APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	47.25	V	74	-26.75	Peak	2.72	180	
4824	44.8	V	54	-9.2	Avg	2.72	180	
7236	47.27	V	74	-26.73	Peak	1.7	225	
7236	40.46	V	54	-13.54	Avg	1.7	225	
9648	53.13	V	--	--	Peak	2.4	0	Not in Restricted Band
9648	48.53	V	--	--	Avg	2.4	0	Not in Restricted Band
12060	48.13	V	74	-25.87	Peak	1.79	315	
12060	35.74	V	54	-18.26	Avg	1.79	315	
14472	50.83	V	74	-23.17	Peak	1.79	270	
14472	37.95	V	54	-16.05	Avg	1.79	270	
16884	48.4	V	--	--	Peak	2.68	180	Not in Restricted Band
16884	36.58	V	--	--	Avg	2.68	180	Not in Restricted Band
19296		V	74	-74	Peak			No Emission
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emission
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emission
24120		V	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.09	H	74	-25.91	Peak	2.53	45	
4824	45.39	H	54	-8.61	Avg	2.53	45	
7236	44.7	H	74	-29.3	Peak	2.6	135	
7236	33.1	H	54	-20.9	Avg	2.6	135	
9648	51	H	--	--	Peak	1.88	45	Not in Restricted Band
9648	43.4	H	--	--	Avg	1.88	45	Not in Restricted Band
12060	49.6	H	74	-24.4	Peak	1.55	180	
12060	35.57	H	54	-18.43	Avg	1.55	180	
14472	51.75	H	74	-22.25	Peak	1.55	225	
14472	37.86	H	54	-16.14	Avg	1.55	225	
16884	51.99	H	--	--	Peak	1.55	315	Not in Restricted Band
16884	36.8	H	--	--	Avg	1.55	315	Not in Restricted Band
19296		H	74	-74	Peak			No Emission
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emission
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emission
24120		H	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.8	V	74	-28.2	Peak	3.33	135	
4874	42.39	V	54	-11.61	Avg	3.33	135	
7311	47.54	V	74	-26.46	Peak	1.27	225	
7311	41.03	V	54	-12.97	Avg	1.27	225	
9748	51.75	V	--	--	Peak	1.72	315	Not in Restricted Band
9748	45.14	V	--	--	Avg	1.72	315	Not in Restricted Band
12185	50.34	V	74	-23.66	Peak	2.34	315	
12185	35.98	V	54	-18.02	Avg	2.34	315	
14622	50.37	V	--	--	Peak	2.26	225	Not in Restricted Band
14622	36.68	V	--	--	Avg	2.26	225	Not in Restricted Band
17059	51.82	V	--	--	Peak	2.24	135	Not in Restricted Band
17059	37.81	V	--	--	Avg	2.24	135	Not in Restricted Band
19496		V	74	-74	Peak			No Emission
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emission
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emission
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emission
24370		V	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	47.3	H	74	-26.7	Peak	2.56	45	
4874	43.76	H	54	-10.24	Avg	2.56	45	
7311	44.66	H	74	-29.34	Peak	2.55	135	
7311	32.74	H	54	-21.26	Avg	2.55	135	
9748	51.66	H	--	--	Peak	3.57	45	Not in Restricted Band
9748	45.87	H	--	--	Avg	3.57	45	Not in Restricted Band
12185	49.94	H	74	-24.06	Peak	2.9	45	
12185	35.81	H	54	-18.19	Avg	2.9	45	
14622	51.55	H	--	--	Peak	2.82	45	Not in Restricted Band
14622	36.84	H	--	--	Avg	2.82	45	Not in Restricted Band
17059	51.32	H	--	--	Peak	2.34	270	Not in Restricted Band
17059	37.53	H	--	--	Avg	2.34	270	Not in Restricted Band
19496		H	74	-74	Peak			No Emission
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emission
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emission
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emission
24370		H	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	48	V	74	-26	Peak	2.66	135	
4924	44.56	V	54	-9.44	Avg	2.66	135	
7386	44.18	V	74	-29.82	Peak	1.78	225	
7386	33.79	V	54	-20.21	Avg	1.78	225	
9848	51.21	V	--	--	Peak	2.87	315	Not in Restricted Band
9848	45.64	V	--	--	Avg	2.87	315	Not in Restricted Band
12310	48.75	V	74	-25.25	Peak	2.02	315	
12310	34.71	V	54	-19.29	Avg	2.02	315	
14772	50.32	V	--	--	Peak	2.72	315	Not in Restricted Band
14772	36.37	V	--	--	Avg	2.72	315	Not in Restricted Band
17234	50.23	V	--	--	Peak	1.7	0	Not in Restricted Band
17234	35.89	V	--	--	Avg	1.7	0	Not in Restricted Band
19696		V	74	-74	Peak			No Emission
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emission
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emission
24620		V	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	47.72	H	74	-26.28	Peak	2.5	45	
4924	44.27	H	54	-9.73	Avg	2.5	45	
7386	42.4	H	74	-31.6	Peak	2.56	45	
7386	29.38	H	54	-24.62	Avg	2.56	45	
9848	49.26	H	--	--	Peak	3.58	45	Not in Restricted Band
9848	43.78	H	--	--	Avg	3.58	45	Not in Restricted Band
12310	49.46	H	74	-24.54	Peak	2.36	45	
12310	34.92	H	54	-19.08	Avg	2.36	45	
14772	50.24	H	--	--	Peak	2.23	45	Not in Restricted Band
14772	36.06	H	--	--	Avg	2.23	45	Not in Restricted Band
17234	49.74	H	--	--	Peak	3.19	225	Not in Restricted Band
17234	35.72	H	--	--	Avg	3.19	225	Not in Restricted Band
19696		H	74	-74	Peak			No Emission
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emission
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emission
24620		H	--	--	Avg			Detected

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Receive Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	47.54	V	80	-32.46	Peak	2.72	180	Fundamental of LO for
4874	44.19	V	60	-15.81	Avg	2.72	180	Channel 6
9748	56.98	V	80	-23.02	Peak	1.42	180	2nd Harmonic of LO for
9748	53.88	V	60	-6.12	Avg	1.42	180	Channel 6
14622	51.2	V	80	-28.8	Peak	2.02	225	3rd Harmonic of LO for
14622	38.04	V	60	-21.96	Avg	2.02	225	Channel 6
4874	46.9	H	80	-33.1	Peak	2.56	270	Fundamental of LO for
4874	43.23	H	60	-16.77	Avg	2.56	270	Channel 6
9748	58.8	H	80	-21.2	Peak	1.57	180	2nd Harmonic of LO for
9748	55.98	H	60	-4.02	Avg	1.57	180	Channel 6
14622	51.98	H	80	-28.02	Peak	1.57	225	3rd Harmonic of LO for
14622	37.92	H	60	-22.08	Avg	1.57	225	Channel 6

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics
Customer : Troy Group
Manufacturer : Troy Group
Eut name : Wireless Serial Server
Model : TROY500
Serial # : EUT #7, CF #8
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Qualification Scan - Vertical Polarization - 10 kHz to 1000 MHz
RS-232 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

Page : 1/1
Date : 9/24/2004
Time : 10:36:52
Lab : D
Test Distance : 3 Meters

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
1V	198.000	48.80	1.38	17.24	37.59	29.83	43.50	-13.67
2V	264.000	53.70	1.60	16.66	37.56	34.40	46.00	-11.60
3V	124.989	64.60	1.10	12.90	37.80	40.80	43.50	-2.70
4V	124.989Qp	62.22	1.10	12.90	37.80	38.42	43.50	-5.08
5V	150.023	45.40	1.20	12.10	37.50	21.20	43.50	-22.30
6V	162.523	51.90	1.20	12.99	37.50	28.59	43.50	-14.91
7V	200.023	50.40	1.40	17.40	37.60	31.60	43.50	-11.90
8V	225.023	44.80	1.50	15.92	37.60	24.62	46.00	-21.38
9V	250.052	59.90	1.60	14.61	37.50	38.61	46.00	-7.39
10V	300.076	62.20	1.70	13.00	37.60	39.30	46.00	-6.70
11V	325.007	66.50	1.70	13.58	37.55	44.24	46.00	-1.76
12V	325.008Qp	63.72	1.70	13.58	37.55	41.46	46.00	-4.54
13V	350.050	54.00	1.70	14.13	37.50	32.33	46.00	-13.67
14V	375.050	51.00	1.91	14.63	37.50	30.04	46.00	-15.96
15V	400.050	47.70	2.10	15.10	37.50	27.40	46.00	-18.60
16V	329.989	64.90	1.70	13.70	37.54	42.76	46.00	-3.24
17V	329.989Qp	63.37	1.70	13.70	37.54	41.23	46.00	-4.77
18V	396.011	52.60	2.07	15.03	37.50	32.20	46.00	-13.80
19V	462.011	50.10	2.15	16.13	37.03	31.36	46.00	-14.64
20V	528.025	48.00	2.30	17.30	37.21	30.38	46.00	-15.62
21V	594.025	38.80	2.48	18.59	37.12	22.74	46.00	-23.26
22V	660.025	41.70	2.58	19.13	37.34	26.08	46.00	-19.92
23V	726.037	37.00	2.90	19.92	37.10	22.72	46.00	-23.28
24V	858.013	45.10	2.93	20.94	36.28	32.69	46.00	-13.31
25V	475.028	47.20	2.20	16.33	37.05	28.68	46.00	-17.32
26V	500.047	50.20	2.30	16.70	37.10	32.10	46.00	-13.90
27V	525.104	40.30	2.30	17.24	37.20	22.63	46.00	-23.37
28V	550.104	41.00	2.30	17.75	37.30	23.75	46.00	-22.25
29V	650.015	45.10	2.50	19.06	37.40	29.26	46.00	-16.74
30V	675.002	45.90	2.70	19.23	37.25	30.59	46.00	-15.41
31V	696.610	44.20	2.87	19.38	37.12	29.33	46.00	-16.67
32V	902.002	42.00	3.10	20.74	36.68	29.16	46.00	-16.84

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics
Customer : Troy Group
Manufacturer : Troy Group
Eut name : Wireless Serial Server
Model : TROY500
Serial # : EUT #7, CF #8
Specification : FCC Class B

Page : 1/1
Date : 9/24/2004
Time : 8:28:41
Lab : D
Test Distance : 3 Meters

Distance correction factor (20 * log(test/spec)) : 0.00

Test Mode : Qualification Scan - Horizontal Polarization - 10 kHz to 1000 MHz
RS-232 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

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
1H	300.022	66.00	1.70	13.00	37.60	43.10	46.00	-2.90
2H	300.023Qp	63.34	1.70	13.00	37.60	40.44	46.00	-5.56
3H	325.022	66.00	1.70	13.58	37.55	43.74	46.00	-2.26
4H	325.022Qp	63.06	1.70	13.58	37.55	40.80	46.00	-5.20
5H	350.020	58.90	1.70	14.13	37.50	37.23	46.00	-8.77
6H	375.026	49.40	1.91	14.63	37.50	28.44	46.00	-17.56
7H	400.024	50.30	2.10	15.10	37.50	30.00	46.00	-16.00
8H	329.991	62.90	1.70	13.70	37.54	40.76	46.00	-5.24
9H	395.991	55.60	2.07	15.03	37.50	35.20	46.00	-10.80
10H	449.991	38.50	2.10	15.94	37.00	19.54	46.00	-26.46
11H	454.820	59.30	2.12	16.02	37.01	40.43	46.00	-5.57
12H	454.821Qp	57.22	2.12	16.02	37.01	38.35	46.00	-7.65
13H	462.021	39.10	2.15	16.13	37.03	20.36	46.00	-25.64
14H	352.000	53.80	1.72	14.17	37.50	32.18	46.00	-13.82
15H	440.000	45.30	2.10	15.78	37.10	26.09	46.00	-19.91
16H	484.000	44.70	2.24	16.47	37.07	26.34	46.00	-19.66
17H	500.075	51.10	2.30	16.70	37.10	33.00	46.00	-13.00
18H	525.021	41.20	2.30	17.24	37.20	23.53	46.00	-22.47
19H	528.040	49.70	2.30	17.30	37.21	32.08	46.00	-13.92
20H	594.035	41.70	2.48	18.59	37.12	25.64	46.00	-20.36
21H	726.035	38.70	2.90	19.92	37.10	24.42	46.00	-21.58
22H	625.044	51.10	2.50	18.89	37.25	35.23	46.00	-10.77
23H	748.006	46.60	2.90	20.34	37.10	32.74	46.00	-13.26
24H	858.006	37.00	2.93	20.94	36.28	24.59	46.00	-21.41
25H	902.006	42.50	3.10	20.74	36.68	29.66	46.00	-16.34
26H	125.019	53.80	1.10	12.90	37.80	30.00	43.50	-13.50
27H	150.019	51.40	1.20	12.10	37.50	27.20	43.50	-16.30
28H	250.009	63.80	1.60	14.60	37.50	42.50	46.00	-3.50
29H	250.009Qp	62.51	1.60	14.60	37.50	41.21	46.00	-4.79
30H	259.888	59.80	1.60	16.07	37.54	39.92	46.00	-6.08
31H	264.011	60.70	1.60	16.66	37.56	41.40	46.00	-4.60
32H	264.011Qp	59.26	1.60	16.66	37.56	39.96	46.00	-6.04
33H	275.000	52.50	1.60	18.20	37.60	34.70	46.00	-11.30

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics — **Page** : 1/1
Customer : Troy Group — **Date** : 9/24/2004
Manufacturer : Troy Group — **Time** : 11:28:51
Eut name : Wireless Serial Server — **Lab** : D
Model : TROY500 — **Test Distance** : 3 Meters
Serial # : EUT #7, CF #8
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Qualification Scan - Vertical Polarization - 10 kHz to 1000 MHz
RS-422 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

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
1V	124.986	63.70	1.10	12.90	37.80	39.90	43.50	-3.60
2V	124.986Qp	62.19	1.10	12.90	37.80	38.39	43.50	-5.11
3V	150.000	53.90	1.20	12.10	37.50	29.70	43.50	-13.80
4V	250.029Qp	62.91	1.60	14.60	37.50	41.61	46.00	-4.39
5V	250.039	64.20	1.60	14.61	37.50	42.91	46.00	-3.09
6V	264.027	55.20	1.60	16.66	37.56	35.90	46.00	-10.10
7V	300.012	61.70	1.70	13.00	37.60	38.80	46.00	-7.20
8V	325.012	65.80	1.70	13.58	37.55	43.54	46.00	-2.46
9V	325.013Qp	63.79	1.70	13.58	37.55	41.53	46.00	-4.47
10V	330.000	61.00	1.70	13.70	37.54	38.86	46.00	-7.14
11V	350.000	52.60	1.70	14.13	37.50	30.93	46.00	-15.07
12V	375.000	54.60	1.91	14.63	37.50	33.64	46.00	-12.36
13V	395.989	53.80	2.07	15.03	37.50	33.40	46.00	-12.60
14V	400.038	50.40	2.10	15.10	37.50	30.10	46.00	-15.90
15V	425.038	46.50	2.10	15.54	37.24	26.89	46.00	-19.11
16V	450.038	49.60	2.10	15.95	37.00	30.65	46.00	-15.35
17V	461.989	52.60	2.15	16.13	37.02	33.86	46.00	-12.14
18V	475.038	50.50	2.20	16.33	37.05	31.98	46.00	-14.02
19V	500.038	57.80	2.30	16.70	37.10	39.70	46.00	-6.30
20V	527.989	50.20	2.30	17.30	37.21	32.58	46.00	-13.42
21V	593.989	39.10	2.48	18.59	37.12	23.04	46.00	-22.96
22V	625.038	45.70	2.50	18.89	37.25	29.83	46.00	-16.17
23V	725.989	37.50	2.90	19.92	37.10	23.22	46.00	-22.78
24V	750.085	51.60	2.90	20.38	37.10	37.78	46.00	-8.22
25V	875.085	43.10	3.00	20.84	36.45	30.49	46.00	-15.51

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics — **Page** : 1/1
Customer : Troy Group — **Date** : 9/24/2004
Manufacturer : Troy Group — **Time** : 12:24:57
Eut name : Wireless Serial Server — **Lab** : D
Model : TROY500 — **Test Distance** : 3 Meters
Serial # : EUT #7, CF #8
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Qualification Scan - Horizontal Polarization - 10 kHz to 1000 MHz
RS-422 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

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
1H	250.001	65.10	1.60	14.60	37.50	43.80	46.00	-2.20
2H	250.001Qp	63.01	1.60	14.60	37.50	41.71	46.00	-4.29
3H	124.981	56.10	1.10	12.90	37.80	32.30	43.50	-11.20
4H	275.000	54.20	1.60	18.20	37.60	36.40	46.00	-9.60
5H	263.981	62.20	1.60	16.66	37.56	42.90	46.00	-3.10
6H	263.982Qp	60.75	1.60	16.66	37.56	41.45	46.00	-4.55
7H	300.016	64.20	1.70	13.00	37.60	41.30	46.00	-4.70
8H	300.016Qp	61.96	1.70	13.00	37.60	39.06	46.00	-6.94
9H	325.014	62.50	1.70	13.58	37.55	40.24	46.00	-5.76
10H	350.056	54.60	1.70	14.13	37.50	32.93	46.00	-13.07
11H	400.056	48.10	2.10	15.10	37.50	27.80	46.00	-18.20
12H	500.040	52.90	2.30	16.70	37.10	34.80	46.00	-11.20
13H	329.997	61.50	1.70	13.70	37.54	39.36	46.00	-6.64
14H	395.997	49.20	2.07	15.03	37.50	28.80	46.00	-17.20
15H	461.997	39.50	2.15	16.13	37.02	20.76	46.00	-25.24
16H	527.997	48.00	2.30	17.30	37.21	30.38	46.00	-15.62
17H	725.997	37.50	2.90	19.92	37.10	23.22	46.00	-22.78
18H	625.037	47.00	2.50	18.89	37.25	31.13	46.00	-14.87
19H	875.120	43.90	3.00	20.84	36.45	31.29	46.00	-14.71

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics
Customer : Troy Group
Manufacturer : Troy Group
Eut name : Wireless Serial Server
Model : TROY500
Serial # : EUT #7, CF #8
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Qualification Scan - Vertical Polarization - 10 kHz to 1000 MHz
RS-485 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

Page : 1/1
Date : 9/24/2004
Time : 15:19:14
Lab : D
Test Distance : 3 Meters

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
1V	124.988	57.70	1.10	12.90	37.80	33.90	43.50	-9.60
2V	250.054	61.30	1.60	14.61	37.50	40.01	46.00	-5.99
3V	250.055Qp	60.01	1.60	14.61	37.50	38.72	46.00	-7.28
4V	263.983	51.00	1.60	16.66	37.56	31.70	46.00	-14.30
5V	198.030	34.90	1.39	17.24	37.59	15.93	43.50	-27.57
6V	325.030	53.90	1.70	13.58	37.55	31.64	46.00	-14.36
7V	300.030	53.10	1.70	13.00	37.60	30.20	46.00	-15.80
8V	330.030	50.40	1.70	13.70	37.54	28.26	46.00	-17.74
9V	350.034	52.60	1.70	14.13	37.50	30.93	46.00	-15.07
10V	364.989	49.80	1.83	14.43	37.50	28.56	46.00	-17.44
11V	389.865	49.60	2.02	14.91	37.50	29.04	46.00	-16.96
12V	396.006	44.80	2.07	15.03	37.50	24.40	46.00	-21.60
13V	400.006	49.20	2.10	15.10	37.50	28.90	46.00	-17.10
14V	462.069	47.80	2.15	16.13	37.03	29.06	46.00	-16.94
15V	528.069	43.20	2.30	17.30	37.21	25.58	46.00	-20.42
16V	500.069	53.40	2.30	16.70	37.10	35.30	46.00	-10.70
17V	525.069	44.60	2.30	17.24	37.20	26.93	46.00	-19.07
18V	625.069	54.20	2.50	18.89	37.25	38.33	46.00	-7.67
19V	875.069	44.30	3.00	20.84	36.45	31.69	46.00	-14.31
20V	452.020	58.10	2.11	15.98	37.00	39.18	46.00	-6.82

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics — **Page** : 1/1
Customer : Troy Group — **Date** : 9/24/2004
Manufacturer : Troy Group — **Time** : 14:35:58
Eut name : Wireless Serial Server — **Lab** : D
Model : TROY500 — **Test Distance** : 3 Meters
Serial # : EUT #7, CF #8
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Qualification Scan - Horizontal Polarization - 10 kHz to 1000 MHz
RS-485 Mode and Wireless Mode
Clocks: 25 MHz, 44 MHz, 66 MHz
Test Engineer: Kyle_Fujimoto

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
1H	124.988	61.80	1.10	12.90	37.80	38.00	43.50	-5.50
2H	250.002	54.90	1.60	14.60	37.50	33.60	46.00	-12.40
3H	263.988	59.50	1.60	16.66	37.56	40.20	46.00	-5.80
4H	325.014	64.40	1.70	13.58	37.55	42.14	46.00	-3.86
5H	325.014Qp	61.51	1.70	13.58	37.55	39.25	46.00	-6.75
6H	329.989	57.20	1.70	13.70	37.54	35.06	46.00	-10.94
7H	350.018	63.90	1.70	14.13	37.50	42.23	46.00	-3.77
8H	350.018Qp	60.91	1.70	14.13	37.50	39.24	46.00	-6.76
9H	375.023	54.80	1.91	14.63	37.50	33.84	46.00	-12.16
10H	395.716	55.30	2.07	15.02	37.50	34.89	46.00	-11.11
11H	400.023	51.50	2.10	15.10	37.50	31.20	46.00	-14.80
12H	425.213	54.50	2.10	15.54	37.24	34.90	46.00	-11.10
13H	462.085	46.80	2.15	16.13	37.03	28.06	46.00	-17.94
14H	500.066	51.10	2.30	16.70	37.10	33.00	46.00	-13.00
15H	525.066	43.00	2.30	17.24	37.20	25.33	46.00	-20.67
16H	625.066	50.60	2.50	18.89	37.25	34.73	46.00	-11.27

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Digital Portion - 1 GHz to 25 GHz
RS-232 Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1102	43.76	H	74	-30.24	Peak	1	270	
1102	28.7	H	54	-25.3	Avg	1	270	
1234.1	41.18	H	74	-32.82	Peak	1.58	180	
1234.1	25.43	H	54	-28.57	Avg	1.58	180	
1102	41.49	V	74	-32.51	Peak	1.19	135	
1102	28.06	V	54	-25.94	Avg	1.19	135	
1234.1	39.38	V	74	-34.62	Peak	1.16	180	
1234.1	25.66	V	54	-28.34	Avg	1.16	180	

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Digital Portion - 1 GHz to 25 GHz
RS-422 Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1102	41.09	H	74	-32.91	Peak	1.54	180	
1102	26.41	H	54	-27.59	Avg	1.54	180	
1234.1	39.68	H	74	-34.32	Peak	1.52	180	
1234.1	24.16	H	54	-29.84	Avg	1.52	180	
1102	43.8	V	74	-30.2	Peak	1.62	135	
1102	27.99	V	54	-26.01	Avg	1.62	135	
1234.1	39.68	V	74	-34.32	Peak	1.29	225	
1234.1	24.34	V	54	-29.66	Avg	1.29	225	

