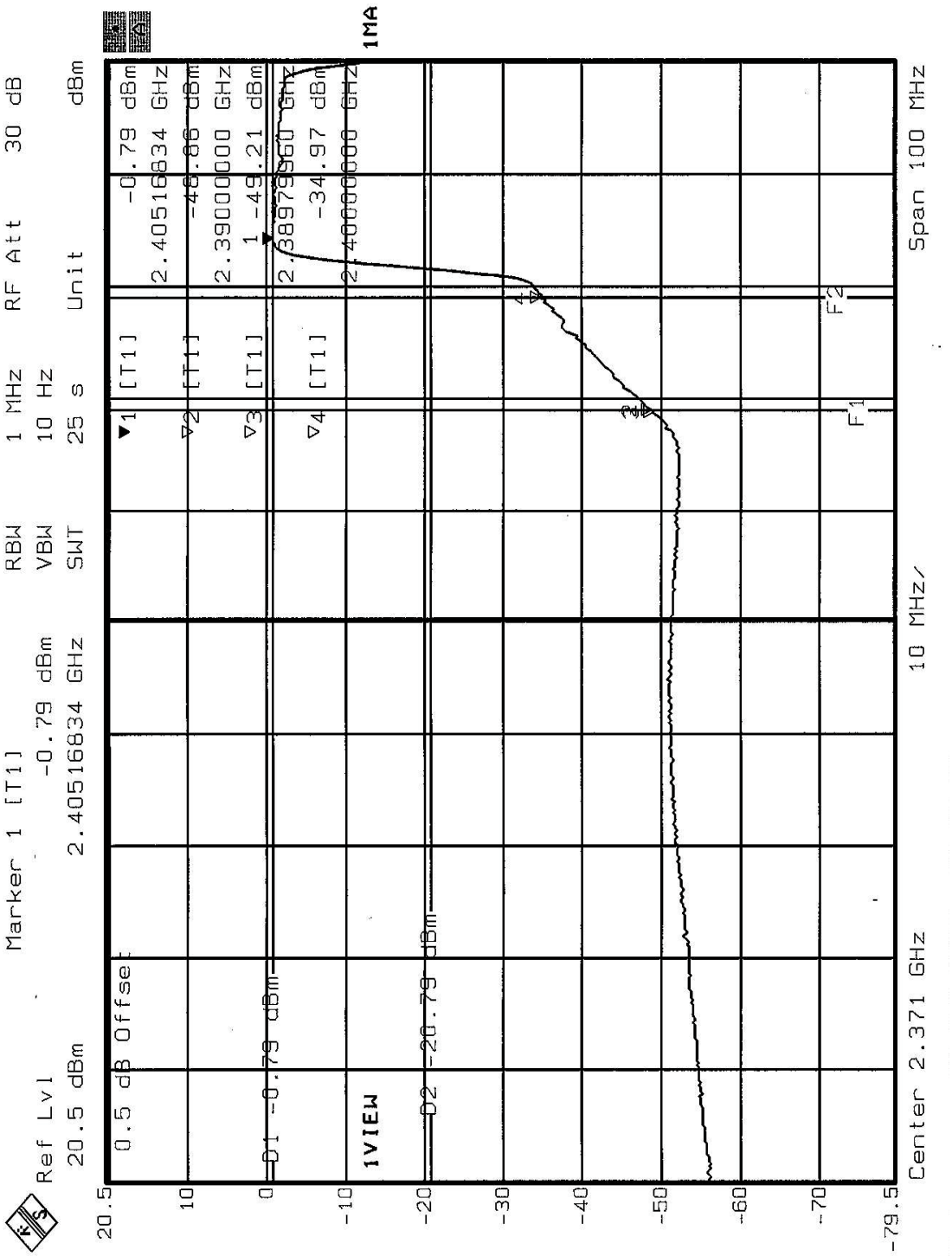
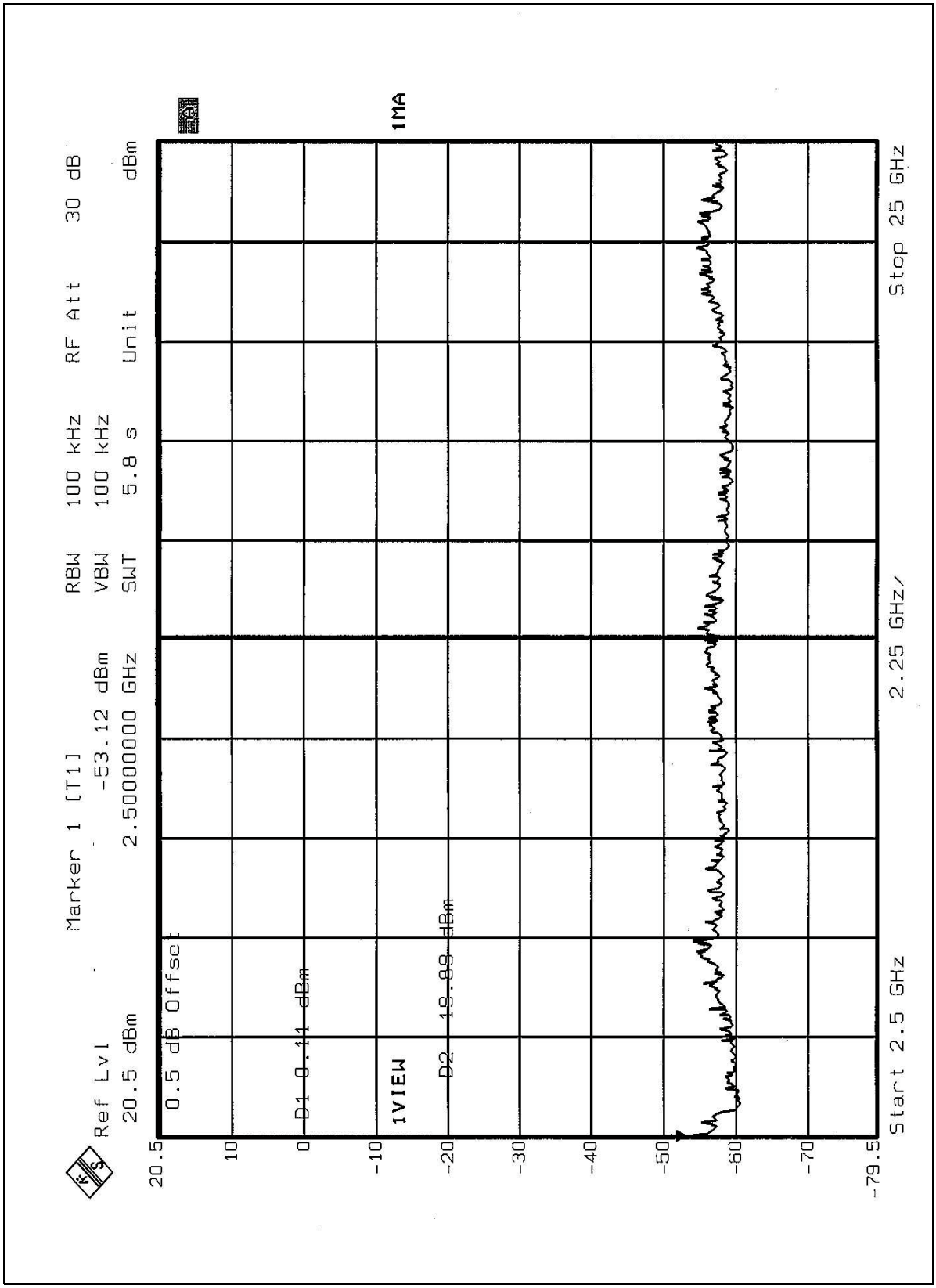
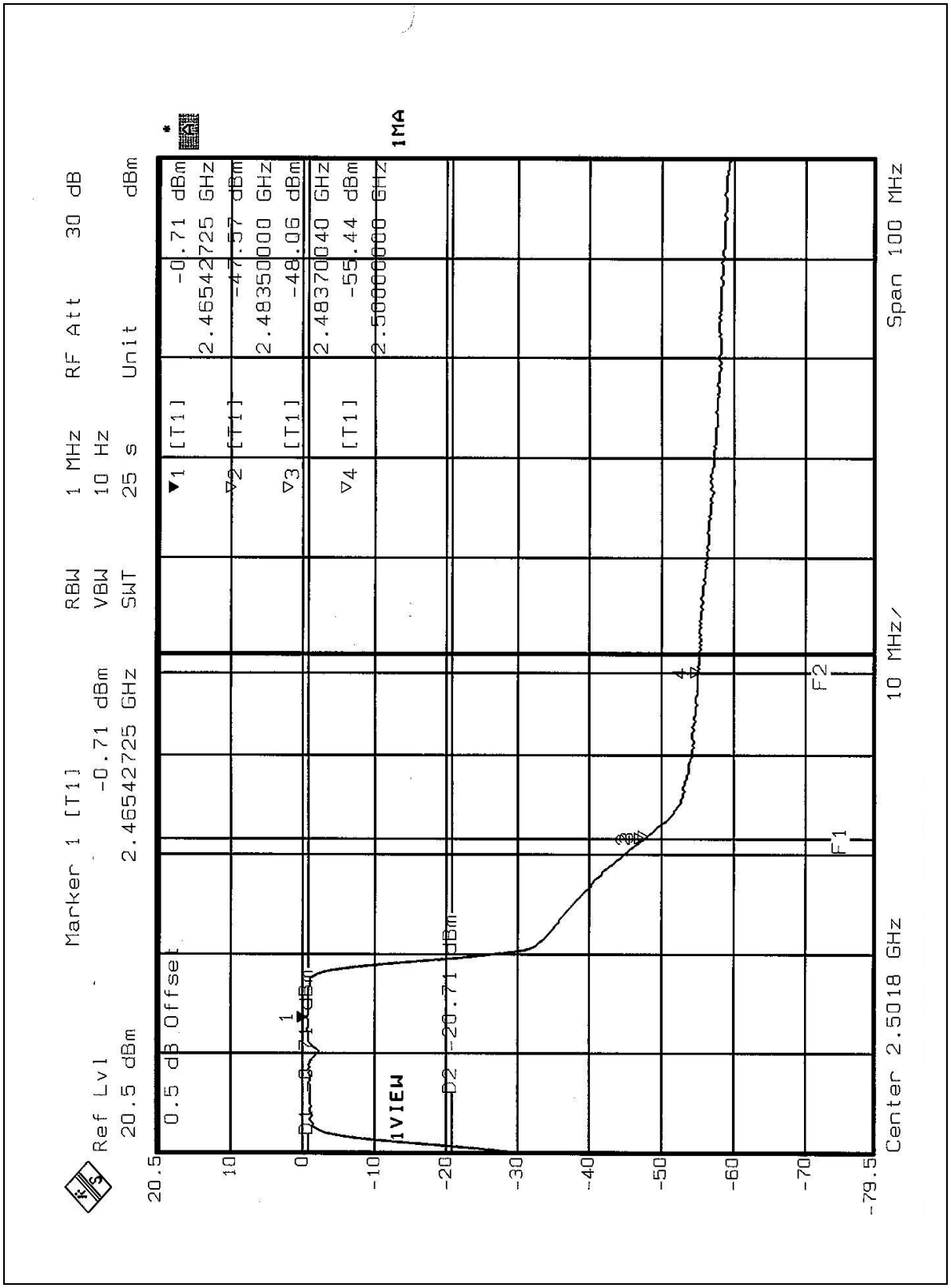
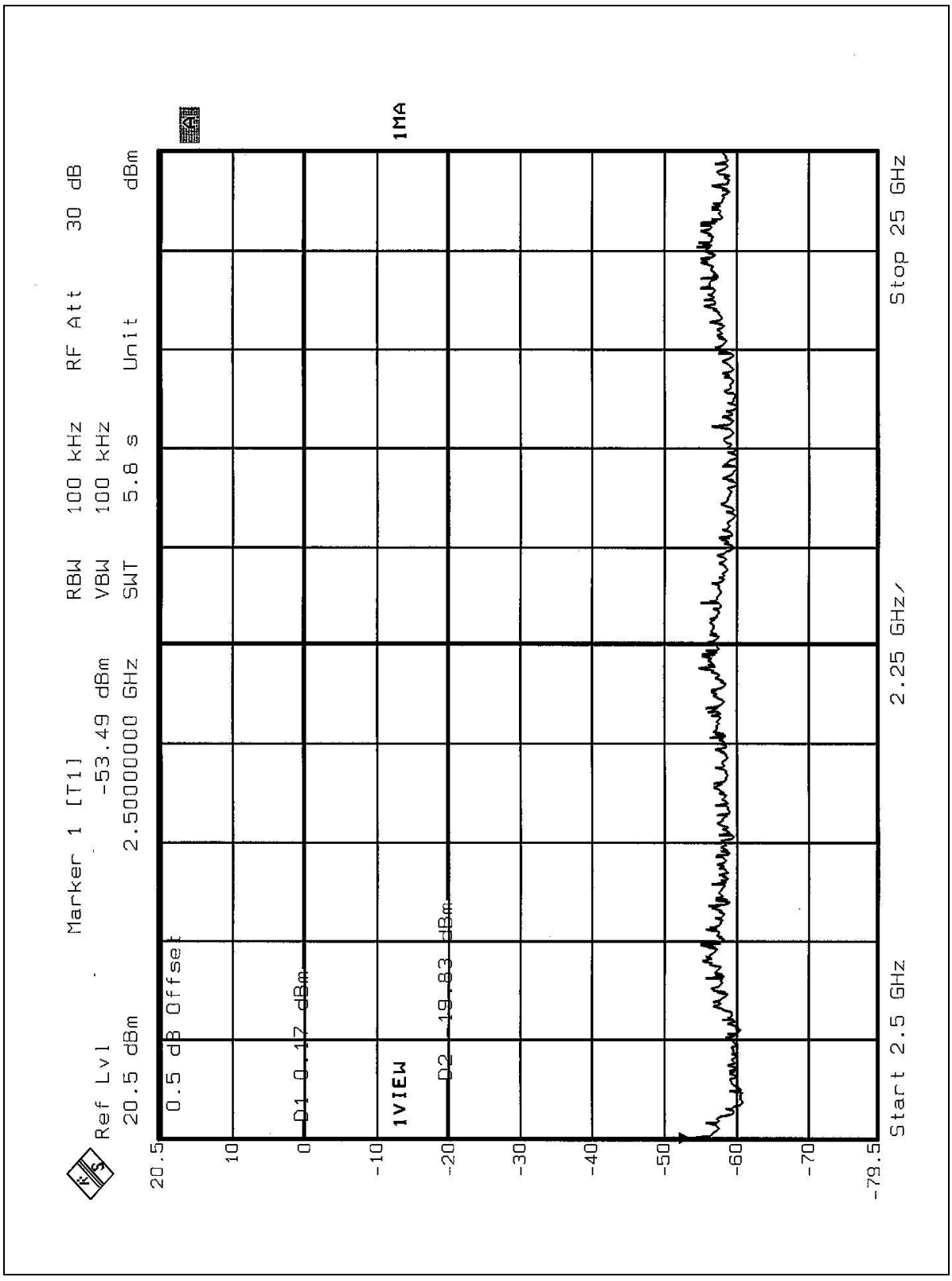
OFDM Normal mode

