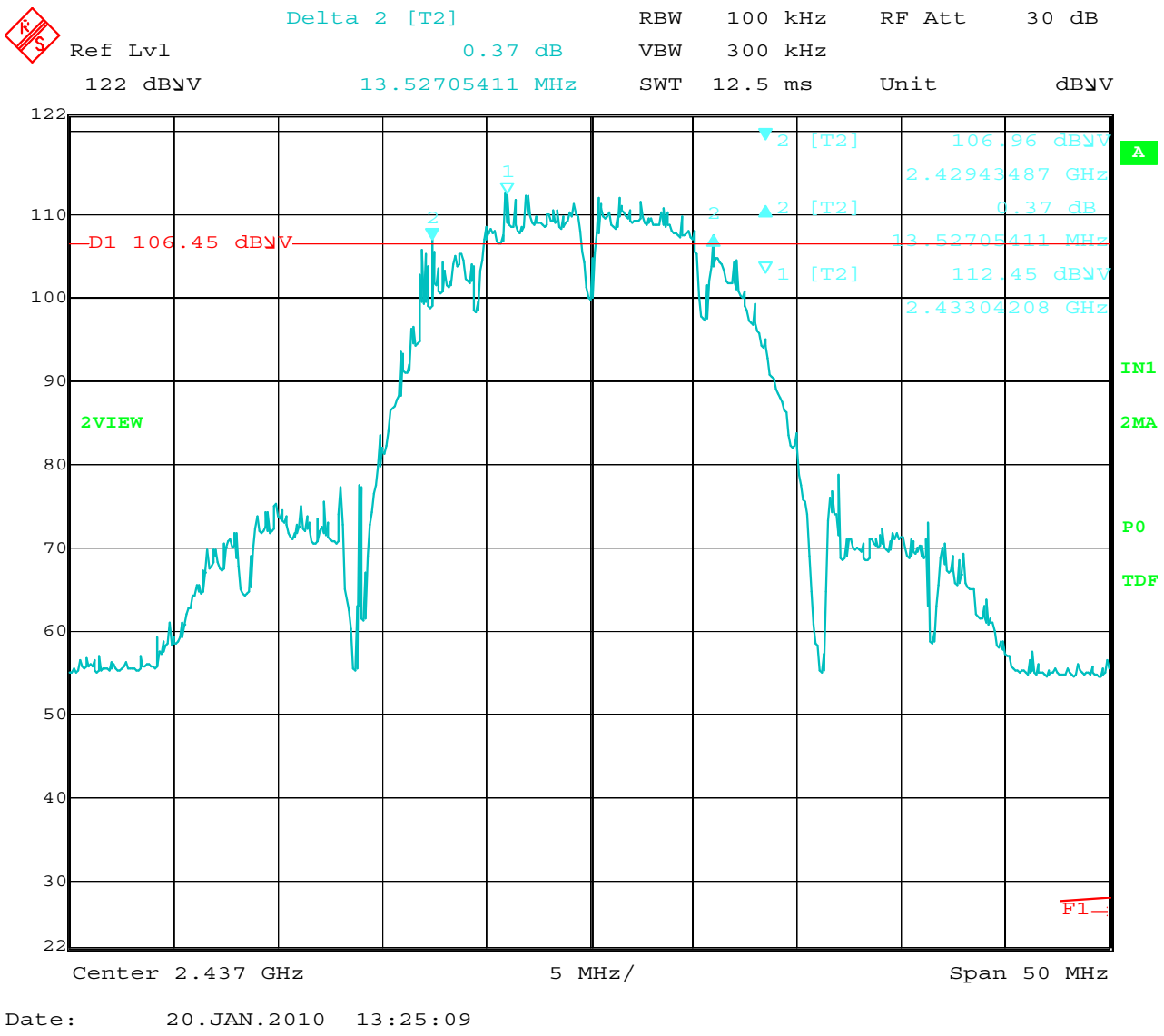
Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
V	396.099	64.80	3.29	15.84	38.47	45.46	46.00	-0.54
V	396.098Qp	64.05	3.29	15.84	38.47	44.71	46.00	-1.29
V	402.778	53.70	3.31	15.94	38.47	34.48	46.00	-11.52
V	409.430	56.10	3.34	16.03	38.40	37.06	46.00	-8.94
V	416.108	54.70	3.37	16.11	38.33	35.85	46.00	-10.15
V	442.884	53.40	3.47	16.45	38.07	35.25	46.00	-10.75
V	480.093	50.90	3.38	16.88	37.94	33.22	46.00	-12.78
V	660.064	57.20	3.76	19.60	37.82	42.74	46.00	-3.26
V	726.092	51.80	4.11	20.40	38.30	38.01	46.00	-7.99
V	772.014	47.70	4.24	20.91	37.90	34.95	46.00	-11.05
V	792.099	52.50	4.28	21.12	37.54	40.36	46.00	-5.64
V	798.738	51.10	4.30	21.19	37.42	39.16	46.00	-6.84
V	812.112	53.10	4.30	21.21	37.42	41.19	46.00	-4.81
H	310.887	50.20	2.95	14.41	38.18	29.38	46.00	-16.62
H	317.569	50.40	2.97	14.54	38.16	29.75	46.00	-16.25
H	355.452	50.80	3.12	15.20	38.15	30.98	46.00	-15.02
H	396.058	65.00	3.29	15.84	38.47	45.66	46.00	-0.34
H	396.058Qp	64.72	3.29	15.84	38.47	45.38	46.00	-0.62
H	402.795	57.20	3.31	15.94	38.47	37.98	46.00	-8.02
H	409.431	58.30	3.34	16.03	38.40	39.26	46.00	-6.74
H	416.104	57.50	3.37	16.11	38.33	38.65	46.00	-7.35
H	436.676	57.50	3.45	16.37	38.13	39.19	46.00	-6.81
H	449.531	56.10	3.50	16.53	38.00	38.12	46.00	-7.88
H	480.098	58.40	3.38	16.88	37.94	40.72	46.00	-5.28
H	512.067	52.40	3.33	17.32	37.98	35.07	46.00	-10.93
H	660.096	53.70	3.76	19.61	37.82	39.24	46.00	-6.76
H	726.073	52.90	4.11	20.40	38.30	39.11	46.00	-6.89
H	778.520	48.90	4.26	20.98	37.78	36.35	46.00	-9.65
H	792.063	54.30	4.28	21.12	37.54	42.16	46.00	-3.84
H	805.427	53.90	4.30	21.21	37.41	41.99	46.00	-4.01

