

MEASUREMENT OF OCCUPIED BANDWIDTH

SECTION 24.238(b) – Measurement 3A

SECTION 2.1049 – Measurement 3B

MEASUREMENT: 3A**SECTION 24.238(b)****MEASUREMENT OF OCCUPIED BANDWIDTH**

The occupied bandwidth of the FCC ID: AS5BTS2K-01 "GSM 1900 Transceiver" model SRFU19 was measured using a HP 8563E Spectrum Analyzer and an HP Model 7470A Plotter. The Hp 8563E is designed to measure 99% power bandwidth. The measurements were made for Left Edge, and Right Edge of each PCS band.

Section 24.238(b) requires that Resolution Bandwidth (RBW) of at least 1% of emission bandwidth be used to demonstrate RF antenna conducted out-of-band emission compliance at the frequency block edges. Therefore occupied Bandwidth measurements in this section are required to determine RBW at band edges for Measurement 4, Spurious emissions at Antenna Terminals Section (2.1051)

Results: The plots are provided for Left and Right edges of each PCS band. The Measured 99% power bandwidth is 244 kHz. This determines:

- (1) Emission type : 244KGXW
- (2) Spectrum Analyzer RBW for measurement of antenna conducted emissions in the 1 MHz bands immediately outside and adjacent to the frequency block. A RBW of 10 kHz in 1 MHz band immediately outside and adjacent to frequency blocks was used for Measurement 4.

MEASUREMENT: 3B**SECTION 2.1049****MEASUREMENT OF OCCUPIED BANDWIDTH**

The occupied bandwidth of the FCC ID: AS5BTS2K-01 "GSM 1900 Transceiver" model SRFU19 was measured using a Rohde & Schwarz FSEK Spectrum Analyzer and an HP Model 520 DeskJet Printer. The RF power level was measured using a RF power meter as shown in the test setup in Figure 3A and 3B. The Figure 3A shows occupied Bandwidth measurement after the combiner and Figure 3B shows occupied Bandwidth before the combiner. The RF output from the transmitter to spectrum analyzer was reduced (to an amplitude usable by the spectrum analyzer) by using a calibrated attenuator. The reference line on the spectrum analyzer display correspond to level measured by the RF power meter.

The channel allocations with corresponding frequencies are given in the next page. The channels are available on each authorized frequency blocks are also indicated. The frequencies and channels used are tabulated on the bottom of each plot. Output signal is plotted for a frequency span of 2.4 MHz with channel frequency as center. Plots are provided for Left Edge, Center and Right Edge of each PCS band. These frequencies were chosen to show the occupied bandwidth in the channels in each of the PCS in which this radio can be operated, in compliance with Section 24.229 and 24.238 (c) of the Commission code.

The measurement procedure and specification limits for Occupied Bandwidth are indicated in Section 4.2.1 "spectrum due to the modulation and wide band noise" and Figure A.6a: PCS 1900 BTS Modulation and Noise Spectrum Mask due to GMSK Modulation" of GSM 05.05 "European Standard (Telecommunication Series); Digital Cellular Telecommunication System (Phase 2+); Radio Transmission and Reception" (Release 1999). The measurements were made in accordance with GSM 05.05 using 30 kHz Spectrum Analyzer Resolution Bandwidth. The Resolution Bandwidth setting also meets commissions rule indicated in paragraph 24.238(b) "in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. For conducted spurious emission tests (See Measurement: 4) a resolution bandwidth of 1 MHz is used throughout."

APPLICANT: Lucent Technologies Inc.

FCC ID: AS5BTS2K-01

Frequency range of PCS 1900 (n =512...810)

$$dl(n) = 1930.2 + 0.2*(n - 512)/MHz$$

$$ul(n) = 1850.2 + 0.2*(n - 512)/MHz$$

n	uplink	bl	downlink																												
512	1850,2	x	1930,2	550	1857,8	A	1937,8	588	1865,4	D	1945,4	626	1873,0	B	1953,0	664	1880,6	B	1960,6	702	1888,2	E	1968,2	740	1895,8	C	1975,8	778	1903,4	C	1983,4
513	1850,4	A	1930,4	551	1858,0	A	1938,0	589	1865,6	D	1945,6	627	1873,2	B	1953,2	665	1880,8	B	1960,8	703	1888,4	E	1968,4	741	1896,0	C	1976,0	779	1903,6	C	1983,6
514	1850,6	A	1930,6	552	1858,2	A	1938,2	590	1865,8	D	1945,8	628	1873,4	B	1953,4	666	1881,0	B	1961,0	704	1888,6	E	1968,6	742	1896,2	C	1976,2	780	1903,8	C	1983,8
515	1850,8	A	1930,8	553	1858,4	A	1938,4	591	1866,0	D	1946,0	629	1873,6	B	1953,6	667	1881,2	B	1961,2	705	1888,8	E	1968,8	743	1896,4	C	1976,4	781	1904,0	C	1984,0
516	1851,0	A	1931,0	554	1858,6	A	1938,6	592	1866,2	D	1946,2	630	1873,8	B	1953,8	668	1881,4	B	1961,4	706	1889,0	E	1969,0	744	1896,6	C	1976,6	782	1904,2	C	1984,2
517	1851,2	A	1931,2	555	1858,8	A	1938,8	593	1866,4	D	1946,4	631	1874,0	B	1954,0	669	1881,6	B	1961,6	707	1889,2	E	1969,2	745	1896,8	C	1976,8	783	1904,4	C	1984,4
518	1851,4	A	1931,4	556	1859,0	A	1939,0	594	1866,6	D	1946,6	632	1874,2	B	1954,2	670	1881,8	B	1961,8	708	1889,4	E	1969,4	746	1897,0	C	1977,0	784	1904,6	C	1984,6
519	1851,6	A	1931,6	557	1859,2	A	1939,2	595	1866,8	D	1946,8	633	1874,4	B	1954,4	671	1882,0	B	1962,0	709	1889,6	E	1969,6	747	1897,2	C	1977,2	785	1904,8	C	1984,8
520	1851,8	A	1931,8	558	1859,4	A	1939,4	596	1867,0	D	1947,0	634	1874,6	B	1954,6	672	1882,2	B	1962,2	710	1889,8	x	1969,8	748	1897,4	C	1977,4	786	1905,0	C	1985,0
521	1852,0	A	1932,0	559	1859,6	A	1939,6	597	1867,2	D	1947,2	635	1874,8	B	1954,8	673	1882,4	B	1962,4	711	1890,0	x	1970,0	749	1897,6	C	1977,6	787	1905,2	C	1985,2
522	1852,2	A	1932,2	560	1859,8	A	1939,8	598	1867,4	D	1947,4	636	1875,0	B	1955,0	674	1882,6	B	1962,6	712	1890,2	x	1970,2	750	1897,8	C	1977,8	788	1905,4	C	1985,4
523	1852,4	A	1932,4	561	1860,0	A	1940,0	599	1867,6	D	1947,6	637	1875,2	B	1955,2	675	1882,8	B	1962,8	713	1890,4	F	1970,4	751	1898,0	C	1978,0	789	1905,6	C	1985,6
524	1852,6	A	1932,6	562	1860,2	A	1940,2	600	1867,8	D	1947,8	638	1875,4	B	1955,4	676	1883,0	B	1963,0	714	1890,6	F	1970,6	752	1898,2	C	1978,2	790	1905,8	C	1985,8
525	1852,8	A	1932,8	563	1860,4	A	1940,4	601	1868,0	D	1948,0	639	1875,6	B	1955,6	677	1883,2	B	1963,2	715	1890,8	F	1970,8	753	1898,4	C	1978,4	791	1906,0	C	1986,0
526	1853,0	A	1933,0	564	1860,6	A	1940,6	602	1868,2	D	1948,2	640	1875,8	B	1955,8	678	1883,4	B	1963,4	716	1891,0	F	1971,0	754	1898,6	C	1978,6	792	1906,2	C	1986,2
527	1853,2	A	1933,2	565	1860,8	A	1940,8	603	1868,4	D	1948,4	641	1876,0	B	1956,0	679	1883,6	B	1963,6	717	1891,2	F	1971,2	755	1898,8	C	1978,8	793	1906,4	C	1986,4
528	1853,4	A	1933,4	566	1861,0	A	1941,0	604	1868,6	D	1948,6	642	1876,2	B	1956,2	680	1883,8	B	1963,8	718	1891,4	F	1971,4	756	1899,0	C	1979,0	794	1906,6	C	1986,6
529	1853,6	A	1933,6	567	1861,2	A	1941,2	605	1868,8	D	1948,8	643	1876,4	B	1956,4	681	1884,0	B	1964,0	719	1891,6	F	1971,6	757	1899,2	C	1979,2	795	1906,8	C	1986,8
530	1853,8	A	1933,8	568	1861,4	A	1941,4	606	1869,0	D	1949,0	644	1876,6	B	1956,6	682	1884,2	B	1964,2	720	1891,8	F	1971,8	758	1899,4	C	1979,4	796	1907,0	C	1987,0
531	1854,0	A	1934,0	569	1861,6	A	1941,6	607	1869,2	D	1949,2	645	1876,8	B	1956,8	683	1884,4	B	1964,4	721	1892,0	F	1972,0	759	1899,6	C	1979,6	797	1907,2	C	1987,2
532	1854,2	A	1934,2	570	1861,8	A	1941,8	608	1869,4	D	1949,4	646	1877,0	B	1957,0	684	1884,6	B	1964,6	722	1892,2	F	1972,2	760	1899,8	C	1979,8	798	1907,4	C	1987,4
533	1854,4	A	1934,4	571	1862,0	A	1942,0	609	1869,6	D	1949,6	647	1877,2	B	1957,2	685	1884,8	x	1964,8	723	1892,4	F	1972,4	761	1900,0	C	1980,0	799	1907,6	C	1987,6
534	1854,6	A	1934,6	572	1862,2	A	1942,2	610	1869,8	x	1949,8	648	1877,4	B	1957,4	686	1885,0	x	1965,0	724	1892,6	F	1972,6	762	1900,2	C	1980,2	800	1907,8	C	1987,8
535	1854,8	A	1934,8	573	1862,4	A	1942,4	611	1870,0	x	1950,0	649	1877,6	B	1957,6	687	1885,2	x	1965,2	725	1892,8	F	1972,8	763	1900,4	C	1980,4	801	1908,0	C	1988,0
536	1855,0	A	1935,0	574	1862,6	A	1942,6	612	1870,2	x	1950,2	650	1877,8	B	1957,8	688	1885,4	E	1965,4	726	1893,0	F	1973,0	764	1900,6	C	1980,6	802	1908,2	C	1988,2
537	1855,2	A	1935,2	575	1862,8	A	1942,8	613	1870,4	B	1950,4	651	1878,0	B	1958,0	689	1885,6	E	1965,6	727	1893,2	F	1973,2	765	1900,8	C	1980,8	803	1908,4	C	1988,4
538	1855,4	A	1935,4	576	1863,0	A	1943,0	614	1870,6	B	1950,6	652	1878,2	B	1958,2	690	1885,8	E	1965,8	728	1893,4	F	1973,4	766	1901,0	C	1981,0	804	1908,6	C	1988,6
539	1855,6	A	1935,6	577	1863,2	A	1943,2	615	1870,8	B	1950,8	653	1878,4	B	1958,4	691	1886,0	E	1966,0	729	1893,6	F	1973,6	767	1901,2	C	1981,2	805	1908,8	C	1988,8
540	1855,8	A	1935,8	578	1863,4	A	1943,4	616	1871,0	B	1951,0	654	1878,6	B	1958,6	692	1886,2	E	1966,2	730	1893,8	F	1973,8	768	1901,4	C	1981,4	806	1909,0	C	1989,0
541	1856,0	A	1936,0	579	1863,6	A	1943,6	617	1871,2	B	1951,2	655	1878,8	B	1958,8	693	1886,4	E	1966,4	731	1894,0	F	1974,0	769	1901,6	C	1981,6	807	1909,2	C	1989,2
542	1856,2	A	1936,2	580	1863,8	A	1943,8	618	1871,4	B	1951,4	656	1879,0	B	1959,0	694	1886,6	E	1966,6	732	1894,2	F	1974,2	770	1901,8	C	1981,8	808	1909,4	C	1989,4
543	1856,4	A	1936,4	581	1864,0	A	1944,0	619	1871,6	B	1951,6	657	1879,2	B	1959,2	695	1886,8	E	1966,8	733	1894,4	F	1974,4	771	1902,0	C	1982,0	809	1909,6	C	1989,6
544	1856,6	A	1936,6	582	1864,2	A	1944,2	620	1871,8	B	1951,8	658	1879,4	B	1959,4	696	1887,0	E	1967,0	734	1894,6	F	1974,6	772	1902,2	C	1982,2	810	1909,8	x	1989,8
545	1856,8	A	1936,8	583	1864,4	A	1944,4	621	1872,0	B	1952,0	659	1879,6	B	1959,6	697	1887,2	E	1967,2	735	1894,8	x	1974,8	773	1902,4	C	1982,4				
546	1857,0	A	1937,0	584	1864,6	A	1944,6	622	1872,2	B	1952,2	660	1879,8	B	1959,8	698	1887,4	E	1967,4	736	1895,0	x	1975,0	774	1902,6	C	1982,6				
547	1857,2	A	1937,2	585	1864,8	x	1944,8	623	1872,4	B	1952,4	661	1880,0	B	1960,0	699	1887,6	E	1967,6	737	1895,2	x	1975,2	775	1902,8	C	1982,8				
548	1857,4	A	1937,4	586	1865,0	x	1945,0	624	1872,6	B	1952,6	662	1880,2	B	1960,2	700	1887,8	E	1967,8	738	1895,4	C	1975,4	776	1903,0	C	1983,0				
549	1857,6	A	1937,6	587	1865,2	x	1945,2	625	1872,8																						

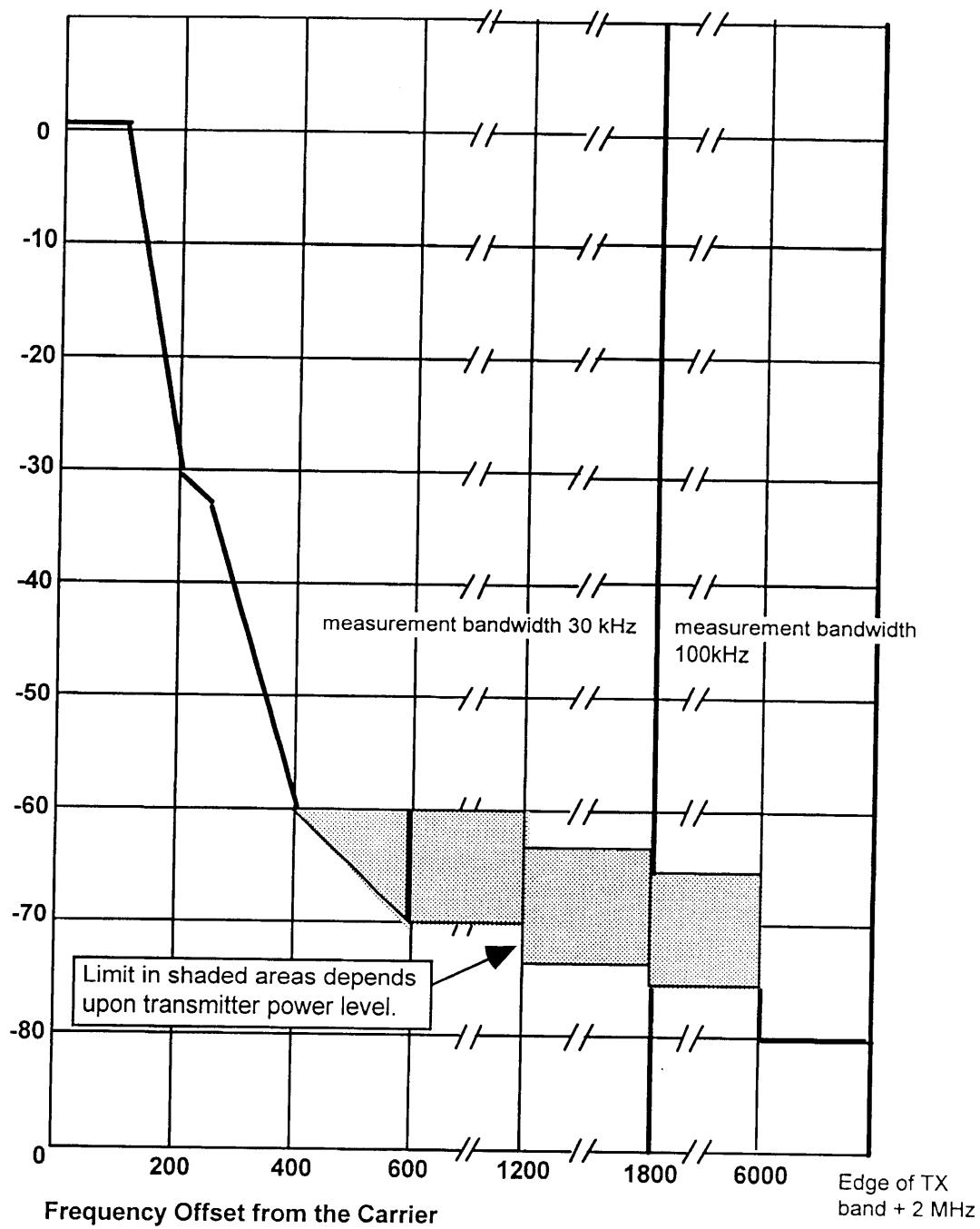


Figure A.6a: PCS 1900 BTS Modulation & Noise Spectrum Mask due to GMSK modulation

Figure 3A TEST CONFIGURATION FOR OCCUPIED BANDWIDTH

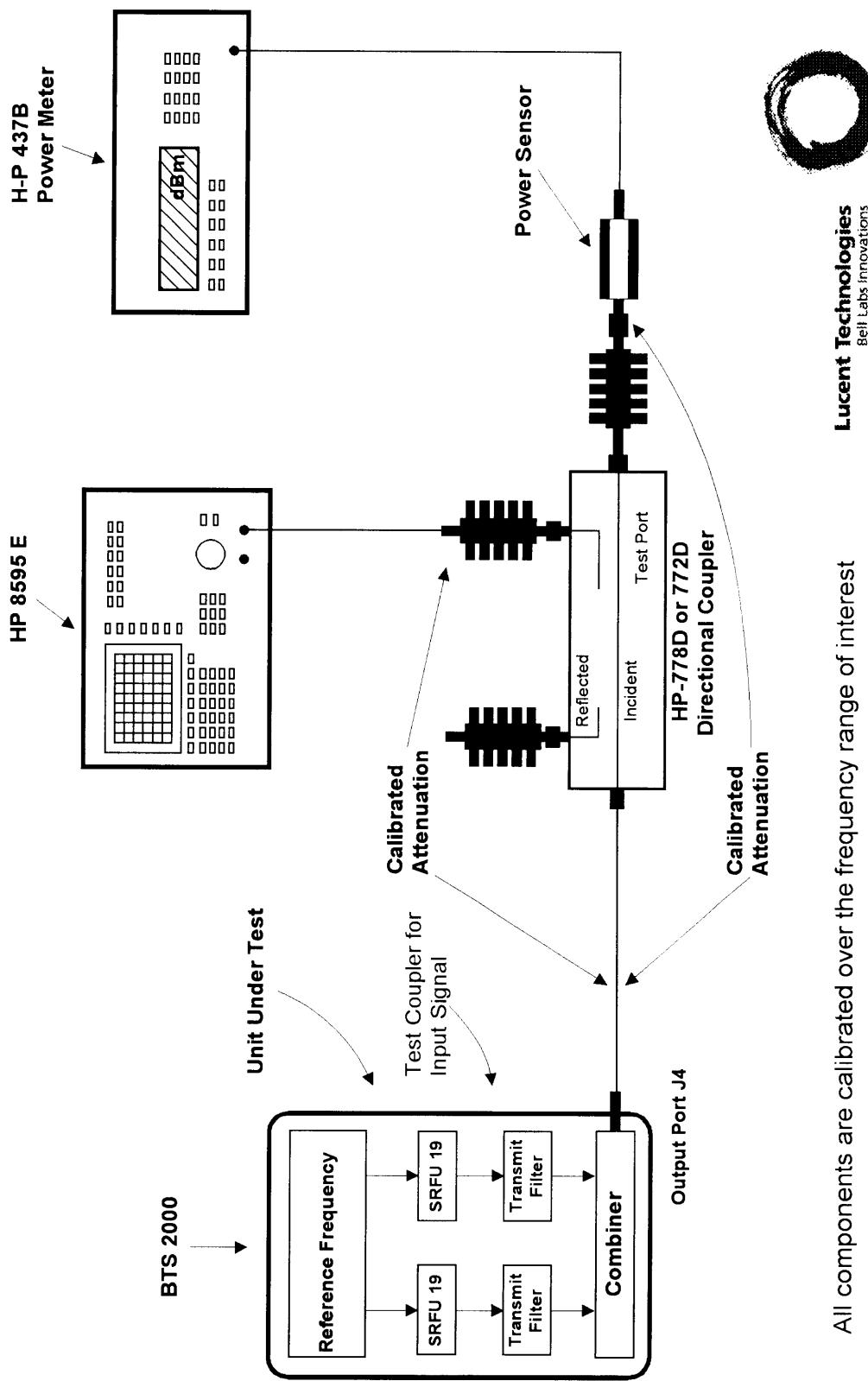
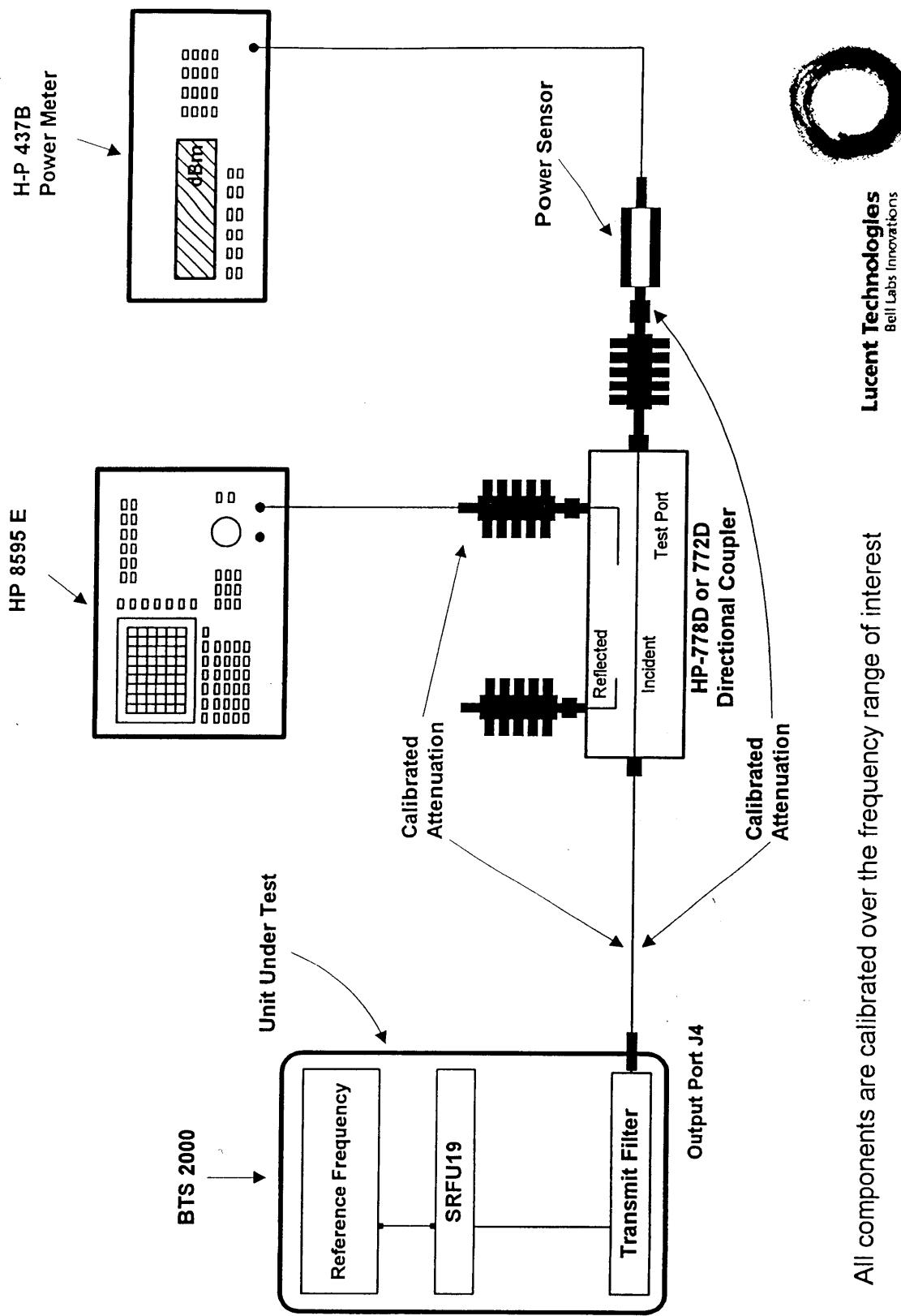


