

8 Spurious Emissions at Antenna Terminals

8.1 Test Specification

FCC Part 27, Subpart C, Sections 27.53(c)(1) (3) 27.53 (g)

8.2 Test Procedure

(Temperature (22°C)/ Humidity (36%RH))

The E.U.T. antenna terminal was connected to the spectrum analyzer through an external attenuator and an appropriate coaxial cable (max loss=20.8dB).

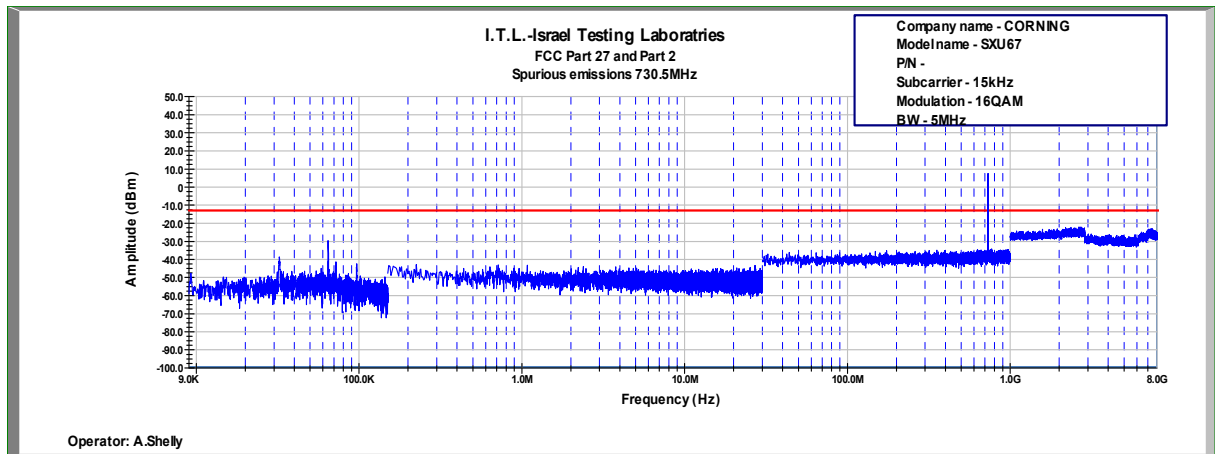
8.3 Test Limit

The power of any emission outside of the authorized operating frequency ranges (728 -758 MHz) must be attenuated below the transmitting power (P) by a factor of $43 + 10 \log (P)$ dB.

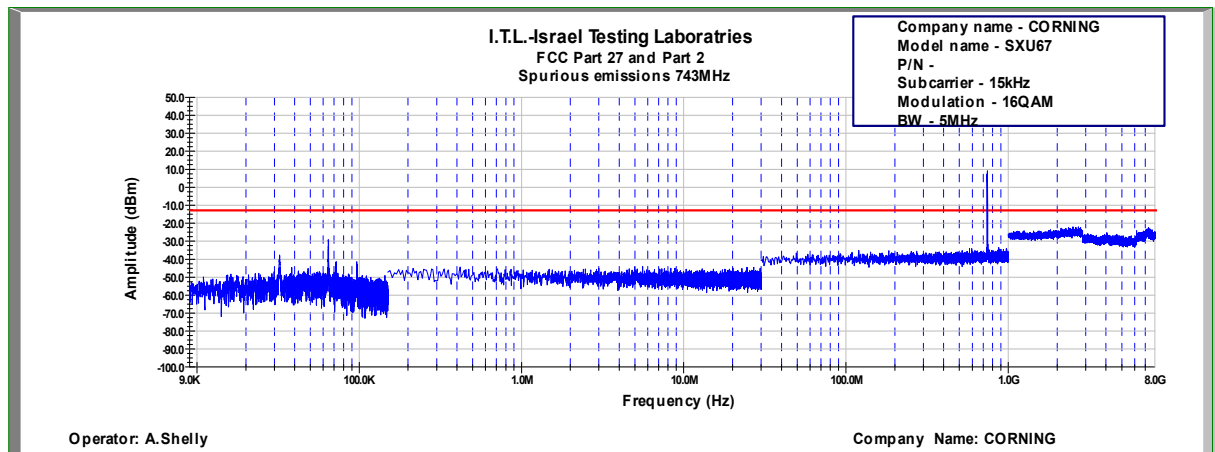
8.4 Test Results

JUDGEMENT: Passed

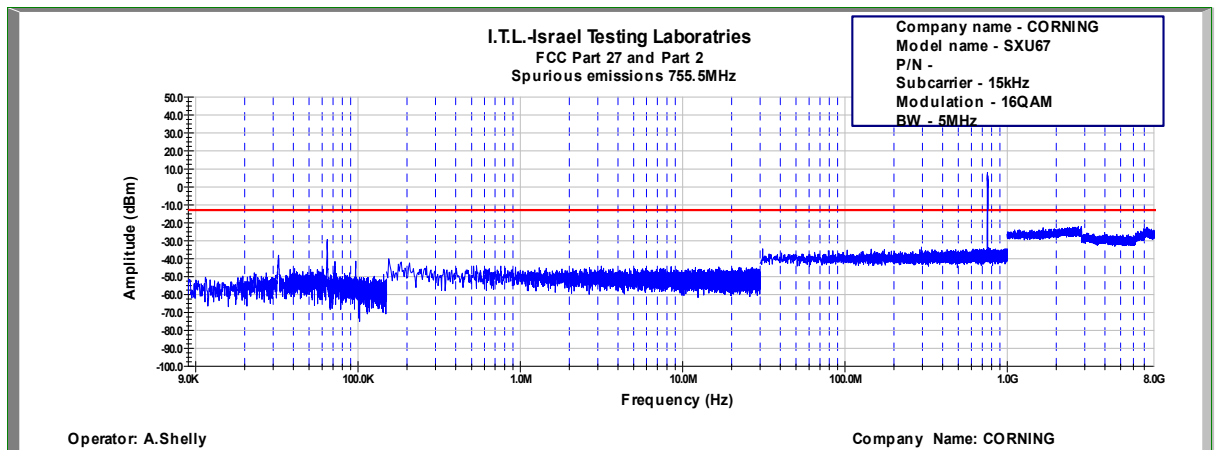
See additional information in Figure 621 to Figure 752.



**Figure 621: Spurious Emissions at Antenna Terminal 16QAM, 730.5MHz,
B.W. 5MHz, Sub Carrier 15kHz**



**Figure 622: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 5MHz, Sub Carrier 15kHz**



**Figure 623: Spurious Emissions at Antenna Terminal 16QAM, 755.5MHz,
B.W. 5MHz, Sub Carrier 15kHz**

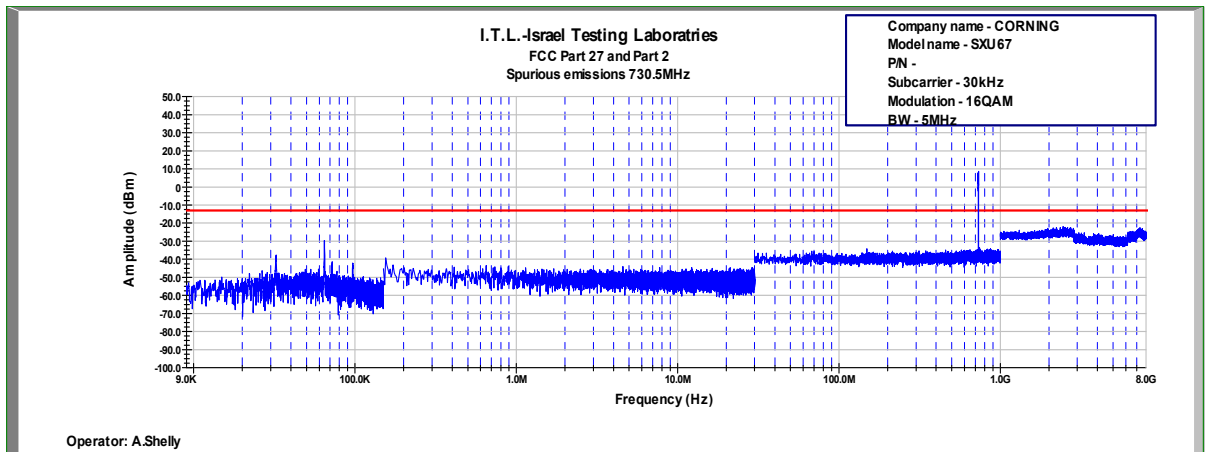


Figure 624: Spurious Emissions at Antenna Terminal 16QAM, 730.5MHz, B.W. 5MHz, Sub Carrier 30kHz

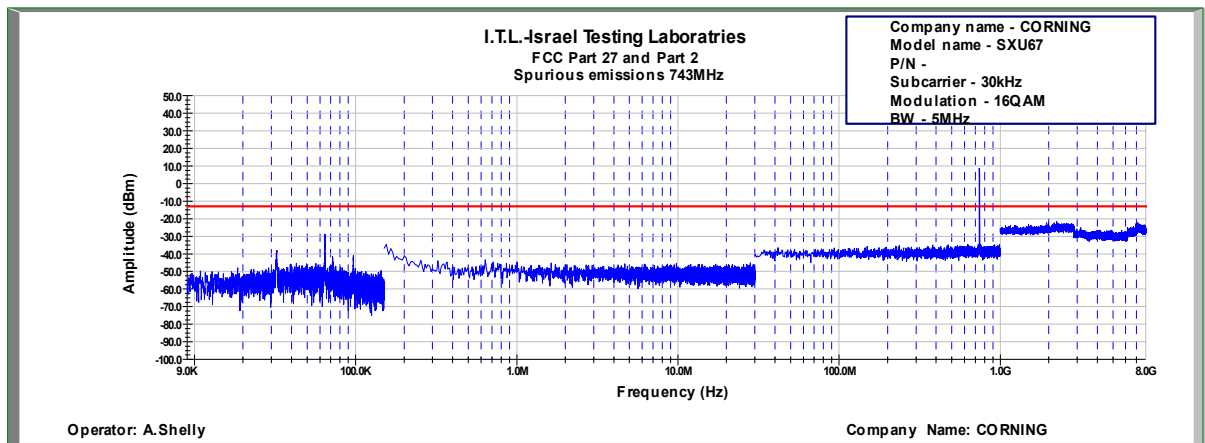


Figure 625: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 5MHz, Sub Carrier 30kHz

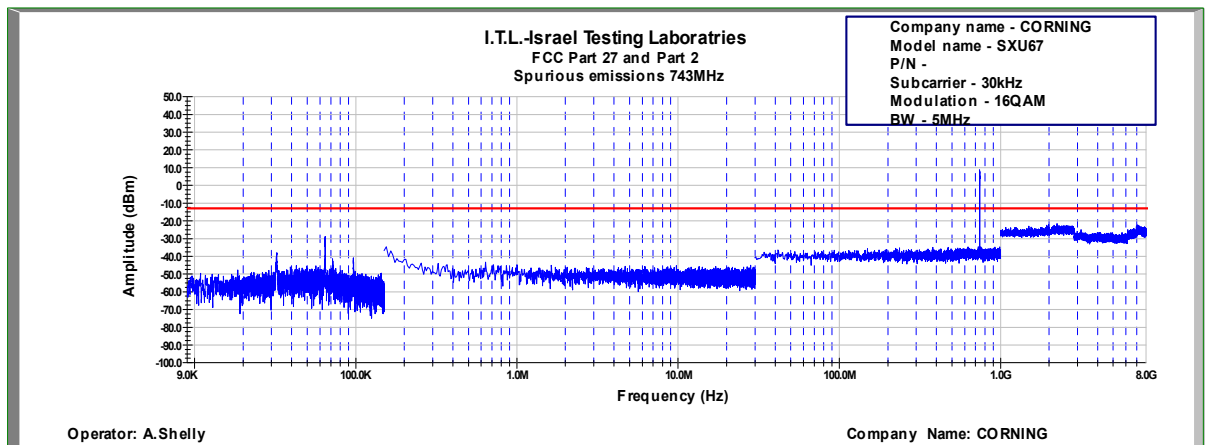
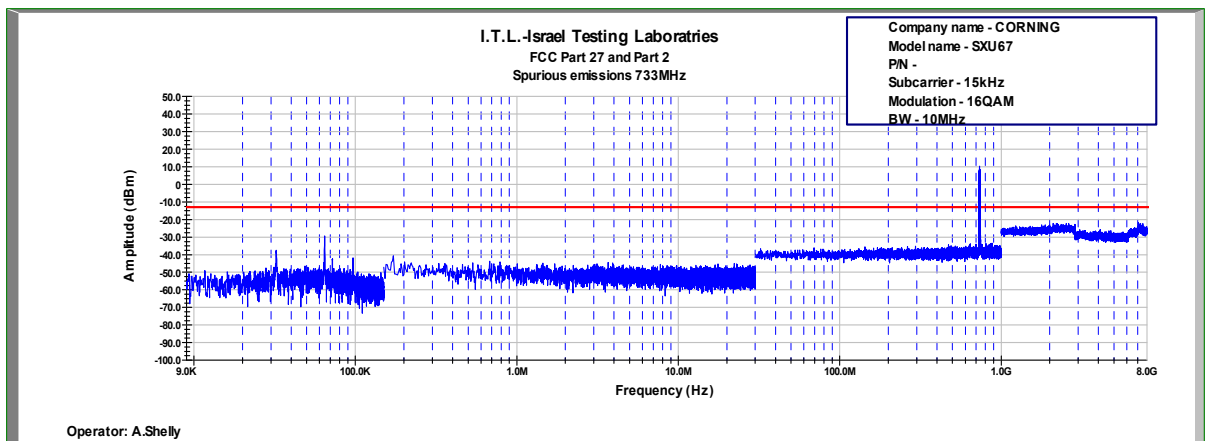
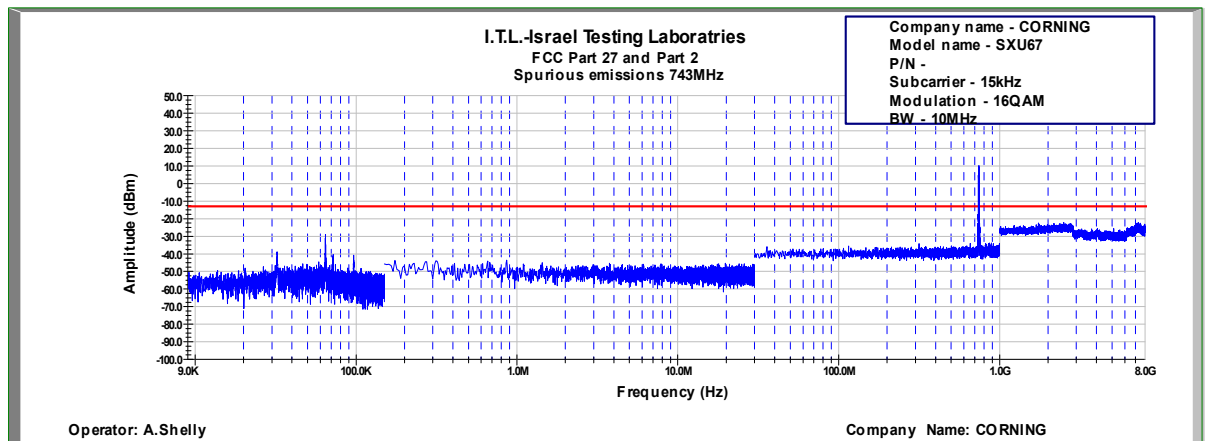