FCC 15.247

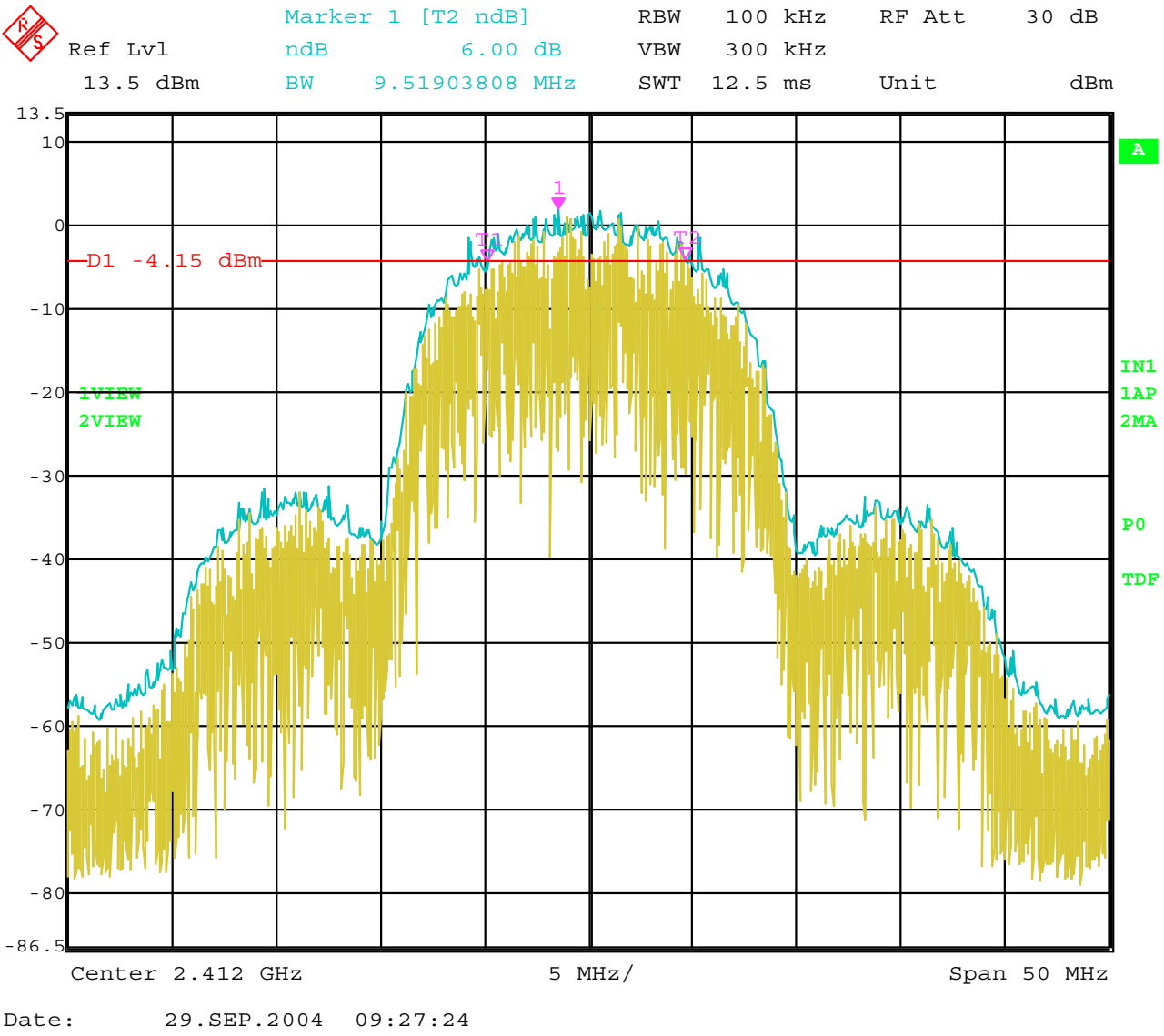
Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Digital Portion - 1 GHz to 25 GHz
RS-485 Mode

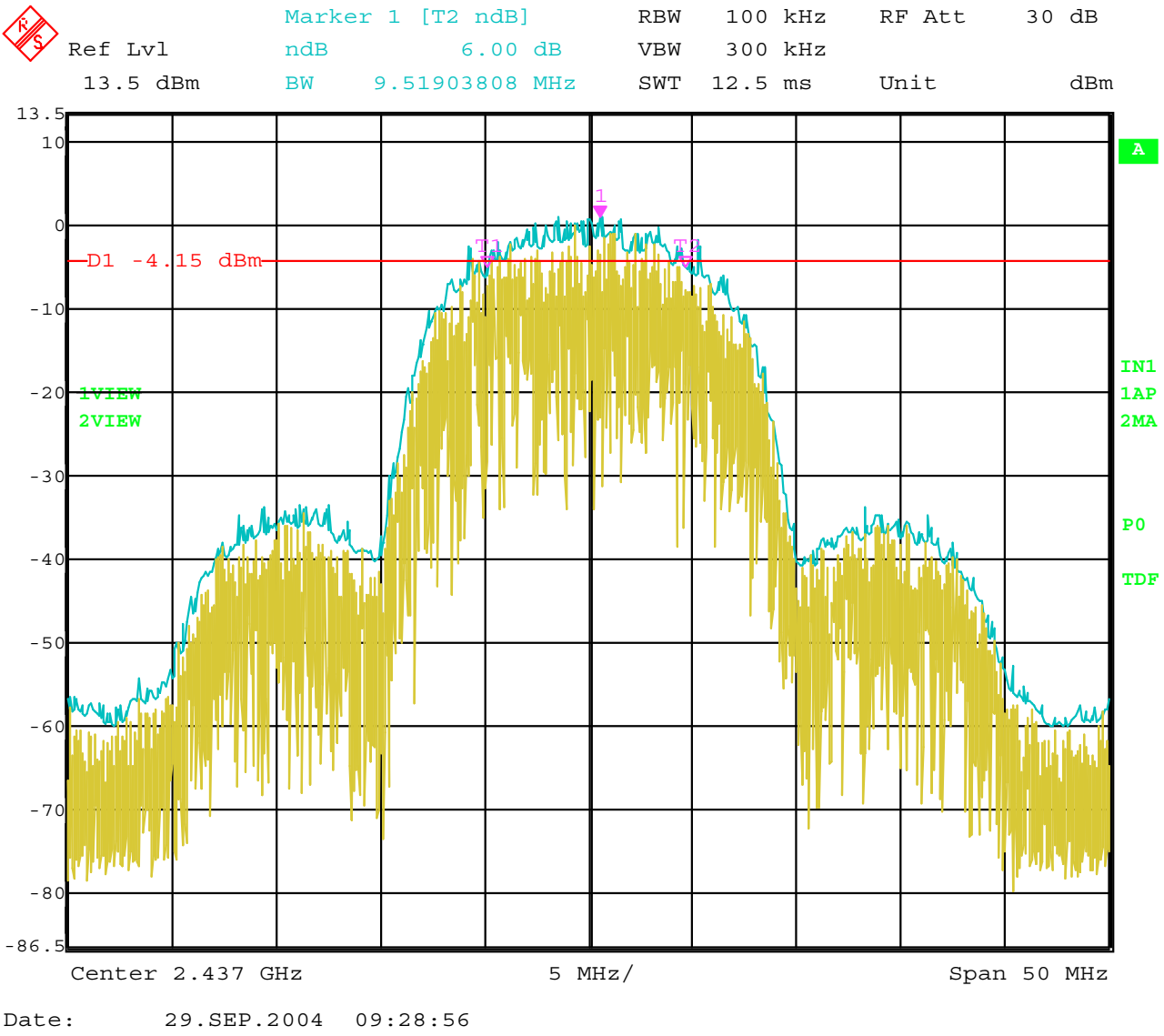
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1102	44.43	H	74	-29.57	Peak	1	225	
1102	27.45	H	54	-26.55	Avg	1	225	
1234.1	36.24	H	74	-37.76	Peak	1.11	270	
1234.1	21.51	H	54	-32.49	Avg	1.11	270	
1102	42.85	V	74	-31.15	Peak	1.46	225	
1102	27.35	V	54	-26.65	Avg	1.46	225	
1234.1	35.87	V	74	-38.13	Peak	1.5	180	
1234.1	21.28	V	54	-32.72	Avg	1.5	180	

-6 dB BANDWIDTH

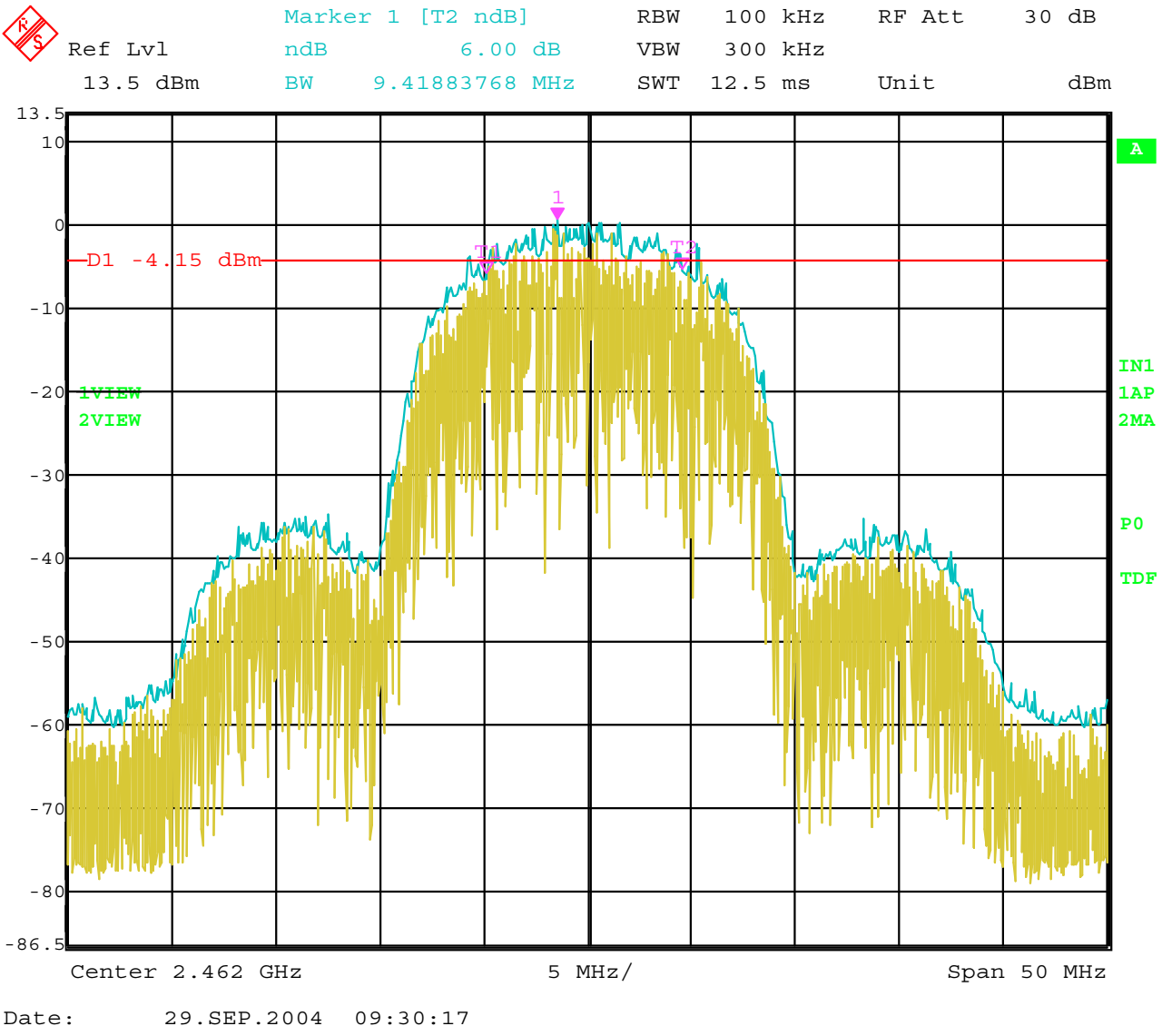
DATA SHEETS



Bandwidth 6 dB – Channel 1



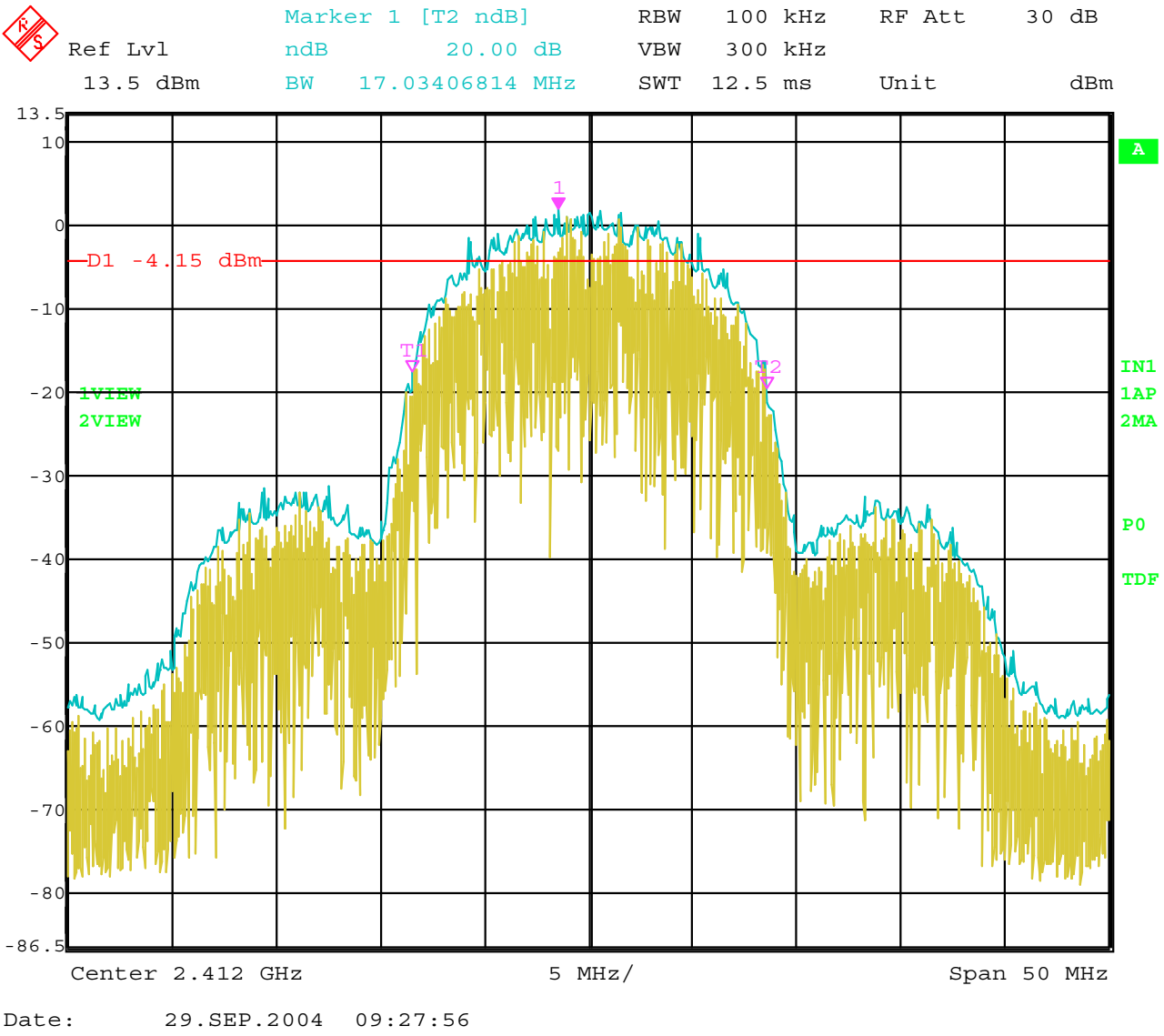
Bandwidth 6 dB – Channel 6



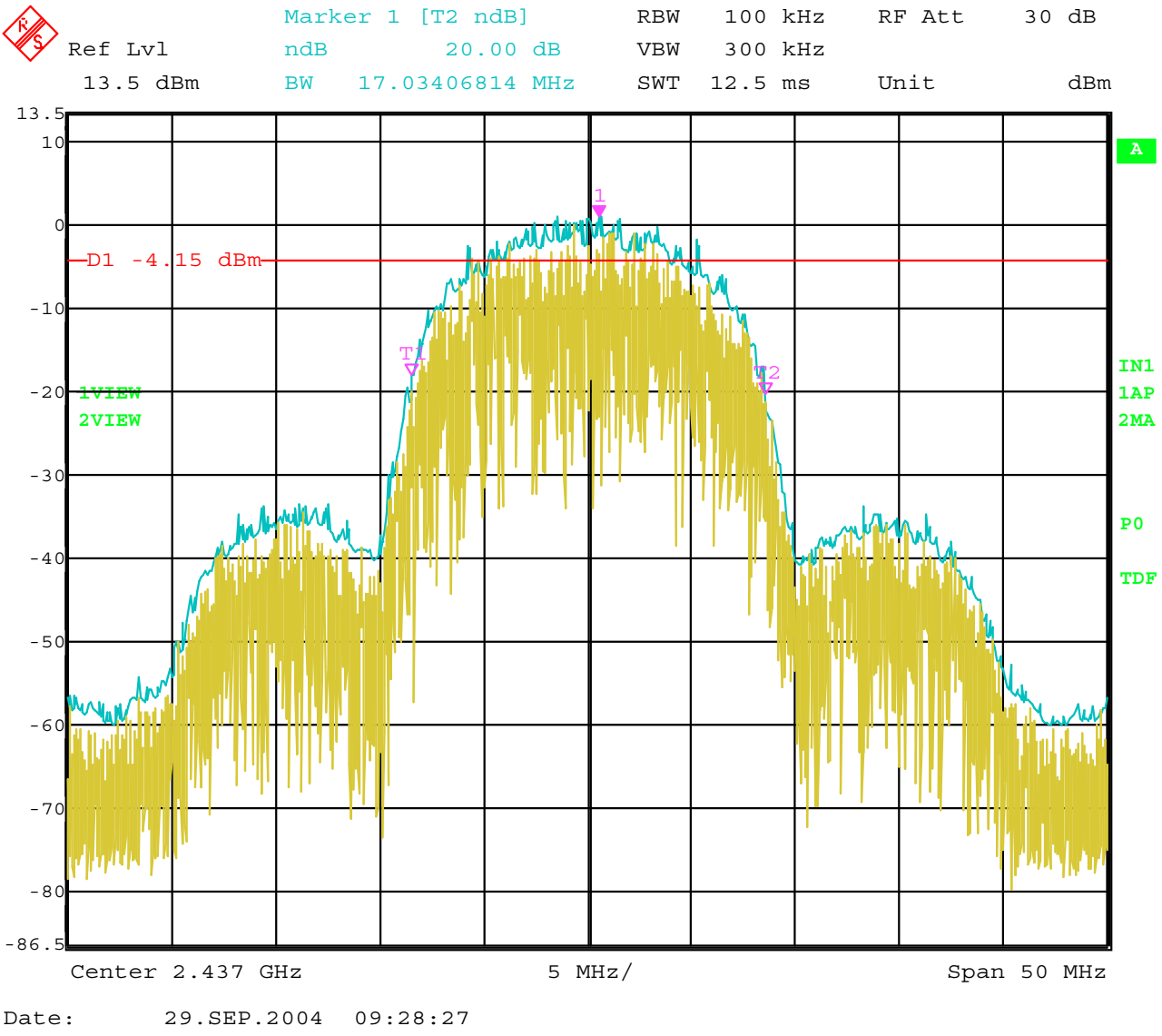
Bandwidth 6 dB – Channel 11

-20 dB BANDWIDTH

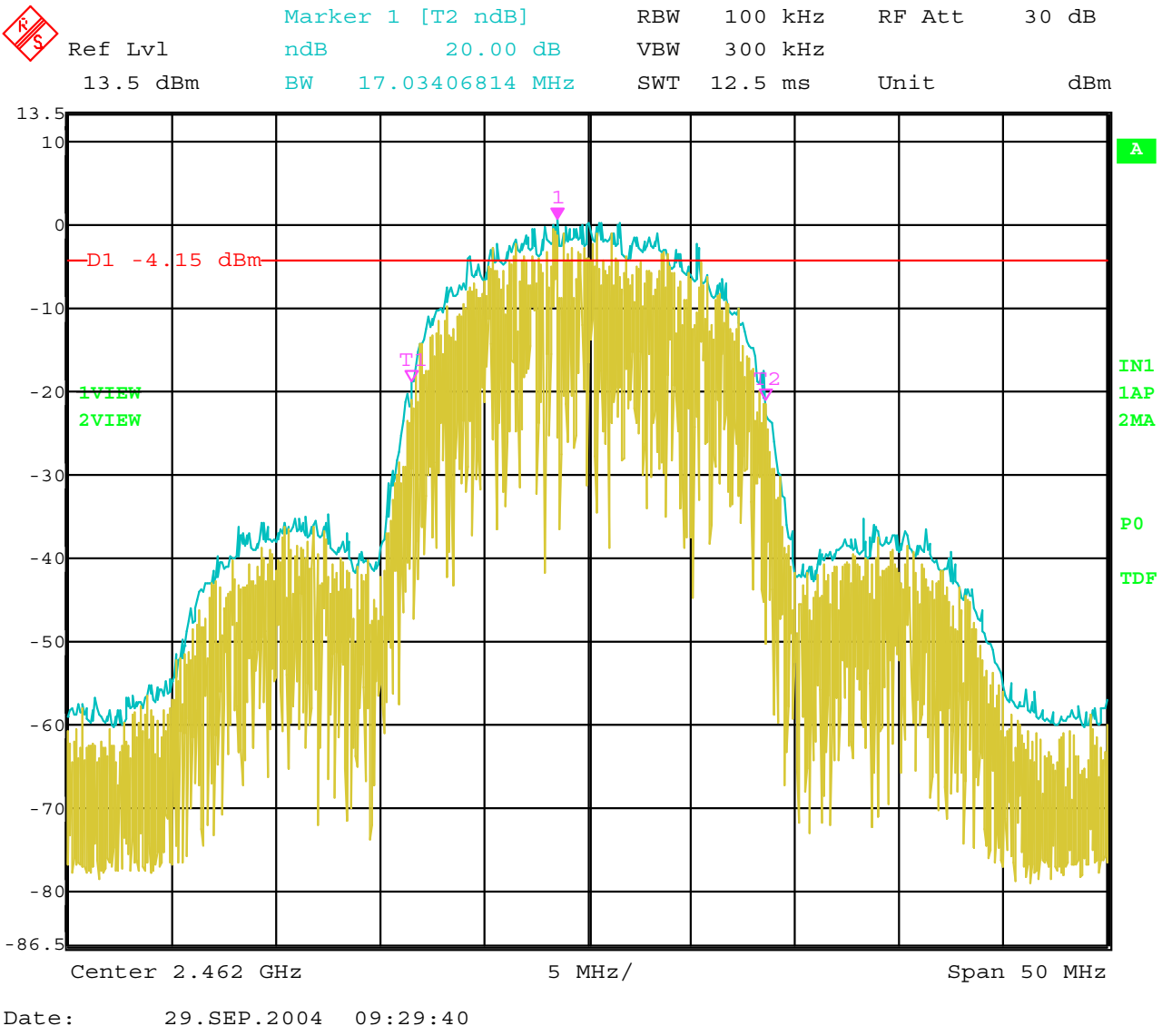
DATA SHEETS



Bandwidth 20 dB – Channel 1



Bandwidth 20 dB – Channel 6



Bandwidth 20 dB – Channel 11

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Troy Group, Inc.

