



Conducted Emissions Test Report

November 24, 2008

Contents

1 Conducted Emissions Results 1

1.1 Test Summary 2

1.2 Spurious Conducted Emissions 3

Test Details 3

1.3 Output Power 4

Test Details 4

1.4 Occupied Bandwidth 5

Test Details 5

List of Tables

1.1	Test Equipment	2
1.2	GSM Output Power	4
1.3	CDMA Output Power	4
1.4	Multicarrier Output Power	4
1.5	GSM Occupied Bandwidth	5
1.6	CDMA Occupied Bandwidth	5
1.7	./gsm-band-edge/low-band-edge-total-power.pdf	6
1.8	./gsm-band-edge/low-band-edge-1924.pdf	7
1.9	./gsm-band-edge/low-band-edge-1925.pdf	8
1.10	./gsm-band-edge/low-band-edge-1926.pdf	9
1.11	./gsm-band-edge/low-band-edge-1927.pdf	10
1.12	./gsm-band-edge/low-band-edge-1928.pdf	11
1.13	./gsm-band-edge/low-band-edge-1929.pdf	12
1.14	./gsm-band-edge/low-band-edge-1930.pdf	13
1.15	./gsm-band-edge/low-band-edge-1900-1924.pdf	14
1.16	./gsm-band-edge/low-band-edge-30-1900.pdf	15
1.17	./gsm-band-edge/low-band-edge-30-1900-001.pdf	16
1.18	./gsm-band-edge/high-band-edge-total-power.pdf	17
1.19	./gsm-band-edge/high-band-edge-1990.pdf	18
1.20	./gsm-band-edge/high-band-edge-1991.pdf	19
1.21	./gsm-band-edge/high-band-edge-1992.pdf	20
1.22	./gsm-band-edge/high-band-edge-1993.pdf	21

1.23	./gsm-band-edge/high-band-edge-1994.pdf	22
1.24	./gsm-band-edge/high-band-edge-1995.pdf	23
1.25	./gsm-band-edge/high-band-edge-1996-2500.pdf	24
1.26	./gsm-band-edge/high-band-edge-10-20.pdf	25
1.27	./gsm-band-edge/high-band-edge-2pt5-10.pdf	26
1.28	./cdma-band-edge/cdma-band-edge-low-total-power.pdf	27
1.29	./cdma-band-edge/cdma-band-edge-1929.pdf	28
1.30	./cdma-band-edge/cdma-band-edge-1928.pdf	29
1.31	./cdma-band-edge/cdma-band-edge-1927.pdf	30
1.32	./cdma-band-edge/cdma-band-edge-1926.pdf	31
1.33	./cdma-band-edge/cdma-band-edge-1925.pdf	32
1.34	./cdma-band-edge/cdma-band-edge-1900-1925.pdf	33
1.35	./cdma-band-edge/cdma-band-edge-30k-1900.pdf	34
1.36	./cdma-band-edge/cdma-band-edge-high-total-power.pdf	35
1.37	./cdma-band-edge/cdma-band-edge-1990.pdf	36
1.38	./cdma-band-edge/cdma-band-edge-1992.pdf	37
1.39	./cdma-band-edge/cdma-band-edge-1993.pdf	38
1.40	./cdma-band-edge/cdma-band-edge-1994.pdf	39
1.41	./cdma-band-edge/cdma-band-edge-1995.pdf	40
1.42	./cdma-band-edge/cdma-band-edge-1995-2500.pdf	41
1.43	./cdma-band-edge/cdma-band-edge-2pt5-10.pdf	42
1.44	./cdma-band-edge/cdma-band-edge-10-20.pdf	43
1.45	./gsm-band-edge/8gsm-mid-total-power.pdf	44
1.46	./gsm-band-edge/8gsm-mid-bw1.pdf	45
1.47	./gsm-band-edge/8gsm-mid-bw2.pdf	46
1.48	./gsm-band-edge/8gsm-mid-bw3.pdf	47
1.49	./gsm-band-edge/8gsm-mid-bw4.pdf	48
1.50	./gsm-band-edge/8gsm-mid-bw5.pdf	49

1.51	./gsm-band-edge/8gsm-mid-bw6.pdf	50
1.52	./gsm-band-edge/8gsm-mid-bw7.pdf	51
1.53	./gsm-band-edge/8gsm-mid-bw8.pdf	52
1.54	./8cdma-4gsm-mid/8cdma-4gsm-total-power-1930-1990.pdf	53
1.55	./8cdma-4gsm-mid/8cdma-4gsm-30k-1930.pdf	54
1.56	./8cdma-4gsm-mid/8cdma-4gsm-1990-2pt5.pdf	55
1.57	./8cdma-4gsm-mid/8cdma-4gsm-2pt5-10.pdf	56
1.58	./8cdma-4gsm-mid/8cdma-4gsm-10-20.pdf	57
1.59	./gsm-patterns/1gsm-a-max-hold-rms-99power-bw.pdf	58
1.60	./gsm-patterns/1gsm-b-max-hold-rms-99power-bw.pdf	59
1.61	./gsm-patterns/1gsm-c-max-hold-rms-99power-bw.pdf	60
1.62	./gsm-patterns/1gsm-d-max-hold-rms-99power-bw.pdf	61
1.63	./gsm-patterns/1gsm-e-max-hold-rms-99power-bw.pdf	62
1.64	./gsm-patterns/1gsm-f-max-hold-rms-99power-bw.pdf	63
1.65	./gsm-patterns/1gsm-g-max-hold-rms-99power-bw.pdf	64
1.66	./gsm-patterns/1gsm-h-max-hold-rms-99power-bw.pdf	65
1.67	./gsm-patterns/1gsm-i-max-hold-rms-99power-bw.pdf	66
1.68	./gsm-patterns/1gsm-j-max-hold-rms-99power-bw.pdf	67
1.69	./gsm-patterns/1gsm-k-max-hold-rms-99power-bw.pdf	68
1.70	./gsm-patterns/1gsm-a-ave-power.pdf	69
1.71	./gsm-patterns/1gsm-b-ave-power.pdf	70
1.72	./gsm-patterns/1gsm-c-ave-power.pdf	71
1.73	./gsm-patterns/1gsm-d-ave-power.pdf	72
1.74	./gsm-patterns/1gsm-e-ave-power.pdf	73
1.75	./gsm-patterns/1gsm-f-ave-power.pdf	74
1.76	./gsm-patterns/1gsm-g-ave-power.pdf	75
1.77	./gsm-patterns/1gsm-h-ave-power.pdf	76
1.78	./gsm-patterns/1gsm-i-ave-power.pdf	77

1.79	./gsm-patterns/1gsm-j-ave-power.pdf	78
1.80	./gsm-patterns/1gsm-k-ave-power.pdf	79
1.81	./cdma-patterns/cdma-pattern-a-max-hold-occ-bw.pdf	80
1.82	./cdma-patterns/cdma-pattern-b-max-hold-occ-bw.pdf	81
1.83	./cdma-patterns/cdma-pattern-c-max-hold-occ-bw.pdf	82
1.84	./cdma-patterns/cdma-pattern-d-max-hold-occ-bw.pdf	83
1.85	./cdma-patterns/cdma-pattern-e-max-hold-occ-bw.pdf	84
1.86	./cdma-patterns/cdma-pattern-f-max-hold-occ-bw.pdf	85
1.87	./cdma-patterns/cdma-pattern-a-ave-power.pdf	86
1.88	./cdma-patterns/cdma-pattern-b-ave-power.pdf	87
1.89	./cdma-patterns/cdma-pattern-c-ave-power.pdf	88
1.90	./cdma-patterns/cdma-pattern-d-ave-power.pdf	89
1.91	./cdma-patterns/cdma-pattern-e-ave-power.pdf	90
1.92	./cdma-patterns/cdma-pattern-f-ave-power.pdf	91
1.93	./8cdma-mid/8cdma-total-power-1930-1990.pdf	92
1.94	./8cdma-mid/8cdma-30k-1930.pdf	93
1.95	./8cdma-mid/8cdma-1990-2pt5.pdf	94
1.96	./8cdma-mid/8cdma-2pt5-10.pdf	95
1.97	./8cdma-mid/8cdma-10-20g.pdf	96

Chapter 1

Conducted Emissions Results

1.1 Test Summary

Test	Test Parameter	Results
RF Output Power FCC 2.1046, 24.232	RF Output Power must not exceed +50dBm	PASS
Occupied Bandwidth FCC 2.1049	Emissions must stay within assigned bandwidth	PASS
Spurious Conducted Emissions FCC 2.1051 24.238	Emissions outside the passband must remain below -13dBm/1MHz	PASS

Table 1.1: Test Equipment

Item	Equipment Type	Make	Model #	Serial #	Next Cal. Due
1	Spectrum Analyzer	Rohde & Schwarz	FSU-26	200635	12/14/2008

1.2 Spurious Conducted Emissions

Test Standard: FCC 2.1051, 24.238

Test Results: Pass

Test Details

We connected the device to the spectrum analyzer with an SMA cable of 0.9dB attenuation, and compensated for the cable loss in the spectrum analyzer. We produced the following transmit patterns, and measured the spurious energy. In all cases it remained below the -13 dBm requirement.

1. 8 GSM Low Band Edge
2. 8 GSM High Band Edge
3. 8 CDMA Low Band Edge
4. 8 CDMA High Band Edge
5. 8 CDMA 4 GSM Middle of Band
6. 8 CDMA Middle of Band

1.3 Output Power

Test Standard: FCC 2.1046, 24.232 RF Output Power must not exceed +50dBm

Test Results: Pass

Test Details

We configured the device to output the following test patterns. In all cases the total power does not exceed 50dBm.

Table 1.2: GSM Output Power

Test	Results (dBm)
GSM Test Pattern A	-16.90
GSM Test Pattern B	-16.12
GSM Test Pattern C	-17.59
GSM Test Pattern D	-16.13
GSM Test Pattern E	-17.49
GSM Test Pattern F	-18.50
GSM Test Pattern G	-17.09
GSM Test Pattern H	-17.62
GSM Test Pattern J	-16.13
GSM Test Pattern K	-32.86

Table 1.3: CDMA Output Power

Test	Results (dBm)
CDMA Test Pattern A	-13.65
CDMA Test Pattern B	-5.93
CDMA Test Pattern C	-5.92
CDMA Test Pattern D	-8.78
CDMA Test Pattern E	-29.31
CDMA Test Pattern F	-18.50

Table 1.4: Multicarrier Output Power

Test	Results (dBm)
8 GSM	-7.09
8 CDMA	-9.03
8 CDMA 4 GSM	-7.82

1.4 Occupied Bandwidth

Test Standard: FCC 2.1051, 24.238

Test Results: Pass

Test Details

Using the same setup and test patterns as in the Output Power test, we measured the occupied bandwidth (99% power) of the test signal using a greater than 1% resolution bandwidth setting, using max hold function with a RMS detector.

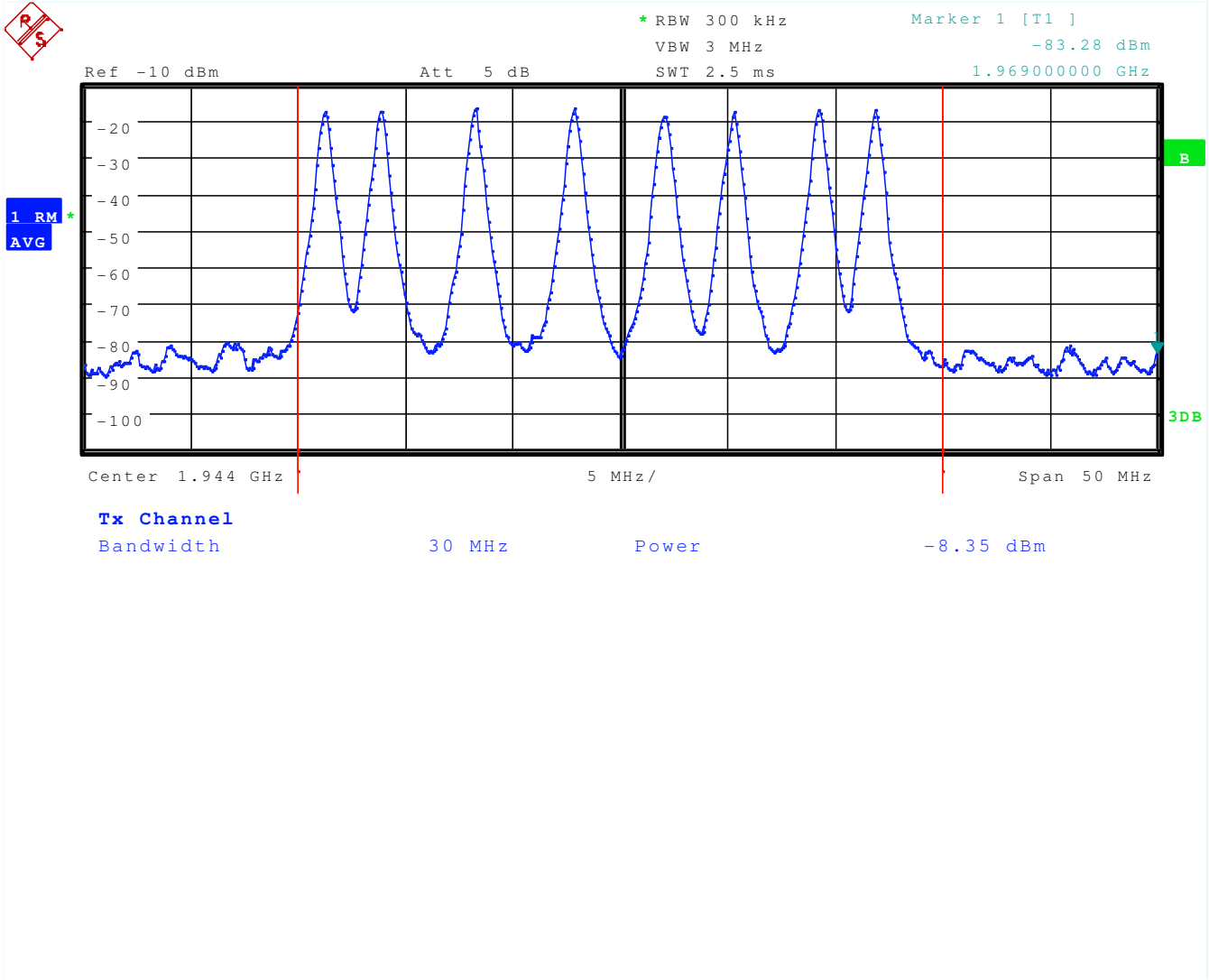
Table 1.5: GSM Occupied Bandwidth

Test	Results(KHz)
Software Test A	233.9
Software Test B	171.4
Software Test C	251.6
Software Test D	275.6
Software Test E	240.4
Software Test F	242.0
Software Test G	232.2
Software Test H	275.6
Software Test J	232.4

Table 1.6: CDMA Occupied Bandwidth

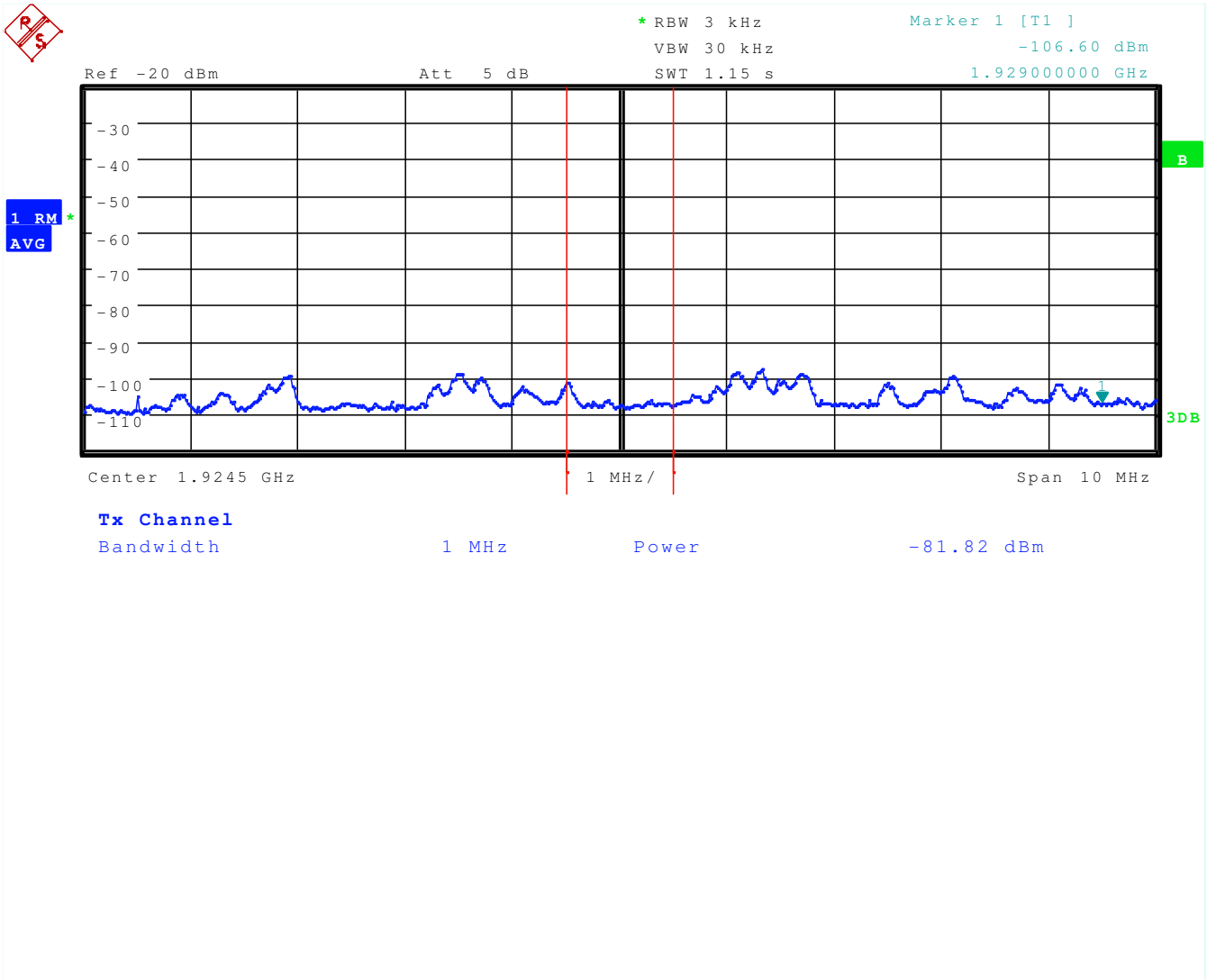
Test	Results(MHz)
Software Test Pattern A	1.282
Software Test Pattern B	0.048
Software Test Pattern C	0.048
Software Test Pattern D	1.274
Software Test Pattern E	1.274
Software Test Pattern F	1.282