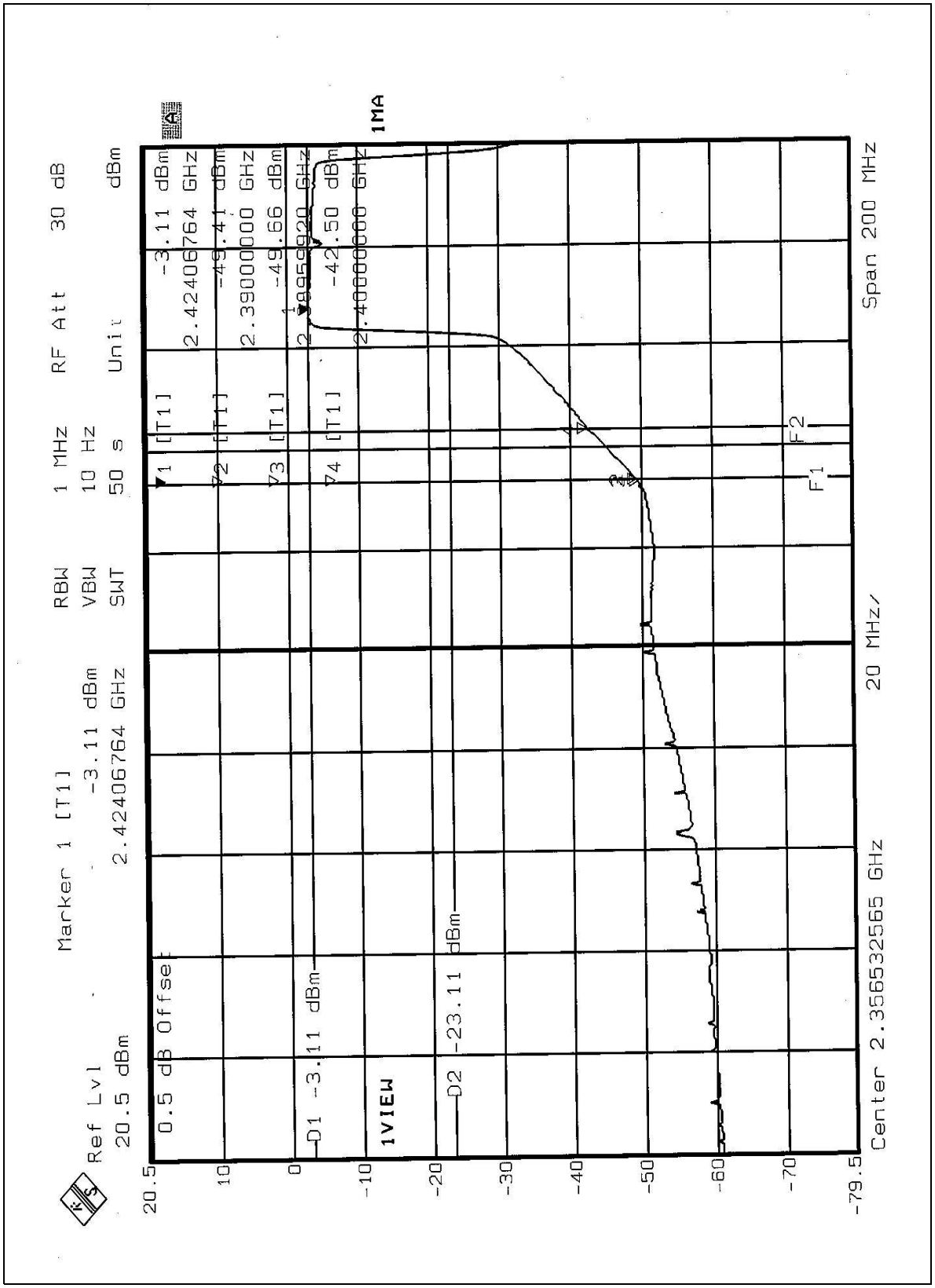


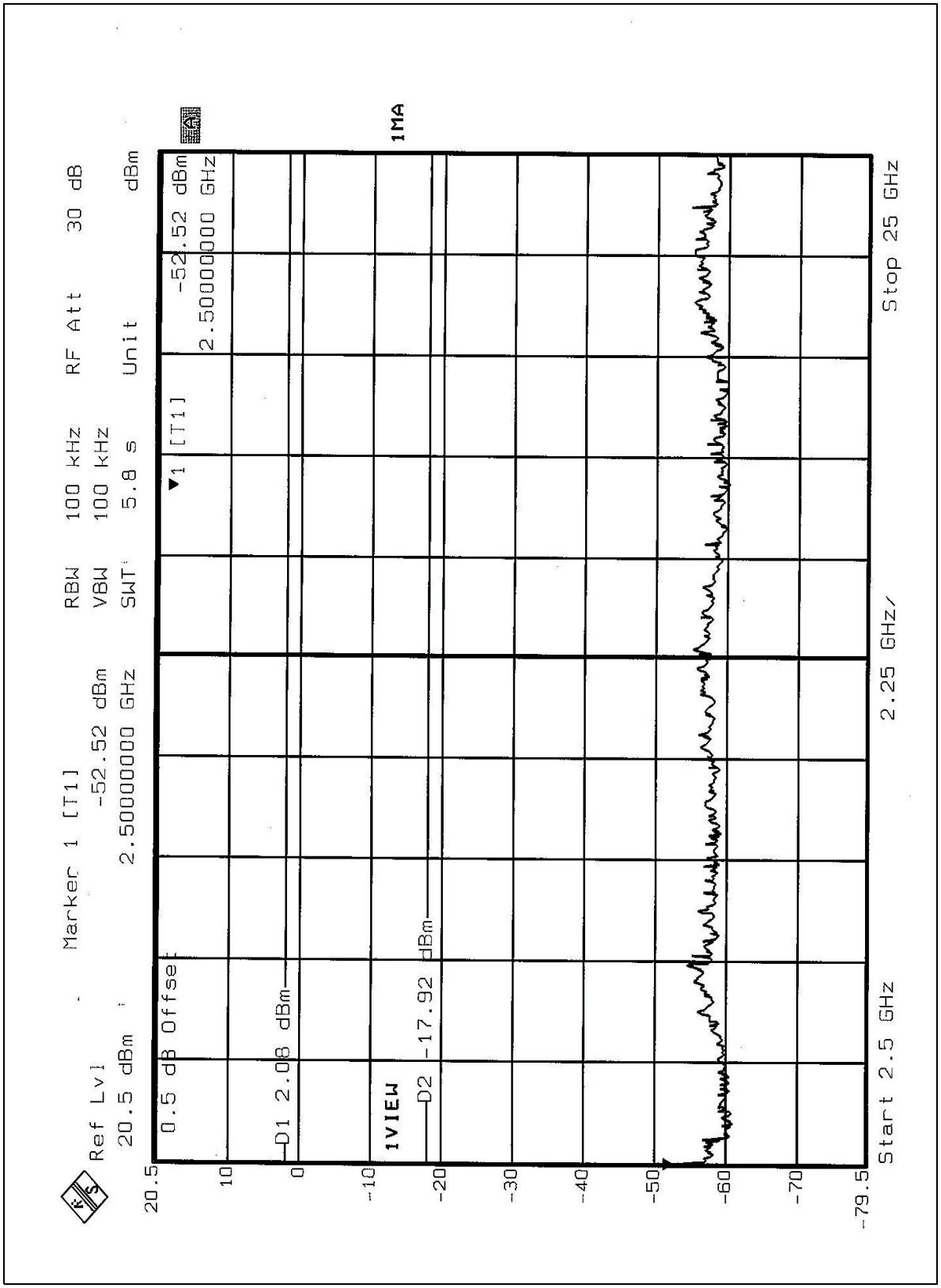

Marker 1 [T1]
-53.12 dBm
2.50000000 GHz
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 0.41 dBm
1VIEW
D2 19.99 dBm
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5

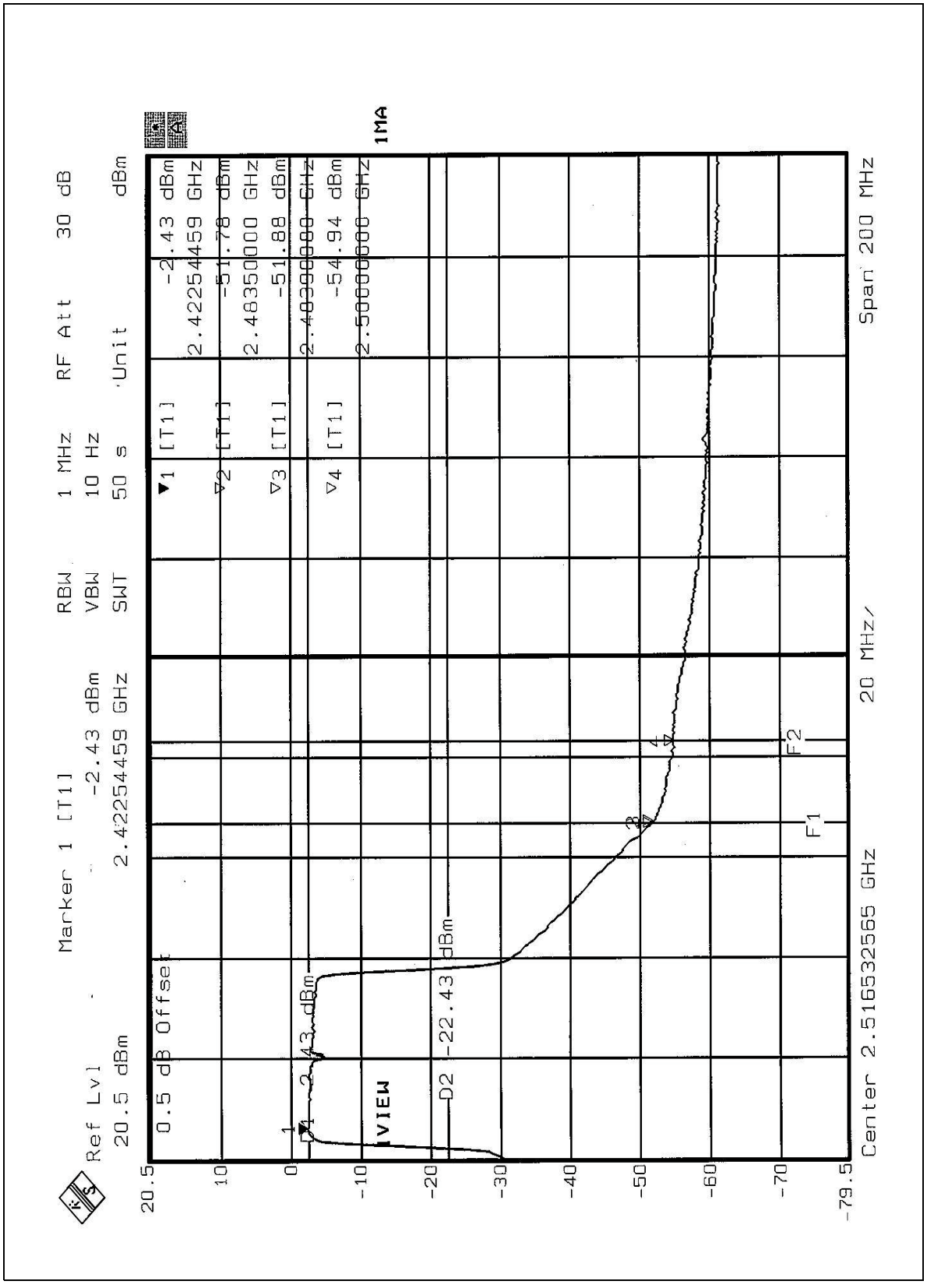

Marker 1 [T1]
-0.71 dBm
2.46542725 GHz
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
D1 -0.71 dBm
D2 -20.71 dBm
1MA
▼1 [T1] -0.71 dBm 2.46542725 GHz
▽2 [T1] -47.57 dBm 2.48350000 GHz
▽3 [T1] -48.06 dBm 2.48370040 GHz
▽4 [T1] -55.44 dBm 2.50000000 GHz
F1
F2
Center 2.5018 GHz
10 MHz/
Span 100 MHz