Wireless Serial Server

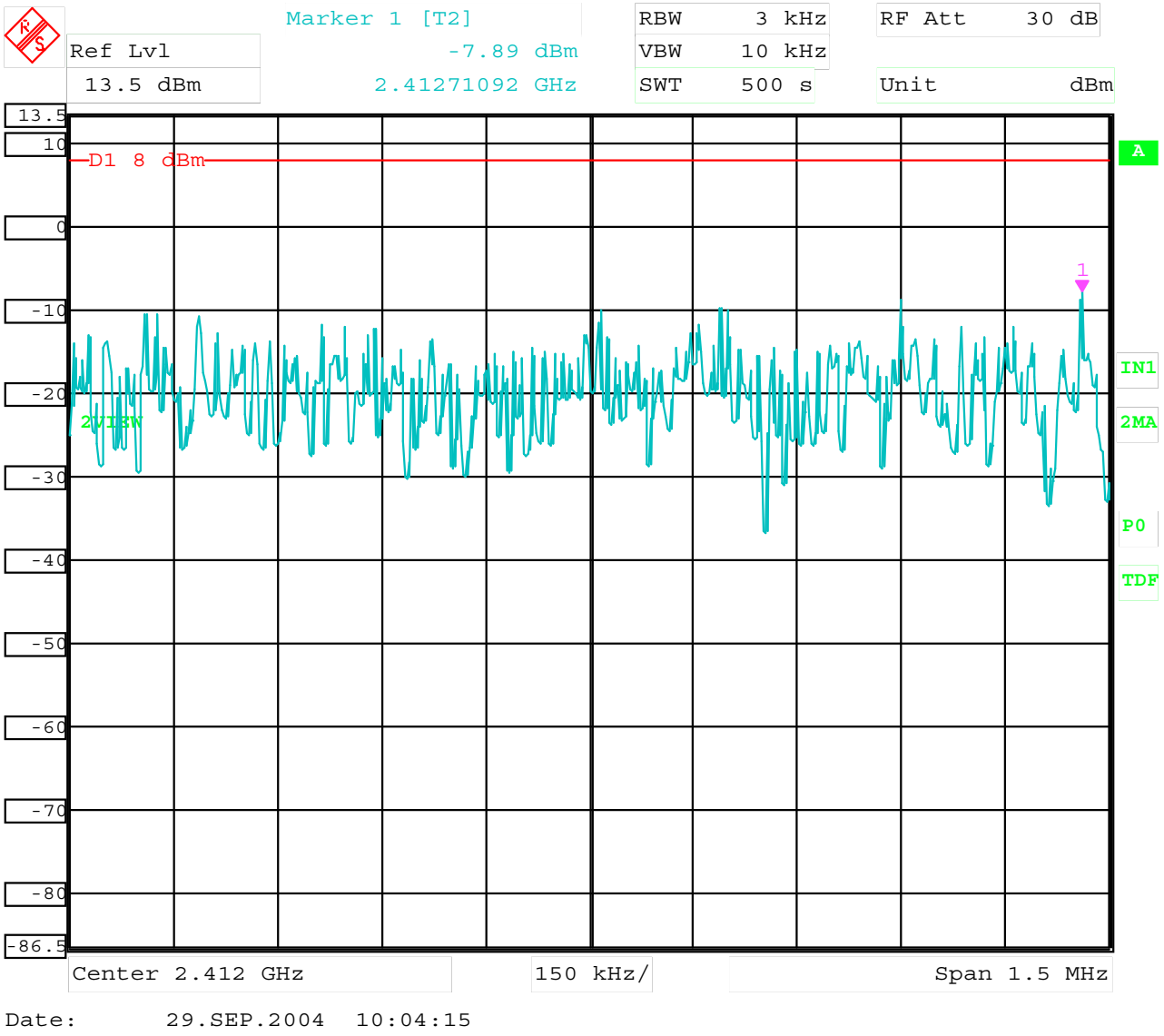
MODEL: TROY500

802.11 b Mode (Worst Case Rate – 1 Mbps)

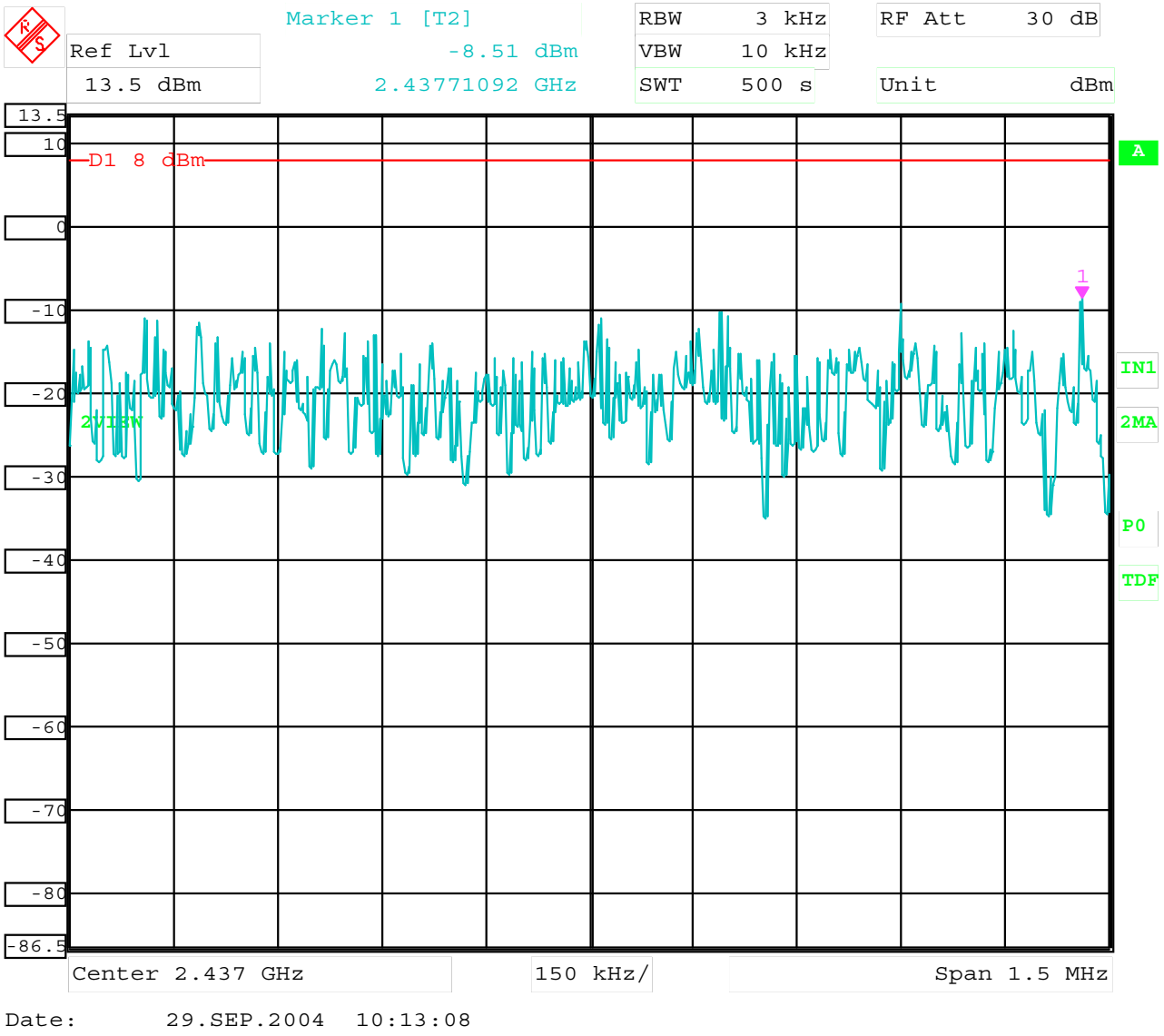
CHANNEL	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	17.29
6 (2437 MHz)	16.83
11 (2462 MHz)	16.42

PEAK POWER SPECTRAL DENSITY

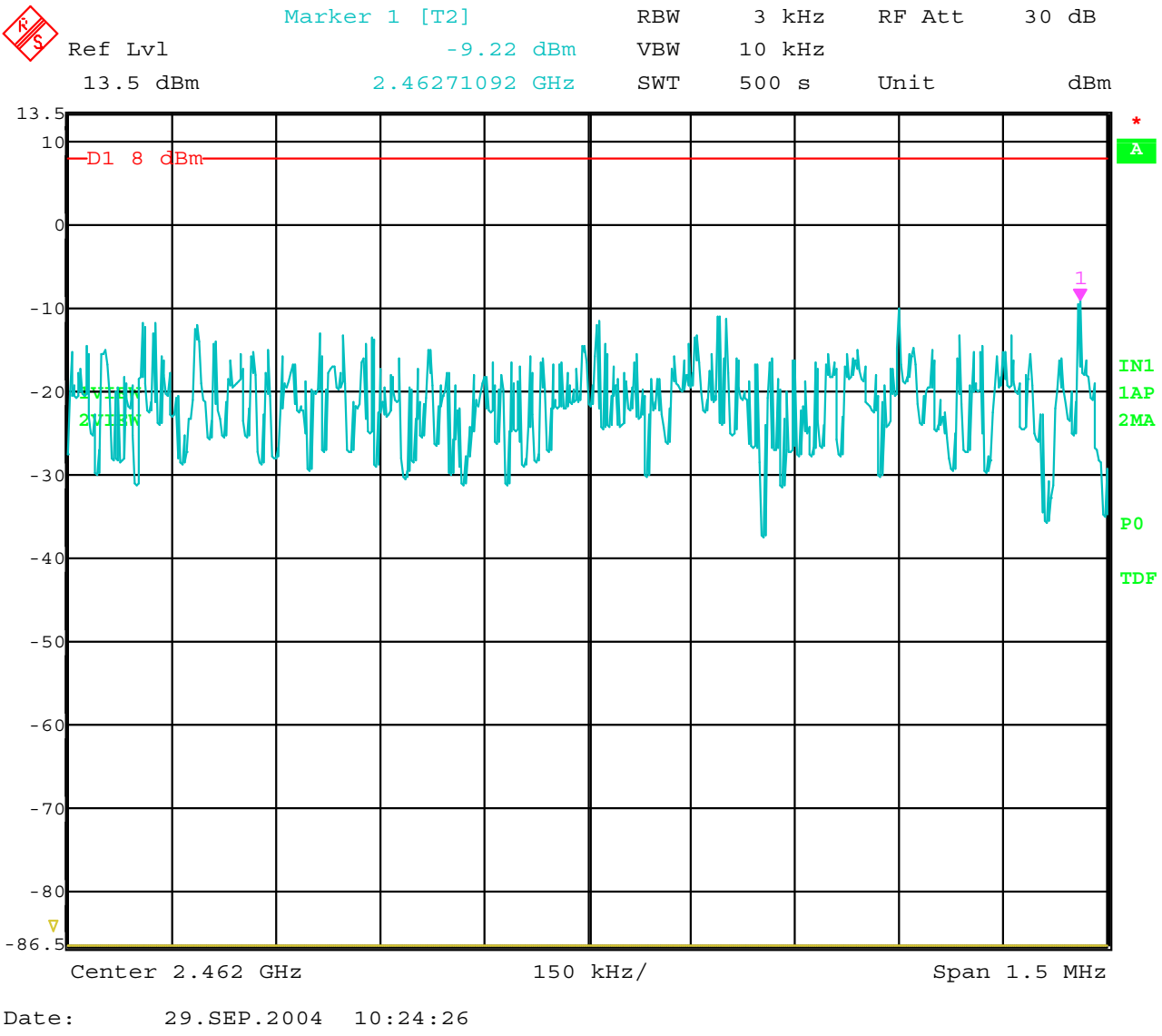
DATA SHEETS



Peak Power Spectral Density Output – Channel 1



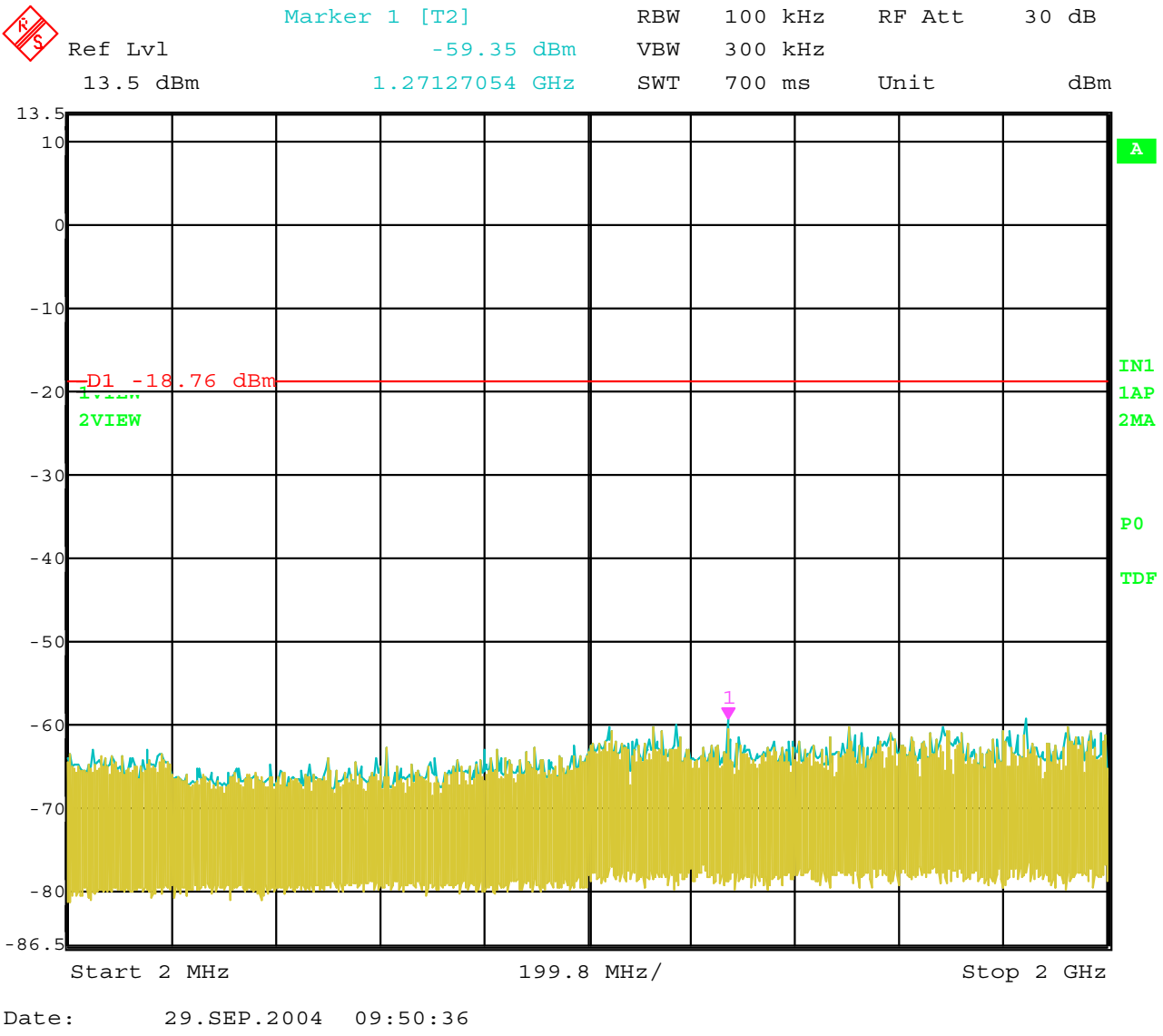
Peak Power Spectral Density Output – Channel 6



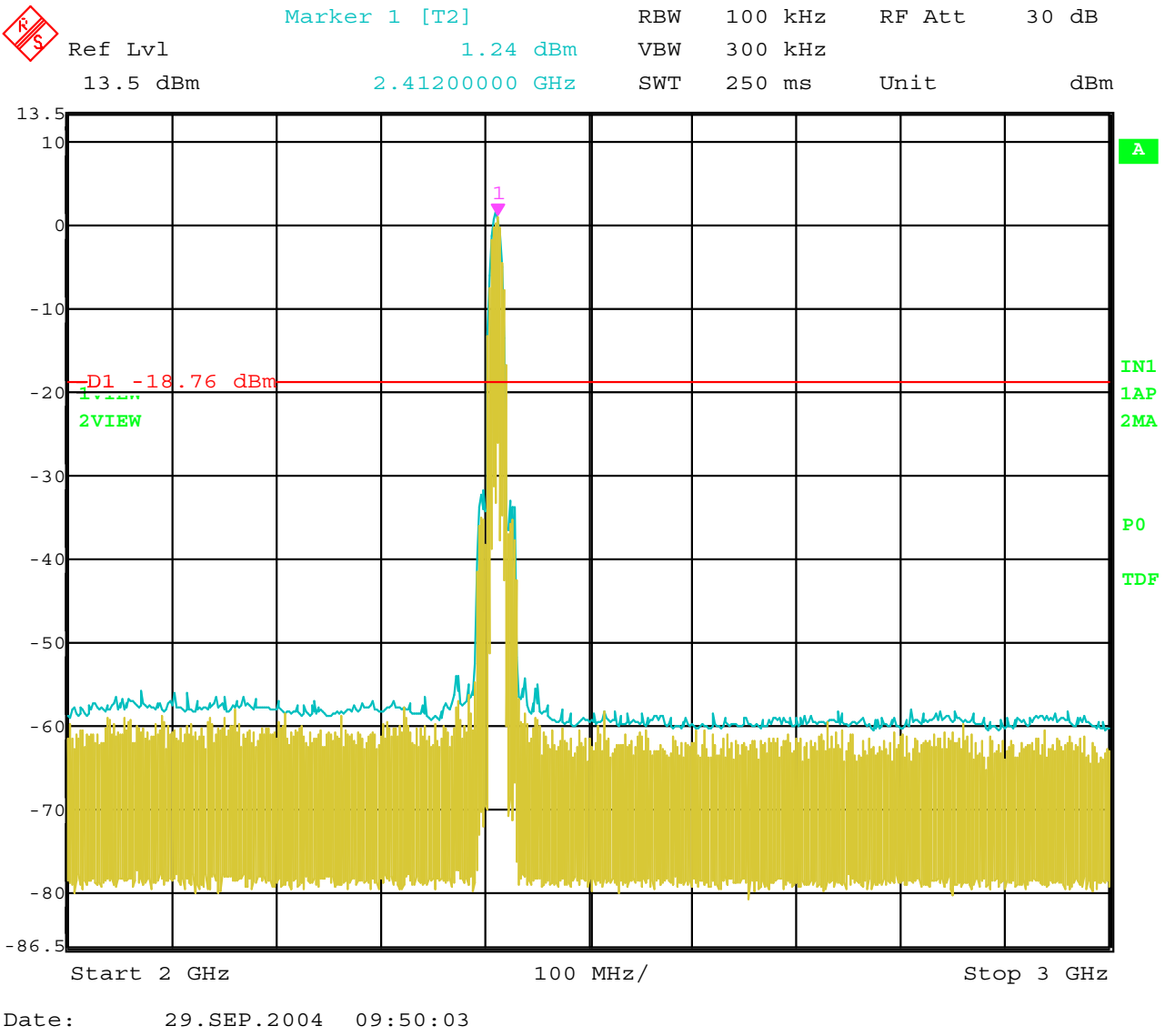
Peak Power Spectral Density Output – Channel 11

RF ANTENNA CONDUCTED

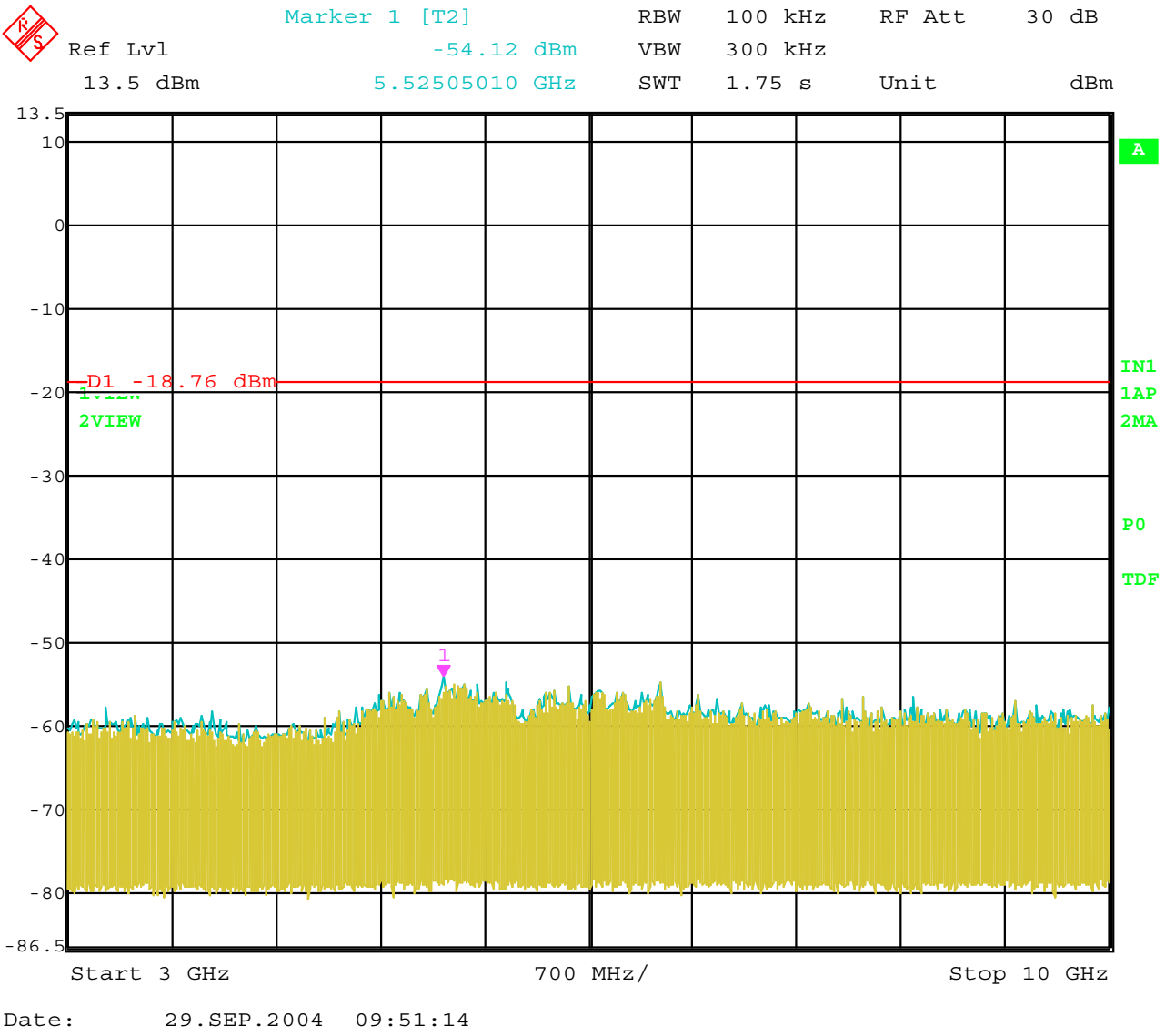
DATA SHEETS



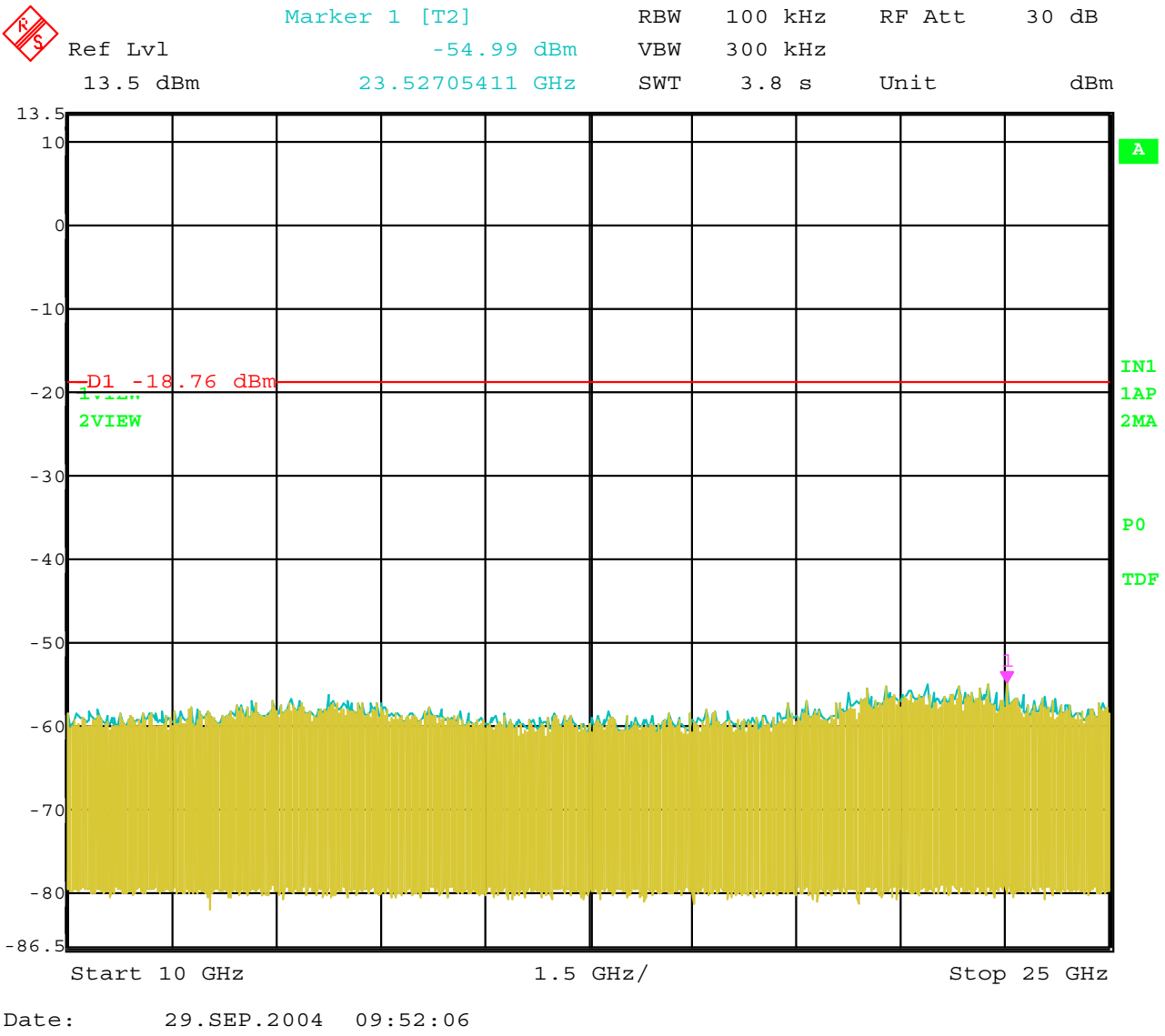
RF Antenna Conducted Test – Channel 1 – 2 MHz to 2 GHz



