

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: AS5FLX-01 “Flexent GSM 1900 Transceiver” model TRX19 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 256 kHz. This determines:

- (1) Emission type : 256KGXW
- (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: AS5FLX-01 “Flexent GSM 1900 Transceiver” model TRX19 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 without combiner and Figure 3B shows occupied Bandwidth with 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 corresponds 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.”

Results:

The results presented as plots for single carrier:

1. For single carrier with TRX19 output directly connected to J4.
2. For single carrier of two carrier combined system.

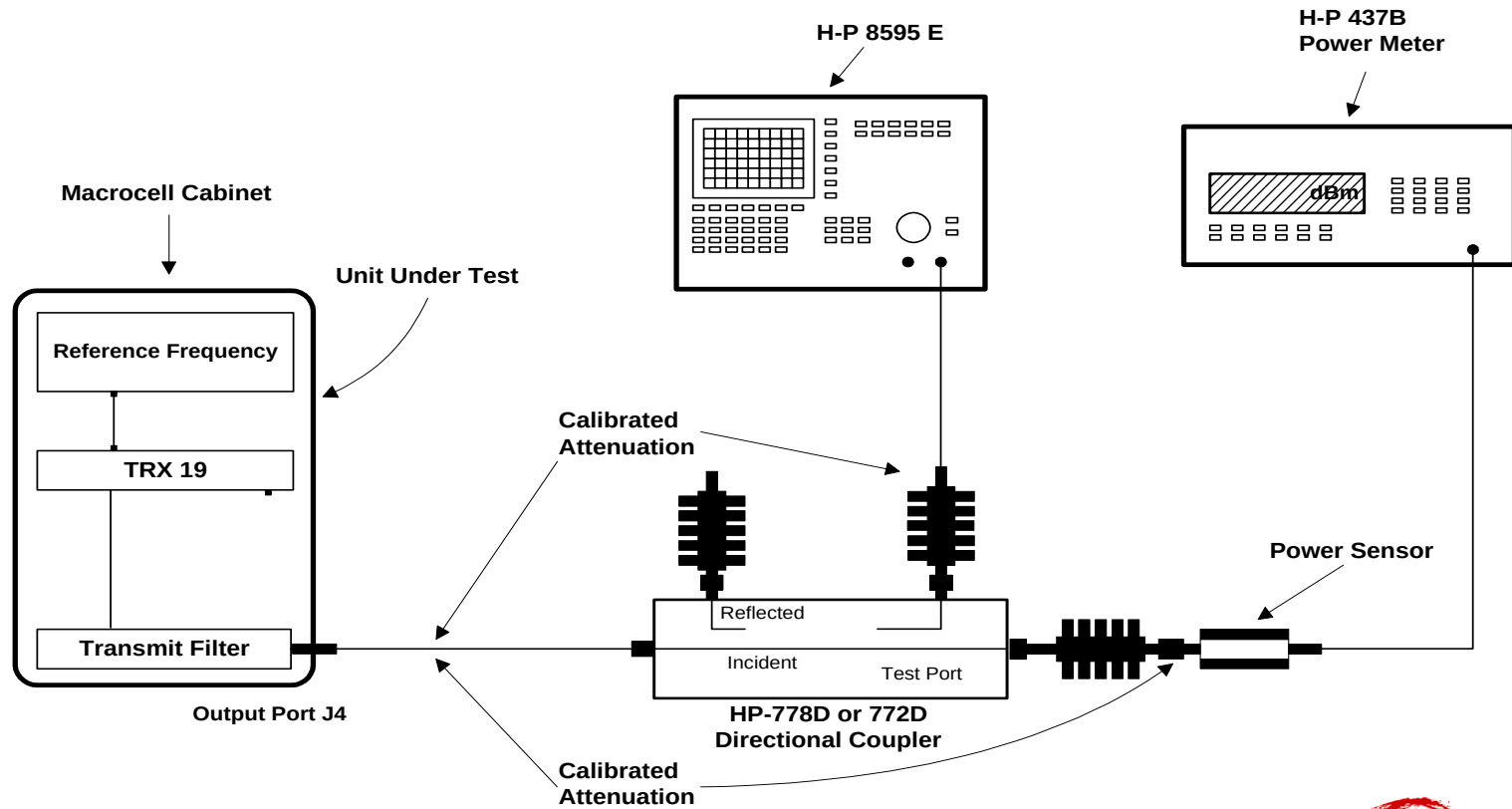
$$dl(n) = 1930.2 + 0.2 \cdot (n - 512) / \text{MHz}$$

$$ul(n) = 1850.2 + 0.2 \cdot (n - 512) / \text{MHz}$$

n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	n	uplink	bl	downlink	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	B	1952,8	663	1880,4	B	1960,4	701	1888,0	E	1968,0	739	1895,6	C	1975,6	777	1903,2	C	1983,2								

Note:. Channels high lighted are **not available for GSM1900**, in accordance with **FCC Part 24**

Figure 3A. TEST CONFIGURATION FOR OCCUPIED BANDWIDTH



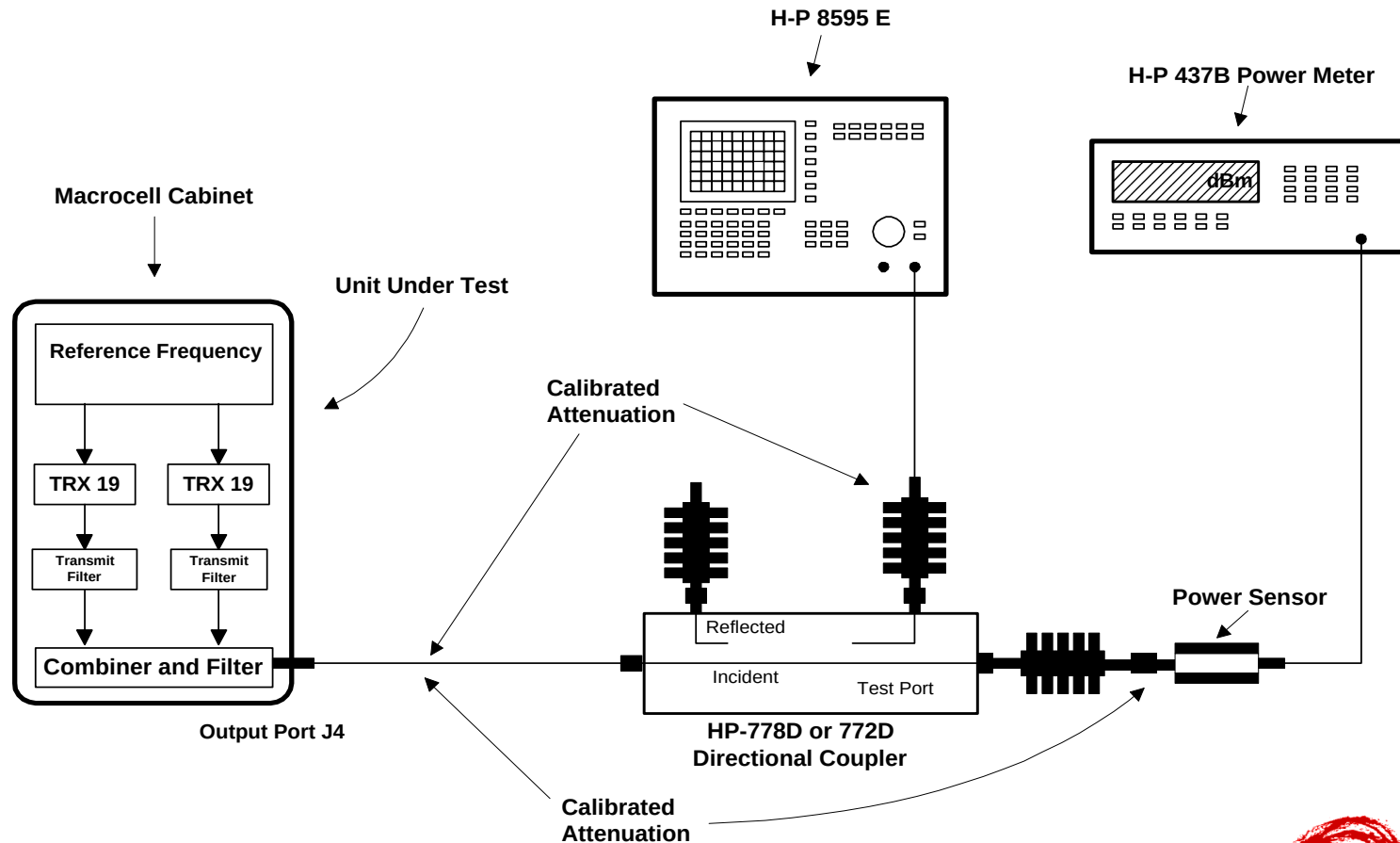
Lucent Technologies Inc. - Proprietary
Use pursuant to Company Instructions

All components are calibrated over the frequency range of interest

Lucent Technologies
Bell Labs Innovations



Figure 3B. TEST CONFIGURATION FOR OCCUPIED BANDWIDTH



All components are calibrated over the frequency range of interest

Lucent Technologies
Bell Labs Innovations



MEASUREMENT OF OCCUPIED BANDWIDTH

SECTION 24.238(b) – Measurement 3A

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK A

(1930 – 1945 MHz)

Left Edge: 1930.4 MHz (Channel 513)

Right Edge: 1944.6 MHz (Channel 584)

