

## 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).

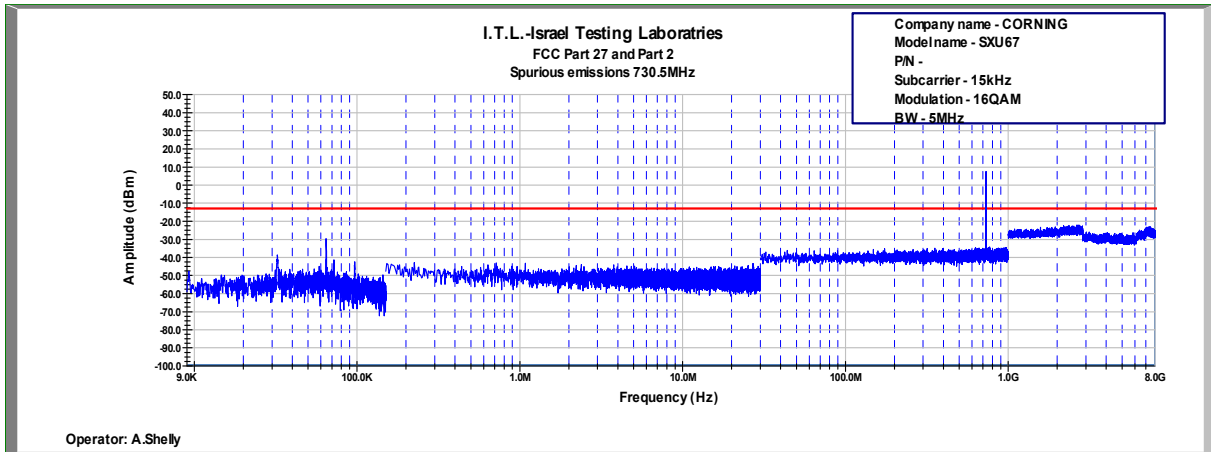
### 8.3 Test Limit

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.

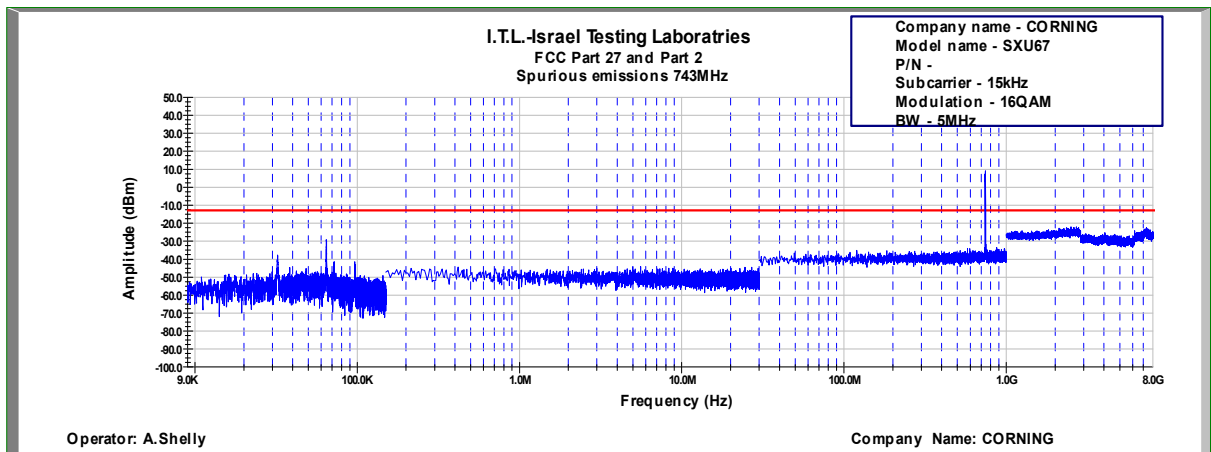
### 8.4 Test Results

JUDGEMENT: Passed

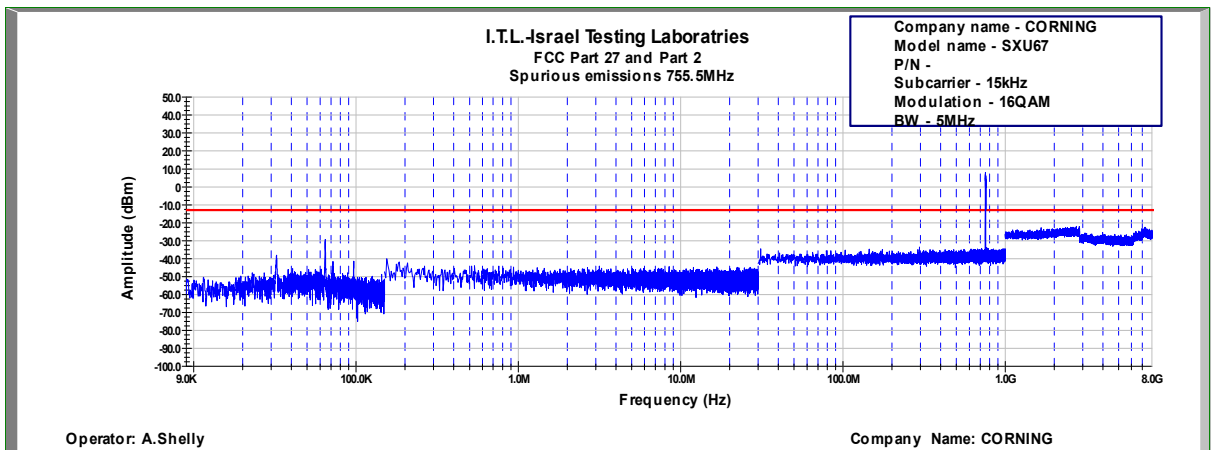
See additional information in Figure 621 to Figure 752.



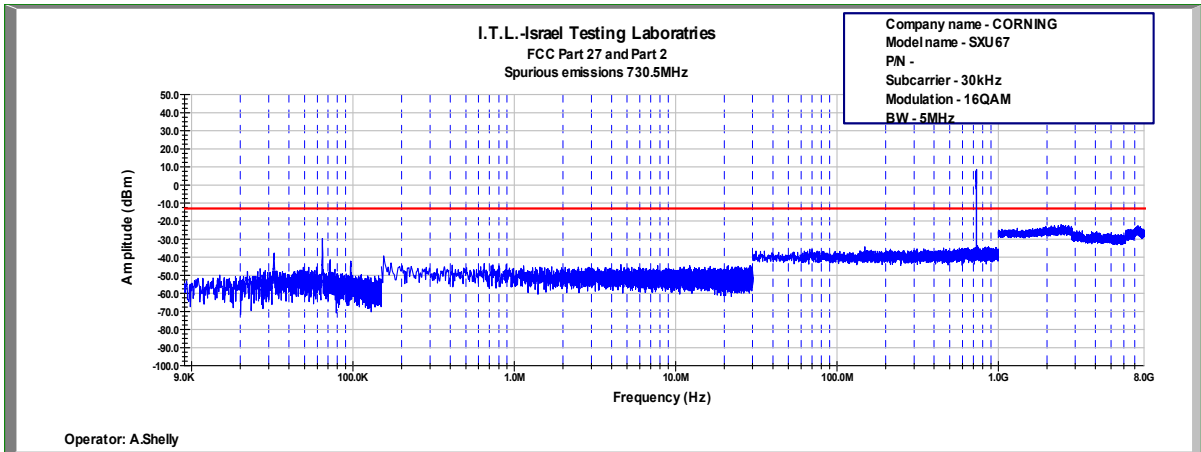
**Figure 621: Spurious Emissions at Antenna Terminal 16QAM, 730.5MHz, B.W. 5MHz, Sub Carrier 15kHz**



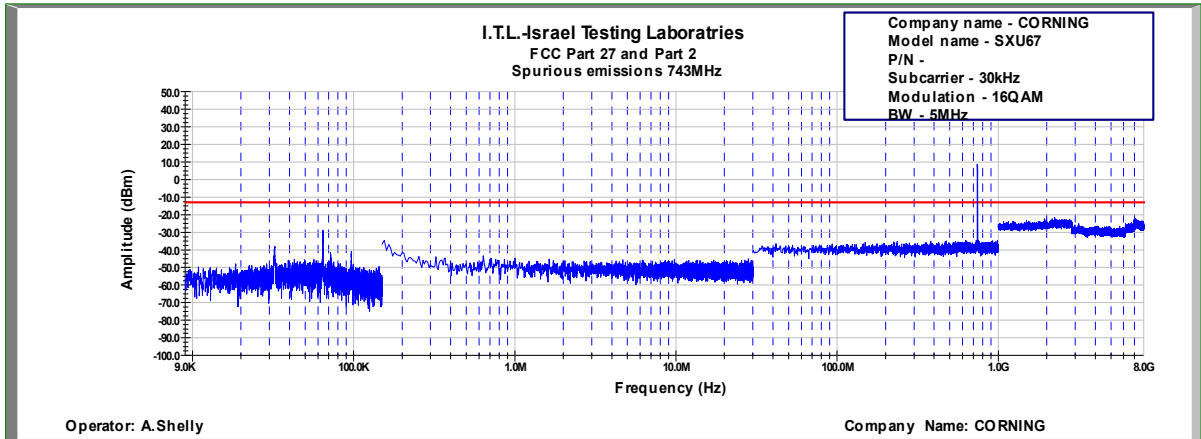
**Figure 622: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 5MHz, Sub Carrier 15kHz**



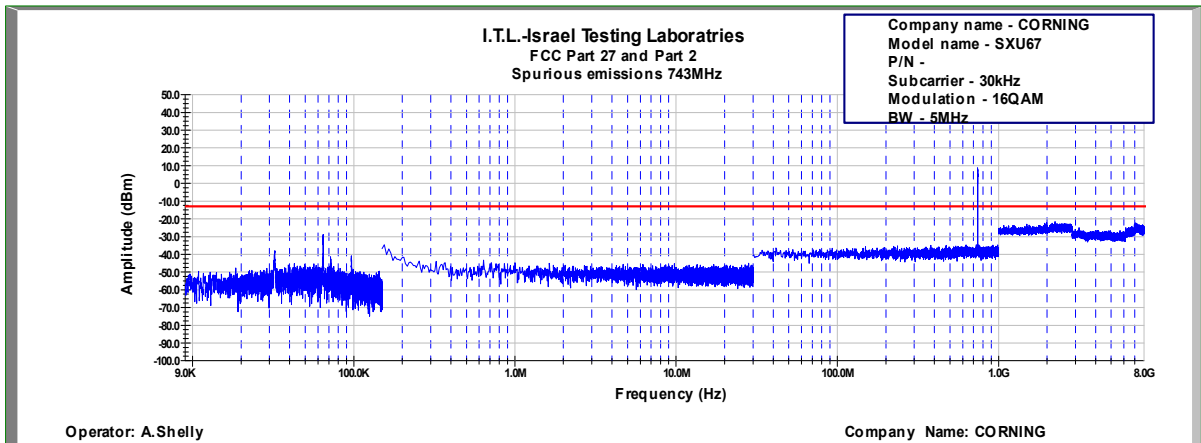
**Figure 623: Spurious Emissions at Antenna Terminal 16QAM, 755.5MHz, B.W. 5MHz, Sub Carrier 15kHz**



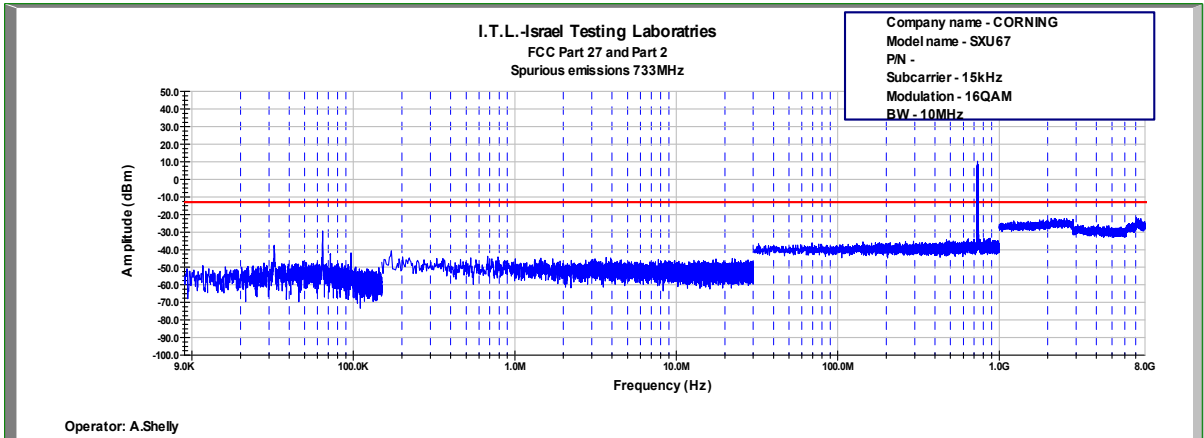
**Figure 624: Spurious Emissions at Antenna Terminal 16QAM, 730.5MHz, B.W. 5MHz, Sub Carrier 30kHz**



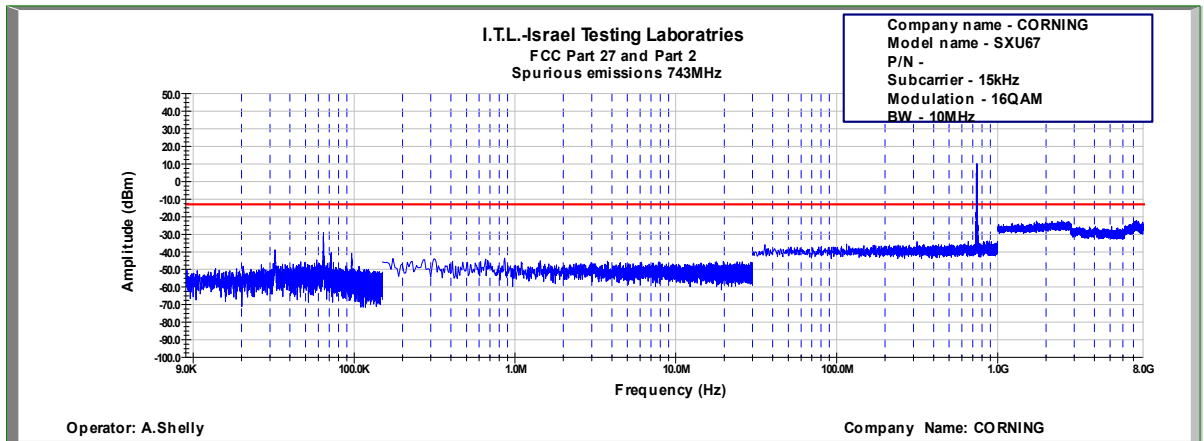
**Figure 625: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 5MHz, Sub Carrier 30kHz**