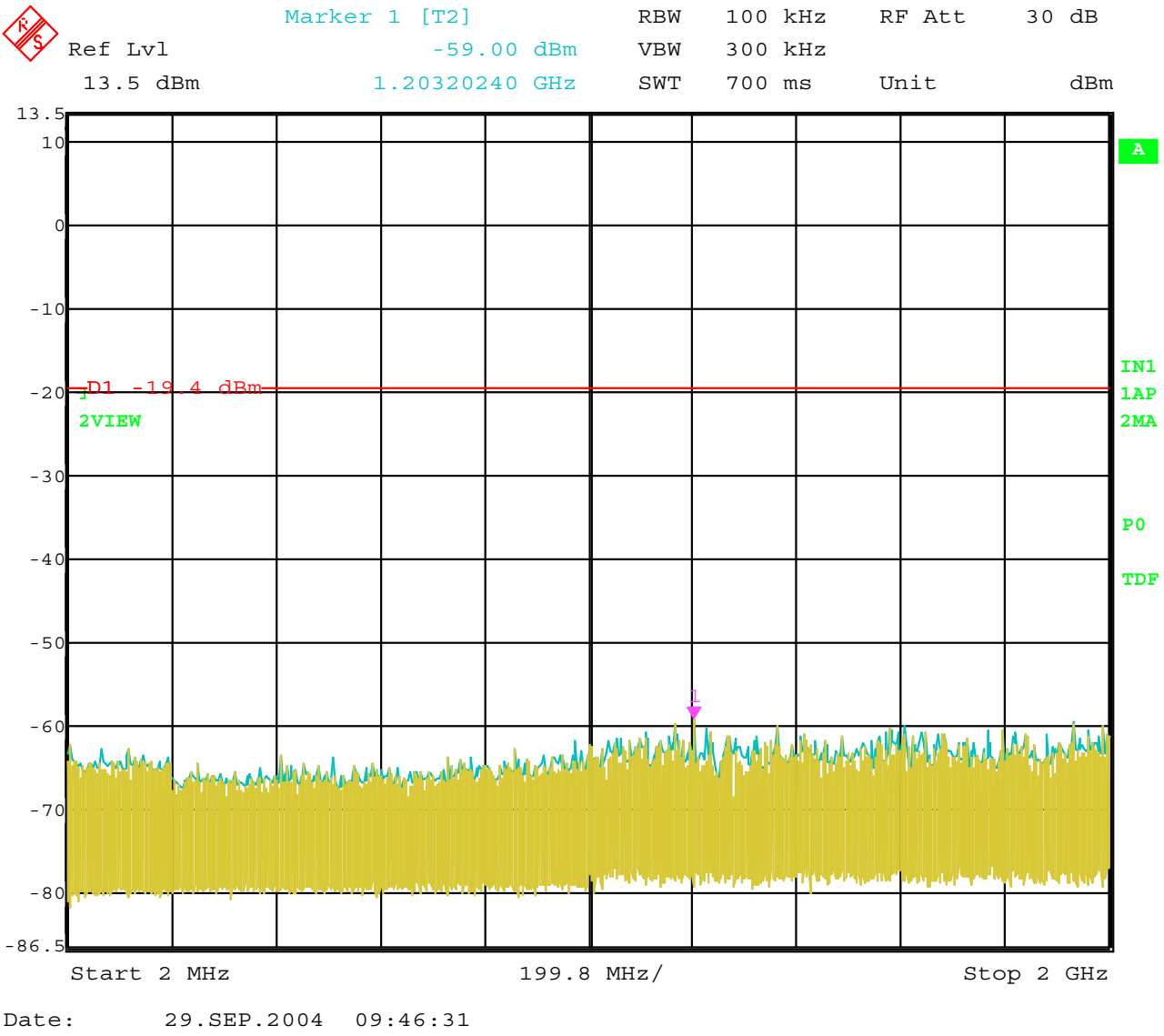
RF Antenna Conducted Test – Channel 1 – 2 GHz to 3 GHz



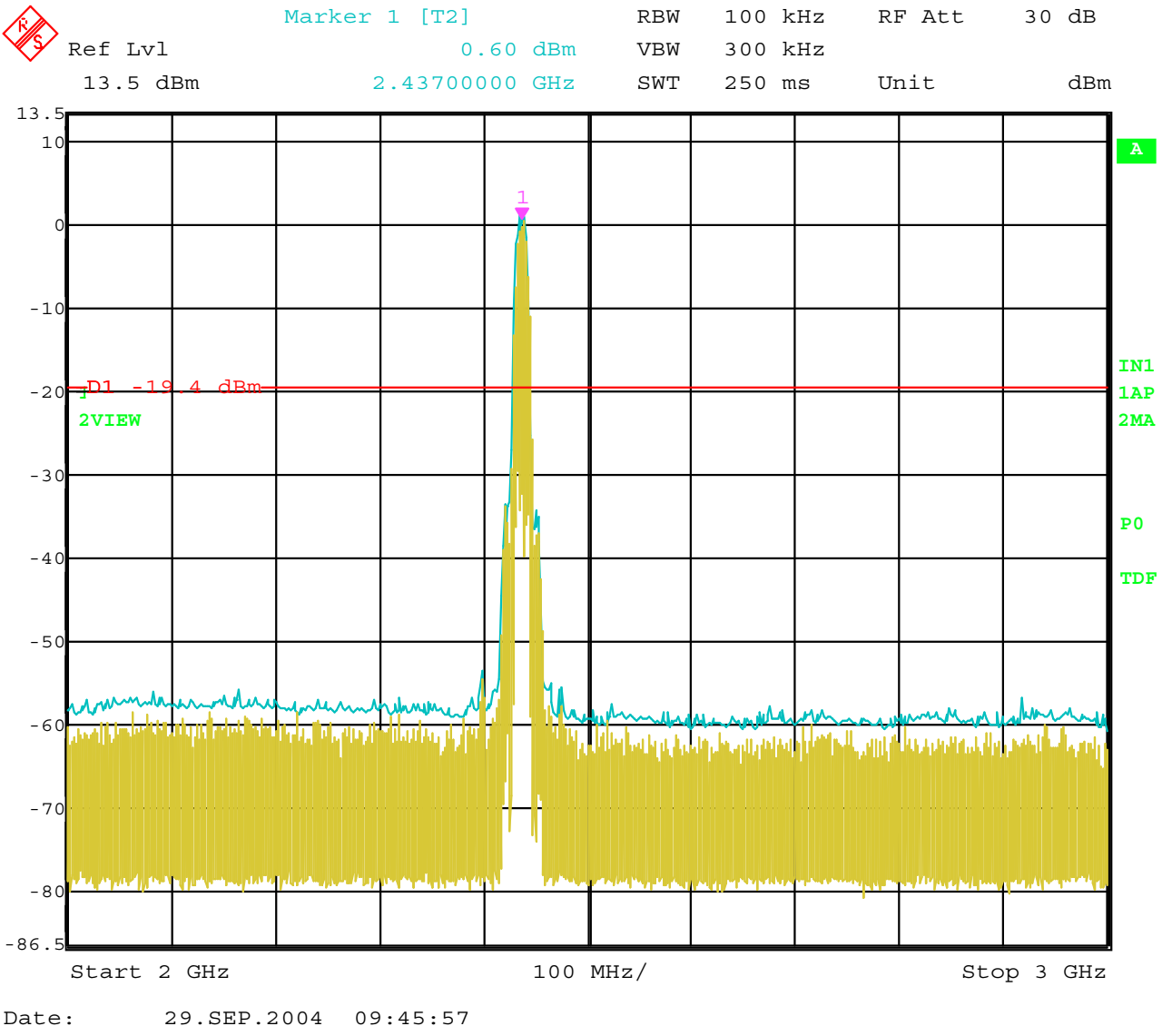
RF Antenna Conducted Test – Channel 1 – 3 GHz to 10 GHz



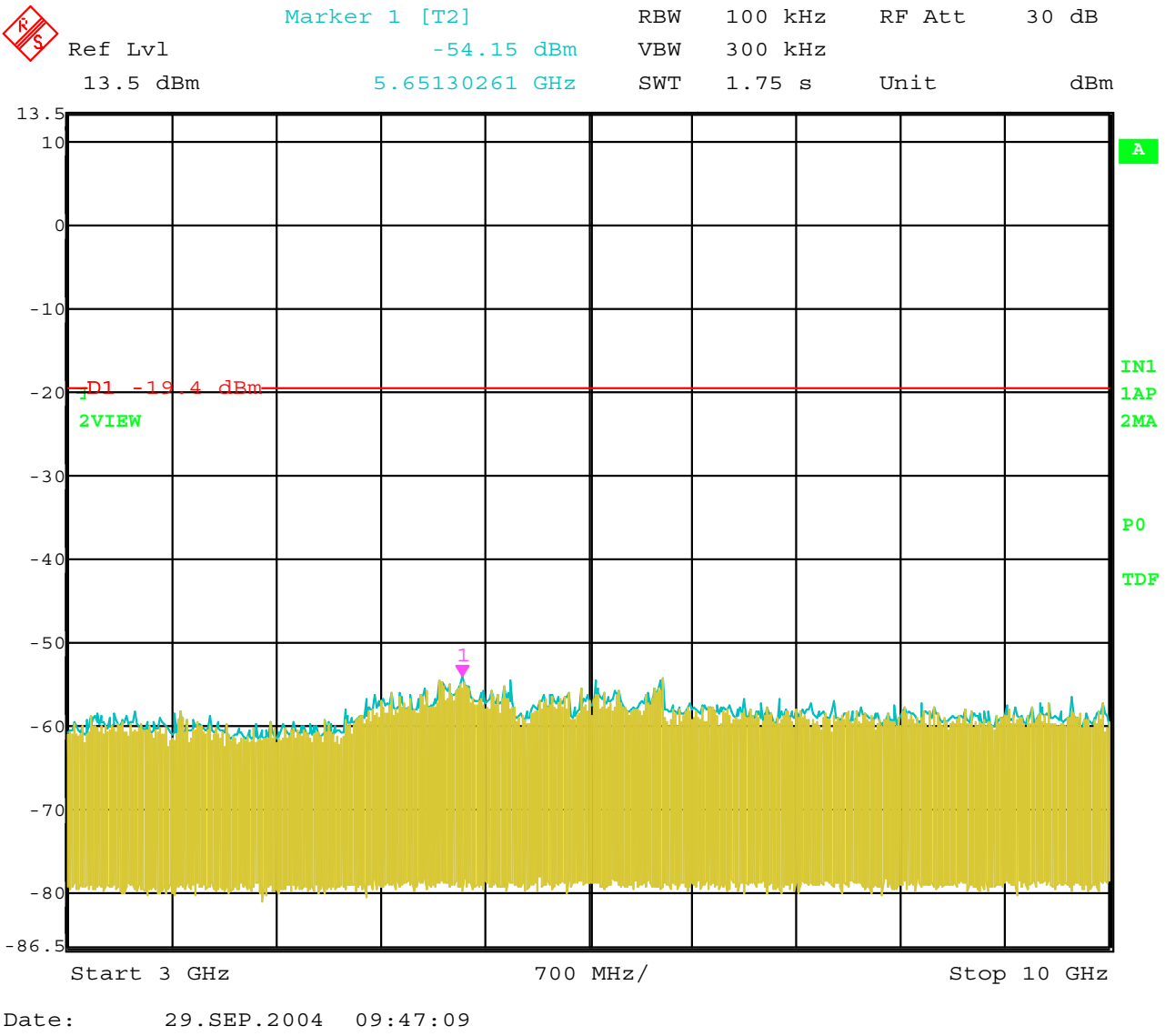
RF Antenna Conducted Test – Channel 1 – 10 GHz to 25 GHz



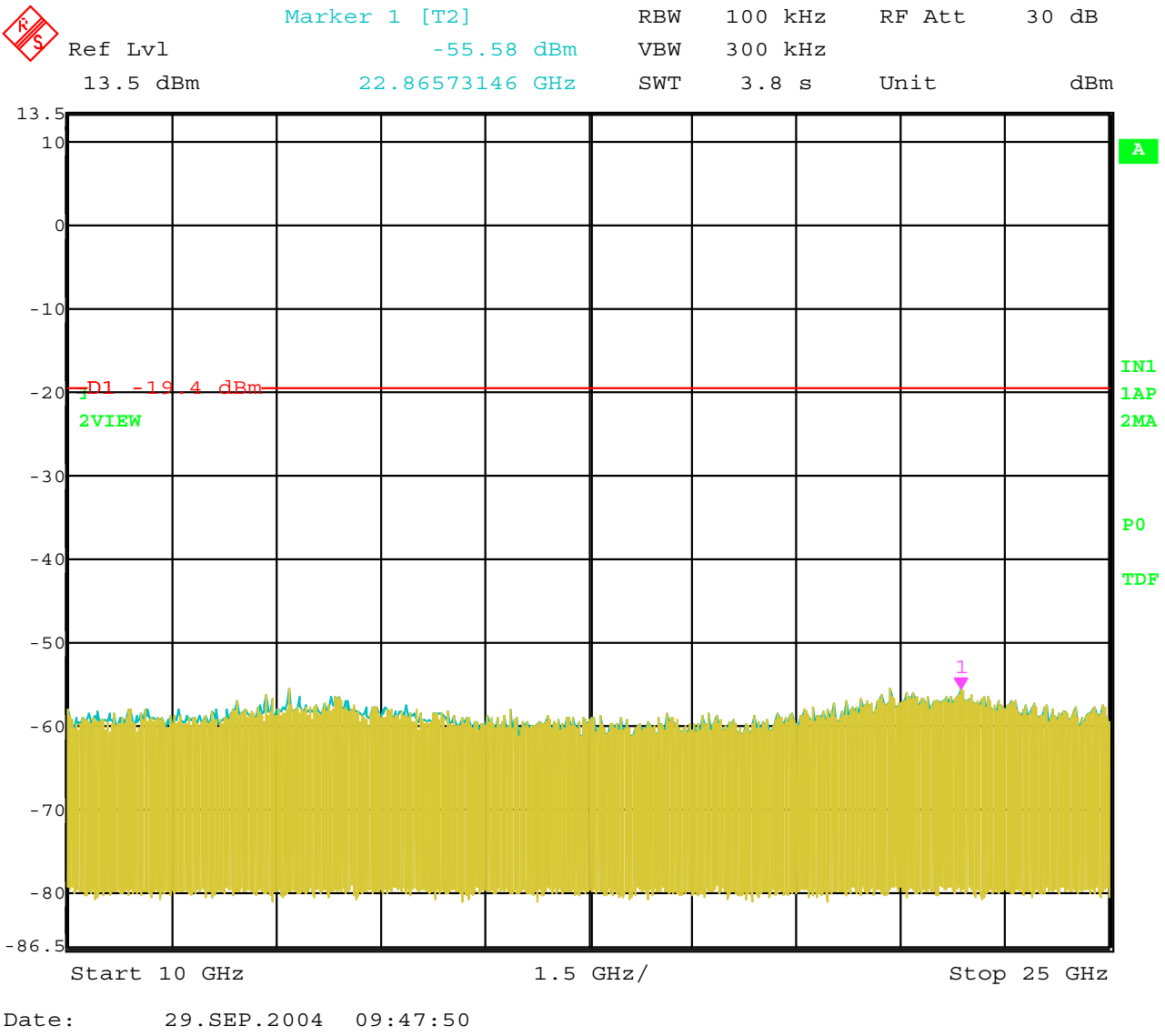
RF Antenna Conducted – Channel 6 – 2 MHz to 2 GHz



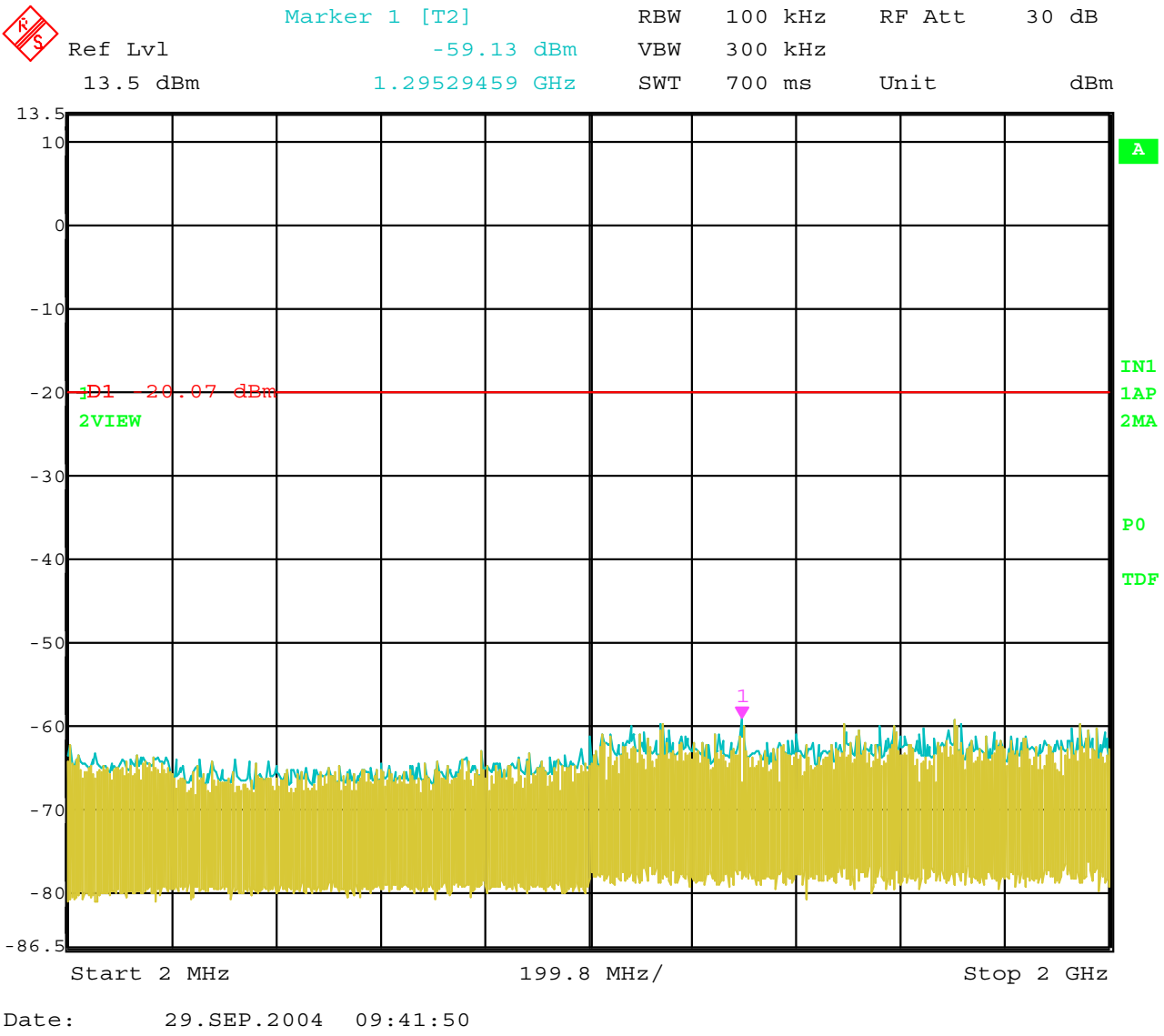
RF Antenna Conducted Test – Channel 6 – 2 GHz to 3 GHz



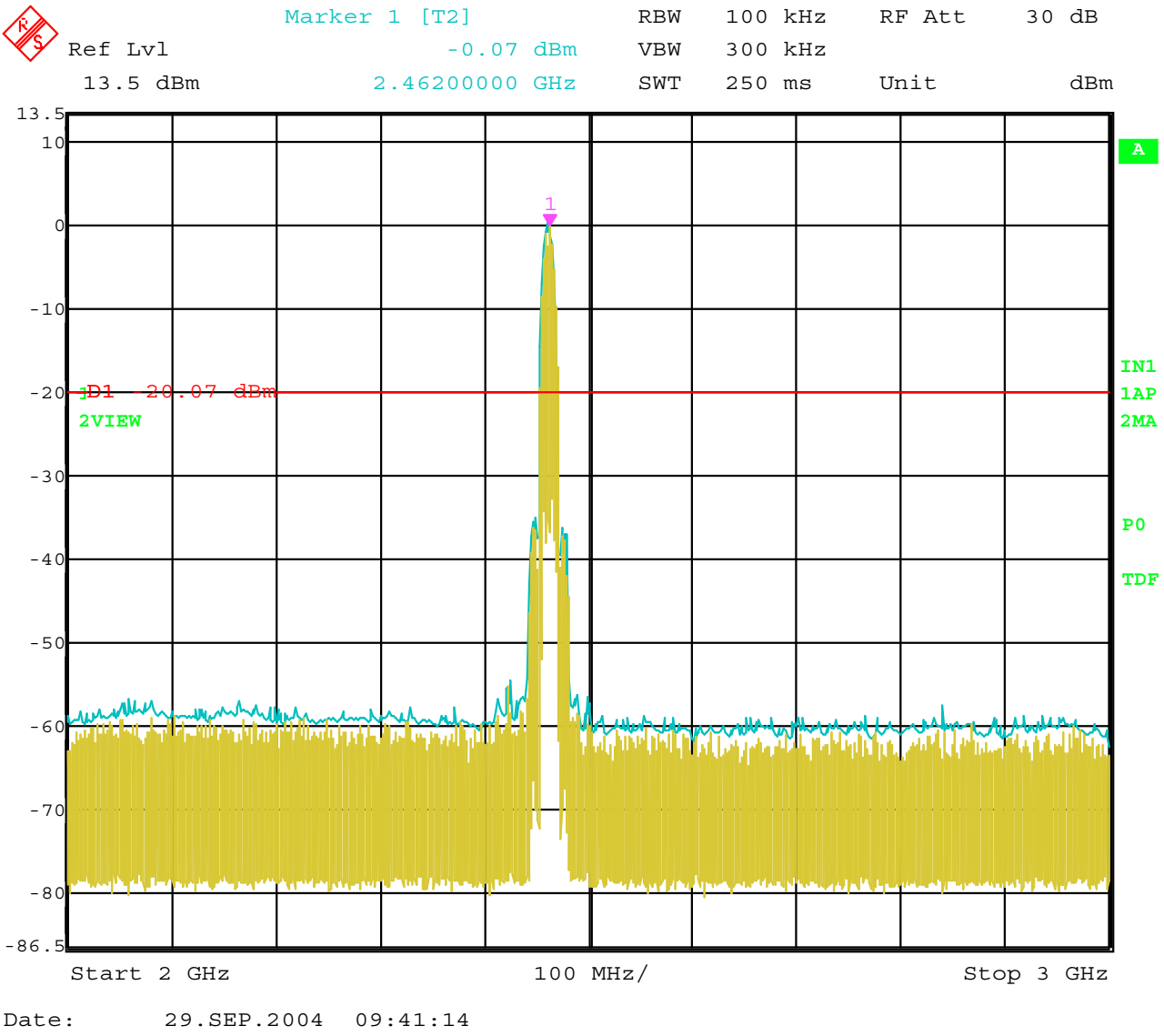
RF Antenna Conducted Test – Channel 6 – 3 GHz to 10 GHz