Figure 3B. TEST CONFIGURATION FOR OCCUPIED BANDWIDTH

MEASUREMENT: 3A

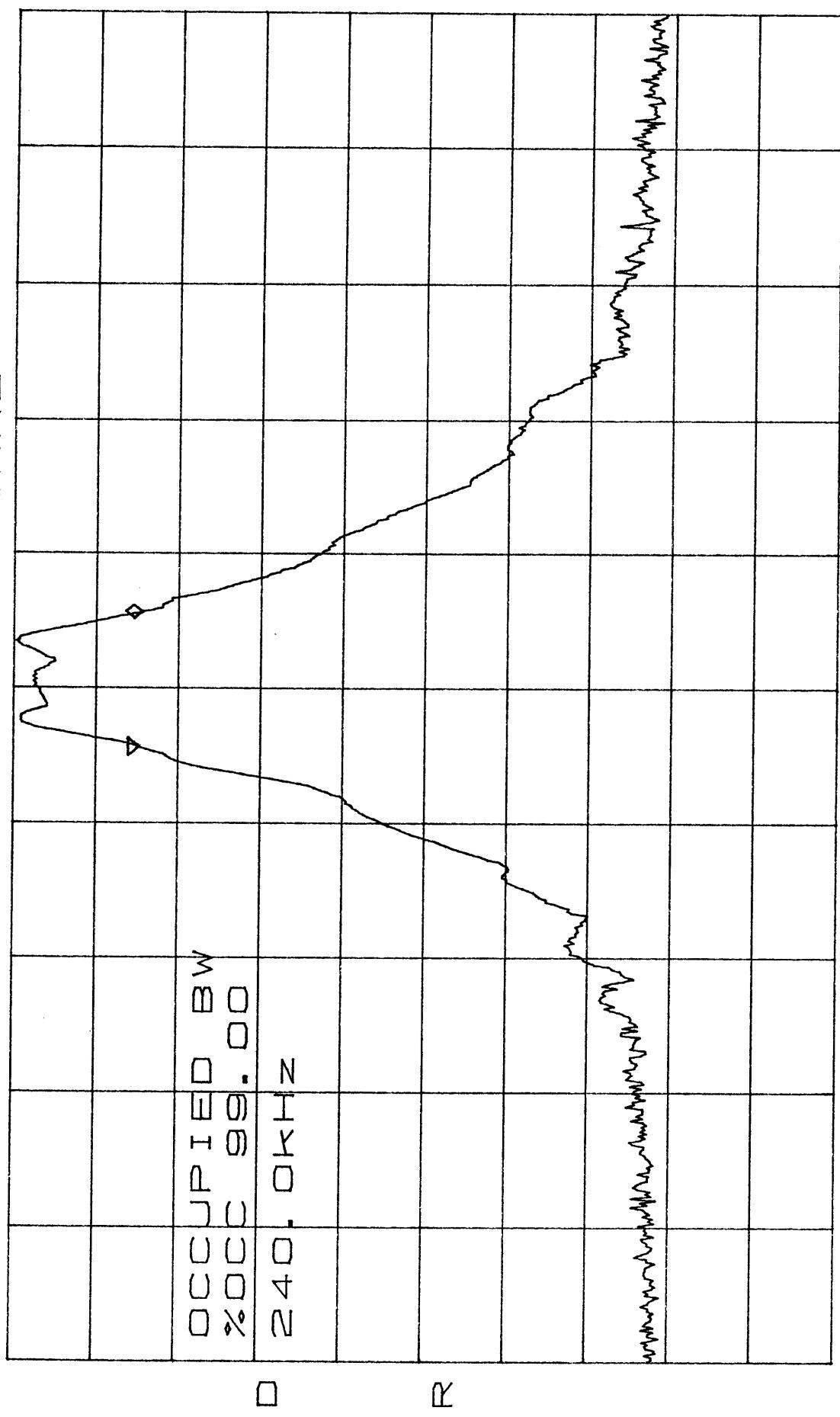
**MEASUREMENT
OF
OCCUPIED BANDWIDTH AT
99% OF POWER
BLOCK A
(1930 – 1945 MHz)**

**Left Edge: 1930.4 MHz (Channel 513)
Right Edge: 1944.6 MHz (Channel 584)**

ATTEN 10dB
RL 41.6dBm

FCC ID: AS5BTS2K-01

△MKR - 33dB
240kHz



CENTER 1.930400GHz
RBW 30kHz
BLOCK A CHANNEL: 513

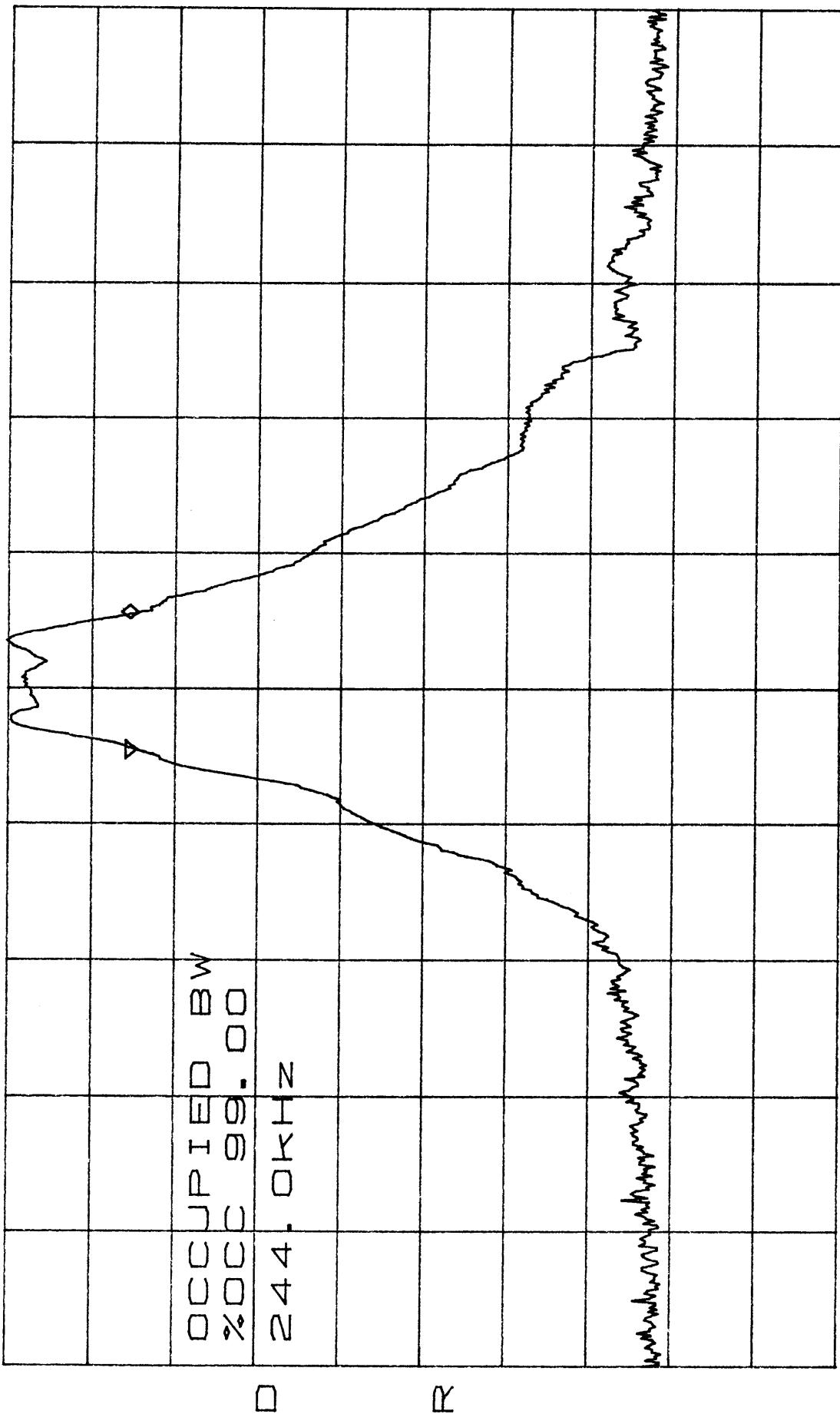
SPAN 2.400MHz
SWP 50.0ms

ATTEN 10dB

RL 41.6dBm

$\Delta MKR = -17\text{ dB}$

10dB /
 $\geq 44\text{ kHz}$



CENTER 1. 944600GHz
RBW 300kHz
BLOCK A CHANNEL: 584

SPAN 2. 400MHz
SWP 50.0ms

MEASUREMENT: 4A

MEASUREMENT

OF SPURIOUS EMISSIONS AT

99% OF POWER

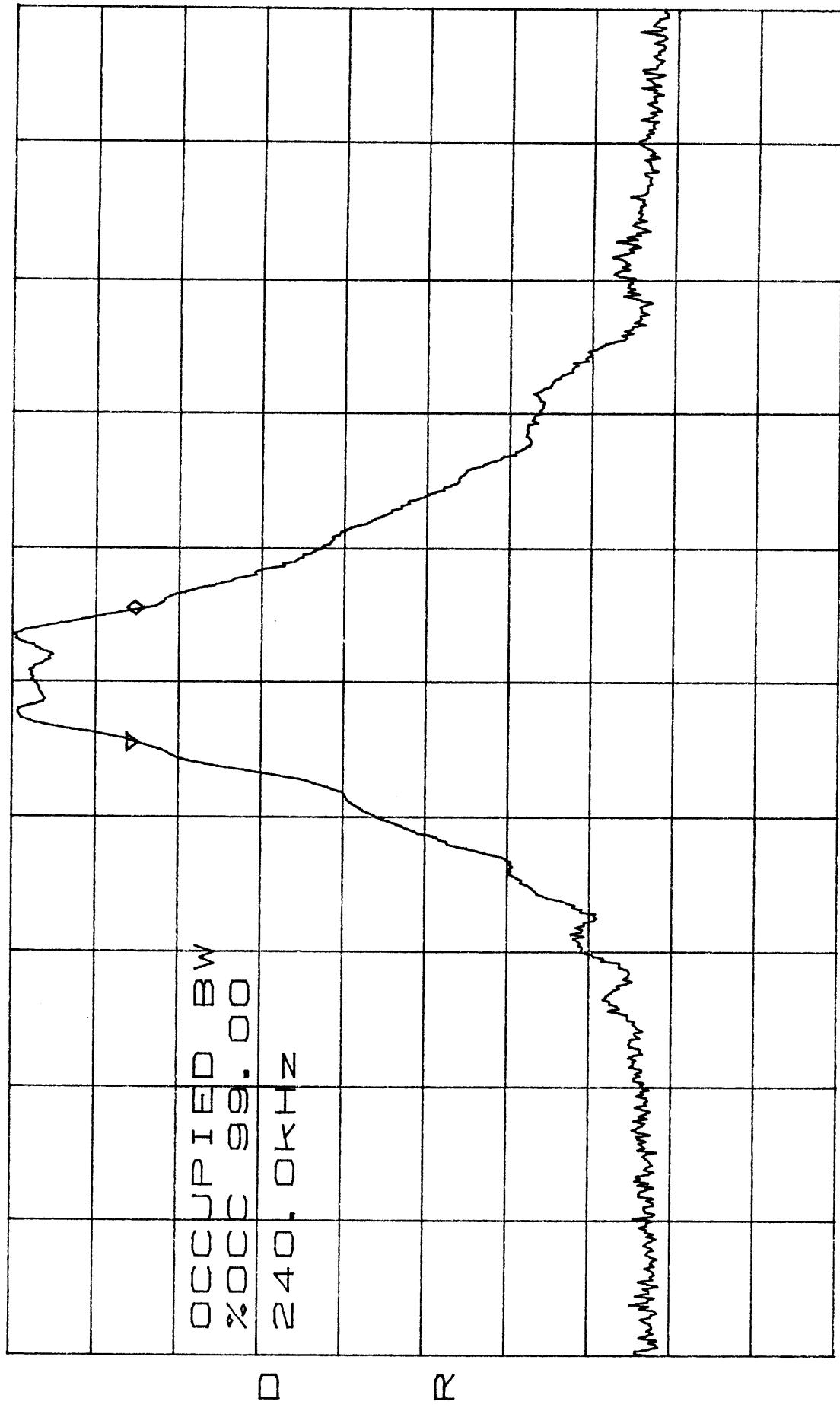
BLOCK B

(1950 – 1965 MHz)

Left Edge: **1950.4 MHz (Channel 613)**
Right Edge: **1964.6 MHz (Channel 684)**

ATTEN 10dB FCC ID: AS5BTS2K-01
RL 41.6dBm

$\Delta MKR = .67 \text{ dB}$
 240 kHz
 10 dB



CENTER 1.950400GHz
RBW 30kHz
BLOCK B CHANNEL: 613

SPAN 2.400MHz
SWP 50.0ms

ATTEN 10dB

RL 41.6dBm

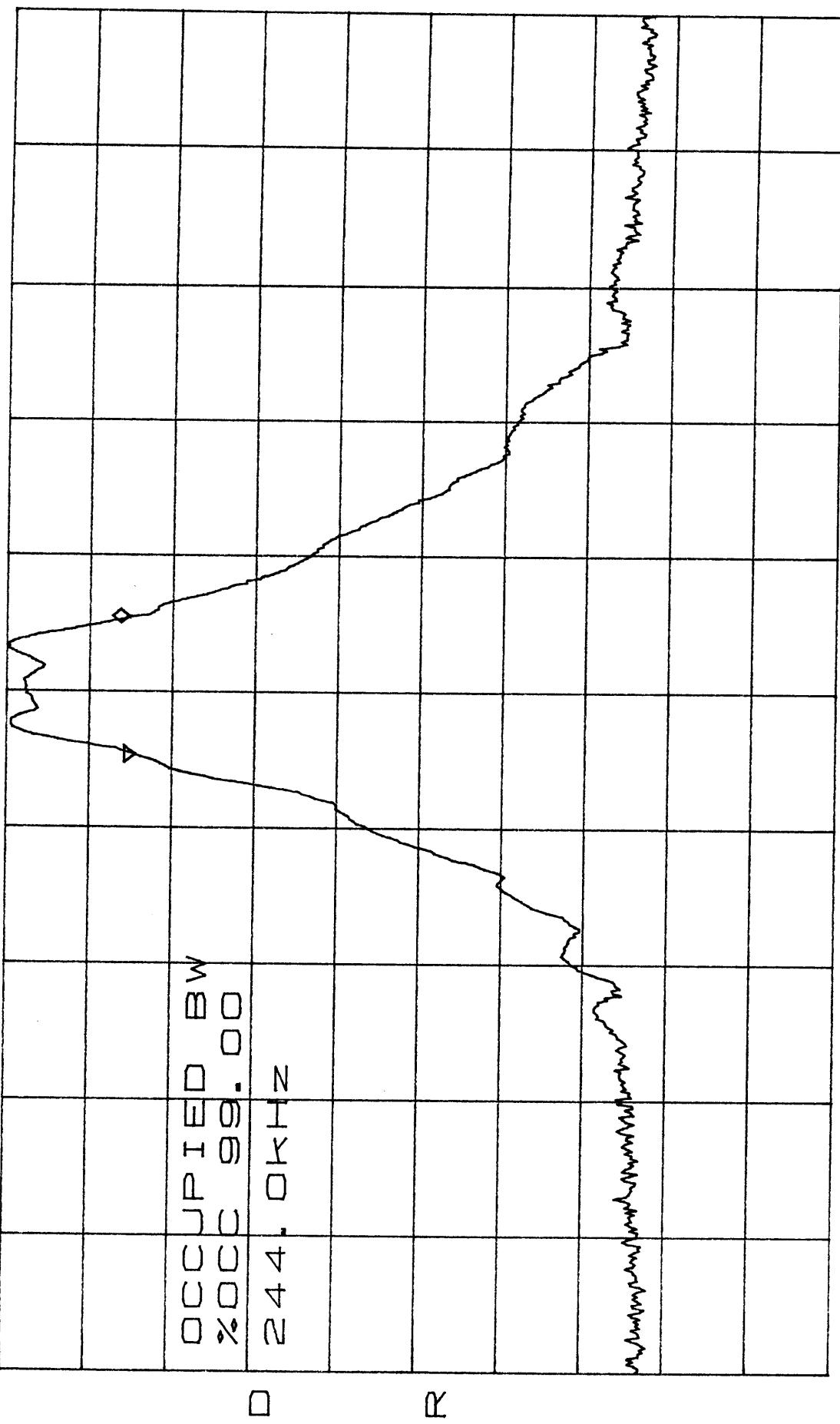
$\Delta MKR = 83\text{dB}$

244kHz

OCCUPIED BW
2000.00
244.0kHz

□

R



CENTER 1. 964600GHz
RBW 30kHz
BLOCK B CHANNEL 684

SPAN 2. 400MHz
SWP 50.0ms

MEASUREMENT: 3A

**MEASUREMENT
OF
OCCUPIED BANDWIDTH AT
99% OF POWER
BLOCK C**

(1975 – 1990 MHz)