19 MAY 2000

FCC ID: AS5FLX-01
Block A Channel 513

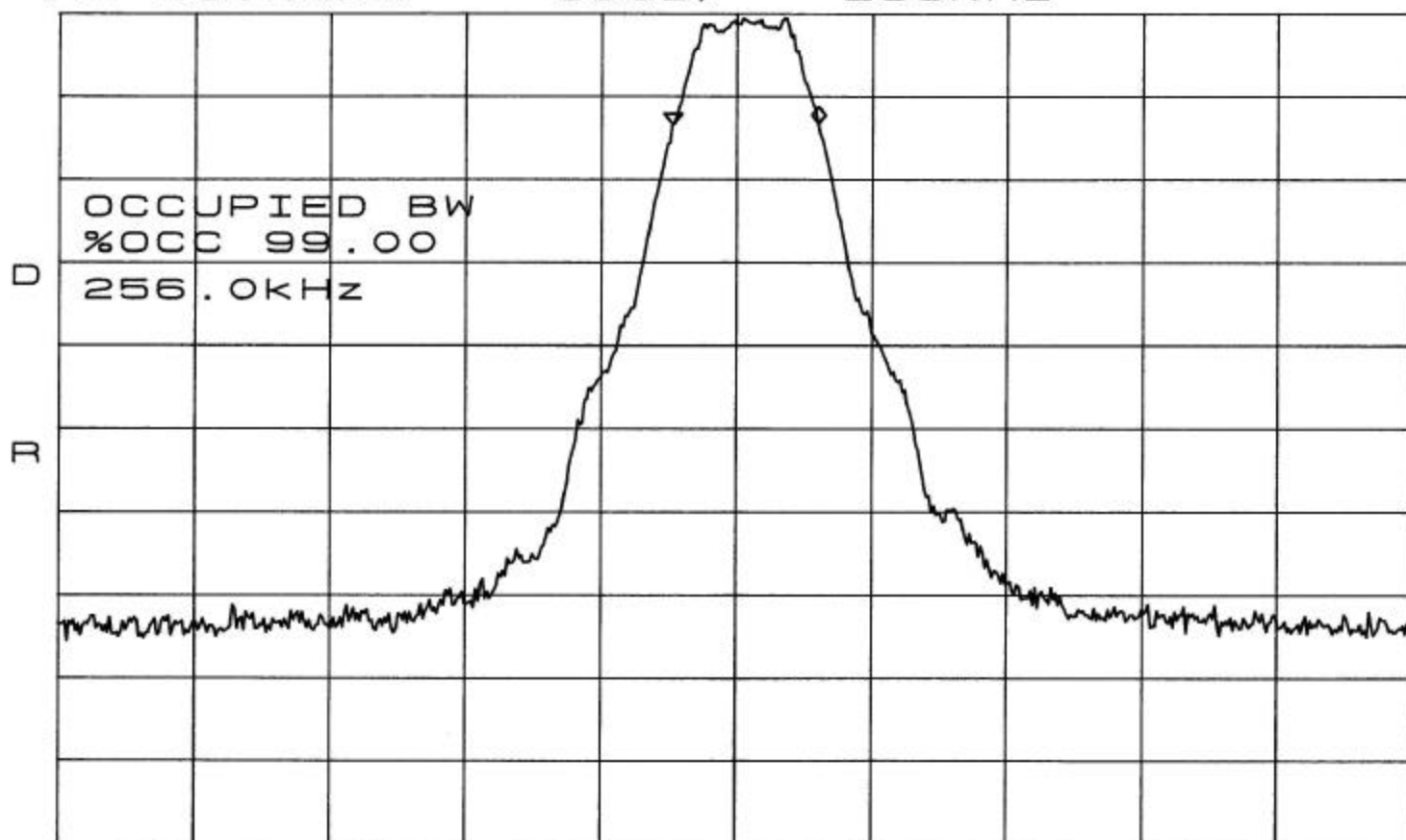
ATTEN 20dB

RL 45.4dBm

10dB/

Δ MKR .16dB

256kHz



CENTER 1.930400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

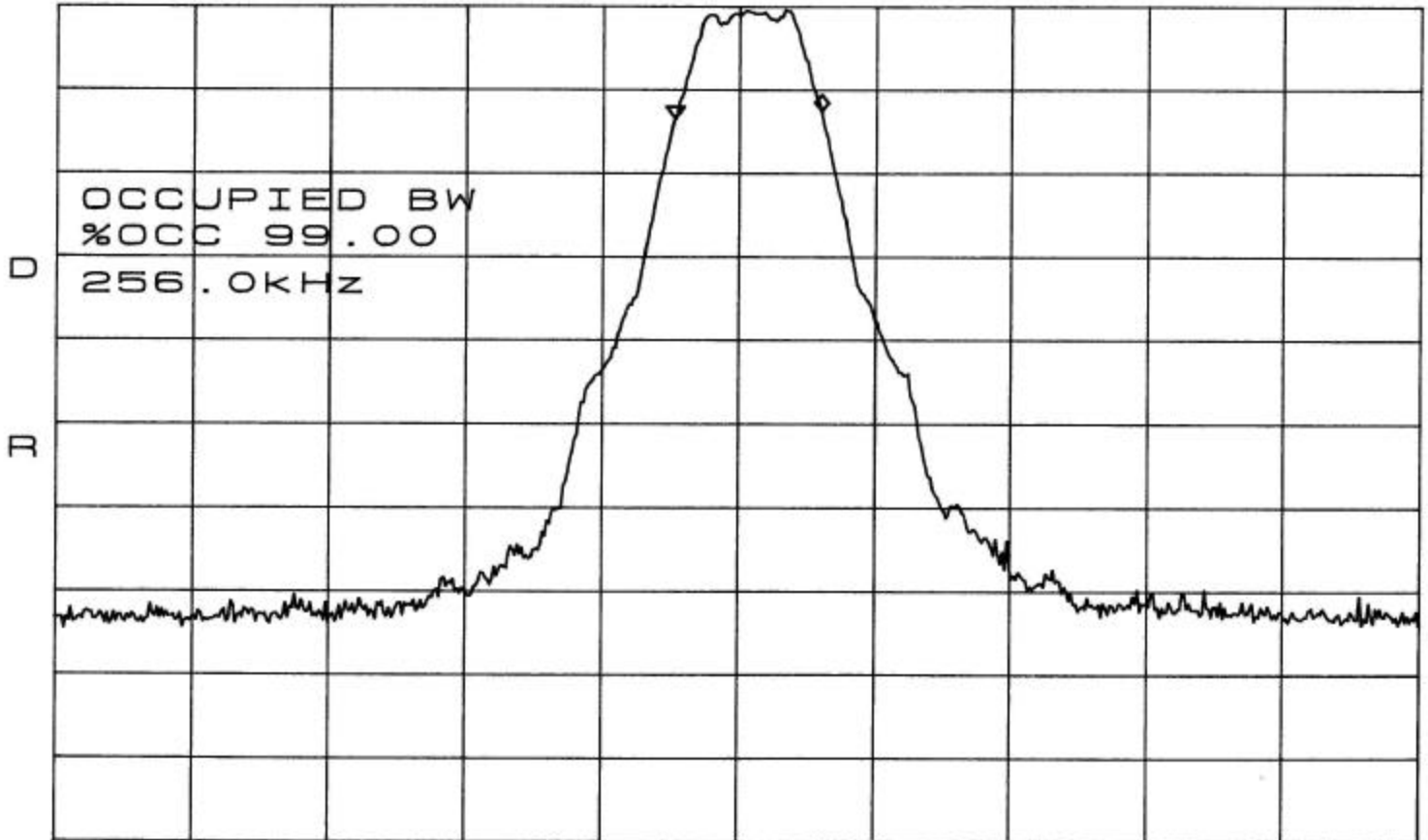
19 MAY 2000

FCC ID: AS5FLX-01
Block A Channel 584

ATTEN 20dB
RL 45.4dBm

Δ MKR .83dB
256kHz

10dB/



CENTER 1.944600GHz
RBW 30kHz VBW 30kHz

SPAN 2.400MHz
SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK B

(1950 – 1965 MHz)

Left Edge: 1950.4 MHz (Channel 613)

Right Edge: 1964.6 MHz (Channel 684)

19 MAY 2000

FCC ID: AS5FLX-01
Block B Channel 613

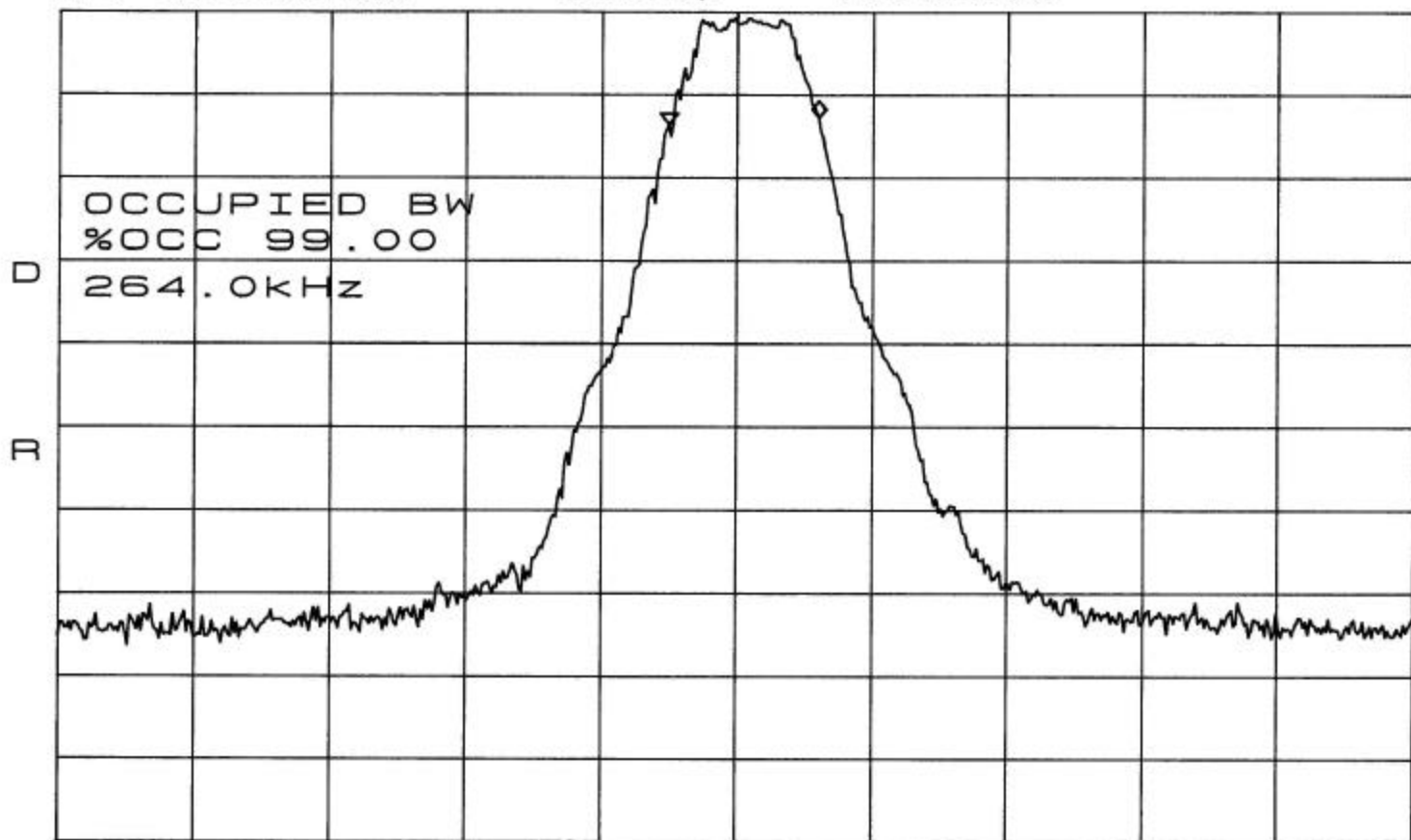
ATTEN 20dB

RL 45.4dBm

10dB/

ΔMKR .83dB

264kHz



CENTER 1.950400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

19 MAY 2000

FCC ID: AS5FLX-01
Block B Channel 684

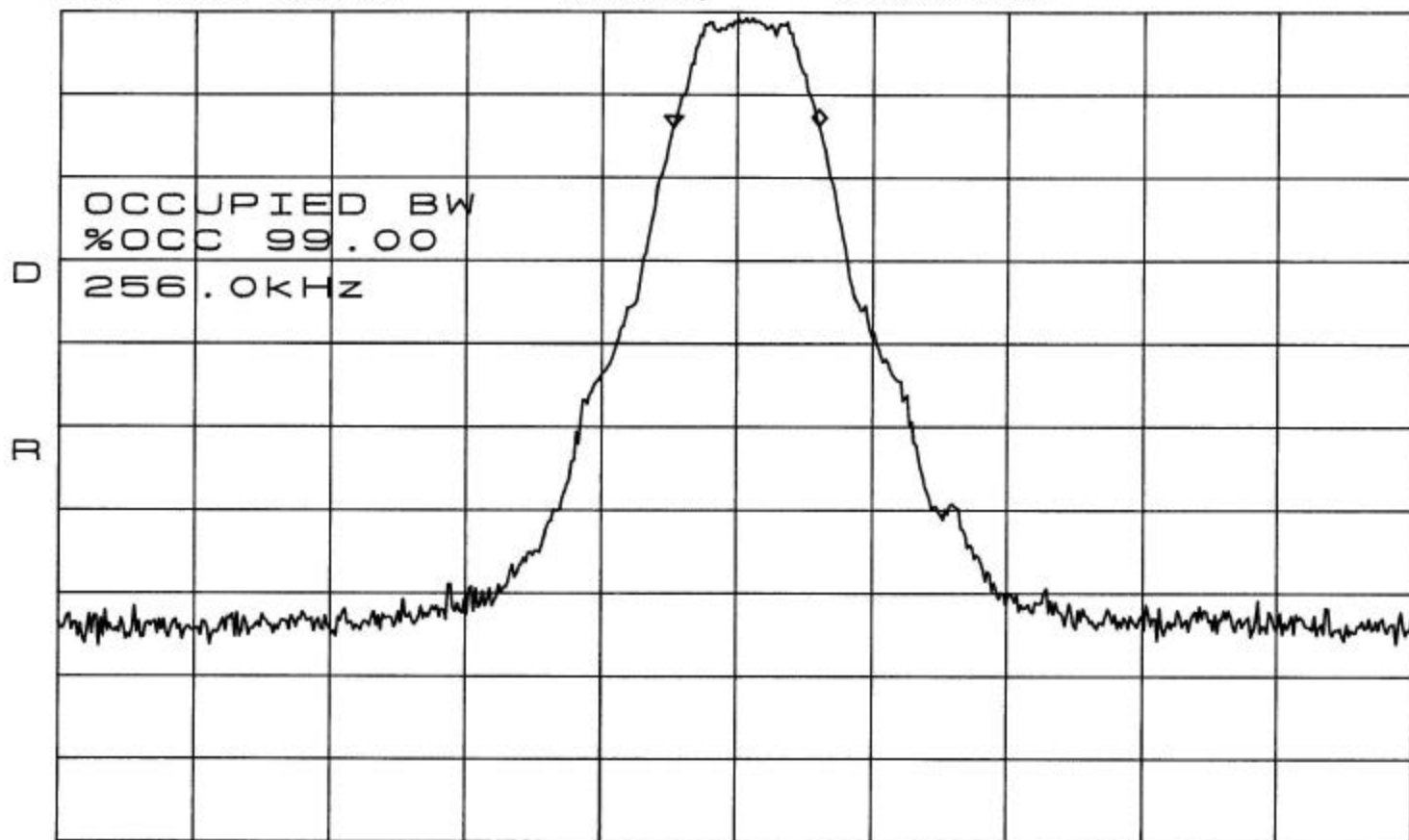
ATTEN 20dB

RL 45.4dBm

10dB/

Δ MKR .16dB

256kHz



CENTER 1.964600GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK C

(1975 – 1990 MHz)