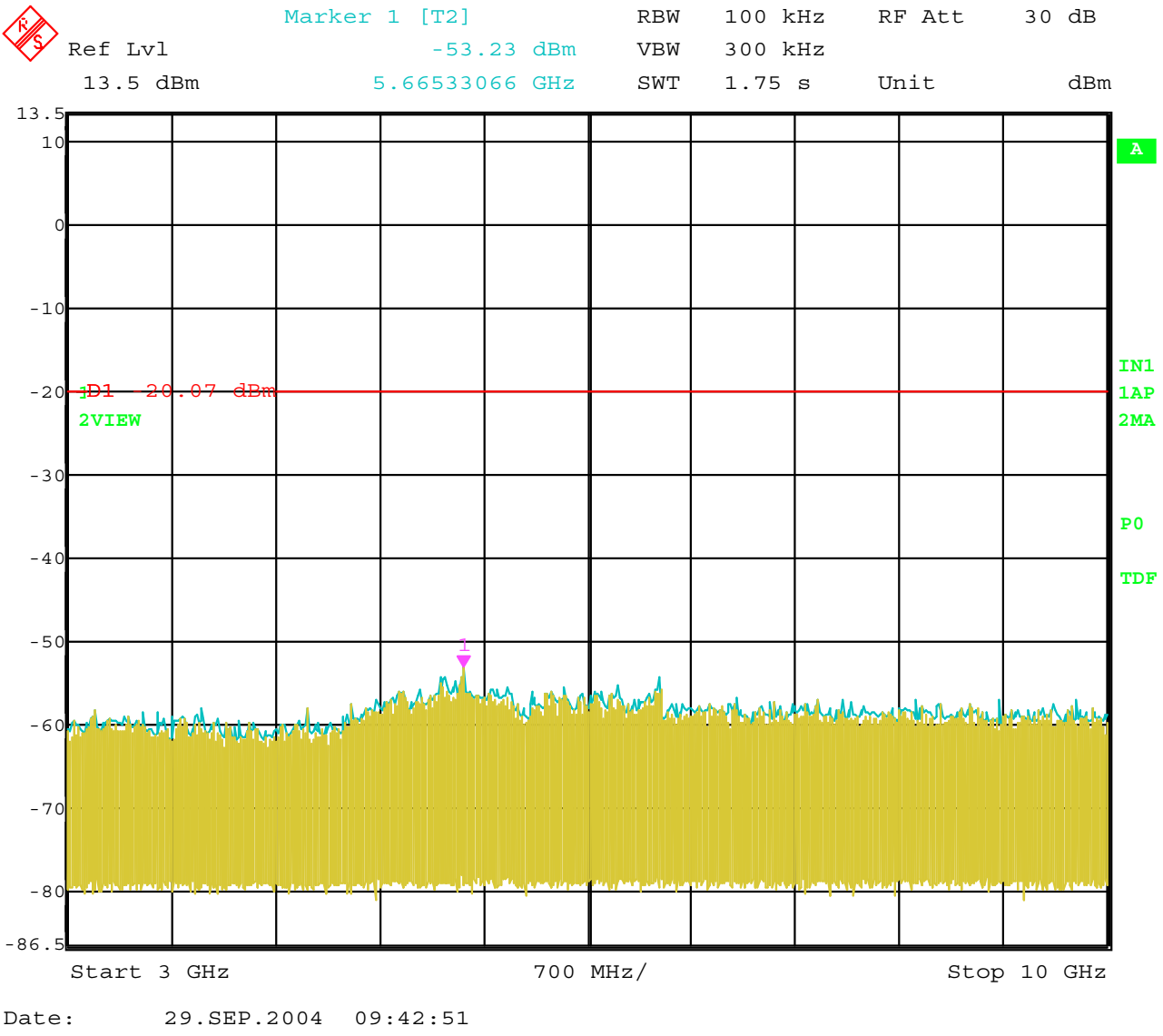
RF Antenna Conducted Test – Channel 6 – 10 GHz to 25 GHz



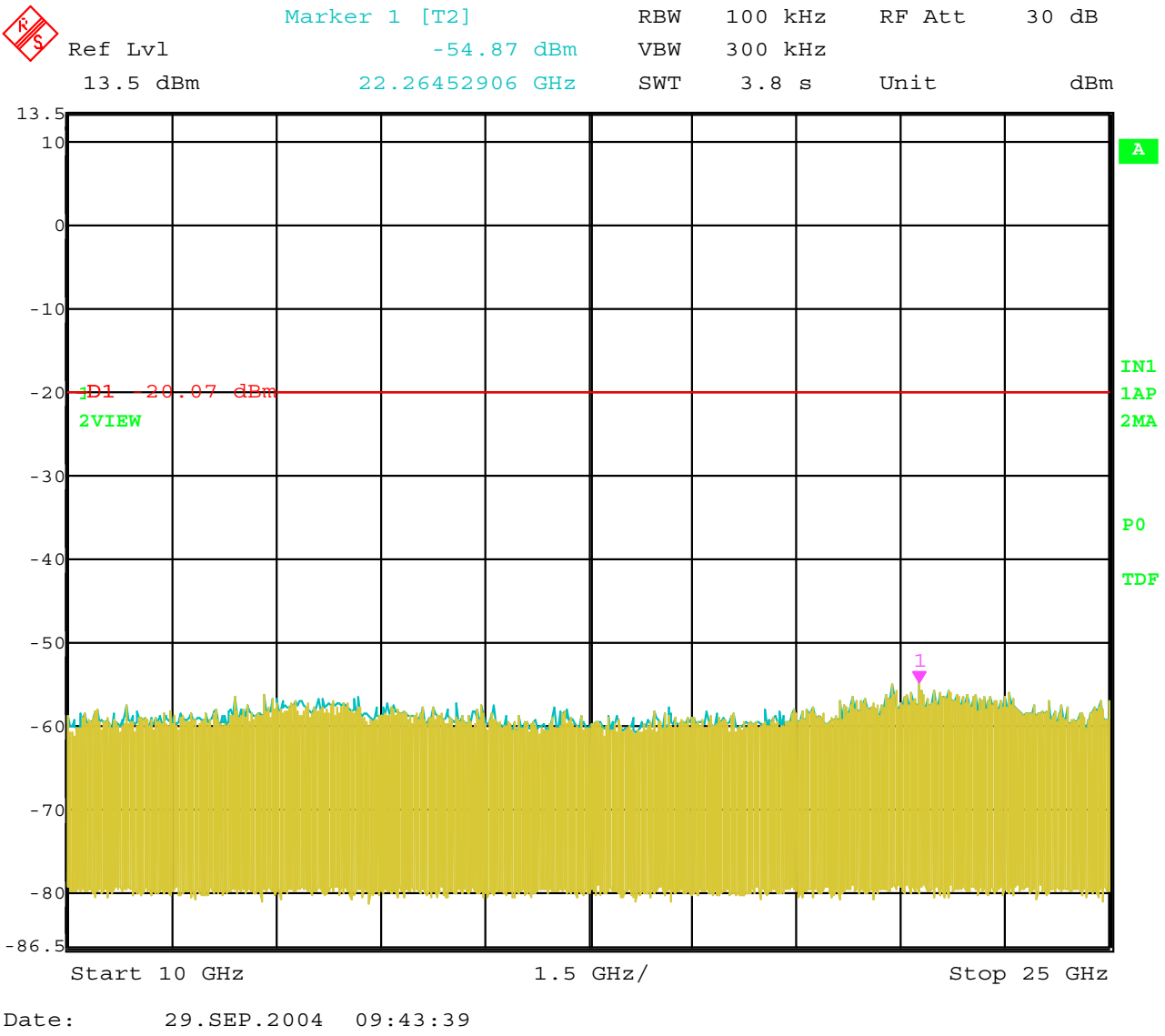
RF Antenna Conducted Test – Channel 11 – 2 MHz to 2 GHz



RF Antenna Conducted Test – Channel 11 – 2 GHz to 3 GHz



RF Antenna Conducted Test – Channel 11 – 3 GHz to 10 GHz



RF Antenna Conducted Test – Channel 11 – 10 GHz to 25 GHz

BAND EDGES

DATA SHEETS

FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode
Channel 6 - 802.11 b Mode
Channel 11 - 802.11 b Mode
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.86	V	--	--	Peak	1.15	225	Fundamental of Channel 1
2412	104.97	V	--	--	Avg	1.15	225	@ 3 meters
2390	51.45	V	74	-22.55	Peak	1.15	225	**No** Marker Delta Method
2390	41.68	V	54	-12.32	Avg	1.15	225	Method Used
2374	53.51	V	74	-20.49	Peak	1.15	225	**No** Marker Delta Method
2374	48.15	V	54	-5.85	Avg	1.15	225	Method Used
2437	106.37	V	--	--	Peak	1.16	225	Fundamental of Channel 6
2437	105.07	V	--	--	Avg	1.16	225	@ 3 meters
2462	104.33	V	--	--	Peak	1.16	270	Fundamental of Channel 11
2462	102.34	V	--	--	Avg	1.16	270	@ 3 meters
2483.5	49.12	V	74	-24.88	Peak	1.16	270	**No** Marker Delta Method
2483.5	41.19	V	54	-12.81	Avg	1.16	270	Method Used
2489.4	51.49	V	74	-22.51	Peak	1.16	270	**No** Marker Delta Method
2489.4	45.32	V	54	-8.68	Avg	1.16	270	Method Used

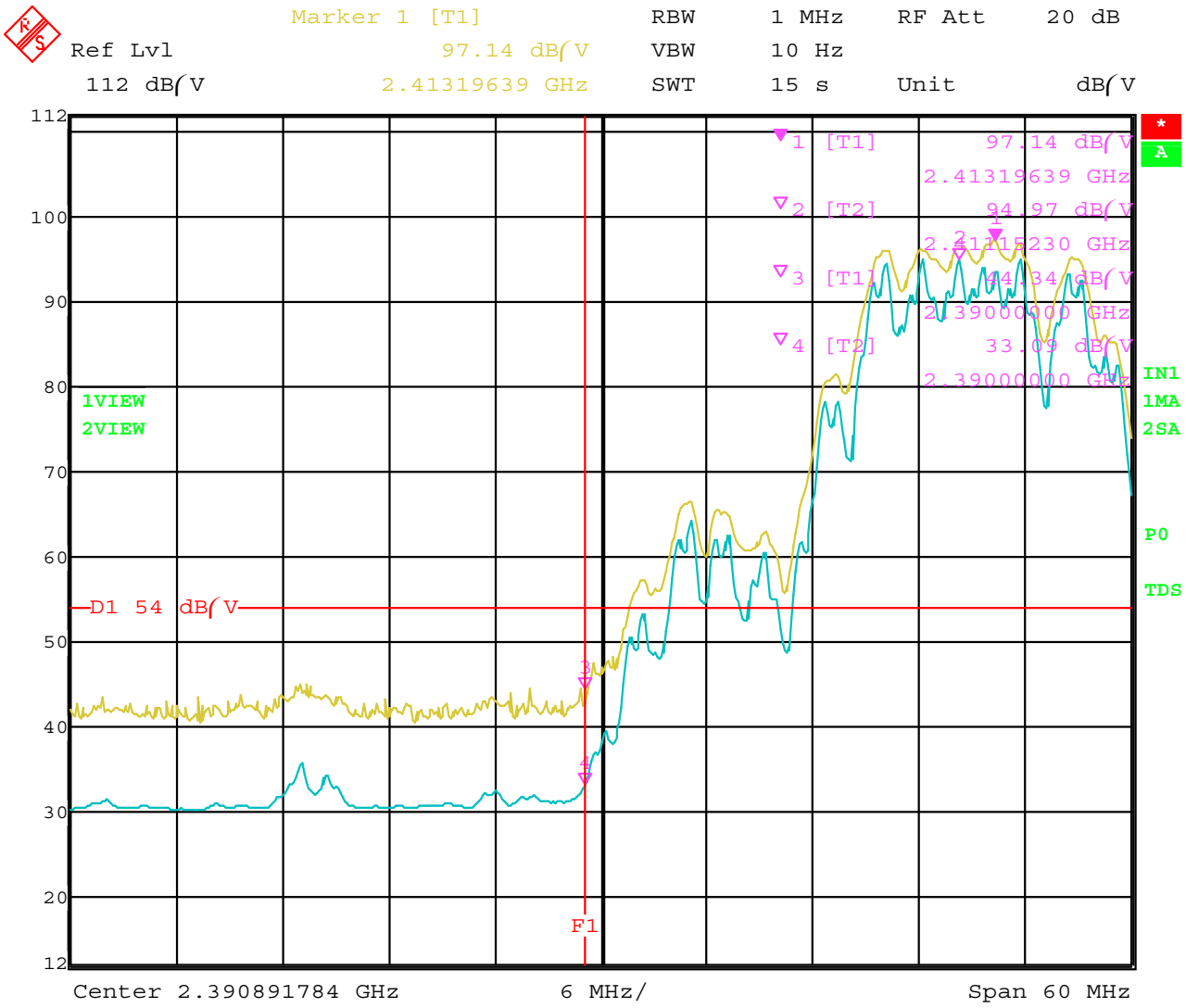
FCC 15.247

Troy Group, Inc. Date: 9/28/04
Wireless Serial Server Lab: B
Model: TROY500 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode
Channel 6 - 802.11 b Mode
Channel 11 - 802.11 b Mode
Transmit Mode

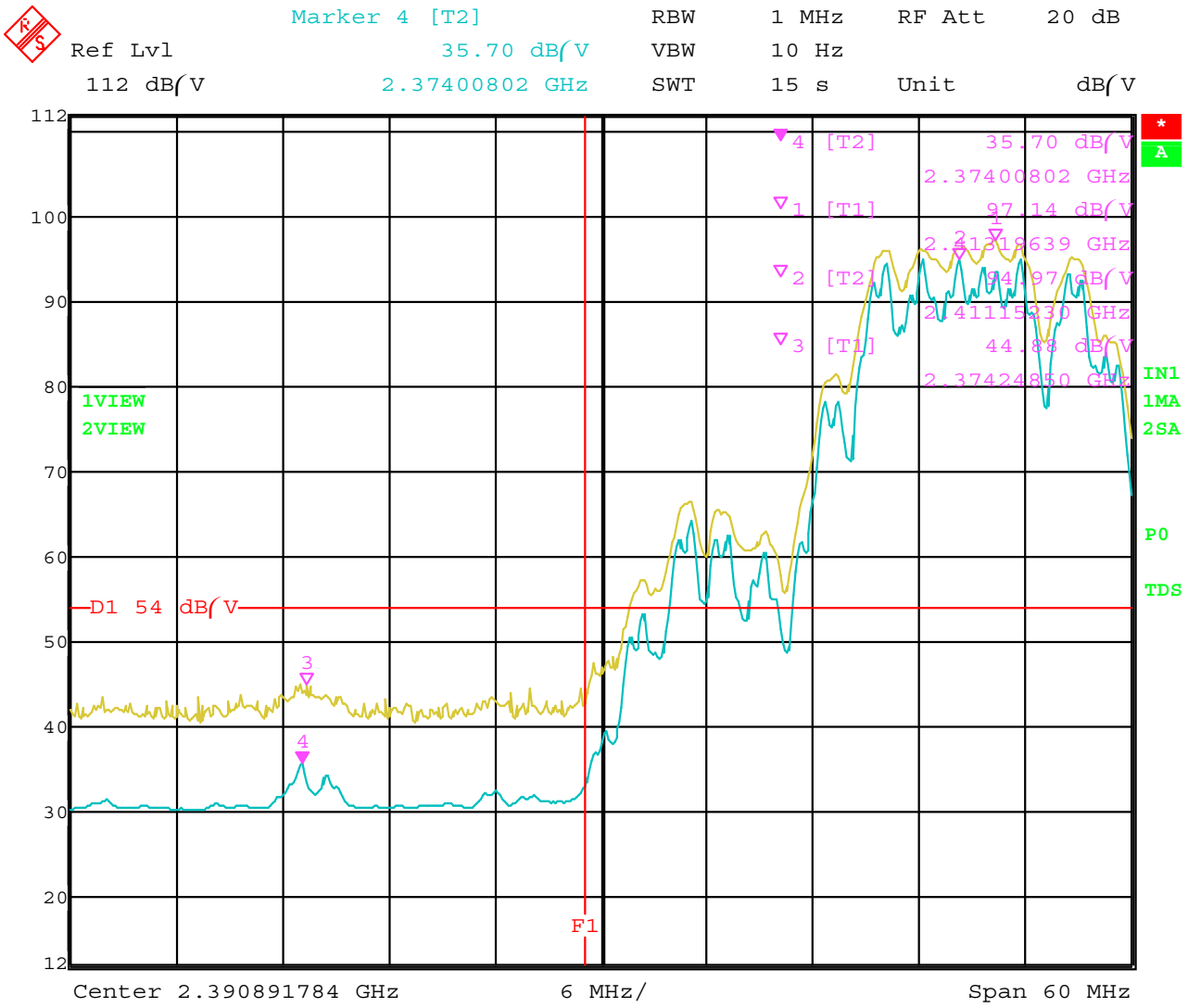
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	97.14	H	--	--	Peak	2.85	225	Fundamental of Channel 1
2412	94.97	H	--	--	Avg	2.85	225	@ 3 meters
2390	44.34	H	74	-29.66	Peak	2.85	225	**No** Marker Delta Method
2390	33.09	H	54	-20.91	Avg	2.85	225	Method Used
2374	44.88	H	74	-29.12	Peak	2.85	225	**No** Marker Delta Method
2374	35.7	H	54	-18.3	Avg	2.85	225	Method Used
2437	96.55	H	--	--	Peak	2.83	225	Fundamental of Channel 6
2437	95.04	H	--	--	Avg	2.83	225	@ 3 meters
2462	94.55	H	--	--	Peak	3.64	270	Fundamental of Channel 11
2462	92.63	H	--	--	Avg	3.64	270	@ 3 meters
2483.5	42.71	H	74	-31.29	Peak	3.64	270	**No** Marker Delta Method
2483.5	32.66	H	54	-21.34	Peak	3.64	270	Method Used
2489.4	43.71	H	74	-30.29	Peak	3.64	270	**No** Marker Delta Method
2489.4	34.45	H	54	-19.55	Peak	3.64	270	Method Used

Ch.1 - Band Edge - Horizontal Polarization – Plot 1 500-103X B-Mode Band Edge Plots