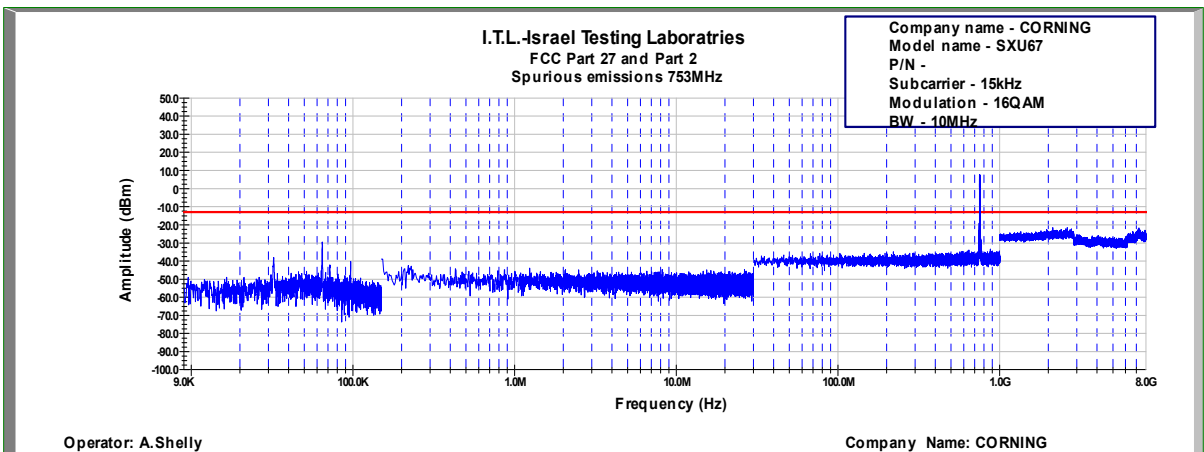
**Figure 626: Spurious Emissions at Antenna Terminal 16QAM, 755.5MHz, B.W. 5MHz, Sub Carrier 30kHz**



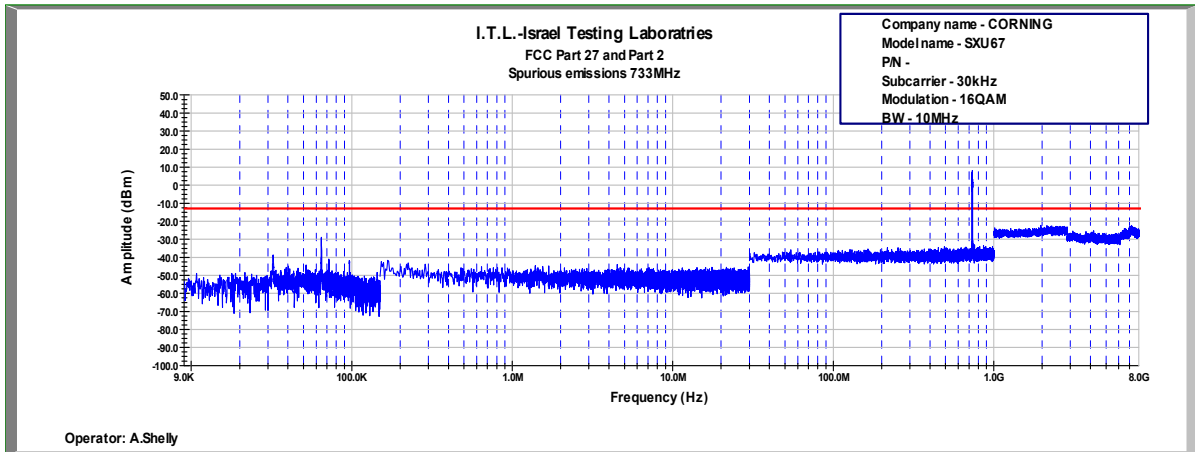
**Figure 627: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



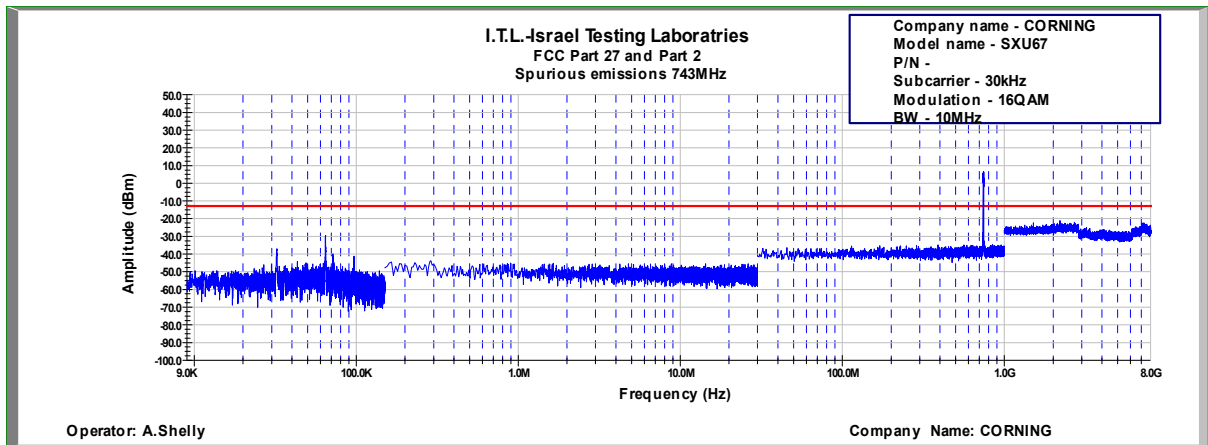
**Figure 628: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



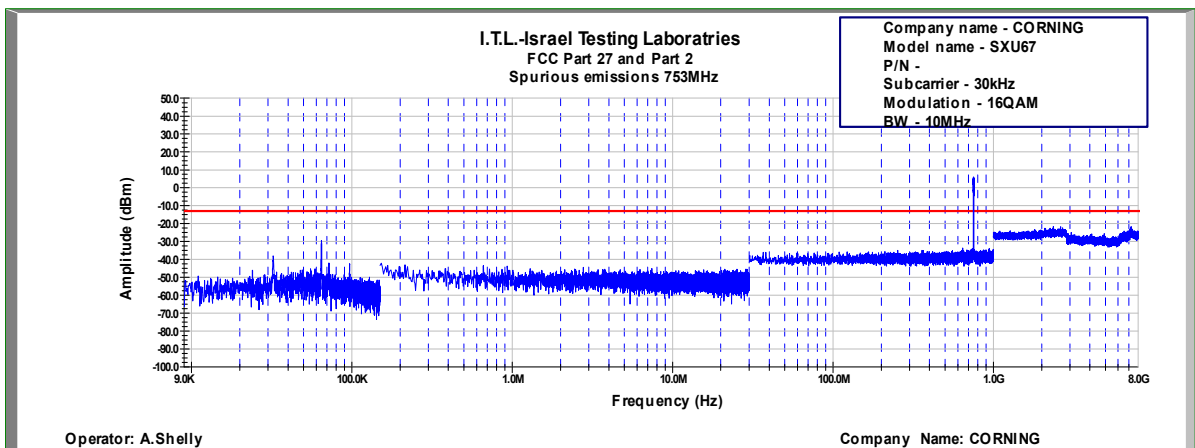
**Figure 629: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



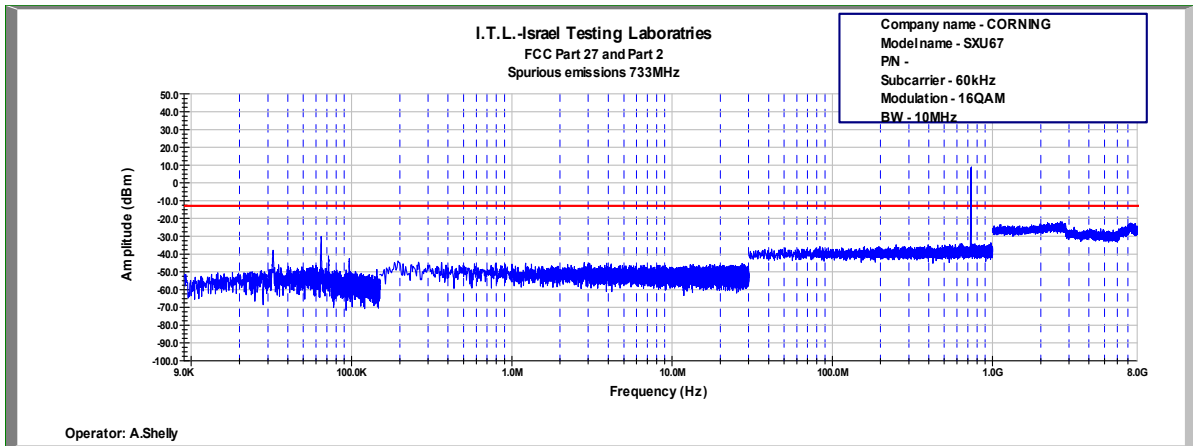
**Figure 630: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 30kHz**



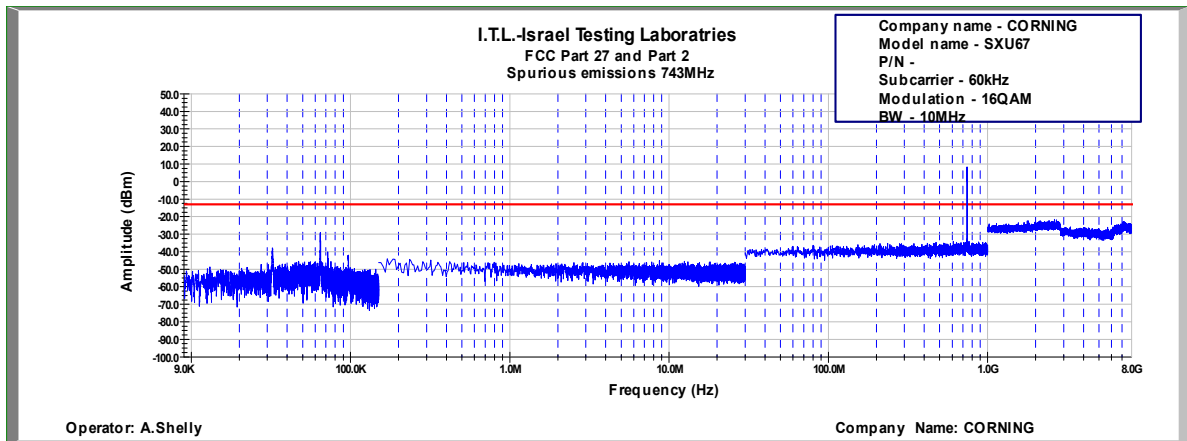
**Figure 631: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 30kHz**



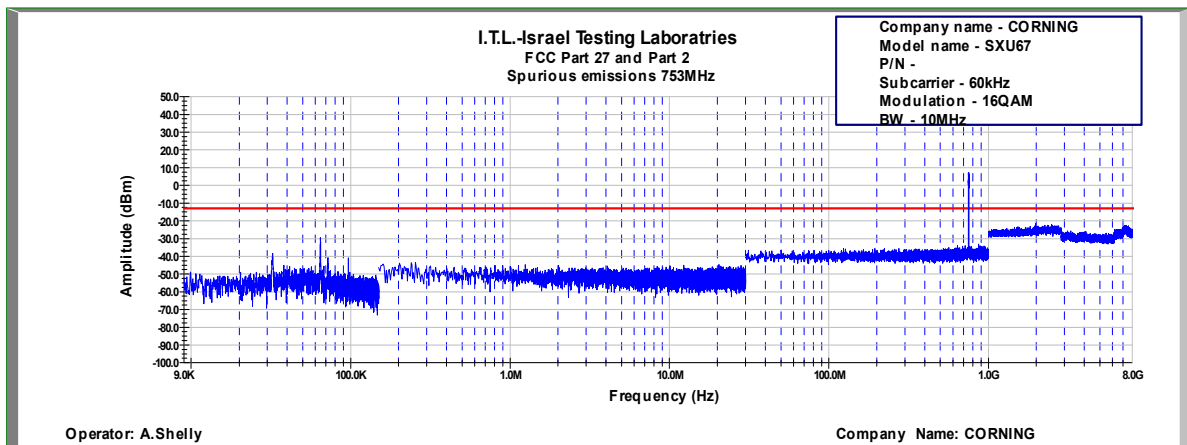
**Figure 632: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 30kHz**



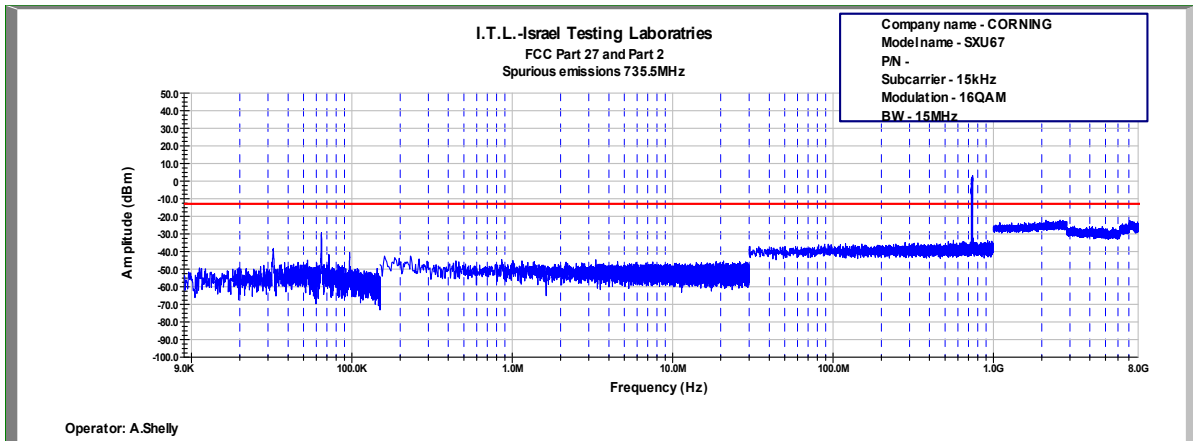
**Figure 633: Spurious Emissions at Antenna Terminal 16QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