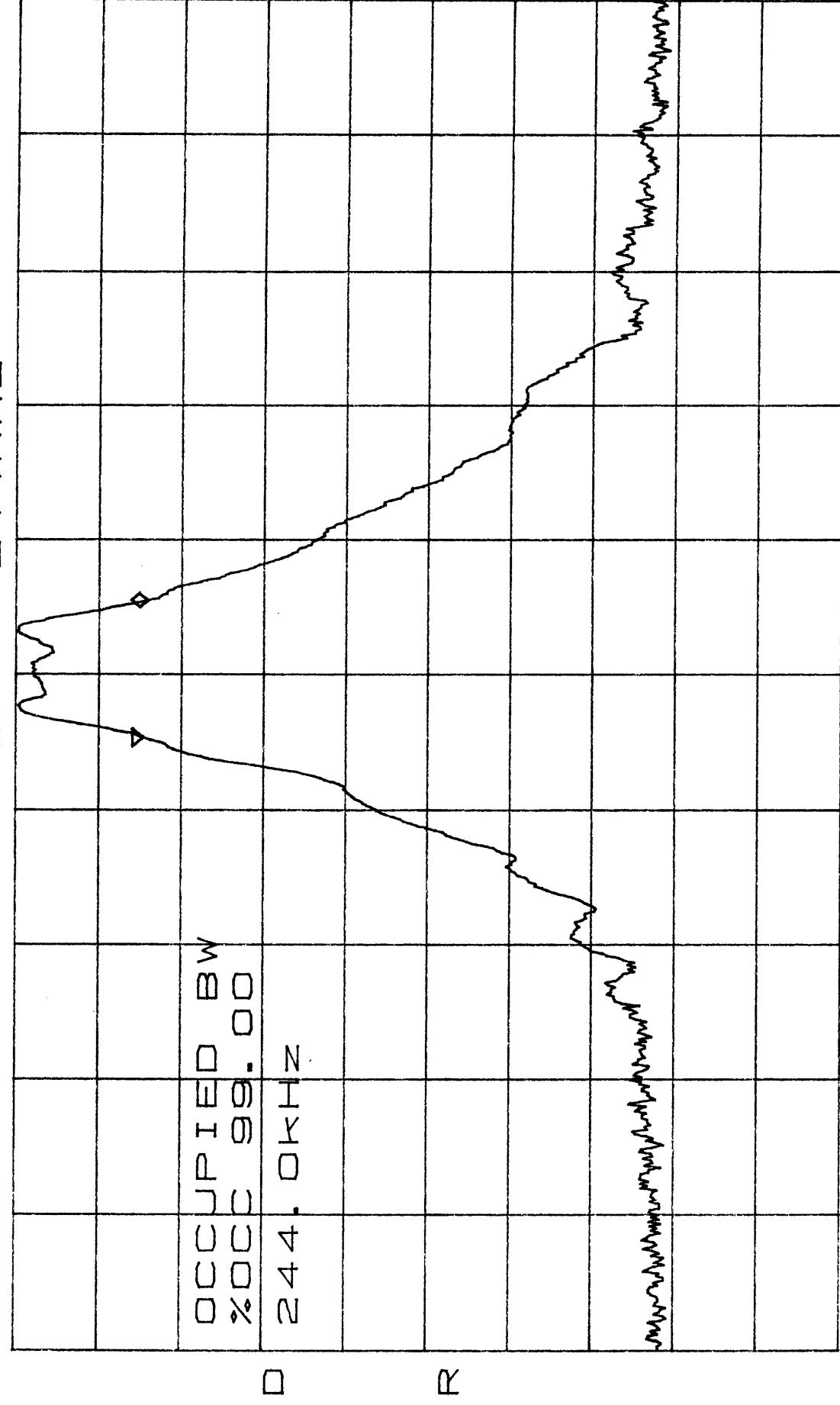
**Left Edge: 1975.4 MHz (Channel 738)
Right Edge: 1989.6 MHz (Channel 809)**

ATTEN 10dB

△MKR -. 50dB

RL 41.6dBm 10dB /

△MKR - . 50dB 244kHz

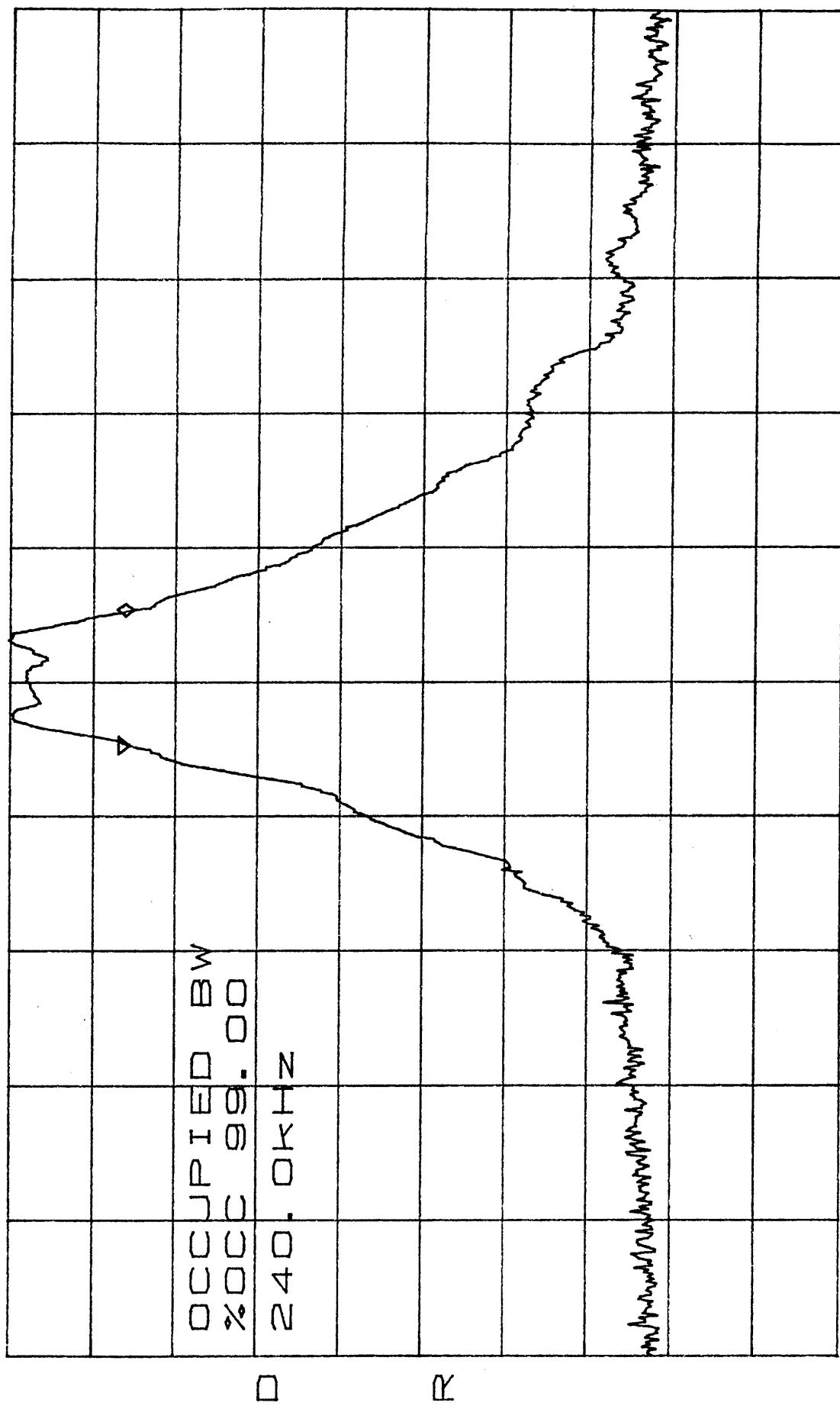


CENTER 1.975400GHz
RBW 30kHz CHANNEL: 738
SPAN 2.400MHz SWP 50.0ms

ATTEN 10dB FCC ID: AS5BTS2K-01
RL 41.6dBm 10dB/

$\Delta MKR = 50\text{dB}$

240kHz



MEASUREMENT: 3A

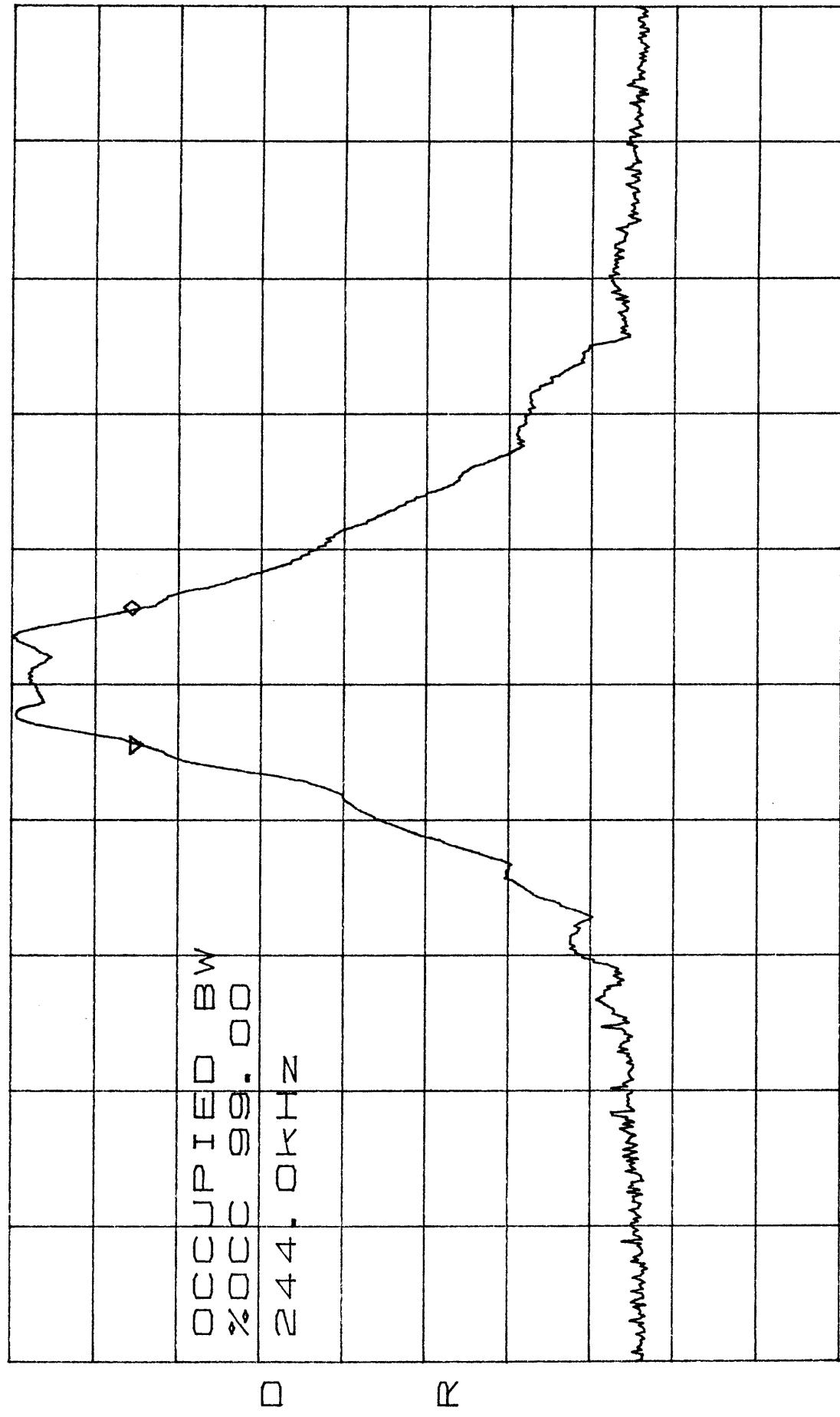
**MEASUREMENT
OF
OCCUPIED BANDWIDTH AT
99% OF POWER
BLOCK D
(1945 – 1950 MHz)**

**Left Edge: 1945.4 MHz (Channel 588)
Right Edge: 1949.6 MHz (Channel 609)**

ATTEN 10dB
RL 41.6dB

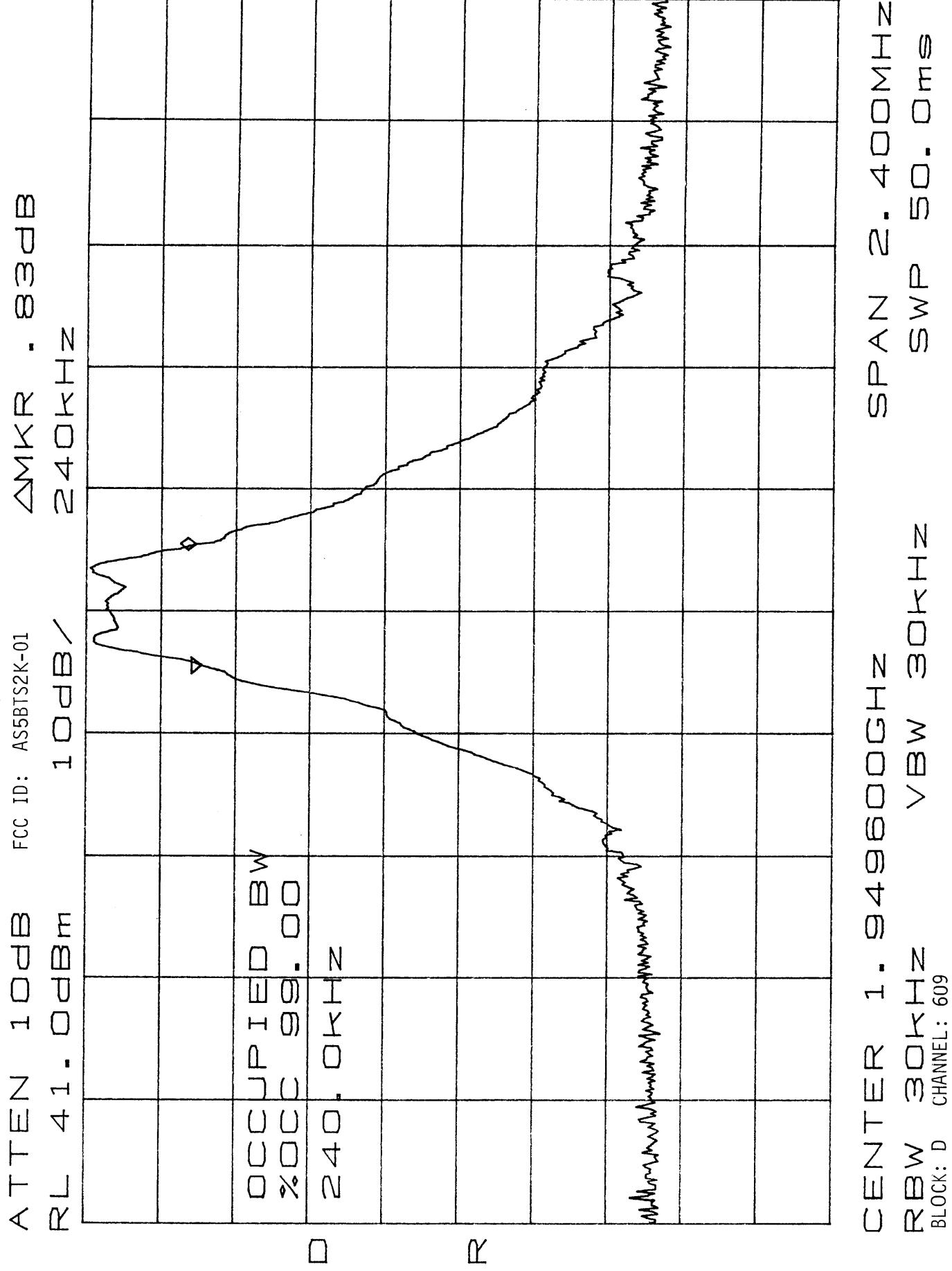
FCC ID: AS5BIS2K-01

$\Delta MKR = 17 \text{ dB}$
 244 kHz



CENTER 1.945400GHz
RBW 30kHz
BLOCK: d
CHANNEL: 588

SPAN 2.400MHz
SWP 50.0ms



MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH AT

99% OF POWER

BLOCK E

(1965 – 1970 MHz)