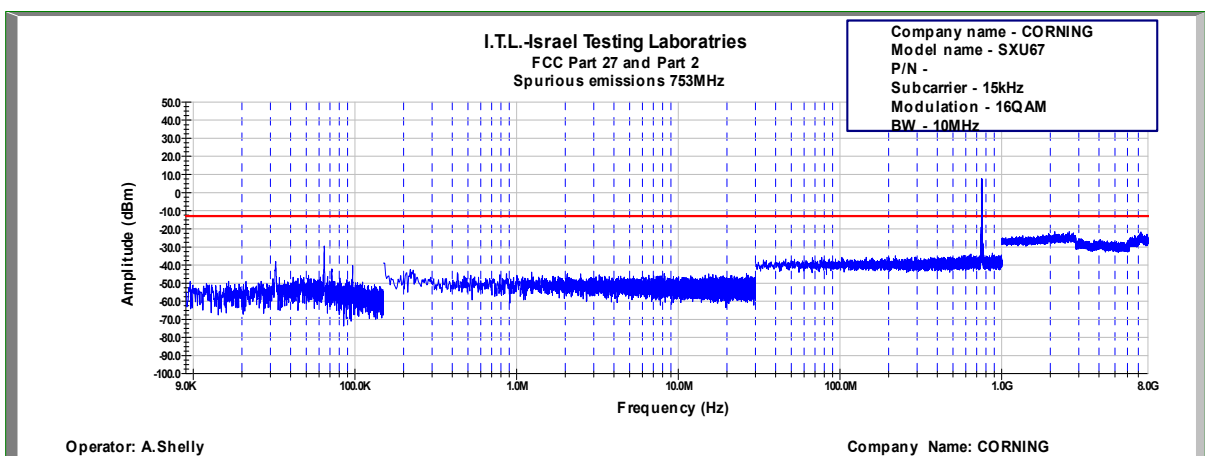
Figure 626: Spurious Emissions at Antenna Terminal 16QAM, 755.5MHz, B.W. 5MHz, Sub Carrier 30kHz



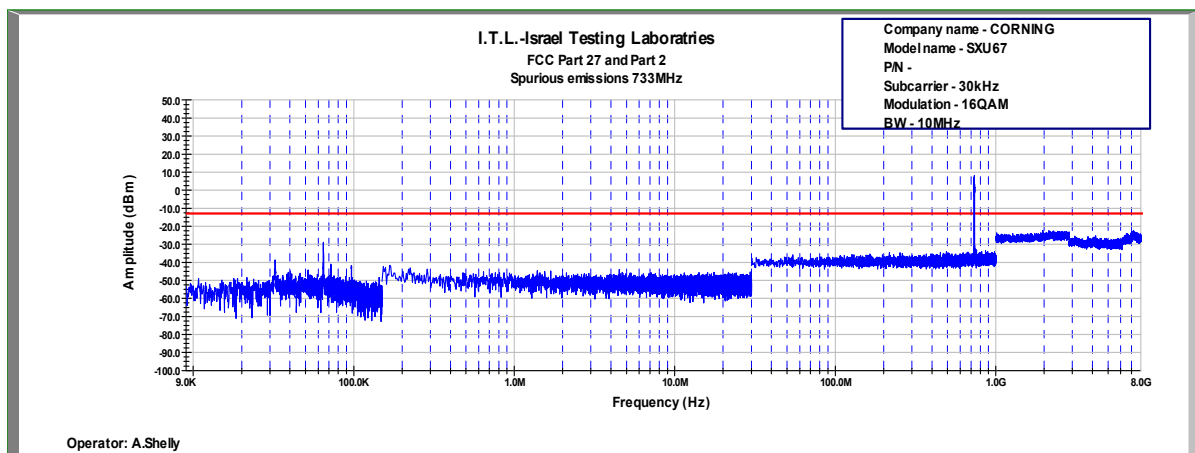
**Figure 627: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



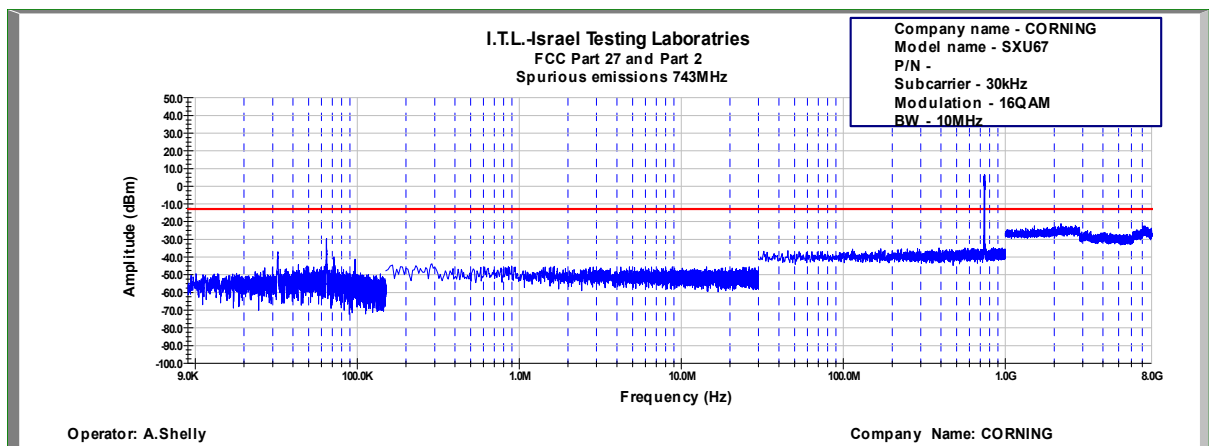
**Figure 628: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



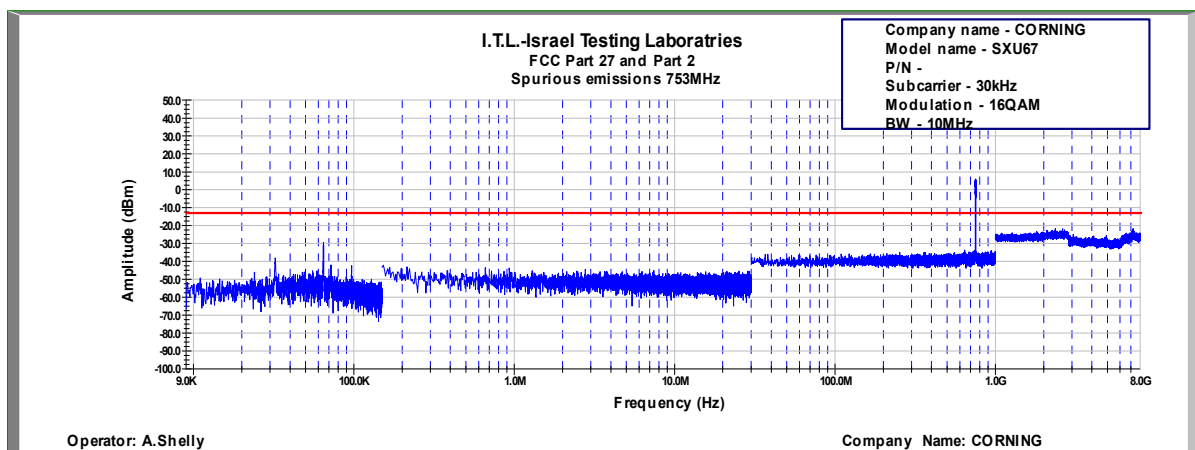
**Figure 629: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



**Figure 630: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**



**Figure 631: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**



**Figure 632: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**

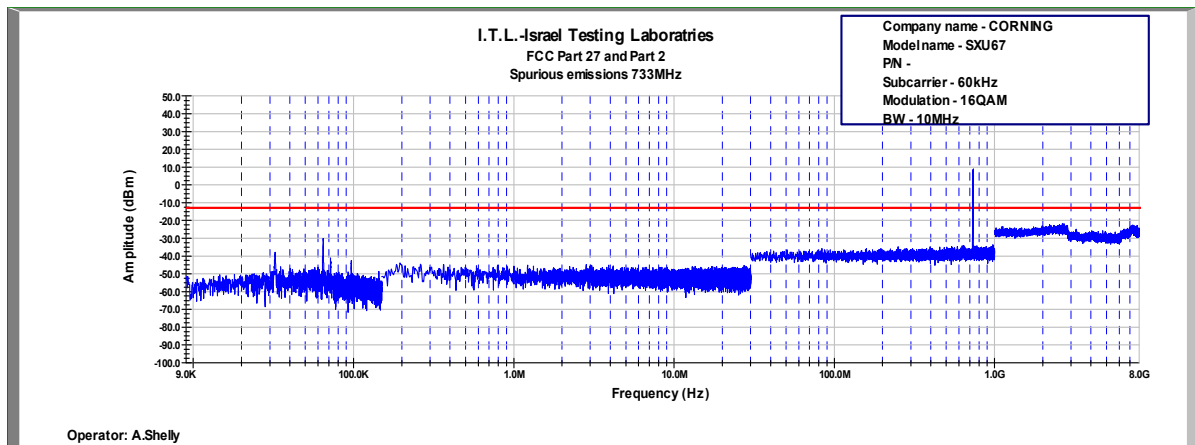


Figure 633: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 60kHz

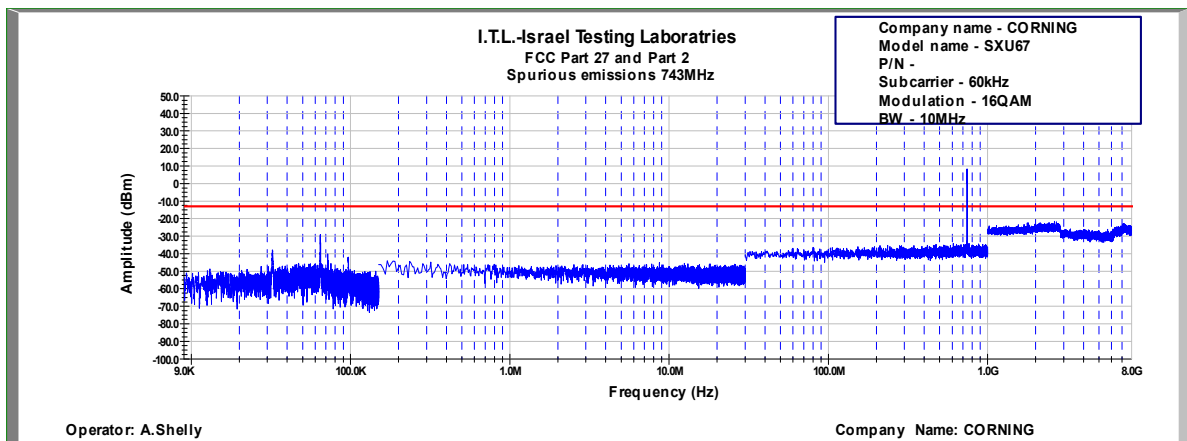


Figure 634: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 60kHz

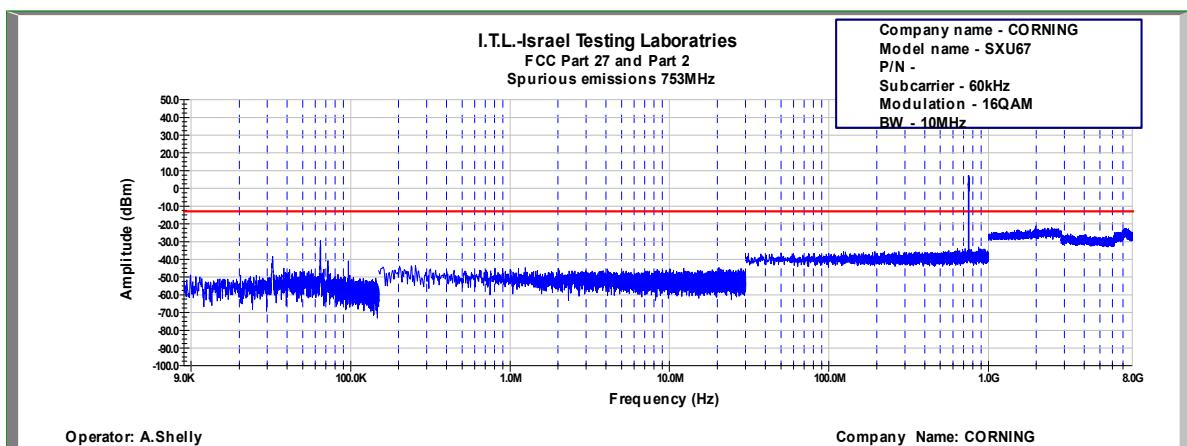
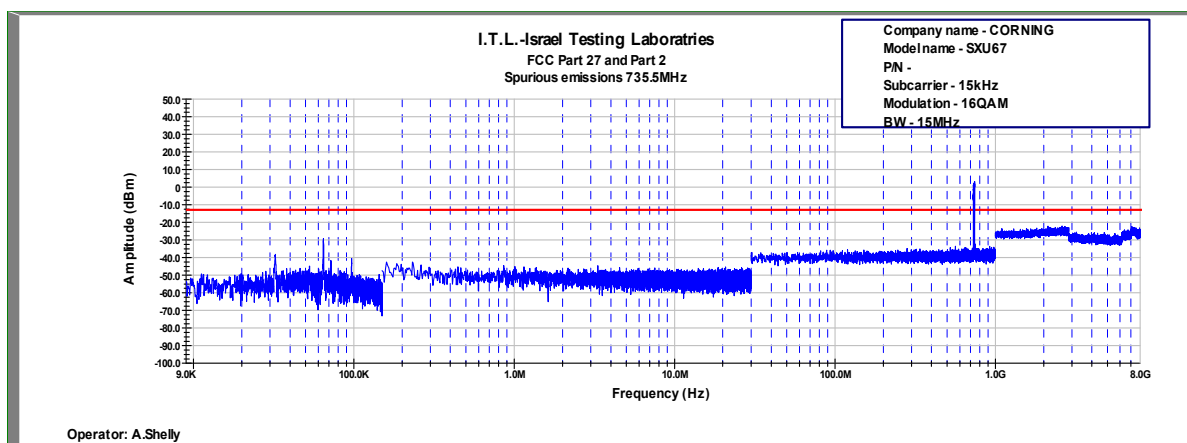
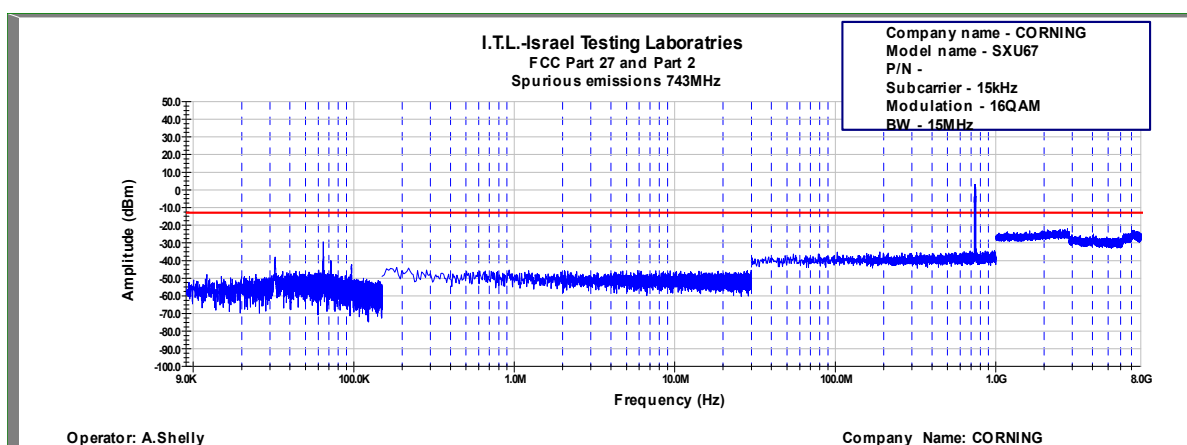