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

19 MAY 2000

FCC ID: AS5FLX-01
Block C Channel 738

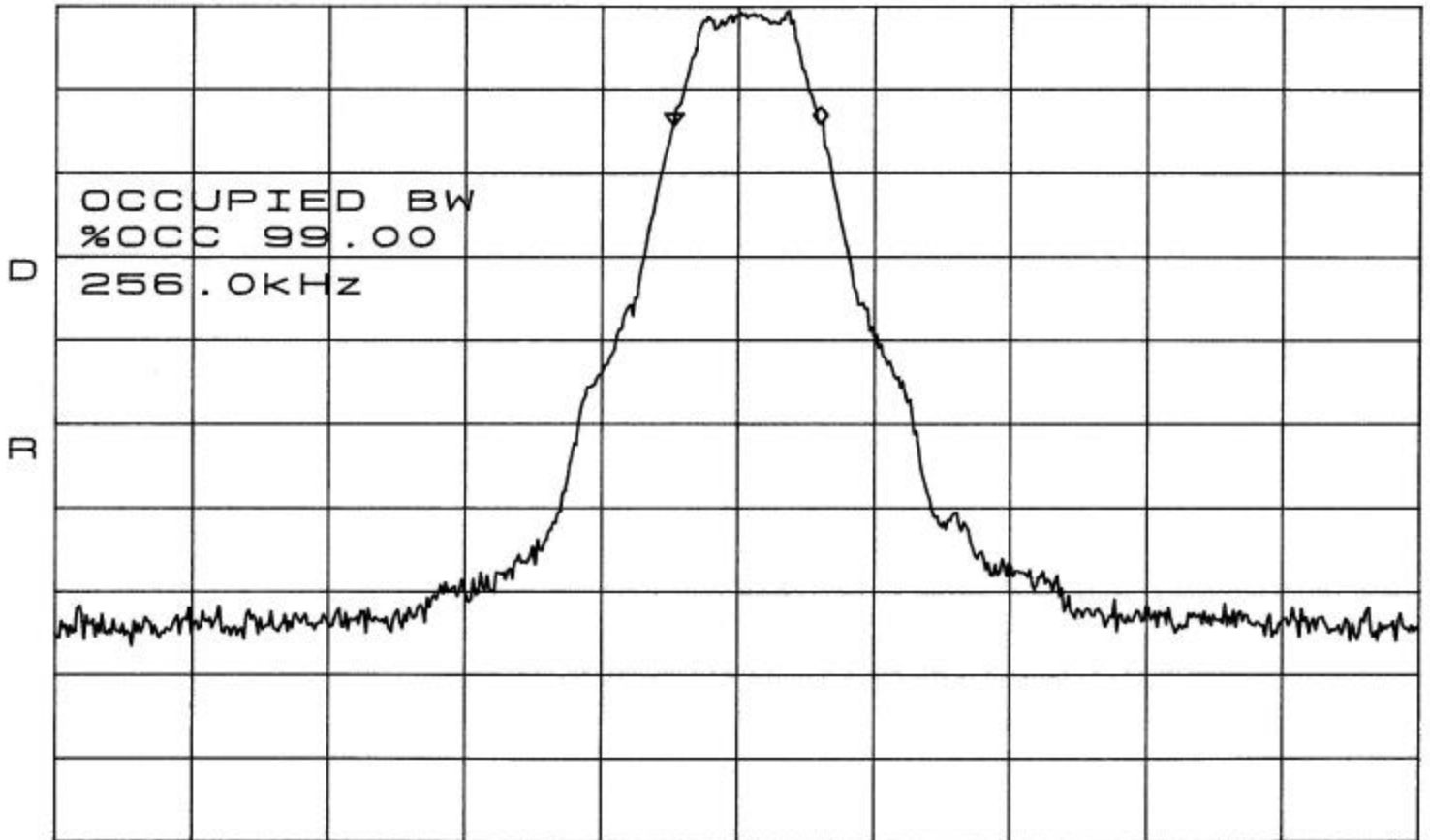
ATTEN 20dB

RL 45.4dBm

ΔMKR .17dB

10dB/

256kHz



CENTER 1.975400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

19 MAY 2000

FCC ID: AS5FLX-01
Block C Channel 809

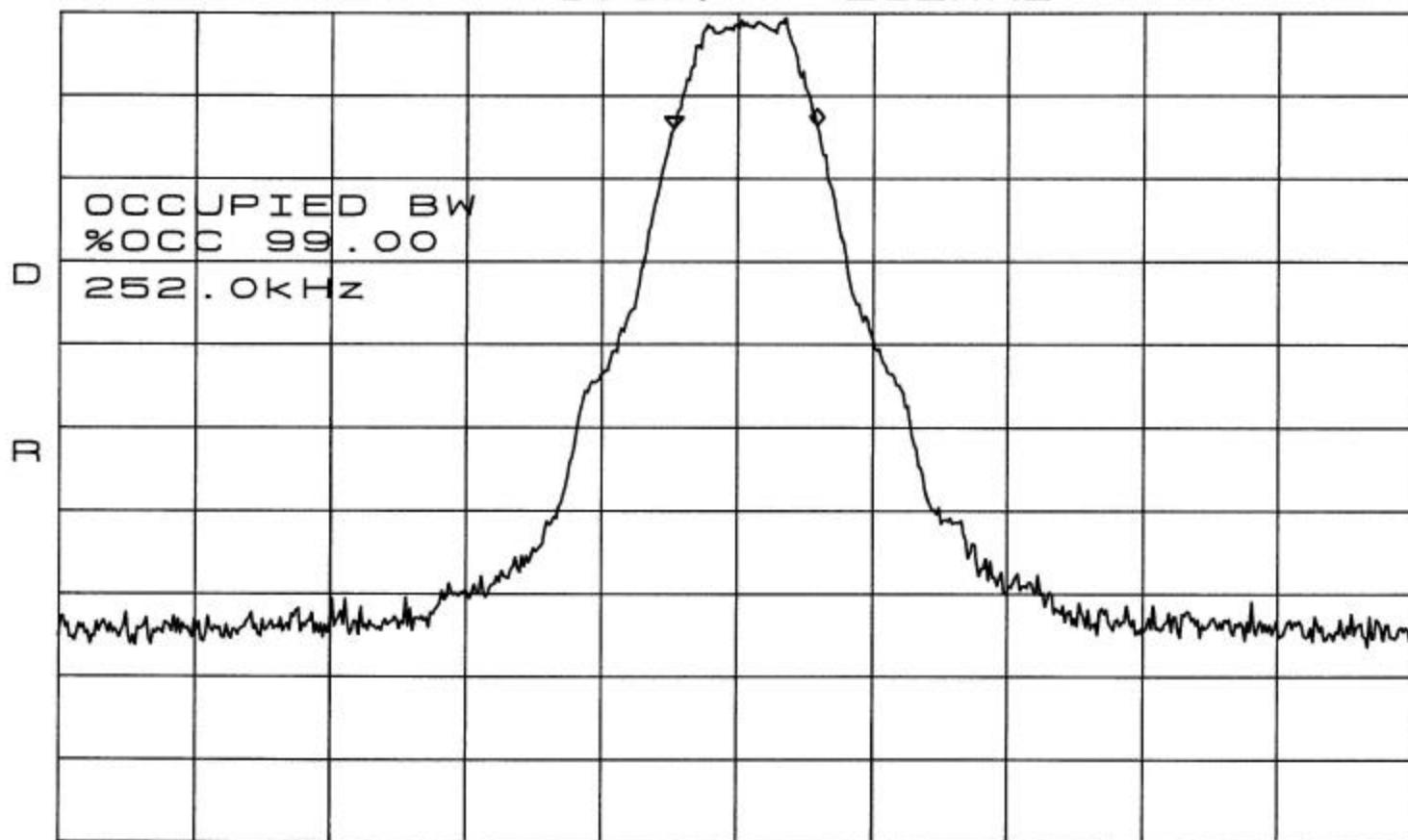
ATTEN 20dB

ΔMKR .33dB

RL 45.4dBm

10dB/

252kHz



CENTER 1.989600GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK D

(1945 – 1950 MHz)

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

19 MAY 2000

FCC ID: AS5FLX-01
Block D Channel 588

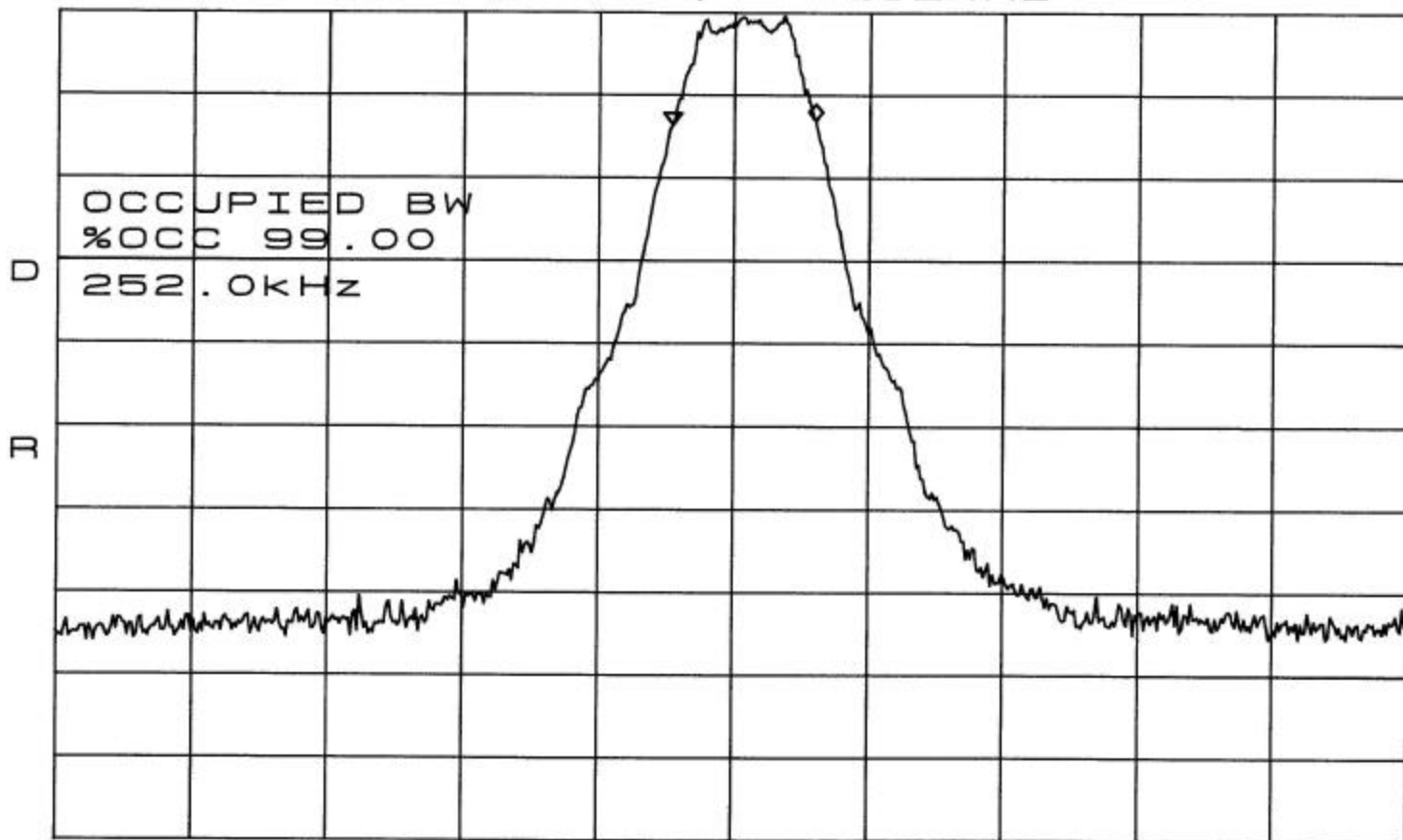
ATTEN 20dB

Δ MKR .50dB

RL 45.4dBm

10dB/

252kHz



CENTER 1.945400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

19 MAY 2000

FCC ID: AS5FLX-01
Block D Channel 609

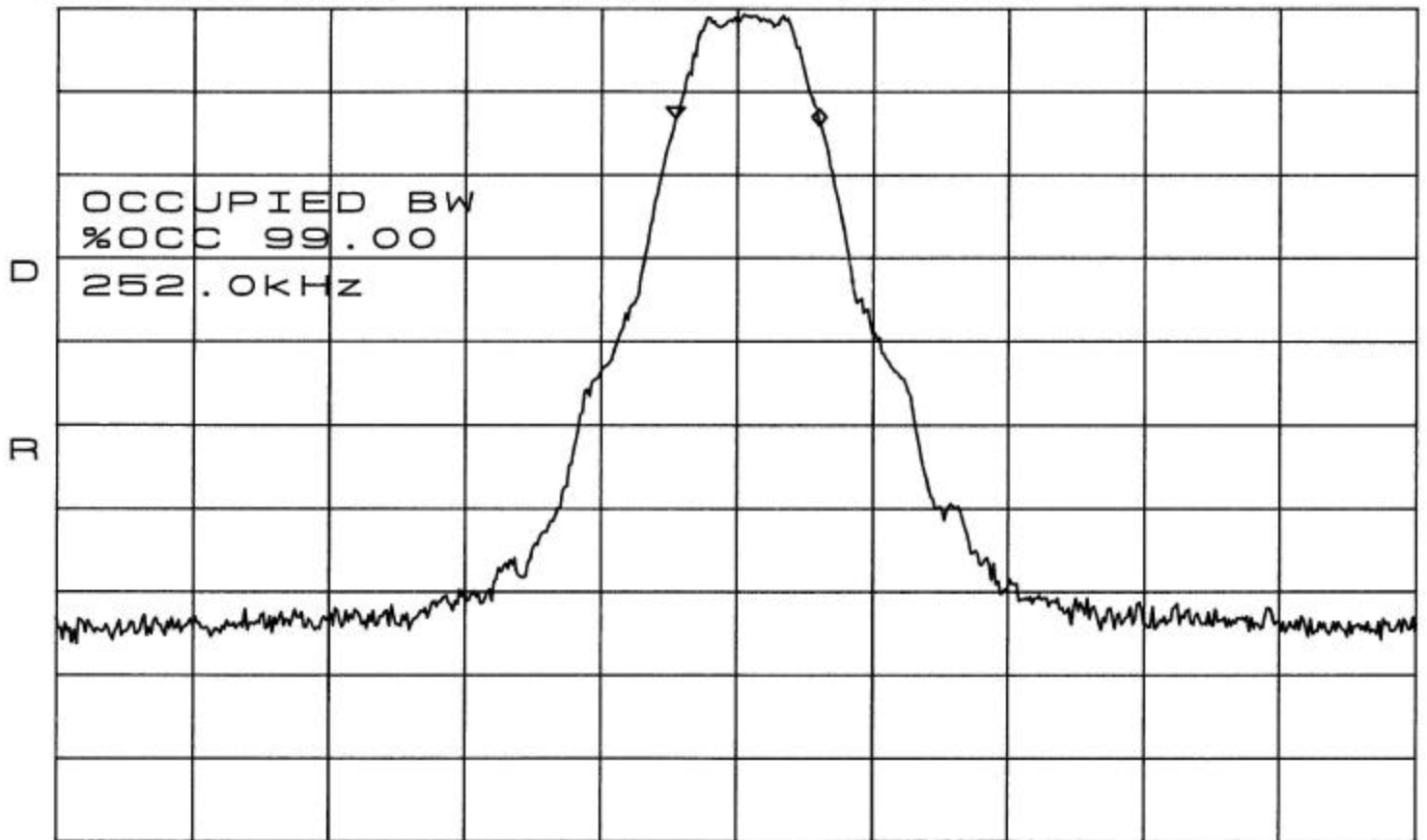
ATTEN 20dB

RL 45.4dBm

ΔMKR - .83dB

10dB/

252kHz



CENTER 1.949600GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK E

(1965 – 1970 MHz)

