

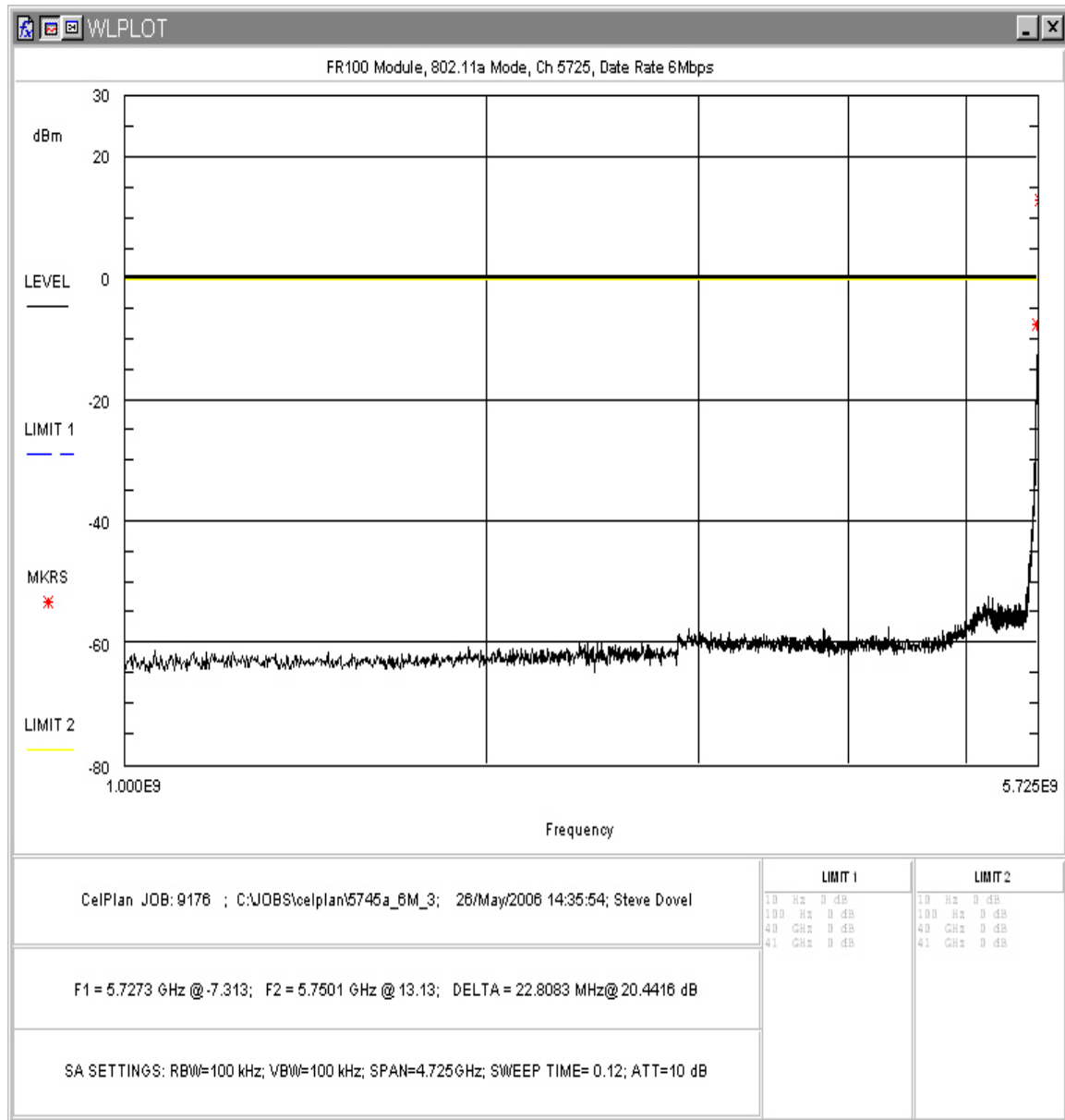


Figure 14. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5745 MHz @ 6 Mbps

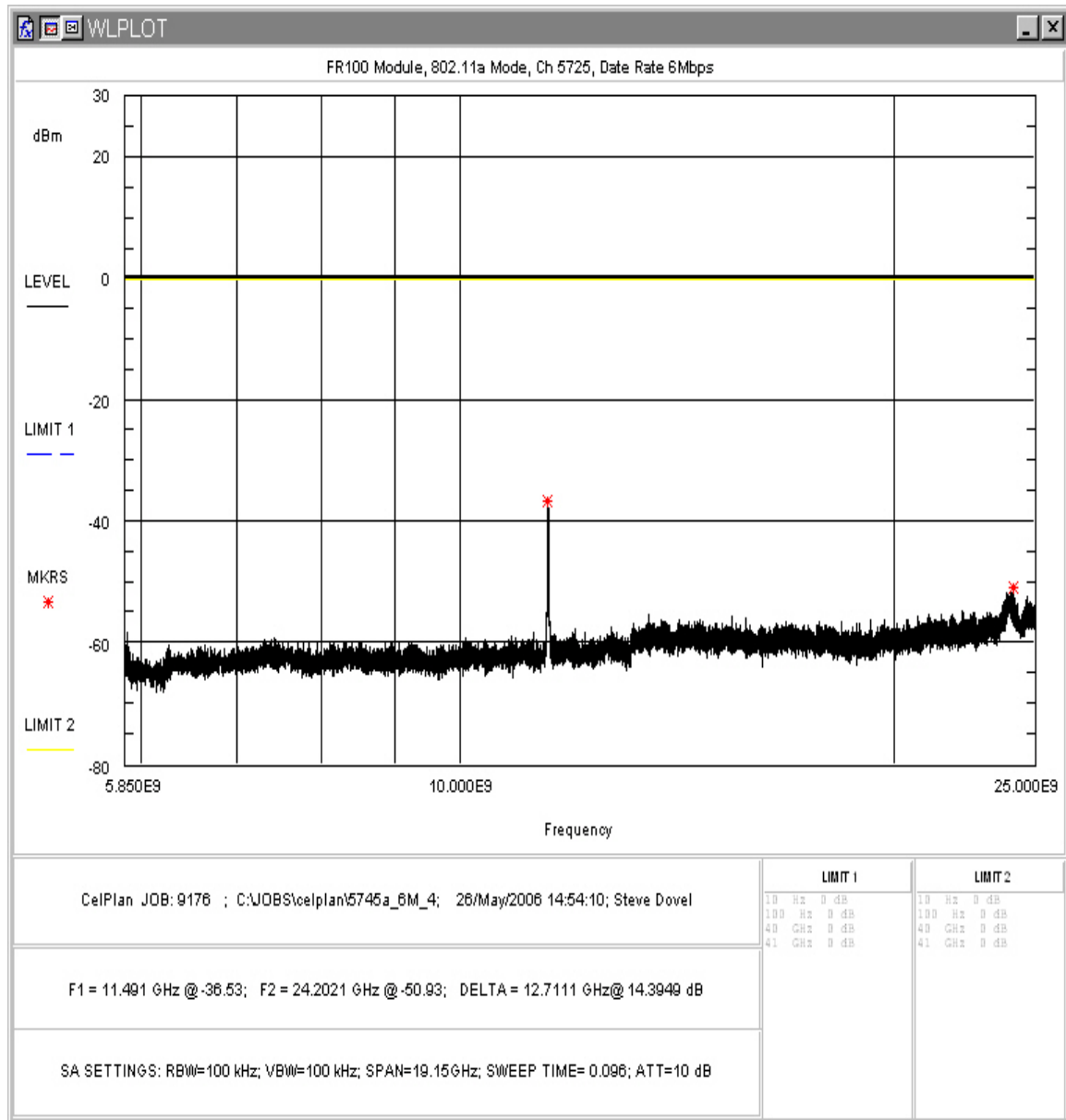


Figure 15. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5745 MHz @ 6 Mbps

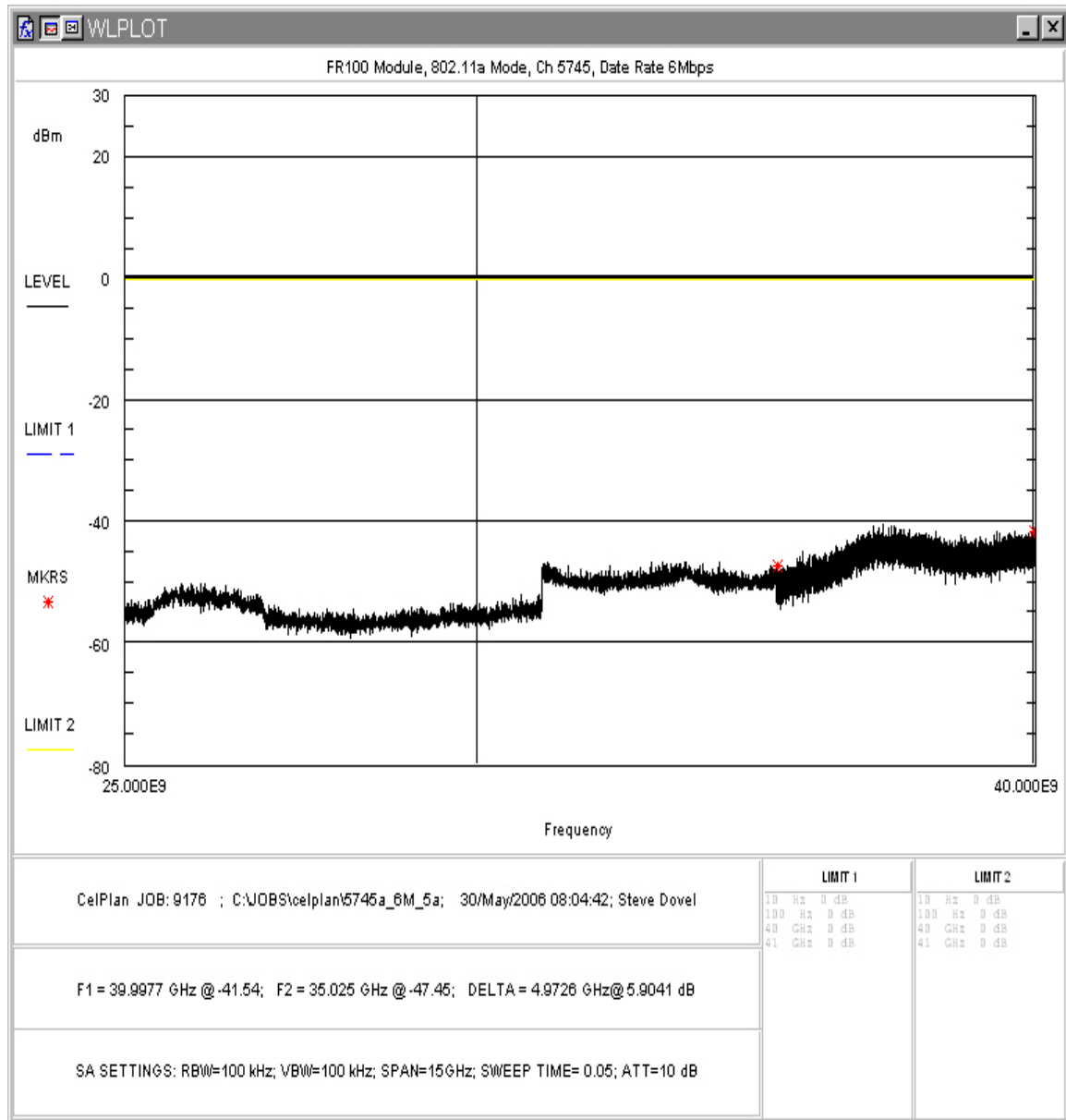


Figure 16. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5745 MHz @ 6 Mbps