**Left Edge: 1965.4 MHz (Channel 688)
Right Edge: 1969.6 MHz (Channel 709)**

ATTEN 10dB

RL 41.6dBm

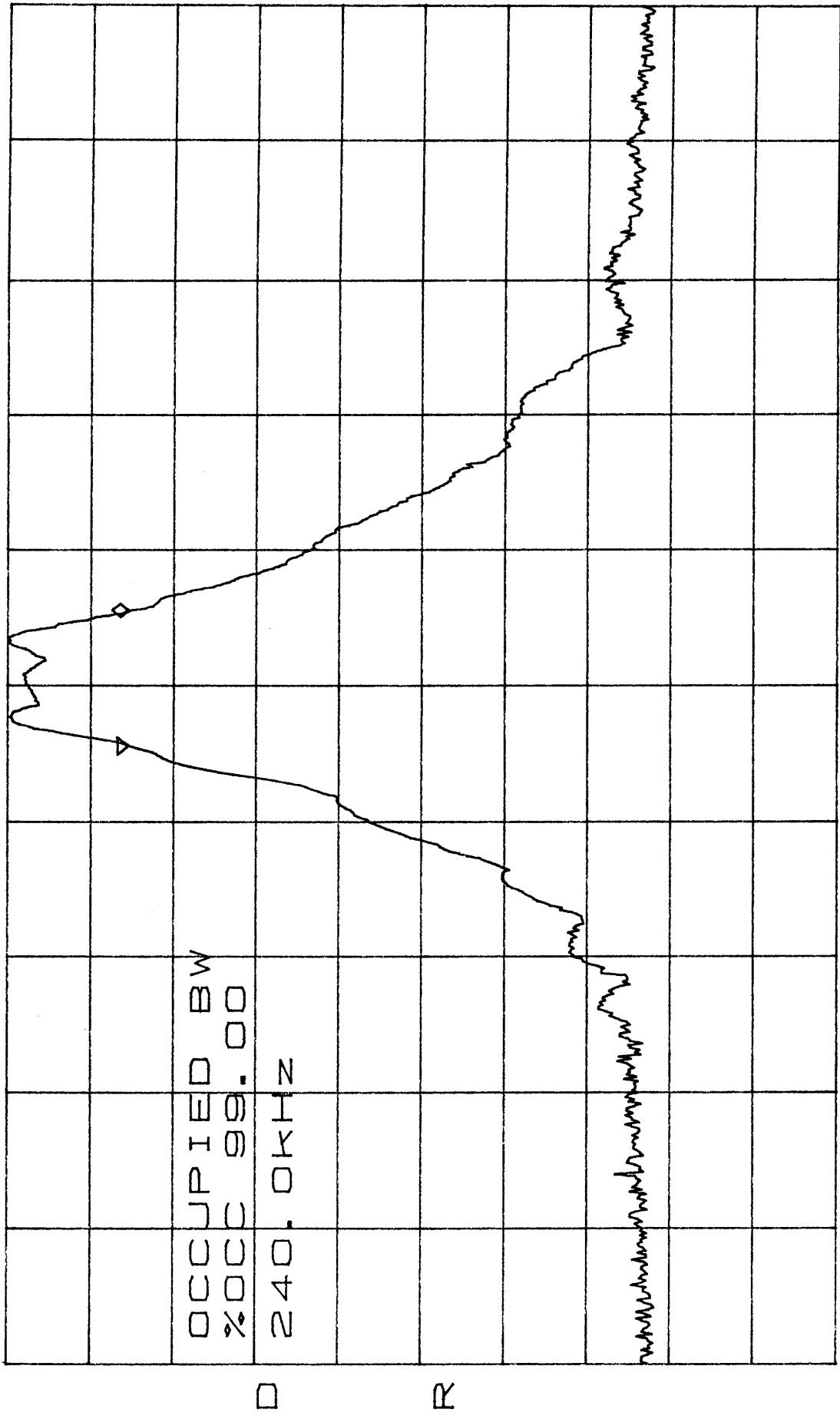
ΔMKR

$\geq 40\text{kHz}$

OCUPIED BW
2000.00
240.0kHz

D

R



CENTER 1.965400GHz

RBW 30kHz CHANNEL: E
BLOCK: E

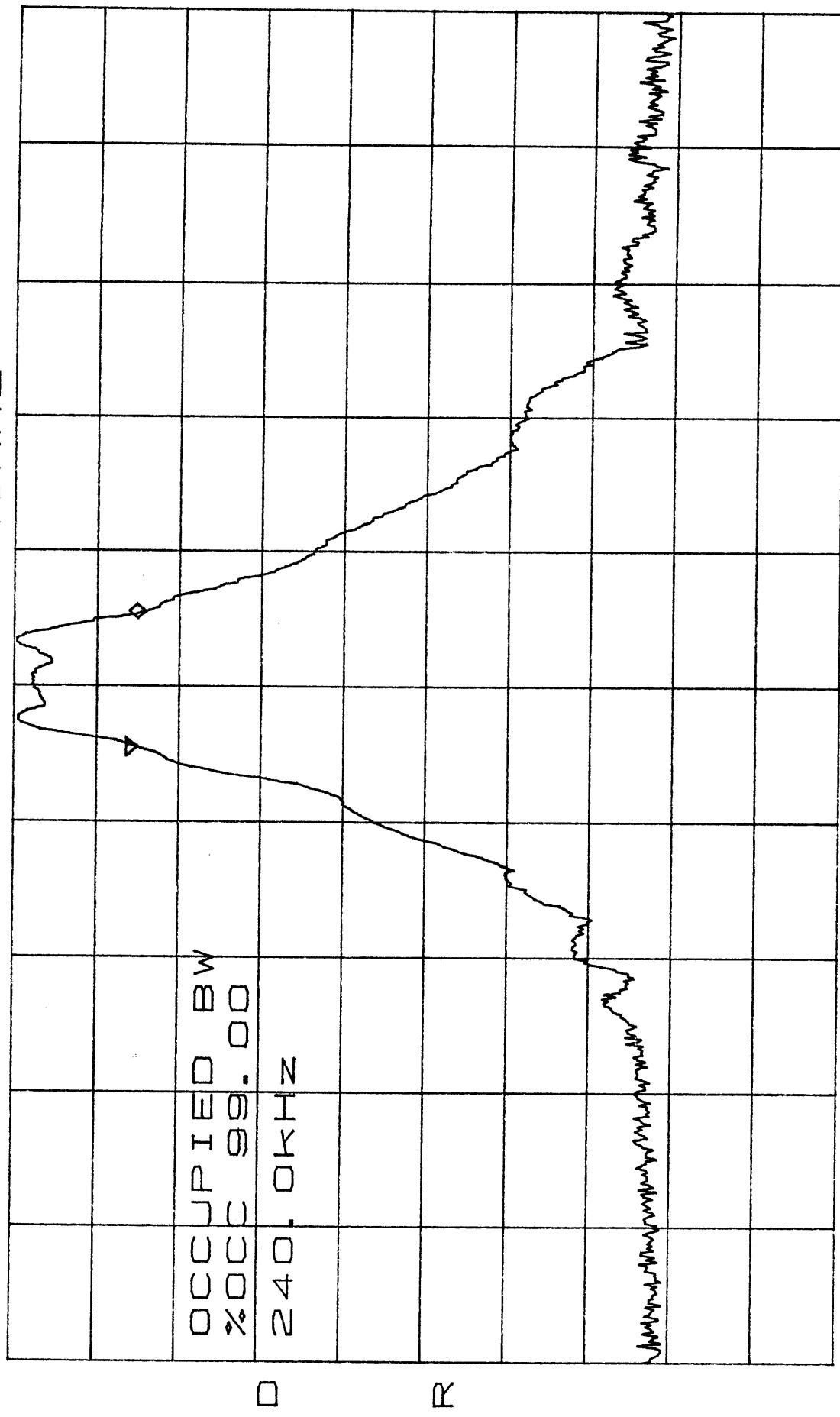
SPAN 2.400MHz

VBW 30kHz SWP 50.0ms

ATTEN 10dB FCC ID: ASBTS2K-01
RL 41.6dBm

$\Delta MKR = 1.00 \text{ dB}$

10dB/
240kHz



CENTER 1.969600GHz
RBW 30kHz VBW 30kHz
BLOCK: E CHANNEL: 709

SPAN 2.400MHz
SWP 50.0ms

MEASUREMENT: 3A

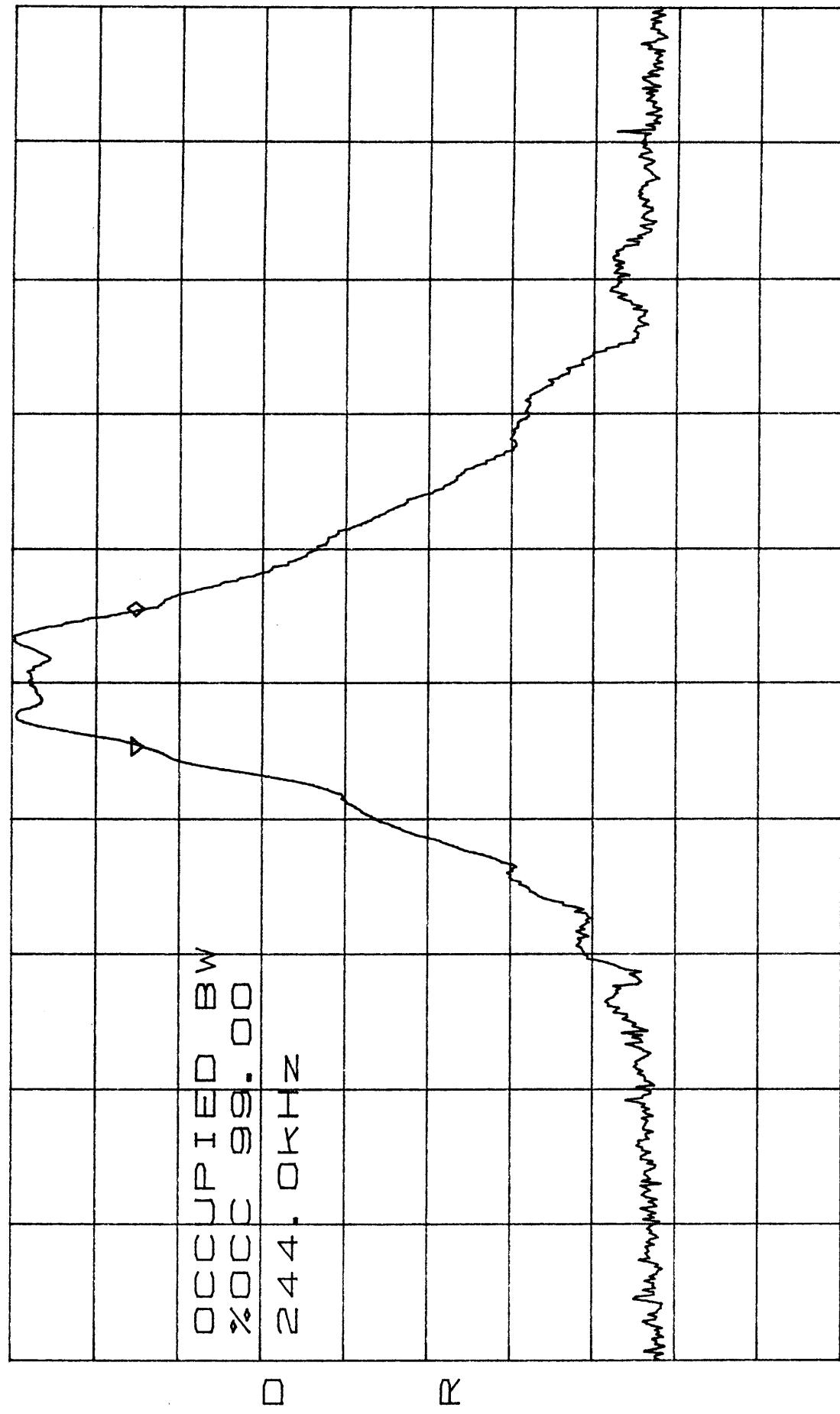
**MEASUREMENT
OF
OCCUPIED BANDWIDTH AT
99% OF POWER
BLOCK F
(1970 – 1975 MHz)**

**Left Edge: 1970.4 MHz (Channel 713)
Right Edge: 1974.6 MHz (Channel 734)**

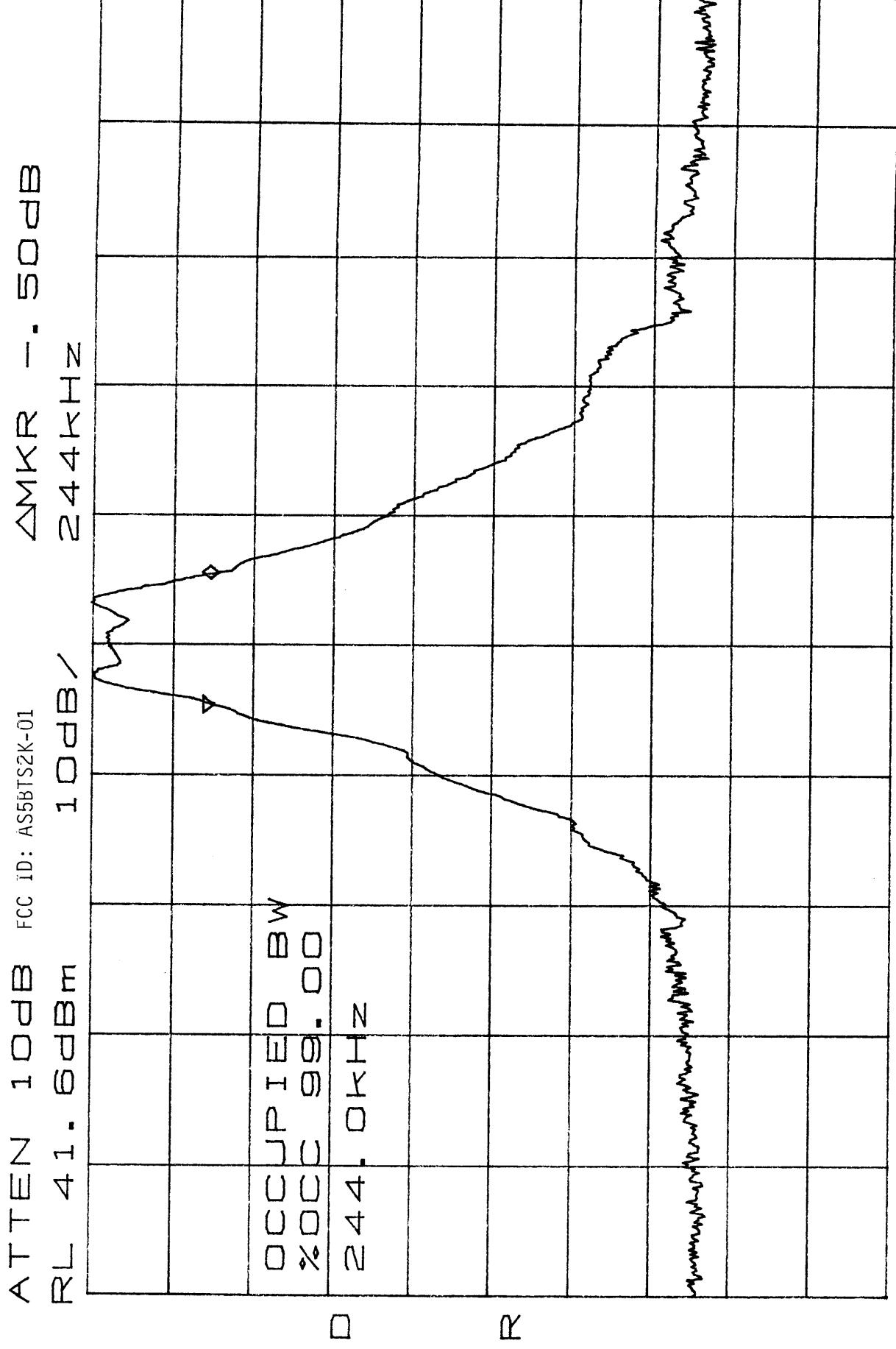
ATTEN 10dB FCC ID:
RL 41-6dBm

FCC ID: AS5BT S2K-01

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CENTER 1. 970400GHz SPAN 2. 400MHz
RBW 30kHz VBW 30kHz SWP 50.0ms
BLOCK: F CHANNEL: 713



CENTER 1.974600GHz SPAN 2.400MHz

RBW 30kHz VBW 30kHz SWP 50.0ms

BLOCK: F CHANNEL: 734

MEASUREMENT: 3B

**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER**

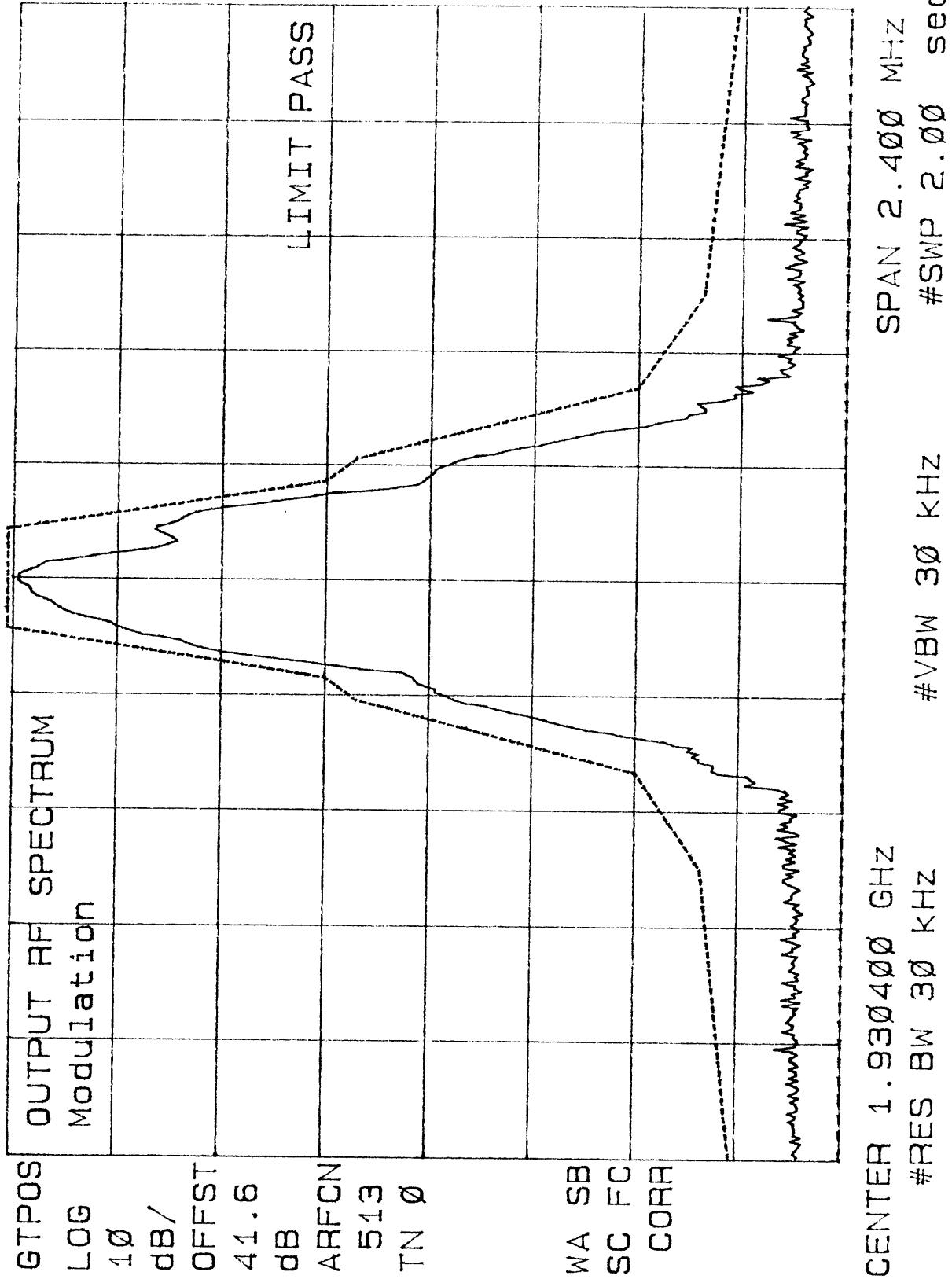
BLOCK A

(1930 – 1945 MHz)

Left Edge: 1930.4 MHz (Channel 513)
Center: 1937.6 MHz (Channel 549)
Right Edge: 1944.6 MHz (Channel 584)

18:01:31 NOV 04, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.4 dBm #AT 10 dB



19:36:19 NOV 04, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K- 01
 REF 39.0 dBm #AT 10 dB

GTSMP OUTPUT RF SPECTRUM
 Modulation

LOG	Offset	Freq	- Offset	dBm	+ Offset	dBm
OFFST				dB		dBm
41.6	0	KHz	0.	0.	35.9	35.9
	100	KHz	-10.	2	25.7	-14.4
	200	KHz	-38.	6	-2.	-40.
ARFCN	250	KHz	-42.	4	-6.	-44.
513	400	KHz	-71.	7	-35.	6
TN 0	600	KHz	-80.	6	-44.	-82.
BURST	800	KHz	-82.	0	-46.	8
1	1000	KHz	-84.	2	-48.	-84.
	1200	KHz	-84.	6	-48.	-84.
	1400	KHz	-84.	3	-48.	-84.
SA SB	1600	KHz	-84.	1	-48.	-85.
SC EC	1800	KHz	-79.	1	-43.	6
CORR						-79.

CENTER 1. 9304000 GHz
 #RES BW 30 kHz #VBW 30 kHz
 SPAN 0 Hz #SWP 320 usec

19:56:54 NOV 04, 1999

✓ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASSBTS2K-01
REF 39.5 dBm #AT 10 dB

GT SMP OUTPUT RF SPECTRUM

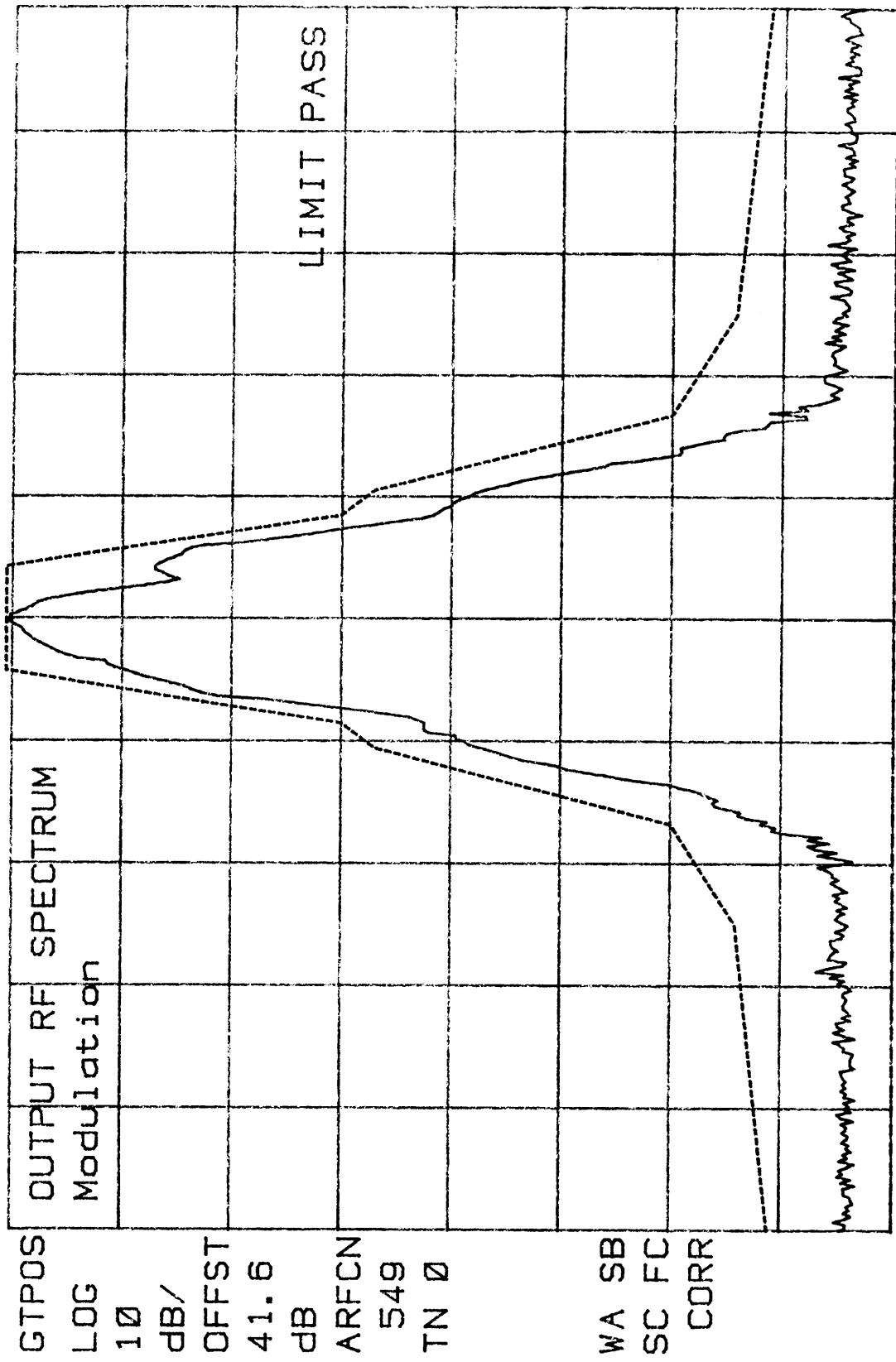
LOG Modulation

LOG dB/ OFFST	- Offset			+ Offset		
	Offset	Freq	dB	dBm	dB	dBm
41.6	0 kHz	0. 0	36.	3	0. 0	36. 3
	100 kHz	-10. 1	26.	1	-14. 4	21. 9
dB	200 kHz	-39. 1	-2.	9	-39. 7	-3. 4
ARFCN	250 kHz	-42. 7	-6.	4	-44. 1	-7. 8
549	400 kHz	-70. 3	-34.	0	-76. 2	-39. 9
TN 0	600 kHz	-81. 2	-44.	9	-80. 6	-44. 3
BURST	800 kHz	-83. 5	-47.	2	-83. 7	-47. 5
1	1000 kHz	-83. 9	-47.	7	-83. 1	-46. 8
	1200 kHz	-82. 6	-46.	3	-84. 5	-48. 3
SA SB	1400 kHz	-84. 1	-47.	8	-86. 5	-50. 2
SC EC	1600 kHz	-82. 2	-46.	0	-82. 5	-46. 3
CORR	1800 kHz	-77. 4	-41.	1	-78. 6	-42. 3