-6 dB BANDWIDTH

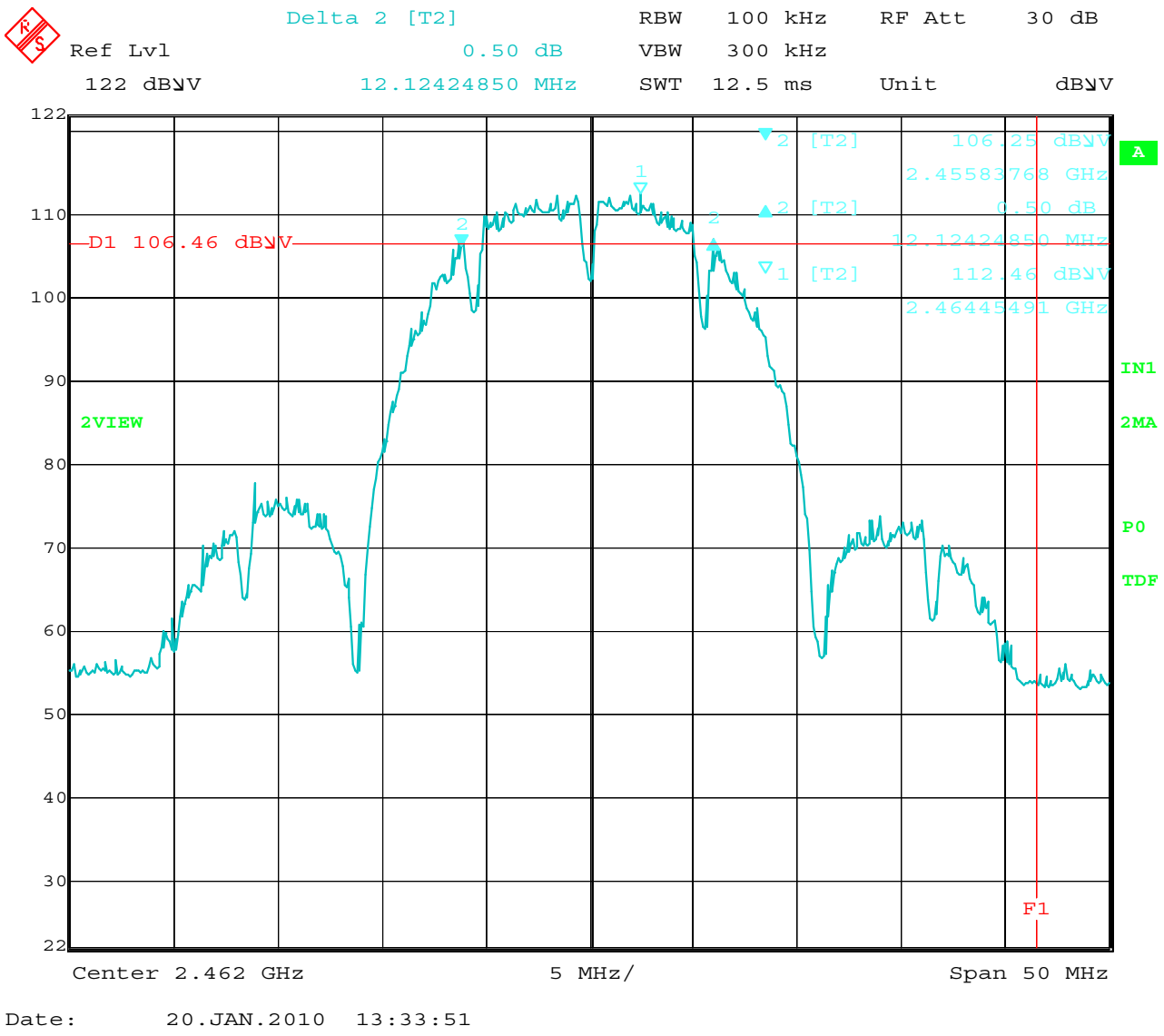
DATA SHEETS



Bandwidth 6 dB – Channel 1 – 802.11 g Mode



Bandwidth 6 dB – Channel 6 – 802.11 g Mode



Bandwidth 6 dB – Channel 11 – 802.11 g Mode

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

DENSION AUDIO SYSTEMS

WI-DRIVE

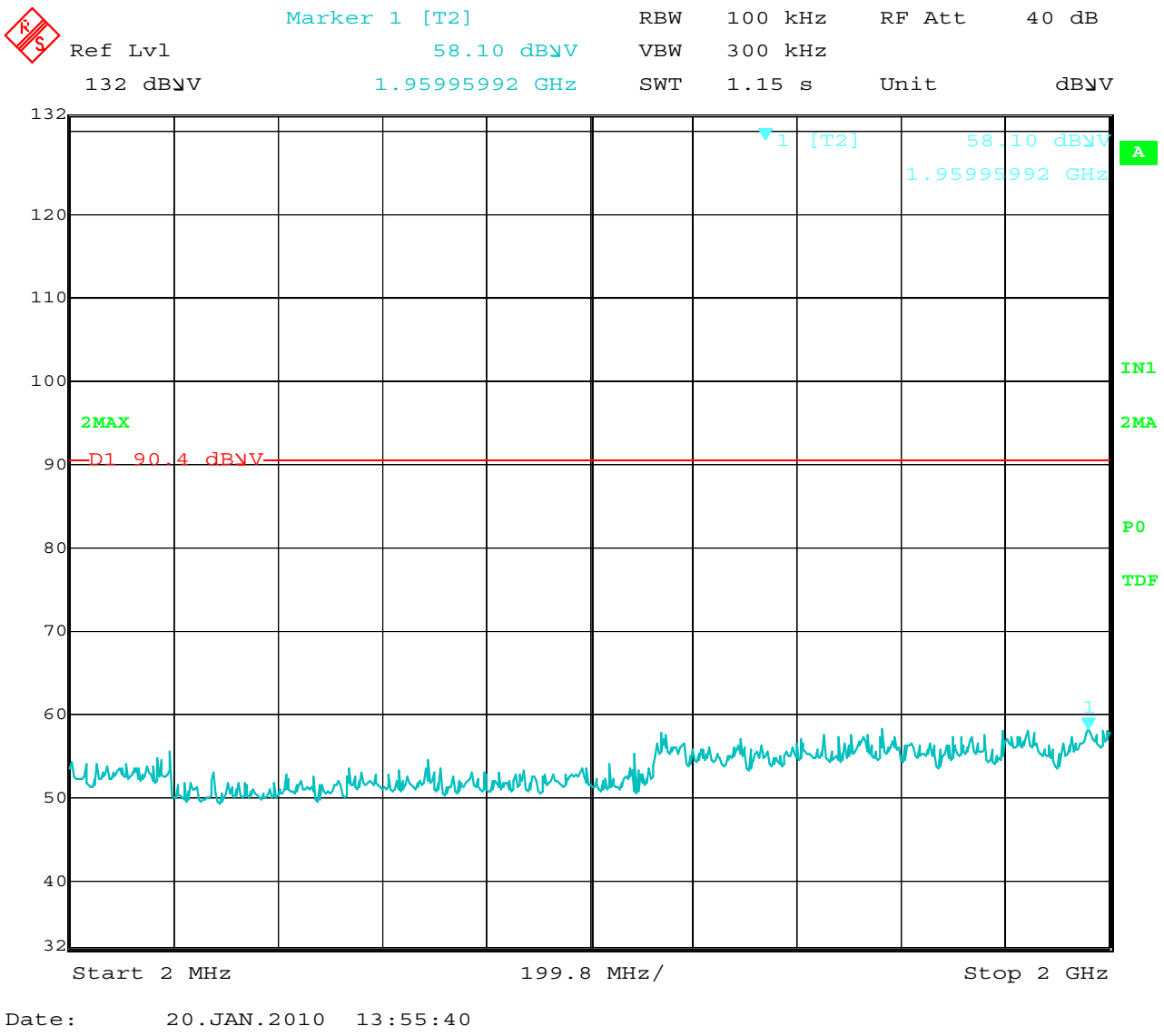
Model: WID11GEN

802.11 g Mode

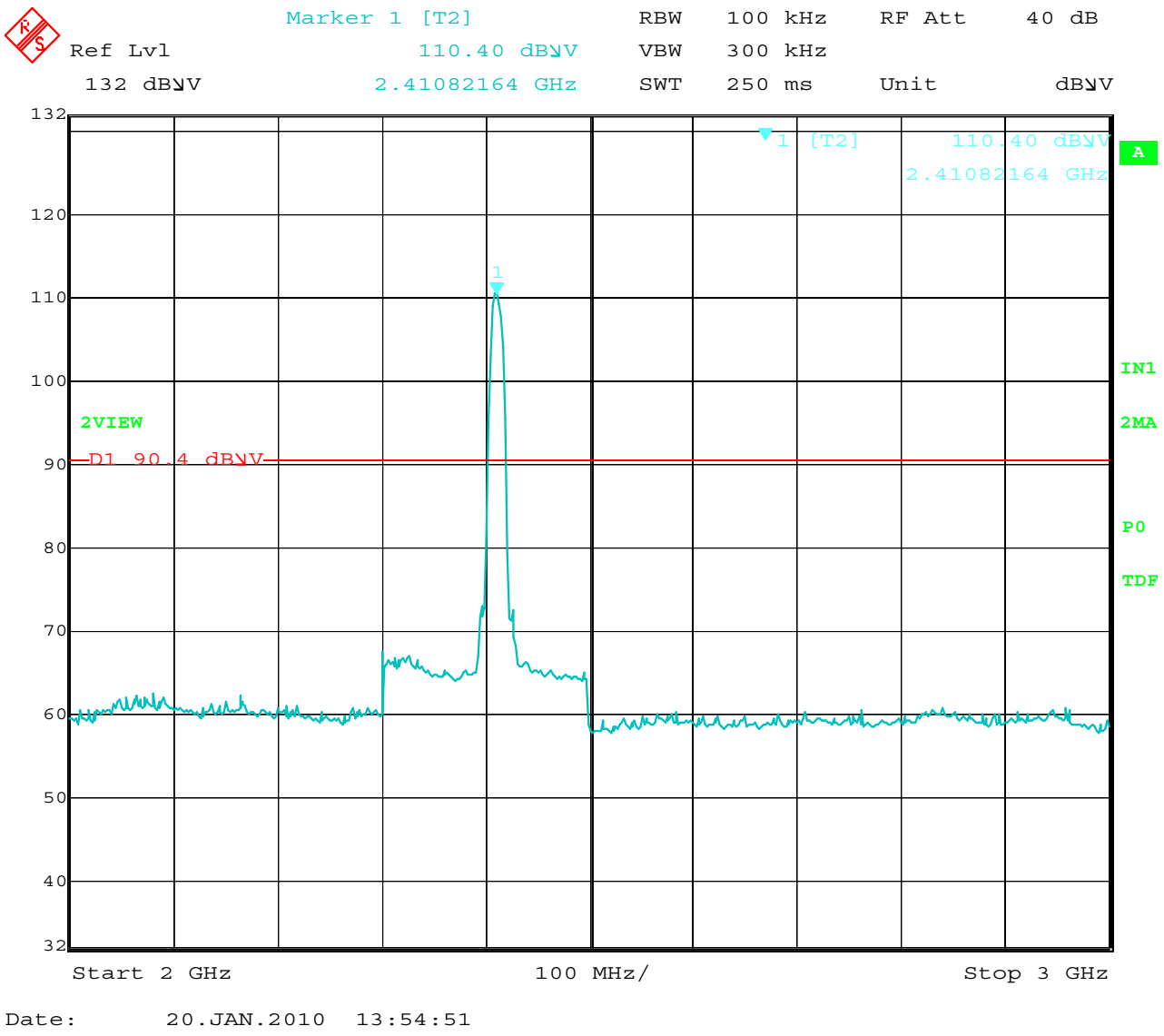
CHANNEL	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	18.18
6 (2437 MHz)	18.02
11 (2462 MHz)	18.32