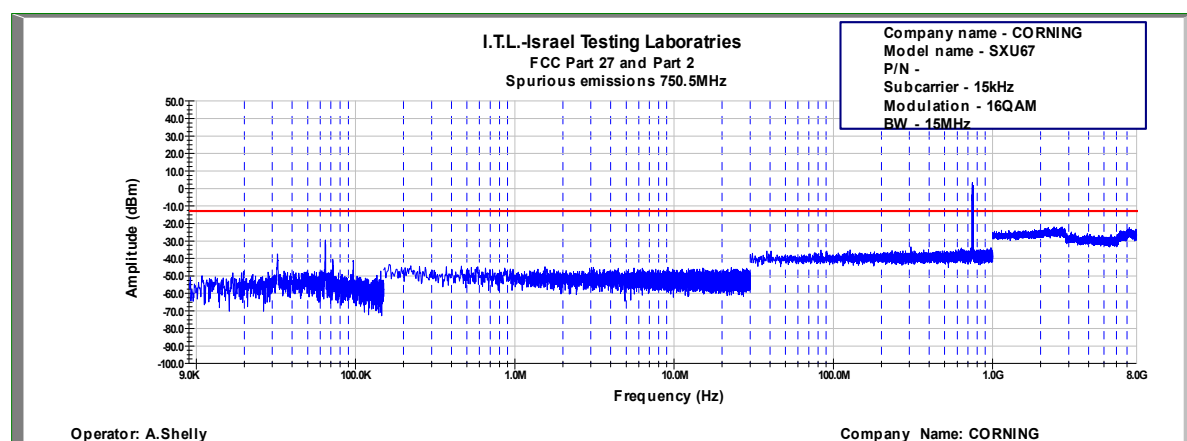
Figure 635: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 60kHz



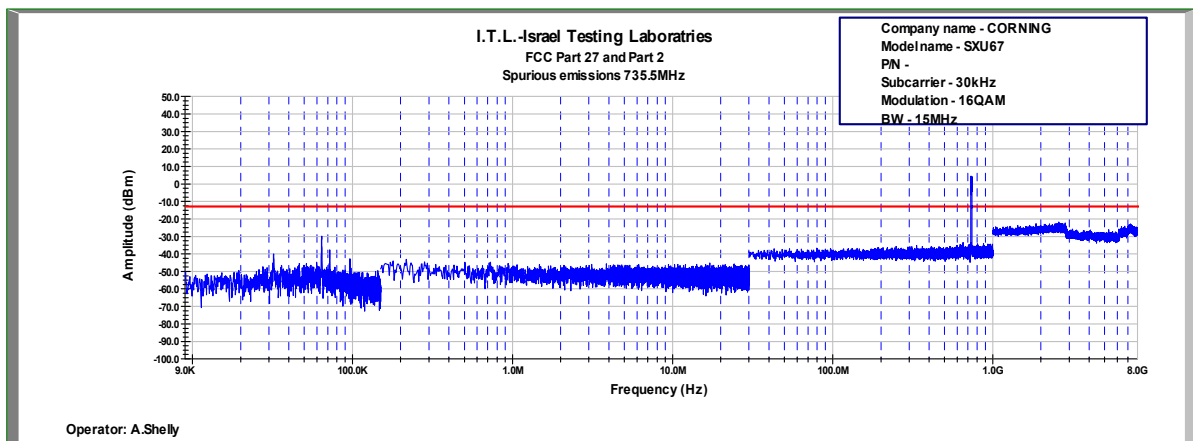
**Figure 636: Spurious Emissions at Antenna Terminal 16QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 15kHz**



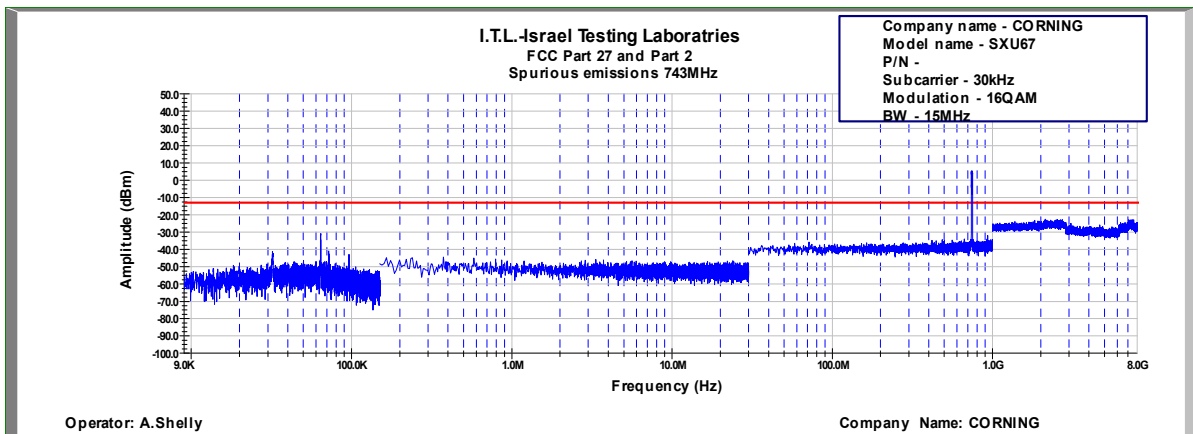
**Figure 637: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 15kHz**



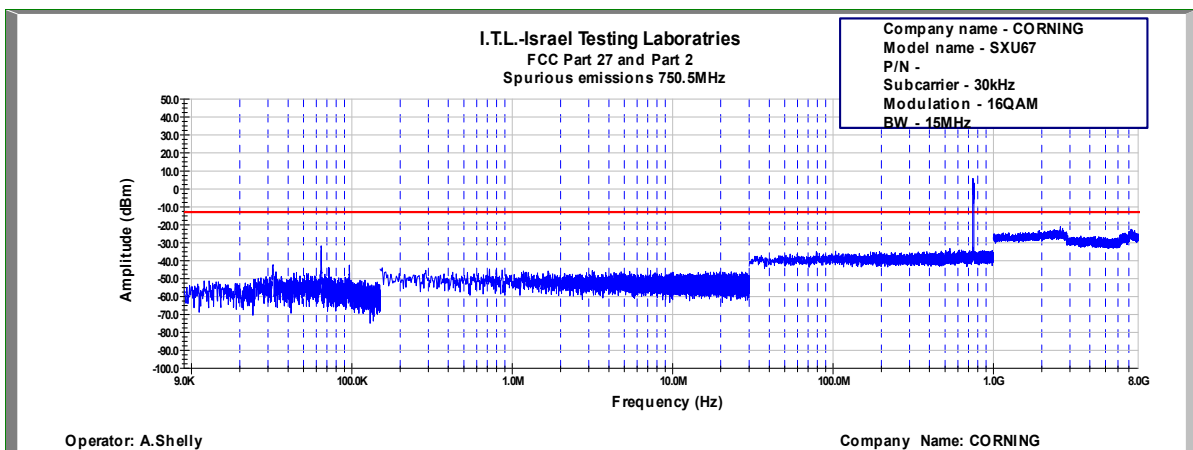
**Figure 638: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 15kHz**



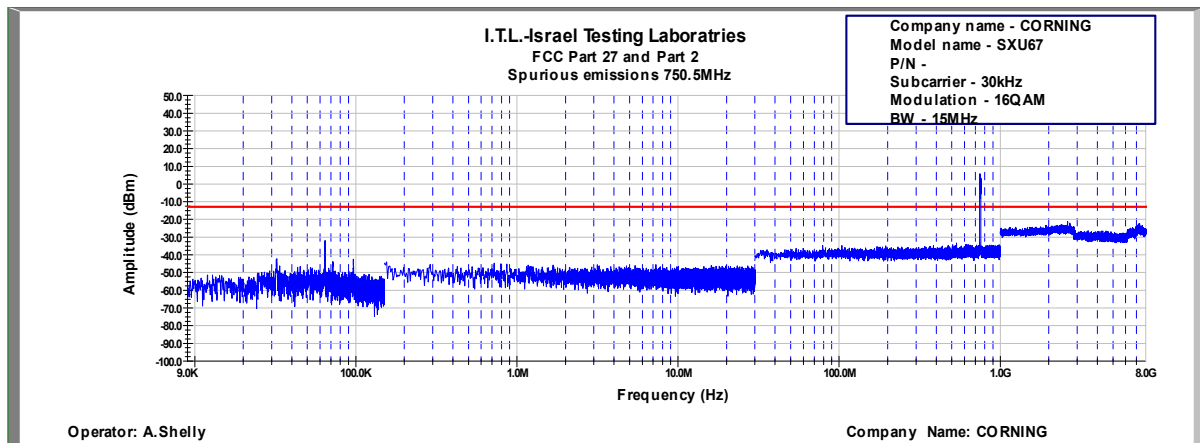
**Figure 639: Spurious Emissions at Antenna Terminal 16QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**



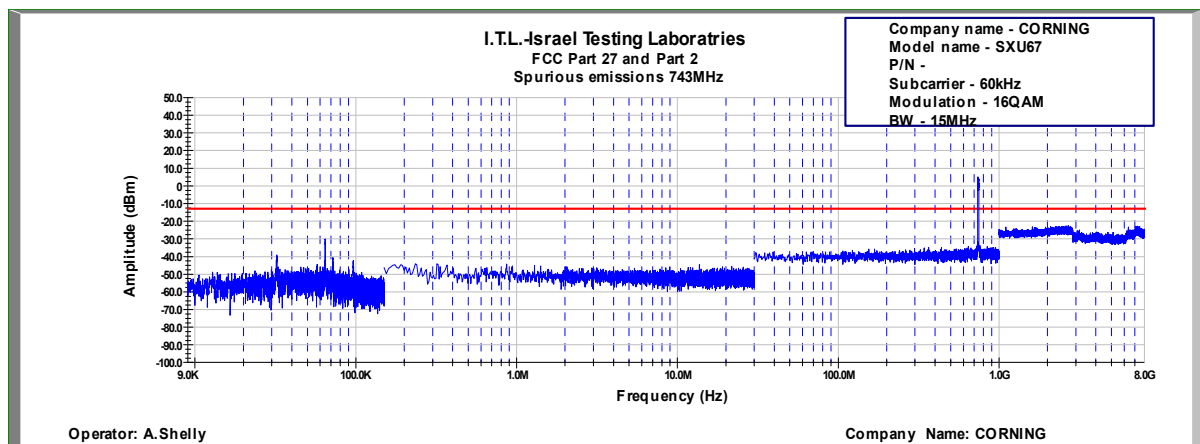
**Figure 640: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 30kHz**



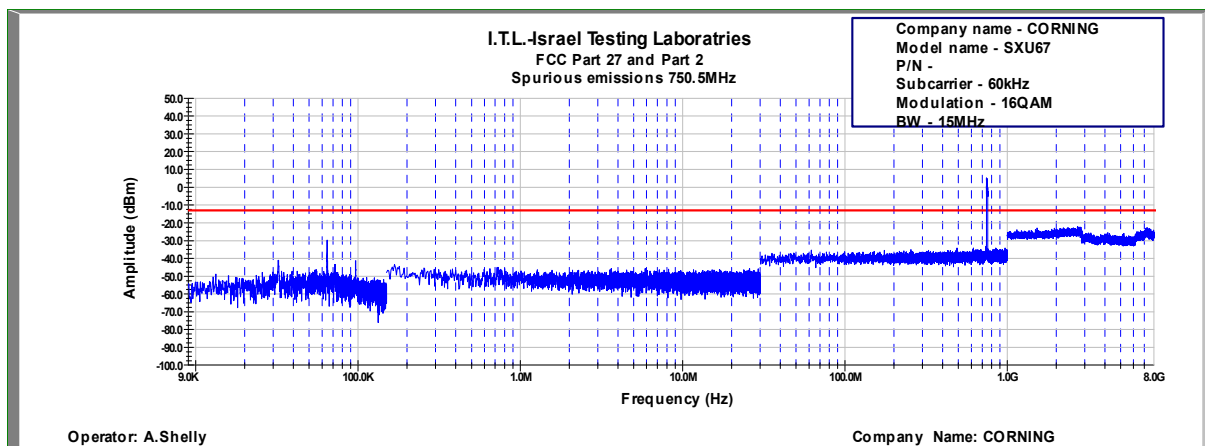
**Figure 641: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**



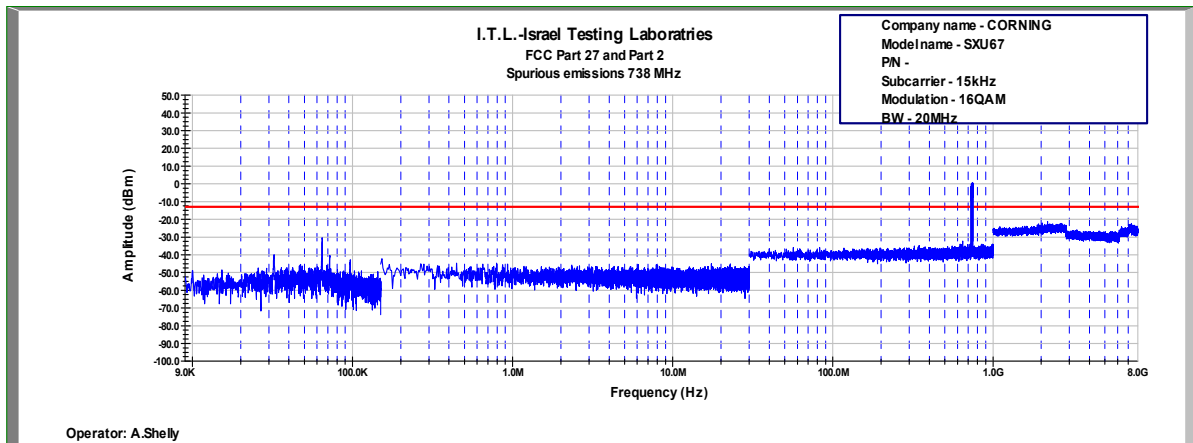
**Figure 642: Spurious Emissions at Antenna Terminal 16QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**