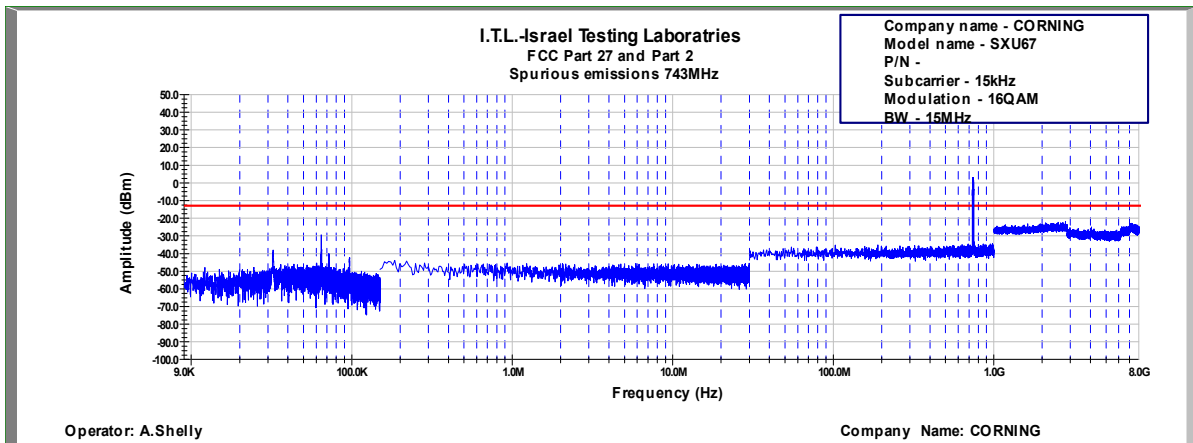
**Figure 634: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



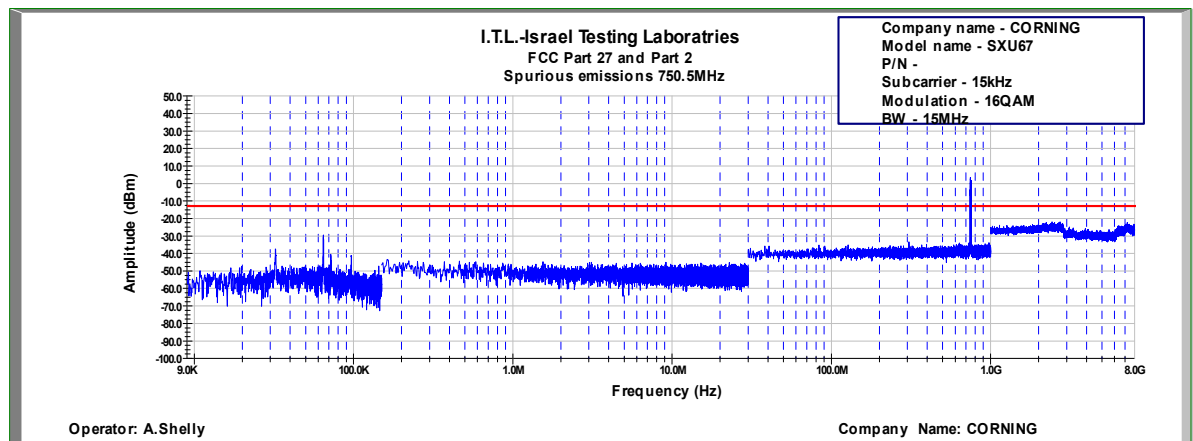
**Figure 635: Spurious Emissions at Antenna Terminal 16QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



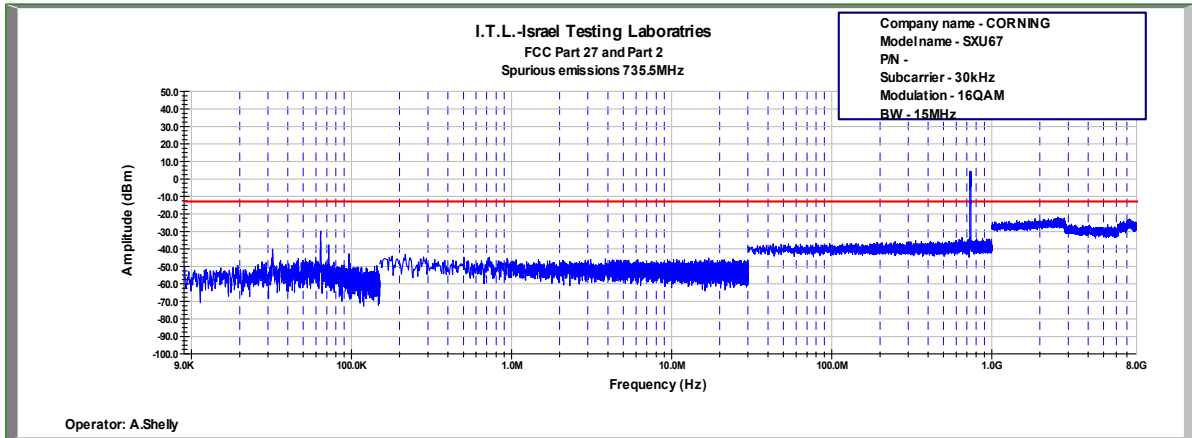
**Figure 636: Spurious Emissions at Antenna Terminal 16QAM, 735.5MHz, B.W. 15MHz, Sub Carrier 15kHz**



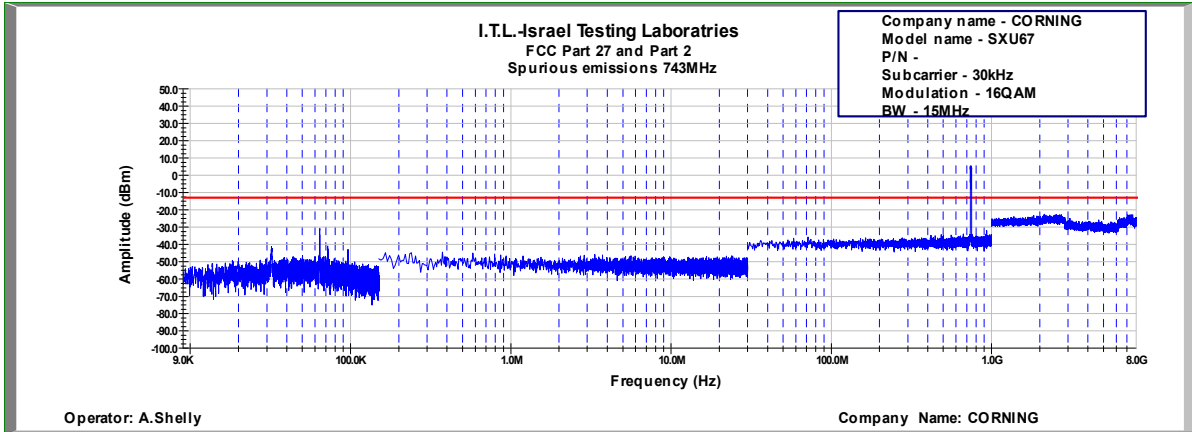
**Figure 637: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 15kHz**



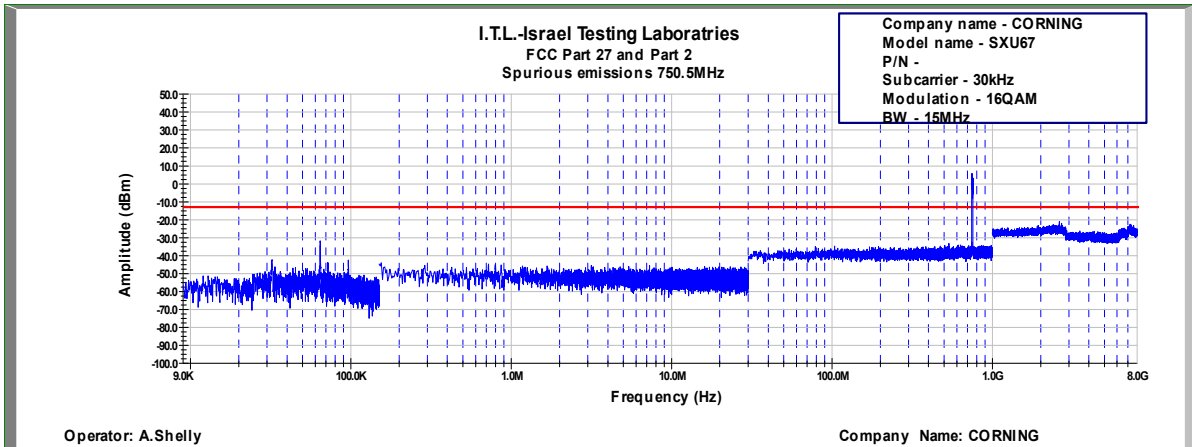
**Figure 638: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 15kHz**



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

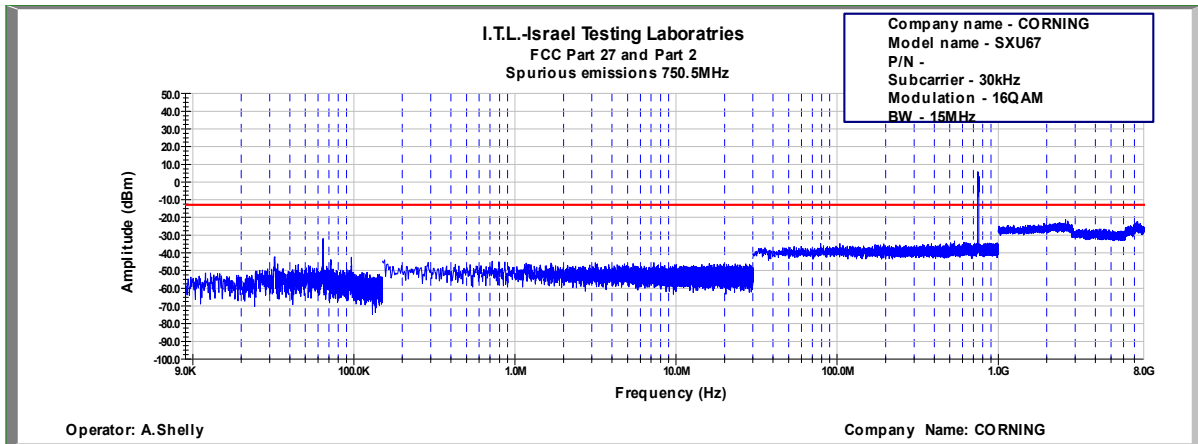


**Figure 640: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 30kHz**

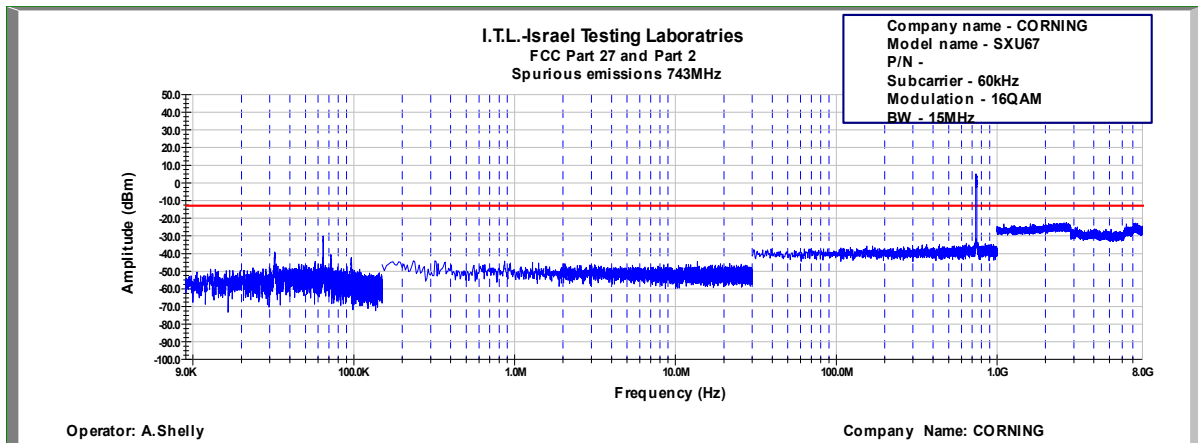


**Figure 641: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 30kHz**

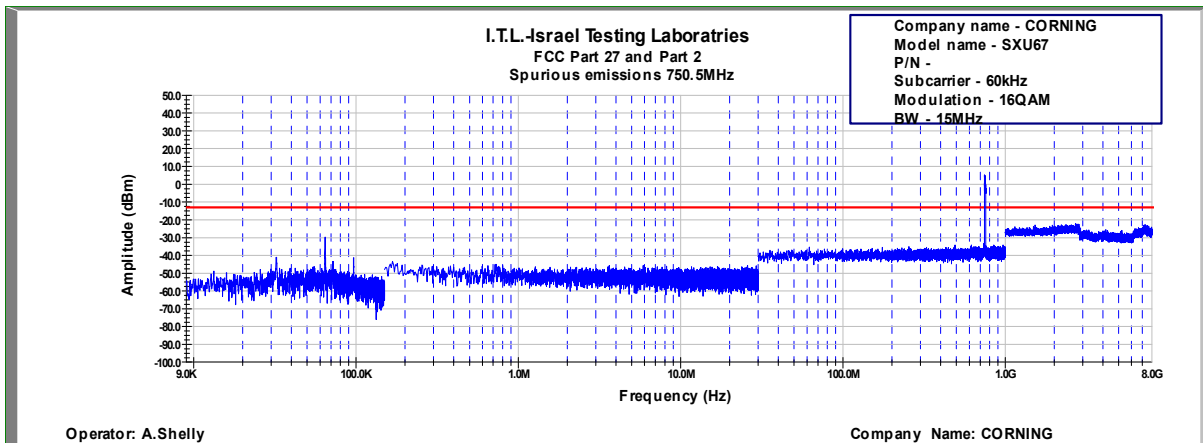




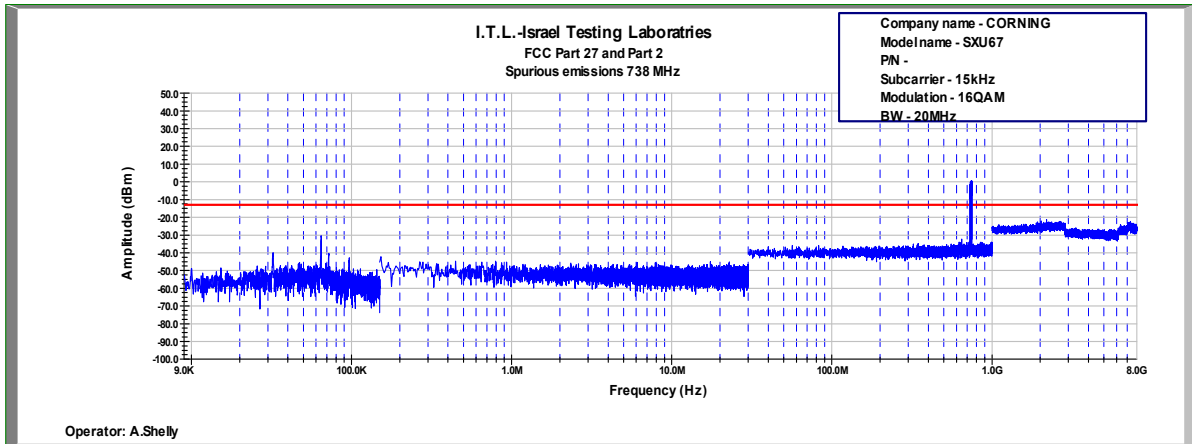
**Figure 642: Spurious Emissions at Antenna Terminal 16QAM, 735.5MHz, B.W. 15MHz, Sub Carrier 60kHz**