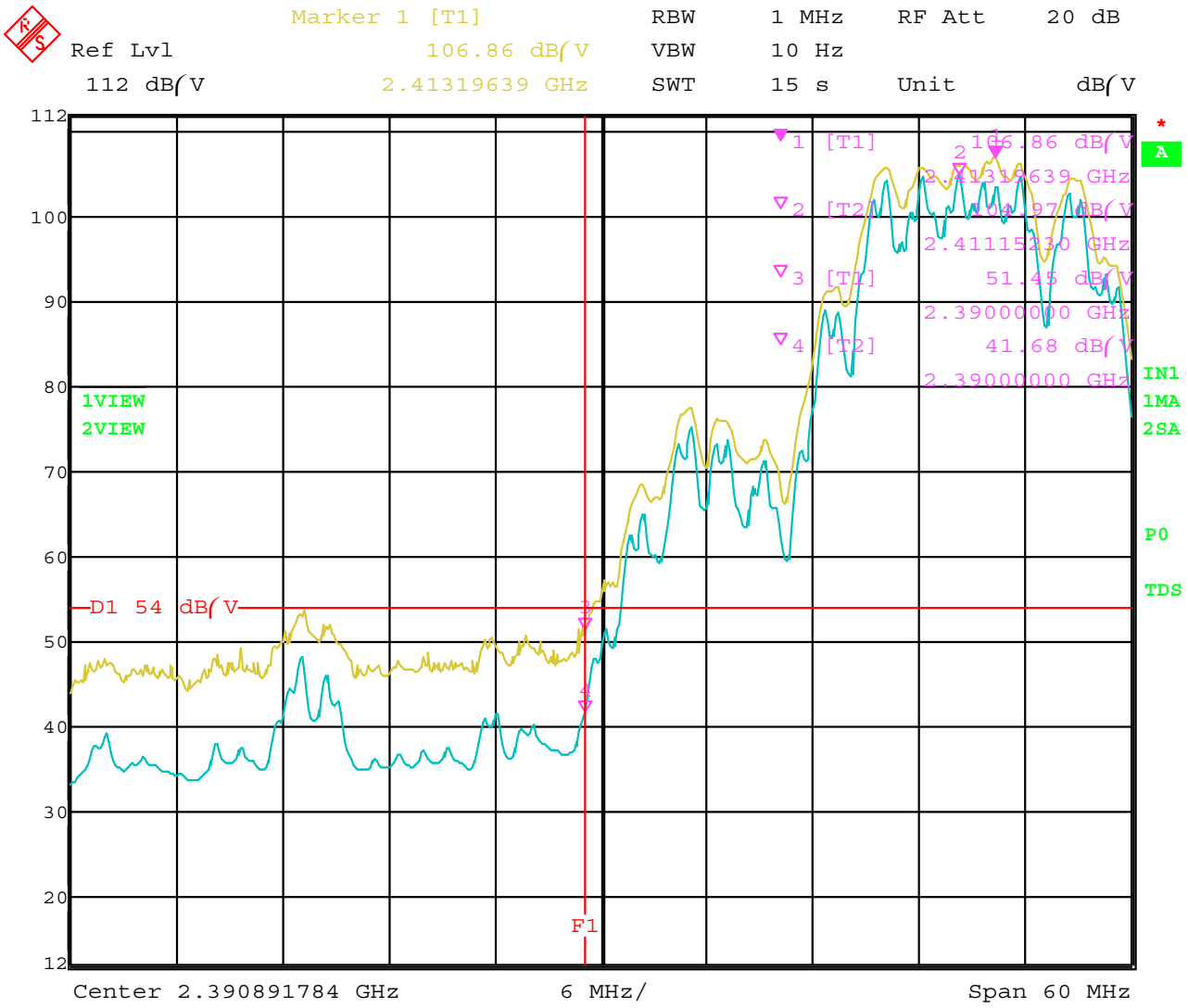
Date: 28.SEP.2004 19:54:31

Ch.1 - Band Edge - Horizontal Polarization – Plot 2

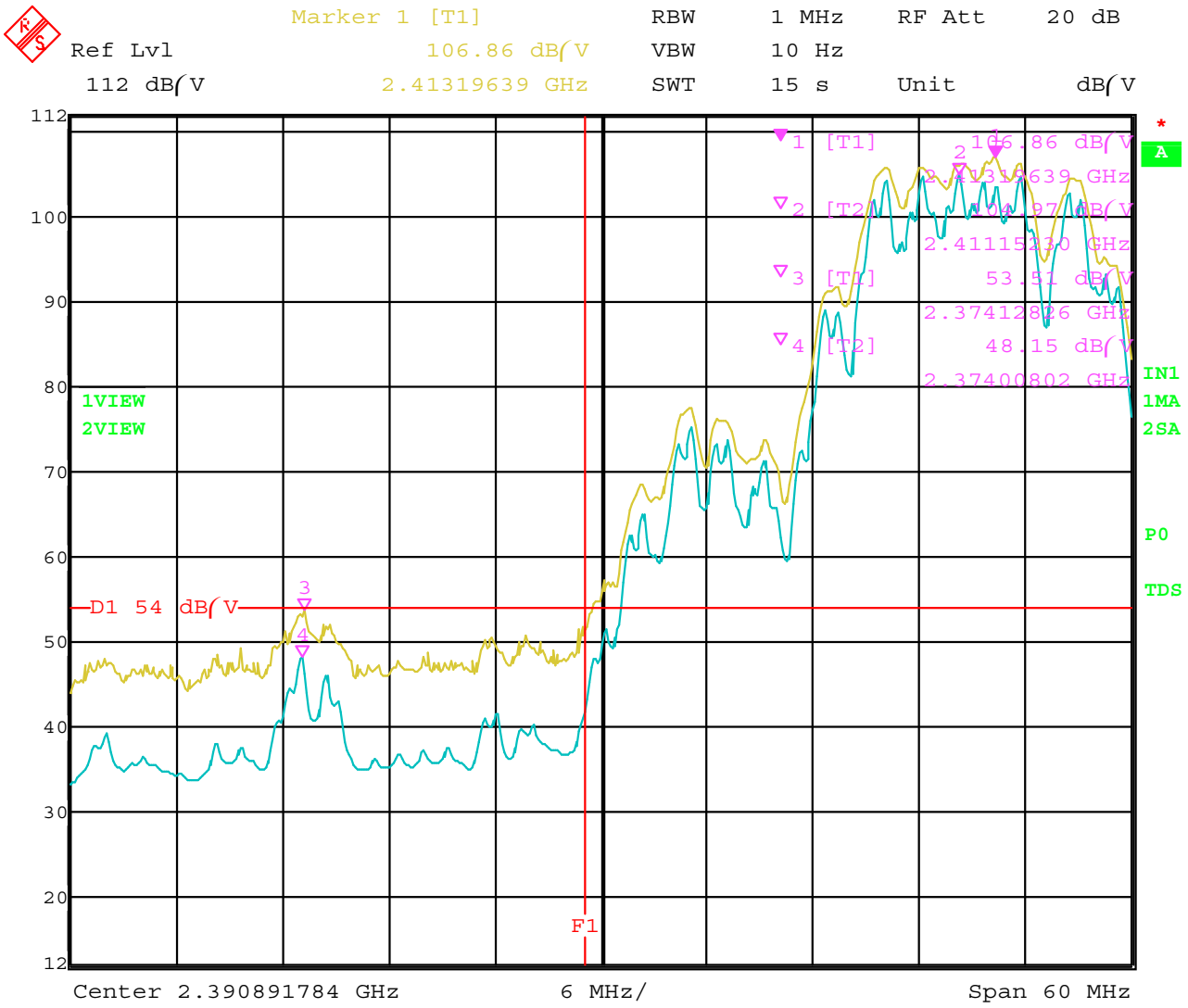


Date: 28.SEP.2004 19:55:28

Ch.1 - Band Edge - Vertical Polarization – Plot 1

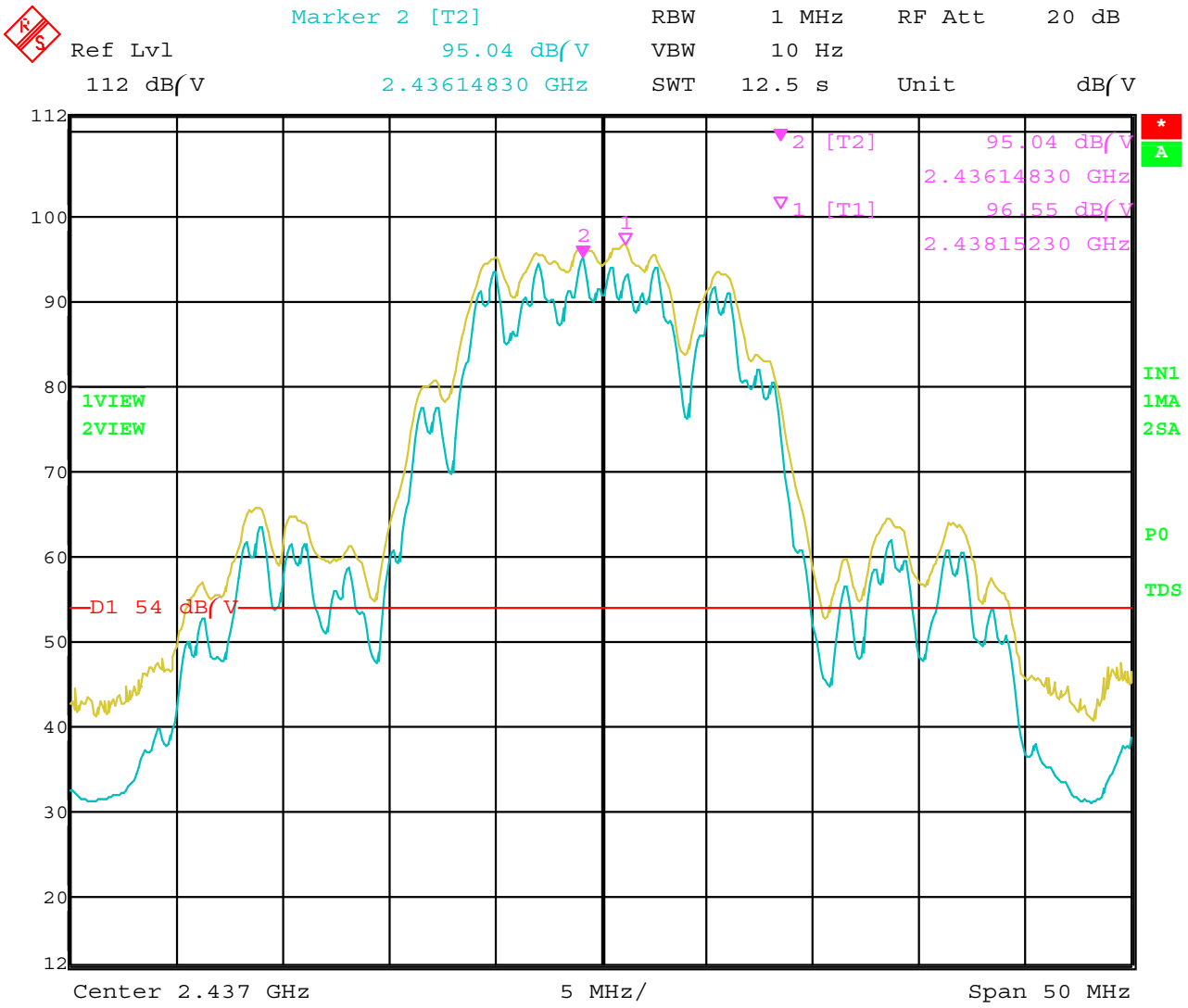


Ch.1 - Band Edge - Vertical Polarization – Plot 2



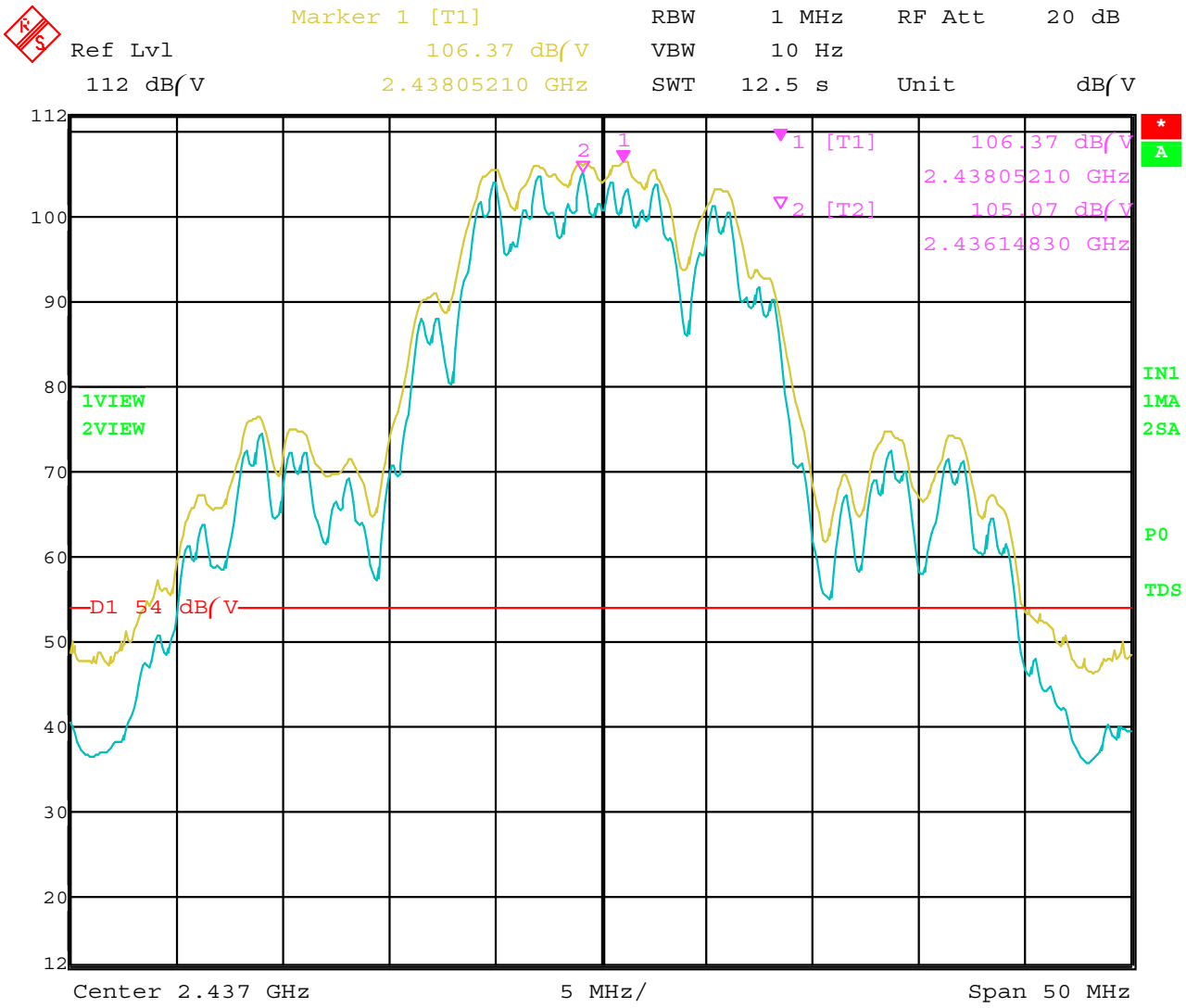
Date: 28.SEP.2004 20:00:23

Ch.6 - Band Edge - Horizontal Polarization



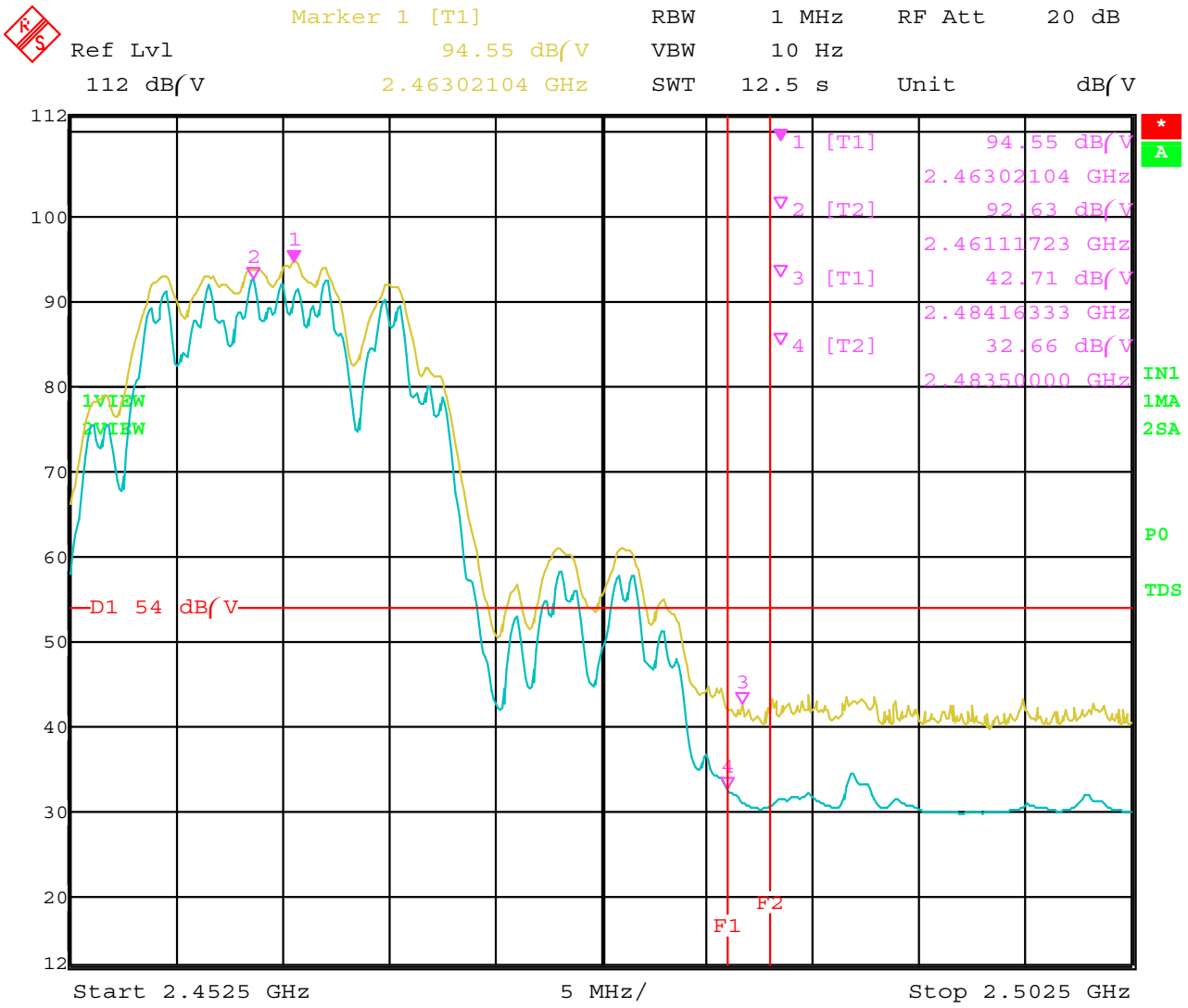
Date: 28.SEP.2004 19:47:32

Ch.6 - Band Edge - Vertical Polarization



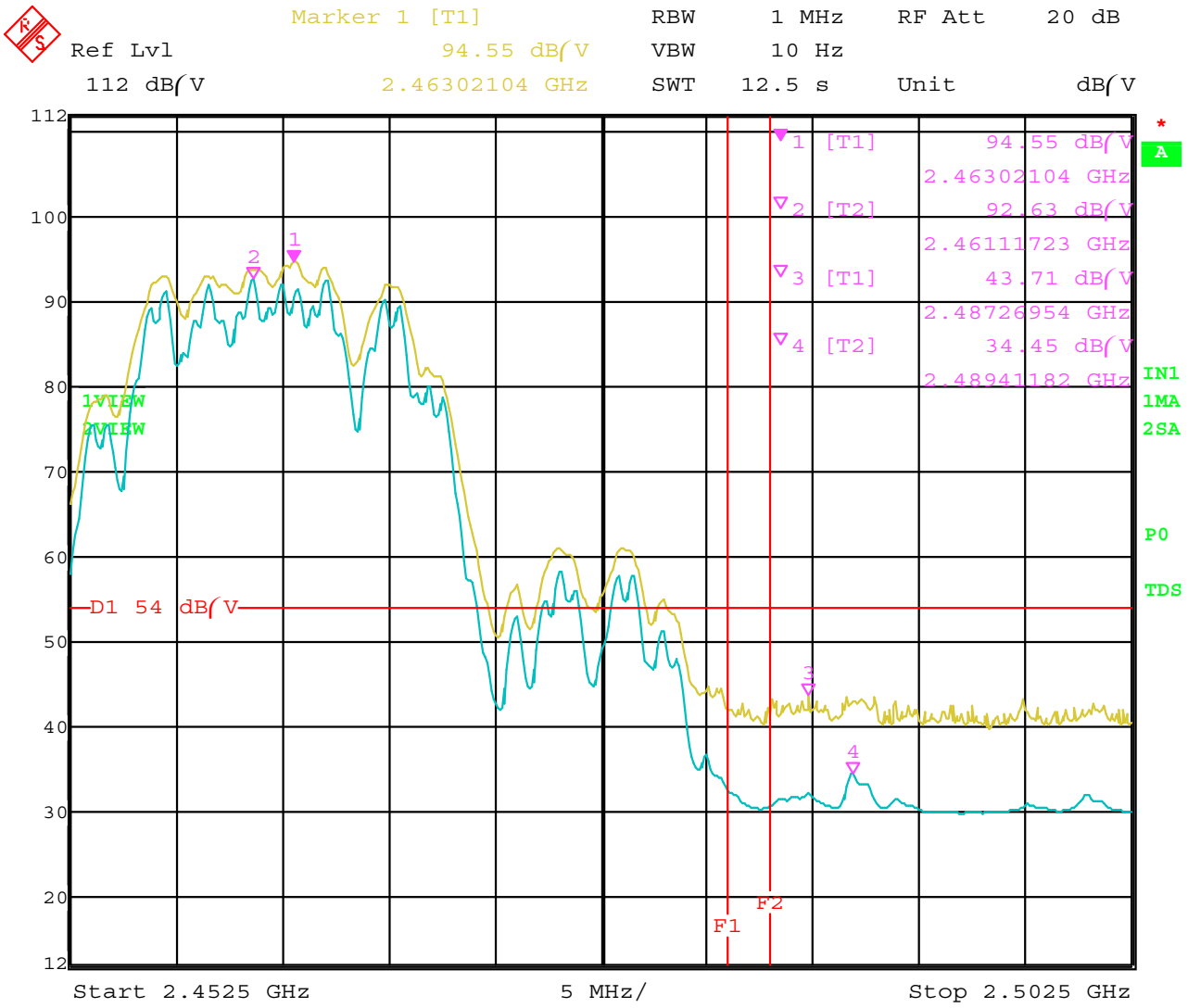
Date: 28.SEP.2004 19:45:07

Ch.11 - Band Edge - Horizontal Polarization – Plot 1



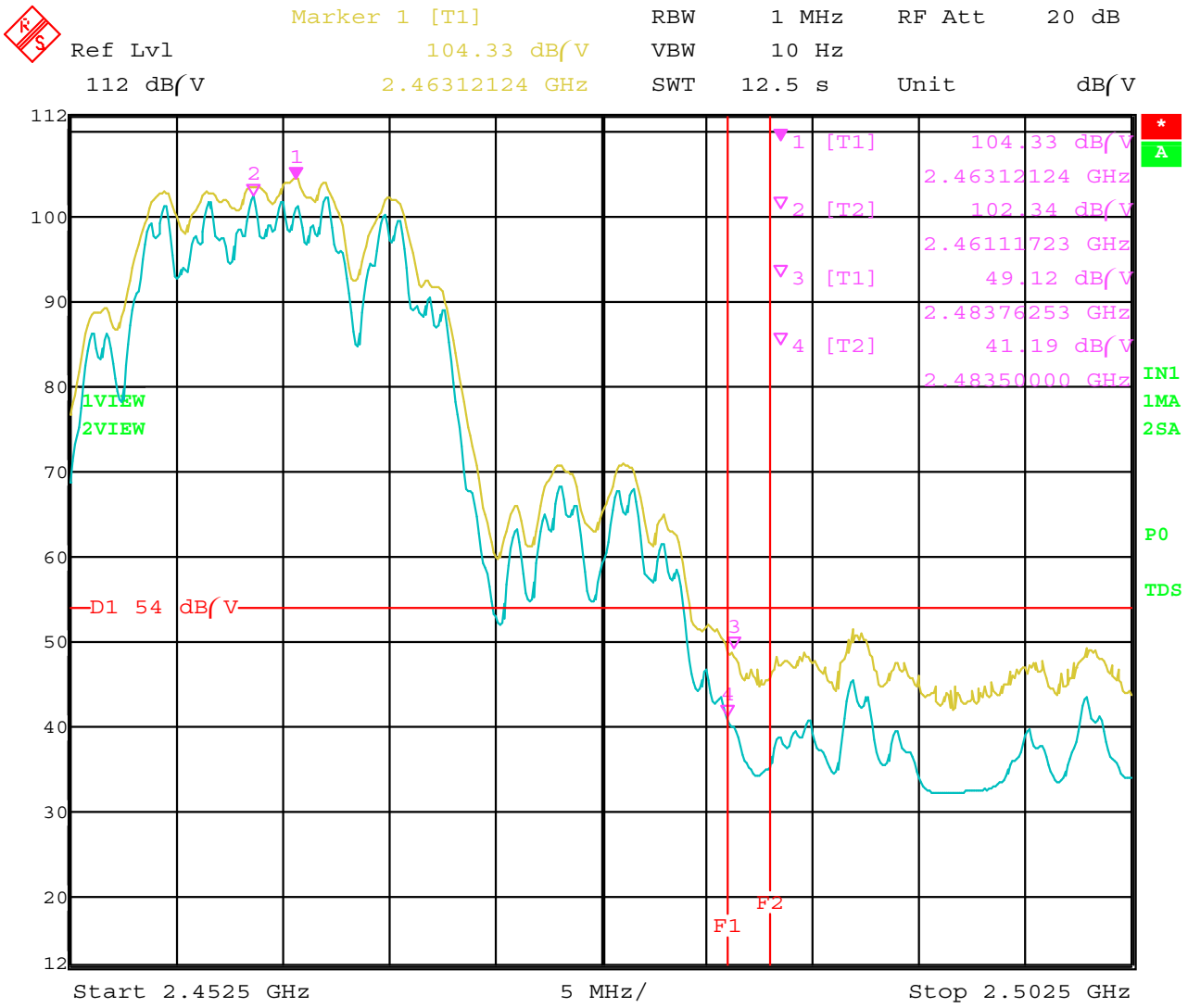
Date: 28.SEP.2004 19:25:32

Ch.11 - Band Edge - Horizontal Polarization – Plot 2



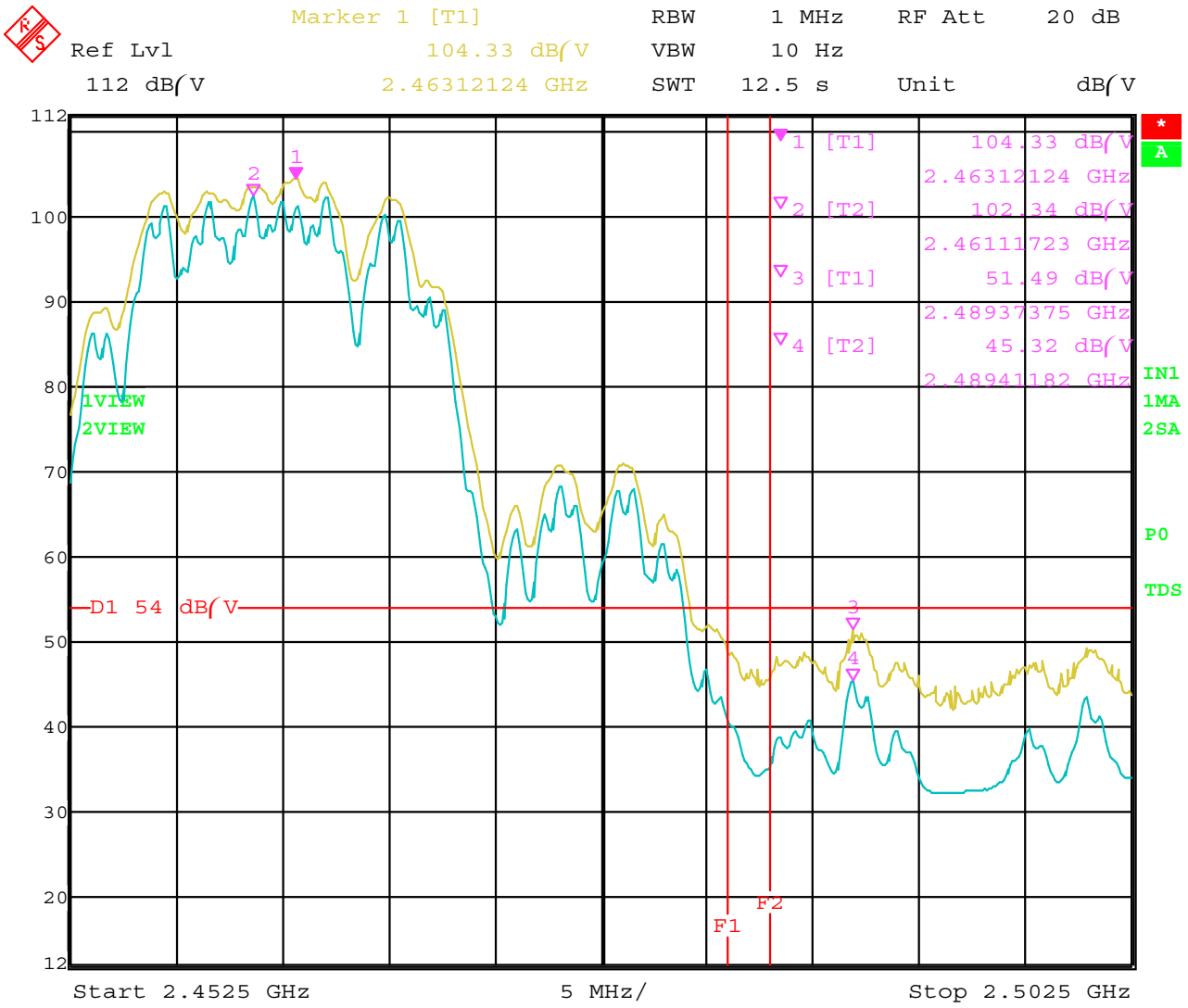
Date: 28.SEP.2004 19:26:26

Ch.11 - Band Edge - Vertical Polarization – Plot 1



Date: 28.SEP.2004 19:38:01

Ch.11 - Band Edge - Vertical Polarization – Plot 2

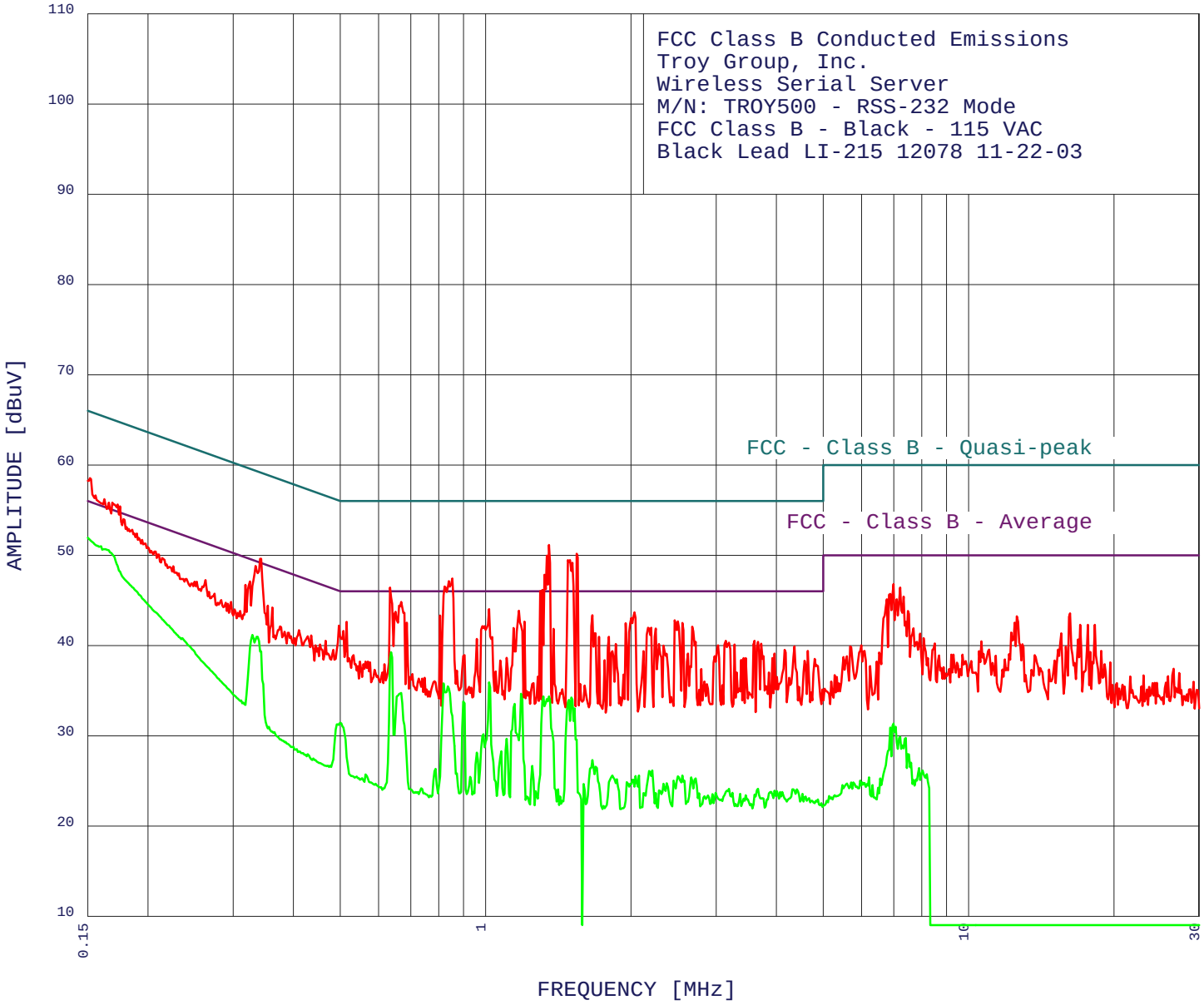


Date: 28.SEP.2004 19:38:55

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK 9/28/2004 12:04:28
Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/28/2004 12:04:28

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-232 Mode
FCC Class B - Black - 115 VAC
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	1.352	51.14	46.00	5.14**
2	1.544	50.15	46.00	4.15**
3	1.338	49.94	46.00	3.94**
4	1.496	49.45	46.00	3.45**
5	1.325	47.84	46.00	1.84**
6	0.853	47.42	46.00	1.42**
7	0.169	55.82	55.03	0.79**
8	0.343	49.61	49.13	0.47**
9	0.634	46.42	46.00	0.42**
10	1.311	46.14	46.00	0.14**
11	1.297	46.04	46.00	0.04**
12	0.669	44.82	46.00	-1.18**
13	1.016	44.03	46.00	-1.97**
14	1.172	43.84	46.00	-2.16**
15	0.651	43.72	46.00	-2.28**
16	2.034	43.67	46.00	-2.33**
17	0.325	47.11	49.57	-2.47**
18	1.663	43.35	46.00	-2.65**
19	0.805	43.32	46.00	-2.68**
20	0.318	46.71	49.75	-3.04**
21	6.991	46.81	50.00	-3.19**
22	2.462	42.78	46.00	-3.22**
23	2.501	42.68	46.00	-3.32**
24	1.204	42.64	46.00	-3.36**
25	0.516	42.61	46.00	-3.39**
26	0.686	42.52	46.00	-3.48**
27	2.554	42.48	46.00	-3.52**
28	1.950	42.46	46.00	-3.54**
29	7.217	46.41	50.00	-3.59**
30	0.497	42.21	46.05	-3.84**
31	2.679	42.09	46.00	-3.91**
32	2.201	41.97	46.00	-4.03**
33	1.142	41.93	46.00	-4.07**
34	0.263	47.24	51.33	-4.09**
35	2.250	41.87	46.00	-4.13**
36	1.382	41.84	46.00	-4.16**
37	6.882	45.71	50.00	-4.29**
38	0.354	44.41	48.87	-4.46**
39	0.362	44.21	48.69	-4.48**
40	7.333	45.41	50.00	-4.59**
41	1.690	41.35	46.00	-4.65**
42	7.100	45.11	50.00	-4.89**
43	6.773	45.11	50.00	-4.89**
44	1.800	40.96	46.00	-5.04**
45	1.717	40.95	46.00	-5.05**
46	0.958	40.73	46.00	-5.27**

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/28/2004 12:04:28

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-232 Mode
FCC Class B - Black - 115 VAC
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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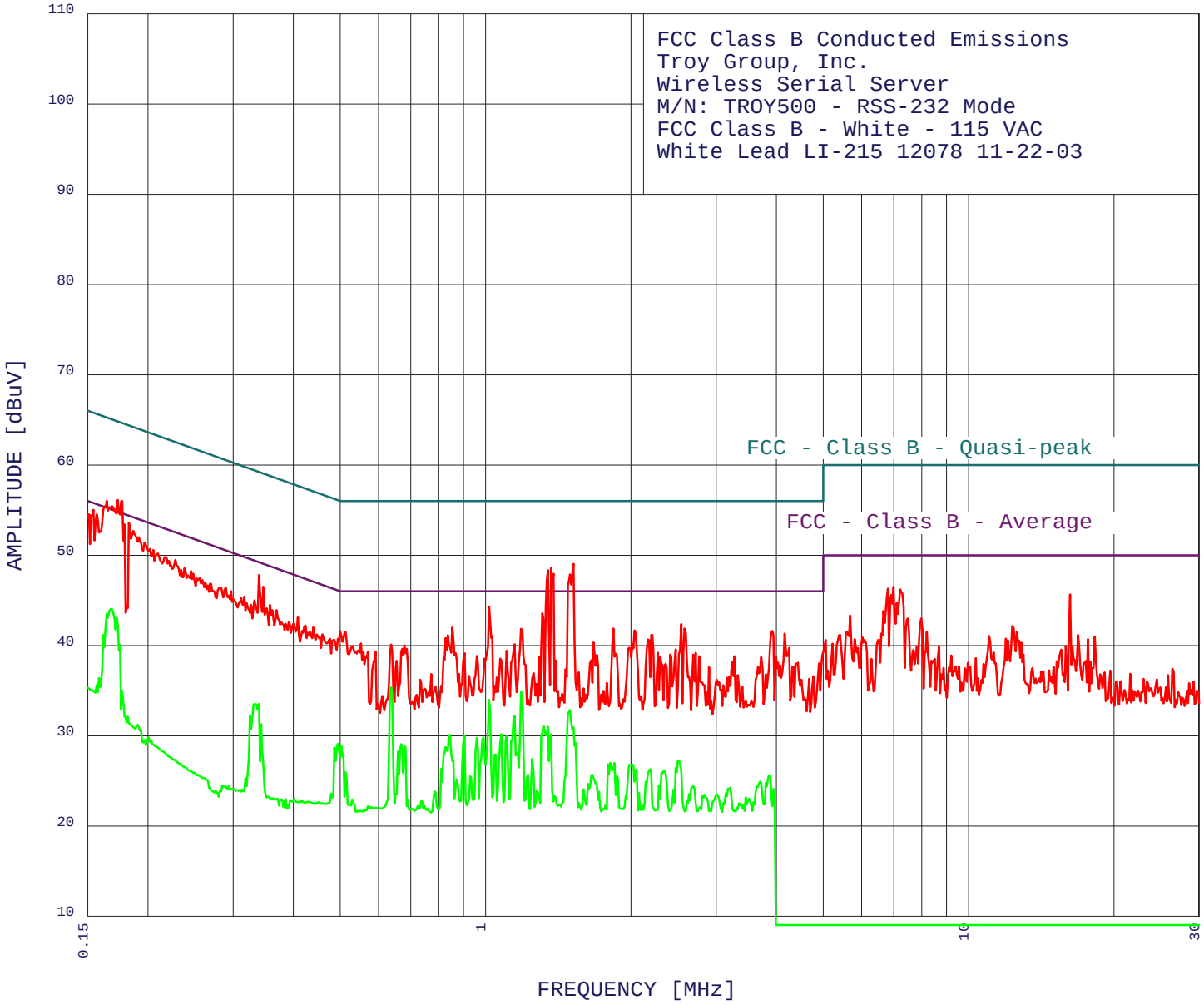
46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	39.25	46.00	-6.75
2	0.329	41.18	49.48	-8.31
3	0.338	40.96	49.26	-8.31
4	1.016	35.90	46.00	-10.10
5	0.818	35.79	46.00	-10.21
6	0.835	35.46	46.00	-10.54
7	0.669	34.73	46.00	-11.27
8	1.184	34.65	46.00	-11.35
9	0.235	40.80	52.25	-11.45
10	1.318	34.36	46.00	-11.64
11	1.352	34.34	46.00	-11.66
12	1.504	34.24	46.00	-11.76
13	1.338	34.04	46.00	-11.96
14	1.488	33.96	46.00	-12.04
15	0.899	33.78	46.00	-12.22
16	1.148	33.53	46.00	-12.47
17	1.528	33.03	46.00	-12.97
18	0.500	31.44	46.01	-14.56
19	0.990	30.16	46.00	-15.84
20	1.106	29.67	46.00	-16.33
21	1.077	28.26	46.00	-17.74
22	0.356	30.98	48.82	-17.84
23	0.958	28.14	46.00	-17.86
24	0.365	30.41	48.61	-18.20
25	6.991	31.36	50.00	-18.64
26	1.663	27.30	46.00	-18.70
27	7.063	30.99	50.00	-19.01
28	6.882	30.90	50.00	-19.10
29	0.428	27.94	47.28	-19.34
30	1.249	26.65	46.00	-19.35
31	1.690	26.56	46.00	-19.44
32	0.440	27.49	47.06	-19.57
33	0.788	26.32	46.00	-19.68
34	0.476	26.67	46.40	-19.73
35	2.214	26.15	46.00	-19.85
36	2.179	26.10	46.00	-19.90
37	7.217	29.86	50.00	-20.14
38	7.411	29.75	50.00	-20.25
39	0.564	25.70	46.00	-20.30
40	2.554	25.60	46.00	-20.40
41	2.077	25.59	46.00	-20.41
42	1.830	25.58	46.00	-20.42
43	2.044	25.53	46.00	-20.47
44	2.501	25.49	46.00	-20.51
45	0.541	25.47	46.00	-20.53
46	0.929	25.44	46.00	-20.56

EMISSION LEVEL [dBuV] PEAK 9/28/2004 13:33:06
Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/28/2004 13:33:06

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-232 Mode
FCC Class B - White - 115 VAC