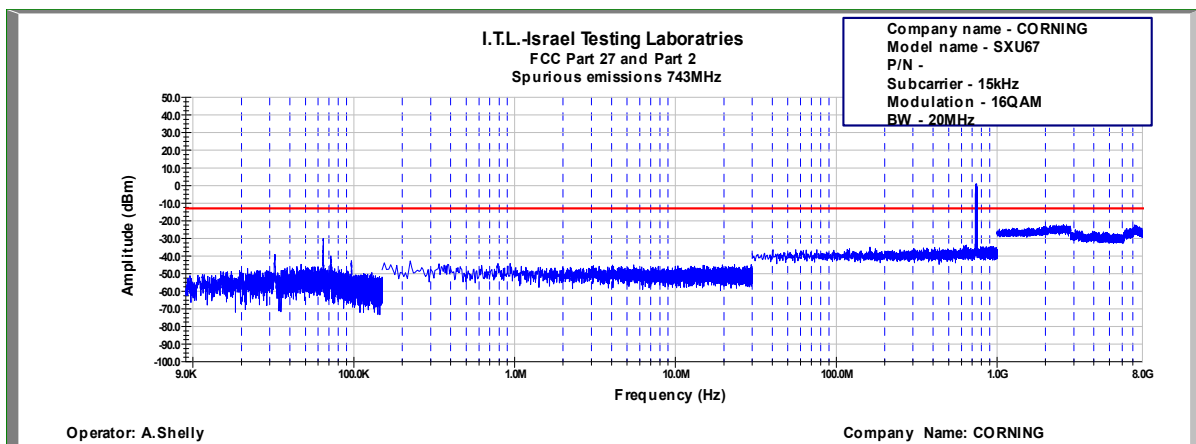
**Figure 643: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 60kHz**



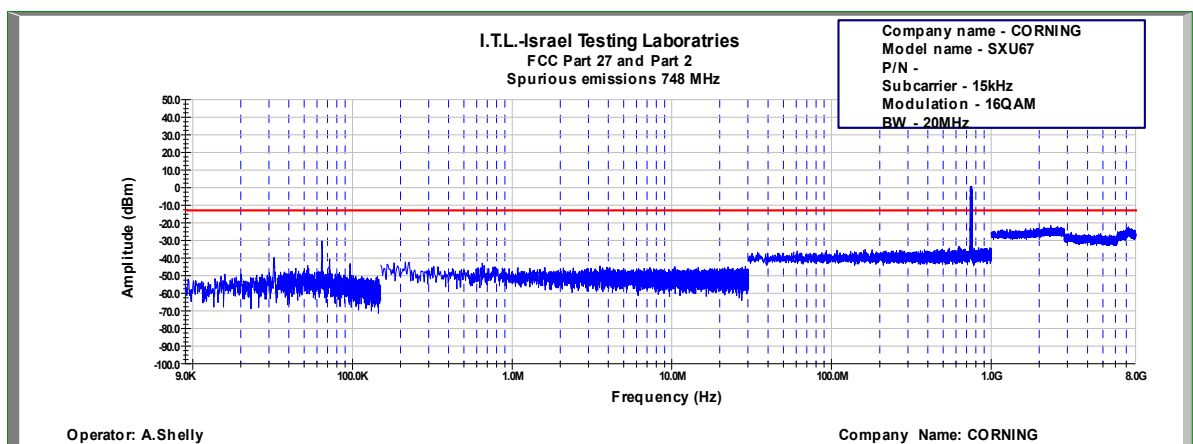
**Figure 644: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**



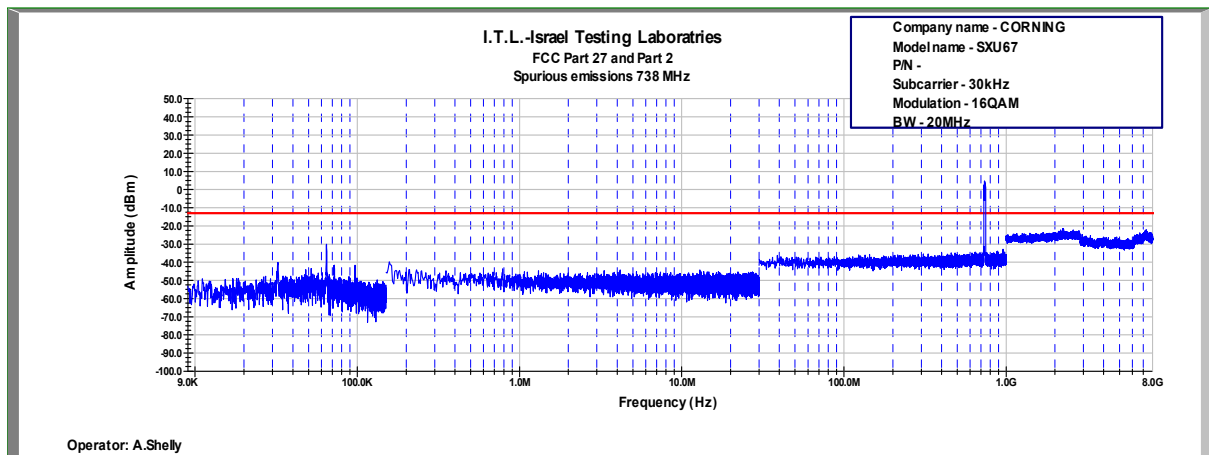
**Figure 645: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



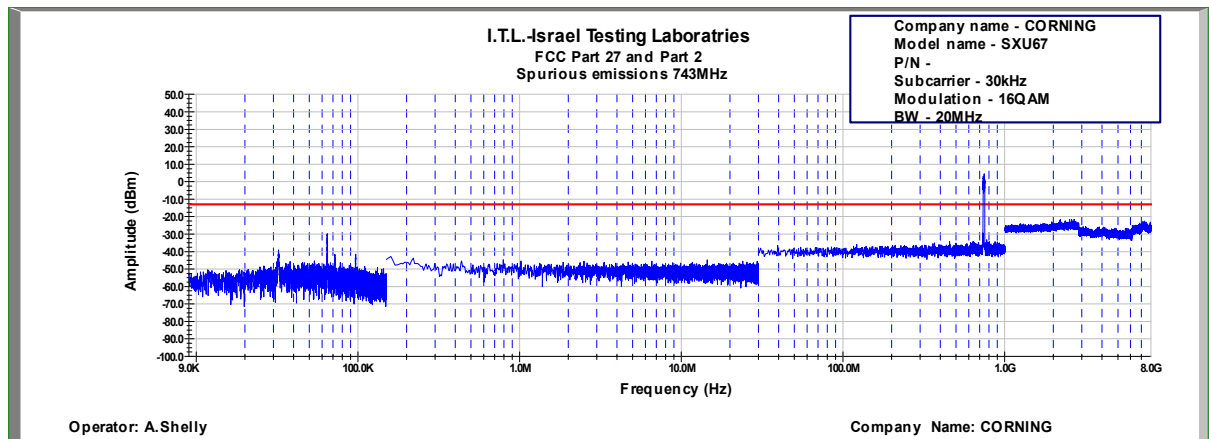
**Figure 646: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



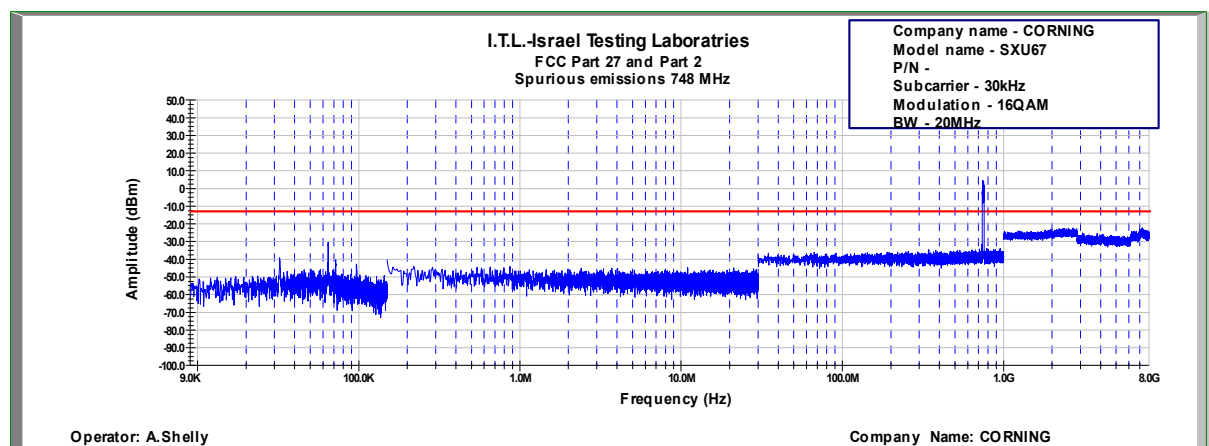
**Figure 647: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