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

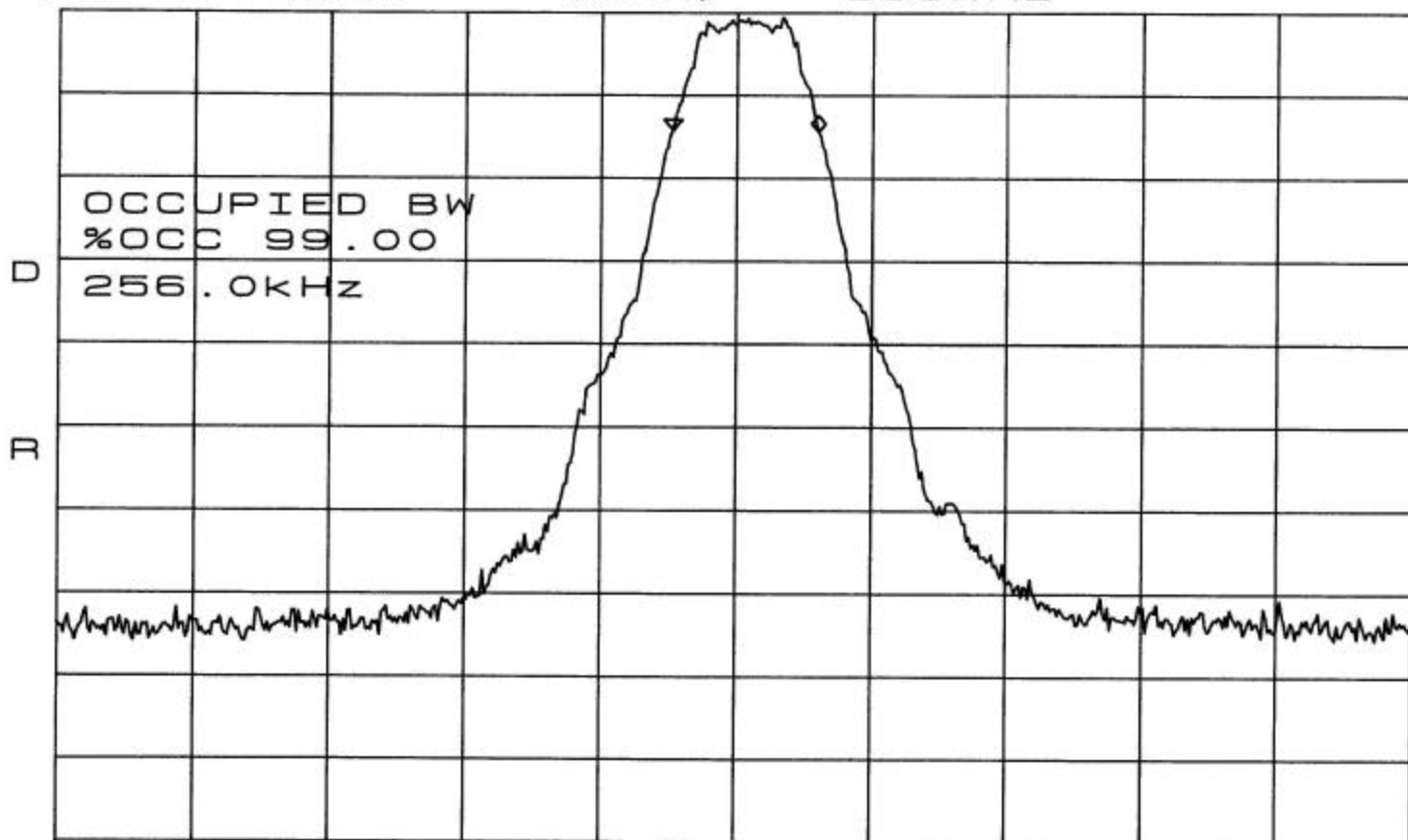
19 MAY 2000

FCC ID: AS5FLX-01
Block E Channel 688

ATTEN 20dB
RL 45.4dBm

ΔMKR -.16dB
256kHz

10dB/



CENTER 1.965400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

19 MAY 2000

FCC ID: AS5FLX-01
Block E Channel 709

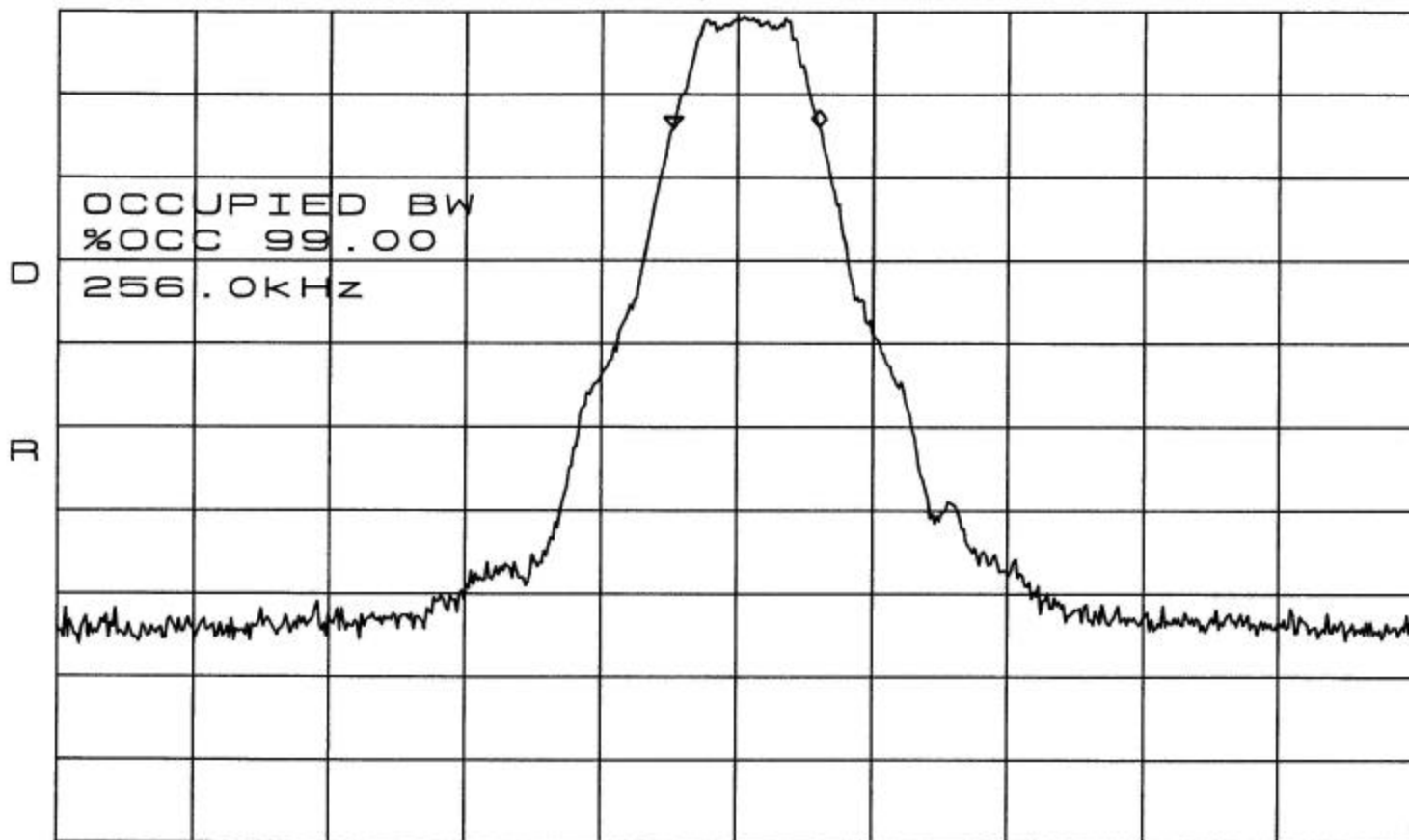
ATTEN 20dB

Δ MKR .17dB

RL 45.4dBm

10dB/

256kHz



CENTER 1.969600GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

1 TRX WITHOUT COMBINER

BLOCK F

(1970 – 1975 MHz)