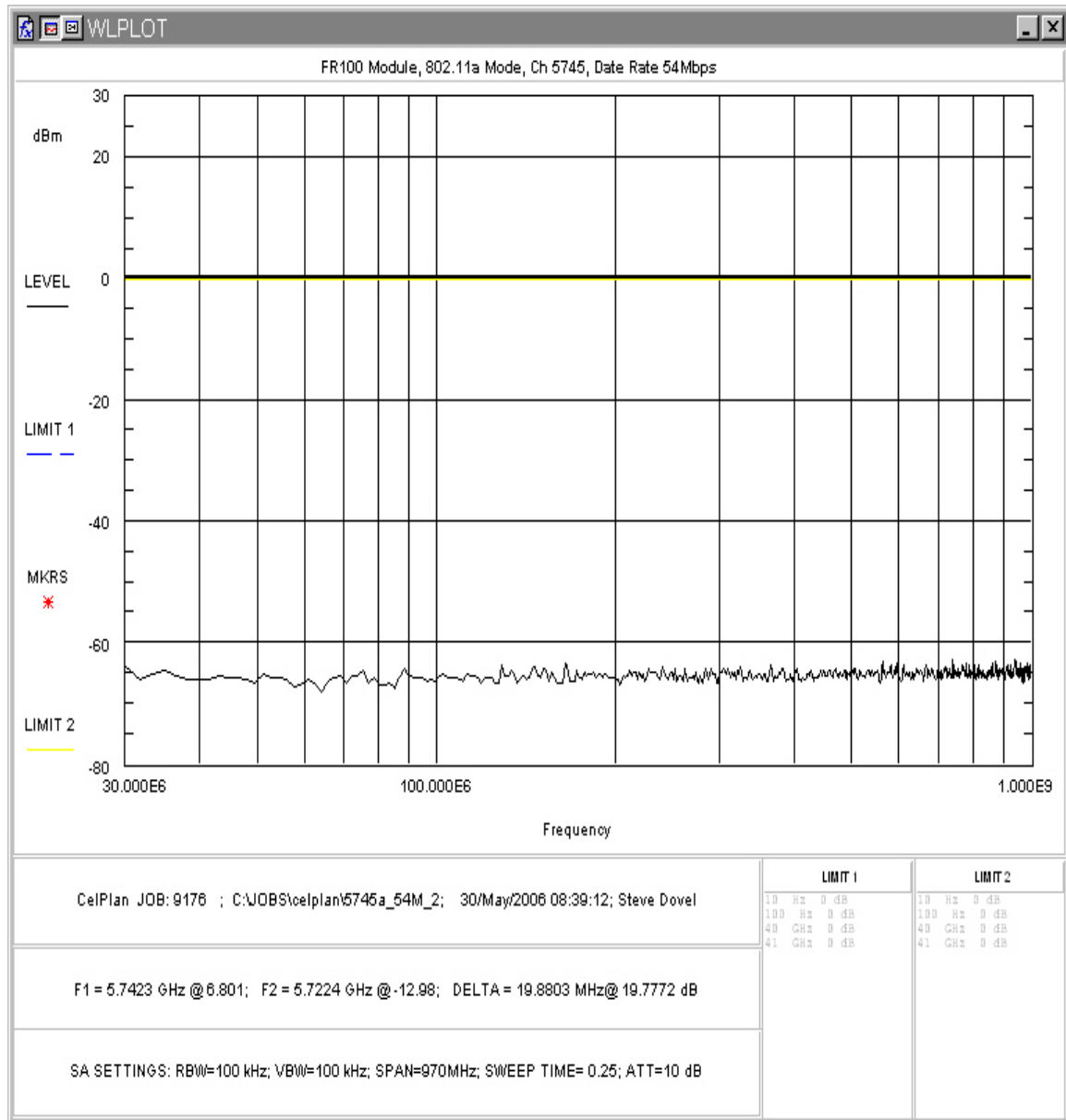


Figure 17. Conducted Spurious Emissions, 30 MHz– 1 GHz. 5745 MHz @ 54 Mbps

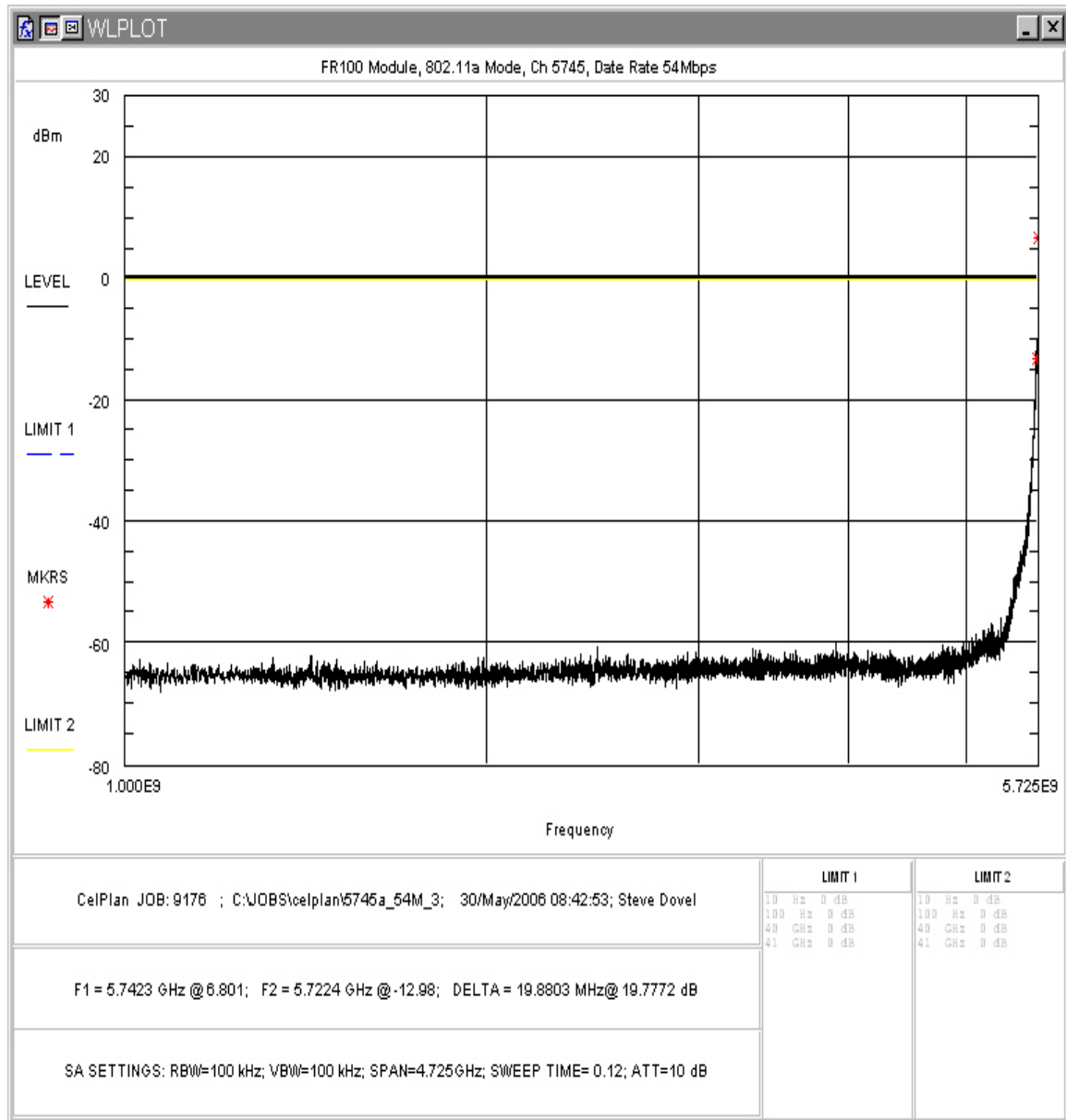


Figure 18. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5745 MHz @ 54 Mbps

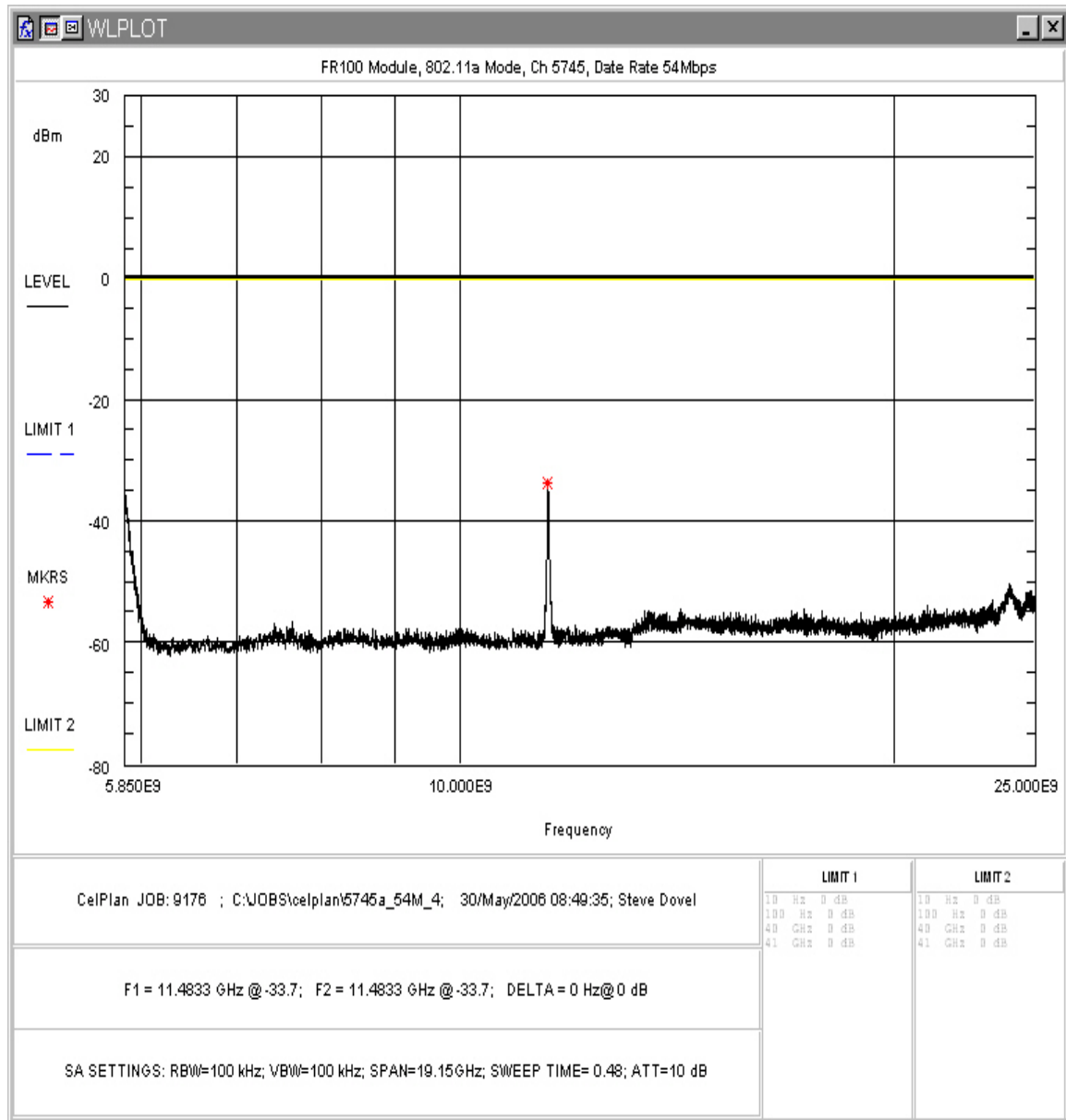


Figure 19. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5745 MHz @ 54 Mbps