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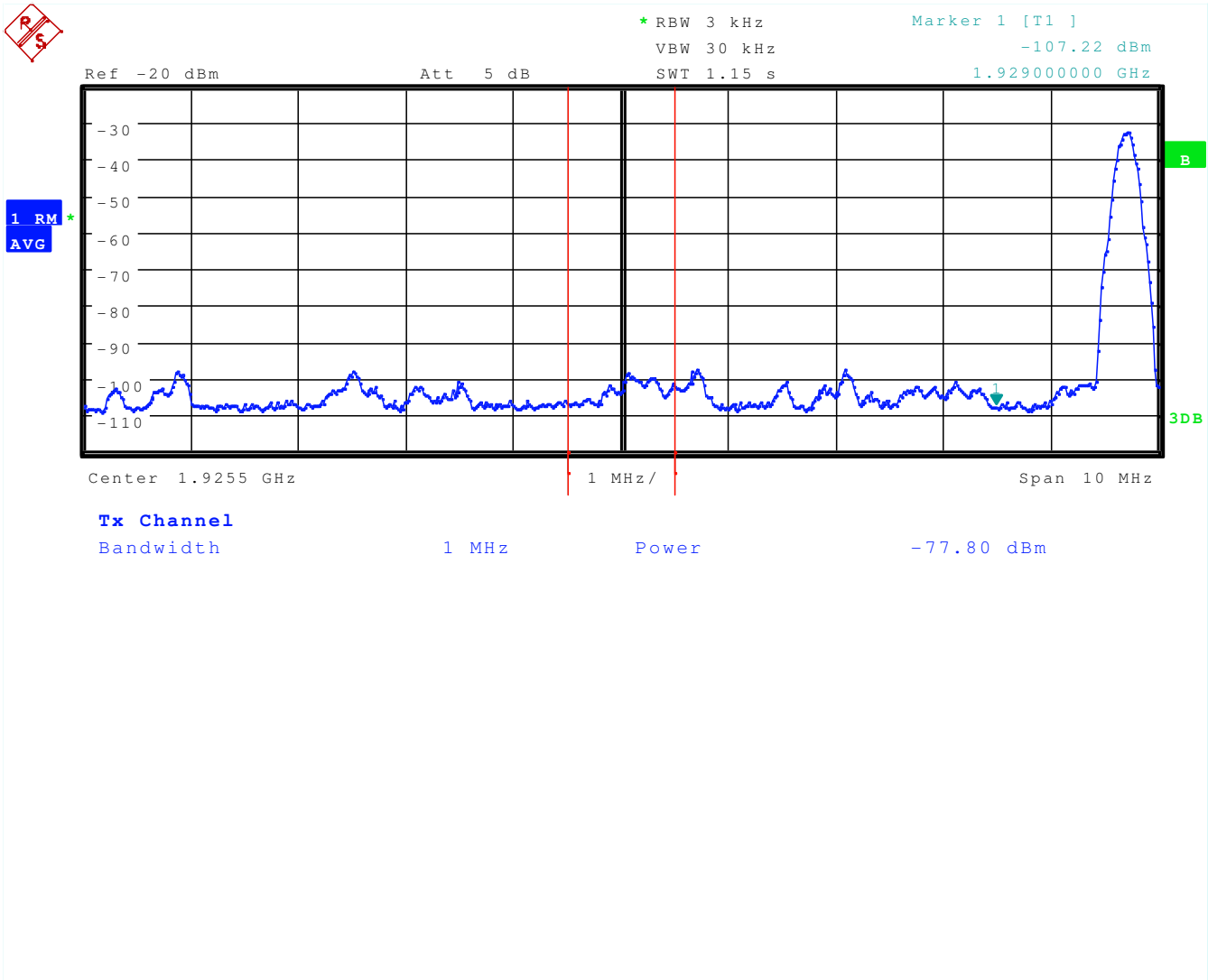
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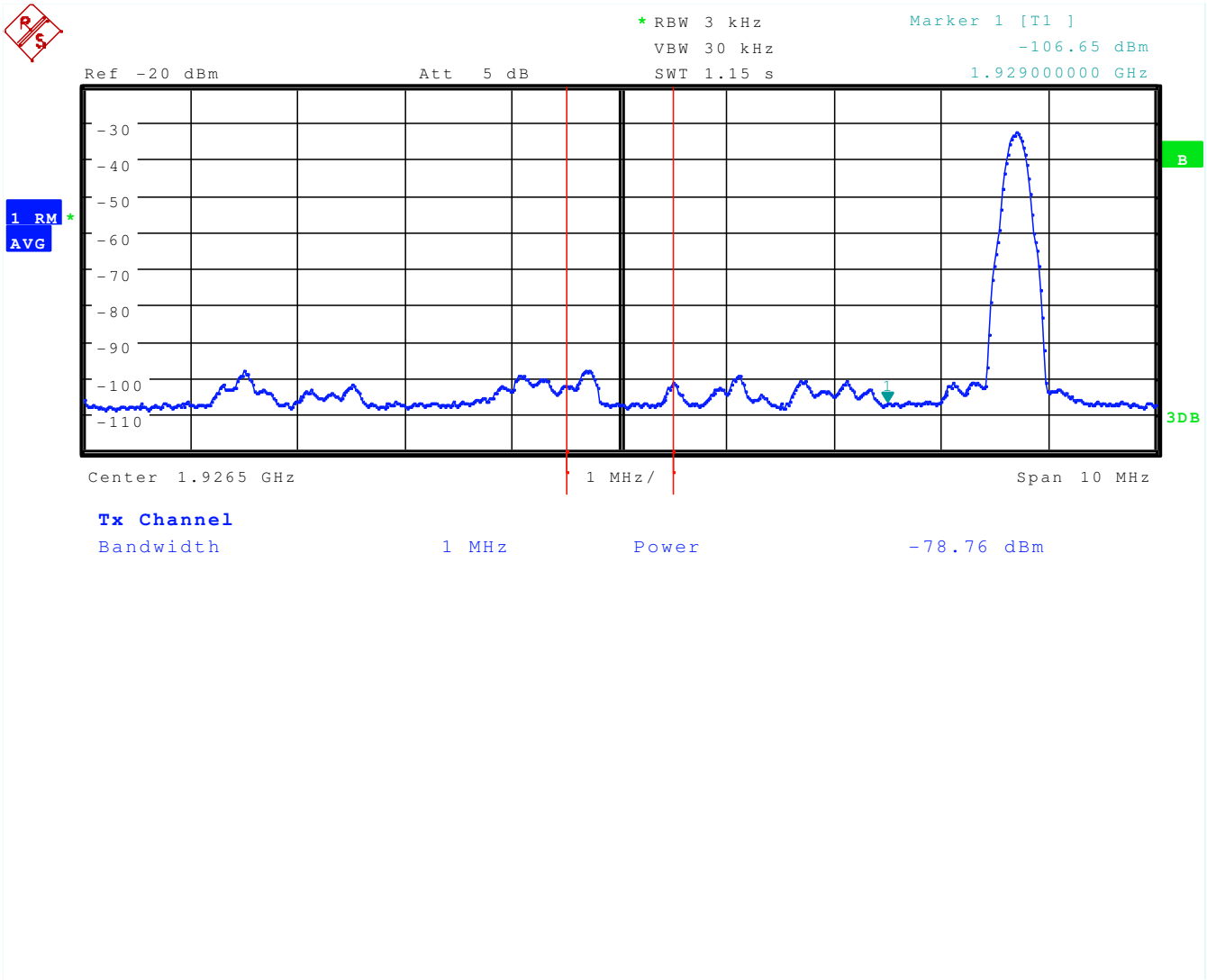
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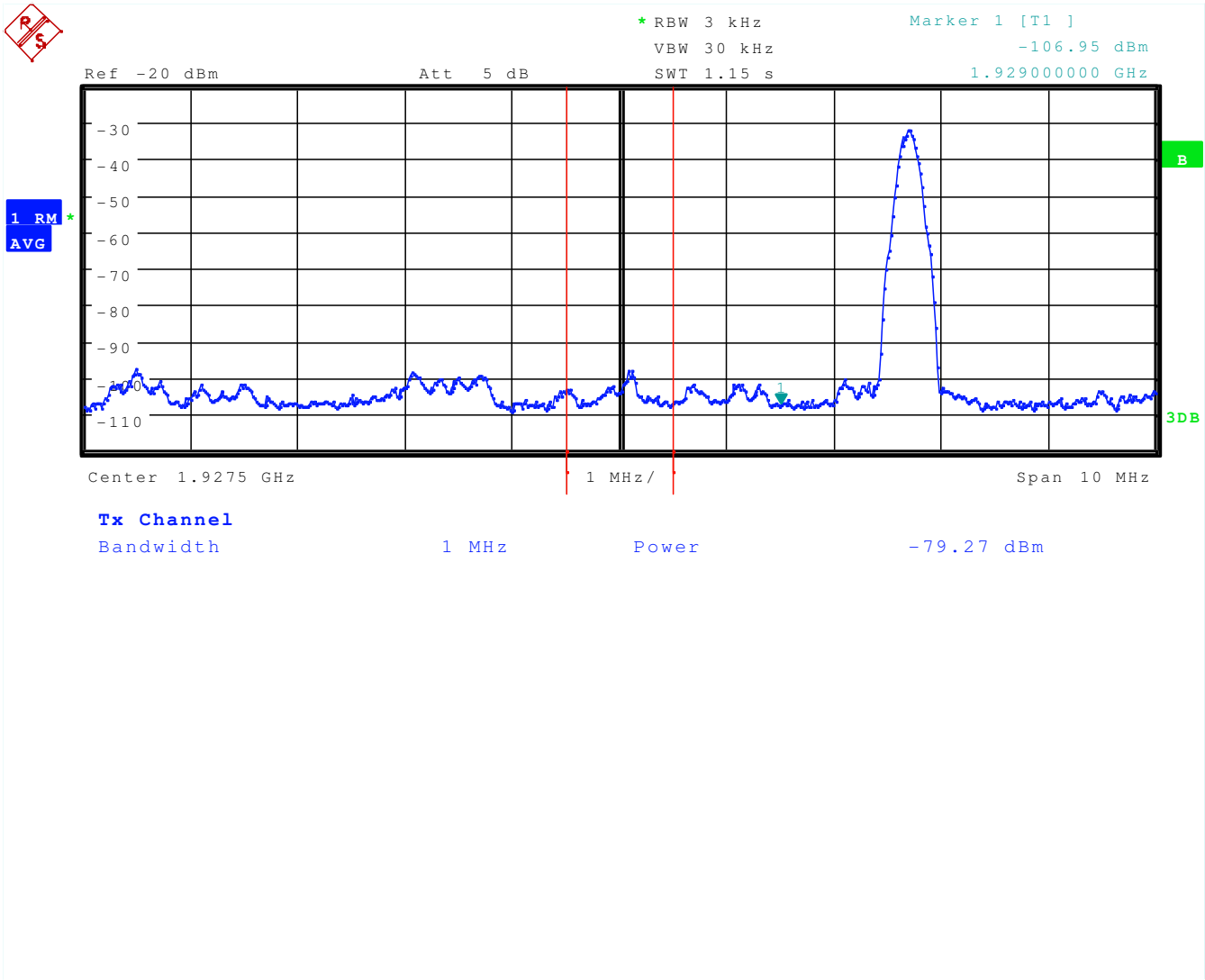
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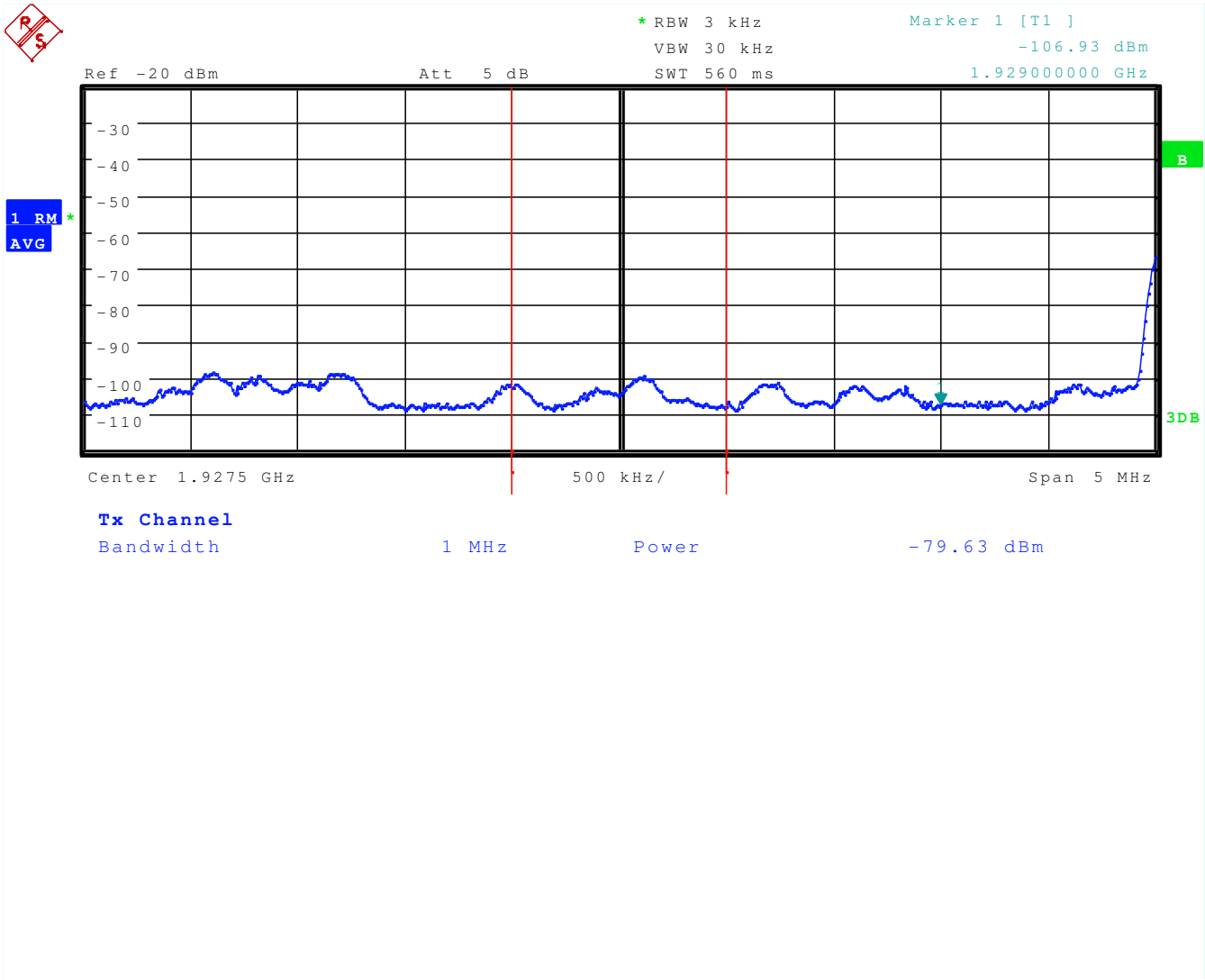
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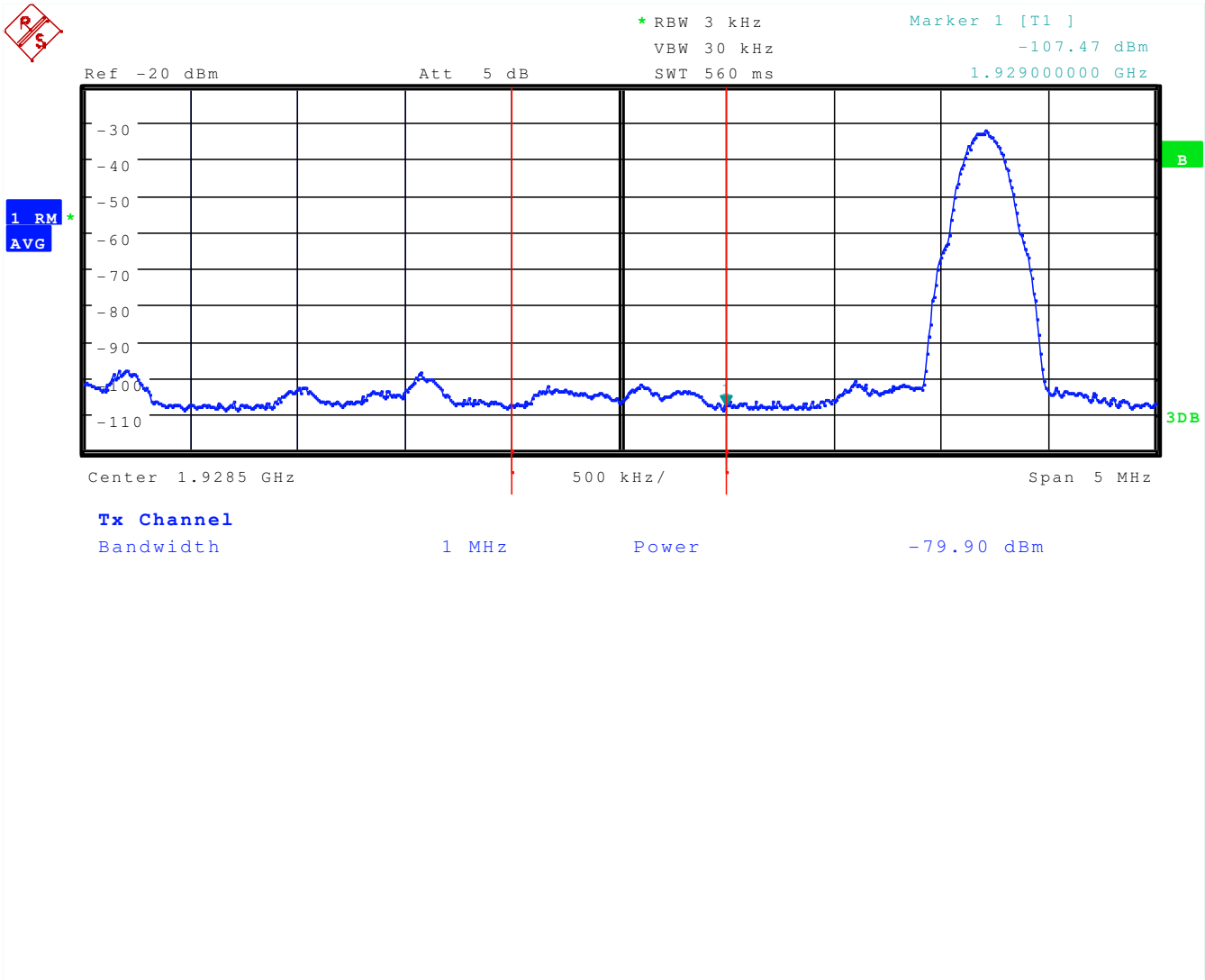
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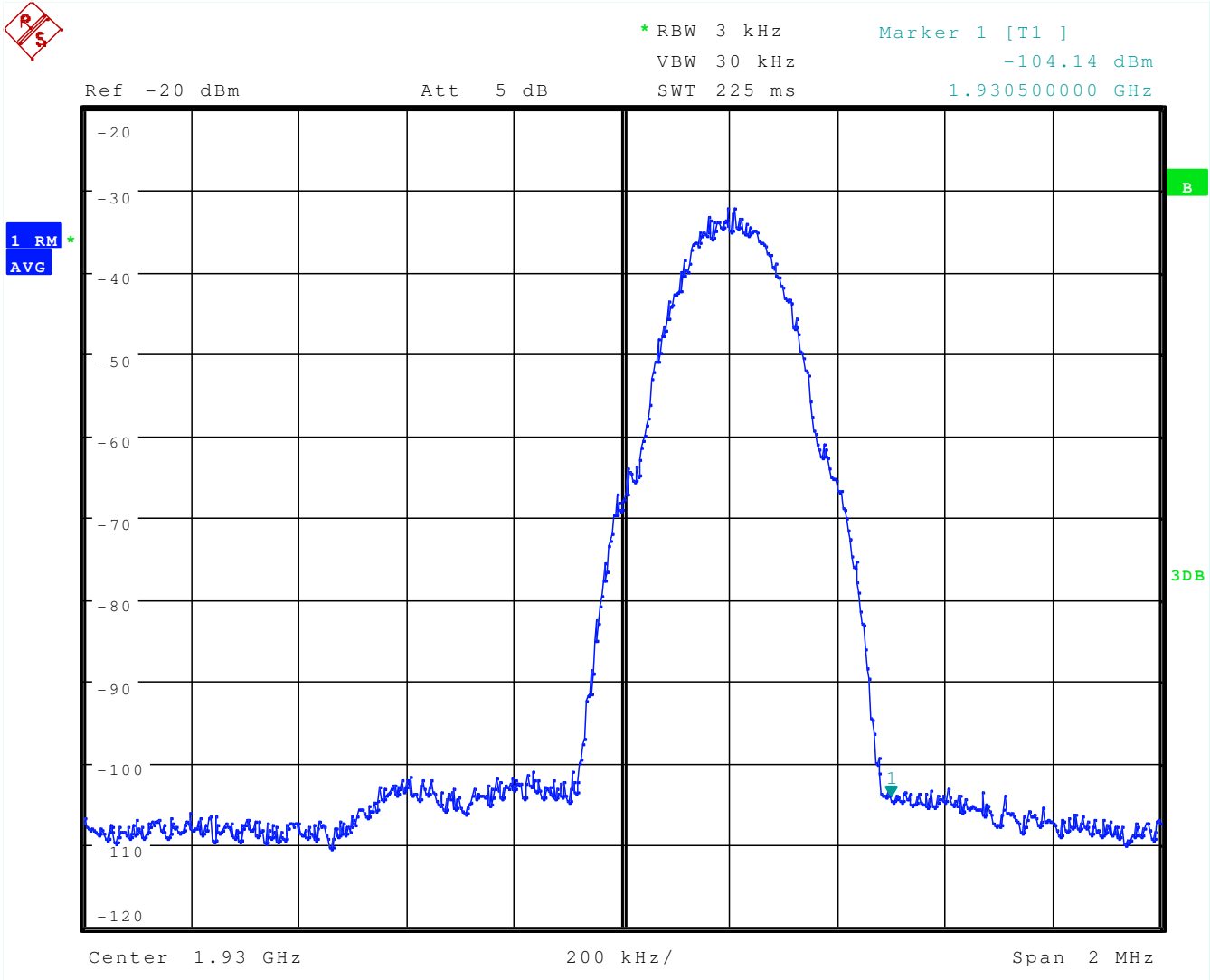
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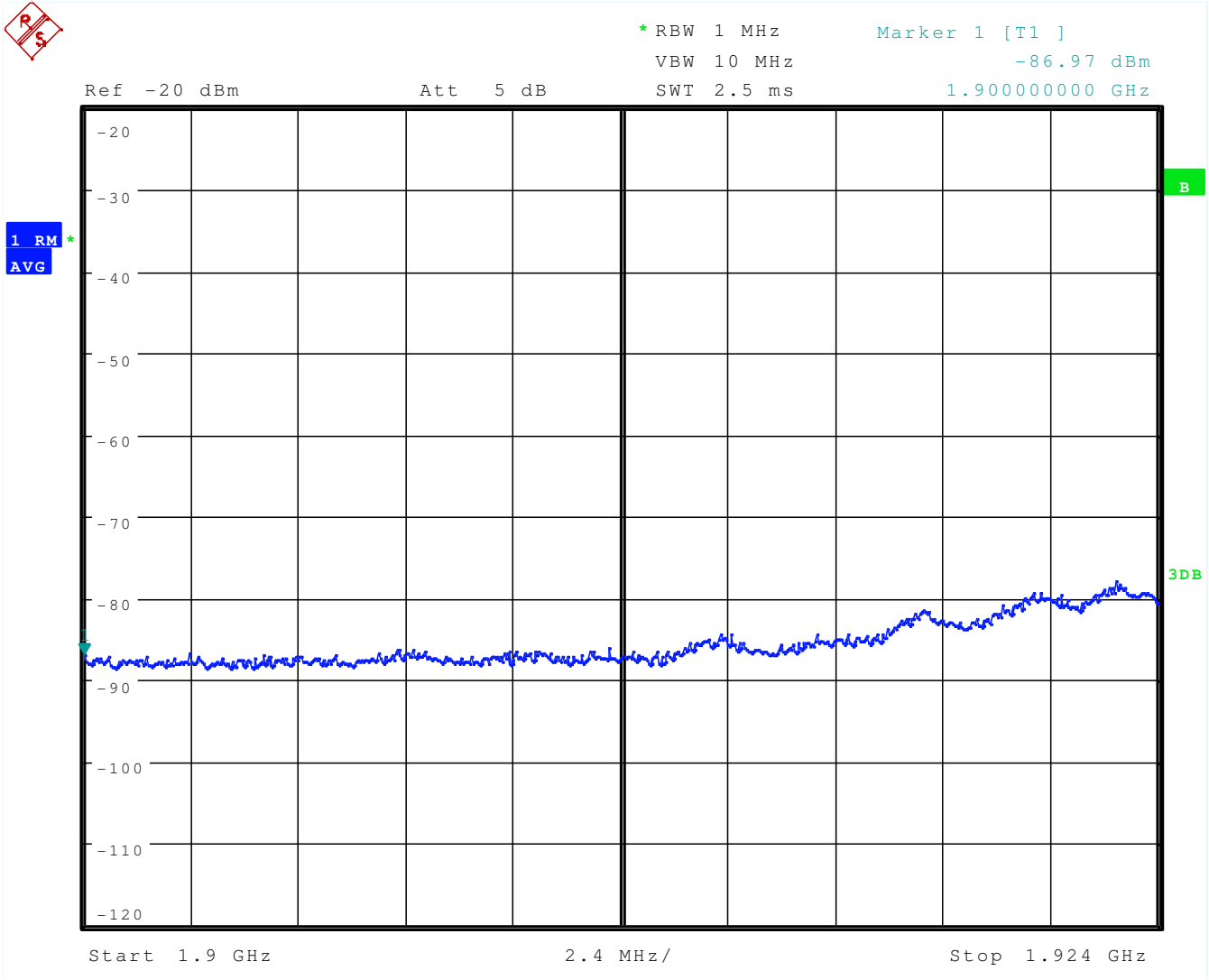
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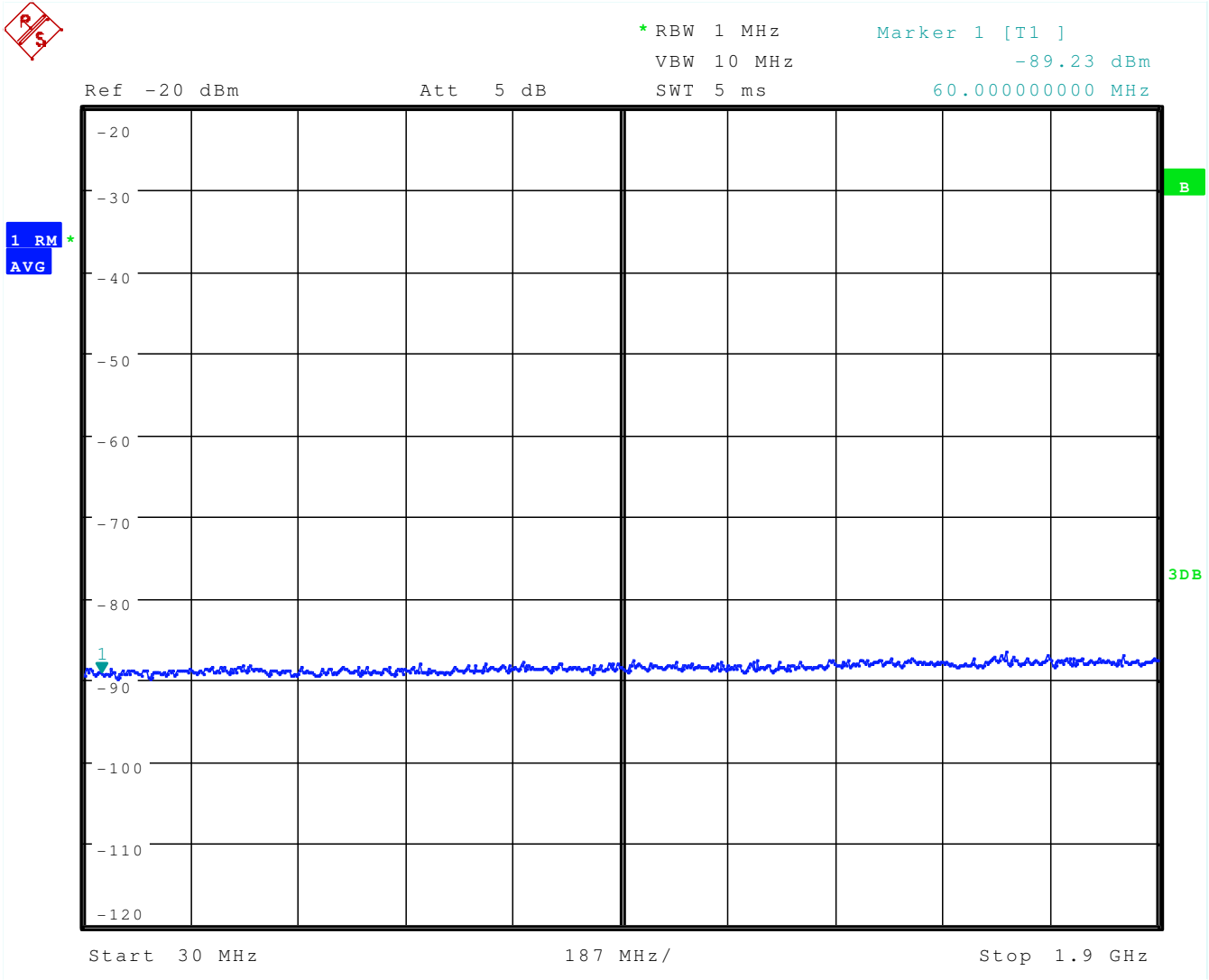
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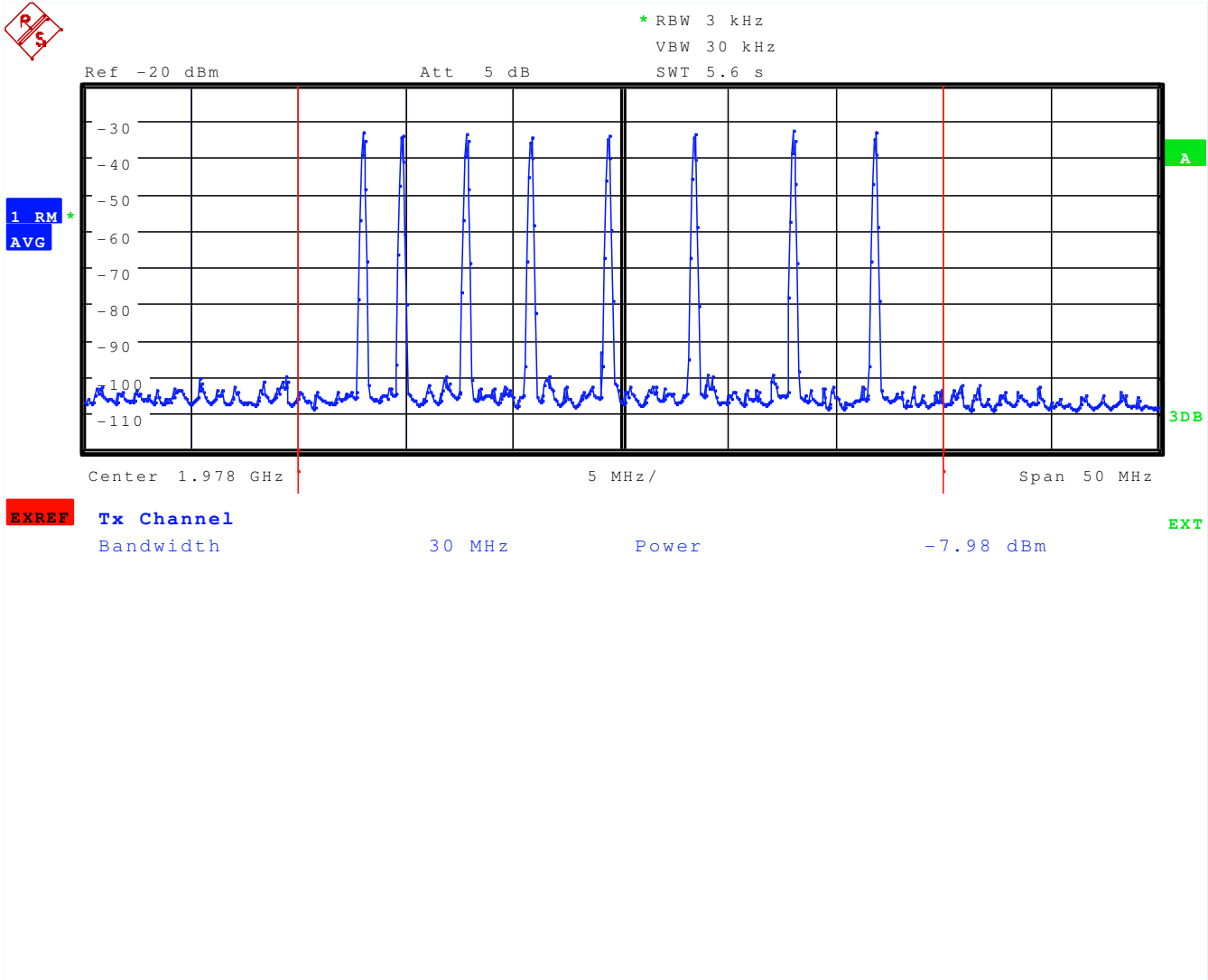
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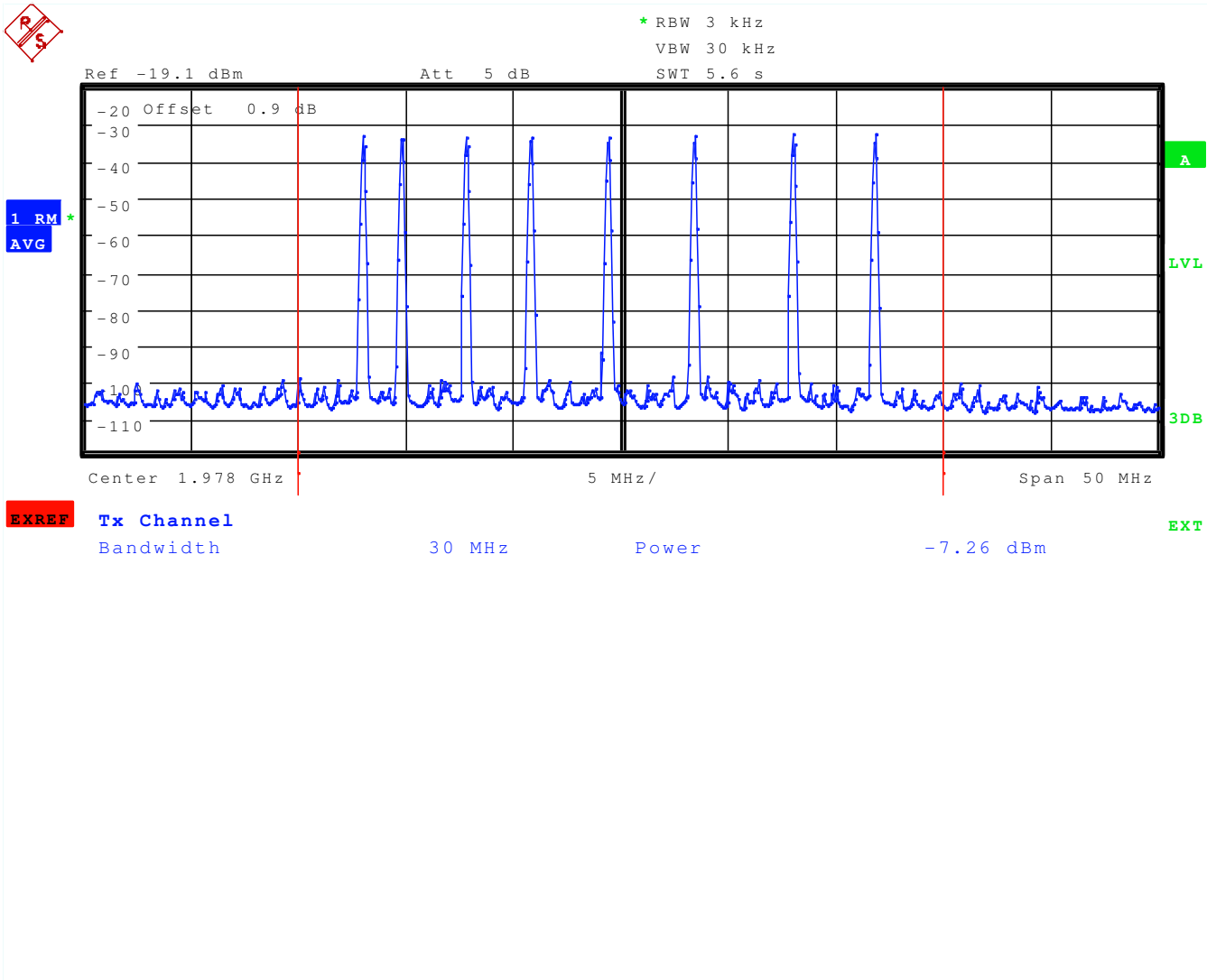
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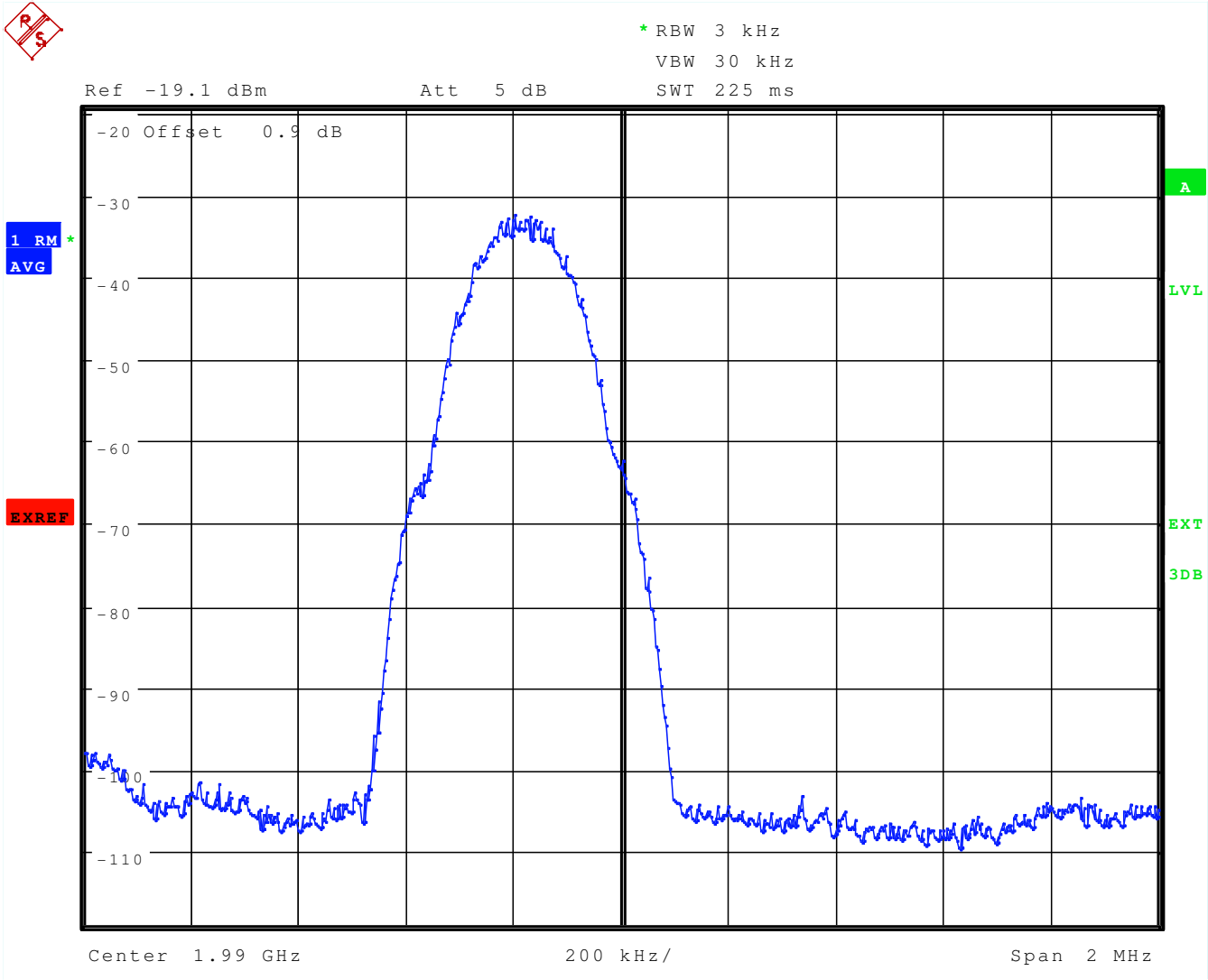
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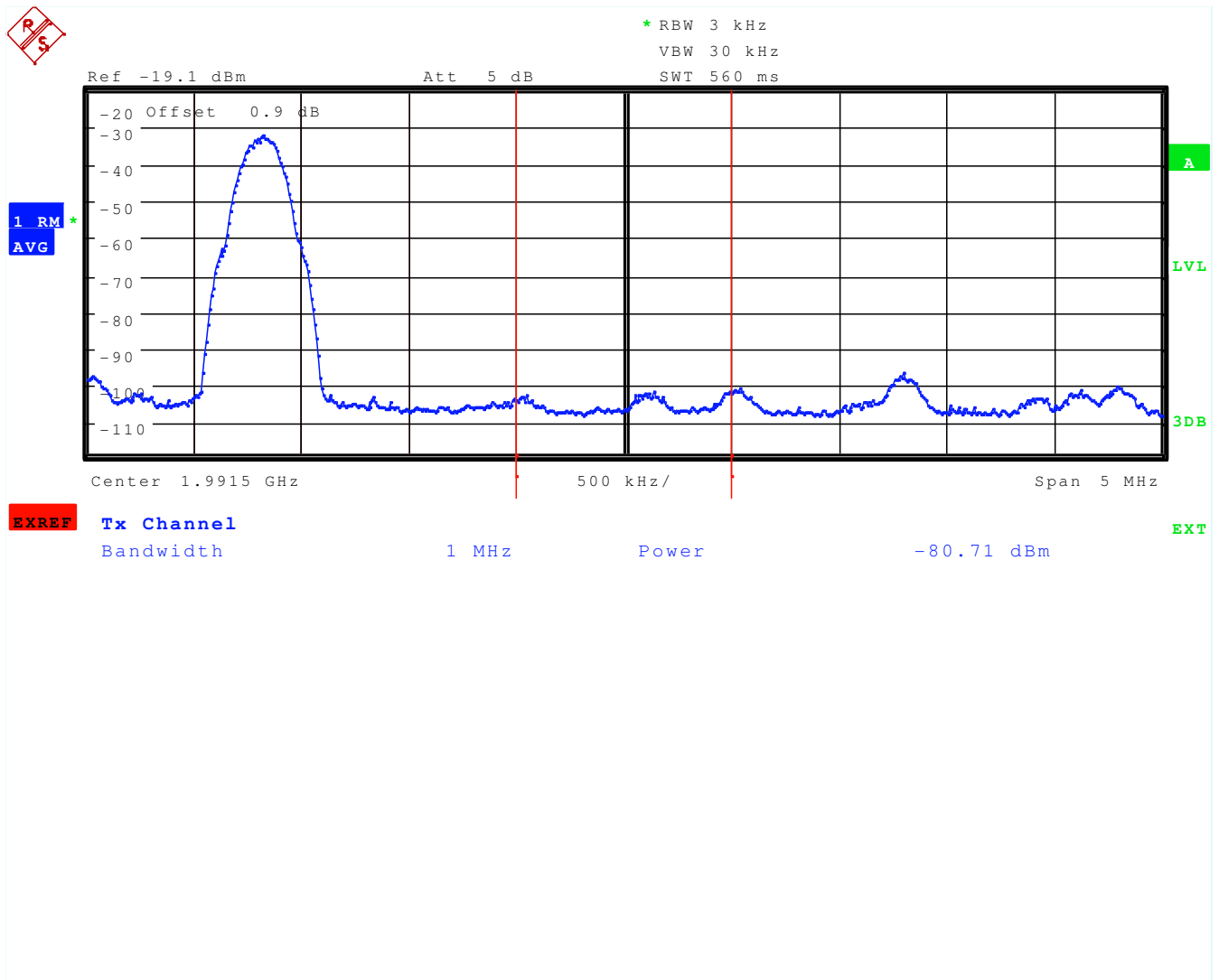