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

19 MAY 2000

FCC ID: AS5FLX-01
Block F Channel 713

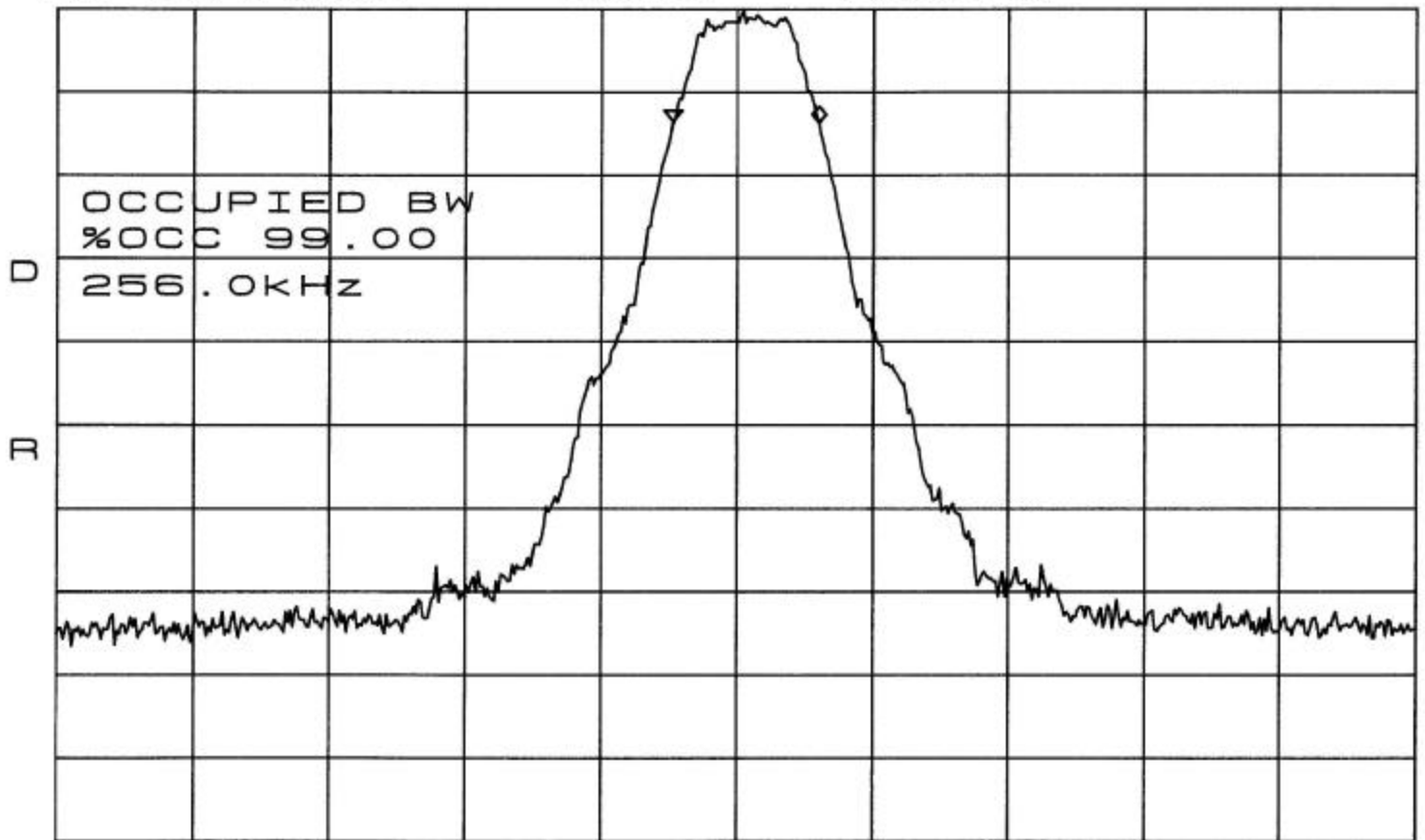
ATTEN 20dB

RL 45.4dBm

ΔMKR - .17dB

10dB/

256kHz



CENTER 1.970400GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

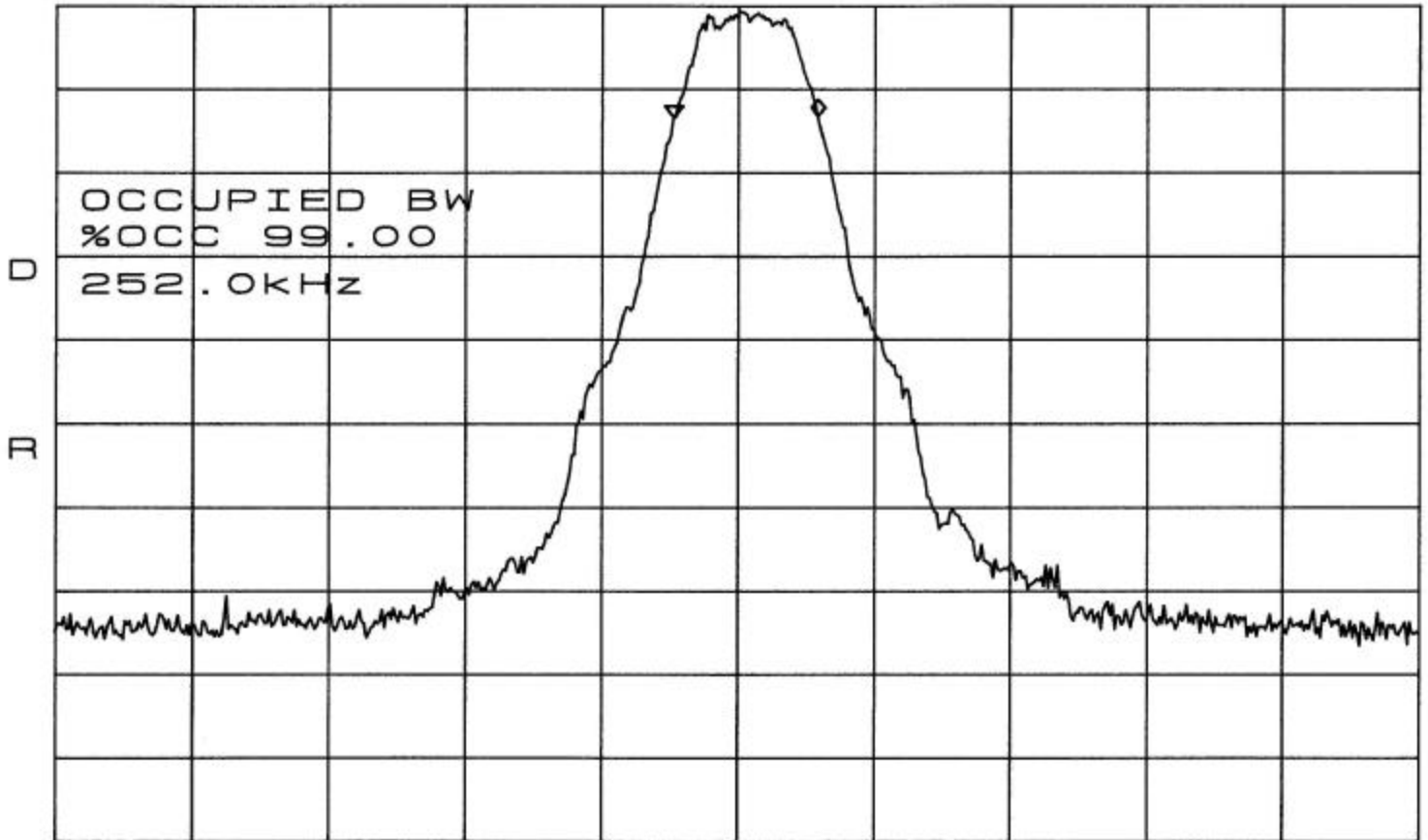
19 MAY 2000

FCC ID: AS5FLX-01
Block F Channel 734

ATTEN 20dB
RL 45.4dBm

ΔMKR .16dB
252kHz

10dB/



CENTER 1.974600GHz
RBW 30kHz VBW 30kHz

SPAN 2.400MHz
SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK A

(1930 – 1945 MHz)

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

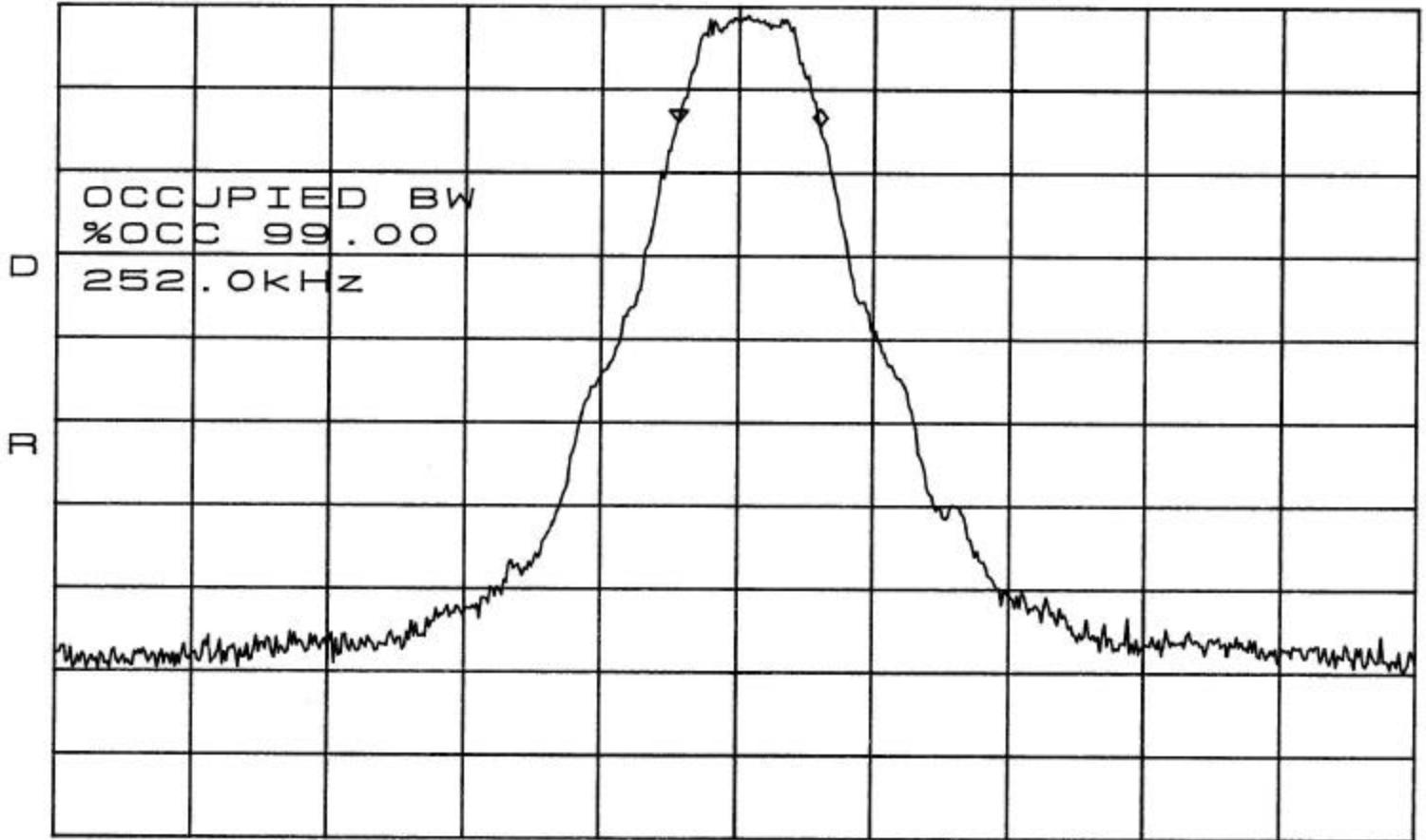
04 MAY 2000

FCC ID: AS5FLX-01
Block A Channel 513

ATTEN 10dB
RL 42.0dBm

10dB/
252kHz

ΔMKR -.50dB



CENTER 1.930400GHz
RBW 30kHz VBW 30kHz

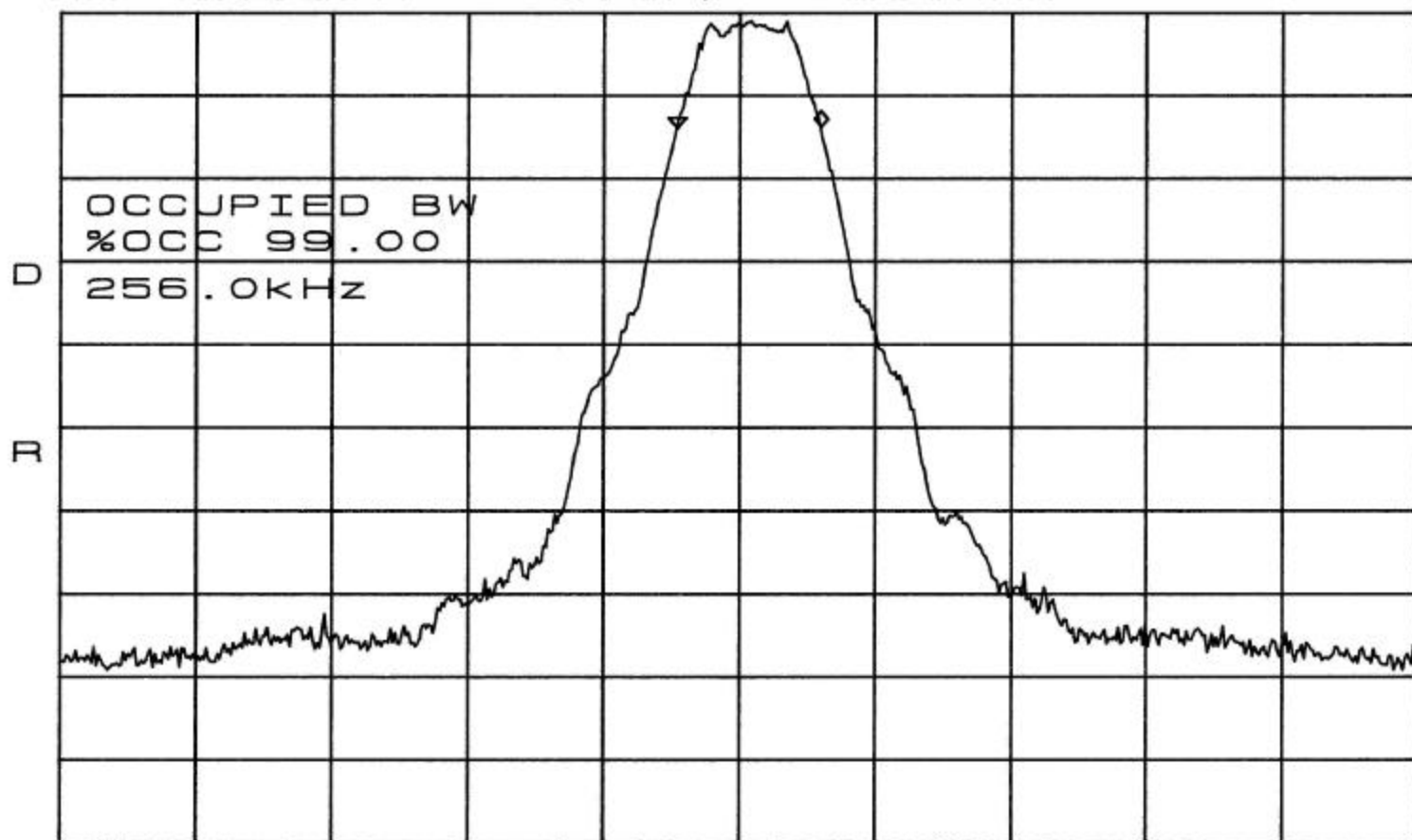
SPAN 2.400MHz
SWP 50.0ms

04 MAY 2000

FCC ID: AS5FLX-01
Block A Channel 584

ATTEN 10dB
RL 42.0dBm

Δ MKR .17dB
10dB/
256kHz



CENTER 1.944600GHz
RBW 30kHz VBW 30kHz

SPAN 2.400MHz
SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK B

(1950 – 1965 MHz)

Left Edge: 1950.4 MHz (Channel 613)

Right Edge: 1964.6 MHz (Channel 684)