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	1.520	49.05	46.00	3.05**
2	1.367	48.64	46.00	2.64**
3	1.345	48.34	46.00	2.34**
4	1.382	47.94	46.00	1.94**
5	1.496	47.85	46.00	1.85**
6	0.177	56.01	54.63	1.38**
7	0.173	56.11	54.81	1.30**
8	0.164	56.02	55.25	0.77**
9	0.154	55.03	55.78	-0.75**
10	0.183	53.61	54.37	-0.76**
11	0.157	54.53	55.64	-1.12**
12	0.179	53.41	54.54	-1.13**
13	0.339	47.81	49.22	-1.41**
14	1.016	44.33	46.00	-1.67**
15	1.311	43.54	46.00	-2.46**
16	0.347	46.51	49.04	-2.54**
17	6.991	46.51	50.00	-3.49
18	2.540	42.38	46.00	-3.62**
19	6.809	46.31	50.00	-3.69
20	7.217	46.21	50.00	-3.79
21	0.853	42.02	46.00	-3.98**
22	2.582	41.88	46.00	-4.12**
23	0.290	46.42	50.54	-4.12**
24	1.840	41.86	46.00	-4.14**
25	1.184	41.84	46.00	-4.16**
26	0.358	44.51	48.78	-4.27**
27	0.282	46.43	50.76	-4.33**
28	2.034	41.67	46.00	-4.33**
29	16.226	45.66	50.00	-4.34
30	0.317	45.41	49.79	-4.39**
31	0.332	45.01	49.39	-4.39**
32	0.500	41.61	46.01	-4.39**
33	3.924	41.61	46.00	-4.39**
34	0.513	41.51	46.00	-4.49**
35	0.409	43.11	47.68	-4.57**
36	0.369	43.91	48.52	-4.61**
37	4.159	41.31	46.00	-4.69
38	2.214	41.17	46.00	-4.83**
39	0.835	41.12	46.00	-4.88**
40	0.440	42.01	47.06	-5.05**
41	0.424	42.21	47.37	-5.16**
42	0.826	40.82	46.00	-5.18**
43	7.100	44.71	50.00	-5.29
44	2.168	40.67	46.00	-5.33**
45	0.459	41.21	46.71	-5.50**
46	0.486	40.61	46.23	-5.62**

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/28/2004 13:33:06

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-232 Mode
FCC Class B - White - 115 VAC
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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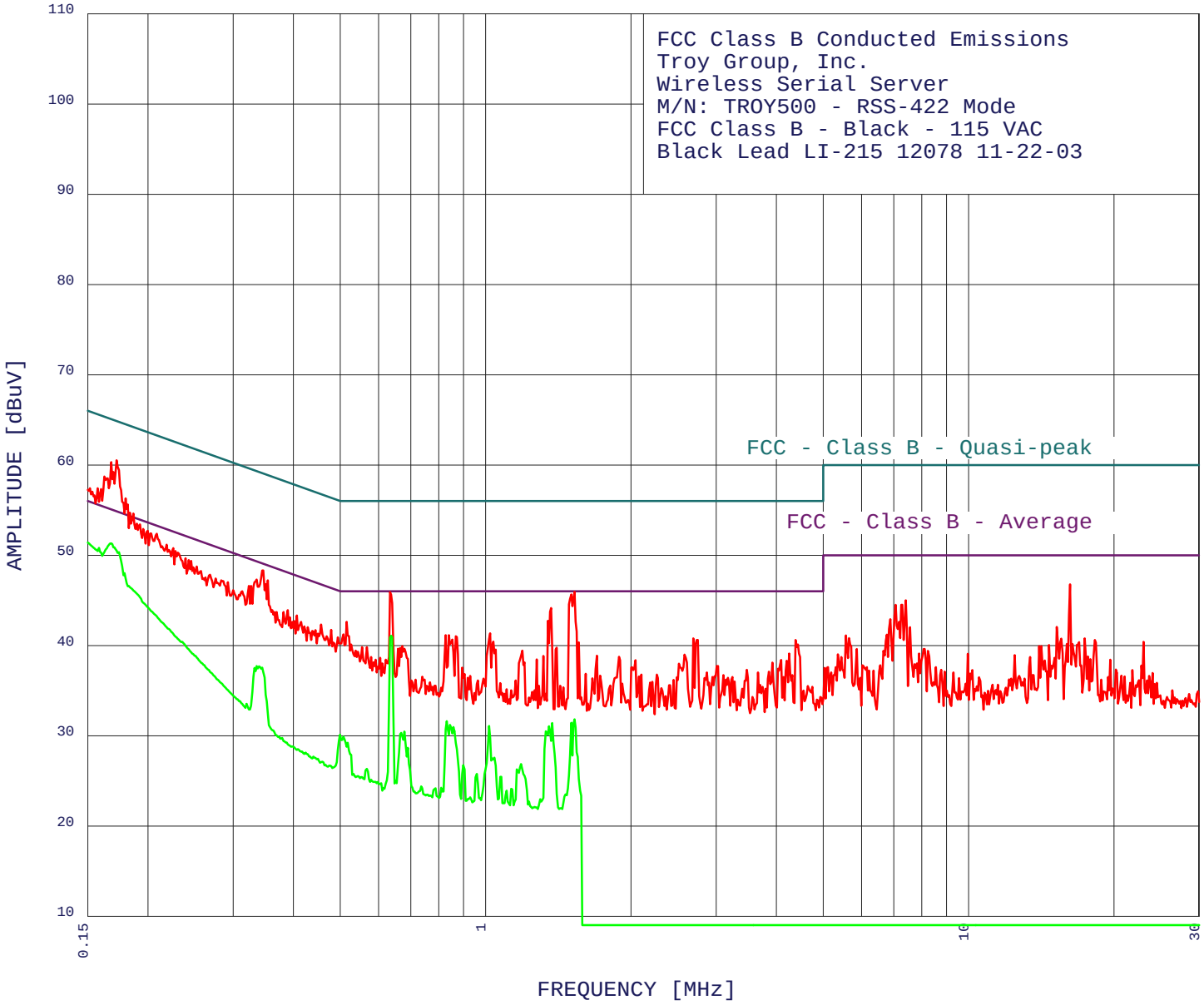
46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	35.39	46.00	-10.61
2	0.168	44.06	55.07	-11.01
3	1.184	34.87	46.00	-11.13
4	0.164	43.51	55.25	-11.74
5	0.172	43.04	54.86	-11.81
6	1.016	33.98	46.00	-12.02
7	1.496	32.81	46.00	-13.19
8	1.148	32.19	46.00	-13.81
9	0.162	41.16	55.38	-14.22
10	0.175	40.08	54.72	-14.64
11	1.318	31.11	46.00	-14.89
12	1.345	30.98	46.00	-15.02
13	1.520	30.93	46.00	-15.07
14	0.339	33.54	49.22	-15.68
15	1.367	30.17	46.00	-15.83
16	1.077	30.16	46.00	-15.84
17	0.332	33.54	49.39	-15.86
18	0.844	30.08	46.00	-15.92
19	0.904	29.99	46.00	-16.01
20	1.106	29.95	46.00	-16.05
21	0.990	29.81	46.00	-16.19
22	0.958	29.74	46.00	-16.26
23	1.130	29.49	46.00	-16.51
24	1.536	29.21	46.00	-16.79
25	0.669	29.06	46.00	-16.94
26	0.494	29.09	46.09	-17.00
27	0.679	28.87	46.00	-17.13
28	0.502	28.86	46.00	-17.14
29	0.826	28.75	46.00	-17.25
30	0.325	32.25	49.57	-17.33
31	0.486	28.70	46.23	-17.53
32	0.658	28.25	46.00	-17.75
33	0.343	31.29	49.13	-17.85
34	1.160	28.06	46.00	-17.94
35	0.508	28.03	46.00	-17.97
36	1.049	27.92	46.00	-18.08
37	1.249	27.43	46.00	-18.57
38	2.514	27.23	46.00	-18.77
39	1.849	26.97	46.00	-19.03
40	1.810	26.97	46.00	-19.03
41	0.158	36.40	55.56	-19.16
42	2.013	26.82	46.00	-19.18
43	1.790	26.82	46.00	-19.18
44	2.475	26.43	46.00	-19.57
45	0.177	34.97	54.63	-19.66
46	0.809	26.32	46.00	-19.68

EMISSION LEVEL [dBuV] PEAK 9/28/2004 8:07:28
Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/28/2004 8:07:28

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-422 Mode
FCC Class B - Black - 115 VAC
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.172	60.51	54.86	5.66**
2	0.168	60.32	55.07	5.25**
3	0.162	58.72	55.34	3.38**
4	0.160	57.32	55.47	1.85**
5	0.157	57.43	55.60	1.83**
6	0.180	56.31	54.50	1.81**
7	0.186	54.60	54.19	0.41**
8	0.183	54.71	54.33	0.38**
9	1.528	45.95	46.00	-0.05**
10	0.634	45.92	46.00	-0.08**
11	1.504	45.65	46.00	-0.35**
12	0.347	48.31	49.04	-0.74**
13	0.200	52.69	53.62	-0.93**
14	0.202	52.39	53.53	-1.14**
15	0.354	47.21	48.87	-1.66**
16	1.367	44.14	46.00	-1.86**
17	0.228	50.47	52.52	-2.05**
18	0.239	49.66	52.12	-2.46**
19	0.243	49.46	52.00	-2.54**
20	0.327	46.61	49.53	-2.92**
21	0.324	46.61	49.62	-3.01**
22	16.226	46.76	50.00	-3.24
23	1.345	42.74	46.00	-3.26**
24	0.269	47.84	51.15	-3.32**
25	0.516	42.61	46.00	-3.39**
26	0.293	47.02	50.45	-3.43**
27	0.389	43.91	48.08	-4.17**
28	0.406	43.31	47.72	-4.41**
29	0.457	42.31	46.76	-4.45**
30	0.381	43.71	48.25	-4.54**
31	0.479	41.71	46.36	-4.65**
32	1.021	41.33	46.00	-4.67**
33	0.508	41.21	46.00	-4.79**
34	0.369	43.71	48.52	-4.81**
35	0.839	41.12	46.00	-4.88**
36	0.826	41.12	46.00	-4.88**
37	0.867	41.02	46.00	-4.98**
38	7.411	45.01	50.00	-4.99
39	2.693	40.79	46.00	-5.21
40	0.445	41.71	46.98	-5.26**
41	0.428	42.01	47.28	-5.27**
42	4.384	40.61	46.00	-5.39
43	2.751	40.59	46.00	-5.41
44	7.294	44.51	50.00	-5.49
45	7.063	44.51	50.00	-5.49
46	1.038	40.43	46.00	-5.57**