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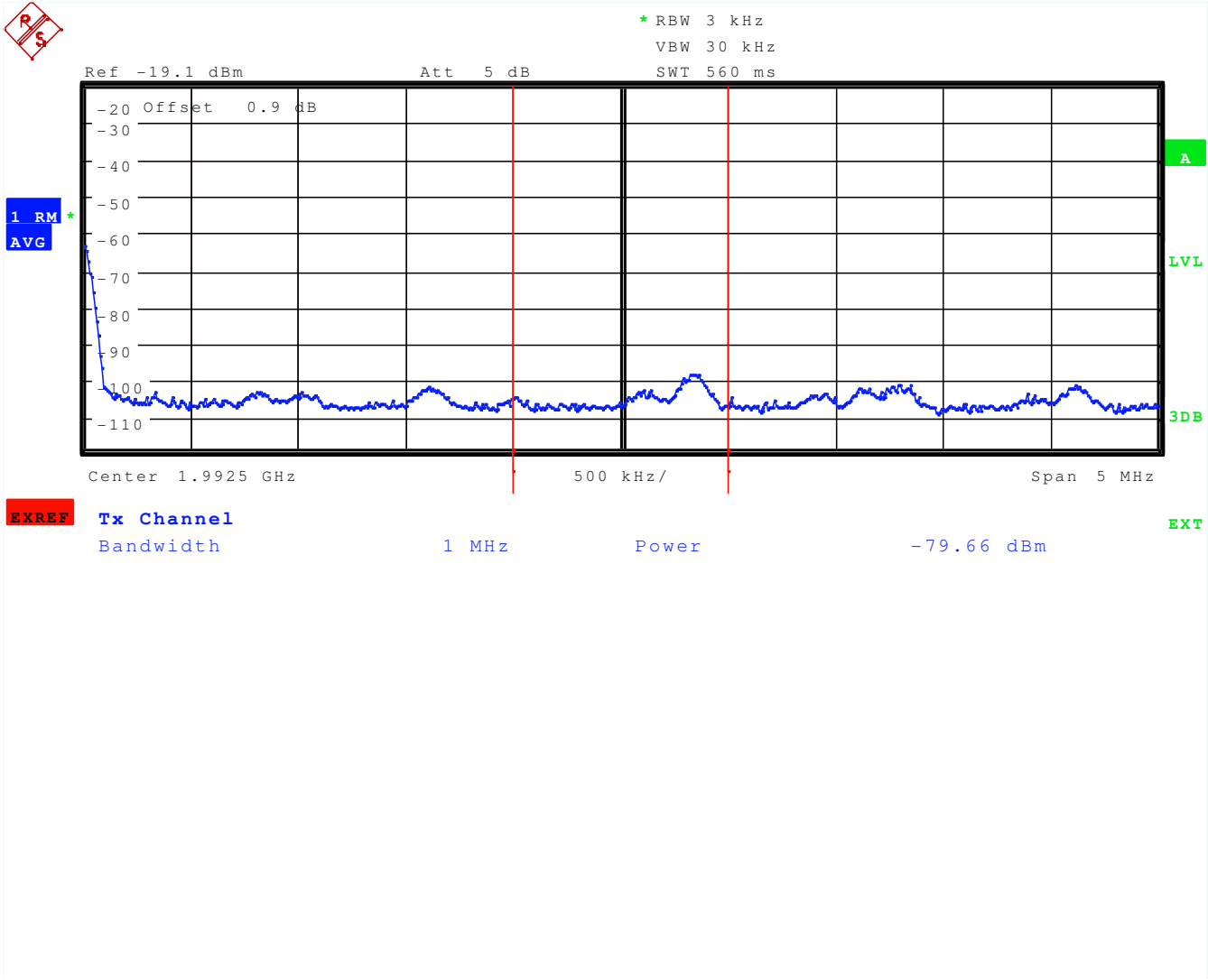
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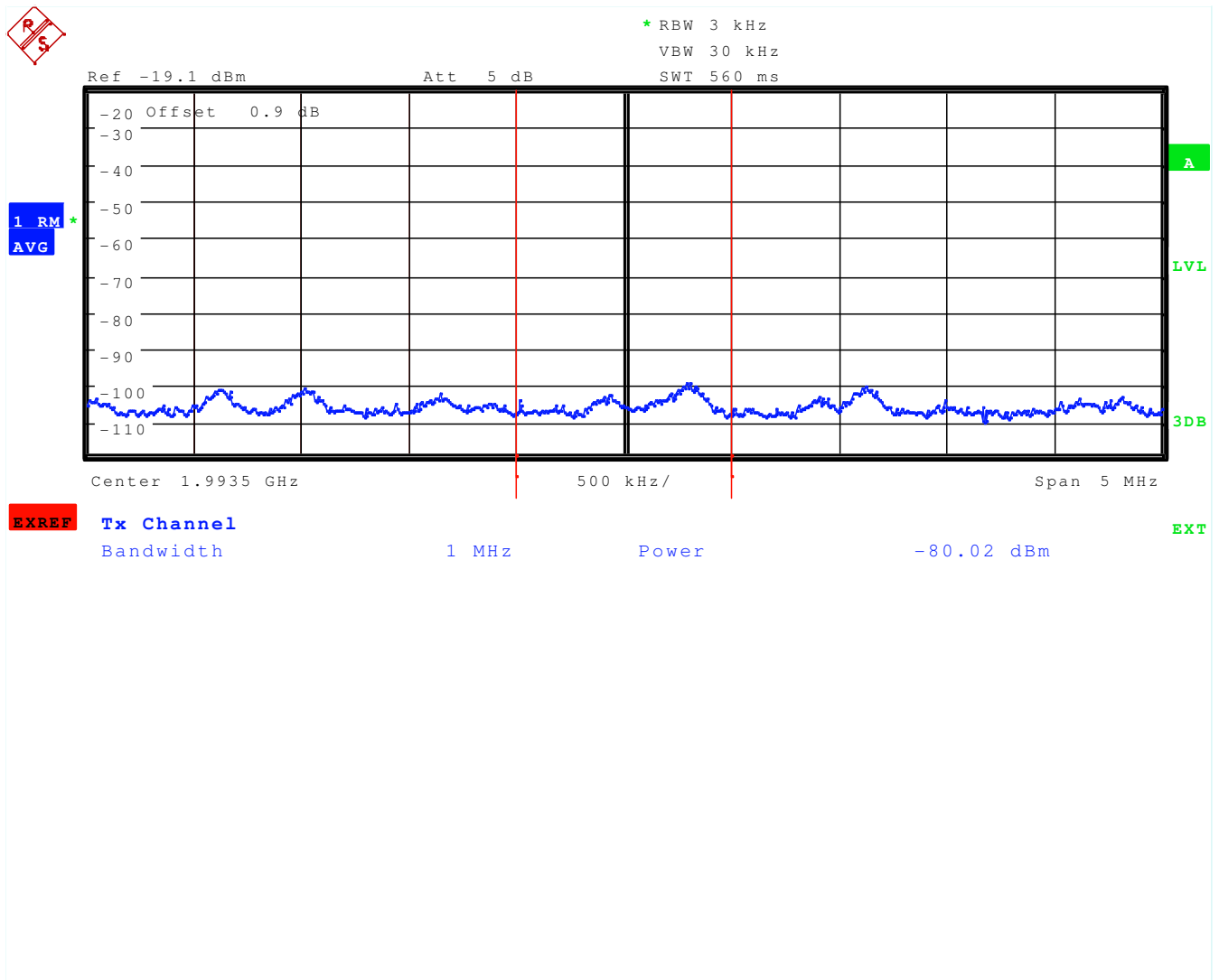
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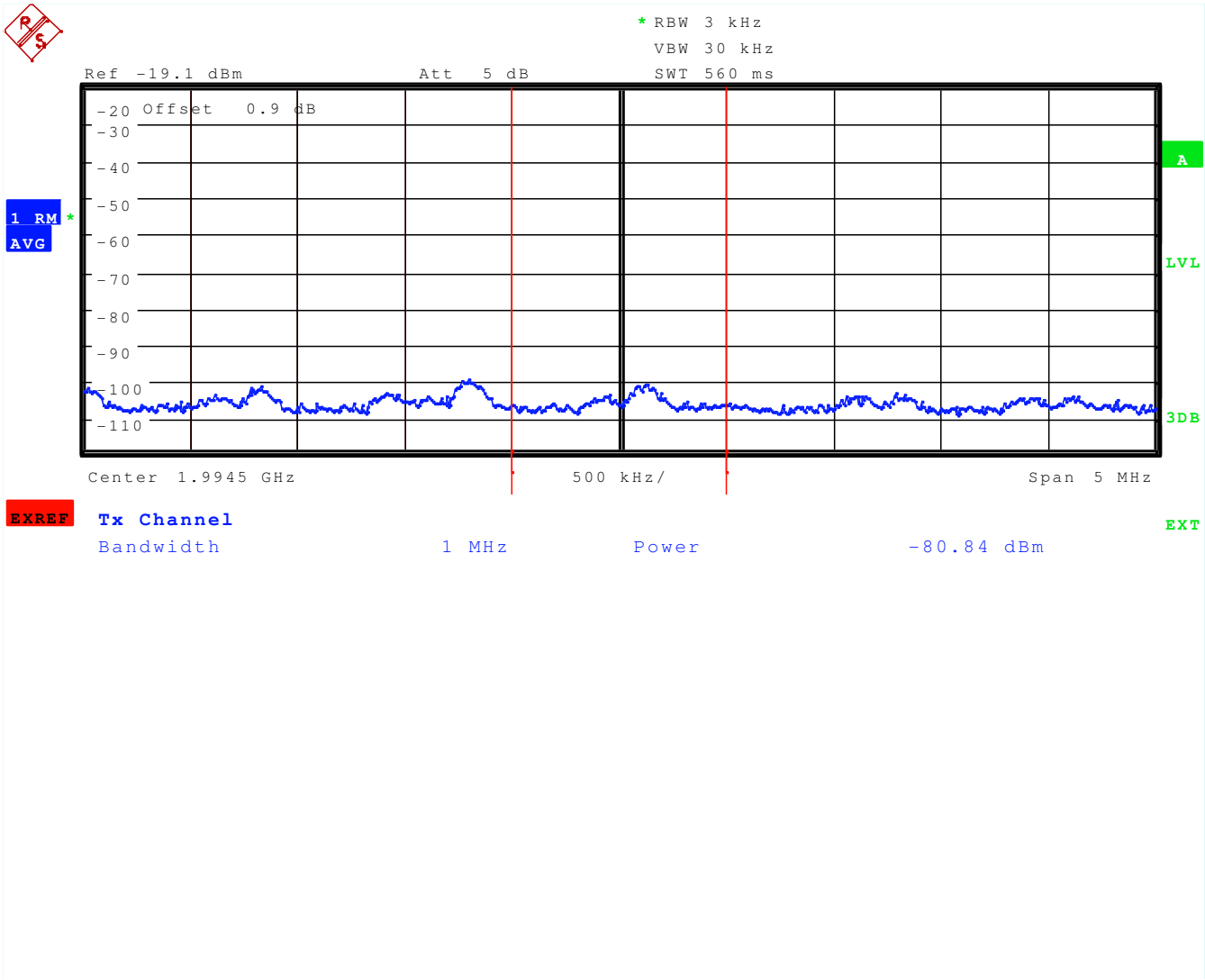
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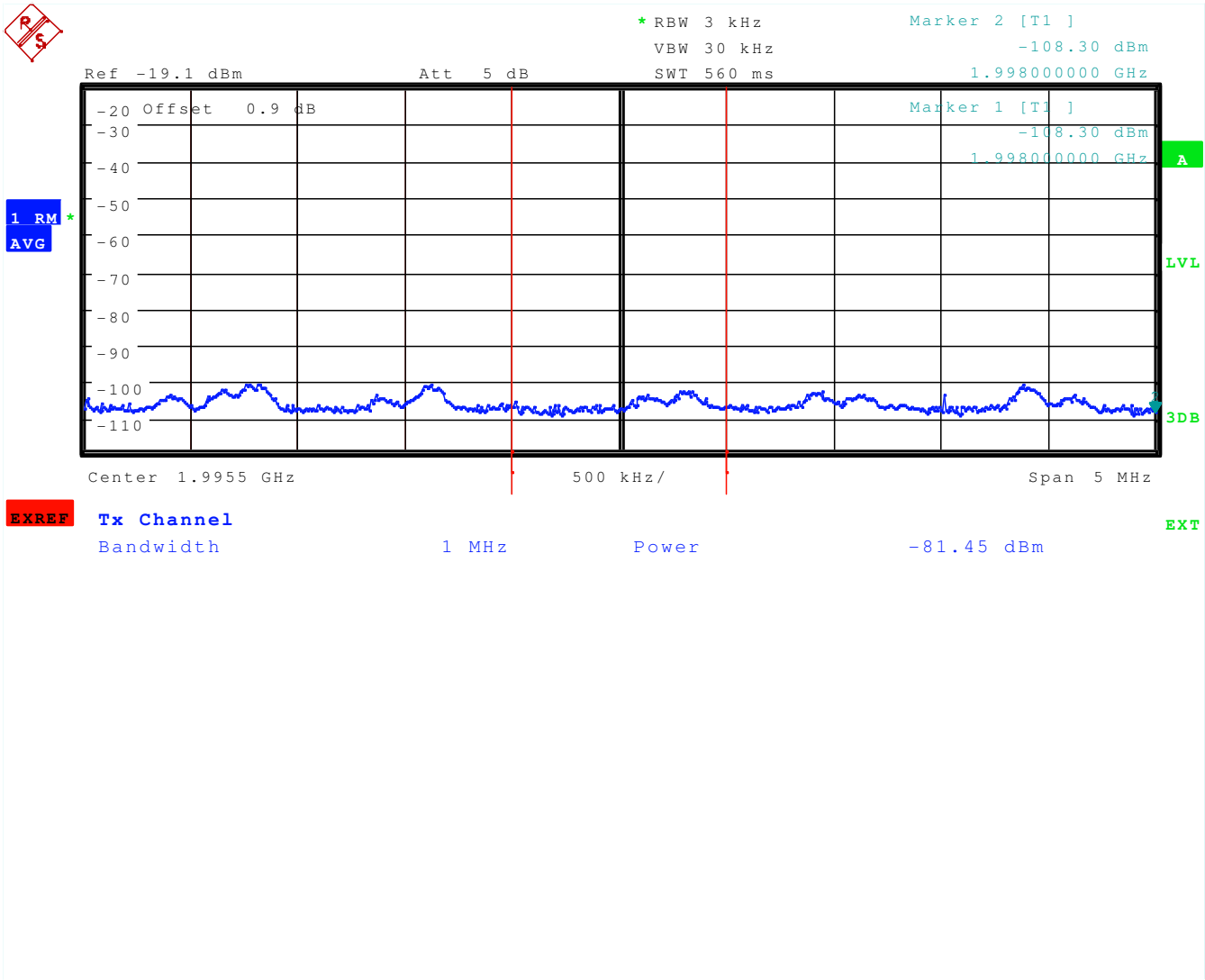
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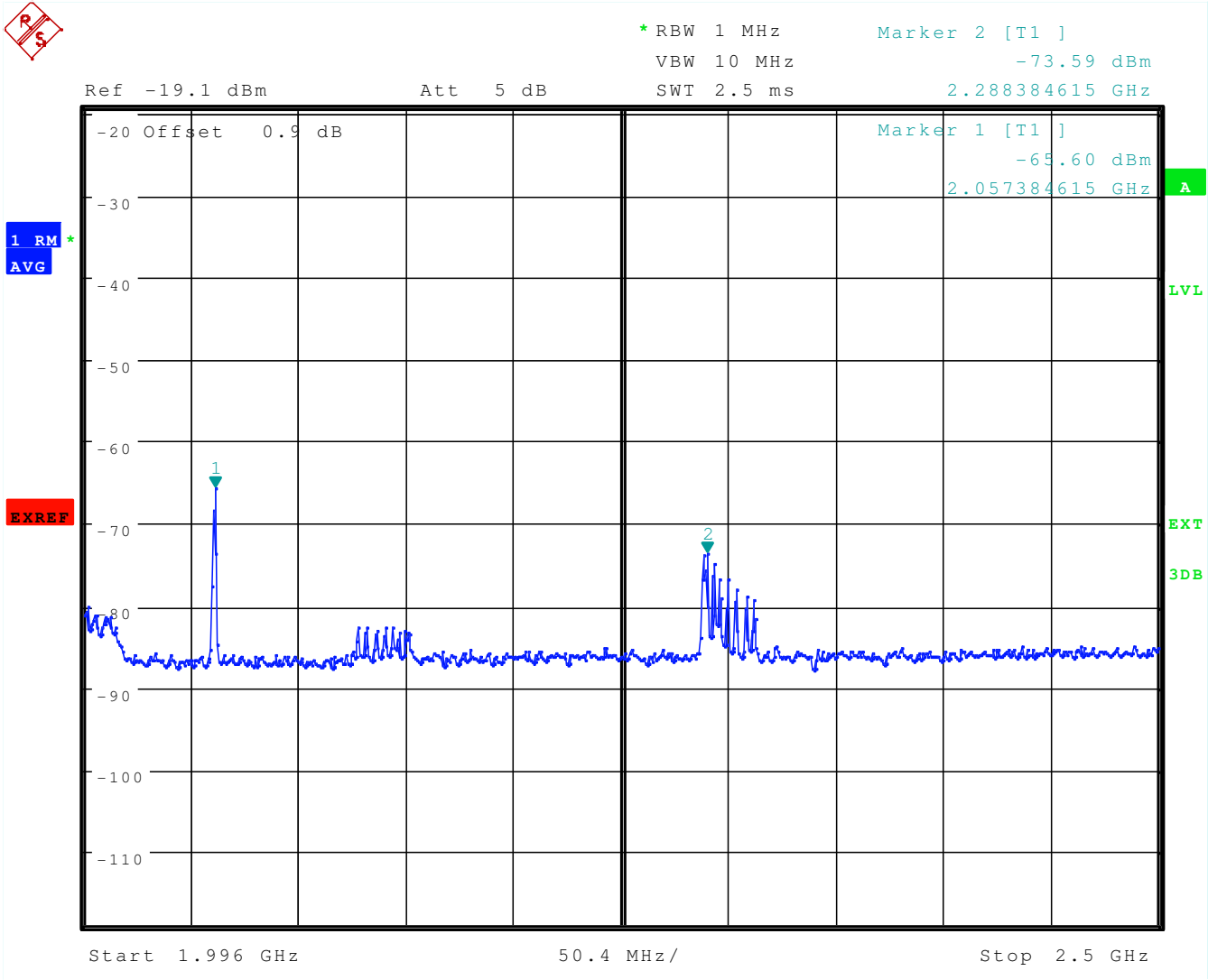
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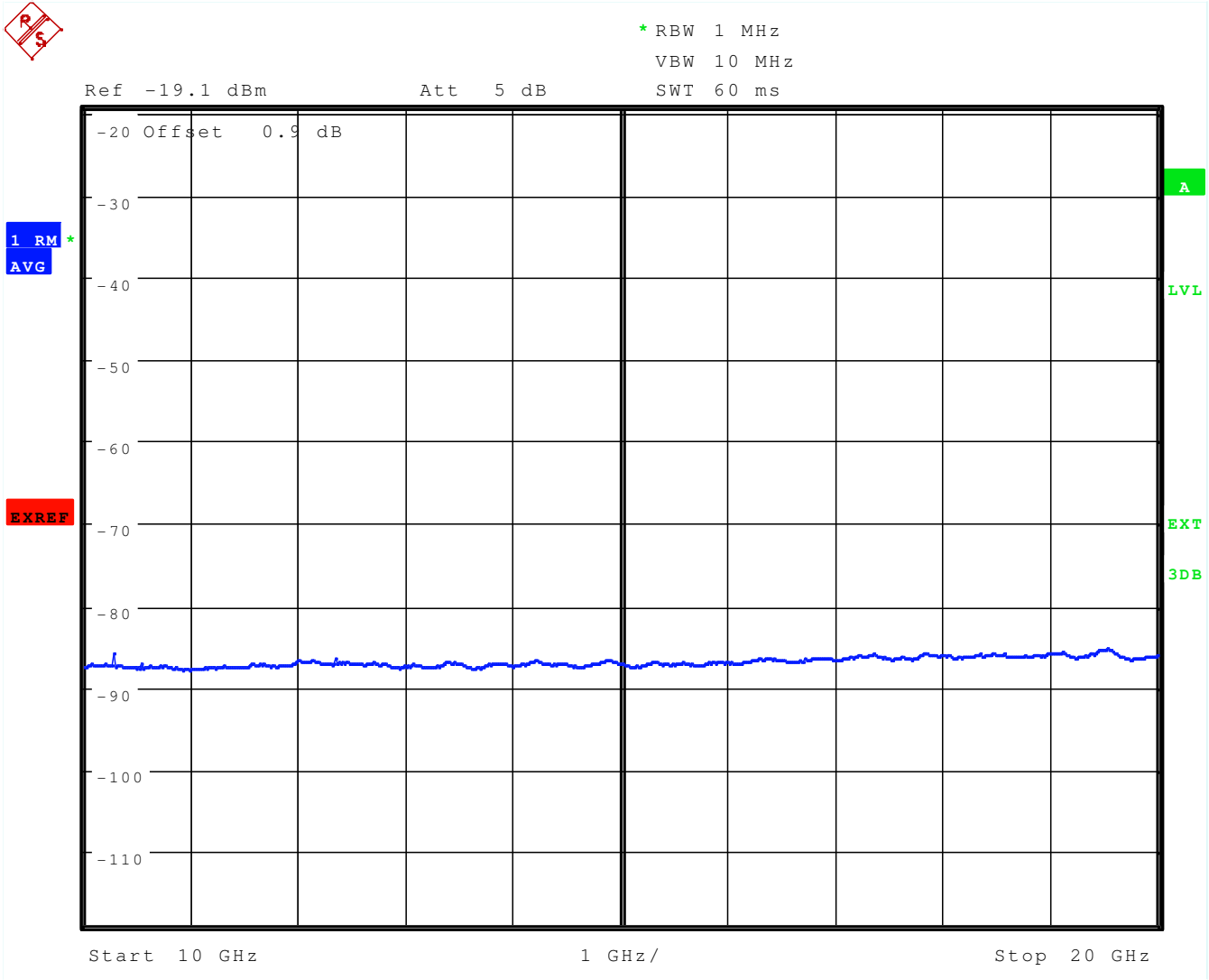
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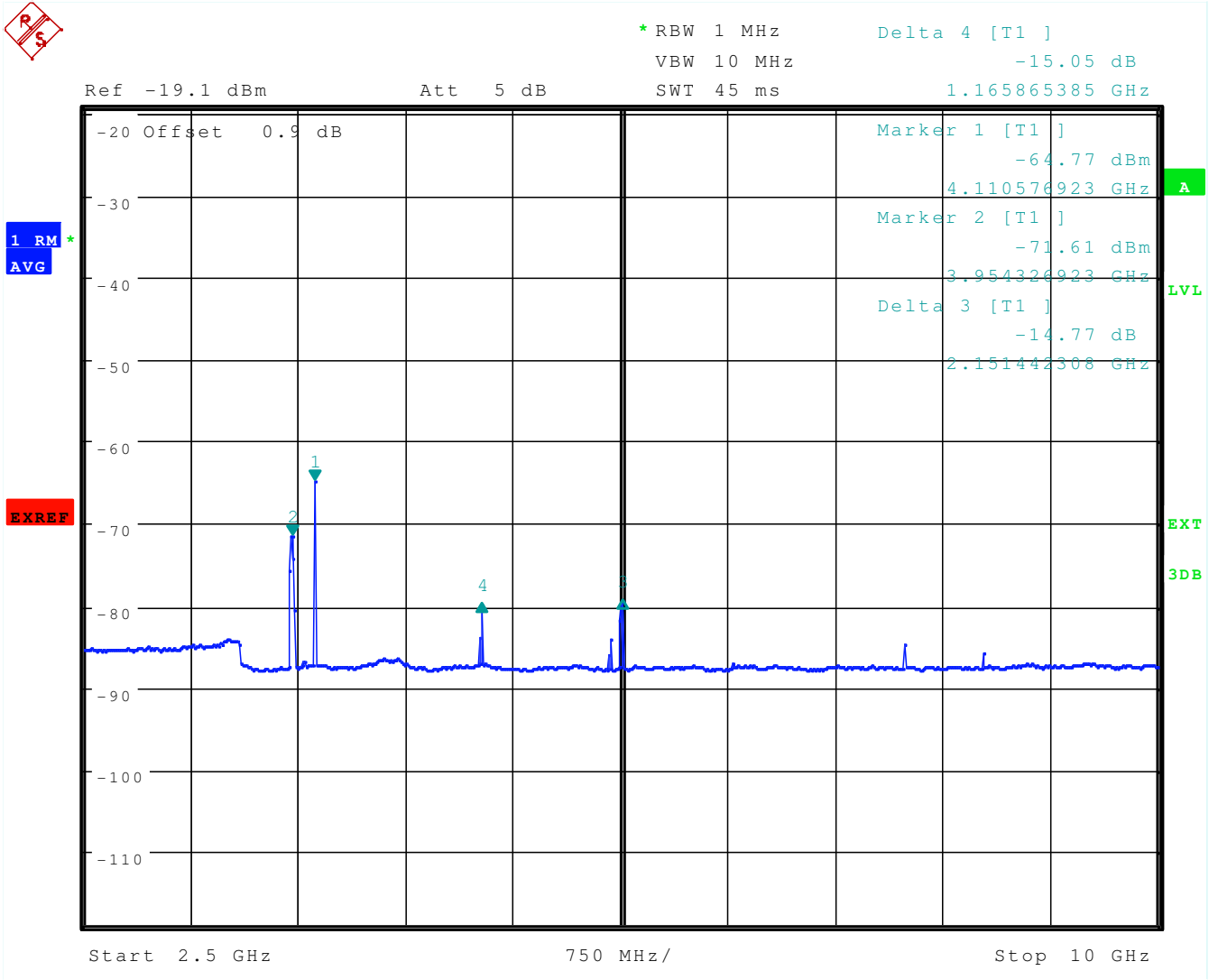
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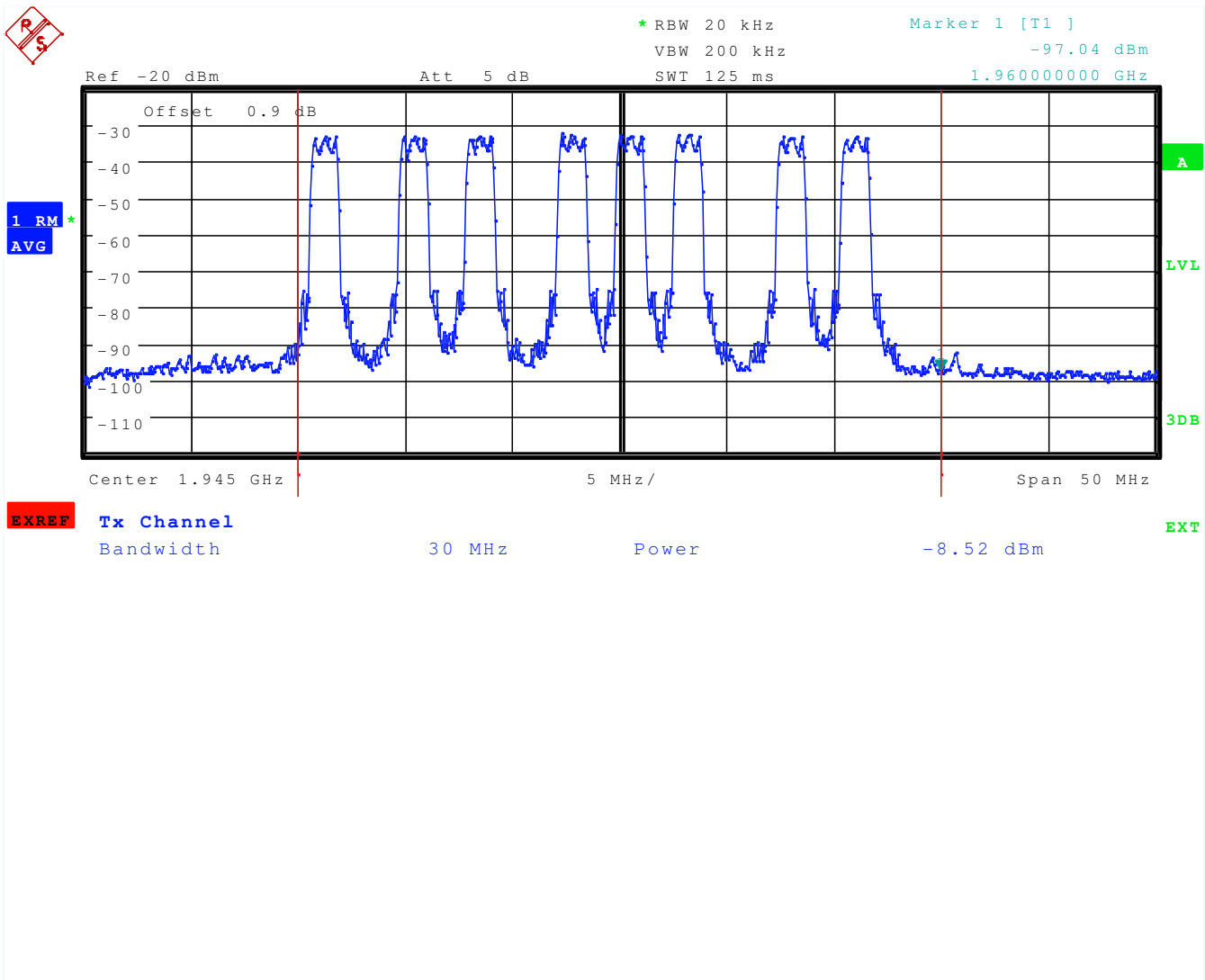
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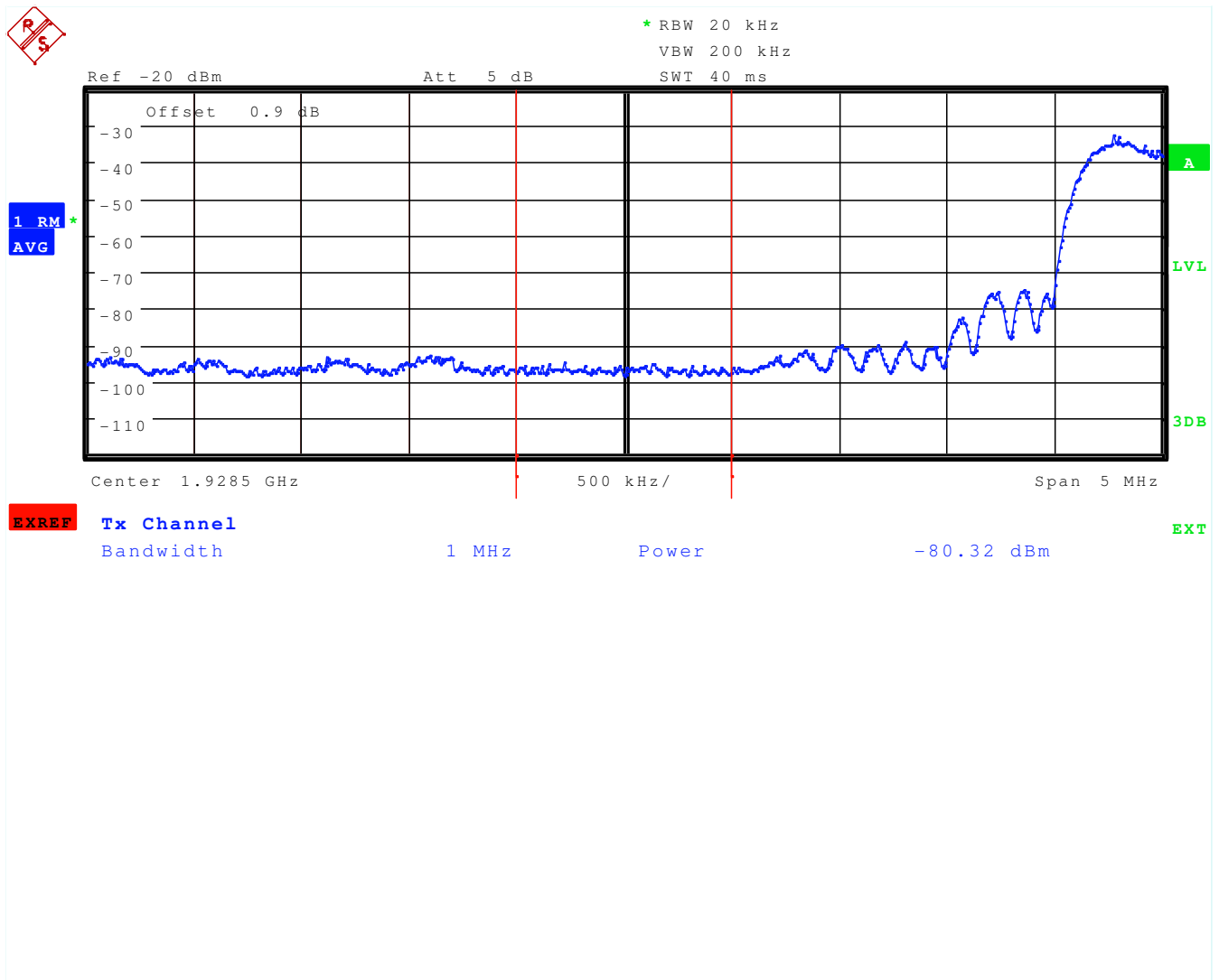
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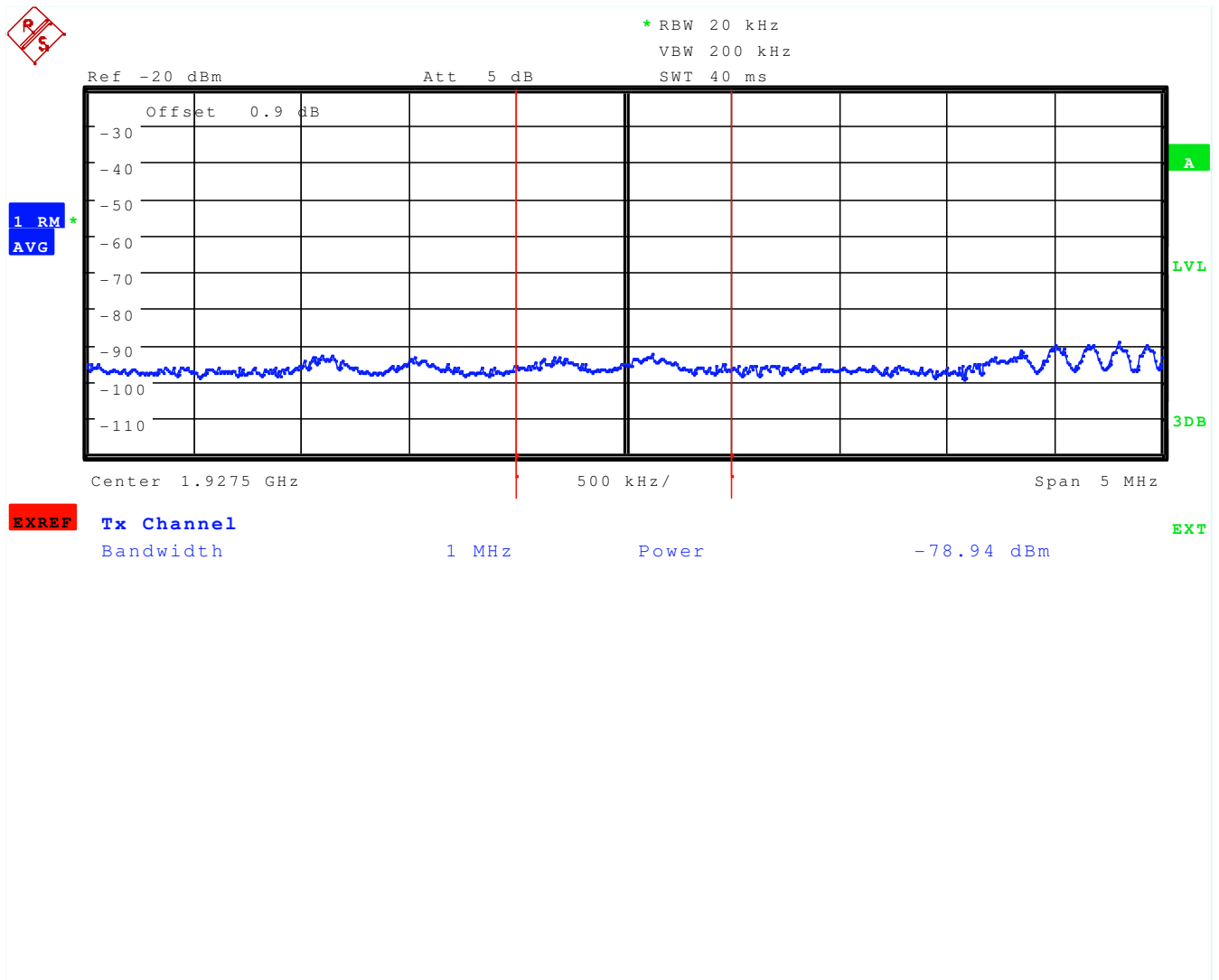
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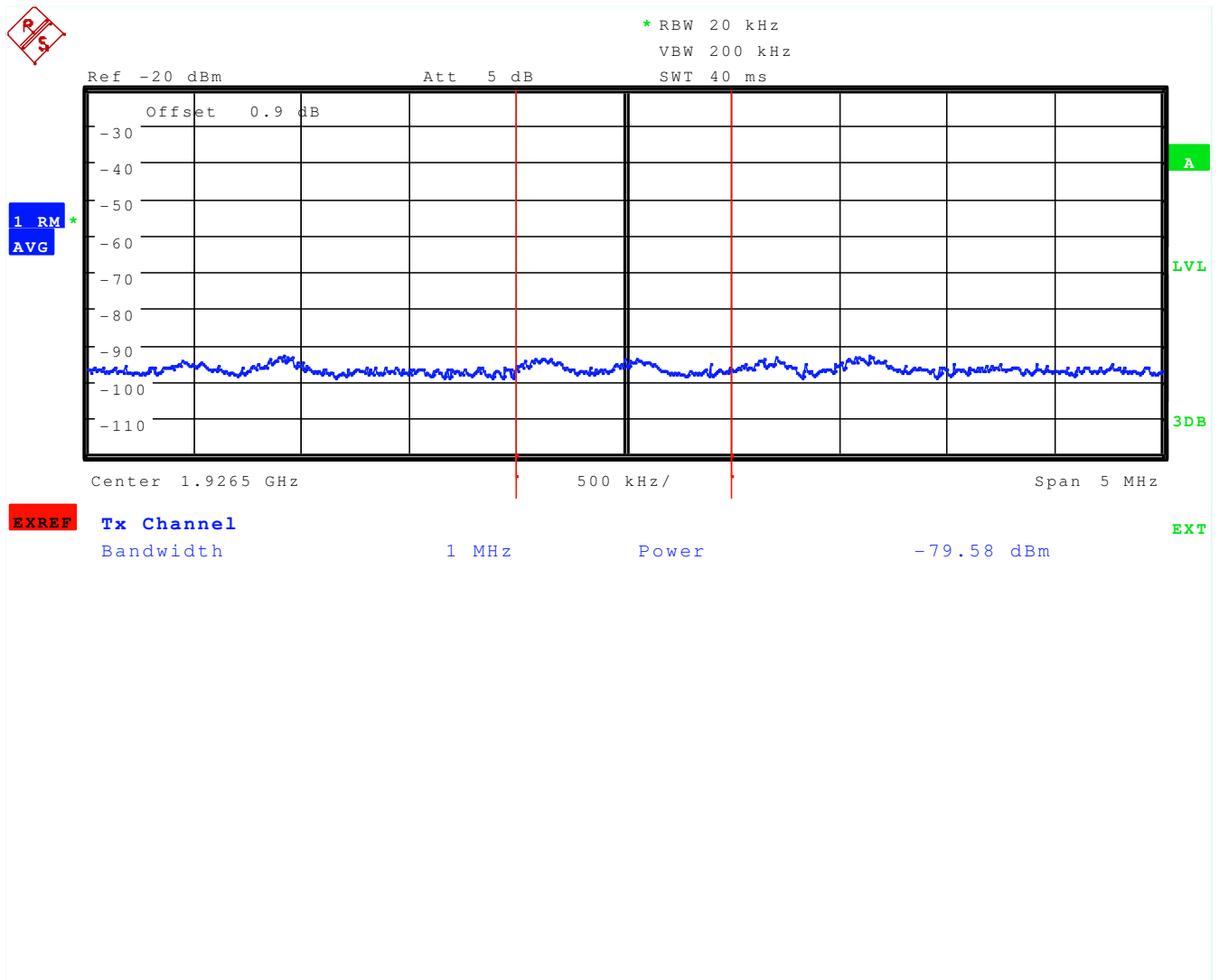
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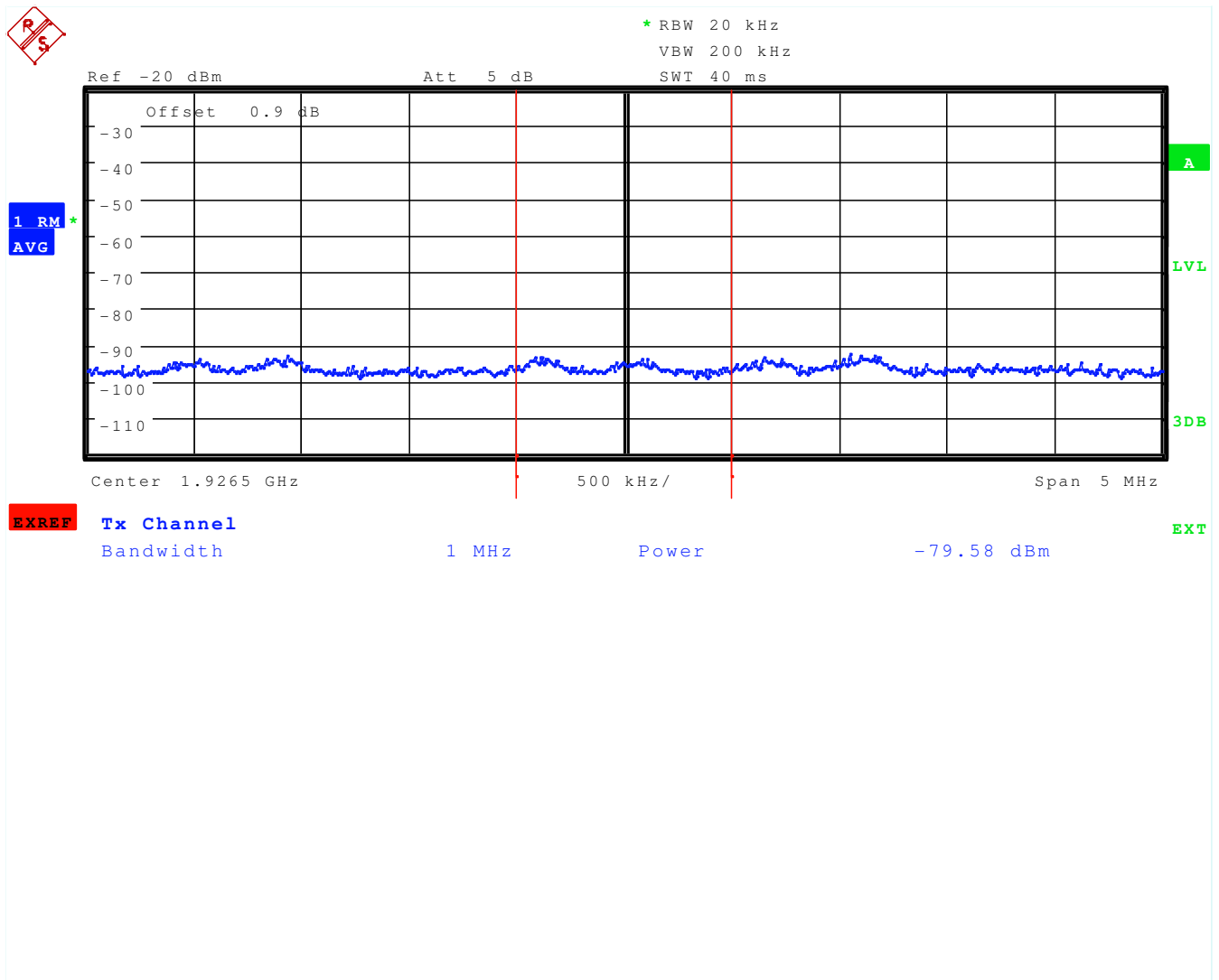