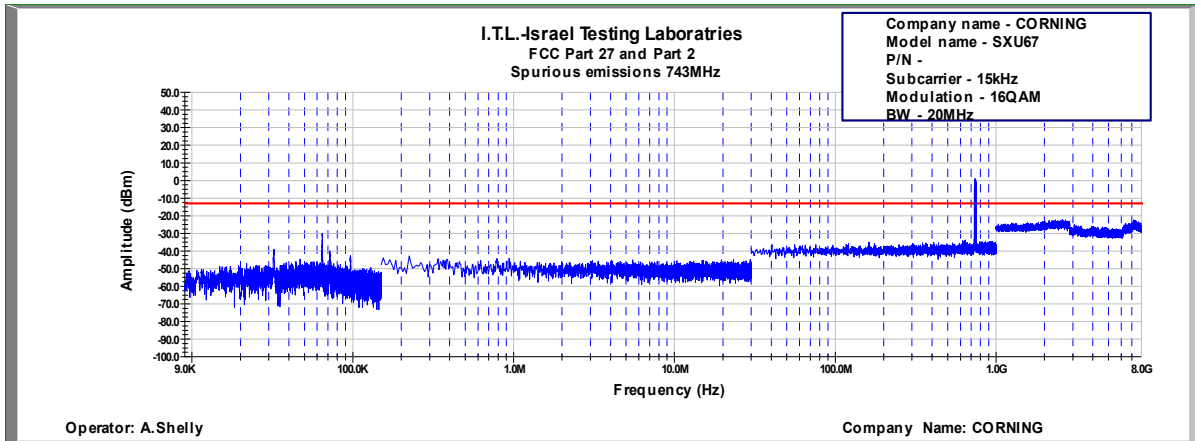
**Figure 643: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 60kHz**



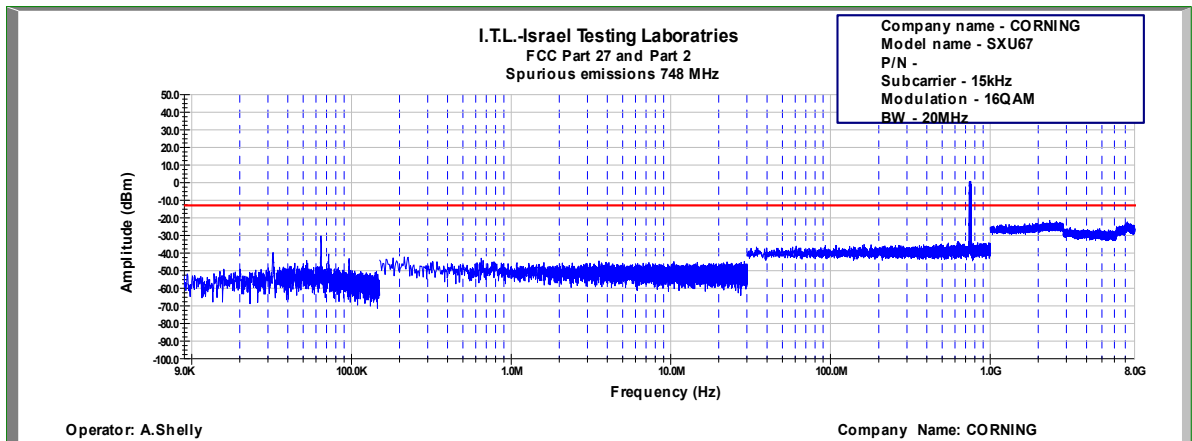
**Figure 644: Spurious Emissions at Antenna Terminal 16QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 60kHz**



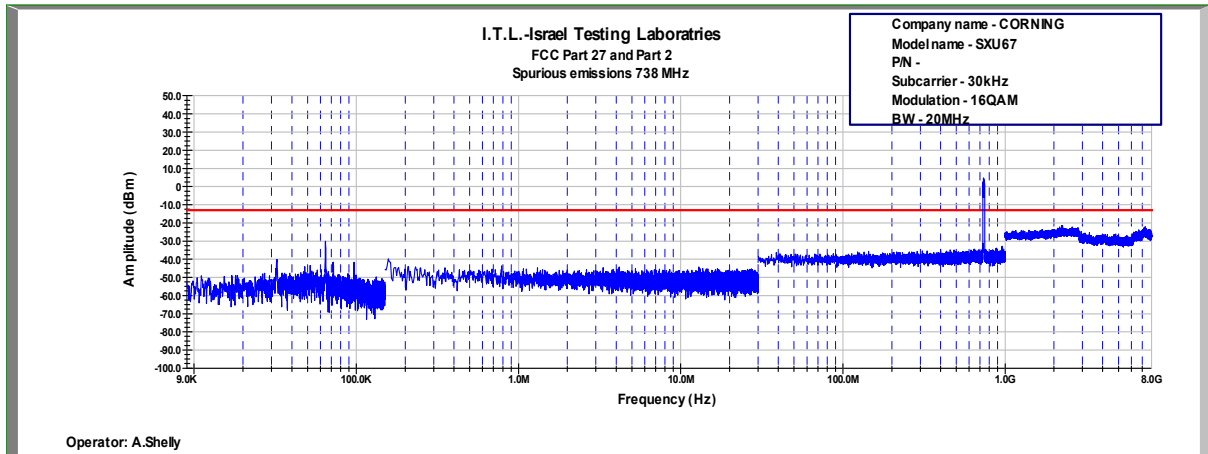
**Figure 645: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



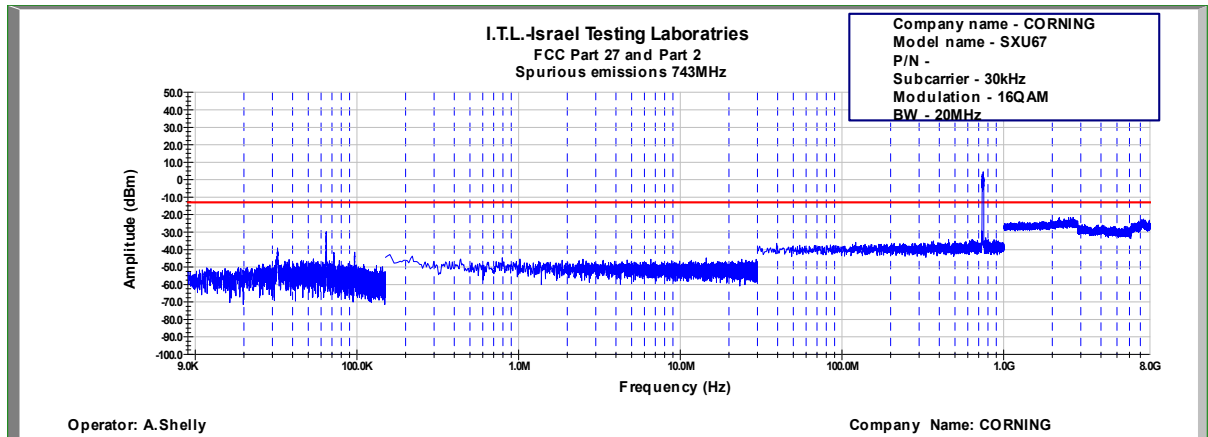
**Figure 646: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



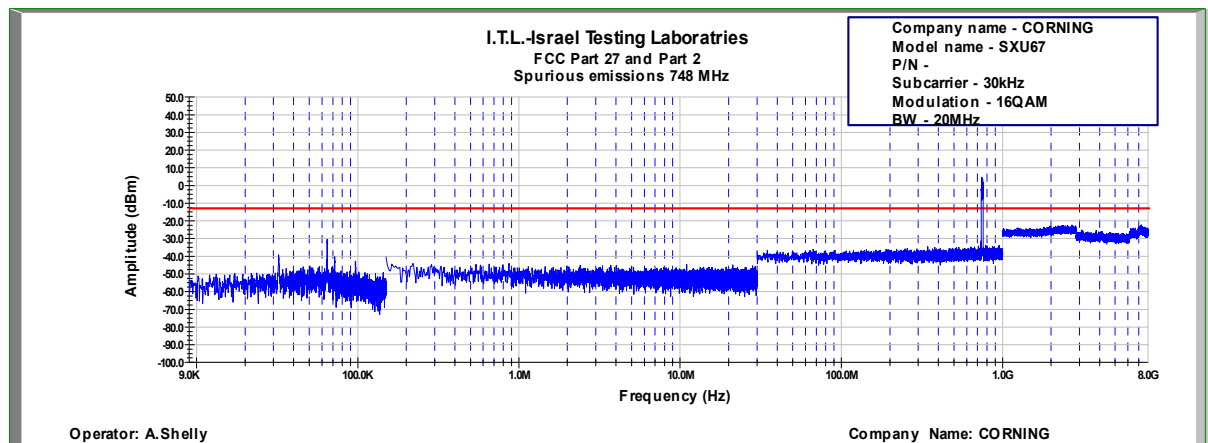
**Figure 647: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



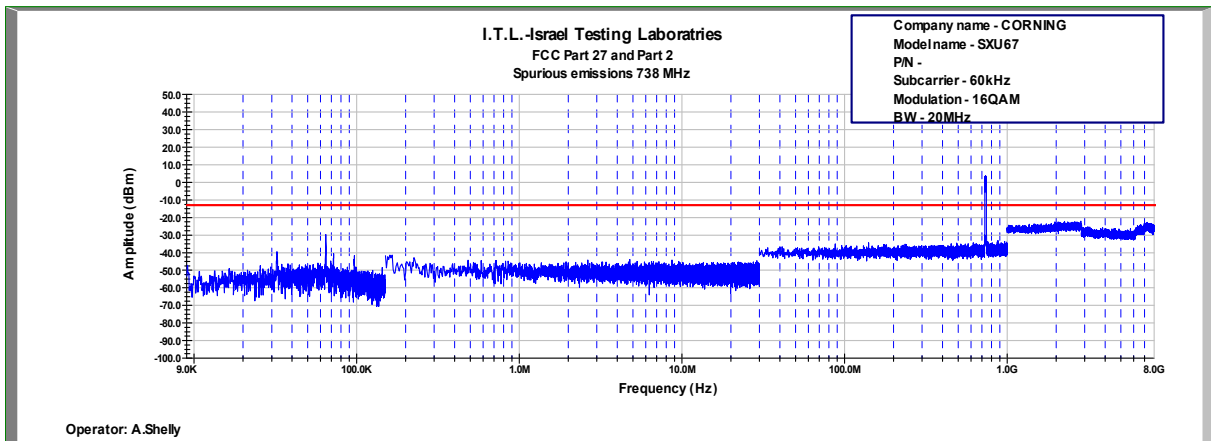
**Figure 648: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



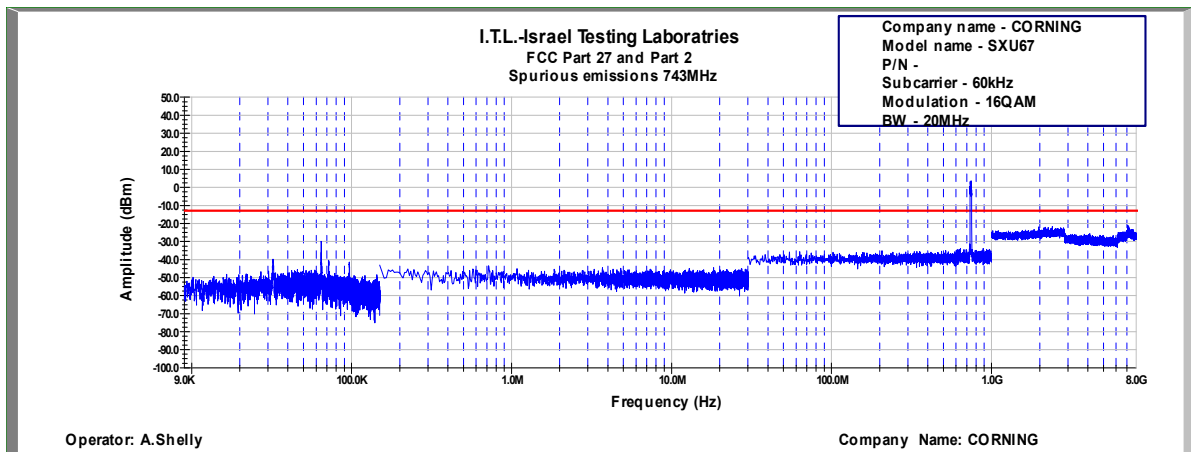
**Figure 649: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



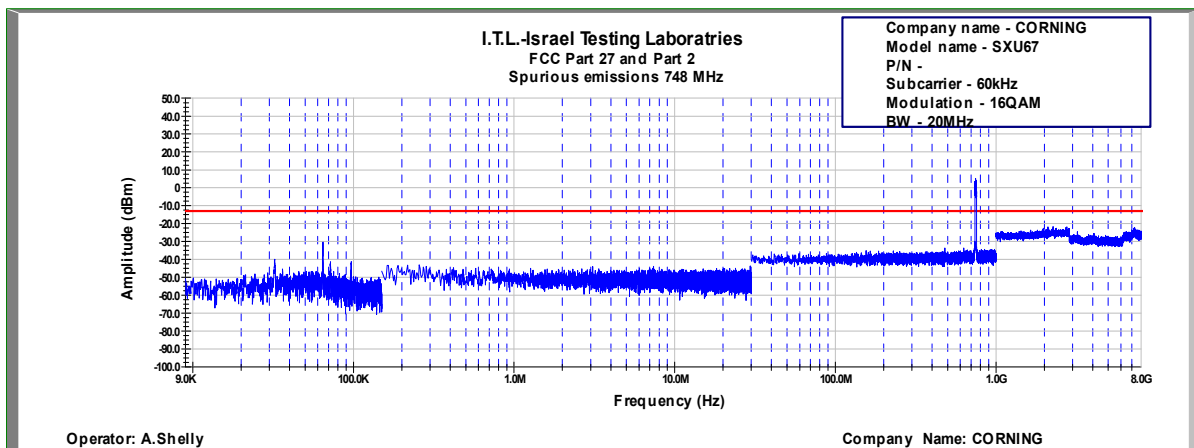
**Figure 650: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