04 MAY 2000

FCC ID: AS5FLX-01
Block B Channel 613

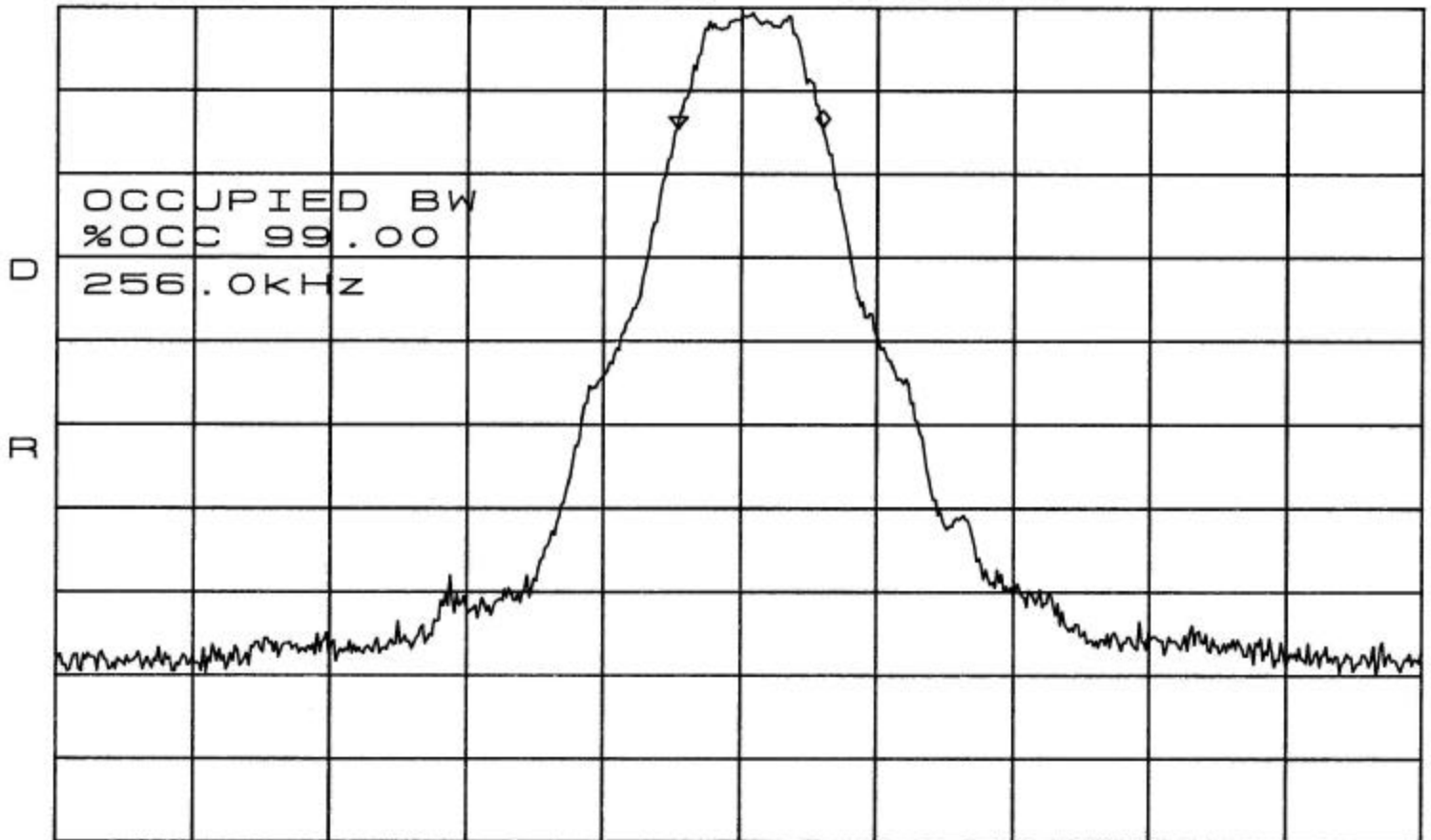
ATTEN 10dB

RL 42.0dBm

ΔMKR .17dB

10dB/

256kHz



CENTER 1.950400GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

04 MAY 2000

FCC ID: AS5FLX-01
Block B Channel 684

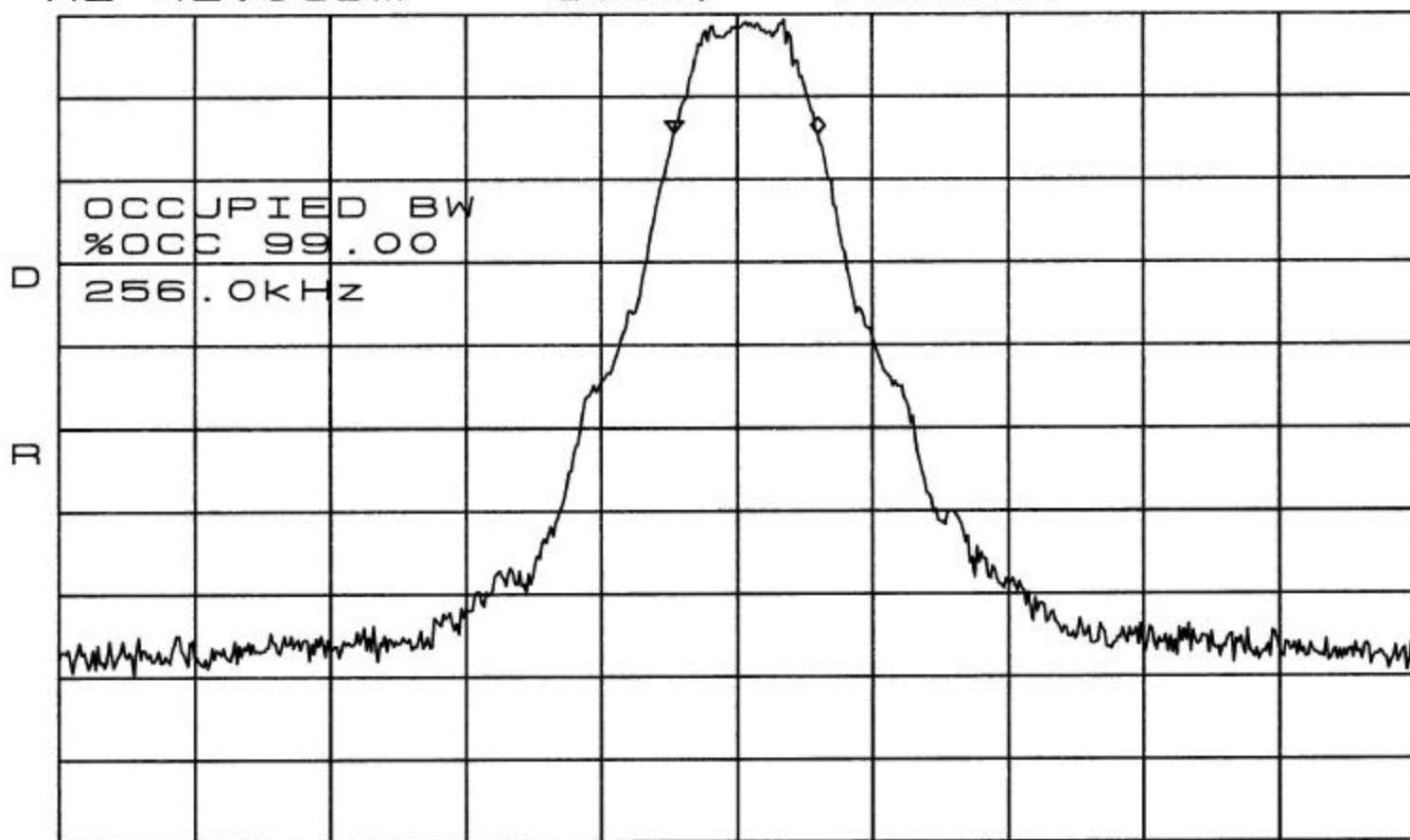
ATTEN 10dB

RL 42.0dBm

ΔMKR -.17dB

10dB/

256kHz



CENTER 1.964600GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK C

(1975 – 1990 MHz)