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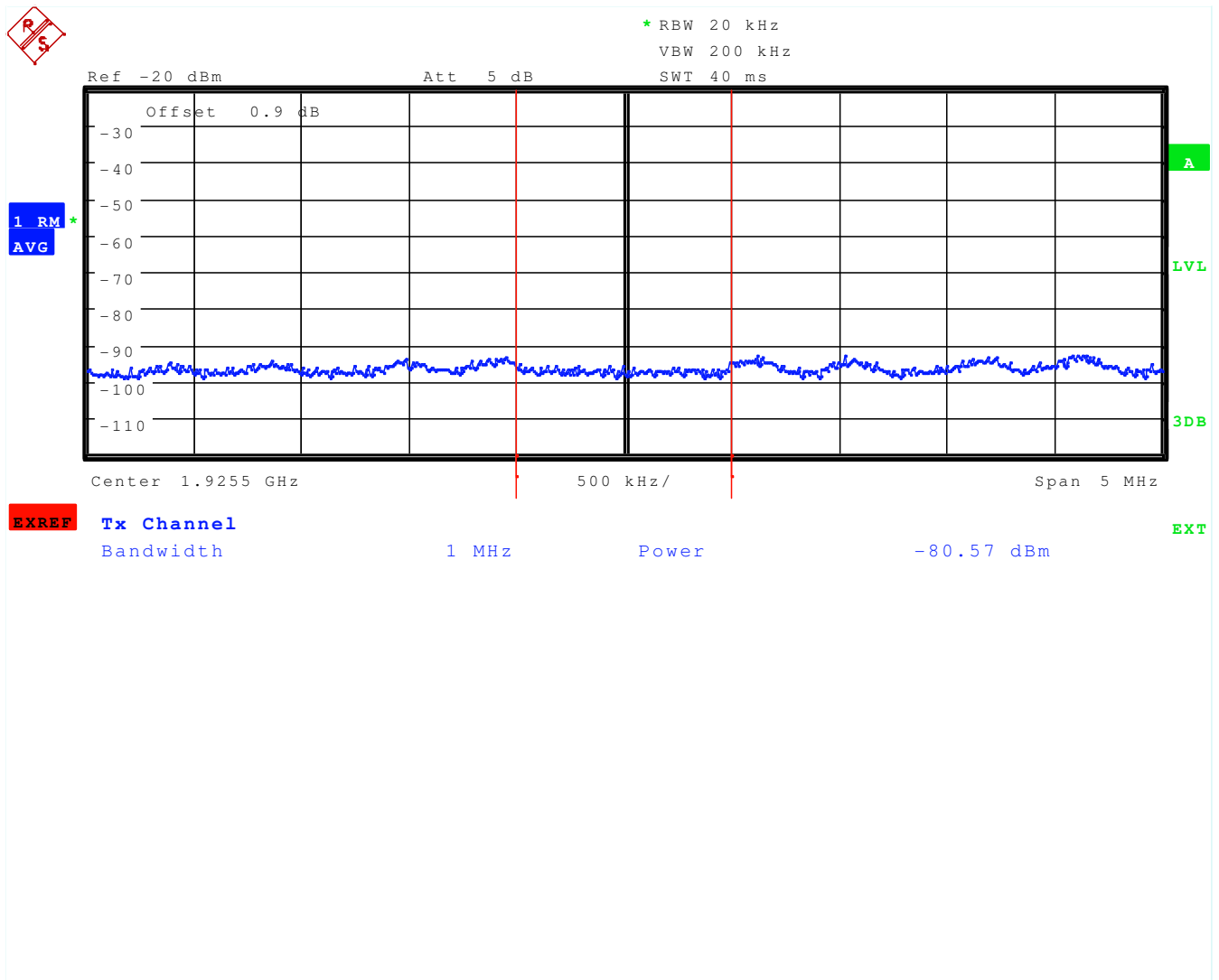
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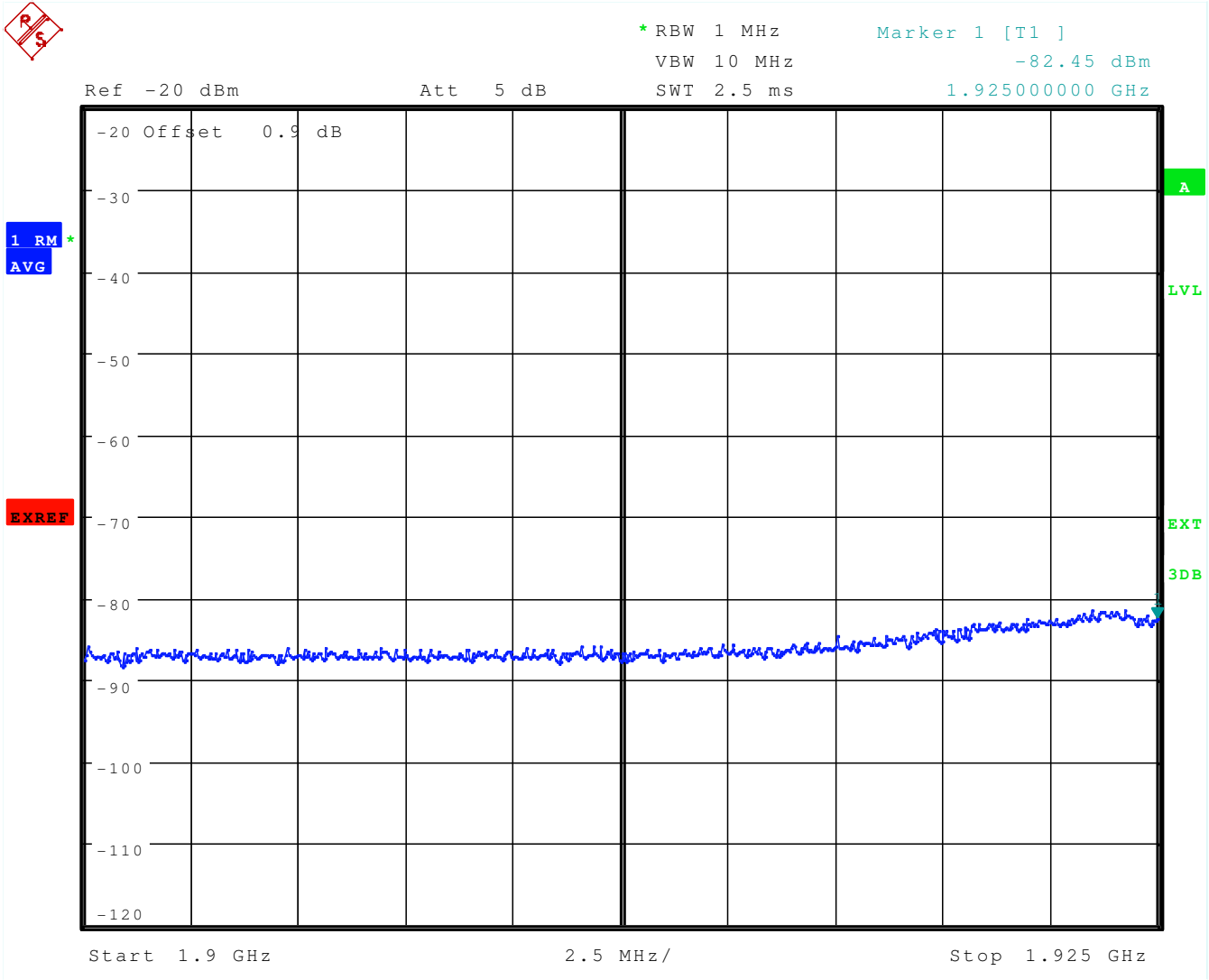
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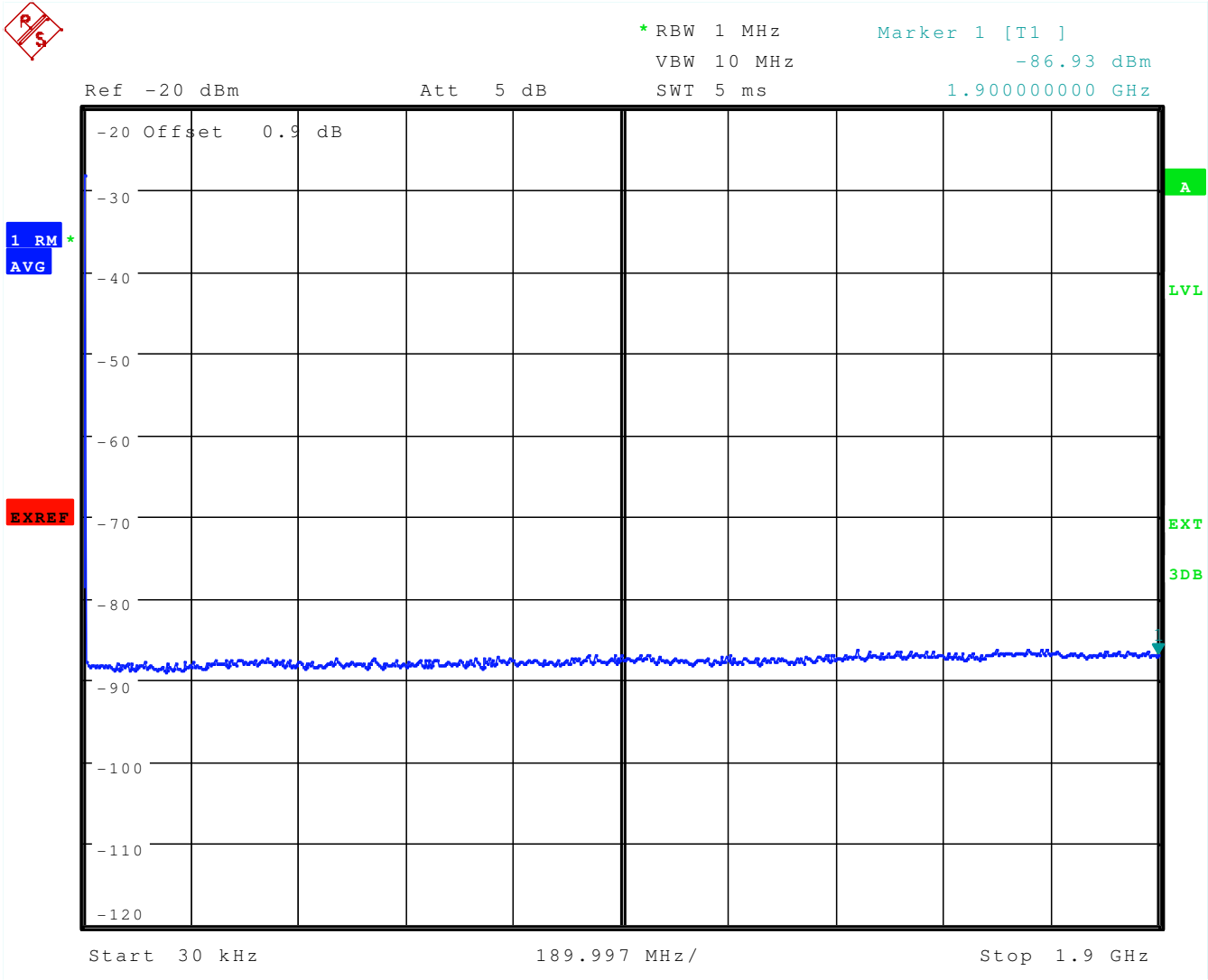
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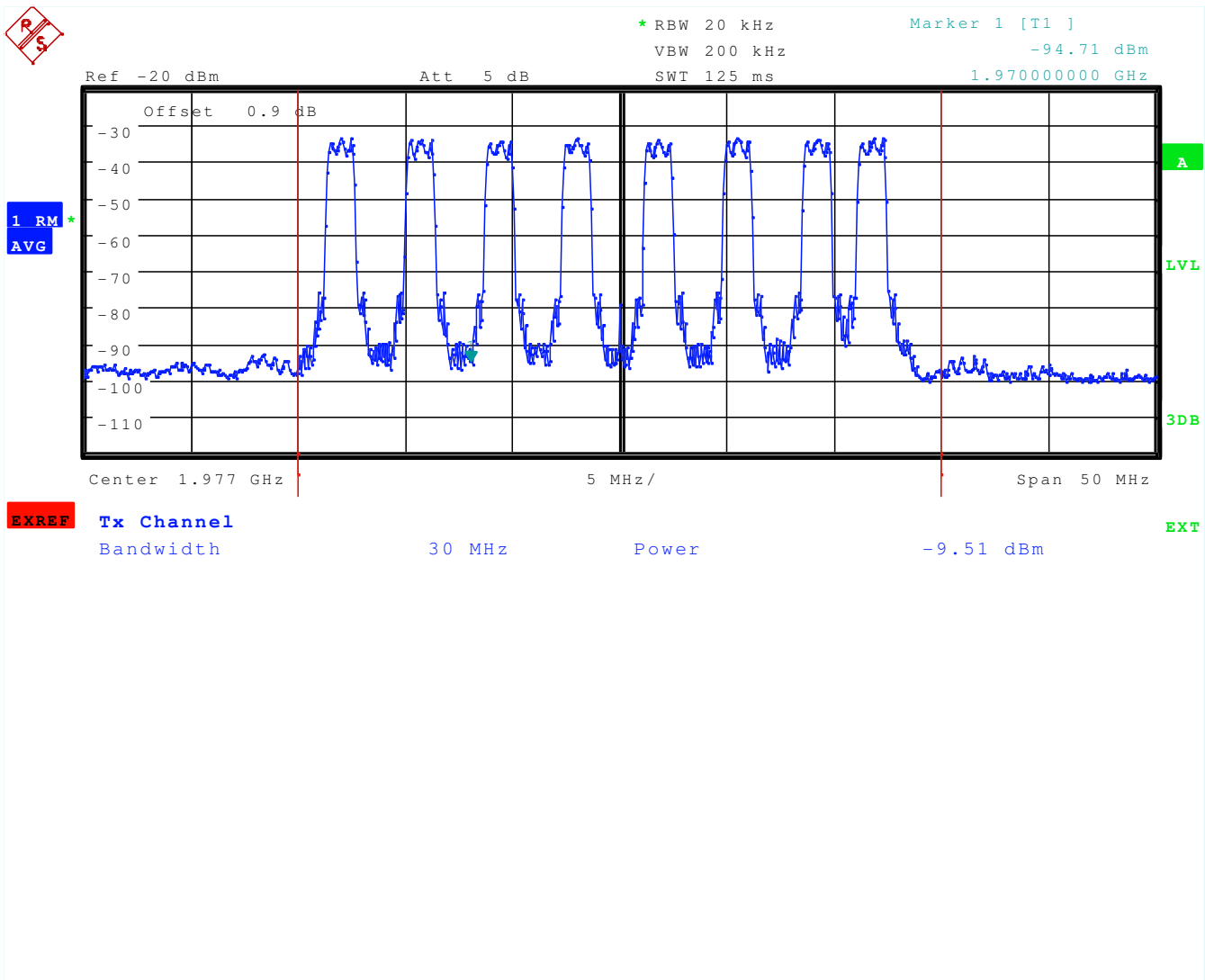
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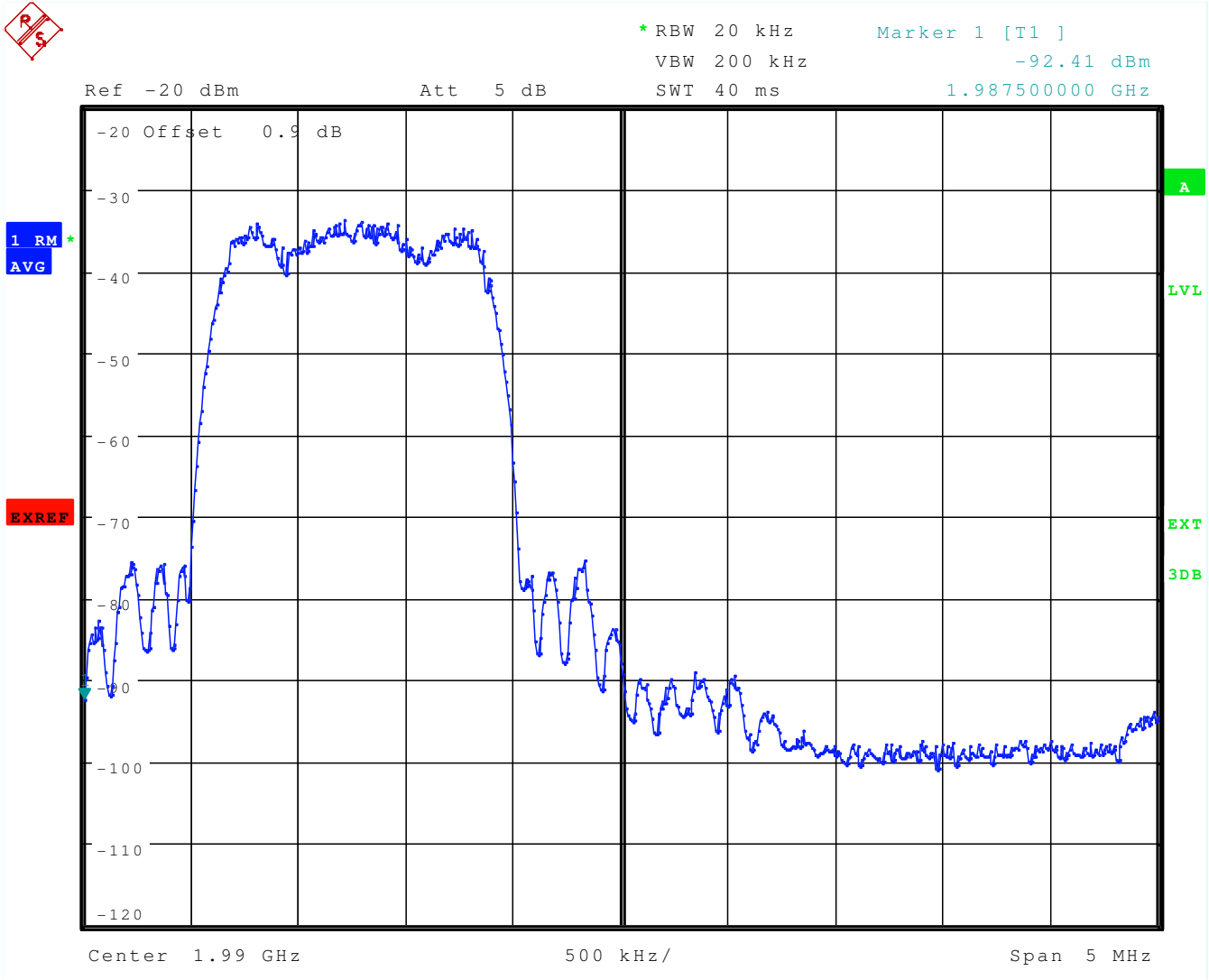
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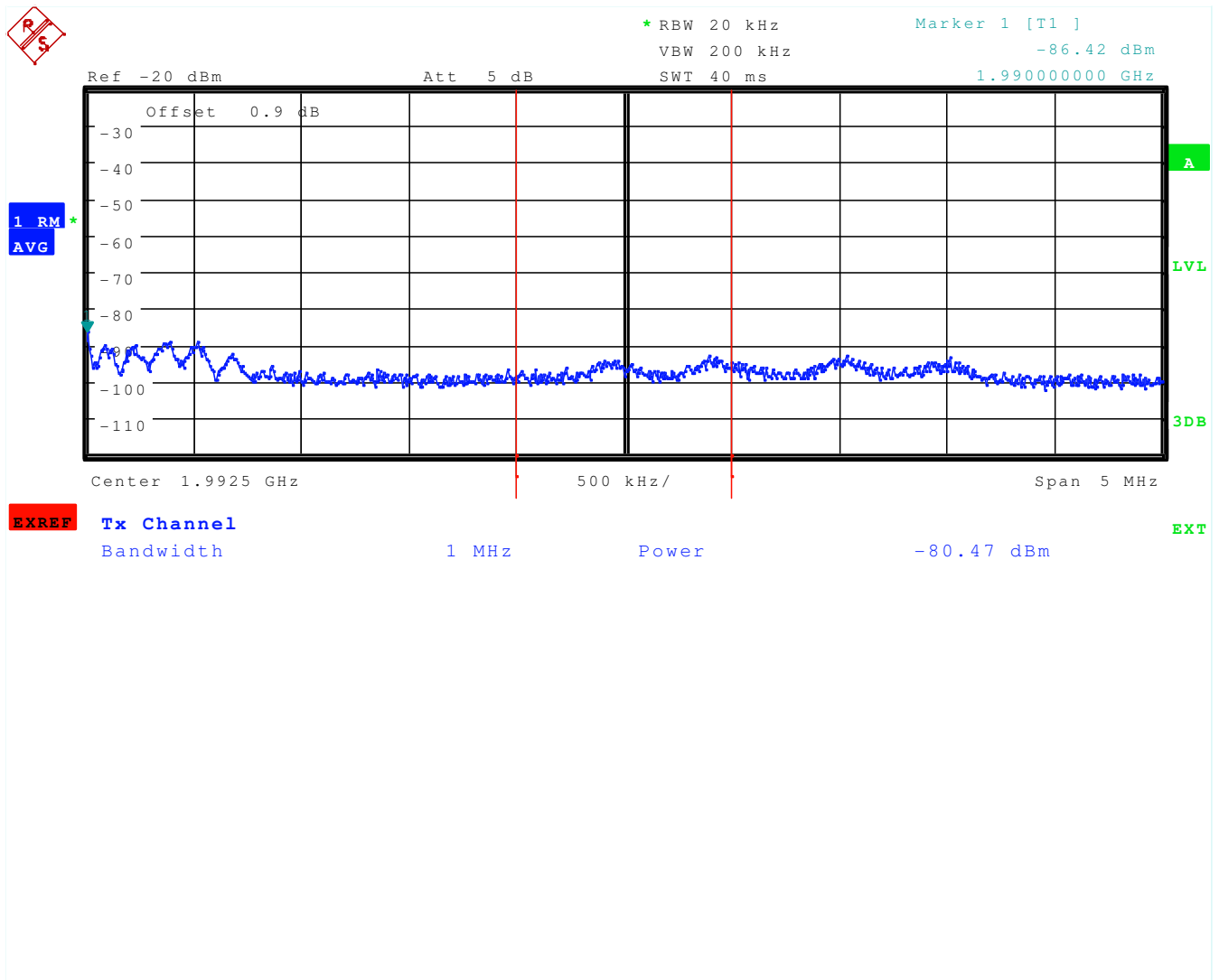
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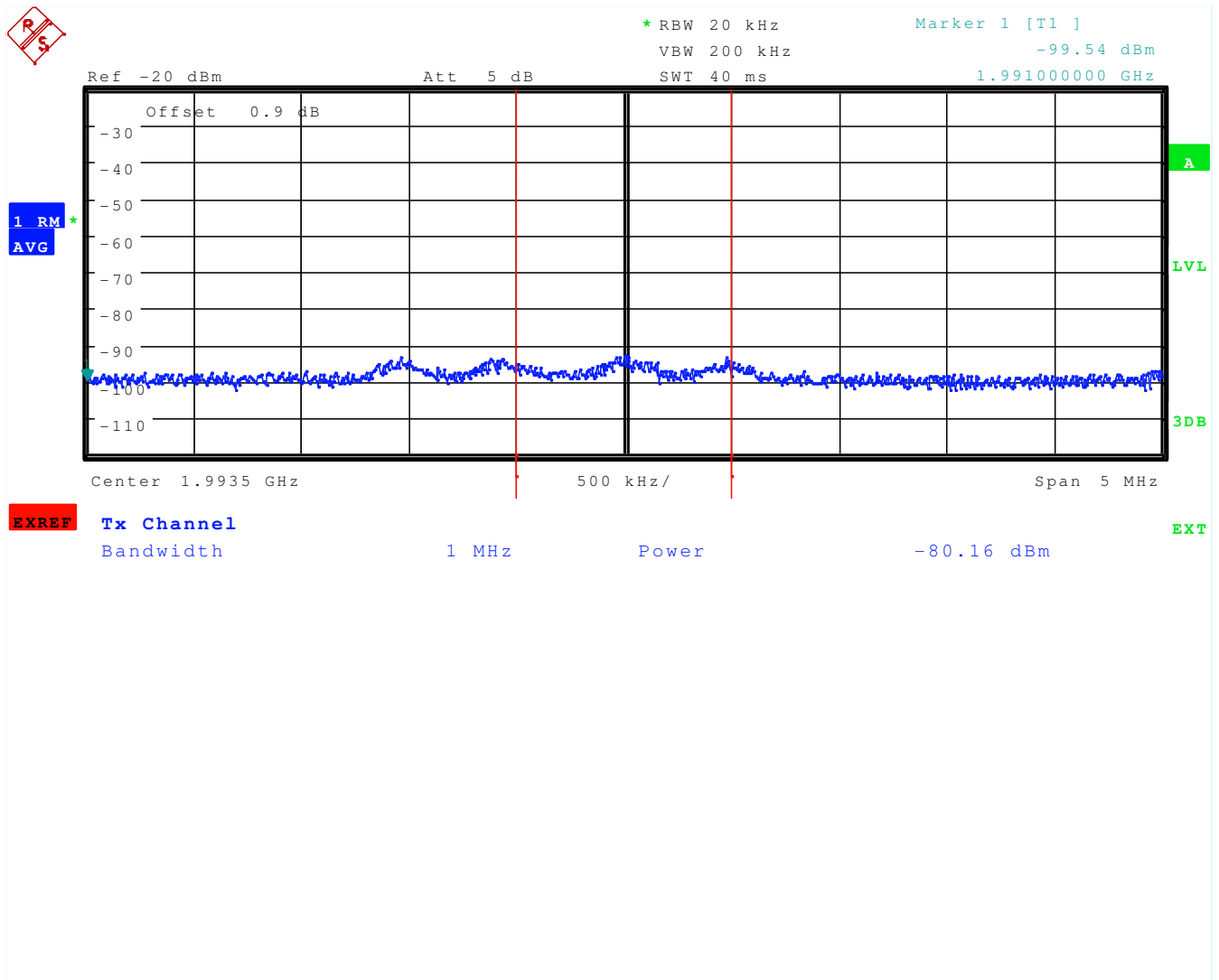
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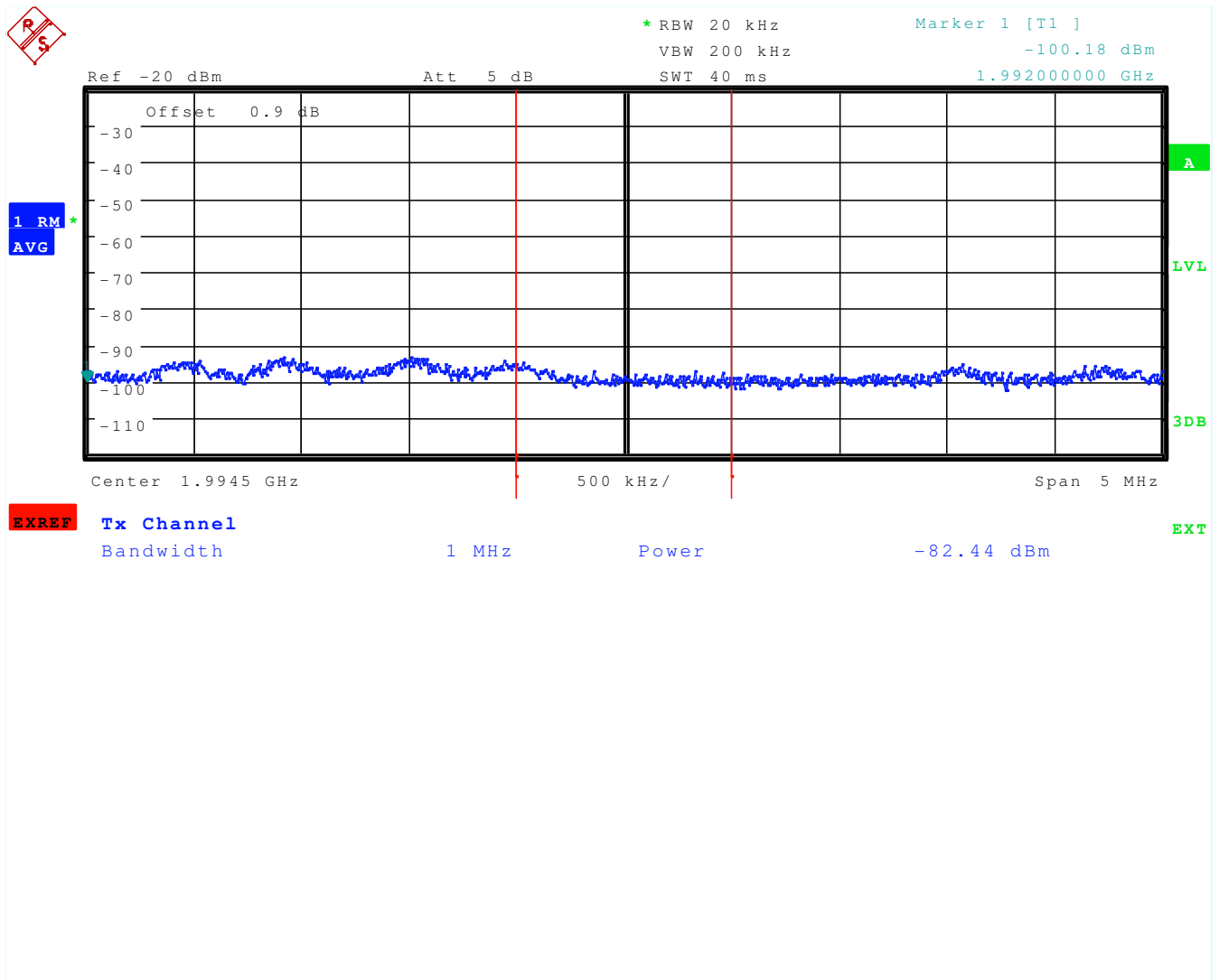
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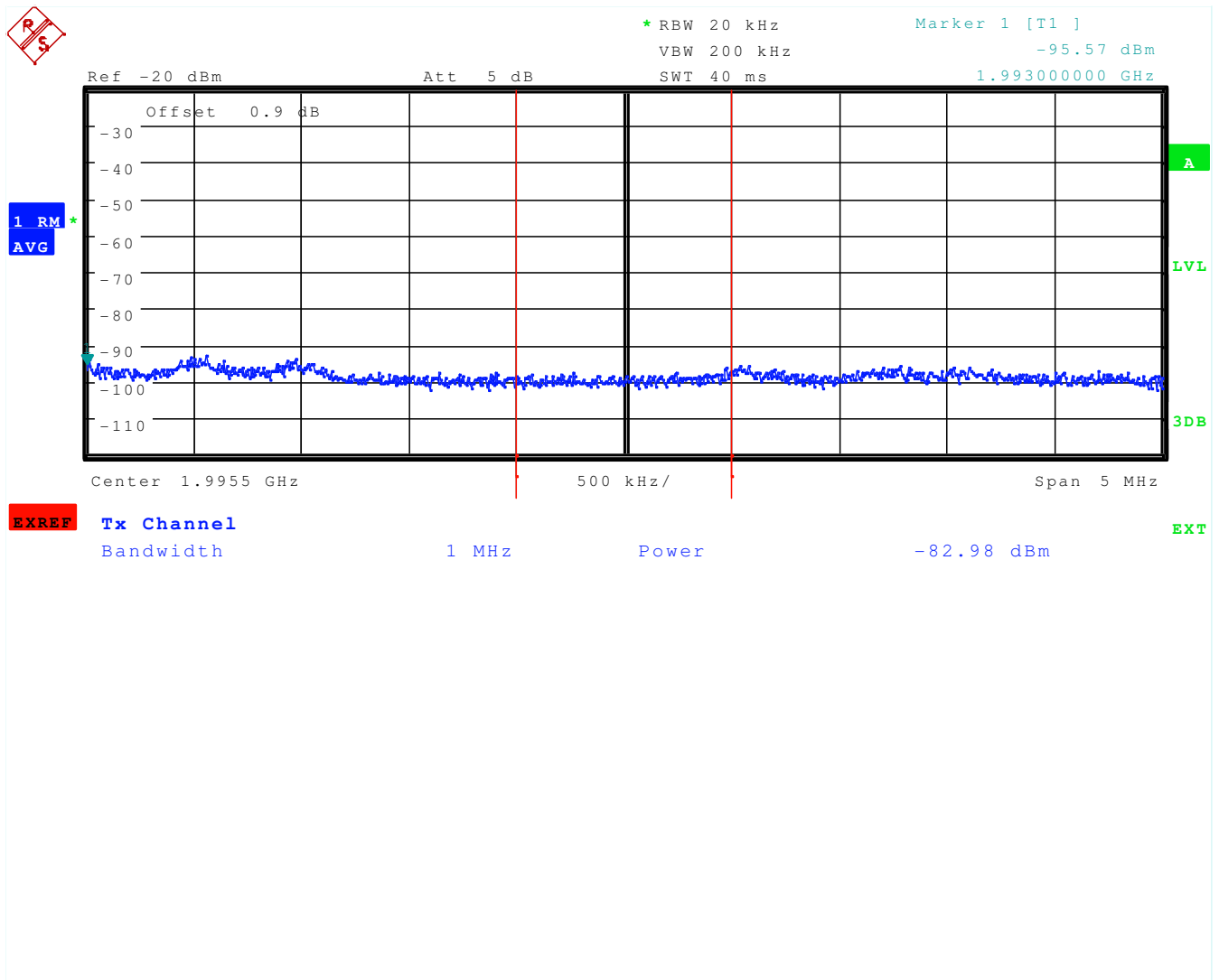
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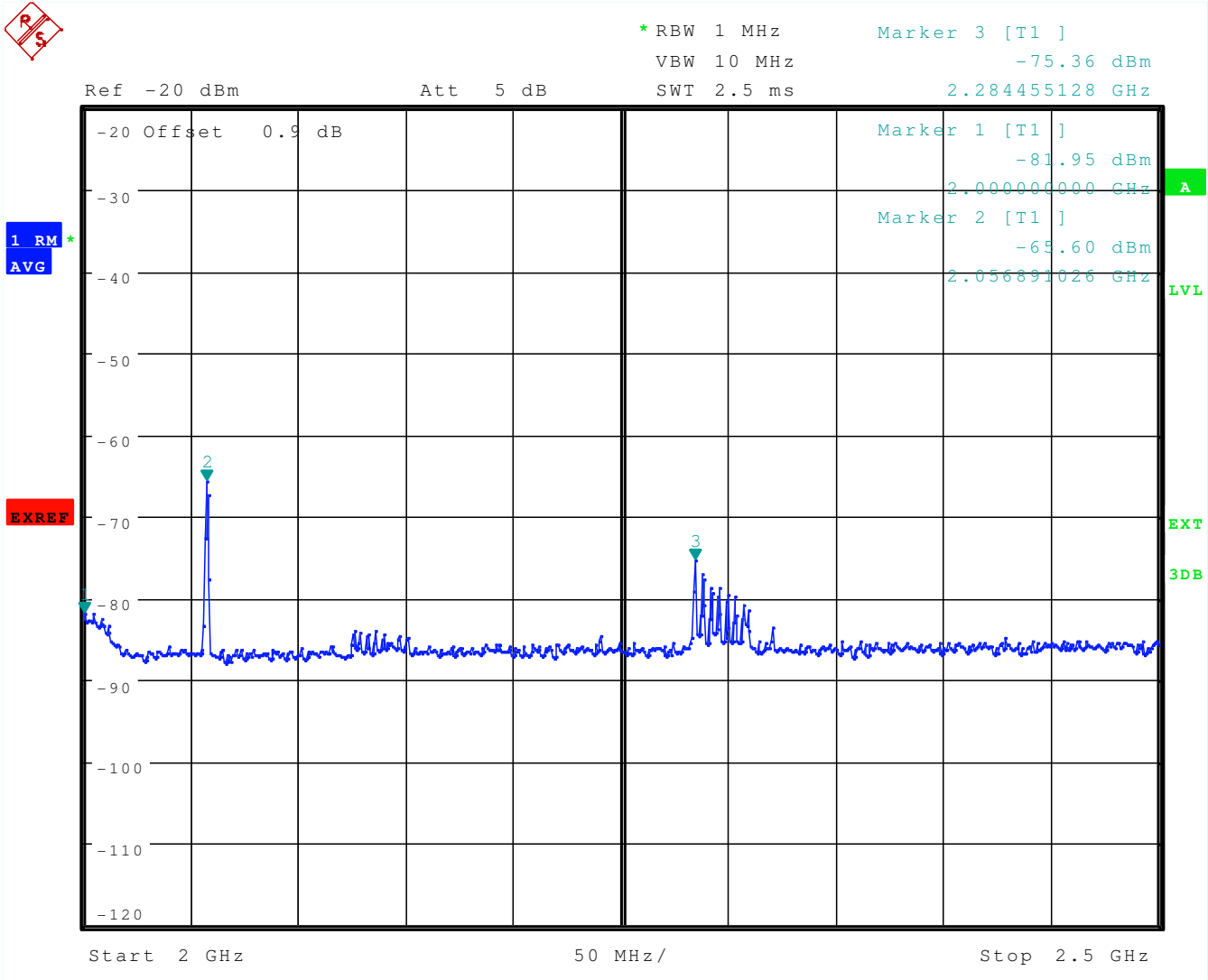
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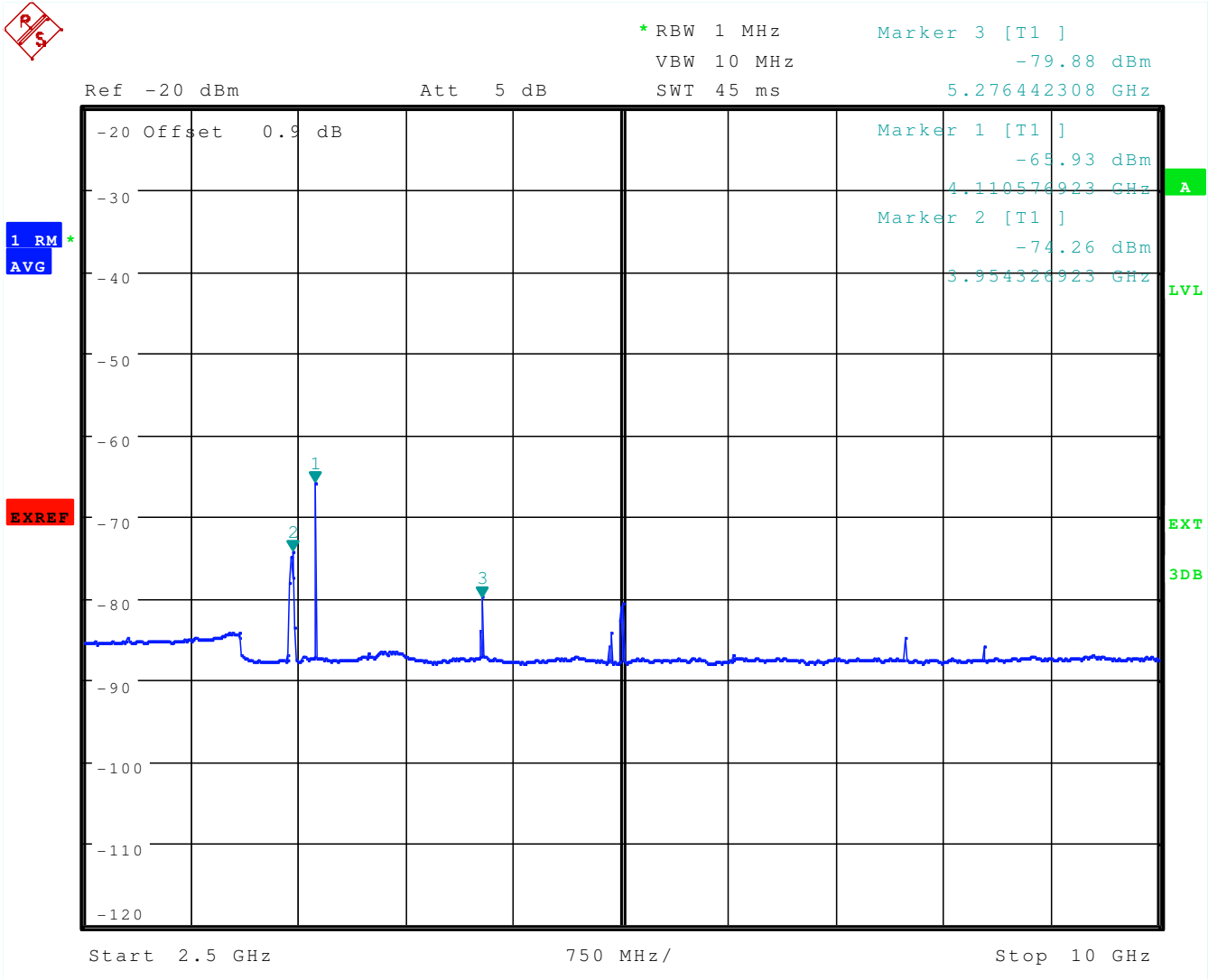
Date: 17.OCT.2008 16:42:51