CENTER 1. 9376000 GHz
#RES BW 30 kHz #VBW 30 kHz SPAN 0 Hz
 #SWP 320 usec

19:52:25 NOV 04, 1999
Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01

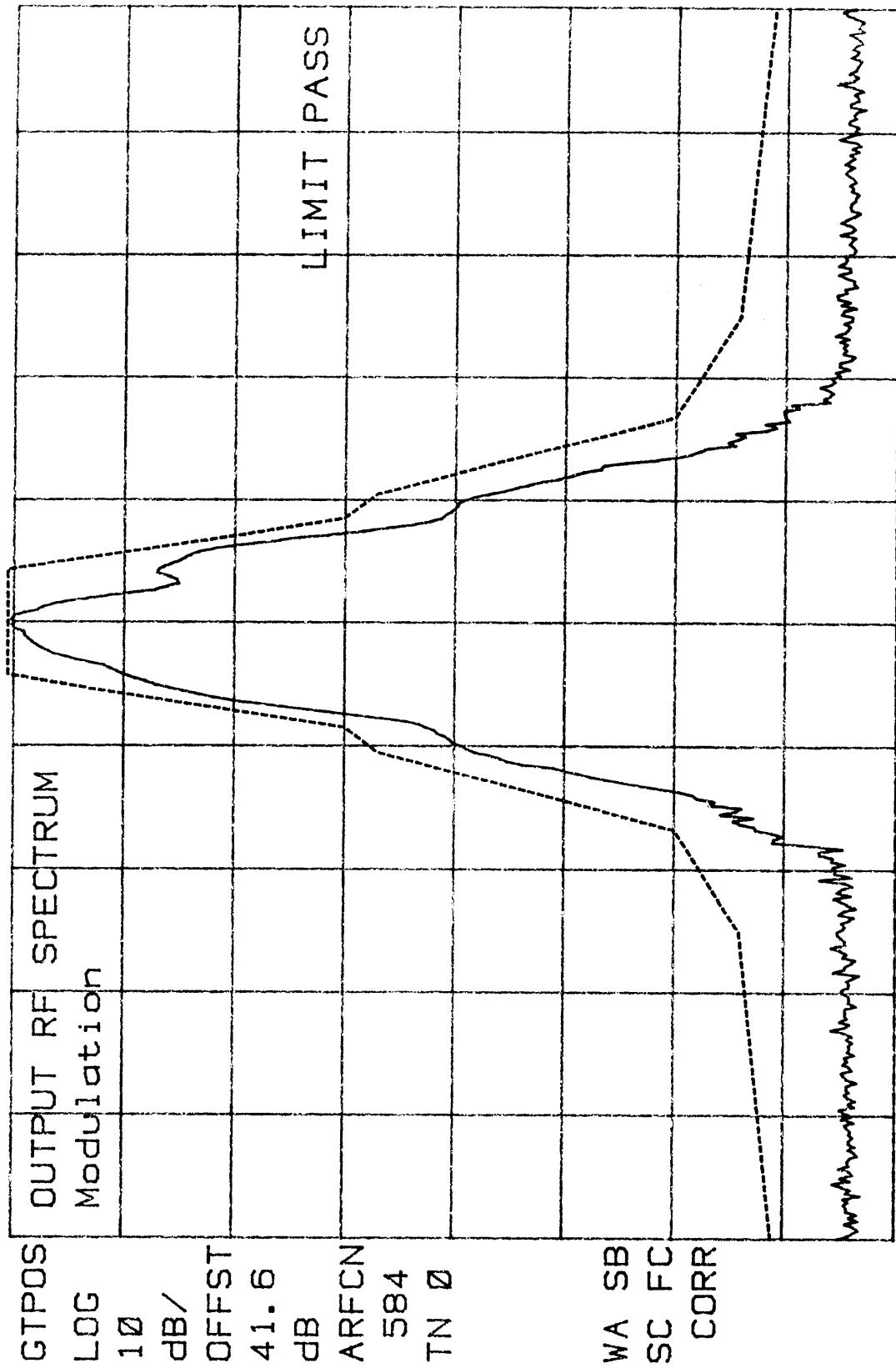
REF 38.9 dBm #AT 10 dB



CENTER 1. 937600 GHz
#RES BW 30 kHz #VBW 30 kHz
SPAN 2. 400 MHz #SWP 2. 00 sec

19:41:48 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 38.9 dBm #AT 10 dB



19:46:23 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
 REF 39.3 dBm #AT 10 dB

GTSMR OUTPUT RF SPECTRUM

LOG Modulation

OFFSET	Offset	Freq	- Offset		+ Offset	
			dB	dBm	dB	dBm
41.6 dB	0 kHz	0. 0	36. 2		0. 0	36. 2
	100 kHz	-10. 2	26. 0		-14. 4	21. 8
ARFCN 584	200 kHz	-39. 1	-2. 9		-39. 5	-3. 3
TN 0	250 kHz	-42. 4	-6. 3		-43. 9	-7. 7
BURST 1	400 kHz	-71. 0	-34. 8		-72. 9	-36. 8
SA SB	600 kHz	-82. 7	-46. 5		-80. 6	-44. 4
SC EC	800 kHz	-81. 6	-45. 4		-83. 5	-47. 3
CORR	1000 kHz	-82. 5	-46. 3		-83. 9	-47. 7
	1200 kHz	-83. 5	-47. 3		-85. 0	-48. 8
	1400 kHz	-84. 9	-48. 7		-85. 0	-48. 8
	1600 kHz	-84. 2	-48. 0		-84. 2	-48. 0
	1800 kHz	-79. 6	-43. 4		-78. 2	-42. 0

CENTER 1.9446000 GHz
 #RES BW 30 kHz #VBW 30 kHz
 SPAN 0 Hz #SWP 320 usec

MEASUREMENT: 3B

**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER
BLOCK B**

(1950 – 1965 MHz)

**Left Edge: 1950.4 MHz (Channel 613)
Center: 1957.6 MHz (Channel 649)
Right Edge: 1964.6 MHz (Channel 684)**

20: 44: 04 NOV 04, 1999

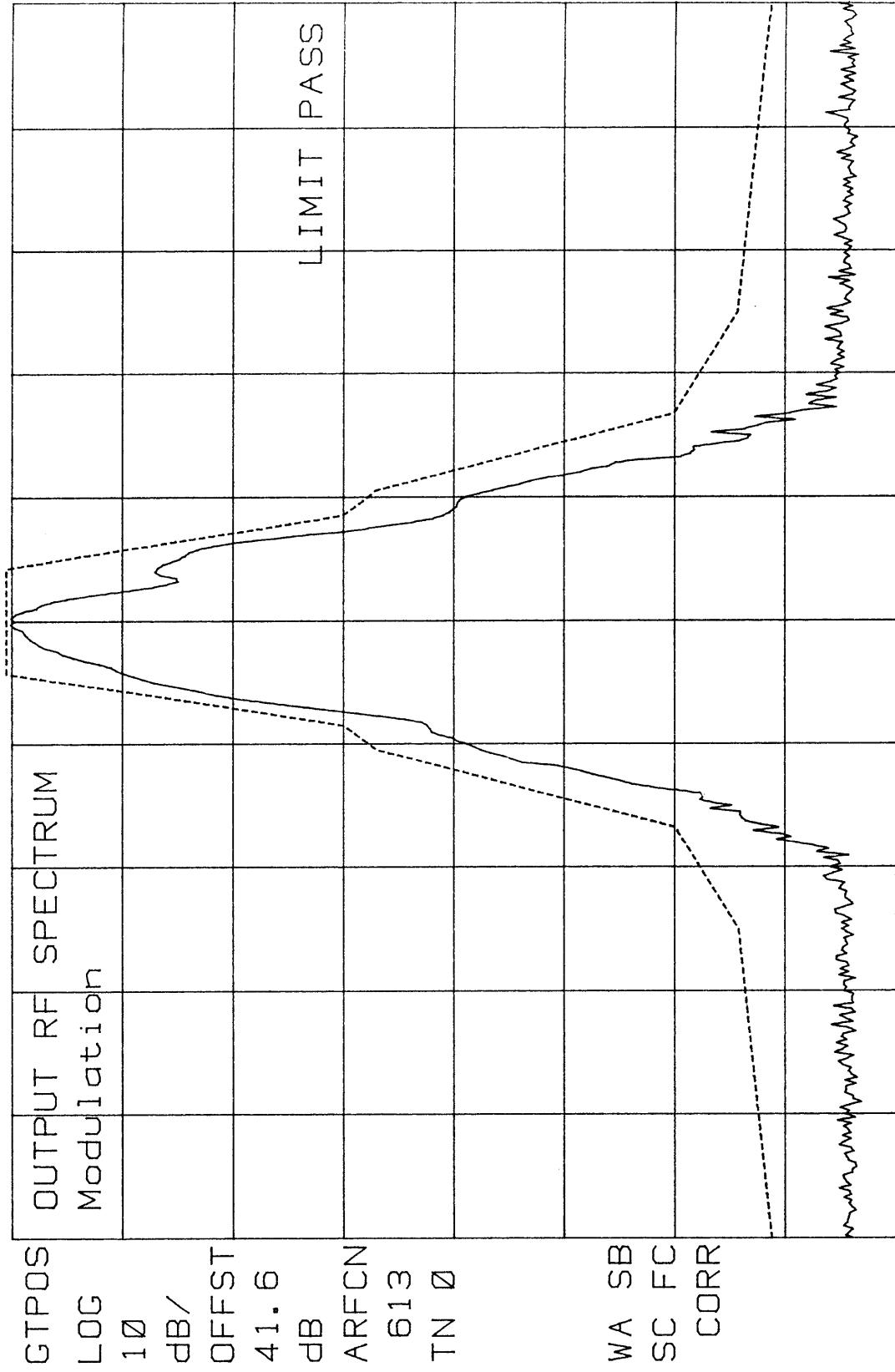
/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASS5BTS2K-01
REF 39.0 dBm #AT 10 dB

GTSMP OUTPUT RF SPECTRUM			
Modulation	- Offset Freq	+ Offset	
10	dB /	dB	dB
OFFSET	0 kHz	0.0	35.9
41.6 dB	100 kHz	-10.3	25.7
ARFCN	200 kHz	-38.6	-2.6
613	250 kHz	-42.3	-6.3
TN 0	400 kHz	-71.5	-35.6
BURST	600 kHz	-83.9	-47.9
1	800 kHz	-85.0	-49.1
SA SB	1000 kHz	-85.6	-49.6
SC EC	1200 kHz	-83.6	-47.7
CORR	1400 kHz	-85.5	-49.6
	1600 kHz	-85.3	-49.3
	1800 kHz	-78.1	-42.1

CENTER 1. 95040000 GHz
#RES BW 30 kHz #VBW 30 kHz SPAN 0 Hz
#SWP 320 usec

20:39:12 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 38.8 dBm #AT 10 dB



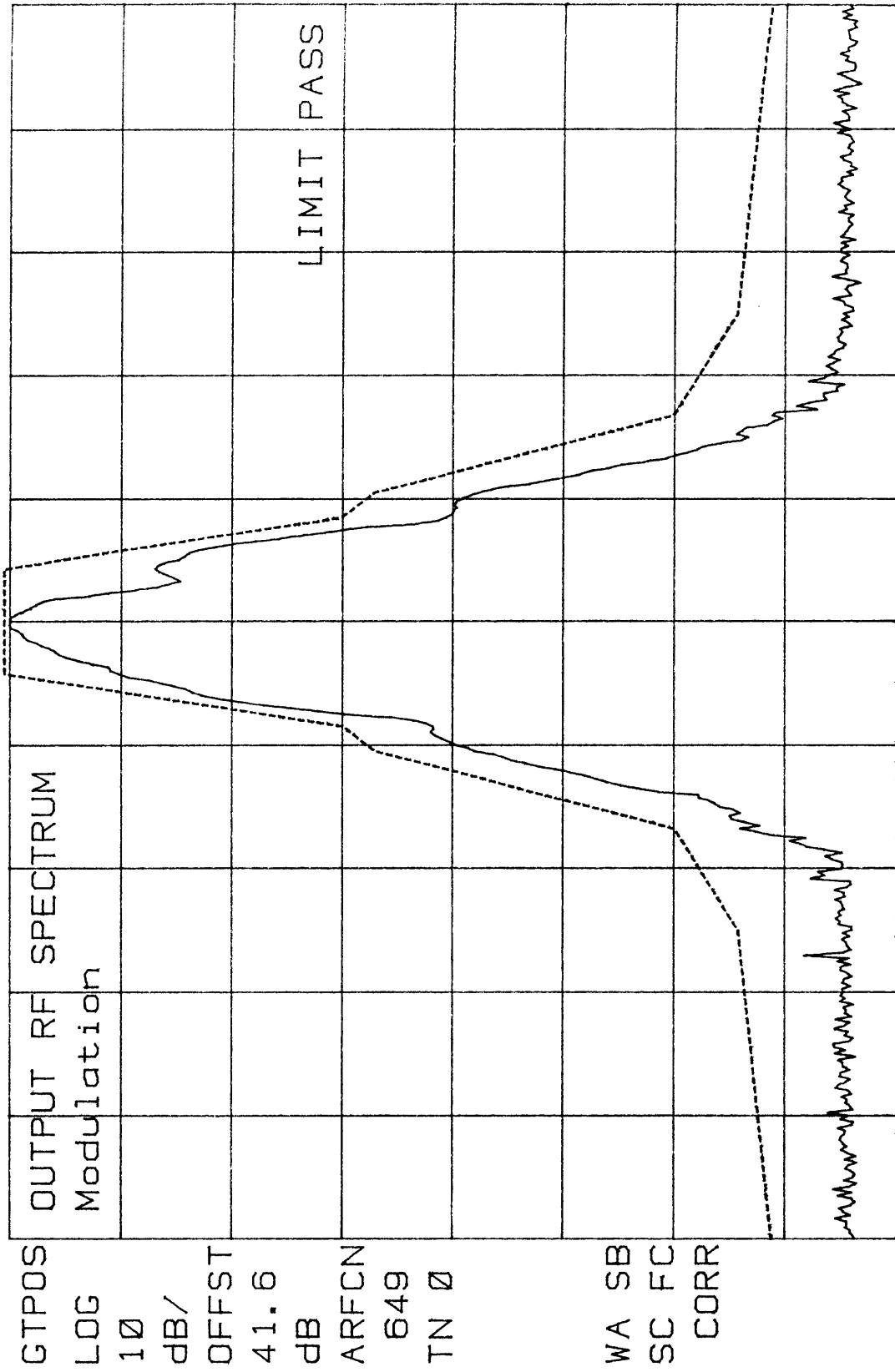
CENTER 1.950400 GHz
#RES BW 30 kHz

SPAN 2.400 MHz
#SWP 2.00 sec
#VBW 30 kHz

21: 01: 13 NOV 04, 1999

FCC ID: AS5BTS2K-01

REF 38.8 dBm #AT 10 dB



WA SB
SC FC
CORR

CENTER 1.9576000 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 2.400 MHz
#SWP 2.00 sec

21:05:21 NOV 04, 1999


FCC ID: AS5BTS2K-01

REF 39.2 dBm #AT 10 dB

GTSMP OUTPUT RF SPECTRUM
 LOG Modulation

OFFSET dB/ LOG	- Offset			+ Offset		
	Offset	Freq	dBm	dBm	dB	dBm
41.6	0 kHz	0. 0	36. 0	0. 0	36. 0	36. 0
dB	100 kHz	-10. 2	25. 8	-14. 5	21. 5	
ARFCN	200 kHz	-38. 4	-2. 4	-39. 8	-3. 8	
649	250 kHz	-42. 9	-6. 9	-44. 6	-8. 6	
TN 0	400 kHz	-70. 0	-34. 0	-74. 5	-38. 5	
BURST	600 kHz	-85. 3	-49. 3	-79. 9	-43. 9	
1	800 kHz	-81. 4	-45. 4	-84. 3	-48. 3	
SA SB	1000 kHz	-81. 6	-45. 6	-83. 3	-47. 3	
SC EC	1200 kHz	-81. 2	-45. 2	-83. 3	-47. 3	
CORR	1400 kHz	-82. 0	-46. 0	-83. 6	-47. 6	
	1600 kHz	-82. 8	-46. 8	-81. 4	-45. 4	
	1800 kHz	-78. 7	-42. 7	-79. 2	-43. 2	

CENTER 1.9576000 GHz
 #RES BW 30 kHz #VBW 30 kHz #SWP 320 μsec

SPAN 0 Hz
 #SEC 320 μsec

20:55:54 NOV 04, 1999
#P

FCC ID: AS5BTS2K-01

REF 39.5 dBm #AT 10 dB

GT SMP OUTPUT RF SPECTRUM

LOG Modulation

10 dB/¹⁰

Offset Freq dB

- Offset dBm

+ Offset dBm

0 kHz 0. 0 36. 3 0. 0 36. 3

100 kHz -10. 3 26. 0 -14. 4 21. 9

200 kHz -38. 5 -2. 2 -39. 5 -3. 2

250 kHz -42. 4 -6. 1 -44. 0 -7. 7

684 400 kHz -71. 1 -34. 9 -75. 1 -38. 8

TN 0 600 kHz -80. 6 -44. 3 -81. 8 -45. 5

BURST 800 kHz -85. 3 -49. 0 -84. 9 -48. 6

1000 kHz -84. 1 -47. 8 -81. 0 -44. 7

1 1200 kHz -85. 8 -49. 5 -84. 5 -48. 2

SA SB 1400 kHz -84. 4 -48. 1 -85. 0 -48. 7

SC EC 1600 kHz -84. 4 -48. 1 -84. 7 -48. 4

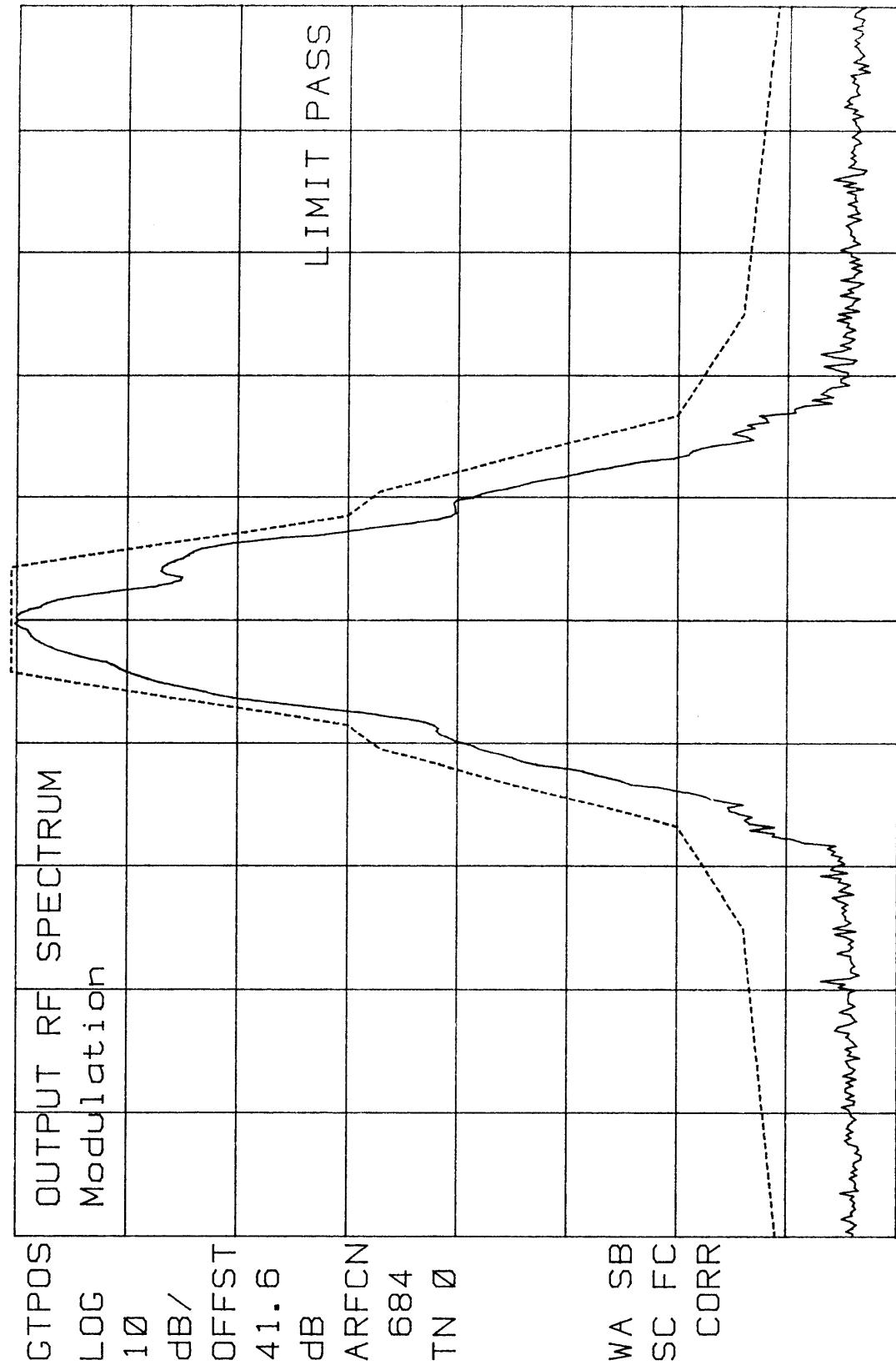
CORR 1800 kHz -81. 0 -44. 7 -78. 7 -42. 4

CENTER 1. 9646000 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 0 Hz
#SWP 320 usec

20:49:23 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASS5BTS2K-01
REF 39.0 dBm #AT 10 dB



CENTER 1.964600 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 2.400 MHz
#SWP 2.00 sec

MEASUREMENT: 3B

**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER
BLOCK C
(1975 – 1990 MHz)**

**Left Edge: 1975.4 MHz (Channel 738)
Center: 1984.6 MHz (Channel 784)
Right Edge: 1989.6 MHz (Channel 809)**

15:20:29 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: A55BTS2K-01
REF 39.4 dBm #AT 10 dB