RF CONDUCTED ANTENNA TEST

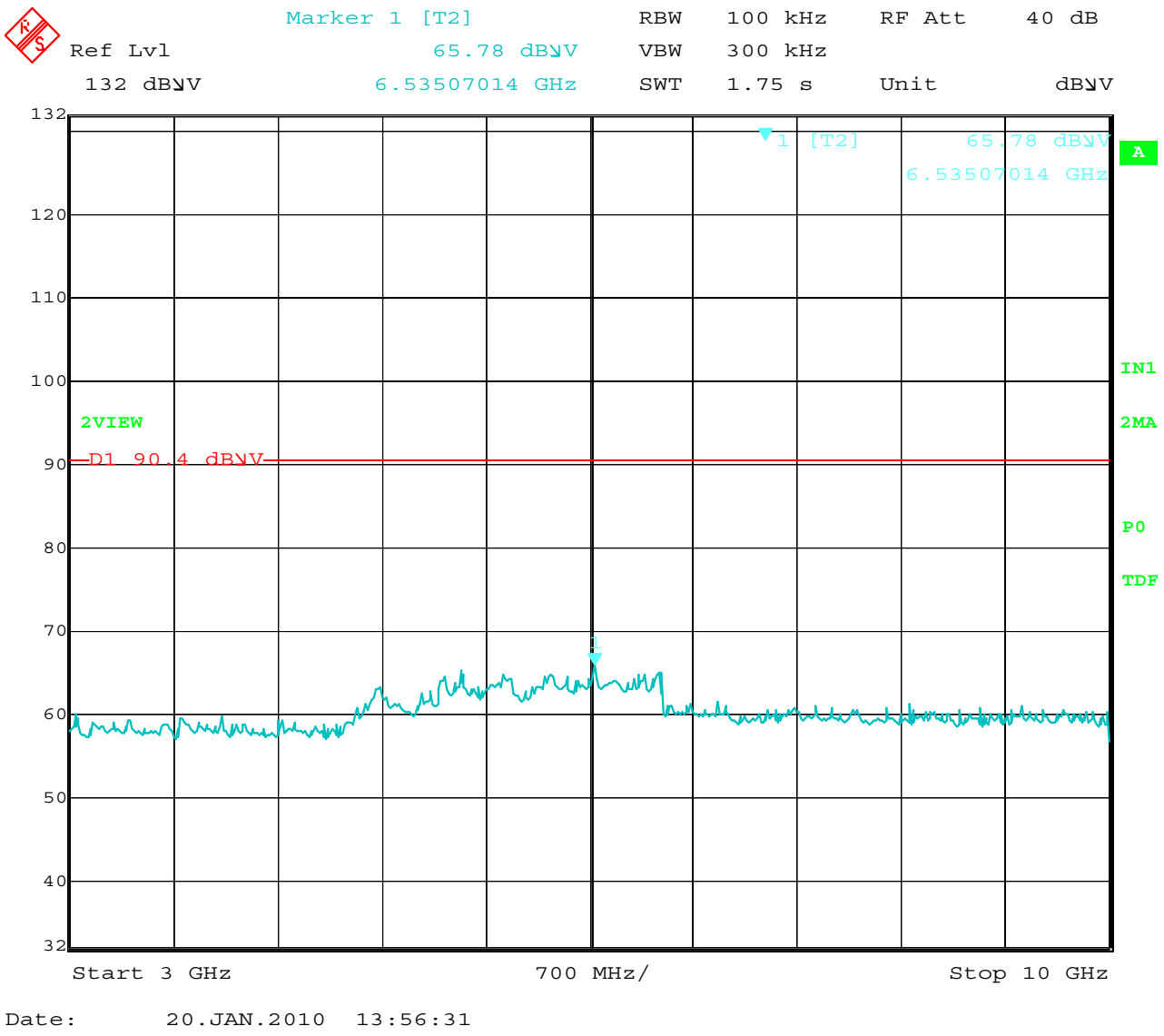
DATA SHEETS



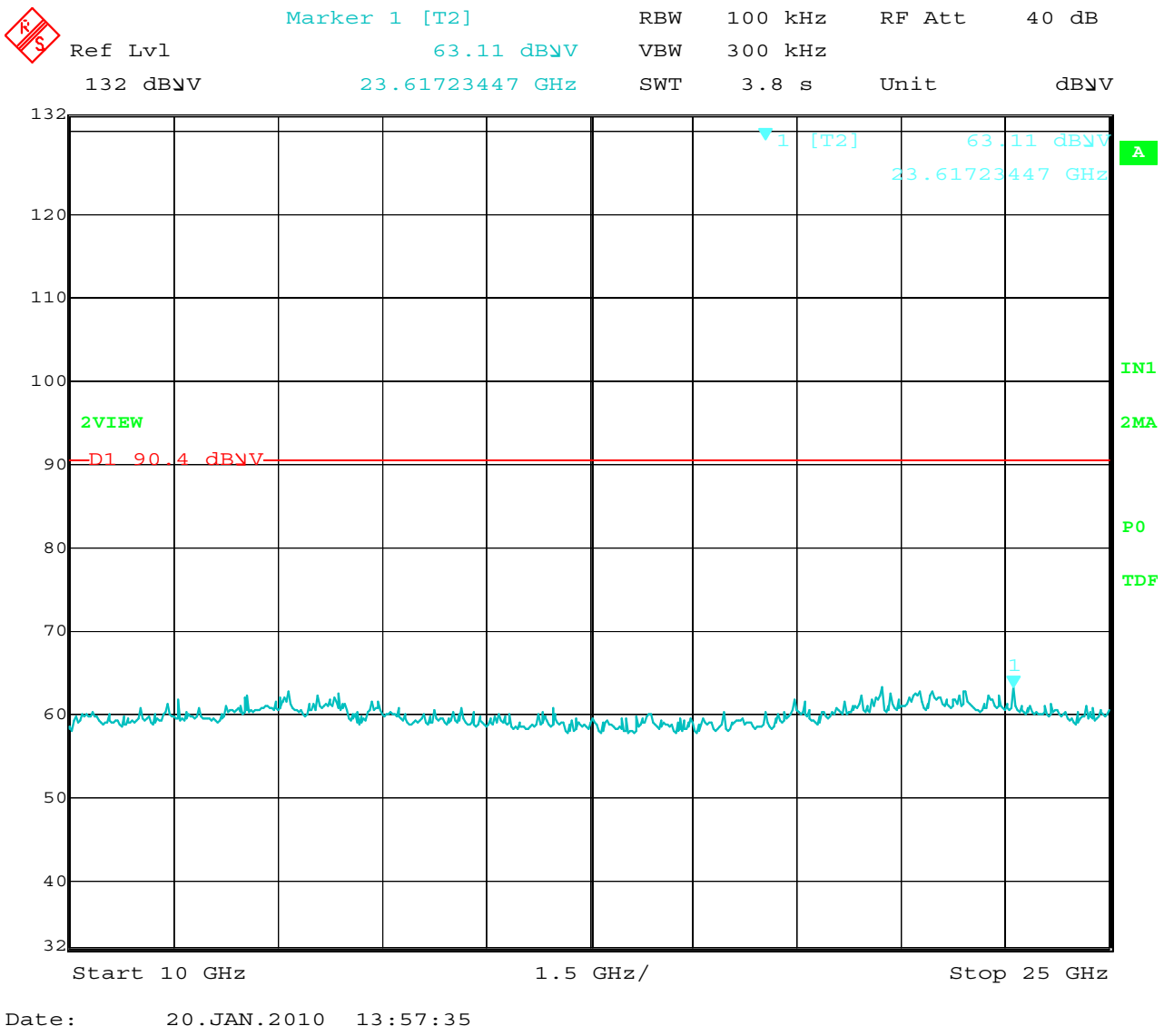
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 2 MHz to 2 GHz



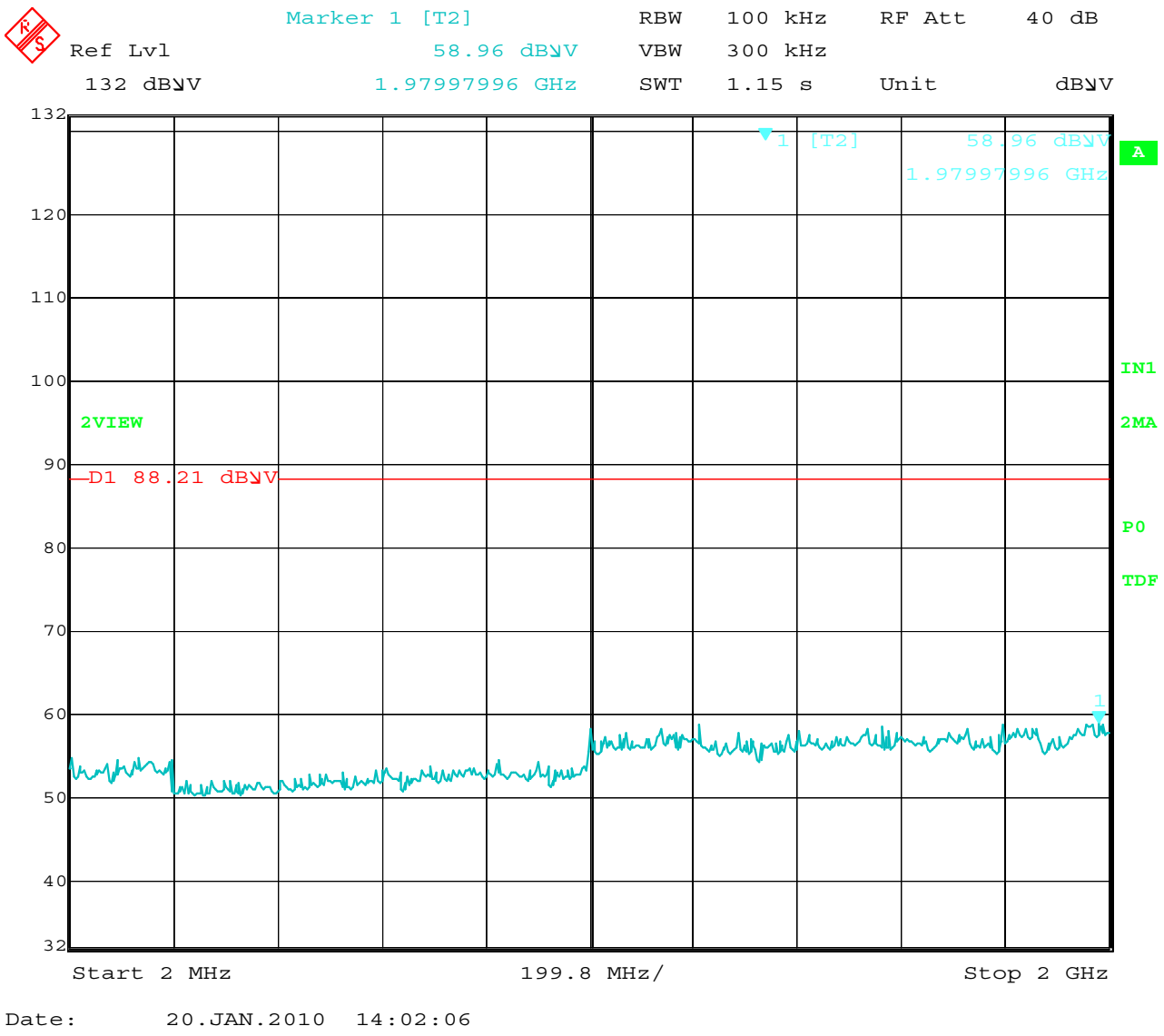
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 2 GHz to 3 GHz



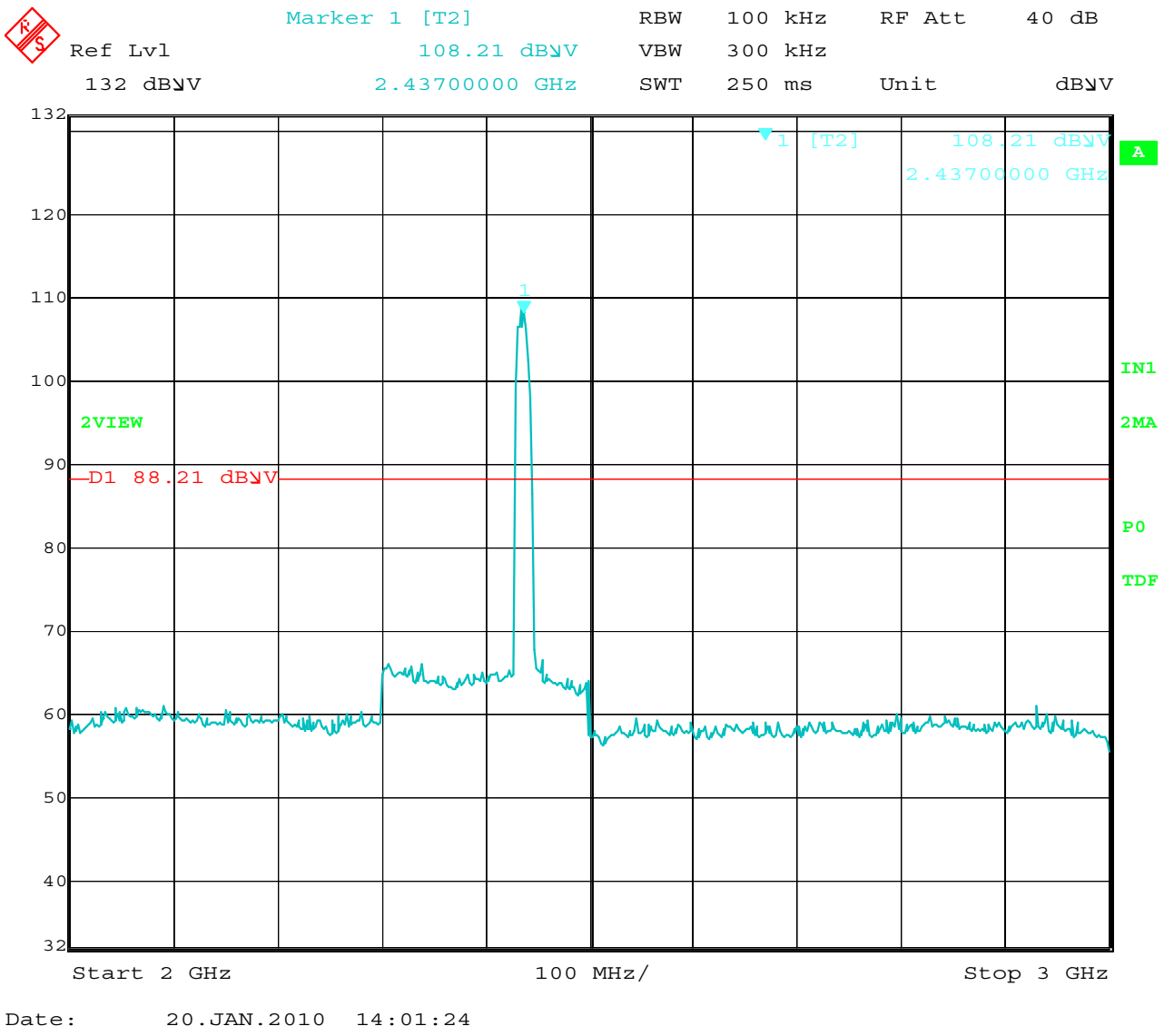
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 3 GHz to 10 GHz