Table 1.42: ./cdma-band-edge/cdma-band-edge-1995-2500.pdf



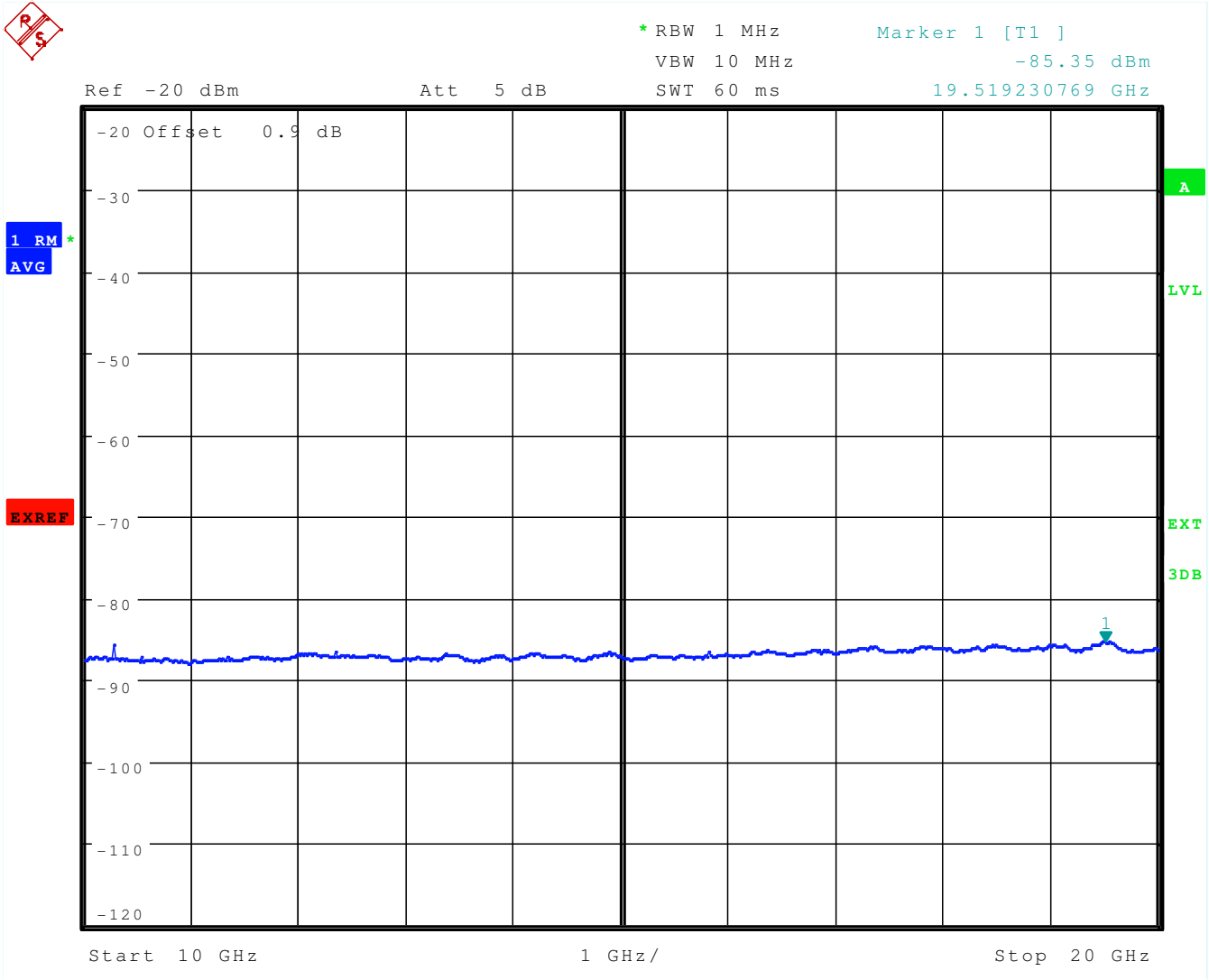
Date: 17.OCT.2008 16:51:39

Table 1.43: ./cdma-band-edge/cdma-band-edge-2pt5-10.pdf



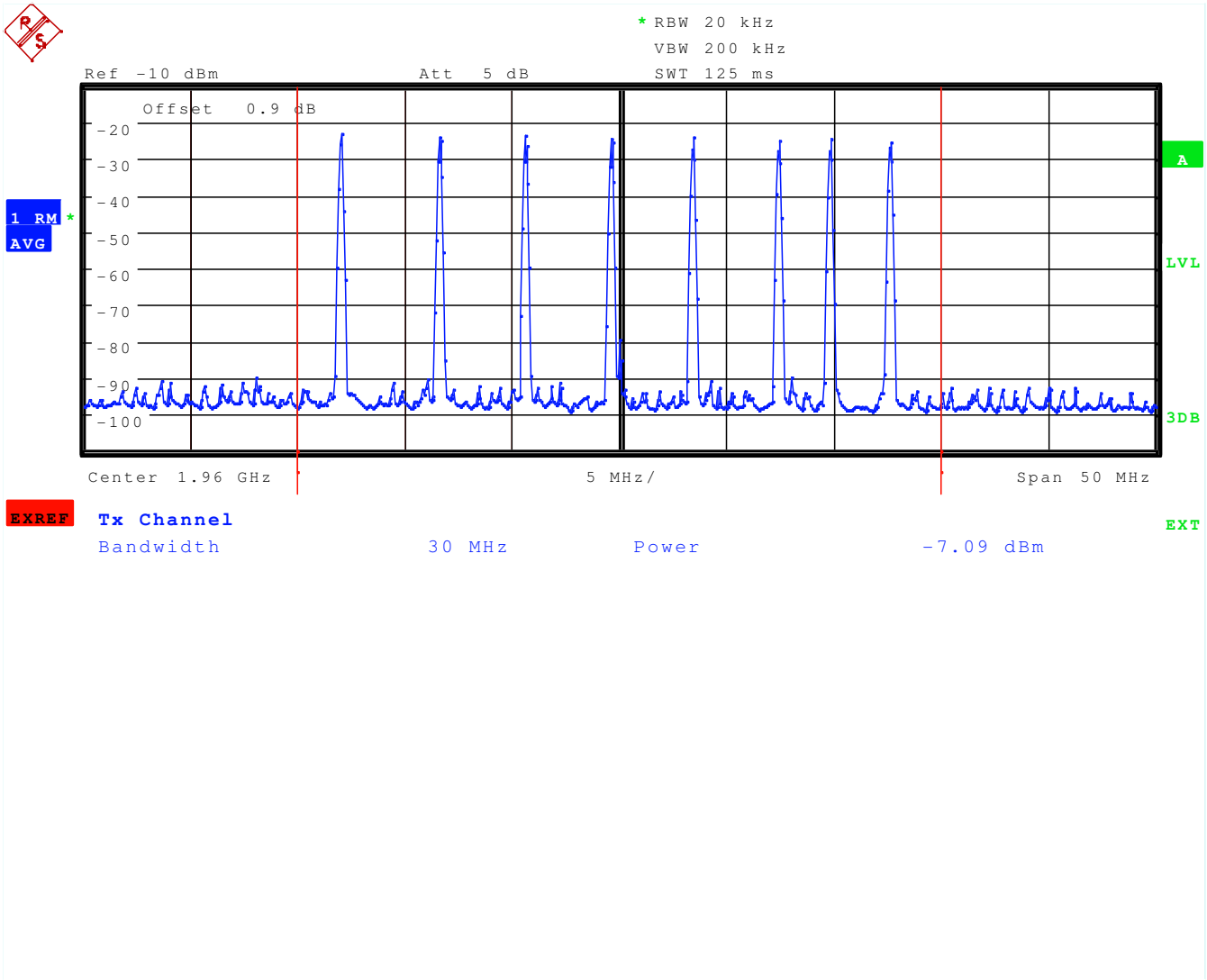
Date: 17.OCT.2008 16:54:53

Table 1.44: ./cdma-band-edge/cdma-band-edge-10-20.pdf



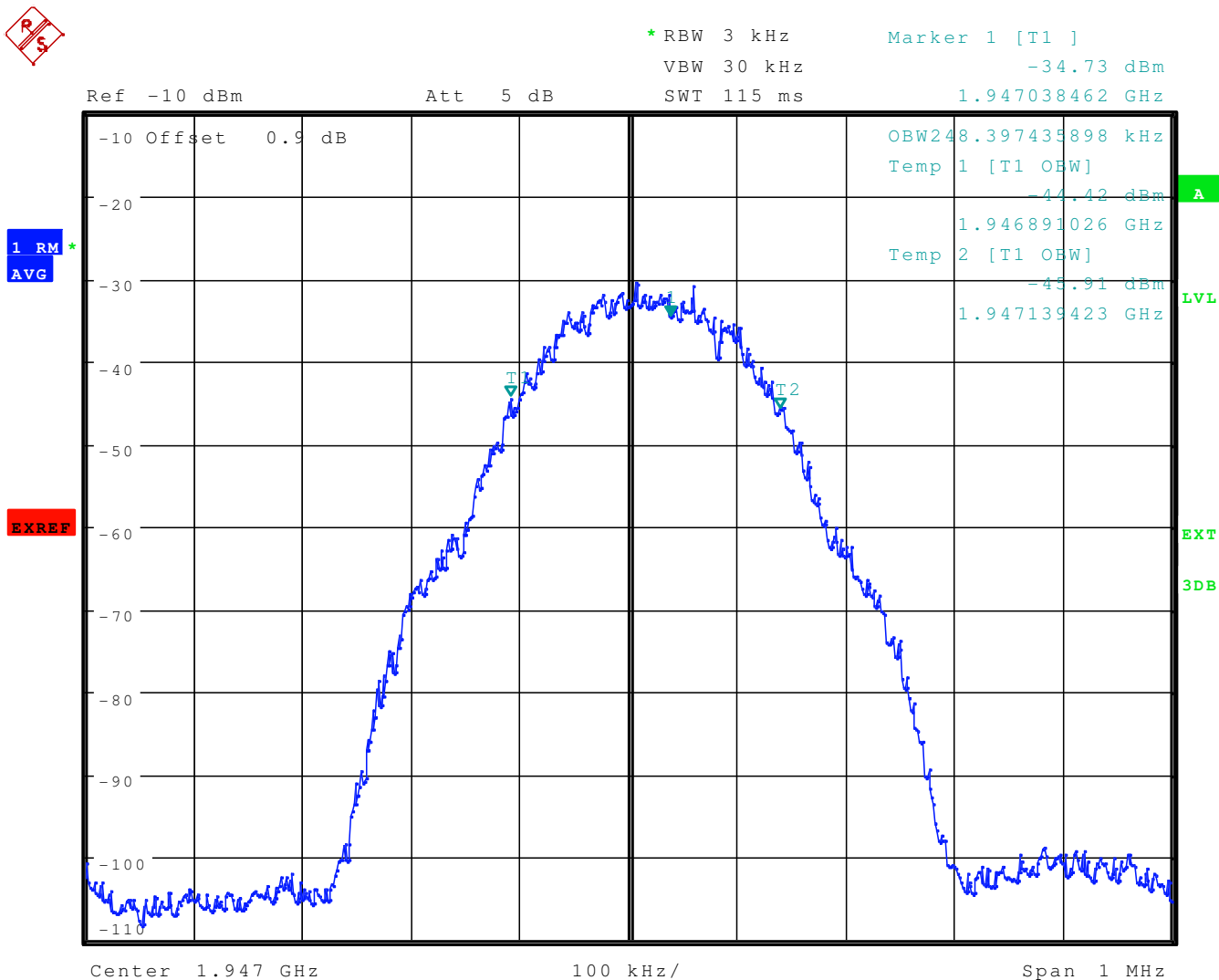
Date: 17.OCT.2008 16:56:12

Table 1.45: ./gsm-band-edge/8gsm-mid-total-power.pdf



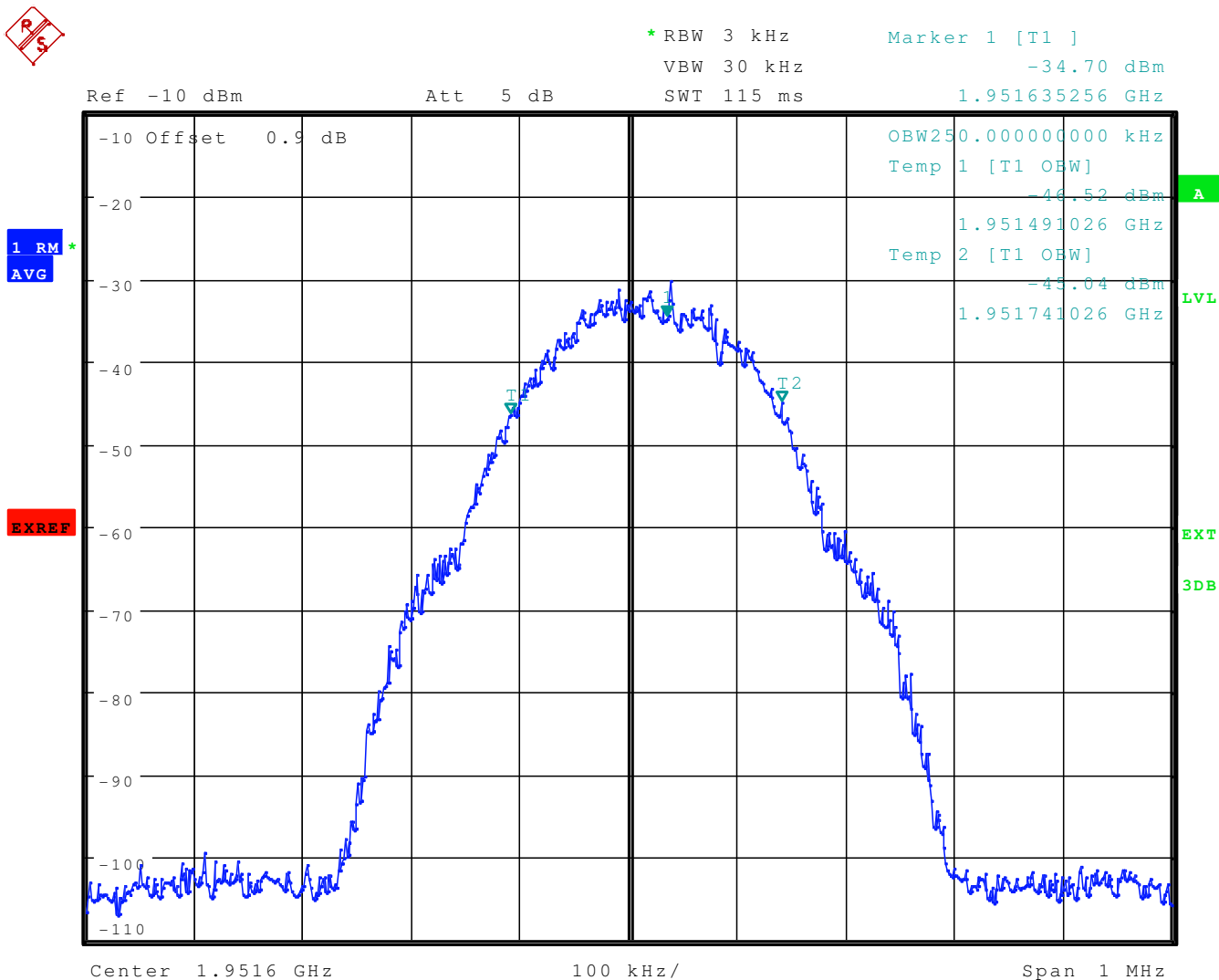
Date: 8.OCT.2008 22:17:26

Table 1.46: ./gsm-band-edge/8gsm-mid-bw1.pdf



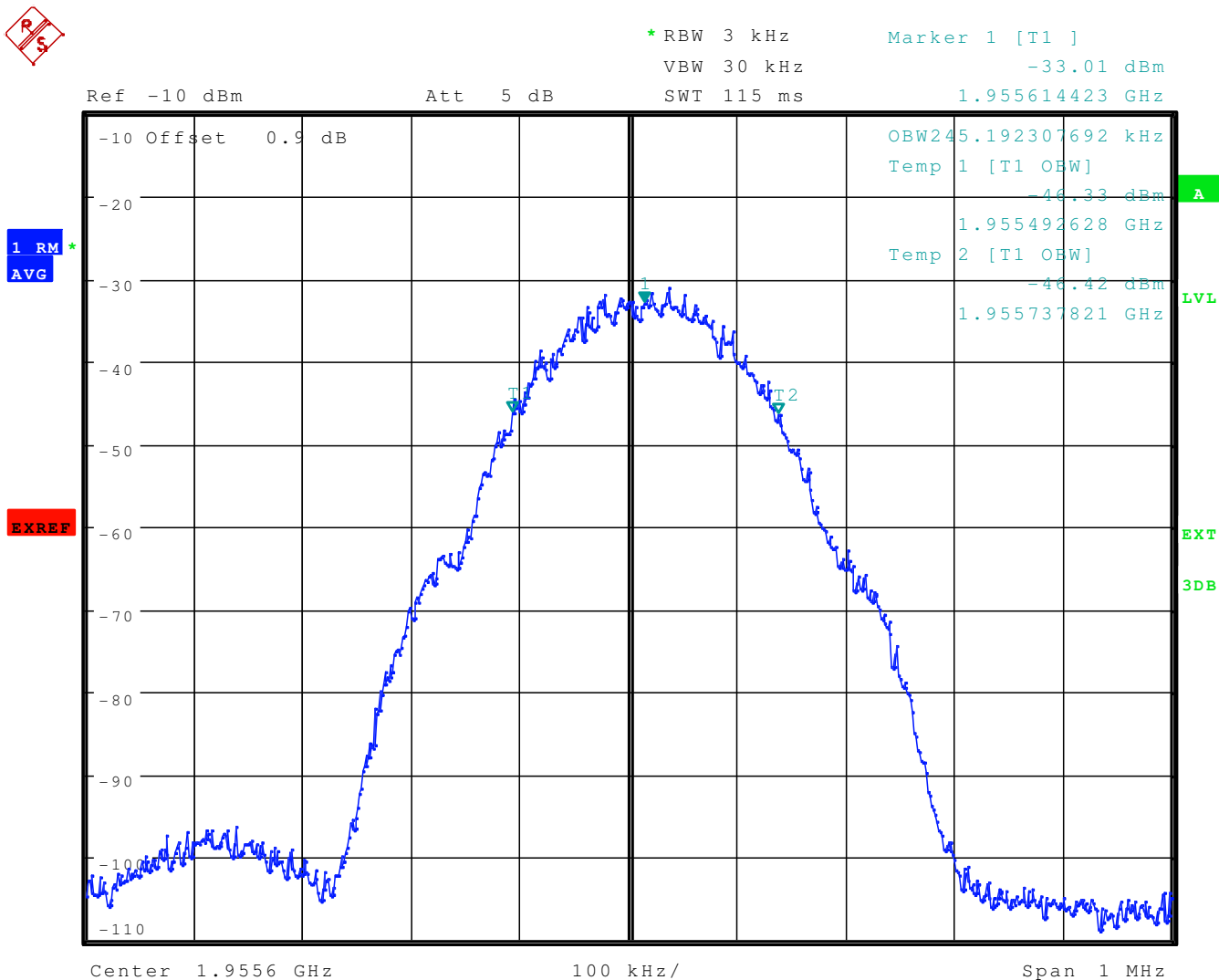
Date: 8.OCT.2008 22:57:16

Table 1.47: ./gsm-band-edge/8gsm-mid-bw2.pdf



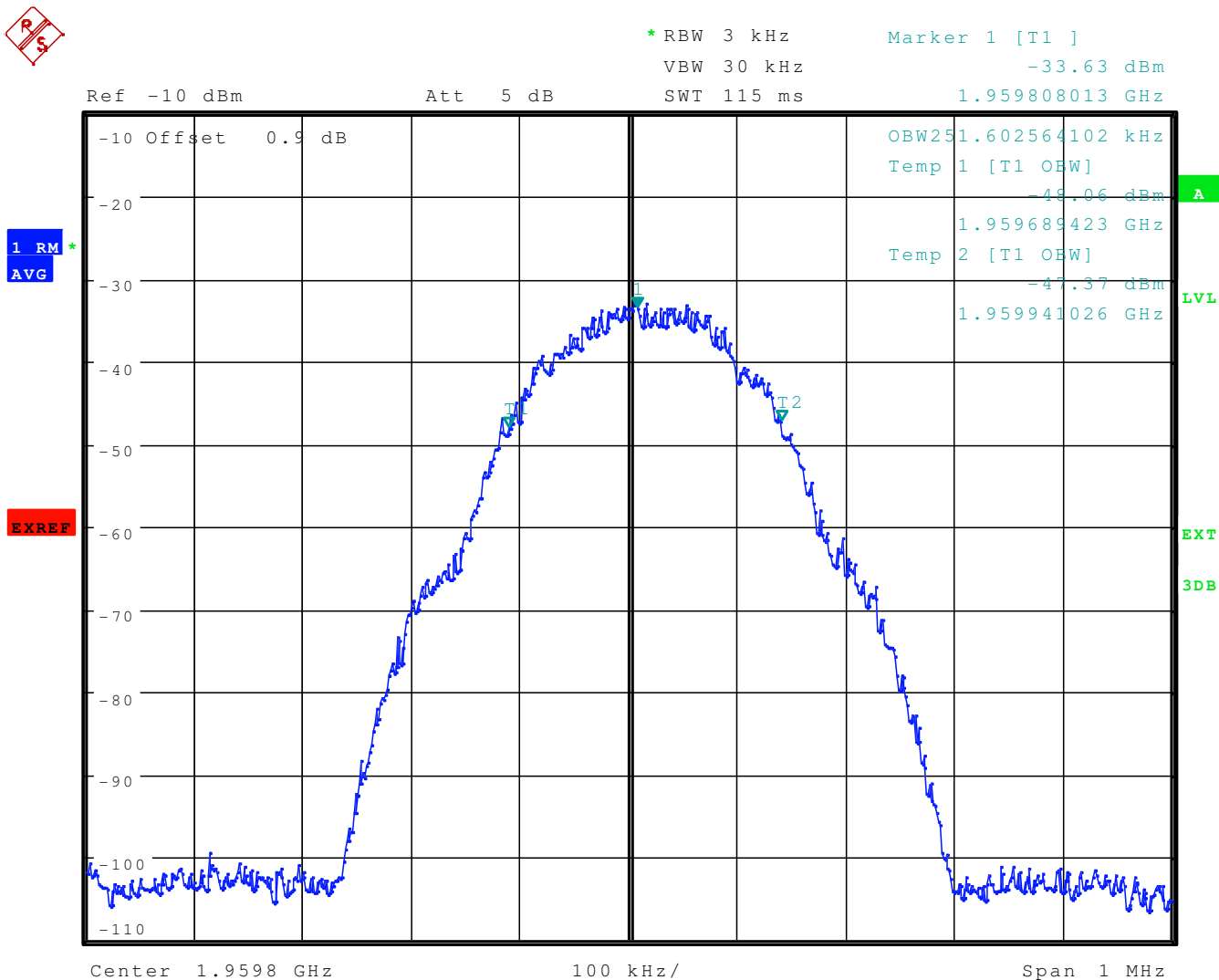
Date: 8.OCT.2008 23:01:23

Table 1.48: ./gsm-band-edge/8gsm-mid-bw3.pdf



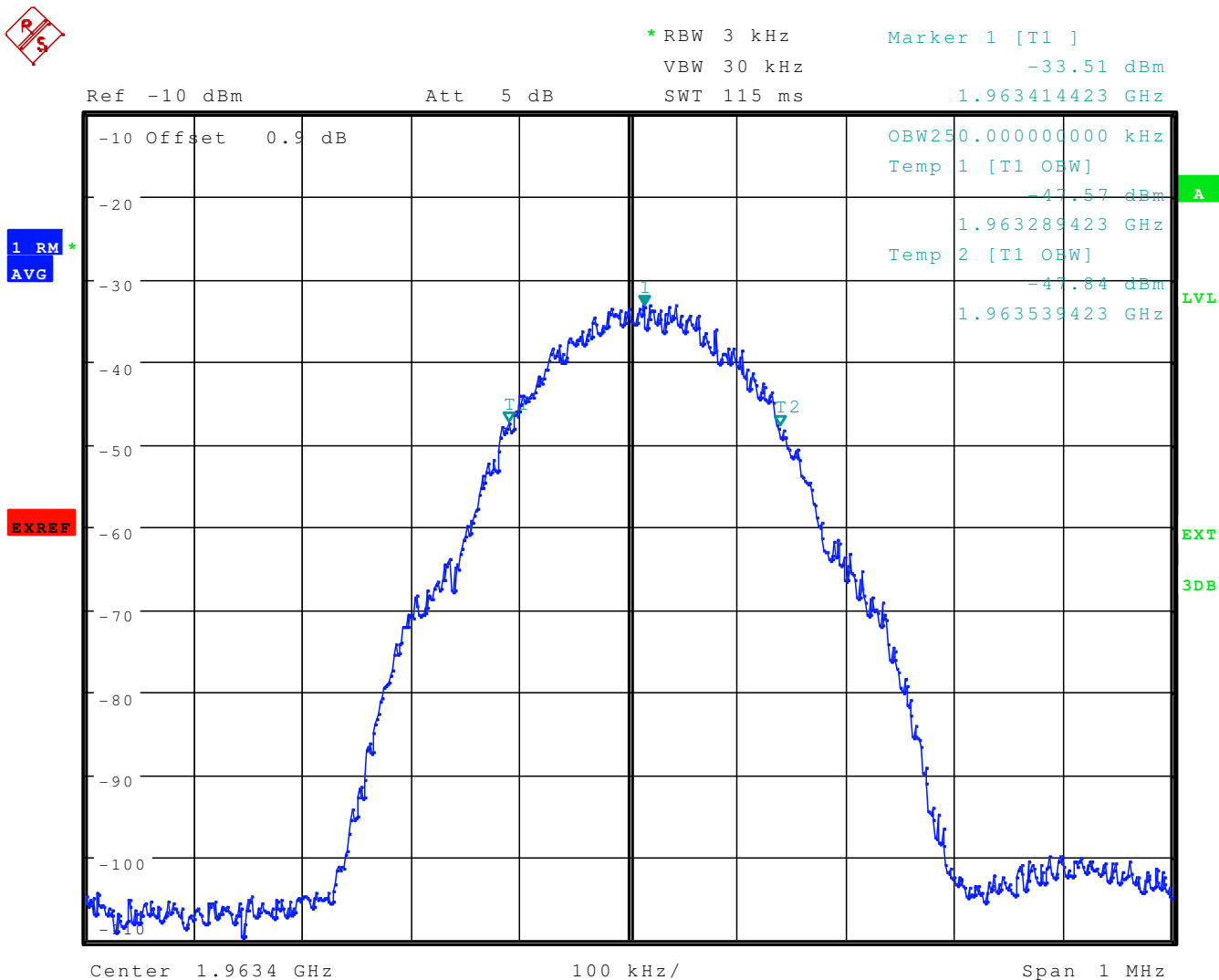
Date: 8.OCT.2008 23:02:10

Table 1.49: ./gsm-band-edge/8gsm-mid-bw4.pdf



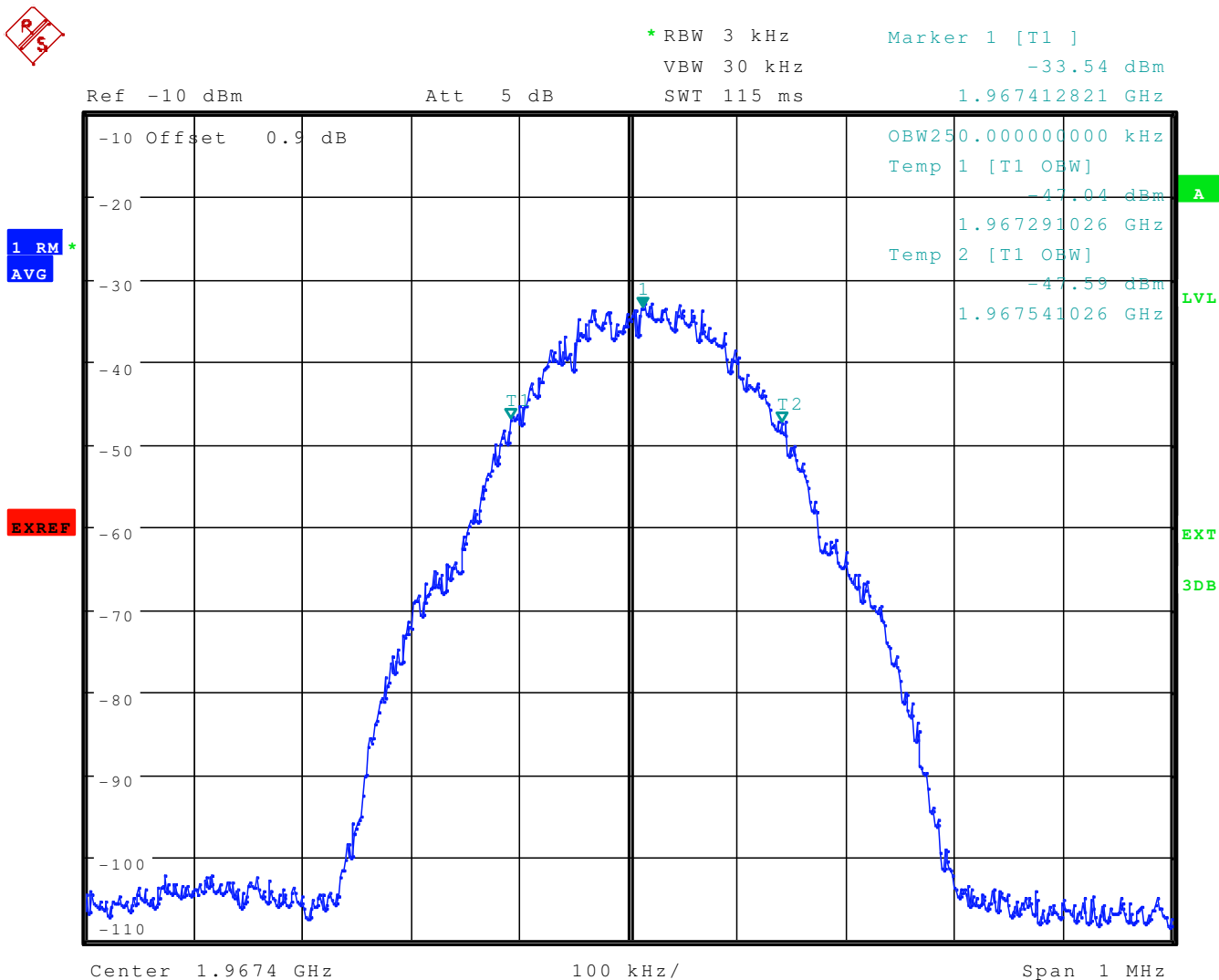
Date: 8.OCT.2008 23:04:14

Table 1.50: ./gsm-band-edge/8gsm-mid-bw5.pdf



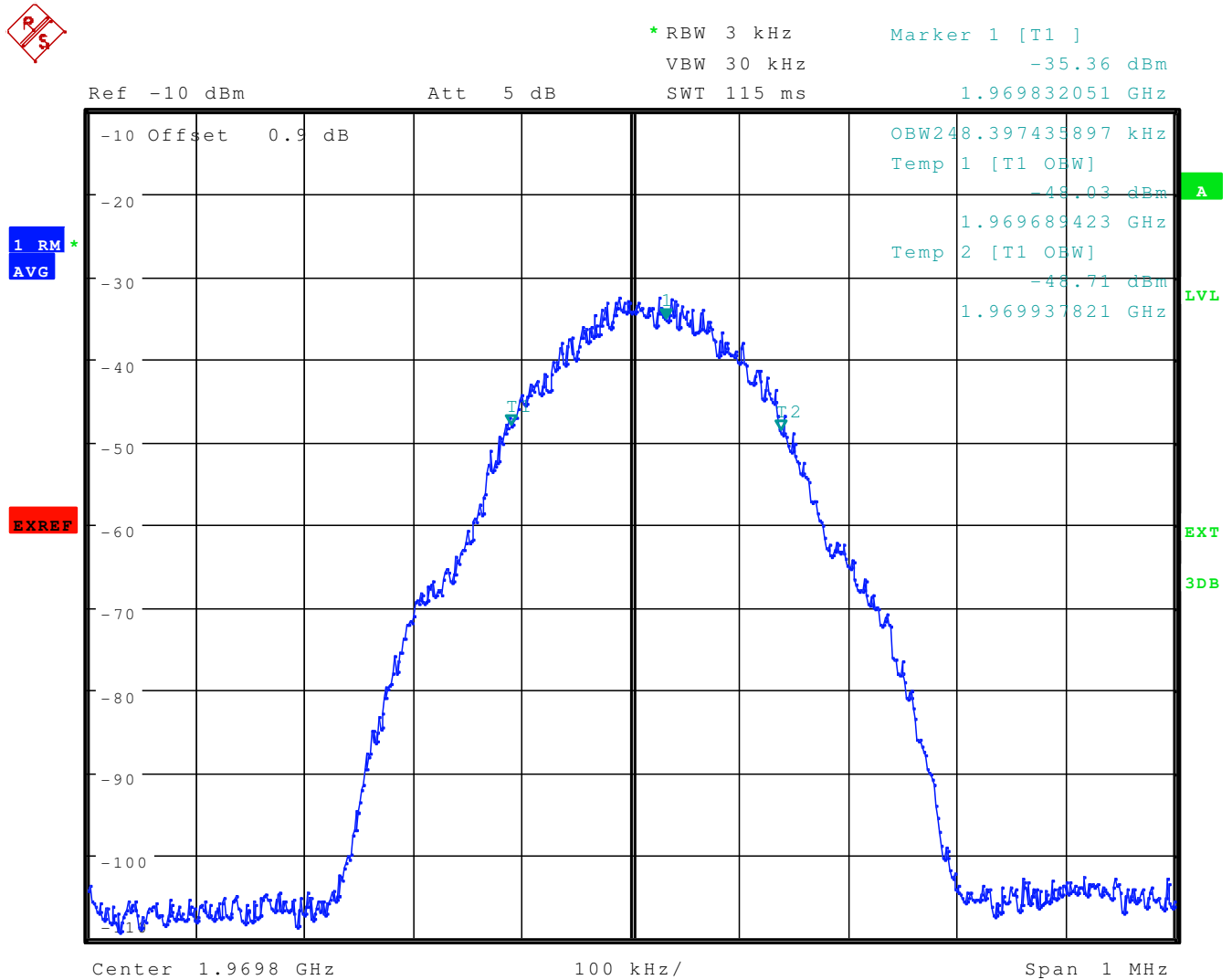
Date: 8.OCT.2008 23:05:17

Table 1.51: ./gsm-band-edge/8gsm-mid-bw6.pdf



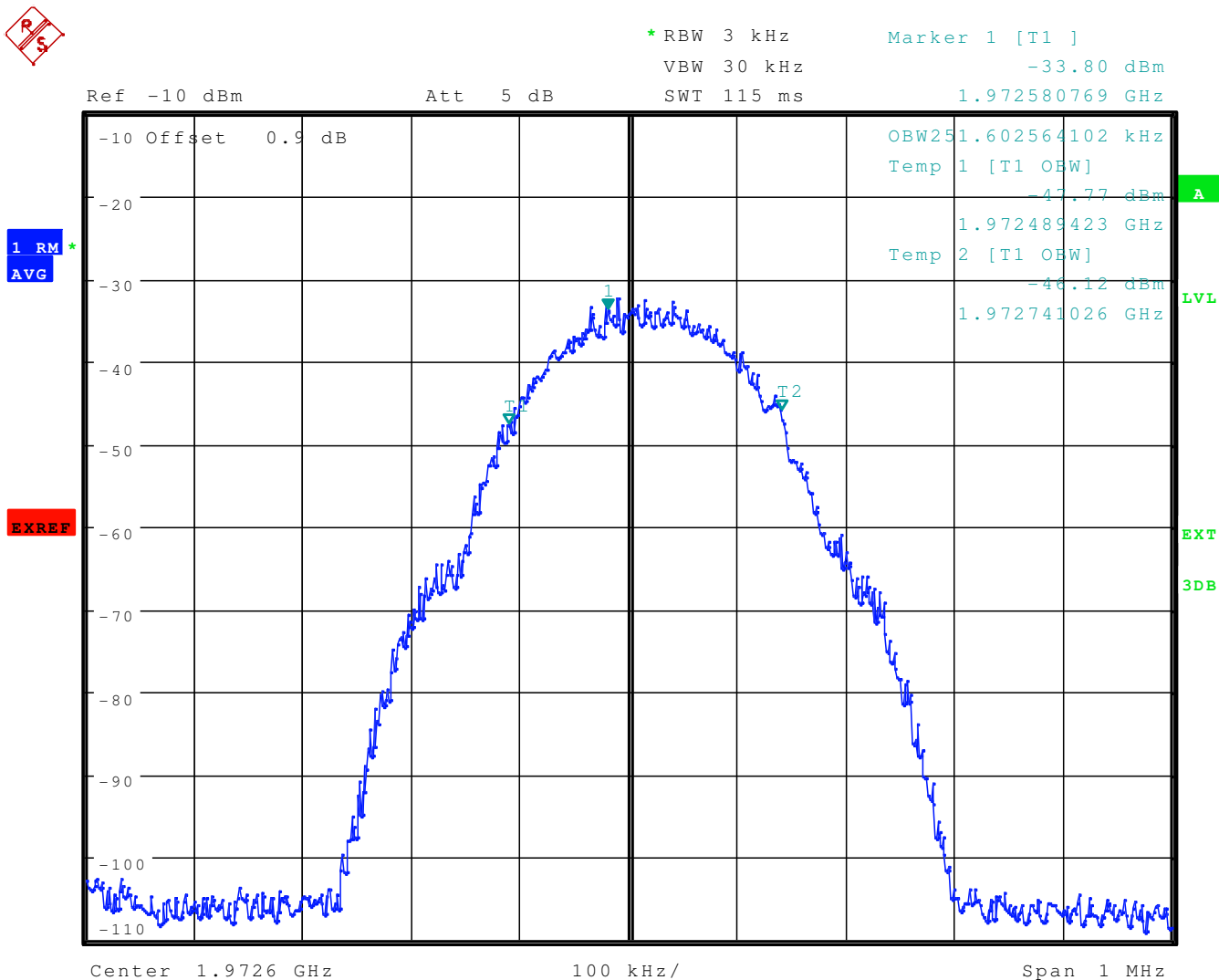
Date: 8.OCT.2008 23:06:35

Table 1.52: [./gsm-band-edge/8gsm-mid-bw7.pdf](#)