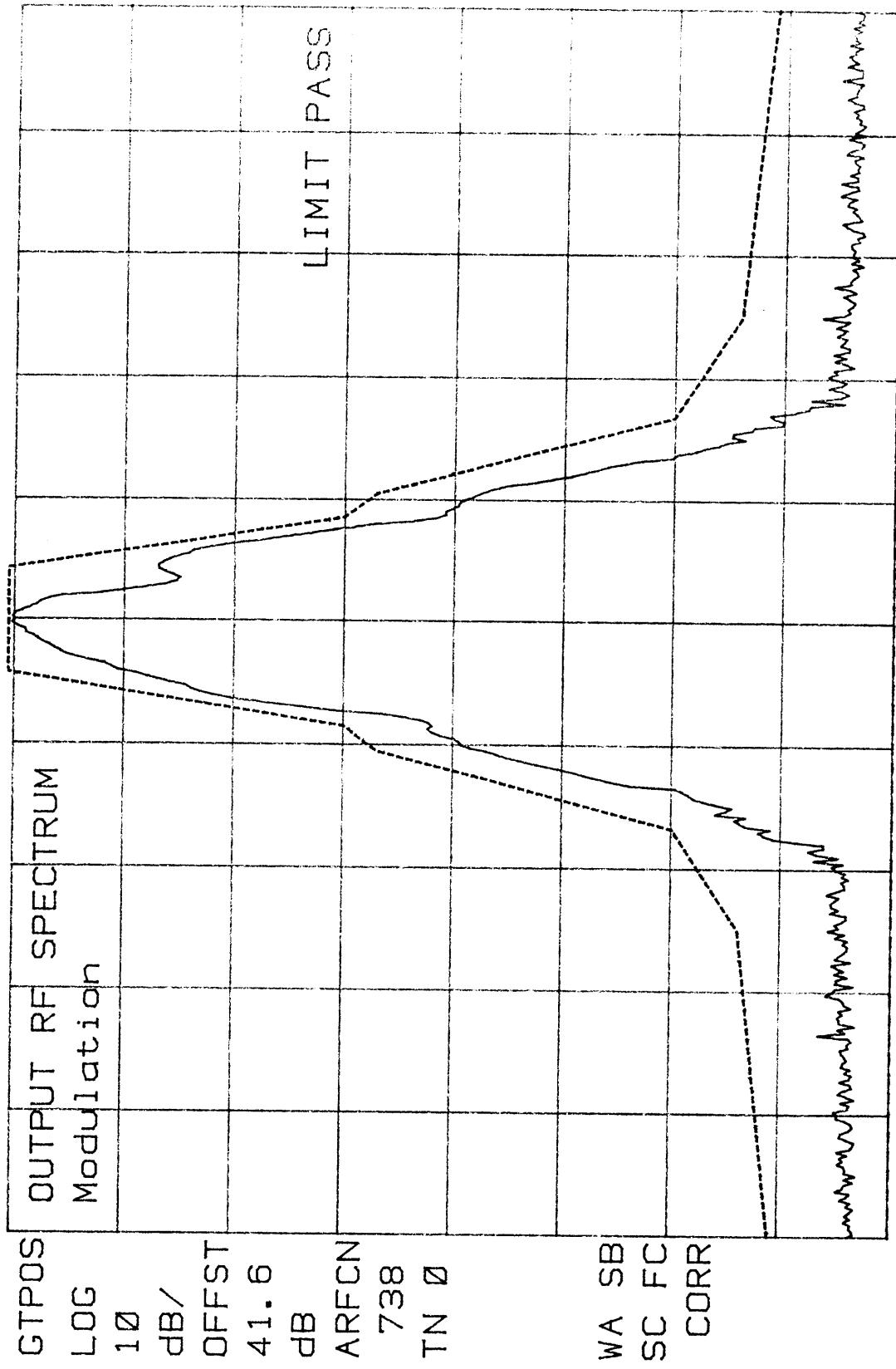
GT SMP OUTPUT RF SPECTRUM

LOG OFFSET	Modulation			- Offset			+ Offset		
	dB /	Offset	Freq	dB	dBm	dBm	dB	dBm	dBm
41.6	0	KHz	0.0	36.5	0.	0	36.5	0.	0
dB	100	KHz	-10.5	26.0	-14.6	-14.6	21.9	21.9	21.9
ARFCN	200	KHz	-38.7	-2.2	-39.9	-39.9	-3.4	-3.4	-3.4
738	250	KHz	-43.9	-7.4	-43.9	-43.9	-7.5	-7.5	-7.5
TN 0	400	KHz	-71.3	-34.8	-72.9	-72.9	-36.4	-36.4	-36.4
BURST	600	KHz	-83.3	-46.8	-81.3	-81.3	-44.9	-44.9	-44.9
1	800	KHz	-84.4	-47.9	-82.6	-82.6	-46.1	-46.1	-46.1
SA SB	1000	KHz	-81.9	-45.4	-83.4	-83.4	-46.9	-46.9	-46.9
SC EC	1200	KHz	-81.2	-44.7	-85.6	-85.6	-49.1	-49.1	-49.1
CORR	1400	KHz	-86.1	-49.6	-82.8	-82.8	-46.3	-46.3	-46.3
	1600	KHz	-85.1	-48.6	-84.8	-84.8	-48.3	-48.3	-48.3
	1800	KHz	-79.7	-43.2	-77.2	-77.2	-40.8	-40.8	-40.8

CENTER 1. 9754000 GHz
#RES BW 30 kHz #VBW 30 kHz
 SPAN 0 Hz
 #SWP 320 usec

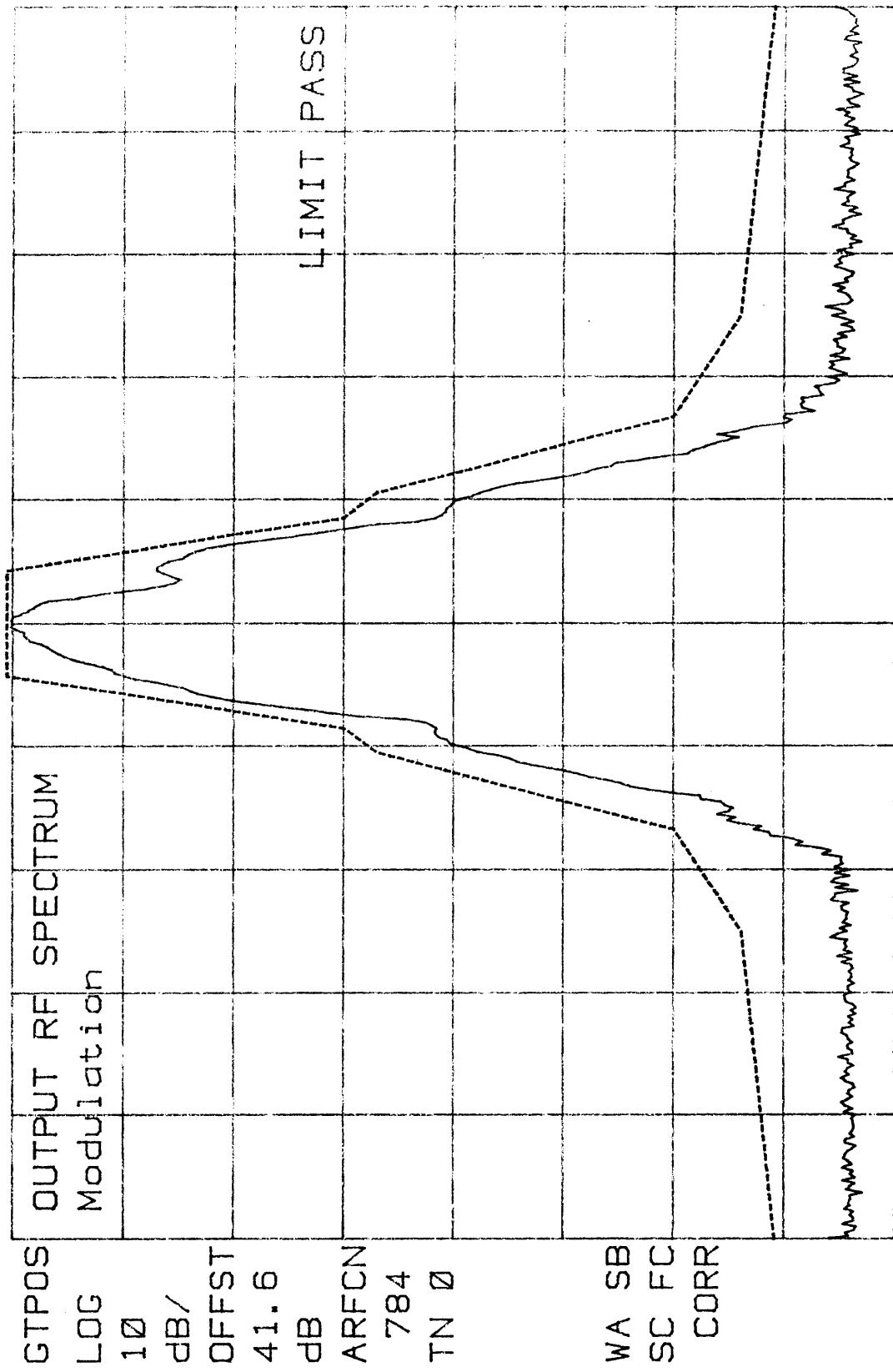
15:16:10 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.1 dBm #AT 10 dB



15:37:51 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.1 dBm #AT 10 dB



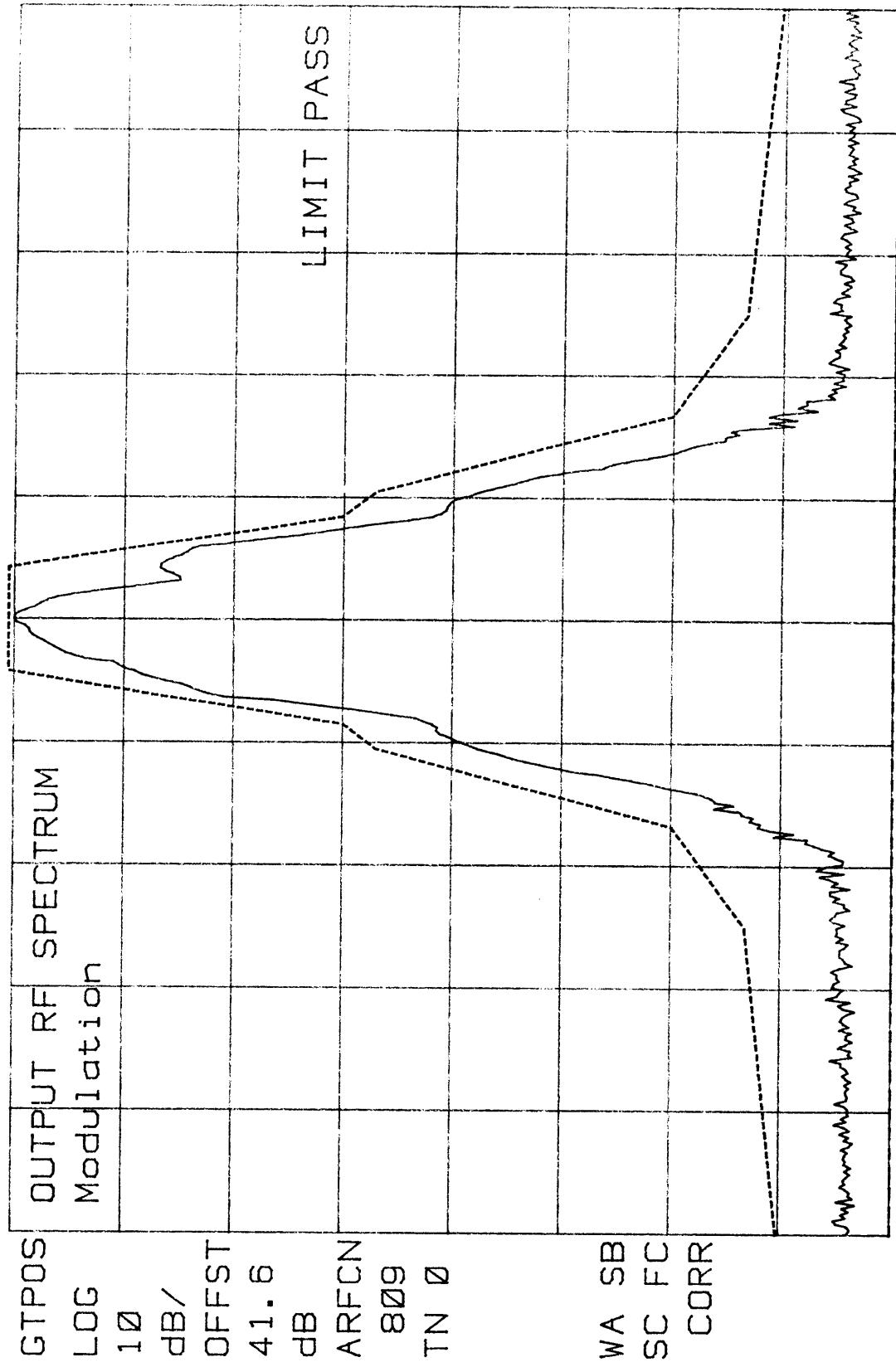
15: 42: 00 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: A55BTS2K-01
 REF 39.4 dBm #AT 10 dB

LOG		OUTPUT RF SPECTRUM				Modulation	
10	Offset	Freq	- Offset	dB	+ Offset	dB	dBm
DB /							
OFFST	0	KHz	0.	0	36.	5	0.
41.6	100	KHz	-10.	5	26.	0	36.
dB	200	KHz	-38.	6	-2.	1	7
ARFCN	250	KHz	-43.	5	-7.	0	21.
784	400	KHz	-70.	3	-33.	8	8
TN 0	600	KHz	-81.	3	-44.	8	-39.
BURST	800	KHz	-81.	7	-45.	2	3.
1	1000	KHz	-81.	8	-45.	3	-43.
SA SB	1200	KHz	-83.	5	-47.	0	9
SC EC	1400	KHz	-83.	3	-46.	8	-47.
CORR	1600	KHz	-84.	2	-47.	7	3.
	1800	KHz	-79.	2	-42.	6	-48.
						-78.	0
							-41.
							5

CENTER 1. 9846000 GHz
 #RES BW 30 kHz #VBW 30 kHz SPAN 0 Hz
 #SWP 320 usec

15:29:09 NOV 05, 1999
#Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.7 dBm #AT 10 dB



CENTER 1. 989600 GHz
#RES · BW 30 kHz #VBW 30 kHz SPAN 2. 400 MHz
#SWP 2. 00 sec

15:33:16 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.9 dBm #AT 10 dB

GT SMP OUTPUT RF SPECTRUM

Modulation

LOG 10 dB / OFFSET	Offset	Freq	- Offset		+ Offset	
			dB	dBm	dB	dBm
41.6	0	KHz	0.	0	36.	9
dB	100	KHz	-10.	5	26.	4
ARFCN	200	KHz	-38.	8	-1.	9
809	250	KHz	-43.	6	-6.	7
TN 0	400	KHz	-70.	5	-33.	7
BURST	600	KHz	-83.	4	-46.	5
1	800	KHz	-84.	5	-47.	6
SA SB	1000	KHz	-84.	9	-48.	0
SC EC	1200	KHz	-85.	8	-49.	0
CORR	1400	KHz	-84.	8	-47.	9
	1600	KHz	-85.	6	-48.	8
	1800	KHz	-78.	6	-41.	7

CENTER 1.9896000 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 0 Hz
#SWP 320 usec

MEASUREMENT: 3B

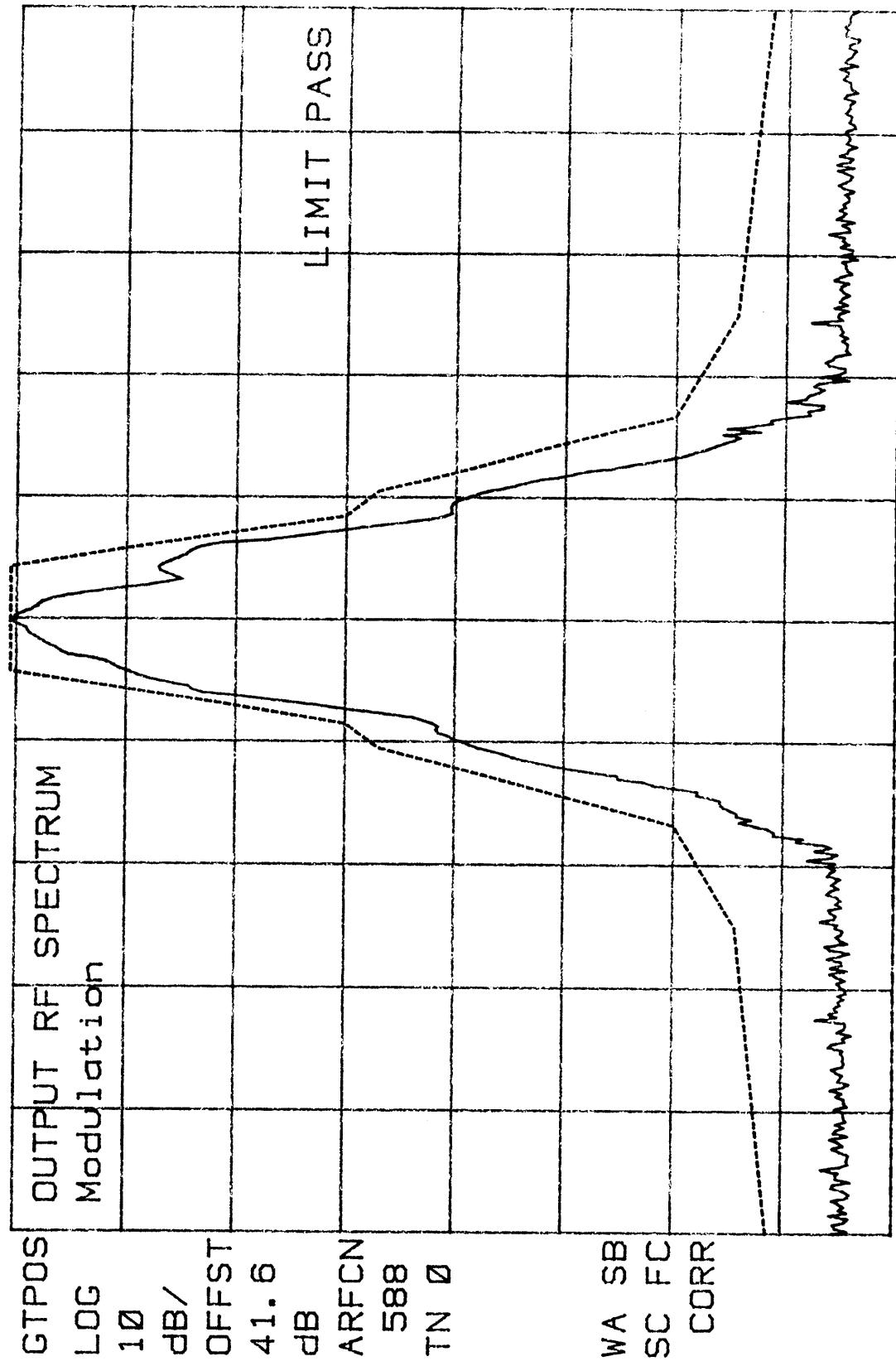
**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER
BLOCK D**

(1945 – 1950 MHz)

Left Edge: **1945.4 MHz (Channel 588)**
Center: **1947.6 MHz (Channel 599)**
Right Edge: **1949.6 MHz (Channel 609)**

20:04:05 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASSBTS2K-01
REF 38.6 dBm #AT 10 dB



CENTER 1. 945400 GHz
#RES BW 30 kHz
#VBW 30 kHz

SPAN 2. 400 MHz
#SWP 2. 00 sec

20:08:31 NOV 04, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
 REF 39.1 dBm #AT 10 dB

GTSMR OUTPUT RF SPECTRUM

LOG Modulation

OFFSET	Offset	Freq	- Offset		+ Offset	
			dB	dBm	dB	dBm
41.6	0	KHz	0.	0	0.	0
dB	100	KHz	-10.	2	25.	7
ARFCN	200	KHz	-39.	0	-3.	0
588	250	KHz	-42.	4	-6.	5
TN 0	400	KHz	-71.	0	-35.	0
BURST	600	KHz	-82.	0	-46.	1
1	800	KHz	-83.	2	-47.	2
SA SB	1000	KHz	-81.	4	-45.	5
SC EC	1200	KHz	-83.	5	-47.	5
CORR	1400	KHz	-83.	8	-47.	8
	1600	KHz	-83.	4	-47.	5
	1800	KHz	-78.	4	-42.	4

CENTER 1.9454000 GHz
 #RES BW 30 kHz #VBW 30 kHz
 SPAN 0 Hz #SWP 320 usec

20:30:46 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASS5BTS2K-01
REF 39.3 dBm #AT 10 dB