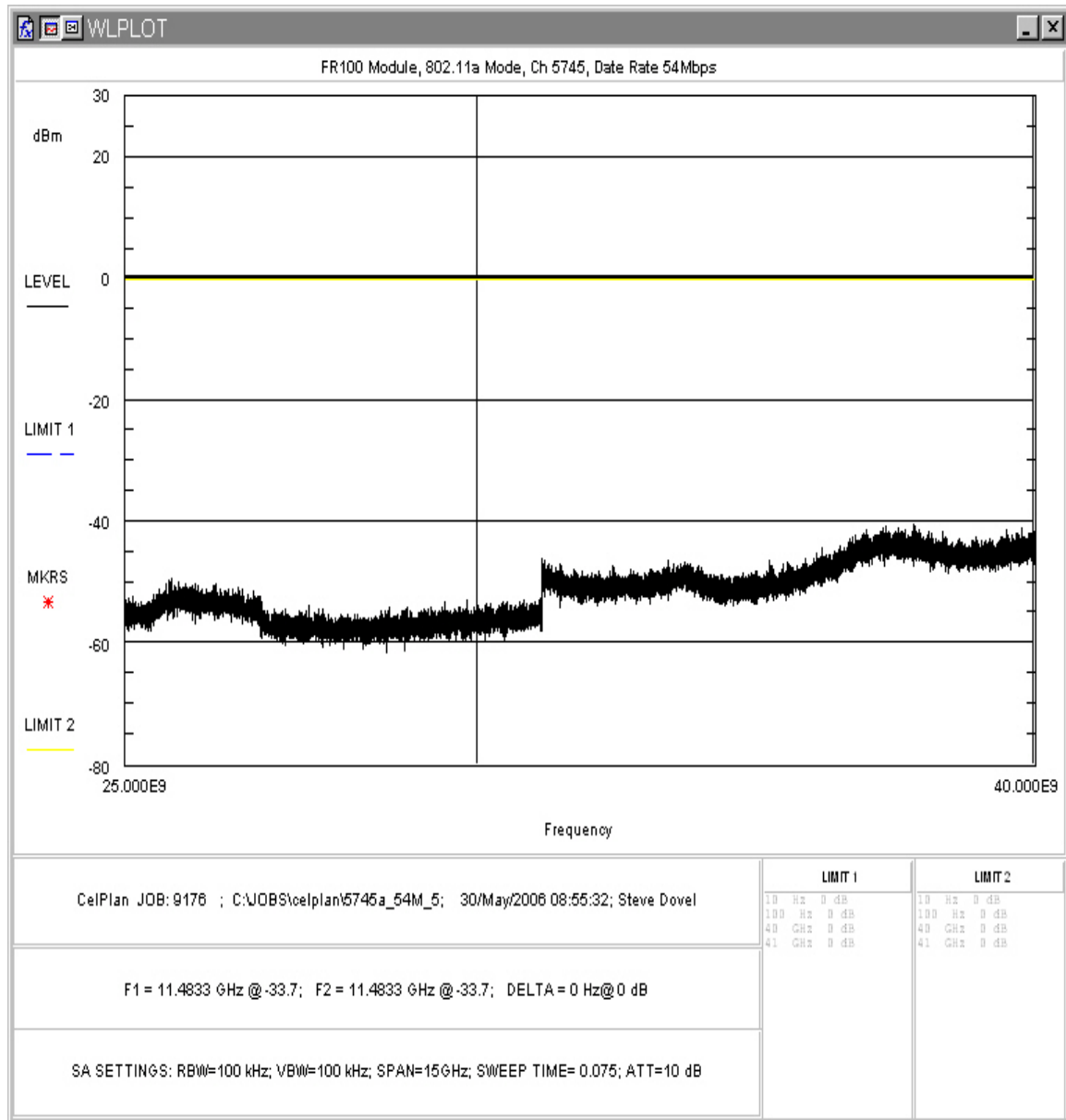


Figure 20. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5745 MHz @ 54 Mbps