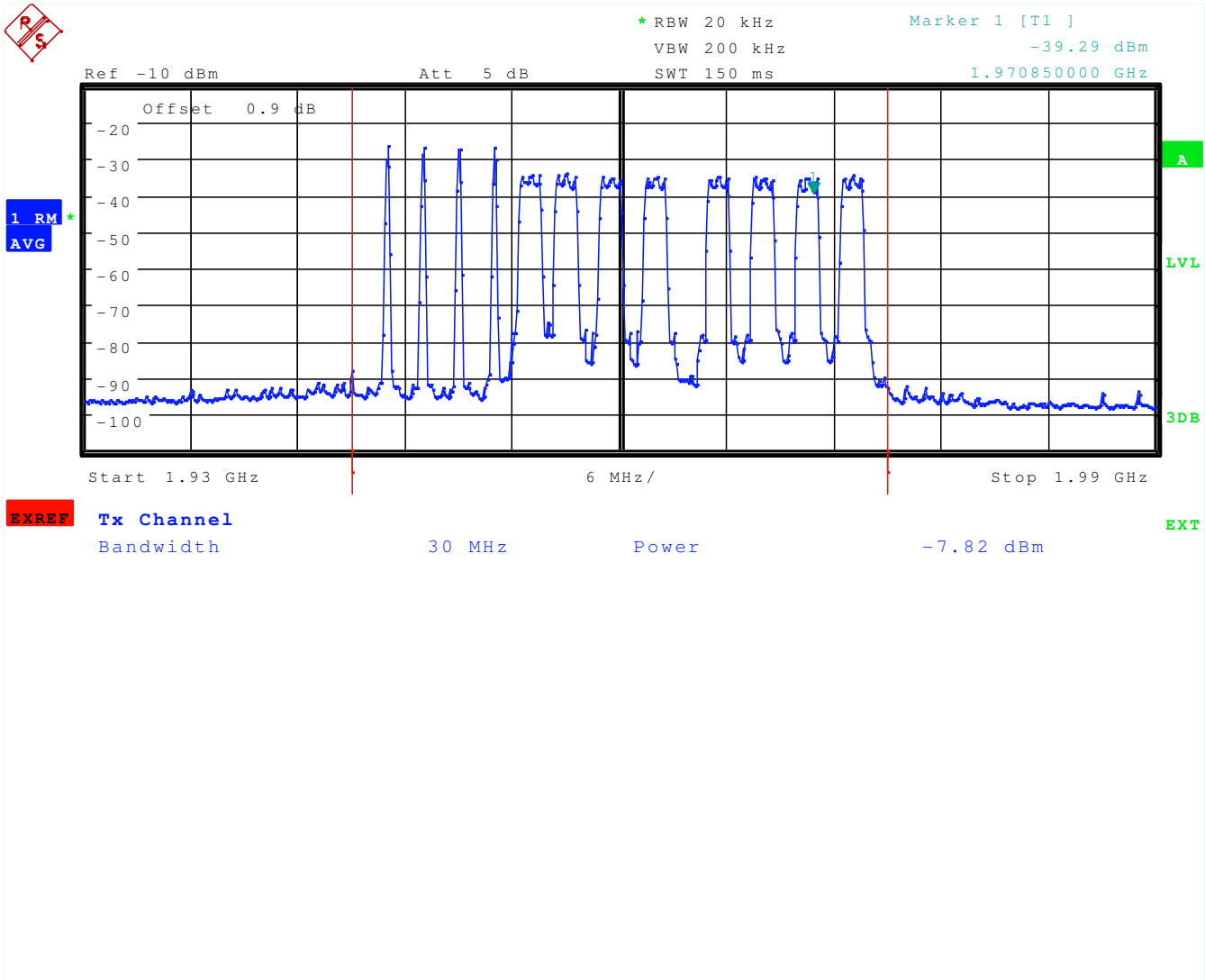
Date: 8.OCT.2008 23:11:27

Table 1.53: ./gsm-band-edge/8gsm-mid-bw8.pdf



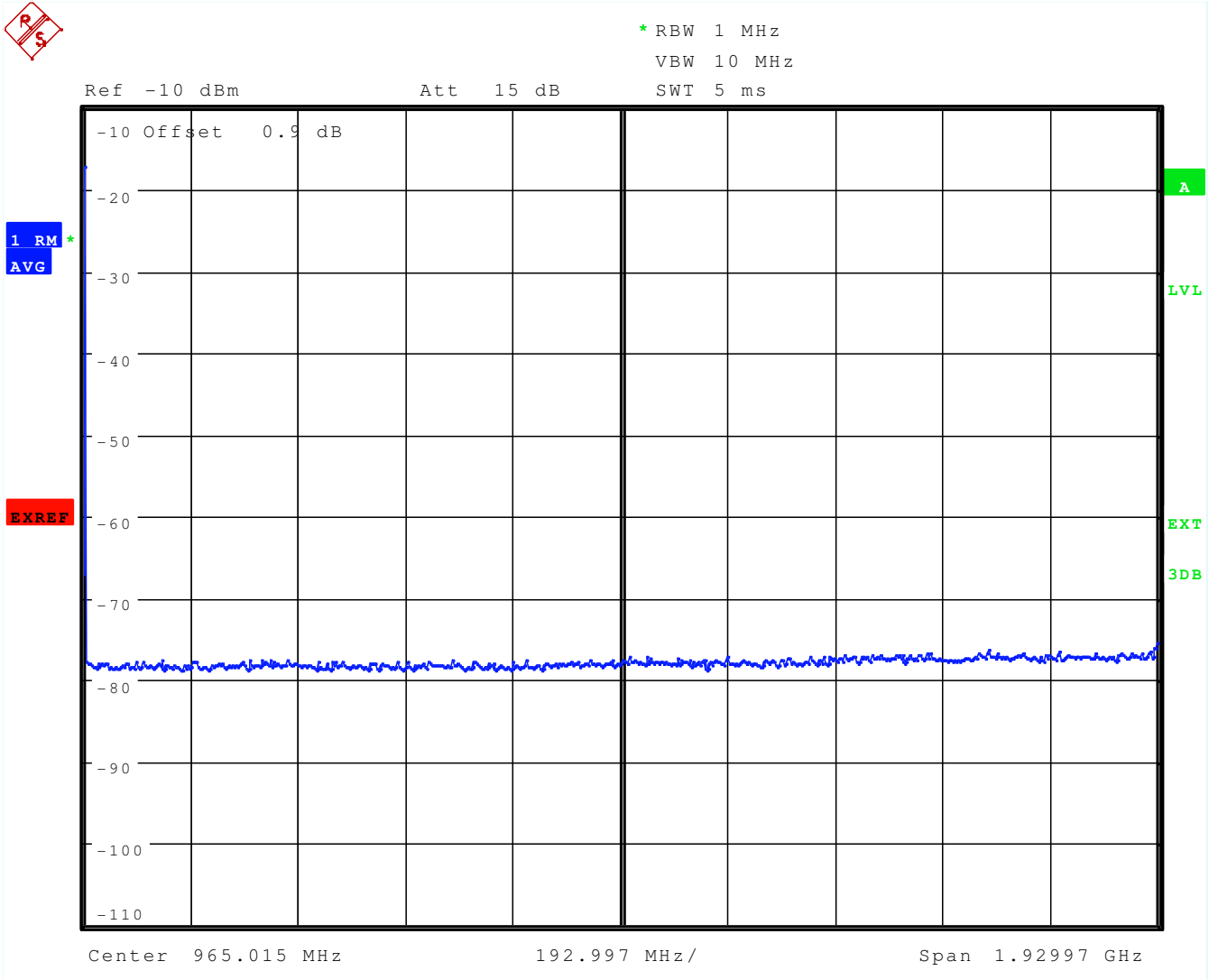
Date: 8.OCT.2008 23:12:28

Table 1.54: ./8cdma-4gsm-mid/8cdma-4gsm-total-power-1930-1990.pdf



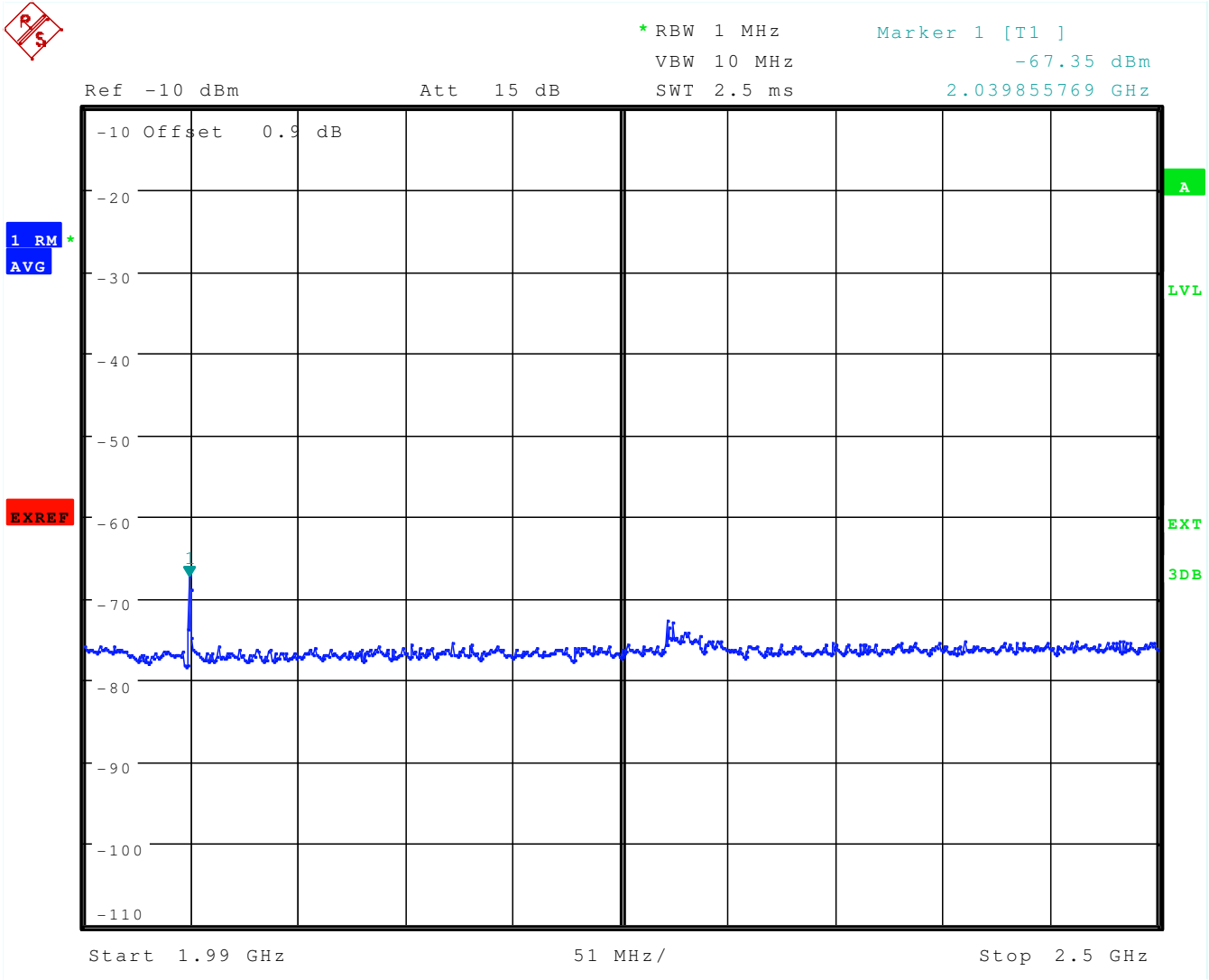
Date: 19.OCT.2008 13:20:48

Table 1.55: ./8cdma-4gsm-mid/8cdma-4gsm-30k-1930.pdf



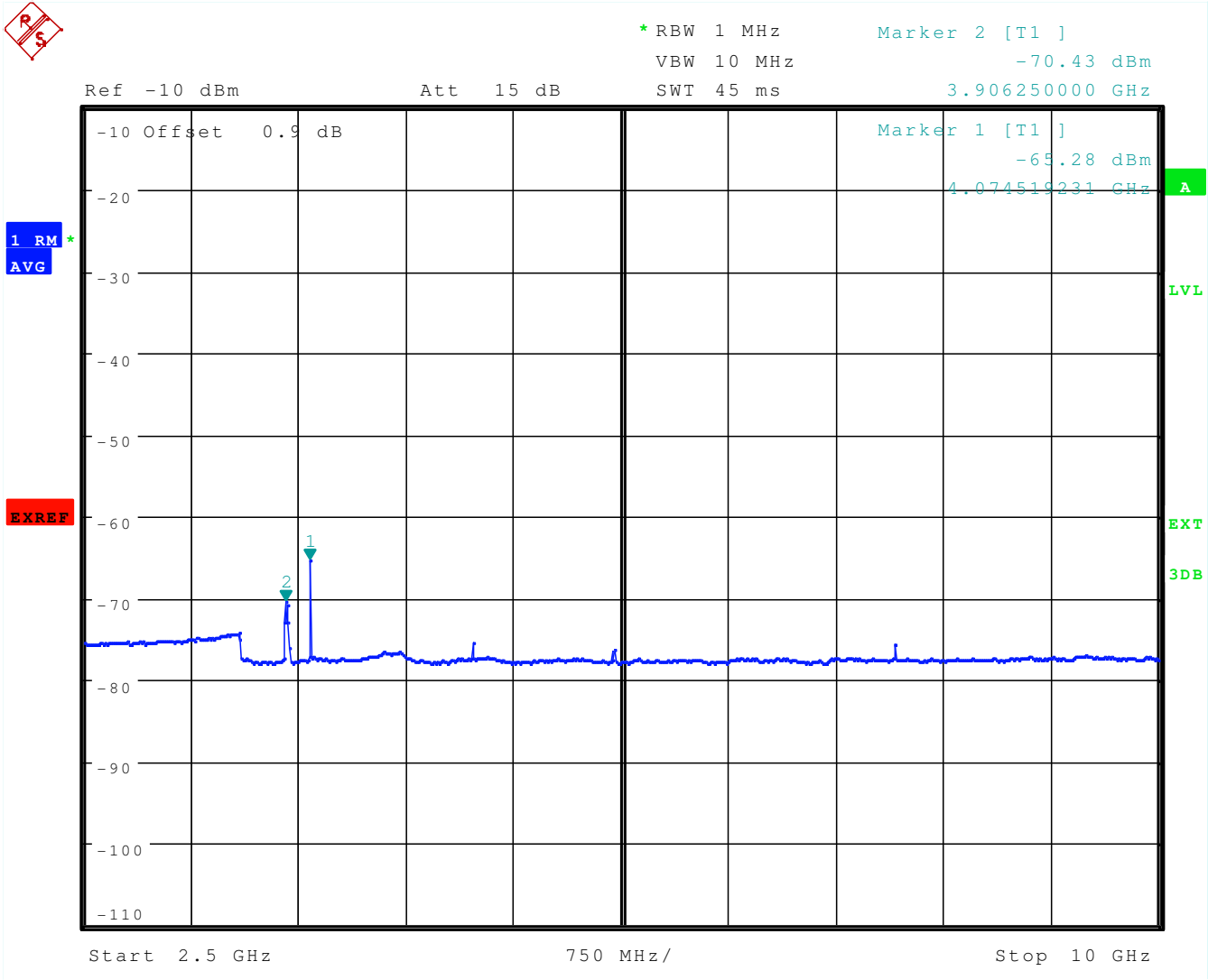
Date: 19.OCT.2008 13:25:58

Table 1.56: ./8cdma-4gsm-mid/8cdma-4gsm-1990-2pt5.pdf



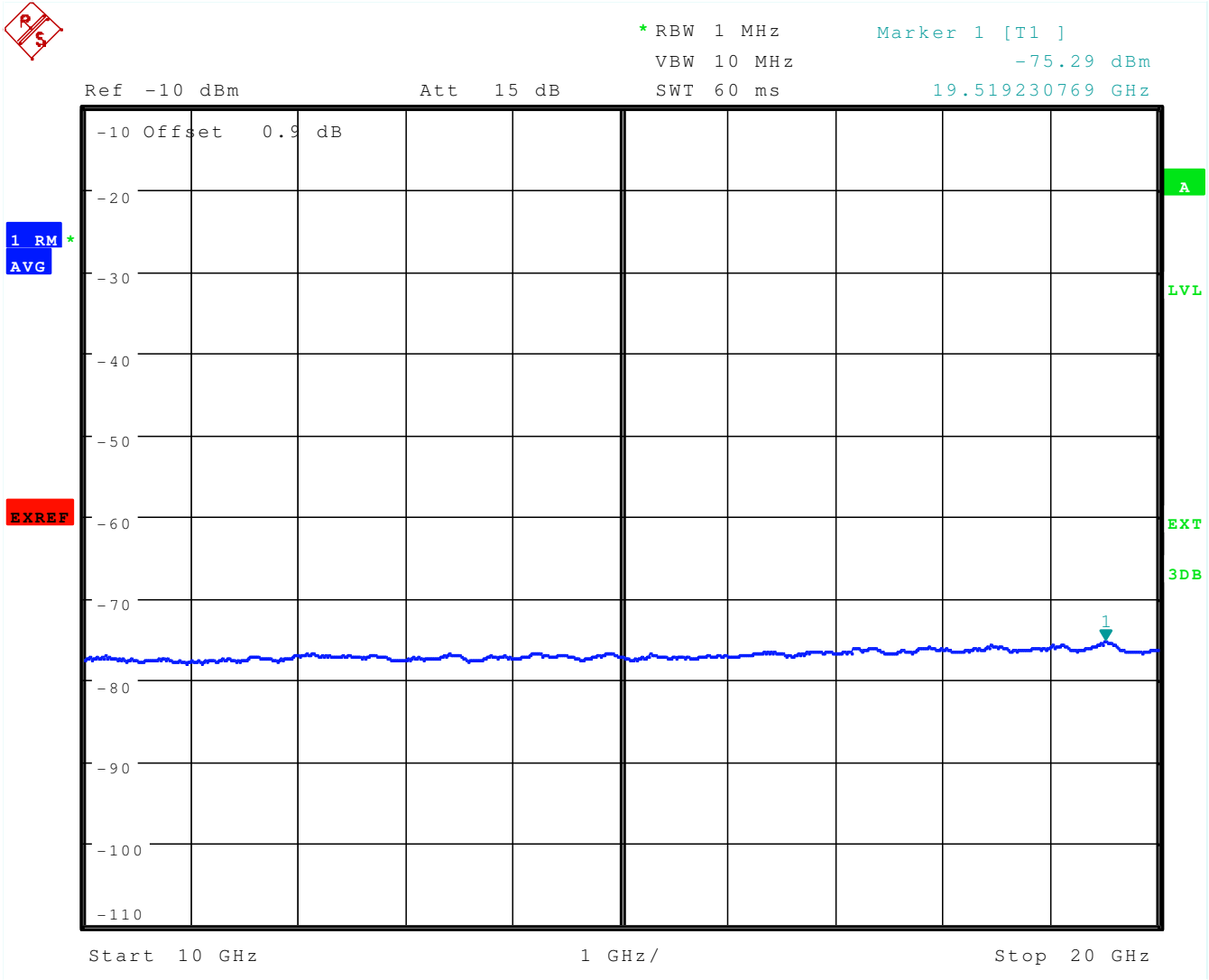
Date: 19.OCT.2008 13:28:52

Table 1.57: ./8cdma-4gsm-mid/8cdma-4gsm-2pt5-10.pdf



Date: 19.OCT.2008 13:29:52

Table 1.58: ./8cdma-4gsm-mid/8cdma-4gsm-10-20.pdf



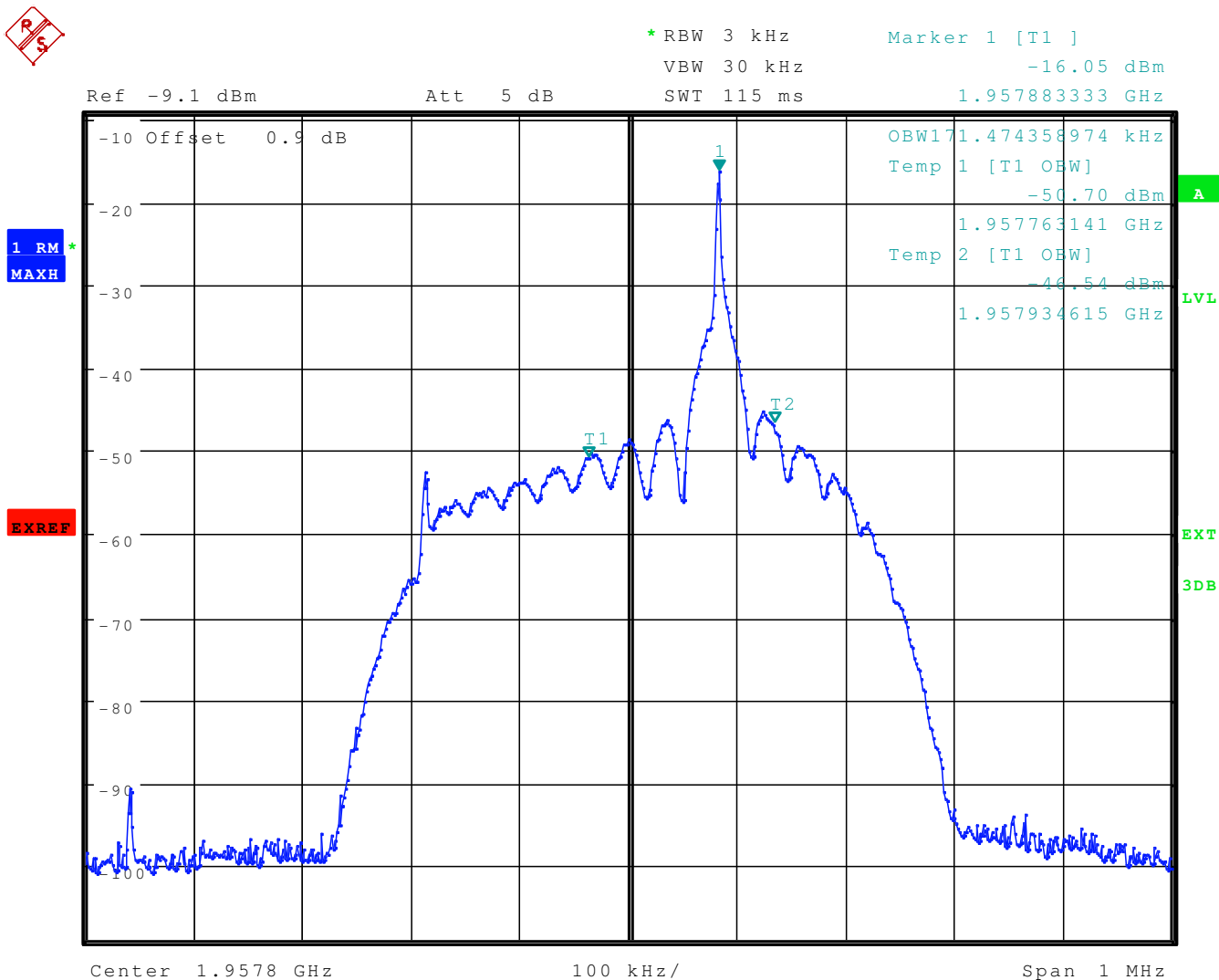
Date: 19.OCT.2008 13:30:30

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MAXH	



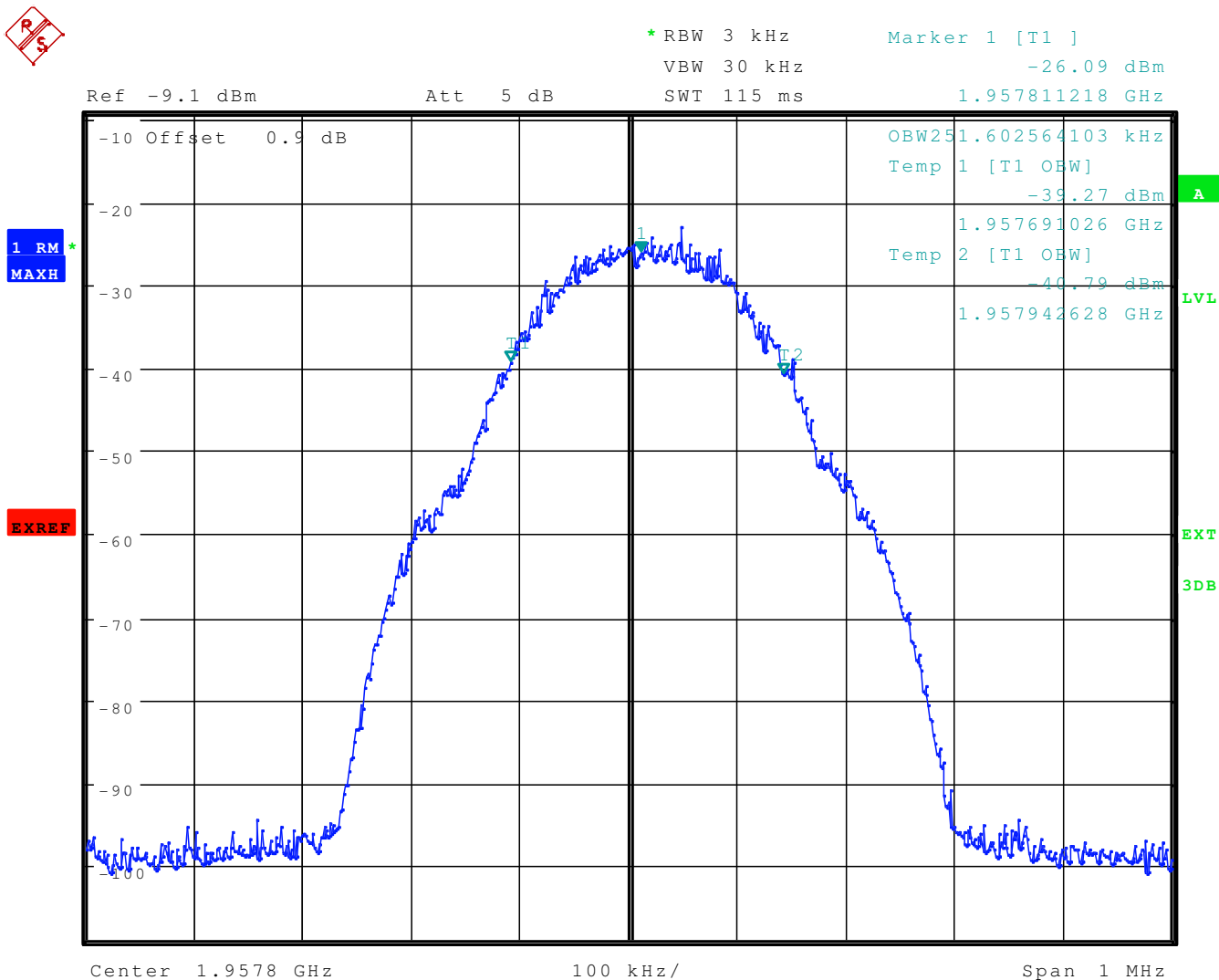
58

Table 1.60: ./gsm-patterns/1gsm-b-max-hold-rms-99power-bw.pdf



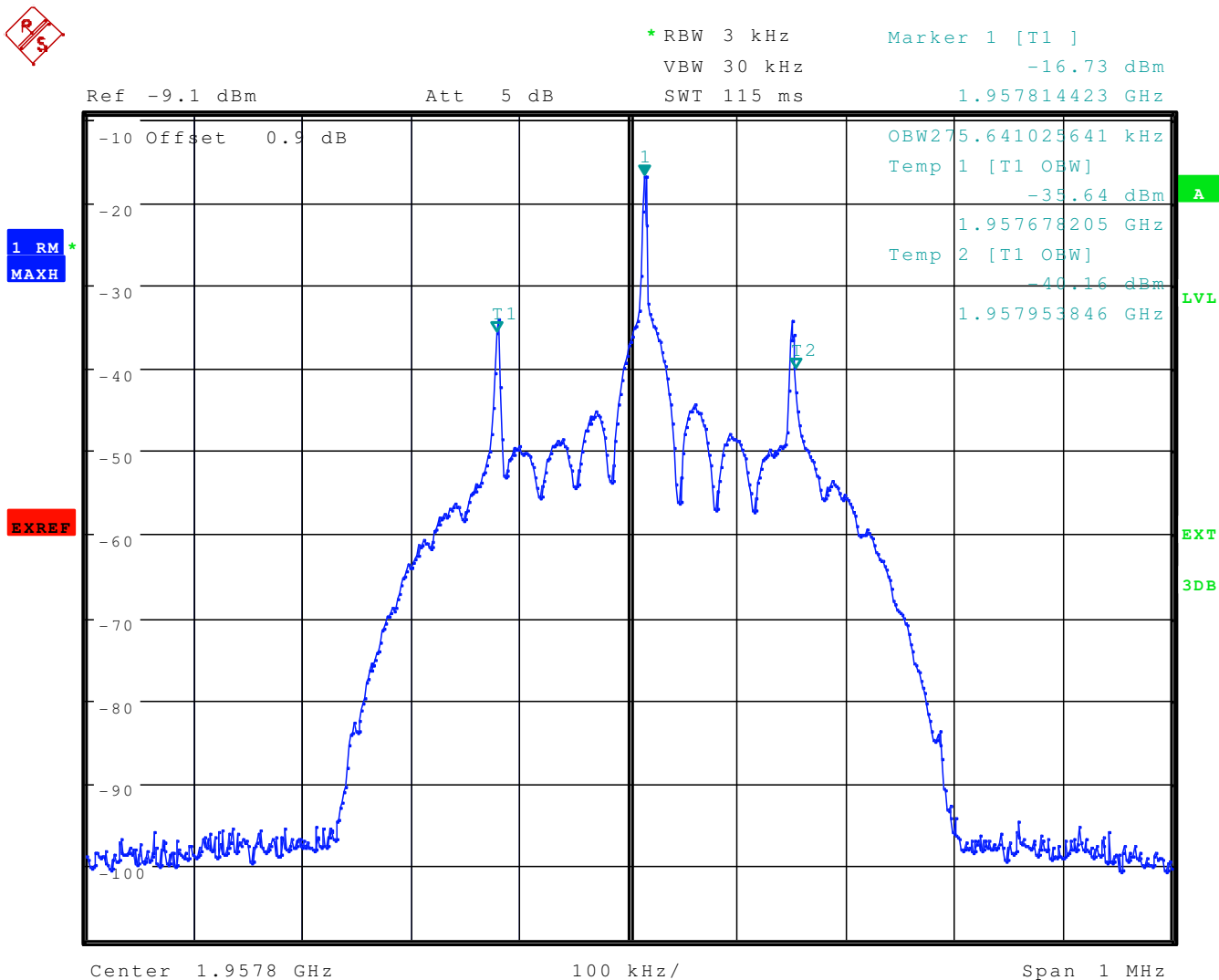
Date: 16.OCT.2008 20:37:30

Table 1.61: ./gsm-patterns/1gsm-c-max-hold-rms-99power-bw.pdf



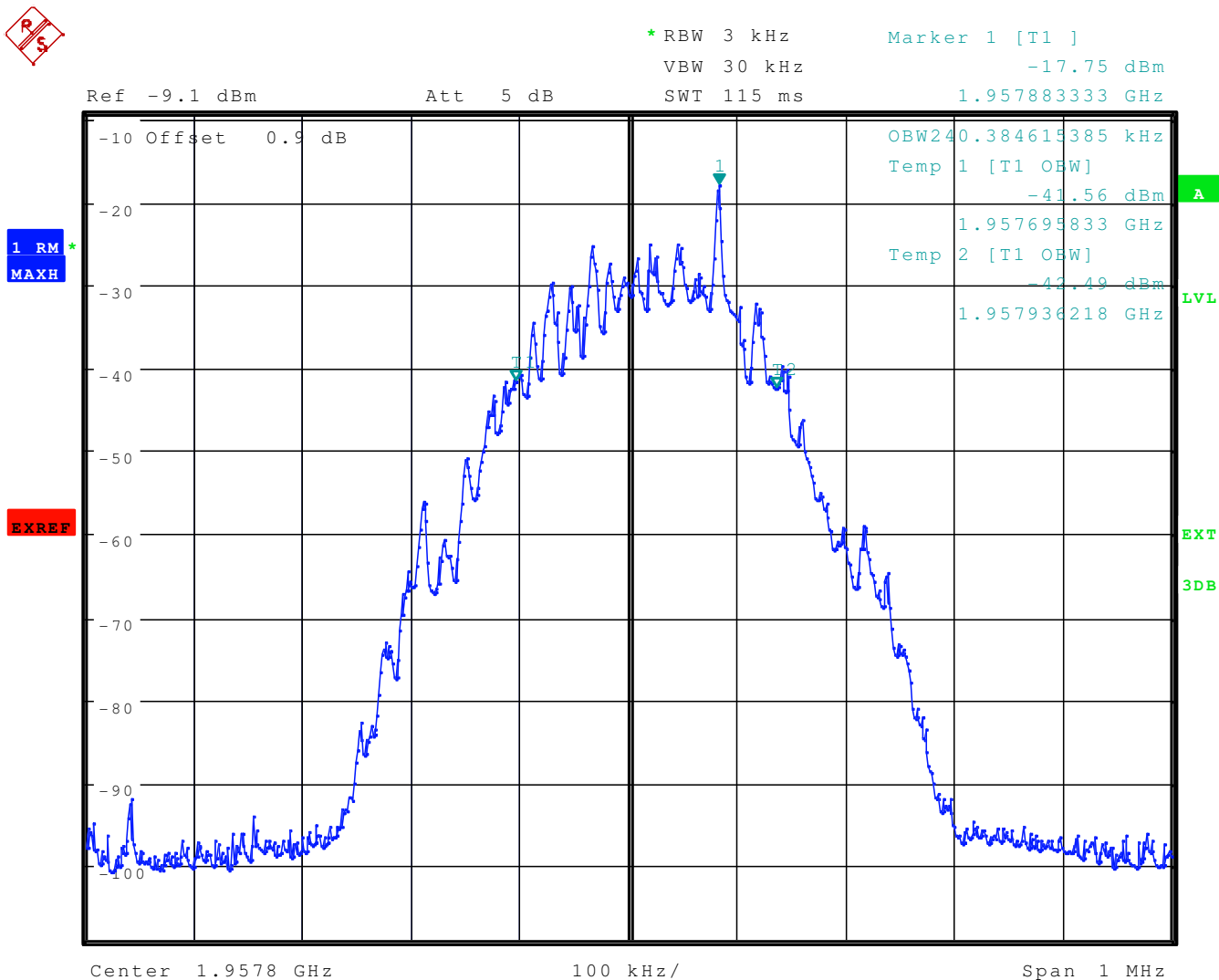
Date: 16.OCT.2008 20:38:44

Table 1.62: ./gsm-patterns/1gsm-d-max-hold-rms-99power-bw.pdf



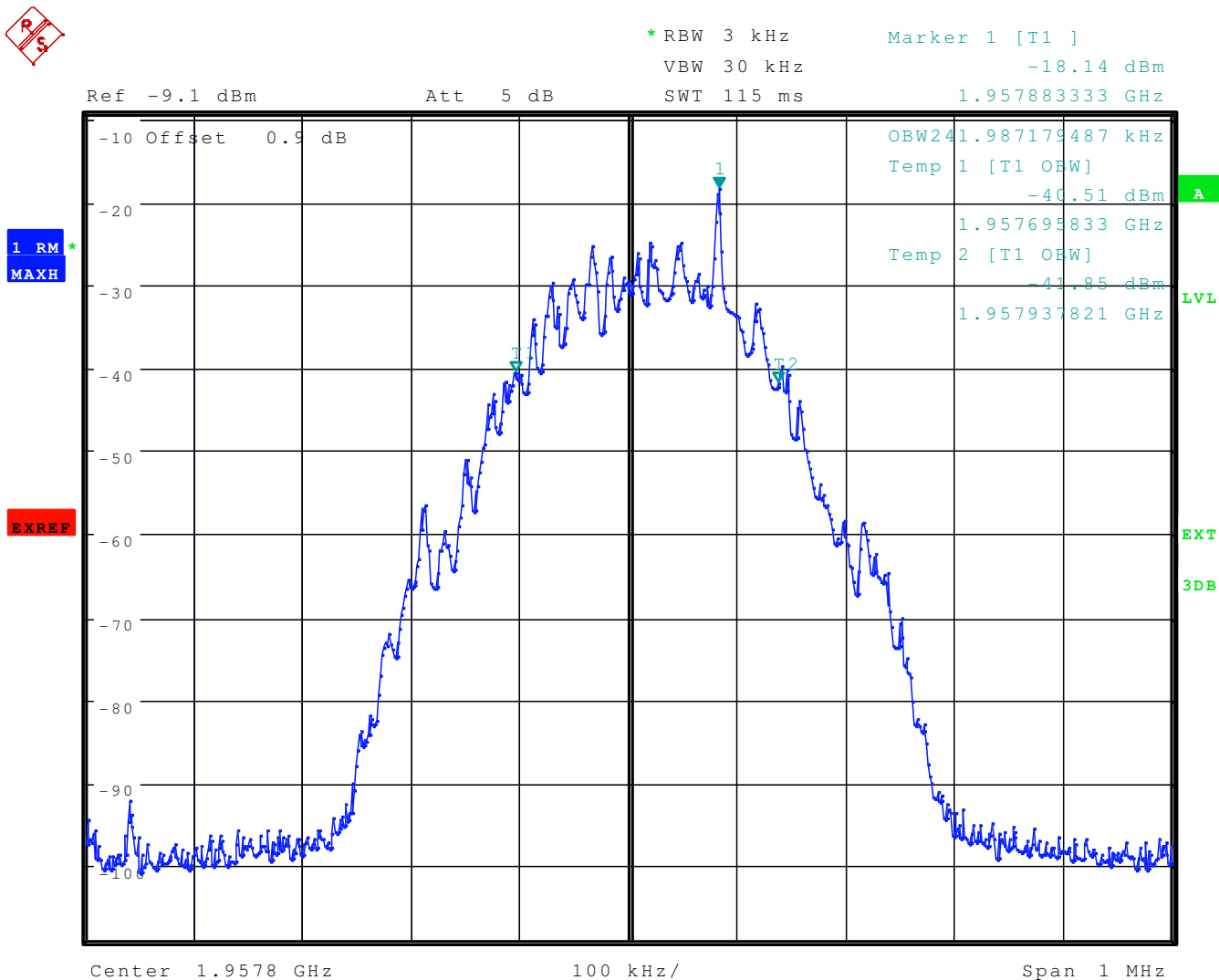
Date: 16.OCT.2008 20:39:55

Table 1.63: ./gsm-patterns/1gsm-e-max-hold-rms-99power-bw.pdf



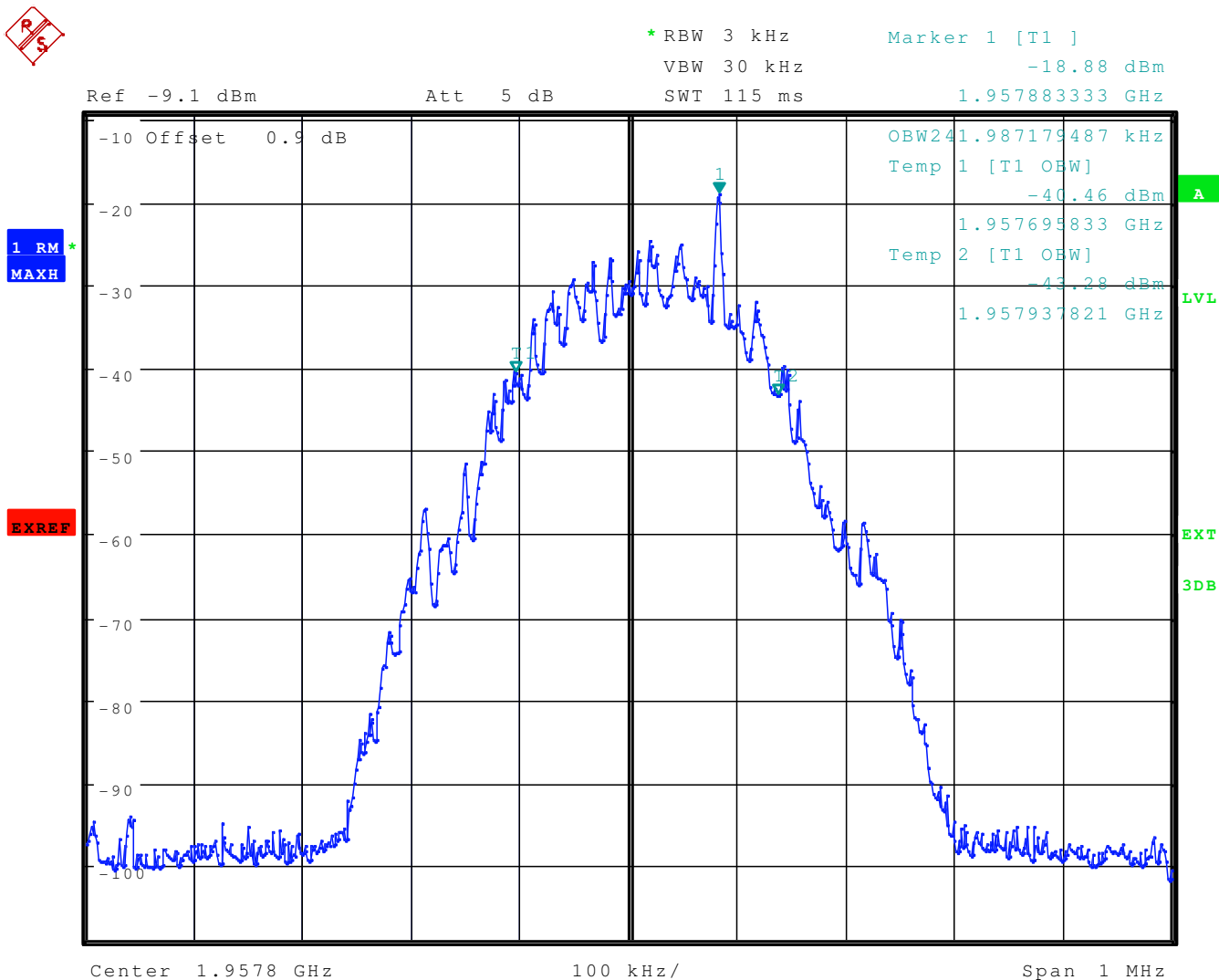
Date: 16.OCT.2008 20:40:57

Table 1.64: ./gsm-patterns/1gsm-f-max-hold-rms-99power-bw.pdf



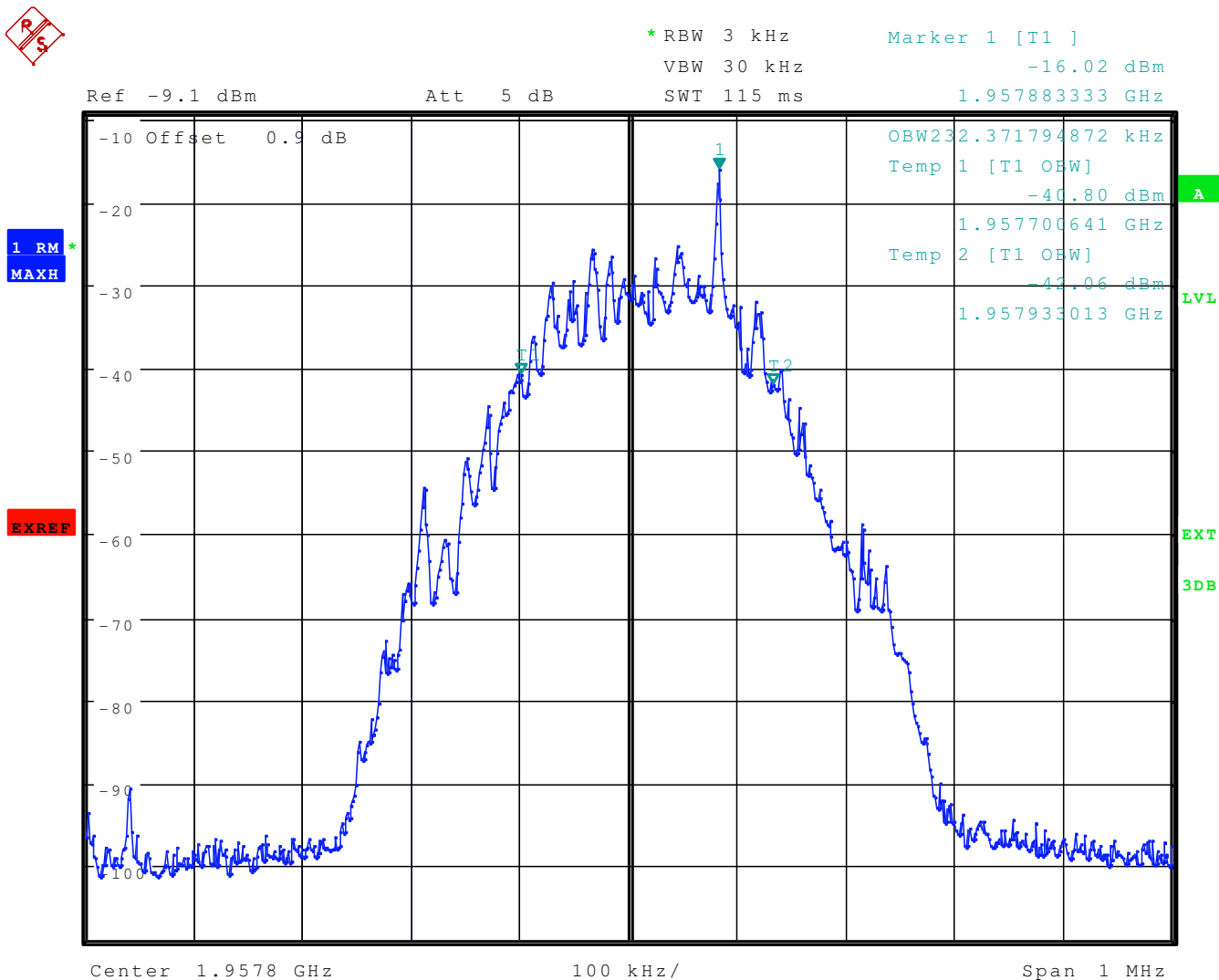
Date: 16.OCT.2008 20:41:40

Table 1.65: ./gsm-patterns/1gsm-g-max-hold-rms-99power-bw.pdf



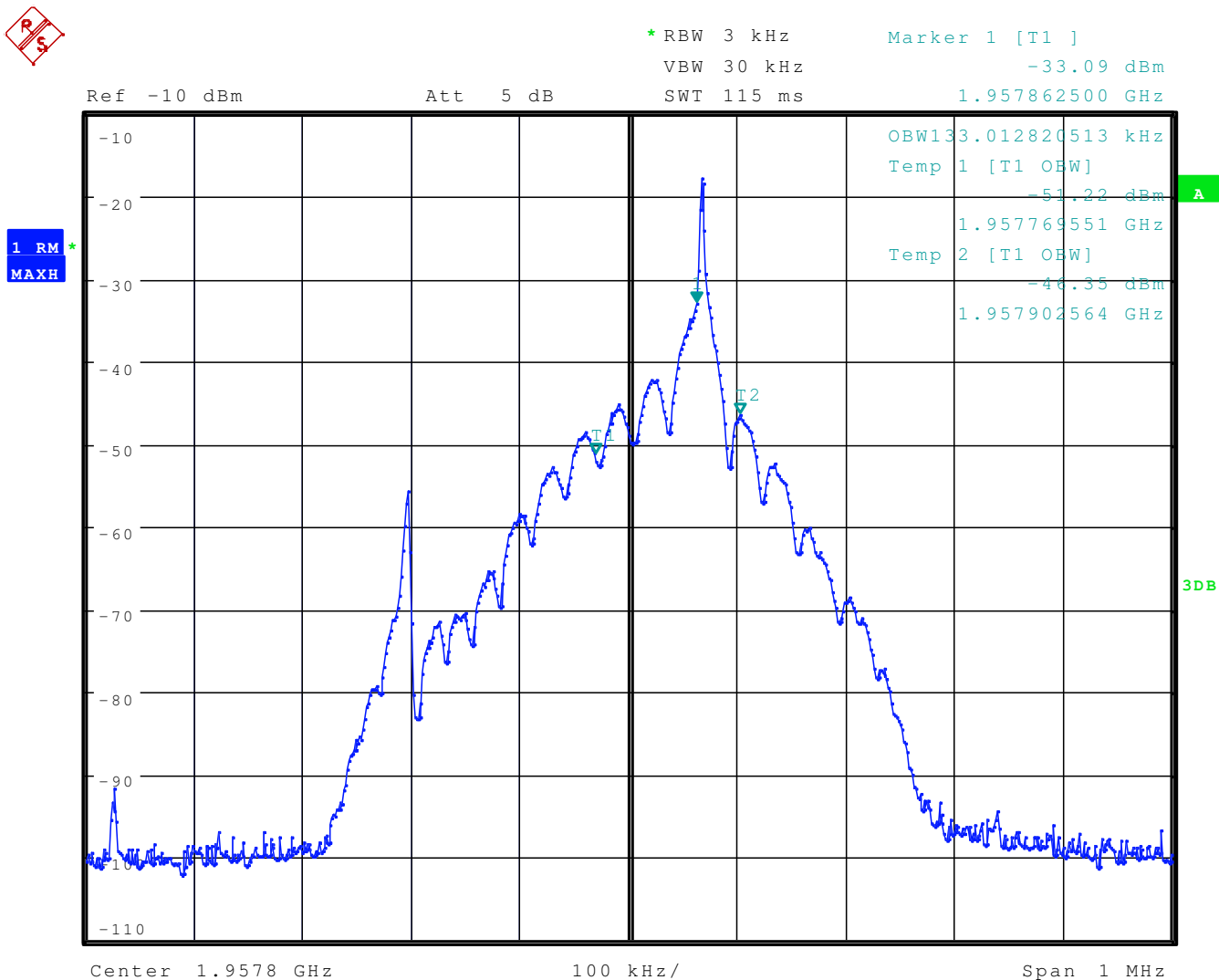
Date: 16.OCT.2008 20:42:18

Table 1.66: ./gsm-patterns/1gsm-h-max-hold-rms-99power-bw.pdf



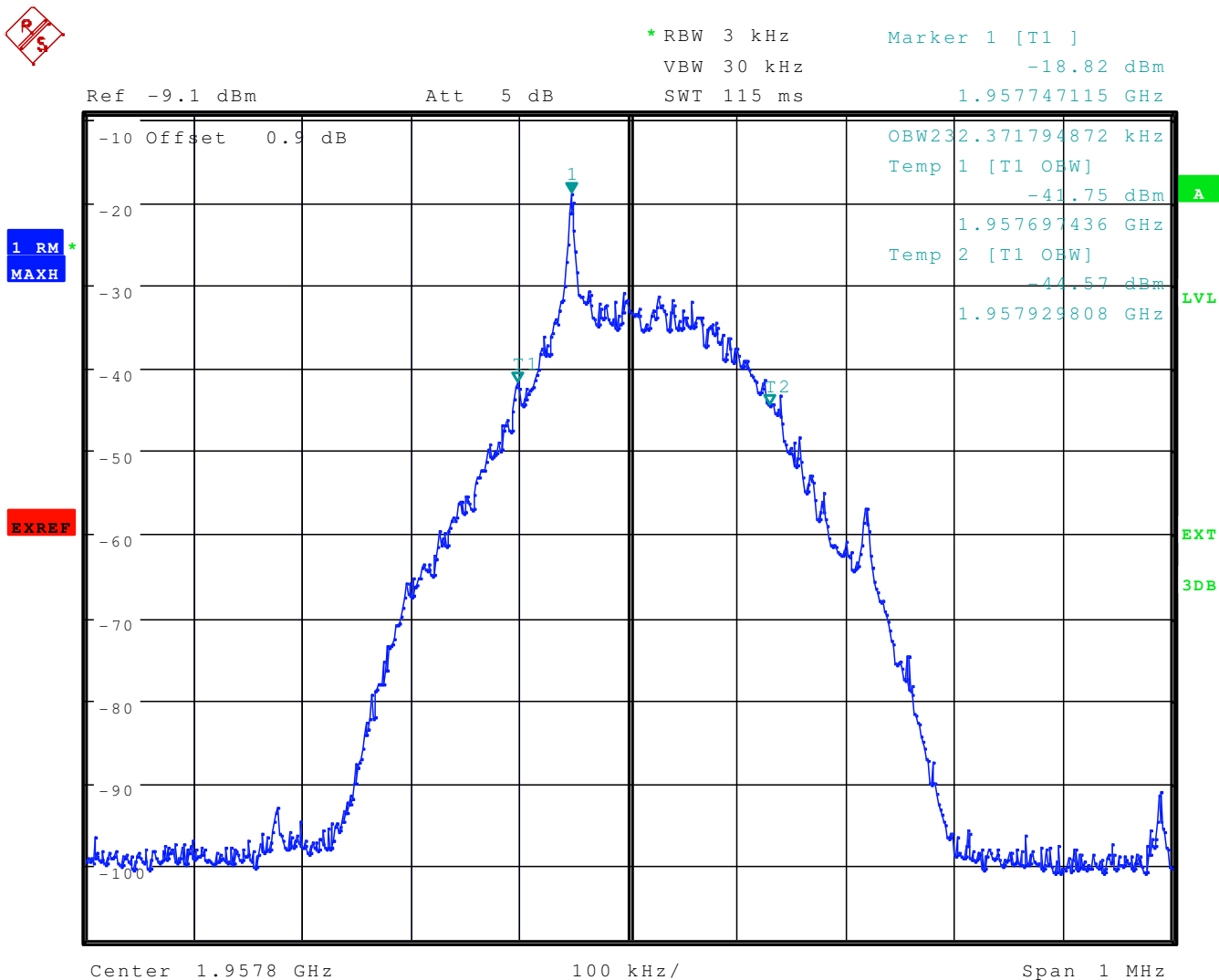
Date: 16.OCT.2008 20:43:03

Table 1.67: ./gsm-patterns/1gsm-i-max-hold-rms-99power-bw.pdf