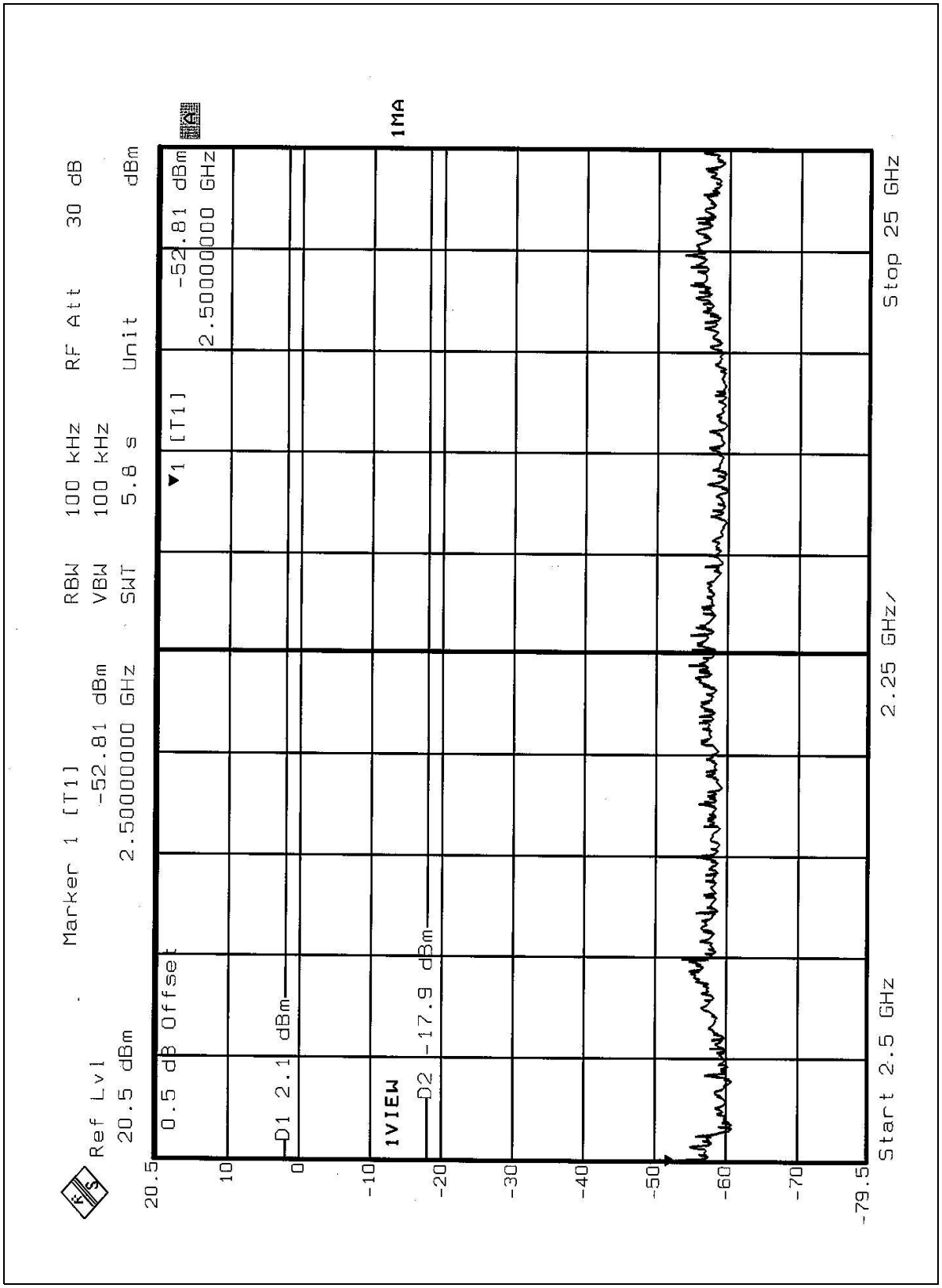

Marker 1 [T1]
-53.49 dBm
2.5000000 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 0.17 dBm
1VIEW
D2 19.83 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5

OFDM Turbo mode




Ref Lvl
20.5 dBm
0.5 dB Offset
Marker 1 [T1]
-52.52 dBm
2.50000000 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
D1 2.0 dBm
D2 -17.92 dBm
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz


Marker 1 [T1]
-2.43 dBm
2.42254459 GHz
RBW 1 MHz
VBW 10 Hz
SWT 50 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1MA
▼1 [T1] -2.43 dBm 2.42254459 GHz
▽2 [T1] -51.78 dBm 2.48350000 GHz
▽3 [T1] -51.88 dBm 2.48390000 GHz
▽4 [T1] -54.94 dBm 2.50600000 GHz
D1 -2.43 dBm
D2 -22.43 dBm
VIEW
F1
F2
Center 2.516532565 GHz
20 MHz/
Span 200 MHz
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5


Ref Lvl
20.5 dBm
0.5 dB Offset
Marker 1 [T1]
-52.81 dBm
2.50000000 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
1MA
1 [T1]
-52.81 dBm
2.50000000 GHz
D1 2.1 dBm
D2 -17.9 dBm
1VIEW
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is dipole antenna with UFL connector. The maximum Gain of the antenna is 2dBi.

5. TEST TYPES AND RESULTS (FOR PART 802.11a)

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE:
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 2005
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

5.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

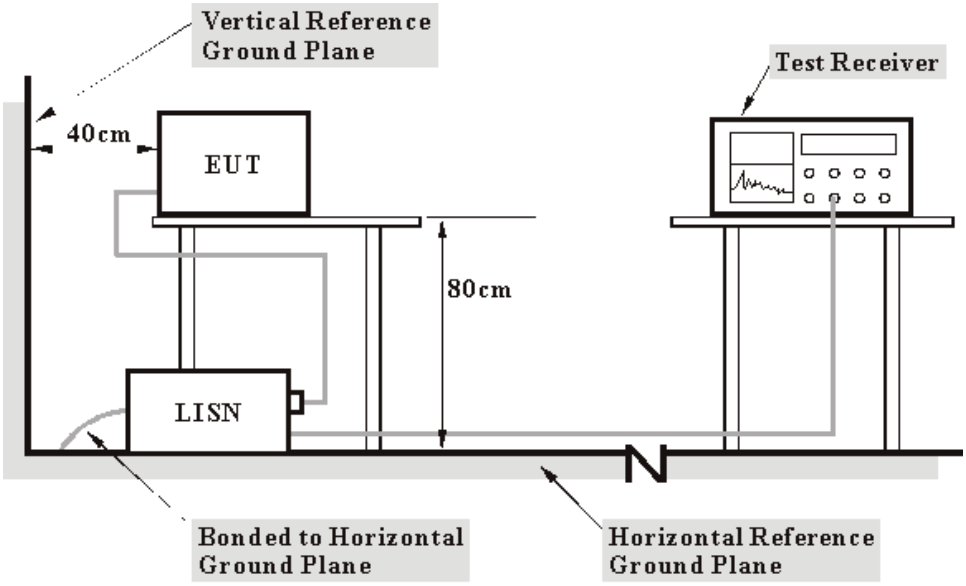
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation.

5.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

5.1.6 EUT OPERATING CONDITIONS

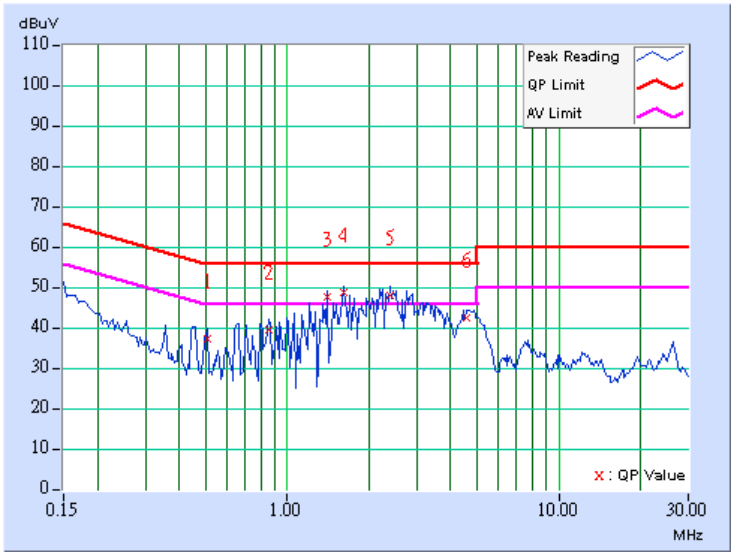
Same as 4.1.6.

5.1.7 TEST RESULTS

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	**PHASE**	Line (L)
TESTED BY	Rush Kao		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.509	0.13	37.35	-	37.48	-	56.00	46.00	-18.52	-
2	0.857	0.14	39.46	-	39.60	-	56.00	46.00	-16.40	-
3	1.410	0.15	47.40	32.16	47.55	32.31	56.00	46.00	-8.45	-13.69
4	**1.617**	**0.16**	**48.56**	**32.97**	**48.72**	**33.13**	**56.00**	**46.00**	**-7.28**	**-12.87**
5	2.387	0.17	47.83	36.32	48.00	36.49	56.00	46.00	-8.00	-9.51
6	4.598	0.22	42.28	-	42.50	-	56.00	46.00	-13.50	-

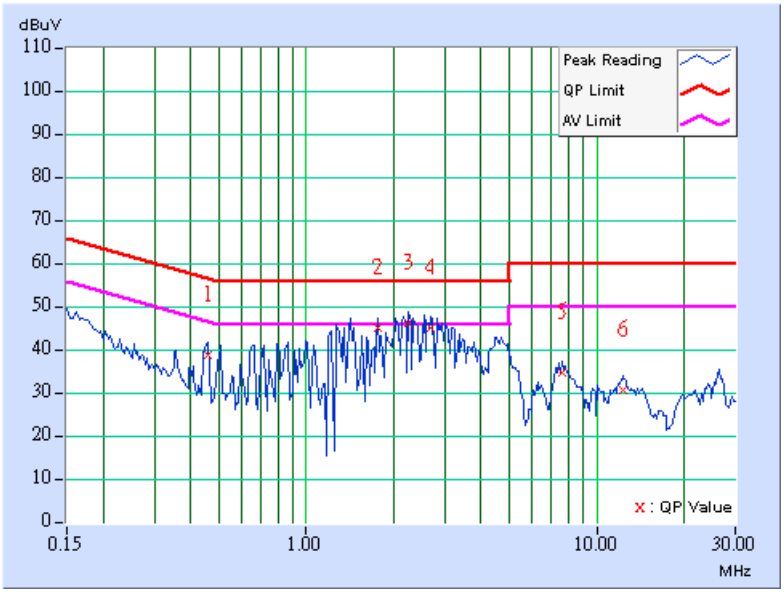
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	**PHASE**	Neutral (N)
TESTED BY	Rush Kao		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.459	0.12	38.44	-	38.56	-	56.72	46.72	-18.16	-
2	1.766	0.16	44.82	-	44.98	-	56.00	46.00	-11.02	-
3	2.242	0.16	45.77	-	45.93	-	56.00	46.00	-10.07	-
4	2.684	0.17	44.67	-	44.84	-	56.00	46.00	-11.16	-
5	7.590	0.28	34.31	-	34.59	-	60.00	50.00	-25.41	-
6	12.313	0.45	30.34	-	30.79	-	60.00	50.00	-29.21	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



5.2 RADIATED EMISSION MEASUREMENT

5.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

5.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E=\frac{1000000\sqrt{30P}}{3}\quad \mu V/m, \text{ where P is the eirp (Watts)}$$

5.2.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Jan. 13, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Jan. 22, 2005
Preamplifier Agilent	8447D	2944A10629	Jan. 14, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 1.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The IC Site Registration No. is IC4924-2.

5.2.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

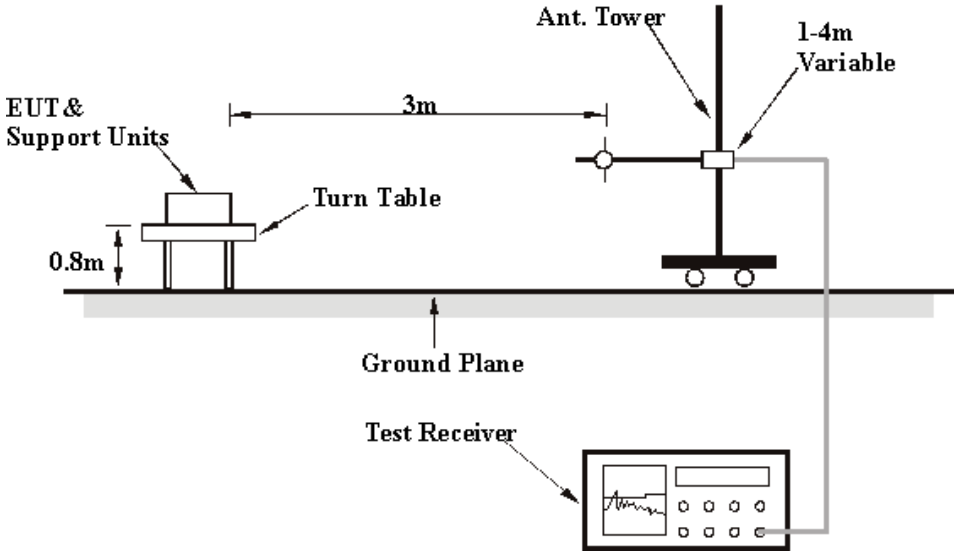
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

5.2.5 DEVIATION FROM TEST STANDARD

No deviation.

5.2.6 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

5.2.7 EUT OPERATING CONDITIONS

Same as 4.1.6.