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

04 MAY 2000

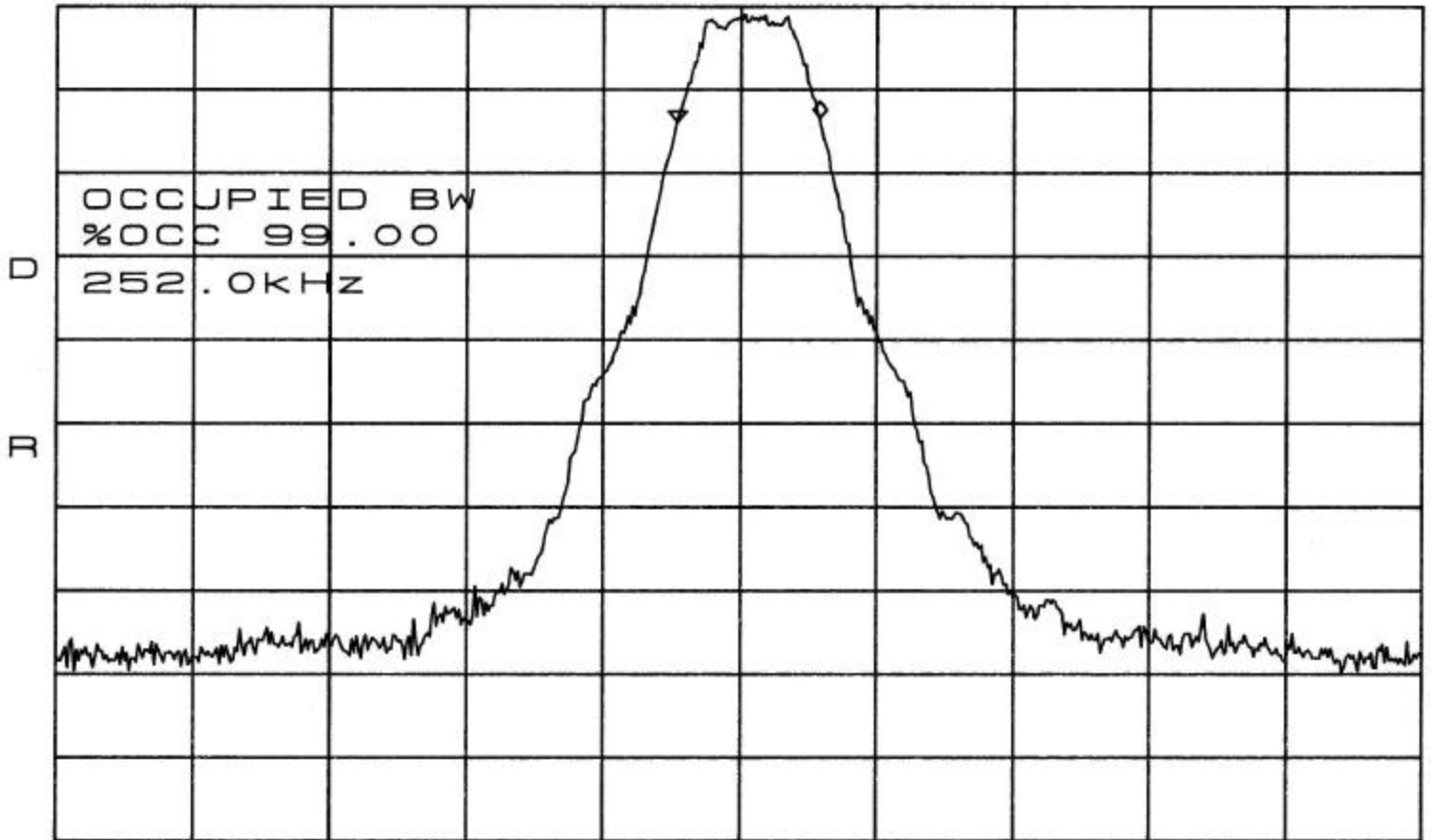
FCC ID: AS5FLX-01
Block C Channel 738

ATTEN 10dB

RL 42.0dBm

Δ MKR .50dB

10dB/ 252kHz



CENTER 1.975400GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

04 MAY 2000

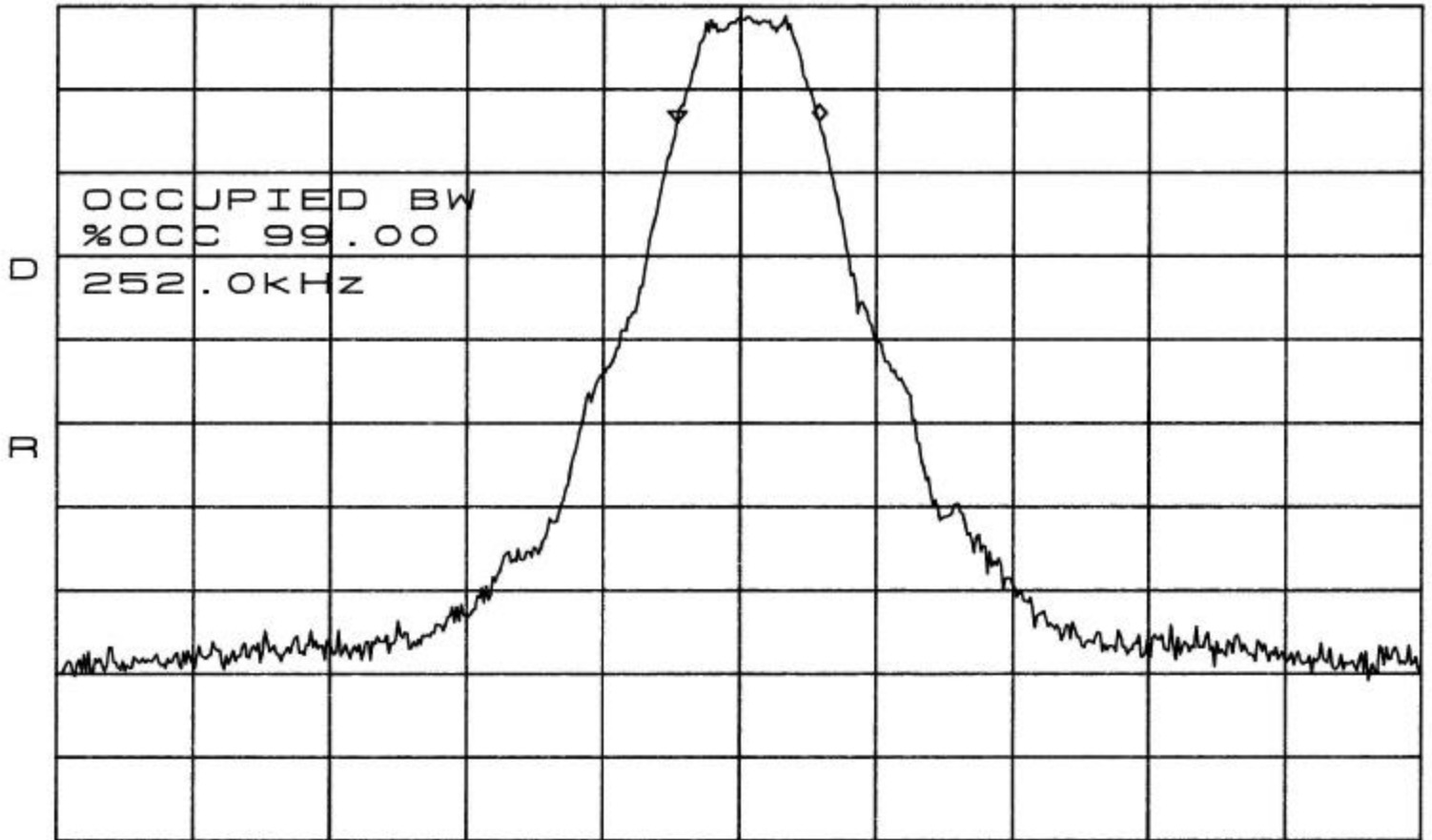
FCC ID: AS5FLX-01
Block C Channel 809

ATTEN 10dB

RL 42.0dBm

ΔMKR .17dB

10dB/ 252kHz



CENTER 1.989600GHz

SPAN 2.400MHz

RBW 30kHz

VBW 30kHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK D

(1945 – 1950 MHz)

Left Edge: 1945.4 MHz (Channel 588)

Right Edge: 1949.6 MHz (Channel 609)

04 MAY 2000

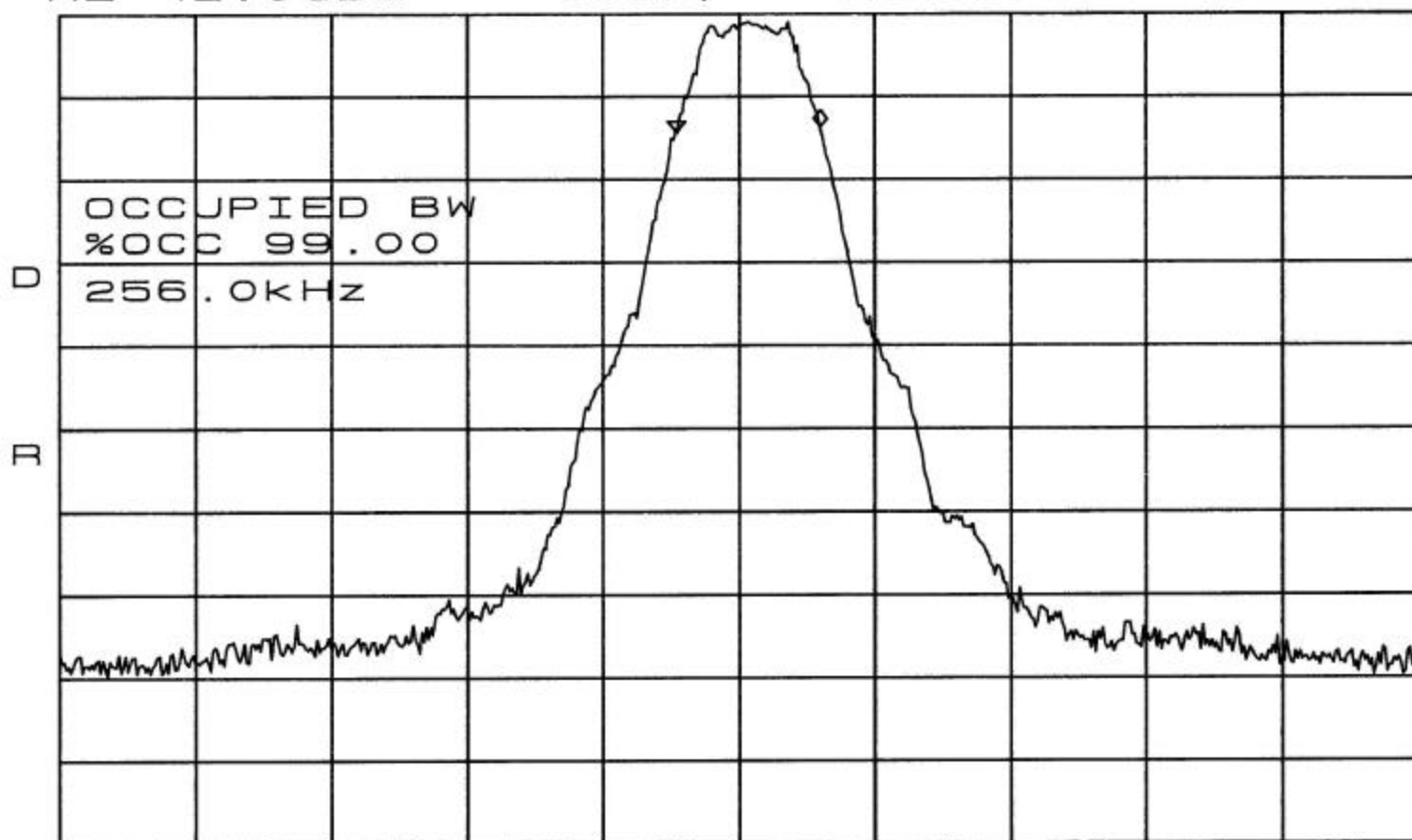
FCC ID: AS5FLX-01
Block D Channel 588

ATTEN 10dB

RL 42.0dBm

Δ MKR .66dB

10dB/
256kHz



CENTER 1.945400GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

04 MAY 2000

FCC ID: AS5FLX-01
Block D Channel 609

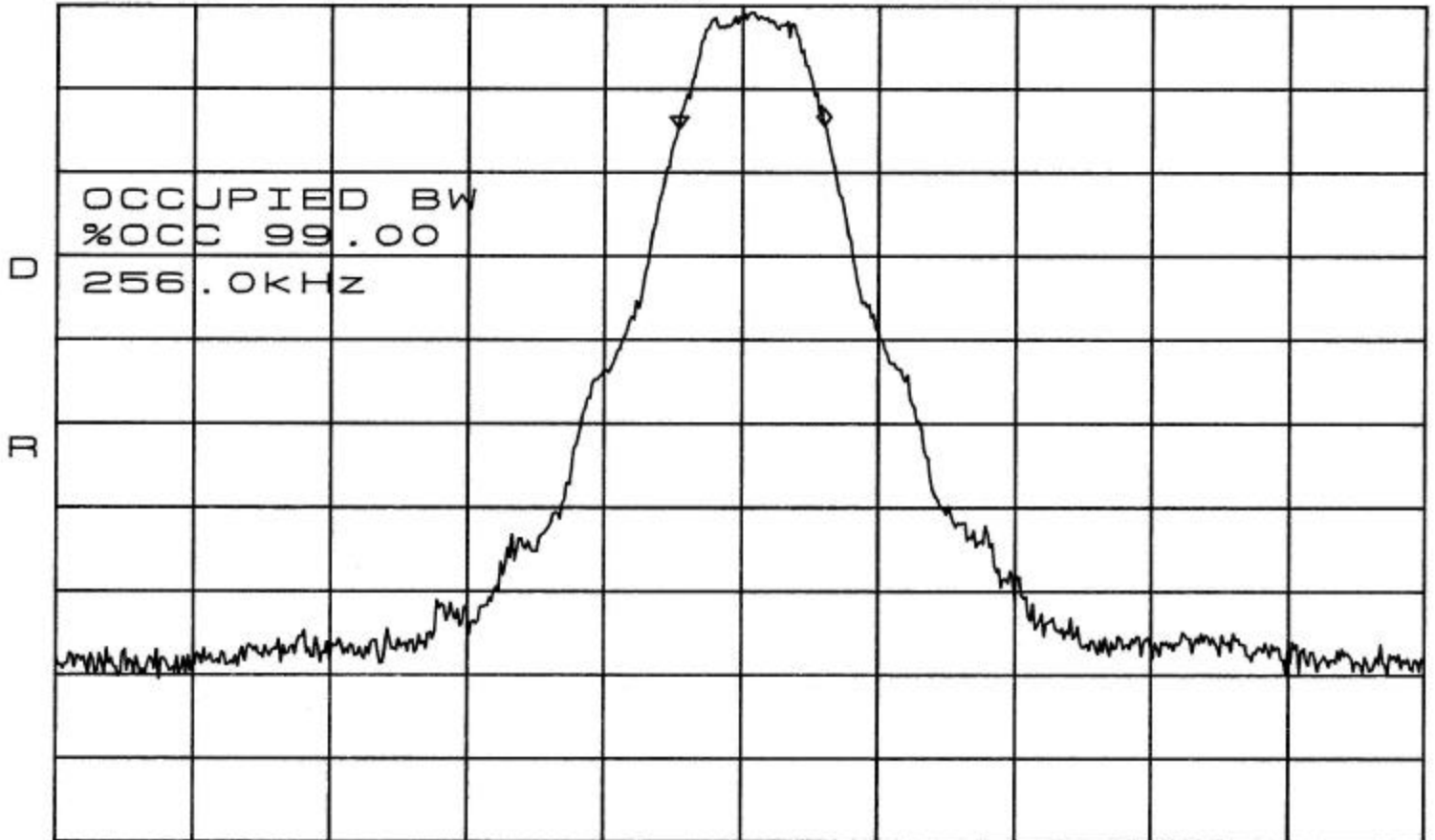
ATTEN 10dB

RL 42.0dBm

10dB/

Δ MKR .34dB

256kHz



CENTER 1.949600GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK E

(1965 – 1970 MHz)