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/28/2004 8:07:28

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-422 Mode
FCC Class B - Black - 115 VAC
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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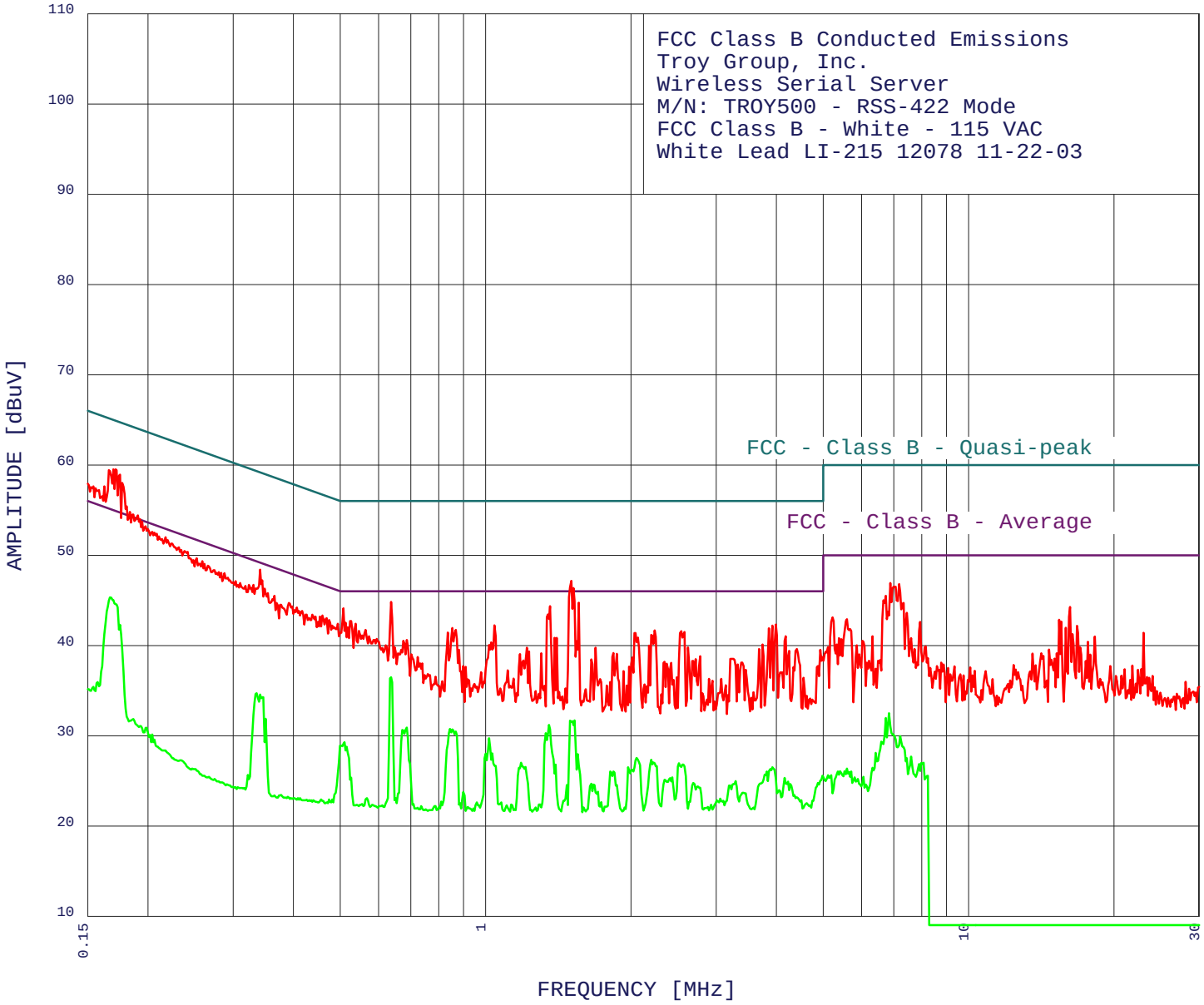
46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.168	51.31	55.07	-3.76
2	0.174	50.35	54.77	-4.41
3	0.158	50.83	55.56	-4.73
4	0.637	41.08	46.00	-4.92
5	0.179	48.00	54.54	-6.54
6	0.339	37.68	49.22	-11.54
7	0.345	37.54	49.09	-11.55
8	0.336	37.71	49.31	-11.60
9	0.332	37.52	49.39	-11.88
10	1.528	31.82	46.00	-14.18
11	0.831	31.59	46.00	-14.41
12	1.504	31.42	46.00	-14.58
13	1.374	31.41	46.00	-14.59
14	0.844	31.18	46.00	-14.82
15	1.016	31.07	46.00	-14.93
16	1.352	31.04	46.00	-14.96
17	0.858	30.96	46.00	-15.04
18	1.331	30.50	46.00	-15.50
19	0.679	30.45	46.00	-15.55
20	0.669	30.32	46.00	-15.68
21	0.500	30.11	46.01	-15.89
22	0.508	29.90	46.00	-16.10
23	0.320	33.54	49.71	-16.17
24	0.518	29.21	46.00	-16.79
25	0.690	28.67	46.00	-17.33
26	1.043	27.56	46.00	-18.44
27	0.379	29.76	48.29	-18.54
28	1.184	26.85	46.00	-19.15
29	0.424	28.12	47.37	-19.25
30	0.899	26.74	46.00	-19.26
31	0.440	27.68	47.06	-19.38
32	0.567	26.31	46.00	-19.69
33	1.160	26.28	46.00	-19.72
34	0.476	26.67	46.40	-19.73
35	0.958	25.78	46.00	-20.22
36	0.532	25.76	46.00	-20.24
37	0.544	25.53	46.00	-20.47
38	1.077	25.44	46.00	-20.56
39	0.555	25.42	46.00	-20.58
40	0.580	25.12	46.00	-20.88
41	0.651	25.00	46.00	-21.00
42	0.598	24.88	46.00	-21.12
43	0.608	24.75	46.00	-21.25
44	0.735	24.37	46.00	-21.63
45	0.809	24.23	46.00	-21.77
46	0.788	24.16	46.00	-21.84

EMISSION LEVEL [dBuV] PEAK 9/28/2004 8:20:09

Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/28/2004 8:20:09

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-422 Mode
FCC Class B - White - 115 VAC
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.171	59.52	54.90	4.62**
2	0.170	59.52	54.98	4.53**
3	0.166	59.42	55.16	4.26**
4	0.175	58.91	54.72	4.19**
5	0.177	58.01	54.63	3.38**
6	0.162	57.62	55.34	2.28**
7	1.504	47.15	46.00	1.15**
8	1.520	46.35	46.00	0.35**
9	0.341	48.41	49.18	-0.77**
10	0.637	44.82	46.00	-1.18**
11	1.560	44.75	46.00	-1.25**
12	1.359	44.34	46.00	-1.66**
13	0.508	44.11	46.00	-1.89**
14	6.882	46.91	50.00	-3.09**
15	7.178	46.81	50.00	-3.19**
16	0.527	42.71	46.00	-3.29**
17	0.391	44.71	48.03	-3.33**
18	0.459	43.31	46.71	-3.40**
19	7.063	46.51	50.00	-3.49**
20	0.538	42.41	46.00	-3.59**
21	0.454	43.21	46.80	-3.59**
22	0.474	42.81	46.45	-3.64**
23	3.987	42.31	46.00	-3.69**
24	0.438	43.41	47.11	-3.70**
25	1.043	42.23	46.00	-3.77**
26	3.924	42.21	46.00	-3.79**
27	0.377	44.51	48.34	-3.83**
28	0.518	42.01	46.00	-3.99**
29	0.853	41.92	46.00	-4.08**
30	3.862	41.91	46.00	-4.09**
31	0.867	41.72	46.00	-4.28**
32	0.564	41.71	46.00	-4.29**
33	2.238	41.67	46.00	-4.33**
34	2.540	41.58	46.00	-4.42**
35	6.736	45.51	50.00	-4.49**
36	0.835	41.42	46.00	-4.58**
37	2.044	41.37	46.00	-4.63**
38	4.182	41.01	46.00	-4.99**
39	1.404	40.84	46.00	-5.16**
40	1.389	40.84	46.00	-5.16**
41	0.686	40.62	46.00	-5.38**
42	0.676	40.52	46.00	-5.48**
43	16.226	44.26	50.00	-5.74
44	3.741	40.11	46.00	-5.89**
45	2.179	39.97	46.00	-6.03**
46	0.648	39.82	46.00	-6.18**

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/28/2004 8:20:09

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-422 Mode
FCC Class B - White - 115 VAC
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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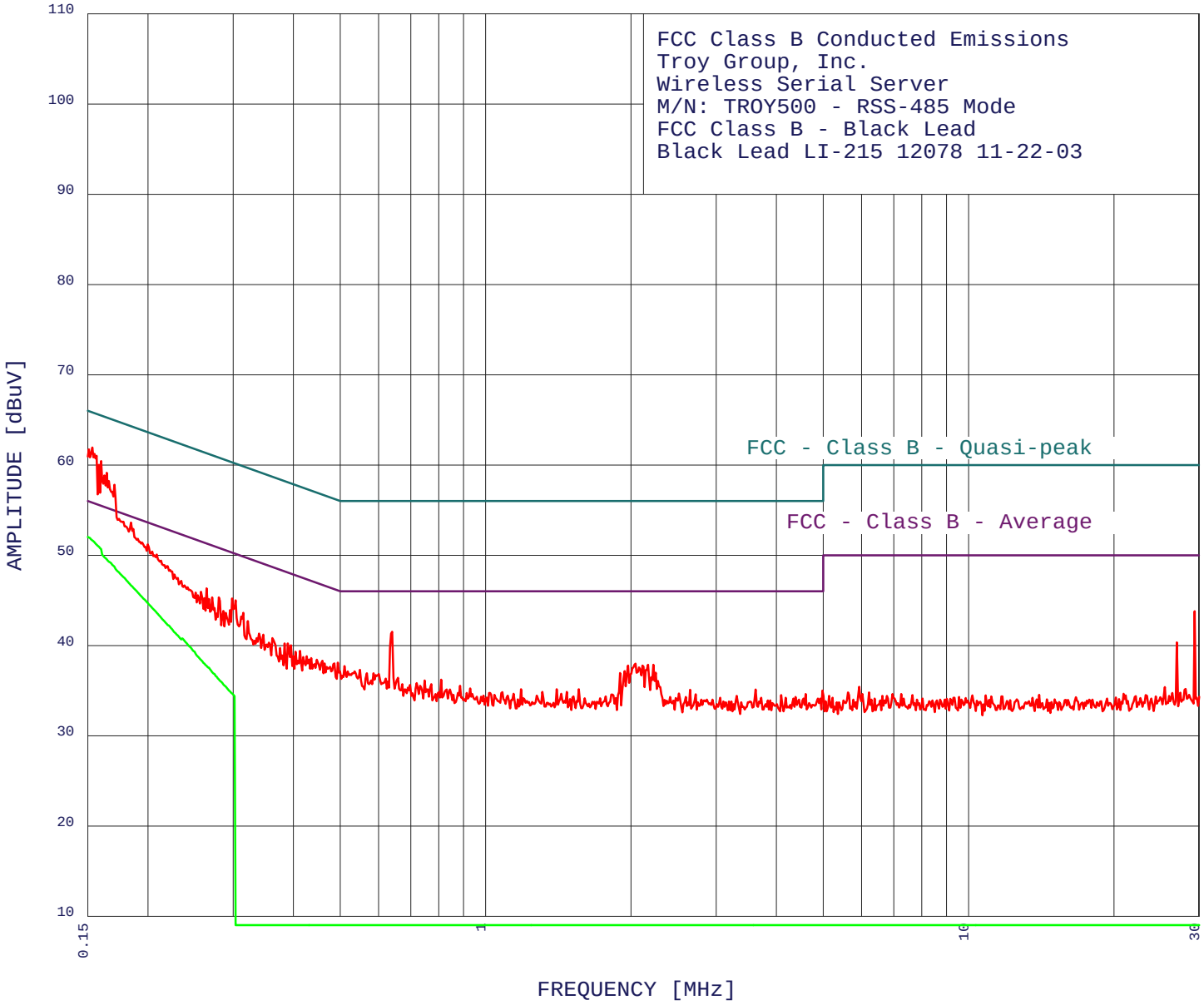
46 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	36.49	46.00	-9.51
2	0.167	45.32	55.11	-9.80
3	0.175	42.27	54.72	-12.45
4	1.528	31.71	46.00	-14.29
5	1.496	31.68	46.00	-14.32
6	0.336	34.72	49.31	-14.59
7	0.341	34.56	49.18	-14.62
8	0.347	34.27	49.04	-14.78
9	1.352	31.20	46.00	-14.80
10	0.686	30.90	46.00	-15.10
11	0.844	30.74	46.00	-15.26
12	0.853	30.68	46.00	-15.32
13	0.672	30.65	46.00	-15.35
14	0.867	30.45	46.00	-15.55
15	1.331	30.27	46.00	-15.73
16	1.016	29.71	46.00	-16.29
17	0.510	29.28	46.00	-16.72
18	0.350	31.89	48.95	-17.07
19	0.516	28.78	46.00	-17.22
20	6.845	32.51	50.00	-17.49
21	1.032	28.05	46.00	-17.95
22	1.000	28.01	46.00	-17.99
23	6.736	31.97	50.00	-18.03
24	1.552	27.94	46.00	-18.06
25	2.055	27.55	46.00	-18.45
26	2.201	27.32	46.00	-18.68
27	2.226	27.03	46.00	-18.97
28	1.184	27.00	46.00	-19.00
29	2.514	26.94	46.00	-19.06
30	1.397	26.80	46.00	-19.20
31	2.568	26.79	46.00	-19.21
32	1.210	26.55	46.00	-19.45
33	1.971	26.51	46.00	-19.49
34	3.924	26.51	46.00	-19.49
35	0.157	35.95	55.60	-19.65
36	3.882	26.30	46.00	-19.70
37	2.013	26.20	46.00	-19.80
38	1.840	26.03	46.00	-19.97
39	1.810	26.03	46.00	-19.97
40	3.820	26.03	46.00	-19.97
41	7.217	29.96	50.00	-20.04
42	0.154	35.42	55.78	-20.36
43	4.980	25.57	46.00	-20.43
44	2.436	25.37	46.00	-20.63
45	0.527	25.36	46.00	-20.64
46	6.593	29.34	50.00	-20.66

EMISSION LEVEL [dBuV] PEAK 9/27/2004 16:08:10
Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/27/2004 16:08:10

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-485 Mode
FCC Class B - Black Lead
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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45 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.153	61.93	55.82	6.11**
2	0.160	60.42	55.47	4.95**
3	0.158	60.03	55.56	4.47**
4	0.164	59.12	55.25	3.87**
5	0.170	57.82	54.94	2.87**
6	0.641	41.52	46.00	-4.48
7	0.265	46.34	51.29	-4.95**
8	0.299	45.21	50.28	-5.06**
9	0.280	45.33	50.81	-5.48**
10	0.258	45.95	51.51	-5.56**
11	0.272	45.34	51.07	-5.73**
12	0.262	45.24	51.38	-6.13**
13	29.387	43.78	50.00	-6.22
14	0.315	43.61	49.84	-6.23
15	0.296	43.92	50.36	-6.45**
16	0.286	43.82	50.63	-6.80**
17	0.290	43.62	50.54	-6.92**
18	0.322	42.71	49.66	-6.96
19	0.347	41.21	49.04	-7.84
20	0.389	40.21	48.08	-7.87
21	0.362	40.81	48.69	-7.88
22	0.339	41.31	49.22	-7.91
23	0.396	40.01	47.95	-7.94
24	0.494	38.11	46.09	-7.98
25	0.383	40.21	48.21	-8.00
26	2.044	37.97	46.00	-8.03
27	2.226	37.87	46.00	-8.13
28	2.168	37.87	46.00	-8.13
29	0.413	39.41	47.59	-8.18
30	0.486	38.01	46.23	-8.22
31	2.111	37.77	46.00	-8.23
32	1.971	37.76	46.00	-8.24
33	0.510	37.71	46.00	-8.29
34	0.459	38.31	46.71	-8.40
35	0.404	39.31	47.77	-8.46
36	0.426	38.81	47.33	-8.52
37	0.447	38.41	46.93	-8.52
38	0.435	38.61	47.15	-8.54
39	0.375	39.71	48.38	-8.67
40	0.550	37.31	46.00	-8.69
41	1.939	37.16	46.00	-8.84
42	1.899	36.96	46.00	-9.04
43	0.400	38.81	47.86	-9.05
44	0.586	36.92	46.00	-9.08
45	0.567	36.91	46.00	-9.09

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/27/2004 16:08:10

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-485 Mode
FCC Class B - Black Lead
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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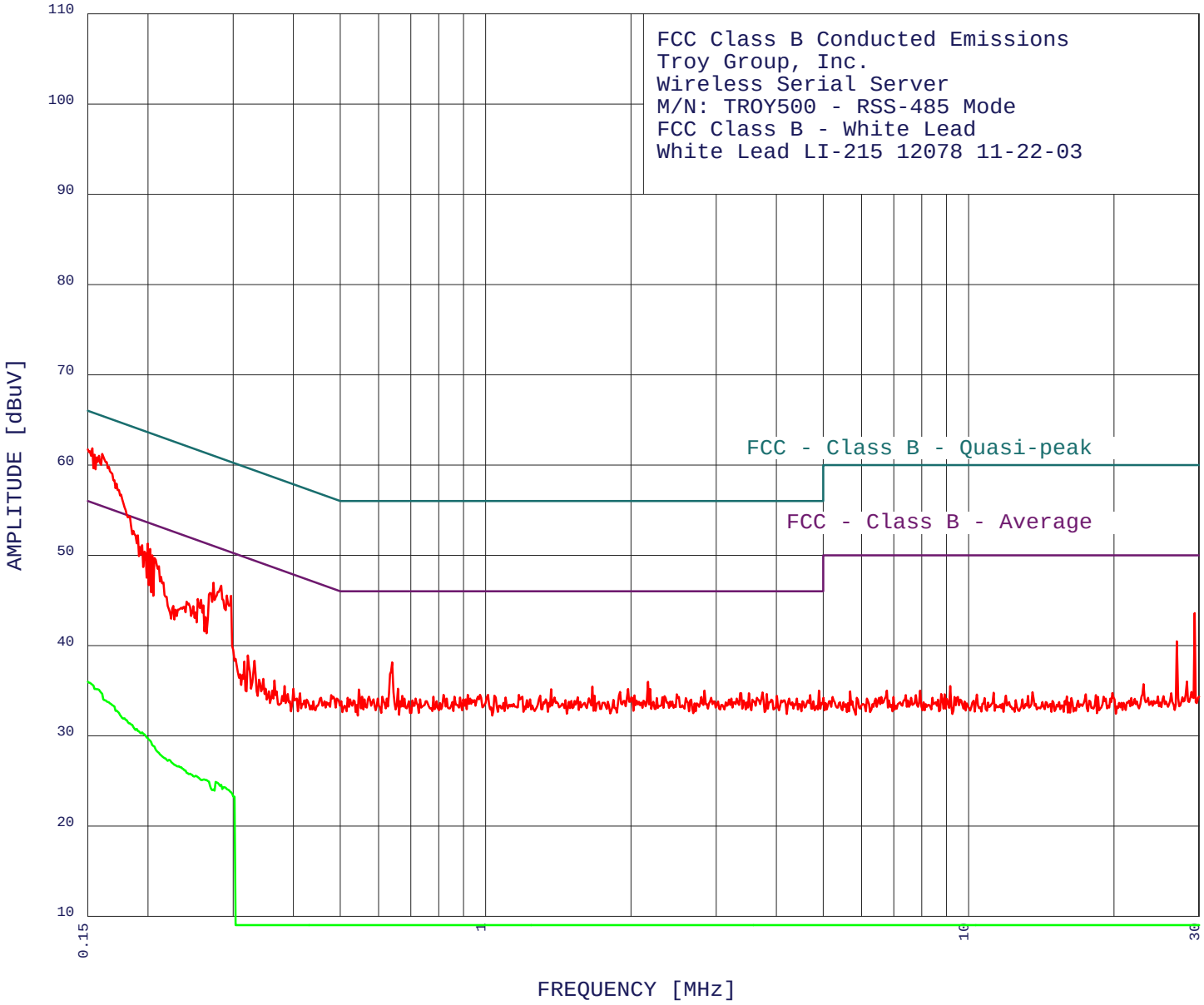
1 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.235	40.78	52.25	-11.47

EMISSION LEVEL [dBuV] PEAK 9/27/2004 16:18:36
Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

9/27/2004 16:18:36

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-485 Mode
FCC Class B - White Lead
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

45 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.161	61.22	55.43	5.80**
2	0.158	61.03	55.56	5.47**
3	0.155	61.13	55.73	5.40**
4	0.200	51.29	53.62	-2.33**
5	0.195	51.10	53.84	-2.74**
6	0.202	50.69	53.53	-2.84**
7	0.197	50.40	53.75	-3.36**
8	0.204	49.99	53.44	-3.45**
9	0.206	49.69	53.35	-3.67**
10	0.273	46.93	51.02	-4.09**
11	0.283	46.63	50.72	-4.09**
12	0.297	45.52	50.32	-4.81**
13	0.291	45.52	50.49	-4.97**
14	0.269	45.84	51.15	-5.32**
15	29.387	43.58	50.00	-6.42
16	0.254	45.15	51.64	-6.49**
17	0.240	44.86	52.08	-7.22**
18	0.248	44.35	51.82	-7.46**
19	0.641	38.12	46.00	-7.88
20	0.263	43.14	51.33	-8.19**
21	0.226	44.37	52.61	-8.24**
22	26.999	40.44	50.00	-9.56
23	2.168	35.97	46.00	-10.03
24	1.663	35.45	46.00	-10.55
25	0.322	38.91	49.66	-10.76
26	0.658	35.22	46.00	-10.78
27	2.190	35.17	46.00	-10.83
28	1.971	35.16	46.00	-10.84
29	1.367	35.14	46.00	-10.86
30	0.547	35.11	46.00	-10.89
31	4.902	35.01	46.00	-10.99
32	2.840	34.99	46.00	-11.01
33	0.332	38.31	49.39	-11.09
34	1.899	34.86	46.00	-11.14
35	3.741	34.81	46.00	-11.19
36	3.511	34.71	46.00	-11.29
37	3.383	34.71	46.00	-11.29
38	3.820	34.61	46.00	-11.39
39	2.488	34.58	46.00	-11.42
40	1.172	34.54	46.00	-11.46
41	1.011	34.53	46.00	-11.47
42	0.974	34.53	46.00	-11.47
43	0.919	34.53	46.00	-11.47
44	0.818	34.52	46.00	-11.48
45	4.696	34.51	46.00	-11.49

** Please See the Average Printed Peaks Data Sheet and the Average Plot on the Graph

COMPATIBLE ELECTRONICS

9/27/2004 16:18:36

FCC Class B Conducted Emissions
Troy Group, Inc.
Wireless Serial Server
M/N: TROY500 - RSS-485 Mode
FCC Class B - White Lead
White Lead LI-215 12078 11-22-03
TEST ENGINEER : Kyle Fujimoto

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14 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.157	35.16	55.60	-20.44
2	0.172	32.79	54.86	-22.06
3	0.179	31.94	54.54	-22.60
4	0.189	30.76	54.06	-23.30
5	0.195	30.37	53.84	-23.47
6	0.221	27.33	52.78	-25.46
7	0.232	26.63	52.39	-25.76
8	0.276	24.89	50.94	-26.04
9	0.244	25.81	51.95	-26.14
10	0.283	24.57	50.72	-26.15
11	0.251	25.57	51.73	-26.15
12	0.260	25.15	51.42	-26.27
13	0.286	24.30	50.63	-26.32
14	0.273	24.04	51.02	-26.98