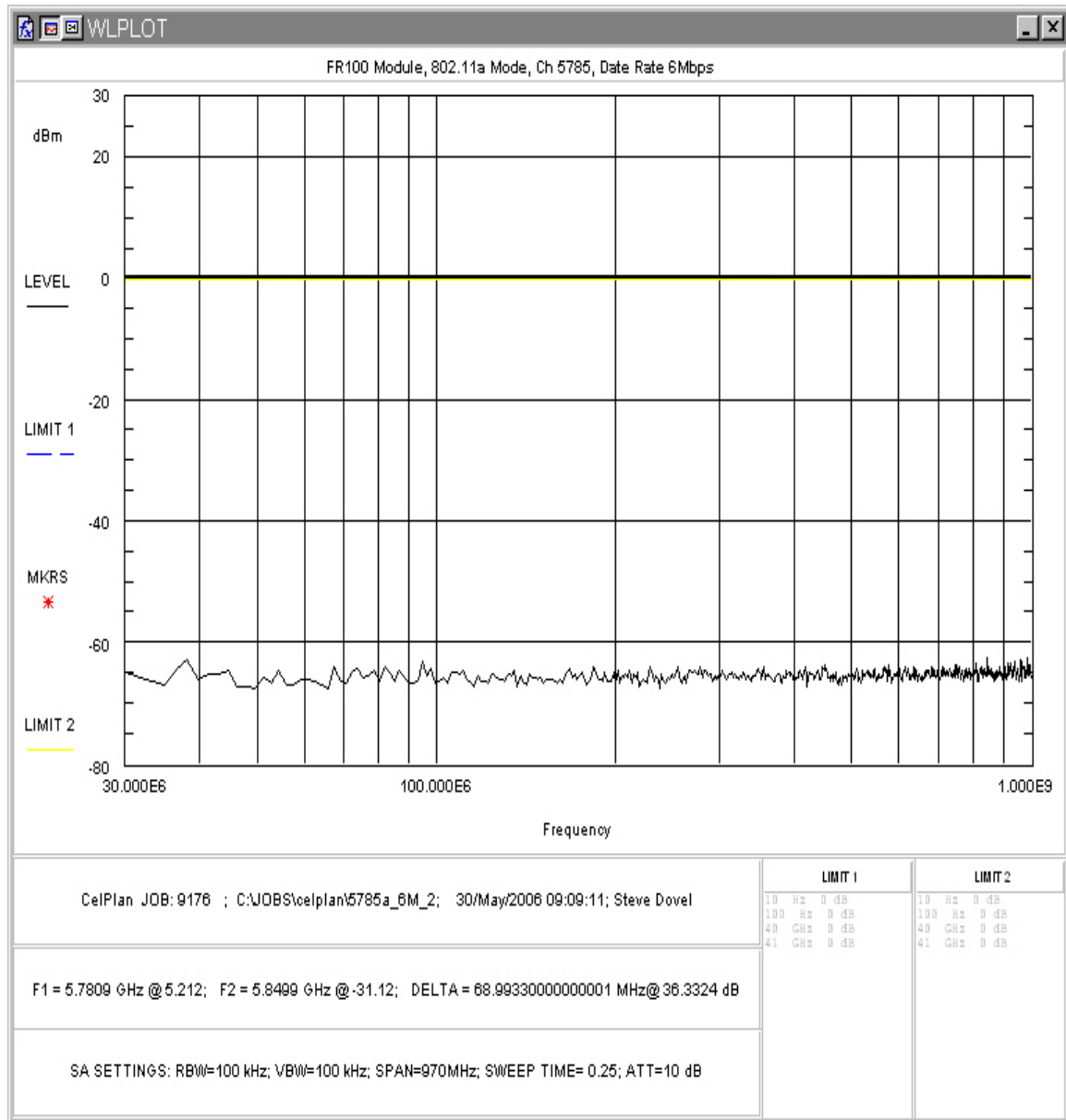


Figure 21. Conducted Spurious Emissions, 30 MHz– 1 GHz. 5785 MHz @ 6 Mbps

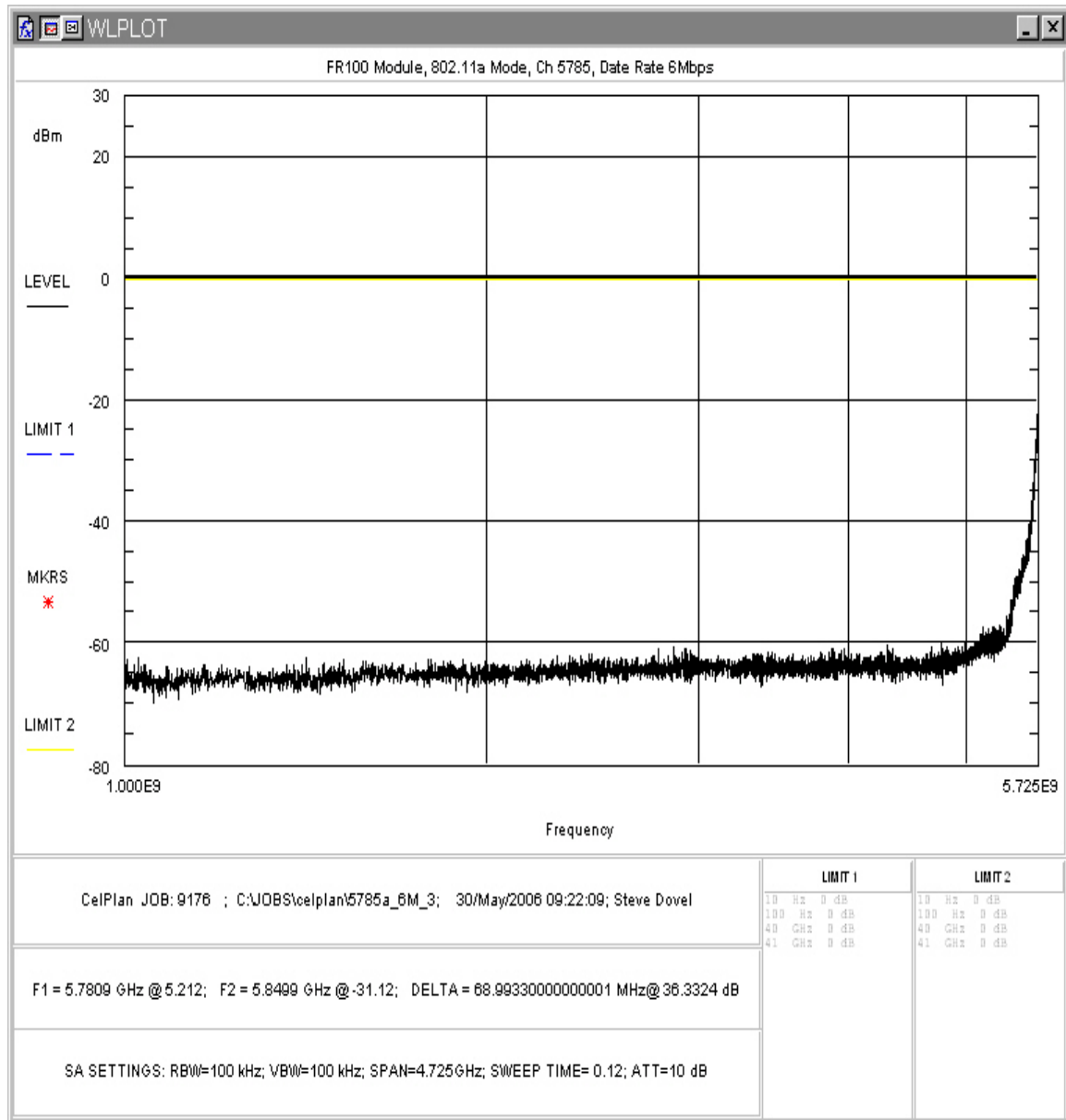


Figure 22. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5785 MHz @ 6 Mbps

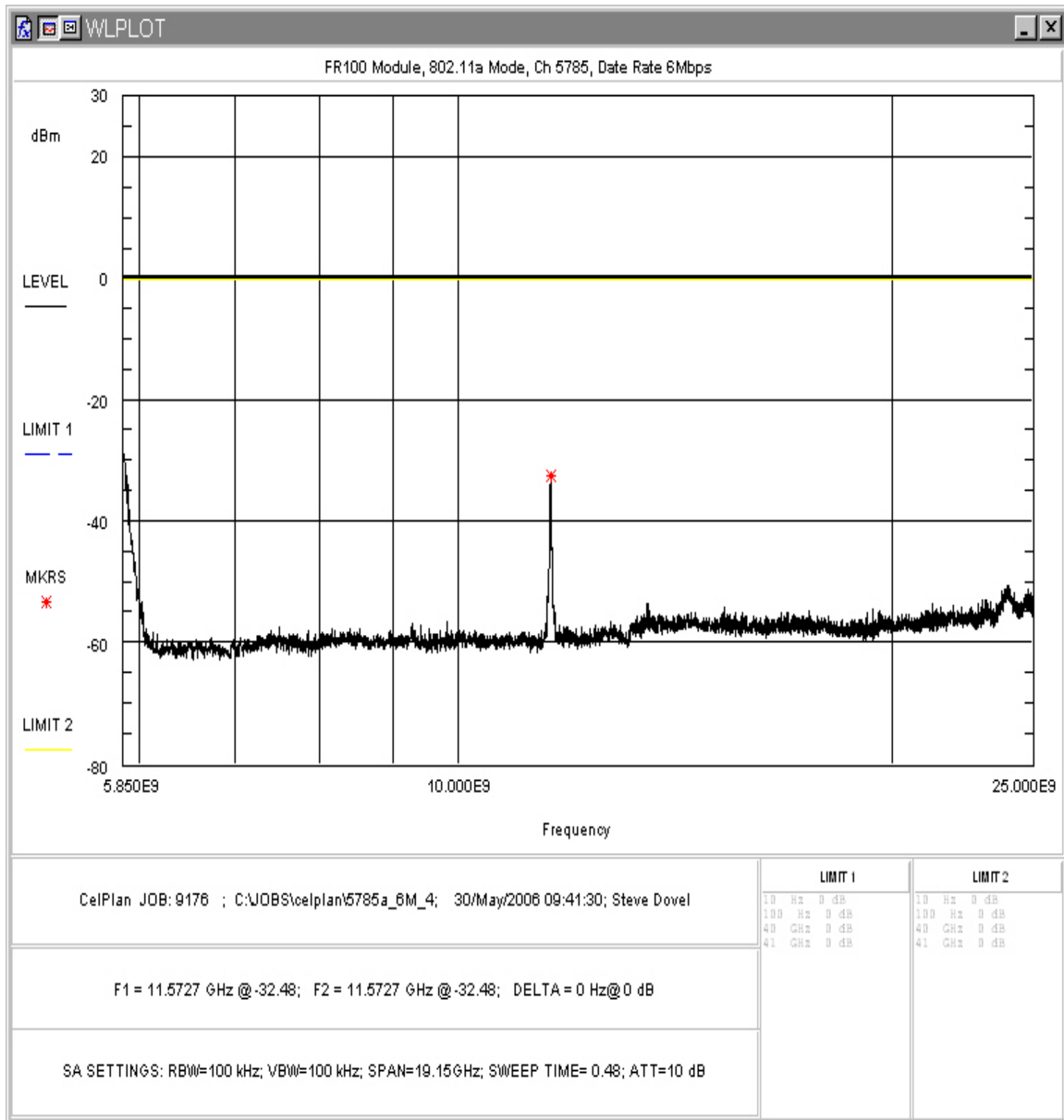


Figure 23. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5785 MHz @ 6 Mbps

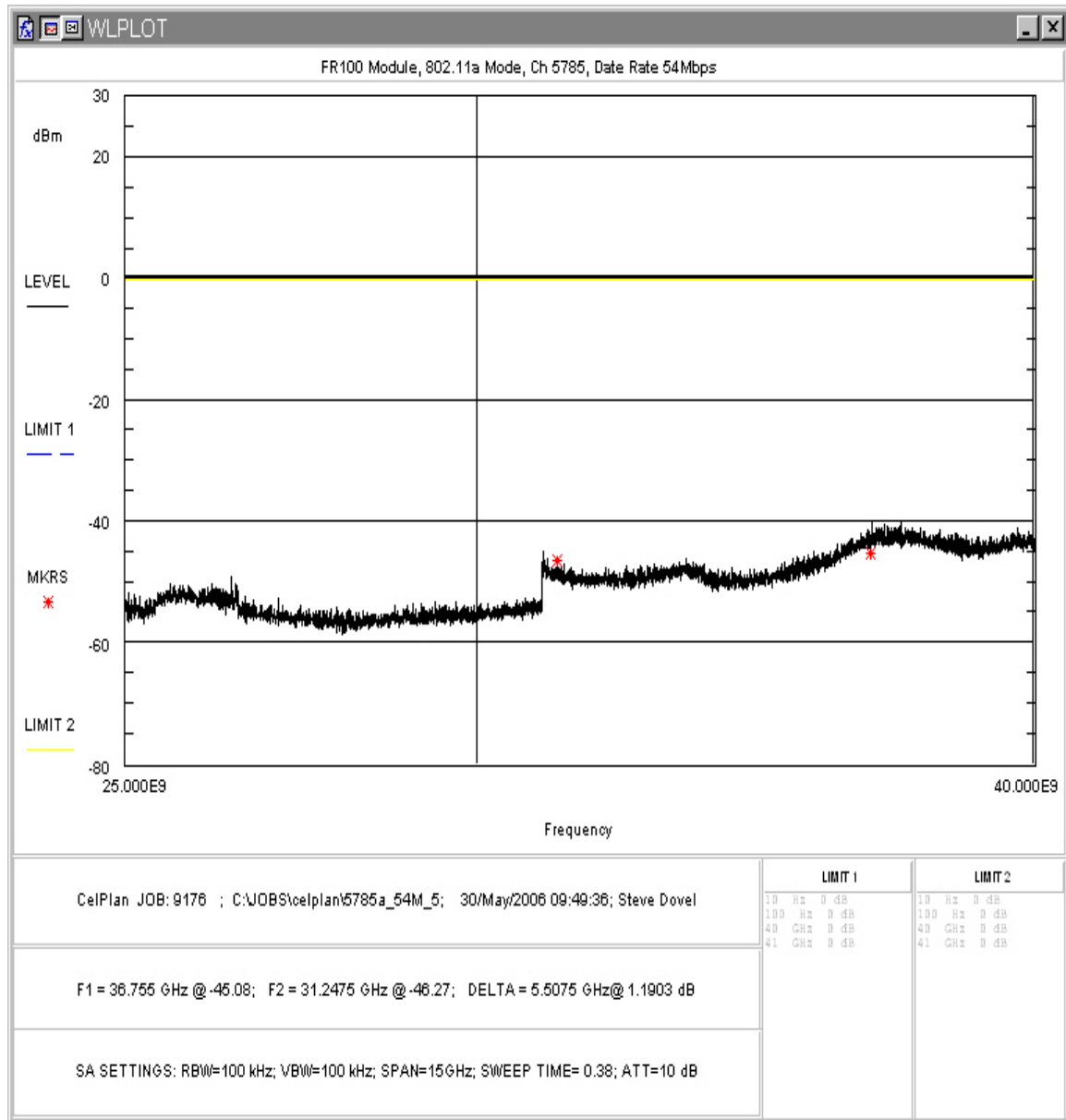


Figure 24. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5785 MHz @ 6 Mbps

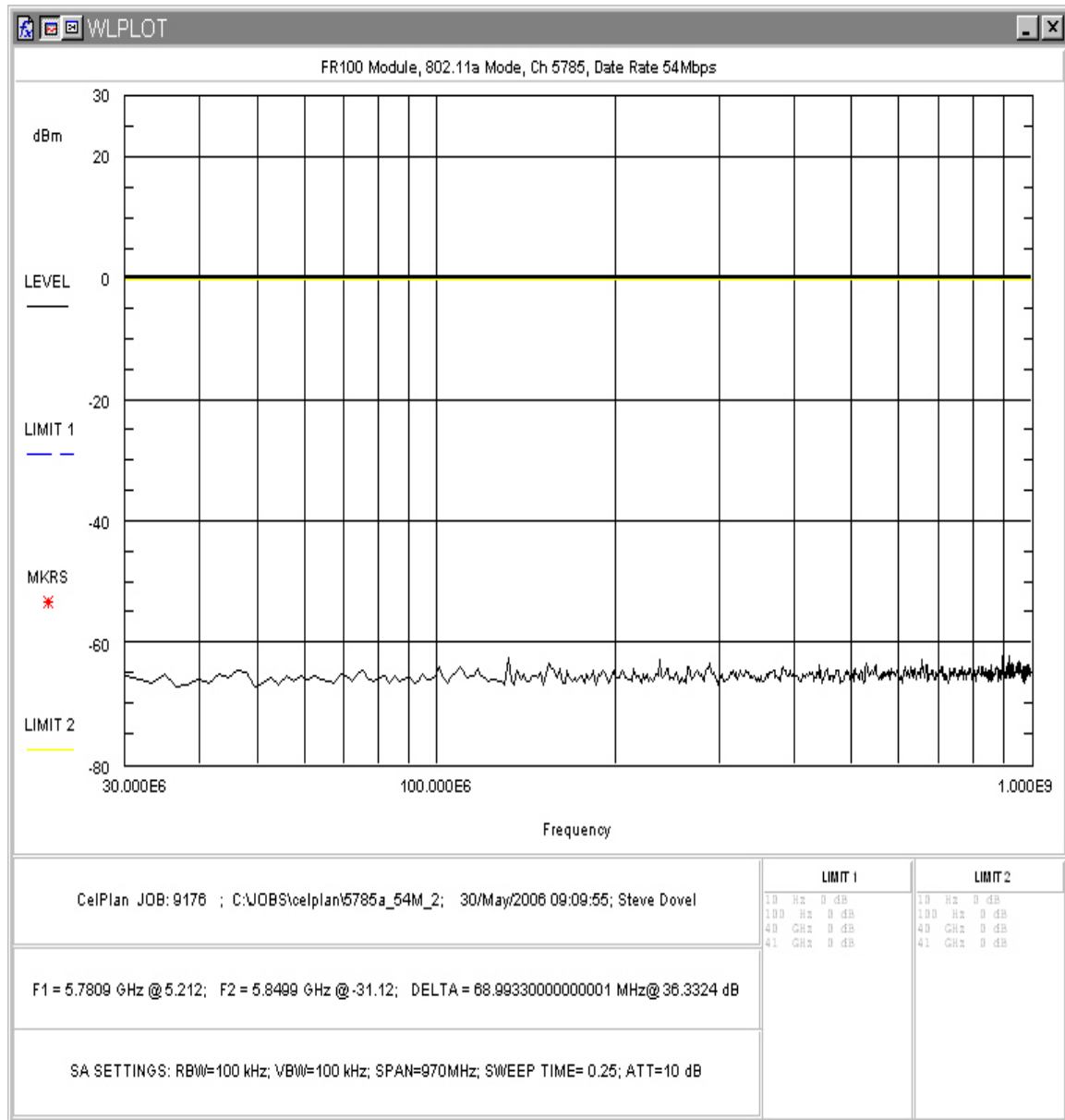


Figure 25. Conducted Spurious Emissions, 30 MHz– 1 GHz. 5785 MHz @ 54 Mbps

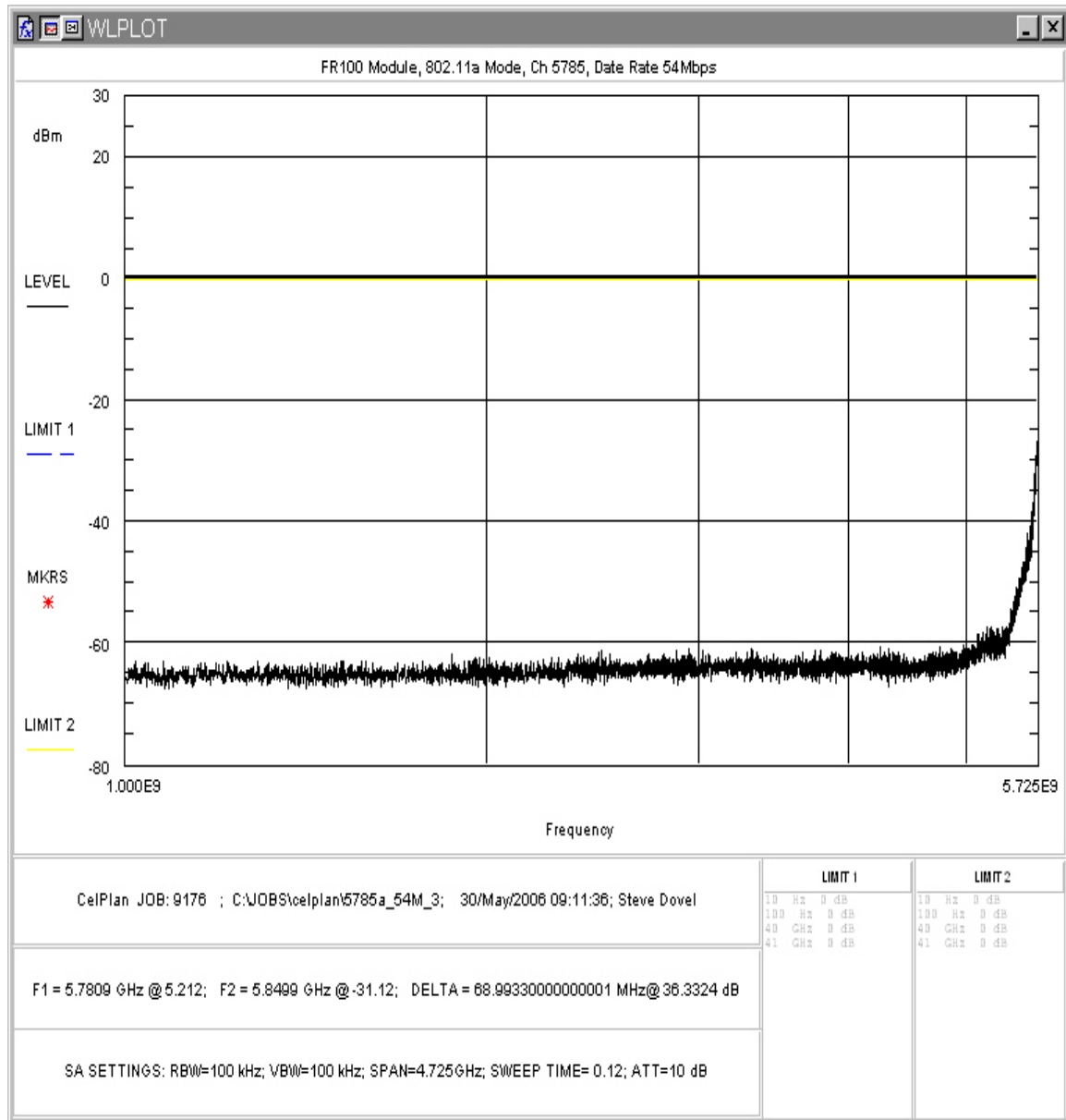


Figure 26. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5785 MHz @ 54 Mbps