**Figure 648: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



**Figure 649: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



**Figure 650: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**

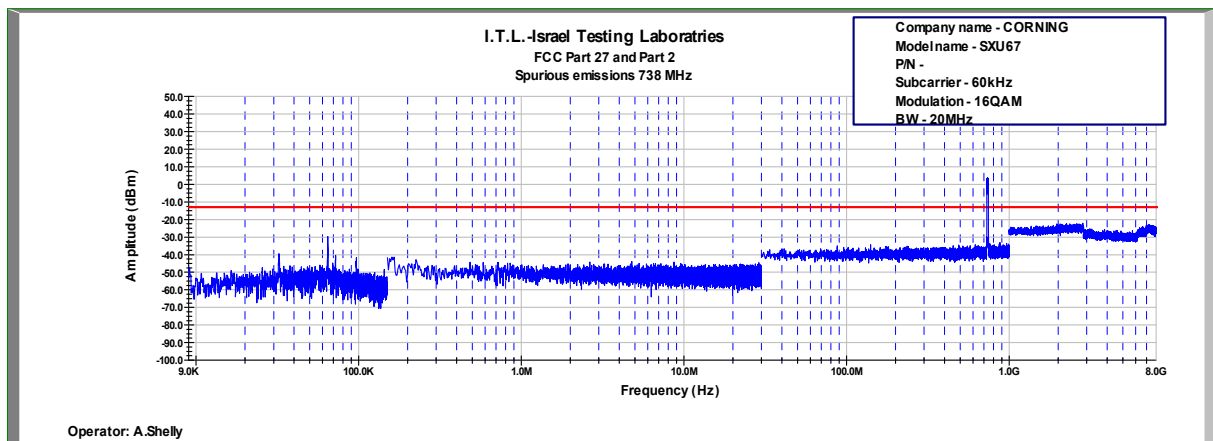


Figure 651: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 60kHz

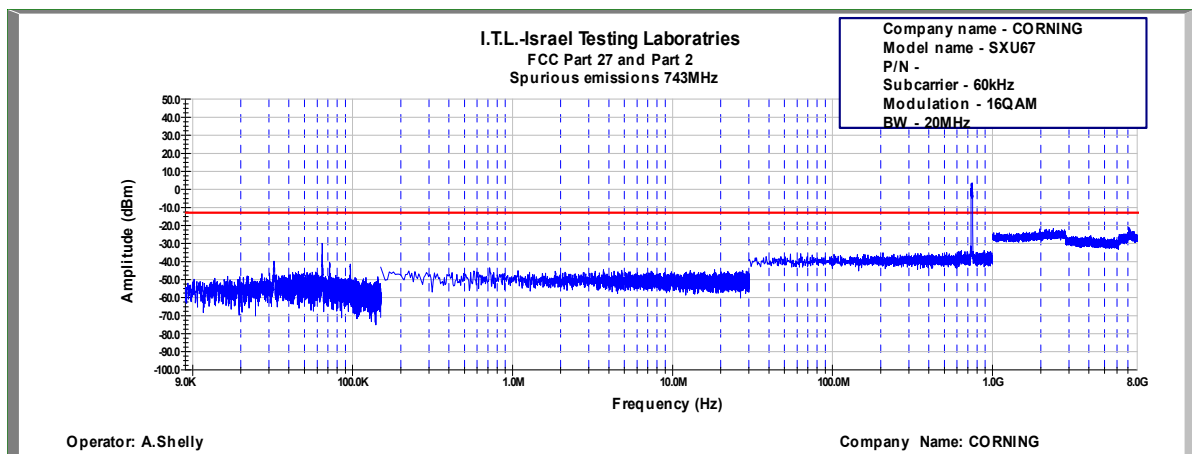


Figure 652: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 60kHz

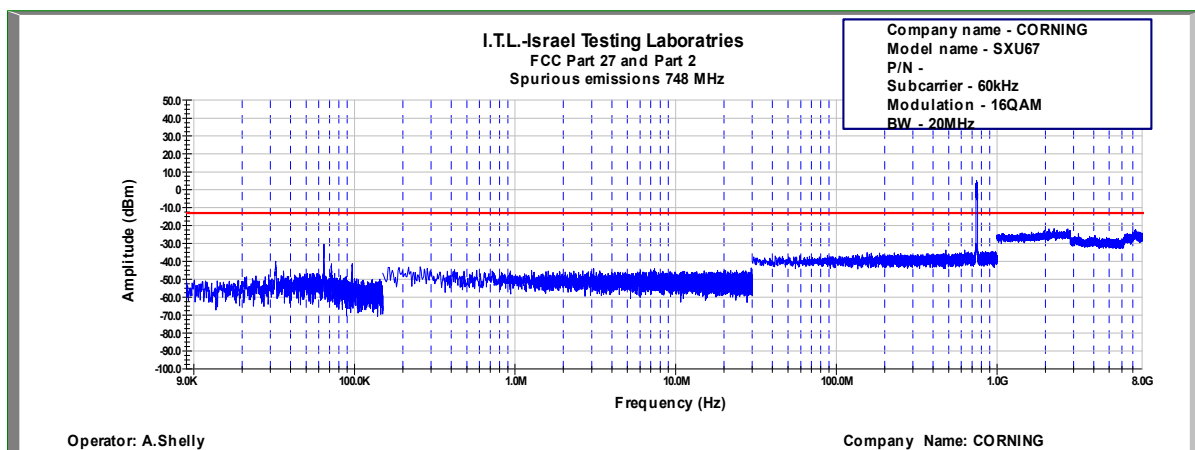
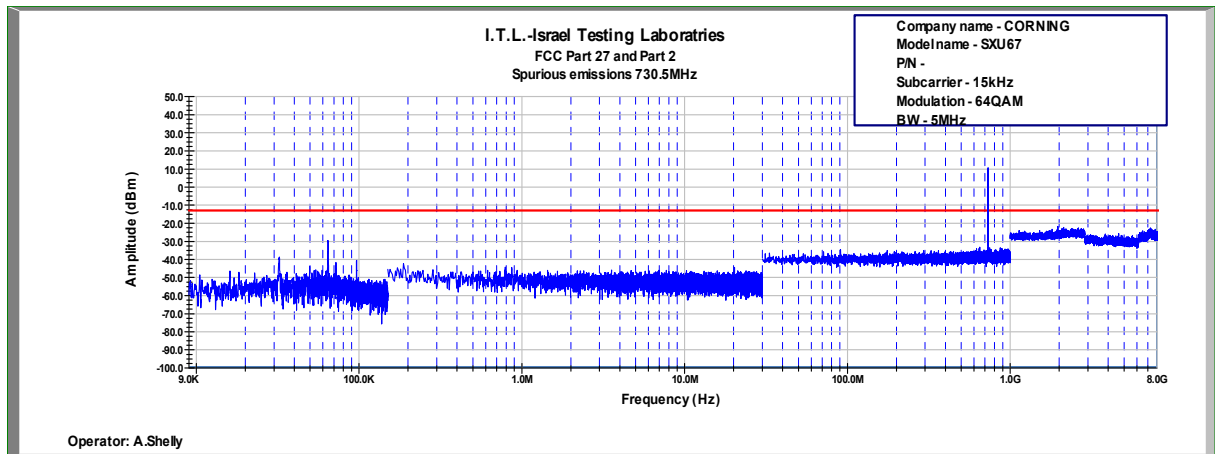
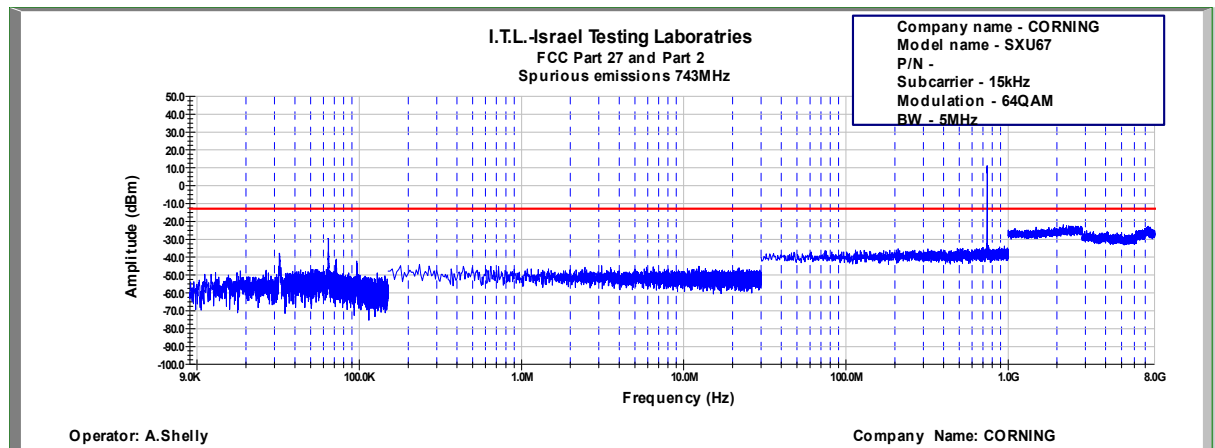


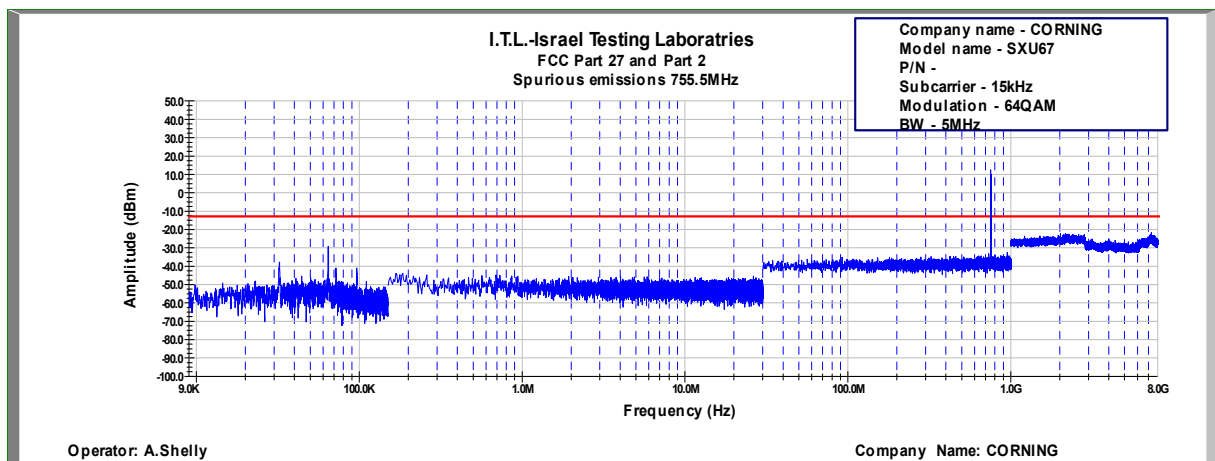
Figure 653: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 60kHz



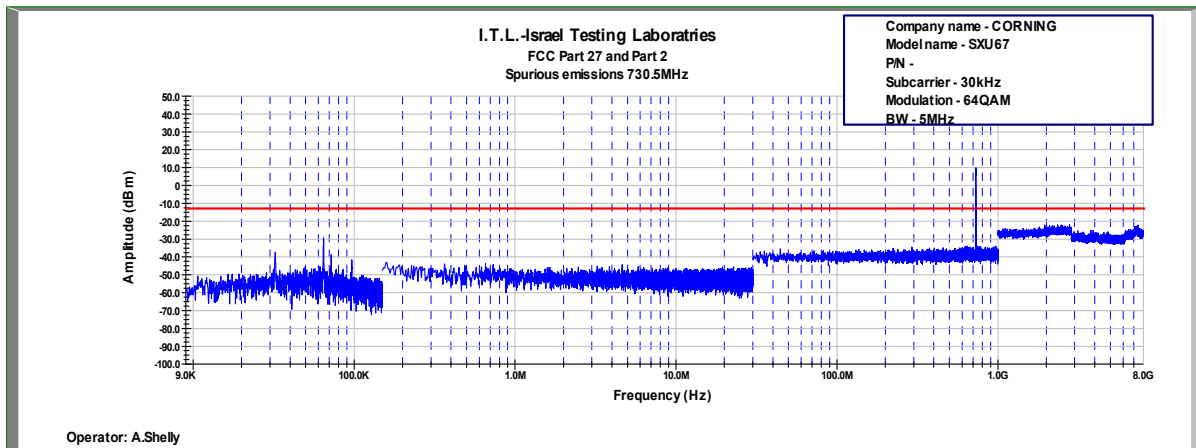
**Figure 654: Spurious Emissions at Antenna Terminal 64QAM, 730.5MHz,
B.W. 5MHz, Sub Carrier 15kHz**



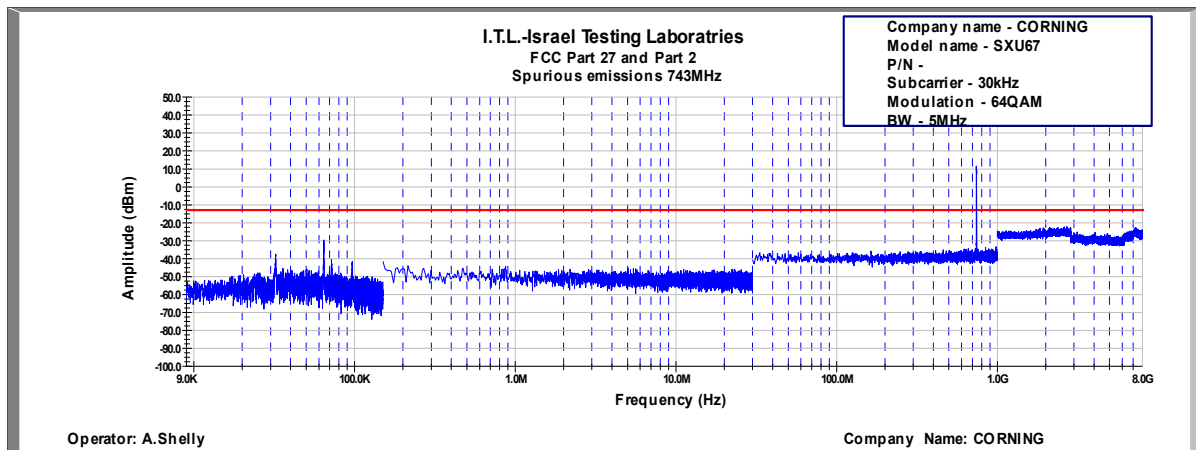
**Figure 655: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 5MHz, Sub Carrier 15kHz**



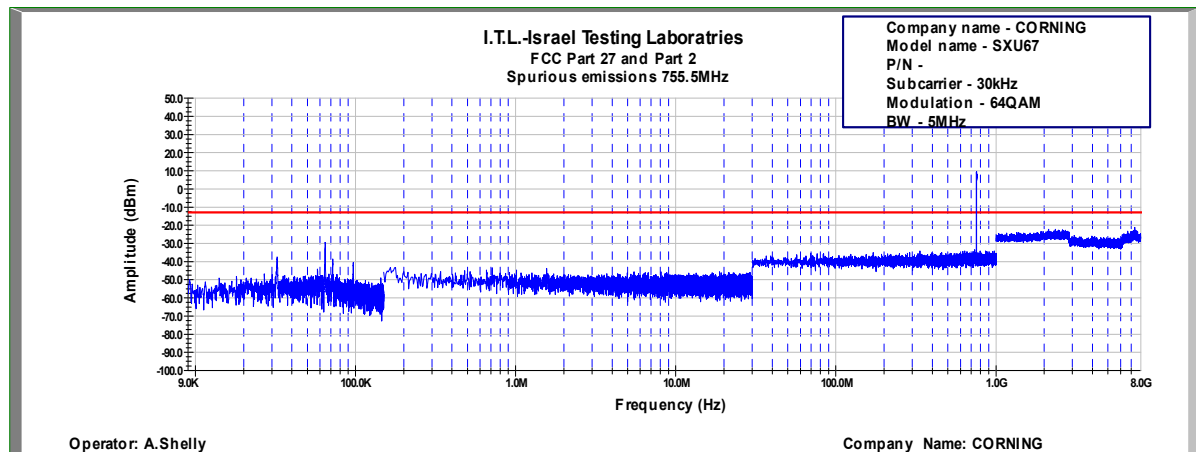
**Figure 656: Spurious Emissions at Antenna Terminal 64QAM, 755.5MHz,
B.W. 5MHz, Sub Carrier 15kHz**



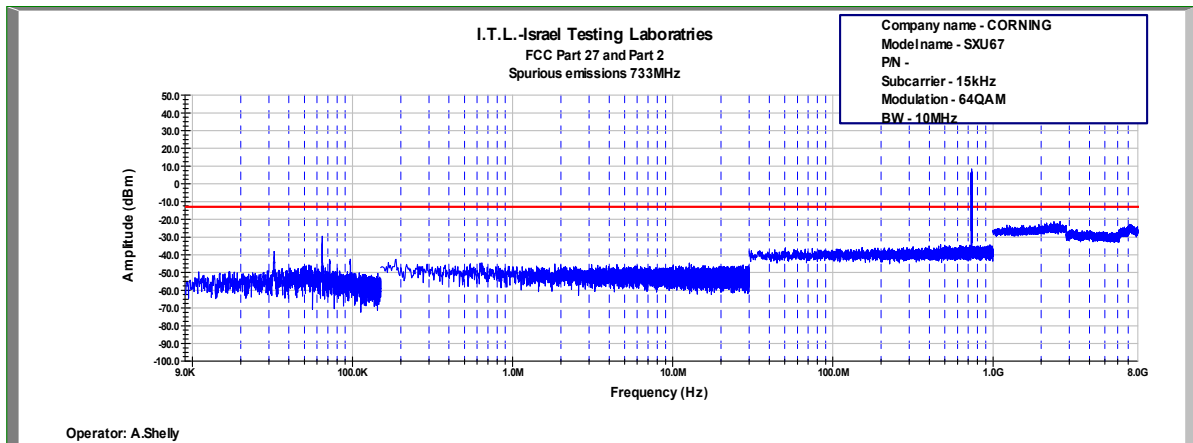
**Figure 657: Spurious Emissions at Antenna Terminal 64QAM, 730.5MHz,
B.W. 5MHz, Sub Carrier 30kHz**



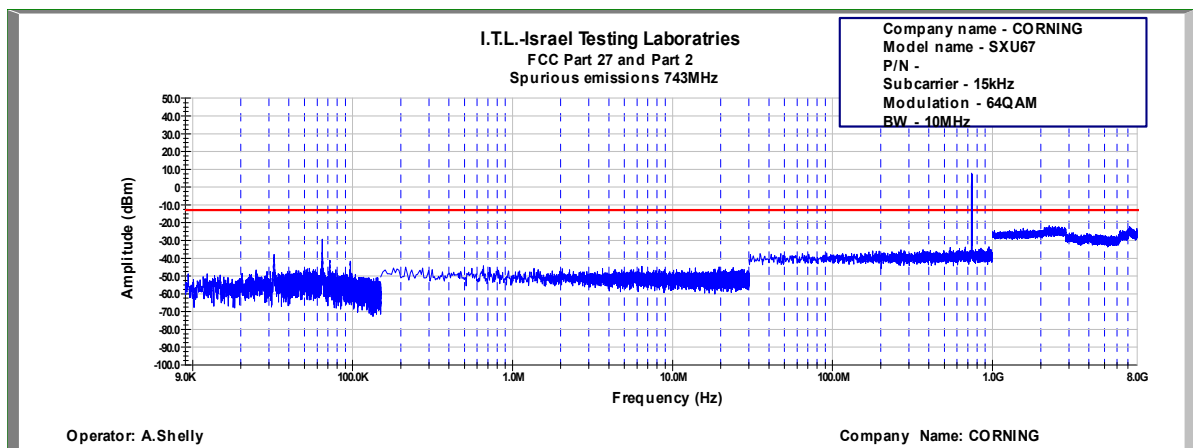
**Figure 658: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 5MHz, Sub Carrier 30kHz**