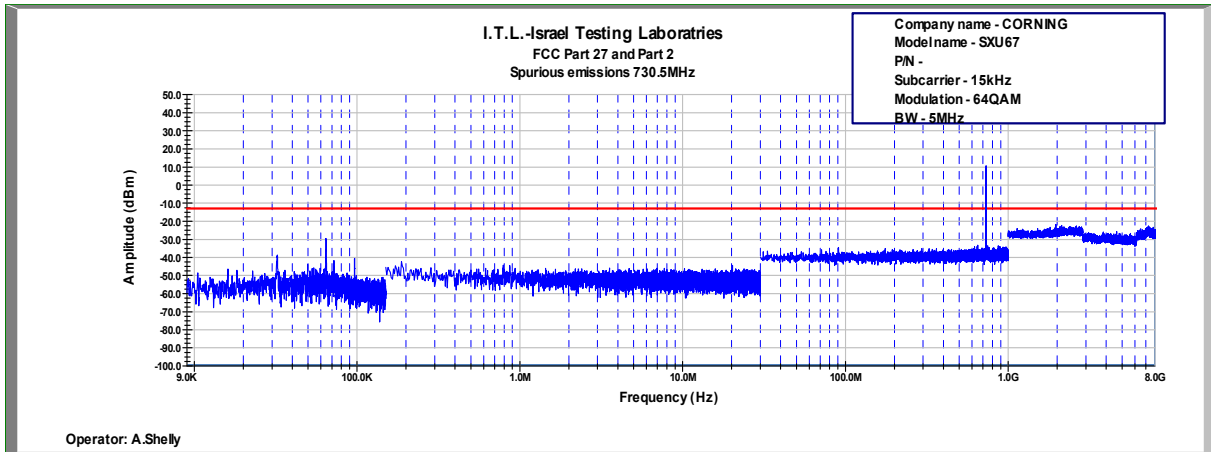
**Figure 651: Spurious Emissions at Antenna Terminal 16QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 60kHz**



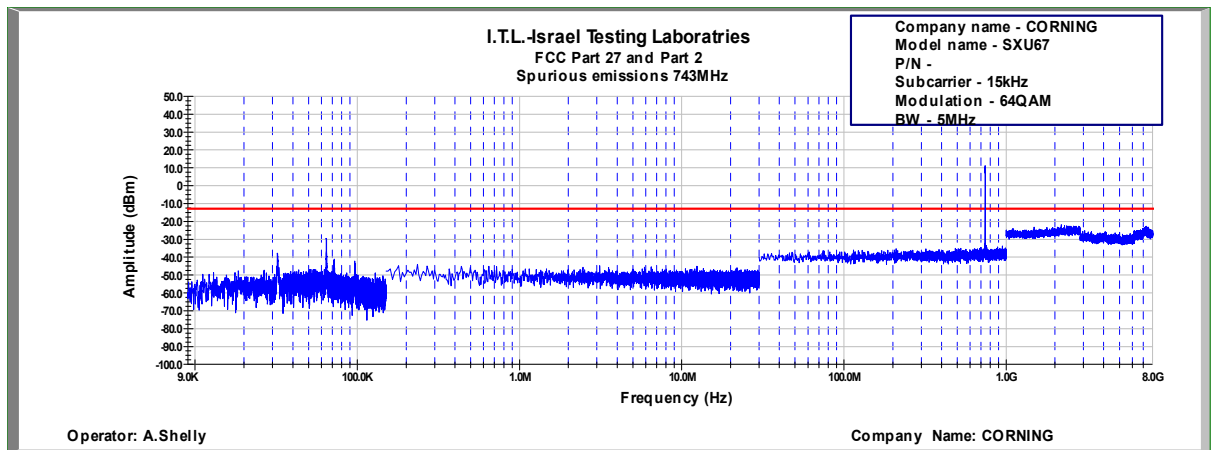
**Figure 652: Spurious Emissions at Antenna Terminal 16QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 60kHz**



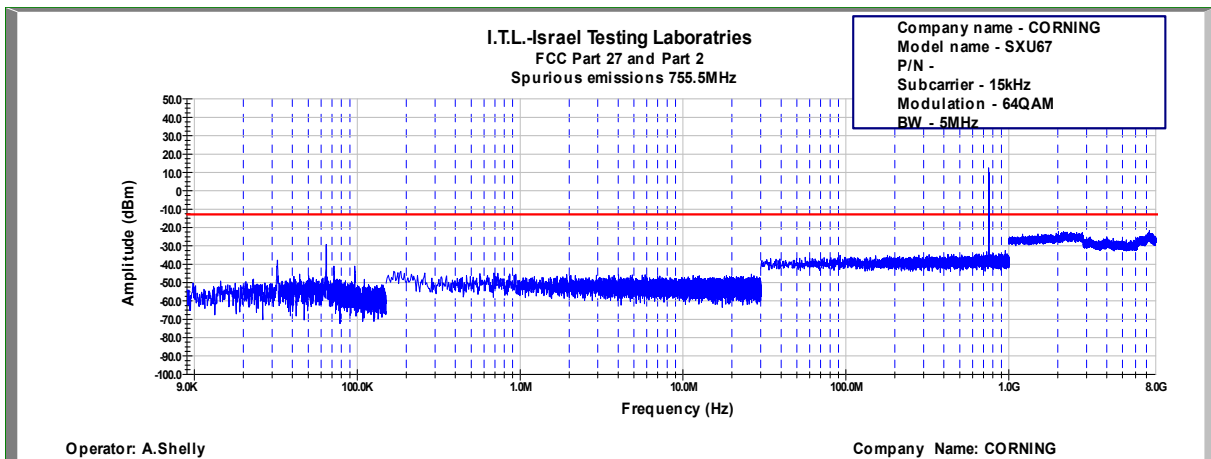
**Figure 653: Spurious Emissions at Antenna Terminal 16QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 60kHz**



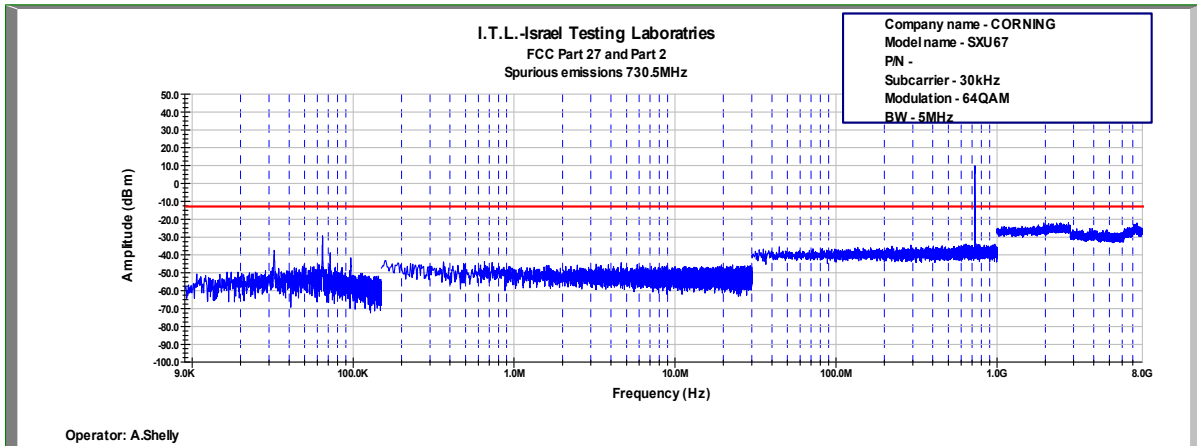
**Figure 654: Spurious Emissions at Antenna Terminal 64QAM, 730.5MHz, B.W. 5MHz, Sub Carrier 15kHz**



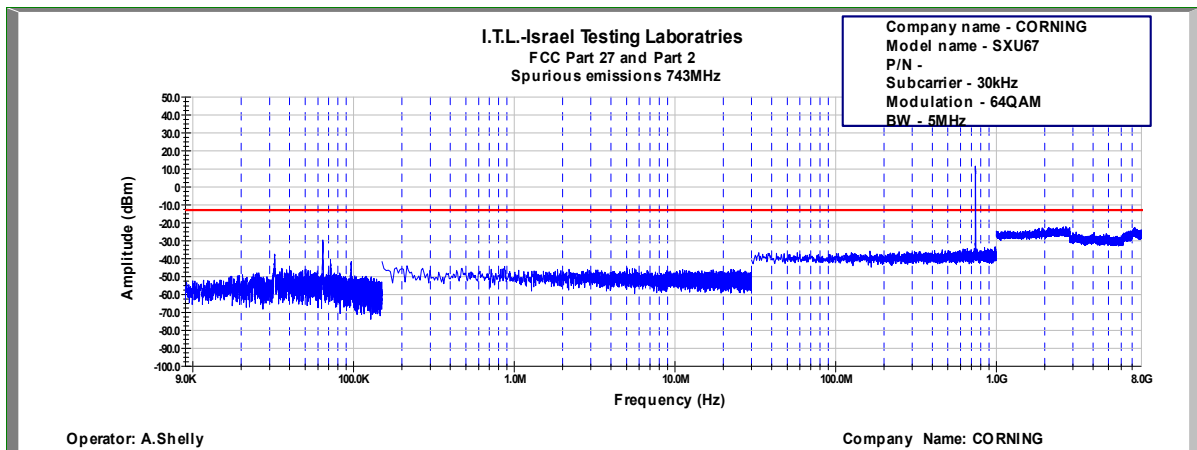
**Figure 655: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 5MHz, Sub Carrier 15kHz**



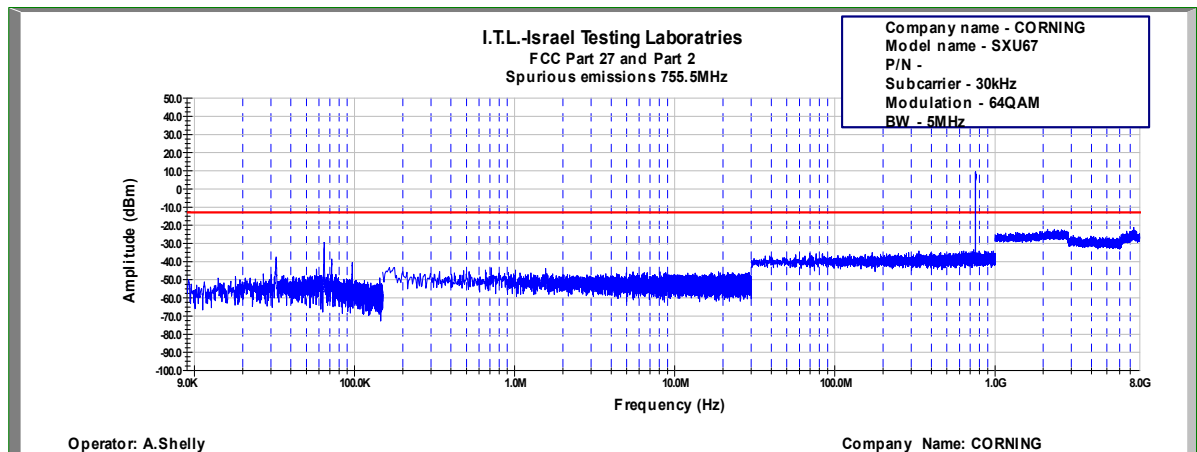
**Figure 656: Spurious Emissions at Antenna Terminal 64QAM, 755.5MHz, B.W. 5MHz, Sub Carrier 15kHz**



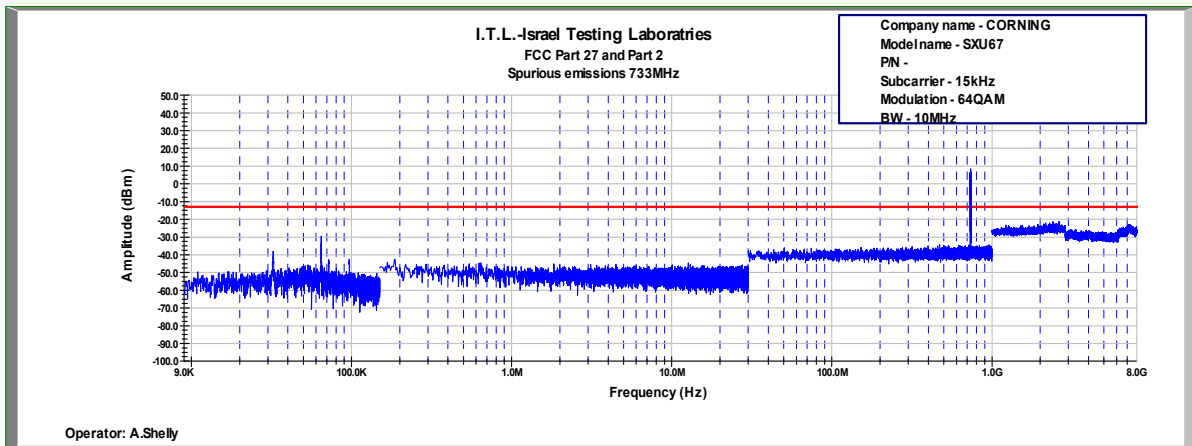
**Figure 657: Spurious Emissions at Antenna Terminal 64QAM, 730.5MHz, B.W. 5MHz, Sub Carrier 30kHz**



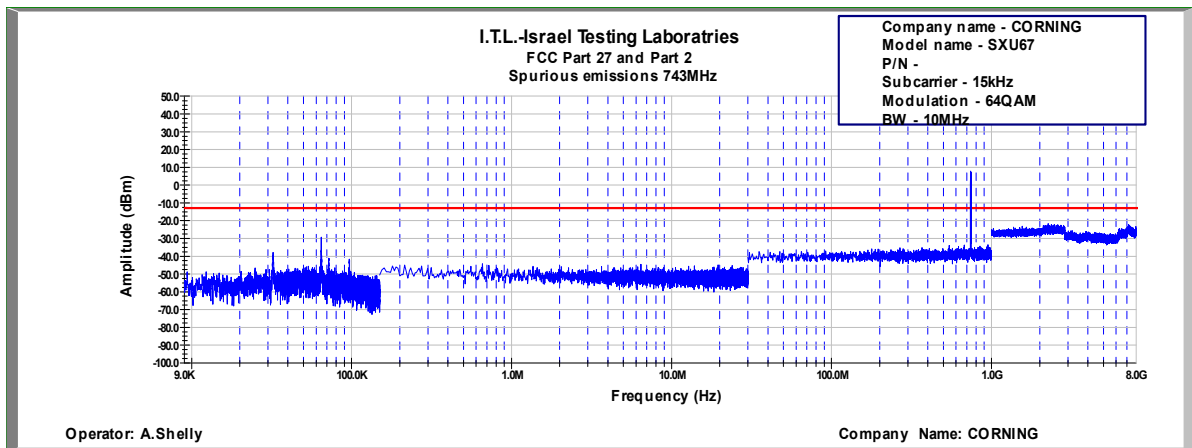
**Figure 658: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 5MHz, Sub Carrier 30kHz**