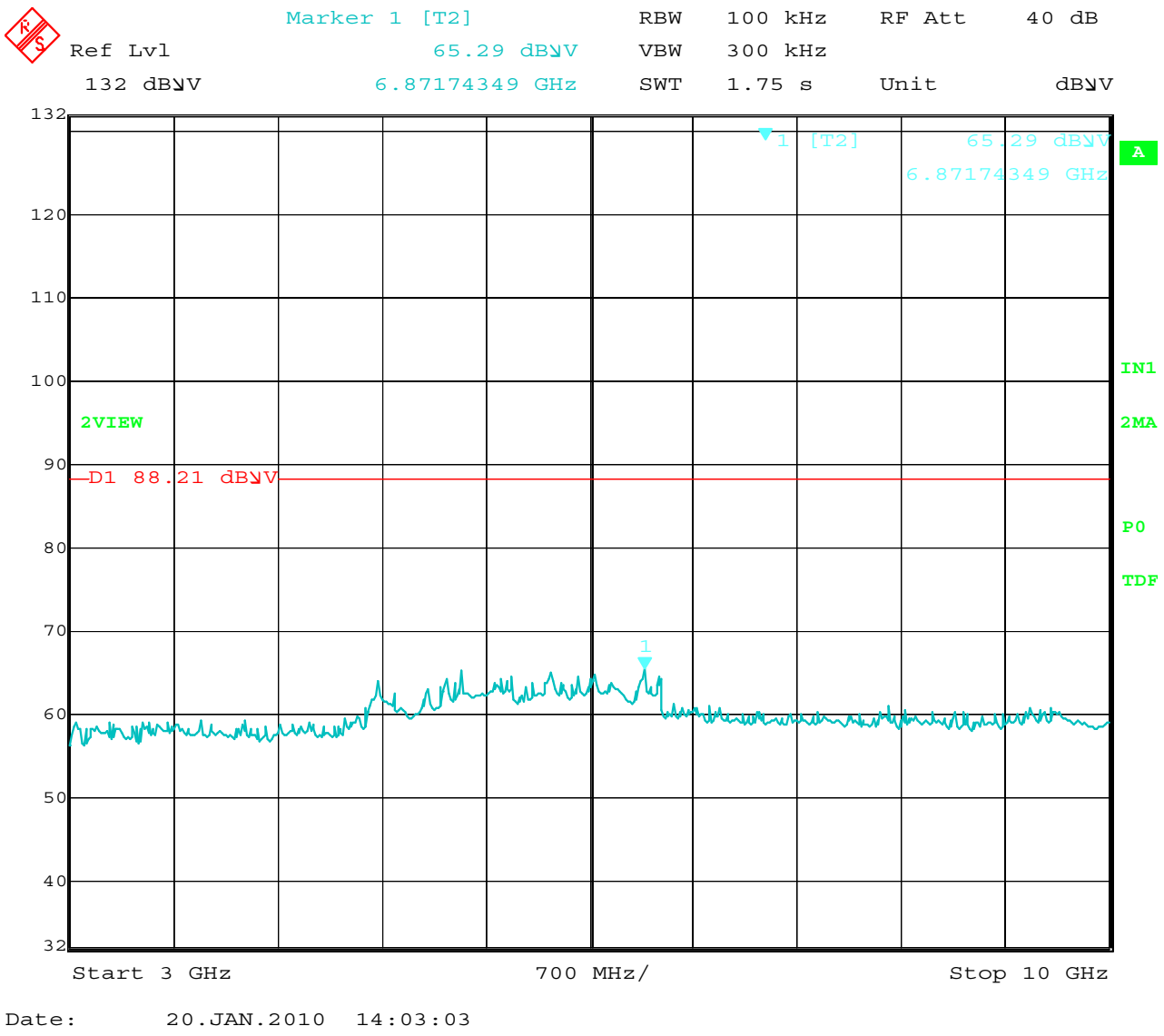
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 10 GHz to 25 GHz



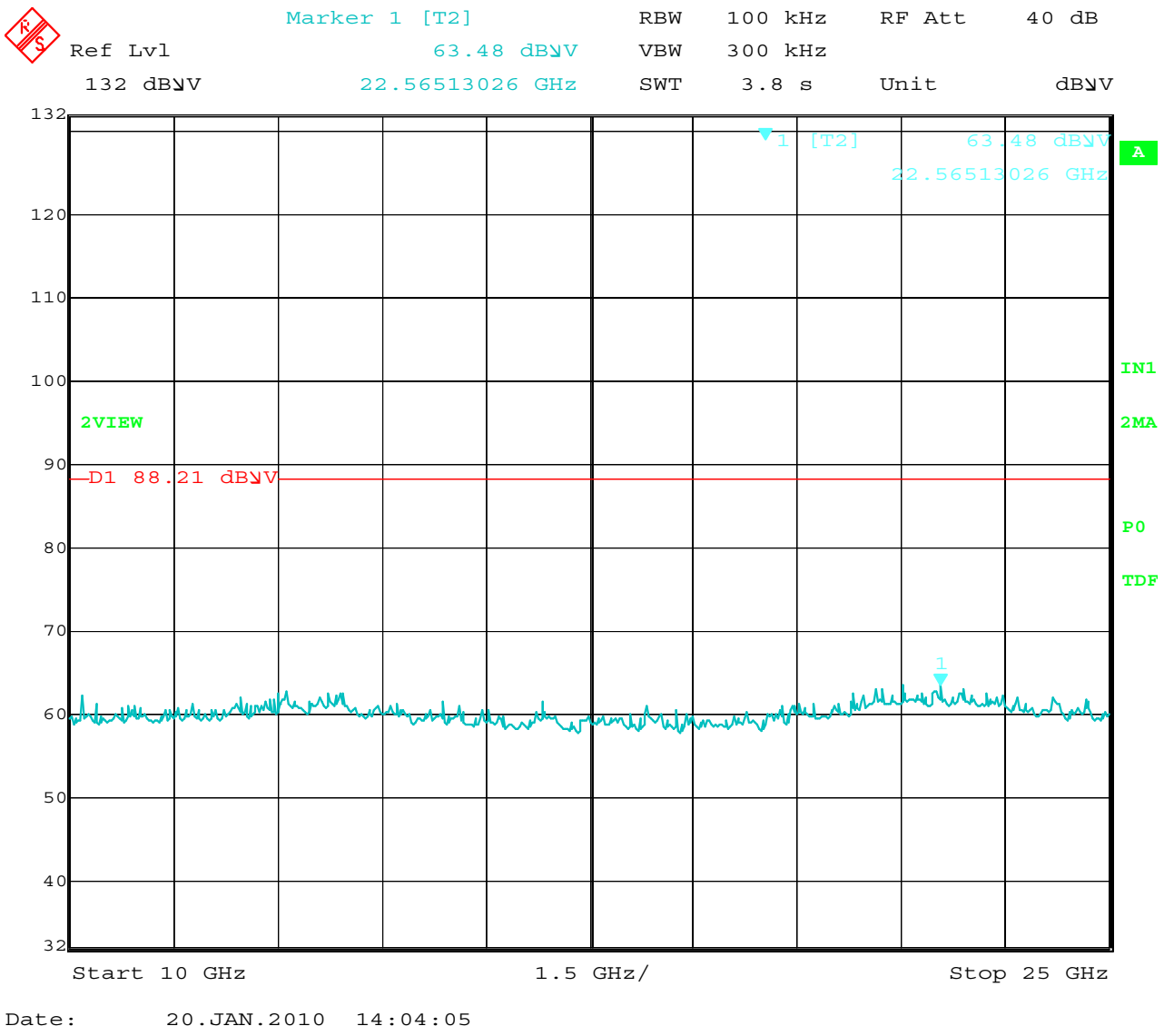
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 2 MHz to 2 GHz



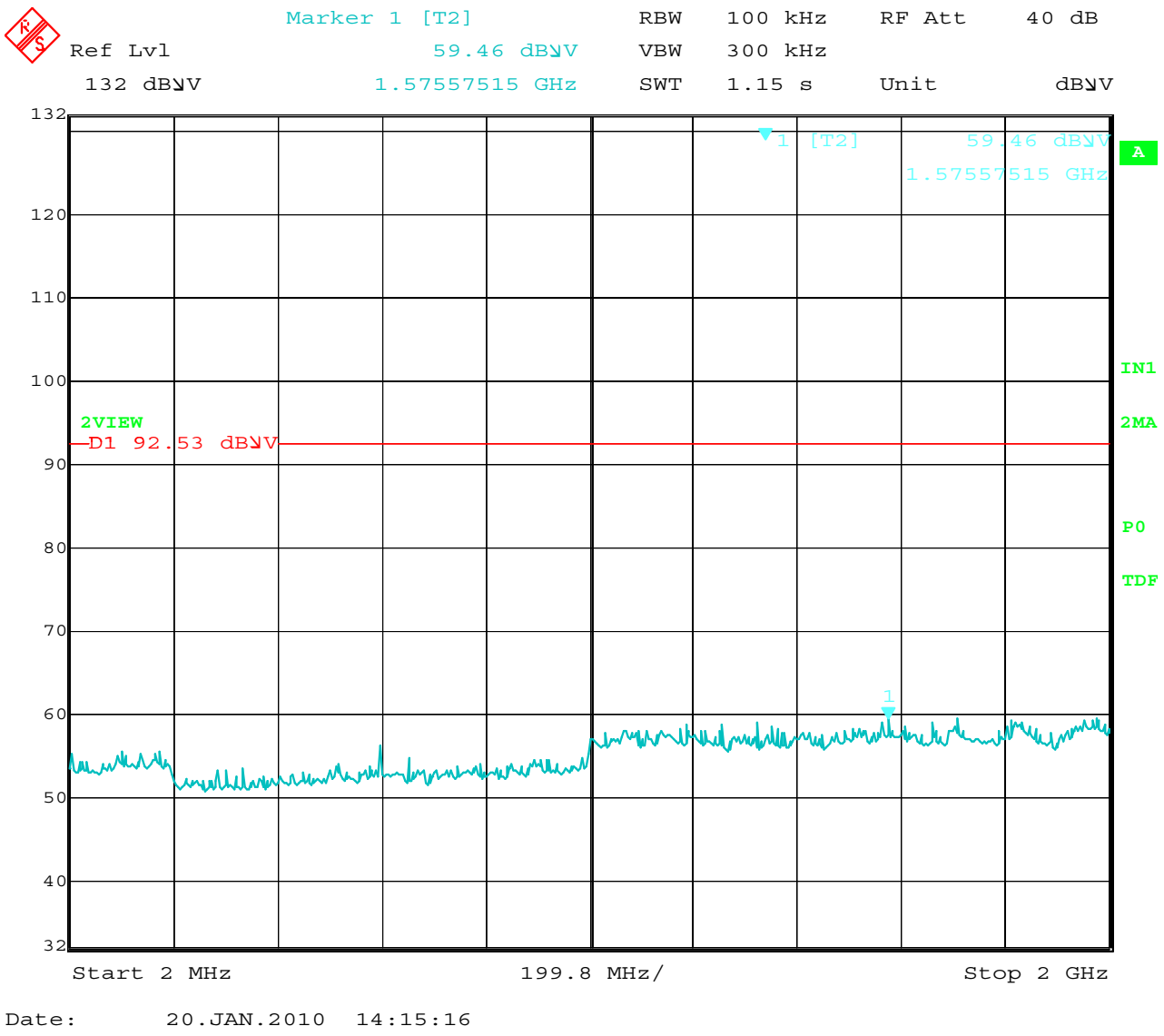
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 2 GHz to 3 GHz