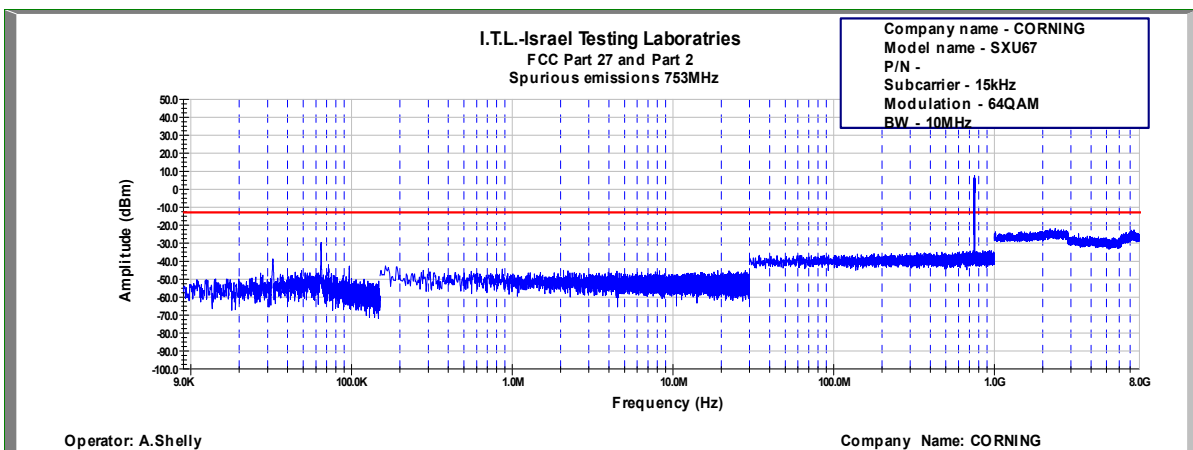
**Figure 659: Spurious Emissions at Antenna Terminal 64QAM, 755.5MHz,
B.W. 5MHz, Sub Carrier 30kHz**



**Figure 660: Spurious Emissions at Antenna Terminal 64QAM, 733.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



**Figure 661: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



**Figure 662: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**

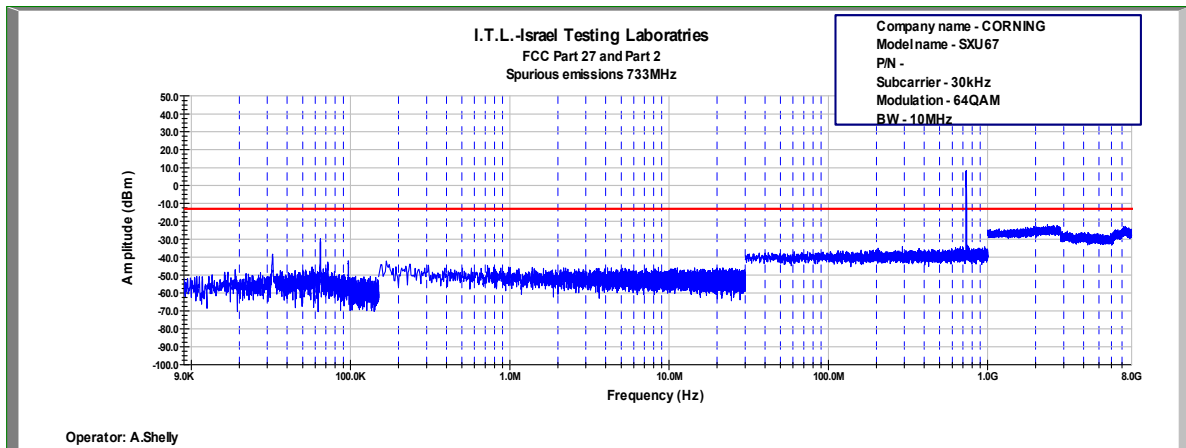


Figure 663: Spurious Emissions at Antenna Terminal 64QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 30kHz

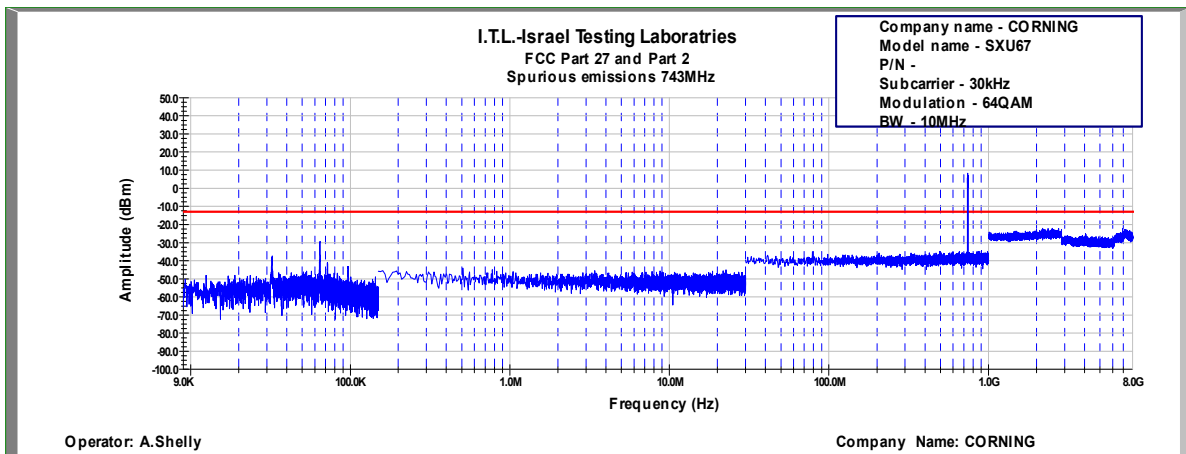


Figure 664: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 30kHz

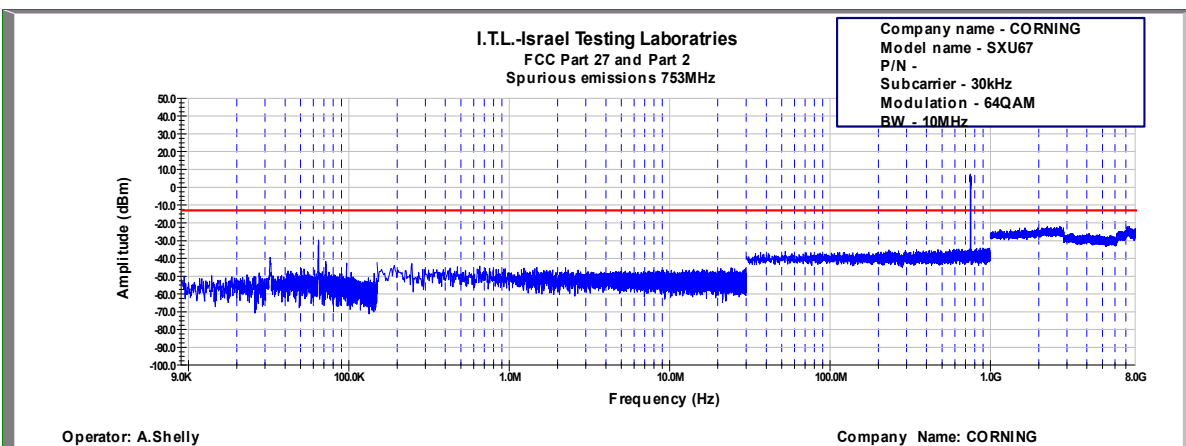
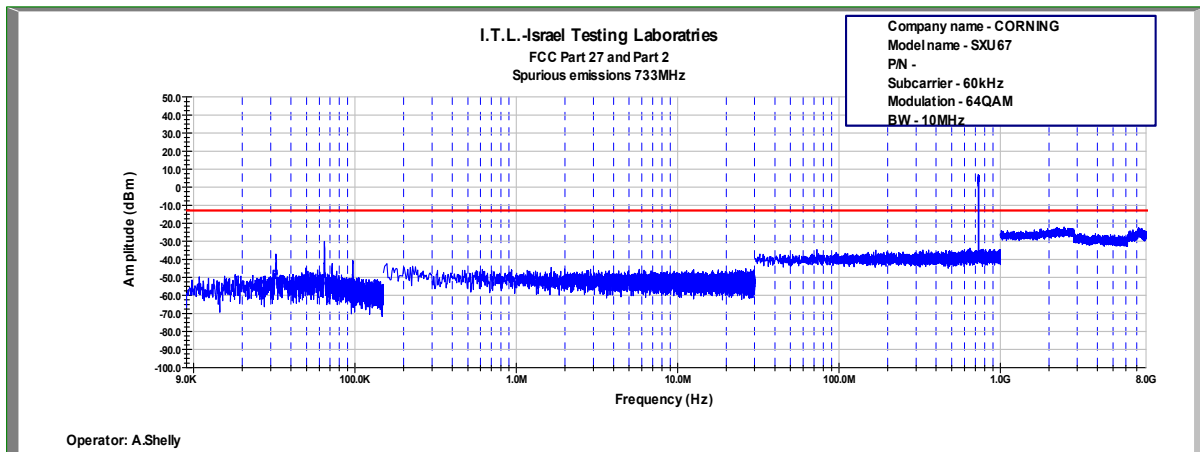
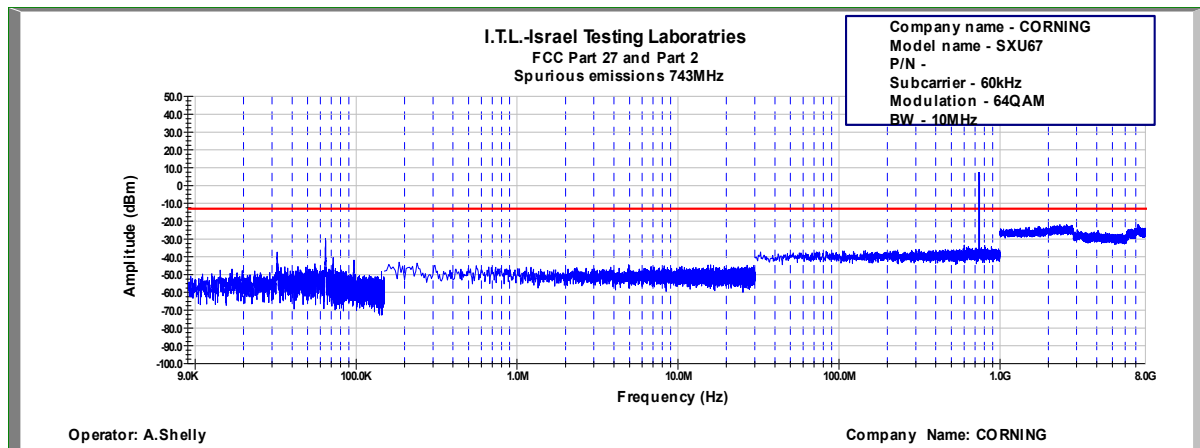


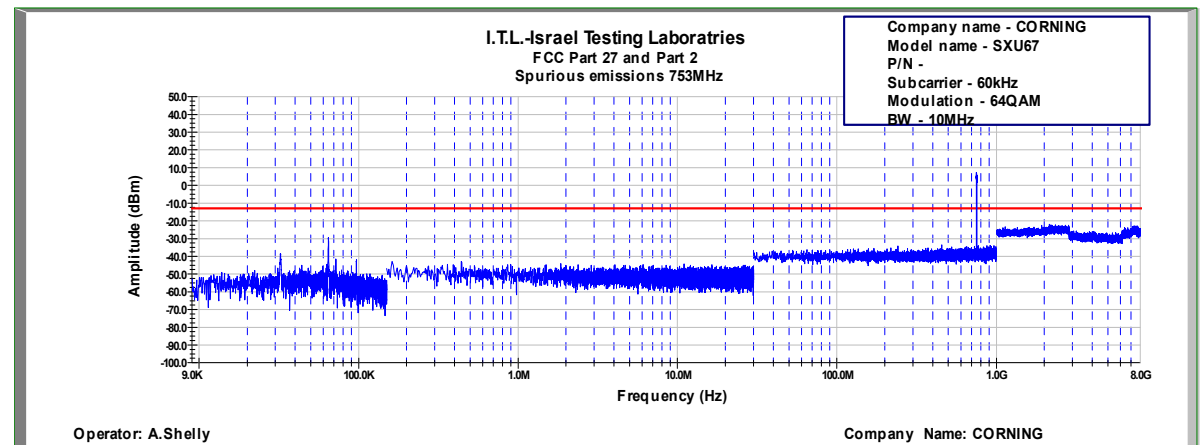
Figure 665: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 30kHz



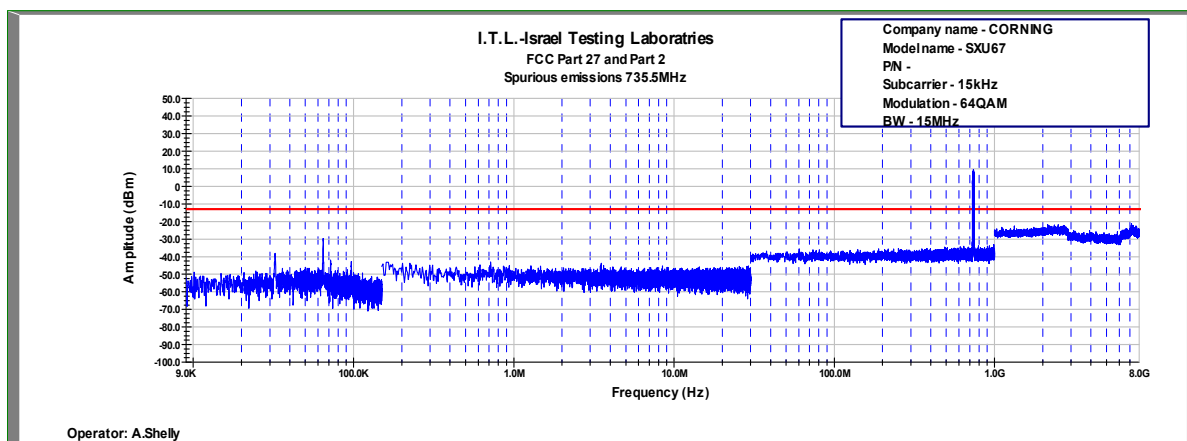
**Figure 666: Spurious Emissions at Antenna Terminal 64QAM, 733.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