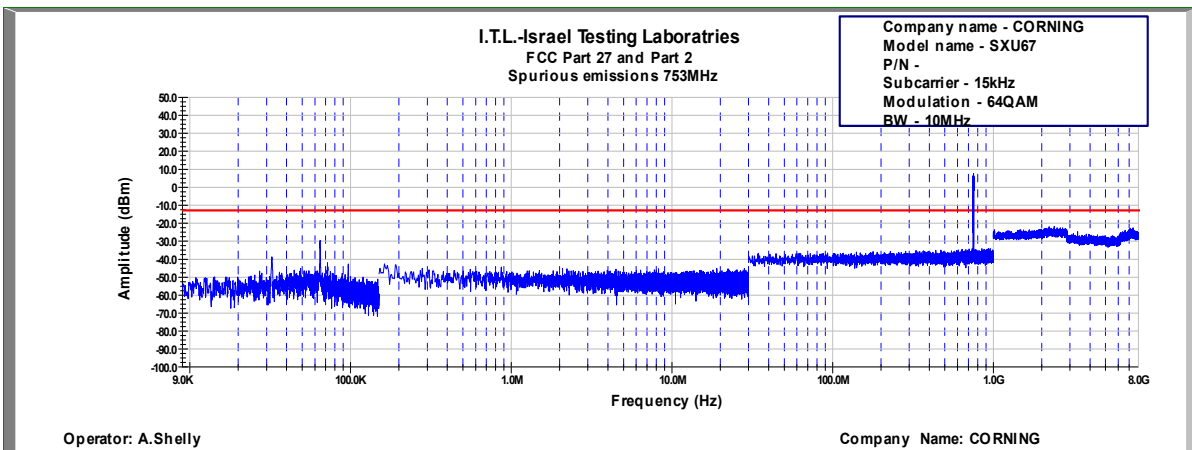
**Figure 659: Spurious Emissions at Antenna Terminal 64QAM, 755.5MHz, B.W. 5MHz, Sub Carrier 30kHz**



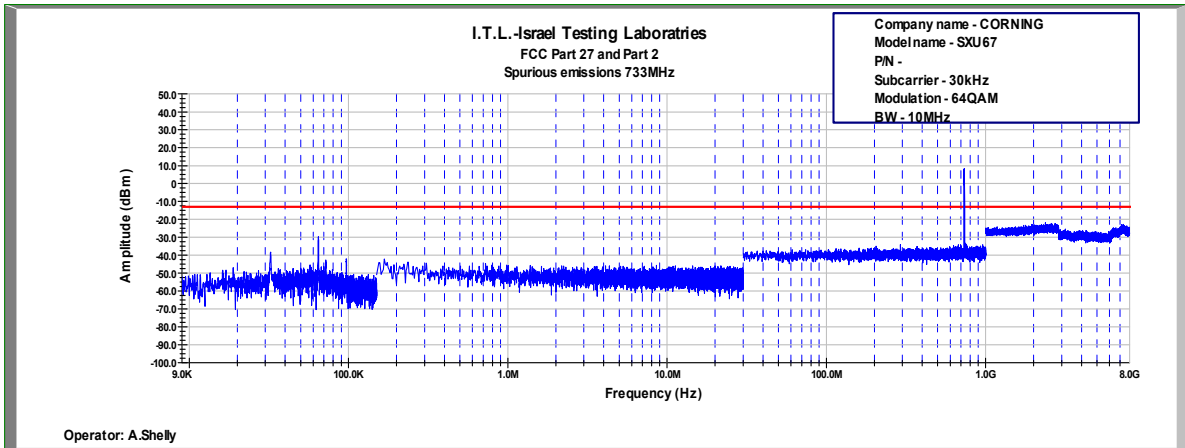
**Figure 660: Spurious Emissions at Antenna Terminal 64QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



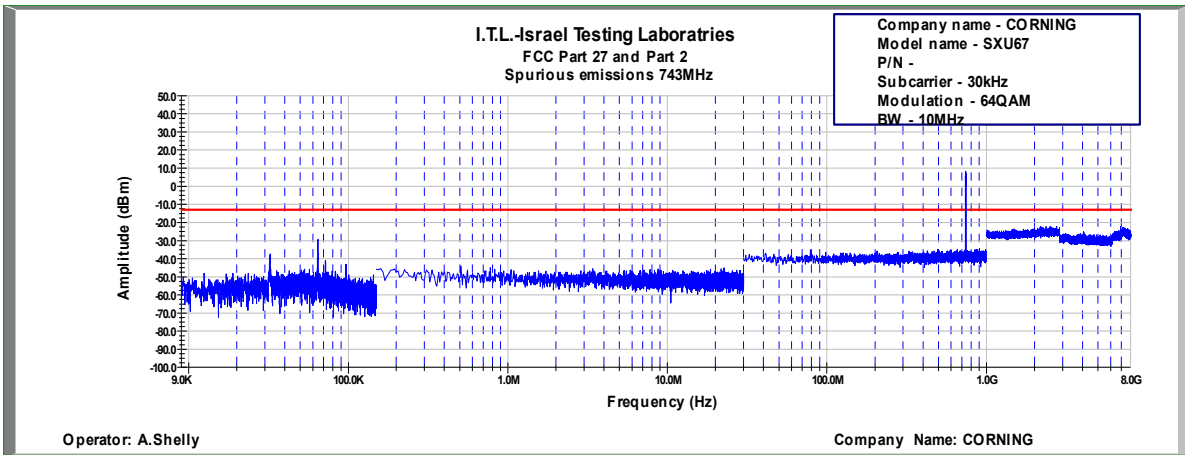
**Figure 661: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



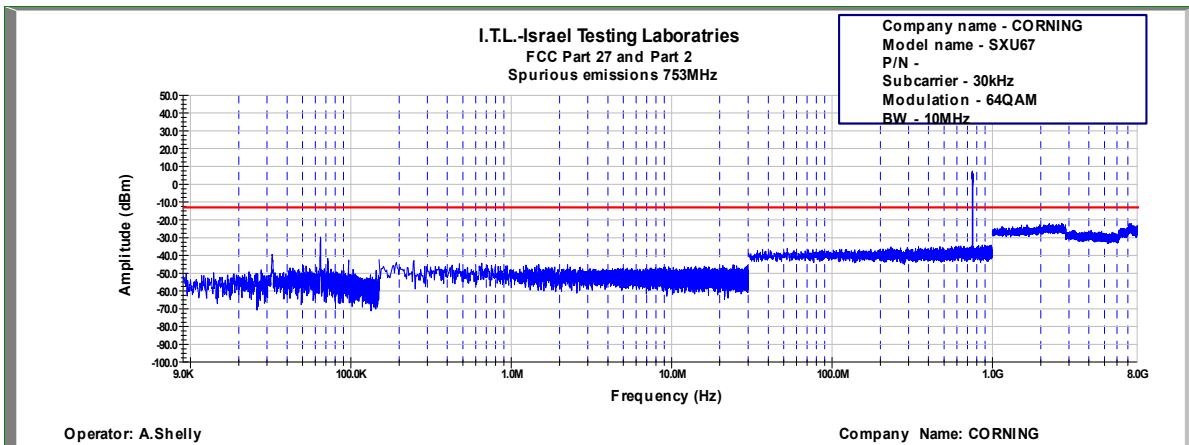
**Figure 662: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 15kHz**



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

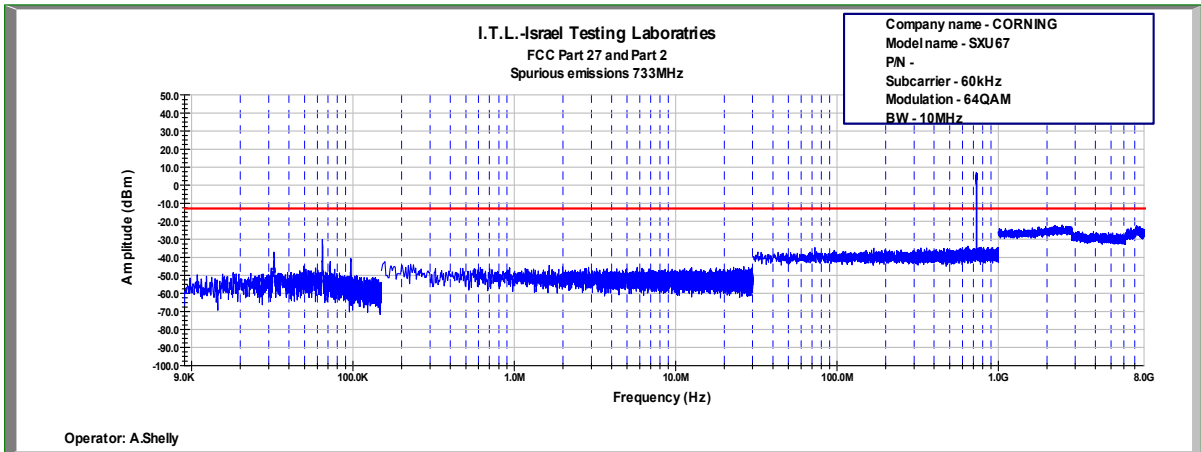


**Figure 664: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 30kHz**

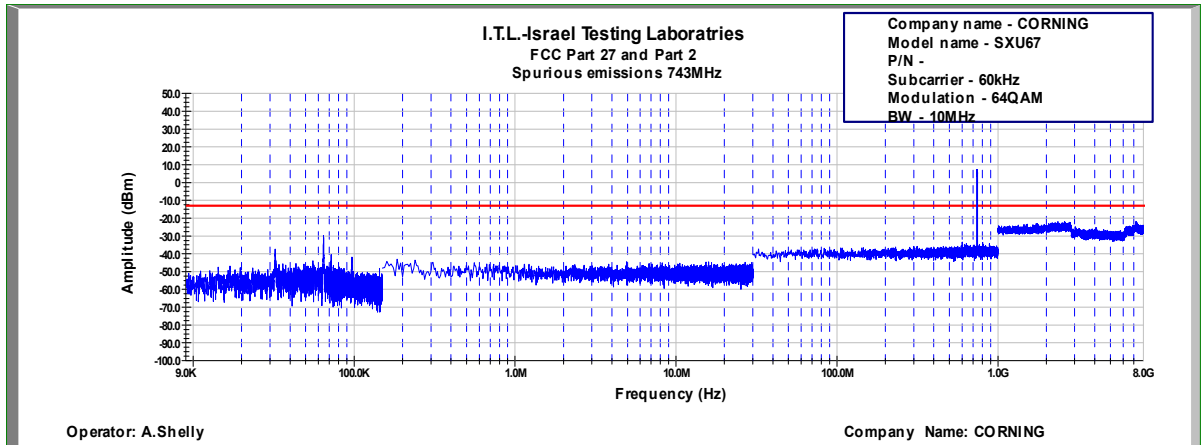


**Figure 665: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 30kHz**

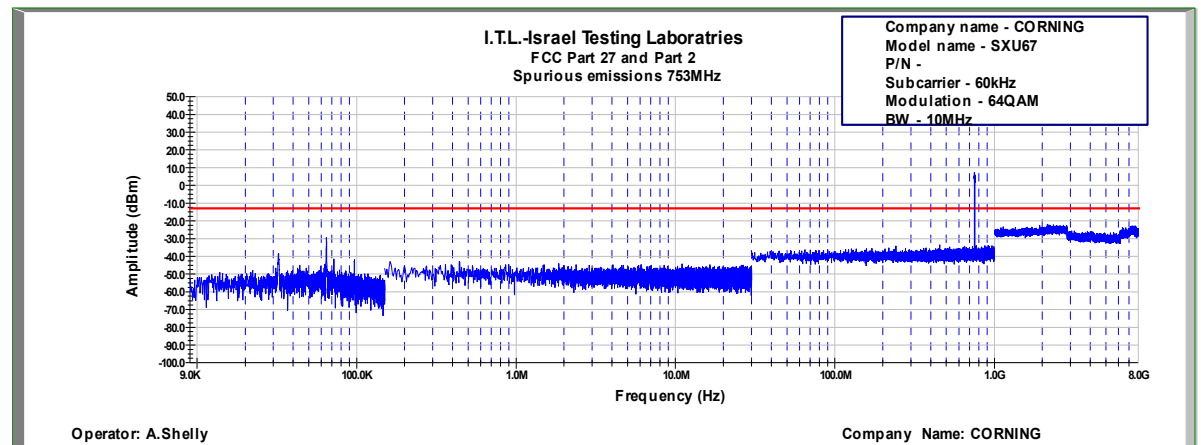




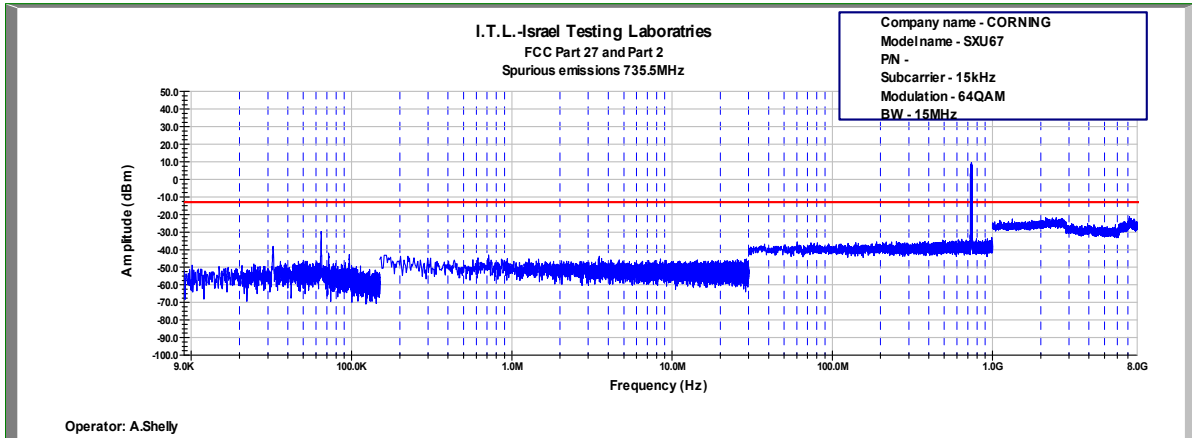
**Figure 666: Spurious Emissions at Antenna Terminal 64QAM, 733.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