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

04 MAY 2000

FCC ID: AS5FLX-01
Block E Channel 688

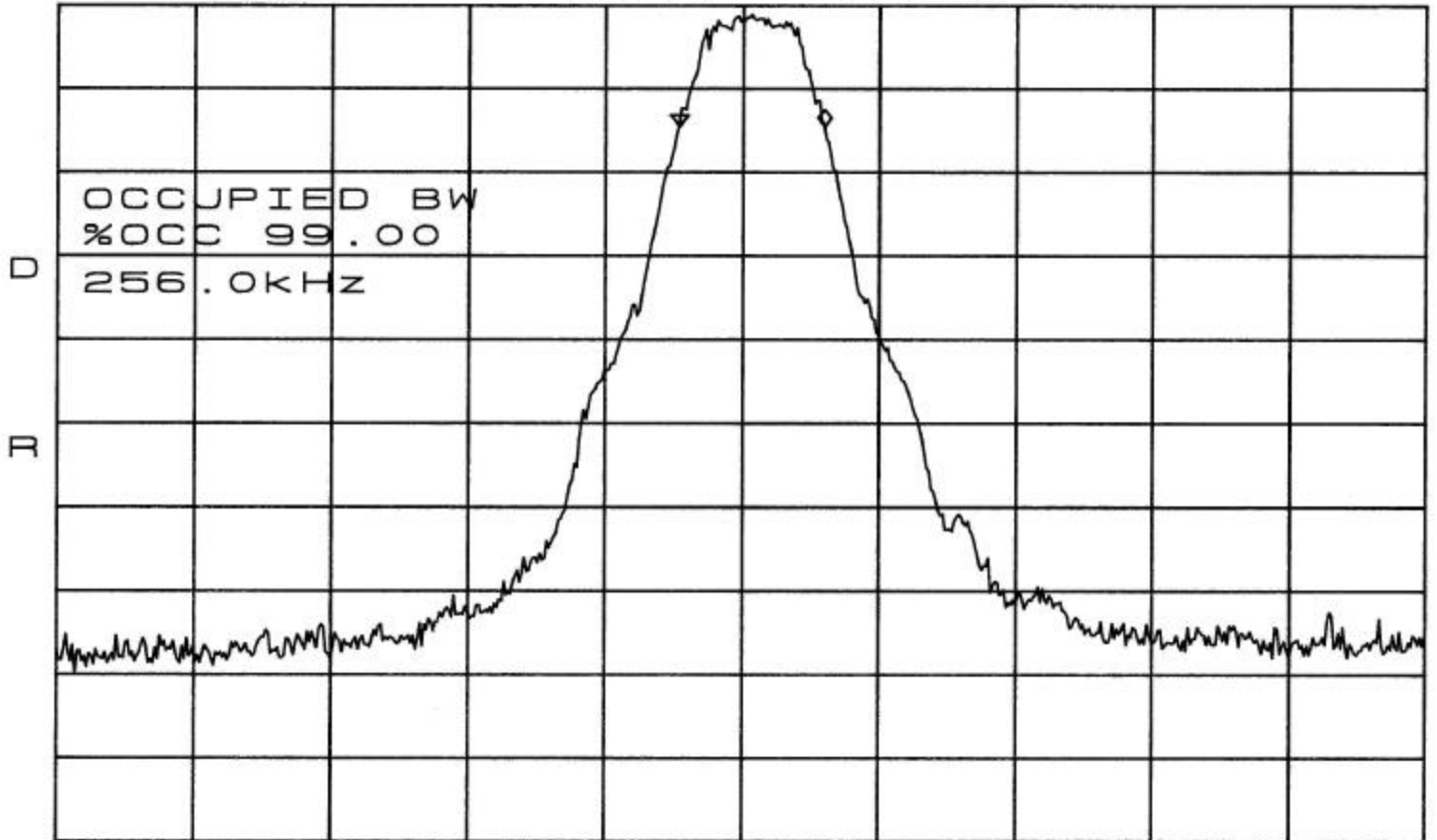
ATTEN 10dB

RL 42.0dBm

Δ MKR 0dB

10dB/

256kHz



CENTER 1.965400GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

04 MAY 2000

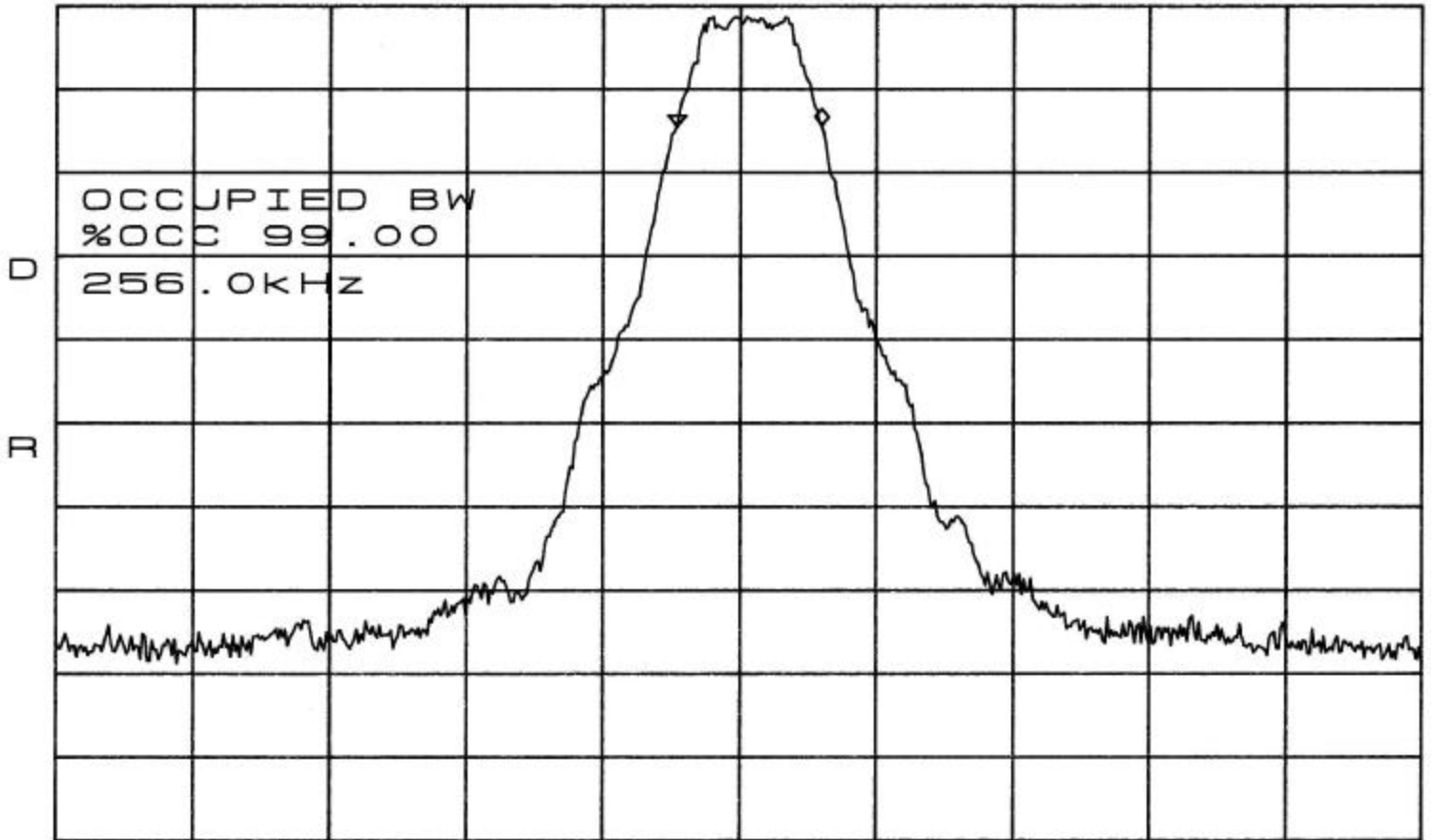
FCC ID: AS5FLX-01
Block E Channel 709

ATTEN 10dB

RL 42.0dBm

ΔMKR .17dB

10dB/ 256kHz



CENTER 1.969600GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

SWP 50.0ms

MEASUREMENT: 3A

MEASUREMENT

OF

OCCUPIED BANDWIDTH

99% OF POWER

2 TRX WITH COMBINER

BLOCK F

(1970 – 1975 MHz)

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

04 MAY 2000

FCC ID: AS5FLX-01
Block F Channel 713

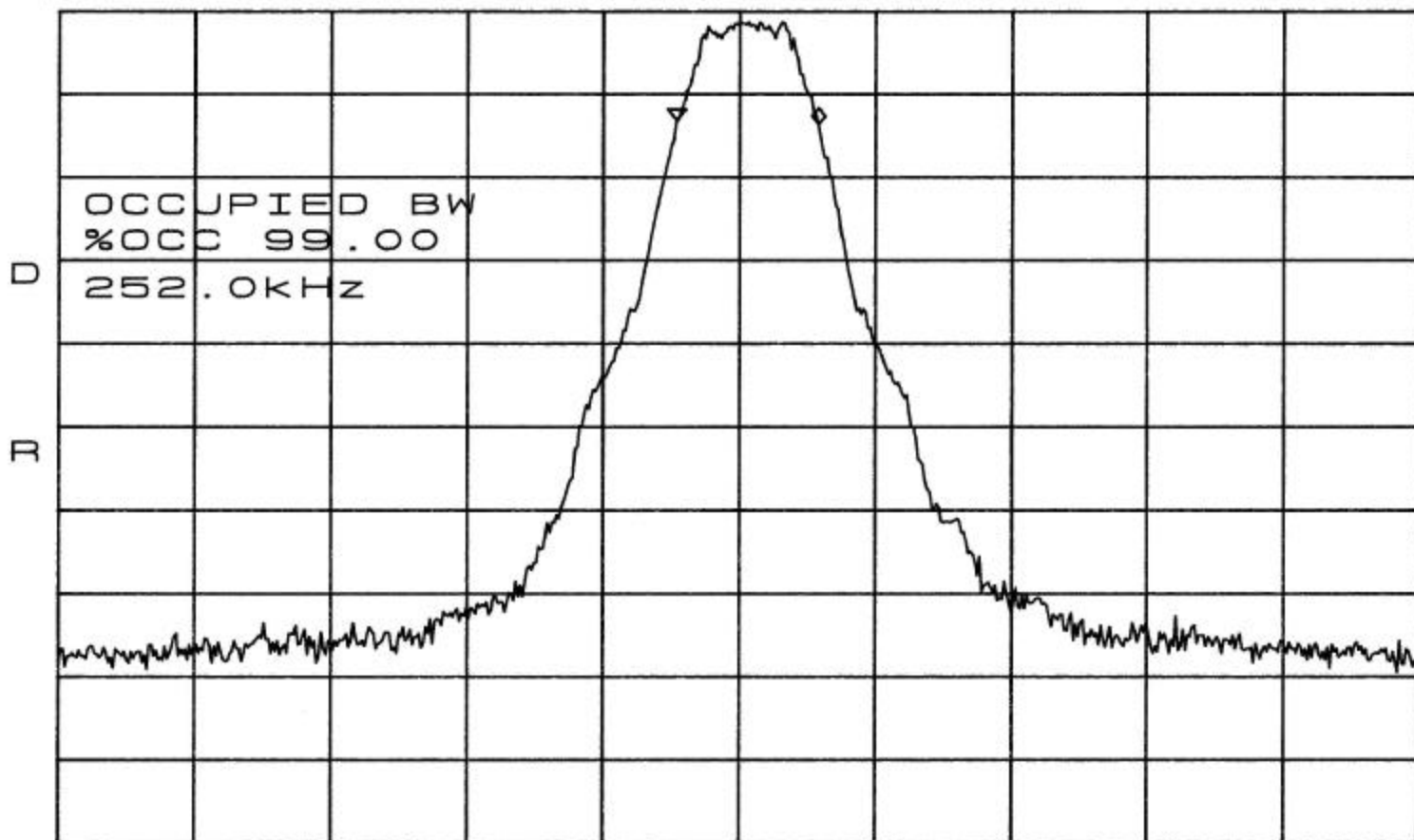
ATTEN 10dB

RL 42.0dBm

Δ MKR -.50dB

10dB/

252kHz



CENTER 1.970400GHz

RBW 30kHz

VBW 30kHz

SPAN 2.400MHz

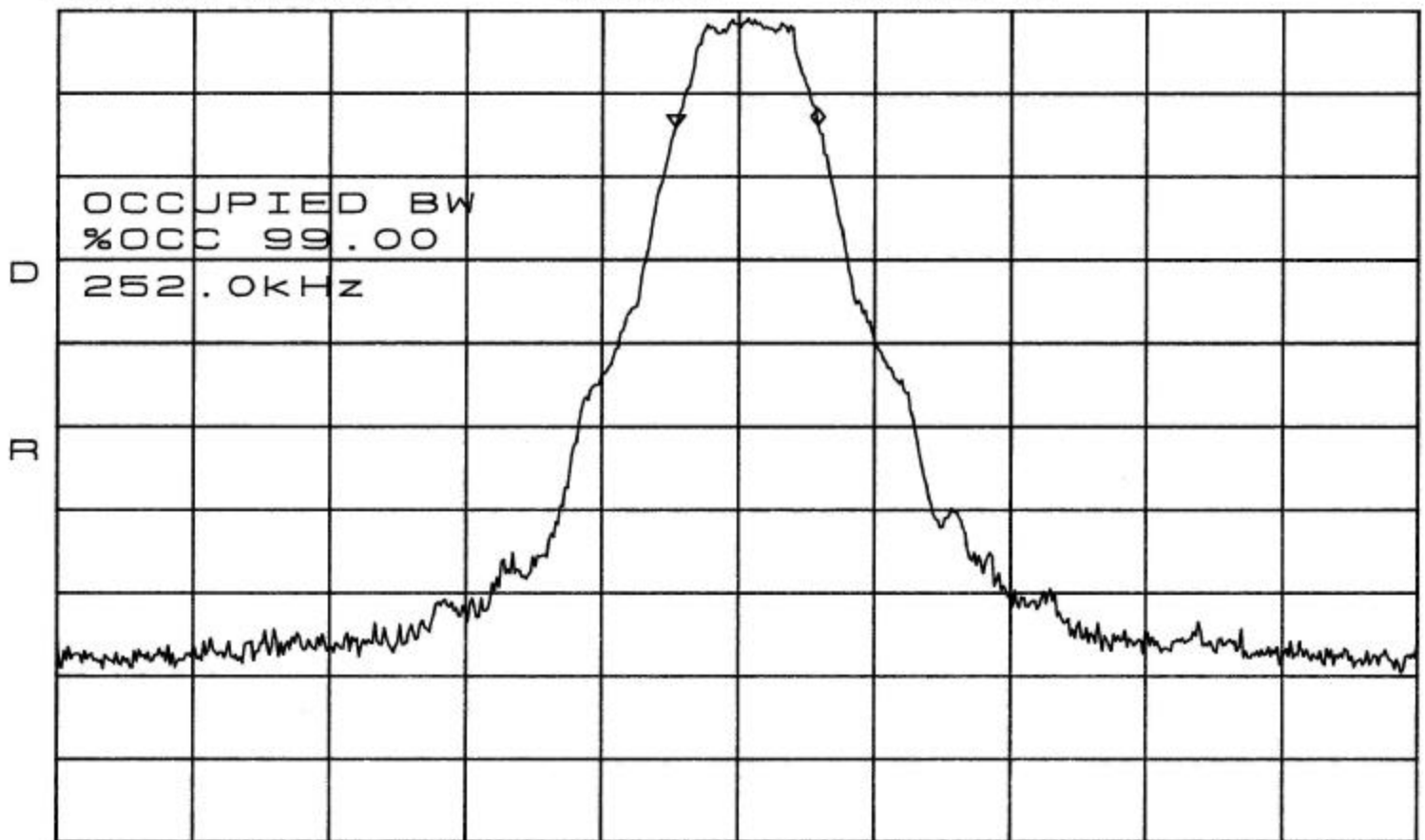
SWP 50.0ms

04 MAY 2000

FCC ID: AS5FLX-01
Block F Channel 734

ATTEN 10dB
RL 42.0dBm

ΔMKR .17dB
10dB/ 252kHz



CENTER 1.974600GHz
RBW 30kHz VBW 30kHz

SPAN 2.400MHz
SWP 50.0ms