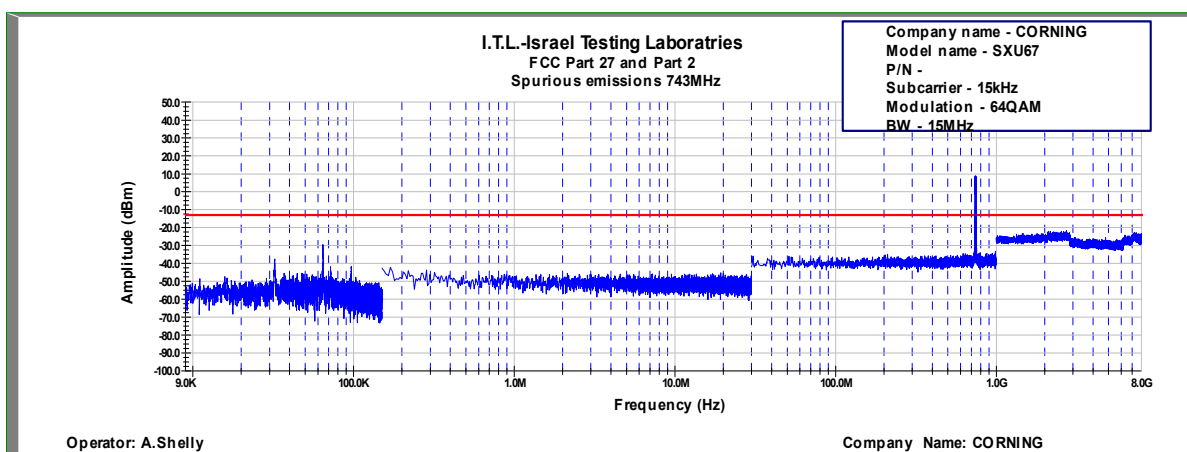
**Figure 667: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



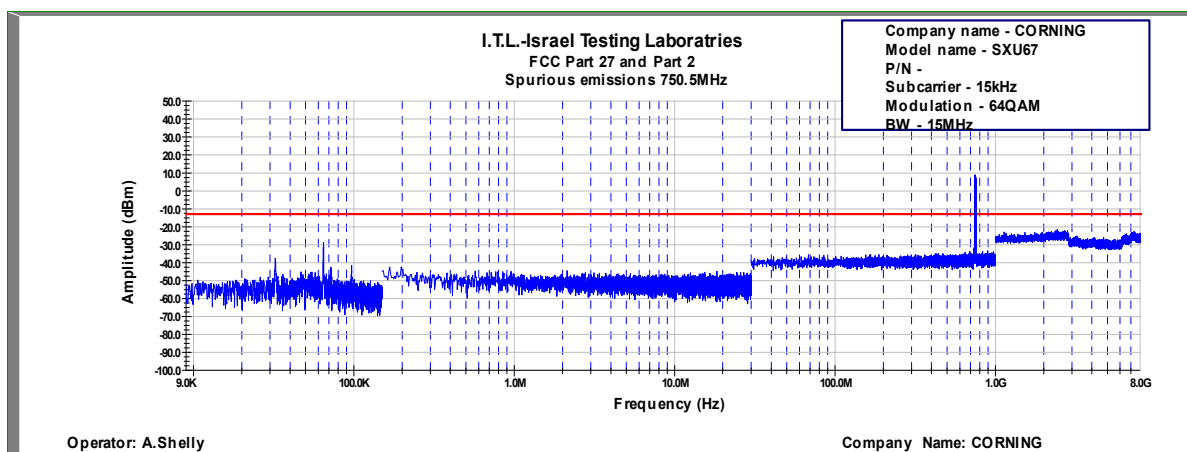
**Figure 668: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



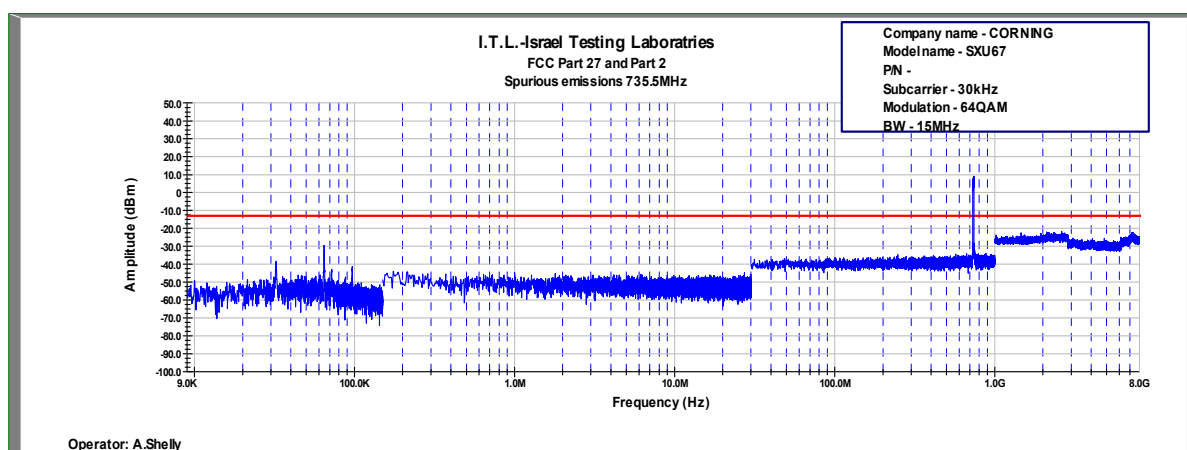
**Figure 669: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 15kHz**



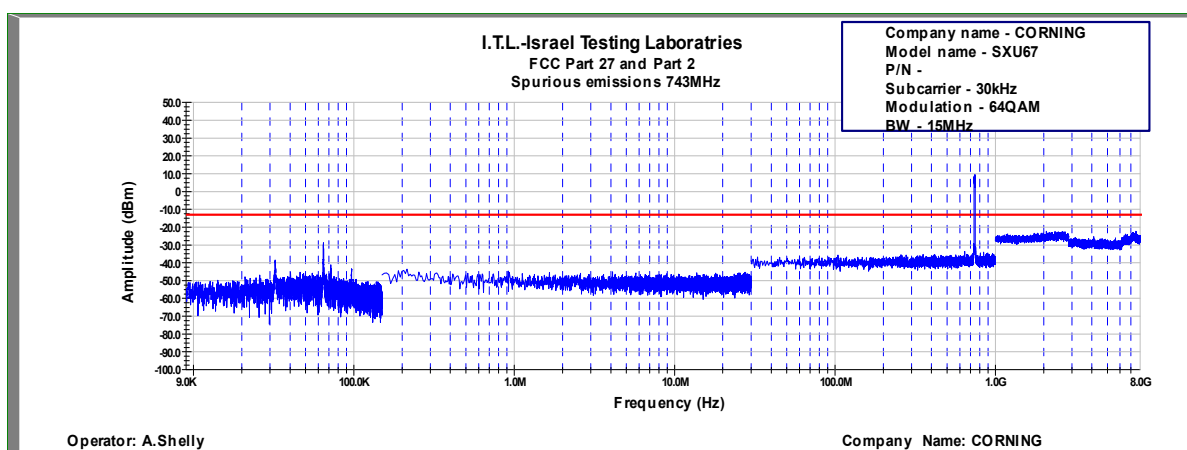
**Figure 670: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 15kHz**



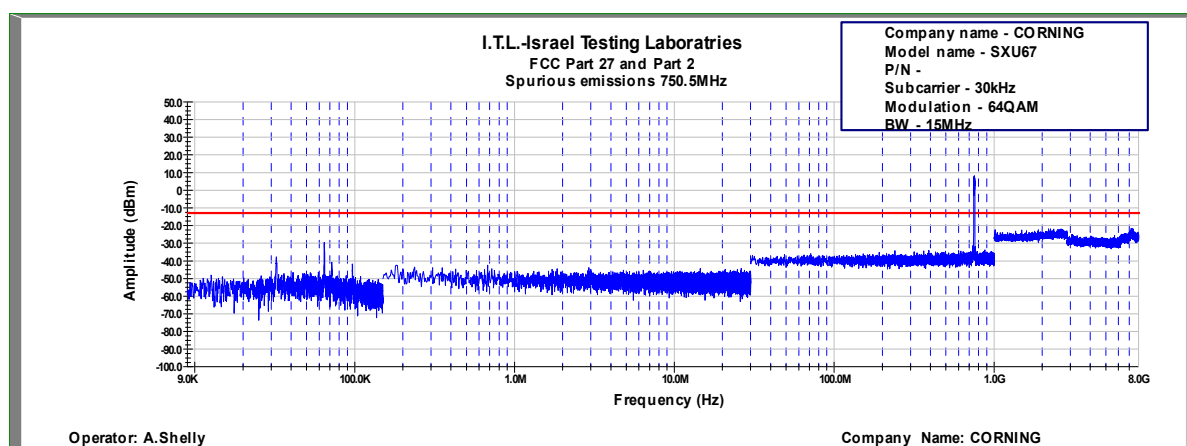
**Figure 671: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 15kHz**



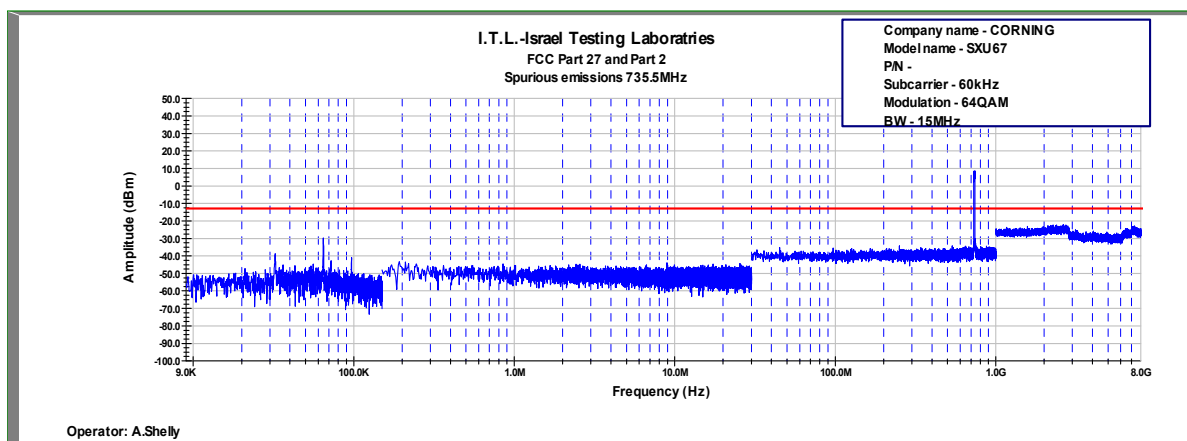
**Figure 672: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**



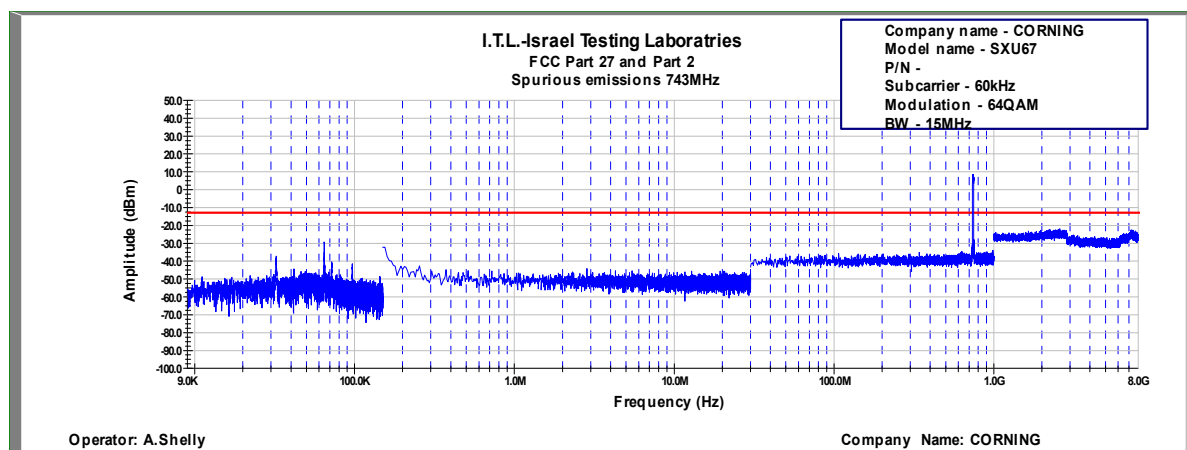
**Figure 673: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 30kHz**



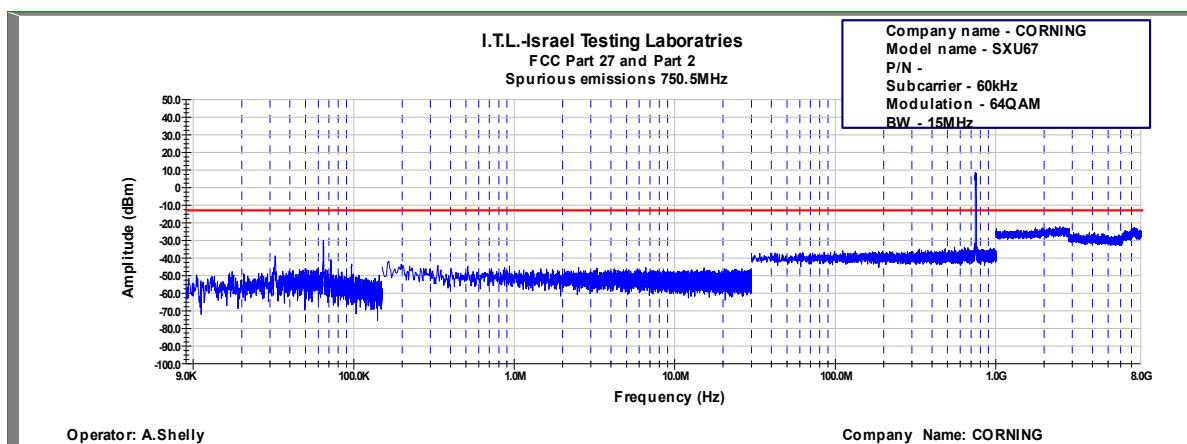
**Figure 674: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**



**Figure 675: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**



**Figure 676: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 15MHz, Sub Carrier 60kHz**



**Figure 677: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**

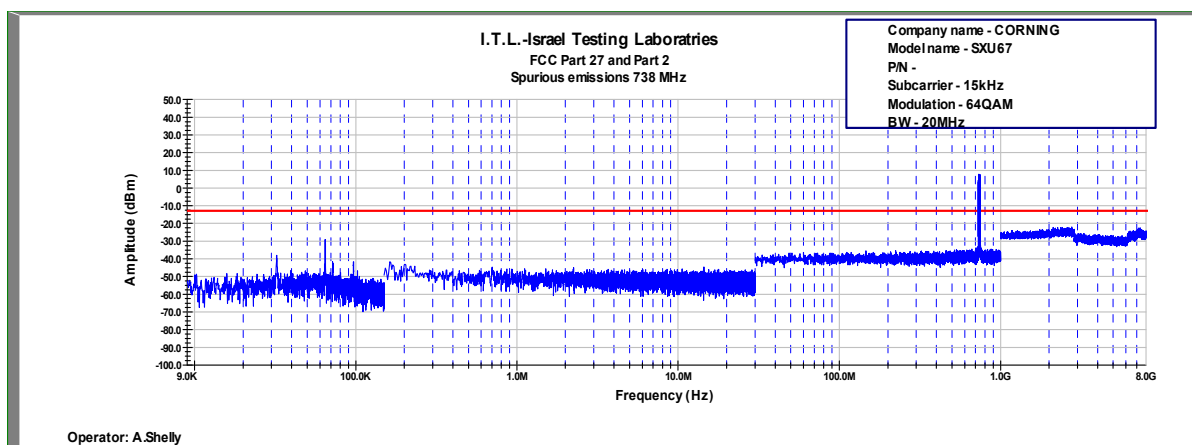


Figure 678: Spurious Emissions at Antenna Terminal 64QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 15kHz