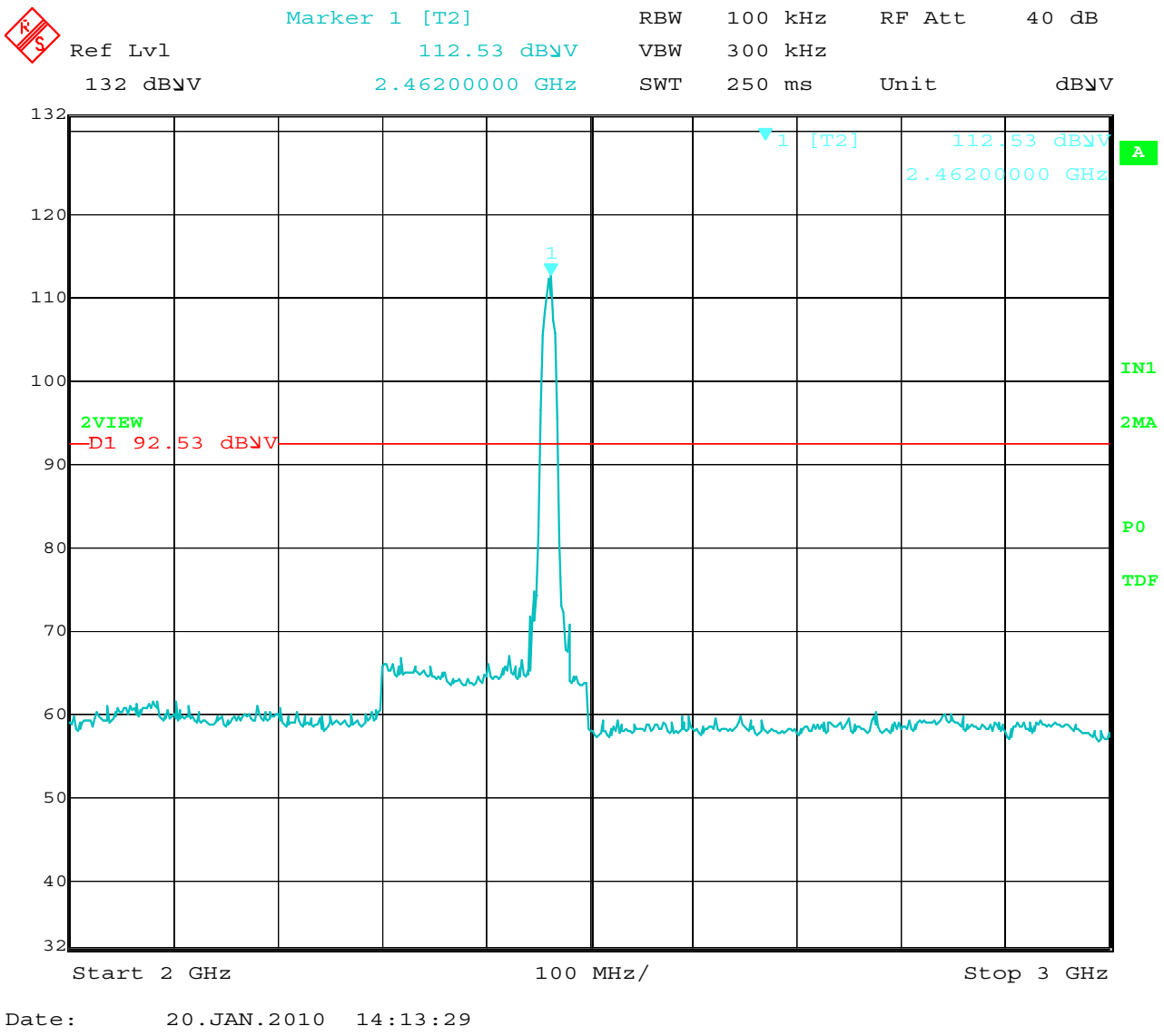
RF Antenna Conducted Test – Channel 3 – 802.11 g Mode – 3 GHz to 10 GHz



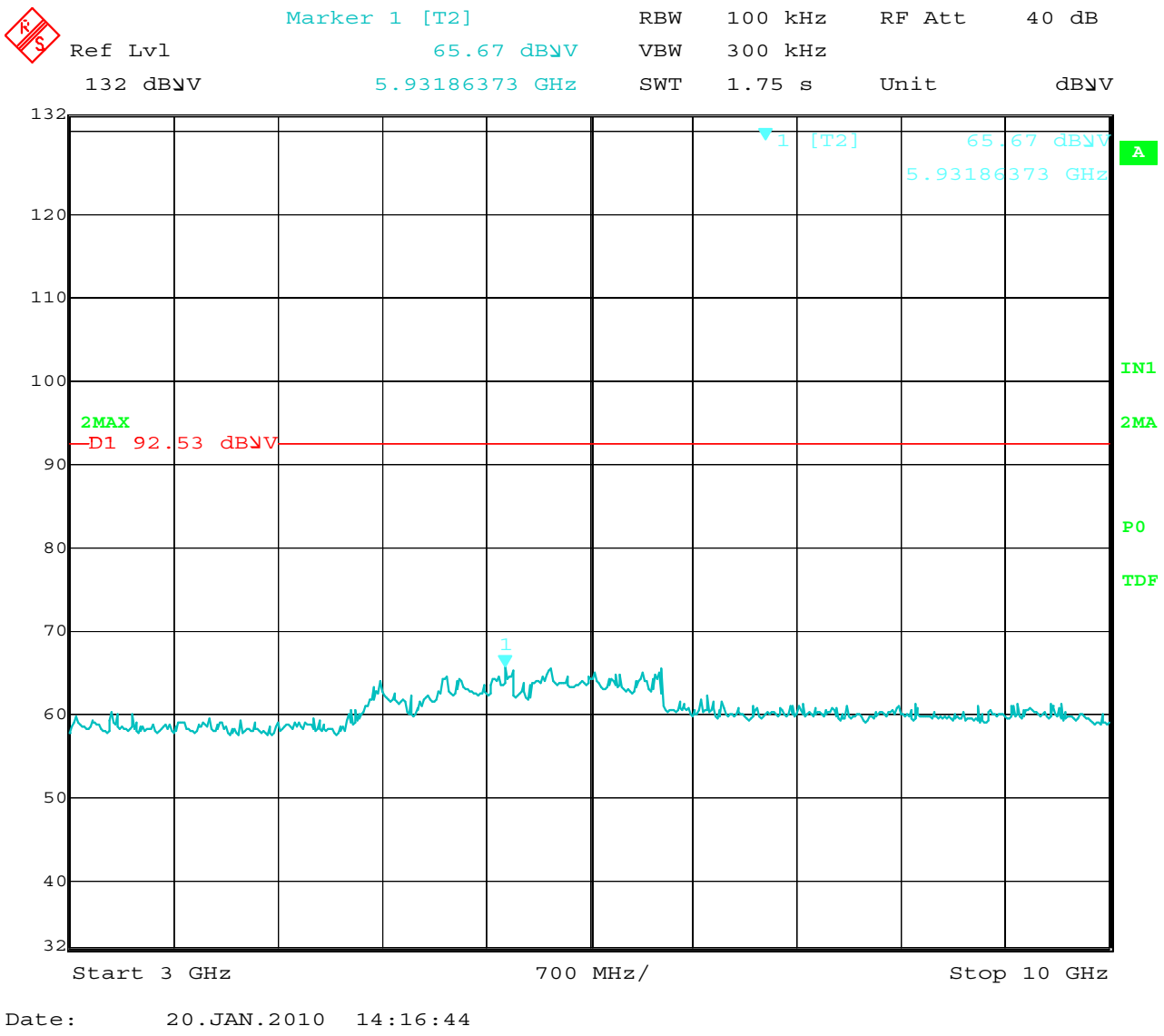
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 10 GHz to 25 GHz



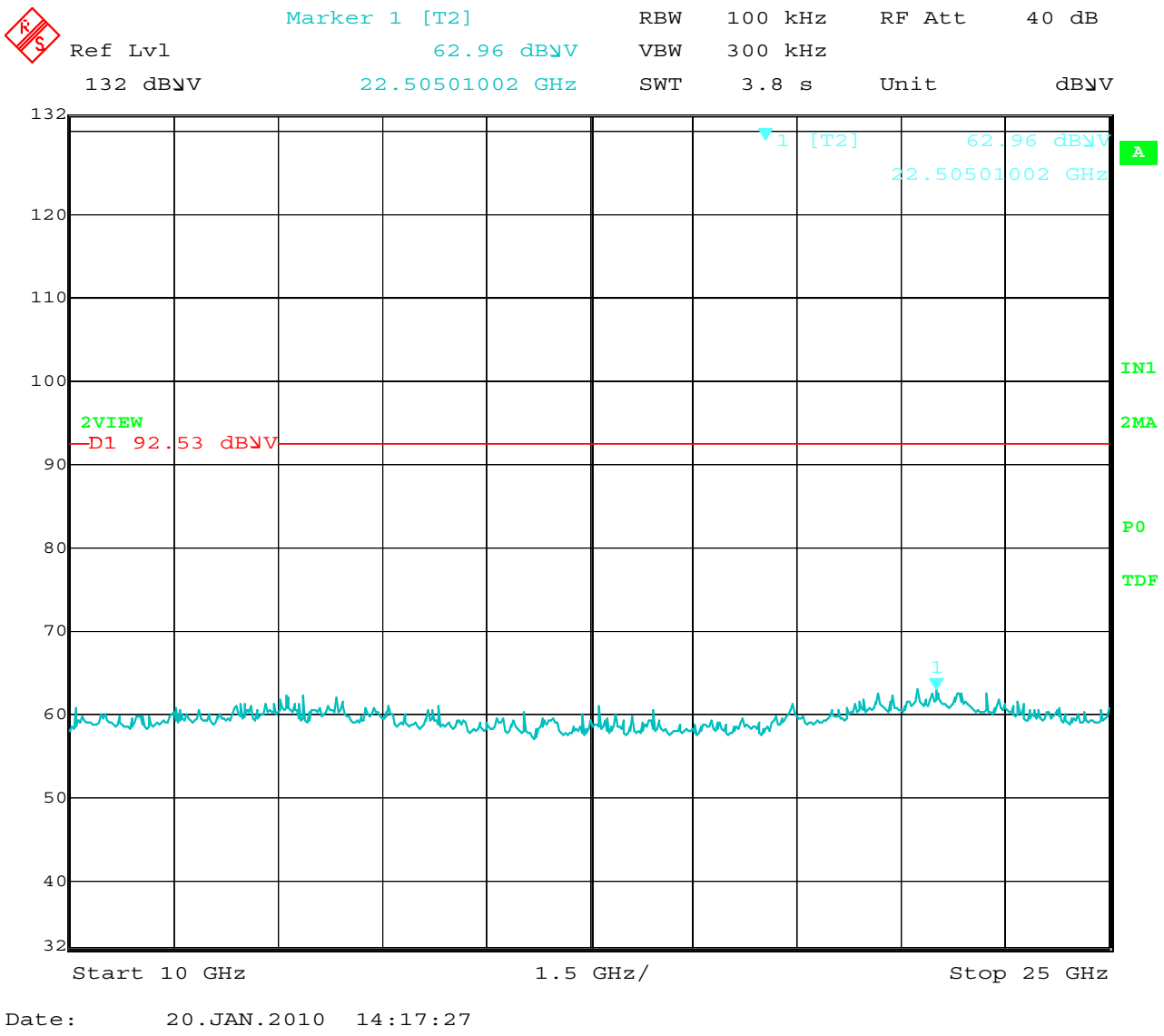
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 2 MHz to 2 GHz



RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 2 GHz to 3 GHz



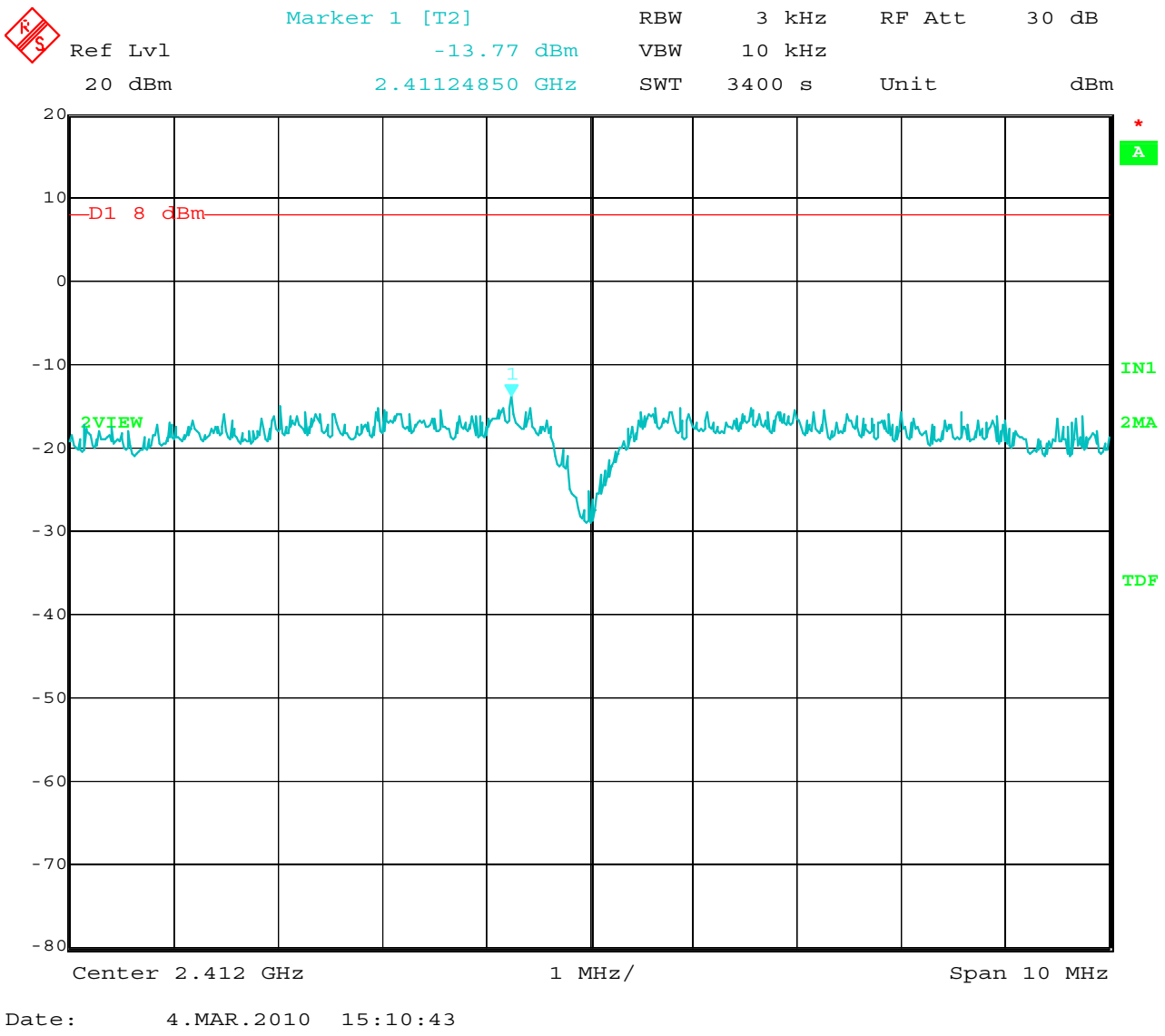
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 3 GHz to 10 GHz



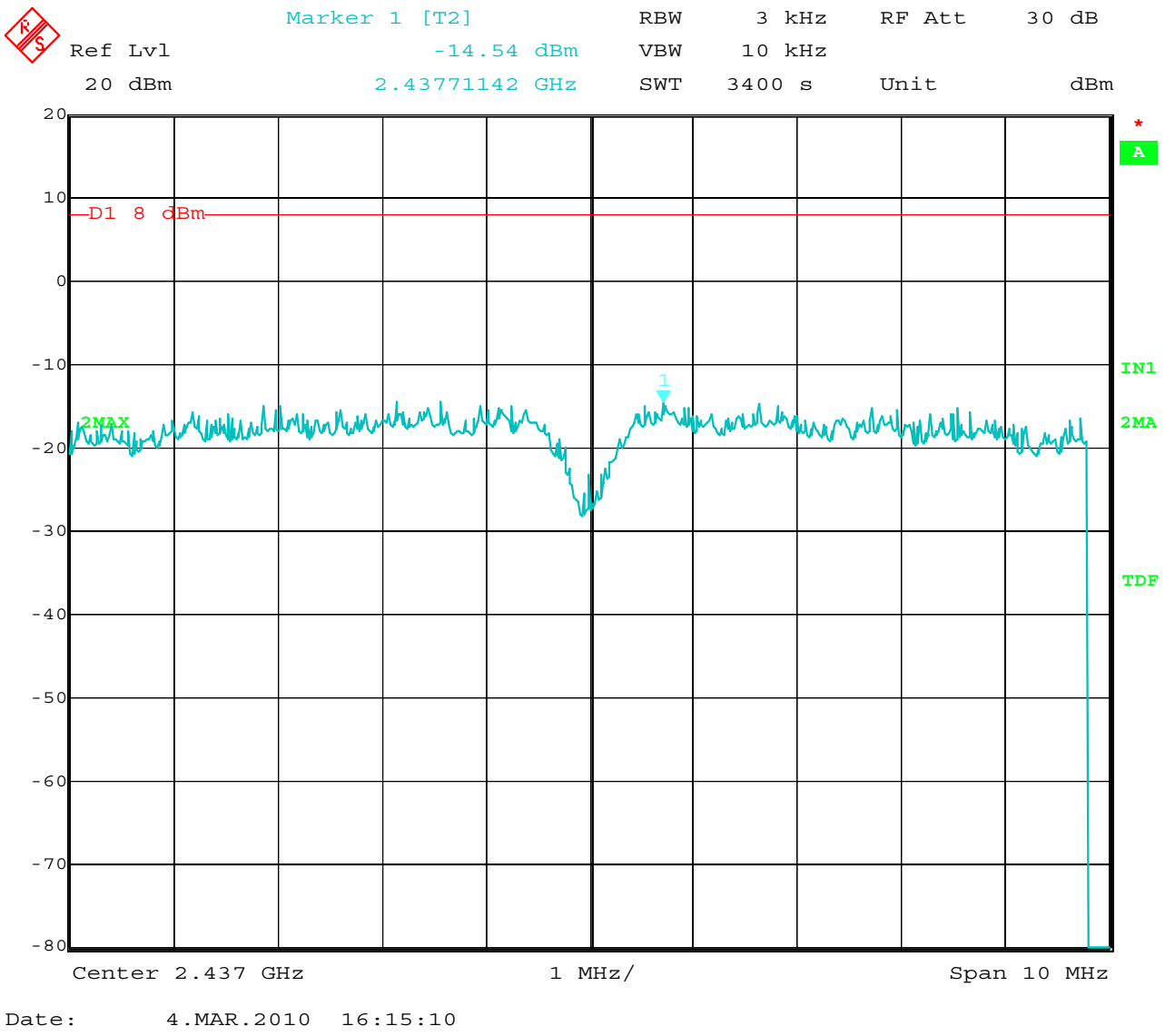
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 10 GHz to 25 GHz