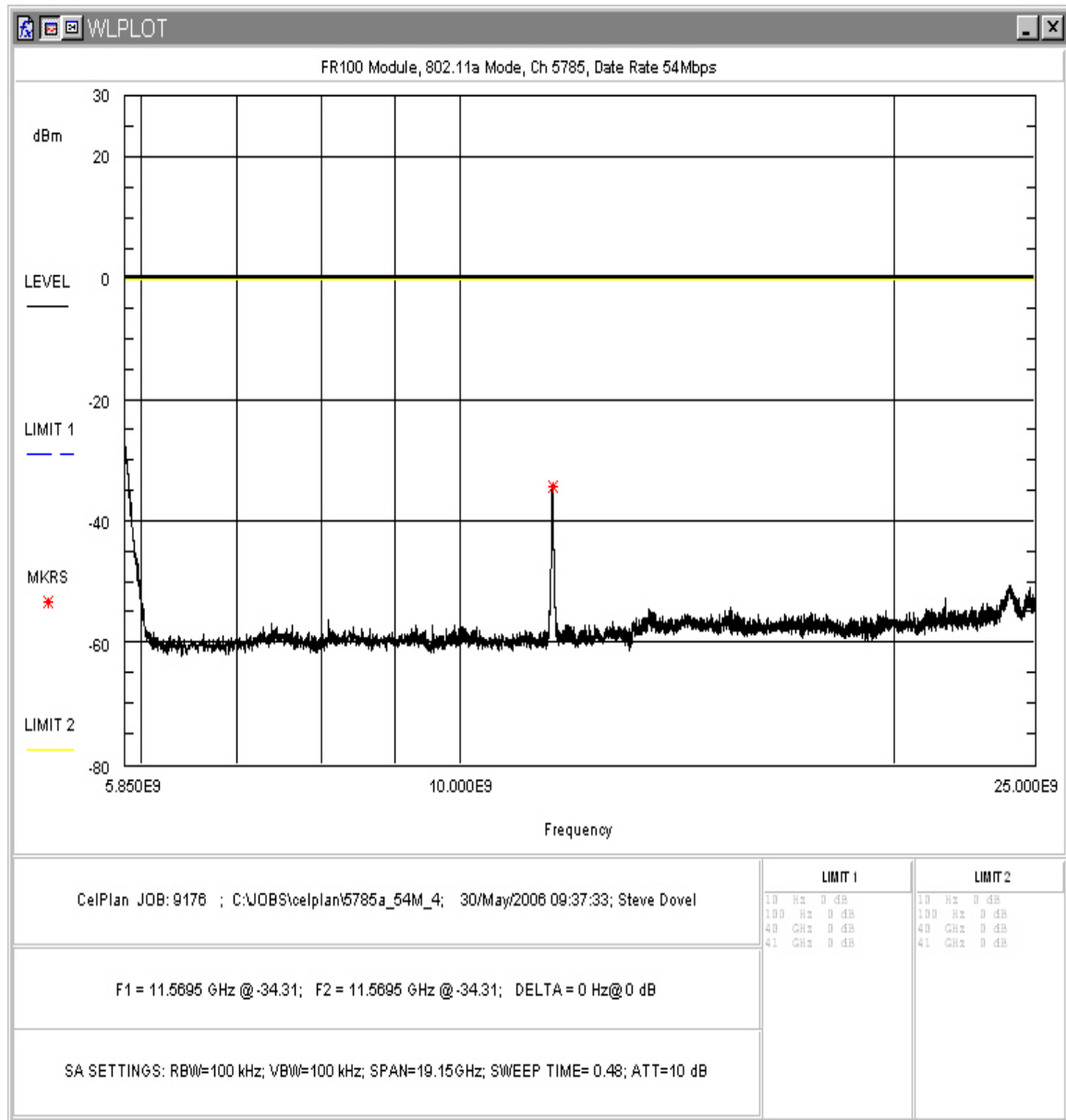


Figure 27. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5785 MHz @ 54 Mbps

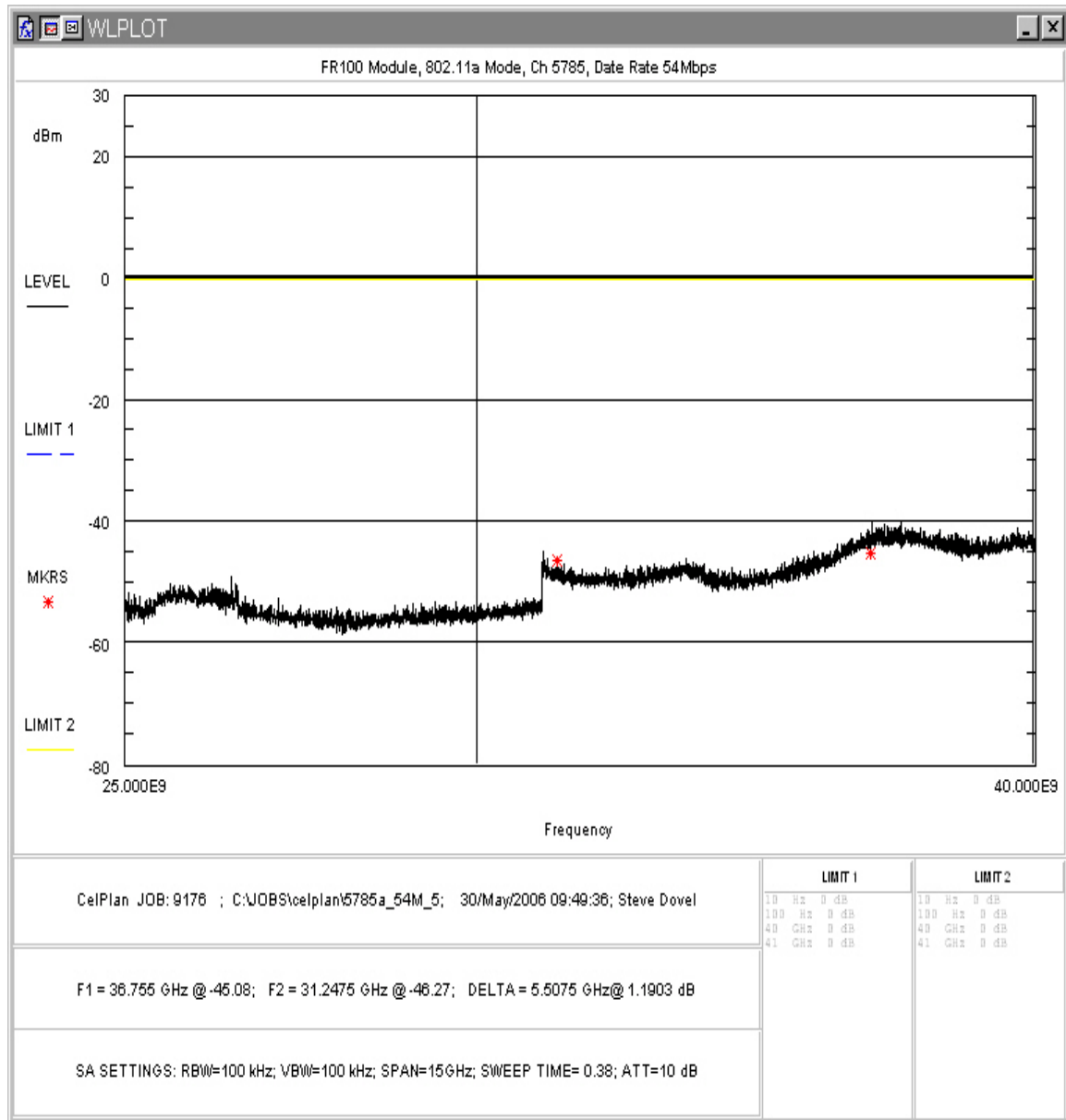


Figure 28. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5785 MHz @ 54 Mbps