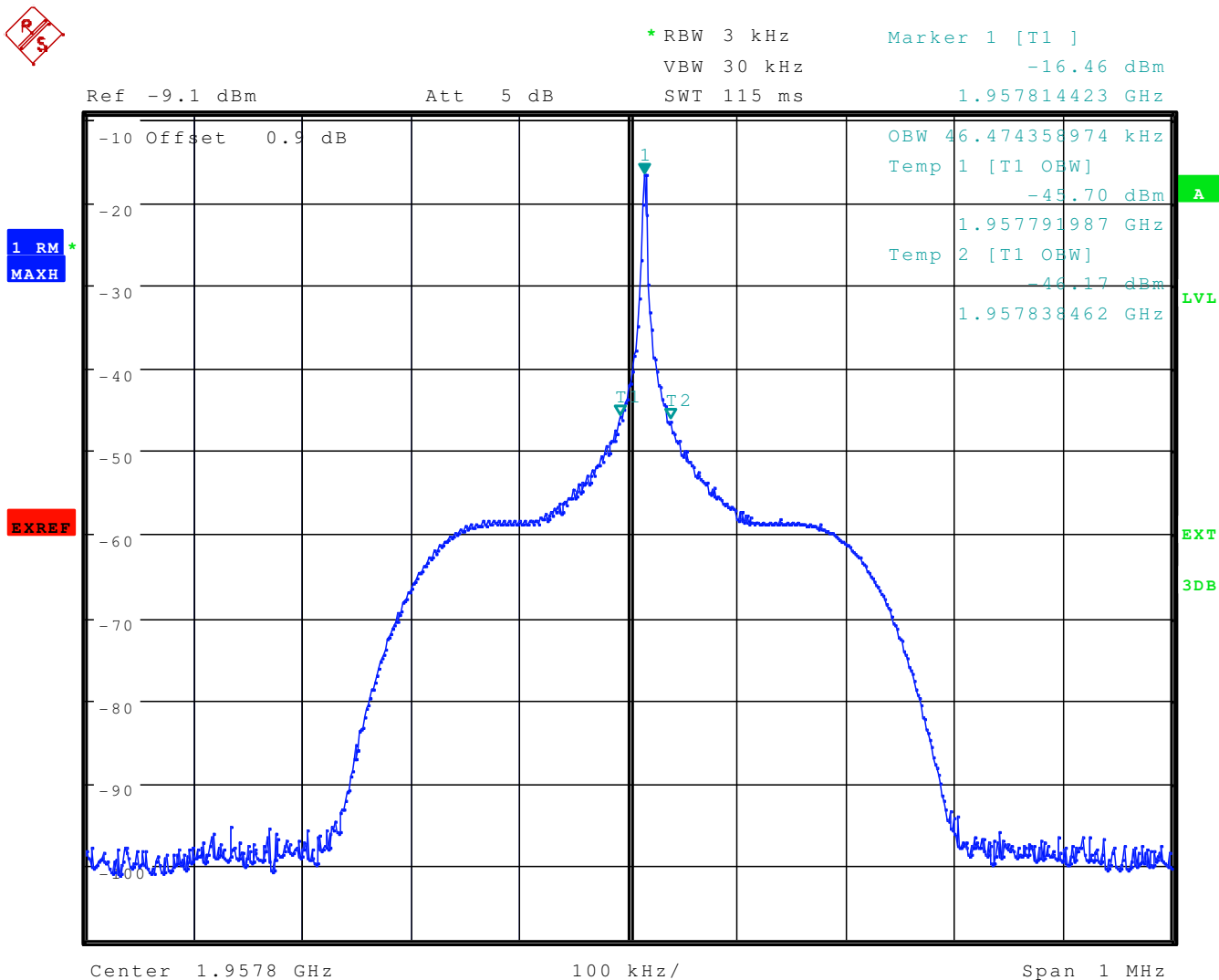
Date: 12.NOV.2008 00:58:22

Table 1.68: ./gsm-patterns/1gsm-j-max-hold-rms-99power-bw.pdf



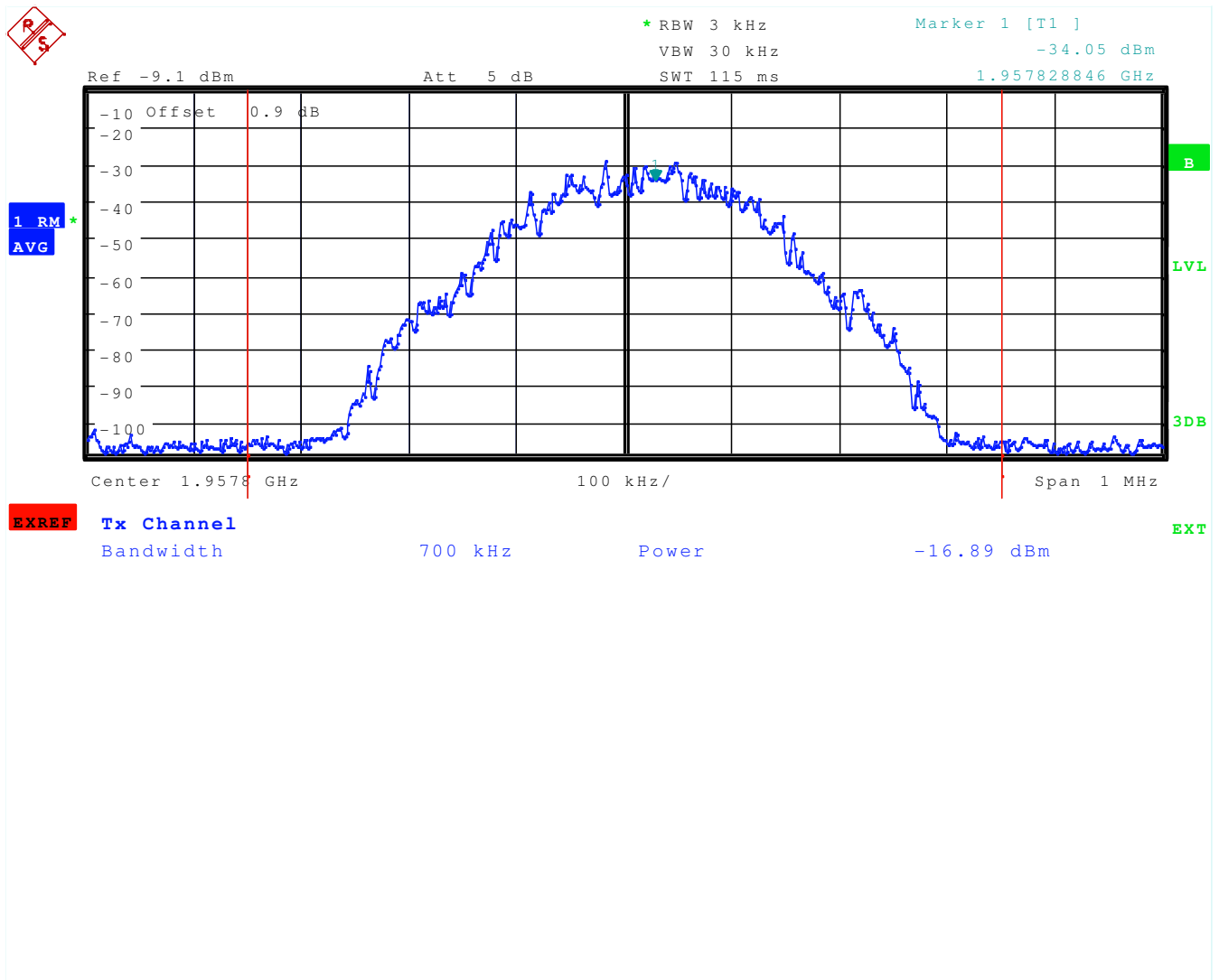
Date: 16.OCT.2008 20:44:52

Table 1.69: ./gsm-patterns/1gsm-k-max-hold-rms-99power-bw.pdf



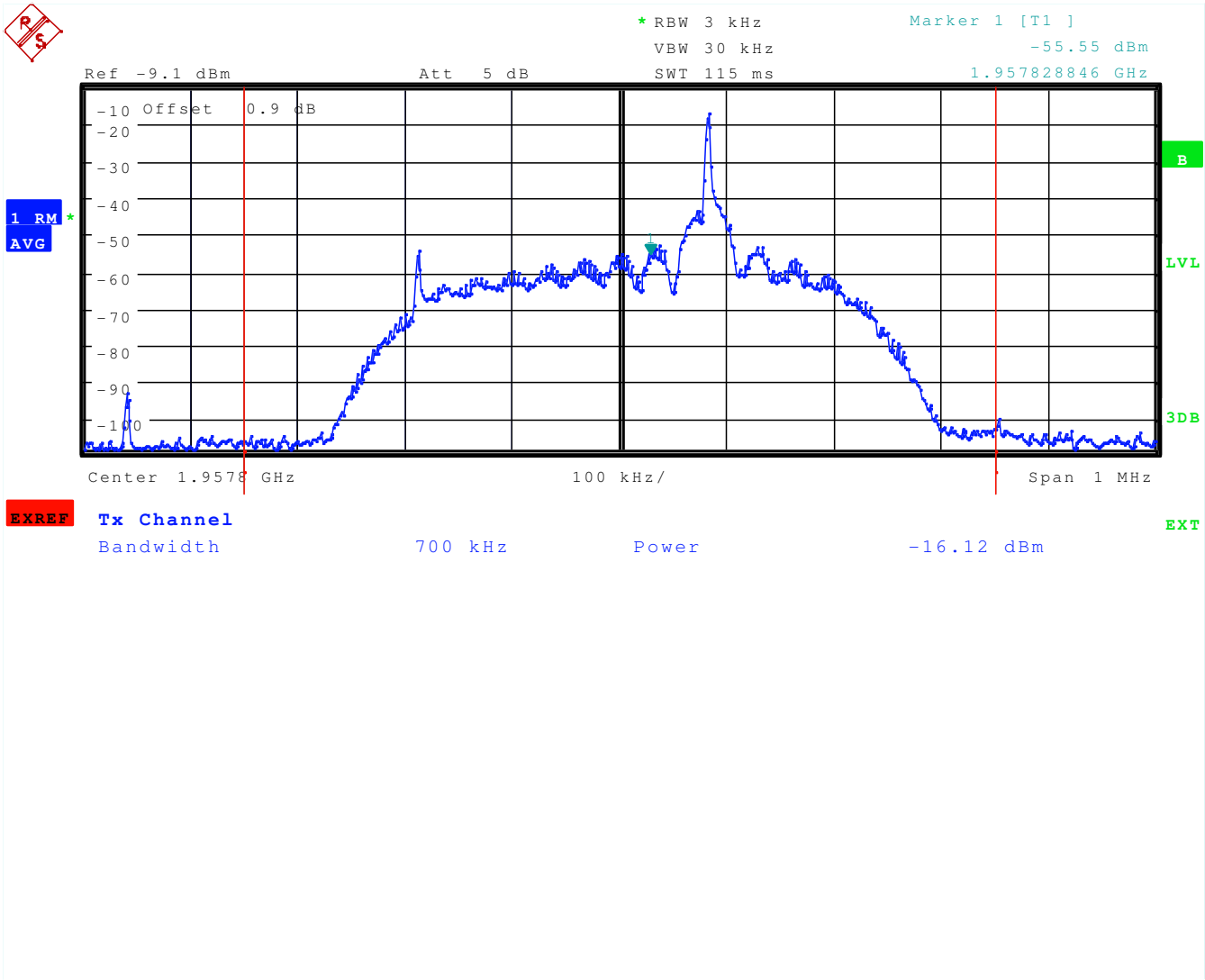
Date: 16.OCT.2008 20:45:39

Table 1.70: ./gsm-patterns/1gsm-a-ave-power.pdf



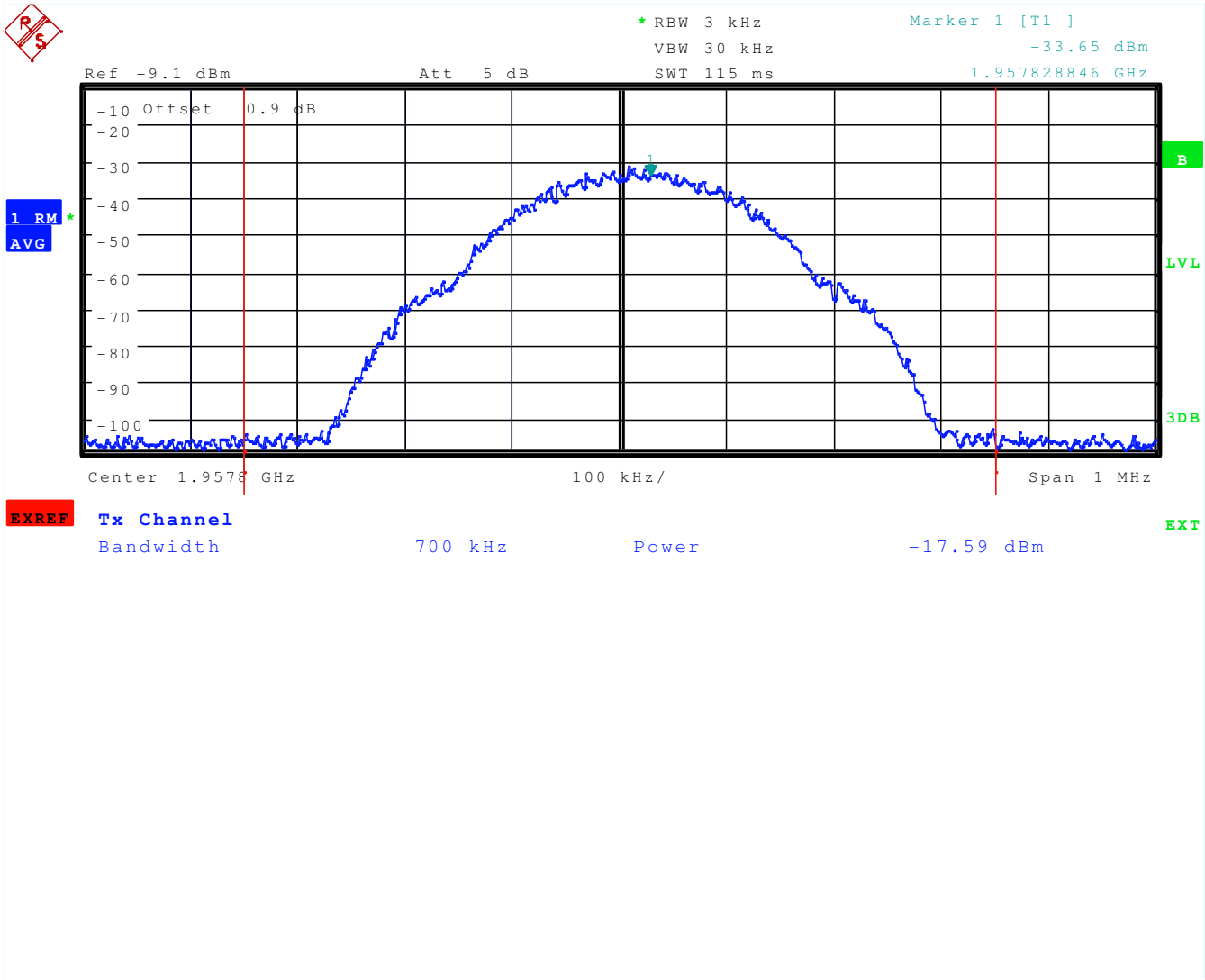
Date: 16.OCT.2008 20:35:54

Table 1.71: ./gsm-patterns/1gsm-b-ave-power.pdf



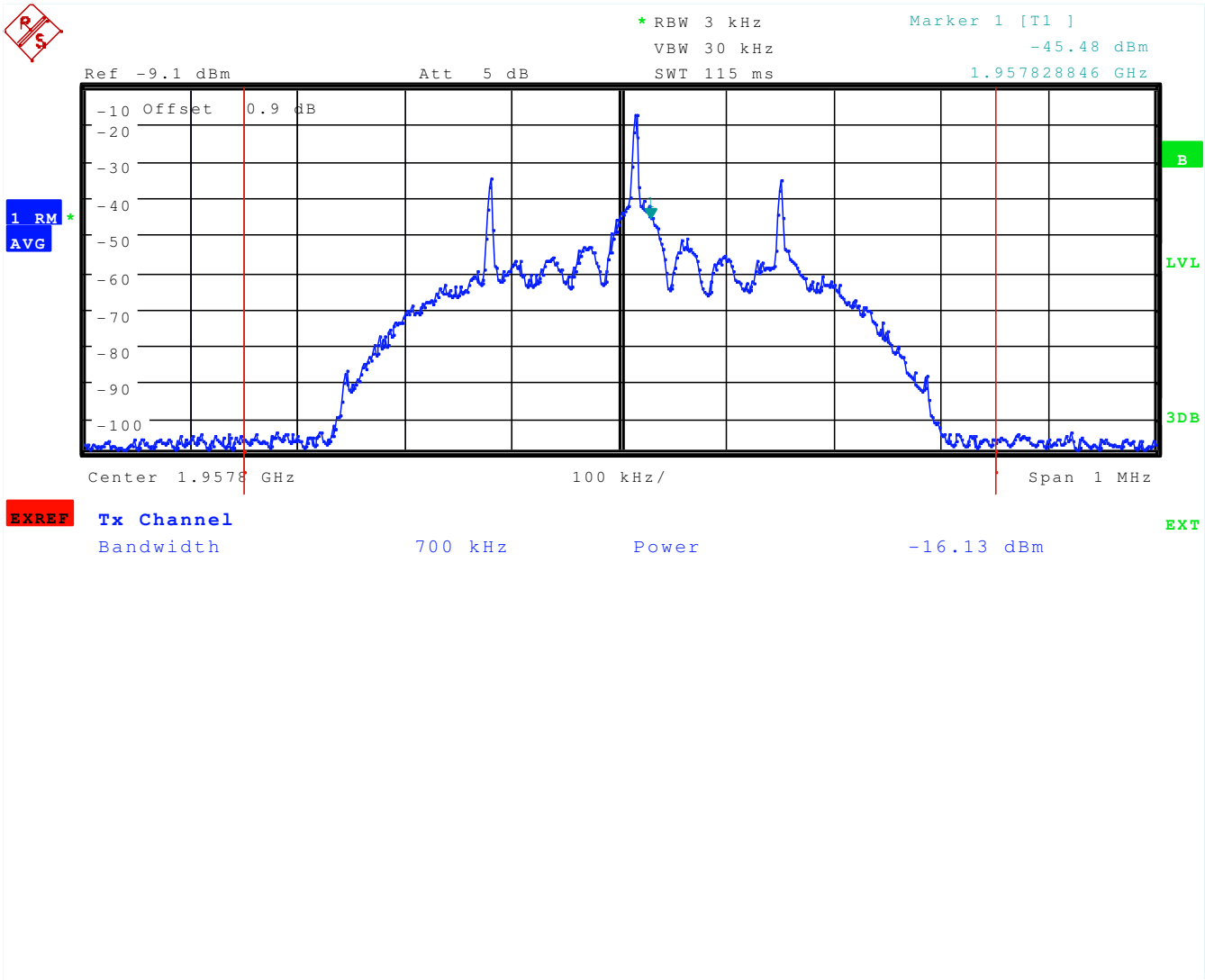
Date: 16.OCT.2008 20:37:45

Table 1.72: ./gsm-patterns/1gsm-c-ave-power.pdf



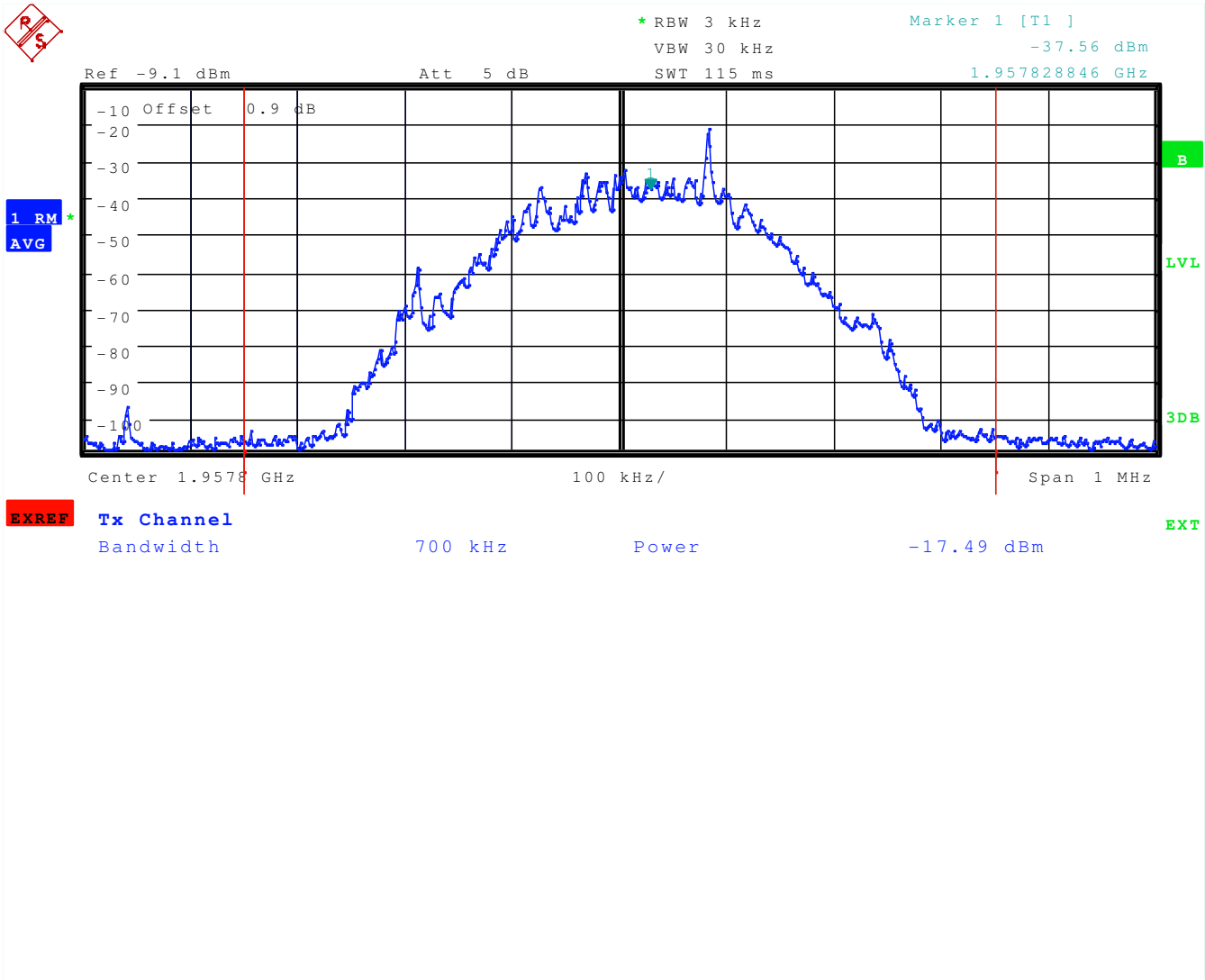
Date: 16.OCT.2008 20:38:59

Table 1.73: ./gsm-patterns/1gsm-d-ave-power.pdf



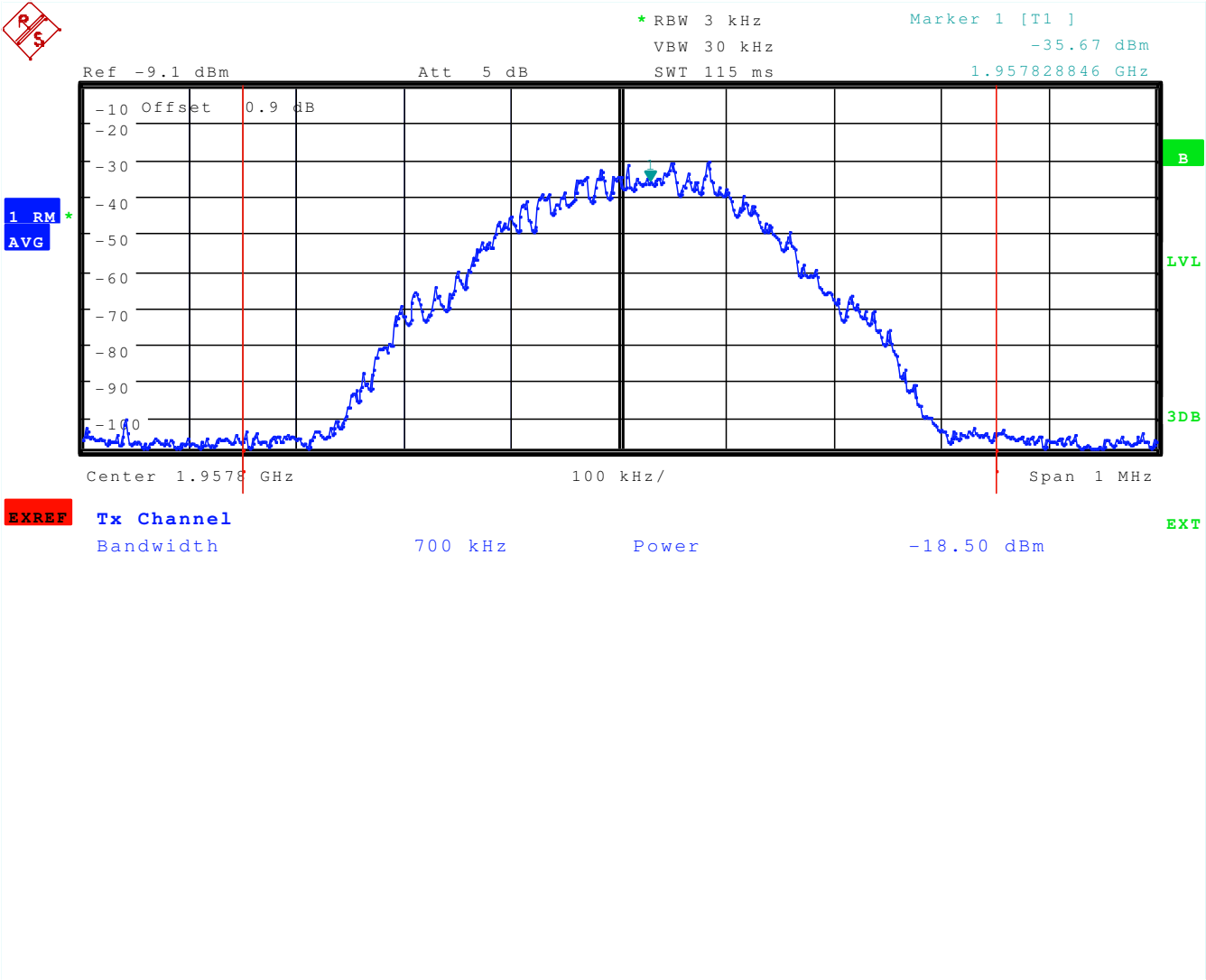
Date: 16.OCT.2008 20:39:28

Table 1.74: ./gsm-patterns/1gsm-e-ave-power.pdf



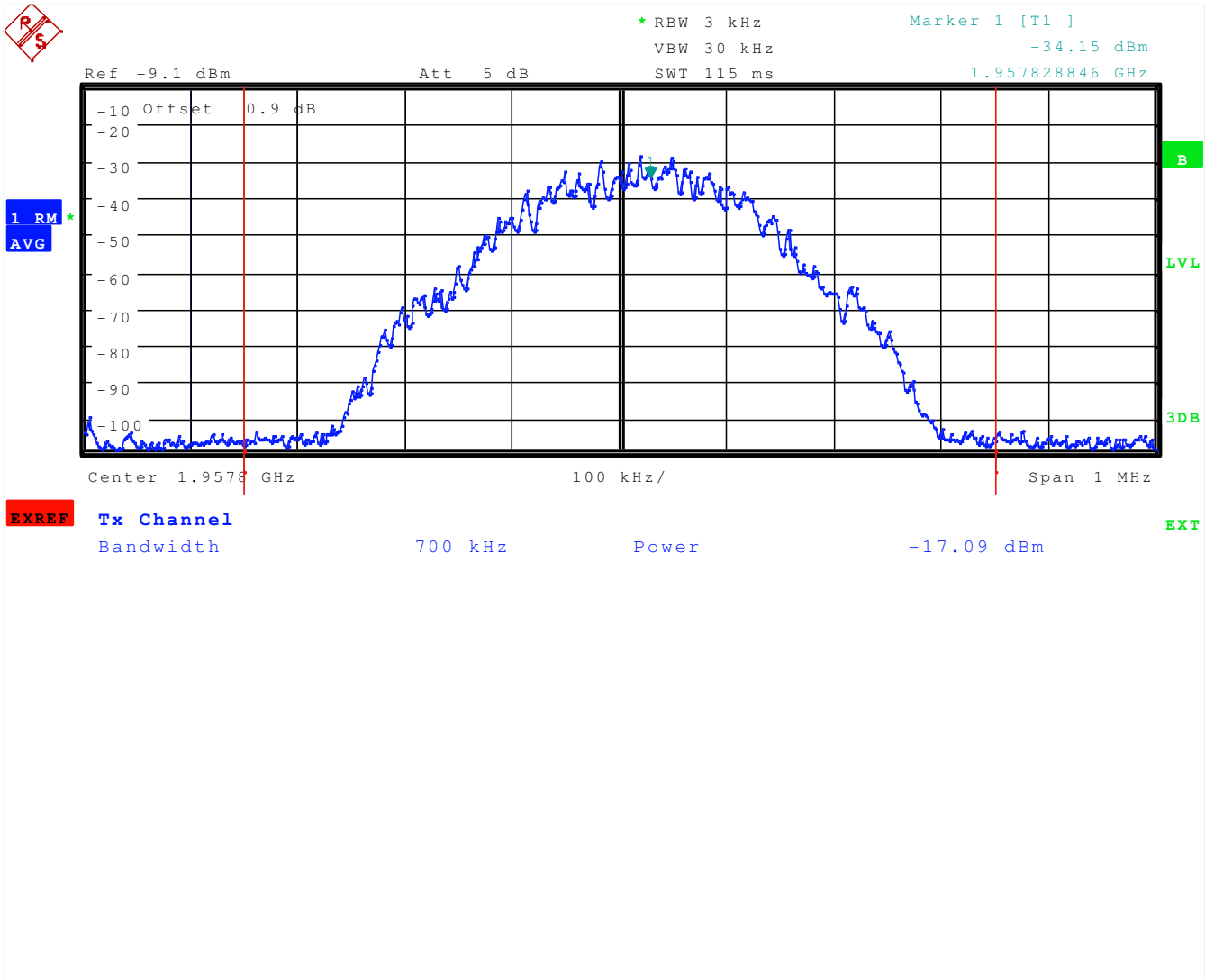
Date: 16.OCT.2008 20:41:09

Table 1.75: ./gsm-patterns/1gsm-f-ave-power.pdf



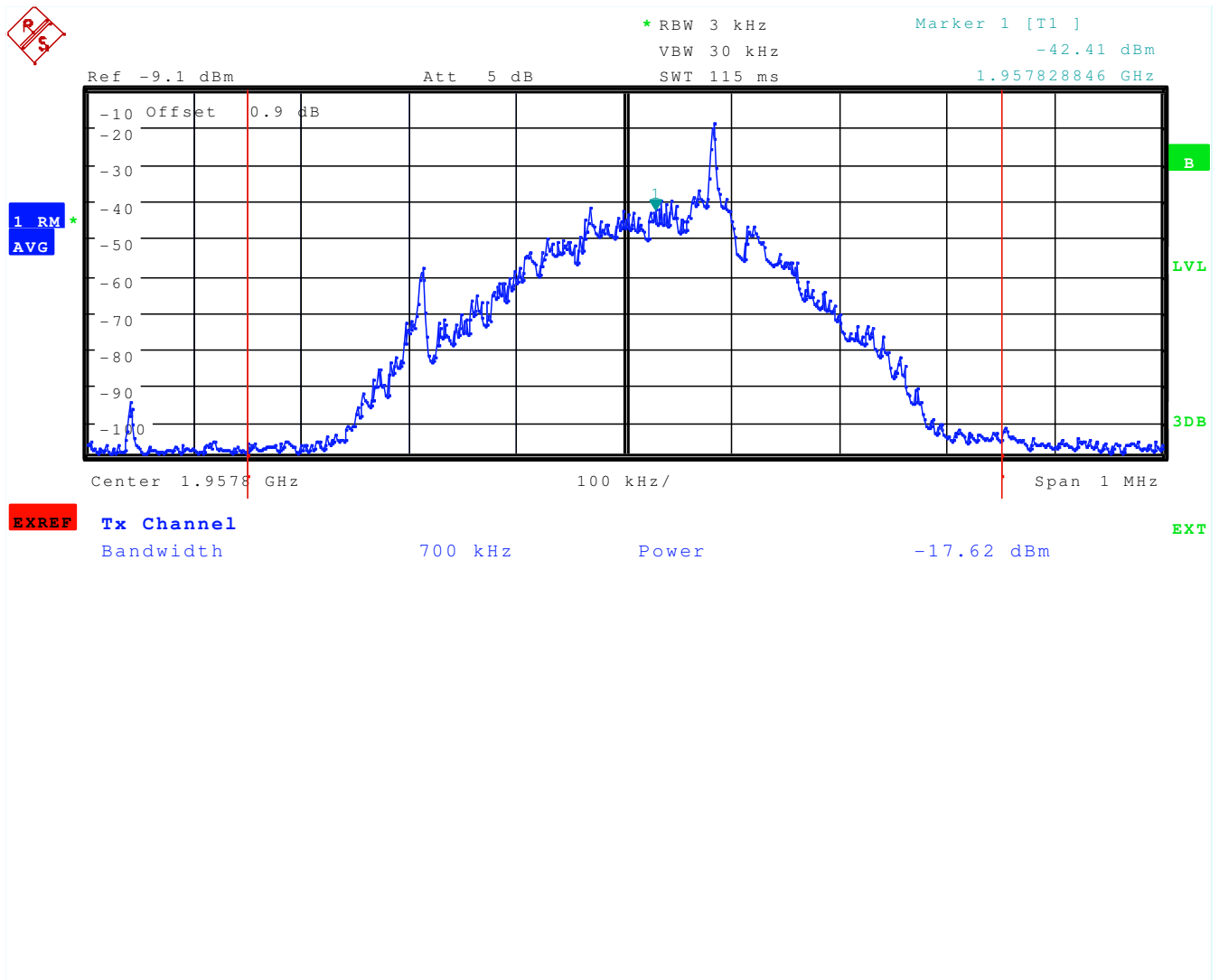
Date: 16.OCT.2008 20:41:53

Table 1.76: ./gsm-patterns/1gsm-g-ave-power.pdf



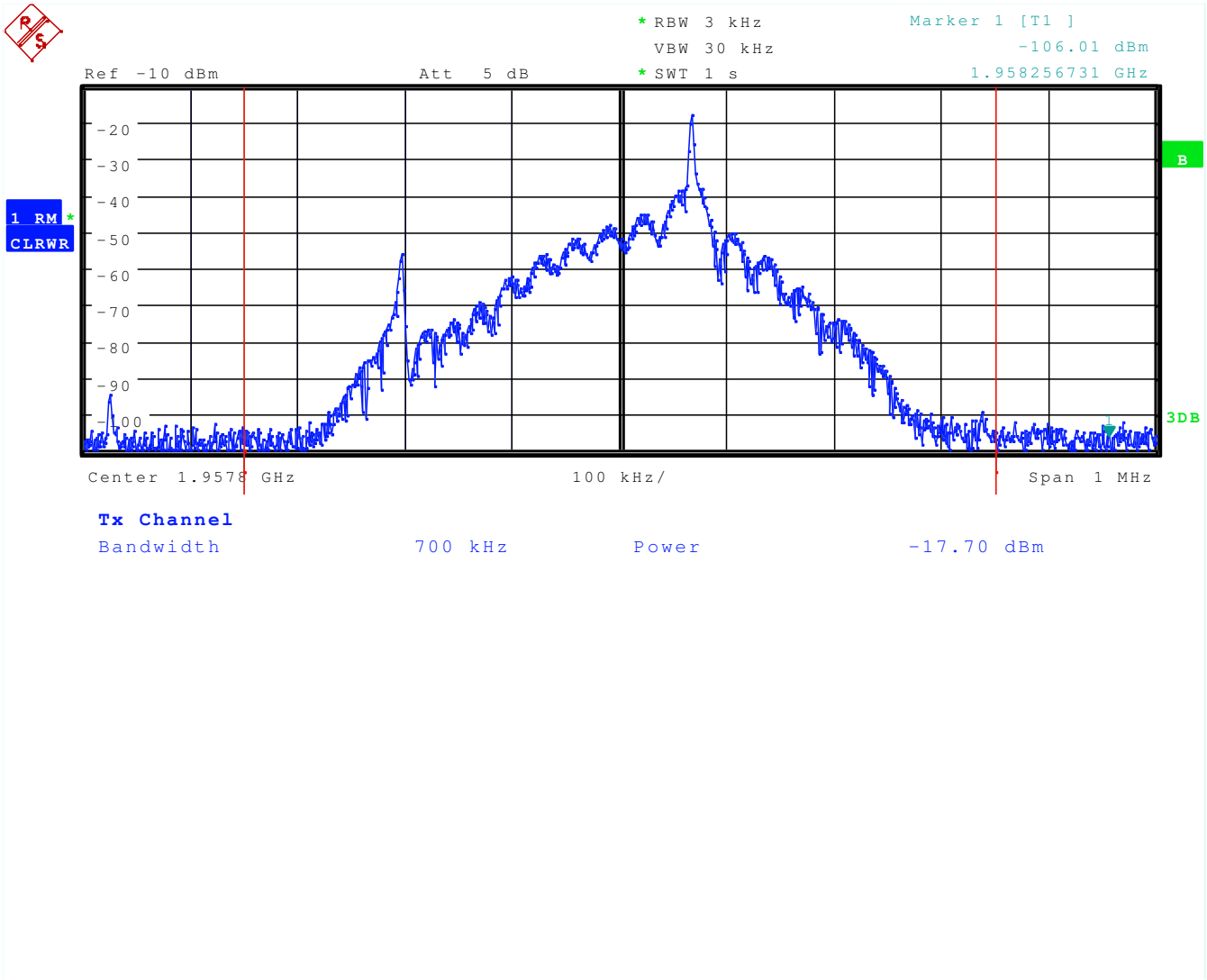
Date: 16.OCT.2008 20:42:30

Table 1.77: ./gsm-patterns/1gsm-h-ave-power.pdf



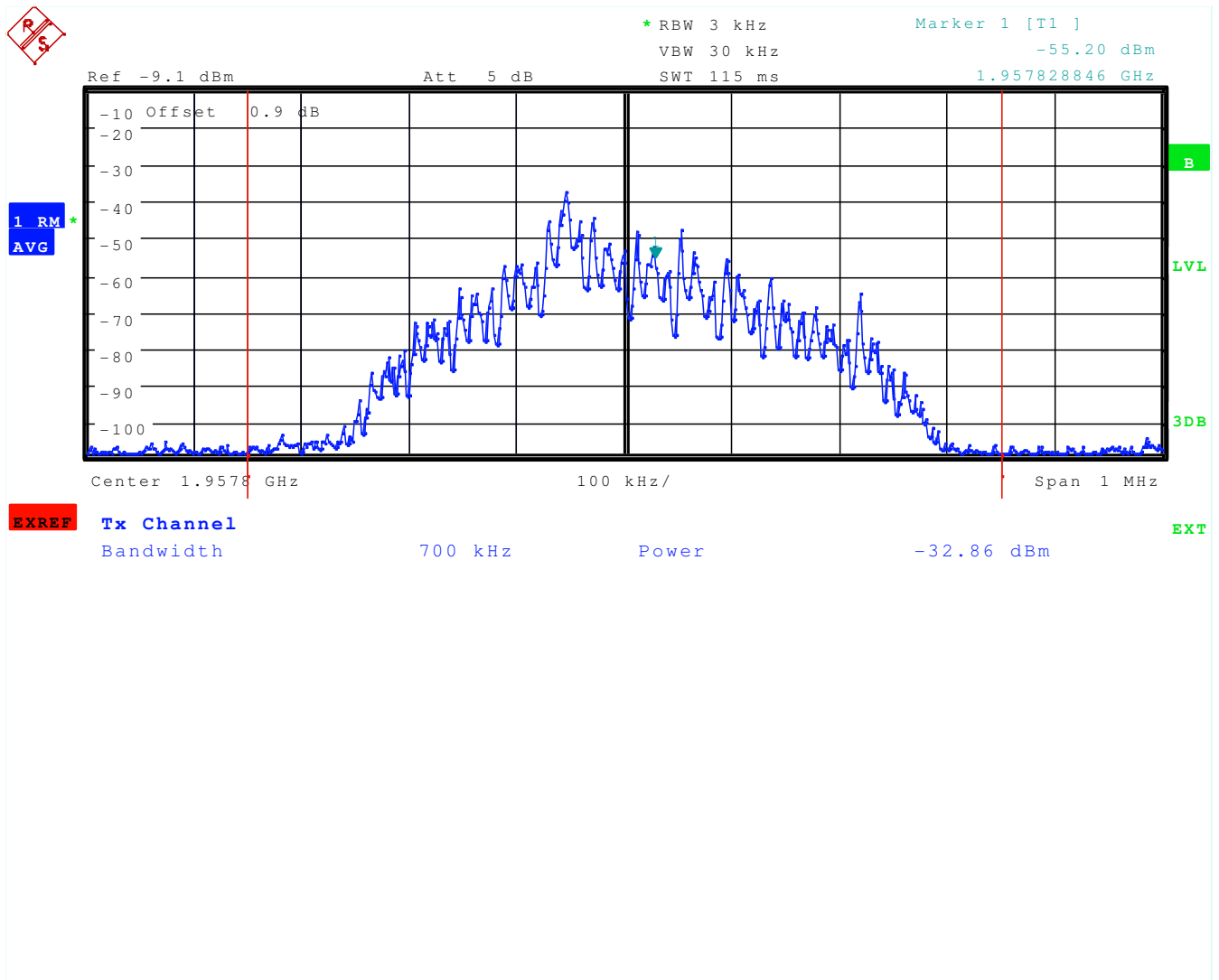
Date: 16.OCT.2008 20:43:31

Table 1.78: ./gsm-patterns/1gsm-i-ave-power.pdf



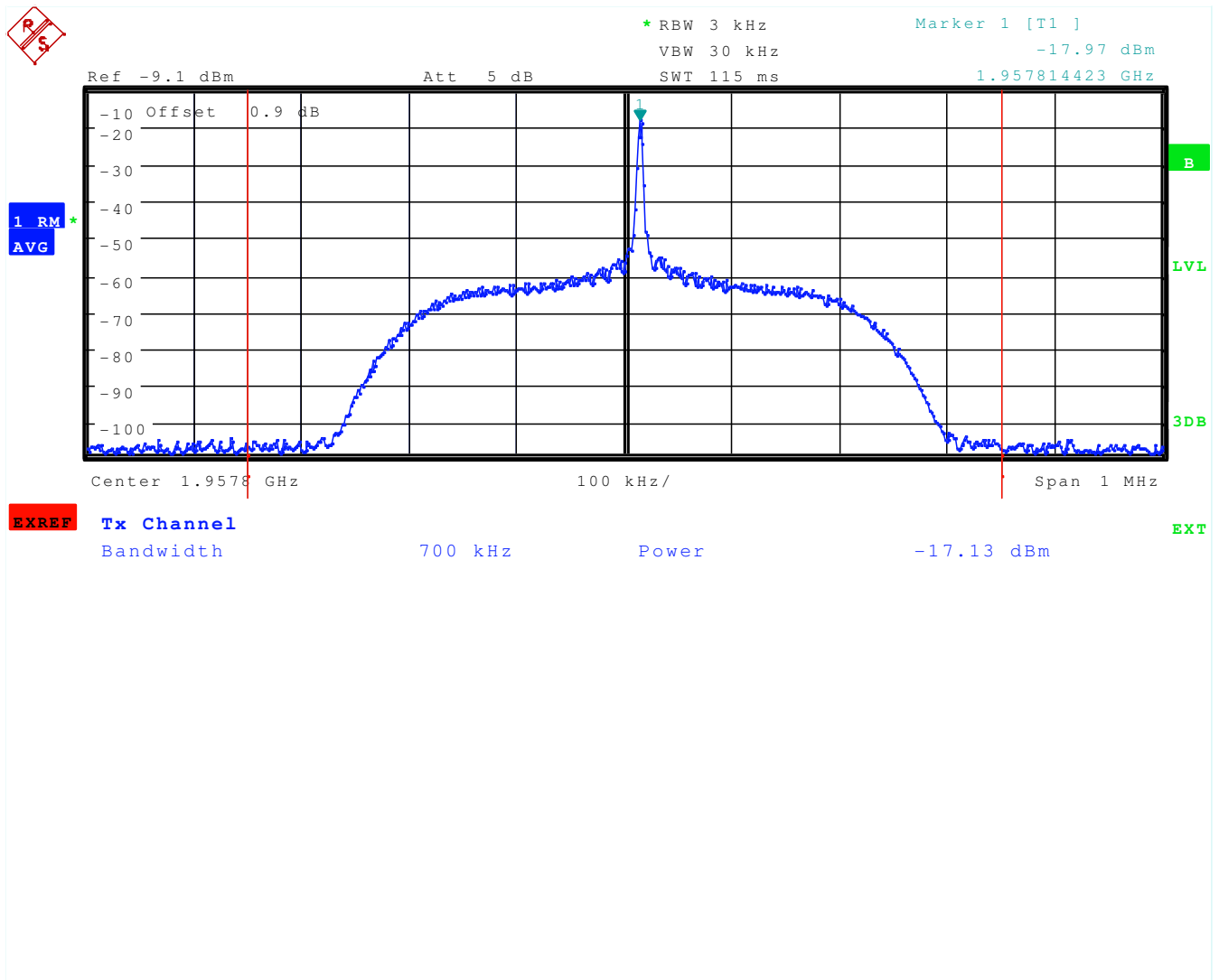
Date: 12.NOV.2008 00:57:36

Table 1.79: ./gsm-patterns/1gsm-j-ave-power.pdf



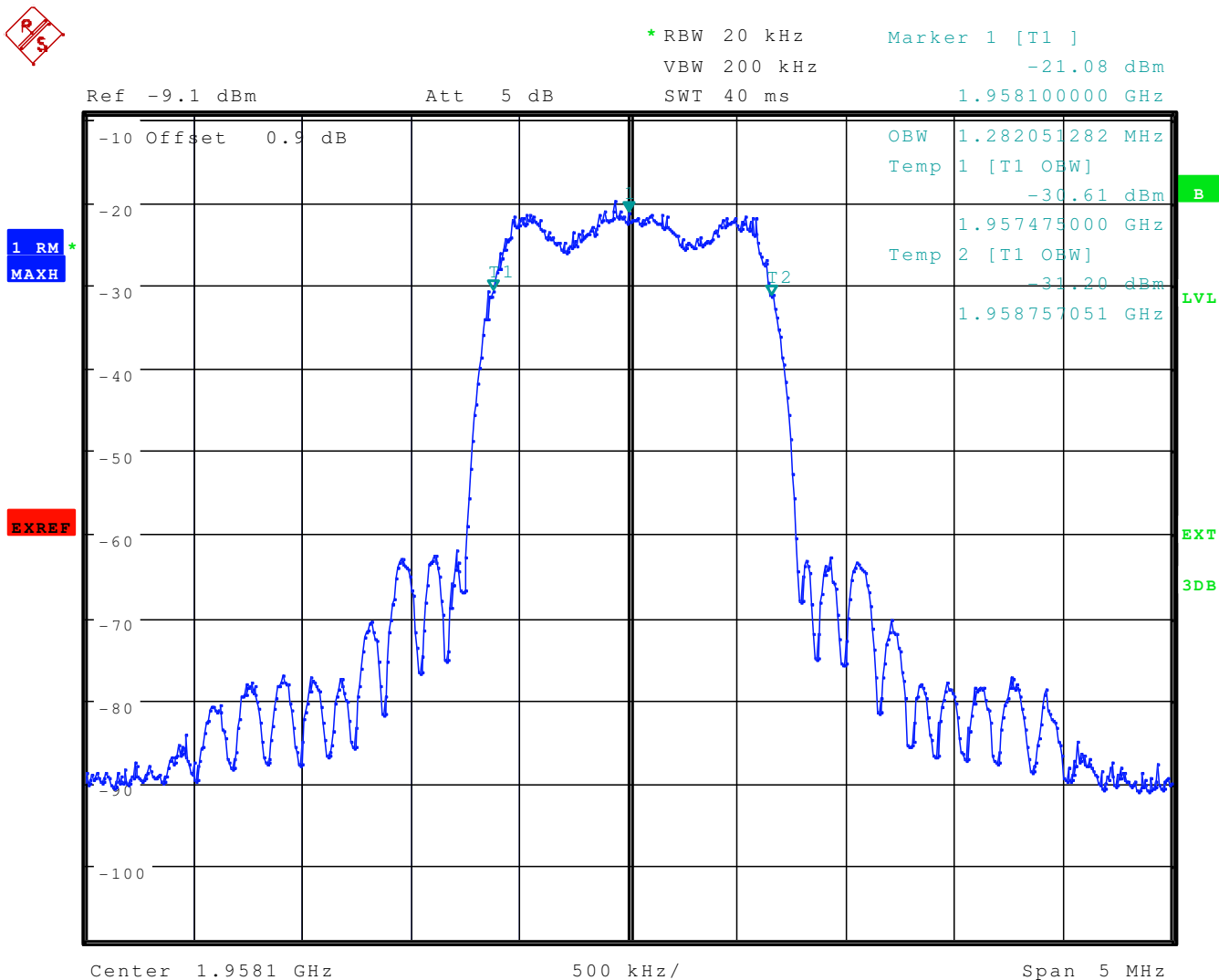
Date: 16.OCT.2008 20:45:05

Table 1.80: ./gsm-patterns/1gsm-k-ave-power.pdf



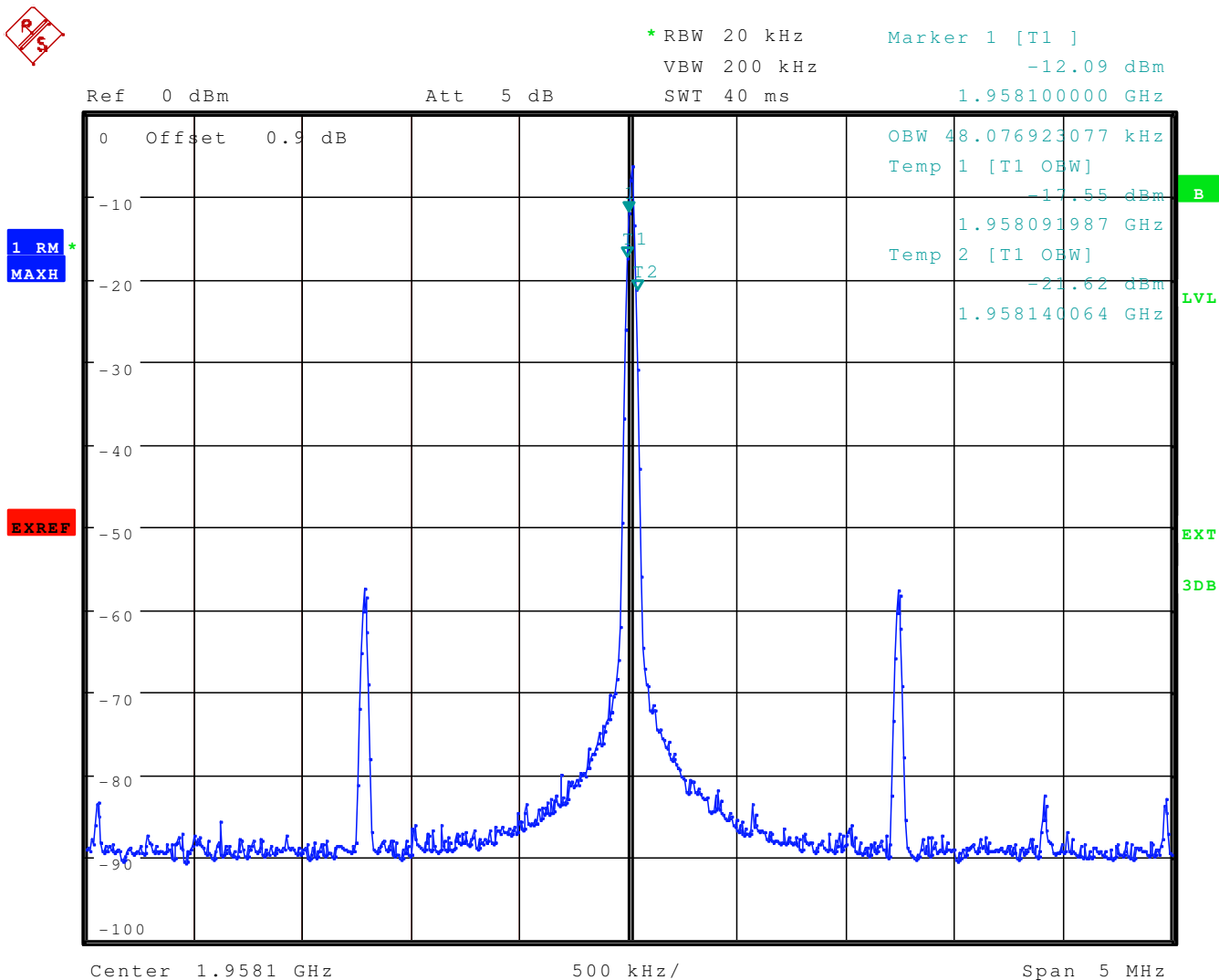
Date: 16.OCT.2008 20:46:01

Table 1.81: ./cdma-patterns/cdma-pattern-a-max-hold-occ-bw.pdf



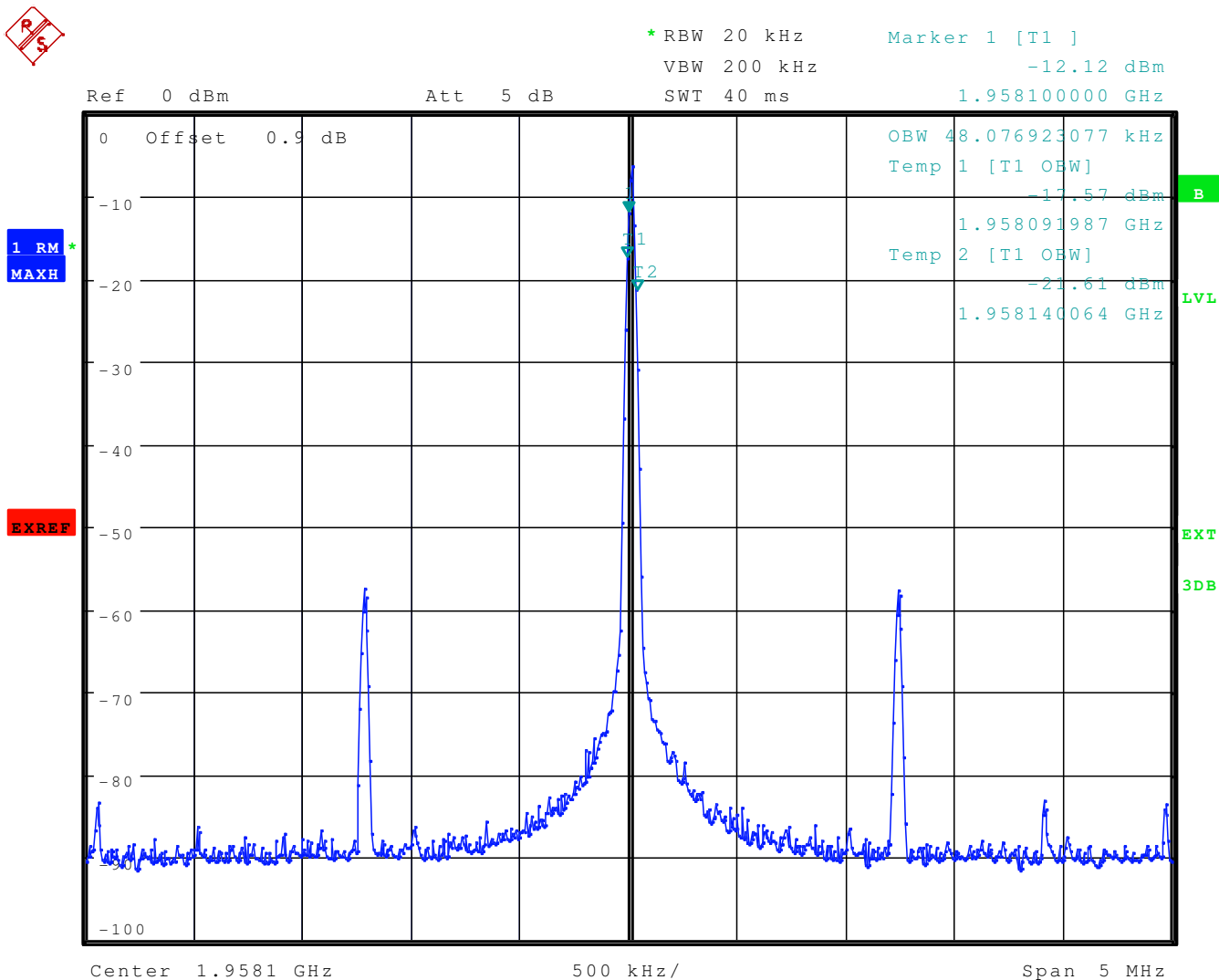
Date: 18.OCT.2008 13:58:21

Table 1.82: ./cdma-patterns/cdma-pattern-b-max-hold-occ-bw.pdf