GTSMR OUTPUT RF SPECTRUM

LOG Modulation

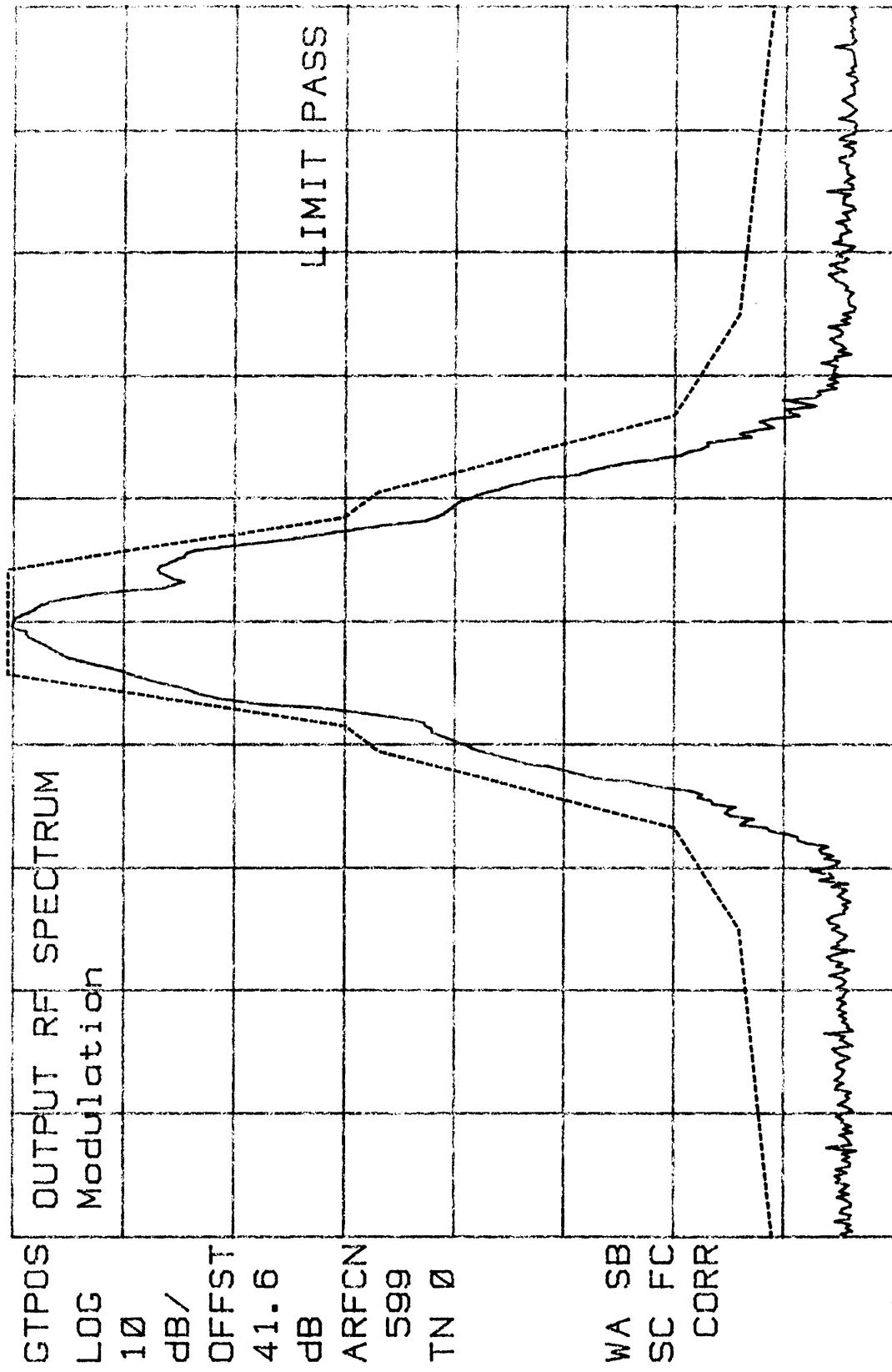
OFFSET	Offset	Freq	dB	- Offset	dBm	+ Offset	dBm
41.6 dB	0 kHz	0.0	36.2	0.	0.	0.	36.2
dB	100 kHz	-10.2	26.0	-14.	4	21.	8
ARFCN	200 kHz	-38.3	-2.1	-39.	9	-3.	8
599	250 kHz	-42.6	-6.4	-43.	9	-7.	8
TN 0	400 kHz	-71.5	-35.4	-75.	8	-39.	6
BURST	600 kHz	-82.0	-45.8	-79.	9	-43.	7
1	800 kHz	-82.6	-46.5	-82.	8	-46.	6
1000 kHz	-83.6	-47.4	-86.	6	-50.	4	
1200 kHz	-82.7	-46.5	-86.	2	-50.	0	
SA SB	1400 kHz	-81.7	-45.5	-85.	0	-48.	8
SC EC	1600 kHz	-84.9	-48.7	-85.	6	-49.	4
CORR	1800 kHz	-39.8	-3.6	-78.	0	-41.	8

CENTER 1.9476000 GHz
#RES BW 30 kHz #VBW 30 kHz #SWP 320 μsec

SPAN 0 Hz

20:25:49 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 38.9 dBm #AT 10 dB

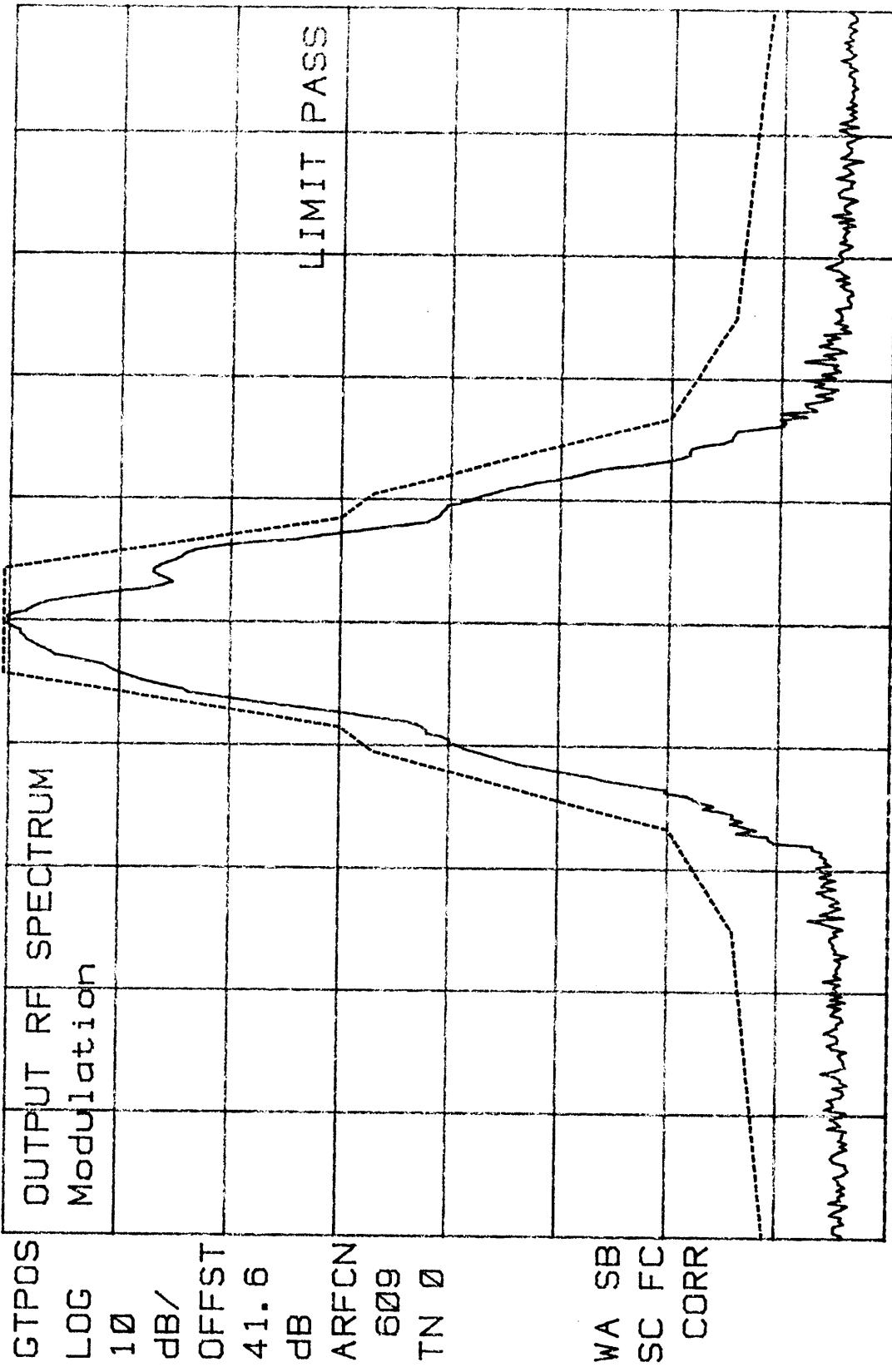


CENTER 1. 947600 GHz
#RES BW 30 kHz
#VBW 30 kHz

SPAN 2. 400 MHz
#SWP 2. 00 sec

20:13:40 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 38.9 dBm #AT 10 dB



20: 18: 30 NOV 04, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.4 dBm #AT 10 dB

GTSMF OUTPUT RF SPECTRUM

LOG Modulation

OFFSET	dB /	Offset	Freq	- Offset		+ Offset		
				dB	dBm	dB	dBm	
41.6	dB	0	0 kHz	0.	0	36.	2	
	dB	100	kHz	-10.	2	26.	0	
ARFCN	200	kHz	-39.	0	-2.	8	-14.	4
609	250	kHz	-42.	4	-6.	2	-39.	3
TN 0	400	kHz	-70.	0	-33.	8	-44.	2
BURST	600	kHz	-82.	6	-46.	5	-75.	5
1	800	kHz	-84.	2	-48.	0	-81.	2
SA SB	1000	kHz	-83.	4	-47.	2	-84.	4
SC EC	1200	kHz	-86.	1	-49.	9	-83.	4
CORR	1400	kHz	-85.	3	-49.	1	-85.	7
	1600	kHz	-82.	1	-45.	9	-81.	2
	1800	kHz	-77.	0	-40.	8	-84.	4
						-78.	4	
						-42.	2	

CENTER 1. 94960000 GHz

#RES BW 30 kHz

SPAN 0 Hz

#SWP 320 usec

MEASUREMENT: 3B

**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER
BLOCK E
(1965 – 1970 MHz)**

**Left Edge: 1965.4 MHz (Channel 688)
Center: 1967.6 MHz (Channel 699)
Right Edge: 1969.6 MHz (Channel 709)**

21:16:31 NOV 04, 1999
#

FCC ID: AS5BTS2K-01

REF 39.2 dBm #AT 10 dB

GTSMP OUTPUT RF SPECTRUM
LOG Modulation

10 dB/ OFFSET	Offset Freq kHz	- Offset dB	+ Offset dB	+ Offset dBm
41.6 dB	0 kHz	0. 0	36. 0	36. 0
ARFCN 688	100 kHz	-10. 2	25. 9	-14. 5
TN 0	200 kHz	-39. 1	-3. 1	-39. 4
BURST 1	250 kHz	-42. 4	-6. 3	-44. 3
SA SB	400 kHz	-70. 3	-34. 2	-74. 0
SC EC	600 kHz	-83. 3	-47. 2	-80. 5
CORR	800 kHz	-81. 9	-45. 9	-82. 9
	1000 kHz	-83. 1	-47. 0	-84. 9
	1200 kHz	-87. 6	-51. 5	-84. 9
	1400 kHz	-86. 3	-50. 3	-83. 7
	1600 kHz	-85. 2	-49. 1	-83. 0
	1800 kHz	-78. 5	-42. 5	-79. 6

CENTER 1.9654000 GHz
#RES BW 30 kHz

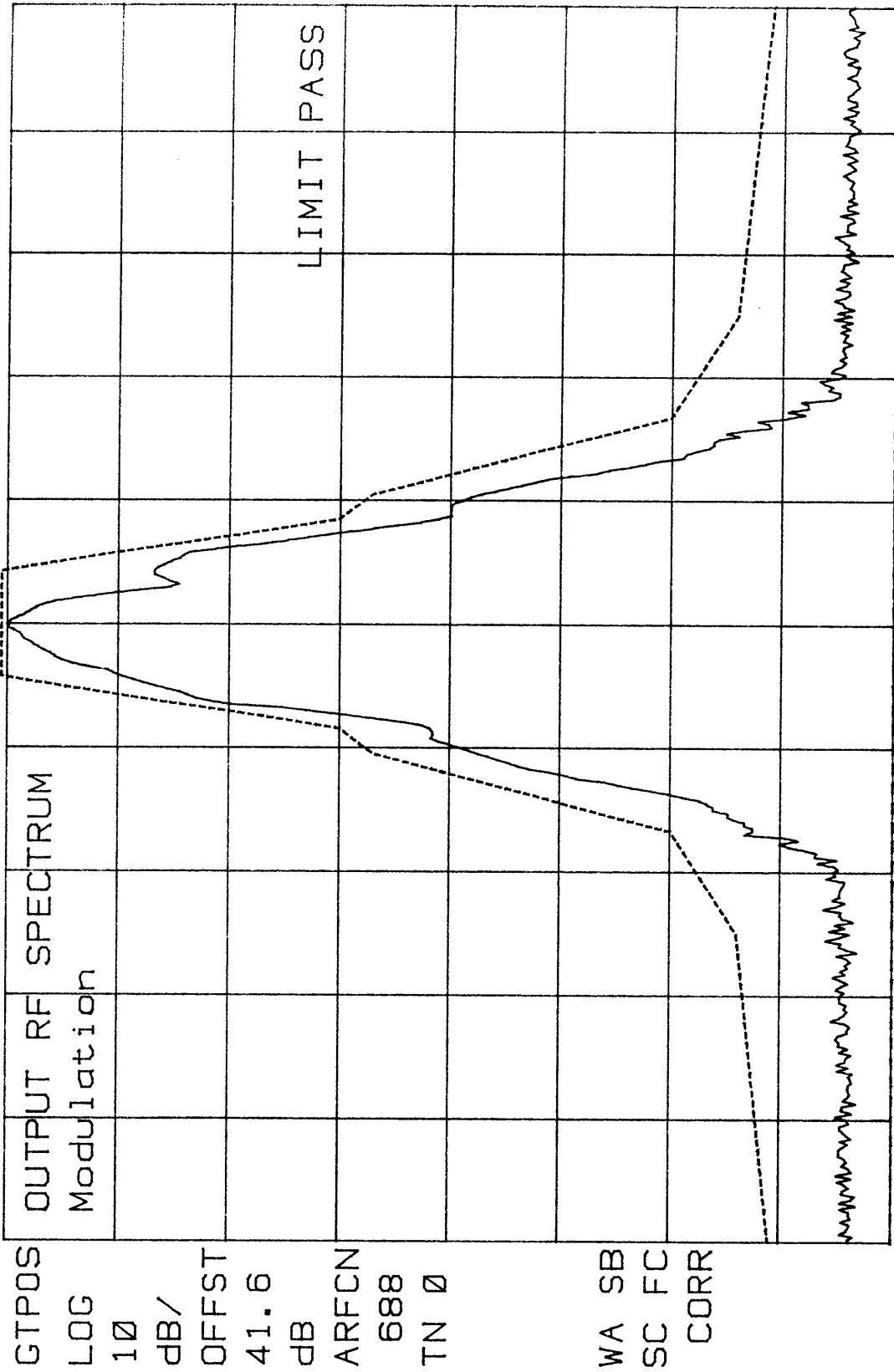
SPAN 0 Hz
#SWP 320 usec

21:11:24 NOV 04, 1999
//

FCC ID: AS5BTS2K-01

REF 39.0 dBm

#AT 10 dB



14:41:26 NOV 05, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: ASSBTS2K-01
 REF 39.5 dBm #AT 10 dB

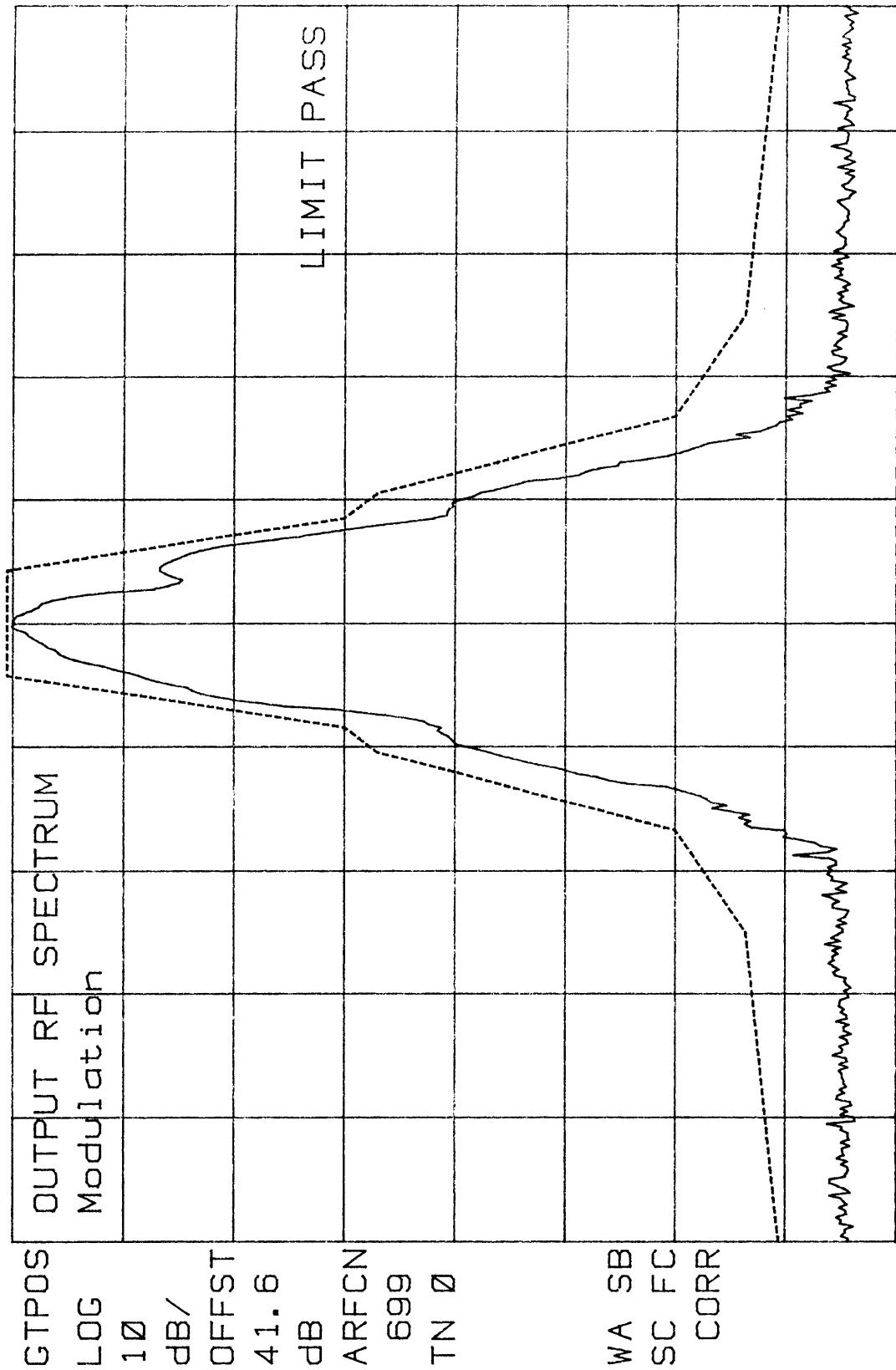
GTSMP LOG		OUTPUT RF SPECTRUM Modulation			- Offset Freq			+ Offset		
dB /	Offset	Freq	dB	dBm	dBm	dB	dBm	dB	dBm	
OFFSET	0	KHz	0.	0	36.6	0.	0	36.6	0	
41.6	100	KHz	-10.	4	26.2	-14.	5	22.	1	
dB	200	KHz	-38.	6	-2.	1	-40.	0	-3.	
ARFCN	250	KHz	-43.	4	-6.	8	-43.	0	-6.	
699	400	KHz	-70.	2	-33.	6	-75.	1	-38.	
TN 0	600	KHz	-80.	5	-43.	9	-84.	1	-47.	
BURST	800	KHz	-84.	6	-48.	0	-83.	9	-47.	
1	1000	KHz	-85.	9	-49.	3	-83.	6	-47.	
SA SB	1200	KHz	-81.	8	-45.	2	-83.	4	-46.	
SC EC	1400	KHz	-82.	5	-46.	0	-85.	3	-48.	
CORR	1600	KHz	-82.	4	-45.	8	-84.	6	-48.	
	1800	KHz	-39.	3	-2.	7	-79.	4	-42.	