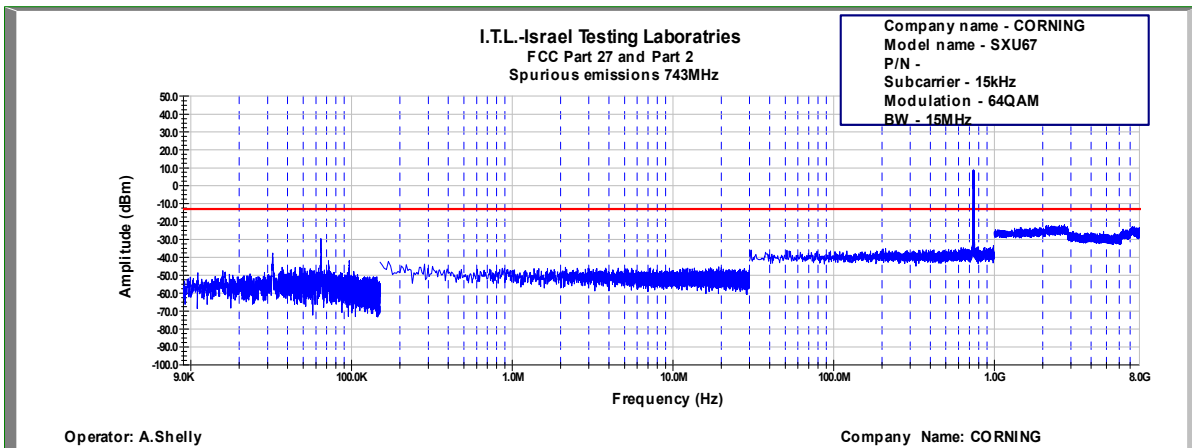
**Figure 667: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



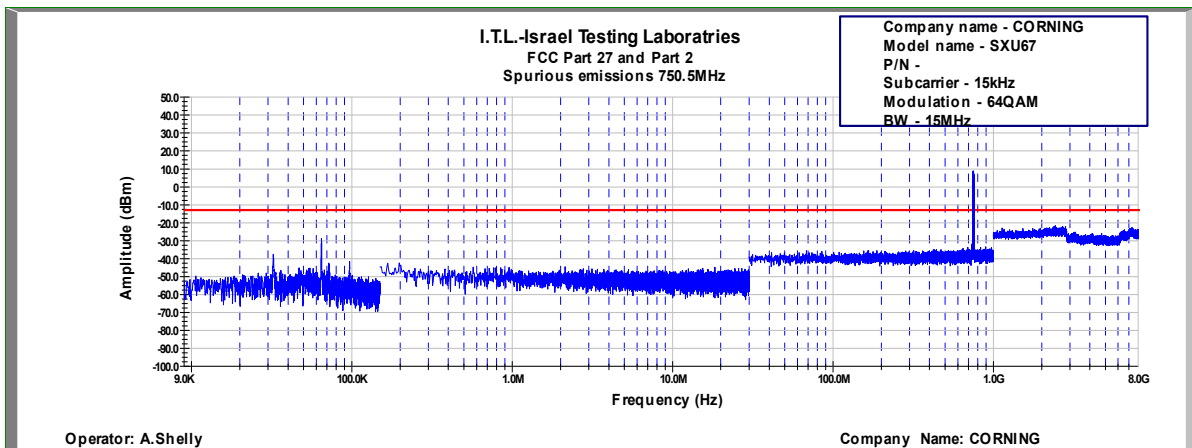
**Figure 668: Spurious Emissions at Antenna Terminal 64QAM, 753.0MHz, B.W. 10MHz, Sub Carrier 60kHz**



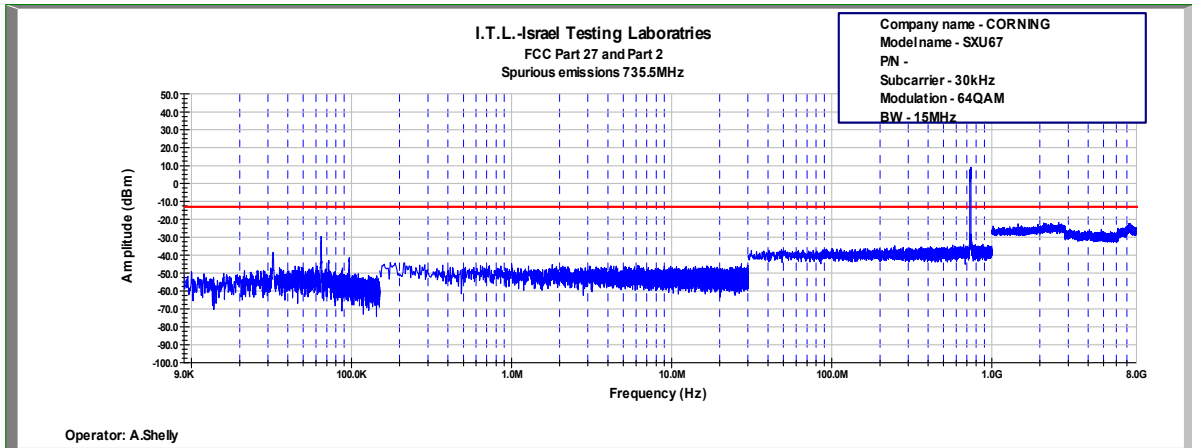
**Figure 669: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz, B.W. 15MHz, Sub Carrier 15kHz**



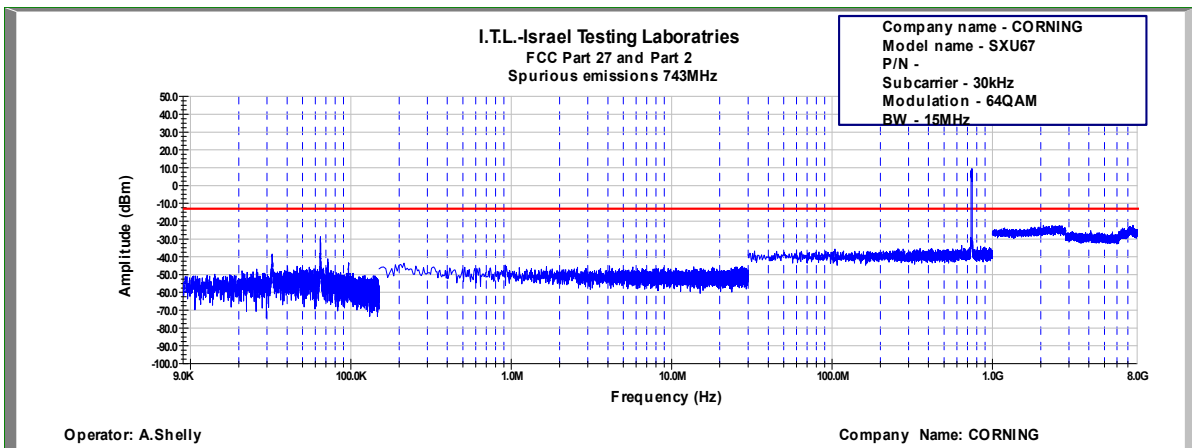
**Figure 670: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 15kHz**



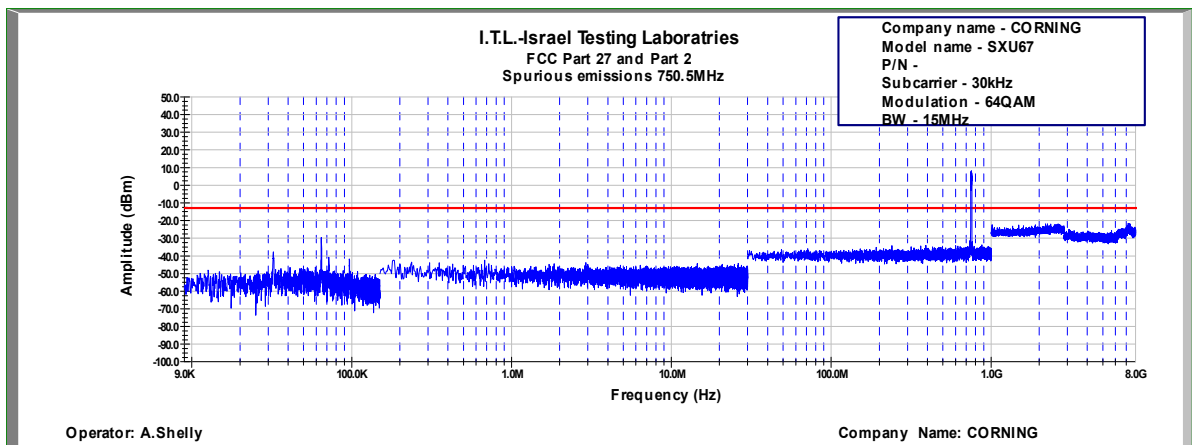
**Figure 671: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 15kHz**



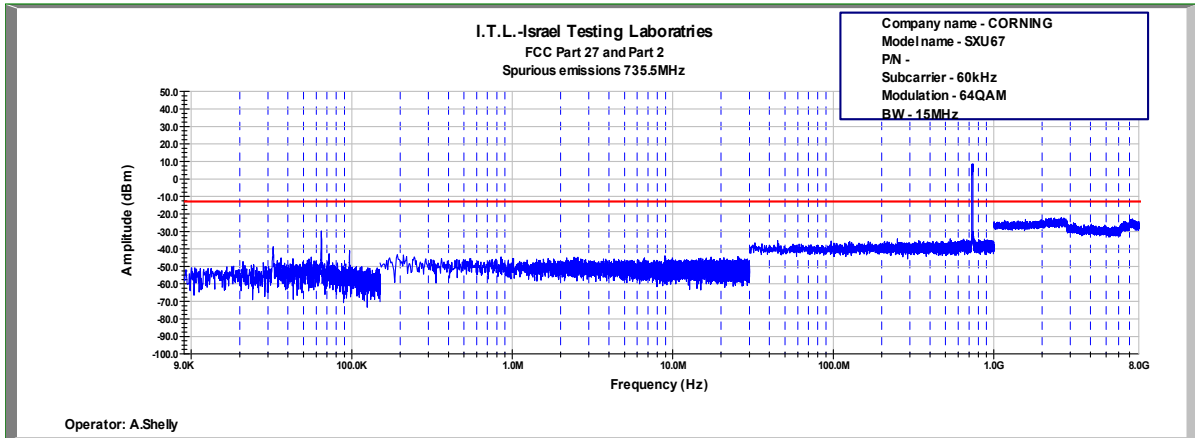
**Figure 672: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz, B.W. 15MHz, Sub Carrier 30kHz**



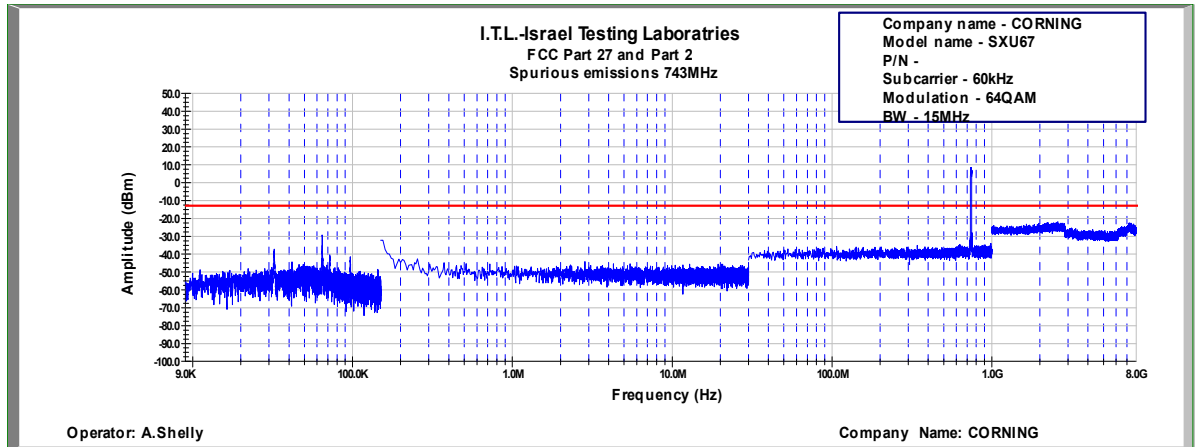
**Figure 673: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 30kHz**



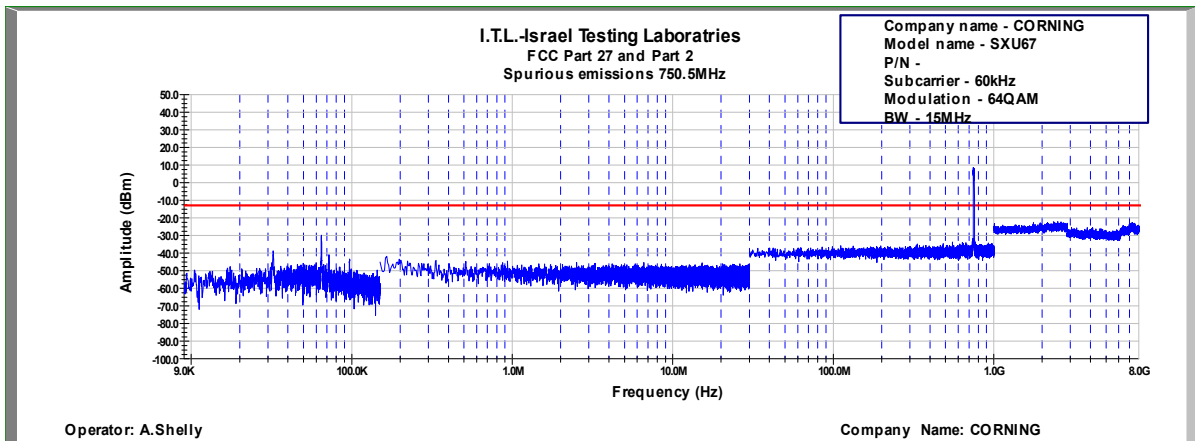
**Figure 674: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 30kHz**



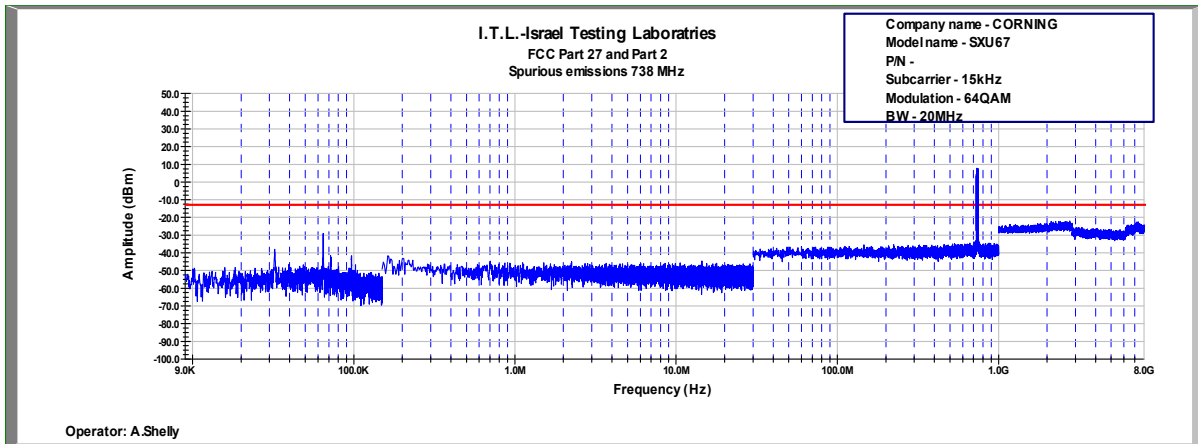
**Figure 675: Spurious Emissions at Antenna Terminal 64QAM, 735.5MHz, B.W. 15MHz, Sub Carrier 60kHz**