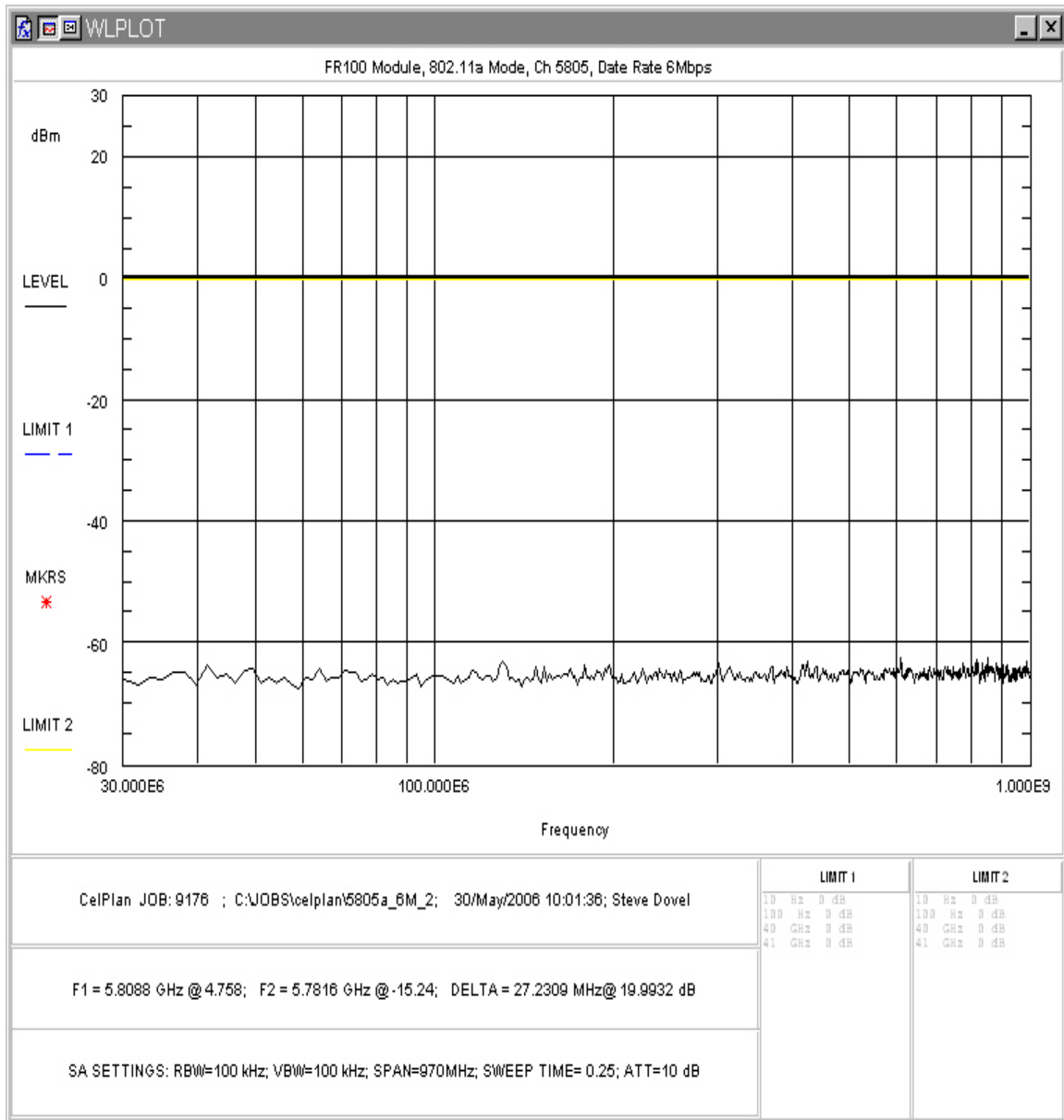


Figure 29. Conducted Spurious Emissions, 30 MHz– 1 GHz. 5805 MHz @ 6 Mbps

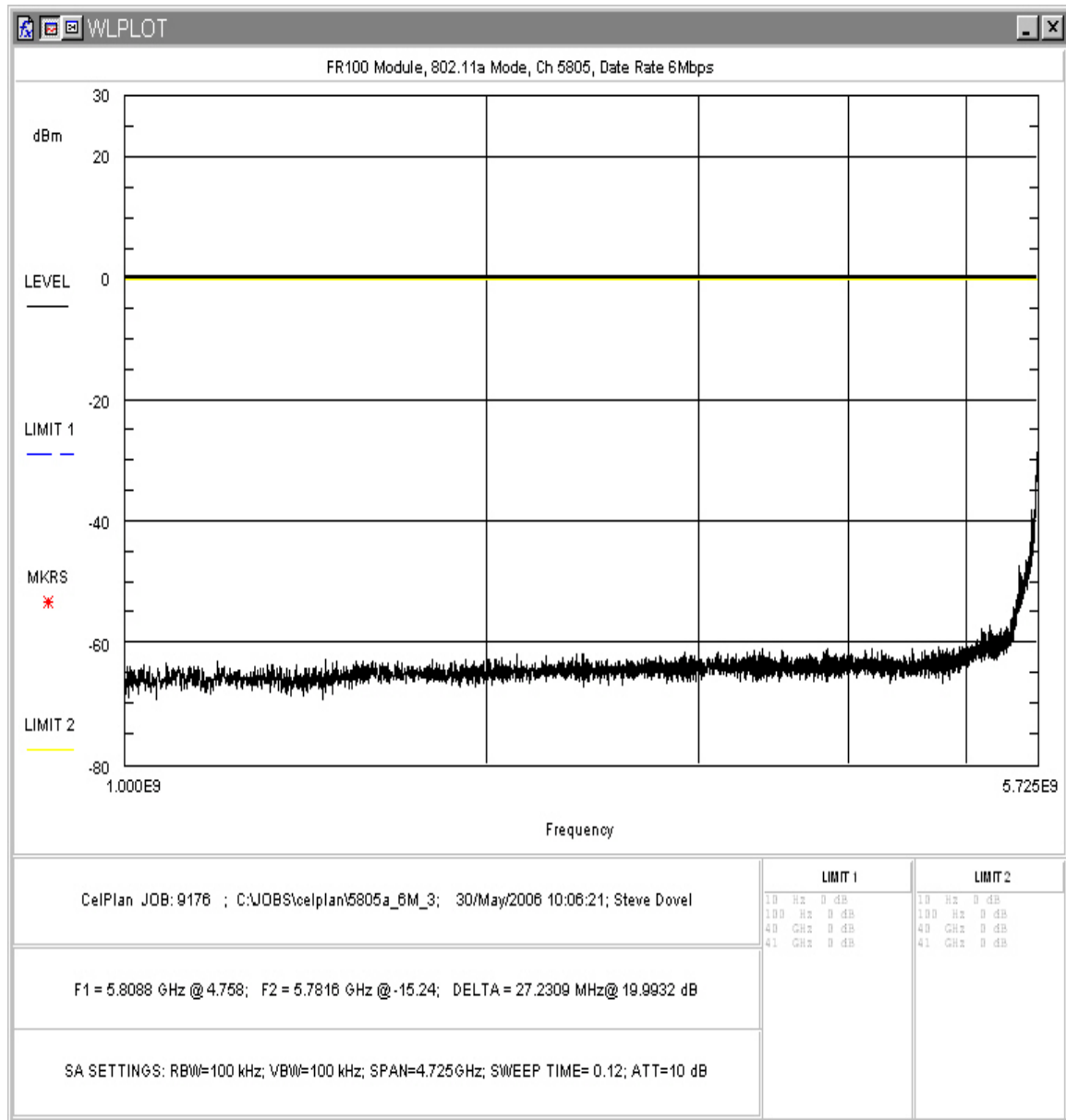


Figure 30. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5805 MHz @ 6 Mbps

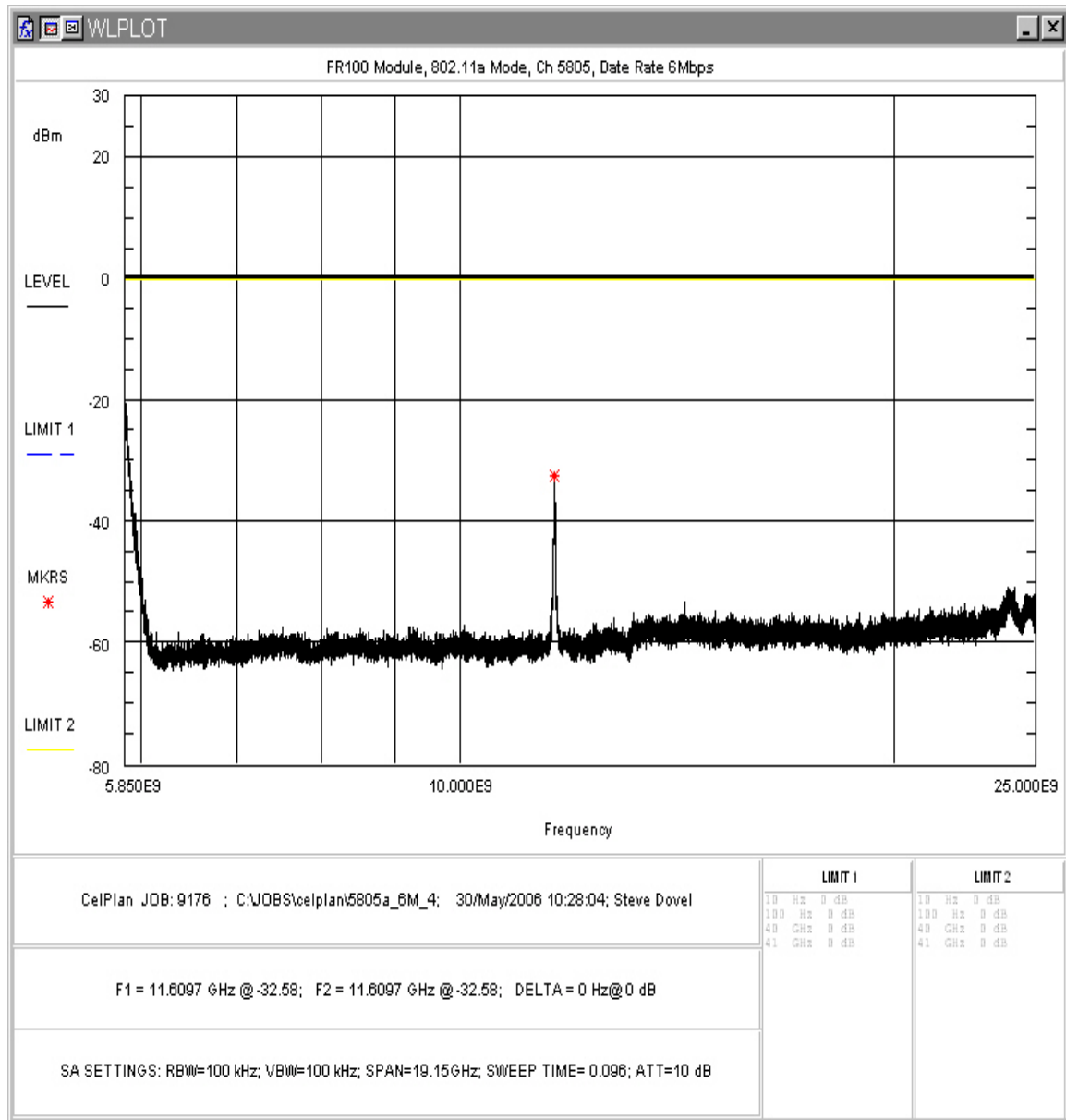


Figure 31. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5805 MHz @ 6 Mbps

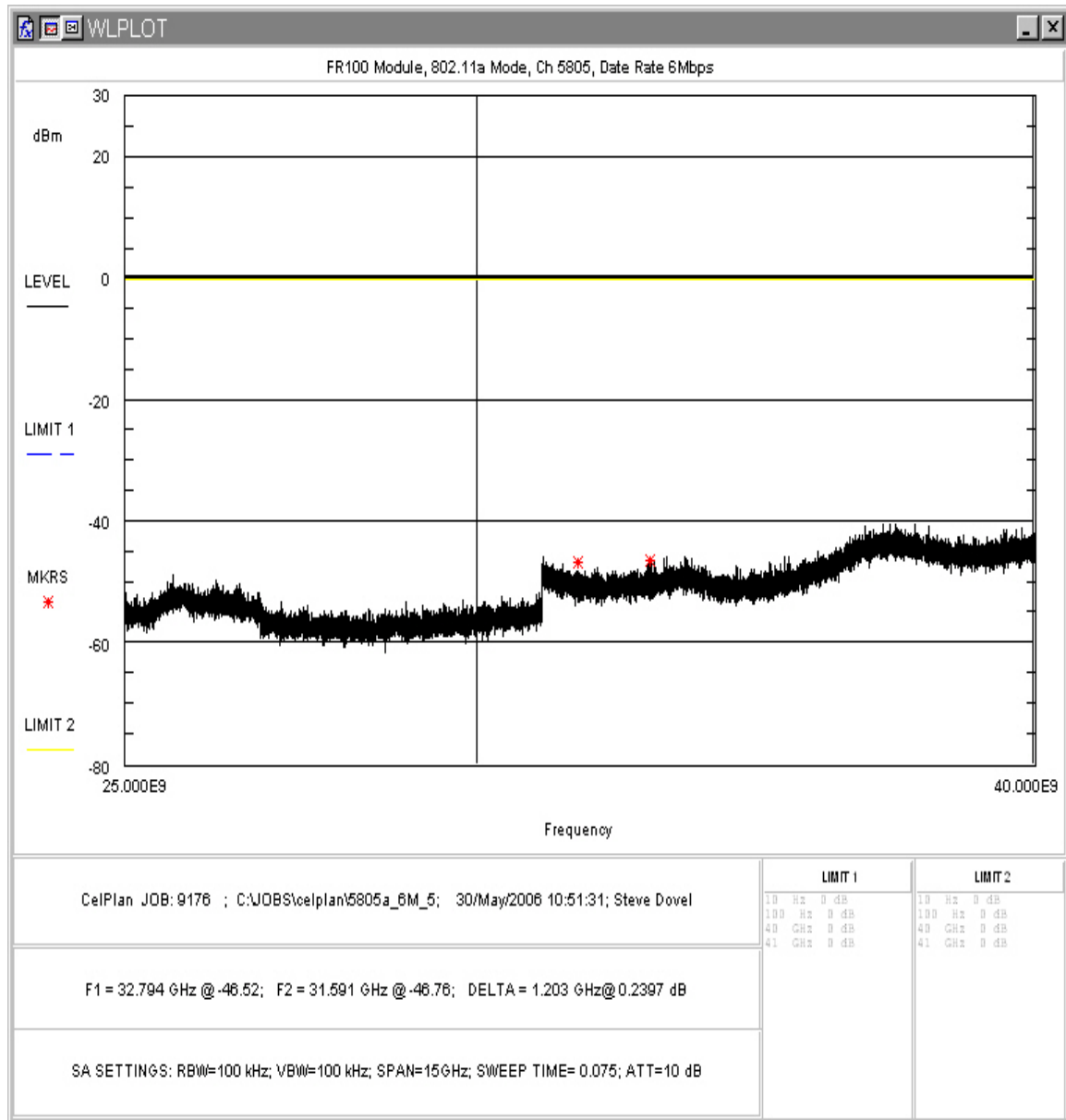


Figure 32. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5805 MHz @ 6 Mbps

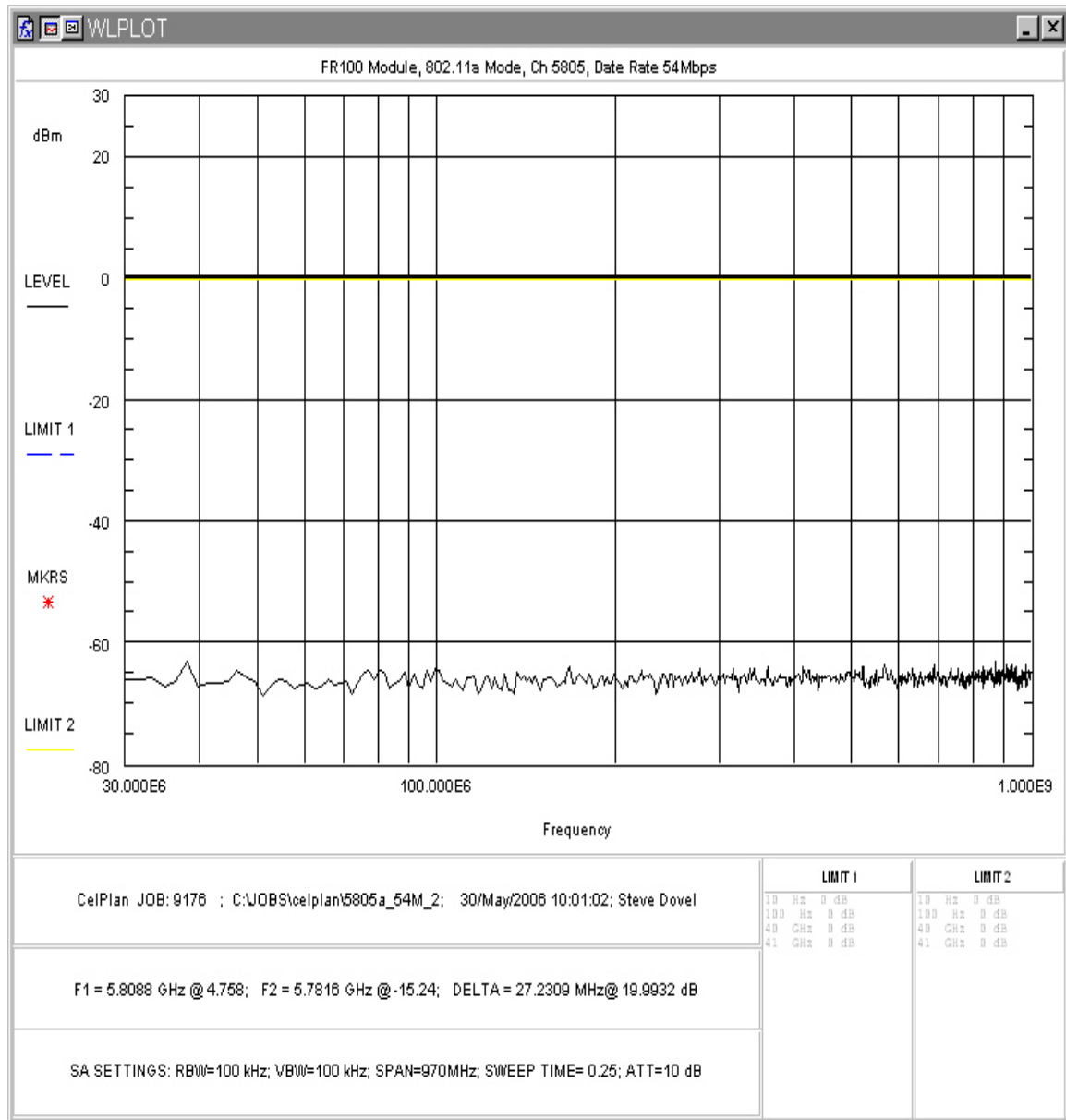


Figure 33. Conducted Spurious Emissions, 30 MHz– 1 GHz. 5805 MHz @ 54 Mbps

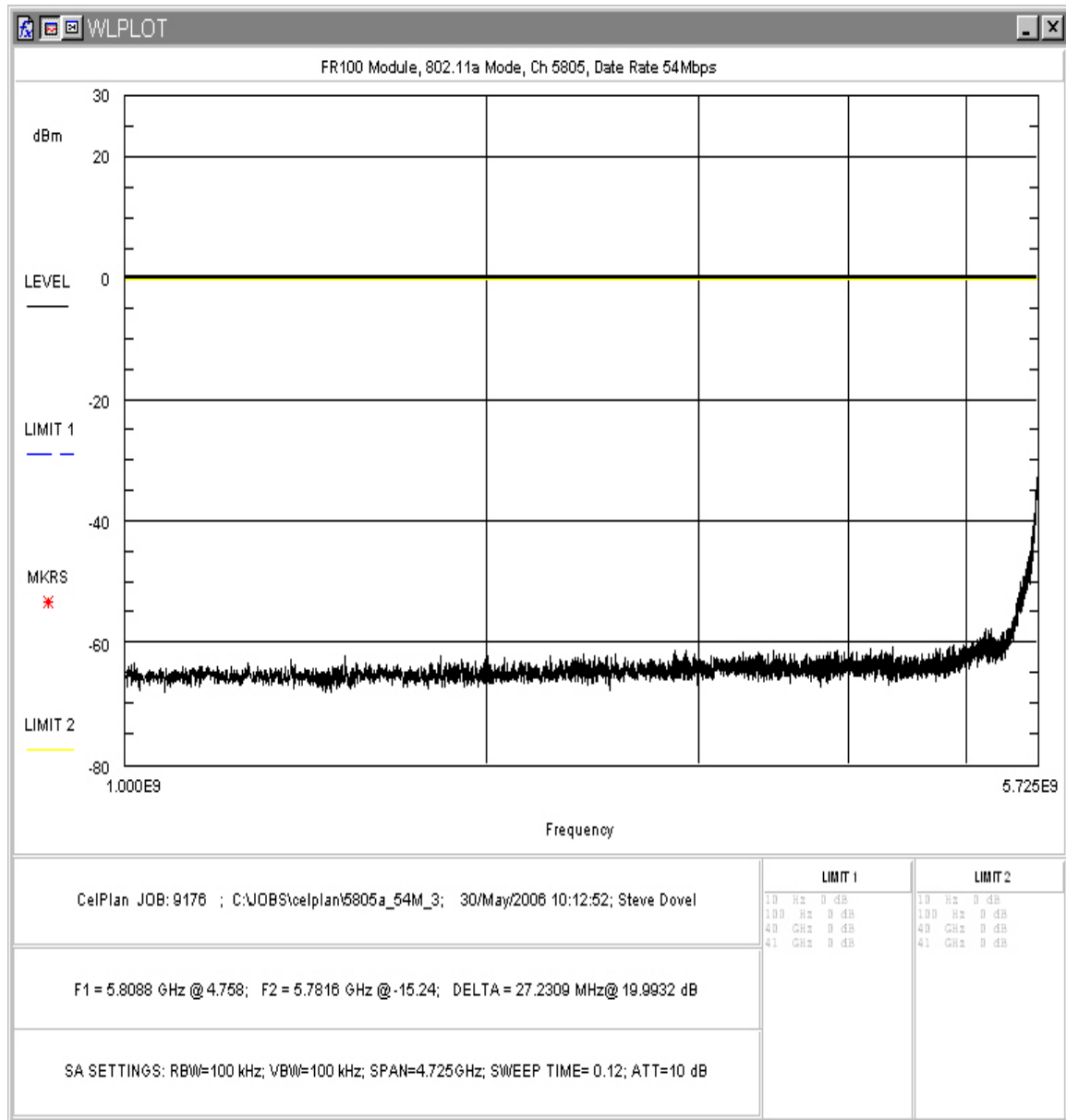


Figure 34. Conducted Spurious Emissions, 1 GHz– 5 GHz. 5805 MHz @ 54 Mbps

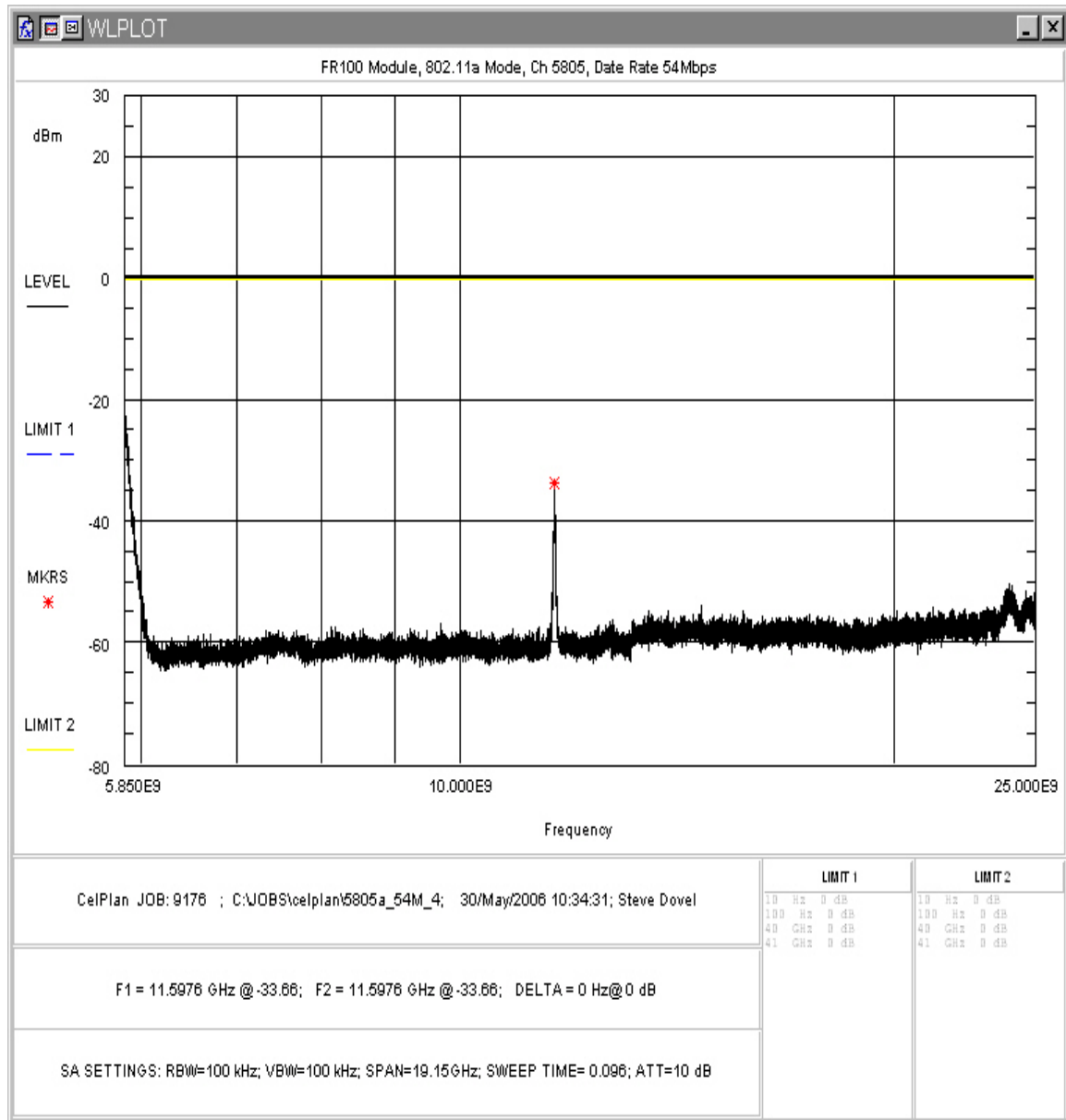


Figure 35. Conducted Spurious Emissions, 5 MHz– 25 GHz. 5805 MHz @ 54 Mbps

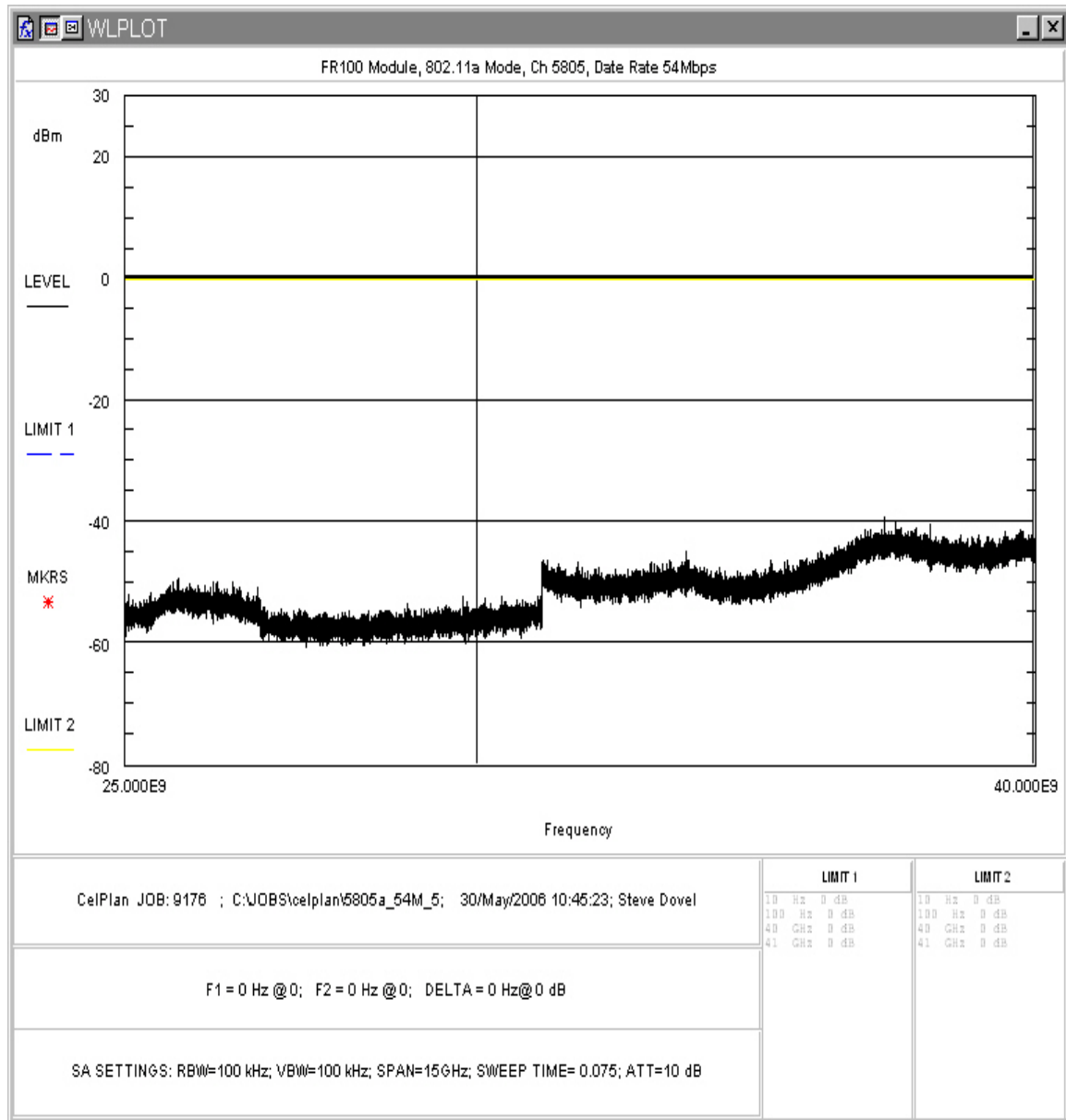


Figure 36. Conducted Spurious Emissions, 25 MHz– 40 GHz. 5805 MHz @ 54 Mbps

4.2.4 Radiated Spurious Emissions: (FCC Part §2.1053)

The EUT must comply with the requirements for radiated spurious emissions that fall within the restricted bands. These emissions must meet the limits specified in §15.209 and §15.35(b) for peak measurements.

4.2.4.1 Test Procedure

The EUT was placed on motorized turntable for radiated testing on a 3-meter open field test site. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. Receiving antennas were mounted on an antenna mast to determine the height of maximum emissions. The height of the antenna was varied between 1 and 4 meters. The peripherals were placed on the table in accordance with ANSI C63.4-2001. Cables were varied in position to produce maximum emissions. Both the horizontal and vertical field components were measured.

The emissions were measured using the following resolution bandwidths:

Frequency Range	Resolution Bandwidth	Video Bandwidth
30MHz-1000 MHz	120kHz	>100 kHz
>1000 MHz	1 MHz	<30 Hz (Avg.) 1MHz (Peak)

Table 9: Radiated Emission Test Data, Low Frequency Data (<1GHz)

CLIENT: Celplan
TESTER: John Repella

DATE: 11/21/2006
JOB #: 9148/8566

Frequency (MHz)	Polarity H/V	Az Deg	Ant. Hght (m)	SA Level (QP) (dBµV)	Ant. Corr. (dB/m)	Cable Corr. (dB)	Corr. Level (dBµV/m)	Corr. Level (µV/m)	Limit (µV/m)	Margin (dB)	Notes
44.650	V	263.0	1.5	7.2	10.2	1.3	18.7	8.6	100.0	-21.3	BB
48.026	V	263.0	1.5	11.0	8.5	1.3	20.8	11.0	100.0	-19.2	BB
50.228	V	263.0	1.5	12.5	7.6	1.3	21.4	11.7	100.0	-18.6	BB