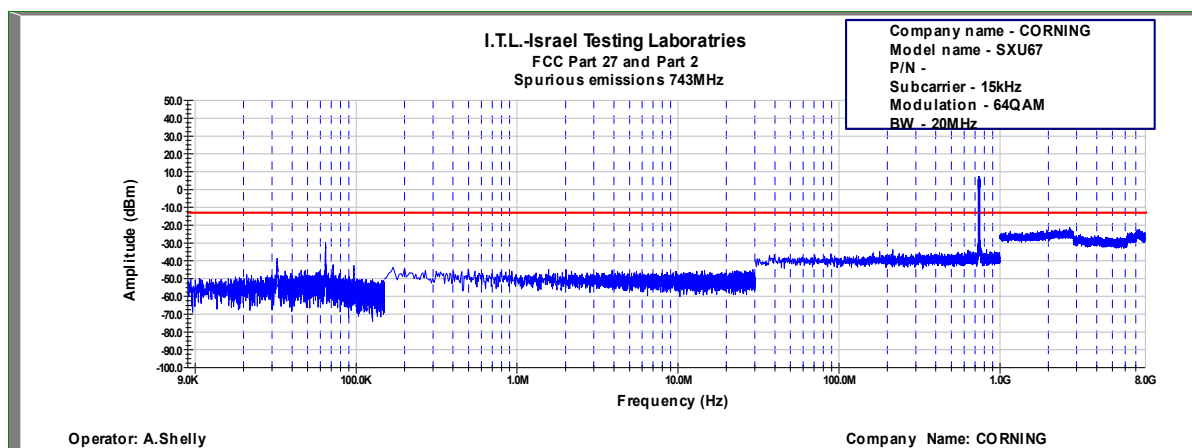


Figure 679: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 15kHz

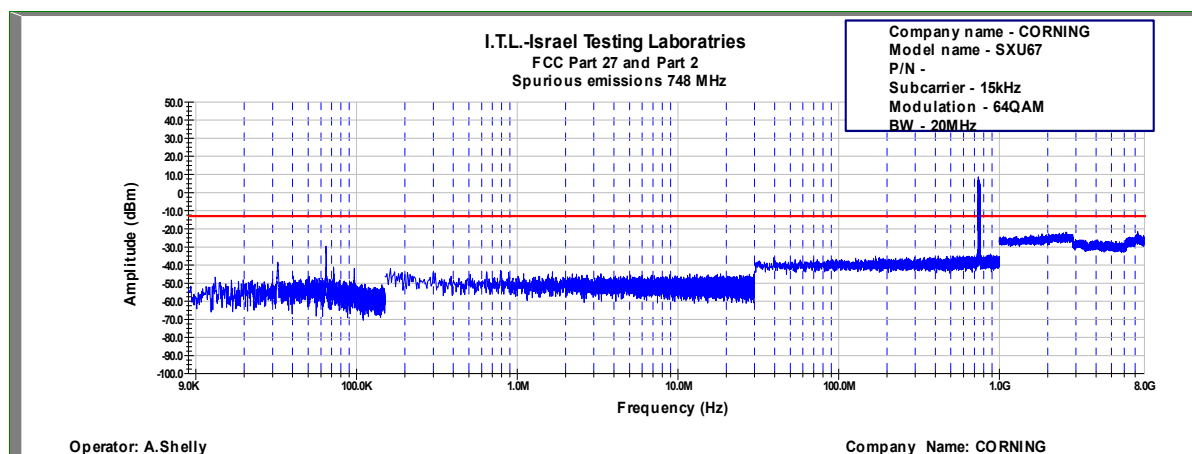
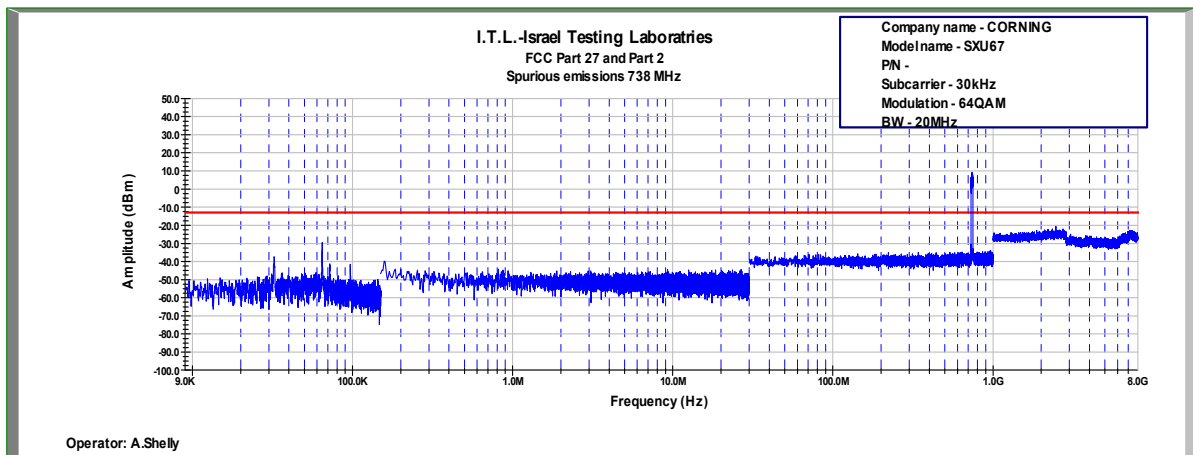
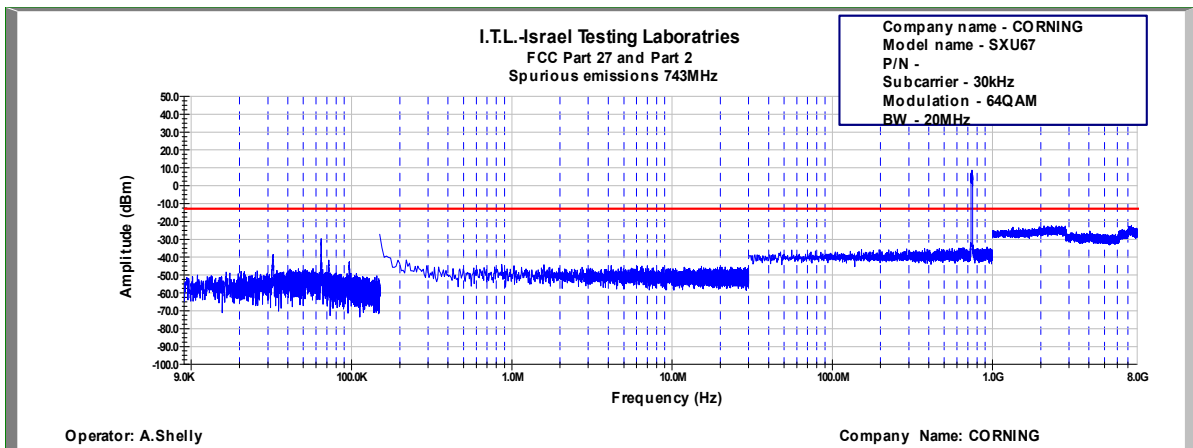


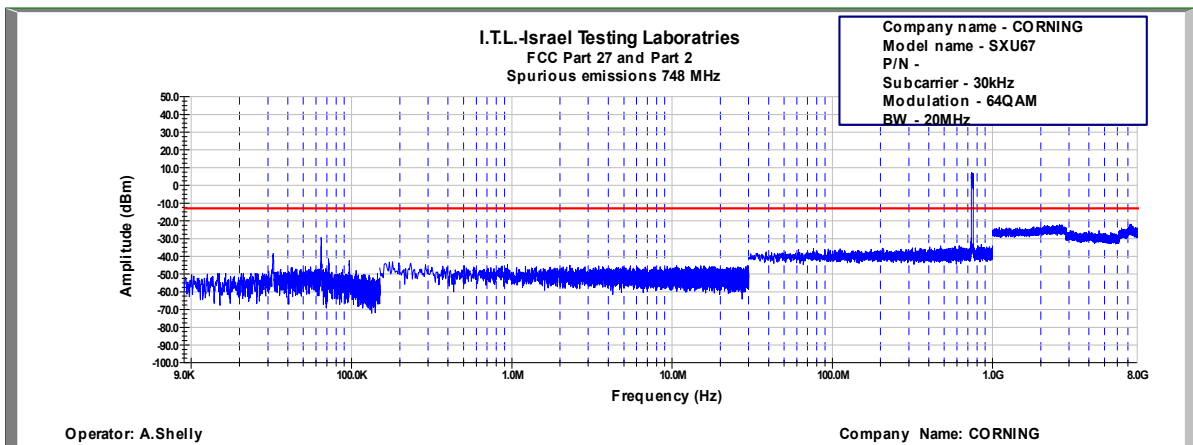
Figure 680: Spurious Emissions at Antenna Terminal 64QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 15kHz



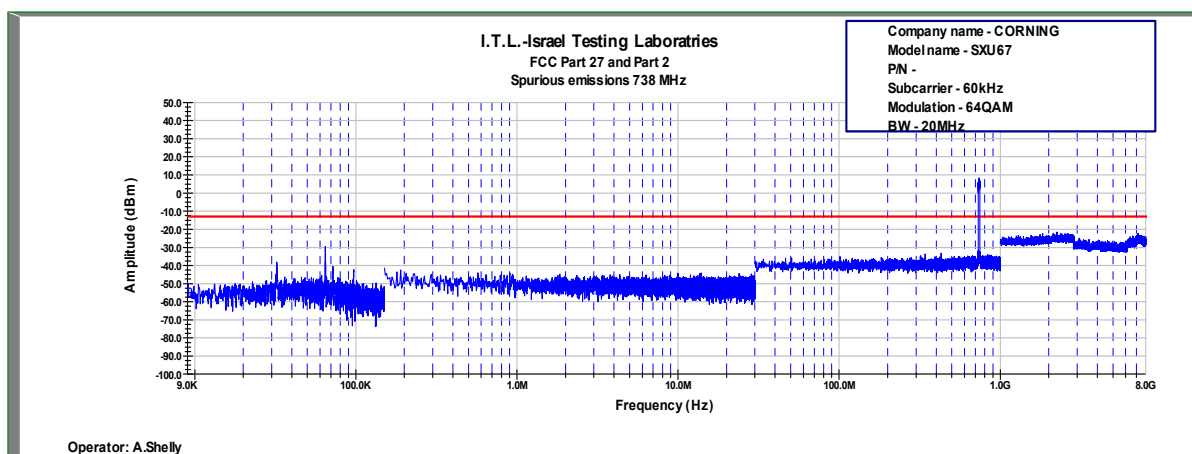
**Figure 681: Spurious Emissions at Antenna Terminal 64QAM, 738.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



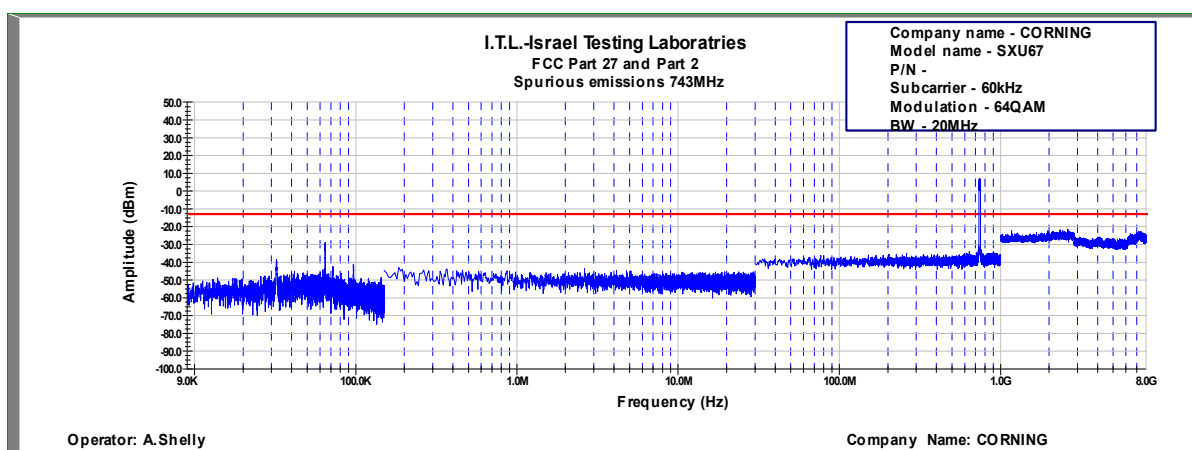
**Figure 682: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



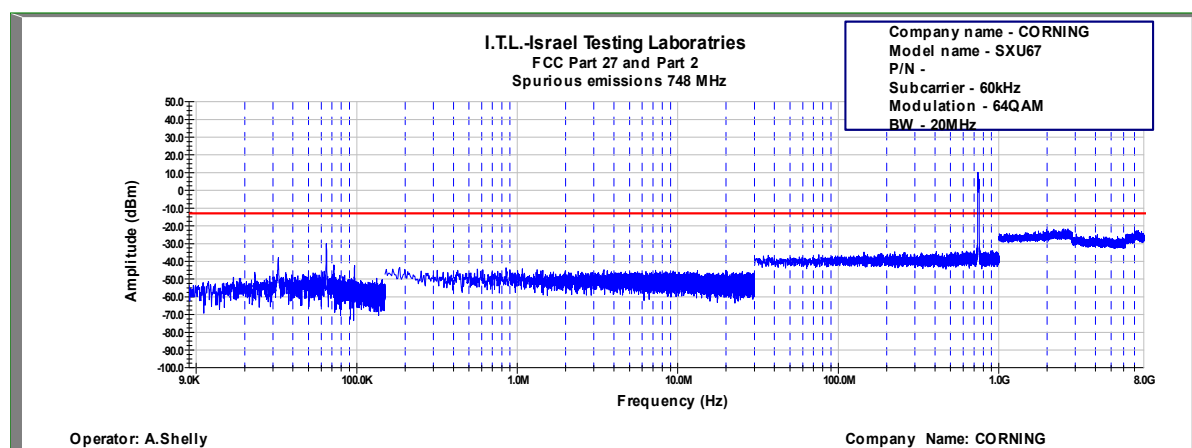
**Figure 683: Spurious Emissions at Antenna Terminal 64QAM, 748.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



**Figure 684: Spurious Emissions at Antenna Terminal 64QAM, 738.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**



**Figure 685: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**



**Figure 686: Spurious Emissions at Antenna Terminal 64QAM, 748.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**