5.2.8 TEST RESULTS

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
CHANNEL	Channel 5	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak (QP)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**TESTED BY**	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	43.61	33.00 QP	40.00	-7.00	1.00 H	289	17.73	15.28
2	57.21	32.73 QP	40.00	-7.27	1.75 H	115	18.74	13.99
3	109.70	32.35 QP	43.50	-11.15	1.50 H	271	20.38	11.97
4	218.56	26.97 QP	46.00	-19.03	1.50 H	244	15.17	11.80
5	239.94	28.76 QP	46.00	-17.24	1.00 H	49	15.69	13.07
6	249.66	34.30 QP	46.00	-11.70	1.25 H	28	21.08	13.22
7	329.36	33.82 QP	46.00	-12.18	1.00 H	334	18.64	15.18
8	374.07	33.62 QP	46.00	-12.38	1.00 H	277	17.44	16.18
9	399.34	28.06 QP	46.00	-17.94	1.00 H	127	11.33	16.74
10	500.42	42.84 QP	46.00	-3.16	1.75 H	250	24.10	18.74
11	550.96	36.88 QP	46.00	-9.12	1.75 H	292	17.16	19.72
12	599.56	32.16 QP	46.00	-13.84	1.25 H	43	11.16	21.00
13	681.20	36.64 QP	46.00	-9.36	1.25 H	295	14.57	22.07
14	770.62	40.14 QP	46.00	-5.86	1.00 H	298	16.49	23.65
15	881.42	34.71 QP	46.00	-11.29	1.50 H	292	9.94	24.77
16	990.28	41.25 QP	54.00	-12.75	1.25 H	253	15.48	25.77

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
CHANNEL	Channel 5	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak (QP)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**TESTED BY**	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	44.92	38.51 QP	40.00	-1.49	1.06 V	23	23.22	15.30
2	76.65	33.53 QP	40.00	-6.47	1.00 V	25	22.69	10.84
3	109.70	39.05 QP	43.50	-4.45	1.00 V	253	27.07	11.97
4	138.86	34.06 QP	43.50	-9.44	2.00 V	169	19.72	14.34
5	164.13	30.44 QP	43.50	-13.06	1.00 V	235	15.95	14.49
6	249.66	39.71 QP	46.00	-6.29	1.00 V	10	26.49	13.22
7	329.36	35.57 QP	46.00	-10.43	1.50 V	268	20.40	15.18
8	374.07	32.00 QP	46.00	-14.00	1.00 V	10	15.82	16.18
9	399.34	29.51 QP	46.00	-16.49	1.25 V	346	12.78	16.74
10	479.04	32.27 QP	46.00	-13.73	1.25 V	40	13.82	18.45
11	500.42	42.52 QP	46.00	-3.48	1.00 V	307	23.78	18.74
12	550.96	40.24 QP	46.00	-5.76	1.00 V	88	20.53	19.72
13	681.20	32.88 QP	46.00	-13.12	1.00 V	178	10.81	22.07
14	770.62	38.12 QP	46.00	-7.88	1.25 V	319	14.47	23.65
15	881.42	34.99 QP	46.00	-11.01	1.00 V	37	10.22	24.77
16	990.28	37.62 QP	54.00	-16.38	1.50 V	346	11.86	25.77

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	1
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3453.00	48.31 PK	68.30	-19.99	1.29 H	7	12.73	35.58
2	#5150.00	55.46 PK	74.00	-18.54	1.34 H	119	16.36	39.10
2	#5150.00	44.69 AV	54.00	-9.31	1.34 H	119	5.59	39.10
3	*5180.00	104.06 PK			1.34 H	119	64.89	39.17
3	*5180.00	93.29 AV			1.34 H	119	54.12	39.17
4	10360.00	66.25 PK	68.30	-2.05	1.29 H	203	20.96	45.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3453.00	50.07 PK	68.30	-18.23	1.29 V	360	14.49	35.58
2	#5150.00	62.67 PK	74.00	-11.33	1.05 V	333	23.57	39.10
2	#5150.00	51.38 AV	54.00	-2.62	1.05 V	333	12.28	39.10
3	*5180.00	111.27 PK			1.05 V	334	72.10	39.17
3	*5180.00	99.98 AV			1.05 V	334	60.81	39.17
4	**10360.00**	**68.24 PK**	**68.30**	**-0.06**	**1.05 V**	**236**	**22.95**	**45.29**

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	4
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3493.00	46.89 PK	68.30	-21.41	1.10 H	41	11.20	35.70
2	*5240.00	103.45 PK			1.25 H	114	64.27	39.18
2	*5240.00	91.83 AV			1.25 H	114	52.65	39.18
3	10480.00	64.47 PK	68.30	-3.83	1.11 H	207	18.38	46.08

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3493.00	48.97 PK	68.30	-19.33	1.10 V	311	13.28	35.70
2	*5240.00	112.27 PK			1.10 V	294	73.09	39.18
2	*5240.00	101.39 AV			1.10 V	294	62.21	39.18
3	10480.00	65.84 PK	68.30	-2.46	1.09 V	21	19.75	46.08

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	5
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3506.00	48.00 PK	74.00	-26.00	1.06 H	38	12.26	35.73
1	#3506.00	37.15 AV	54.00	-16.85	1.06 H	38	1.42	35.73
2	*5260.00	103.81 PK			1.30 H	119	64.65	39.16
2	*5260.00	92.80 AV			1.30 H	119	53.64	39.16
3	10520.00	63.94 PK	68.30	-4.36	1.27 H	207	17.79	46.16

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3506.00	51.58 PK	68.30	-16.72	1.09 V	320	15.84	35.73
1	3506.00	43.84 AV	54.00	-10.16	1.09 V	320	8.10	35.73
2	*5260.00	112.90 PK			1.25 V	341	73.74	39.16
2	*5260.00	102.29 AV			1.25 V	341	63.13	39.16
3	10520.00	67.22 PK	68.30	-1.08	1.26 V	21	21.07	46.16
4	#15780.00	61.23 PK	74.00	-12.77	1.29 V	282	13.97	47.25
4	#15780.00	47.61 AV	54.00	-6.39	1.29 V	282	0.35	47.25

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency.
6. “#”The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	8
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3546.00	47.97 PK	74.00	-26.03	1.21 H	312	12.12	35.85
1	#3546.00	37.54 AV	54.00	-16.46	1.21 H	312	1.69	35.85
2	*5320.00	102.13 PK			1.20 H	115	62.98	39.15
2	*5320.00	91.65 AV			1.20 H	115	52.50	39.15
3	#5350.00	53.36 PK	74.00	-20.64	1.20 H	115	14.16	39.20
3	#5350.00	42.88 AV	54.00	-11.12	1.20 H	115	3.68	39.20
4	#10640.00	63.95 PK	74.00	-10.05	1.25 H	209	17.72	46.23
4	#10640.00	51.30 AV	54.00	-2.70	1.25 H	209	5.07	46.23
5	#15960.00	56.85 PK	74.00	-17.15	1.26 H	279	11.89	44.96
5	#15960.00	45.29 AV	54.00	-8.71	1.26 H	279	0.33	44.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3546.00	51.65 PK	74.00	-22.35	1.09 V	321	15.80	35.85
1	#3546.00	45.71 AV	54.00	-8.29	1.09 V	321	9.86	35.85
2	*5320.00	112.30 PK			1.19 V	293	73.15	39.15
2	*5320.00	101.16 AV			1.19 V	293	62.01	39.15
3	#5350.00	63.53 PK	74.00	-10.47	1.19 V	293	24.33	39.20
3	#5350.00	52.39 AV	54.00	-1.61	1.19 V	293	13.19	39.20
4	#10640.00	65.98 PK	74.00	-8.02	1.26 V	7	19.75	46.23
4	#10640.00	52.35 AV	54.00	-1.65	1.26 V	7	6.12	46.23
5	#15960.00	60.14 PK	74.00	-13.86	1.34 V	296	15.18	44.96
5	#15960.00	47.02 AV	54.00	-6.98	1.34 V	296	2.06	44.96

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency.
6. “#”The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	9
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5745.00	105.84 PK			1.53 H	107	64.94	40.90
1	*5745.00	95.93 AV			1.53 H	107	55.03	40.90
2	#11490.00	61.01 PK	74.00	-12.99	1.51 H	215	13.63	47.38
2	#11490.00	48.65 AV	54.00	-5.35	1.51 H	215	1.27	47.38

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5745.00	113.73 PK			1.20 V	360	72.83	40.90
1	*5745.00	103.38 AV			1.20 V	360	62.48	40.90
2	#11490.00	66.36 PK	74.00	-7.64	1.22 V	214	18.98	47.38
2	**#11490.00**	**52.75 AV**	**54.00**	**-1.25**	**1.22 V**	**214**	**5.37**	**47.38**

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.
7. The limit value is defined as per 15.247.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	11
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5785.00	103.39 PK			1.13 H	97	62.34	41.05
1	*5785.00	93.20 AV			1.13 H	97	52.15	41.05
2	#11570.00	59.52 PK	74.00	-14.48	1.16 H	360	12.05	47.47
2	#11570.00	47.28 AV	54.00	-6.72	1.16 H	360	-0.19	47.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5785.00	113.55 PK			1.22 V	342	72.50	41.05
1	*5785.00	103.47 AV			1.22 V	342	62.42	41.05
2	#11570.00	66.13 PK	74.00	-7.87	1.27 V	213	18.66	47.47
2	#11570.00	52.28 AV	54.00	-1.72	1.27 V	213	4.81	47.47

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.
7. The limit value is defined as per 15.247.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal Mode	**CHANNEL**	13
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5825.00	104.33 PK			1.42 H	113	63.38	40.95
1	*5825.00	94.95 AV			1.42 H	113	54.00	40.95
2	#11650.00	60.60 PK	74.00	-13.40	1.20 H	29	12.88	47.72
2	#11650.00	47.11 AV	54.00	-6.89	1.20 H	29	-0.61	47.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5825.00	113.02 PK			1.10 V	344	72.07	40.95
1	*5825.00	102.82 AV			1.10 V	344	61.87	40.95
2	#11650.00	64.20 PK	74.00	-9.80	1.10 V	309	16.48	47.72
2	#11650.00	51.72 AV	54.00	-2.28	1.10 V	309	4.00	47.72

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.
7. The limit value is defined as per 15.247.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo Mode	**CHANNEL**	1
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3473.00	48.56 PK	68.30	-19.74	1.07 H	70	12.92	35.64
2	#5150.00	52.69 PK	74.00	-21.31	1.69 H	117	13.59	39.10
2	#5150.00	43.65 AV	54.00	-10.35	1.69 H	117	4.55	39.10
3	*5210.00	100.53 PK			1.69 H	117	61.32	39.21
3	*5210.00	91.49 AV			1.69 H	117	52.28	39.21
4	10420.00	60.47 PK	68.30	-7.83	1.08 H	266	14.70	45.77

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	3473.00	50.48 PK	68.30	-17.82	1.10 V	311	14.84	35.64
2	#5150.00	60.24 PK	74.00	-13.76	1.18 V	322	21.14	39.10
2	#5150.00	50.46 AV	54.00	-3.54	1.18 V	322	11.36	39.10
3	*5210.00	108.08 PK			1.18 V	322	68.87	39.21
3	*5210.00	98.60 AV			1.18 V	322	59.39	39.21
4	10420.00	67.70 PK	68.30	-0.60	1.20 V	20	21.93	45.77
5	#15630.00	60.95 PK	74.00	-13.05	1.27 V	287	12.87	48.08
5	#15630.00	48.75 AV	54.00	-5.25	1.27 V	287	0.67	48.08

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency.
6. “#”The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo Mode	**CHANNEL**	2
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3500.00	49.52 PK	74.00	-24.48	1.64 H	221	13.80	35.72
1	#3500.00	36.98 AV	54.00	-17.02	1.64 H	221	1.26	35.72
2	*5250.00	100.90 PK			1.34 H	117	61.73	39.17
2	*5250.00	90.58 AV			1.34 H	117	51.41	39.17
3	10500.00	62.23 PK	68.30	-6.07	1.30 H	200	16.04	46.19

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3500.00	49.90 PK	74.00	-24.10	1.70 V	1	14.18	35.72
1	#3500.00	40.90 AV	54.00	-13.10	1.70 V	1	5.18	35.72
2	*5250.00	110.94 PK			1.14 V	355	71.77	39.17
2	*5250.00	101.20 AV			1.14 V	355	62.03	39.17
3	10500.00	65.72 PK	68.30	-2.58	1.26 V	22	19.53	46.19
4	#15750.00	61.23 PK	74.00	-12.77	1.32 V	290	13.72	47.51
4	#15750.00	48.27 AV	54.00	-5.73	1.32 V	290	0.76	47.51

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo Mode	**CHANNEL**	3
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3526.00	47.72 PK	74.00	-26.28	1.44 H	269	11.93	35.79
1	#3526.00	36.33 AV	54.00	-17.67	1.44 H	269	0.54	35.79
2	*5290.00	100.31 PK			1.06 H	302	61.18	39.13
2	*5290.00	90.23 AV			1.06 H	302	51.10	39.13
3	#5350.00	50.02 PK	74.00	-23.98	1.06 H	302	10.82	39.20
3	#5350.00	39.94 AV	54.00	-14.06	1.06 H	302	0.74	39.20
4	10580.00	59.32 PK	68.30	-8.98	1.06 H	261	13.25	46.07

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	#3526.00	50.47 PK	74.00	-23.53	1.45 V	357	14.68	35.79
1	#3526.00	42.15 AV	54.00	-11.85	1.45 V	357	6.36	35.79
2	*5290.00	112.08 PK			1.23 V	334	72.95	39.13
2	*5290.00	101.32 AV			1.23 V	334	62.19	39.13
3	#5350.00	61.79 PK	74.00	-12.21	1.23 V	334	22.59	39.20
3	#5350.00	51.03 AV	54.00	-2.97	1.23 V	334	11.83	39.20
4	10580.00	67.35 PK	68.30	-0.95	1.30 V	7	21.28	46.07
5	#15870.00	59.95 PK	74.00	-14.05	1.17 V	292	13.85	46.10
5	#15870.00	46.99 AV	54.00	-7.01	1.17 V	292	0.89	46.10

NOTE:

1. Emission level = Raw value + Correction Factor.
2. Correction Factor = Ant. Factor + Cable loss.
3. Margin value = Emission level - Limit value.
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo Mode	**CHANNEL**	4
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5760.00	104.24 PK			1.33 H	116	63.28	40.96
1	*5760.00	93.82 AV			1.33 H	116	52.86	40.96
2	#11520.00	59.10 PK	74.00	-14.90	1.43 H	32	11.68	47.41
2	#11520.00	46.72 AV	54.00	-7.28	1.43 H	32	-0.70	47.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5760.00	111.57 PK			1.16 V	3	70.78	40.79
1	*5760.00	103.36 AV			1.16 V	3	62.57	40.79
2	#11520.00	65.97 PK	74.00	-8.03	1.48 V	223	18.55	47.41
2	#11520.00	51.71 AV	54.00	-2.29	1.48 V	223	4.29	47.41

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.
7. The limit value is defined as per 15.247.

EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo Mode	**CHANNEL**	5
FREQUENCY RANGE	1 ~ 40 GHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5800.00	104.08 PK			1.29 H	116	62.97	41.11
1	*5800.00	94.34 AV			1.29 H	116	53.23	41.11
2	#11600.00	57.61 PK	74.00	-16.39	1.32 H	298	10.11	47.50
2	#11600.00	46.75 AV	54.00	-7.25	1.32 H	298	-0.75	47.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB)
1	*5800.00	112.21 PK			1.15 V	360	71.10	41.11
1	*5800.00	102.68 AV			1.15 V	360	61.57	41.11
2	#11600.00	64.19 PK	74.00	-9.81	1.22 V	214	16.69	47.50
2	#11600.00	51.72 AV	54.00	-2.28	1.22 V	214	4.22	47.50

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. "#"The radiated frequency falling in the restricted band.
7. The limit value is defined as per 15.247.

FOR FREQUENCY 5.15~5.35GHz

5.3 PEAK TRANSMIT POWER MEASUREMENT

5.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

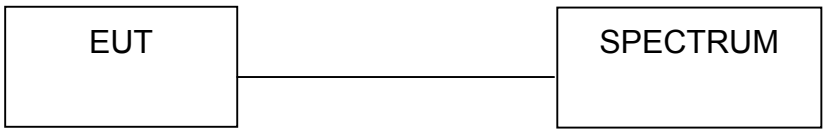
5.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

5.3.4 DEVIATION FROM TEST STANDARD

No deviation.

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

5.3.7 TEST RESULTS

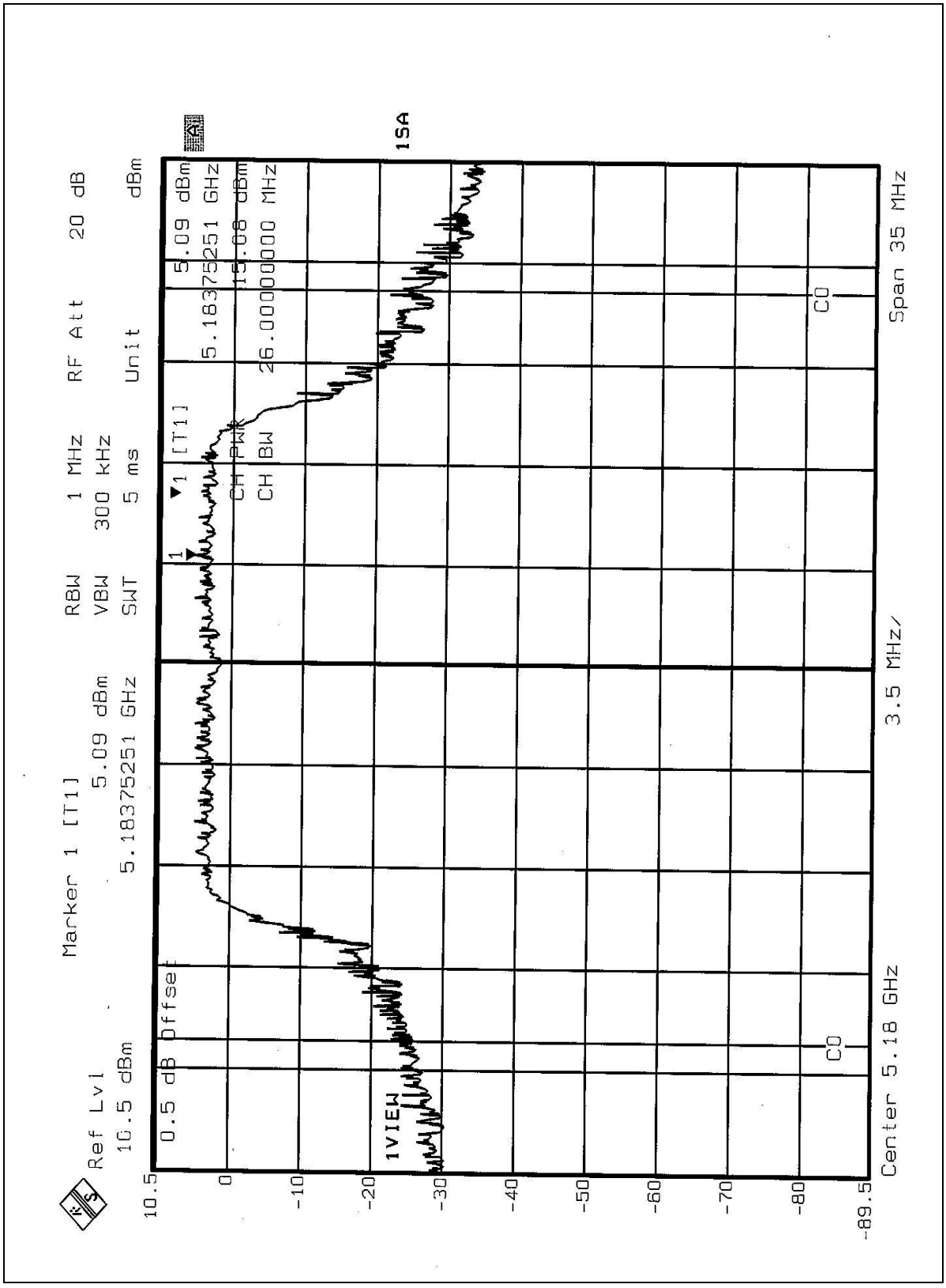
EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Normal	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24 deg. C, 67% RH, 991 hPa	**TESTED BY**	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc OCCUPIED BANDWIDTH (MHz)	PASS/FAIL
1	5180	32.211	15.08	17.00	25.67	PASS
4	5240	40.179	16.04	17.00	26.09	PASS
5	5260	40.272	16.05	24.00	25.11	PASS
8	5320	39.994	16.02	24.00	25.53	PASS

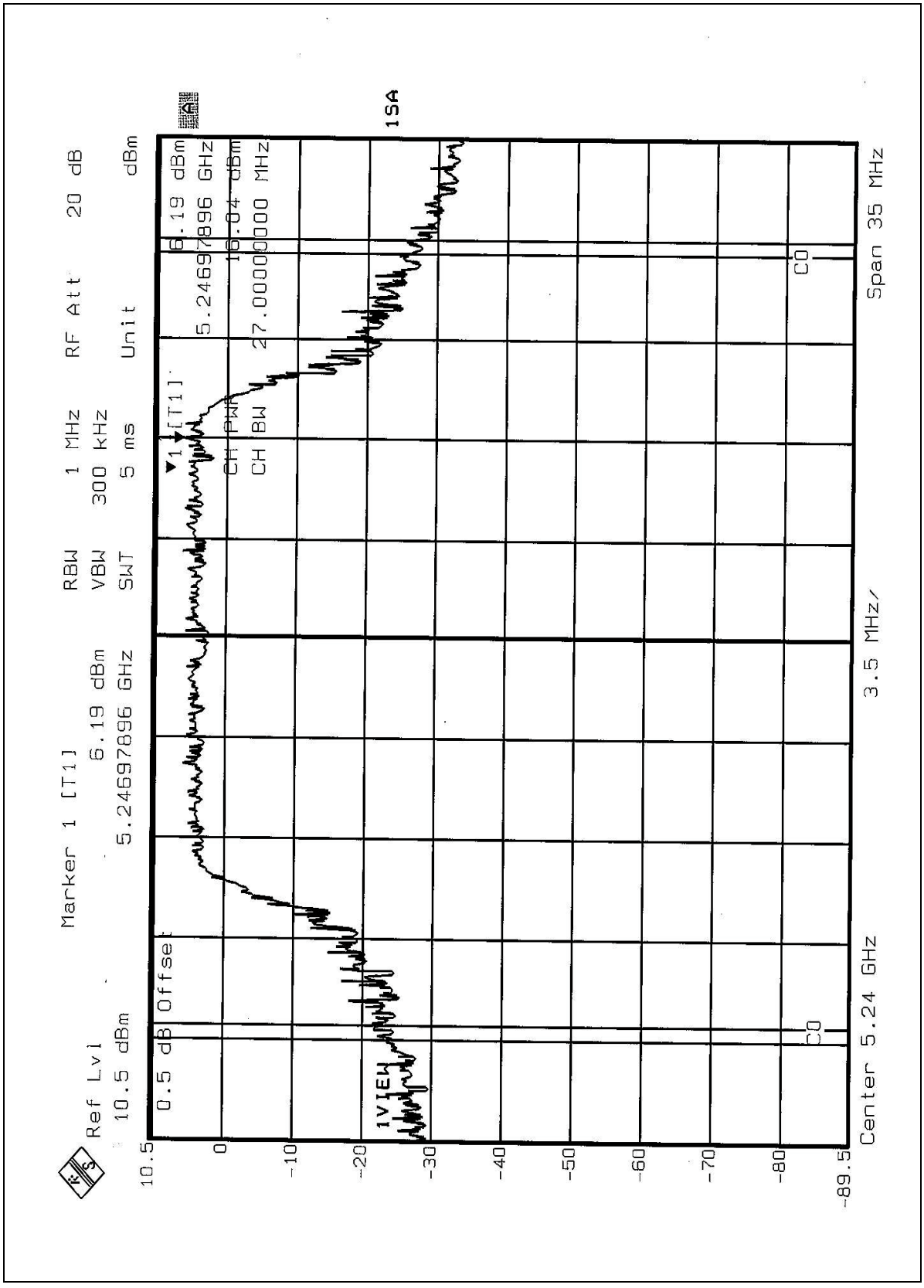
NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:

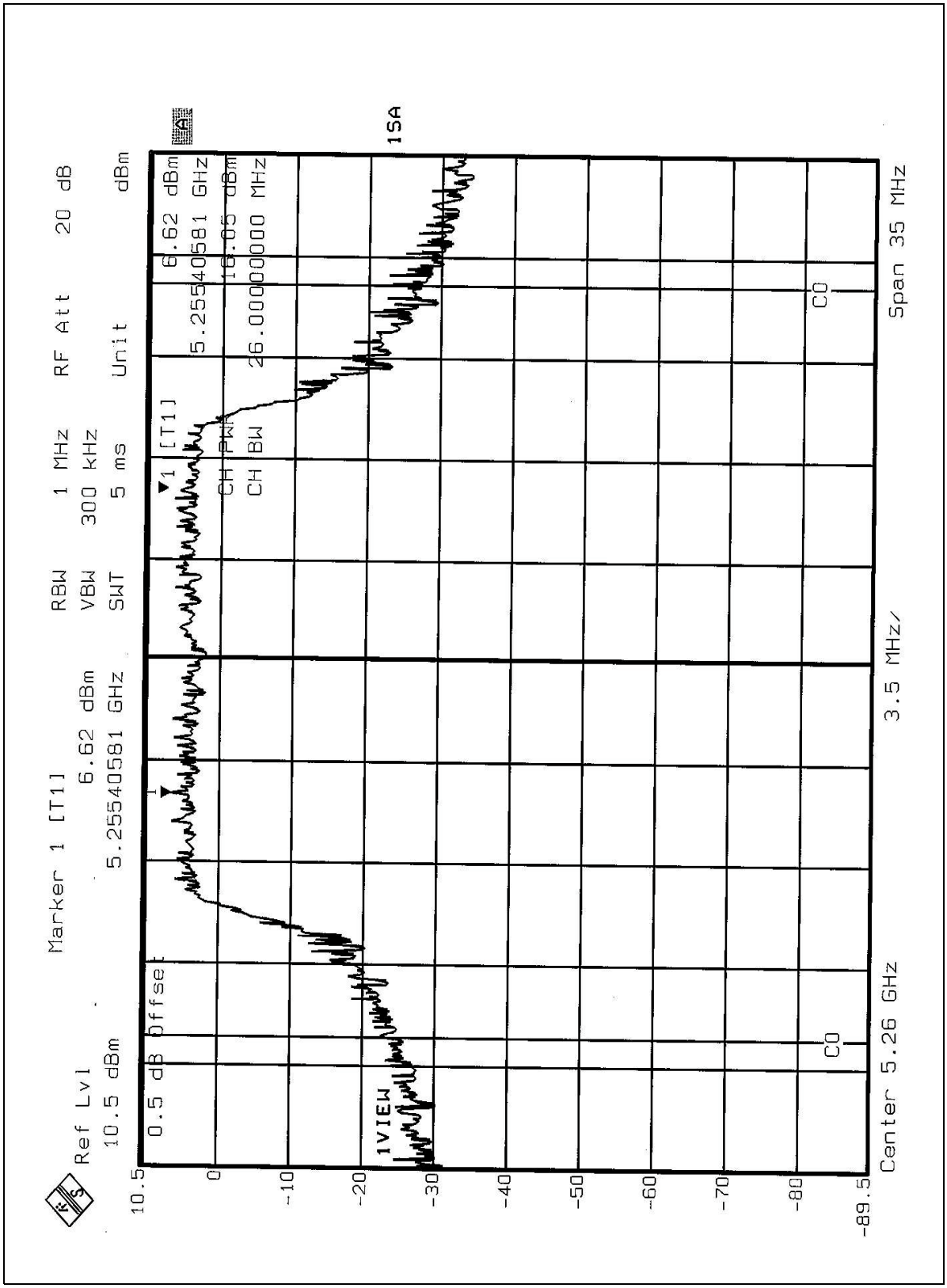
CH1



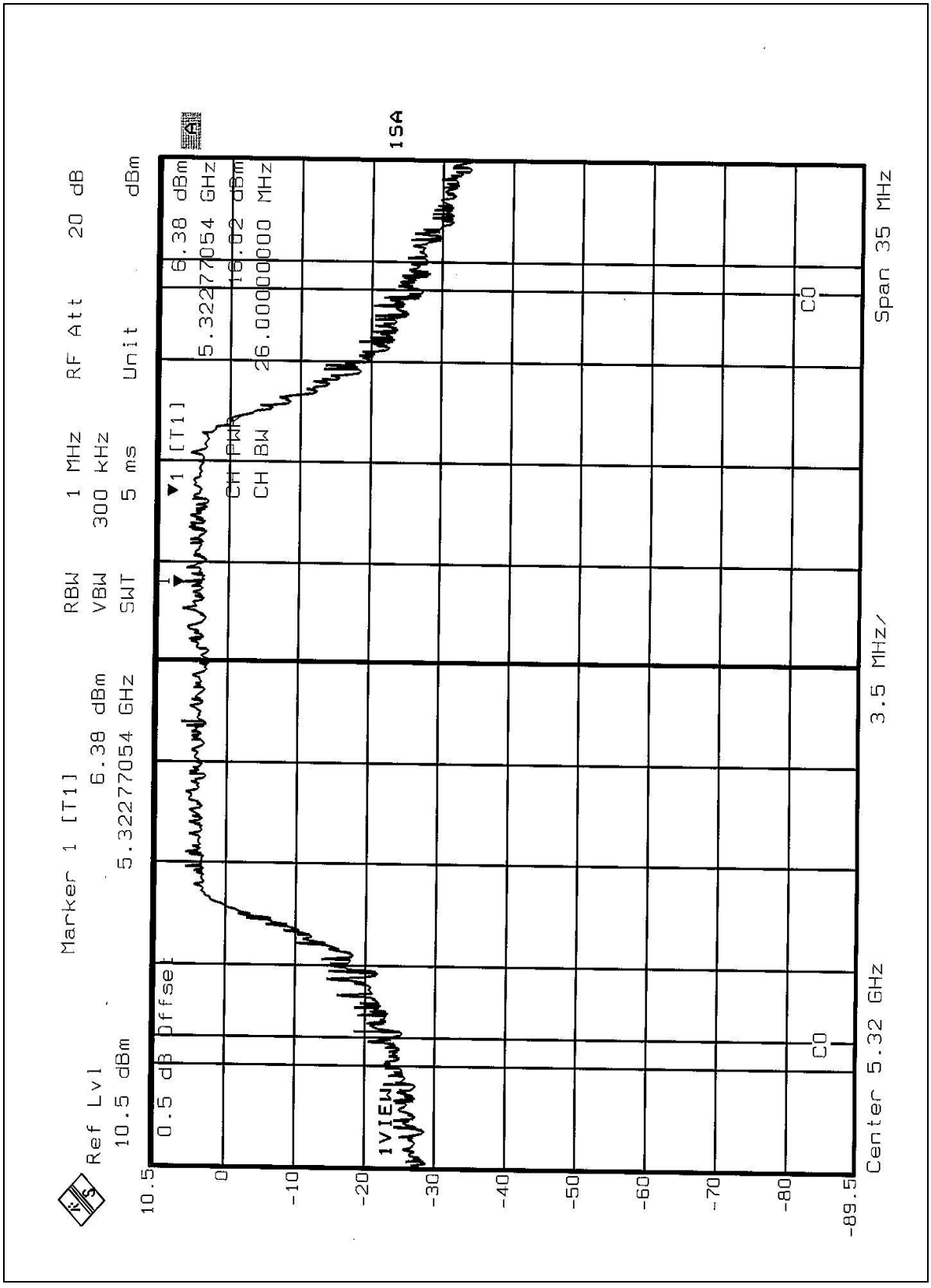
CH4


Marker 1 [T1]
6.19 dBm
5.24697896 GHz
Ref Lvl
10.5 dBm
0.5 dB Offset
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1 [T1]
6.19 dBm
5.24697896 GHz
CH PWR 16.04 dBm
CH BW 27.000000000 MHz
1SA
1VIEW
CO
Center 5.24 GHz
3.5 MHz/
Span 35 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH5

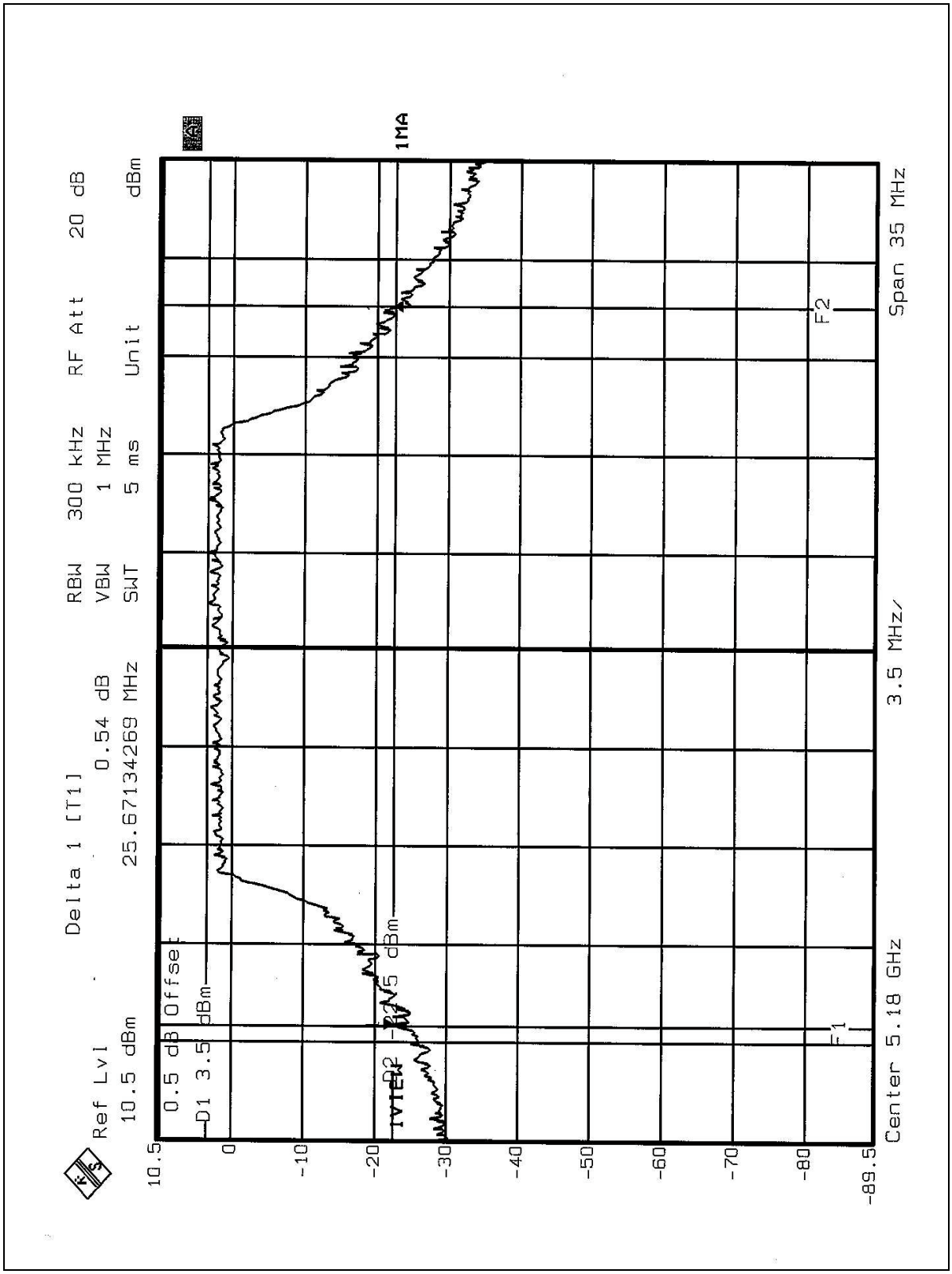

Marker 1 [T1]
6.62 dBm
5.25540581 GHz
Ref Lvl
10.5 dBm
0.5 dB Offset
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1VIEW
1SA
CH PWR
6.62 dBm
CH BW
16.05 dBm
5.25540581 GHz
26.000000000 MHz
Center 5.26 GHz
3.5 MHz/
Span 35 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH8

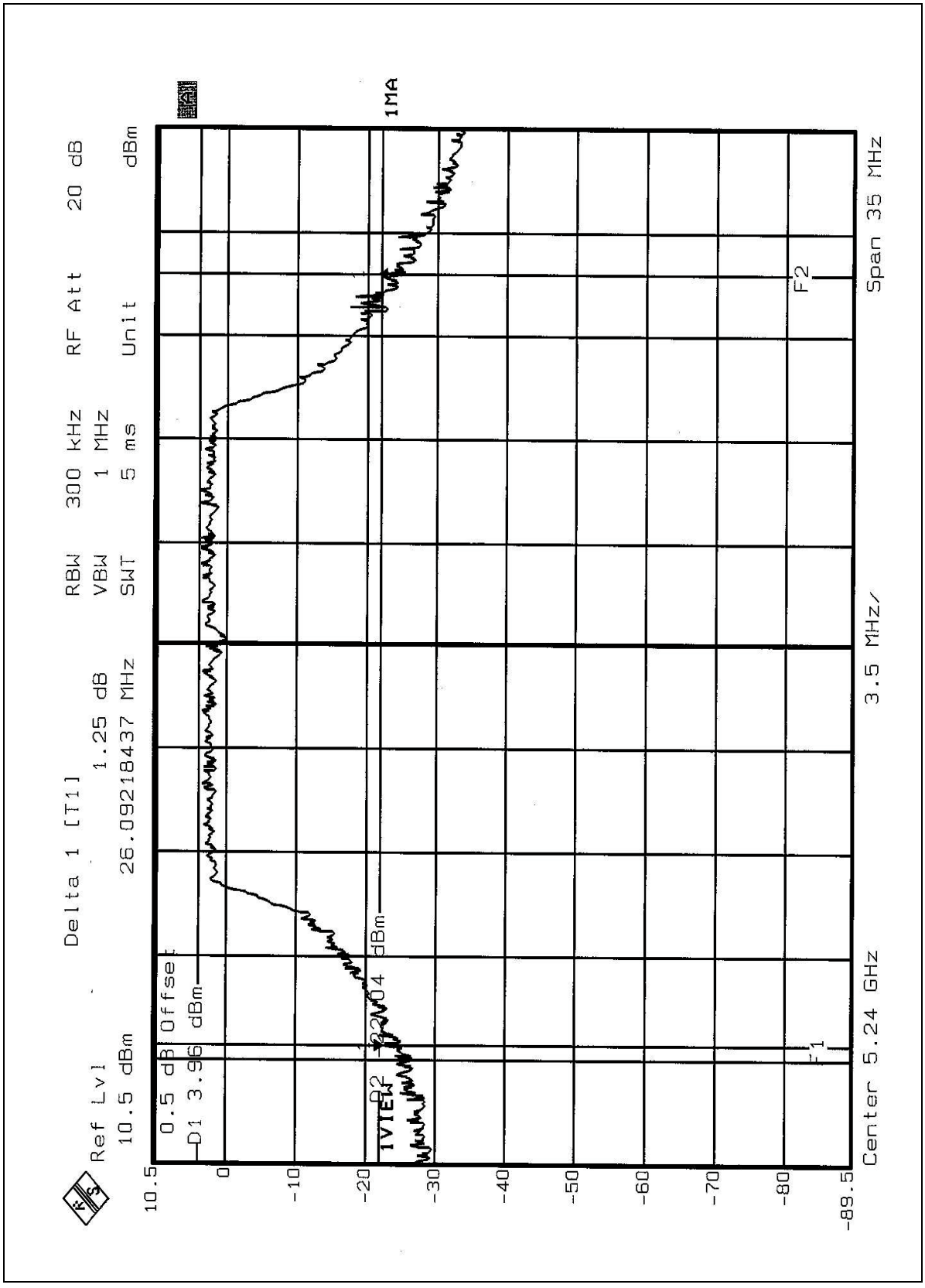

Marker 1 [T1]
6.38 dBm
5.32277054 GHz
Ref Lvl
10.5 dBm
0.5 dB Offset
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1SA
1VIEW
CH PWR
CH BW
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

26dB Occupied Bandwidth:

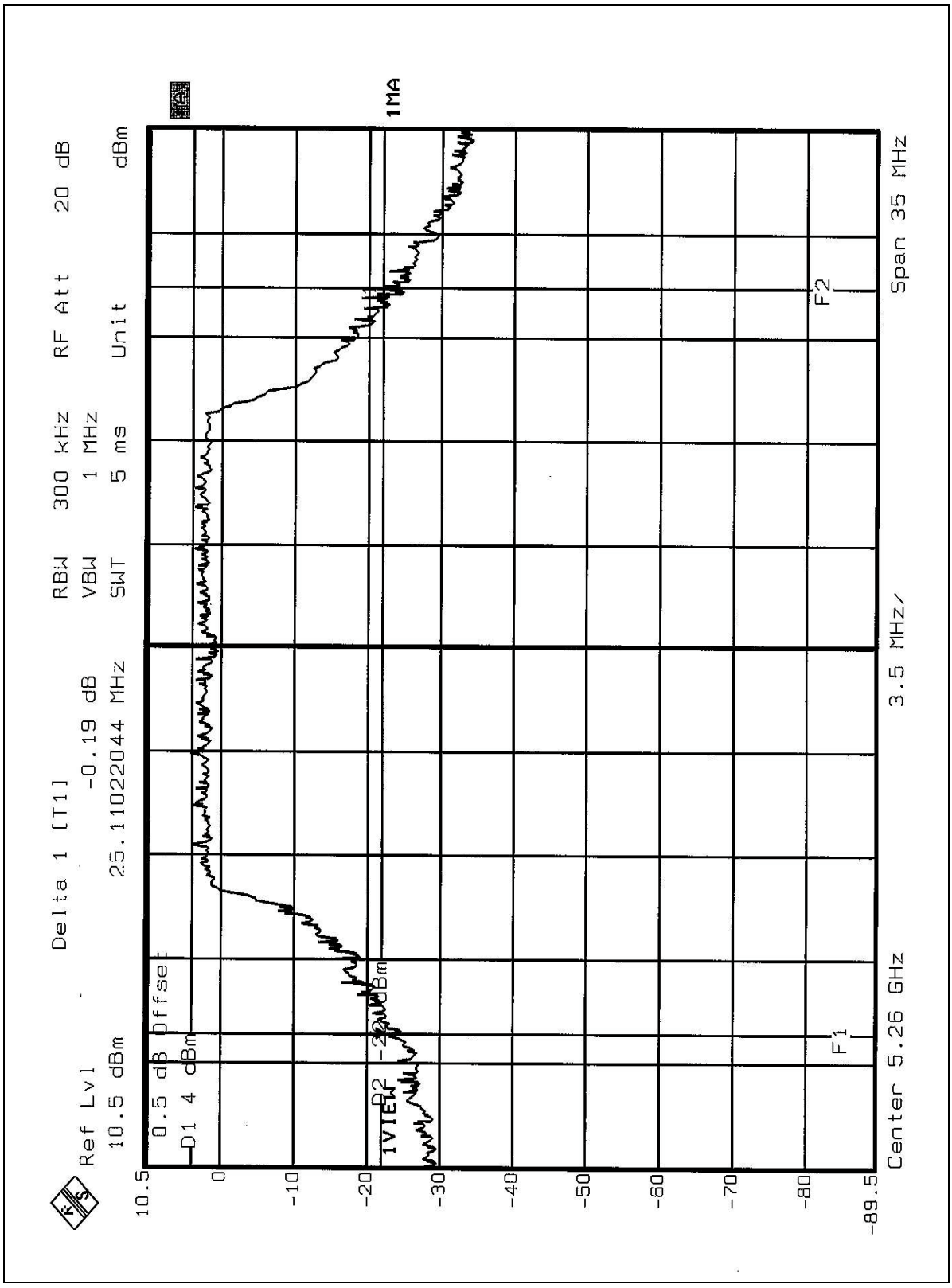
CH1



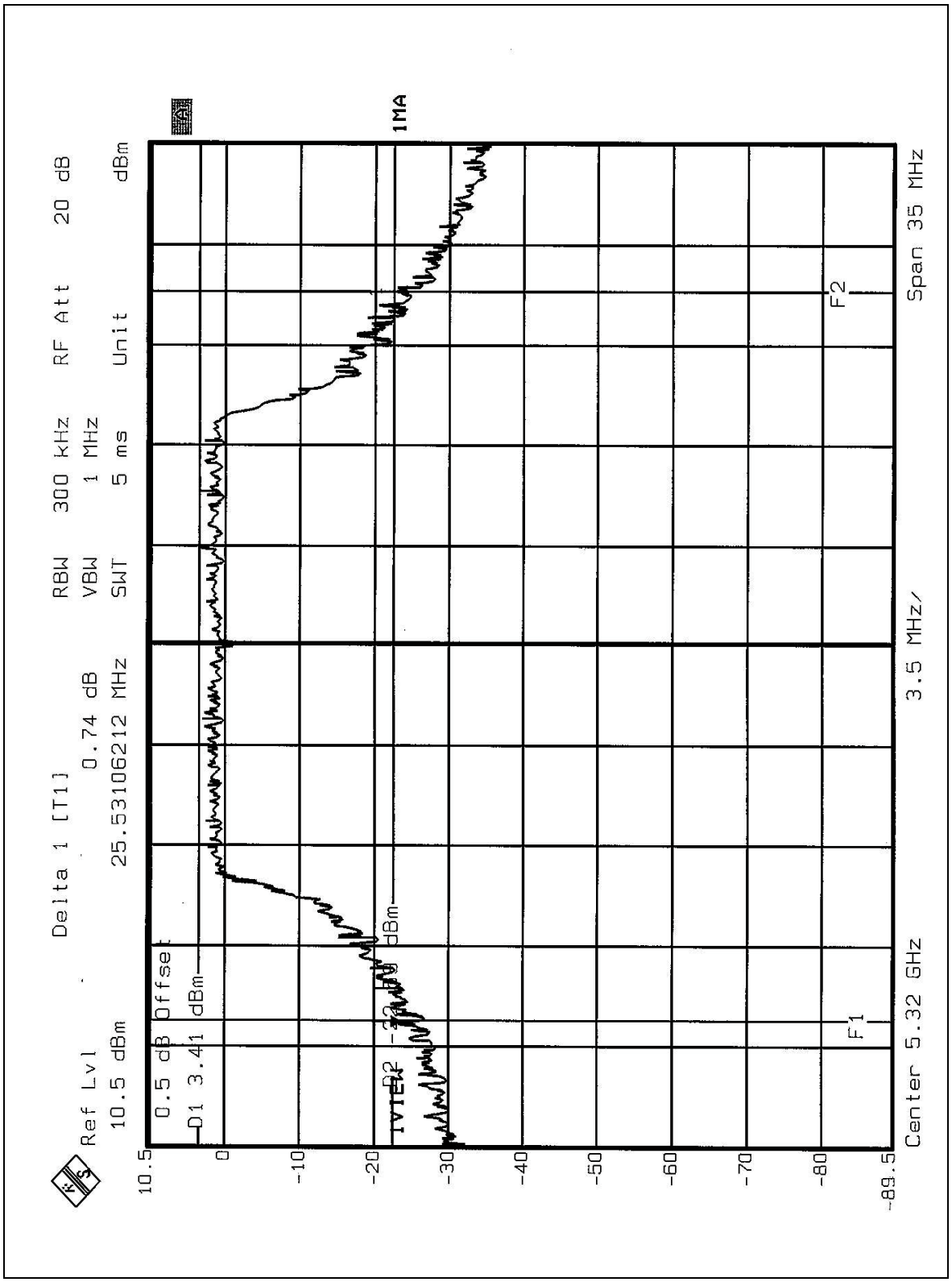
CH4


Ref Lvl
10.5 dBm
Offset
0.5 dB
D1 3.96 dBm
Delta 1 [T1]
1.25 dB
26.09218437 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1MA
F2
F1
Span 35 MHz
3.5 MHz/
Center 5.24 GHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH5


Delta 1 [T1]
-0.19 dB
25.11022044 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 4 dBm
1MA
1VIEW
D2 -2 dBm
F1
F2
Center 5.26 GHz
3.5 MHz/
Span 35 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH8


Delta 1 [T1]
0.74 dB
25.53106212 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 3.41 dBm
1MA
F1
F2
Center 5.32 GHz
3.5 MHz/
Span 35 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

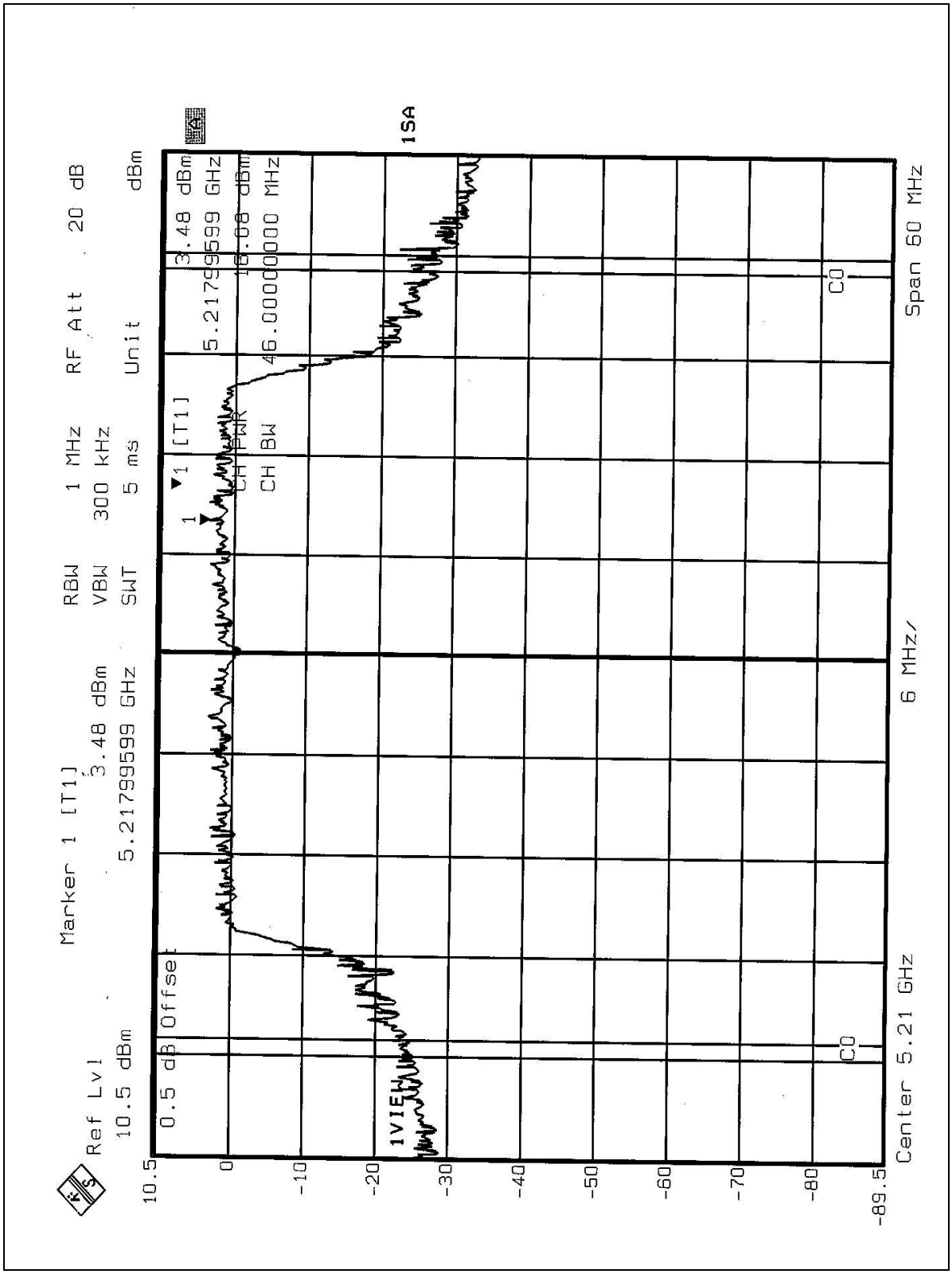
EUT	Wireless A+G Broadband Router	**MODEL**	WRT55AG ver. 2
MODE	Turbo	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24 deg. C, 67% RH, 991 hPa	**TESTED BY**	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc OCCUPIED BANDWIDTH (MHz)	PASS/FAIL
1	5210	40.551	16.08	17.00	45.45	PASS
2	5250	39.811	16.00	17.00	44.49	PASS
3	5290	40.926	16.12	24.00	46.89	PASS

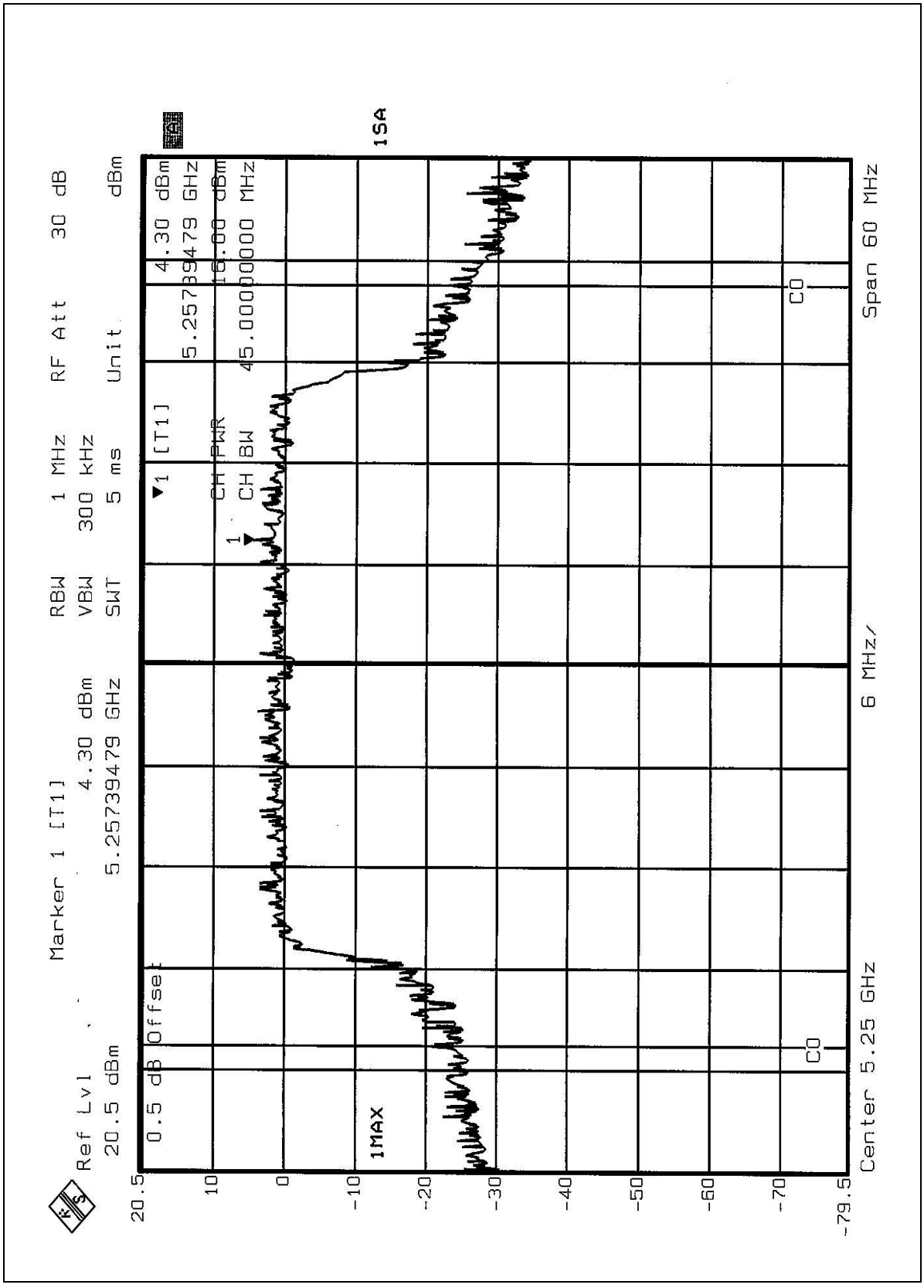
NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:

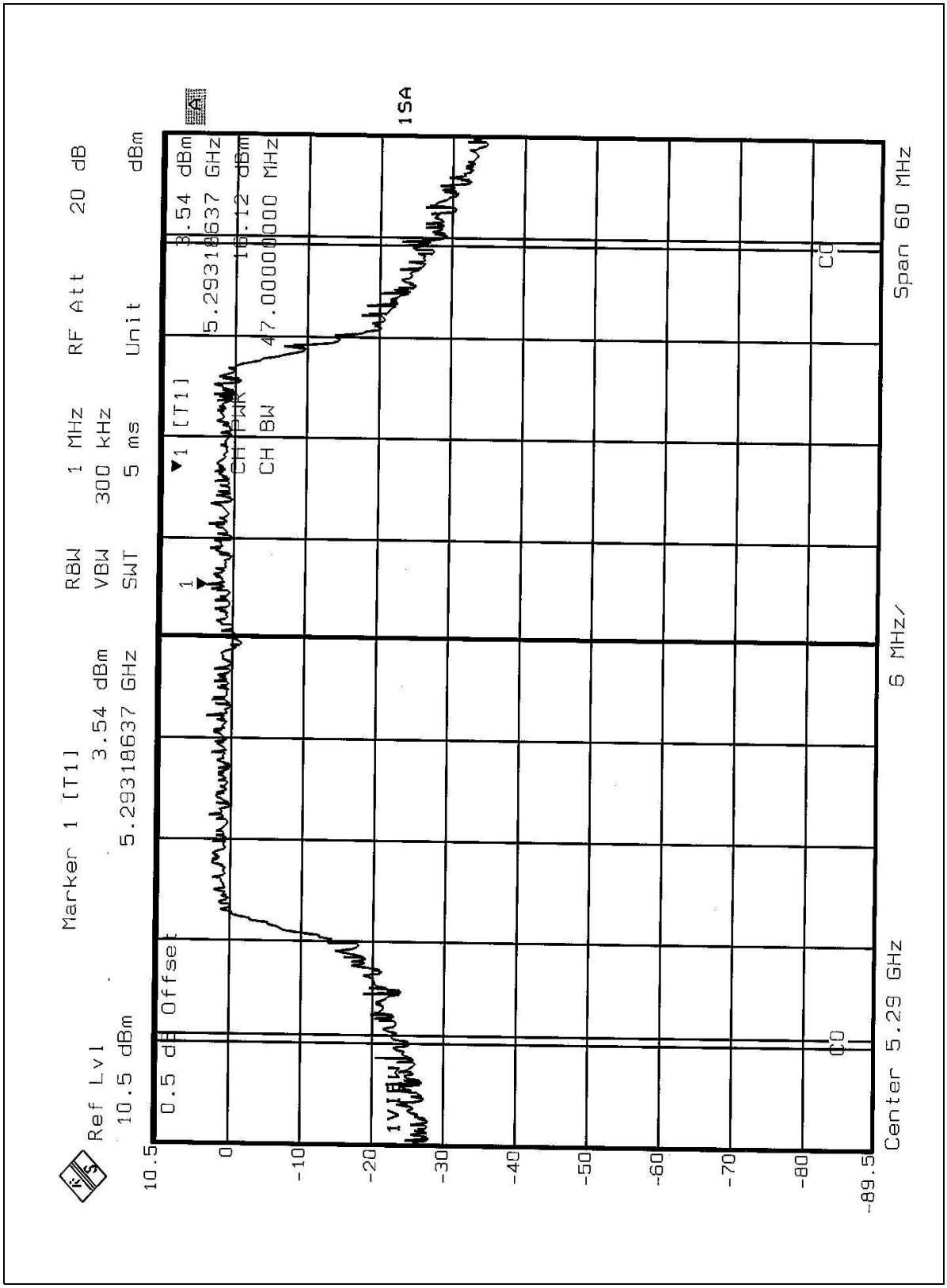
CH1



CH2

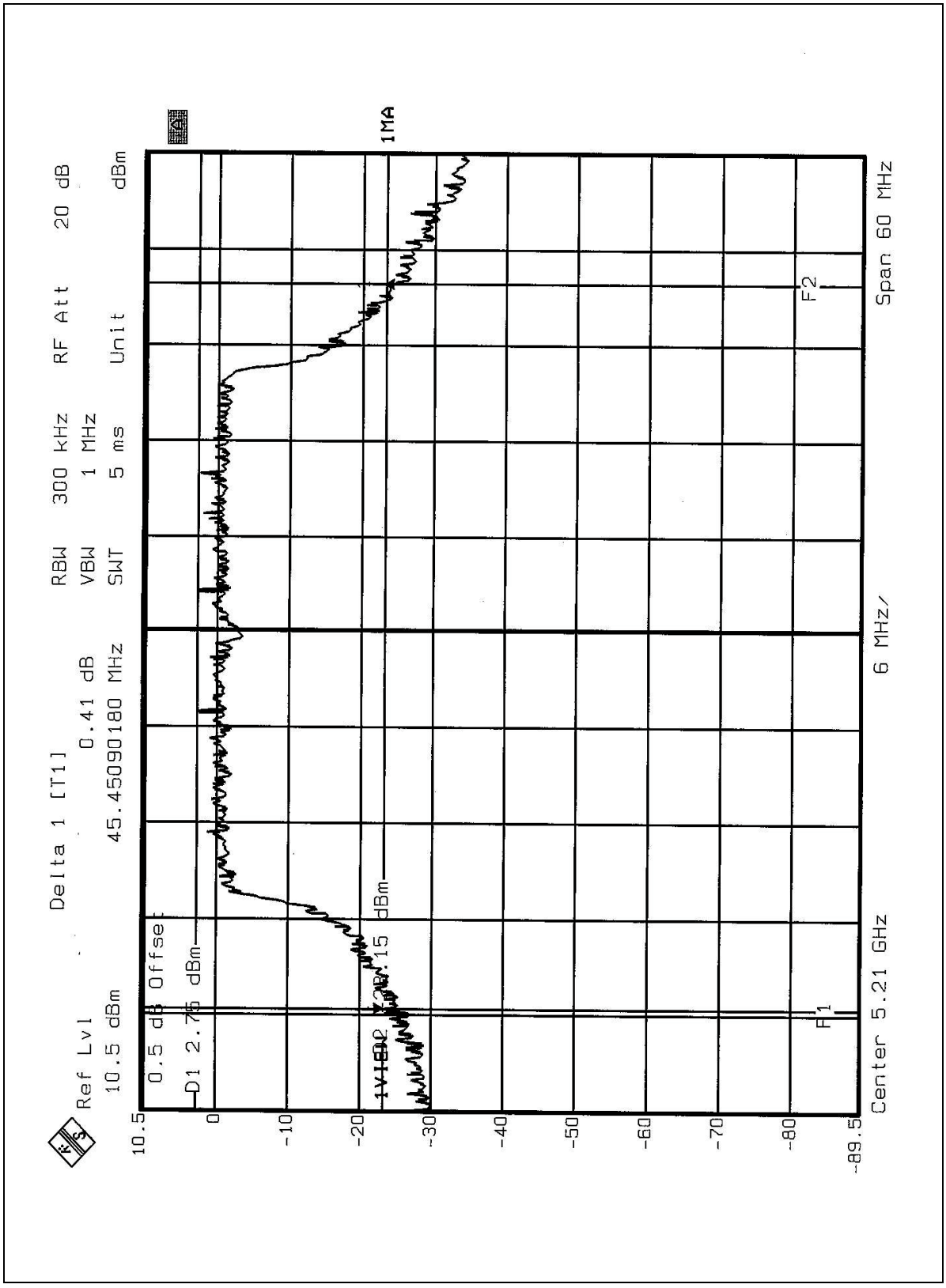

Marker 1 [T1]
4.30 dBm
5.25739479 GHz
Ref Lvl
20.5 dBm
0.5 dB Offset
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1SA
1MAX
CH PWR
CH BW
Center 5.25 GHz
6 MHz/
Span 60 MHz

CH3

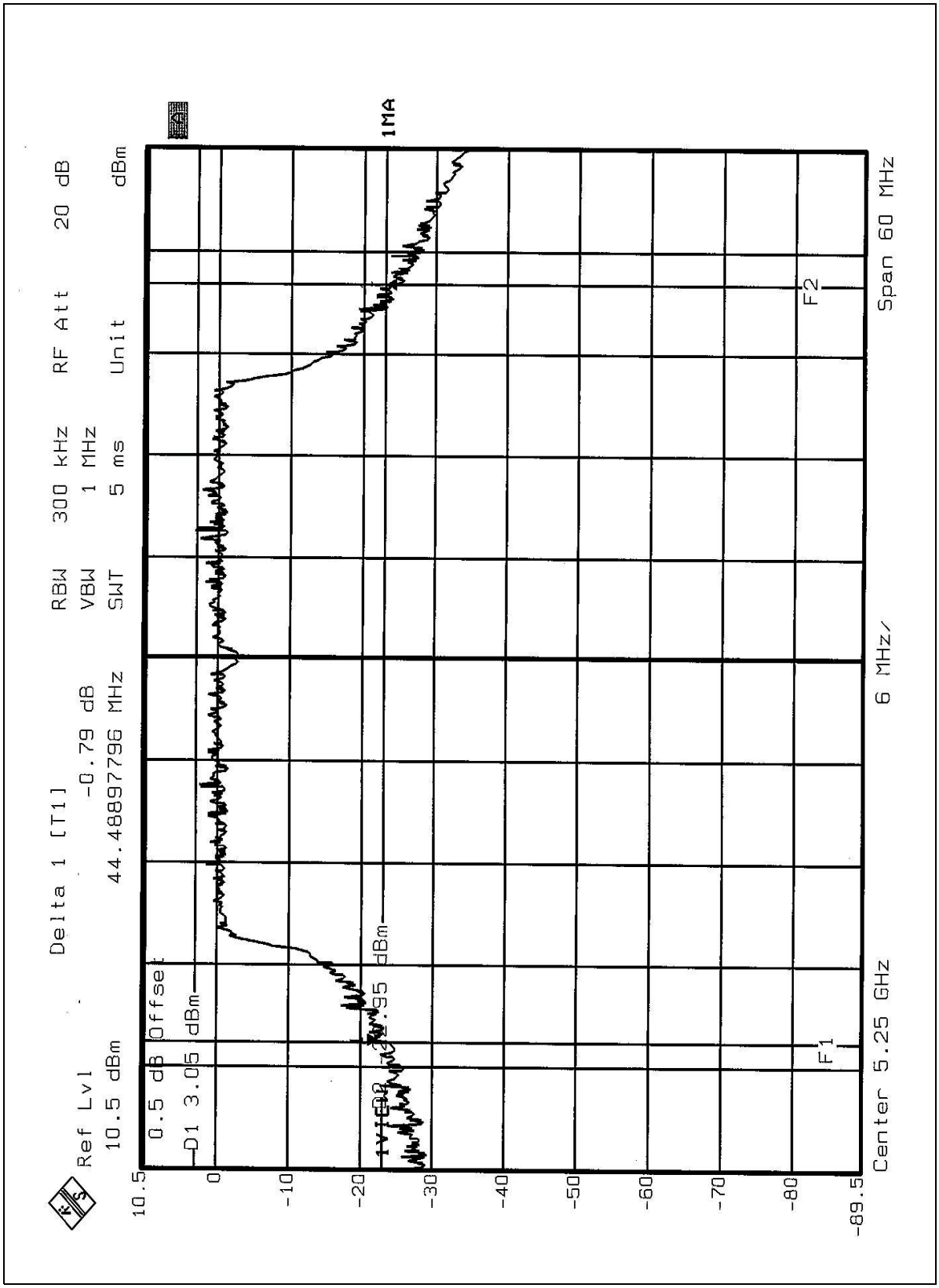

Marker 1 [T1]
3.54 dBm
5.29318637 GHz
Ref Lvl
10.5 dBm
0.5 dB Offset
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1SA
1 [T1]
3.54 dBm
5.29318637 GHz
CH PWR 10.12 dBm
CH BW 47.000000000 MHz
Center 5.29 GHz
6 MHz/
Span 60 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

26dB Occupied Bandwidth:

CH1



CH2


Delta 1 [T1]
-0.79 dB
44.48897796 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 3.05 dBm
1MA
F1
F2
Center 5.25 GHz
6 MHz/
Span 60 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5