50.710	V	263.0	1.5	13.3	7.5	1.3	22.1	12.8	100.0	-17.9	BB
51.805	V	263.0	1.5	13.9	7.4	1.3	22.6	13.5	100.0	-17.4	BB
52.600	V	263.0	1.5	13.3	7.3	1.3	21.9	12.5	100.0	-18.1	BB
53.172	V	263.0	1.5	13.3	7.2	1.3	21.9	12.4	100.0	-18.1	BB
60.950	V	263.0	1.5	14.7	7.4	1.5	23.6	15.1	100.0	-16.4	BB
61.980	V	263.0	1.5	12.9	7.5	1.5	21.9	12.4	100.0	-18.1	BB
75.725	V	263.0	1.5	6.6	8.0	1.6	16.2	6.4	100.0	-23.8	BB
84.350	V	263.0	1.5	11.6	7.4	1.7	20.7	10.9	100.0	-19.3	BB
109.150	V	263.0	1.5	2.6	12.5	1.9	17.1	7.1	150.0	-26.5	BB
165.036	V	0.0	2.0	4.8	12.0	2.4	19.2	9.1	150.0	-24.3	
198.033	V	306.0	1.5	9.1	12.2	2.6	23.9	15.6	150.0	-19.6	
250.018	V	0.0	2.0	6.1	11.5	3.0	20.6	10.7	200.0	-25.4	
264.031	V	306.0	2.0	5.1	12.6	3.1	20.8	11.0	200.0	-25.2	
297.034	V	0.0	2.0	7.7	13.4	3.3	24.5	16.8	200.0	-21.5	
396.031	V	306.0	2.0	4.0	15.5	3.9	23.4	14.8	200.0	-22.6	
462.031	V	306.0	2.0	5.1	17.3	4.3	26.7	21.5	200.0	-19.4	
52.600	H	180.0	3.5	4.9	7.3	1.3	13.5	4.7	100.0	-26.5	BB
53.172	H	180.0	3.5	5.9	7.2	1.3	14.5	5.3	100.0	-25.5	BB
60.950	H	180.0	3.5	11.4	7.4	1.5	20.3	10.3	100.0	-19.7	BB
61.980	H	180.0	3.5	13.1	7.5	1.5	22.1	12.7	100.0	-17.9	BB
75.725	H	180.0	3.5	15.2	8.0	1.6	24.8	17.3	100.0	-15.2	BB
84.350	H	263.0	3.5	6.8	7.4	1.7	15.9	6.3	100.0	-24.1	BB
109.150	H	0.0	3.5	7.1	12.5	1.9	21.6	12.0	150.0	-22.0	BB
165.036	H	107.0	3.5	7.1	12.0	2.4	21.5	11.9	150.0	-22.0	
198.033	H	90.0	3.5	5.1	12.2	2.6	19.9	9.9	150.0	-23.6	
250.031	H	180.0	3.5	8.2	11.5	3.0	22.8	13.7	200.0	-23.3	
264.031	H	180.0	3.5	5.6	12.6	3.1	21.3	11.6	200.0	-24.7	
297.034	H	0.0	3.5	7.2	13.4	3.3	24.0	15.8	200.0	-22.0	
396.031	H	180.0	3.5	2.2	15.5	3.9	21.6	12.1	200.0	-24.4	

Table 10: Radiated Emission Test Data, High Frequency Data (>1GHz)
(Restricted Bands)

Client:	CelPlan	Date:	6/9/2006
Tester:	S. Dovell	Job #:	9148/9149
<u>EUT Information:</u>		<u>Test Requirements:</u>	
EUT:	FR100	TEST STANDARD:	FCC Part 15
Configuration:	U-NII HG2415U ant.	DISTANCE:	3m
CLASS:	B		
<u>Test Equipment (<1GHz):</u>		<u>Test Equipment (>1GHz):</u>	
ANTENNA:	A_00007	ANTENNA:	A_00425
LIMIT:	LFCC_3m_Class_B		

Frequency (MHz)	Polarity H/V	Az Deg	Ant. Hght (m)	SA Level QP dBµV	Ant. Corr. dB/m	Cable Corr. (dB)	Amp Gain (dB)	Corr. Level dBµV/m	E-Field µV/m	Limit µV/m	Margin (dB)	Note
5745 HG2415U												
11490.00	V	173.0	1.0	54.7	39.5	6.4	37.8	62.7	1368.2	68.2	-5.5	peak
11490.00	V	173.0	1.0	43.7	39.5	6.4	37.8	51.7	385.6	54.0	-2.3	avg
11490.00	H	140.0	1.0	46.3	39.5	6.4	37.8	54.3	520.2	68.2	-13.9	peak
11490.00	H	140.0	1.0	35.0	39.5	6.4	37.8	43.0	141.6	54.0	-11.0	avg