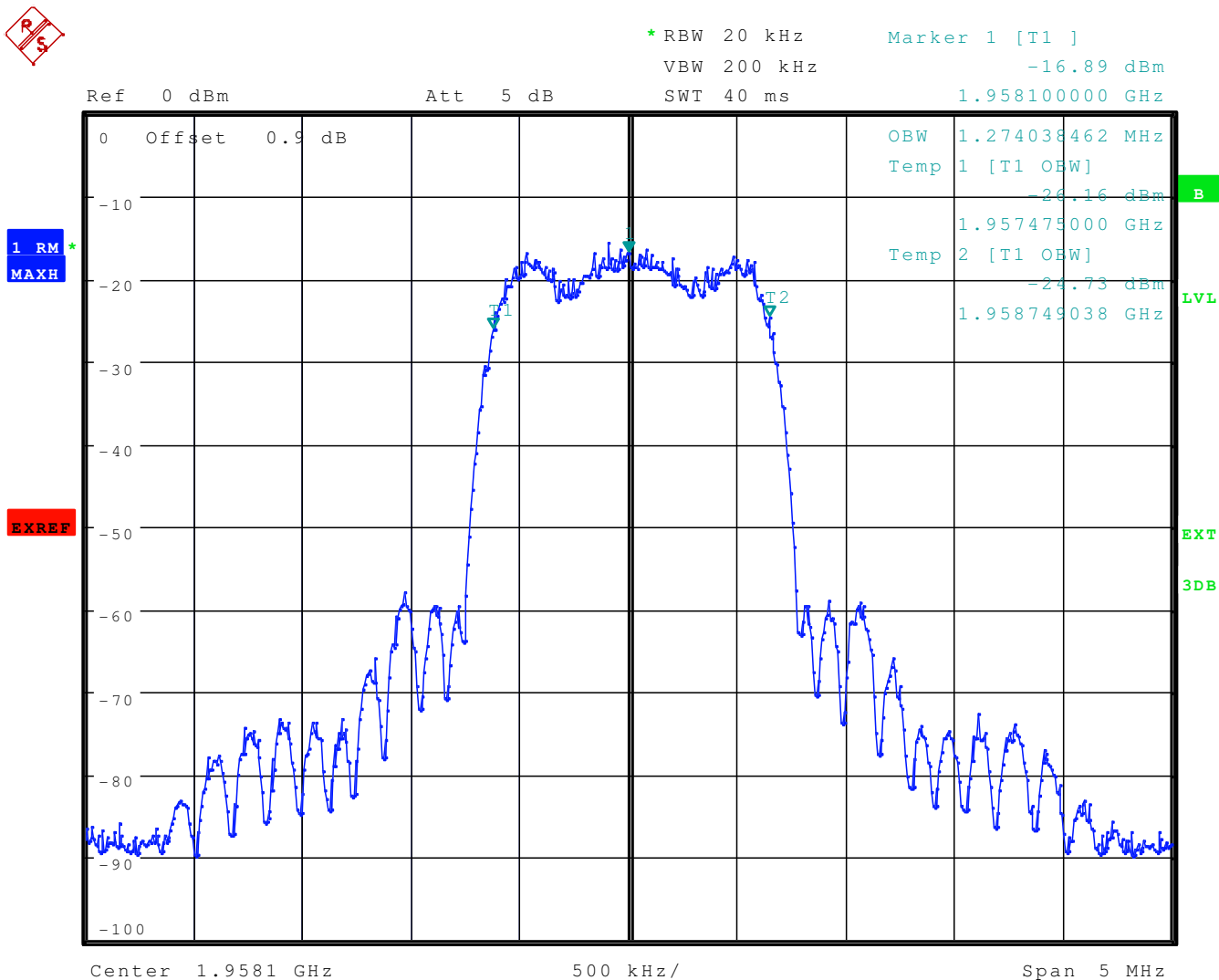
Date: 18.OCT.2008 14:00:11

Table 1.83: ./cdma-patterns/cdma-pattern-c-max-hold-occ-bw.pdf



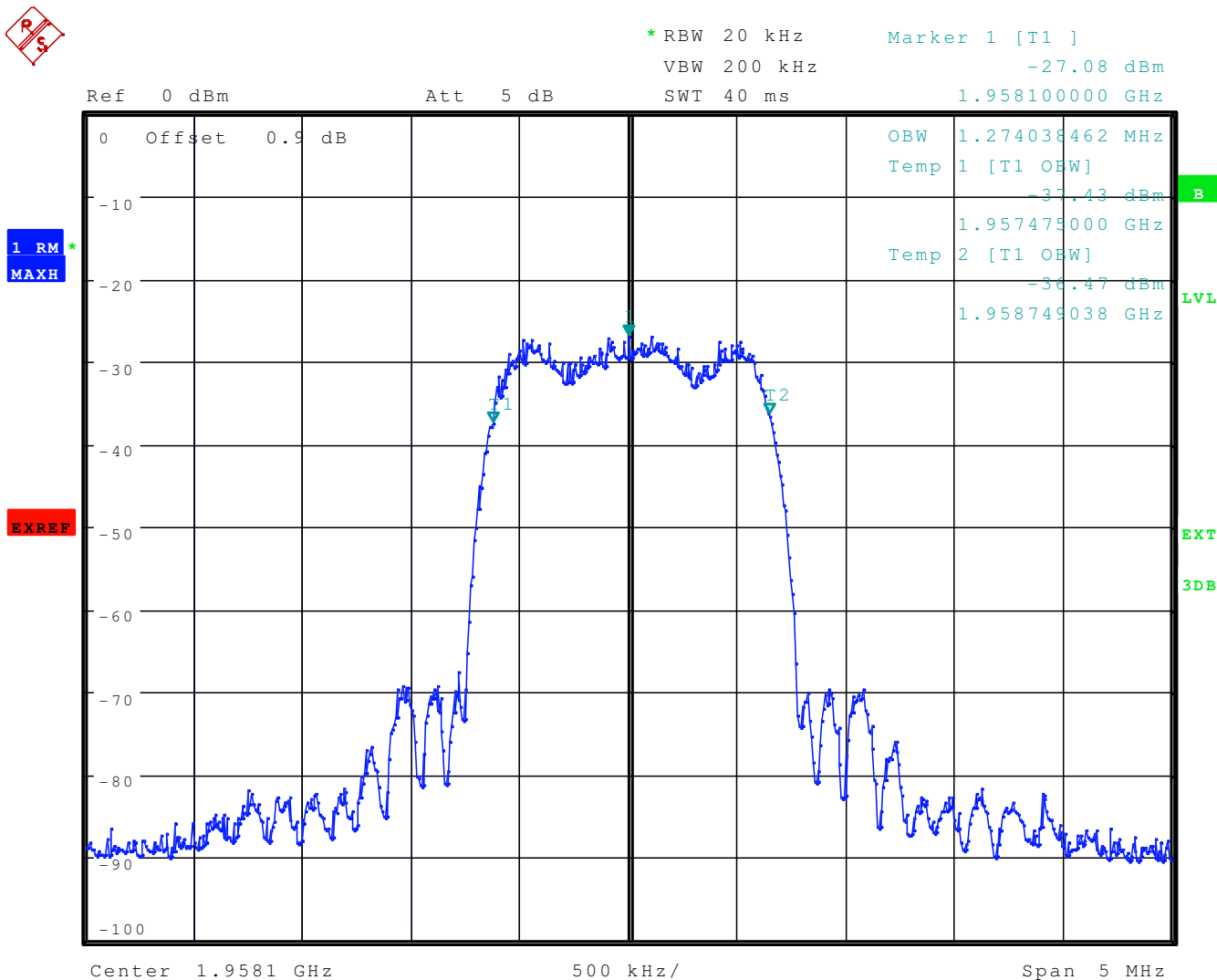
Date: 18.OCT.2008 14:01:09

Table 1.84: ./cdma-patterns/cdma-pattern-d-max-hold-occ-bw.pdf



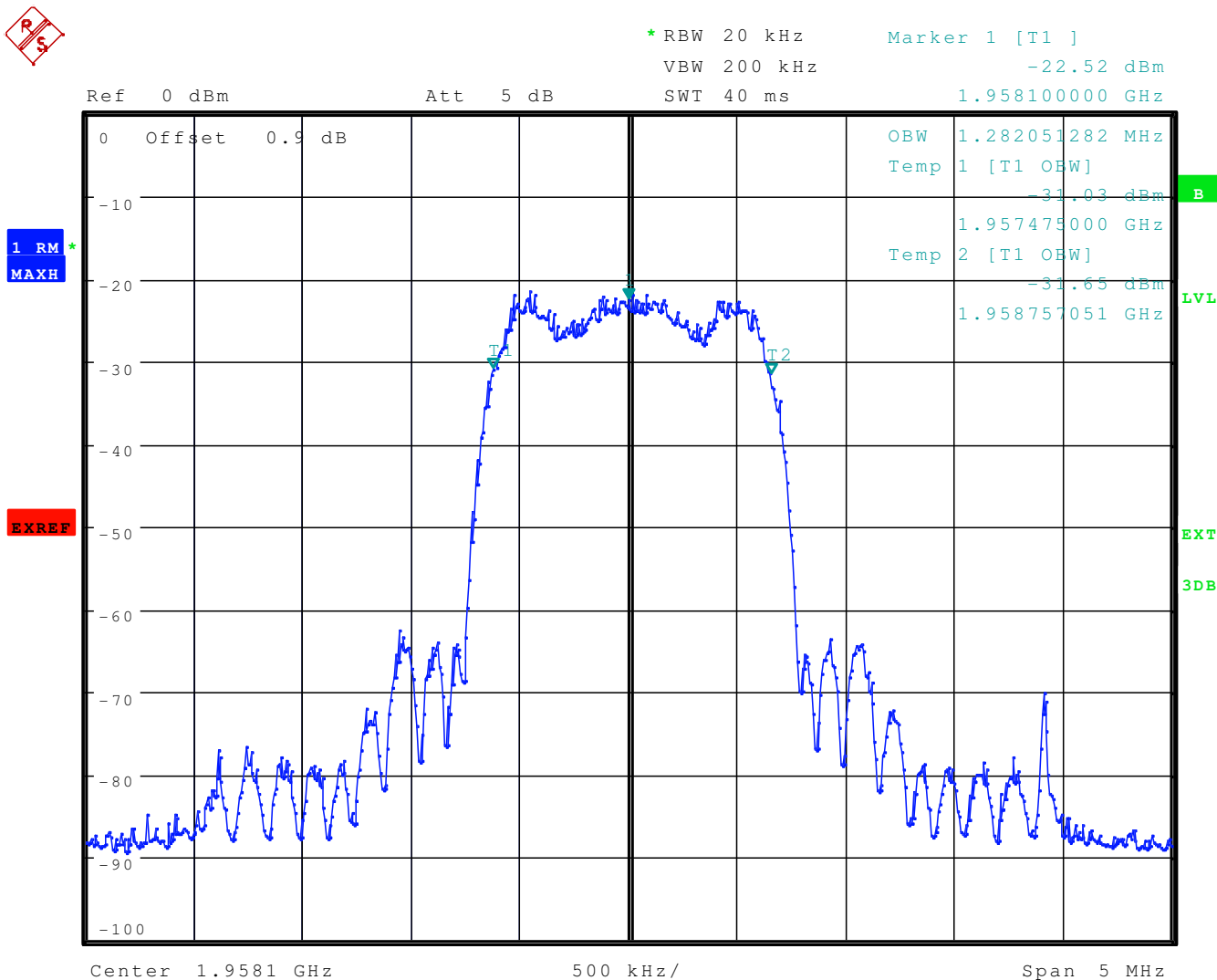
Date: 18.OCT.2008 14:03:12

Table 1.85: ./cdma-patterns/cdma-pattern-e-max-hold-occ-bw.pdf



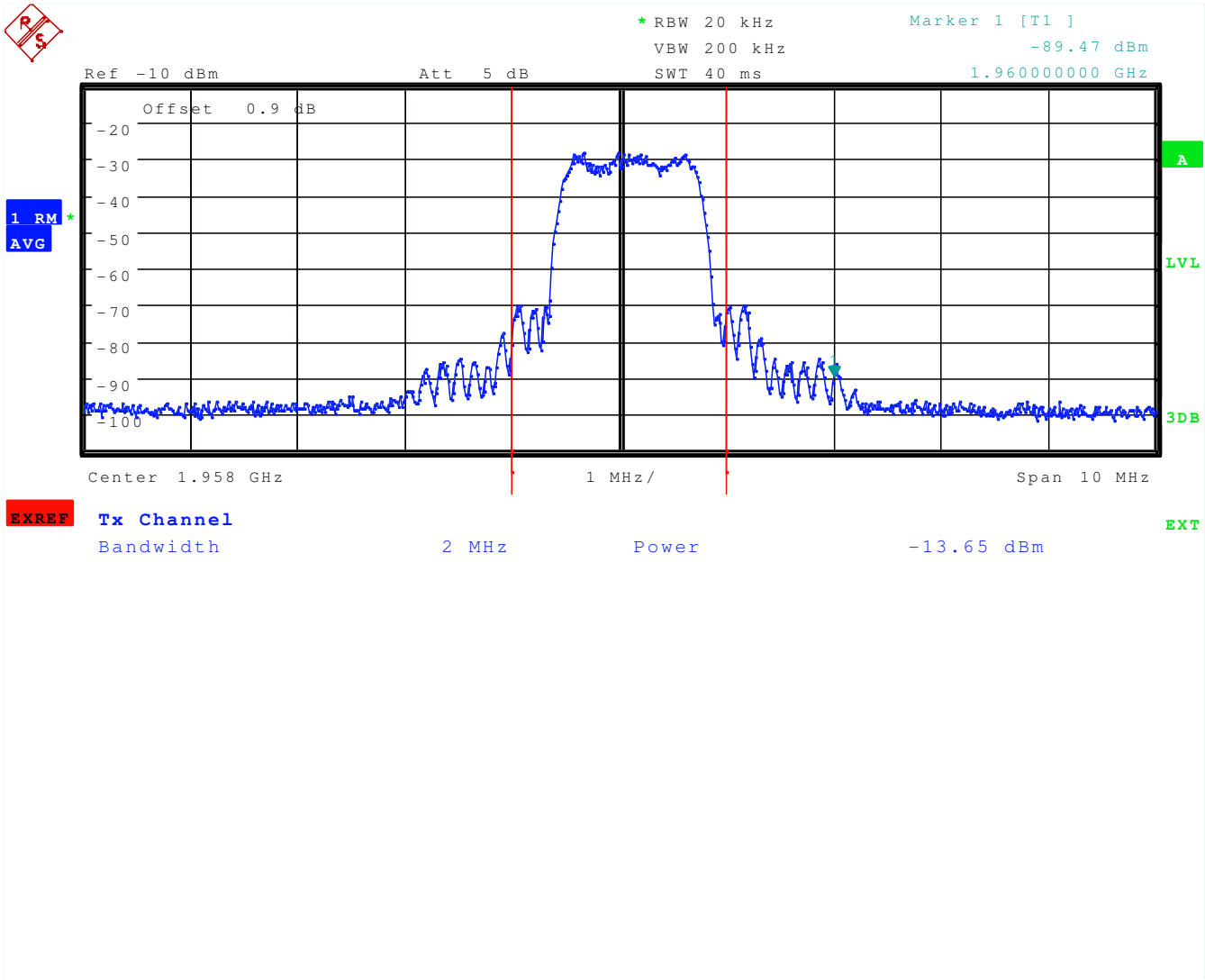
Date: 18.OCT.2008 14:04:01

Table 1.86: ./cdma-patterns/cdma-pattern-f-max-hold-occ-bw.pdf



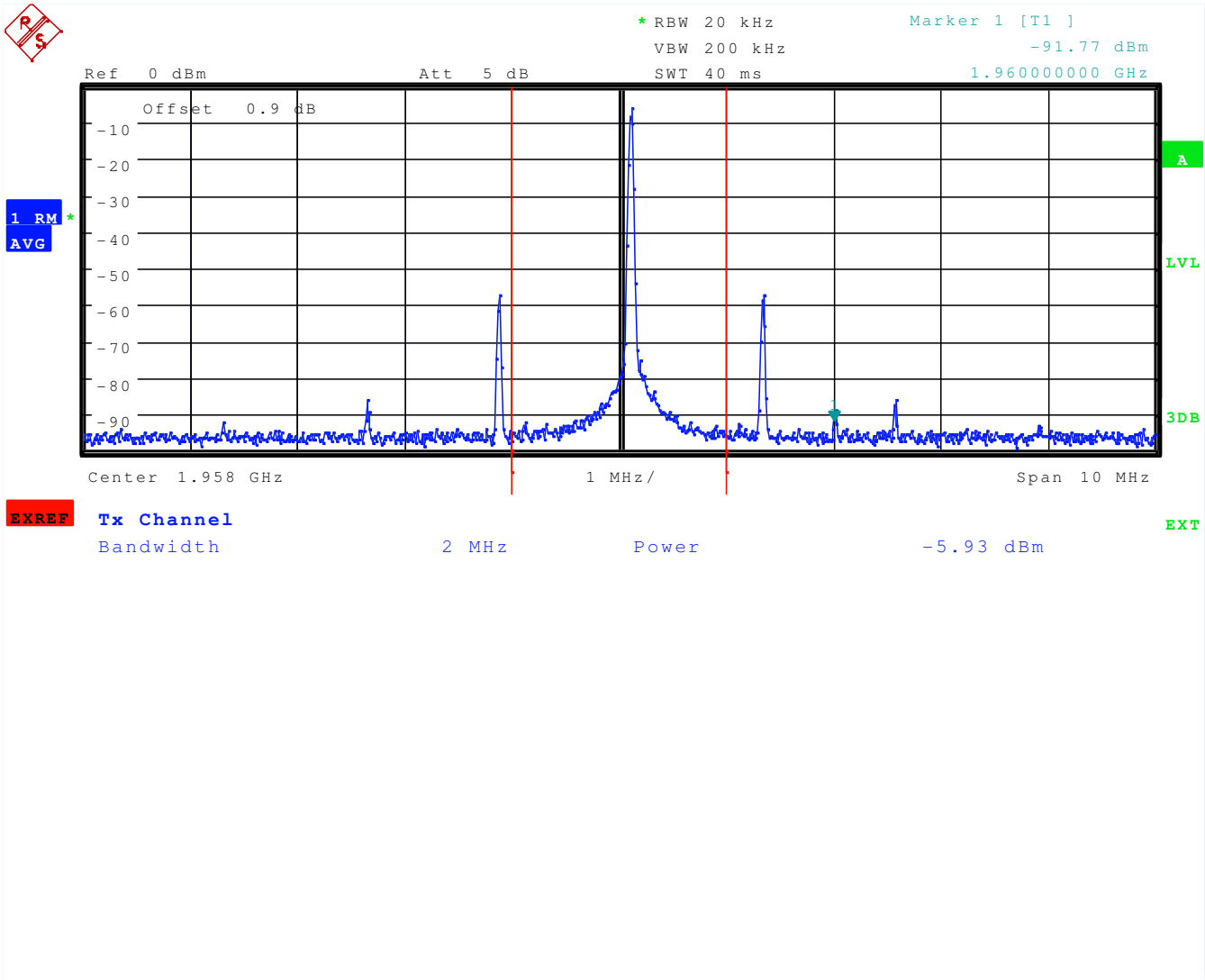
Date: 18.OCT.2008 14:10:56

Table 1.87: ./cdma-patterns/cdma-pattern-a-ave-power.pdf



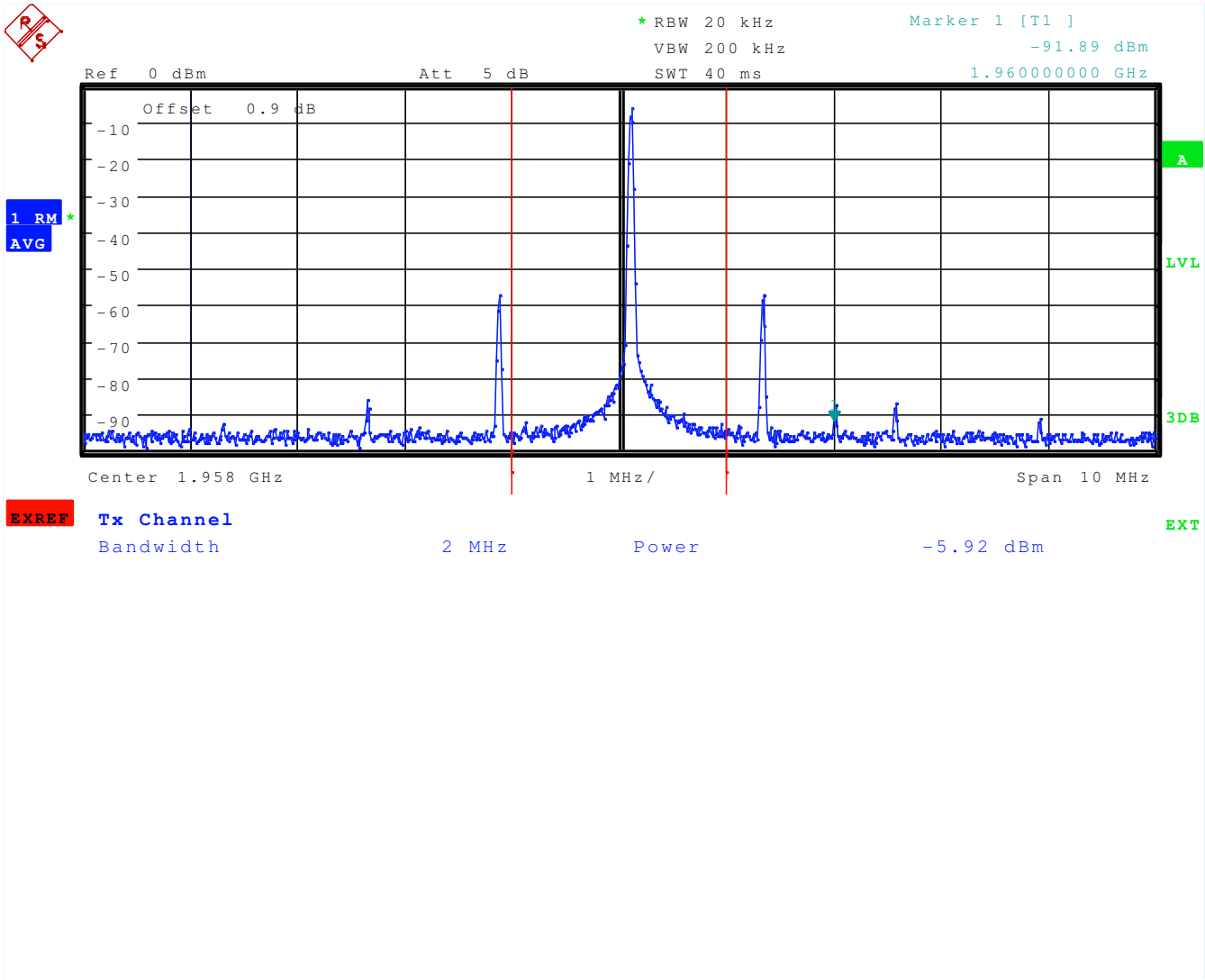
Date: 18.OCT.2008 13:58:45

Table 1.88: ./cdma-patterns/cdma-pattern-b-ave-power.pdf



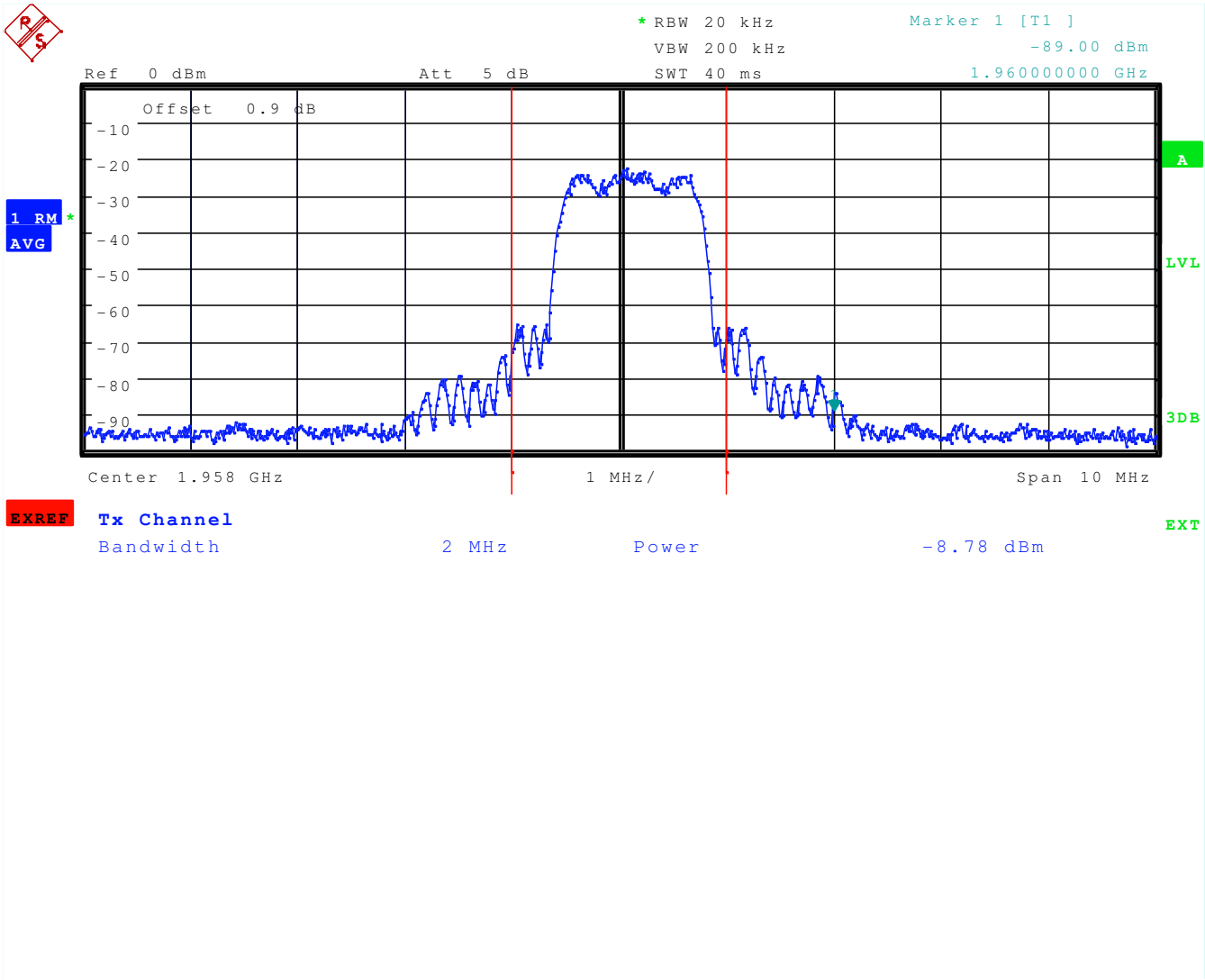
Date: 18.OCT.2008 14:00:38

Table 1.89: ./cdma-patterns/cdma-pattern-c-ave-power.pdf



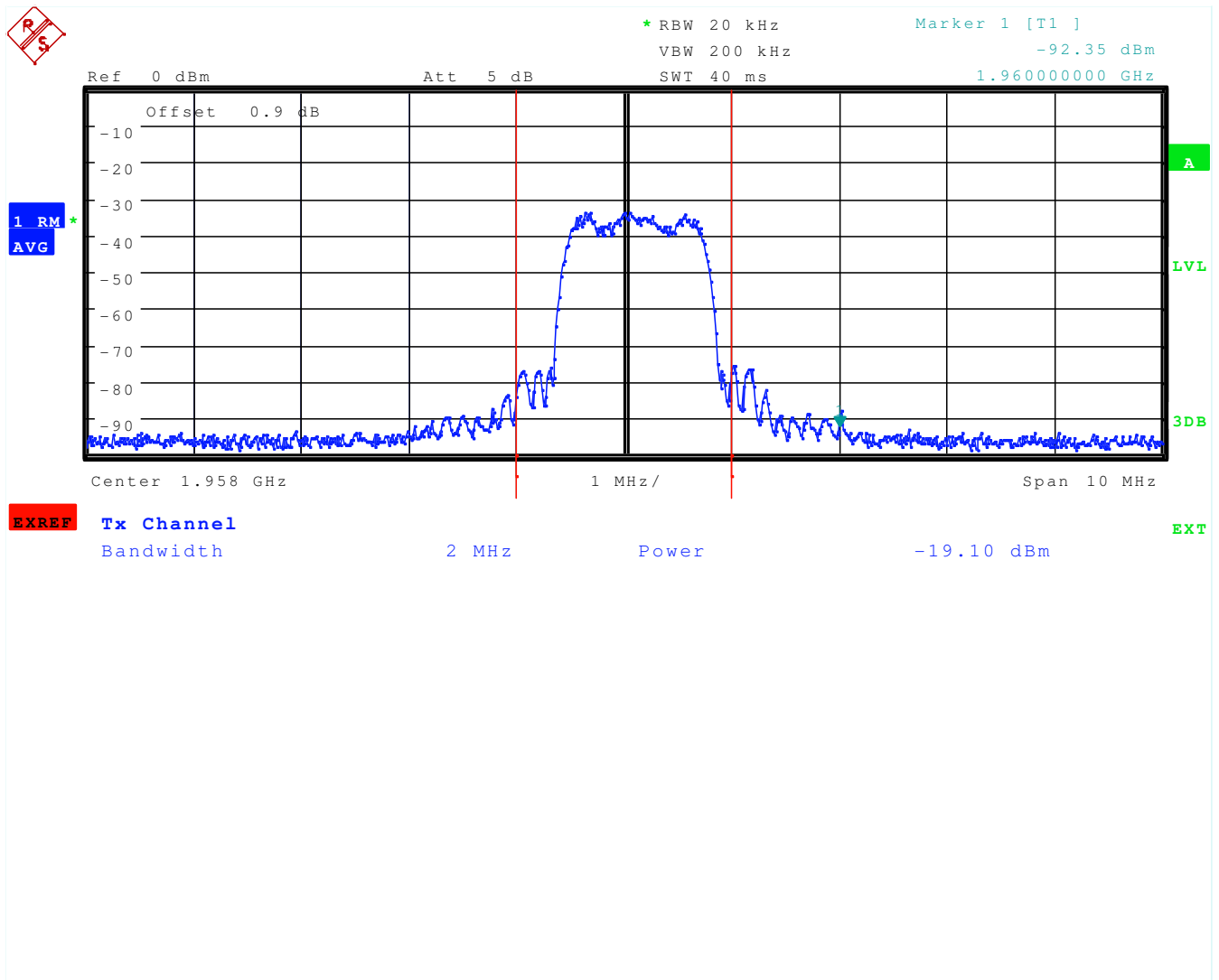
Date: 18.OCT.2008 14:02:33

Table 1.90: ./cdma-patterns/cdma-pattern-d-ave-power.pdf



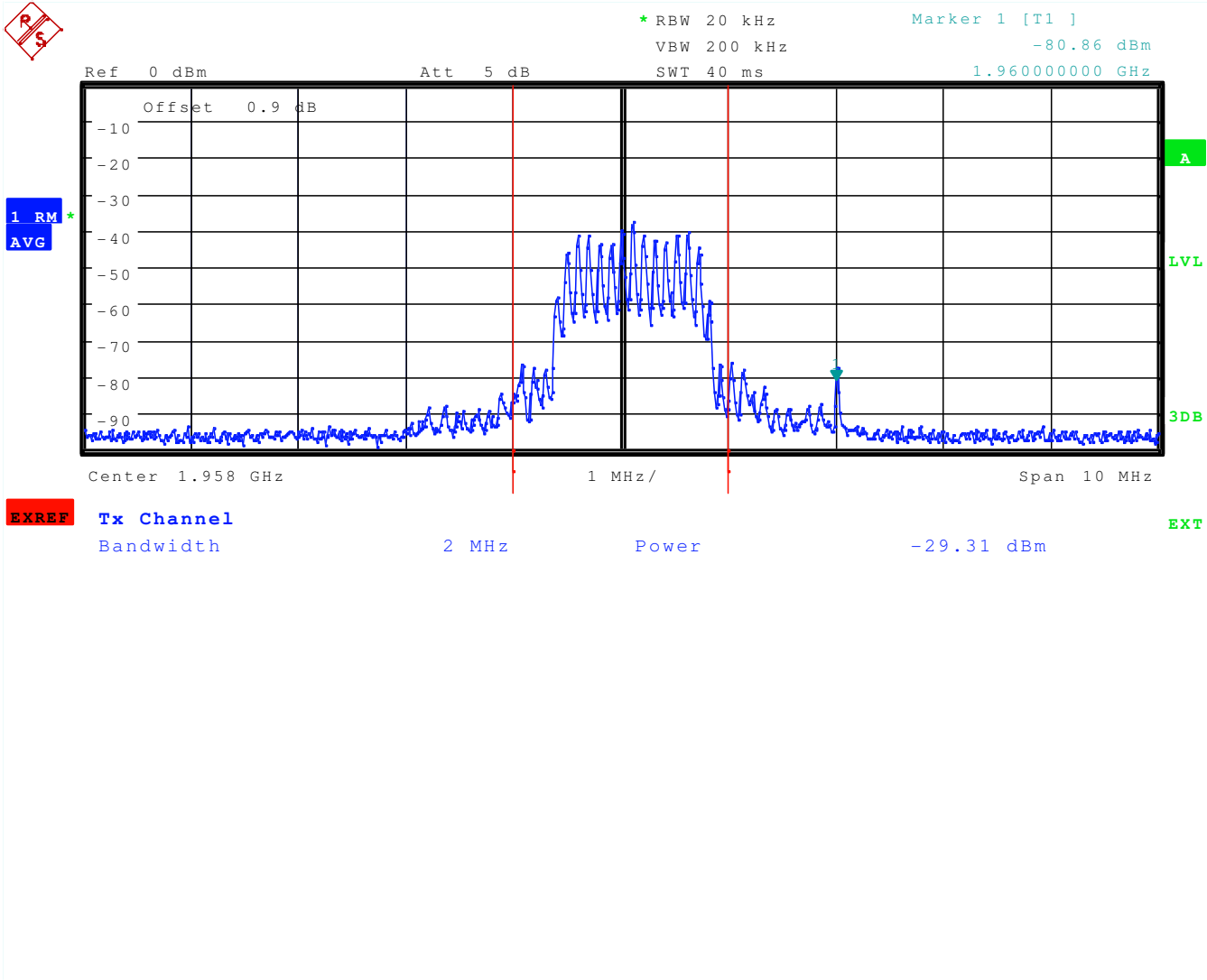
Date: 18.OCT.2008 14:03:23

Table 1.91: ./cdma-patterns/cdma-pattern-e-ave-power.pdf



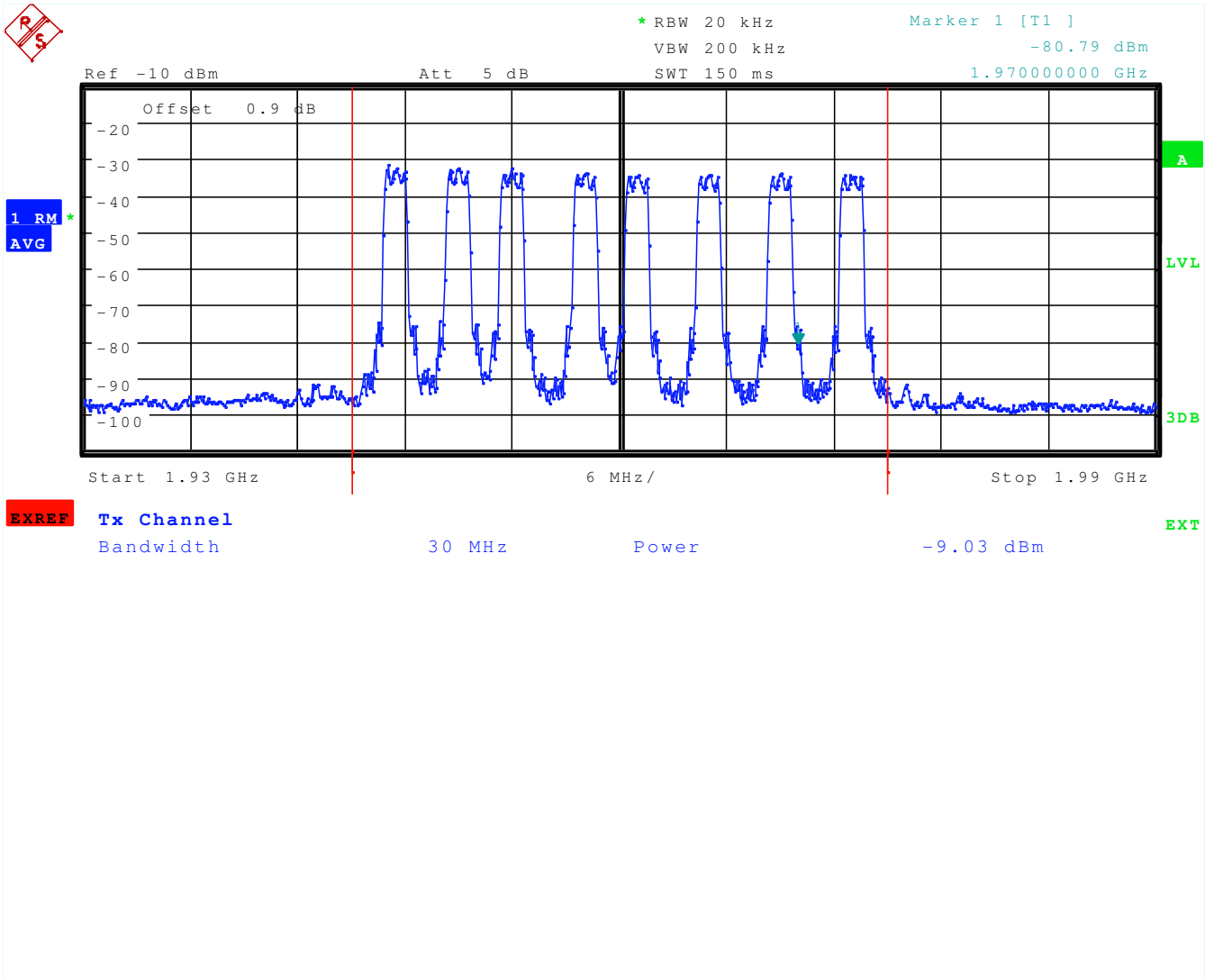
Date: 18.OCT.2008 14:04:37

Table 1.92: ./cdma-patterns/cdma-pattern-f-ave-power.pdf



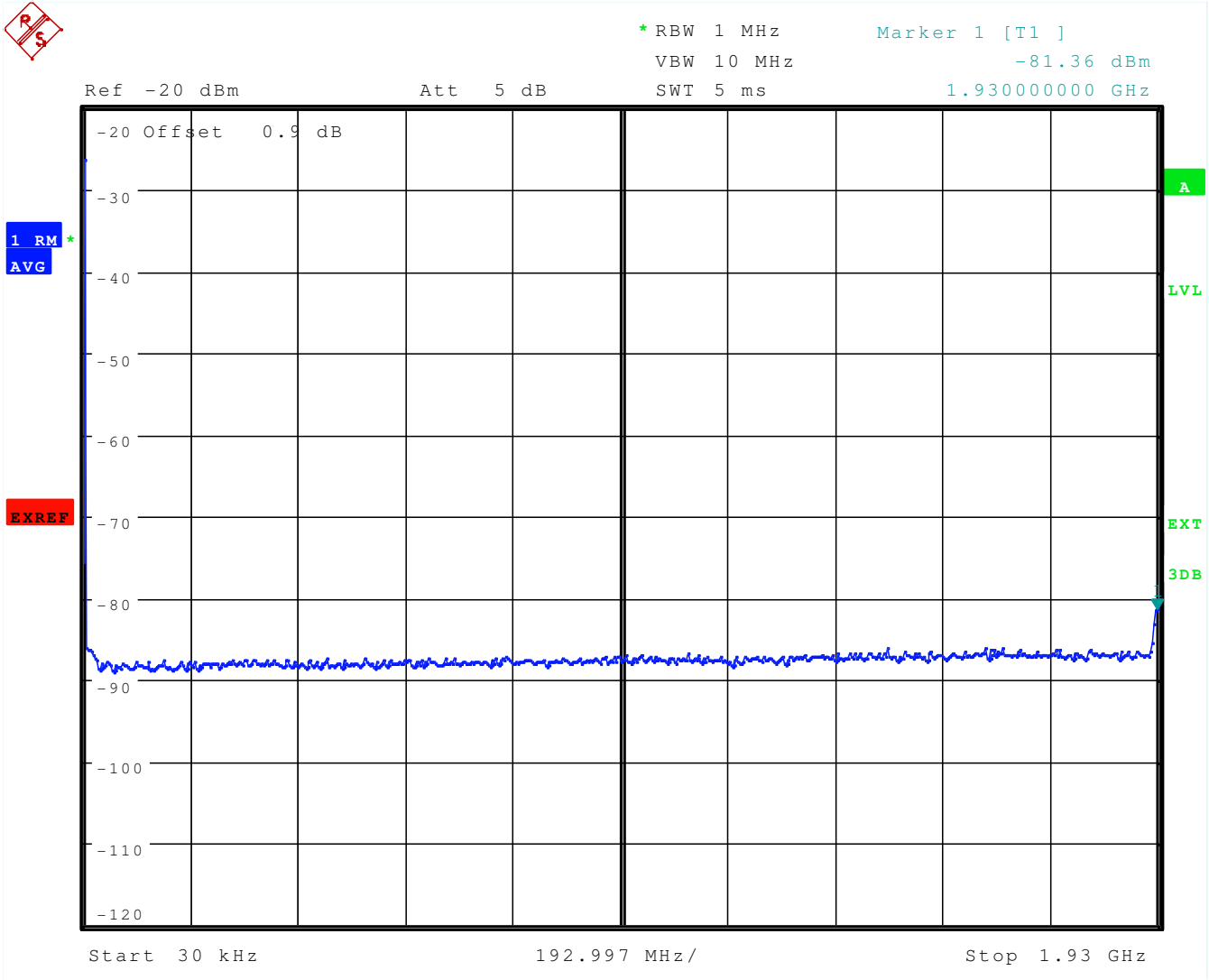
Date: 18.OCT.2008 14:11:59

Table 1.93: ./8cdma-mid/8cdma-total-power-1930-1990.pdf



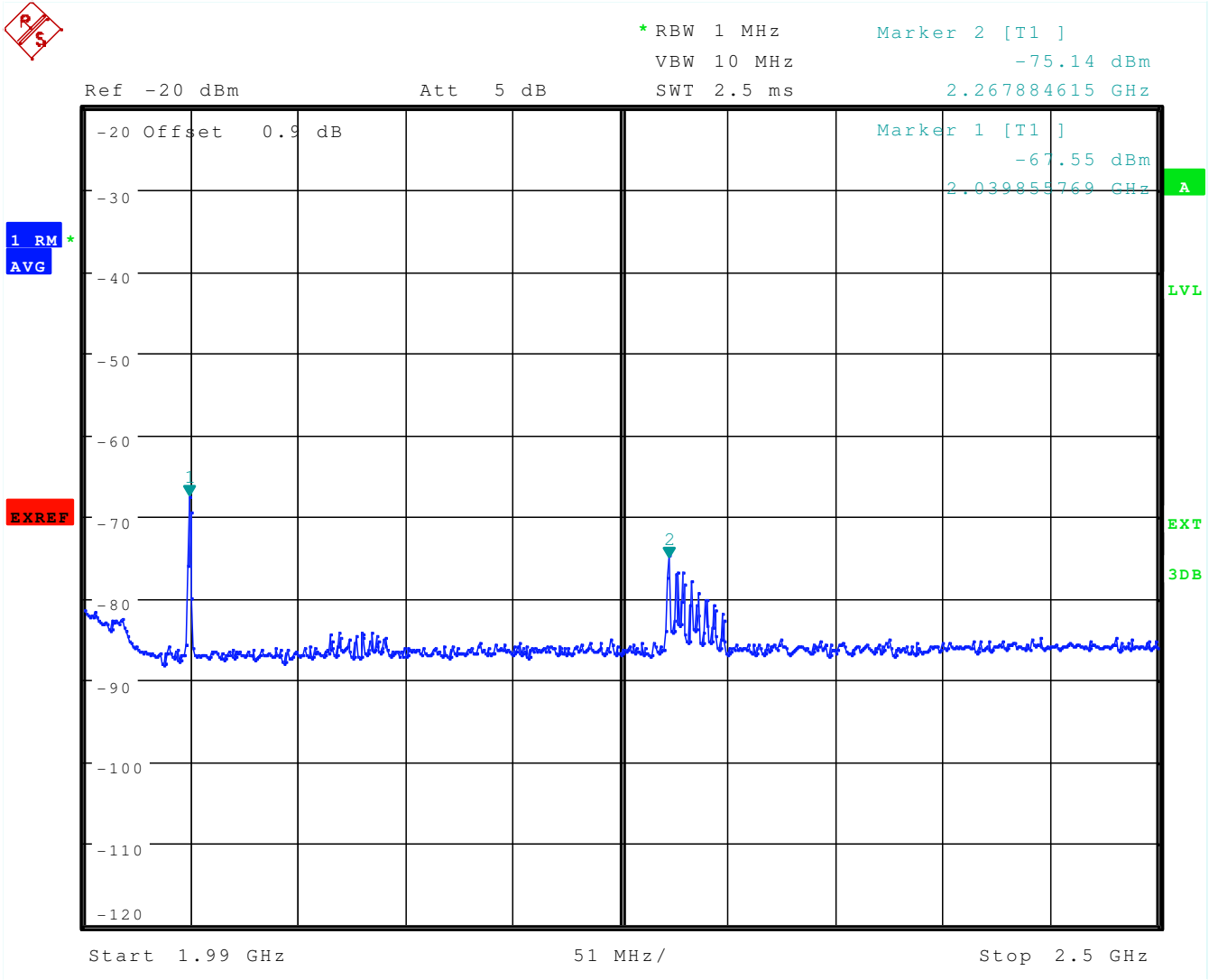
Date: 19.OCT.2008 14:38:03

Table 1.94: ./8cdma-mid/8cdma-30k-1930.pdf



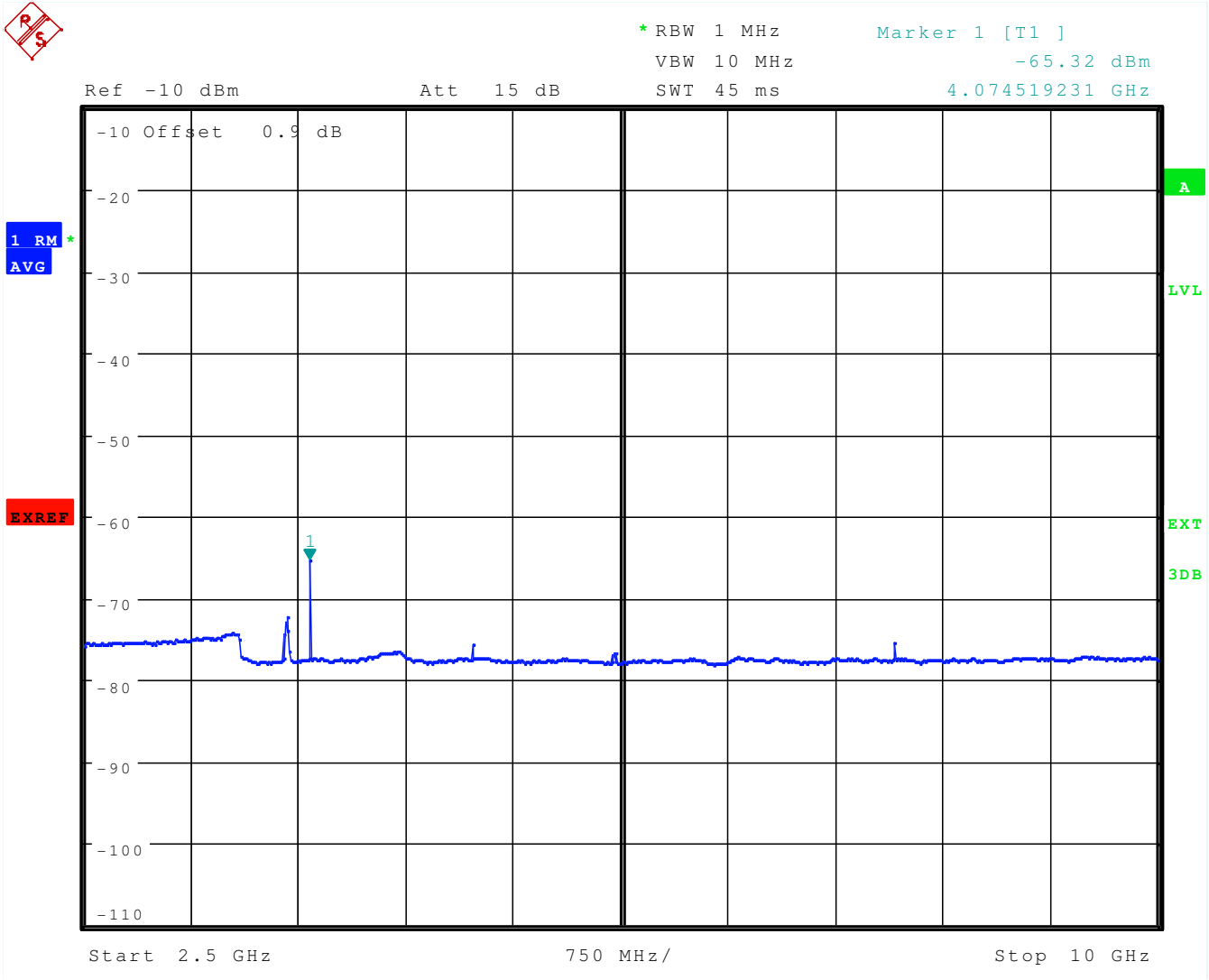
Date: 19.OCT.2008 14:51:17

Table 1.95: ./8cdma-mid/8cdma-1990-2pt5.pdf



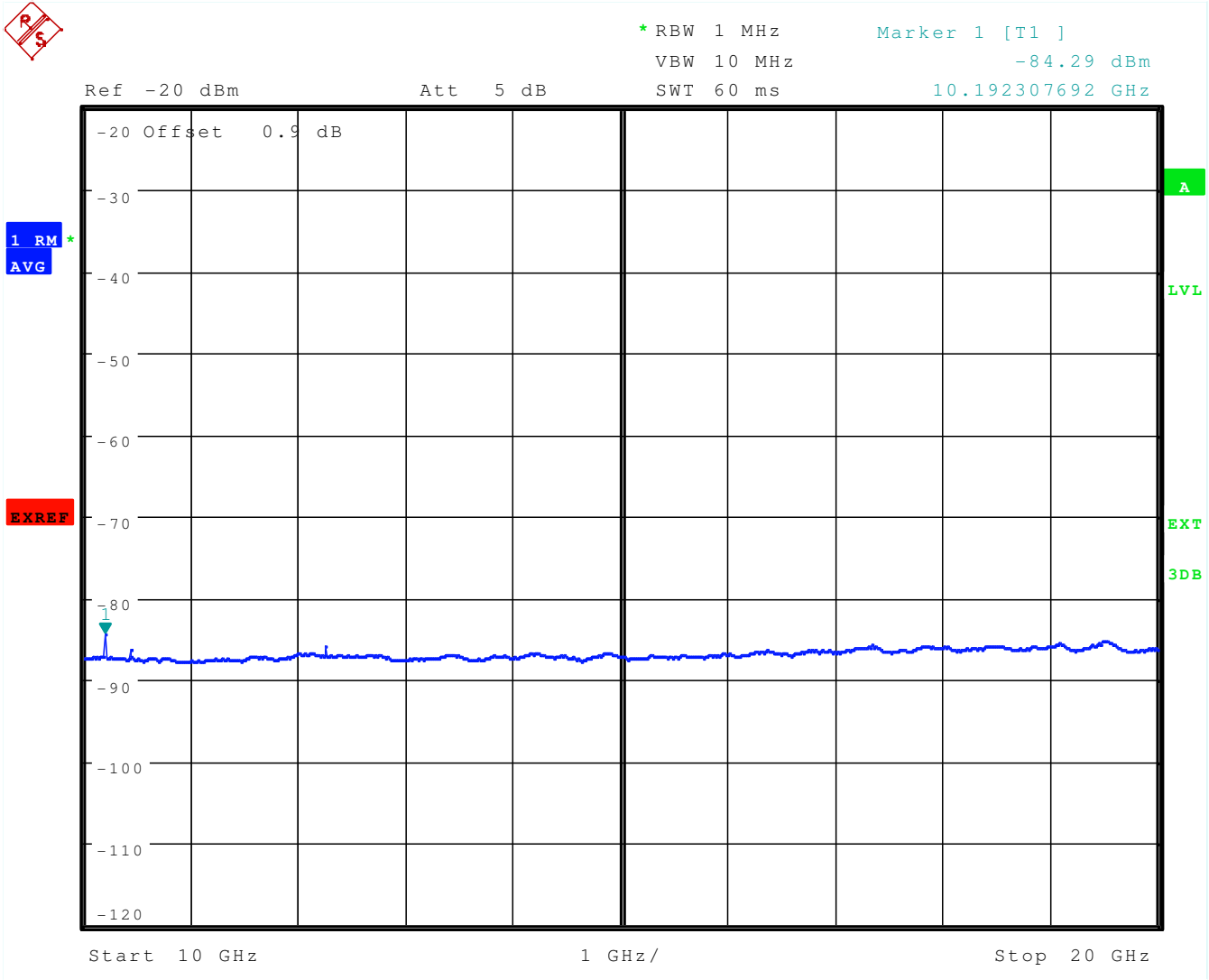
Date: 19.OCT.2008 14:48:25

Table 1.96: ./8cdma-mid/8cdma-2pt5-10.pdf



Date: 19.OCT.2008 14:42:29

Table 1.97: ./8cdma-mid/8cdma-10-20g.pdf



Date: 19.OCT.2008 14:59:31