CENTER 1. 9676000 GHz
 #RES BW 30 kHz #VBW 30 kHz #SWP 320 μsec

SPAN 0 Hz

14:30:20 NOV 05, 1999
Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01

REF 39.4 dBm #AT 10 dB



CENTER 1. 967600 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 2.400 MHz
#SWP 2.00 sec

21:52:59 NOV 04, 1999



FCC ID: AS5BTS2K-01

REF 39.6 dBm #AT 10 dB

GT SMP OUTPUT RF SPECTRUM

LOG Modulation

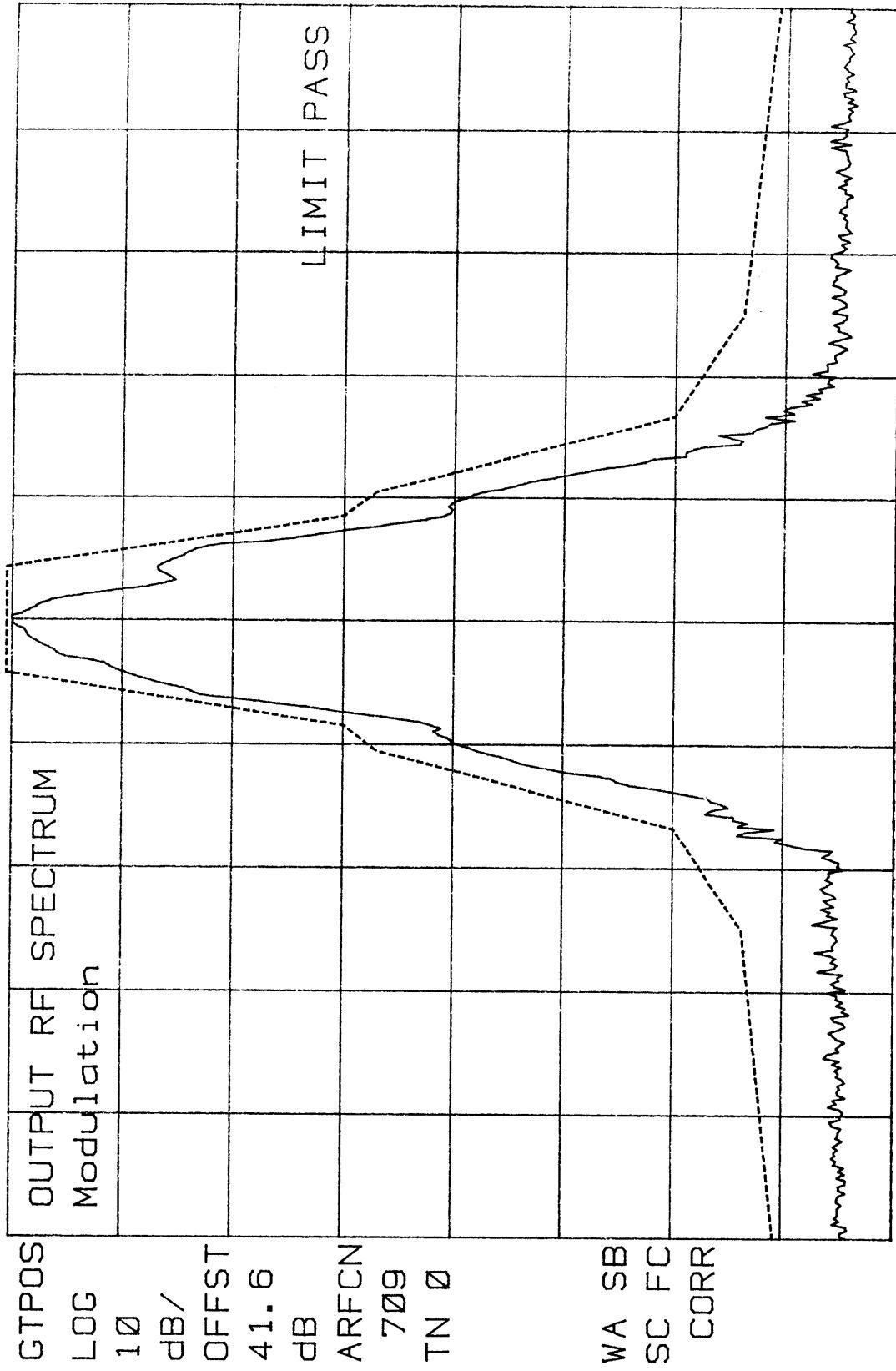
10 dB/ OFFSET	Offset Freq kHz	- Offset dB	+ Offset dB	dBm	dBm
41.6 dB	0 kHz	0. 0	36. 4	0. 0	36. 4
ARFCN 709	100 kHz	-10. 2	26. 2	-14. 4	21. 9
TN 0	200 kHz	-38. 7	-2. 3	-39. 3	-2. 9
BURST 1	250 kHz	-42. 7	-6. 3	-44. 2	-7. 8
SA SB SC EC CORR	400 kHz	-70. 0	-33. 7	-73. 3	-36. 9
	600 kHz	-80. 0	-43. 7	-79. 8	-43. 5
	800 kHz	-82. 6	-46. 2	-82. 5	-46. 2
	1000 kHz	-83. 3	-47. 0	-82. 5	-46. 2
	1200 kHz	-84. 4	-48. 0	-84. 6	-48. 2
	1400 kHz	-83. 5	-47. 1	-83. 7	-47. 3
	1600 kHz	-83. 2	-46. 9	-83. 5	-47. 2
	1800 kHz	-77. 2	-40. 8	-78. 3	-42. 0

CENTER 1.9696000 GHz
#RES BW 30 kHz

SPAN 0 Hz
#SWP 320 usec

21:48:49 NOV 04, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: A55BTS2K-01
REF 39.2 dBm #AT 10 dB



CENTER 1.969600 GHz
#RES BW 30 kHz #VBW 30 kHz SPAN 2.400 MHz
#SWP 2.00 sec

MEASUREMENT: 3B

**MEASUREMENT
OF
OCCUPIED BANDWIDTH
AFTER COMBINER
BLOCK F
(1970 – 1975 MHz)**

**Left Edge: 1970.4 MHz (Channel 713)
Center: 1972.6 MHz (Channel 724)
Right Edge: 1974.6 MHz (Channel 734)**

14:53:42 NOV 05, 1999

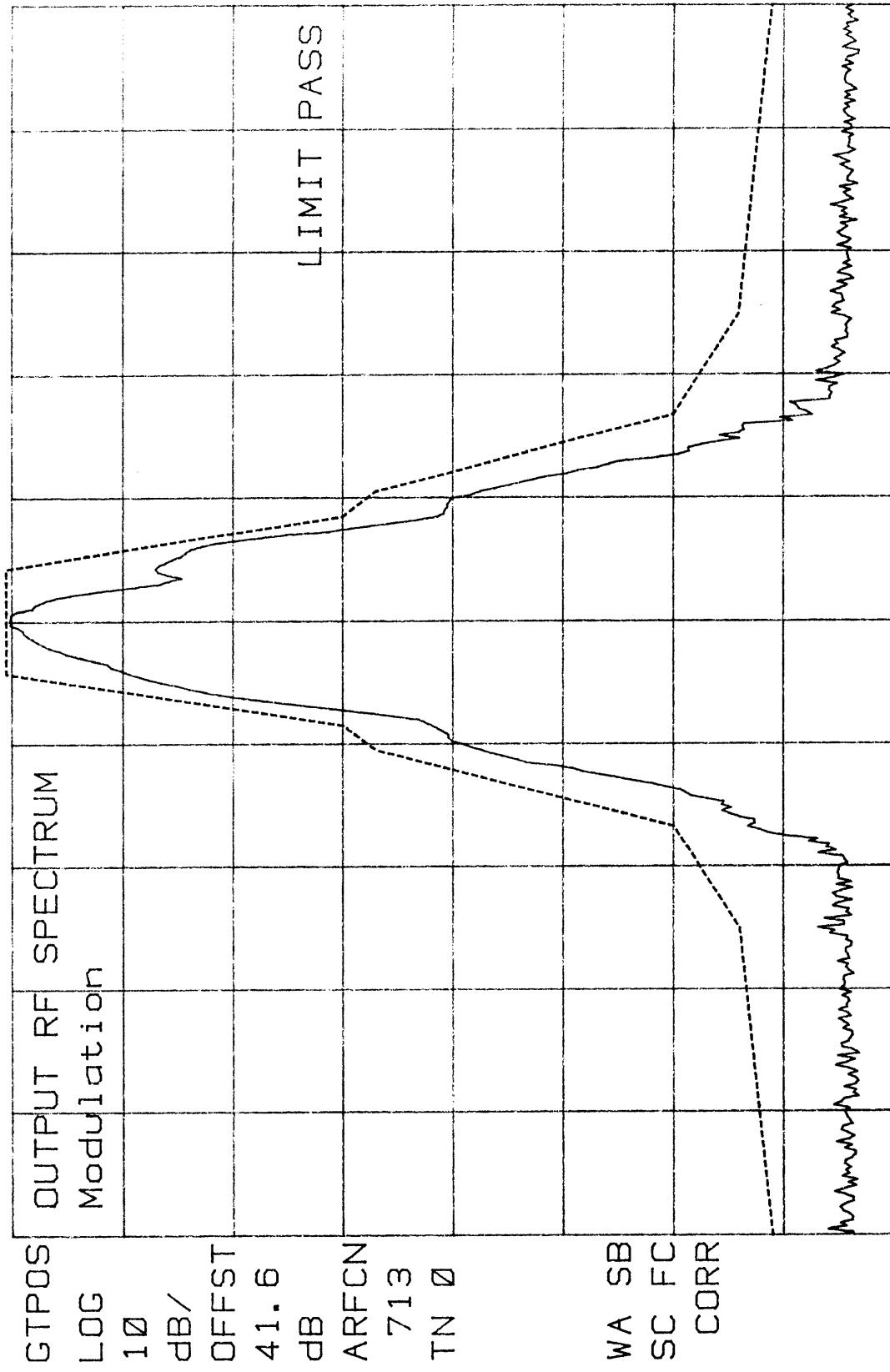
/# Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
 REF 39.3 dBm #AT 10 dB

LOG 10 dB/ OFFSET	OUTPUT RF SPECTRUM			Modulation		
	Offset	Freq	dB	- Offset	dB	+ Offset
		dBm	dBm	dB	dBm	
41.6	0 kHz	0.0	36.4	0.0	0.0	36.4
dB	100 kHz	-10.4	26.0	-14.5	-14.5	21.9
ARFCN	200 kHz	-38.6	-2.2	-40.1	-40.1	-3.7
713	250 kHz	-43.9	-7.5	-43.9	-43.9	-7.5
TN 0	400 kHz	-71.7	-35.3	-73.2	-73.2	-36.8
BURST	600 kHz	-79.3	-42.9	-82.4	-82.4	-46.0
1	800 kHz	-82.7	-46.3	-80.7	-80.7	-44.3
SA SB	1000 kHz	-86.2	-49.8	-83.2	-83.2	-46.8
SC EC	1200 kHz	-84.6	-48.2	-83.4	-83.4	-47.0
CORR	1400 kHz	-84.9	-48.5	-82.8	-82.8	-46.4
	1600 kHz	-86.9	-50.5	-82.8	-82.8	-46.4
	1800 kHz	-77.8	-41.4	-78.6	-78.6	-42.2

CENTER 1.9704000 GHz
 #RES BW 30 kHz #VBW 30 kHz SPAN 0 Hz
 #SWP 320 usec

14:49:24 NOV 05, 1999

% Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.0 dBm #AT 10 dB

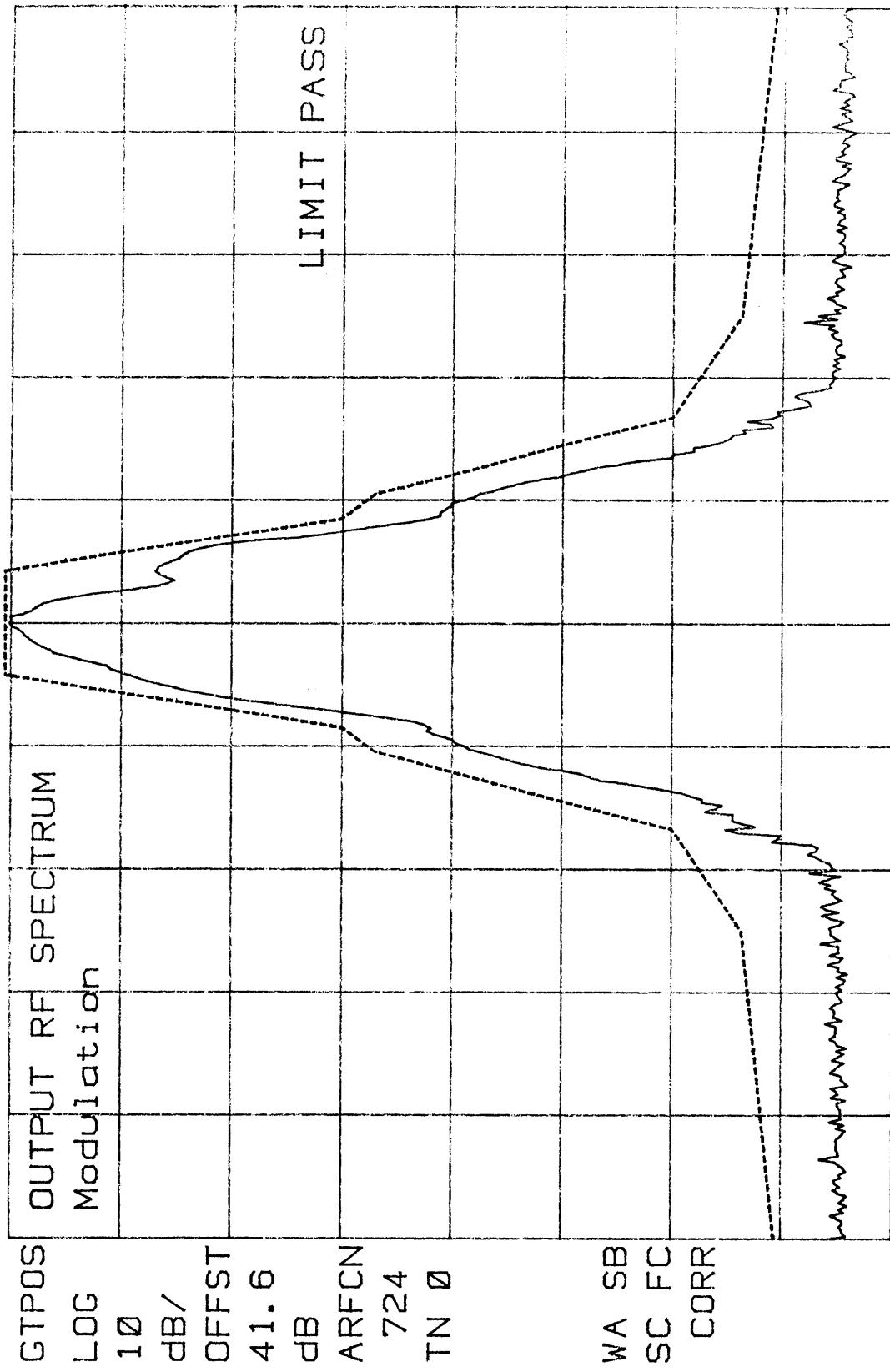


CENTER 1.970400 GHz
#RES BW 30 kHz #VBW 30 kHz

SPAN 2.400 MHz
#SWP 2.00 sec

15:07:20 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.3 dBm #AT 10 dB



CENTER 1.972600 GHz
#RES BW 30 kHz
#SWP 2.00 sec

15:11:13 NOV 05, 1999

/ Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
 REF 39.7 dBm #AT 10 dB

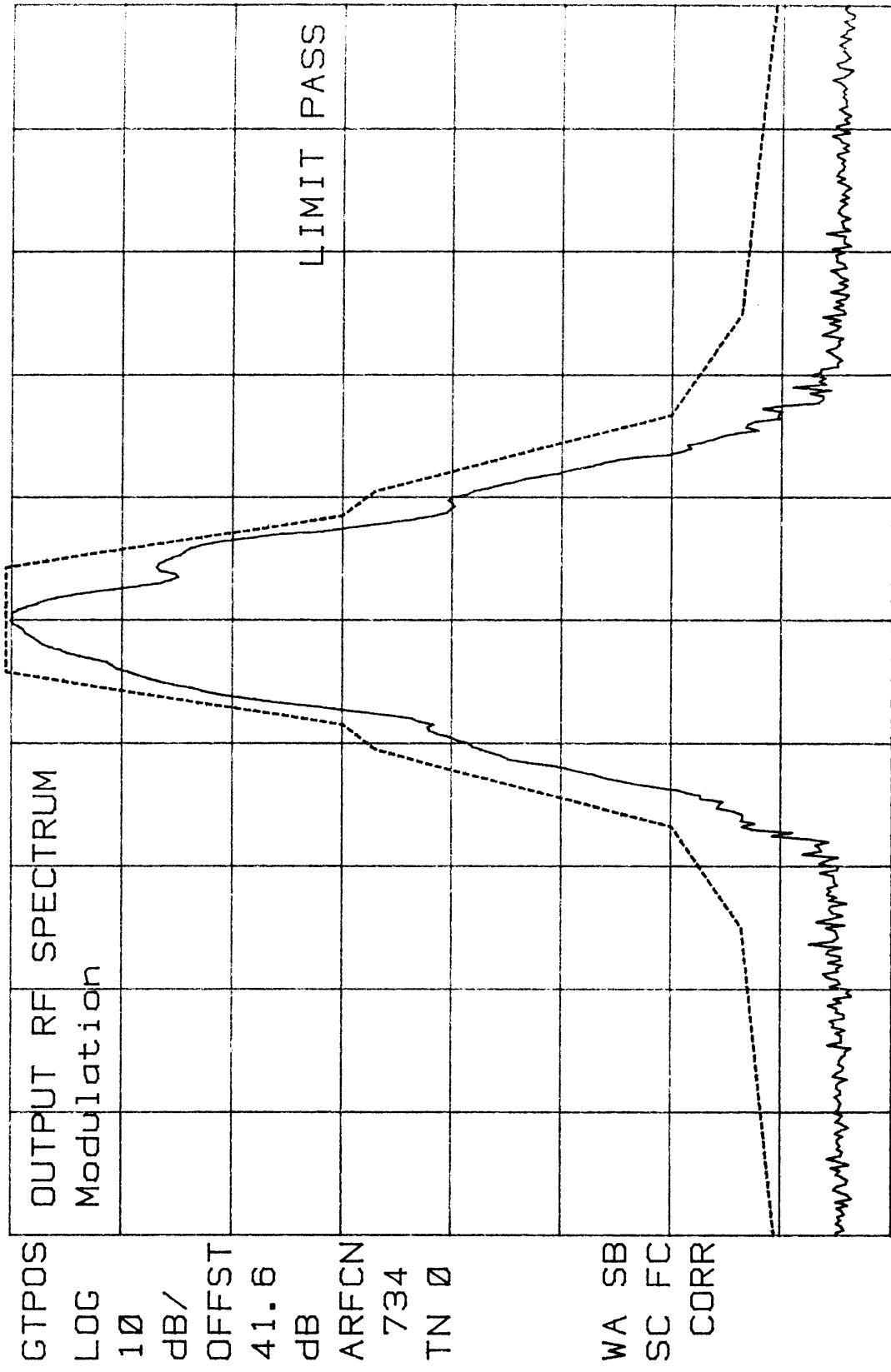
LOG dB/ OFFSET	OUTPUT RF SPECTRUM			+ Offset			- Offset		
	Modulation	Offset	Freq	dB	dBm	dB	dBm	dB	dBm
41.6	0	KHz	0.0	36.7	0.0	36.7	0.0	36.7	0.0
dB	100	KHz	-10.4	26.3	-14.5	22.2	200	200	200
ARFCN	200	KHz	-38.4	-1.7	-39.7	-3.0	250	250	250
724	250	KHz	-43.3	-6.6	-43.5	-6.8	400	400	400
TN 0	400	KHz	-73.2	-36.5	-73.6	-36.9	600	600	600
BURST	600	KHz	-78.2	-41.5	-79.5	-42.7	800	800	800
1	800	KHz	-82.6	-45.8	-82.5	-45.7	1000	1000	1000
SA SB	1000	KHz	-83.5	-46.8	-84.7	-48.0	1200	1200	1200
SC EC	1200	KHz	-84.4	-47.7	-80.8	-44.1	1400	1400	1400
CORR	1400	KHz	-82.6	-45.9	-83.7	-47.0	1600	1600	1600
	1600	KHz	-84.9	-48.2	-82.6	-45.8	1800	1800	1800

CENTER 1.9726000 GHz
 #RES BW 30 kHz #VBW 30 kHz

SPAN 0 Hz
 #SWP 320 usec

14:58:07 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: AS5BTS2K-01
REF 39.4 dBm #AT 10 dB



15: 02: 37 NOV 05, 1999

Occupied B/W. PWR MTR: 45.3 dBm. FCC ID: A55BTS2K-01
REF 39.6 dBm #AT 10 dB

GT SMP LOG		OUTPUT RF SPECTRUM			
10 dB /	Modulation	- Offset Freq	dB	- Offset dBm	+ Offset dBm
OFFST	0 kHz	0. 0	36. 8	0. 0	36. 8
41.6 dB	100 kHz	-10. 5	26. 3	-14. 4	22. 4
ARFCN	200 kHz	-39. 0	-2. 3	-39. 6	-2. 8
734	250 kHz	-43. 8	-7. 0	-43. 6	-6. 8
TN 0	400 kHz	-72. 9	-36. 1	-73. 9	-37. 1
BURST	600 kHz	-82. 1	-45. 3	-83. 1	-46. 3
1	800 kHz	-84. 7	-47. 9	-83. 7	-46. 9
SA SB	1000 kHz	-84. 6	-47. 8	-82. 9	-46. 1
SC EC	1200 kHz	-82. 6	-45. 8	-83. 3	-46. 5
CORR	1400 kHz	-85. 1	-48. 4	-86. 1	-49. 3
	1600 kHz	-84. 2	-47. 4	-80. 9	-44. 1
	1800 kHz	-77. 9	-41. 1	-79. 2	-42. 4

CENTER 1. 9746000 GHz
#RES BW 30 kHz #VBW 30 kHz SPAN 0 Hz
#SWP 320 usec