5785 HG2415U												
11570.00	V	173.0	1.0	58.5	39.5	6.4	37.8	66.6	2132.6	68.2	-1.6	peak
11570.00	V	173.0	1.0	44.8	39.5	6.4	37.8	52.9	440.5	54.0	-1.1	avg
11570.00	H	118.0	1.0	49.5	39.5	6.4	37.8	57.6	756.7	68.2	-10.6	peak
11570.00	H	118.0	1.0	38.3	39.5	6.4	37.8	46.4	208.4	54.0	-7.6	avg
5805 HG2415U												
11610.00	V	170.0	1.0	50.5	39.5	6.4	37.8	58.6	851.7	68.2	-9.6	peak
11610.00	V	179.0	1.0	40.5	39.5	6.4	37.8	48.6	269.3	54.0	-5.4	avg
11610.00	H	175.0	1.0	44.0	39.5	6.4	37.8	52.1	403.0	68.2	-16.1	peak
11610.00	H	175.0	1.0	34.0	39.5	6.4	37.8	42.1	127.4	54.0	-11.9	avg
5745 XA242												
11490.00	V	120.0	1.0	54.7	39.5	6.4	37.8	62.7	1368.2	68.2	-5.5	peak
11490.00	V	120.0	1.0	42.7	39.5	6.4	37.8	50.7	343.7	54.0	-3.3	avg
11490.00	H	128.0	1.0	47.3	39.5	6.4	37.8	55.4	585.7	68.2	-12.8	peak
11490.00	H	128.0	1.0	37.2	39.5	6.4	37.8	45.2	182.4	54.0	-8.8	avg
5785 XA242												
11570.00	V	123.0	1.0	56.8	39.5	6.4	37.8	64.9	1753.5	68.2	-3.3	peak
11570.00	V	123.0	1.0	43.0	39.5	6.4	37.8	51.1	358.0	54.0	-2.9	avg
11570.00	H	149.0	1.0	48.5	39.5	6.4	37.8	56.6	674.4	68.2	-11.6	peak
11570.00	H	149.0	1.0	37.8	39.5	6.4	37.8	45.9	196.7	54.0	-8.1	avg
5805 XA242												
11610.00	V	124.0	1.0	58.8	39.5	6.4	37.8	66.9	2214.6	68.2	-1.3	peak

Frequency (MHz)	Polarity H/V	Az Deg	Ant. Hght (m)	SA Level QP dBµV	Ant. Corr. dB/m	Cable Corr. (dB)	Amp Gain (dB)	Corr. Level dBµV/m	E-Field µV/m	Limit µV/m	Margin (dB)	Note
11610.00	V	124.0	1.0	41.8	39.5	6.4	37.8	49.9	312.8	54.0	-4.1	avg
11610.00	H	150.0	1.0	48.8	39.5	6.4	37.8	56.9	700.3	68.2	-11.3	peak
11610.00	H		1.0	38.2	39.5	6.4	37.8	46.3	206.7	54.0	-7.7	avg
5745 XA242												
11490.00	V	120.0	1.0	54.7	39.5	6.4	37.8	62.7	1368.2	68.2	-5.5	peak
11490.00	V	120.0	1.0	42.7	39.5	6.4	37.8	50.7	343.7	54.0	-3.3	avg
11490.00	H	128.0	1.0	47.3	39.5	6.4	37.8	55.4	585.7	68.2	-12.8	peak
11490.00	H	128.0	1.0	37.2	39.5	6.4	37.8	45.2	182.4	54.0	-8.8	avg
5785 XA242												
11570.00	V	123.0	1.0	56.8	39.5	6.4	37.8	64.9	1753.5	68.2	-3.3	peak
11570.00	V	123.0	1.0	43.0	39.5	6.4	37.8	51.1	358.0	54.0	-2.9	avg
11570.00	H	149.0	1.0	48.5	39.5	6.4	37.8	56.6	674.4	68.2	-11.6	peak
11570.00	H	149.0	1.0	37.8	39.5	6.4	37.8	45.9	196.7	54.0	-8.1	avg
5805 XA242												
11610.00	V	124.0	1.0	58.8	39.5	6.4	37.8	66.9	2214.6	68.2	-1.3	peak
11610.00	V	124.0	1.0	41.8	39.5	6.4	37.8	49.9	312.8	54.0	-4.1	avg
11610.00	H	150.0	1.0	48.8	39.5	6.4	37.8	56.9	700.3	68.2	-11.3	peak
11610.00	H		1.0	38.2	39.5	6.4	37.8	46.3	206.7	54.0	-7.7	avg