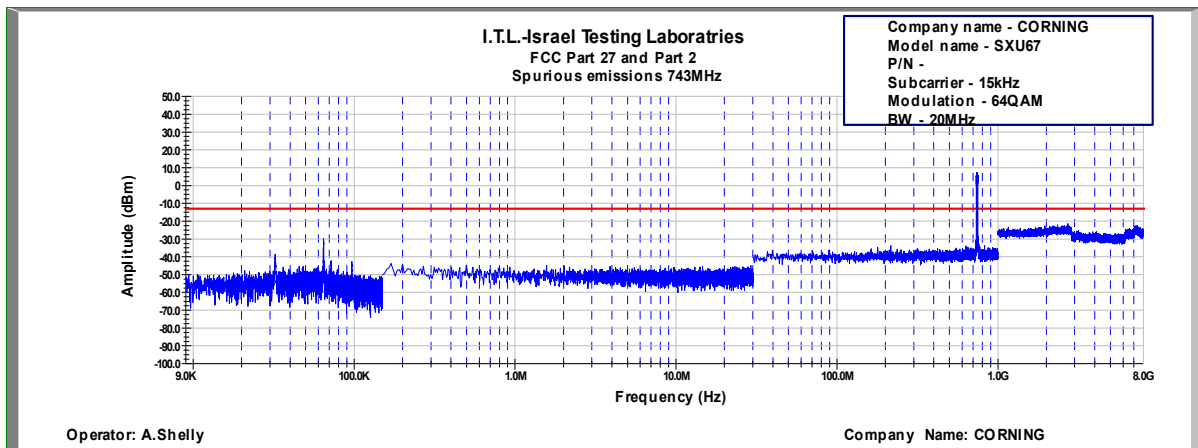
**Figure 676: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 15MHz, Sub Carrier 60kHz**



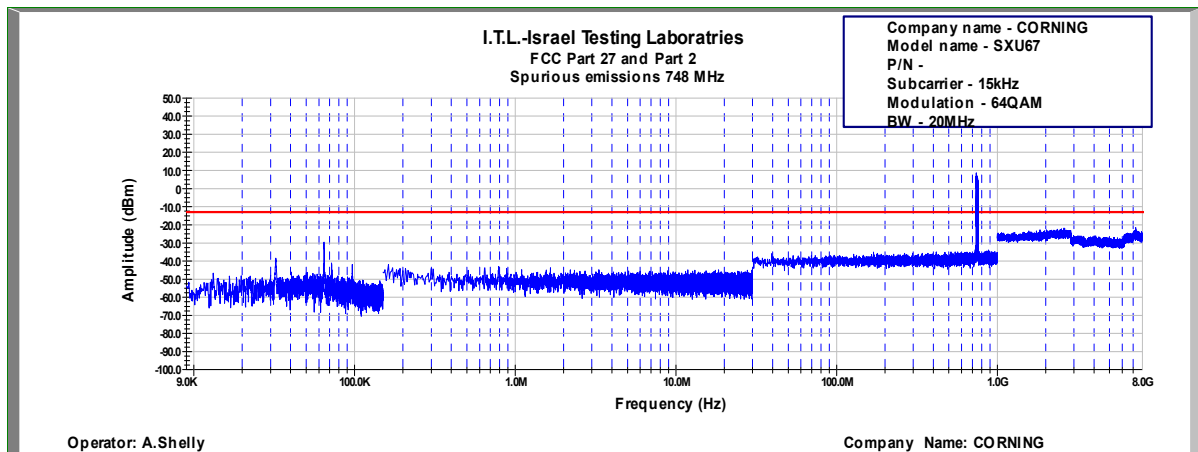
**Figure 677: Spurious Emissions at Antenna Terminal 64QAM, 750.5MHz, B.W. 15MHz, Sub Carrier 60kHz**



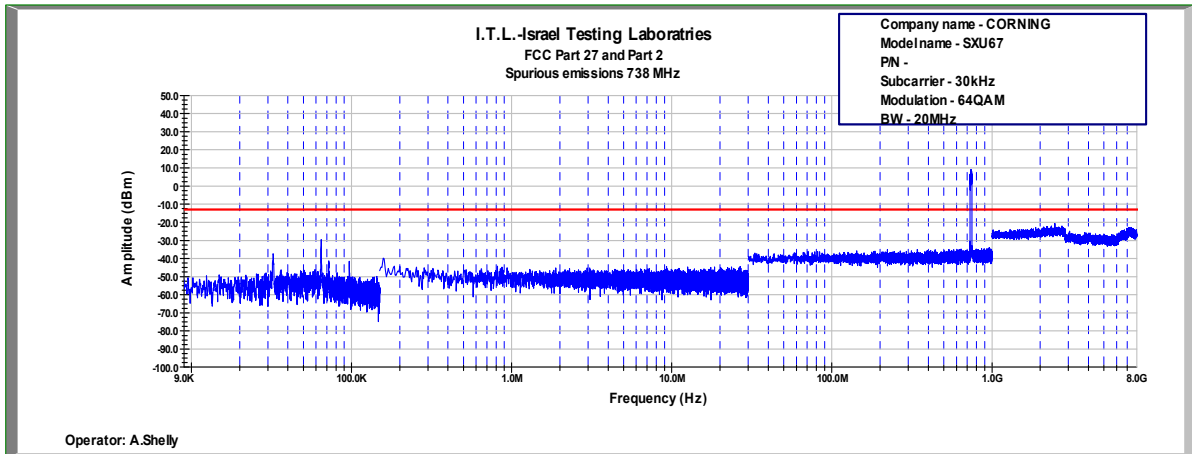
**Figure 678: Spurious Emissions at Antenna Terminal 64QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



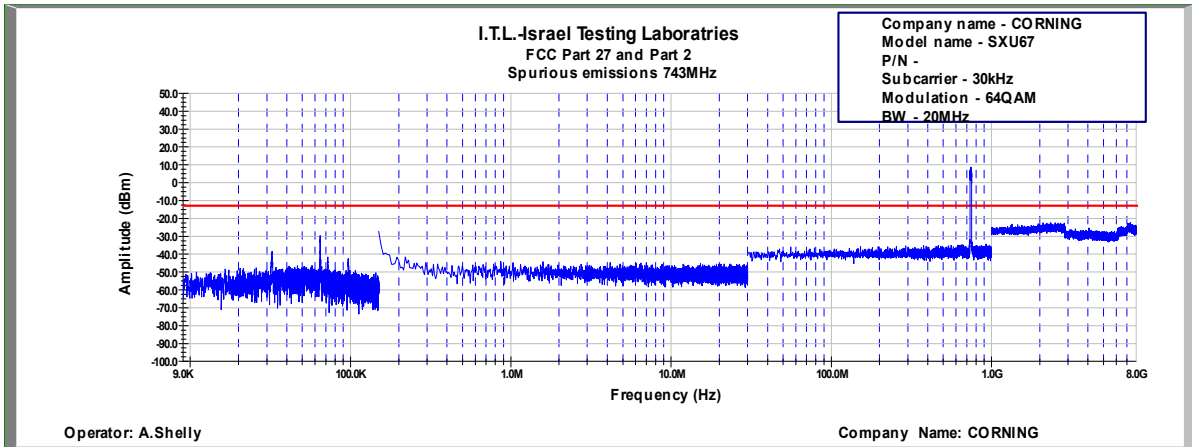
**Figure 679: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



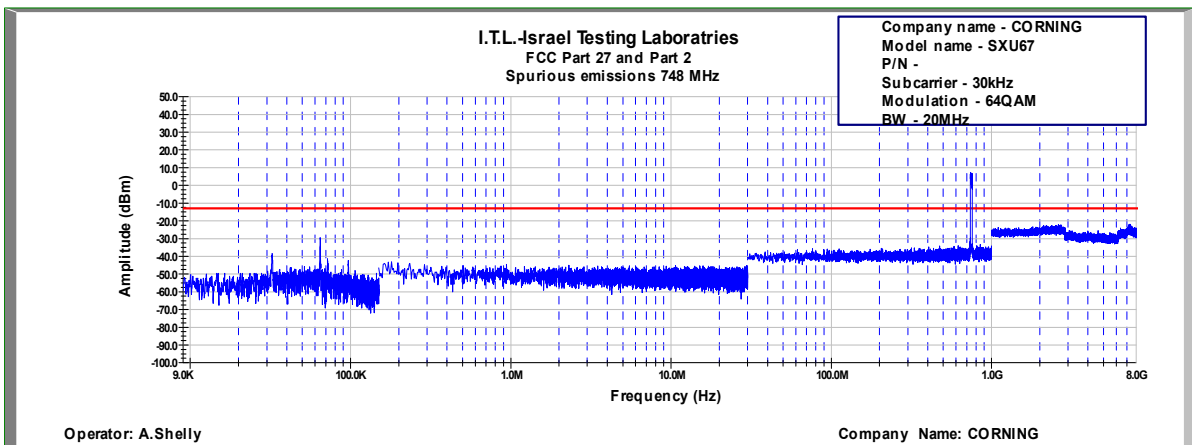
**Figure 680: Spurious Emissions at Antenna Terminal 64QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 15kHz**



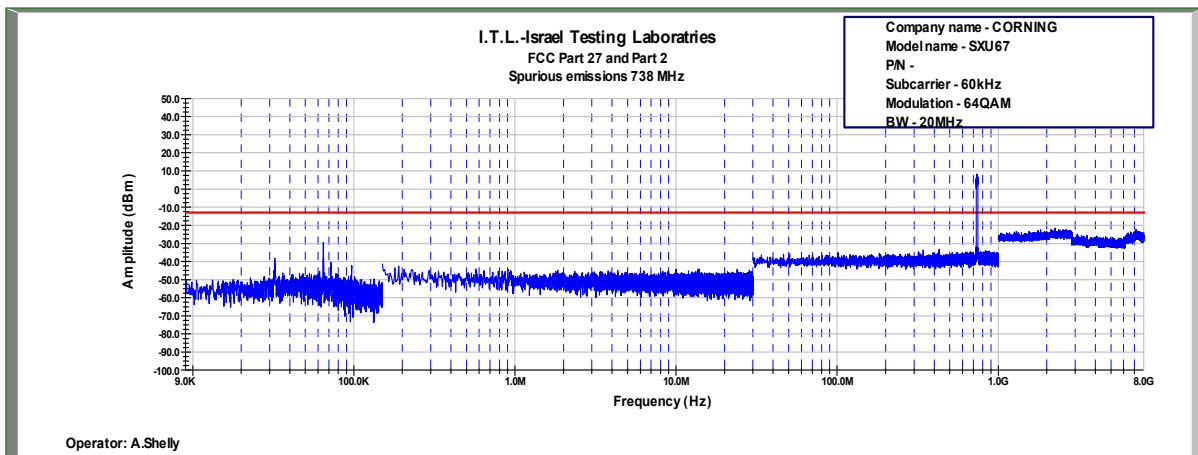
**Figure 681: Spurious Emissions at Antenna Terminal 64QAM, 738.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



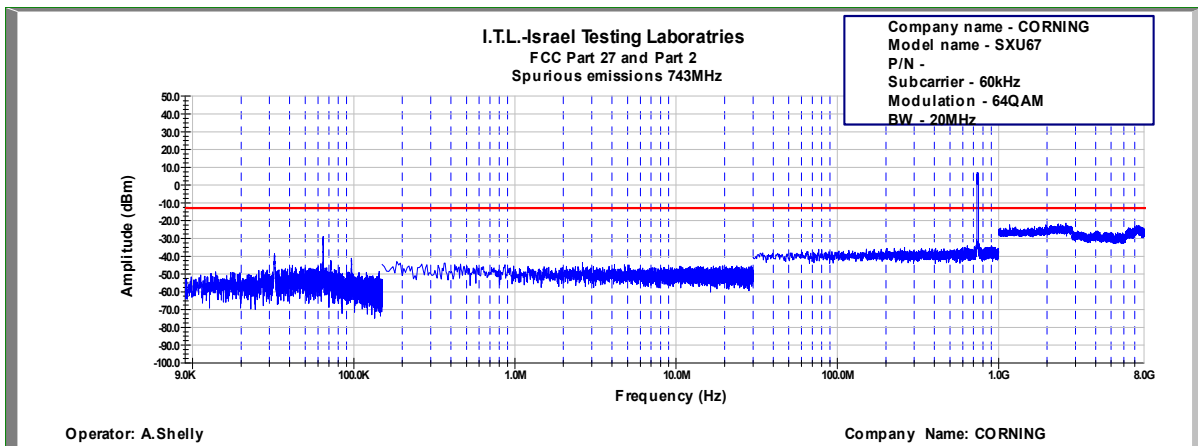
**Figure 682: Spurious Emissions at Antenna Terminal 64QAM, 743.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



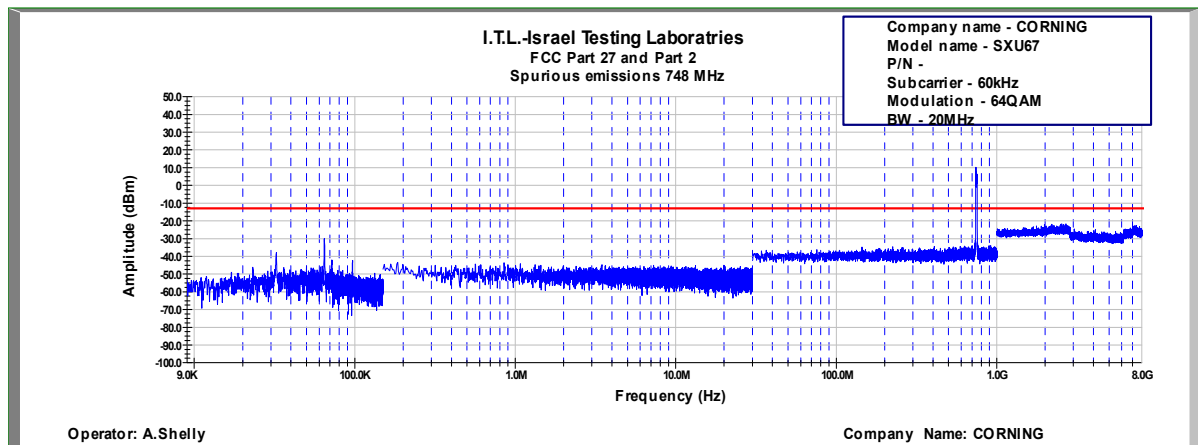
**Figure 683: Spurious Emissions at Antenna Terminal 64QAM, 748.0MHz, B.W. 20MHz, Sub Carrier 30kHz**



**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**