SPECTRAL DENSITY OUTPUT

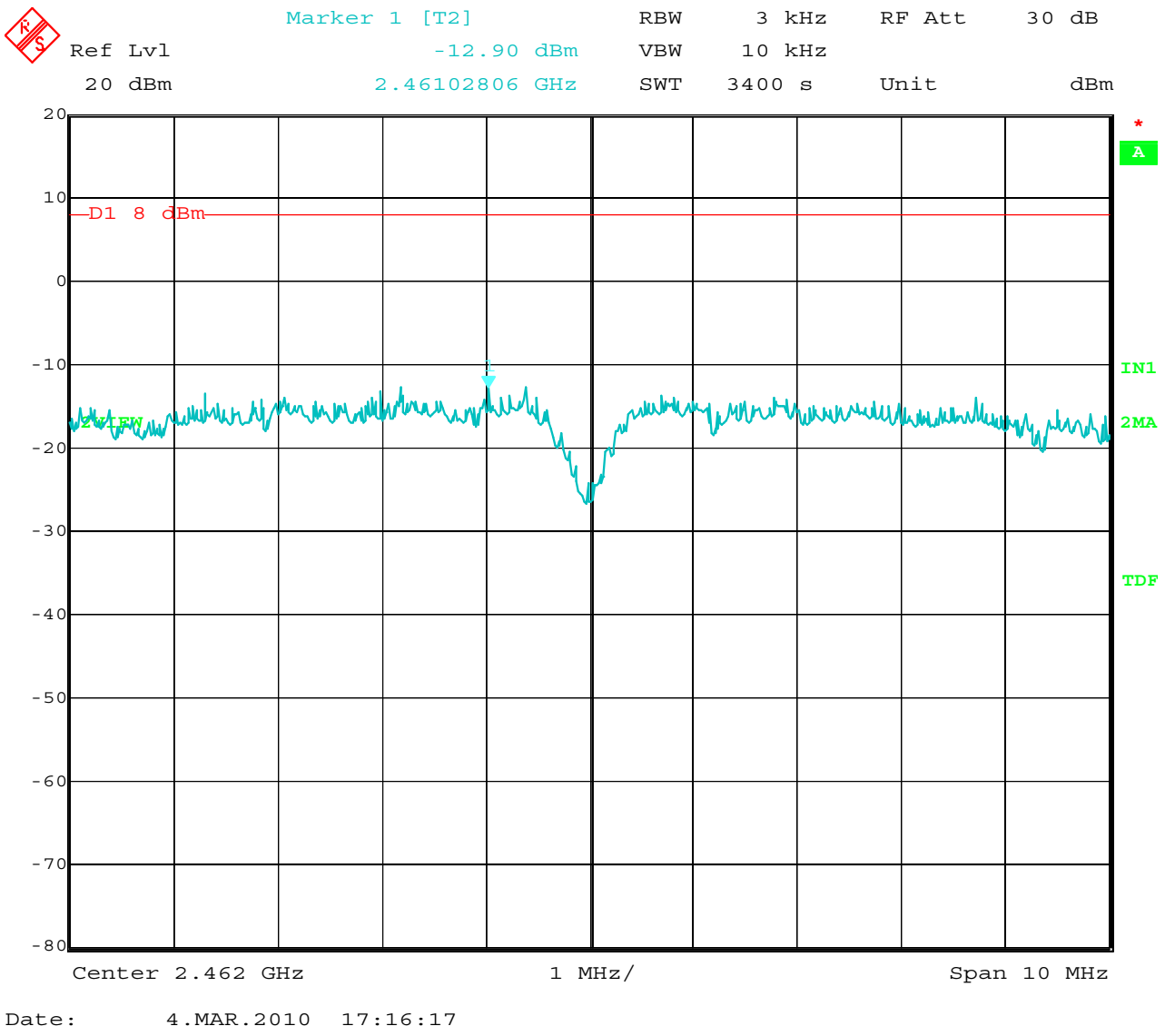
DATA SHEETS



Spectral Density Output – Channel 1 – 802.11 g Mode



Spectral Density Output – Channel 6 – 802.11 g Mode



Spectral Density Output – Channel 11 – 802.11 g Mode

BAND EDGES

DATA SHEETS

FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 1 - 802.11 g Mode
Channel 6 - 802.11 g Mode
Channel 11 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	103.2	V	--	--	Peak	2.5	180	Fundamental of Channel 1
2412	99.47	V	--	--	Avg	2.5	180	@ 3 Meters
2330.74	62.48	V	74	-11.52	Peak	2.5	180	**No** Marker Delta Method
2331.2	52.7	V	54	-1.3	Avg	2.5	180	Method Used
2437	103.62	V	--	--	Peak	2.5	180	Fundamental of Channel 6
2437	99.83	V	--	--	Avg	2.5	180	@ 3 meters
2462	105.02	V	--	--	Peak	2.5	180	Fundamental of Channel 11
2462	102.3	V	--	--	Avg	2.5	180	@ 3 Meters
2483.5	47.1	V	74	-26.9	Peak	2.5	180	**No** Marker Delta Method
2484.37	39.98	V	54	-14.02	Avg	2.5	180	Method Used

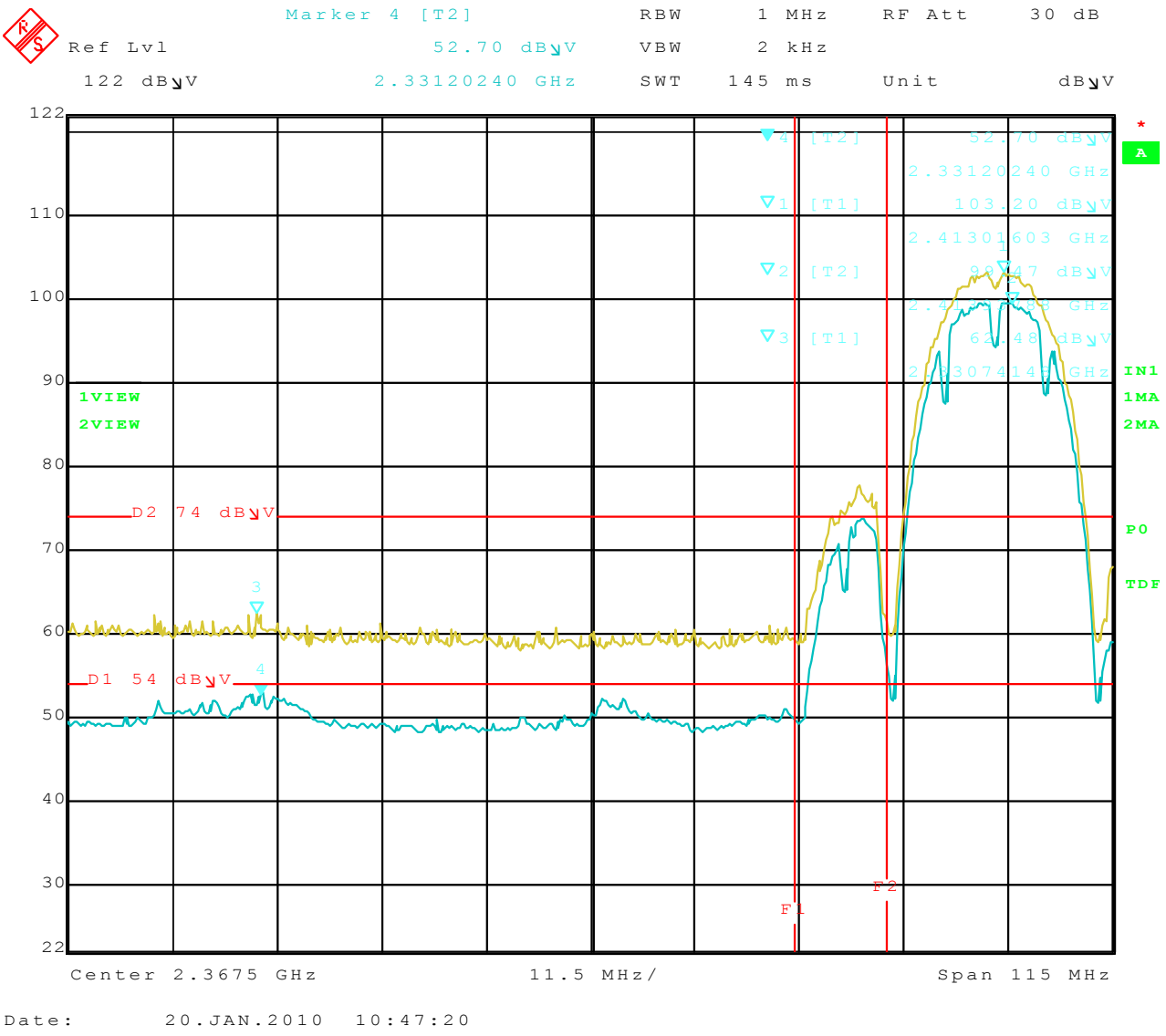
FCC 15.247

Dension Audio Systems
Wi-Drive
Model: WID11GEN

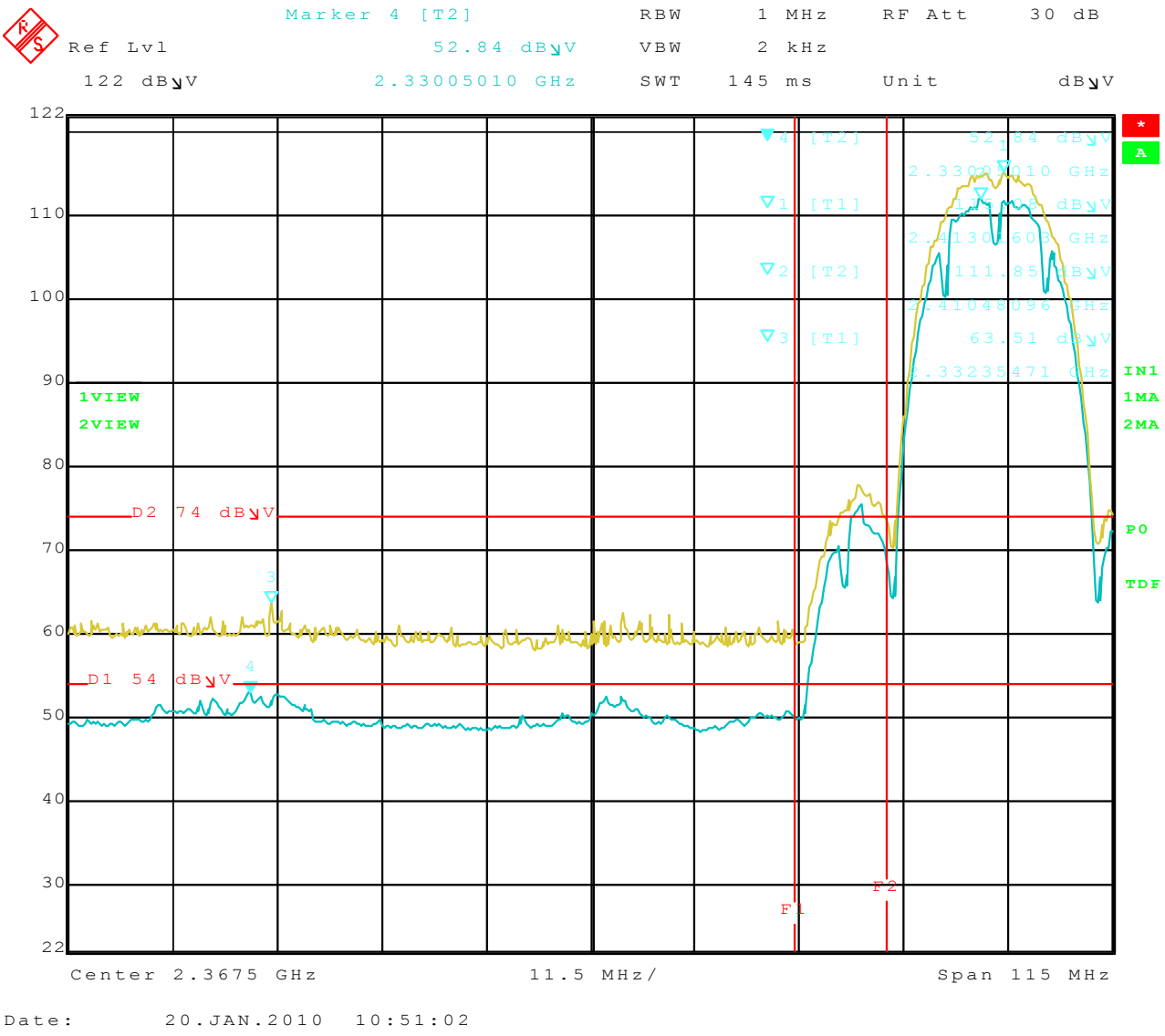
Date: 01/20/10
Lab: B
Tested By: Kyle Fujimoto

Channel 1 - 802.11 g Mode
Channel 6 - 802.11 g Mode
Channel 11 - 802.11 g Mode
Transmit Mode - X-Axis - 54 Mpbs (Worst Case)

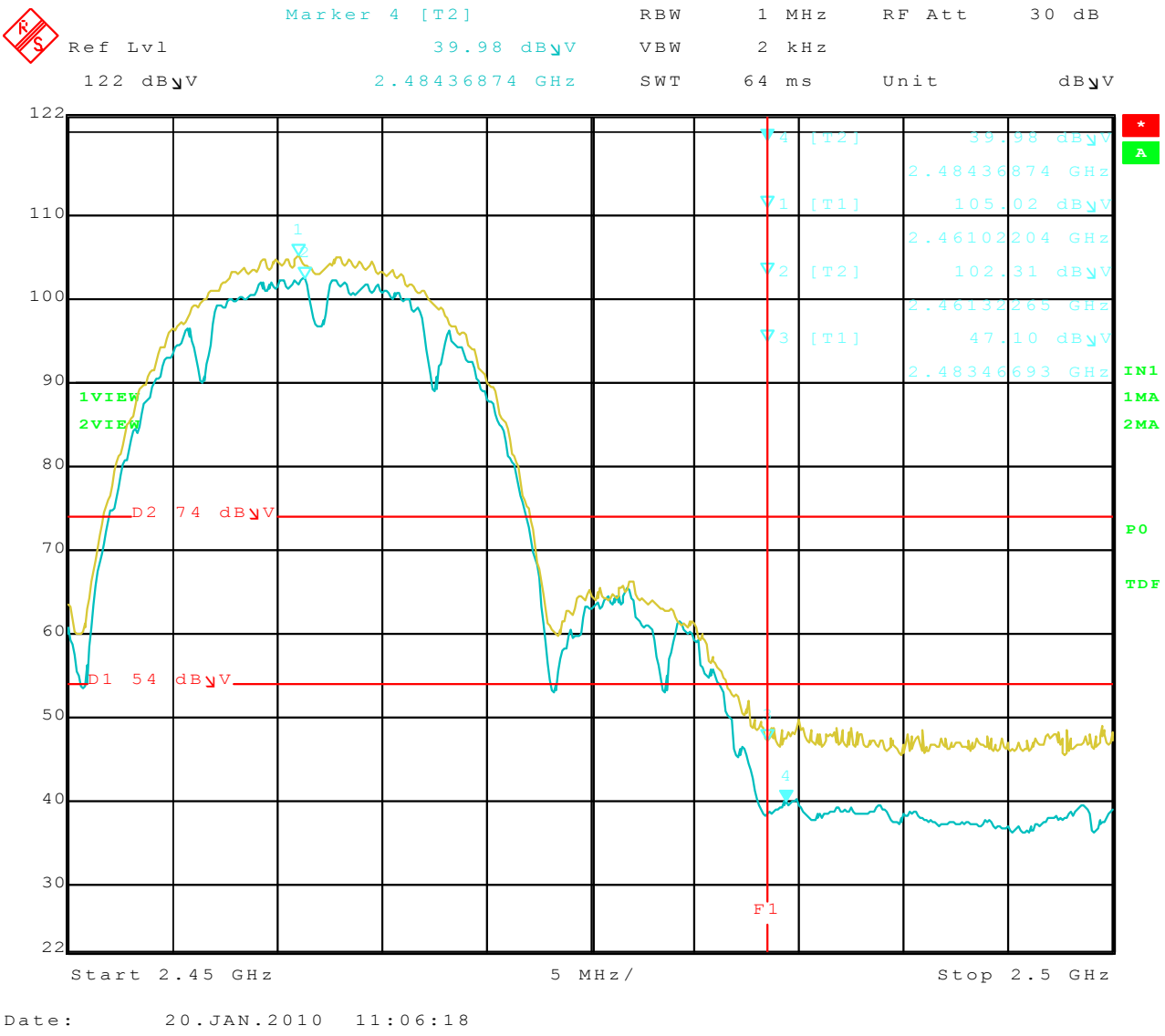
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	115.08	H	--	--	Peak	2.5	180	Fundamental of Channel 1
2412	111.85	H	--	--	Avg	2.5	180	@ 3 Meters
2332.35	63.51	H	74	-10.49	Peak	2.5	180	**No** Marker Delta Method
2330.05	52.84	H	54	-1.16	Avg	2.5	180	Method Used
2437	115.59	H	--	--	Peak	2.5	180	Fundamental of Channel 6
2437	111.93	H	--	--	Avg	2.5	180	@ 3 meters
2462	117	H	--	--	Peak	2.25	180	Fundamental of Channel 11
2462	114.4	H	--	--	Avg	2.25	180	@ 3 Meters
2483.5	59.72	H	74	-14.28	Peak	2.25	180	**No** Marker Delta Method
2484.6	52.03	H	54	-1.97	Peak	2.25	180	Method Used



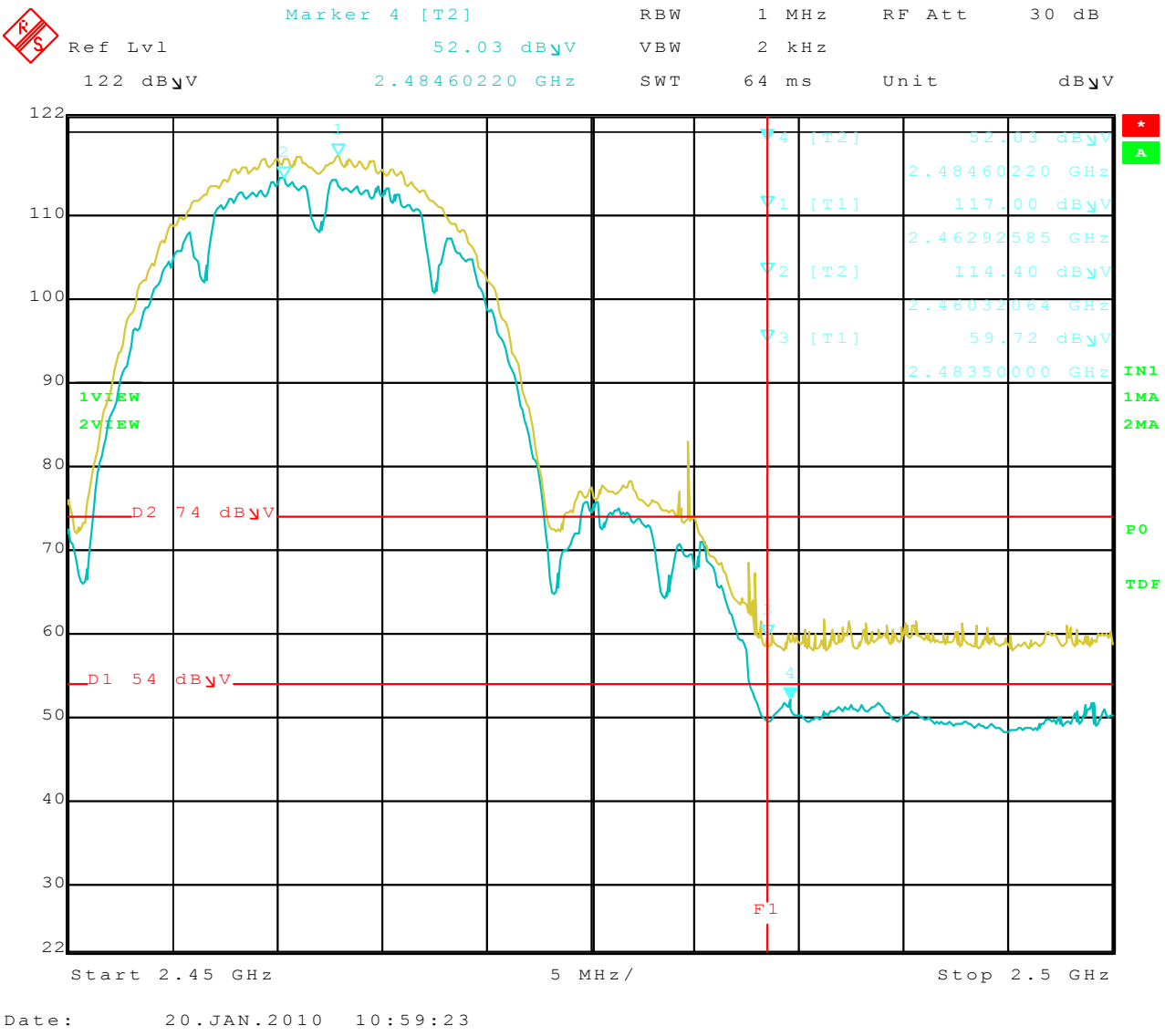
Band Edge – Channel 1 – Vertical Polarization – X-Axis – 54 Mpbs – Worst Case



Band Edge – Channel 1 – Horizontal Polarization – X-Axis – 54 Mpbs – Worst Case



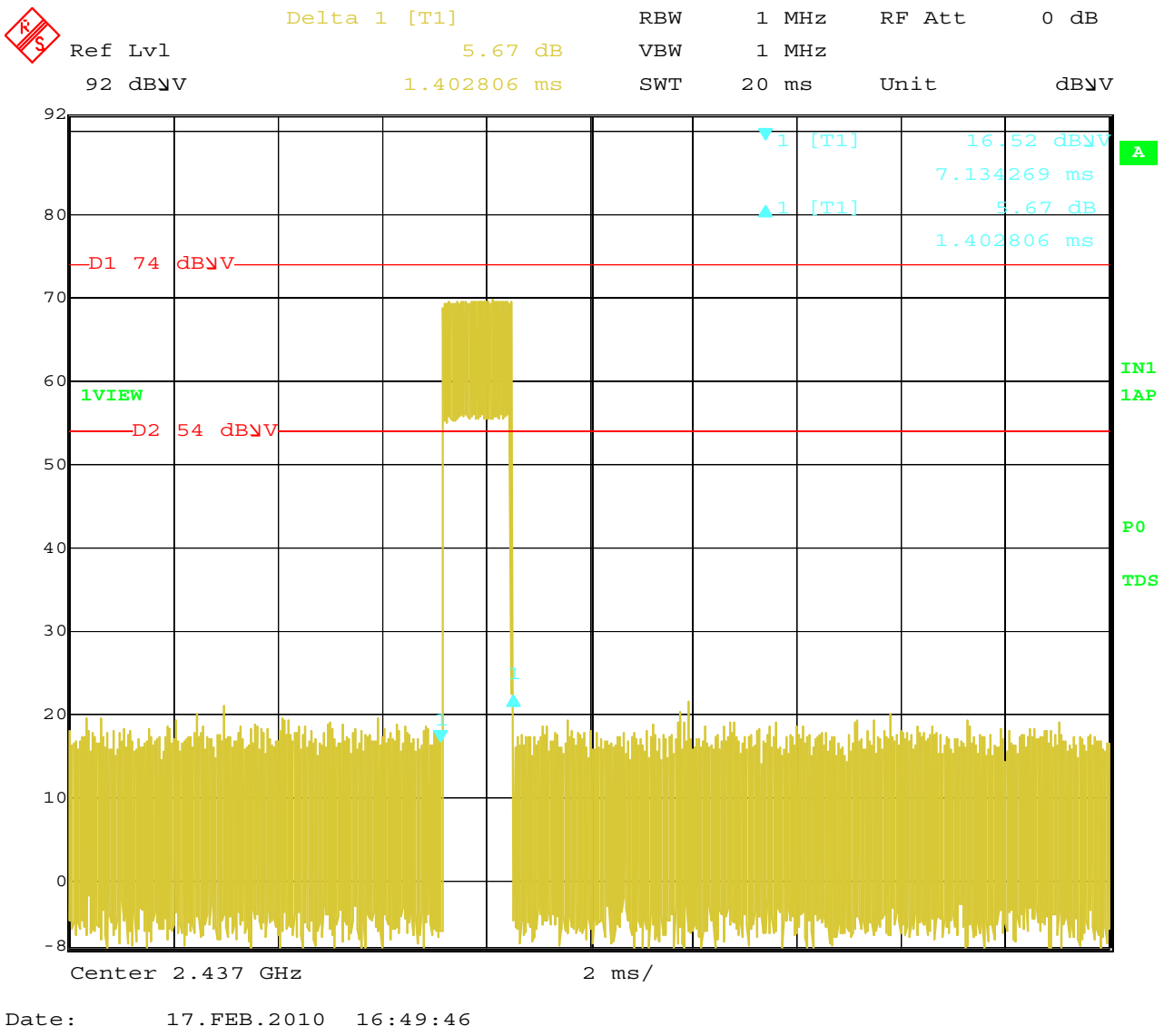
Band Edge – Channel 11 – Vertical Polarization – X-Axis – 54 Mpbs – Worst Case



Band Edge – Channel 11 – Horizontal Polarization – X-Axis – 54 Mpbs – Worst Case

DUTY CYCLE INFORMATION

DATA SHEETS



Time of One Pulse = 1.402806 mS